

FCC Test Report

Report No.: AGC02931180502FE10A

FCC ID : POD-MDUV380
PRODUCT DESIGNATION : DMR Digital Transceiver
BRAND NAME : TYT
MODEL NAME : MD-UV380G, MD-UV380
APPLICANT : TYT Electronics Co., Ltd.
DATE OF ISSUE : Jan. 15, 2021
STANDARD(S) : FCC Part 90 Rules
FCC Part 22 Rules
REPORT VERSION : V 1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jan. 15, 2021	Valid	Class II Permissive Change

Note: The original test report Ref. No. (AGC02931200704FE10) (dated 2018-10-15), was modified on 2021-01-15 to include the following changes and additions for:

-Add GPS module, change some resistance and capacitance.

The DMR Digital Transceiver shut down the channel of 25KHz.

Re-evaluate the radiated spurs of all powers of VHF and UHF

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1. GENERAL INFORMATION

Applicant	TYT Electronics Co., Ltd.
Address	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.
Manufacturer	TYT Electronics Co., Ltd.
Address	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.
Factory	TYT Electronics Co., Ltd.
Address	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China.
Product Designation	DMR Digital Transceiver
Brand Name	TYT
Test Model	MD-UV380G
Series Model(s)	MD-UV380
Difference Description	All the same except the model name.
Deviation from Standard	None
Date of Receipt	Oct.10, 2020
Date of Test	Nov. 27, 2020~Jan. 14, 2021
Test Result	Pass

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI/TIA-603-E-2016. The sample tested as described in this report is in compliance with the FCC Rules Part 22 and 90. The test results of this report relate only to the tested sample identified in this report.

Prepared By


 Donjon Huang
 (Project Engineer)


Jan. 14, 2021

Reviewed By


 Calvin Liu
 (Reviewer)

Jan. 15, 2021

Approved By


 Forrest Lei
 Authorized Officer

Jan. 15, 2021

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2.PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

Hardware Version	UV-V2.1-171109	
Software Version	V1.06	
Power Supply	DC 7.4V by battery 2000mAh	
Adapter Information	Input:100-240V, 50/60Hz, 0.6A Output: DC 12V 500mAh	
Communication Type	Voice / Data	
Operation Frequency Range	From 136MHz to 174MHz--VHF From 400MHz to 480MHz--UHF	
Modulation Type	Analog Voice:	FM
	Digital Voice/Digital Data:	4FSK
Digital Type	DMR	
Channel Separation	Analog Voice:	12.5 KHz
	Digital Voice/Digital Data:	12.5 KHz
Support Data Rate	9600bps	
Rated Output Power	UHF/VHF:1W/5W (It was fixed by the manufacturer, any individual can't arbitrarily change it.)	
Antenna Designation	Detachable Antenna	
Antenna Gain	1.5dBi	

Note:

1. The product has the same digital working characters when operating in both two digitized voice/data mode. So only one set of test results for digital modulation modes are provided in this test report.
2. This equipment is capable of supporting a minimum data rate of 4800 bits per second per 6.25 kHz of channel bandwidth. DMR interphone's bandwidth is 12.5 kHz, and it has a double time slot, one is the speech time slot, one is the data time slot, just language sequence is satisfied with 4800 bps/6.25 kHz BW.

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2.2 TEST FREQUENCY LIST

Operation mode	Channel Separation	Operation Frequency Range	Test channel	Test Frequency
Analog/ Digital	12.5 KHz	400-470MHz	Bottom	406.125 MHz
	12.5 KHz	400-470MHz	Middle	453.2125 MHz
	12.5 KHz	400-470MHz	Middle	454.025 MHz
	12.5 KHz	400-470MHz	Middle	458.2125 MHz
	12.5 KHz	400-470MHz	Top	479.975 MHz
Analog/ Digital	12.5 KHz	136-174MHz	Bottom	136.025 MHz
	12.5 KHz	136-174MHz	Middle	151.850 MHz
	12.5 KHz	136-174MHz	Middle	155.025 MHz
	12.5 KHz	136-174MHz	Middle	161.610 MHz
	12.5 KHz	136-174MHz	Top	173.975 MHz

Note:

In section KDB 634817 D01 Sections II) (f) (1) and (2):

Test at least one frequency in each band for each rule part applied under and ensure the device is capable of operating on the frequency under each rule part. This requirement may result in testing on multiple frequencies. Testing on one frequency may be acceptable if multiple listed bands for a rule part with a continuous frequency range are split to remove a conflict with other rules and the technical requirements in the split bands are the same. Additional requirements for RF exposure may apply.

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2.3 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: **POD-MDUV380**, filing to comply with Part 2, Part 22, and Part 90 of the Federal Communication Commission rules.

2.4 TEST METHODOLOGY

The tests were performed according to following standards:

No.	Identity	Document Title
1	FCC 47 CFR Part 22	Public Mobile Services
2	FCC 47 CFR Part 90	Private Land Mobile Radio Services
3	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
4	ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
5	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03r01
6	KDB 579009 D03	KDB 579009 D03 Applications Part 90 Refarming Bands v01
7	KDB 634817 D01	KDB 634817 D01 Freq Range Listing for Grants v04r01

2.5 CALCULATION OF EMISSION INDICATORS

FCC Rules and Regulations Part 2.202: Necessary Bandwidth and Emission Bandwidth

For FM Mode (ChannelSpacing: 12.5kHz)

Emission Designator 11K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = 11K0$$

F3E portion of the designator represents an FM voice transmission.

Therefore, the entire designator for 12.5 kHz channel spacing FM mode is 11K0F3E.

For FM Mode (Channel Spacing: 25kHz)

Emission Designator 16K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 5.0 kHz deviation.

$$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 5.0 \text{ kHz}) = 16 \text{ kHz} = 16K0$$

F3E portion of the designator represents an FM voice transmission.

Therefore, the entire designator for 25 kHz channel spacing FM mode is 16K0F3E.

For Digital Mode (Channel Spacing: 12.5 kHz)

Emission Designator 7K60F1D and 7K60F1W

The 99% energy rule was used for digital mode. It basically states that 99% of the modulation energy falls within X kHz, in this case, 7.60 kHz.

F1D and F1W portion of the designator indicates digital information.

Therefore, the entire designator for 12.5 kHz channel spacing digital mode is 7K60F1D and 7K60F1W.

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2.6 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

2.7 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. TEST ENVIRONMENT

3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

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3.3 ENVIRONMENTAL CONDITIONS

	NORMAL CONDITIONS	EXTREME CONDITIONS
Temperature range (°C)	15 - 35	-20 - 50
Relative humidity range	20 % - 75 %	20 % - 75 %
Pressure range (kPa)	86 - 106	86 - 106
Power supply	--	--
Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.		

3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Test Items	Measurement Uncertainty
Frequency stability	$\pm 0.5\%$
Transmitter power conducted	$\pm 0.8\text{dB}$
Transmitter power Radiated	$\pm 1.3\text{dB}$
Conducted spurious emission 9kHz-40 GHz	$\pm 2.7\text{dB}$
Conducted Emission	$\pm 3.2\text{ dB}$
Radiated Emission below 1GHz	$\pm 3.9\text{ dB}$
Radiated Emission above 1GHz	$\pm 4.8\text{ dB}$
Occupied Channel Bandwidth	$\pm 2\%$
FM deviation	$\pm 2\%$
Audio level	$\pm 0.98\text{dB}$
Low Pass Filter Response	$\pm 0.65\text{dB}$
Modulation Limiting	0.42 %
Transient Frequency Behavior	6.8 %

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3.5 LIST OF EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9020A	W1312-60196	Aug. 21, 2020	Aug. 20, 2021
EXA Signal Analyzer	Aglient	N9020A	MY52090123	Sep. 03, 2020	Sep. 02, 2021
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.16, 2019	Sep.15, 2021
preamplifier	ChengYi	EMC184045SE	980508	Sep. 21, 2019	Sep. 20, 2021
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2019	May. 16, 2021
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun. 09, 2020	Jun. 08, 2021
HORN ANTENNA	EM	EM-AH-10180	/	Feb.28, 2020	Feb.27, 2021
SIGNAL GENERATOR	AGILENT	E4421B	MY43351603	Jun. 09, 2020	Jun. 08, 2021
SIGNAL GENERATOR	R&S	SMT03	A0304261	Jun. 09, 2020	Jun. 08, 2021
ANTENNA	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 08, 2021	Jan. 07, 2023
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.20, 2019	Sep.19, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Jun. 11, 2020	Jun. 10, 2021
Modulation Domain Analyzer	HP	53310A	3121A02467	Jul. 03, 2020	Jul. 02, 2021
Small environmental tester	ESPEC	SH-242	--	Sep. 03, 2020	Sep. 02, 2022
RF Communication Test Set	HP	8920B	--	Jun. 09, 2020	Jun. 08, 2021
Attenuator	Weinachel Corp	58-30-33	ML030	Oct. 26, 2020	Oct. 25, 2021
RF Cable	R&S	1#	--	Each time	N/A
RF Cable	R&S	2#	--	Each time	N/A
Fliter-UHF	Microwave	N25155M2	498705	May 11, 2020	May 10, 2021
Fliter-VHF	Microwave	N26460M1	498703	May 11, 2020	May 10, 2021

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4.SYSTEM TEST CONFIGURATION

4.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT EXERCISE

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 CONFIGURATION OF TESTED SYSTEM

Fig. 2-1 Configuration of Tested System



Table 2-1 Equipment Used in Tested System

4.4 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement:

- ☐ Test Accessories Come From The Laboratory
☒ Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	Identifier	Note
1	DMR Digital Transceiver	MD-UV380G	FCC ID: POD-MDUV380	EUT

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4.5 SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	§90.210&22.359& 2.1053	Spurious Ratiated Emission	Pass

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5.DESCRPTION OF TEST MODES

The EUT (**Two-way radio**) has been tested under normal operating condition. (The top channel, the middle channel and the bottom channel) are chosen for testing at each channel separation.

NO.	TEST MODE DESCRIPTION	CHANNEL SEPARATION
1	TX Bottom channel-UHF	12.5 kHz
2	TX Middle channel-UHF	12.5 kHz
3	TX Middle channel-UHF	12.5 kHz
4	TX Top channel-UHF	12.5 kHz
5	TX Bottom channel-VHF	12.5 kHz
6	TX Middle channel-VHF	12.5 kHz
7	TX Middle channel-VHF	12.5 kHz
8	TX Middle channel-VHF	12.5 kHz
9	TX Top channel-VHF	12.5 kHz

Note:

1. Only the result of the worst case was recorded in the report, if no other cases.
2. The battery is full-charged during the test.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
4. For Conducted Test method, a temporary antenna connector is provided by the manufacture.
5. Manufacturers use computer PC programming software to switch and operate frequency points, refer to the instructions for details

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6. SPURIOUS RADIATED EMISSION

6.1 PROVISIONS APPLICABLE

According to FCC §2.1053 §22.359 and §90.210, the power of each unwanted emission shall be less than Transmitted Power as specified below for transmitters designed to operate with each channel separation.

Emission Mask D -for 12.5 kHz Channel Separation:

- (1) On any frequency removed from the center of the authorized bandwidth f_o to 5.625 kHz removed from f_o : Zero dB.
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency (f_d in kHz) f_o of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27(f_d - 2.88 \text{ kHz})$ dB
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement Frequency (f_d in kHz) f_o of more than 12.5 kHz: At least $50 + 10 \log(P)$ dB or 70 dB, whichever is lesser attenuation.

According to FCC §22.359:

- (a) *Out of band emissions.* The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

6.2 MEASUREMENT PROCEDURE

- (1) On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.

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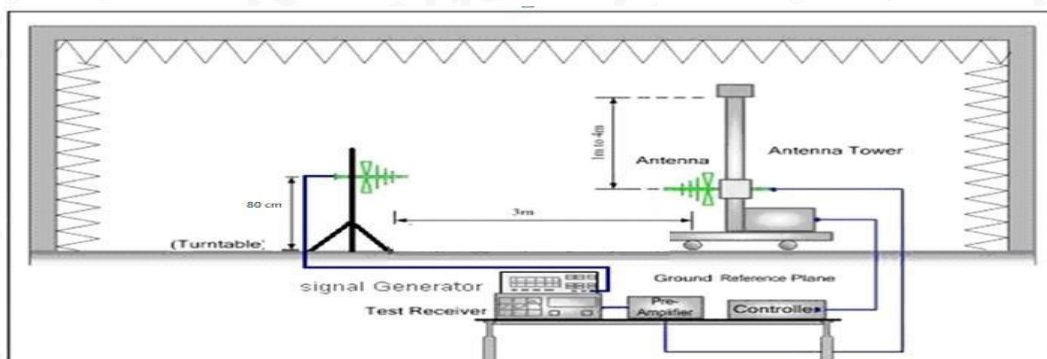
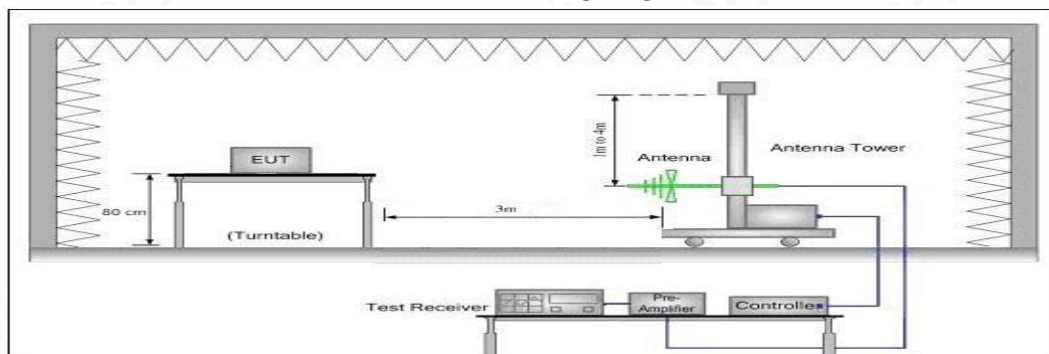
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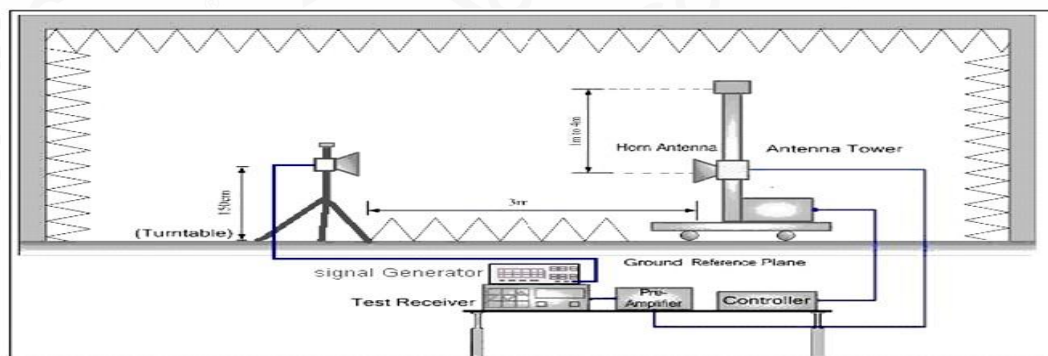
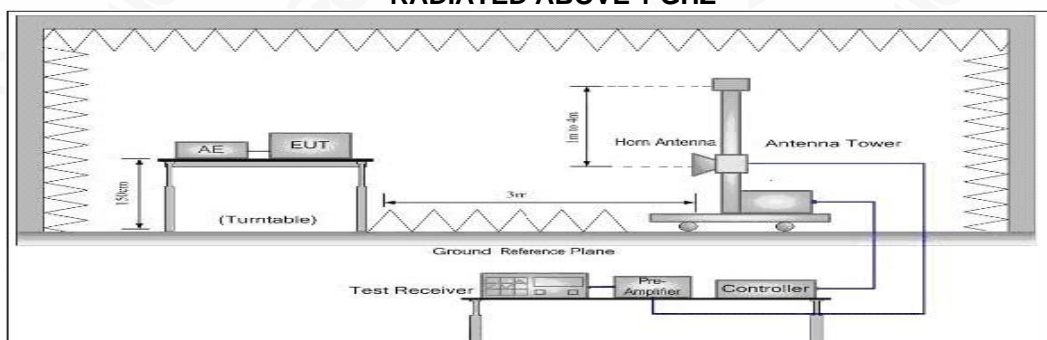


6.3 MEASUREMENT SETUP

RADIATED BELOW 1GHZ



RADIATED ABOVE 1 GHZ



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8.4 MEASUREMENT RESULTS

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz for below 1GHz, and 1MHz for above 1GHz. Sufficient scans were taken to show any out of band emissions up to 10 harmonic.

In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The “Read Value” is the spectrum reading of maximum power value.

The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.

EIRP = “Read Value” + Measured substitution value + 2.15.

Test limit calculation:

Preliminary calculation	Final Result
At least $50+10 \log (P) = 50+10 \log (5) = 56.99$ (dB)	Limit=P- Preliminary calculation= $36.99-56.99=-20$ dBm
At least $50+10 \log (P) = 50+10 \log (1) = 50.00$ (dB)	Limit=P- Preliminary calculation= $30.00-50.00=-20$ dBm
At least $43+10 \log (P) = 43+10 \log (5) = 49.99$ (dB)	Limit=P- Preliminary calculation= $36.99-49.99=-13$ dBm
At least $43+10 \log (P) = 43+10 \log (1) = 43.00$ (dB)	Limit=P- Preliminary calculation= $30.00-43.00=-13$ dBm

Note: In this case, Part 22 (-13 dBm) is less than the limit of Part 90 (-20 dBm), so we do not need to test Part 22, which meets the spurious limits of PART 90+22.

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Test Mode:	CH 400.025MHz-5W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	800.1800	-88.31	-44.89	-20.00	24.89	43.42	103	Horizontal
2	1199.7700	-39.64	-43.48	-20.00	23.48	-3.84	169	Horizontal
3	2000.0250	-48.96	-48.43	-20.00	28.43	0.53	328	Horizontal
4	3600.5351	-50.02	-45.73	-20.00	25.73	4.29	338	Horizontal
5	6001.3001	-55.43	-44.63	-20.00	24.63	10.80	272	Horizontal
6	7201.0951	-54.09	-41.63	-20.00	21.63	12.46	300	Horizontal

Test Mode:	CH 400.025MHz-5W - Analog	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	800.1800	-83.84	-41.47	-20.00	21.47	42.37	201	Vertical
2	904.9400	-87.10	-43.74	-20.00	23.74	43.36	257	Vertical
3	1199.7700	-36.55	-36.38	-20.00	16.38	0.17	135	Vertical
4	1600.4850	-43.27	-41.46	-20.00	21.46	1.81	163	Vertical
5	4000.0750	-48.99	-45.70	-20.00	25.70	3.29	172	Vertical
6	7201.0951	-53.66	-40.82	-20.00	20.82	12.84	144	Vertical

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Test Mode:	CH 453.225MHz-5W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	908.8200	-83.89	-40.76	-20.00	20.76	43.13	360	Horizontal
2	1359.5860	-44.10	-47.60	-20.00	27.60	-3.50	241	Horizontal
3	1813.1813	-48.10	-48.97	-20.00	28.97	-0.87	259	Horizontal
4	3172.7923	-44.87	-41.27	-20.00	21.27	3.60	166	Horizontal
5	4078.8079	-51.53	-46.98	-20.00	26.98	4.55	17	Horizontal
6	5828.5579	-54.53	-44.37	-20.00	24.37	10.16	17	Horizontal

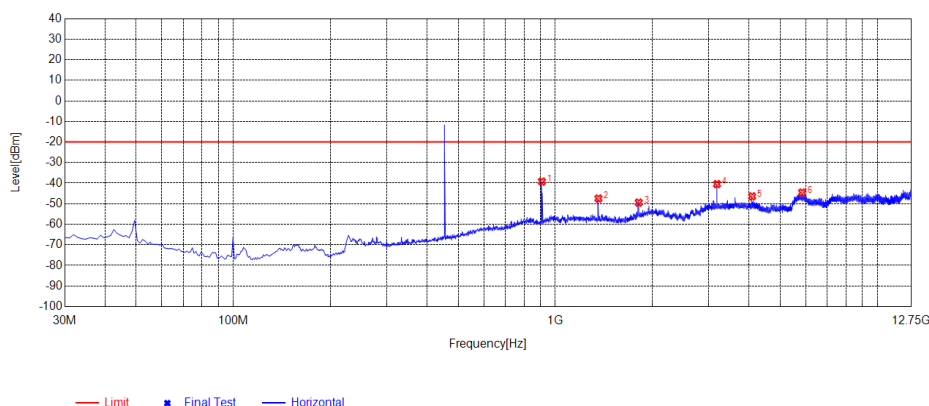
Test Mode:	CH 453.225MHz-5W- Analog	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	904.9400	-82.18	-38.82	-20.00	18.82	43.36	332	Vertical
2	1359.5860	-34.87	-33.64	-20.00	13.64	1.23	154	Vertical
3	1813.1813	-46.72	-45.66	-20.00	25.66	1.06	164	Vertical
4	3172.7923	-46.07	-42.91	-20.00	22.91	3.16	145	Vertical
5	5921.3921	-56.24	-46.07	-20.00	26.07	10.17	332	Vertical
6	8546.6047	-57.41	-44.36	-20.00	24.36	13.05	0	Vertical

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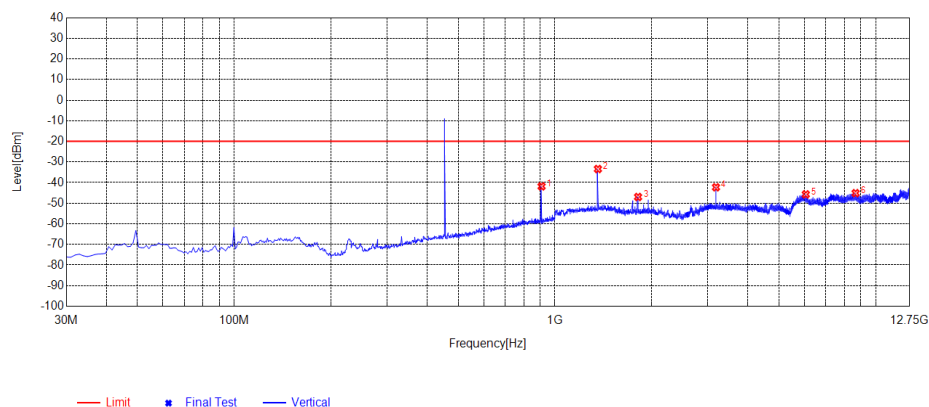


Test Mode:	CH 454.025MHz-5W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	908.8200	-82.35	-39.22	-20.00	19.22	43.13	252	Horizontal
2	1361.9362	-43.97	-47.47	-20.00	27.47	-3.50	9	Horizontal
3	1816.7067	-48.61	-49.45	-20.00	29.45	-0.84	318	Horizontal
4	3178.6679	-44.08	-40.47	-20.00	20.47	3.61	140	Horizontal
5	4085.8586	-50.94	-46.41	-20.00	26.41	4.53	360	Horizontal
6	5839.1339	-54.75	-44.55	-20.00	24.55	10.20	327	Horizontal

Test Mode:	CH 454.025MHz-5W- Analog	Polarity:	Vertical
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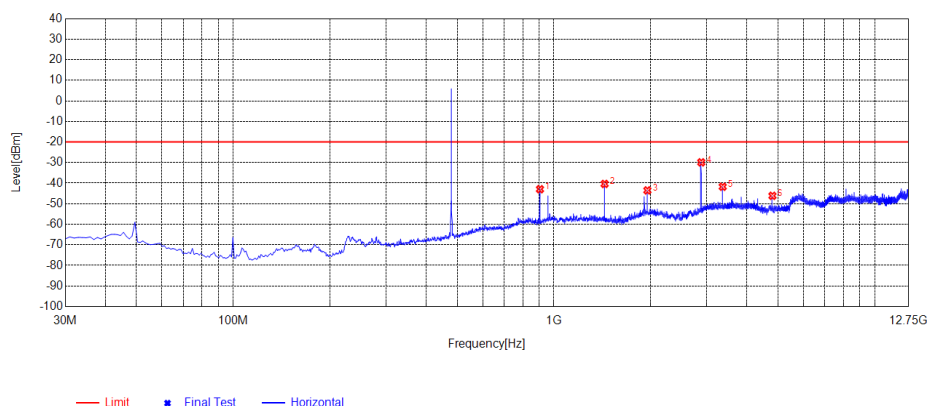


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	908.8200	-85.24	-41.84	-20.00	21.84	43.40	78	Vertical
2	1361.9362	-34.66	-33.42	-20.00	13.42	1.24	144	Vertical
3	1816.7067	-48.03	-46.98	-20.00	26.98	1.05	144	Vertical
4	3178.6679	-45.45	-42.29	-20.00	22.29	3.16	144	Vertical
5	6055.3555	-56.74	-45.73	-20.00	25.73	11.01	313	Vertical
6	8657.0657	-58.18	-45.12	-20.00	25.12	13.06	210	Vertical

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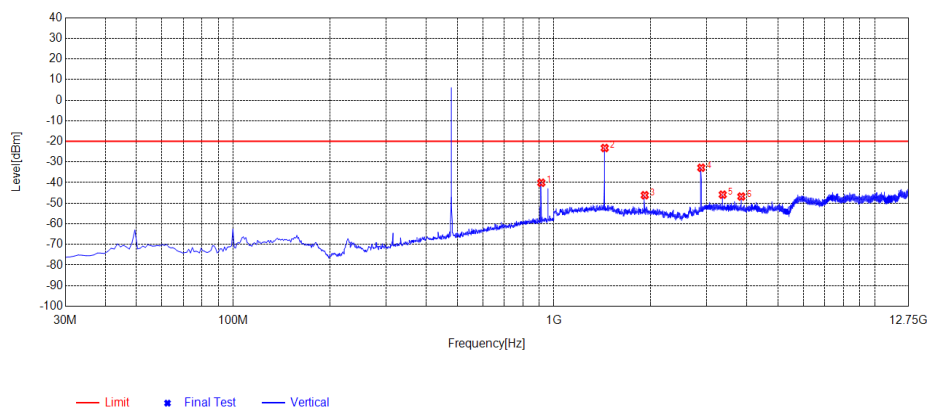


Test Mode:	CH 479.975MHz-5W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	904.9400	-86.00	-42.95	-20.00	22.95	43.05	242	Horizontal
2	1439.4939	-37.03	-40.37	-20.00	20.37	-3.34	73	Horizontal
3	1956.5457	-43.72	-43.52	-20.00	23.52	0.20	204	Horizontal
4	2880.1880	-32.05	-29.89	-20.00	9.89	2.16	167	Horizontal
5	3359.6360	-45.69	-41.76	-20.00	21.76	3.93	130	Horizontal
6	4800.3300	-49.80	-46.16	-20.00	26.16	3.64	223	Horizontal

Test Mode:	CH 479.975MHz-5W- Analog	Polarity:	Vertical
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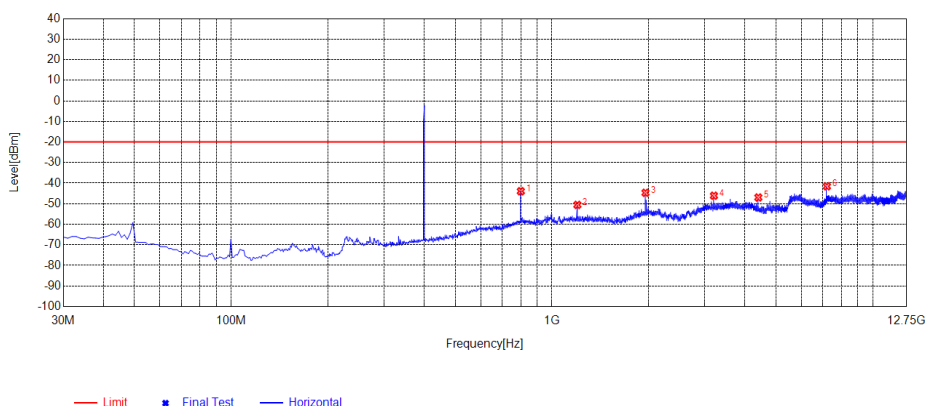


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	913.6700	-83.53	-40.08	-20.00	20.08	43.45	128	Vertical
2	1440.6691	-25.00	-23.23	-20.00	3.23	1.77	156	Vertical
3	1920.1170	-46.82	-46.13	-20.00	26.13	0.69	137	Vertical
4	2880.1880	-34.98	-32.80	-20.00	12.80	2.18	137	Vertical
5	3359.6360	-48.96	-45.86	-20.00	25.86	3.10	165	Vertical
6	3840.2590	-49.99	-46.77	-20.00	26.77	3.22	156	Vertical

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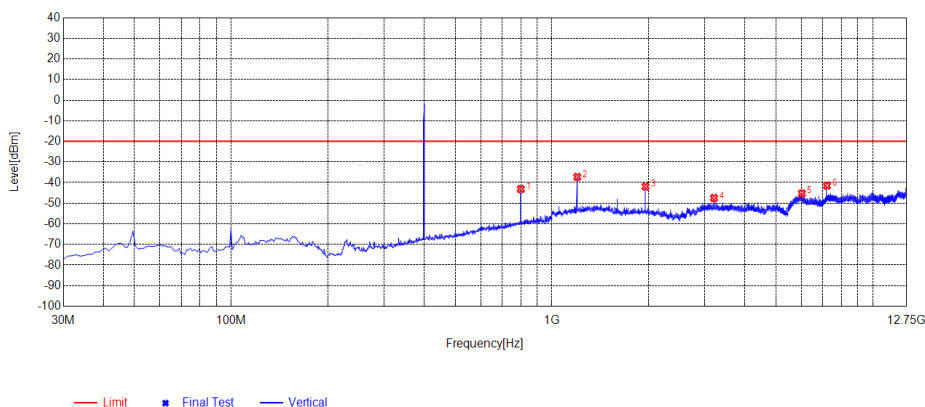


Test Mode:	CH 400.025MHz-1W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	800.1800	-87.35	-43.93	-20.00	23.93	43.42	72	Horizontal
2	1200.9451	-46.72	-50.56	-20.00	30.56	-3.84	278	Horizontal
3	1957.7208	-44.89	-44.68	-20.00	24.68	0.21	72	Horizontal
4	3199.8200	-49.76	-46.11	-20.00	26.11	3.65	240	Horizontal
5	4400.7901	-50.70	-46.97	-20.00	26.97	3.73	0	Horizontal
6	7199.9200	-54.02	-41.56	-20.00	21.56	12.46	278	Horizontal

Test Mode:	CH 400.025MHz-1W- Analog	Polarity:	Vertical
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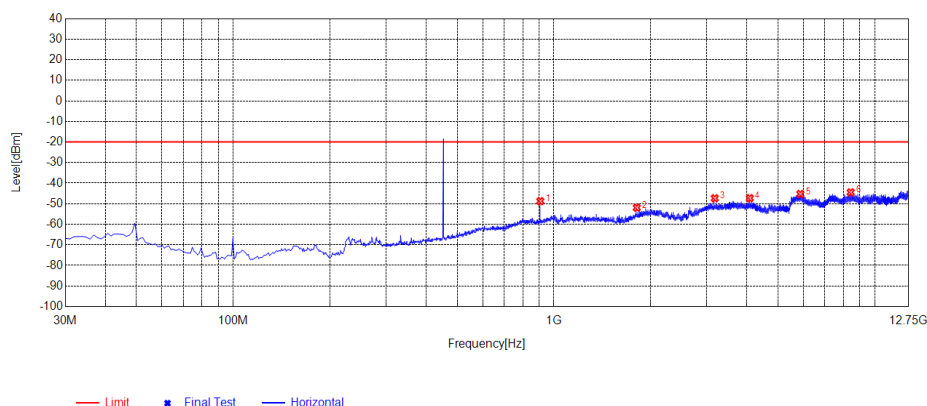


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	800.1800	-85.52	-43.15	-20.00	23.15	42.37	74	Vertical
2	1199.7700	-37.43	-37.26	-20.00	17.26	0.17	176	Vertical
3	1957.7208	-42.48	-41.92	-20.00	21.92	0.56	204	Vertical
4	3200.9951	-50.64	-47.49	-20.00	27.49	3.15	222	Vertical
5	6016.5767	-56.19	-45.24	-20.00	25.24	10.95	1	Vertical
6	7201.0951	-54.33	-41.49	-20.00	21.49	12.84	74	Vertical

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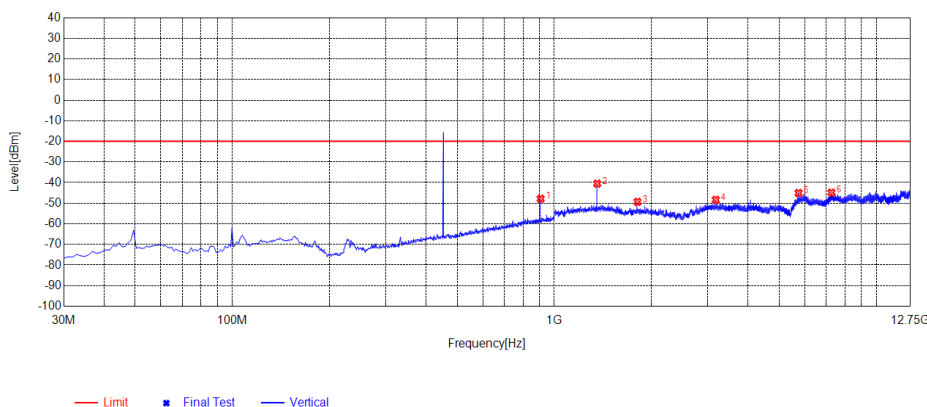


Test Mode:	CH 453.225MHz-1W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	906.8800	-91.86	-48.77	-20.00	28.77	43.09	122	Horizontal
2	1813.1813	-51.07	-51.94	-20.00	31.94	-0.87	122	Horizontal
3	3172.7923	-50.96	-47.36	-20.00	27.36	3.60	281	Horizontal
4	4079.9830	-51.86	-47.31	-20.00	27.31	4.55	18	Horizontal
5	5864.9865	-55.57	-45.28	-20.00	25.28	10.29	196	Horizontal
6	8417.3417	-57.39	-44.48	-20.00	24.48	12.91	140	Horizontal

Test Mode:	CH 453.225MHz-1W- Analog	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	906.8800	-91.22	-47.84	-20.00	27.84	43.38	63	Vertical
2	1359.5860	-41.75	-40.52	-20.00	20.52	1.23	147	Vertical
3	1813.1813	-50.41	-49.35	-20.00	29.35	1.06	156	Vertical
4	3172.7923	-51.53	-48.37	-20.00	28.37	3.16	203	Vertical
5	5733.3733	-53.41	-45.07	-20.00	25.07	8.34	128	Vertical
6	7251.6252	-57.89	-44.87	-20.00	24.87	13.02	138	Vertical

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Test Mode:	CH 454.025MHz-1W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	908.8200	-92.73	-49.60	-20.00	29.60	43.13	261	Horizontal
2	1983.5734	-52.23	-51.82	-20.00	31.82	0.41	121	Horizontal
3	3178.6679	-50.60	-46.99	-20.00	26.99	3.61	148	Horizontal
4	4087.0337	-51.01	-46.48	-20.00	26.48	4.53	26	Horizontal
5	5882.6133	-55.67	-45.31	-20.00	25.31	10.36	214	Horizontal
6	10050.7551	-60.31	-44.41	-20.00	24.41	15.90	1	Horizontal

Test Mode:	CH 454.025MHz-1W - Analog	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	913.6700	-85.93	-42.48	-20.00	22.48	43.45	351	Vertical
2	1361.9362	-42.60	-41.36	-20.00	21.36	1.24	154	Vertical
3	1816.7067	-50.14	-49.09	-20.00	29.09	1.05	163	Vertical
4	3178.6679	-50.55	-47.39	-20.00	27.39	3.16	191	Vertical
5	5967.2217	-55.76	-45.15	-20.00	25.15	10.61	6	Vertical
6	8621.8122	-58.68	-45.63	-20.00	25.63	13.05	323	Vertical

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Test Mode:	CH 479.975MHz-1W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	904.9400	-78.77	-35.72	-20.00	15.72	43.05	36	Horizontal
2	1439.4939	-45.14	-48.48	-20.00	28.48	-3.34	74	Horizontal
3	1956.5457	-48.19	-47.99	-20.00	27.99	0.20	10	Horizontal
4	2879.0129	-50.12	-47.97	-20.00	27.97	2.15	159	Horizontal
5	5762.7513	-55.04	-45.13	-20.00	25.13	9.91	177	Horizontal
6	7253.9754	-57.78	-45.10	-20.00	25.10	12.68	27	Horizontal

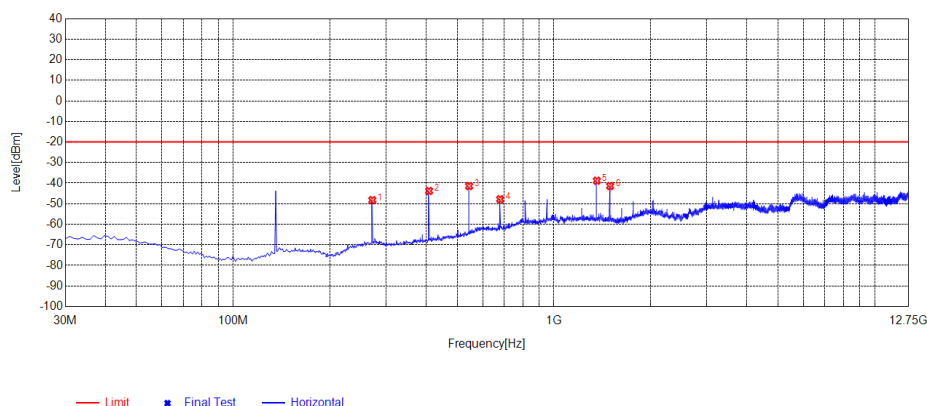
Test Mode:	CH 479.975MHz-1W- Analog	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	904.9400	-82.60	-39.24	-20.00	19.24	43.36	42	Vertical
2	1440.6691	-32.85	-31.08	-20.00	11.08	1.77	174	Vertical
3	3043.5294	-52.98	-49.78	-20.00	29.78	3.20	174	Vertical
4	5977.7978	-56.51	-45.80	-20.00	25.80	10.71	61	Vertical
5	8148.2398	-57.11	-44.27	-20.00	24.27	12.84	117	Vertical
6	10149.4649	-59.11	-42.92	-20.00	22.92	16.19	61	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

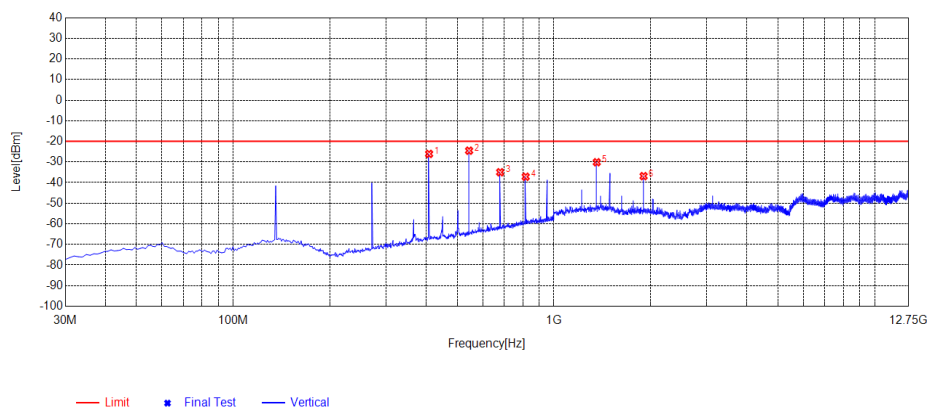


Test Mode:	CH 136.025MHz-5W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	271.5300	-81.33	-48.27	-20.00	28.27	33.06	288	Horizontal
2	408.3000	-78.36	-43.78	-20.00	23.78	34.58	28	Horizontal
3	544.1000	-79.30	-41.42	-20.00	21.42	37.88	317	Horizontal
4	679.9000	-87.90	-47.83	-20.00	27.83	40.07	121	Horizontal
5	1360.7611	-35.31	-38.81	-20.00	18.81	-3.50	354	Horizontal
6	1497.0747	-38.17	-41.39	-20.00	21.39	-3.22	326	Horizontal

Test Mode:	CH 136.025MHz-5W- Analog	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	408.3000	-61.19	-26.08	-20.00	6.08	35.11	109	Vertical
2	544.1000	-61.93	-24.52	-20.00	4.52	37.41	118	Vertical
3	679.9000	-75.11	-34.99	-20.00	14.99	40.12	165	Vertical
4	816.6700	-79.70	-37.17	-20.00	17.17	42.53	155	Vertical
5	1360.7611	-31.37	-30.13	-20.00	10.13	1.24	90	Vertical
6	1903.6654	-37.62	-36.87	-20.00	16.87	0.75	359	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Filing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



Test Mode:	CH 151.850MHz-5W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	303.5400	-75.44	-43.39	-20.00	23.39	32.05	280	Horizontal
2	455.8300	-68.80	-33.31	-20.00	13.31	35.49	214	Horizontal
3	608.1200	-84.10	-44.23	-20.00	24.23	39.87	196	Horizontal
4	911.7300	-89.94	-46.75	-20.00	26.75	43.19	251	Horizontal
5	1366.6367	-37.22	-40.71	-20.00	20.71	-3.49	354	Horizontal
6	3189.2439	-42.64	-39.01	-20.00	19.01	3.63	159	Horizontal

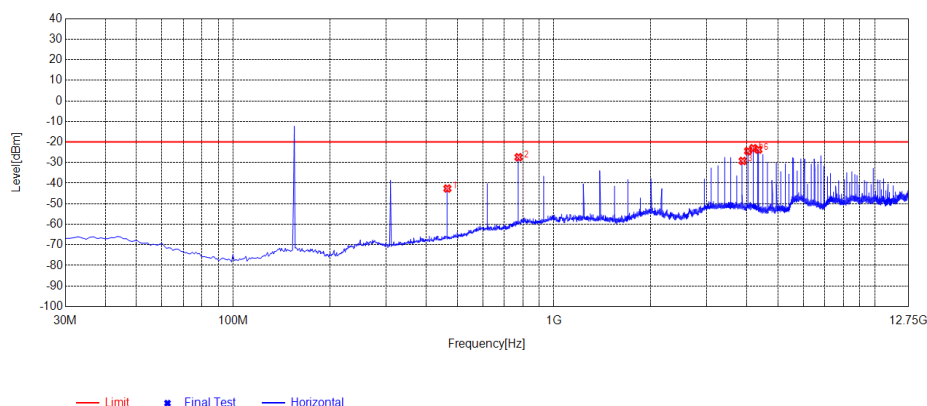
Test Mode:	CH 151.850MHz-5W- Analog	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	303.5400	-73.24	-42.17	-20.00	22.17	31.07	81	Vertical
2	455.8300	-79.28	-43.51	-20.00	23.51	35.77	26	Vertical
3	608.1200	-69.51	-30.66	-20.00	10.66	38.85	54	Vertical
4	759.4400	-80.26	-38.66	-20.00	18.66	41.60	16	Vertical
5	1366.6367	-33.00	-31.73	-20.00	11.73	1.27	72	Vertical
6	1518.2268	-38.93	-36.83	-20.00	16.83	2.10	128	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

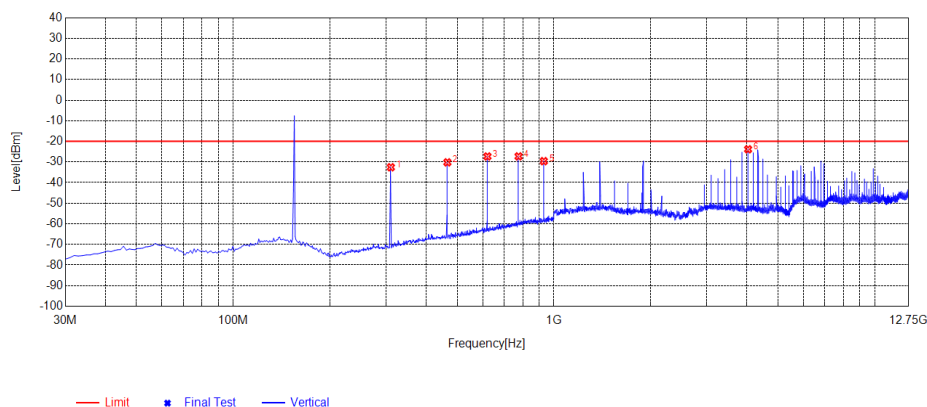


Test Mode:	CH 155.025MHz-5W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	465.5300	-78.28	-42.61	-20.00	22.61	35.67	214	Horizontal
2	775.9300	-70.04	-27.41	-20.00	7.41	42.63	271	Horizontal
3	3876.6877	-33.82	-29.21	-20.00	9.21	4.61	37	Horizontal
4	4030.6281	-29.06	-24.39	-20.00	4.39	4.67	243	Horizontal
5	4185.7436	-27.30	-23.02	-20.00	3.02	4.28	252	Horizontal
6	4340.8591	-27.57	-23.69	-20.00	3.69	3.88	261	Horizontal

Test Mode:	CH 155.025MHz-5W- Analog	Polarity:	Vertical
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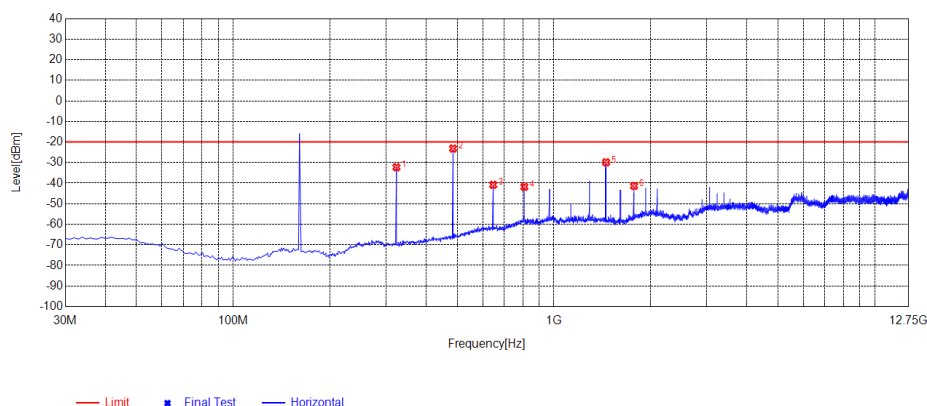


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	310.3300	-63.92	-32.57	-20.00	12.57	31.35	359	Vertical
2	465.5300	-66.10	-30.19	-20.00	10.19	35.91	351	Vertical
3	620.7300	-66.40	-27.33	-20.00	7.33	39.07	185	Vertical
4	775.9300	-69.20	-27.29	-20.00	7.29	41.91	185	Vertical
5	930.1600	-73.23	-29.61	-20.00	9.61	43.62	185	Vertical
6	4030.6281	-27.13	-23.85	-20.00	3.85	3.28	185	Vertical

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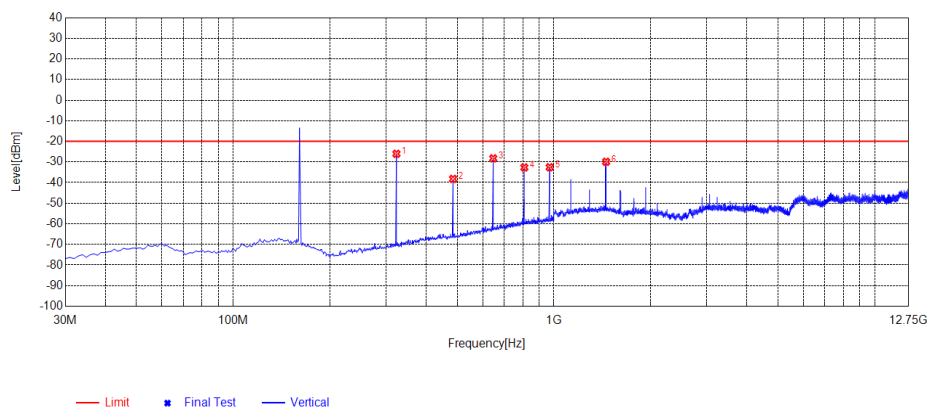


Test Mode:	CH 161.610MHz-5W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	322.9400	-64.79	-32.27	-20.00	12.27	32.52	233	Horizontal
2	484.9300	-59.21	-23.17	-20.00	3.17	36.04	195	Horizontal
3	646.9200	-80.79	-40.81	-20.00	20.81	39.98	176	Horizontal
4	808.9100	-85.17	-41.79	-20.00	21.79	43.38	92	Horizontal
5	1454.7705	-26.57	-29.87	-20.00	9.87	-3.30	326	Horizontal
6	1777.9278	-40.23	-41.36	-20.00	21.36	-1.13	360	Horizontal

Test Mode:	CH 161.610MHz-5W- Analog	Polarity:	Vertical
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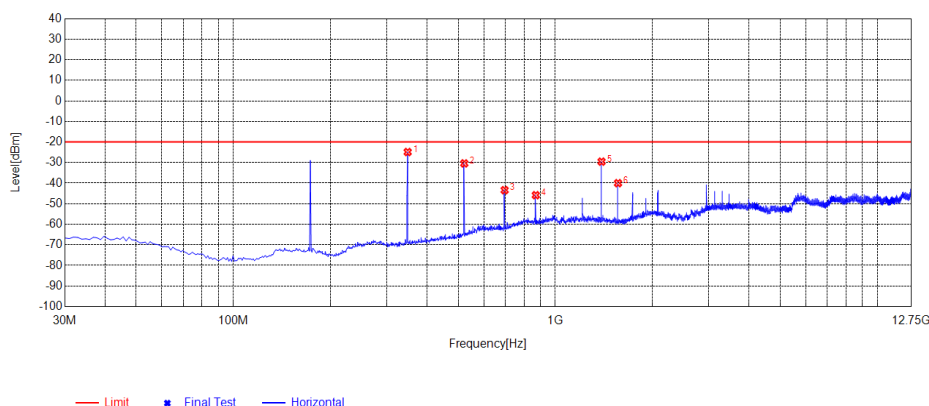


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	322.9400	-57.90	-26.04	-20.00	6.04	31.86	341	Vertical
2	484.9300	-74.39	-38.21	-20.00	18.21	36.18	351	Vertical
3	646.9200	-67.79	-28.25	-20.00	8.25	39.54	359	Vertical
4	808.9100	-75.11	-32.66	-20.00	12.66	42.45	351	Vertical
5	969.9300	-76.59	-32.57	-20.00	12.57	44.02	351	Vertical
6	1454.7705	-31.77	-29.91	-20.00	9.91	1.86	359	Vertical

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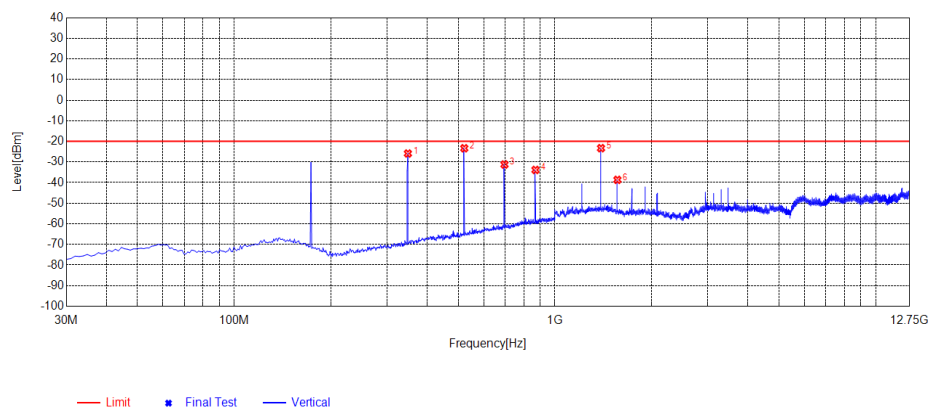


Test Mode:	CH 173.975MHz-5W - Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	348.1600	-58.01	-24.87	-20.00	4.87	33.14	225	Horizontal
2	521.7900	-67.50	-30.40	-20.00	10.40	37.10	198	Horizontal
3	696.3900	-83.52	-43.41	-20.00	23.41	40.11	282	Horizontal
4	870.0200	-88.93	-45.85	-20.00	25.85	43.08	122	Horizontal
5	1392.4892	-26.10	-29.54	-20.00	9.54	-3.44	169	Horizontal
6	1566.4066	-37.30	-40.01	-20.00	20.01	-2.71	1	Horizontal

Test Mode:	CH 173.975MHz-5W - Analog	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	348.1600	-58.78	-25.89	-20.00	5.89	32.89	172	Vertical
2	521.7900	-60.25	-23.35	-20.00	3.35	36.90	210	Vertical
3	696.3900	-71.65	-31.24	-20.00	11.24	40.41	134	Vertical
4	870.0200	-76.89	-33.86	-20.00	13.86	43.03	153	Vertical
5	1392.4892	-24.76	-23.31	-20.00	3.31	1.45	78	Vertical
6	1566.4066	-40.60	-38.67	-20.00	18.67	1.93	106	Vertical

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Test Mode:	CH 136.025MHz-1W - Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	193.9300	-78.82	-51.12	-20.00	31.12	27.70	193	Horizontal
2	271.5300	-79.06	-46.00	-20.00	26.00	33.06	43	Horizontal
3	408.3000	-78.60	-44.02	-20.00	24.02	34.58	15	Horizontal
4	544.1000	-82.01	-44.13	-20.00	24.13	37.88	306	Horizontal
5	952.4700	-94.51	-50.43	-20.00	30.43	44.08	250	Horizontal
6	1360.7611	-44.30	-47.80	-20.00	27.80	-3.50	351	Horizontal

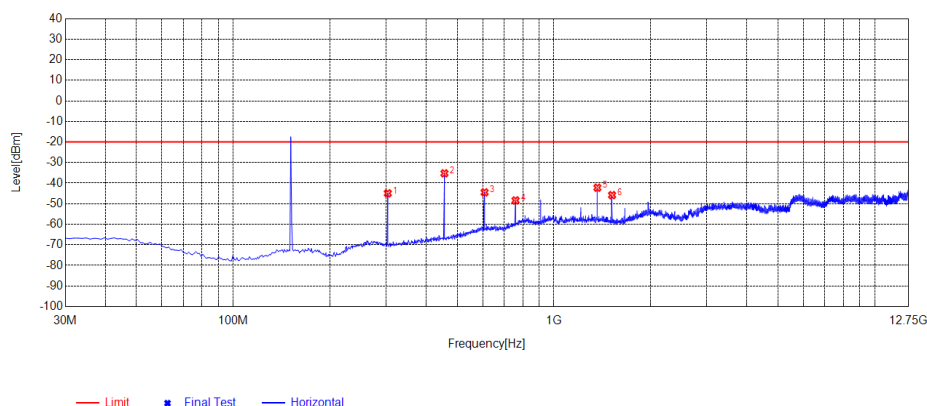
Test Mode:	CH 136.025MHz-1W - Analog	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	271.5300	-67.98	-37.80	-20.00	17.80	30.18	237	Vertical
2	408.3000	-61.98	-26.87	-20.00	6.87	35.11	113	Vertical
3	544.1000	-64.72	-27.31	-20.00	7.31	37.41	141	Vertical
4	679.9000	-78.15	-38.03	-20.00	18.03	40.12	179	Vertical
5	816.6700	-83.59	-41.06	-20.00	21.06	42.53	169	Vertical
6	1360.7611	-41.58	-40.34	-20.00	20.34	1.24	103	Vertical

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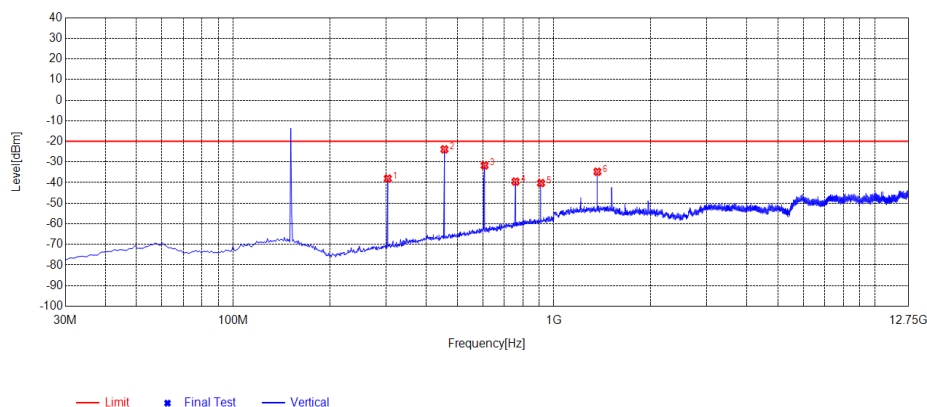


Test Mode:	CH 151.850MHz-1W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	303.5400	-76.99	-44.94	-20.00	24.94	32.05	229	Horizontal
2	455.8300	-70.72	-35.23	-20.00	15.23	35.49	210	Horizontal
3	608.1200	-84.35	-44.48	-20.00	24.48	39.87	183	Horizontal
4	759.4400	-90.49	-48.41	-20.00	28.41	42.08	89	Horizontal
5	1366.6367	-38.73	-42.22	-20.00	22.22	-3.49	173	Horizontal
6	1518.2268	-42.76	-45.83	-20.00	25.83	-3.07	6	Horizontal

Test Mode:	CH 151.850MHz-1W- Analog	Polarity:	Vertical
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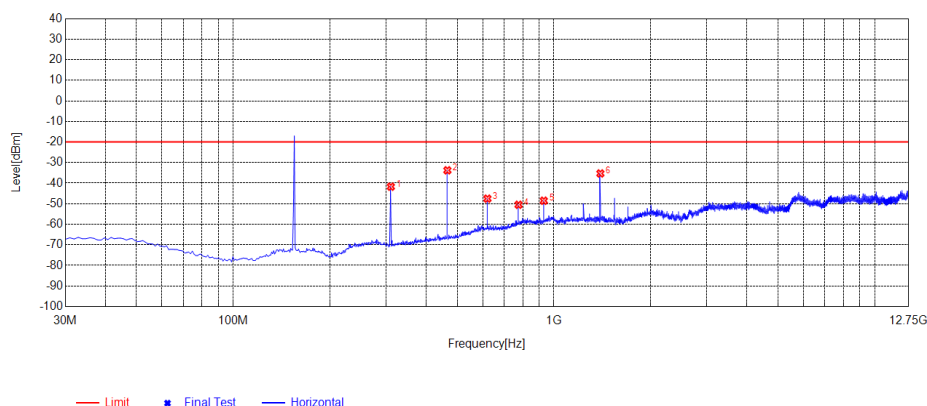


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	303.5400	-69.11	-38.04	-20.00	18.04	31.07	84	Vertical
2	455.8300	-59.65	-23.88	-20.00	3.88	35.77	338	Vertical
3	608.1200	-70.54	-31.69	-20.00	11.69	38.85	28	Vertical
4	759.4400	-81.13	-39.53	-20.00	19.53	41.60	28	Vertical
5	911.7300	-83.67	-40.24	-20.00	20.24	43.43	187	Vertical
6	1366.6367	-36.01	-34.74	-20.00	14.74	1.27	103	Vertical

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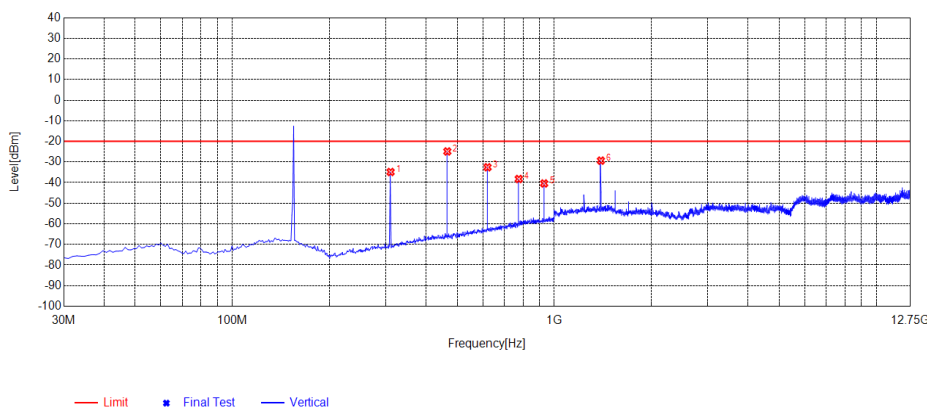


Test Mode:	CH 155.025MHz-1W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	310.3300	-73.93	-41.72	-20.00	21.72	32.21	235	Horizontal
2	465.5300	-69.44	-33.77	-20.00	13.77	35.67	207	Horizontal
3	620.7300	-87.45	-47.54	-20.00	27.54	39.91	179	Horizontal
4	775.9300	-93.13	-50.50	-20.00	30.50	42.63	103	Horizontal
5	930.1600	-92.13	-48.54	-20.00	28.54	43.59	235	Horizontal
6	1396.0146	-31.86	-35.29	-20.00	15.29	-3.43	160	Horizontal

Test Mode:	CH 155.025MHz-1W- Analog	Polarity:	Vertical
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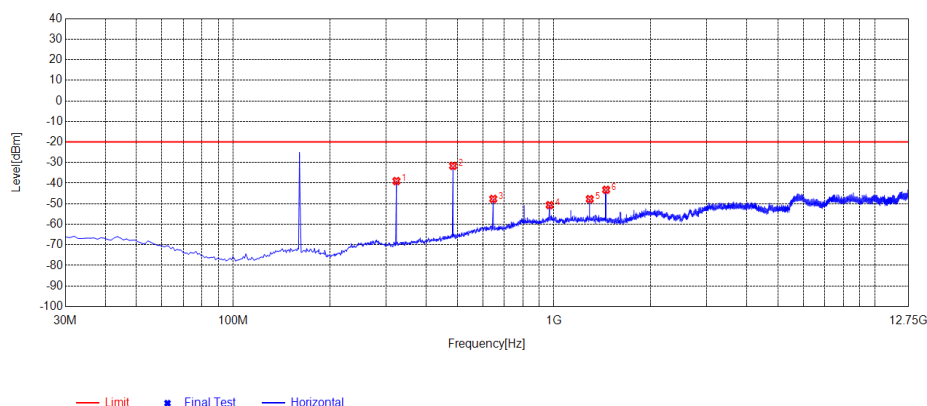


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	310.3300	-66.21	-34.86	-20.00	14.86	31.35	82	Vertical
2	465.5300	-60.81	-24.90	-20.00	4.90	35.91	360	Vertical
3	620.7300	-71.64	-32.57	-20.00	12.57	39.07	73	Vertical
4	775.9300	-80.17	-38.26	-20.00	18.26	41.91	222	Vertical
5	930.1600	-84.04	-40.42	-20.00	20.42	43.62	176	Vertical
6	1396.0146	-30.82	-29.35	-20.00	9.35	1.47	92	Vertical

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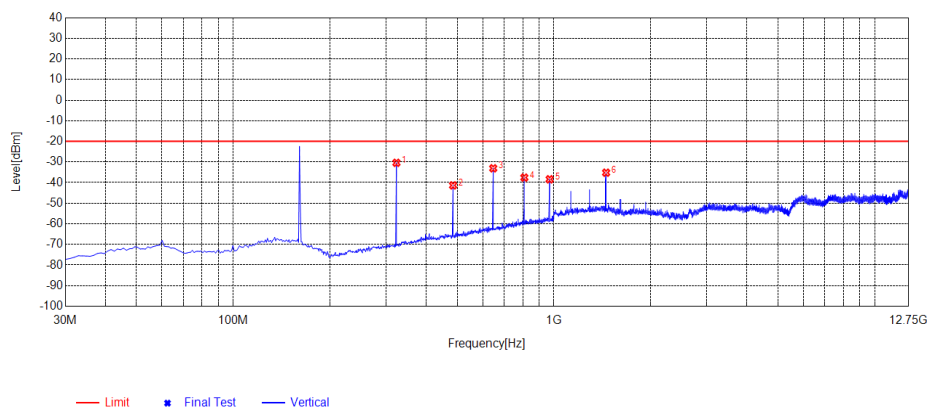


Test Mode:	CH 161.610MHz-1W- Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	322.9400	-71.52	-39.00	-20.00	19.00	32.52	222	Horizontal
2	484.9300	-67.64	-31.60	-20.00	11.60	36.04	185	Horizontal
3	646.9200	-87.65	-47.67	-20.00	27.67	39.98	156	Horizontal
4	969.9300	-95.14	-50.68	-20.00	30.68	44.46	44	Horizontal
5	1293.7794	-44.11	-47.75	-20.00	27.75	-3.64	0	Horizontal
6	1454.7705	-39.95	-43.25	-20.00	23.25	-3.30	16	Horizontal

Test Mode:	CH 161.610MHz-1W - Analog	Polarity:	Vertical
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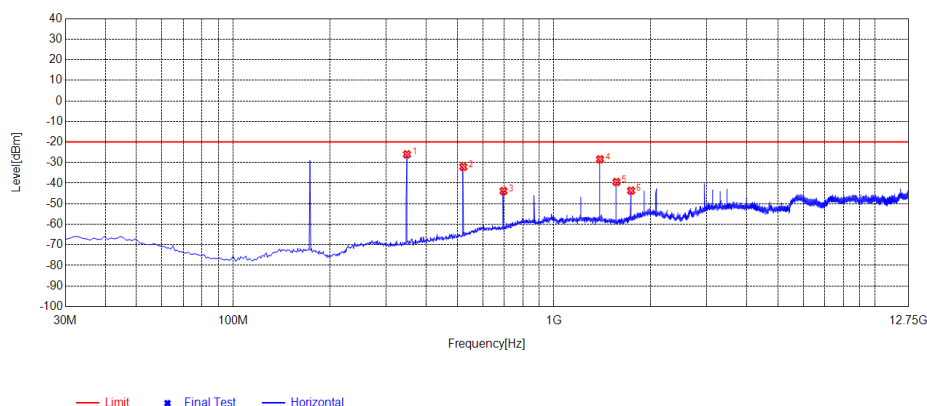


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	322.9400	-62.27	-30.41	-20.00	10.41	31.86	269	Vertical
2	484.9300	-77.55	-41.37	-20.00	21.37	36.18	194	Vertical
3	646.9200	-72.62	-33.08	-20.00	13.08	39.54	166	Vertical
4	808.9100	-80.03	-37.58	-20.00	17.58	42.45	45	Vertical
5	969.9300	-82.42	-38.40	-20.00	18.40	44.02	288	Vertical
6	1454.7705	-37.06	-35.20	-20.00	15.20	1.86	232	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Filing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

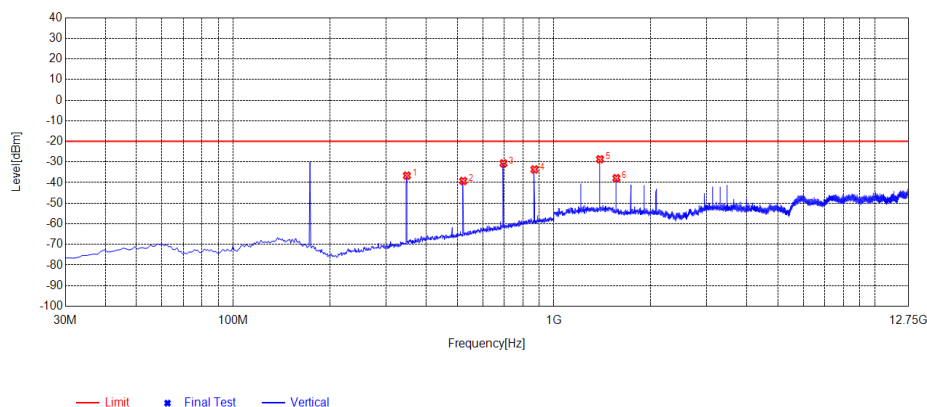


Test Mode:	CH 173.975MHz-1W - Analog	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	348.1600	-59.13	-25.99	-20.00	5.99	33.14	211	Horizontal
2	521.7900	-69.19	-32.09	-20.00	12.09	37.10	182	Horizontal
3	696.3900	-83.96	-43.85	-20.00	23.85	40.11	266	Horizontal
4	1392.4892	-24.99	-28.43	-20.00	8.43	-3.44	154	Horizontal
5	1566.4066	-36.74	-39.45	-20.00	19.45	-2.71	0	Horizontal
6	1740.3240	-42.24	-43.65	-20.00	23.65	-1.41	351	Horizontal

Test Mode:	CH 173.975MHz-1W- Analog	Polarity:	Vertical
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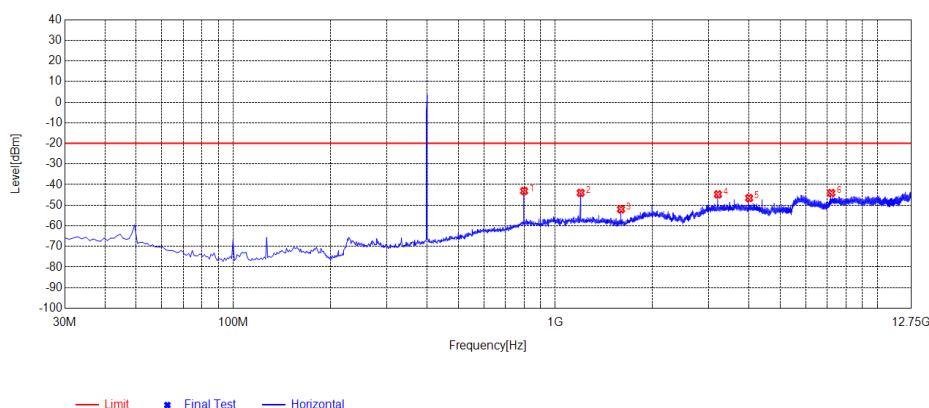
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	348.1600	-69.52	-36.63	-20.00	16.63	32.89	169	Vertical
2	521.7900	-76.13	-39.23	-20.00	19.23	36.90	225	Vertical
3	696.3900	-71.08	-30.67	-20.00	10.67	40.41	65	Vertical
4	870.0200	-76.66	-33.63	-20.00	13.63	43.03	207	Vertical
5	1392.4892	-30.13	-28.68	-20.00	8.68	1.45	94	Vertical
6	1566.4066	-39.78	-37.85	-20.00	17.85	1.93	112	Vertical

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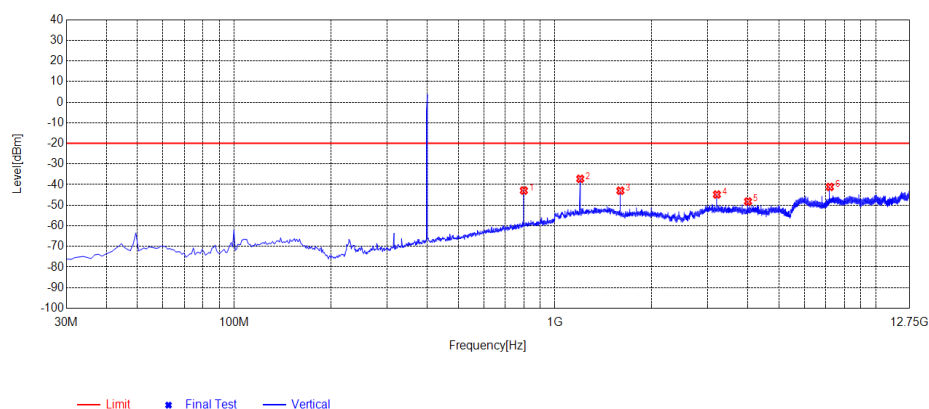
Digital:

Test Mode:	CH 400.025MHz-5W- Digital	Polarity:	Horizontal
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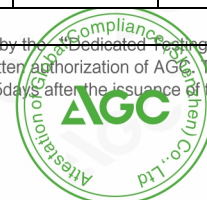
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	800.1800	-86.53	-43.11	-20.00	23.11	43.42	86	Horizontal
2	1199.7700	-40.17	-44.01	-20.00	24.01	-3.84	161	Horizontal
3	1600.4850	-49.53	-51.99	-20.00	31.99	-2.46	96	Horizontal
4	3199.8200	-48.41	-44.76	-20.00	24.76	3.65	152	Horizontal
5	4000.0750	-51.29	-46.54	-20.00	26.54	4.75	323	Horizontal
6	7201.0951	-56.57	-44.11	-20.00	24.11	12.46	171	Horizontal

Test Mode:	CH 400.025MHz-5W- Digital	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	800.1800	-85.27	-42.90	-20.00	22.90	42.37	140	Vertical
2	1199.7700	-37.37	-37.20	-20.00	17.20	0.17	122	Vertical
3	1600.4850	-44.78	-42.97	-20.00	22.97	1.81	178	Vertical
4	3199.8200	-47.97	-44.82	-20.00	24.82	3.15	160	Vertical
5	4000.0750	-51.49	-48.20	-20.00	28.20	3.29	197	Vertical
6	7199.9200	-53.97	-41.13	-20.00	21.13	12.84	1	Vertical

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Test Mode:	CH 453.225MHz-5W - Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	906.8800	-89.69	-46.60	-20.00	26.60	43.09	248	Horizontal
2	1359.5860	-43.97	-47.47	-20.00	27.47	-3.50	13	Horizontal
3	1747.3747	-41.68	-43.04	-20.00	23.04	-1.36	286	Horizontal
4	3172.7923	-44.81	-41.21	-20.00	21.21	3.60	136	Horizontal
5	5715.7466	-55.08	-45.35	-20.00	25.35	9.73	211	Horizontal
6	8222.2722	-58.18	-45.31	-20.00	25.31	12.87	304	Horizontal

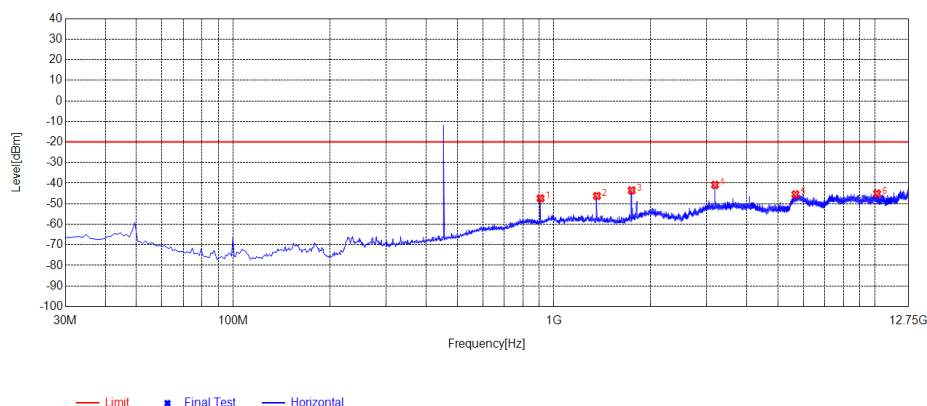
Test Mode:	CH 453.225MHz-5W- Digital	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	907.8500	-77.03	-33.64	-20.00	13.64	43.39	338	Vertical
2	1359.5860	-36.36	-35.13	-20.00	15.13	1.23	160	Vertical
3	1813.1813	-48.15	-47.09	-20.00	27.09	1.06	160	Vertical
4	3172.7923	-45.60	-42.44	-20.00	22.44	3.16	132	Vertical
5	5899.0649	-55.87	-45.92	-20.00	25.92	9.95	347	Vertical
6	10690.0190	-58.78	-42.73	-20.00	22.73	16.05	347	Vertical

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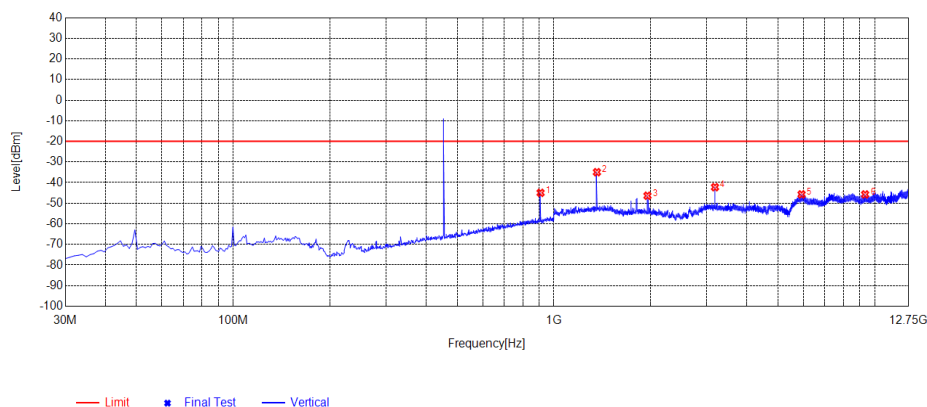


Test Mode:	CH 454.025MHz-5W- Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	908.8200	-90.53	-47.40	-20.00	27.40	43.13	108	Horizontal
2	1361.9362	-42.74	-46.24	-20.00	26.24	-3.50	359	Horizontal
3	1747.3747	-42.18	-43.54	-20.00	23.54	-1.36	230	Horizontal
4	3178.6679	-44.47	-40.86	-20.00	20.86	3.61	126	Horizontal
5	5662.8663	-55.01	-45.48	-20.00	25.48	9.53	296	Horizontal
6	10178.8429	-60.90	-45.08	-20.00	25.08	15.82	211	Horizontal

Test Mode:	CH 454.025MHz-5W- Digital	Polarity:	Vertical
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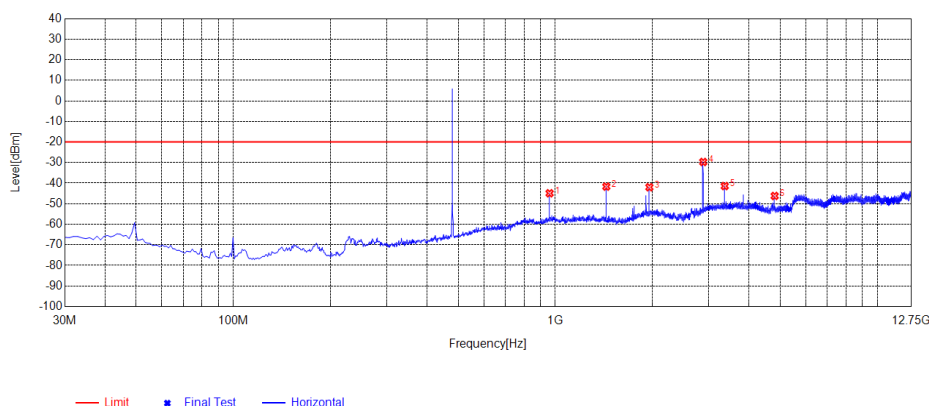


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	908.8200	-88.37	-44.97	-20.00	24.97	43.40	102	Vertical
2	1361.9362	-36.20	-34.96	-20.00	14.96	1.24	158	Vertical
3	1957.7208	-46.94	-46.38	-20.00	26.38	0.56	311	Vertical
4	3178.6679	-45.39	-42.23	-20.00	22.23	3.16	121	Vertical
5	5916.6917	-55.85	-45.73	-20.00	25.73	10.12	302	Vertical
6	9338.6339	-60.04	-45.75	-20.00	25.75	14.29	9	Vertical

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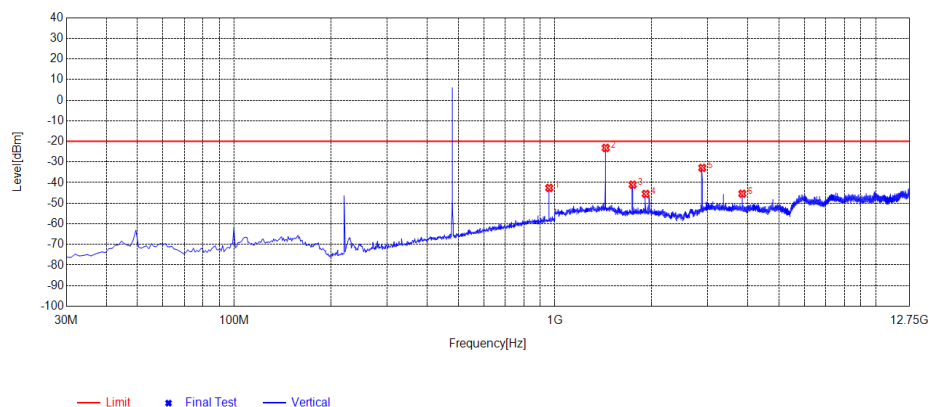


Test Mode:	CH 479.975MHz-5W- Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	960.2300	-89.17	-44.92	-20.00	24.92	44.25	268	Horizontal
2	1440.6691	-38.36	-41.69	-20.00	21.69	-3.33	63	Horizontal
3	1960.0710	-42.22	-41.99	-20.00	21.99	0.23	81	Horizontal
4	2880.1880	-31.87	-29.71	-20.00	9.71	2.16	175	Horizontal
5	3359.6360	-45.36	-41.43	-20.00	21.43	3.93	128	Horizontal
6	4800.3300	-49.86	-46.22	-20.00	26.22	3.64	221	Horizontal

Test Mode:	CH 479.975MHz-5W - Digital	Polarity:	Vertical
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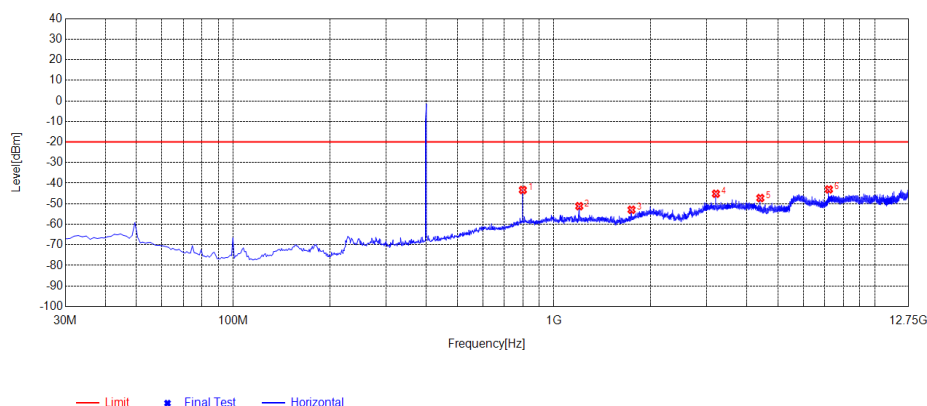


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	960.2300	-86.51	-42.59	-20.00	22.59	43.92	56	Vertical
2	1440.6691	-24.96	-23.19	-20.00	3.19	1.77	150	Vertical
3	1747.3747	-42.31	-41.02	-20.00	21.02	1.29	206	Vertical
4	1920.1170	-46.19	-45.50	-20.00	25.50	0.69	140	Vertical
5	2880.1880	-35.04	-32.86	-20.00	12.86	2.18	150	Vertical
6	3840.2590	-48.63	-45.41	-20.00	25.41	3.22	178	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

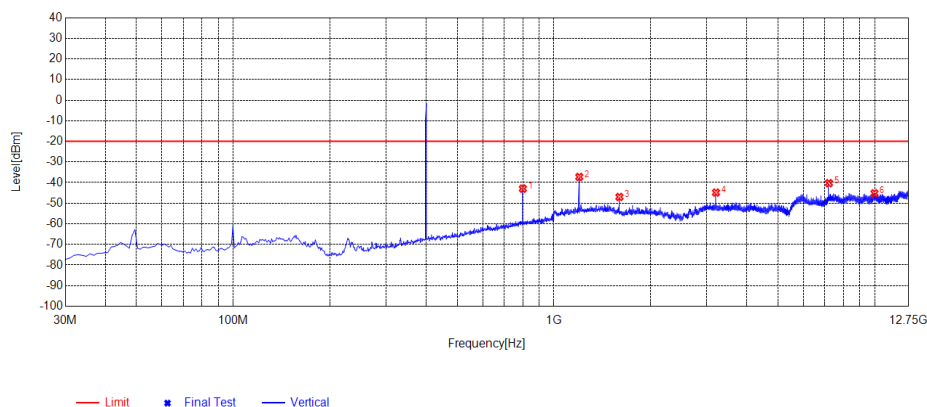


Test Mode:	CH 400.025MHz-1W- Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	800.1800	-86.76	-43.34	-20.00	23.34	43.42	88	Horizontal
2	1199.7700	-47.36	-51.20	-20.00	31.20	-3.84	257	Horizontal
3	1746.1996	-51.58	-52.95	-20.00	32.95	-1.37	359	Horizontal
4	3200.9951	-48.81	-45.16	-20.00	25.16	3.65	125	Horizontal
5	4400.7901	-50.99	-47.26	-20.00	27.26	3.73	351	Horizontal
6	7201.0951	-55.50	-43.04	-20.00	23.04	12.46	266	Horizontal

Test Mode:	CH 400.025MHz-1W - Digital	Polarity:	Vertical
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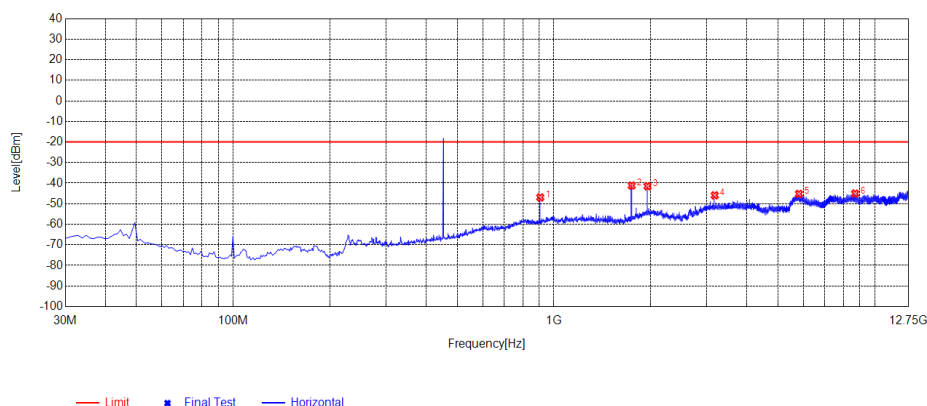


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	800.1800	-85.32	-42.95	-20.00	22.95	42.37	129	Vertical
2	1199.7700	-37.41	-37.24	-20.00	17.24	0.17	148	Vertical
3	1600.4850	-48.79	-46.98	-20.00	26.98	1.81	176	Vertical
4	3200.9951	-47.99	-44.84	-20.00	24.84	3.15	157	Vertical
5	7201.0951	-53.13	-40.29	-20.00	20.29	12.84	360	Vertical
6	9987.2987	-61.30	-45.20	-20.00	25.20	16.10	335	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Filing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

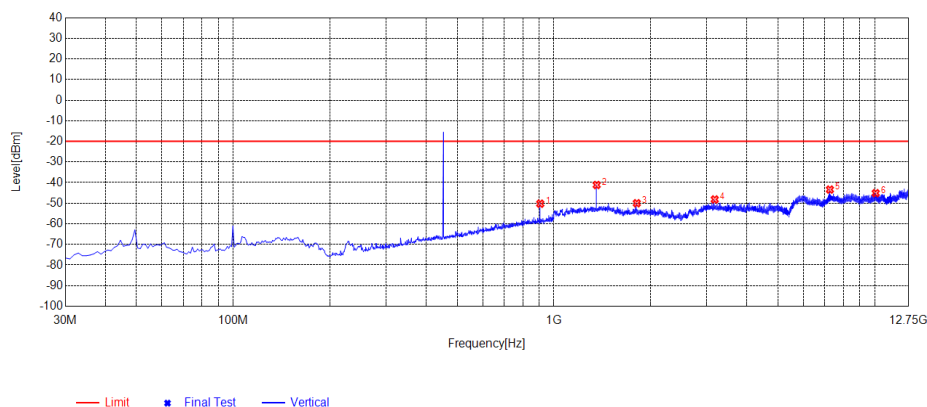


Test Mode:	CH 453.225MHz-1W - Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	906.8800	-90.03	-46.94	-20.00	26.94	43.09	259	Horizontal
2	1748.5499	-39.82	-41.17	-20.00	21.17	-1.35	250	Horizontal
3	1958.8959	-41.73	-41.51	-20.00	21.51	0.22	62	Horizontal
4	3172.7923	-49.53	-45.93	-20.00	25.93	3.60	118	Horizontal
5	5806.2306	-55.30	-45.23	-20.00	25.23	10.07	175	Horizontal
6	8691.1441	-58.13	-45.06	-20.00	25.06	13.07	99	Horizontal

Test Mode:	CH 453.225MHz-1W- Digital	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	906.8800	-93.62	-50.24	-20.00	30.24	43.38	94	Vertical
2	1359.5860	-42.39	-41.16	-20.00	21.16	1.23	168	Vertical
3	1813.1813	-51.08	-50.02	-20.00	30.02	1.06	244	Vertical
4	3172.7923	-51.34	-48.18	-20.00	28.18	3.16	140	Vertical
5	7251.6252	-56.41	-43.39	-20.00	23.39	13.02	356	Vertical
6	10075.4325	-61.29	-45.13	-20.00	25.13	16.16	360	Vertical

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Test Mode:	CH 454.025MHz-1W - Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	905.9100	-84.11	-41.04	-20.00	21.04	43.07	341	Horizontal
2	1974.1724	-44.49	-44.15	-20.00	24.15	0.34	0	Horizontal
3	3178.6679	-50.28	-46.67	-20.00	26.67	3.61	125	Horizontal
4	4087.0337	-51.00	-46.47	-20.00	26.47	4.53	0	Horizontal
5	5837.9588	-55.23	-45.04	-20.00	25.04	10.19	5	Horizontal
6	7505.4505	-58.91	-45.25	-20.00	25.25	13.66	332	Horizontal

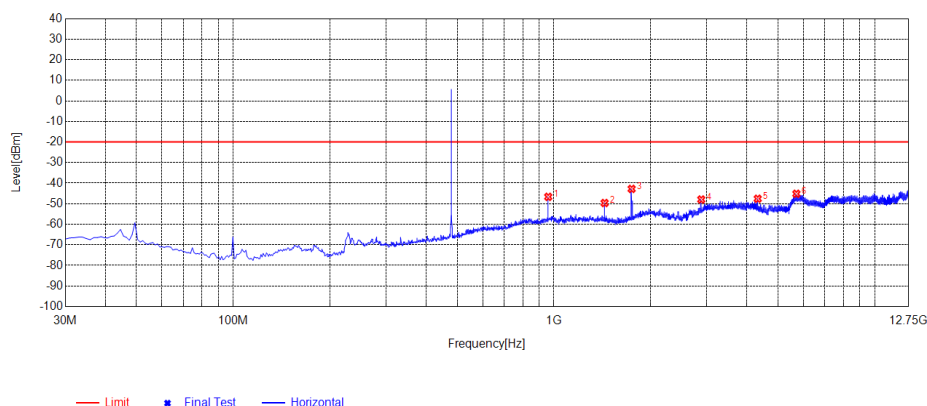
Test Mode:	CH 454.025MHz-1W - Digital	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	908.8200	-93.24	-49.84	-20.00	29.84	43.40	103	Vertical
2	1361.9362	-43.18	-41.94	-20.00	21.94	1.24	188	Vertical
3	1957.7208	-43.76	-43.20	-20.00	23.20	0.56	28	Vertical
4	3178.6679	-50.39	-47.23	-20.00	27.23	3.16	122	Vertical
5	4087.0337	-50.30	-47.05	-20.00	27.05	3.25	150	Vertical
6	5926.0926	-55.62	-45.41	-20.00	25.41	10.21	348	Vertical

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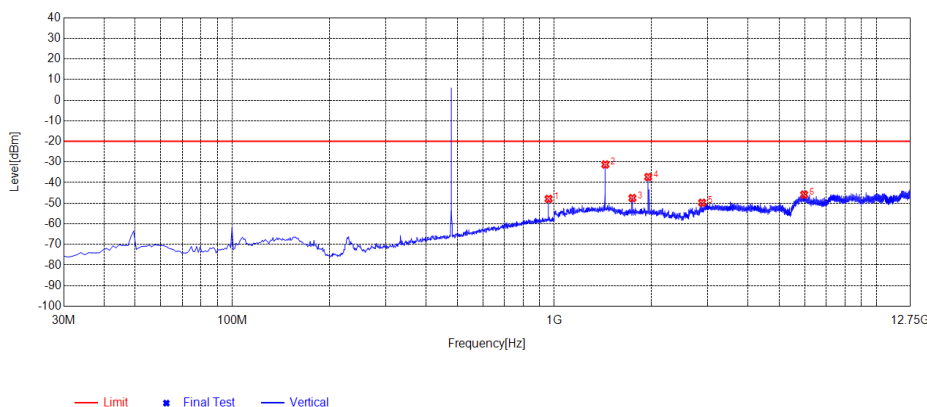


Test Mode:	CH 479.975MHz-1W - Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	960.2300	-90.91	-46.66	-20.00	26.66	44.25	248	Horizontal
2	1439.4939	-46.32	-49.66	-20.00	29.66	-3.34	88	Horizontal
3	1747.3747	-41.43	-42.79	-20.00	22.79	-1.36	229	Horizontal
4	2880.1880	-50.12	-47.96	-20.00	27.96	2.16	135	Horizontal
5	4319.7070	-51.52	-47.58	-20.00	27.58	3.94	0	Horizontal
6	5700.4700	-54.85	-45.18	-20.00	25.18	9.67	60	Horizontal

Test Mode:	CH 479.975MHz-1W - Digital	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	960.2300	-91.83	-47.91	-20.00	27.91	43.92	56	Vertical
2	1440.6691	-33.01	-31.24	-20.00	11.24	1.77	197	Vertical
3	1748.5499	-48.82	-47.53	-20.00	27.53	1.29	360	Vertical
4	1957.7208	-37.84	-37.28	-20.00	17.28	0.56	206	Vertical
5	2880.1880	-51.95	-49.77	-20.00	29.77	2.18	160	Vertical
6	5971.9222	-56.50	-45.84	-20.00	25.84	10.66	47	Vertical

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Test Mode:	CH 136.025MHz-5W- Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	271.5300	-78.57	-45.51	-20.00	25.51	33.06	52	Horizontal
2	408.3000	-81.08	-46.50	-20.00	26.50	34.58	14	Horizontal
3	544.1000	-83.55	-45.67	-20.00	25.67	37.88	62	Horizontal
4	679.9000	-79.65	-39.58	-20.00	19.58	40.07	296	Horizontal
5	1360.7611	-24.95	-28.45	-20.00	8.45	-3.50	0	Horizontal
6	1497.0747	-26.22	-29.44	-20.00	9.44	-3.22	165	Horizontal

Test Mode:	CH 136.025MHz-5W- Digital	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	271.5300	-68.18	-38.00	-20.00	18.00	30.18	140	Vertical
2	408.3000	-73.05	-37.94	-20.00	17.94	35.11	360	Vertical
3	544.1000	-66.11	-28.70	-20.00	8.70	37.41	131	Vertical
4	679.9000	-65.58	-25.46	-20.00	5.46	40.12	37	Vertical
5	1360.7611	-28.87	-27.63	-20.00	7.63	1.24	9	Vertical
6	1497.0747	-28.58	-26.44	-20.00	6.44	2.14	122	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Filing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



Test Mode:	CH 151.850MHz-5W- Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	303.5400	-74.76	-42.71	-20.00	22.71	32.05	268	Horizontal
2	455.8300	-67.18	-31.69	-20.00	11.69	35.49	202	Horizontal
3	608.1200	-82.07	-42.20	-20.00	22.20	39.87	184	Horizontal
4	759.4400	-87.20	-45.12	-20.00	25.12	42.08	99	Horizontal
5	1366.6367	-37.01	-40.50	-20.00	20.50	-3.49	118	Horizontal
6	1518.2268	-34.75	-37.82	-20.00	17.82	-3.07	6	Horizontal

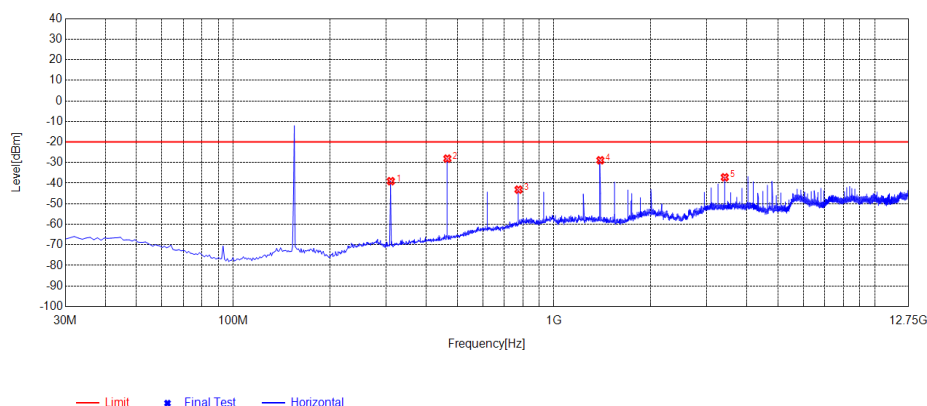
Test Mode:	CH 151.850MHz-5W- Digital	Polarity:	Vertical
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	303.5400	-73.09	-42.02	-20.00	22.02	31.07	66	Vertical
2	455.8300	-77.83	-42.06	-20.00	22.06	35.77	56	Vertical
3	608.1200	-66.24	-27.39	-20.00	7.39	38.85	360	Vertical
4	759.4400	-77.70	-36.10	-20.00	16.10	41.60	9	Vertical
5	1366.6367	-30.73	-29.46	-20.00	9.46	1.27	103	Vertical
6	1518.2268	-36.63	-34.53	-20.00	14.53	2.10	160	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

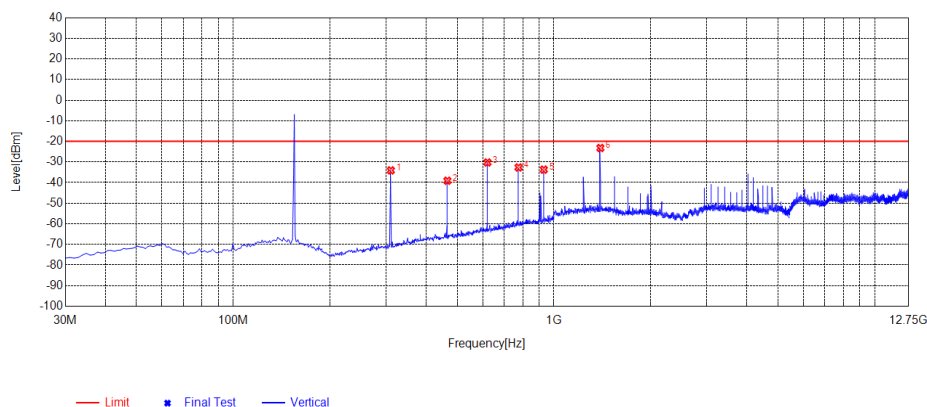


Test Mode:	CH 155.025MHz-5W- Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	310.3300	-71.25	-39.04	-20.00	19.04	32.21	222	Horizontal
2	465.5300	-63.75	-28.08	-20.00	8.08	35.67	212	Horizontal
3	775.9300	-85.78	-43.15	-20.00	23.15	42.63	315	Horizontal
4	1396.0146	-25.46	-28.89	-20.00	8.89	-3.43	156	Horizontal
5	3410.1660	-41.18	-37.16	-20.00	17.16	4.02	222	Horizontal

Test Mode:	CH 155.025MHz-5W- Digital	Polarity:	Vertical
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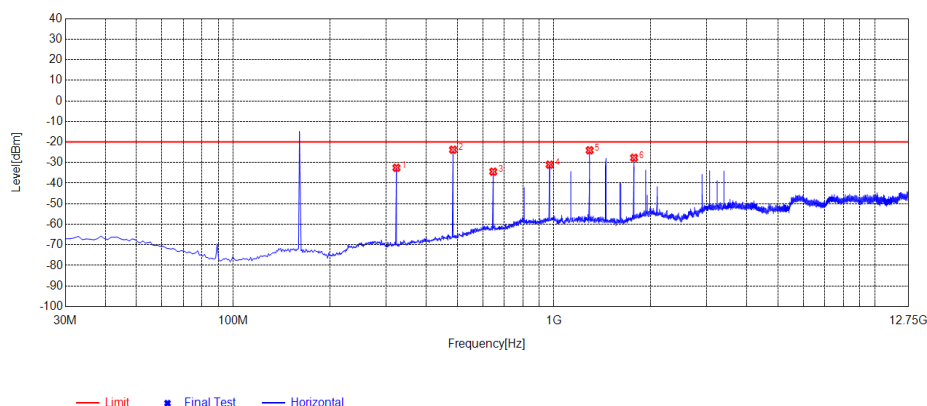


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	310.3300	-65.44	-34.09	-20.00	14.09	31.35	82	Vertical
2	465.5300	-75.01	-39.10	-20.00	19.10	35.91	45	Vertical
3	620.7300	-69.32	-30.25	-20.00	10.25	39.07	72	Vertical
4	775.9300	-74.56	-32.65	-20.00	12.65	41.91	223	Vertical
5	930.1600	-77.34	-33.72	-20.00	13.72	43.62	345	Vertical
6	1396.0146	-24.70	-23.23	-20.00	3.23	1.47	92	Vertical

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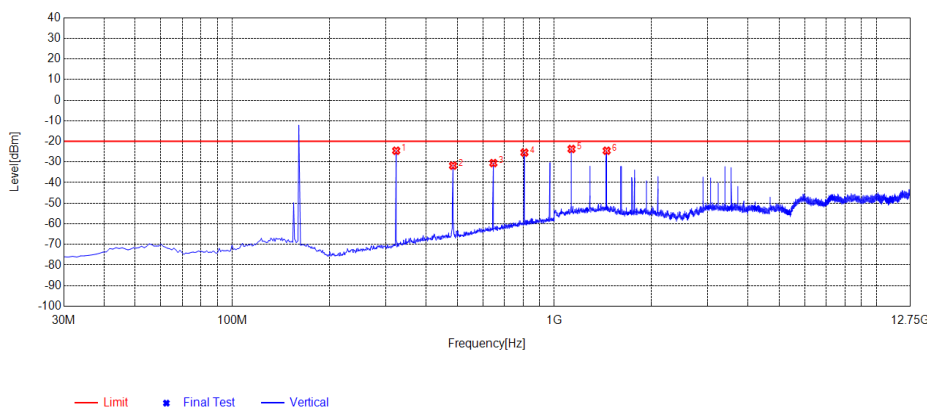


Test Mode:	CH 161.610MHz-5W- Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	322.9400	-65.06	-32.54	-20.00	12.54	32.52	213	Horizontal
2	484.9300	-59.80	-23.76	-20.00	3.76	36.04	185	Horizontal
3	646.9200	-74.41	-34.43	-20.00	14.43	39.98	306	Horizontal
4	969.9300	-75.48	-31.02	-20.00	11.02	44.46	138	Horizontal
5	1292.6043	-20.38	-24.03	-20.00	4.03	-3.65	343	Horizontal
6	1777.9278	-26.55	-27.68	-20.00	7.68	-1.13	101	Horizontal

Test Mode:	CH 161.610MHz-5W- Digital	Polarity:	Vertical
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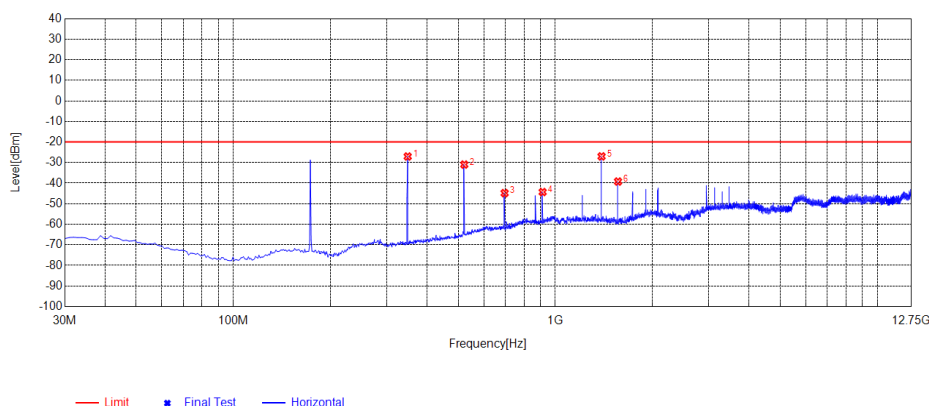


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	322.9400	-56.41	-24.55	-20.00	4.55	31.86	261	Vertical
2	484.9300	-67.95	-31.77	-20.00	11.77	36.18	129	Vertical
3	646.9200	-70.07	-30.53	-20.00	10.53	39.54	9	Vertical
4	807.9400	-67.90	-25.46	-20.00	5.46	42.44	327	Vertical
5	1131.6132	-23.42	-23.71	-20.00	3.71	-0.29	92	Vertical
6	1454.7705	-26.42	-24.56	-20.00	4.56	1.86	92	Vertical

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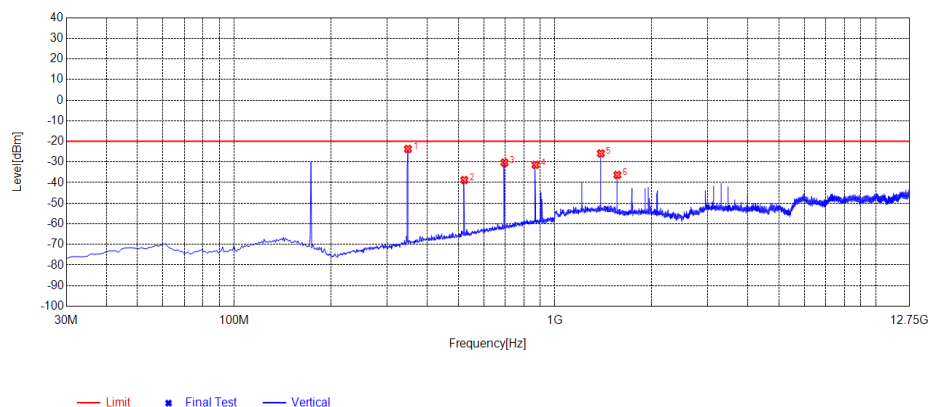


Test Mode:	CH 173.975MHz-5W - Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	348.1600	-60.18	-27.04	-20.00	7.04	33.14	220	Horizontal
2	521.7900	-68.07	-30.97	-20.00	10.97	37.10	191	Horizontal
3	696.3900	-84.96	-44.85	-20.00	24.85	40.11	266	Horizontal
4	913.6700	-87.57	-44.33	-20.00	24.33	43.24	135	Horizontal
5	1392.4892	-23.56	-27.00	-20.00	7.00	-3.44	163	Horizontal
6	1566.4066	-36.51	-39.22	-20.00	19.22	-2.71	0	Horizontal

Test Mode:	CH 173.975MHz-5W - Digital	Polarity:	Vertical
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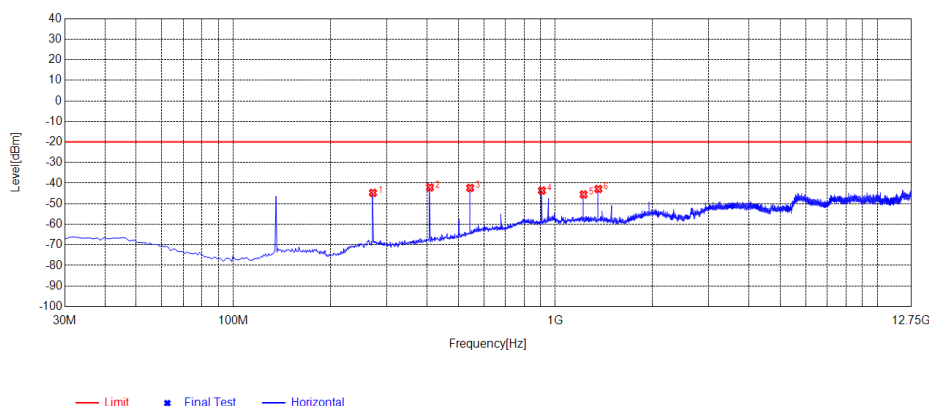


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	348.1600	-56.57	-23.68	-20.00	3.68	32.89	110	Vertical
2	521.7900	-75.64	-38.74	-20.00	18.74	36.90	129	Vertical
3	696.3900	-70.74	-30.33	-20.00	10.33	40.41	279	Vertical
4	870.0200	-74.42	-31.39	-20.00	11.39	43.03	176	Vertical
5	1391.3141	-27.29	-25.85	-20.00	5.85	1.44	82	Vertical
6	1566.4066	-38.25	-36.32	-20.00	16.32	1.93	82	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

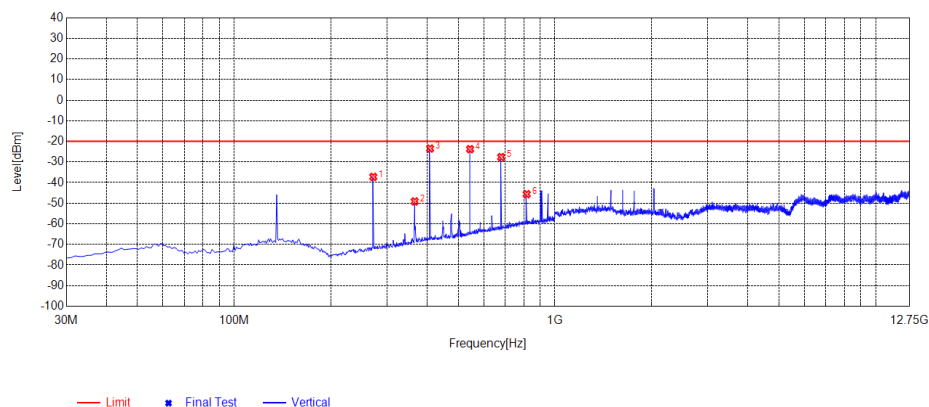


Test Mode:	CH 136.025MHz-1W - Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	271.5300	-77.77	-44.71	-20.00	24.71	33.06	51	Horizontal
2	408.3000	-76.66	-42.08	-20.00	22.08	34.58	0	Horizontal
3	544.1000	-80.21	-42.33	-20.00	22.33	37.88	126	Horizontal
4	908.8200	-86.75	-43.62	-20.00	23.62	43.13	0	Horizontal
5	1224.4474	-41.70	-45.49	-20.00	25.49	-3.79	126	Horizontal
6	1360.7611	-39.35	-42.85	-20.00	22.85	-3.50	183	Horizontal

Test Mode:	CH 136.025MHz-1W - Digital	Polarity:	Vertical
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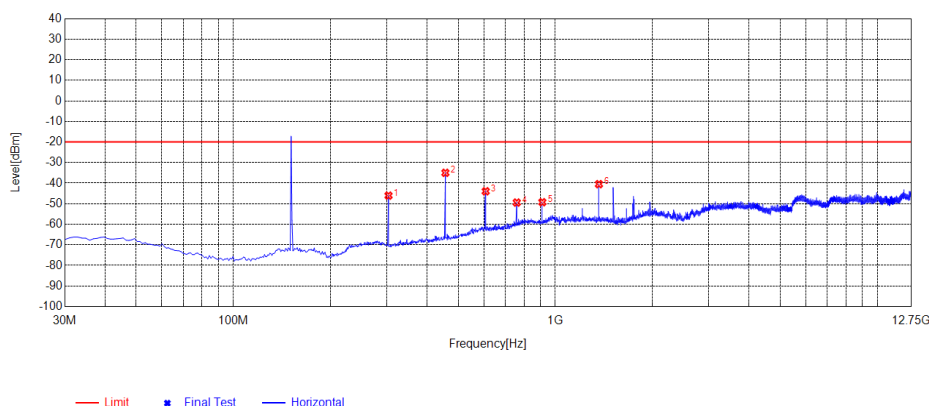


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	271.5300	-67.43	-37.25	-20.00	17.25	30.18	233	Vertical
2	365.6200	-82.73	-49.14	-20.00	29.14	33.59	353	Vertical
3	408.3000	-58.61	-23.50	-20.00	3.50	35.11	186	Vertical
4	544.1000	-61.19	-23.78	-20.00	3.78	37.41	9	Vertical
5	679.9000	-67.76	-27.64	-20.00	7.64	40.12	353	Vertical
6	816.6700	-88.16	-45.63	-20.00	25.63	42.53	167	Vertical

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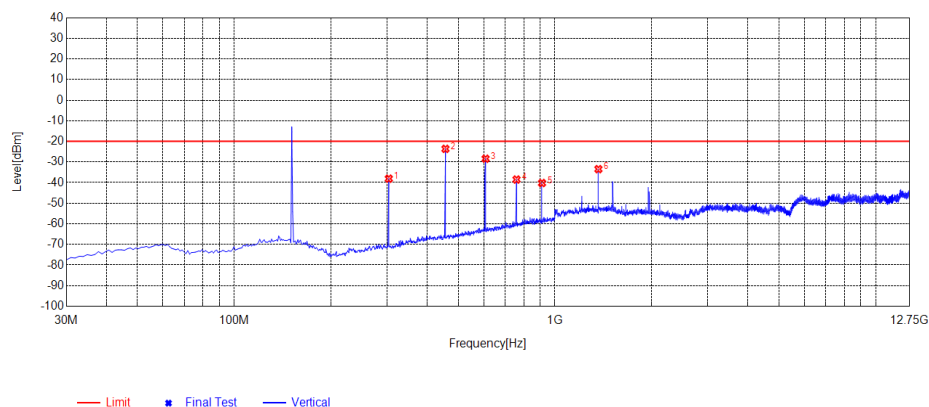


Test Mode:	CH 151.850MHz-1W - Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	303.5400	-78.10	-46.05	-20.00	26.05	32.05	184	Horizontal
2	455.8300	-70.46	-34.97	-20.00	14.97	35.49	212	Horizontal
3	608.1200	-83.82	-43.95	-20.00	23.95	39.87	137	Horizontal
4	759.4400	-91.52	-49.44	-20.00	29.44	42.08	43	Horizontal
5	911.7300	-92.46	-49.27	-20.00	29.27	43.19	240	Horizontal
6	1366.6367	-37.00	-40.49	-20.00	20.49	-3.49	351	Horizontal

Test Mode:	CH 151.850MHz-1W - Digital	Polarity:	Vertical
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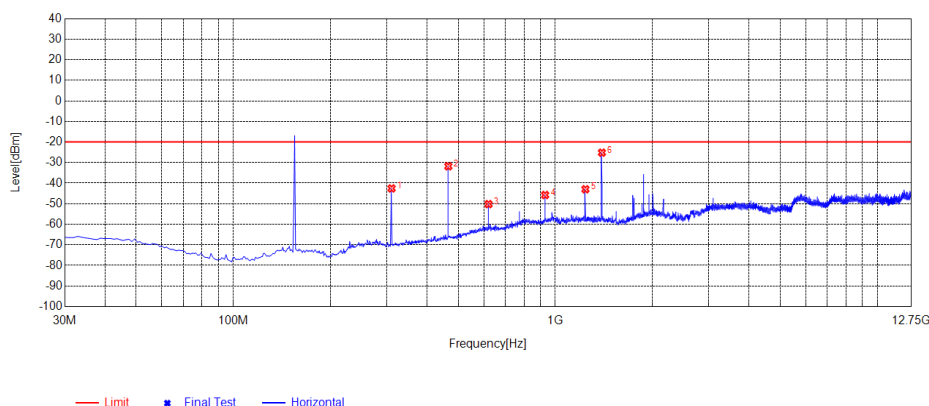


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	303.5400	-69.17	-38.10	-20.00	18.10	31.07	84	Vertical
2	455.8300	-59.41	-23.64	-20.00	3.64	35.77	338	Vertical
3	608.1200	-67.28	-28.43	-20.00	8.43	38.85	75	Vertical
4	759.4400	-80.13	-38.53	-20.00	18.53	41.60	28	Vertical
5	911.7300	-83.64	-40.21	-20.00	20.21	43.43	206	Vertical
6	1366.6367	-34.75	-33.48	-20.00	13.48	1.27	94	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

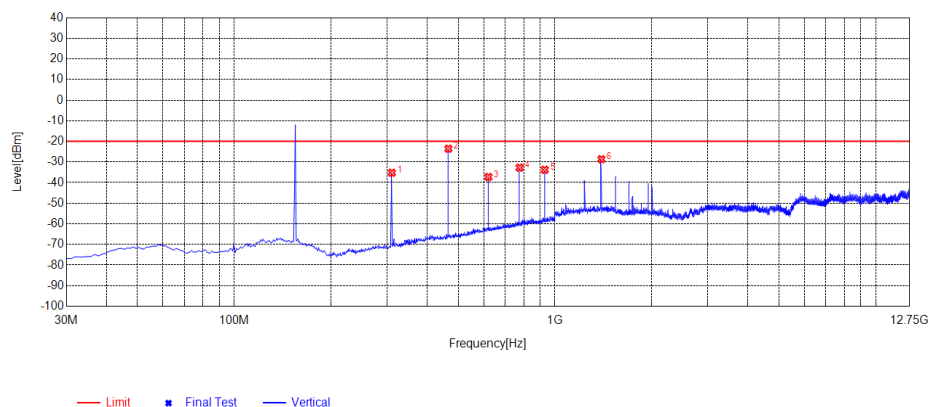


Test Mode:	CH 155.025MHz-1W - Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	310.3300	-74.77	-42.56	-20.00	22.56	32.21	181	Horizontal
2	465.5300	-67.47	-31.80	-20.00	11.80	35.67	181	Horizontal
3	620.7300	-90.10	-50.19	-20.00	30.19	39.91	134	Horizontal
4	930.1600	-89.35	-45.76	-20.00	25.76	43.59	181	Horizontal
5	1240.8991	-39.22	-42.97	-20.00	22.97	-3.75	0	Horizontal
6	1396.0146	-21.74	-25.17	-20.00	5.17	-3.43	152	Horizontal

Test Mode:	CH 155.025MHz-1W - Digital	Polarity:	Vertical
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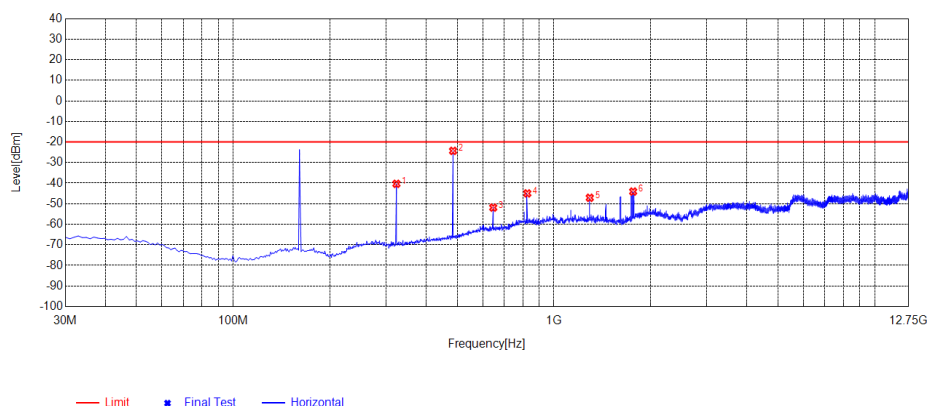


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	310.3300	-66.57	-35.22	-20.00	15.22	31.35	175	Vertical
2	465.5300	-59.48	-23.57	-20.00	3.57	35.91	9	Vertical
3	620.7300	-76.33	-37.26	-20.00	17.26	39.07	73	Vertical
4	775.9300	-74.68	-32.77	-20.00	12.77	41.91	360	Vertical
5	930.1600	-77.42	-33.80	-20.00	13.80	43.62	138	Vertical
6	1396.0146	-30.13	-28.66	-20.00	8.66	1.47	269	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

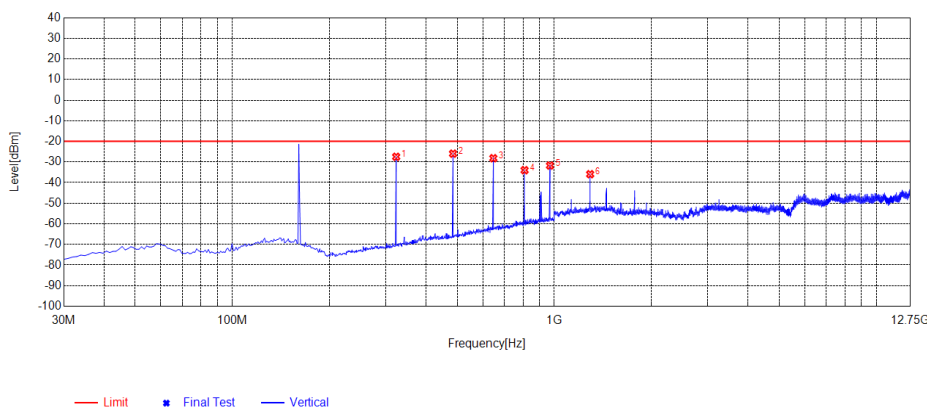


Test Mode:	CH 161.610MHz-1W - Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	322.9400	-72.85	-40.33	-20.00	20.33	32.52	222	Horizontal
2	484.9300	-60.35	-24.31	-20.00	4.31	36.04	194	Horizontal
3	646.9200	-91.88	-51.90	-20.00	31.90	39.98	194	Horizontal
4	826.3700	-88.28	-44.99	-20.00	24.99	43.29	8	Horizontal
5	1293.7794	-43.48	-47.12	-20.00	27.12	-3.64	109	Horizontal
6	1766.1766	-42.88	-44.10	-20.00	24.10	-1.22	343	Horizontal

Test Mode:	CH 161.610MHz-1W- Digital	Polarity:	Vertical
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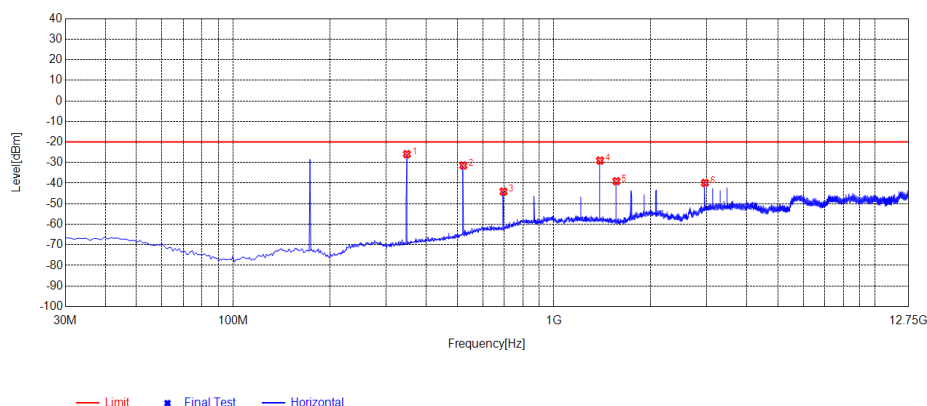


NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	322.9400	-59.36	-27.50	-20.00	7.50	31.86	64	Vertical
2	484.9300	-62.15	-25.97	-20.00	5.97	36.18	251	Vertical
3	646.9200	-67.72	-28.18	-20.00	8.18	39.54	279	Vertical
4	808.9100	-76.44	-33.99	-20.00	13.99	42.45	9	Vertical
5	969.9300	-75.75	-31.73	-20.00	11.73	44.02	92	Vertical
6	1292.6043	-36.71	-35.93	-20.00	15.93	0.78	110	Vertical

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Filing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

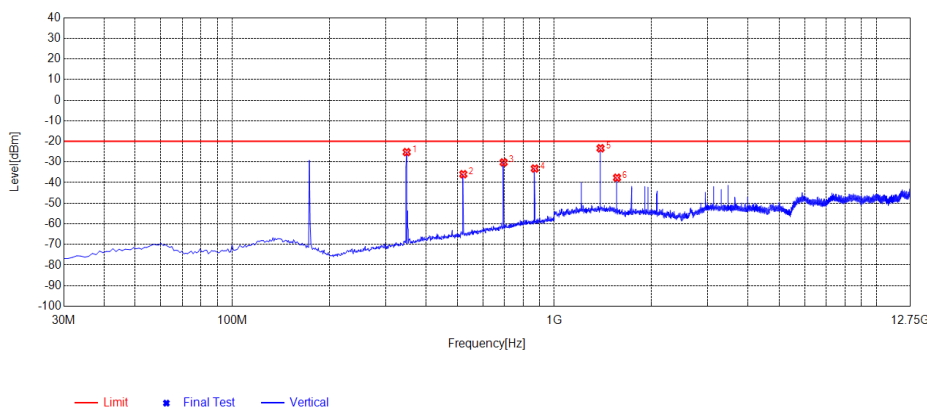


Test Mode:	CH 173.975MHz-1W - Digital	Polarity:	Horizontal
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NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	348.1600	-59.03	-25.89	-20.00	5.89	33.14	210	Horizontal
2	521.7900	-68.50	-31.40	-20.00	11.40	37.10	182	Horizontal
3	696.3900	-84.21	-44.10	-20.00	24.10	40.11	266	Horizontal
4	1392.4892	-25.58	-29.02	-20.00	9.02	-3.44	154	Horizontal
5	1566.4066	-36.35	-39.06	-20.00	19.06	-2.71	359	Horizontal
6	2957.7458	-42.77	-39.88	-20.00	19.88	2.89	154	Horizontal

Test Mode:	CH 173.975MHz-1W - Digital	Polarity:	Vertical
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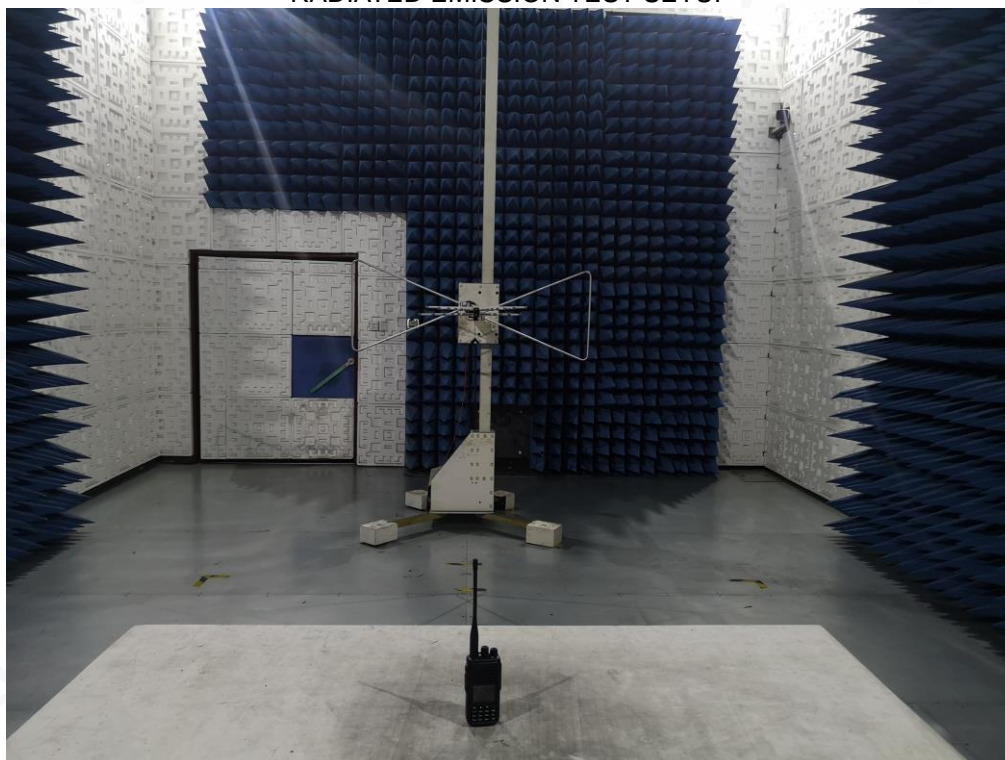
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Angle [°]	Polarity
1	348.1600	-58.11	-25.22	-20.00	5.22	32.89	178	Vertical
2	521.7900	-72.85	-35.95	-20.00	15.95	36.90	234	Vertical
3	696.3900	-70.62	-30.21	-20.00	10.21	40.41	140	Vertical
4	870.0200	-76.22	-33.19	-20.00	13.19	43.03	84	Vertical
5	1392.4892	-24.80	-23.35	-20.00	3.35	1.45	84	Vertical
6	1566.4066	-39.58	-37.65	-20.00	17.65	1.93	75	Vertical

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APPENDIX I: PHOTOGRAPHS OF TEST SETUP

RADIATED EMISSION TEST SETUP



RADIATED EMISSION ABOVE 1G TEST SETUP



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APPENDIX II: PHOTOGRAPHS OF TEST EUT

ALL VIEW OF SERIAES MODEL



ALL VIEW OF SERIES MODEL-BACK VIEW



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WHOLE VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



OPEN VIEW-1 OF EUT



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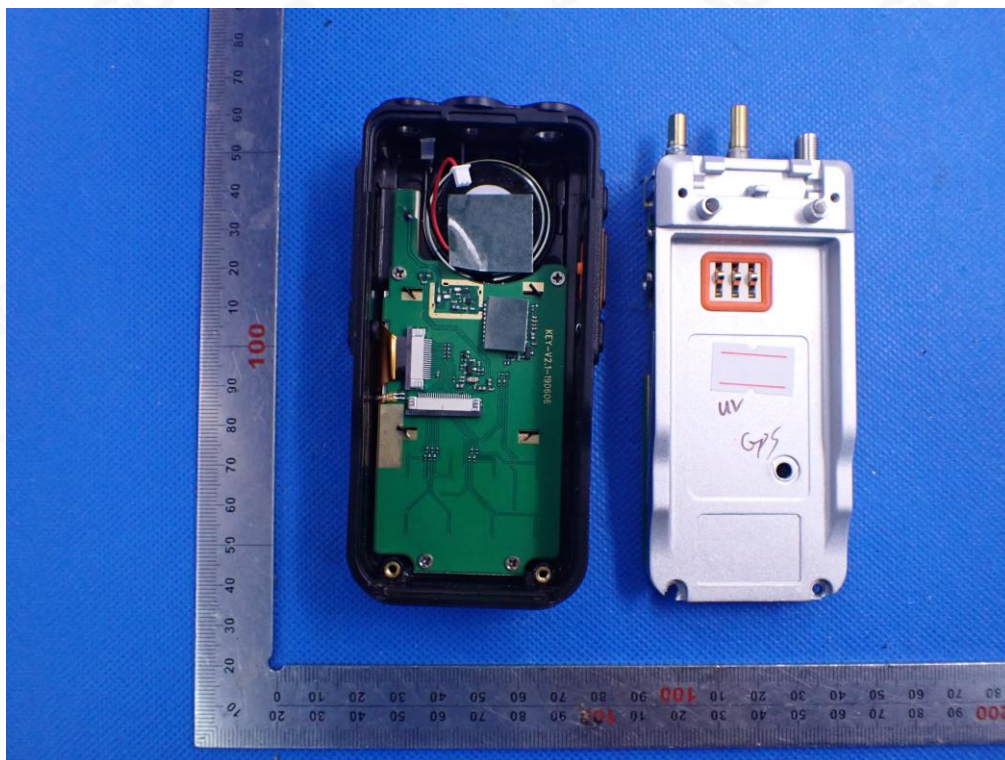
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OPEN VIEW-2 OF EUT



OPEN VIEW-3 OF EUT

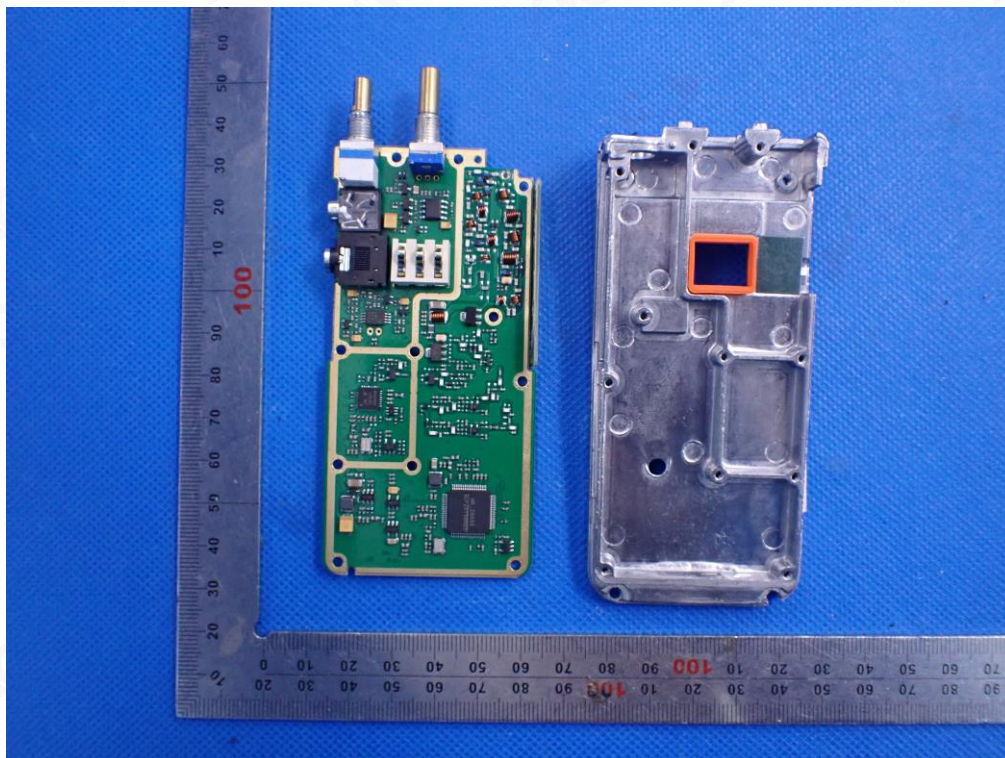


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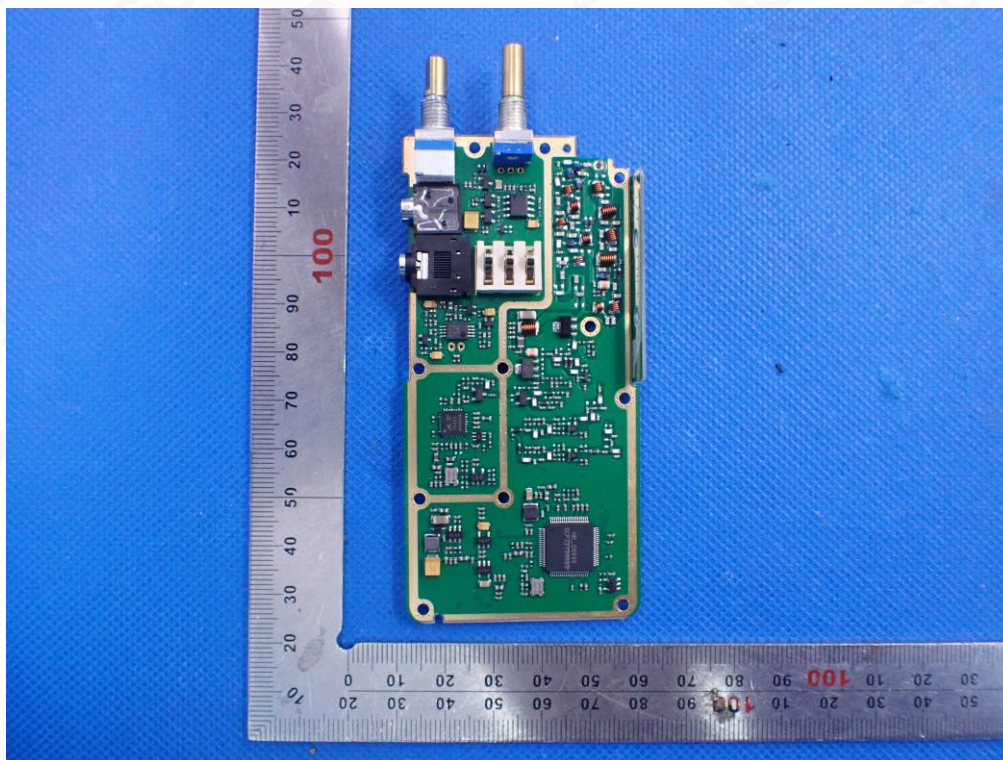
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OPEN VIEW-4 OF EUT



INTERNAL VIEW-1 OF EUT

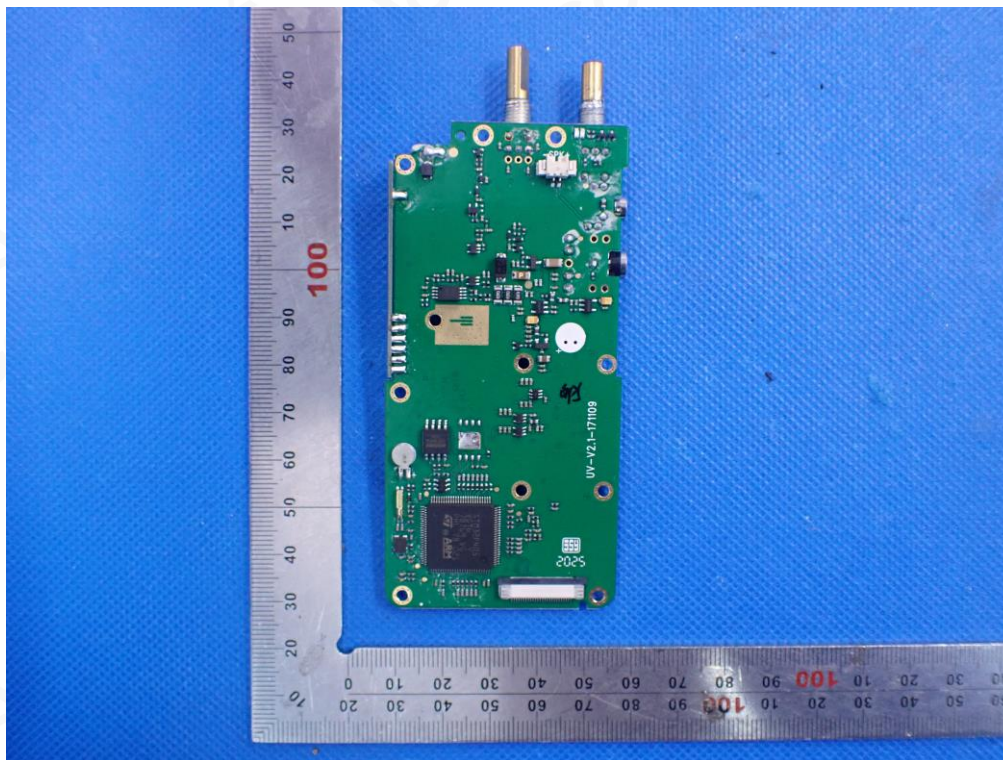


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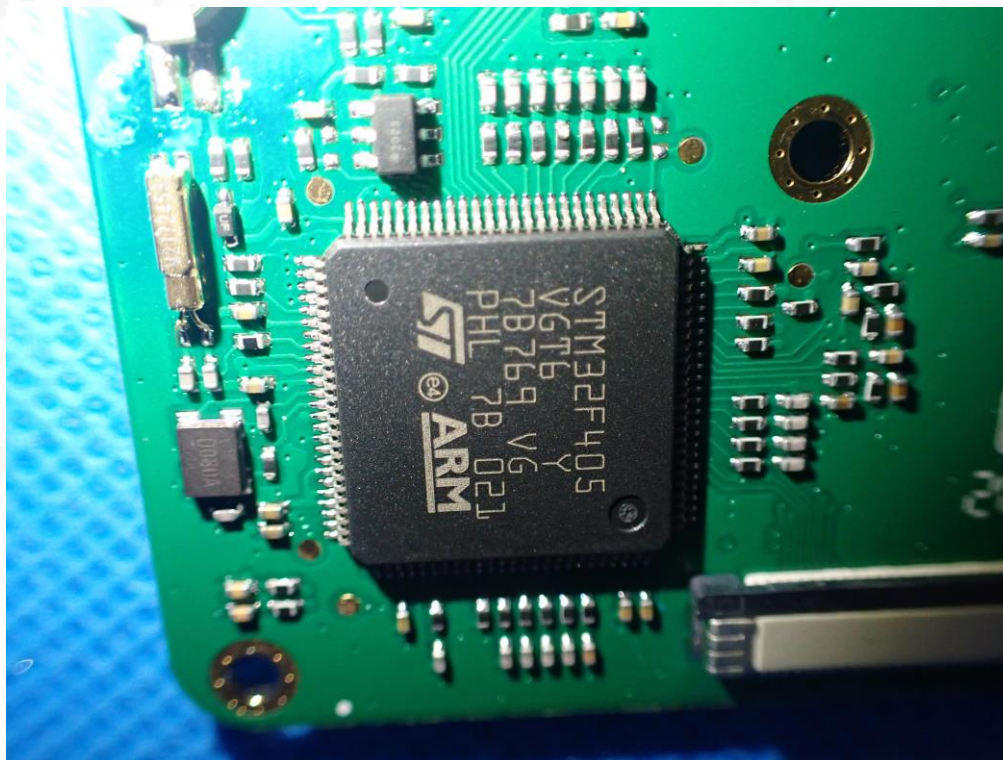
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INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT

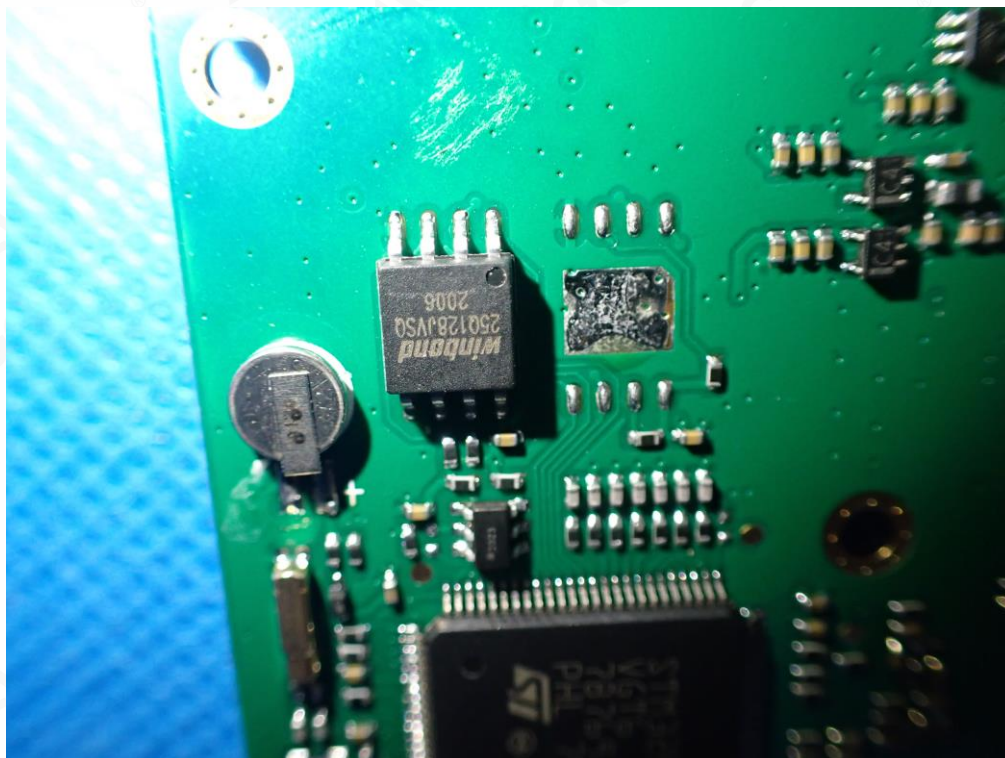


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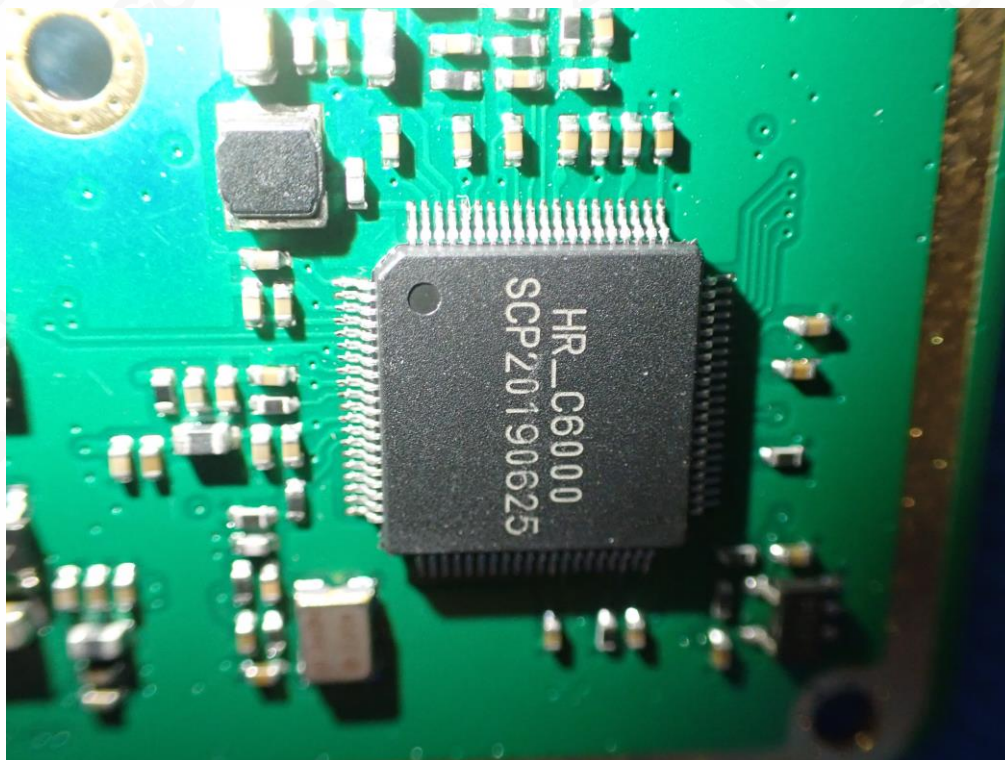
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INTERNAL VIEW-5 OF EUT



INTERNAL VIEW-6 OF EUT

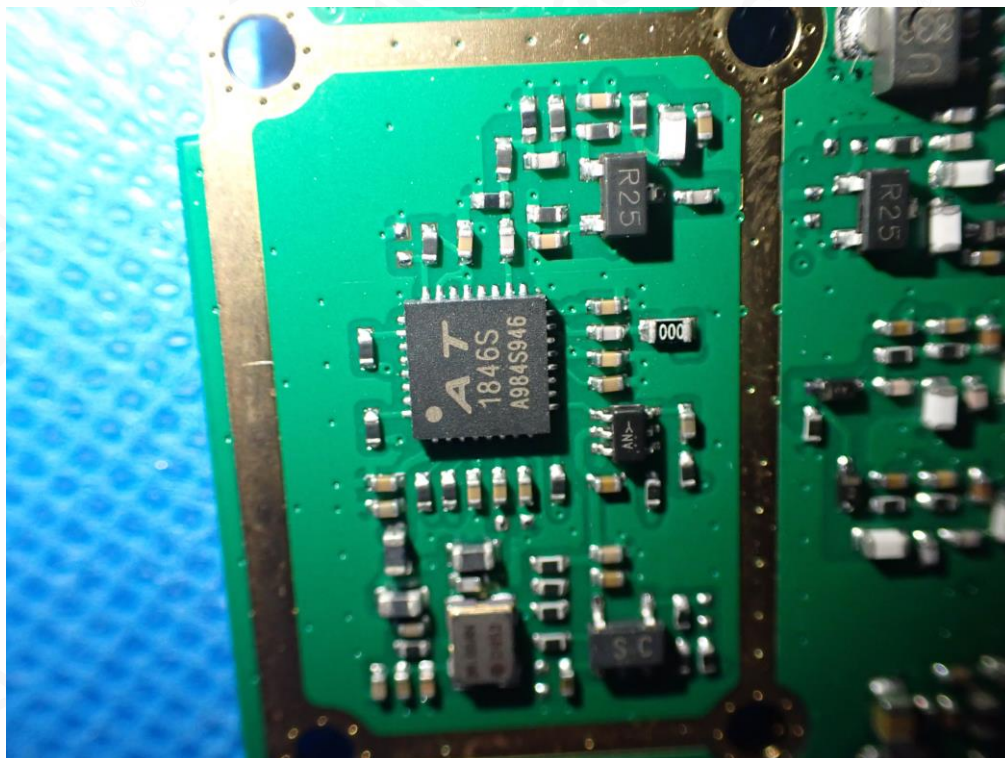


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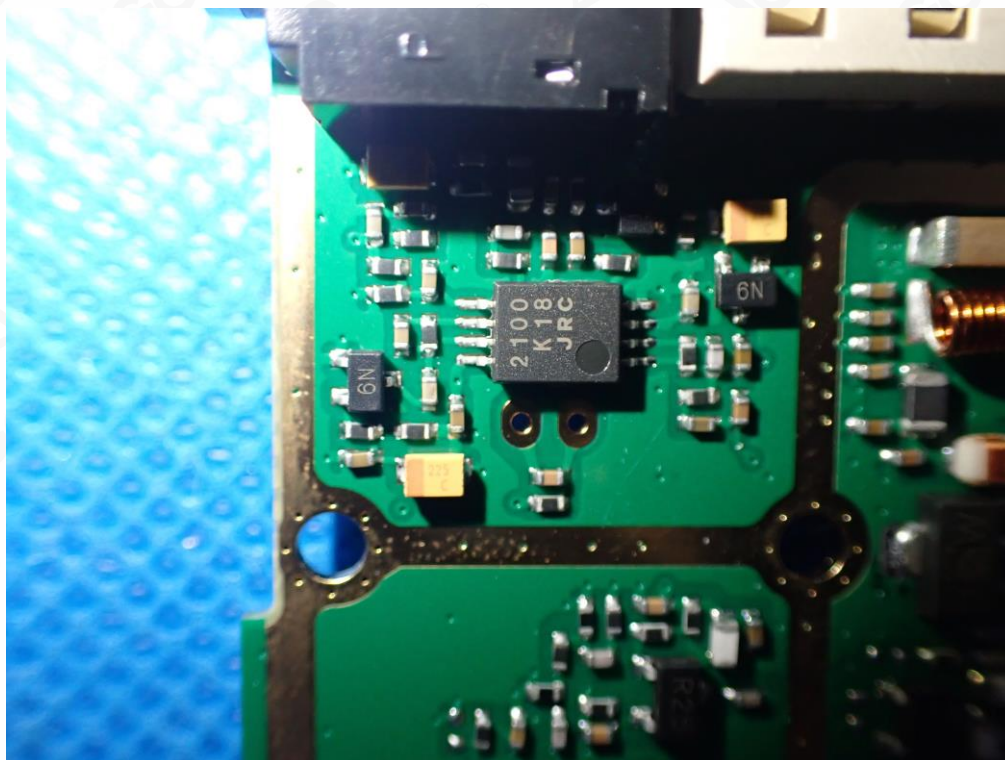
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INTERNAL VIEW-7 OF EUT



INTERNAL VIEW-8 OF EUT

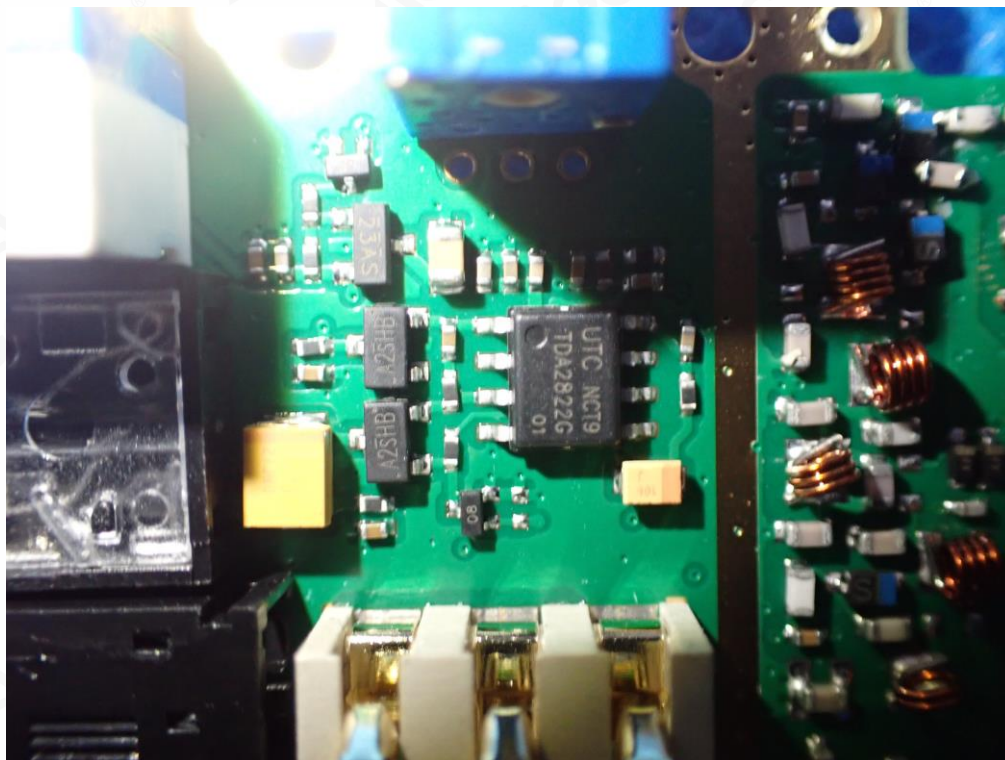


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INTERNAL VIEW-9 OF EUT



OPEN VIEW-5 OF EUT

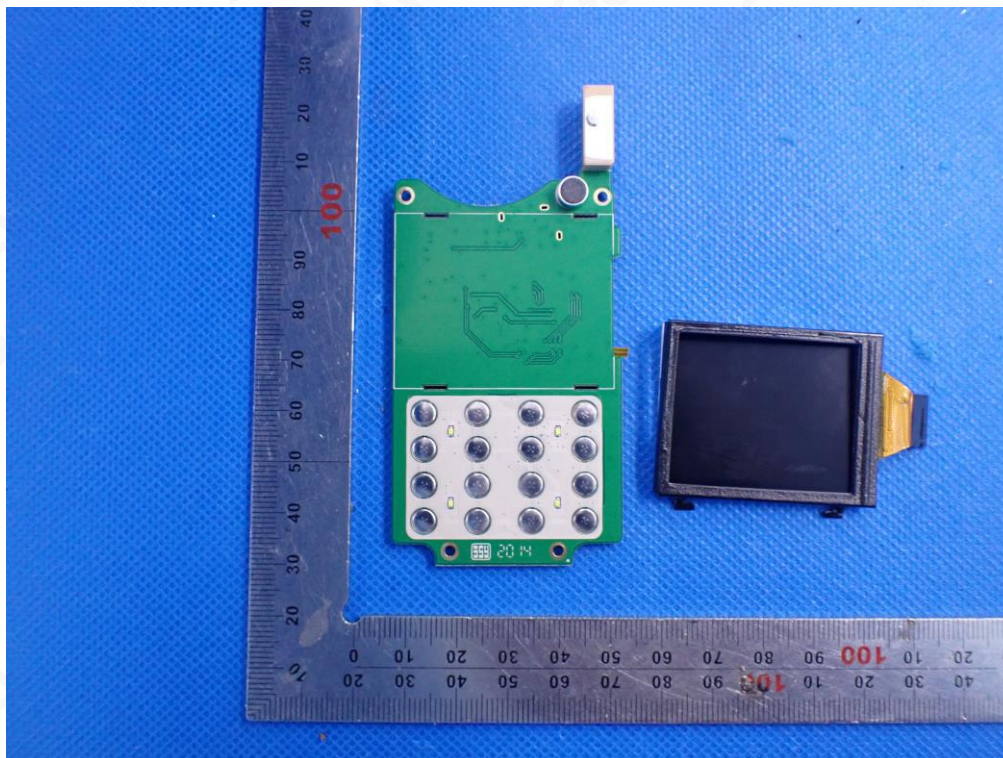


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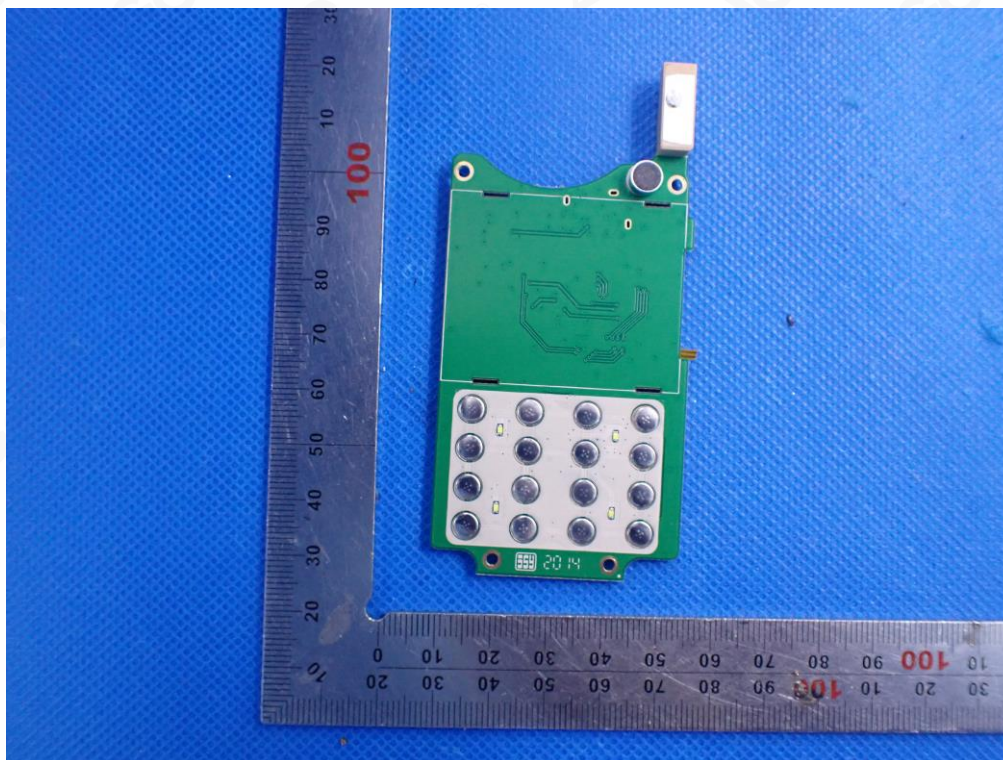
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INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT

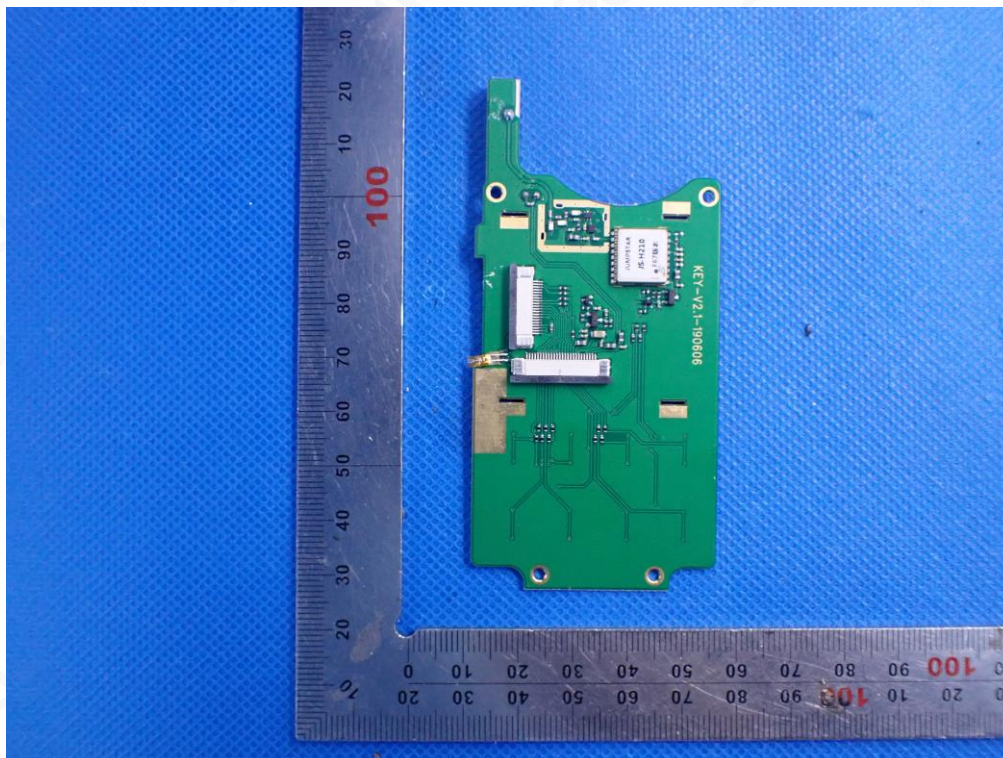


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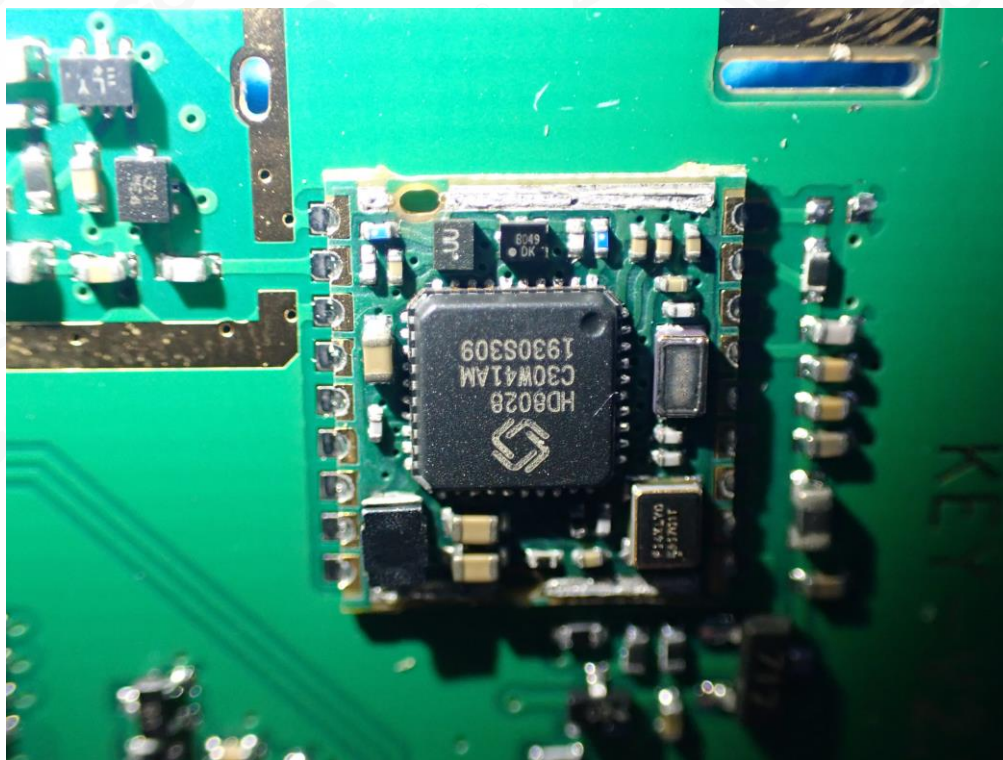
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INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT



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The model name of MD-UV380

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



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OPEN VIEW-1 OF EUT



OPEN VIEW-2 OF EUT

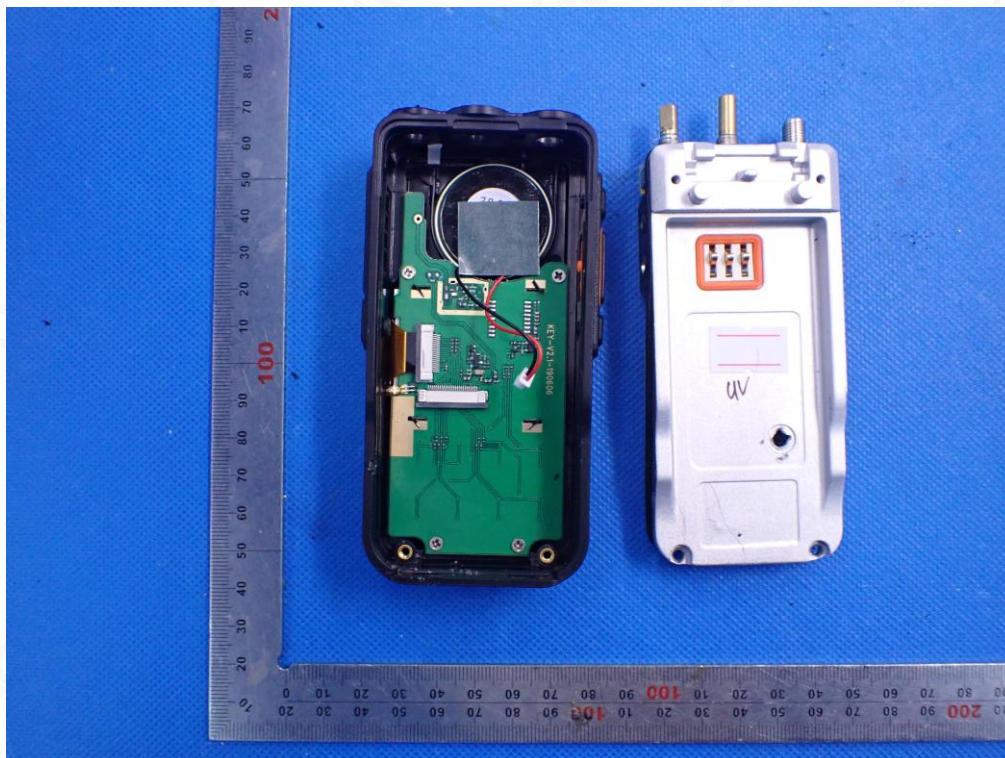


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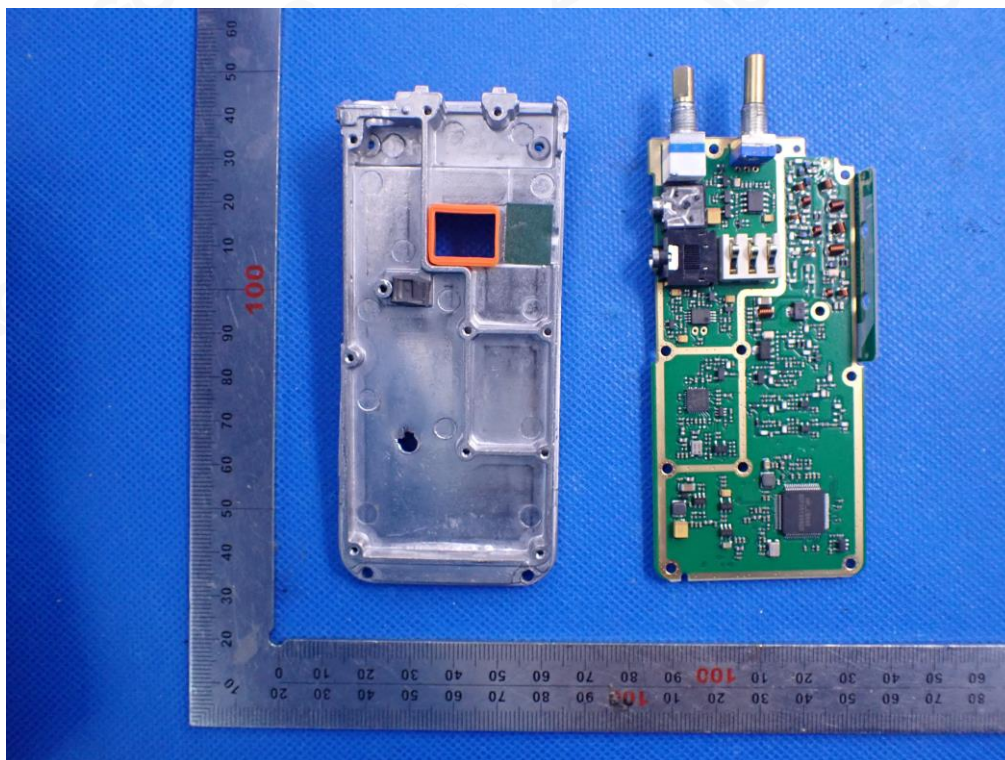
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OPEN VIEW-3 OF EUT



OPEN VIEW-4 OF EUT

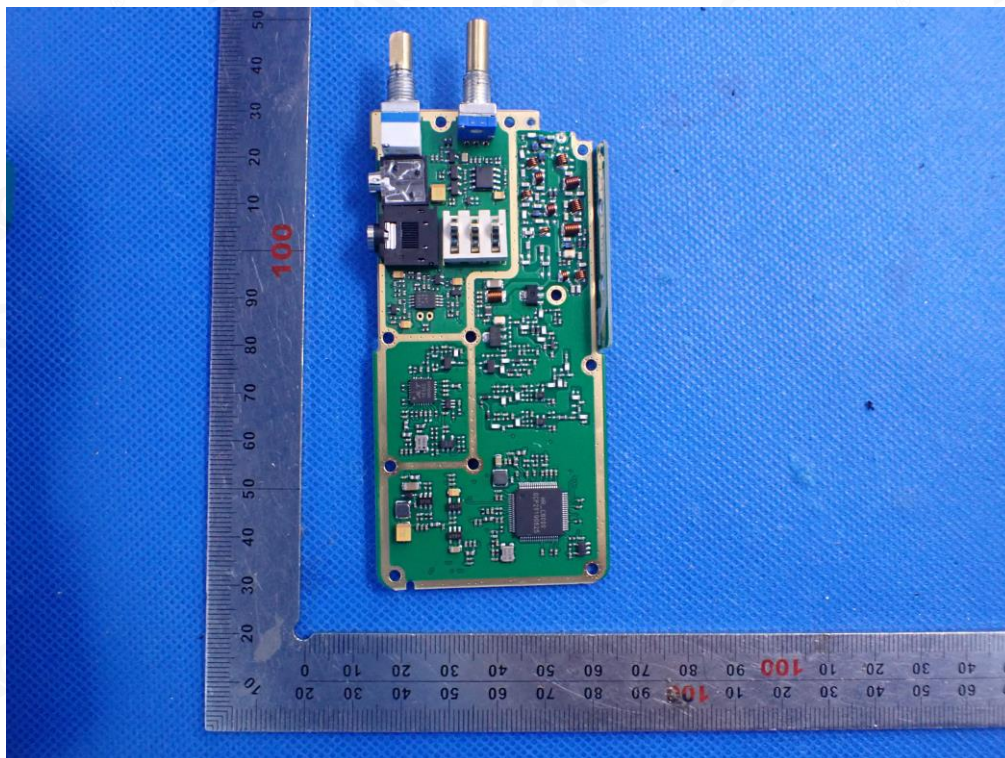


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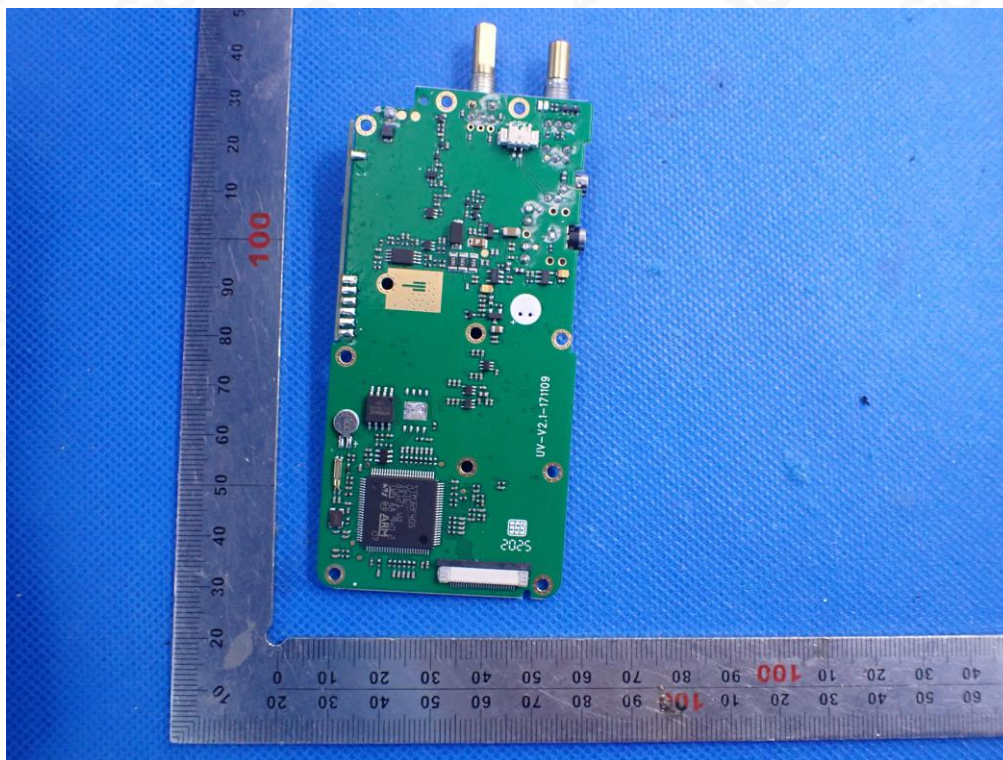
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INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT

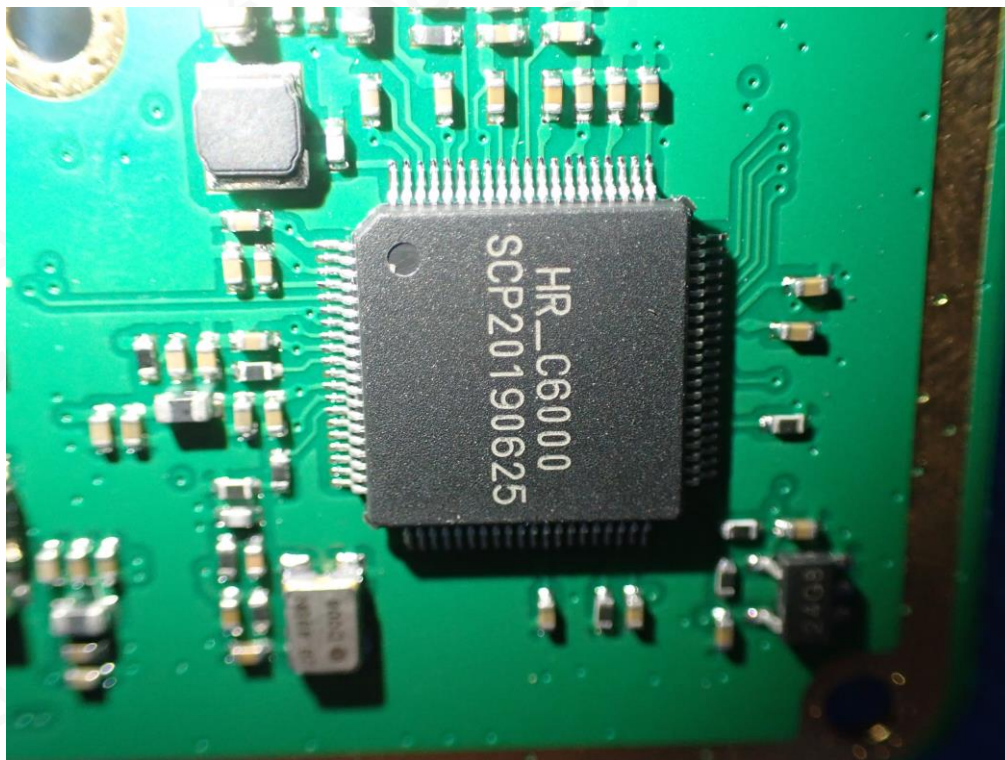


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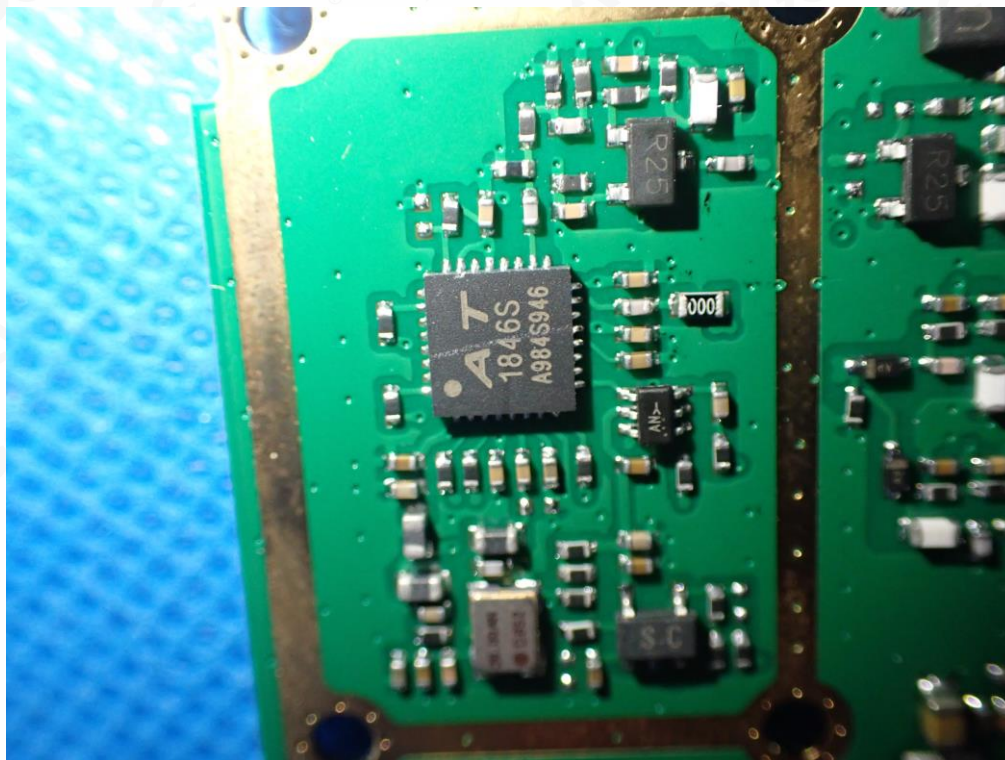
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INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT

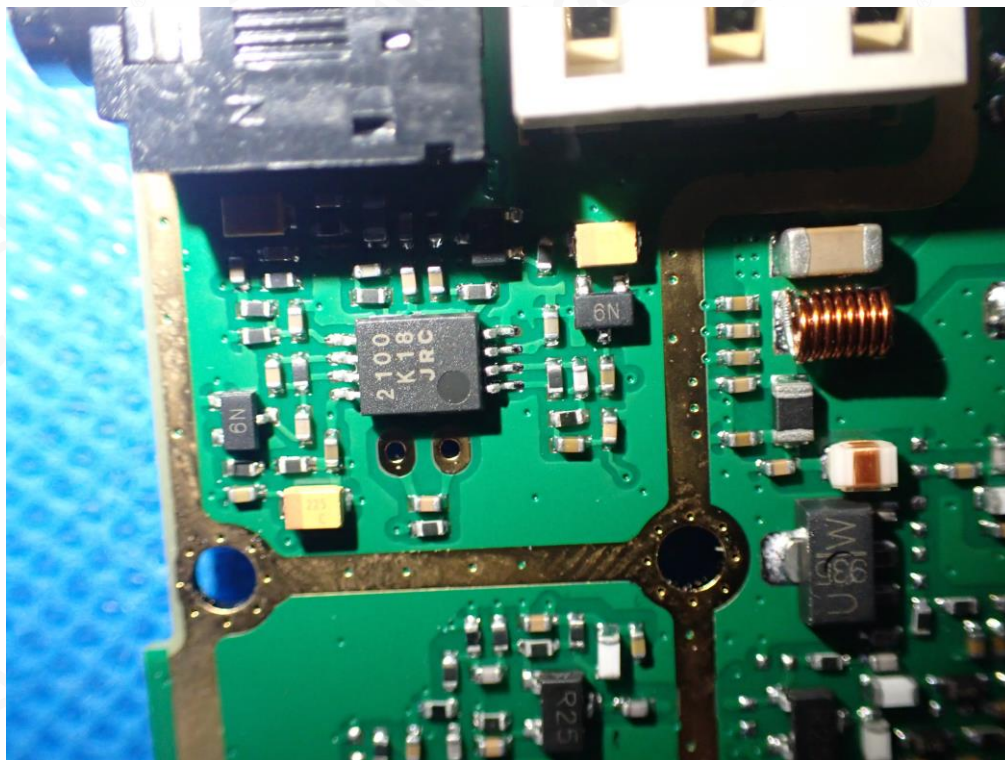


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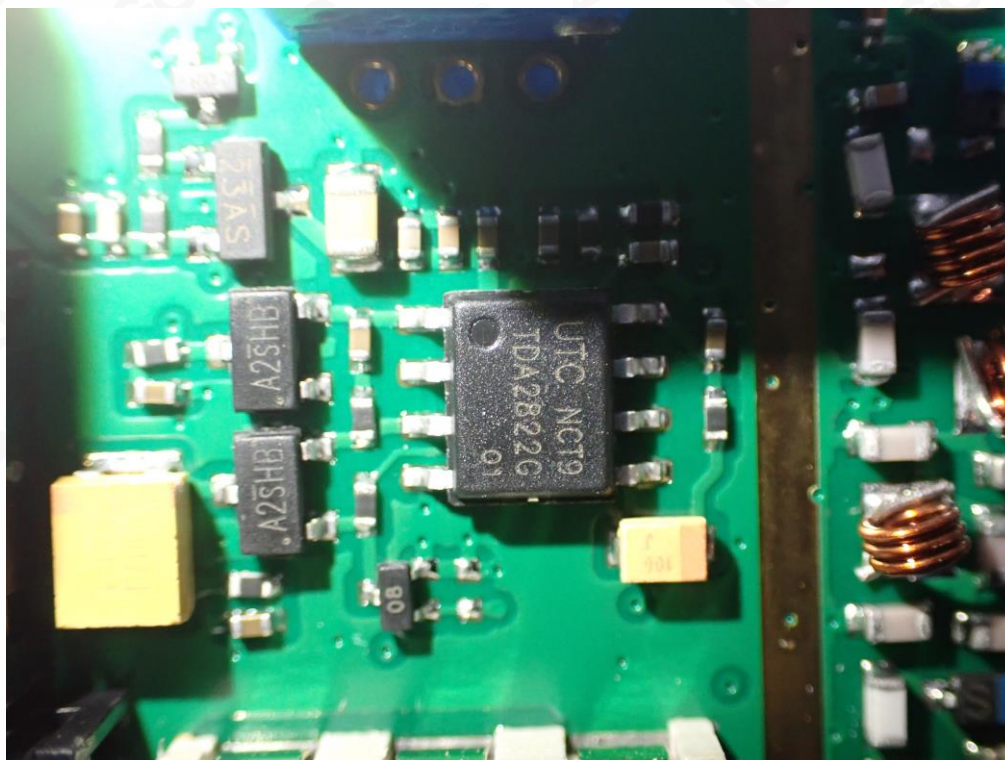
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INTERNAL VIEW-5 OF EUT



INTERNAL VIEW-6 OF EUT

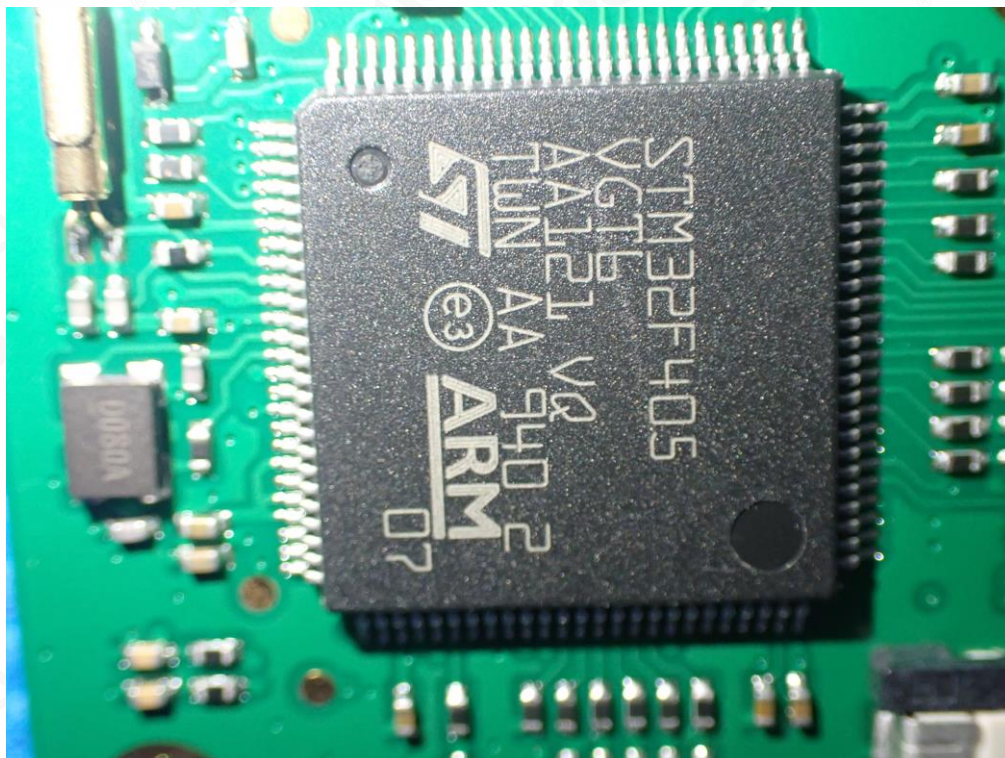


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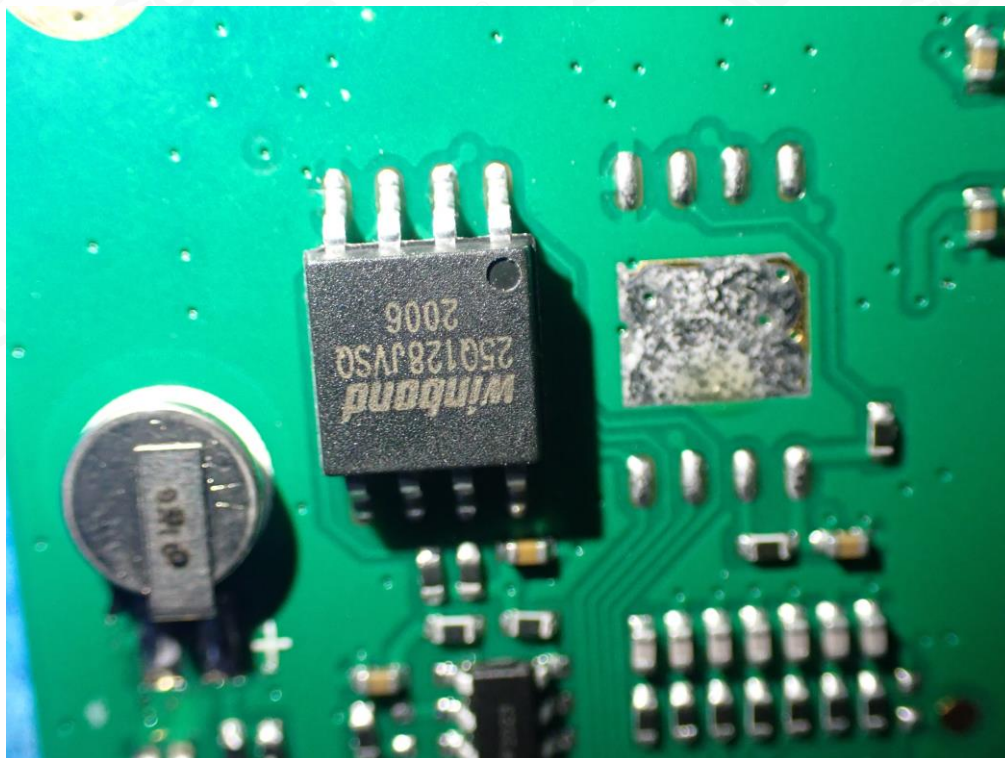
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INTERNAL VIEW-7 OF EUT



INTERNAL VIEW-8 OF EUT



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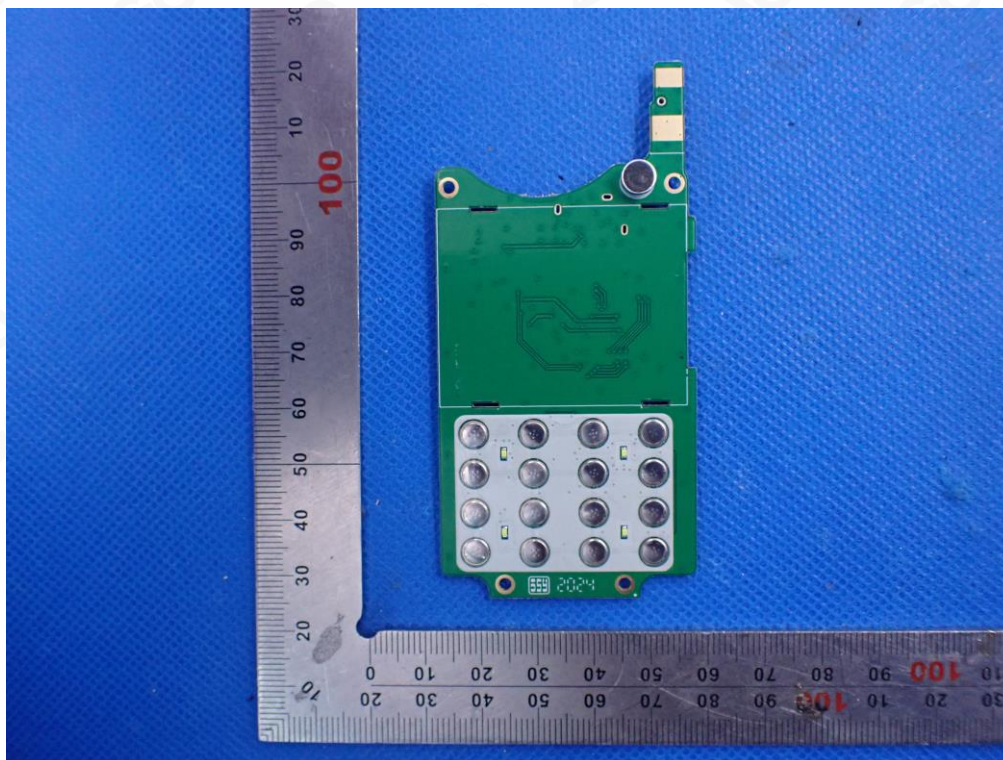
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OPEN VIEW-5 OF EUT



INTERNAL VIEW-1 OF EUT

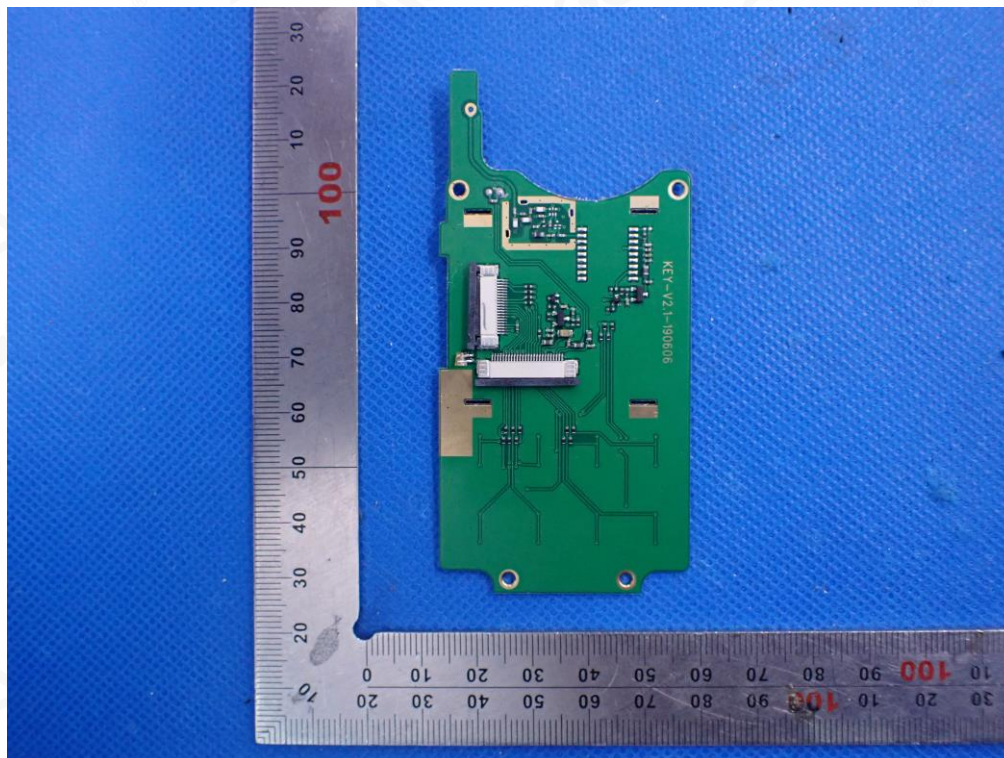


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INTERNAL VIEW-2 OF EUT



-----END OF REPORT-----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the AGC “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

