



TEST REPORT

Application No.:

GZCR2108020863AT(SGS SZ No.: T52110270116EM)

Applicant:

Bioniwings (Shenzhen) Technology Co., Ltd.

Address of Applicant:

201 of No.1 Factory, 32nd of First Huimin Road, Guihua Community, Guanlan Blvd, Shenzhen, China

Manufacturer:

Bioniwings (Shenzhen) Technology Co., Ltd.

Address of Manufacturer:

201 of No.1 Factory, 32nd of First Huimin Road, Guihua Community, Guanlan Blvd, Shenzhen, China

Buyer:

Hammacher Schlemmer, Amazon

Supplier:

Bioniwings (Shenzhen) Technology Co., Ltd.

Equipment Under Test (EUT):

EUT Name: Wireless Remote Controller

Model No.: Remote: FYC 1010, FYC 1020, FYC 1030, FYC 1040, FYC 1050, FYC 1060, FYC 1070, FYC 1080, FYC 1090

♣

Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Ref. No.:

Remote: FYC 1010

Requested Age Grading:

14+

Country of Origin:

China

Country of Destination:

USA

Standard(s) :

47 CFR Part 15, Subpart C 15.249

Date of Receipt:

2021-08-28

Date of Test:

2021-09-01 to 2021-09-06

Date of Issue:

2021-09-08

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian

EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-09-08		Original

Authorized for issue by			
		Curry Wu/Project Engineer	
		Ricky Liu/Reviewer	

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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass
Field Strength of the Fundamental Signal (15.249(a))		ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Radiated Emissions		ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

Declaration of EUT Family Grouping:

Model No.: Remote: FYC 1010, FYC 1020, FYC 1030, FYC 1040, FYC 1050, FYC 1060, FYC 1070, FYC 1080, FYC 1090

Only the model FYC 1010 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on color, decoration and model No..

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4 General Information

4.1 Details of E.U.T.

Power supply: 3V DC(1.5V x 2 "AAA" Size Batteries) for for remote controller
 Operation Frequency: 2410.95MHz to 2468.95MHz
 Modulation Type: GFSK
 Number of Channels: 30
 Sample Type: Portable production
 Antenna Type: Integral
 Antenna Gain: 2.5dBi

Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410.95	11	2430.95	21	2450.95
2	2412.95	12	2432.95	22	2452.95
3	2414.95	13	2434.95	23	2454.95
4	2416.95	14	2436.95	24	2456.95
5	2418.95	15	2438.95	25	2458.95
6	2420.95	16	2440.95	26	2460.95
7	2422.95	17	2442.95	27	2462.95
8	2424.95	18	2444.95	28	2464.95
9	2426.95	19	2446.95	29	2466.95
10	2428.95	20	2448.95	30	2468.95

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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The EUT has been tested as an independent unit.

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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
20dB Bandwidth	± 3%
Field Strength of the Fundamental Signal (15.249(a))	5.08dB (1GHz-6GHz); 5.14dB (above 6GHz)
Restricted Band Around Fundamental Frequency	5.06dB (30MHz-1GHz ; 3m) 5.08dB (1GHz-6GHz); 5.14dB (above 6GHz)
Radiated Emissions (below 1GHz)	5.06dB (30MHz-1GHz ; 3m)
Radiated Emissions (above 1GHz)	5.08dB (1GHz-6GHz); 5.14dB (above 6GHz)
Remark:	<p>The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results</p> <ul style="list-style-type: none">– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.5 Test Facility

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

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IEC60068-2-27 and Rules of procedure IEC60068-2-27, and the relevant IEC60068-2-27 CB-Scheme Operational documents.

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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

20 dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2020-09-17	2021-09-16
6dB Attenuator	HP	8491A	EMC2062	2020-04-15	2022-04-14
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS-EMC	0.8M	EMC2136	2019-11-02	2021-11-01
MI CABLE	SGS-EMC	0.8M	EMC2137	2019-11-02	2021-11-01

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKG-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(20Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
Chamber cable(Above 1GHz)	Scoflex	KMKG-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16



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Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Notch Filter (5150-5880)	Mico-Tronics	BRM50716	EMC2168	2021-07-29	2022-07-28
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27
Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	EMC2172	2020-09-09	2021-09-08

Radiated Emissions (below 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EMI Test Receiver(10Hz-26.5GHz)	Rohde & Schwarz	ESIB26	EMC0522	2021-01-08	2022-01-07
EMI Test Receiver(9kHz-3GHz)	Rohde & Schwarz	ESCI	EMC0056	2021-01-03	2022-01-02
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
Trilog Broadband Antenna(25MHz-1GHz)-On Site	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	EMC2174	2019-08-08	2022-08-07
Trilog Broadband Antenna(25MHz-1GHz)-Lab	SCHWARZBECK MESS-ELEKTRONIK	VULB 9168	SEM003-18	2019-02-22	2022-02-22
Amplifier(9kHz-1.3GHz)	HP	8447F	EMC2065	2021-05-19	2022-05-18
Active Loop Antenna-RED	ETS-Lindgren	6502	EMC2190	2019-12-27	2021-12-26
High Pass Filter (915MHz)	FSY MICROWAVE	HM1465-9SS	EMC2079	2021-01-08	2022-01-07
10m Semi-Anechoic Chamber	ETS	N/A	EMC0530	2019-10-20	2022-10-19
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

Radiated Emissions (above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable(Above 1GHz)	Scoflex	KMKG-8.0m	EMC0545	2020-09-09	2022-09-08
Horn Antenna(1GHz-18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120D	EMC2026	2019-09-25	2022-09-24
1GHz-26.5 GHz Pre-Amplifier	Agilent	8449B	EMC0521	2021-01-08	2022-01-07
2.4GHz Filter	Micro-Tronics	BRM 50702	EMC2069	2021-01-08	2022-01-07
966 Anechoic Chamber	C.R.T	9m x 6m x 6m	EMC2142	2020-12-20	2023-12-19
MXE EMI Receiver(10Hz-8.4GHz)	Keysight	N9038A	EMC2139	2020-11-13	2021-11-12

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EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2020-09-17	2021-09-16
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A

General used equipment

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DMM	Fluke	73	EMC0006	2021-07-05	2022-07-05
DMM	Fluke	73	EMC0007	2021-07-05	2022-07-05

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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.1.2 Conclusion

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.5dBi.

Antenna location: Refer to Internal photos



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215

Test Method: ANSI C63.10 (2013) Section 6.9

Limit: N/A

7.1.1 E.U.T. Operation

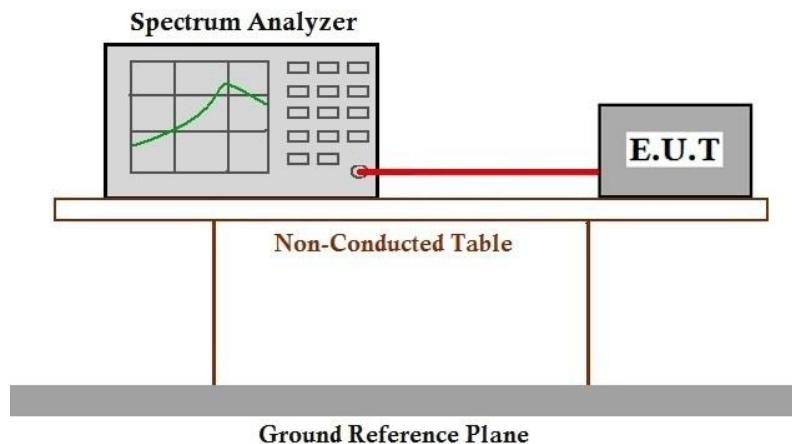
Operating Environment:

Temperature: 25.6 °C Humidity: 52.4 % RH Atmospheric Pressure: 1008 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode / Code	Description
Final test	01	TX mode _Keep the EUT(remote controller) in transmitting with modulation mode.

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	0.5656	Pass
Middle	0.5708	Pass
Highest	0.5685	Pass

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Test Mode: 01



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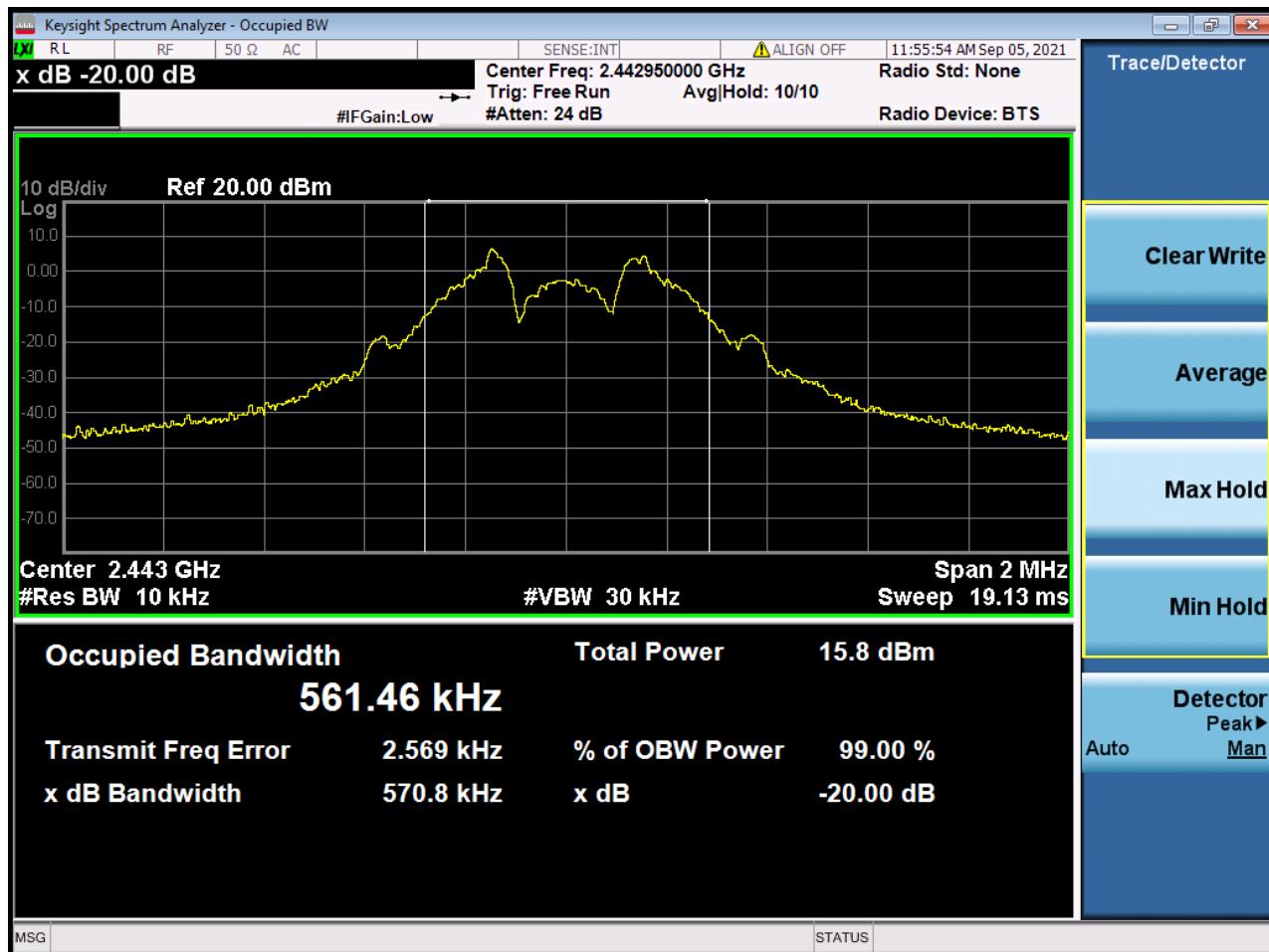
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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)

Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

Average value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =1.5ms
	T period =100ms
	Duty cycle=1.5%
	PDCF value= -36.48dB

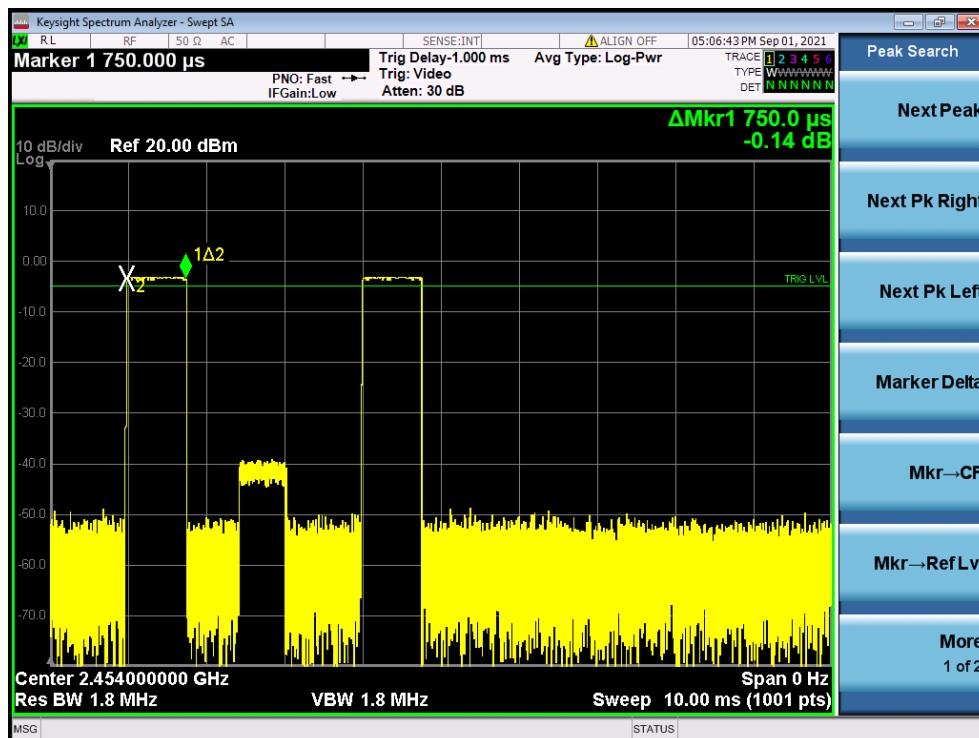
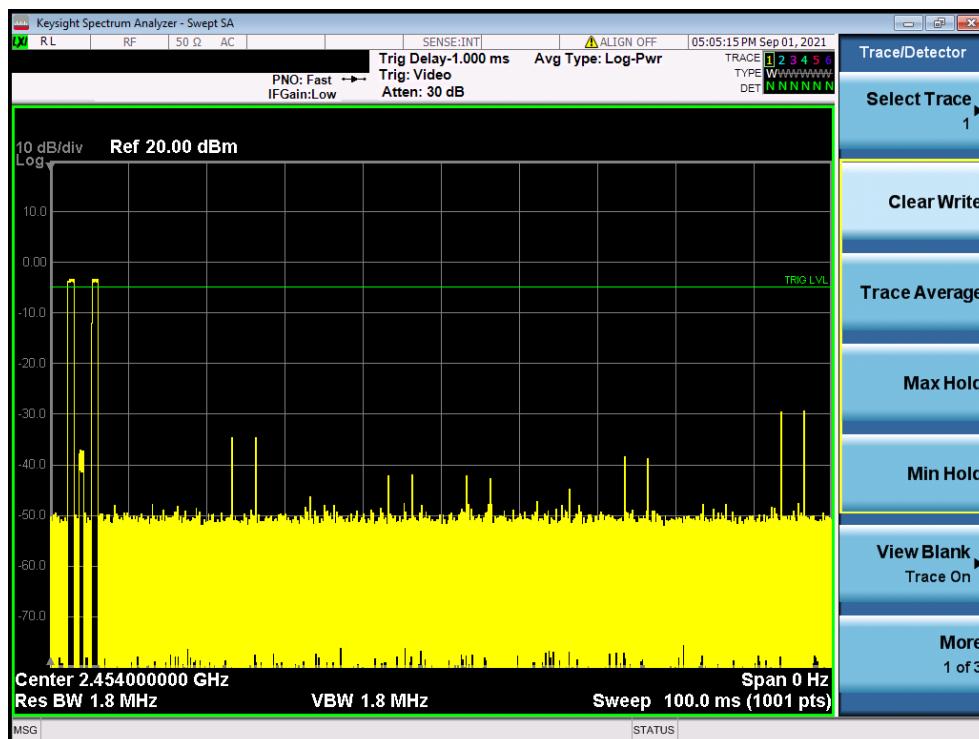
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7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C

Humidity: 52.5 % RH

Atmospheric Pressure: 1008 mbar



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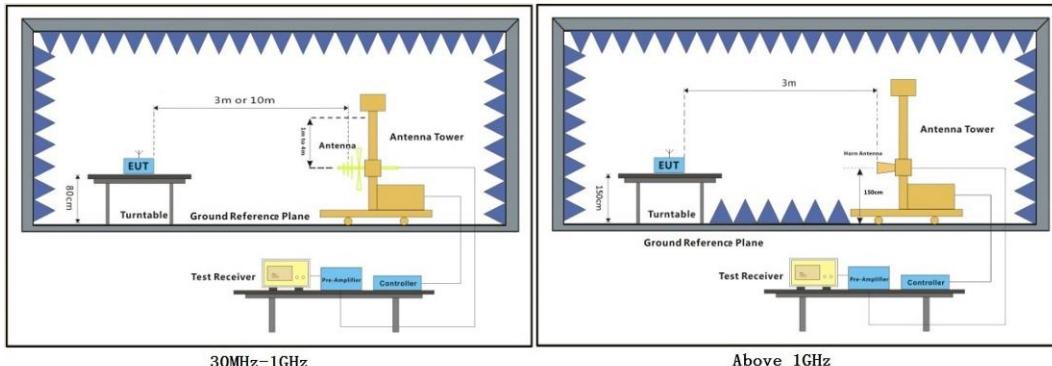
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7.2.2 Test Mode Description

Pre-scan / Mode	Mode	Description
Final test	Code	
Final test	01	TX mode_Keep the EUT(remote controller) in transmitting with modulation mode.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

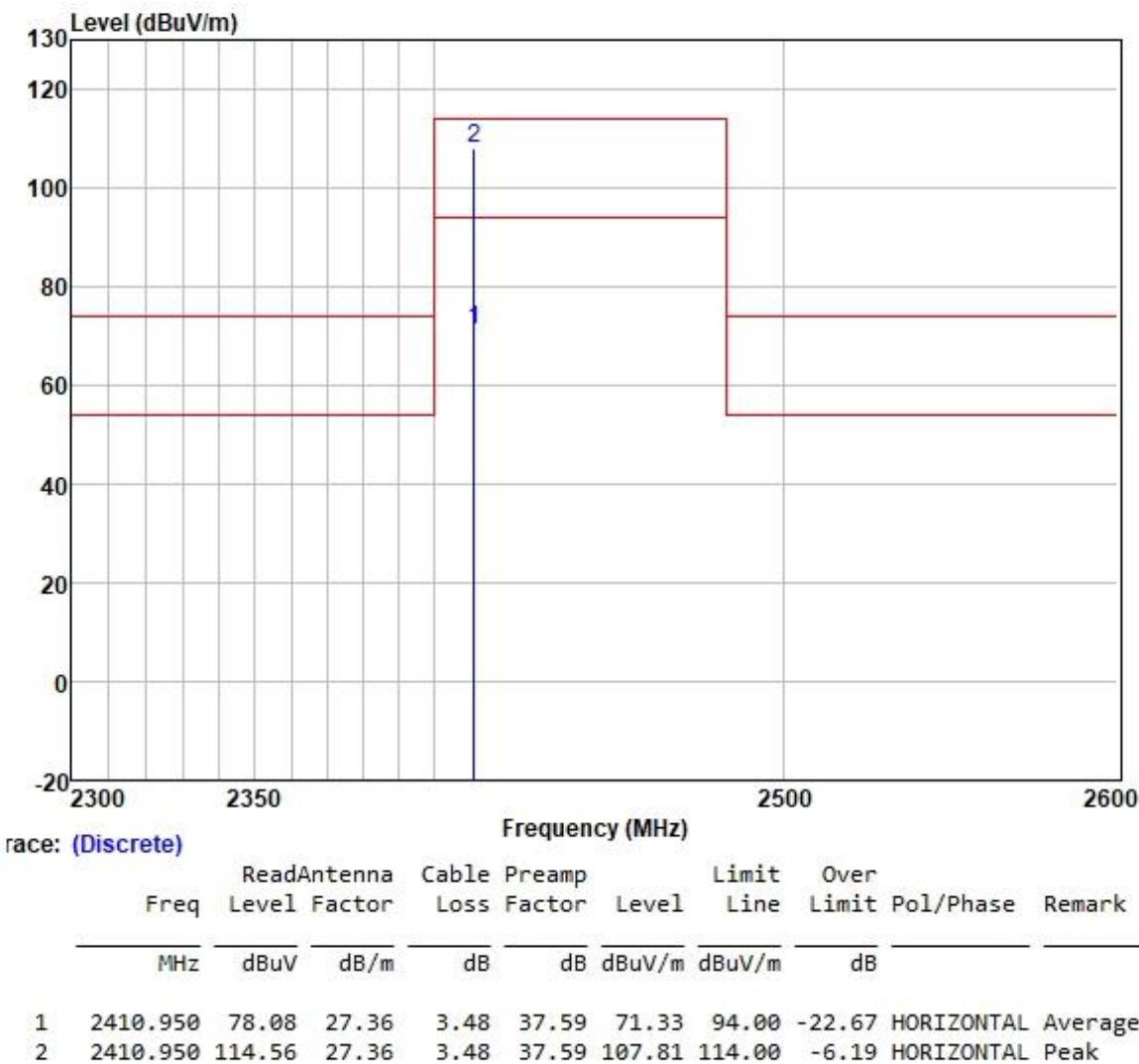
Remark 2: Antenna: 3 denotes the type of antenna for above 1000MHz.



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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



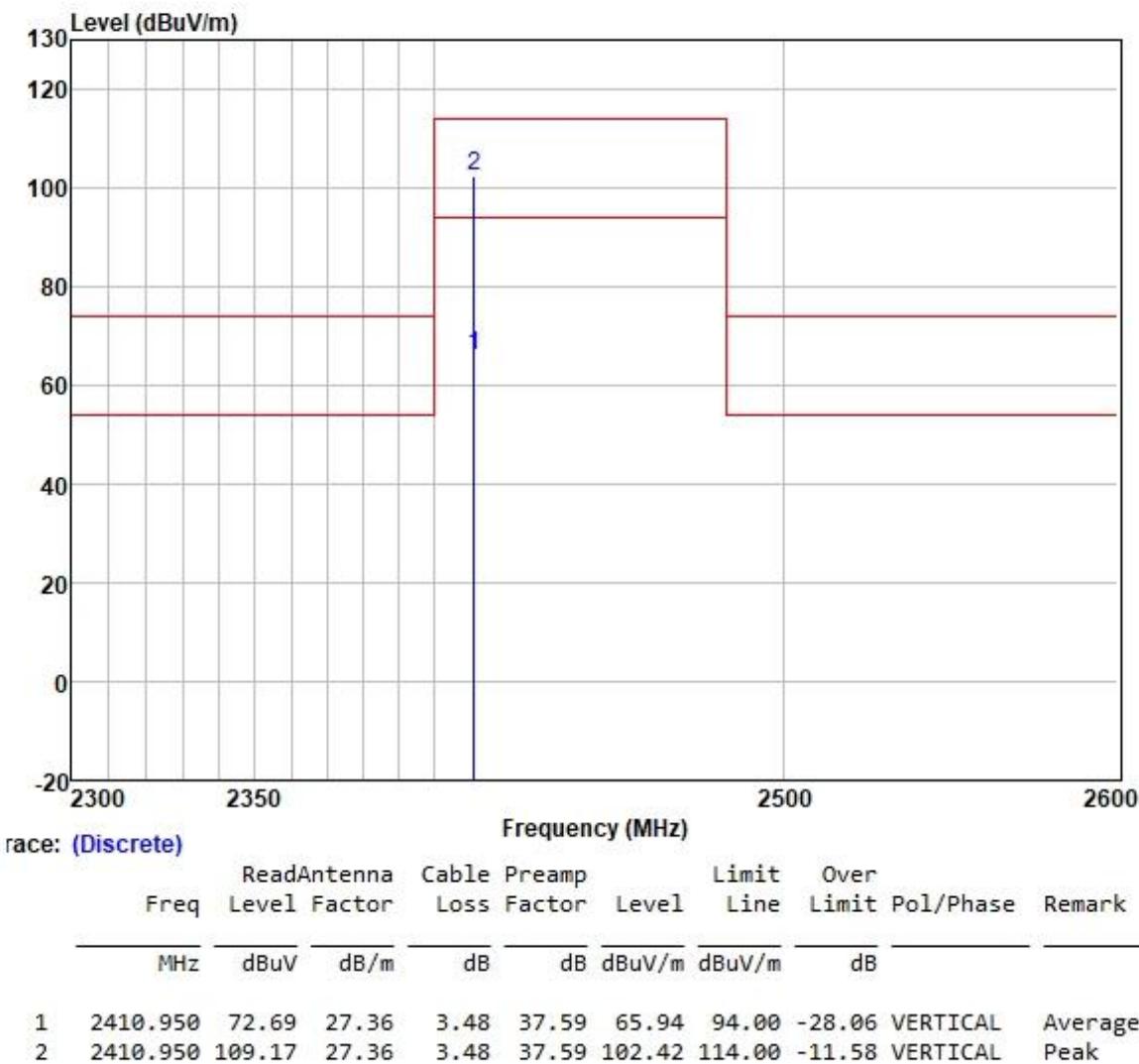
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



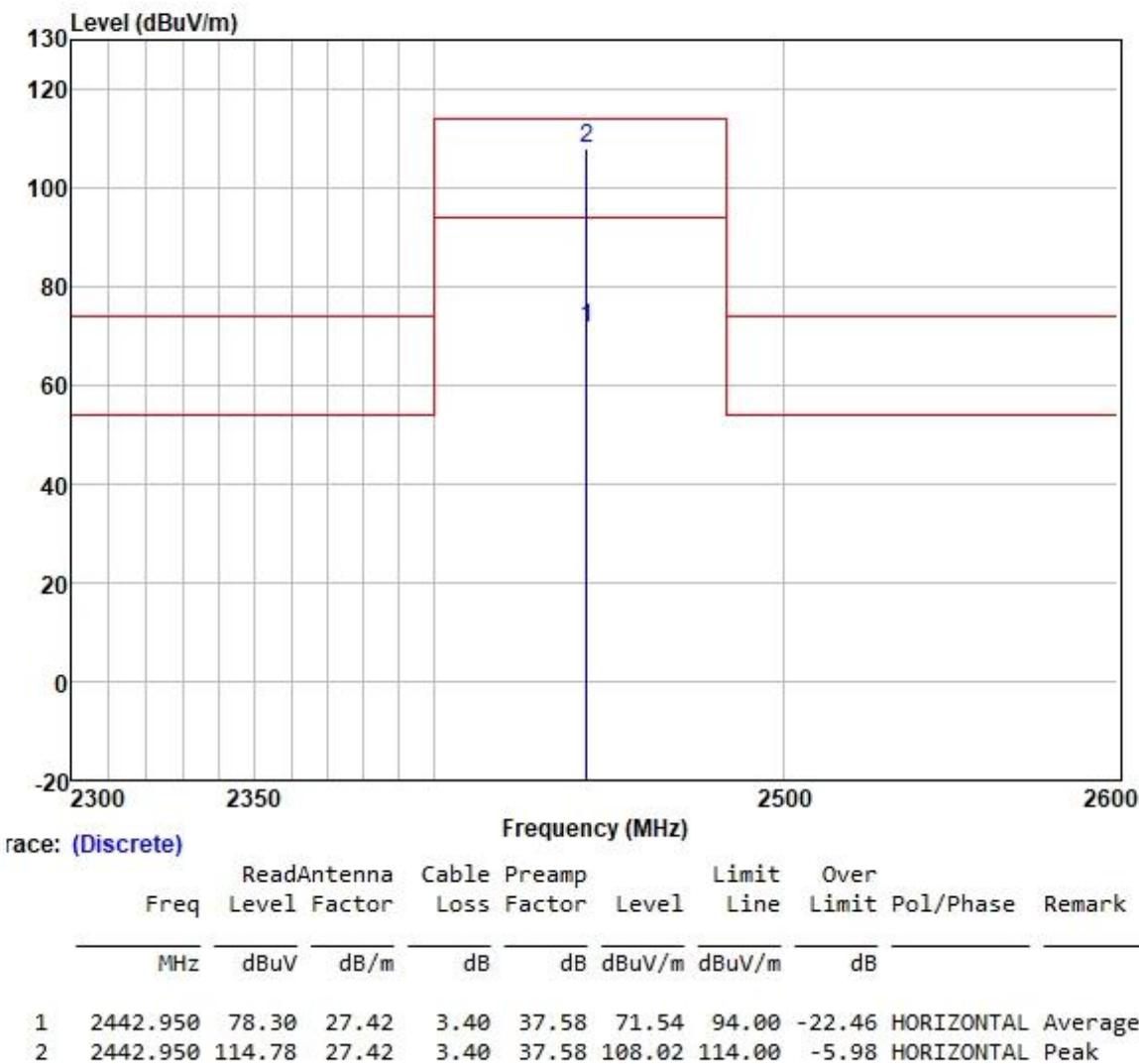
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



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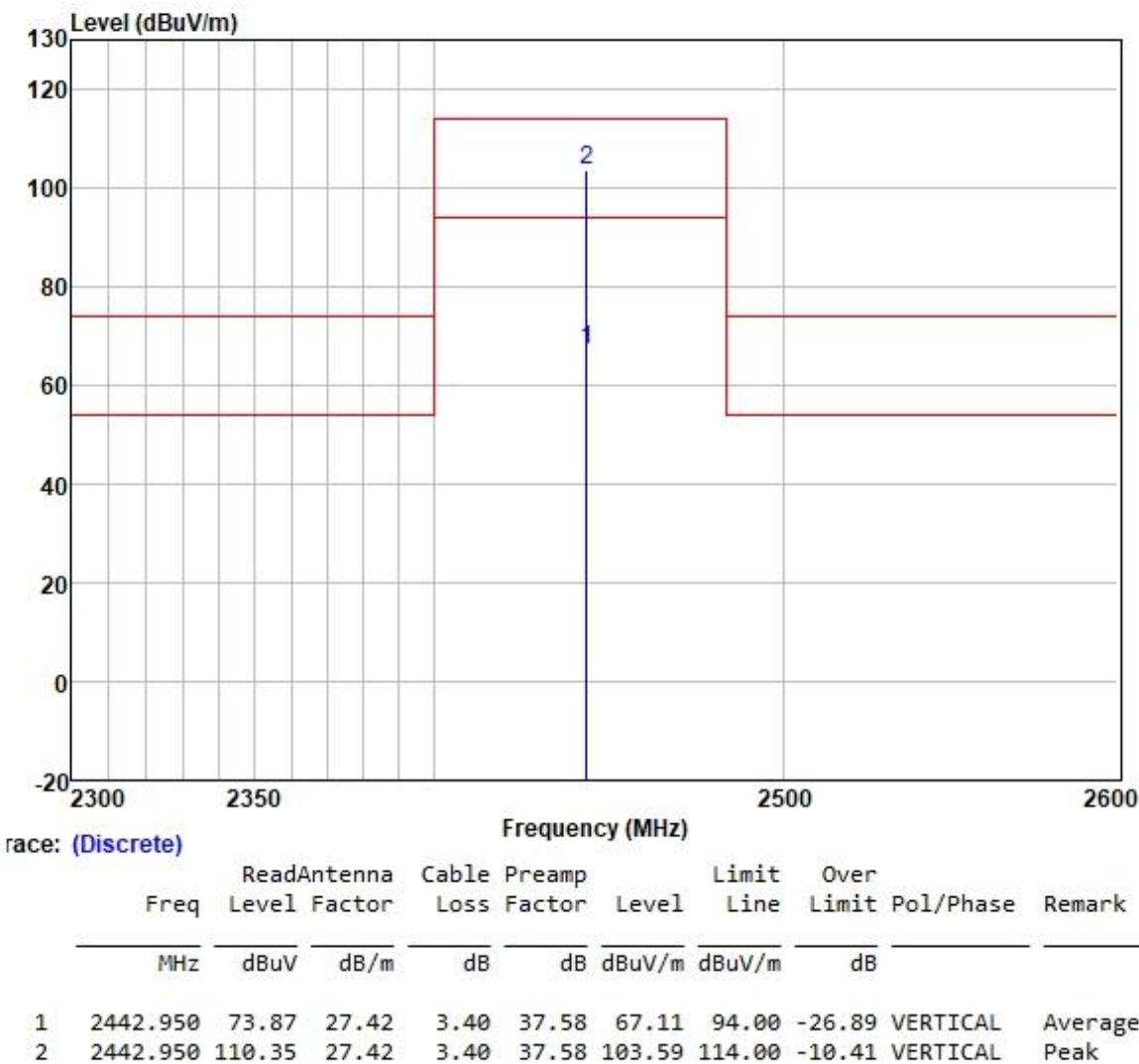
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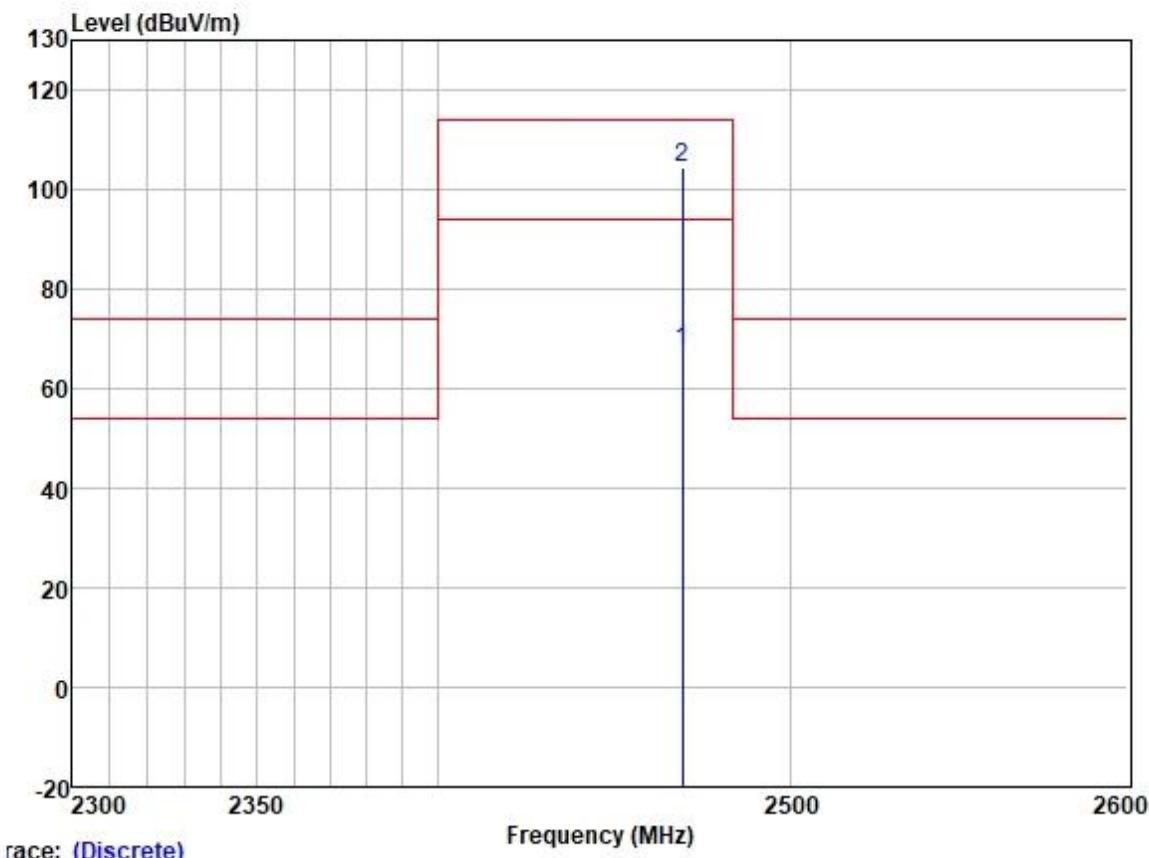
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2468.950	74.31	27.46	3.55	37.57	67.75	94.00	-26.25	HORIZONTAL Average
2	2468.950	110.79	27.46	3.55	37.57	104.23	114.00	-9.77	HORIZONTAL Peak

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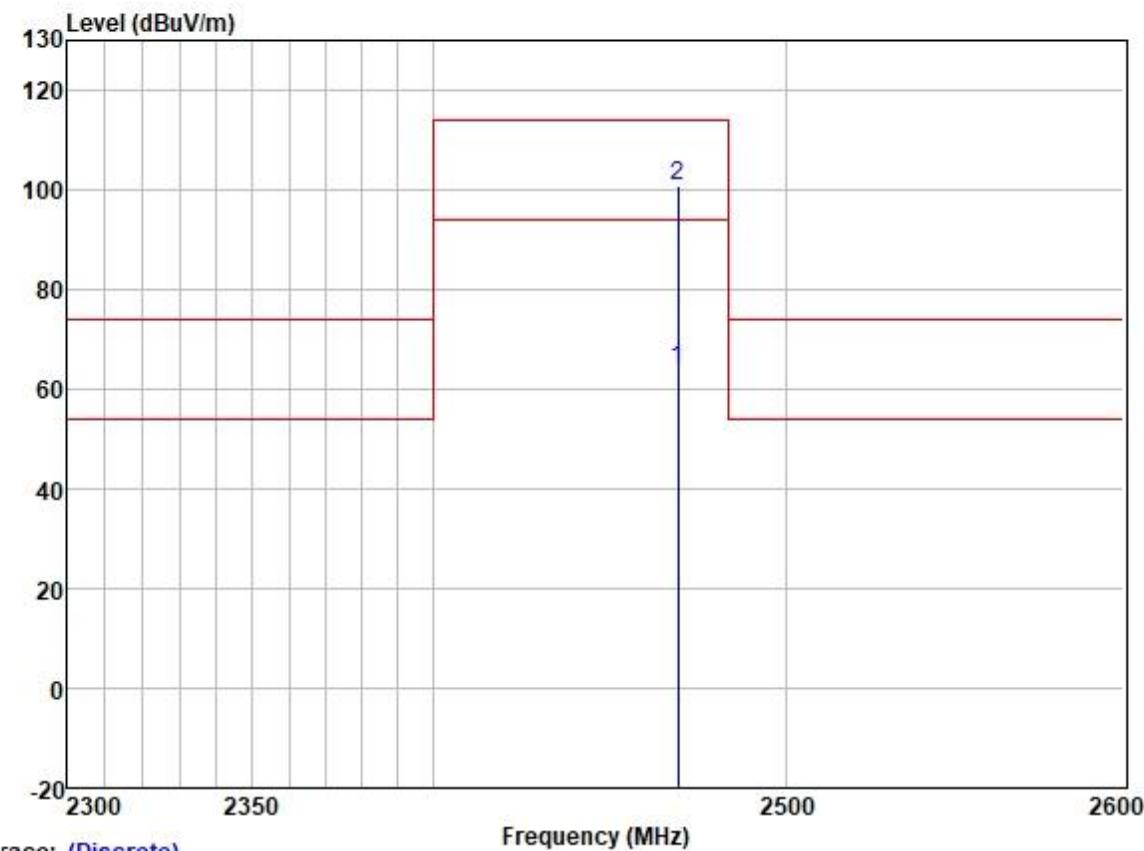
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Race: (Discrete)	ReadAntenna		Cable		Preamp	Loss	Factor	Level	Limit	Line	Over	Limit	Pol/Phase	Remark
	Freq	Level	Factor	dB										
	MHz	dBuV	dB/m											
1	2468.950	70.75	27.46	3.55	37.57	64.19	94.00	-29.81	VERTICAL					Average
2	2468.950	107.23	27.46	3.55	37.57	100.67	114.00	-13.33	VERTICAL					Peak

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 2) The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the above measurement data were shown in the report

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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

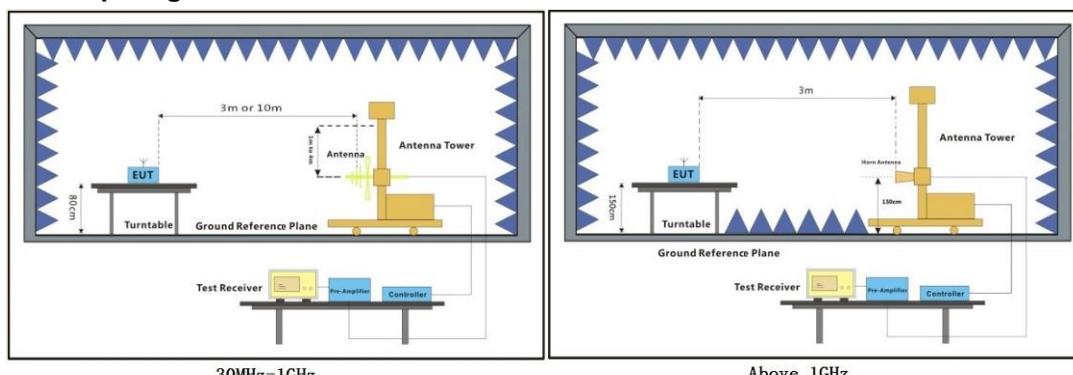
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 52.5 % RH Atmospheric Pressure: 1008 mbar

7.3.2 Test Mode Description

Pre-scan / Mode Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT(remote controller) in transmitting with modulation mode.

7.3.3 Test Setup Diagram

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7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: Antenna: 3 denotes the type of antenna for above 1000MHz.



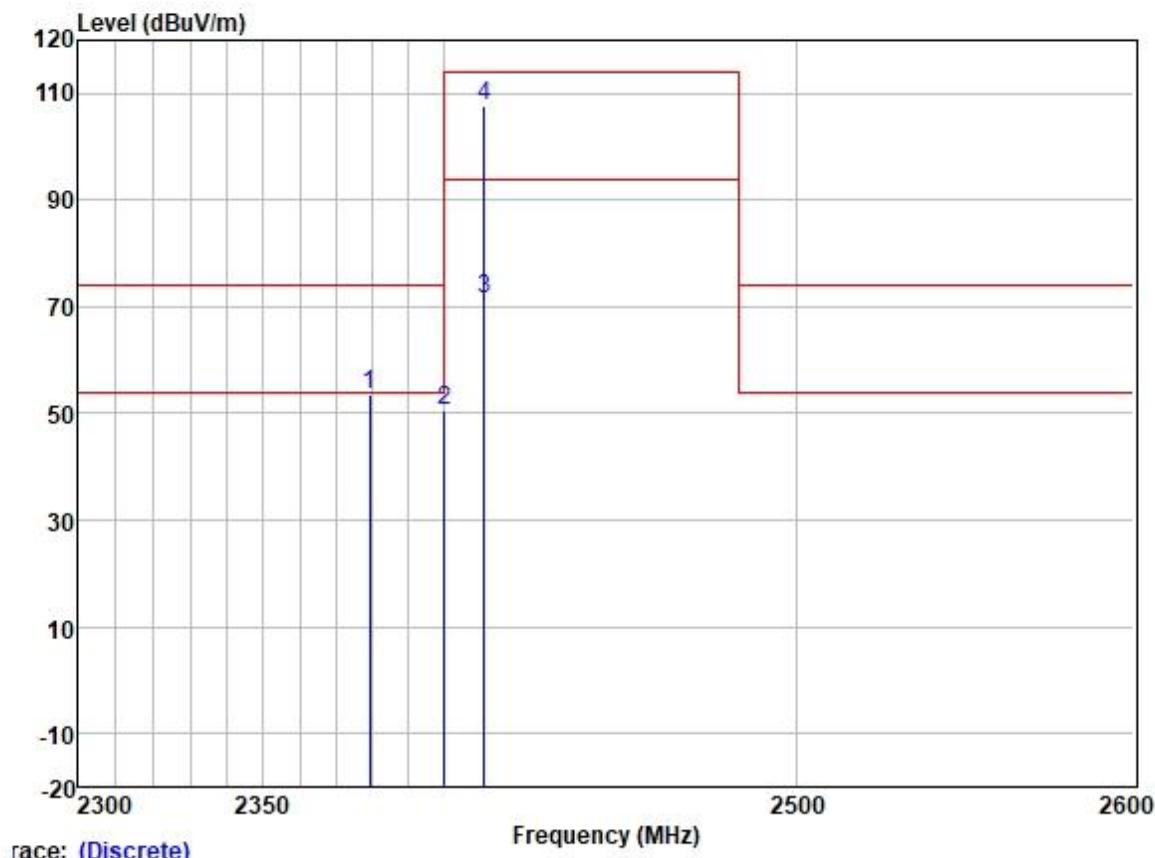
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2379.145	60.36	27.31	3.46	37.60	53.53	74.00	-20.47	HORIZONTAL Peak
2	2400.000	57.45	27.35	3.50	37.59	50.71	74.00	-23.29	HORIZONTAL Peak
3	2410.950	78.08	27.36	3.48	37.59	71.33	94.00	-22.67	HORIZONTAL Average
4	2410.950	114.56	27.36	3.48	37.59	107.81	114.00	-6.19	HORIZONTAL Peak

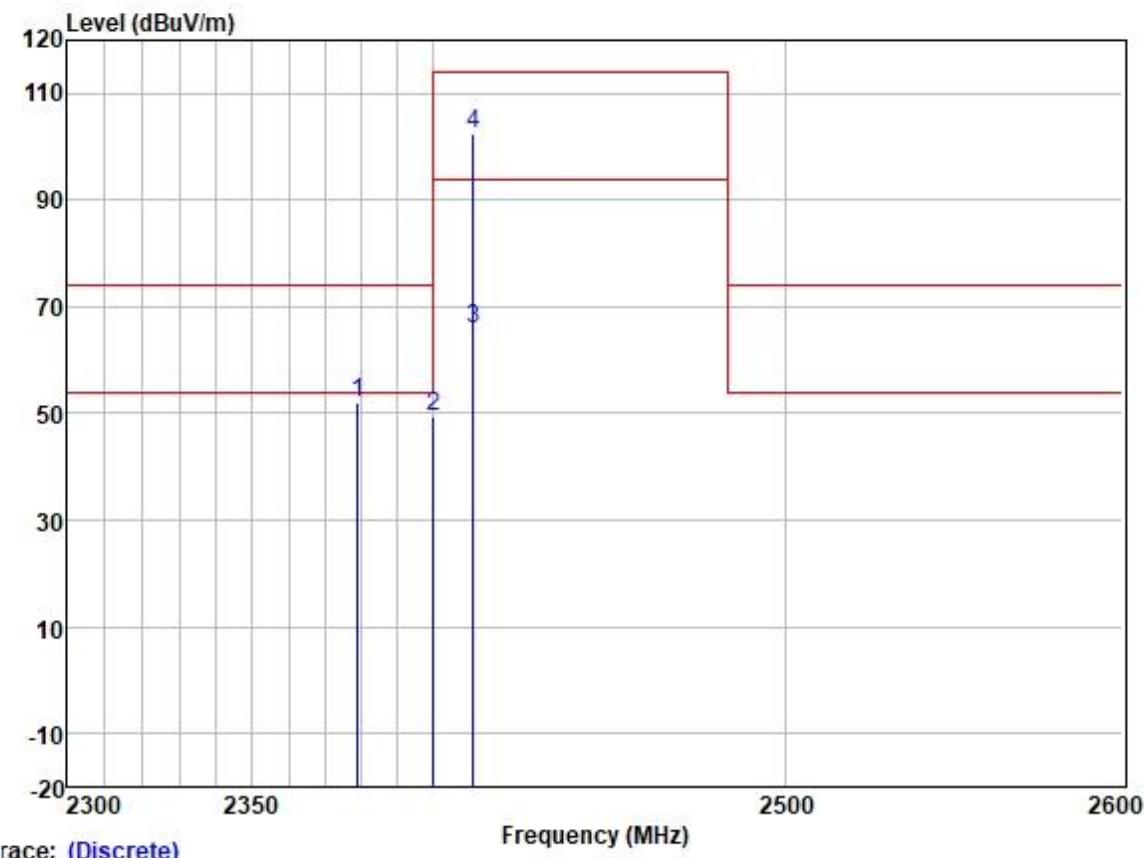
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low

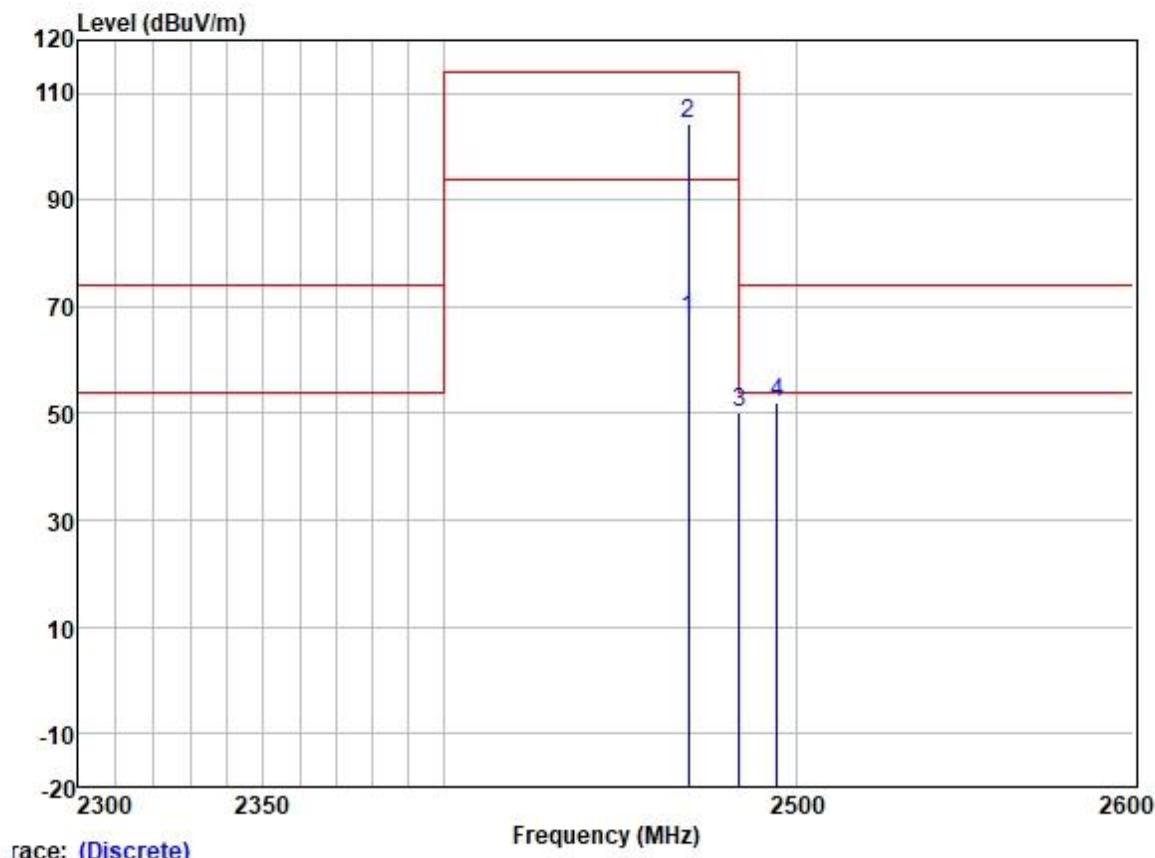


Freq	ReadAntenna		Cable		Preamp		Level	Limit	Over		Remark
	Level	Factor	Loss	Factor	Level	Line			Limit	Pol/Phase	
	MHz	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m		dB	
1	2378.924	59.00	27.31	3.46	37.60	52.17	74.00	-21.83	VERTICAL	Peak	
2	2400.000	56.14	27.35	3.50	37.59	49.40	74.00	-24.60	VERTICAL	Peak	
3	2410.950	72.69	27.36	3.48	37.59	65.94	94.00	-28.06	VERTICAL	Average	
4	2410.950	109.17	27.36	3.48	37.59	102.42	114.00	-11.58	VERTICAL	Peak	

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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	2468.950	74.31	27.46	3.55	37.57	67.75	94.00	-26.25	HORIZONTAL	Average	
2	2468.950	110.79	27.46	3.55	37.57	104.23	114.00	-9.77	HORIZONTAL	Peak	
3	2483.500	56.64	27.48	3.53	37.57	50.08	74.00	-23.92	HORIZONTAL	Peak	
4	2494.402	58.53	27.49	3.47	37.56	51.93	74.00	-22.07	HORIZONTAL	Peak	

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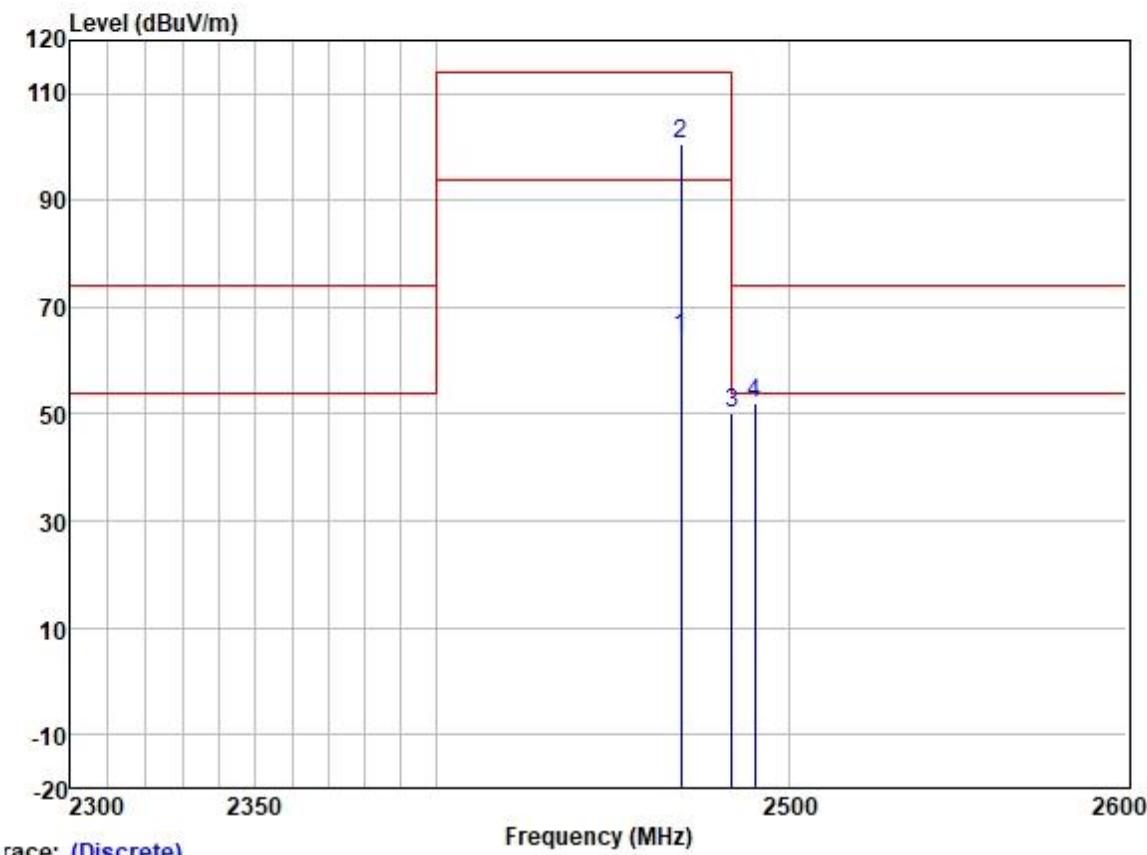
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Race: (Discrete)	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss							
	MHz	dBuV	dB/m		dB	dB	dBuV/m	dBuV/m			
1	2468.950	70.75	27.46	3.55	37.57	64.19	94.00	-29.81	VERTICAL	Average	
2	2468.950	107.23	27.46	3.55	37.57	100.67	114.00	-13.33	VERTICAL	Peak	
3	2483.500	56.64	27.48	3.53	37.57	50.08	74.00	-23.92	VERTICAL	Peak	
4	2490.080	58.47	27.49	3.47	37.56	51.87	74.00	-22.13	VERTICAL	Peak	

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 2) The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the above measurement data were shown in the report

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7.4 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 52.5 % RH Atmospheric Pressure: 1008 mbar

7.4.2 Test Mode Description

Pre-scan / Mode Final test	Mode Code	Description
Final test	01	TX mode_Keep the EUT(remote controller) in transmitting with modulation mode.

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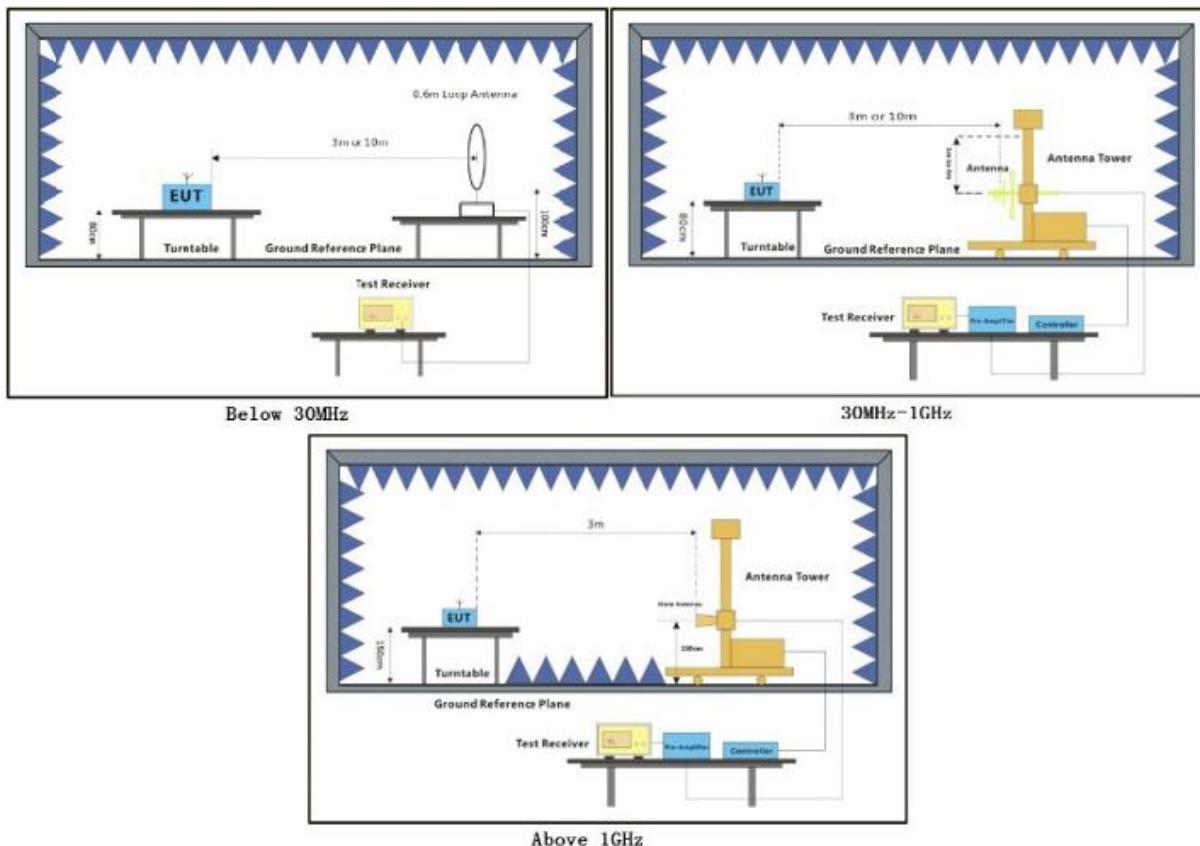
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7.4.3 Test Setup Diagram

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7.4.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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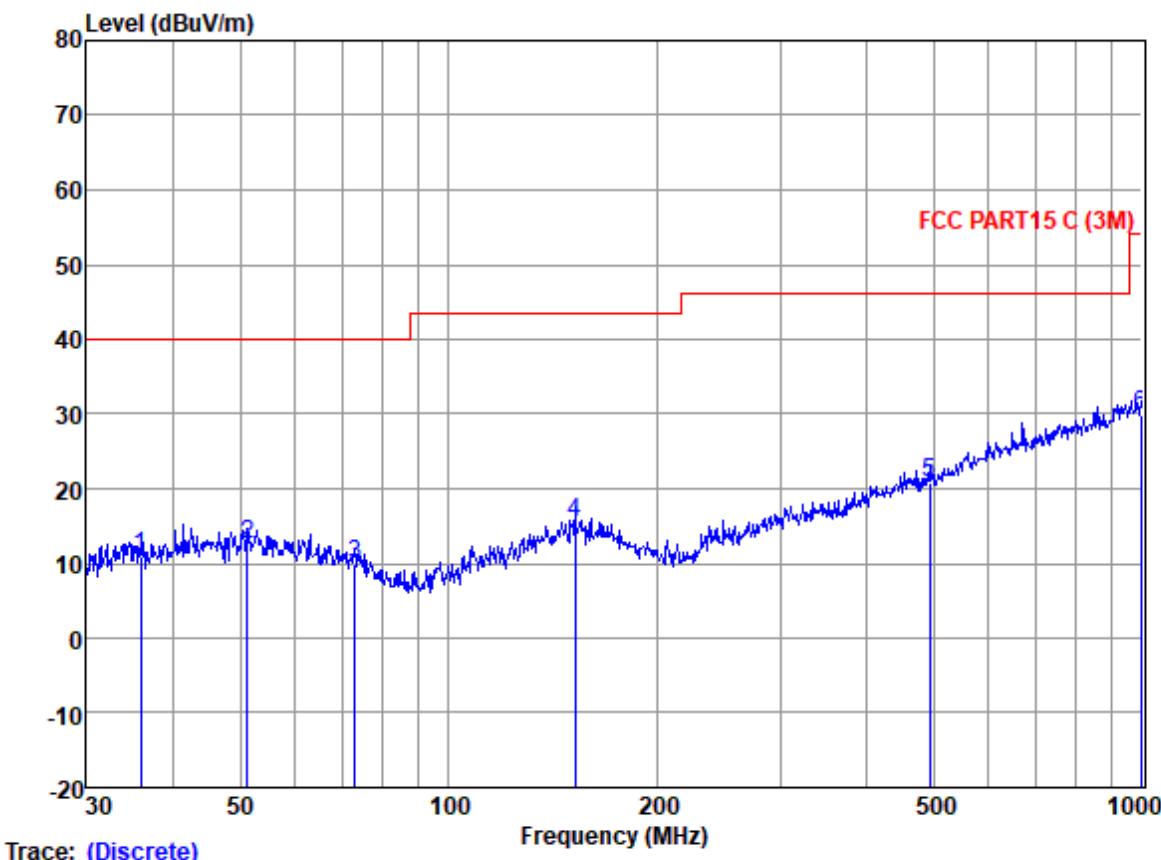
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Below 1GHz

Test Mode: 01; Polarity: Horizontal



Site : SGS
Condition : FCC PART15 C (3M)
Job :
Model :
Power :
Test Mode :

Freq	Read	Antena	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1	35.87	23.98	12.99	1.07	27.18	10.86	40.00	-29.14	HORIZONTAL QP
2	51.12	24.69	13.95	1.15	27.17	12.62	40.00	-27.38	HORIZONTAL QP
3	73.10	24.26	11.20	1.44	27.11	9.79	40.00	-30.21	HORIZONTAL QP
4	152.13	26.25	13.80	2.26	26.82	15.49	43.50	-28.01	HORIZONTAL QP
5	494.20	26.56	17.90	4.37	27.96	20.87	46.00	-25.13	HORIZONTAL QP
6	996.50	25.76	24.27	7.43	27.66	29.80	54.00	-24.20	HORIZONTAL QP

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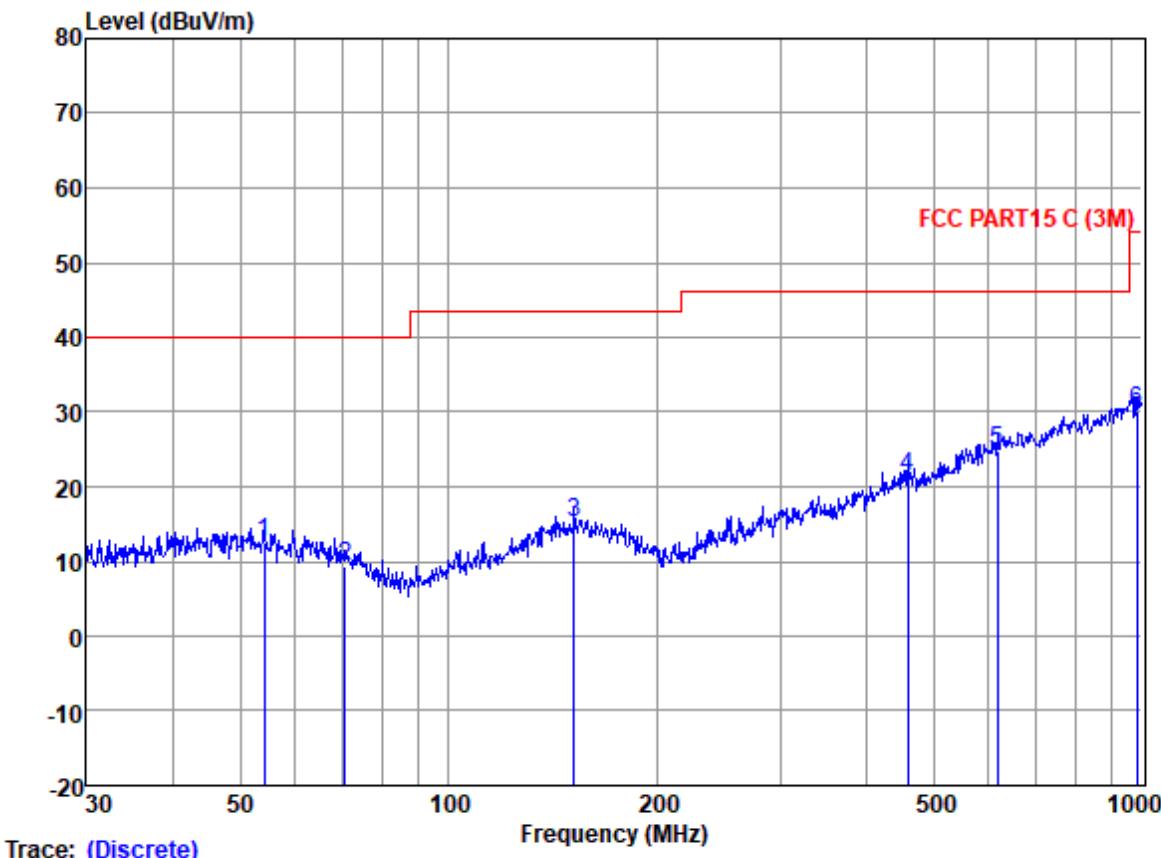
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Test Mode: 01; Polarity: Vertical



Site : SGS
Condition : FCC PART15 C (3M)
Job :
Model :
Power :
Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 54.07	24.75	13.80	1.18	27.17	12.56	40.00	-27.44	VERTICAL	QP
2 70.83	23.36	11.76	1.41	27.12	9.41	40.00	-30.59	VERTICAL	QP
3 151.60	25.92	13.80	2.26	26.83	15.15	43.50	-28.35	VERTICAL	QP
4 459.11	27.41	17.48	4.25	27.78	21.36	46.00	-24.64	VERTICAL	QP
5 618.54	27.35	20.38	5.28	28.20	24.81	46.00	-21.19	VERTICAL	QP
6 982.62	26.36	24.13	7.31	27.68	30.12	54.00	-23.88	VERTICAL	QP

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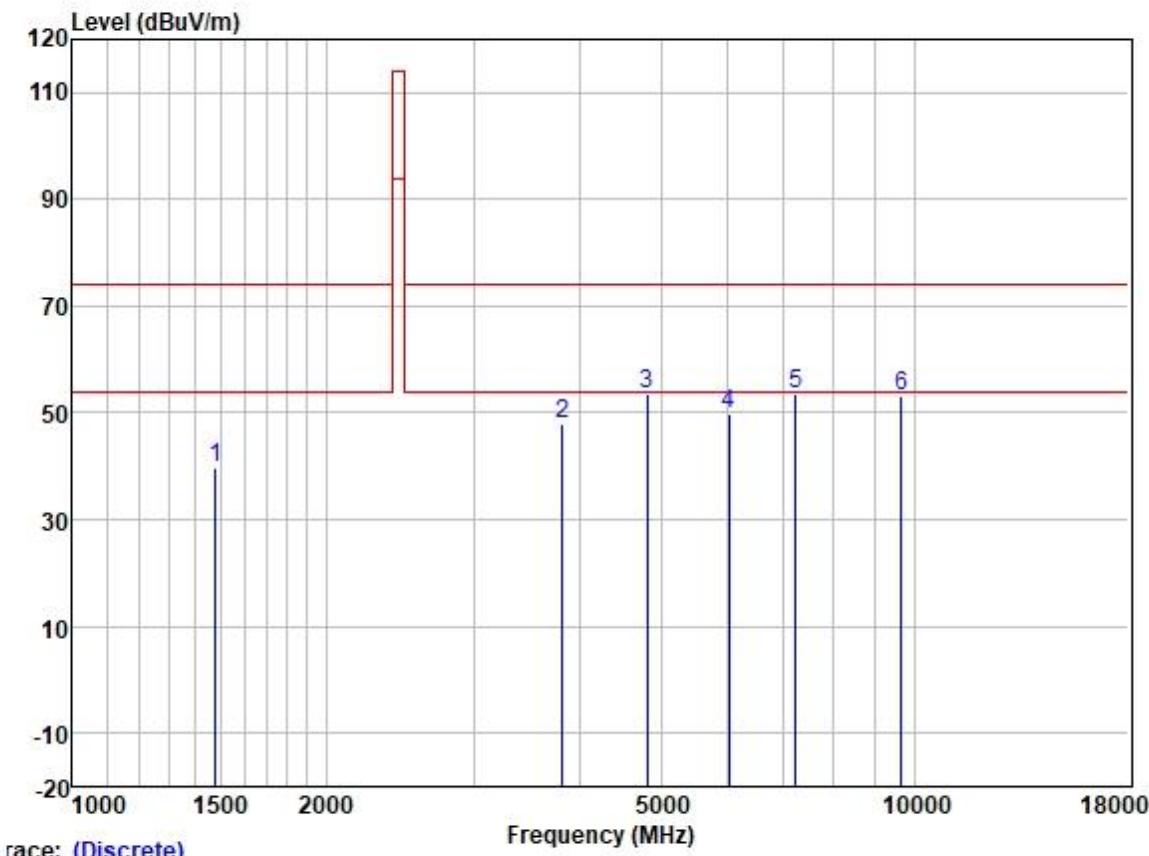
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Above 1GHz

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



Index	Frequency (MHz)	Read Antenna		Cable		Preamp Level	Limit Line	Over Limit	Pol/Phase	Remark
		Freq	Level	Factor	Loss					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1477.276	49.43	25.48	2.77	38.13	39.55	74.00	-34.45	HORIZONTAL	Peak
2	3823.371	50.51	29.57	4.60	36.84	47.84	74.00	-26.16	HORIZONTAL	Peak
3	4821.900	53.64	31.45	5.42	36.83	53.68	74.00	-20.32	HORIZONTAL	Peak
4	6018.999	48.23	32.44	6.19	36.90	49.96	74.00	-24.04	HORIZONTAL	Peak
5	7232.850	49.03	35.70	6.03	37.39	53.37	74.00	-20.63	HORIZONTAL	Peak
6	9643.800	45.08	38.40	7.06	37.42	53.12	74.00	-20.88	HORIZONTAL	Peak

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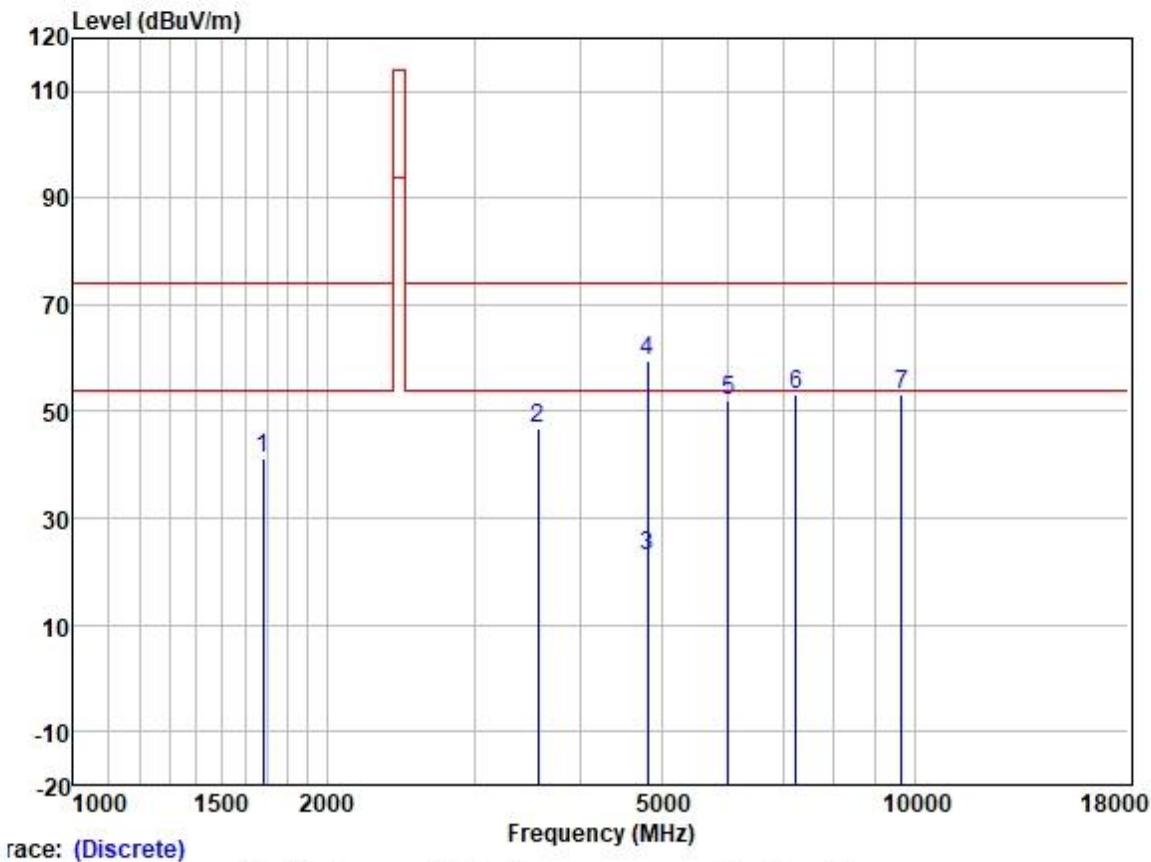
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor	Level	Line					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	1682.477	50.51	25.68	2.80	37.91	41.08	74.00	-32.92	VERTICAL	Peak	
2	3567.138	50.47	28.99	4.45	36.92	46.99	74.00	-27.01	VERTICAL	Peak	
3	4821.900	22.93	31.45	5.42	36.83	22.97	54.00	-31.03	VERTICAL	Average	
4	4821.900	59.41	31.45	5.42	36.83	59.45	74.00	-14.55	VERTICAL	Peak	
5	6001.626	50.32	32.40	6.20	36.90	52.02	74.00	-21.98	VERTICAL	Peak	
6	7232.850	48.68	35.70	6.03	37.39	53.02	74.00	-20.98	VERTICAL	Peak	
7	9643.800	45.29	38.40	7.06	37.42	53.33	74.00	-20.67	VERTICAL	Peak	

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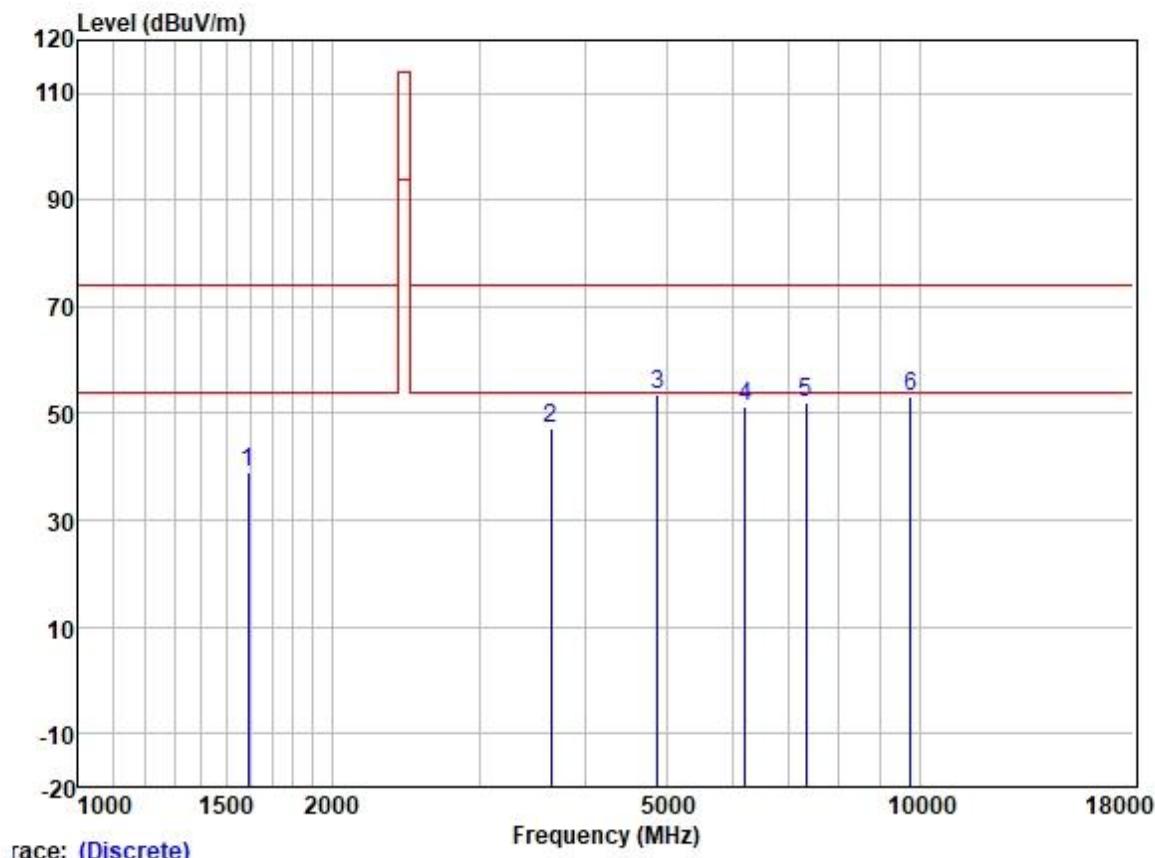
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Pol/Phase	Remark
	Level	Factor	Loss	Factor					
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 1592.571	48.59	25.57	2.80	37.98	38.98	74.00	-35.02	HORIZONTAL	Peak
2 3650.582	50.59	29.13	4.52	36.89	47.35	74.00	-26.65	HORIZONTAL	Peak
3 4885.900	53.22	31.56	5.52	36.84	53.46	74.00	-20.54	HORIZONTAL	Peak
4 6213.441	49.09	33.03	6.06	36.94	51.24	74.00	-22.76	HORIZONTAL	Peak
5 7328.850	47.44	36.00	6.13	37.43	52.14	74.00	-21.86	HORIZONTAL	Peak
6 9771.800	44.87	38.53	7.01	37.41	53.00	74.00	-21.00	HORIZONTAL	Peak

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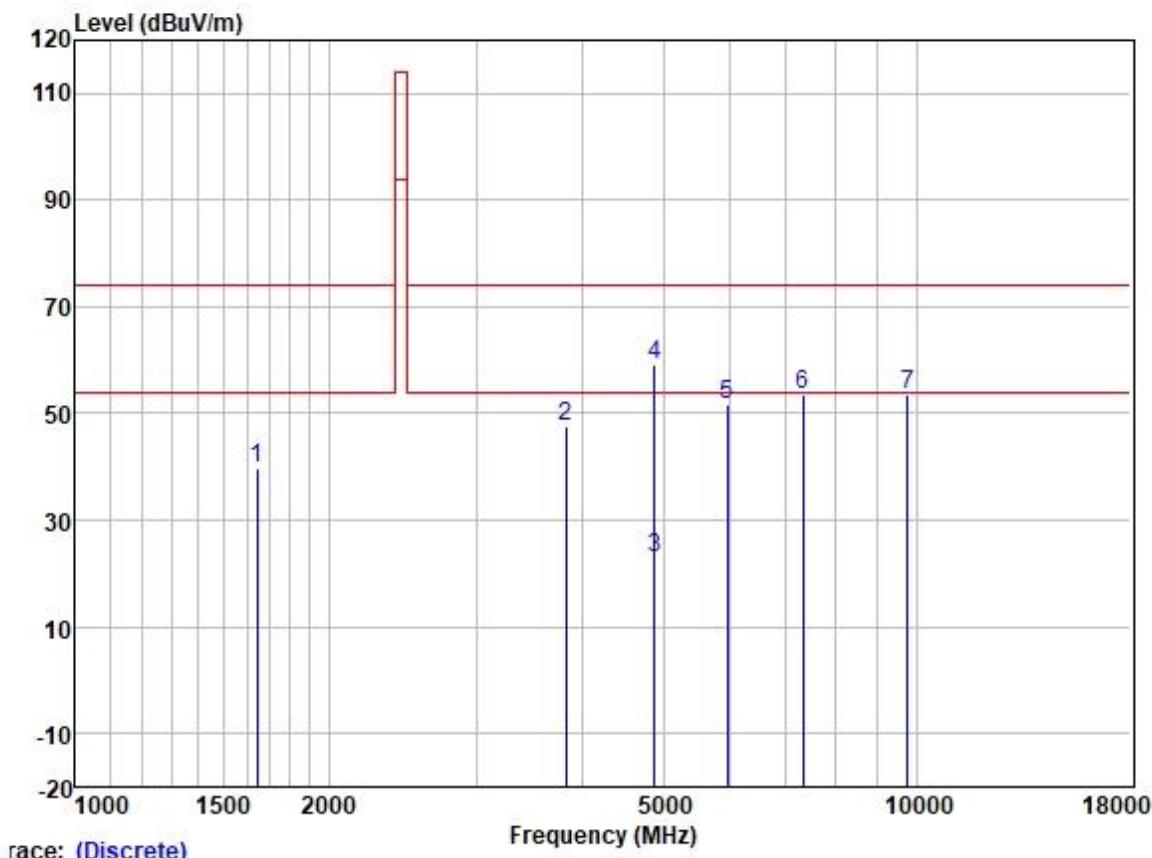
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB			
1	1644.019	49.40	25.63	2.80	37.93	39.90	74.00	-34.10	VERTICAL		Peak	
2	3834.438	50.22	29.59	4.60	36.84	47.57	74.00	-26.43	VERTICAL		Peak	
3	4885.900	22.60	31.56	5.52	36.84	22.84	54.00	-31.16	VERTICAL		Average	
4	4885.900	59.08	31.56	5.52	36.84	59.32	74.00	-14.68	VERTICAL		Peak	
5	5949.811	50.14	32.36	6.05	36.90	51.65	74.00	-22.35	VERTICAL		Peak	
6	7328.850	48.69	36.00	6.13	37.43	53.39	74.00	-20.61	VERTICAL		Peak	
7	9771.800	45.52	38.53	7.01	37.41	53.65	74.00	-20.35	VERTICAL		Peak	

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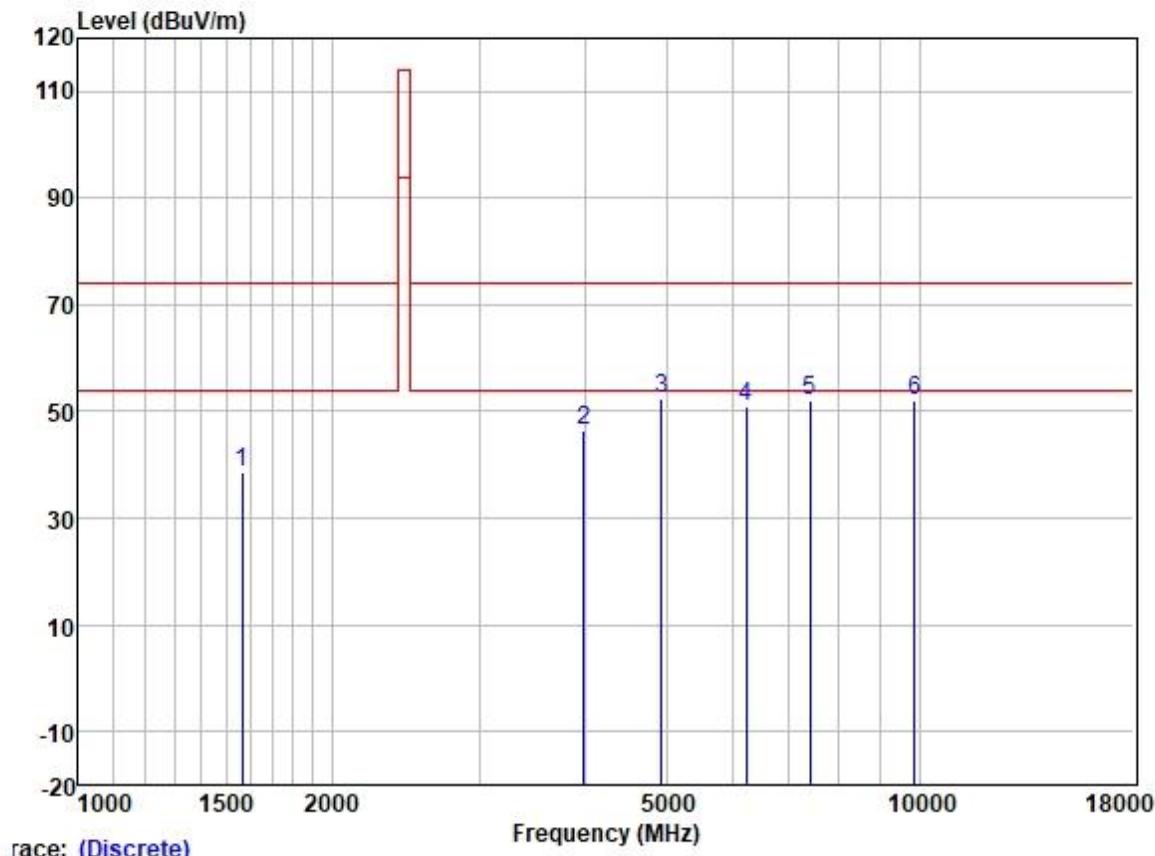
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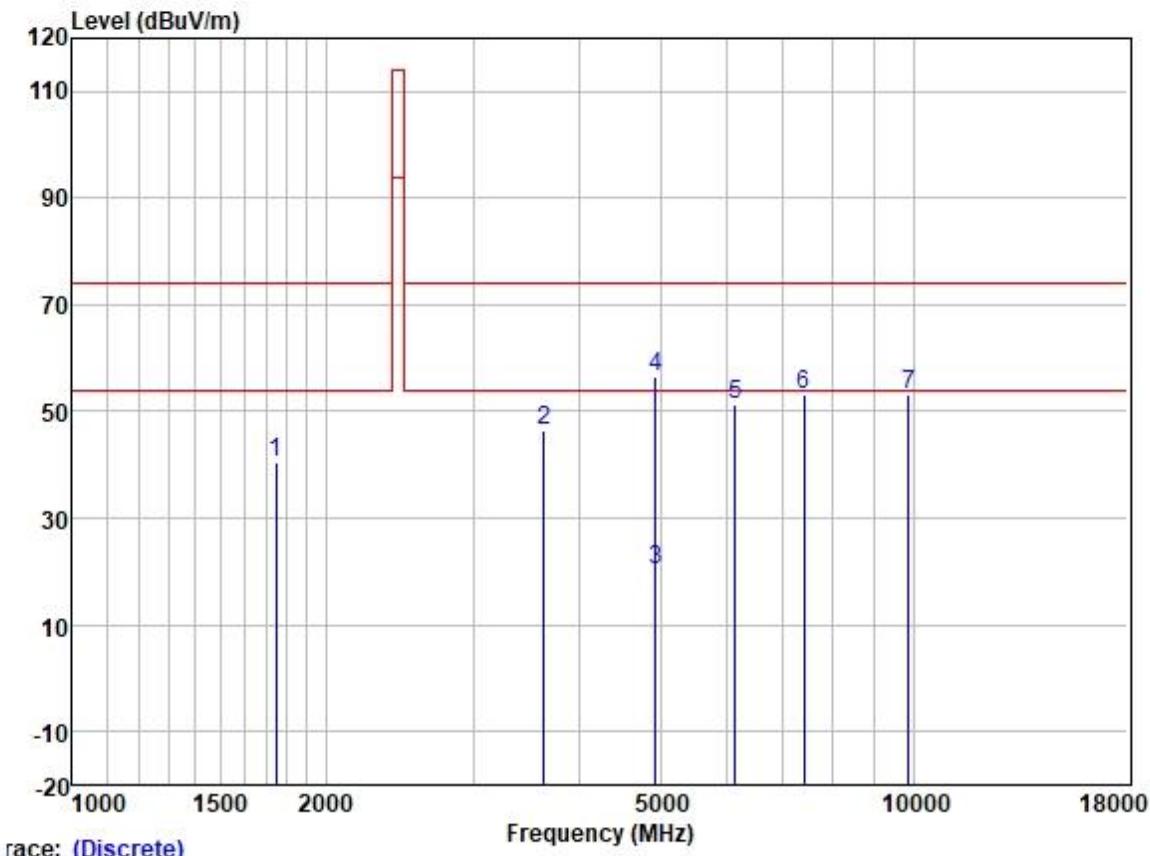
Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	1746.898	49.78	25.84	2.89	37.85	40.66	74.00	-33.34	VERTICAL	Peak	
2	3640.045	49.70	29.11	4.52	36.89	46.44	74.00	-27.56	VERTICAL	Peak	
3	4937.900	19.72	31.64	5.62	36.84	20.14	54.00	-33.86	VERTICAL	Average	
4	4937.900	56.20	31.64	5.62	36.84	56.62	74.00	-17.38	VERTICAL	Peak	
5	6142.019	49.32	32.77	6.12	36.93	51.28	74.00	-22.72	VERTICAL	Peak	
6	7406.850	48.12	36.22	6.20	37.46	53.08	74.00	-20.92	VERTICAL	Peak	
7	9875.800	44.85	38.60	6.98	37.41	53.02	74.00	-20.98	VERTICAL	Peak	

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8 Test Setup Photo

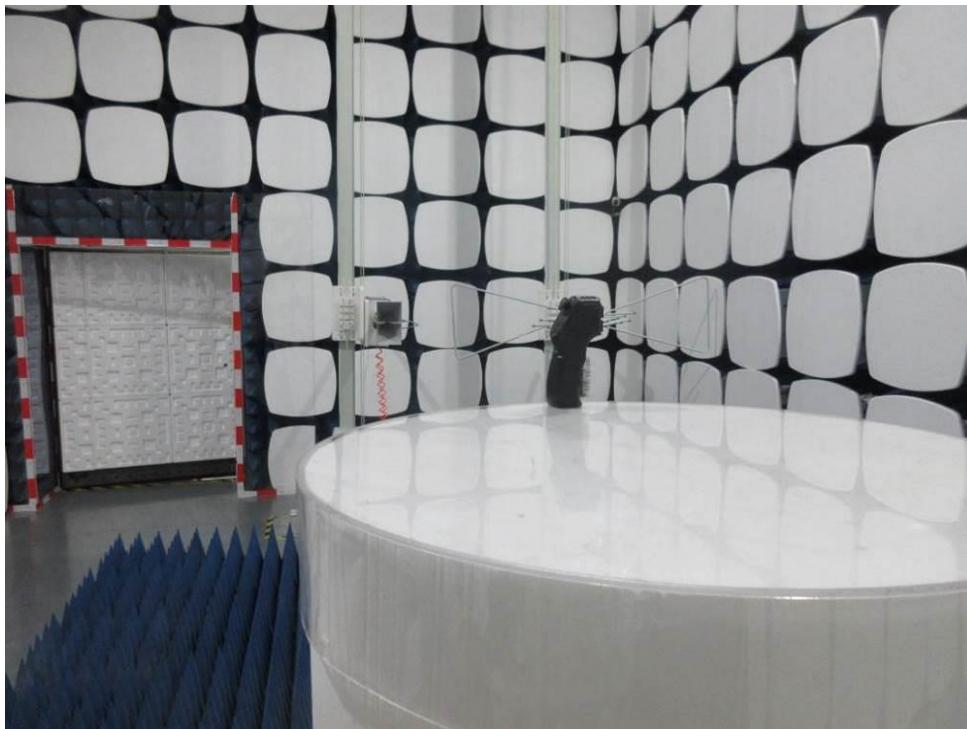
Field Strength of the Fundamental Signal (15.249(a))

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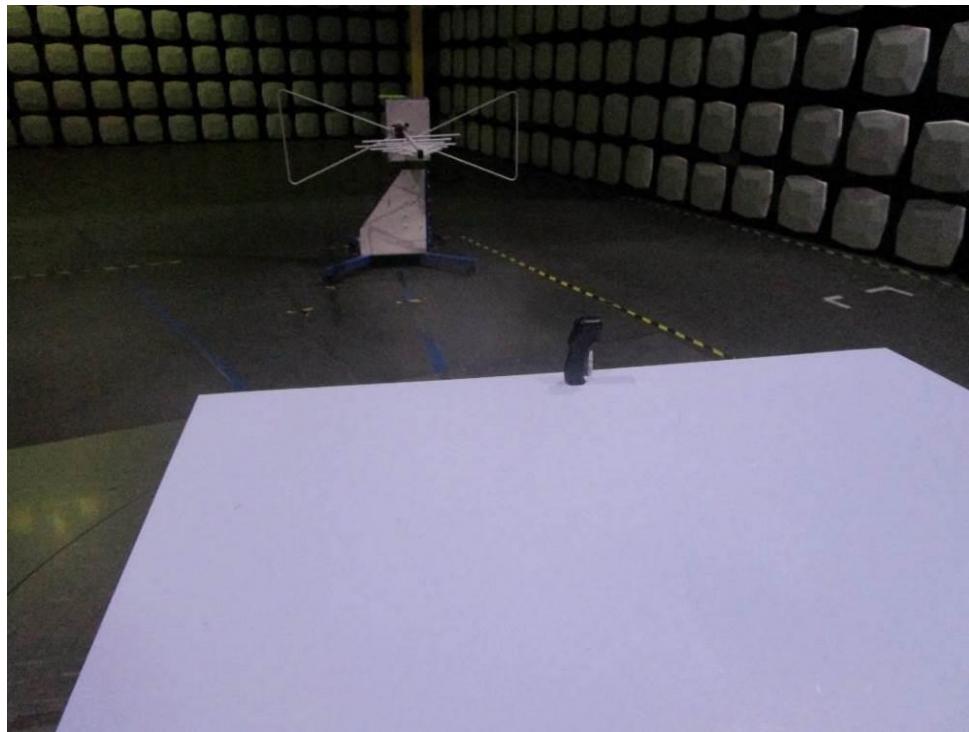
Restricted Band Around Fundamental Frequency

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Radiated Emissions (below 1GHz)

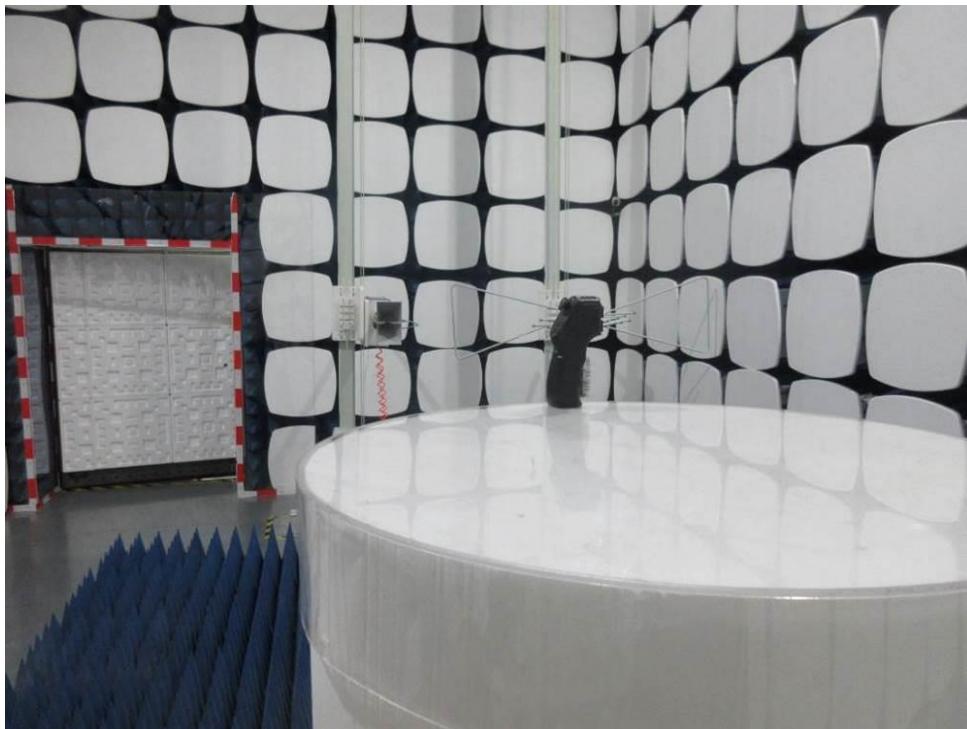
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Radiated Emissions (above 1GHz)

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9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2108020863AT

- End of the Report -



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