



TEST REPORT

Application No.: GZCR2109021139AT
Applicant: PAX Technology Limited
Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong, China
Manufacturer: PAX Computer Technology(Shenzhen) Co., Ltd.
Address of Manufacturer: 4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.

Equipment Under Test (EUT):

EUT Name: Mobile Payment Cell Phone
Model No.: M50
Trade Mark: PAX
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2021-09-16
Date of Test: 2021-09-17 to 2021-10-12
Date of Issue: 2021-10-18

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		2021-10-18		Original

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

2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Below 1GHz)		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions (Above 1GHz)		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	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.

Remark: This report is only valid with SZEM201201302803, by comparison with previous report, this report just changed as below:

1. The middle frame changed from rounded corners to right angles.
2. Power key and volume key position changed.
3. The material of battery cover changed from plastic to glass.

Considering the difference above, Radiated Emissions which fall in the restricted bands & Radiated Spurious Emissions were re-tested.

For other test data, please refer to previous report.

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.85V by li-ion battery(3020mAh) Recharged by power adapter Adapter M/N: SW-0983 Adapter input: AC100-240V, 50/60Hz, 0.5A Adapter output: DC5V/2A
Cable(s):	USB type C cable: 1m shielded cable without ferrite core
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	1dBi declared by applicant
Firmware Version:	15.1.01
Hardware Version:	M50
Testing Software:	Type in *##3646633## in the dial display to enter engineering mode
SN:	2250000695
Power Setting:	default(-2dBm), can not be changed by user.
Data Rate:	1Mbps, 2Mbps

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.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	$\pm 5.08\text{dB}$ (1GHz-6GHz); $\pm 5.14\text{dB}$ (above 6GHz)
Radiated Spurious Emissions (Below 1GHz)	$\pm 5.06\text{dB}$ (3m); $\pm 4.46\text{dB}$ (10m)
Radiated Spurious Emissions (Above 1GHz)	$\pm 5.08\text{dB}$ (1GHz-6GHz); $\pm 5.14\text{dB}$ (above 6GHz)

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech 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, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

5 Equipment List

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15
Chamber cable(Above 1GHz)	Scoflex	KMKM-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
Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27

Radiated Spurious Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable	HangTianXing	N/A	EMC0542	2020-09-09	2022-09-08
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
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
EMI Test Receiver(1Hz-8GHz)	Rohde & Schwarz	ESW8	EMC2220	2021-05-26	2022-05-25

Radiated Spurious Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Chamber cable(Above 1GHz)	Scoflex	KMKM-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
EXA Signal Analyzer(10Hz-44GHz)	Keysight	N9010A	EMC2138	2021-09-16	2022-09-15



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Test Software E3	Audix	Ver.6.120110a	GZE100-61	N/A	N/A
Horn Antenna(14-40GHz)	SCHWARZBECK	BBHA 9170	EMC2041	2020-06-28	2023-06-27

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



6 Radio Spectrum Matter Test Results

6.1 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C Humidity: 60 % RH Atmospheric Pressure: 1003 mbar

6.1.2 Test Mode Description

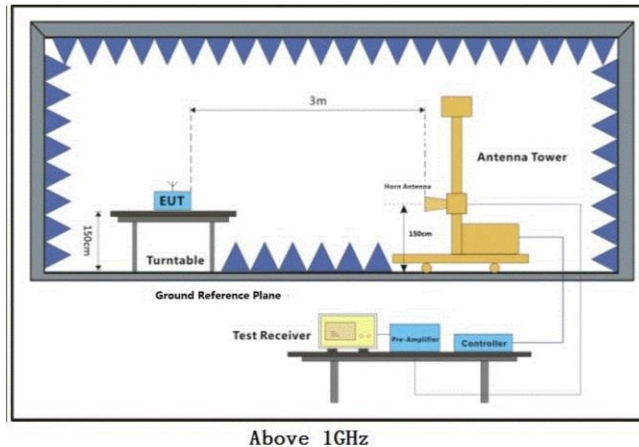
Pre-scan / Final test	Mode Code	Description
Final test	07	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	08	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.



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6.1.3 Test Setup Diagram



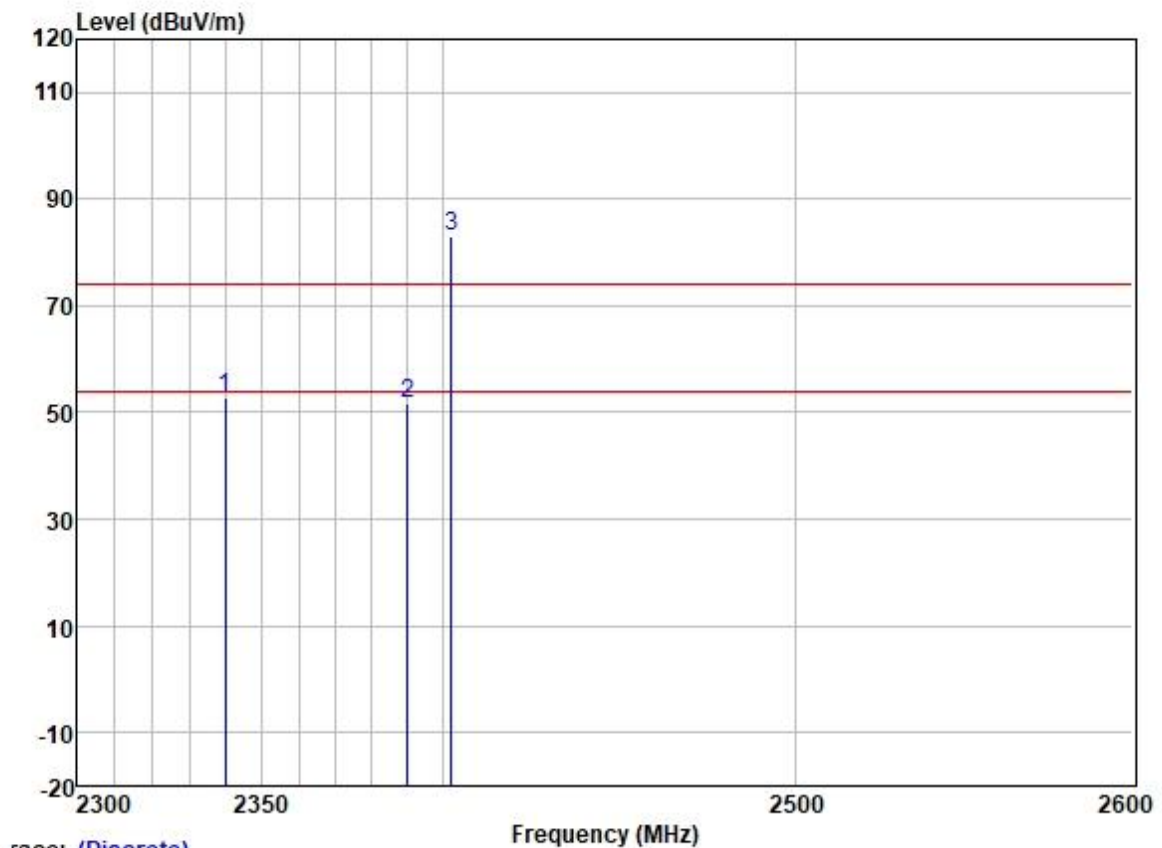
6.1.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

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

Remark 2: 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.

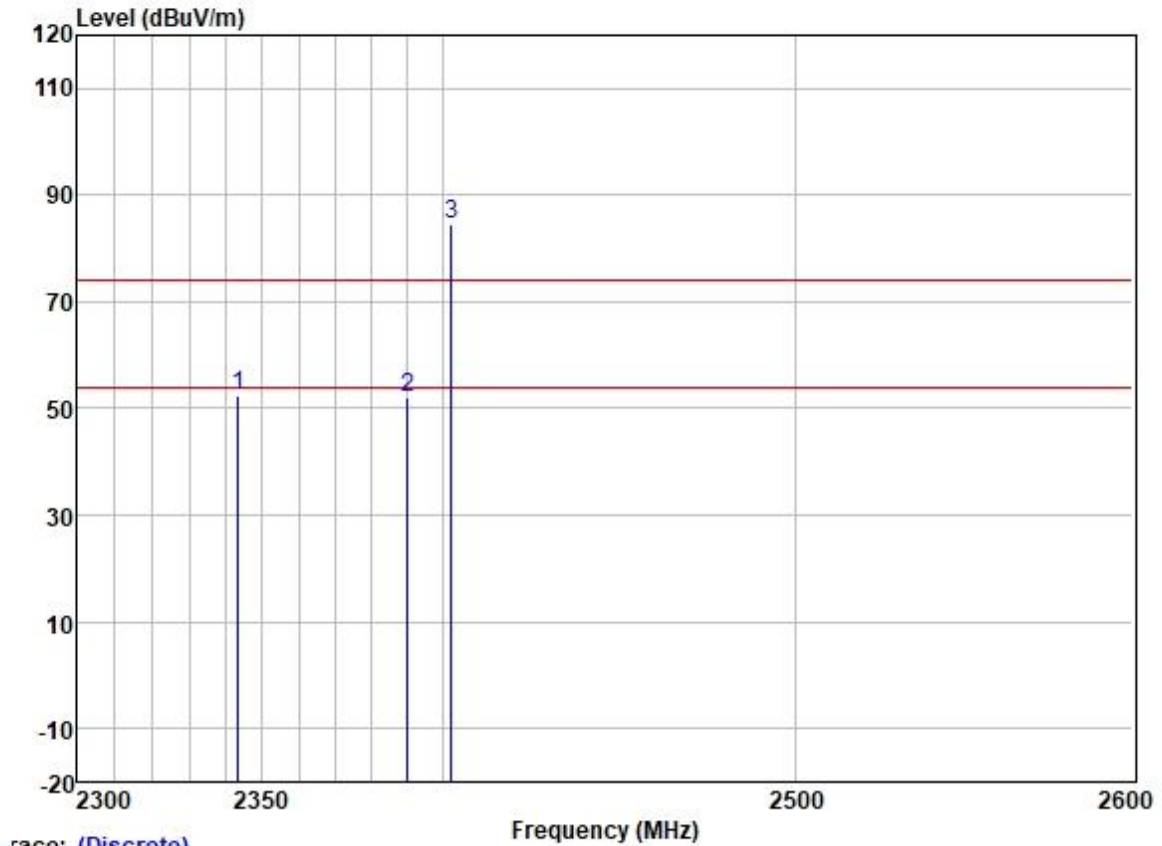
Test Mode: 07; Polarity: Horizontal; Modulation: GFSK; ; Channel: Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2339.854	59.70	27.22	3.37	37.61	52.68	74.00	-21.32	HORIZONTAL Peak
2	2390.000	58.44	27.33	3.48	37.59	51.66	74.00	-22.34	HORIZONTAL Peak
3 *	2402.000	89.93	27.35	3.50	37.59	83.19	74.00	9.19	HORIZONTAL Peak

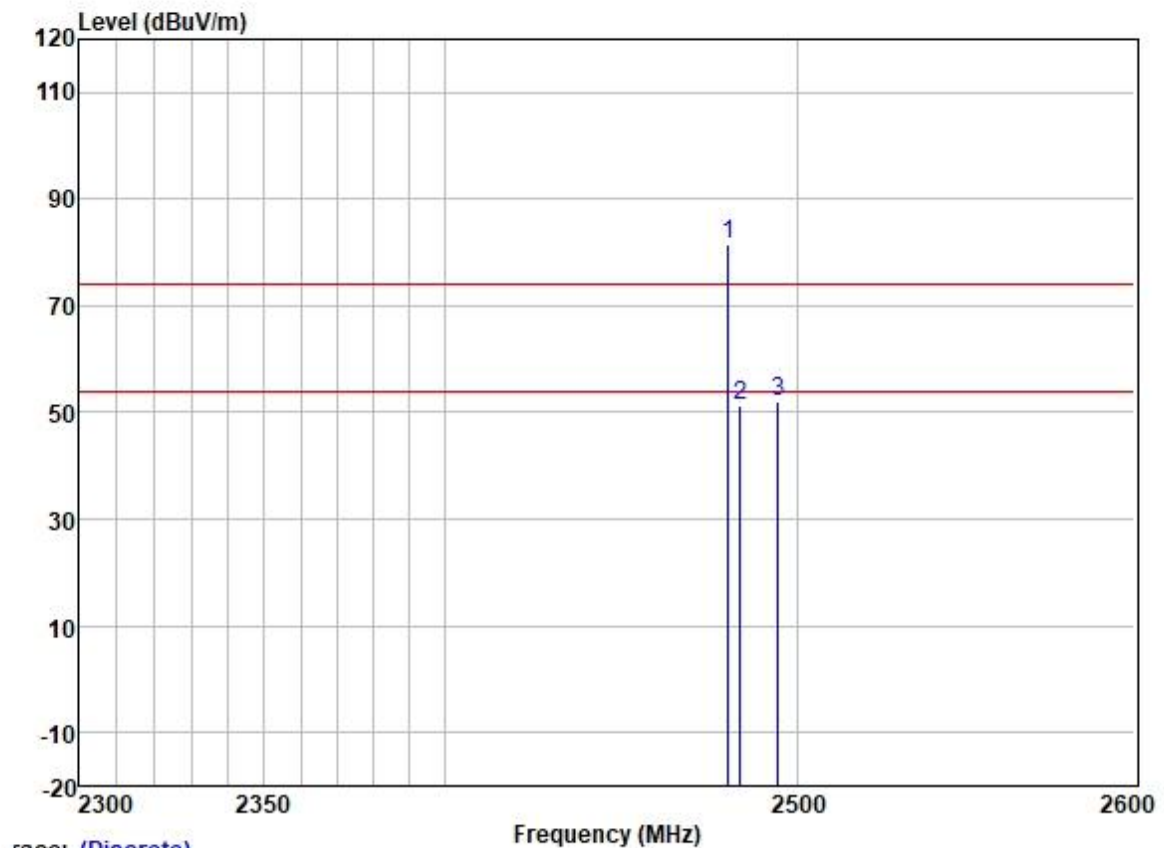
Test Mode: 07; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2343.228	59.56	27.24	3.38	37.61	52.57	74.00	-21.43	VERTICAL Peak
2	2390.000	58.76	27.33	3.48	37.59	51.98	74.00	-22.02	VERTICAL Peak
3 *	2402.000	91.26	27.35	3.50	37.59	84.52	74.00	10.52	VERTICAL Peak

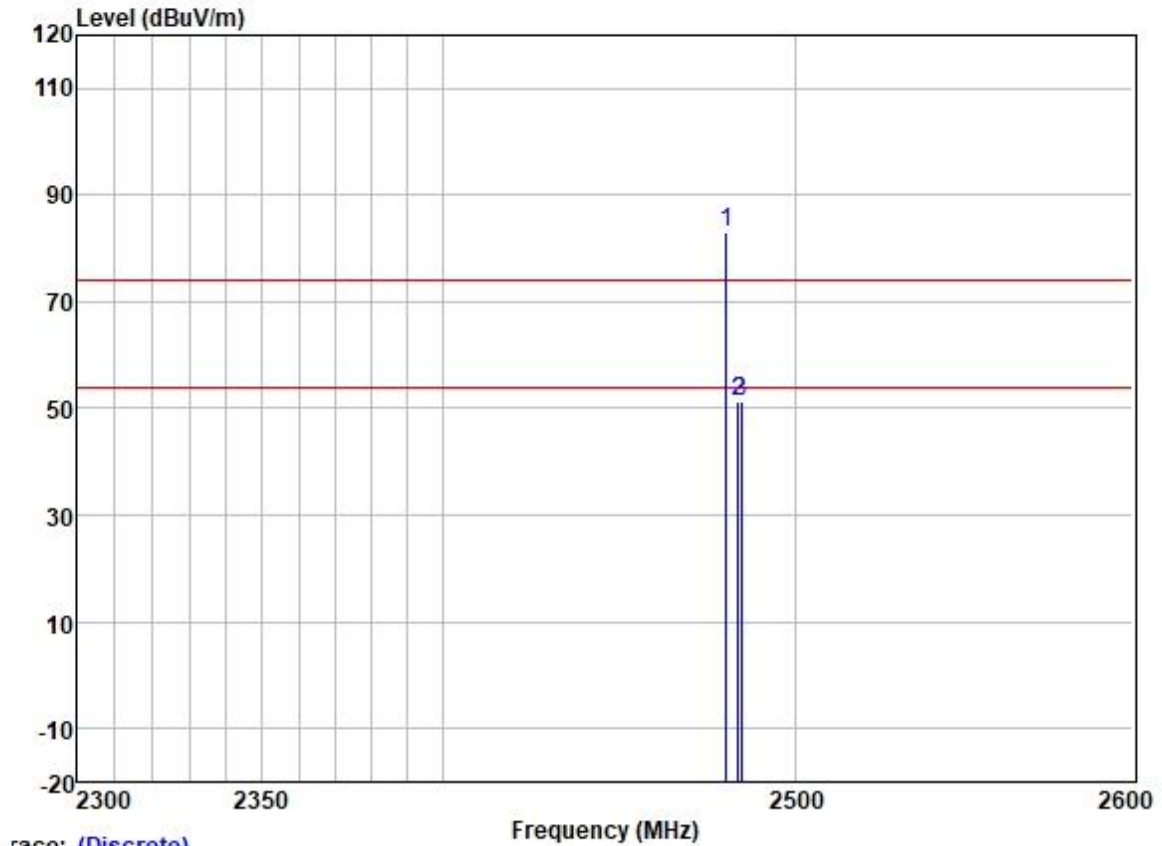
Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

	Freq	Read	Antenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 *	2480.000	88.22	27.47	3.60	37.57	81.72	74.00	7.72	HORIZONTAL Peak
2	2483.500	57.99	27.48	3.53	37.57	51.43	74.00	-22.57	HORIZONTAL Peak
3	2494.278	58.79	27.49	3.47	37.56	52.19	74.00	-21.81	HORIZONTAL Peak

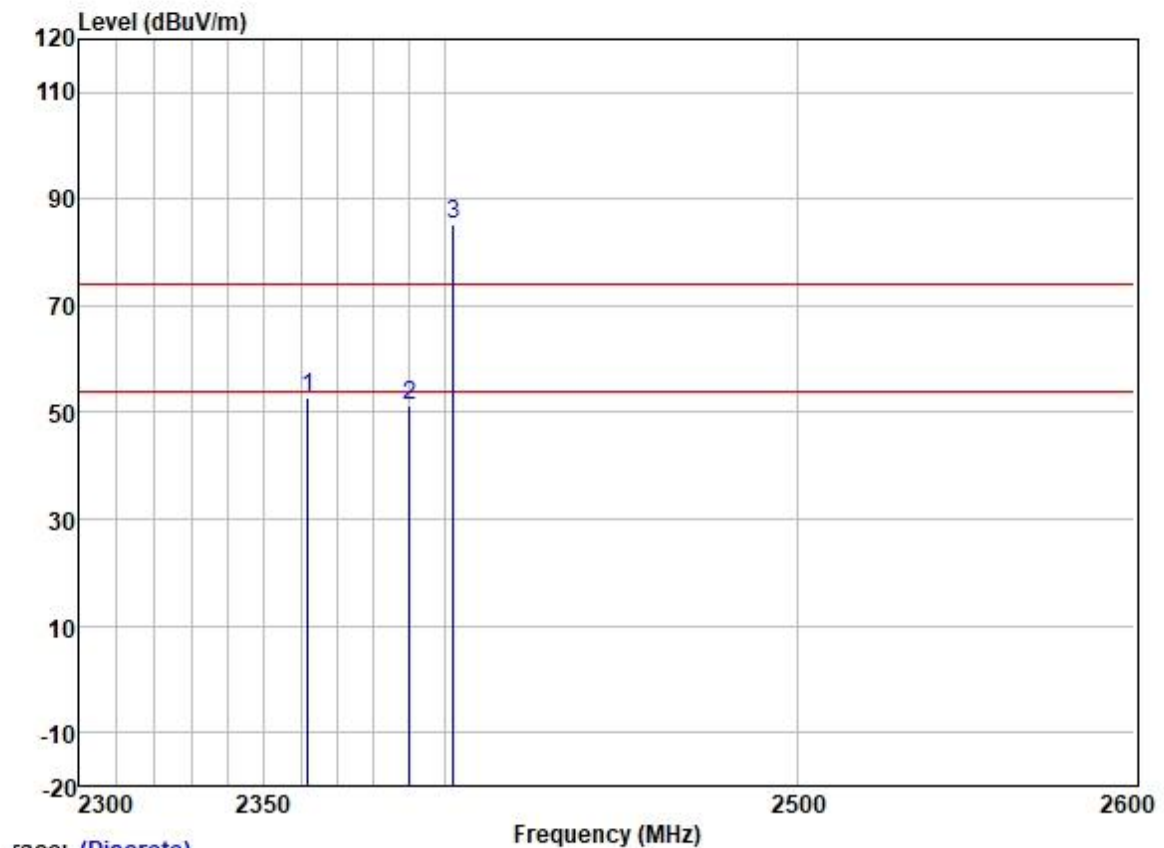
Test Mode: 07; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2480.000	89.37	27.47	3.60	37.57	82.87	74.00	8.87	VERTICAL	Peak
2	2483.500	57.78	27.48	3.53	37.57	51.22	74.00	-22.78	VERTICAL	Peak
3	2484.196	57.77	27.48	3.53	37.57	51.21	74.00	-22.79	VERTICAL	Peak

Test Mode: 08; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



race: (Discrete)

	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2361.871	59.83	27.27	3.42	37.61	52.91	74.00	-21.09	HORIZONTAL	Peak
2	2390.000	58.06	27.33	3.48	37.59	51.28	74.00	-22.72	HORIZONTAL	Peak
3 *	2402.000	92.01	27.35	3.50	37.59	85.27	74.00	11.27	HORIZONTAL	Peak

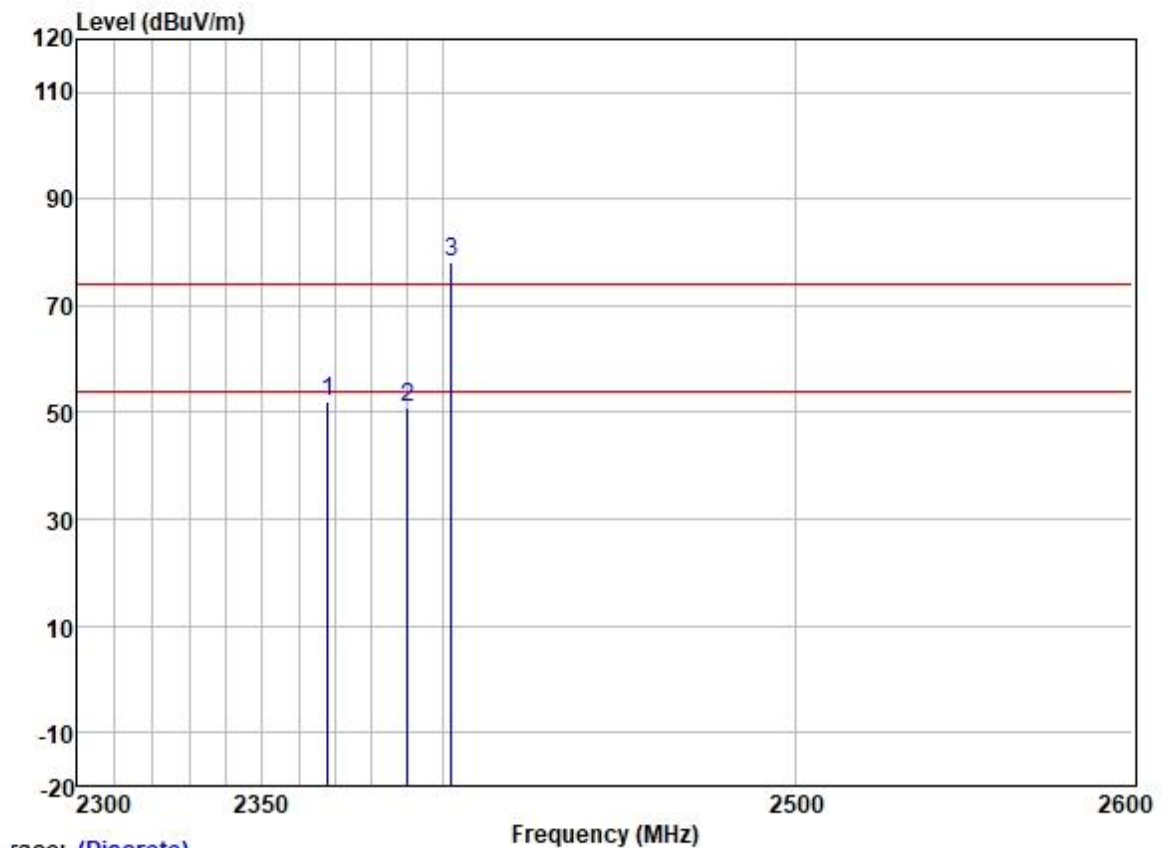


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SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory.

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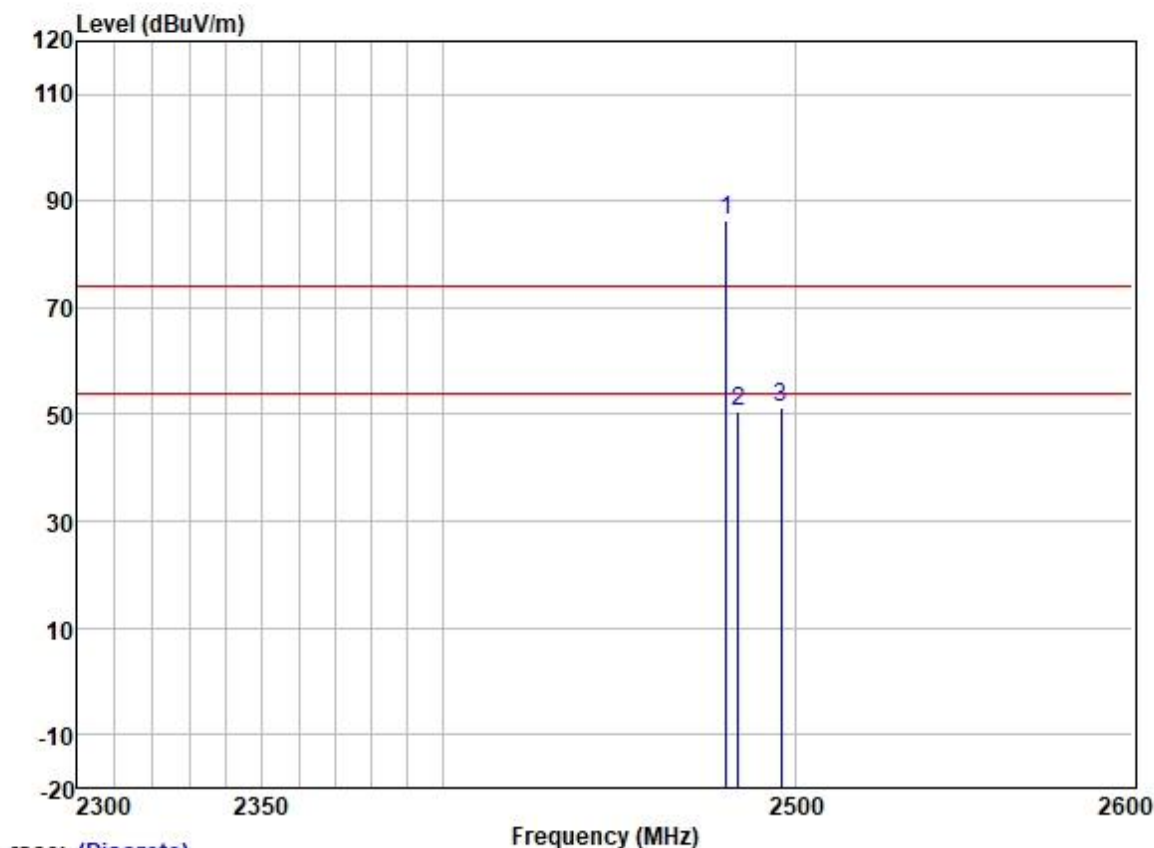
Test Mode: 08; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2367.885	58.93	27.28	3.43	37.60	52.04	74.00	-21.96	VERTICAL	Peak
2	2390.000	57.56	27.33	3.48	37.59	50.78	74.00	-23.22	VERTICAL	Peak
3 *	2402.000	84.85	27.35	3.50	37.59	78.11	74.00	4.11	VERTICAL	Peak

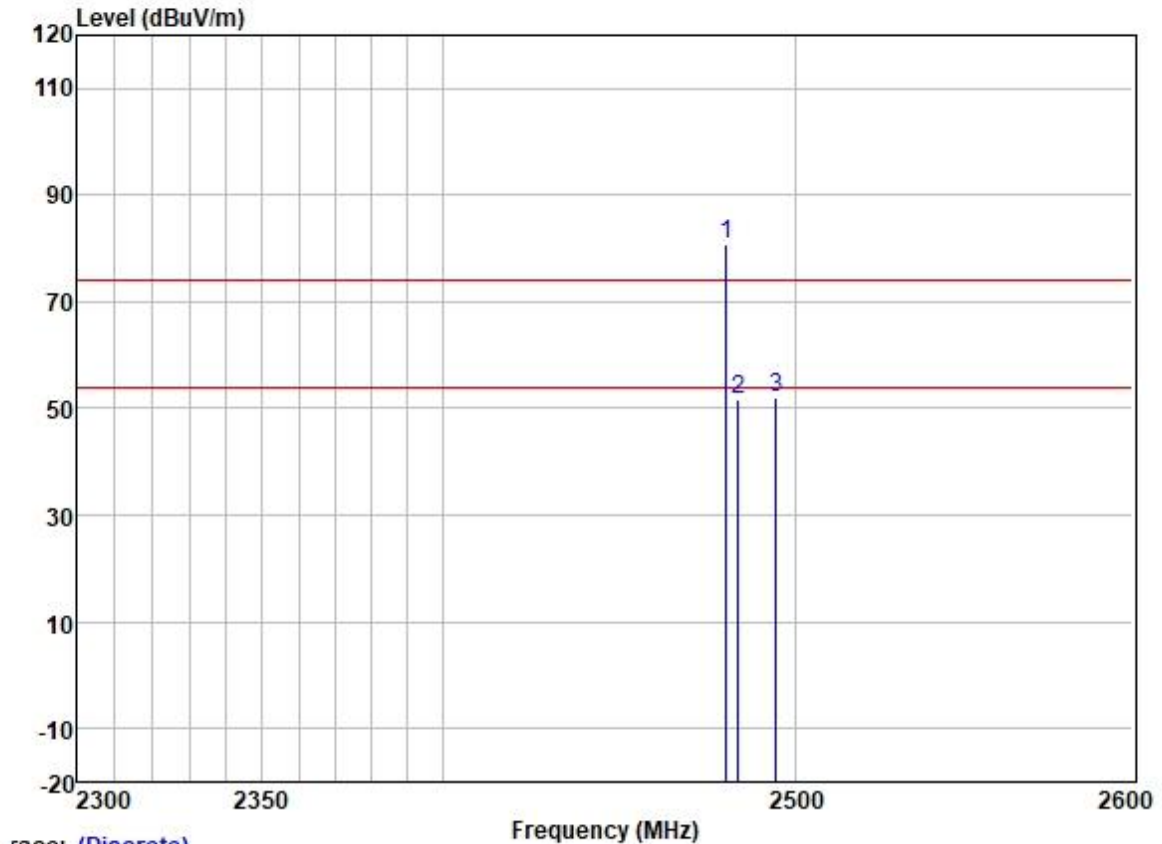
Test Mode: 08; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp	Limit	Over		
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 *	2480.000	92.81	27.47	3.60	37.57	86.31	74.00	12.31
2	2483.500	57.28	27.48	3.53	37.57	50.72	74.00	-23.28
3	2495.782	57.74	27.49	3.47	37.56	51.14	74.00	-22.86

Test Mode: 08; Polarity: Vertical; Modulation:GFSK; ; Channel:High



Trace: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
		Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2480.000	87.24	27.47	3.60	37.57	80.74	74.00	6.74	VERTICAL	Peak
2	2483.500	58.33	27.48	3.53	37.57	51.77	74.00	-22.23	VERTICAL	Peak
3	2494.303	58.67	27.49	3.47	37.56	52.07	74.00	-21.93	VERTICAL	Peak

6.2 Radiated Spurious Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C

Humidity: 60 % RH

Atmospheric Pressure: 1003 mbar

6.2.2 Test Mode Description

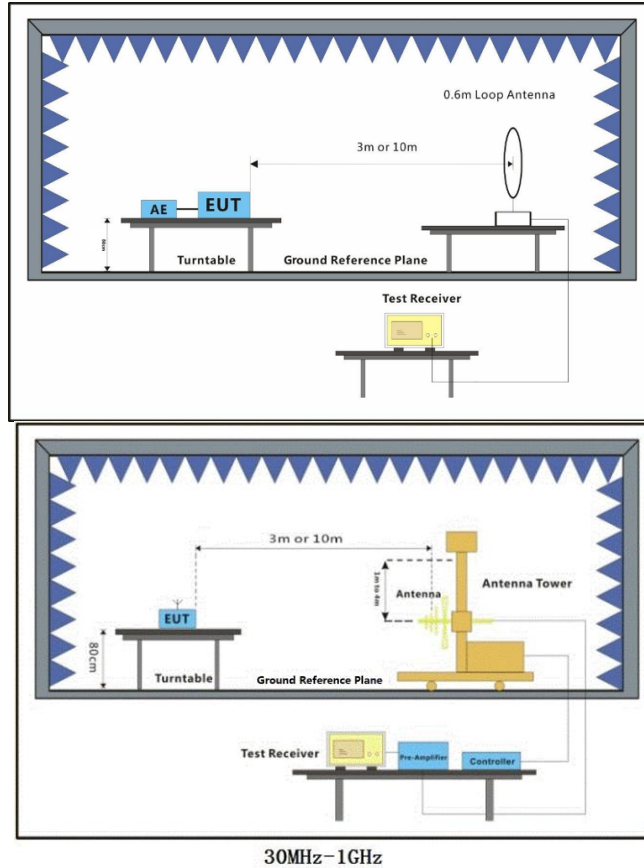
Pre-scan / Final test	Mode Code	Description
Pre-scan	07	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	08	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.



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6.2.3 Test Setup Diagram



6.2.4 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. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1) 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

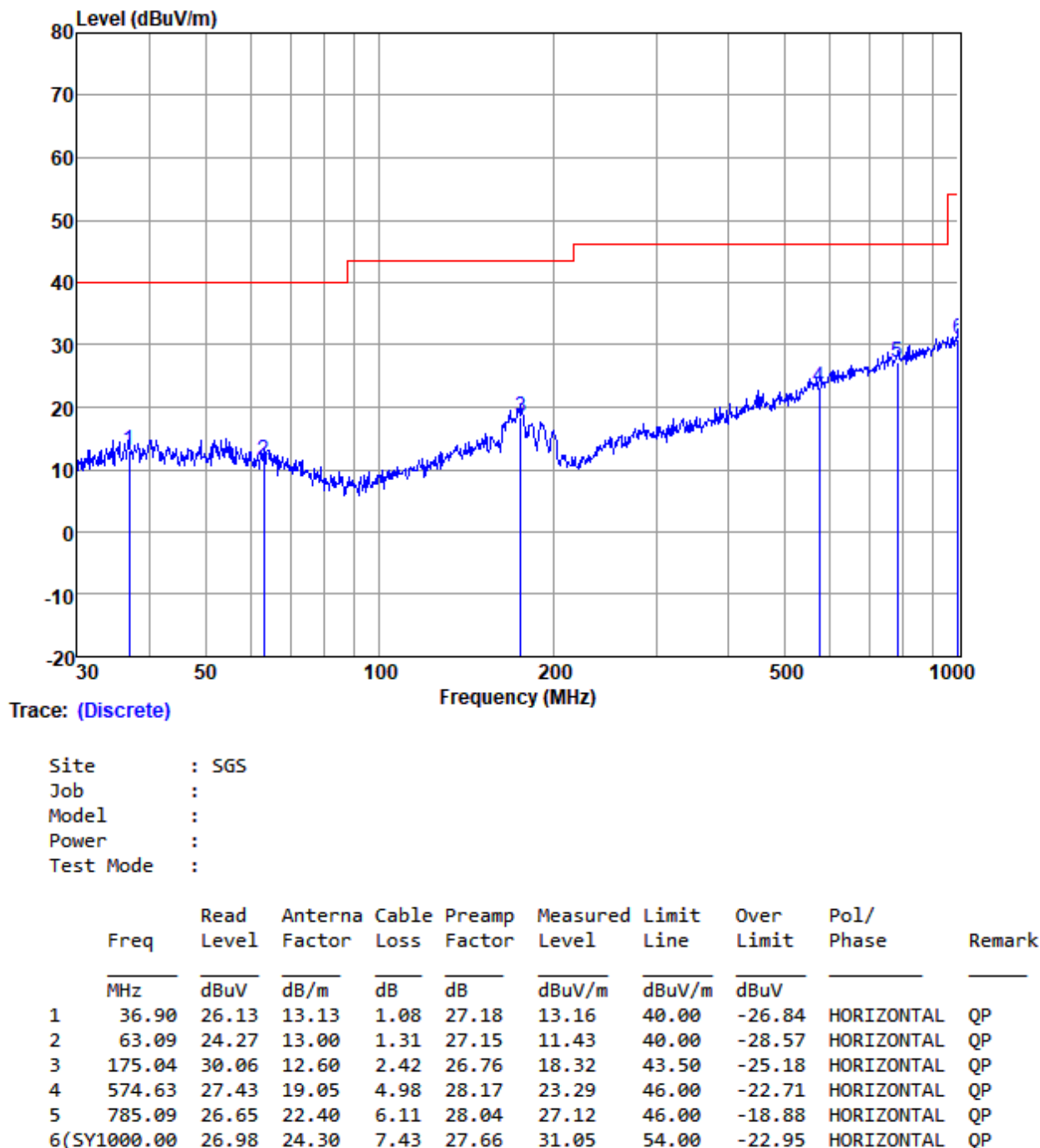
- 3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



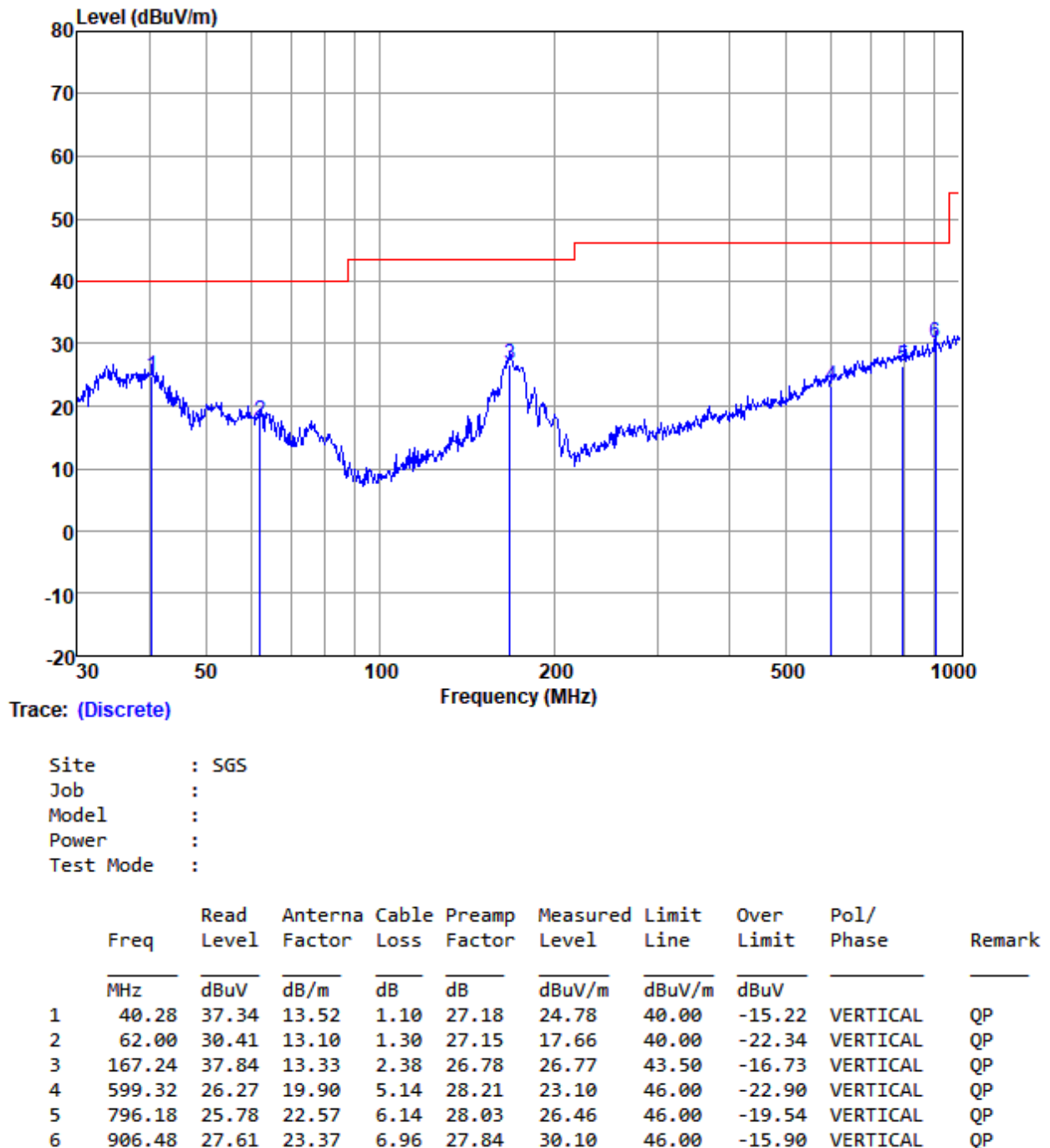
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Test Mode: 08; Polarity: Horizontal



Test Mode: 08; Polarity: Vertical



6.3 Radiated Spurious Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

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

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 25.5 °C

Humidity: 60 % RH

Atmospheric Pressure: 1003 mbar

6.3.2 Test Mode Description

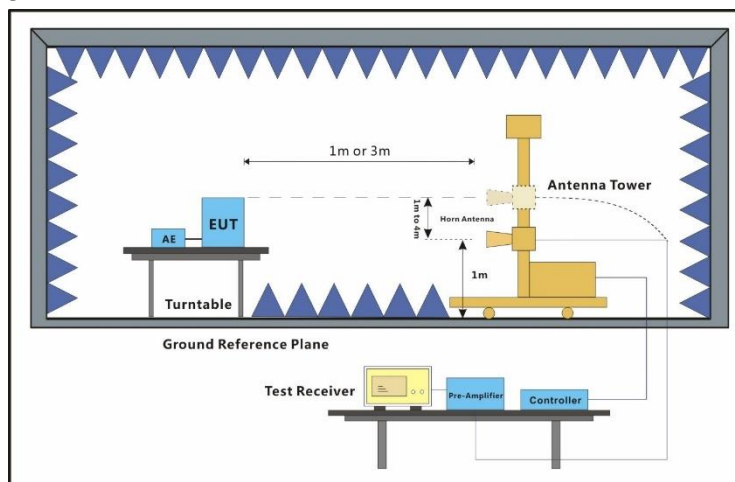
Pre-scan / Final test	Mode Code	Description
Final test	07	Charge + TX mode(1Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	08	Charge + TX mode(2Mbps)_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.



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6.3.3 Test Setup Diagram



6.3.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

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) Scan from 1GHz to 25GHz, the disturbance above 18GHz 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.

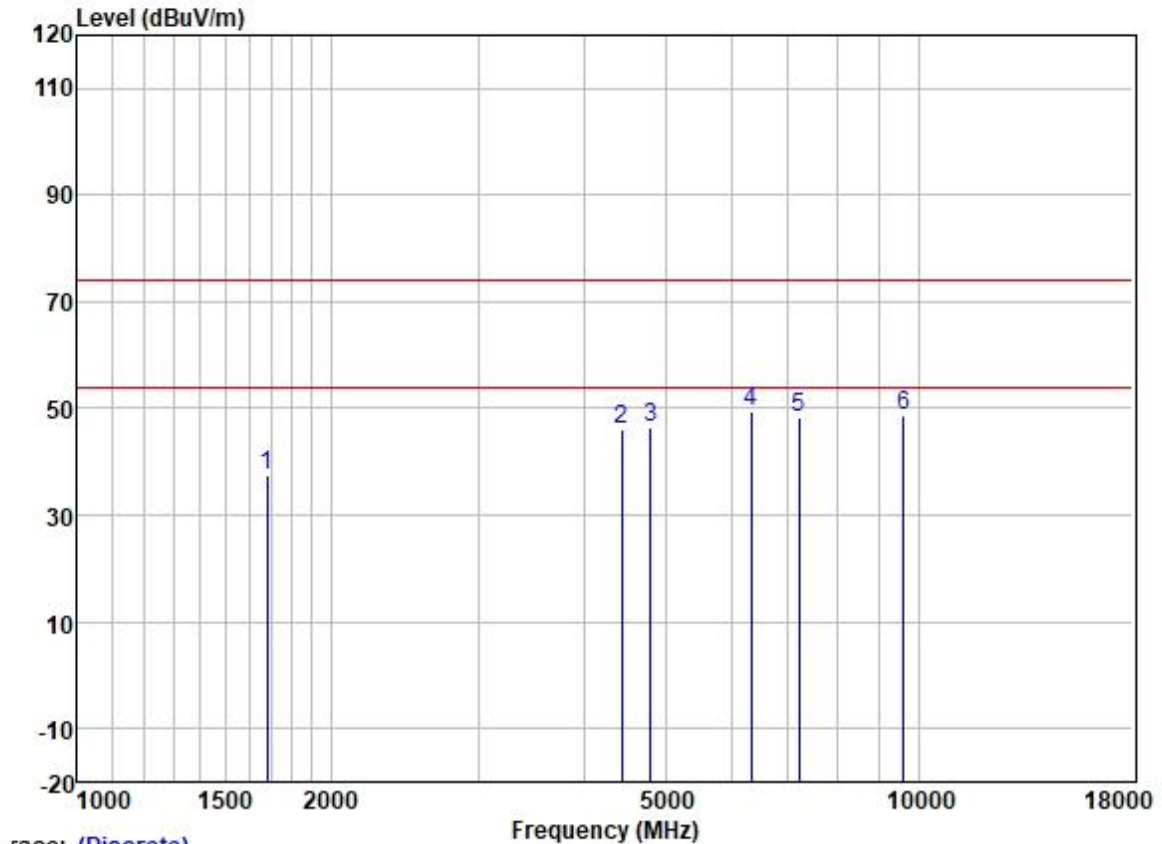
3) The field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only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



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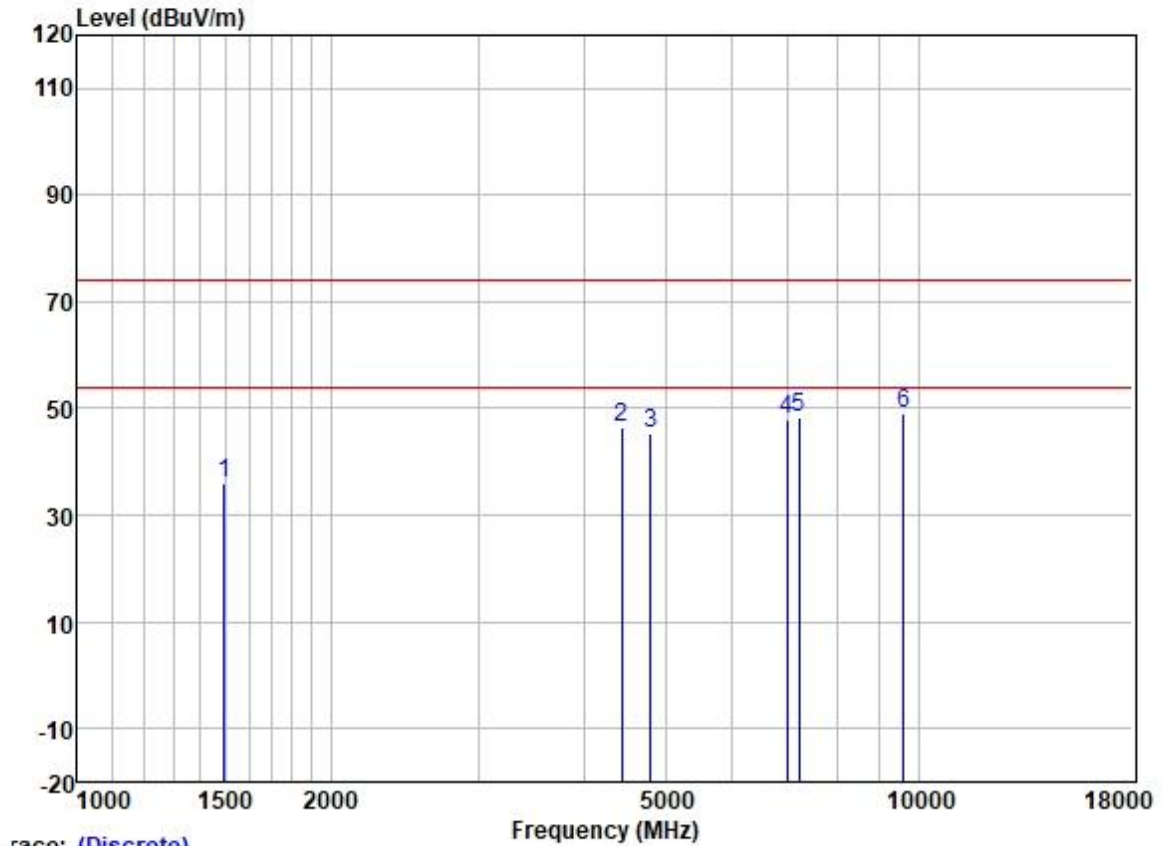
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race: (Discrete)

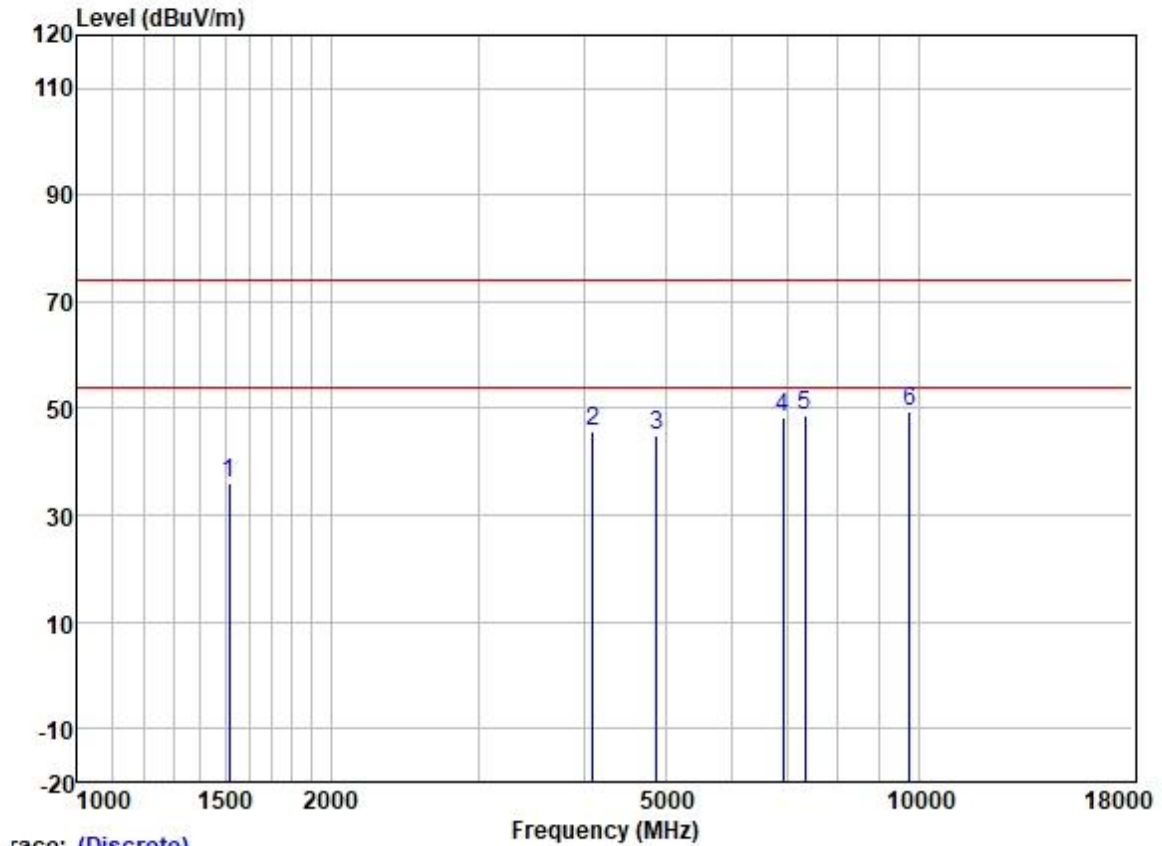
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	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1682.477	46.89	25.68	2.80	37.91	37.46	74.00	-36.54	HORIZONTAL	Peak
2	4443.453	47.28	30.73	4.83	36.81	46.03	74.00	-27.97	HORIZONTAL	Peak
3	4804.000	46.28	31.42	5.40	36.83	46.27	74.00	-27.73	HORIZONTAL	Peak
4	6322.136	46.79	33.51	5.95	36.97	49.28	74.00	-24.72	HORIZONTAL	Peak
5	7206.000	44.32	35.54	5.98	37.38	48.46	74.00	-25.54	HORIZONTAL	Peak
6	9608.000	40.60	38.37	7.07	37.42	48.62	74.00	-25.38	HORIZONTAL	Peak

Test Mode: 07; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



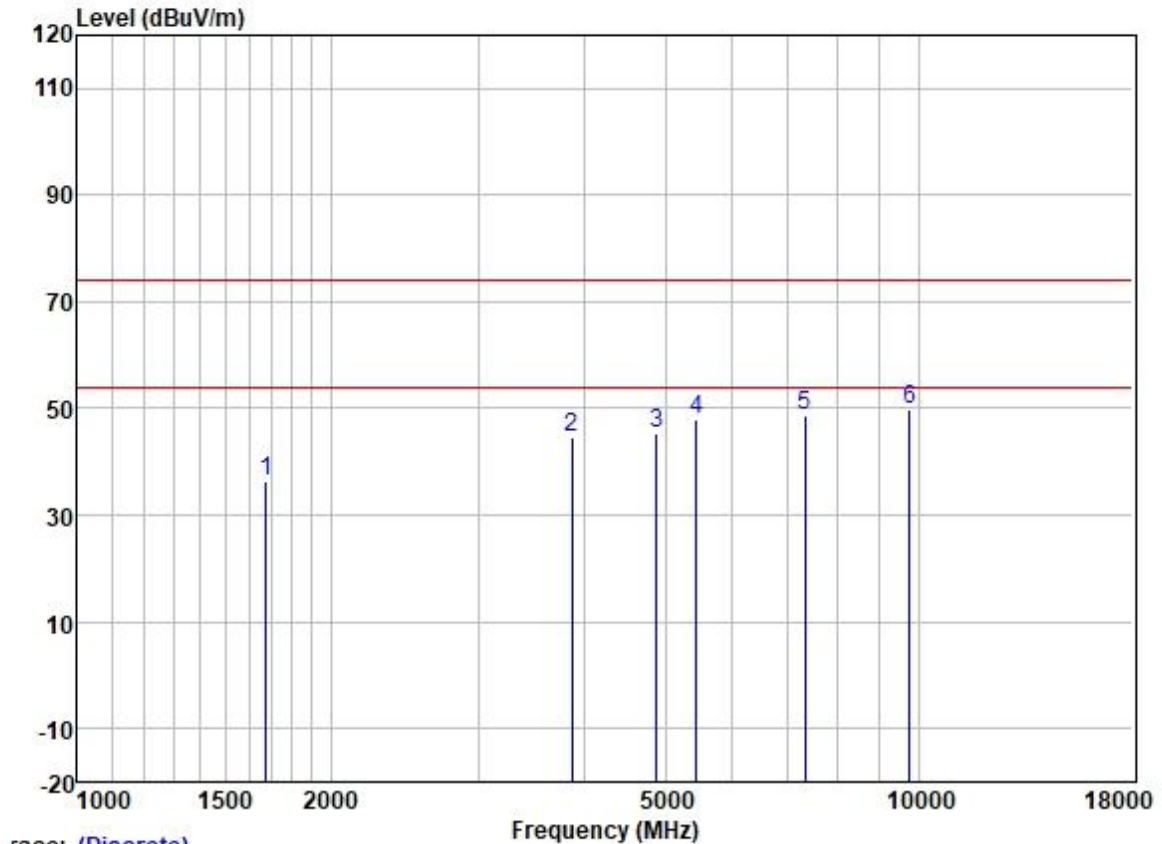
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	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1494.455	45.77	25.50	2.79	38.10	35.96	74.00	-38.04	VERTICAL	Peak
2	4443.453	47.61	30.73	4.83	36.81	46.36	74.00	-27.64	VERTICAL	Peak
3	4804.000	45.23	31.42	5.40	36.83	45.22	74.00	-28.78	VERTICAL	Peak
4	6974.982	44.57	34.97	5.81	37.23	48.12	74.00	-25.88	VERTICAL	Peak
5	7206.000	44.08	35.54	5.98	37.38	48.22	74.00	-25.78	VERTICAL	Peak
6	9608.000	40.87	38.37	7.07	37.42	48.89	74.00	-25.11	VERTICAL	Peak

Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over		
	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1516.210	45.85	25.51	2.80	38.07	36.09	74.00	-37.91	HORIZONTAL Peak
2	4098.010	47.92	29.94	4.60	36.80	45.66	74.00	-28.34	HORIZONTAL Peak
3	4880.000	44.94	31.54	5.50	36.84	45.14	74.00	-28.86	HORIZONTAL Peak
4	6894.806	44.70	34.85	5.81	37.18	48.18	74.00	-25.82	HORIZONTAL Peak
5	7320.000	43.82	36.00	6.13	37.43	48.52	74.00	-25.48	HORIZONTAL Peak
6	9760.000	41.31	38.50	7.02	37.41	49.42	74.00	-24.58	HORIZONTAL Peak

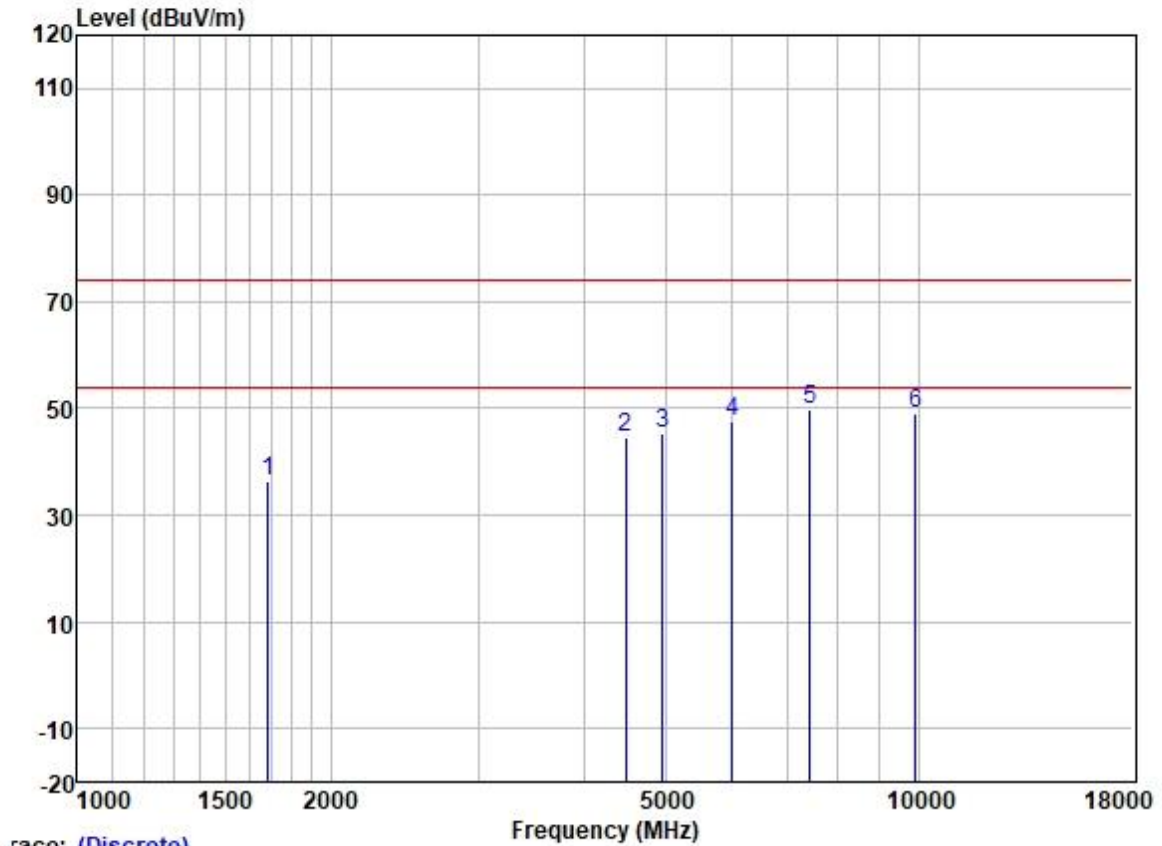
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Trace: (Discrete)

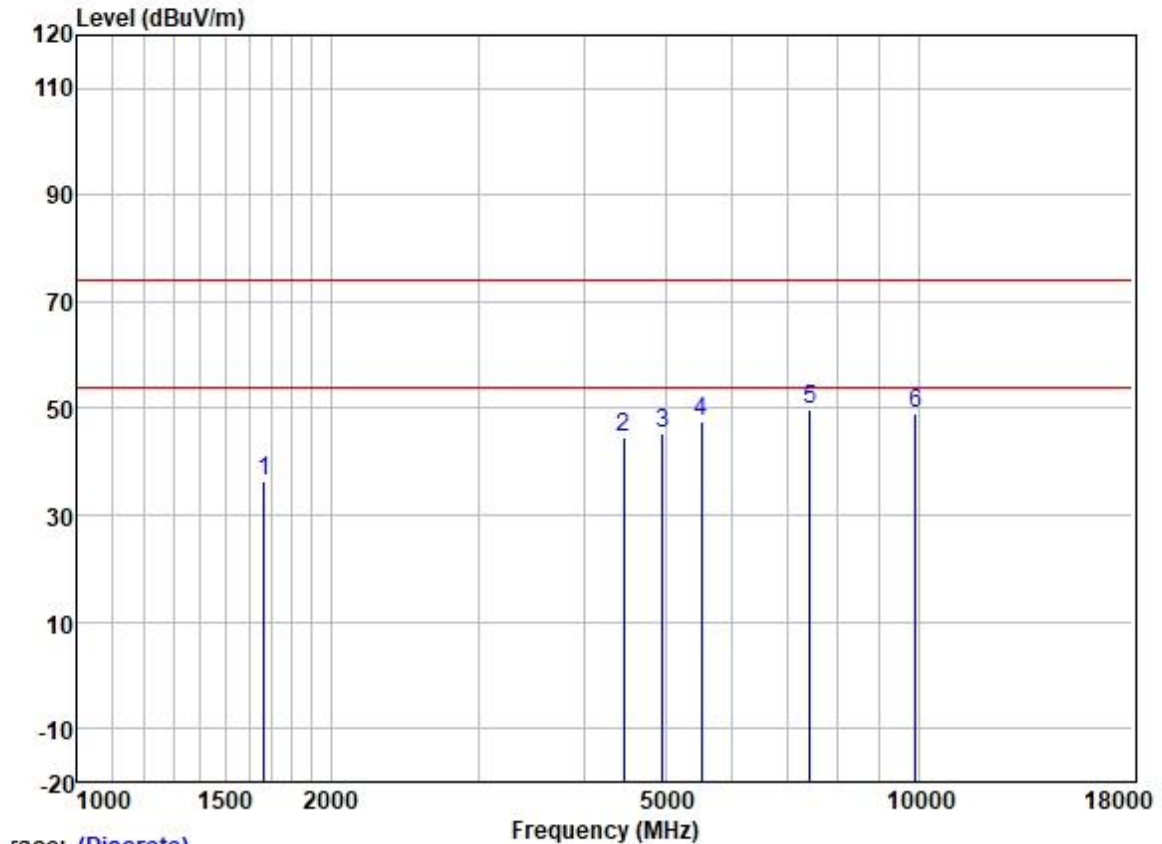
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	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1677.621	45.76	25.68	2.80	37.91	36.33	74.00	-37.67	VERTICAL	Peak
2	3867.831	47.06	29.64	4.60	36.83	44.47	74.00	-29.53	VERTICAL	Peak
3	4880.000	45.31	31.54	5.50	36.84	45.51	74.00	-28.49	VERTICAL	Peak
4	5439.885	46.88	31.79	6.20	36.88	47.99	74.00	-26.01	VERTICAL	Peak
5	7320.000	44.11	36.00	6.13	37.43	48.81	74.00	-25.19	VERTICAL	Peak
6	9760.000	41.52	38.50	7.02	37.41	49.63	74.00	-24.37	VERTICAL	Peak

Test Mode: 07; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1687.347	45.97	25.69	2.80	37.91	36.55	74.00	-37.45	HORIZONTAL	Peak
2	4482.150	45.78	30.78	4.99	36.81	44.74	74.00	-29.26	HORIZONTAL	Peak
3	4960.000	44.92	31.65	5.65	36.84	45.38	74.00	-28.62	HORIZONTAL	Peak
4	6001.626	46.01	32.40	6.20	36.90	47.71	74.00	-26.29	HORIZONTAL	Peak
5	7440.000	44.86	36.27	6.22	37.47	49.88	74.00	-24.12	HORIZONTAL	Peak
6	9920.000	40.78	38.65	6.96	37.40	48.99	74.00	-25.01	HORIZONTAL	Peak

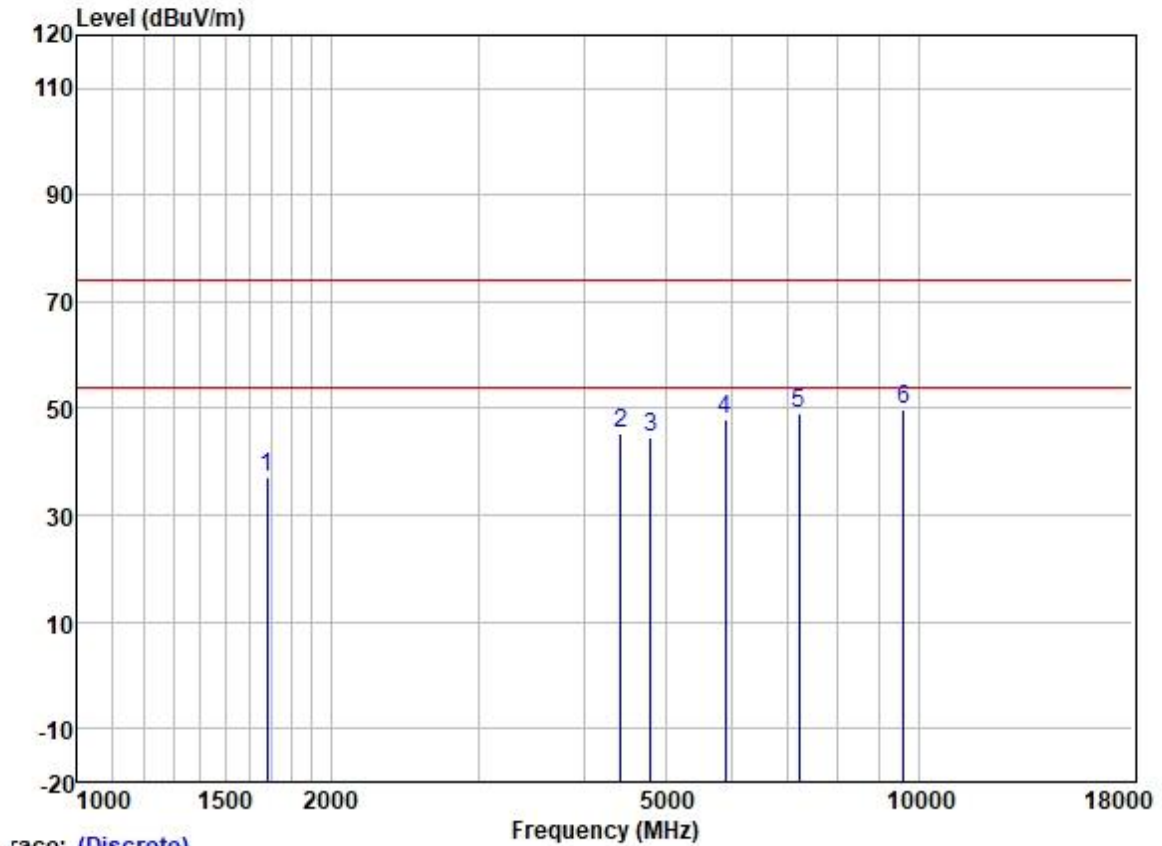
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race: (Discrete)

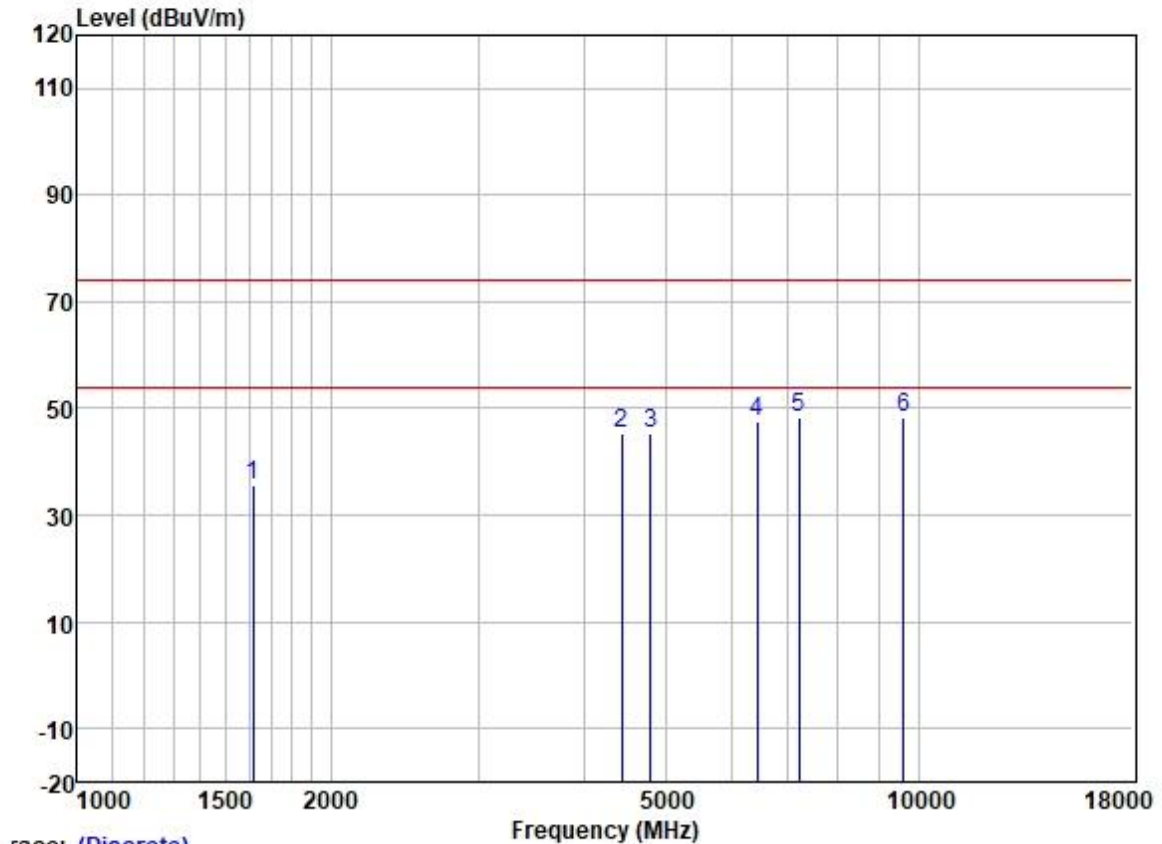
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	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1667.951	45.87	25.66	2.80	37.91	36.42	74.00	-37.58	VERTICAL	Peak
2	4456.315	45.88	30.75	4.88	36.81	44.70	74.00	-29.30	VERTICAL	Peak
3	4960.000	44.96	31.65	5.65	36.84	45.42	74.00	-28.58	VERTICAL	Peak
4	5519.072	46.27	31.81	6.38	36.89	47.57	74.00	-26.43	VERTICAL	Peak
5	7440.000	44.93	36.27	6.22	37.47	49.95	74.00	-24.05	VERTICAL	Peak
6	9920.000	41.04	38.65	6.96	37.40	49.25	74.00	-24.75	VERTICAL	Peak

Test Mode: 08; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low



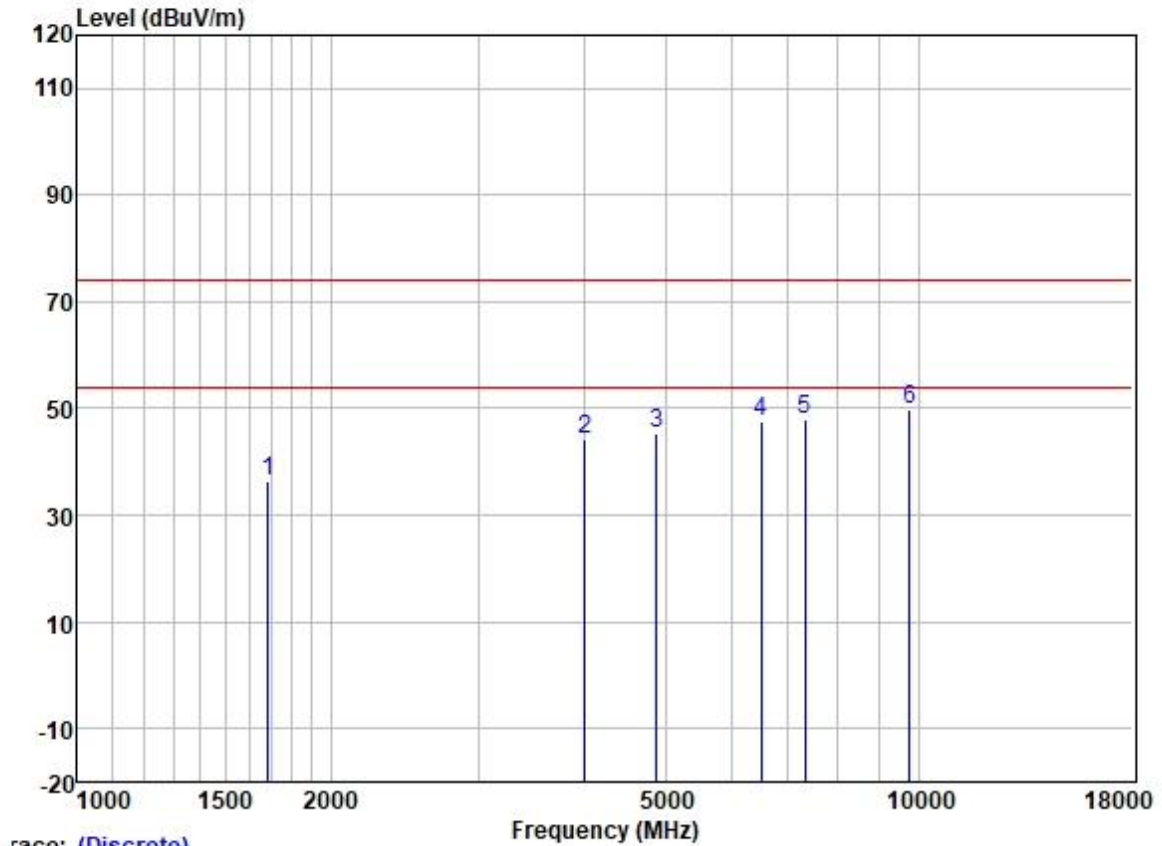
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	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1682.477	46.37	25.68	2.80	37.91	36.94	74.00	-37.06	HORIZONTAL Peak
2	4430.628	46.69	30.72	4.78	36.81	45.38	74.00	-28.62	HORIZONTAL Peak
3	4804.000	44.75	31.42	5.40	36.83	44.74	74.00	-29.26	HORIZONTAL Peak
4	5898.442	46.69	32.31	5.90	36.90	48.00	74.00	-26.00	HORIZONTAL Peak
5	7206.000	44.79	35.54	5.98	37.38	48.93	74.00	-25.07	HORIZONTAL Peak
6	9608.000	41.81	38.37	7.07	37.42	49.83	74.00	-24.17	HORIZONTAL Peak

Test Mode: 08; Polarity: Vertical; Modulation:GFSK; ; Channel:Low



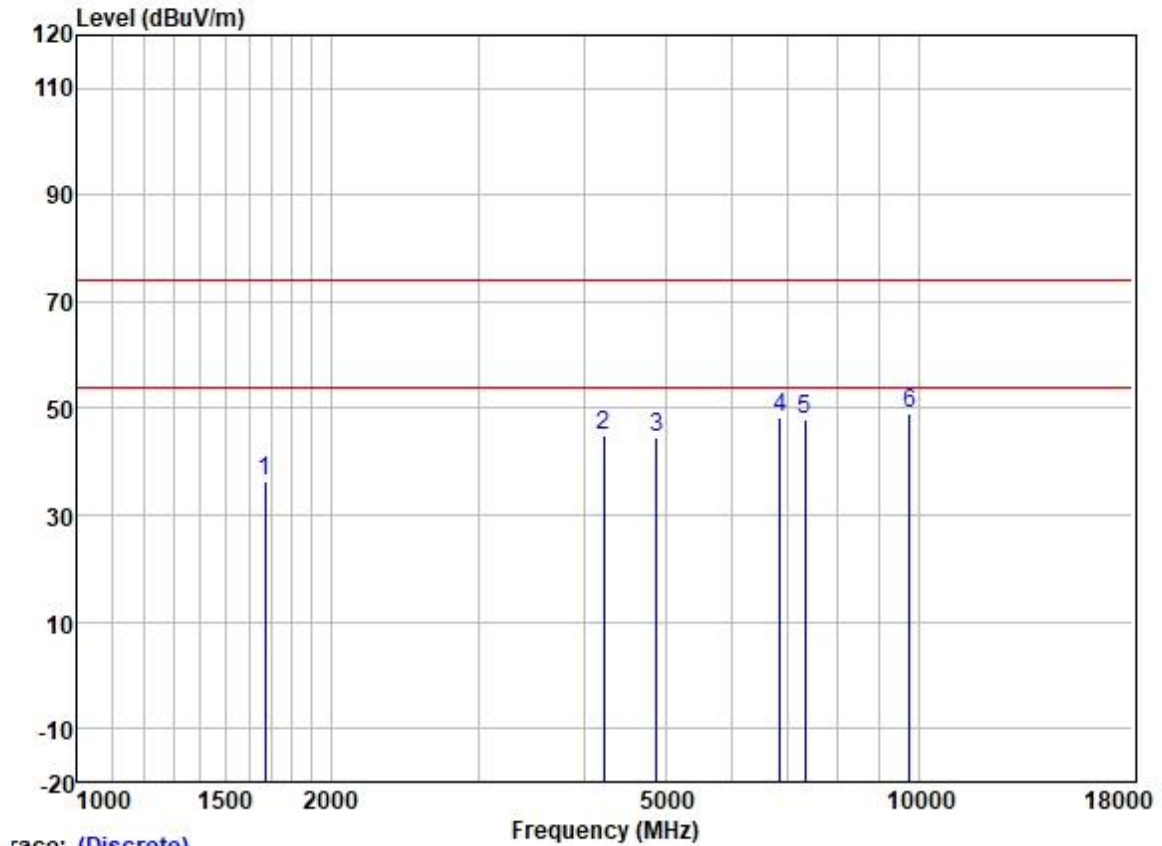
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1615.754	45.26	25.60	2.80	37.95	35.71	74.00	-38.29	VERTICAL	Peak
2	4443.453	46.61	30.73	4.83	36.81	45.36	74.00	-28.64	VERTICAL	Peak
3	4804.000	45.26	31.42	5.40	36.83	45.25	74.00	-28.75	VERTICAL	Peak
4	6432.732	44.83	33.83	5.88	36.99	47.55	74.00	-26.45	VERTICAL	Peak
5	7206.000	44.30	35.54	5.98	37.38	48.44	74.00	-25.56	VERTICAL	Peak
6	9608.000	40.38	38.37	7.07	37.42	48.40	74.00	-25.60	VERTICAL	Peak

Test Mode: 08; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle



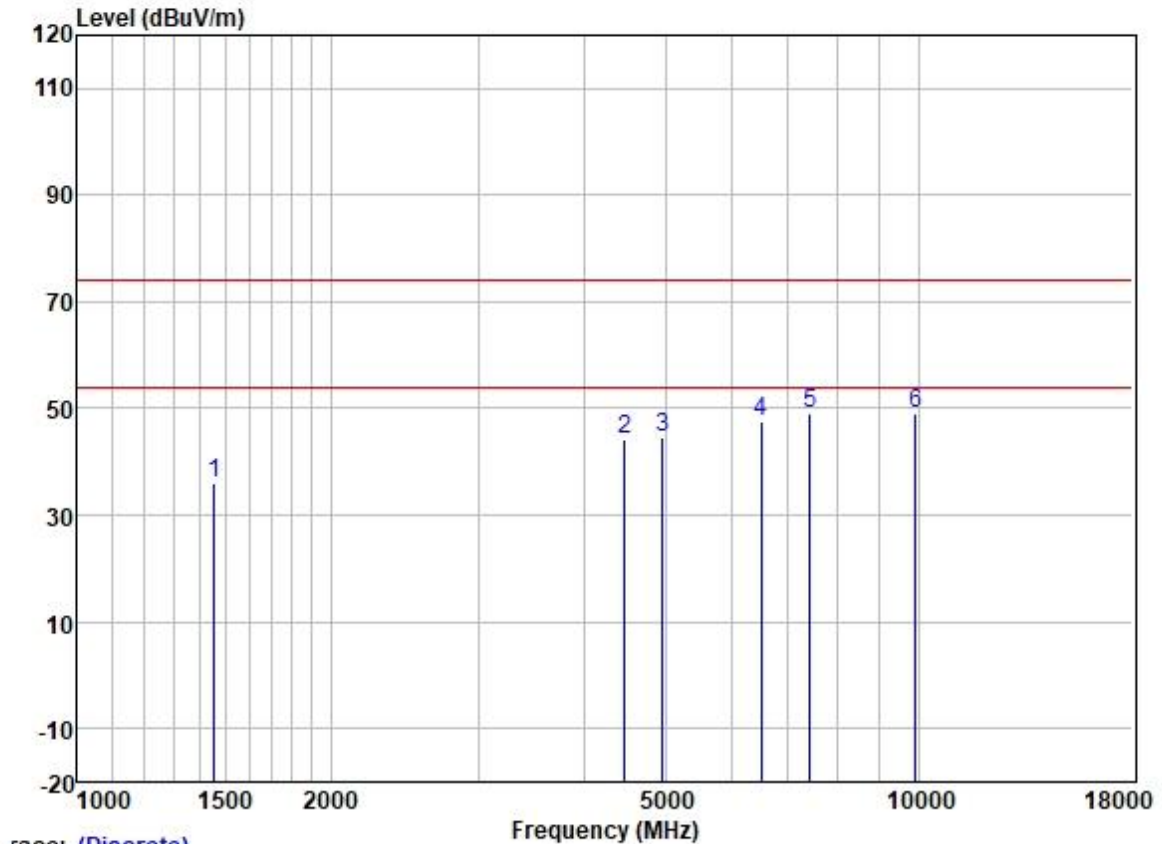
	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1687.347	45.84	25.69	2.80	37.91	36.42	74.00	-37.58	HORIZONTAL	Peak
2	4015.929	46.66	29.82	4.60	36.80	44.28	74.00	-29.72	HORIZONTAL	Peak
3	4880.000	45.03	31.54	5.50	36.84	45.23	74.00	-28.77	HORIZONTAL	Peak
4	6507.536	44.91	34.00	5.84	37.01	47.74	74.00	-26.26	HORIZONTAL	Peak
5	7320.000	43.07	36.00	6.13	37.43	47.77	74.00	-26.23	HORIZONTAL	Peak
6	9760.000	41.56	38.50	7.02	37.41	49.67	74.00	-24.33	HORIZONTAL	Peak

Test Mode: 08; Polarity: Vertical; Modulation:GFSK; ; Channel:middle



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1672.779	45.72	25.67	2.80	37.91	36.28	74.00	-37.72	VERTICAL	Peak
2	4230.396	46.87	30.26	4.61	36.81	44.93	74.00	-29.07	VERTICAL	Peak
3	4880.000	44.32	31.54	5.50	36.84	44.52	74.00	-29.48	VERTICAL	Peak
4	6855.063	45.00	34.78	5.82	37.15	48.45	74.00	-25.55	VERTICAL	Peak
5	7320.000	43.07	36.00	6.13	37.43	47.77	74.00	-26.23	VERTICAL	Peak
6	9760.000	41.13	38.50	7.02	37.41	49.24	74.00	-24.76	VERTICAL	Peak

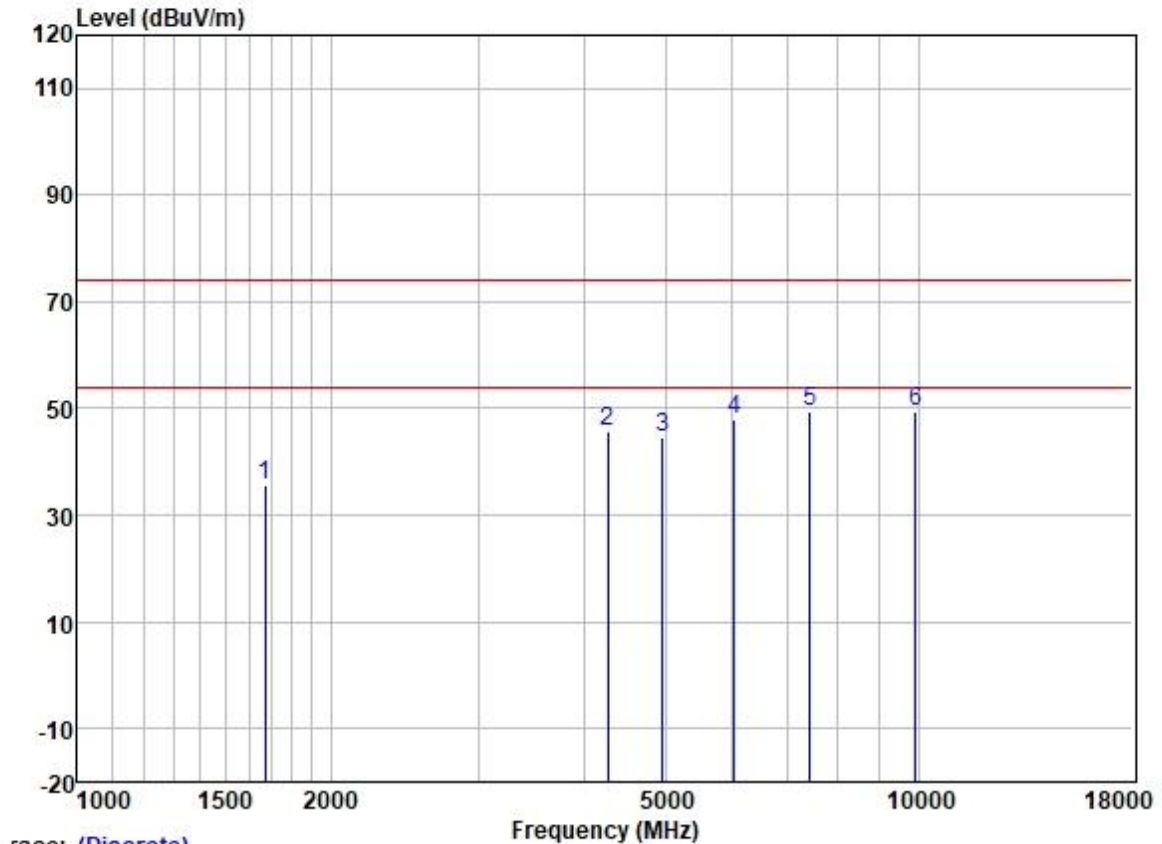
Test Mode: 08; Polarity: Horizontal; Modulation:GFSK; ; Channel:High



race: (Discrete)

	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1456.081	45.92	25.46	2.72	38.17	35.93	74.00	-38.07	HORIZONTAL	Peak
2	4469.214	45.44	30.77	4.93	36.81	44.33	74.00	-29.67	HORIZONTAL	Peak
3	4960.000	44.28	31.65	5.65	36.84	44.74	74.00	-29.26	HORIZONTAL	Peak
4	6507.536	44.83	34.00	5.84	37.01	47.66	74.00	-26.34	HORIZONTAL	Peak
5	7440.000	44.16	36.27	6.22	37.47	49.18	74.00	-24.82	HORIZONTAL	Peak
6	9920.000	40.91	38.65	6.96	37.40	49.12	74.00	-24.88	HORIZONTAL	Peak

Test Mode: 08; Polarity: Vertical; Modulation:GFSK; ; Channel:High



	Freq	ReadAntenna	Cable	Preamp		Limit	Over			
	MHz	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1672.779	45.02	25.67	2.80	37.91	35.58	74.00	-38.42	VERTICAL	Peak
2	4267.237	47.48	30.38	4.63	36.81	45.68	74.00	-28.32	VERTICAL	Peak
3	4960.000	44.25	31.65	5.65	36.84	44.71	74.00	-29.29	VERTICAL	Peak
4	6036.421	46.10	32.48	6.18	36.90	47.86	74.00	-26.14	VERTICAL	Peak
5	7440.000	44.49	36.27	6.22	37.47	49.51	74.00	-24.49	VERTICAL	Peak
6	9920.000	41.08	38.65	6.96	37.40	49.29	74.00	-24.71	VERTICAL	Peak

7 Test Setup Photo

Refer to Appendix - Setup Photos-BTWIFI for GZCR2109021139AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix - External Photos & Internal Photos for GZCR2109021139AT

- End of the Report -