

TEST REPORT

Application No.: SZEM2005003845CR
Applicant: CHENGHAI DISTRICT, SHANTOU CITY, LEI MENG ANIMATION TOYS CO., LTD.
Address of Applicant: Yuannianggong Farm, Tashan Road, Tucheng Village, Lianshang Town, Chenghai District, Shantou, China.
Manufacturer: CHENGHAI DISTRICT, SHANTOU CITY, LEI MENG ANIMATION TOYS CO., LTD.
Address of Manufacturer: Yuannianggong Farm, Tashan Road, Tucheng Village, Lianshang Town, Chenghai District, Shantou, China.

Equipment Under Test (EUT):**EUT Name:** Toy car series**Model No.:** LM6011-YZ-1, LM6012-YZ-1, LM6013-YZ-1, LM6014-YZ-1, LM6015-YZ-1, LM6016-YZ-1, LM6021-YZ-1, LM6022-YZ-1, LM6023-YZ-1, LM6024-YZ-1, LM6031-YZ-1, LM6032-YZ-1, LM6033-YZ-1, LM6034-YZ-1, LM6041-YZ-1, LM6042-YZ-1, LM6043-YZ-1, LM6044-YZ-1, LM6051-YZ-1, LM6052-YZ-1, LM6053-YZ-1, LM6054-YZ-1, LM6061-YZ-1, LM6062-YZ-1, LM6063-YZ-1, LM6064-YZ-1, LM6011-YY-1, LM6012-YY-1, LM6013-YY-1, LM6014-YY-1, LM6015-YY-1, LM6016-YY-1, LM6011-YY-2, LM6011-YY-3, LM6011-YY-4, LM6011-YY-5, LM6011-YY-6, LM6021-YY-1, LM6022-YY-1, LM6023-YY-1, LM6024-YY-1, LM6021-YY-2, LM6021-YY-3, LM6021-YY-4, LM6031-YY-1, LM6032-YY-1, LM6033-YY-1, LM6034-YY-1, LM6031-YY-2, LM6031-YY-3, LM6031-YY-4, LM6041-YY-1, LM6042-YY-1, LM6043-YY-1, LM6044-YY-1, LM6041-YY-2, LM6041-YY-3, LM6041-YY-4, LM6051-YY-1, LM6052-YY-1, LM6053-YY-1, LM6054-YY-1, LM6051-YY-2, LM6051-YY-3, LM6051-YY-4, LM6061-YY-1, LM6062-YY-1, LM6063-YY-1, LM6064-YY-1, LM6061-YY-2, LM6061-YY-3, LM6061-YY-4

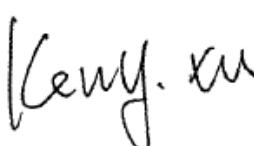
♣

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

FCC ID: 2AR2E85130348**Standard(s) :** 47 CFR Part 15, Subpart C 15.249**Date of Receipt:** 2020-05-15**Date of Test:** 2020-05-15-2020-05-19**Date of Issue:** 2020-05-21

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



Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-05-21		Original

Authorized for issue by:			
		 Peter Geng	
		Peter Geng /Project Engineer	
		 Eric Fu	
		Eric Fu /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))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass

Remark:

Model No.: LM6011-YZ-1, LM6012-YZ-1, LM6013-YZ-1, LM6014-YZ-1, LM6015-YZ-1, LM6016-YZ-1, LM6021-YZ-1, LM6022-YZ-1, LM6023-YZ-1, LM6024-YZ-1, LM6031-YZ-1, LM6032-YZ-1, LM6033-YZ-1, LM6034-YZ-1, LM6041-YZ-1, LM6042-YZ-1, LM6043-YZ-1, LM6044-YZ-1, LM6051-YZ-1, LM6052-YZ-1, LM6053-YZ-1, LM6054-YZ-1, LM6061-YZ-1, LM6062-YZ-1, LM6063-YZ-1, LM6064-YZ-1, LM6011-YY-1, LM6012-YY-1, LM6013-YY-1, LM6014-YY-1, LM6015-YY-1, LM6016-YY-1, LM6011-YY-2, LM6011-YY-3, LM6011-YY-4, LM6011-YY-5, LM6011-YY-6, LM6021-YY-1, LM6022-YY-1, LM6023-YY-1, LM6024-YY-1, LM6021-YY-2, LM6021-YY-3, LM6021-YY-4, LM6031-YY-1, LM6032-YY-1, LM6033-YY-1, LM6034-YY-1, LM6031-YY-2, LM6031-YY-3, LM6031-YY-4, LM6041-YY-1, LM6042-YY-1, LM6043-YY-1, LM6044-YY-1, LM6041-YY-2, LM6041-YY-3, LM6041-YY-4, LM6051-YY-1, LM6052-YY-1, LM6053-YY-1, LM6054-YY-1, LM6051-YY-2, LM6051-YY-3, LM6051-YY-4, LM6061-YY-1, LM6062-YY-1, LM6063-YY-1, LM6064-YY-1, LM6061-YY-2, LM6061-YY-3, LM6061-YY-4

Only the model LM6011-YZ-1 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on color, appearance and packaging.

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4 General Information

4.1 Details of E.U.T.

Power Supply:	remote: DC 3V by 2x1.5V "AAA" batteries
Operation Frequency:	2407-2470MHz
Modulation Type:	GFSK
Number of Channels:	62
Antenna Type:	Integral Antenna
Antenna Gain:	0 dBi

Channel list

Channel no.	Frequency (MHz)	Channel no.	Frequency (MHz)	Channel no.	Frequency (MHz)
1	2407	22	2429	43	2450
2	2409	23	2430	44	2451
3	2410	24	2431	45	2452
4	2411	25	2433	46	2453
5	2412	26	2433	47	2454
6	2413	27	2434	48	2455
7	2414	28	2435	49	2456
8	2415	29	2436	50	2457
9	2416	30	2437	51	2458
10	2417	31	2438	52	2459
11	2418	32	2439	53	2460
12	2419	33	2440	54	2461
13	2420	34	2441	55	2462
14	2421	35	2442	56	2463
15	2422	36	2443	57	2464
16	2423	37	2444	58	2465
17	2424	38	2445	59	2466
18	2425	39	2446	60	2467
19	2426	40	2447	61	2468
20	2427	41	2448	62	2470
21	2428	42	2449		

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4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Occupied Bandwidth	$\pm 3\%$
3	Radiated Spurious emission test	$\pm 4.5\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (Above 1GHz)
4	Temperature test	$\pm 1\text{ }^{\circ}\text{C}$
5	Humidity test	$\pm 3\%$
6	Supply voltages	$\pm 1.5\%$
7	Time	$\pm 3\%$

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5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2019-09-24	2020-09-23
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2019-07-11	2020-07-10
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2019-09-24	2020-09-23
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2019-09-24	2020-09-23
Electric and Magnetic Field Analyzer	Narda	EHP-50F	SEM022-05	2019-11-28	2020-11-27
Electric Field Probe	WANDEL & GOLTERMANN	EMR-20	EMC0907	2019-05-21	2020-05-20
EMF Tester	Narda	ELT-400	SZE039-4	2019-07-08	2020-07-07

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier (18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

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Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

Radiated Emissions (30MHz-1GHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017-08-05	2020-08-04
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2019-09-24	2020-09-23
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017-06-27	2020-06-26
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2019-07-11	2020-07-10

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Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2019-07-11	2020-07-10
EXA Spectrum Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08
Horn Antenna	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2019-09-24	2020-09-23
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2020-04-01	2021-03-31
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31
DC Power Supply	Zhao Xin	KXN-6020D	SEM011-08	2019-09-24	2020-09-23
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2019-09-26	2020-09-25
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2019-09-26	2020-09-25
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

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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

Limit:

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 0dBi.

Antenna location: Refer to Internal photos

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7 Radio Spectrum Matter Test Results

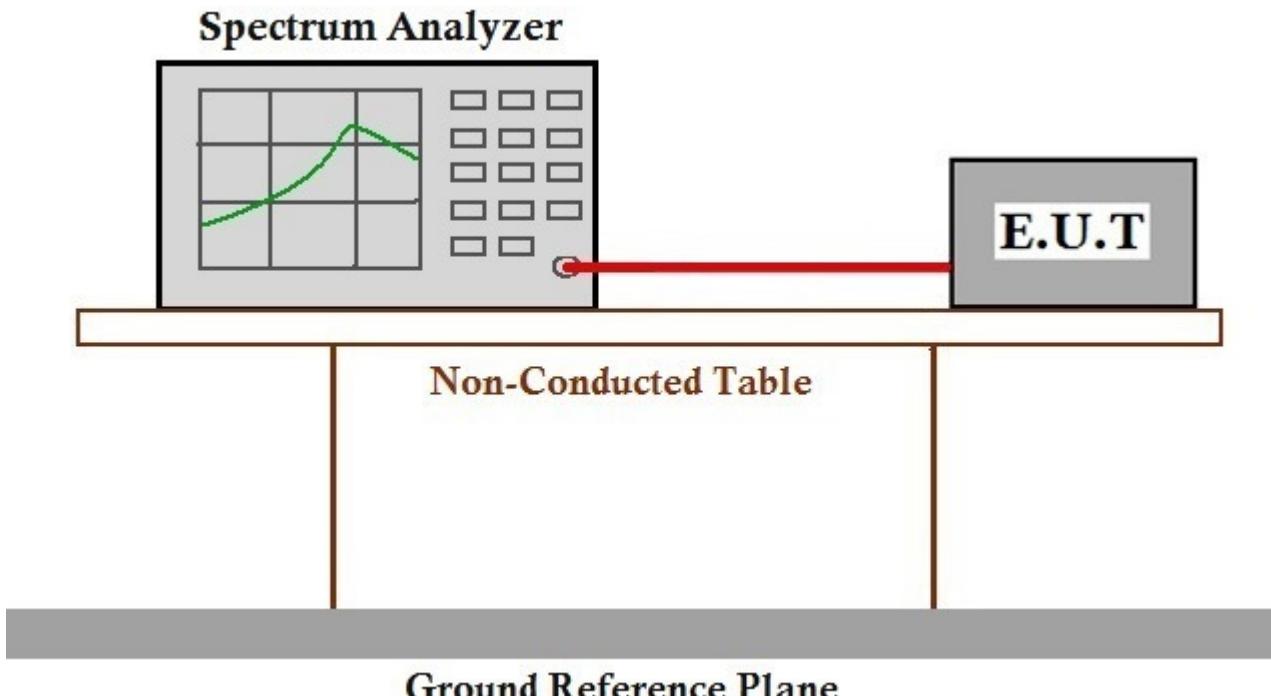
7.1 20dB Bandwidth

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: 28 °C Humidity: 42.1 % RH Atmospheric Pressure: 1010 mbar
Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.143	Pass
Middle	1.143	Pass
Highest	1.223	Pass



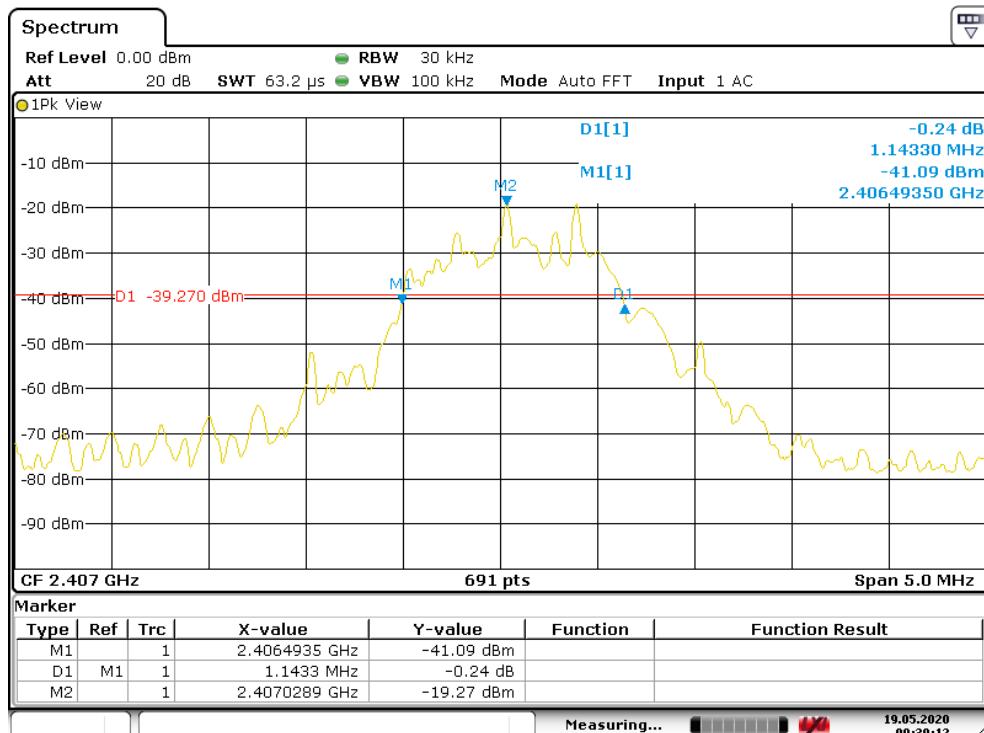
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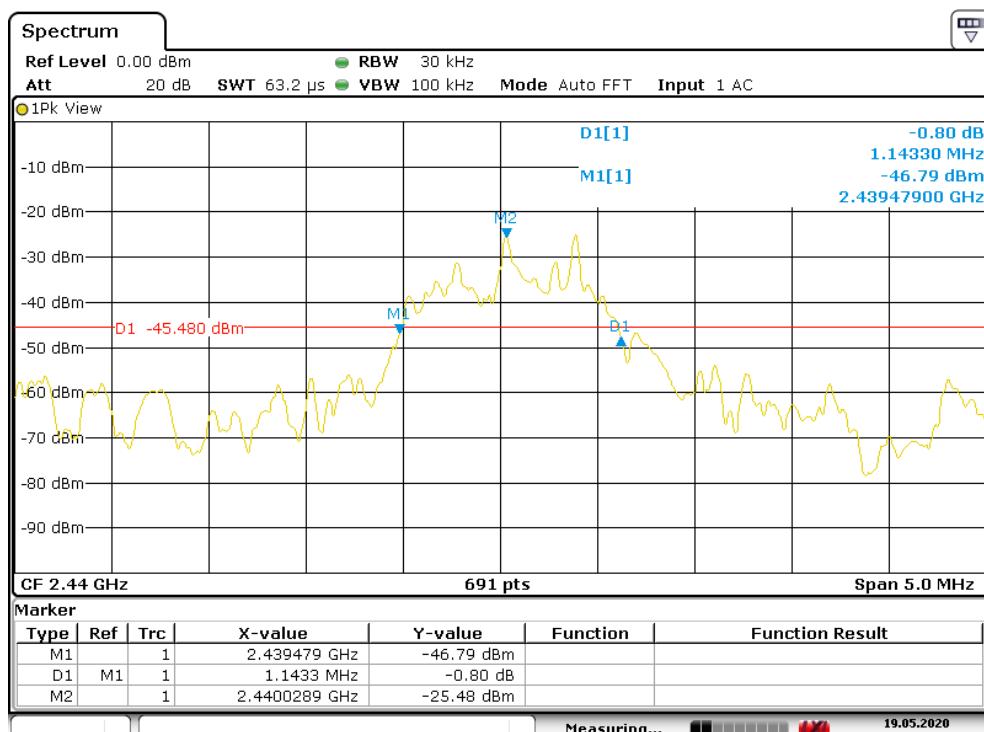
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2407:



2440:

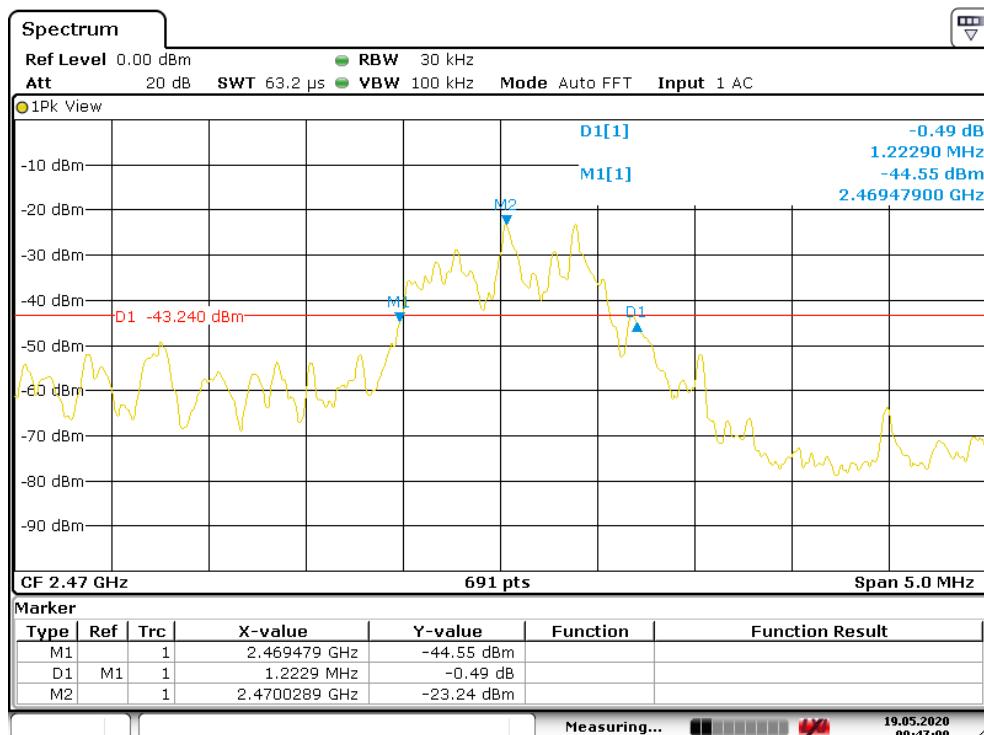


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2470:



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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.

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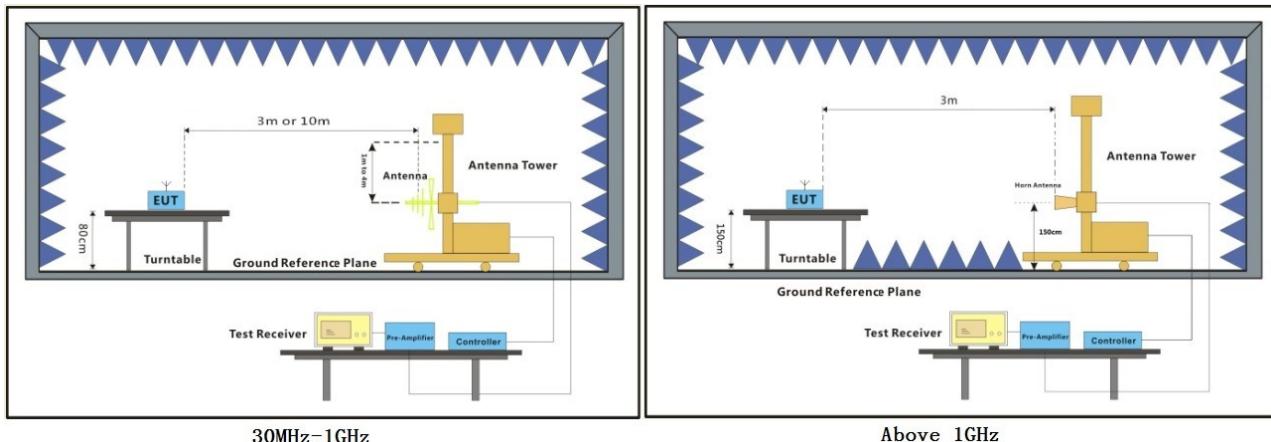
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7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.8 °C Humidity: 59 % RH Atmospheric Pressure: 1010 mbar
Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram



7.2.3 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 middle 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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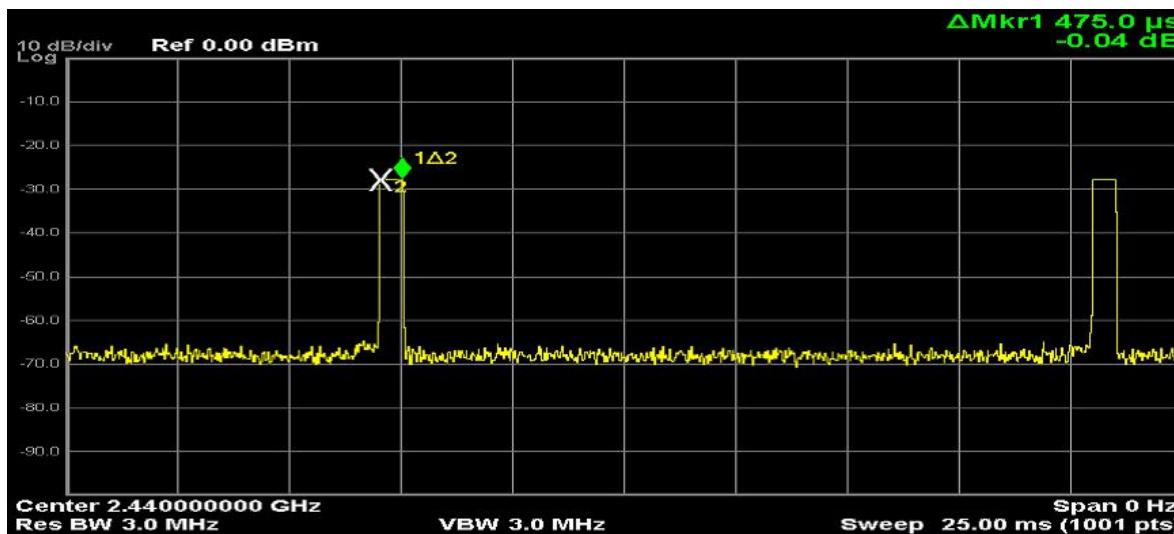
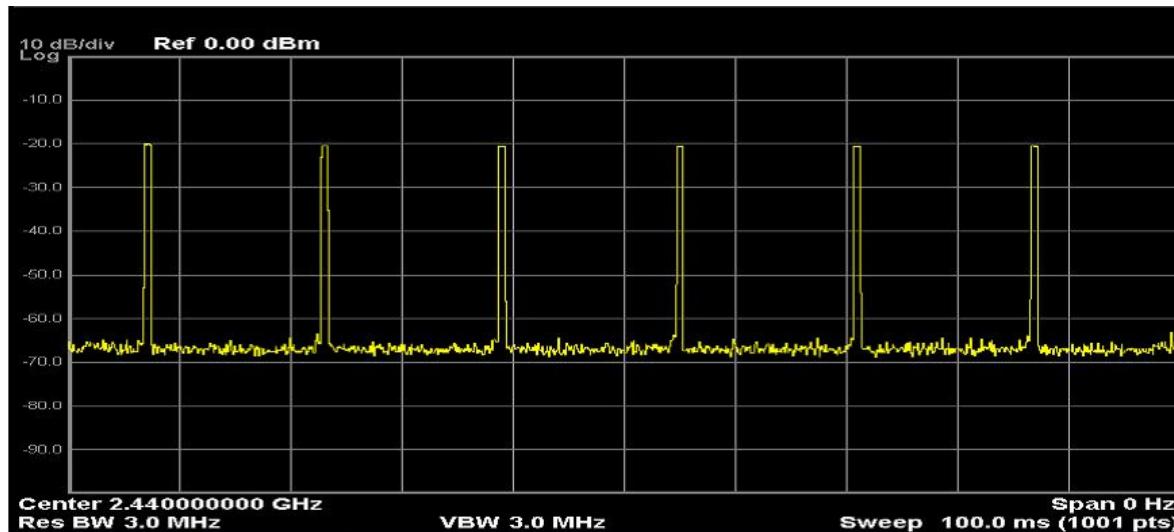
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Average value:

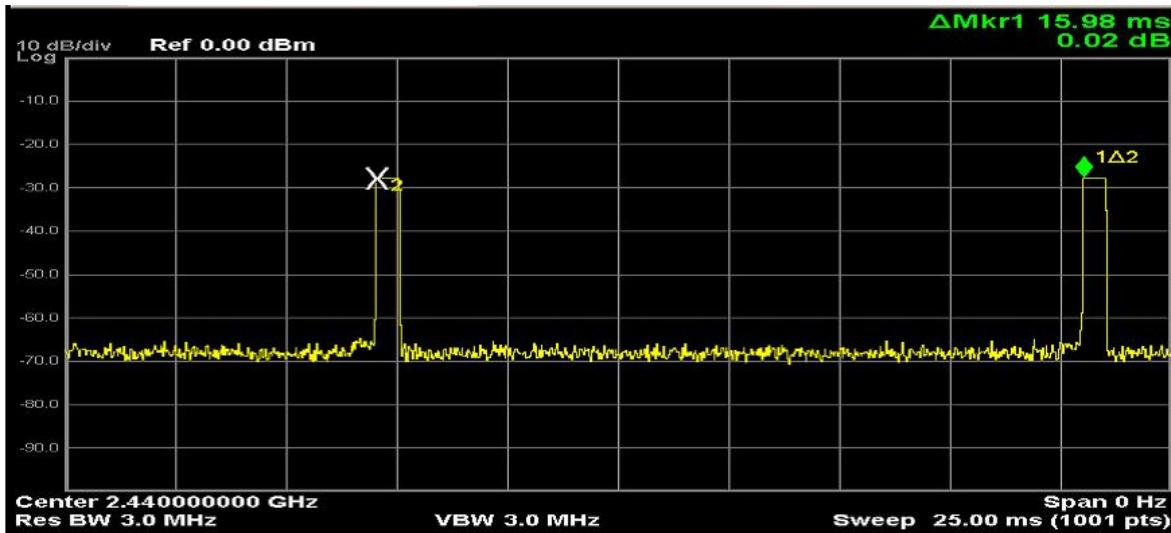
Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =0.475ms
	T period =15.98ms
	PDCF value= -30.54dB

Duty cycle test plots:



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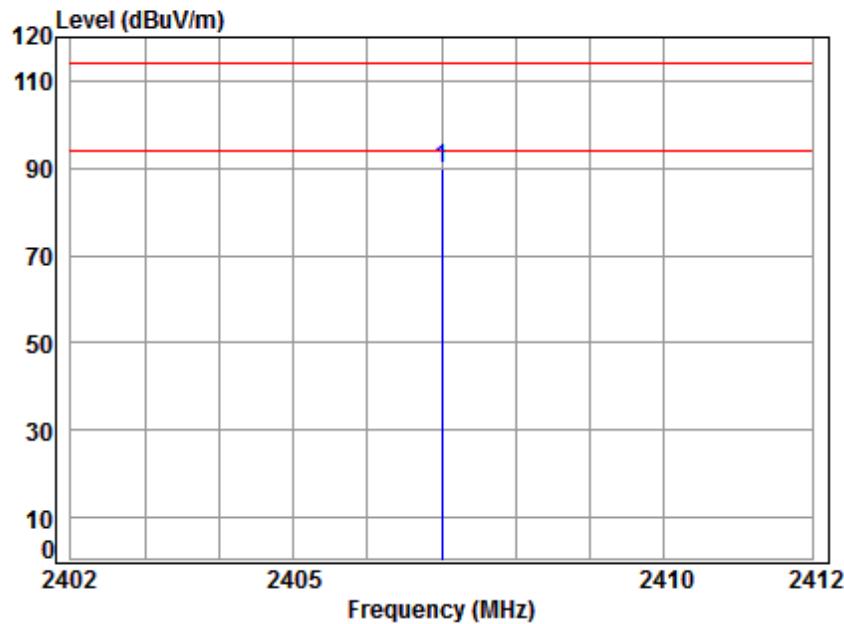
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03845CR

Mode : 2407 Field Strength

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2407.000	5.50	29.13	41.88	97.35	90.10	114.00	-23.90 peak

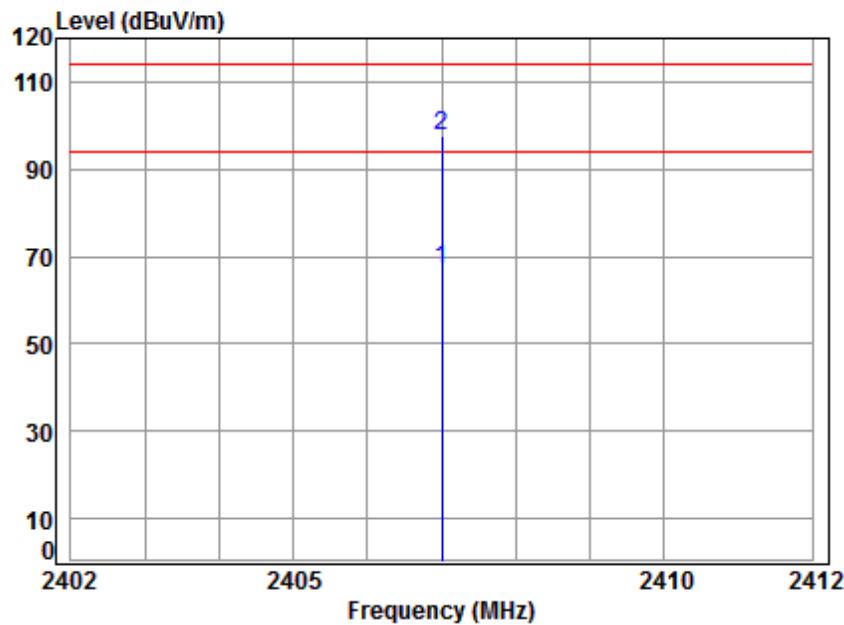
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL

Job No : 03845CR

Mode : 2407 Field Strength

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 av	2407.000	5.50	29.13	41.88	74.40	67.15	94.00 -26.85 Average
2 pp	2407.000	5.50	29.13	41.88	104.94	97.69	114.00 -16.31 peak

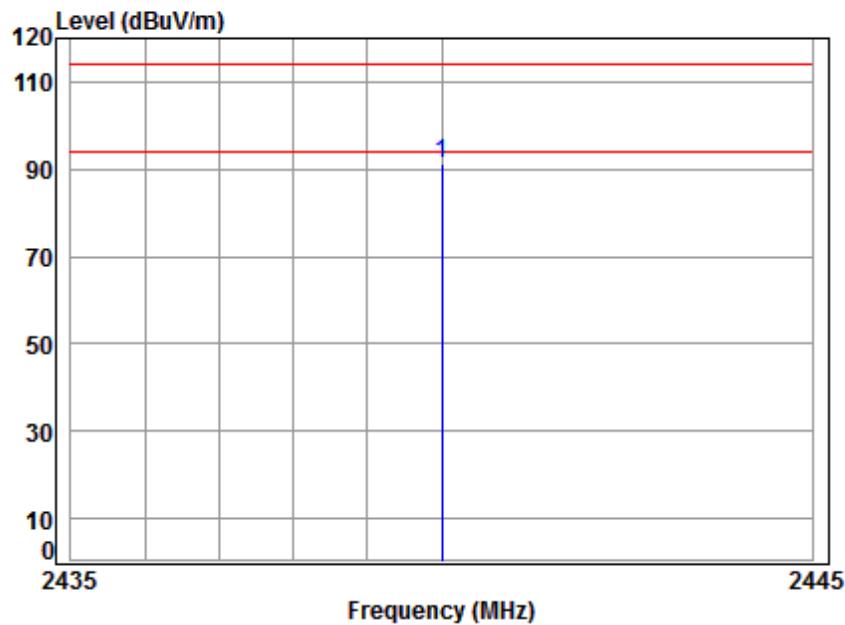
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 03845CR

Mode : 2440 Field Strength

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Limit Line	Over Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2440.000	5.54	29.23	41.89	98.55	91.43	114.00	-22.57 Peak

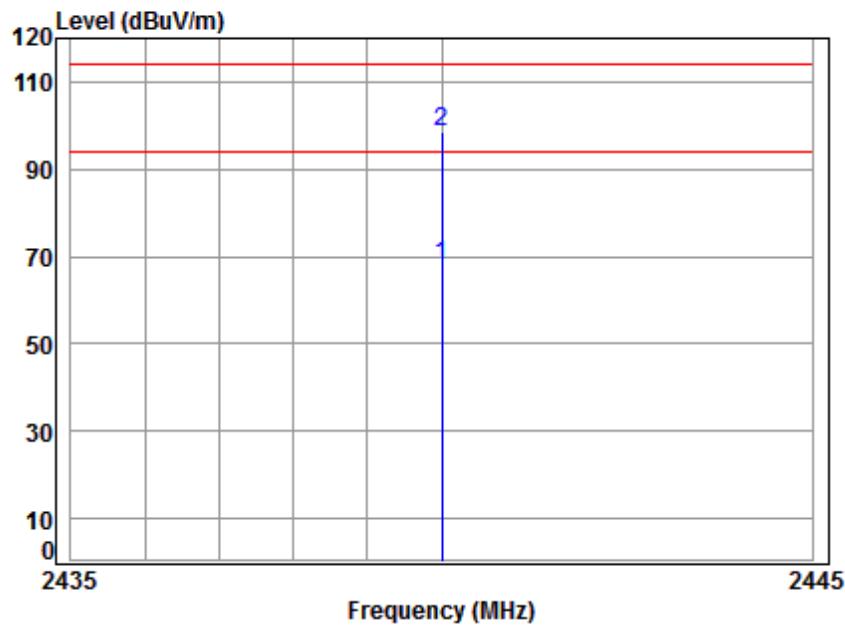
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Condition: 3m VERTICAL

Job No : 03845CR

Mode : 2440 Field Strength

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 av	2440.000	5.54	29.23	41.89	75.18	68.06	94.00 -25.94 Average
2 pp	2440.000	5.54	29.23	41.89	105.72	98.60	114.00 -15.40 Peak

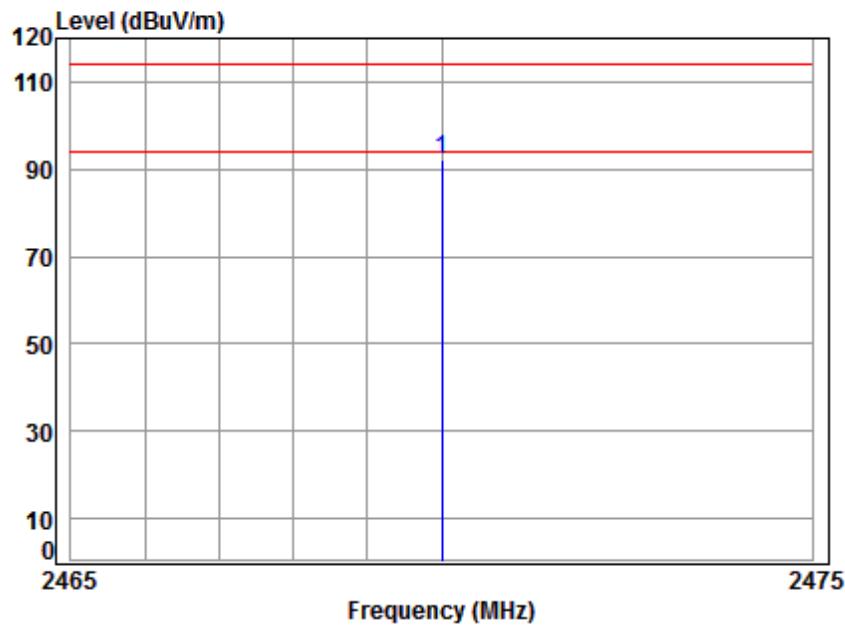
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 03845CR

Mode : 2470 Field Strength

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark

MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
-----	----	------	----	------	--------	--------	----

1 pp	2470.000	5.58	29.31	41.91	99.28	92.26	114.00	-21.74 peak
------	----------	------	-------	-------	-------	-------	--------	-------------

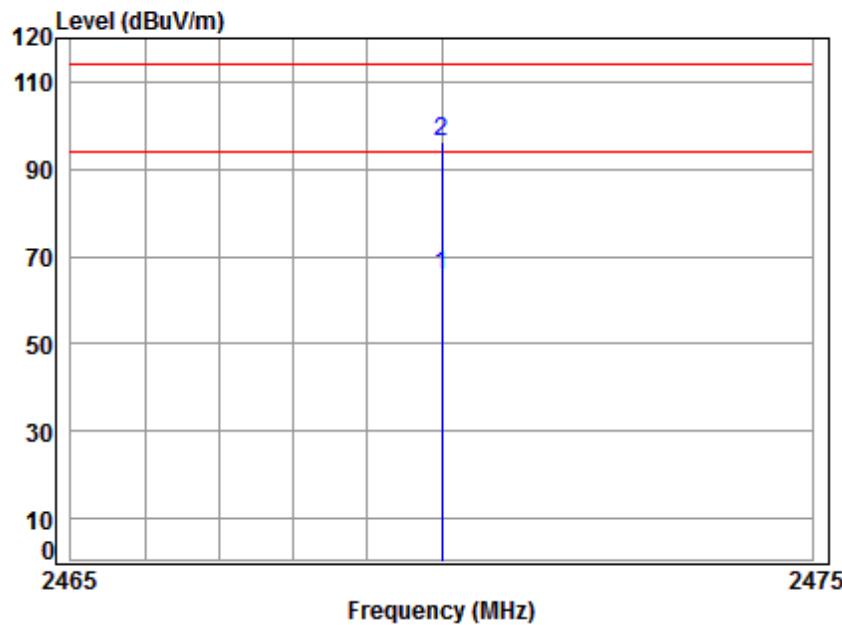
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL

Job No : 03845CR

Mode : 2470 Field Strength

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 av	2470.000	5.58	29.31	41.91	72.80	65.78	94.00 -28.22 Average
2 pp	2470.000	5.58	29.31	41.91	103.34	96.32	114.00 -17.68 peak

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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 6.4&6.5&6.6

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.

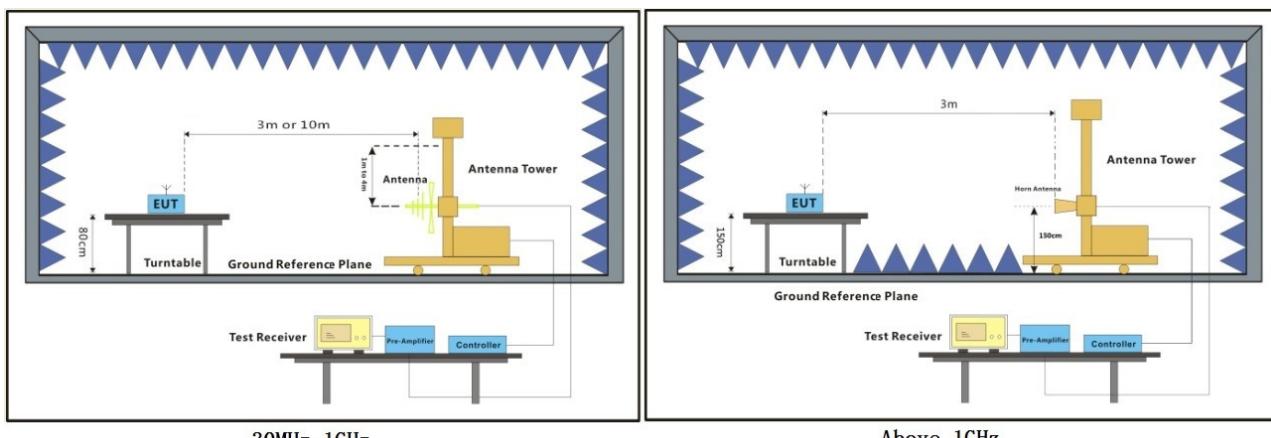
7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 59.2 % RH Atmospheric Pressure: 1010 mbar

Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram



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7.3.3 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

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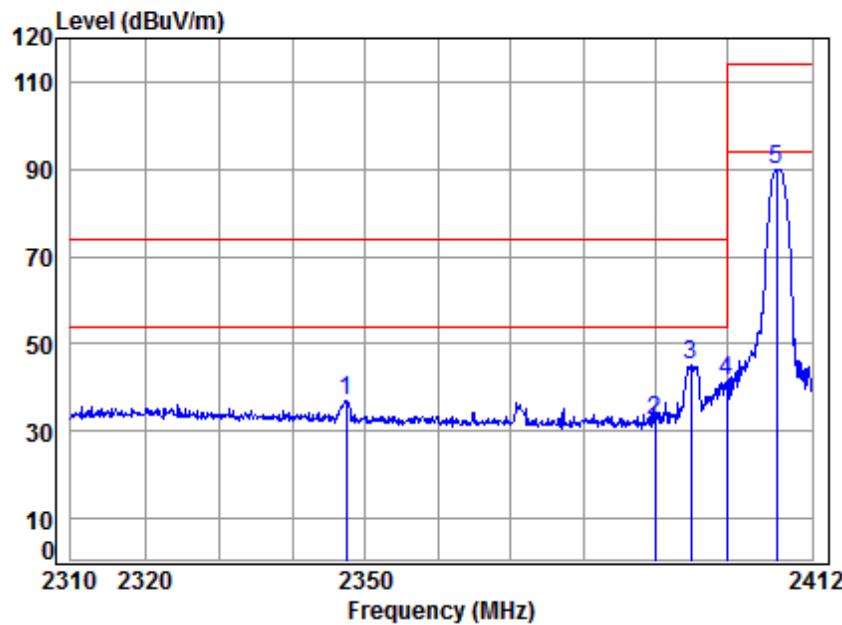
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03845CR

Mode : 2407 Band edge

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Limit Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2347.430	5.42	28.95	41.85	44.59	37.11	74.00	-36.89	peak
2	2390.000	5.47	29.08	41.87	39.65	32.33	74.00	-41.67	peak
3	2395.072	5.48	29.09	41.87	52.39	45.09	74.00	-28.91	peak
4	2400.000	5.49	29.11	41.88	48.86	41.58	74.00	-32.42	peak
5 pp	2407.000	5.50	29.13	41.88	97.35	90.10	114.00	-23.90	peak

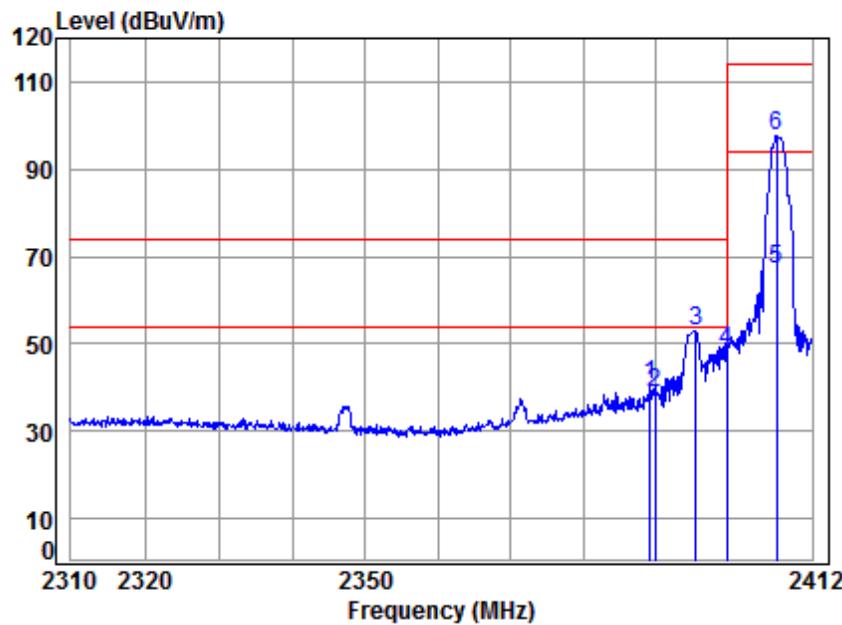
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL

Job No : 03845CR

Mode : 2407 Band edge

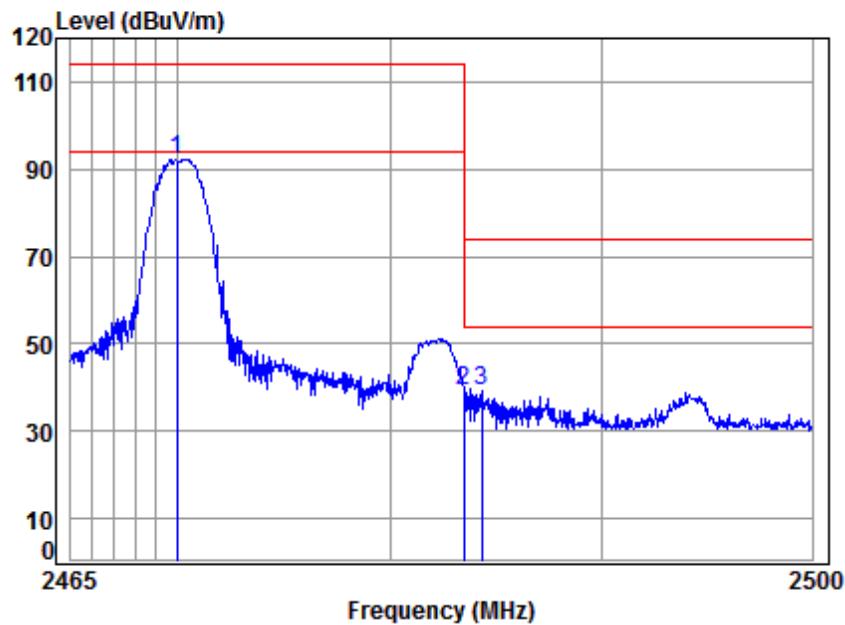
		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Limit Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2389.284	5.47	29.08	41.87	48.09	40.77	74.00	-33.23	peak
2	2390.000	5.47	29.08	41.87	45.93	38.61	74.00	-35.39	peak
3	2395.693	5.48	29.09	41.87	60.31	53.01	74.00	-20.99	peak
4	2400.000	5.49	29.11	41.88	55.80	48.52	74.00	-25.48	peak
5 av	2407.000	5.50	29.13	41.88	74.40	67.15	94.00	-26.85	Average
6 pp	2407.000	5.50	29.13	41.88	104.94	97.69	114.00	-16.31	peak

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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 03845CR

Mode : 2470 Band edge

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	2470.000	5.58	29.31	41.91	99.28	92.26	114.00	-21.74 peak
2		2483.500	5.60	29.35	41.91	46.10	39.14	74.00	-34.86 peak
3		2484.329	5.60	29.35	41.91	46.10	39.14	74.00	-34.86 peak

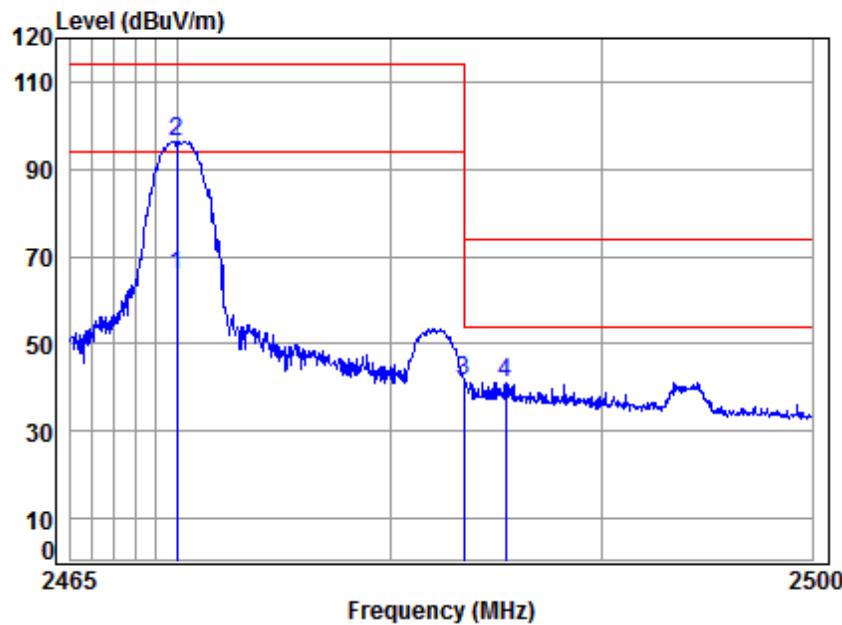
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL

Job No : 03845CR

Mode : 2470 Band edge

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	av	2470.000	5.58	29.31	41.91	72.80	65.78	94.00	-28.22 Average
2	pp	2470.000	5.58	29.31	41.91	103.34	96.32	114.00	-17.68 peak
3		2483.500	5.60	29.35	41.91	48.63	41.67	74.00	-32.33 peak
4		2485.450	5.60	29.36	41.91	48.09	41.14	74.00	-32.86 peak

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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

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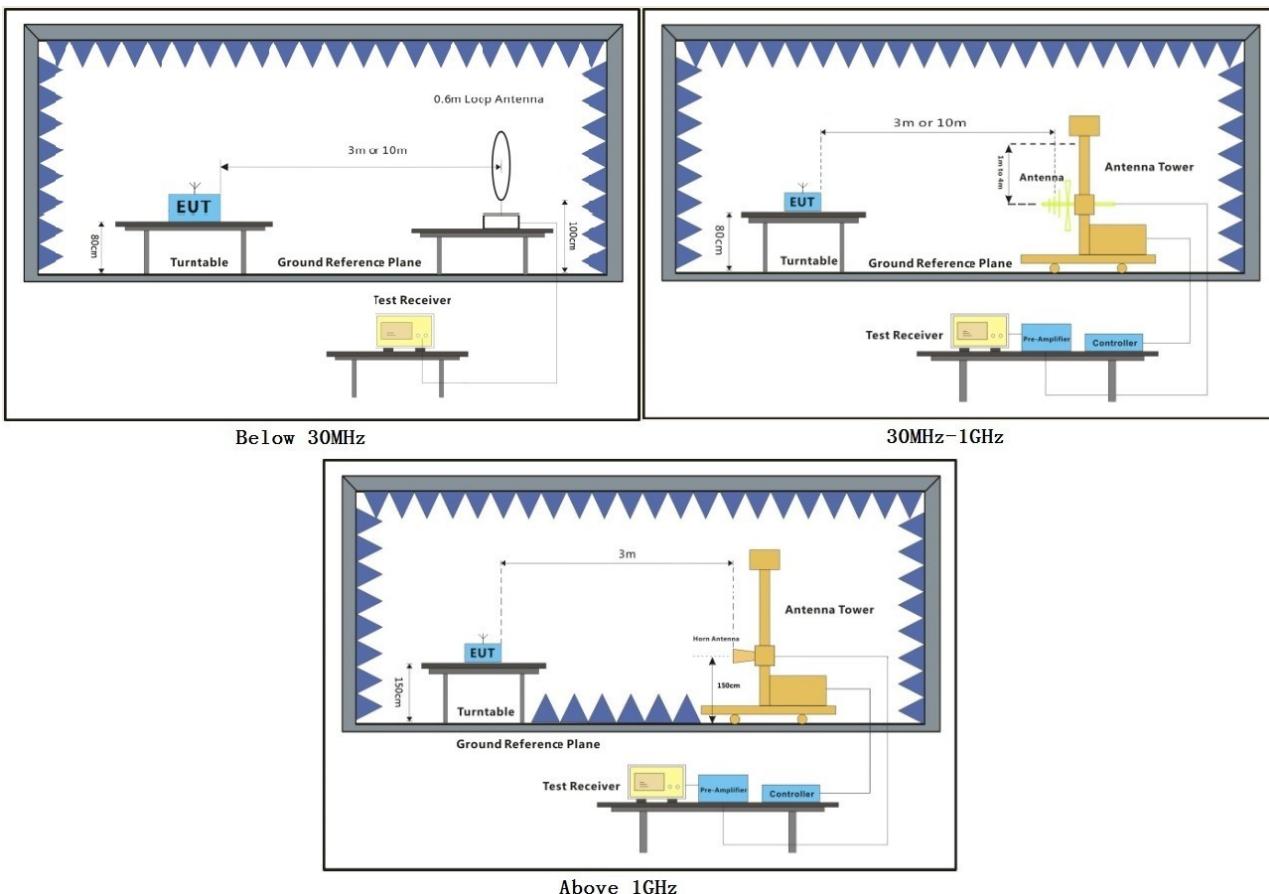
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7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C Humidity: 58.5 % RH Atmospheric Pressure: 1010 mbar
Test mode b:TX mode_Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram



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7.4.3 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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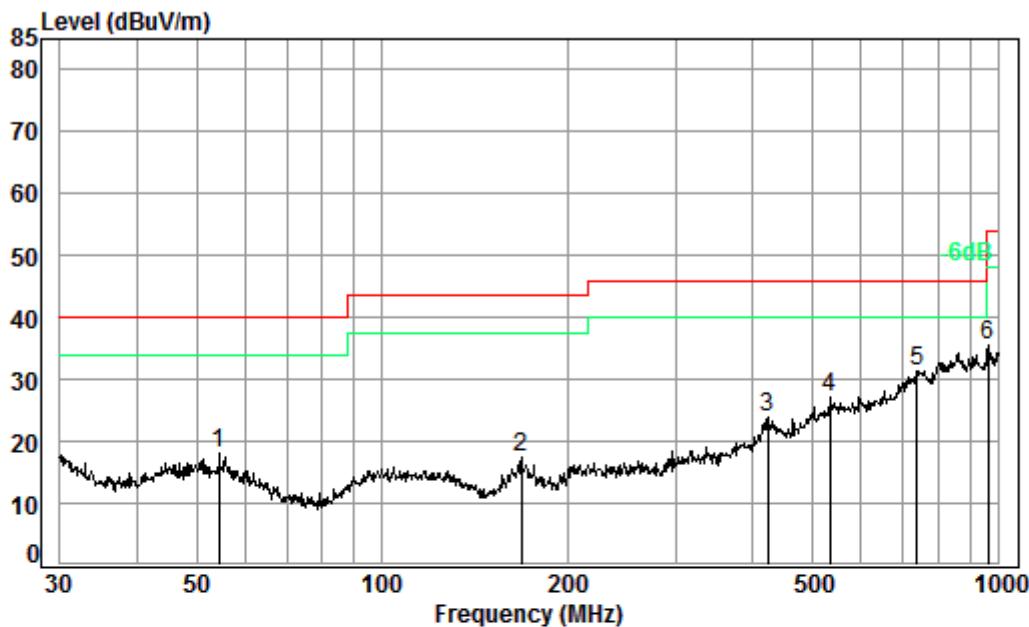
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30MHz~1GHz

Mode: b; Polarization: Horizontal;



Condition: 3m HORIZONTAL

Job No. : 03845CR

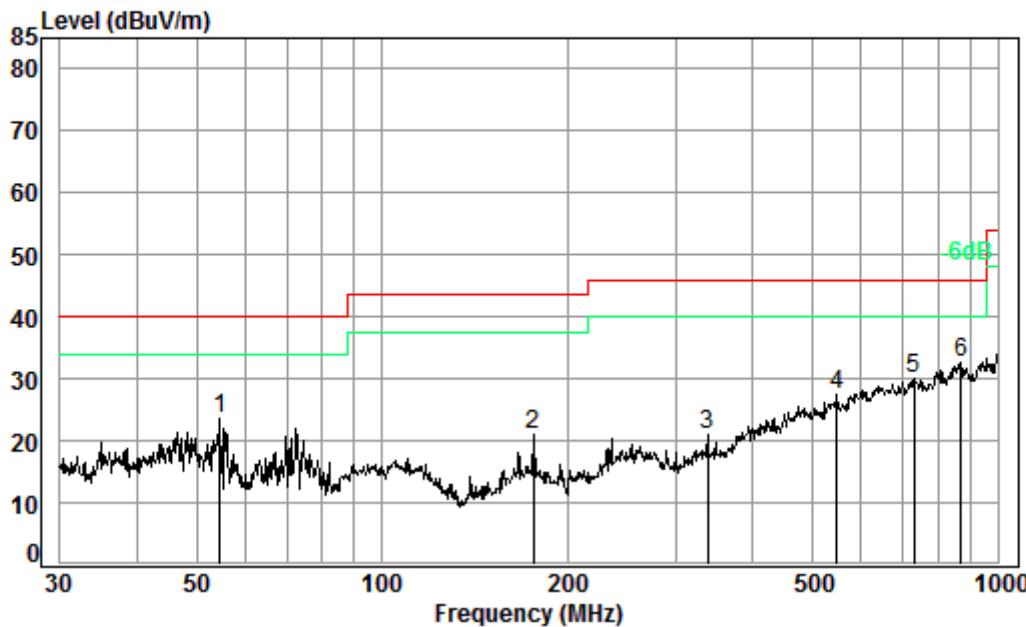
Test mode: b

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	54.45	0.80	13.73	27.58	31.09	18.04	40.00 -21.96 QP
2	168.41	1.35	15.67	27.52	27.94	17.44	43.50 -26.06 QP
3	423.54	2.30	22.96	27.77	26.28	23.77	46.00 -22.23 QP
4	533.83	2.64	25.32	27.82	27.06	27.20	46.00 -18.80 QP
5 pp	739.66	3.02	28.15	27.50	27.69	31.36	46.00 -14.64 QP
6	965.54	3.67	30.13	26.87	28.56	35.49	54.00 -18.51 QP

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Mode :b; Polarization: Vertical



Condition: 3m VERTICAL

Job No. : 03845CR

Test mode: b

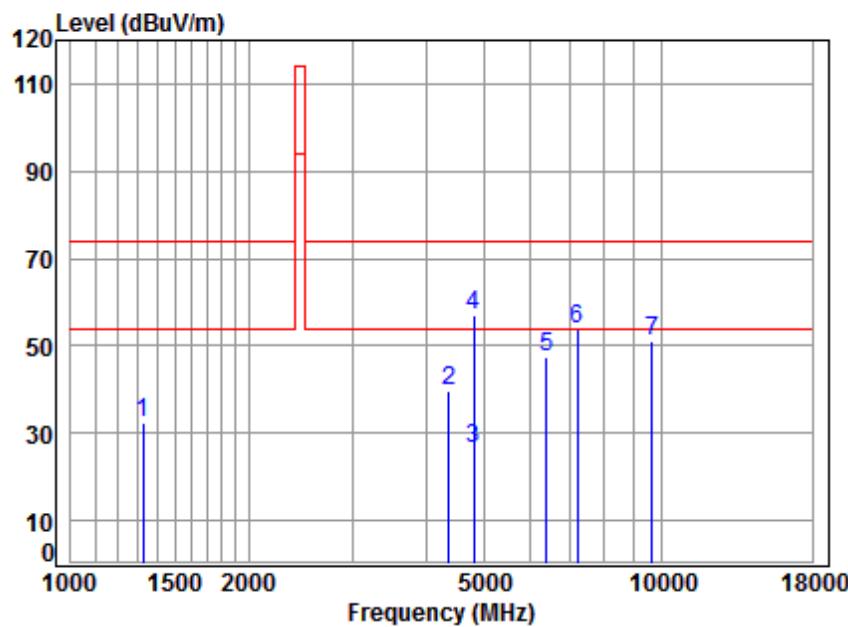
Freq	Cable	Ant	Preamp	Read	Limit	Over	Limit	Remark
	Loss	Factor	Factor	Level				
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	54.64	0.80	13.71	27.58	36.52	23.45	40.00	-16.55 QP
2	176.27	1.36	15.83	27.53	31.21	20.87	43.50	-22.63 QP
3	338.40	2.02	20.77	27.62	25.85	21.02	46.00	-24.98 QP
4	547.10	2.65	25.59	27.79	27.05	27.50	46.00	-18.50 QP
5	731.92	3.00	28.10	27.51	26.39	29.98	46.00	-16.02 QP
6 pp	872.18	3.50	29.45	27.17	26.85	32.63	46.00	-13.37 QP

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Above 1GHz

Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Condition: 3m HORIZONTAL

Job No : 03845CR

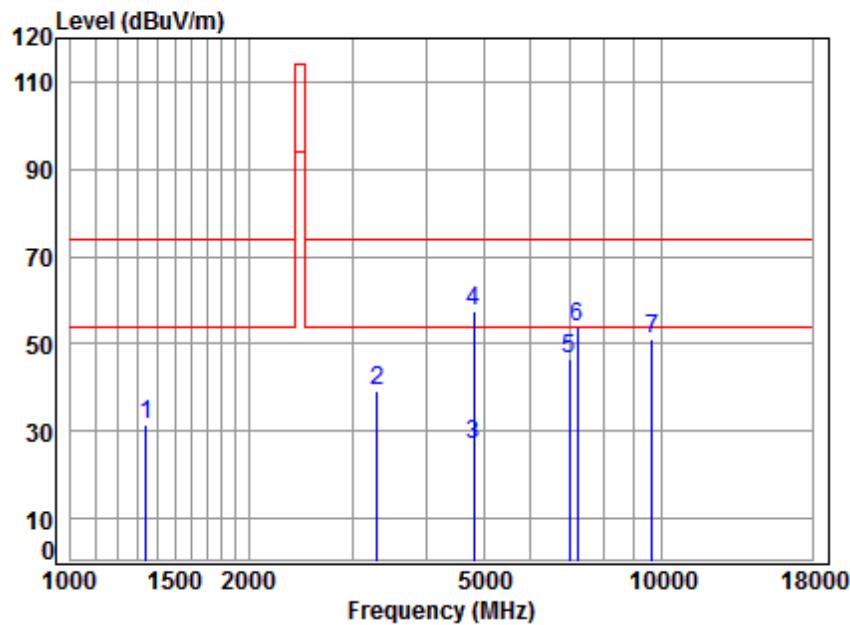
Mode : 2407 TX SE

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1323.614	4.88	25.06	41.28	43.60	32.26	74.00	-41.74	peak
2	4367.058	7.41	33.60	42.39	41.25	39.87	74.00	-34.13	peak
3 av	4814.000	7.90	34.18	42.47	26.88	26.49	54.00	-27.51	Average
4 pp	4814.000	7.90	34.18	42.47	57.42	57.03	74.00	-16.97	peak
5	6395.654	11.34	35.02	41.30	42.32	47.38	74.00	-26.62	peak
6	7221.000	10.07	36.41	40.70	48.02	53.80	74.00	-20.20	peak
7	9628.000	10.76	37.53	37.71	40.48	51.06	74.00	-22.94	peak

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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Condition: 3m VERTICAL

Job No : 03845CR

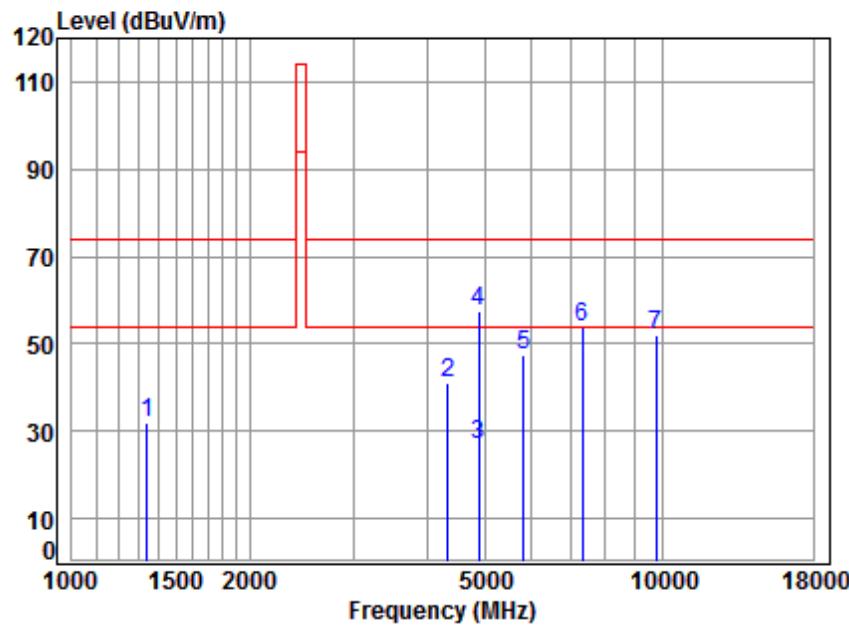
Mode : 2407 TX SE

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Line Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1339.006	4.94	25.13	41.29	42.84	31.62	74.00	-42.38	peak
2	3299.344	6.28	31.86	42.17	43.32	39.29	74.00	-34.71	peak
3 av	4814.000	7.90	34.18	42.47	27.29	26.90	54.00	-27.10	Average
4 pp	4814.000	7.90	34.18	42.47	57.83	57.44	74.00	-16.56	peak
5	6995.172	10.14	36.49	40.86	40.93	46.70	74.00	-27.30	peak
6	7221.000	10.07	36.41	40.70	48.12	53.90	74.00	-20.10	peak
7	9628.000	10.76	37.53	37.71	40.38	50.96	74.00	-23.04	peak

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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle



Condition: 3m HORIZONTAL

Job No : 03845CR

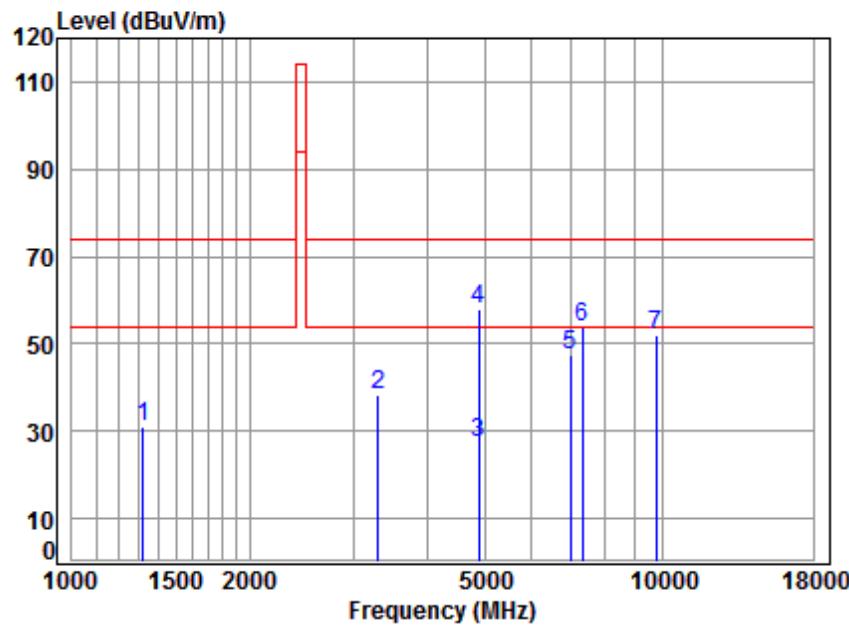
Mode : 2440 TX SE

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1339.006	4.94	25.13	41.29	43.17	31.95	74.00	-42.05	peak
2	4329.354	7.37	33.60	42.39	42.38	40.96	74.00	-33.04	peak
3 av	4880.000	7.97	34.29	42.48	27.18	26.96	54.00	-27.04	Average
4 pp	4880.000	7.97	34.29	42.48	57.72	57.50	74.00	-16.50	peak
5	5813.812	9.95	34.59	41.76	44.75	47.53	74.00	-26.47	peak
6	7320.000	10.05	36.37	40.63	47.87	53.66	74.00	-20.34	peak
7	9760.000	10.82	37.55	37.53	41.11	51.95	74.00	-22.05	peak

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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:middle



Condition: 3m VERTICAL

Job No : 03845CR

Mode : 2440 TX SE

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Line Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1319.794	4.87	25.04	41.28	42.48	31.11	74.00	-42.89	peak
2	3308.894	6.29	31.87	42.18	42.35	38.33	74.00	-35.67	peak
3 av	4880.000	7.97	34.29	42.48	27.41	27.19	54.00	-26.81	Average
4 pp	4880.000	7.97	34.29	42.48	57.95	57.73	74.00	-16.27	peak
5	6974.982	10.20	36.43	40.87	41.56	47.32	74.00	-26.68	peak
6	7320.000	10.05	36.37	40.63	48.11	53.90	74.00	-20.10	peak
7	9760.000	10.82	37.55	37.53	41.01	51.85	74.00	-22.15	peak

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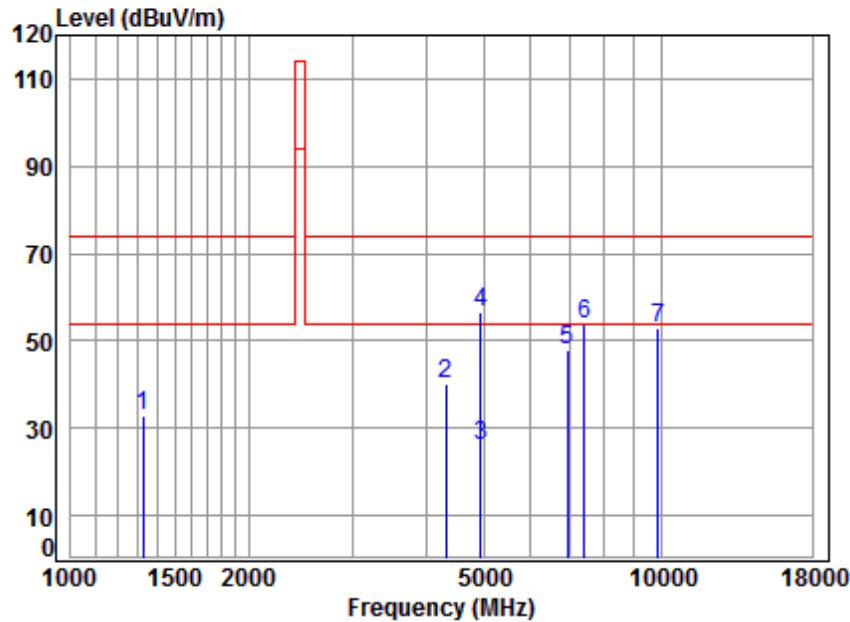
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:High



Condition: 3m HORIZONTAL

Job No : 03845CR

Mode : 2470 TX SE

		Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Line Level	Over Line Limit	Over Limit Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1323.614	4.88	25.06	41.28	44.00	32.66	74.00	-41.34	peak
2	4316.859	7.36	33.60	42.38	41.54	40.12	74.00	-33.88	peak
3 av	4940.000	8.03	34.40	42.49	26.14	26.08	54.00	-27.92	Average
4 pp	4940.000	8.03	34.40	42.49	56.68	56.62	74.00	-17.38	peak
5	6934.778	10.31	36.32	40.90	42.36	48.09	74.00	-25.91	peak
6	7410.000	10.02	36.33	40.57	47.98	53.76	74.00	-20.24	peak
7	9880.000	10.88	37.58	37.36	41.68	52.78	74.00	-21.22	peak

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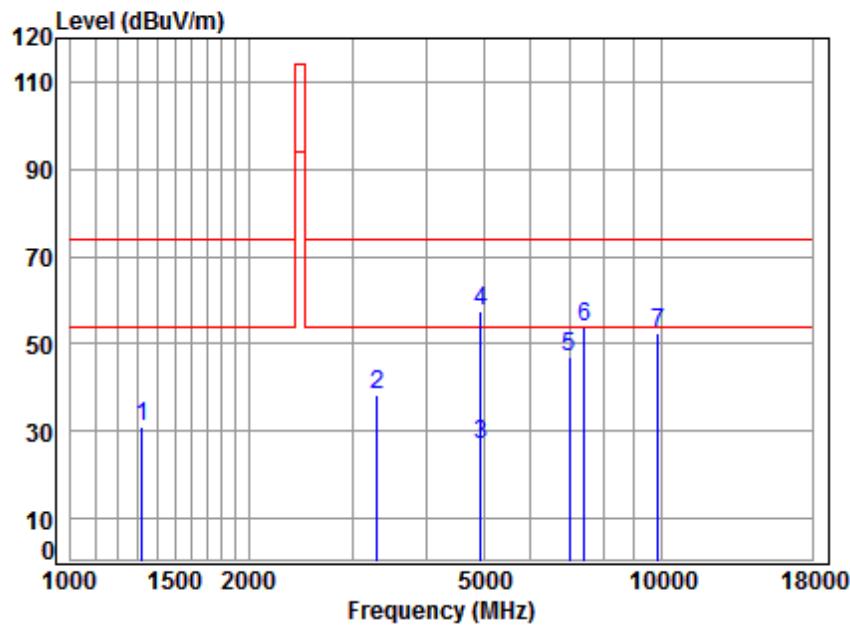
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



Condition: 3m VERTICAL

Job No : 03845CR

Mode : 2470 TX SE

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	1319.794	4.87	25.04	41.28	42.22	30.85	74.00	-43.15 peak
2	3308.894	6.29	31.87	42.18	42.43	38.41	74.00	-35.59 peak
3 av	4940.000	8.03	34.40	42.49	27.18	27.12	54.00	-26.88 Average
4 pp	4940.000	8.03	34.40	42.49	57.72	57.66	74.00	-16.34 peak
5	6974.982	10.20	36.43	40.87	41.20	46.96	74.00	-27.04 peak
6	7410.000	10.02	36.33	40.57	47.92	53.70	74.00	-20.30 peak
7	9880.000	10.88	37.58	37.36	41.21	52.31	74.00	-21.69 peak

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8 Photographs

8.1 Test Setup

Please refer to setup photo.

8.2 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.

- End of the Report -



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