



**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

No. 1 Workshop, M-10, Middle section, Science & Technology Park,
Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053
Fax: +86 (0) 755 2671 0594
Email: ee.shenzhen@sgs.com

Report No.: SZEM170800930102
Page: 1 of 60

TEST REPORT

Application No.: SZEM1708009301CR
Applicant: Kandao lightforge Co., Ltd.
Address of Applicant: Unit 5D, Block M7, SinoSteel Building, Nanshan, Shenzhen, China
Manufacturer: Kandao lightforge Co., Ltd.
Address of Manufacturer: Unit 5D, Block M7, SinoSteel Building, Nanshan, Shenzhen, China
Factory: SKY Light Electronic (Shenzhen) Limited
Address of Factory: No.6 Building, JinBi Industrial Area, HuangTian, BaoAn, Shenzhen, China
Equipment Under Test (EUT):
EUT Name: 3D VR Digital Camera
Model No.: Obsidian R, Obsidian S ♣
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: KanDao
FCC ID: 2AMZV-KDOY
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2017-09-07
Date of Test: 2017-09-08 to 2017-09-15
Date of Issue: 2017-09-20

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



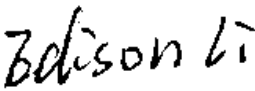
Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2017-09-20		Original

Authorized for issue by:				
				
		Edison Li /Project Engineer		
				
		Eric Fu /Reviewer		

2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Declaration of EUT Family Grouping:

Model No.: Obsidian R, Obsidian S

Only the model Obsidian S was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on lens types.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 12.0V or powered by DC 7.4V*2 batteries

Switching Mode Power Supply

Model: GP306A-120-500

Input: AC 100-240V, 50/60Hz, 1.5A Max

Output: DC 12V, 5A

Cable: AC cable: 138cm unshielded

DC cable: 118cm with a ferrite core

Frequency Range: 2402MHz to 2480MHz

Bluetooth Version: V4.2 Signal mode

Modulation Type: GFSK

Number of Channels: 40

Antenna Type: PCB Antenna

Antenna Gain: 3dBi

4.2 Description of Support Units

The EUT has been tested independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25×10^{-8}
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	RF Radiated power	4.5dB (below 1GHz)
		4.8dB (above 1GHz)
8	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-18GHz)
9	Temperature test	1 °C
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%



4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 10m Semi-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.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017-05-10	2018-05-10
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A
LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09
LISN	ETS-LINDGREN	3816/2	SEM007-02	2017-04-14	2018-04-13
8-Wire ISN CAT 6	SCHWARZBECK MESS- ELEKTRONIK	NTFM 8158	EMC2123	2017-06-23	2018-06-22
CAT5 8158 ISN 8Wire	SCHWARZBECK MESS- ELEKTRONIK	CAT5 8158	EMC2124	2017-06-23	2018-06-22
8-Wire ISN CAT 3	SCHWARZBECK MESS- ELEKTRONIK	CAT3 8158	EMC2126	2017-06-23	2018-06-22
Cable	SGS	CE1	N/A	2016-10-09	2017-10-09

RF Conducted Test					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09



Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2017-06-16	2020-06-15
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2016-10-09	2017-10-09
Pre-amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A
Cable	SGS	RE2	N/A	2016-10-09	2017-10-09

Radiated Spurious Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14



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Horn Antenna (15GHz-40GHz)	Schwarzbeck	BBHA 9170	SEM003-14	2017-06-16	2020-06-15
Pre-amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA- 0118-352810	SEM005-05	2016-10-09	2017-10-09
Pre-amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17
Pre-amplifier (26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14
Band filter	N/A	N/A	SEM023-01	N/A	N/A
Cable	SGS	RE1	N/A	2016-10-09	2017-10-09

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	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-18

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(c)

6.1.2 Conclusion

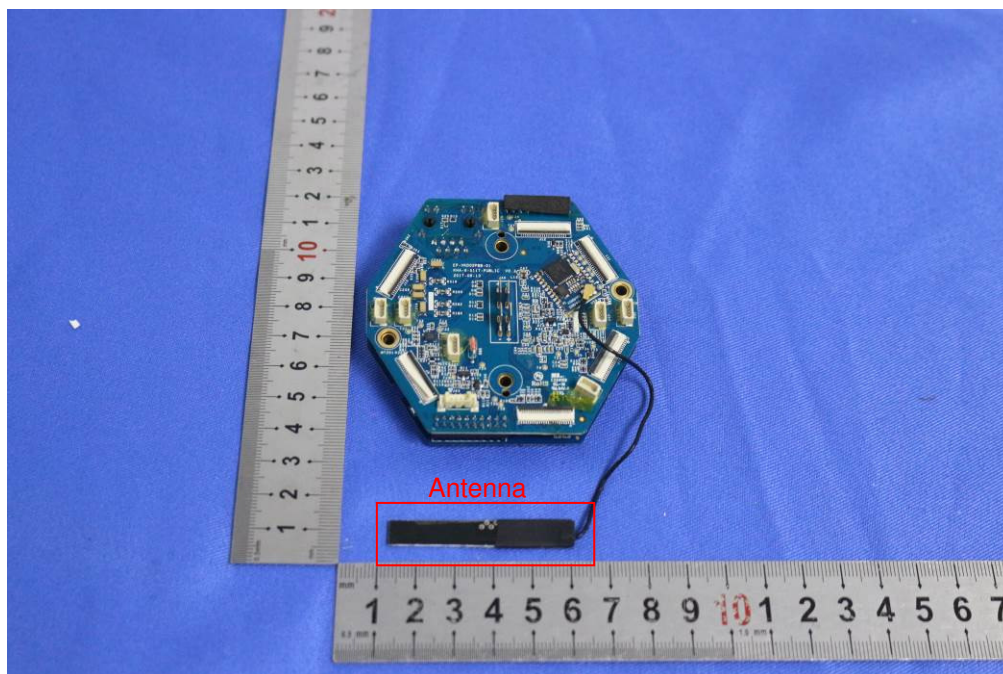
Standard Requirement:

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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3dBi.

7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2013) Section 6.2
Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

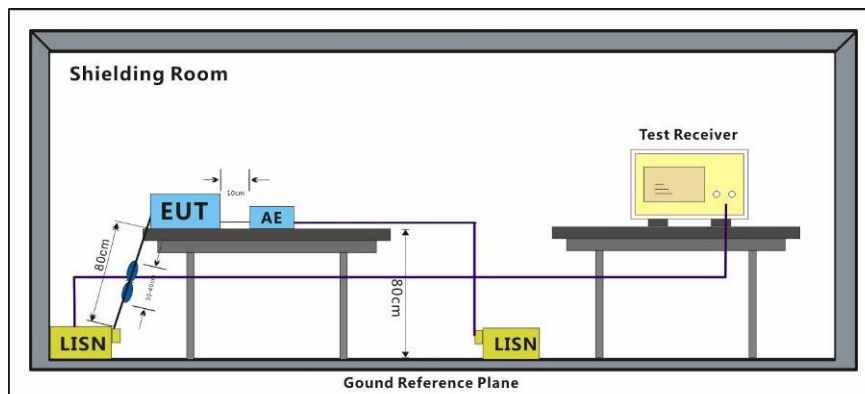
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

Test mode: d: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and adapter.

7.1.2 Test Setup Diagram



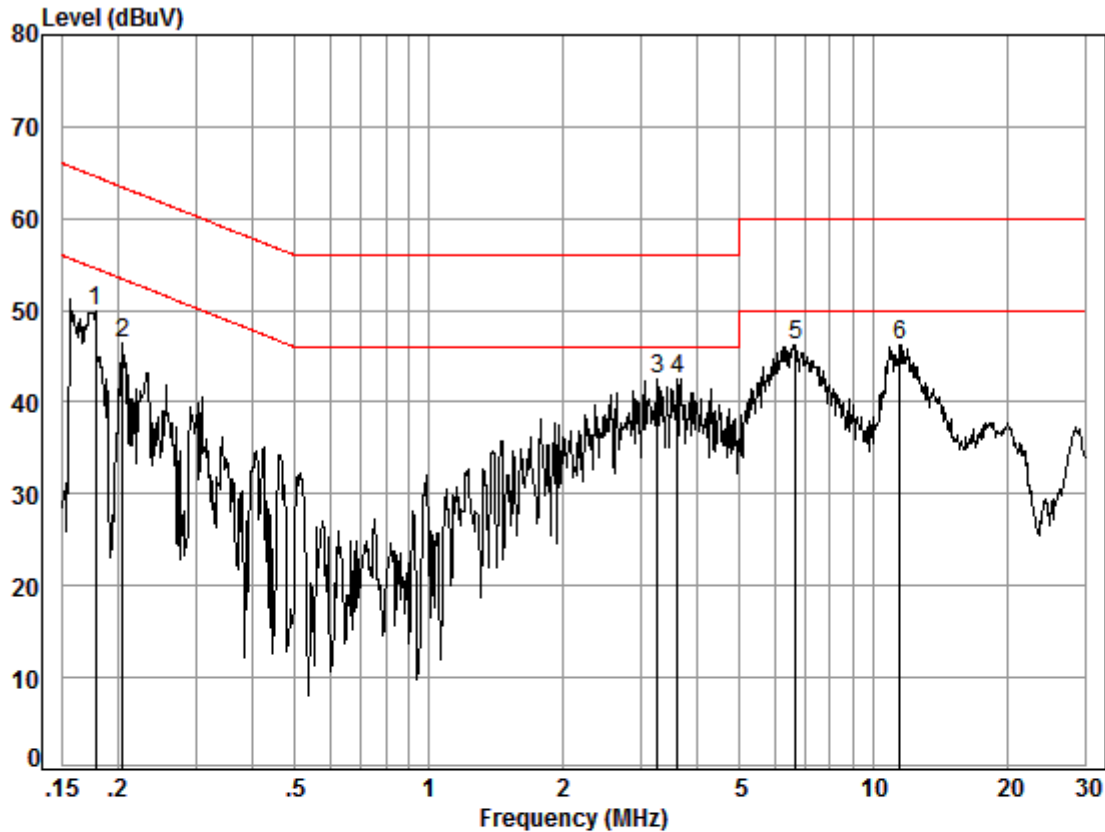


7.1.3 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor

Mode:d; Line:Live Line



Site : Shielding Room

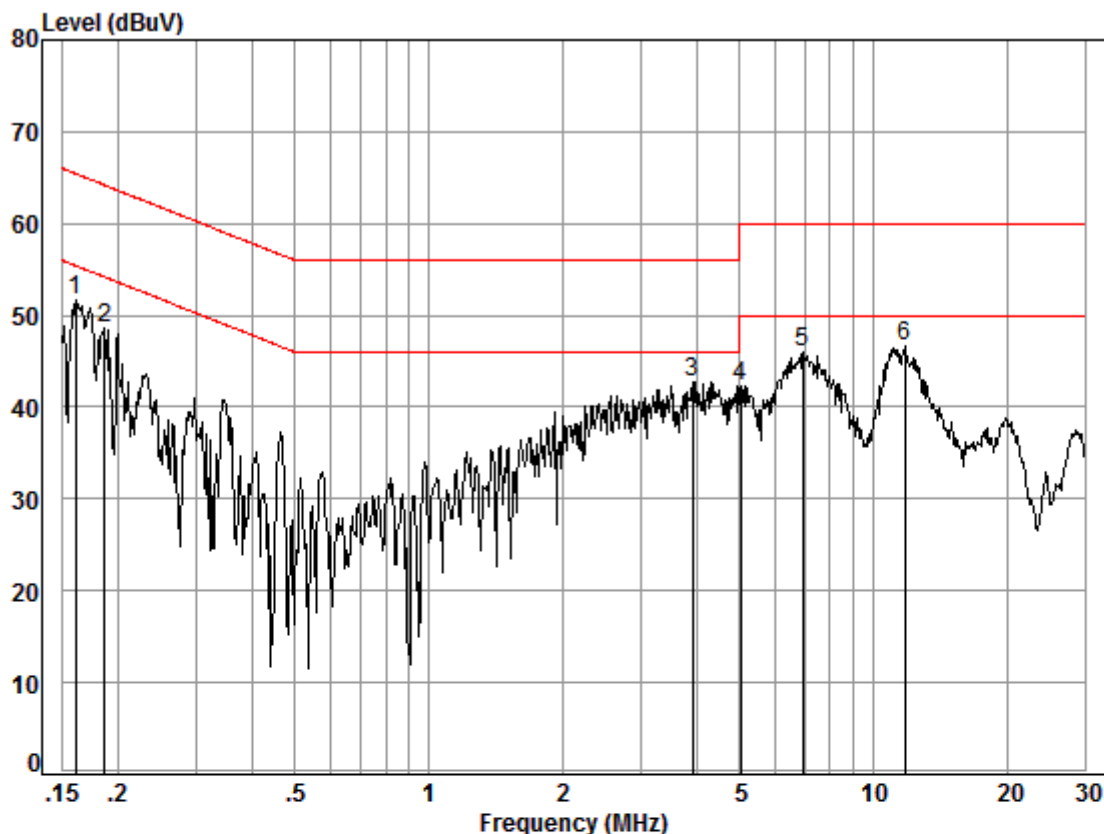
Condition: Line

Job No. : 09301CR

Test mode: d

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.02	9.63	40.24	49.89	54.59	-4.70	Peak
2	0.21	0.02	9.63	36.77	46.42	53.40	-6.98	Peak
3	3.28	0.02	9.68	32.71	42.41	46.00	-3.59	Peak
4	3.62	0.02	9.68	32.82	42.52	46.00	-3.48	Peak
5	6.70	0.01	9.76	36.49	46.26	50.00	-3.74	Peak
6	11.50	0.01	9.88	36.27	46.16	50.00	-3.84	Peak

Mode:d; Line:Neutral Line



Site : Shielding Room

Condition: Neutral

Job No. : 09301CR

Test mode: d

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.16	0.02	9.63	41.98	51.63	55.43	-3.80	Peak
2	0.19	0.02	9.63	38.86	48.51	54.20	-5.69	Peak
3	3.92	0.02	9.69	33.07	42.78	46.00	-3.22	Peak
4	5.03	0.01	9.72	32.66	42.39	50.00	-7.61	Peak
5	6.95	0.01	9.77	36.26	46.04	50.00	-3.96	Peak
6	11.81	0.01	9.89	36.81	46.71	50.00	-3.29	Peak

7.2 Minimum 6dB Bandwidth

Test Requirement	47 CFR Part 15, Subpart C 15.247a(2)
Test Method:	ANSI C63.10 (2013) Section 11.8.1
Limit:	≥500 kHz

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

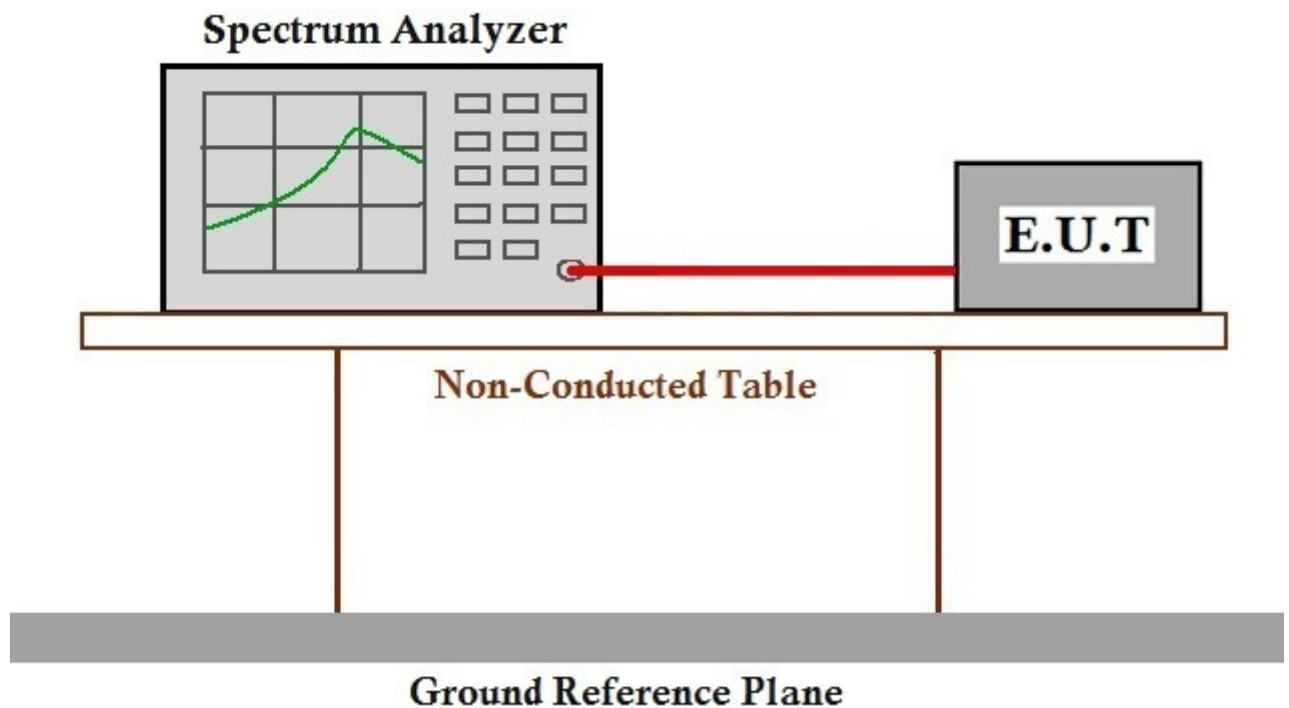
Pretest these mode to find the worst case:

- c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery.
- d: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and adapter.

The worst case for final test:

- c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

7.3 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2013) Section 11.9.1

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

7.3.1 E.U.T. Operation

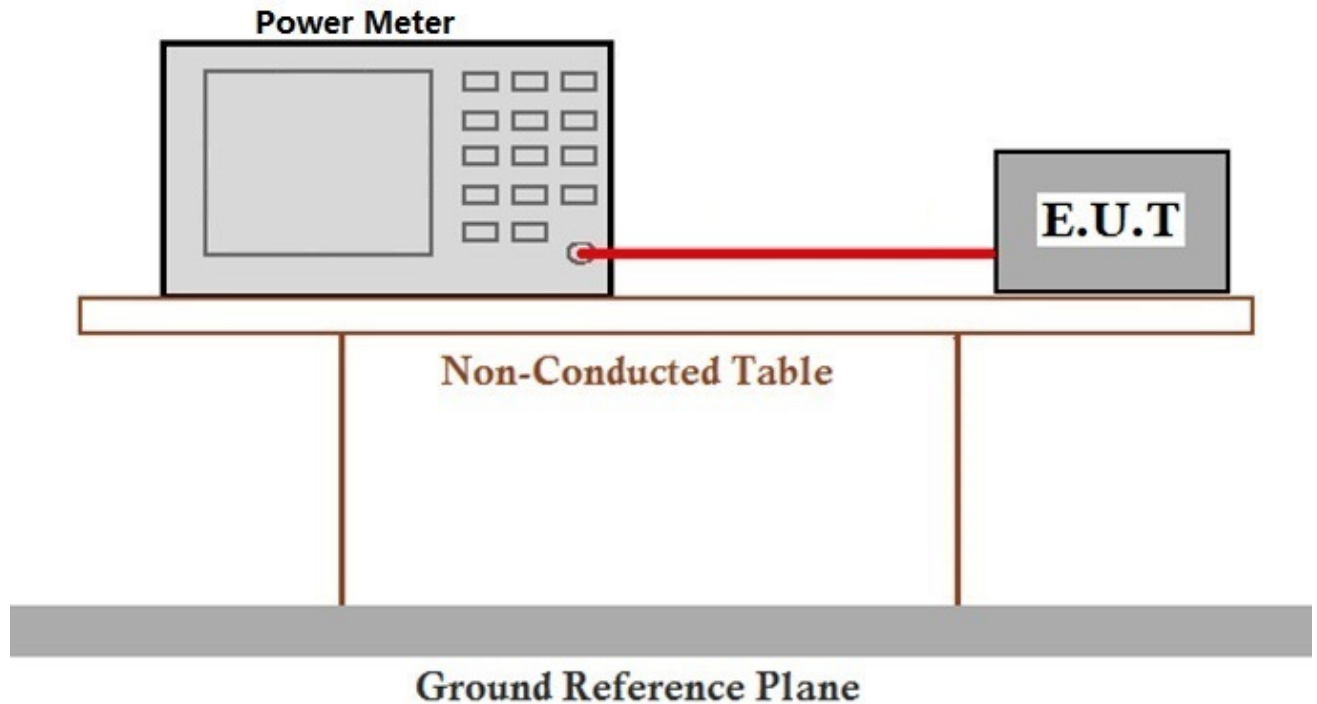
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

Pretest these mode to find the worst case:
 c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery.
 d: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and adapter.

The worst case for final test:
 c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery.

7.3.2 Test Setup Diagram



7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

7.4 Power Spectrum Density

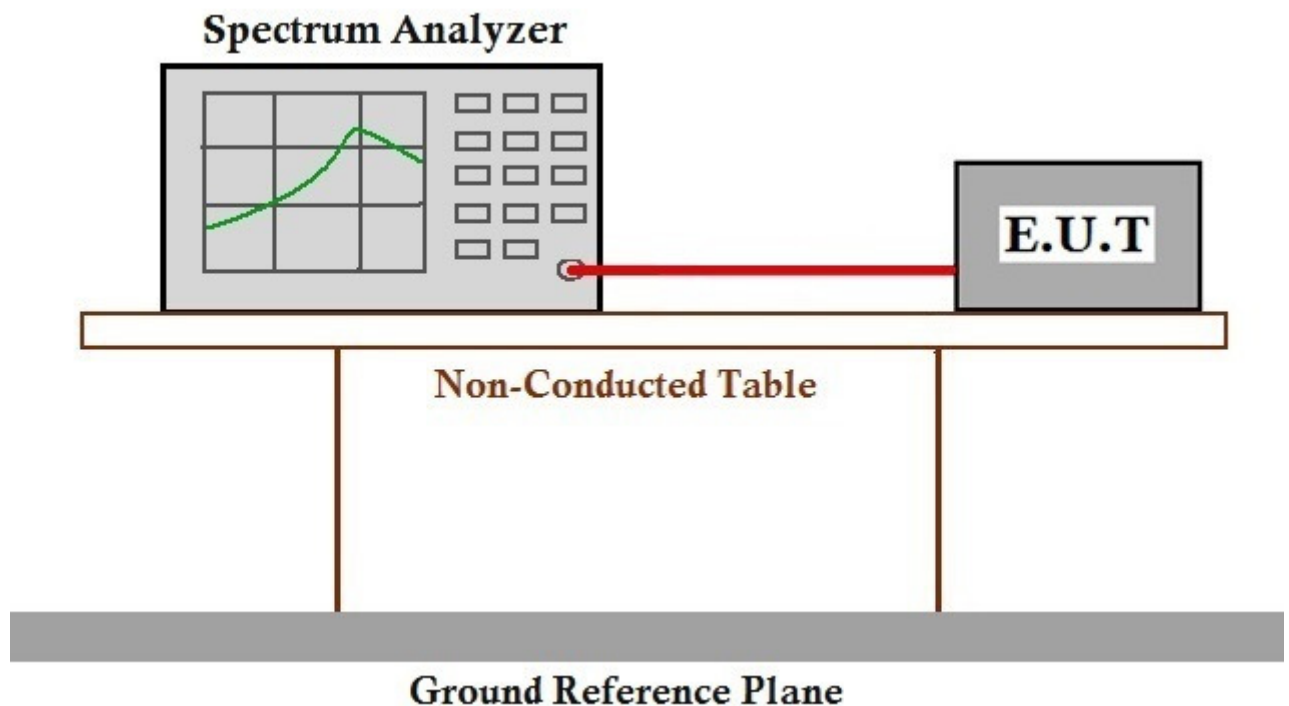
Test Requirement	47 CFR Part 15, Subpart C 15.247(e)
Test Method:	ANSI C63.10 (2013) Section 11.10.2
Limit:	$\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

7.4.1 E.U.T. Operation

Operating Environment:

Temperature:	23 °C	Humidity:	54 % RH	Atmospheric Pressure:	1005 mbar
Pretest these mode to find the worst case:	c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery. d: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and adapter.				
The worst case for final test:	c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery.				

7.4.2 Test Setup Diagram



7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



7.5 Conducted Band Edges Measurement

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.13.3.2
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

7.5.1 E.U.T. Operation

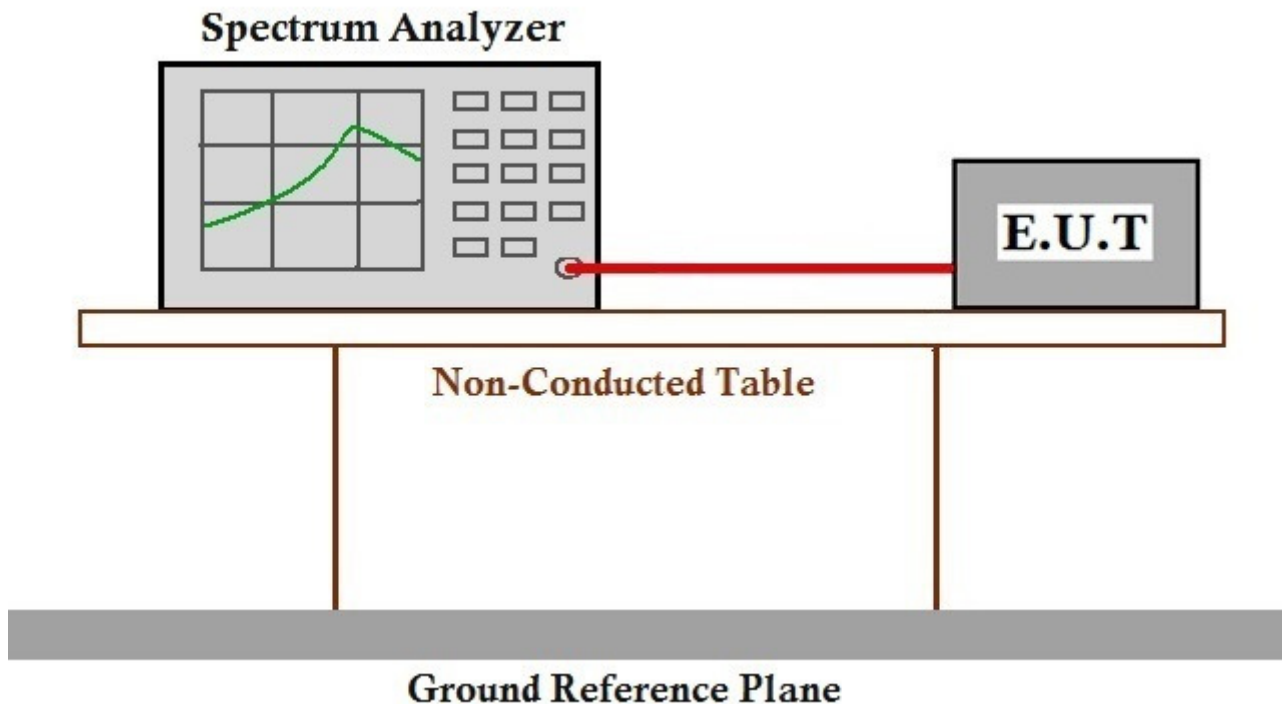
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

Pretest these mode to find the worst case:
 c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery.
 d: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and adapter.

The worst case for final test: c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery.

7.5.2 Test Setup Diagram



7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



7.6 Conducted Spurious Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.247(d)
Test Method:	ANSI C63.10 (2013) Section 11.11
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c))

7.6.1 E.U.T. Operation

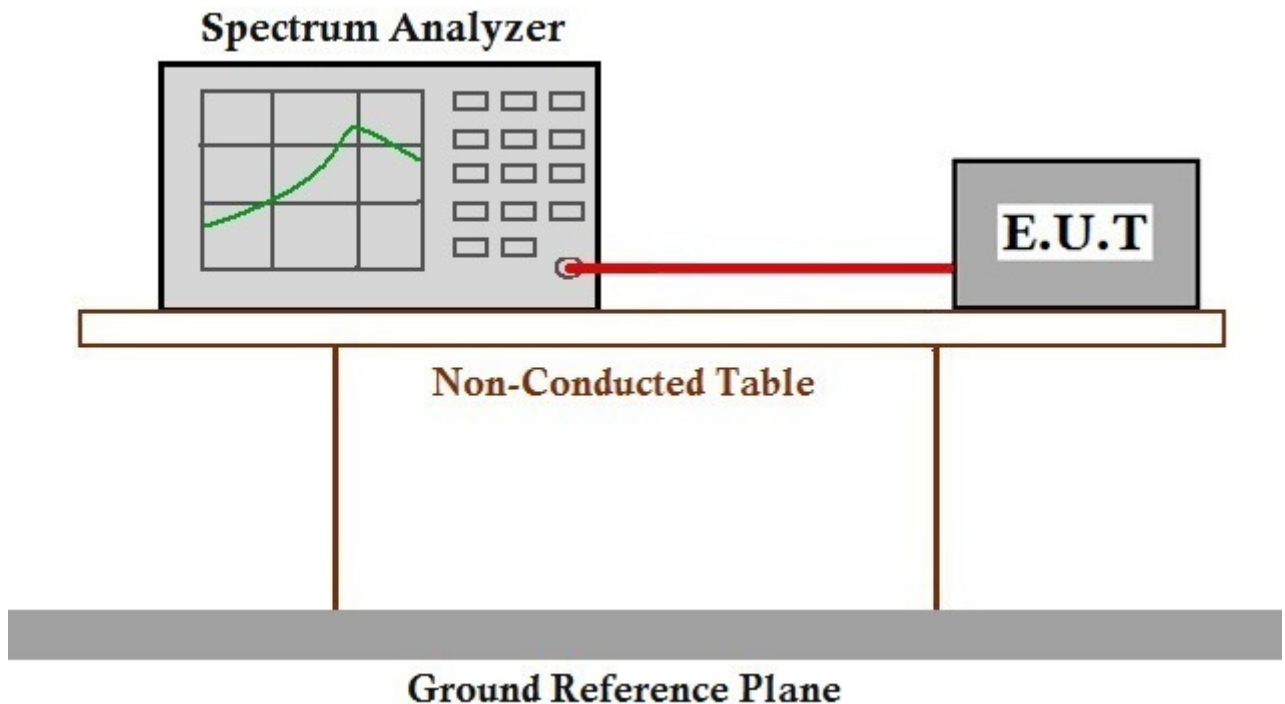
Operating Environment:

Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

Pretest these mode to find the worst case:
 c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery.
 d: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and adapter.

The worst case for final test: c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery.

7.6.2 Test Setup Diagram



7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



7.7 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

Measurement Distance: 3m

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.

7.7.1 E.U.T. Operation

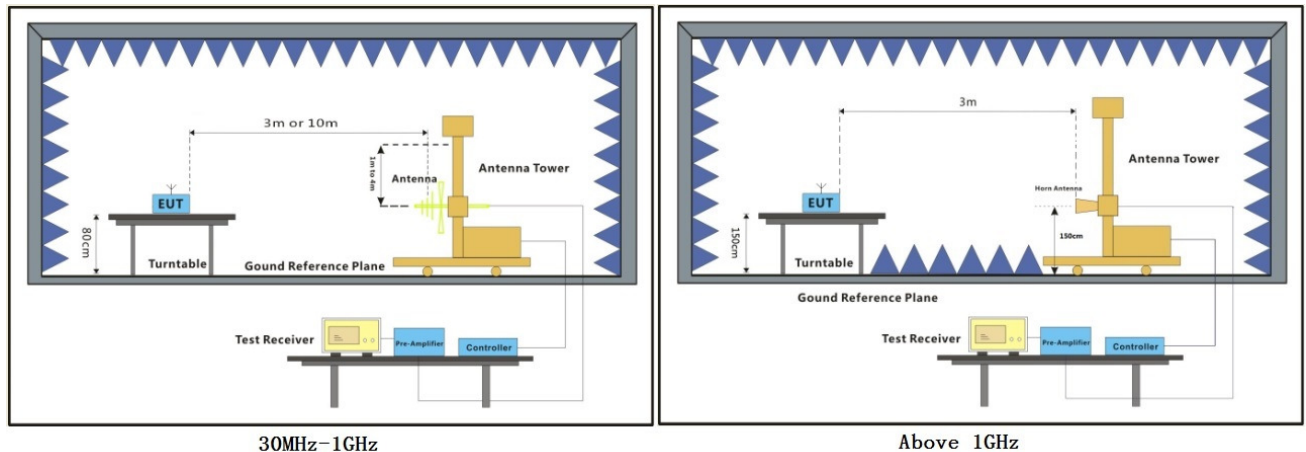
Operating Environment:

Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1005 mbar

Pretest these mode to find the worst case:
 c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery.
 d: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and adapter.

The worst case for final test: d: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and adapter.

7.7.2 Test Setup Diagram

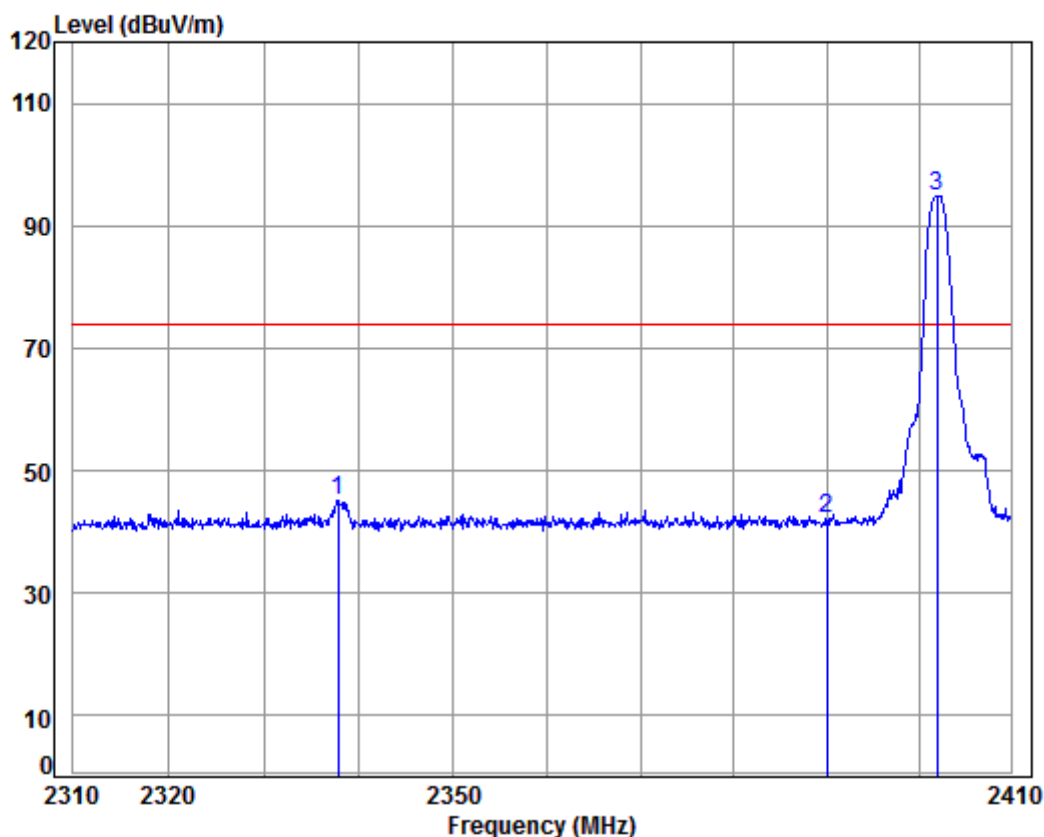


7.7.3 Measurement Procedure and Data

- 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

Mode:d; Polarization:Horizontal; Modulation Type:GFSK; Channel:Low



Condition: 3m HORIZONTAL

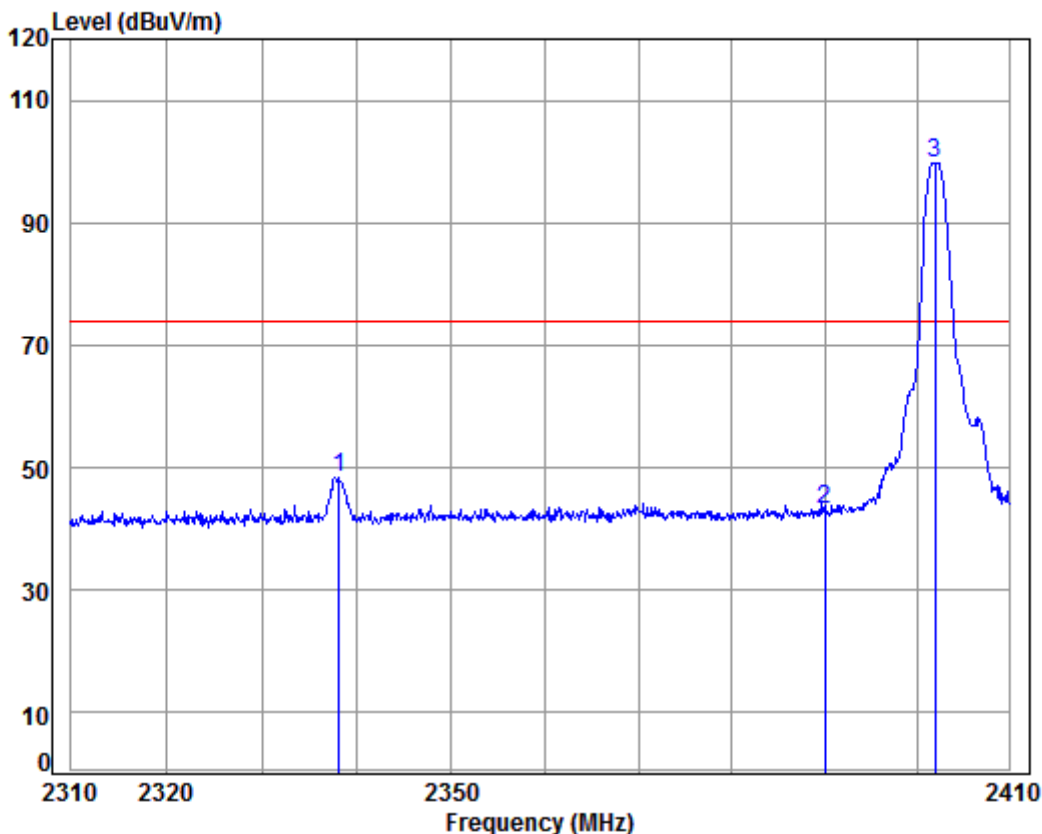
Job No : 09301CR

Mode : 2402 Band edge

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2337.871	5.40	28.92	37.96	48.82	45.18	74.00	-28.82	peak
2	2390.000	5.47	29.08	37.96	45.43	42.02	74.00	-31.98	peak
3 pp	2402.000	5.49	29.11	37.95	98.12	94.77	74.00	20.77	peak



Mode:d; Polarization:Vertical; Modulation Type:GFSK; Channel:Low



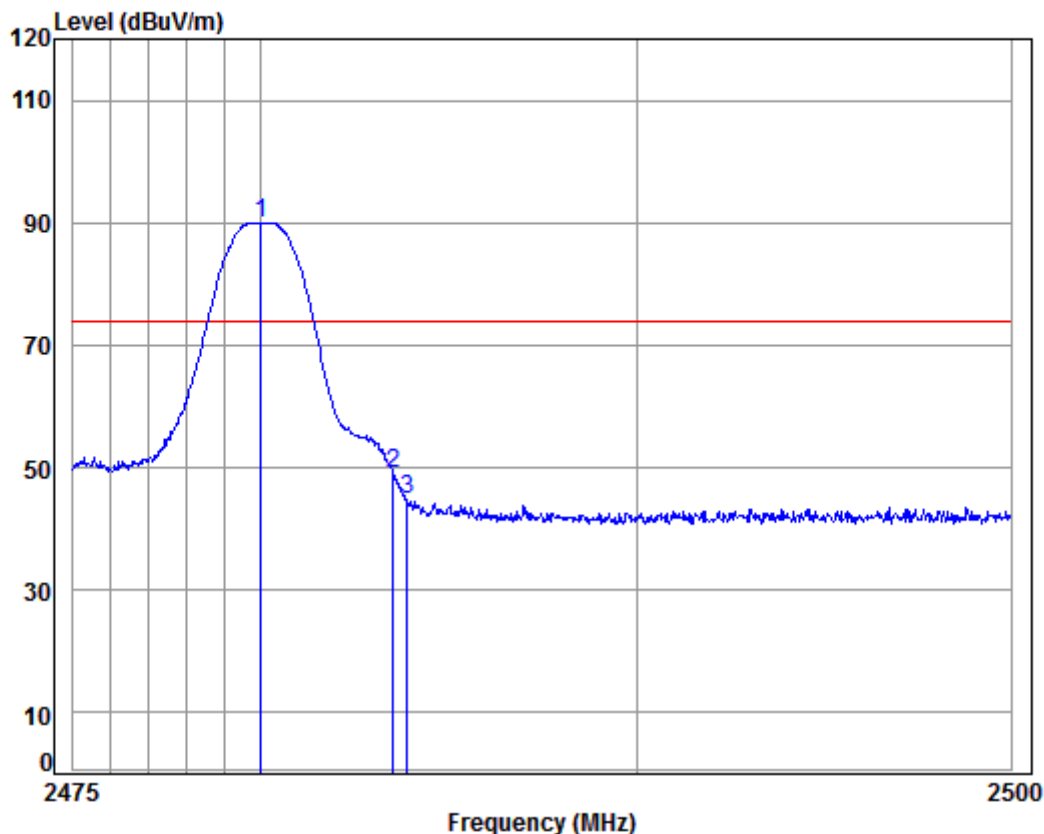
Condition: 3m VERTICAL

Job No : 09301CR

Mode : 2402 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2338.169	5.40	28.92	37.96	51.98	48.34	74.00	-25.66	Peak
2	2390.000	5.47	29.08	37.96	46.51	43.10	74.00	-30.90	Peak
3 pp	2402.000	5.49	29.11	37.95	103.07	99.72	74.00	25.72	Peak

Mode:d; Polarization:Horizontal; Modulation Type:GFSK; Channel:High



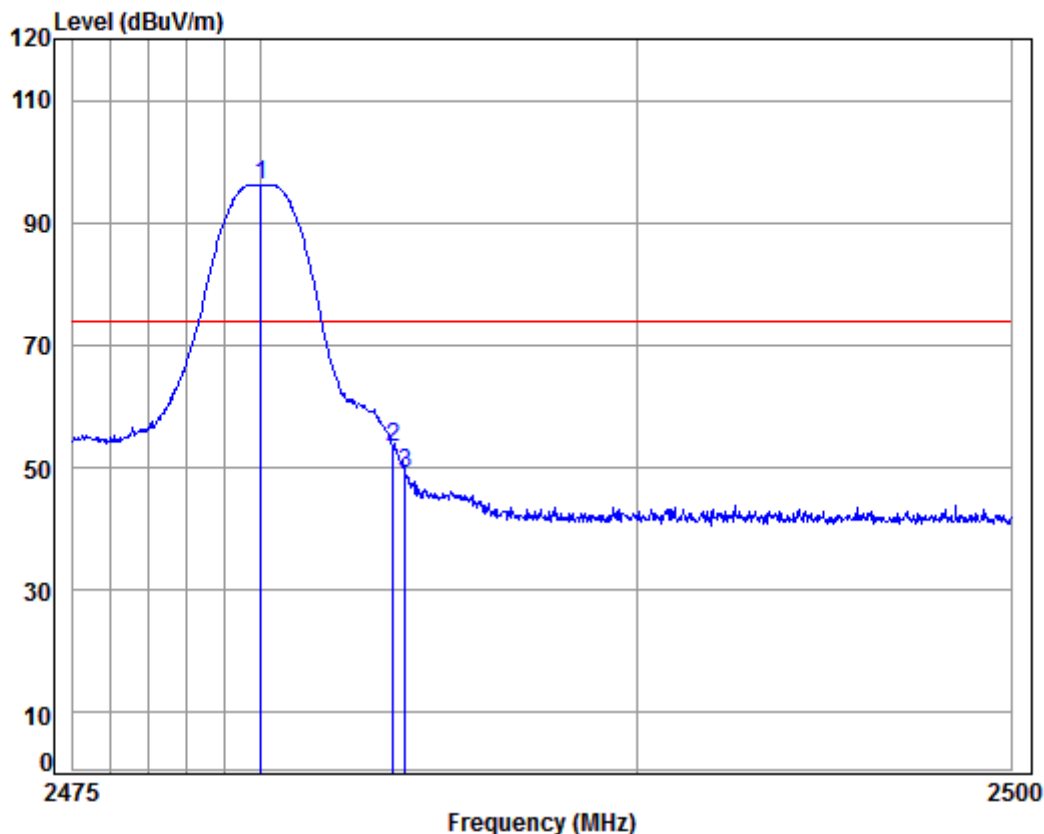
Condition: 3m HORIZONTAL

Job No : 09301CR

Mode : 2480 Band edge

		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	2480.000	5.59	29.34	37.95	93.03	90.01	74.00	16.01 peak
2	2483.500	5.60	29.35	37.95	52.21	49.21	74.00	-24.79 peak
3	2483.871	5.60	29.35	37.95	47.93	44.93	74.00	-29.07 peak

Mode:d; Polarization:Vertical; Modulation Type:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 09301CR

Mode : 2480 Band edge

		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	2480.000	5.59	29.34	37.95	99.30	96.28	74.00	22.28 Peak
2	2483.500	5.60	29.35	37.95	56.34	53.34	74.00	-20.66 Peak
3	2483.821	5.60	29.35	37.95	52.11	49.11	74.00	-24.89 Peak



7.8 Radiated Spurious Emissions

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

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

Measurement Distance: 3m

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.

7.8.1 E.U.T. Operation

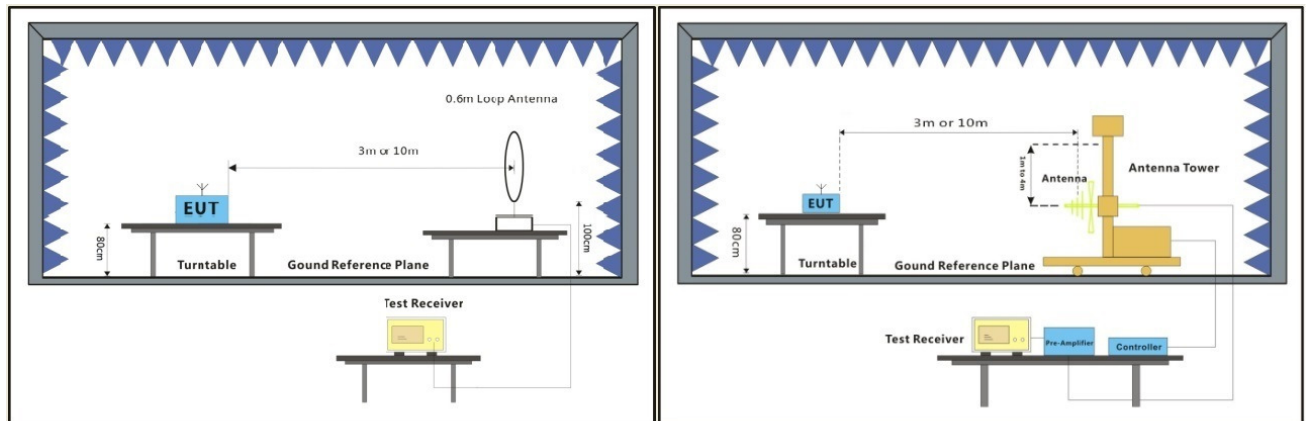
Operating Environment:

Temperature: 24 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

Pretest these mode to find the worst case:
 c: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and battery.
 d: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and adapter.

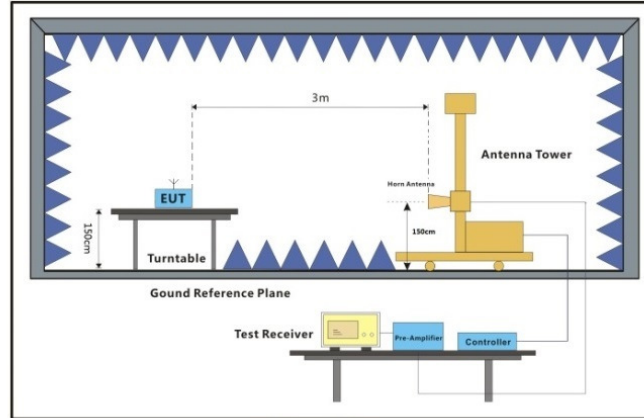
The worst case for final test: d: Tx mode, Keep the EUT in transmitting mode with GFSK modulation and adapter.

7.8.2 Test Setup Diagram



Below 30MHz

30MHz-1GHz



Above 1GHz



7.8.3 Measurement Procedure and Data

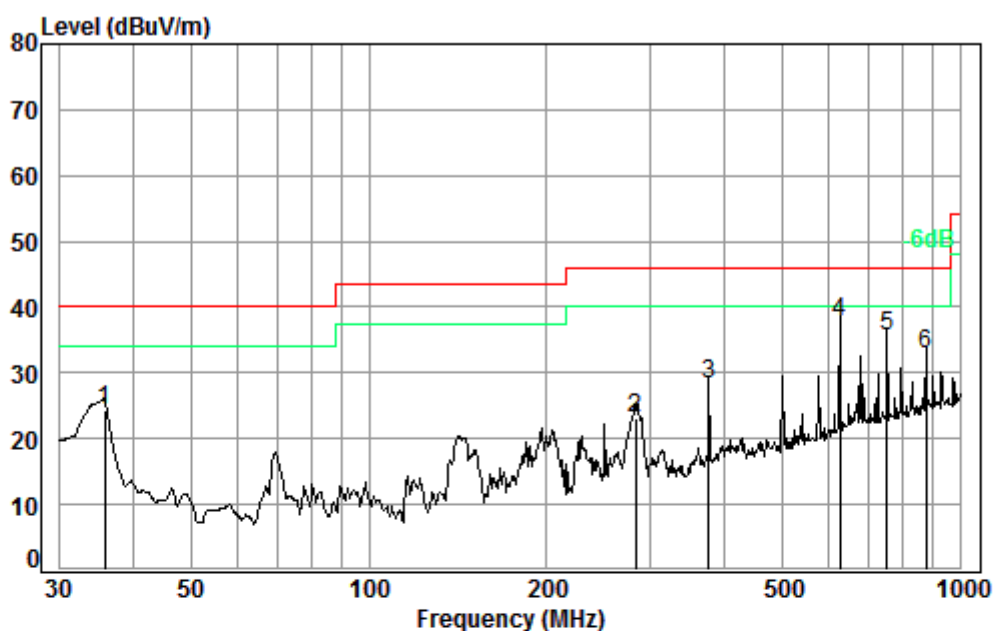
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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

30MHz~1GHz

QP value:

Mode: d; Polarization: Horizontal;



Condition: 3m HORIZONTAL

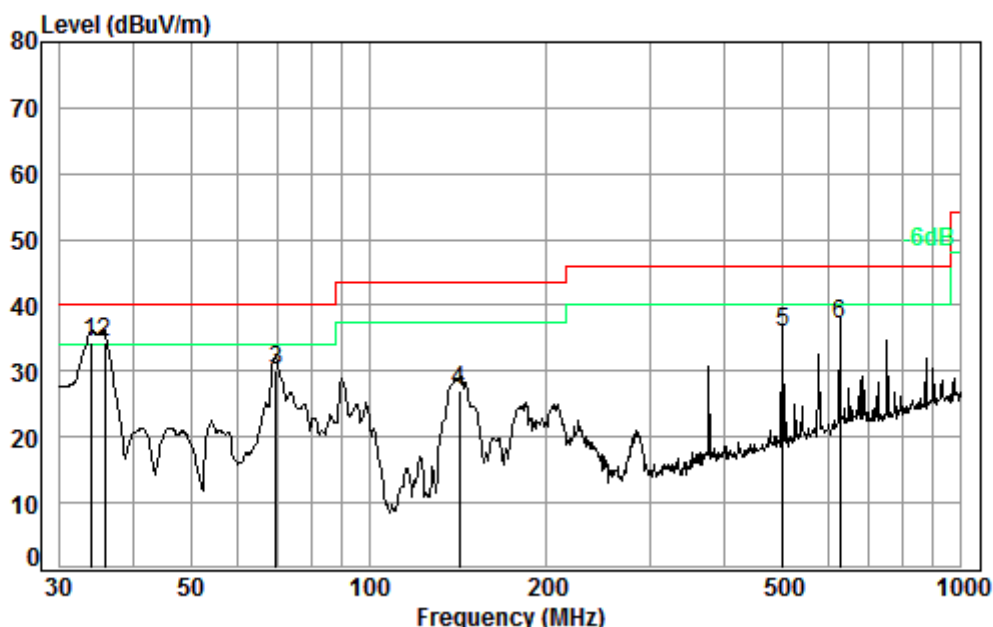
Job No. : 09301CR

Test mode: d

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	35.87	0.60	15.41	27.33	35.56	24.24	40.00	-15.76
2	281.99	1.82	13.11	26.45	34.77	23.25	46.00	-22.75
3	375.94	2.13	16.01	26.97	37.25	28.42	46.00	-17.58
4 pp	625.08	2.75	20.50	27.51	41.86	37.60	46.00	-8.40
5	750.11	3.06	21.70	27.35	38.06	35.47	46.00	-10.53
6	875.25	3.51	23.00	26.89	33.27	32.89	46.00	-13.11



Mode :d; Polarization: Vertical



Condition: 3m VERTICAL

Job No. : 09301CR

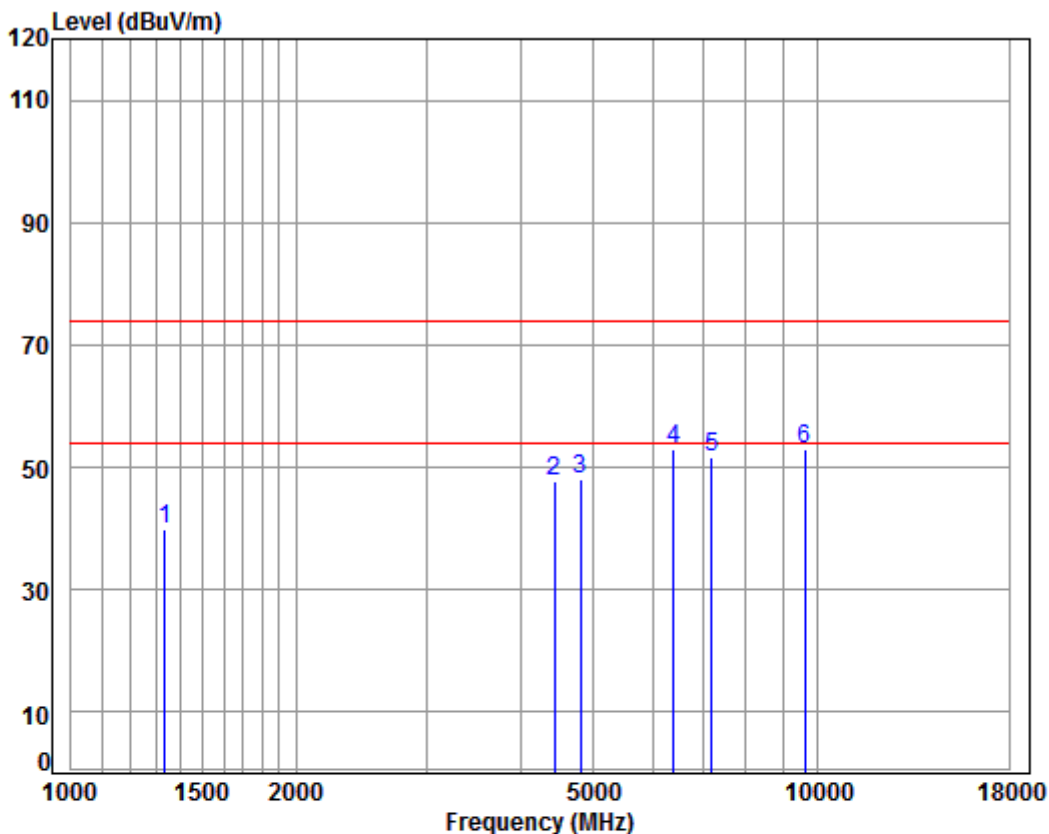
Test mode: d

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	33.92	0.60	16.51	27.34	44.53	34.30	40.00	-5.70
2	35.87	0.60	15.41	27.33	45.56	34.24	40.00	-5.76
3	69.84	0.80	6.90	27.25	49.68	30.13	40.00	-9.87
4	142.32	1.30	8.31	26.94	44.46	27.13	43.50	-16.37
5	501.18	2.60	17.83	27.69	43.06	35.80	46.00	-10.20
6	625.08	2.75	20.50	27.51	41.25	36.99	46.00	-9.01



Above 1GHz

Mode:d; Polarization:Horizontal; Modulation Type:GFSK; Channel:Low



Condition: 3m HORIZONTAL

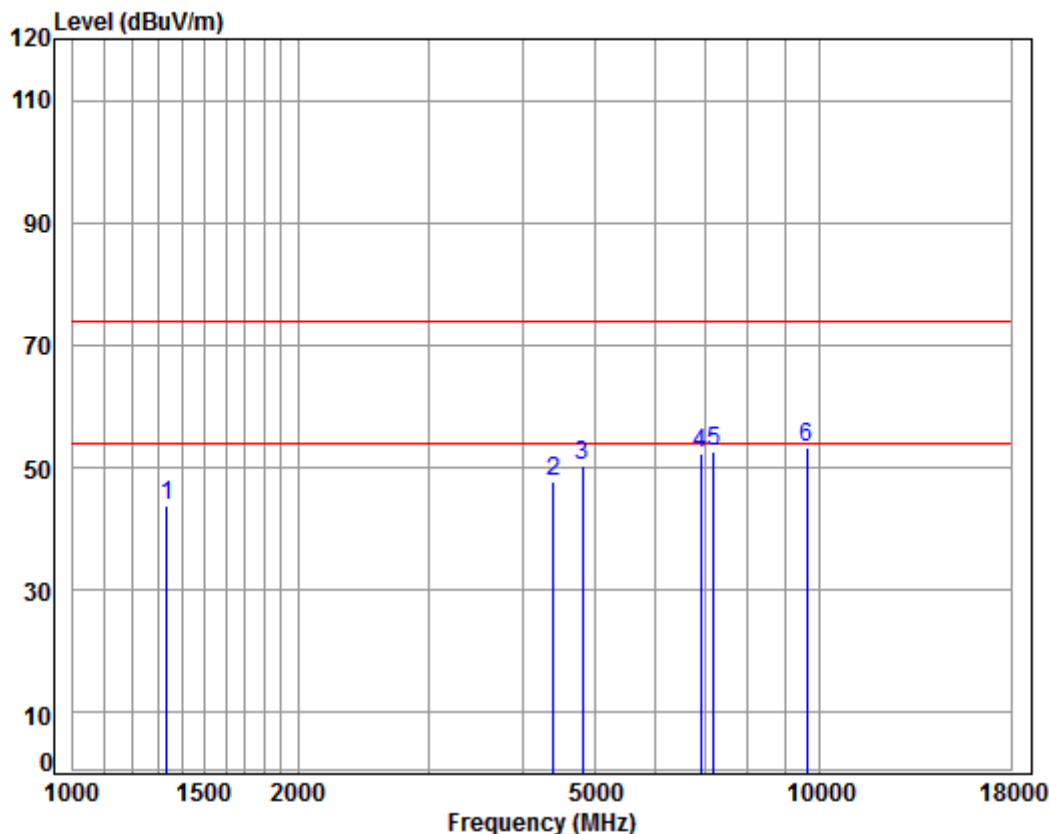
Job No : 09301CR

Mode : 2402 TX SE

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	4.93	25.11	38.06	48.04	40.02	74.00	-33.98	peak
2	4430.628	7.48	33.60	38.23	44.86	47.71	74.00	-26.29	peak
3	4804.000	7.89	34.16	38.41	44.27	47.91	74.00	-26.09	peak
4	6414.167	11.38	35.03	37.87	44.27	52.81	74.00	-21.19	peak
5	7206.000	10.08	36.42	37.10	42.17	51.57	74.00	-22.43	peak
6 pp	9608.000	10.75	37.52	35.09	39.64	52.82	74.00	-21.18	peak



Mode:d; Polarization:Vertical; Modulation Type:GFSK; Channel:Low



Condition: 3m VERTICAL

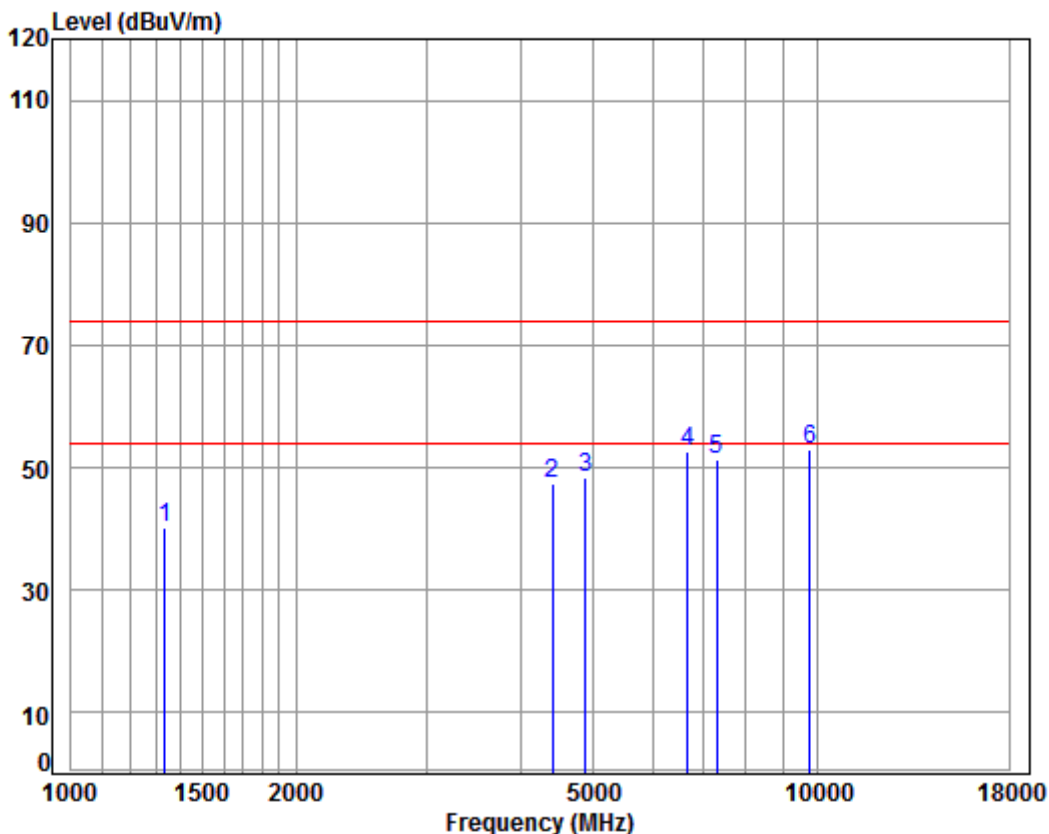
Job No : 09301CR

Mode : 2402 TX SE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	4.93	25.11	38.06	51.85	43.83	74.00	-30.17	peak
2	4392.376	7.44	33.60	38.21	44.89	47.72	74.00	-26.28	peak
3	4804.000	7.89	34.16	38.41	46.76	50.40	74.00	-23.60	peak
4	6914.763	10.36	36.27	37.38	43.05	52.30	74.00	-21.70	peak
5	7206.000	10.08	36.42	37.10	43.37	52.77	74.00	-21.23	peak
6 pp	9608.000	10.75	37.52	35.09	40.16	53.34	74.00	-20.66	peak



Mode:d; Polarization:Horizontal; Modulation Type:GFSK; Channel:middle



Condition: 3m HORIZONTAL

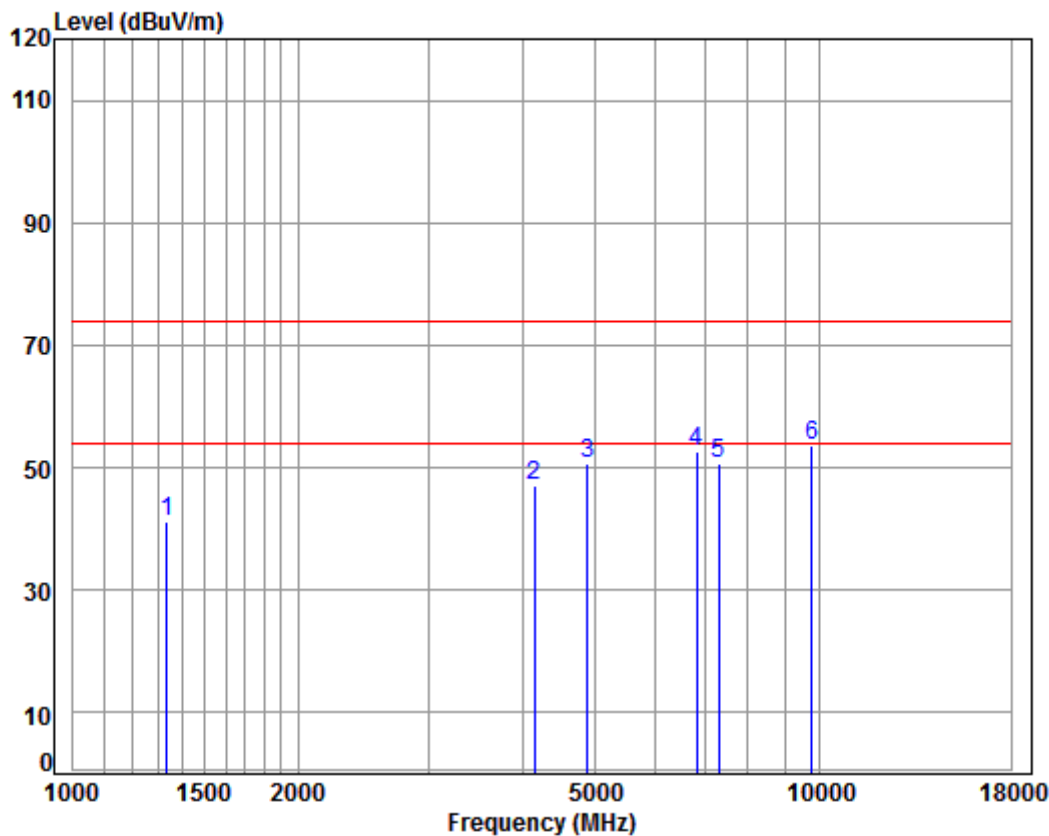
Job No : 09301CR

Mode : 2440 TX SE

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	4.93	25.11	38.06	48.23	40.21	74.00	-33.79	peak
2	4405.090	7.46	33.60	38.22	44.60	47.44	74.00	-26.56	peak
3	4880.000	7.97	34.29	38.45	44.54	48.35	74.00	-25.65	peak
4	6679.040	11.02	35.61	37.60	43.59	52.62	74.00	-21.38	peak
5	7320.000	10.05	36.37	37.00	41.81	51.23	74.00	-22.77	peak
6 pp	9760.000	10.82	37.55	35.02	39.54	52.89	74.00	-21.11	peak



Mode:d; Polarization:Vertical; Modulation Type:GFSK; Channel:middle



Condition: 3m VERTICAL

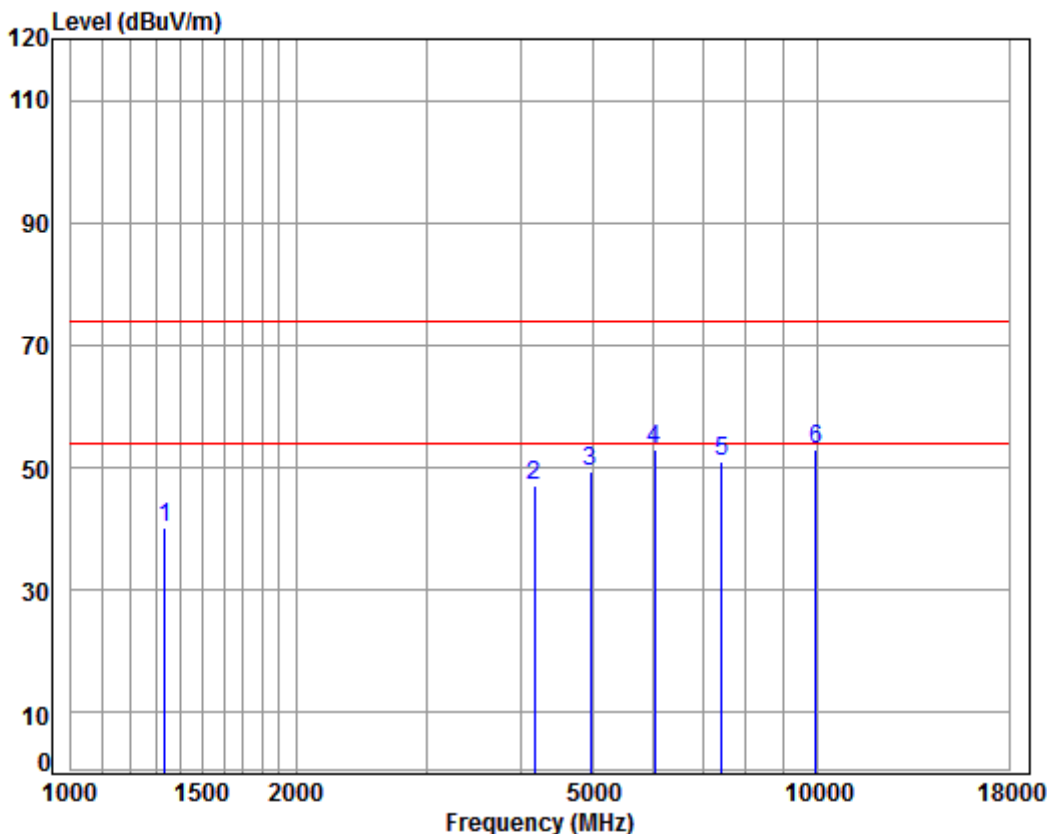
Job No : 09301CR

Mode : 2440 TX SE

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	4.93	25.11	38.06	49.13	41.11	74.00	-32.89	peak
2	4145.664	7.16	33.60	38.08	44.33	47.01	74.00	-26.99	peak
3	4880.000	7.97	34.29	38.45	46.81	50.62	74.00	-23.38	peak
4	6835.278	10.58	36.05	37.45	43.47	52.65	74.00	-21.35	peak
5	7320.000	10.05	36.37	37.00	41.30	50.72	74.00	-23.28	peak
6 pp	9760.000	10.82	37.55	35.02	40.31	53.66	74.00	-20.34	peak



Mode:d; Polarization:Horizontal; Modulation Type:GFSK; Channel:High



Condition: 3m HORIZONTAL

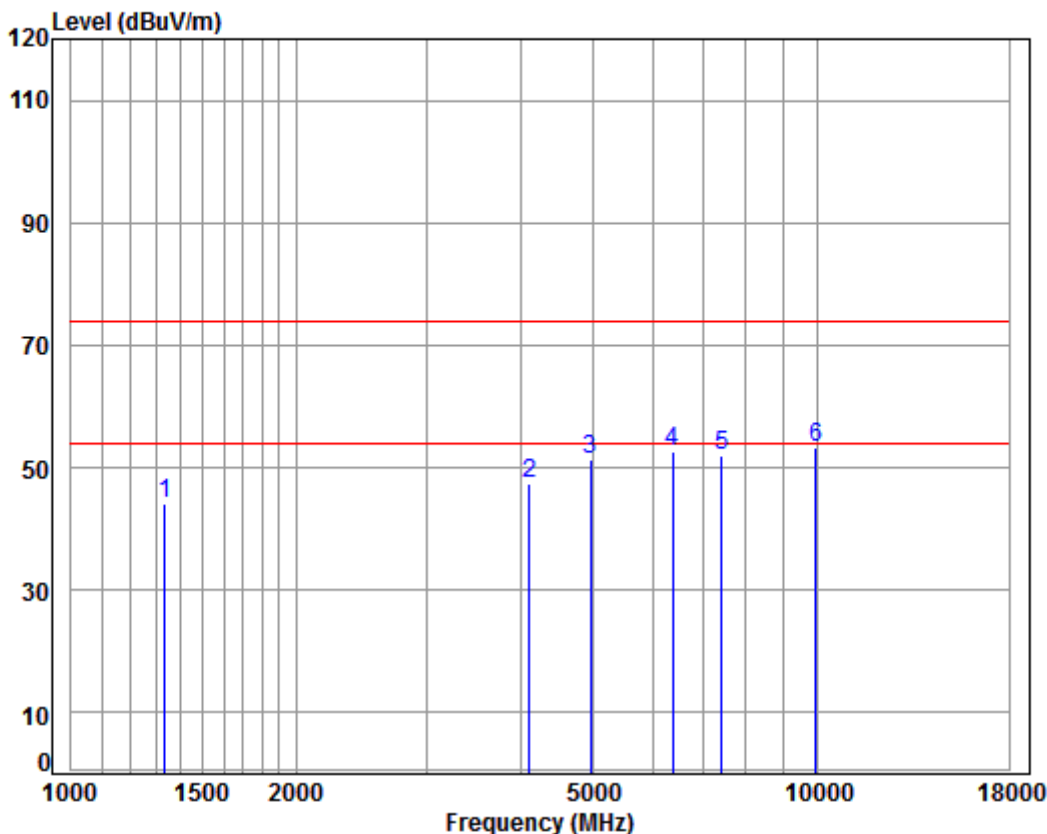
Job No : 09301CR

Mode : 2480 TX SE

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	4.93	25.11	38.06	48.13	40.11	74.00	-33.89	peak
2	4169.698	7.18	33.60	38.09	44.44	47.13	74.00	-26.87	peak
3	4960.000	8.05	34.43	38.48	45.35	49.35	74.00	-24.65	peak
4	6036.421	10.64	34.73	38.26	45.80	52.91	74.00	-21.09	peak
5	7440.000	10.02	36.32	36.89	41.50	50.95	74.00	-23.05	peak
6 pp	9920.000	10.90	37.58	34.94	39.52	53.06	74.00	-20.94	peak



Mode:d; Polarization:Vertical; Modulation Type:GFSK; Channel:High



Condition: 3m VERTICAL

Job No : 09301CR

Mode : 2480 TX SE

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1335.141	4.93	25.11	38.06	52.09	44.07	74.00	-29.93	peak
2	4109.872	7.11	33.60	38.06	44.71	47.36	74.00	-26.64	peak
3	4960.000	8.05	34.43	38.48	47.27	51.27	74.00	-22.73	peak
4	6377.195	11.31	35.00	37.90	44.14	52.55	74.00	-21.45	peak
5	7440.000	10.02	36.32	36.89	42.53	51.98	74.00	-22.02	peak
6 pp	9920.000	10.90	37.58	34.94	39.76	53.30	74.00	-20.70	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) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

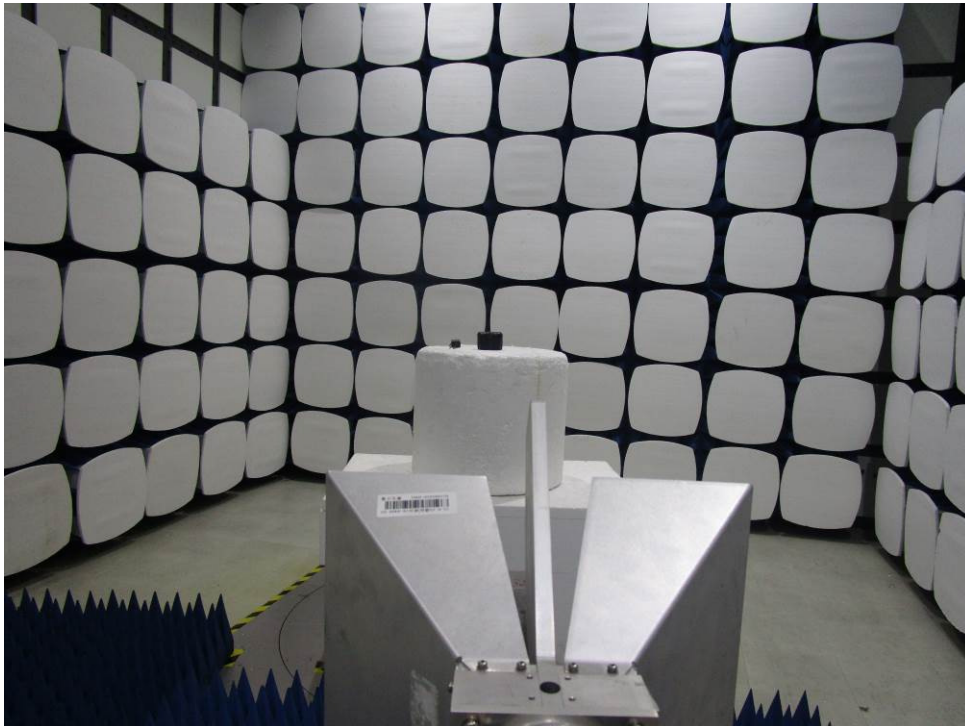
3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

8 Photographs

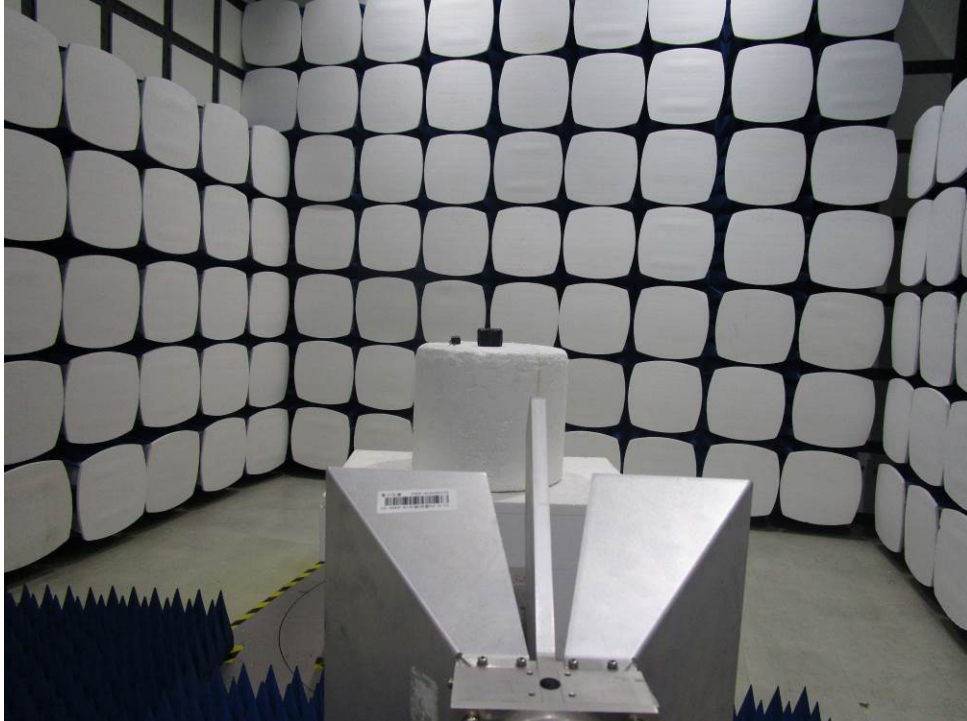
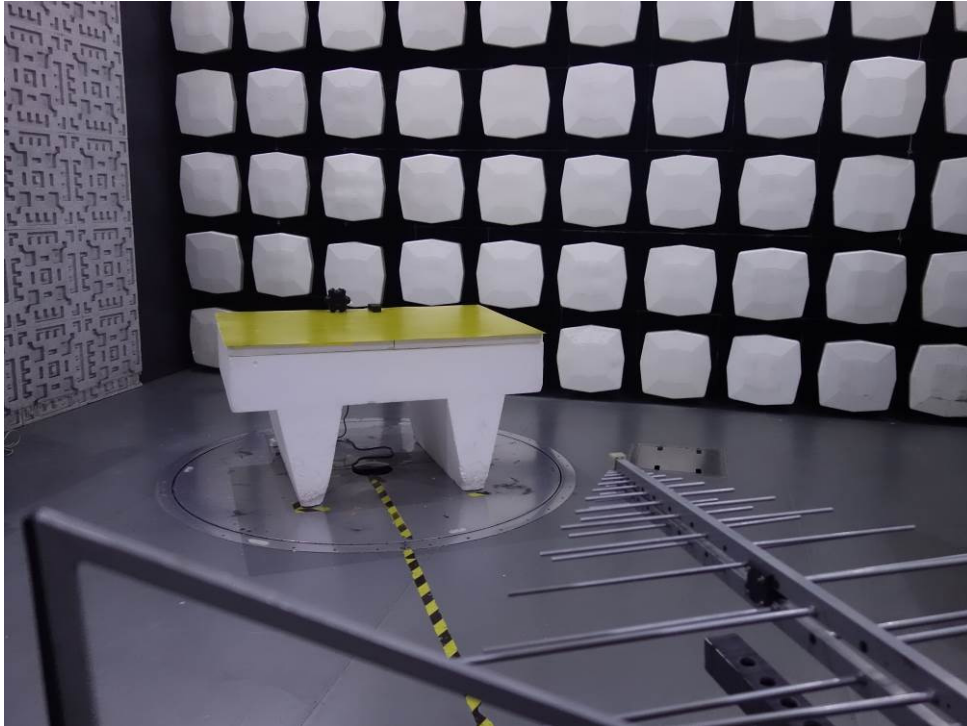
8.1 Conducted Emissions at AC Power Line (150kHz-30MHz) Test Setup



8.2 Radiated Emissions which fall in the restricted bands Test Setup



8.3 Radiated Spurious Emissions Test Setup





8.4 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1708009301CR.

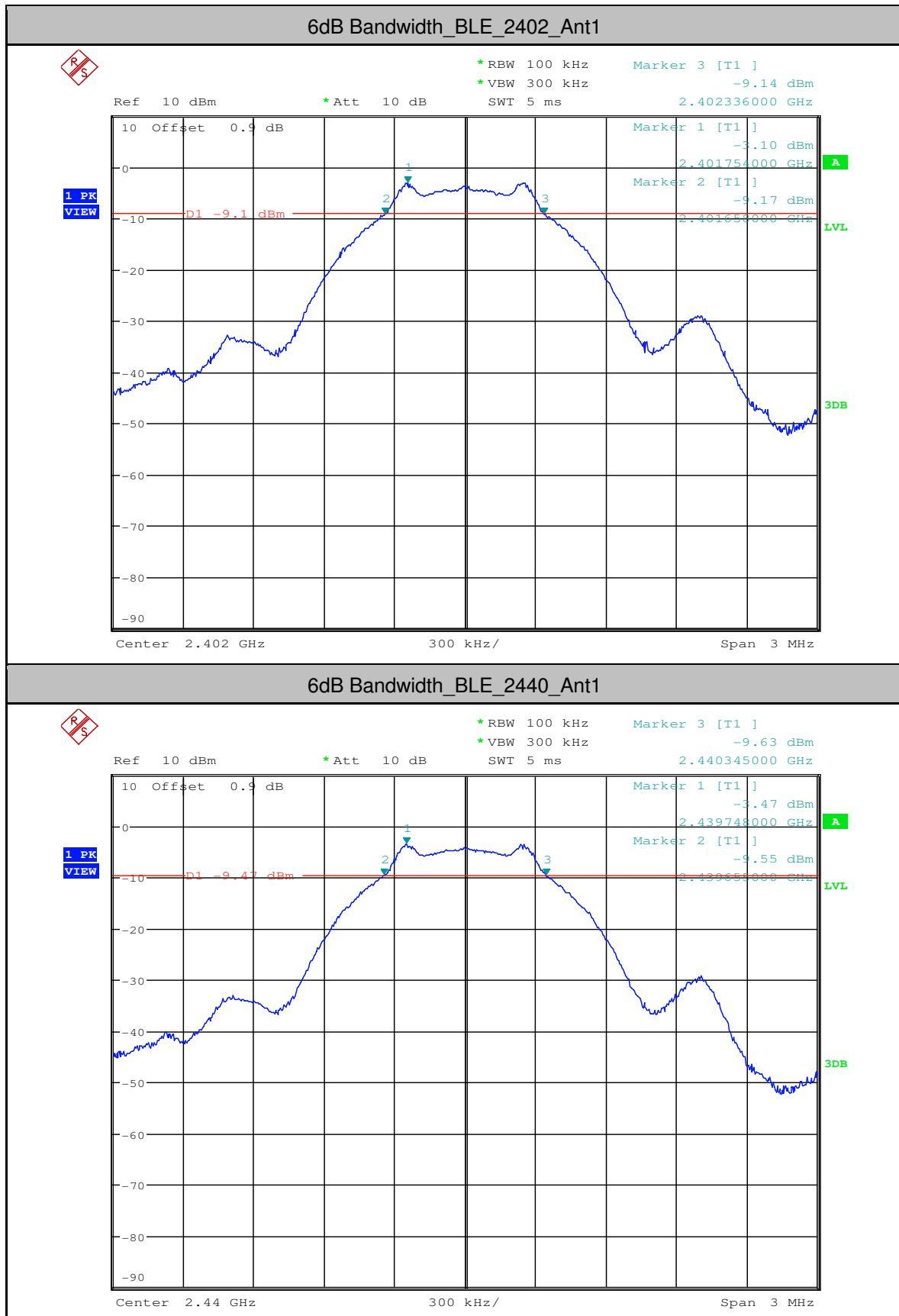


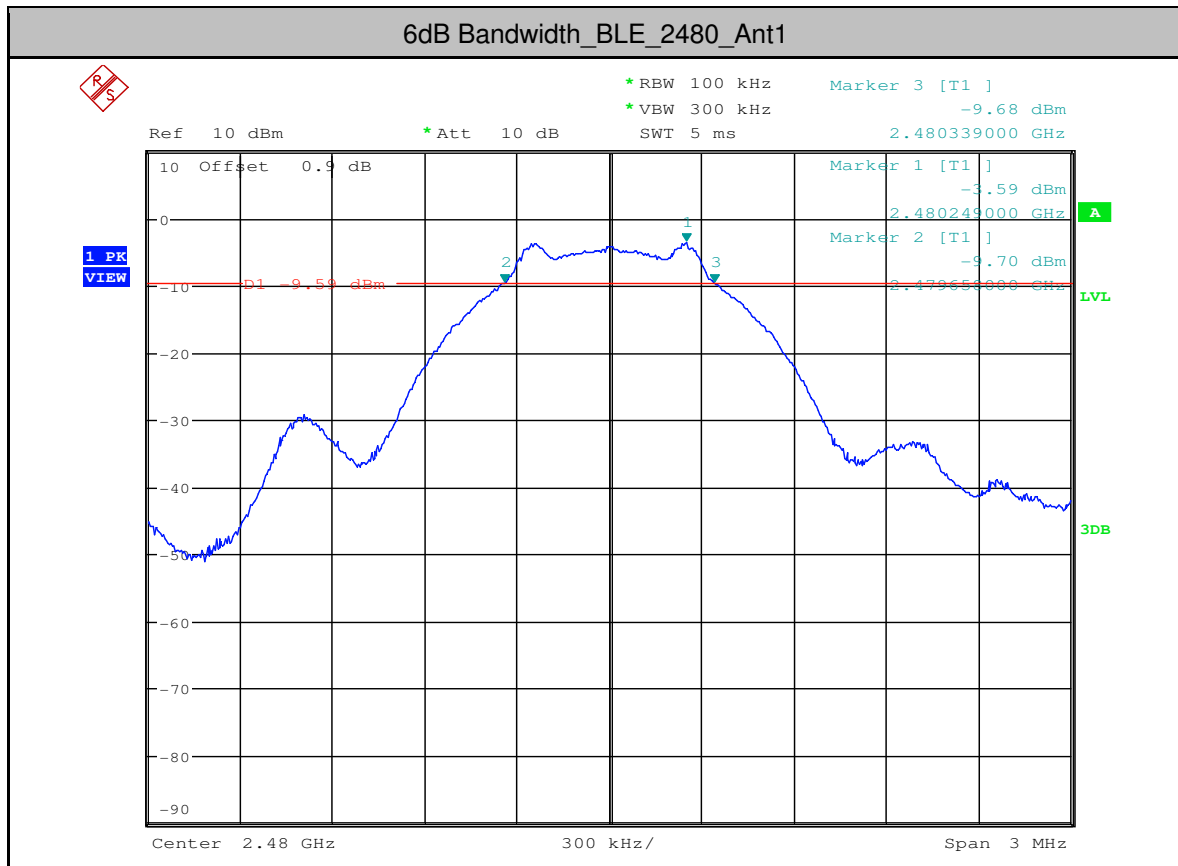
Appendix

8.5 Appendix 15.247

1.6dB Bandwidth

Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
BLE	2402	Ant1	0.678	≥ 0.5	PASS
BLE	2440	Ant1	0.690	≥ 0.5	PASS
BLE	2480	Ant1	0.681	≥ 0.5	PASS

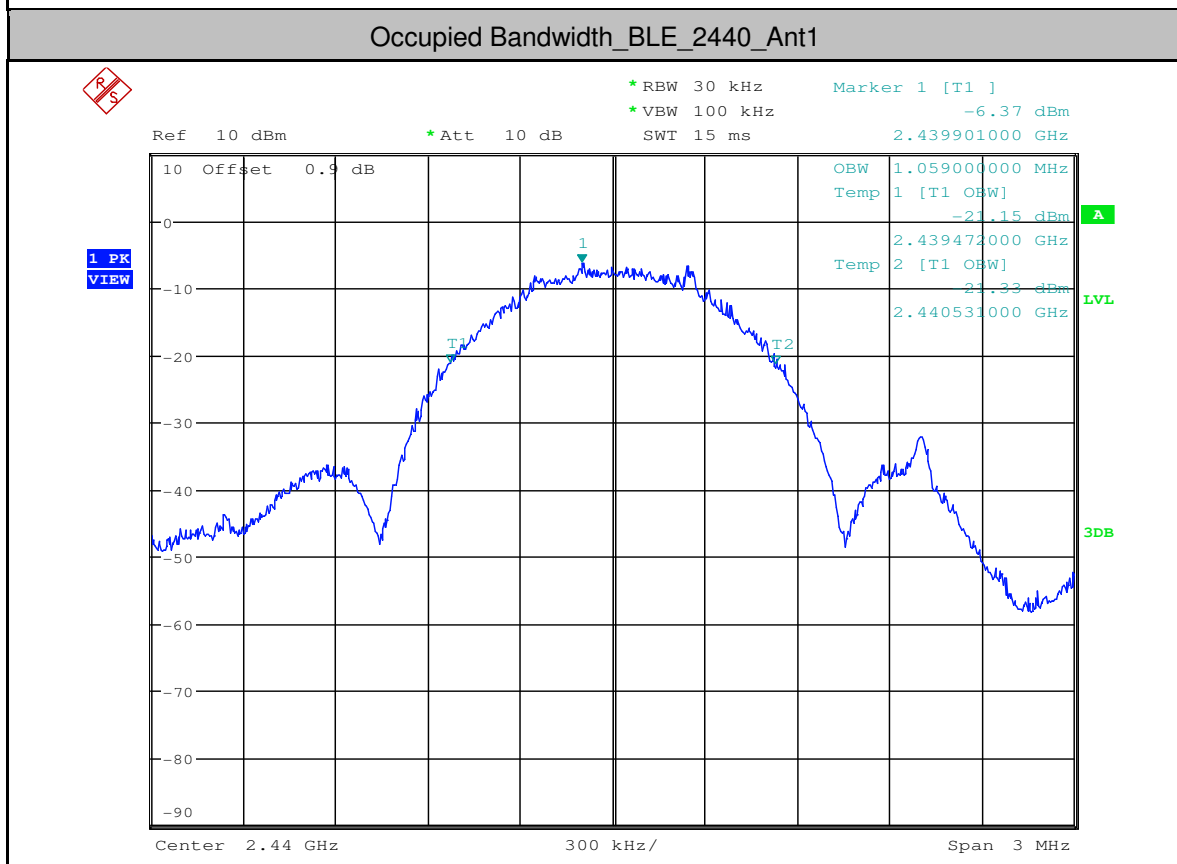
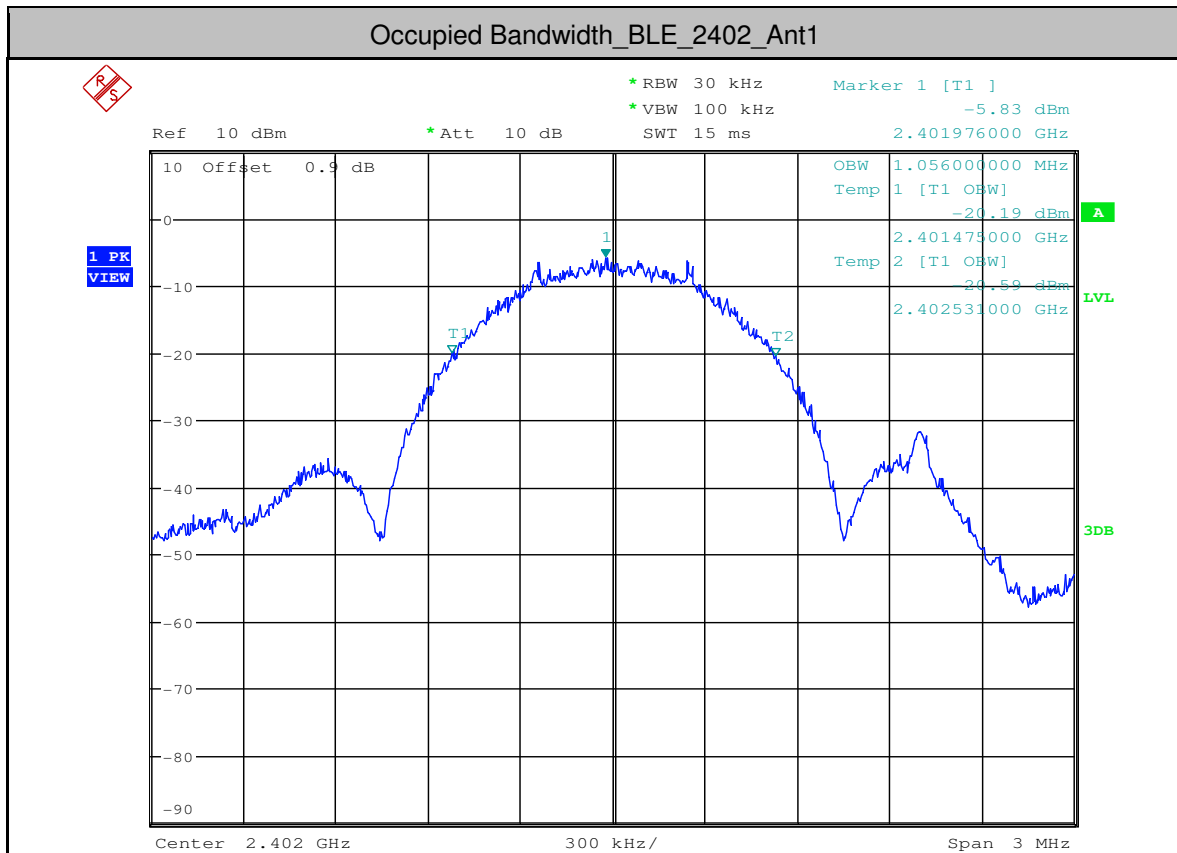


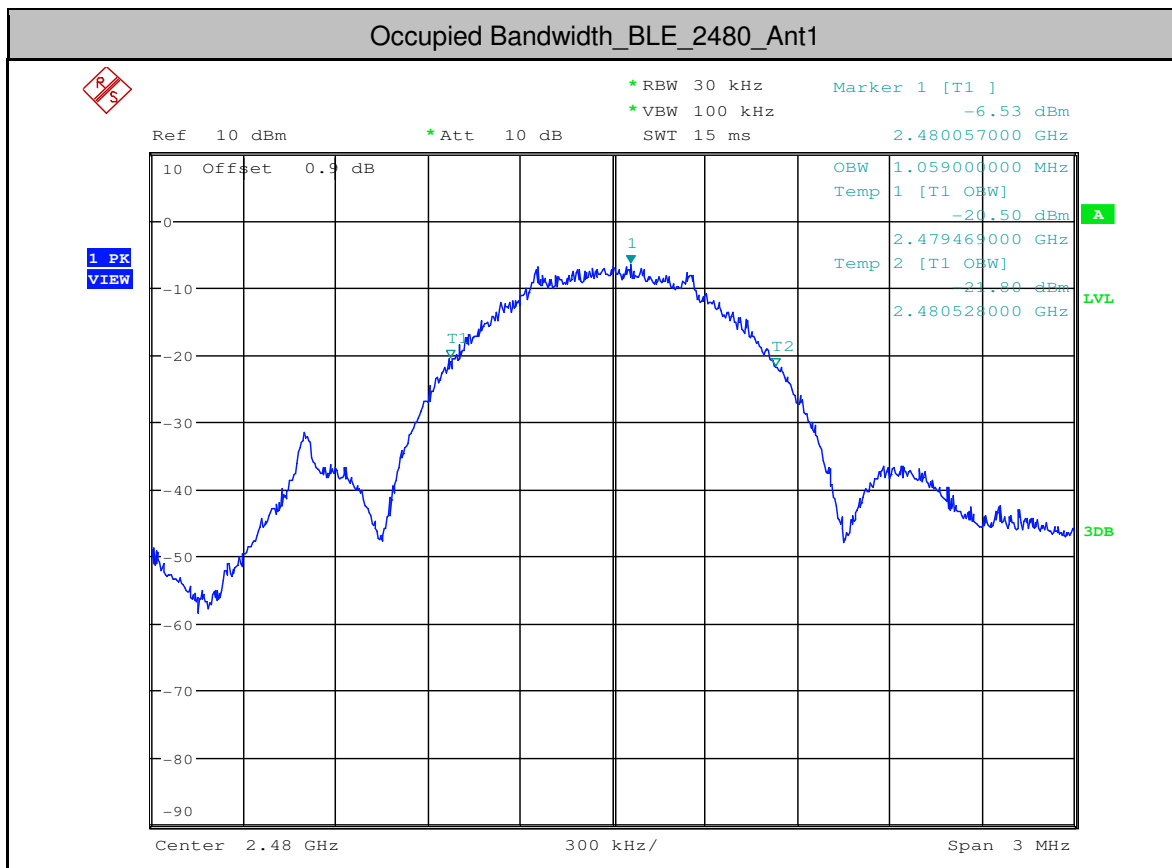




2.Occupied Bandwidth

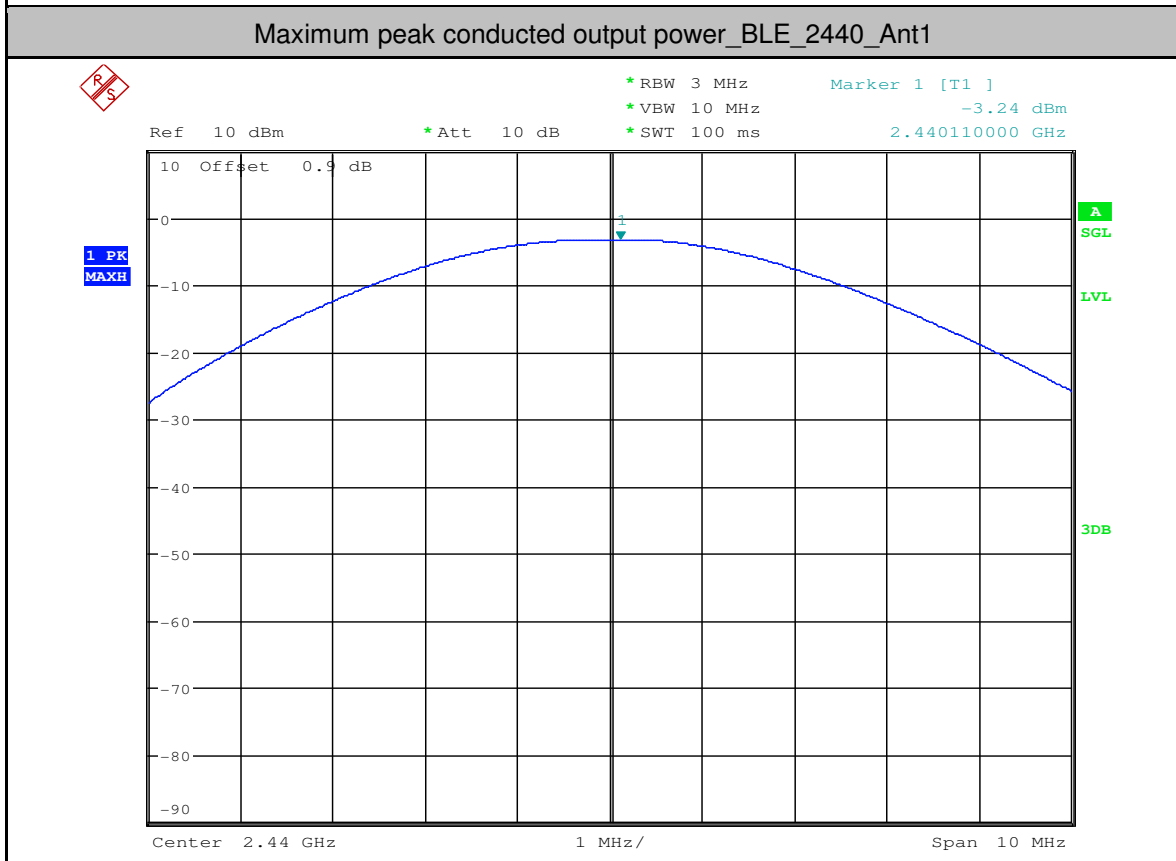
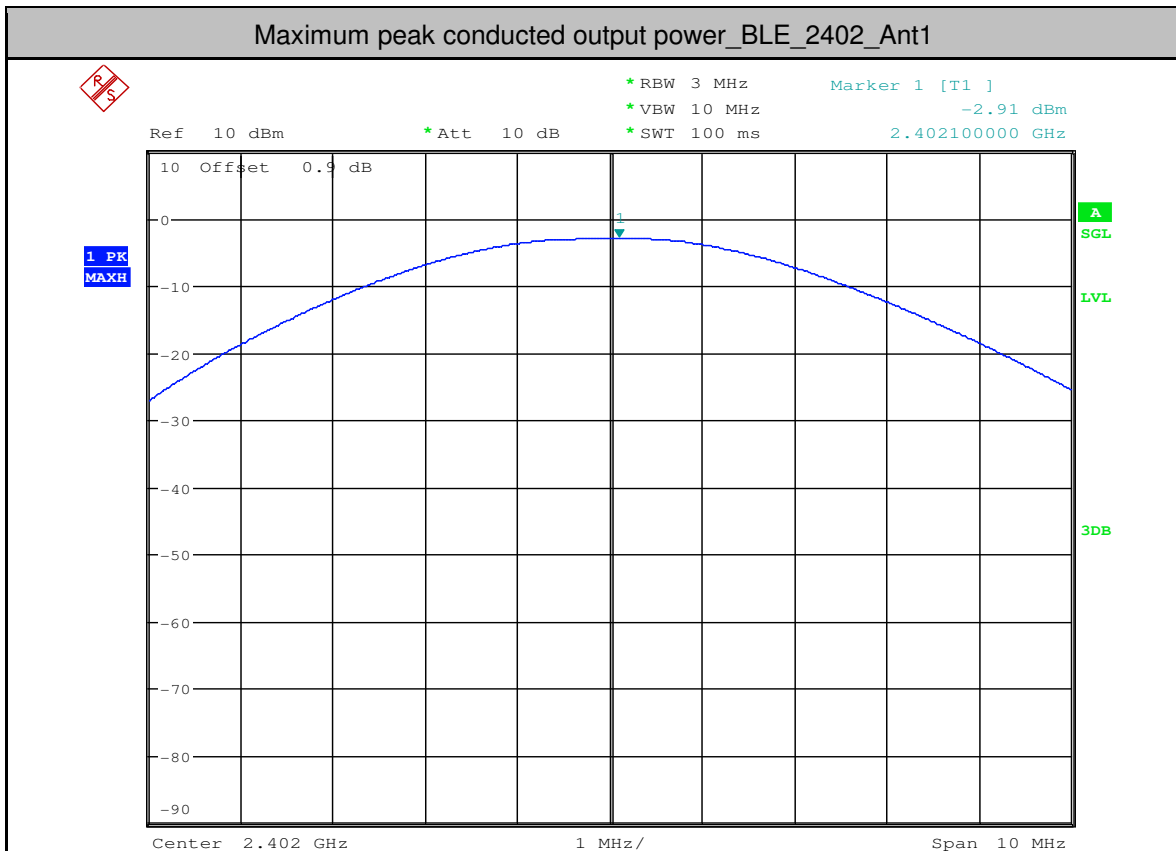
Test Mode	Test Channel	Ant	OBW[MHz]	Limit[MHz]	Verdict
BLE	2402	Ant1	1.056	---	PASS
BLE	2440	Ant1	1.059	---	PASS
BLE	2480	Ant1	1.059	---	PASS

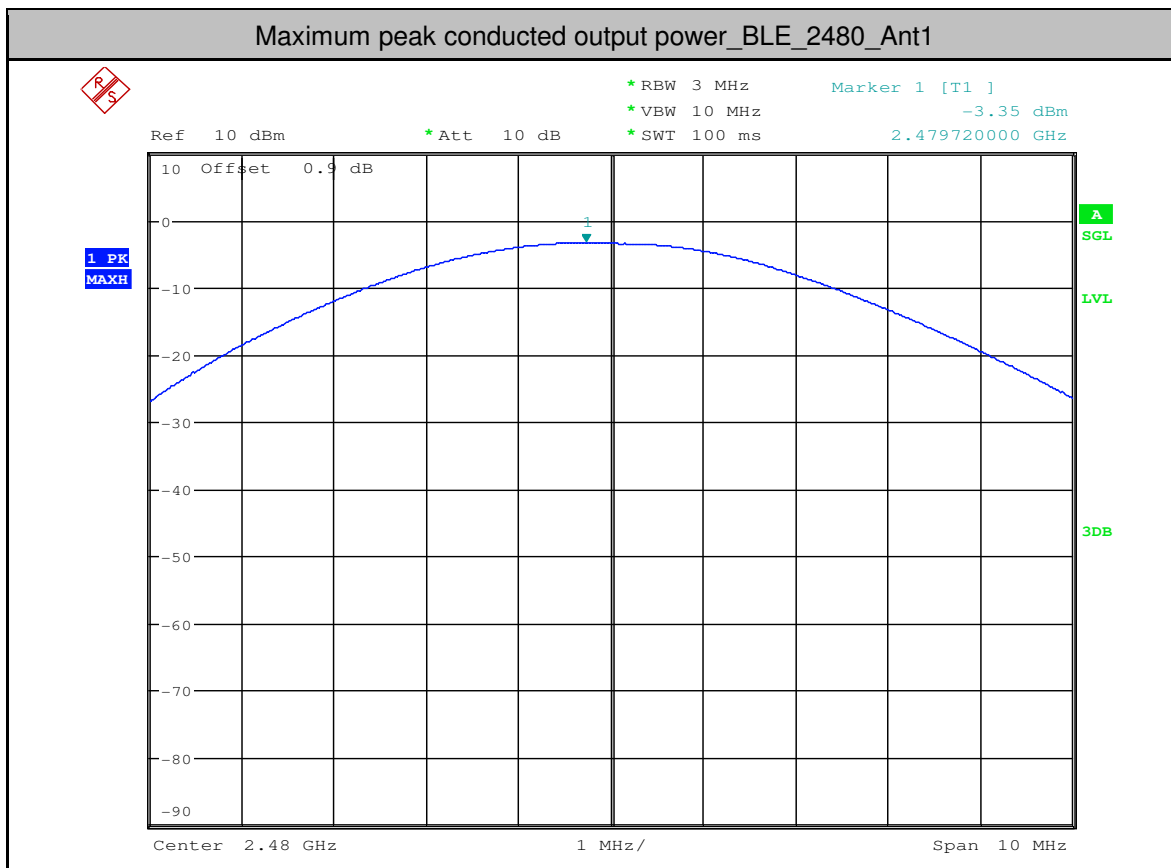




3.Maximum peak conducted output power

Test Mode	Test Channel	Ant	Power[dBm]	Limit[dBm]	Verdict
BLE	2402	Ant1	-2.91	<30	PASS
BLE	2440	Ant1	-3.24	<30	PASS
BLE	2480	Ant1	-3.35	<30	PASS



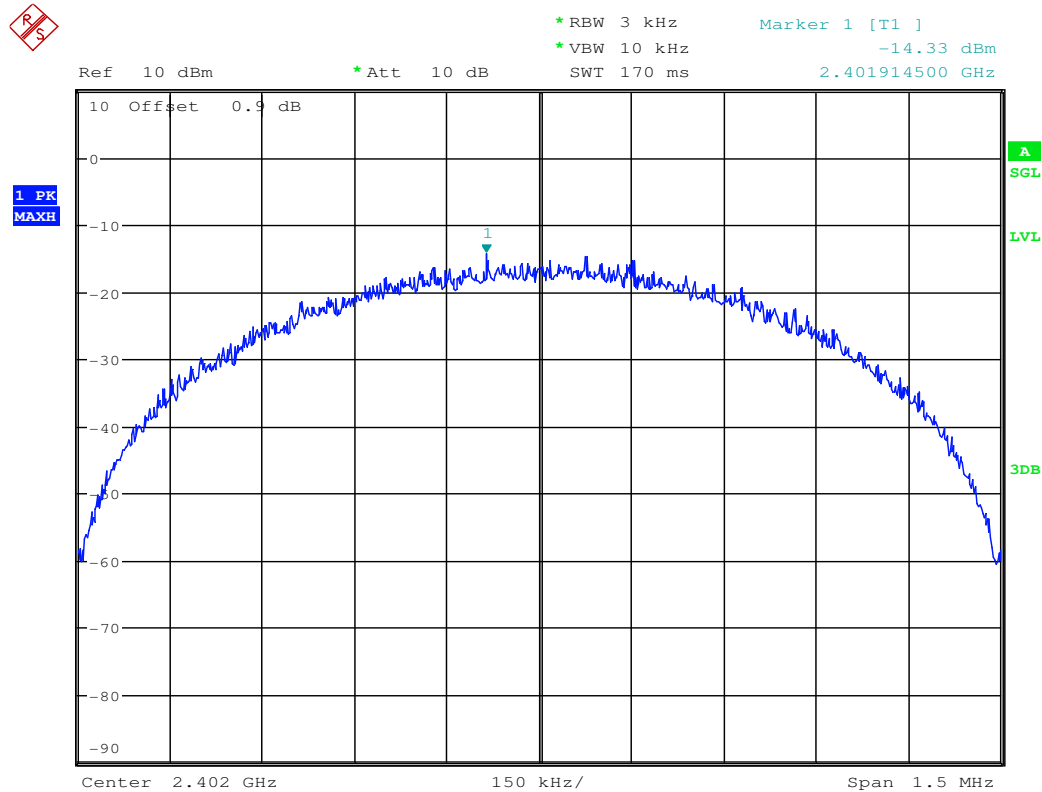


4.Maximum Peak power spectral density

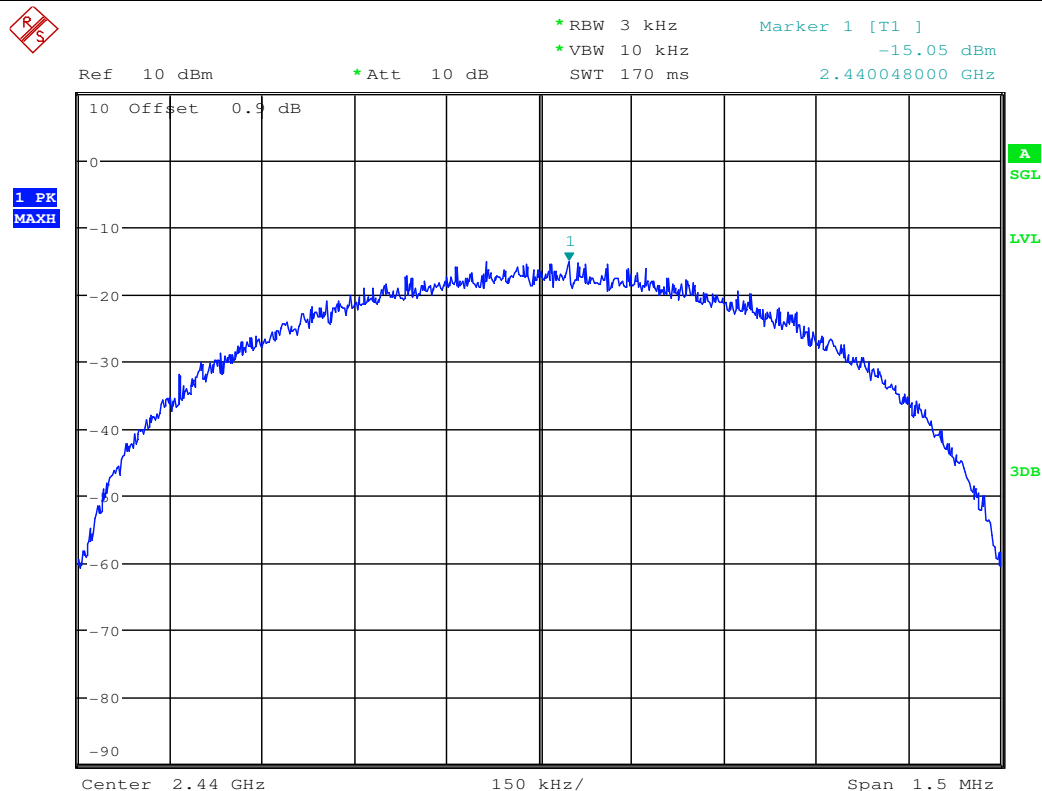
Test Mode	Test Channel	Ant	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE	2402	Ant1	-14.33	<8.00	PASS
BLE	2440	Ant1	-15.05	<8.00	PASS
BLE	2480	Ant1	-14.81	<8.00	PASS

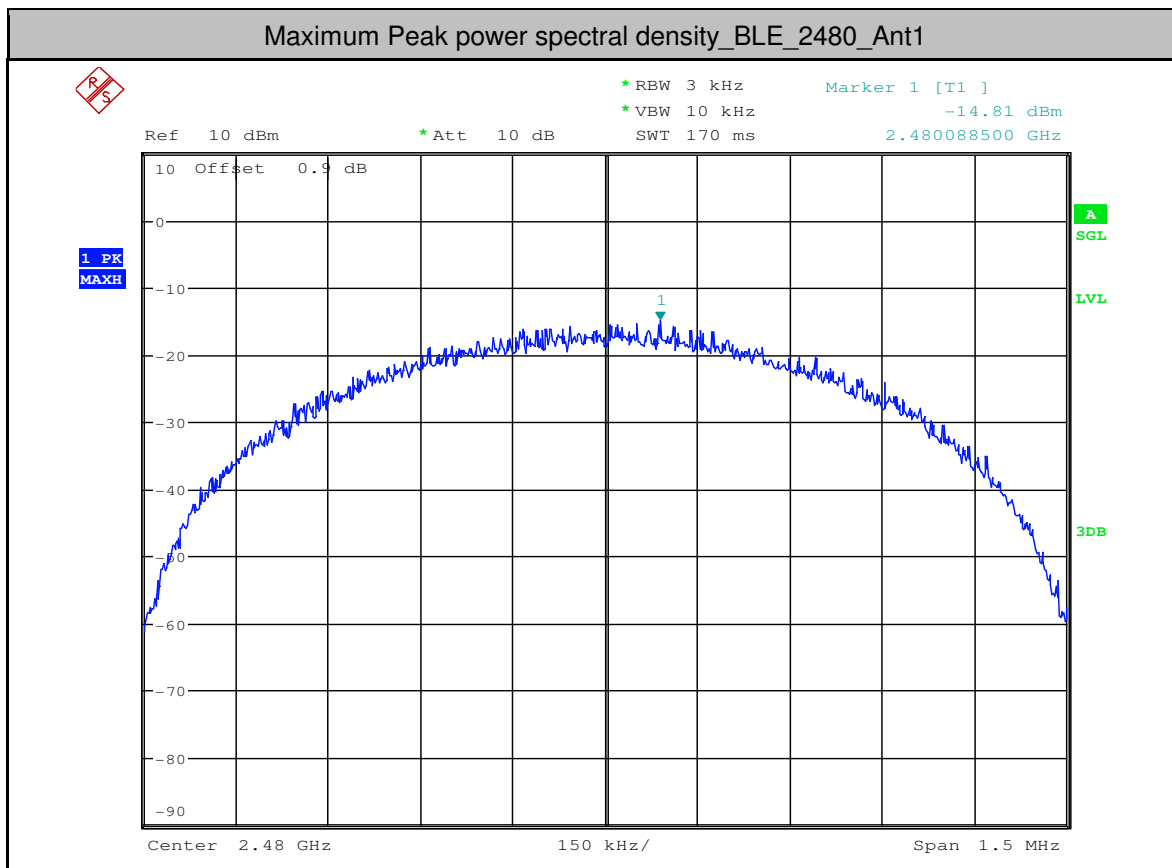


Maximum Peak power spectral density_BLE_2402_Ant1



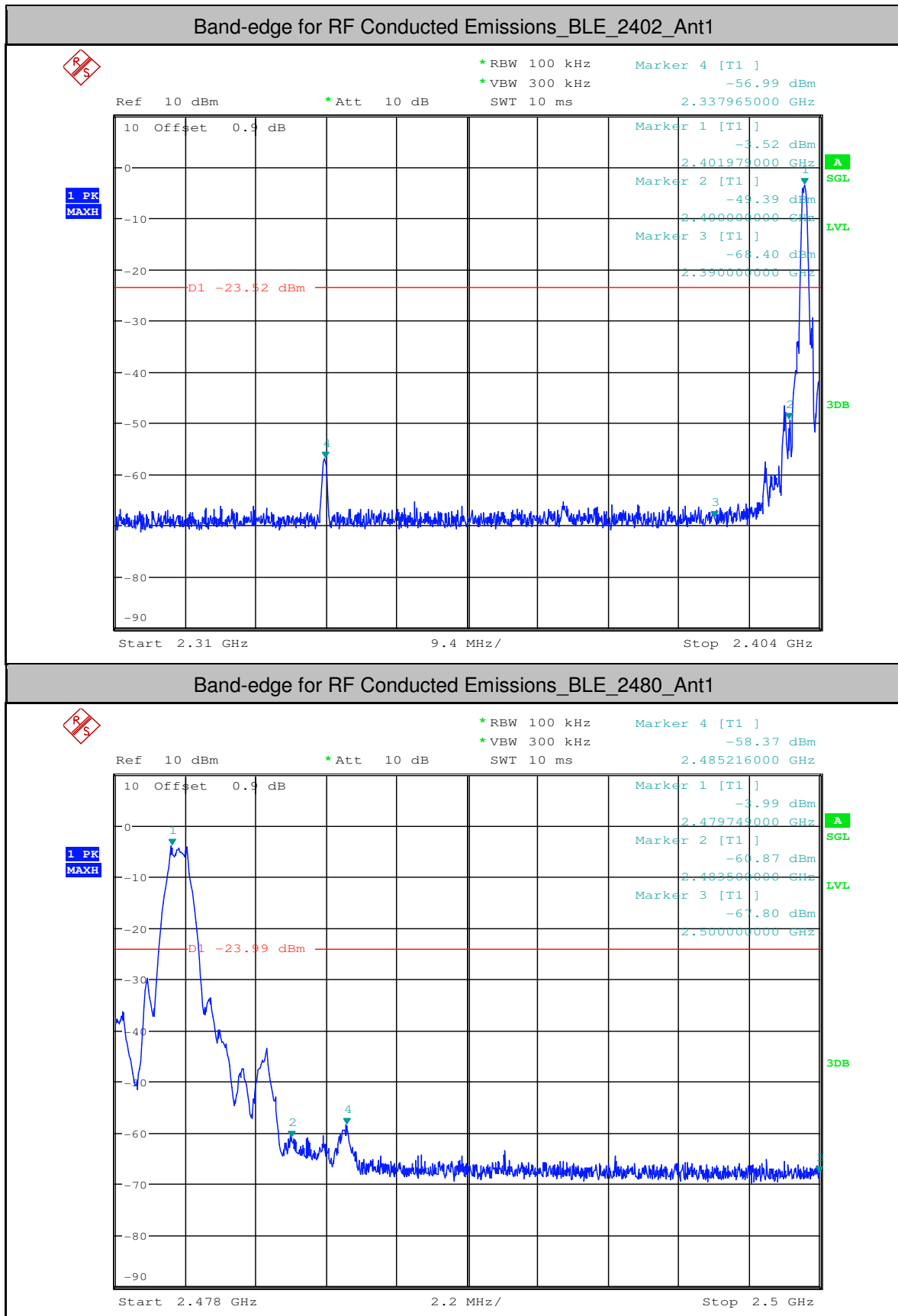
Maximum Peak power spectral density_BLE_2440_Ant1





5.Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Ant	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	2402	Ant1	-3.520	-56.992	<-23.52	PASS
BLE	2480	Ant1	-3.990	-58.365	<-23.99	PASS





6.RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref[dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
BLE	2402	30	10000	1000	3000	-3.08	-33.800	<-23.08	PASS
BLE	2402	10000	25000	1000	3000	-3.08	-64.870	<-23.08	PASS
BLE	2440	30	10000	1000	3000	-3.7	-33.460	<-23.7	PASS
BLE	2440	10000	25000	1000	3000	-3.7	-65.260	<-23.7	PASS
BLE	2480	30	10000	1000	3000	-3.45	-33.640	<-23.45	PASS
BLE	2480	10000	25000	1000	3000	-3.45	-65.490	<-23.45	PASS

