

FCC Radio Test Report

FCC ID: 2AAH9-3700

Original Grant

Report No. : TB-FCC180399
Applicant : Navori Inc.
Equipment Under Test (EUT)
EUT Name : StiX
Model No. : 3700
Series Model No. : N/A
Brand Name : Navori
Sample ID : TBBJ-20210325-18_01-1#&20210325-18_01-2#
Receipt Date : 2021-05-14
Test Date : 2021-05-14 to 2021-06-28
Issue Date : 2021-06-28
Standards : FCC Part 15, Subpart C 15.247
Test Method : ANSI C63.10: 2013
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above,
The EUT technically complies with the FCC requirements

Test/Witness Engineer : *Camille Li*

Camille Li

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Ivan Su

Engineer Manager : *Ray Lai*

Ray Lai



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

Contents

CONTENTS	2
1. GENERAL INFORMATION ABOUT EUT	6
1.1 Client Information.....	6
1.2 General Description of EUT (Equipment Under Test)	6
1.3 Block Diagram Showing the Configuration of System Tested.....	8
1.4 Description of Support Units	8
1.5 Description of Test Mode.....	9
1.6 Description of Test Software Setting	10
1.7 Measurement Uncertainty	10
1.8 Test Facility.....	11
2. TEST SUMMARY	12
3. TEST SOFTWARE	12
4. TEST EQUIPMENT	13
5. CONDUCTED EMISSION TEST	14
5.1 Test Standard and Limit.....	14
5.2 Test Setup.....	14
5.3 Test Procedure.....	15
5.4 Deviation From Test Standard.....	15
5.5 EUT Operating Mode	15
5.6 Test Data.....	15
6. RADIATED EMISSION TEST	16
6.1 Test Standard and Limit.....	16
6.2 Test Setup.....	17
6.3 Test Procedure.....	18
6.4 Deviation From Test Standard.....	18
6.4 EUT Operating Condition	18
6.5 Test Data.....	18
7. RESTRICTED BANDS REQUIREMENT	19
7.1 Test Standard and Limit.....	19
7.2 Test Setup.....	19
7.3 Test Procedure.....	20
7.4 Deviation From Test Standard.....	21
7.5 EUT Operating Condition	21
7.6 Test Data.....	21
8. CONDUCTED SPURIOUS EMISSIONS AND BAND EDGES TEST	22
8.1.1 Test Standard.....	22
8.1.2 Test Limit	22
8.7.3. Test Procedures	22
8.7.4. Test Setup Layout	22
8.7.5. EUT Operation during Test.....	23

8.7.6. Test Data	23
9. NUMBER OF HOPPING CHANNEL.....	24
8.1 Test Standard and Limit.....	24
8.2 Test Setup.....	24
8.3 Test Procedure.....	24
8.4 Deviation From Test Standard.....	24
8.5 EUT Operating Condition	24
8.6 Test Data.....	24
10. AVERAGE TIME OF OCCUPANCY.....	25
9.1 Test Standard and Limit.....	25
9.2 Test Setup.....	25
9.3 Test Procedure.....	25
9.4 EUT Operating Condition	25
9.4 Deviation From Test Standard.....	26
9.5 EUT Operating Condition	26
9.6 Test Data.....	26
11. CHANNEL SEPARATION AND BANDWIDTH TEST	27
10.1 Test Standard and Limit	27
10.2 Test Setup.....	27
10.3 Test Procedure.....	27
10.4 Deviation From Test Standard.....	28
10.5 EUT Operating Condition	28
10.6 Test Data.....	28
12. PEAK OUTPUT POWER TEST.....	29
11.1 Test Standard and Limit	29
11.2 Test Setup.....	29
11.3 Test Procedure.....	29
11.4 Deviation From Test Standard.....	29
11.5 EUT Operating Condition	29
11.6 Test Data.....	29
13. ANTENNA REQUIREMENT.....	30
12.1 Standard Requirement.....	30
12.2 Deviation From Test Standard.....	30
12.3 Antenna Connected Construction	30
12.4 Result.....	30
ATTACHMENT A-- CONDUCTED EMISSION TEST DATA	31
ATTACHMENT B-- RADIATED EMISSION TEST DATA	33
ATTACHMENT C-- EMISSIONS IN RESTRICTED BANDS TEST DATA	44
ATTACHMENT D-- CONDUCTED SPURIOUS EMISSIONS AND BAND EDGES TEST	51
ATTACHMENT E-- NUMBER OF HOPPING CHANNEL TEST DATA	66
ATTACHMENT F-- AVERAGE TIME OF OCCUPANCY TEST DATA.....	68
ATTACHMENT G-- CHANNEL SEPARATION AND BANDWIDTH TEST DATA.....	74

ATTACHMENT H-- PEAK OUTPUT POWER TEST DATA..... 83

Revision History

Report No.	Version	Description	Issued Date
TB-FCC180399	Rev.01	Initial issue of report	2021-06-28

1. General Information about EUT

1.1 Client Information

Applicant	:	Navori Inc.
Address	:	1000 rue Sherbrooke st W, Suite 710, Montreal, QC, Canada H3A 3G4
Manufacturer	:	Shenzhen MicoRose Technology Co., Ltd.
Address	:	8B2A, Daqing Building, southeast of the intersection of Shennan Road and Guangshen Expressway, Futian District, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	StiX	
Model(s)	:	3700	
Product Description	:	Operation Frequency:	Bluetooth V4.0(BT): 2402~2480 MHz
		Number of Channel:	Bluetooth: 79 Channels <small>See Note 2</small>
		Max Peak Output Power:	Bluetooth: 5.831dBm (8DPSK)
		Antenna Gain:	2.0dBi RP-SMA Antenna
		Modulation Type:	GFSK $\pi/4$ -DQPSK 8DPSK
Power Supply	:	For Adapter: Input: 100-240V~ Output: 5V $\overline{\text{---}}$, 2.5A	
Software Version	:	android 9.0	
Hardware Version	:	V1	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

- (1) This Test Report is FCC Part 15.247 for Bluetooth, the test procedure follows the FCC KDB 558074 D01 DTS Means Guidance v05.

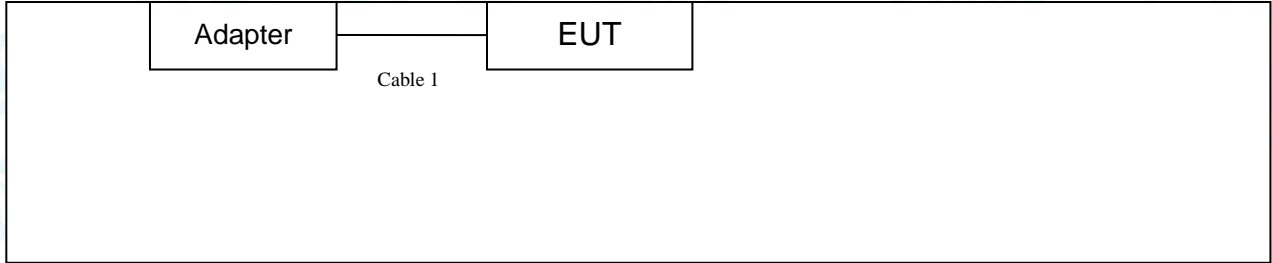
(2) For a more detailed features description, please refer to the manufacturer’s specifications or the User’s Manual.Channel List:

Bluetooth Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

(3) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

Charging + TX Mode



1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used “√”
DELL	U2720QM	----	Dell (China) Co., Ltd	√
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
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1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test	
Final Test Mode	Description
Mode 1	Charging + TX Mode Channel 00
For Radiated Test	
Final Test Mode	Description
Mode 1	TX GFSK Mode Channel 00
Mode 2	TX Mode (GFSK) Channel 00/39/78
Mode 3	TX Mode ($\pi/4$ -DQPSK) Channel 00/39/78
Mode 4	TX Mode (8DPSK) Channel 00/39/78
Mode 5	Hopping Mode (GFSK)
Mode 6	Hopping Mode ($\pi/4$ -DQPSK)
Mode 7	Hopping Mode (8DPSK)
Note : (1)The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab. (2) All test with left and right earphone, and only show the worst case(left earphone)	

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate. We have pretested all the test modes above.
According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:
 TX Mode: GFSK (1 Mbps)
 TX Mode: $\pi/4$ -DQPSK (2 Mbps)
 TX Mode: 8DPSK (3 Mbps)
- (2) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis, X-plane, Y-plane and Z-plane. The worst case was found positioned on X-plane as the normal use. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of Bluetooth mode.

Test Software Version	FCC_assist		
	2402 MHz	2441MHz	2480 MHz
Frequency	2402 MHz	2441MHz	2480 MHz
GFSK	DEF	DEF	DEF
π /4-DQPSK	DEF	DEF	DEF
8DPSK	DEF	DEF	DEF

1.7 Measurement Uncertainty

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

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.50 dB ± 3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01. FCC Accredited Test Site Number: 854351.Designation Number:CN1223

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A.

2. Test Summary

FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 2					
Standard Section		Test Item	Test Sample(s)	Judgment	Remark
FCC	IC				
15.203	RSS-GEN 6.8	Antenna Requirement	TBBJ-20210325-18_01-1#	PASS	N/A
15.207	RSS-GEN 8.8	Conducted Emission	TBBJ-20210325-18_01-2#	PASS	N/A
15.205	RSS-Gen 8.10	Restricted Bands	TBBJ-20210325-18_01-1#	PASS	N/A
15.247(a)(1)	RSS 247 5.1 (b)	Hopping Channel Separation	TBBJ-20210325-18_01-1#	PASS	N/A
15.247(a)(1)	RSS 247 5.1 (d)	Dwell Time	TBBJ-20210325-18_01-1#	PASS	N/A
15.247(b)(1)	RSS 247 5.4 (b)	Peak Output Power	TBBJ-20210325-18_01-1#	PASS	N/A
15.247(a)(1)	RSS 247 5.1 (d)	Number of Hopping Frequency	TBBJ-20210325-18_01-1#	PASS	N/A
15.247(d)	RSS 247 5.5	Conducted Spurious Emissions&Band edge	TBBJ-20210325-18_01-1#	PASS	N/A
15.247(c)& 15.209	RSS 247 5.5	Radiated Spurious Emission	TBBJ-20210325-18_01-1# TBBJ-20210325-18_01-2#	PASS	N/A
15.247(a)	RSS 247 5.1 (a)	99% Occupied Bandwidth & 20dB Bandwidth	TBBJ-20210325-18_01-1#	PASS	N/A

Note: N/A is an abbreviation for Not Applicable.

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
RF Conducted Measurement	MTS-8310	MWRFtest	V2.0.0.0

4. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 06, 2020	Jul. 05, 2021
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 06, 2020	Jul. 05, 2021
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 06, 2020	Jul. 05, 2021
LISN	Rohde & Schwarz	ENV216	101131	Jul. 06, 2020	Jul. 05, 2021
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jul. 06, 2020	Jul. 05, 2021
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Mar.01, 2020	Feb. 28, 2022
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 07, 2020	Jul. 06, 2021
Pre-amplifier	Sonoma	310N	185903	Feb.25, 2021	Feb. 24, 2022
Pre-amplifier	HP	8449B	3008A00849	Feb.25, 2021	Feb. 24, 2022
Pre-amplifier	SKET	LNPA_1840G-50	SK201904032	Feb.25, 2021	Feb. 24, 2022
Cable	HUBER+SUHNER	100	SUCOFLEX	Feb.25, 2021	Feb. 24, 2022
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	ESPI	100010/007	Jul. 06, 2020	Jul. 05, 2021
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 11, 2020	Sep. 10, 2021
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 11, 2020	Sep. 10, 2021
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 11, 2020	Sep. 10, 2021
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO26	Sep. 11, 2020	Sep. 10, 2021
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO29	Sep. 11, 2020	Sep. 10, 2021
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO31	Sep. 11, 2020	Sep. 10, 2021
	DARE!! Instruments	RadiPowerRPR3006W	17100015SNO33	Sep. 11, 2020	Sep. 10, 2021

5. Conducted Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.207

5.1.2 Test Limit

Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage (dB μ V)	
	Quasi-peak Level	Average Level
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *
500kHz~5MHz	56	46
5MHz~30MHz	60	50

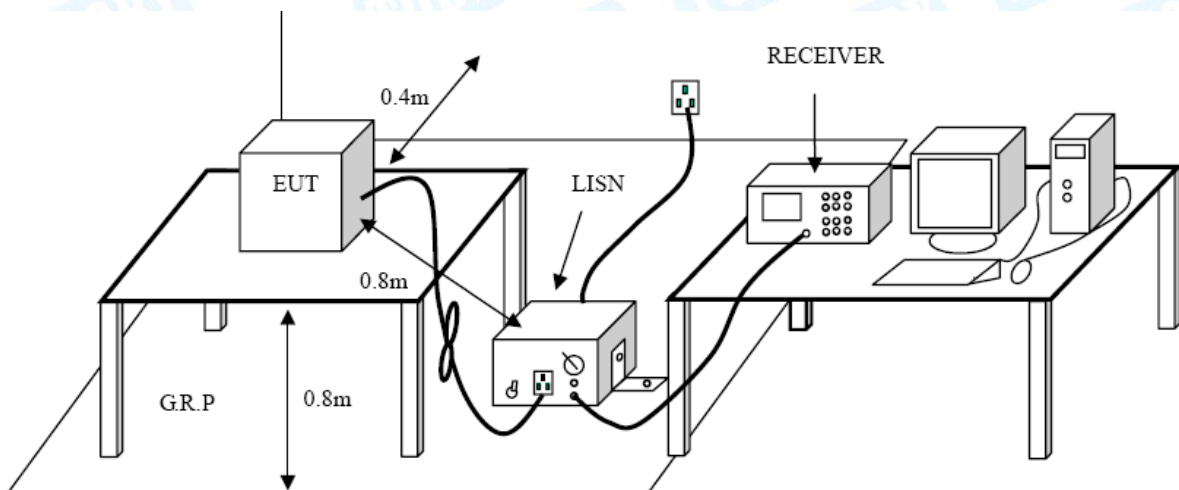
Notes:

(1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

(3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.2 Test Setup



5.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 Test Data

Please refer to the Attachment A.

6. Radiated Emission Test

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.209

6.1.2 Test Limit

Radiated Emission Limit (9 kHz~1000MHz)

Frequency (MHz)	Field Strength (microvolt/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

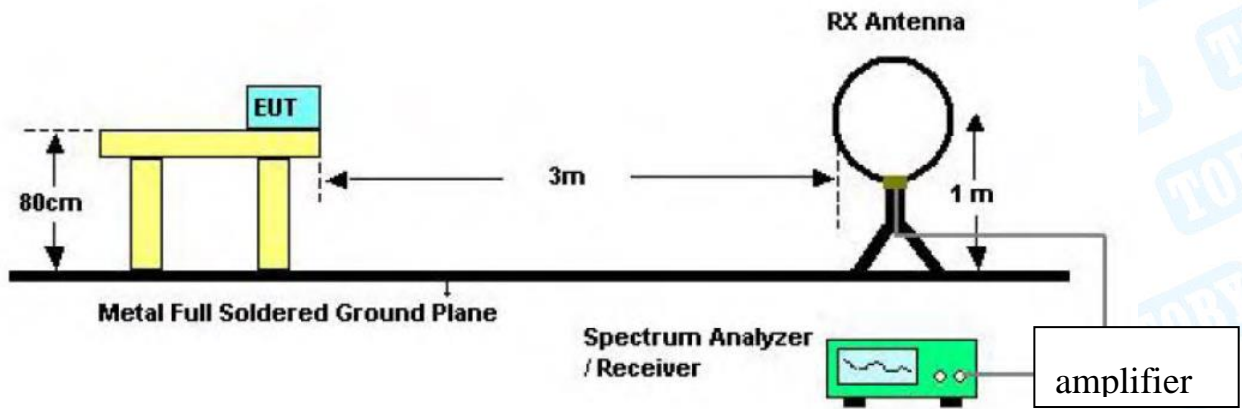
Radiated Emission Limit (Above 1000MHz)

Frequency (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
Above 1000	74	54

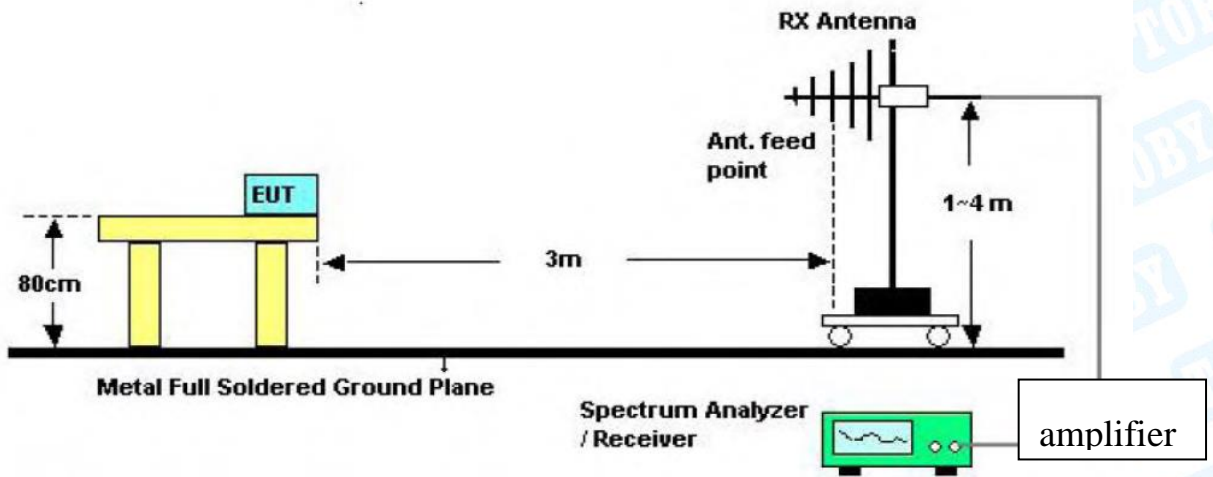
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m)

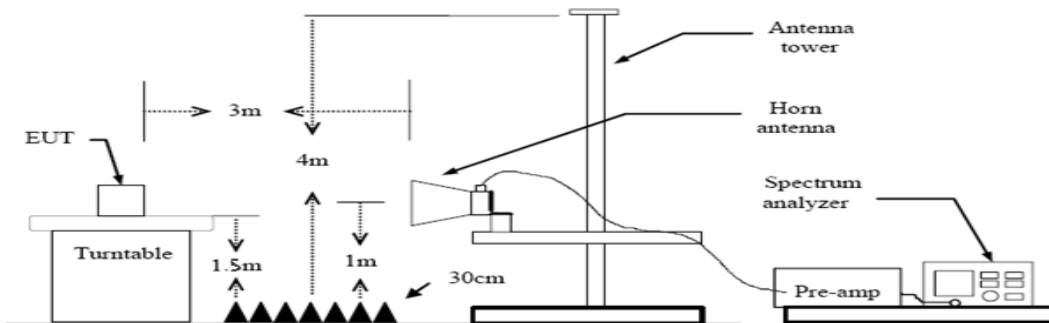
6.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

6.4 Deviation From Test Standard

No deviation

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power in TX mode.

6.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment B.

7. Restricted Bands Requirement

7.1 Test Standard and Limit

7.1.1 Test Standard

FCC Part 15.209

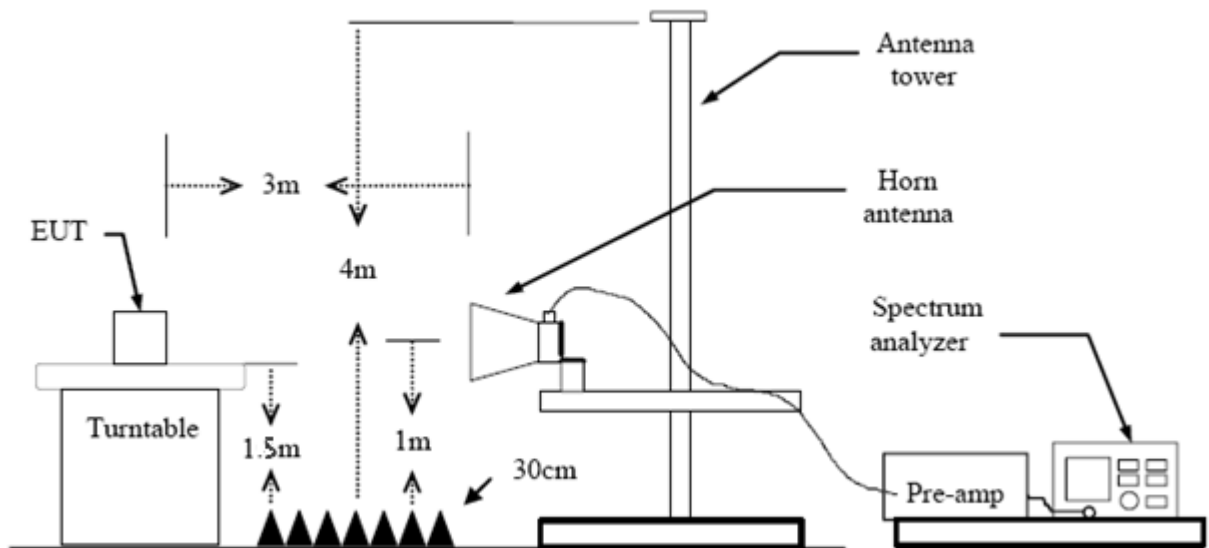
FCC Part 15.205

7.1.2 Test Limit

Restricted Frequency Band (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
2310 ~2390	74	54
2483.5 ~2500	74	54

Note: All restriction bands have been tested, only the worst case is reported.

7.2 Test Setup



7.3 Test Procedure

---Radiated measurement

- Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

- The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.

- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

- The Peak Value and average value both need to comply with applicable limit above 1 GHz.

- Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

- For the actual test configuration, please see the test setup photo.

--- Conducted measurement

a) Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 11.12.2.3 through 11.12.2.5 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP (see 11.12.2.6 for guidance on determining the applicable antenna gain).

c) Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies ≤ 30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies > 1000 MHz).

d) For MIMO devices, measure the power of each chain and sum the EIRP of all chains in linear terms (i.e., watts and mW).

e) Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log d + 104.8$$

where

E is the electric field strength in dBuV/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

f) Compare the resultant electric field strength level with the applicable regulatory limit.

g) Perform the radiated spurious emission test.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

7.6 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

All restriction bands have been tested, only the worst case is reported.

Please refer to the Attachment C.

8. Conducted Spurious Emissions and Band Edges Test

8.1.1 Test Standard

According to RSS 247§ 5.5: 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. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

8.1.2 Test Limit

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

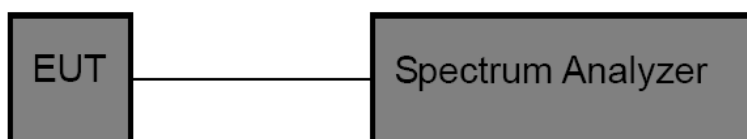
Spectrum Parameter	Setting
Detector	Peak
Attenuation	Auto
RB / VB (Emission in restricted band)	100KHz/300KHz
RB / VB (Emission in non-restricted band)	100KHz/300KHz

8.7.3. Test Procedures

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz

The spectrum from 9 kHz to 26.5GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

8.7.4. Test Setup Layout



8.7.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

8.7.6. Test Data

Please refer to the Attachment D.

Remark:

- 1). Test results including cable loss;
- 2). “---“means that the fundamental frequency not for 15.209 limits requirement.
- 3). Not recorded emission from 9 KHz to 30 MHz as emission level at least 20dBc lower than emission limit.

9. Number of Hopping Channel

8.1 Test Standard and Limit

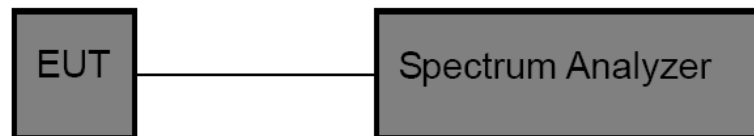
8.1.1 Test Standard

FCC Part 15.247 (a)(1)

8.1.2 Test Limit

Section	Test Item	Limit
15.247	Number of Hopping Channel	>15

8.2 Test Setup



8.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=100 KHz, VBW=100 KHz, Sweep time= Auto.

8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Condition

The EUT was set to the Hopping Mode by the Customer.

8.6 Test Data

Please refer to the Attachment E.

10. Average Time of Occupancy

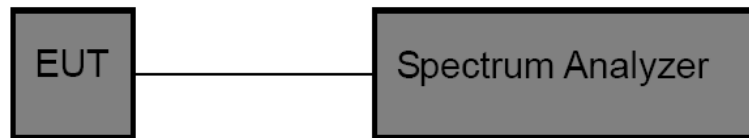
9.1 Test Standard and Limit

9.1.1 Test Standard
FCC Part 15.247 (a)(1)

9.1.2 Test Limit

Section	Test Item	Limit
15.247(a)(1)	Average Time of Occupancy	0.4 sec

9.2 Test Setup



9.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=1MHz, VBW=1MHz.
- (3) Use video trigger with the trigger level set to enable triggering only on full pulses.
- (4) Sweep Time is more than once pulse time.
- (5) Set the centre frequency on any frequency would be measure and set the frequency span to zero.
- (6) Measure the maximum time duration of one single pulse.
- (7) Set the EUT for packet transmitting.
- (8) Measure the maximum time duration of one single pulse.

9.4 EUT Operating Condition

The average time of occupancy on any channel within the Period can be calculated with formulas:

$$\{Total\ of\ Dwell\} = \{Pulse\ Time\} * (1600 / X) / \{Number\ of\ Hopping\ Frequency\} * \{Period\}$$

$$\{Period\} = 0.4s * \{Number\ of\ Hopping\ Frequency\}$$

Note: X=2 or 4 or 6 (1DH1=2, 1DH3=4, 1DH5=6. 2DH1=2, 2DH3=4, 2DH5=6. 3DH1=2, 3DH3=4, 3DH5=6)

The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

9.4 Deviation From Test Standard

No deviation

9.5 EUT Operating Condition

The EUT was set to the Hopping Mode by the Customer.

9.6 Test Data

Please refer to the Attachment F.

11. Channel Separation and Bandwidth Test

10.1 Test Standard and Limit

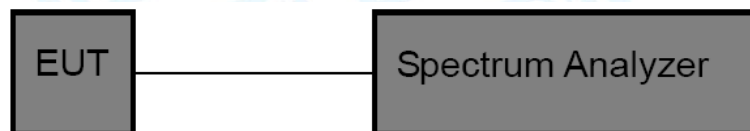
10.1.1 Test Standard

FCC Part 15.247

10.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
Bandwidth	≤ 1 MHz (20dB bandwidth)	2400~2483.5
Channel Separation	>25 KHz or $>$ two-thirds of the 20 dB bandwidth Which is greater	2400~2483.5

10.2 Test Setup



10.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
Channel Separation: RBW=100 kHz, VBW=100 kHz.
Bandwidth: RBW=30 kHz, VBW=100 kHz.
- (3) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (4) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:30 kHz, and Video Bandwidth:100 kHz. Sweep Time set auto.

10.4 Deviation From Test Standard

No deviation

10.5 EUT Operating Condition

The EUT was set to the Hopping Mode for Channel Separation Test and continuously transmitting for the Bandwidth Test.

10.6 Test Data

Please refer to the Attachment G.

12. Peak Output Power Test

11.1 Test Standard and Limit

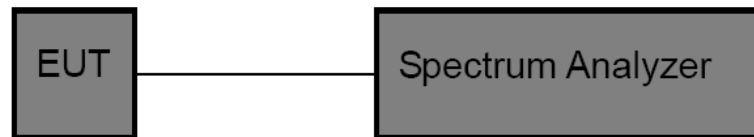
11.1.1 Test Standard

FCC Part 15.247 (b) (1)

11.1.2 Test Limit

Test Item	Limit	Frequency Range(MHz)
Peak Output Power	Hopping Channels>75 Power<1W(30dBm) Other <125 mW(21dBm)	2400~2483.5

11.2 Test Setup



11.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
Peak Detector: RBW=1 MHz, VBW=3 MHz for bandwidth less than 1MHz.
RBW=3 MHz, VBW ≥ RBW for bandwidth more than 1MHz.

11.4 Deviation From Test Standard

No deviation

11.5 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

11.6 Test Data

Please refer to the Attachment H.

13. Antenna Requirement

12.1 Standard Requirement

12.1.1 Standard

FCC Part 15.203

12.1.2 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 shall be considered sufficient to comply with the provisions of this Section. 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.

12.2 Deviation From Test Standard

No deviation

12.3 Antenna Connected Construction

The gains of the antenna used for transmitting is 0.5 dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

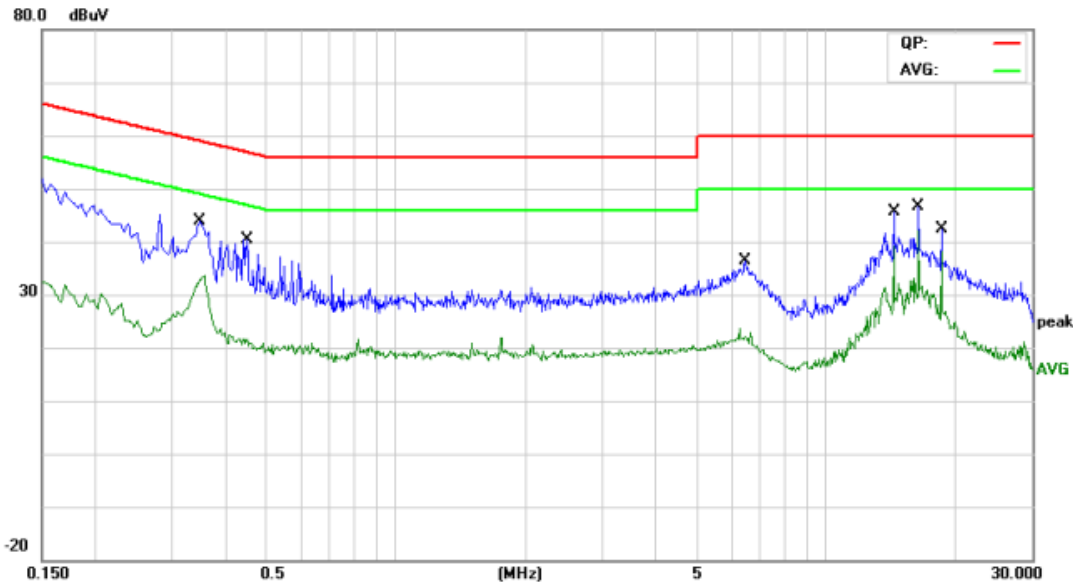
12.4 Result

The EUT antenna is a RP-SMA Antenna. It complies with the standard requirement.

Antenna Type
<input checked="" type="checkbox"/> Permanent attached antenna
<input type="checkbox"/> Unique connector antenna
<input type="checkbox"/> Professional installation antenna

Attachment A-- Conducted Emission Test Data

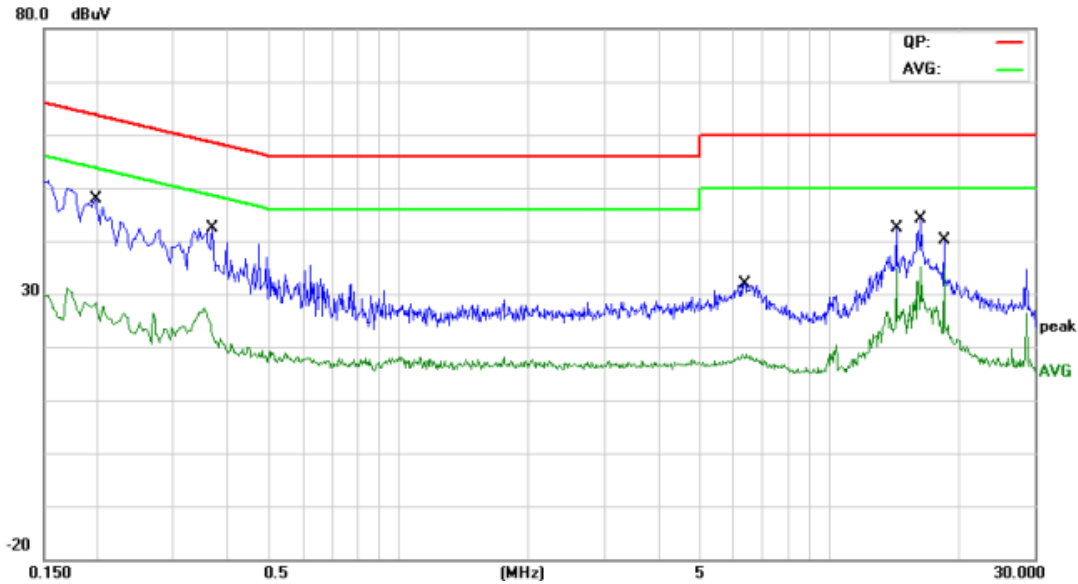
Temperature:	24.6°C	Relative Humidity:	42%
Test Voltage:	AC 120V/60 Hz		
Terminal:	Line		
Test Mode:	Mode 1		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3500	30.51	9.70	40.21	58.96	-18.75	QP
2		0.3500	23.31	9.70	33.01	48.96	-15.95	AVG
3		0.4500	18.57	9.70	28.27	56.87	-28.60	QP
4		0.4500	10.63	9.70	20.33	46.87	-26.54	AVG
5		6.4540	19.49	9.83	29.32	60.00	-30.68	QP
6		6.4540	11.37	9.83	21.20	50.00	-28.80	AVG
7		14.3380	33.79	9.97	43.76	60.00	-16.24	QP
8		14.3380	28.62	9.97	38.59	50.00	-11.41	AVG
9		16.3860	34.45	10.00	44.45	60.00	-15.55	QP
10	*	16.3860	31.76	10.00	41.76	50.00	-8.24	AVG
11		18.4340	30.77	10.00	40.77	60.00	-19.23	QP
12		18.4340	28.09	10.00	38.09	50.00	-11.91	AVG

- Remark:
1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
 2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)

Temperature:	24.6°C	Relative Humidity:	42%
Test Voltage:	AC 120V/60 Hz		
Terminal:	Neutral		
Test Mode:	Mode 1		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1980	32.60	9.80	42.40	63.69	-21.29	QP
2		0.1980	15.09	9.80	24.89	53.69	-28.80	AVG
3		0.3700	21.97	9.80	31.77	58.50	-26.73	QP
4		0.3700	11.98	9.80	21.78	48.50	-26.72	AVG
5		6.3659	14.58	9.87	24.45	60.00	-35.55	QP
6		6.3659	7.65	9.87	17.52	50.00	-32.48	AVG
7		14.3380	28.07	9.99	38.06	60.00	-21.94	QP
8		14.3380	22.21	9.99	32.20	50.00	-17.80	AVG
9		16.3819	34.14	10.00	44.14	60.00	-15.86	QP
10	*	16.3819	30.15	10.00	40.15	50.00	-9.85	AVG
11		18.4340	28.22	10.00	38.22	60.00	-21.78	QP
12		18.4340	25.28	10.00	35.28	50.00	-14.72	AVG

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)

Attachment B-- Radiated Emission Test Data

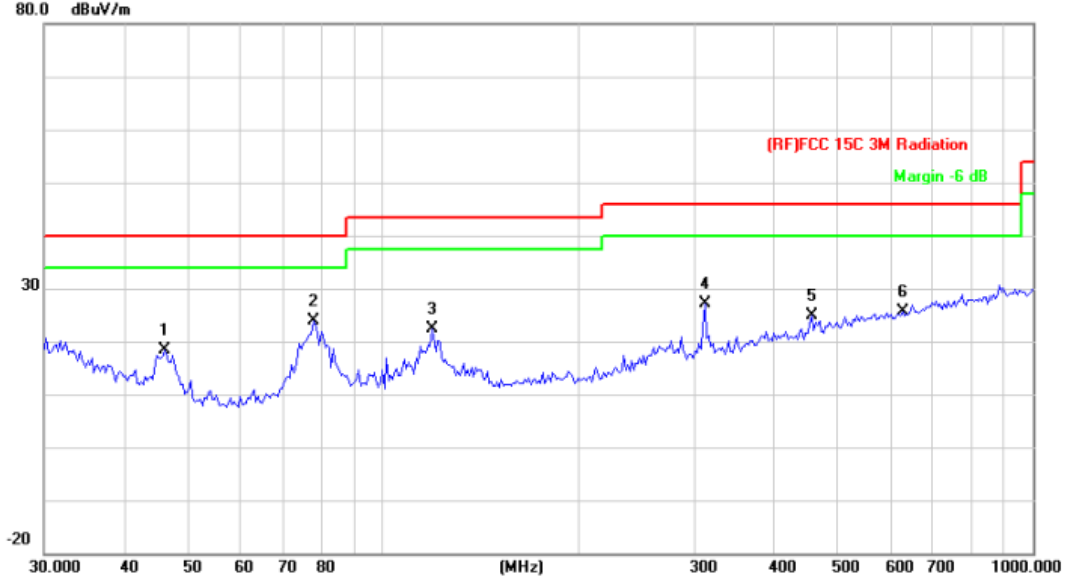
9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz~1GHz

Temperature:	23.4°C	Relative Humidity:	43%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	Mode 1 2402MHz		
Remark:	Only worse case is reported		



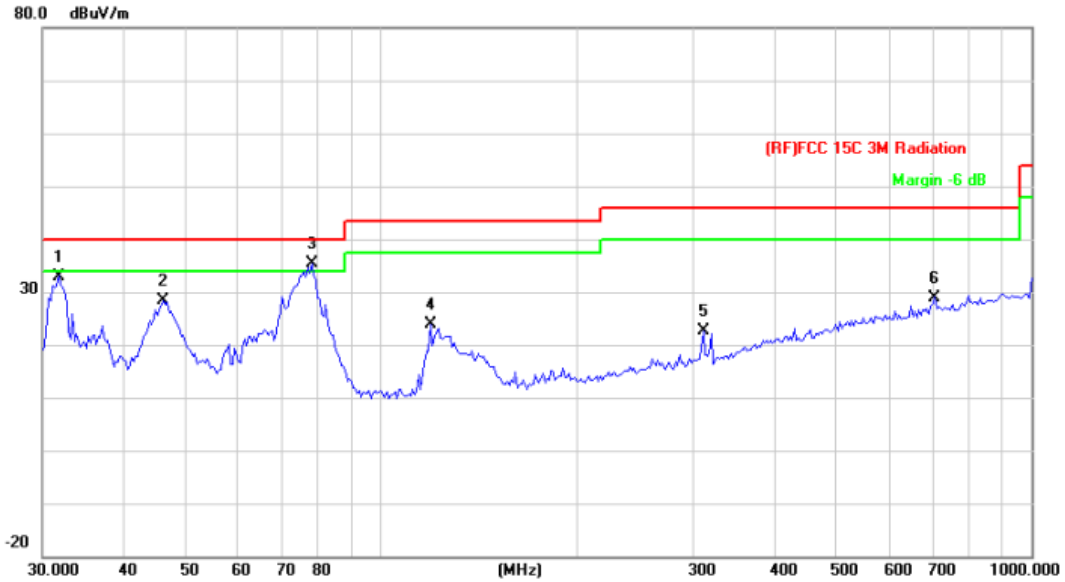
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		46.0164	40.17	-21.76	18.41	40.00	-21.59	peak
2	*	77.8654	46.42	-22.66	23.76	40.00	-16.24	peak
3		118.6014	44.45	-22.18	22.27	43.50	-21.23	peak
4		312.1794	43.08	-15.88	27.20	46.00	-18.80	peak
5		455.9058	36.62	-11.77	24.85	46.00	-21.15	peak
6		629.4772	33.82	-8.11	25.71	46.00	-20.29	peak

*:Maximum data x:Over limit !:over margin

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. QuasiPeak (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
- 3. Margin (dB) = QuasiPeak (dBµV/m)-Limit QPK(dBµV/m)

Temperature:	23.4°C	Relative Humidity:	43%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	Mode 1 2402MHz		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		31.7313	47.25	-14.25	33.00	40.00	-7.00	peak
2		46.0164	50.02	-21.76	28.26	40.00	-11.74	peak
3	*	77.8654	58.14	-22.66	35.48	40.00	-4.52	peak
4		118.6014	46.06	-22.18	23.88	43.50	-19.62	peak
5		312.1794	38.43	-15.88	22.55	46.00	-23.45	peak
6		709.1823	35.73	-6.73	29.00	46.00	-17.00	peak

*:Maximum data x:Over limit !:over margin

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV)
3. Margin (dB) = QuasiPeak (dBµV/m)-Limit QPK(dBµV/m)

Above 1GHz(Only worse case is reported)

Temperature:	23.9°C	Relative Humidity:	44%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX GFSK Mode 2402MHz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4803.624	28.38	13.01	41.39	54.00	-12.61	AVG
2		4803.968	42.22	13.01	55.23	74.00	-18.77	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6°C	Relative Humidity:	45%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX GFSK Mode 2402MHz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4803.720	28.17	13.01	41.18	54.00	-12.82	AVG
2		4804.014	43.49	13.01	56.50	74.00	-17.50	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.9°C	Relative Humidity:	44%																																				
Test Voltage:	AC 120V/60 Hz																																						
Ant. Pol.	Horizontal																																						
Test Mode:	TX GFSK Mode 2441MHz																																						
<table border="1"> <thead> <tr> <th>No.</th> <th>Mk.</th> <th>Freq.</th> <th>Reading Level</th> <th>Correct Factor</th> <th>Measurement</th> <th>Limit</th> <th>Over</th> <th></th> </tr> <tr> <th></th> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB/m</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>*</td> <td>4882.204</td> <td>28.57</td> <td>13.59</td> <td>42.16</td> <td>54.00</td> <td>-11.84</td> <td>AVG</td> </tr> <tr> <td>2</td> <td></td> <td>4882.446</td> <td>42.75</td> <td>13.59</td> <td>56.34</td> <td>74.00</td> <td>-17.66</td> <td>peak</td> </tr> </tbody> </table>				No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over				MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	1	*	4882.204	28.57	13.59	42.16	54.00	-11.84	AVG	2		4882.446	42.75	13.59	56.34	74.00	-17.66	peak
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over																																
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector																															
1	*	4882.204	28.57	13.59	42.16	54.00	-11.84	AVG																															
2		4882.446	42.75	13.59	56.34	74.00	-17.66	peak																															
Remark: 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m) 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit.																																							

Temperature:	23.9°C	Relative Humidity:	44%																																				
Test Voltage:	AC 120V/60 Hz																																						
Ant. Pol.	Vertical																																						
Test Mode:	TX GFSK Mode 2441MHz																																						
<table border="1"> <thead> <tr> <th>No.</th> <th>Mk.</th> <th>Freq.</th> <th>Reading Level</th> <th>Correct Factor</th> <th>Measurement</th> <th>Limit</th> <th>Over</th> <th></th> </tr> <tr> <th></th> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB/m</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th>Detector</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>4881.868</td> <td>42.38</td> <td>13.59</td> <td>55.97</td> <td>74.00</td> <td>-18.03</td> <td>peak</td> </tr> <tr> <td>2</td> <td>*</td> <td>4882.378</td> <td>28.74</td> <td>13.59</td> <td>42.33</td> <td>54.00</td> <td>-11.67</td> <td>AVG</td> </tr> </tbody> </table>				No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over				MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	1		4881.868	42.38	13.59	55.97	74.00	-18.03	peak	2	*	4882.378	28.74	13.59	42.33	54.00	-11.67	AVG
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over																																
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector																															
1		4881.868	42.38	13.59	55.97	74.00	-18.03	peak																															
2	*	4882.378	28.74	13.59	42.33	54.00	-11.67	AVG																															
Remark: 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m) 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit.																																							

Temperature:	23.9°C	Relative Humidity:	44%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX GFSK Mode 2480MHz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4959.852	28.57	14.15	42.72	54.00	-11.28	AVG
2		4960.108	41.80	14.15	55.95	74.00	-18.05	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.9°C	Relative Humidity:	44%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX GFSK Mode 2480MHz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	4960.098	28.75	14.15	42.90	54.00	-11.10	AVG
2		4960.230	42.45	14.15	56.60	74.00	-17.40	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.9°C	Relative Humidity:	44%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX π /4-DQPSK Mode 2402MHz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4804.078	28.24	13.01	41.25	54.00	-12.75	AVG
2		4804.118	42.28	13.02	55.30	74.00	-18.70	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dB μ V/m)= Corr. (dB/m)+ Read Level (dB μ V)
3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.9°C	Relative Humidity:	44%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX π /4-DQPSK Mode 2402MHz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4804.228	42.74	13.02	55.76	74.00	-18.24	peak
2	*	4804.320	28.03	13.02	41.05	54.00	-12.95	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dB μ V/m)= Corr. (dB/m)+ Read Level (dB μ V)
3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.9°C	Relative Humidity:	44%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX π /4-DQPSK Mode 2441MHz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4881.670	42.16	13.59	55.75	74.00	-18.25	peak
2	*	4881.908	28.57	13.59	42.16	54.00	-11.84	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dB μ V/m)= Corr. (dB/m)+ Read Level (dB μ V)
3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.0°C	Relative Humidity:	44%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX π /4-DQPSK Mode 2441MHz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4882.150	28.67	13.59	42.26	54.00	-11.74	AVG
2		4882.372	42.38	13.59	55.97	74.00	-18.03	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dB μ V/m)= Corr. (dB/m)+ Read Level (dB μ V)
3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m)
4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
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Temperature:	23.9°C	Relative Humidity:	44%																																				
Test Voltage:	AC 120V/60 Hz																																						
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Test Mode:	TX π /4-DQPSK Mode 2480MHz																																						
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over																																
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector																															
1	*	4960.174	28.58	14.15	42.73	54.00	-11.27	AVG																															
2		4960.422	41.62	14.16	55.78	74.00	-18.22	peak																															
Remark: 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dB μ V/m)= Corr. (dB/m)+ Read Level (dB μ V) 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m) 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit.																																							

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over																																
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector																															
1		4959.774	42.42	14.15	56.57	74.00	-17.43	peak																															
2	*	4959.986	28.67	14.15	42.82	54.00	-11.18	AVG																															
Remark: 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dB μ V/m)= Corr. (dB/m)+ Read Level (dB μ V) 3. Margin (dB) = Peak/AVG (dB μ V/m)-Limit PK/AVG(dB μ V/m) 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit.																																							

Temperature:	23.9°C	Relative Humidity:	44%																																				
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over																																
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector																															
1	*	4803.816	28.00	13.01	41.01	54.00	-12.99	AVG																															
2		4803.940	42.35	13.01	55.36	74.00	-18.64	peak																															
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBµV/m)= Corr. (dB/m)+ Read Level (dBµV) 3. Margin (dB) = Peak/AVG (dBµV/m)-Limit PK/AVG(dBµV/m) 4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 																																							

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over																																
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector																															
1		4803.762	41.78	13.01	54.79	74.00	-19.21	peak																															
2	*	4804.154	28.23	13.02	41.25	54.00	-12.75	AVG																															
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Temperature:	23.9°C	Relative Humidity:	44%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX 8DPSK Mode 2441MHz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		4881.786	42.57	13.59	56.16	74.00	-17.84	peak
2	*	4881.856	28.54	13.59	42.13	54.00	-11.87	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
4. The tests evaluated 1-26.5GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.9°C	Relative Humidity:	44%
Test Voltage:	AC 120V/60 Hz		
Ant. Pol.	Vertical		
Test Mode:	TX 8DPSK Mode 2441MHz		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	*	4882.344	28.47	13.59	42.06	54.00	-11.94	AVG
2		4882.430	42.44	13.59	56.03	74.00	-17.97	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																															
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB																																
1	*	4960.126	28.38	14.15	42.53	54.00	-11.47	AVG																															
2		4960.206	42.93	14.15	57.08	74.00	-16.92	peak																															
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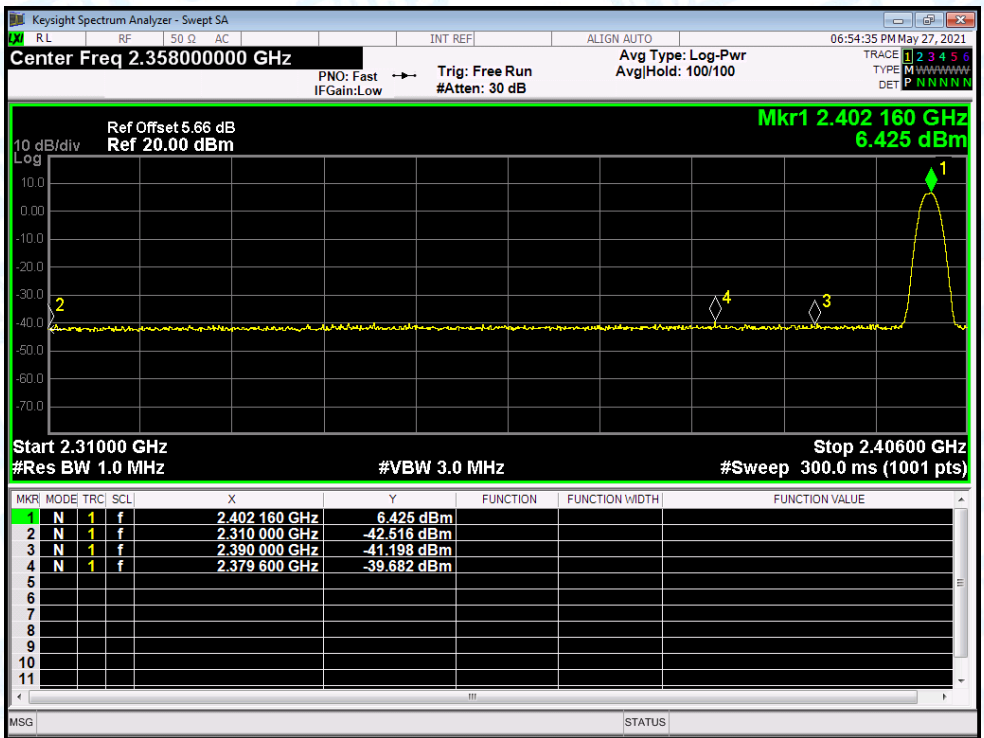
Temperature:	23.9°C	Relative Humidity:	44%																																				
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Test Mode:	TX 8DPSK Mode 2480MHz																																						
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																															
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB																																
1		4959.670	42.57	14.15	56.72	74.00	-17.28	peak																															
2	*	4959.820	28.49	14.15	42.64	54.00	-11.36	AVG																															
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Attachment C-- Emissions in Restricted Bands Test Data

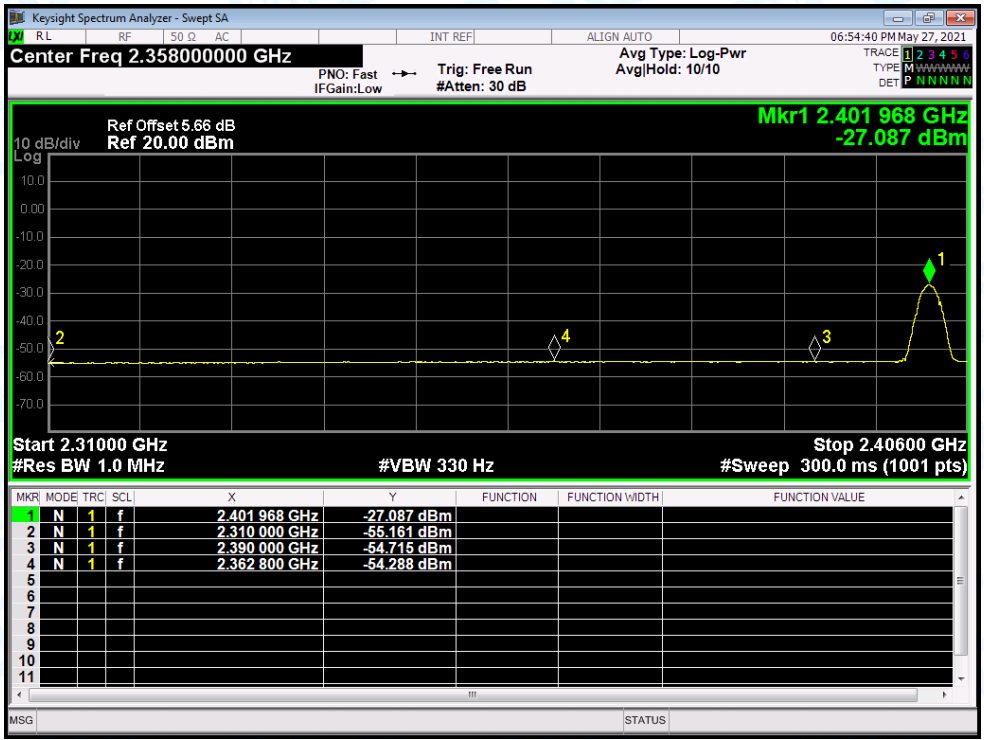
Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
GFSK	2402	Ant1	No-Hopping	2310	-41.76	2	55.5	Peak	74	Pass
	2402	Ant1	No-Hopping	2310	-55.16	2	42.1	Average	54	Pass
	2402	Ant1	No-Hopping	2379.6	-39.68	2	57.58	Peak	74	Pass
	2402	Ant1	No-Hopping	2362.8	-54.28	2	42.98	Average	54	Pass
	2402	Ant1	No-Hopping	2390	-41.87	2	55.39	Peak	74	Pass
	2402	Ant1	No-Hopping	2390	-54.65	2	42.61	Average	54	Pass
	2480	Ant1	No-Hopping	2483.5	-41.15	2	56.11	Peak	74	Pass
	2480	Ant1	No-Hopping	2483.5	-54.4	2	42.86	Average	54	Pass
	2480	Ant1	No-Hopping	2498.056	-39.37	2	57.89	Peak	74	Pass
	2480	Ant1	No-Hopping	2490.664	-54.21	2	43.05	Average	54	Pass
	2480	Ant1	No-Hopping	2500	-41.49	2	55.77	Peak	74	Pass
	2480	Ant1	No-Hopping	2500	-54.48	2	42.78	Average	54	Pass
	2402	Ant1	No-Hopping	2310	-42.49	2	54.77	Peak	74	Pass
	2402	Ant1	No-Hopping	2310	-55.2	2	42.06	Average	54	Pass
	2402	Ant1	No-Hopping	2376.624	-40.43	2	56.83	Peak	74	Pass
	2402	Ant1	No-Hopping	2348.208	-54.5	2	42.76	Average	54	Pass
	2402	Ant1	No-Hopping	2390	-41.86	2	55.4	Peak	74	Pass
	2402	Ant1	No-Hopping	2390	-54.81	2	42.45	Average	54	Pass
	2480	Ant1	No-Hopping	2483.5	-40.78	2	56.48	Peak	74	Pass
	2480	Ant1	No-Hopping	2483.5	-54.49	2	42.77	Average	54	Pass
	2480	Ant1	No-Hopping	2499.28	-39.44	2	57.82	Peak	74	Pass
	2480	Ant1	No-Hopping	2490.424	-54.36	2	42.9	Average	54	Pass
	2480	Ant1	No-Hopping	2500	-41.51	2	55.75	Peak	74	Pass
	2480	Ant1	No-Hopping	2500	-54.61	2	42.65	Average	54	Pass
	2402	Ant1	No-Hopping	2310	-41.74	2	55.52	Peak	74	Pass
	2402	Ant1	No-Hopping	2310	-55.27	2	41.99	Average	54	Pass
	2402	Ant1	No-Hopping	2355.408	-40.25	2	57.01	Peak	74	Pass
	2402	Ant1	No-Hopping	2362.32	-54.38	2	42.88	Average	54	Pass
	2402	Ant1	No-Hopping	2390	-42.78	2	54.48	Peak	74	Pass
	2402	Ant1	No-Hopping	2390	-54.67	2	42.59	Average	54	Pass
	2480	Ant1	No-Hopping	2483.5	-41.6	2	55.66	Peak	74	Pass
	2480	Ant1	No-Hopping	2483.5	-54.52	2	42.74	Average	54	Pass
	2480	Ant1	No-Hopping	2495.896	-38.82	2	58.44	Peak	74	Pass
	2480	Ant1	No-Hopping	2497.408	-54.32	2	42.94	Average	54	Pass
	2480	Ant1	No-Hopping	2500	-41.22	2	56.04	Peak	74	Pass
	2480	Ant1	No-Hopping	2500	-54.62	2	42.64	Average	54	Pass

Test Graphs

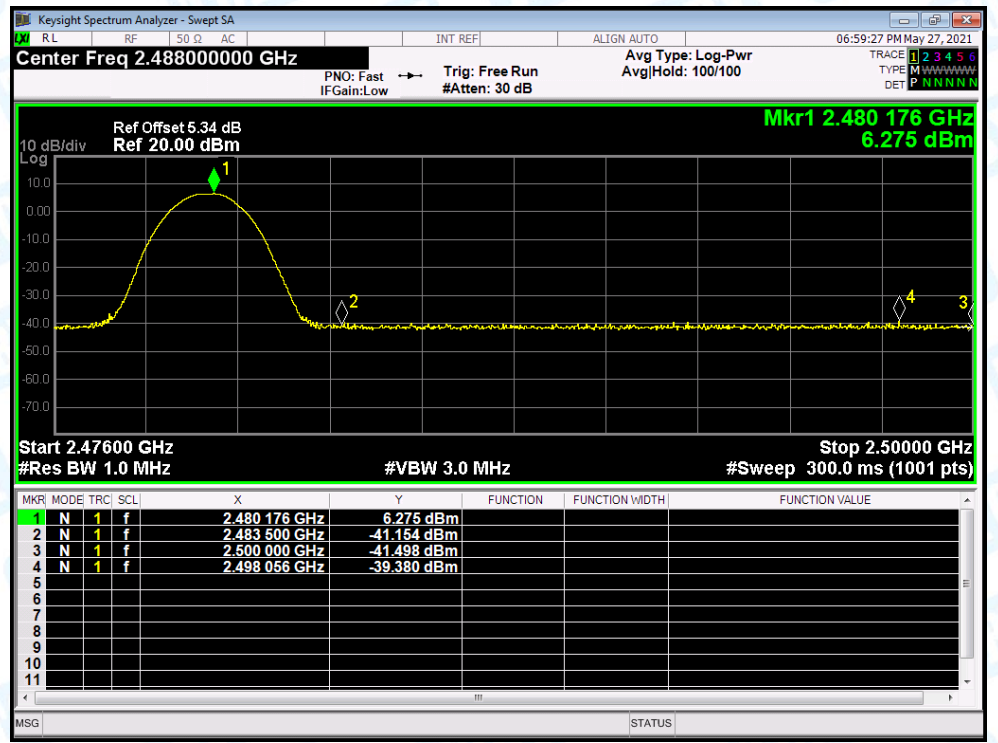
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Peak



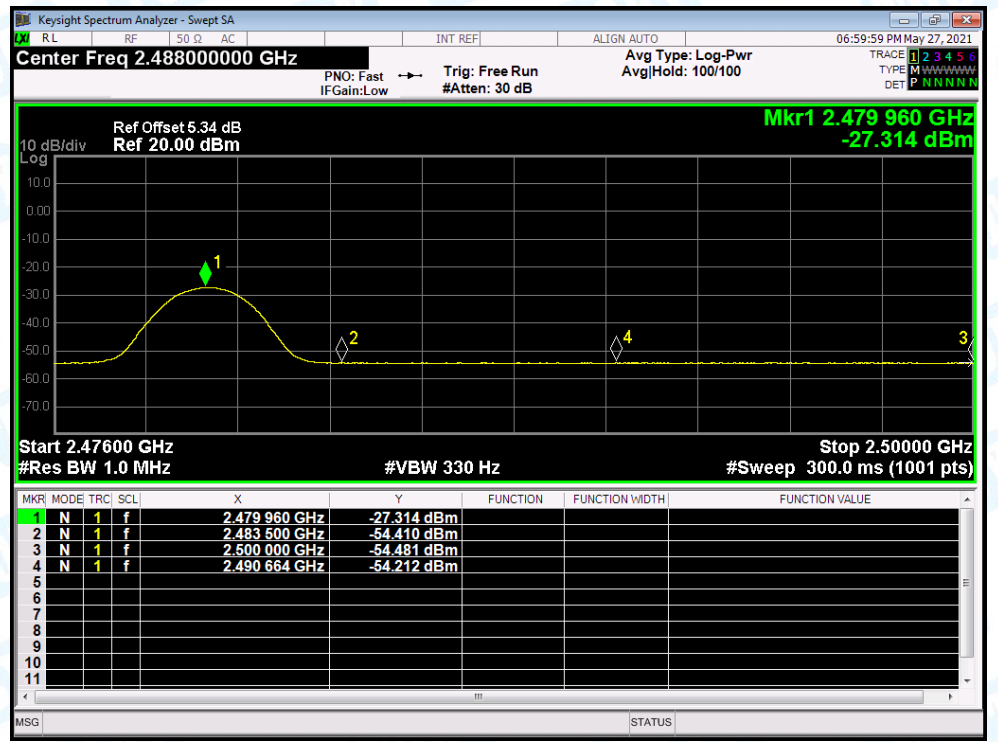
Restrict Band NVNT 1-DH1 2402MHz Ant1 No-Hopping Average



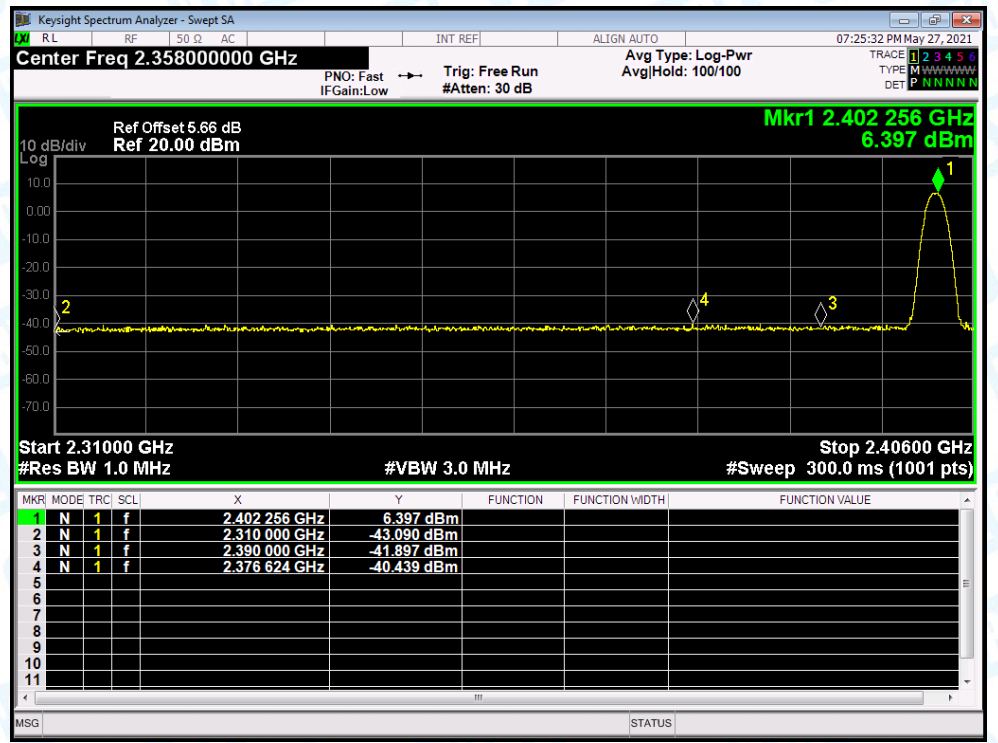
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Peak



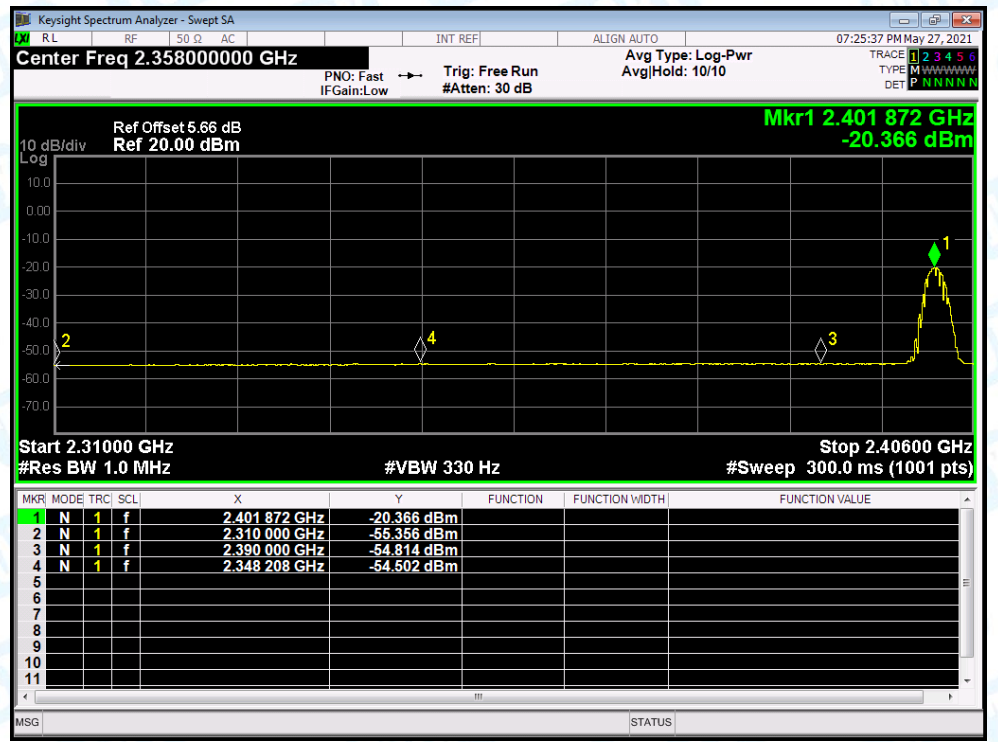
Restrict Band NVNT 1-DH1 2480MHz Ant1 No-Hopping Average



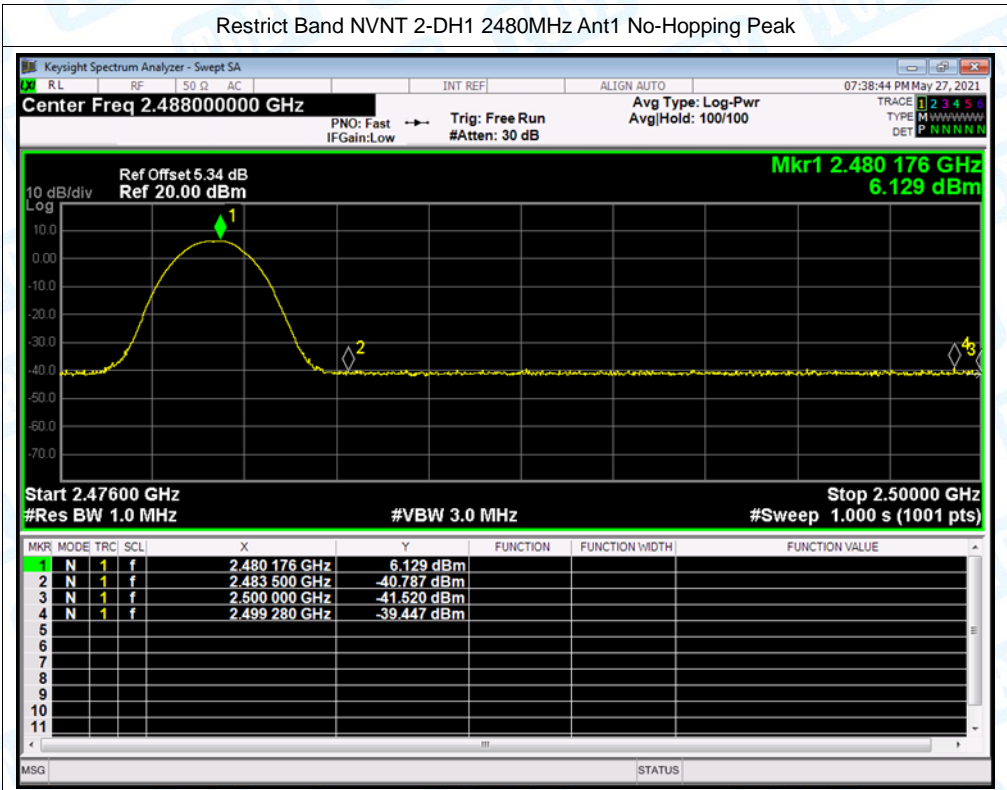
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Peak



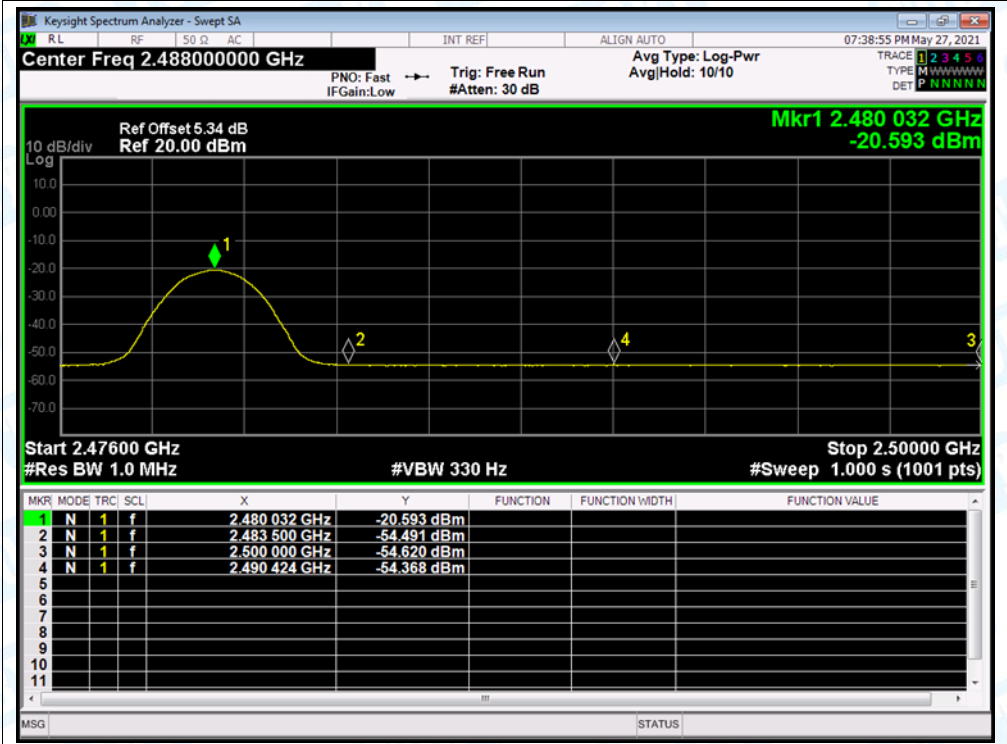
Restrict Band NVNT 2-DH1 2402MHz Ant1 No-Hopping Average



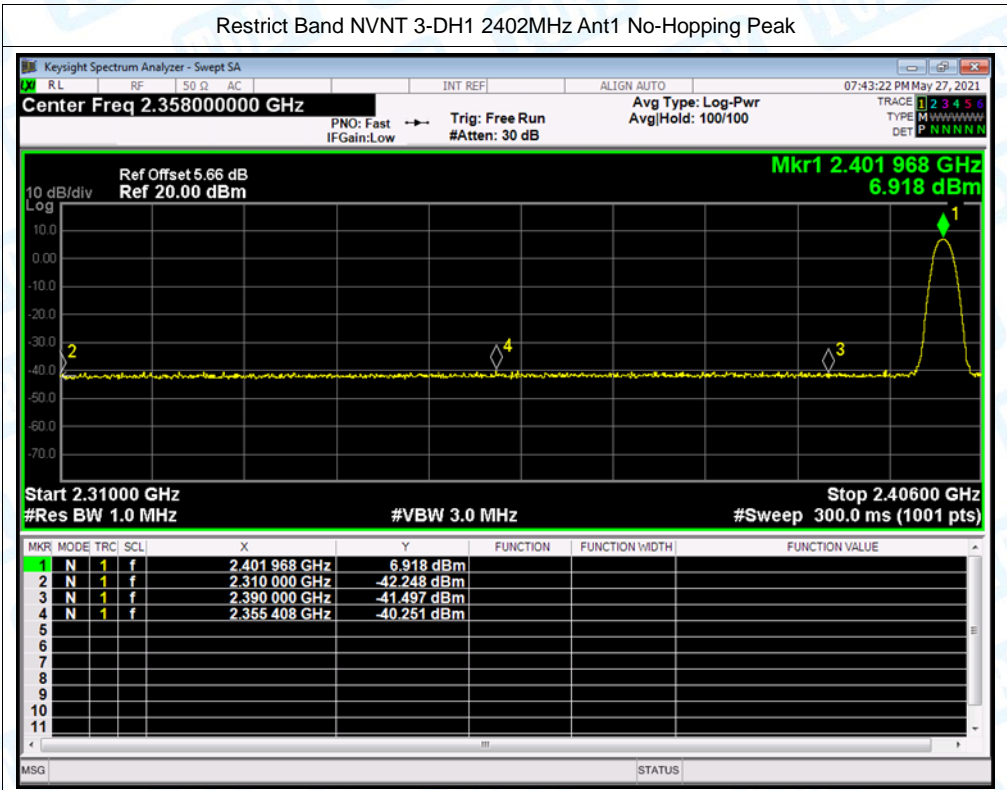
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Peak



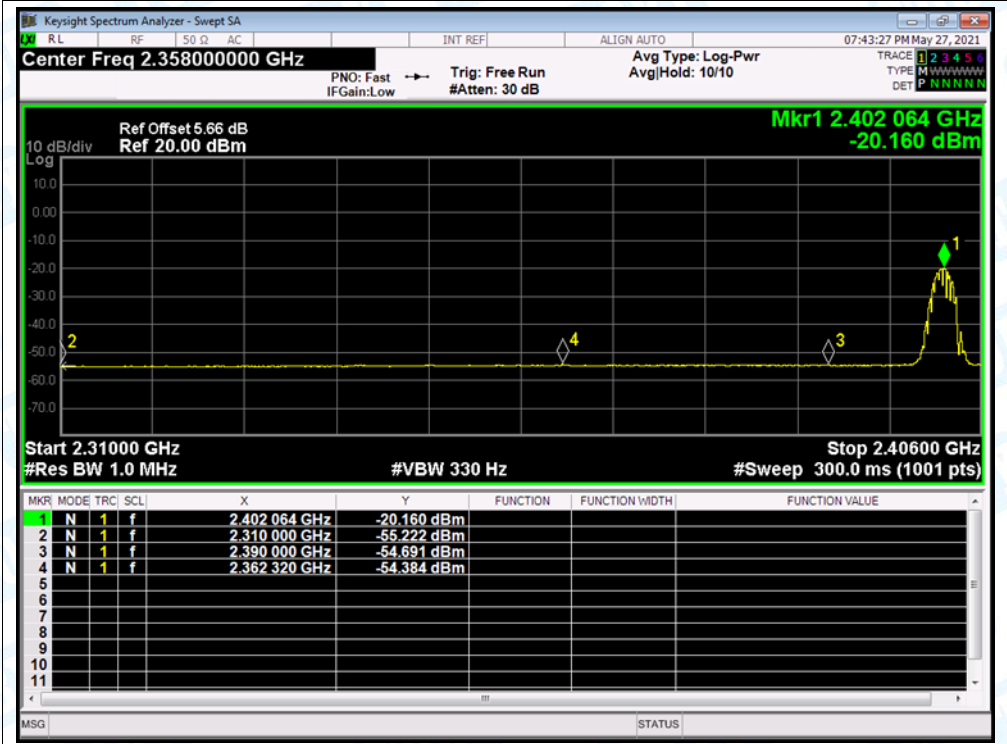
Restrict Band NVNT 2-DH1 2480MHz Ant1 No-Hopping Average



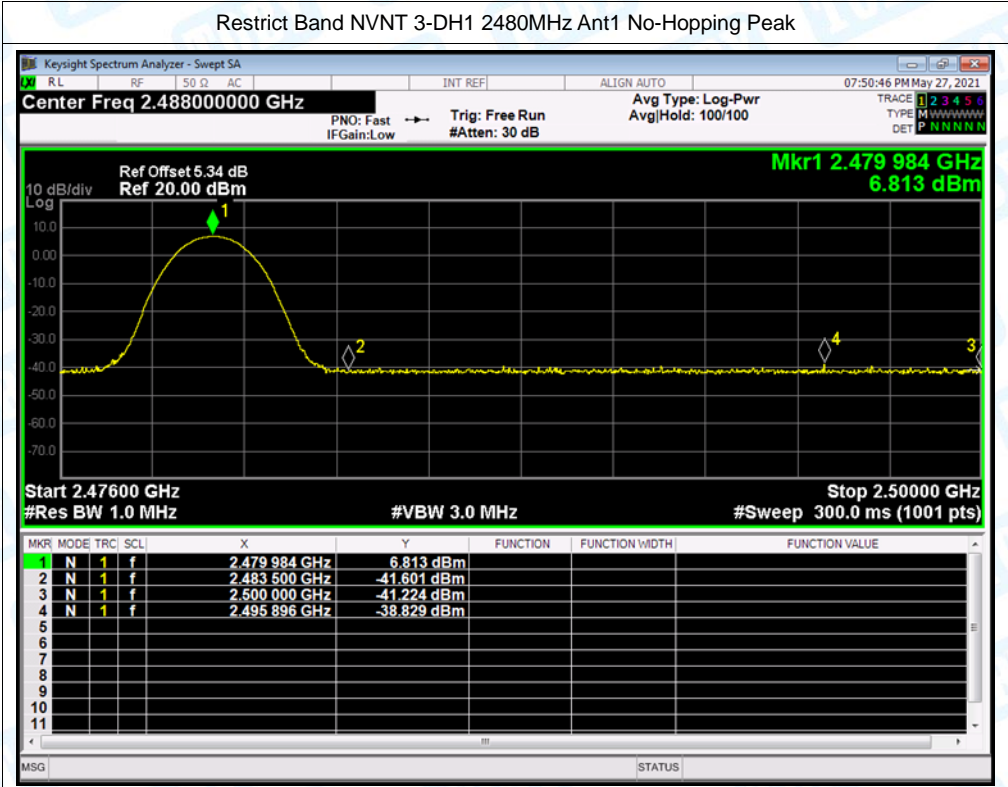
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Peak



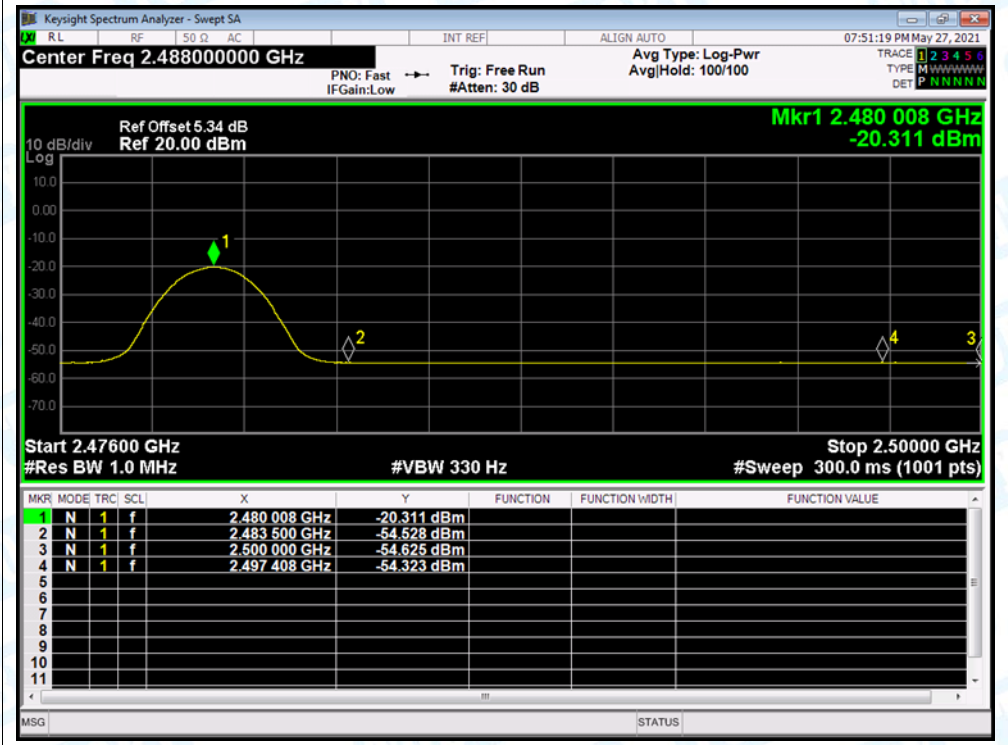
Restrict Band NVNT 3-DH1 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Peak

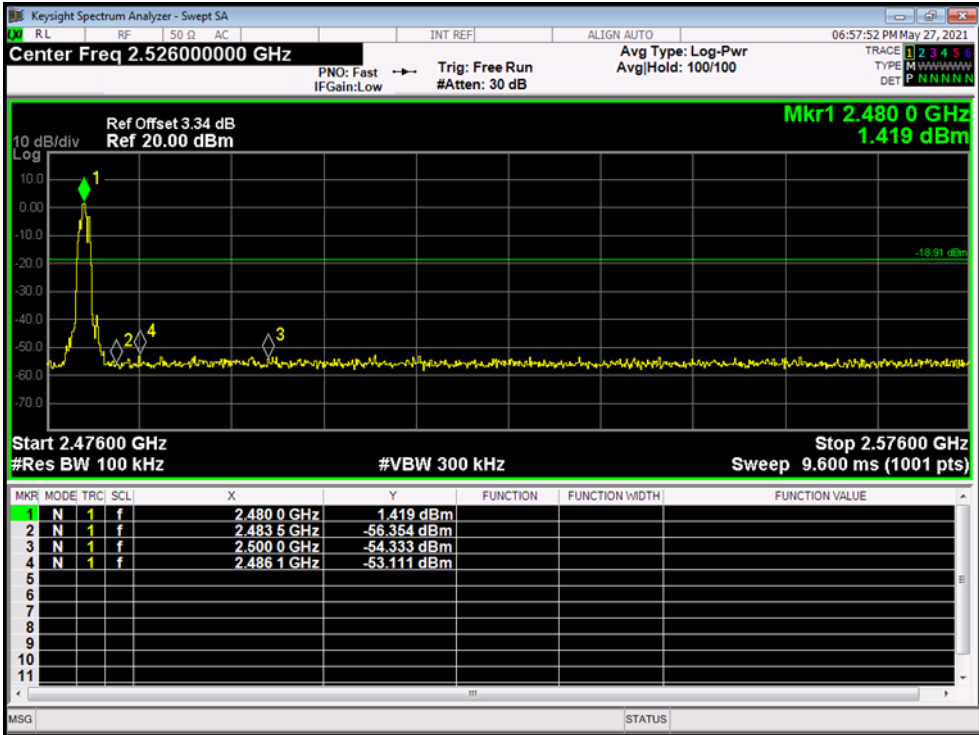
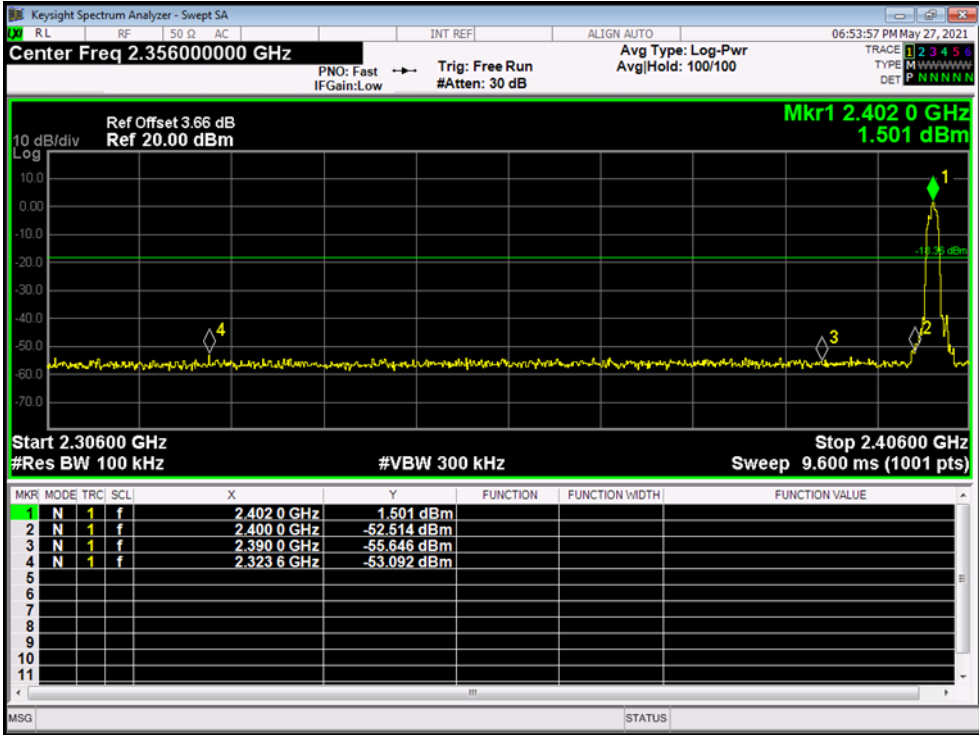


Restrict Band NVNT 3-DH1 2480MHz Ant1 No-Hopping Average

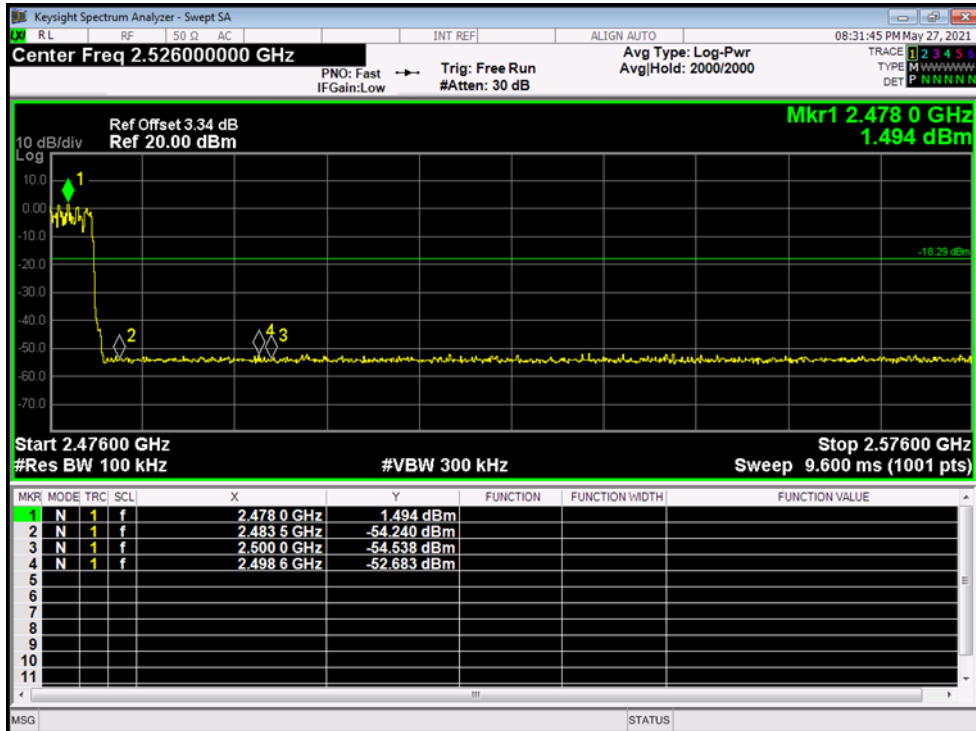
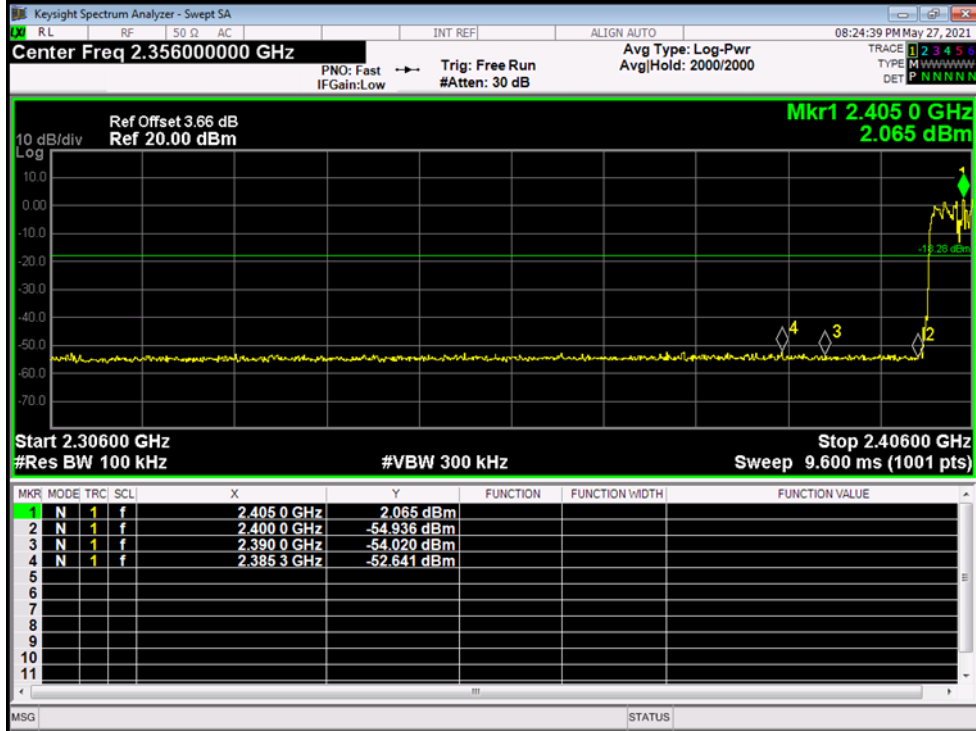


Attachment D-- Conducted Spurious Emissions and Band Edges Test

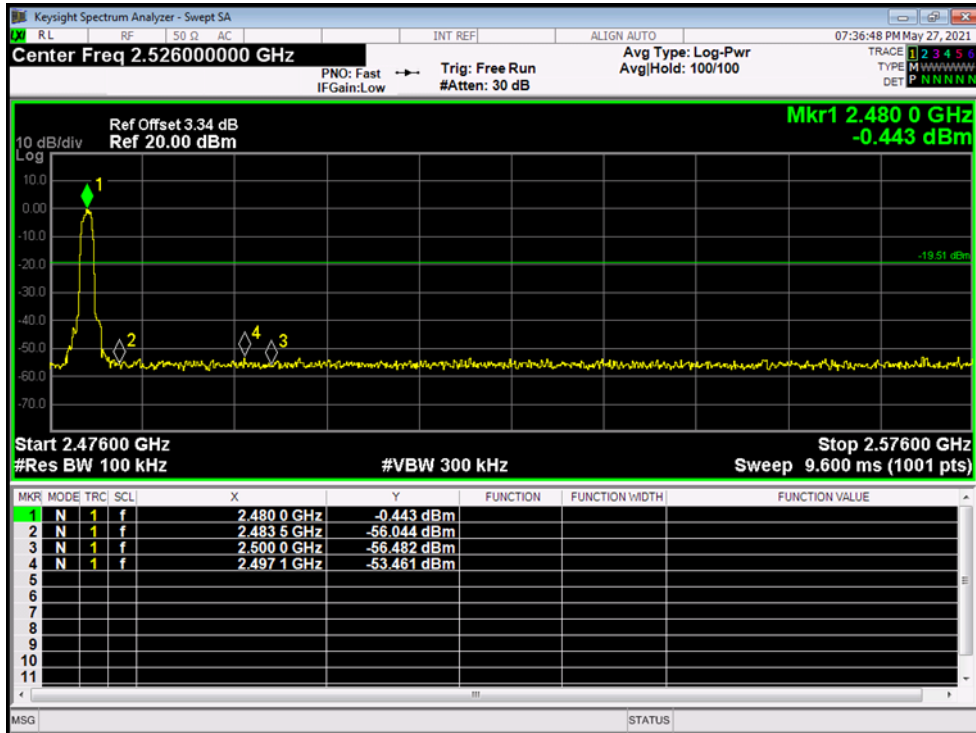
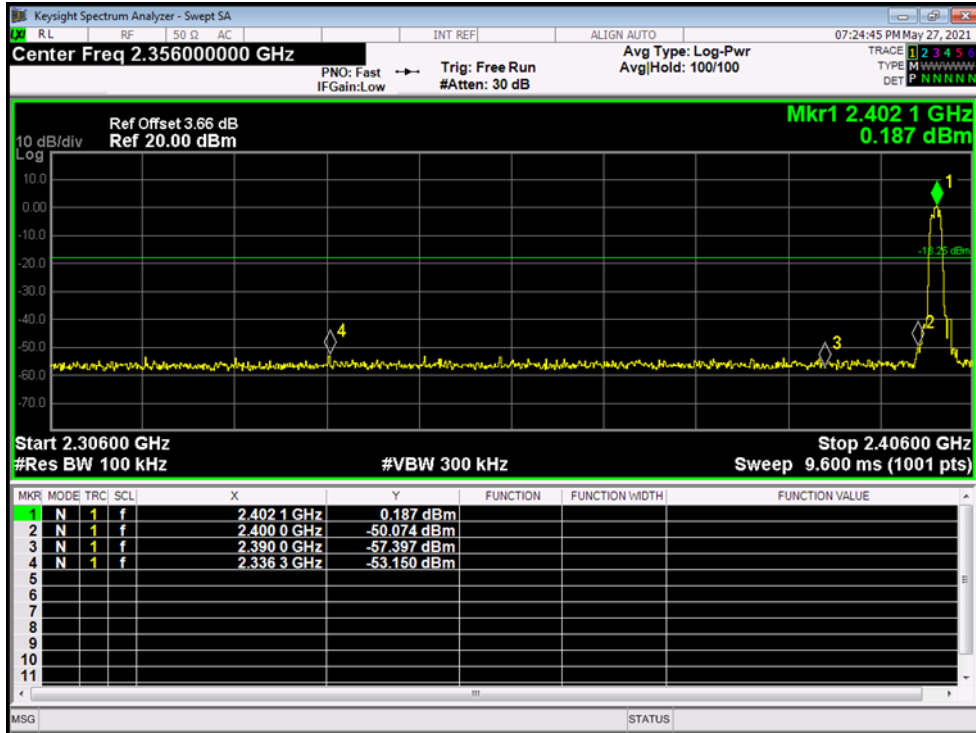
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX GFSK Mode 2402MHz/2480 MHz		
Remark:	Only worse case is reported		



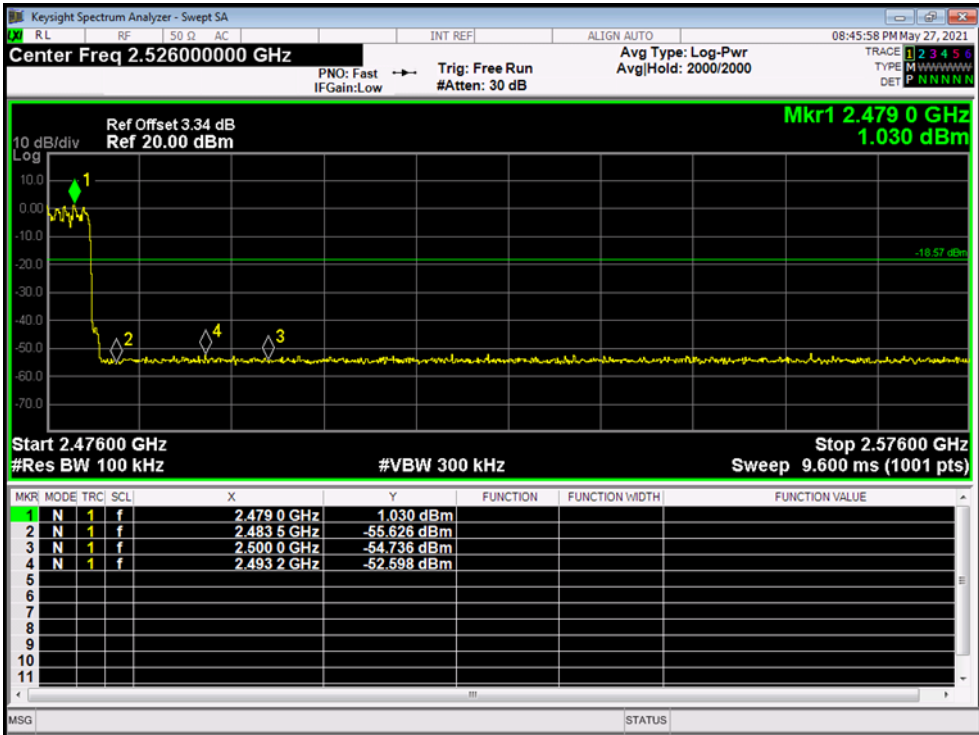
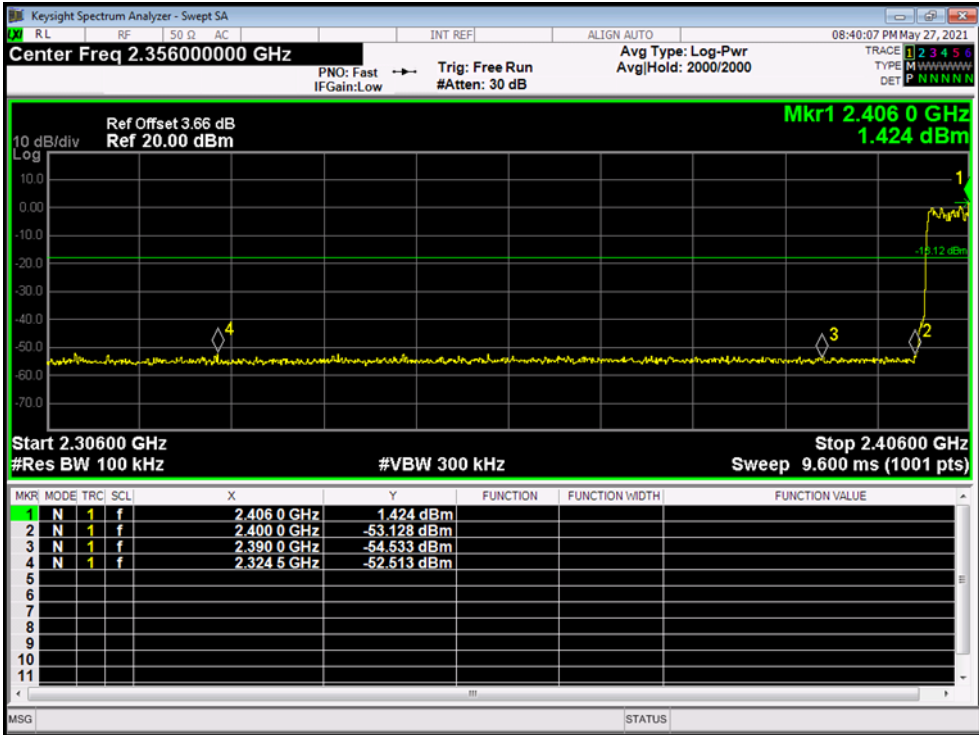
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	GFSK Hopping Mode		
Remark:	Only worse case is reported		



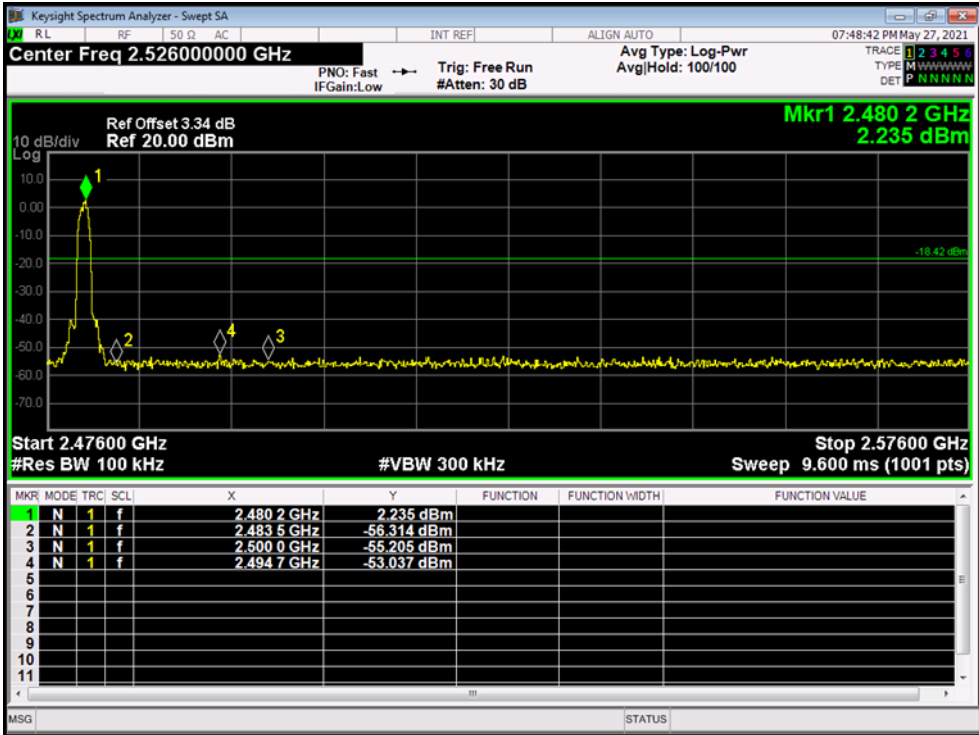
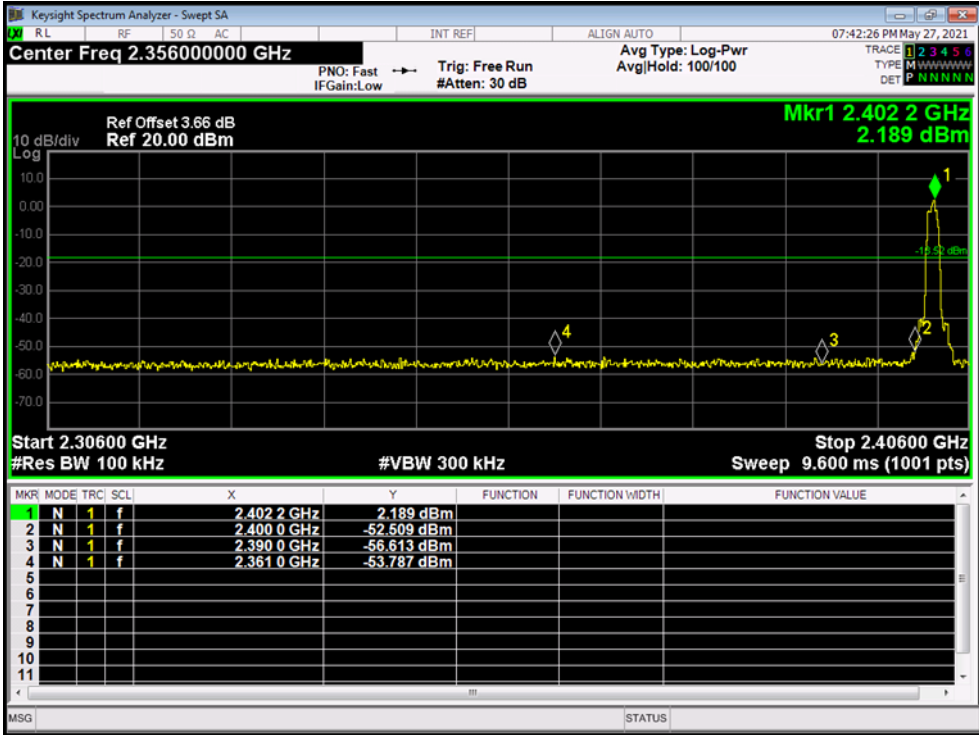
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX π /4-DQPSK Mode 2402MHz/2480 MHz		
Remark:	Only worse case is reported		



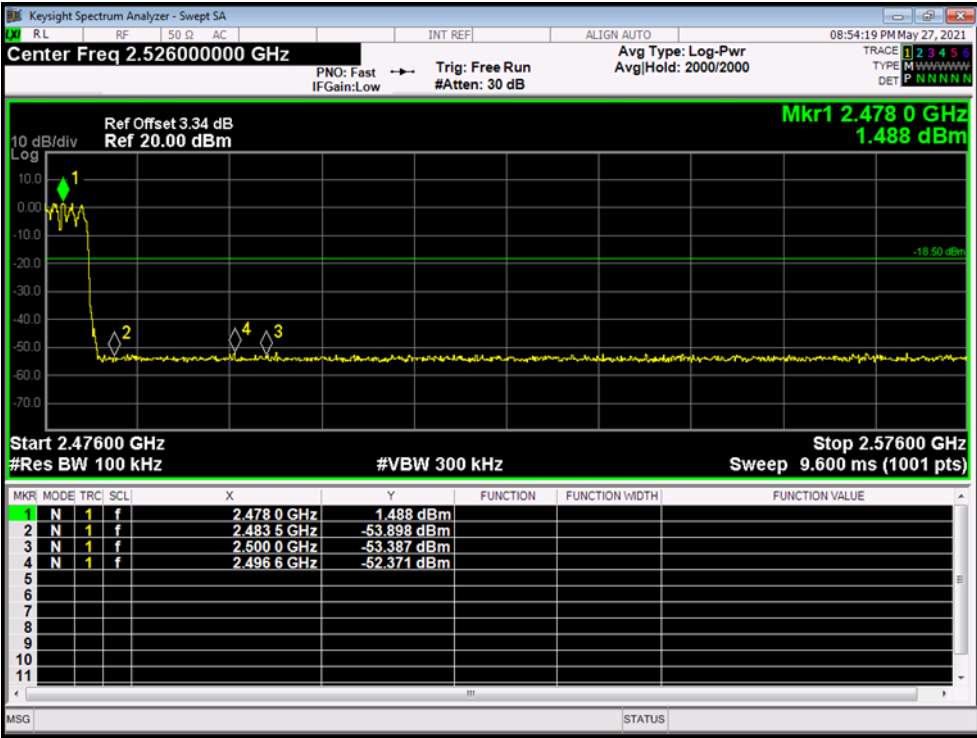
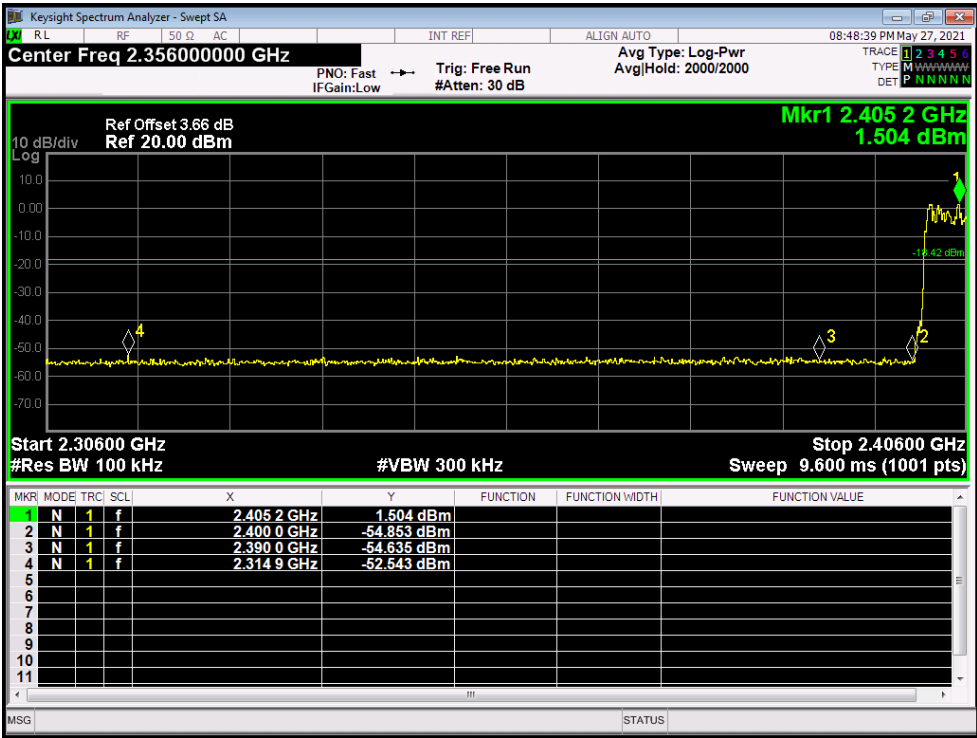
Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	π /4-DQPSK Hopping Mode		
Remark:	Only worse case is reported		



Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX 8DPSK Mode 2402MHz/2480 MHz		
Remark:	Only worse case is reported		



Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	8DPSK Hopping Mode		
Remark:	Only worse case is reported		

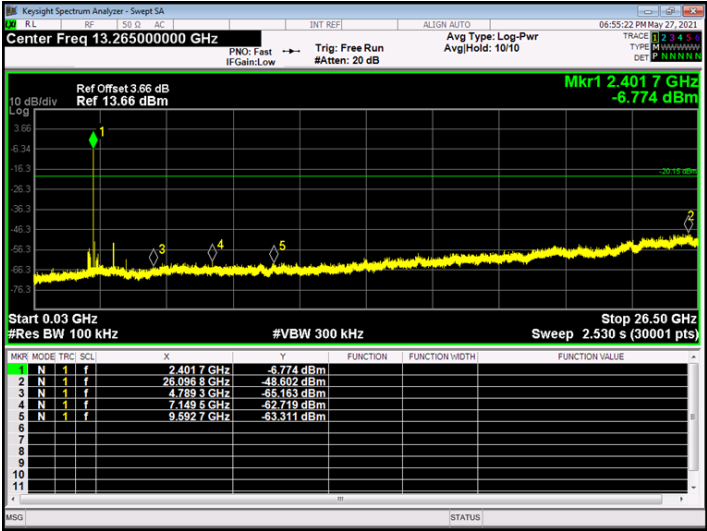
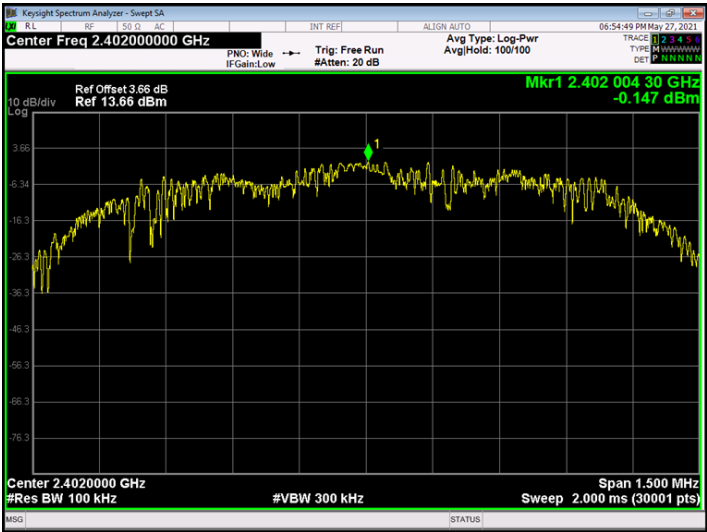


RF Conducted Spurious Emissions

Temperature:	25°C	Relative Humidity:	55%		
Test Voltage:	AC 120V/60 Hz				
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
GFSK	2402	Ant1	-48.45	-20	Pass
GFSK	2442	Ant1	-49.47	-20	Pass
GFSK	2480	Ant1	-48.63	-20	Pass
Remark:	The EUT is programmed in continuously transmitting mode				

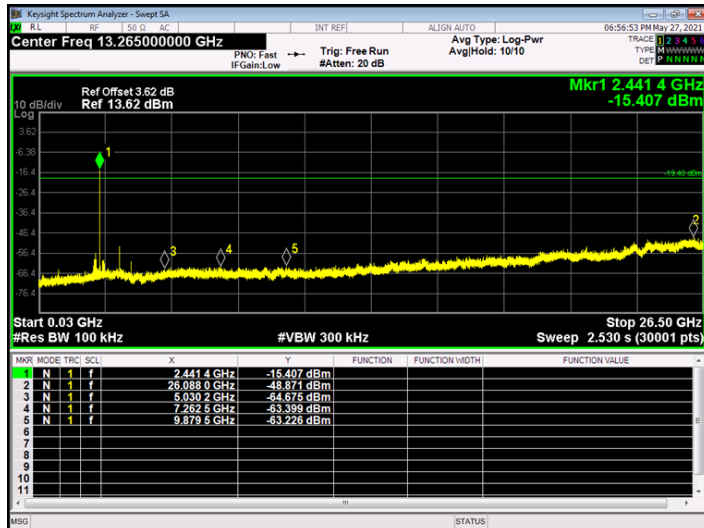
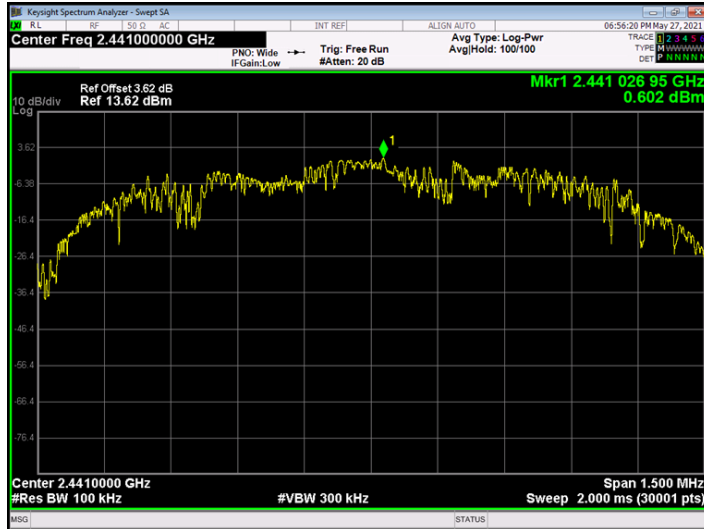
GFSK Mode

2402 MHz



GFSK Mode

2441 MHz



GFSK Mode

2480 MHz

