

TEST REPORT

Product Name : Tablet PC
Brand Mark : tibuta
Model No. : K100
Extension Model : K101, K102
FCC ID : 2AXUI-K100
Report Number : BLA-EMC-202106-A3502
Date of Sample Receipt : 2021/6/9
Date of Test : 2021/6/9 to 2021/7/27
Date of Issue : 2021/7/27
Test Standard : 47 CFR Part 15, Subpart C 15.247
Test Result : Pass

Prepared for:

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Date:

2021/7/27



REPORT REVISE RECORD

Version No.	Date	Description
00	2021/7/27	Original

BlueAsia

TABLE OF CONTENTS

1	TEST SUMMARY	5
2	GENERAL INFORMATION	6
3	GENERAL DESCRIPTION OF E.U.T.	6
4	TEST ENVIRONMENT	7
5	TEST MODE	7
6	MEASUREMENT UNCERTAINTY	7
7	DESCRIPTION OF SUPPORT UNIT.....	8
8	LABORATORY LOCATION.....	8
9	TEST INSTRUMENTS LIST	9
10	RADIATED SPURIOUS EMISSIONS.....	12
10.1	LIMITS	12
10.2	BLOCK DIAGRAM OF TEST SETUP	13
10.3	PROCEDURE	13
10.4	TEST DATA.....	15
11	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS.....	23
11.1	LIMITS	23
11.2	BLOCK DIAGRAM OF TEST SETUP	24
11.3	PROCEDURE	24
11.4	TEST DATA.....	26
12	CONDUCTED SPURIOUS EMISSIONS	42
12.1	LIMITS	42
12.2	BLOCK DIAGRAM OF TEST SETUP	42
12.3	TEST DATA.....	43
13	CONDUCTED BAND EDGES MEASUREMENT.....	44
13.1	LIMITS	44
13.2	BLOCK DIAGRAM OF TEST SETUP	44
13.3	TEST DATA.....	45
14	POWER SPECTRUM DENSITY.....	46
14.1	LIMITS	46
14.2	BLOCK DIAGRAM OF TEST SETUP	46

14.3	TEST DATA.....	46
15	CONDUCTED PEAK OUTPUT POWER	47
15.1	LIMITS	47
15.2	BLOCK DIAGRAM OF TEST SETUP	47
15.3	TEST DATA.....	48
16	MINIMUM 6DB BANDWIDTH	49
16.1	LIMITS	49
16.2	BLOCK DIAGRAM OF TEST SETUP	49
16.3	TEST DATA.....	49
17	CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ).....	50
17.1	LIMITS	50
17.2	BLOCK DIAGRAM OF TEST SETUP	50
17.3	PROCEDURE	50
17.4	TEST DATA.....	52
18	ANTENNA REQUIREMENT	54
18.1	CONCLUSION	54
19	APPENDIX.....	55
19.1	MAXIMUM CONDUCTED OUTPUT POWER	55
19.2	-6DB BANDWIDTH	62
19.3	OCCUPIED CHANNEL BANDWIDTH.....	69
19.4	MAXIMUM POWER SPECTRAL DENSITY LEVEL	76
19.5	BAND EDGE.....	83
19.6	CONDUCTED RF SPURIOUS EMISSION	92
APPENDIX A:	PHOTOGRAPHS OF TEST SETUP	105

1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
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 15.209 & 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 15.209 & 15.247(d)	Pass
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	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 Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1	47 CFR Part 15, Subpart C 15.247(b)(1) & 15.247(b)(3)	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 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
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	Pass

2 GENERAL INFORMATION

Applicant	CHITECH SHENZHEN TECHNOLOGY CO.,LTD
Address	Chitech industrial Park,NO.48,Xiashijia Road,Gongming Town,Guangming New Dist.,Shenzhen,China
Manufacturer	CHITECH SHENZHEN TECHNOLOGY CO.,LTD
Address	Chitech industrial Park,NO.48,Xiashijia Road,Gongming Town,Guangming New Dist.,Shenzhen,China
Factory	CHITECH SHENZHEN TECHNOLOGY CO.,LTD
Address	Chitech industrial Park,NO.48,Xiashijia Road,Gongming Town,Guangming New Dist.,Shenzhen,China
Product Name	Tablet PC
Test Model No.	K100

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	BND-A863-C V5.0
Software Version	ZT_IR_Tibuta_MasterPad_K100_2G-go_R133_A863_8_land_gc030a_gc02m2_user
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20):11 802.11n(HT40):7
Antenna Type:	Internal antenna
Antenna Gain:	0.53dBi (Provided by the applicant)

4 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	+25°C	3.7Vdc

5 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
TX	Keep the EUT in continuously transmitting mode with modulation. (the dutycycle >98%)
Remark: Only the data of the worst mode would be recorded in this report.	

6 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB

7 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
NA	NA	NA	N/A	N/A

8 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District, Shenzhen, Guangdong Province,
China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

9 TEST INSTRUMENTS LIST

Test Equipment Of Radiated Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25
Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

Test Equipment Of Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	2020/11/10	2023/11/9
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Receiver	R&S	ESR7	101199	2020/10/12	2021/10/11
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2020/9/26	2022/9/25
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	2020/9/26	2022/9/25

Amplifier	SKET	PA-000318G-45	N/A	2020/10/16	2021/10/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2020/9/26	2022/9/25
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A

Test Equipment Of Conducted Spurious Emissions

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Conducted Band Edges Measurement

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Power Spectrum Density

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11

Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Conducted Peak Output Power

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Minimum 6dB Bandwidth

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2020/10/12	2021/10/11
Spectrum	Agilent	N9020A	MY49100060	2020/10/12	2021/10/11
Signal Generator	Agilent	N5182A	MY49060650	2020/10/12	2021/10/11
Signal Generator	Agilent	E8257D	MY44320250	2020/10/12	2021/10/11

Test Equipment Of Conducted Emissions at AC Power Line (150kHz-30MHz)

Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Shield room	SKET	833	N/A	2020/11/25	2023/11/24
Receiver	R&S	ESPI3	101082	2020/10/12	2021/10/11
LISN	R&S	ENV216	3560.6550.15	2020/10/12	2021/10/11
LISN	AT	AT166-2	AKK1806000003	2020/10/12	2021/10/11
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A

10 RADIATED SPURIOUS EMISSIONS

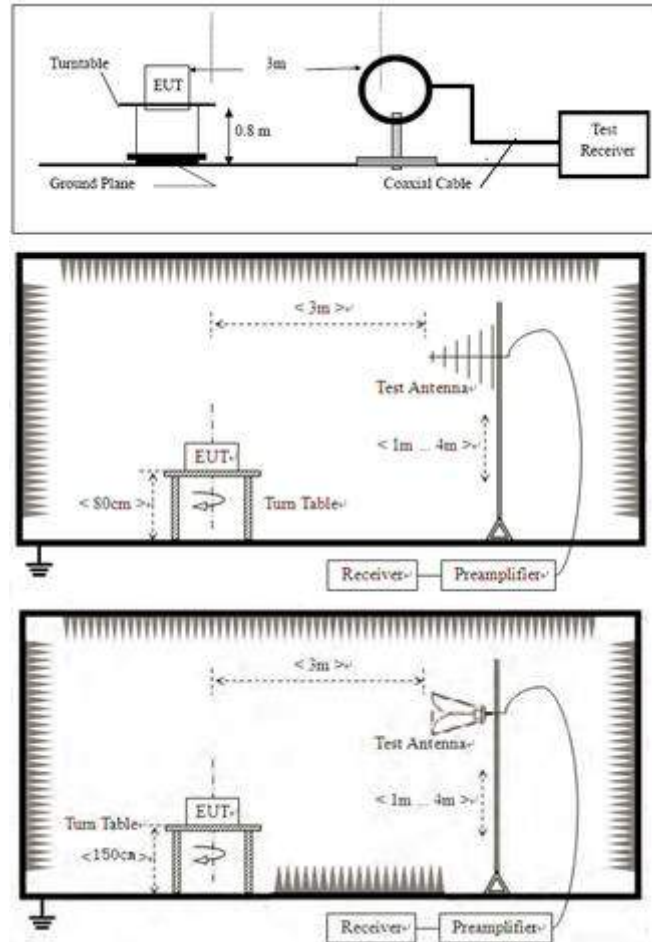
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Sven
Temperature	25°C
Humidity	52%

10.1 LIMITS

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.

10.2 BLOCK DIAGRAM OF TEST SETUP



10.3 PROCEDURE

- 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.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

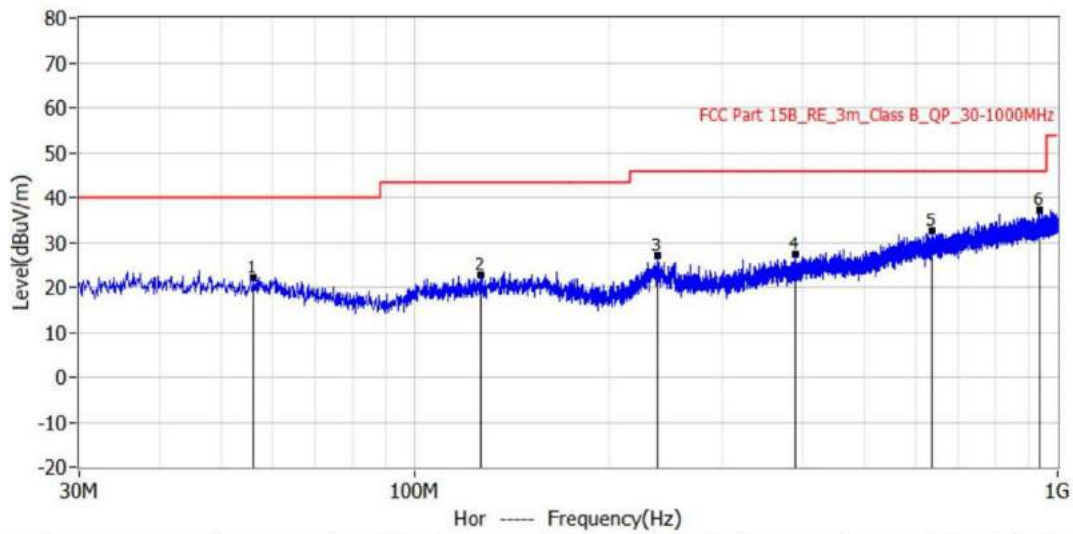
Remark:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. fundamental frequency is blocked by filter, and only spurious emission is shown.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

10.4 TEST DATA

[TestMode: TX]; [Polarity: Horizontal]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202106-A35
EUT: Tablet PC	Test Engineer:
M/N: Tibuta_MasterPad K100	Temperature:
S/N:	Humidity:
Test Mode: TX mode	Test Voltage:
Note:	Test Data: 2021-07-23 17:09:02

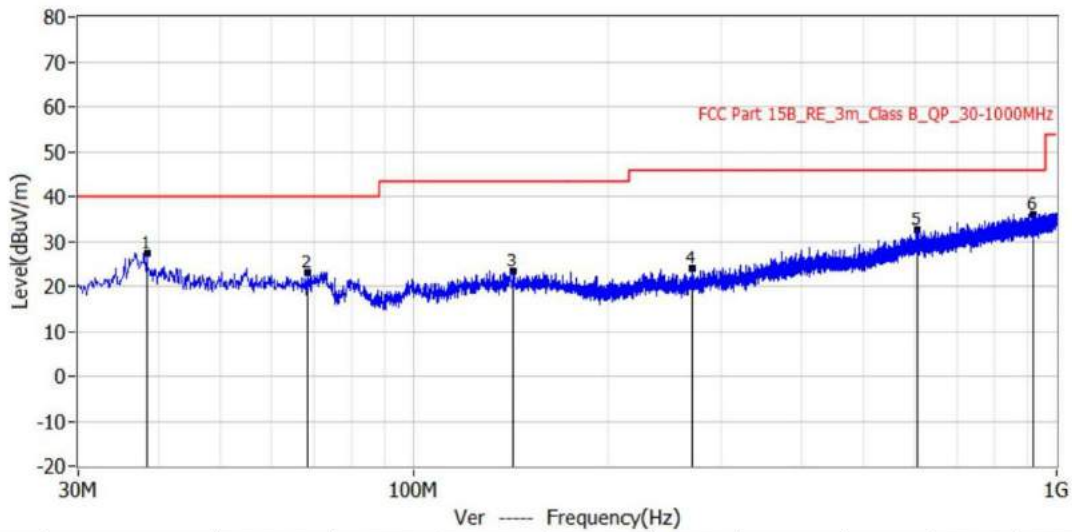


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	55.948MHz	40.0	22.1	-17.9	-1.5	23.6	QP	Hor		
2*	126.636MHz	43.5	22.8	-20.7	-0.3	23.1	QP	Hor		
3*	238.065MHz	46.0	27.1	-18.9	4.4	22.7	QP	Hor		
4*	390.476MHz	46.0	27.5	-18.5	0.5	27.0	QP	Hor		
5*	638.311MHz	46.0	32.7	-13.3	1.2	31.5	QP	Hor		
6*	937.193MHz	46.0	37.1	-8.9	1.7	35.4	QP	Hor		

Test Result: Pass

[TestMode: TX]; [Polarity: Vertical]

Test Lab: BlueAsia EMC Lab (RE #1)	Project: BLA-EMC-202106-A35
EUT: Tablet PC	Test Engineer:
M/N: Tibuta_MasterPad K100	Temperature:
S/N:	Humidity:
Test Mode: TX mode	Test Voltage:
Note:	Test Data: 2021-07-23 17:11:41

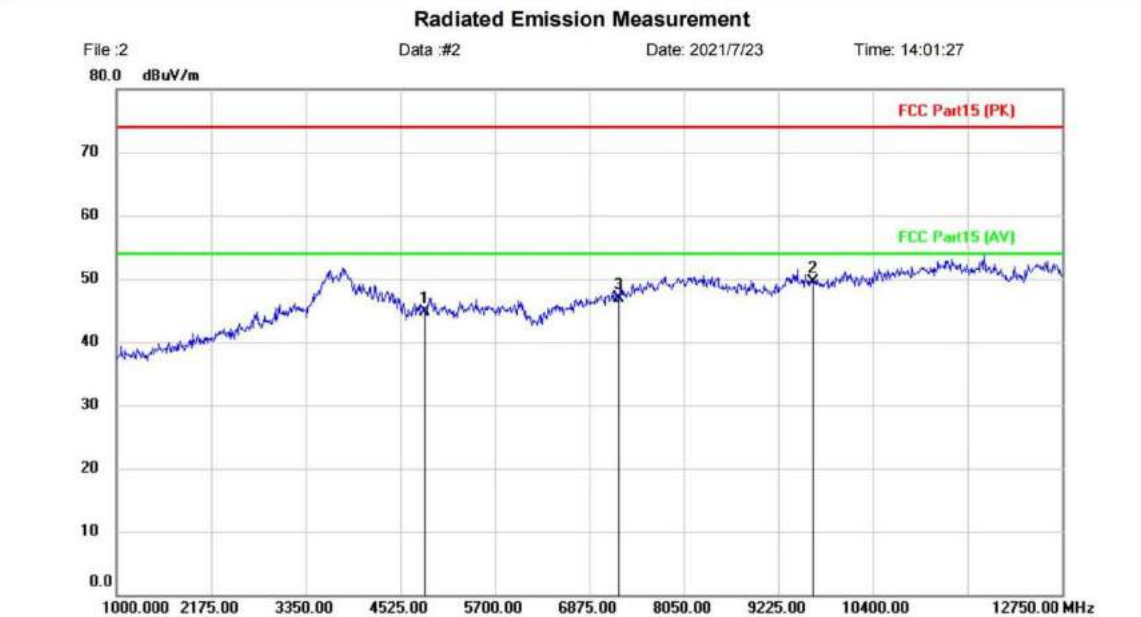


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	38.366MHz	40.0	27.5	-12.5	3.6	23.9	QP	Ver		
2*	68.315MHz	40.0	23.2	-16.8	1.4	21.8	QP	Ver		
3*	142.278MHz	43.5	23.5	-20.0	-0.2	23.7	QP	Ver		
4*	270.560MHz	46.0	23.9	-22.1	0.8	23.1	QP	Ver		
5*	606.544MHz	46.0	32.6	-13.4	1.3	31.3	QP	Ver		
6*	920.096MHz	46.0	36.1	-9.9	0.9	35.2	QP	Ver		

Test Result: Pass

Remark: During the test, pre-scan the 802.11b/g/n mode, and found the 802.11n40 mode which it is worse case.

[TestMode: 802.11B-L]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: B-L		
Note:		

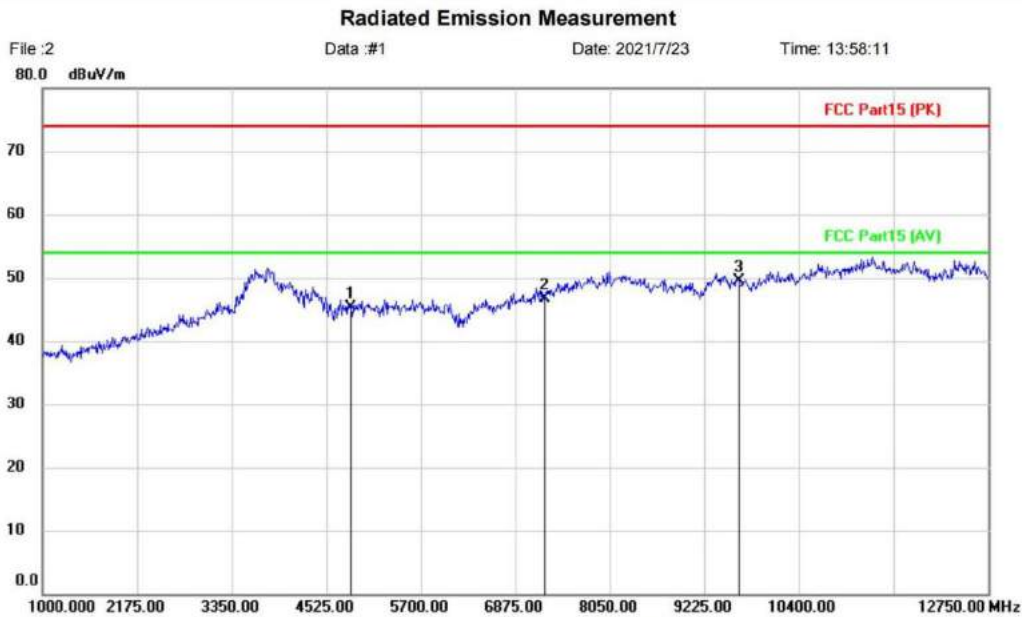
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4824.000	41.15	3.62	44.77	74.00	-29.23	peak		
2	*	9648.000	40.16	9.37	49.53	74.00	-24.47	peak		
3		7236.000	40.82	6.07	46.89	74.00	-27.11	peak		

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

<Reference Only

Test Result: Pass

[TestMode: 802.11B-L]; [Polarity: Vertical]



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: B-L		
Note:		

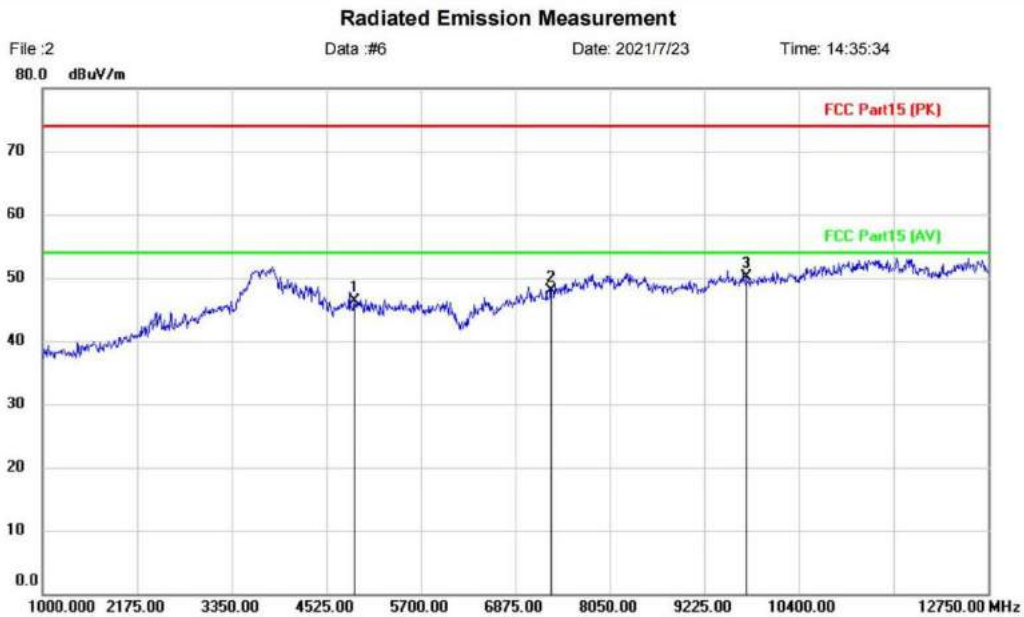
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4824.000	41.65	3.62	45.27	74.00	-28.73	peak		
2		7236.000	40.72	6.07	46.79	74.00	-27.21	peak		
3	*	9648.000	40.17	9.37	49.54	74.00	-24.46	peak		

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

<Reference Only

Test Result: Pass

[TestMode: 802.11B-M]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: B-M		
Note:		

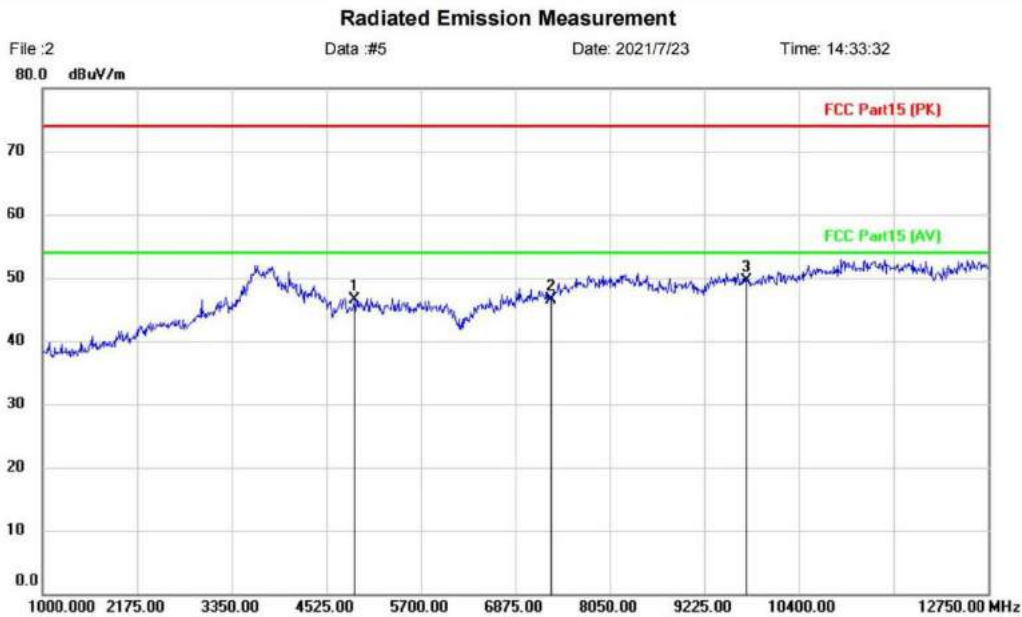
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4874.000	42.94	3.39	46.33	74.00	-27.67	peak		
2		7311.000	41.48	6.37	47.85	74.00	-26.15	peak		
3	*	9748.000	40.58	9.59	50.17	74.00	-23.83	peak		

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

<Reference Only

Test Result: Pass

[TestMode: 802.11B-M]; [Polarity: Vertical]



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: B-M		
Note:		

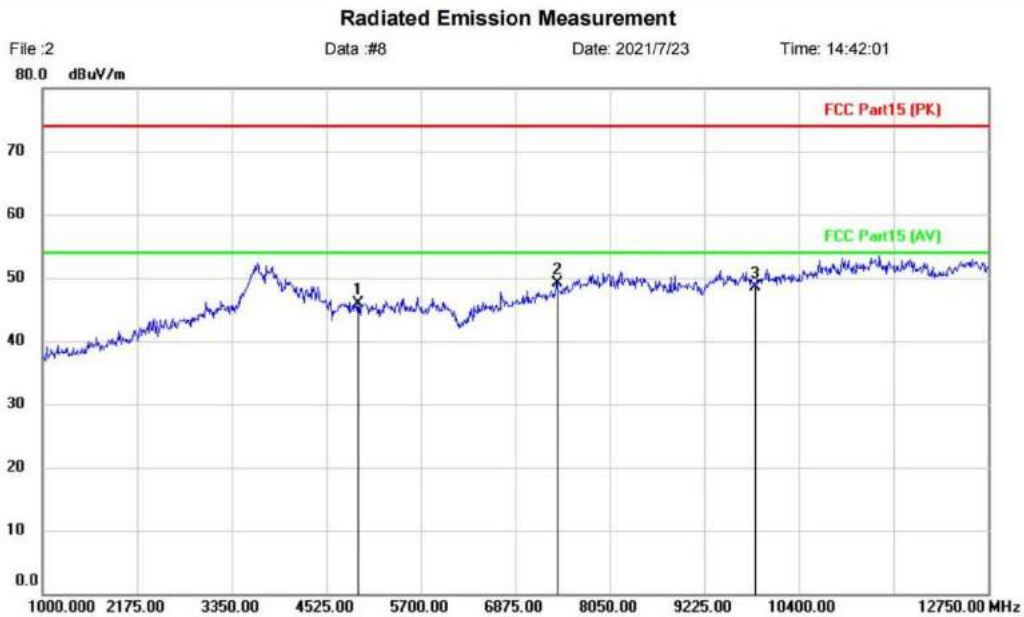
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4874.000	43.08	3.39	46.47	74.00	-27.53	peak		
2		7311.000	40.13	6.37	46.50	74.00	-27.50	peak		
3	*	9748.000	39.84	9.59	49.43	74.00	-24.57	peak		

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

<Reference Only

Test Result: Pass

[TestMode: 802.11B-H]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: B-H		
Note:		

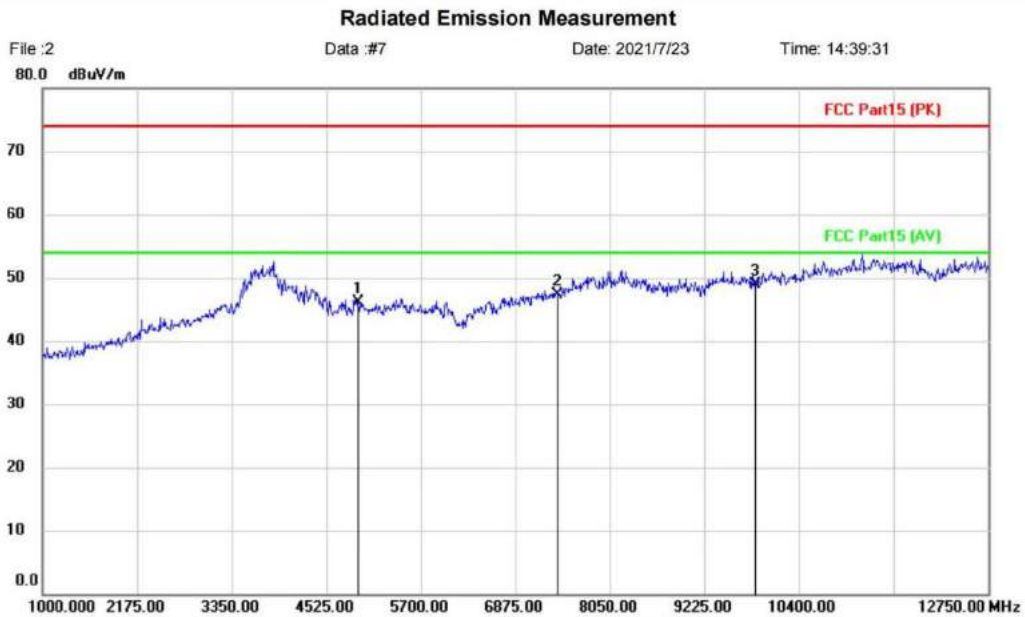
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4924.000	42.38	3.46	45.84	74.00	-28.16	peak		
2	*	7386.000	42.40	6.68	49.08	74.00	-24.92	peak		
3		9848.000	38.68	9.88	48.56	74.00	-25.44	peak		

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

<Reference Only

Test Result: Pass

[TestMode: 802.11B-H]; [Polarity: Vertical]



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: B-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		4924.000	42.69	3.46	46.15	74.00	-27.85	peak		
2		7386.000	40.60	6.68	47.28	74.00	-26.72	peak		
3	*	9848.000	38.96	9.88	48.84	74.00	-25.16	peak		

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

⟨Reference Only

Test Result: Pass

11 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

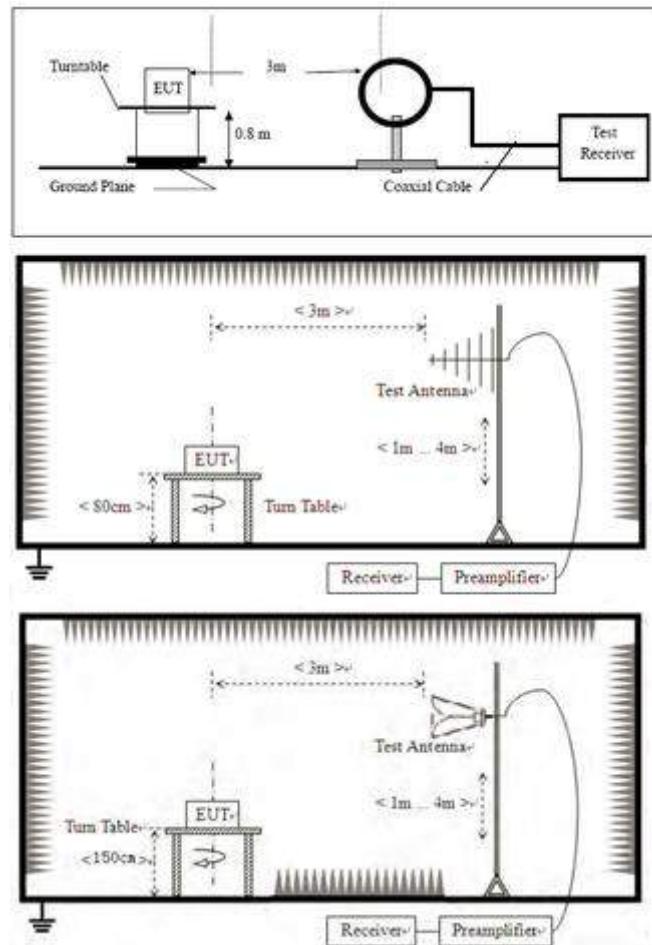
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Sven
Temperature	25°C
Humidity	52%

11.1 LIMITS

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.

11.2 BLOCK DIAGRAM OF TEST SETUP



11.3 PROCEDURE

- 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.

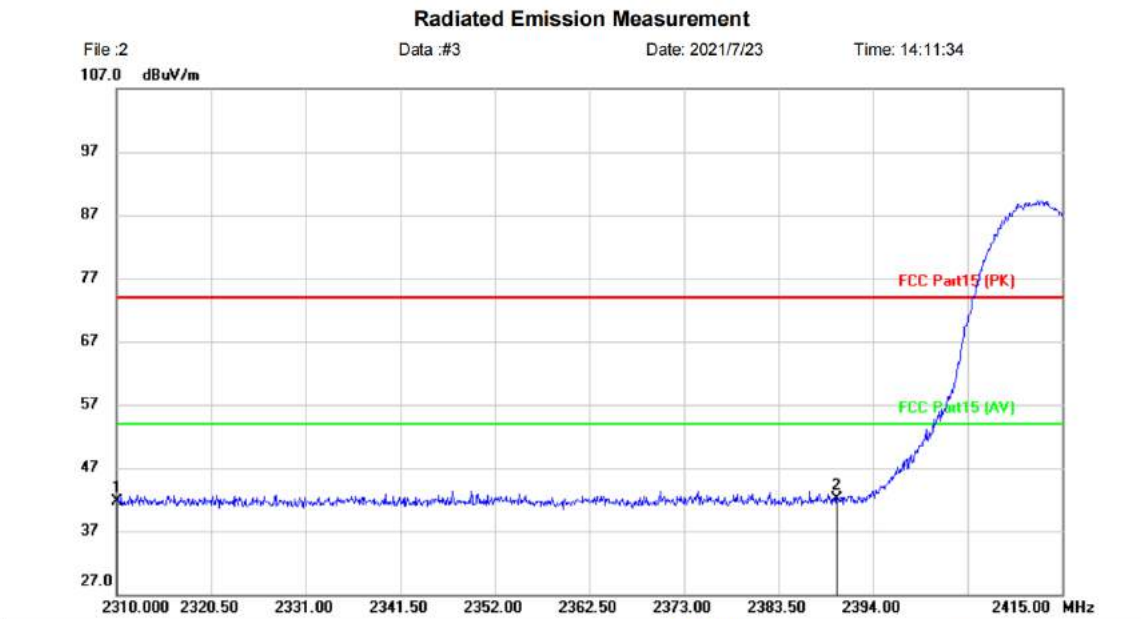
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamp Factor}$

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

BlueAsia

[TestMode: 802.11B-L]; [Polarity: Vertical]



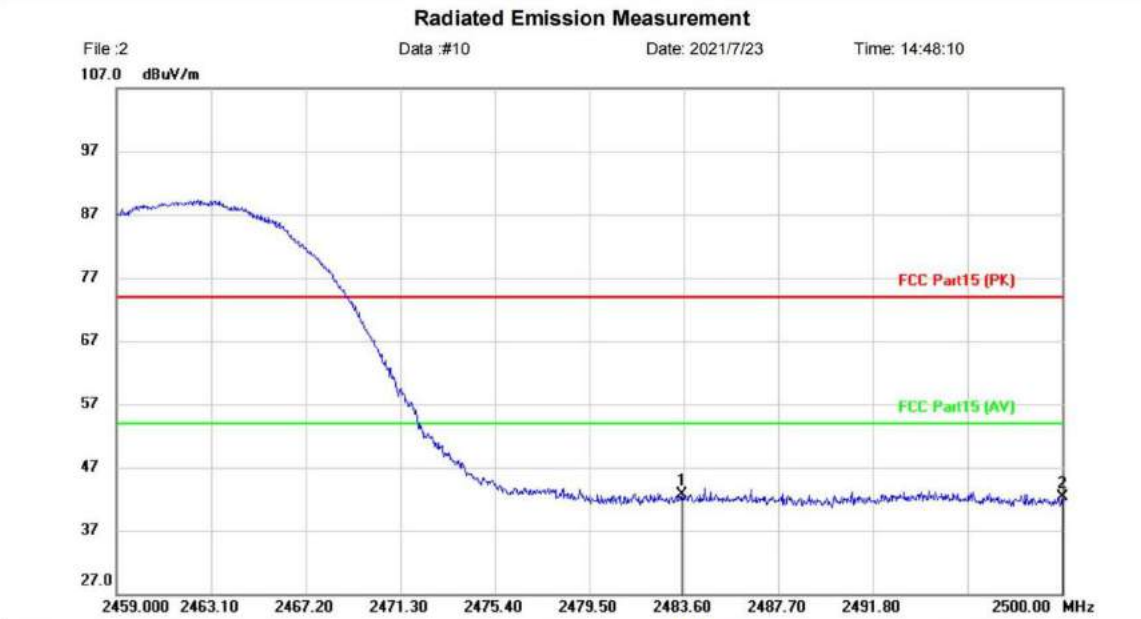
Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: B-L		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	46.25	-4.61	41.64	74.00	-32.36	peak		
2	*	2390.000	46.37	-4.27	42.10	74.00	-31.90	peak		

*:Maximum data x:Over limit !:over margin <Reference Only

Test Result: Pass

[TestMode: 802.11B-H]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: B-H		
Note:		

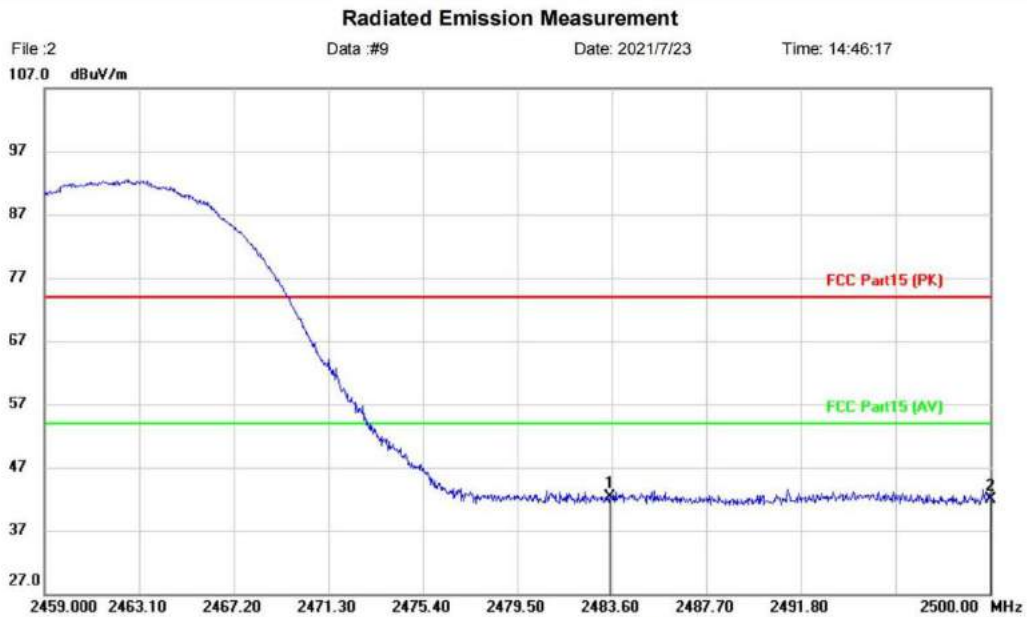
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	2483.500	46.64	-3.84	42.80	74.00	-31.20	peak	
2		2500.000	46.00	-3.78	42.22	74.00	-31.78	peak	

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

<Reference Only

Test Result: Pass

[TestMode: 802.11B-H]; [Polarity: Vertical]



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: B-H		
Note:		

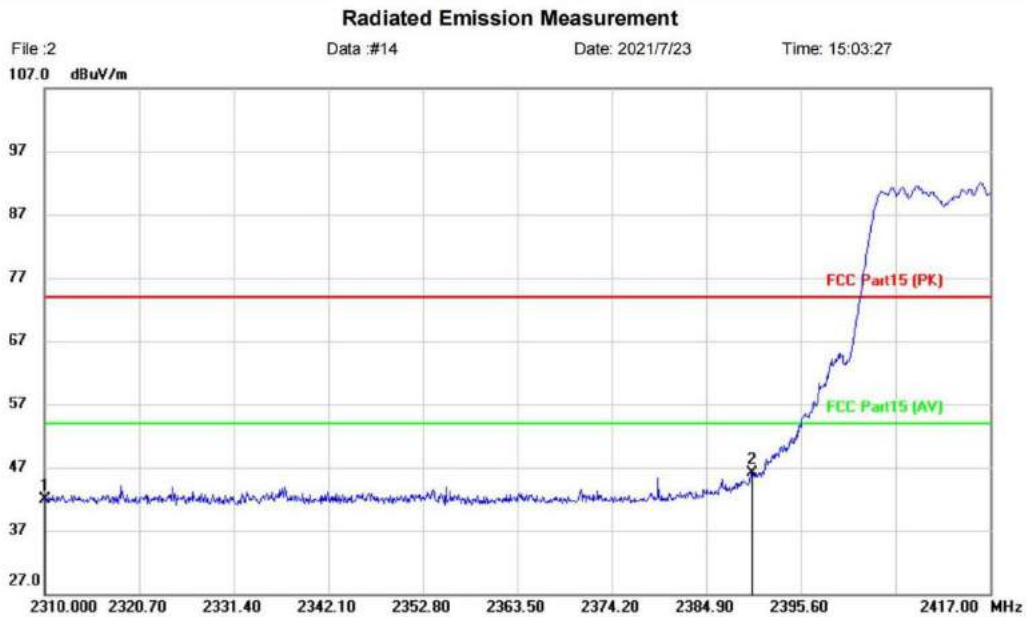
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2483.500	46.22	-3.84	42.38	74.00	-31.62	peak		
2		2500.000	45.61	-3.78	41.83	74.00	-32.17	peak		

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

<Reference Only

Test Result: Pass

[TestMode: 802.11G-L]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: G-L		
Note:		

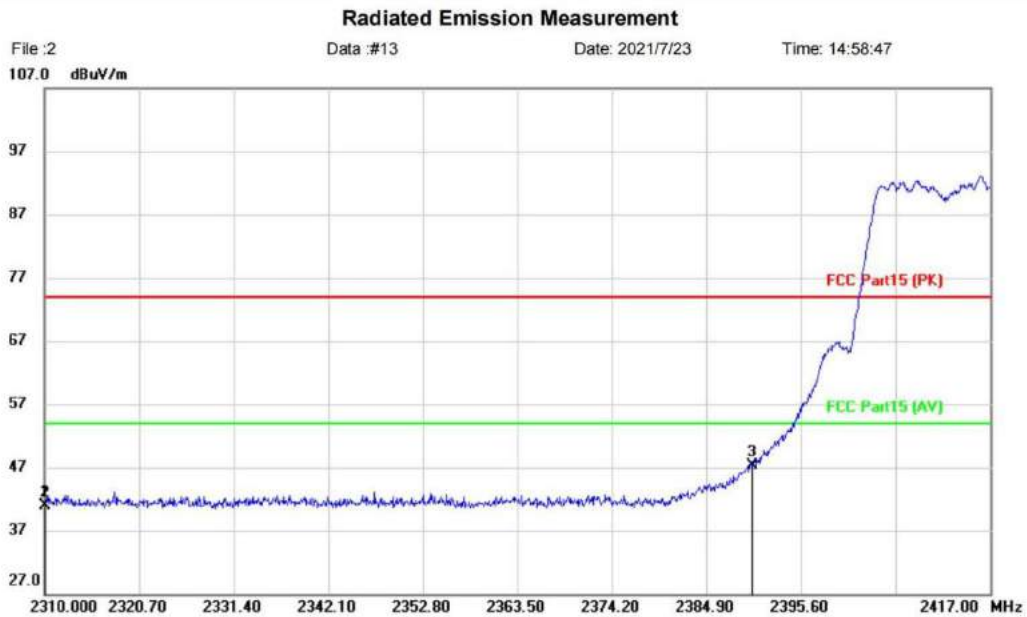
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	46.44	-4.61	41.83	74.00	-32.17	peak		
2	*	2390.000	50.34	-4.27	46.07	74.00	-27.93	peak		

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

<Reference Only

Test Result: Pass

[TestMode: 802.11G-L]; [Polarity: Vertical]



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: G-L		
Note:		

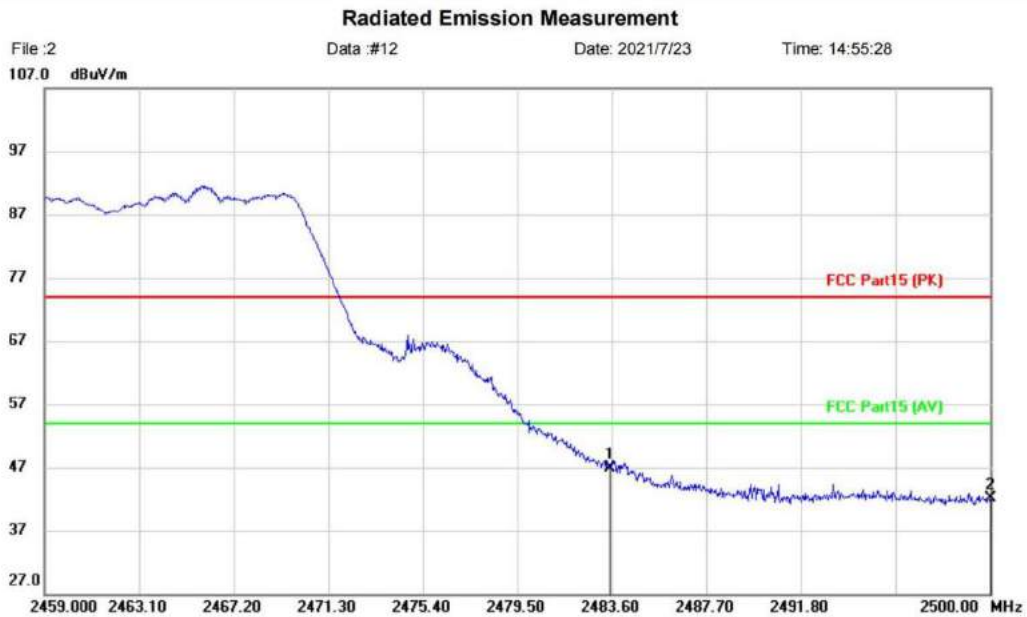
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	45.57	-4.61	40.96	74.00	-33.04	peak		
2		2310.000	45.57	-4.61	40.96	74.00	-33.04	peak		
3	*	2390.000	51.67	-4.27	47.40	74.00	-26.60	peak		

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

<Reference Only

Test Result: Pass

[TestMode: 802.11G-H]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: G-H		
Note:		

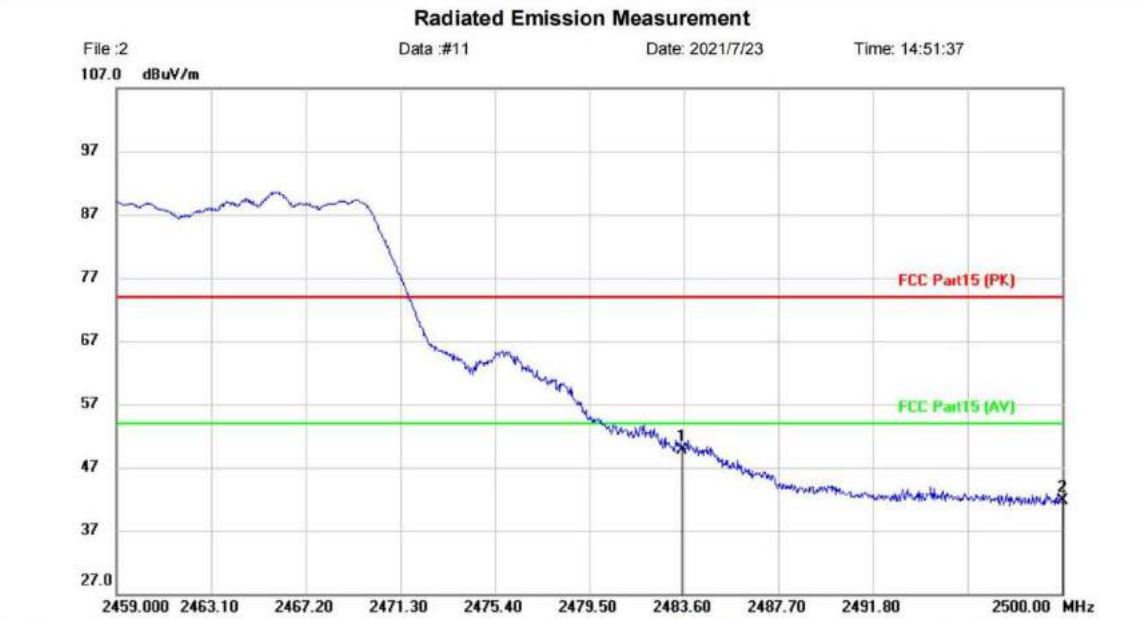
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	2483.500	50.84	-3.84	47.00	74.00	-27.00	peak	
2		2500.000	45.80	-3.78	42.02	74.00	-31.98	peak	

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

<Reference Only

Test Result: Pass

[TestMode: 802.11G-H]; [Polarity: Vertical]



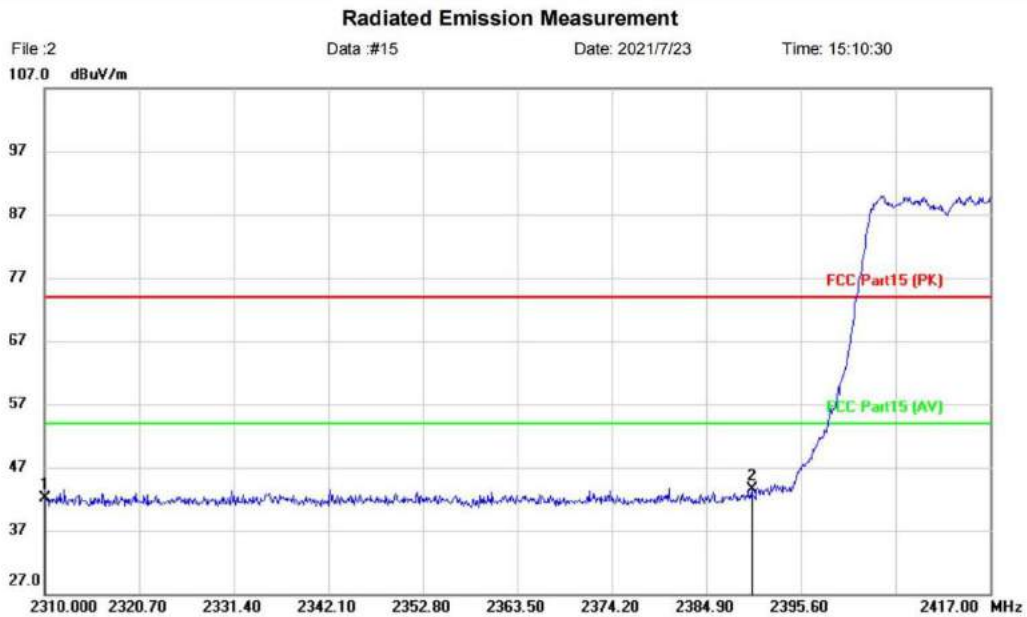
Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: G-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	2483.500	53.49	-3.84	49.65	74.00	-24.35 peak		
2		2500.000	45.54	-3.78	41.76	74.00	-32.24 peak		

*:Maximum data x:Over limit !:over margin <Reference Only

Test Result: Pass

[TestMode: 802.11N20-L]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: N20-L		
Note:		

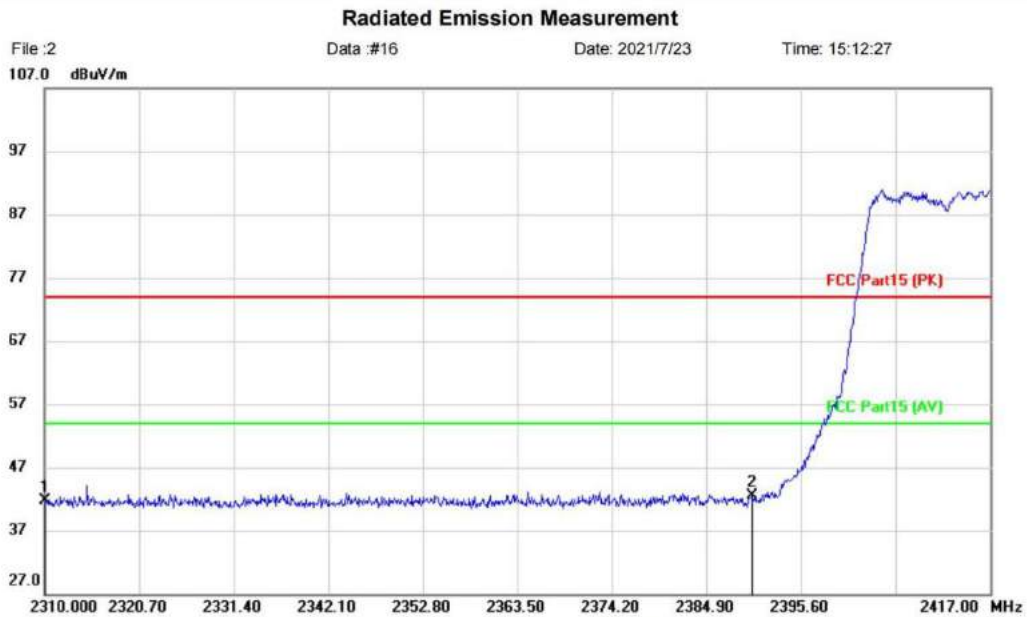
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	46.68	-4.61	42.07	74.00	-31.93	peak		
2	*	2390.000	47.71	-4.27	43.44	74.00	-30.56	peak		

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

<Reference Only

Test Result: Pass

[TestMode: 802.11N20-L]; [Polarity: Vertical]



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: N20-L		
Note:		

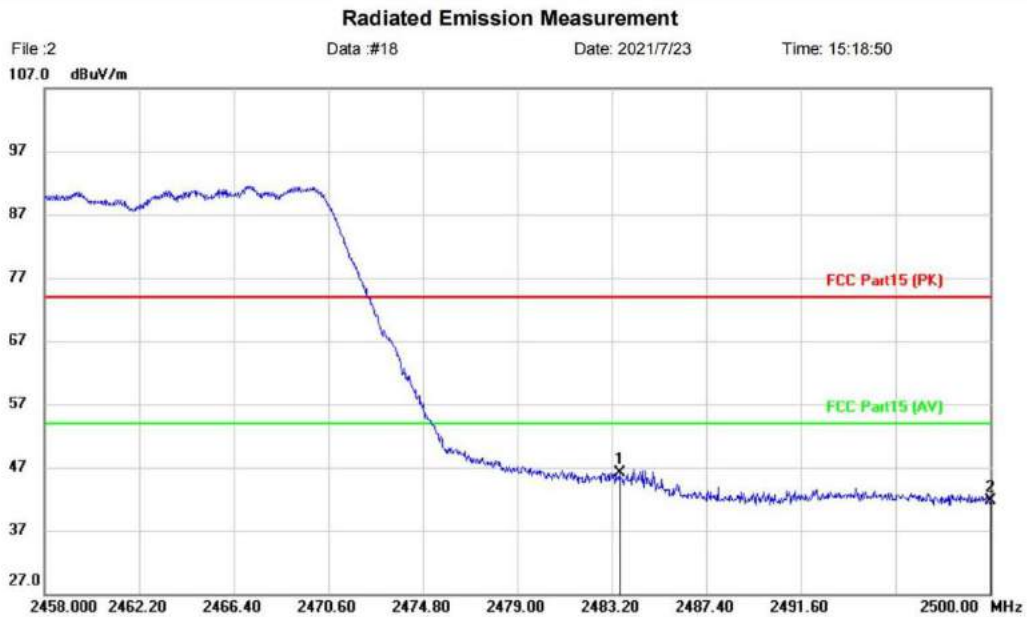
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	46.32	-4.61	41.71	74.00	-32.29	peak		
2	*	2390.000	46.70	-4.27	42.43	74.00	-31.57	peak		

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

<Reference Only

Test Result: Pass

[TestMode:802.11N20-H]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: N20-H		
Note:		

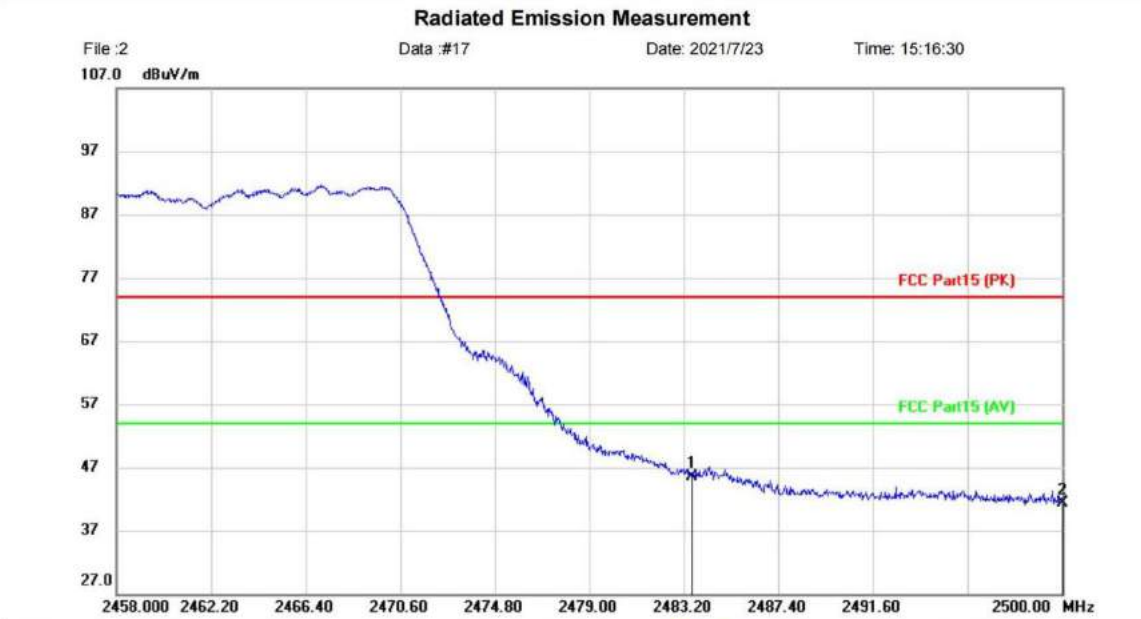
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	2483.500	49.89	-3.84	46.05	74.00	-27.95	peak	
2		2500.000	45.53	-3.78	41.75	74.00	-32.25	peak	

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

<Reference Only

Test Result: Pass

[TestMode:802.11N20-H]; [Polarity: Vertical]



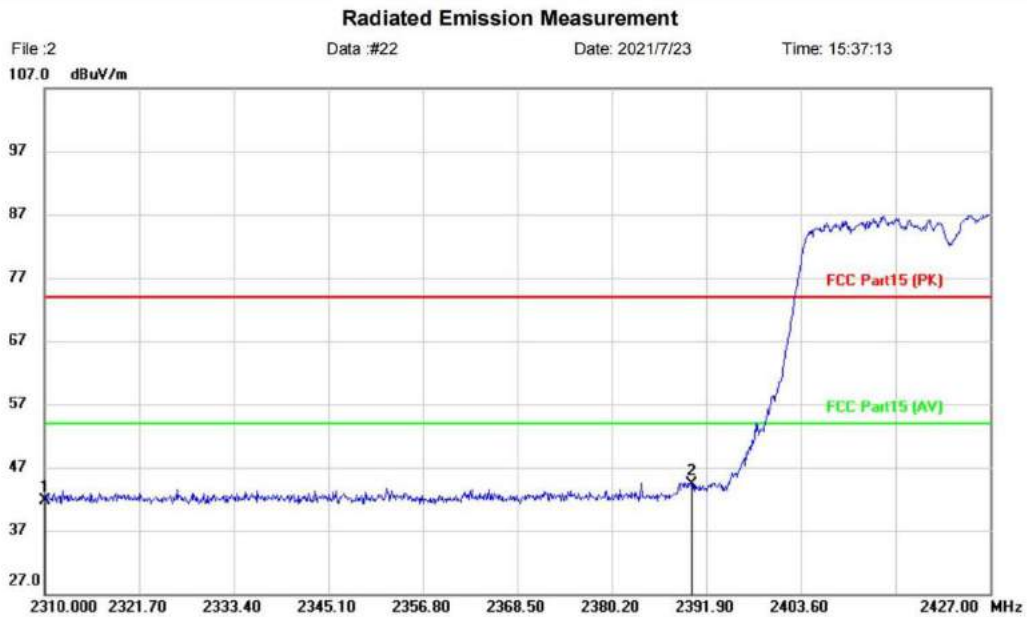
Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: N20-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	*	2483.500	49.42	-3.84	45.58	74.00	-28.42	peak	
2		2500.000	45.01	-3.78	41.23	74.00	-32.77	peak	

*:Maximum data x:Over limit !:over margin <Reference Only

Test Result: Pass

[TestMode: 802.11N40-L]; [Polarity: Horizontal]



Site	Polarization: Horizontal	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: N40-L		
Note:		

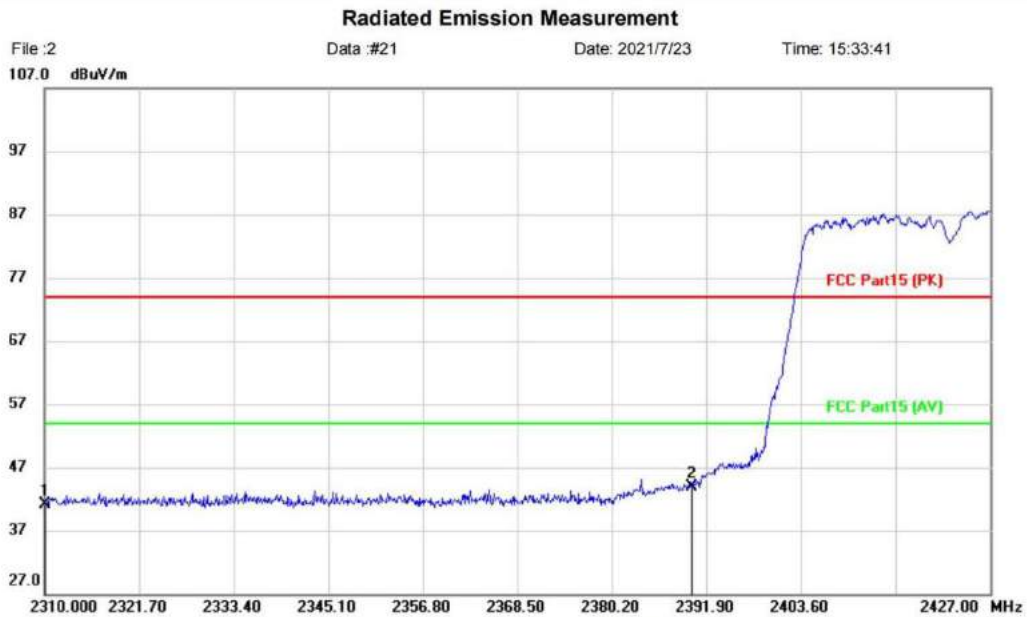
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		2310.000	46.39	-4.61	41.78	74.00	-32.22	peak		
2	*	2390.000	48.64	-4.27	44.37	74.00	-29.63	peak		

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

<Reference Only

Test Result: Pass

[TestMode: 802.11N40-L]; [Polarity: Vertical]



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: N40-L		
Note:		

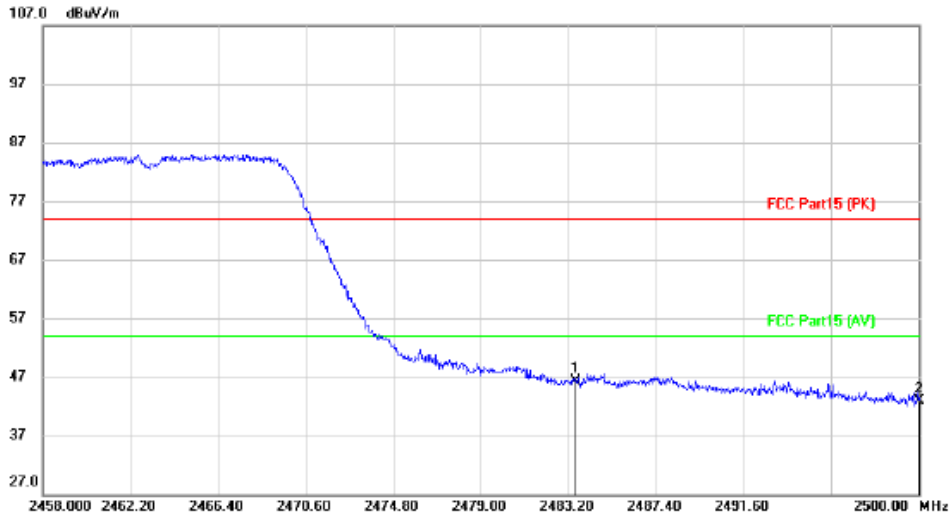
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1		2310.000	45.77	-4.61	41.16	74.00	-32.84	peak	
2	*	2390.000	48.09	-4.27	43.82	74.00	-30.18	peak	

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

<Reference Only

Test Result: Pass

[TestMode: 802.11N40-H]; [Polarity: Horizontal]

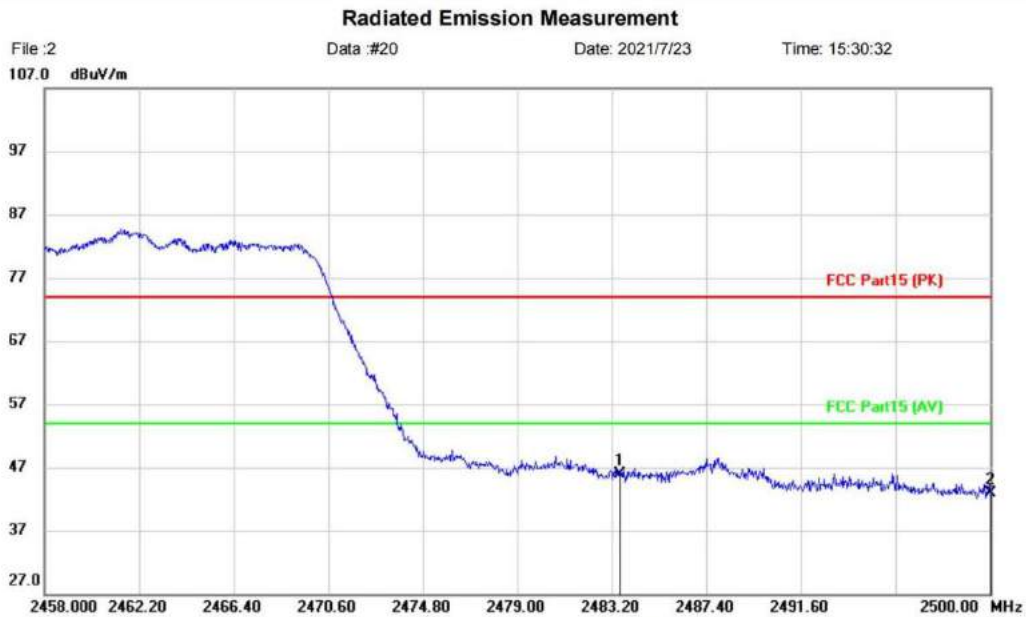


Site	Polarization: <i>Horizontal</i>	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
MN: Tibuta_MasterPad K100		
Mode: N40-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2483.500	50.19	-3.84	46.35	74.00	-27.65	peak		
2		2500.000	46.59	-3.78	42.81	74.00	-31.19	peak		

Test Result: Pass

[TestMode: 802.11N40-H]; [Polarity: Vertical]



Site	Polarization: Vertical	Temperature:
Limit: FCC Part15 (PK)	Power:	Humidity: %
EUT: Tablet PC	Distance:	
M/N: Tibuta_MasterPad K100		
Mode: N40-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1	*	2483.500	49.69	-3.84	45.85	74.00	-28.15	peak		
2		2500.000	46.59	-3.78	42.81	74.00	-31.19	peak		

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

<Reference Only

Test Result: Pass

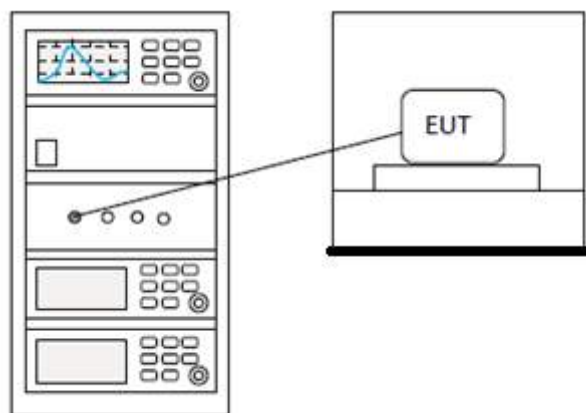
12 CONDUCTED SPURIOUS EMISSIONS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Sven
Temperature	25°C
Humidity	52%

12.1 LIMITS

Limit:	<p>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)).</p>
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12.2 BLOCK DIAGRAM OF TEST SETUP



12.3 TEST DATA

Pass: Please Refer To Appendix: For Details

BlueAsia

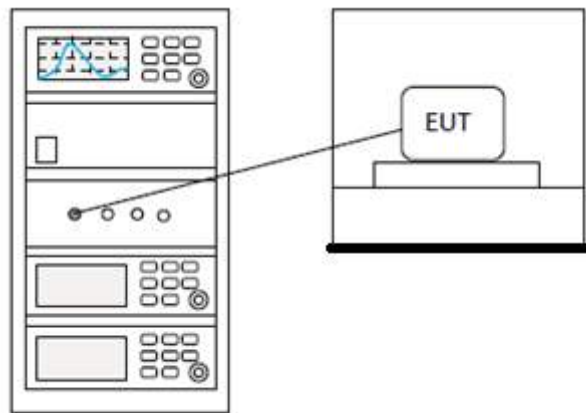
13 CONDUCTED BAND EDGES MEASUREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Sven
Temperature	25°C
Humidity	52%

13.1 LIMITS

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)).
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13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 TEST DATA

Pass: Please Refer To Appendix: For Details

BlueAsia

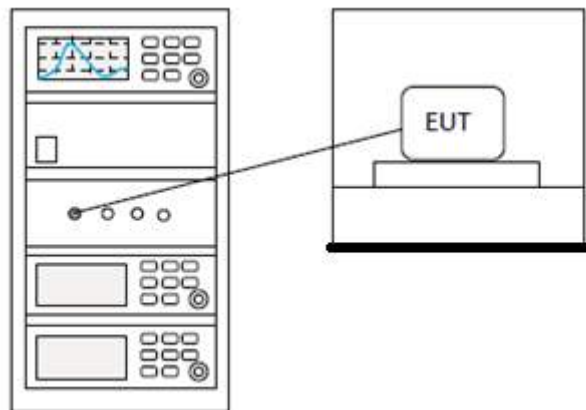
14 POWER SPECTRUM DENSITY

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Sven
Temperature	25°C
Humidity	52%

14.1 LIMITS

Limit:	$\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission
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14.2 BLOCK DIAGRAM OF TEST SETUP



14.3 TEST DATA

Pass: Please Refer To Appendix: For Details
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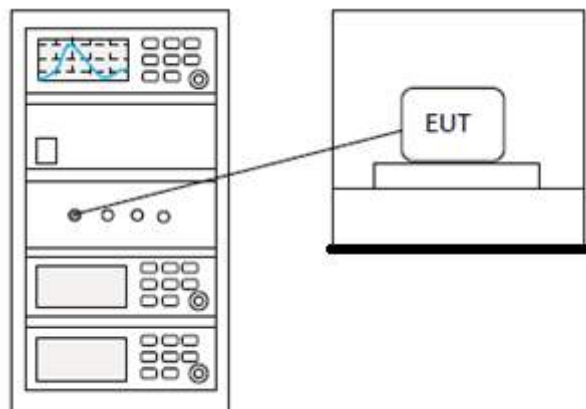
15 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5 & Section 11.9.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Sven
Temperature	25°C
Humidity	52%

15.1 LIMITS

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

15.2 BLOCK DIAGRAM OF TEST SETUP



15.3 TEST DATA

Pass: Please Refer To Appendix: For Details

BlueAsia

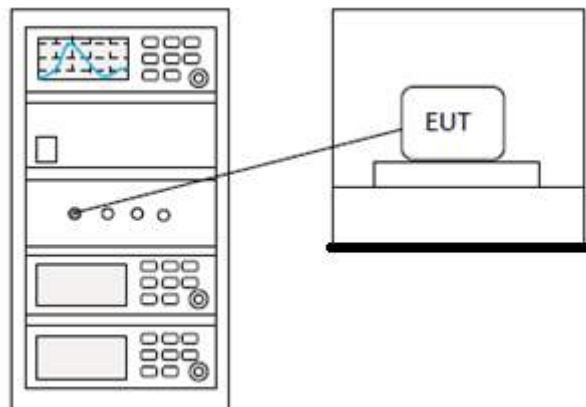
16 MINIMUM 6DB BANDWIDTH

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Sven
Temperature	25°C
Humidity	52%

16.1 LIMITS

Limit:	≥500 kHz
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16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 TEST DATA

Pass: Please Refer To Appendix: For Details

17 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

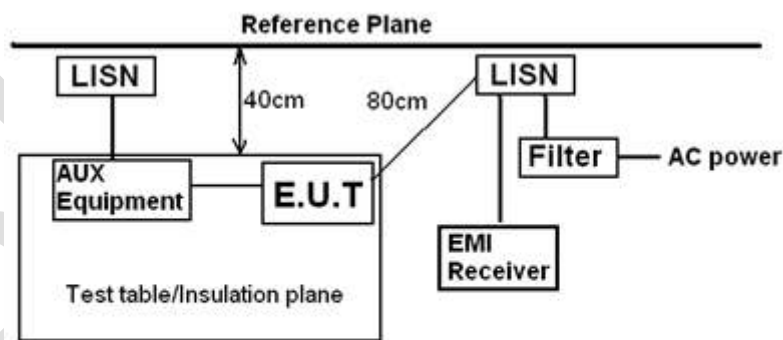
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Sven
Temperature	25°C
Humidity	52%

17.1 LIMITS

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.

17.2 BLOCK DIAGRAM OF TEST SETUP



Remark:
 E.U.T: Equipment Under Test
 LISN: Line Impedance Stabilization Network
 Test table height=0.8m

17.3 PROCEDURE

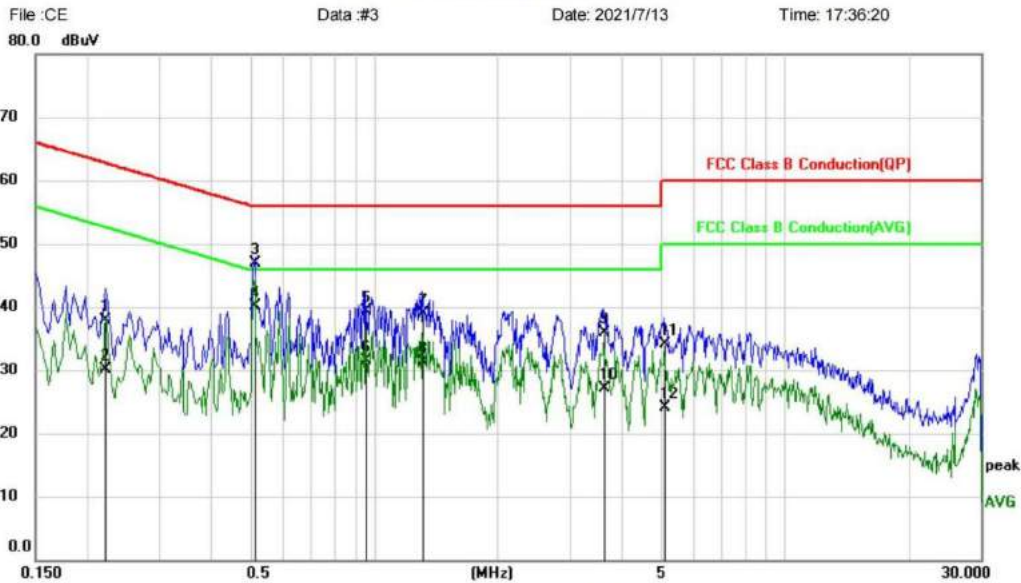
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to 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

BlueAsia

[TestMode: TX]; [Line: Neutral]

AC 120V 60Hz

Conducted Emission Measurement


Site: Phase: **N** Temperature:
 Limit: FCC Class B Conduction(QP) Power: Humidity: %
 EUT: Tablet PC
 M/N: Tibuta_MasterPad_K100
 Mode: working mode
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2220	28.14	9.75	37.89	62.74	-24.85	QP	
2		0.2220	20.35	9.75	30.10	52.74	-22.64	AVG	
3		0.5140	37.09	9.79	46.88	56.00	-9.12	QP	
4	*	0.5140	30.29	9.79	40.08	46.00	-5.92	AVG	
5		0.9580	29.39	9.84	39.23	56.00	-16.77	QP	
6		0.9580	21.60	9.84	31.44	46.00	-14.56	AVG	
7		1.3140	29.08	9.85	38.93	56.00	-17.07	QP	
8		1.3140	21.36	9.85	31.21	46.00	-14.79	AVG	
9		3.6340	26.00	9.91	35.91	56.00	-20.09	QP	
10		3.6340	17.22	9.91	27.13	46.00	-18.87	AVG	
11		5.0900	24.22	9.95	34.17	60.00	-25.83	QP	
12		5.0900	14.16	9.95	24.11	50.00	-25.89	AVG	

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

(Reference Only)

Test Result: Pass

18 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

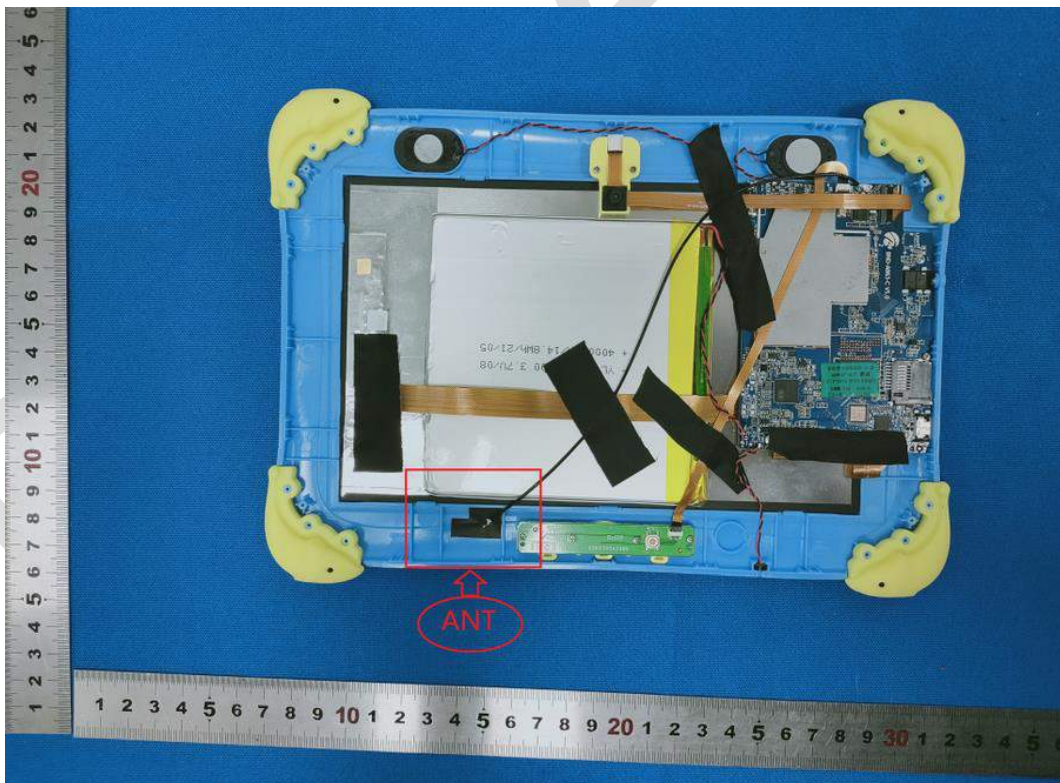
18.1 CONCLUSION

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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.53 dBi.

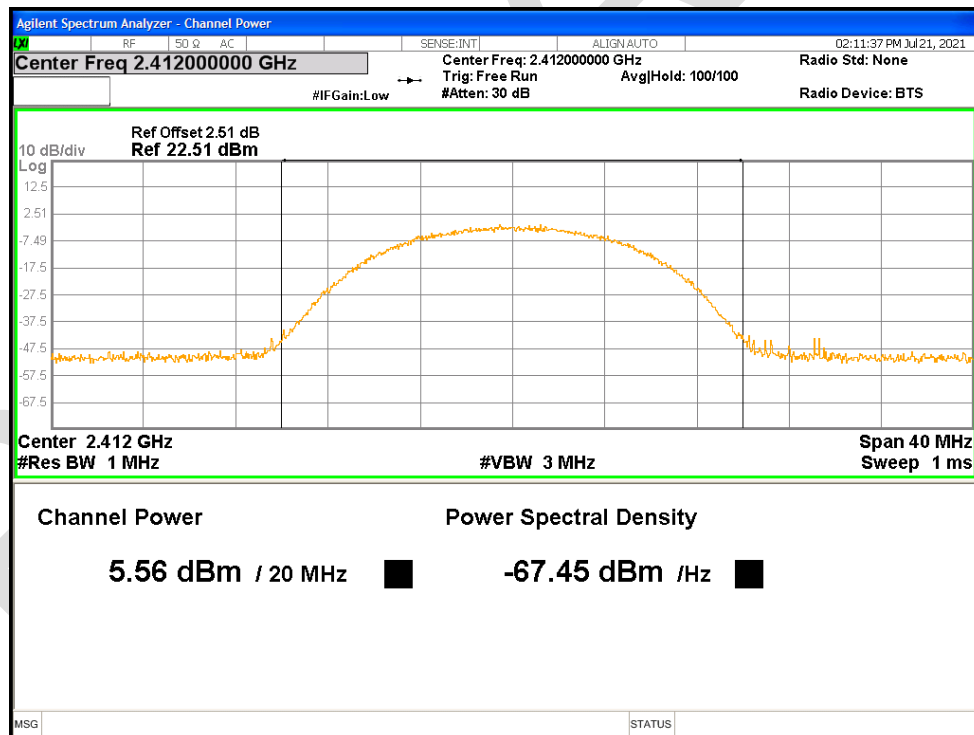


19 APPENDIX

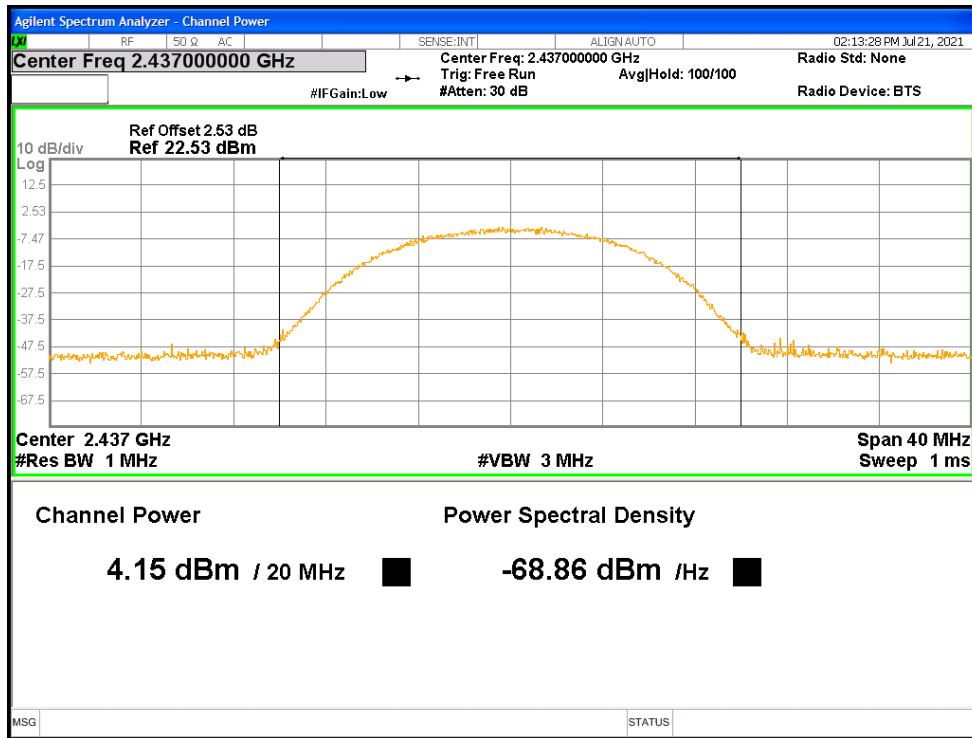
19.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	5.558	5.558	30	Pass
NVNT	b	2437	Ant1	4.146	4.146	30	Pass
NVNT	b	2462	Ant1	5.02	5.02	30	Pass
NVNT	g	2412	Ant1	6.078	6.078	30	Pass
NVNT	g	2437	Ant1	5.141	5.141	30	Pass
NVNT	g	2462	Ant1	5.544	5.544	30	Pass
NVNT	n20	2412	Ant1	6.259	6.259	30	Pass
NVNT	n20	2437	Ant1	5.292	5.292	30	Pass
NVNT	n20	2462	Ant1	5.703	5.703	30	Pass
NVNT	n40	2422	Ant1	5.998	5.998	30	Pass
NVNT	n40	2437	Ant1	5.195	5.195	30	Pass
NVNT	n40	2452	Ant1	5.84	8.7	30	Pass

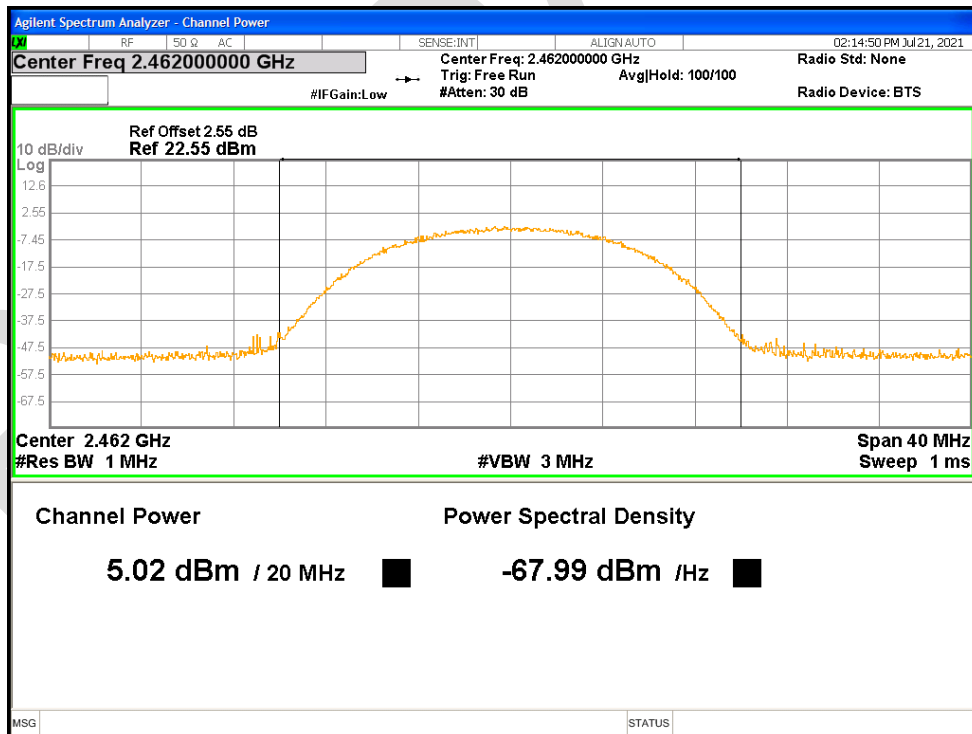
Power NVNT b 2412MHz Ant1



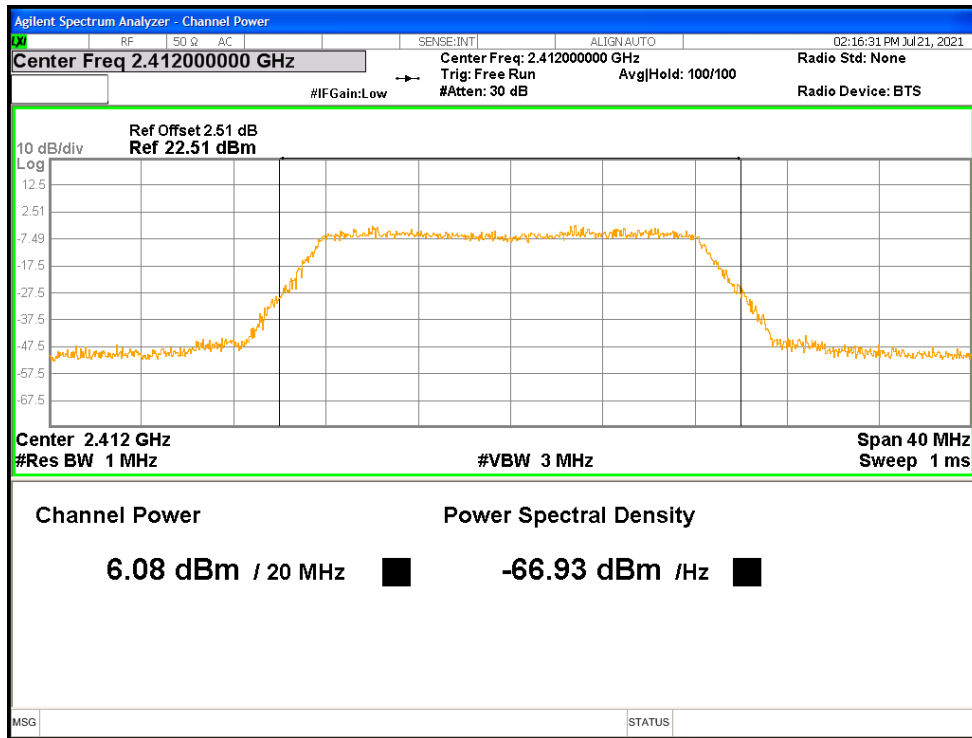
Power NVNT b 2437MHz Ant1



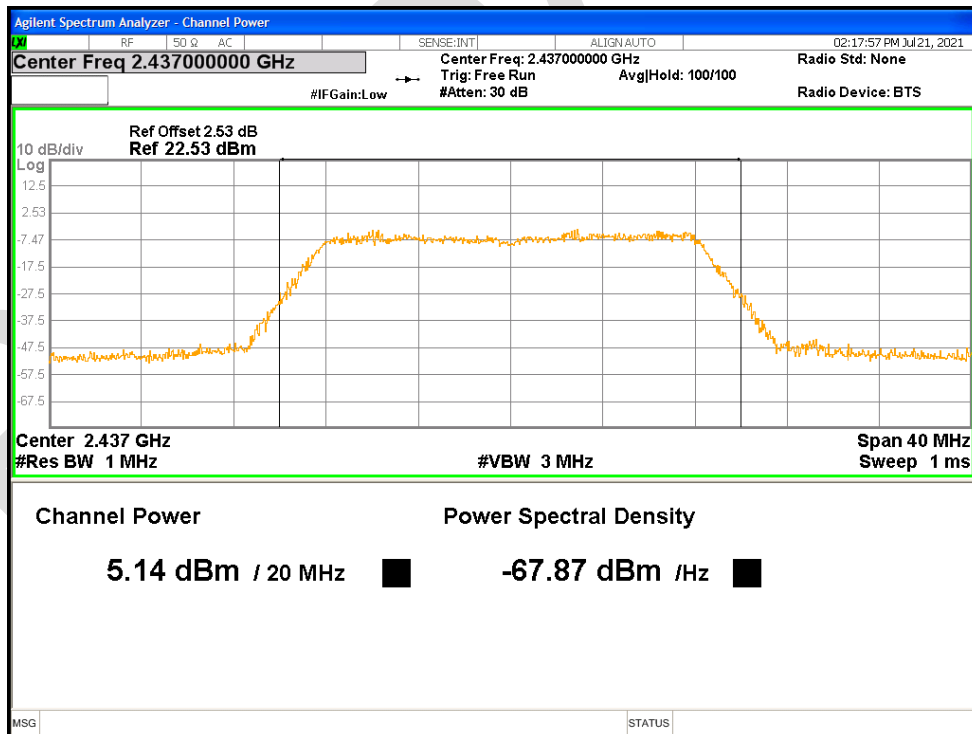
Power NVNT b 2462MHz Ant1



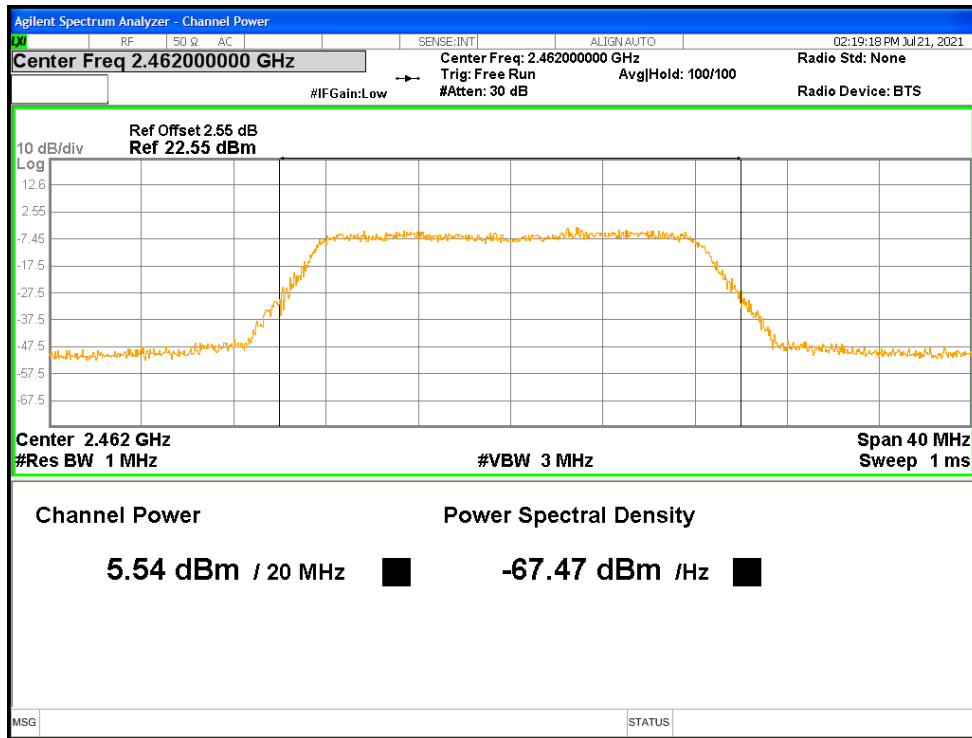
Power NVNT g 2412MHz Ant1



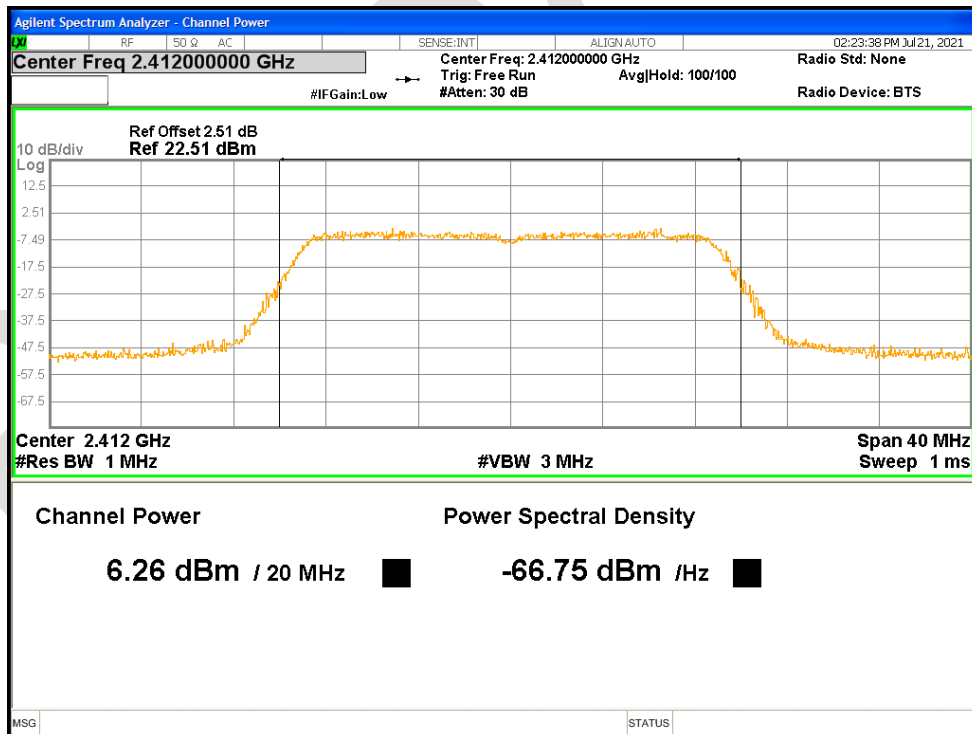
Power NVNT g 2437MHz Ant1



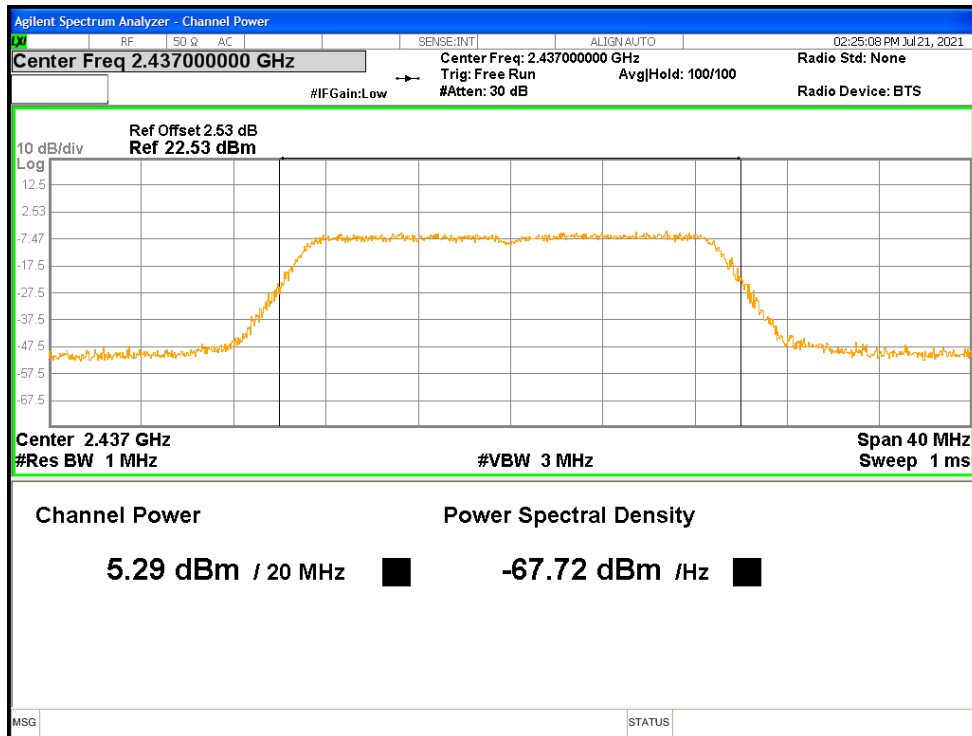
Power NVNT g 2462MHz Ant1



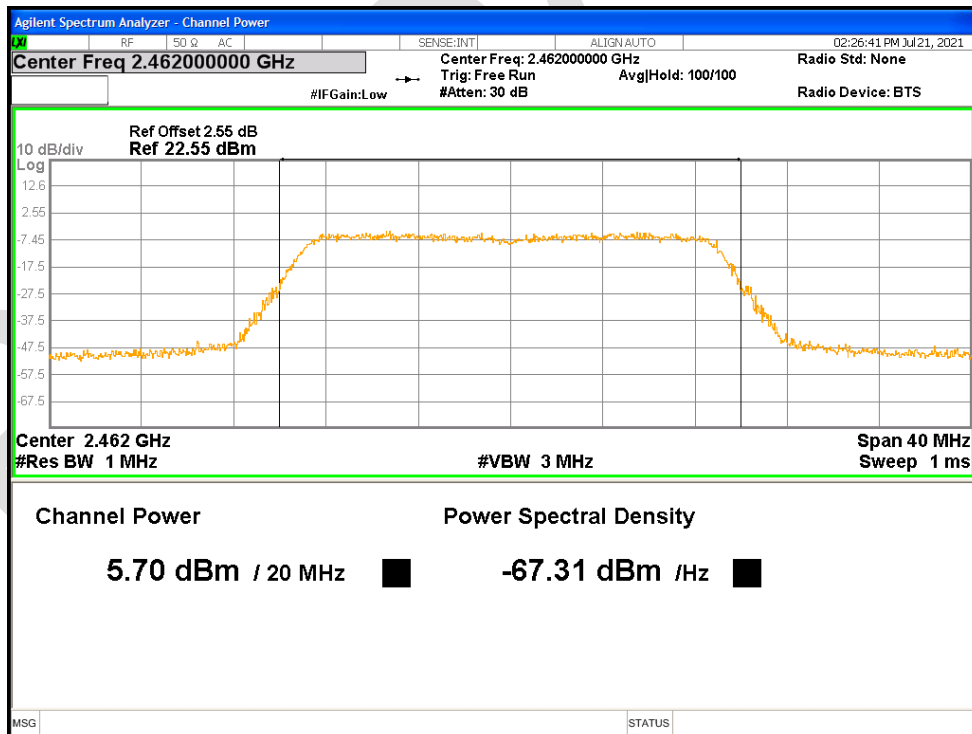
Power NVNT n20 2412MHz Ant1



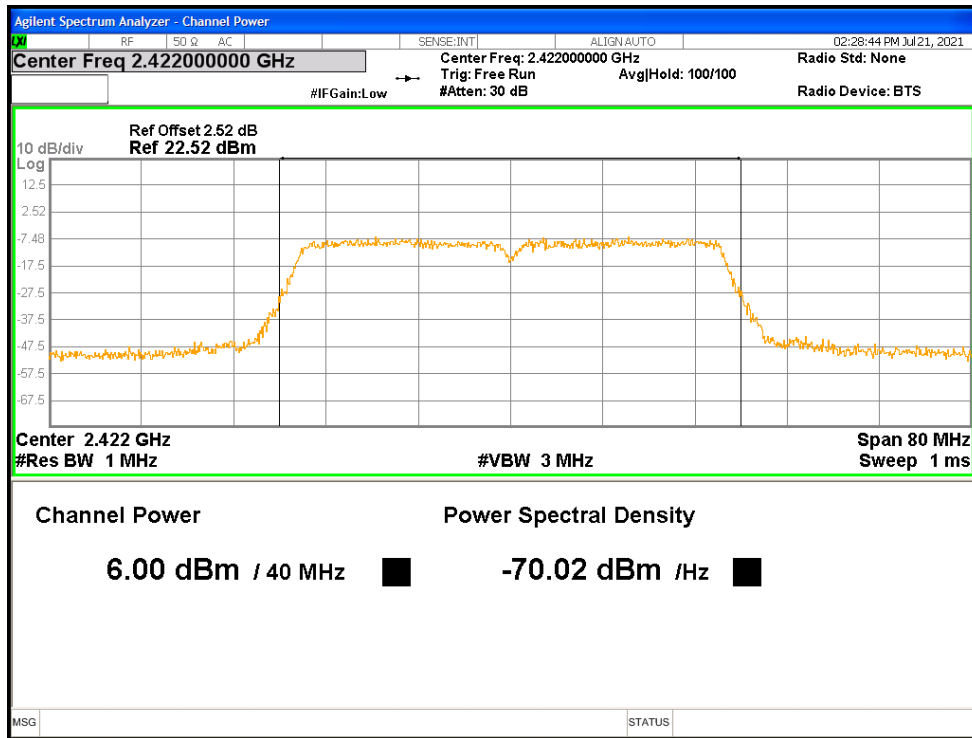
Power NVNT n20 2437MHz Ant1



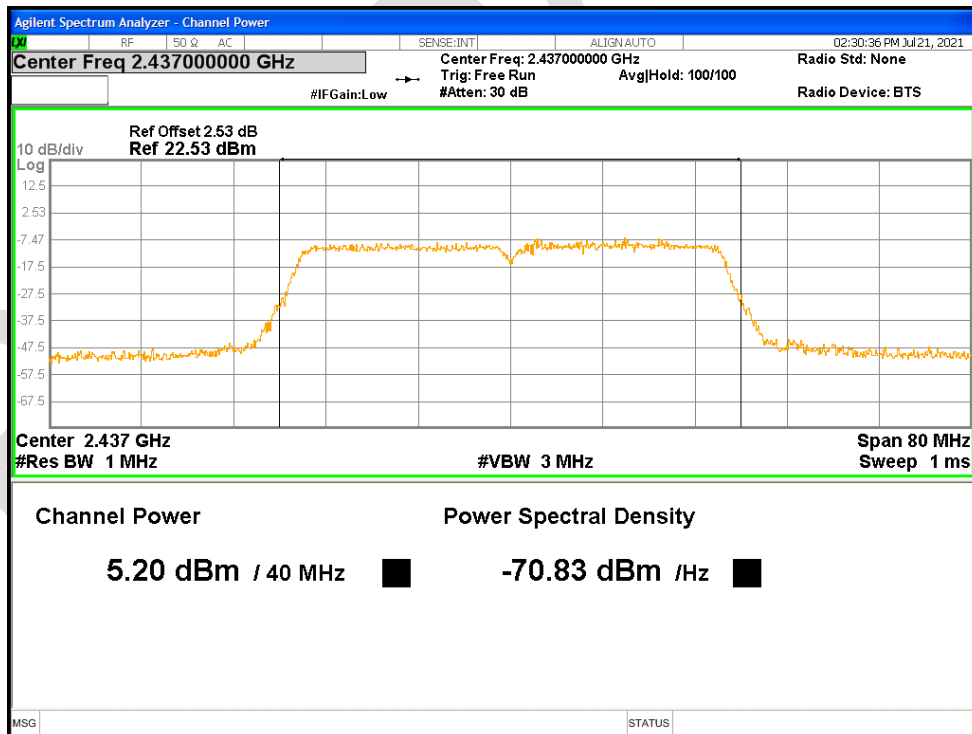
Power NVNT n20 2462MHz Ant1



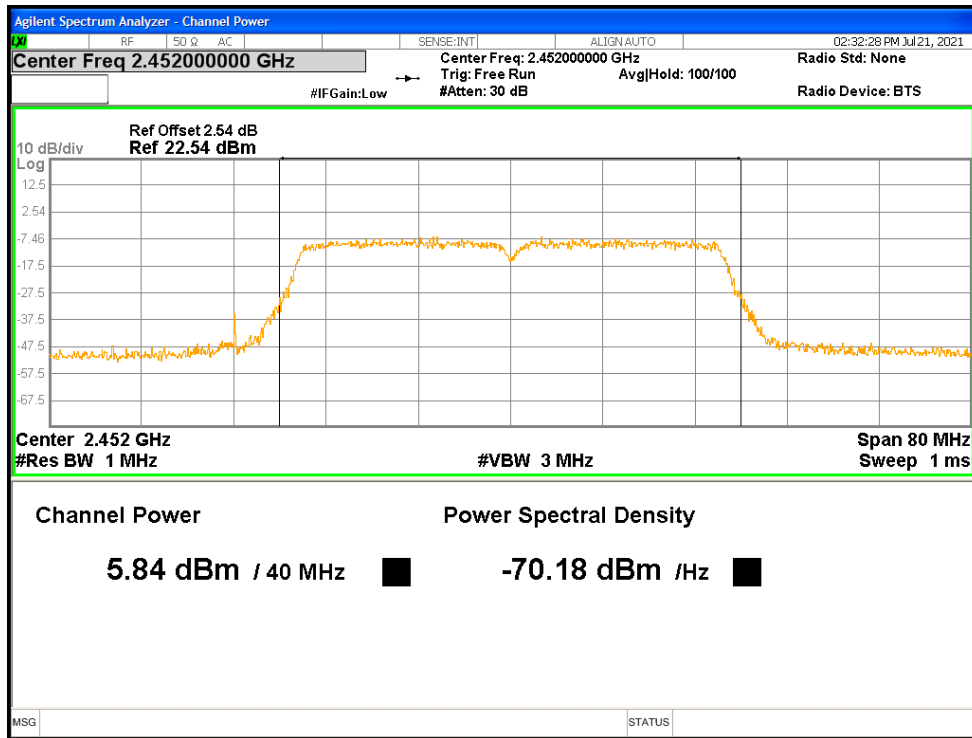
Power NVNT n40 2422MHz Ant1



Power NVNT n40 2437MHz Ant1



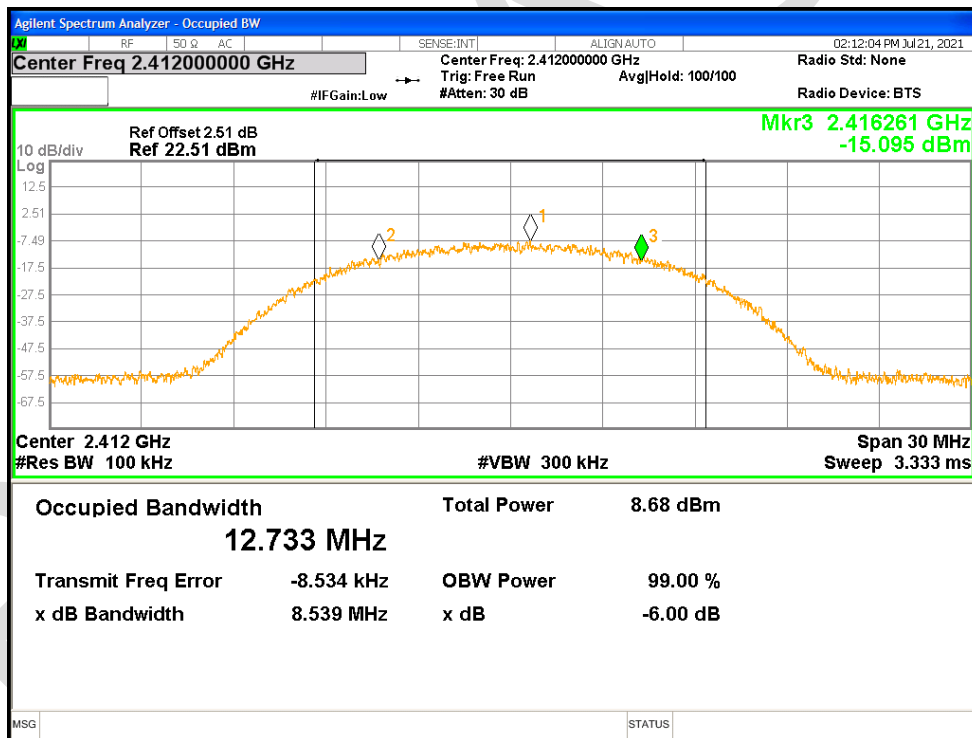
Power NVNT n40 2452MHz Ant1



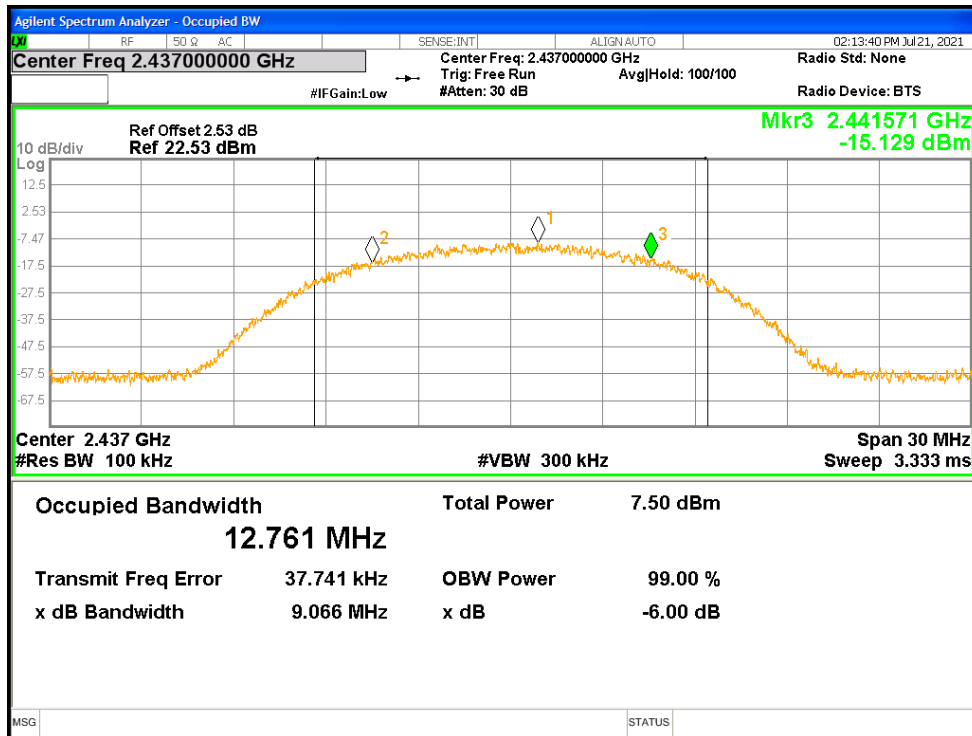
19.2 -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.539	0.5	Pass
NVNT	b	2437	Ant1	9.066	0.5	Pass
NVNT	b	2462	Ant1	9.027	0.5	Pass
NVNT	g	2412	Ant1	16.3	0.5	Pass
NVNT	g	2437	Ant1	16.409	0.5	Pass
NVNT	g	2462	Ant1	16.347	0.5	Pass
NVNT	n20	2412	Ant1	17.64	0.5	Pass
NVNT	n20	2437	Ant1	17.634	0.5	Pass
NVNT	n20	2462	Ant1	17.591	0.5	Pass
NVNT	n40	2422	Ant1	36.373	0.5	Pass
NVNT	n40	2437	Ant1	36.36	0.5	Pass
NVNT	n40	2452	Ant1	36.301	0.5	Pass

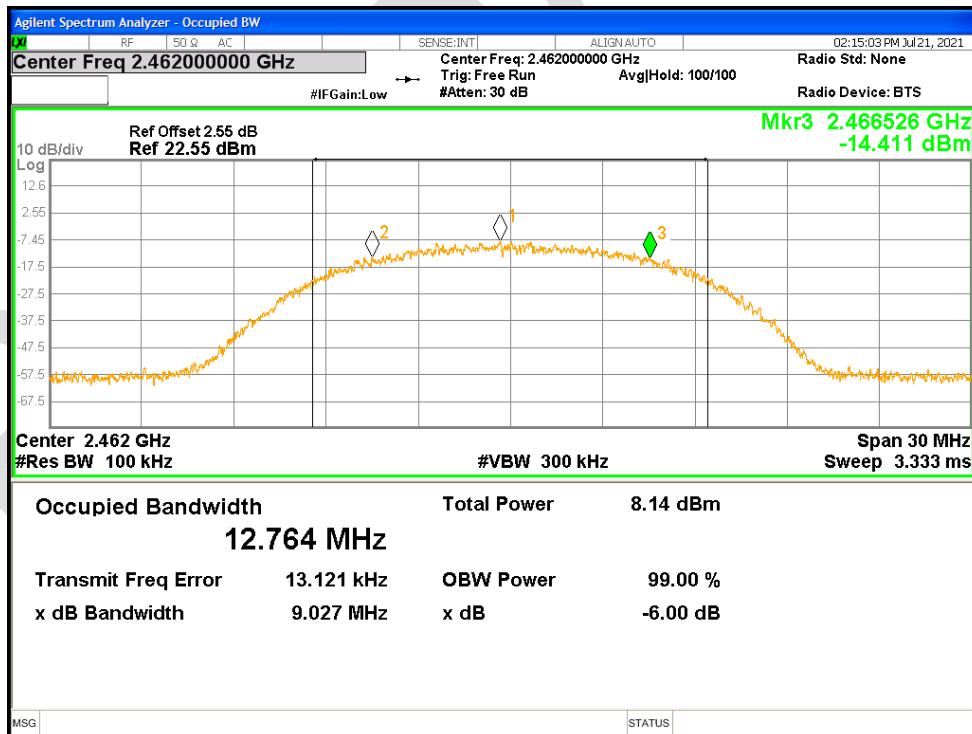
-6dB Bandwidth NVNT b 2412MHz Ant1



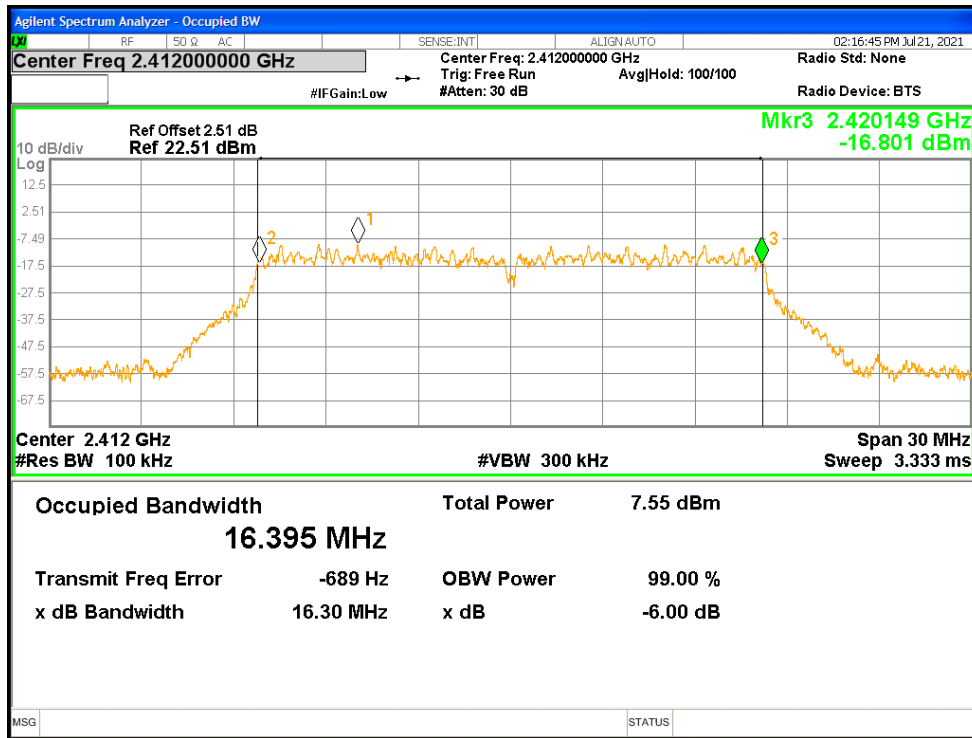
-6dB Bandwidth NVNT b 2437MHz Ant1



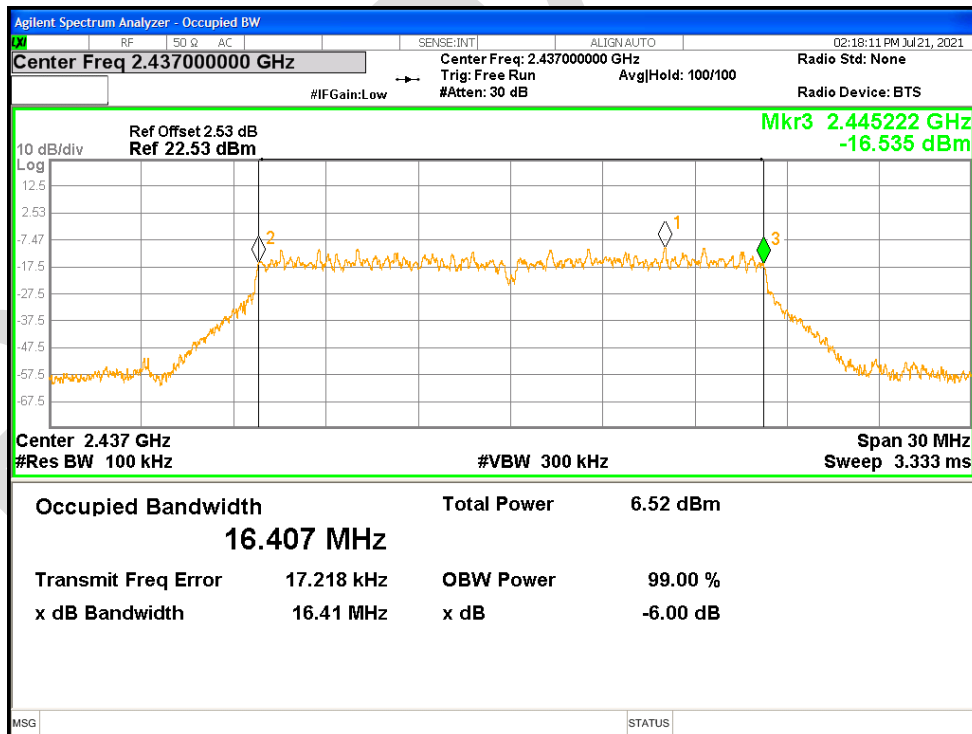
-6dB Bandwidth NVNT b 2462MHz Ant1



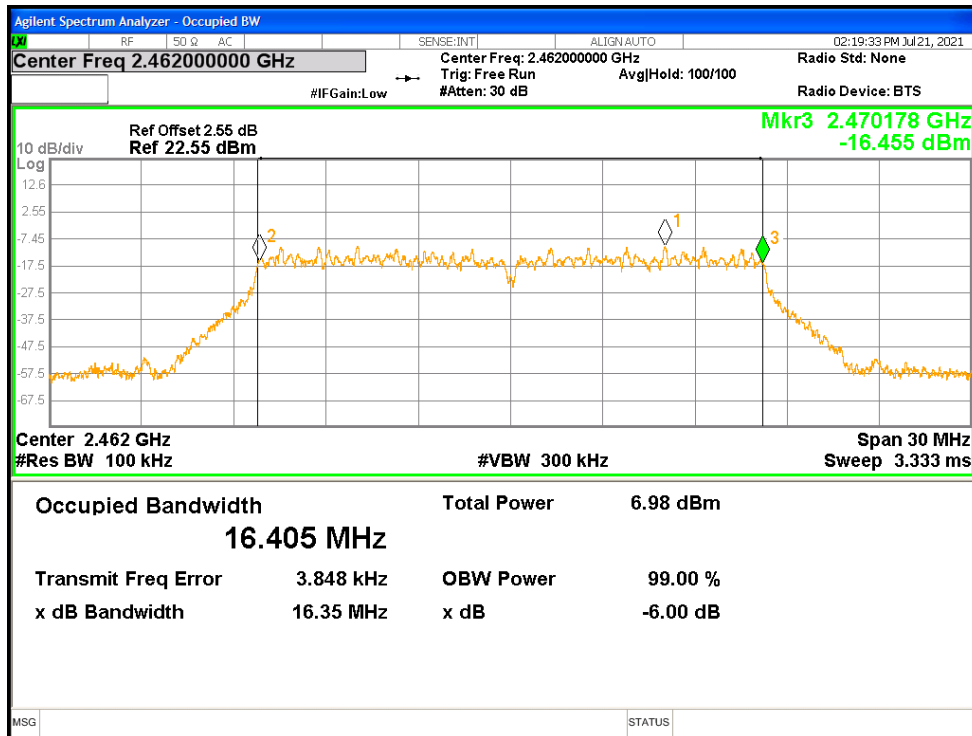
-6dB Bandwidth NVNT g 2412MHz Ant1



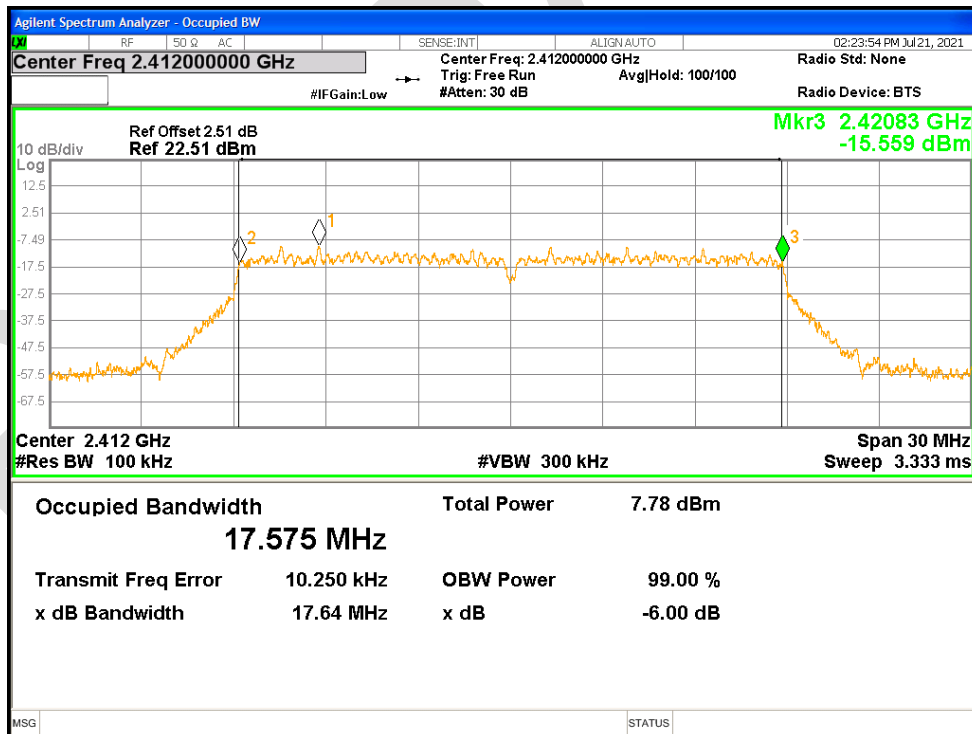
-6dB Bandwidth NVNT g 2437MHz Ant1



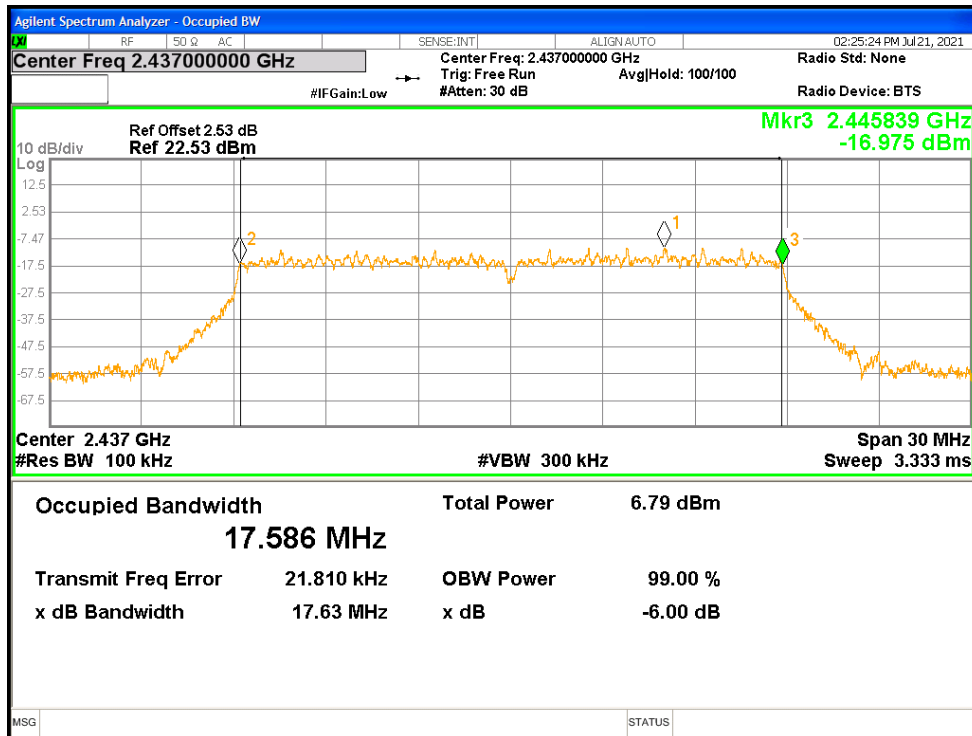
-6dB Bandwidth NVNT g 2462MHz Ant1



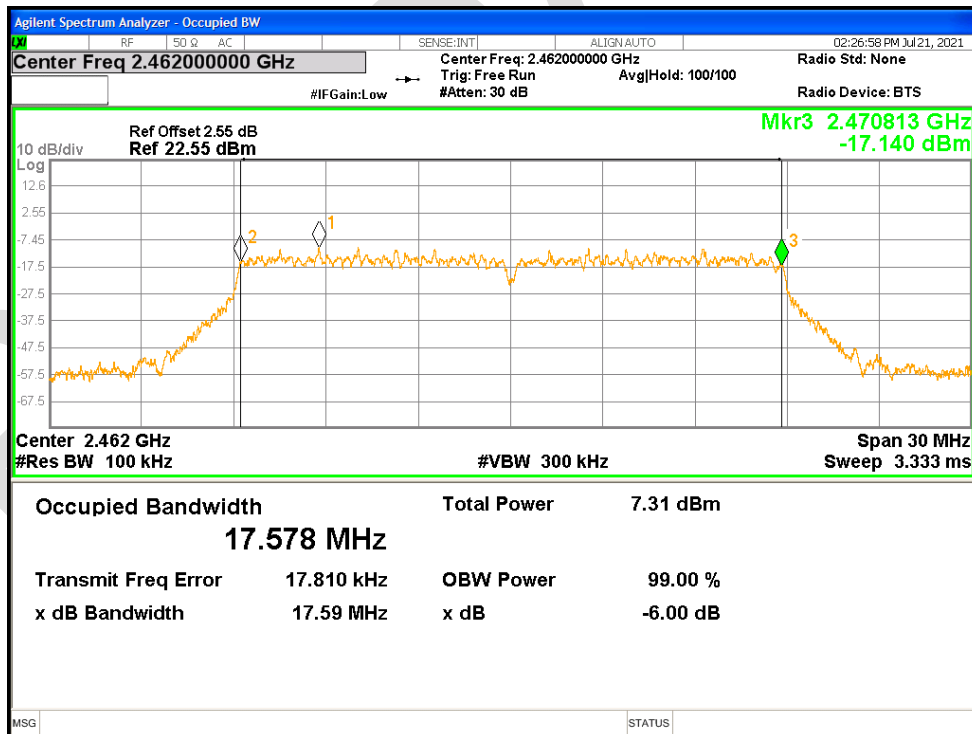
-6dB Bandwidth NVNT n20 2412MHz Ant1



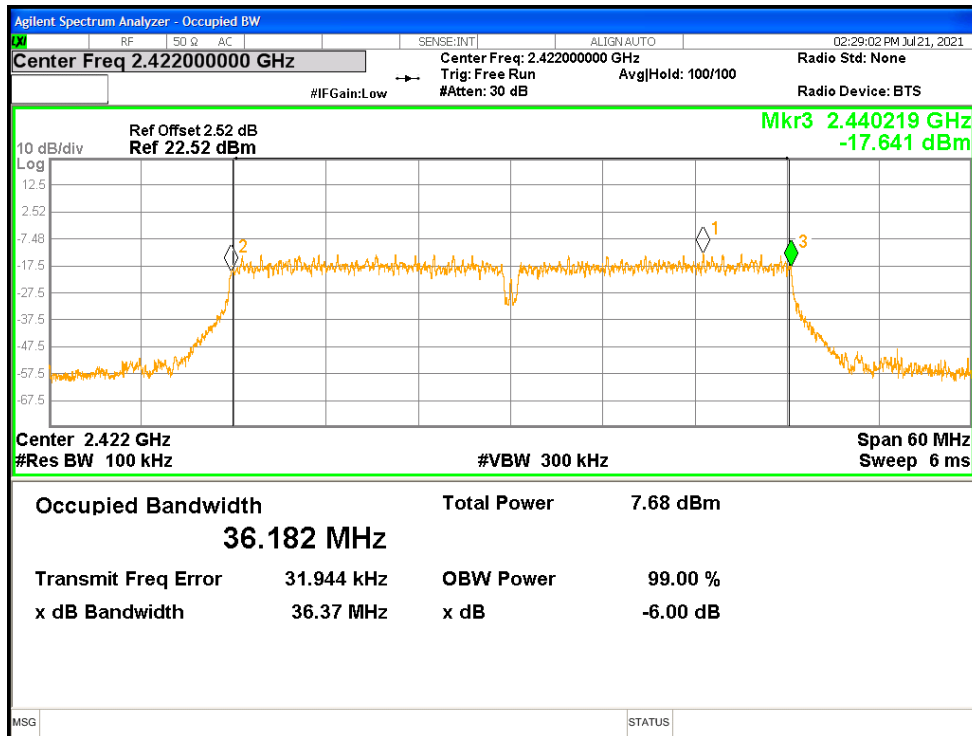
-6dB Bandwidth NVNT n20 2437MHz Ant1



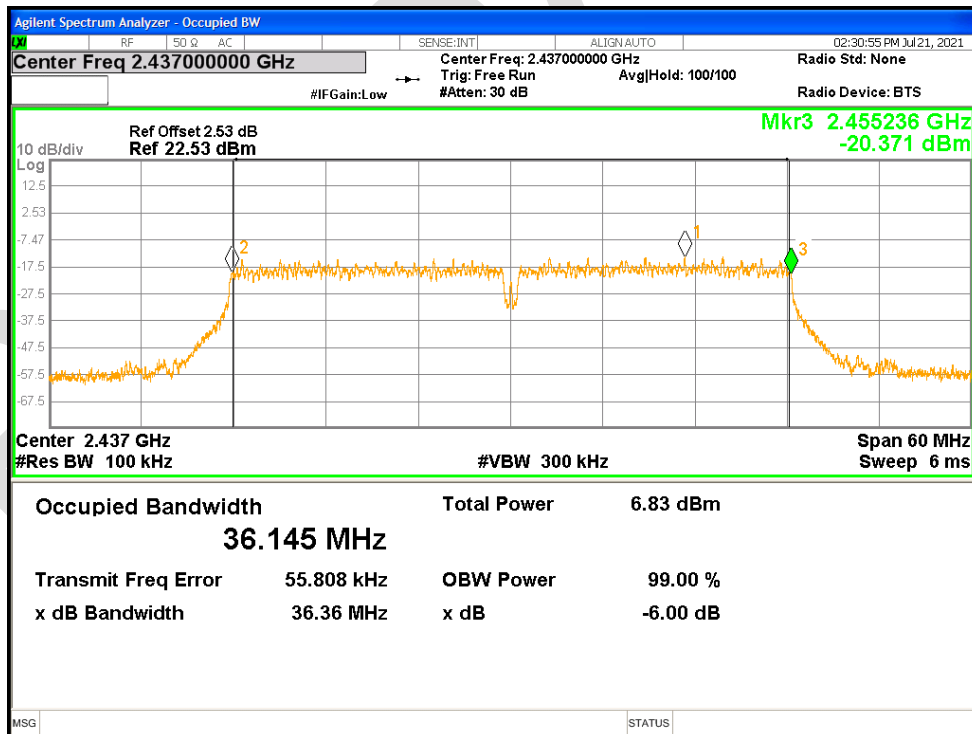
-6dB Bandwidth NVNT n20 2462MHz Ant1



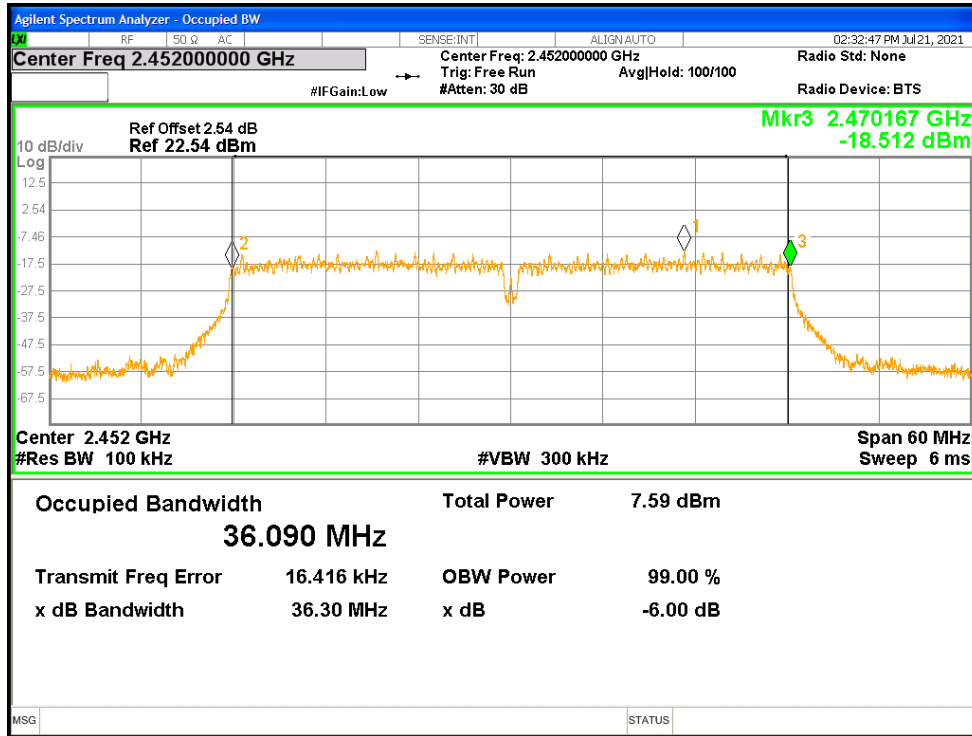
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



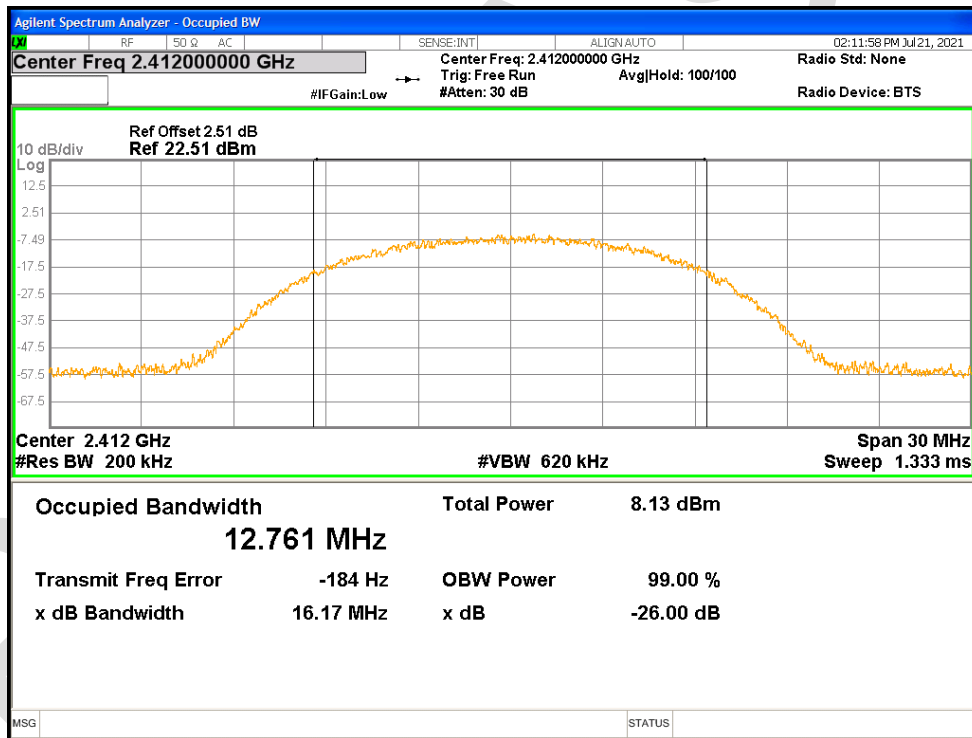
-6dB Bandwidth NVNT n40 2452MHz Ant1



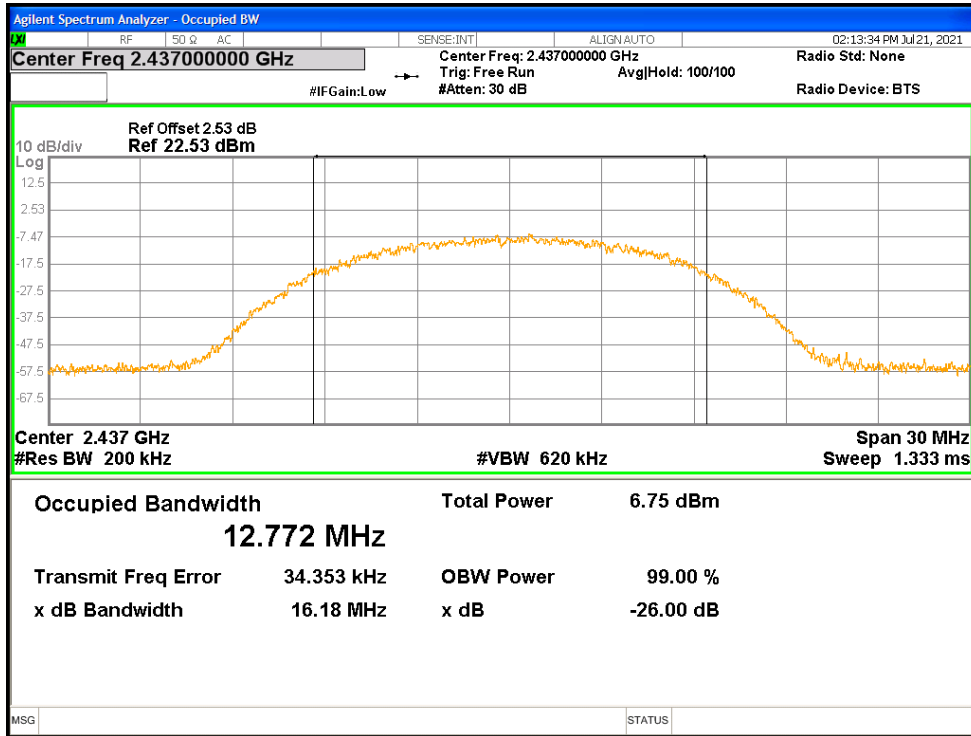
19.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.76089746
NVNT	b	2437	Ant1	12.77238063
NVNT	b	2462	Ant1	12.7620507
NVNT	g	2412	Ant1	16.46976452
NVNT	g	2437	Ant1	16.44682738
NVNT	g	2462	Ant1	16.49036023
NVNT	n20	2412	Ant1	17.61629928
NVNT	n20	2437	Ant1	17.6105002
NVNT	n20	2462	Ant1	17.6287951
NVNT	n40	2422	Ant1	36.28913325
NVNT	n40	2437	Ant1	36.17943121
NVNT	n40	2452	Ant1	36.17938528

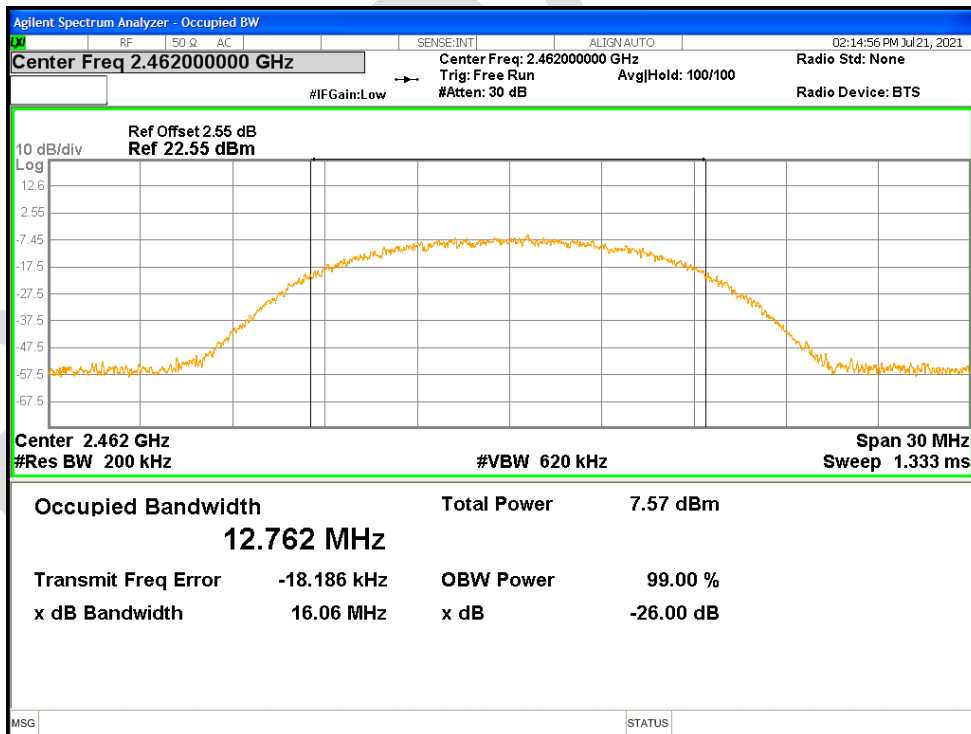
OBW NVNT b 2412MHz Ant1



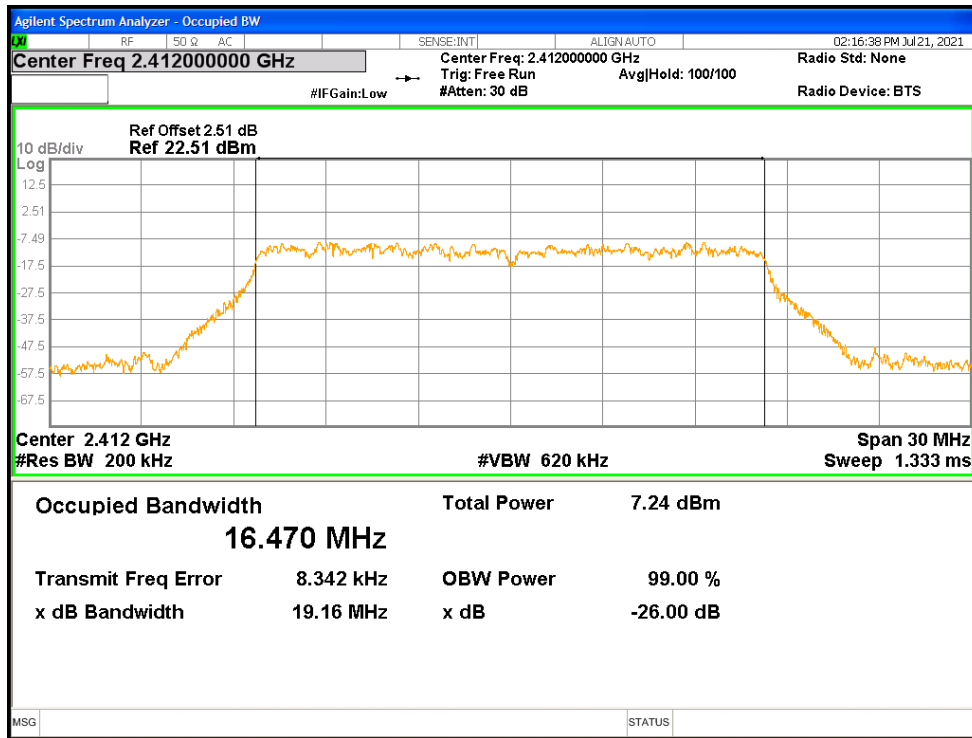
OBW NVNT b 2437MHz Ant1



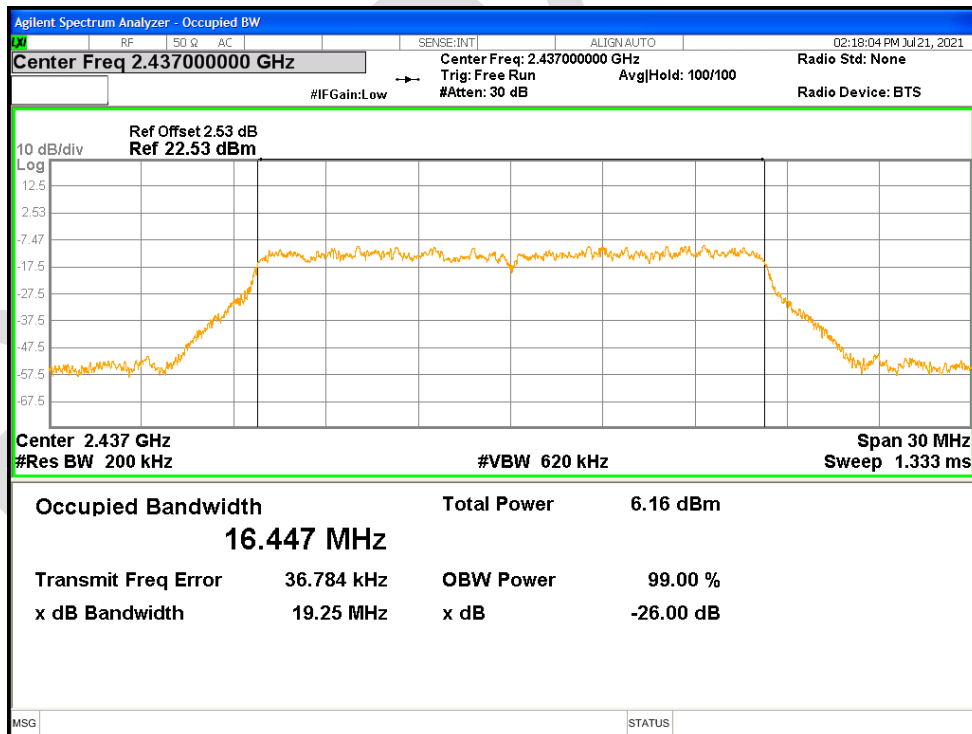
OBW NVNT b 2462MHz Ant1



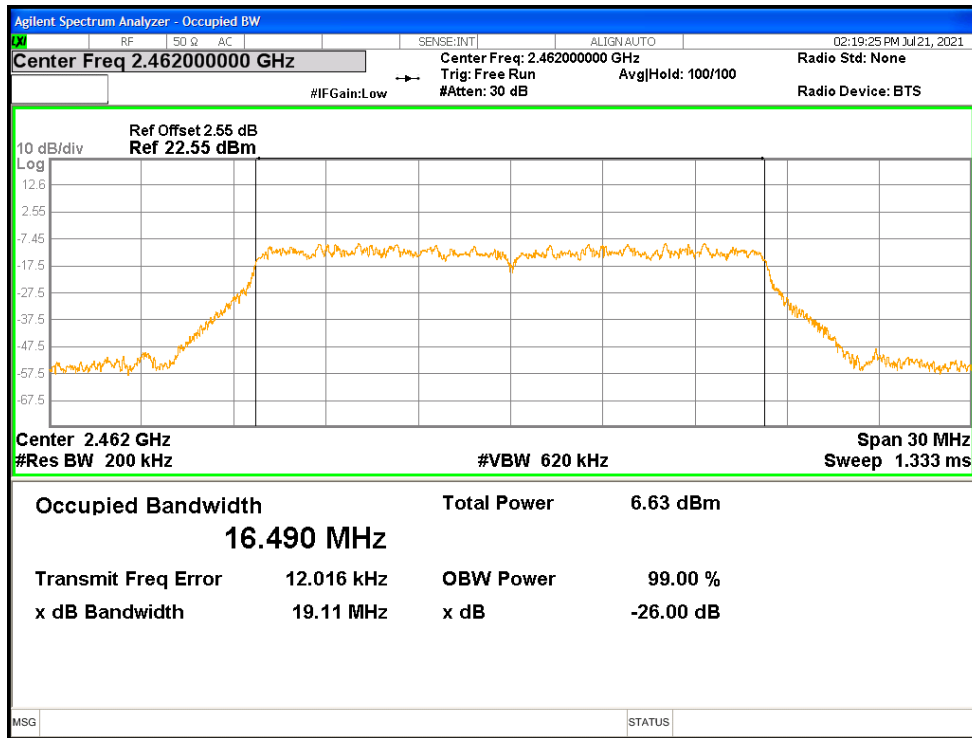
OBW NVNT g 2412MHz Ant1



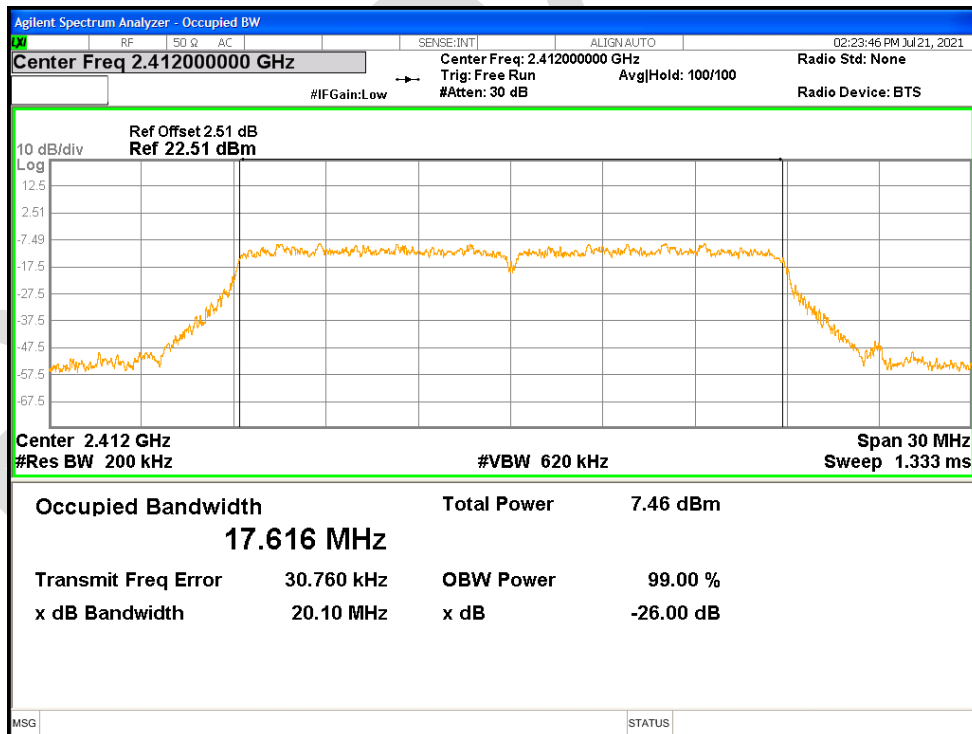
OBW NVNT g 2437MHz Ant1



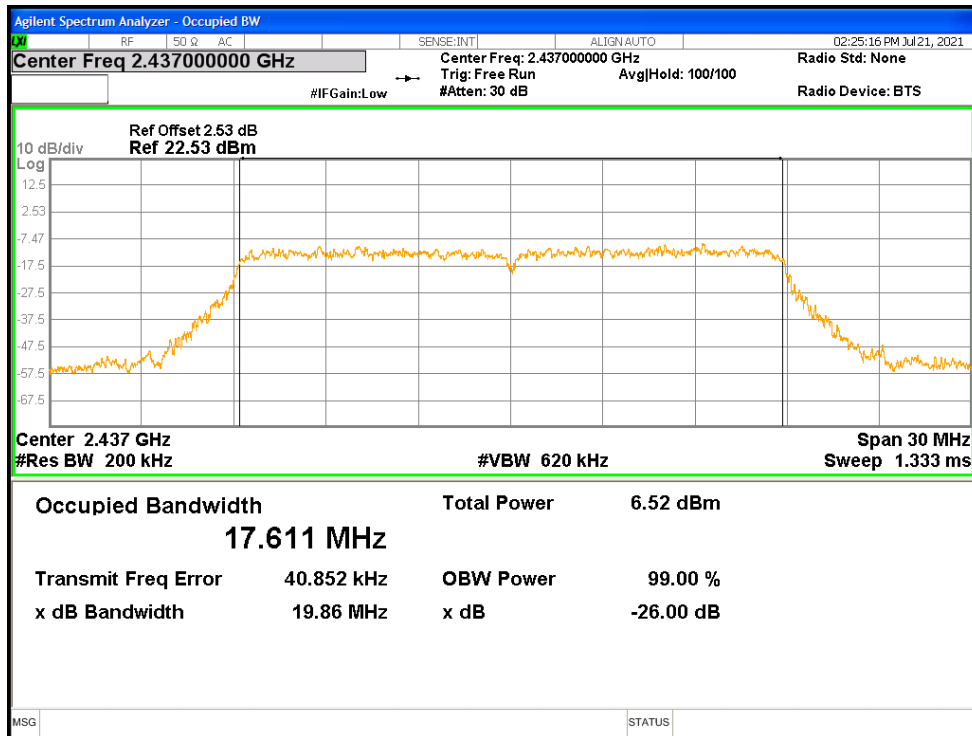
OBW NVNT g 2462MHz Ant1



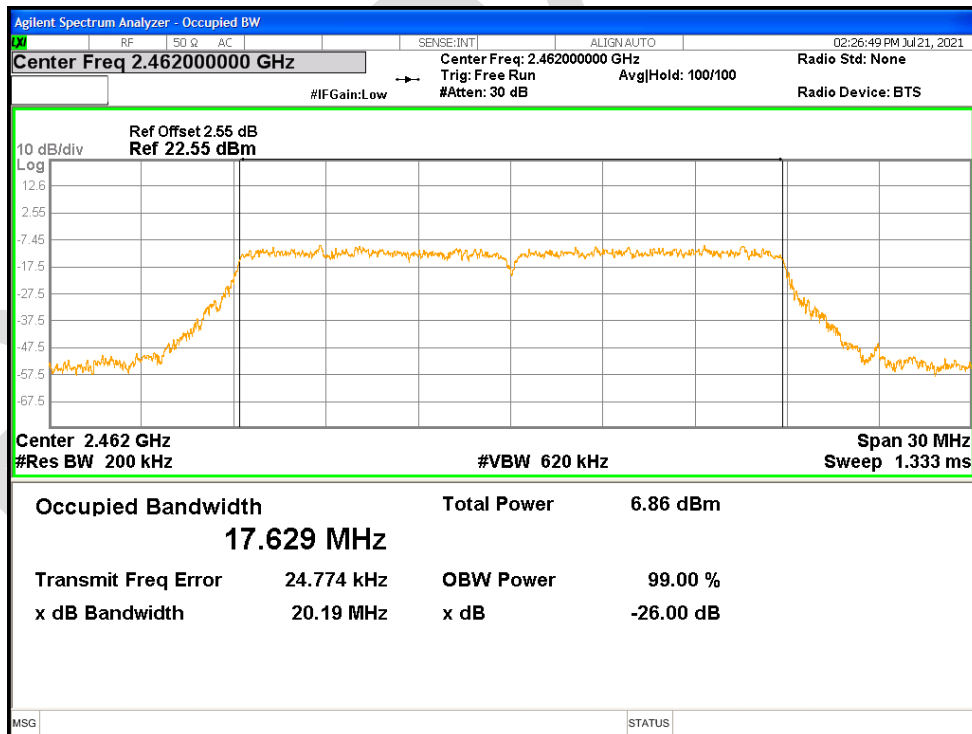
OBW NVNT n20 2412MHz Ant1



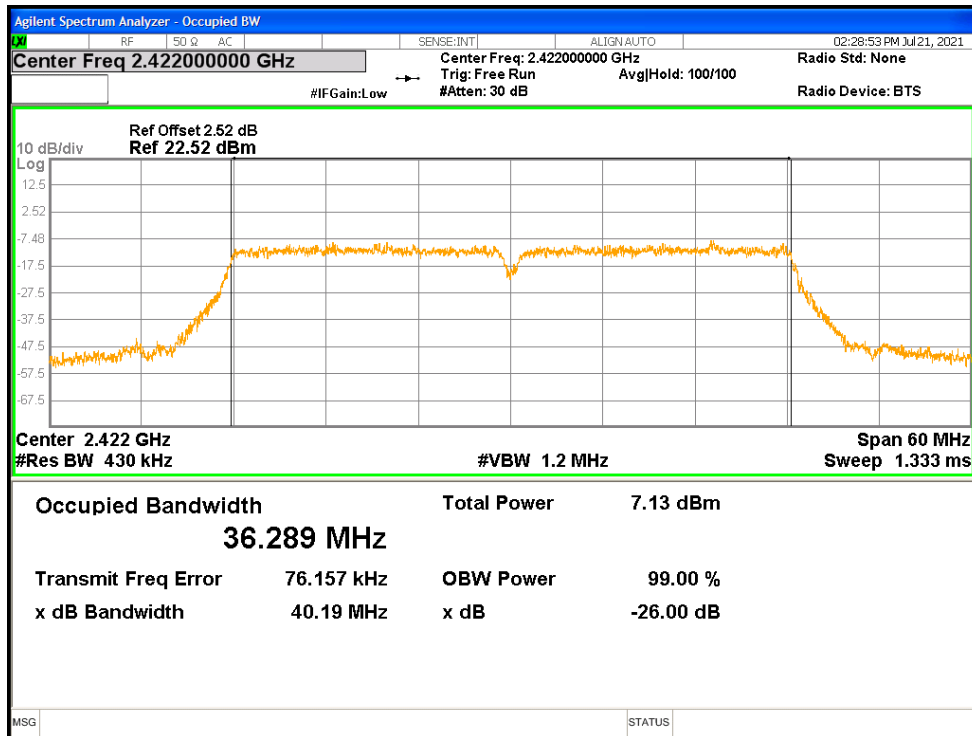
OBW NVNT n20 2437MHz Ant1



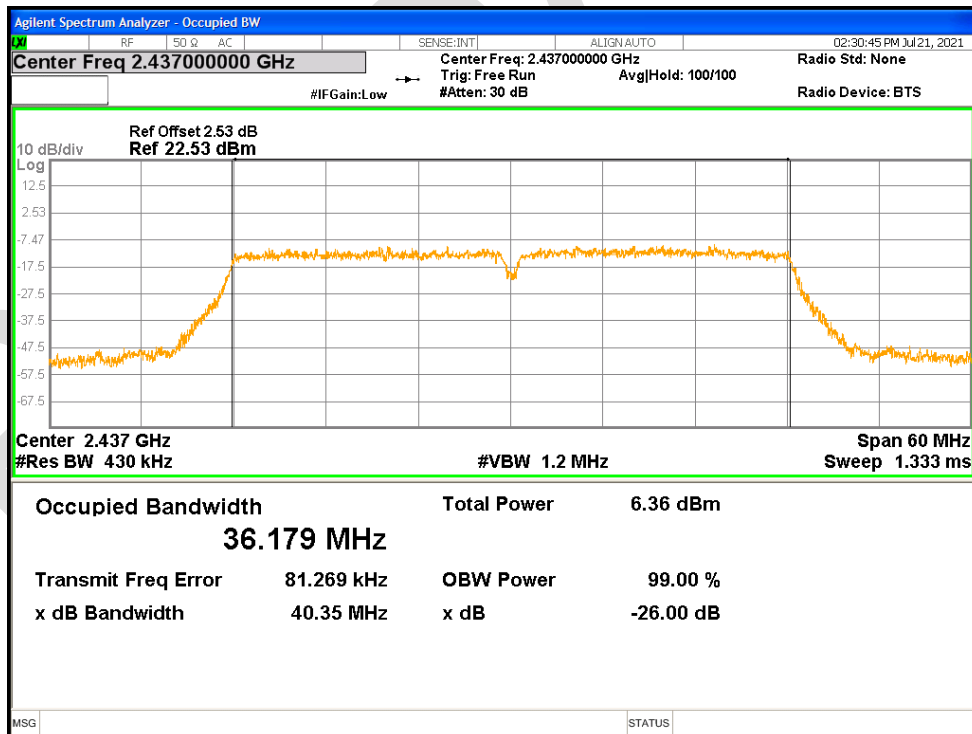
OBW NVNT n20 2462MHz Ant1



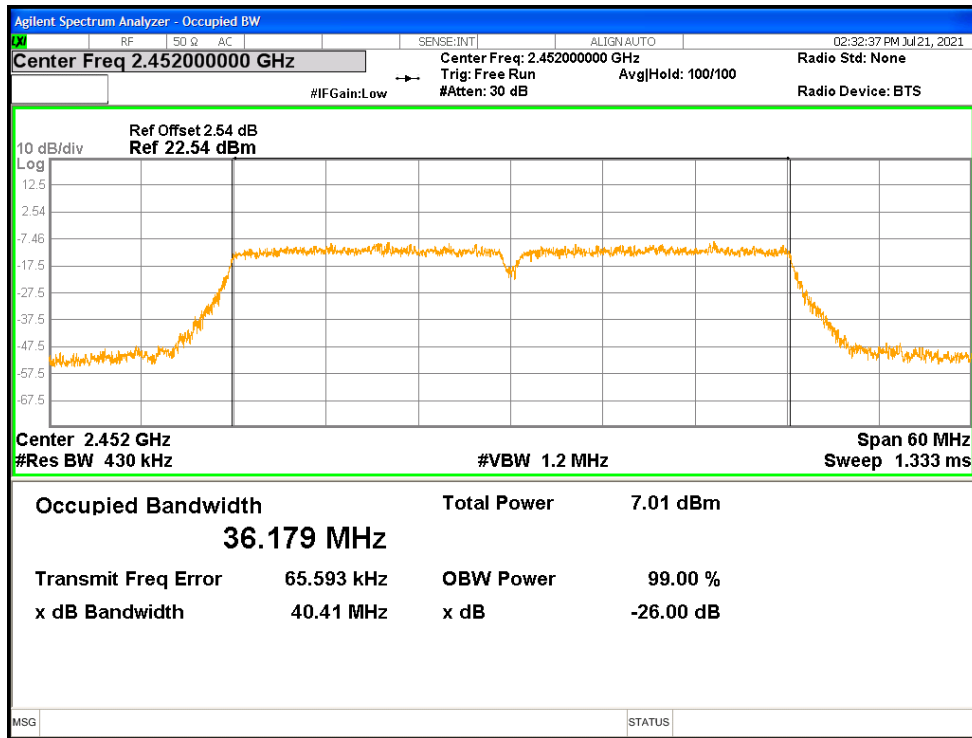
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



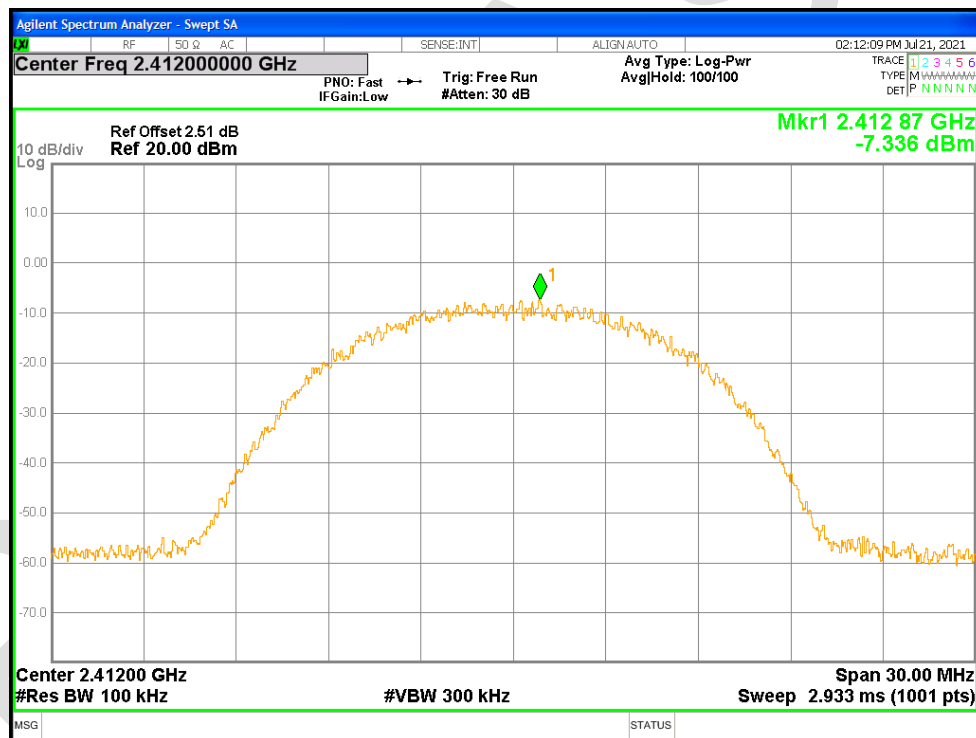
OBW NVNT n40 2452MHz Ant1



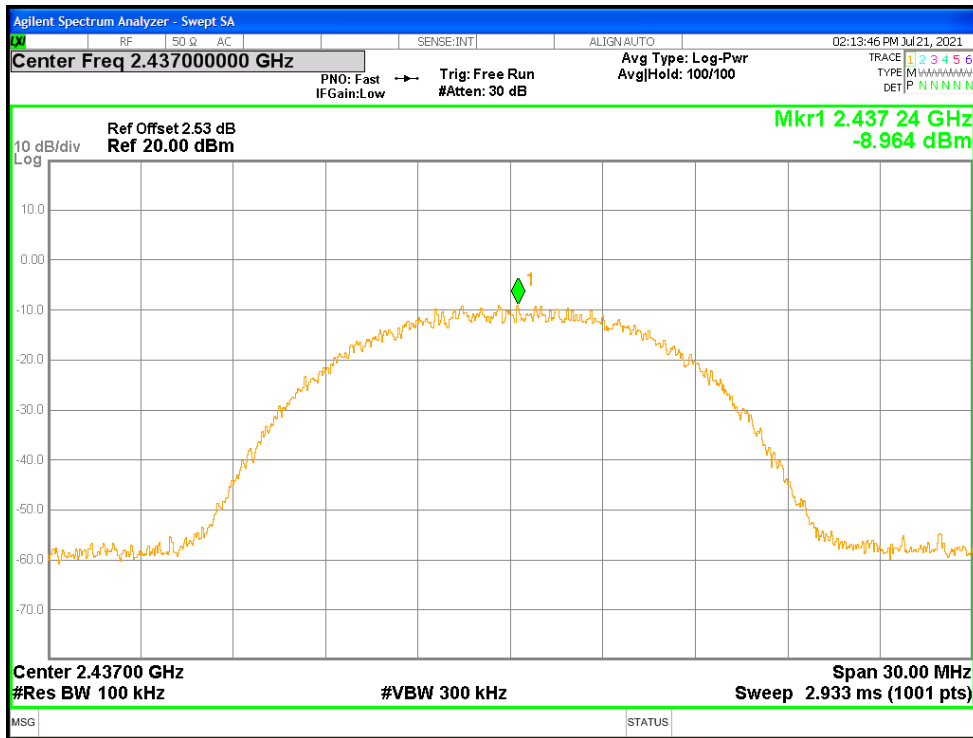
19.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-7.336	8	Pass
NVNT	b	2437	Ant1	-8.964	8	Pass
NVNT	b	2462	Ant1	-7.974	8	Pass
NVNT	g	2412	Ant1	-9.623	8	Pass
NVNT	g	2437	Ant1	-10.299	8	Pass
NVNT	g	2462	Ant1	-10.209	8	Pass
NVNT	n20	2412	Ant1	-9.811	8	Pass
NVNT	n20	2437	Ant1	-10.712	8	Pass
NVNT	n20	2462	Ant1	-10.294	8	Pass
NVNT	n40	2422	Ant1	-13.07	8	Pass
NVNT	n40	2437	Ant1	-13.195	8	Pass
NVNT	n40	2452	Ant1	-12.673	8	Pass

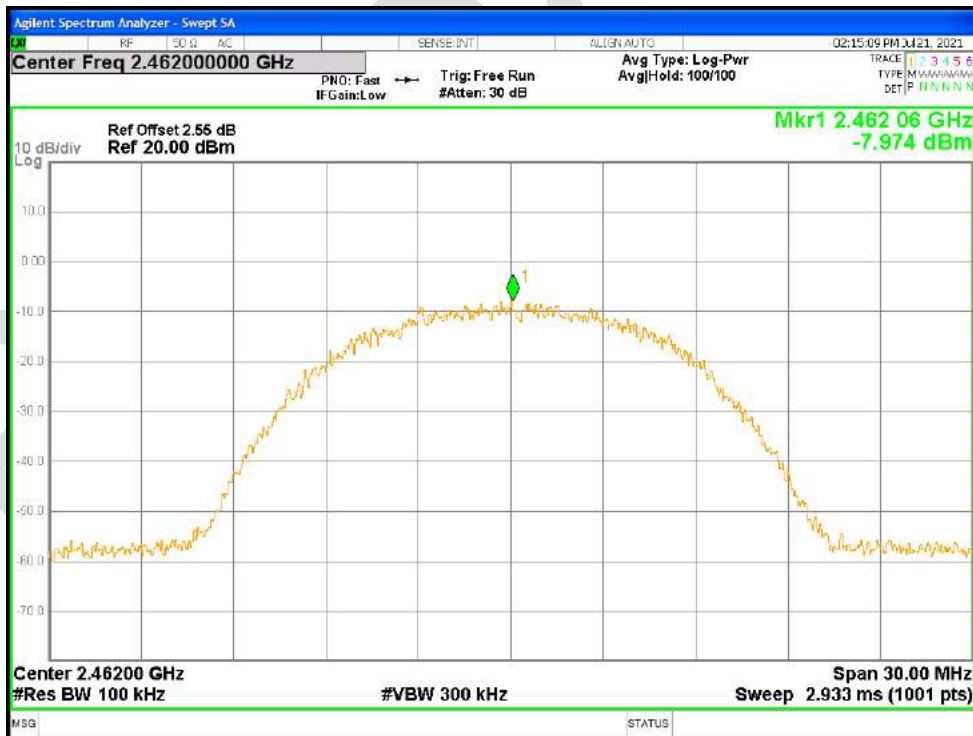
PSD NVNT b 2412MHz Ant1



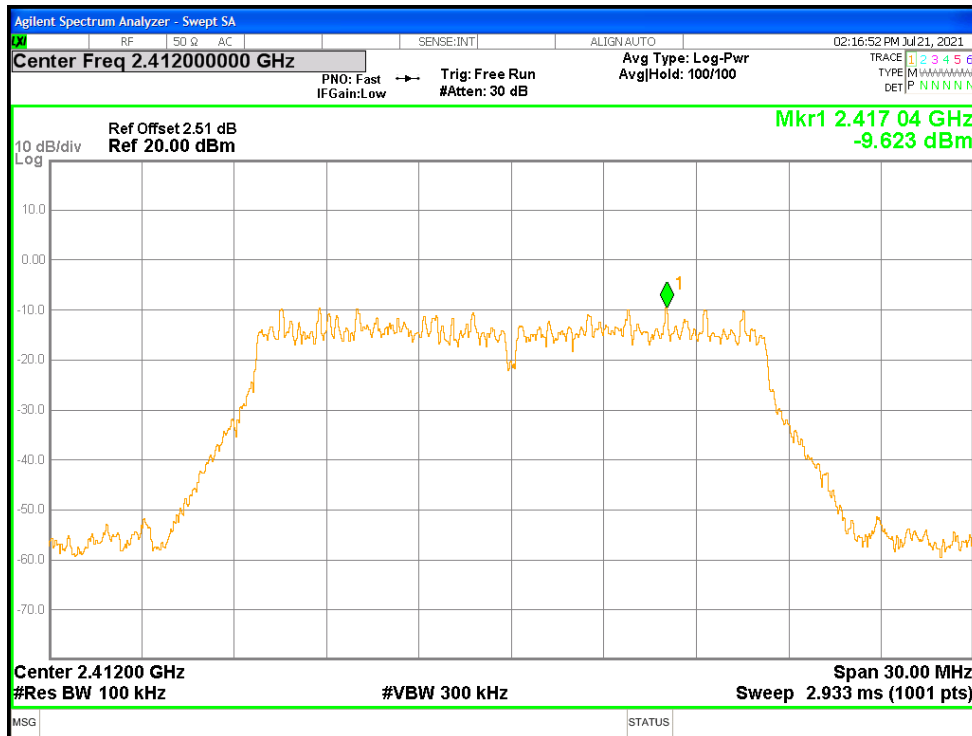
PSD NVNT b 2437MHz Ant1



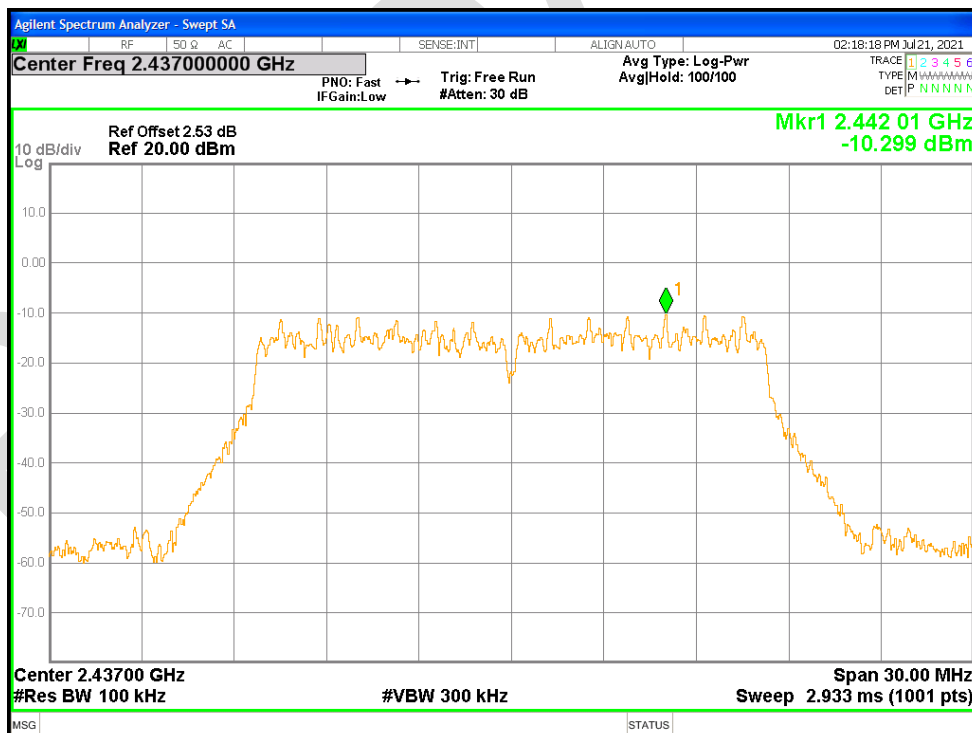
PSD NVNT b 2462MHz Ant1



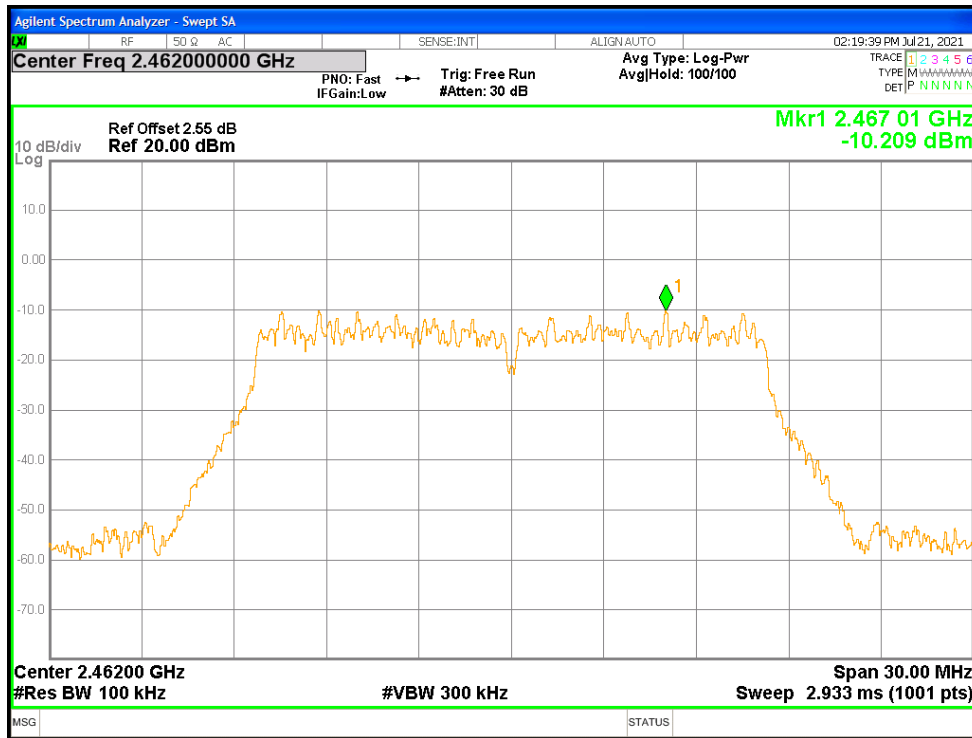
PSD NVNT g 2412MHz Ant1



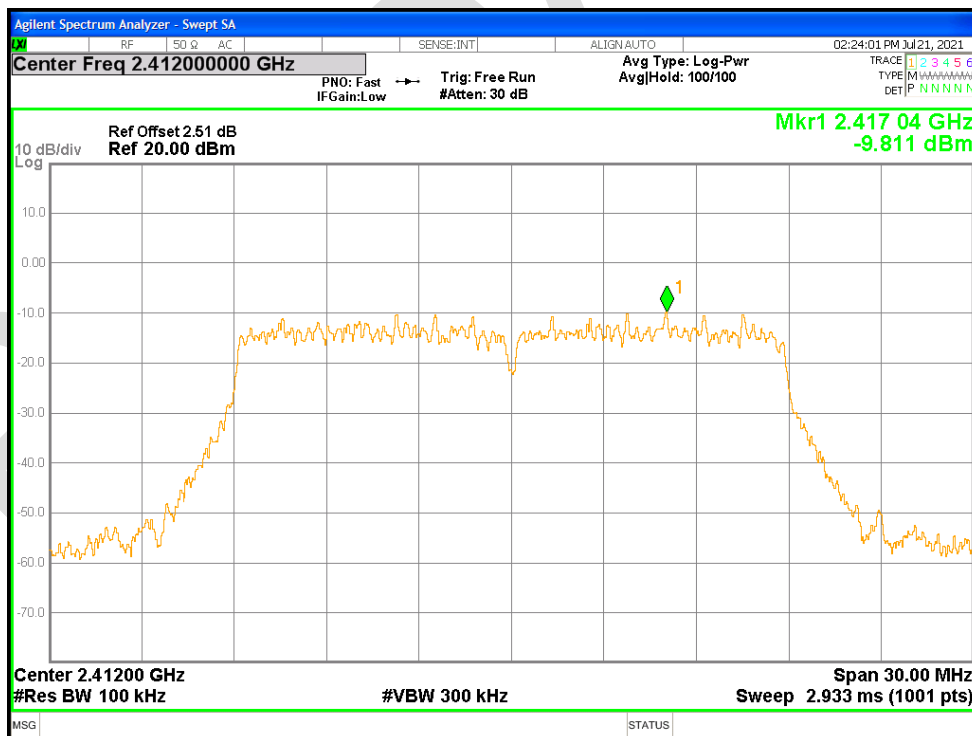
PSD NVNT g 2437MHz Ant1



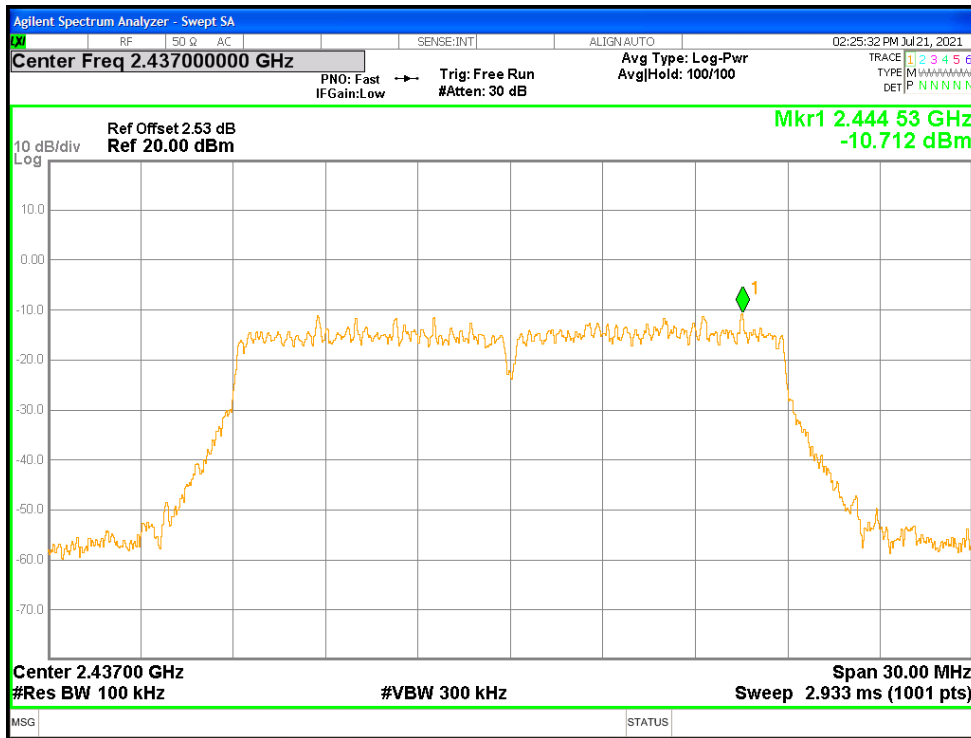
PSD NVNT g 2462MHz Ant1



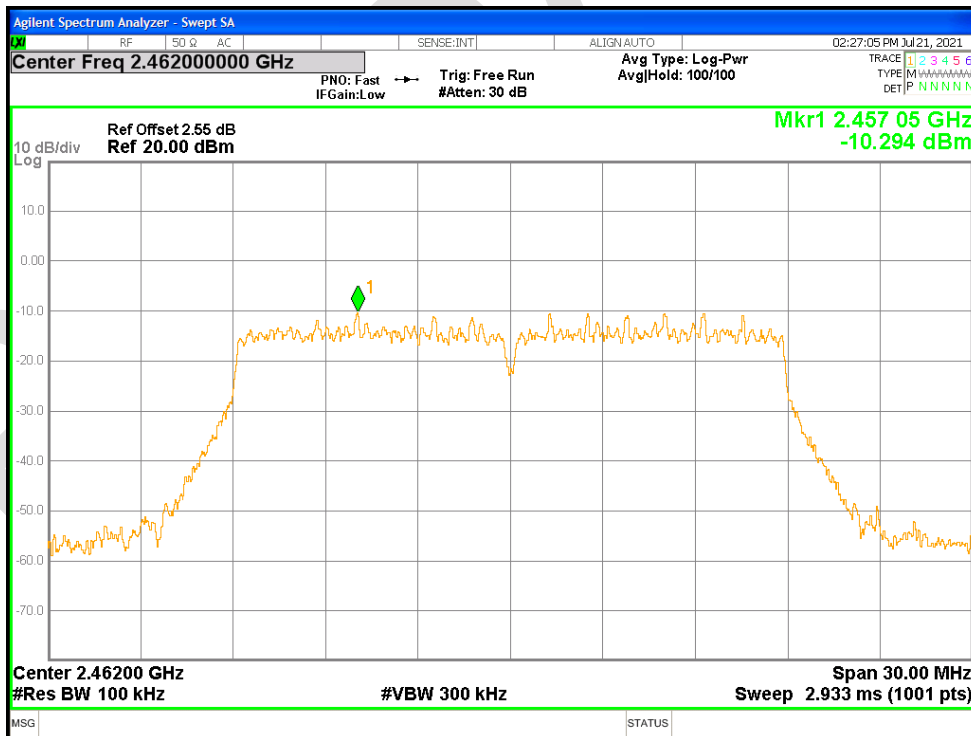
PSD NVNT n20 2412MHz Ant1



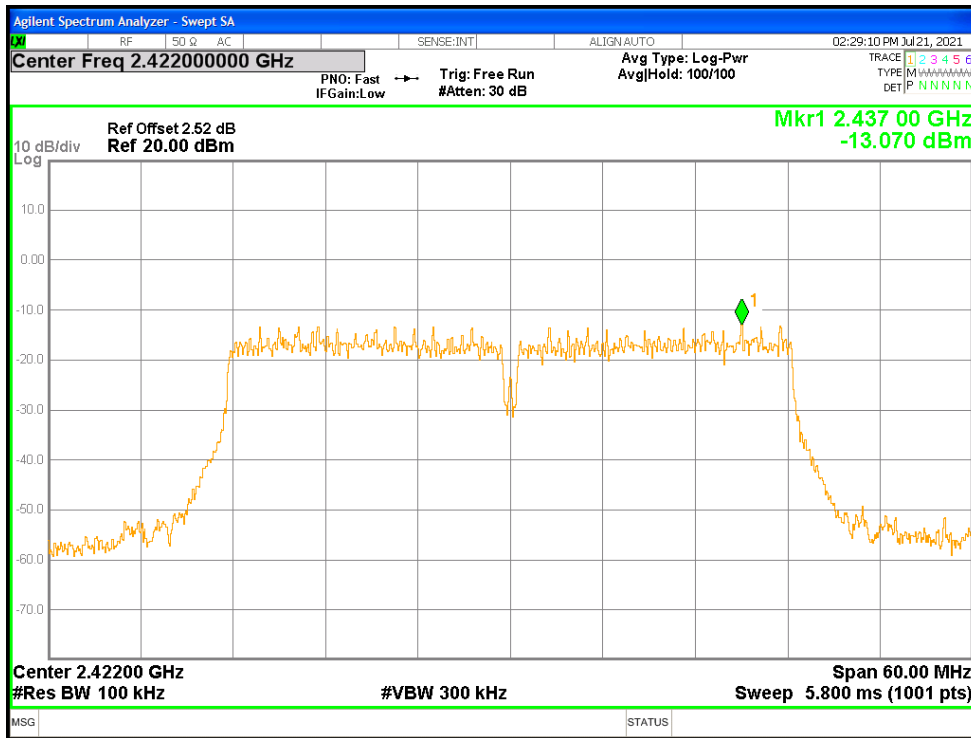
PSD NVNT n20 2437MHz Ant1



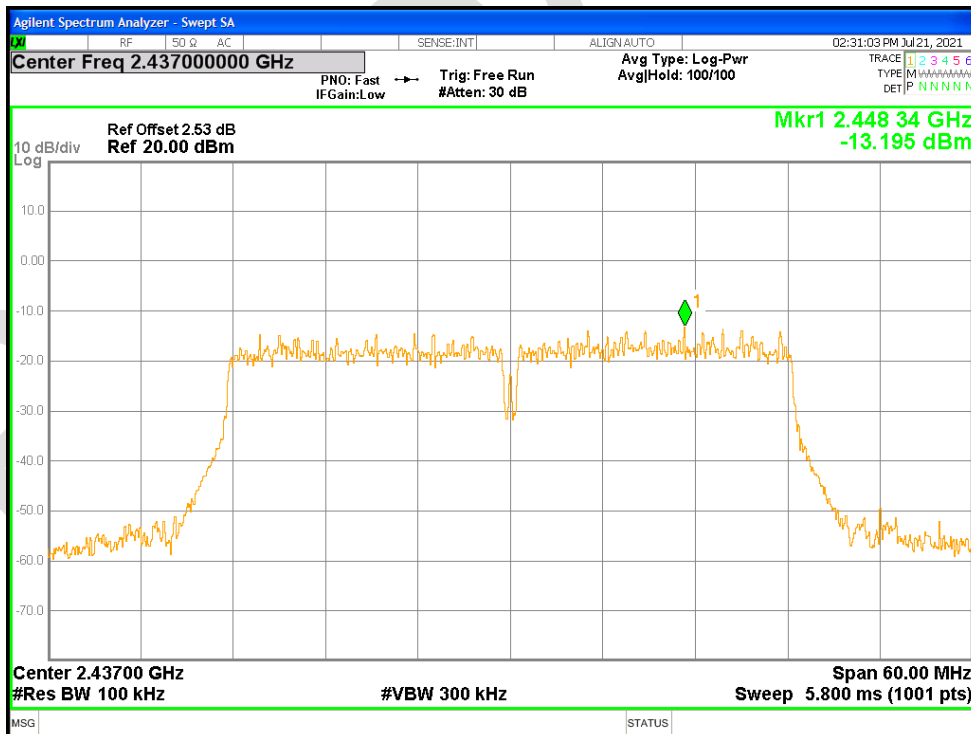
PSD NVNT n20 2462MHz Ant1



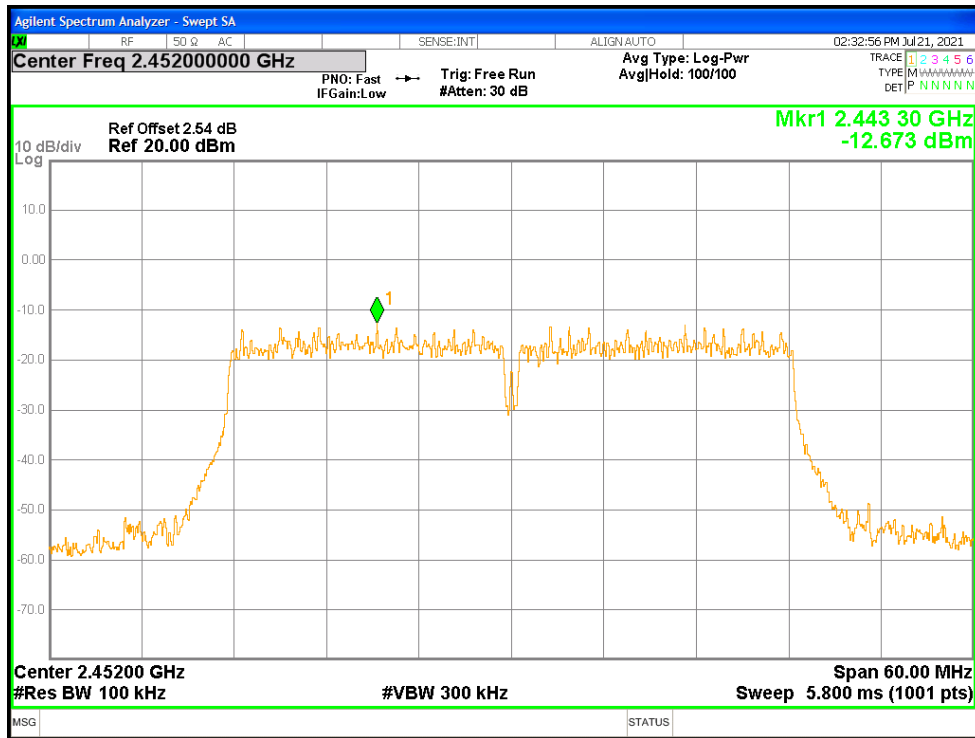
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



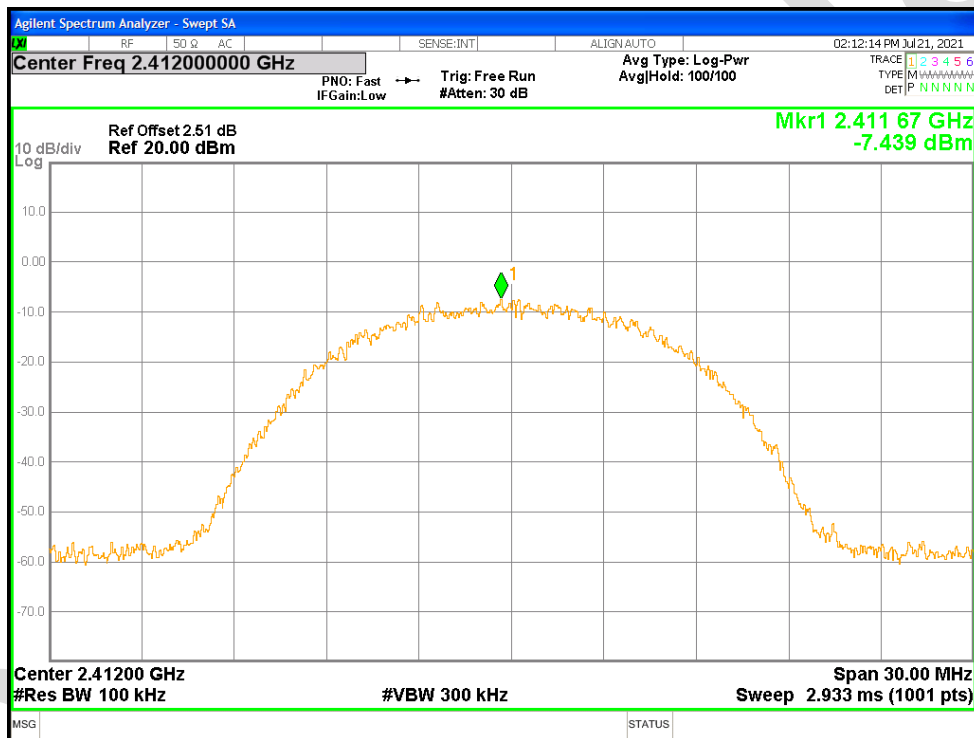
PSD NVNT n40 2452MHz Ant1



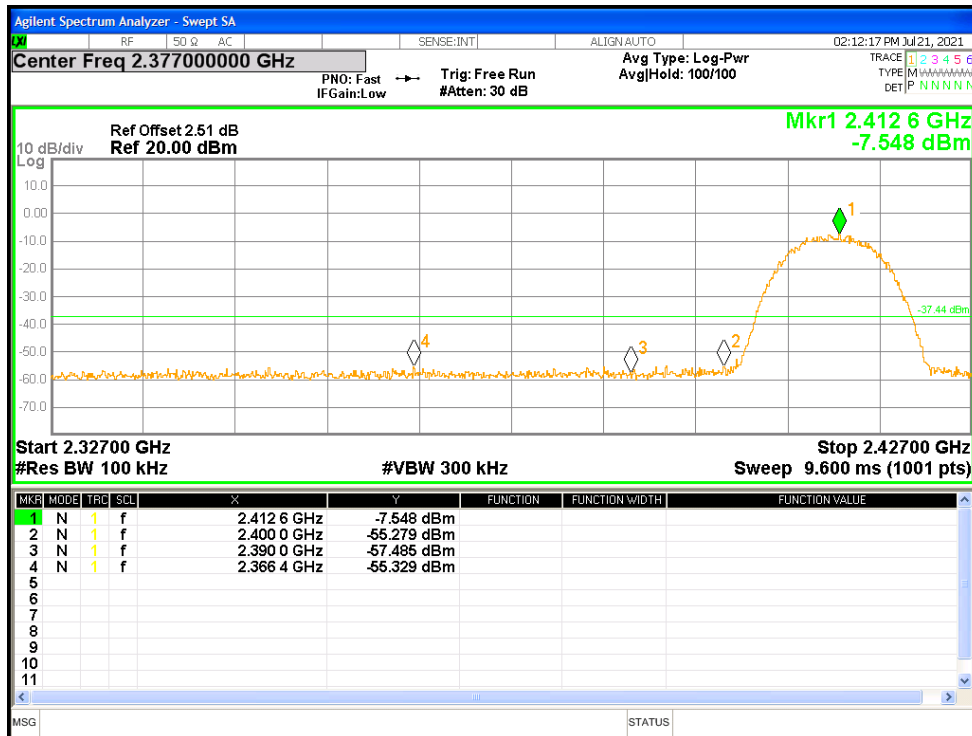
19.5 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.88	-30	Pass
NVNT	b	2462	Ant1	-46.94	-30	Pass
NVNT	g	2412	Ant1	-46.21	-30	Pass
NVNT	g	2462	Ant1	-45.45	-30	Pass
NVNT	n20	2412	Ant1	-44.96	-30	Pass
NVNT	n20	2462	Ant1	-44.89	-30	Pass
NVNT	n40	2422	Ant1	-42.31	-30	Pass
NVNT	n40	2452	Ant1	-40.45	-30	Pass

Band Edge NVNT b 2412MHz Ant1 Ref



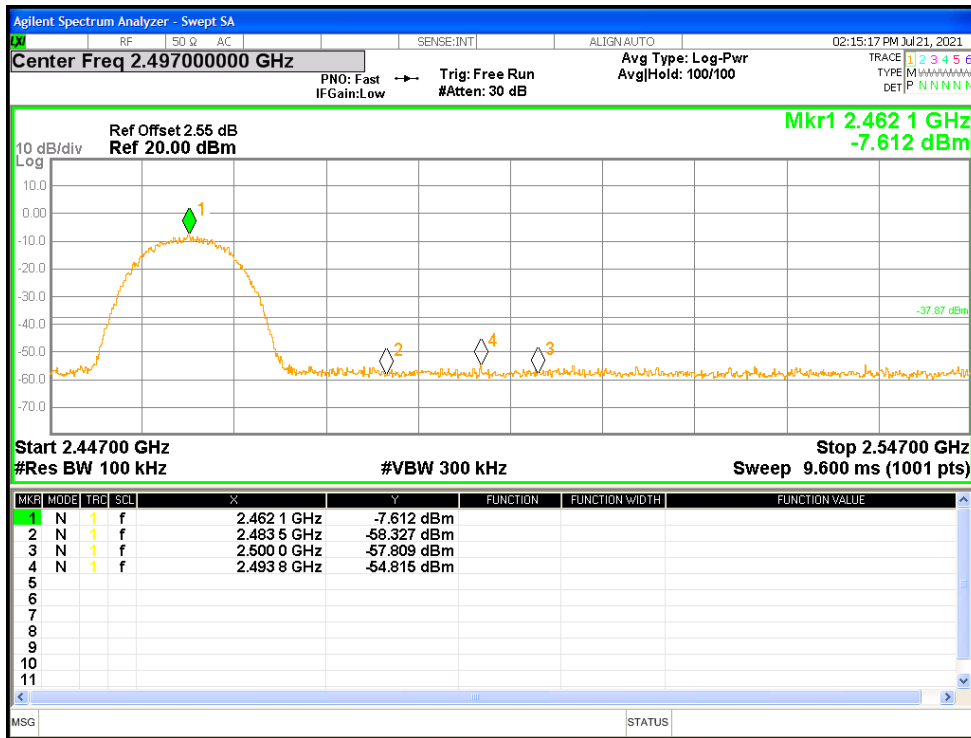
Band Edge NVNT b 2412MHz Ant1 Emission



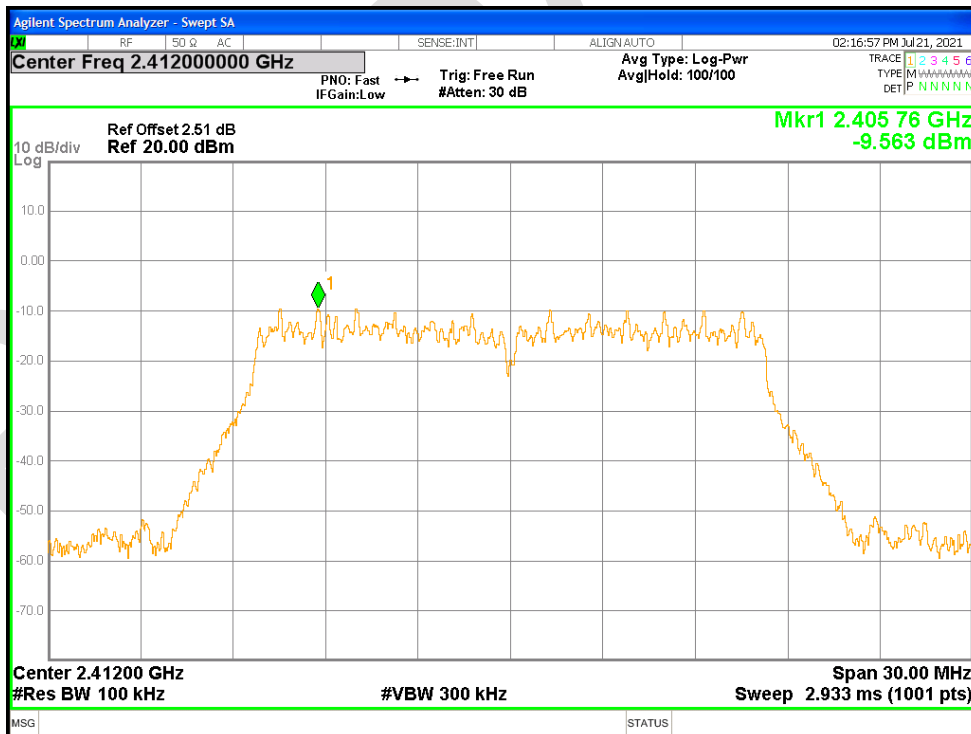
Band Edge NVNT b 2462MHz Ant1 Ref



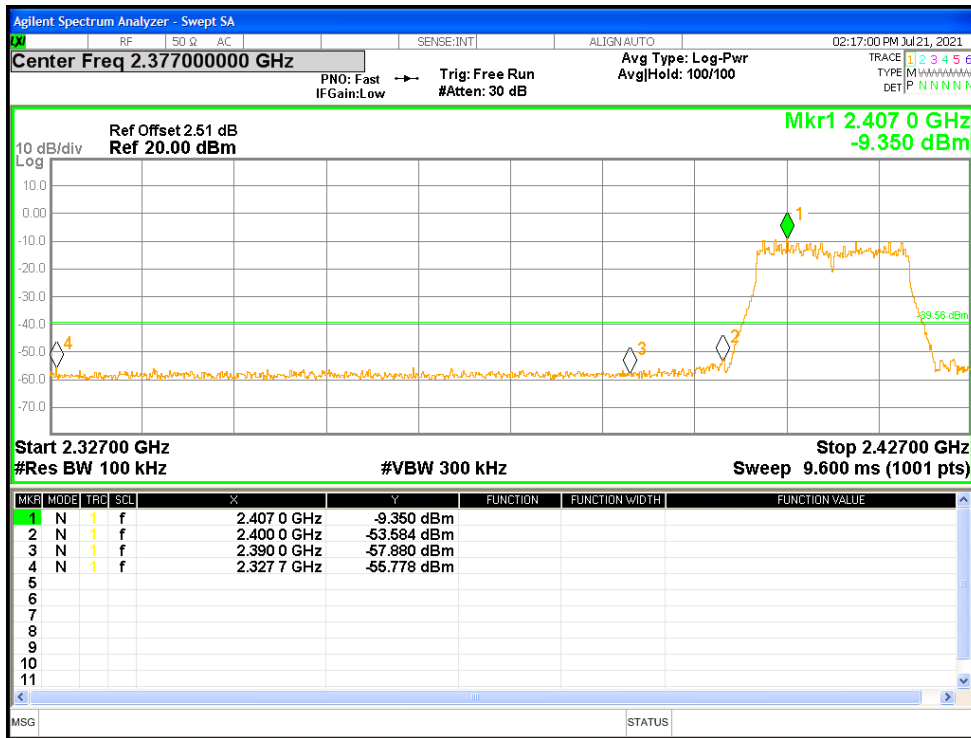
Band Edge NVNT b 2462MHz Ant1 Emission



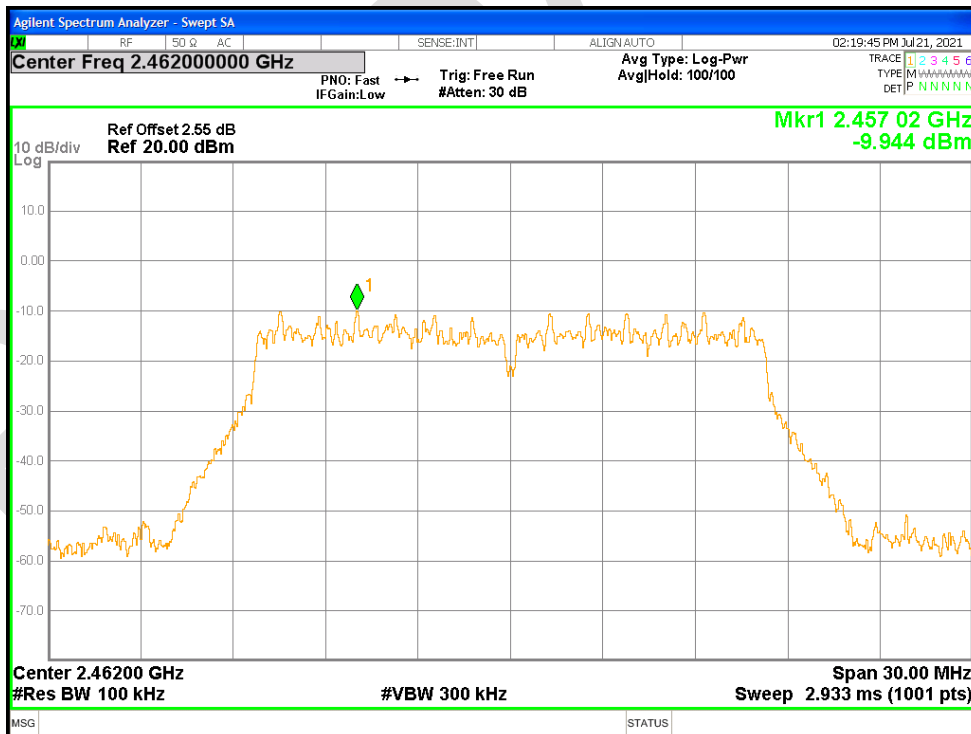
Band Edge NVNT g 2412MHz Ant1 Ref



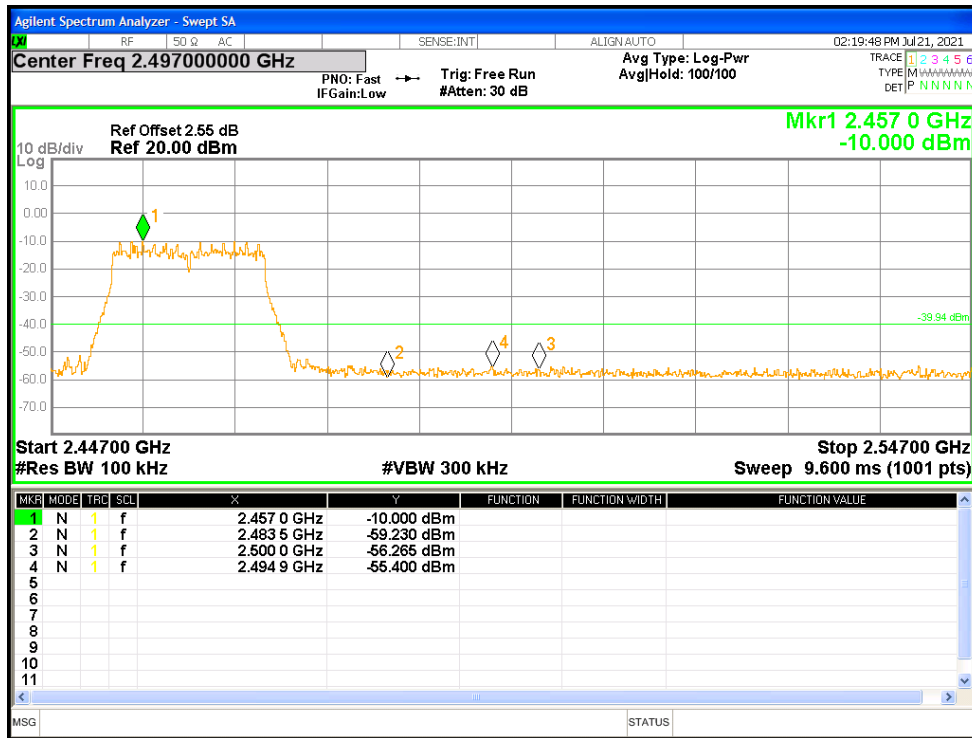
Band Edge NVNT g 2412MHz Ant1 Emission



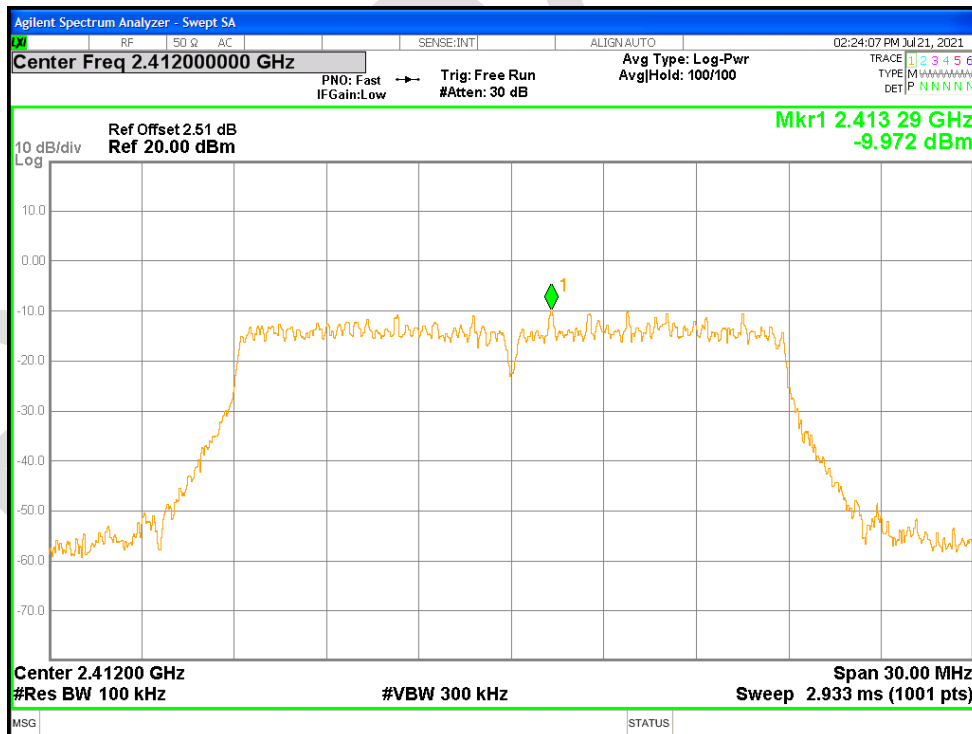
Band Edge NVNT g 2462MHz Ant1 Ref



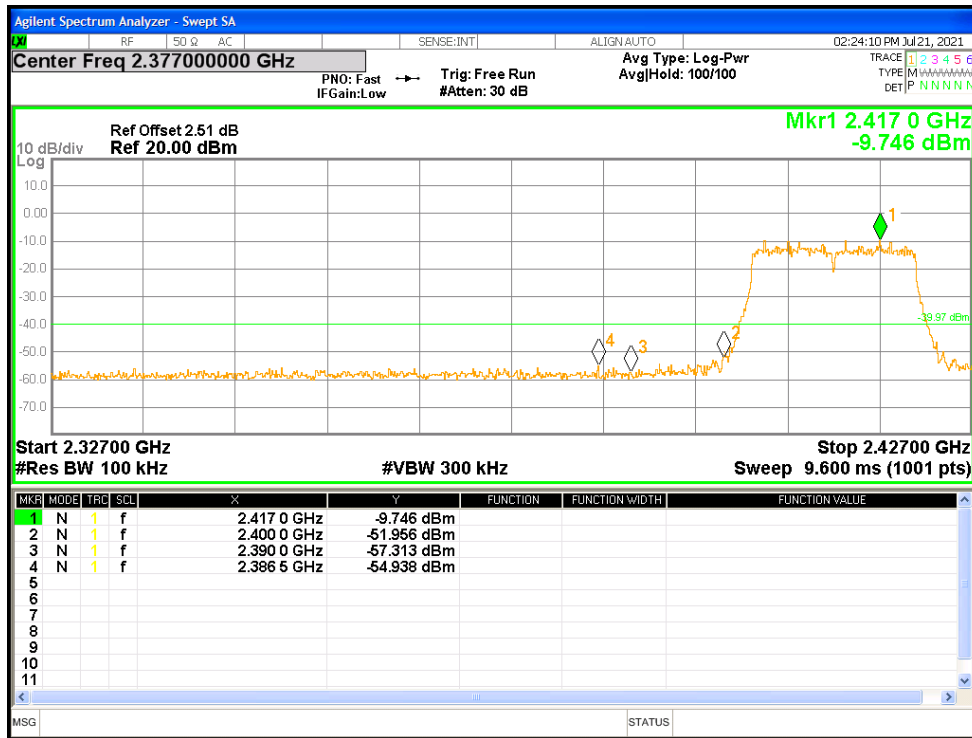
Band Edge NVNT g 2462MHz Ant1 Emission



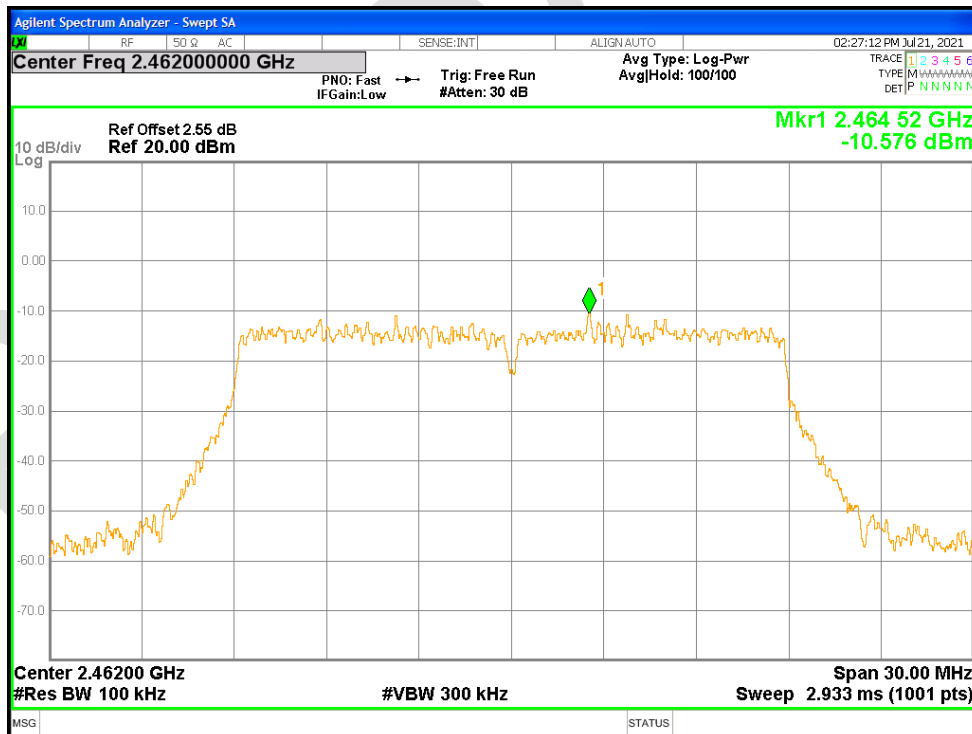
Band Edge NVNT n20 2412MHz Ant1 Ref



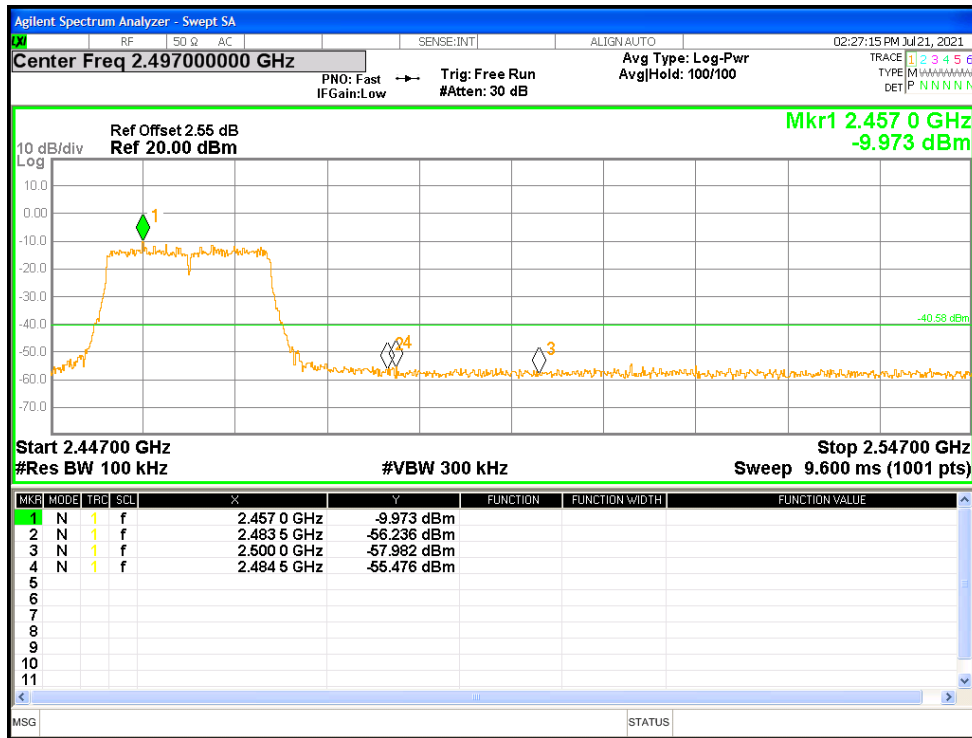
Band Edge NVNT n20 2412MHz Ant1 Emission



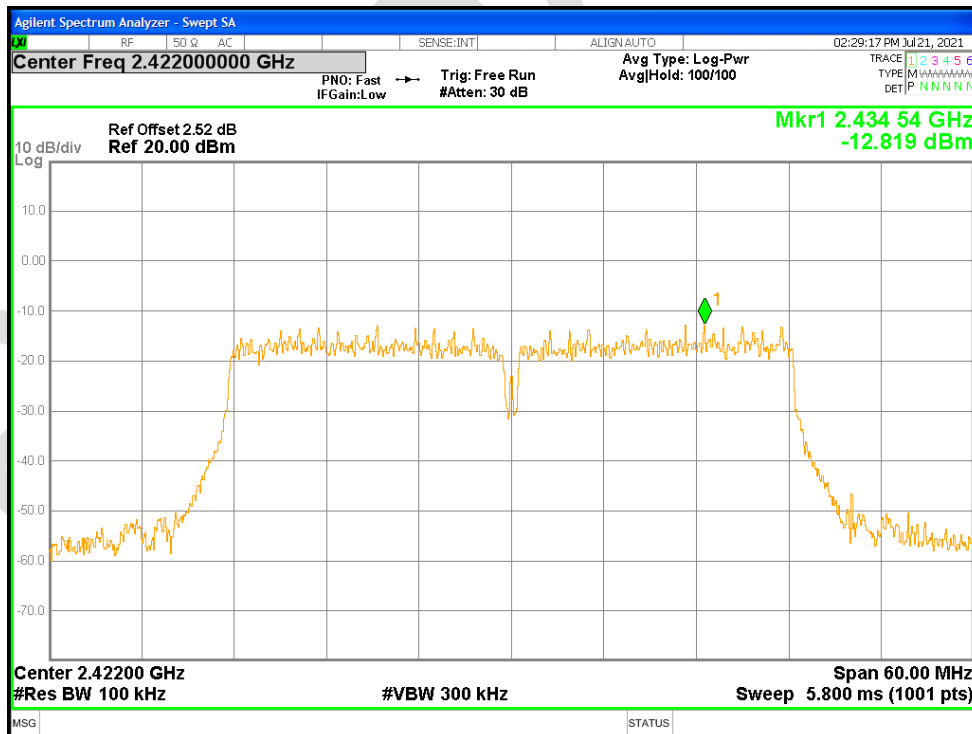
Band Edge NVNT n20 2462MHz Ant1 Ref



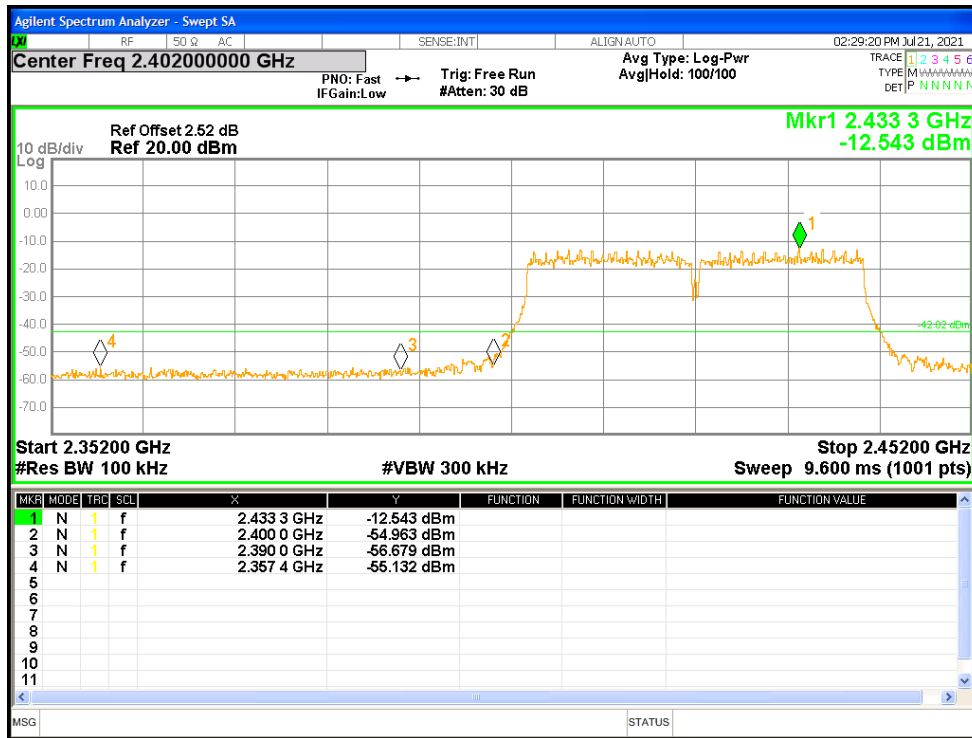
Band Edge NVNT n20 2462MHz Ant1 Emission



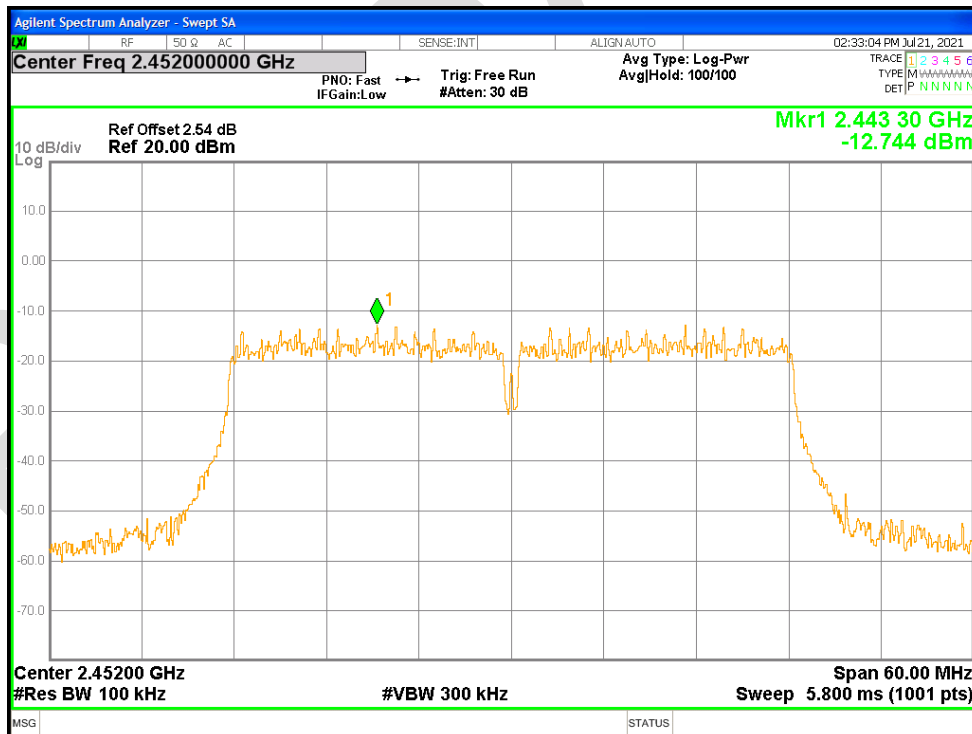
Band Edge NVNT n40 2422MHz Ant1 Ref



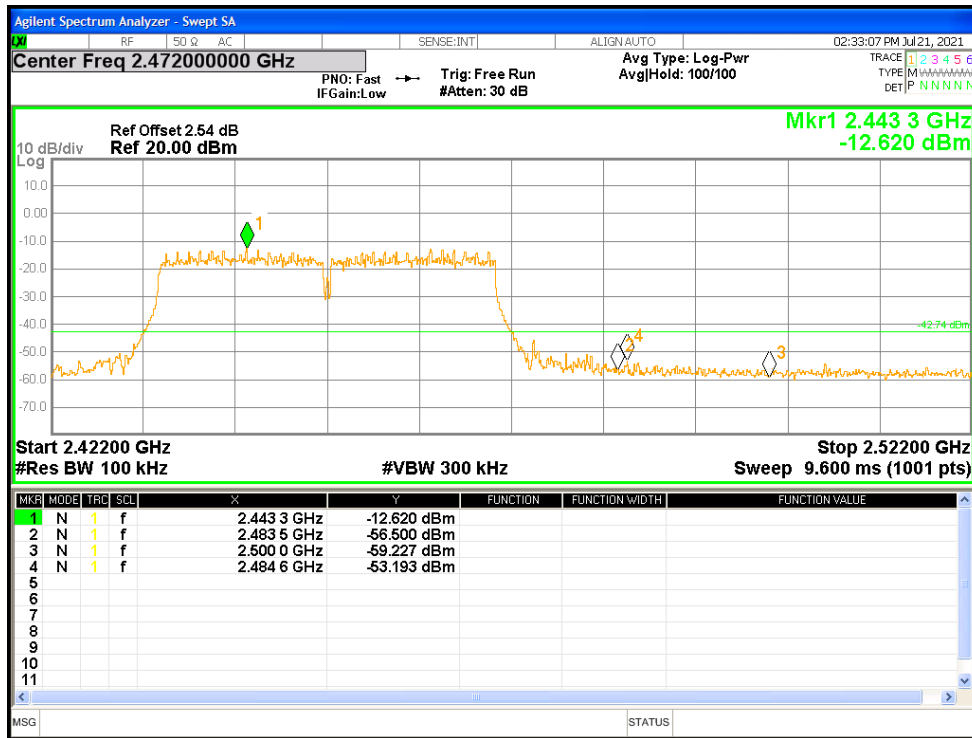
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



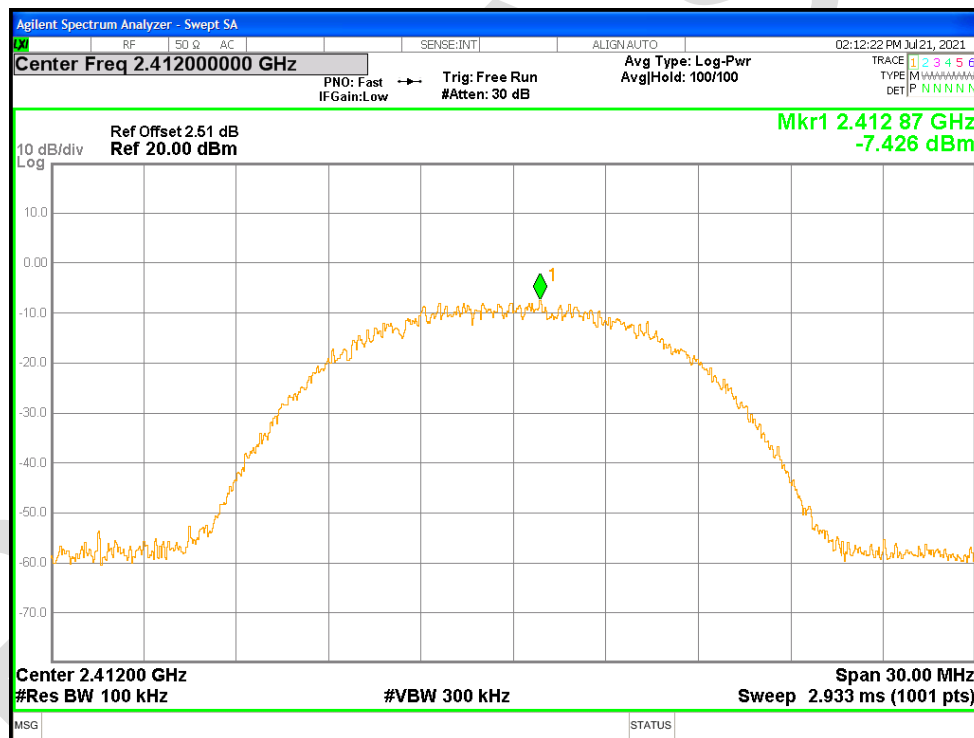
Band Edge NVNT n40 2452MHz Ant1 Emission



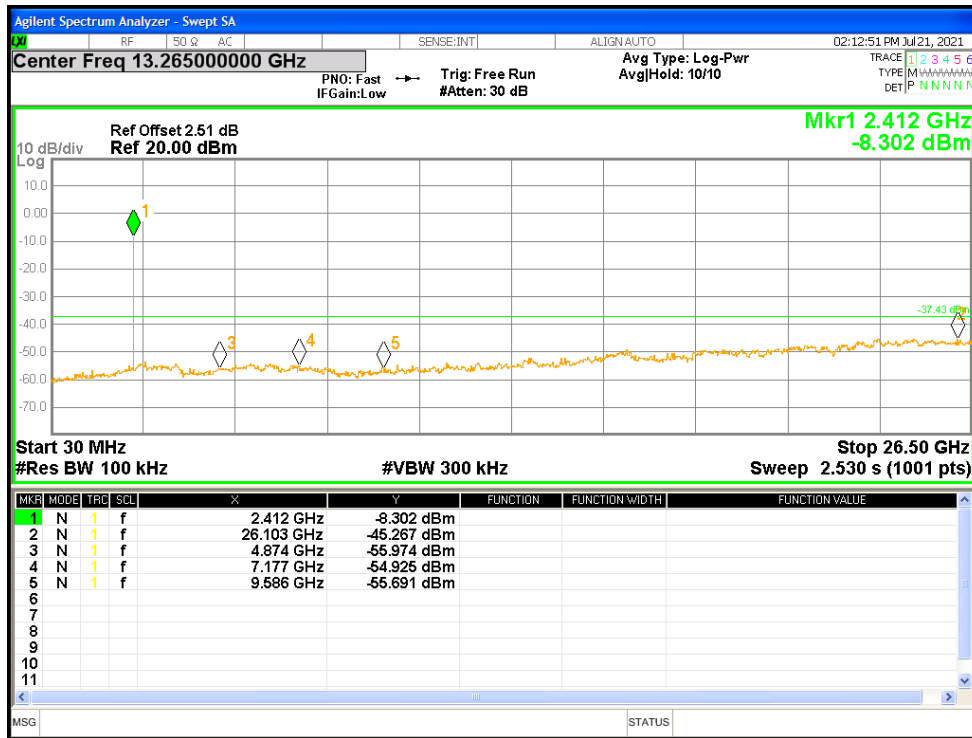
19.6 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-37.83	-30	Pass
NVNT	b	2437	Ant1	-36.57	-30	Pass
NVNT	b	2462	Ant1	-36.19	-30	Pass
NVNT	g	2412	Ant1	-35.34	-30	Pass
NVNT	g	2437	Ant1	-34.39	-30	Pass
NVNT	g	2462	Ant1	-34.29	-30	Pass
NVNT	n20	2412	Ant1	-34.66	-30	Pass
NVNT	n20	2437	Ant1	-34.35	-30	Pass
NVNT	n20	2462	Ant1	-34.64	-30	Pass
NVNT	n40	2422	Ant1	-32.12	-30	Pass
NVNT	n40	2437	Ant1	-31.68	-30	Pass
NVNT	n40	2452	Ant1	-32.34	-30	Pass

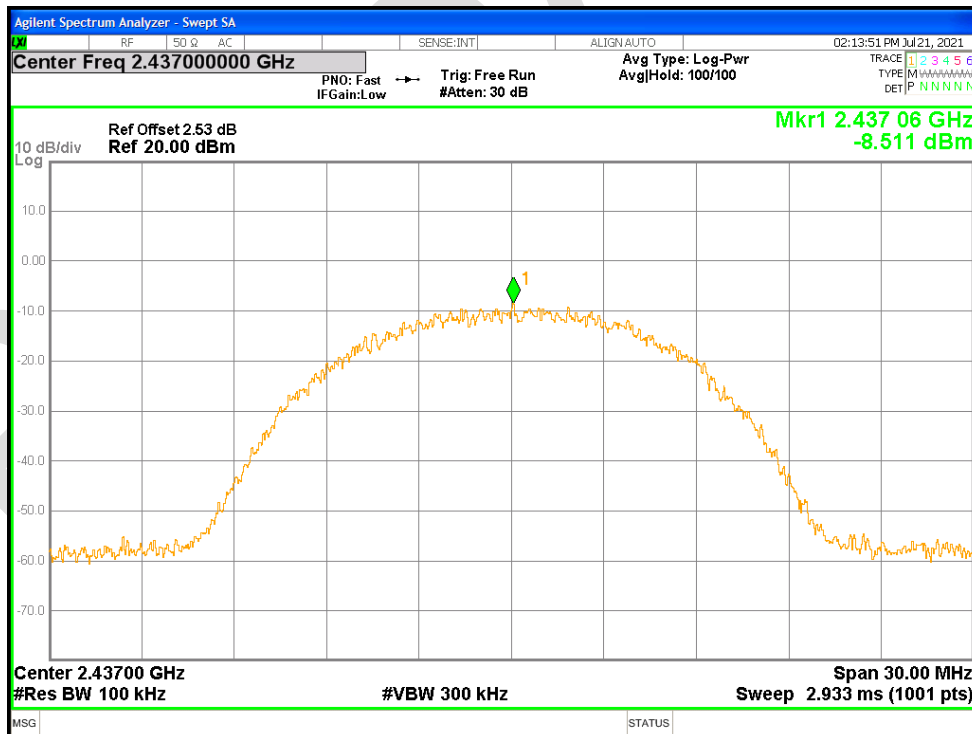
Tx. Spurious NVNT b 2412MHz Ant1 Ref



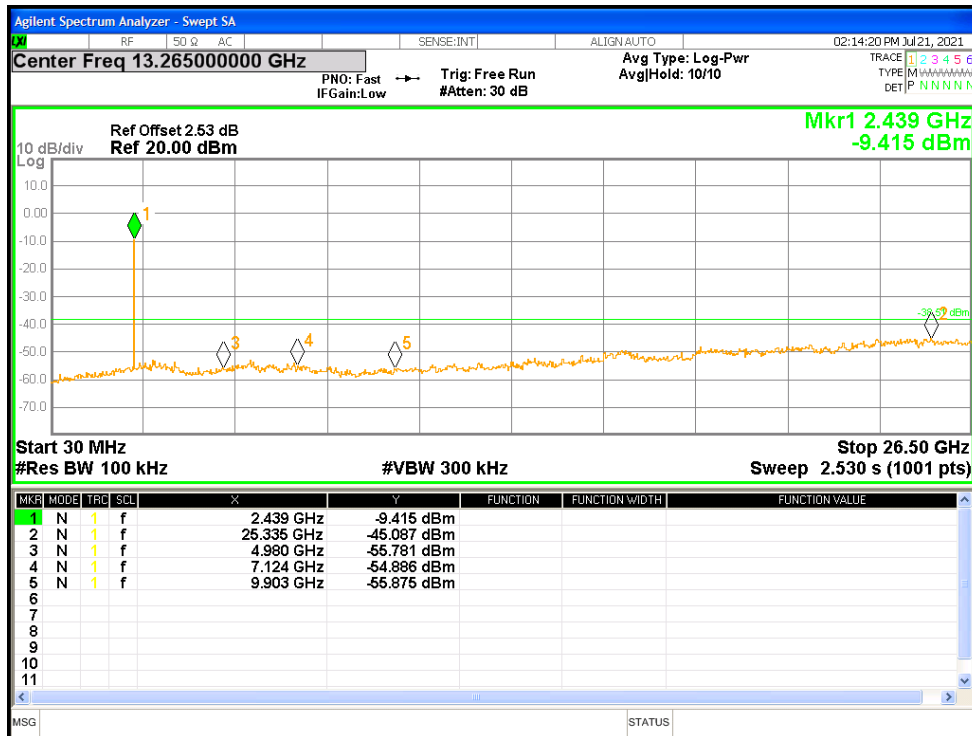
Tx. Spurious NVNT b 2412MHz Ant1 Emission



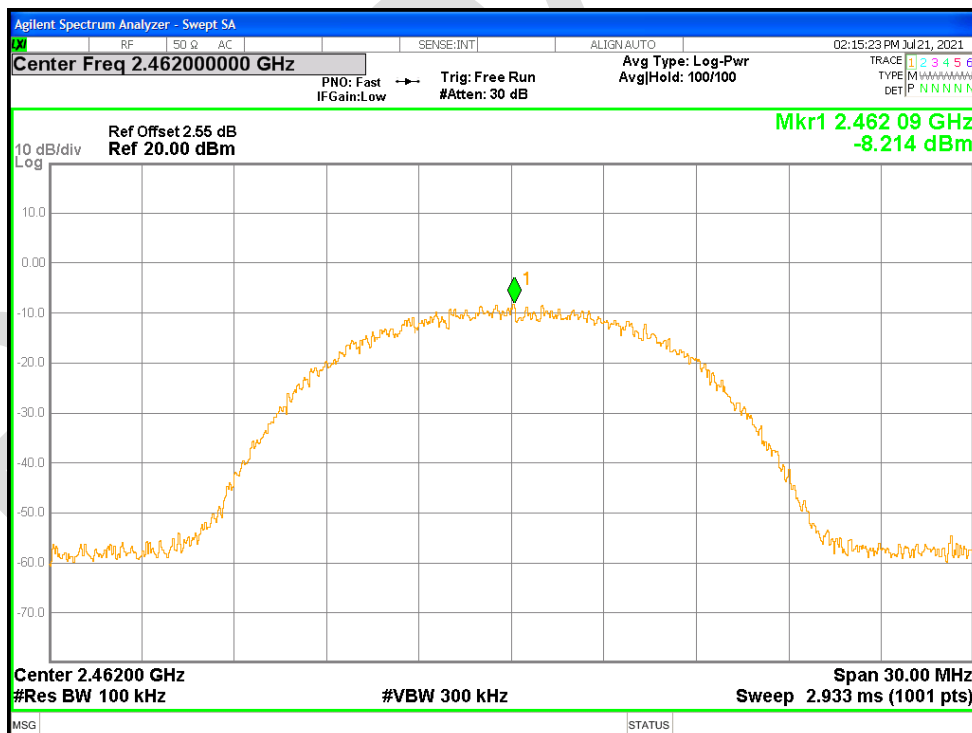
Tx. Spurious NVNT b 2437MHz Ant1 Ref



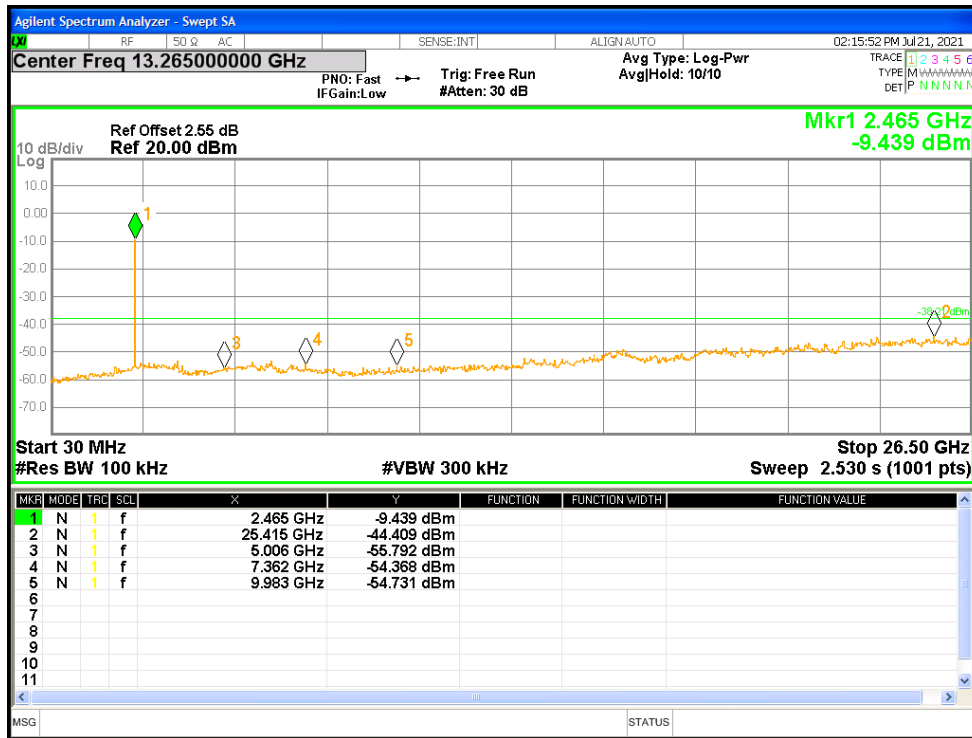
Tx. Spurious NVNT b 2437MHz Ant1 Emission



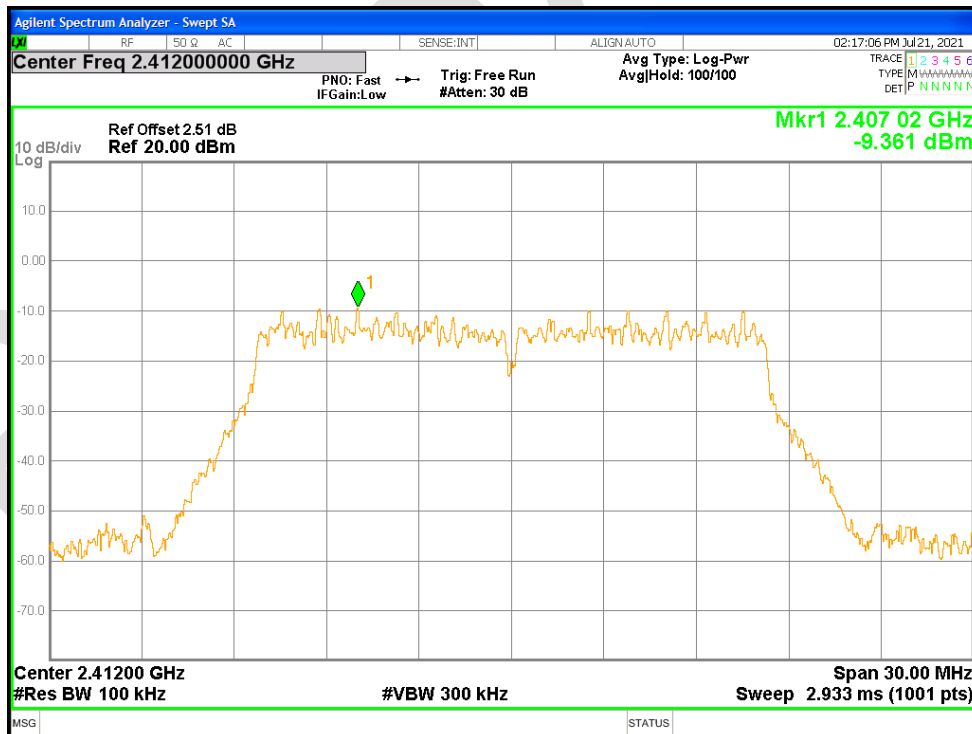
Tx. Spurious NVNT b 2462MHz Ant1 Ref



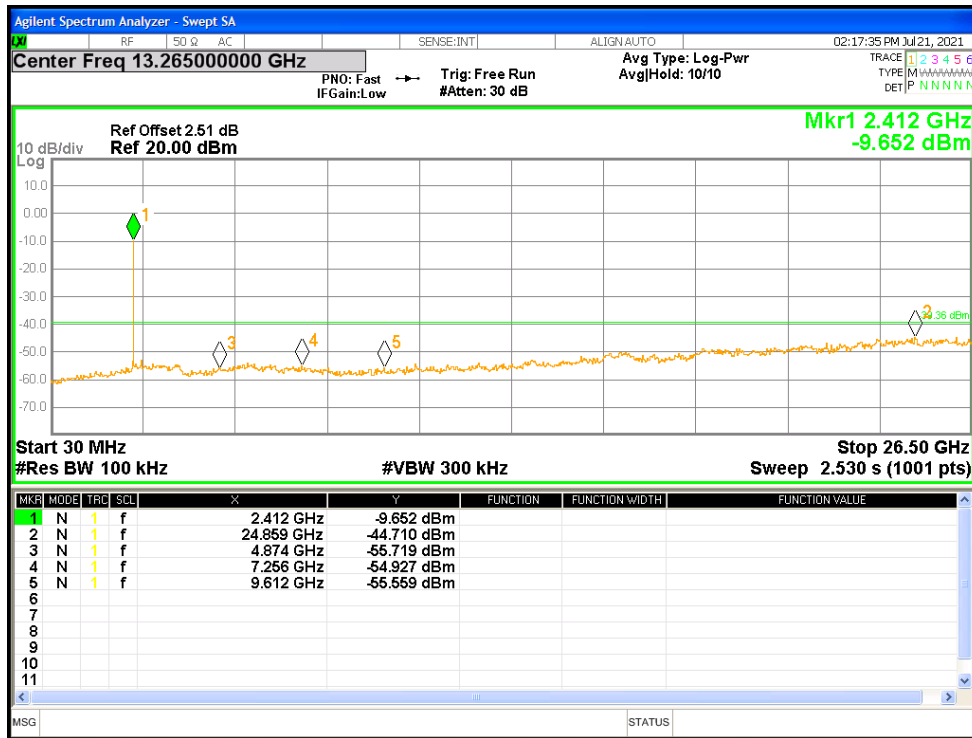
Tx. Spurious NVNT b 2462MHz Ant1 Emission



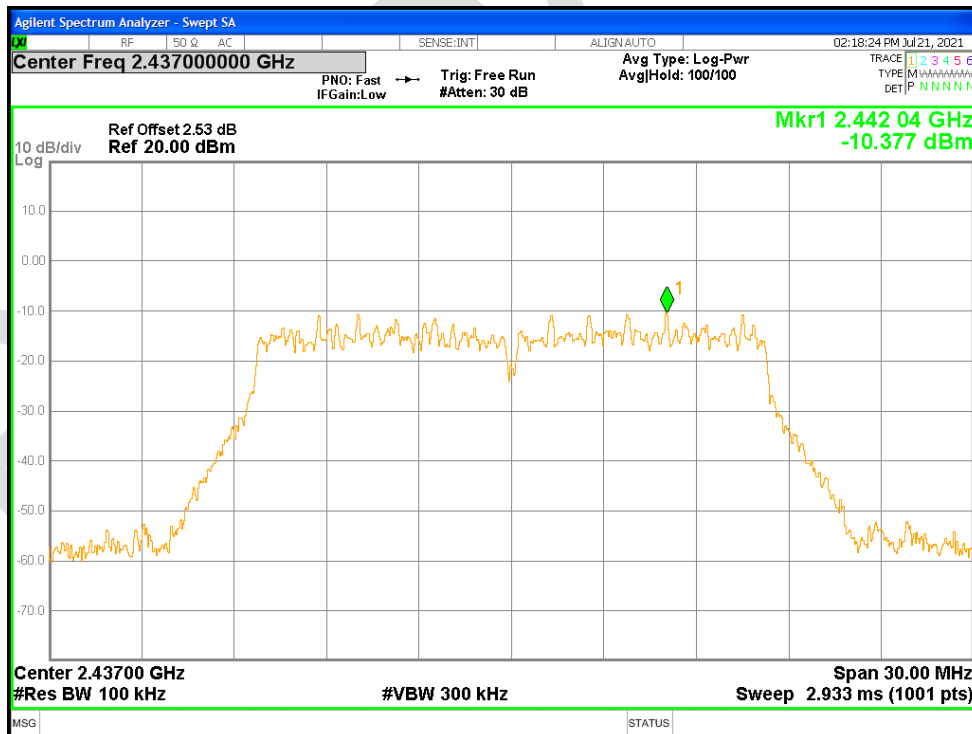
Tx. Spurious NVNT g 2412MHz Ant1 Ref



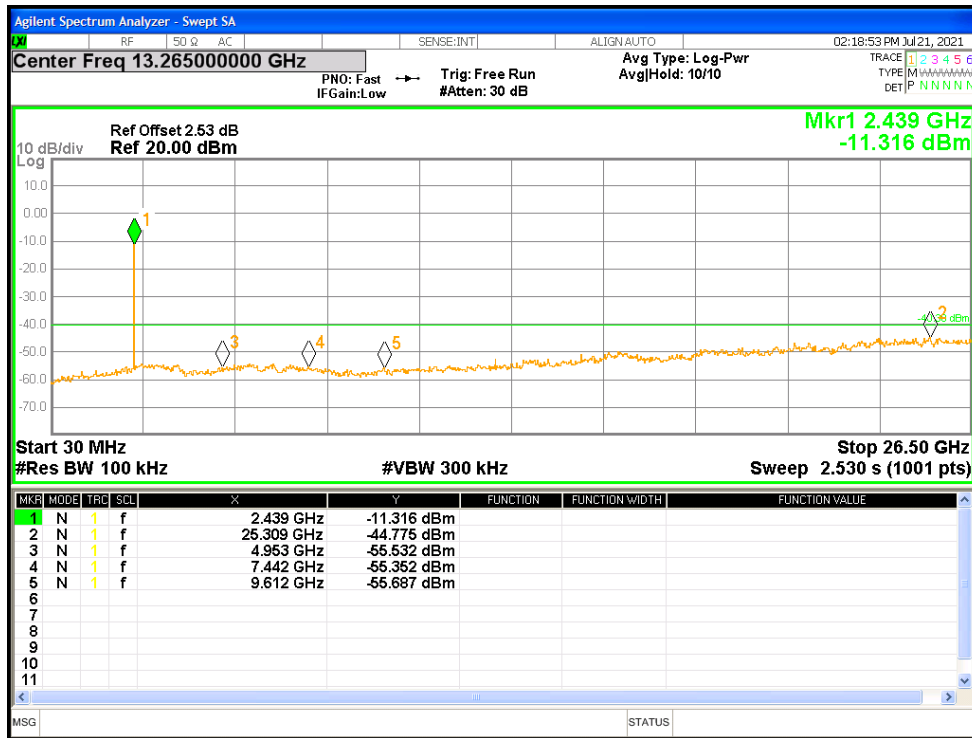
Tx. Spurious NVNT g 2412MHz Ant1 Emission



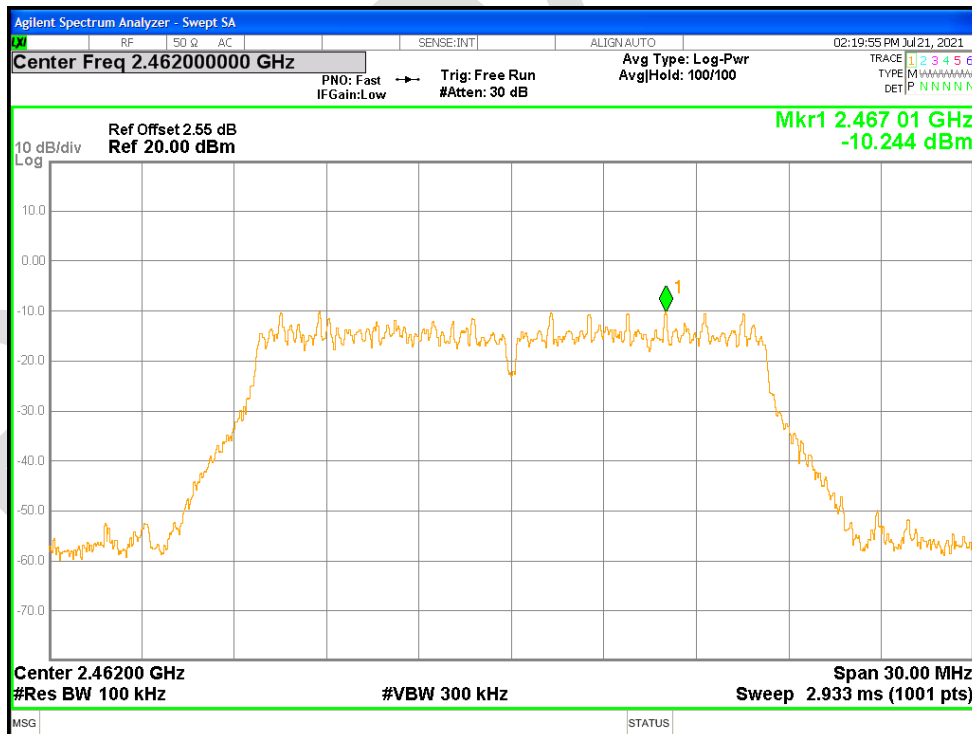
Tx. Spurious NVNT g 2437MHz Ant1 Ref



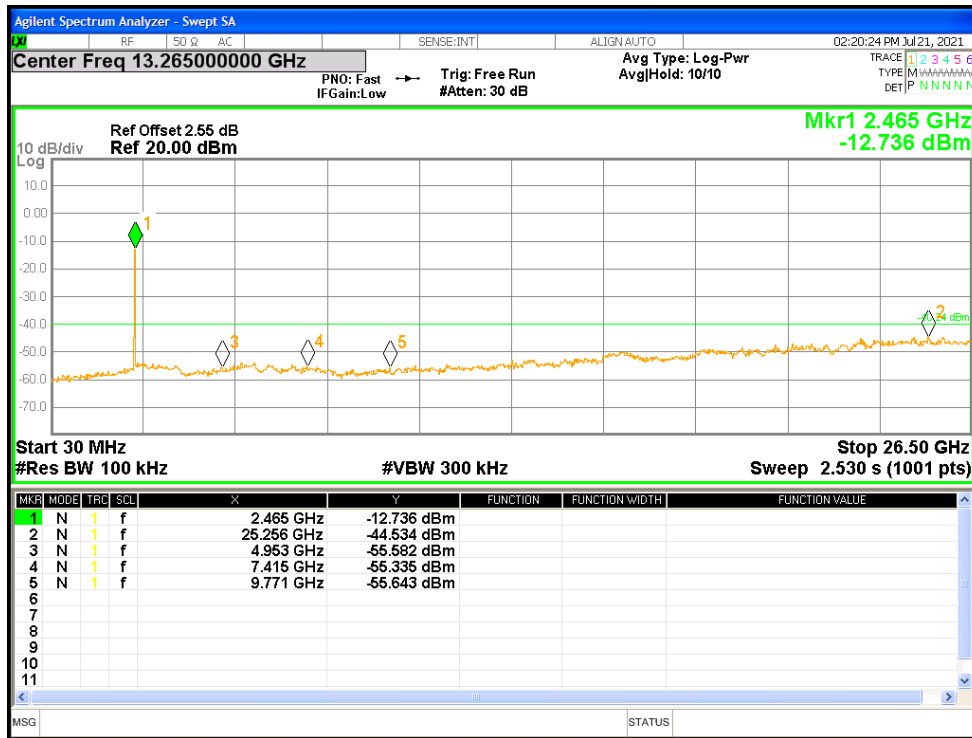
Tx. Spurious NVNT g 2437MHz Ant1 Emission



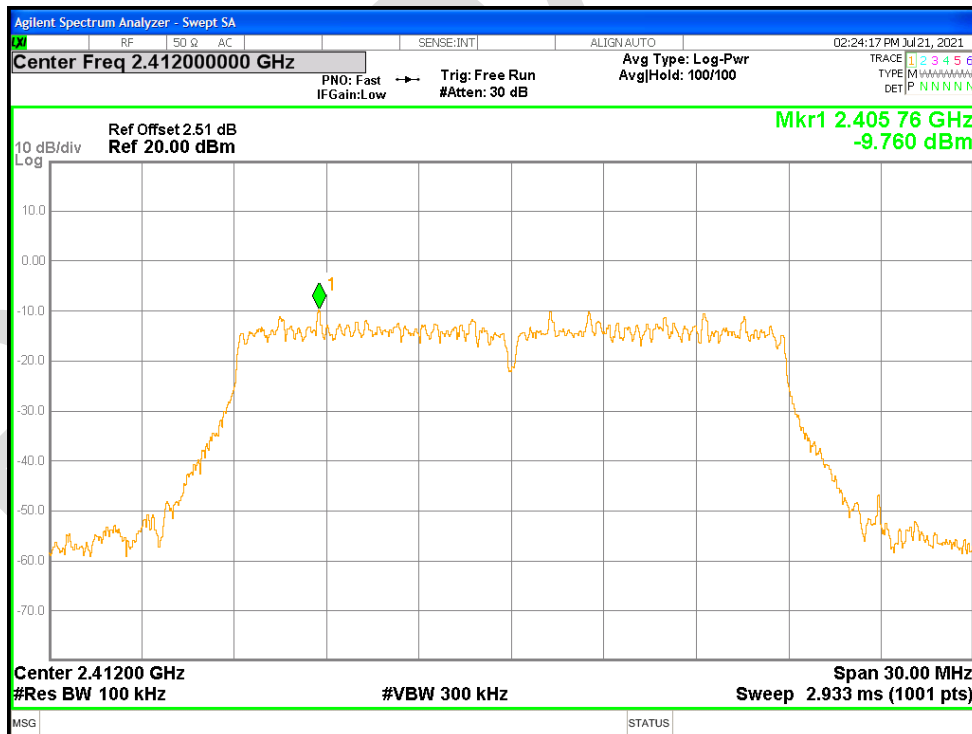
Tx. Spurious NVNT g 2462MHz Ant1 Ref



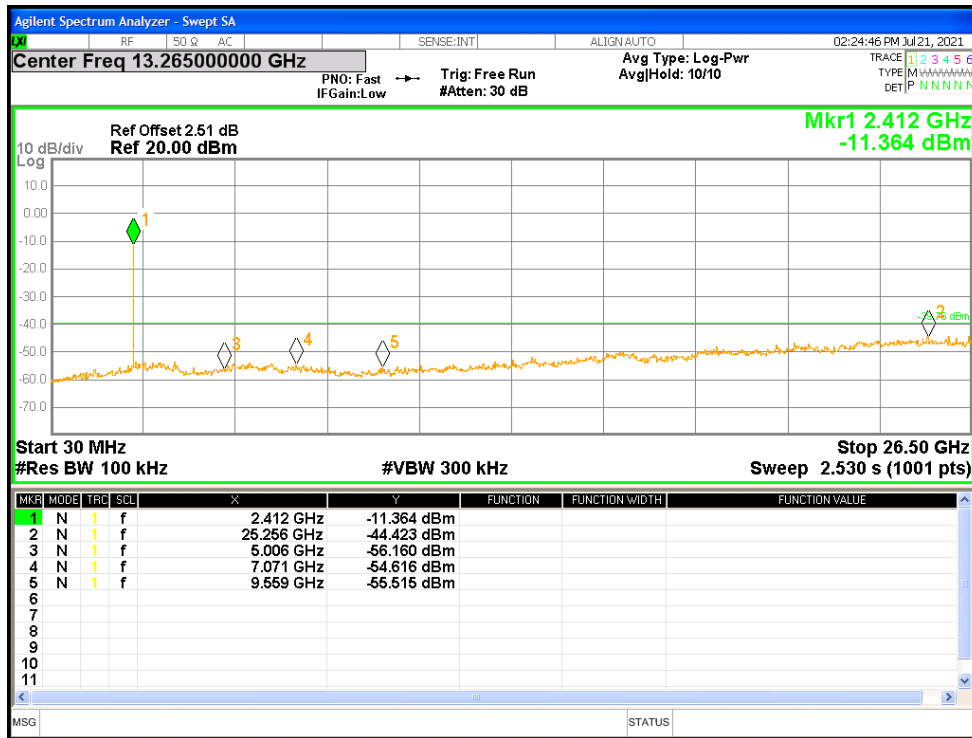
Tx. Spurious NVNT g 2462MHz Ant1 Emission



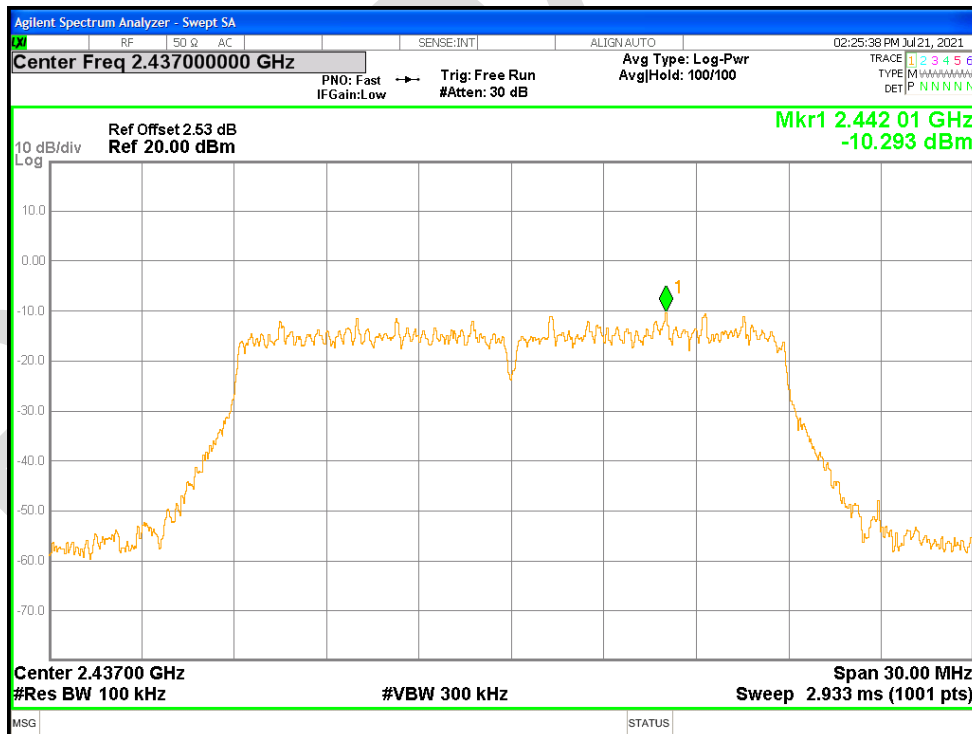
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



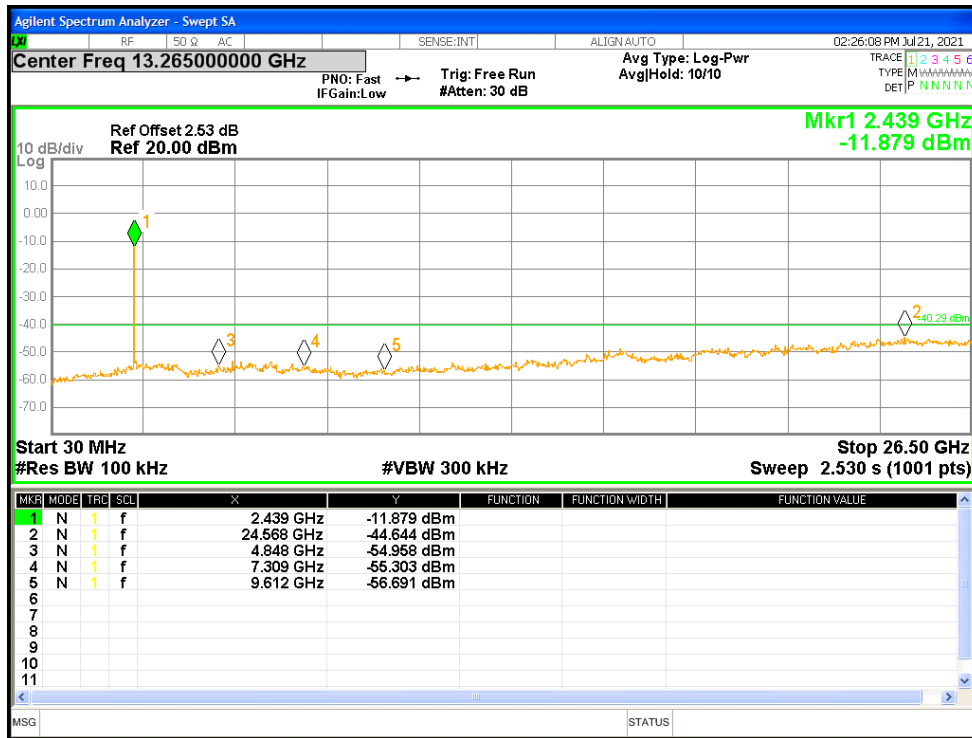
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



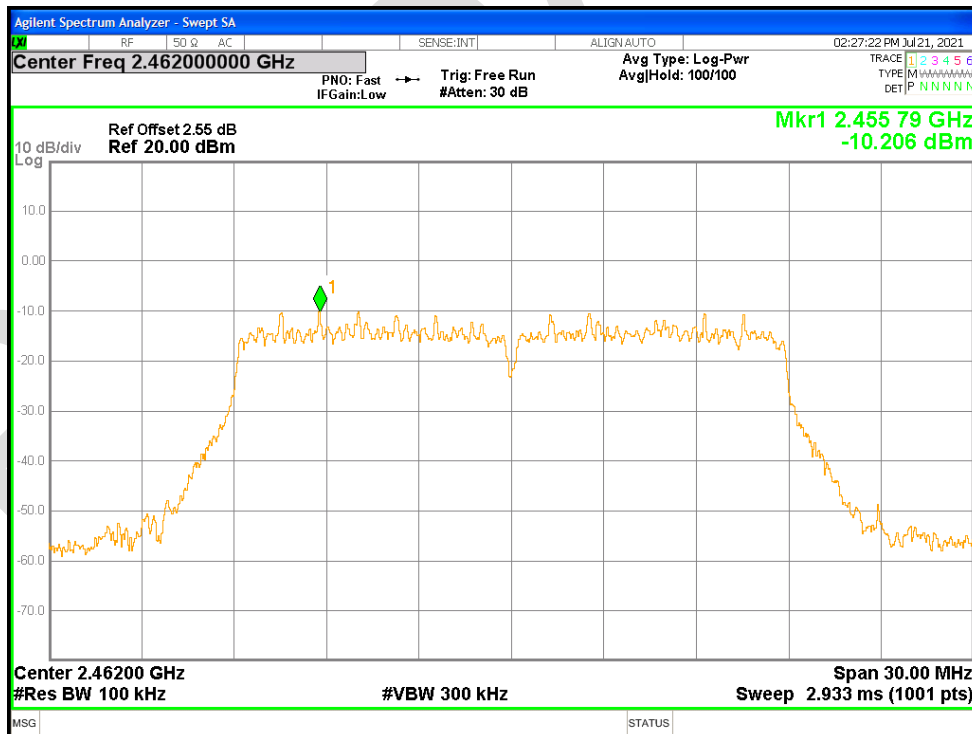
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



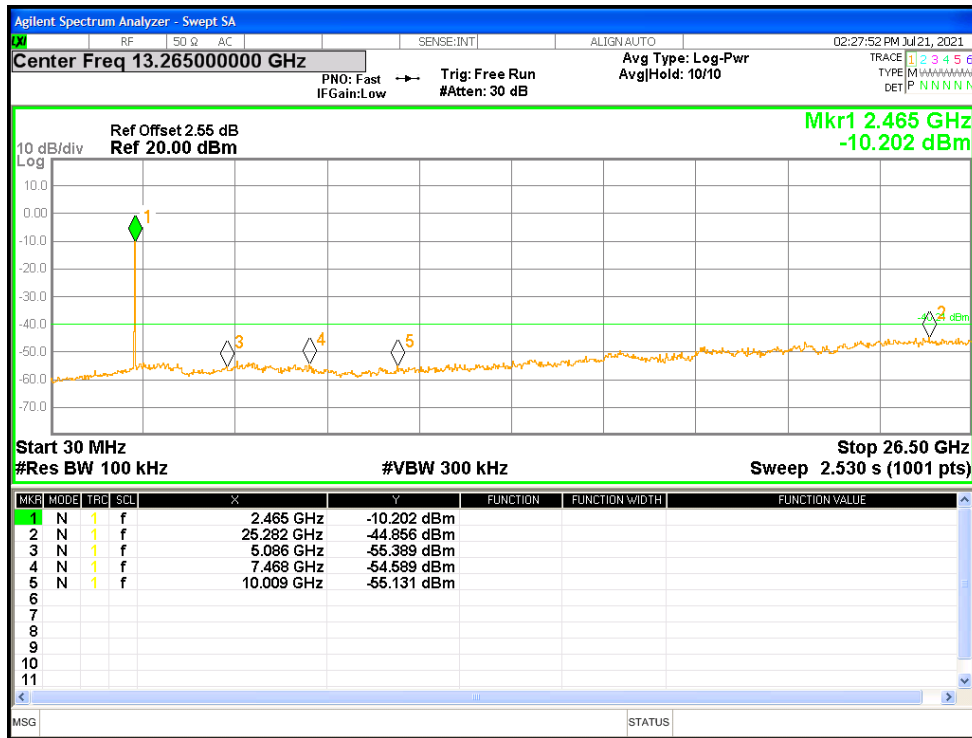
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



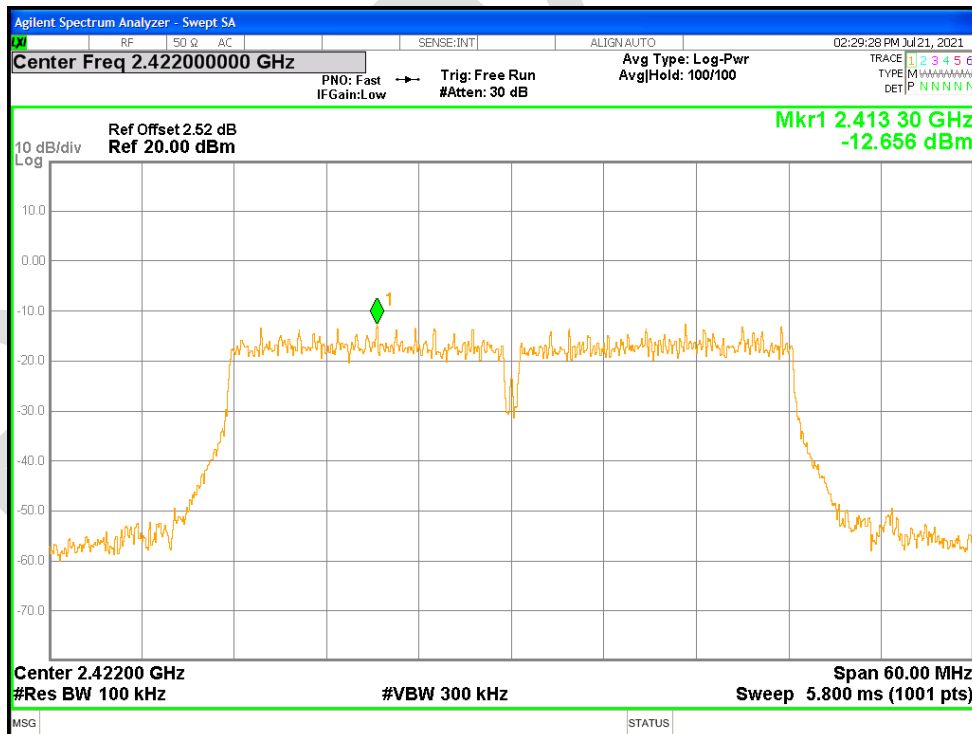
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



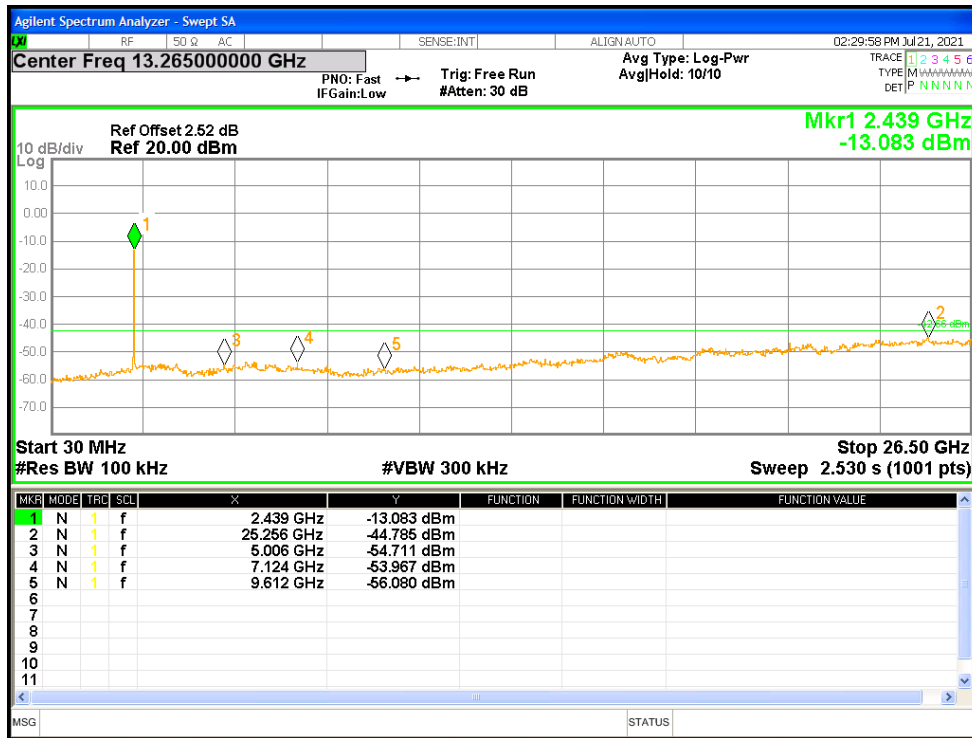
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



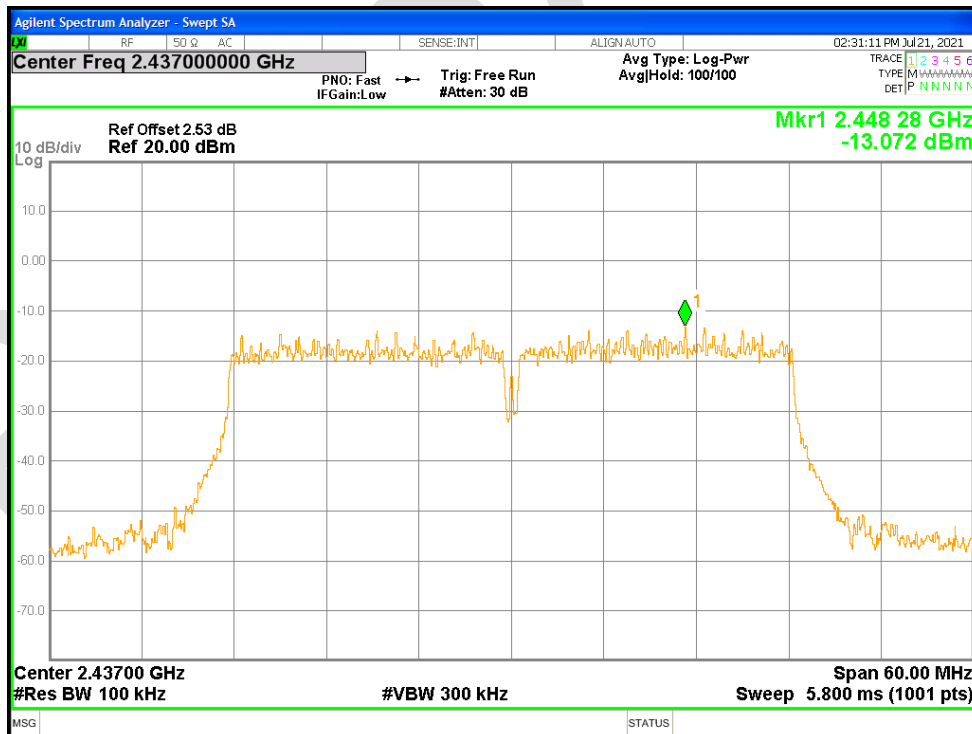
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



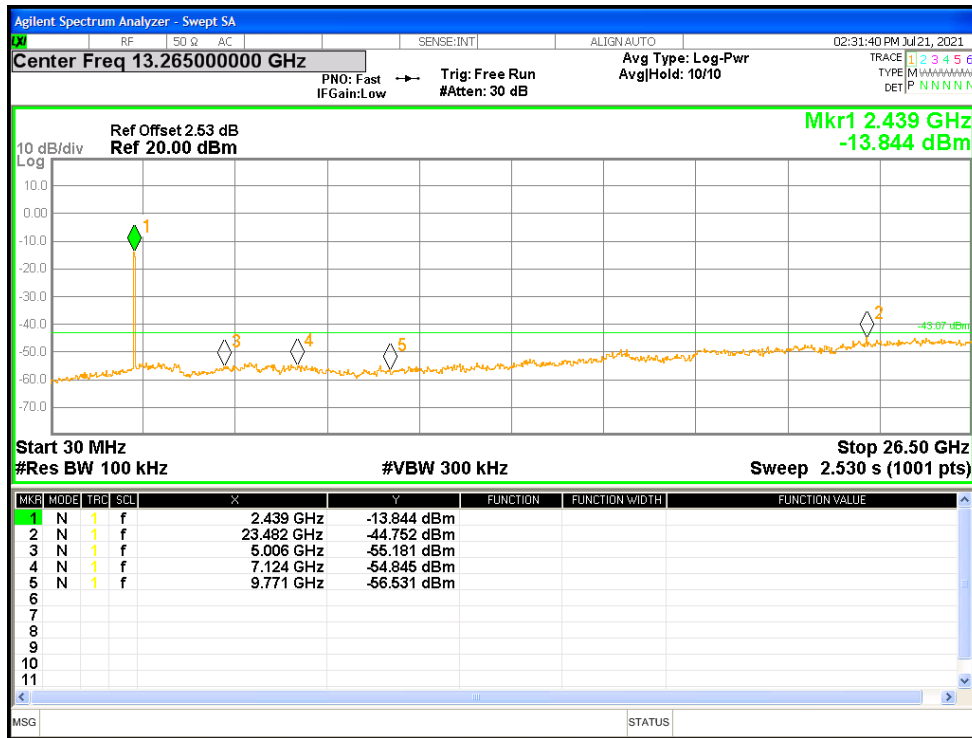
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



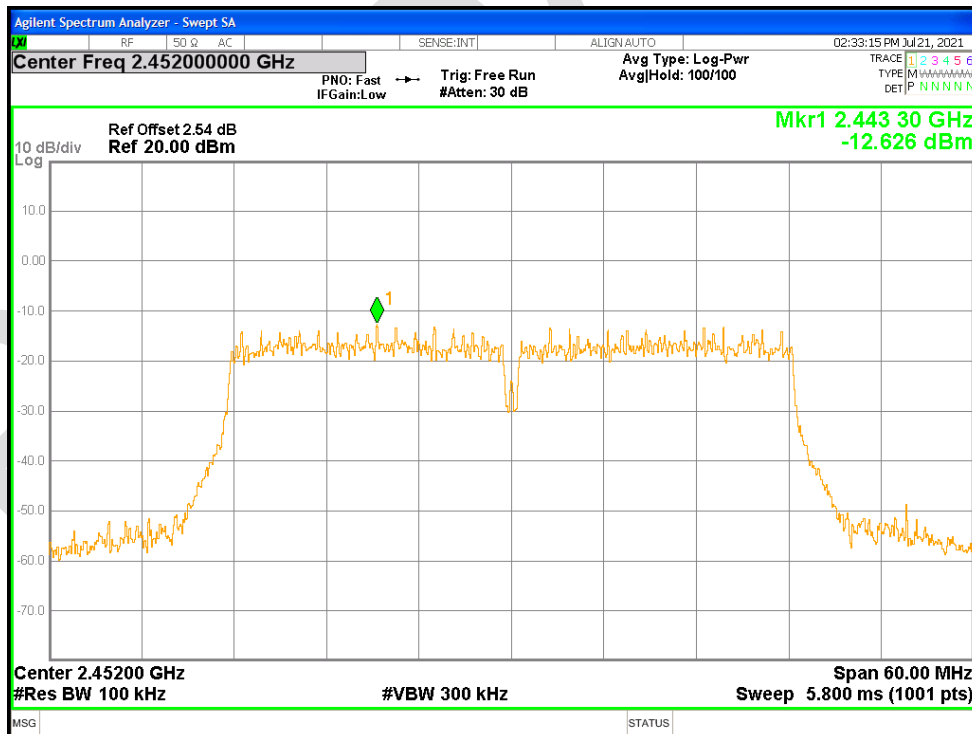
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



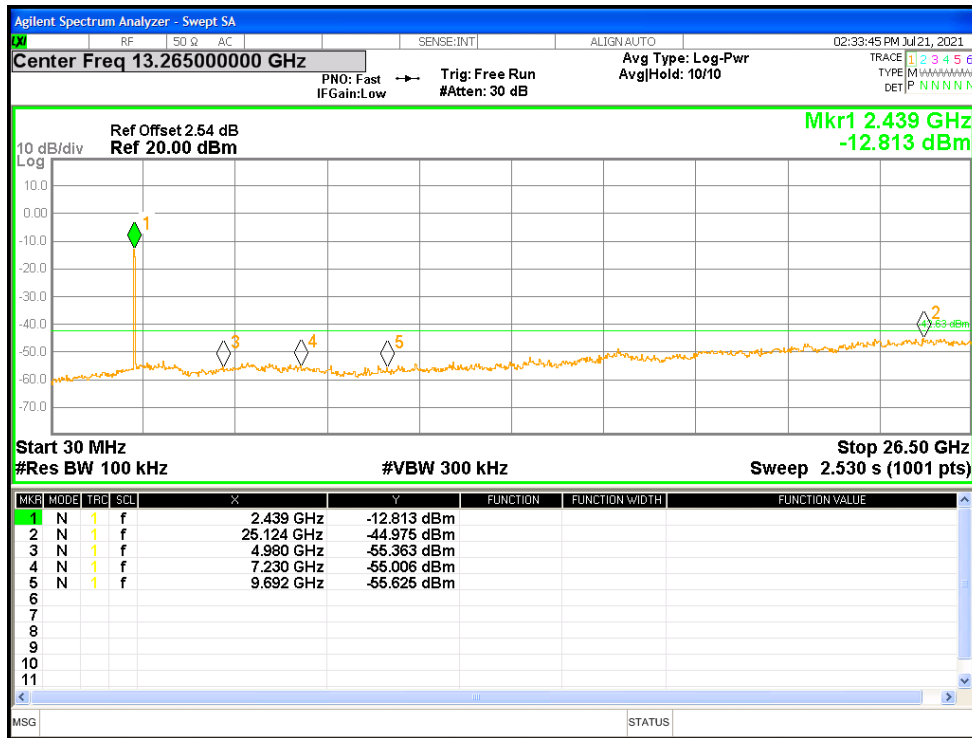
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref

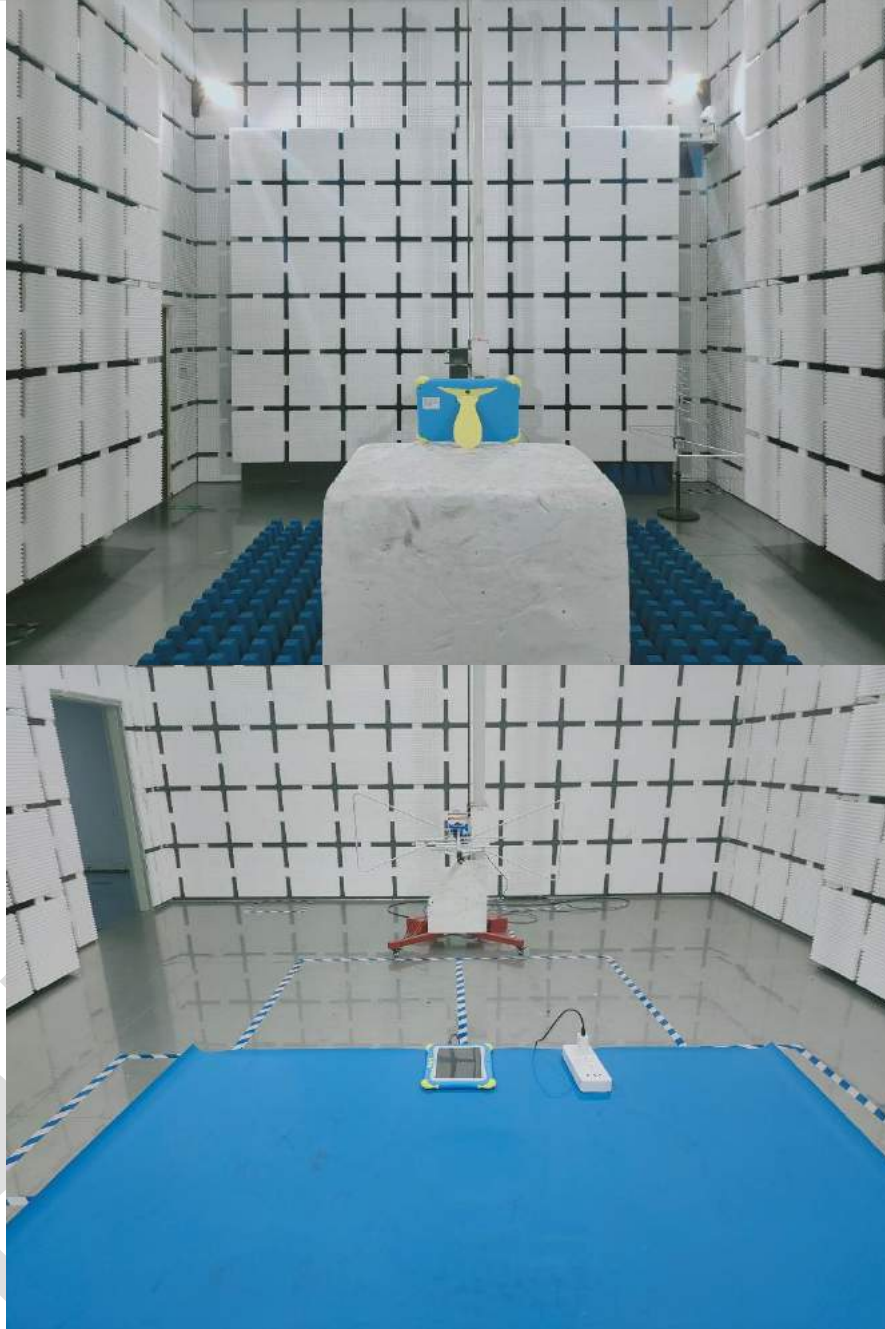


Tx. Spurious NVNT n40 2452MHz Ant1 Emission



APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Radiated Spurious Emissions



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



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----END OF REPORT----

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