TEST REPORT

Product Name	:	Android Tv Box
Brand Mark	:	Eon Samrt Box
FCC ID	:	2AUWA-ATV4K85198
Model No.	:	SDOTT0202
Report Number	:	BLA-EMC-202107-A7504
Date of Sample Receipt	:	2021/7/19
Date of Test	:	2021/7/19 to 2021/8/18
Date of Issue	:	2021/8/18
Test Standard	:	47 CFR Part 15, Subpart C 15.247
Test Result	:	Pass

Prepared for:

Shenzhen SDMC Technology Co.,Ltd.
7/F, W2-A, Hi-Tech, Industrial Park, Nanshan District

Prepared by:

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Approved by: Blue Zhong

Date: 2021/8/18

BlueAsia of Technical Services(Shenzhen) Co., Ltd. BLA

REPORT REVISE RECORD

Version No.	Date	Description
00	2021/8/18	Original

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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 POWER SPECTRUM DENSITY....12
10.1 LIMITS....12
10.2 BLOCK DIAGRAM OF TEST SETUP....12
10.3 TEST DATA....12
11 CONDUCTED PEAK OUTPUT POWER....13
11.1 LIMITS....13
11.2 BLOCK DIAGRAM OF TEST SETUP....13
11.3 TEST DATA....14
12 MINIMUM 6DB BANDWIDTH....15
12.1 LIMITS....15
12.2 BLOCK DIAGRAM OF TEST SETUP....15
12.3 TEST DATA....15
13 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)....16
13.1 LIMITS....16
13.2 BLOCK DIAGRAM OF TEST SETUP....16
13.3 PROCEDURE....16
13.4 TEST DATA....18
14 ANTENNA REQUIREMENT....20
14.1 CONCLUSION....20
15 RADIATED SPURIOUS EMISSIONS....21

BlueAsia

15.1 LIMITS 21
15.2 BLOCK DIAGRAM OF TEST SETUP 22
15.3 PROCEDURE 22
15.4 TEST DATA 24

16 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS 32

16.1 LIMITS 32
16.2 BLOCK DIAGRAM OF TEST SETUP 33
16.3 PROCEDURE 33
16.4 TEST DATA 35

17 CONDUCTED SPURIOUS EMISSIONS 47

17.1 LIMITS 47
17.2 BLOCK DIAGRAM OF TEST SETUP 47
17.3 TEST DATA 48

18 APPENDIX 49

18.1 MAXIMUM CONDUCTED OUTPUT POWER 49
18.2 -6DB BANDWIDTH 56
18.3 OCCUPIED CHANNEL BANDWIDTH 63

APPENDIX A: PHOTOGRAPHS OF EUT 99

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
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
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

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2 GENERAL INFORMATION

Applicant	Shenzhen SDMC Technology Co.,Ltd.
Address	7/F,W2-A,Hi-Tech,Industrial Park,Nanshan District
Manufacturer	Shenzhen SDMC Technology Co.,Ltd.
Address	7/F,W2-A,Hi-Tech,Industrial Park,Nanshan District
Factory	NA
Address	NA
Product Name	Android Tv Box
Test Model No.	SDOTT0202

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	V2
Software Version	9.3.68 & 9.3.69

Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
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
Antenna Type:	Patch antenna
Antenna Gain:	ANT1 3.04dBi, ANT2 2.99dBi(Provided by the applicant)

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4 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25°C	DC12V

5 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
TX	Keep the EUT in transmitting mode with modulation(>98% Duty cycle)
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

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7 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
AC/DC ADAPTOR	Zhuzhou Dachuan Electronic Technology Co., Ltd.	DCT12W120100US-A0	PPPPPPPYYMMDDXXXXXX	100~240Vac 50/60Hz 0.3A Max. Output12V1A
Power adapter	Dongguan Sunun Power Co., Ltd	SA12BV-120100U	340-500-283	100~240Vac 50/60Hz 0.4A Max. Output12V1A
MONITOR	DELL	S2817Q	N/A	N/A
HDMI Cable	Shenzhen Xinhongya Electronics Co. , Ltd.	HDMI cable	D6243-X Y-H053	L=1500MM

8 LABORATORY LOCATION

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

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9 TEST INSTRUMENTS LIST

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**

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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

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

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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

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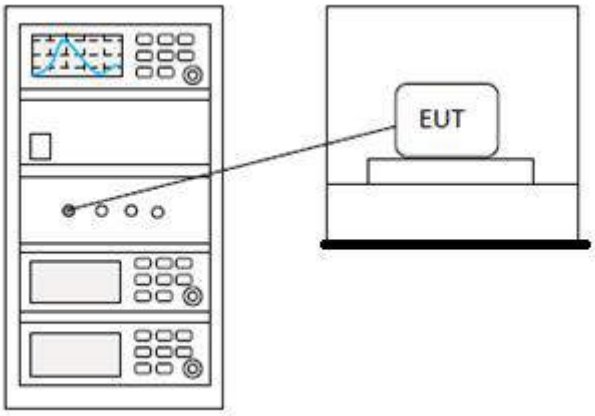
10 POWER SPECTRUM DENSITY

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℃
Humidity	52%

10.1 LIMITS

Limit:	≤8dBm in any 3 kHz band during any time interval of continuous transmission

10.2 BLOCK DIAGRAM OF TEST SETUP



10.3 TEST DATA

Pass: Please Refer To Appendix: For Details

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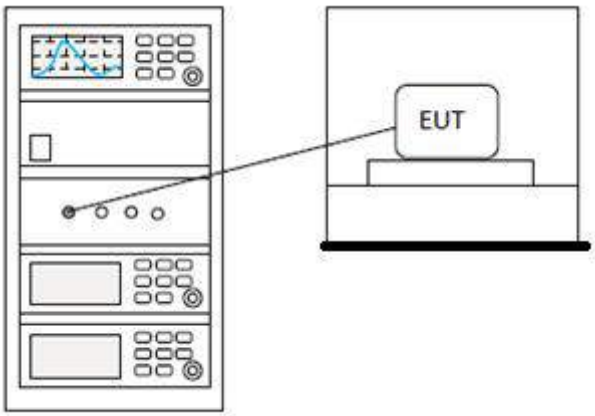
11 CONDUCTED PEAK OUTPUT POWER

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℃
Humidity	52%

11.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ 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

11.2 BLOCK DIAGRAM OF TEST SETUP



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11.3 TEST DATA

Pass: Please Refer To Appendix: For Details

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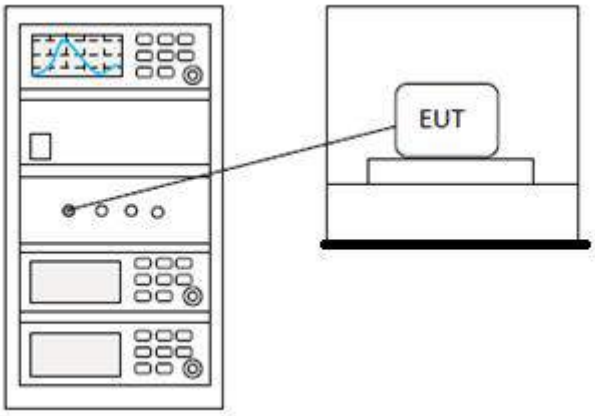
12 MINIMUM 6DB BANDWIDTH

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℃
Humidity	52%

12.1 LIMITS

Limit:	≥500 kHz

12.2 BLOCK DIAGRAM OF TEST SETUP



12.3 TEST DATA

Pass: Please Refer To Appendix: For Details

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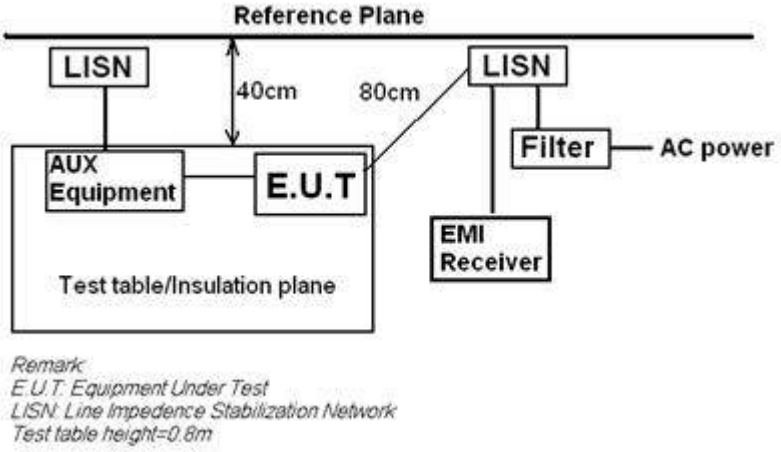
13 CONDUCTED EMISSIONS AT AC POWER LINE (150KHZ-30MHZ)

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℃
Humidity	52%

13.1 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.		

13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 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.

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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

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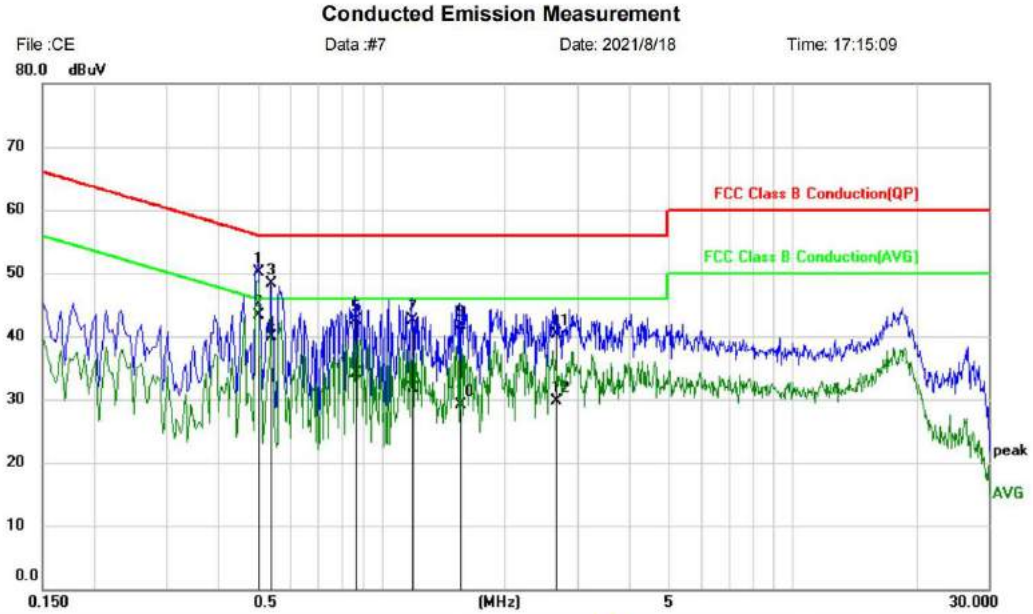
13.4 TEST DATA

[TestMode: TX]; [Line: Line] [Power:120V/60Hz]



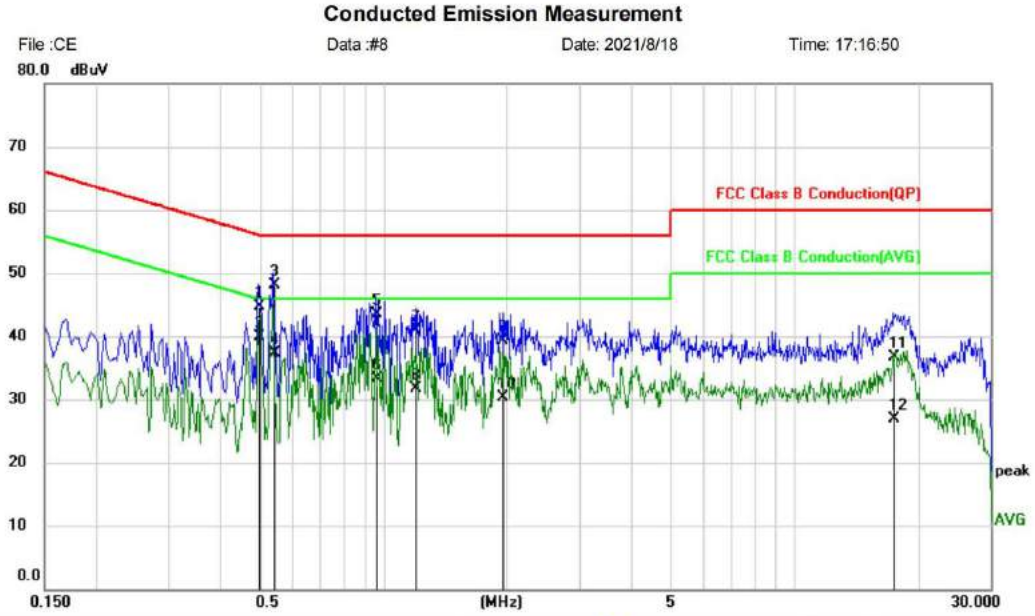
Site
Phase: L1
Temperature:
Limit: FCC Class B Conduction(QP)
Power:
Humidity: %
EUT: Android Tv Box
M/N: SDOTT0202
Mode: TX
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.5020	40.33	9.87	50.20	56.00	-5.80	QP	
2	*	0.5020	33.42	9.87	43.29	46.00	-2.71	AVG	
3		0.5380	38.34	9.87	48.21	56.00	-7.79	QP	
4		0.5380	30.09	9.87	39.96	46.00	-6.04	AVG	
5		0.8620	32.67	9.91	42.58	56.00	-13.42	QP	
6		0.8620	24.23	9.91	34.14	46.00	-11.86	AVG	
7		1.1900	32.65	9.92	42.57	56.00	-13.43	QP	
8		1.1900	21.71	9.92	31.63	46.00	-14.37	AVG	
9		1.5580	31.87	9.93	41.80	56.00	-14.20	QP	
10		1.5580	19.25	9.93	29.18	46.00	-16.82	AVG	
11		2.6580	30.38	9.96	40.34	56.00	-15.66	QP	
12		2.6580	19.82	9.96	29.78	46.00	-16.22	AVG	

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

Test Result: Pass

[TestMode: TX]; [Line: Nutral] [Power:120V/60Hz]



Site | Phase: N | Temperature:
Limit: FCC Class B Conduction(QP) | Power: | Humidity: %
EUT: Android Tv Box
M/N: SDOTT0202
Mode: TX
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.4980	34.90	9.79	44.69	56.03	-11.34	QP	
2	*	0.4980	30.15	9.79	39.94	46.03	-6.09	AVG	
3		0.5420	38.34	9.79	48.13	56.00	-7.87	QP	
4		0.5420	27.46	9.79	37.25	46.00	-8.75	AVG	
5		0.9620	33.68	9.84	43.52	56.00	-12.48	QP	
6		0.9620	23.50	9.84	33.34	46.00	-12.66	AVG	
7		1.2020	31.09	9.84	40.93	56.00	-15.07	QP	
8		1.2020	21.88	9.84	31.72	46.00	-14.28	AVG	
9		1.9580	29.40	9.86	39.26	56.00	-16.74	QP	
10		1.9580	20.51	9.86	30.37	46.00	-15.63	AVG	
11		17.4660	26.43	10.36	36.79	60.00	-23.21	QP	
12		17.4660	16.45	10.36	26.81	50.00	-23.19	AVG	

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

Test Result: Pass

14 ANTENNA REQUIREMENT

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

14.1 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 a 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 3.04dBi and 2.99dBi.

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15 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℃
Humidity	52%

15.1 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.

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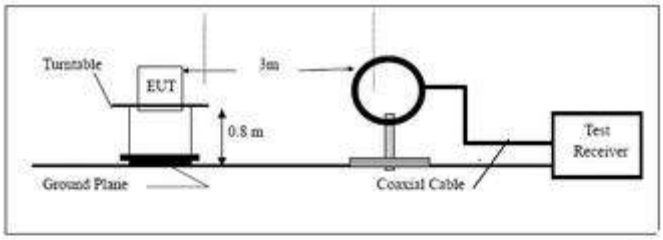
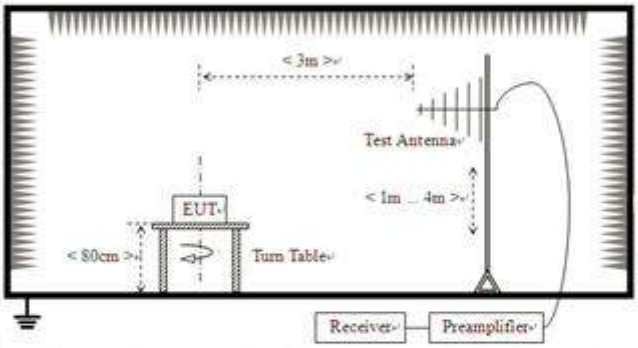
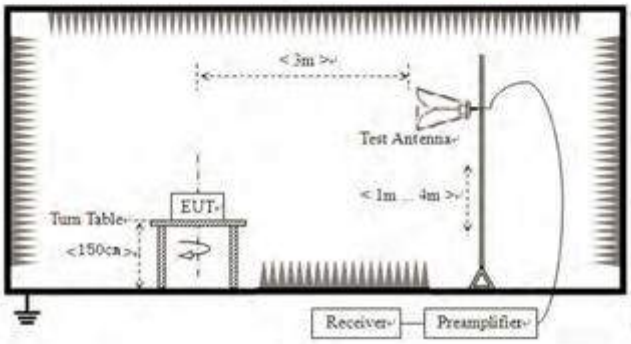
15.2 BLOCK DIAGRAM OF TEST SETUP







15.3 PROCEDURE

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

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

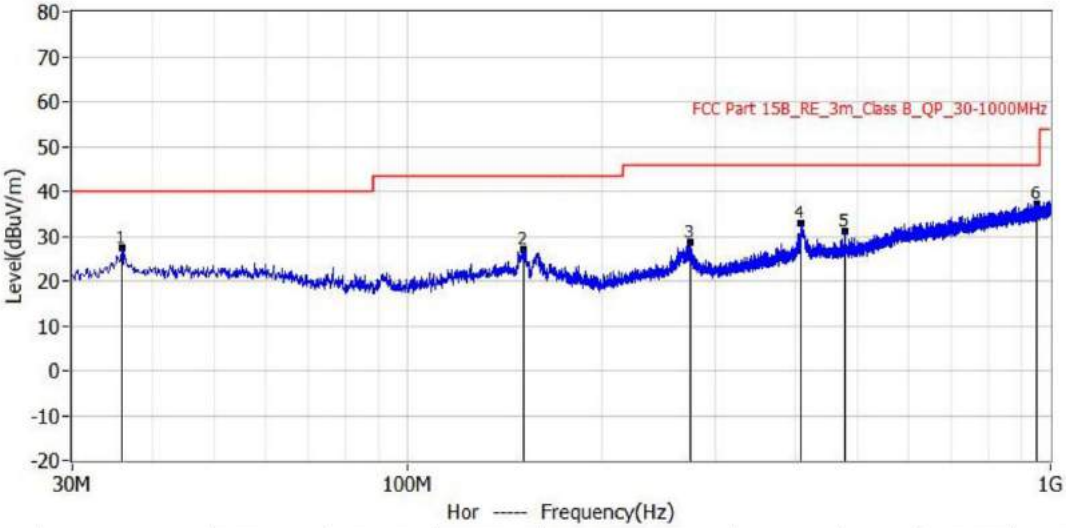
Remark:
1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
3) Scan from 9kHz to 25GHz, the disturbance above 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.

BlueAsia

15.4 TEST DATA

[TestMode: TX]; [Polarity: Horizontal]

Test Lab: BlueAsia EMC Lab（RE #1）	Project: BLA-EMC-202107-A75-1
EUT: Android TV Box	Test Engineer:
M/N: SDOTT0202	Temperature:
S/N:	Humidity:
Test Mode: TX mode	Test Voltage:
Note:	Test Data: 2021-08-10 14:39:01

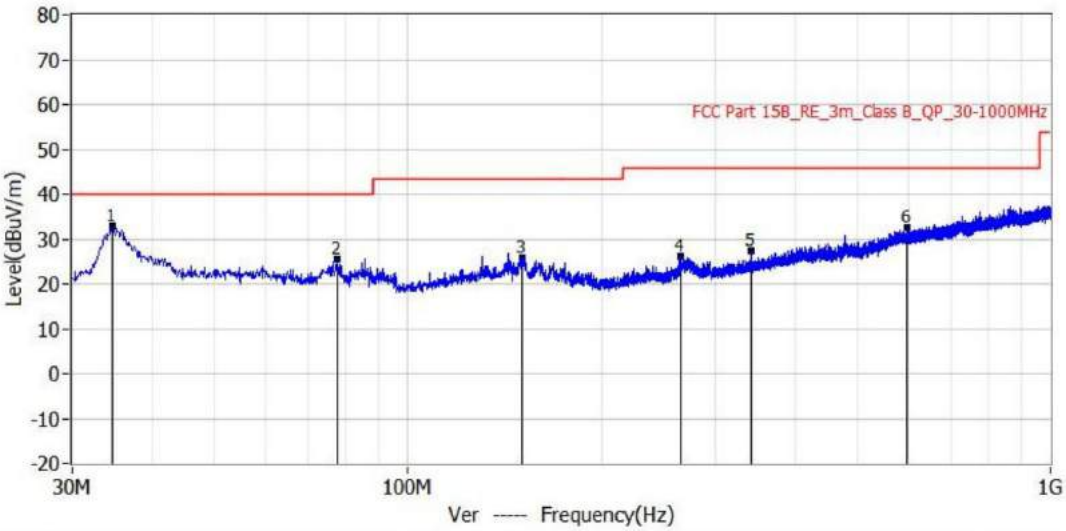


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	35.820MHz	40.0	27.4	-12.6	3.7	23.7	QP	Hor		
2*	151.250MHz	43.5	27.0	-16.5	3.5	23.5	QP	Hor		
3*	274.804MHz	46.0	28.6	-17.4	5.3	23.3	QP	Hor		
4*	409.513MHz	46.0	32.9	-13.1	5.5	27.4	QP	Hor		
5*	479.231MHz	46.0	31.1	-14.9	2.9	28.2	QP	Hor		
6*	953.683MHz	46.0	37.3	-8.7	1.7	35.6	QP	Hor		

Test Result: Pass

[TestMode: TX]; [Polarity: Vertical]

Test Lab: BlueAsia EMC Lab（RE #1）	Project: BLA-EMC-202107-A75-1
EUT: Android TV Box	Test Engineer:
M/N: SDOTT0202	Temperature:
S/N:	Humidity:
Test Mode: TX mode	Test Voltage:
Note:	Test Data: 2021-08-10 14:41:04

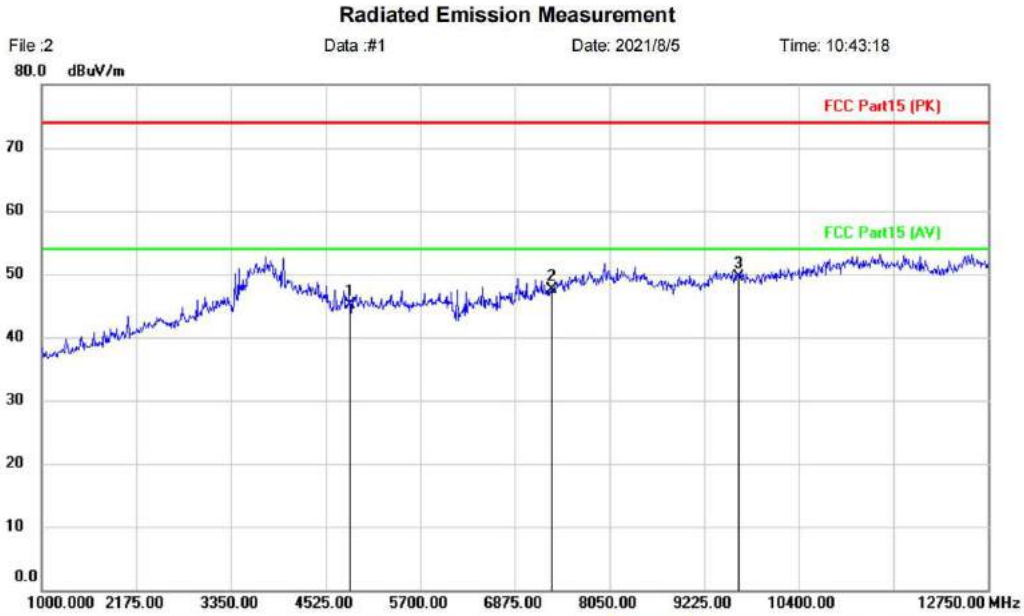


No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV	Factor dB/m	Detector	Polar	Height cm	Angle deg
1*	34.608MHz	40.0	32.8	-7.2	9.3	23.5	QP	Ver		
2*	77.651MHz	40.0	25.5	-14.5	5.3	20.2	QP	Ver		
3*	150.159MHz	43.5	25.8	-17.7	2.3	23.5	QP	Ver		
4*	265.104MHz	46.0	26.1	-19.9	3.2	22.9	QP	Ver		
5*	342.340MHz	46.0	27.5	-18.5	2.1	25.4	QP	Ver		
6*	599.269MHz	46.0	32.7	-13.3	1.5	31.2	QP	Ver		

Test Result: Pass

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

[TestMode: 802.11b-2412]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: B-2412
Note:

Polarization: ***Horizontal***
Power:
Distance:

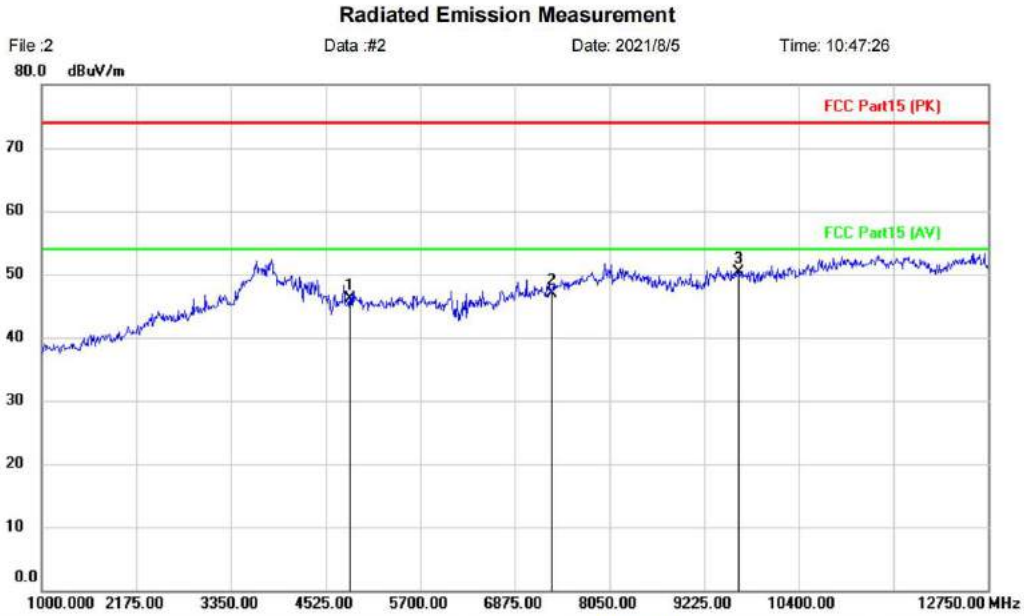
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4824.000	41.45	3.62	45.07	74.00	-28.93	peak			
2		7326.000	41.03	6.44	47.47	74.00	-26.53	peak			
3	*	9648.000	40.05	9.37	49.42	74.00	-24.58	peak			

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

Test Result: Pass

[TestMode: 802.11b-2412]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: B-2412
Note:

Polarization: ***Vertical***
Power:
Distance:

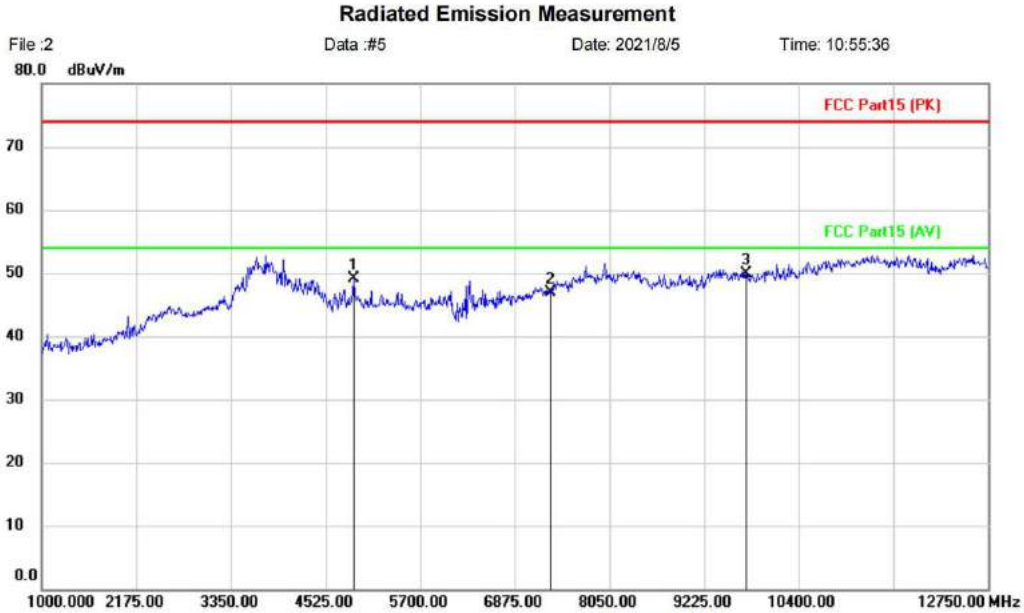
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4824.000	42.55	3.62	46.17	74.00	-27.83	peak			
2		7326.000	40.49	6.44	46.93	74.00	-27.07	peak			
3	*	9648.000	40.93	9.37	50.30	74.00	-23.70	peak			

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

Test Result: Pass

[TestMode: 802.11b-2437]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: B-2437
Note:

Polarization: ***Horizontal***
Power:
Distance:

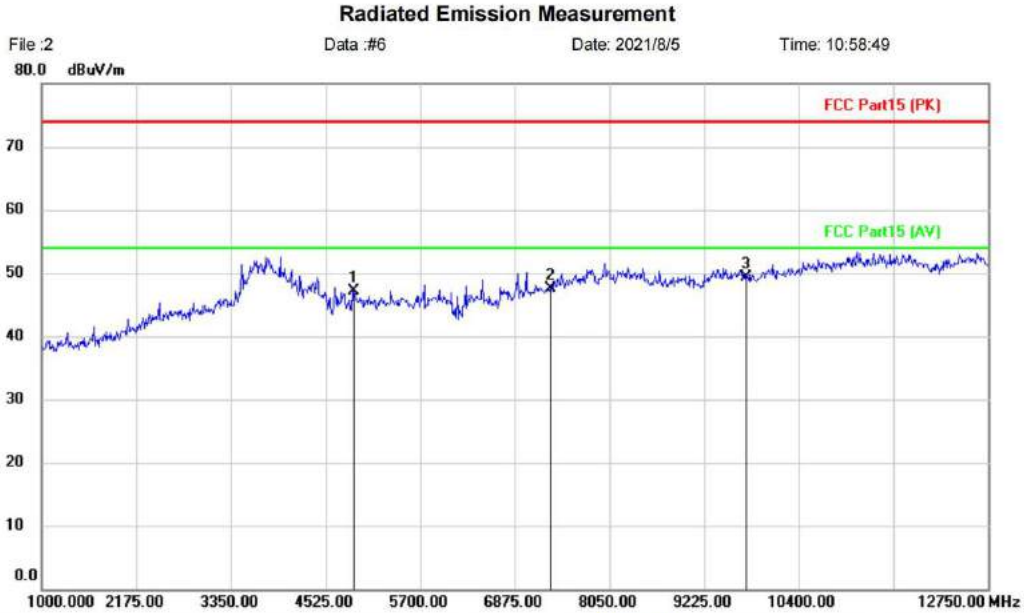
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4874.000	45.63	3.39	49.02	74.00	-24.98	peak			
2		7311.000	40.62	6.37	46.99	74.00	-27.01	peak			
3	*	9748.000	40.27	9.59	49.86	74.00	-24.14	peak			

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

Test Result: Pass

[TestMode: 802.11b-2437]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: B-2437
Note:

Polarization: *Vertical*
Power:
Distance:

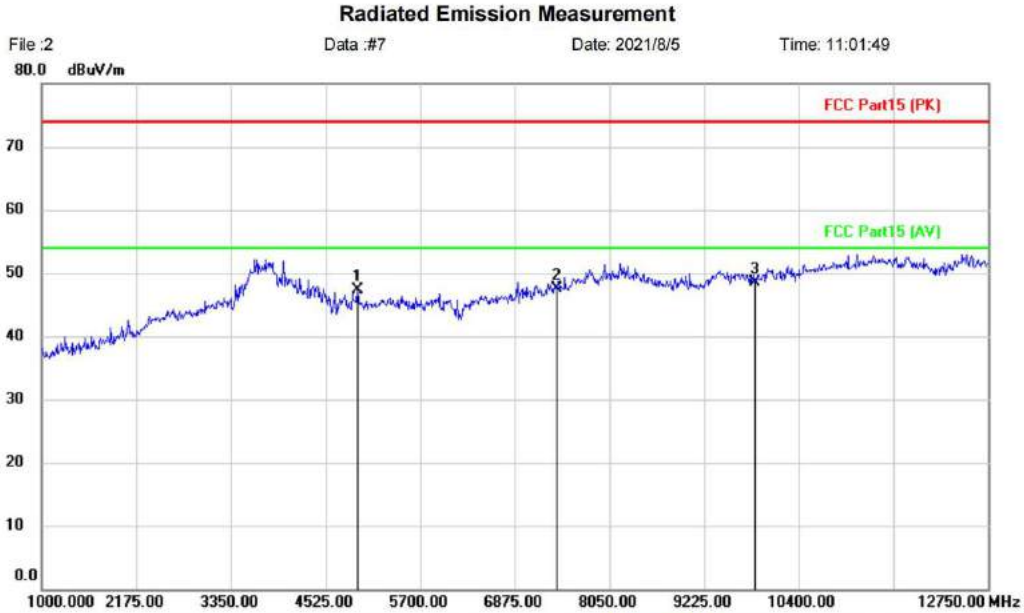
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4874.000	43.74	3.39	47.13	74.00	-26.87	peak			
2		7311.000	41.04	6.37	47.41	74.00	-26.59	peak			
3	*	9748.000	39.77	9.59	49.36	74.00	-24.64	peak			

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

Test Result: Pass

[TestMode: 802.11b-2462]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: B-2462
Note:

Polarization: ***Horizontal***
Power:
Distance:

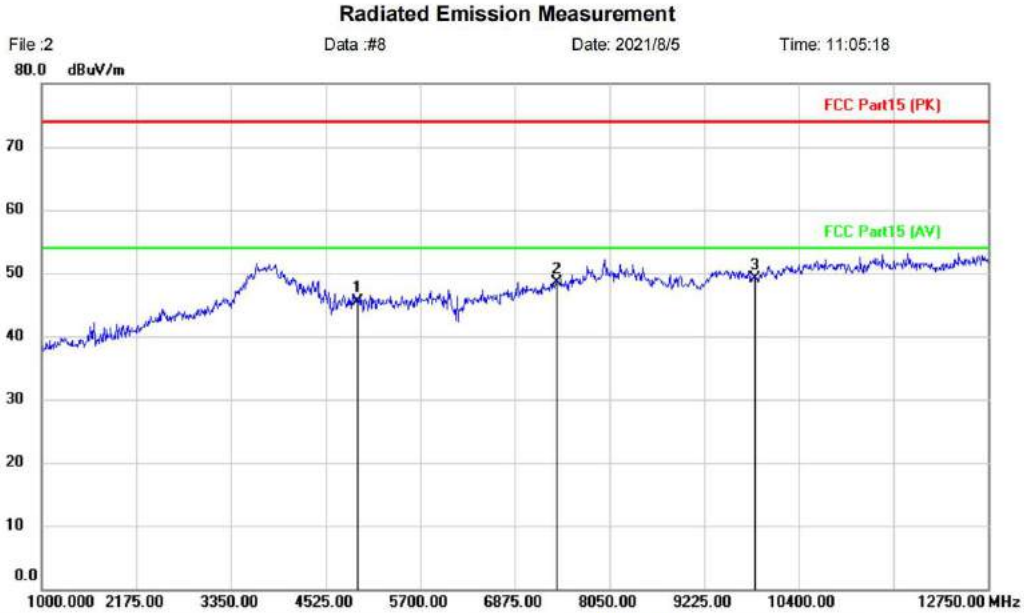
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4924.000	43.85	3.46	47.31	74.00	-26.69	peak			
2		7386.000	40.76	6.68	47.44	74.00	-26.56	peak			
3	*	9848.000	38.60	9.88	48.48	74.00	-25.52	peak			

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

Test Result: Pass

[TestMode: 802.11b-2462]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: B-2462
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4924.000	42.03	3.46	45.49	74.00	-28.51	peak			
2		7386.000	41.75	6.68	48.43	74.00	-25.57	peak			
3	*	9848.000	39.23	9.88	49.11	74.00	-24.89	peak			

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

Test Result: Pass

16 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℃
Humidity	52%

16.1 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.

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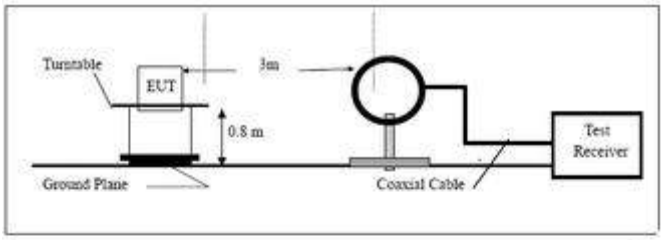
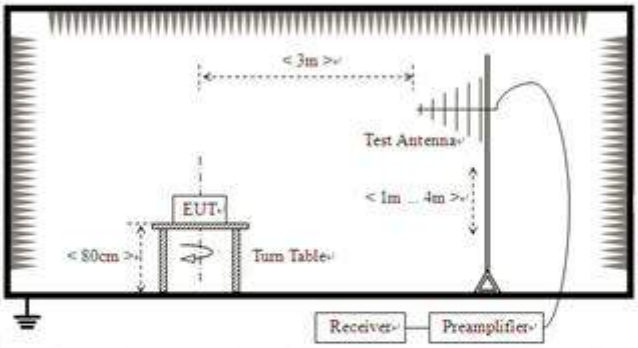
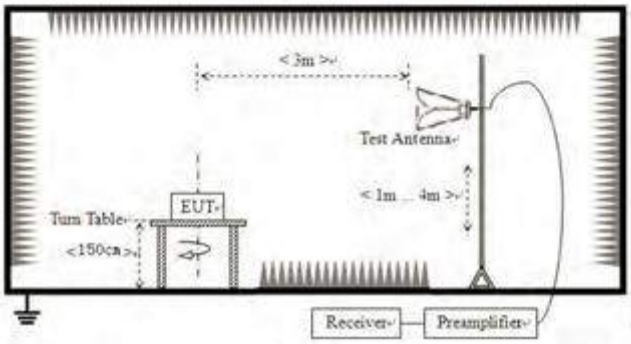
16.2 BLOCK DIAGRAM OF TEST SETUP







16.3 PROCEDURE

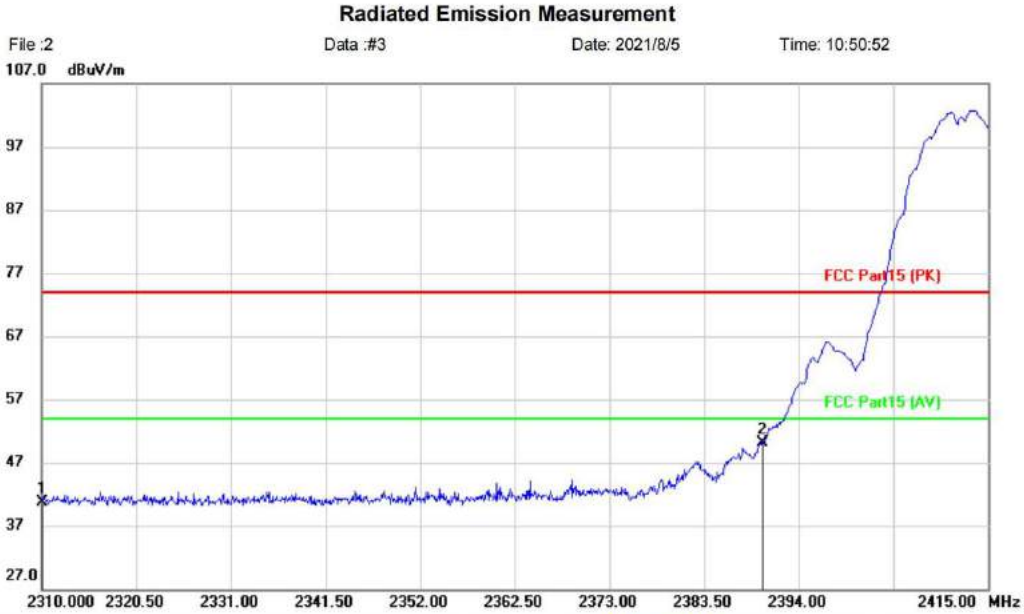
a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
j. Repeat above procedures until all frequencies measured was complete.
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

BlueAsia

16.4 TEST DATA

[TestMode: 802.11b-2412]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: B-2412
Note:

Polarization: ***Horizontal***
Power:
Distance:

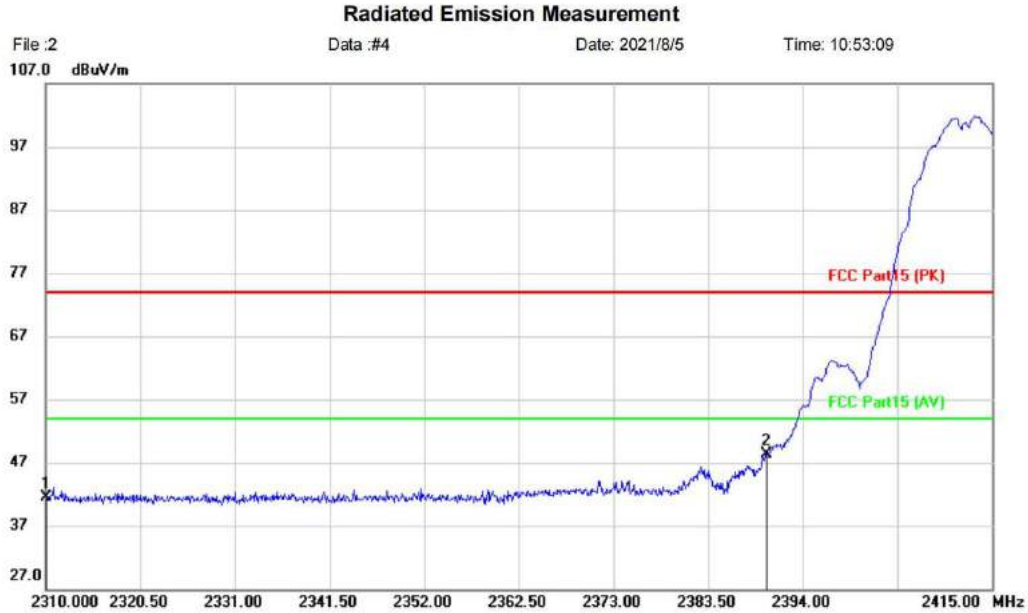
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	45.41	-4.61	40.80	74.00	-33.20	peak			
2	*	2390.000	54.39	-4.27	50.12	74.00	-23.88	peak			

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

Test Result: Pass

[TestMode: 802.11b-2412]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: B-2412
Note:

Polarization: *Vertical*
Power:
Distance:

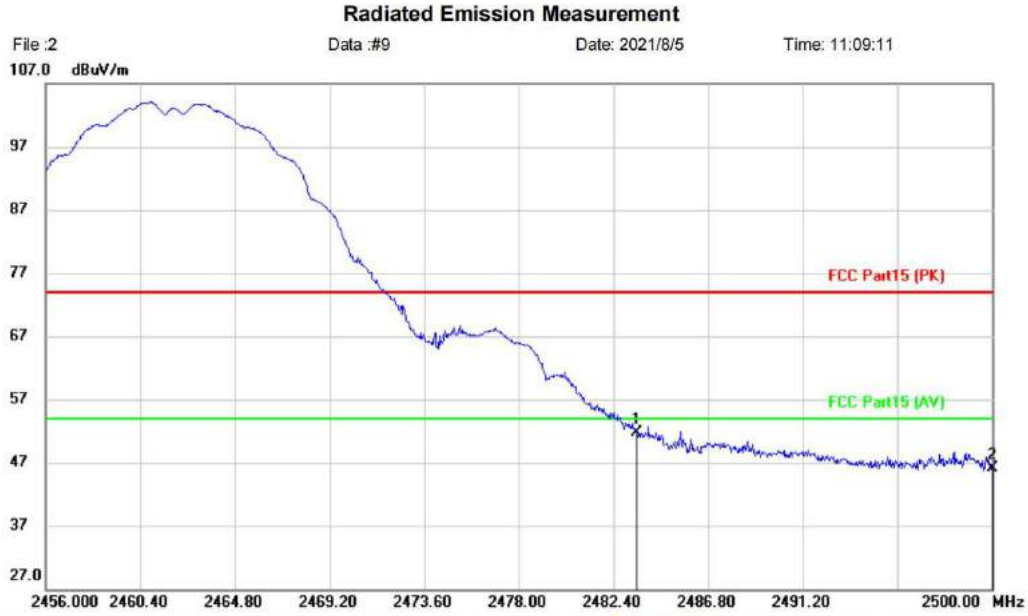
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	46.07	-4.61	41.46	74.00	-32.54	peak			
2	*	2390.000	52.59	-4.27	48.32	74.00	-25.68	peak			

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

Test Result: Pass

[TestMode: 802.11b-2462]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: B-2462
Note:

Polarization: ***Horizontal***
Power:
Distance:

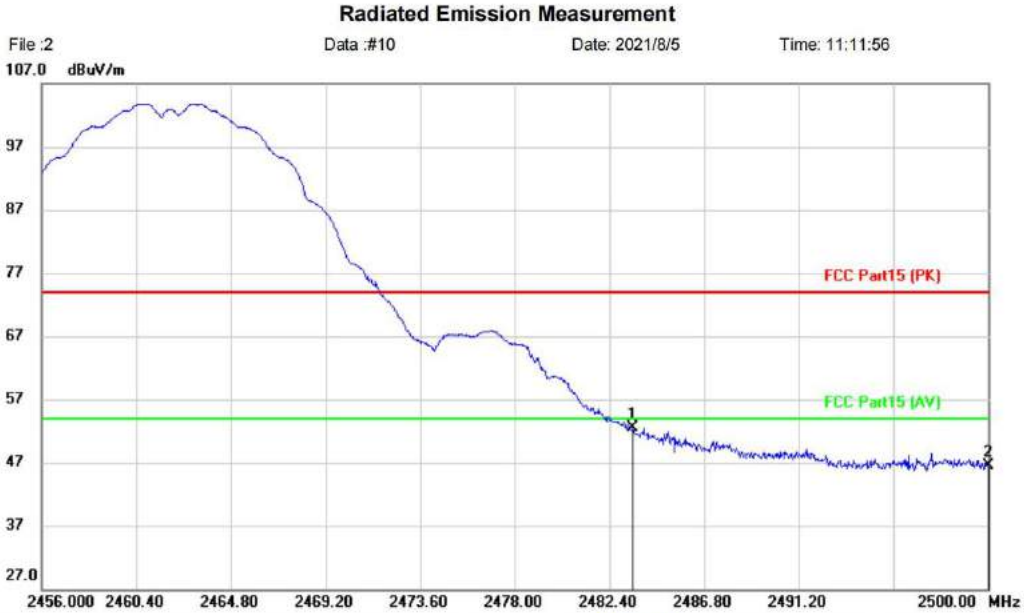
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	55.53	-3.84	51.69	74.00	-22.31	peak			
2		2500.000	49.86	-3.78	46.08	74.00	-27.92	peak			

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

Test Result: Pass

[TestMode: 802.11b-2462]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: B-2462
Note:

Polarization: *Vertical*
Power:
Distance:

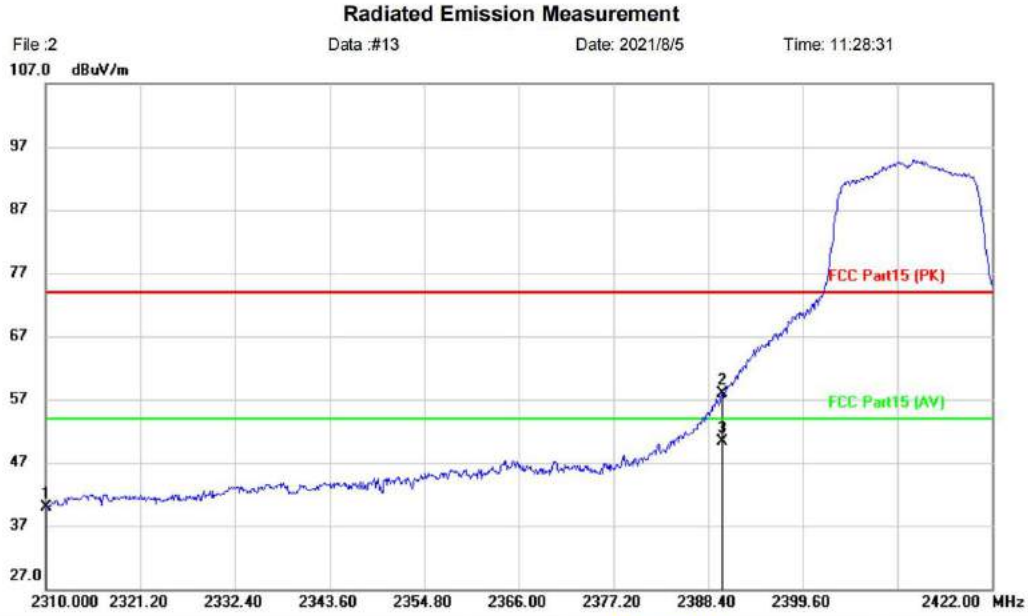
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	56.25	-3.84	52.41	74.00	-21.59	peak			
2		2500.000	50.37	-3.78	46.59	74.00	-27.41	peak			

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

Test Result: Pass

[TestMode: 802.11g-2412]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: G-2412
Note:

Polarization: ***Horizontal***
Power:
Distance:

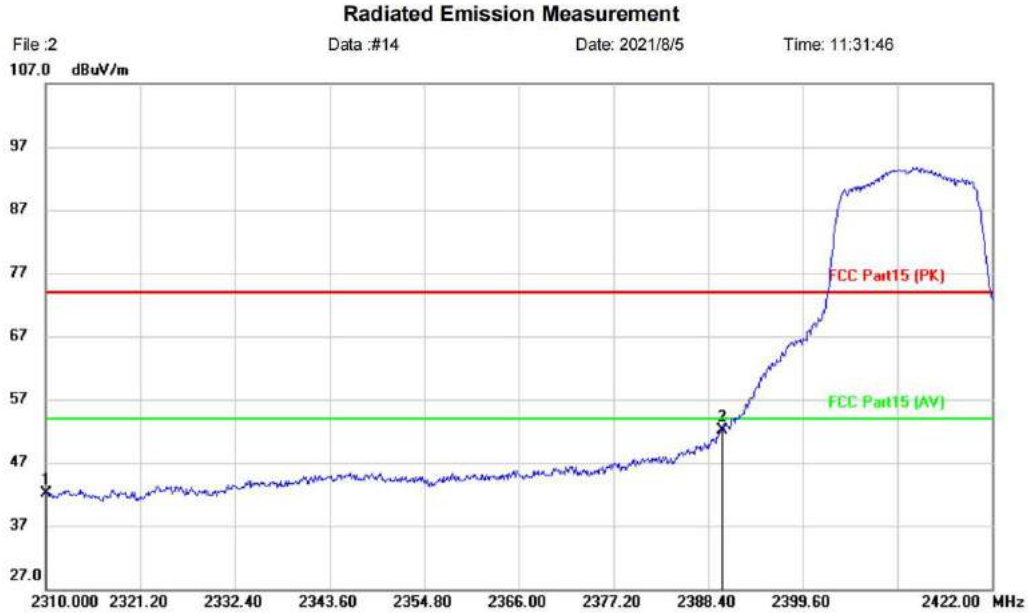
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	44.49	-4.61	39.88	74.00	-34.12	peak			
2		2390.000	62.14	-4.27	57.87	74.00	-16.13	peak			
3	*	2390.000	54.56	-4.27	50.29	54.00	-3.71	AVG			

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

Test Result: Pass

[TestMode: 802.11g-2412]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: G-2412
Note:

Polarization: *Vertical*
Power:
Distance:

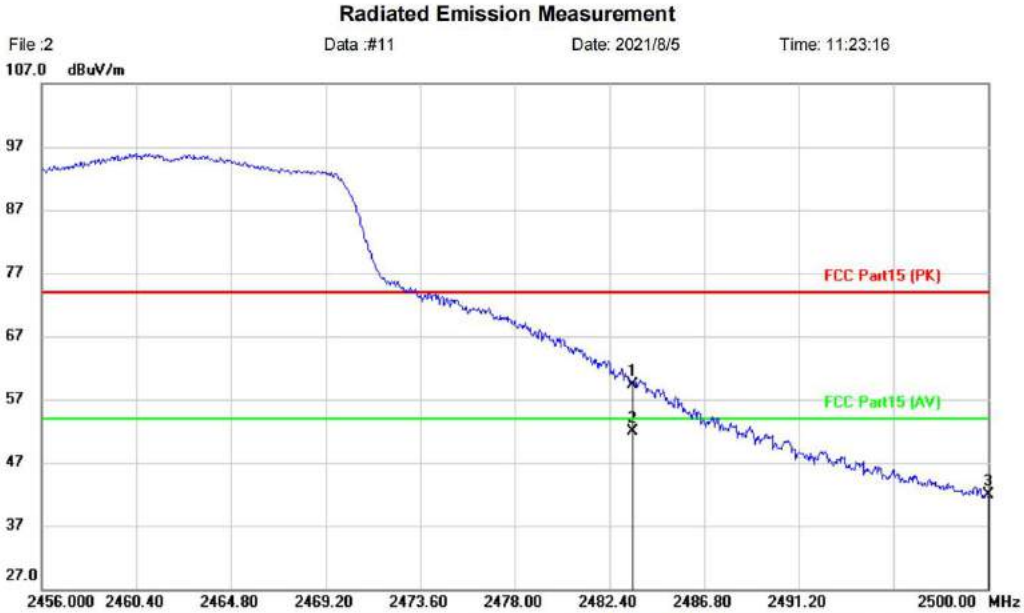
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	46.76	-4.61	42.15	74.00	-31.85	peak			
2	*	2390.000	56.41	-4.27	52.14	74.00	-21.86	peak			

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

Test Result: Pass

[TestMode: 802.11g-2462]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: G-2462
Note:

Polarization: ***Horizontal***
Power:
Distance:

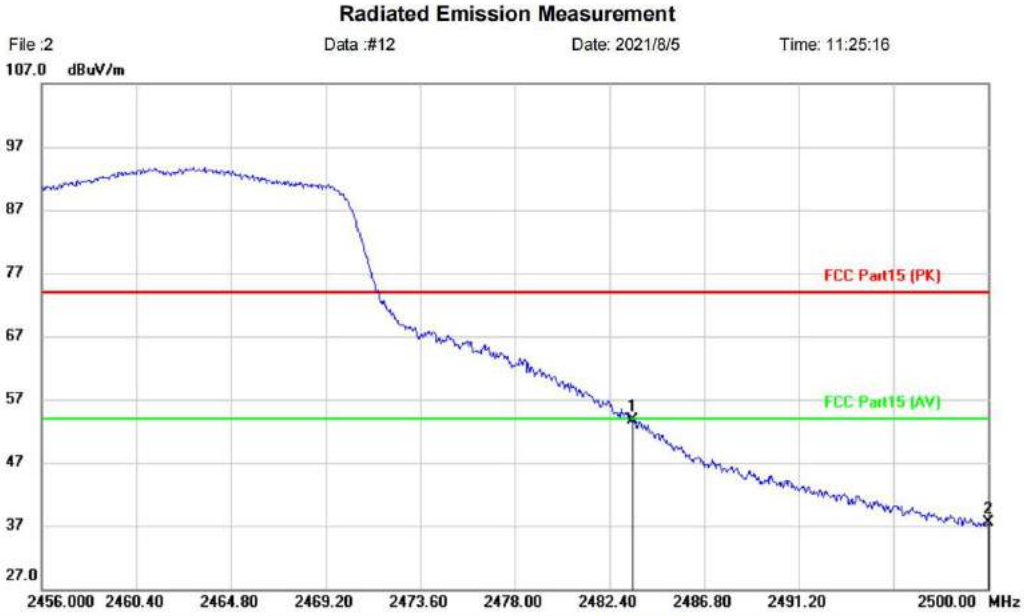
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	63.11	-3.84	59.27	74.00	-14.73	peak			
2	*	2483.500	55.75	-3.84	51.91	54.00	-2.09	AVG			
3		2500.000	45.69	-3.78	41.91	74.00	-32.09	peak			

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

Test Result: Pass

[TestMode: 802.11g-2462]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: G-2462
Note:

Polarization: *Vertical*
Power:
Distance:

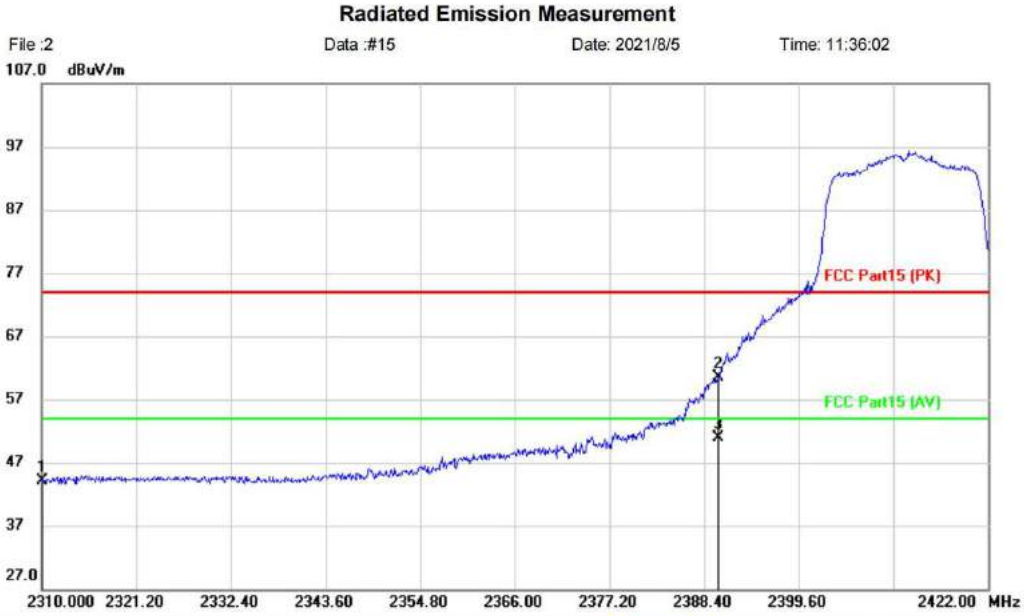
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	57.50	-3.84	53.66	74.00	-20.34	peak			
2		2500.000	41.21	-3.78	37.43	74.00	-36.57	peak			

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

Test Result: Pass

[TestMode: 802.11n20-2412]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: N-2412
Note:

Polarization: ***Horizontal***
Power:
Distance:

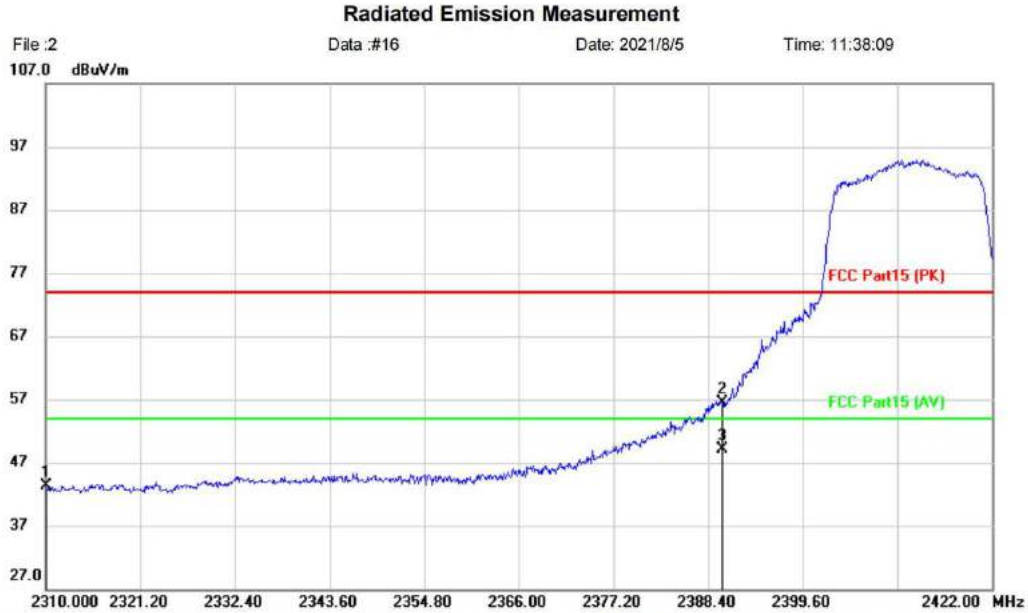
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	48.67	-4.61	44.06	74.00	-29.94	peak			
2		2390.000	64.70	-4.27	60.43	74.00	-13.57	peak			
3	*	2390.000	55.10	-4.27	50.83	54.00	-3.17	AVG			

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

Test Result: Pass

[TestMode: 802.11n20-2412]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: N-2412
Note:

Polarization: *Vertical*
Power:
Distance:

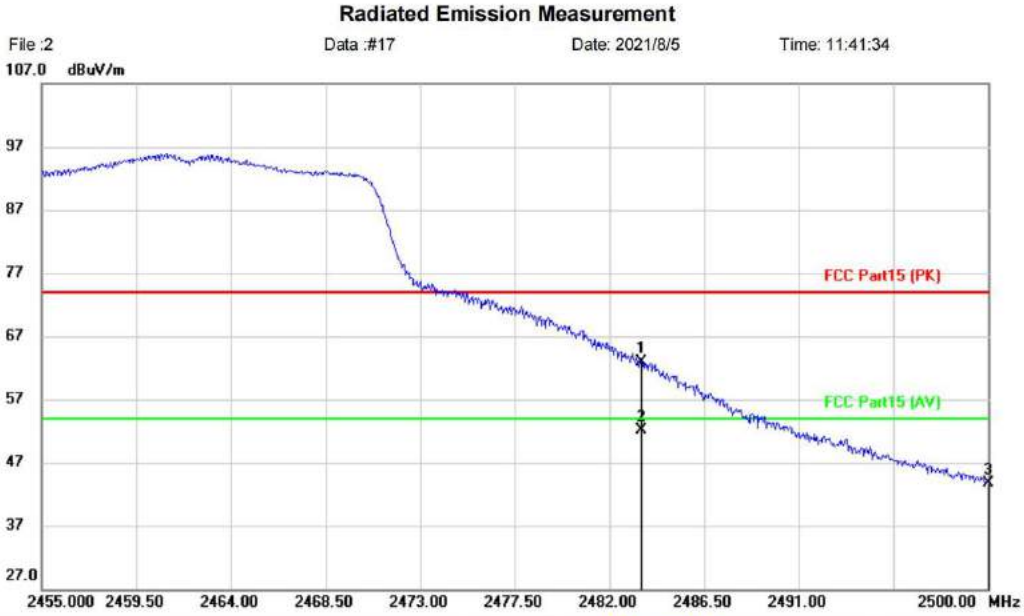
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	47.90	-4.61	43.29	74.00	-30.71	peak			
2		2390.000	60.85	-4.27	56.58	74.00	-17.42	peak			
3	*	2390.000	53.43	-4.27	49.16	54.00	-4.84	AVG			

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

Test Result: Pass

[TestMode: 802.11n20-2462]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: N-2462
Note:

Polarization: ***Horizontal***
Power:
Distance:

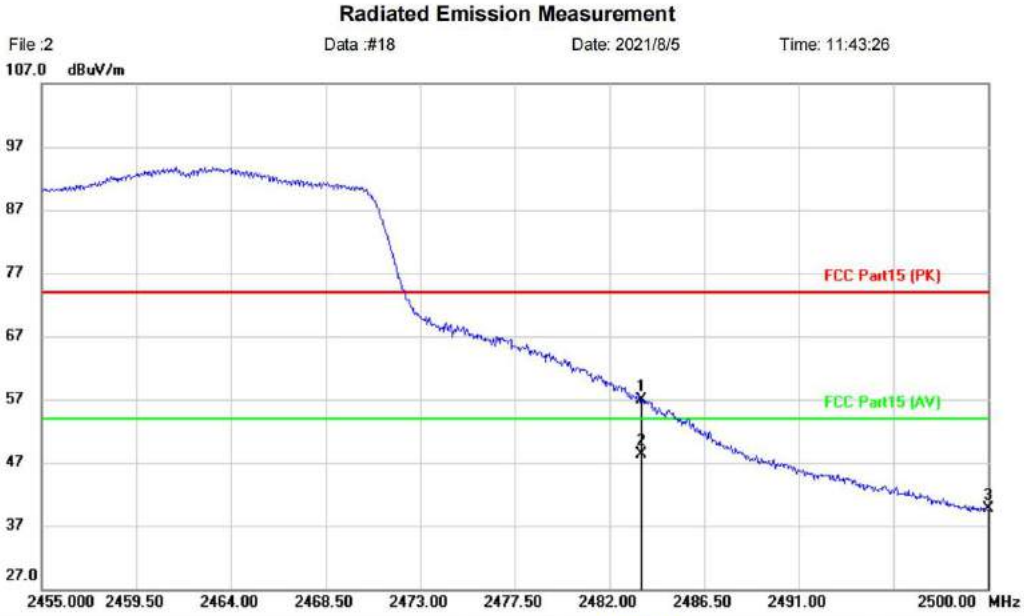
Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	66.84	-3.84	63.00	74.00	-11.00	peak			
2	*	2483.500	55.89	-3.84	52.05	54.00	-1.95	AVG			
3		2500.000	47.45	-3.78	43.67	74.00	-30.33	peak			

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

Test Result: Pass

[TestMode: 802.11n20-2462]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: Android TV Box
M/N: SDOTT0202
Mode: N-2462
Note:

Polarization: *Vertical*
Power:
Distance:

Temperature:
Humidity: %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	60.71	-3.84	56.87	74.00	-17.13	peak			
2	*	2483.500	52.18	-3.84	48.34	54.00	-5.66	AVG			
3		2500.000	43.54	-3.78	39.76	74.00	-34.24	peak			

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

Test Result: Pass

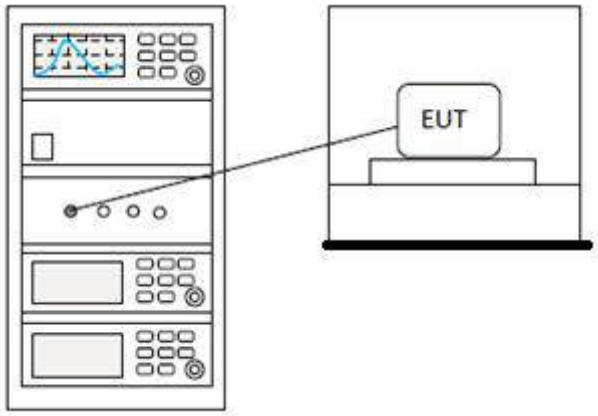
17 CONDUCTED SPURIOUS EMISSIONS

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℃
Humidity	52%

17.1 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)).

17.2 BLOCK DIAGRAM OF TEST SETUP



17.3 TEST DATA

Pass: Please Refer To Appendix: For Details

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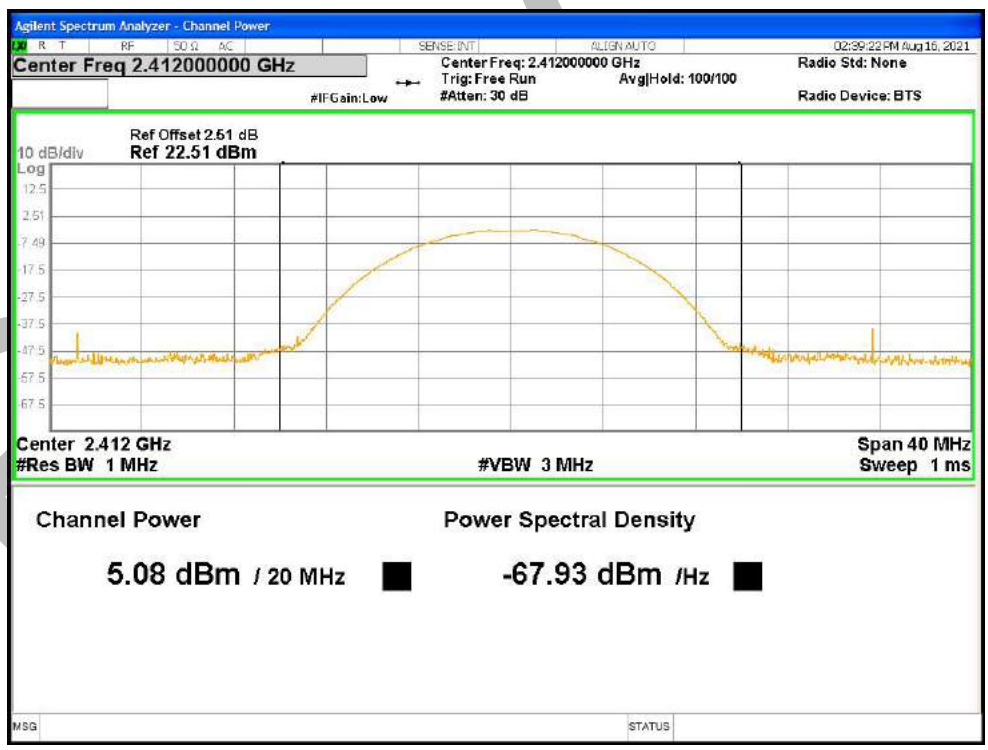
18 APPENDIX

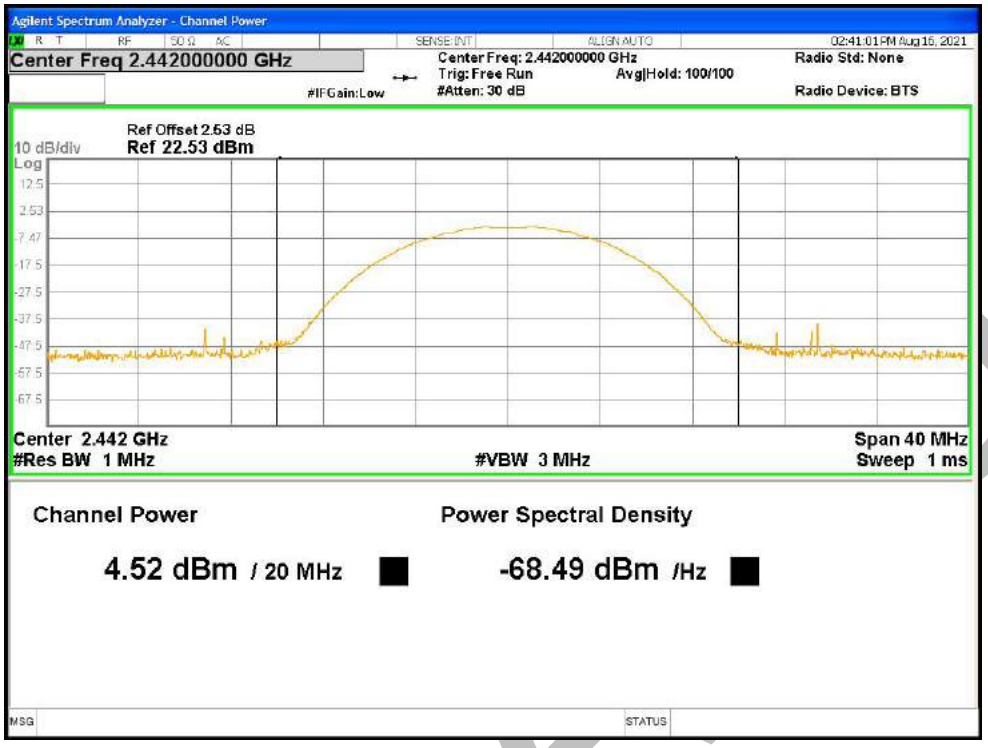
18.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	5.078	30	Pass
NVNT	b	2442	Ant1	4.516	30	Pass
NVNT	b	2472	Ant1	4.977	30	Pass
NVNT	g	2412	Ant1	7.919	30	Pass
NVNT	g	2442	Ant1	7.588	30	Pass
NVNT	g	2472	Ant1	7.829	30	Pass
NVNT	n20	2412	Ant1	2.74	30	Pass
NVNT	n20	2412	Ant2	1.747	30	Pass
NVNT	n20	2412	Sum	5.282	30	Pass
NVNT	n20	2437	Ant1	6.372	30	Pass
NVNT	n20	2437	Ant2	6.339	30	Pass
NVNT	n20	2437	Sum	9.366	30	Pass
NVNT	n20	2462	Ant1	5.603	30	Pass
NVNT	n20	2462	Ant2	5.386	30	Pass
NVNT	n20	2462	Sum	8.506	30	Pass

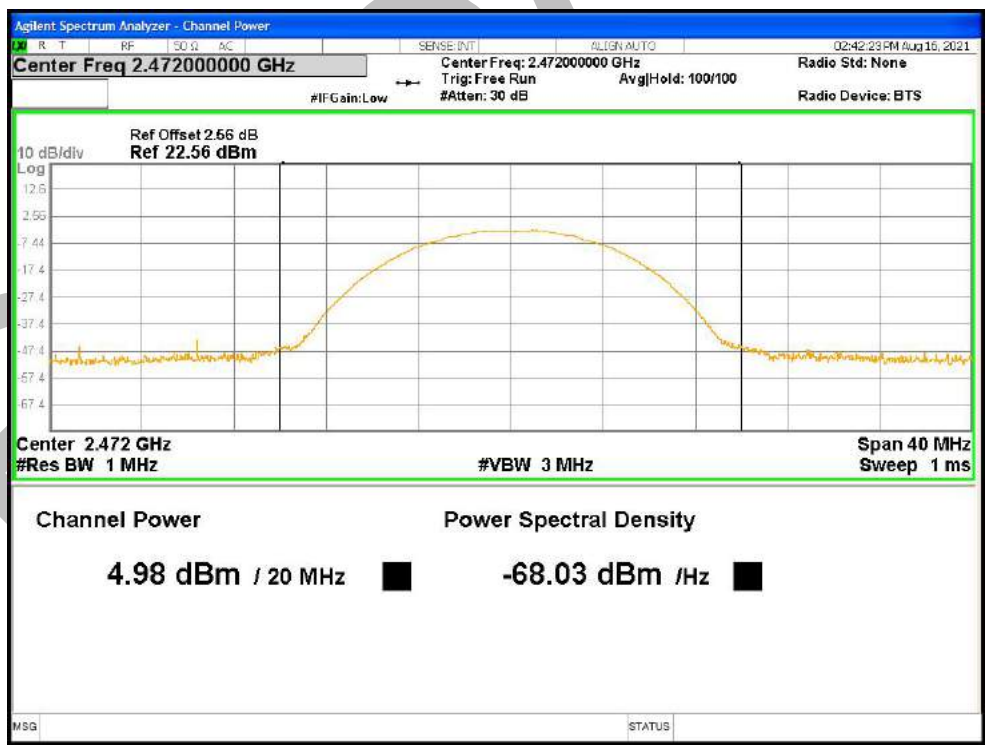
Power NVNT b 2412MHz Ant1



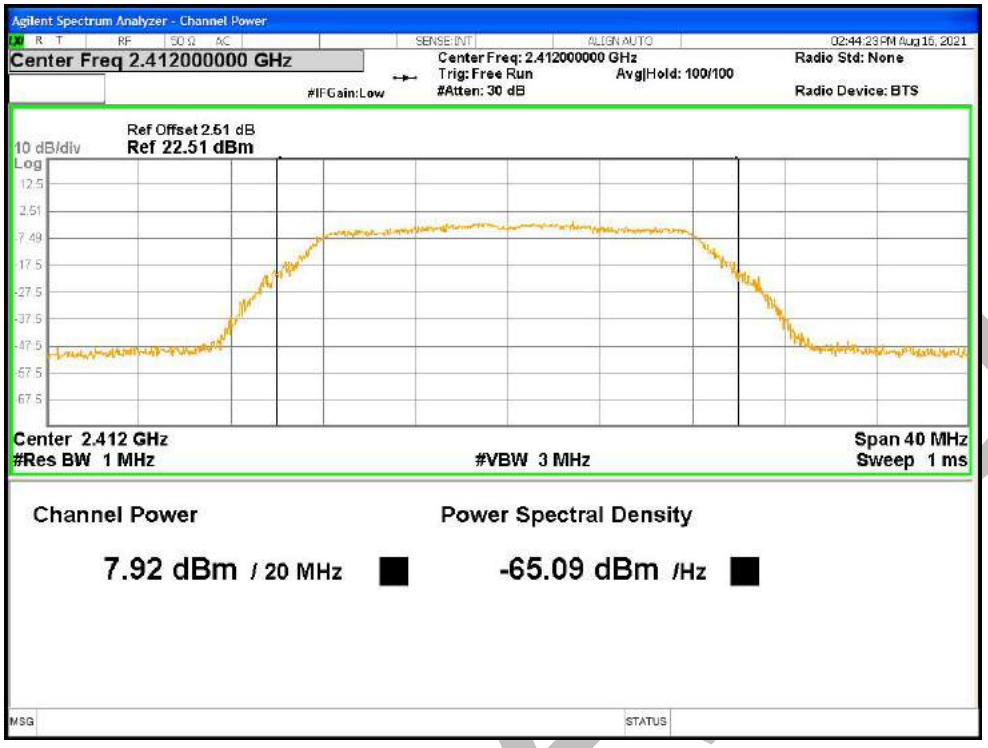
Power NVNT b 2442MHz Ant1



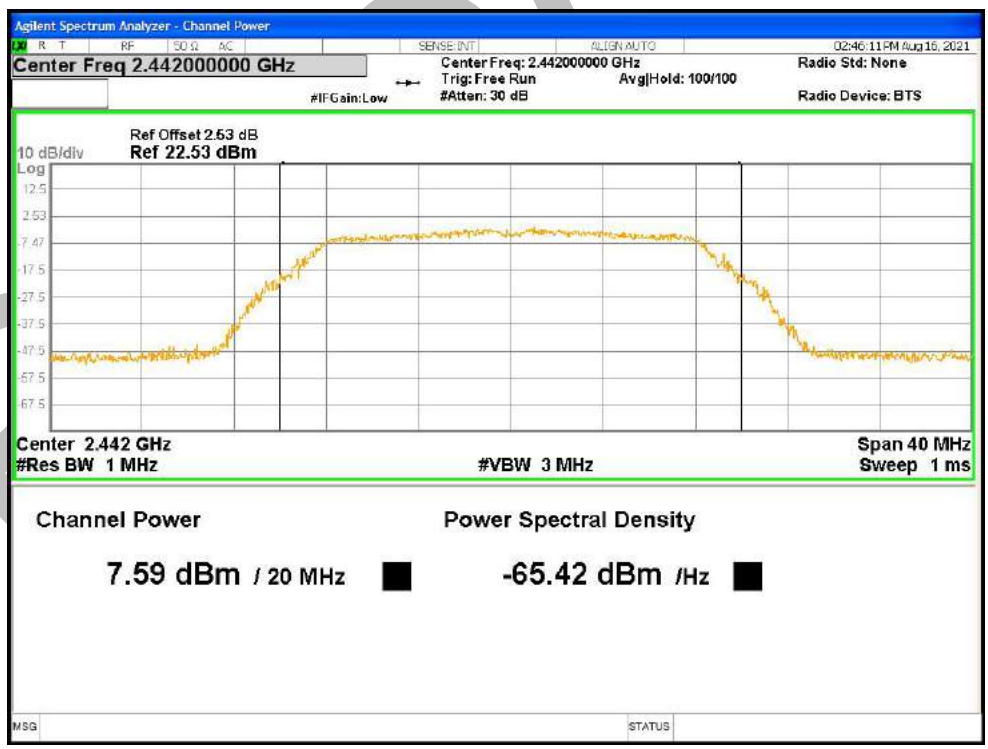
Power NVNT b 2472MHz Ant1



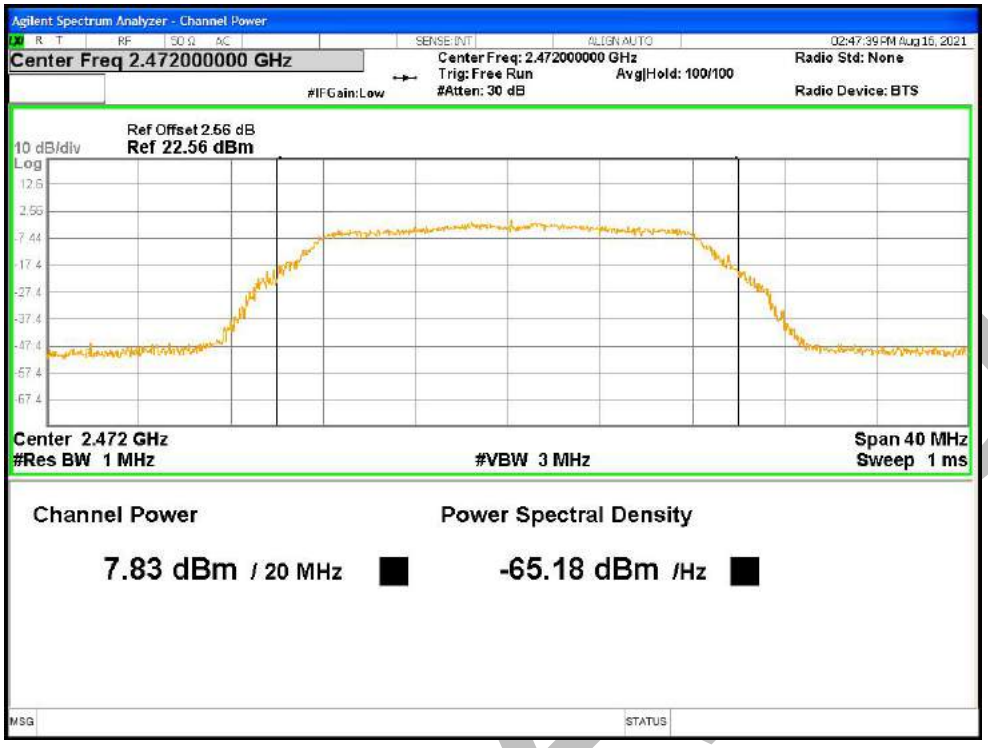
Power NVNT g 2412MHz Ant1



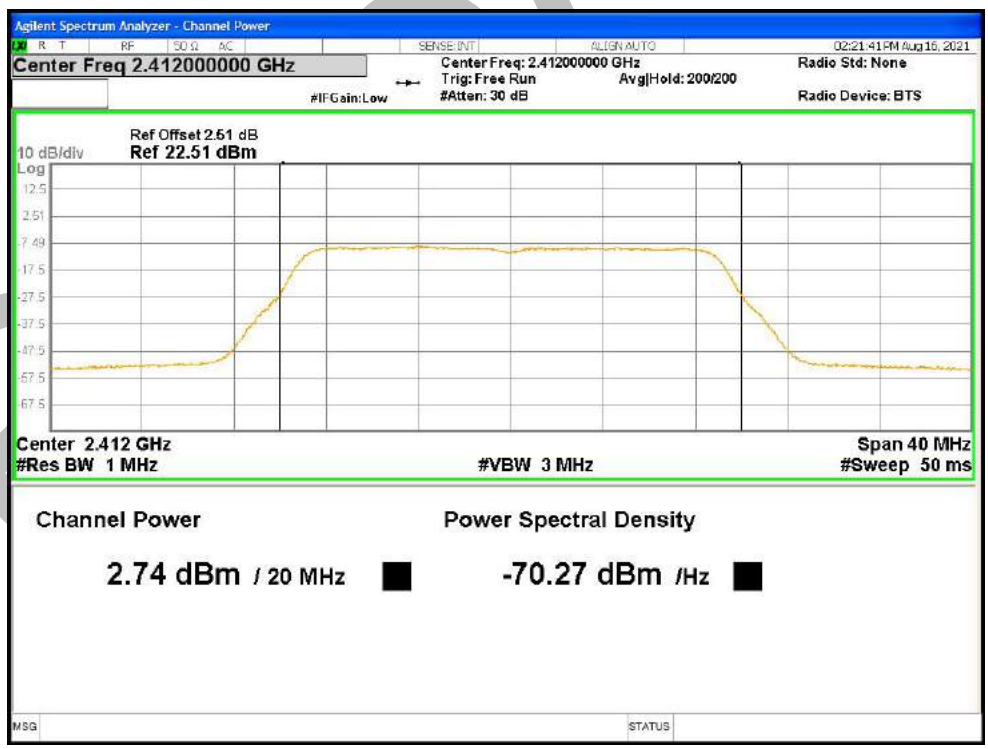
Power NVNT g 2442MHz Ant1



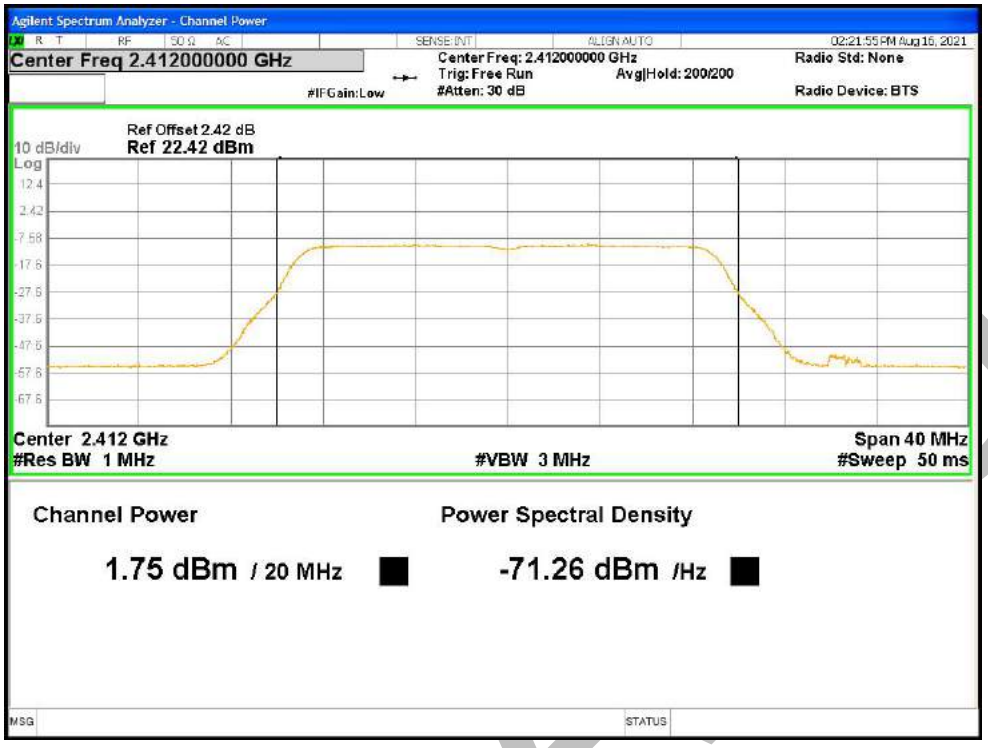
Power NVNT g 2472MHz Ant1



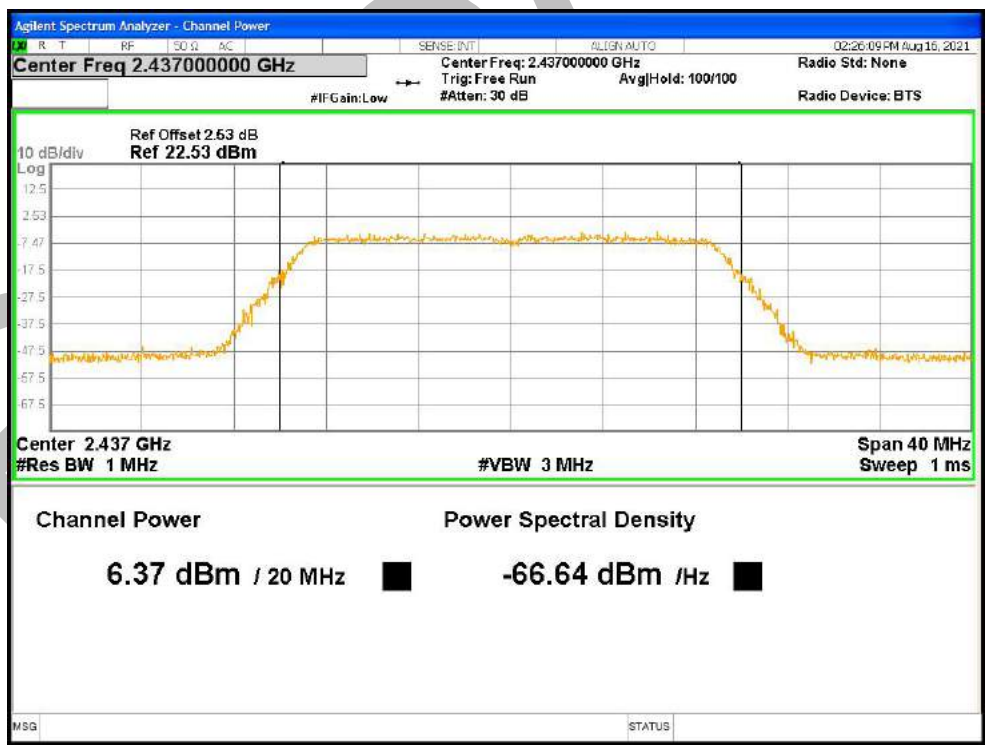
Power NVNT n20 2412MHz Ant1



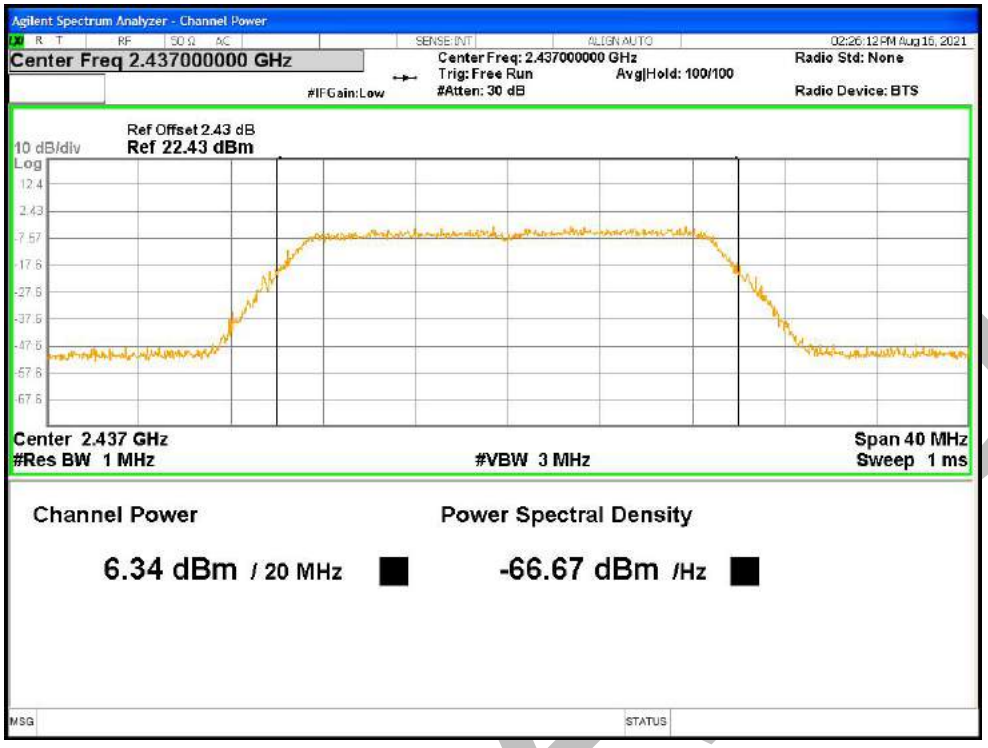
Power NVNT n20 2412MHz Ant2



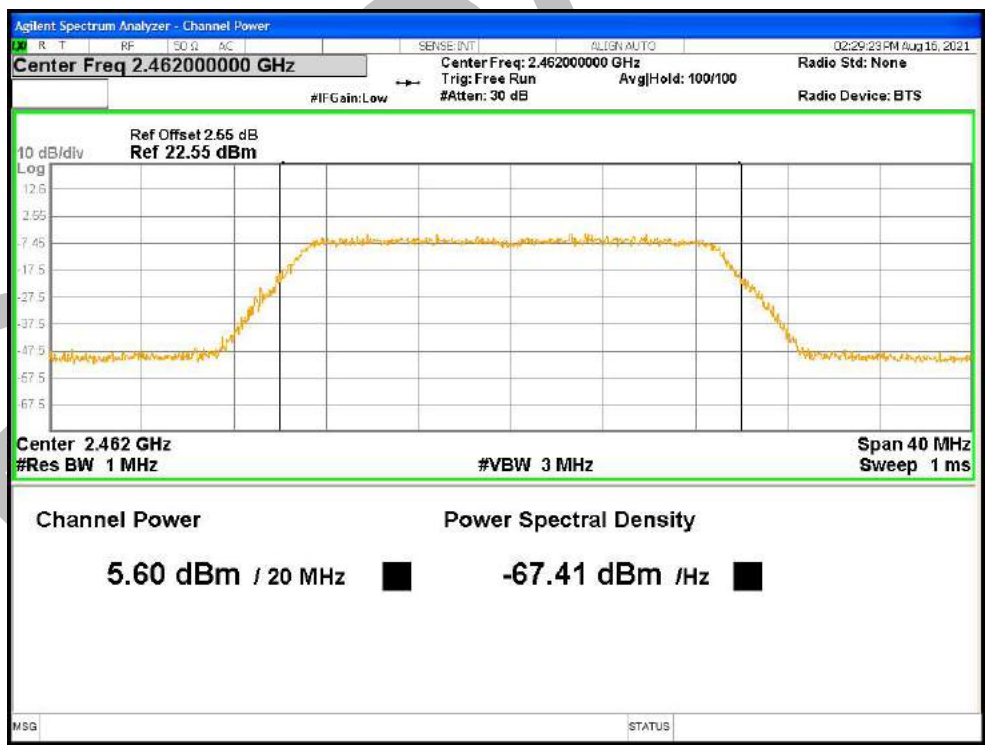
Power NVNT n20 2437MHz Ant1



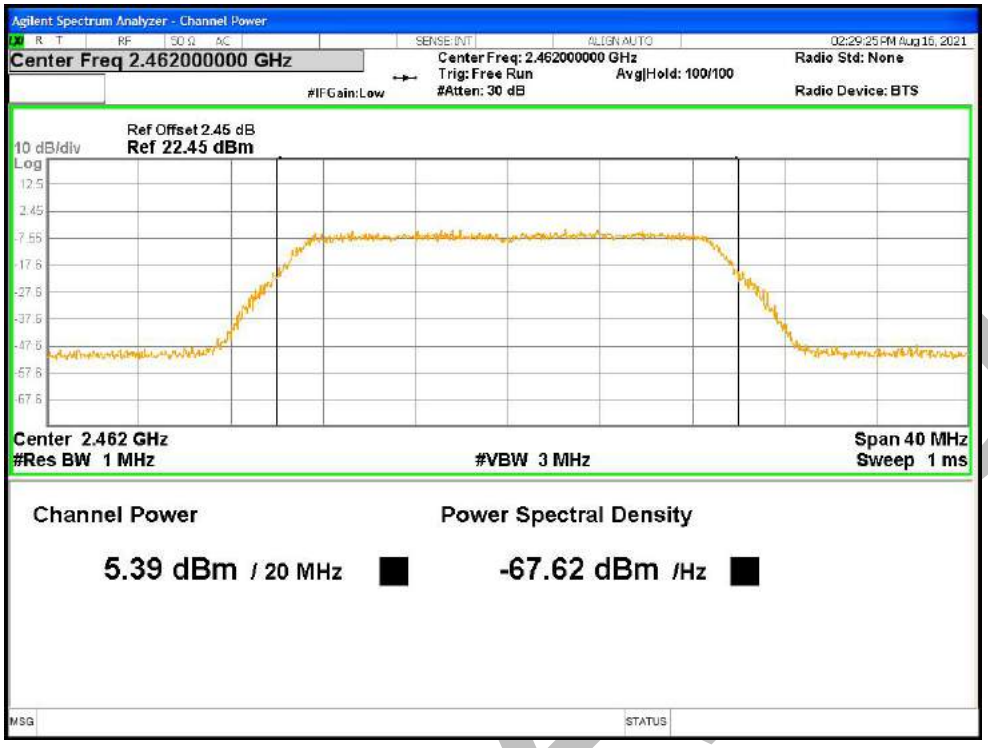
Power NVNT n20 2437MHz Ant2



Power NVNT n20 2462MHz Ant1



Power NVNT n20 2462MHz Ant2



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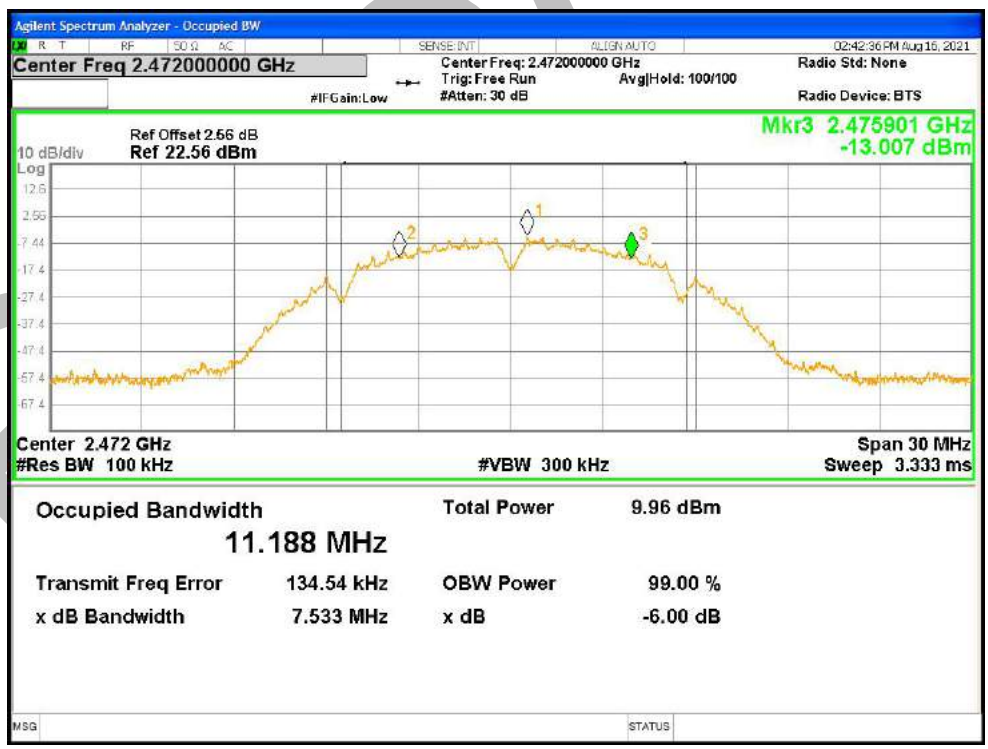
18.2 -6DB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.566	0.5	Pass
NVNT	b	2442	Ant1	7.54	0.5	Pass
NVNT	b	2472	Ant1	7.533	0.5	Pass
NVNT	g	2412	Ant1	16.376	0.5	Pass
NVNT	g	2442	Ant1	16.333	0.5	Pass
NVNT	g	2472	Ant1	16.31	0.5	Pass
NVNT	n20	2412	Ant1	17.712	0.5	Pass
NVNT	n20	2412	Ant2	17.726	0.5	Pass
NVNT	n20	2437	Ant1	17.693	0.5	Pass
NVNT	n20	2437	Ant2	17.707	0.5	Pass
NVNT	n20	2462	Ant1	17.714	0.5	Pass
NVNT	n20	2462	Ant2	17.689	0.5	Pass

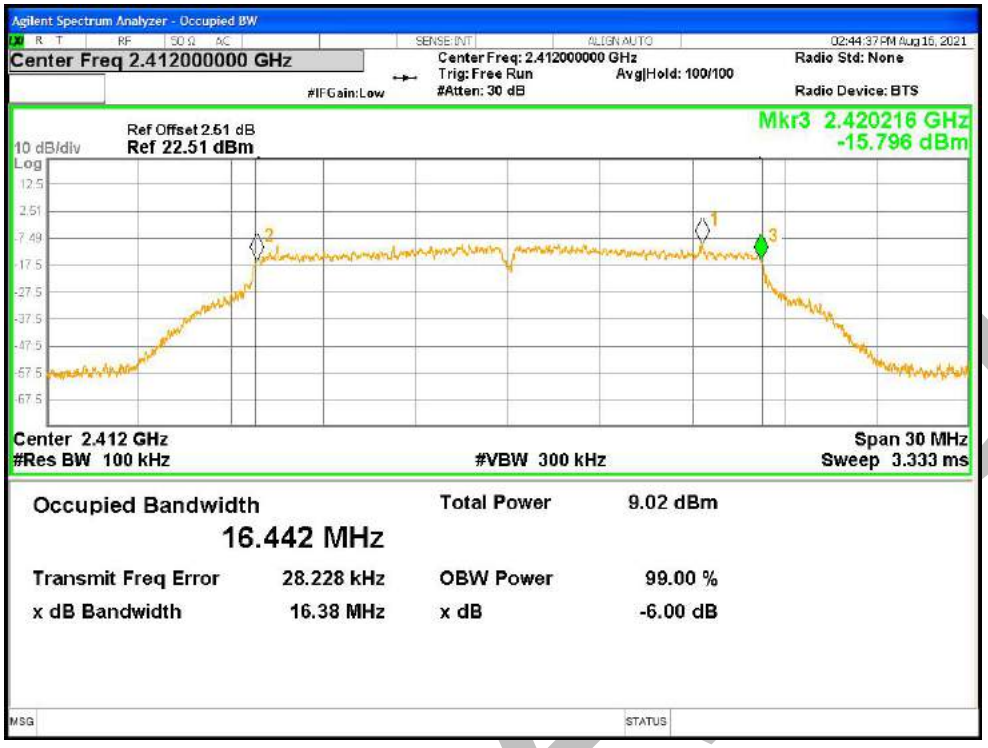
-6dB Bandwidth NVNT b 2412MHz Ant1

-6dB Bandwidth NVNT b 2442MHz Ant1

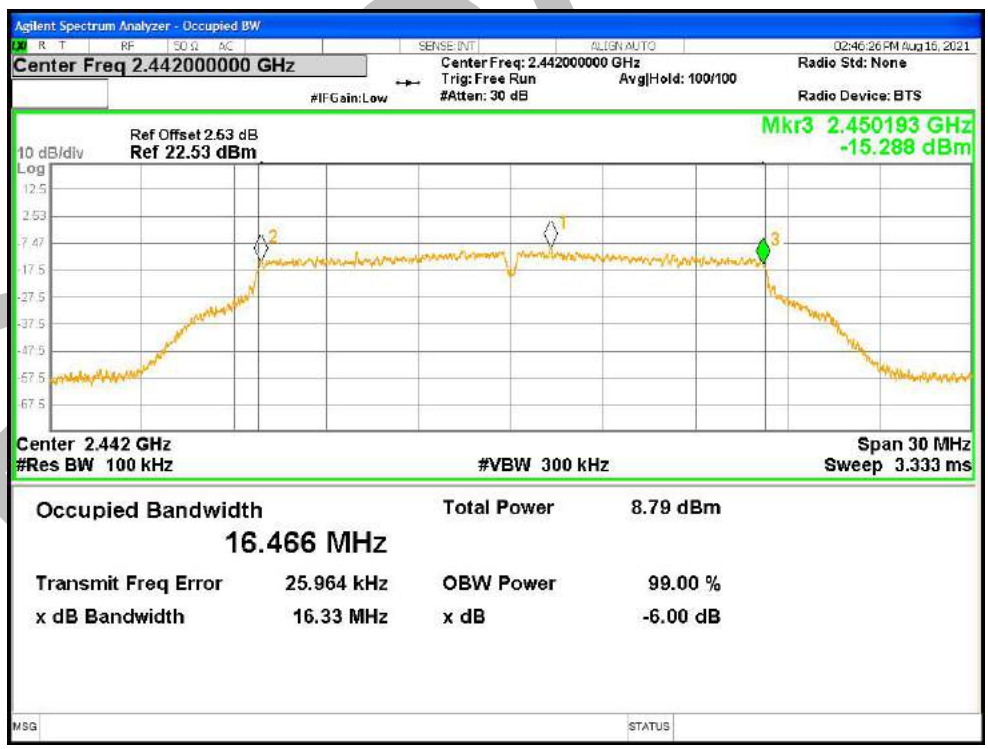
-6dB Bandwidth NVNT b 2472MHz Ant1



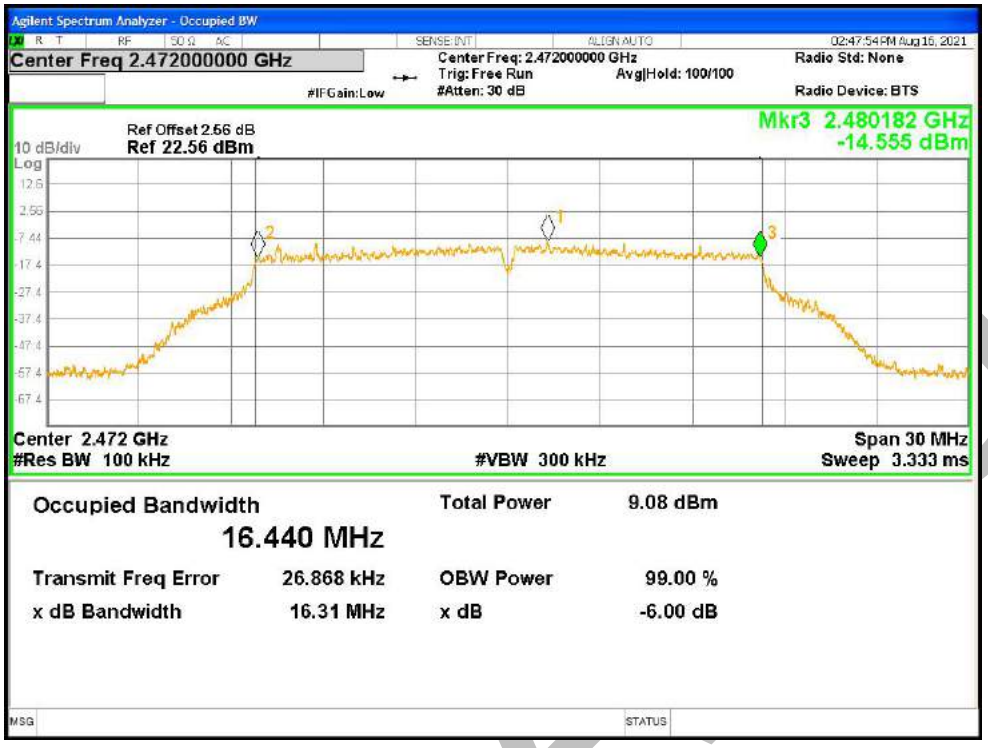
-6dB Bandwidth NVNT g 2412MHz Ant1



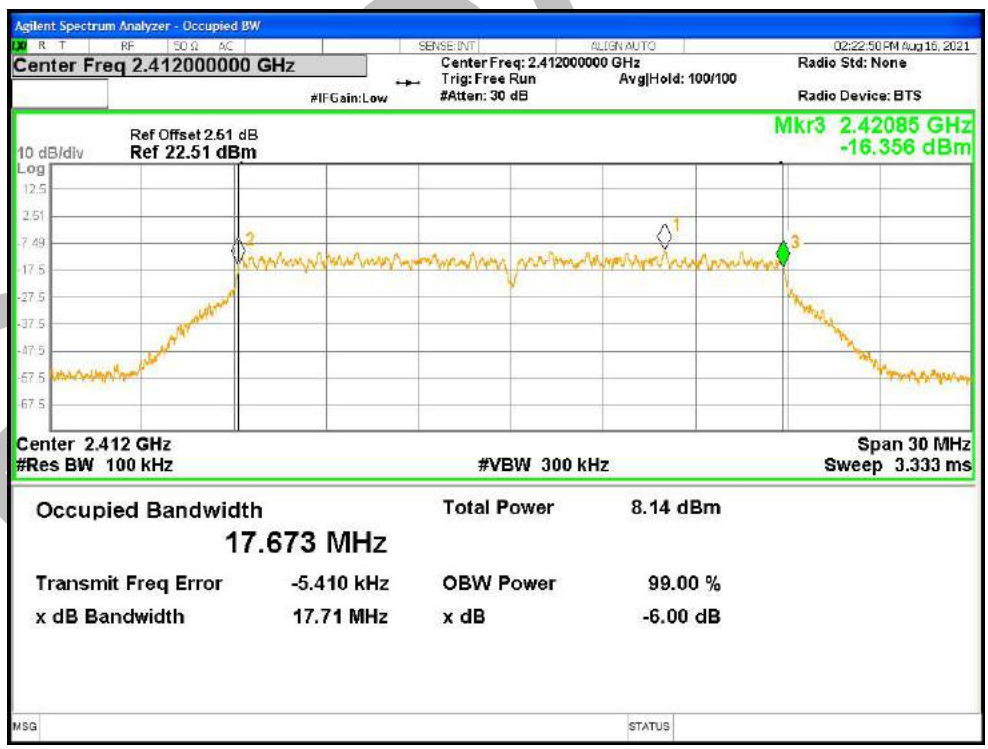
-6dB Bandwidth NVNT g 2442MHz Ant1



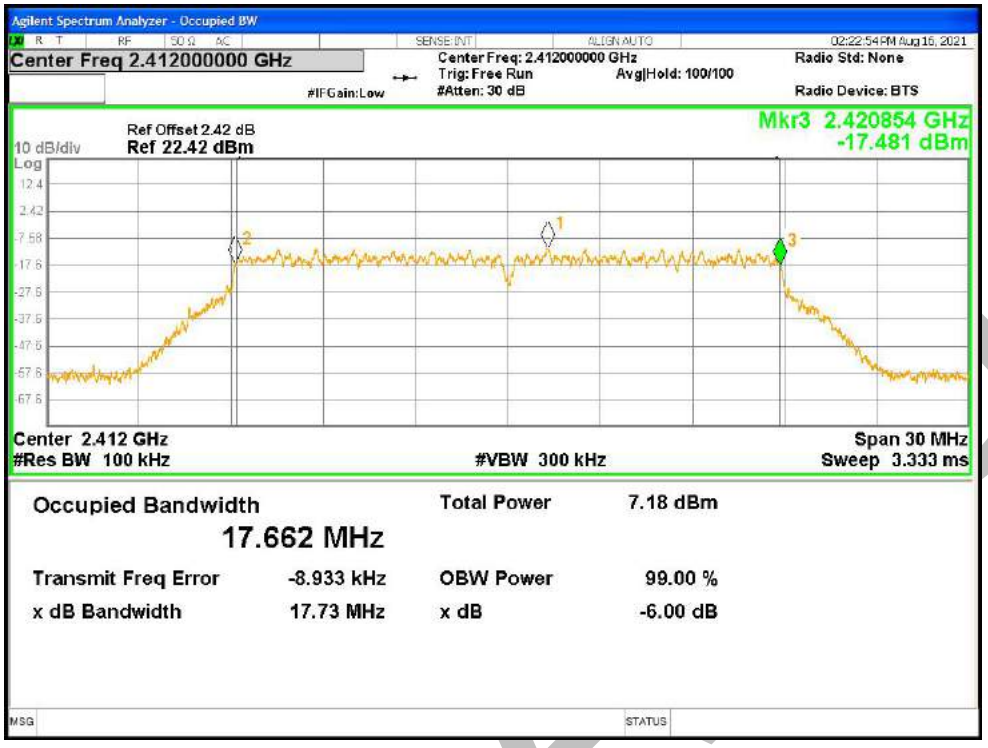
-6dB Bandwidth NVNT g 2472MHz Ant1



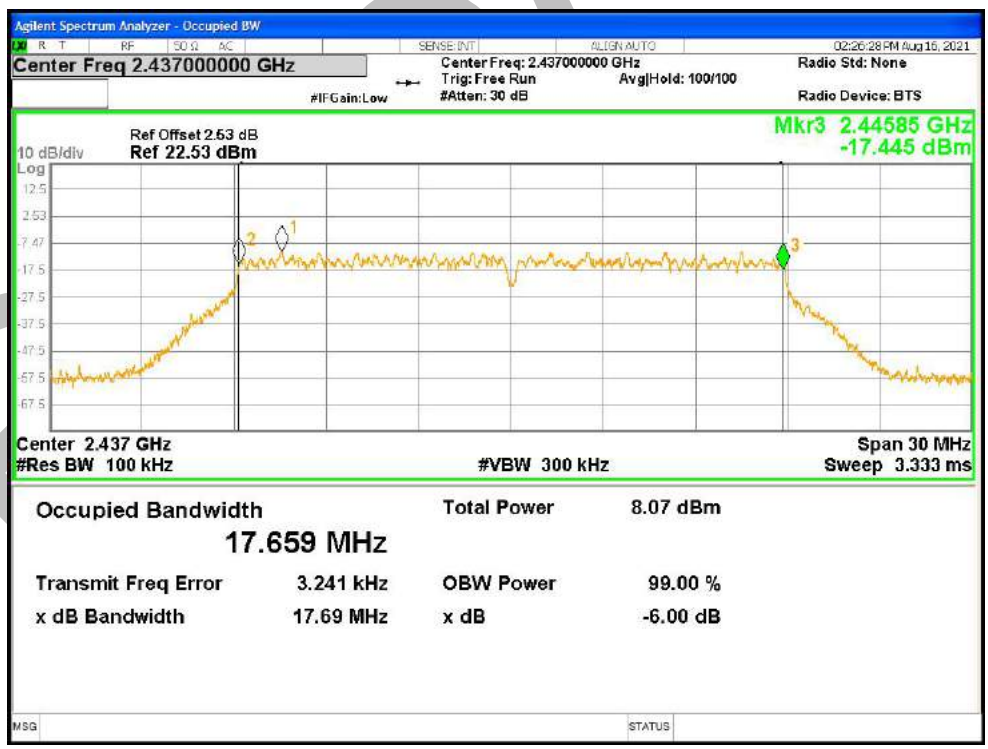
-6dB Bandwidth NVNT n20 2412MHz Ant1



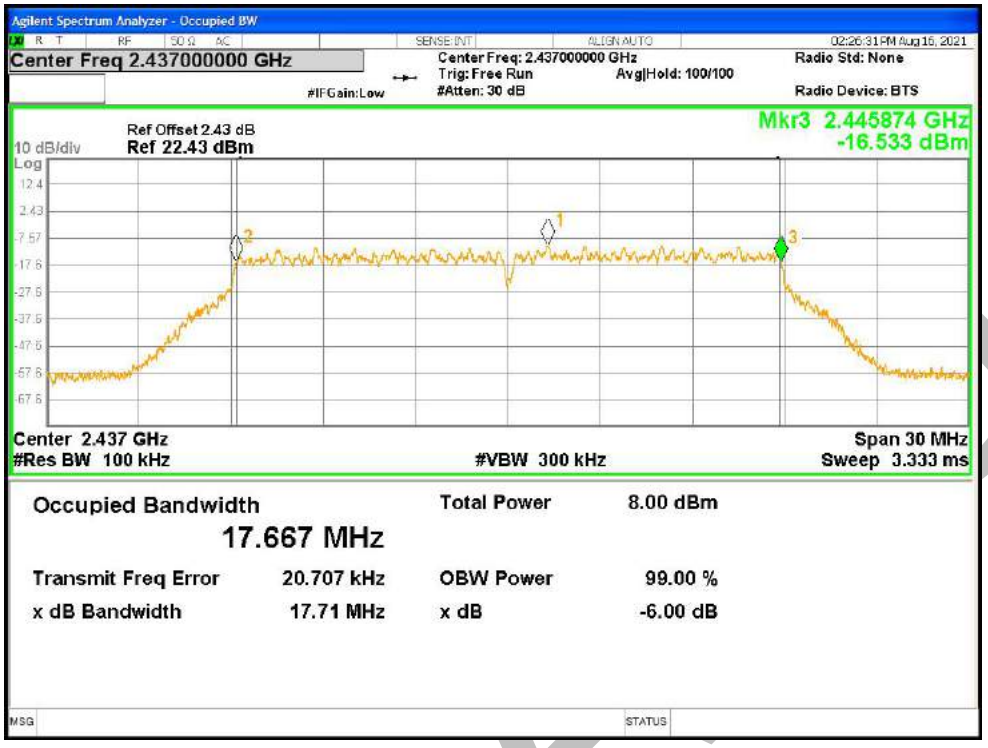
-6dB Bandwidth NVNT n20 2412MHz Ant2



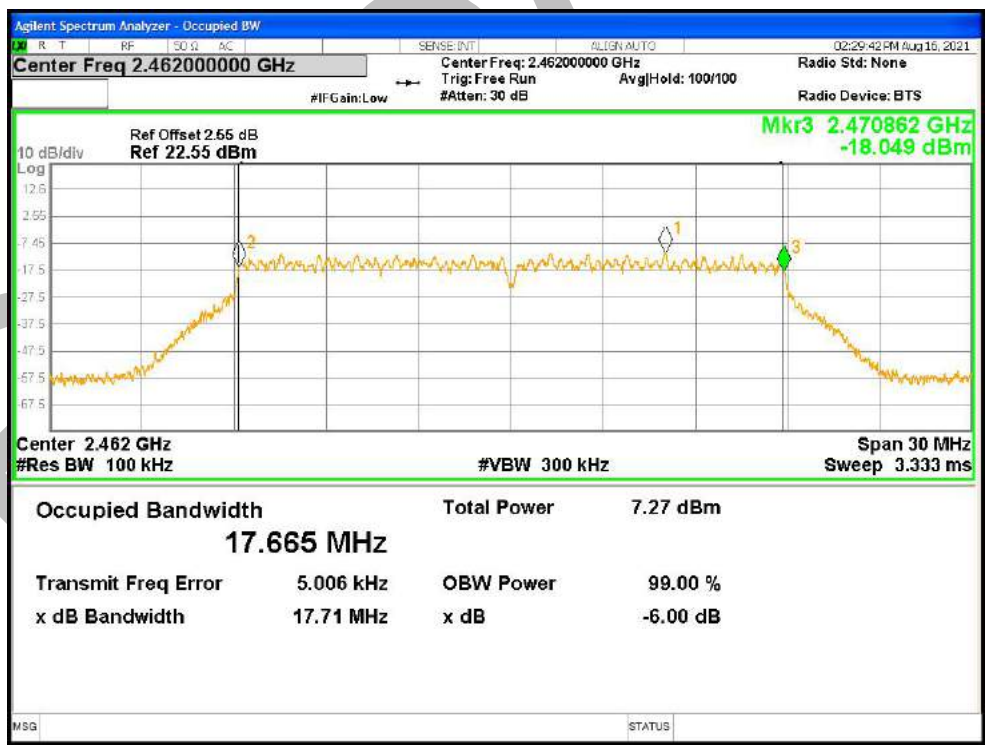
-6dB Bandwidth NVNT n20 2437MHz Ant1



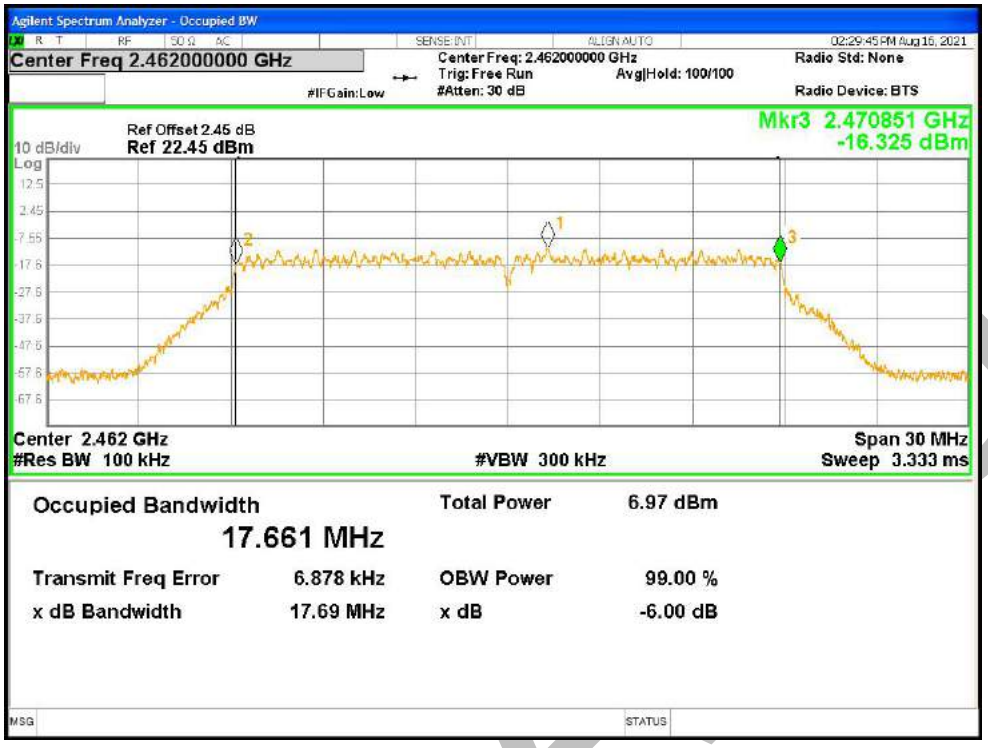
-6dB Bandwidth NVNT n20 2437MHz Ant2



-6dB Bandwidth NVNT n20 2462MHz Ant1



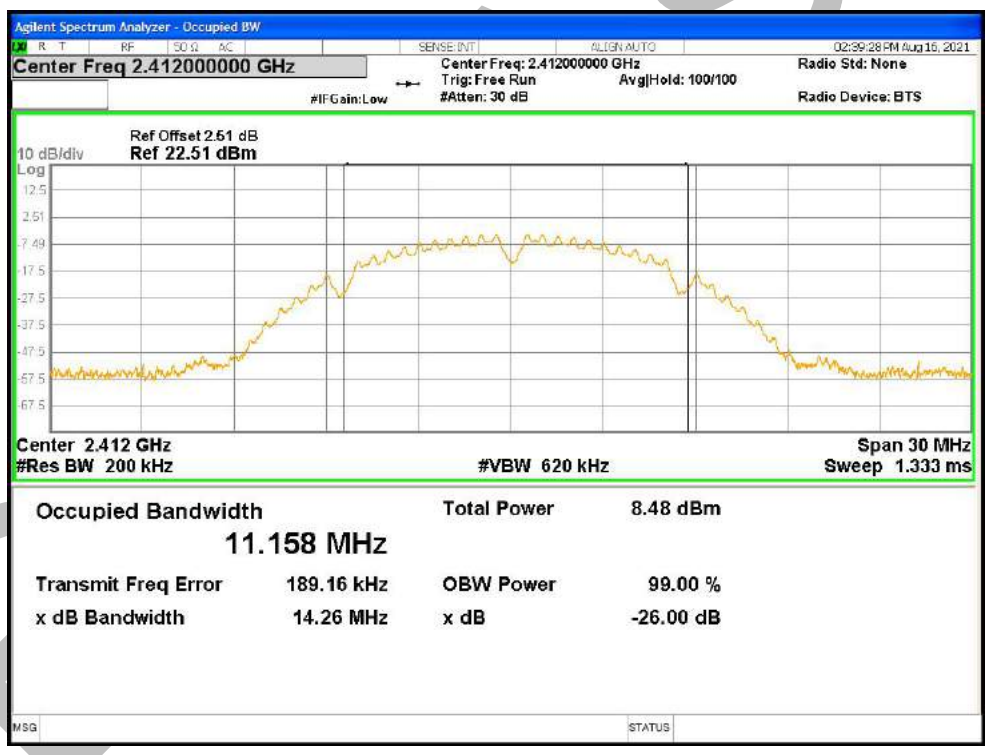
-6dB Bandwidth NVNT n20 2462MHz Ant2



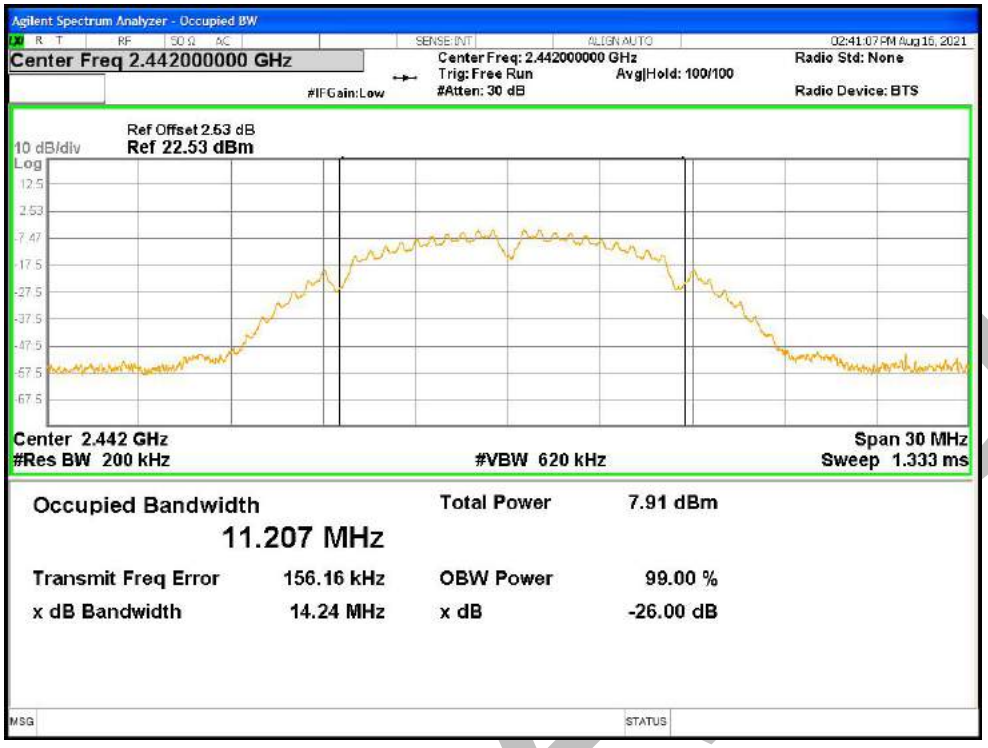
18.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	11.15753555
NVNT	b	2442	Ant1	11.20685023
NVNT	b	2472	Ant1	11.14191233
NVNT	g	2412	Ant1	16.57117922
NVNT	g	2442	Ant1	16.58408295
NVNT	g	2472	Ant1	16.5833033
NVNT	n20	2412	Ant1	17.79787266
NVNT	n20	2412	Ant2	17.77853319
NVNT	n20	2437	Ant1	17.7474901
NVNT	n20	2437	Ant2	17.74120692
NVNT	n20	2462	Ant1	17.76145661
NVNT	n20	2462	Ant2	17.73664602

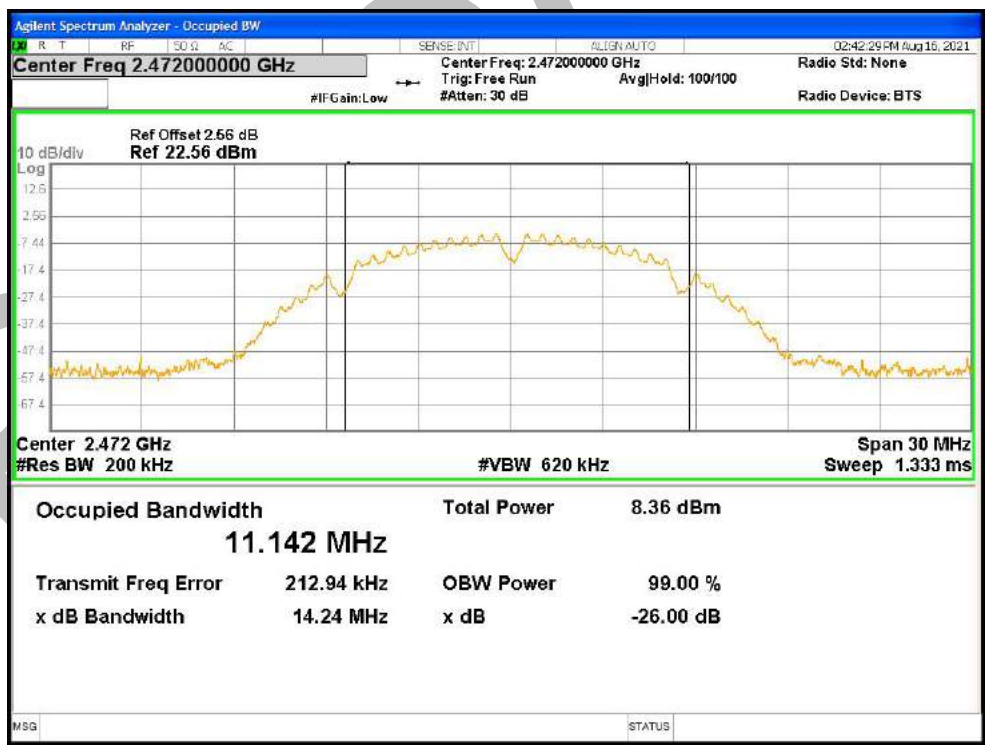
OBW NVNT b 2412MHz Ant1



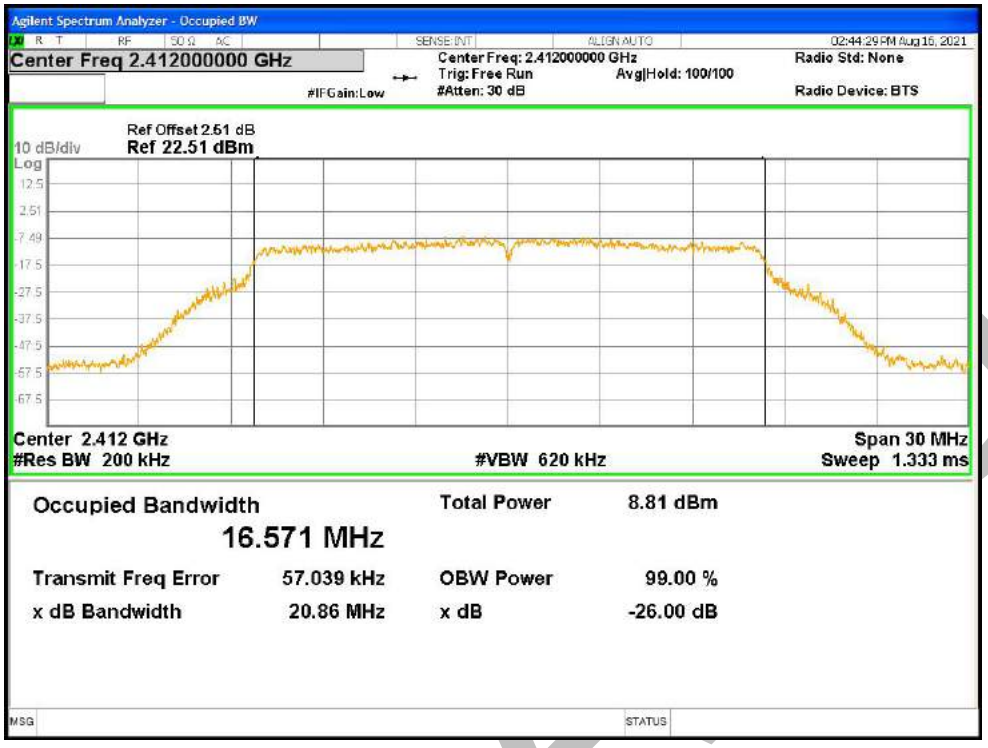
OBW NVNT b 2442MHz Ant1



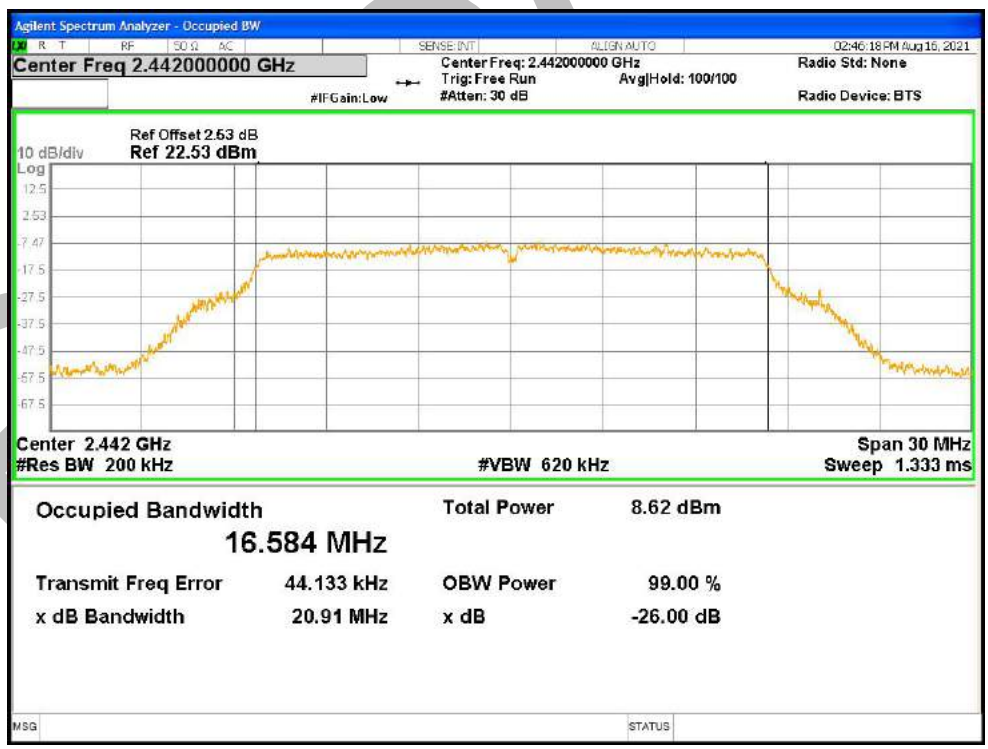
OBW NVNT b 2472MHz Ant1



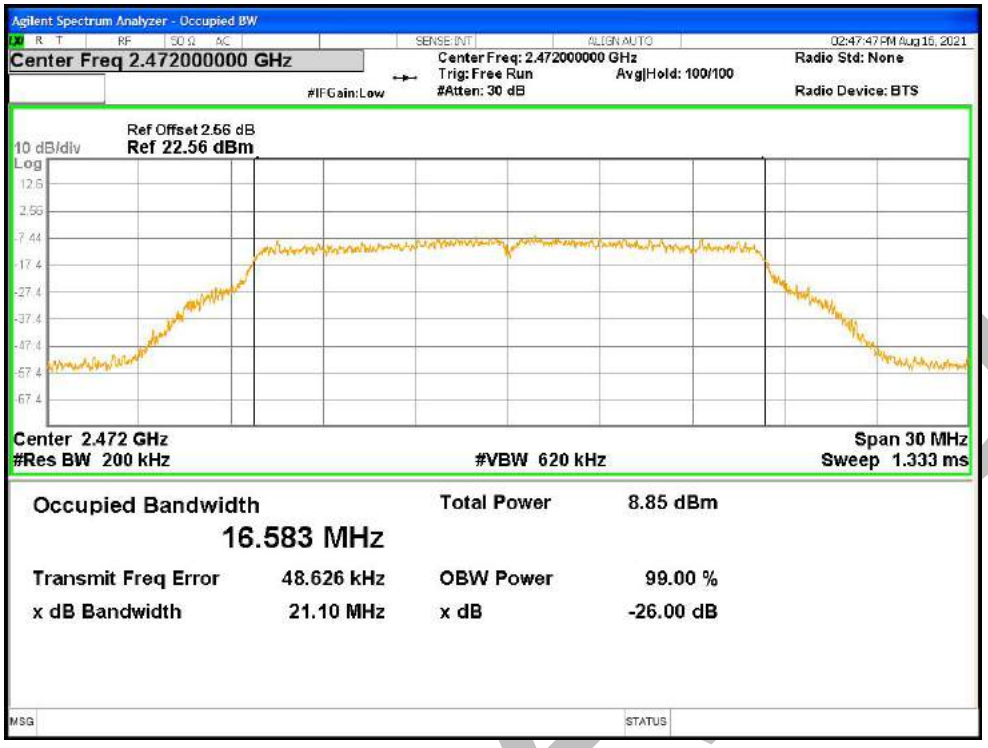
OBW NVNT g 2412MHz Ant1



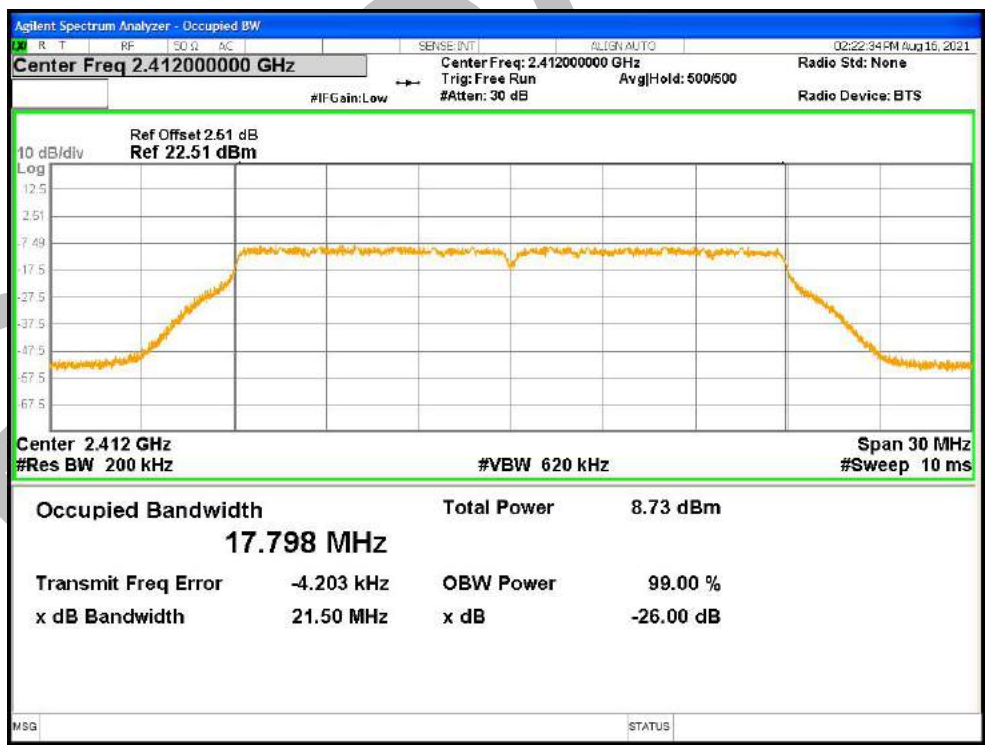
OBW NVNT g 2442MHz Ant1



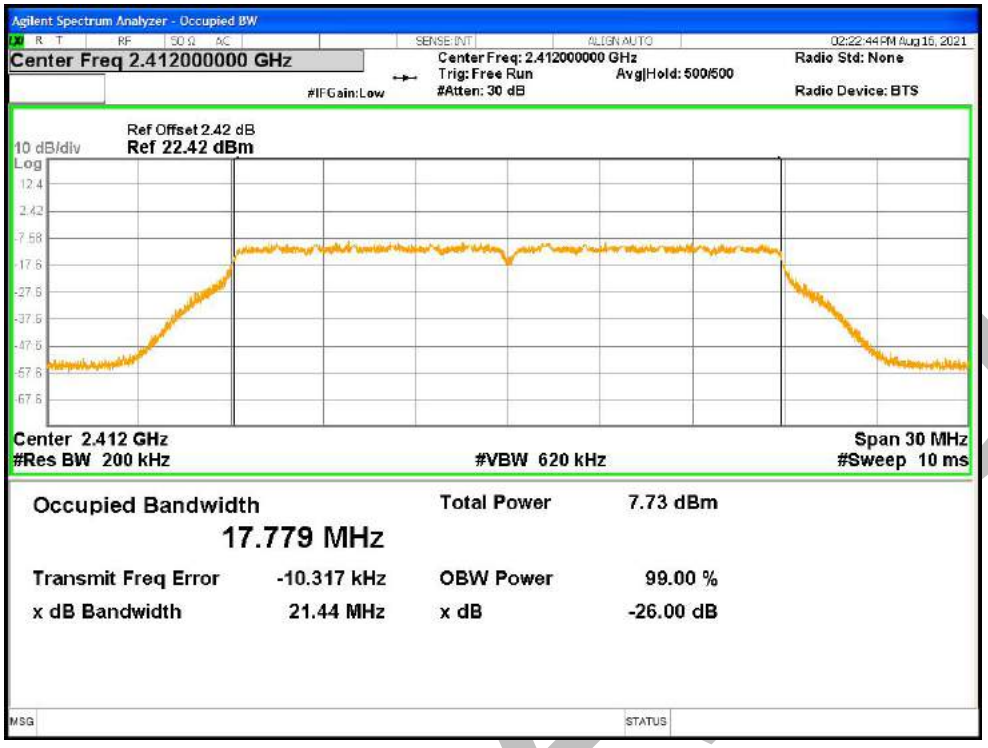
OBW NVNT g 2472MHz Ant1



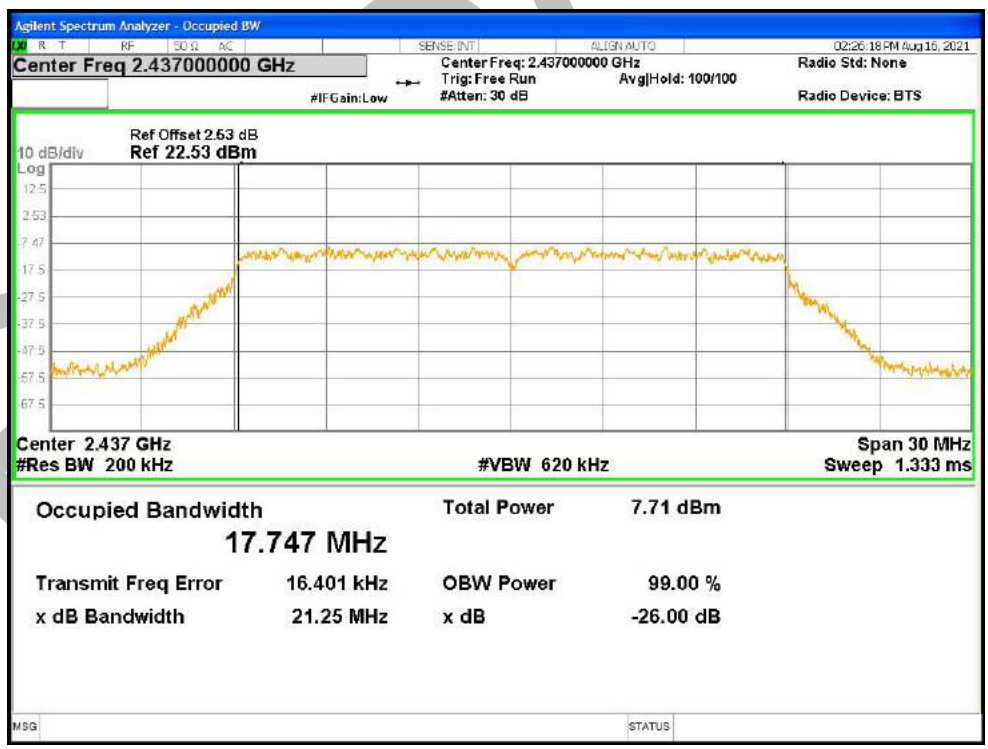
OBW NVNT n20 2412MHz Ant1



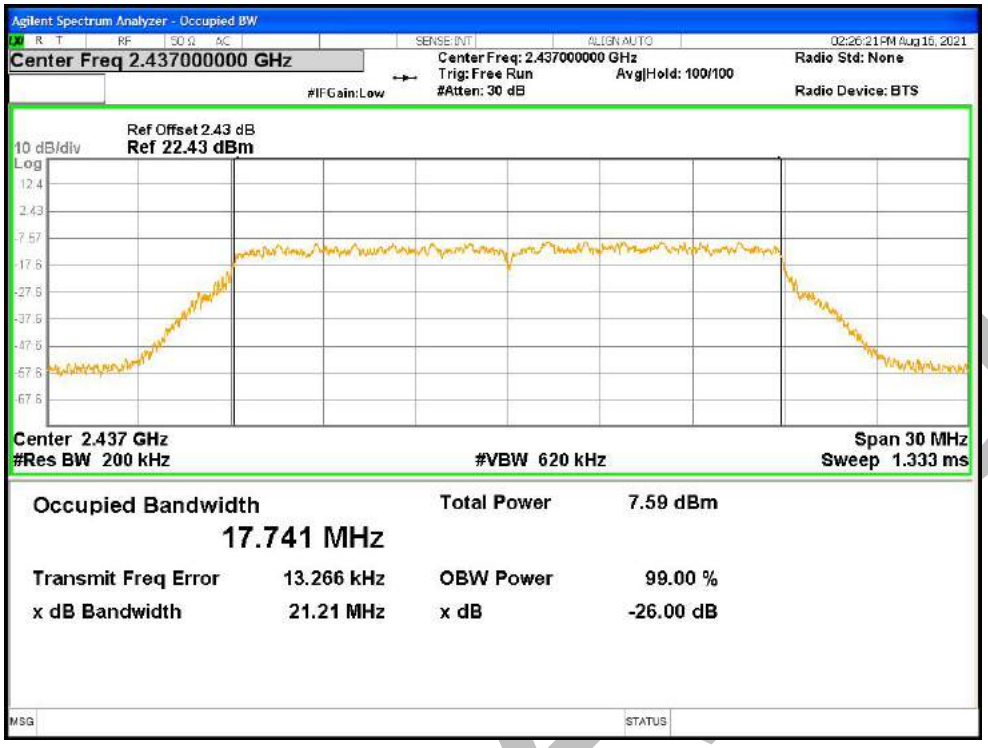
OBW NVNT n20 2412MHz Ant2



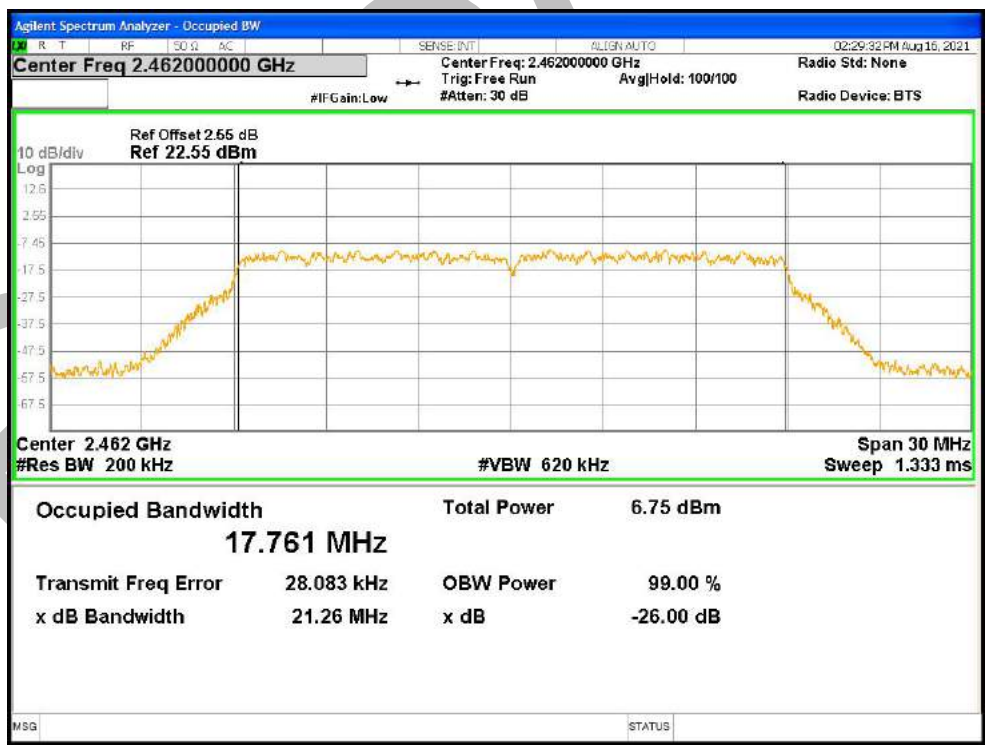
OBW NVNT n20 2437MHz Ant1



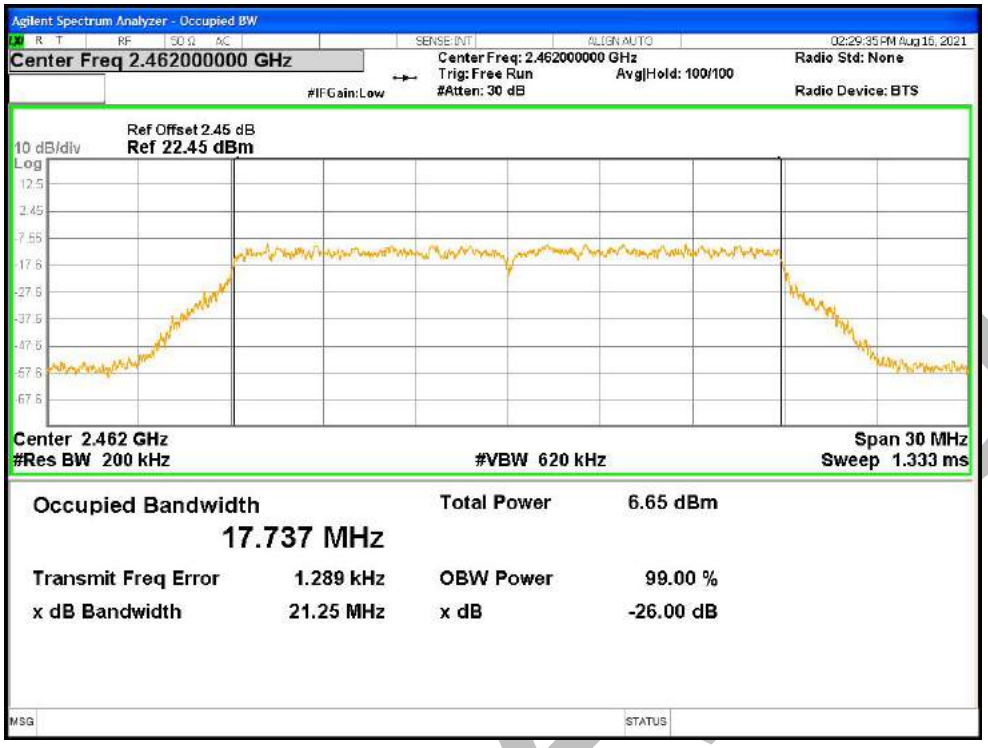
OBW NVNT n20 2437MHz Ant2



OBW NVNT n20 2462MHz Ant1



OBW NVNT n20 2462MHz Ant2



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Maximum Power Spectral Density Level

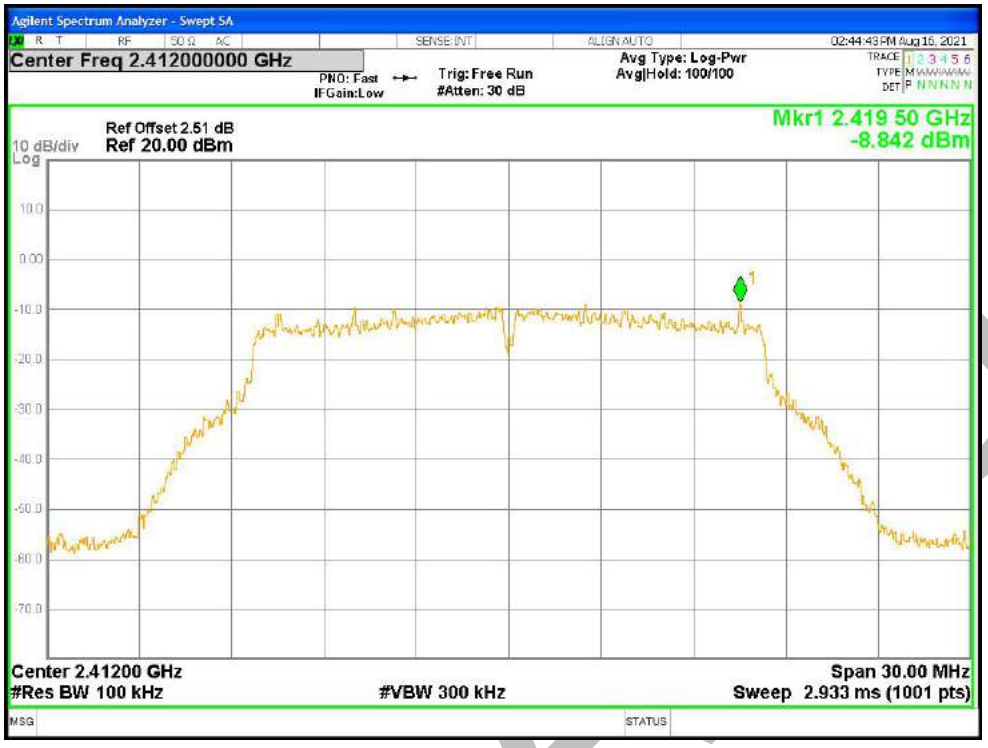
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-4.529	8	Pass
NVNT	b	2442	Ant1	-5.433	8	Pass
NVNT	b	2472	Ant1	-4.595	8	Pass
NVNT	g	2412	Ant1	-8.842	8	Pass
NVNT	g	2442	Ant1	-9.081	8	Pass
NVNT	g	2472	Ant1	-9.31	8	Pass
NVNT	n20	2412	Ant1	-10.063	8	Pass
NVNT	n20	2412	Ant2	-11.063	8	Pass
NVNT	n20	2412	Sum	-7.524	8	Pass
NVNT	n20	2437	Ant1	-10.15	8	Pass
NVNT	n20	2437	Ant2	-10.056	8	Pass
NVNT	n20	2437	Sum	-7.092	8	Pass
NVNT	n20	2462	Ant1	-11.022	8	Pass
NVNT	n20	2462	Ant2	-11.096	8	Pass
NVNT	n20	2462	Sum	-8.049	8	Pass

PSD NVNT b 2412MHz Ant1

PSD NVNT b 2442MHz Ant1

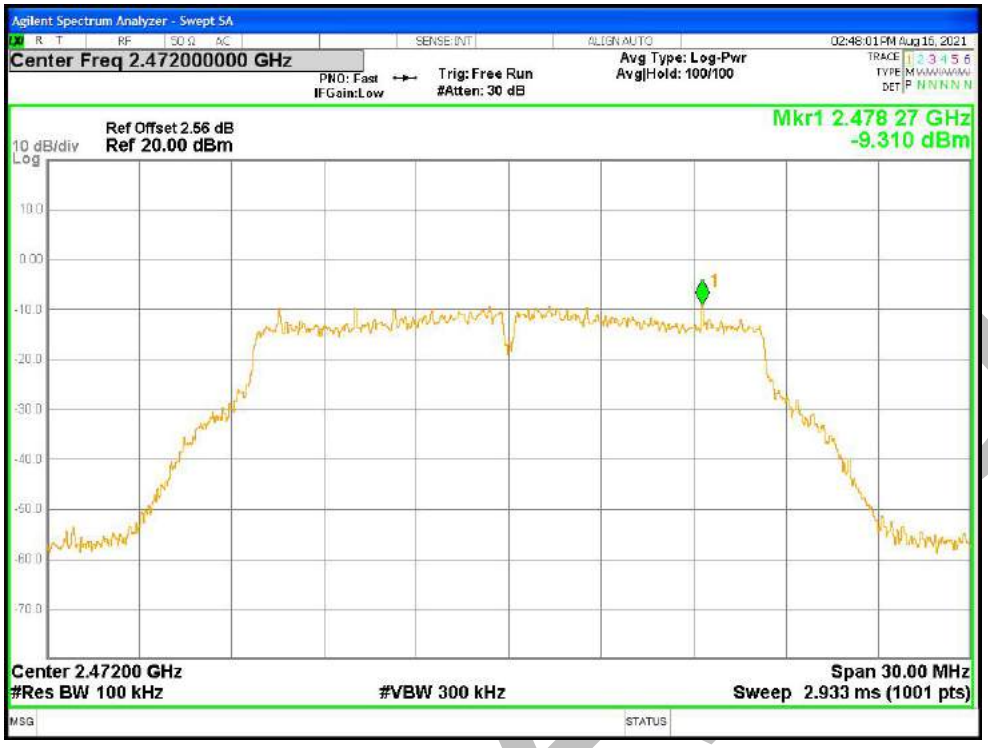
PSD NVNT b 2472MHz Ant1

PSD NVNT g 2412MHz Ant1



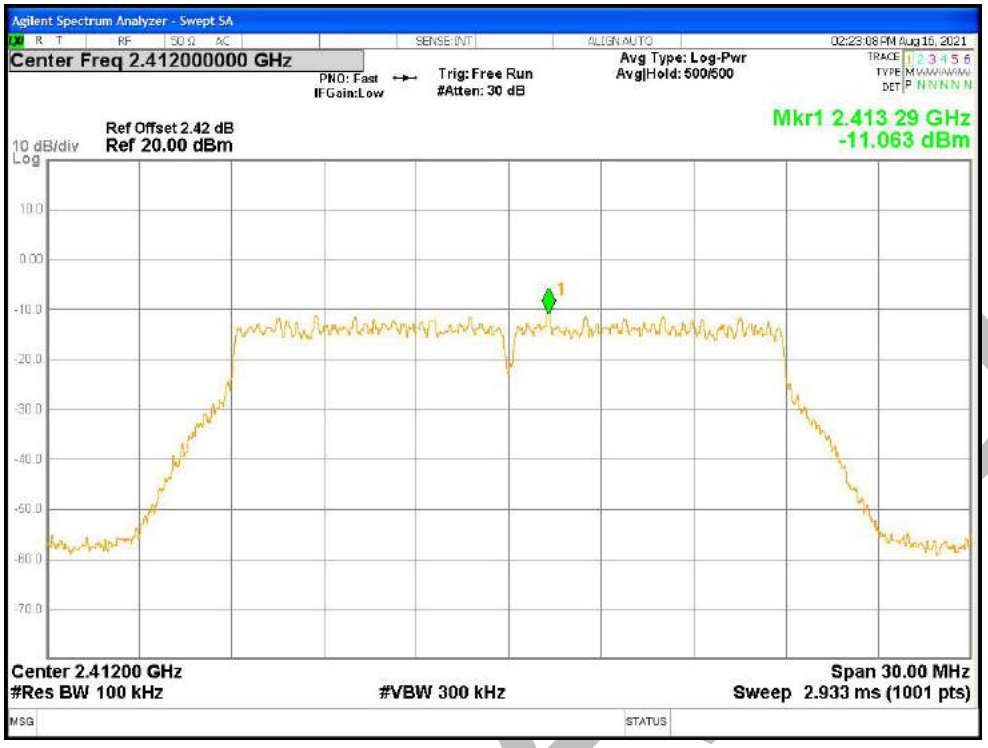
PSD NVNT g 2442MHz Ant1

PSD NVNT g 2472MHz Ant1

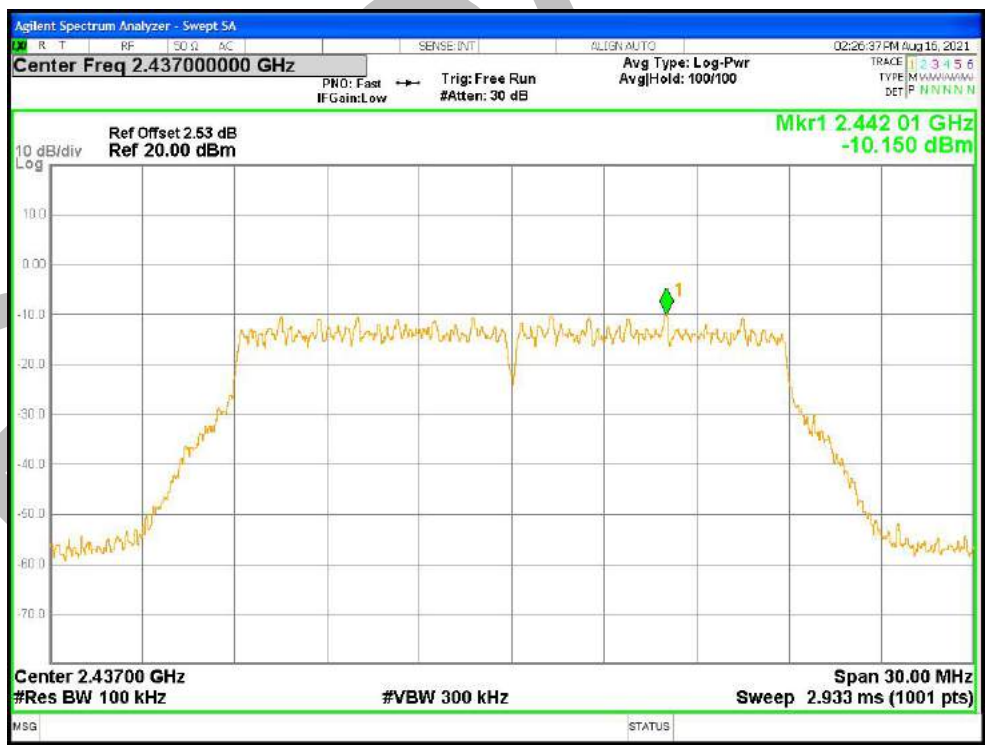


PSD NVNT n20 2412MHz Ant1

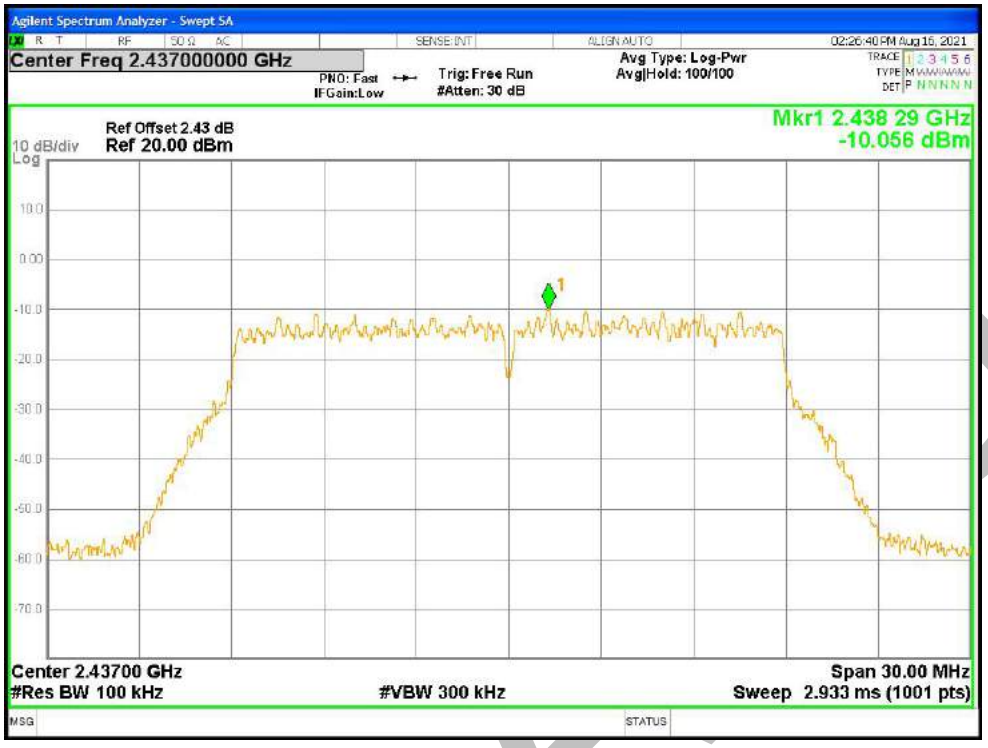
PSD NVNT n20 2412MHz Ant2



PSD NVNT n20 2437MHz Ant1

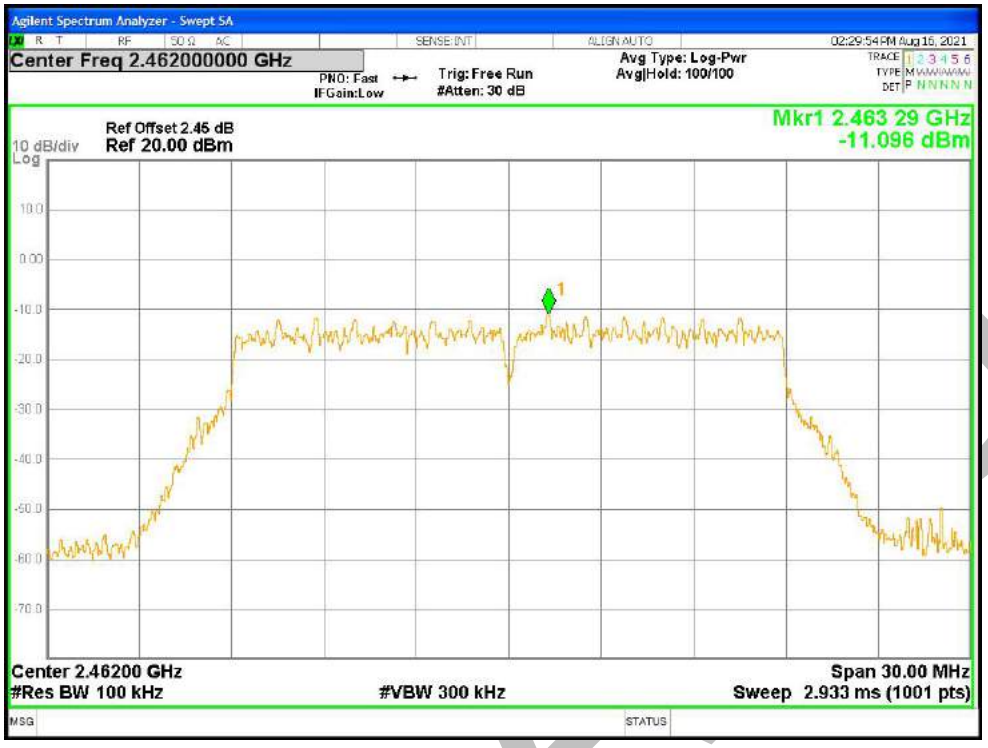


PSD NVNT n20 2437MHz Ant2



PSD NVNT n20 2462MHz Ant1

PSD NVNT n20 2462MHz Ant2



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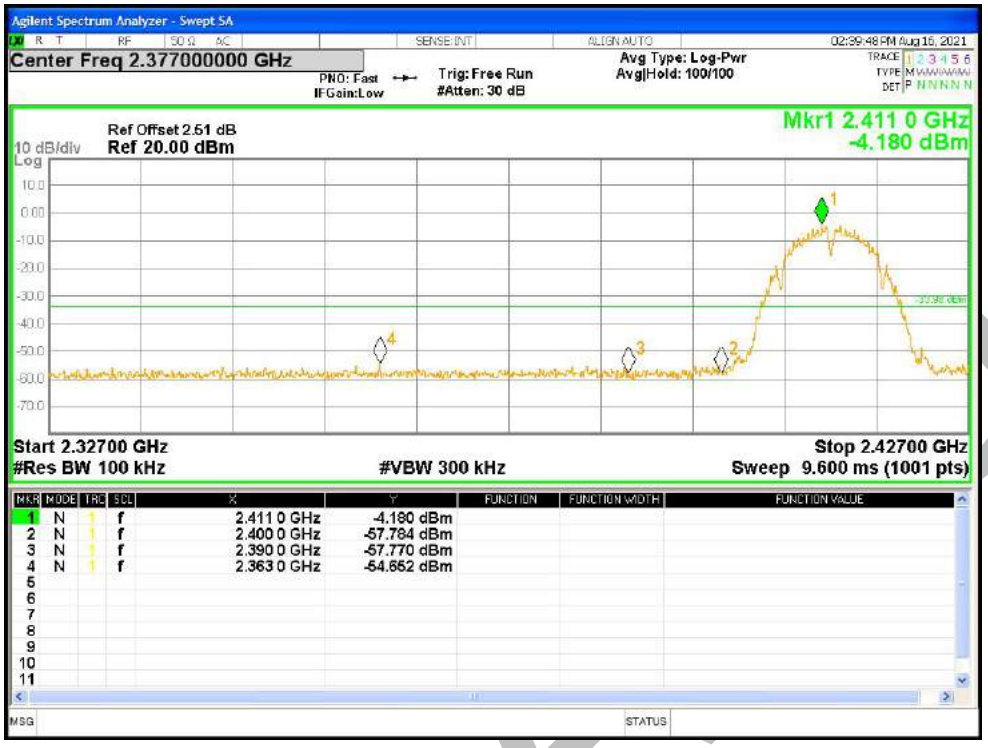
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.67	-30	Pass
NVNT	b	2472	Ant1	-49.24	-30	Pass
NVNT	g	2412	Ant1	-46.33	-30	Pass
NVNT	g	2472	Ant1	-38.73	-30	Pass
NVNT	n20	2412	Ant1	-45.19	-30	Pass
NVNT	n20	2412	Ant2	-44.2	-30	Pass
NVNT	n20	2462	Ant1	-43.63	-30	Pass
NVNT	n20	2462	Ant2	-44.01	-30	Pass

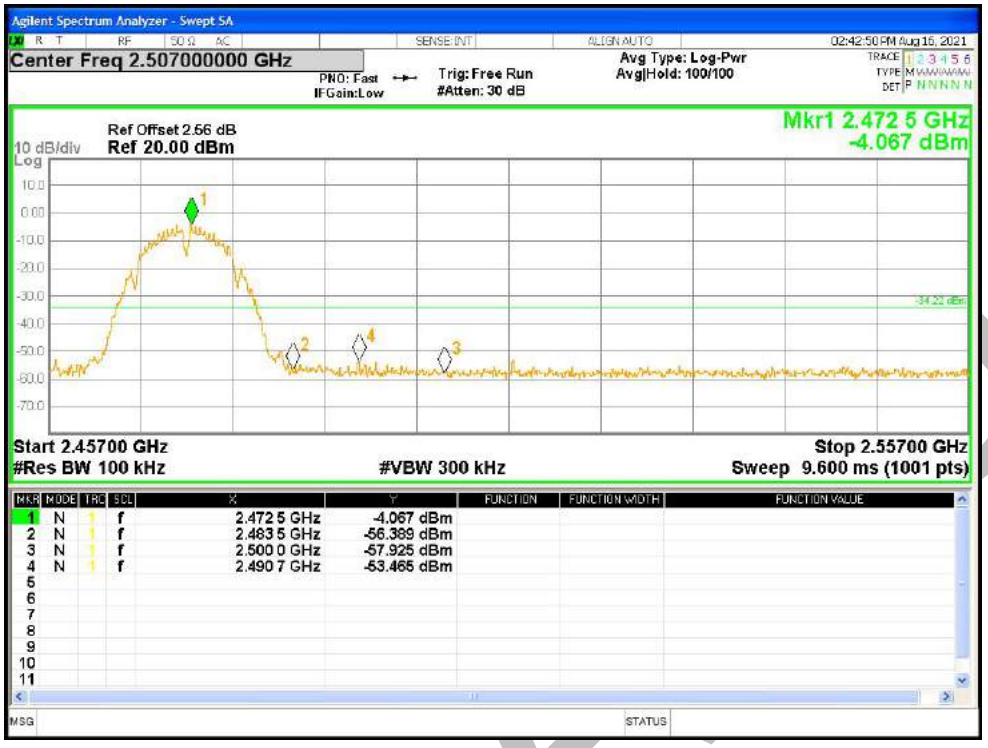
Band Edge NVNT b 2412MHz Ant1 Ref

Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2472MHz Ant1 Ref

Band Edge NVNT b 2472MHz Ant1 Emission

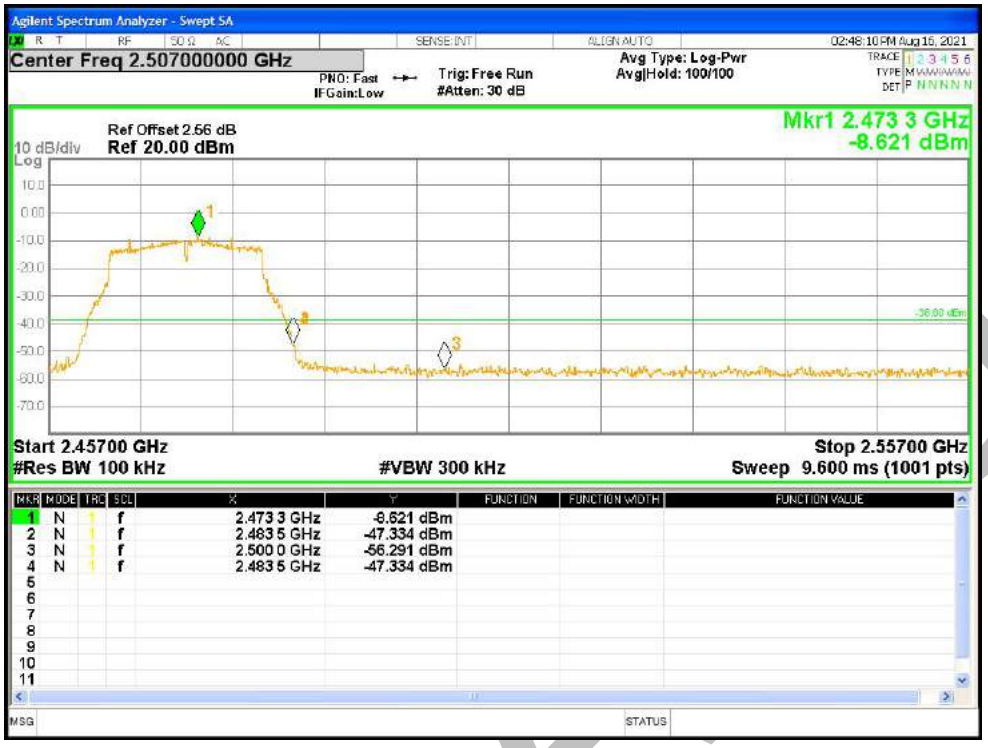


Band Edge NVNT g 2412MHz Ant1 Ref

Band Edge NVNT g 2412MHz Ant1 Emission

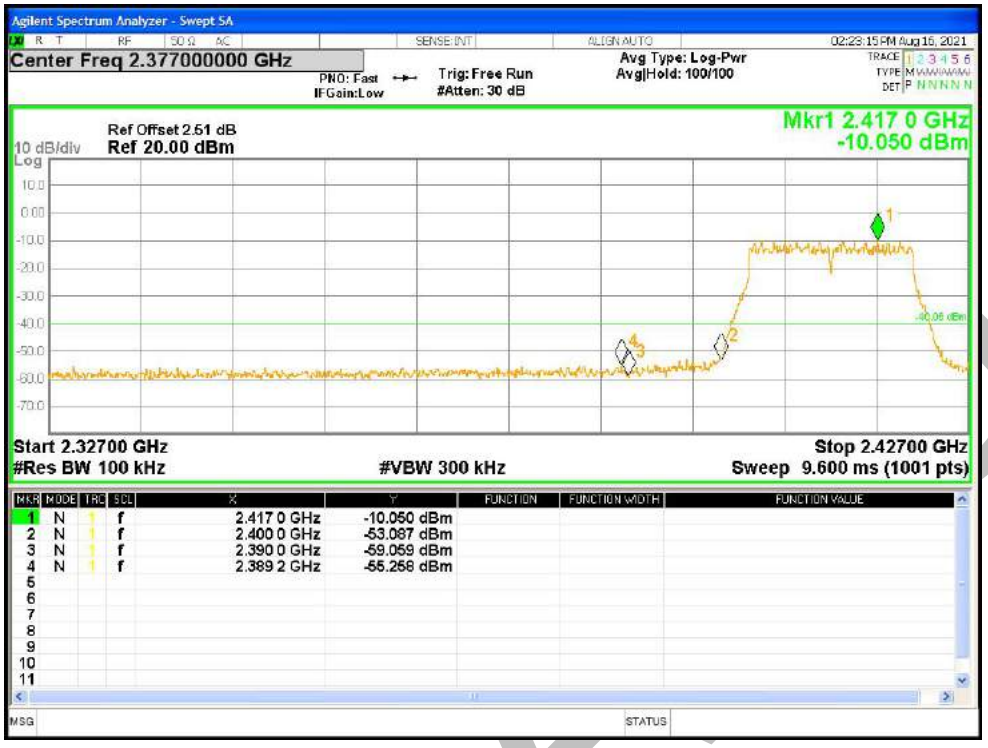
Band Edge NVNT g 2472MHz Ant1 Ref

Band Edge NVNT g 2472MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref

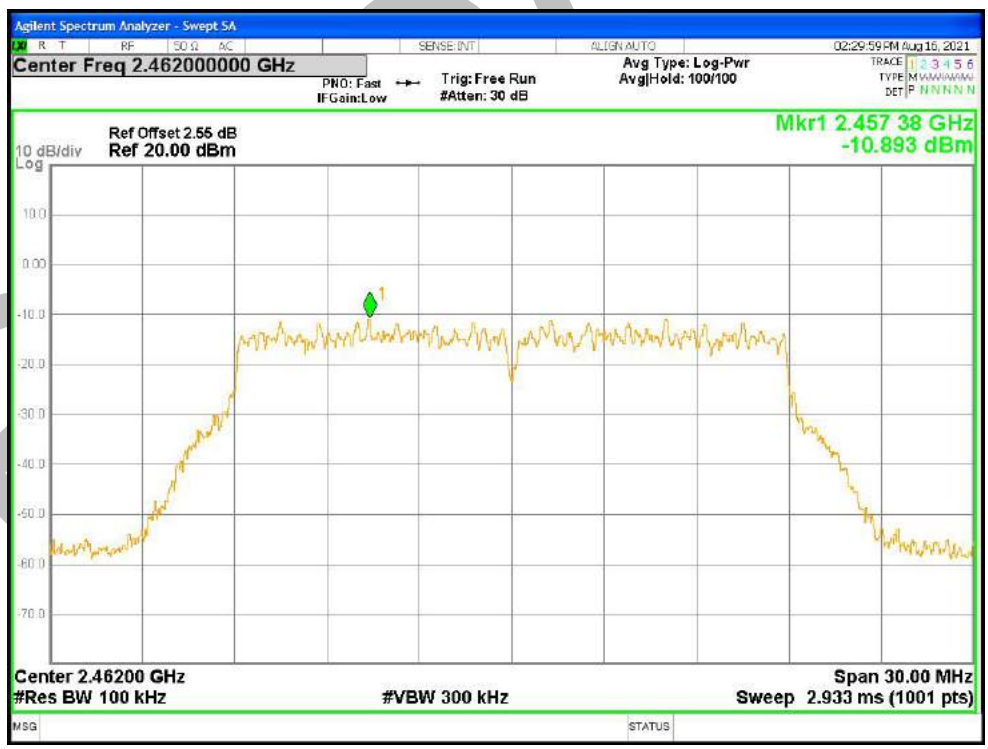
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant2 Ref

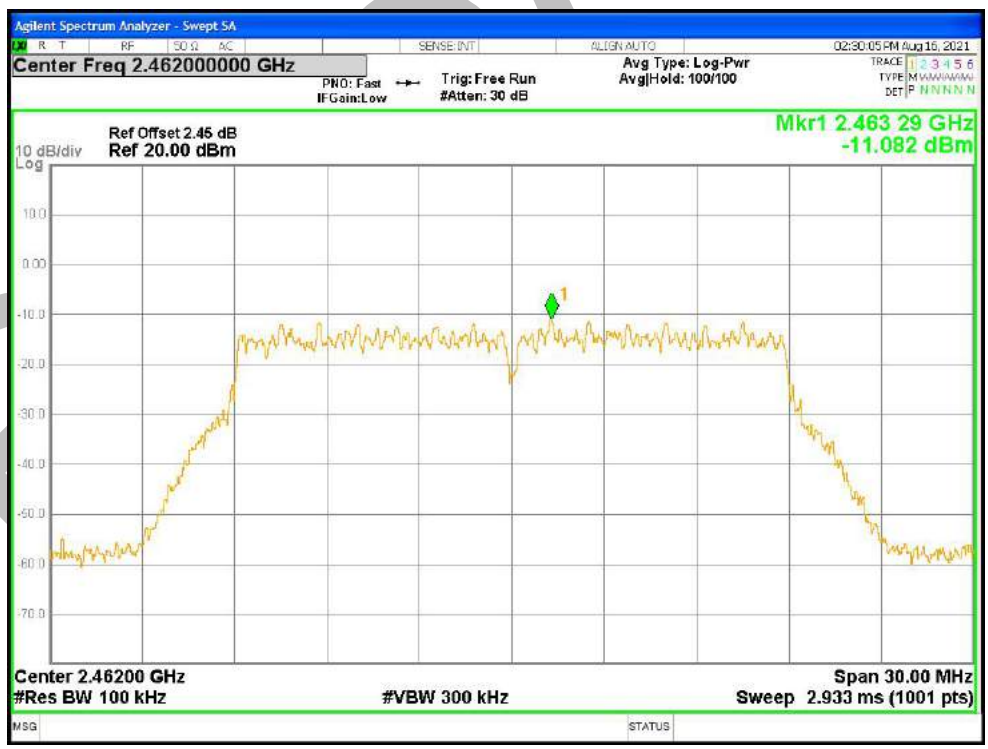
Band Edge NVNT n20 2412MHz Ant2 Emission

Band Edge NVNT n20 2462MHz Ant1 Ref

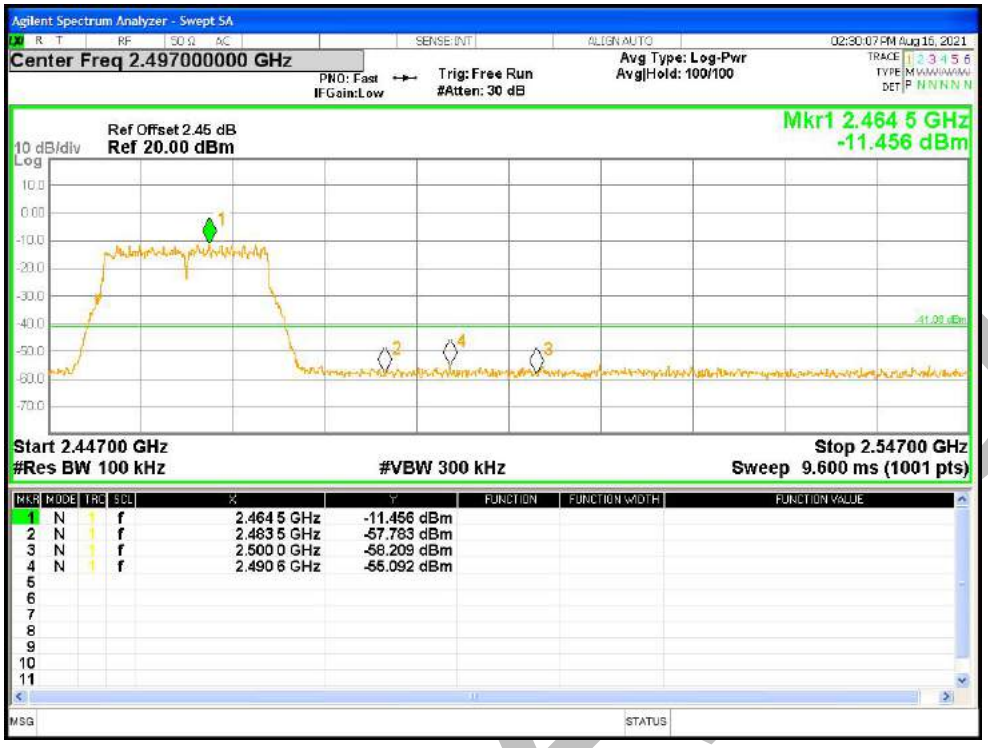


Band Edge NVNT n20 2462MHz Ant1 Emission

Band Edge NVNT n20 2462MHz Ant2 Ref



Band Edge NVNT n20 2462MHz Ant2 Emission



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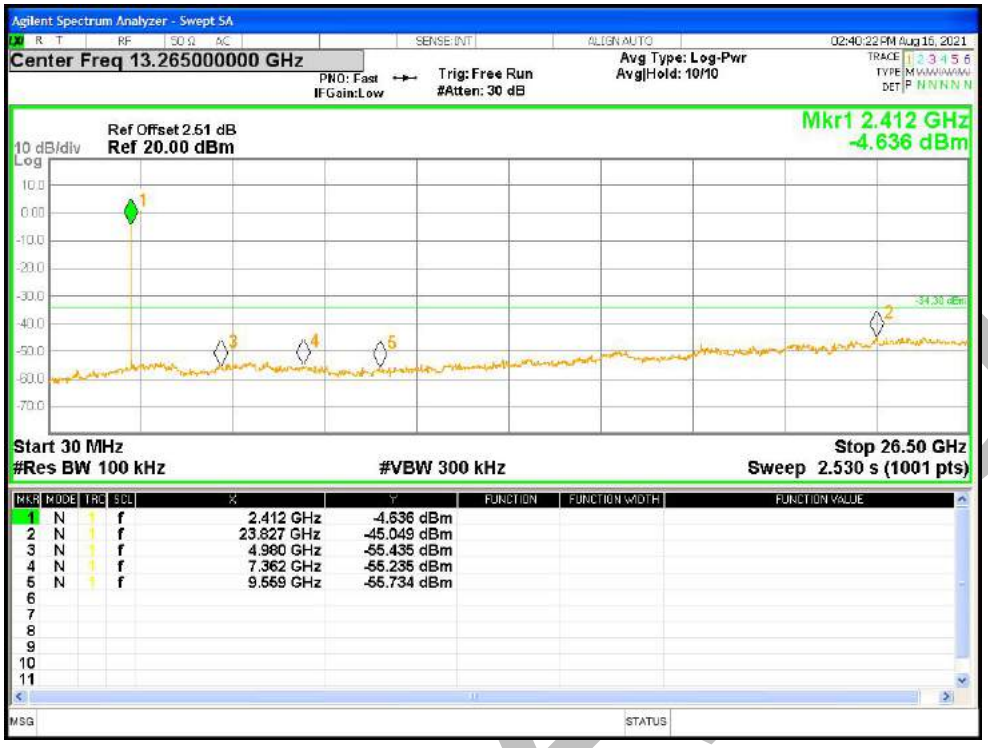
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-40.74	-30	Pass
NVNT	b	2442	Ant1	-40	-30	Pass
NVNT	b	2472	Ant1	-40.06	-30	Pass
NVNT	g	2412	Ant1	-35.85	-30	Pass
NVNT	g	2442	Ant1	-35.66	-30	Pass
NVNT	g	2472	Ant1	-35.49	-30	Pass
NVNT	n20	2412	Ant1	-34.58	-30	Pass
NVNT	n20	2412	Ant2	-33.86	-30	Pass
NVNT	n20	2437	Ant1	-34.92	-30	Pass
NVNT	n20	2437	Ant2	-34.32	-30	Pass
NVNT	n20	2462	Ant1	-34.07	-30	Pass
NVNT	n20	2462	Ant2	-33.8	-30	Pass

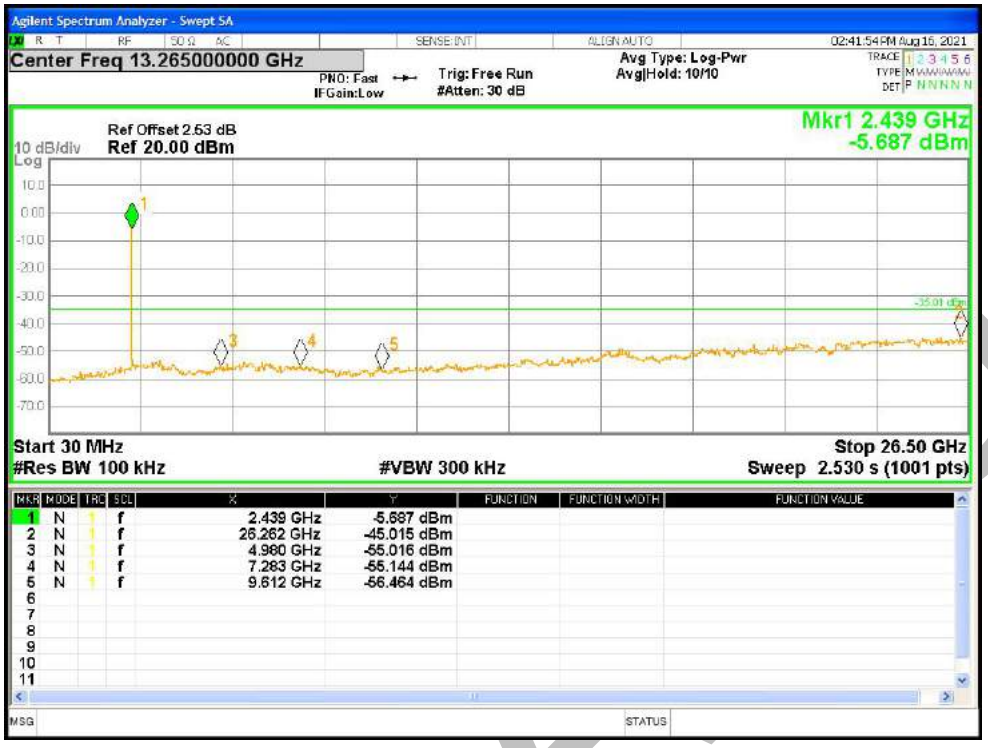
Tx. Spurious NVNT b 2412MHz Ant1 Ref

Tx. Spurious NVNT b 2412MHz Ant1 Emission



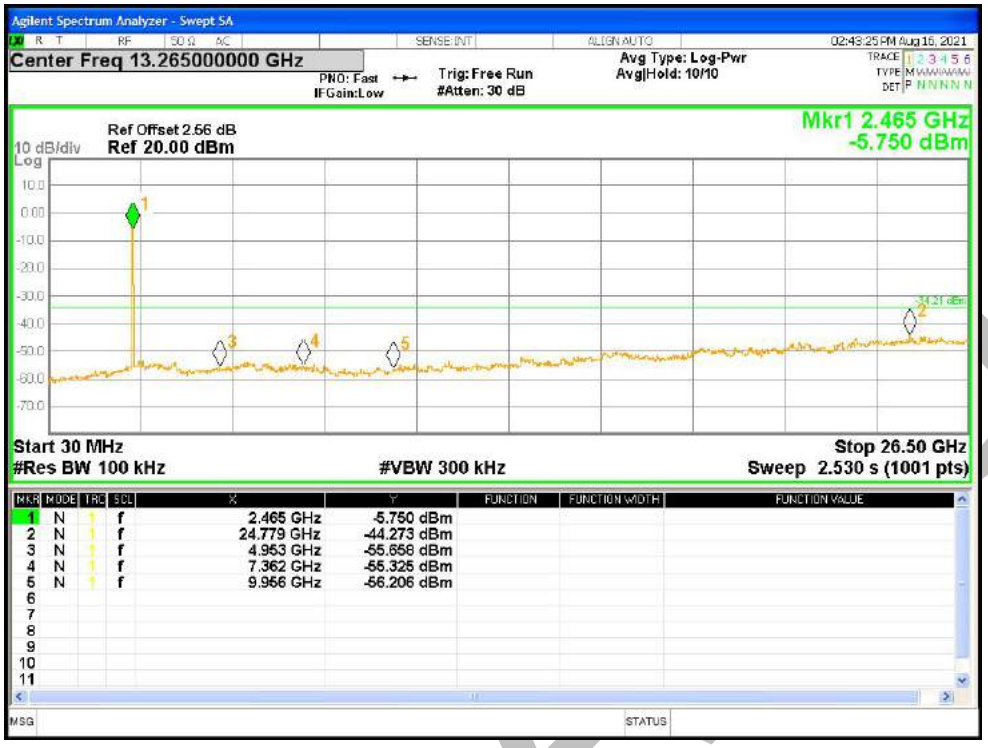
Tx. Spurious NVNT b 2442MHz Ant1 Ref

Tx. Spurious NVNT b 2442MHz Ant1 Emission



Tx. Spurious NVNT b 2472MHz Ant1 Ref

Tx. Spurious NVNT b 2472MHz Ant1 Emission



Tx. Spurious NVNT g 2412MHz Ant1 Ref

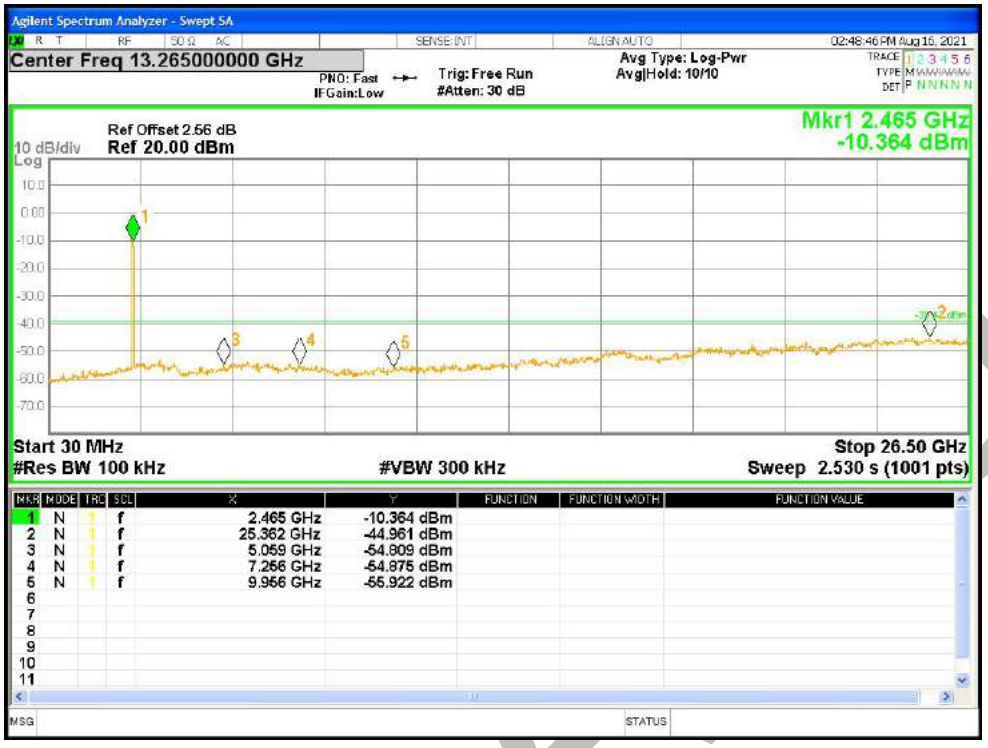
Tx. Spurious NVNT g 2412MHz Ant1 Emission

Tx. Spurious NVNT g 2442MHz Ant1 Ref

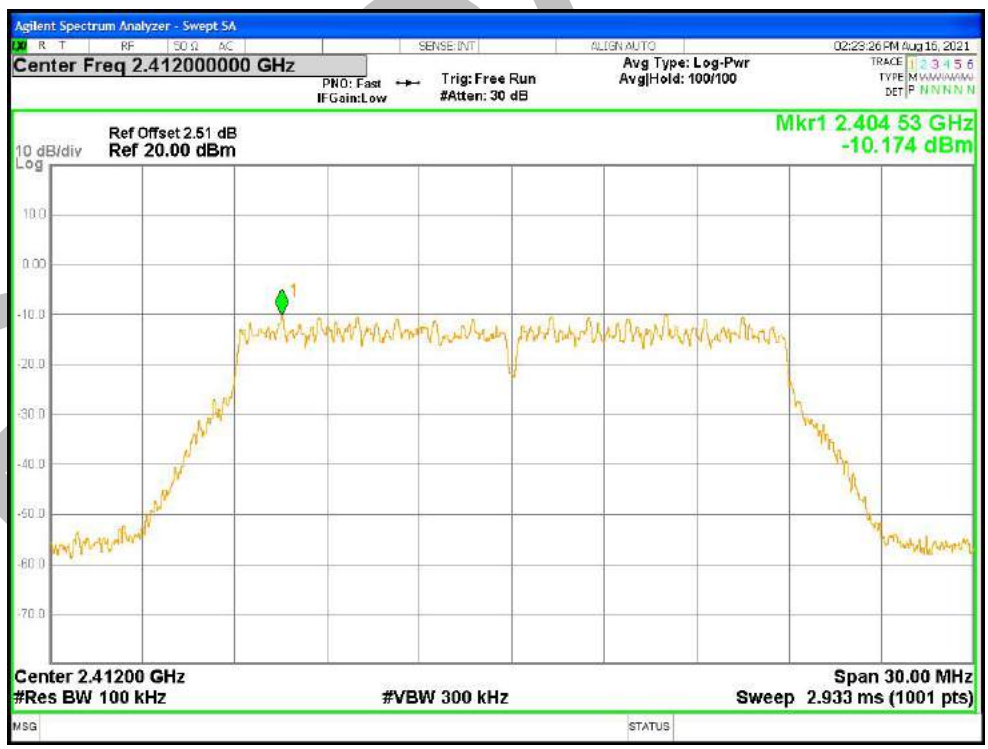
Tx. Spurious NVNT g 2442MHz Ant1 Emission

Tx. Spurious NVNT g 2472MHz Ant1 Ref

Tx. Spurious NVNT g 2472MHz Ant1 Emission

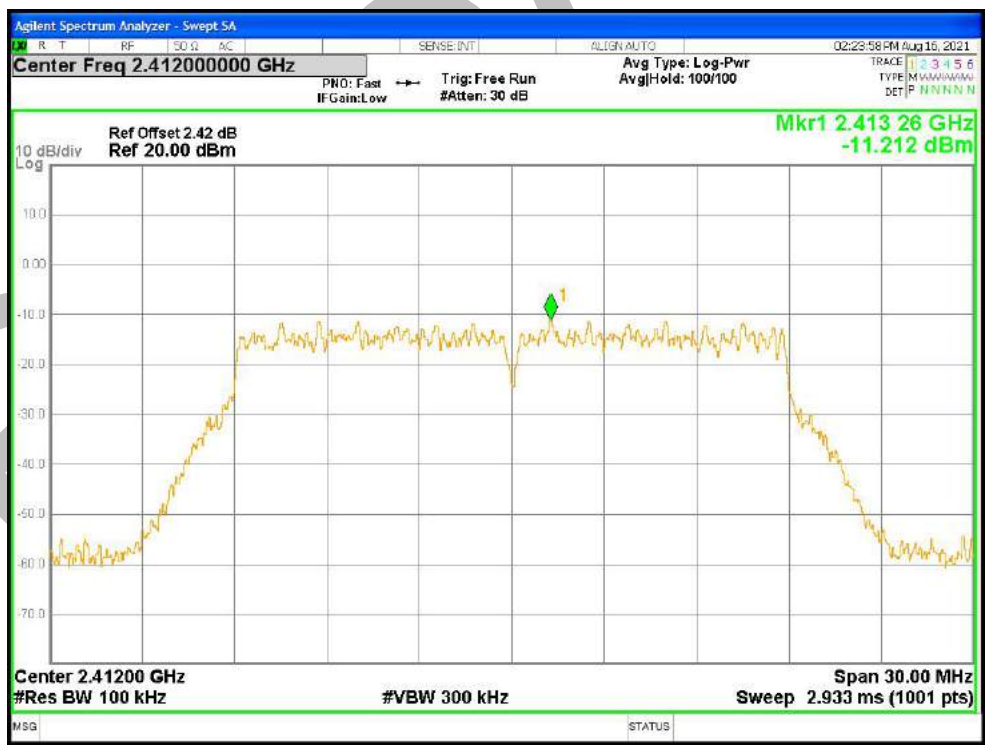


Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission

Tx. Spurious NVNT n20 2412MHz Ant2 Ref

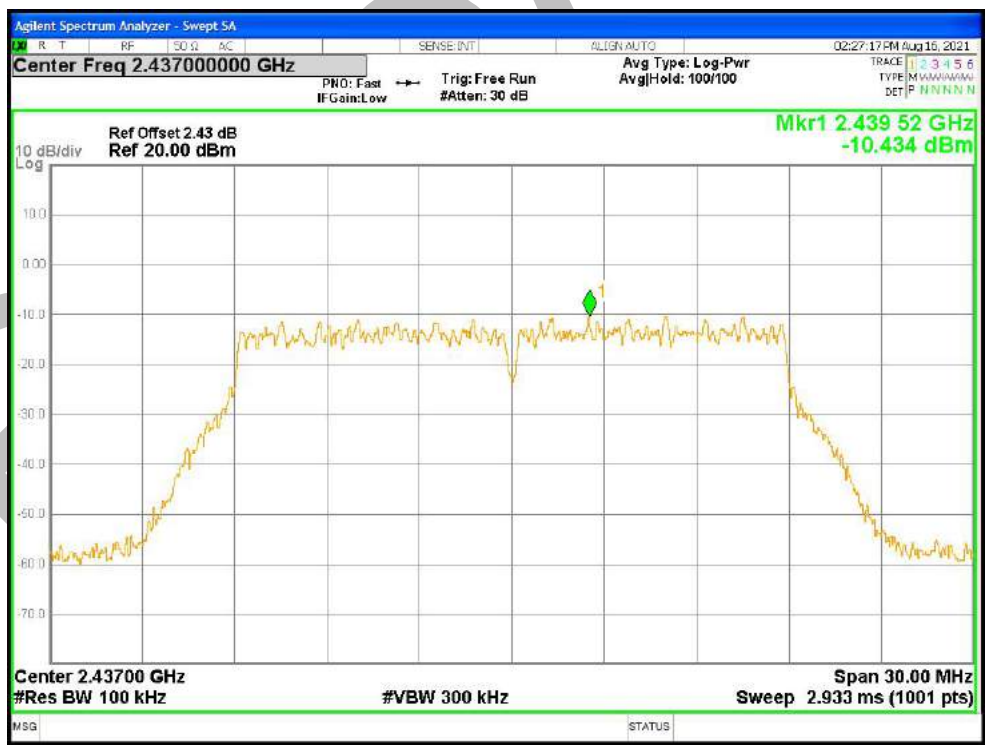


Tx. Spurious NVNT n20 2412MHz Ant2 Emission

Tx. Spurious NVNT n20 2437MHz Ant1 Ref

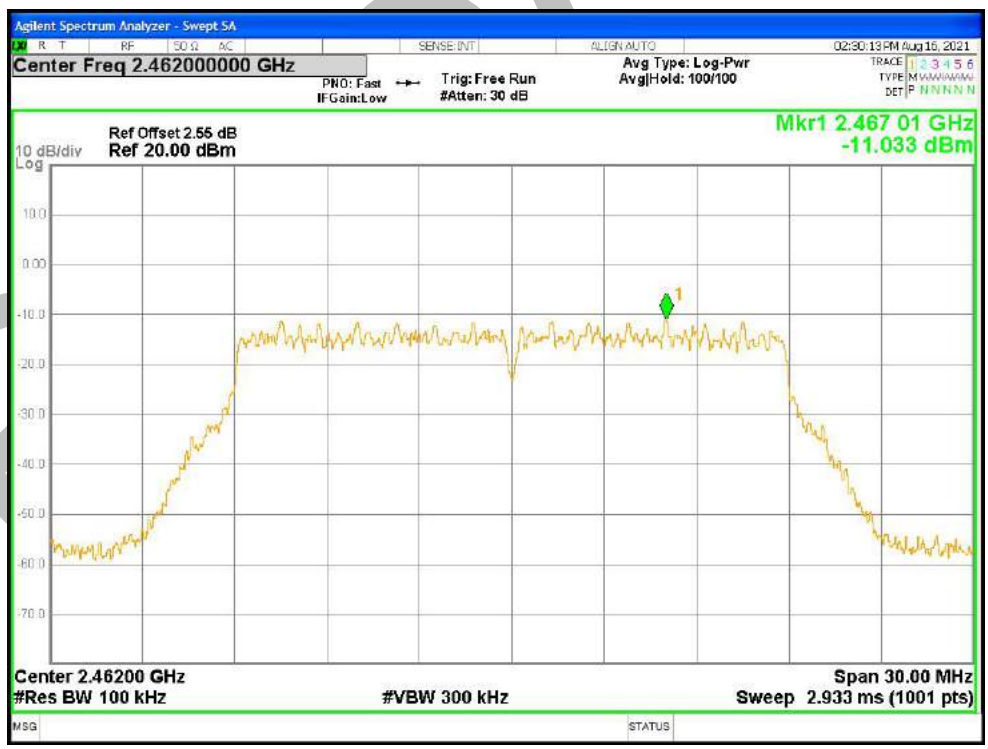
Tx. Spurious NVNT n20 2437MHz Ant1 Emission

Tx. Spurious NVNT n20 2437MHz Ant2 Ref



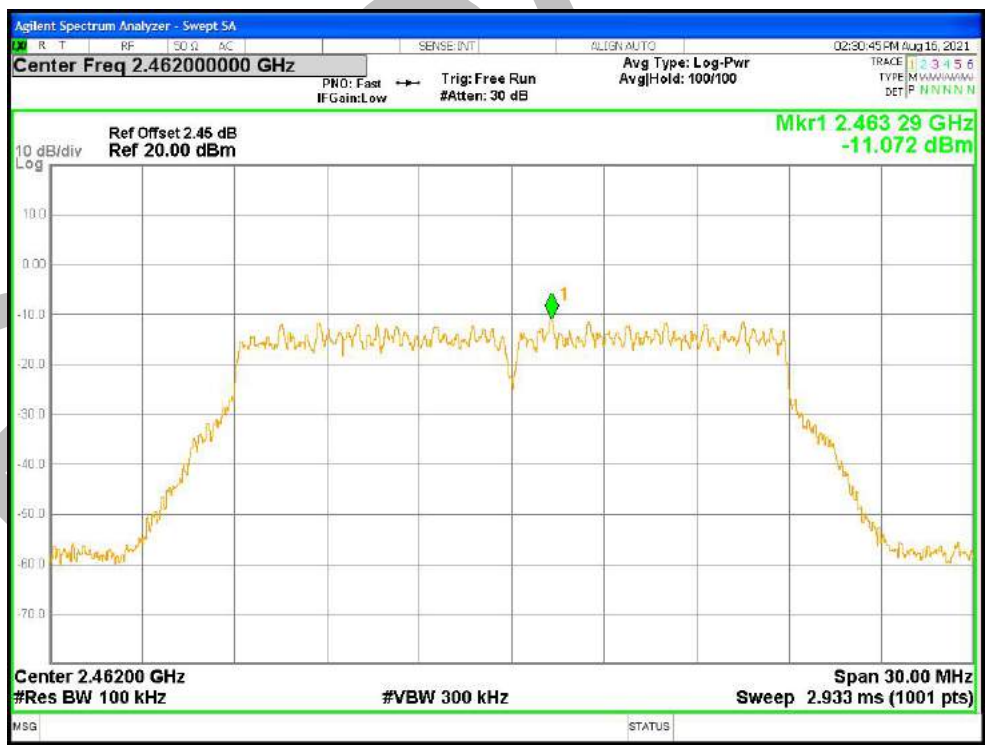
Tx. Spurious NVNT n20 2437MHz Ant2 Emission

Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission

Tx. Spurious NVNT n20 2462MHz Ant2 Ref



Tx. Spurious NVNT n20 2462MHz Ant2 Emission

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APPENDIX A: PHOTOGRAPHS OF EUT

(Reference to the report NO.BLA-EMC-202107-A7501)

----END OF REPORT----

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