TEST REPORT

Report No.:	BCTC2210164380-4E
Applicant:	CP & EB IT
Product Name:	AAWireless
Model/Type reference:	AAWireless-002
Tested Date:	2022-10-17 to 2022-10-19
Issued Date:	2022-10-20

Shenzhen BCTC Testing Co., Ltd.

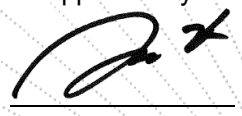
FCC ID: 2A88L-AAW002

Product Name:	AAWireless
Trademark:	N/A
Model/Type reference:	AAWireless-002
Prepared For:	CP & EB IT
Address:	Helperpark 284-1, Groningen, 9723 ZA, Netherlands
Manufacturer:	ROCKPI TRADING LIMITED
Address:	603, Block B, FengHuang Zhigu Building No.50 Tiezai Road, Xixiang, Baoan, Shenzhen, 518102, China
Prepared By:	Shenzhen BCTC Testing Co., Ltd.
Address:	1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date:	2022-10-17
Sample tested Date:	2022-10-17 to 2022-10-19
Issue Date:	2022-10-20
Report No.:	BCTC2210164380-4E
Test Standards:	FCC Part15 15.407 ANSI C63.10-2013 KDB 789033 D02 v02r01
Test Results:	PASS

Tested by:

Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

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Table Of Content

(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2210164380-4E	2022-10-20	Original	Valid

2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Spurious Radiated Emissions	15.209(a), 15.407 (b)(1) 15.407 (b)(4) 15.407 (b)(8)	PASS
2	Conducted Emission	15.207	PASS
3	26 dB and 99% Emission Bandwidth	15.407 (a)(12) 15.1049	PASS
4	Minimum 6 dB bandwidth	15.407(e)	PASS
5	Maximum Conducted Output Power	15.407 (a)(1) 15.407 (a)(3)	PASS
6	Band Edge	15.407(b)(1) 15.407(b)(4)	PASS
7	Power Spectral Density	15.407 (a)(1) 15.407 (a)(3)	PASS
8	Spurious Emissions at Antenna Terminals	15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59℃

4. Product Information And Test Setup

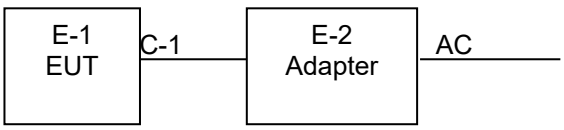
4.1 Product Information

Model/Type Ref.:	AAWireless-002
Model differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
IEEE 802.11 WLAN Mode Supported	802.11a/n/ac(20MHz channel bandwidth) 802.11n/ac(40MHz channel bandwidth) 802.11ac(80MHz channel bandwidth)
Operation Frequency:	5180-5240MHz for 802.11a/n(HT20); 5190-5230MHz for 802.11n(HT40); 5210MHz for 802.11 ac80; 5745-5825 MHz for 802.11a/n(HT20); 5755-5795 MHz for 802.11n(HT40); 5775MHz for 802.11 ac80;
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS
Type of Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Number Of Channel	4 channels for 802.11a/n20 in the 5180-5240MHz band ; 2 channels for 802.11 n40 in the 5190-5230MHz band ; 1 channels for 802.11 ac80 in the 5210MHz band ; 5 channels for 802.11a/n20 in the 5745-5825MHz band ; 2 channels for 802.11 n40 in the 5755-5795MHz band ; 1 channels for 802.11 ac80 in the 5775MHz band
Antenna installation:	Internal antenna
Antenna Gain:	2.9 dBi
Ratings:	DC 5V from PC

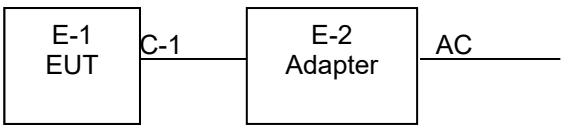
4.2 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission:



Radiated Spurious Emission



4.3 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	AAWireless	N/A	AAWireless-002	N/A	EUT
E-2	PC	N/A	N/A	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	N/A	N/A	1M	DC cable unshielded

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.4 Channel List

5.1G

802.11a/n/ac(20MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

802.11n /ac(40MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

802.11ac (80MHz) Carrier Frequency Channel	
Channel	Frequency (MHz)
42	5210

5.8G

802.11a/n/ac(20 MHz) Carrier Frequency Channel							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

802.11n/ac 40MHz Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

802.11ac 80MHz Carrier Frequency Channel	
Channel	Frequency (MHz)
155	5775

4.5 Test Mode

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

Pretest Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155
Mode 4	Link Mode

Conducted Emission	
Final Test Mode	Description
Mode 4	Link Mode

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 2	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 3	802.11 ac80 CH 42/CH 155

Note:

(1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported.

4.6 Table Of Parameters Of Text Software Setting

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

Test software Version	**CMD**		
Parameters	DEF	DEF	DEF

5. Test Facility And Test Instrument Used

5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.
FCC Test Firm Registration Number: 712850
IC Registered No.: 23583

5.2 Test Instrument Used

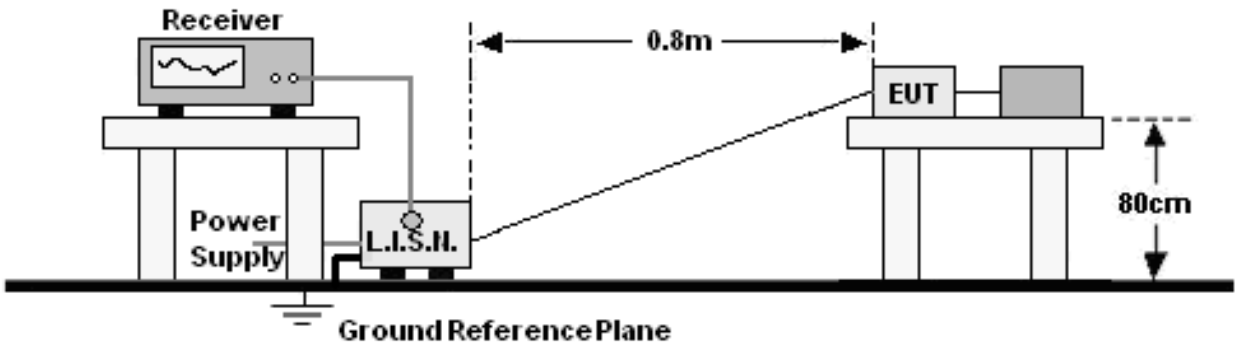
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023

RF Conducted Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Power Metter	Keysight	E4419	\	May 24, 2022	May 23, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 24, 2022	May 23, 2023
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	\	May 24, 2022	May 23, 2023

Radiated Emissions Test (966 Chamber01)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023
Amplifier	SKET	LAPA_01G18G-45dB	\	May 24, 2022	May 23, 2023
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023
Horn Antenna(18GHz-40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023
Amplifier(18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 26, 2022	May 25, 2023
Loop Antenna(9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023
Power Metter	Keysight	E4419	\	May 26, 2022	May 25, 2023
Power Sensor (AV)	Keysight	E9300A	\	May 26, 2022	May 25, 2023
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 26, 2022	May 25, 2023
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	\	May 26, 2022	May 25, 2023
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

6. Conducted Emissions

6.1 Block Diagram Of Test Setup



6.2 Limit

Frequency (MHz)	Limit (dBuV)	
	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Notes:
1. *Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

6.3 Test Procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

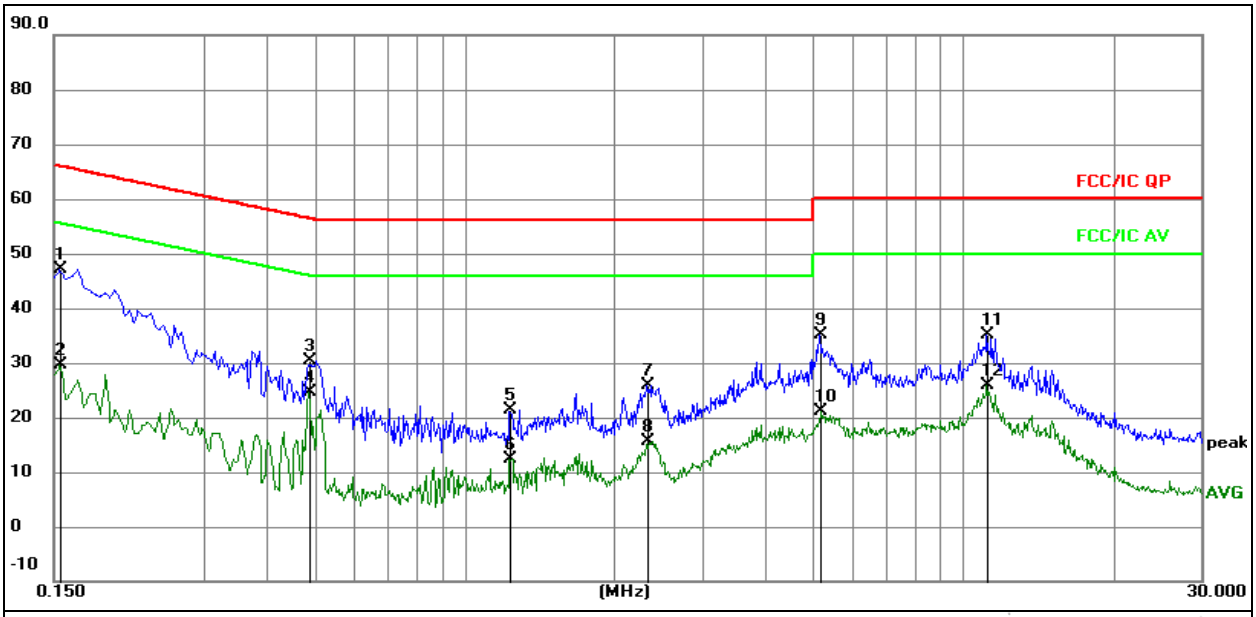
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

6.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

6.5 Test Result

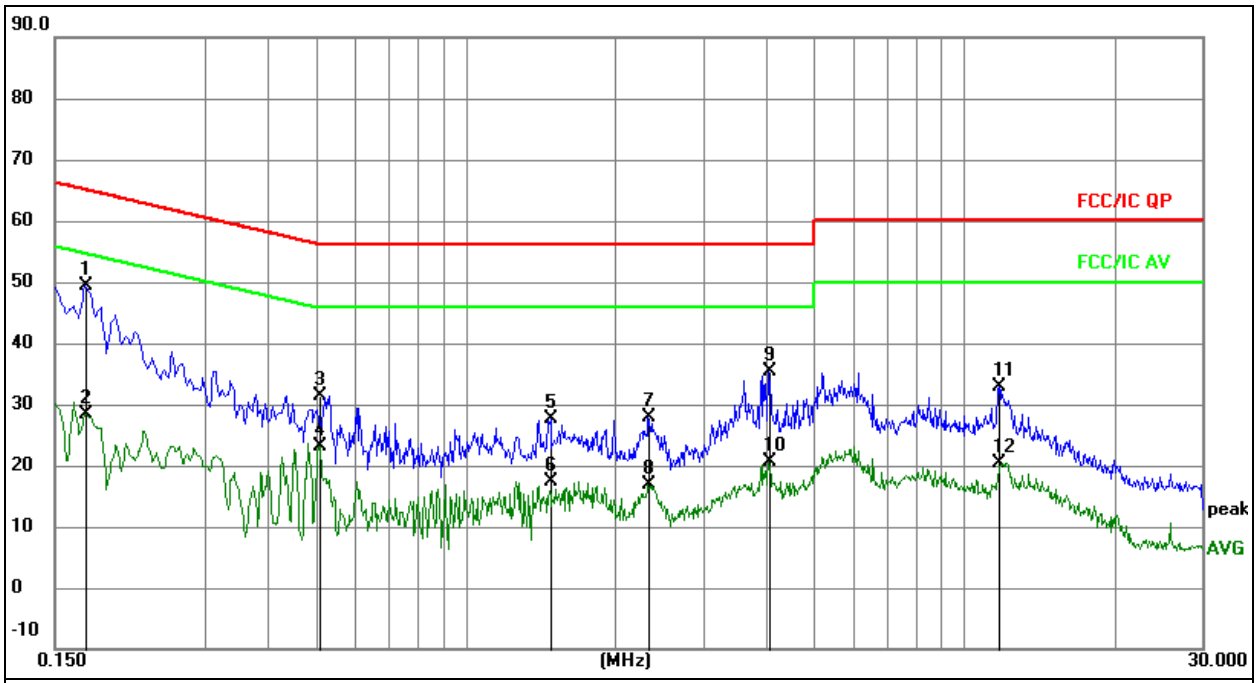
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 1	Test Voltage :	AC120V/60Hz



Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over= Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1545	27.45	19.68	47.13	65.75	-18.62	QP
2		0.1545	9.84	19.68	29.52	55.75	-26.23	AVG
3		0.4875	10.60	19.72	30.32	56.21	-25.89	QP
4		0.4875	4.99	19.72	24.71	46.21	-21.50	AVG
5		1.2345	1.56	19.79	21.35	56.00	-34.65	QP
6		1.2345	-7.43	19.79	12.36	46.00	-33.64	AVG
7		2.3325	6.02	19.92	25.94	56.00	-30.06	QP
8		2.3325	-4.18	19.92	15.74	46.00	-30.26	AVG
9		5.1495	14.96	20.13	35.09	60.00	-24.91	QP
10		5.1495	0.88	20.13	21.01	50.00	-28.99	AVG
11		11.1750	14.92	20.28	35.20	60.00	-24.80	QP
12		11.1750	5.68	20.28	25.96	50.00	-24.04	AVG

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 1	Test Voltage :	AC120V/60Hz



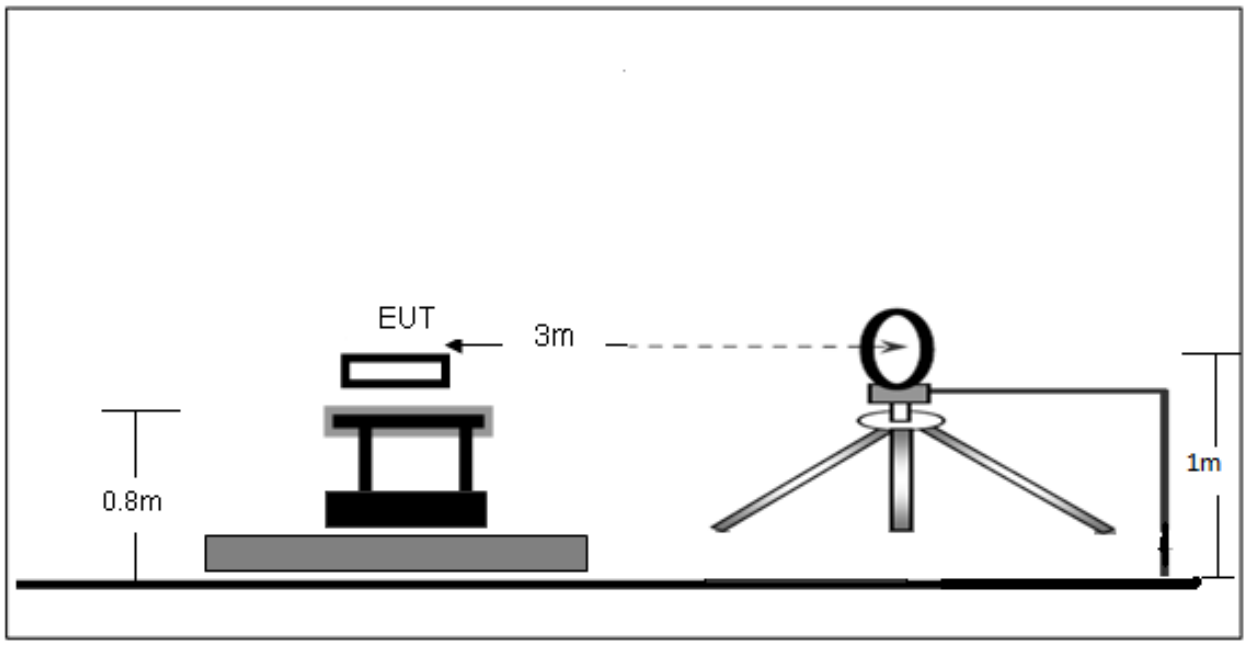
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over1 Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1722	29.59	19.73	49.32	64.85	-15.53	QP
2		0.1722	8.62	19.73	28.35	54.85	-26.50	AVG
3		0.5074	11.61	19.72	31.33	56.00	-24.67	QP
4		0.5074	3.48	19.72	23.20	46.00	-22.80	AVG
5		1.4796	7.75	19.82	27.57	56.00	-28.43	QP
6		1.4796	-2.54	19.82	17.28	46.00	-28.72	AVG
7		2.3213	7.98	19.92	27.90	56.00	-28.10	QP
8		2.3213	-3.12	19.92	16.80	46.00	-29.20	AVG
9		4.0489	15.25	20.10	35.35	56.00	-20.65	QP
10		4.0489	0.61	20.10	20.71	46.00	-25.29	AVG
11		11.7446	12.51	20.28	32.79	60.00	-27.21	QP
12		11.7446	0.19	20.28	20.47	50.00	-29.53	AVG

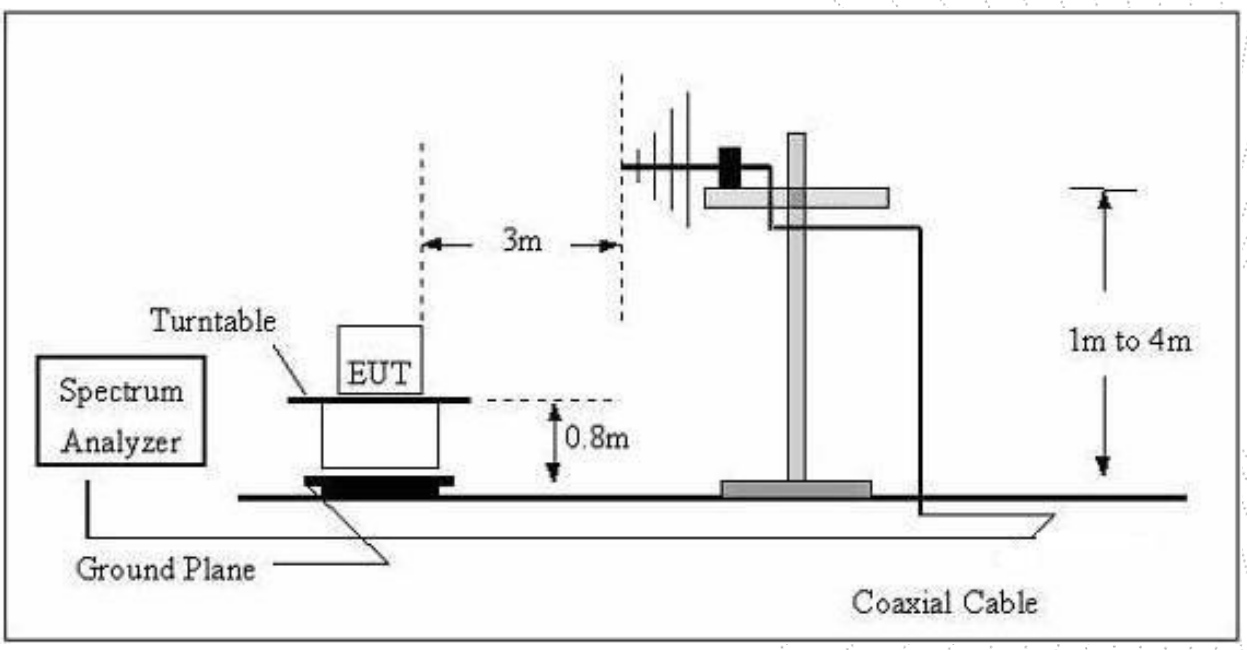
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

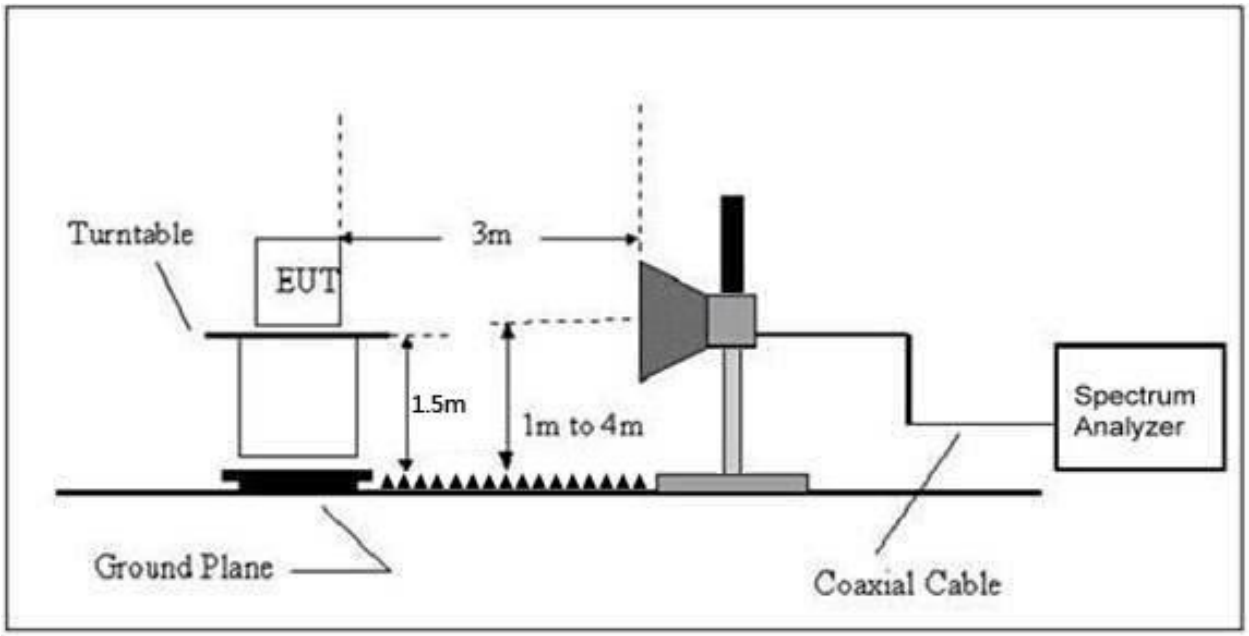
（A）Radiated Emission Test-Up Frequency Below 30MHz



（B）Radiated Emission Test-Up Frequency 30MHz~1GHz



（C）Radiated Emission Test-Up Frequency Above 1GHz



7.2 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequency	Field Strength	Distance	Field Strength Limit at 3m Distance	
(MHz)	uV/m	(m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))}$ + 80
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))}$ + 40
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)}$ + 40
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

Limits Of Radiated Emission Measurement (Above 1000MHz)

Frequency (MHz)	Limit (dBuV/m) (at 3M)	
	Peak	Average
Above 1000	74	54

Notes:
(1)The limit for radiated test was performed according to FCC PART 15C.
(2)The tighter limit applies at the band edges.
(3) Emission level (dBuV/m)=20log Emission level (uV/m).

7.3 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.
This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205.
It must be performed with the highest gain of each type of antenna proposed for use with the EUT.
Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	10 Hz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the
narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

7.5 Test Result

Below 30MHz

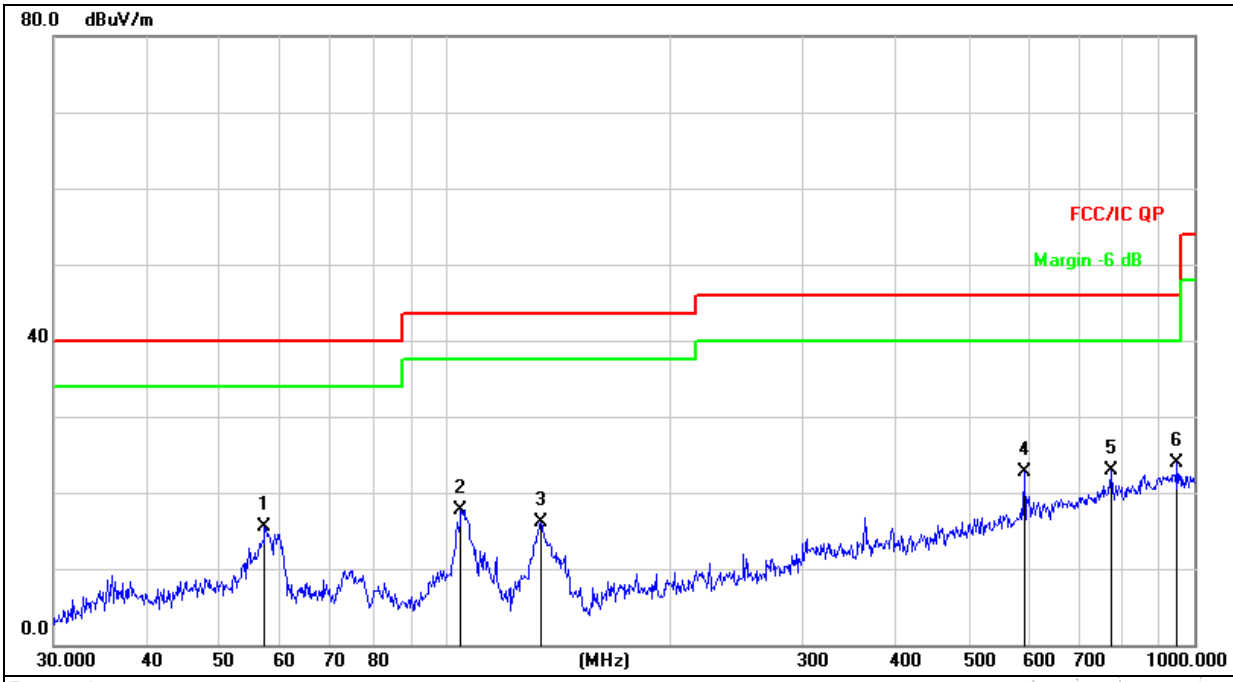
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 1	Polarization:	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

Note:
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

Between 30MHz – 1GHz

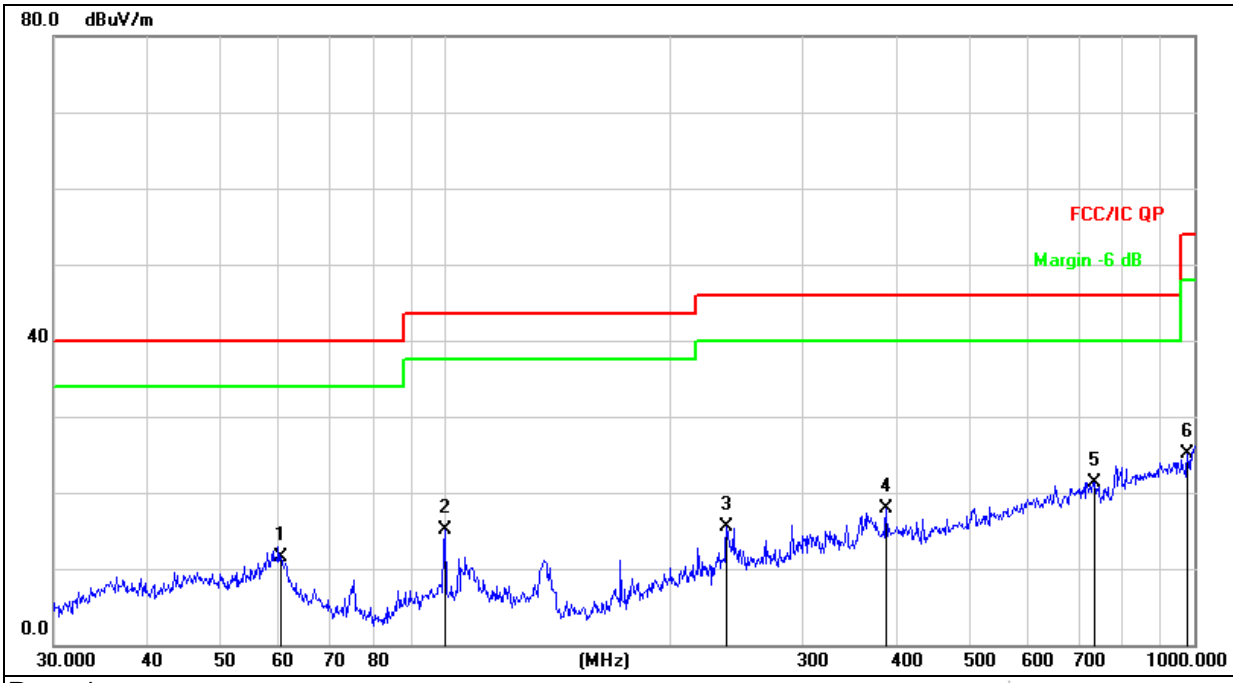
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 1	Test Voltage :	AC120V/60Hz



Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		57.3923	31.77	-16.29	15.48	40.00	-24.52	QP
2		104.9033	34.73	-17.04	17.69	43.50	-25.81	QP
3		134.0882	35.00	-18.86	16.14	43.50	-27.36	QP
4		593.0497	28.40	-5.70	22.70	46.00	-23.30	QP
5		774.1584	25.59	-2.73	22.86	46.00	-23.14	QP
6	*	948.7610	24.32	-0.51	23.81	46.00	-22.19	QP

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 1	Test Voltage :	AC120V/60Hz



Remark:
1.Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement=Reading Level+ Correct Factor
3. Over= Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		60.2801	28.25	-16.80	11.45	40.00	-28.55	QP
2		99.8777	31.86	-16.75	15.11	43.50	-28.39	QP
3		237.4760	30.08	-14.63	15.45	46.00	-30.55	QP
4		387.9920	28.18	-10.28	17.90	46.00	-28.10	QP
5	*	737.0714	24.75	-3.41	21.34	46.00	-24.66	QP
6		979.1804	25.24	-0.09	25.15	54.00	-28.85	QP

Between 1GHz – 40GHz

Test Mode:	TX(5.1G) - 802.11a

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.170	64.51	5.94	35.40	44.00	61.85	68.2	-6.35	PK
V	4434.170	43.70	5.94	35.40	44.00	41.04	54	-12.96	AV
V	10360.184	60.10	8.46	39.75	44.50	63.81	68.2	-4.39	PK
V	10360.184	43.46	8.46	39.75	44.50	47.17	54	-6.83	AV
V	15540.119	61.16	10.12	38.80	44.10	65.98	74	-8.02	PK
V	15540.119	43.92	10.12	38.80	42.70	50.14	54	-3.86	AV
H	4434.057	61.23	5.94	35.18	44.00	58.35	68.2	-9.85	PK
H	4434.057	43.80	5.94	35.18	44.00	40.92	54	-13.08	AV
H	10360.050	53.06	8.46	38.71	44.50	55.73	68.2	-12.47	PK
H	10360.050	40.82	8.46	38.71	44.50	43.49	54	-10.51	AV
H	15540.061	50.57	10.12	38.38	44.10	54.97	74	-19.03	PK
H	15540.061	43.86	10.12	38.38	44.10	48.26	54	-5.74	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.106	64.31	6.48	36.35	44.05	63.09	74	-10.91	PK
V	4592.106	43.41	6.48	36.35	44.05	42.19	54	-11.81	AV
V	10400.020	60.65	8.47	37.88	44.51	62.49	68.2	-5.71	PK
V	10400.020	43.09	8.47	37.88	44.51	44.93	54	-9.07	AV
V	15600.161	63.76	10.12	38.80	44.10	68.58	74	-5.42	PK
V	15600.161	43.17	10.12	38.80	42.70	49.39	54	-4.61	AV
H	4592.134	64.25	6.48	36.37	44.05	63.05	74	-10.95	PK
H	4592.134	43.18	6.48	36.37	44.05	41.98	54	-12.02	AV
H	10400.084	53.53	8.47	38.64	44.50	56.14	68.2	-12.06	PK
H	10400.084	42.08	8.47	38.64	44.50	44.69	54	-9.31	AV
H	15600.003	51.69	10.12	38.38	44.10	56.09	74	-17.91	PK
H	15600.003	44.62	10.12	38.38	44.10	49.02	54	-4.98	AV
High Channel (5240 MHz)-Above 1G									
V	4739.041	61.91	7.10	37.24	43.50	62.75	74	-11.25	PK
V	4739.041	43.64	7.10	37.24	43.50	44.48	54	-9.52	AV
V	10480.015	60.16	8.46	37.68	44.50	61.80	68.2	-6.40	PK
V	10480.015	43.53	8.46	37.68	44.50	45.17	54	-8.83	AV
V	15720.092	60.85	10.12	38.80	44.10	65.67	74	-8.33	PK
V	15720.092	43.19	10.12	38.80	42.70	49.41	54	-4.59	AV
H	4739.165	64.06	7.10	37.24	43.50	64.90	74	-9.10	PK
H	4739.165	43.89	7.10	37.24	43.50	44.73	54	-9.27	AV
H	10480.175	51.14	8.46	38.57	44.50	53.67	68.2	-14.53	PK
H	10480.175	41.21	8.46	38.57	44.50	43.74	54	-10.26	AV
H	15720.142	54.09	10.12	38.38	44.10	58.49	74	-15.51	PK
H	15720.142	44.50	10.12	38.38	44.10	48.90	54	-5.10	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.195	61.00	5.94	35.40	44.00	58.34	68.2	-9.86	PK
V	4434.195	43.45	5.94	35.40	44.00	40.79	54	-13.21	AV
V	10360.173	63.10	8.46	39.75	44.50	66.81	68.2	-1.39	PK
V	10360.173	43.96	8.46	39.75	44.50	47.67	54	-6.33	AV
V	15540.011	60.88	10.12	38.80	44.10	65.70	74	-8.30	PK
V	15540.011	43.22	10.12	38.80	42.70	49.44	54	-4.56	AV
H	4434.002	63.56	5.94	35.18	44.00	60.68	68.2	-7.52	PK
H	4434.002	43.95	5.94	35.18	44.00	41.07	54	-12.93	AV
H	10360.163	51.09	8.46	38.71	44.50	53.76	68.2	-14.44	PK
H	10360.163	42.31	8.46	38.71	44.50	44.98	54	-9.02	AV
H	15540.015	51.34	10.12	38.38	44.10	55.74	74	-18.26	PK
H	15540.015	42.09	10.12	38.38	44.10	46.49	54	-7.51	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.037	63.04	6.48	36.35	44.05	61.82	74	-12.18	PK
V	4592.037	43.20	6.48	36.35	44.05	41.98	54	-12.02	AV
V	10400.181	61.35	8.47	37.88	44.51	63.19	68.2	-5.01	PK
V	10400.181	43.92	8.47	37.88	44.51	45.76	54	-8.24	AV
V	15600.178	61.09	10.12	38.80	44.10	65.91	74	-8.09	PK
V	15600.178	43.80	10.12	38.80	42.70	50.02	54	-3.98	AV
H	4592.154	64.03	6.48	36.37	44.05	62.83	74	-11.17	PK
H	4592.154	43.89	6.48	36.37	44.05	42.69	54	-11.31	AV
H	10400.036	51.41	8.47	38.64	44.50	54.02	68.2	-14.18	PK
H	10400.036	44.14	8.47	38.64	44.50	46.75	54	-7.25	AV
H	15600.038	52.26	10.12	38.38	44.10	56.66	74	-17.34	PK
H	15600.038	41.77	10.12	38.38	44.10	46.17	54	-7.83	AV
High Channel (5240 MHz)-Above 1G									
V	4739.052	64.24	7.10	37.24	43.50	65.08	74	-8.92	PK
V	4739.052	43.77	7.10	37.24	43.50	44.61	54	-9.39	AV
V	10480.178	62.36	8.46	37.68	44.50	64.00	68.2	-4.20	PK
V	10480.178	43.45	8.46	37.68	44.50	45.09	54	-8.91	AV
V	15720.087	63.48	10.12	38.80	44.10	68.30	74	-5.70	PK
V	15720.087	43.89	10.12	38.80	42.70	50.11	54	-3.89	AV
H	4739.176	64.30	7.10	37.24	43.50	65.14	74	-8.86	PK
H	4739.176	43.45	7.10	37.24	43.50	44.29	54	-9.71	AV
H	10480.016	54.70	8.46	38.57	44.50	57.23	68.2	-10.97	PK
H	10480.016	40.61	8.46	38.57	44.50	43.14	54	-10.86	AV
H	15720.025	50.86	10.12	38.38	44.10	55.26	74	-18.74	PK
H	15720.025	43.04	10.12	38.38	44.10	47.44	54	-6.56	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11n-HT40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.156	61.31	5.94	35.40	44.00	58.65	68.2	-9.55	PK
V	4434.156	43.29	5.94	35.40	44.00	40.63	54	-13.37	AV
V	10380.125	60.75	8.46	39.75	44.50	64.46	68.2	-3.74	PK
V	10380.125	43.49	8.46	39.75	44.50	47.20	54	-6.80	AV
V	15570.170	62.83	10.12	38.80	44.10	67.65	74	-6.35	PK
V	15570.170	43.41	10.12	38.80	42.70	49.63	54	-4.37	AV
H	4434.144	60.67	5.94	35.18	44.00	57.79	74	-16.21	PK
H	4434.144	43.87	5.94	35.18	44.00	40.99	54	-13.01	AV
H	10380.183	52.30	8.46	38.71	44.50	54.97	68.2	-13.23	PK
H	10380.183	43.48	8.46	38.71	44.50	46.15	54	-7.85	AV
H	15570.027	54.55	10.12	38.38	44.10	58.95	74	-15.05	PK
H	15570.027	40.19	10.12	38.38	44.10	44.59	54	-9.41	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.108	60.20	6.48	36.35	44.05	58.98	68.2	-9.22	PK
V	4739.108	43.53	6.48	36.35	44.05	42.31	54	-11.69	AV
V	10460.086	64.01	8.47	37.88	44.51	65.85	68.2	-2.35	PK
V	10460.086	43.85	8.47	37.88	44.51	45.69	54	-8.31	AV
V	15690.129	60.91	10.12	38.80	44.10	65.73	74	-8.27	PK
V	15690.129	43.22	10.12	38.80	42.70	49.44	54	-4.56	AV
H	4739.112	63.91	6.48	36.37	44.05	62.71	68.2	-5.49	PK
H	4739.112	43.99	6.48	36.37	44.05	42.79	54	-11.21	AV
H	10460.146	50.93	8.47	38.64	44.50	53.54	68.2	-14.66	PK
H	10460.146	40.40	8.47	38.64	44.50	43.01	54	-10.99	AV
H	15690.181	54.40	10.12	38.38	44.10	58.80	74	-15.20	PK
H	15690.181	40.11	10.12	38.38	44.10	44.51	54	-9.49	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5180 MHz)-Above 1G									
V	4434.194	63.99	5.94	35.40	44.00	61.33	68.2	-6.87	PK
V	4434.194	43.07	5.94	35.40	44.00	40.41	54	-13.59	AV
V	10360.061	62.24	8.46	39.75	44.50	65.95	68.2	-2.25	PK
V	10360.061	43.23	8.46	39.75	44.50	46.94	54	-7.06	AV
V	15540.120	64.56	10.12	38.80	44.10	69.38	74	-4.62	PK
V	15540.120	43.81	10.12	38.80	42.70	50.03	54	-3.97	AV
H	4434.169	61.36	5.94	35.18	44.00	58.48	68.2	-9.72	PK
H	4434.169	43.32	5.94	35.18	44.00	40.44	54	-13.56	AV
H	10360.002	51.40	8.46	38.71	44.50	54.07	68.2	-14.13	PK
H	10360.002	44.83	8.46	38.71	44.50	47.50	54	-6.50	AV
H	15540.180	52.46	10.12	38.38	44.10	56.86	74	-17.14	PK
H	15540.180	40.88	10.12	38.38	44.10	45.28	54	-8.72	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.000	62.86	6.48	36.35	44.05	61.64	74	-12.36	PK
V	4592.000	43.19	6.48	36.35	44.05	41.97	54	-12.03	AV
V	10400.066	60.17	8.47	37.88	44.51	62.01	68.2	-6.19	PK
V	10400.066	43.65	8.47	37.88	44.51	45.49	54	-8.51	AV
V	15600.083	64.70	10.12	38.80	44.10	69.52	74	-4.48	PK
V	15600.083	43.02	10.12	38.80	42.70	49.24	54	-4.76	AV
H	4592.049	60.13	6.48	36.37	44.05	58.93	74	-15.07	PK
H	4592.049	43.69	6.48	36.37	44.05	42.49	54	-11.51	AV
H	10400.163	52.89	8.47	38.64	44.50	55.50	68.2	-12.70	PK
H	10400.163	42.53	8.47	38.64	44.50	45.14	54	-8.86	AV
H	15600.130	50.39	10.12	38.38	44.10	54.79	74	-19.21	PK
H	15600.130	41.04	10.12	38.38	44.10	45.44	54	-8.56	AV
High Channel (5240 MHz)-Above 1G									
V	4739.161	62.96	7.10	37.24	43.50	63.80	74	-10.20	PK
V	4739.161	43.23	7.10	37.24	43.50	44.07	54	-9.93	AV
V	10480.044	60.11	8.46	37.68	44.50	61.75	68.2	-6.45	PK
V	10480.044	43.10	8.46	37.68	44.50	44.74	54	-9.26	AV
V	15720.018	60.95	10.12	38.80	44.10	65.77	74	-8.23	PK
V	15720.018	43.23	10.12	38.80	42.70	49.45	54	-4.55	AV
H	4739.006	63.96	7.10	37.24	43.50	64.80	74	-9.20	PK
H	4739.006	43.05	7.10	37.24	43.50	43.89	54	-10.11	AV
H	10480.124	53.73	8.46	38.57	44.50	56.26	68.2	-11.94	PK
H	10480.124	40.39	8.46	38.57	44.50	42.92	54	-11.08	AV
H	15720.048	50.95	10.12	38.38	44.10	55.35	74	-18.65	PK
H	15720.048	44.01	10.12	38.38	44.10	48.41	54	-5.59	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac-HT40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5190 MHz)-Above 1G									
V	4434.143	63.01	5.94	35.40	44.00	60.35	68.2	-7.85	PK
V	4434.143	43.95	5.94	35.40	44.00	41.29	54	-12.71	AV
V	10380.153	60.38	8.46	39.75	44.50	64.09	68.2	-4.11	PK
V	10380.153	43.54	8.46	39.75	44.50	47.25	54	-6.75	AV
V	15570.026	60.64	10.12	38.80	44.10	65.46	74	-8.54	PK
V	15570.026	43.19	10.12	38.80	42.70	49.41	54	-4.59	AV
H	4434.117	63.48	5.94	35.18	44.00	60.60	74	-13.40	PK
H	4434.117	43.62	5.94	35.18	44.00	40.74	54	-13.26	AV
H	10380.004	54.76	8.46	38.71	44.50	57.43	68.2	-10.77	PK
H	10380.004	44.38	8.46	38.71	44.50	47.05	54	-6.95	AV
H	15570.023	54.29	10.12	38.38	44.10	58.69	74	-15.31	PK
H	15570.023	40.79	10.12	38.38	44.10	45.19	54	-8.81	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.039	62.85	6.48	36.35	44.05	61.63	68.2	-6.57	PK
V	4739.039	43.25	6.48	36.35	44.05	42.03	54	-11.97	AV
V	10460.197	62.21	8.47	37.88	44.51	64.05	68.2	-4.15	PK
V	10460.197	43.34	8.47	37.88	44.51	45.18	54	-8.82	AV
V	15690.180	62.66	10.12	38.80	44.10	67.48	74	-6.52	PK
V	15690.180	43.15	10.12	38.80	42.70	49.37	54	-4.63	AV
H	4739.030	63.75	6.48	36.37	44.05	62.55	68.2	-5.65	PK
H	4739.030	43.15	6.48	36.37	44.05	41.95	54	-12.05	AV
H	10460.179	51.36	8.47	38.64	44.50	53.97	68.2	-14.23	PK
H	10460.179	41.06	8.47	38.64	44.50	43.67	54	-10.33	AV
H	15690.136	52.76	10.12	38.38	44.10	57.16	74	-16.84	PK
H	15690.136	42.26	10.12	38.38	44.10	46.66	54	-7.34	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX(5.1G) - 802.11ac 80

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5210 MHz)-Above 1G									
V	4434.178	60.53	5.94	35.40	44.00	57.87	68.2	-10.33	PK
V	4434.178	43.83	5.94	35.40	44.00	41.17	54	-12.83	AV
V	10420.129	60.97	8.46	39.75	44.50	64.68	68.2	-3.52	PK
V	10420.129	43.44	8.46	39.75	44.50	47.15	54	-6.85	AV
V	15630.192	63.09	10.12	38.80	44.10	67.91	74	-6.09	PK
V	15630.192	43.21	10.12	38.80	42.70	49.43	54	-4.57	AV
H	4434.066	60.08	5.94	35.18	44.00	57.20	68.2	-11.00	PK
H	4434.066	43.53	5.94	35.18	44.00	40.65	54	-13.35	AV
H	10420.147	54.96	8.46	38.71	44.50	57.63	68.2	-10.57	PK
H	10420.147	40.24	8.46	38.71	44.50	42.91	54	-11.09	AV
H	15630.146	50.69	10.12	38.38	44.10	55.09	74	-18.91	PK
H	15630.146	43.39	10.12	38.38	44.10	47.79	54	-6.21	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) -- 802.11a

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.145	55.24	5.94	35.40	44.00	52.58	74	-21.42	PK
V	4679.145	43.66	5.94	35.40	44.00	41.00	54	-13.00	AV
V	11490.114	57.43	8.46	39.75	44.50	61.14	68.2	-7.06	PK
V	11490.114	43.28	8.46	39.75	44.50	46.99	54	-7.01	AV
V	17235.056	57.11	10.12	38.80	44.10	61.93	68.2	-6.27	PK
V	17235.056	43.87	10.12	38.80	42.70	50.09	54	-3.91	AV
H	4679.172	58.11	5.94	35.18	44.00	55.23	74	-18.77	PK
H	4679.172	43.83	5.94	35.18	44.00	40.95	54	-13.05	AV
H	11490.112	52.81	8.46	38.71	44.50	55.48	68.2	-12.72	PK
H	11490.112	42.52	8.46	38.71	44.50	45.19	54	-8.81	AV
H	17235.081	51.96	10.12	38.38	44.10	56.36	68.2	-11.84	PK
H	17235.081	43.51	10.12	38.38	44.10	47.91	54	-6.09	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.189	54.44	6.48	36.35	44.05	53.22	74	-20.78	PK
V	4592.189	43.95	6.48	36.35	44.05	42.73	54	-11.27	AV
V	11570.078	55.33	8.47	37.88	44.51	57.17	68.2	-11.03	PK
V	11570.078	43.36	8.47	37.88	44.51	45.20	54	-8.80	AV
V	17355.128	59.44	10.12	38.80	44.10	64.26	68.2	-3.94	PK
V	17355.128	39.41	10.12	38.80	42.70	45.63	54	-8.37	AV
H	4592.124	55.75	6.48	36.37	44.05	54.55	74	-19.45	PK
H	4592.124	43.95	6.48	36.37	44.05	42.75	54	-11.25	AV
H	11570.191	54.13	8.47	38.64	44.50	56.74	68.2	-11.46	PK
H	11570.191	40.91	8.47	38.64	44.50	43.52	54	-10.48	AV
H	17355.073	50.84	10.12	38.38	44.10	55.24	68.2	-12.96	PK
H	17355.073	43.63	10.12	38.38	44.10	48.03	54	-5.97	AV
High Channel (5825 MHz)-Above 1G									
V	6039.088	58.65	7.10	37.24	43.50	59.49	68.2	-8.71	PK
V	6039.088	43.66	7.10	37.24	43.50	44.50	54	-9.50	AV
V	11650.120	60.71	8.46	37.68	44.50	62.35	74	-11.65	PK
V	11650.120	43.68	8.46	37.68	44.50	45.32	54	-8.68	AV
V	17475.119	53.57	10.12	38.80	44.10	58.39	68.2	-9.81	PK
V	17475.119	43.34	10.12	38.80	42.70	49.56	54	-4.44	AV
H	6039.090	58.67	7.10	37.24	43.50	59.51	68.2	-8.69	PK
H	6039.090	43.84	7.10	37.24	43.50	44.68	54	-9.32	AV
H	11650.140	54.23	8.46	38.57	44.50	56.76	74	-17.24	PK
H	11650.140	41.90	8.46	38.57	44.50	44.43	54	-9.57	AV
H	17475.072	54.94	10.12	38.38	44.10	59.34	68.2	-8.86	PK
H	17475.072	44.44	10.12	38.38	44.10	48.84	54	-5.16	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) --802.11n-HT20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.131	59.37	5.94	35.40	44.00	56.71	74	-17.29	PK
V	4679.131	43.61	5.94	35.40	44.00	40.95	54	-13.05	AV
V	11490.169	53.93	8.46	39.75	44.50	57.64	68.2	-10.56	PK
V	11490.169	43.89	8.46	39.75	44.50	47.60	54	-6.40	AV
V	17235.090	57.33	10.12	38.80	44.10	62.15	68.2	-6.05	PK
V	17235.090	43.77	10.12	38.80	42.70	49.99	54	-4.01	AV
H	4679.132	58.47	5.94	35.18	44.00	55.59	74	-18.41	PK
H	4679.132	43.14	5.94	35.18	44.00	40.26	54	-13.74	AV
H	11490.167	51.46	8.46	38.71	44.50	54.13	68.2	-14.07	PK
H	11490.167	44.72	8.46	38.71	44.50	47.39	54	-6.61	AV
H	17235.176	52.05	10.12	38.38	44.10	56.45	68.2	-11.75	PK
H	17235.176	41.22	10.12	38.38	44.10	45.62	54	-8.38	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.032	59.08	6.48	36.35	44.05	57.86	74	-16.14	PK
V	4592.032	43.04	6.48	36.35	44.05	41.82	54	-12.18	AV
V	11570.124	58.63	8.47	37.88	44.51	60.47	68.2	-7.73	PK
V	11570.124	43.91	8.47	37.88	44.51	45.75	54	-8.25	AV
V	17355.183	58.03	10.12	38.80	44.10	62.85	68.2	-5.35	PK
V	17355.183	43.52	10.12	38.80	42.70	49.74	54	-4.26	AV
H	4592.160	60.58	6.48	36.37	44.05	59.38	74	-14.62	PK
H	4592.160	43.70	6.48	36.37	44.05	42.50	54	-11.50	AV
H	11570.185	51.98	8.47	38.64	44.50	54.59	68.2	-13.61	PK
H	11570.185	44.62	8.47	38.64	44.50	47.23	54	-6.77	AV
H	17355.017	54.32	10.12	38.38	44.10	58.72	68.2	-9.48	PK
H	17355.017	42.03	10.12	38.38	44.10	46.43	54	-7.57	AV
High Channel (5825 MHz)-Above 1G									
V	6039.166	55.41	7.10	37.24	43.50	56.25	68.2	-11.95	PK
V	6039.166	43.27	7.10	37.24	43.50	44.11	54	-9.89	AV
V	11650.098	56.40	8.46	37.68	44.50	58.04	74	-15.96	PK
V	11650.098	43.03	8.46	37.68	44.50	44.67	54	-9.33	AV
V	17475.001	57.63	10.12	38.80	44.10	62.45	68.2	-5.75	PK
V	17475.001	43.10	10.12	38.80	42.70	49.32	54	-4.68	AV
H	6039.131	56.72	7.10	37.24	43.50	57.56	68.2	-10.64	PK
H	6039.131	43.13	7.10	37.24	43.50	43.97	54	-10.03	AV
H	11650.131	53.78	8.46	38.57	44.50	56.31	74	-17.69	PK
H	11650.131	42.23	8.46	38.57	44.50	44.76	54	-9.24	AV
H	17475.004	50.44	10.12	38.38	44.10	54.84	68.2	-13.36	PK
H	17475.004	41.73	10.12	38.38	44.10	46.13	54	-7.87	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) -- 802.11n-HT40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.079	56.42	5.94	35.40	44.00	53.76	74	-20.24	PK
V	4679.079	43.79	5.94	35.40	44.00	41.13	54	-12.87	AV
V	11510.144	55.68	8.46	39.75	44.50	59.39	74	-14.61	PK
V	11510.144	43.43	8.46	39.75	44.50	47.14	54	-6.86	AV
V	17265.160	59.20	10.12	38.80	44.10	64.02	68.2	-4.18	PK
V	17265.160	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.017	60.44	5.94	35.18	44.00	57.56	74	-16.44	PK
H	4679.017	43.23	5.94	35.18	44.00	40.35	54	-13.65	AV
H	11510.164	51.54	8.46	38.71	44.50	54.21	74	-19.79	PK
H	11510.164	41.22	8.46	38.71	44.50	43.89	54	-10.11	AV
H	17265.026	54.39	10.12	38.38	44.10	58.79	68.2	-9.41	PK
H	17265.026	44.80	10.12	38.38	44.10	49.20	54	-4.80	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.151	58.32	6.48	36.35	44.05	57.10	68.2	-11.10	PK
V	6039.151	43.08	6.48	36.35	44.05	41.86	54	-12.14	AV
V	11590.157	59.63	8.47	37.88	44.51	61.47	74	-12.53	PK
V	11590.157	43.85	8.47	37.88	44.51	45.69	54	-8.31	AV
V	17385.006	55.36	10.12	38.80	44.10	60.18	68.2	-8.02	PK
V	17385.006	41.42	10.12	38.80	42.70	47.64	54	-6.36	AV
H	6039.081	59.63	6.48	36.37	44.05	58.43	68.2	-9.77	PK
H	6039.081	43.38	6.48	36.37	44.05	42.18	54	-11.82	AV
H	11590.142	54.85	8.47	38.64	44.50	57.46	74	-16.54	PK
H	11590.142	44.65	8.47	38.64	44.50	47.26	54	-6.74	AV
H	17385.166	50.53	10.12	38.38	44.10	54.93	68.2	-13.27	PK
H	17385.166	42.64	10.12	38.38	44.10	47.04	54	-6.96	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode:	TX (5.8G) --802.11ac-HT20

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5745 MHz)-Above 1G									
V	4679.078	58.93	5.94	35.40	44.00	56.27	74	-17.73	PK
V	4679.078	43.78	5.94	35.40	44.00	41.12	54	-12.88	AV
V	11490.149	56.57	8.46	39.75	44.50	60.28	68.2	-7.92	PK
V	11490.149	43.85	8.46	39.75	44.50	47.56	54	-6.44	AV
V	17235.033	61.24	10.12	38.80	44.10	66.06	68.2	-2.14	PK
V	17235.033	43.20	10.12	38.80	42.70	49.42	54	-4.58	AV
H	4679.051	60.55	5.94	35.18	44.00	57.67	74	-16.33	PK
H	4679.051	43.39	5.94	35.18	44.00	40.51	54	-13.49	AV
H	11490.062	50.38	8.46	38.71	44.50	53.05	68.2	-15.15	PK
H	11490.062	43.47	8.46	38.71	44.50	46.14	54	-7.86	AV
H	17235.045	54.10	10.12	38.38	44.10	58.50	68.2	-9.70	PK
H	17235.045	42.35	10.12	38.38	44.10	46.75	54	-7.25	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.082	62.13	6.48	36.35	44.05	60.91	74	-13.09	PK
V	4592.082	43.68	6.48	36.35	44.05	42.46	54	-11.54	AV
V	11570.102	54.32	8.47	37.88	44.51	56.16	68.2	-12.04	PK
V	11570.102	43.14	8.47	37.88	44.51	44.98	54	-9.02	AV
V	17355.133	60.90	10.12	38.80	44.10	65.72	68.2	-2.48	PK
V	17355.133	43.33	10.12	38.80	42.70	49.55	54	-4.45	AV
H	4592.021	59.41	6.48	36.37	44.05	58.21	74	-15.79	PK
H	4592.021	43.31	6.48	36.37	44.05	42.11	54	-11.89	AV
H	11570.089	54.59	8.47	38.64	44.50	57.20	68.2	-11.00	PK
H	11570.089	43.36	8.47	38.64	44.50	45.97	54	-8.03	AV
H	17355.164	52.16	10.12	38.38	44.10	56.56	68.2	-11.64	PK
H	17355.164	41.30	10.12	38.38	44.10	45.70	54	-8.30	AV
High Channel (5825 MHz)-Above 1G									
V	6039.061	56.99	7.10	37.24	43.50	57.83	68.2	-10.37	PK
V	6039.061	43.58	7.10	37.24	43.50	44.42	54	-9.58	AV
V	11650.171	56.42	8.46	37.68	44.50	58.06	74	-15.94	PK
V	11650.171	43.17	8.46	37.68	44.50	44.81	54	-9.19	AV
V	17475.029	55.11	10.12	38.80	44.10	59.93	68.2	-8.27	PK
V	17475.029	43.91	10.12	38.80	42.70	50.13	54	-3.87	AV
H	6039.193	59.31	7.10	37.24	43.50	60.15	68.2	-8.05	PK
H	6039.193	43.12	7.10	37.24	43.50	43.96	54	-10.04	AV
H	11650.087	54.86	8.46	38.57	44.50	57.39	74	-16.61	PK
H	11650.087	42.70	8.46	38.57	44.50	45.23	54	-8.77	AV
H	17475.183	53.21	10.12	38.38	44.10	57.61	68.2	-10.59	PK
H	17475.183	43.66	10.12	38.38	44.10	48.06	54	-5.94	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Test Mode :	TX (5.8G) -- 802.11ac-HT40

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5755 MHz)-Above 1G									
V	4679.071	56.70	5.94	35.40	44.00	54.04	74	-19.96	PK
V	4679.071	43.41	5.94	35.40	44.00	40.75	54	-13.25	AV
V	11510.149	55.60	8.46	39.75	44.50	59.31	74	-14.69	PK
V	11510.149	43.79	8.46	39.75	44.50	47.50	54	-6.50	AV
V	17265.006	59.57	10.12	38.80	44.10	64.39	68.2	-3.81	PK
V	17265.006	2.00	10.12	38.80	42.70	8.22	54	-45.78	AV
H	4679.151	58.27	5.94	35.18	44.00	55.39	74	-18.61	PK
H	4679.151	43.29	5.94	35.18	44.00	40.41	54	-13.59	AV
H	11510.153	54.22	8.46	38.71	44.50	56.89	74	-17.11	PK
H	11510.153	41.16	8.46	38.71	44.50	43.83	54	-10.17	AV
H	17265.126	50.88	10.12	38.38	44.10	55.28	68.2	-12.92	PK
H	17265.126	42.20	10.12	38.38	44.10	46.60	54	-7.40	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.054	59.03	6.48	36.35	44.05	57.81	68.2	-10.39	PK
V	6039.054	43.67	6.48	36.35	44.05	42.45	54	-11.55	AV
V	11590.142	56.01	8.47	37.88	44.51	57.85	74	-16.15	PK
V	11590.142	43.55	8.47	37.88	44.51	45.39	54	-8.61	AV
V	17385.160	55.50	10.12	38.80	44.10	60.32	68.2	-7.88	PK
V	17385.160	41.11	10.12	38.80	42.70	47.33	54	-6.67	AV
H	6039.114	57.83	6.48	36.37	44.05	56.63	68.2	-11.57	PK
H	6039.114	43.28	6.48	36.37	44.05	42.08	54	-11.92	AV
H	11590.148	53.26	8.47	38.64	44.50	55.87	74	-18.13	PK
H	11590.148	43.44	8.47	38.64	44.50	46.05	54	-7.95	AV
H	17385.018	52.63	10.12	38.38	44.10	57.03	68.2	-11.17	PK
H	17385.018	40.16	10.12	38.38	44.10	44.56	54	-9.44	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

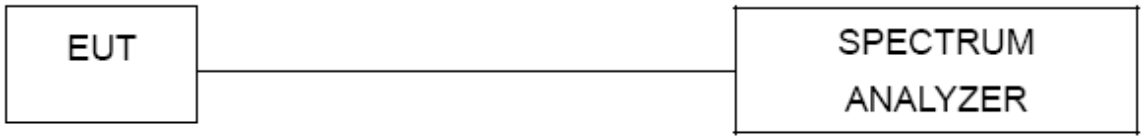
Test Mode :	TX (5.8G) -- 802.11ac 80

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Cable loss (dB)	Antenna Factor dB/m	Preamp Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detector Type
Low Channel (5775 MHz)-Above 1G									
V	4679.186	56.15	5.94	35.40	44.00	53.49	74	-20.51	PK
V	4679.186	43.14	5.94	35.40	44.00	40.48	54	-13.52	AV
V	11550.020	57.27	8.46	39.75	44.50	60.98	74	-13.02	PK
V	11550.020	42.92	8.46	39.75	44.50	46.63	54	-7.37	AV
V	17325.114	59.56	10.12	38.80	44.10	64.38	68.2	-3.82	PK
V	17325.114	41.37	10.12	38.80	42.70	47.59	54	-6.41	AV
H	4679.175	55.53	5.94	35.18	44.00	52.65	74	-21.35	PK
H	4679.175	43.50	5.94	35.18	44.00	40.62	54	-13.38	AV
H	11550.163	51.81	8.46	38.71	44.50	54.48	74	-19.52	PK
H	11550.163	40.40	8.46	38.71	44.50	43.07	54	-10.93	AV
H	17325.168	53.68	10.12	38.38	44.10	58.08	68.2	-10.12	PK
H	17325.168	44.92	10.12	38.38	44.10	49.32	54	-4.68	AV

Note: PK value is lower than the Average value limit, So average didn't record.
The 26.5-40G amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

8. Power Spectral Density Test

8.1 Block Diagram Of Test Setup



8.2 Limit

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3)For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.3 Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW ≥ 1/T, where T is defined in section II.B.I.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

8.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

8.5 Test Result

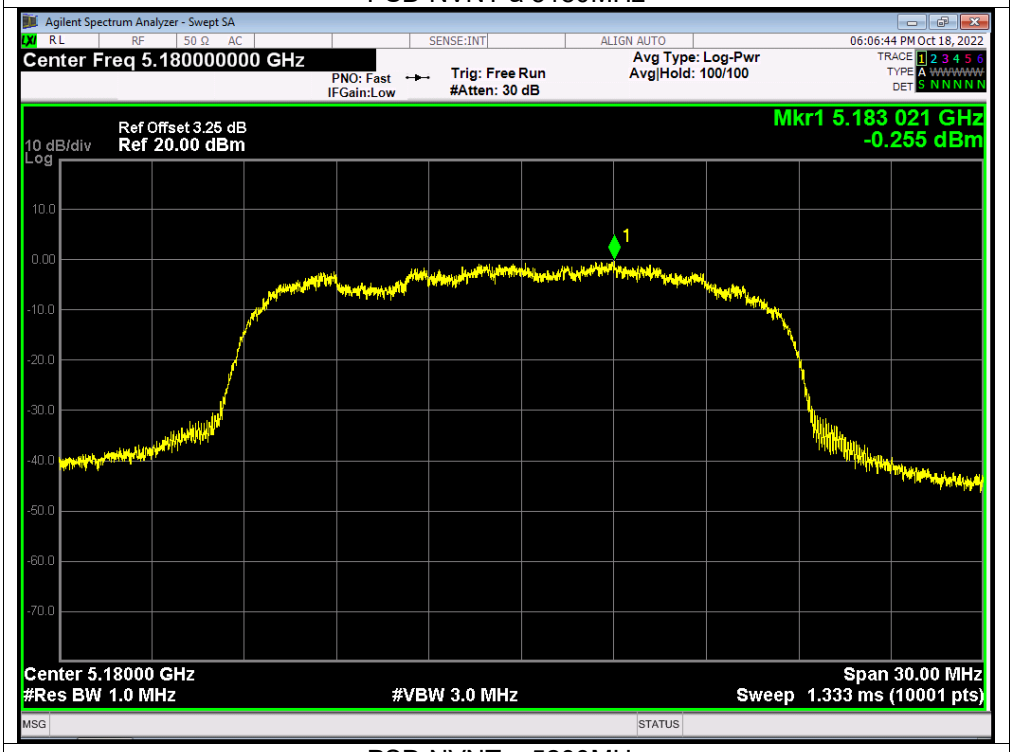
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 5V
Test Mode ：	(5180-5240MHz); (5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	-0.26	11	Pass
NVNT	a	5200	0.37	11	Pass
NVNT	a	5240	-1.57	11	Pass
NVNT	n20	5180	-2.51	11	Pass
NVNT	n20	5200	-1.99	11	Pass
NVNT	n20	5240	-1.45	11	Pass
NVNT	n40	5190	-8.34	11	Pass
NVNT	n40	5230	-6.84	11	Pass
NVNT	ac20	5180	-3.35	11	Pass
NVNT	ac20	5200	-1.38	11	Pass
NVNT	ac20	5240	-1.42	11	Pass
NVNT	ac40	5190	-8.69	11	Pass
NVNT	ac40	5230	-9.37	11	Pass
NVNT	ac80	5210	-16	11	Pass

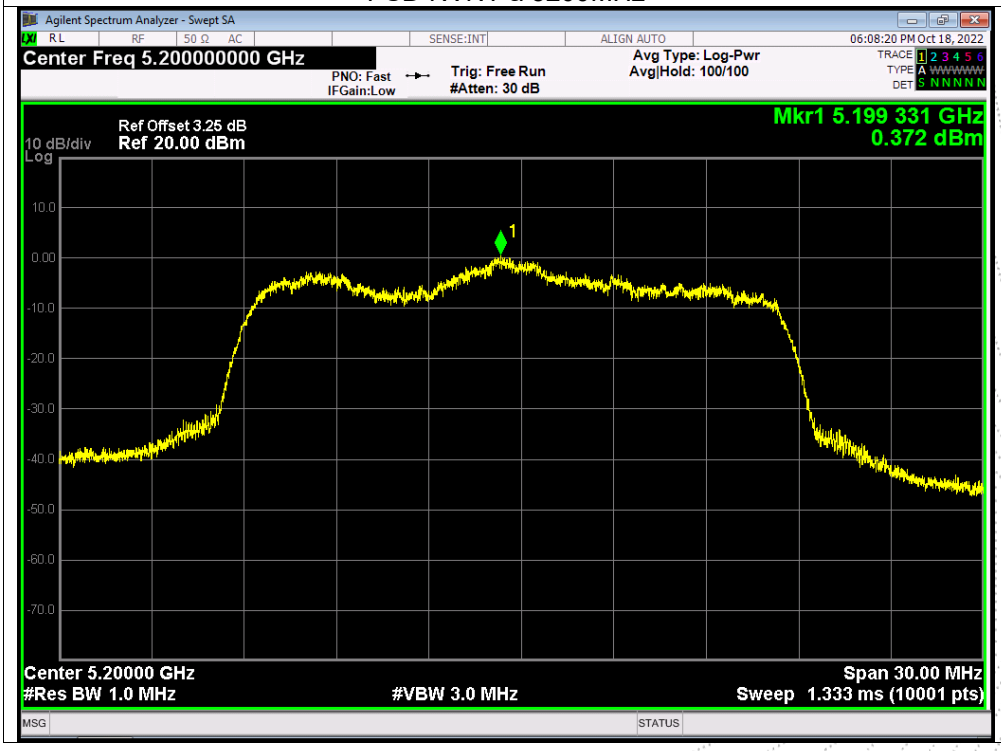
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-3.92	30	Pass
NVNT	a	5785	-4.54	30	Pass
NVNT	a	5825	-3.83	30	Pass
NVNT	n20	5745	-4.1	30	Pass
NVNT	n20	5785	-4.26	30	Pass
NVNT	n20	5825	-5.51	30	Pass
NVNT	n40	5755	-11.98	30	Pass
NVNT	n40	5795	-12.83	30	Pass
NVNT	ac20	5745	-5.8	30	Pass
NVNT	ac20	5785	-6.21	30	Pass
NVNT	ac20	5825	-6.48	30	Pass
NVNT	ac40	5755	-12.37	30	Pass
NVNT	ac40	5795	-13.17	30	Pass
NVNT	ac80	5775	-15.52	30	Pass

Test Graphs

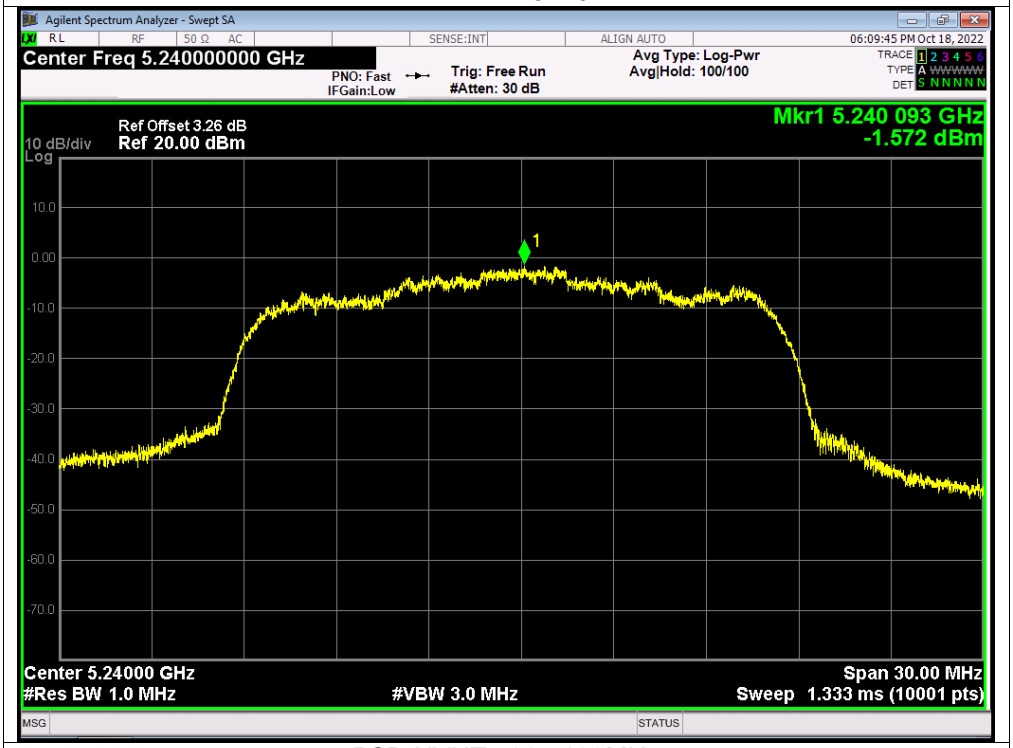
PSD NVNT a 5180MHz



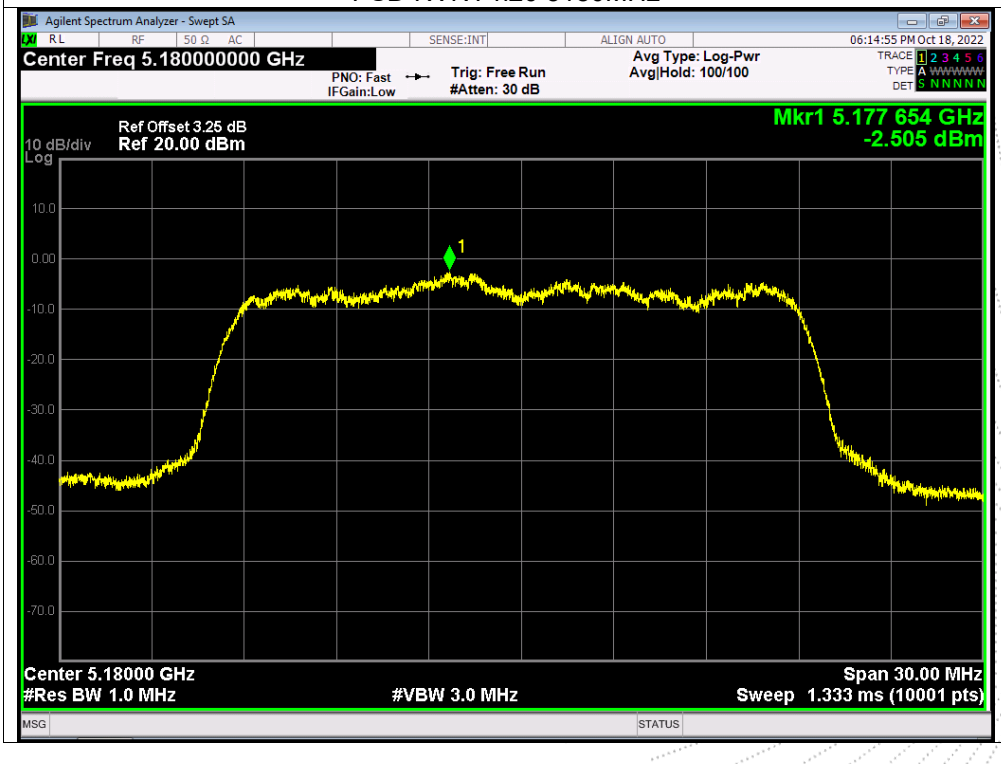
PSD NVNT a 5200MHz



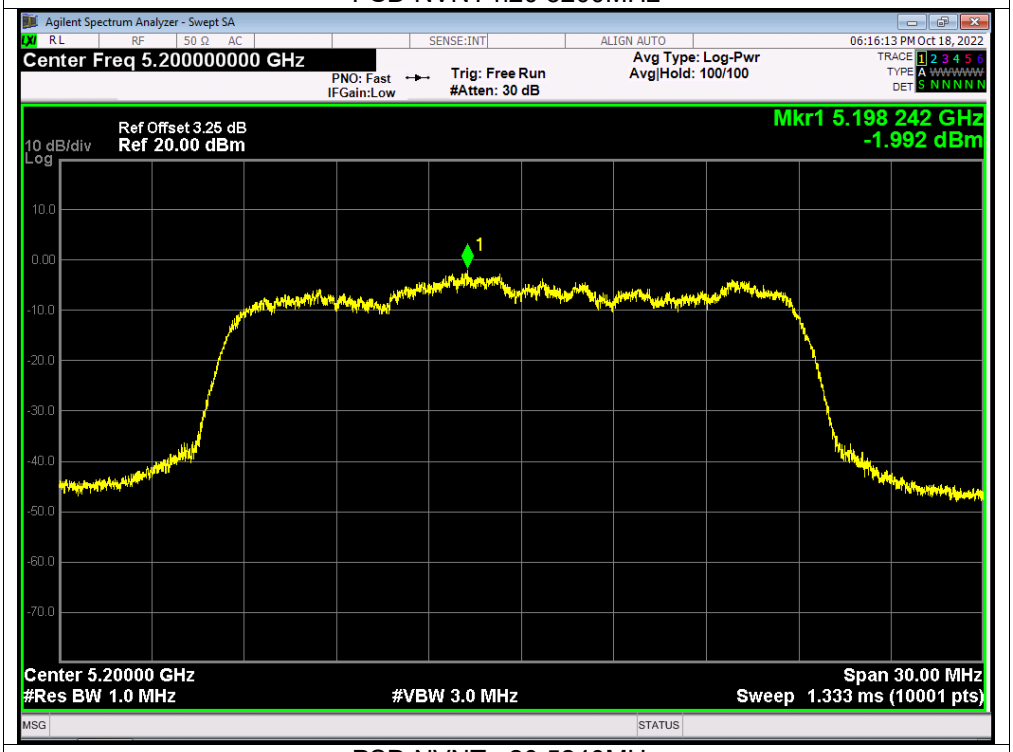
PSD NVNT a 5240MHz



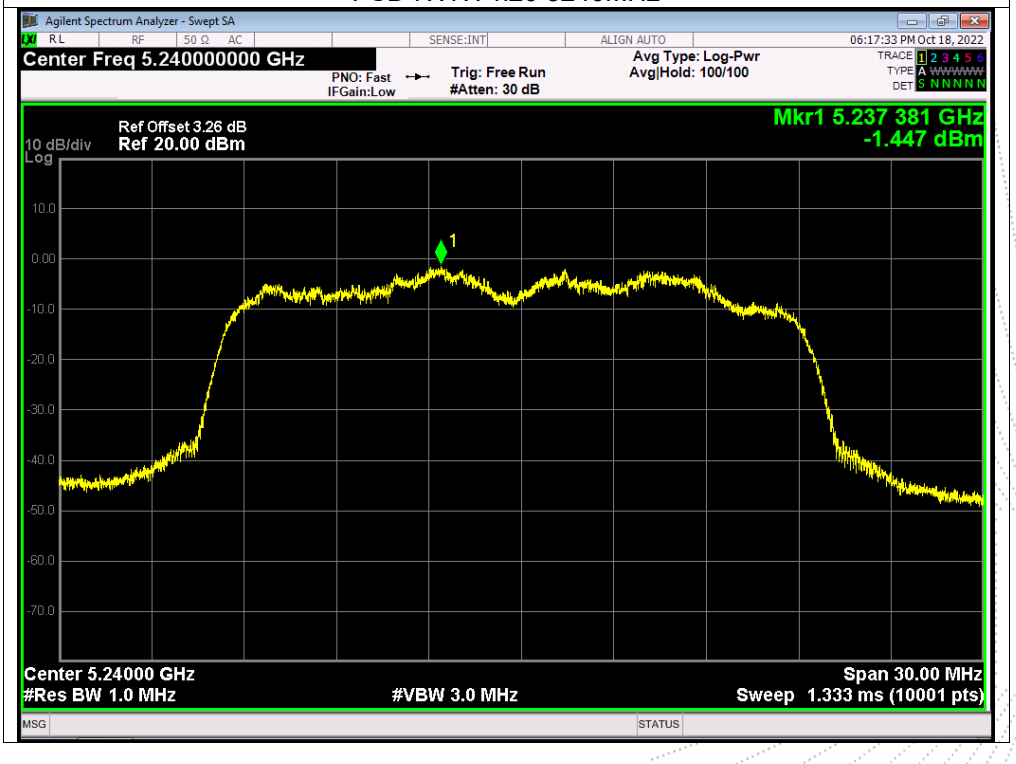
PSD NVNT n20 5180MHz



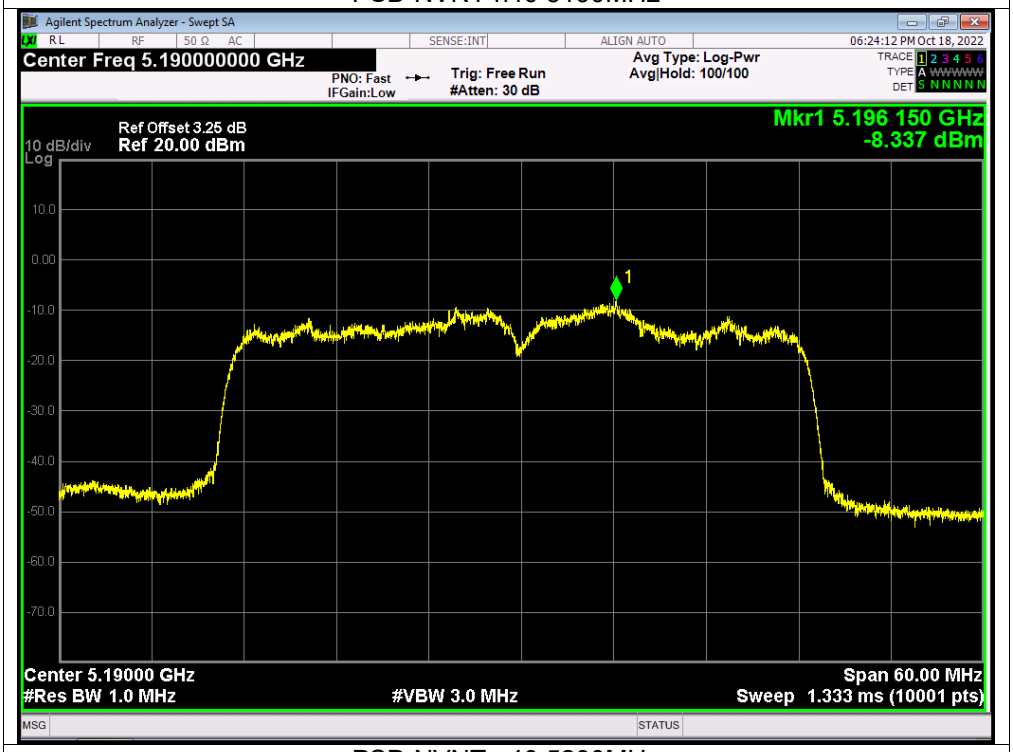
PSD NVNT n20 5200MHz



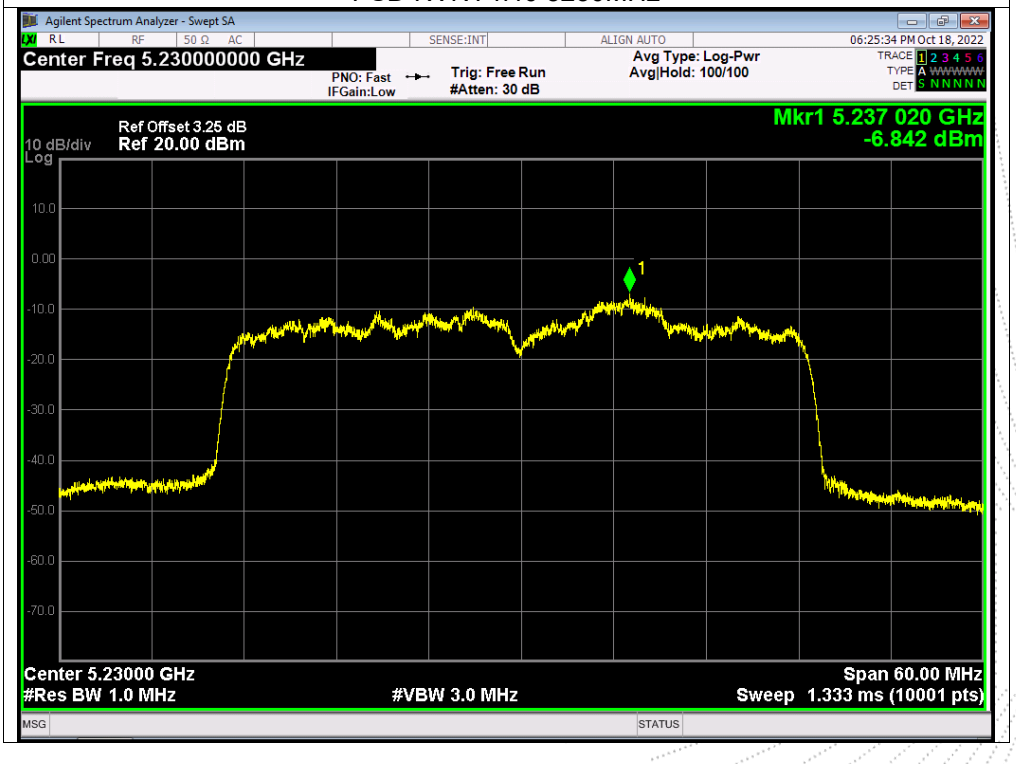
PSD NVNT n20 5240MHz



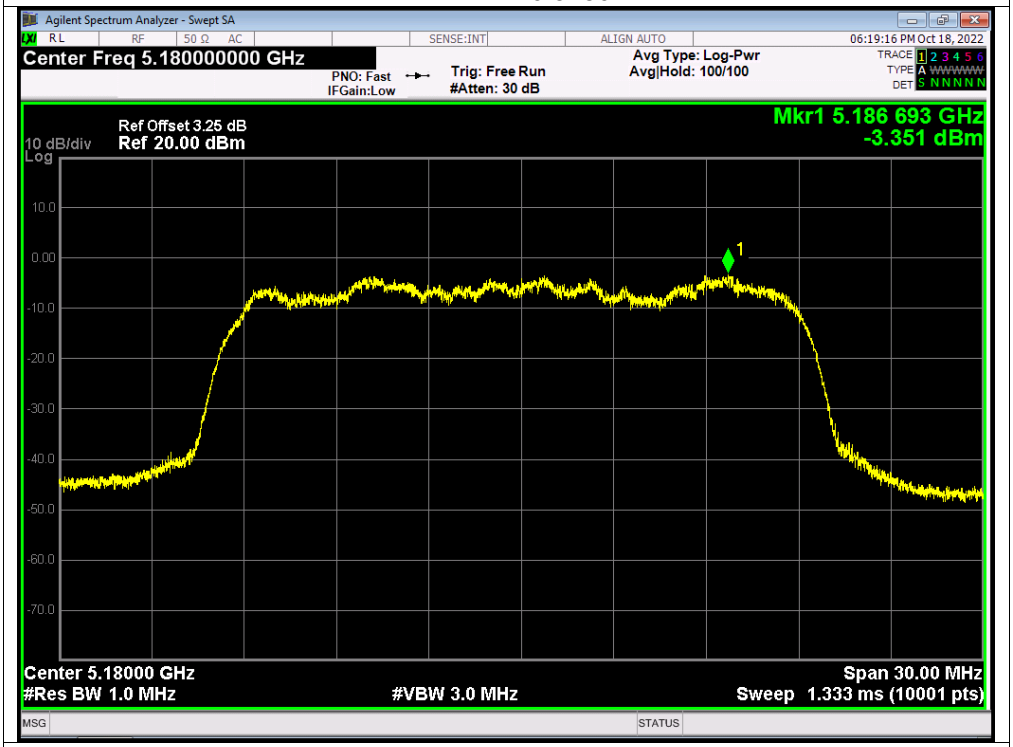
PSD NVNT n40 5190MHz



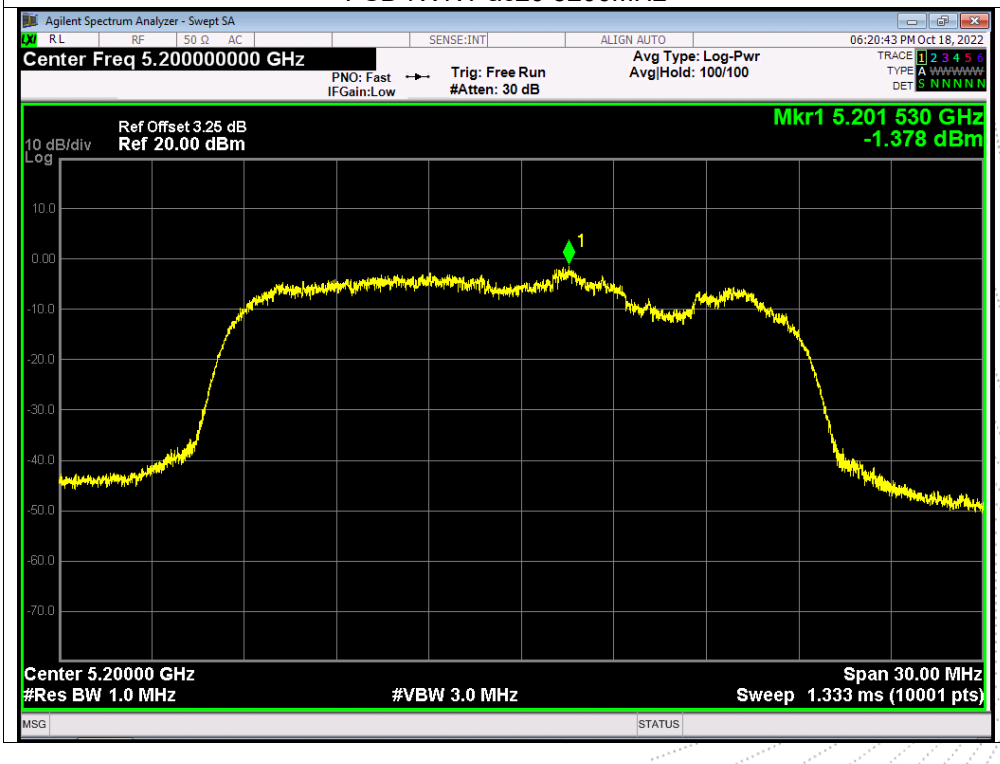
PSD NVNT n40 5230MHz



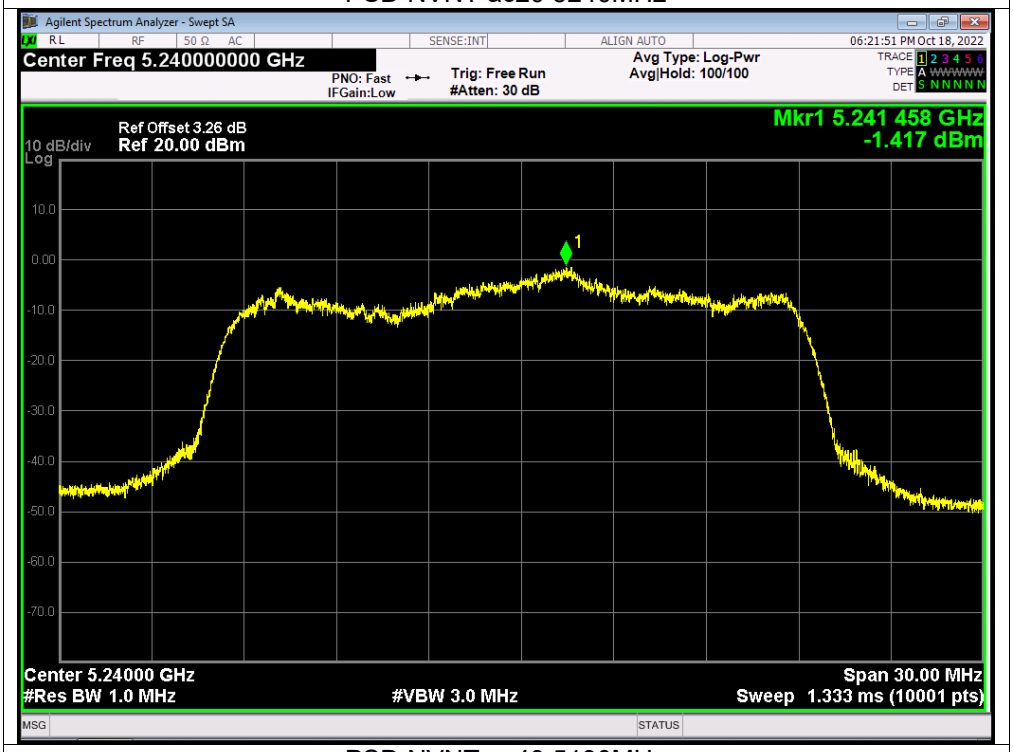
PSD NVNT ac20 5180MHz



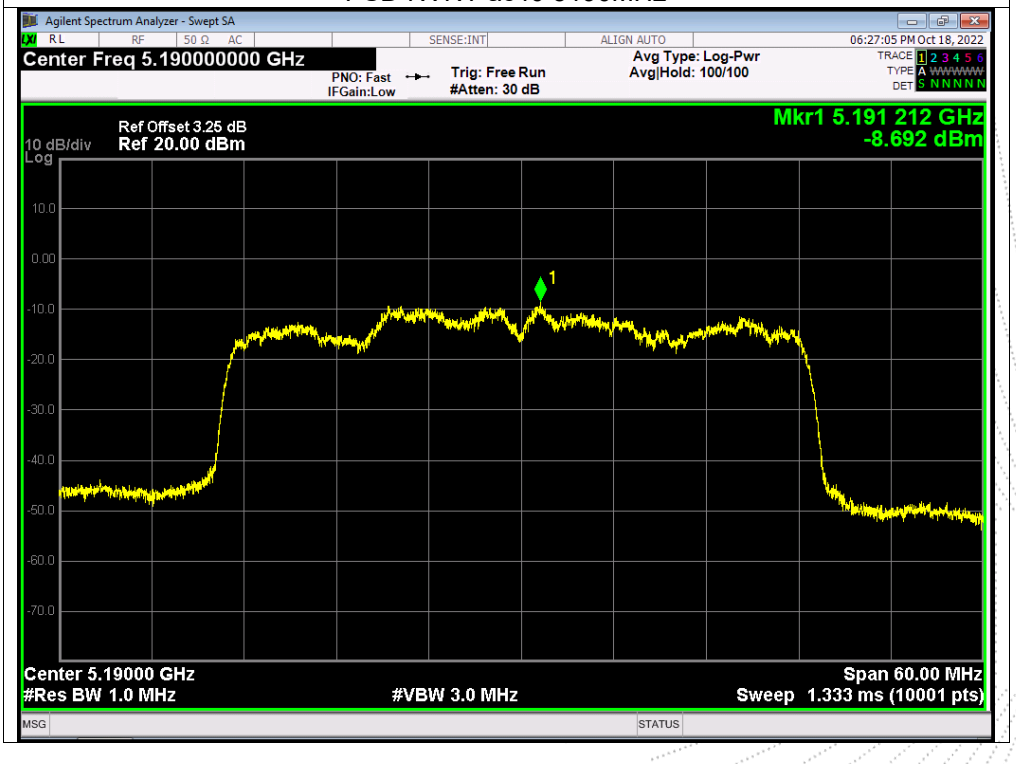
PSD NVNT ac20 5200MHz



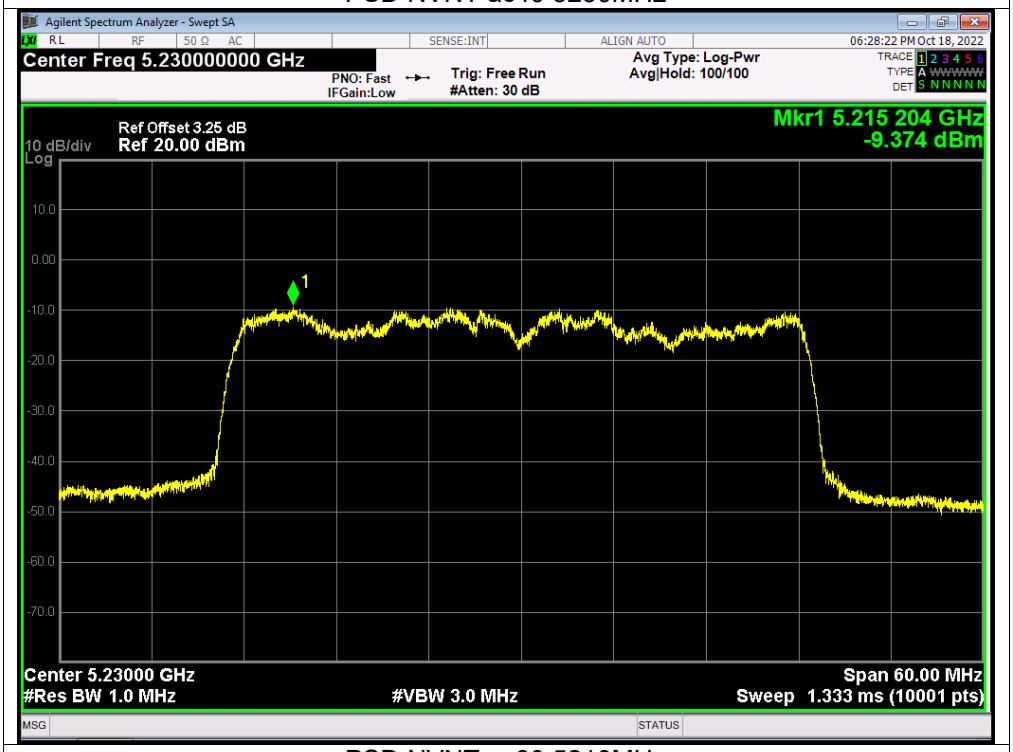
PSD NVNT ac20 5240MHz



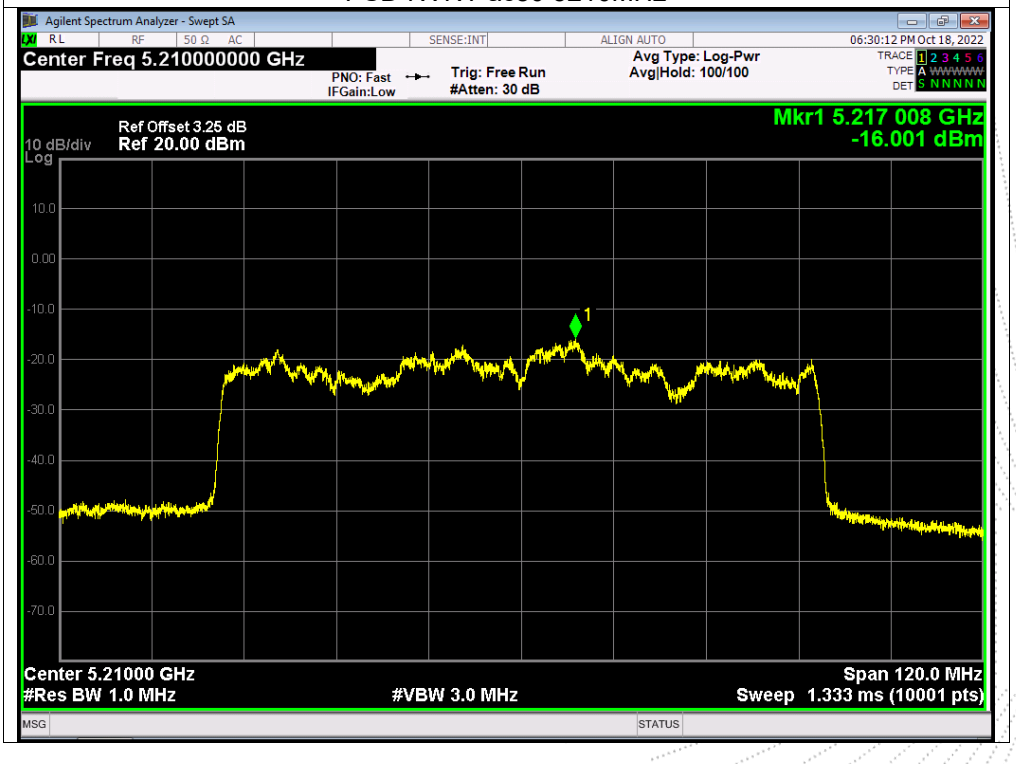
PSD NVNT ac40 5190MHz



PSD NVNT ac40 5230MHz

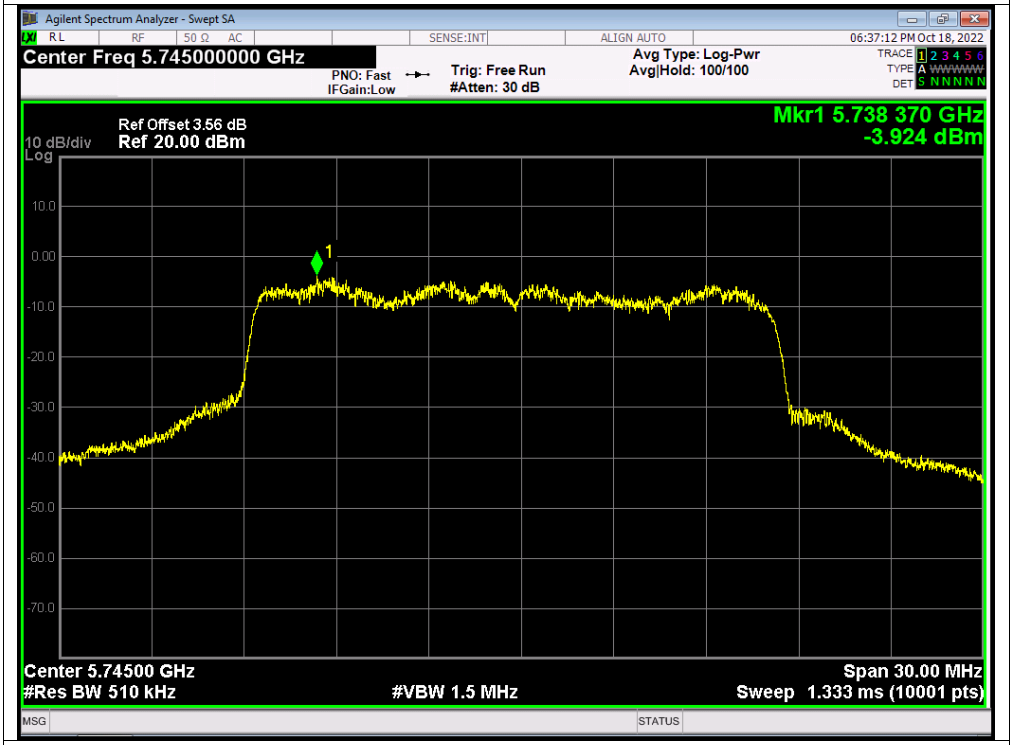


PSD NVNT ac80 5210MHz

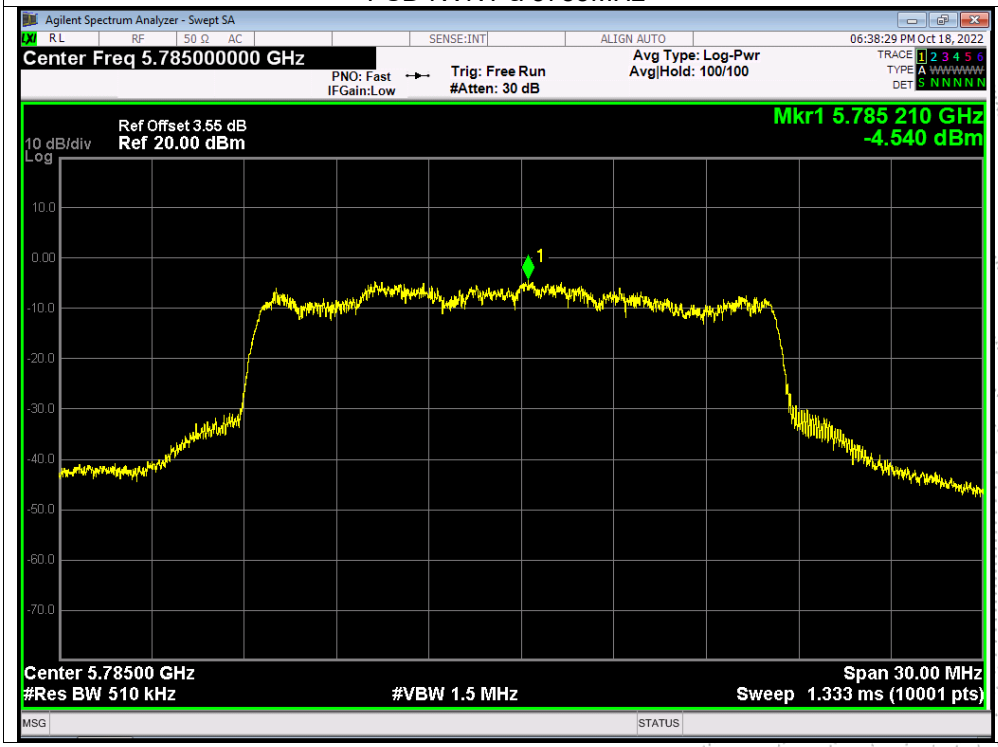


Test Graphs

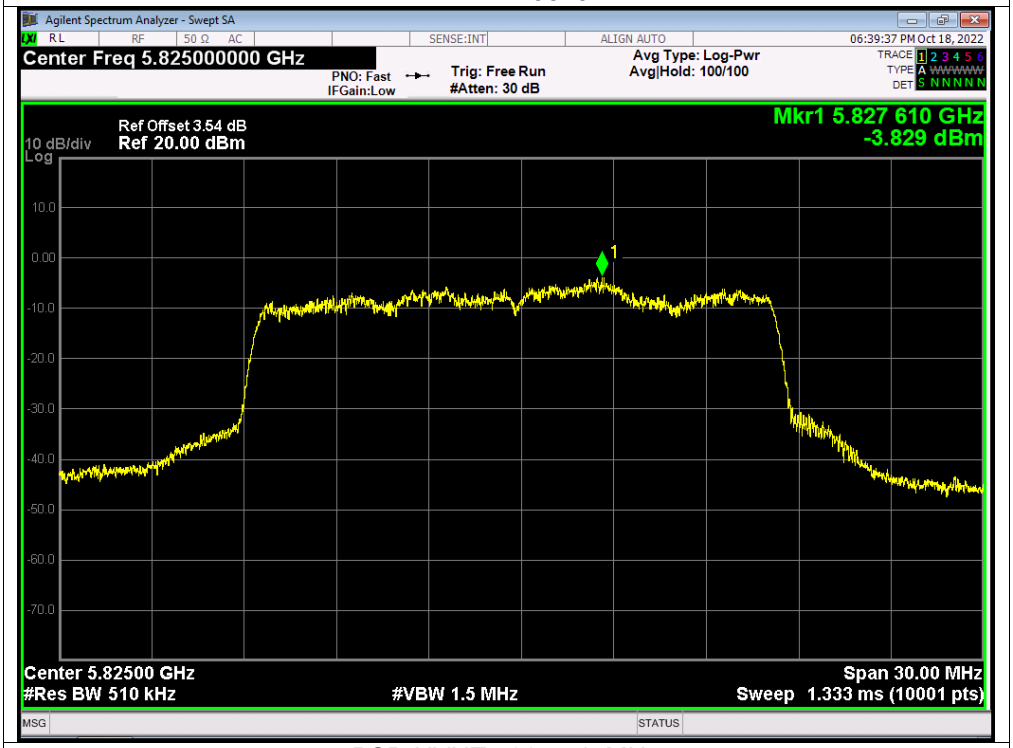
PSD NVNT a 5745MHz



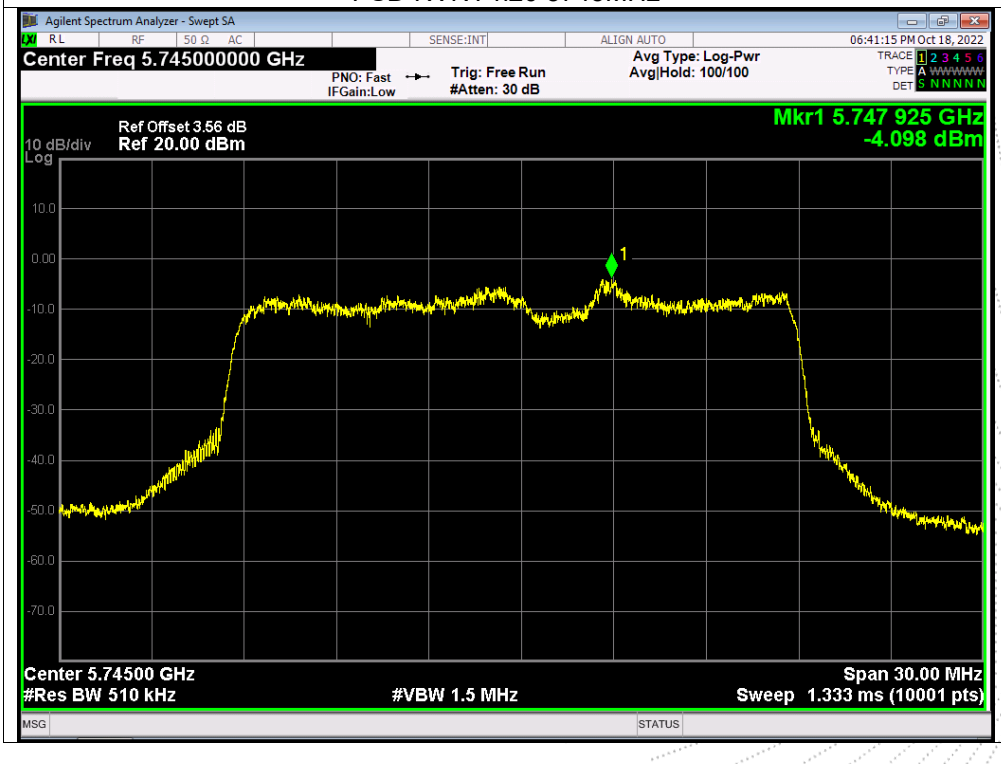
PSD NVNT a 5785MHz



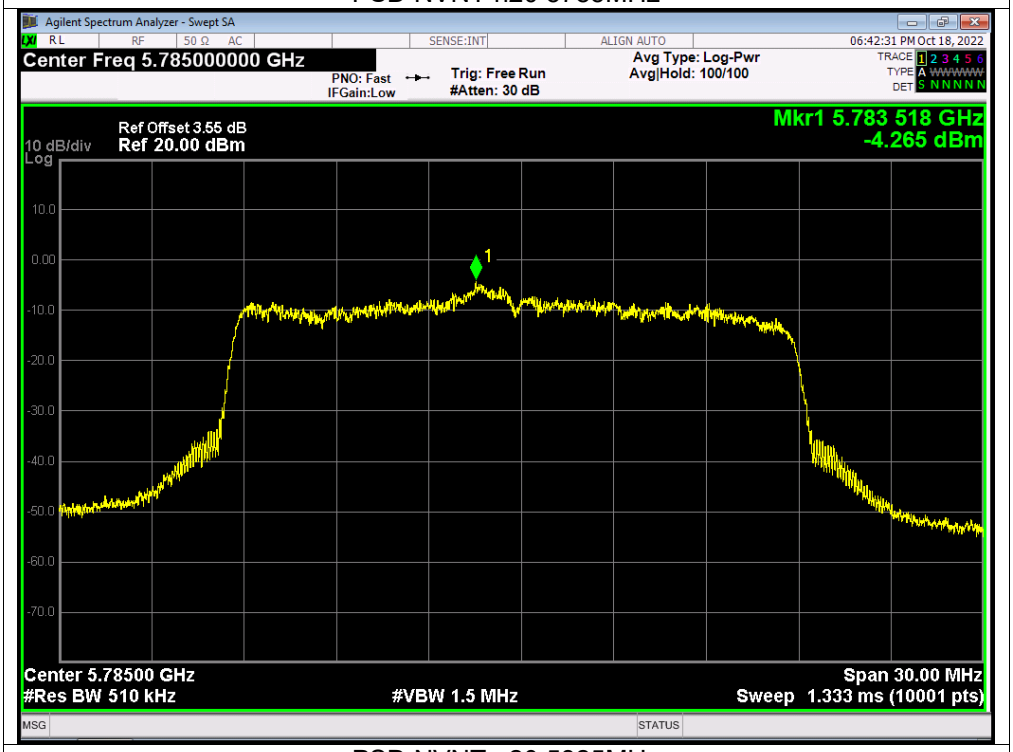
PSD NVNT a 5825MHz



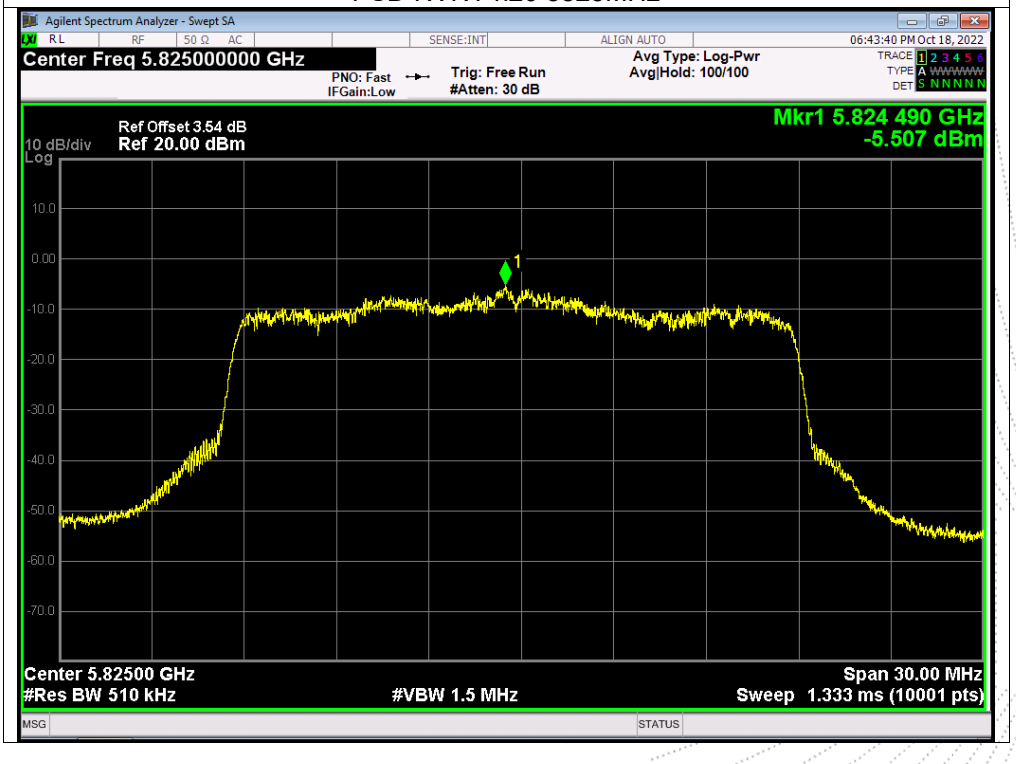
PSD NVNT n20 5745MHz



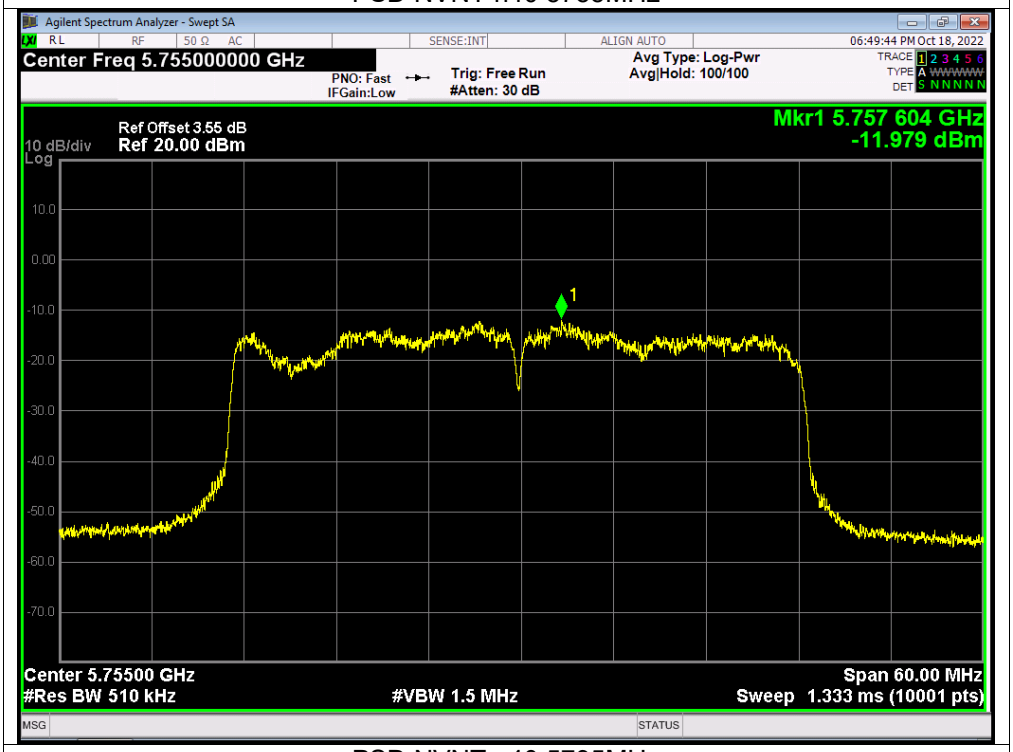
PSD NVNT n20 5785MHz



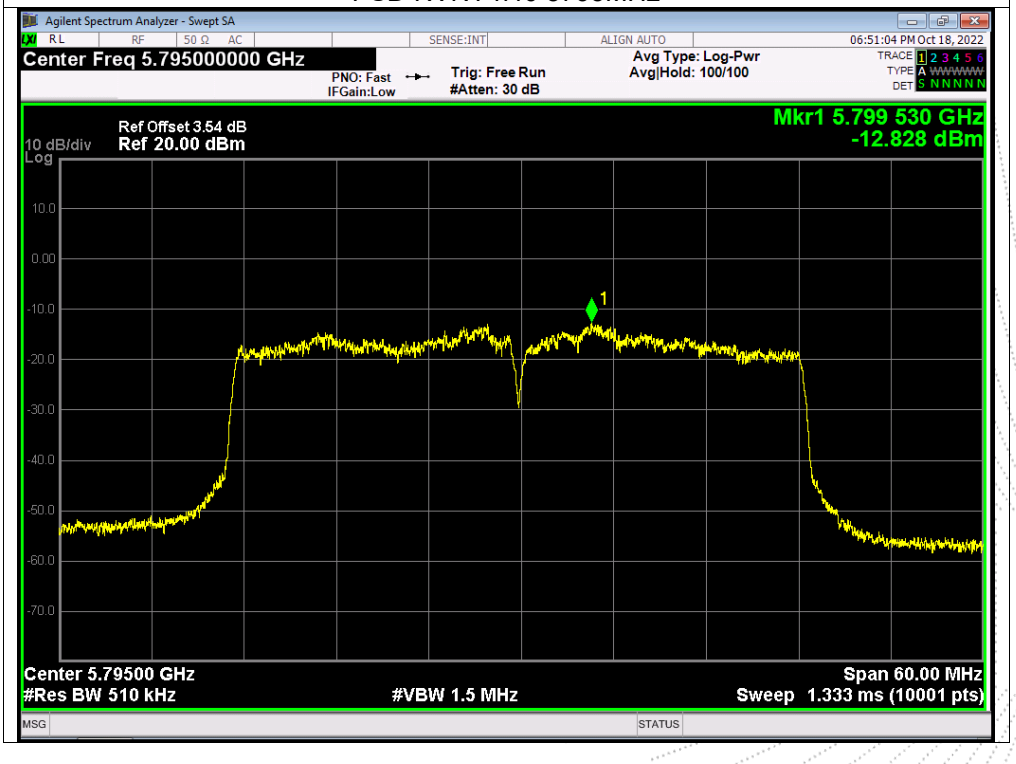
PSD NVNT n20 5825MHz



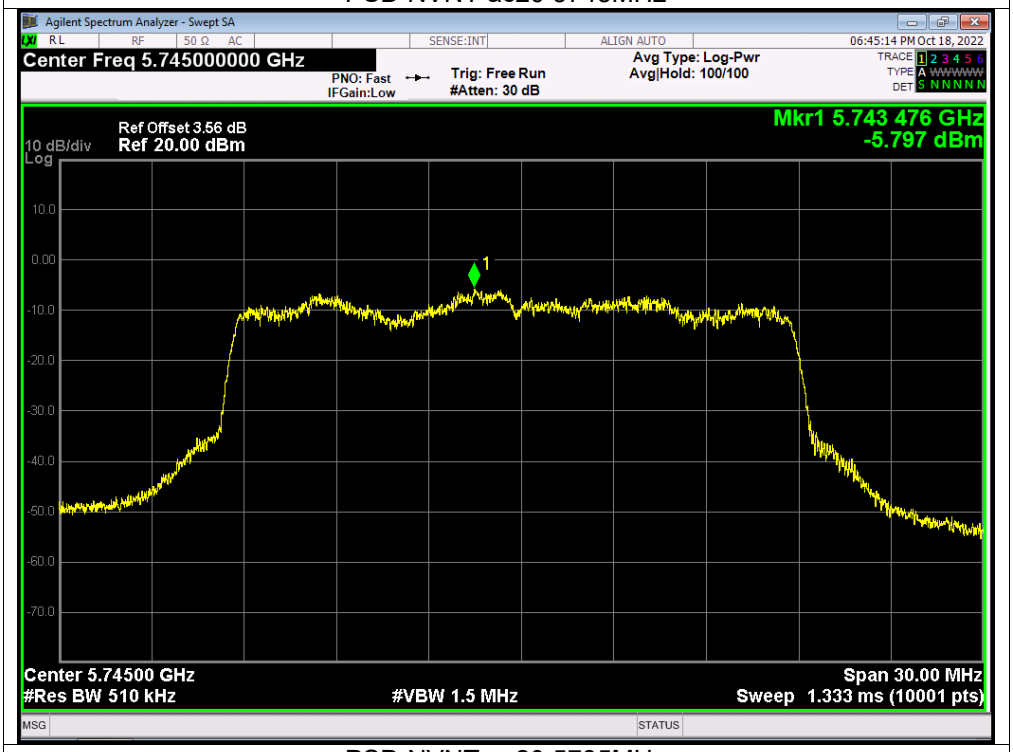
PSD NVNT n40 5755MHz



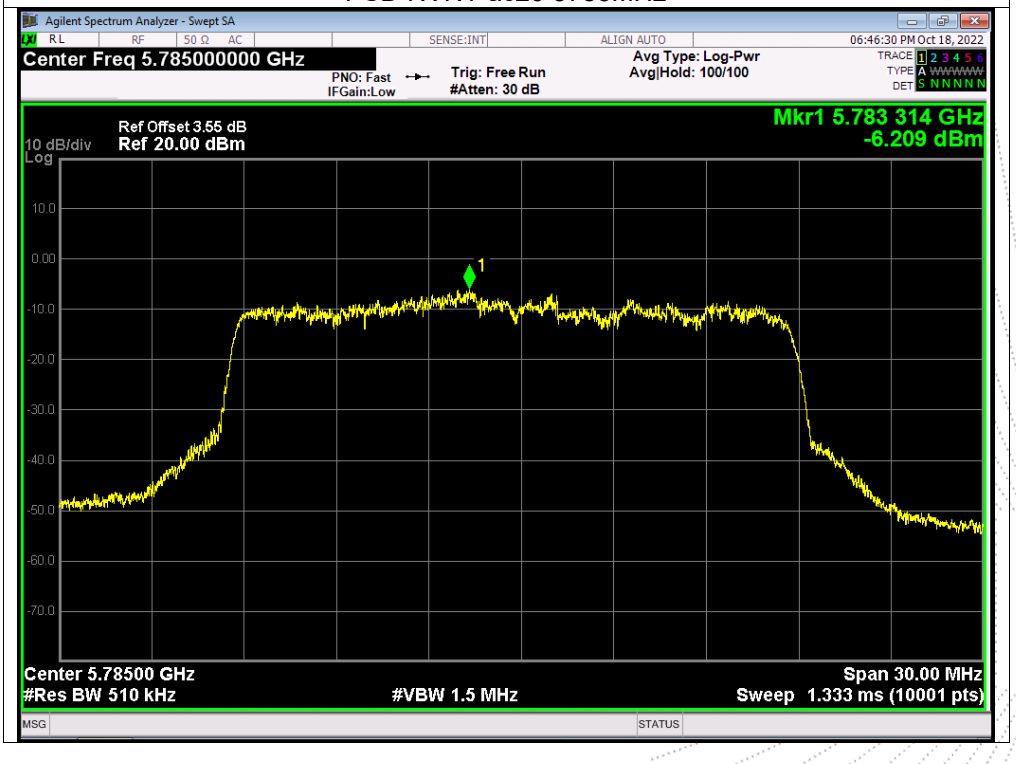
PSD NVNT n40 5795MHz



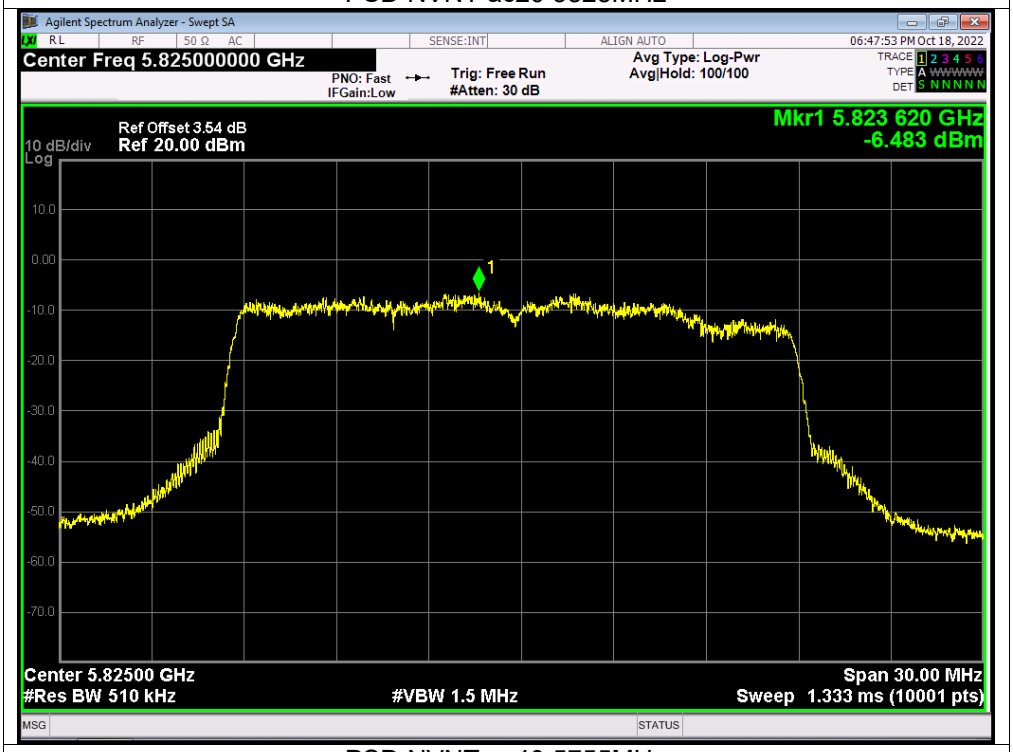
PSD NVNT ac20 5745MHz



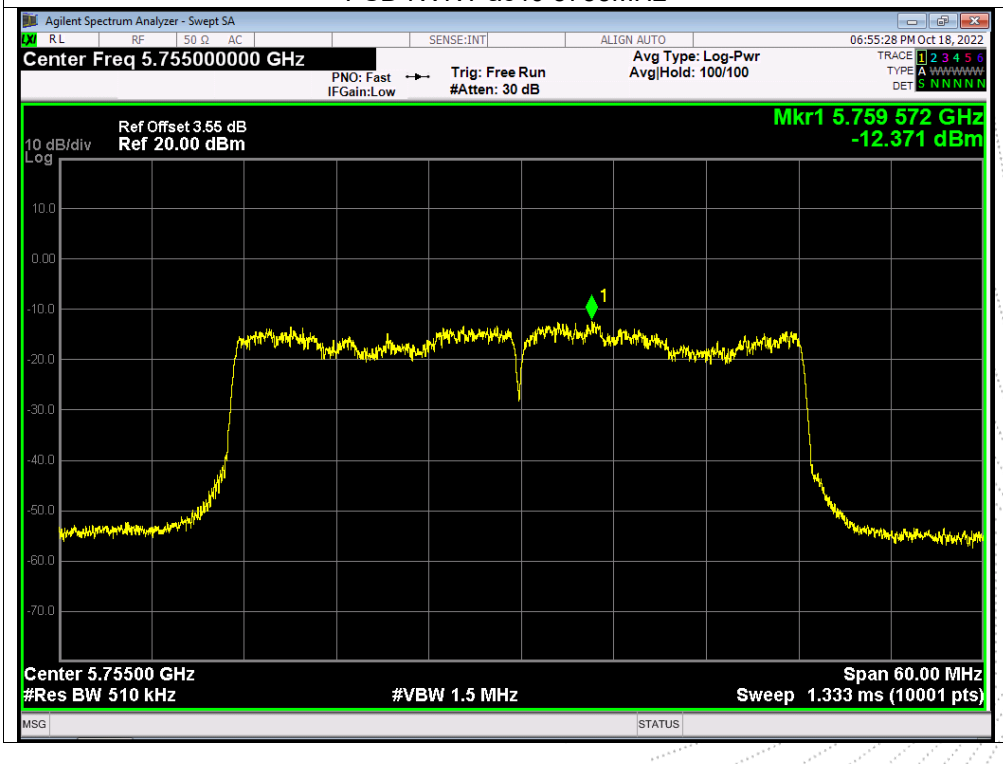
PSD NVNT ac20 5785MHz



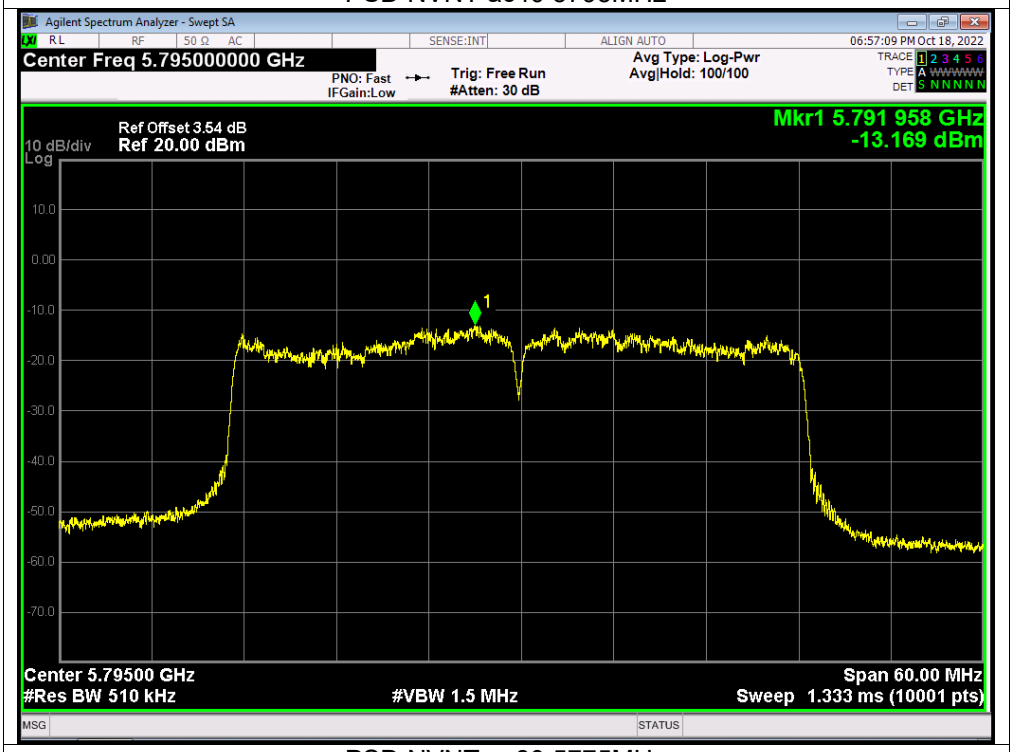
PSD NVNT ac20 5825MHz



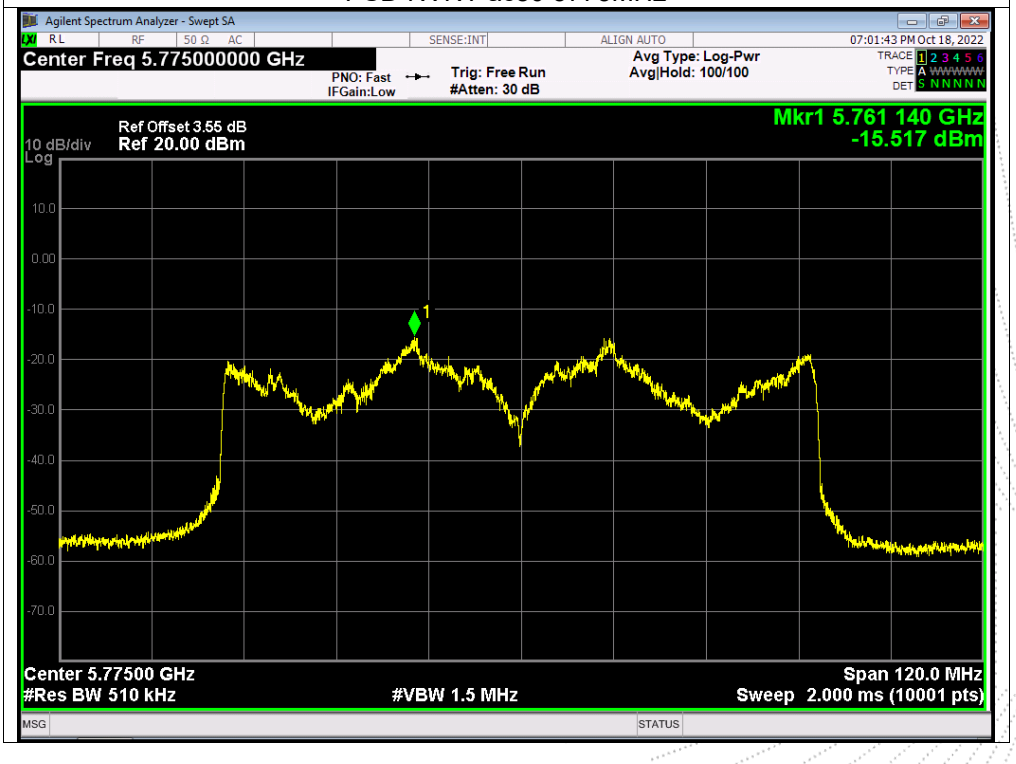
PSD NVNT ac40 5755MHz



PSD NVNT ac40 5795MHz

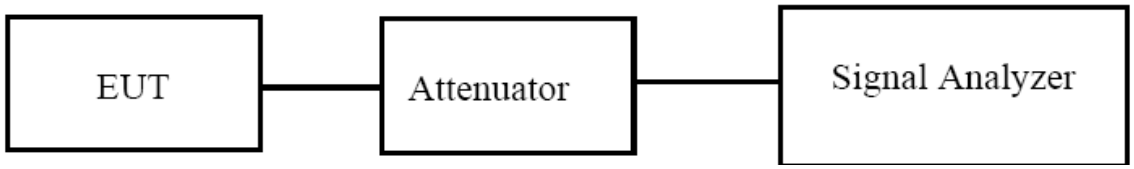


PSD NVNT ac80 5775MHz



9. 26dB & 6dB & 99% Emission Bandwidth

9.1 Block Diagram Of Test Setup



9.2 Limit

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power
is integrated over the full reference bandwidth.
(6dB bandwidth)>500kHz

9.3 Test Procedure

a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
The following procedure shall be used for measuring (99 %) power bandwidth:
1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

6dB
1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.

7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

9.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

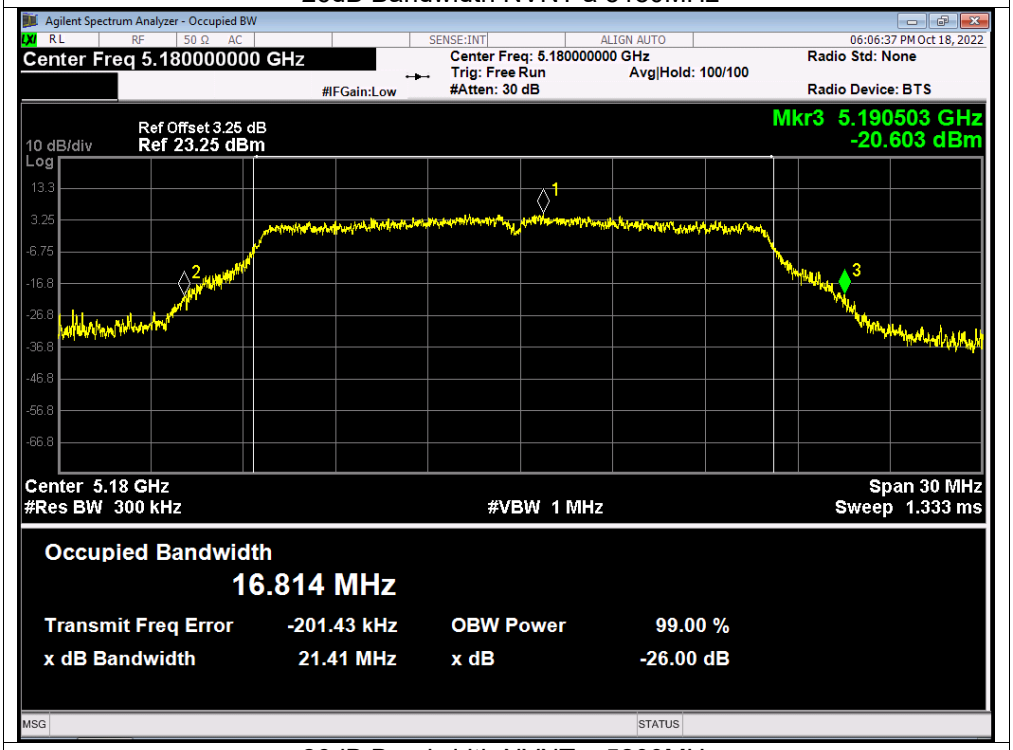
9.5 Test Result

Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 5V
Test Mode ：	TX Frequency U-NII-1 (5180-5240MHz)		

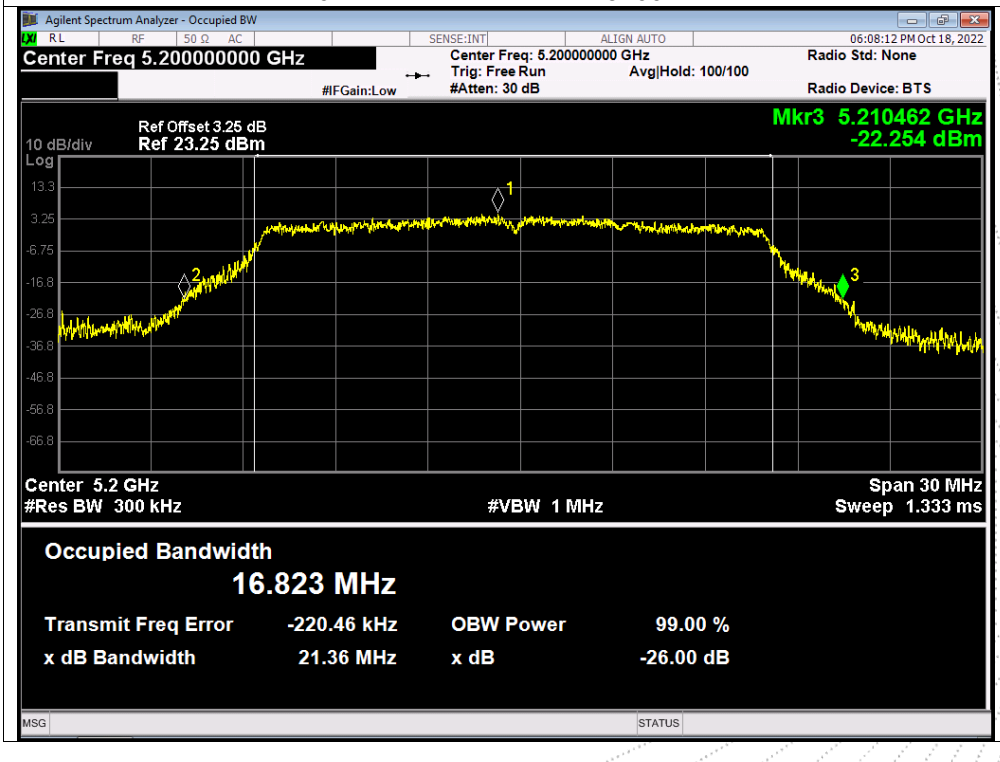
Condition	Mode	**Frequency (MHz)**	**99% bandwidth (MHz)**	**26dB bandwidth (MHz)**	**Limit -26 dB Bandwidth**	**Result**
NVNT	a	5180	16.561	21.41	0.5	Pass
NVNT	a	5200	16.577	21.365	0.5	Pass
NVNT	a	5240	16.584	21.481	0.5	Pass
NVNT	n20	5180	17.709	21.615	0.5	Pass
NVNT	n20	5200	17.681	21.421	0.5	Pass
NVNT	n20	5240	17.755	21.501	0.5	Pass
NVNT	n40	5190	36.174	40.25	0.5	Pass
NVNT	n40	5230	36.158	40.645	0.5	Pass
NVNT	ac20	5180	17.71	21.566	0.5	Pass
NVNT	ac20	5200	17.704	21.397	0.5	Pass
NVNT	ac20	5240	17.722	21.64	0.5	Pass
NVNT	ac40	5190	36.168	40.302	0.5	Pass
NVNT	ac40	5230	36.188	40.647	0.5	Pass
NVNT	ac80	5210	75.432	80.787	0.5	Pass

Test Graphs

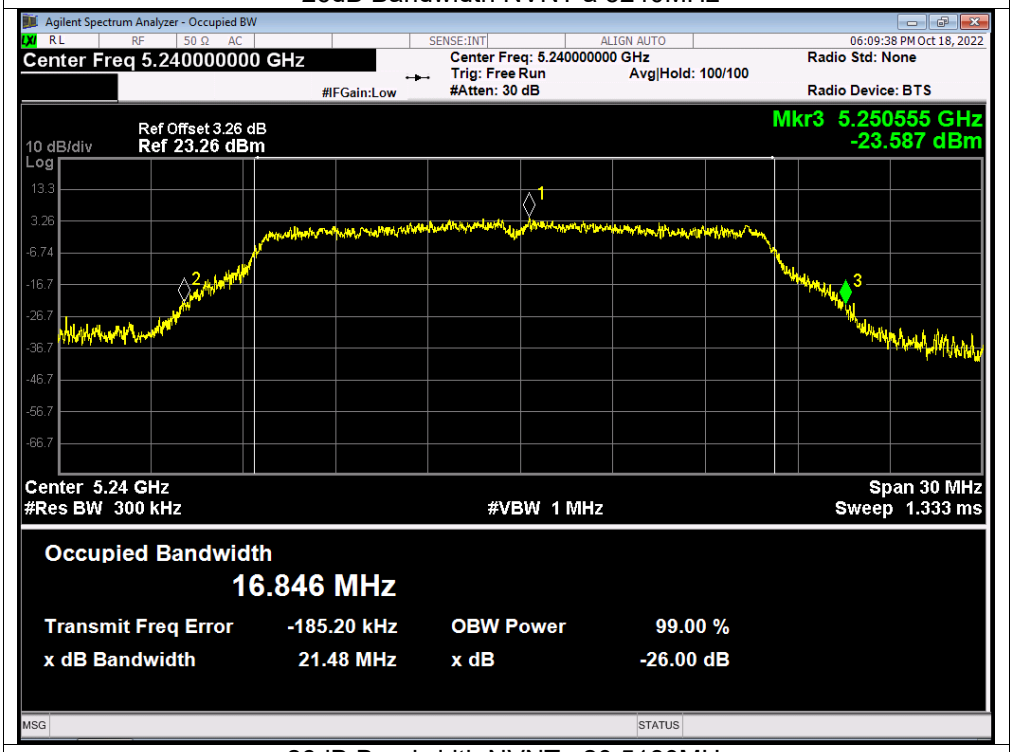
-26dB Bandwidth NVNT a 5180MHz



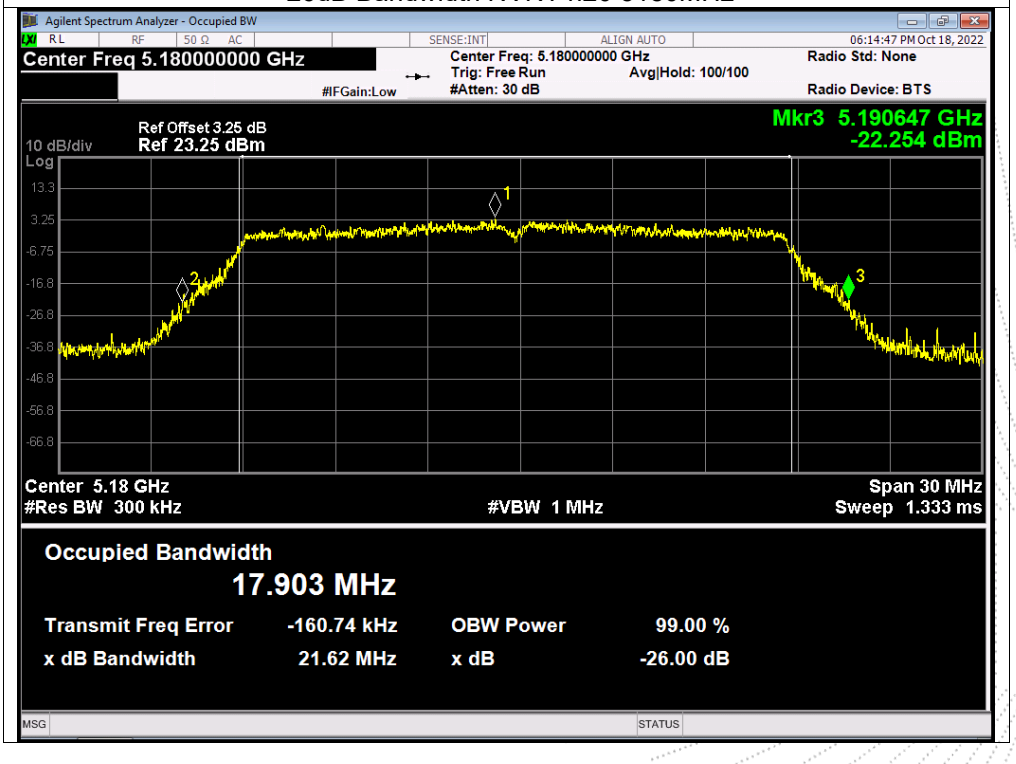
-26dB Bandwidth NVNT a 5200MHz



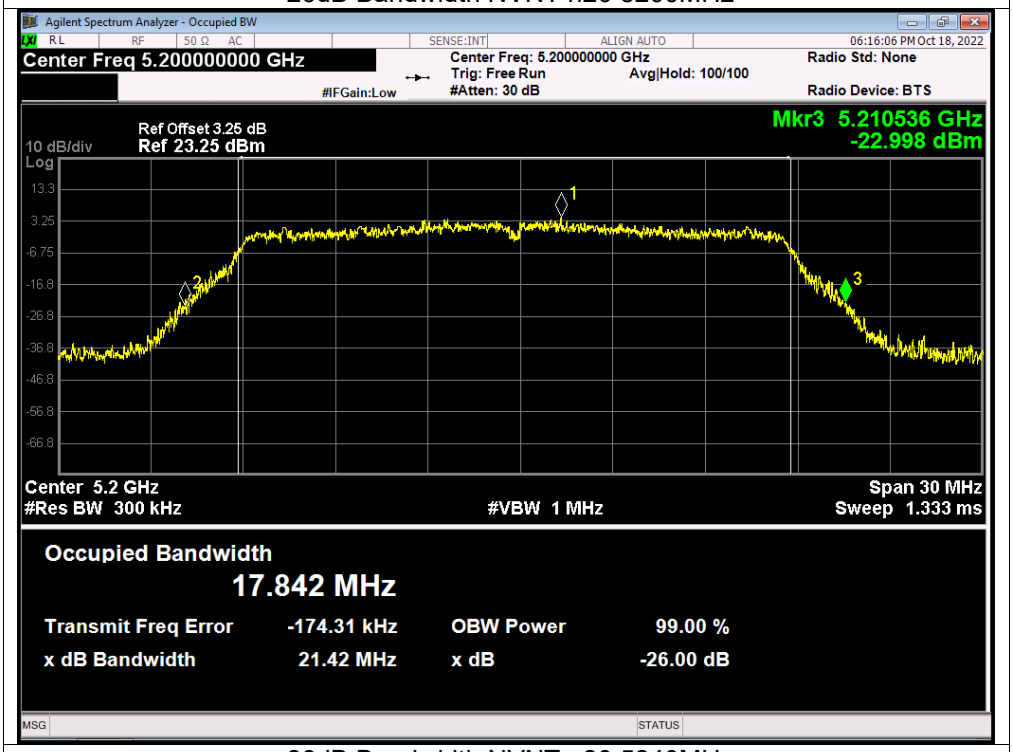
-26dB Bandwidth NVNT a 5240MHz



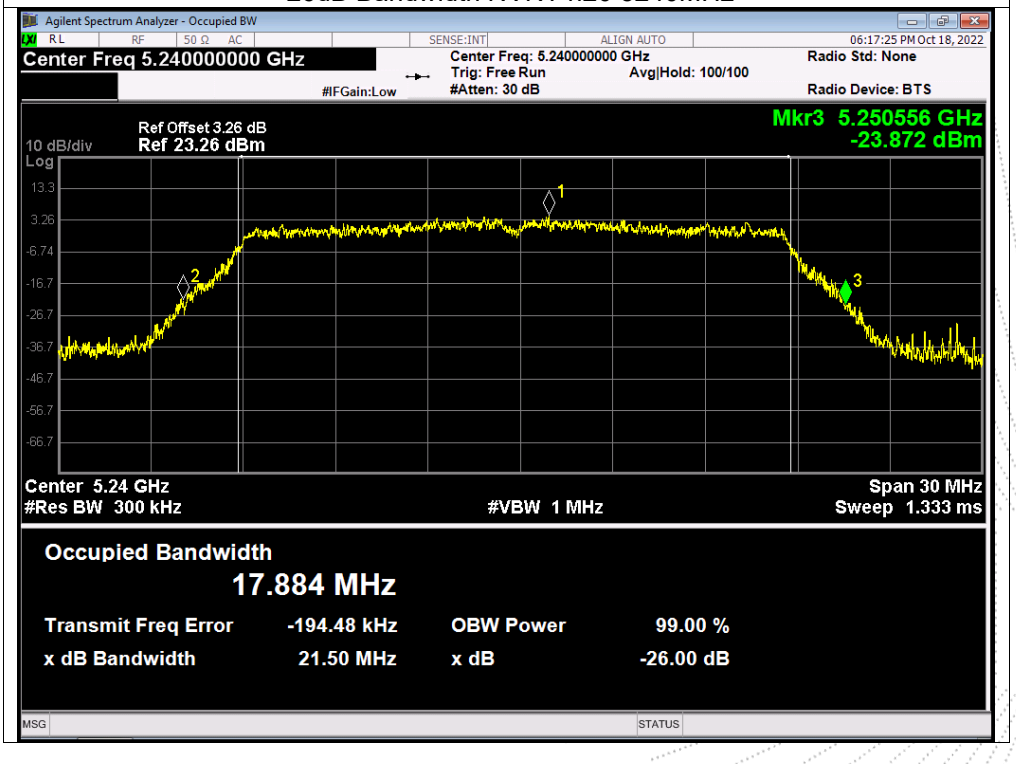
-26dB Bandwidth NVNT n20 5180MHz



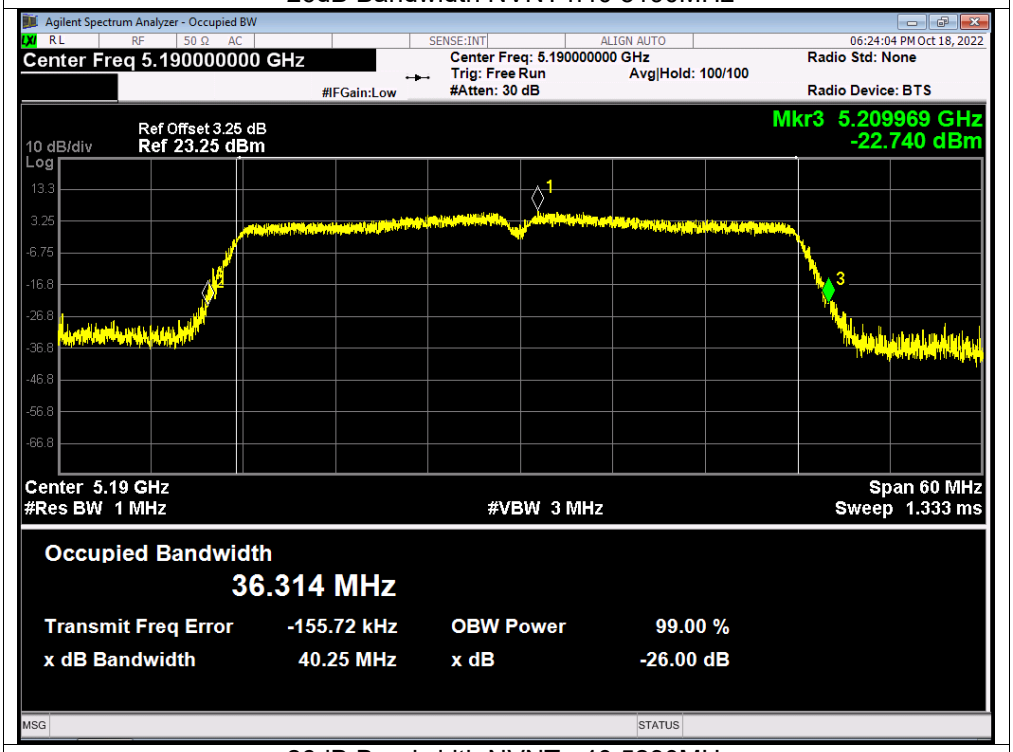
-26dB Bandwidth NVNT n20 5200MHz



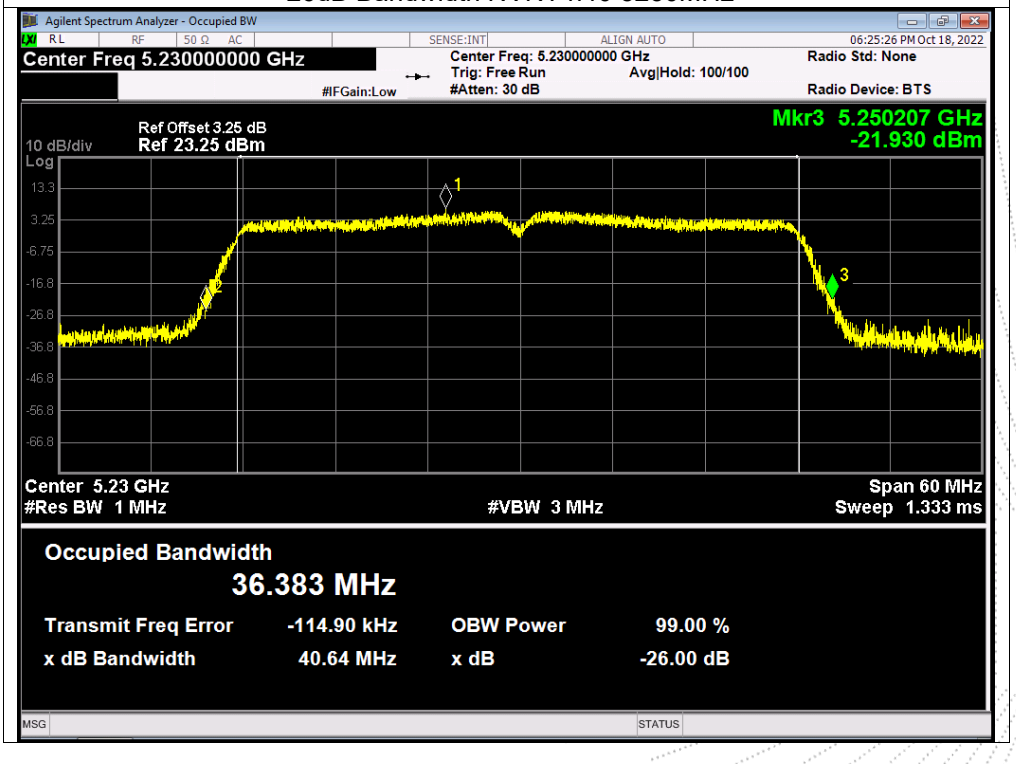
-26dB Bandwidth NVNT n20 5240MHz



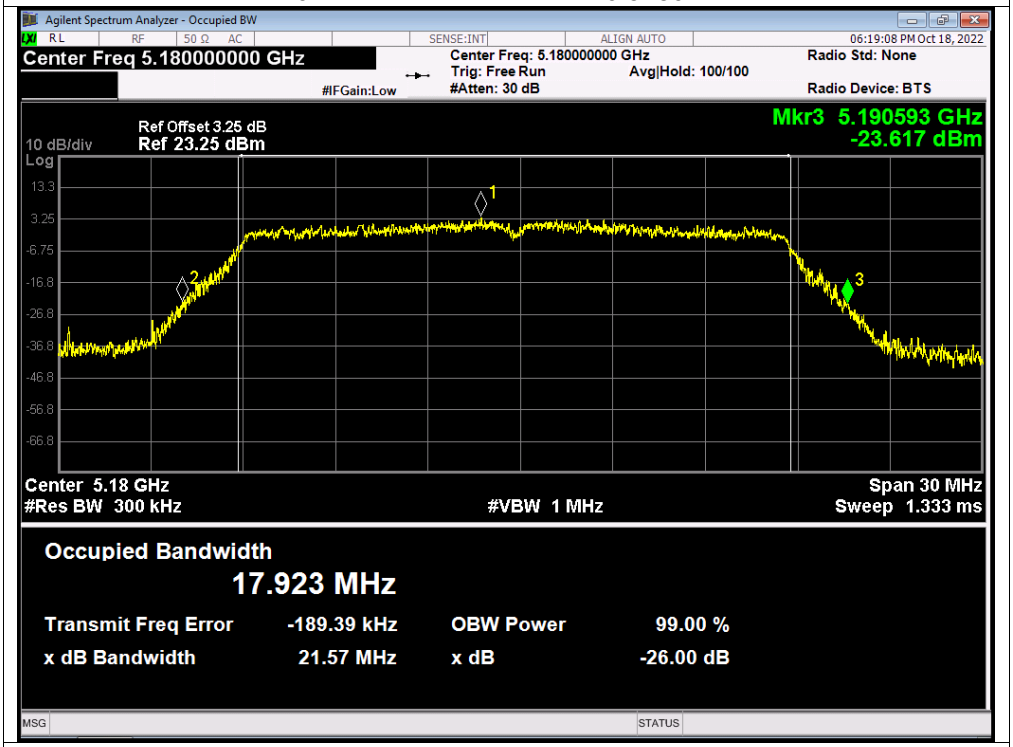
-26dB Bandwidth NVNT n40 5190MHz



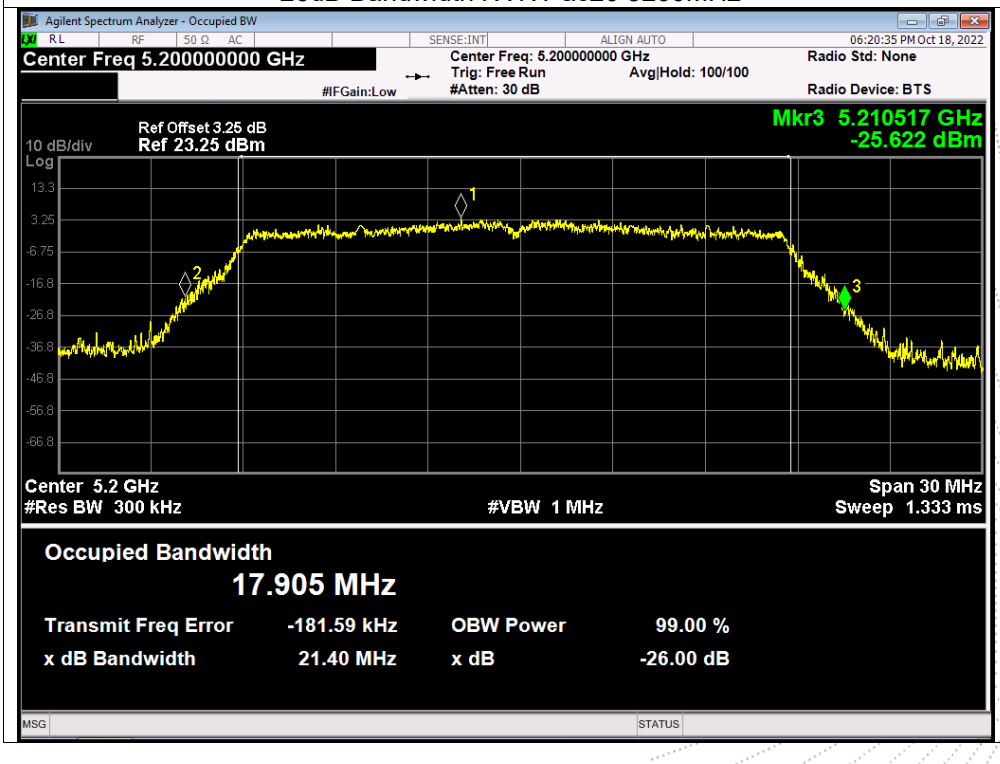
-26dB Bandwidth NVNT n40 5230MHz



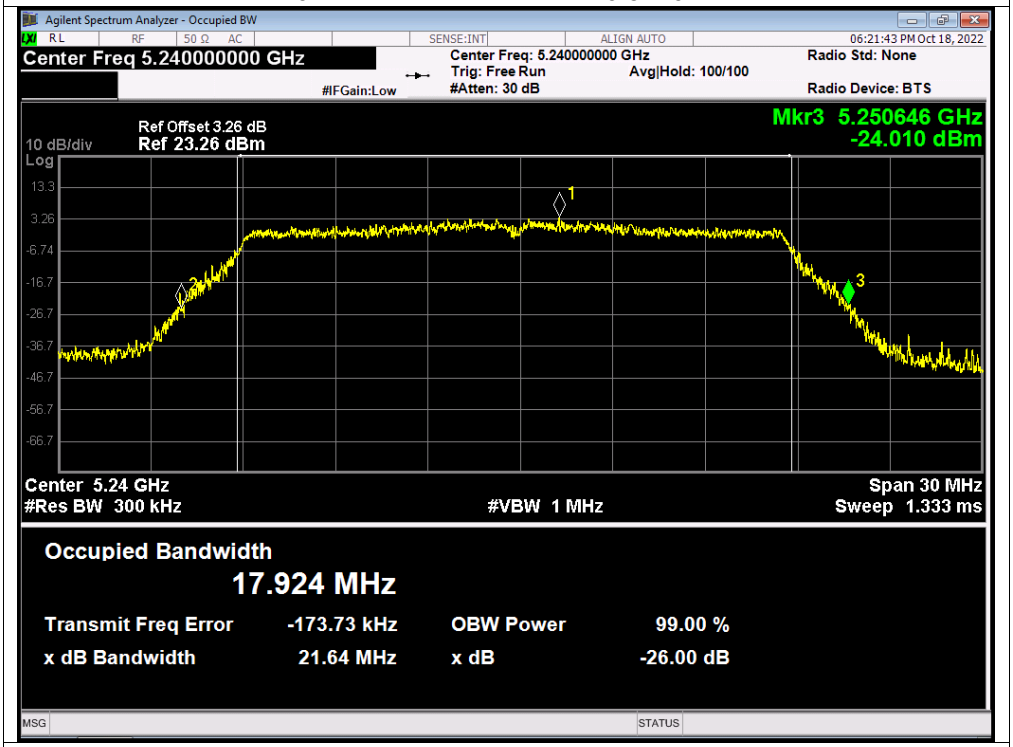
-26dB Bandwidth NVNT ac20 5180MHz



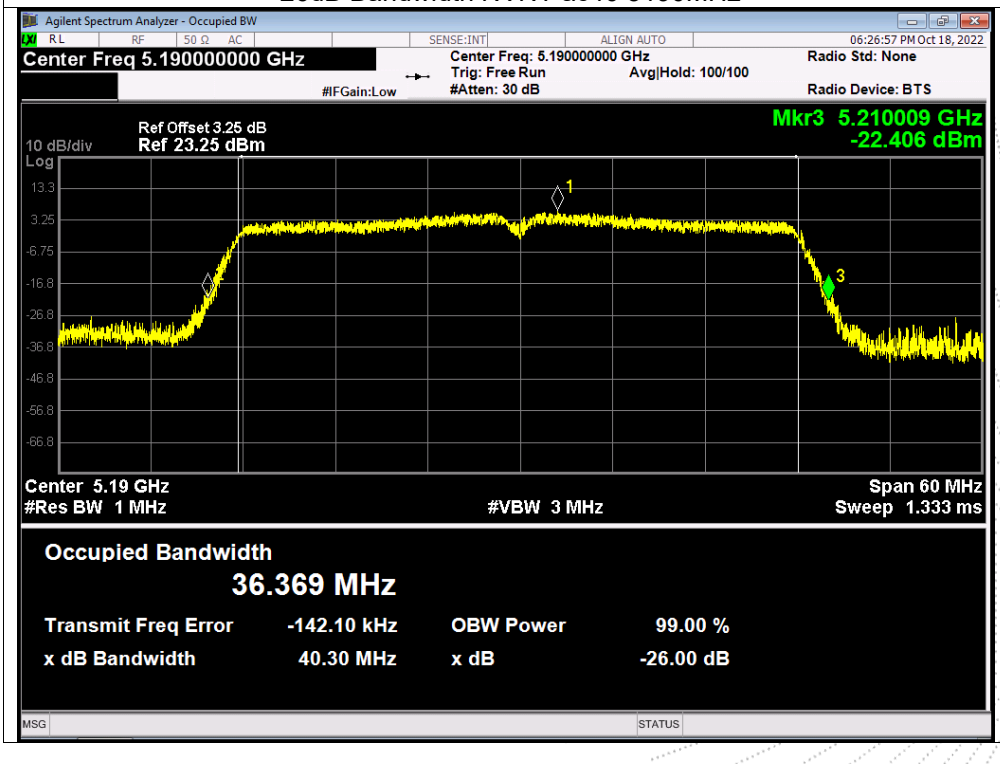
-26dB Bandwidth NVNT ac20 5200MHz



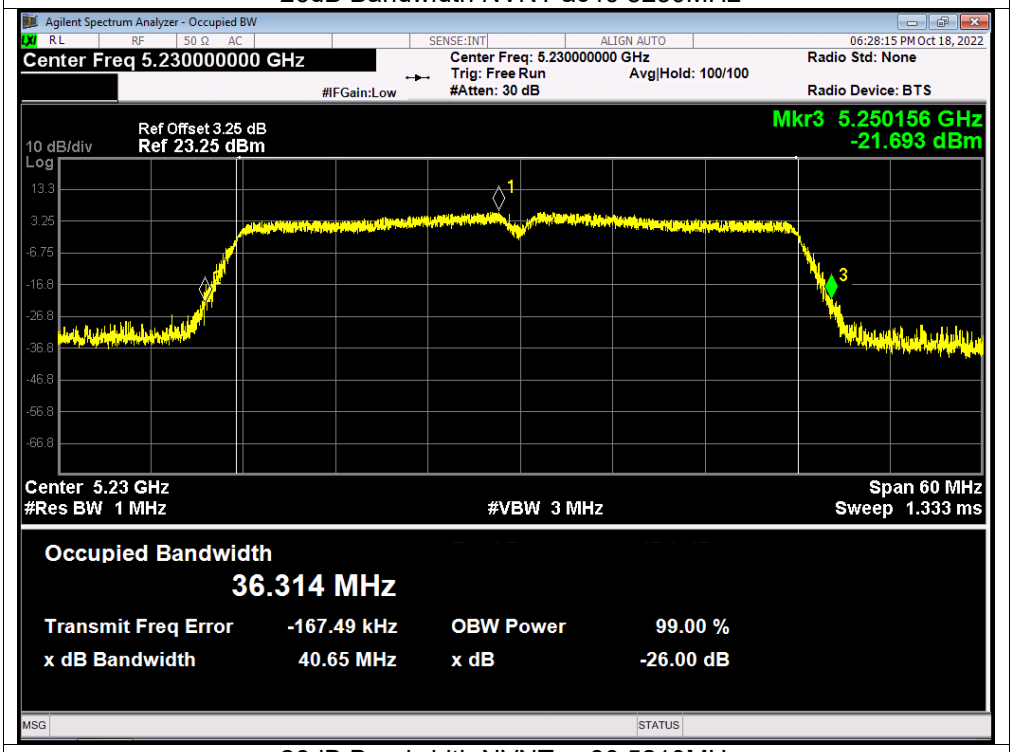
-26dB Bandwidth NVNT ac20 5240MHz



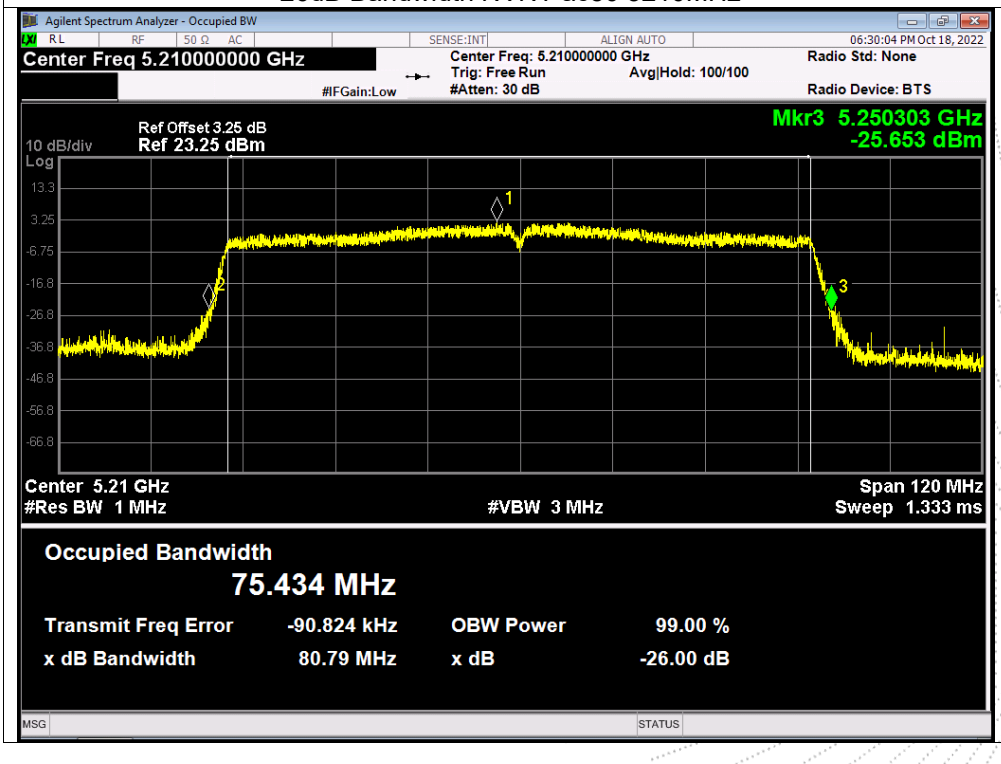
-26dB Bandwidth NVNT ac40 5190MHz



-26dB Bandwidth NVNT ac40 5230MHz

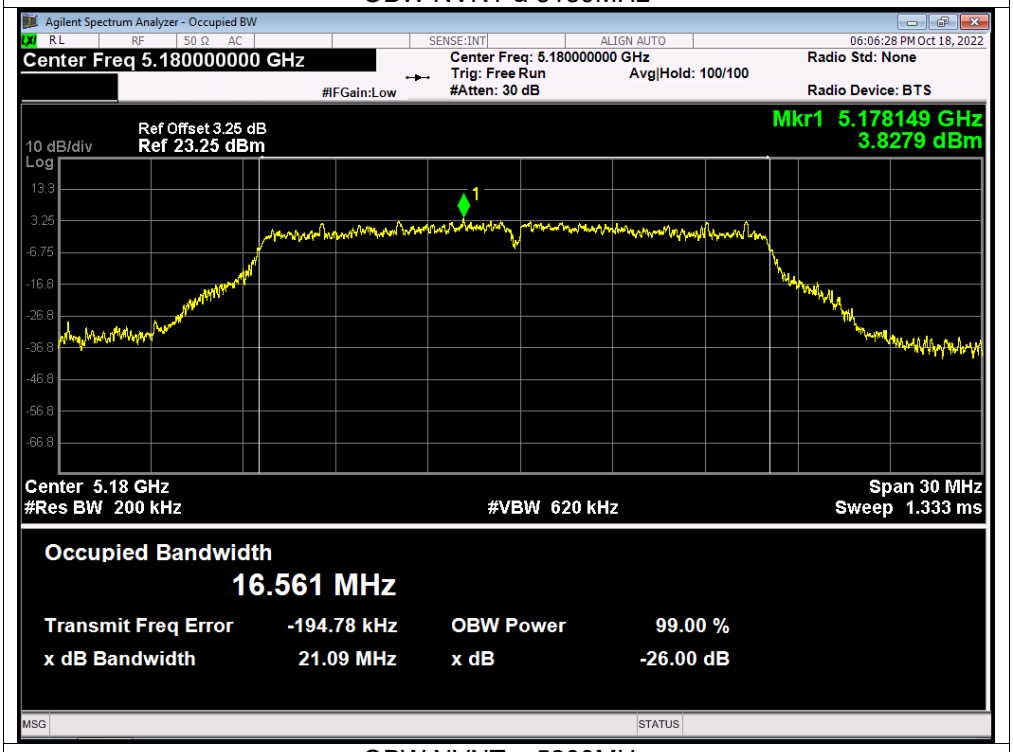


-26dB Bandwidth NVNT ac80 5210MHz

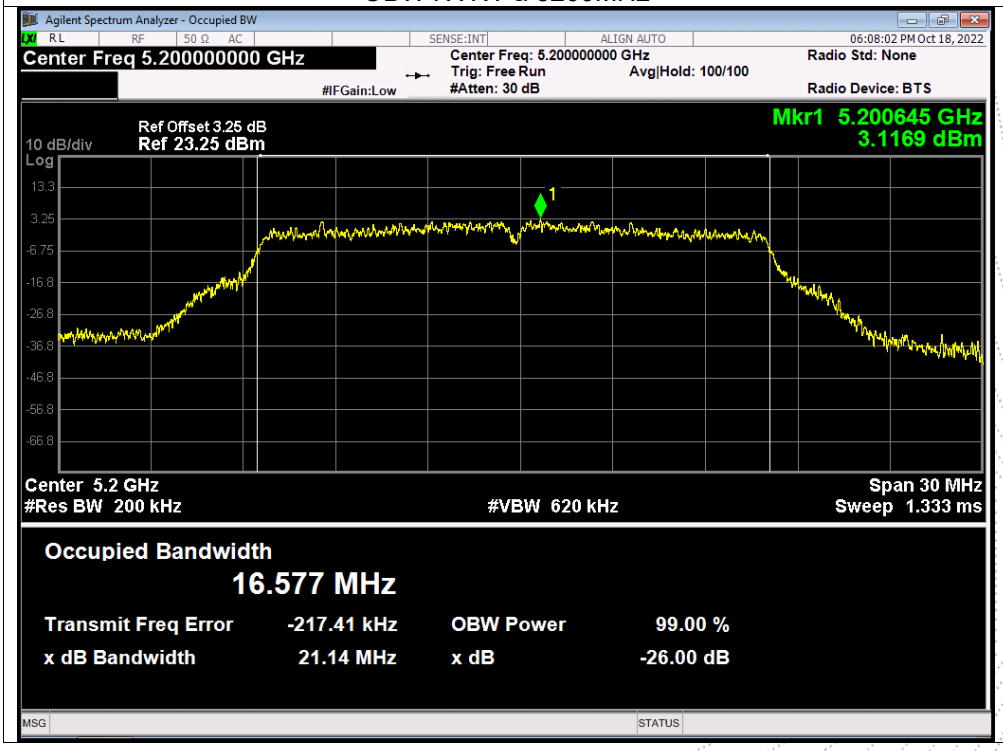


Test Graphs

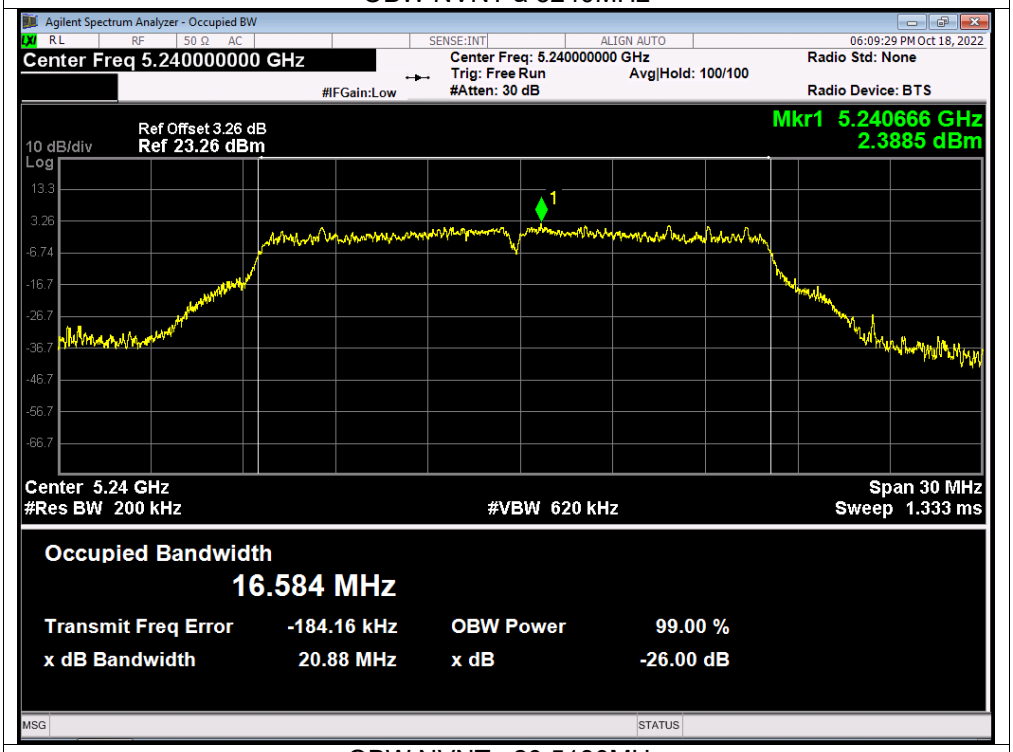
OBW NVNT a 5180MHz



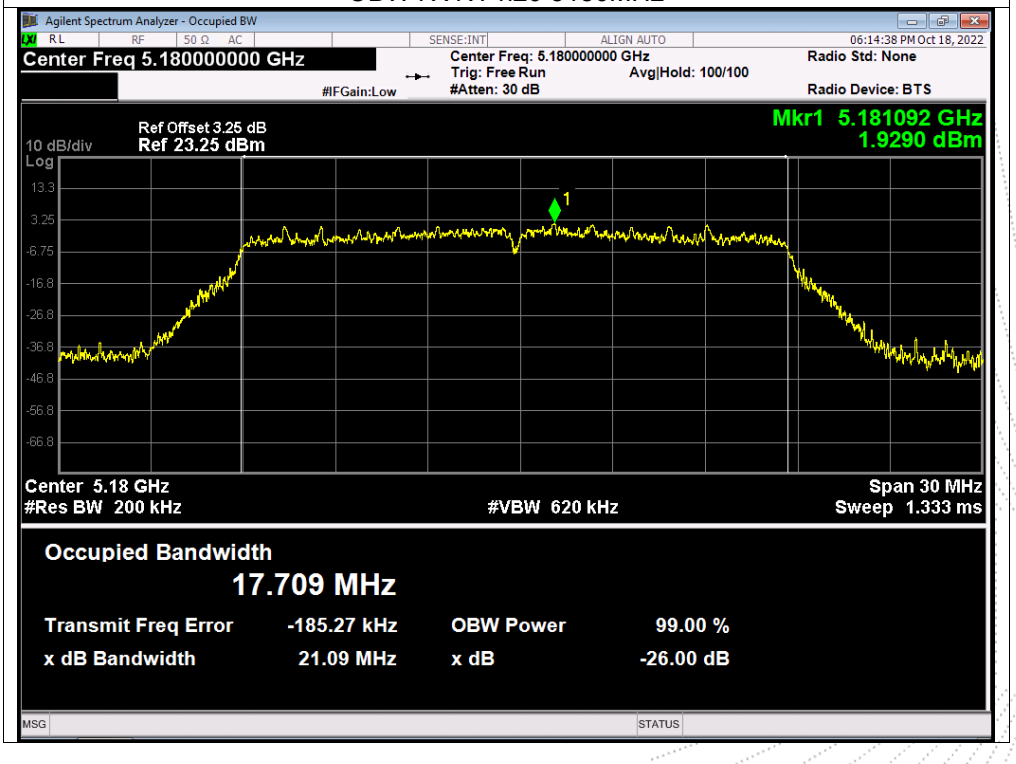
OBW NVNT a 5200MHz



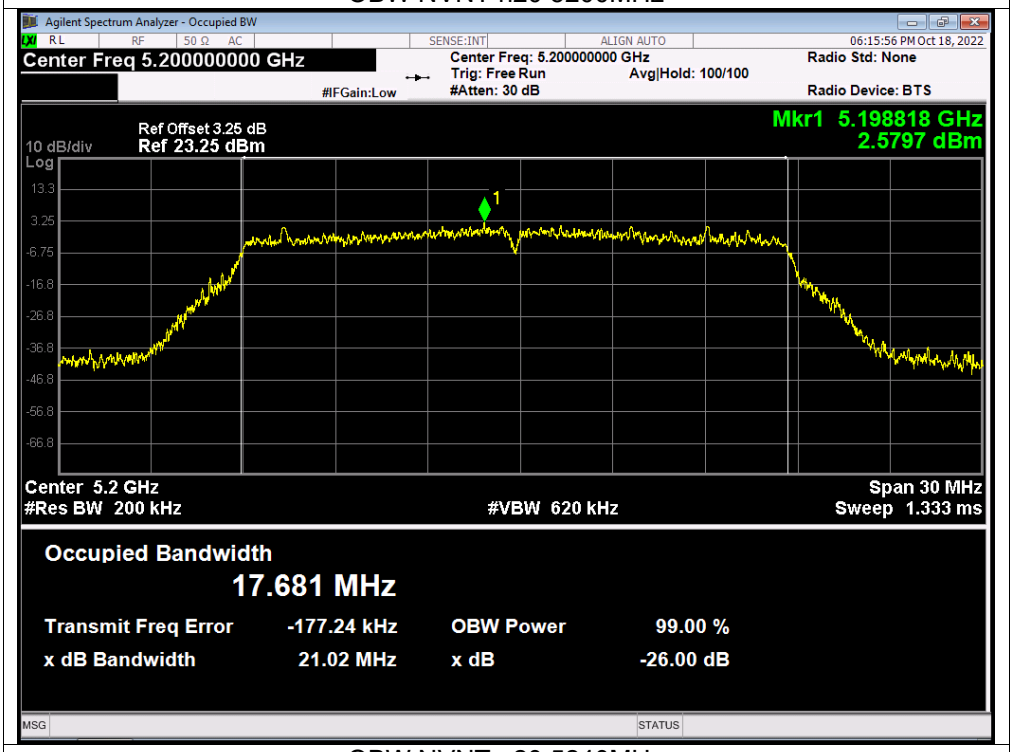
OBW NVNT a 5240MHz



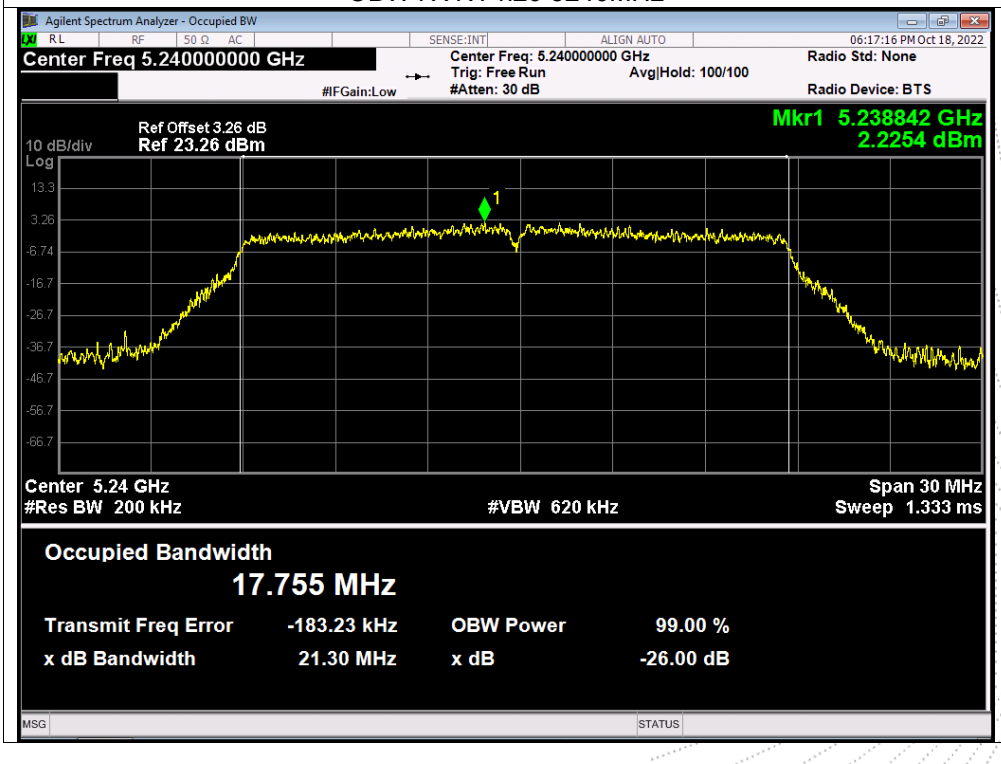
OBW NVNT n20 5180MHz



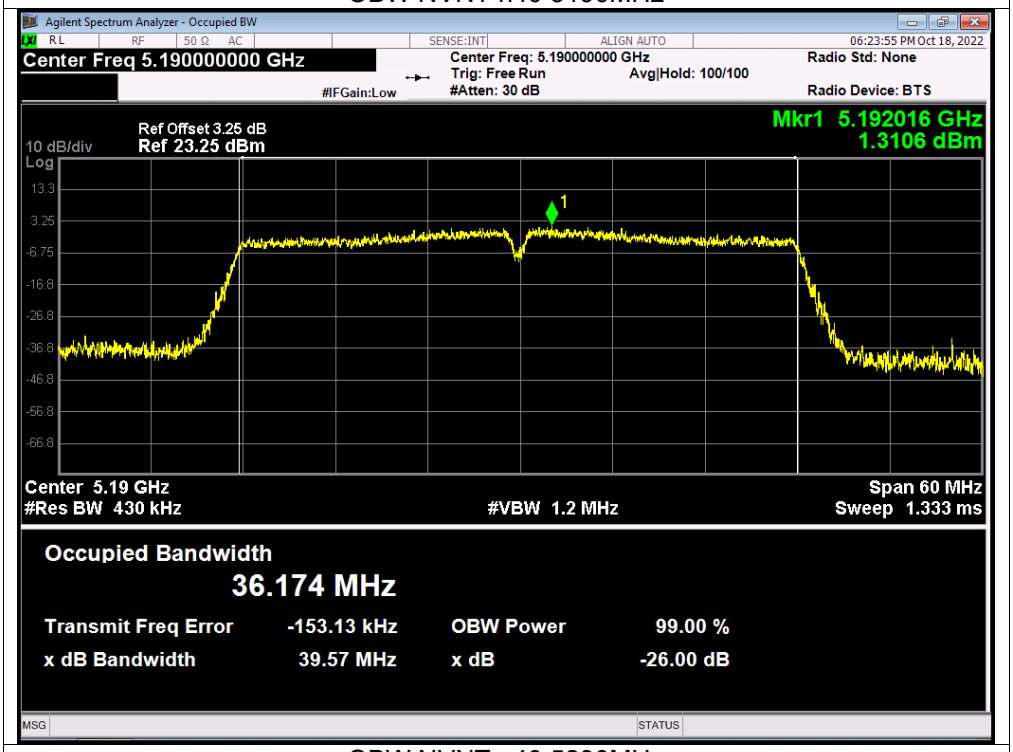
OBW NVNT n20 5200MHz



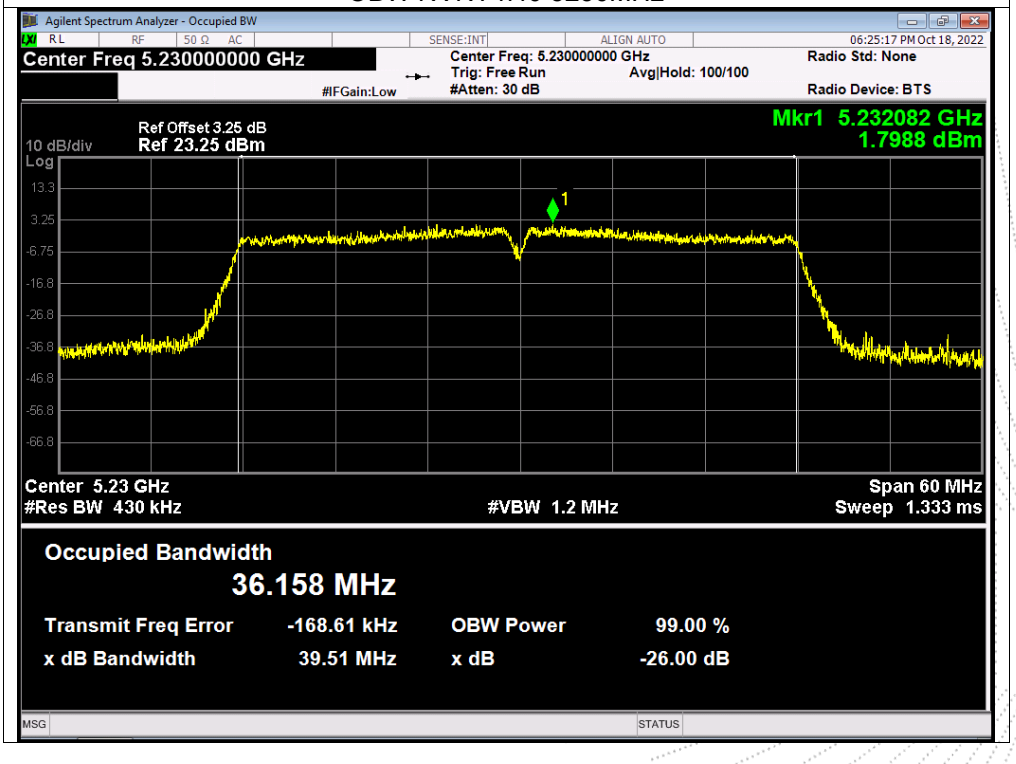
OBW NVNT n20 5240MHz



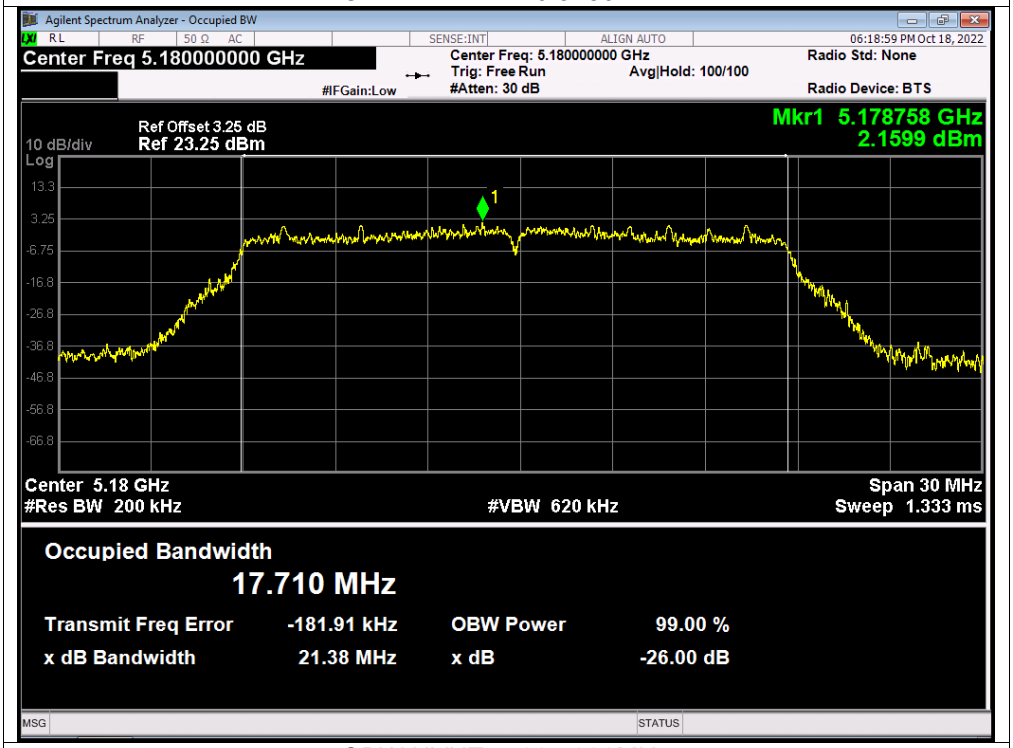
OBW NVNT n40 5190MHz



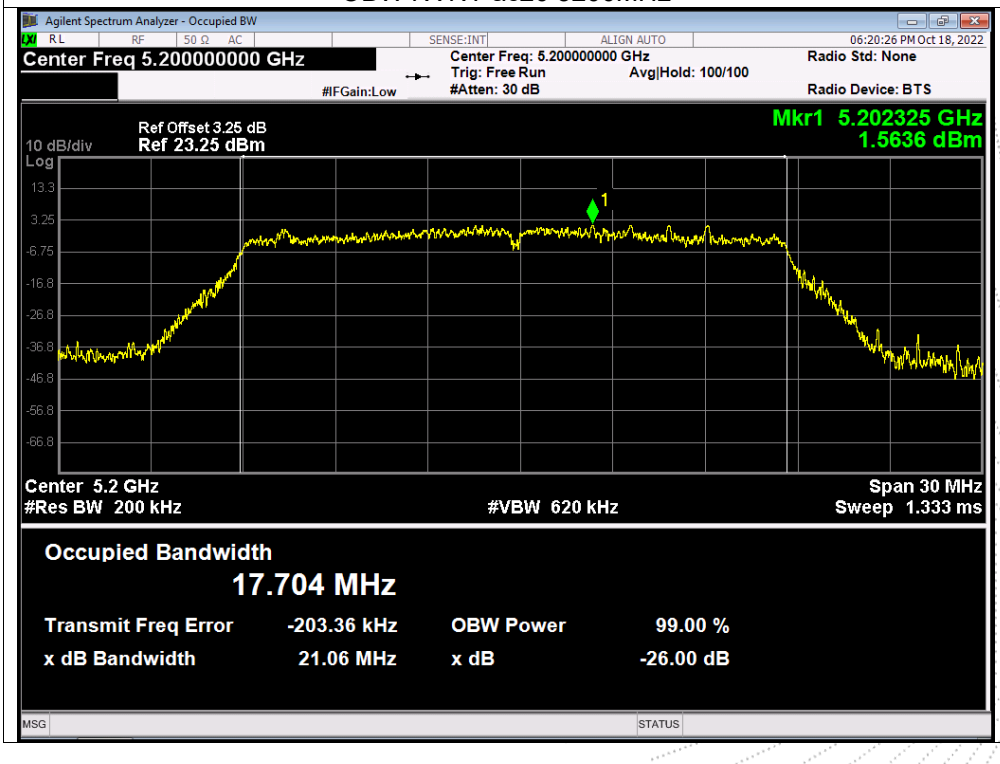
OBW NVNT n40 5230MHz



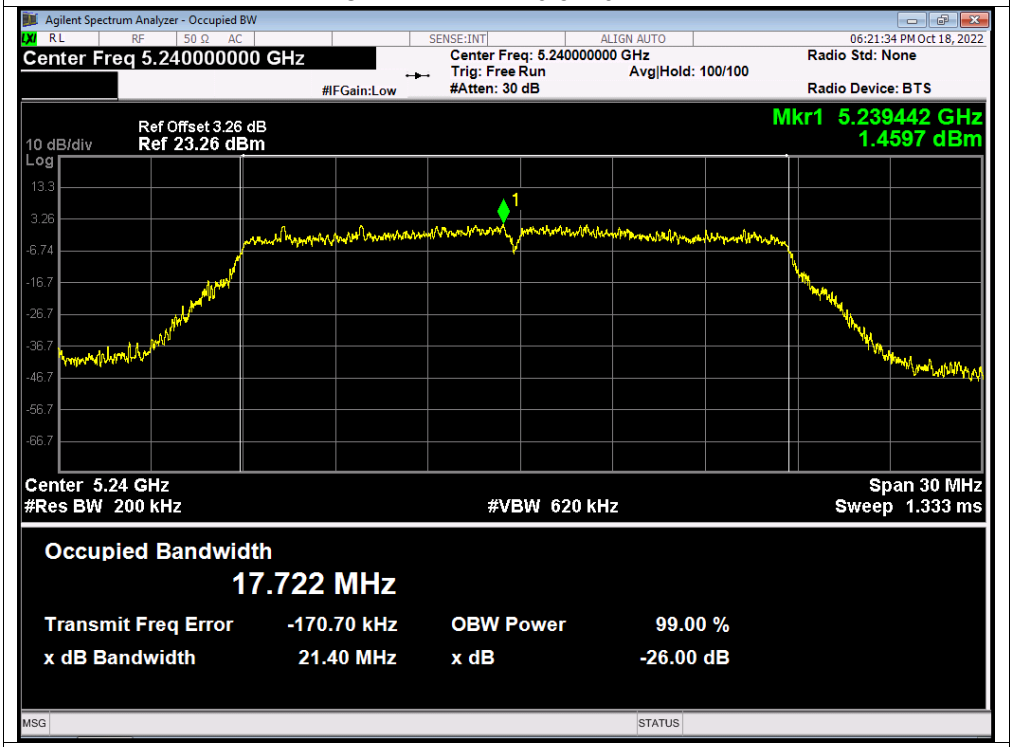
OBW NVNT ac20 5180MHz



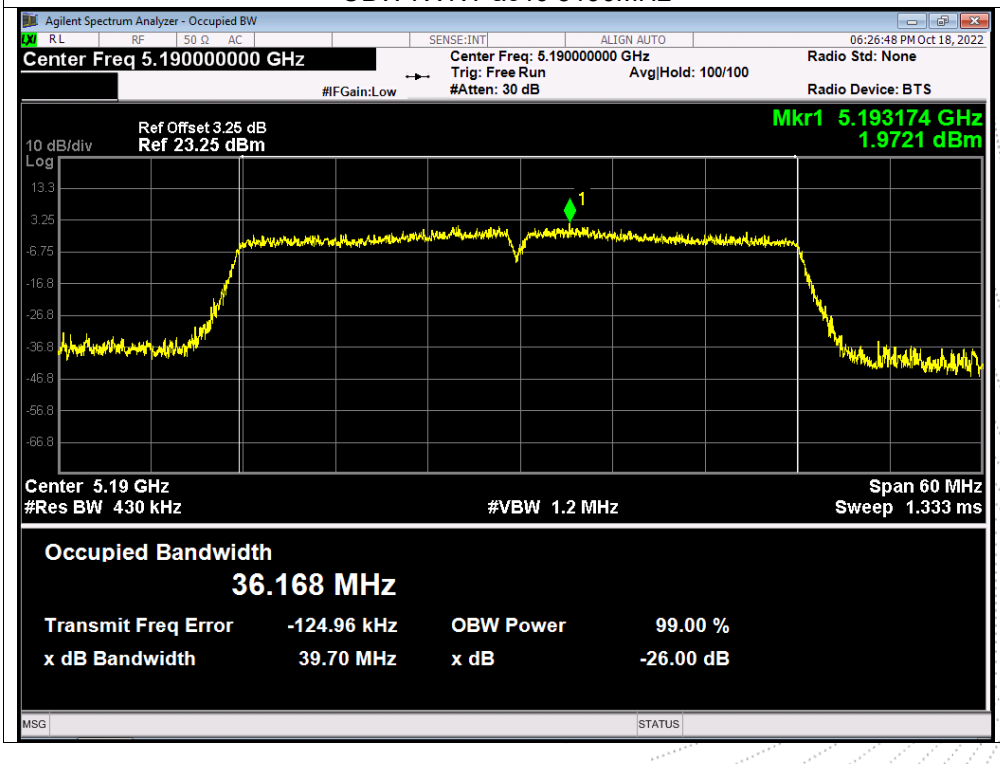
OBW NVNT ac20 5200MHz



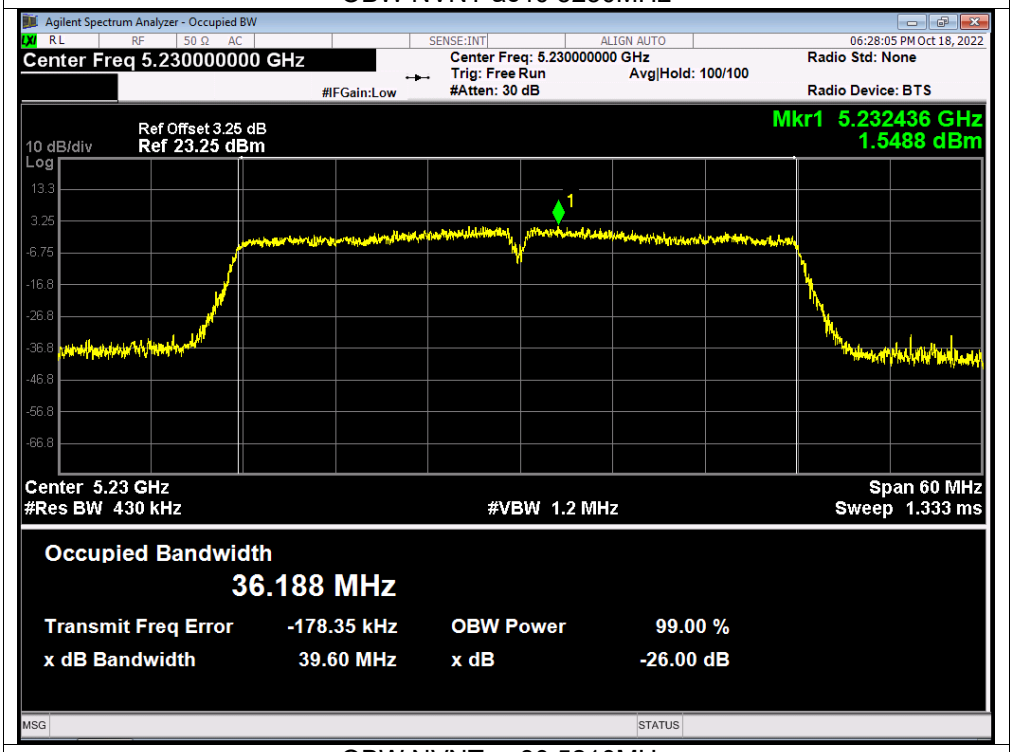
OBW NVNT ac20 5240MHz



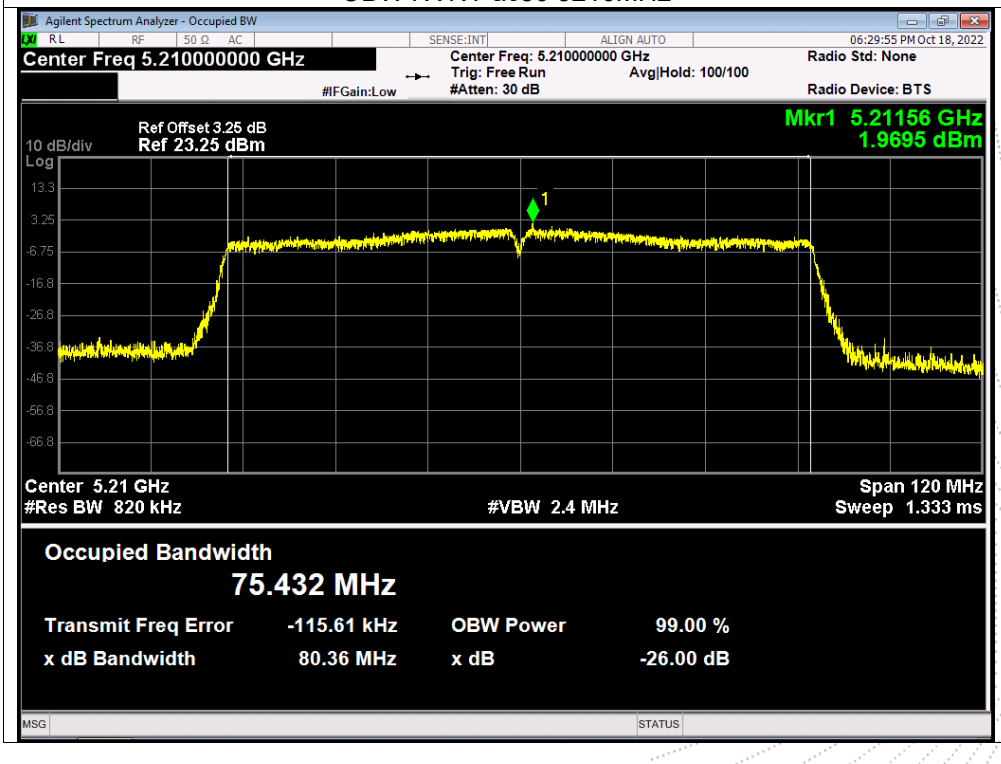
OBW NVNT ac40 5190MHz



OBW NVNT ac40 5230MHz



OBW NVNT ac80 5210MHz

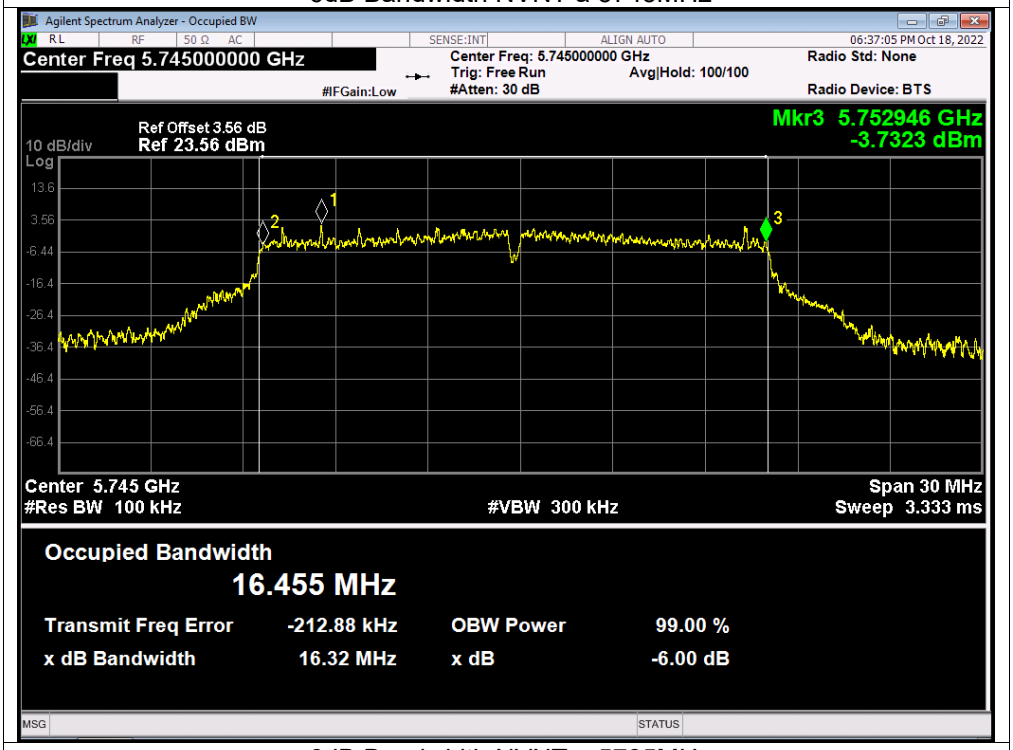


Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 5V
Test Mode ：	TX Frequency U-NII-3(5745-5825MHz)		

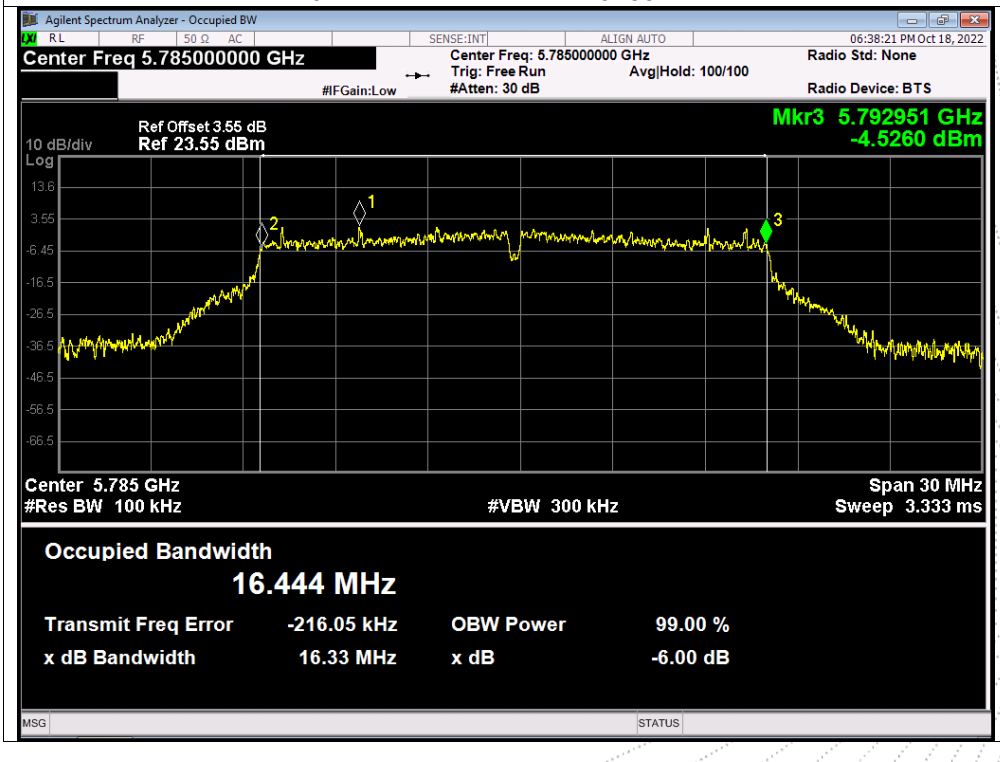
Condition	Mode	Frequency (MHz)	99% bandwidth(MHz)	-6dB bandwidth (MHz)	Limit -6dB bandwidth MHz	Result
NVNT	a	5745	16.651	16.317	≥500	Pass
NVNT	a	5785	16.585	16.333	≥500	Pass
NVNT	a	5825	16.594	16.3	≥500	Pass
NVNT	n20	5745	17.707	17.293	≥500	Pass
NVNT	n20	5785	17.694	17.539	≥500	Pass
NVNT	n20	5825	17.708	17.551	≥500	Pass
NVNT	n40	5755	36.181	35.816	≥500	Pass
NVNT	n40	5795	36.145	35.465	≥500	Pass
NVNT	ac20	5745	17.722	17.159	≥500	Pass
NVNT	ac20	5785	17.718	17.348	≥500	Pass
NVNT	ac20	5825	17.713	17.536	≥500	Pass
NVNT	ac40	5755	36.15	35.871	≥500	Pass
NVNT	ac40	5795	36.179	35.678	≥500	Pass
NVNT	ac80	5775	75.396	75.183	≥500	Pass

Test Graphs

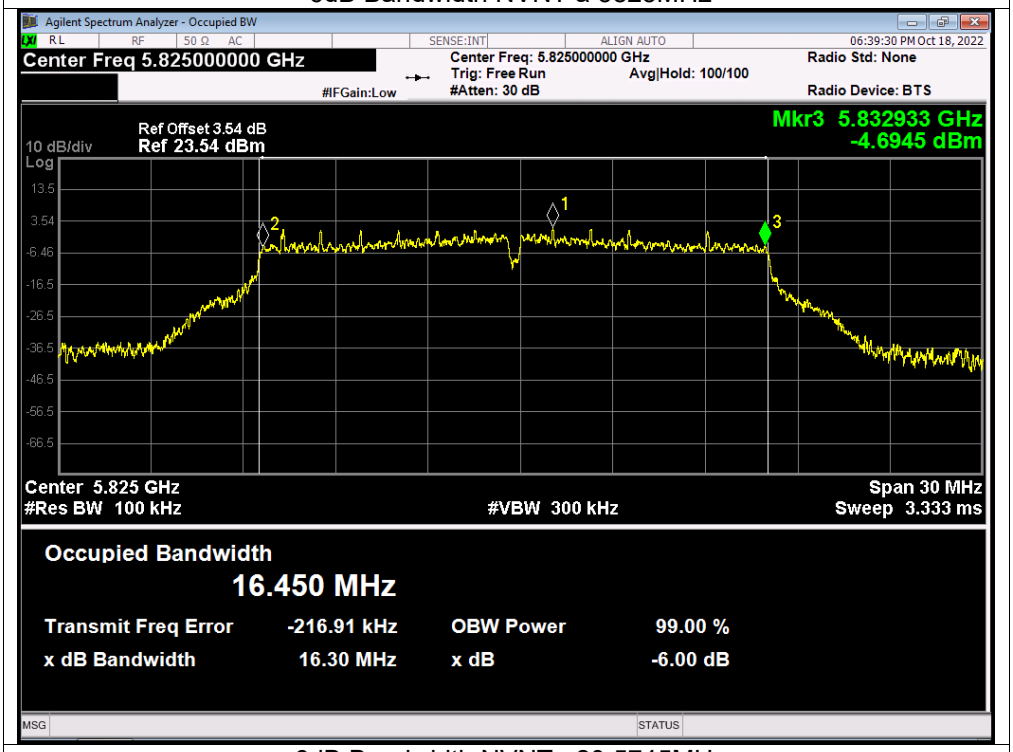
-6dB Bandwidth NVNT a 5745MHz



-6dB Bandwidth NVNT a 5785MHz



-6dB Bandwidth NVNT a 5825MHz



-6dB Bandwidth NVNT n20 5745MHz