TEST REPORT

Report No.:	BCTC2307096488-4E
Applicant:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Product Name:	Smart Phone
Model/Type reference:	C36
Tested Date:	2023-07-20 to 2023-07-31
Issued Date:	2023-08-01

Shenzhen BCTC Testing Co., Ltd.

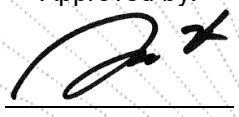
FCC ID: 2ANMU-C36SPUT

Product Name:	Smart Phone
Trademark:	OUKITEL
Model/Type reference:	C36 C36 S, C36 Pro, C36 Ultra
Prepared For:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX China
Manufacturer:	SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address:	A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, 518XXX 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:	2023-07-20
Sample tested Date:	2023-07-20 to 2023-07-31
Issue Date:	2023-08-01
Report No.:	BCTC2307096488-4E
Test Standards:	FCC Part15 15.407 ANSI C63.10-2013 KDB 662911 D01 v02r01 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
BCTC2307096488-4E	2023-08-01	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	2.1051, 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	2.1051, 15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

Note：The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure.

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

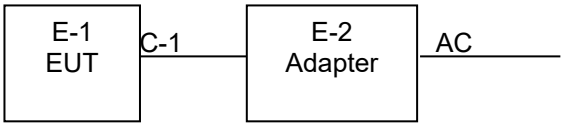
4.1 Product Information

Model/Type Ref.:	C36 C36 S, C36 Pro, C36 Ultra
Model differences:	All the model are the same circuit and RF module, except model names.
Hardware Version:	FS311-MB-V0.1A
Software Version:	OUKITEL_C36_EEA_V01
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:	0.05 dBi
Ratings:	DC 5V from adapter/DC 3.87V from battery
Adapter Information:	Model: HJ-0502000N2-US Input: 100-240V~50/60Hz 0.3A Output: 5.0V ⎓ 2.0A

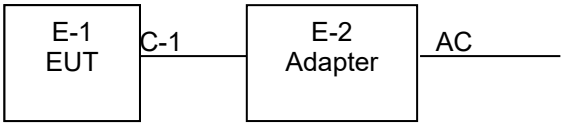
4.2 Test Setup Configuration

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	Smart Phone	OUKITEL	C36	N/A	EUT
E-2	Adapter	N/A	HJ-0502000N2-US	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	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
Mode 4	Link Mode

Note:

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

(2) We're testing antenna A data.

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
A2LA certificate registration number is: CN1212
ISED Registered No.: 23583
ISED CAB identifier: CN0017

5.2 Test Instrument Used

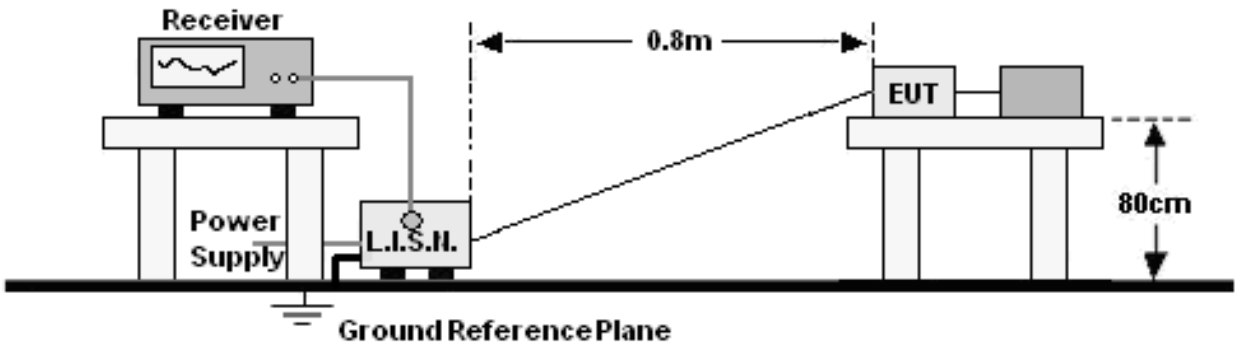
Conducted Emissions Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
LISN	R&S	ENV216	101375	May 15, 2023	May 14, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\
Attenuator	\	10dB DC-6GHz	1650	May 15, 2023	May 14, 2024

RF Conducted Test					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
Power Meter	Keysight	E4419	\	May 15, 2023	May 14, 2024
Power Sensor (AV)	Keysight	E9300A	\	May 15, 2023	May 14, 2024
Signal Analyzer20kHz-26.5GHz	Keysight	N9020A	MY49100060	May 15, 2023	May 14, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Communication test set	R&S	CMW500	126173	Nov. 08, 2022	Nov. 07, 2023
Radio frequency control box	MAIWEI	MW200-RFCB	\	\	\
Software	MAIWEI	MTS 8200	\	\	\

Radiated Emissions Test (966 Chamber01)					
Equipment	**Manufacturer**	**Model#**	**Serial#**	**Last Cal.**	**Next Cal.**
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 15, 2023	May 14, 2024
Receiver	R&S	ESRP	101154	May 15, 2023	May 14, 2024
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 15, 2023	May 14, 2024
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 29, 2023	May 28, 2024
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 31, 2023	May 30, 2024
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 15, 2023	May 14, 2024
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 31, 2023	May 30, 2024
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35-HG	2034381	May 15, 2023	May 14, 2024
Horn Antenna(18G Hz-40GHz)	Schwarzbeck	BBHA9170	00822	May 31, 2023	May 30, 2024
Spectrum Analyzer9kHz-40GHz	R&S	FSP40	100363	May 15, 2023	May 14, 2024
Communication test set	R&S	CMW500	126173	Nov. 08, 2022	Nov. 07, 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

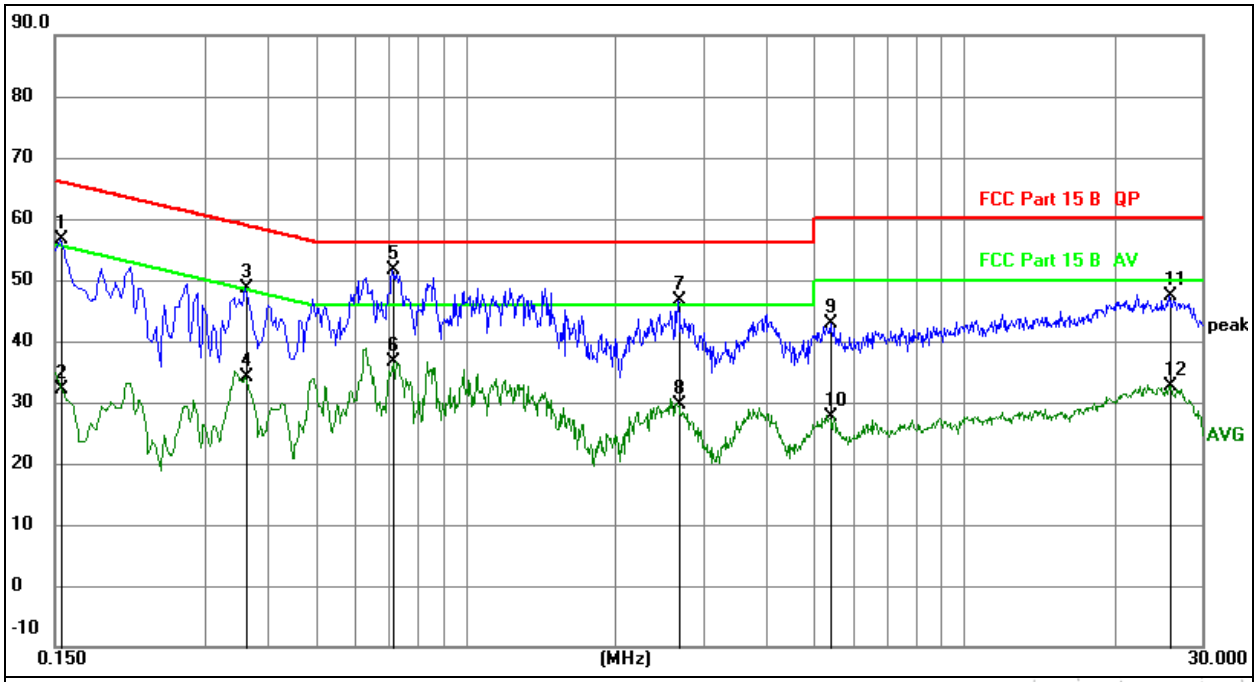
a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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

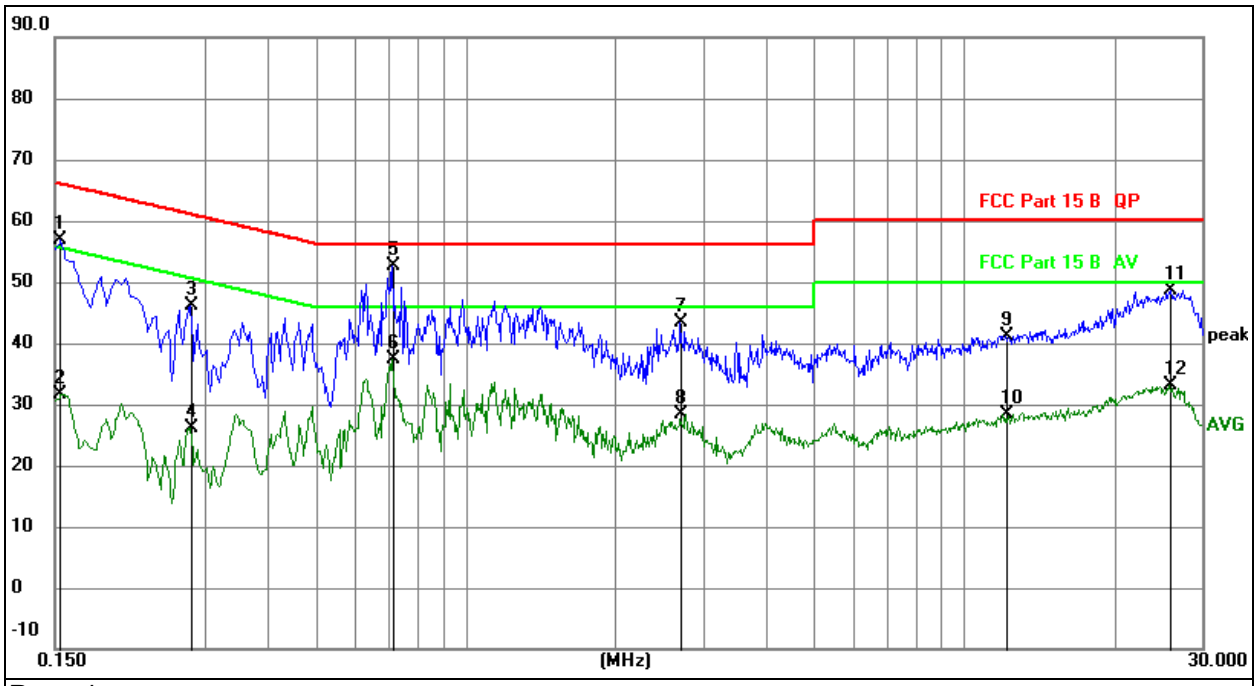
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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	47.17	9.52	56.69	65.75	-9.06	QP
2		0.1545	22.61	9.52	32.13	55.75	-23.62	AVG
3		0.3615	38.97	9.62	48.59	58.69	-10.10	QP
4		0.3615	24.51	9.62	34.13	48.69	-14.56	AVG
5	*	0.7125	41.93	9.62	51.55	56.00	-4.45	QP
6		0.7125	27.05	9.62	36.67	46.00	-9.33	AVG
7		2.6655	36.79	9.77	46.56	56.00	-9.44	QP
8		2.6655	19.98	9.77	29.75	46.00	-16.25	AVG
9		5.4105	32.98	9.79	42.77	60.00	-17.23	QP
10		5.4105	17.76	9.79	27.55	50.00	-22.45	AVG
11		25.7460	37.77	9.73	47.50	60.00	-12.50	QP
12		25.7460	22.94	9.73	32.67	50.00	-17.33	AVG

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	N
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



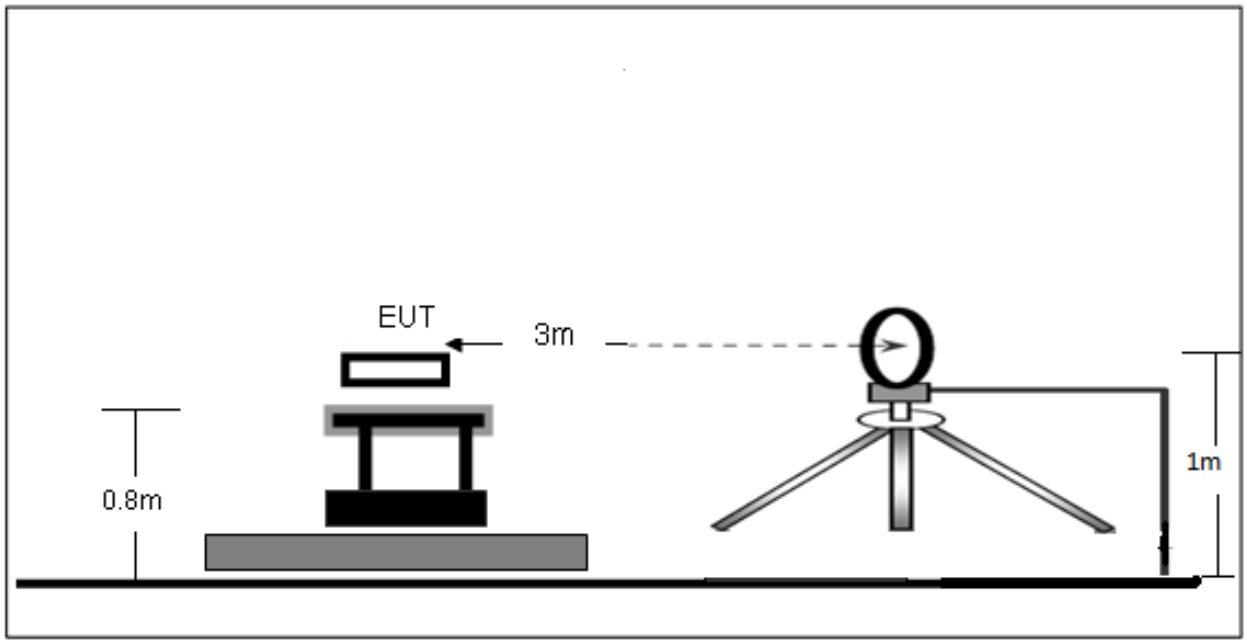
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement=Reading Level+ Correct Factor
4. Over1 Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1		0.1539	47.26	9.52	56.78	65.79	-9.01	QP
2		0.1539	22.05	9.52	31.57	55.79	-24.22	AVG
3		0.2803	36.55	9.61	46.16	60.81	-14.65	QP
4		0.2803	16.57	9.61	26.18	50.81	-24.63	AVG
5	*	0.7122	43.00	9.62	52.62	56.00	-3.38	QP
6		0.7122	27.66	9.62	37.28	46.00	-8.72	AVG
7		2.6925	33.71	9.77	43.48	56.00	-12.52	QP
8		2.6925	18.64	9.77	28.41	46.00	-17.59	AVG
9		12.1240	31.59	9.66	41.25	60.00	-18.75	QP
10		12.1240	18.68	9.66	28.34	50.00	-21.66	AVG
11		25.8638	39.01	9.73	48.74	60.00	-11.26	QP
12		25.8638	23.29	9.73	33.02	50.00	-16.98	AVG

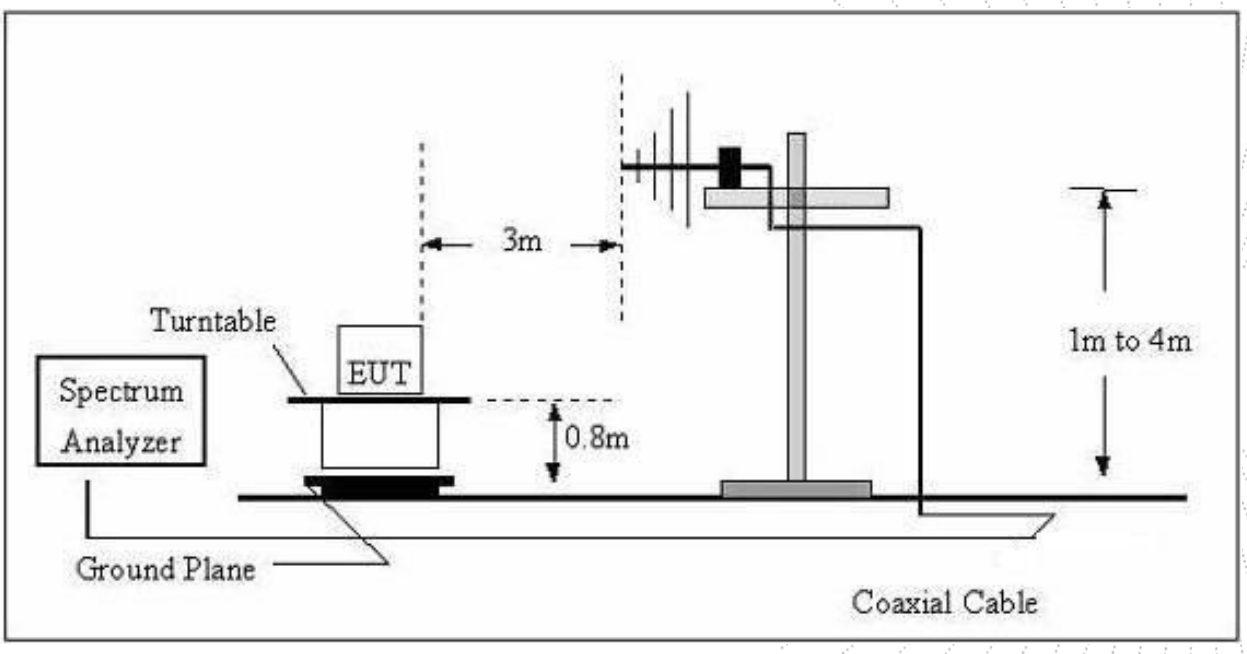
7. Radiated Emissions

7.1 Block Diagram Of Test Setup

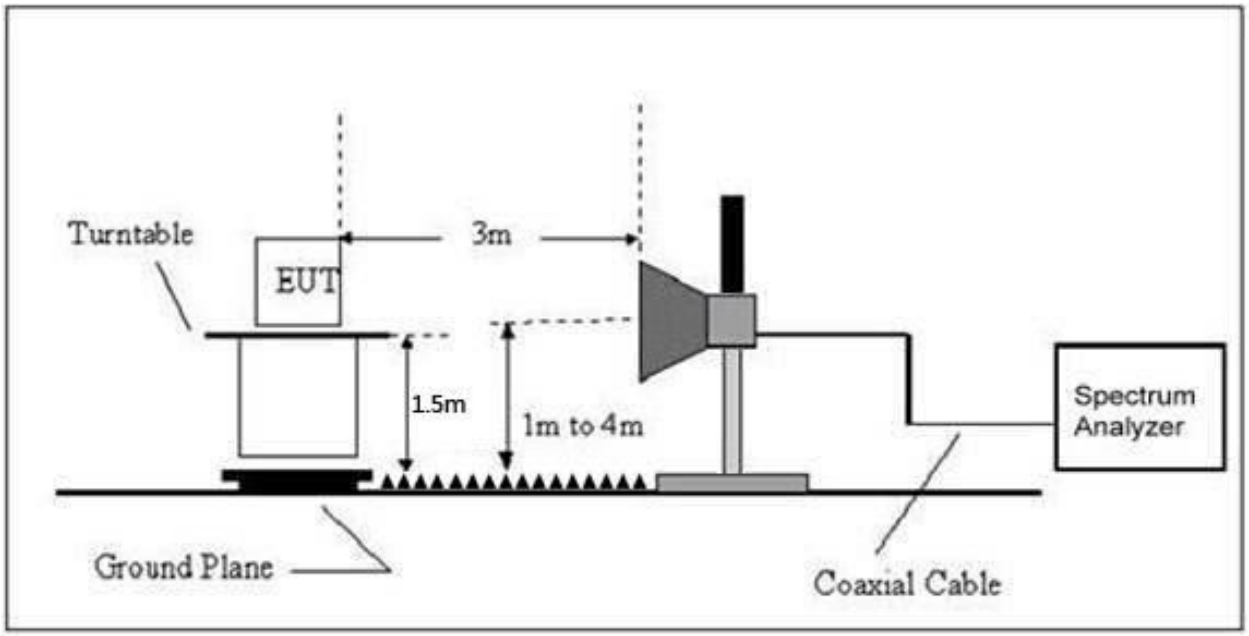
（A）Radiated Emission Test-Up Frequency Below 30MHz



（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

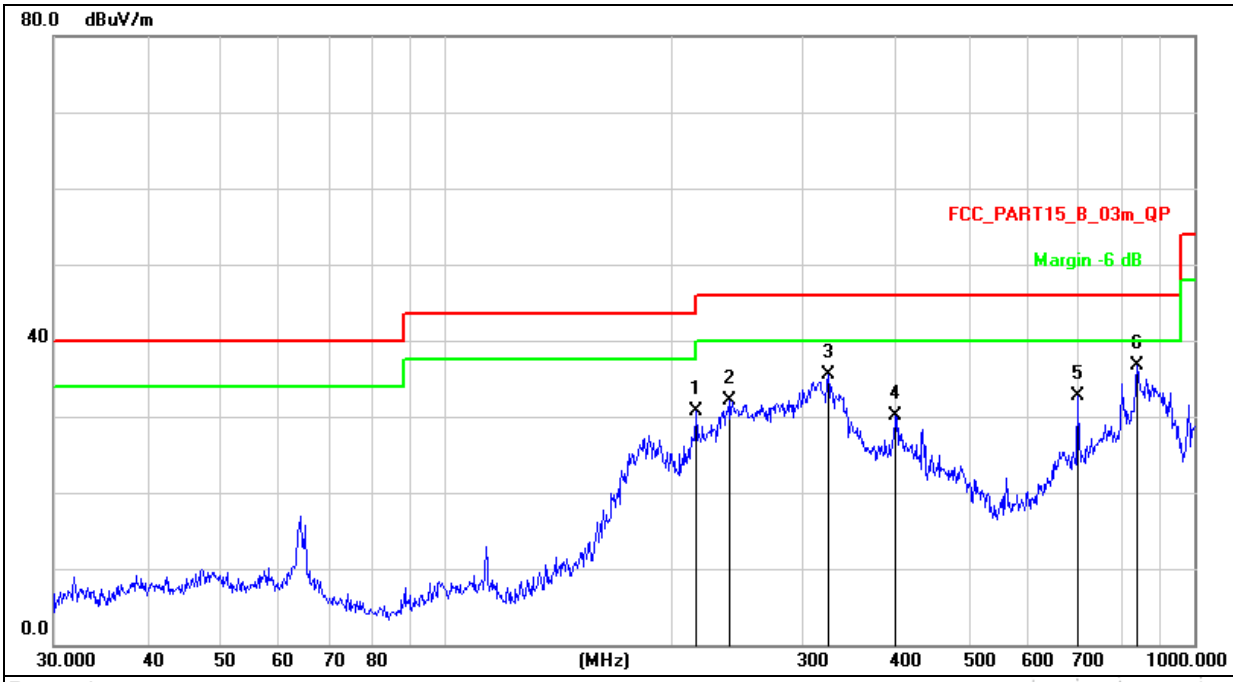
Temperature:	26℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	AC120V/60Hz
Test Mode:	Mode 4	Polarization :	--

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

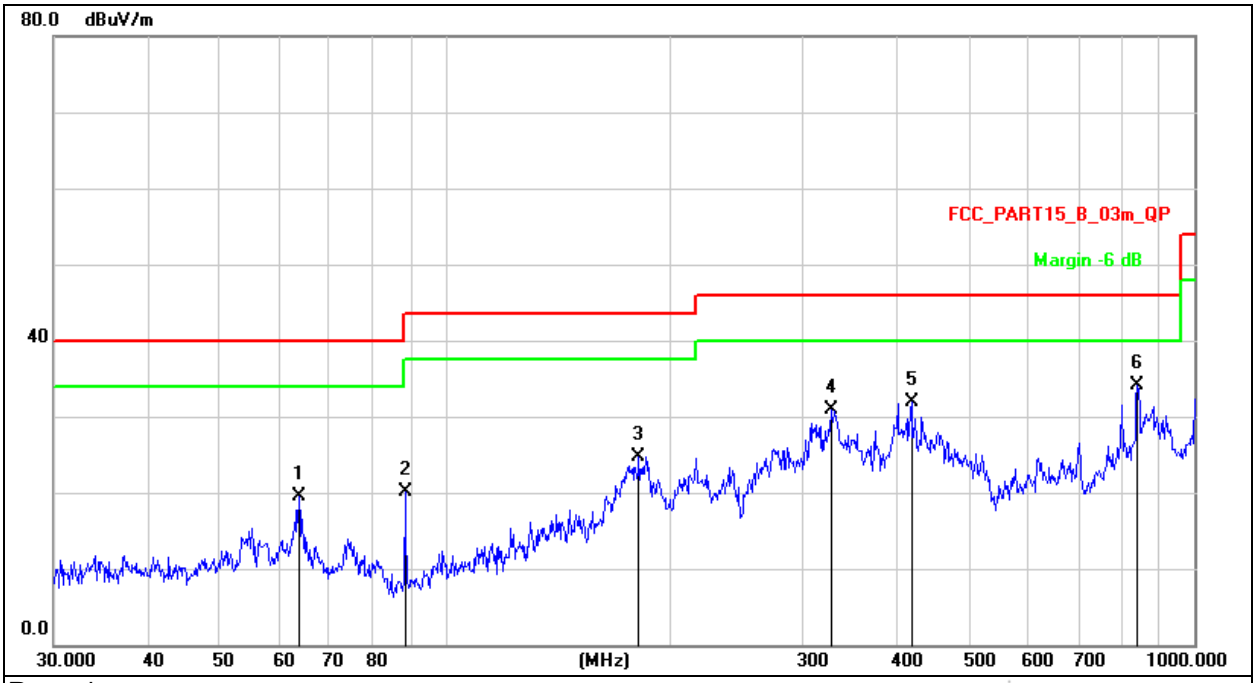
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 4	Test Voltage :	AC120V/60Hz



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		216.0240	47.65	-16.88	30.77	46.00	-15.23	QP
2		239.1473	48.28	-16.16	32.12	46.00	-13.88	QP
3		324.4561	49.22	-13.70	35.52	46.00	-10.48	QP
4		399.0302	42.26	-12.22	30.04	46.00	-15.96	QP
5		699.3046	39.95	-7.20	32.75	46.00	-13.25	QP
6	*	839.1818	41.93	-5.24	36.69	46.00	-9.31	QP

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 4	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		63.7588	37.71	-18.16	19.55	40.00	-20.45	QP
2		88.3421	39.66	-19.62	20.04	43.50	-23.46	QP
3		181.2834	43.44	-18.75	24.69	43.50	-18.81	QP
4		327.8873	44.39	-13.58	30.81	46.00	-15.19	QP
5		419.1081	43.83	-11.93	31.90	46.00	-14.10	QP
6	*	839.1818	39.32	-5.24	34.08	46.00	-11.92	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	4434.068	63.06	5.94	35.40	44.00	60.40	68.2	-7.80	PK
V	4434.068	43.51	5.94	35.40	44.00	40.85	54	-13.15	AV
V	10360.114	61.59	8.46	39.75	44.50	65.30	68.2	-2.90	PK
V	10360.114	43.36	8.46	39.75	44.50	47.07	54	-6.93	AV
V	15540.045	61.88	10.12	38.80	44.10	66.70	74	-7.30	PK
V	15540.045	43.90	10.12	38.80	42.70	50.12	54	-3.88	AV
H	4434.019	62.41	5.94	35.18	44.00	59.53	68.2	-8.67	PK
H	4434.019	43.71	5.94	35.18	44.00	40.83	54	-13.17	AV
H	10360.093	54.35	8.46	38.71	44.50	57.02	68.2	-11.18	PK
H	10360.093	44.57	8.46	38.71	44.50	47.24	54	-6.76	AV
H	15540.077	50.07	10.12	38.38	44.10	54.47	74	-19.53	PK
H	15540.077	41.11	10.12	38.38	44.10	45.51	54	-8.49	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.066	64.59	6.48	36.35	44.05	63.37	74	-10.63	PK
V	4592.066	43.15	6.48	36.35	44.05	41.93	54	-12.07	AV
V	10400.197	60.17	8.47	37.88	44.51	62.01	68.2	-6.19	PK
V	10400.197	43.38	8.47	37.88	44.51	45.22	54	-8.78	AV
V	15600.002	60.97	10.12	38.80	44.10	65.79	74	-8.21	PK
V	15600.002	43.53	10.12	38.80	42.70	49.75	54	-4.25	AV
H	4592.087	61.29	6.48	36.37	44.05	60.09	74	-13.91	PK
H	4592.087	43.29	6.48	36.37	44.05	42.09	54	-11.91	AV
H	10400.127	50.78	8.47	38.64	44.50	53.39	68.2	-14.81	PK
H	10400.127	44.81	8.47	38.64	44.50	47.42	54	-6.58	AV
H	15600.138	54.25	10.12	38.38	44.10	58.65	74	-15.35	PK
H	15600.138	40.76	10.12	38.38	44.10	45.16	54	-8.84	AV
High Channel (5240 MHz)-Above 1G									
V	4739.009	64.97	7.10	37.24	43.50	65.81	74	-8.19	PK
V	4739.009	43.28	7.10	37.24	43.50	44.12	54	-9.88	AV
V	10480.062	61.30	8.46	37.68	44.50	62.94	68.2	-5.26	PK
V	10480.062	43.13	8.46	37.68	44.50	44.77	54	-9.23	AV
V	15720.101	60.28	10.12	38.80	44.10	65.10	74	-8.90	PK
V	15720.101	43.95	10.12	38.80	42.70	50.17	54	-3.83	AV
H	4739.107	60.34	7.10	37.24	43.50	61.18	74	-12.82	PK
H	4739.107	43.85	7.10	37.24	43.50	44.69	54	-9.31	AV
H	10480.044	53.73	8.46	38.57	44.50	56.26	68.2	-11.94	PK
H	10480.044	41.53	8.46	38.57	44.50	44.06	54	-9.94	AV
H	15720.088	53.75	10.12	38.38	44.10	58.15	74	-15.85	PK
H	15720.088	40.32	10.12	38.38	44.10	44.72	54	-9.28	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	4434.017	64.15	5.94	35.40	44.00	61.49	68.2	-6.71	PK
V	4434.017	43.44	5.94	35.40	44.00	40.78	54	-13.22	AV
V	10360.056	63.44	8.46	39.75	44.50	67.15	68.2	-1.05	PK
V	10360.056	43.16	8.46	39.75	44.50	46.87	54	-7.13	AV
V	15540.138	62.80	10.12	38.80	44.10	67.62	74	-6.38	PK
V	15540.138	43.95	10.12	38.80	42.70	50.17	54	-3.83	AV
H	4434.006	62.83	5.94	35.18	44.00	59.95	68.2	-8.25	PK
H	4434.006	43.85	5.94	35.18	44.00	40.97	54	-13.03	AV
H	10360.169	51.62	8.46	38.71	44.50	54.29	68.2	-13.91	PK
H	10360.169	43.43	8.46	38.71	44.50	46.10	54	-7.90	AV
H	15540.047	52.55	10.12	38.38	44.10	56.95	74	-17.05	PK
H	15540.047	41.24	10.12	38.38	44.10	45.64	54	-8.36	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.069	64.44	6.48	36.35	44.05	63.22	74	-10.78	PK
V	4592.069	43.46	6.48	36.35	44.05	42.24	54	-11.76	AV
V	10400.074	63.02	8.47	37.88	44.51	64.86	68.2	-3.34	PK
V	10400.074	43.73	8.47	37.88	44.51	45.57	54	-8.43	AV
V	15600.070	60.68	10.12	38.80	44.10	65.50	74	-8.50	PK
V	15600.070	43.95	10.12	38.80	42.70	50.17	54	-3.83	AV
H	4592.069	61.15	6.48	36.37	44.05	59.95	74	-14.05	PK
H	4592.069	43.34	6.48	36.37	44.05	42.14	54	-11.86	AV
H	10400.166	53.62	8.47	38.64	44.50	56.23	68.2	-11.97	PK
H	10400.166	40.10	8.47	38.64	44.50	42.71	54	-11.29	AV
H	15600.165	52.80	10.12	38.38	44.10	57.20	74	-16.80	PK
H	15600.165	40.56	10.12	38.38	44.10	44.96	54	-9.04	AV
High Channel (5240 MHz)-Above 1G									
V	4739.187	60.60	7.10	37.24	43.50	61.44	74	-12.56	PK
V	4739.187	43.22	7.10	37.24	43.50	44.06	54	-9.94	AV
V	10480.012	62.78	8.46	37.68	44.50	64.42	68.2	-3.78	PK
V	10480.012	43.13	8.46	37.68	44.50	44.77	54	-9.23	AV
V	15720.030	64.95	10.12	38.80	44.10	69.77	74	-4.23	PK
V	15720.030	43.98	10.12	38.80	42.70	50.20	54	-3.80	AV
H	4739.070	64.47	7.10	37.24	43.50	65.31	74	-8.69	PK
H	4739.070	43.34	7.10	37.24	43.50	44.18	54	-9.82	AV
H	10480.106	53.91	8.46	38.57	44.50	56.44	68.2	-11.76	PK
H	10480.106	42.91	8.46	38.57	44.50	45.44	54	-8.56	AV
H	15720.036	53.97	10.12	38.38	44.10	58.37	74	-15.63	PK
H	15720.036	43.69	10.12	38.38	44.10	48.09	54	-5.91	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	4434.014	62.09	5.94	35.40	44.00	59.43	68.2	-8.77	PK
V	4434.014	43.67	5.94	35.40	44.00	41.01	54	-12.99	AV
V	10380.178	63.16	8.46	39.75	44.50	66.87	68.2	-1.33	PK
V	10380.178	43.56	8.46	39.75	44.50	47.27	54	-6.73	AV
V	15570.088	60.45	10.12	38.80	44.10	65.27	74	-8.73	PK
V	15570.088	43.73	10.12	38.80	42.70	49.95	54	-4.05	AV
H	4434.118	64.85	5.94	35.18	44.00	61.97	74	-12.03	PK
H	4434.118	43.97	5.94	35.18	44.00	41.09	54	-12.91	AV
H	10380.033	50.30	8.46	38.71	44.50	52.97	68.2	-15.23	PK
H	10380.033	43.03	8.46	38.71	44.50	45.70	54	-8.30	AV
H	15570.138	50.08	10.12	38.38	44.10	54.48	74	-19.52	PK
H	15570.138	42.08	10.12	38.38	44.10	46.48	54	-7.52	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.153	64.40	6.48	36.35	44.05	63.18	68.2	-5.02	PK
V	4739.153	43.99	6.48	36.35	44.05	42.77	54	-11.23	AV
V	10460.058	64.30	8.47	37.88	44.51	66.14	68.2	-2.06	PK
V	10460.058	43.16	8.47	37.88	44.51	45.00	54	-9.00	AV
V	15690.091	63.41	10.12	38.80	44.10	68.23	74	-5.77	PK
V	15690.091	43.24	10.12	38.80	42.70	49.46	54	-4.54	AV
H	4739.172	60.70	6.48	36.37	44.05	59.50	68.2	-8.70	PK
H	4739.172	43.08	6.48	36.37	44.05	41.88	54	-12.12	AV
H	10460.142	51.23	8.47	38.64	44.50	53.84	68.2	-14.36	PK
H	10460.142	41.89	8.47	38.64	44.50	44.50	54	-9.50	AV
H	15690.172	54.07	10.12	38.38	44.10	58.47	74	-15.53	PK
H	15690.172	44.63	10.12	38.38	44.10	49.03	54	-4.97	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	4434.193	63.46	5.94	35.40	44.00	60.80	68.2	-7.40	PK
V	4434.193	43.16	5.94	35.40	44.00	40.50	54	-13.50	AV
V	10360.115	60.90	8.46	39.75	44.50	64.61	68.2	-3.59	PK
V	10360.115	43.08	8.46	39.75	44.50	46.79	54	-7.21	AV
V	15540.136	62.19	10.12	38.80	44.10	67.01	74	-6.99	PK
V	15540.136	43.47	10.12	38.80	42.70	49.69	54	-4.31	AV
H	4434.196	61.20	5.94	35.18	44.00	58.32	68.2	-9.88	PK
H	4434.196	43.50	5.94	35.18	44.00	40.62	54	-13.38	AV
H	10360.111	54.08	8.46	38.71	44.50	56.75	68.2	-11.45	PK
H	10360.111	43.75	8.46	38.71	44.50	46.42	54	-7.58	AV
H	15540.130	53.88	10.12	38.38	44.10	58.28	74	-15.72	PK
H	15540.130	40.60	10.12	38.38	44.10	45.00	54	-9.00	AV
middle Channel (5200 MHz)-Above 1G									
V	4592.054	62.03	6.48	36.35	44.05	60.81	74	-13.19	PK
V	4592.054	43.03	6.48	36.35	44.05	41.81	54	-12.19	AV
V	10400.121	62.17	8.47	37.88	44.51	64.01	68.2	-4.19	PK
V	10400.121	43.11	8.47	37.88	44.51	44.95	54	-9.05	AV
V	15600.109	61.54	10.12	38.80	44.10	66.36	74	-7.64	PK
V	15600.109	43.83	10.12	38.80	42.70	50.05	54	-3.95	AV
H	4592.171	62.19	6.48	36.37	44.05	60.99	74	-13.01	PK
H	4592.171	43.05	6.48	36.37	44.05	41.85	54	-12.15	AV
H	10400.160	52.95	8.47	38.64	44.50	55.56	68.2	-12.64	PK
H	10400.160	40.43	8.47	38.64	44.50	43.04	54	-10.96	AV
H	15600.199	54.82	10.12	38.38	44.10	59.22	74	-14.78	PK
H	15600.199	40.22	10.12	38.38	44.10	44.62	54	-9.38	AV
High Channel (5240 MHz)-Above 1G									
V	4739.137	62.45	7.10	37.24	43.50	63.29	74	-10.71	PK
V	4739.137	43.40	7.10	37.24	43.50	44.24	54	-9.76	AV
V	10480.147	64.18	8.46	37.68	44.50	65.82	68.2	-2.38	PK
V	10480.147	43.08	8.46	37.68	44.50	44.72	54	-9.28	AV
V	15720.156	64.26	10.12	38.80	44.10	69.08	74	-4.92	PK
V	15720.156	43.32	10.12	38.80	42.70	49.54	54	-4.46	AV
H	4739.113	64.71	7.10	37.24	43.50	65.55	74	-8.45	PK
H	4739.113	43.89	7.10	37.24	43.50	44.73	54	-9.27	AV
H	10480.166	50.42	8.46	38.57	44.50	52.95	68.2	-15.25	PK
H	10480.166	43.17	8.46	38.57	44.50	45.70	54	-8.30	AV
H	15720.054	53.98	10.12	38.38	44.10	58.38	74	-15.62	PK
H	15720.054	41.57	10.12	38.38	44.10	45.97	54	-8.03	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	4434.027	61.13	5.94	35.40	44.00	58.47	68.2	-9.73	PK
V	4434.027	43.17	5.94	35.40	44.00	40.51	54	-13.49	AV
V	10380.082	63.35	8.46	39.75	44.50	67.06	68.2	-1.14	PK
V	10380.082	43.96	8.46	39.75	44.50	47.67	54	-6.33	AV
V	15570.127	61.86	10.12	38.80	44.10	66.68	74	-7.32	PK
V	15570.127	43.42	10.12	38.80	42.70	49.64	54	-4.36	AV
H	4434.120	62.51	5.94	35.18	44.00	59.63	74	-14.37	PK
H	4434.120	43.01	5.94	35.18	44.00	40.13	54	-13.87	AV
H	10380.125	54.15	8.46	38.71	44.50	56.82	68.2	-11.38	PK
H	10380.125	42.78	8.46	38.71	44.50	45.45	54	-8.55	AV
H	15570.082	53.13	10.12	38.38	44.10	57.53	74	-16.47	PK
H	15570.082	44.83	10.12	38.38	44.10	49.23	54	-4.77	AV
middle Channel (5230 MHz)-Above 1G									
V	4739.196	62.06	6.48	36.35	44.05	60.84	68.2	-7.36	PK
V	4739.196	43.65	6.48	36.35	44.05	42.43	54	-11.57	AV
V	10460.089	60.93	8.47	37.88	44.51	62.77	68.2	-5.43	PK
V	10460.089	43.01	8.47	37.88	44.51	44.85	54	-9.15	AV
V	15690.033	61.08	10.12	38.80	44.10	65.90	74	-8.10	PK
V	15690.033	43.42	10.12	38.80	42.70	49.64	54	-4.36	AV
H	4739.044	60.60	6.48	36.37	44.05	59.40	68.2	-8.80	PK
H	4739.044	43.36	6.48	36.37	44.05	42.16	54	-11.84	AV
H	10460.070	51.82	8.47	38.64	44.50	54.43	68.2	-13.77	PK
H	10460.070	44.74	8.47	38.64	44.50	47.35	54	-6.65	AV
H	15690.180	50.00	10.12	38.38	44.10	54.40	74	-19.60	PK
H	15690.180	44.80	10.12	38.38	44.10	49.20	54	-4.80	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	4434.021	64.24	5.94	35.40	44.00	61.58	68.2	-6.62	PK
V	4434.021	43.66	5.94	35.40	44.00	41.00	54	-13.00	AV
V	10420.013	63.90	8.46	39.75	44.50	67.61	68.2	-0.59	PK
V	10420.013	43.31	8.46	39.75	44.50	47.02	54	-6.98	AV
V	15630.014	61.90	10.12	38.80	44.10	66.72	74	-7.28	PK
V	15630.014	43.62	10.12	38.80	42.70	49.84	54	-4.16	AV
H	4434.197	63.13	5.94	35.18	44.00	60.25	68.2	-7.95	PK
H	4434.197	43.53	5.94	35.18	44.00	40.65	54	-13.35	AV
H	10420.034	52.91	8.46	38.71	44.50	55.58	68.2	-12.62	PK
H	10420.034	42.63	8.46	38.71	44.50	45.30	54	-8.70	AV
H	15630.176	51.00	10.12	38.38	44.10	55.40	74	-18.60	PK
H	15630.176	42.78	10.12	38.38	44.10	47.18	54	-6.82	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	4679.181	56.20	5.94	35.40	44.00	53.54	74	-20.46	PK
V	4679.181	43.65	5.94	35.40	44.00	40.99	54	-13.01	AV
V	11490.135	55.32	8.46	39.75	44.50	59.03	68.2	-9.17	PK
V	11490.135	43.67	8.46	39.75	44.50	47.38	54	-6.62	AV
V	17235.059	57.19	10.12	38.80	44.10	62.01	68.2	-6.19	PK
V	17235.059	43.84	10.12	38.80	42.70	50.06	54	-3.94	AV
H	4679.066	57.31	5.94	35.18	44.00	54.43	74	-19.57	PK
H	4679.066	43.35	5.94	35.18	44.00	40.47	54	-13.53	AV
H	11490.190	52.57	8.46	38.71	44.50	55.24	68.2	-12.96	PK
H	11490.190	41.26	8.46	38.71	44.50	43.93	54	-10.07	AV
H	17235.085	54.80	10.12	38.38	44.10	59.20	68.2	-9.00	PK
H	17235.085	40.62	10.12	38.38	44.10	45.02	54	-8.98	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.180	56.68	6.48	36.35	44.05	55.46	74	-18.54	PK
V	4592.180	43.59	6.48	36.35	44.05	42.37	54	-11.63	AV
V	11570.099	55.87	8.47	37.88	44.51	57.71	68.2	-10.49	PK
V	11570.099	43.59	8.47	37.88	44.51	45.43	54	-8.57	AV
V	17355.182	58.87	10.12	38.80	44.10	63.69	68.2	-4.51	PK
V	17355.182	39.77	10.12	38.80	42.70	45.99	54	-8.01	AV
H	4592.052	56.99	6.48	36.37	44.05	55.79	74	-18.21	PK
H	4592.052	43.75	6.48	36.37	44.05	42.55	54	-11.45	AV
H	11570.031	52.84	8.47	38.64	44.50	55.45	68.2	-12.75	PK
H	11570.031	41.74	8.47	38.64	44.50	44.35	54	-9.65	AV
H	17355.118	54.50	10.12	38.38	44.10	58.90	68.2	-9.30	PK
H	17355.118	40.11	10.12	38.38	44.10	44.51	54	-9.49	AV
High Channel (5825 MHz)-Above 1G									
V	6039.056	60.34	7.10	37.24	43.50	61.18	68.2	-7.02	PK
V	6039.056	43.09	7.10	37.24	43.50	43.93	54	-10.07	AV
V	11650.083	61.38	8.46	37.68	44.50	63.02	74	-10.98	PK
V	11650.083	43.91	8.46	37.68	44.50	45.55	54	-8.45	AV
V	17475.129	57.50	10.12	38.80	44.10	62.32	68.2	-5.88	PK
V	17475.129	43.92	10.12	38.80	42.70	50.14	54	-3.86	AV
H	6039.173	54.17	7.10	37.24	43.50	55.01	68.2	-13.19	PK
H	6039.173	43.51	7.10	37.24	43.50	44.35	54	-9.65	AV
H	11650.017	52.49	8.46	38.57	44.50	55.02	74	-18.98	PK
H	11650.017	40.56	8.46	38.57	44.50	43.09	54	-10.91	AV
H	17475.134	54.48	10.12	38.38	44.10	58.88	68.2	-9.32	PK
H	17475.134	43.59	10.12	38.38	44.10	47.99	54	-6.01	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	4679.171	57.65	5.94	35.40	44.00	54.99	74	-19.01	PK
V	4679.171	43.20	5.94	35.40	44.00	40.54	54	-13.46	AV
V	11490.132	56.27	8.46	39.75	44.50	59.98	68.2	-8.22	PK
V	11490.132	43.91	8.46	39.75	44.50	47.62	54	-6.38	AV
V	17235.130	58.61	10.12	38.80	44.10	63.43	68.2	-4.77	PK
V	17235.130	43.78	10.12	38.80	42.70	50.00	54	-4.00	AV
H	4679.059	60.83	5.94	35.18	44.00	57.95	74	-16.05	PK
H	4679.059	43.05	5.94	35.18	44.00	40.17	54	-13.83	AV
H	11490.160	49.11	8.46	38.71	44.50	51.78	68.2	-16.42	PK
H	11490.160	44.63	8.46	38.71	44.50	47.30	54	-6.70	AV
H	17235.174	54.39	10.12	38.38	44.10	58.79	68.2	-9.41	PK
H	17235.174	41.03	10.12	38.38	44.10	45.43	54	-8.57	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.074	58.35	6.48	36.35	44.05	57.13	74	-16.87	PK
V	4592.074	43.64	6.48	36.35	44.05	42.42	54	-11.58	AV
V	11570.149	58.74	8.47	37.88	44.51	60.58	68.2	-7.62	PK
V	11570.149	43.84	8.47	37.88	44.51	45.68	54	-8.32	AV
V	17355.109	58.31	10.12	38.80	44.10	63.13	68.2	-5.07	PK
V	17355.109	43.98	10.12	38.80	42.70	50.20	54	-3.80	AV
H	4592.035	57.28	6.48	36.37	44.05	56.08	74	-17.92	PK
H	4592.035	43.41	6.48	36.37	44.05	42.21	54	-11.79	AV
H	11570.078	53.39	8.47	38.64	44.50	56.00	68.2	-12.20	PK
H	11570.078	42.71	8.47	38.64	44.50	45.32	54	-8.68	AV
H	17355.165	52.64	10.12	38.38	44.10	57.04	68.2	-11.16	PK
H	17355.165	40.39	10.12	38.38	44.10	44.79	54	-9.21	AV
High Channel (5825 MHz)-Above 1G									
V	6039.077	56.03	7.10	37.24	43.50	56.87	68.2	-11.33	PK
V	6039.077	43.05	7.10	37.24	43.50	43.89	54	-10.11	AV
V	11650.056	56.46	8.46	37.68	44.50	58.10	74	-15.90	PK
V	11650.056	43.09	8.46	37.68	44.50	44.73	54	-9.27	AV
V	17475.111	57.42	10.12	38.80	44.10	62.24	68.2	-5.96	PK
V	17475.111	43.29	10.12	38.80	42.70	49.51	54	-4.49	AV
H	6039.155	59.25	7.10	37.24	43.50	60.09	68.2	-8.11	PK
H	6039.155	43.05	7.10	37.24	43.50	43.89	54	-10.11	AV
H	11650.106	50.79	8.46	38.57	44.50	53.32	74	-20.68	PK
H	11650.106	41.13	8.46	38.57	44.50	43.66	54	-10.34	AV
H	17475.165	50.00	10.12	38.38	44.10	54.40	68.2	-13.80	PK
H	17475.165	43.41	10.12	38.38	44.10	47.81	54	-6.19	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	4679.087	58.37	5.94	35.40	44.00	55.71	74	-18.29	PK
V	4679.087	43.79	5.94	35.40	44.00	41.13	54	-12.87	AV
V	11510.031	56.13	8.46	39.75	44.50	59.84	74	-14.16	PK
V	11510.031	43.09	8.46	39.75	44.50	46.80	54	-7.20	AV
V	17265.072	58.73	10.12	38.80	44.10	63.55	68.2	-4.65	PK
V	17265.072	43.46	10.12	38.80	42.70	49.68	54	-4.32	AV
H	4679.110	57.15	5.94	35.18	44.00	54.27	74	-19.73	PK
H	4679.110	43.04	5.94	35.18	44.00	40.16	54	-13.84	AV
H	11510.071	51.33	8.46	38.71	44.50	54.00	74	-20.00	PK
H	11510.071	41.35	8.46	38.71	44.50	44.02	54	-9.98	AV
H	17265.149	52.49	10.12	38.38	44.10	56.89	68.2	-11.31	PK
H	17265.149	41.52	10.12	38.38	44.10	45.92	54	-8.08	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.110	58.37	6.48	36.35	44.05	57.15	68.2	-11.05	PK
V	6039.110	43.39	6.48	36.35	44.05	42.17	54	-11.83	AV
V	11590.075	59.12	8.47	37.88	44.51	60.96	74	-13.04	PK
V	11590.075	43.54	8.47	37.88	44.51	45.38	54	-8.62	AV
V	17385.075	55.68	10.12	38.80	44.10	60.50	68.2	-7.70	PK
V	17385.075	41.27	10.12	38.80	42.70	47.49	54	-6.51	AV
H	6039.111	57.63	6.48	36.37	44.05	56.43	68.2	-11.77	PK
H	6039.111	43.58	6.48	36.37	44.05	42.38	54	-11.62	AV
H	11590.188	51.92	8.47	38.64	44.50	54.53	74	-19.47	PK
H	11590.188	42.97	8.47	38.64	44.50	45.58	54	-8.42	AV
H	17385.175	50.08	10.12	38.38	44.10	54.48	68.2	-13.72	PK
H	17385.175	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 (5.8G) --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	4679.181	56.38	5.94	35.40	44.00	53.72	74	-20.28	PK
V	4679.181	43.95	5.94	35.40	44.00	41.29	54	-12.71	AV
V	11490.108	56.37	8.46	39.75	44.50	60.08	68.2	-8.12	PK
V	11490.108	43.75	8.46	39.75	44.50	47.46	54	-6.54	AV
V	17235.078	61.78	10.12	38.80	44.10	66.60	68.2	-1.60	PK
V	17235.078	43.11	10.12	38.80	42.70	49.33	54	-4.67	AV
H	4679.187	56.31	5.94	35.18	44.00	53.43	74	-20.57	PK
H	4679.187	43.52	5.94	35.18	44.00	40.64	54	-13.36	AV
H	11490.106	48.31	8.46	38.71	44.50	50.98	68.2	-17.22	PK
H	11490.106	40.05	8.46	38.71	44.50	42.72	54	-11.28	AV
H	17235.025	53.00	10.12	38.38	44.10	57.40	68.2	-10.80	PK
H	17235.025	40.14	10.12	38.38	44.10	44.54	54	-9.46	AV
middle Channel (5785 MHz)-Above 1G									
V	4592.085	59.13	6.48	36.35	44.05	57.91	74	-16.09	PK
V	4592.085	43.03	6.48	36.35	44.05	41.81	54	-12.19	AV
V	11570.086	55.95	8.47	37.88	44.51	57.79	68.2	-10.41	PK
V	11570.086	43.89	8.47	37.88	44.51	45.73	54	-8.27	AV
V	17355.090	58.44	10.12	38.80	44.10	63.26	68.2	-4.94	PK
V	17355.090	43.95	10.12	38.80	42.70	50.17	54	-3.83	AV
H	4592.025	60.57	6.48	36.37	44.05	59.37	74	-14.63	PK
H	4592.025	43.58	6.48	36.37	44.05	42.38	54	-11.62	AV
H	11570.081	54.37	8.47	38.64	44.50	56.98	68.2	-11.22	PK
H	11570.081	44.31	8.47	38.64	44.50	46.92	54	-7.08	AV
H	17355.100	53.99	10.12	38.38	44.10	58.39	68.2	-9.81	PK
H	17355.100	40.29	10.12	38.38	44.10	44.69	54	-9.31	AV
High Channel (5825 MHz)-Above 1G									
V	6039.164	56.07	7.10	37.24	43.50	56.91	68.2	-11.29	PK
V	6039.164	44.00	7.10	37.24	43.50	44.84	54	-9.16	AV
V	11650.094	58.87	8.46	37.68	44.50	60.51	74	-13.49	PK
V	11650.094	43.86	8.46	37.68	44.50	45.50	54	-8.50	AV
V	17475.066	57.59	10.12	38.80	44.10	62.41	68.2	-5.79	PK
V	17475.066	43.53	10.12	38.80	42.70	49.75	54	-4.25	AV
H	6039.011	55.71	7.10	37.24	43.50	56.55	68.2	-11.65	PK
H	6039.011	43.58	7.10	37.24	43.50	44.42	54	-9.58	AV
H	11650.124	54.21	8.46	38.57	44.50	56.74	74	-17.26	PK
H	11650.124	41.42	8.46	38.57	44.50	43.95	54	-10.05	AV
H	17475.092	53.84	10.12	38.38	44.10	58.24	68.2	-9.96	PK
H	17475.092	41.02	10.12	38.38	44.10	45.42	54	-8.58	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	4679.103	59.35	5.94	35.40	44.00	56.69	74	-17.31	PK
V	4679.103	43.95	5.94	35.40	44.00	41.29	54	-12.71	AV
V	11510.129	56.22	8.46	39.75	44.50	59.93	74	-14.07	PK
V	11510.129	43.99	8.46	39.75	44.50	47.70	54	-6.30	AV
V	17265.093	57.87	10.12	38.80	44.10	62.69	68.2	-5.51	PK
V	17265.093	43.97	10.12	38.80	42.70	50.19	54	-3.81	AV
H	4679.121	56.30	5.94	35.18	44.00	53.42	74	-20.58	PK
H	4679.121	43.69	5.94	35.18	44.00	40.81	54	-13.19	AV
H	11510.018	53.81	8.46	38.71	44.50	56.48	74	-17.52	PK
H	11510.018	40.10	8.46	38.71	44.50	42.77	54	-11.23	AV
H	17265.166	51.12	10.12	38.38	44.10	55.52	68.2	-12.68	PK
H	17265.166	43.87	10.12	38.38	44.10	48.27	54	-5.73	AV
middle Channel (5795 MHz)-Above 1G									
V	6039.095	56.16	6.48	36.35	44.05	54.94	68.2	-13.26	PK
V	6039.095	43.30	6.48	36.35	44.05	42.08	54	-11.92	AV
V	11590.062	55.85	8.47	37.88	44.51	57.69	74	-16.31	PK
V	11590.062	43.54	8.47	37.88	44.51	45.38	54	-8.62	AV
V	17385.050	55.37	10.12	38.80	44.10	60.19	68.2	-8.01	PK
V	17385.050	41.06	10.12	38.80	42.70	47.28	54	-6.72	AV
H	6039.059	56.50	6.48	36.37	44.05	55.30	68.2	-12.90	PK
H	6039.059	43.11	6.48	36.37	44.05	41.91	54	-12.09	AV
H	11590.154	54.87	8.47	38.64	44.50	57.48	74	-16.52	PK
H	11590.154	41.12	8.47	38.64	44.50	43.73	54	-10.27	AV
H	17385.119	51.38	10.12	38.38	44.10	55.78	68.2	-12.42	PK
H	17385.119	42.93	10.12	38.38	44.10	47.33	54	-6.67	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.

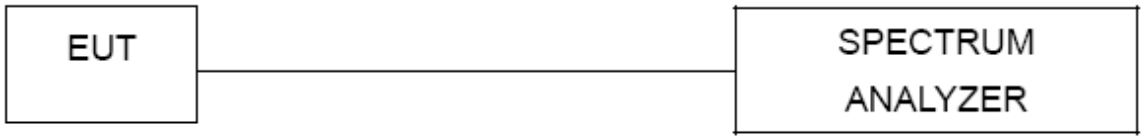
Test Mode :	TX (5.8G) -- 802.11ac 80

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	4679.153	59.40	5.94	35.40	44.00	56.74	74	-17.26	PK
V	4679.153	43.36	5.94	35.40	44.00	40.70	54	-13.30	AV
V	11550.041	58.28	8.46	39.75	44.50	61.99	74	-12.01	PK
V	11550.041	42.06	8.46	39.75	44.50	45.77	54	-8.23	AV
V	17325.063	56.35	10.12	38.80	44.10	61.17	68.2	-7.03	PK
V	17325.063	41.89	10.12	38.80	42.70	48.11	54	-5.89	AV
H	4679.110	58.23	5.94	35.18	44.00	55.35	74	-18.65	PK
H	4679.110	43.20	5.94	35.18	44.00	40.32	54	-13.68	AV
H	11550.040	53.58	8.46	38.71	44.50	56.25	74	-17.75	PK
H	11550.040	43.80	8.46	38.71	44.50	46.47	54	-7.53	AV
H	17325.149	52.48	10.12	38.38	44.10	56.88	68.2	-11.32	PK
H	17325.149	42.12	10.12	38.38	44.10	46.52	54	-7.48	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.

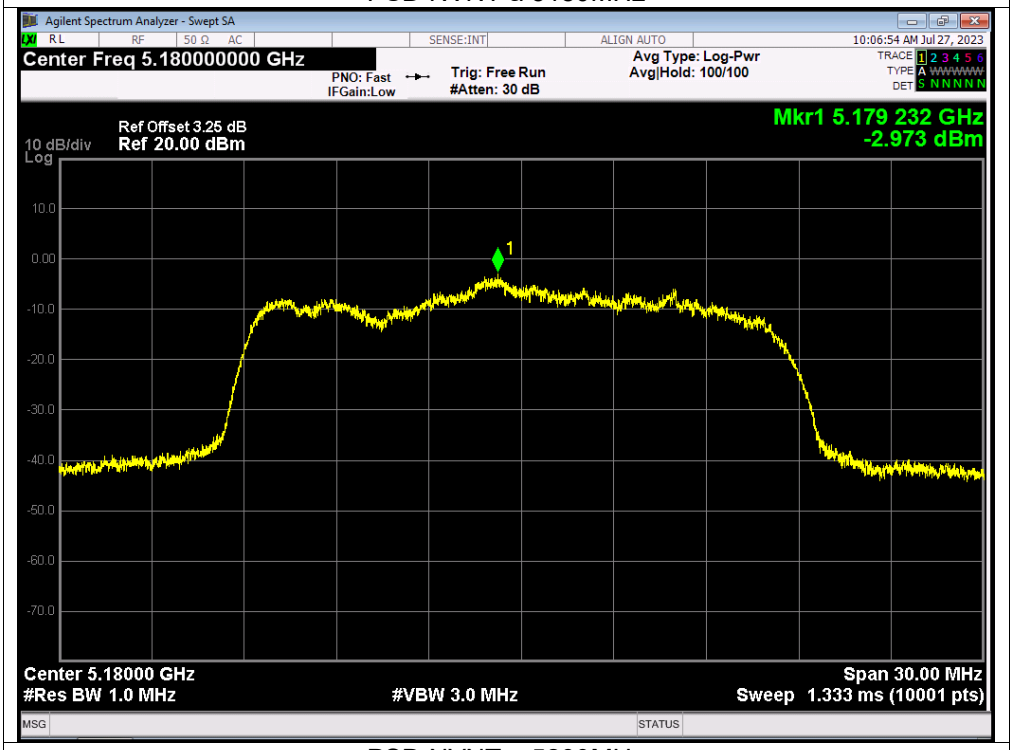
8.5 Test Result

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

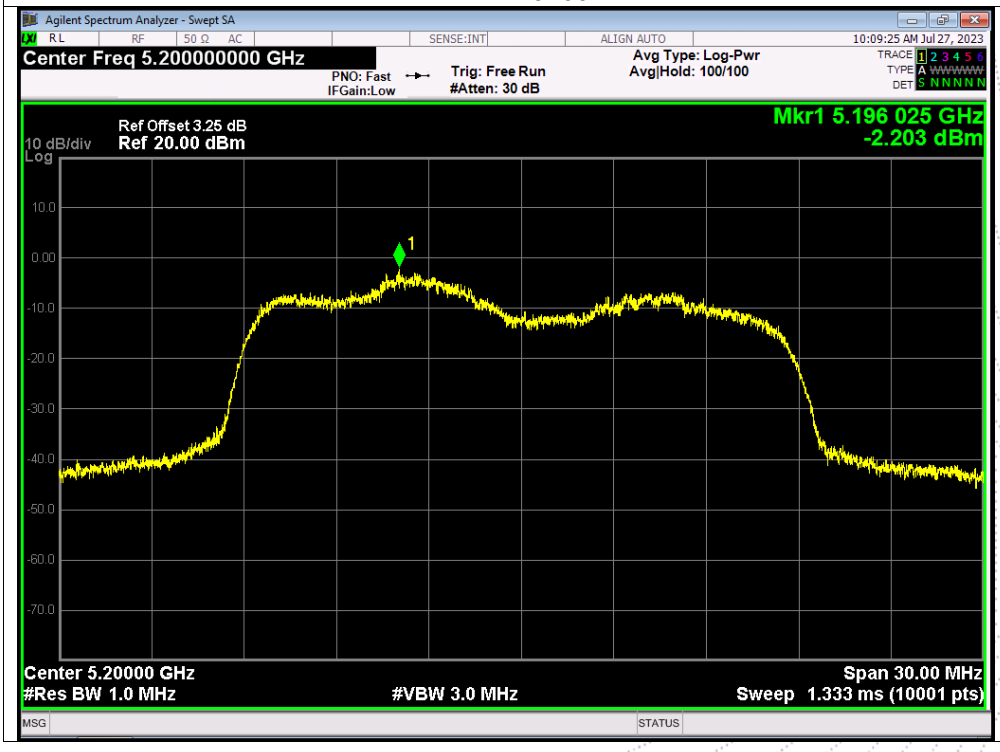
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/1MHz)	Limit (dBm/1MHz)	Verdict
NVNT	a	5180	-2.97	11	Pass
NVNT	a	5200	-2.2	11	Pass
NVNT	a	5240	-5.22	11	Pass
NVNT	n20	5180	-7.58	11	Pass
NVNT	n20	5200	-8.78	11	Pass
NVNT	n20	5240	-9.18	11	Pass
NVNT	n40	5190	-13.73	11	Pass
NVNT	n40	5230	-13.19	11	Pass
NVNT	ac20	5180	-7.36	11	Pass
NVNT	ac20	5200	-6.17	11	Pass
NVNT	ac20	5240	-7.13	11	Pass
NVNT	ac40	5190	-15.07	11	Pass
NVNT	ac40	5230	-11.9	11	Pass
NVNT	ac80	5210	-24.13	11	Pass

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	-4.23	30	Pass
NVNT	a	5785	-9.05	30	Pass
NVNT	a	5825	-8.54	30	Pass
NVNT	n20	5745	-9.51	30	Pass
NVNT	n20	5785	-9.87	30	Pass
NVNT	n20	5825	-6.94	30	Pass
NVNT	n40	5755	-15.86	30	Pass
NVNT	n40	5795	-17.89	30	Pass
NVNT	ac20	5745	-9.58	30	Pass
NVNT	ac20	5785	-10.17	30	Pass
NVNT	ac20	5825	-9.98	30	Pass
NVNT	ac40	5755	-16.31	30	Pass
NVNT	ac40	5795	-16.08	30	Pass
NVNT	ac80	5775	-24.97	30	Pass

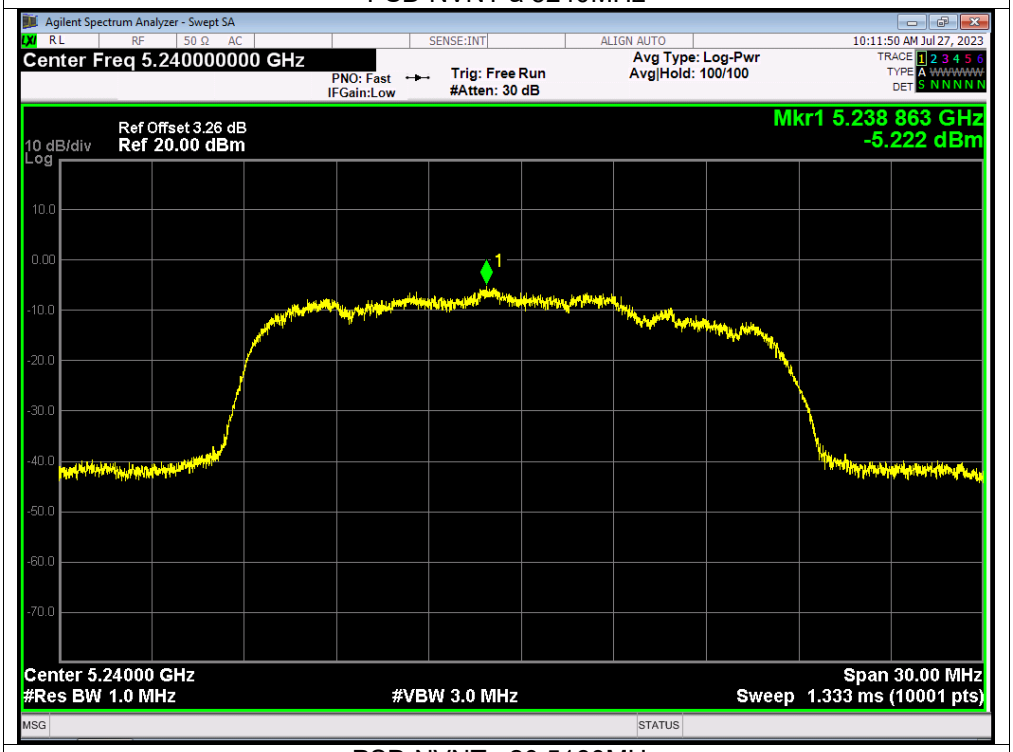
Test Graphs
PSD NVNT a 5180MHz



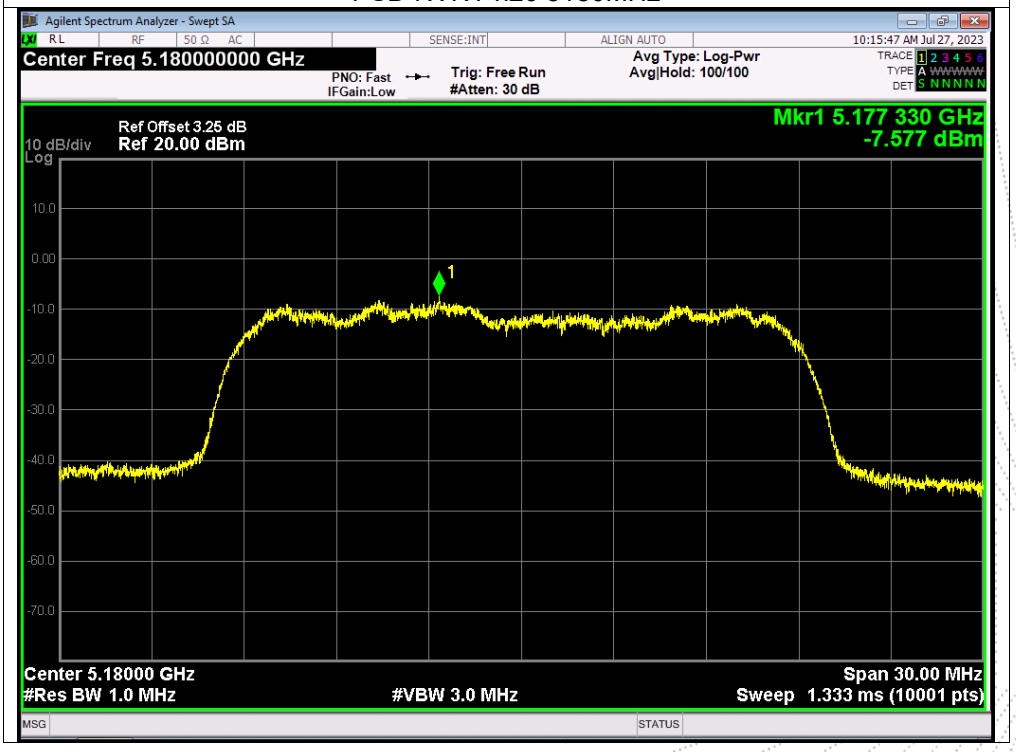
PSD NVNT a 5200MHz



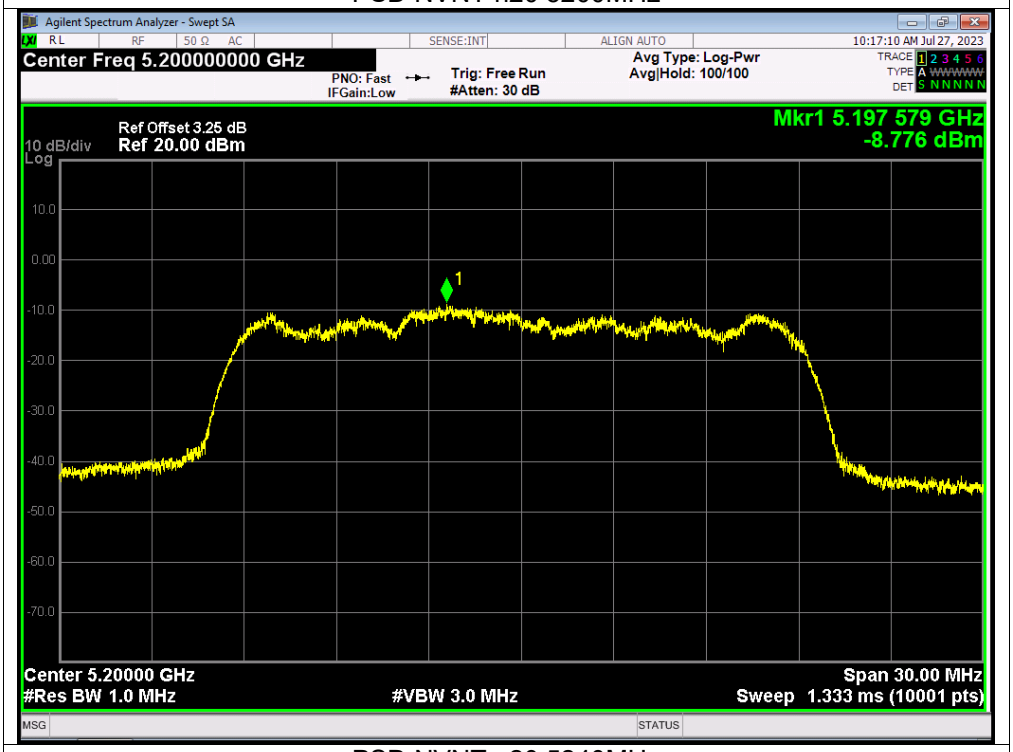
PSD NVNT a 5240MHz



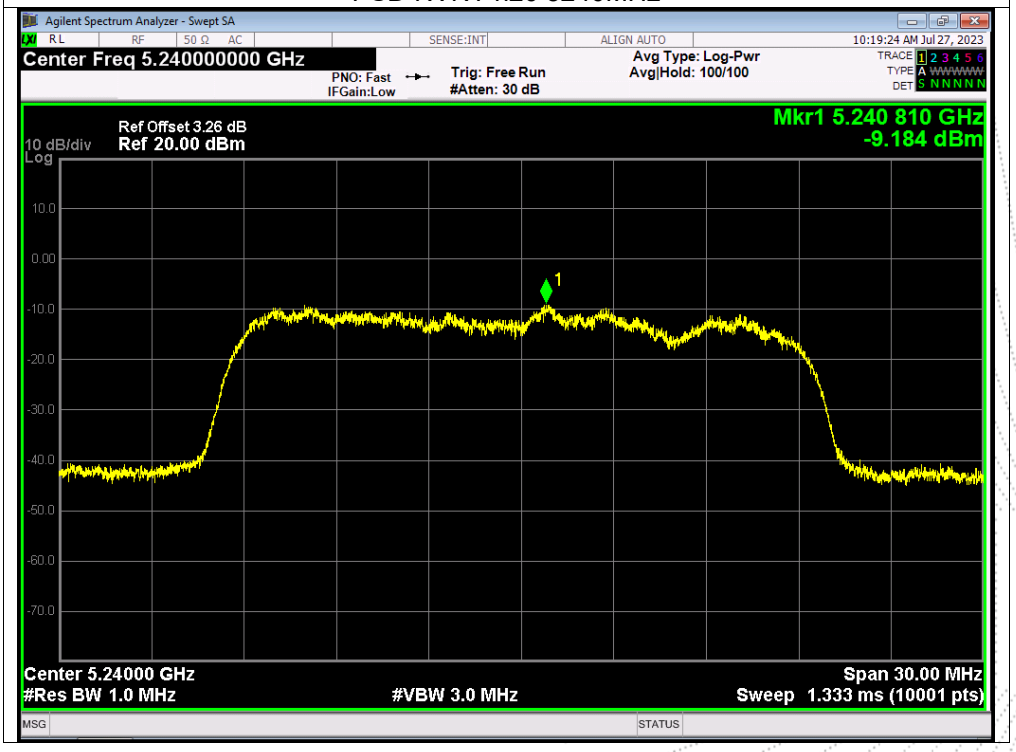
PSD NVNT n20 5180MHz



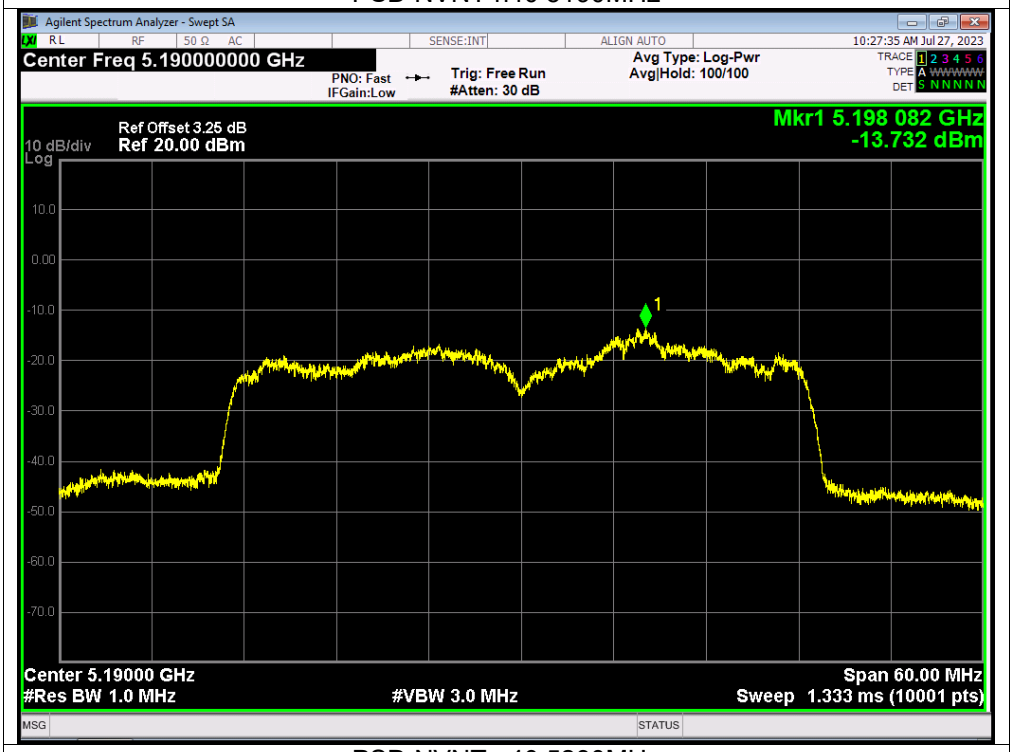
PSD NVNT n20 5200MHz



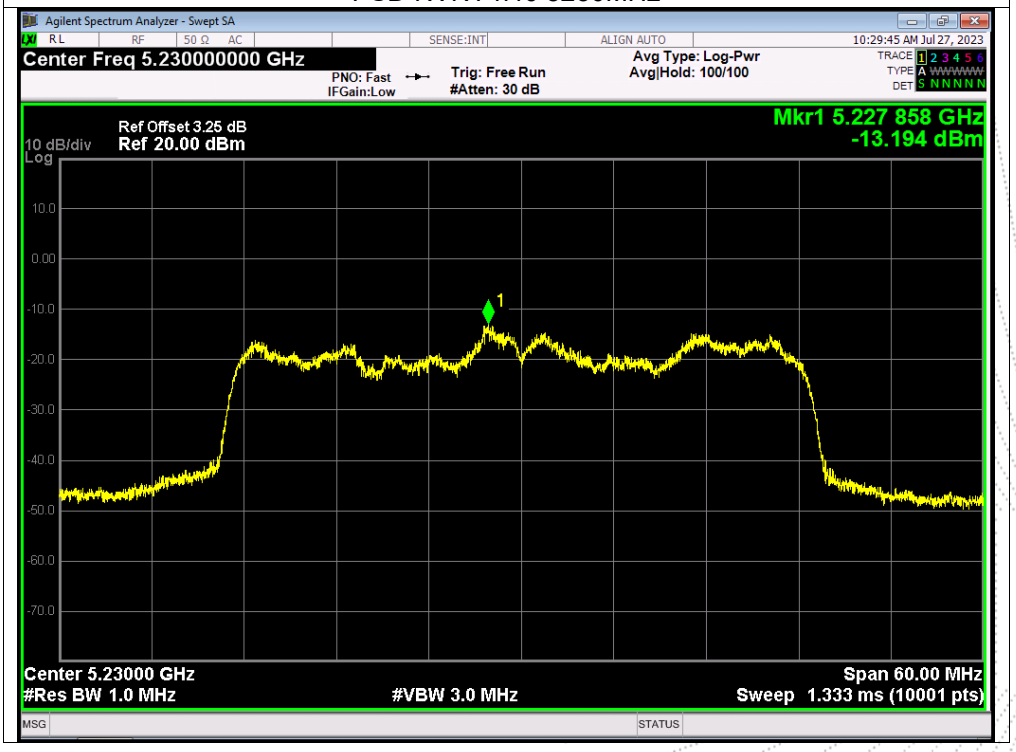
PSD NVNT n20 5240MHz



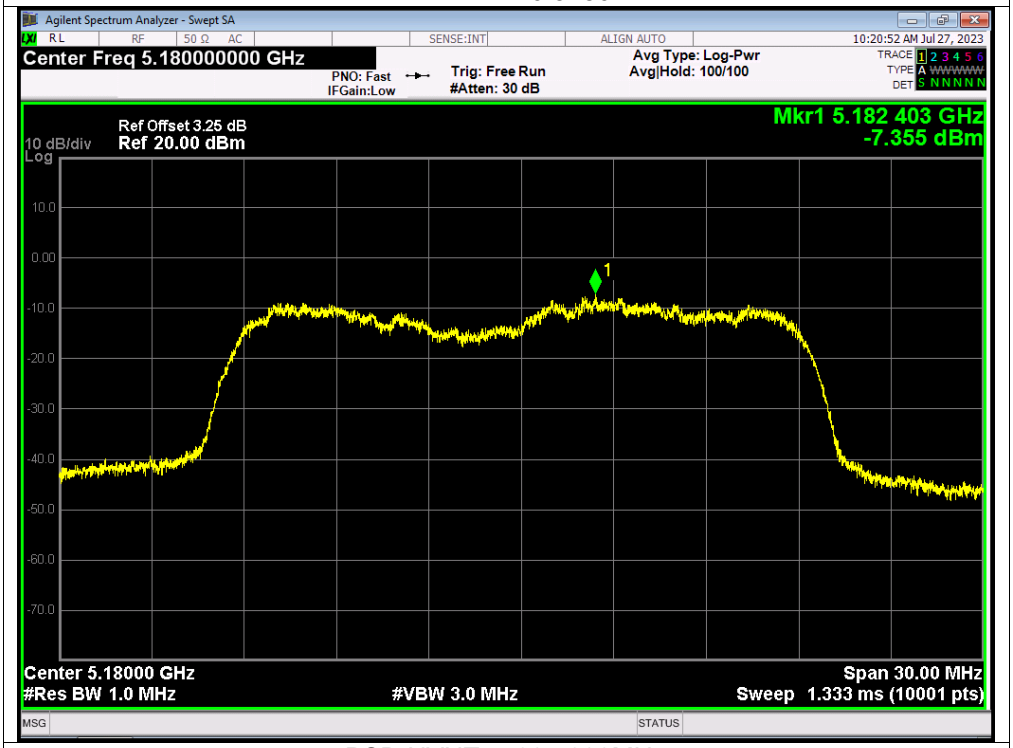
PSD NVNT n40 5190MHz



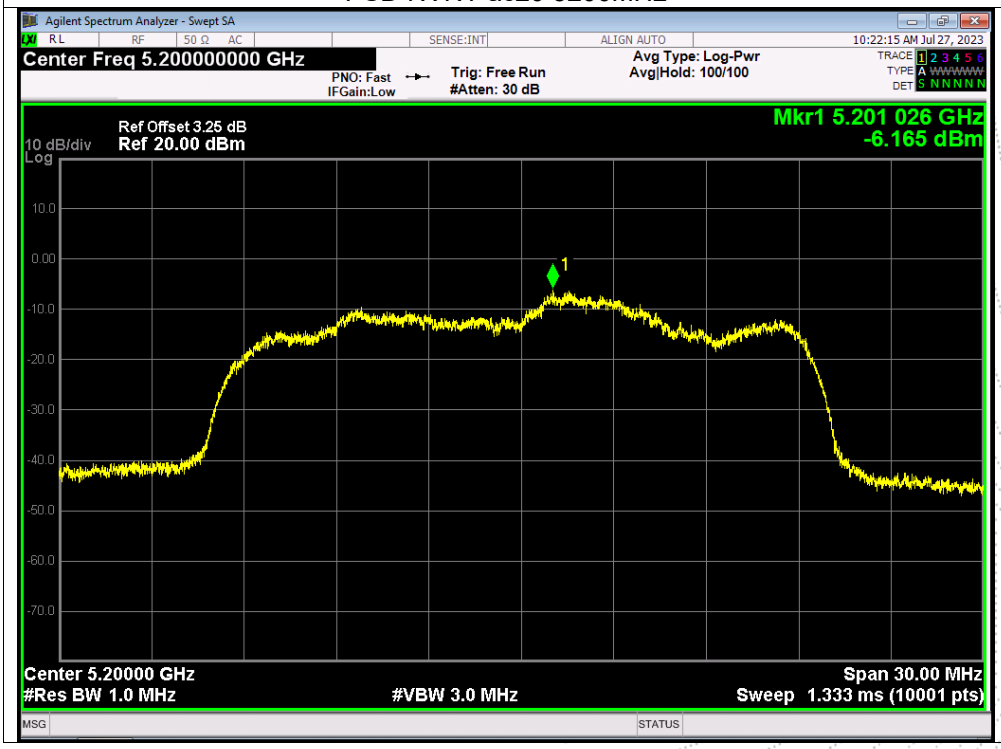
PSD NVNT n40 5230MHz



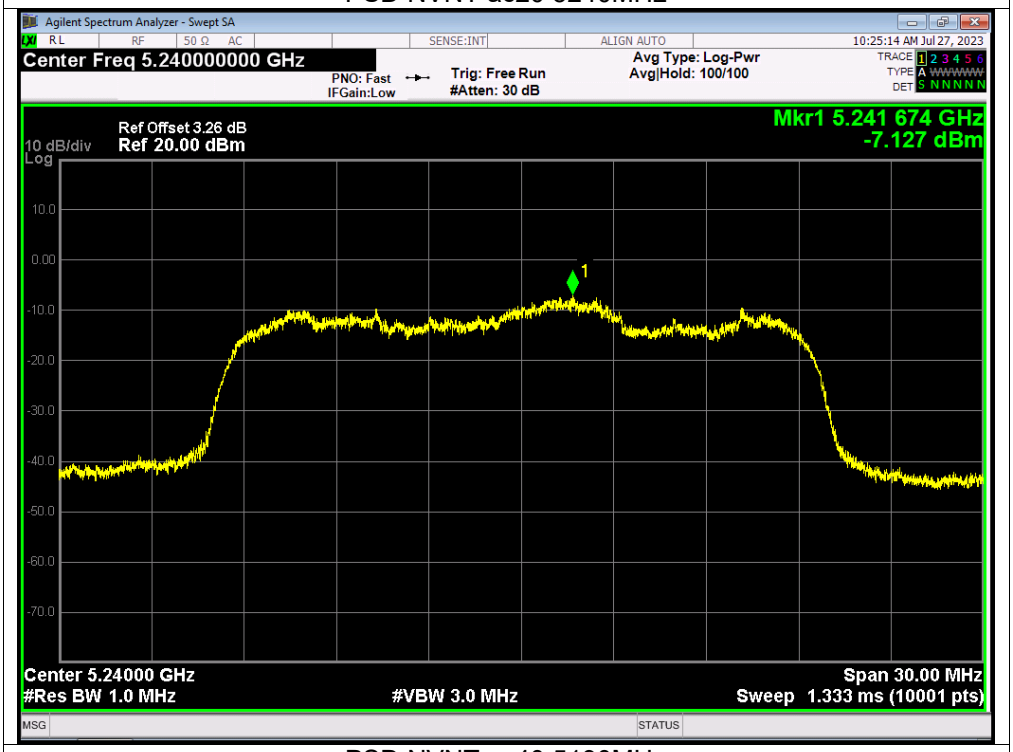
PSD NVNT ac20 5180MHz



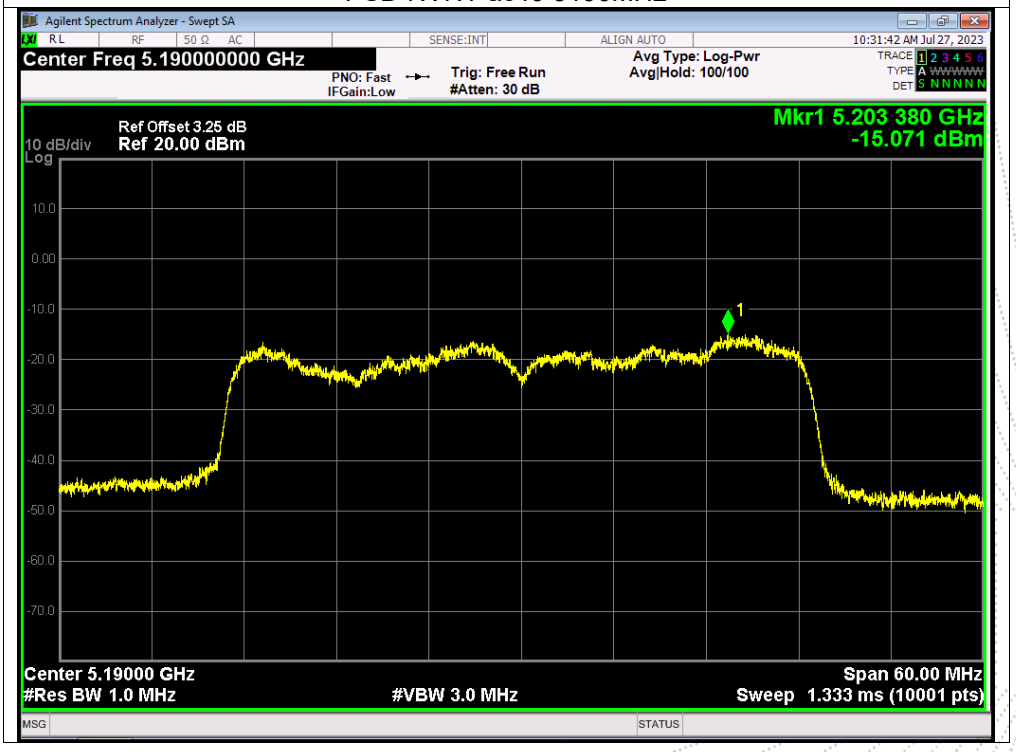
PSD NVNT ac20 5200MHz



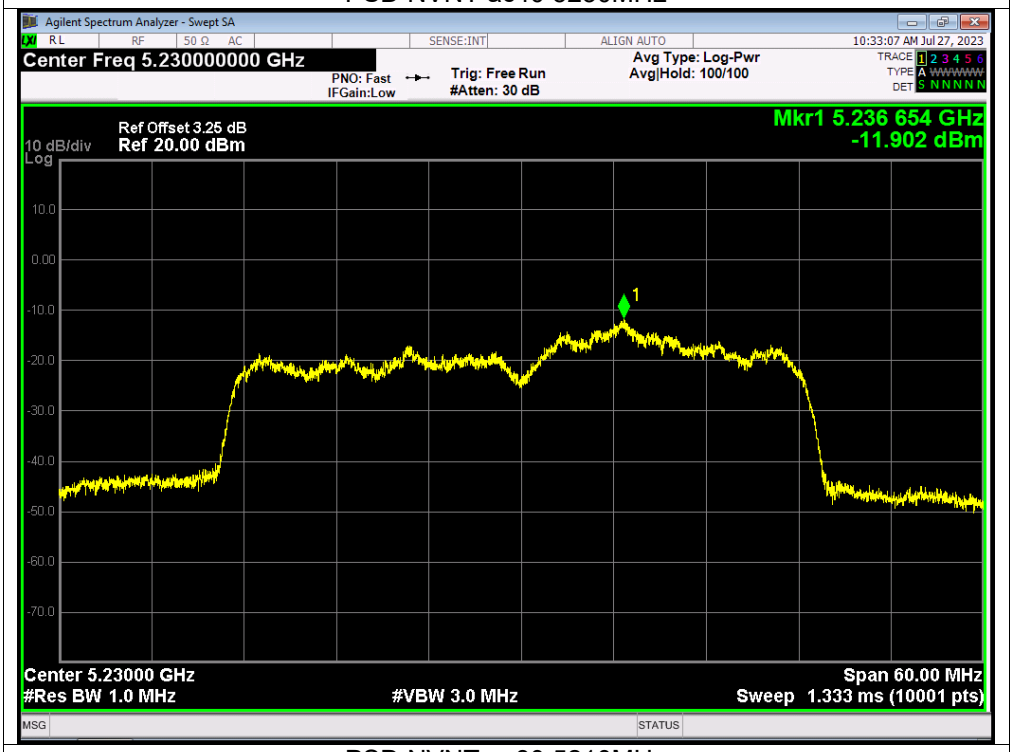
PSD NVNT ac20 5240MHz



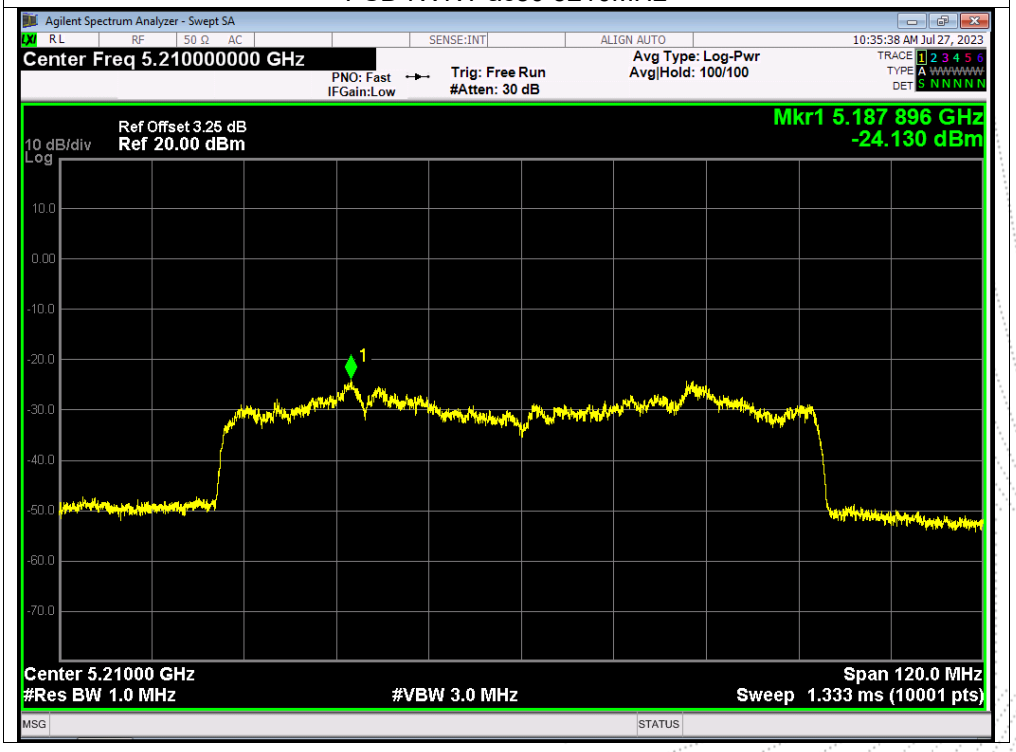
PSD NVNT ac40 5190MHz



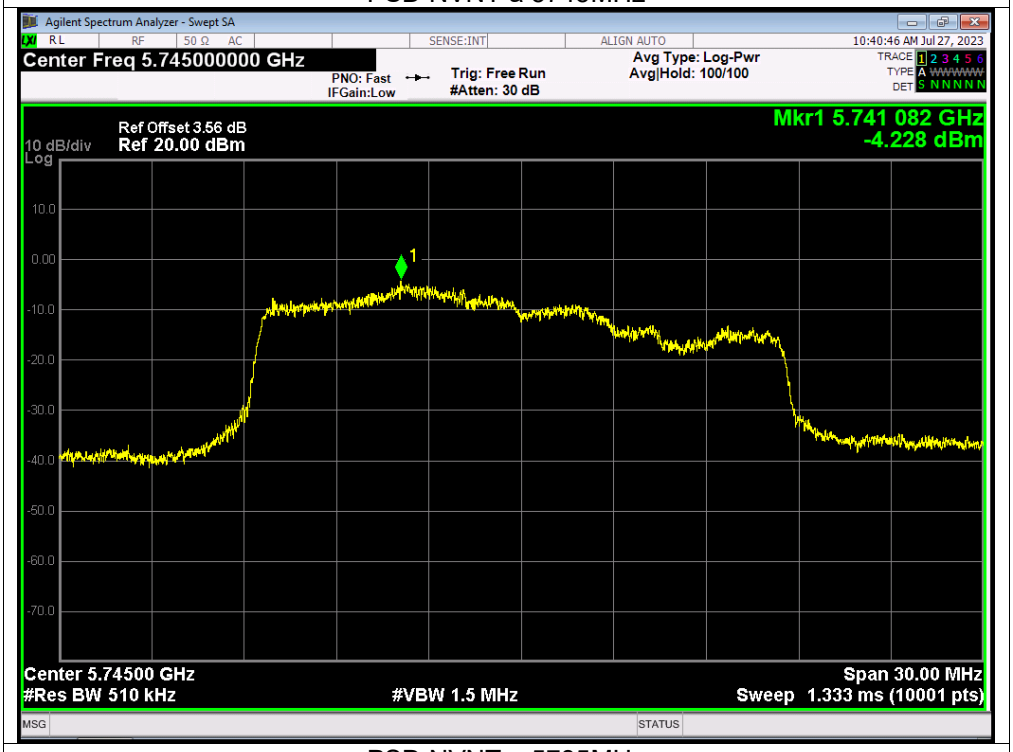
PSD NVNT ac40 5230MHz



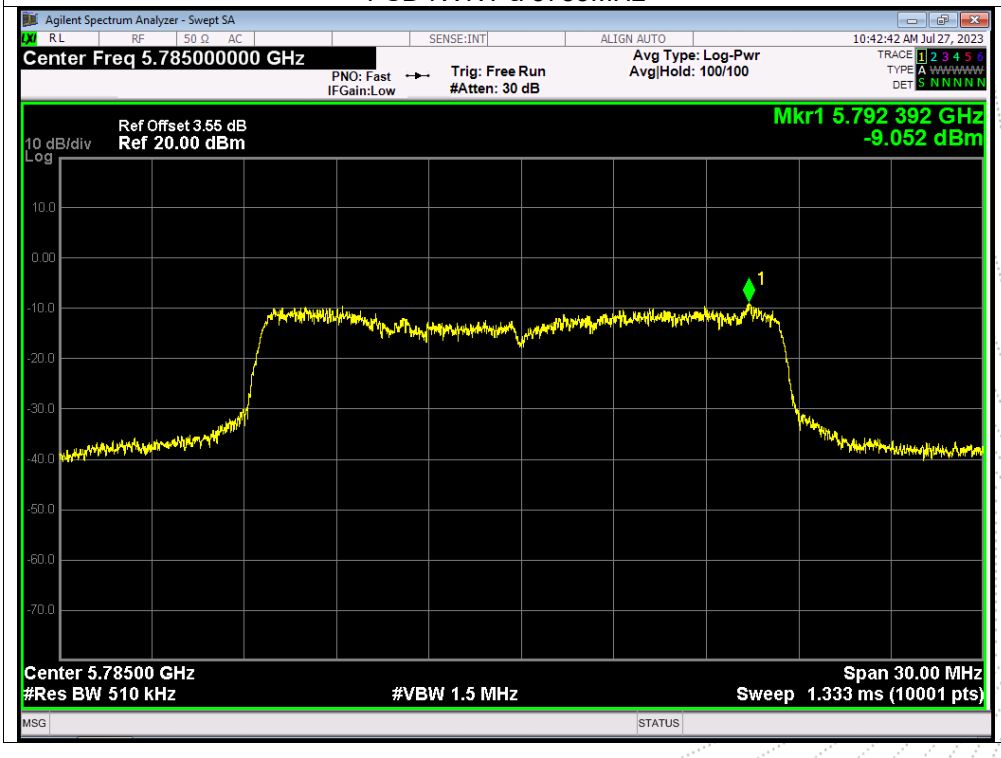
PSD NVNT ac80 5210MHz



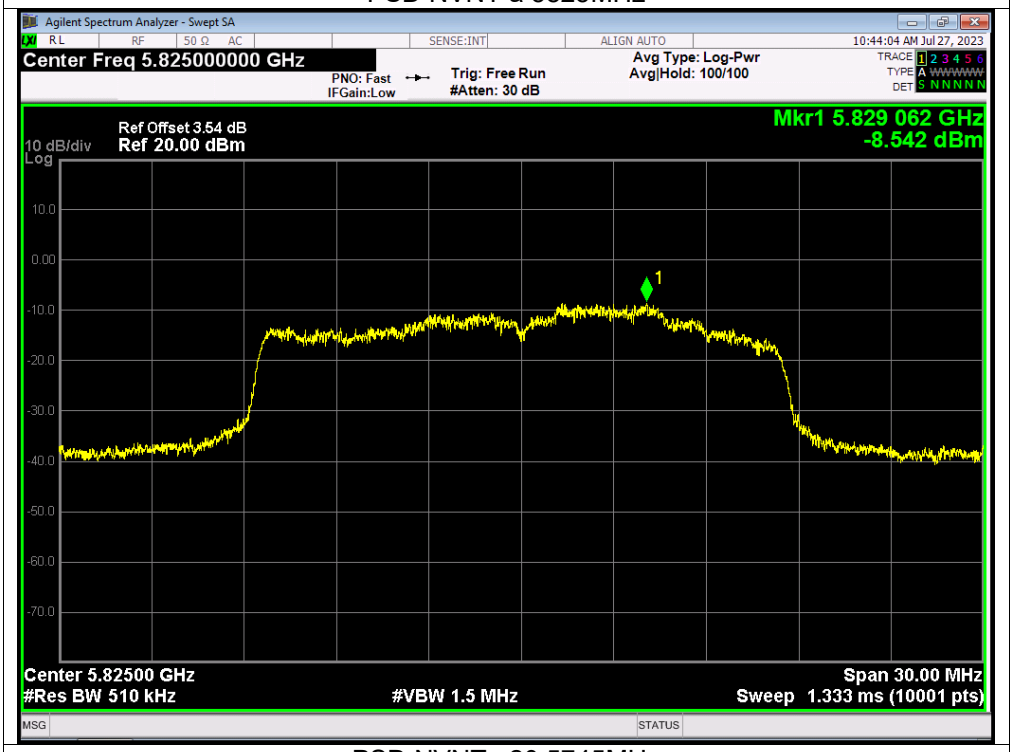
Test Graphs
PSD NVNT a 5745MHz



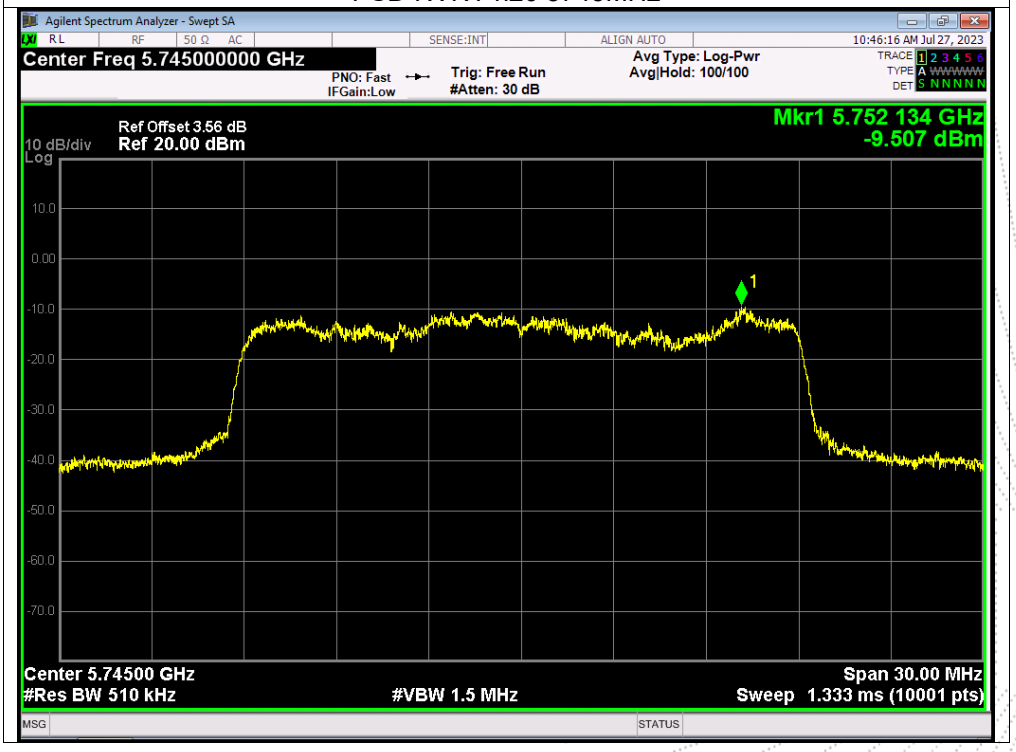
PSD NVNT a 5785MHz



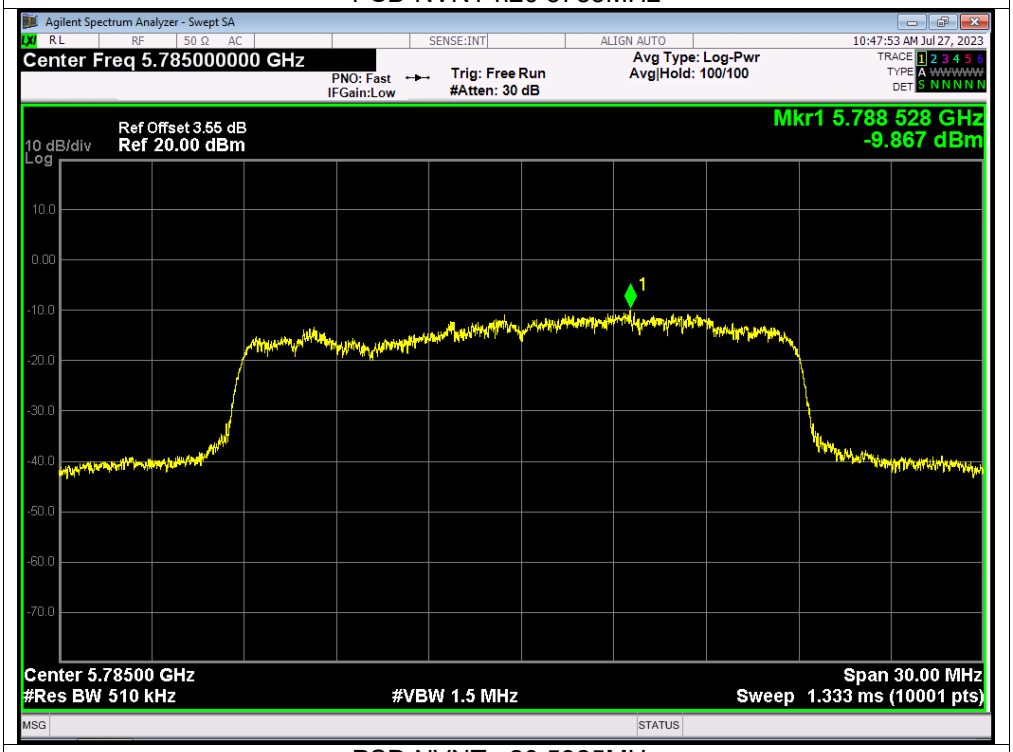
PSD NVNT a 5825MHz



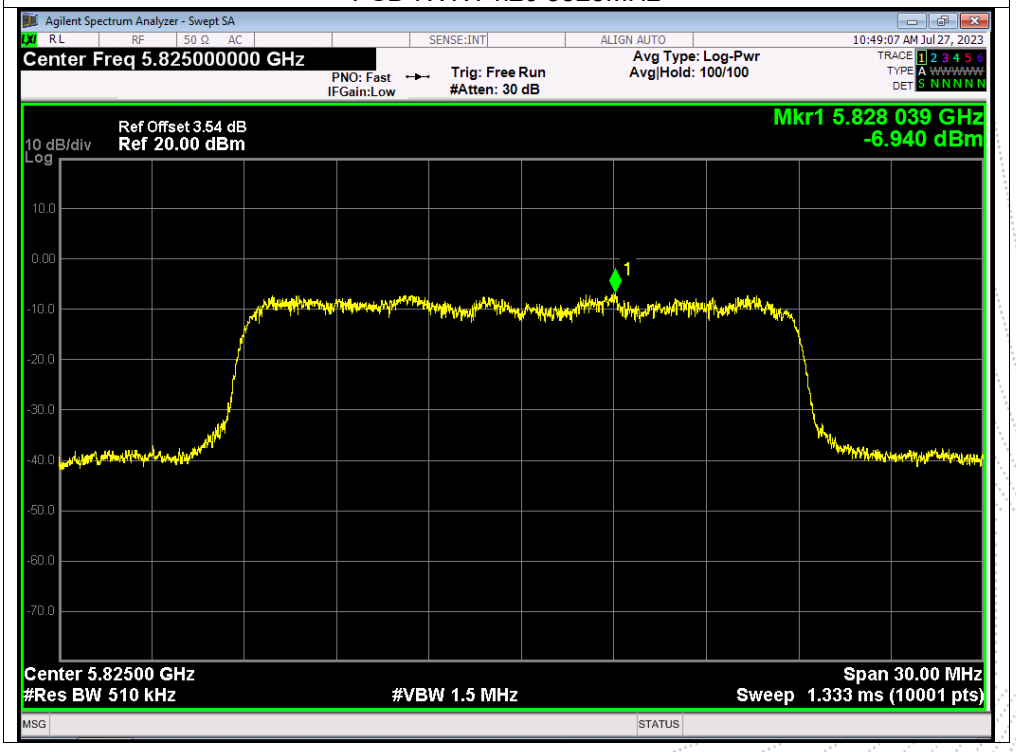
PSD NVNT n20 5745MHz



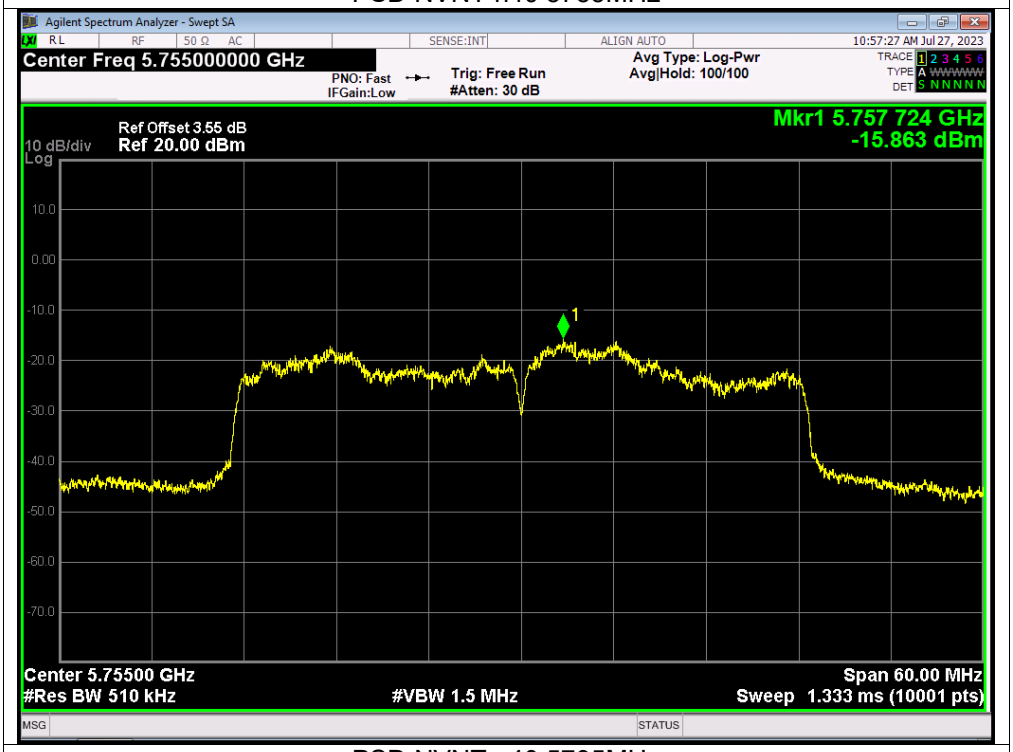
PSD NVNT n20 5785MHz



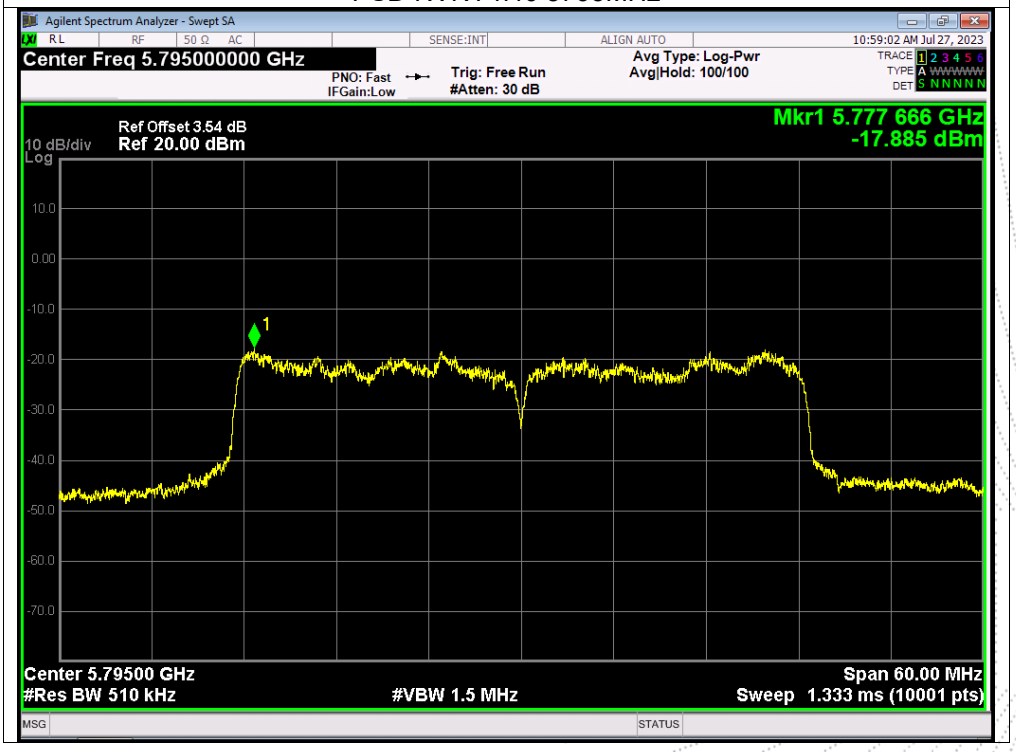
PSD NVNT n20 5825MHz



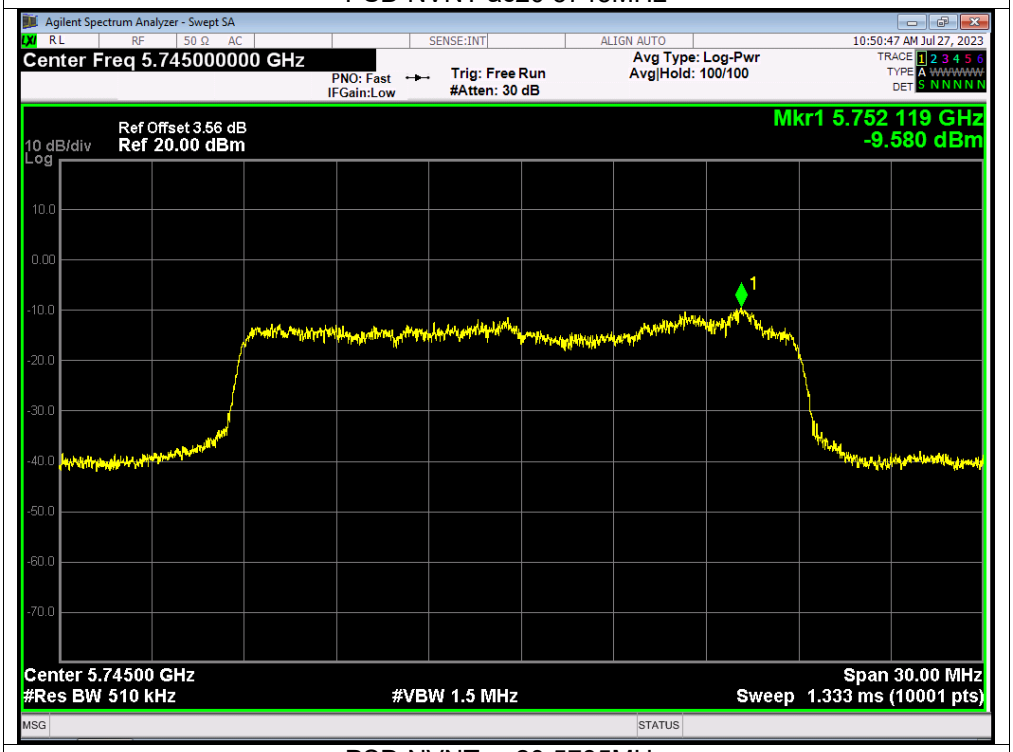
PSD NVNT n40 5755MHz



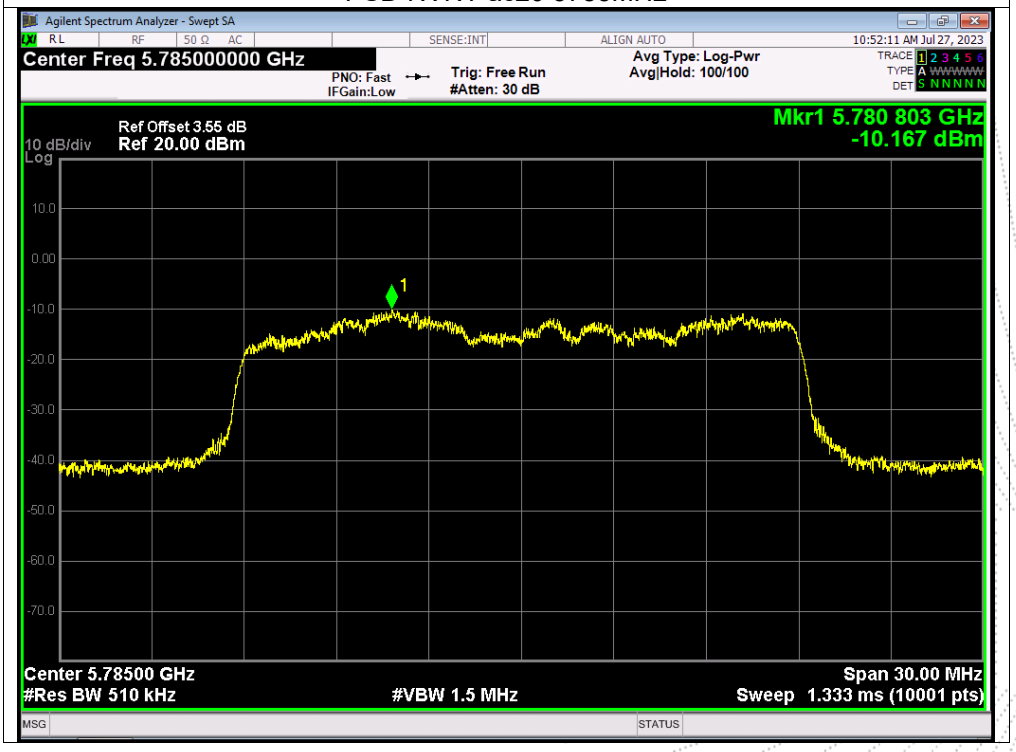
PSD NVNT n40 5795MHz



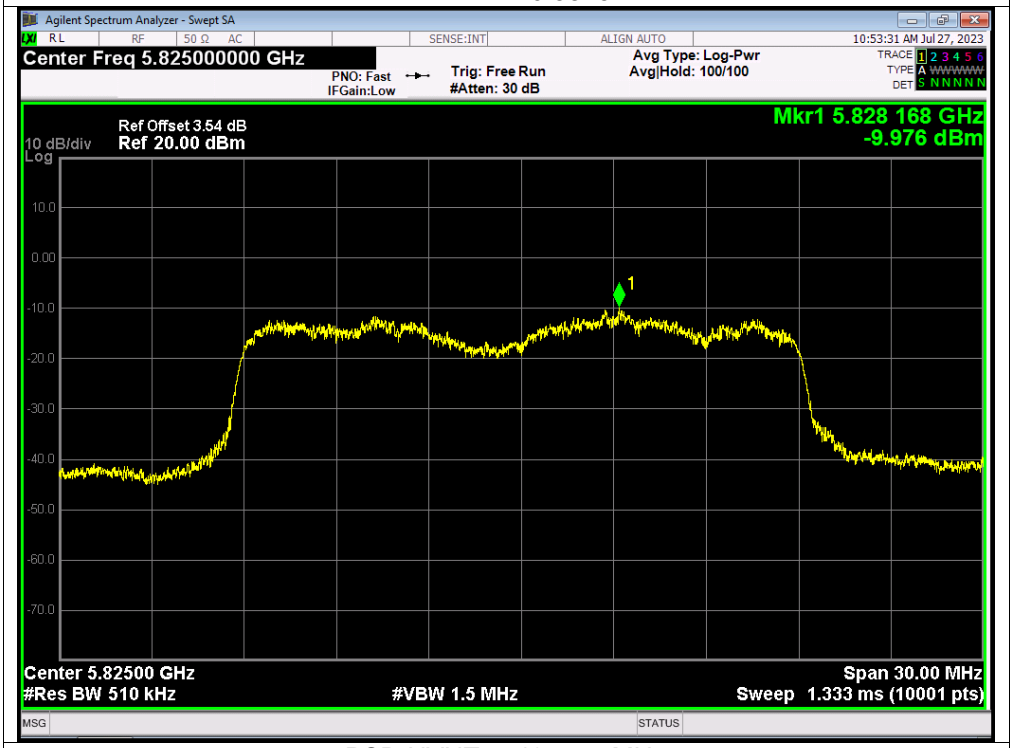
PSD NVNT ac20 5745MHz



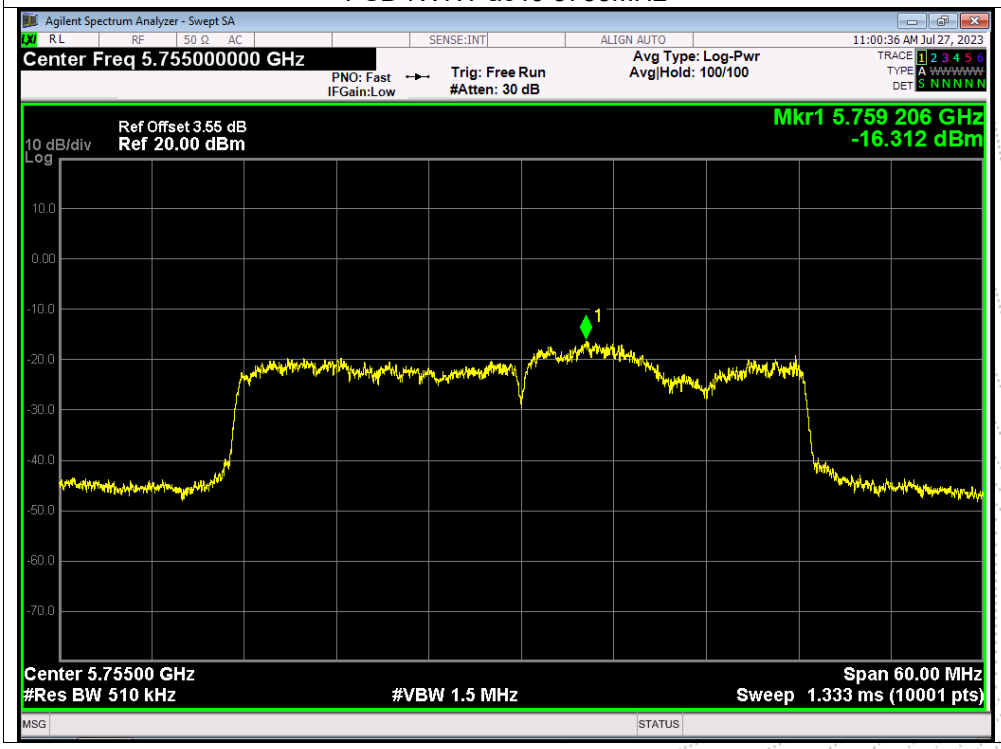
PSD NVNT ac20 5785MHz



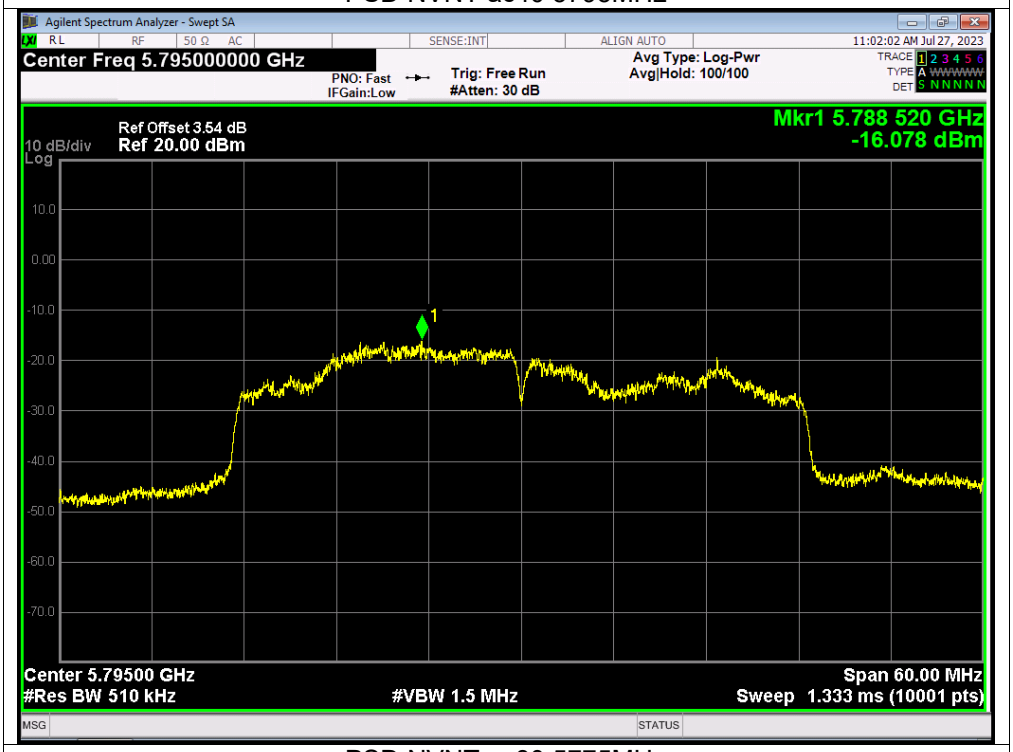
PSD NVNT ac20 5825MHz



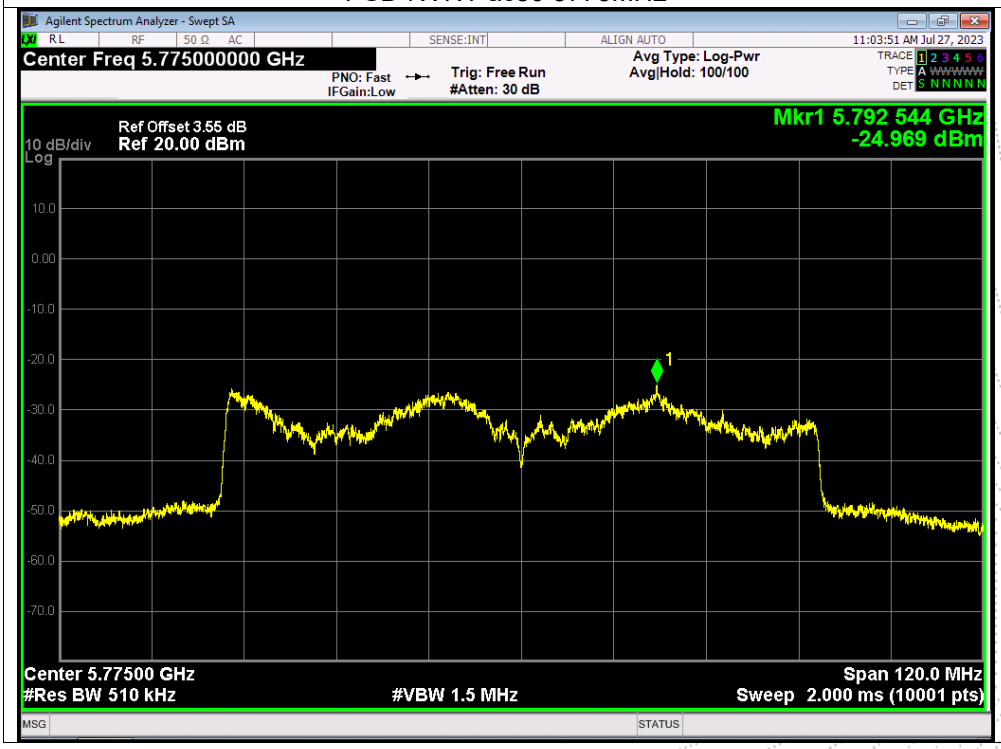
PSD NVNT ac40 5755MHz



PSD NVNT ac40 5795MHz

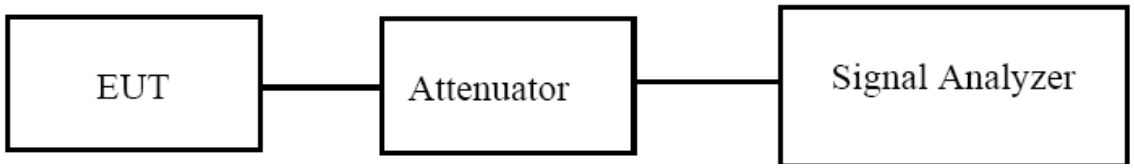


PSD NVNT ac80 5775MHz



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.

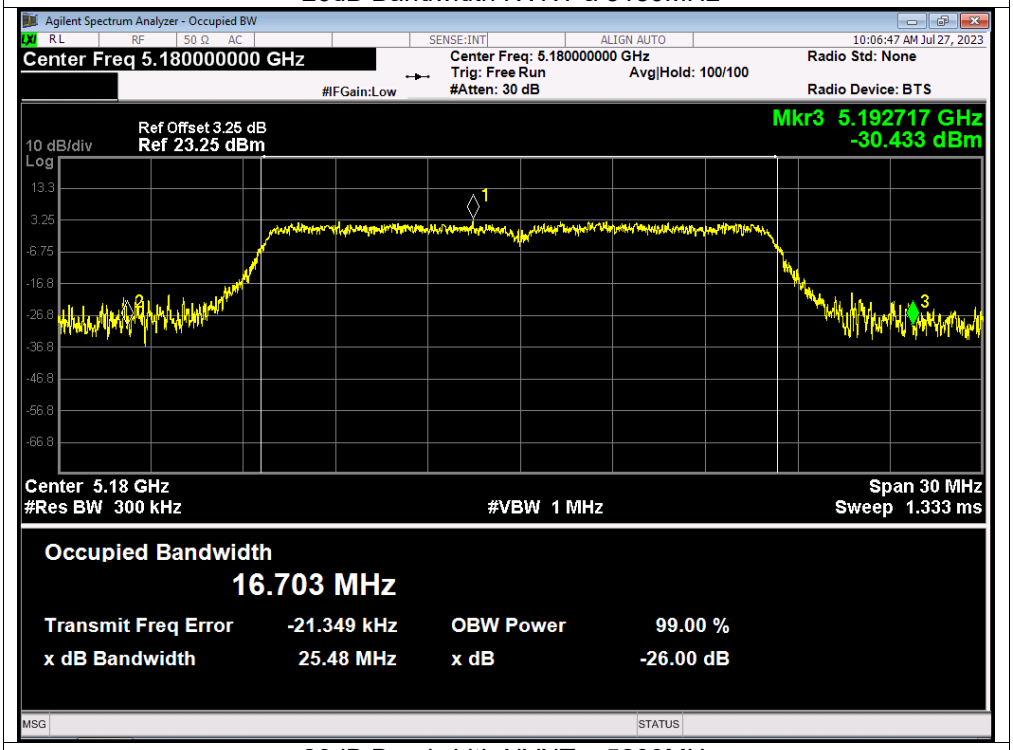
9.5 Test Result

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

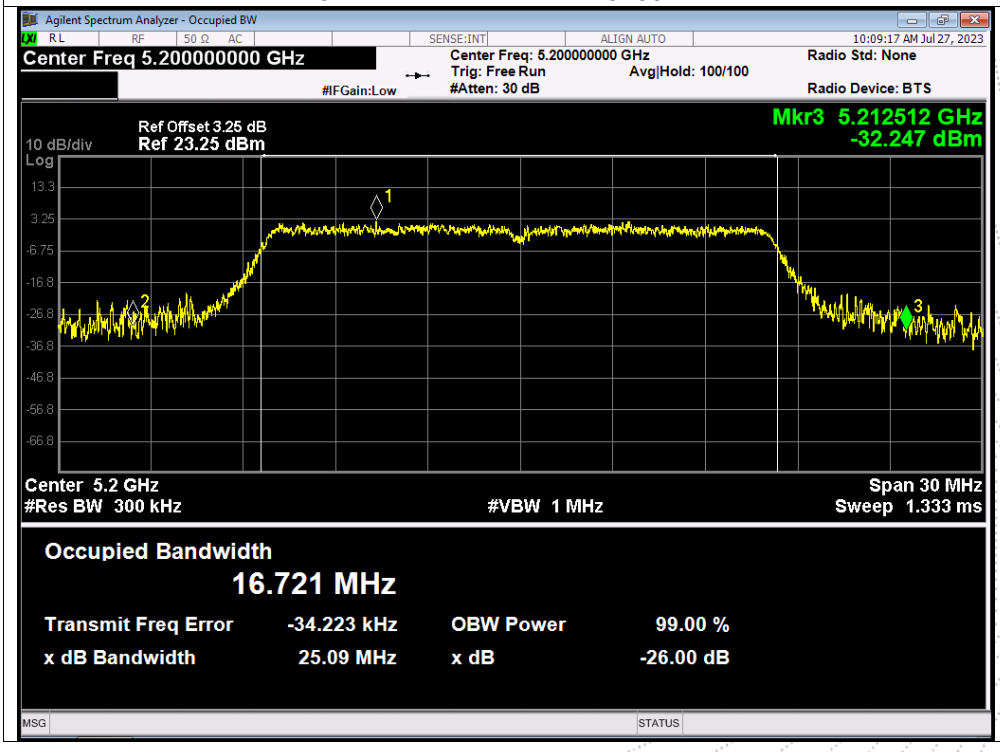
Condition	Mode	**Frequency (MHz)**	**99% bandwidth (MHz)**	**-26dB bandwidth (MHz)**	**Result**
NVNT	a	5180	16.527	25.476	Pass
NVNT	a	5200	16.56	25.092	Pass
NVNT	a	5240	16.573	25.831	Pass
NVNT	n20	5180	17.58	26.371	Pass
NVNT	n20	5200	17.641	28.299	Pass
NVNT	n20	5240	17.595	26.494	Pass
NVNT	n40	5190	36.183	55.654	Pass
NVNT	n40	5230	36.101	51.168	Pass
NVNT	ac20	5180	17.592	28.466	Pass
NVNT	ac20	5200	17.618	29.151	Pass
NVNT	ac20	5240	17.596	27.906	Pass
NVNT	ac40	5190	36.102	52.298	Pass
NVNT	ac40	5230	36.114	48.697	Pass
NVNT	ac80	5210	75.538	87.283	Pass

Test Graphs

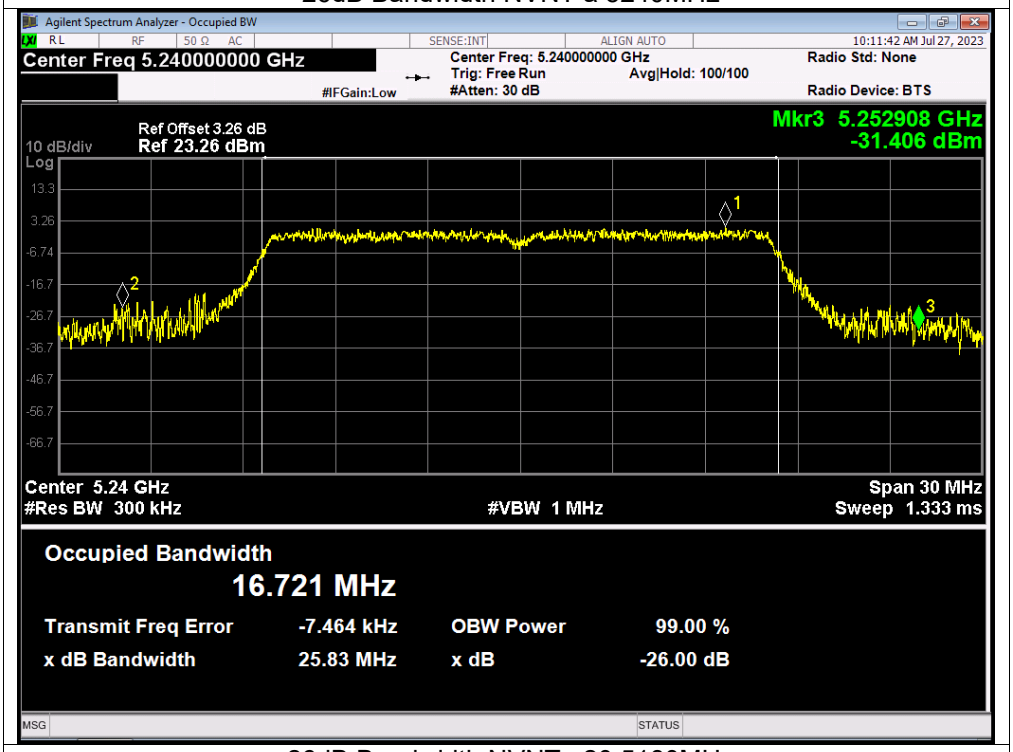
-26dB Bandwidth NVNT a 5180MHz



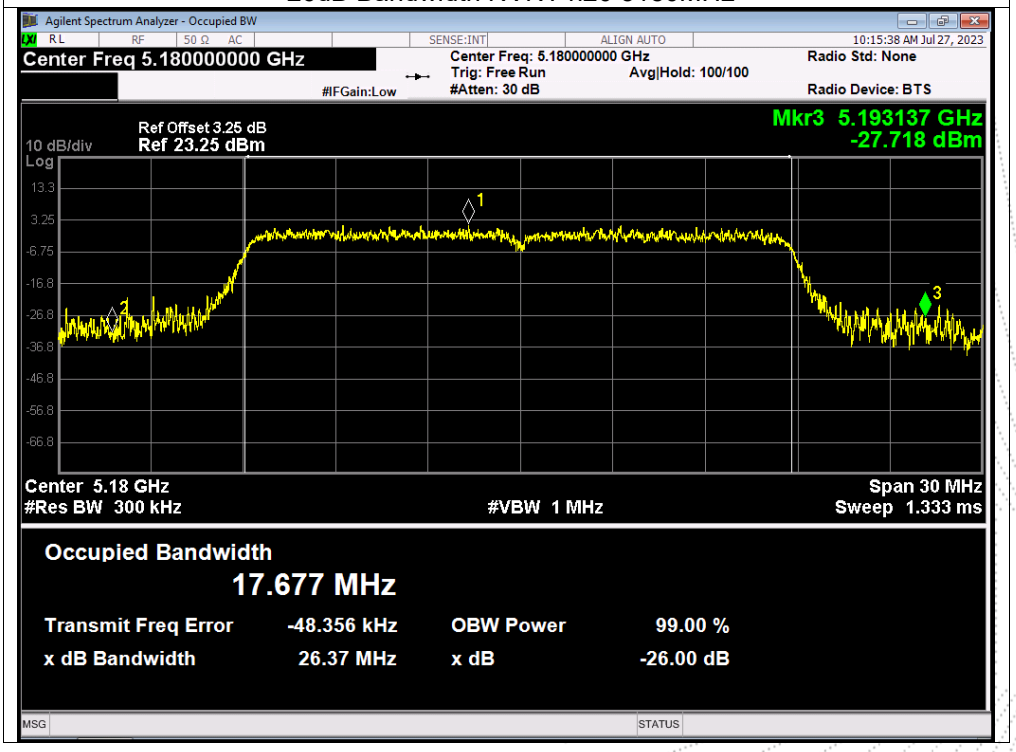
-26dB Bandwidth NVNT a 5200MHz



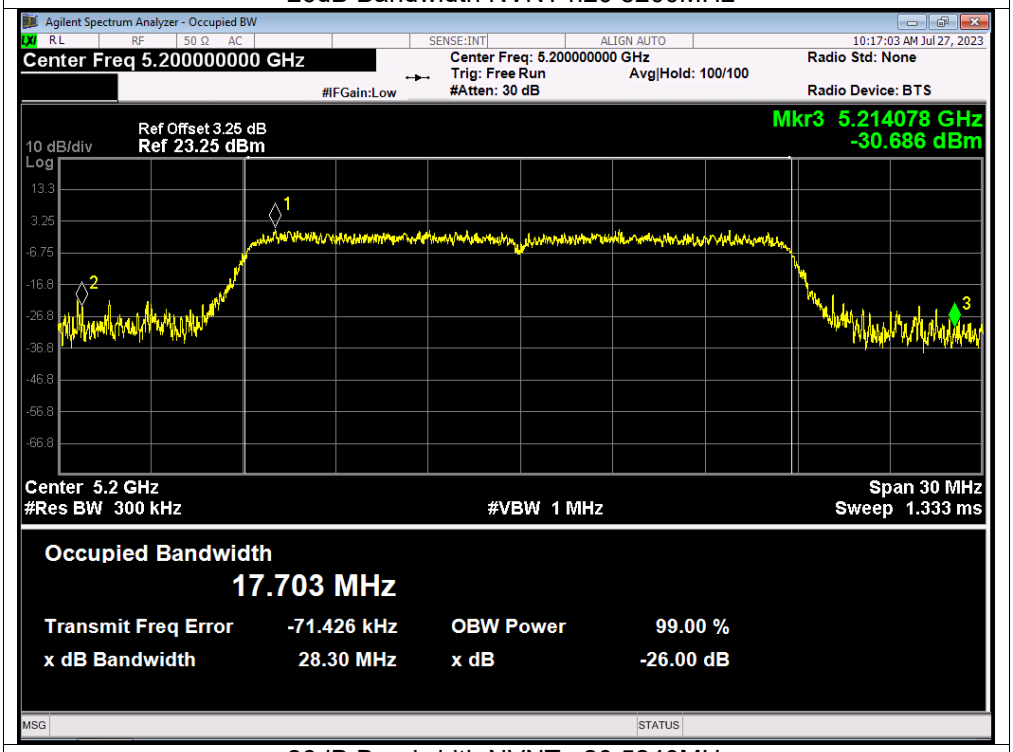
-26dB Bandwidth NVNT a 5240MHz



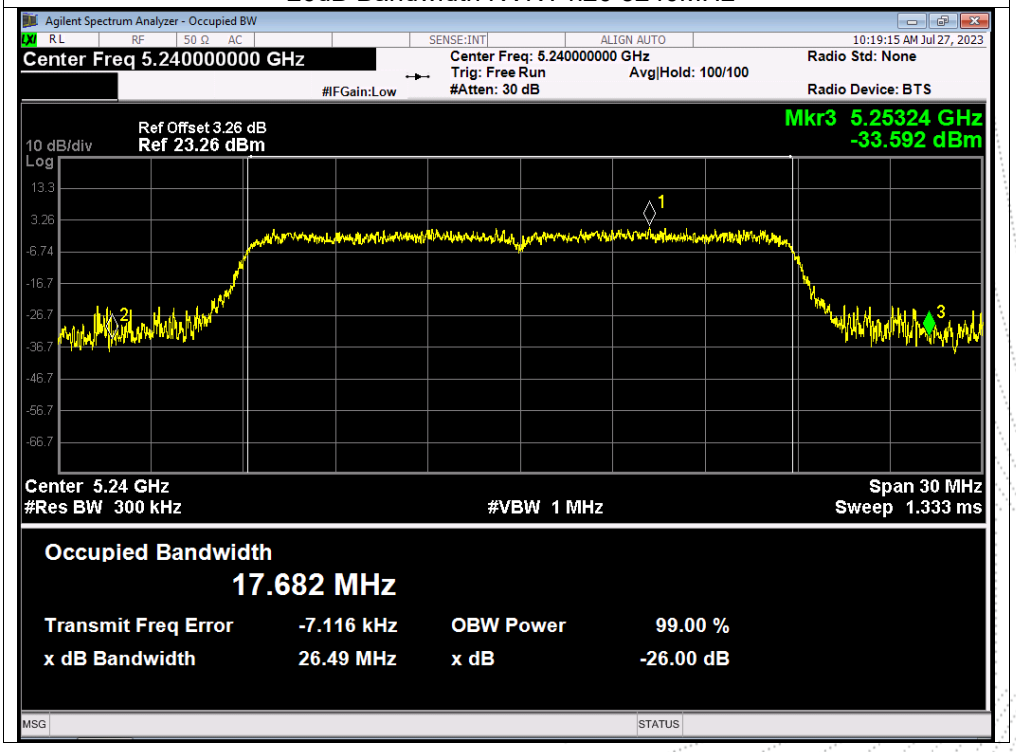
-26dB Bandwidth NVNT n20 5180MHz



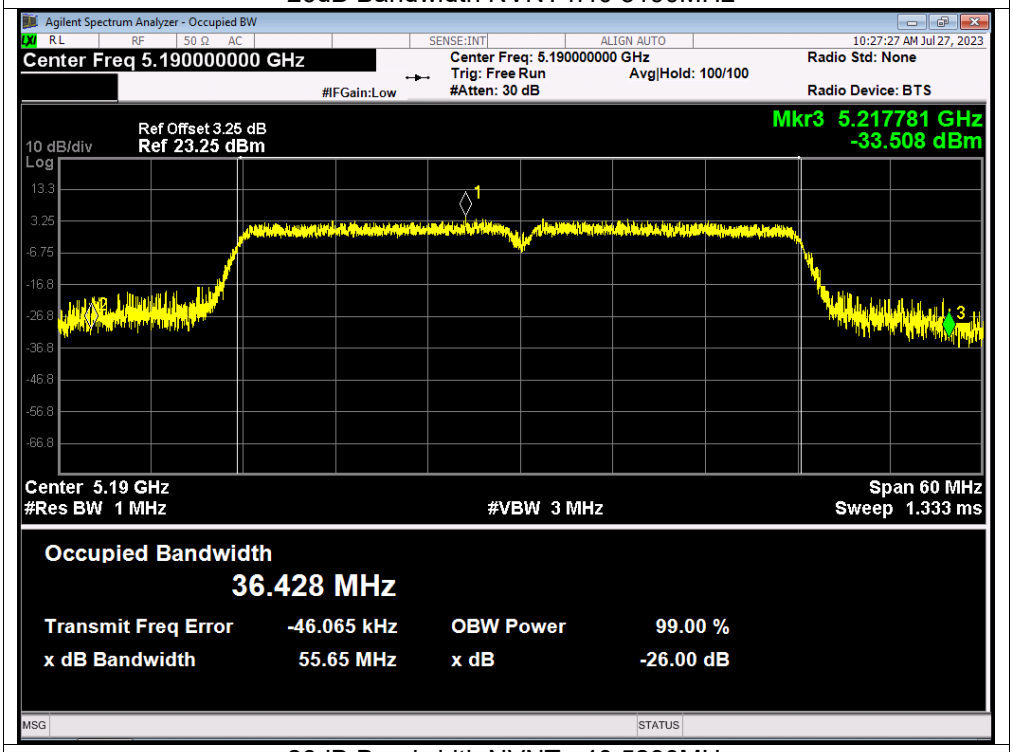
-26dB Bandwidth NVNT n20 5200MHz



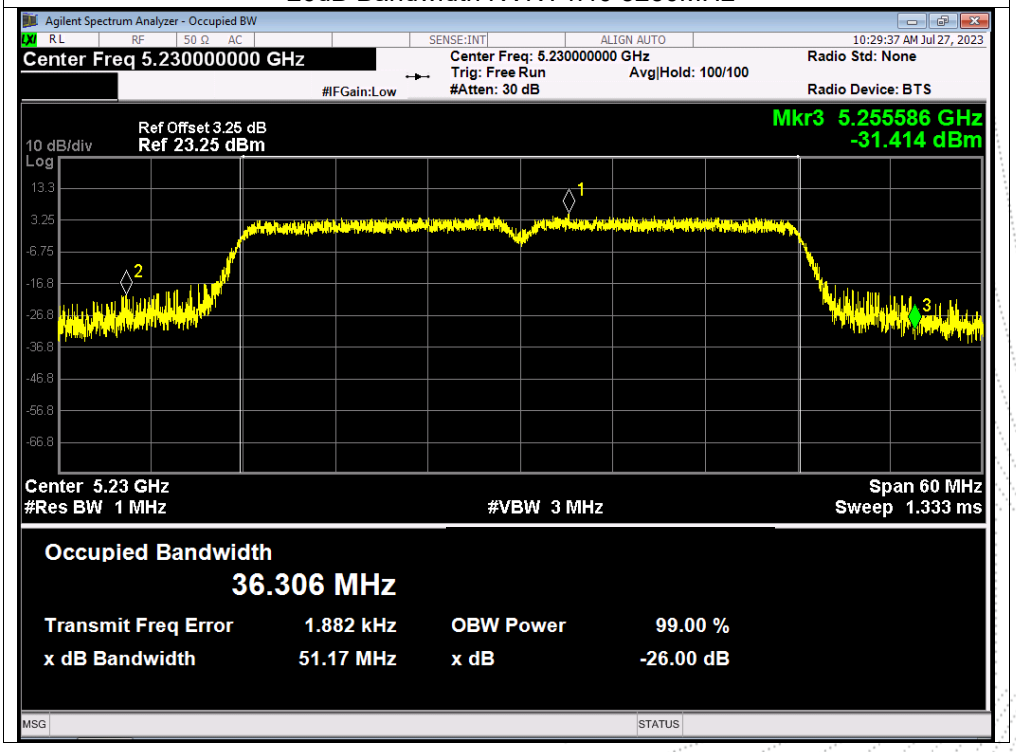
-26dB Bandwidth NVNT n20 5240MHz



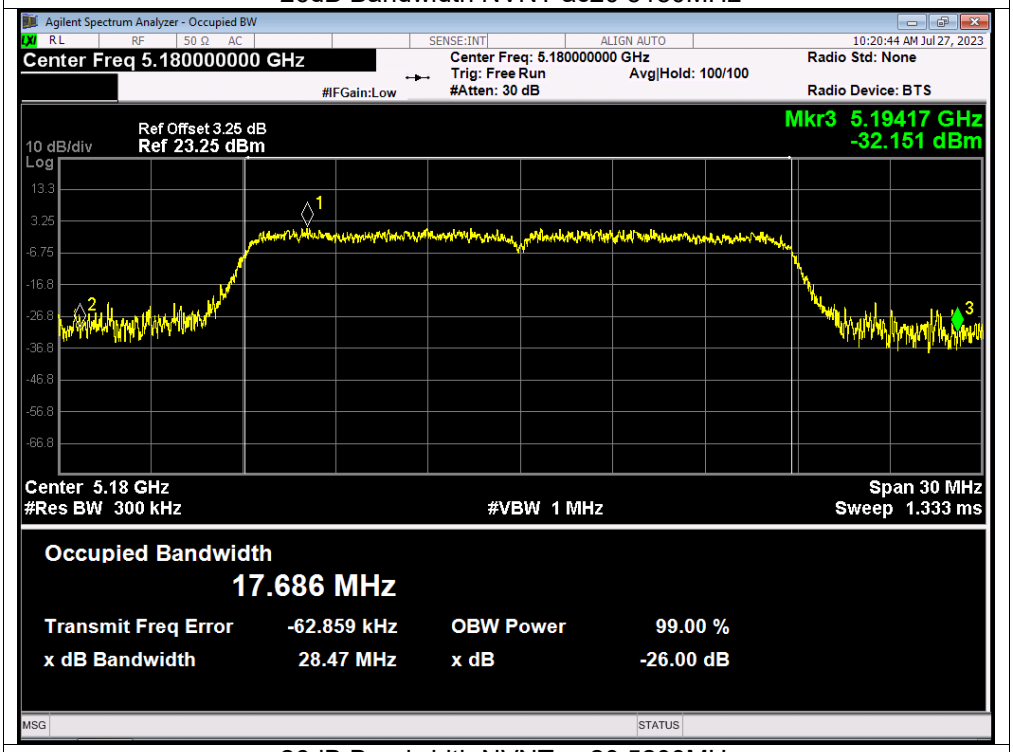
-26dB Bandwidth NVNT n40 5190MHz



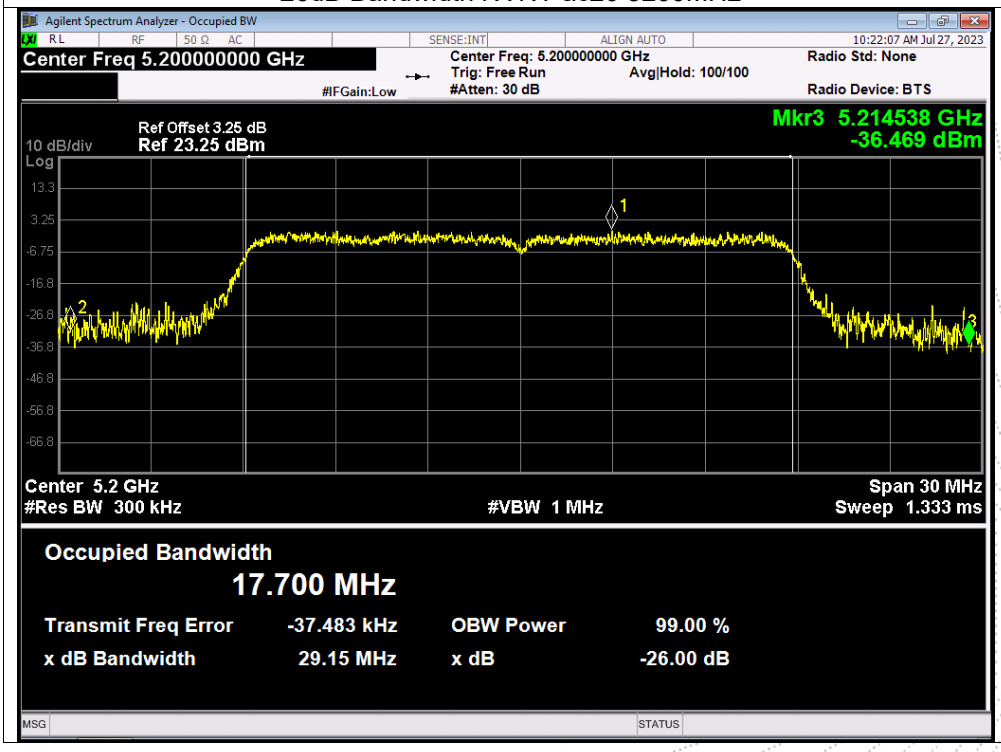
-26dB Bandwidth NVNT n40 5230MHz



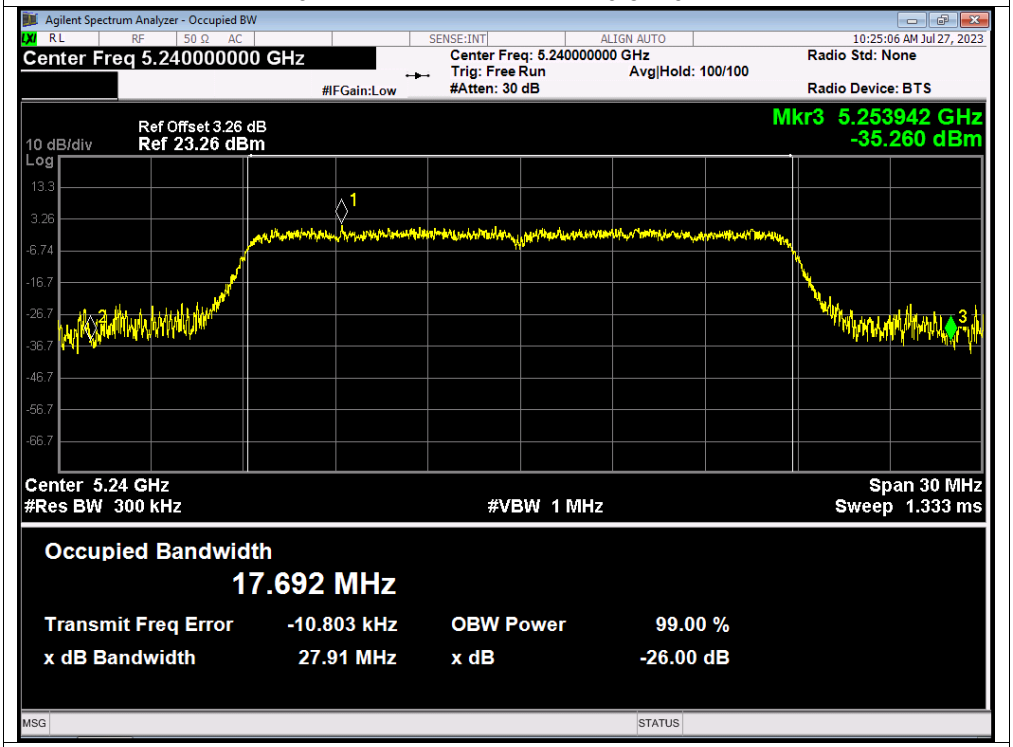
-26dB Bandwidth NVNT ac20 5180MHz



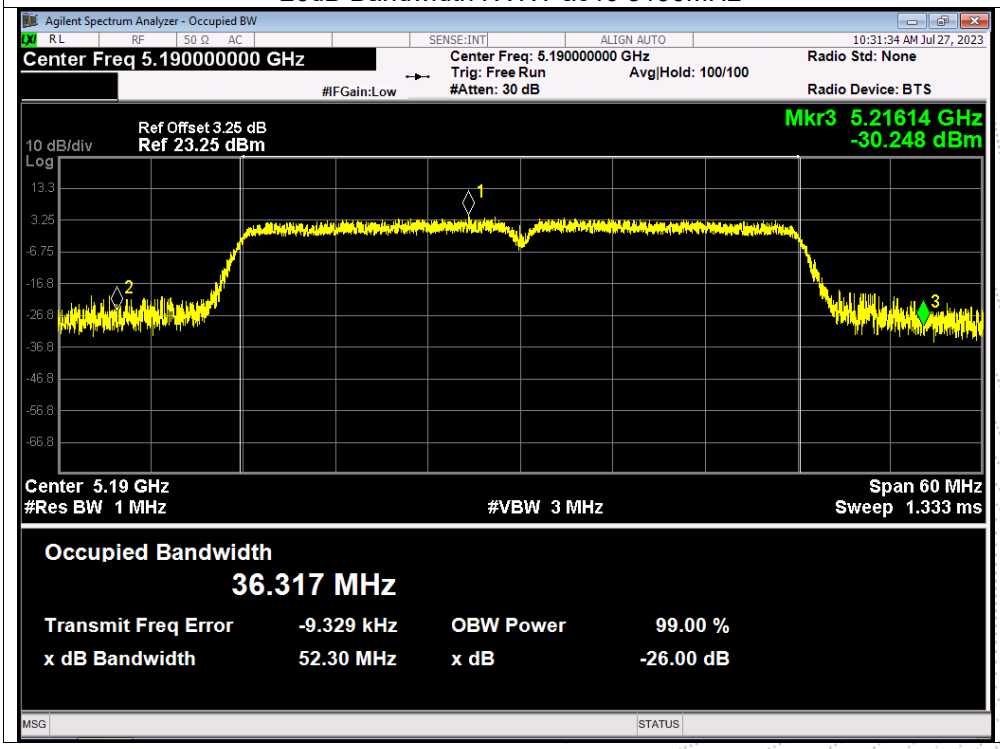
-26dB Bandwidth NVNT ac20 5200MHz



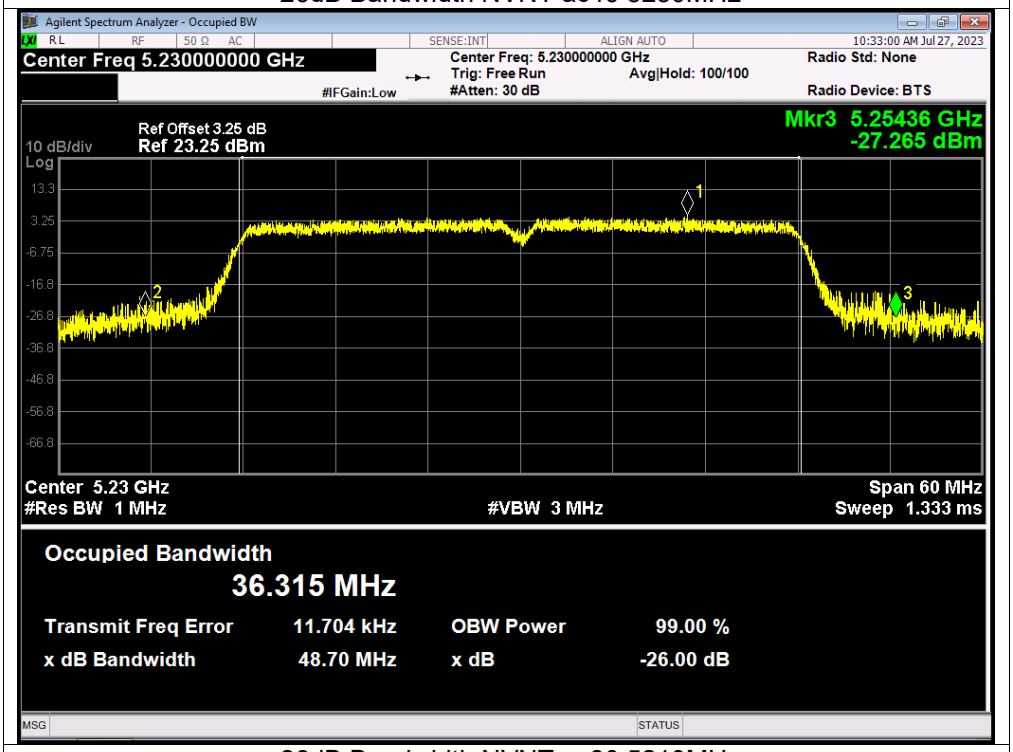
-26dB Bandwidth NVNT ac20 5240MHz



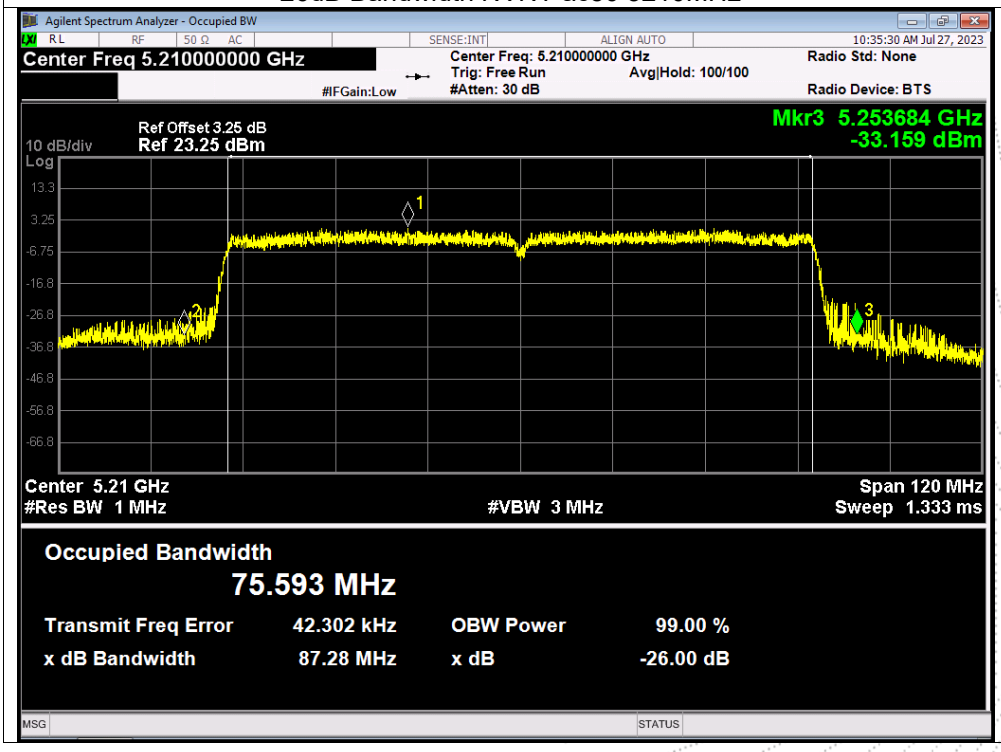
-26dB Bandwidth NVNT ac40 5190MHz



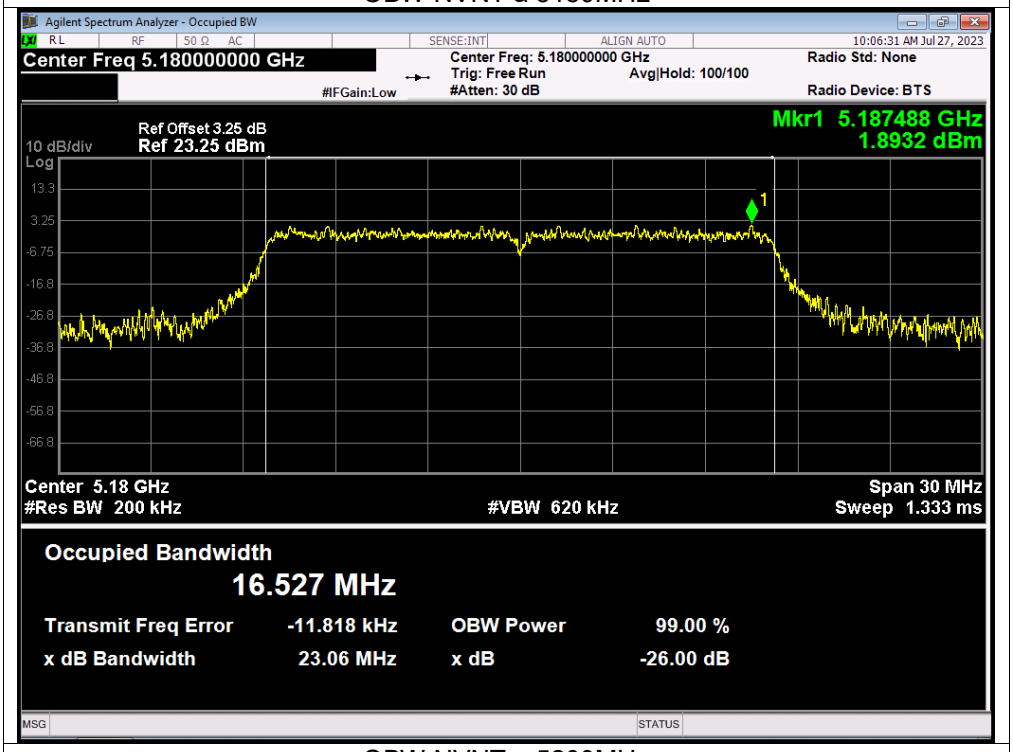
-26dB Bandwidth NVNT ac40 5230MHz



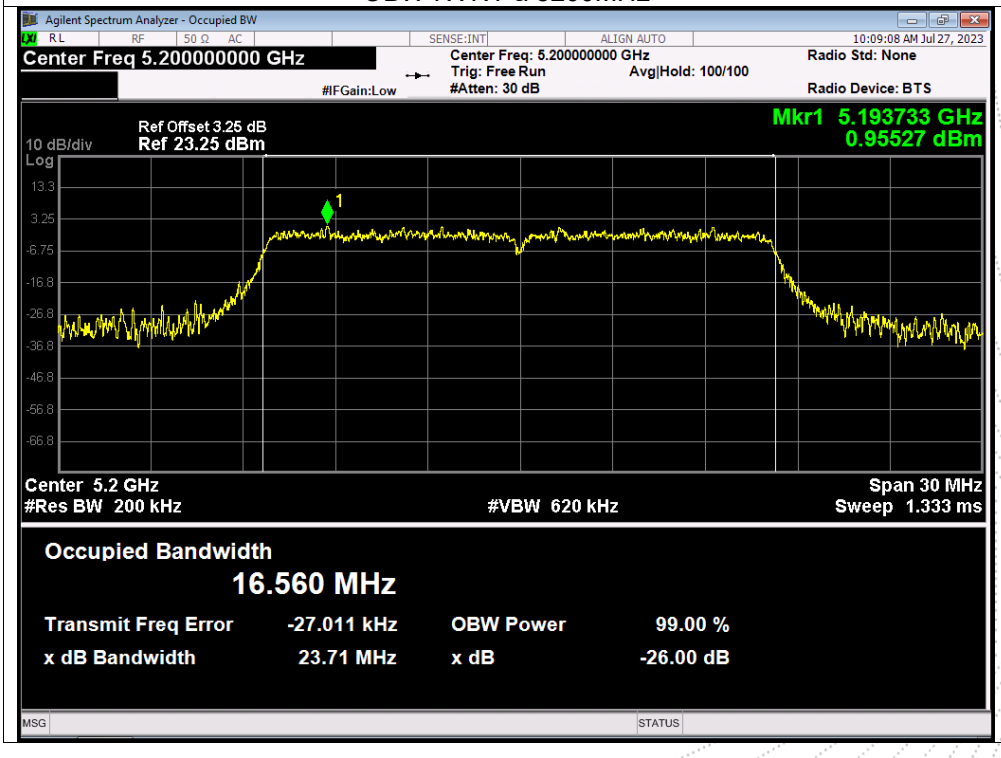
-26dB Bandwidth NVNT ac80 5210MHz



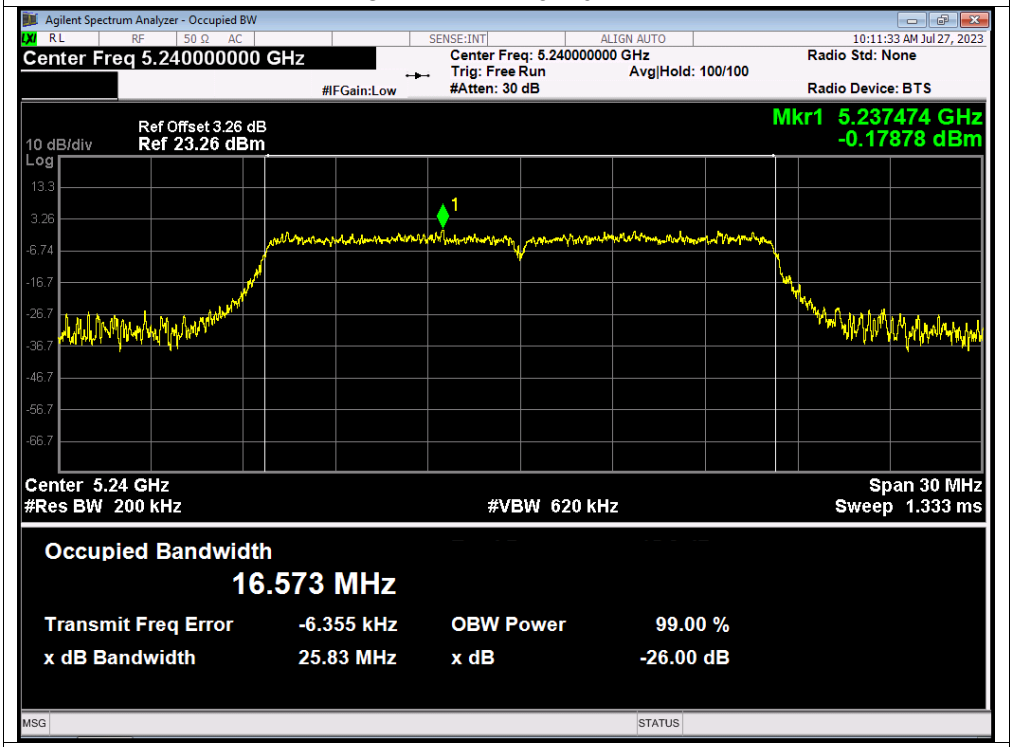
Test Graphs
OBW NVNT a 5180MHz



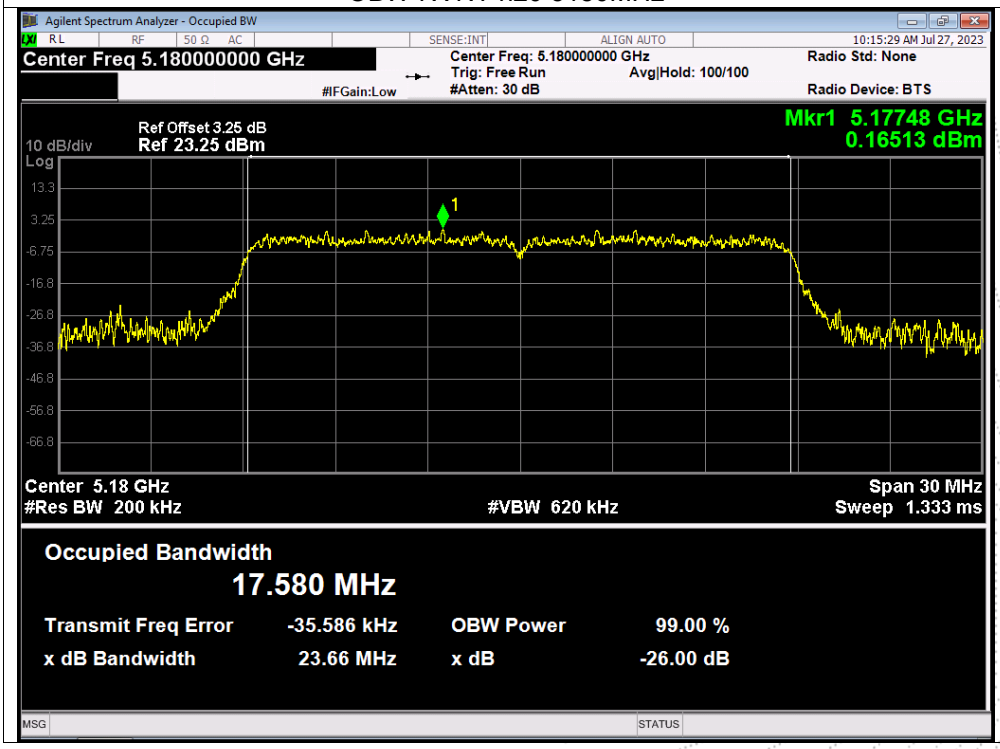
OBW NVNT a 5200MHz



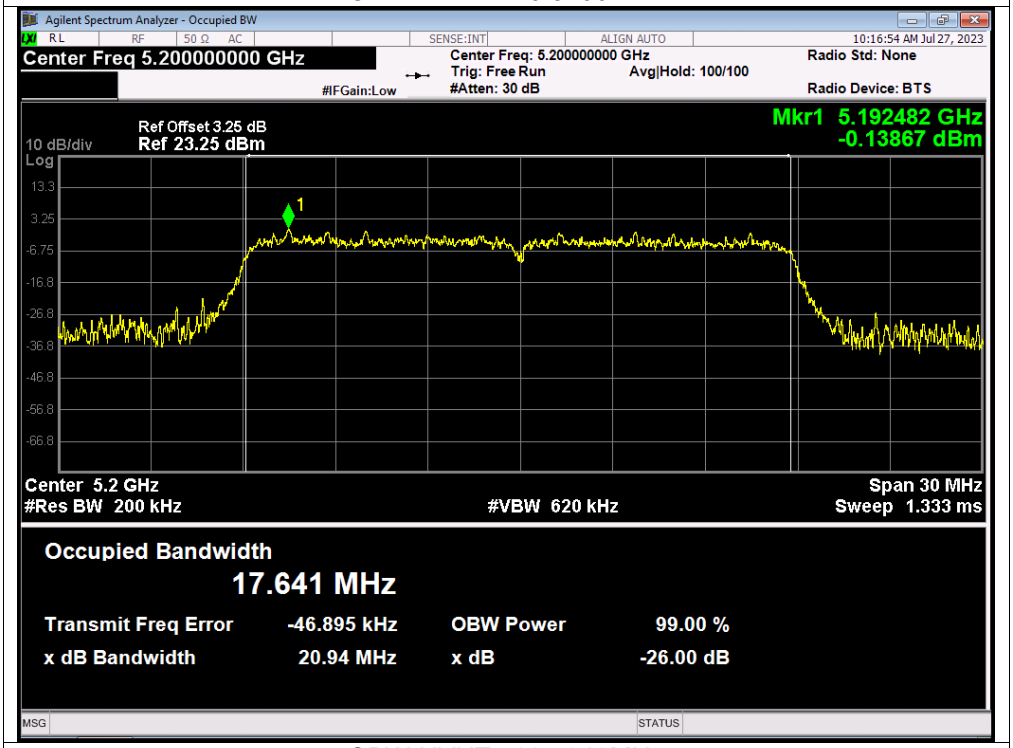
OBW NVNT a 5240MHz



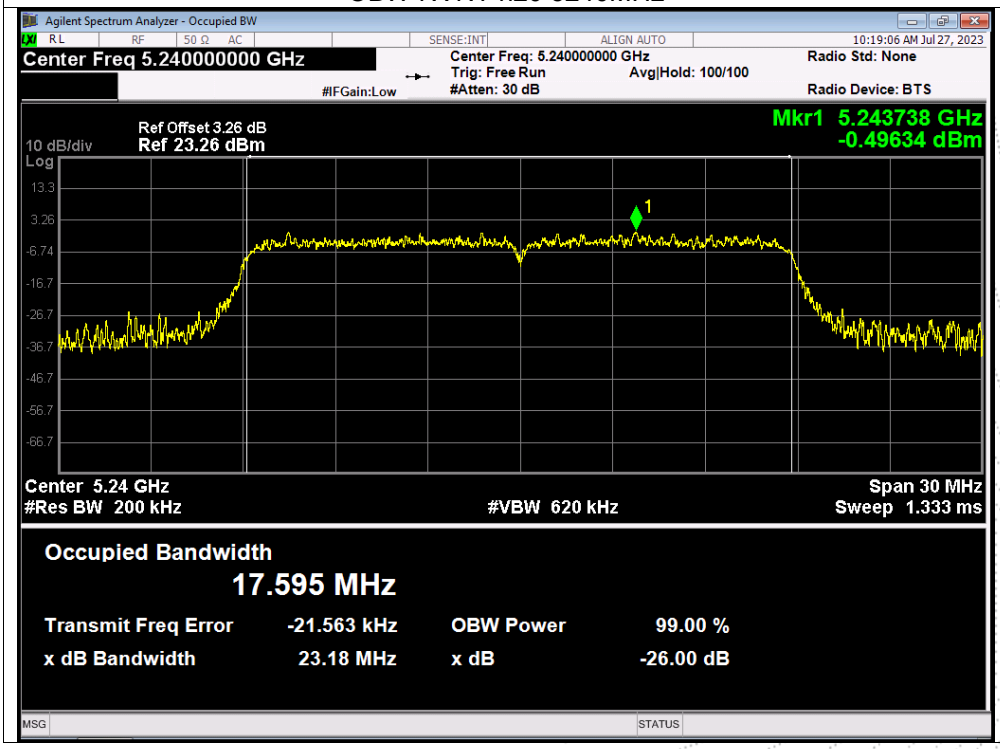
OBW NVNT n20 5180MHz



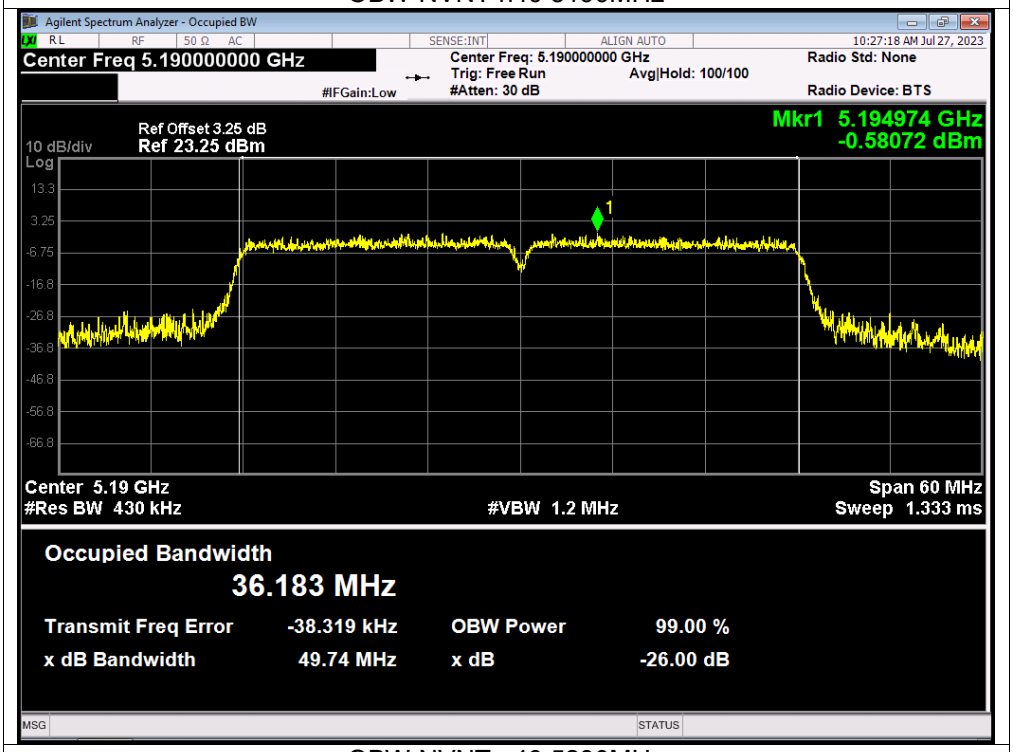
OBW NVNT n20 5200MHz



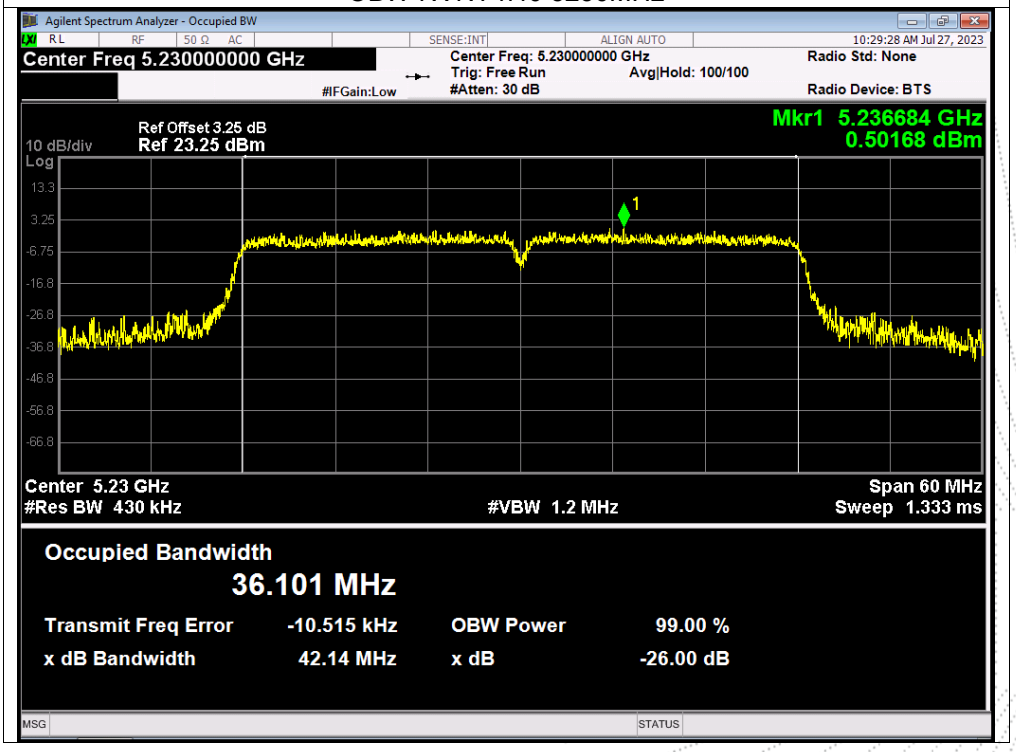
OBW NVNT n20 5240MHz



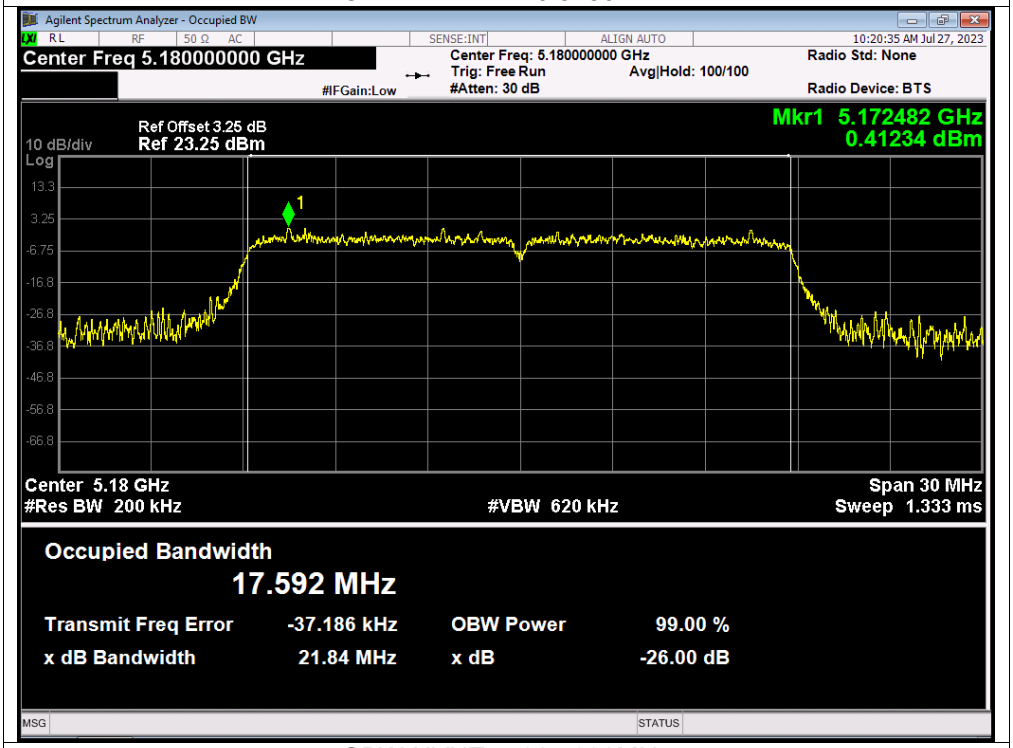
OBW NVNT n40 5190MHz



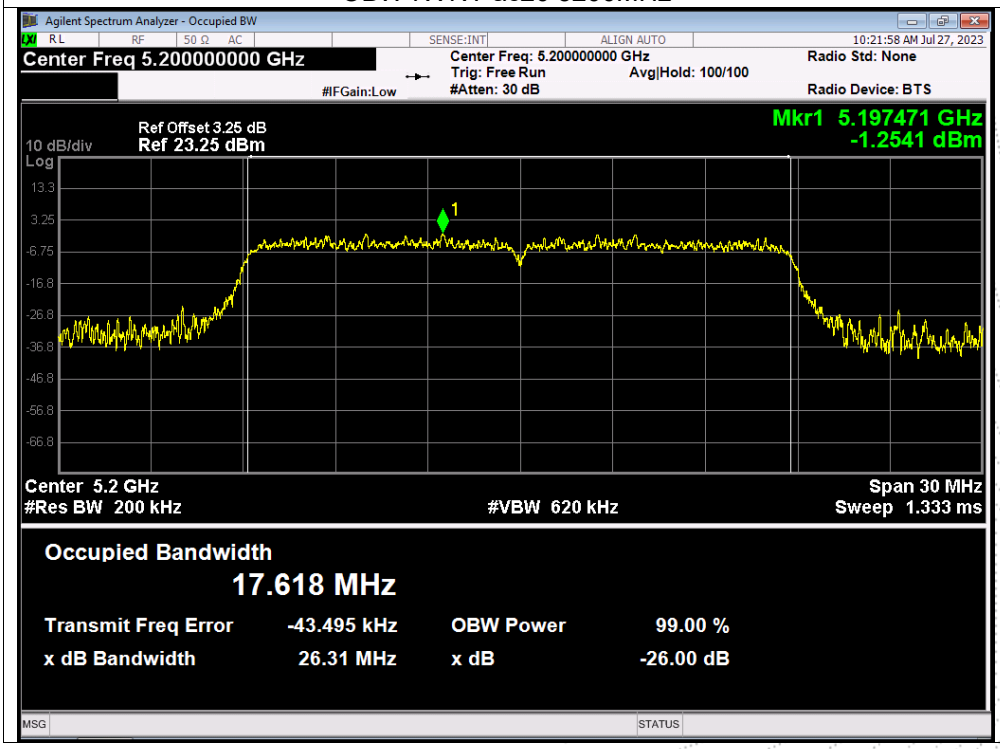
OBW NVNT n40 5230MHz



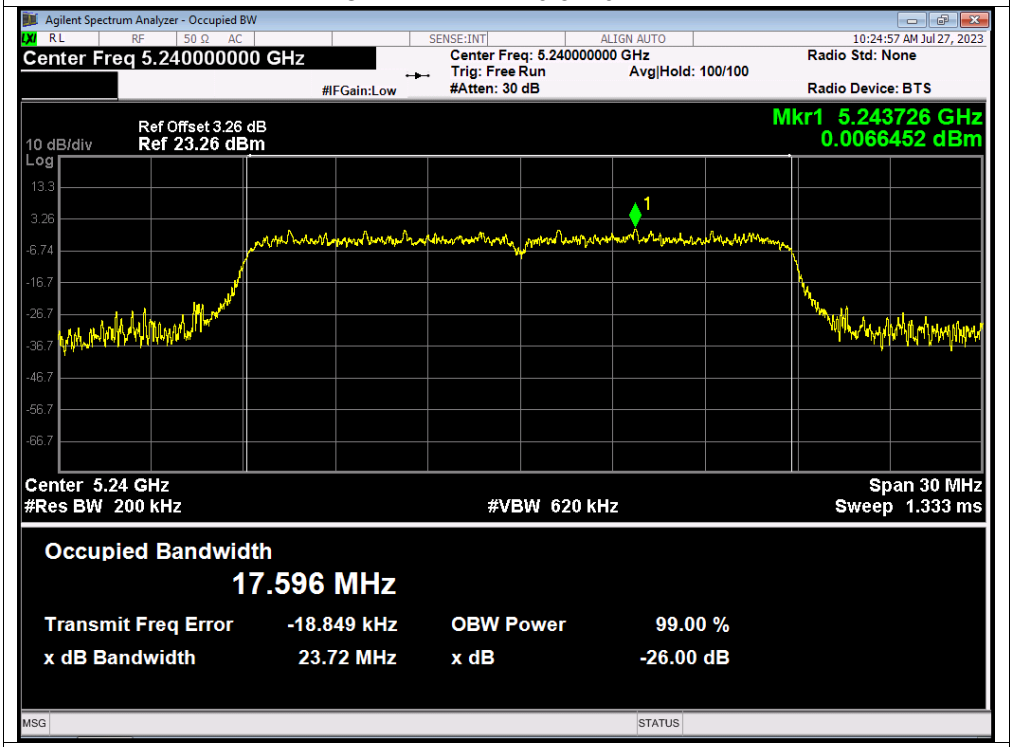
OBW NVNT ac20 5180MHz



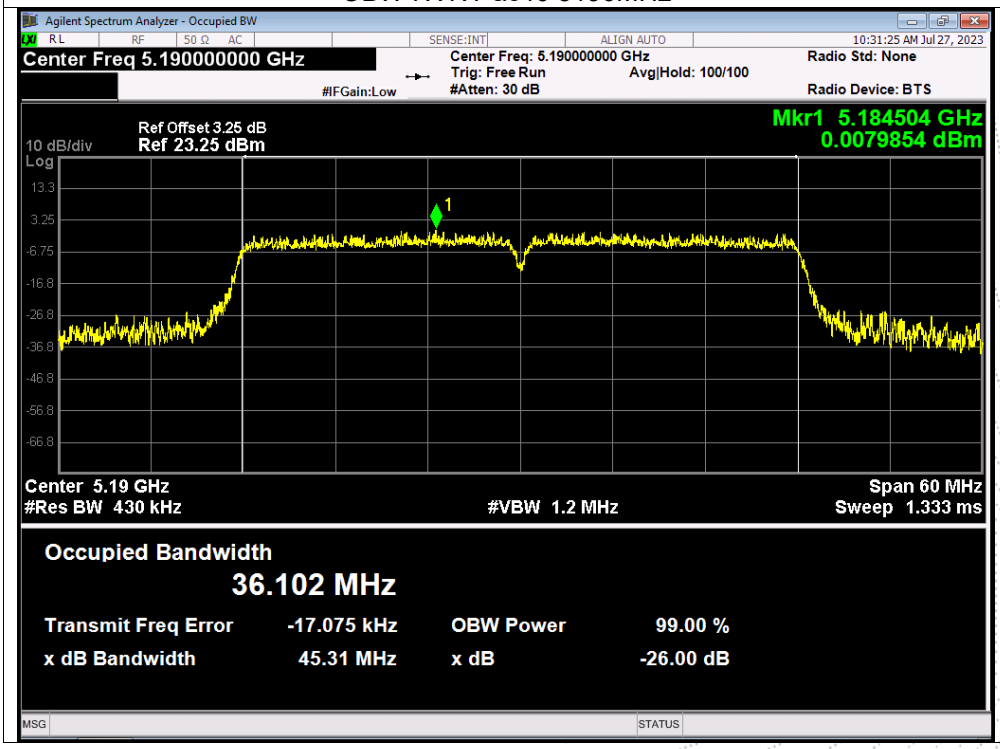
OBW NVNT ac20 5200MHz



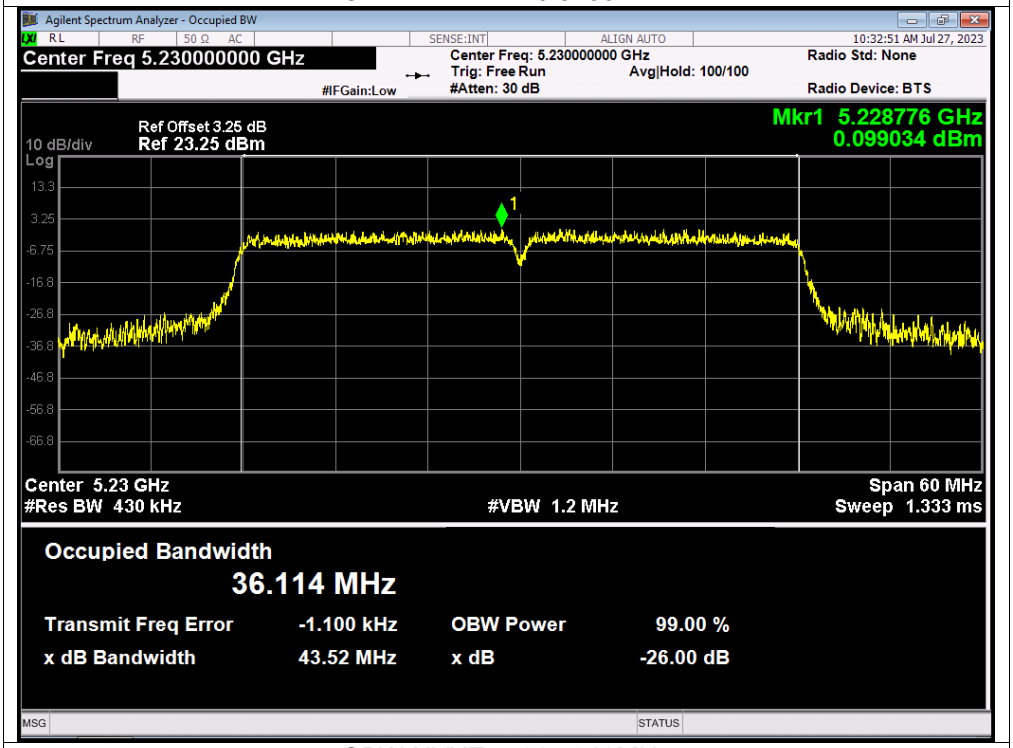
OBW NVNT ac20 5240MHz



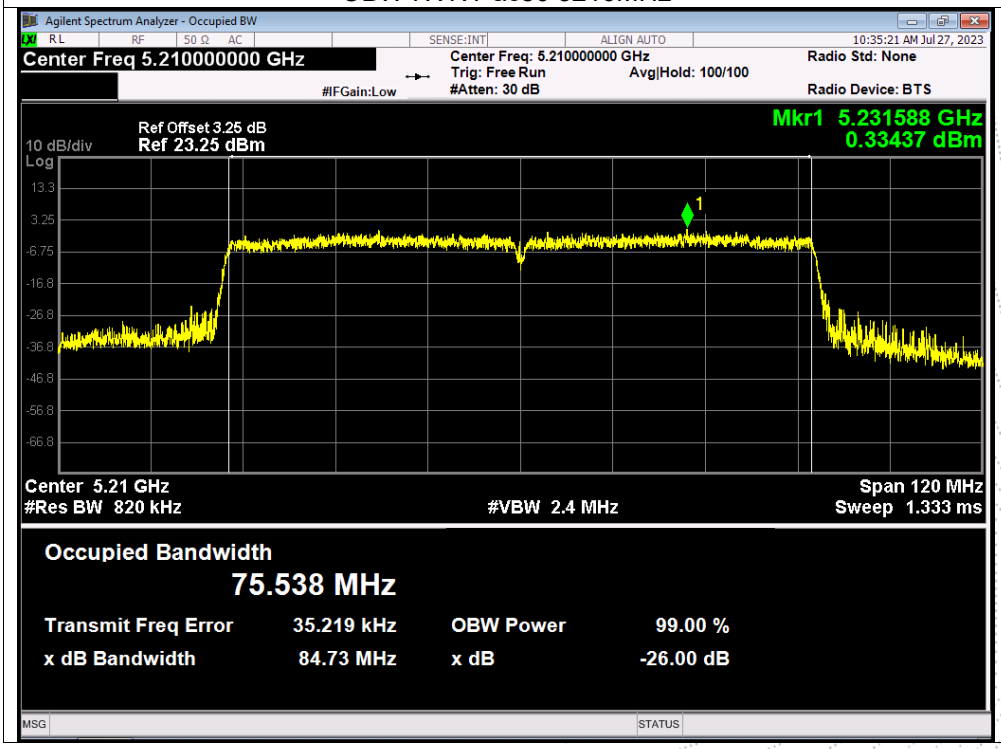
OBW NVNT ac40 5190MHz



OBW NVNT ac40 5230MHz



OBW NVNT ac80 5210MHz

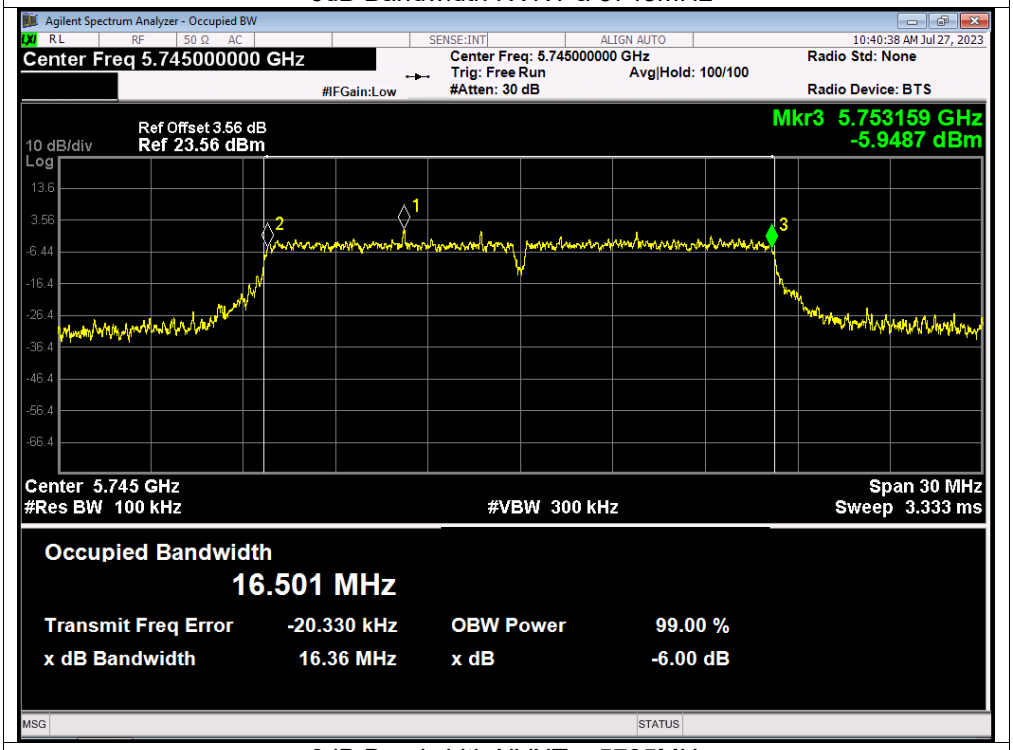


Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 5V
Test Mode ：	TX Frequency U-NII-3(5745-5825MHz)		

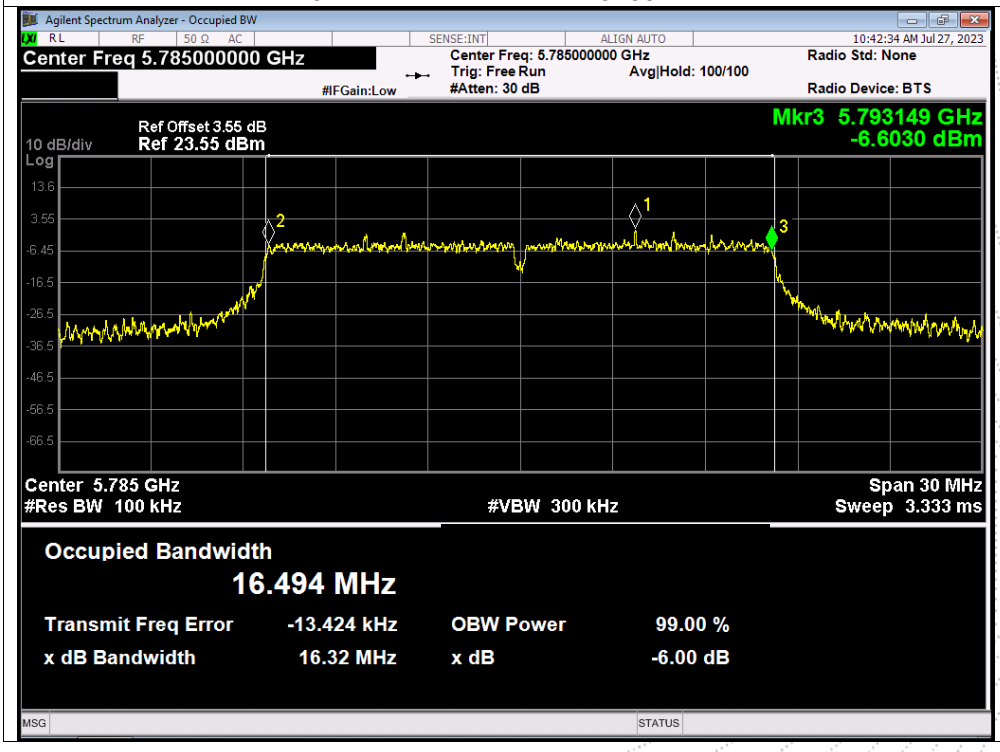
Condition	Mode	Frequency (MHz)	99% bandwidth (MHz)	-6dB bandwidth (MHz)	Limit -6dB bandwidth MHz	Result
NVNT	a	5745	16.661	16.359	≥500	Pass
NVNT	a	5785	16.629	16.325	≥500	Pass
NVNT	a	5825	16.611	16.338	≥500	Pass
NVNT	n20	5745	17.627	17.401	≥500	Pass
NVNT	n20	5785	17.622	17.241	≥500	Pass
NVNT	n20	5825	17.62	17.157	≥500	Pass
NVNT	n40	5755	36.06	35.17	≥500	Pass
NVNT	n40	5795	36.115	35.196	≥500	Pass
NVNT	ac20	5745	17.614	17.16	≥500	Pass
NVNT	ac20	5785	17.634	17.262	≥500	Pass
NVNT	ac20	5825	17.62	17.404	≥500	Pass
NVNT	ac40	5755	36.121	35.456	≥500	Pass
NVNT	ac40	5795	36.156	35.194	≥500	Pass
NVNT	ac80	5775	75.582	75.471	≥500	Pass

Test Graphs

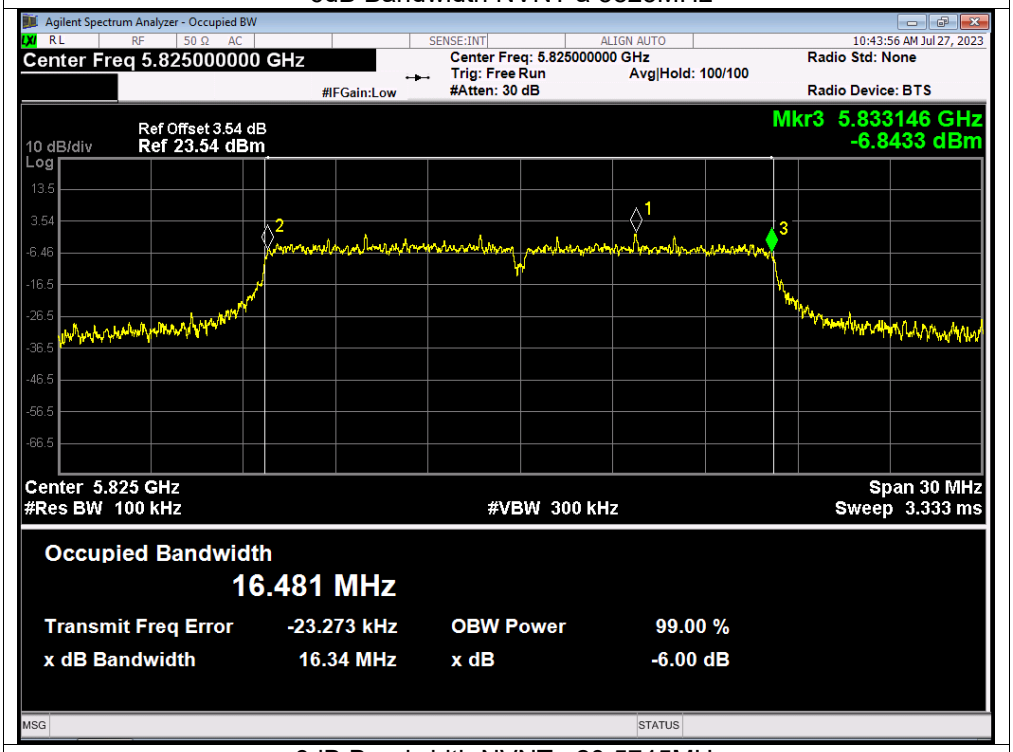
-6dB Bandwidth NVNT a 5745MHz



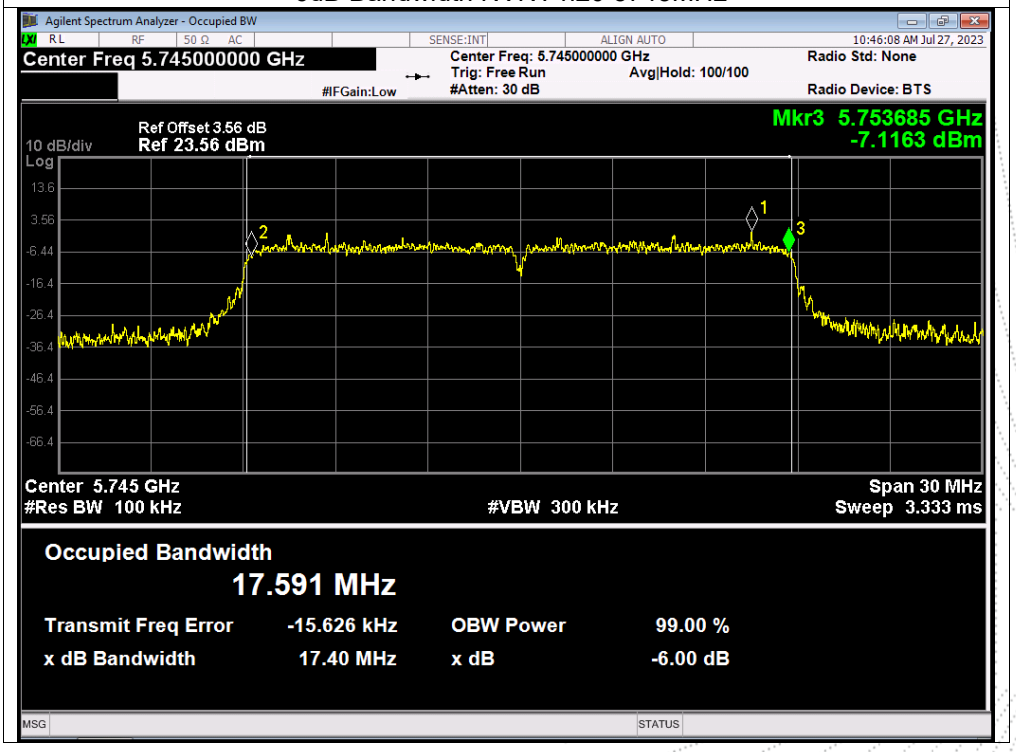
-6dB Bandwidth NVNT a 5785MHz



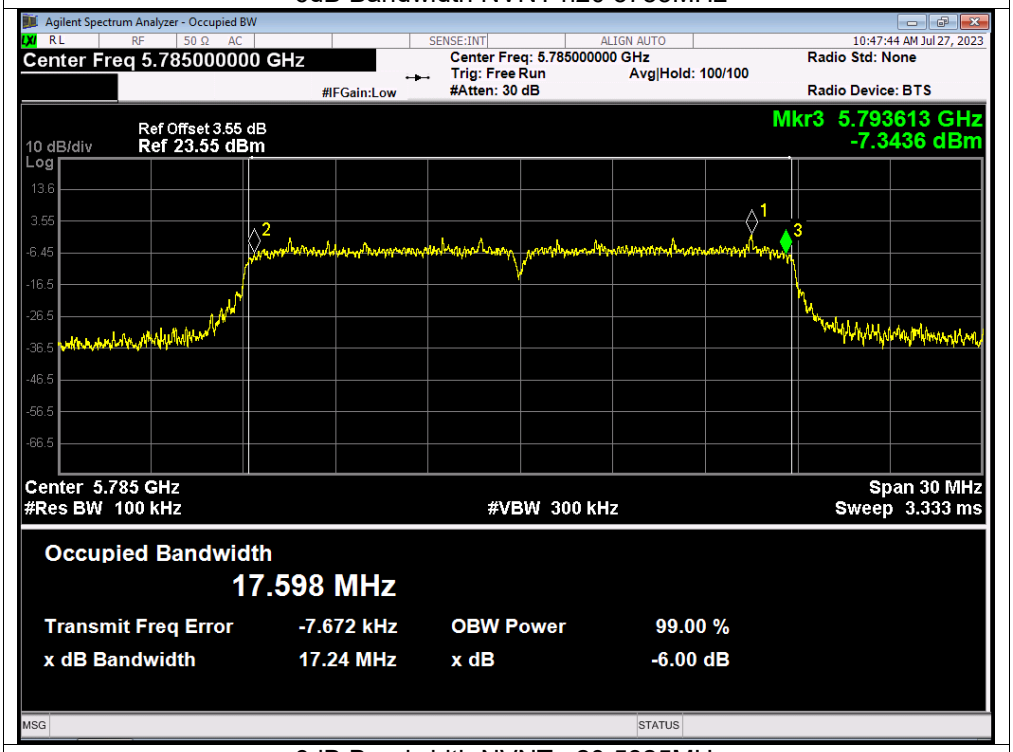
-6dB Bandwidth NVNT a 5825MHz



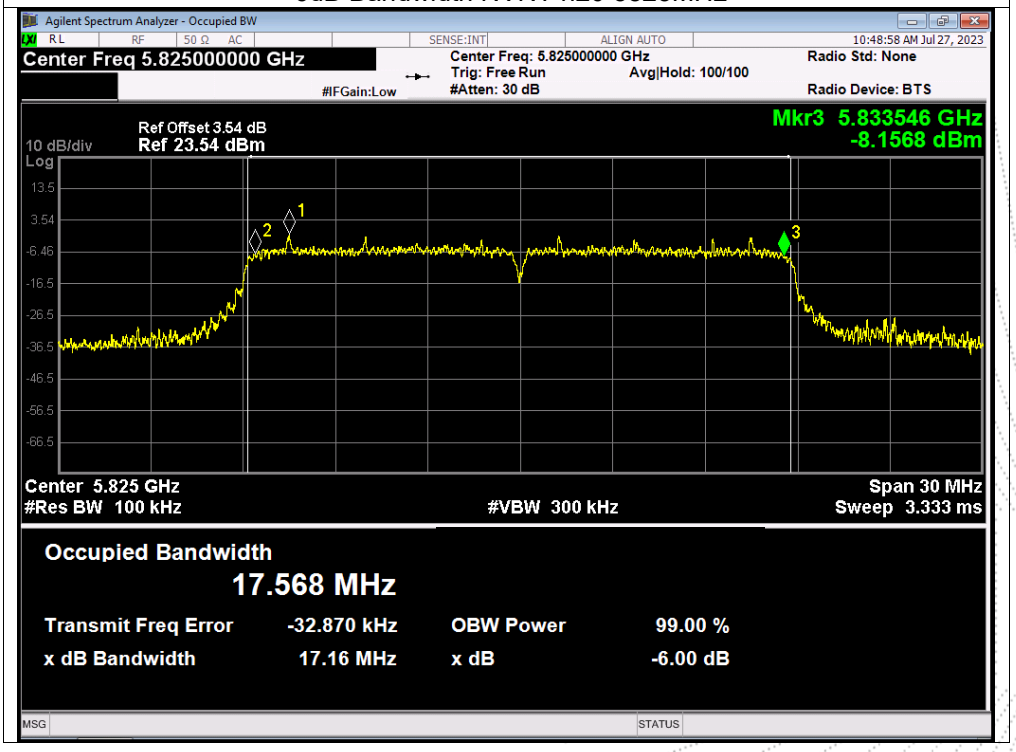
-6dB Bandwidth NVNT n20 5745MHz



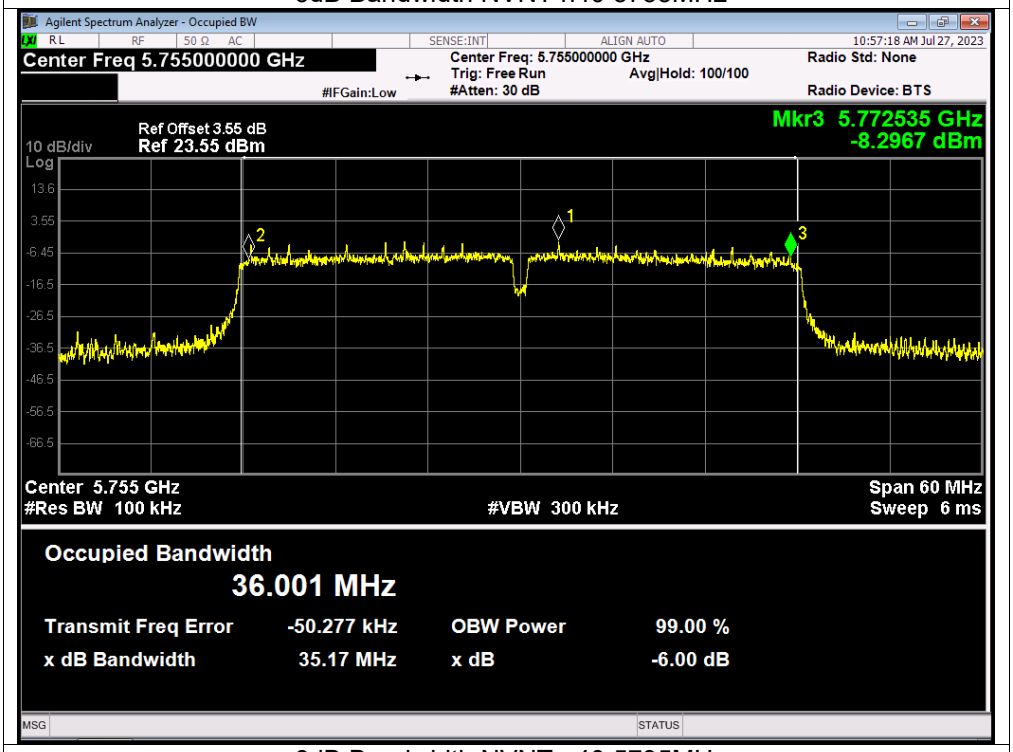
-6dB Bandwidth NVNT n20 5785MHz



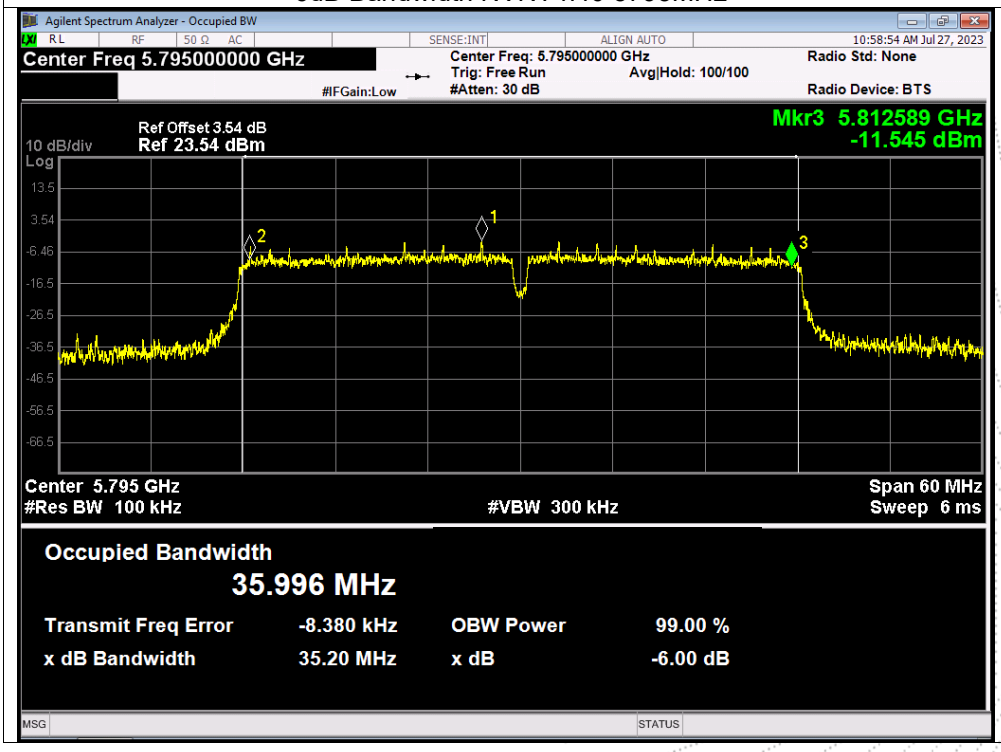
-6dB Bandwidth NVNT n20 5825MHz



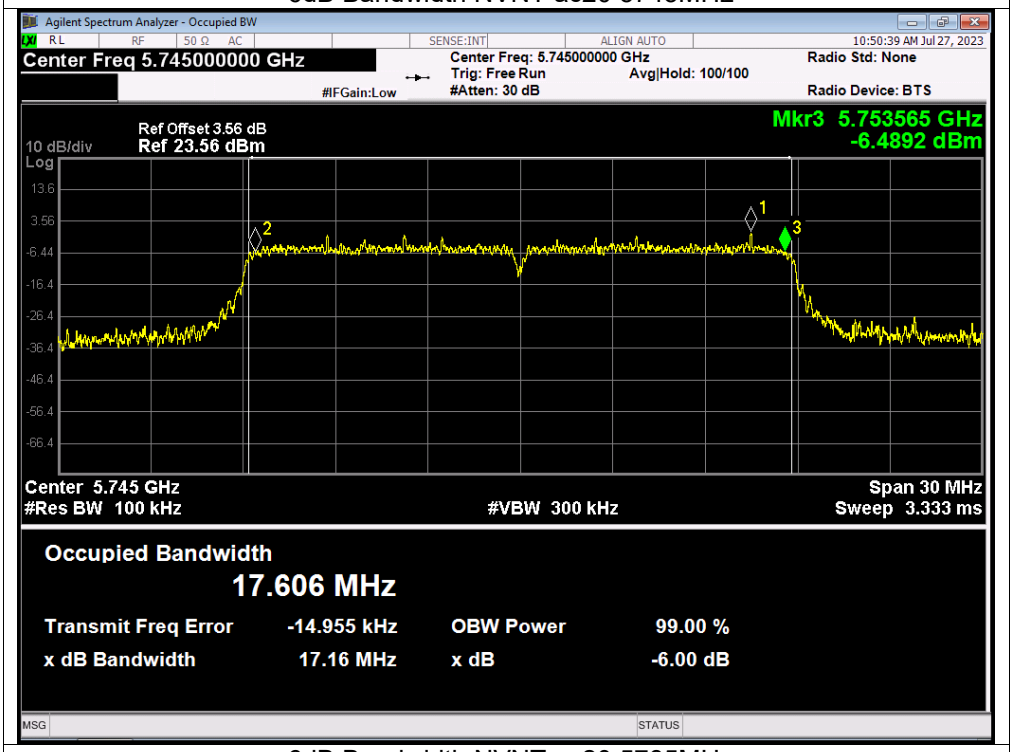
-6dB Bandwidth NVNT n40 5755MHz



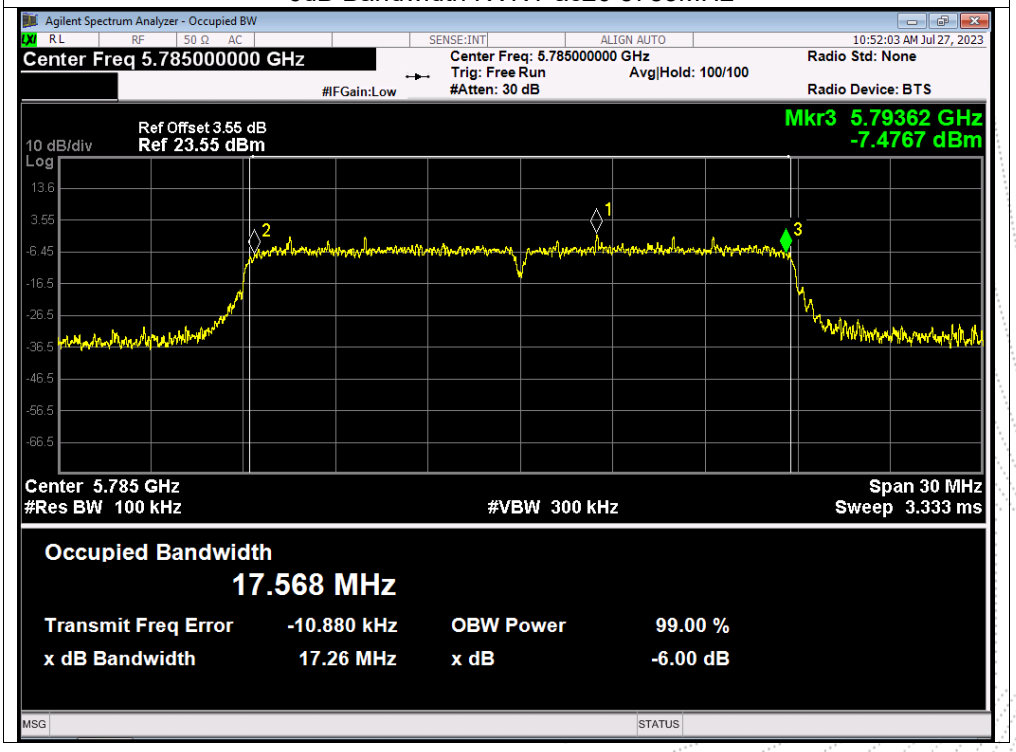
-6dB Bandwidth NVNT n40 5795MHz



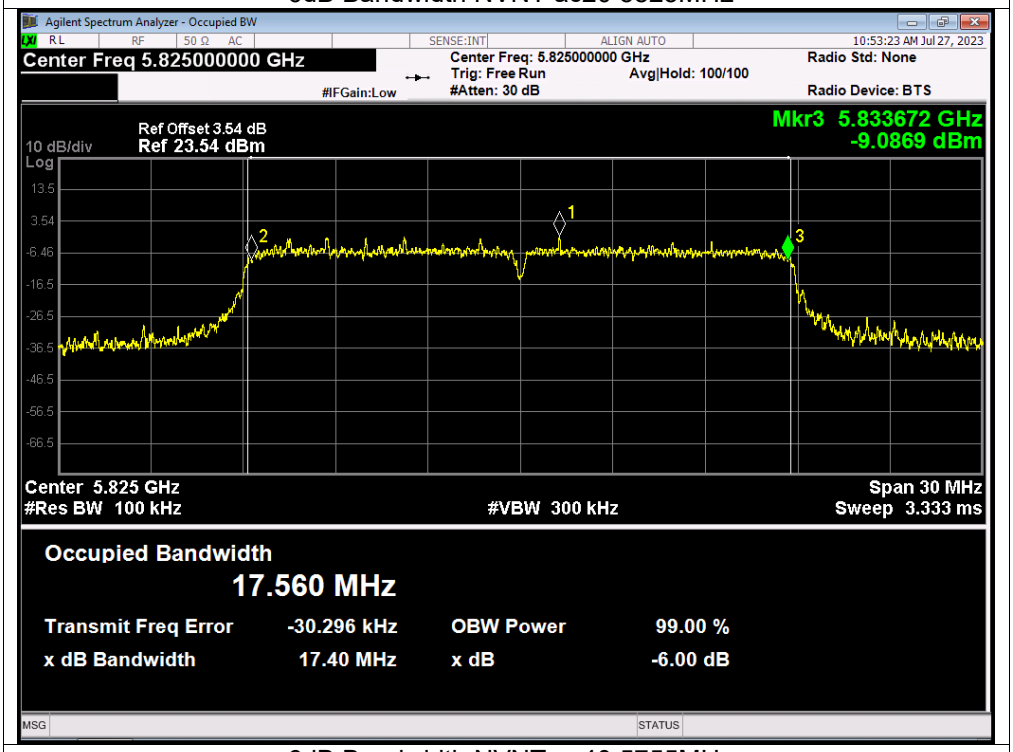
-6dB Bandwidth NVNT ac20 5745MHz



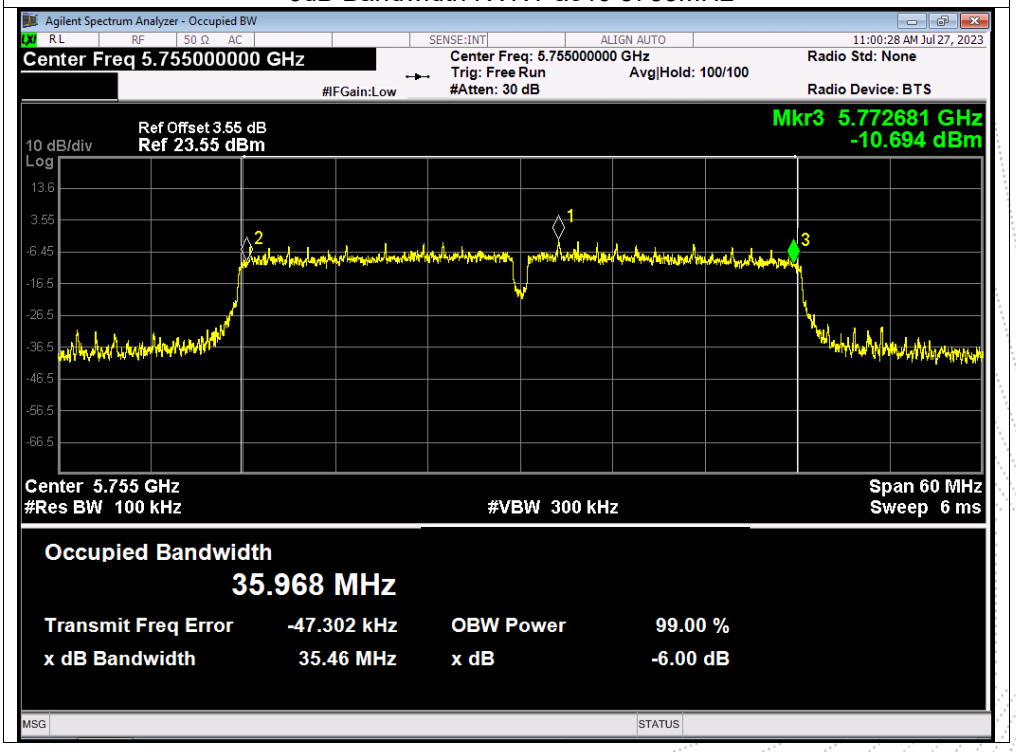
-6dB Bandwidth NVNT ac20 5785MHz



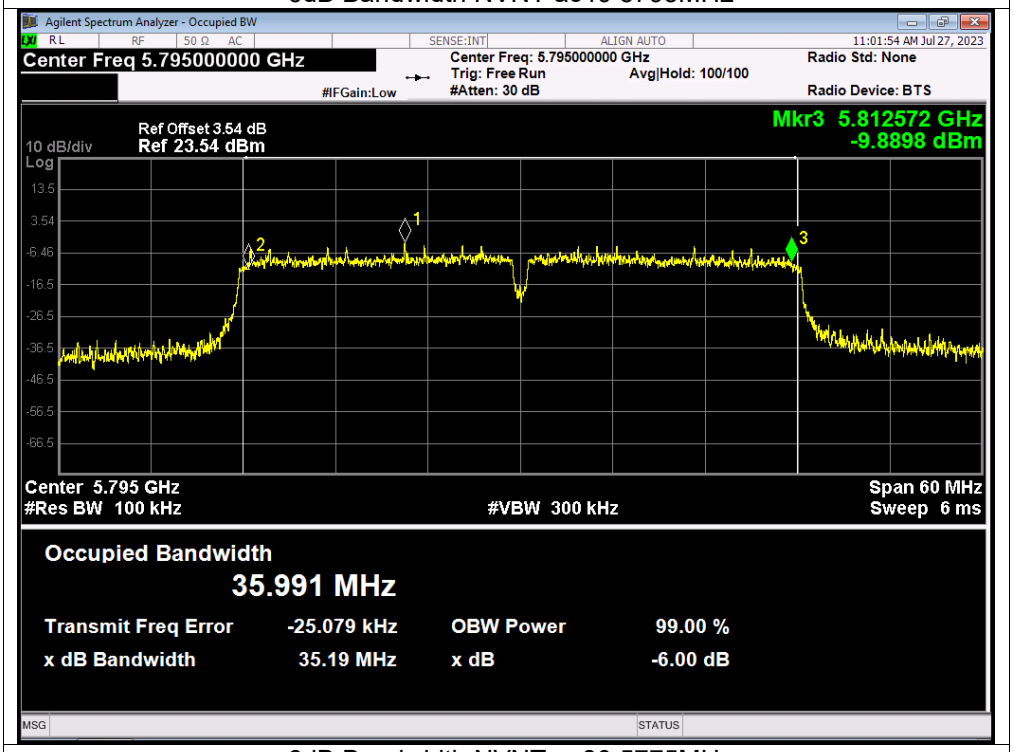
-6dB Bandwidth NVNT ac20 5825MHz



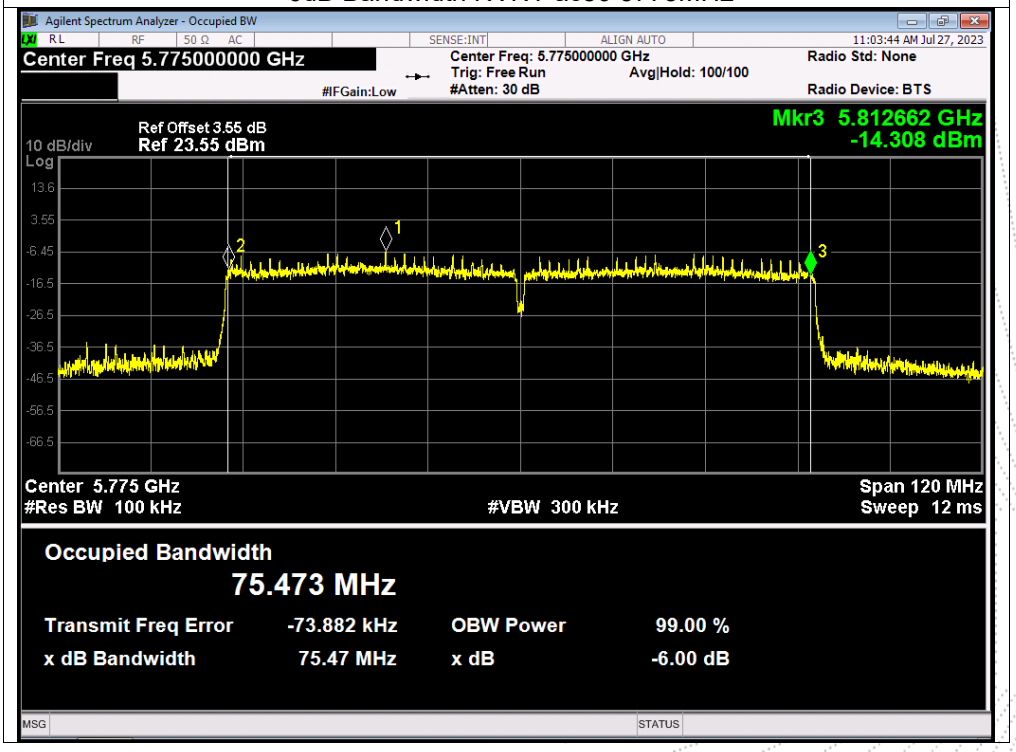
-6dB Bandwidth NVNT ac40 5755MHz



-6dB Bandwidth NVNT ac40 5795MHz

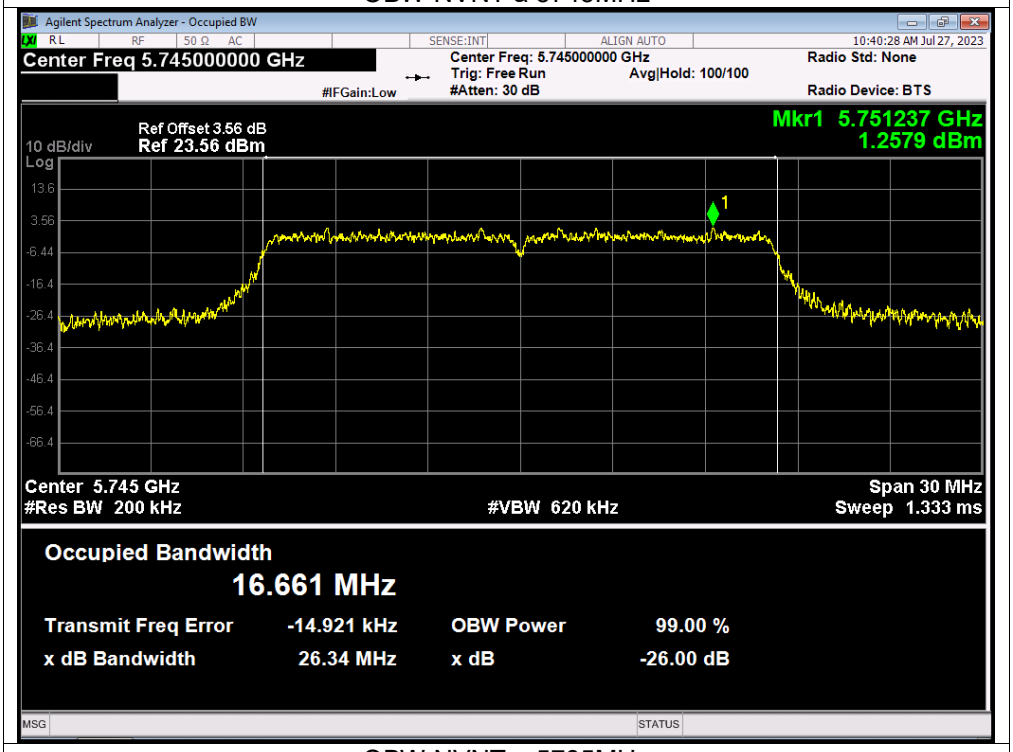


-6dB Bandwidth NVNT ac80 5775MHz

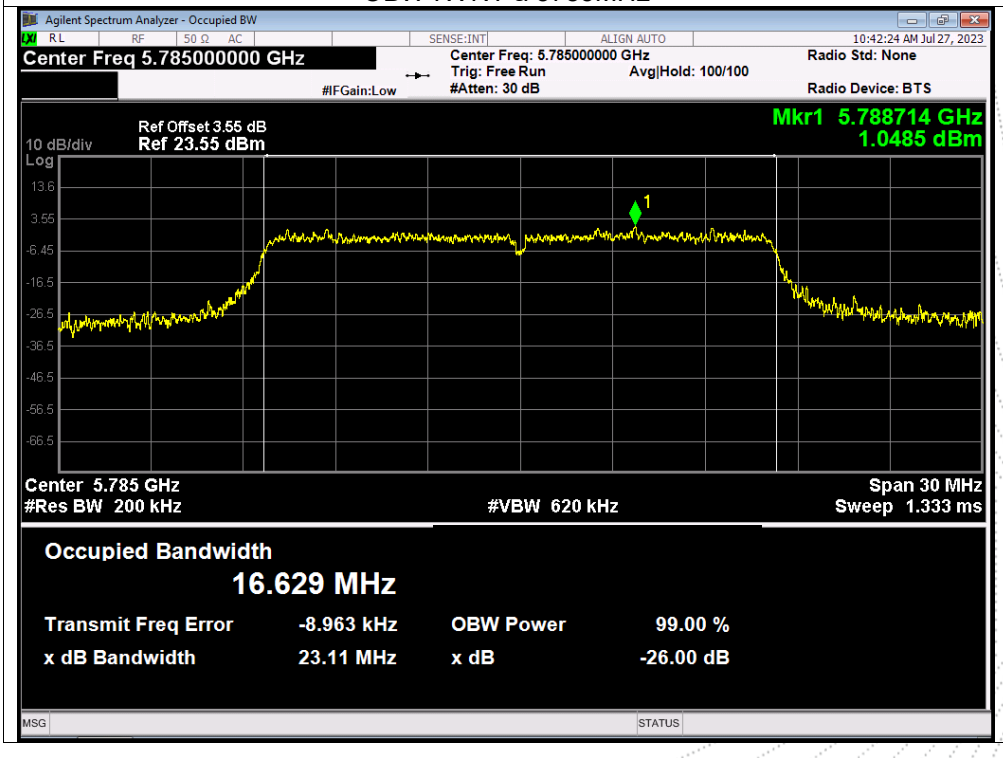


Test Graphs

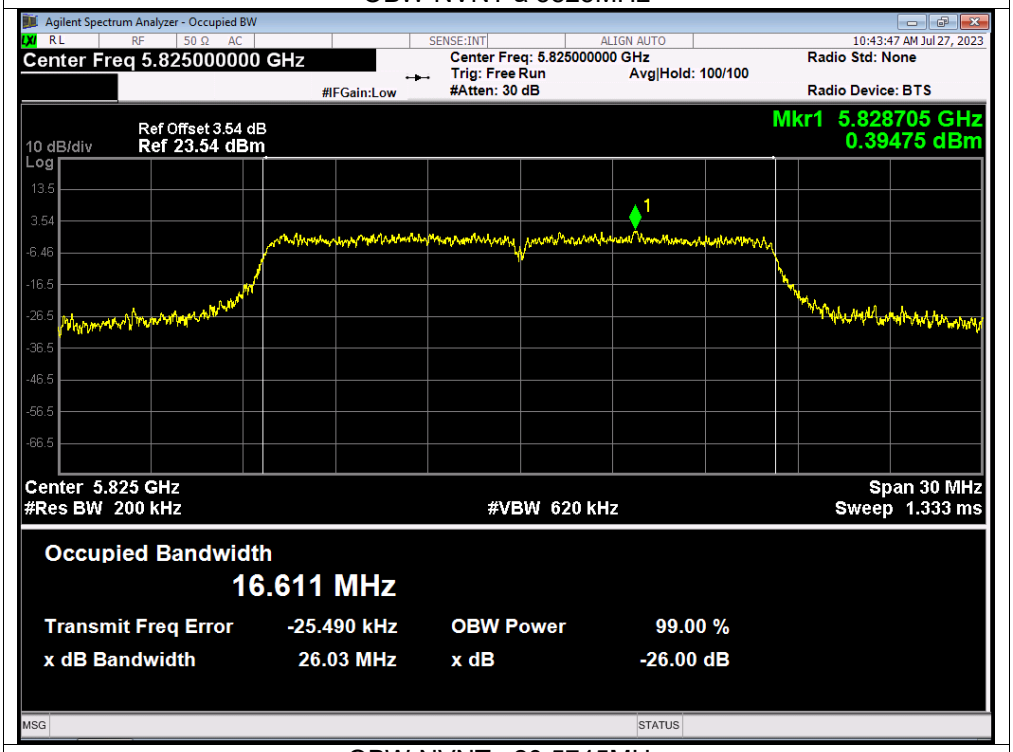
OBW NVNT a 5745MHz



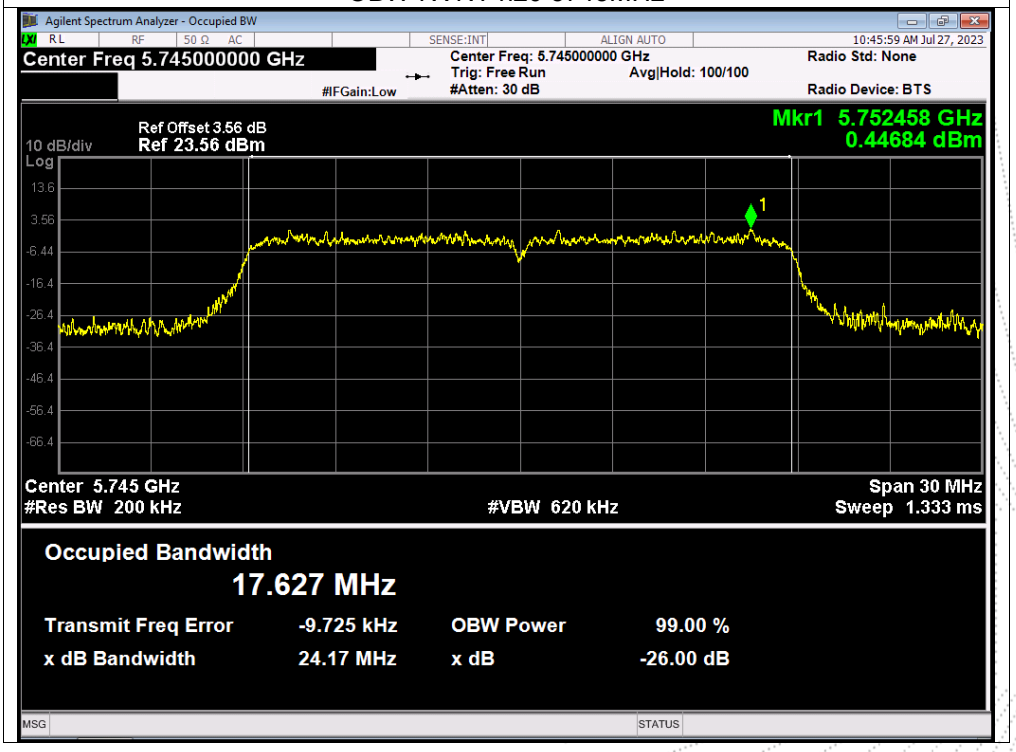
OBW NVNT a 5785MHz



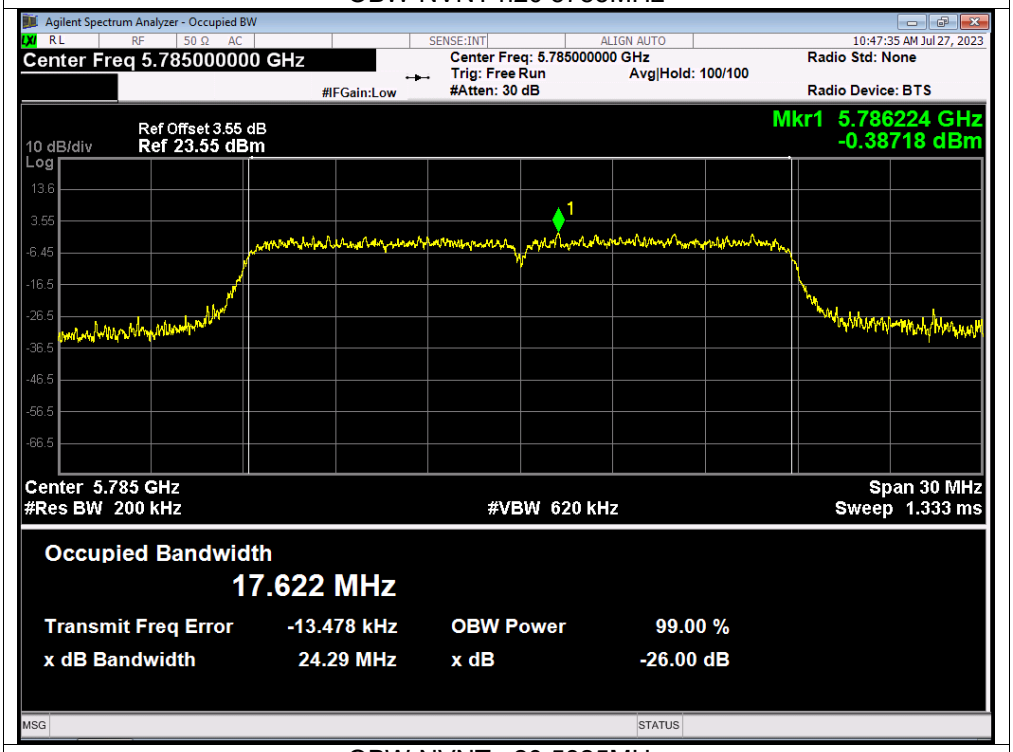
OBW NVNT a 5825MHz



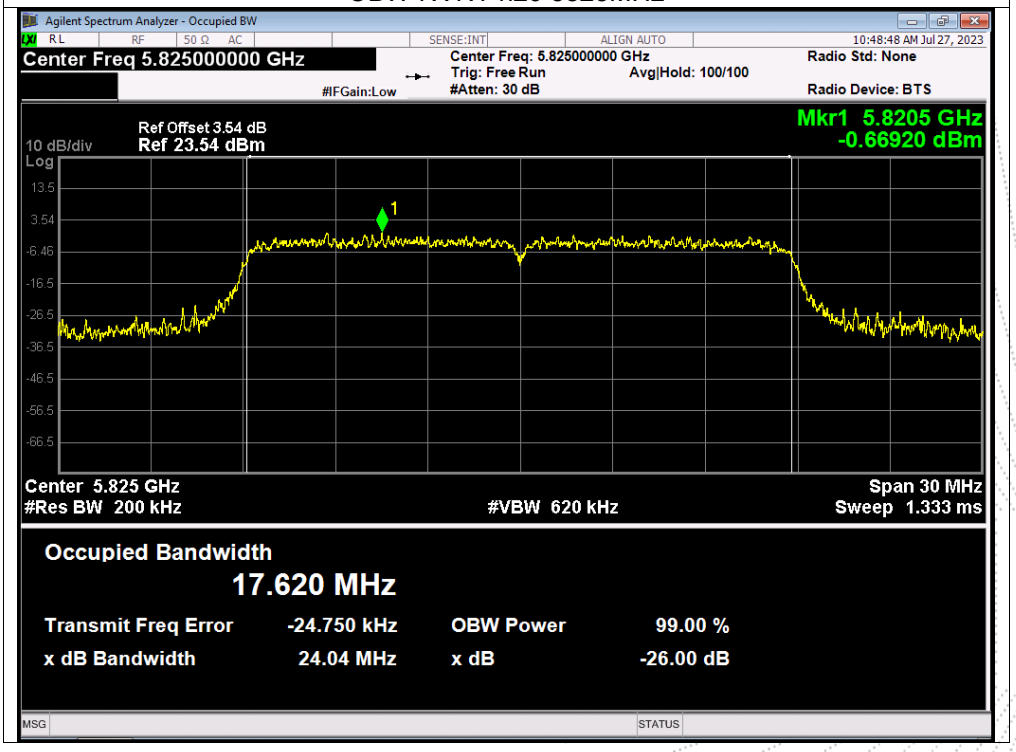
OBW NVNT n20 5745MHz



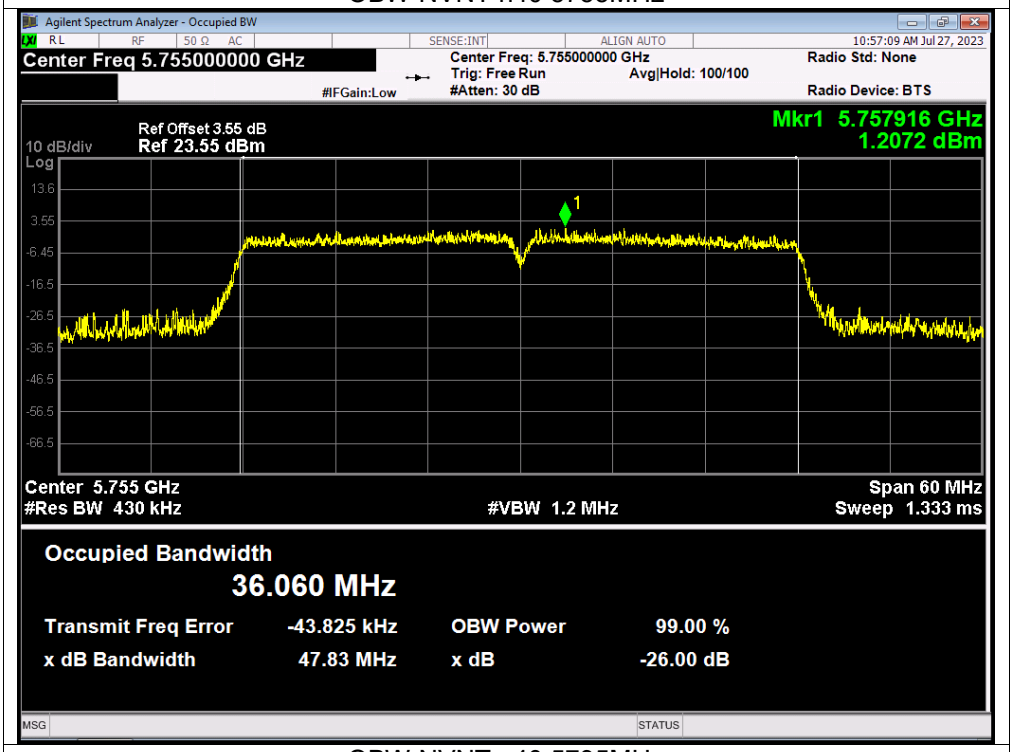
OBW NVNT n20 5785MHz



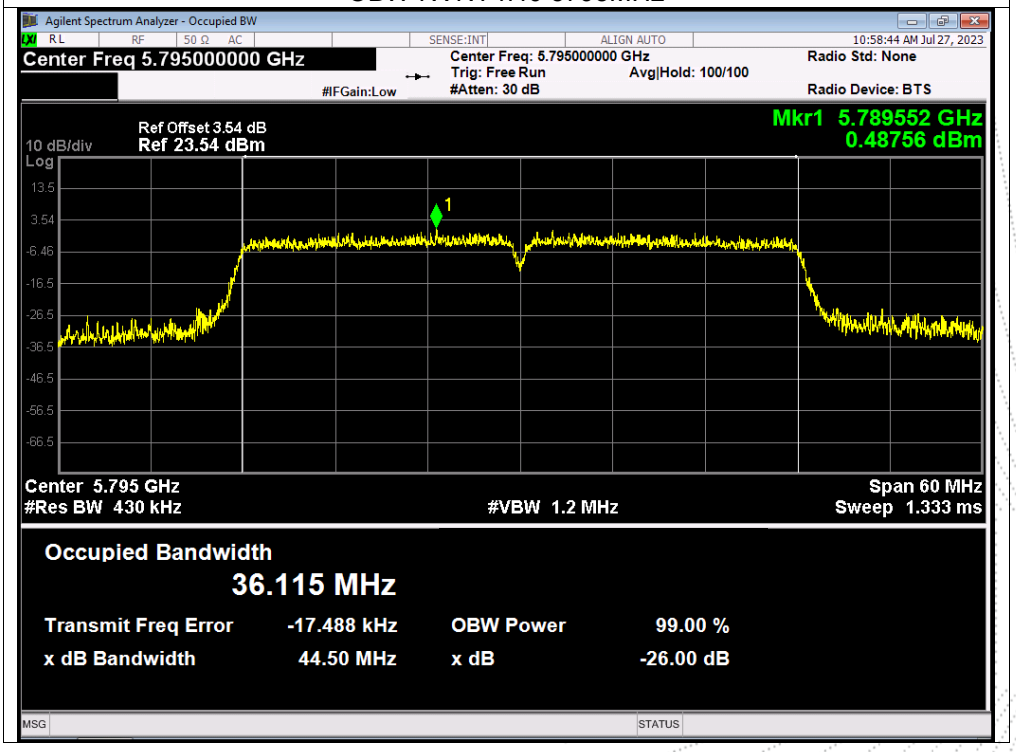
OBW NVNT n20 5825MHz



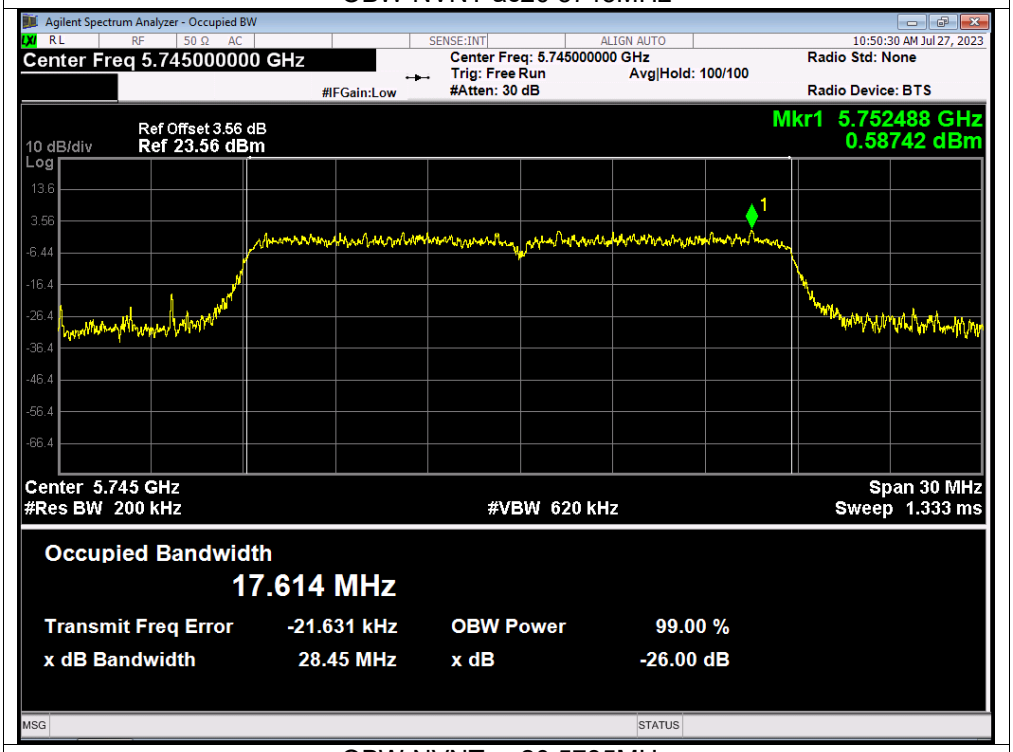
OBW NVNT n40 5755MHz



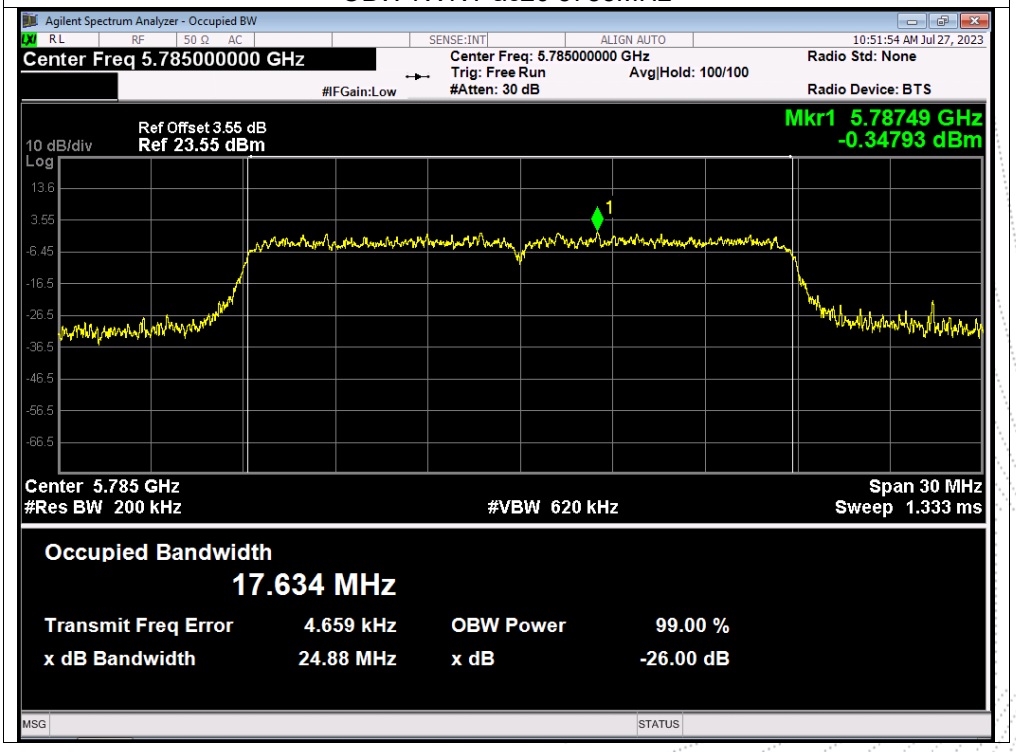
OBW NVNT n40 5795MHz



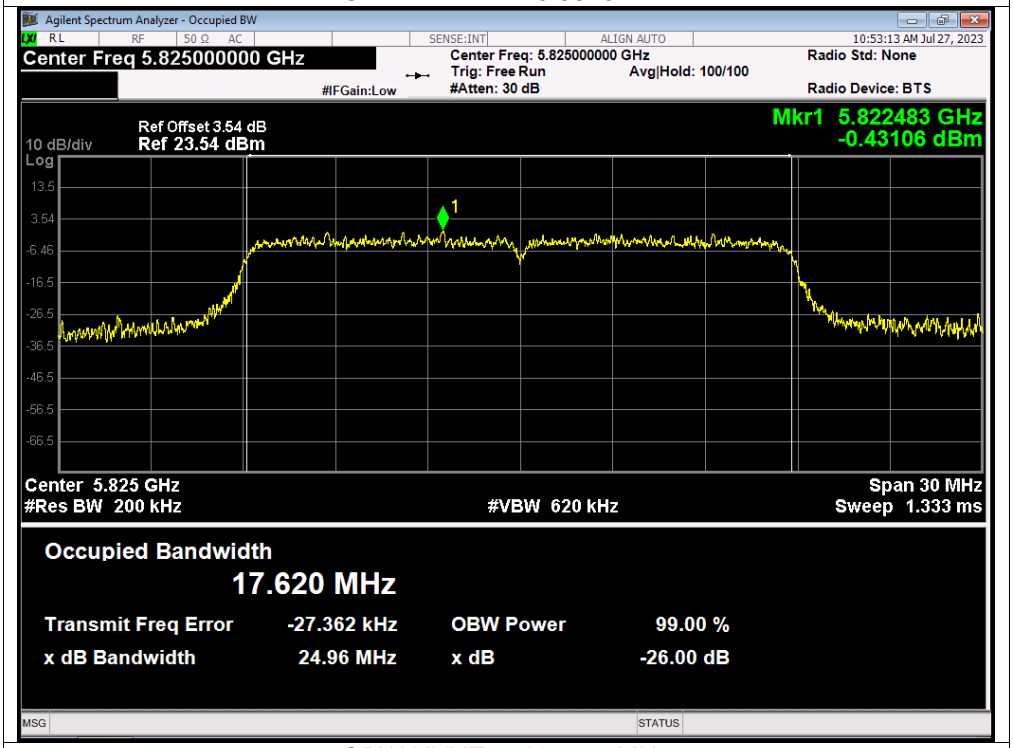
OBW NVNT ac20 5745MHz



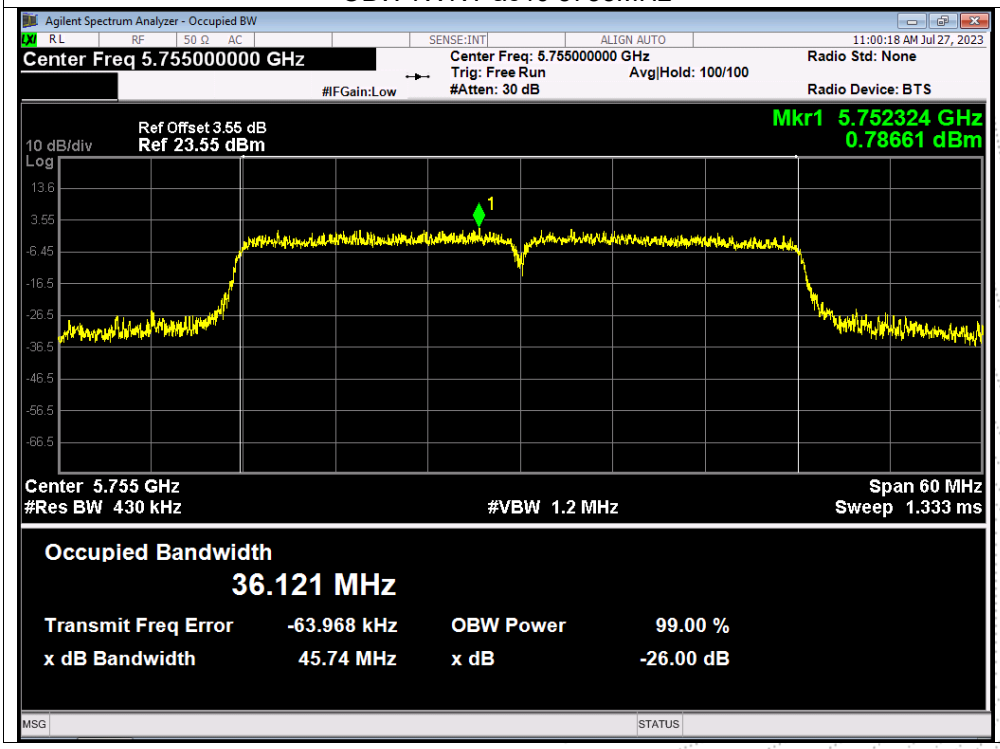
OBW NVNT ac20 5785MHz



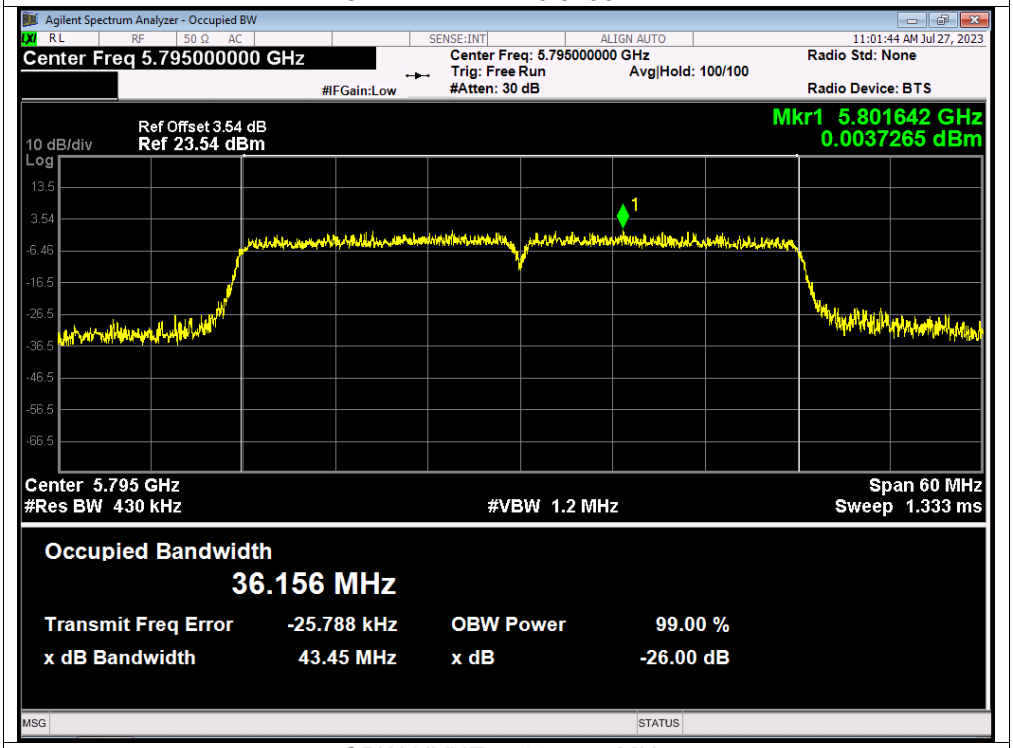
OBW NVNT ac20 5825MHz



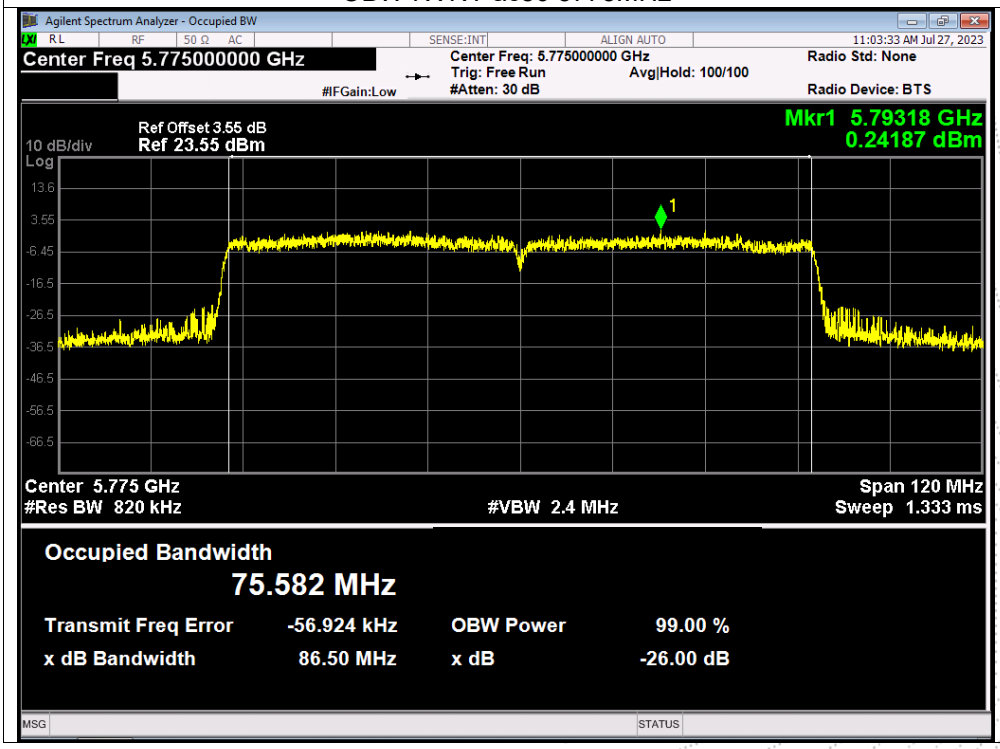
OBW NVNT ac40 5755MHz



OBW NVNT ac40 5795MHz

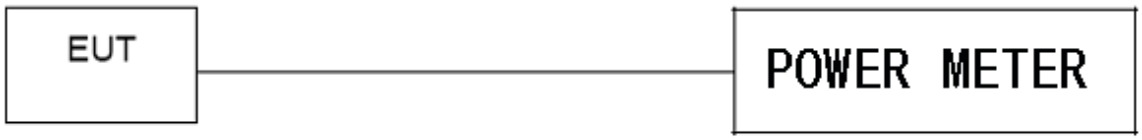


OBW NVNT ac80 5775MHz



10. Maximum Conducted Output Power

10.1 Block Diagram Of Test Setup



10.2 Limit

According to FCC §15.407

The maximum conduced output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725~5850	1W

10.3 Test Procedure

Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:

• The EUT transmits continuously (or with a duty cycle ≥ 98 percent).

• Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.

(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.

b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep ≥ 2 Span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.

(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

10.4 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.

10.5 Test Result

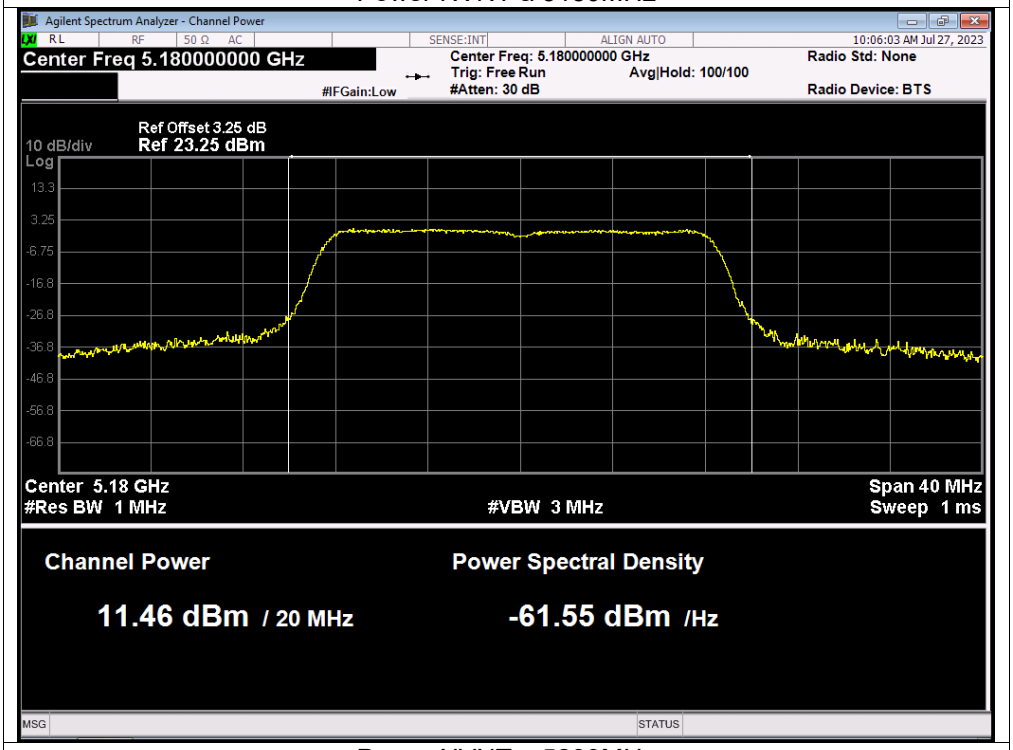
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 5V
Test Mode ：	TX (5.1G) Mode Frequency U-NII-1 (5180-5240MHz)		

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	11.46	24	Pass
NVNT	a	5200	11.05	24	Pass
NVNT	a	5240	9.91	24	Pass
NVNT	n20	5180	10.13	24	Pass
NVNT	n20	5200	9.23	24	Pass
NVNT	n20	5240	9.4	24	Pass
NVNT	n40	5190	8.86	24	Pass
NVNT	n40	5230	9.56	24	Pass
NVNT	ac20	5180	9.99	24	Pass
NVNT	ac20	5200	8.85	24	Pass
NVNT	ac20	5240	9.96	24	Pass
NVNT	ac40	5190	8.97	24	Pass
NVNT	ac40	5230	9.61	24	Pass
NVNT	ac80	5210	8.3	24	Pass

Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	101kPa	Test Voltage ：	DC 5V
Test Mode ：	TX (5.8G) Mode Frequency U-NII-3 (5745-5825MHz)		

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	11.59	30	Pass
NVNT	a	5785	10.7	30	Pass
NVNT	a	5825	10.42	30	Pass
NVNT	n20	5745	10.44	30	Pass
NVNT	n20	5785	9.67	30	Pass
NVNT	n20	5825	9.46	30	Pass
NVNT	n40	5755	9.01	30	Pass
NVNT	n40	5795	8.54	30	Pass
NVNT	ac20	5745	10.49	30	Pass
NVNT	ac20	5785	9.73	30	Pass
NVNT	ac20	5825	9.38	30	Pass
NVNT	ac40	5755	9.48	30	Pass
NVNT	ac40	5795	8.67	30	Pass
NVNT	ac80	5775	7.9	30	Pass

Test Graphs
Power NVNT a 5180MHz



Power NVNT a 5200MHz