

Radio Test Report

FCC ID: 2APBP-CS30

Original Grant

Report No. : TB-FCC179354
Applicant : Ciontek Technology Corp.
Equipment Under Test (EUT)
EUT Name : Handheld Smart POS
Model No. : CS30
Series Model No. : CS30PRO, CS30LITE, CS30S, CS30V, CS30MINI, CS30A, CS30C, CS31, CS32
Sample ID : Ciontek
Brand Name : 20200916-08-01#& 20200916-08-02#
Receipt Date : 2021-03-22
Test Date : 2021-03-23 to 2021-05-25
Issue Date : 2021-05-28
Standards : FCC Part 15, Subpart E 15.407
Test Method : ANSI C63.10: 2013
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above.

Test/Witness Engineer : *Rebecca*
Test/Witness Engineer : *WAN SU*
Engineer Manager : *Ray Lai*



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

Contents

CONTENTS.....2

1. GENERAL INFORMATION ABOUT EUT.....5

1.1 Client Information5

1.2 General Description of EUT (Equipment Under Test)5

1.3 Block Diagram Showing the Configuration of System Tested.....6

1.4 Description of Support Units6

1.5 Description of Test Mode.....7

1.6 Description of Test Software Setting8

1.7 Measurement Uncertainty9

1.8 Test Facility.....9

2. TEST SUMMARY.....10

3. TEST SOFTWARE.....10

4. TEST EQUIPMENT.....11

5. CONDUCTED EMISSION TEST12

5.1 Test Standard and Limit.....12

5.2 Test Setup.....12

5.3 Test Procedure.....13

5.4 Deviation From Test Standard.....13

5.5 EUT Operating Mode13

5.6 Test Data.....13

6. RADIATED EMISSION TEST14

6.1 Test Standard and Limit.....14

6.2 Test Setup.....15

6.3 Test Procedure.....17

6.4 Deviation From Test Standard.....17

6.5 EUT Operating Condition17

6.6 Test Data.....17

7. BAND EDGE EMISSIONS18

7.1 Test Standard and Limit.....18

7.2 Test Setup.....19

7.3 Test Procedure.....19

7.4 Deviation From Test Standard.....20

7.5 EUT Operating Condition20

7.6 Test Data.....20

8. BANDWIDTH TEST.....21

8.1 Test Standard and Limit.....21

8.2 Test Setup.....21

8.3 Test Procedure.....21

8.4 Deviation From Test Standard.....22

8.5 EUT Operating Condition22

8.6 Test Data.....	22
9. OUTPUT POWER TEST.....	23
9.1 Test Standard and Limit.....	23
9.2 Test Setup.....	23
9.3 Test Procedure.....	23
9.4 Deviation From Test Standard.....	23
9.5 EUT Operating Condition	23
9.6 Test Date.....	23
10. POWER SPECTRAL DENSITY TEST	24
10.1 Test Standard and Limit	24
10.2 Test Setup.....	24
10.3 Test Procedure.....	24
10.4 Deviation From Test Standard.....	25
10.5 EUT Operating Condition	25
10.6 Test Data.....	25
11. FREQUENCY STABILITY MEASUREMENT	26
11.1 Test Standard and Limit	26
11.2 Test Setup.....	26
11.3 Test Procedure.....	26
11.4 Deviation From Test Standard.....	26
11.5 EUT Operating Condition	26
11.6 Test Data.....	26
12. ANTENNA REQUIREMENT.....	27
12.1 Standard Requirement.....	27
12.2 Antenna Connected Construction.....	27
12.3 Deviation From Test Standard.....	27
12.4 Result.....	27
ATTACHMENT A-- CONDUCTED EMISSION TEST DATA	28
ATTACHMENT B-- UNWANTED EMISSIONS DATA	30
ATTACHMENT C-- RESTRICTED BANDS REQUIREMENT AND BAND-EDGE TEST DATA	48
ATTACHMENT D--BANDWIDTH TEST DATA	72
-6DB BANDWIDTH.....	77
ATTACHMENT E--AVG OUTPUT POWER TEST DATA	82
ATTACHMENT F-- POWER SPECTRAL DENSITY TEST DATA.....	90
ATTACHMENT G----FREQUENCY STABILITY MEASUREMENT DATA.....	99

1. General Information about EUT

1.1 Client Information

Applicant	:	Ciontek Technology Corp.
Address	:	B501, Chanxueyan Building Wuhan University, No.6 Of Yuexing 2nd Road, Yuehai Street, Nanshan District, Shenzhen, China
Manufacturer	:	Ciontek Technology Corp.
Address	:	B501, Chanxueyan Building Wuhan University, No.6 Of Yuexing 2nd Road, Yuehai Street, Nanshan District, Shenzhen, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Handheld Smart POS
Model No.	:	CS30, CS30PRO, CS30LITE, CS30S, CS30V, CS30MINI, CS30A, CS30C, CS31, CS32
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.
Product Description	:	Operation Frequency: U-NII-1: 5180MHz~5240MHz, U-NII-3: 5745MHz~5825MHz
	Number of Channel:	Please see Note(2)
	Antenna Gain:	0.7dBi PIFA Antenna
	Modulation Type:	802.11a: OFDM (QPSK, BPSK, 16QAM, 64QAM) 802.11n: OFDM (QPSK, BPSK, 16QAM, 64QAM)
	Bit Rate of Transmitter:	Using 20MHz bandwidth, data rate up to 173.3 Mbps Using 40MHz bandwidth, data rate up to 400 Mbps
Power Rating	:	Adapter(XS12-050200U) Input: 100-240V~, 50/60Hz, 0.5A Output: DC5V2A
Li-ion Polymer Battery	:	7.6V, 2600mAh, 19.76Wh
Software Version	:	a51_v0.01_20210316c
Hardware Version	:	CS30HWV2.0
Remark	:	The antenna gain and adapter provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.

Note:

- (1) More detailed features description, please refer to the manufacturer's specifications or the User's Manual.

(2) Channel List:

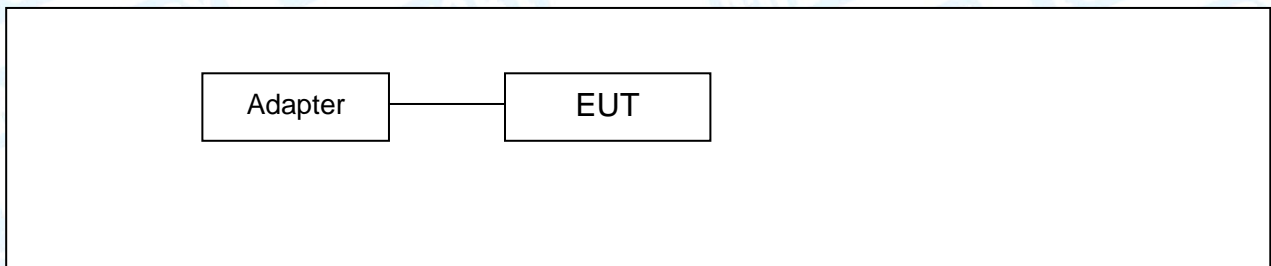
Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5180~5240MHz (U-NII-1)	36	5180 MHz	44	5220 MHz
	38	5190 MHz	46	5230 MHz
	40	5200 MHz	48	5240 MHz
	/	/		

For 20 MHz Bandwidth, use channel 36, 40, 44, 48; For 40 MHz Bandwidth, use channel 38, 46.

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5745~5825MHz (U-NII-3)	149	5745 MHz	157	5785 MHz
	151	5755 MHz	159	5795 MHz
	153	5765 MHz	161	5805 MHz
	/	/	165	5825 MHz

For 20 MHz Bandwidth, use channel 149, 153, 157, 161, 165. For 40 MHz Bandwidth, use channel 151, 159.

1.3 Block Diagram Showing the Configuration of System Tested



1.4 Description of Support Units

Equipment Information				
Name	Model	FCC ID/VOC	Manufacturer	Used “√”
----	-----	----	----	√
Cable Information				
Number	Shielded Type	Ferrite Core	Length	Note
Cable 1	Yes	NO	1.0M	Accessory

1.5 Description of Test Mode

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

For Conducted Test		
Final Test Mode	Description	
Mode 1	Charging + TX a Mode(5180MHz)	
For Radiated Test Below 1GHz		
Final Test Mode	Description	
Mode 2	Charging + TX a Mode(5180MHz)	
For Radiated Above 1GHz and RF Conducted Test		
Test Band	Final Test Mode	Description
U-NII-1	Mode 3	TX Mode 802.11a Mode Channel 36/40/48
	Mode 4	TX Mode 802.11n(HT20) Mode Channel 36/40/48
	Mode 5	TX Mode 802.11n(HT40) Mode Channel 38/46
U-NII-3	Mode 6	TX Mode 802.11a Mode Channel 149/157/165
	Mode 7	TX Mode 802.11n(HT20) Mode Channel 149/157/165
	Mode 8	TX Mode 802.11n(HT40) Mode Channel 151/159

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

802.11a Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0

802.11n (HT40) Mode: MCS 0

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a portable device; it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

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

Test Software: QRCT		
U-NII-1		
Mode	Frequency (MHz)	Parameters
802.11a	5180	DEF
	5200	DEF
	5240	DEF
802.11n(HT20)	5180	DEF
	5200	DEF
	5240	DEF
802.11n(HT40)	5190	DEF
	5230	DEF
U-NII-3		
Mode	Frequency (MHz)	Parameters
802.11a	5745	DEF
	5785	DEF
	5825	DEF
802.11n(HT20)	5745	DEF
	5785	DEF
	5825	DEF
802.11n(HT40)	5755	DEF
	5795	DEF

1.7 Measurement Uncertainty

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

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

1.8 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at: 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

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

A2LA Certificate No.: 4750.01

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

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

2. Test Summary

FCC Part 15 Subpart E(15.407)				
Standard Section	Test Item	Sample ID	Judgment	Remark
15.203	Antenna Requirement	20200916-08-2#	PASS	N/A
15.207	Conducted Emission	20200916-08-1#	PASS	N/A
15.407(b)	Band Edge Emissions	20200916-08-2#	PASS	N/A
15.407(a)	26dB Bandwidth&99% Bandwidth	20200916-08-2#	PASS	N/A
15.407(e)	6dB Bandwidth(only for UNII-3)	20200916-08-2#	PASS	N/A
15.407(a)	AVG Output Power	20200916-08-2#	PASS	N/A
15.407(a)	Power Spectral Density	20200916-08-1# 20200916-08-2#	PASS	N/A
15.407(b) 15.205&15.209	Transmitter Radiated Spurious Emission	20200916-08-1# 20200916-08-2#	PASS	N/A
15.407(g)	Frequency Stability	20200916-08-2#	PASS	N/A

Note: “/” for no requirement for this test item.
N/A is an abbreviation for Not Applicable.

3. Test Software

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

4. Test Equipment

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

5. Conducted Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard
FCC Part 15.207

5.1.2 Test Limit

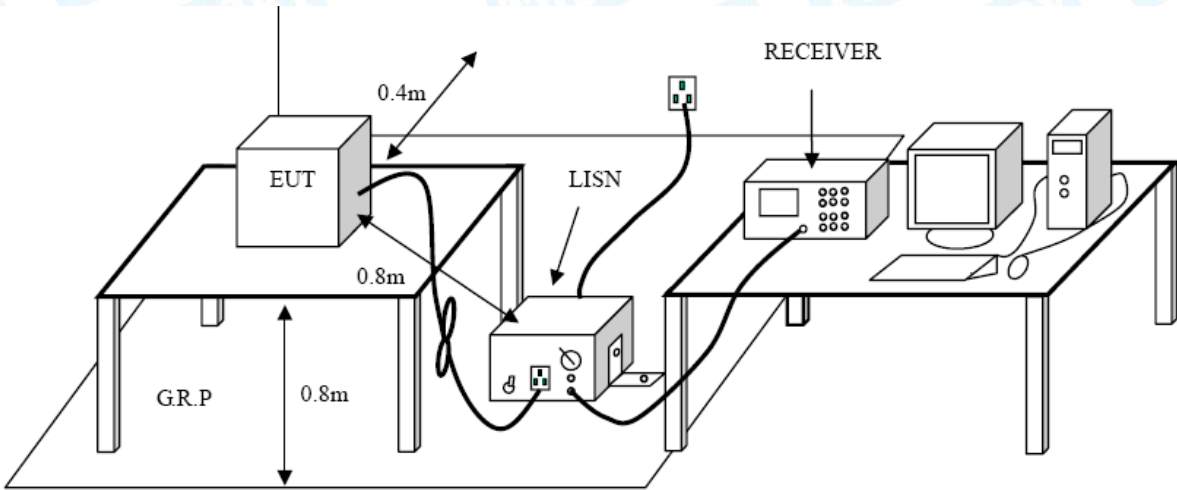
Conducted Emission Test Limit

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

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.2 Test Setup



5.3 Test Procedure

- (1) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.
- (2) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (3) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (4) LISN at least 80 cm from nearest part of EUT chassis.
- (5) The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 Test Data

Please refer to the Attachment A.

6. Radiated Emission Test

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.209

6.1.2 Test Limit

General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field strength ($\mu\text{V/m}$ at 3 m)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

General field strength limits at frequencies Above 1000MHz

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

Note:

(1) The tighter limit applies at the band edges.

(2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

General field strength limits at frequencies Below 30MHz

Frequency (MHz)	Field Strength ($\mu\text{A/m}$)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	6.37/F (F in kHz)	2400/F(KHz)	300
0.490~1.705	63.7/F (F in kHz)	24000/F(KHz)	30
1.705~30.0	0.08	30	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Limits of unwanted emission out of the restricted bands

Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27(Note 2)	68.3
	10(Note 2)	105.3
	15.6(Note 2)	110.9
	27(Note 2)	122.3

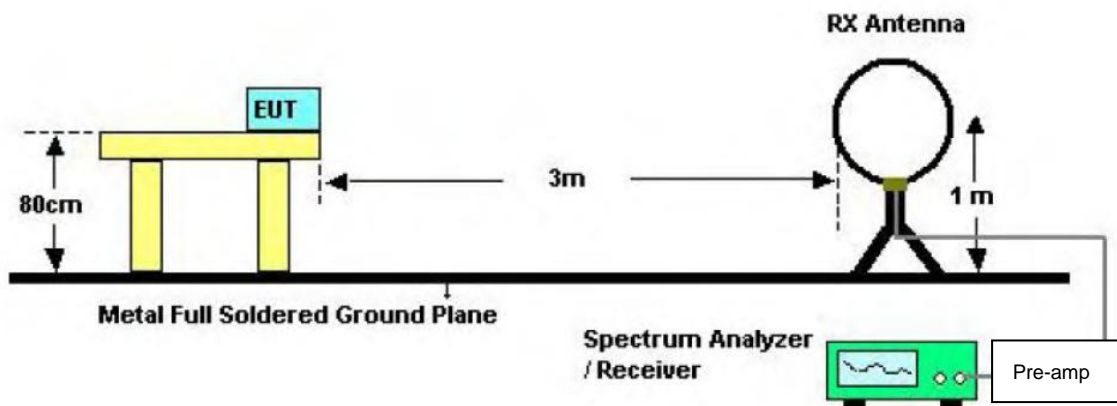
NOTE:

1, The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

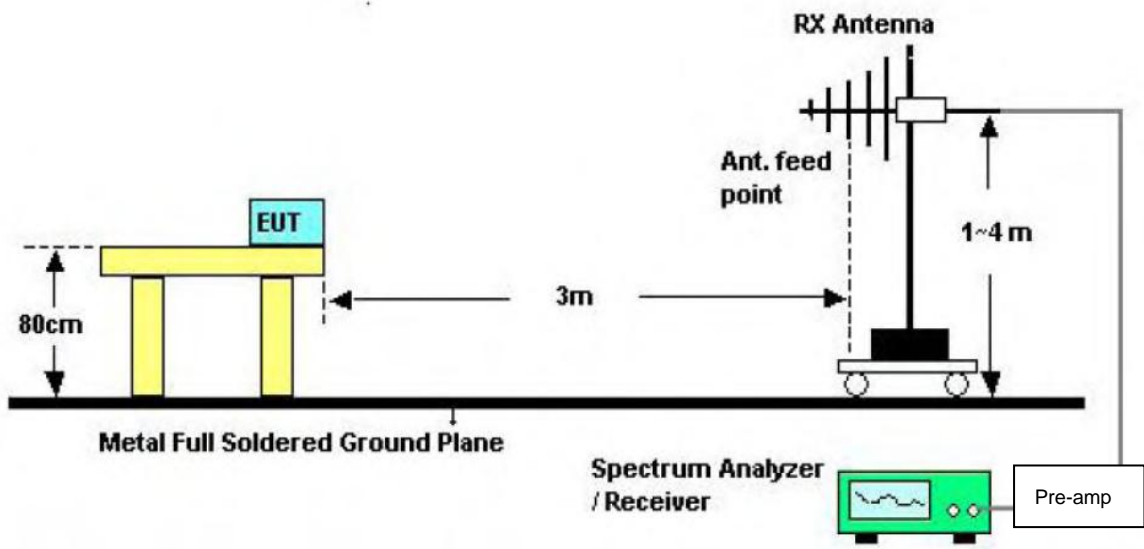
$$E = \frac{1000000\sqrt{30P}}{3} \text{ uV/m, where P is the eirp (Watts)}$$

2, According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

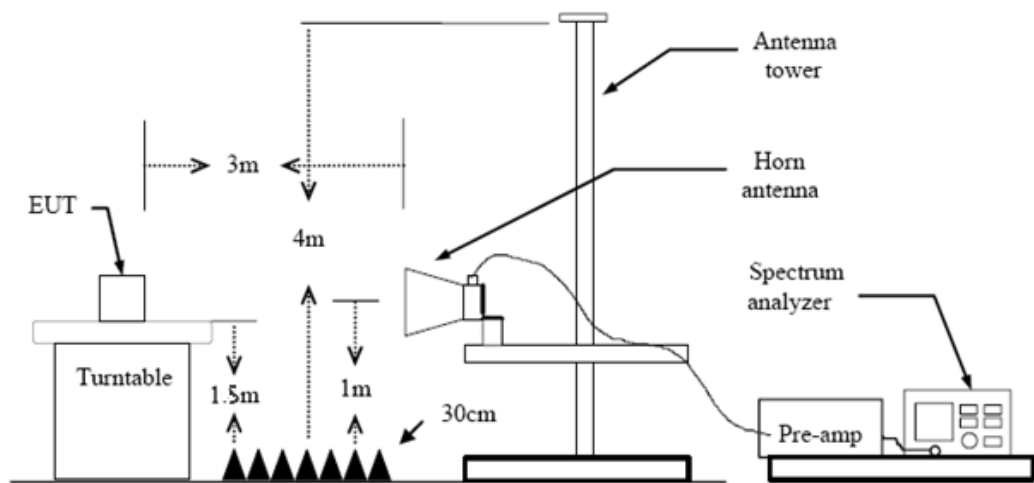
6.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

6.3 Test Procedure

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

6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Condition

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

6.6 Test Data

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

Please refer to the Attachment B.

7. Band Edge Emissions

7.1 Test Standard and Limit

7.1.1 Test Standard
FCC Part 15.407(b)

7.1.2 Test Limit

Limits of unwanted emission out of the restricted bands

Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27(Note 2)	68.3
	10(Note 2)	105.3
	15.6(Note 2)	110.9
	27(Note 2)	122.3

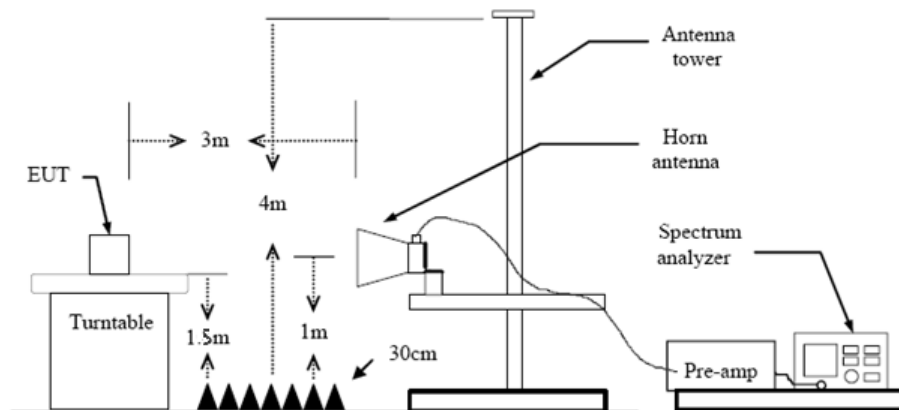
NOTE:

1, The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \text{ uV/m, where P is the eirp (Watts)}$$

2, According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

7.2 Test Setup



7.3 Test Procedure

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

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Condition

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

7.6 Test Data

Please refer to the Attachment C.

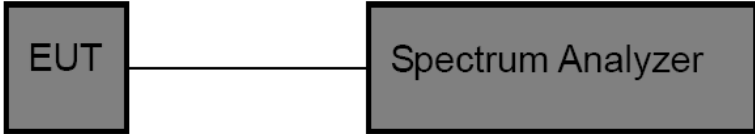
8. Bandwidth Test

8.1 Test Standard and Limit

- 8.1.1 Test Standard
FCC Part 15.407
- 8.1.2 Test Limit

RSS-247		
Test Item	Limit	Frequency Range (MHz)
26 Bandwidth	N/A	5150~5250
		5250~5350
		5500~5725
6 dB Bandwidth	>500kHz	5725~5850

8.2 Test Setup



8.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The setting of the spectrum analyser as below:

26dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>26 dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	VBW>RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>6 dB Bandwidth
RBW	100 kHz
VBW	VBW \geq 3*RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99% Occupied Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
RBW	1% to 5% of the OBW
VBW	\geq 3RBW
Detector	Peak
Trace	Max Hold

8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

8.6 Test Data

Please refer to the Attachment D.

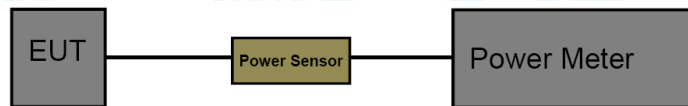
9. Output Power Test

9.1 Test Standard and Limit

- 9.1.1 Test Standard
FCC Part 15.407 (a)
- 9.1.2 Test Limit

FCC Part 15 Subpart E(15.407)		
Test Item	Limit	Frequency Range(MHz)
Conducted Output Power	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250
	250mW (24dBm)	5250~5350
	250mW (24dBm)	5500~5700
	1 Watt (30dBm)	5725~5850

9.2 Test Setup



9.3 Test Procedure

The measurement is according to section 3 of KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

The EUT was connected to RF power meter via a broadband power sensor as show the block above.

9.4 Deviation From Test Standard

No deviation

9.5 EUT Operating Condition

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

9.6 Test Date

Please refer to the Attachment E.

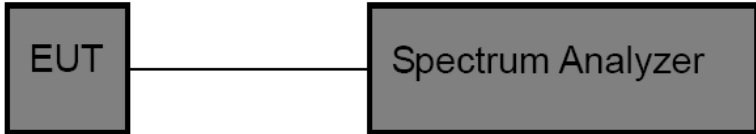
10. Power Spectral Density Test

10.1 Test Standard and Limit

- 10.1.1 Test Standard
FCC Part 15.407 (a)
- 10.1.2 Test Limit

FCC Part 15 Subpart E(15.407)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	10dBm/MHz EIRP PSD	5150~5250
	11dBm/MHz	5250~5350
	11dBm/MHz	5500~5725
	30dBm/500kHz	5725~5850

9.2 Test Setup



10.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser centre frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW)(alternatively, the entire 99% OBW) of the signal.
- (4) Set the RBW to: 1 MHz
- (5) Set the VBW to: 3 MHz
- (6) Detector: RMS
- (7) Trace: Max Hold
- (7) Sweep time: auto
- (8) Trace average at least 100 traces in power averaging.
- (9) User the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

10.4 Deviation From Test Standard

No deviation

10.5 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

10.6 Test Data

Please refer to the Attachment F.

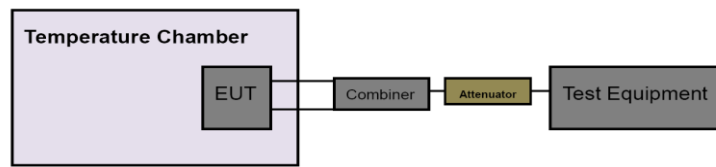
11. Frequency Stability Measurement

11.1 Test Standard and Limit

- 11.1.1 Test Standard
FCC Part 15.407
- 11.1.2 Test Limit

Test Item	Limit	Frequency Range (MHz)
Peak Excursion Measurement	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	5150~5250
		5250~5350
		5500~5720
		5725~5850

11.2 Test Setup



11.3 Test Procedure

- The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.
- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
 - (2) Set analyser centre frequency to transmitting frequency.
 - (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
 - (4) Set the RBW to: 10 kHz, VBW=10 kHz with peak detector and maxhold settings.
 - (5) The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
 - (6) Extreme temperature is 0°C~50°C

11.4 Deviation From Test Standard

No deviation

11.5 EUT Operating Condition

The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

11.6 Test Data

Please refer to the Attachment G.

12. Antenna Requirement

12.1 Standard Requirement

12.1.1 Standard

FCC Part 15.203

12.1.2 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

12.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 0.7dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

12.3 Deviation From Test Standard

No deviation

12.4 Result

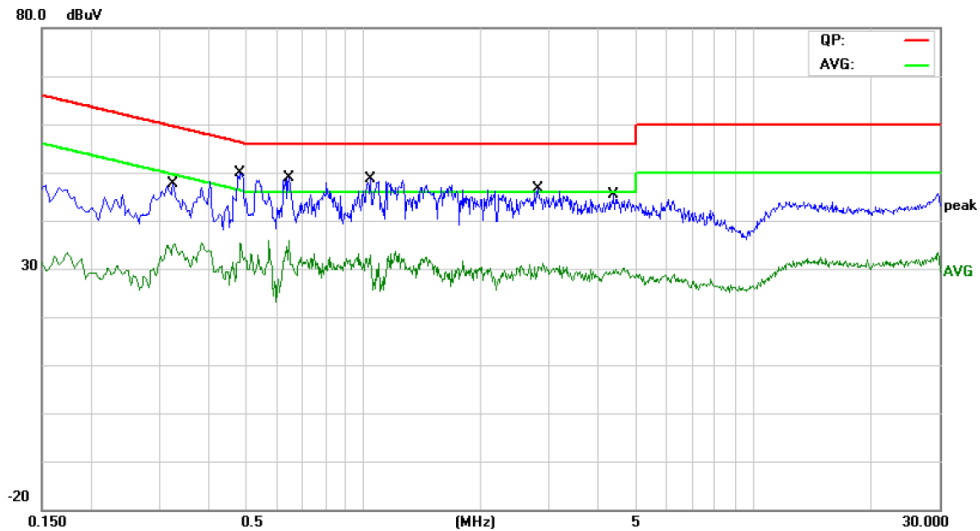
The EUT antenna is a PIFA Antenna. It complies with the standard requirement.

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

Attachment A-- Conducted Emission Test Data

Remark: All channels have been tested and Shows only the worst channels.

Temperature:	24.8 °C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	TX 802.11a Mode CH36		
Remark:	Only worse case is reported.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.3260	32.53	9.70	42.23	59.55	-17.32	QP
2		0.3260	24.48	9.70	34.18	49.55	-15.37	AVG
3	*	0.4860	37.61	9.70	47.31	56.24	-8.93	QP
4		0.4860	23.31	9.70	33.01	46.24	-13.23	AVG
5		0.6460	35.52	9.70	45.22	56.00	-10.78	QP
6		0.6460	22.62	9.70	32.32	46.00	-13.68	AVG
7		1.0460	31.22	9.80	41.02	56.00	-14.98	QP
8		1.0460	19.40	9.80	29.20	46.00	-16.80	AVG
9		2.8060	31.19	9.86	41.05	56.00	-14.95	QP
10		2.8060	18.37	9.86	28.23	46.00	-17.77	AVG
11		4.3940	28.86	9.90	38.76	56.00	-17.24	QP
12		4.3940	18.15	9.90	28.05	46.00	-17.95	AVG

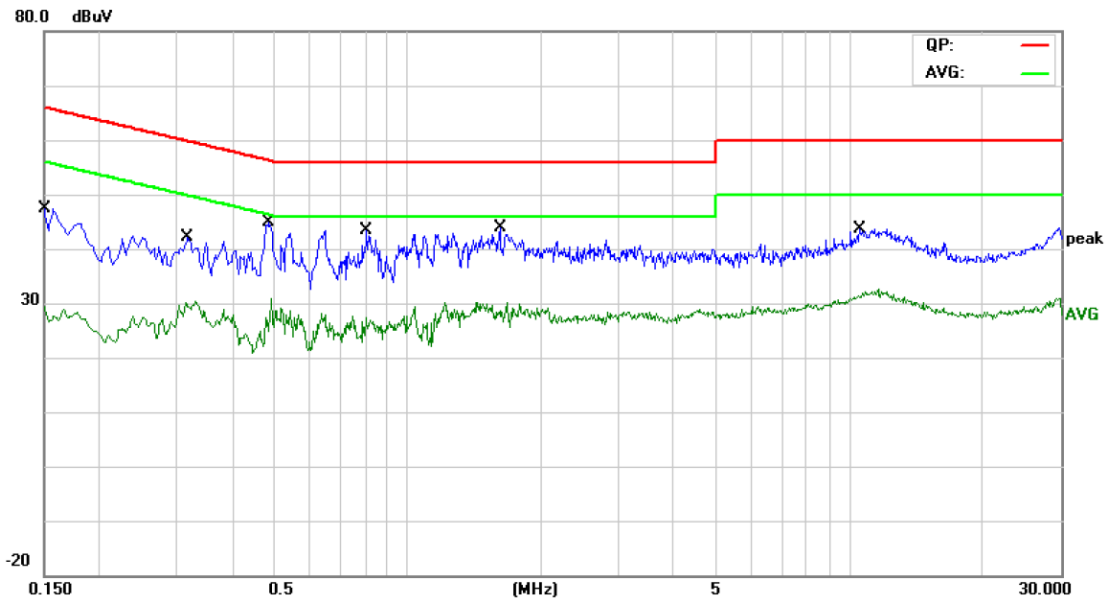
*:Maximum data x:Over limit !:over margin

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)

Temperature:	24.8 °C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	TX 802.11a Mode CH36		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1500	31.05	9.80	40.85	65.99	-25.14	QP
2		0.1500	17.07	9.80	26.87	55.99	-29.12	AVG
3		0.3180	27.95	9.80	37.75	59.76	-22.01	QP
4		0.3180	19.84	9.80	29.64	49.76	-20.12	AVG
5	*	0.4860	32.44	9.80	42.24	56.24	-14.00	QP
6		0.4860	17.97	9.80	27.77	46.24	-18.47	AVG
7		0.8059	26.68	9.80	36.48	56.00	-19.52	QP
8		0.8059	15.77	9.80	25.57	46.00	-20.43	AVG
9		1.6140	28.12	9.80	37.92	56.00	-18.08	QP
10		1.6140	17.72	9.80	27.52	46.00	-18.48	AVG
11		10.5140	27.60	9.91	37.51	60.00	-22.49	QP
12		10.5140	20.61	9.91	30.52	50.00	-19.48	AVG

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

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = QuasiPeak/Average (dBuV) - Limit (dBuV)

Attachment B-- Unwanted Emissions Data

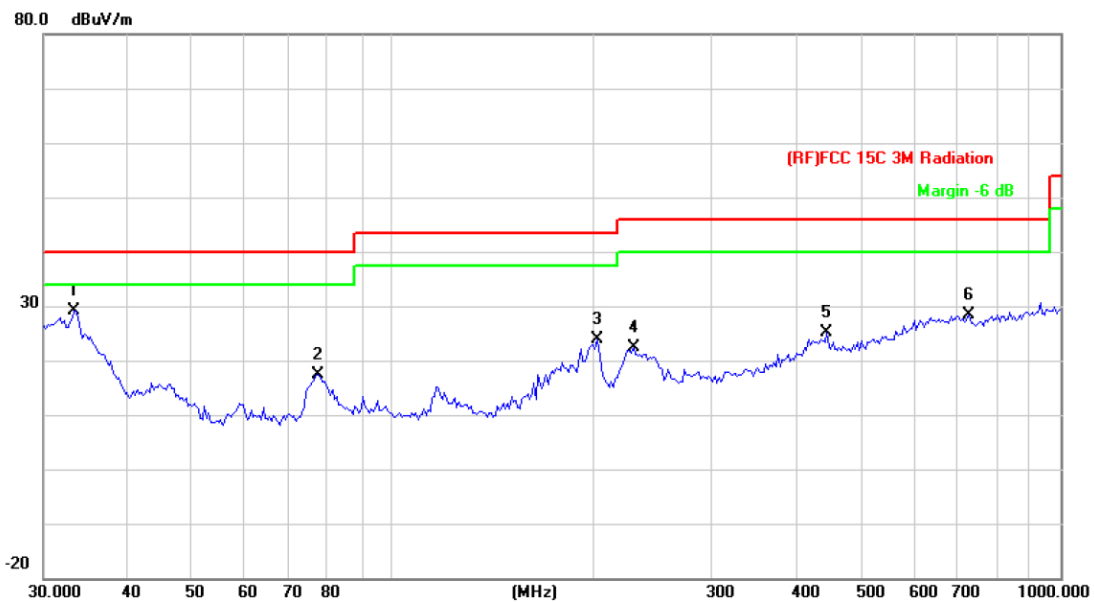
---Radiated Unwanted Emissions

From 9KHz to 30MHz: Conclusion: PASS

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

30MHz~1GHz

Temperature:	24.6 °C	Relative Humidity:	43%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)		
Remark:	Only worse case is reported		



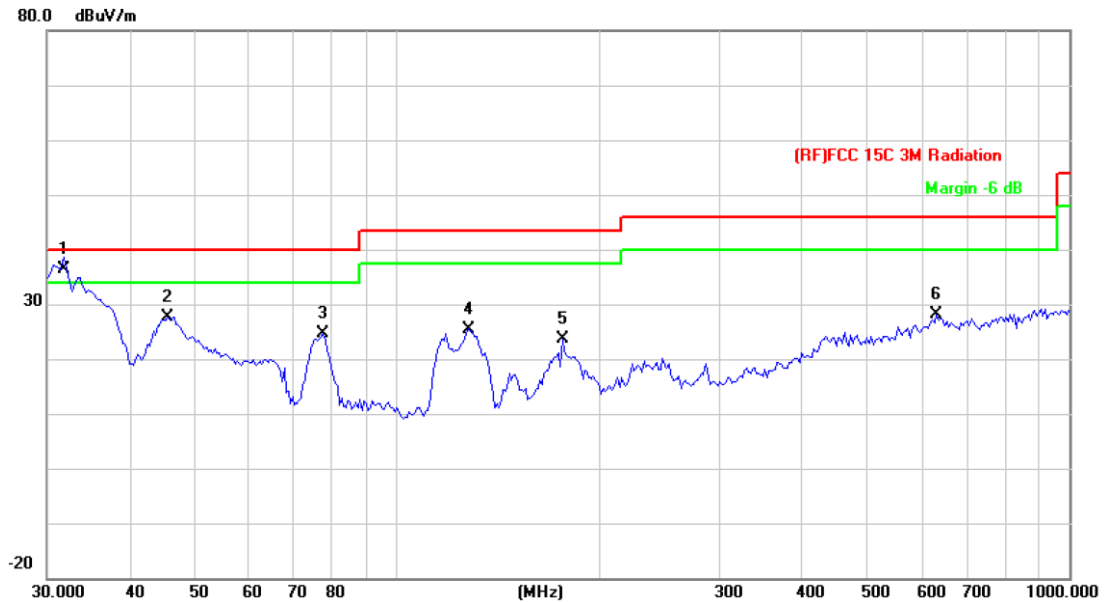
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	33.3279	44.48	-15.42	29.06	40.00	-10.94	peak
2		77.3212	40.11	-22.71	17.40	40.00	-22.60	peak
3		202.1005	43.59	-19.83	23.76	43.50	-19.74	peak
4		229.2931	40.77	-18.35	22.42	46.00	-23.58	peak
5		446.4141	37.06	-11.95	25.11	46.00	-20.89	peak
6		729.3583	35.17	-6.67	28.50	46.00	-17.50	peak

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

Remark:

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

Temperature:	24.6 °C	Relative Humidity:	43%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)		
Remark:	Only worse case is reported.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	31.7313	50.75	-14.25	36.50	40.00	-3.50	QP
2		45.3755	49.16	-21.54	27.62	40.00	-12.38	peak
3		77.3212	47.28	-22.71	24.57	40.00	-15.43	peak
4		127.2176	47.78	-22.28	25.50	43.50	-18.00	peak
5		175.6516	43.89	-20.28	23.61	43.50	-19.89	peak
6		633.9073	36.18	-8.08	28.10	46.00	-17.90	peak

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

Remark:

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

5180MHz-5240MHz(U-NII-1)

Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Horizontal							
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)							
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		10360.16	27.15	18.05	45.20	54.00	-8.80	AVG
2	*	10360.49	43.43	18.05	61.48	68.30	-6.82	peak
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m) 4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 								

Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)							
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		10360.45	42.29	18.05	60.34	68.30	-7.96	peak
2	*	10360.46	28.23	18.05	46.28	54.00	-7.72	AVG
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m) 4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 								

Temperature:	23.6°C	Relative Humidity:	43%																																								
Test Voltage:	DC 7.6V																																										
Ant. Pol.	Horizontal																																										
Test Mode:	TX 802.11a Mode 5200MHz (U-NII-1)																																										
<table border="1"> <thead> <tr> <th>No.</th> <th>Mk.</th> <th>Freq.</th> <th>Reading Level</th> <th>Correct Factor</th> <th>Measurement</th> <th>Limit</th> <th>Over</th> <th>Detector</th> </tr> <tr> <th></th> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>*</td> <td>10400.20</td> <td>27.98</td> <td>18.14</td> <td>46.12</td> <td>54.00</td> <td>-7.88</td> <td>AVG</td> </tr> <tr> <td>2</td> <td></td> <td>10400.48</td> <td>42.16</td> <td>18.14</td> <td>60.30</td> <td>68.30</td> <td>-8.00</td> <td>peak</td> </tr> </tbody> </table>								No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector			MHz	dBuV	dB	dBuV/m	dBuV/m	dB		1	*	10400.20	27.98	18.14	46.12	54.00	-7.88	AVG	2		10400.48	42.16	18.14	60.30	68.30	-8.00	peak
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																																			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB																																				
1	*	10400.20	27.98	18.14	46.12	54.00	-7.88	AVG																																			
2		10400.48	42.16	18.14	60.30	68.30	-8.00	peak																																			
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m) 4. The tests evaluated 1-40GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 																																											

Temperature:	23.6°C	Relative Humidity:	43%																																								
Test Voltage:	DC 7.6V																																										
Ant. Pol.	Vertical																																										
Test Mode:	TX 802.11a Mode 5200MHz (U-NII-1)																																										
<table border="1"> <thead> <tr> <th>No.</th> <th>Mk.</th> <th>Freq.</th> <th>Reading Level</th> <th>Correct Factor</th> <th>Measurement</th> <th>Limit</th> <th>Over</th> <th>Detector</th> </tr> <tr> <th></th> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>*</td> <td>10400.26</td> <td>28.01</td> <td>18.14</td> <td>46.15</td> <td>54.00</td> <td>-7.85</td> <td>AVG</td> </tr> <tr> <td>2</td> <td></td> <td>10400.32</td> <td>41.66</td> <td>18.14</td> <td>59.80</td> <td>68.30</td> <td>-8.50</td> <td>peak</td> </tr> </tbody> </table>								No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector			MHz	dBuV	dB	dBuV/m	dBuV/m	dB		1	*	10400.26	28.01	18.14	46.15	54.00	-7.85	AVG	2		10400.32	41.66	18.14	59.80	68.30	-8.50	peak
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																																			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB																																				
1	*	10400.26	28.01	18.14	46.15	54.00	-7.85	AVG																																			
2		10400.32	41.66	18.14	59.80	68.30	-8.50	peak																																			
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m) 4. The tests evaluated 1-40GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 																																											

Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Horizontal							
Test Mode:	TX 802.11a Mode 5240MHz (U-NII-1)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	10480.35	27.91	18.31	46.22	54.00	-7.78	AVG
2		10480.75	42.18	18.31	60.49	68.30	-7.81	peak
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11a Mode 5240MHz (U-NII-1)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	10480.26	41.39	18.31	59.70	68.30	-8.60	peak
2		10480.26	26.87	18.31	45.18	54.00	-8.82	AVG
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6°C	Relative Humidity:	43%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT20) Mode 5180MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	10360.32	42.99	18.05	61.04	68.30	-7.26	peak
2		10360.85	27.77	18.05	45.82	54.00	-8.18	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6°C	Relative Humidity:	43%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT20) Mode 5180MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	10360.22	43.00	18.05	61.05	68.30	-7.25	peak
2		10360.48	27.70	18.05	45.75	54.00	-8.25	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6°C	Relative Humidity:	43%																																				
Test Voltage:	DC 7.6V																																						
Ant. Pol.	Horizontal																																						
Test Mode:	TX 802.11n(HT20) Mode 5200MHz (U-NII-1)																																						
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																															
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB																																
1	*	10400.05	28.05	18.14	46.19	54.00	-7.81	AVG																															
2		10400.46	42.19	18.14	60.33	68.30	-7.97	peak																															
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m) 4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 																																							

Temperature:	23.6°C	Relative Humidity:	43%																																				
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																															
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB																																
1	*	10400.18	42.75	18.14	60.89	68.30	-7.41	peak																															
2		10400.59	28.03	18.14	46.17	54.00	-7.83	AVG																															
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Test Mode:	TX 802.11n(HT20) Mode 5240MHz (U-NII-1)																																						
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																															
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB																																
1	*	10480.23	42.17	18.31	60.48	68.30	-7.82	peak																															
2		10480.46	27.85	18.31	46.16	54.00	-7.84	AVG																															
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Temperature:	23.6°C	Relative Humidity:	43%																																				
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																															
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB																																
1	*	10480.26	28.40	18.31	46.71	54.00	-7.29	AVG																															
2		10480.39	41.89	18.31	60.20	68.30	-8.10	peak																															
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Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Horizontal							
Test Mode:	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
							Detector	
1		10380.40	26.91	18.09	45.00	54.00	-9.00	AVG
2	*	10380.76	42.13	18.09	60.22	68.30	-8.08	peak
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
							Detector	
1	*	10380.11	41.95	18.09	60.04	68.30	-8.26	peak
2		10380.26	27.19	18.09	45.28	54.00	-8.72	AVG
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6°C	Relative Humidity:	43%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT40) Mode 5230MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	10460.19	42.28	18.27	60.55	68.30	-7.75	peak
2		10460.65	27.43	18.27	45.70	54.00	-8.30	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)
4. The tests evaluated 1-40GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6°C	Relative Humidity:	43%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT40) Mode 5230MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		10460.10	41.98	18.27	60.25	68.30	-8.05	peak
2	*	10460.10	27.92	18.27	46.19	54.00	-7.81	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)
4. The tests evaluated 1-40GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

5745MHz-5825MHz(U-NII-3)

Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Horizontal							
Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	11490.20	40.62	19.60	60.22	68.30	-8.08	peak
2		11490.34	25.50	19.60	45.10	54.00	-8.90	AVG
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	11490.00	42.30	19.60	61.90	68.30	-6.40	peak
2		11490.56	26.64	19.60	46.24	54.00	-7.76	AVG
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6°C	Relative Humidity:	43%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5785MHz (U-NII-3)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	*	11570.56	41.66	19.68	61.34	68.30	-6.96	peak
2		11570.65	26.82	19.68	46.50	54.00	-7.50	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)
4. The tests evaluated 1-40GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6°C	Relative Humidity:	43%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5785MHz (U-NII-3)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		11570.10	26.50	19.68	46.18	54.00	-7.82	AVG
2	*	11570.20	41.35	19.68	61.03	68.30	-7.27	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)
4. The tests evaluated 1-40GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.
5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Horizontal							
Test Mode:	TX 802.11a Mode 5825MHz (U-NII-3)							
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	11650.18	42.14	19.76	61.90	68.30	-6.40	peak
2		11650.50	26.35	19.76	46.11	54.00	-7.89	AVG
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11a Mode 5825MHz (U-NII-3)							
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		11650.05	25.54	19.76	45.30	54.00	-8.70	AVG
2	*	11650.55	41.98	19.76	61.74	68.30	-6.56	peak
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
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Temperature:	23.6°C	Relative Humidity:	43%																																				
Test Voltage:	DC 7.6V																																						
Ant. Pol.	Horizontal																																						
Test Mode:	TX 802.11n(HT20) Mode 5745MHz (U-NII-3)																																						
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																															
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB																																
1	*	11490.23	41.96	19.60	61.56	68.30	-6.74	peak																															
2		11490.54	25.69	19.60	45.29	54.00	-8.71	AVG																															
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m) 4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 																																							

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																															
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB																																
1		11490.36	41.42	19.60	61.02	68.30	-7.28	peak																															
2	*	11490.70	27.20	19.60	46.80	54.00	-7.20	AVG																															
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m) 4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 																																							

Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Horizontal							
Test Mode:	TX 802.11n(HT20) Mode 5785MHz (U-NII-3)							
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	11570.49	40.80	19.68	60.48	68.30	-7.82	peak
2		11570.60	25.47	19.68	45.15	54.00	-8.85	AVG
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m) 4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 								

Temperature:	23.6°C	Relative Humidity:	43%					
Test Voltage:	DC 7.6V							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11n(HT20) Mode 5785MHz (U-NII-3)							
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	11570.51	41.38	19.68	61.06	68.30	-7.24	peak
2		11570.51	26.64	19.68	46.32	54.00	-7.68	AVG
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m) 4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 								

Temperature:	23.6°C	Relative Humidity:	43%				
Test Voltage:	DC 7.6V						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11n(HT20) Mode 5825MHz (U-NII-3)						
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	11650.72	26.83	19.76	46.59	54.00	-7.41	AVG
2 *	11650.80	41.61	19.76	61.37	68.30	-6.93	peak
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG(dBμV/m) 4. The tests evaluated 1-40GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 							

Temperature:	23.6°C	Relative Humidity:	43%				
Test Voltage:	DC 7.6V						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT20) Mode 5825MHz (U-NII-3)						
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	11650.49	26.47	19.76	46.23	54.00	-7.77	AVG
2 *	11650.62	41.64	19.76	61.40	68.30	-6.90	peak
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG(dBμV/m) 4. The tests evaluated 1-40GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 							

Temperature:	23.6°C	Relative Humidity:	43%				
Test Voltage:	DC 7.6V						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)						
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1 *	11510.08	26.69	19.63	46.32	54.00	-7.68	AVG
2	11510.11	40.52	19.63	60.15	68.30	-8.15	peak
Remark:							
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)							
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)							
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)							
4. The tests evaluated 1-40GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.							
5. No report for the emission which more than 20dB below the prescribed limit.							

Temperature:	23.6°C	Relative Humidity:	43%				
Test Voltage:	DC 7.6V						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)						
No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1 *	11510.20	41.64	19.63	61.27	68.30	-7.03	peak
2	11510.20	26.67	19.63	46.30	54.00	-7.70	AVG
Remark:							
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)							
2. Peak/AVG (dBμV/m) = Corr. (dB/m) + Read Level (dBμV)							
3. Margin (dB) = Peak/AVG (dBμV/m) - Limit PK/AVG (dBμV/m)							
4. The tests evaluated 1-40GHz, The testing has been conformed to the 10th harmonic of the highest fundamental frequency.							
5. No report for the emission which more than 20dB below the prescribed limit.							

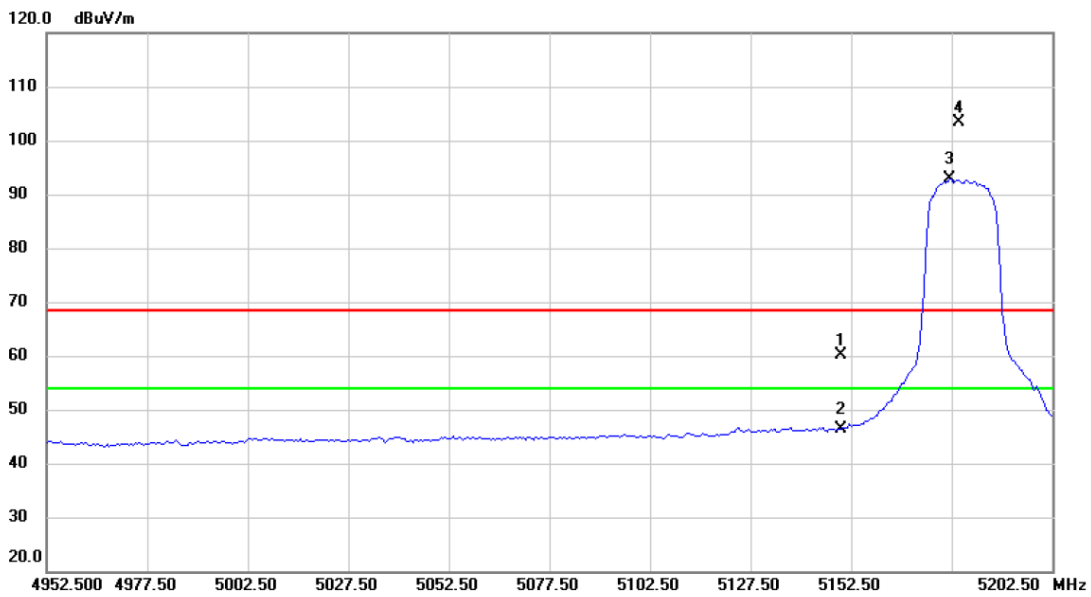
Temperature:	23.6°C	Relative Humidity:	43%																																				
Test Voltage:	DC 7.6V																																						
Ant. Pol.	Horizontal																																						
Test Mode:	TX 802.11n(HT40) Mode 5795MHz (U-NII-3)																																						
<table border="1"> <thead> <tr> <th>No.</th> <th>Mk.</th> <th>Freq.</th> <th>Reading Level</th> <th>Correct Factor</th> <th>Measurement</th> <th>Limit</th> <th>Over</th> <th>Detector</th> </tr> <tr> <th></th> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB</th> <th>dBuV/m</th> <th>dBuV/m</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>11590.11</td> <td>26.49</td> <td>19.69</td> <td>46.18</td> <td>54.00</td> <td>-7.82</td> <td>AVG</td> </tr> <tr> <td>2</td> <td>*</td> <td>11590.36</td> <td>41.60</td> <td>19.69</td> <td>61.29</td> <td>68.30</td> <td>-7.01</td> <td>peak</td> </tr> </tbody> </table>				No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector			MHz	dBuV	dB	dBuV/m	dBuV/m	dB		1		11590.11	26.49	19.69	46.18	54.00	-7.82	AVG	2	*	11590.36	41.60	19.69	61.29	68.30	-7.01	peak
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																															
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB																																
1		11590.11	26.49	19.69	46.18	54.00	-7.82	AVG																															
2	*	11590.36	41.60	19.69	61.29	68.30	-7.01	peak																															
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m) 4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 																																							

Temperature:	23.6°C	Relative Humidity:	43%																																				
Test Voltage:	DC 7.6V																																						
Ant. Pol.	Vertical																																						
Test Mode:	TX 802.11n(HT40) Mode 5795MHz (U-NII-3)																																						
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No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector																															
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB																																
1		11590.35	26.96	19.69	46.65	54.00	-7.35	AVG																															
2	*	11590.48	41.32	19.69	61.01	68.30	-7.29	peak																															
<p>Remark:</p> <ol style="list-style-type: none"> 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB) 2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV) 3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m) 4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency. 5. No report for the emission which more than 20dB below the prescribed limit. 																																							

Attachment C-- Restricted Bands Requirement and Band-edge Test Data

(1) Radiation Test

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5180 MHz (U-NII-1)		
Remark:			

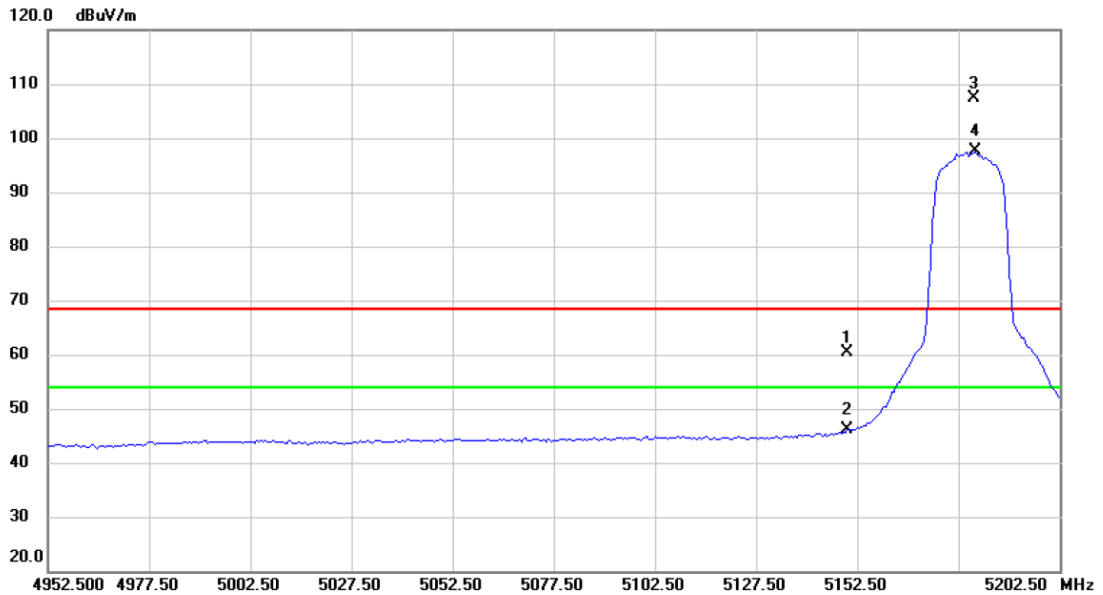


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5150.000	45.48	14.67	60.15	68.30	-8.15	peak
2		5150.000	31.80	14.67	46.47	54.00	-7.53	AVG
3	*	5177.000	78.14	14.71	92.85	Fundamental Frequency		AVG
4	X	5179.265	88.56	14.72	103.28	Fundamental Frequency		peak

Remark:

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

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5180 MHz (U-NII-1)		
Remark:			

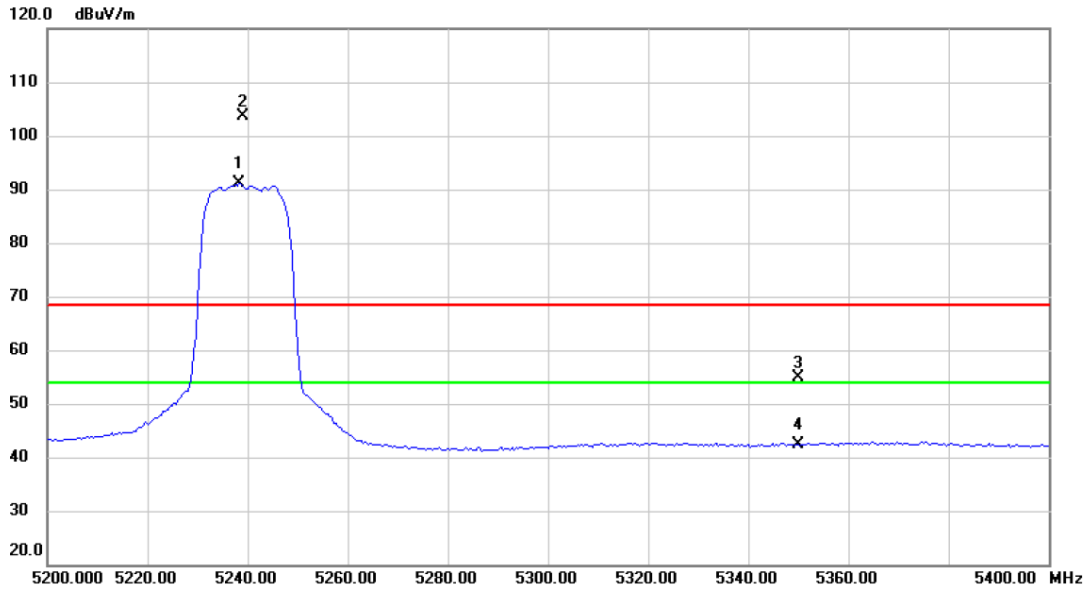


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5150.000	45.70	14.67	60.37	68.30	-7.93	peak
2		5150.000	31.46	14.67	46.13	54.00	-7.87	AVG
3	X	5181.200	92.78	14.72	107.50	Fundamental Frequency		peak
4	*	5181.500	82.93	14.72	97.65	Fundamental Frequency		AVG

Remark:

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

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5240 MHz (U-NII-1)		
Remark:			

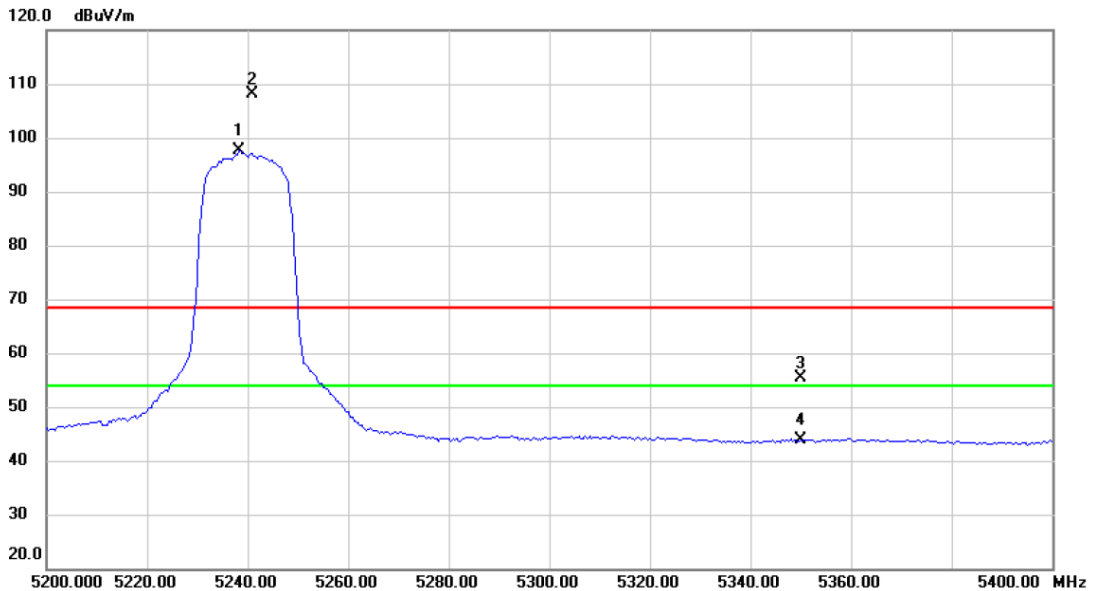


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	5238.400	76.22	14.79	91.01			AVG
2	X	5239.180	88.81	14.79	103.60			peak
3		5350.000	39.85	14.97	54.82	68.30	-13.48	peak
4		5350.000	27.49	14.97	42.46	54.00	-11.54	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5240 MHz (U-NII-1)		
Remark:			

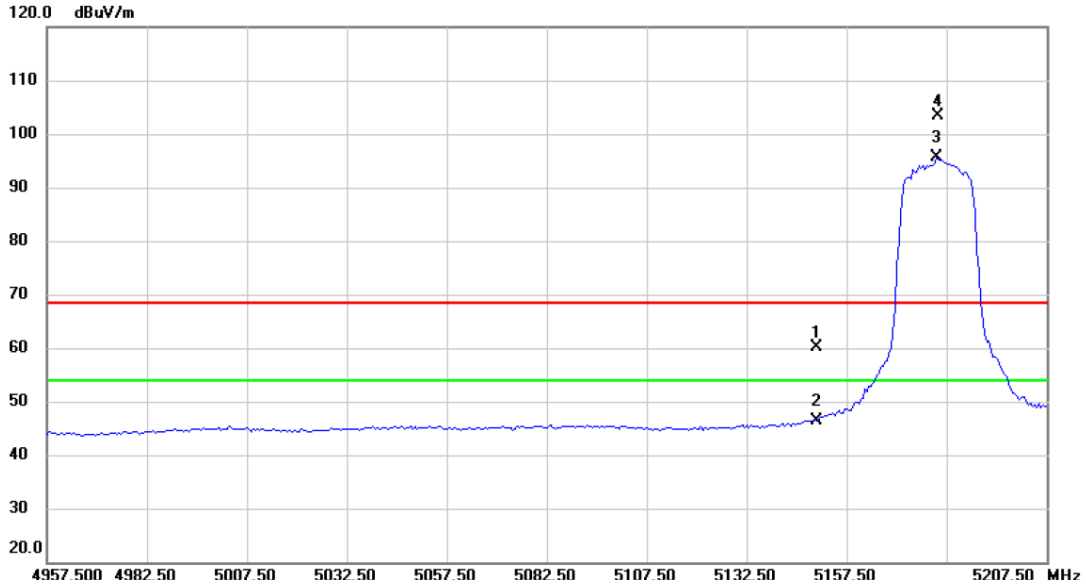


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	5238.400	82.83	14.79	97.62	Fundamental Frequency		AVG
2	X	5240.800	93.35	14.81	108.16	Fundamental Frequency		peak
3		5350.000	40.48	14.97	55.45	68.30	-12.85	peak
4		5350.000	28.85	14.97	43.82	54.00	-10.18	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT20) Mode 5180 MHz (U-NII-1)		
Remark:			

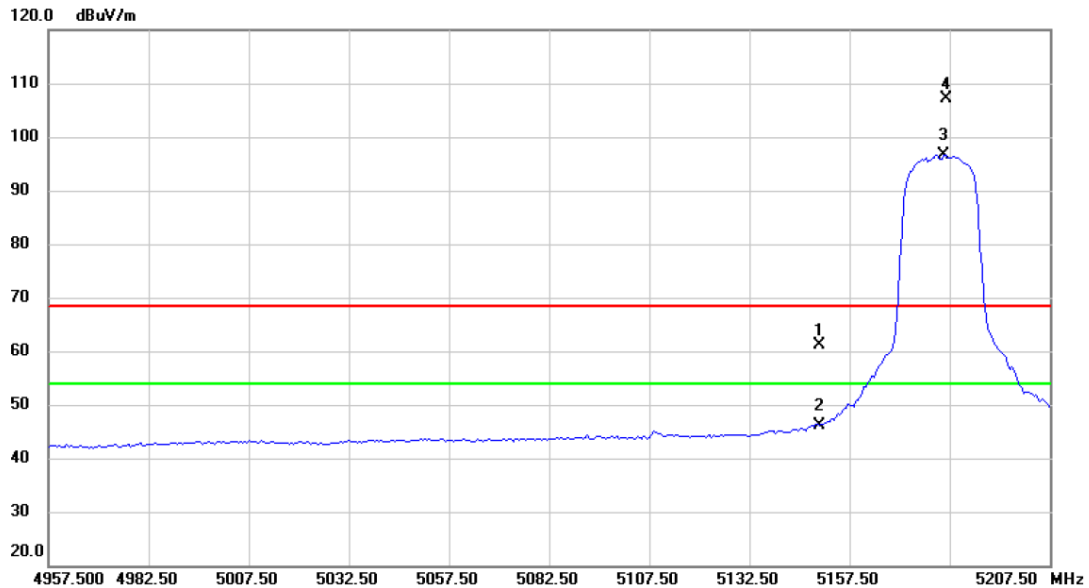


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5150.000	45.55	14.67	60.22	68.30	-8.08	peak
2		5150.000	31.81	14.67	46.48	54.00	-7.52	AVG
3	*	5180.000	80.84	14.72	95.56	Fundamental Frequency		AVG
4	X	5180.210	88.69	14.72	103.41	Fundamental Frequency		peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT20) Mode 5180 MHz (U-NII-1)		
Remark:			

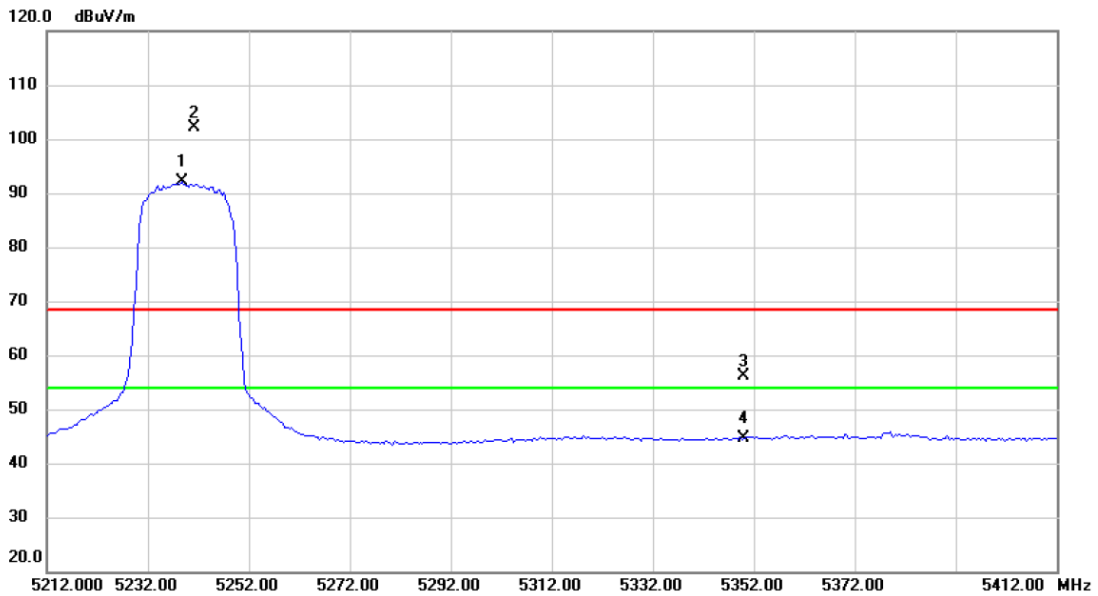


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1		5150.000	46.41	14.67	61.08	68.30	-7.22	peak
2		5150.000	31.45	14.67	46.12	54.00	-7.88	AVG
3	*	5181.000	81.89	14.72	96.61	Fundamental Frequency		AVG
4	X	5181.600	92.52	14.72	107.24	Fundamental Frequency		peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT20) Mode 5240 MHz (U-NII-1)		
Remark:			

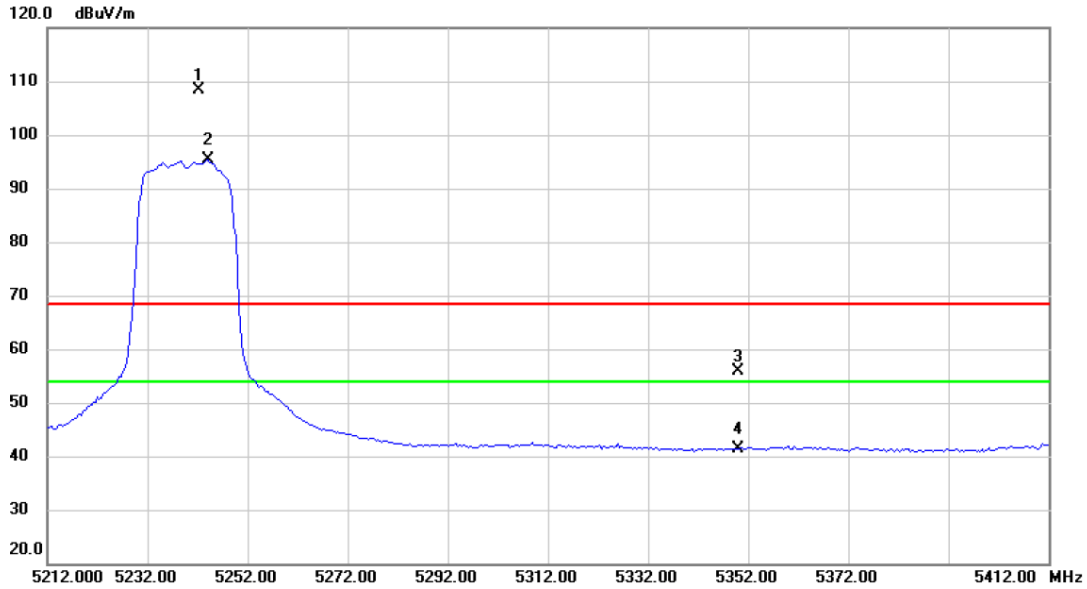


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	5238.800	77.35	14.79	92.14	Fundamental Frequency	0.00	AVG
2	X	5241.200	87.30	14.81	102.11	Fundamental Frequency	0.00	peak
3		5350.000	41.08	14.97	56.05	68.30	-12.25	peak
4		5350.000	29.68	14.97	44.65	54.00	-9.35	AVG

Remark:

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

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT20) Mode 5240 MHz (U-NII-1)		
Remark:			

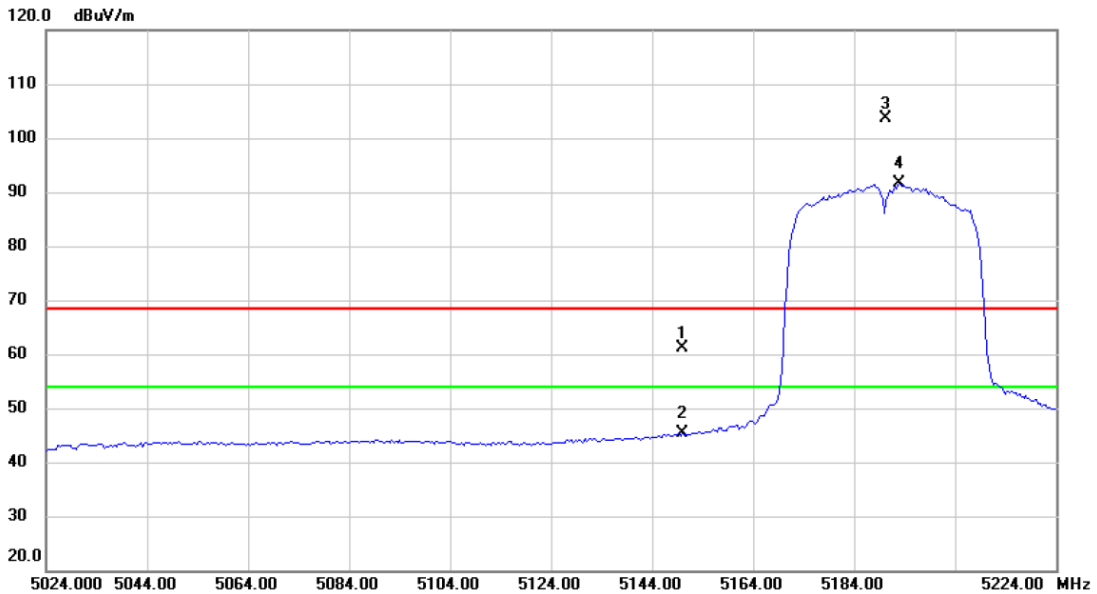


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	5242.160	93.49	14.81	108.30	68.30	40.00	peak
2	*	5244.000	80.45	14.81	95.26	54.00	41.26	AVG
3		5350.000	40.83	14.97	55.80	68.30	-12.50	peak
4		5350.000	26.34	14.97	41.31	54.00	-12.69	AVG

Remark:

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

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT40) Mode 5190 MHz (U-NII-1)		
Remark:			

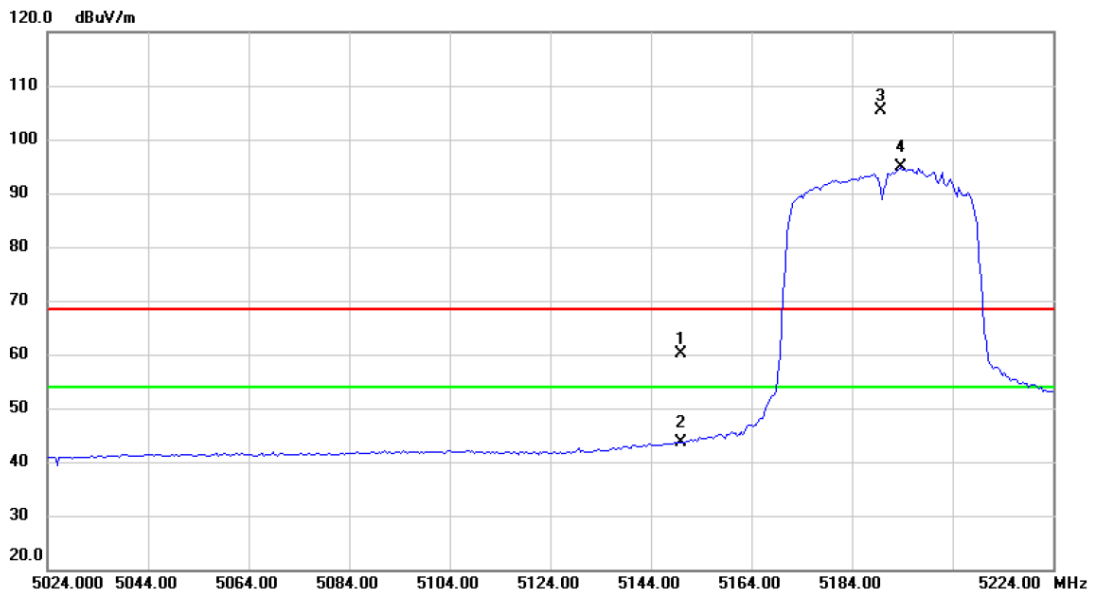


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5150.000	46.51	14.67	61.18	68.30	-7.12	peak
2		5150.000	30.60	14.67	45.27	54.00	-8.73	AVG
3	X	5190.300	88.92	14.73	103.65	Fundamental Frequency		peak
4	*	5192.800	76.79	14.73	91.52	Fundamental Frequency		AVG

Remark:

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

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT40) Mode 5190 MHz (U-NII-1)		
Remark:			

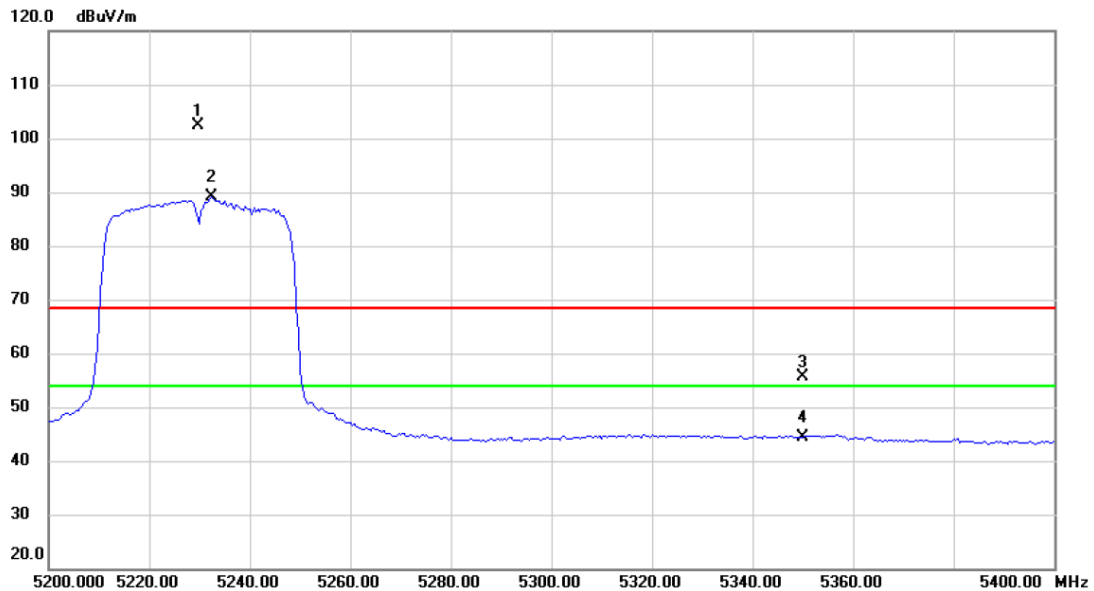


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5150.000	45.35	14.67	60.02	68.30	-8.28	peak
2		5150.000	28.96	14.67	43.63	54.00	-10.37	AVG
3	X	5189.600	90.56	14.73	105.29	Fundamental Frequency		peak
4	*	5193.600	80.14	14.73	94.87	Fundamental Frequency		AVG

Remark:

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

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT40) Mode 5230 MHz (U-NII-1)		
Remark:			

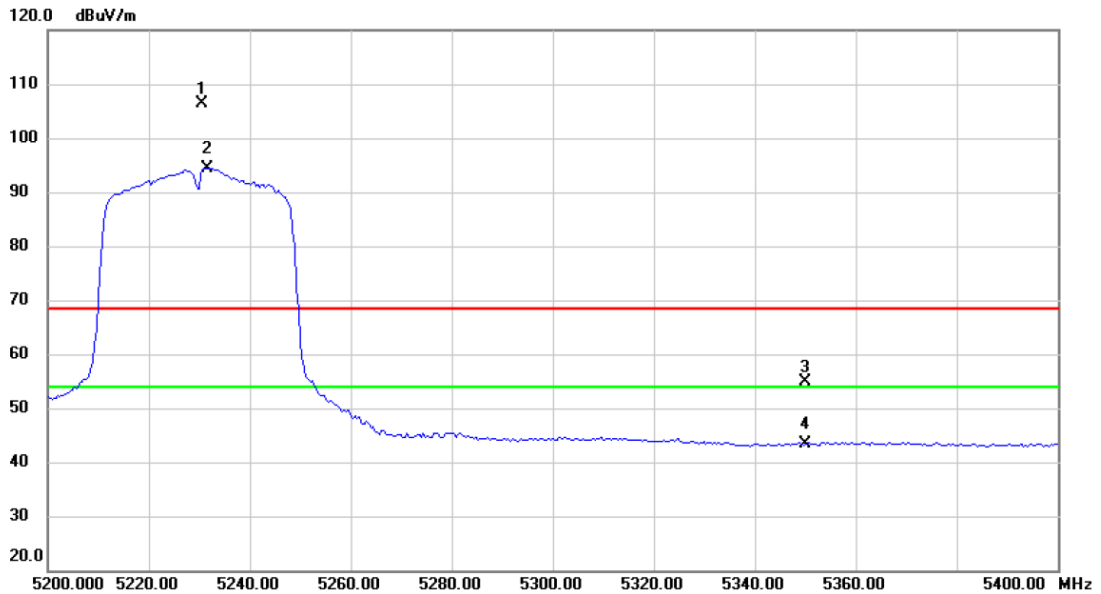


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	5229.610	87.71	14.79	102.50	68.30	34.41	peak
2	*	5232.400	74.22	14.80	89.02	54.00	35.02	AVG
3		5350.000	40.75	14.97	55.72	54.00	1.72	peak
4		5350.000	29.47	14.97	44.44	54.00	-9.56	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT40) Mode 5230 MHz (U-NII-1)		
Remark:			

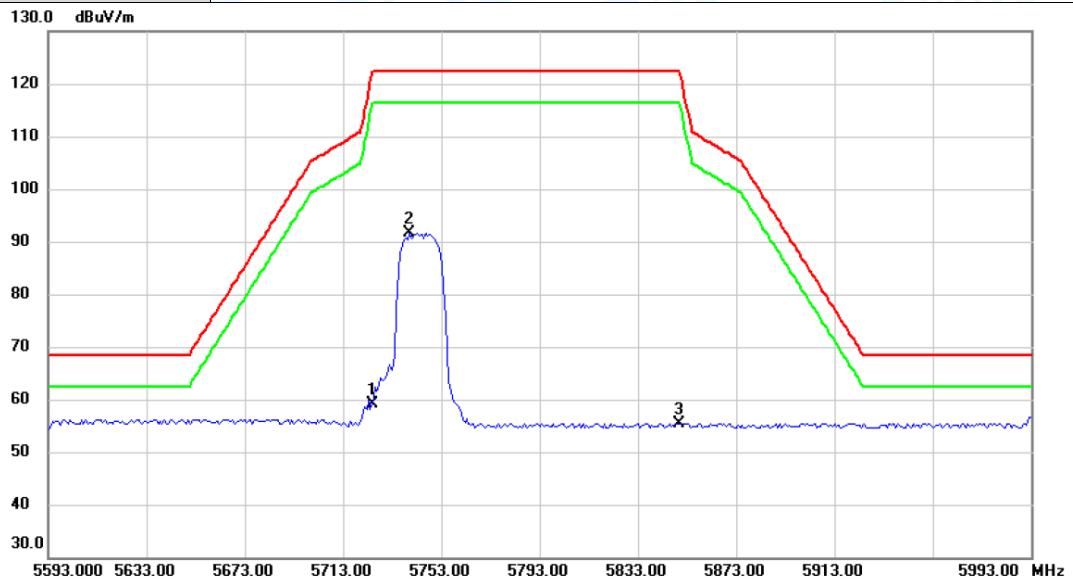


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	5230.500	91.57	14.79	106.36	Fundamental Frequency		peak
2	*	5231.600	79.65	14.79	94.44	Fundamental Frequency		AVG
3		5350.000	39.99	14.97	54.96	68.30	-13.34	peak
4		5350.000	28.46	14.97	43.43	54.00	-10.57	AVG

Remark:

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

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5745 MHz (U-NII-3)		
Remark:			

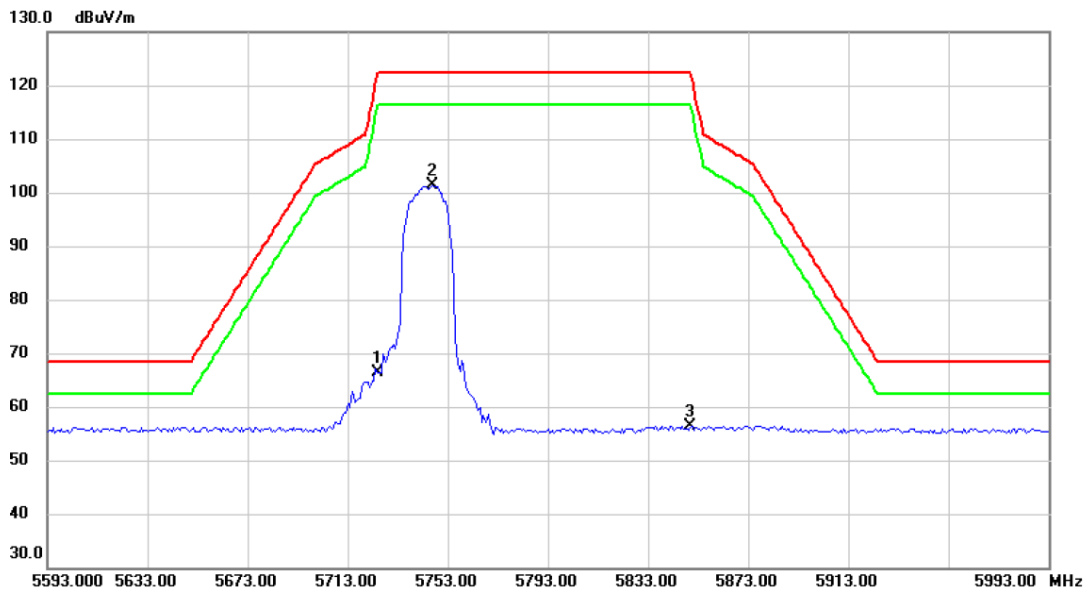


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	43.35	15.88	59.23	122.3	-63.07	peak
2	*	5740.200	75.66	15.93	91.59	122.3	-30.71	peak
3		5850.000	39.13	16.27	55.40	122.3	-66.90	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5745 MHz (U-NII-3)		
Remark:			

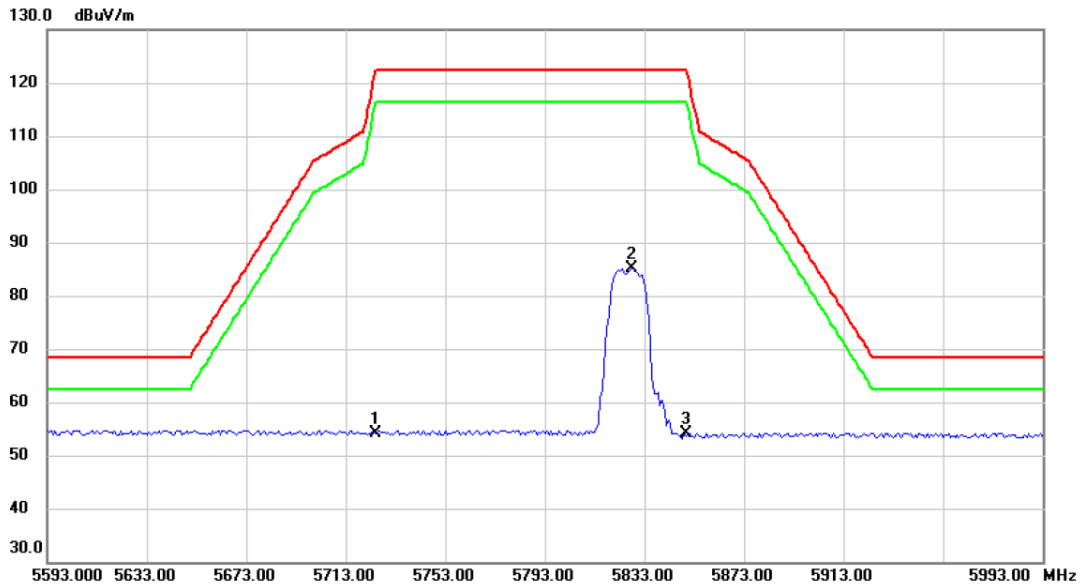


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	50.43	15.88	66.31	122.3	-55.99	peak
2	*	5746.600	85.43	15.95	101.38	122.3	-20.92	peak
3		5850.000	40.01	16.27	56.28	122.3	-66.02	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5825 MHz (U-NII-3)		
Remark:			

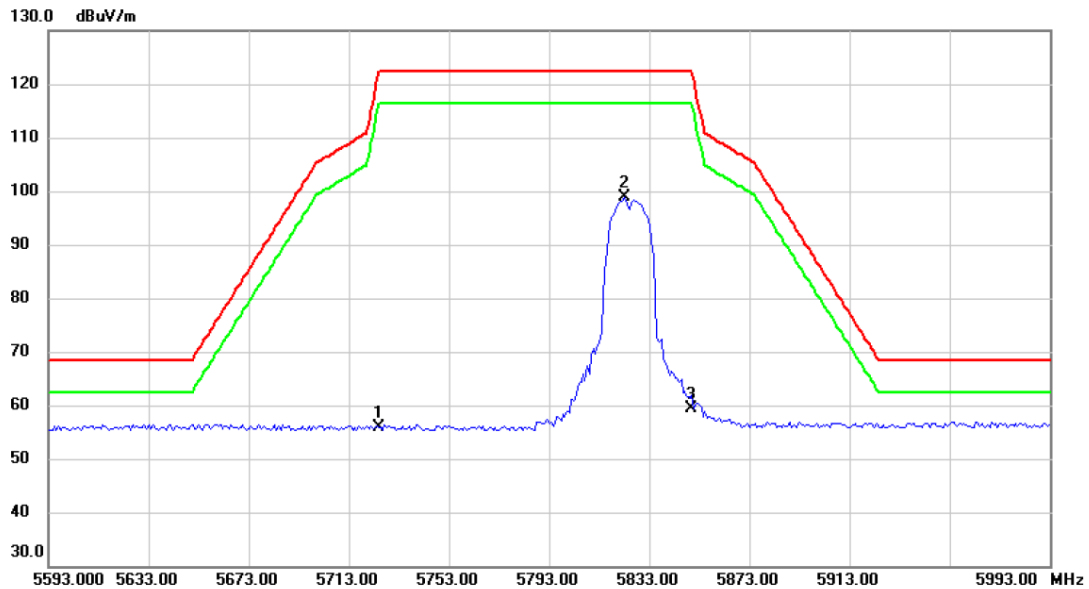


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	38.15	15.88	54.03	122.3	-68.27	peak
2	*	5828.200	69.05	16.20	85.25	122.3	-37.05	peak
3		5850.000	37.80	16.27	54.07	122.3	-68.23	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5825 MHz (U-NII-3)		
Remark:			

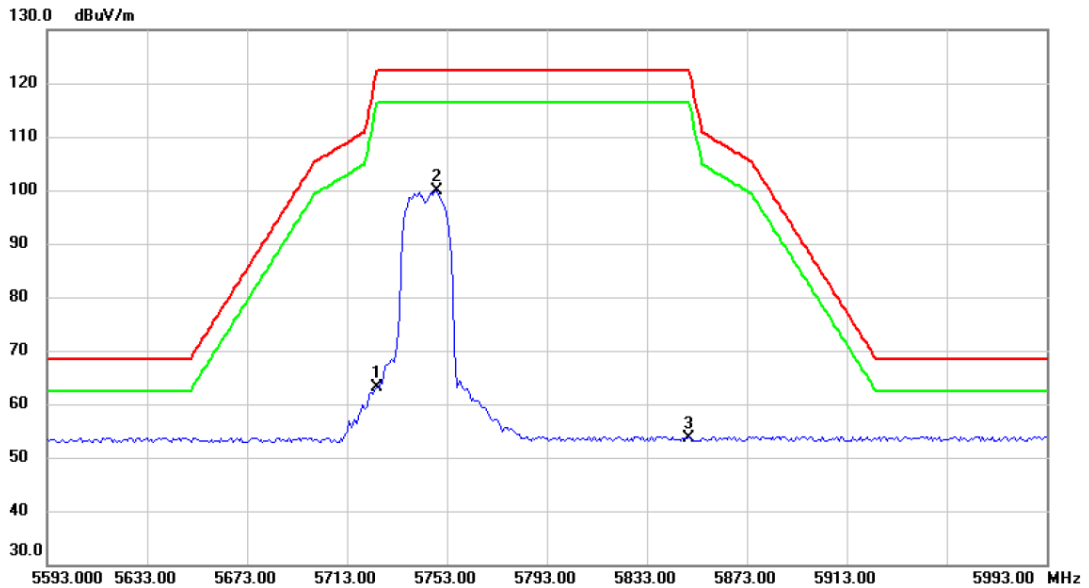


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	39.93	15.88	55.81	122.3	-66.49	peak
2	*	5823.400	82.57	16.20	98.77	122.3	-23.53	peak
3		5850.000	43.16	16.27	59.43	122.3	-62.87	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT20) Mode 5745 MHz (U-NII-3)		
Remark:			

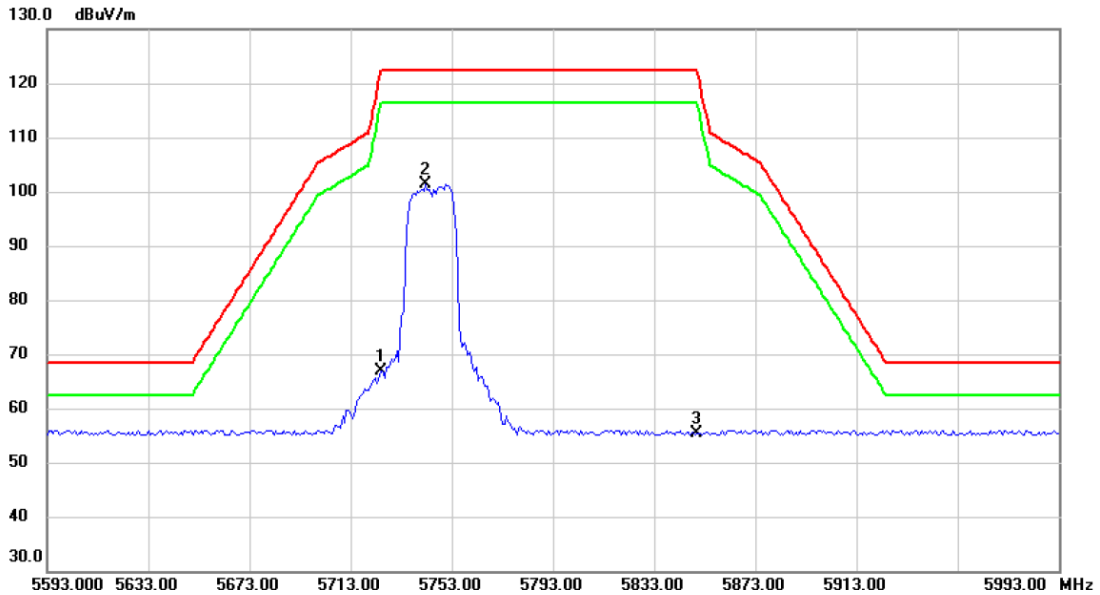


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	47.17	15.88	63.05	122.3	-59.25	peak
2	*	5749.000	84.04	15.96	100.00	122.3	-22.30	peak
3		5850.000	37.26	16.27	53.53	122.3	-68.77	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT20) Mode 5745 MHz (U-NII-3)		
Remark:			

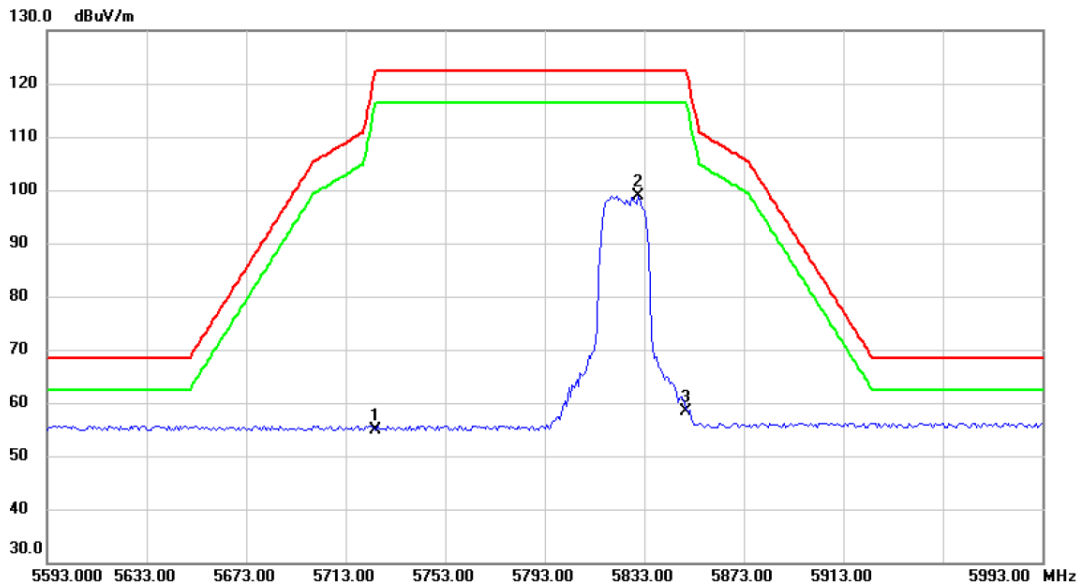


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	51.10	15.88	66.98	122.3	-55.32	peak
2	*	5742.600	85.53	15.94	101.47	122.3	-20.83	peak
3		5850.000	39.20	16.27	55.47	122.3	-66.83	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT20) Mode 5825 MHz (U-NII-3)		
Remark:			

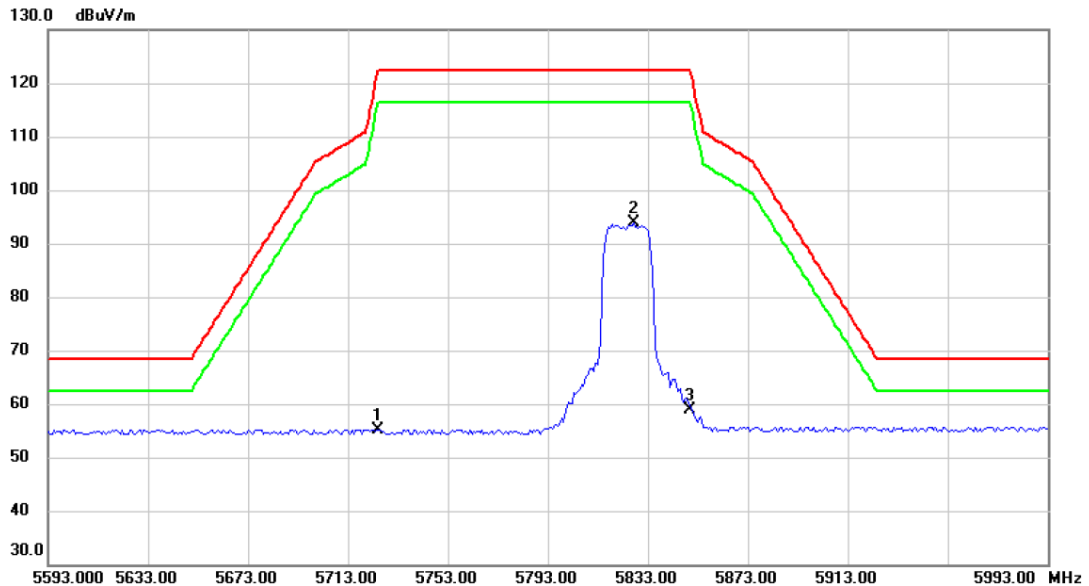


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	38.91	15.88	54.79	122.3	-67.51	peak
2	*	5830.600	82.64	16.21	98.85	122.3	-23.45	peak
3		5850.000	42.14	16.27	58.41	122.3	-63.89	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT20) Mode 5825 MHz (U-NII-3)		
Remark:			

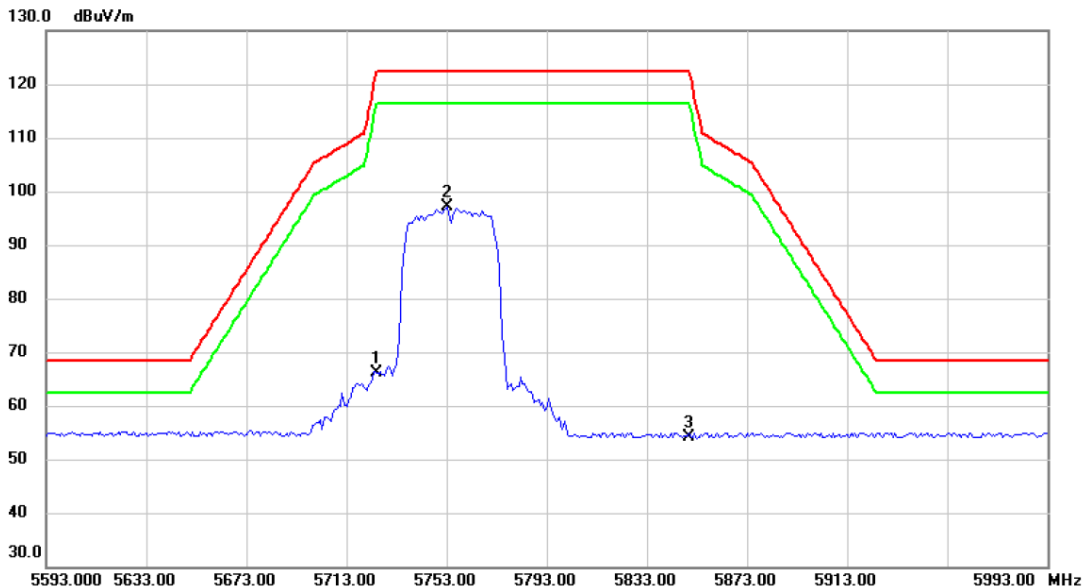


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	39.35	15.88	55.23	122.3	-67.07	peak
2	*	5827.400	77.58	16.20	93.78	122.3	-28.52	peak
3		5850.000	42.56	16.27	58.83	122.3	-63.47	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT40) Mode 5755 MHz (U-NII-3)		
Remark:			

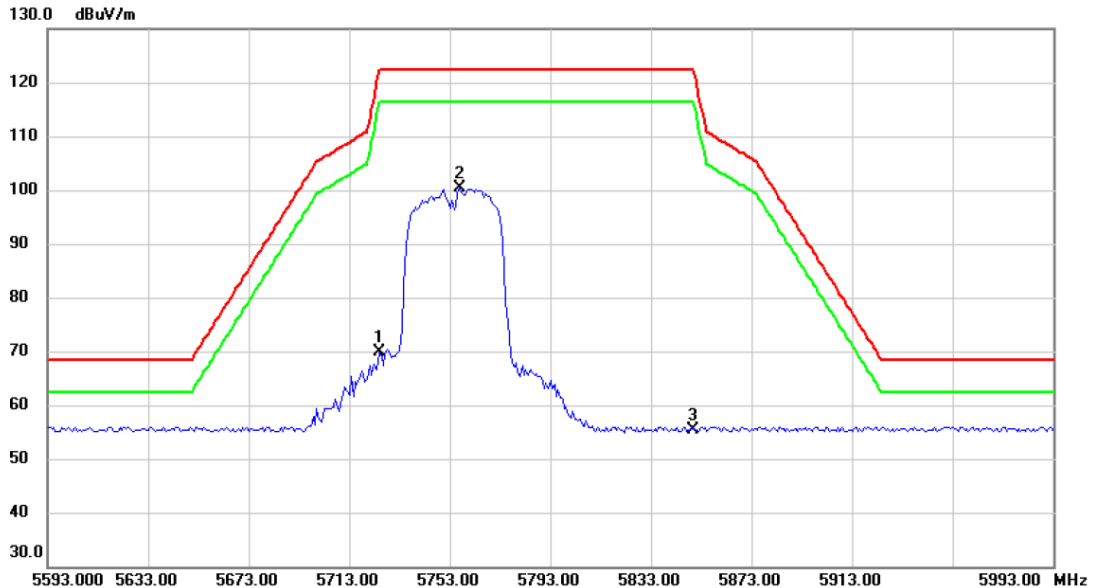


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	50.28	15.88	66.16	122.3	-56.14	peak
2	*	5753.000	81.17	15.97	97.14	122.3	-25.16	peak
3		5850.000	37.94	16.27	54.21	122.3	-68.09	peak

Remark:

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

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT40) Mode 5755 MHz (U-NII-3)		
Remark:			

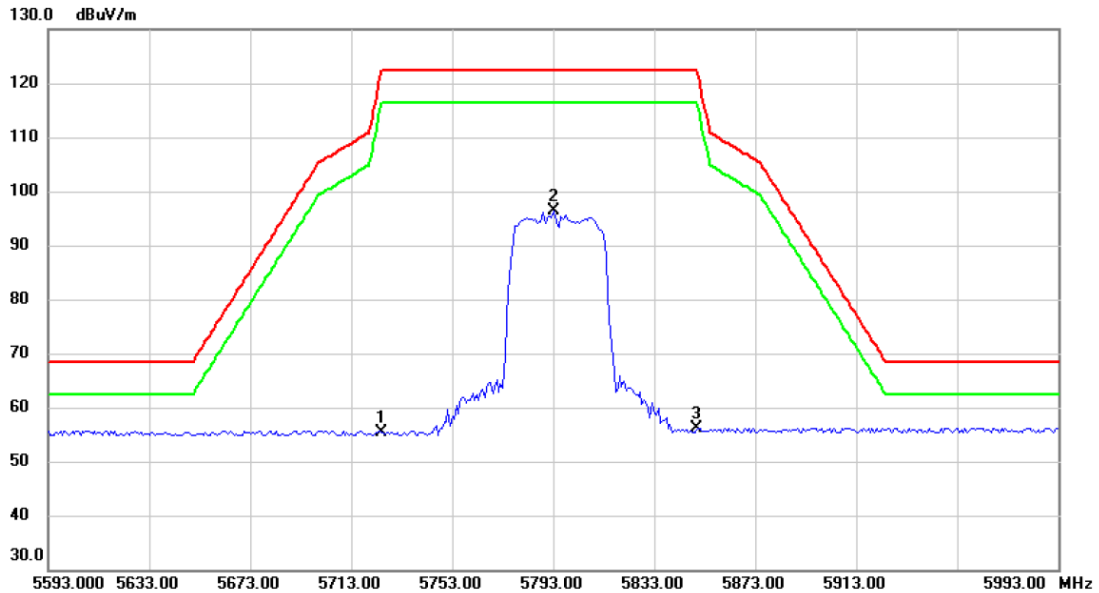


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	54.00	15.88	69.88	122.3	-52.42	peak
2	*	5757.000	84.32	15.98	100.30	122.3	-22.00	peak
3		5850.000	39.20	16.27	55.47	122.3	-66.83	peak

Remark:

- 1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
- 2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
- 3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT40) Mode 5795 MHz (U-NII-3)		
Remark:			

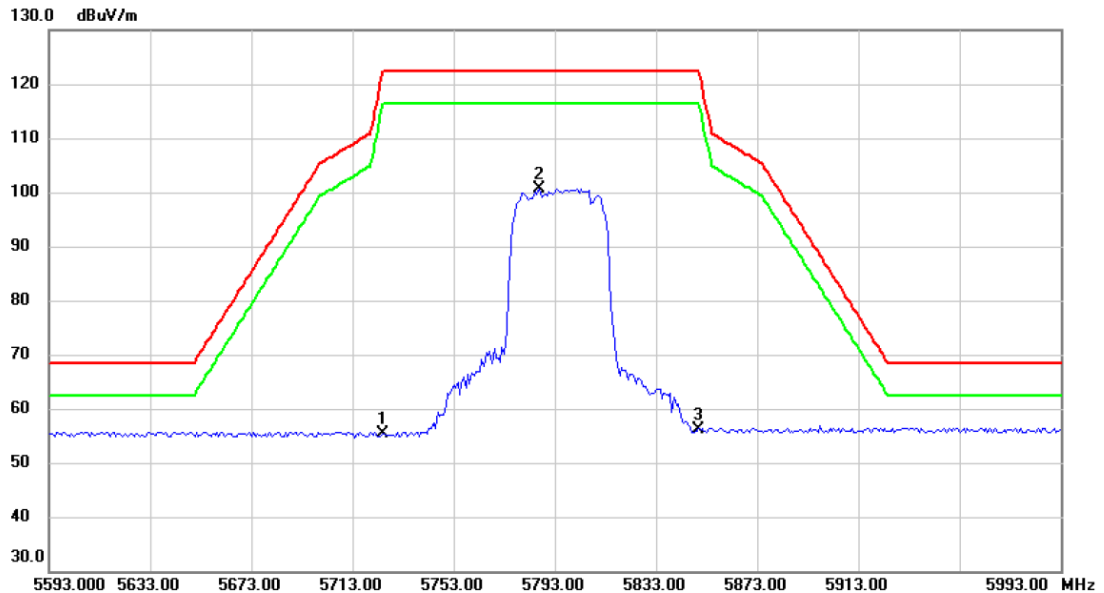


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	39.53	15.88	55.41	122.3	-66.89	peak
2	*	5793.000	80.34	16.09	96.43	122.3	-25.87	peak
3		5850.000	39.76	16.27	56.03	122.3	-66.27	peak

Remark:

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

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	DC 7.6V		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT40) Mode 5795 MHz (U-NII-3)		
Remark:			



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		5725.000	39.47	15.88	55.35	122.3	-66.95	peak
2	*	5786.600	84.64	16.07	100.71	122.3	-21.59	peak
3		5850.000	39.79	16.27	56.06	122.3	-66.24	peak

Remark:

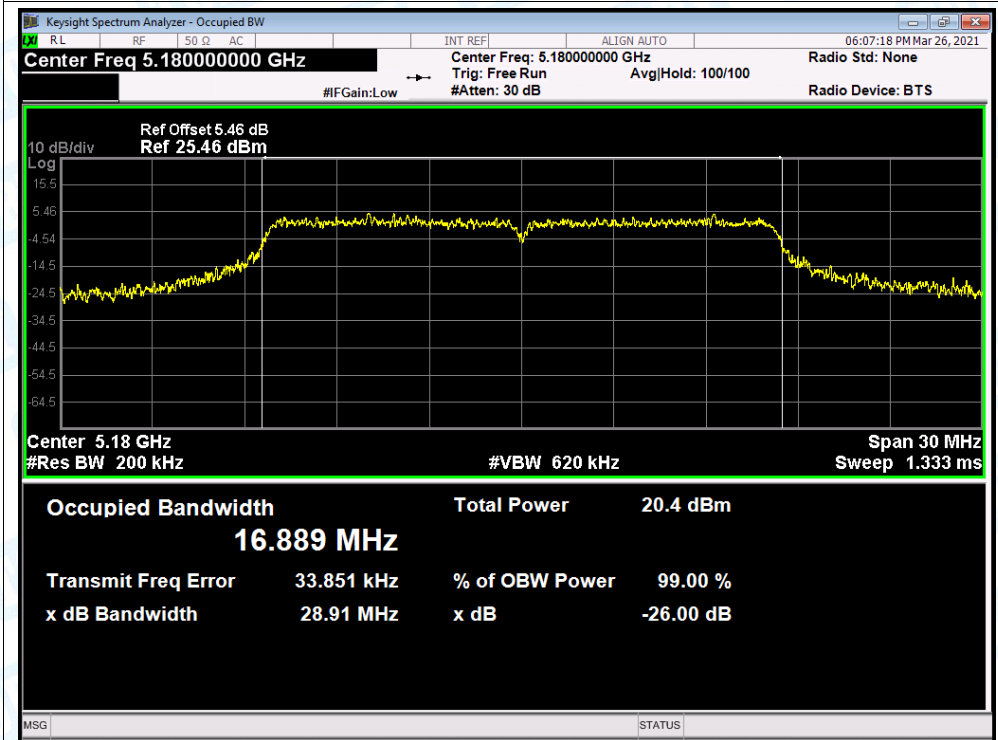
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Attachment D--Bandwidth Test Data

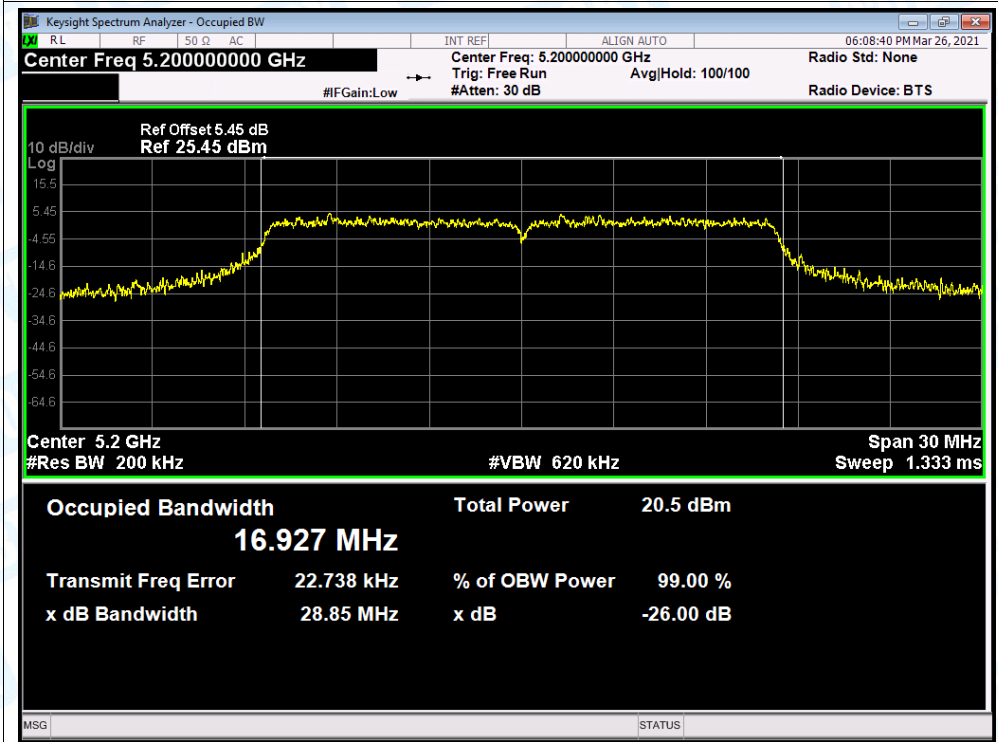
Condition	Mode	Frequency (MHz)	-26dB BW (MHz)	99% OBW (MHz)
NVNT	a	5180	28.91	16.889
NVNT	a	5200	28.85	16.927
NVNT	a	5240	27.94	16.892
NVNT	n(HT20)	5180	26.43	17.982
NVNT	n(HT20)	5200	28.60	17.960
NVNT	n(HT20)	5240	26.51	17.900
NVNT	n(HT40)	5190	49.54	36.149
NVNT	n(HT40)	5230	47.94	36.194

Test Graphs

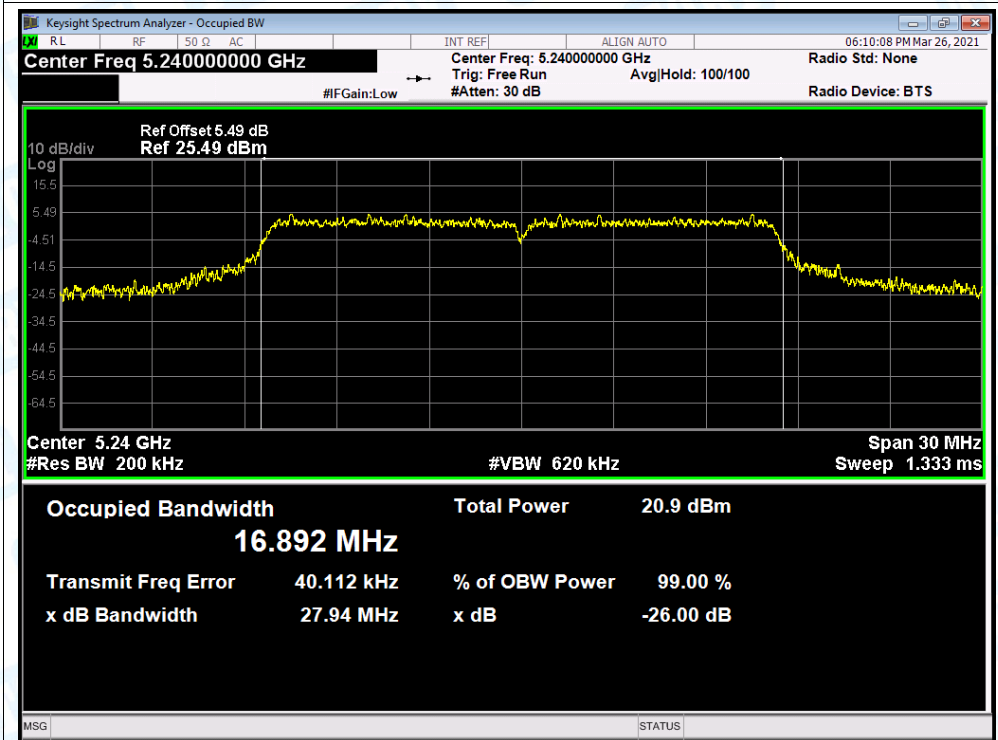
OBW NVNT a 5180MHz Ant1



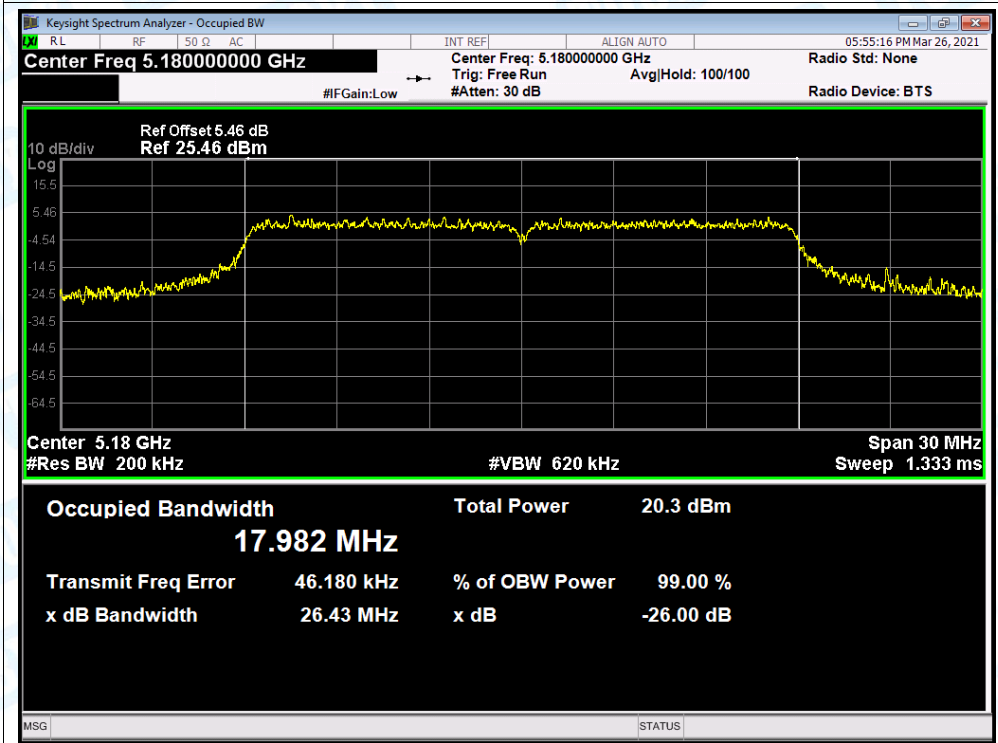
OBW NVNT a 5200MHz Ant1



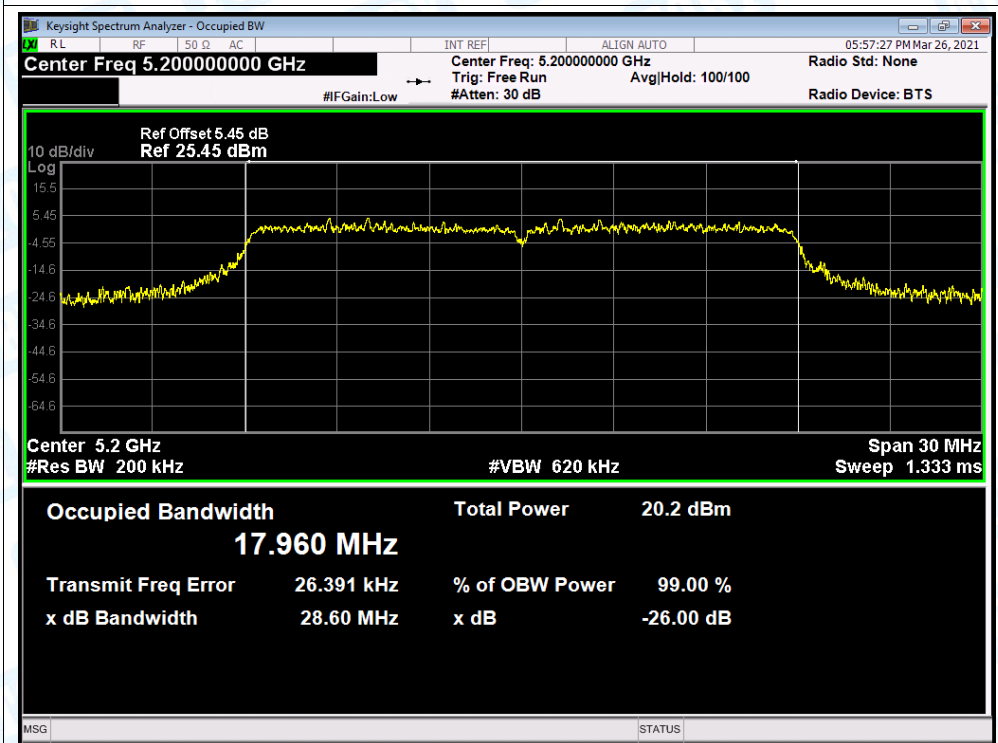
OBW NVNT a 5240MHz Ant1



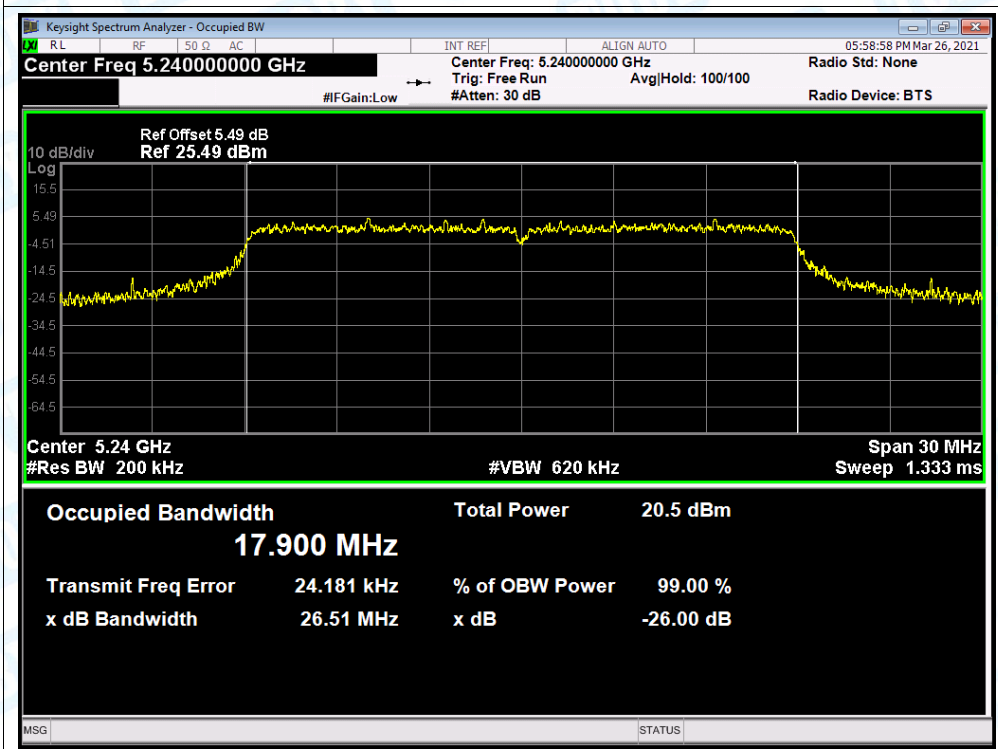
OBW NVNT n(HT20) 5180MHz Ant1



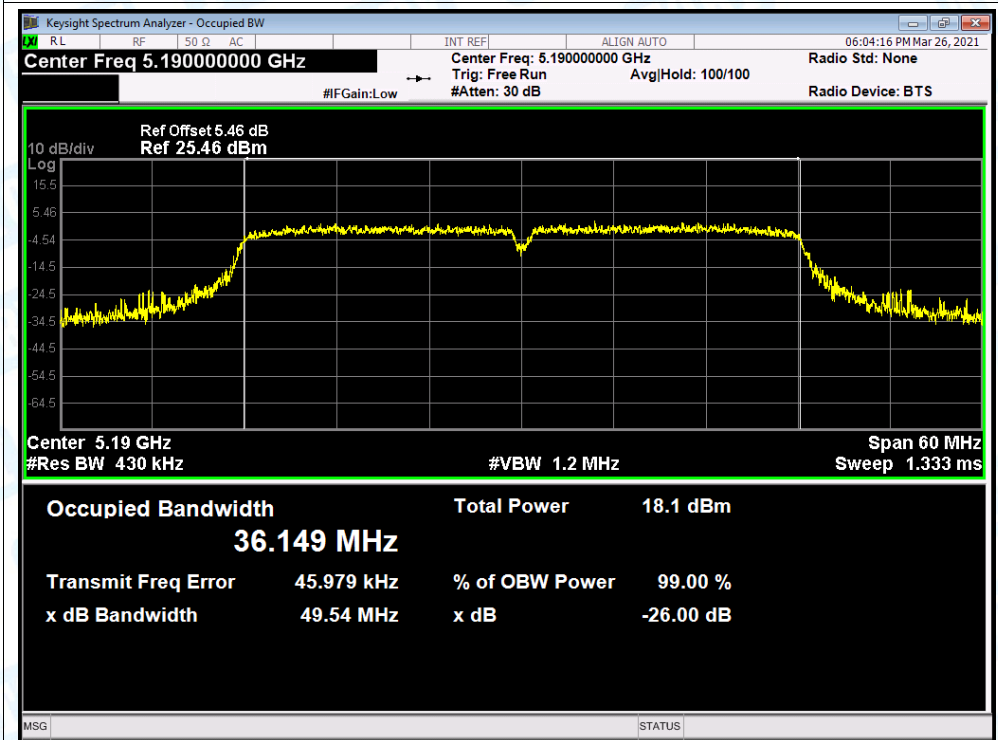
OBW NVNT n(HT20) 5200MHz Ant1



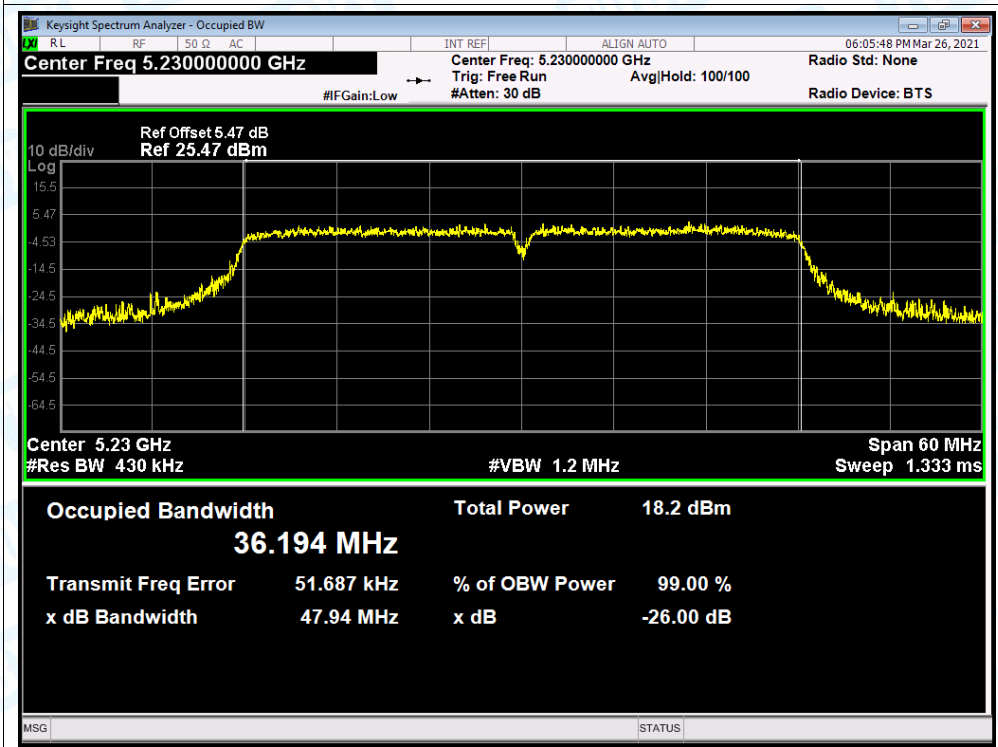
OBW NVNT n(HT20) 5240MHz Ant1



OBW NVNT n(HT40) 5190MHz Ant1



OBW NVNT n(HT40) 5230MHz Ant1

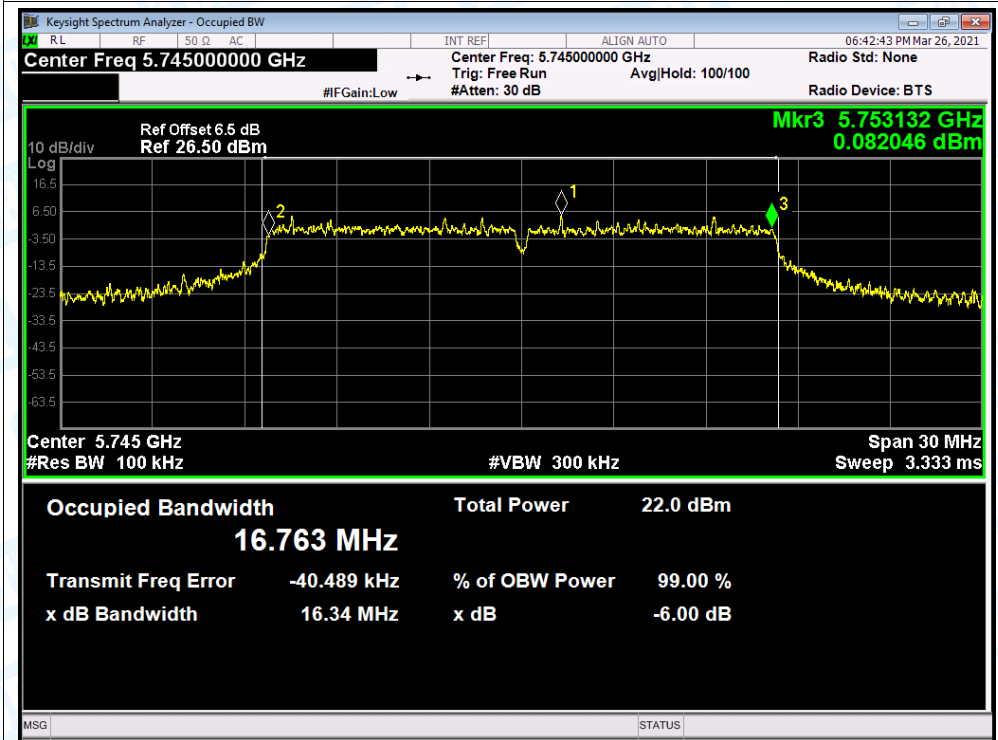


-6dB Bandwidth

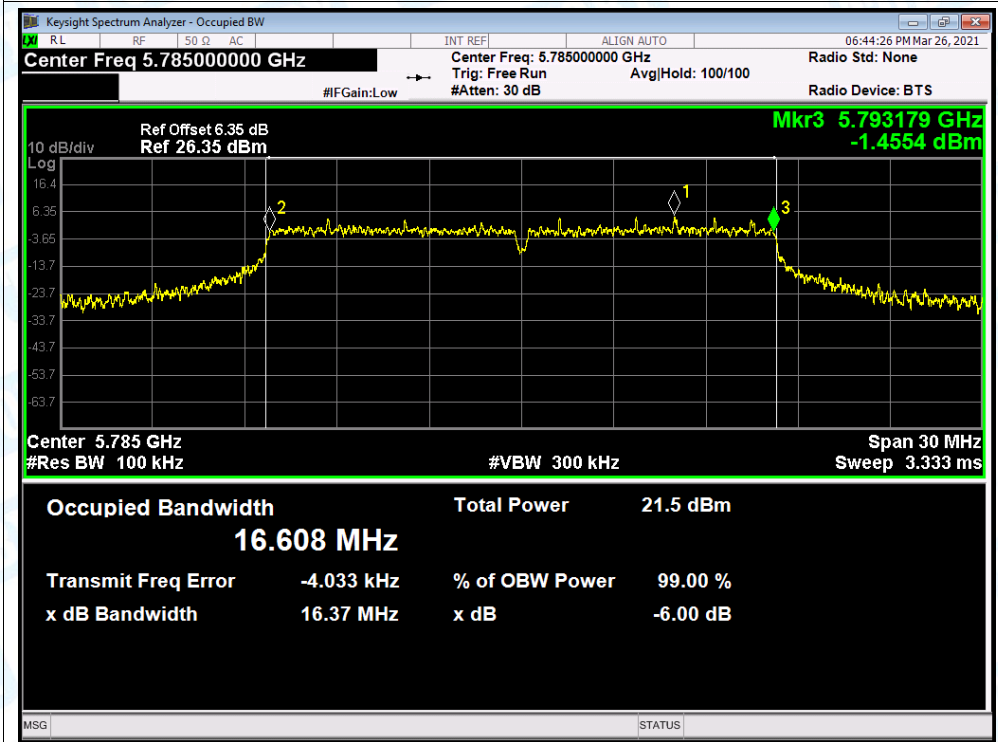
Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	16.345	0.5	Pass
NVNT	a	5785	16.366	0.5	Pass
NVNT	a	5825	16.358	0.5	Pass
NVNT	n(HT20)	5745	17.565	0.5	Pass
NVNT	n(HT20)	5785	17.569	0.5	Pass
NVNT	n(HT20)	5825	17.552	0.5	Pass
NVNT	n(HT40)	5755	35.042	0.5	Pass
NVNT	n(HT40)	5795	35.067	0.5	Pass

Test Graphs

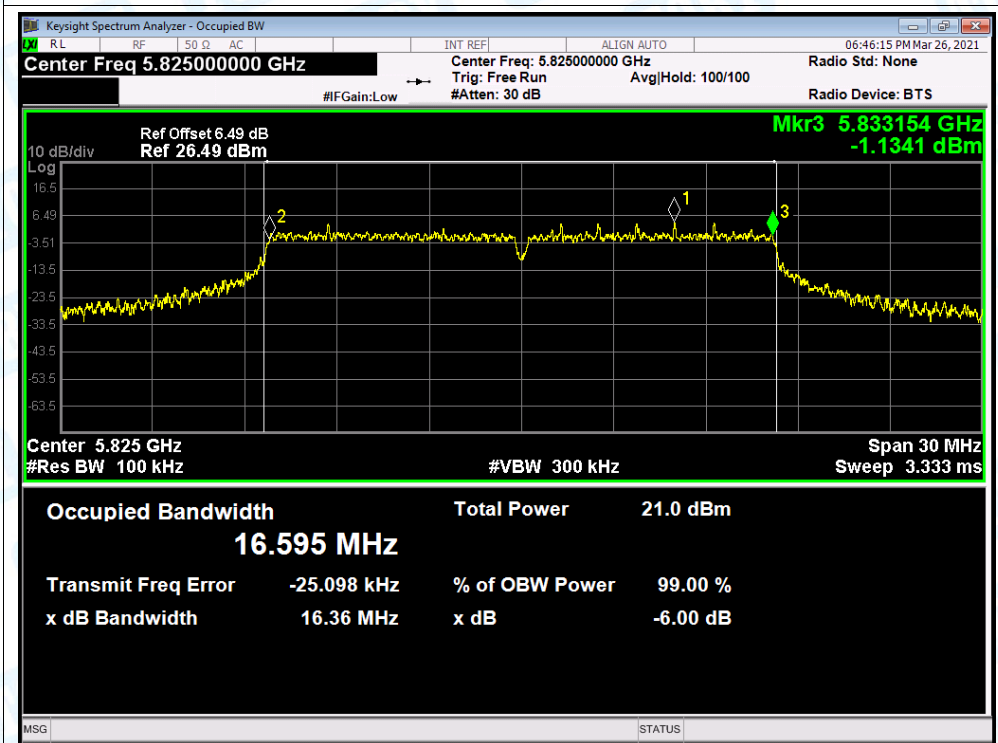
-6dB Bandwidth NVNT a 5745MHz Ant1



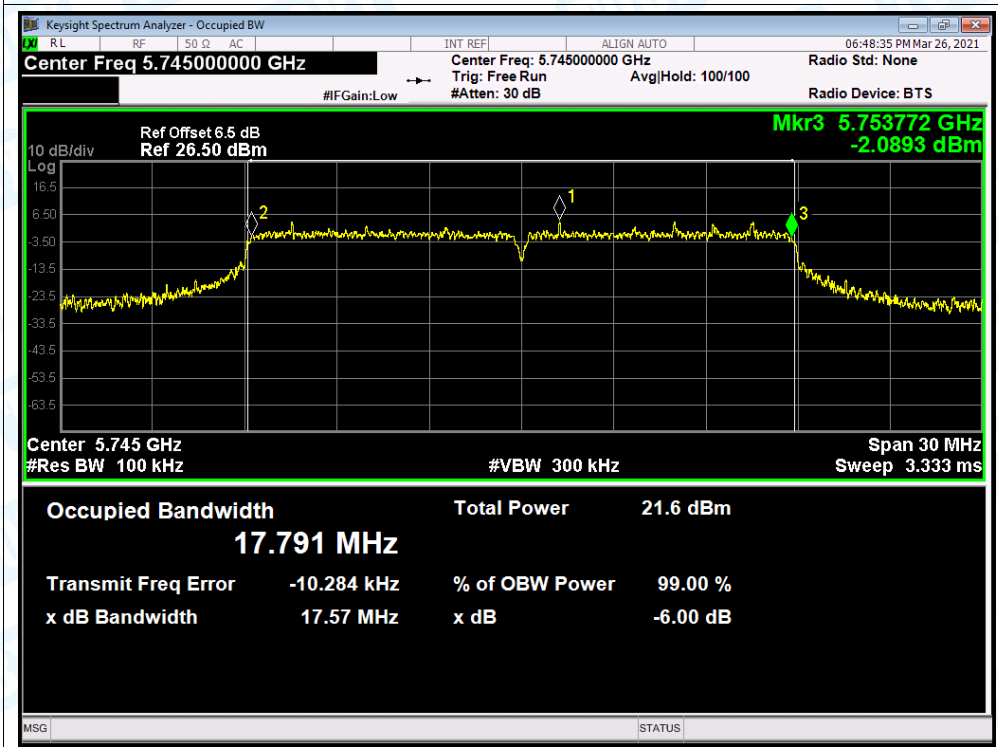
-6dB Bandwidth NVNT a 5785MHz Ant1



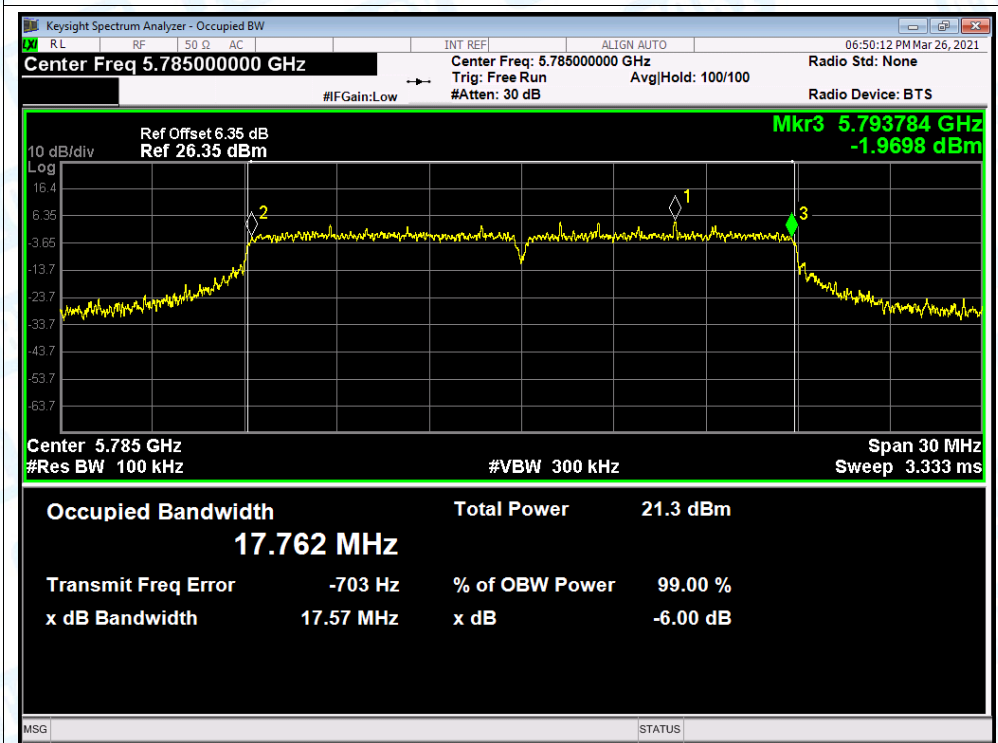
-6dB Bandwidth NVNT a 5825MHz Ant1



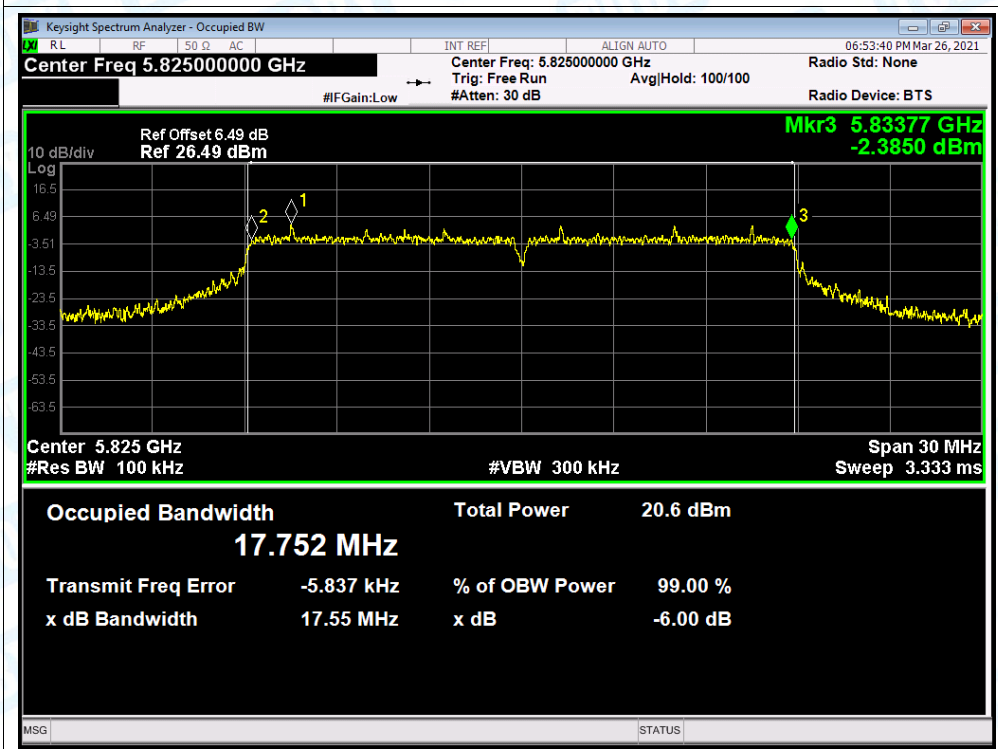
-6dB Bandwidth NVNT n(HT20) 5745MHz Ant1



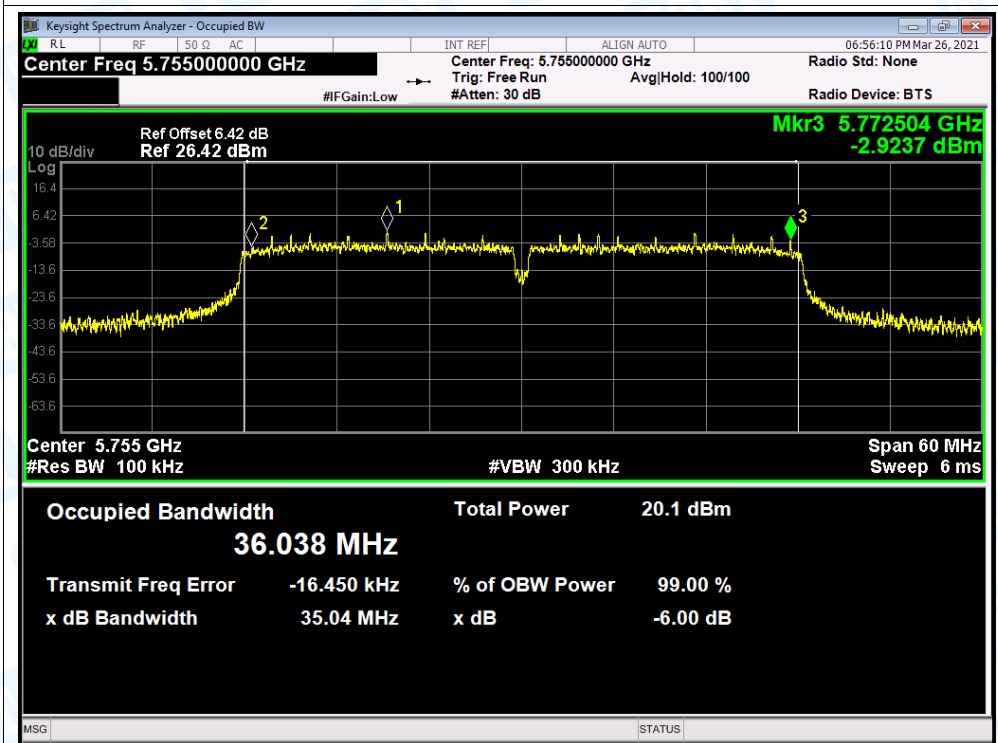
-6dB Bandwidth NVNT n(HT20) 5785MHz Ant1



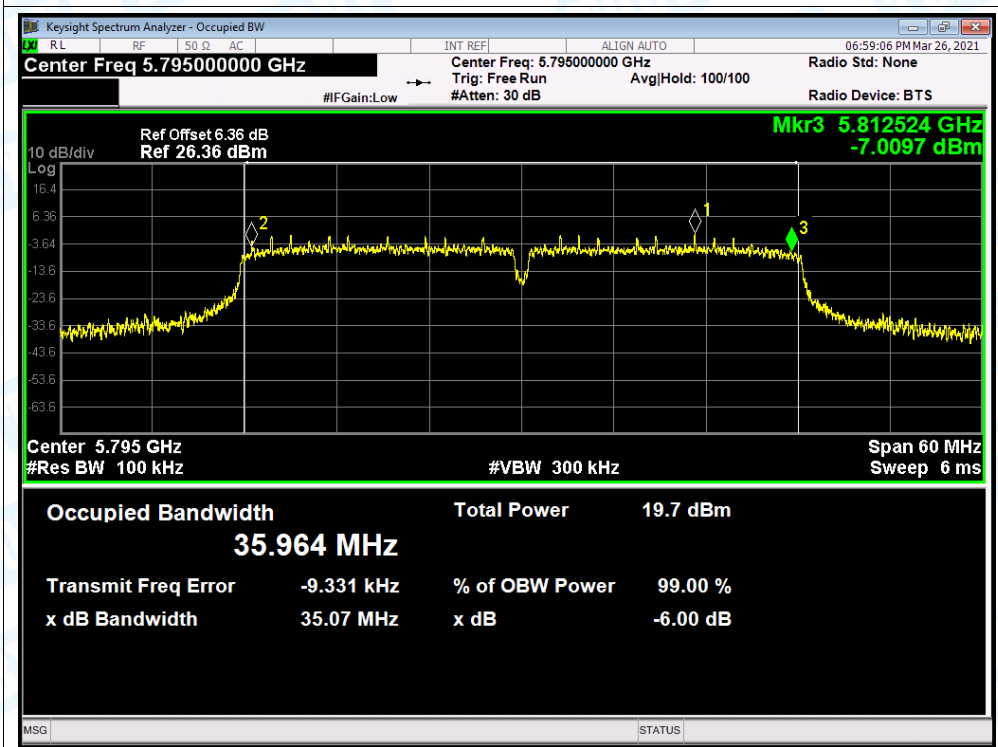
-6dB Bandwidth NVNT n(HT20) 5825MHz Ant1



-6dB Bandwidth NVNT n(HT40) 5755MHz Ant1



-6dB Bandwidth NVNT n(HT40) 5795MHz Ant1

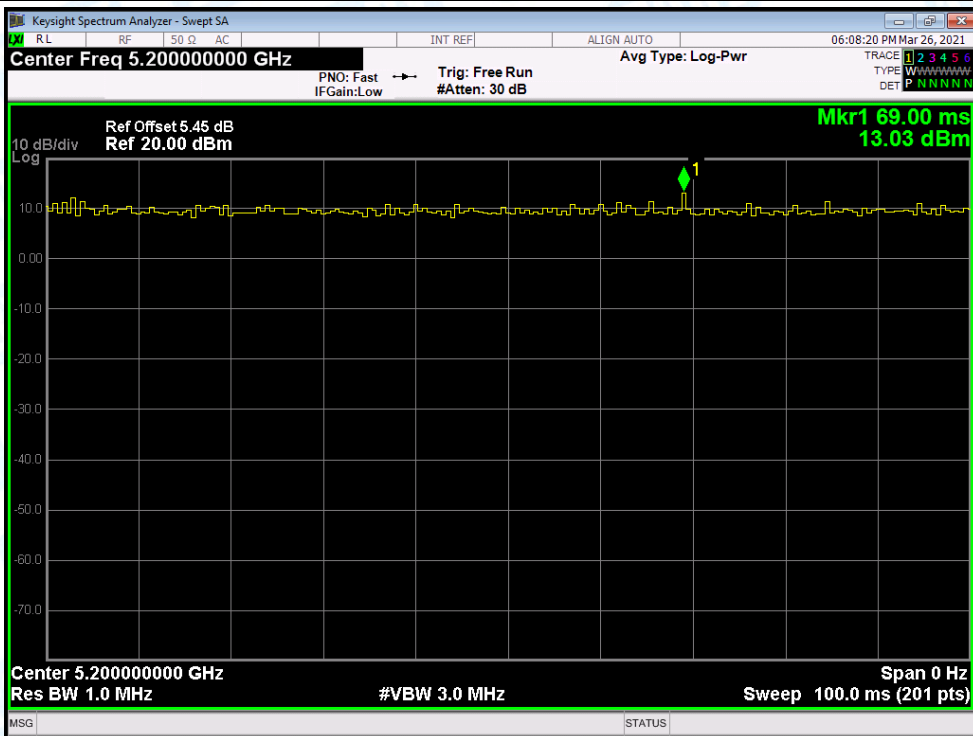


Attachment E--AVG Output Power Test Data

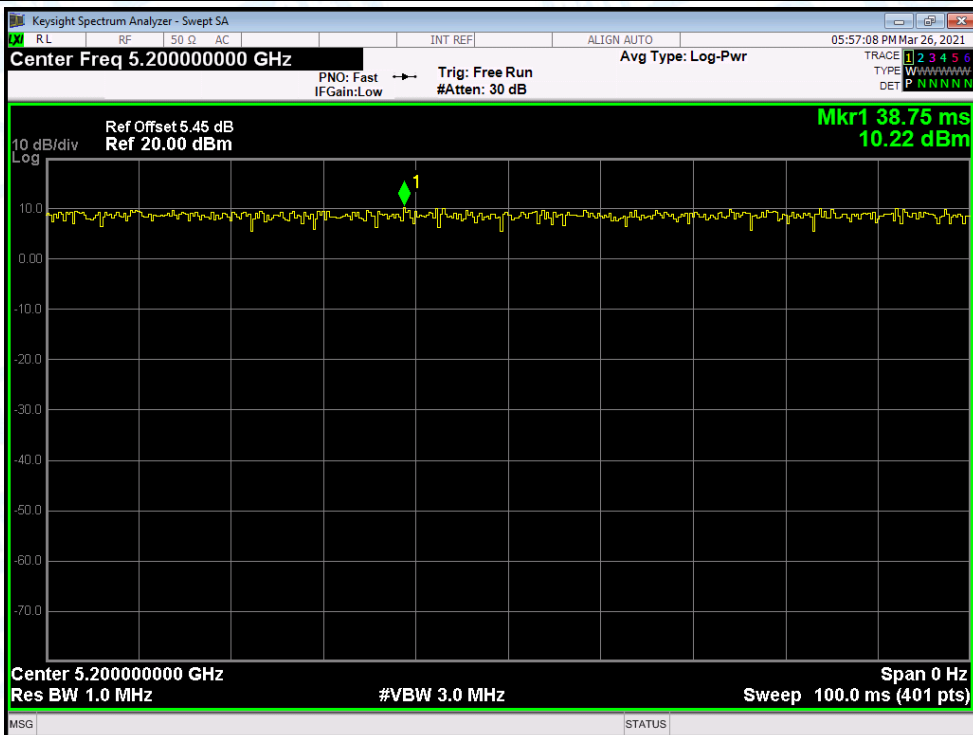
Temperature: 25 °C		Relative Humidity: 55%			
Test Voltage: DC 7.6V					
U-NII-1					
Test Mode	Frequency (MHz)	Test Data			Limit (dBm)
		Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	
802.11a	5180	14.378	0	14.378	24
	5200	14.394	0	14.394	
	5240	14.639	0	14.639	
802.11n (HT20)	5180	14.192	0	14.192	
	5200	13.999	0	13.999	
	5240	14.315	0	14.315	
802.11n (HT40)	5190	11.309	0	11.309	
	5230	11.668	0	11.668	
Result: PASS					
U-NII-3					
Test Mode	Frequency (MHz)	Test Data			Limit (dBm)
		Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	
802.11a	5745	15.383	0	15.383	30
	5785	15.359	0	15.359	
	5825	14.607	0	14.607	
802.11n (HT20)	5745	14.772	0	14.772	
	5785	15.187	0	15.187	
	5825	14.509	0	14.509	
802.11n (HT40)	5755	12.916	0	12.916	
	5795	12.671	0	12.671	
Result: PASS					

Test Mode		Duty cycle
U-NII-1	802.11 a	>98%
	802.11 n(HT20)	
	802.11 n(HT40)	
U-NII-3	802.11 a	
	802.11 n(HT20)	
	802.11 n(HT40)	
Please see the next plots.		

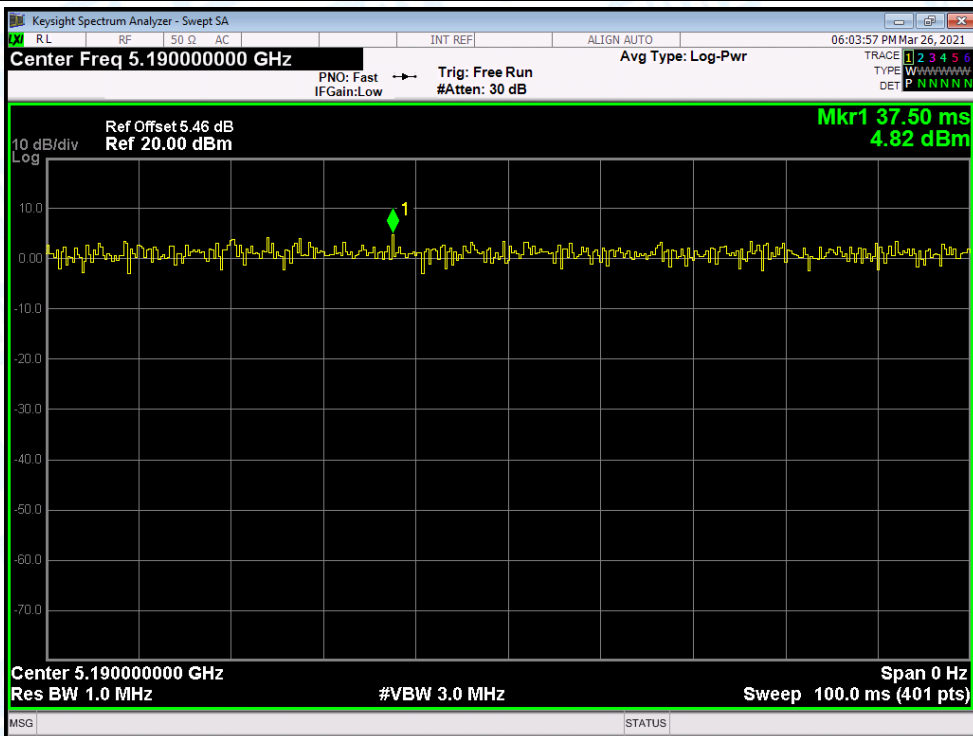
802.11 a 5200MHz U-NII-1



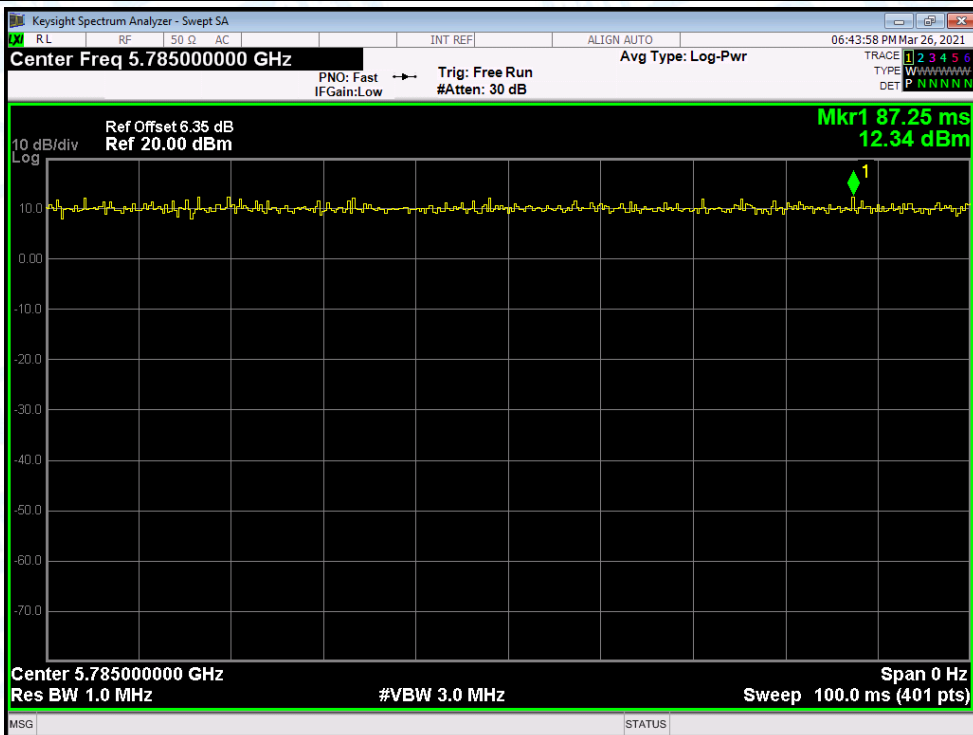
802.11 n(HT20) 5200MHz U-NII-1



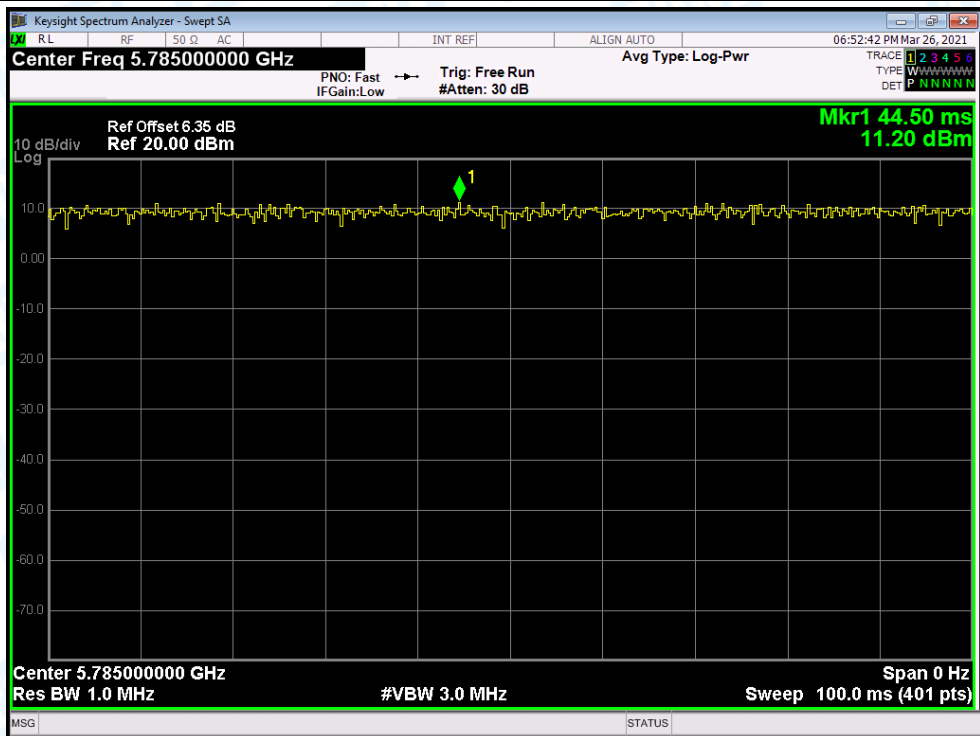
802.11 n(HT40) 5190MHz U-NII-1



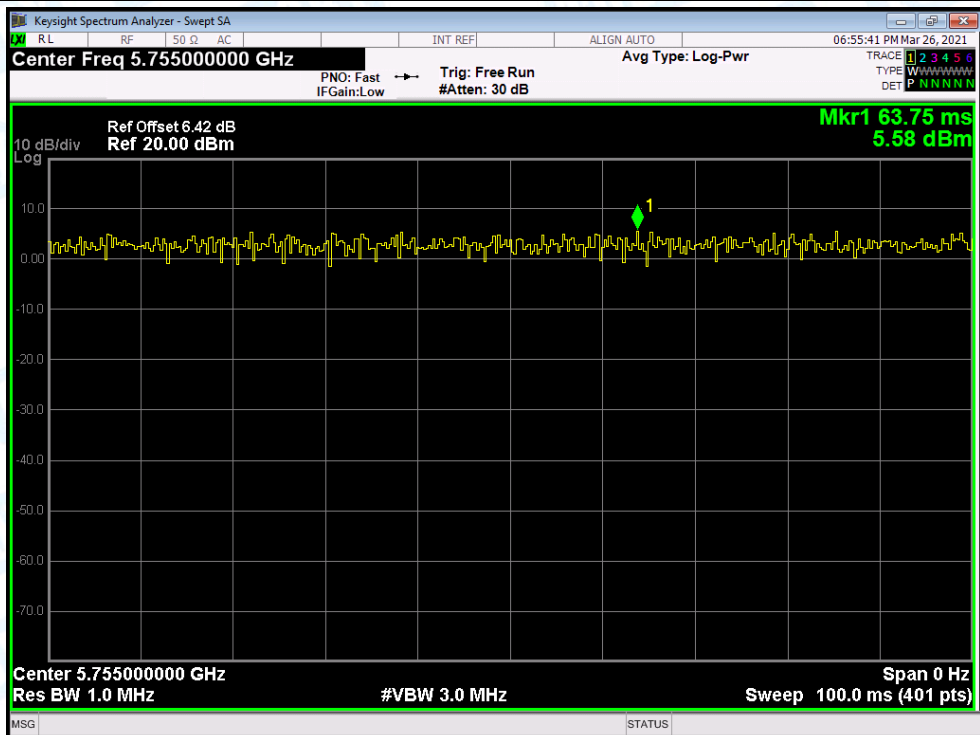
802.11 a 5785MHz U-NII-3



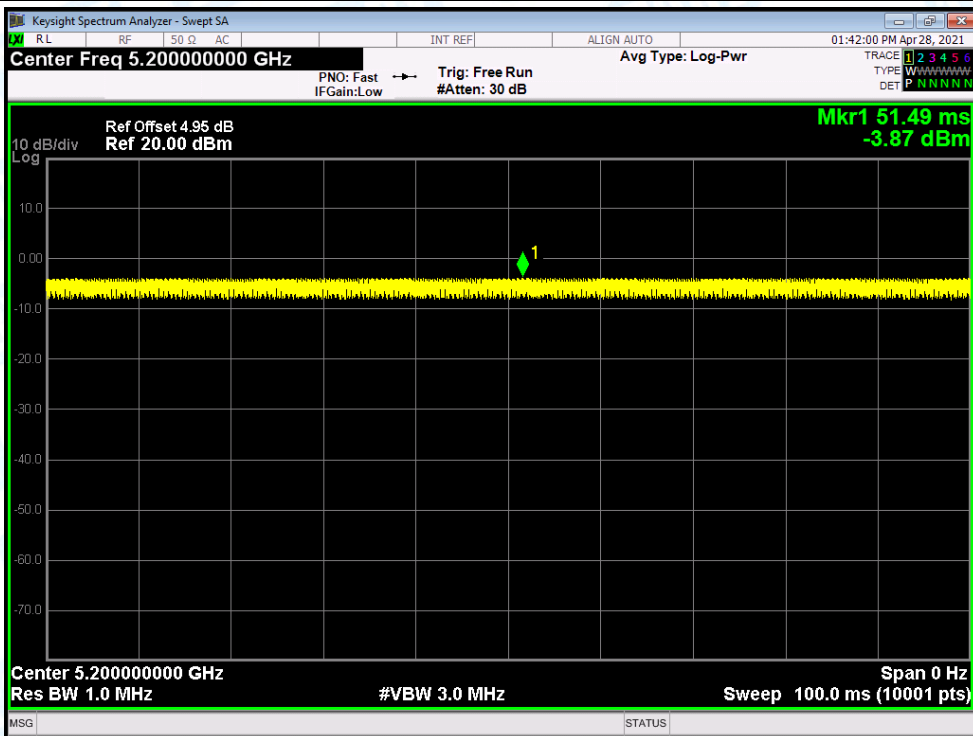
802.11 n(HT20) 5785MHz U-NII-3



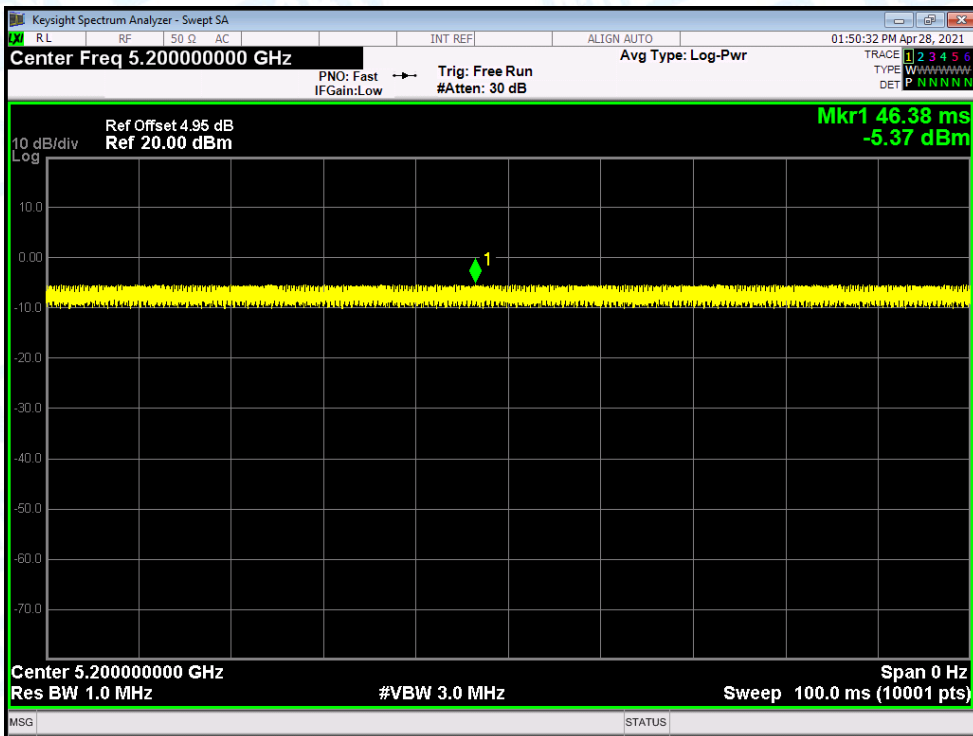
802.11 n(HT40) 5755MHz U-NII-3



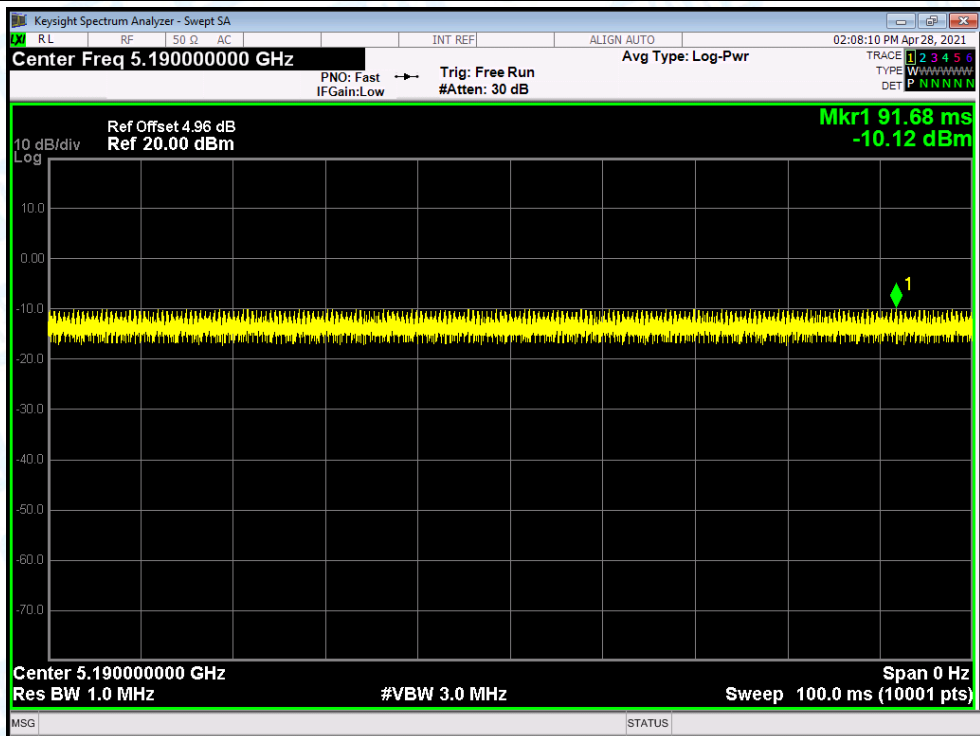
802.11 a 5200MHz U-NII-1



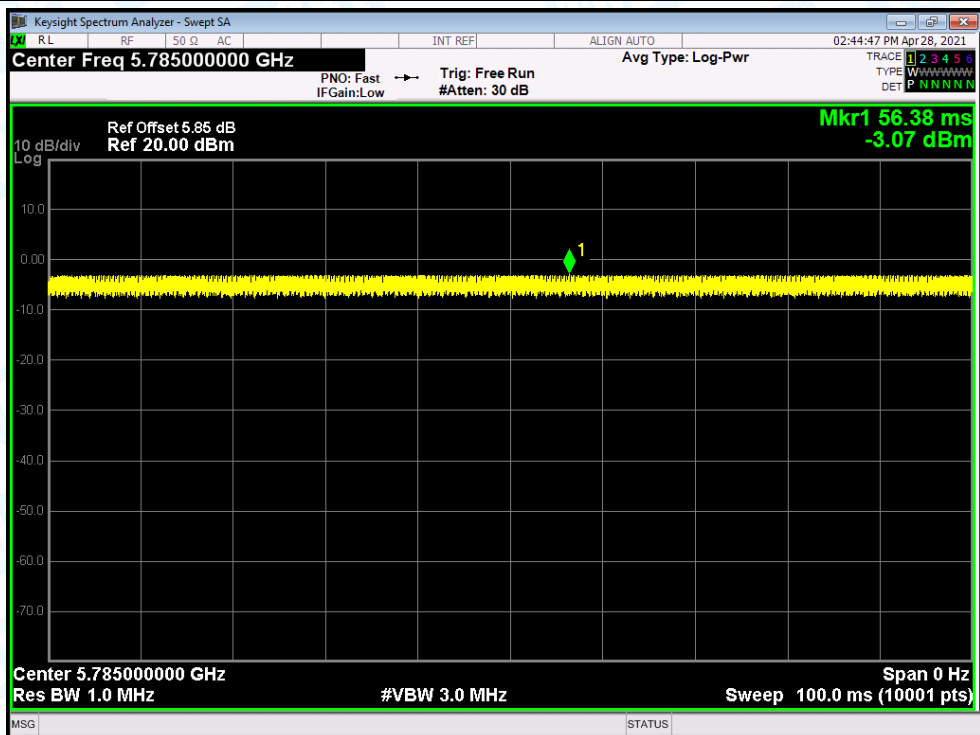
802.11 n(HT20) 5200MHz U-NII-1



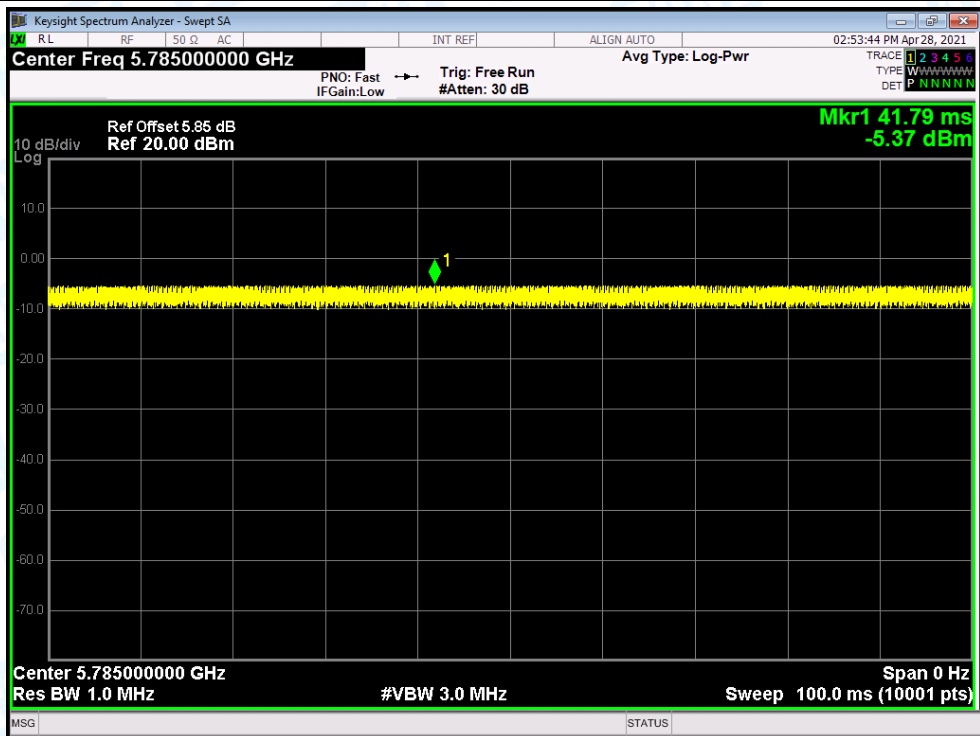
802.11 n(HT40) 5190MHz U-NII-1



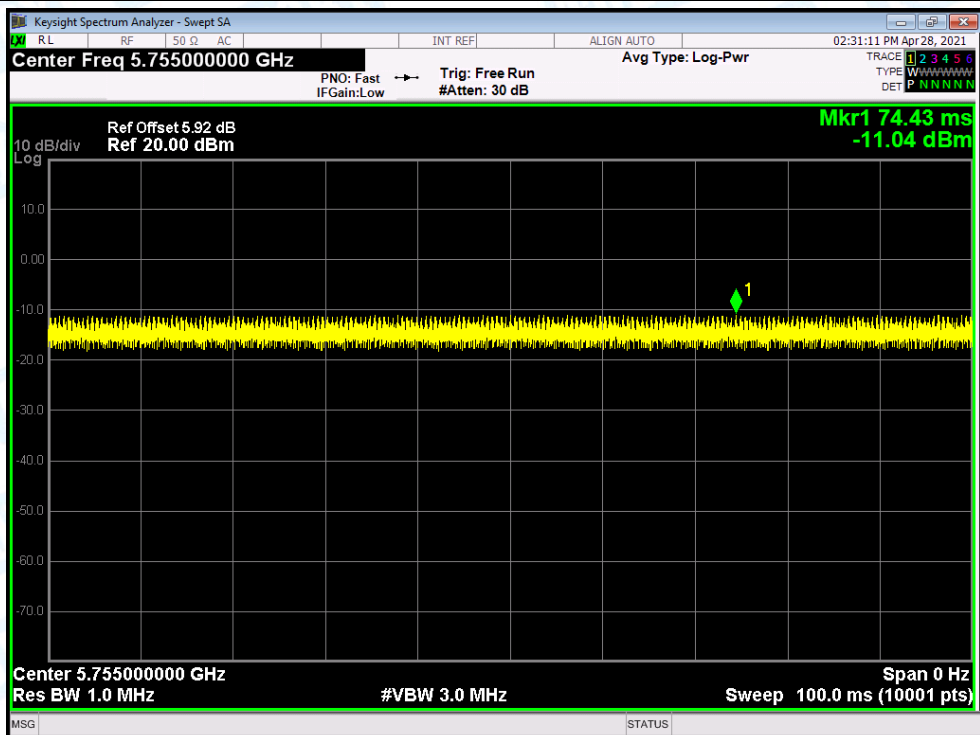
802.11 a 5785MHz U-NII-3



802.11 n(HT20) 5785MHz U-NII-3



802.11 n(HT40) 5755MHz U-NII-3



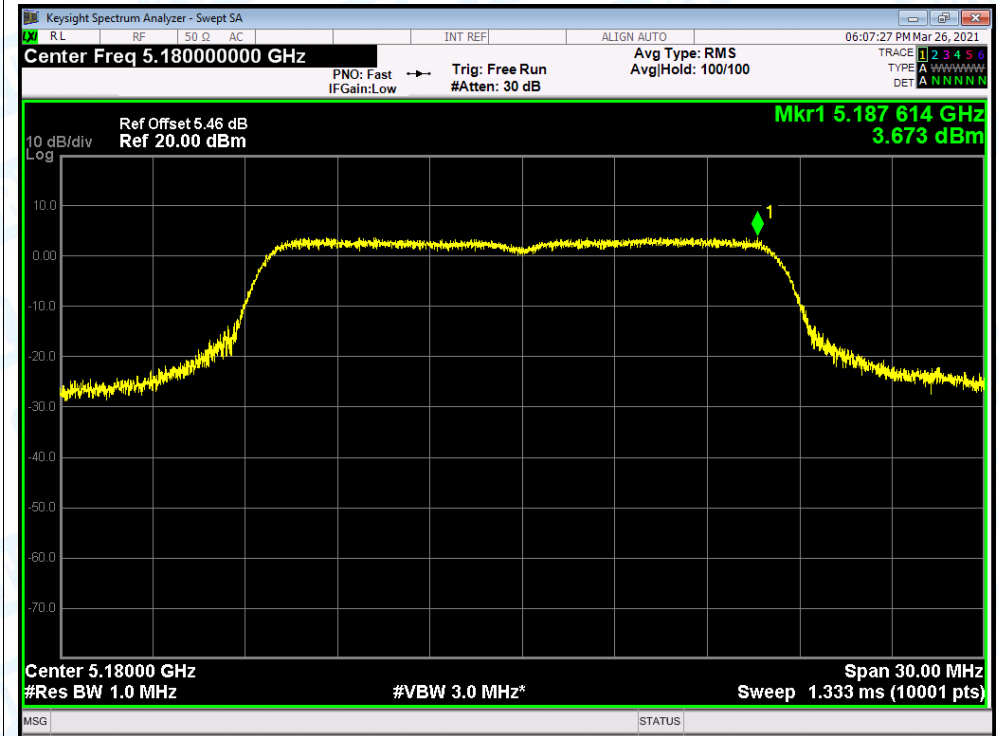
Attachment F-- Power Spectral Density Test Data

U-NII-1					
Condition	Mode	Frequency (MHz)	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	3.673	11	Pass
NVNT	a	5200	3.948	11	Pass
NVNT	a	5240	4.24	11	Pass
NVNT	n(HT20)	5180	3.447	11	Pass
NVNT	n(HT20)	5200	3.272	11	Pass
NVNT	n(HT20)	5240	3.661	11	Pass
NVNT	n(HT40)	5190	-1.798	11	Pass
NVNT	n(HT40)	5230	-1.903	11	Pass

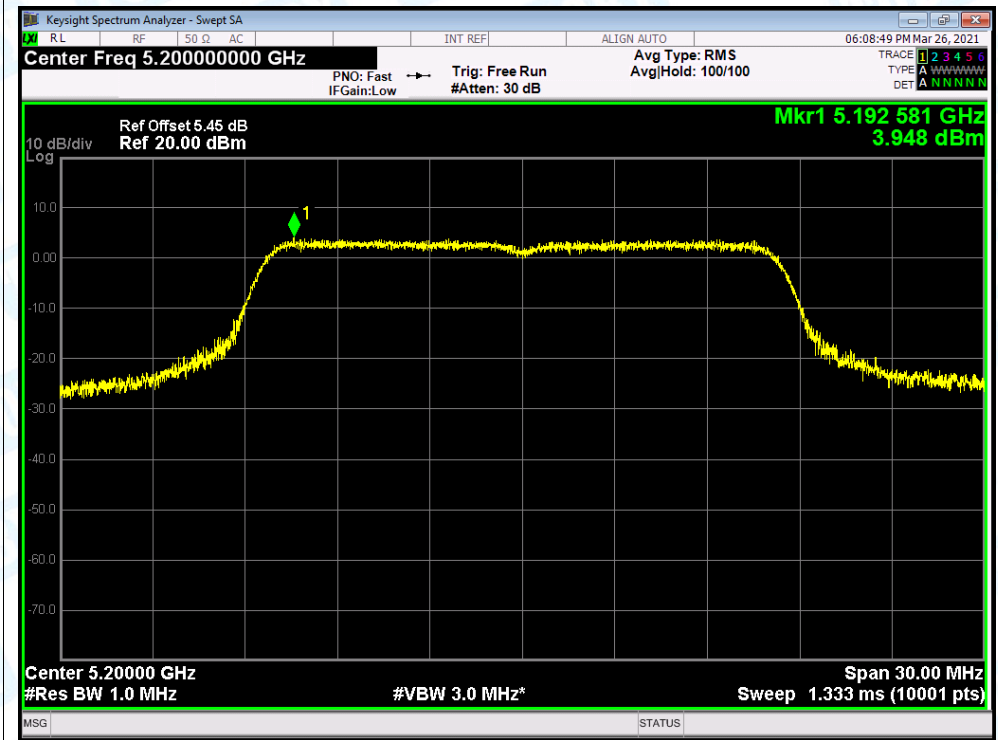
U-NII-3					
Condition	Mode	Frequency (MHz)	Max PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	2.077	30	Pass
NVNT	a	5785	1.406	30	Pass
NVNT	a	5825	1.205	30	Pass
NVNT	n(HT20)	5745	1.209	30	Pass
NVNT	n(HT20)	5785	0.548	30	Pass
NVNT	n(HT20)	5825	0.252	30	Pass
NVNT	n(HT40)	5755	-3.617	30	Pass
NVNT	n(HT40)	5795	-3.496	30	Pass

Test Graphs

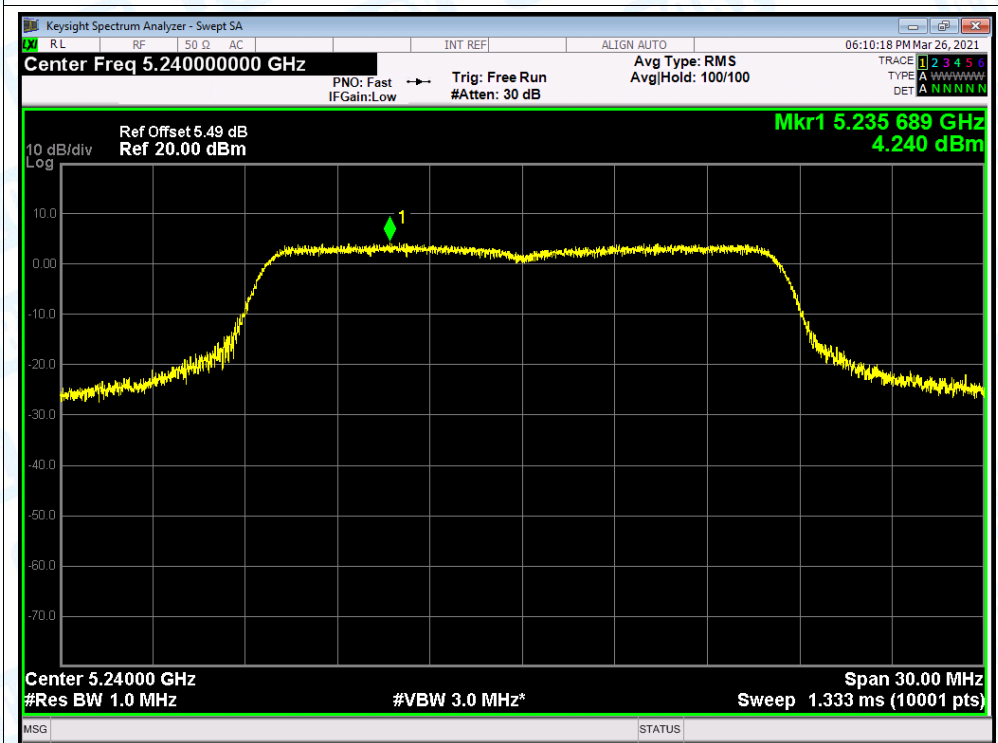
PSD NVNT a 5180MHz Ant1



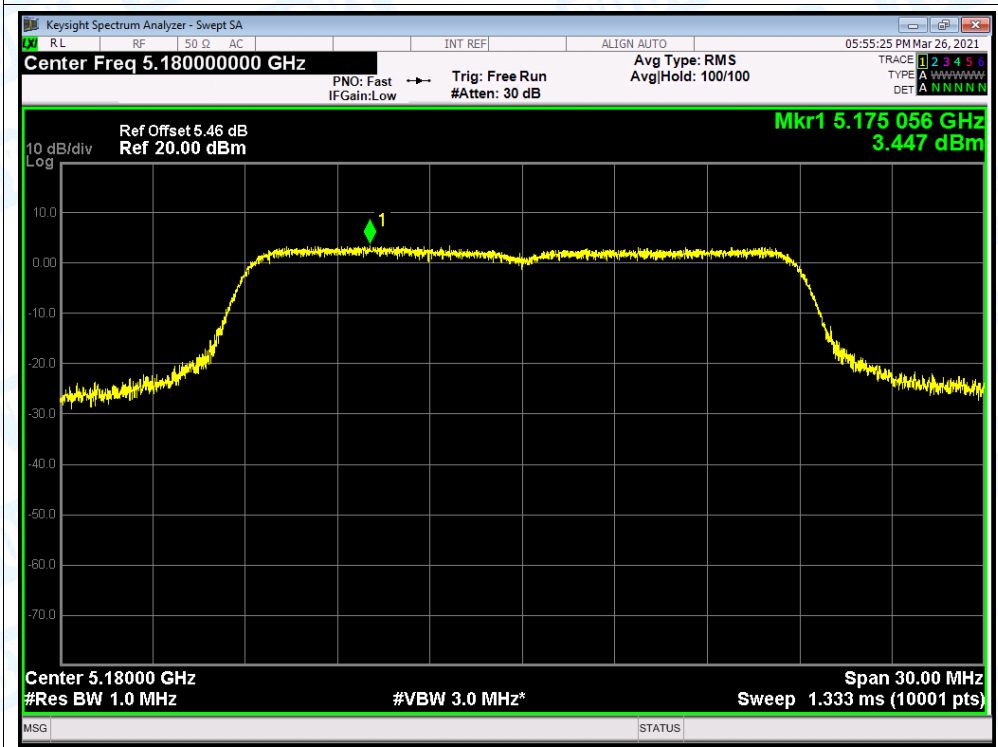
PSD NVNT a 5200MHz Ant1



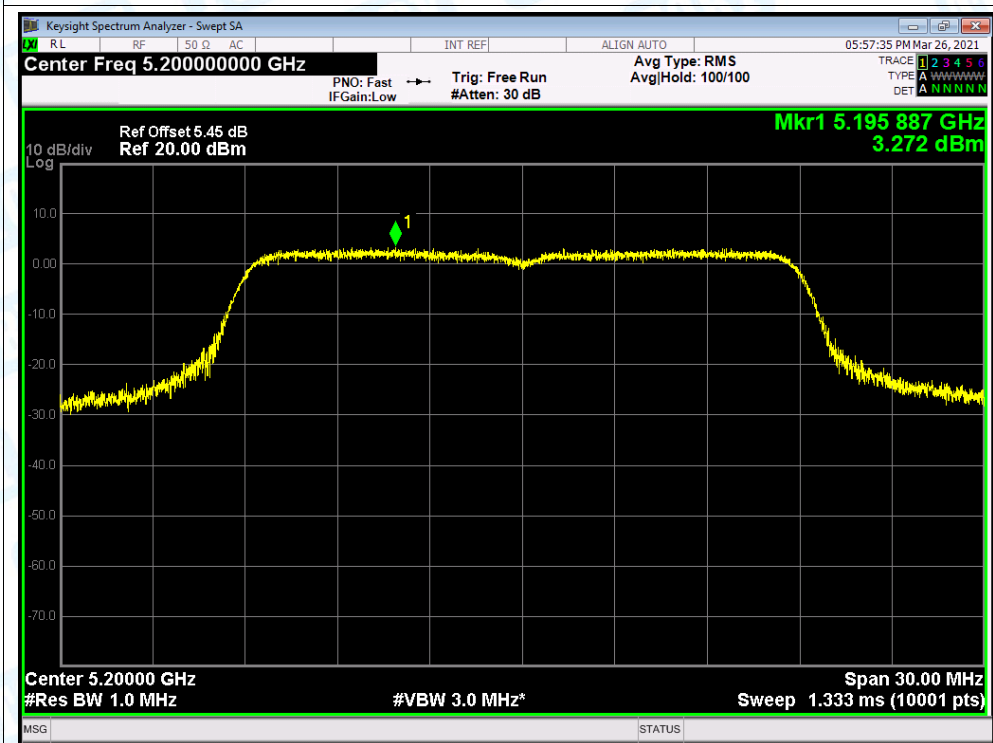
PSD NVNT a 5240MHz Ant1



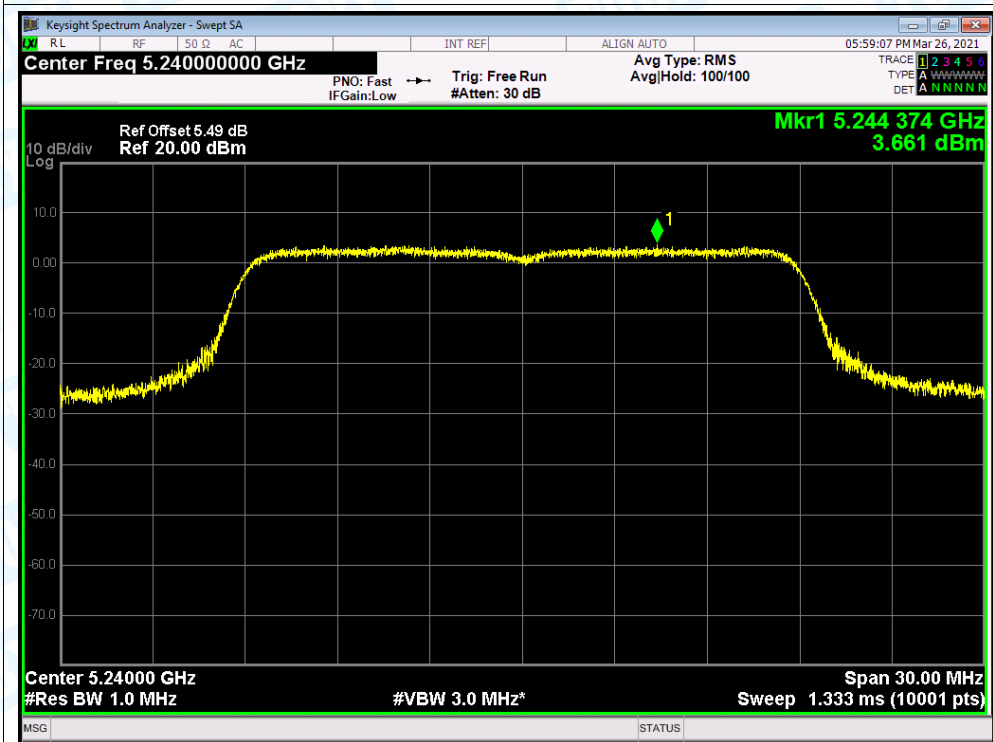
PSD NVNT n(HT20) 5180MHz Ant1



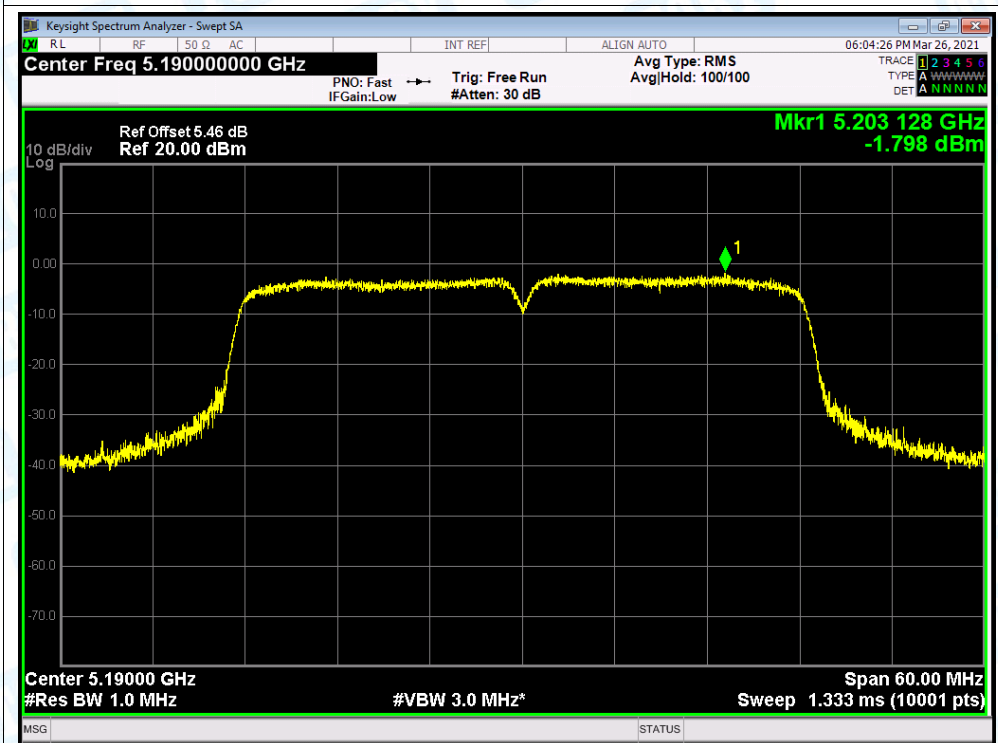
PSD NVNT n(HT20) 5200MHz Ant1



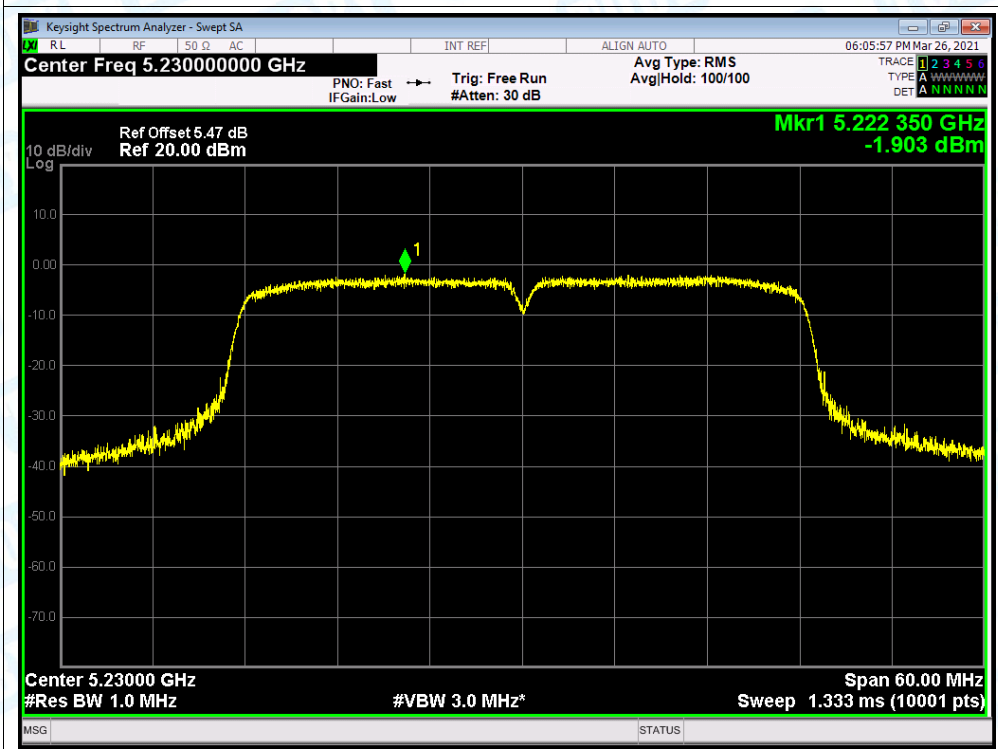
PSD NVNT n(HT20) 5240MHz Ant1



PSD NVNT n(HT40) 5190MHz Ant1

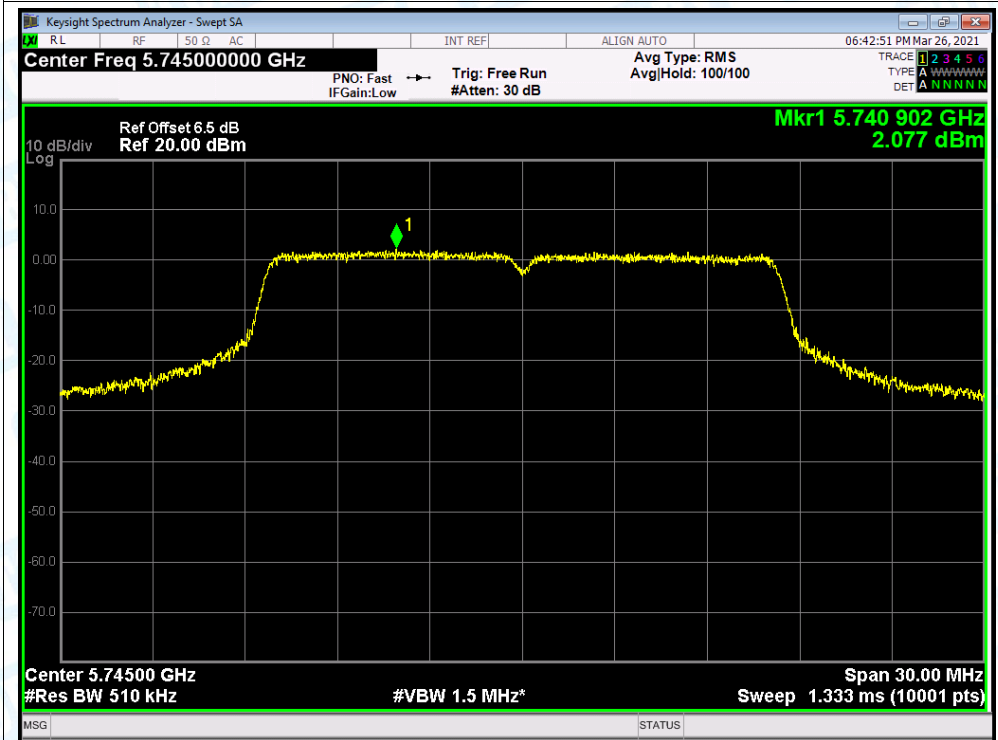


PSD NVNT n(HT40) 5230MHz Ant1

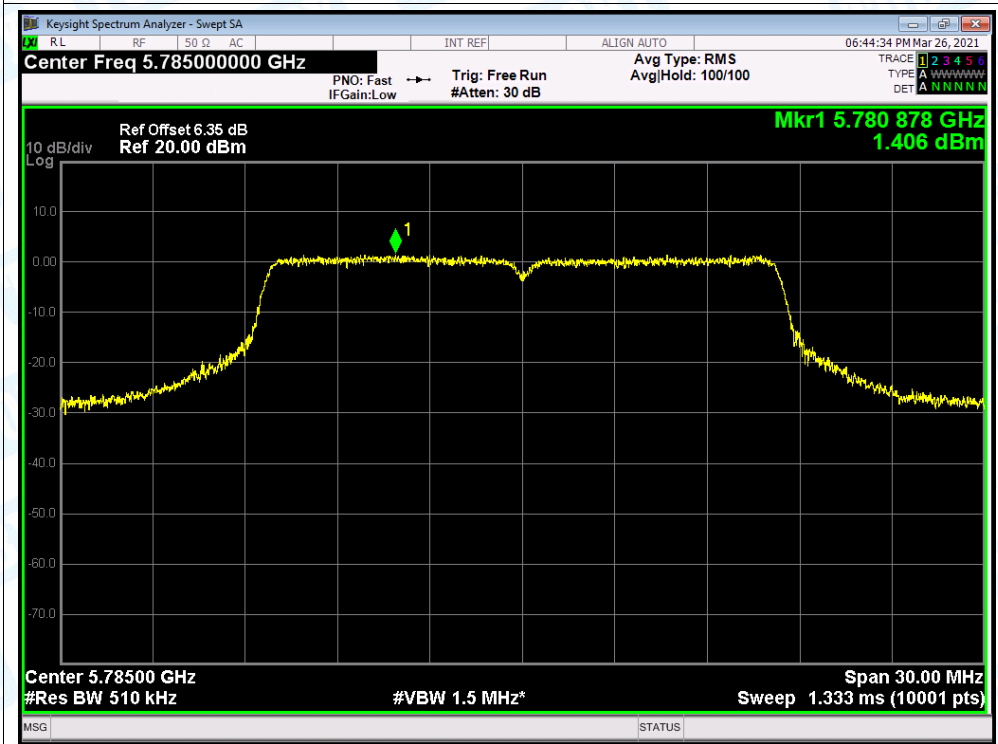


Test Graphs

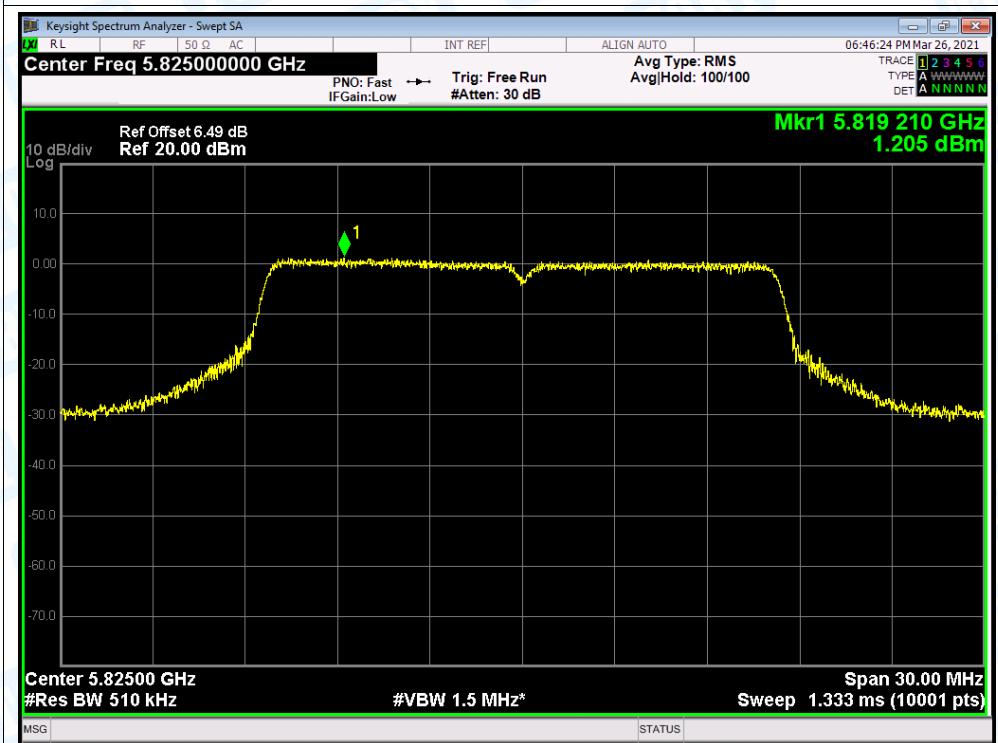
PSD NVNT a 5745MHz Ant1



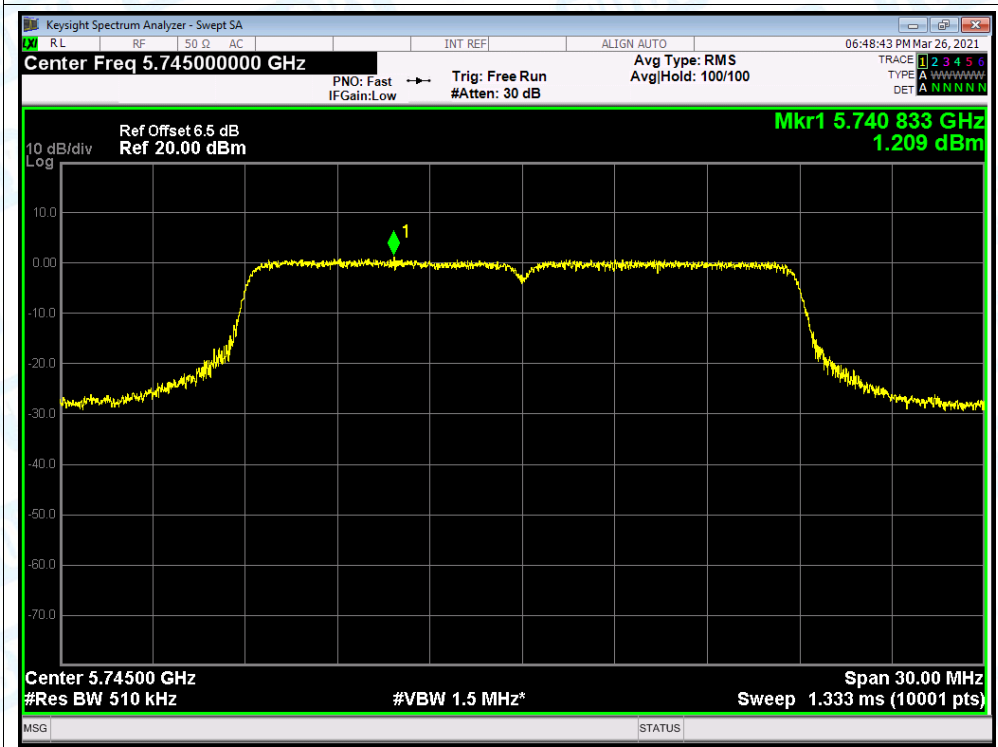
PSD NVNT a 5785MHz Ant1



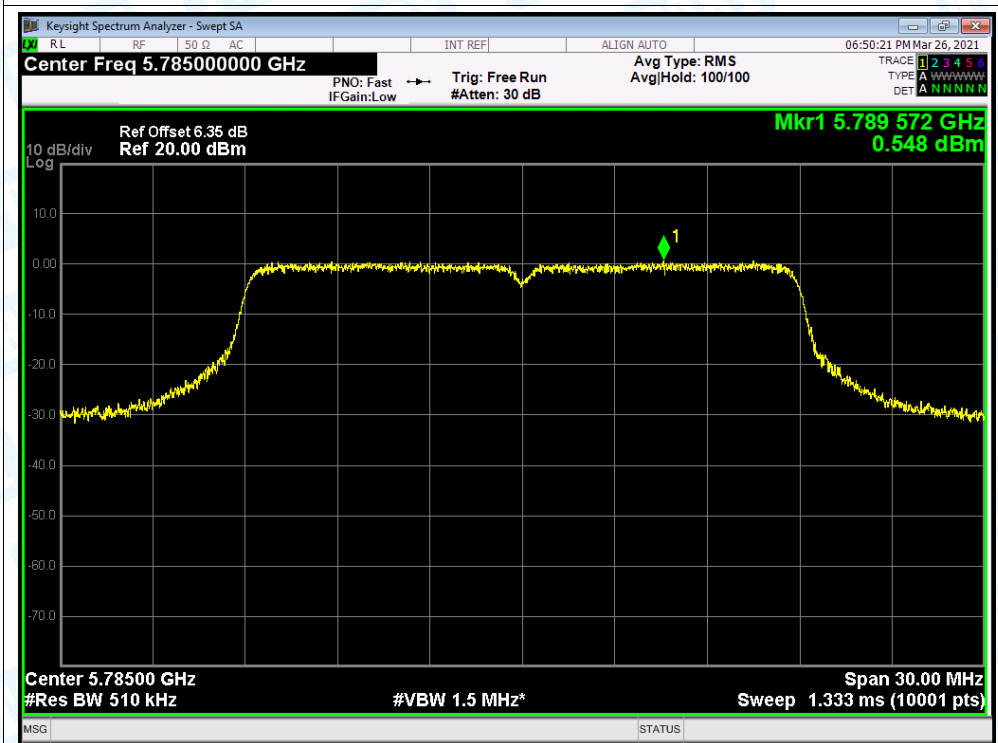
PSD NVNT a 5825MHz Ant1



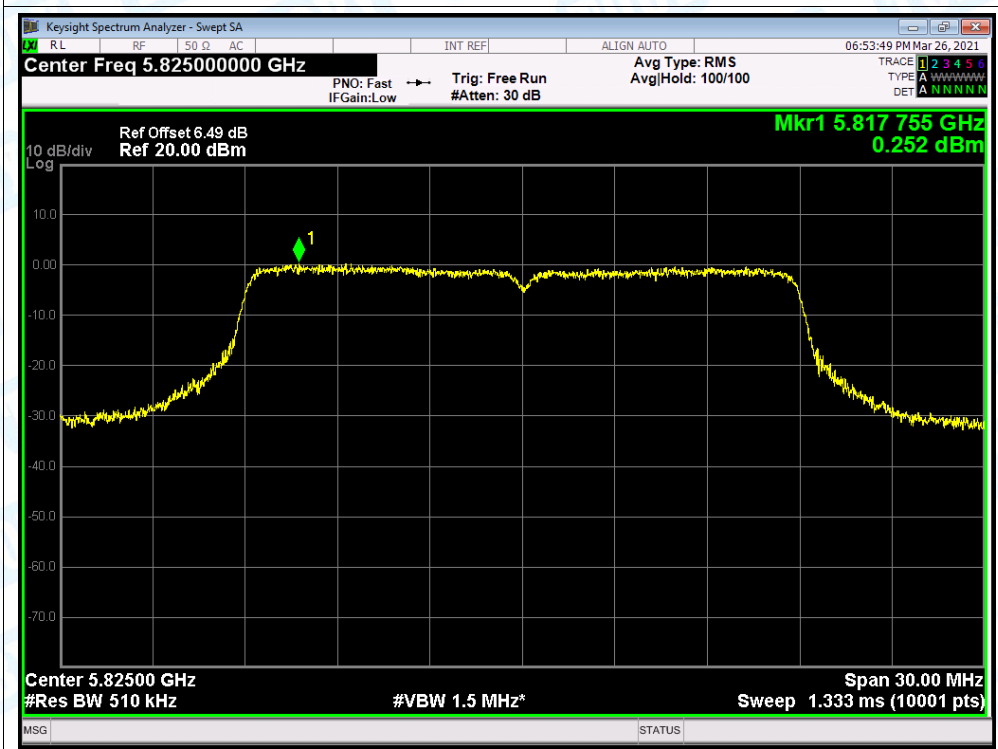
PSD NVNT n(HT20) 5745MHz Ant1



PSD NVNT n(HT20) 5785MHz Ant1



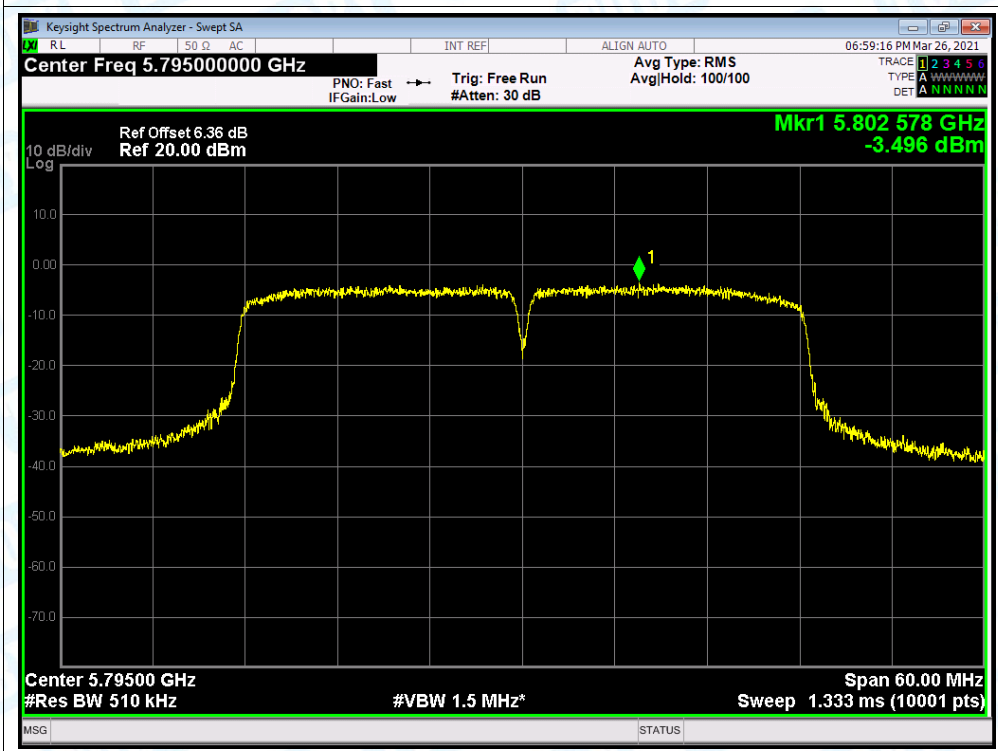
PSD NVNT n(HT20) 5825MHz Ant1



PSD NVNT n(HT40) 5755MHz Ant1



PSD NVNT n(HT40) 5795MHz Ant1



Attachment G----Frequency Stability Measurement Data

Only show the worst case 802.11 a Mode 5180MHz.

801.11a U-NII-1: 5180 MHz	
Voltage vs. Frequency Stability	
Voltage (V)	Measurement Frequency (MHz)
132	5180.0100
120	5179.9800
118	5180.0200
Limit Range (MHz)	5150-5250
Result	PASS
Temperature vs. Frequency Stability	
Temperature (°C)	Measurement Frequency (MHz)
0	5179.9300
10	5180.0200
20	5179.9800
30	5180.0500
40	5179.9600
50	5180.0600
Limit Range (MHz)	5150-5250
Result	PASS

Only show the worst case 802.11 a Mode 5745MHz.

801.11a U-NII-3: 5745 MHz	
Voltage vs. Frequency Stability	
Voltage (V)	Measurement Frequency (MHz)
132	5745.0300
120	5745.0000
118	5744.0200
Limit Range (MHz)	5725-5850
Result	PASS
Temperature vs. Frequency Stability	
Temperature (°C)	Measurement Frequency (MHz)
0	5745.0300
10	5745.0100
20	5745.0000
30	5745.0200
40	5745.0100
50	5745.0200
Limit Range (MHz)	5725-5850
Result	PASS

-----END OF REPORT-----