

FCC TEST REPORT

FCC ID:2A38US100

Report Number..... : ZKT-211130L6559-03

Date of Test..... Jan. 12, 2021 – Feb. 23, 2022

Date of issue : Mar. 03, 2022

Total number of pages : 108

Test Result : PASS

Testing Laboratory..... : **Shenzhen ZKT Technology Co., Ltd.**

Address : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

Applicant's name : INNODESIGN Co.,Ltd.

Address : A-401,402, U-Space1, 660, Daewangpangyo-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

Manufacturer's name : KMS Partner

Address : 1127, 205-27, Gasan digital 1-ro, Geumcheon-gu, Seoul, Republic of Korea

Test specification:

Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247
ANSI C63.10:2013
KDB 789033 D02 V01r02

Test procedure..... : /

Non-standard test method : N/A

Test Report Form No. : TRF-EL-110_V0

Test Report Form(s) Originator : ZKT Testing

Master TRF : Dated: 2020-01-06

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Product name..... : PROJECTOR

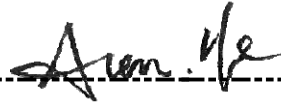
Trademark : INNODESIGN Co.,Ltd

Model/Type reference : S100, S90, S180, S60, S500, H150, H90, H180, FS180, FS280, FS500, INNOMOVIE

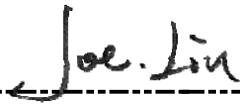
Ratings..... : DC 7.4V from battery / DC 15V from adapter

Testing procedure and testing location:**Testing Laboratory.....: Shenzhen ZKT Technology Co., Ltd.**Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Tested by (name + signature)



Reviewer (name + signature).....



Approved (name + signature)



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1. VERSION

ReportNo.	Version	Description	Approved
ZKT-211130L6559-03	Rev.01	Initial issue of report	Mar. 03, 2022

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Result	Remark
15.203/15.247 (c)	Antenna requirement	PASS	
15.207	AC Power Line Conducted Emission	PASS	
15.407 (a) (b)	Spurious Radiated Emissions and Band Edge	PASS	
15.407 (e)/15.403(i)	6 dB bandwidth,26dB Emission Bandwidth& 99% Occupied Bandwidth	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407 (a)(1)(2)(3)	Maximum conducted output power	PASS	
15.407 (g)	Frequency Stability	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 692225

Designation Number: CN1299

IC Registered No.: 27033

2.2 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 %.

No.	tem	ncertainty
1	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
2	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
3	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
4	Conducted Adjacent channel power	U=1.38dB
5	Conducted output power uncertainty Above 1G	U=1.576dB
6	Conducted output power uncertainty below 1G	U=1.28dB
7	humidity uncertainty	U=5.3%
8	Temperature uncertainty	U=0.59℃
9	Radiated disturbance(30MHz-1000MHz)	U=4.8dB
10	Radiated disturbance(1GHz-6GHz)	U=4.9dB
11	Radiated disturbance(1GHz-18GHz)	U=5.0dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name:	PROJECTOR		
Model No.:	S100		
Sample(s) Status:	Engineer sample		
	IEEE802.11 WLAN mode supported		802.11a/n/ac(20MHz bandwidth) 802.11n/ac (40MHz bandwidth) 802.11ac (80MHz bandwidth)
	Data rate		802.11a: 54Mbps 802.11n: MCS0-MCS7 802.11ac:MCS0-MCS9
	Modulation		OFDM
	Band 1	Frequency Range	IEEE802.11 a: 5180-5240MHz IEEE802.11 n (HT20): 5180-5240MHz IEEE802.11 n (HT40): 5190-5230MHz IEEE802.11 ac (VHT20): 5180-5240MHz IEEE802.11 ac (VHT40): 5190-5230MHz IEEE802.11 ac (VHT80): 5210MHz
		Channels	IEEE802.11 a/ac /n: 4 IEEE802.11 ac /n(40MHz):2 IEEE802.11 ac (80MHz):1
	BAND 4	Frequency Range	IEEE802.11 a: 5745-5825 MHz IEEE802.11 n (HT20):5745-5825 MHz IEEE802.11 n (HT40):5755-5795 MHz IEEE802.11 ac (VHT20):5745-5825 MHz IEEE802.11 ac (VHT40):5755-5795 MHz IEEE802.11 ac (VHT80):5775MHz
		Channels	IEEE802.11 a/ac /n: 5 IEEE802.11 ac /n(40MHz):2 IEEE802.11 ac (80MHz):1
Antenna Type:	FPC antenna		
Antenna gain:	ANT1: 3dBi; ANT2: 3dBi MIMO: 6.01dBi		
Power supply:	DC 7.4V from battery		
POWER ADAPTER:	MODEL NO.:FJ-SW126G1501500N INPUT:100-240V ~ 50/60Hz 0.6A Max OUTPUT: 15.0V  1.5A, 22.52w		

Band 1		Band 4	
CH.	Frequency (MHz)	CH.	Frequency (MHz)
36	5180	149	5745
40	5200	...	...
44	5220	157	5785
48	5240	...	...
		165	5825

802.11a/n/ac (20MHz) Frequency / Channel Operations

Band 1		Band 4	
CH.	Frequency (MHz)	CH.	Frequency (MHz)
38	5190	151	5755
46	5230	159	5795

802.11n / 802.11ac (40MHz BW) Frequency / Channel Operations

Band 1		Band 4	
CH.	Frequency (MHz)	CH.	Frequency (MHz)
42	5210	155	5775

802.11n / 802.11ac (80MHz BW) Frequency / Channel Operations

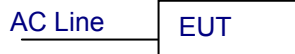
3.2 DESCRIPTION OF TEST MODES

Worst Case Configuration: transmitting both 2.4GHz mode and 5GHz mode

Description	5 GHz Emission
Antenna	MIMO
Channel	36
Operating Frequency (MHz)	802.11N
Data Rate (Mbps)	OFDM/13.5Mbps
Mode	Band I-N20

3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission



Radiated Emission



Conducted Spurious



3.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	adapter	/	INPUT:100-240V ~ 50/60Hz	MODEL NO.: FJ-SW126G150150 0N	Provide by client

			0.6A Max OUTPUT: 15.0V  1.5A, 22.52w		

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

3.5EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	KEYSIGHT	9020A	MY45109572	Sep. 21, 2021	Sep. 22, 2022
2	Spectrum Analyzer (1GHz-40GHz)	Agilent	E4446A	100363	Sep. 21, 2021	Sep. 22, 2022
3	Test Receiver (9kHz-7GHz)	R&S	ESC17	101169	Sep. 21, 2021	Sep. 22, 2022
4	Bilog Antenna (30MHz-1400MHz)	Schwarzbeck	VULB9168	00877	Sep. 21, 2021	Sep. 22, 2022
5	Horn Antenna (1GHz-18GHz)	SCHWARZBEC K	BBHA9120D	1541	Sep. 21, 2021	Sep. 22, 2022
6	Horn Antenna (18GHz-40GHz)	A.H. System	SAS-574	588	Sep. 21, 2021	Sep. 22, 2022
7	Amplifier (30-1000MHz)	EM Electronics	EM330 Amplifier	N/A	Sep. 21, 2021	Sep. 22, 2022
8	Amplifier (1GHz-40GHz)	QUANJUDA	DLE-161	097	Sep. 21, 2021	Sep. 22, 2022
9	Loop Antenna (9KHz-30MHz)	SCHWARZBEC K	FMZB1519B	014	Sep. 21, 2021	Sep. 22, 2022
10	RF cables1 (9kHz-30MHz)	N/A	9kHz-30MHz	N/A	Sep. 21, 2021	Sep. 22, 2022
11	RF cables2 (30MHz-1GHz)	N/A	30MHz-1GHz	N/A	Sep. 21, 2021	Sep. 22, 2022
12	RF cables3 (1GHz-40GHz)	N/A	1GHz-40GHz	N/A	Sep. 21, 2021	Sep. 22, 2022
13	CMW500 Test	R&S	CMW500	106504	Sep. 21, 2021	Sep. 22, 2022
14	ESG Signal Generator	Agilent	E4421B	GB40051203	Sep. 21, 2021	Sep. 22, 2022
15	Signal Generator	Agilent	N5182A	MY47420215	Sep. 21, 2021	Sep. 22, 2022
16	D.C. Power Supply	LongWei	TPR-6405D	\	\	\
17	Software	Frad	EZ-EMC	FA-03A2 RE	\	\

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	LISN	R&S	ENV216	101471	Sep. 21, 2021	Sep. 22, 2022
2	LISN	CYBERTEK	EM5040A	E185040014 9	Sep. 21, 2021	Sep. 22, 2022
3	Test Cable	N/A	C01	N/A	Sep. 21, 2021	Sep. 22, 2022
4	Test Cable	N/A	C02	N/A	Sep. 21, 2021	Sep. 22, 2022
5	EMI Test Receiver	R&S	ESRP3	101946	Sep. 21, 2021	Sep. 22, 2022
6	Absorbing Clamp	DZ	ZN23201	N/A	Sep. 21, 2021	Sep. 22, 2022

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

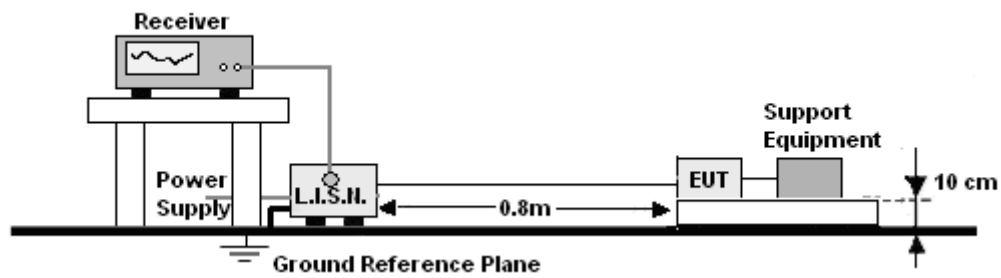
4.1.2 TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
2. Support equipment, if needed, was placed as per ANSI C63.10:2013
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.e.
8. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



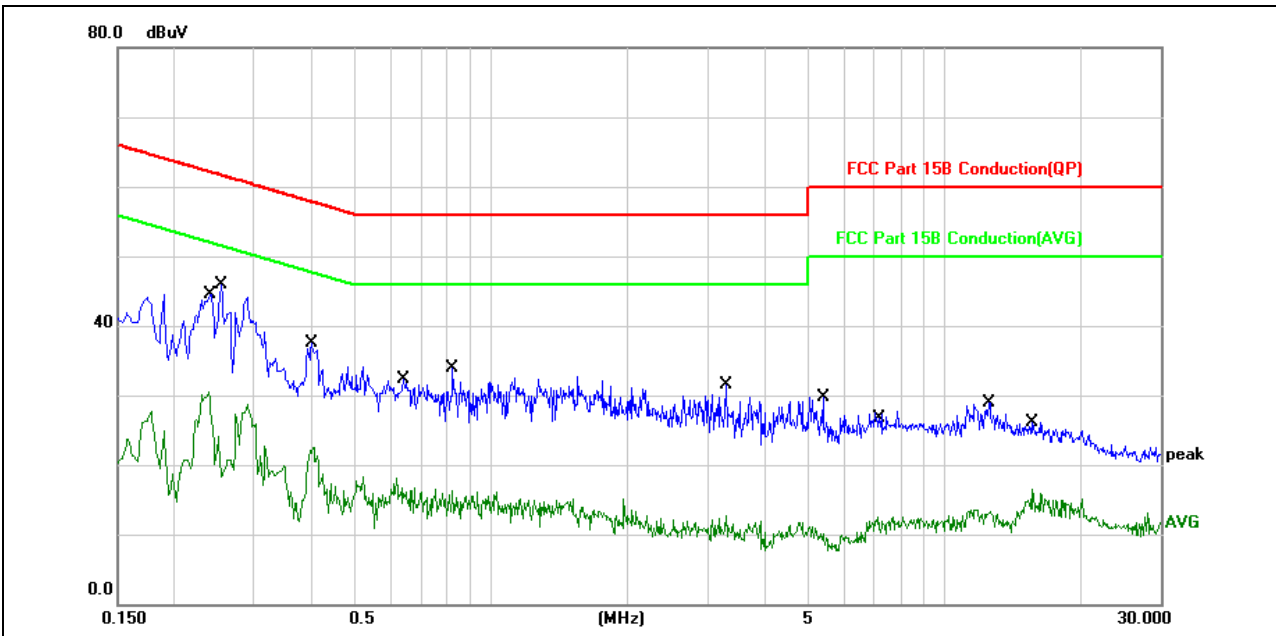
4.1.5 EUT OPERATING CONDITIONS

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

We pretest AC 120V, the worst voltage was AC 120V and the data recording in the report.

4.1.6 TEST RESULT

Temperature :	26°C	Relative Humidity:	54%
Pressure :	101kPa	Phase :	L
Test Voltage :	AC 120V/60Hz		

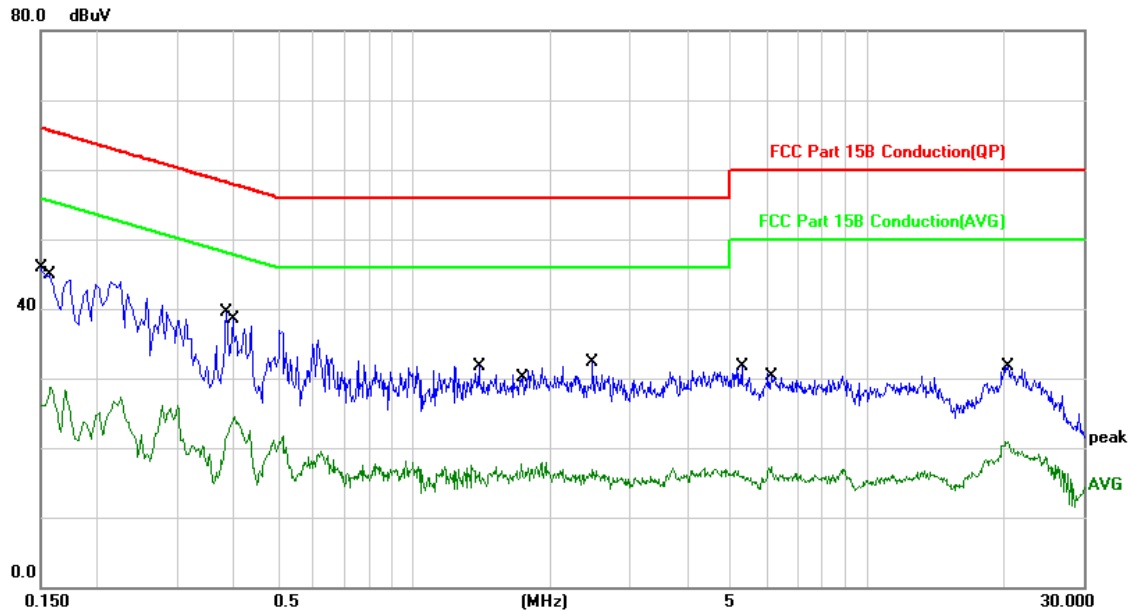


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2379	20.77	9.77	30.54	52.17	-21.63	AVG	
2	*	0.2540	36.06	9.77	45.83	61.62	-15.79	QP	
3		0.4020	27.56	9.87	37.43	57.81	-20.38	QP	
4		0.4060	12.65	9.87	22.52	47.73	-25.21	AVG	
5		0.6340	6.94	9.83	16.77	46.00	-29.23	AVG	
6		0.8256	24.09	9.80	33.89	56.00	-22.11	QP	
7		3.3020	21.78	9.69	31.47	56.00	-24.53	QP	
8		3.3020	3.03	9.69	12.72	46.00	-33.28	AVG	
9		5.4179	20.13	9.65	29.78	60.00	-30.22	QP	
10		7.1497	2.95	9.61	12.56	50.00	-37.44	AVG	
11		12.5219	19.24	9.76	29.00	60.00	-31.00	QP	
12		15.6097	6.90	9.64	16.54	50.00	-33.46	AVG	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

Temperature :	26°C	Relative Humidity:	54%
Pressure :	101kPa	Phase :	N
Test Voltage :	AC 120V/60Hz		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1499	36.20	9.75	45.95	66.00	-20.05	QP	
2		0.1580	19.04	9.75	28.79	55.56	-26.77	AVG	
3	*	0.3860	29.57	9.67	39.44	58.15	-18.71	QP	
4		0.4020	14.67	9.67	24.54	47.81	-23.27	AVG	
5		1.3895	21.99	9.70	31.69	56.00	-24.31	QP	
6		1.7298	8.02	9.67	17.69	46.00	-28.31	AVG	
7		2.4860	22.52	9.70	32.22	56.00	-23.78	QP	
8		2.4860	7.21	9.70	16.91	46.00	-29.09	AVG	
9		5.2819	22.11	9.65	31.76	60.00	-28.24	QP	
10		6.1257	7.64	9.64	17.28	50.00	-32.72	AVG	
11		20.4740	22.19	9.52	31.71	60.00	-28.29	QP	
12		20.4740	11.47	9.52	20.99	50.00	-29.01	AVG	

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Measurement Level = Reading level + Correct Factor

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

1. Radiated emissions from 9 kHz to 25 GHz were measured according to the methods defines in ANSI C63.10-2013. The EUT was placed above the ground plane, 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz. The interface cables and equipment position were varied within limits of reasonable applications to determine the positions producing maximum radiated emissions.
2. For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz.
3. For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.
4. For transmitters operating in the 5470-5600 MHz and 5650-5725 MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725 MHz band shall not exceed an EIRP of -27 dBm/MHz.
5. KDB789033v02r01G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	$2400/F(\text{KHz})$	300
0.490~1.705	$24000/F(\text{KHz})$	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

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

4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change from table 0.8 metre to 1.5 metre (Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

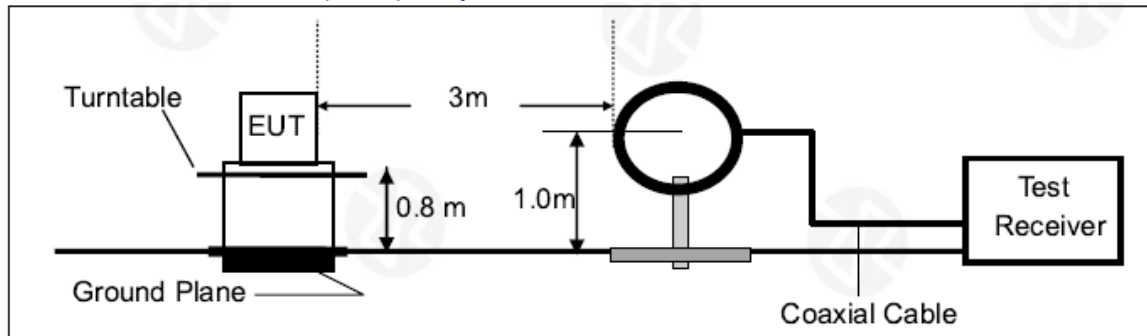
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

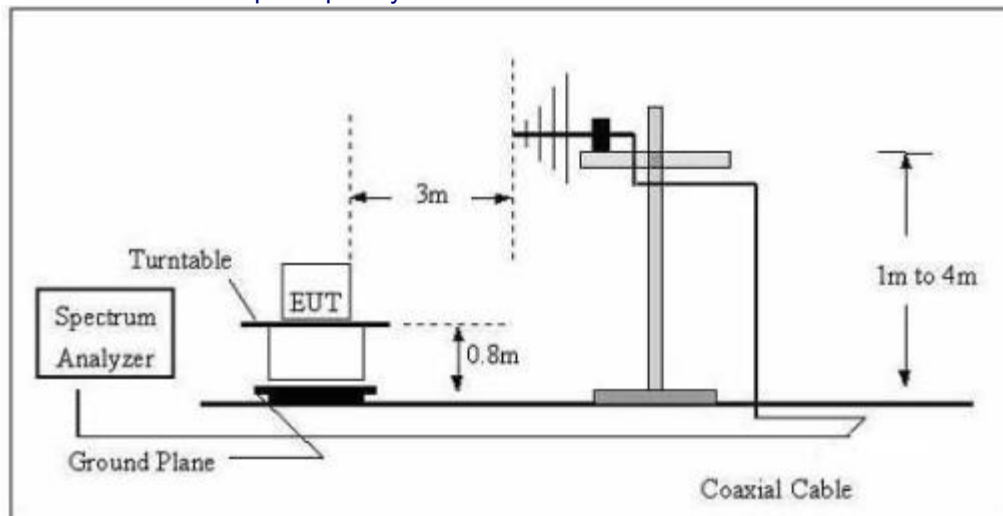
No deviation

4.2.4 TEST SETUP

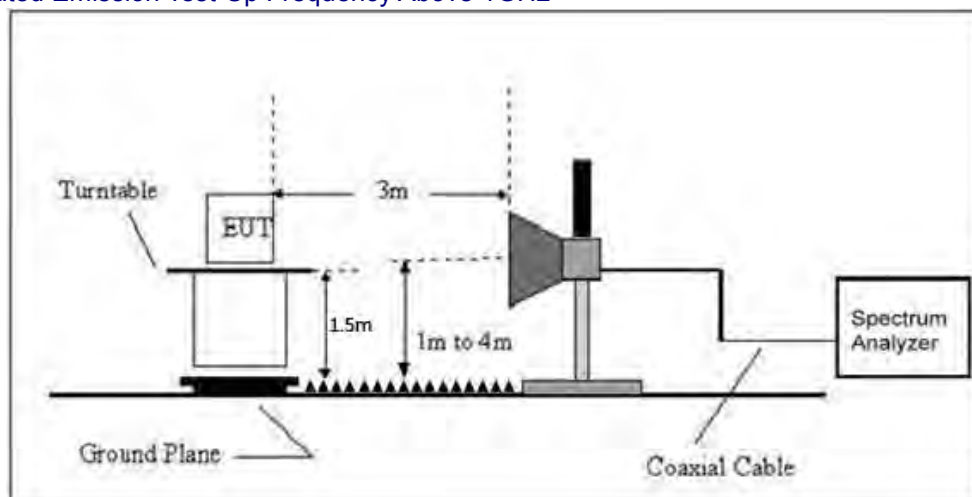
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

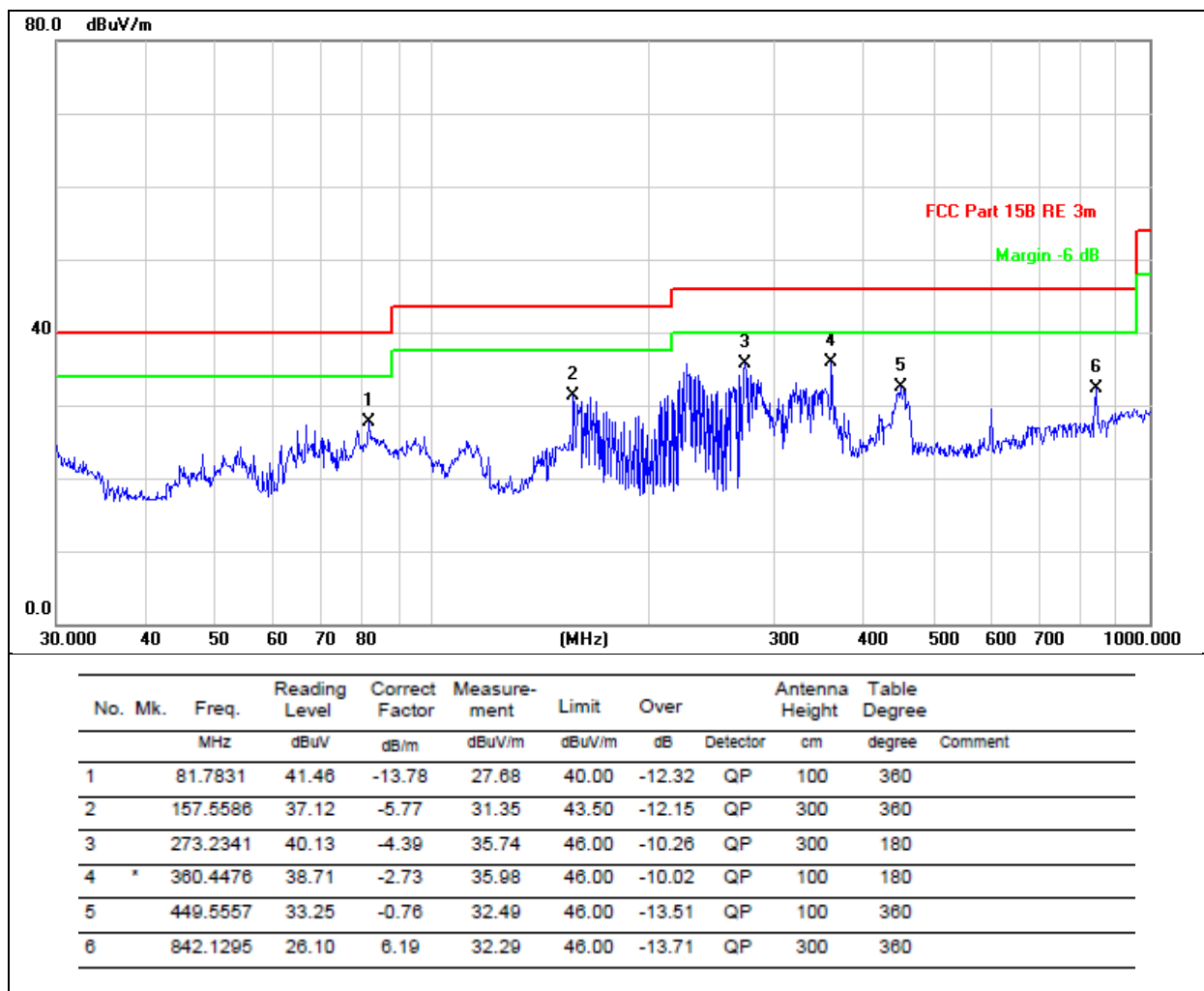
4.2.6 TEST RESULTS

Between 9KHz – 30MHz

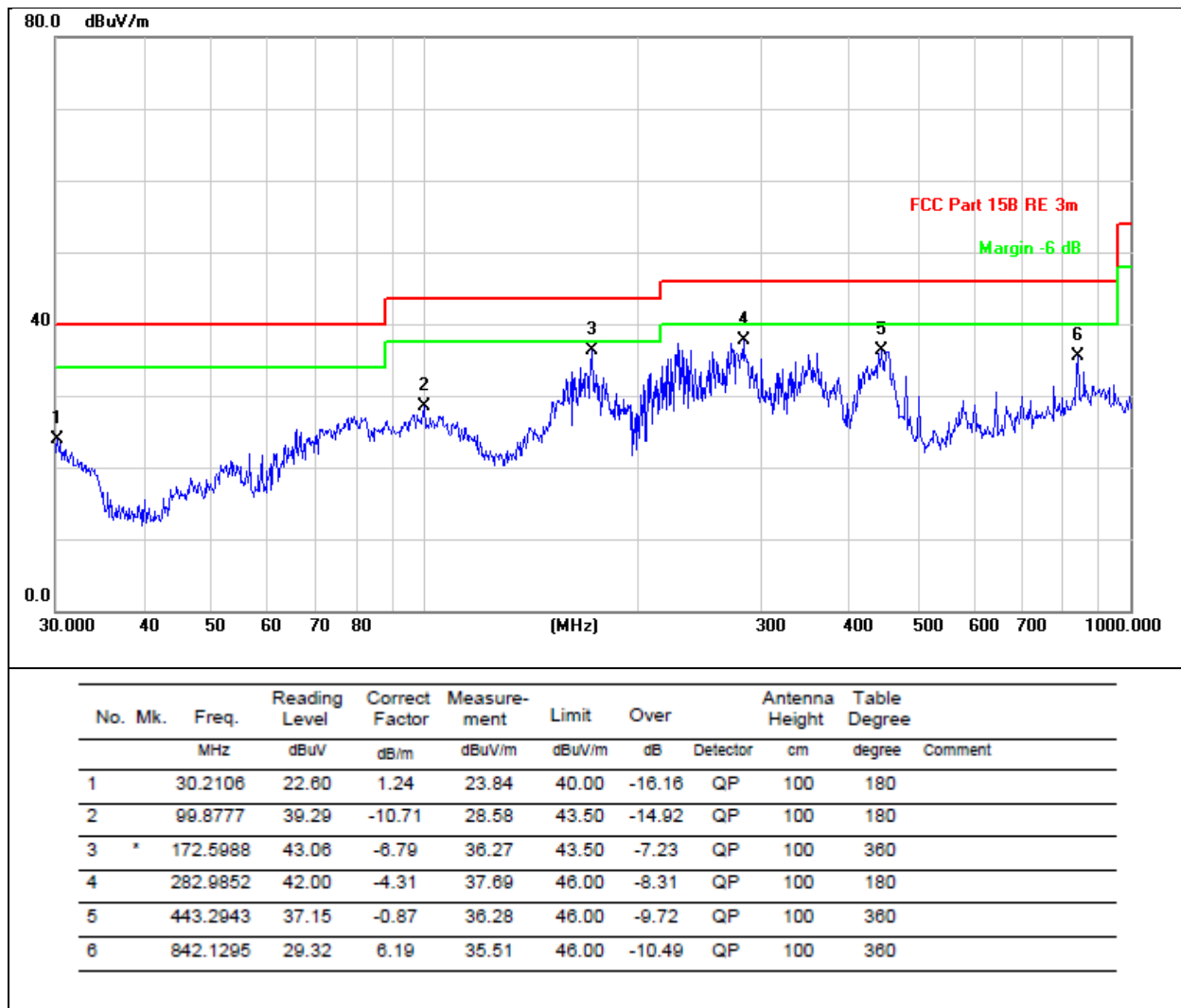
The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

Between 30MHz – 1GHz

Temperature:	26°C	Relative Humidity:	54%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Temperature:	26°C	Relative Humidity:	54%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		



Remarks:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The test data shows only the worst case MIMO 802.11ac-VHT20-CH36

1GHz~40GHz

ANT1-802.11a

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	57.09	30.55	5.77	24.66	56.97	74.00	-17.03	PK
V	10360	40.49	30.55	5.77	24.66	40.37	54.00	-13.63	AV
V	15540	52.22	30.33	6.32	24.55	52.76	74.00	-21.24	PK
V	15540	39.21	30.33	6.32	24.55	39.75	54.00	-14.25	AV
V	20720	50.99	30.85	7.45	24.69	52.28	74.00	-21.72	PK
V	20720	41.24	30.85	7.45	24.69	42.53	54.00	-11.47	AV
H	10360	55.97	30.55	5.77	24.66	55.85	74.00	-18.15	PK
H	10360	40.66	30.55	5.77	24.66	40.54	54.00	-13.46	AV
H	15540	52.77	30.33	6.32	24.55	53.31	74.00	-20.69	PK
H	15540	39.80	30.33	6.32	24.55	40.34	54.00	-13.66	AV
H	20720	51.74	30.85	7.45	24.69	53.03	74.00	-20.97	PK
H	20720	40.69	30.85	7.45	24.69	41.98	54.00	-12.02	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	55.86	30.55	5.77	24.66	55.74	74.00	-18.26	PK
V	10400	39.85	30.55	5.77	24.66	39.73	54.00	-14.27	AV
V	15600	52.41	30.33	6.32	24.55	52.95	74.00	-21.05	PK
V	15600	40.30	30.33	6.32	24.55	40.84	54.00	-13.16	AV
V	20800	48.78	30.85	7.45	24.69	50.07	74.00	-23.93	PK
V	20800	41.34	30.85	7.45	24.69	42.63	54.00	-11.37	AV
H	10400	57.57	30.55	5.77	24.66	57.45	74.00	-16.55	PK
H	10400	39.95	30.55	5.77	24.66	39.83	54.00	-14.17	AV
H	15600	51.93	30.33	6.32	24.55	52.47	74.00	-21.53	PK
H	15600	40.83	30.33	6.32	24.55	41.37	54.00	-12.63	AV
H	20800	49.37	30.85	7.45	24.69	50.66	74.00	-23.34	PK
H	20800	40.71	30.85	7.45	24.69	42.00	54.00	-12.00	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	57.02	30.55	5.77	24.66	56.90	74.00	-17.10	PK
V	10480	40.57	30.55	5.77	24.66	40.45	54.00	-13.55	AV
V	15720	52.61	30.33	6.32	24.55	53.15	74.00	-20.85	PK
V	15720	41.16	30.33	6.32	24.55	41.70	54.00	-12.30	AV
V	20960	49.06	30.85	7.45	24.69	50.35	74.00	-23.65	PK
V	20960	41.29	30.85	7.45	24.69	42.58	54.00	-11.42	AV
H	10480	56.39	30.55	5.77	24.66	56.27	74.00	-17.73	PK
H	10480	41.55	30.55	5.77	24.66	41.43	54.00	-12.57	AV
H	15720	53.39	30.33	6.32	24.55	53.93	74.00	-20.07	PK
H	15720	41.16	30.33	6.32	24.55	41.70	54.00	-12.30	AV
H	20960	51.63	30.85	7.45	24.69	52.92	74.00	-21.08	PK
H	20960	39.99	30.85	7.45	24.69	41.28	54.00	-12.72	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	56.36	30.55	5.77	24.66	56.24	74.00	-17.76	PK
V	11490	41.68	30.55	5.77	24.66	41.56	54.00	-12.44	AV
V	17235	53.45	30.33	6.32	24.55	53.99	74.00	-20.01	PK
V	17235	40.90	30.33	6.32	24.55	41.44	54.00	-12.56	AV
V	22980	50.66	30.85	7.45	24.69	51.95	74.00	-22.05	PK
V	22980	41.37	30.85	7.45	24.69	42.66	54.00	-11.34	AV
H	11490	55.88	30.55	5.77	24.66	55.76	74.00	-18.24	PK
H	11490	40.93	30.55	5.77	24.66	40.81	54.00	-13.19	AV
H	17235	53.16	30.33	6.32	24.55	53.70	74.00	-20.30	PK
H	17235	39.23	30.33	6.32	24.55	39.77	54.00	-14.23	AV
H	22980	50.04	30.85	7.45	24.69	51.33	74.00	-22.67	PK
H	22980	39.54	30.85	7.45	24.69	40.83	54.00	-13.17	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	55.21	30.55	5.77	24.66	55.09	74.00	-18.91	PK
V	11570	41.22	30.55	5.77	24.66	41.10	54.00	-12.90	AV
V	17355	52.36	30.33	6.32	24.55	52.90	74.00	-21.10	PK
V	17355	41.40	30.33	6.32	24.55	41.94	54.00	-12.06	AV
V	23140	49.06	30.85	7.45	24.69	50.35	74.00	-23.65	PK
V	23140	40.60	30.85	7.45	24.69	41.89	54.00	-12.11	AV
H	11570	57.36	30.55	5.77	24.66	57.24	74.00	-16.76	PK
H	11570	40.51	30.55	5.77	24.66	40.39	54.00	-13.61	AV
H	17355	52.61	30.33	6.32	24.55	53.15	74.00	-20.85	PK
H	17355	38.95	30.33	6.32	24.55	39.49	54.00	-14.51	AV
H	23140	49.22	30.85	7.45	24.69	50.51	74.00	-23.49	PK
H	23140	40.29	30.85	7.45	24.69	41.58	54.00	-12.42	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	54.99	30.55	5.77	24.66	54.87	74.00	-19.13	PK
V	11650	41.05	30.55	5.77	24.66	40.93	54.00	-13.07	AV
V	17475	52.31	30.33	6.32	24.55	52.85	74.00	-21.15	PK
V	17475	41.56	30.33	6.32	24.55	42.10	54.00	-11.90	AV
V	23300	51.33	30.85	7.45	24.69	52.62	74.00	-21.38	PK
V	23300	39.26	30.85	7.45	24.69	40.55	54.00	-13.45	AV
H	11650	55.39	30.55	5.77	24.66	55.27	74.00	-18.73	PK
H	11650	42.11	30.55	5.77	24.66	41.99	54.00	-12.01	AV
H	17475	51.85	30.33	6.32	24.55	52.39	74.00	-21.61	PK
H	17475	40.01	30.33	6.32	24.55	40.55	54.00	-13.45	AV
H	23300	50.35	30.85	7.45	24.69	51.64	74.00	-22.36	PK
H	23300	39.54	30.85	7.45	24.69	40.83	54.00	-13.17	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	54.79	30.55	5.77	24.66	54.67	74.00	-19.33	PK
V	10360	40.44	30.55	5.77	24.66	40.32	54.00	-13.68	AV
V	15540	52.79	30.33	6.32	24.55	53.33	74.00	-20.67	PK
V	15540	38.76	30.33	6.32	24.55	39.30	54.00	-14.70	AV
V	20720	50.98	30.85	7.45	24.69	52.27	74.00	-21.73	PK
V	20720	39.66	30.85	7.45	24.69	40.95	54.00	-13.05	AV
H	10360	56.90	30.55	5.77	24.66	56.78	74.00	-17.22	PK
H	10360	41.19	30.55	5.77	24.66	41.07	54.00	-12.93	AV
H	15540	53.64	30.33	6.32	24.55	54.18	74.00	-19.82	PK
H	15540	40.44	30.33	6.32	24.55	40.98	54.00	-13.02	AV
H	20720	50.26	30.85	7.45	24.69	51.55	74.00	-22.45	PK
H	20720	40.09	30.85	7.45	24.69	41.38	54.00	-12.62	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	55.20	30.55	5.77	24.66	55.08	74.00	-18.92	PK
V	10400	39.28	30.55	5.77	24.66	39.16	54.00	-14.84	AV
V	15600	51.83	30.33	6.32	24.55	52.37	74.00	-21.63	PK
V	15600	41.23	30.33	6.32	24.55	41.77	54.00	-12.23	AV
V	20800	49.88	30.85	7.45	24.69	51.17	74.00	-22.83	PK
V	20800	38.96	30.85	7.45	24.69	40.25	54.00	-13.75	AV
H	10400	54.82	30.55	5.77	24.66	54.70	74.00	-19.30	PK
H	10400	42.63	30.55	5.77	24.66	42.51	54.00	-11.49	AV
H	15600	52.73	30.33	6.32	24.55	53.27	74.00	-20.73	PK
H	15600	39.81	30.33	6.32	24.55	40.35	54.00	-13.65	AV
H	20800	49.65	30.85	7.45	24.69	50.94	74.00	-23.06	PK
H	20800	41.29	30.85	7.45	24.69	42.58	54.00	-11.42	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	55.19	30.55	5.77	24.66	55.07	74.00	-18.93	PK
V	10480	41.22	30.55	5.77	24.66	41.10	54.00	-12.90	AV
V	15720	51.96	30.33	6.32	24.55	52.50	74.00	-21.50	PK
V	15720	41.00	30.33	6.32	24.55	41.54	54.00	-12.46	AV
V	20960	51.61	30.85	7.45	24.69	52.90	74.00	-21.10	PK
V	20960	39.57	30.85	7.45	24.69	40.86	54.00	-13.14	AV
H	10480	55.07	30.55	5.77	24.66	54.95	74.00	-19.05	PK
H	10480	39.78	30.55	5.77	24.66	39.66	54.00	-14.34	AV
H	15720	52.05	30.33	6.32	24.55	52.59	74.00	-21.41	PK
H	15720	39.60	30.33	6.32	24.55	40.14	54.00	-13.86	AV
H	20960	49.18	30.85	7.45	24.69	50.47	74.00	-23.53	PK
H	20960	38.99	30.85	7.45	24.69	40.28	54.00	-13.72	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	54.87	30.55	5.77	24.66	54.75	74.00	-19.25	PK
V	11490	41.36	30.55	5.77	24.66	41.24	54.00	-12.76	AV
V	17235	53.73	30.33	6.32	24.55	54.27	74.00	-19.73	PK
V	17235	39.13	30.33	6.32	24.55	39.67	54.00	-14.33	AV
V	22980	50.65	30.85	7.45	24.69	51.94	74.00	-22.06	PK
V	22980	39.78	30.85	7.45	24.69	41.07	54.00	-12.93	AV
H	11490	56.83	30.55	5.77	24.66	56.71	74.00	-17.29	PK
H	11490	40.81	30.55	5.77	24.66	40.69	54.00	-13.31	AV
H	17235	52.79	30.33	6.32	24.55	53.33	74.00	-20.67	PK
H	17235	40.49	30.33	6.32	24.55	41.03	54.00	-12.97	AV
H	22980	50.43	30.85	7.45	24.69	51.72	74.00	-22.28	PK
H	22980	41.18	30.85	7.45	24.69	42.47	54.00	-11.53	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	55.21	30.55	5.77	24.66	55.09	74.00	-18.91	PK
V	11570	39.08	30.55	5.77	24.66	38.96	54.00	-15.04	AV
V	17355	52.59	30.33	6.32	24.55	53.13	74.00	-20.87	PK
V	17355	41.61	30.33	6.32	24.55	42.15	54.00	-11.85	AV
V	23140	49.85	30.85	7.45	24.69	51.14	74.00	-22.86	PK
V	23140	39.17	30.85	7.45	24.69	40.46	54.00	-13.54	AV
H	11570	55.44	30.55	5.77	24.66	55.32	74.00	-18.68	PK
H	11570	42.63	30.55	5.77	24.66	42.51	54.00	-11.49	AV
H	17355	53.46	30.33	6.32	24.55	54.00	74.00	-20.00	PK
H	17355	40.97	30.33	6.32	24.55	41.51	54.00	-12.49	AV
H	23140	51.48	30.85	7.45	24.69	52.77	74.00	-21.23	PK
H	23140	39.36	30.85	7.45	24.69	40.65	54.00	-13.35	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	57.27	30.55	5.77	24.66	57.15	74.00	-16.85	PK
V	11650	41.09	30.55	5.77	24.66	40.97	54.00	-13.03	AV
V	17475	52.57	30.33	6.32	24.55	53.11	74.00	-20.89	PK
V	17475	40.84	30.33	6.32	24.55	41.38	54.00	-12.62	AV
V	23300	50.23	30.85	7.45	24.69	51.52	74.00	-22.48	PK
V	23300	40.77	30.85	7.45	24.69	42.06	54.00	-11.94	AV
H	11650	57.60	30.55	5.77	24.66	57.48	74.00	-16.52	PK
H	11650	40.55	30.55	5.77	24.66	40.43	54.00	-13.57	AV
H	17475	53.22	30.33	6.32	24.55	53.76	74.00	-20.24	PK
H	17475	40.70	30.33	6.32	24.55	41.24	54.00	-12.76	AV
H	23300	49.30	30.85	7.45	24.69	50.59	74.00	-23.41	PK
H	23300	39.96	30.85	7.45	24.69	41.25	54.00	-12.75	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5190MHz									
V	10380	55.16	30.55	5.77	24.66	55.04	74.00	-18.96	PK
V	10380	40.31	30.55	5.77	24.66	40.19	54.00	-13.81	AV
V	15570	53.00	30.33	6.32	24.55	53.54	74.00	-20.46	PK
V	15570	41.60	30.33	6.32	24.55	42.14	54.00	-11.86	AV
V	20760	50.87	30.85	7.45	24.69	52.16	74.00	-21.84	PK
V	20760	41.09	30.85	7.45	24.69	42.38	54.00	-11.62	AV
H	10380	57.00	30.55	5.77	24.66	56.88	74.00	-17.12	PK
H	10380	40.65	30.55	5.77	24.66	40.53	54.00	-13.47	AV
H	15570	53.33	30.33	6.32	24.55	53.87	74.00	-20.13	PK
H	15570	39.81	30.33	6.32	24.55	40.35	54.00	-13.65	AV
H	20760	50.23	30.85	7.45	24.69	51.52	74.00	-22.48	PK
H	20760	38.76	30.85	7.45	24.69	40.05	54.00	-13.95	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	56.34	30.55	5.77	24.66	56.22	74.00	-17.78	PK
V	10460	39.70	30.55	5.77	24.66	39.58	54.00	-14.42	AV
V	15690	53.35	30.33	6.32	24.55	53.89	74.00	-20.11	PK
V	15690	40.33	30.33	6.32	24.55	40.87	54.00	-13.13	AV
V	20920	51.41	30.85	7.45	24.69	52.70	74.00	-21.30	PK
V	20920	40.91	30.85	7.45	24.69	42.20	54.00	-11.80	AV
H	10460	55.78	30.55	5.77	24.66	55.66	74.00	-18.34	PK
H	10460	40.74	30.55	5.77	24.66	40.62	54.00	-13.38	AV
H	15690	52.98	30.33	6.32	24.55	53.52	74.00	-20.48	PK
H	15690	38.86	30.33	6.32	24.55	39.40	54.00	-14.60	AV
H	20920	51.21	30.85	7.45	24.69	52.50	74.00	-21.50	PK
H	20920	40.32	30.85	7.45	24.69	41.61	54.00	-12.39	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	57.53	30.55	5.77	24.66	57.41	74.00	-16.59	PK
V	11510	39.60	30.55	5.77	24.66	39.48	54.00	-14.52	AV
V	17265	52.23	30.33	6.32	24.55	52.77	74.00	-21.23	PK
V	17265	39.27	30.33	6.32	24.55	39.81	54.00	-14.19	AV
V	23020	49.13	30.85	7.45	24.69	50.42	74.00	-23.58	PK
V	23020	41.64	30.85	7.45	24.69	42.93	54.00	-11.07	AV
H	11510	55.90	30.55	5.77	24.66	55.78	74.00	-18.22	PK
H	11510	40.56	30.55	5.77	24.66	40.44	54.00	-13.56	AV
H	17265	53.71	30.33	6.32	24.55	54.25	74.00	-19.75	PK
H	17265	40.25	30.33	6.32	24.55	40.79	54.00	-13.21	AV
H	23020	50.92	30.85	7.45	24.69	52.21	74.00	-21.79	PK
H	23020	39.88	30.85	7.45	24.69	41.17	54.00	-12.83	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	56.68	30.55	5.77	24.66	56.56	74.00	-17.44	PK
V	11590	39.13	30.55	5.77	24.66	39.01	54.00	-14.99	AV
V	17385	53.08	30.33	6.32	24.55	53.62	74.00	-20.38	PK
V	17385	40.05	30.33	6.32	24.55	40.59	54.00	-13.41	AV
V	23180	49.22	30.85	7.45	24.69	50.51	74.00	-23.49	PK
V	23180	39.46	30.85	7.45	24.69	40.75	54.00	-13.25	AV
H	11590	55.74	30.55	5.77	24.66	55.62	74.00	-18.38	PK
H	11590	40.24	30.55	5.77	24.66	40.12	54.00	-13.88	AV
H	17385	53.24	30.33	6.32	24.55	53.78	74.00	-20.22	PK
H	17385	39.32	30.33	6.32	24.55	39.86	54.00	-14.14	AV
H	23180	50.22	30.85	7.45	24.69	51.51	74.00	-22.49	PK
H	23180	41.58	30.85	7.45	24.69	42.87	54.00	-11.13	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	56.75	30.55	5.77	24.66	56.63	74.00	-17.37	PK
V	10360	38.92	30.55	5.77	24.66	38.80	54.00	-15.20	AV
V	15540	52.19	30.33	6.32	24.55	52.73	74.00	-21.27	PK
V	15540	40.93	30.33	6.32	24.55	41.47	54.00	-12.53	AV
V	20720	51.05	30.85	7.45	24.69	52.34	74.00	-21.66	PK
V	20720	39.09	30.85	7.45	24.69	40.38	54.00	-13.62	AV
H	10360	57.43	30.55	5.77	24.66	57.31	74.00	-16.69	PK
H	10360	41.43	30.55	5.77	24.66	41.31	54.00	-12.69	AV
H	15540	52.27	30.33	6.32	24.55	52.81	74.00	-21.19	PK
H	15540	39.73	30.33	6.32	24.55	40.27	54.00	-13.73	AV
H	20720	48.81	30.85	7.45	24.69	50.10	74.00	-23.90	PK
H	20720	40.72	30.85	7.45	24.69	42.01	54.00	-11.99	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	55.61	30.55	5.77	24.66	55.49	74.00	-18.51	PK
V	10400	41.05	30.55	5.77	24.66	40.93	54.00	-13.07	AV
V	15600	52.09	30.33	6.32	24.55	52.63	74.00	-21.37	PK
V	15600	40.07	30.33	6.32	24.55	40.61	54.00	-13.39	AV
V	20800	49.24	30.85	7.45	24.69	50.53	74.00	-23.47	PK
V	20800	41.07	30.85	7.45	24.69	42.36	54.00	-11.64	AV
H	10400	55.39	30.55	5.77	24.66	55.27	74.00	-18.73	PK
H	10400	41.32	30.55	5.77	24.66	41.20	54.00	-12.80	AV
H	15600	52.85	30.33	6.32	24.55	53.39	74.00	-20.61	PK
H	15600	41.75	30.33	6.32	24.55	42.29	54.00	-11.71	AV
H	20800	50.89	30.85	7.45	24.69	52.18	74.00	-21.82	PK
H	20800	39.24	30.85	7.45	24.69	40.53	54.00	-13.47	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	56.66	30.55	5.77	24.66	56.54	74.00	-17.46	PK
V	10480	40.28	30.55	5.77	24.66	40.16	54.00	-13.84	AV
V	15720	53.34	30.33	6.32	24.55	53.88	74.00	-20.12	PK
V	15720	39.65	30.33	6.32	24.55	40.19	54.00	-13.81	AV
V	20960	49.19	30.85	7.45	24.69	50.48	74.00	-23.52	PK
V	20960	41.09	30.85	7.45	24.69	42.38	54.00	-11.62	AV
H	10480	55.16	30.55	5.77	24.66	55.04	74.00	-18.96	PK
H	10480	41.88	30.55	5.77	24.66	41.76	54.00	-12.24	AV
H	15720	52.90	30.33	6.32	24.55	53.44	74.00	-20.56	PK
H	15720	41.24	30.33	6.32	24.55	41.78	54.00	-12.22	AV
H	20960	48.86	30.85	7.45	24.69	50.15	74.00	-23.85	PK
H	20960	40.34	30.85	7.45	24.69	41.63	54.00	-12.37	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	57.48	30.55	5.77	24.66	57.36	74.00	-16.64	PK
V	11490	40.93	30.55	5.77	24.66	40.81	54.00	-13.19	AV
V	17235	52.68	30.33	6.32	24.55	53.22	74.00	-20.78	PK
V	17235	40.10	30.33	6.32	24.55	40.64	54.00	-13.36	AV
V	22980	48.81	30.85	7.45	24.69	50.10	74.00	-23.90	PK
V	22980	40.66	30.85	7.45	24.69	41.95	54.00	-12.05	AV
H	11490	55.99	30.55	5.77	24.66	55.87	74.00	-18.13	PK
H	11490	42.50	30.55	5.77	24.66	42.38	54.00	-11.62	AV
H	17235	52.18	30.33	6.32	24.55	52.72	74.00	-21.28	PK
H	17235	38.81	30.33	6.32	24.55	39.35	54.00	-14.65	AV
H	22980	49.88	30.85	7.45	24.69	51.17	74.00	-22.83	PK
H	22980	39.16	30.85	7.45	24.69	40.45	54.00	-13.55	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	57.22	30.55	5.77	24.66	57.10	74.00	-16.90	PK
V	11570	40.54	30.55	5.77	24.66	40.42	54.00	-13.58	AV
V	17355	53.56	30.33	6.32	24.55	54.10	74.00	-19.90	PK
V	17355	41.64	30.33	6.32	24.55	42.18	54.00	-11.82	AV
V	23140	50.34	30.85	7.45	24.69	51.63	74.00	-22.37	PK
V	23140	39.60	30.85	7.45	24.69	40.89	54.00	-13.11	AV
H	11570	56.60	30.55	5.77	24.66	56.48	74.00	-17.52	PK
H	11570	40.28	30.55	5.77	24.66	40.16	54.00	-13.84	AV
H	17355	52.78	30.33	6.32	24.55	53.32	74.00	-20.68	PK
H	17355	38.91	30.33	6.32	24.55	39.45	54.00	-14.55	AV
H	23140	51.02	30.85	7.45	24.69	52.31	74.00	-21.69	PK
H	23140	39.53	30.85	7.45	24.69	40.82	54.00	-13.18	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	57.65	30.55	5.77	24.66	57.53	74.00	-16.47	PK
V	11590	39.76	30.55	5.77	24.66	39.64	54.00	-14.36	AV
V	17385	52.33	30.33	6.32	24.55	52.87	74.00	-21.13	PK
V	17385	40.26	30.33	6.32	24.55	40.80	54.00	-13.20	AV
V	23180	50.76	30.85	7.45	24.69	52.05	74.00	-21.95	PK
V	23180	41.12	30.85	7.45	24.69	42.41	54.00	-11.59	AV
H	11590	55.26	30.55	5.77	24.66	55.14	74.00	-18.86	PK
H	11590	42.09	30.55	5.77	24.66	41.97	54.00	-12.03	AV
H	17385	51.86	30.33	6.32	24.55	52.40	74.00	-21.60	PK
H	17385	39.96	30.33	6.32	24.55	40.50	54.00	-13.50	AV
H	23180	51.53	30.85	7.45	24.69	52.82	74.00	-21.18	PK
H	23180	40.21	30.85	7.45	24.69	41.50	54.00	-12.50	AV

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Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5190MHz									
V	10380	55.43	30.55	5.77	24.66	55.31	74.00	-18.69	PK
V	10380	38.82	30.55	5.77	24.66	38.70	54.00	-15.30	AV
V	15570	52.82	30.33	6.32	24.55	53.36	74.00	-20.64	PK
V	15570	41.43	30.33	6.32	24.55	41.97	54.00	-12.03	AV
V	20760	49.10	30.85	7.45	24.69	50.39	74.00	-23.61	PK
V	20760	39.62	30.85	7.45	24.69	40.91	54.00	-13.09	AV
H	10380	56.54	30.55	5.77	24.66	56.42	74.00	-17.58	PK
H	10380	40.75	30.55	5.77	24.66	40.63	54.00	-13.37	AV
H	15570	53.38	30.33	6.32	24.55	53.92	74.00	-20.08	PK
H	15570	40.08	30.33	6.32	24.55	40.62	54.00	-13.38	AV
H	20760	49.99	30.85	7.45	24.69	51.28	74.00	-22.72	PK
H	20760	41.48	30.85	7.45	24.69	42.77	54.00	-11.23	AV

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	56.82	30.55	5.77	24.66	56.70	74.00	-17.30	PK
V	10460	40.27	30.55	5.77	24.66	40.15	54.00	-13.85	AV
V	15690	53.15	30.33	6.32	24.55	53.69	74.00	-20.31	PK
V	15690	39.42	30.33	6.32	24.55	39.96	54.00	-14.04	AV
V	20920	51.55	30.85	7.45	24.69	52.84	74.00	-21.16	PK
V	20920	40.94	30.85	7.45	24.69	42.23	54.00	-11.77	AV
H	10460	57.41	30.55	5.77	24.66	57.29	74.00	-16.71	PK
H	10460	39.90	30.55	5.77	24.66	39.78	54.00	-14.22	AV
H	15690	52.36	30.33	6.32	24.55	52.90	74.00	-21.10	PK
H	15690	41.20	30.33	6.32	24.55	41.74	54.00	-12.26	AV
H	20920	51.50	30.85	7.45	24.69	52.79	74.00	-21.21	PK
H	20920	40.65	30.85	7.45	24.69	41.94	54.00	-12.06	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	55.34	30.55	5.77	24.66	55.22	74.00	-18.78	PK
V	11510	39.34	30.55	5.77	24.66	39.22	54.00	-14.78	AV
V	17265	51.97	30.33	6.32	24.55	52.51	74.00	-21.49	PK
V	17265	40.92	30.33	6.32	24.55	41.46	54.00	-12.54	AV
V	23020	48.99	30.85	7.45	24.69	50.28	74.00	-23.72	PK
V	23020	40.20	30.85	7.45	24.69	41.49	54.00	-12.51	AV
H	11510	57.03	30.55	5.77	24.66	56.91	74.00	-17.09	PK
H	11510	41.47	30.55	5.77	24.66	41.35	54.00	-12.65	AV
H	17265	53.63	30.33	6.32	24.55	54.17	74.00	-19.83	PK
H	17265	39.54	30.33	6.32	24.55	40.08	54.00	-13.92	AV
H	23020	49.91	30.85	7.45	24.69	51.20	74.00	-22.80	PK
H	23020	39.98	30.85	7.45	24.69	41.27	54.00	-12.73	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	56.48	30.55	5.77	24.66	56.36	74.00	-17.64	PK
V	11590	40.60	30.55	5.77	24.66	40.48	54.00	-13.52	AV
V	17385	53.27	30.33	6.32	24.55	53.81	74.00	-20.19	PK
V	17385	41.73	30.33	6.32	24.55	42.27	54.00	-11.73	AV
V	23180	50.02	30.85	7.45	24.69	51.31	74.00	-22.69	PK
V	23180	40.15	30.85	7.45	24.69	41.44	54.00	-12.56	AV
H	11590	55.77	30.55	5.77	24.66	55.65	74.00	-18.35	PK
H	11590	42.27	30.55	5.77	24.66	42.15	54.00	-11.85	AV
H	17385	51.78	30.33	6.32	24.55	52.32	74.00	-21.68	PK
H	17385	41.03	30.33	6.32	24.55	41.57	54.00	-12.43	AV
H	23180	51.01	30.85	7.45	24.69	52.30	74.00	-21.70	PK
H	23180	39.18	30.85	7.45	24.69	40.47	54.00	-13.53	AV

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Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
5210MHz									
V	10420	55.10	30.55	5.77	24.66	54.98	74.00	-19.02	PK
V	10420	40.49	30.55	5.77	24.66	40.37	54.00	-13.63	AV
V	15630	53.71	30.33	6.32	24.55	54.25	74.00	-19.75	PK
V	15630	41.05	30.33	6.32	24.55	41.59	54.00	-12.41	AV
V	20840	49.45	30.85	7.45	24.69	50.74	74.00	-23.26	PK
V	20840	39.66	30.85	7.45	24.69	40.95	54.00	-13.05	AV
H	10420	54.91	30.55	5.77	24.66	54.79	74.00	-19.21	PK
H	10420	39.92	30.55	5.77	24.66	39.80	54.00	-14.20	AV
H	15630	52.94	30.33	6.32	24.55	53.48	74.00	-20.52	PK
H	15630	39.17	30.33	6.32	24.55	39.71	54.00	-14.29	AV
H	20840	50.44	30.85	7.45	24.69	51.73	74.00	-22.27	PK
H	20840	41.21	30.85	7.45	24.69	42.50	54.00	-11.50	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5775MHz									
V	11550	57.45	30.55	5.77	24.66	57.33	74.00	-16.67	PK
V	11550	41.04	30.55	5.77	24.66	40.92	54.00	-13.08	AV
V	17325	51.78	30.33	6.32	24.55	52.32	74.00	-21.68	PK
V	17325	40.13	30.33	6.32	24.55	40.67	54.00	-13.33	AV
V	23100	50.42	30.85	7.45	24.69	51.71	74.00	-22.29	PK
V	23100	41.33	30.85	7.45	24.69	42.62	54.00	-11.38	AV
H	11550	55.31	30.55	5.77	24.66	55.19	74.00	-18.81	PK
H	11550	40.52	30.55	5.77	24.66	40.40	54.00	-13.60	AV
H	17325	53.07	30.33	6.32	24.55	53.61	74.00	-20.39	PK
H	17325	41.15	30.33	6.32	24.55	41.69	54.00	-12.31	AV
H	23100	49.48	30.85	7.45	24.69	50.77	74.00	-23.23	PK
H	23100	40.49	30.85	7.45	24.69	41.78	54.00	-12.22	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	56.79	30.55	5.77	24.66	56.67	74.00	-17.33	PK
V	10360	40.58	30.55	5.77	24.66	40.46	54.00	-13.54	AV
V	15540	52.07	30.33	6.32	24.55	52.61	74.00	-21.39	PK
V	15540	40.35	30.33	6.32	24.55	40.89	54.00	-13.11	AV
V	20720	51.37	30.85	7.45	24.69	52.66	74.00	-21.34	PK
V	20720	39.31	30.85	7.45	24.69	40.60	54.00	-13.40	AV
H	10360	55.71	30.55	5.77	24.66	55.59	74.00	-18.41	PK
H	10360	39.99	30.55	5.77	24.66	39.87	54.00	-14.13	AV
H	15540	53.46	30.33	6.32	24.55	54.00	74.00	-20.00	PK
H	15540	41.16	30.33	6.32	24.55	41.70	54.00	-12.30	AV
H	20720	51.07	30.85	7.45	24.69	52.36	74.00	-21.64	PK
H	20720	41.11	30.85	7.45	24.69	42.40	54.00	-11.60	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	55.19	30.55	5.77	24.66	55.07	74.00	-18.93	PK
V	10400	39.59	30.55	5.77	24.66	39.47	54.00	-14.53	AV
V	15600	53.65	30.33	6.32	24.55	54.19	74.00	-19.81	PK
V	15600	40.37	30.33	6.32	24.55	40.91	54.00	-13.09	AV
V	20800	49.82	30.85	7.45	24.69	51.11	74.00	-22.89	PK
V	20800	39.91	30.85	7.45	24.69	41.20	54.00	-12.80	AV
H	10400	55.43	30.55	5.77	24.66	55.31	74.00	-18.69	PK
H	10400	40.01	30.55	5.77	24.66	39.89	54.00	-14.11	AV
H	15600	52.41	30.33	6.32	24.55	52.95	74.00	-21.05	PK
H	15600	41.12	30.33	6.32	24.55	41.66	54.00	-12.34	AV
H	20800	48.95	30.85	7.45	24.69	50.24	74.00	-23.76	PK
H	20800	41.20	30.85	7.45	24.69	42.49	54.00	-11.51	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	55.02	30.55	5.77	24.66	54.90	74.00	-19.10	PK
V	10480	39.59	30.55	5.77	24.66	39.47	54.00	-14.53	AV
V	15720	52.31	30.33	6.32	24.55	52.85	74.00	-21.15	PK
V	15720	40.63	30.33	6.32	24.55	41.17	54.00	-12.83	AV
V	20960	49.40	30.85	7.45	24.69	50.69	74.00	-23.31	PK
V	20960	38.84	30.85	7.45	24.69	40.13	54.00	-13.87	AV
H	10480	56.04	30.55	5.77	24.66	55.92	74.00	-18.08	PK
H	10480	41.36	30.55	5.77	24.66	41.24	54.00	-12.76	AV
H	15720	52.78	30.33	6.32	24.55	53.32	74.00	-20.68	PK
H	15720	41.07	30.33	6.32	24.55	41.61	54.00	-12.39	AV
H	20960	50.75	30.85	7.45	24.69	52.04	74.00	-21.96	PK
H	20960	40.11	30.85	7.45	24.69	41.40	54.00	-12.60	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	55.96	30.55	5.77	24.66	55.84	74.00	-18.16	PK
V	11490	39.52	30.55	5.77	24.66	39.40	54.00	-14.60	AV
V	17235	53.60	30.33	6.32	24.55	54.14	74.00	-19.86	PK
V	17235	41.29	30.33	6.32	24.55	41.83	54.00	-12.17	AV
V	22980	49.57	30.85	7.45	24.69	50.86	74.00	-23.14	PK
V	22980	39.14	30.85	7.45	24.69	40.43	54.00	-13.57	AV
H	11490	55.20	30.55	5.77	24.66	55.08	74.00	-18.92	PK
H	11490	42.21	30.55	5.77	24.66	42.09	54.00	-11.91	AV
H	17235	52.62	30.33	6.32	24.55	53.16	74.00	-20.84	PK
H	17235	41.68	30.33	6.32	24.55	42.22	54.00	-11.78	AV
H	22980	51.72	30.85	7.45	24.69	53.01	74.00	-20.99	PK
H	22980	41.60	30.85	7.45	24.69	42.89	54.00	-11.11	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	57.66	30.55	5.77	24.66	57.54	74.00	-16.46	PK
V	11570	40.18	30.55	5.77	24.66	40.06	54.00	-13.94	AV
V	17355	53.41	30.33	6.32	24.55	53.95	74.00	-20.05	PK
V	17355	40.92	30.33	6.32	24.55	41.46	54.00	-12.54	AV
V	23140	50.38	30.85	7.45	24.69	51.67	74.00	-22.33	PK
V	23140	41.50	30.85	7.45	24.69	42.79	54.00	-11.21	AV
H	11570	55.72	30.55	5.77	24.66	55.60	74.00	-18.40	PK
H	11570	40.27	30.55	5.77	24.66	40.15	54.00	-13.85	AV
H	17355	52.19	30.33	6.32	24.55	52.73	74.00	-21.27	PK
H	17355	41.01	30.33	6.32	24.55	41.55	54.00	-12.45	AV
H	23140	49.29	30.85	7.45	24.69	50.58	74.00	-23.42	PK
H	23140	39.30	30.85	7.45	24.69	40.59	54.00	-13.41	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	55.66	30.55	5.77	24.66	55.54	74.00	-18.46	PK
V	11650	40.78	30.55	5.77	24.66	40.66	54.00	-13.34	AV
V	17475	52.02	30.33	6.32	24.55	52.56	74.00	-21.44	PK
V	17475	41.44	30.33	6.32	24.55	41.98	54.00	-12.02	AV
V	23300	50.24	30.85	7.45	24.69	51.53	74.00	-22.47	PK
V	23300	39.31	30.85	7.45	24.69	40.60	54.00	-13.40	AV
H	11650	54.90	30.55	5.77	24.66	54.78	74.00	-19.22	PK
H	11650	41.15	30.55	5.77	24.66	41.03	54.00	-12.97	AV
H	17475	52.77	30.33	6.32	24.55	53.31	74.00	-20.69	PK
H	17475	39.26	30.33	6.32	24.55	39.80	54.00	-14.20	AV
H	23300	51.06	30.85	7.45	24.69	52.35	74.00	-21.65	PK
H	23300	40.37	30.85	7.45	24.69	41.66	54.00	-12.34	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	56.50	30.55	5.77	24.66	56.38	74.00	-17.62	PK
V	10360	39.49	30.55	5.77	24.66	39.37	54.00	-14.63	AV
V	15540	52.51	30.33	6.32	24.55	53.05	74.00	-20.95	PK
V	15540	40.36	30.33	6.32	24.55	40.90	54.00	-13.10	AV
V	20720	51.61	30.85	7.45	24.69	52.90	74.00	-21.10	PK
V	20720	39.84	30.85	7.45	24.69	41.13	54.00	-12.87	AV
H	10360	56.45	30.55	5.77	24.66	56.33	74.00	-17.67	PK
H	10360	40.55	30.55	5.77	24.66	40.43	54.00	-13.57	AV
H	15540	53.40	30.33	6.32	24.55	53.94	74.00	-20.06	PK
H	15540	40.60	30.33	6.32	24.55	41.14	54.00	-12.86	AV
H	20720	51.27	30.85	7.45	24.69	52.56	74.00	-21.44	PK
H	20720	39.77	30.85	7.45	24.69	41.06	54.00	-12.94	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	54.83	30.55	5.77	24.66	54.71	74.00	-19.29	PK
V	10400	39.82	30.55	5.77	24.66	39.70	54.00	-14.30	AV
V	15600	53.36	30.33	6.32	24.55	53.90	74.00	-20.10	PK
V	15600	40.42	30.33	6.32	24.55	40.96	54.00	-13.04	AV
V	20800	51.32	30.85	7.45	24.69	52.61	74.00	-21.39	PK
V	20800	41.10	30.85	7.45	24.69	42.39	54.00	-11.61	AV
H	10400	55.27	30.55	5.77	24.66	55.15	74.00	-18.85	PK
H	10400	41.91	30.55	5.77	24.66	41.79	54.00	-12.21	AV
H	15600	52.69	30.33	6.32	24.55	53.23	74.00	-20.77	PK
H	15600	40.31	30.33	6.32	24.55	40.85	54.00	-13.15	AV
H	20800	51.07	30.85	7.45	24.69	52.36	74.00	-21.64	PK
H	20800	40.67	30.85	7.45	24.69	41.96	54.00	-12.04	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	57.69	30.55	5.77	24.66	57.57	74.00	-16.43	PK
V	10480	39.00	30.55	5.77	24.66	38.88	54.00	-15.12	AV
V	15720	53.36	30.33	6.32	24.55	53.90	74.00	-20.10	PK
V	15720	39.74	30.33	6.32	24.55	40.28	54.00	-13.72	AV
V	20960	49.60	30.85	7.45	24.69	50.89	74.00	-23.11	PK
V	20960	40.99	30.85	7.45	24.69	42.28	54.00	-11.72	AV
H	10480	56.70	30.55	5.77	24.66	56.58	74.00	-17.42	PK
H	10480	42.11	30.55	5.77	24.66	41.99	54.00	-12.01	AV
H	15720	52.74	30.33	6.32	24.55	53.28	74.00	-20.72	PK
H	15720	39.28	30.33	6.32	24.55	39.82	54.00	-14.18	AV
H	20960	49.27	30.85	7.45	24.69	50.56	74.00	-23.44	PK
H	20960	39.40	30.85	7.45	24.69	40.69	54.00	-13.31	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	55.26	30.55	5.77	24.66	55.14	74.00	-18.86	PK
V	11490	40.55	30.55	5.77	24.66	40.43	54.00	-13.57	AV
V	17235	52.59	30.33	6.32	24.55	53.13	74.00	-20.87	PK
V	17235	38.92	30.33	6.32	24.55	39.46	54.00	-14.54	AV
V	22980	50.49	30.85	7.45	24.69	51.78	74.00	-22.22	PK
V	22980	41.29	30.85	7.45	24.69	42.58	54.00	-11.42	AV
H	11490	56.26	30.55	5.77	24.66	56.14	74.00	-17.86	PK
H	11490	40.94	30.55	5.77	24.66	40.82	54.00	-13.18	AV
H	17235	51.86	30.33	6.32	24.55	52.40	74.00	-21.60	PK
H	17235	40.75	30.33	6.32	24.55	41.29	54.00	-12.71	AV
H	22980	51.66	30.85	7.45	24.69	52.95	74.00	-21.05	PK
H	22980	40.05	30.85	7.45	24.69	41.34	54.00	-12.66	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	54.79	30.55	5.77	24.66	54.67	74.00	-19.33	PK
V	11570	40.60	30.55	5.77	24.66	40.48	54.00	-13.52	AV
V	17355	53.16	30.33	6.32	24.55	53.70	74.00	-20.30	PK
V	17355	41.06	30.33	6.32	24.55	41.60	54.00	-12.40	AV
V	23140	50.12	30.85	7.45	24.69	51.41	74.00	-22.59	PK
V	23140	41.48	30.85	7.45	24.69	42.77	54.00	-11.23	AV
H	11570	56.57	30.55	5.77	24.66	56.45	74.00	-17.55	PK
H	11570	42.29	30.55	5.77	24.66	42.17	54.00	-11.83	AV
H	17355	51.94	30.33	6.32	24.55	52.48	74.00	-21.52	PK
H	17355	40.70	30.33	6.32	24.55	41.24	54.00	-12.76	AV
H	23140	50.91	30.85	7.45	24.69	52.20	74.00	-21.80	PK
H	23140	39.34	30.85	7.45	24.69	40.63	54.00	-13.37	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	54.98	30.55	5.77	24.66	54.86	74.00	-19.14	PK
V	11650	38.82	30.55	5.77	24.66	38.70	54.00	-15.30	AV
V	17475	53.26	30.33	6.32	24.55	53.80	74.00	-20.20	PK
V	17475	39.92	30.33	6.32	24.55	40.46	54.00	-13.54	AV
V	23300	50.63	30.85	7.45	24.69	51.92	74.00	-22.08	PK
V	23300	38.85	30.85	7.45	24.69	40.14	54.00	-13.86	AV
H	11650	55.72	30.55	5.77	24.66	55.60	74.00	-18.40	PK
H	11650	40.43	30.55	5.77	24.66	40.31	54.00	-13.69	AV
H	17475	52.30	30.33	6.32	24.55	52.84	74.00	-21.16	PK
H	17475	40.71	30.33	6.32	24.55	41.25	54.00	-12.75	AV
H	23300	49.00	30.85	7.45	24.69	50.29	74.00	-23.71	PK
H	23300	40.40	30.85	7.45	24.69	41.69	54.00	-12.31	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5190MHz									
V	10380	55.71	30.55	5.77	24.66	55.59	74.00	-18.41	PK
V	10380	40.44	30.55	5.77	24.66	40.32	54.00	-13.68	AV
V	15570	52.79	30.33	6.32	24.55	53.33	74.00	-20.67	PK
V	15570	38.87	30.33	6.32	24.55	39.41	54.00	-14.59	AV
V	20760	50.61	30.85	7.45	24.69	51.90	74.00	-22.10	PK
V	20760	41.70	30.85	7.45	24.69	42.99	54.00	-11.01	AV
H	10380	56.49	30.55	5.77	24.66	56.37	74.00	-17.63	PK
H	10380	40.96	30.55	5.77	24.66	40.84	54.00	-13.16	AV
H	15570	52.49	30.33	6.32	24.55	53.03	74.00	-20.97	PK
H	15570	40.87	30.33	6.32	24.55	41.41	54.00	-12.59	AV
H	20760	51.54	30.85	7.45	24.69	52.83	74.00	-21.17	PK
H	20760	41.72	30.85	7.45	24.69	43.01	54.00	-10.99	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	57.46	30.55	5.77	24.66	57.34	74.00	-16.66	PK
V	10460	40.46	30.55	5.77	24.66	40.34	54.00	-13.66	AV
V	15690	52.87	30.33	6.32	24.55	53.41	74.00	-20.59	PK
V	15690	38.91	30.33	6.32	24.55	39.45	54.00	-14.55	AV
V	20920	48.83	30.85	7.45	24.69	50.12	74.00	-23.88	PK
V	20920	41.54	30.85	7.45	24.69	42.83	54.00	-11.17	AV
H	10460	54.78	30.55	5.77	24.66	54.66	74.00	-19.34	PK
H	10460	42.45	30.55	5.77	24.66	42.33	54.00	-11.67	AV
H	15690	52.09	30.33	6.32	24.55	52.63	74.00	-21.37	PK
H	15690	38.85	30.33	6.32	24.55	39.39	54.00	-14.61	AV
H	20920	49.91	30.85	7.45	24.69	51.20	74.00	-22.80	PK
H	20920	40.14	30.85	7.45	24.69	41.43	54.00	-12.57	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	54.94	30.55	5.77	24.66	54.82	74.00	-19.18	PK
V	11510	41.53	30.55	5.77	24.66	41.41	54.00	-12.59	AV
V	17265	52.36	30.33	6.32	24.55	52.90	74.00	-21.10	PK
V	17265	41.54	30.33	6.32	24.55	42.08	54.00	-11.92	AV
V	23020	48.95	30.85	7.45	24.69	50.24	74.00	-23.76	PK
V	23020	38.92	30.85	7.45	24.69	40.21	54.00	-13.79	AV
H	11510	55.50	30.55	5.77	24.66	55.38	74.00	-18.62	PK
H	11510	40.77	30.55	5.77	24.66	40.65	54.00	-13.35	AV
H	17265	52.35	30.33	6.32	24.55	52.89	74.00	-21.11	PK
H	17265	39.99	30.33	6.32	24.55	40.53	54.00	-13.47	AV
H	23020	49.46	30.85	7.45	24.69	50.75	74.00	-23.25	PK
H	23020	40.11	30.85	7.45	24.69	41.40	54.00	-12.60	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	56.89	30.55	5.77	24.66	56.77	74.00	-17.23	PK
V	11590	40.88	30.55	5.77	24.66	40.76	54.00	-13.24	AV
V	17385	53.58	30.33	6.32	24.55	54.12	74.00	-19.88	PK
V	17385	39.60	30.33	6.32	24.55	40.14	54.00	-13.86	AV
V	23180	49.45	30.85	7.45	24.69	50.74	74.00	-23.26	PK
V	23180	39.76	30.85	7.45	24.69	41.05	54.00	-12.95	AV
H	11590	54.80	30.55	5.77	24.66	54.68	74.00	-19.32	PK
H	11590	42.22	30.55	5.77	24.66	42.10	54.00	-11.90	AV
H	17385	52.62	30.33	6.32	24.55	53.16	74.00	-20.84	PK
H	17385	41.68	30.33	6.32	24.55	42.22	54.00	-11.78	AV
H	23180	49.72	30.85	7.45	24.69	51.01	74.00	-22.99	PK
H	23180	39.08	30.85	7.45	24.69	40.37	54.00	-13.63	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

ANT2--802.11ac20

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	56.94	30.55	5.77	24.66	56.82	74.00	-17.18	PK
V	10360	38.89	30.55	5.77	24.66	38.77	54.00	-15.23	AV
V	15540	52.26	30.33	6.32	24.55	52.80	74.00	-21.20	PK
V	15540	40.98	30.33	6.32	24.55	41.52	54.00	-12.48	AV
V	20720	49.66	30.85	7.45	24.69	50.95	74.00	-23.05	PK
V	20720	40.25	30.85	7.45	24.69	41.54	54.00	-12.46	AV
H	10360	56.58	30.55	5.77	24.66	56.46	74.00	-17.54	PK
H	10360	39.86	30.55	5.77	24.66	39.74	54.00	-14.26	AV
H	15540	51.96	30.33	6.32	24.55	52.50	74.00	-21.50	PK
H	15540	41.04	30.33	6.32	24.55	41.58	54.00	-12.42	AV
H	20720	50.40	30.85	7.45	24.69	51.69	74.00	-22.31	PK
H	20720	40.58	30.85	7.45	24.69	41.87	54.00	-12.13	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	55.12	30.55	5.77	24.66	55.00	74.00	-19.00	PK
V	10400	40.19	30.55	5.77	24.66	40.07	54.00	-13.93	AV
V	15600	51.92	30.33	6.32	24.55	52.46	74.00	-21.54	PK
V	15600	38.87	30.33	6.32	24.55	39.41	54.00	-14.59	AV
V	20800	50.89	30.85	7.45	24.69	52.18	74.00	-21.82	PK
V	20800	39.98	30.85	7.45	24.69	41.27	54.00	-12.73	AV
H	10400	56.69	30.55	5.77	24.66	56.57	74.00	-17.43	PK
H	10400	40.45	30.55	5.77	24.66	40.33	54.00	-13.67	AV
H	15600	52.36	30.33	6.32	24.55	52.90	74.00	-21.10	PK
H	15600	40.04	30.33	6.32	24.55	40.58	54.00	-13.42	AV
H	20800	51.04	30.85	7.45	24.69	52.33	74.00	-21.67	PK
H	20800	41.75	30.85	7.45	24.69	43.04	54.00	-10.96	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	57.04	30.55	5.77	24.66	56.92	74.00	-17.08	PK
V	10480	39.49	30.55	5.77	24.66	39.37	54.00	-14.63	AV
V	15720	53.51	30.33	6.32	24.55	54.05	74.00	-19.95	PK
V	15720	40.01	30.33	6.32	24.55	40.55	54.00	-13.45	AV
V	20960	48.86	30.85	7.45	24.69	50.15	74.00	-23.85	PK
V	20960	40.13	30.85	7.45	24.69	41.42	54.00	-12.58	AV
H	10480	55.55	30.55	5.77	24.66	55.43	74.00	-18.57	PK
H	10480	41.74	30.55	5.77	24.66	41.62	54.00	-12.38	AV
H	15720	53.67	30.33	6.32	24.55	54.21	74.00	-19.79	PK
H	15720	41.09	30.33	6.32	24.55	41.63	54.00	-12.37	AV
H	20960	50.11	30.85	7.45	24.69	51.40	74.00	-22.60	PK
H	20960	40.75	30.85	7.45	24.69	42.04	54.00	-11.96	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	56.67	30.55	5.77	24.66	56.55	74.00	-17.45	PK
V	11490	39.21	30.55	5.77	24.66	39.09	54.00	-14.91	AV
V	17235	53.03	30.33	6.32	24.55	53.57	74.00	-20.43	PK
V	17235	39.11	30.33	6.32	24.55	39.65	54.00	-14.35	AV
V	22980	50.03	30.85	7.45	24.69	51.32	74.00	-22.68	PK
V	22980	41.50	30.85	7.45	24.69	42.79	54.00	-11.21	AV
H	11490	56.03	30.55	5.77	24.66	55.91	74.00	-18.09	PK
H	11490	41.97	30.55	5.77	24.66	41.85	54.00	-12.15	AV
H	17235	52.06	30.33	6.32	24.55	52.60	74.00	-21.40	PK
H	17235	38.97	30.33	6.32	24.55	39.51	54.00	-14.49	AV
H	22980	51.26	30.85	7.45	24.69	52.55	74.00	-21.45	PK
H	22980		30.33	6.32	24.55	44.84	54.00	-9.16	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	54.84	30.55	5.77	24.66	54.72	74.00	-19.28	PK
V	11570	41.62	30.55	5.77	24.66	41.50	54.00	-12.50	AV
V	17355	53.21	30.33	6.32	24.55	53.75	74.00	-20.25	PK
V	17355	41.16	30.33	6.32	24.55	41.70	54.00	-12.30	AV
V	23140	51.13	30.85	7.45	24.69	52.42	74.00	-21.58	PK
V	23140	39.95	30.85	7.45	24.69	41.24	54.00	-12.76	AV
H	11570	56.85	30.55	5.77	24.66	56.73	74.00	-17.27	PK
H	11570	41.97	30.55	5.77	24.66	41.85	54.00	-12.15	AV
H	17355	52.71	30.33	6.32	24.55	53.25	74.00	-20.75	PK
H	17355	40.46	30.33	6.32	24.55	41.00	54.00	-13.00	AV
H	23140	50.83	30.85	7.45	24.69	52.12	74.00	-21.88	PK
H	23140	40.30	30.85	7.45	24.69	41.59	54.00	-12.41	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	57.05	30.55	5.77	24.66	56.93	74.00	-17.07	PK
V	11590	39.74	30.55	5.77	24.66	39.62	54.00	-14.38	AV
V	17385	53.59	30.33	6.32	24.55	54.13	74.00	-19.87	PK
V	17385	40.92	30.33	6.32	24.55	41.46	54.00	-12.54	AV
V	23180	48.88	30.85	7.45	24.69	50.17	74.00	-23.83	PK
V	23180	41.03	30.85	7.45	24.69	42.32	54.00	-11.68	AV
H	11590	57.30	30.55	5.77	24.66	57.18	74.00	-16.82	PK
H	11590	42.29	30.55	5.77	24.66	42.17	54.00	-11.83	AV
H	17385	53.05	30.33	6.32	24.55	53.59	74.00	-20.41	PK
H	17385	39.72	30.33	6.32	24.55	40.26	54.00	-13.74	AV
H	23180	49.19	30.85	7.45	24.69	50.48	74.00	-23.52	PK
H	23180	39.85	30.85	7.45	24.69	41.14	54.00	-12.86	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel:5190MHz									
V	10380	57.42	30.55	5.77	24.66	57.30	74.00	-16.70	PK
V	10380	39.78	30.55	5.77	24.66	39.66	54.00	-14.34	AV
V	15570	52.64	30.33	6.32	24.55	53.18	74.00	-20.82	PK
V	15570	41.10	30.33	6.32	24.55	41.64	54.00	-12.36	AV
V	20760	49.64	30.85	7.45	24.69	50.93	74.00	-23.07	PK
V	20760	38.98	30.85	7.45	24.69	40.27	54.00	-13.73	AV
H	10380	55.31	30.55	5.77	24.66	55.19	74.00	-18.81	PK
H	10380	42.28	30.55	5.77	24.66	42.16	54.00	-11.84	AV
H	15570	52.16	30.33	6.32	24.55	52.70	74.00	-21.30	PK
H	15570	38.87	30.33	6.32	24.55	39.41	54.00	-14.59	AV
H	20760	49.50	30.85	7.45	24.69	50.79	74.00	-23.21	PK
H	20760	41.60	30.85	7.45	24.69	42.89	54.00	-11.11	AV

Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	54.87	30.55	5.77	24.66	54.75	74.00	-19.25	PK
V	10460	39.56	30.55	5.77	24.66	39.44	54.00	-14.56	AV
V	15690	52.95	30.33	6.32	24.55	53.49	74.00	-20.51	PK
V	15690	40.69	30.33	6.32	24.55	41.23	54.00	-12.77	AV
V	20920	51.04	30.85	7.45	24.69	52.33	74.00	-21.67	PK
V	20920	39.97	30.85	7.45	24.69	41.26	54.00	-12.74	AV
H	10460	56.57	30.55	5.77	24.66	56.45	74.00	-17.55	PK
H	10460	42.09	30.55	5.77	24.66	41.97	54.00	-12.03	AV
H	15690	53.38	30.33	6.32	24.55	53.92	74.00	-20.08	PK
H	15690	39.20	30.33	6.32	24.55	39.74	54.00	-14.26	AV
H	20920	50.20	30.85	7.45	24.69	51.49	74.00	-22.51	PK
H	20920	39.71	30.85	7.45	24.69	41.00	54.00	-13.00	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	57.75	30.55	5.77	24.66	57.63	74.00	-16.37	PK
V	11510	40.10	30.55	5.77	24.66	39.98	54.00	-14.02	AV
V	17265	52.12	30.33	6.32	24.55	52.66	74.00	-21.34	PK
V	17265	39.84	30.33	6.32	24.55	40.38	54.00	-13.62	AV
V	23020	50.67	30.85	7.45	24.69	51.96	74.00	-22.04	PK
V	23020	40.88	30.85	7.45	24.69	42.17	54.00	-11.83	AV
H	11510	55.71	30.55	5.77	24.66	55.59	74.00	-18.41	PK
H	11510	41.23	30.55	5.77	24.66	41.11	54.00	-12.89	AV
H	17265	51.89	30.33	6.32	24.55	52.43	74.00	-21.57	PK
H	17265	40.71	30.33	6.32	24.55	41.25	54.00	-12.75	AV
H	23020	51.68	30.85	7.45	24.69	52.97	74.00	-21.03	PK
H	23020	39.65	30.85	7.45	24.69	40.94	54.00	-13.06	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	55.81	30.55	5.77	24.66	55.69	74.00	-18.31	PK
V	11590	41.73	30.55	5.77	24.66	41.61	54.00	-12.39	AV
V	17385	53.37	30.33	6.32	24.55	53.91	74.00	-20.09	PK
V	17385	39.26	30.33	6.32	24.55	39.80	54.00	-14.20	AV
V	23180	49.92	30.85	7.45	24.69	51.21	74.00	-22.79	PK
V	23180	39.24	30.85	7.45	24.69	40.53	54.00	-13.47	AV
H	11590	54.82	30.55	5.77	24.66	54.70	74.00	-19.30	PK
H	11590	40.34	30.55	5.77	24.66	40.22	54.00	-13.78	AV
H	17385	51.88	30.33	6.32	24.55	52.42	74.00	-21.58	PK
H	17385	40.99	30.33	6.32	24.55	41.53	54.00	-12.47	AV
H	23180	51.75	30.85	7.45	24.69	53.04	74.00	-20.96	PK
H	23180	41.39	30.85	7.45	24.69	42.68	54.00	-11.32	AV

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Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
5210MHz									
V	10420	56.21	30.55	5.77	24.66	56.09	74.00	-17.91	PK
V	10420	41.51	30.55	5.77	24.66	41.39	54.00	-12.61	AV
V	15630	52.66	30.33	6.32	24.55	53.20	74.00	-20.80	PK
V	15630	40.59	30.33	6.32	24.55	41.13	54.00	-12.87	AV
V	20840	51.06	30.85	7.45	24.69	52.35	74.00	-21.65	PK
V	20840	40.68	30.85	7.45	24.69	41.97	54.00	-12.03	AV
H	10420	55.52	30.55	5.77	24.66	55.40	74.00	-18.60	PK
H	10420	41.59	30.55	5.77	24.66	41.47	54.00	-12.53	AV
H	15630	52.28	30.33	6.32	24.55	52.82	74.00	-21.18	PK
H	15630	39.79	30.33	6.32	24.55	40.33	54.00	-13.67	AV
H	20840	49.88	30.85	7.45	24.69	51.17	74.00	-22.83	PK
H	20840	41.64	30.85	7.45	24.69	42.93	54.00	-11.07	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5775MHz									
V	11550	55.79	30.55	5.77	24.66	55.67	74.00	-18.33	PK
V	11550	39.01	30.55	5.77	24.66	38.89	54.00	-15.11	AV
V	17325	53.70	30.33	6.32	24.55	54.24	74.00	-19.76	PK
V	17325	41.20	30.33	6.32	24.55	41.74	54.00	-12.26	AV
V	23100	51.68	30.85	7.45	24.69	52.97	74.00	-21.03	PK
V	23100	41.42	30.85	7.45	24.69	42.71	54.00	-11.29	AV
H	11550	56.02	30.55	5.77	24.66	55.90	74.00	-18.10	PK
H	11550	39.98	30.55	5.77	24.66	39.86	54.00	-14.14	AV
H	17325	53.49	30.33	6.32	24.55	54.03	74.00	-19.97	PK
H	17325	39.03	30.33	6.32	24.55	39.57	54.00	-14.43	AV
H	23100	50.59	30.85	7.45	24.69	51.88	74.00	-22.12	PK
H	23100	41.42	30.85	7.45	24.69	42.71	54.00	-11.29	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	55.71	30.55	5.77	24.66	55.59	74.00	-18.41	PK
V	10360	41.01	30.55	5.77	24.66	40.89	54.00	-13.11	AV
V	15540	51.92	30.33	6.32	24.55	52.46	74.00	-21.54	PK
V	15540	40.53	30.33	6.32	24.55	41.07	54.00	-12.93	AV
V	20720	51.47	30.85	7.45	24.69	52.76	74.00	-21.24	PK
V	20720	40.93	30.85	7.45	24.69	42.22	54.00	-11.78	AV
H	10360	57.32	30.55	5.77	24.66	57.20	74.00	-16.80	PK
H	10360	41.74	30.55	5.77	24.66	41.62	54.00	-12.38	AV
H	15540	53.36	30.33	6.32	24.55	53.90	74.00	-20.10	PK
H	15540	40.88	30.33	6.32	24.55	41.42	54.00	-12.58	AV
H	20720	49.75	30.85	7.45	24.69	51.04	74.00	-22.96	PK
H	20720	40.55	30.85	7.45	24.69	41.84	54.00	-12.16	AV

Polar (H/V)	Frequency	Meter Reading	Pre-amp lifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5200MHz									
V	10400	55.23	30.55	5.77	24.66	55.11	74.00	-18.89	PK
V	10400	40.13	30.55	5.77	24.66	40.01	54.00	-13.99	AV
V	15600	53.51	30.33	6.32	24.55	54.05	74.00	-19.95	PK
V	15600	41.58	30.33	6.32	24.55	42.12	54.00	-11.88	AV
V	20800	49.83	30.85	7.45	24.69	51.12	74.00	-22.88	PK
V	20800	39.83	30.85	7.45	24.69	41.12	54.00	-12.88	AV
H	10400	56.56	30.55	5.77	24.66	56.44	74.00	-17.56	PK
H	10400	40.69	30.55	5.77	24.66	40.57	54.00	-13.43	AV
H	15600	52.28	30.33	6.32	24.55	52.82	74.00	-21.18	PK
H	15600	41.29	30.33	6.32	24.55	41.83	54.00	-12.17	AV
H	20800	49.01	30.85	7.45	24.69	50.30	74.00	-23.70	PK
H	20800	41.48	30.85	7.45	24.69	42.77	54.00	-11.23	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5240MHz									
V	10480	55.27	30.55	5.77	24.66	55.15	74.00	-18.85	PK
V	10480	40.70	30.55	5.77	24.66	40.58	54.00	-13.42	AV
V	15720	52.65	30.33	6.32	24.55	53.19	74.00	-20.81	PK
V	15720	41.65	30.33	6.32	24.55	42.19	54.00	-11.81	AV
V	20960	49.94	30.85	7.45	24.69	51.23	74.00	-22.77	PK
V	20960	41.54	30.85	7.45	24.69	42.83	54.00	-11.17	AV
H	10480	55.38	30.55	5.77	24.66	55.26	74.00	-18.74	PK
H	10480	40.53	30.55	5.77	24.66	40.41	54.00	-13.59	AV
H	15720	53.67	30.33	6.32	24.55	54.21	74.00	-19.79	PK
H	15720	40.99	30.33	6.32	24.55	41.53	54.00	-12.47	AV
H	20960	49.66	30.85	7.45	24.69	50.95	74.00	-23.05	PK
H	20960	40.49	30.85	7.45	24.69	41.78	54.00	-12.22	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5745MHz									
V	11490	55.37	30.55	5.77	24.66	55.25	74.00	-18.75	PK
V	11490	40.05	30.55	5.77	24.66	39.93	54.00	-14.07	AV
V	17235	53.61	30.33	6.32	24.55	54.15	74.00	-19.85	PK
V	17235	39.66	30.33	6.32	24.55	40.20	54.00	-13.80	AV
V	22980	49.00	30.85	7.45	24.69	50.29	74.00	-23.71	PK
V	22980	39.97	30.85	7.45	24.69	41.26	54.00	-12.74	AV
H	11490	56.73	30.55	5.77	24.66	56.61	74.00	-17.39	PK
H	11490	41.66	30.55	5.77	24.66	41.54	54.00	-12.46	AV
H	17235	51.96	30.33	6.32	24.55	52.50	74.00	-21.50	PK
H	17235	40.53	30.33	6.32	24.55	41.07	54.00	-12.93	AV
H	22980	51.37	30.85	7.45	24.69	52.66	74.00	-21.34	PK
H	22980	40.27	30.85	7.45	24.69	41.56	54.00	-12.44	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	55.39	30.55	5.77	24.66	55.27	74.00	-18.73	PK
V	11570	40.20	30.55	5.77	24.66	40.08	54.00	-13.92	AV
V	17355	53.09	30.33	6.32	24.55	53.63	74.00	-20.37	PK
V	17355	41.74	30.33	6.32	24.55	42.28	54.00	-11.72	AV
V	23140	50.59	30.85	7.45	24.69	51.88	74.00	-22.12	PK
V	23140	39.64	30.85	7.45	24.69	40.93	54.00	-13.07	AV
H	11570	55.22	30.55	5.77	24.66	55.10	74.00	-18.90	PK
H	11570	42.23	30.55	5.77	24.66	42.11	54.00	-11.89	AV
H	17355	53.67	30.33	6.32	24.55	54.21	74.00	-19.79	PK
H	17355	39.31	30.33	6.32	24.55	39.85	54.00	-14.15	AV
H	23140	50.38	30.85	7.45	24.69	51.67	74.00	-22.33	PK
H	23140	38.79	30.85	7.45	24.69	40.08	54.00	-13.92	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5825MHz									
V	11650	56.12	30.55	5.77	24.66	56.00	74.00	-18.00	PK
V	11650	39.47	30.55	5.77	24.66	39.35	54.00	-14.65	AV
V	17475	51.83	30.33	6.32	24.55	52.37	74.00	-21.63	PK
V	17475	40.05	30.33	6.32	24.55	40.59	54.00	-13.41	AV
V	23300	50.53	30.85	7.45	24.69	51.82	74.00	-22.18	PK
V	23300	39.73	30.85	7.45	24.69	41.02	54.00	-12.98	AV
H	11650	55.04	30.55	5.77	24.66	54.92	74.00	-19.08	PK
H	11650	41.93	30.55	5.77	24.66	41.81	54.00	-12.19	AV
H	17475	52.25	30.33	6.32	24.55	52.79	74.00	-21.21	PK
H	17475	39.37	30.33	6.32	24.55	39.91	54.00	-14.09	AV
H	23300	50.08	30.85	7.45	24.69	51.37	74.00	-22.63	PK
H	23300	39.04	30.85	7.45	24.69	40.33	54.00	-13.67	AV

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5190MHz									
V	10380	56.95	30.55	5.77	24.66	56.83	74.00	-17.17	PK
V	10380	40.42	30.55	5.77	24.66	40.30	54.00	-13.70	AV
V	15570	53.45	30.33	6.32	24.55	53.99	74.00	-20.01	PK
V	15570	40.54	30.33	6.32	24.55	41.08	54.00	-12.92	AV
V	20760	49.63	30.85	7.45	24.69	50.92	74.00	-23.08	PK
V	20760	40.42	30.85	7.45	24.69	41.71	54.00	-12.29	AV
H	10380	56.49	30.55	5.77	24.66	56.37	74.00	-17.63	PK
H	10380	41.80	30.55	5.77	24.66	41.68	54.00	-12.32	AV
H	15570	52.19	30.33	6.32	24.55	52.73	74.00	-21.27	PK
H	15570	41.38	30.33	6.32	24.55	41.92	54.00	-12.08	AV
H	20760	50.69	30.85	7.45	24.69	51.98	74.00	-22.02	PK
H	20760	39.52	30.85	7.45	24.69	40.81	54.00	-13.19	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Middle Channel:5230MHz									
V	10460	57.56	30.55	5.77	24.66	57.44	74.00	-16.56	PK
V	10460	39.66	30.55	5.77	24.66	39.54	54.00	-14.46	AV
V	15690	53.37	30.33	6.32	24.55	53.91	74.00	-20.09	PK
V	15690	40.41	30.33	6.32	24.55	40.95	54.00	-13.05	AV
V	20920	48.97	30.85	7.45	24.69	50.26	74.00	-23.74	PK
V	20920	39.75	30.85	7.45	24.69	41.04	54.00	-12.96	AV
H	10460	56.22	30.55	5.77	24.66	56.10	74.00	-17.90	PK
H	10460	42.23	30.55	5.77	24.66	42.11	54.00	-11.89	AV
H	15690	53.57	30.33	6.32	24.55	54.11	74.00	-19.89	PK
H	15690	39.43	30.33	6.32	24.55	39.97	54.00	-14.03	AV
H	20920	50.63	30.85	7.45	24.69	51.92	74.00	-22.08	PK
H	20920	39.17	30.85	7.45	24.69	40.46	54.00	-13.54	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5755MHz									
V	11510	56.59	30.55	5.77	24.66	56.47	74.00	-17.53	PK
V	11510	39.51	30.55	5.77	24.66	39.39	54.00	-14.61	AV
V	17265	53.32	30.33	6.32	24.55	53.86	74.00	-20.14	PK
V	17265	41.29	30.33	6.32	24.55	41.83	54.00	-12.17	AV
V	23020	49.37	30.85	7.45	24.69	50.66	74.00	-23.34	PK
V	23020	41.74	30.85	7.45	24.69	43.03	54.00	-10.97	AV
H	11510	57.75	30.55	5.77	24.66	57.63	74.00	-16.37	PK
H	11510	41.29	30.55	5.77	24.66	41.17	54.00	-12.83	AV
H	17265	52.35	30.33	6.32	24.55	52.89	74.00	-21.11	PK
H	17265	40.39	30.33	6.32	24.55	40.93	54.00	-13.07	AV
H	23020	49.47	30.85	7.45	24.69	50.76	74.00	-23.24	PK
H	23020	39.90	30.85	7.45	24.69	41.19	54.00	-12.81	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	55.18	30.55	5.77	24.66	55.06	74.00	-18.94	PK
V	11590	39.85	30.55	5.77	24.66	39.73	54.00	-14.27	AV
V	17385	52.50	30.33	6.32	24.55	53.04	74.00	-20.96	PK
V	17385	41.42	30.33	6.32	24.55	41.96	54.00	-12.04	AV
V	23180	49.75	30.85	7.45	24.69	51.04	74.00	-22.96	PK
V	23180	39.51	30.85	7.45	24.69	40.80	54.00	-13.20	AV
H	11590	56.52	30.55	5.77	24.66	56.40	74.00	-17.60	PK
H	11590	40.58	30.55	5.77	24.66	40.46	54.00	-13.54	AV
H	17385	53.34	30.33	6.32	24.55	53.88	74.00	-20.12	PK
H	17385	40.77	30.33	6.32	24.55	41.31	54.00	-12.69	AV
H	23180	50.13	30.85	7.45	24.69	51.42	74.00	-22.58	PK
H	23180	41.56	30.85	7.45	24.69	42.85	54.00	-11.15	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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

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Polar (H/V)	Frequency	Meter Reading	Pre-ampl ifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5180MHz									
V	10360	55.72	30.55	5.77	24.66	55.60	74.00	-18.40	PK
V	10360	39.04	30.55	5.77	24.66	38.92	54.00	-15.08	AV
V	15540	53.11	30.33	6.32	24.55	53.65	74.00	-20.35	PK
V	15540	40.15	30.33	6.32	24.55	40.69	54.00	-13.31	AV
V	20720	49.75	30.85	7.45	24.69	51.04	74.00	-22.96	PK

V	20720	40.17	30.85	7.45	24.69	41.46	54.00	-12.54	AV
H	10360	55.70	30.55	5.77	24.66	55.58	74.00	-18.42	PK
H	10360	42.62	30.55	5.77	24.66	42.50	54.00	-11.50	AV
H	15540	52.29	30.33	6.32	24.55	52.83	74.00	-21.17	PK
H	15540	41.38	30.33	6.32	24.55	41.92	54.00	-12.08	AV
H	20720	49.46	30.85	7.45	24.69	50.75	74.00	-23.25	PK
H	20720	41.45	30.85	7.45	24.69	42.74	54.00	-11.26	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
Middle Channel:5200MHz									
V	10400	54.81	30.55	5.77	24.66	54.69	74.00	-19.31	PK
V	10400	39.32	30.55	5.77	24.66	39.20	54.00	-14.80	AV
V	15600	53.74	30.33	6.32	24.55	54.28	74.00	-19.72	PK
V	15600	40.39	30.33	6.32	24.55	40.93	54.00	-13.07	AV
V	20800	50.97	30.85	7.45	24.69	52.26	74.00	-21.74	PK
V	20800	40.37	30.85	7.45	24.69	41.66	54.00	-12.34	AV
H	10400	55.37	30.55	5.77	24.66	55.25	74.00	-18.75	PK
H	10400	41.99	30.55	5.77	24.66	41.87	54.00	-12.13	AV
H	15600	52.22	30.33	6.32	24.55	52.76	74.00	-21.24	PK
H	15600	41.43	30.33	6.32	24.55	41.97	54.00	-12.03	AV
H	20800	50.48	30.85	7.45	24.69	51.77	74.00	-22.23	PK
H	20800	40.04	30.85	7.45	24.69	41.33	54.00	-12.67	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
High Channel:5240MHz									
V	10480	55.05	30.55	5.77	24.66	54.93	74.00	-19.07	PK
V	10480	40.08	30.55	5.77	24.66	39.96	54.00	-14.04	AV
V	15720	53.23	30.33	6.32	24.55	53.77	74.00	-20.23	PK
V	15720	39.41	30.33	6.32	24.55	39.95	54.00	-14.05	AV
V	20960	51.19	30.85	7.45	24.69	52.48	74.00	-21.52	PK
V	20960	39.05	30.85	7.45	24.69	40.34	54.00	-13.66	AV
H	10480	56.13	30.55	5.77	24.66	56.01	74.00	-17.99	PK
H	10480	40.34	30.55	5.77	24.66	40.22	54.00	-13.78	AV
H	15720	52.42	30.33	6.32	24.55	52.96	74.00	-21.04	PK
H	15720	38.99	30.33	6.32	24.55	39.53	54.00	-14.47	AV
H	20960	51.02	30.85	7.45	24.69	52.31	74.00	-21.69	PK
H	20960	38.95	30.85	7.45	24.69	40.24	54.00	-13.76	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
High Channel:5745MHz									
V	11490	55.98	30.55	5.77	24.66	55.86	74.00	-18.14	PK
V	11490	41.28	30.55	5.77	24.66	41.16	54.00	-12.84	AV
V	17235	52.61	30.33	6.32	24.55	53.15	74.00	-20.85	PK
V	17235	39.52	30.33	6.32	24.55	40.06	54.00	-13.94	AV
V	22980	51.46	30.85	7.45	24.69	52.75	74.00	-21.25	PK
V	22980	41.38	30.85	7.45	24.69	42.67	54.00	-11.33	AV
H	11490	57.60	30.55	5.77	24.66	57.48	74.00	-16.52	PK

H	11490	42.65	30.55	5.77	24.66	42.53	54.00	-11.47	AV
H	17235	53.25	30.33	6.32	24.55	53.79	74.00	-20.21	PK
H	17235	41.02	30.33	6.32	24.55	41.56	54.00	-12.44	AV
H	22980	51.30	30.85	7.45	24.69	52.59	74.00	-21.41	PK
H	22980	41.05	30.85	7.45	24.69	42.34	54.00	-11.66	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5785MHz									
V	11570	55.86	30.55	5.77	24.66	55.74	74.00	-18.26	PK
V	11570	40.13	30.55	5.77	24.66	40.01	54.00	-13.99	AV
V	17355	52.25	30.33	6.32	24.55	52.79	74.00	-21.21	PK
V	17355	38.94	30.33	6.32	24.55	39.48	54.00	-14.52	AV
V	23140	50.73	30.85	7.45	24.69	52.02	74.00	-21.98	PK
V	23140	40.63	30.85	7.45	24.69	41.92	54.00	-12.08	AV
H	11570	57.16	30.55	5.77	24.66	57.04	74.00	-16.96	PK
H	11570	41.65	30.55	5.77	24.66	41.53	54.00	-12.47	AV
H	17355	51.91	30.33	6.32	24.55	52.45	74.00	-21.55	PK
H	17355	41.54	30.33	6.32	24.55	42.08	54.00	-11.92	AV
H	23140	51.19	30.85	7.45	24.69	52.48	74.00	-21.52	PK
H	23140	40.44	30.85	7.45	24.69	41.73	54.00	-12.27	AV

Polar (H/V)	Frequency	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
High Channel:5795MHz									
V	11590	54.88	30.55	5.77	24.66	54.76	74.00	-19.24	PK
V	11590	41.22	30.55	5.77	24.66	41.10	54.00	-12.90	AV
V	17385	51.81	30.33	6.32	24.55	52.35	74.00	-21.65	PK
V	17385	40.52	30.33	6.32	24.55	41.06	54.00	-12.94	AV
V	23180	49.17	30.85	7.45	24.69	50.46	74.00	-23.54	PK
V	23180	39.60	30.85	7.45	24.69	40.89	54.00	-13.11	AV
H	11590	55.98	30.55	5.77	24.66	55.86	74.00	-18.14	PK
H	11590	40.88	30.55	5.77	24.66	40.76	54.00	-13.24	AV
H	17385	52.08	30.33	6.32	24.55	52.62	74.00	-21.38	PK
H	17385	38.82	30.33	6.32	24.55	39.36	54.00	-14.64	AV
H	23180	50.54	30.85	7.45	24.69	51.83	74.00	-22.17	PK
H	23180	40.22	30.85	7.45	24.69	41.51	54.00	-12.49	AV

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Polar (H/V)	Frequenc y	Meter Reading	Pre-ampli fier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detect or Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/ m)	(dB)	
Low Channel:5190MHz									
V	10380	55.51	30.55	5.77	24.66	55.39	74.00	-18.61	PK
V	10380	39.64	30.55	5.77	24.66	39.52	54.00	-14.48	AV
V	15570	53.24	30.33	6.32	24.55	53.78	74.00	-20.22	PK
V	15570	39.82	30.33	6.32	24.55	40.36	54.00	-13.64	AV
V	20760	51.68	30.85	7.45	24.69	52.97	74.00	-21.03	PK

V	20760	41.11	30.85	7.45	24.69	42.40	54.00	-11.60	AV
H	10380	55.74	30.55	5.77	24.66	55.62	74.00	-18.38	PK
H	10380	40.80	30.55	5.77	24.66	40.68	54.00	-13.32	AV
H	15570	53.26	30.33	6.32	24.55	53.80	74.00	-20.20	PK
H	15570	39.68	30.33	6.32	24.55	40.22	54.00	-13.78	AV
H	20760	50.65	30.85	7.45	24.69	51.94	74.00	-22.06	PK
H	20760	41.50	30.85	7.45	24.69	42.79	54.00	-11.21	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
Middle Channel:5230MHz									
V	10460	56.79	30.55	5.77	24.66	56.67	74.00	-17.33	PK
V	10460	39.86	30.55	5.77	24.66	39.74	54.00	-14.26	AV
V	15690	53.27	30.33	6.32	24.55	53.81	74.00	-20.19	PK
V	15690	40.97	30.33	6.32	24.55	41.51	54.00	-12.49	AV
V	20920	50.63	30.85	7.45	24.69	51.92	74.00	-22.08	PK
V	20920	41.66	30.85	7.45	24.69	42.95	54.00	-11.05	AV
H	10460	55.67	30.55	5.77	24.66	55.55	74.00	-18.45	PK
H	10460	42.47	30.55	5.77	24.66	42.35	54.00	-11.65	AV
H	15690	51.80	30.33	6.32	24.55	52.34	74.00	-21.66	PK
H	15690	38.94	30.33	6.32	24.55	39.48	54.00	-14.52	AV
H	20920	50.19	30.85	7.45	24.69	51.48	74.00	-22.52	PK
H	20920	41.30	30.85	7.45	24.69	42.59	54.00	-11.41	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
High Channel:5755MHz									
V	11510	56.43	30.55	5.77	24.66	56.31	74.00	-17.69	PK
V	11510	41.31	30.55	5.77	24.66	41.19	54.00	-12.81	AV
V	17265	53.50	30.33	6.32	24.55	54.04	74.00	-19.96	PK
V	17265	40.29	30.33	6.32	24.55	40.83	54.00	-13.17	AV
V	23020	50.02	30.85	7.45	24.69	51.31	74.00	-22.69	PK
V	23020	39.76	30.85	7.45	24.69	41.05	54.00	-12.95	AV
H	11510	54.88	30.55	5.77	24.66	54.76	74.00	-19.24	PK
H	11510	40.93	30.55	5.77	24.66	40.81	54.00	-13.19	AV
H	17265	52.98	30.33	6.32	24.55	53.52	74.00	-20.48	PK
H	17265	39.33	30.33	6.32	24.55	39.87	54.00	-14.13	AV
H	23020	51.00	30.85	7.45	24.69	52.29	74.00	-21.71	PK
H	23020	39.03	30.85	7.45	24.69	40.32	54.00	-13.68	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
High Channel:5795MHz									
V	11590	56.64	30.55	5.77	24.66	56.52	74.00	-17.48	PK
V	11590	40.03	30.55	5.77	24.66	39.91	54.00	-14.09	AV
V	17385	53.25	30.33	6.32	24.55	53.79	74.00	-20.21	PK
V	17385	40.20	30.33	6.32	24.55	40.74	54.00	-13.26	AV
V	23180	49.70	30.85	7.45	24.69	50.99	74.00	-23.01	PK
V	23180	40.93	30.85	7.45	24.69	42.22	54.00	-11.78	AV
H	11590	57.34	30.55	5.77	24.66	57.22	74.00	-16.78	PK

H	11590	40.76	30.55	5.77	24.66	40.64	54.00	-13.36	AV
H	17385	53.22	30.33	6.32	24.55	53.76	74.00	-20.24	PK
H	17385	40.90	30.33	6.32	24.55	41.44	54.00	-12.56	AV
H	23180	50.92	30.85	7.45	24.69	52.21	74.00	-21.79	PK
H	23180	38.83	30.85	7.45	24.69	40.12	54.00	-13.88	AV

MIMO-802.11ac80

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
5210MHz									
V	10420	57.46	30.55	5.77	24.66	57.34	74.00	-16.66	PK
V	10420	40.23	30.55	5.77	24.66	40.11	54.00	-13.89	AV
V	15630	53.28	30.33	6.32	24.55	53.82	74.00	-20.18	PK
V	15630	41.55	30.33	6.32	24.55	42.09	54.00	-11.91	AV
V	20840	49.39	30.85	7.45	24.69	50.68	74.00	-23.32	PK
V	20840	41.02	30.85	7.45	24.69	42.31	54.00	-11.69	AV
H	10420	55.29	30.55	5.77	24.66	55.17	74.00	-18.83	PK
H	10420	40.27	30.55	5.77	24.66	40.15	54.00	-13.85	AV
H	15630	53.75	30.33	6.32	24.55	54.29	74.00	-19.71	PK
H	15630	40.71	30.33	6.32	24.55	41.25	54.00	-12.75	AV
H	20840	50.52	30.85	7.45	24.69	51.81	74.00	-22.19	PK
H	20840	40.78	30.85	7.45	24.69	42.07	54.00	-11.93	AV

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Pre-amplifier (dB)	Cable Loss (dB)	Antenna Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Detect or Type
5775MHz									
V	11550	55.74	30.55	5.77	24.66	55.62	74.00	-18.38	PK
V	11550	40.50	30.55	5.77	24.66	40.38	54.00	-13.62	AV
V	17325	52.59	30.33	6.32	24.55	53.13	74.00	-20.87	PK
V	17325	40.35	30.33	6.32	24.55	40.89	54.00	-13.11	AV
V	23100	50.29	30.85	7.45	24.69	51.58	74.00	-22.42	PK
V	23100	41.23	30.85	7.45	24.69	42.52	54.00	-11.48	AV
H	11550	57.76	30.55	5.77	24.66	57.64	74.00	-16.36	PK
H	11550	40.57	30.55	5.77	24.66	40.45	54.00	-13.55	AV
H	17325	53.73	30.33	6.32	24.55	54.27	74.00	-19.73	PK
H	17325	39.93	30.33	6.32	24.55	40.47	54.00	-13.53	AV
H	23100	50.32	30.85	7.45	24.69	51.61	74.00	-22.39	PK
H	23100	40.42	30.85	7.45	24.69	41.71	54.00	-12.29	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,

Margin= Emission Level - Limit

2. If peak below the average limit, the average emission was no test.

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

Radiated Band Edge Test:

ANT1

Worse case mode:		802.11a		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	54.82	-0.12	54.70	74.00	-19.30	peak	H
	39.91	-0.12	39.79	54.00	-14.21	AV	H
5150	52.57	-0.12	52.45	74.00	-21.55	peak	V
	37.92	-0.12	37.80	54.00	-16.20	AV	V

Worse case mode:		802.11a		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	52.30	-0.12	52.18	74.00	-21.82	peak	H
	41.11	-0.12	40.99	54.00	-13.01	AV	H
5250	54.25	-0.12	54.13	74.00	-19.87	peak	V
	39.59	-0.12	39.47	54.00	-14.53	AV	V

Worse case mode:		802.11a		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	48.09	-0.12	47.97	68.20	-20.23	peak	H
5700	87.00	-0.12	86.88	105.20	-18.32	peak	H
5720	87.23	-0.12	87.11	110.80	-23.69	peak	H
5725	97.70	-0.12	97.58	122.20	-24.62	peak	H
5650	49.68	-0.12	49.56	68.20	-18.64	peak	V
5700	86.34	-0.12	86.22	105.20	-18.98	peak	V
5720	88.80	-0.12	88.68	110.80	-22.12	peak	V
5725	95.60	-0.12	95.48	122.20	-26.72	peak	V

Worse case mode:		802.11a		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	102.63	-0.12	102.51	122.20	-19.69	peak	H
5855	86.72	-0.12	86.60	110.80	-24.20	peak	H
5875	86.21	-0.12	86.09	105.20	-19.11	peak	H
5925	51.05	-0.12	50.93	68.20	-17.27	peak	H
5850	104.01	-0.12	103.89	122.20	-18.31	peak	V
5855	88.94	-0.12	88.82	110.80	-21.98	peak	V
5875	82.82	-0.12	82.70	105.20	-22.50	peak	V
5925	53.28	-0.12	53.16	68.20	-15.04	peak	V

Worse case mode:		802.11n20		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	54.16	-0.12	54.04	74.00	-19.96	peak	H
	41.25	-0.12	41.13	54.00	-12.87	AV	H
5150	55.18	-0.12	55.06	74.00	-18.94	peak	V
	38.23	-0.12	38.11	54.00	-15.89	AV	V

Worse case mode:		802.11n20		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	52.30	-0.12	52.18	74.00	-21.82	peak	H
	41.11	-0.12	40.99	54.00	-13.01	AV	H
5250	54.25	-0.12	54.13	74.00	-19.87	peak	V
	39.59	-0.12	39.47	54.00	-14.53	AV	V

Worse case mode:		802.11n20		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	48.24	-0.12	48.12	68.20	-20.08	peak	H
5700	85.46	-0.12	85.34	105.20	-19.86	peak	H
5720	90.27	-0.12	90.15	110.80	-20.65	peak	H
5725	97.46	-0.12	97.34	122.20	-24.86	peak	H
5650	48.99	-0.12	48.87	68.20	-19.33	peak	V
5700	86.36	-0.12	86.24	105.20	-18.96	peak	V
5720	87.52	-0.12	87.40	110.80	-23.40	peak	V
5725	92.10	-0.12	91.98	122.20	-30.22	peak	V

Worse case mode:		802.11n20		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	104.21	-0.12	104.09	122.20	-18.11	peak	H
5855	88.78	-0.12	88.66	110.80	-22.14	peak	H
5875	86.09	-0.12	85.97	105.20	-19.23	peak	H
5925	52.50	-0.12	52.38	68.20	-15.82	peak	H
5850	102.31	-0.12	102.19	122.20	-20.01	peak	V
5855	89.17	-0.12	89.05	110.80	-21.75	peak	V
5875	86.57	-0.12	86.45	105.20	-18.75	peak	V
5925	53.30	-0.12	53.18	68.20	-15.02	peak	V

Worse case mode:		802.11n40		Test channel:		38	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	51.93	-0.12	51.81	74.00	-22.19	peak	H
	38.23	-0.12	38.11	54.00	-15.89	AV	H
5150	53.94	-0.12	53.82	74.00	-20.18	peak	V
	37.78	-0.12	37.66	54.00	-16.34	AV	V

Worse case mode:		802.11n40		Test channel:		46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	53.03	-0.12	52.91	74.00	-21.09	peak	H
	40.60	-0.12	40.48	54.00	-13.52	AV	H
5250	53.54	-0.12	53.42	74.00	-20.58	peak	V
	40.83	-0.12	40.71	54.00	-13.29	AV	V

Worse case mode:		802.11n40		Test channel:		151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	49.99	-0.12	49.87	68.20	-18.33	peak	H
5700	87.17	-0.12	87.05	105.20	-18.15	peak	H
5720	89.02	-0.12	88.90	110.80	-21.90	peak	H
5725	98.77	-0.12	98.65	122.20	-23.55	peak	H
5650	50.72	-0.12	50.60	68.20	-17.60	peak	V
5700	85.73	-0.12	85.61	105.20	-19.59	peak	V
5720	90.13	-0.12	90.01	110.80	-20.79	peak	V
5725	93.80	-0.12	93.68	122.20	-28.52	peak	V

Worse case mode:		802.11n40		Test channel:		159	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	100.33	-0.12	100.21	122.20	-21.99	peak	H
5855	88.39	-0.12	88.27	110.80	-22.53	peak	H
5875	86.47	-0.12	86.35	105.20	-18.85	peak	H
5925	51.81	-0.12	51.69	68.20	-16.51	peak	H
5850	103.53	-0.12	103.41	122.20	-18.79	peak	V
5855	87.68	-0.12	87.56	110.80	-23.24	peak	V
5875	87.46	-0.12	87.34	105.20	-17.86	peak	V
5925	50.95	-0.12	50.83	68.20	-17.37	peak	V

Worse case mode:		802.11ac20		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	51.29	-0.12	51.17	74.00	-22.83	peak	H
	40.10	-0.12	39.98	54.00	-14.02	AV	H
5150	52.96	-0.12	52.84	74.00	-21.16	peak	V
	40.36	-0.12	40.24	54.00	-13.76	AV	V

Worse case mode:		802.11ac20		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	54.93	-0.12	54.81	74.00	-19.19	peak	H
	38.79	-0.12	38.67	54.00	-15.33	AV	H
5250	55.89	-0.12	55.77	74.00	-18.23	peak	V
	38.75	-0.12	38.63	54.00	-15.37	AV	V

Worse case mode:		802.11ac20		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	49.18	-0.12	49.06	68.20	-19.14	peak	H
5700	86.22	-0.12	86.10	105.20	-19.10	peak	H
5720	90.31	-0.12	90.19	110.80	-20.61	peak	H
5725	97.99	-0.12	97.87	122.20	-24.33	peak	H
5650	48.22	-0.12	48.10	68.20	-20.10	peak	V
5700	86.92	-0.12	86.80	105.20	-18.40	peak	V
5720	89.36	-0.12	89.24	110.80	-21.56	peak	V
5725	93.11	-0.12	92.99	122.20	-29.21	peak	V

Worse case mode:		802.11ac20		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	103.42	-0.12	103.30	122.20	-18.90	peak	H
5855	88.32	-0.12	88.20	110.80	-22.60	peak	H
5875	85.64	-0.12	85.52	105.20	-19.68	peak	H
5925	50.73	-0.12	50.61	68.20	-17.59	peak	H
5850	104.21	-0.12	104.09	122.20	-18.11	peak	V
5855	89.59	-0.12	89.47	110.80	-21.33	peak	V
5875	85.82	-0.12	85.70	105.20	-19.50	peak	V
5925	53.15	-0.12	53.03	68.20	-15.17	peak	V

Worse case mode:		802.11ac40		Test channel:		38	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	53.77	-0.12	53.65	74.00	-20.35	peak	H
	41.26	-0.12	41.14	54.00	-12.86	AV	H
5150	53.61	-0.12	53.49	74.00	-20.51	peak	V
	38.37	-0.12	38.25	54.00	-15.75	AV	V

Worse case mode:		802.11ac40		Test channel:		46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	55.20	-0.12	55.08	74.00	-18.92	peak	H
	38.75	-0.12	38.63	54.00	-15.37	AV	H
5250	56.26	-0.12	56.14	74.00	-17.86	peak	V
	38.80	-0.12	38.68	54.00	-15.32	AV	V

Worse case mode:		802.11ac40		Test channel:		151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	47.75	-0.12	47.63	68.20	-20.57	peak	H
5700	86.08	-0.12	85.96	105.20	-19.24	peak	H
5720	89.70	-0.12	89.58	110.80	-21.22	peak	H
5725	97.48	-0.12	97.36	122.20	-24.84	peak	H
5650	47.26	-0.12	47.14	68.20	-21.06	peak	V
5700	87.71	-0.12	87.59	105.20	-17.61	peak	V
5720	87.48	-0.12	87.36	110.80	-23.44	peak	V
5725	92.60	-0.12	92.48	122.20	-29.72	peak	V

Worse case mode:		802.11ac40		Test channel:		159	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	102.72	-0.12	102.60	122.20	-19.60	peak	H
5855	87.27	-0.12	87.15	110.80	-23.65	peak	H
5875	84.20	-0.12	84.08	105.20	-21.12	peak	H
5925	50.12	-0.12	50.00	68.20	-18.20	peak	H
5850	101.98	-0.12	101.86	122.20	-20.34	peak	V
5855	86.45	-0.12	86.33	110.80	-24.47	peak	V
5875	84.76	-0.12	84.64	105.20	-20.56	peak	V
5925	50.76	-0.12	50.64	68.20	-17.56	peak	V

Worse case mode:		802.11ac80		Test channel:		42	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	52.79	-0.12	52.67	74.00	-21.33	peak	H
	39.48	-0.12	39.36	54.00	-14.64	AV	H
5150	55.19	-0.12	55.07	74.00	-18.93	peak	V
	37.50	-0.12	37.38	54.00	-16.62	AV	V
5250	52.81	-0.12	52.69	74.00	-21.31	peak	H
	41.66	-0.12	41.54	54.00	-12.46	AV	H
5250	53.42	-0.12	53.30	74.00	-20.70	peak	V
	38.53	-0.12	38.41	54.00	-15.59	AV	V

Worse case mode:		802.11ac80		Test channel:		155	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	48.27	-0.12	48.15	68.20	-20.05	peak	H
5700	85.56	-0.12	85.44	105.20	-19.76	peak	H
5720	87.92	-0.12	87.80	110.80	-23.00	peak	H
5725	96.44	-0.12	96.32	122.20	-25.88	peak	H
5650	49.74	-0.12	49.62	68.20	-18.58	peak	V
5700	86.23	-0.12	86.11	105.20	-19.09	peak	V
5720	87.55	-0.12	87.43	110.80	-23.37	peak	V
5725	92.05	-0.12	91.93	122.20	-30.27	peak	V
5850	101.05	-0.12	100.93	122.20	-21.27	peak	H
5855	87.48	-0.12	87.36	110.80	-23.44	peak	H
5875	83.97	-0.12	83.85	105.20	-21.35	peak	H
5925	50.21	-0.12	50.09	68.20	-18.11	peak	H
5850	100.81	-0.12	100.69	122.20	-21.51	peak	V
5855	89.36	-0.12	89.24	110.80	-21.56	peak	V
5875	85.70	-0.12	85.58	105.20	-19.62	peak	V
5925	50.29	-0.12	50.17	68.20	-18.03	peak	V

ANT2

Worse case mode:		802.11a		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	55.07	-0.12	54.95	74.00	-19.05	peak	H
	41.97	-0.12	41.85	54.00	-12.15	AV	H
5150	52.41	-0.12	52.29	74.00	-21.71	peak	V
	40.22	-0.12	40.10	54.00	-13.90	AV	V

Worse case mode:		802.11a		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	51.61	-0.12	51.49	74.00	-22.51	peak	H
	40.49	-0.12	40.37	54.00	-13.63	AV	H
5250	53.96	-0.12	53.84	74.00	-20.16	peak	V
	37.47	-0.12	37.35	54.00	-16.65	AV	V

Worse case mode:		802.11a		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	49.11	-0.12	48.99	68.20	-19.21	peak	H
5700	85.44	-0.12	85.32	105.20	-19.88	peak	H
5720	90.02	-0.12	89.90	110.80	-20.90	peak	H
5725	98.54	-0.12	98.42	122.20	-23.78	peak	H
5650	50.31	-0.12	50.19	68.20	-18.01	peak	V
5700	86.73	-0.12	86.61	105.20	-18.59	peak	V
5720	87.92	-0.12	87.80	110.80	-23.00	peak	V
5725	94.16	-0.12	94.04	122.20	-28.16	peak	V

Worse case mode:		802.11a		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	103.56	-0.12	103.44	122.20	-18.76	peak	H
5855	85.42	-0.12	85.30	110.80	-25.50	peak	H
5875	83.33	-0.12	83.21	105.20	-21.99	peak	H
5925	53.21	-0.12	53.09	68.20	-15.11	peak	H
5850	100.56	-0.12	100.44	122.20	-21.76	peak	V
5855	88.73	-0.12	88.61	110.80	-22.19	peak	V
5875	83.30	-0.12	83.18	105.20	-22.02	peak	V
5925	51.59	-0.12	51.47	68.20	-16.73	peak	V

Worse case mode:		802.11n20		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	54.00	-0.12	53.88	74.00	-20.12	peak	H
	39.92	-0.12	39.80	54.00	-14.20	AV	H
5150	52.89	-0.12	52.77	74.00	-21.23	peak	V
	39.02	-0.12	38.90	54.00	-15.10	AV	V

Worse case mode:		802.11n20		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	54.69	-0.12	54.57	74.00	-19.43	peak	H
	39.72	-0.12	39.60	54.00	-14.40	AV	H
5250	53.50	-0.12	53.38	74.00	-20.62	peak	V
	40.06	-0.12	39.94	54.00	-14.06	AV	V

Worse case mode:		802.11n20		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	50.59	-0.12	50.47	68.20	-17.73	peak	H
5700	86.60	-0.12	86.48	105.20	-18.72	peak	H
5720	90.66	-0.12	90.54	110.80	-20.26	peak	H
5725	98.96	-0.12	98.84	122.20	-23.36	peak	H
5650	46.79	-0.12	46.67	68.20	-21.53	peak	V
5700	86.95	-0.12	86.83	105.20	-18.37	peak	V
5720	87.50	-0.12	87.38	110.80	-23.42	peak	V
5725	94.19	-0.12	94.07	122.20	-28.13	peak	V

Worse case mode:		802.11n20		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	105.96	-0.12	105.84	122.20	-16.36	peak	H
5855	88.93	-0.12	88.81	110.80	-21.99	peak	H
5875	86.52	-0.12	86.40	105.20	-18.80	peak	H
5925	51.43	-0.12	51.31	68.20	-16.89	peak	H
5850	105.69	-0.12	105.57	122.20	-16.63	peak	V
5855	89.80	-0.12	89.68	110.80	-21.12	peak	V
5875	82.30	-0.12	82.18	105.20	-23.02	peak	V
5925	51.05	-0.12	50.93	68.20	-17.27	peak	V

Worse case mode:		802.11n40		Test channel:		38	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	54.97	-0.12	54.85	74.00	-19.15	peak	H
	40.43	-0.12	40.31	54.00	-13.69	AV	H
5150	54.76	-0.12	54.64	74.00	-19.36	peak	V
	38.04	-0.12	37.92	54.00	-16.08	AV	V

Worse case mode:		802.11n40		Test channel:		46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	53.69	-0.12	53.57	74.00	-20.43	peak	H
	40.38	-0.12	40.26	54.00	-13.74	AV	H
5250	55.77	-0.12	55.65	74.00	-18.35	peak	V
	40.73	-0.12	40.61	54.00	-13.39	AV	V

Worse case mode:		802.11n40		Test channel:		151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	49.67	-0.12	49.55	68.20	-18.65	peak	H
5700	87.47	-0.12	87.35	105.20	-17.85	peak	H
5720	87.73	-0.12	87.61	110.80	-23.19	peak	H
5725	96.11	-0.12	95.99	122.20	-26.21	peak	H
5650	47.25	-0.12	47.13	68.20	-21.07	peak	V
5700	87.64	-0.12	87.52	105.20	-17.68	peak	V
5720	89.87	-0.12	89.75	110.80	-21.05	peak	V
5725	93.43	-0.12	93.31	122.20	-28.89	peak	V

Worse case mode:		802.11n40		Test channel:		159	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	105.67	-0.12	105.55	122.20	-16.65	peak	H
5855	89.11	-0.12	88.99	110.80	-21.81	peak	H
5875	84.98	-0.12	84.86	105.20	-20.34	peak	H
5925	53.40	-0.12	53.28	68.20	-14.92	peak	H
5850	101.83	-0.12	101.71	122.20	-20.49	peak	V
5855	86.14	-0.12	86.02	110.80	-24.78	peak	V
5875	85.93	-0.12	85.81	105.20	-19.39	peak	V
5925	50.93	-0.12	50.81	68.20	-17.39	peak	V

Worse case mode:		802.11ac20		Test channel:		36	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	52.81	-0.12	52.69	74.00	-21.31	peak	H
	40.54	-0.12	40.42	54.00	-13.58	AV	H
5150	54.87	-0.12	54.75	74.00	-19.25	peak	V
	39.19	-0.12	39.07	54.00	-14.93	AV	V

Worse case mode:		802.11ac20		Test channel:		48	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	51.73	-0.12	51.61	74.00	-22.39	peak	H
	40.03	-0.12	39.91	54.00	-14.09	AV	H
5250	54.65	-0.12	54.53	74.00	-19.47	peak	V
	38.52	-0.12	38.40	54.00	-15.60	AV	V

Worse case mode:		802.11ac20		Test channel:		149	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	50.41	-0.12	50.29	68.20	-17.91	peak	H
5700	87.53	-0.12	87.41	105.20	-17.79	peak	H
5720	88.09	-0.12	87.97	110.80	-22.83	peak	H
5725	96.78	-0.12	96.66	122.20	-25.54	peak	H
5650	46.61	-0.12	46.49	68.20	-21.71	peak	V
5700	85.73	-0.12	85.61	105.20	-19.59	peak	V
5720	90.44	-0.12	90.32	110.80	-20.48	peak	V
5725	92.96	-0.12	92.84	122.20	-29.36	peak	V

Worse case mode:		802.11ac20		Test channel:		165	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	102.93	-0.12	102.81	122.20	-19.39	peak	H
5855	87.75	-0.12	87.63	110.80	-23.17	peak	H
5875	83.29	-0.12	83.17	105.20	-22.03	peak	H
5925	50.58	-0.12	50.46	68.20	-17.74	peak	H
5850	102.39	-0.12	102.27	122.20	-19.93	peak	V
5855	89.64	-0.12	89.52	110.80	-21.28	peak	V
5875	83.79	-0.12	83.67	105.20	-21.53	peak	V
5925	52.67	-0.12	52.55	68.20	-15.65	peak	V

Worse case mode:		802.11ac40		Test channel:		38	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	52.87	-0.12	52.75	74.00	-21.25	peak	H
	38.51	-0.12	38.39	54.00	-15.61	AV	H
5150	52.33	-0.12	52.21	74.00	-21.79	peak	V
	40.37	-0.12	40.25	54.00	-13.75	AV	V

Worse case mode:		802.11ac40		Test channel:		46	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5250	53.15	-0.12	53.03	74.00	-20.97	peak	H
	39.25	-0.12	39.13	54.00	-14.87	AV	H
5250	55.02	-0.12	54.90	74.00	-19.10	peak	V
	39.44	-0.12	39.32	54.00	-14.68	AV	V

Worse case mode:		802.11 ac40		Test channel:		151	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	51.55	-0.12	51.43	68.20	-16.77	peak	H
5700	87.56	-0.12	87.44	105.20	-17.76	peak	H
5720	90.41	-0.12	90.29	110.80	-20.51	peak	H
5725	97.37	-0.12	97.25	122.20	-24.95	peak	H
5650	47.11	-0.12	46.99	68.20	-21.21	peak	V
5700	87.77	-0.12	87.65	105.20	-17.55	peak	V
5720	87.02	-0.12	86.90	110.80	-23.90	peak	V
5725	95.89	-0.12	95.77	122.20	-26.43	peak	V

Worse case mode:		802.11n20		Test channel:		159	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5850	103.24	-0.12	103.12	122.20	-19.08	peak	H
5855	88.39	-0.12	88.27	110.80	-22.53	peak	H
5875	85.53	-0.12	85.41	105.20	-19.79	peak	H
5925	52.47	-0.12	52.35	68.20	-15.85	peak	H
5850	100.27	-0.12	100.15	122.20	-22.05	peak	V
5855	89.07	-0.12	88.95	110.80	-21.85	peak	V
5875	82.47	-0.12	82.35	105.20	-22.85	peak	V
5925	50.63	-0.12	50.51	68.20	-17.69	peak	V

Worse case mode:		802.11ac80		Test channel:		42	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5150	53.85	-0.12	53.73	74.00	-20.27	peak	H
	39.84	-0.12	39.72	54.00	-14.28	AV	H
5150	54.24	-0.12	54.12	74.00	-19.88	peak	V
	40.63	-0.12	40.51	54.00	-13.49	AV	V
5250	51.58	-0.12	51.46	74.00	-22.54	peak	H
	41.77	-0.12	41.65	54.00	-12.35	AV	H
5250	56.15	-0.12	56.03	74.00	-17.97	peak	V
	37.26	-0.12	37.14	54.00	-16.86	AV	V

Worse case mode:		802.11ac80		Test channel:		155	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V
5650	47.84	-0.12	47.72	68.20	-20.48	peak	H
5700	86.55	-0.12	86.43	105.20	-18.77	peak	H
5720	90.86	-0.12	90.74	110.80	-20.06	peak	H
5725	98.18	-0.12	98.06	122.20	-24.14	peak	H
5650	49.92	-0.12	49.80	68.20	-18.40	peak	V
5700	87.23	-0.12	87.11	105.20	-18.09	peak	V
5720	88.23	-0.12	88.11	110.80	-22.69	peak	V
5725	95.94	-0.12	95.82	122.20	-26.38	peak	V
5850	104.42	-0.12	104.30	122.20	-17.90	peak	H
5855	88.29	-0.12	88.17	110.80	-22.63	peak	H
5875	82.12	-0.12	82.00	105.20	-23.20	peak	H
5925	53.48	-0.12	53.36	68.20	-14.84	peak	H
5850	102.02	-0.12	101.90	122.20	-20.30	peak	V
5855	90.20	-0.12	90.08	110.80	-20.72	peak	V
5875	84.48	-0.12	84.36	105.20	-20.84	peak	V
5925	53.88	-0.12	53.76	68.20	-14.44	peak	V

Factor =Antenna Factor + Cable Loss – Pre-amplifier,

5. POWER SPECTRAL DENSITY TEST

Test Requirement:	FCC 47 CFR Part 15 Subpart E Section 15.407 (a)
Test Method:	KDB 789033 D02 v02r01

5.1 APPLIED PROCEDURES / LIMIT

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

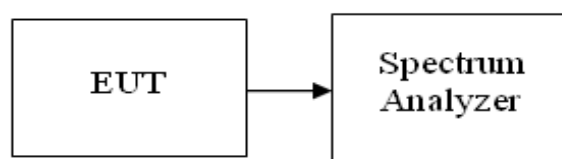
LIMIT:	U-NII-1	11DBM/MHZ
	U-NII-3	30DBM/500KHZ

5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP

5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC7.4V
Test Mode :	TX frequency band 1&band4		

BAND1

802.11 Mode	Channel No.	Frequency [MHz]	Measured Power Spectral Density [dBm/MHz]		Power Spectral Density Limit [dBm/MHz]	MIMO/CDD Power Density [dBm/MHz]	MIMO/CDD Power Density Limit [dBm/MHz]
			ANT1	ANT2			
a	36	5180	4.897	4.056	11	/	/
	40	5200	5.977	3.418	11	/	/
	48	5240	5.799	3.43	11	/	/
n (20MHz)	36	5180	5.874	3.392	11	7.818	10.99
	40	5200	6.054	2.918	11	7.773	10.99
	48	5240	5.143	3.183	11	7.283	10.99
n (40MHz)	38	5190	2.867	0.17	11	4.735	10.99
	46	5230	2.663	-0.289	11	4.443	10.99
ac (20MHz)	36	5180	5.644	3.558	11	7.735	10.99
	40	5200	5.757	3.283	11	7.704	10.99
	48	5240	5.269	2.476	11	7.104	10.99
ac(40MHz)	38	5190	2.782	0.442	11	4.778	10.99
	46	5230	1.814	-0.12	11	3.964	10.99
ac(80MHz)	42	5210	-1.782	-3.565	11	0.428	10.99

NOTE: PSD limit (MIMO)= limit – (6.01-6)=11-0.01=10.99

BAND 4

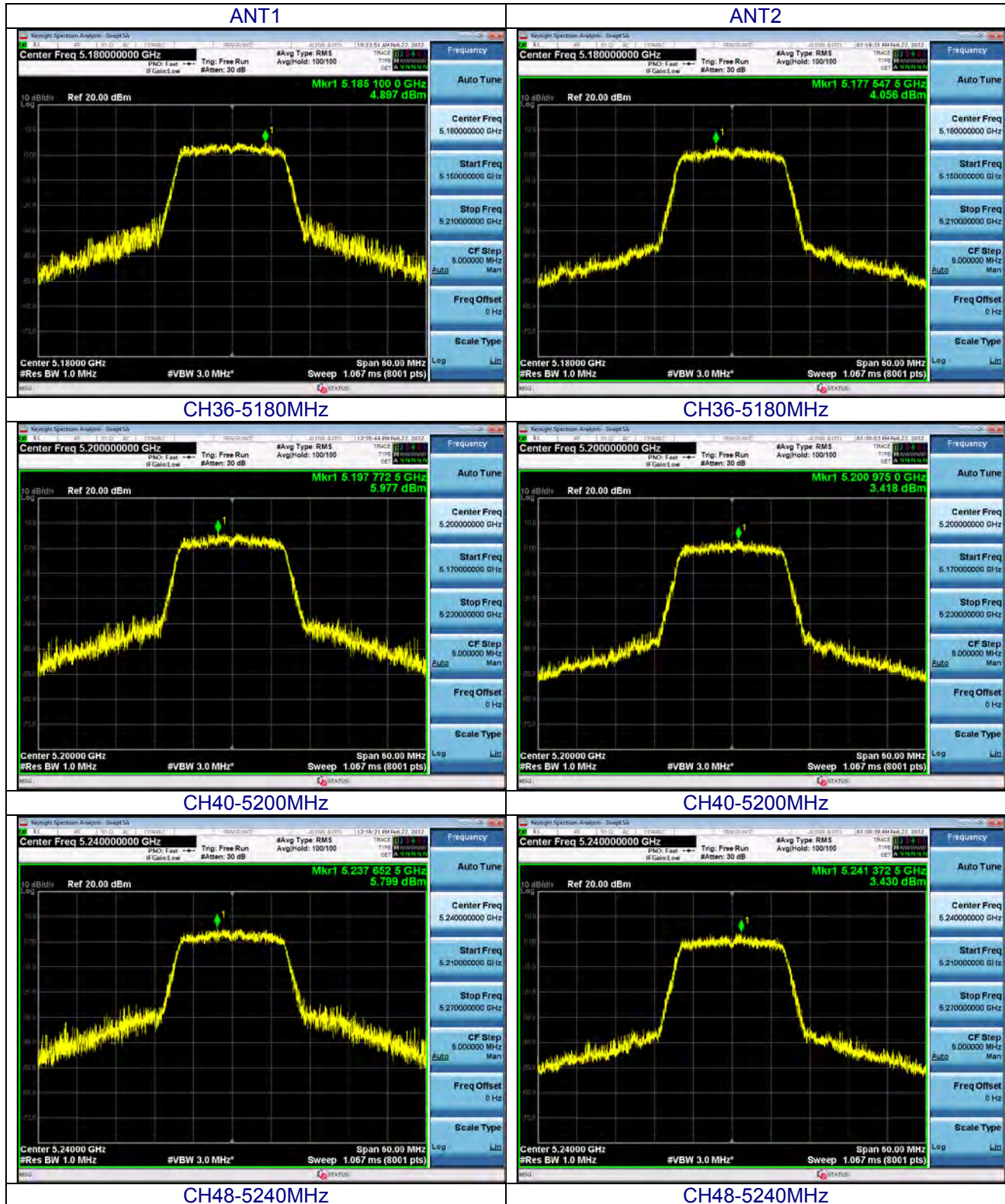
802.11 Mode	Channel No.	Frequency [MHz]	Meas PSD [dBm/510kHz]		Meas PSD [dBm/500kHz]		MIMO/CDD Power Density Limit [dBm/500kHz]
			ANT1	ANT2	ANT1	ANT2	
a	149	5745	0.932	0.666	0.846	0.580	30
	157	5785	0.971	0.082	0.885	-0.004	30
	165	5825	-0.114	-0.419	-0.200	-0.505	30
n (20MHz)	149	5745	1.363	-1.061	1.277	-1.147	30
	157	5785	0.816	-0.069	0.730	-0.155	30
	165	5825	0.284	-0.896	0.198	-0.982	30
n (40MHz)	151	5755	-2.308	-3.542	-2.394	-3.628	30
	159	5795	-2.694	-2.458	-2.780	-2.544	30
ac (20MHz)	149	5745	0.705	0.192	0.619	0.106	30
	157	5785	0.206	0.04	0.120	-0.046	30
	165	5825	0.77	-0.302	0.684	-0.388	30
ac(40MHz)	151	5755	-2.3	-2.167	-2.386	-2.253	30
	159	5795	-2.873	-2.978	-2.959	-3.064	30
ac(80MHz)	155	5775	-6.579	-6.043	-6.665	-6.129	30

Note: Covert PSD [dBm/500KHz]= PSD[dBm/510KHz]+10*log(500/510)

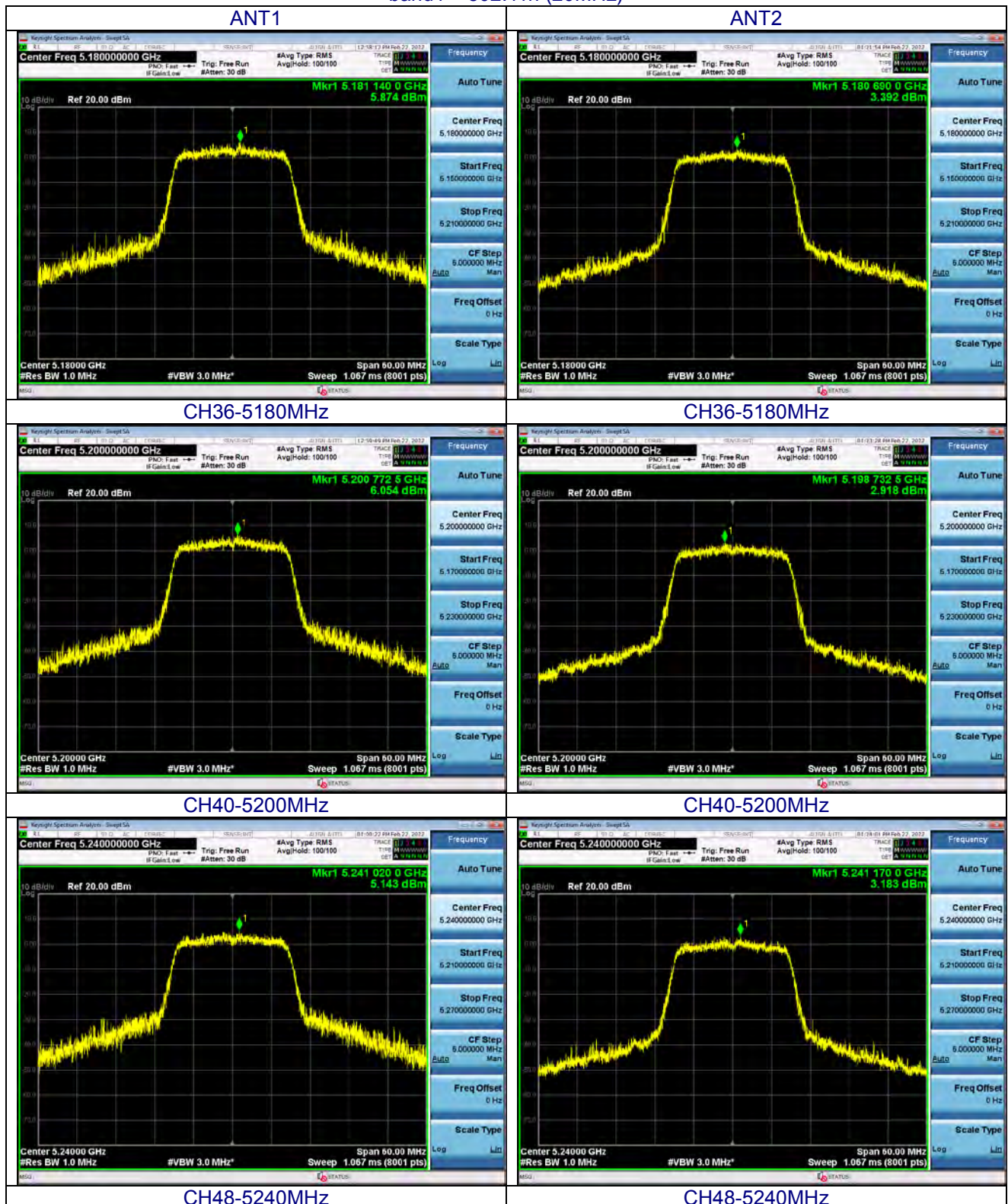
802.11 Mode	Channel No.	Frequency [MHz]	Meas PSD [dBm/500kHz]		MIMO/CDD Power Density [dBm/500kHz]	MIMO/CDD Power Density Limit [dBm/500kHz]
			ANT1	ANT2		
a	149	5745	0.846	0.580	/	/
	157	5785	0.885	-0.004	/	/
	165	5825	-0.200	-0.505	/	/
n (20MHz)	149	5745	1.277	-1.147	3.242	29.99
	157	5785	0.730	-0.155	3.320	29.99
	165	5825	0.198	-0.982	2.658	29.99
n (40MHz)	151	5755	-2.394	-3.628	0.043	29.99
	159	5795	-2.780	-2.544	0.350	29.99
ac (20MHz)	149	5745	0.619	0.106	3.380	29.99
	157	5785	0.120	-0.046	3.048	29.99
	165	5825	0.684	-0.388	3.191	29.99
ac(40MHz)	151	5755	-2.386	-2.253	0.691	29.99
	159	5795	-2.959	-3.064	-0.001	29.99
ac(80MHz)	155	5775	-6.665	-6.129	-3.378	29.99

NOTE: PSD limit (MIMO)=limit – (6.01-6)=30-0.01=29.99

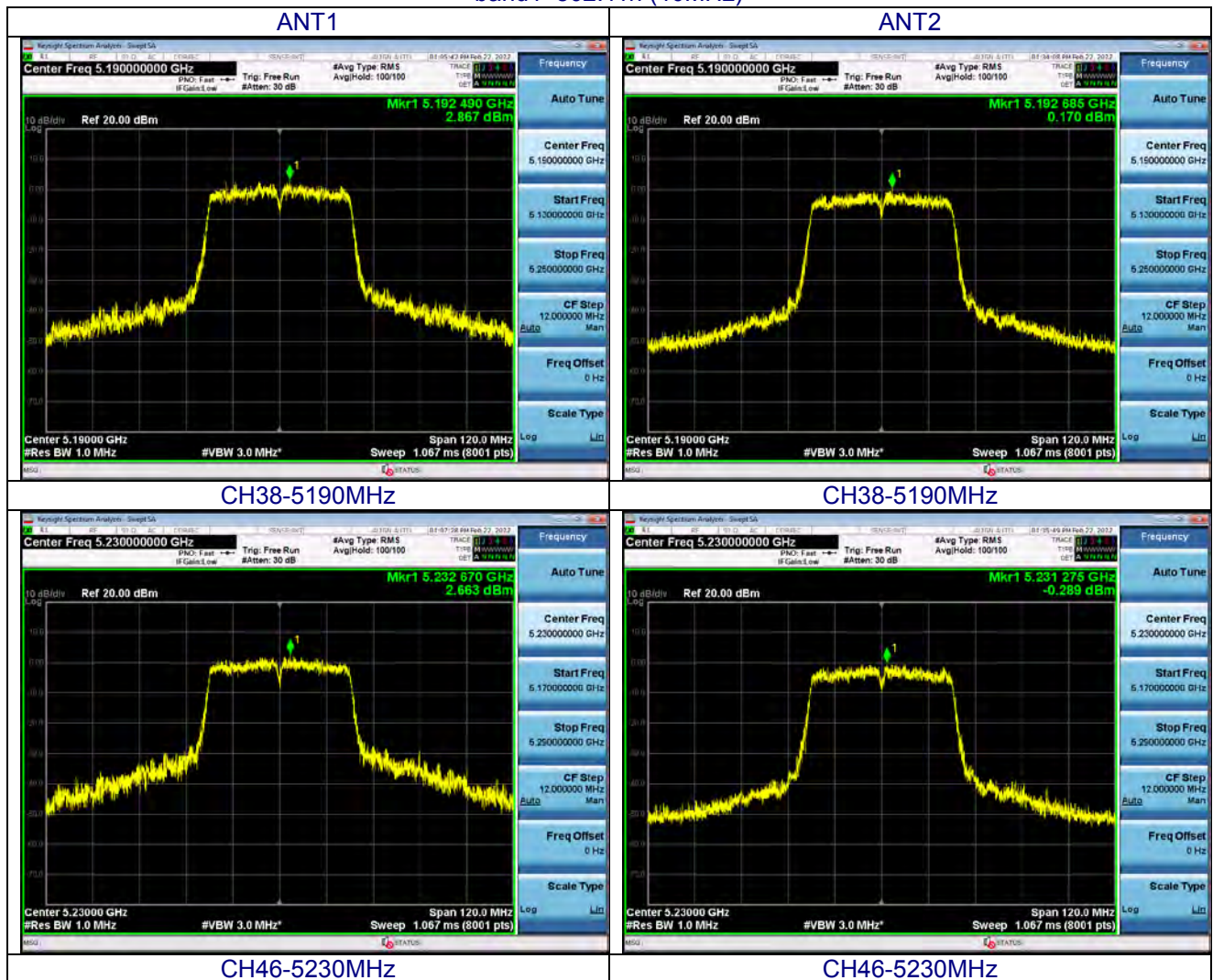
band1 – 802.11a



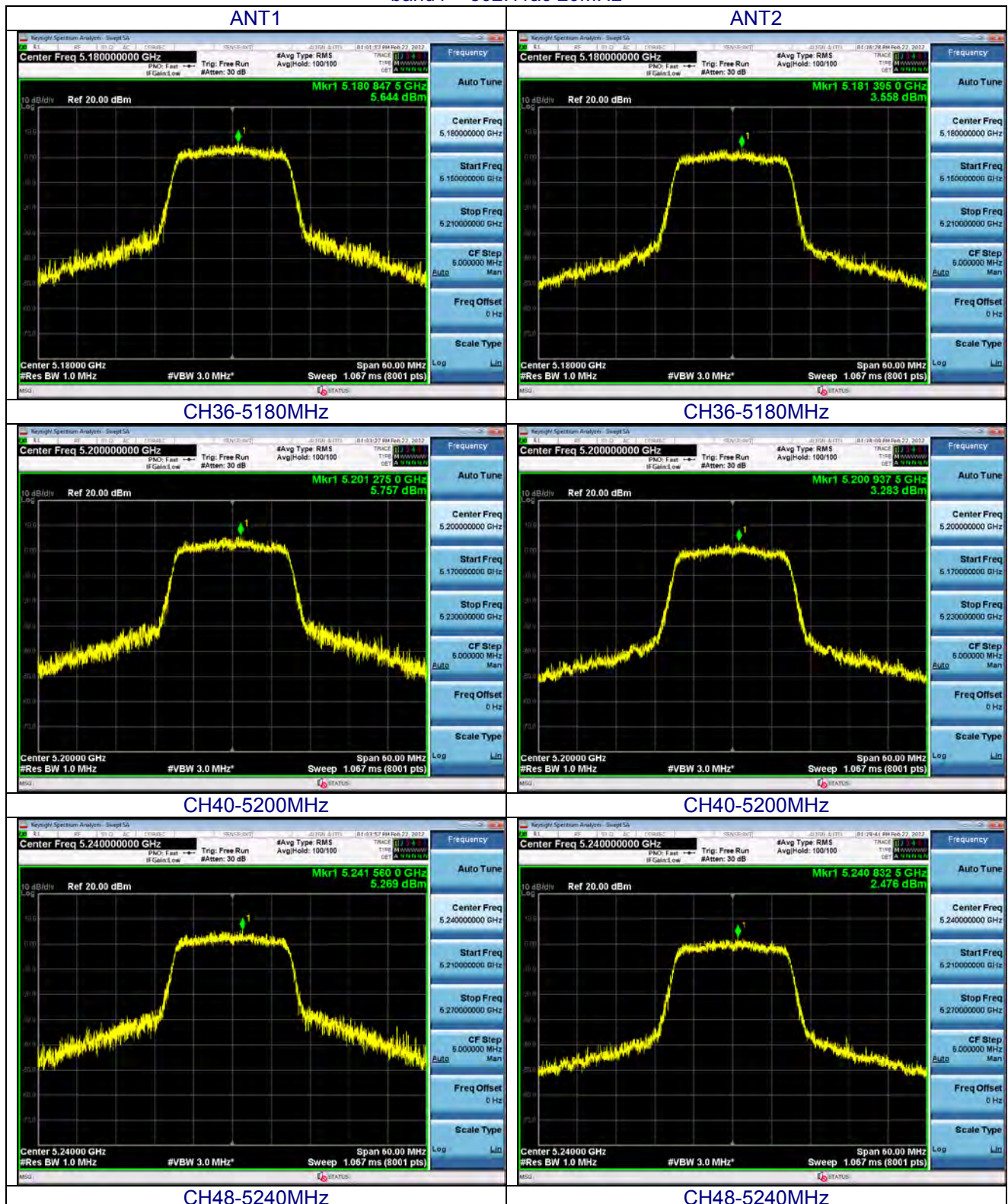
band1 – 802.11n (20MHz)



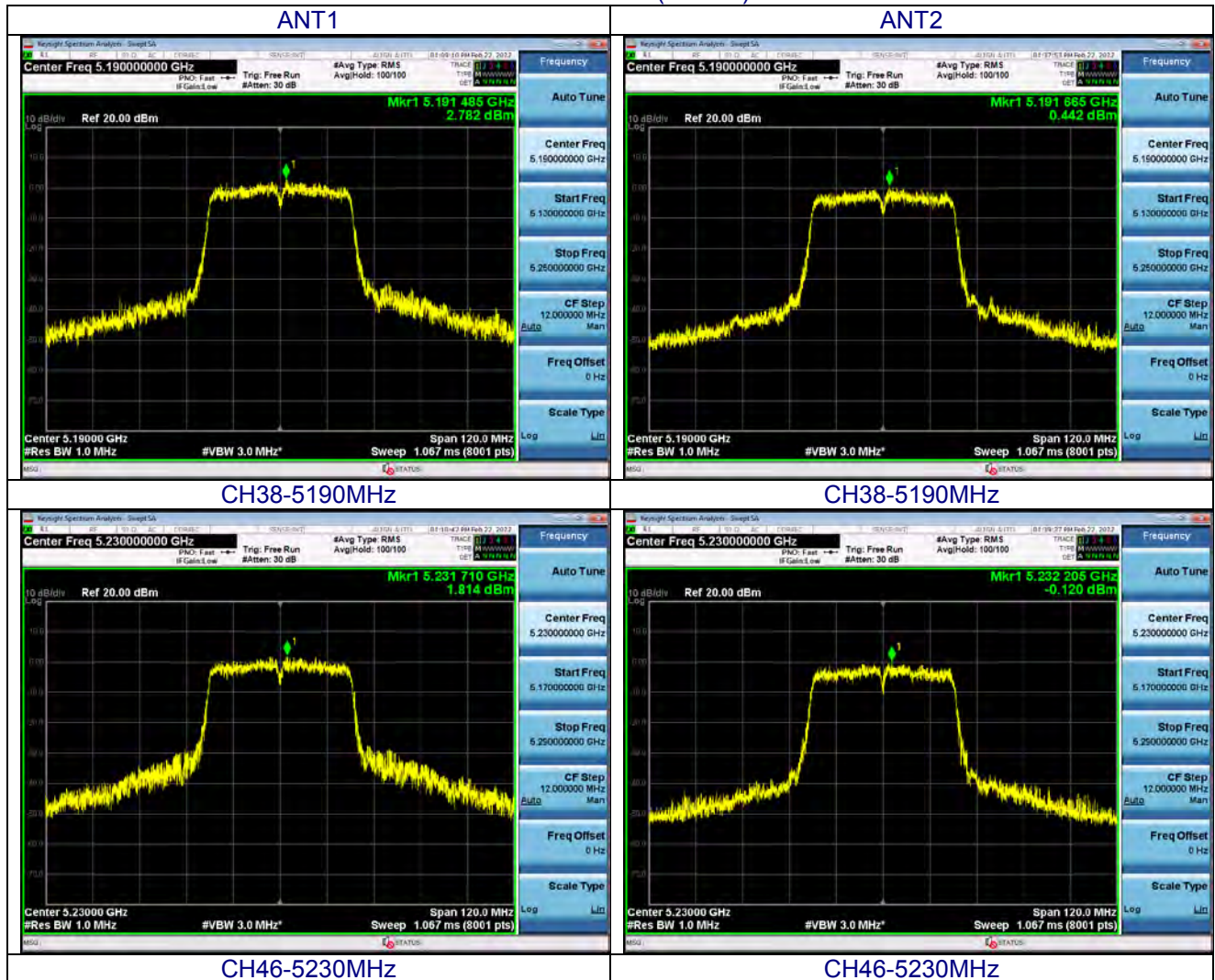
band1-802.11n (40MHz)



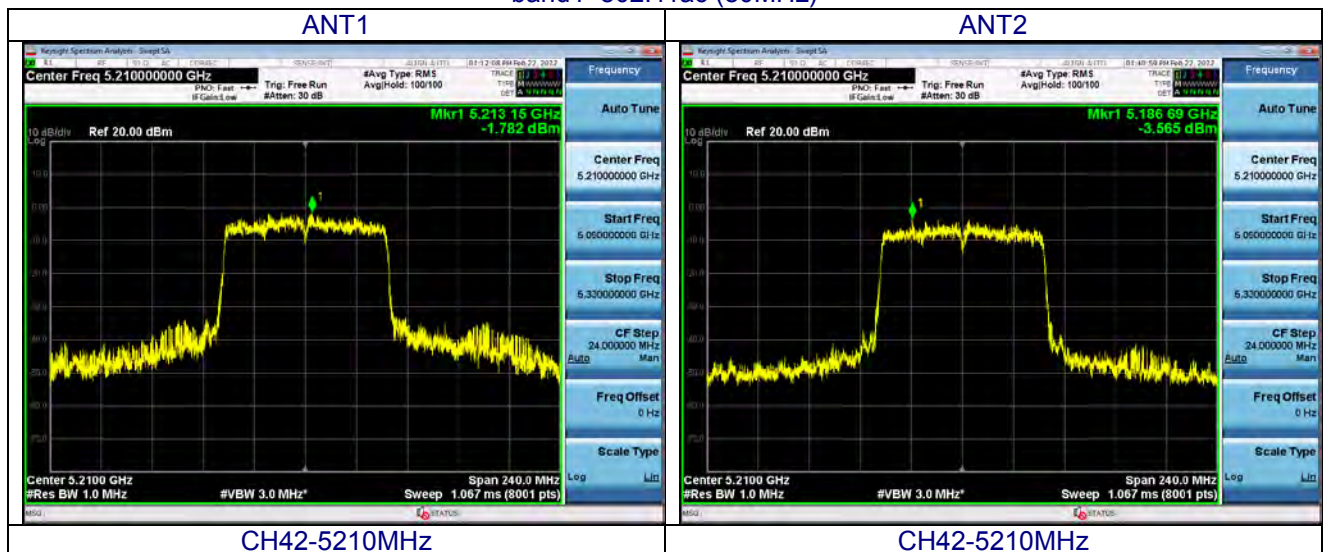
band1 – 802.11ac 20MHz



band1-802.11ac (40MHz)

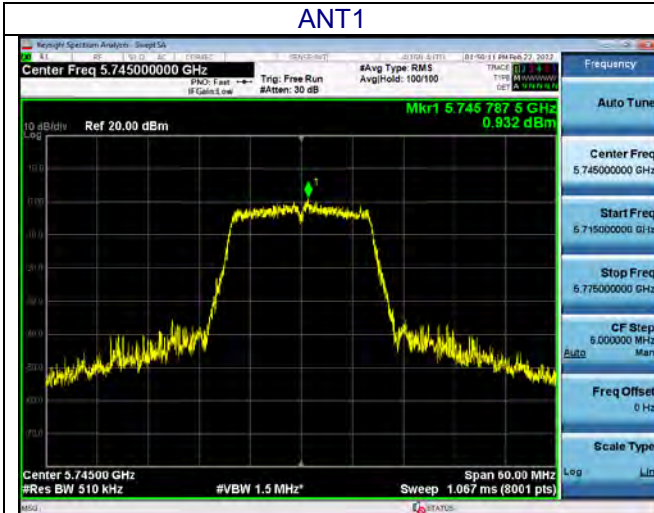


band1-802.11ac (80MHz)



Band 4-802.11a

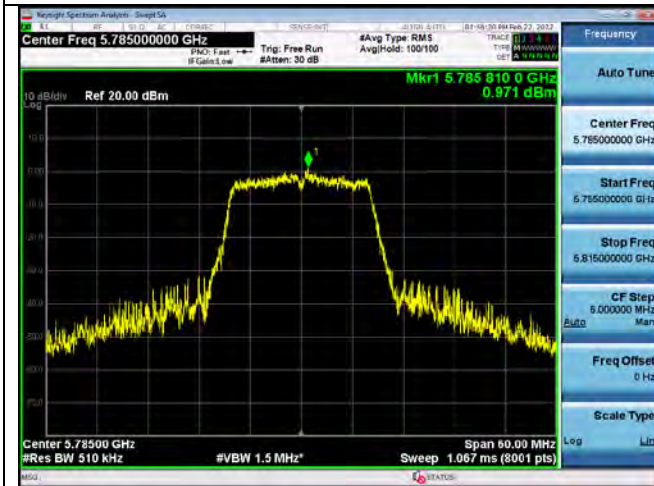
ANT1



ANT2



CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



CH165 -5825MHz



CH165 -5825MHz

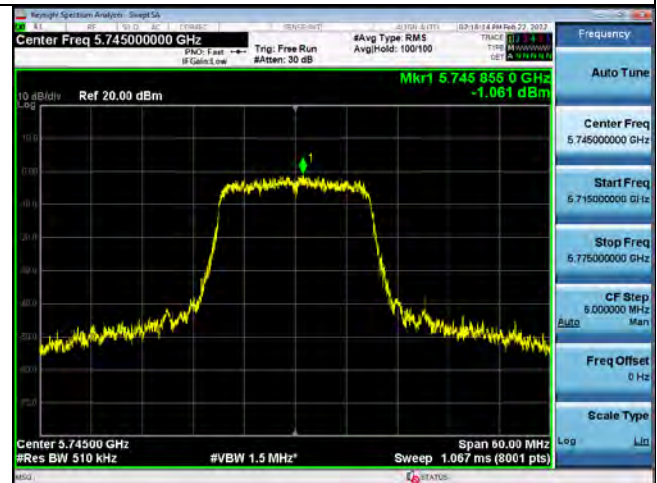


Band4-802.11n (20MHz)

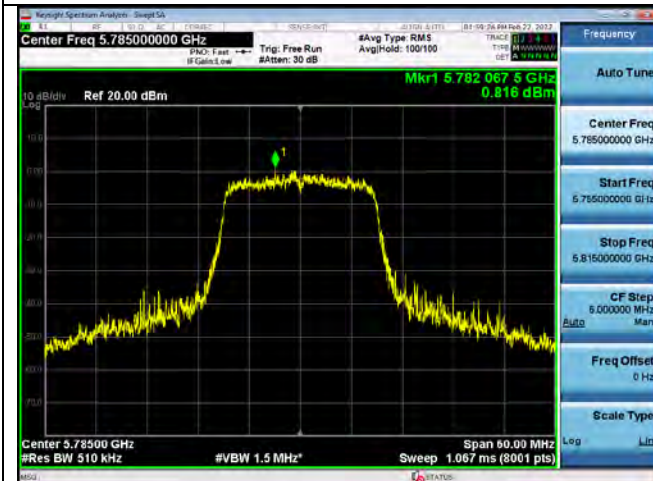
ANT1



ANT2



CH149 -5745MHz



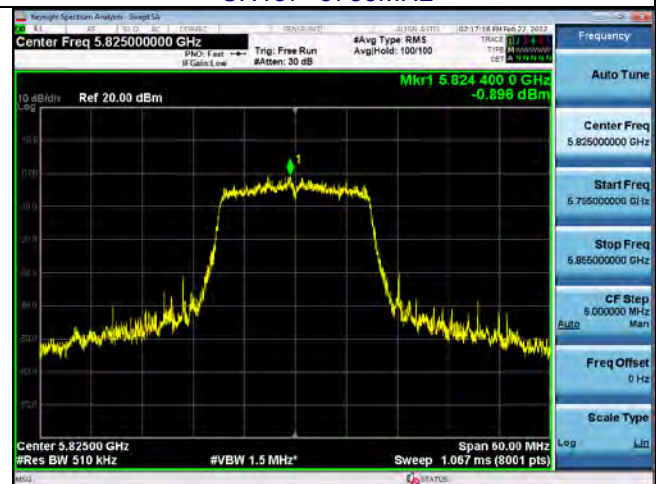
CH149 -5745MHz



CH157 -5785MHz



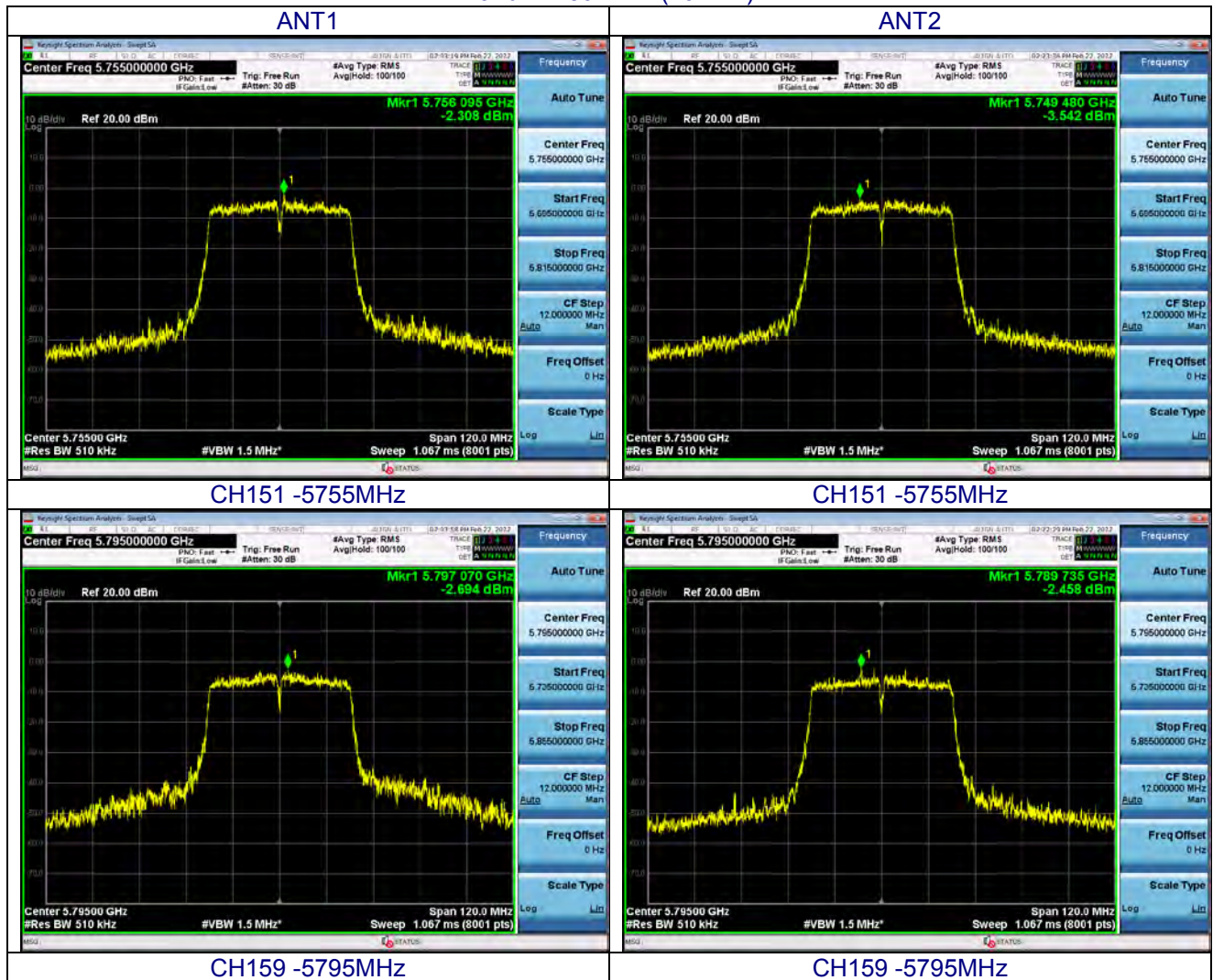
CH157 -5785MHz



CH165 -5825MHz

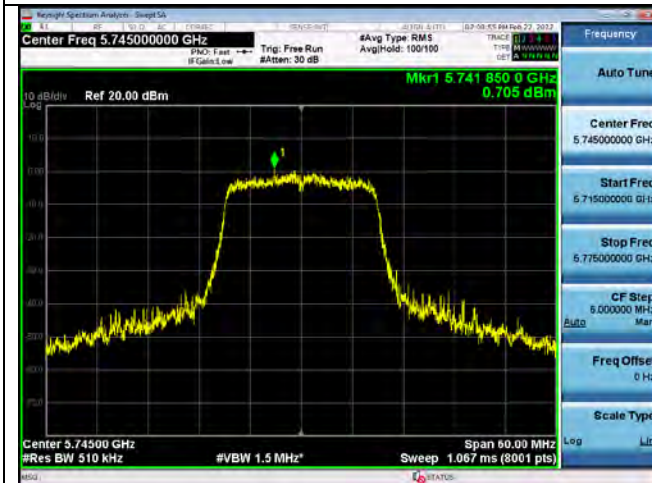
CH165 -5825MHz

Band 4 – 802.11n (40MHz)

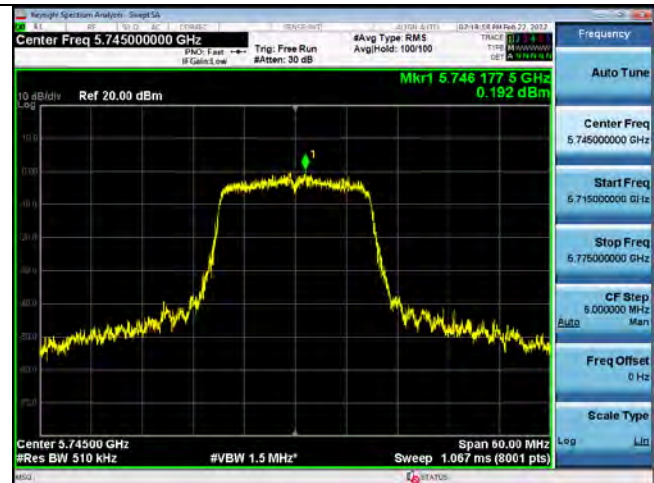


Band4-802.11ac (20MHz)

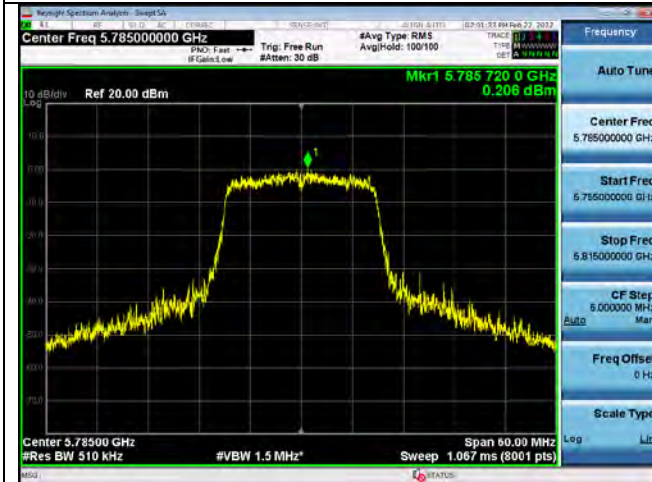
ANT1



ANT2



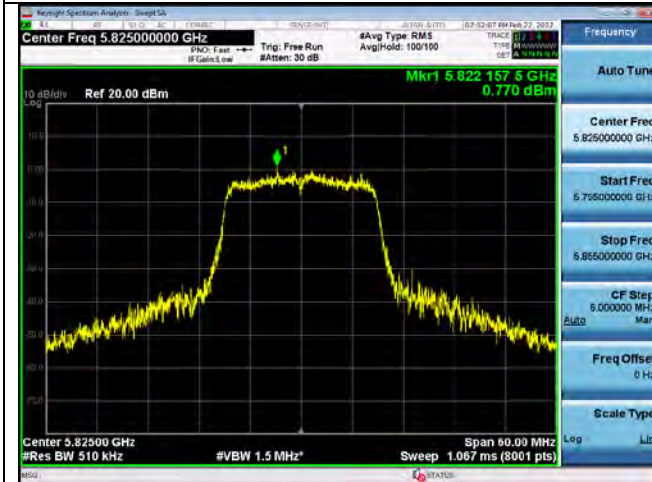
CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



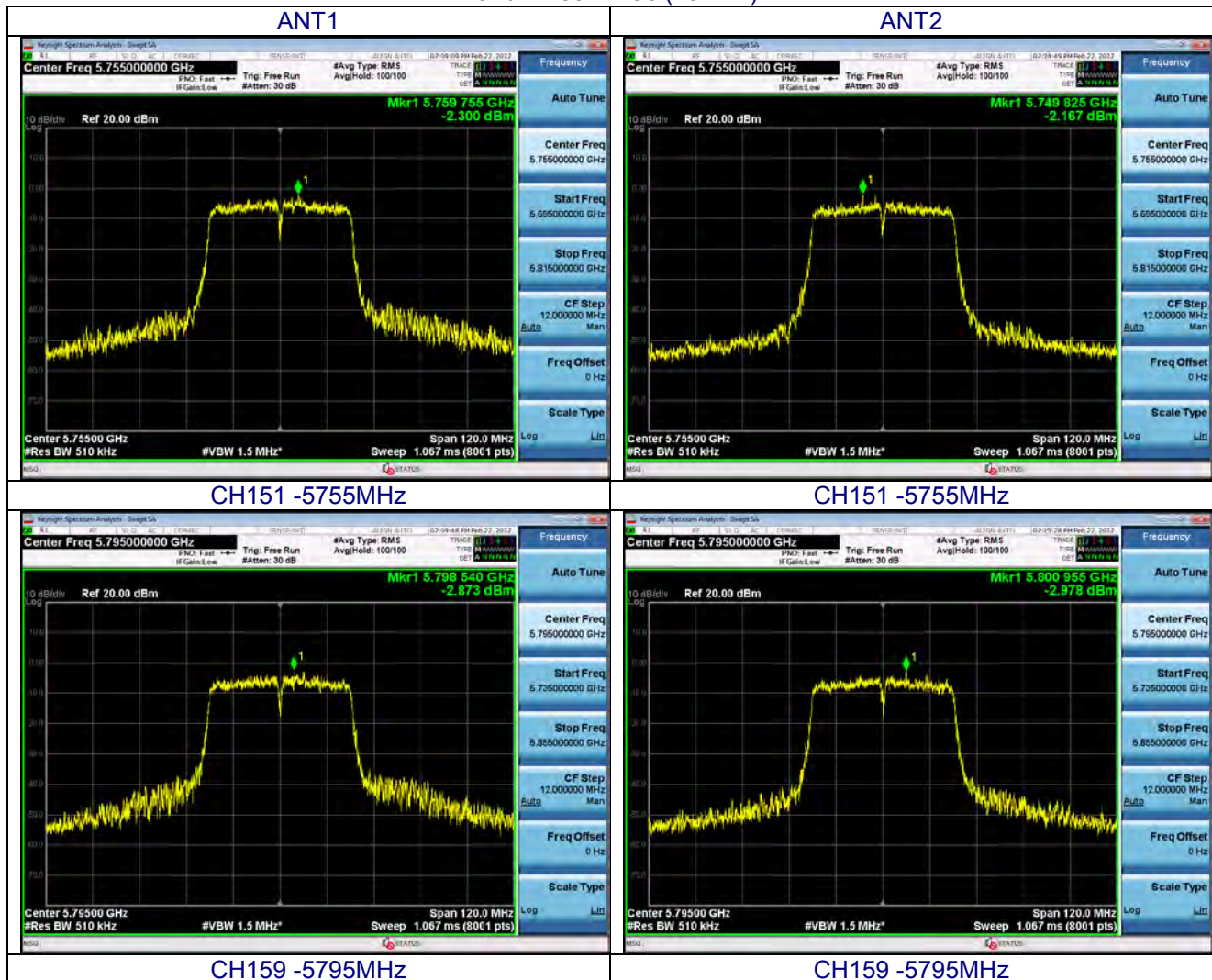
CH157 -5785MHz



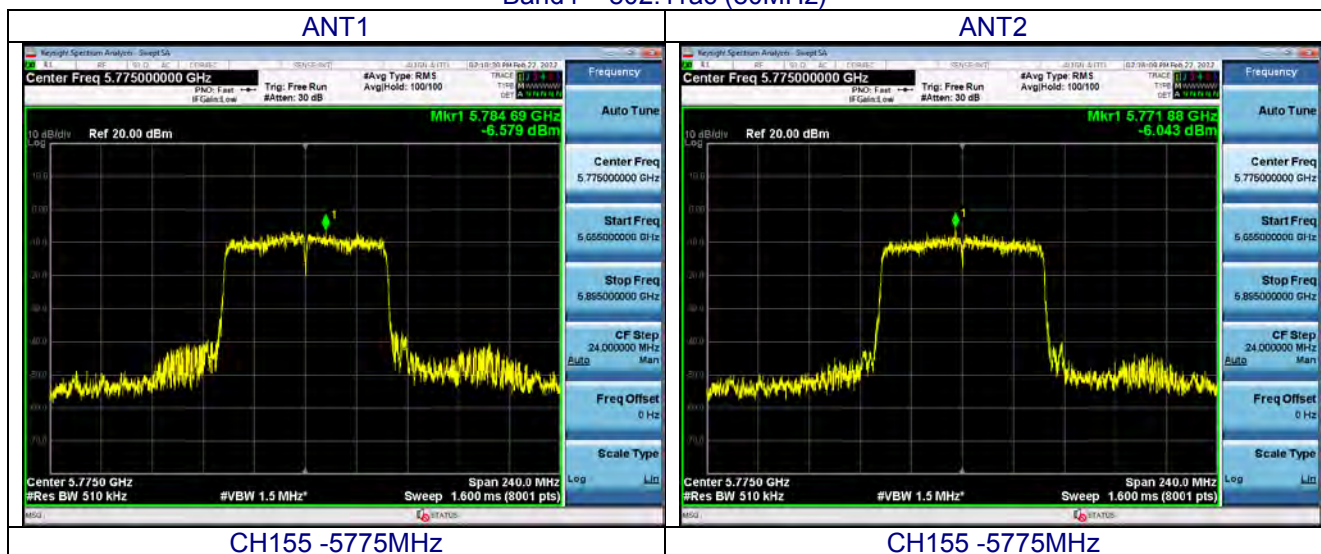
CH165 -5825MHz

CH165 -5825MHz

Band4 – 802.11ac (40MHz)



Band4 – 802.11ac (80MHz)



6. -26 DB&6DBM EMISSION BANDWIDTH

Test Requirement:	Part 15 Subpart C Section 15.407 (e)
Test Method:	KDB 789033 D02 v02r01

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15.407 (e)		
Bandwidth		
Limit	Band1	N/A
	Band4	$\geq$ 500 kHz

6.2 TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.

Remove the antenna from the EUT and then connect a low-loss RF cable from the antenna port to the spectrum analyzer.

Set the spectrum analyzers RBW = approximately 1% of the emission bandwidth, VBW > RBW, Detector = Peak, Span > 26dB bandwidth, and Sweep = auto, Trace mode = max hold.

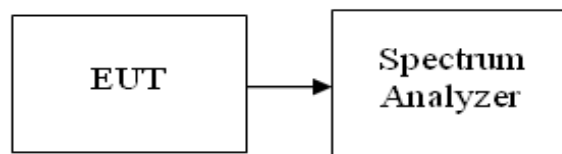
Measure the maximum width of the emission that is 26dB down from the maximum of the emission.

Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Repeat until all the rest channels were investigated.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP**6.5 EUT OPERATION CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC7.4V
Test Mode :	TX		

BAND 1

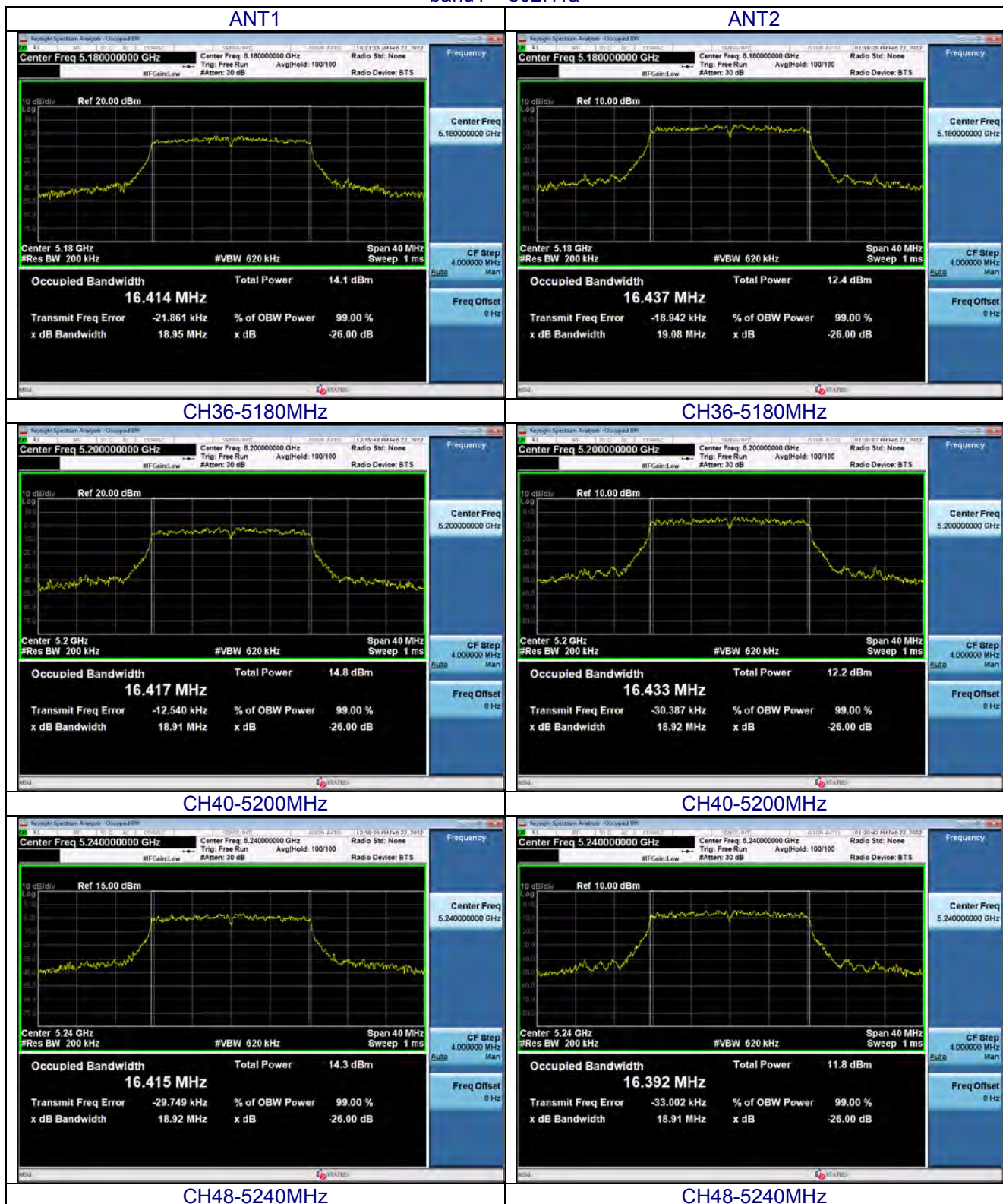
802.11 Mode	Channel No.	Frequency [MHz]	26dB Bandwidth [MHz]		99% Bandwidth [MHz]	
			ANT1	ANT2	ANT1	ANT2
a	36	5180	18.95	19.08	16.414	16.437
	40	5200	18.91	18.92	16.417	16.433
	48	5240	18.92	18.91	16.415	16.392
n (20MHz)	36	5180	19.22	19.22	17.406	17.452
	40	5200	19.40	19.39	17.420	17.497
	48	5240	19.40	19.54	17.508	17.473
n (40MHz)	38	5190	39.53	39.05	36.102	36.084
	46	5230	39.59	39.26	36.105	36.166
ac (20MHz)	36	5180	19.31	19.43	17.493	17.444
	40	5200	19.31	19.33	17.450	17.438
	48	5240	19.38	19.50	17.507	17.480
ac(40MHz)	38	5190	39.20	39.30	36.006	36.045
	46	5230	39.66	39.03	36.045	36.049
ac(80MHz)	42	5210	80.56	80.42	74.912	74.979

BAND 4

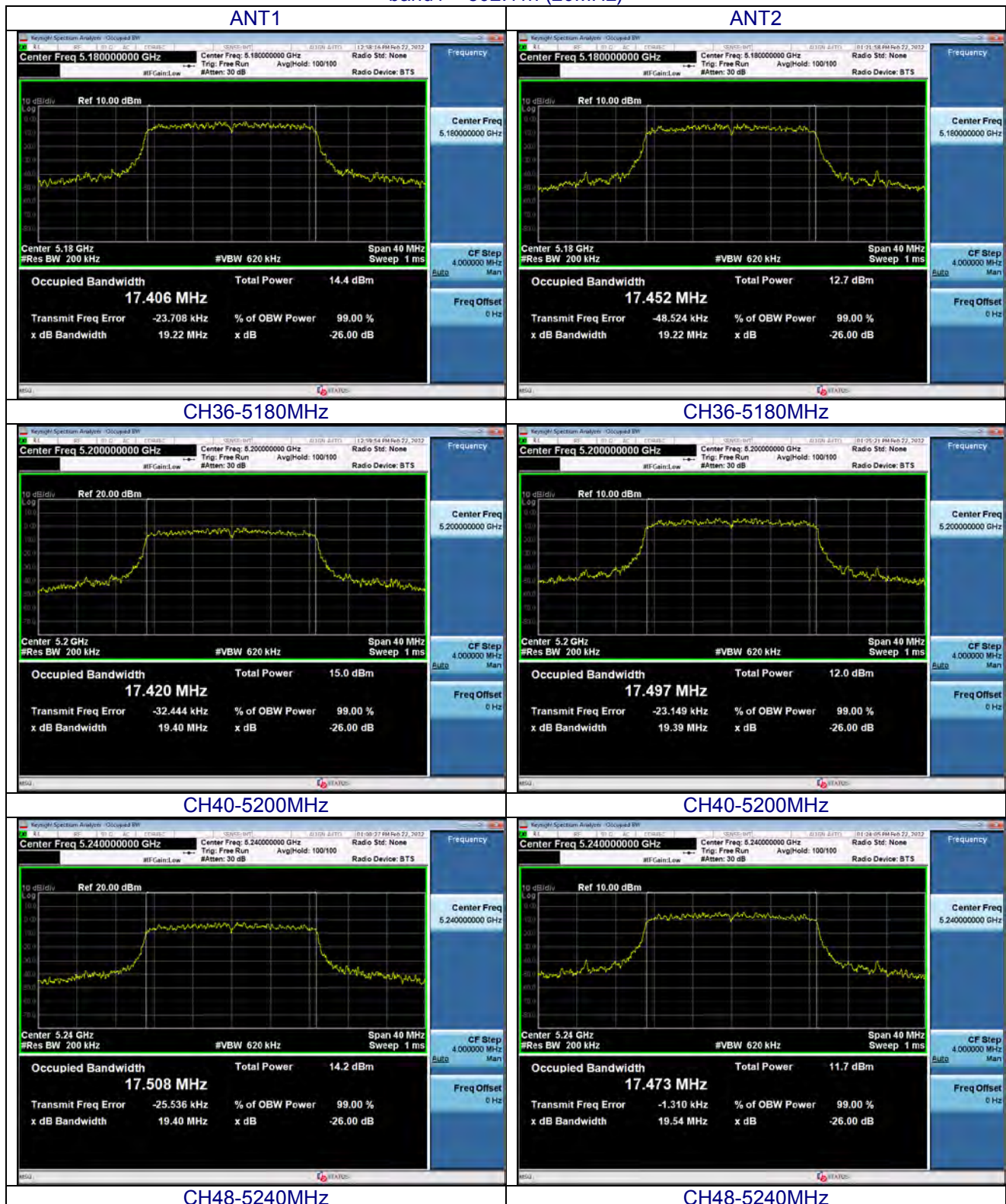
802.11 Mode	Channel No.	Frequency [MHz]	-6dbBandwidth [MHz]		Limit
			ANT1	ANT2	
a	149	5745	16.32	16.42	$\geq 500 \text{ kHz}$
	157	5785	16.29	16.41	
	165	5825	16.37	16.27	
n (20MHz)	149	5745	16.62	16.03	
	157	5785	16.91	16.97	
	165	5825	16.31	16.36	
n (40MHz)	151	5755	35.76	35.25	
	159	5795	35.71	35.25	
ac (20MHz)	149	5745	16.61	16.35	
	157	5785	16.28	15.70	
	165	5825	16.27	16.67	
ac(40MHz)	151	5755	35.63	35.66	
	159	5795	35.75	35.24	
ac(80MHz)	155	5775	75.26	75.26	

Test plot as follows:

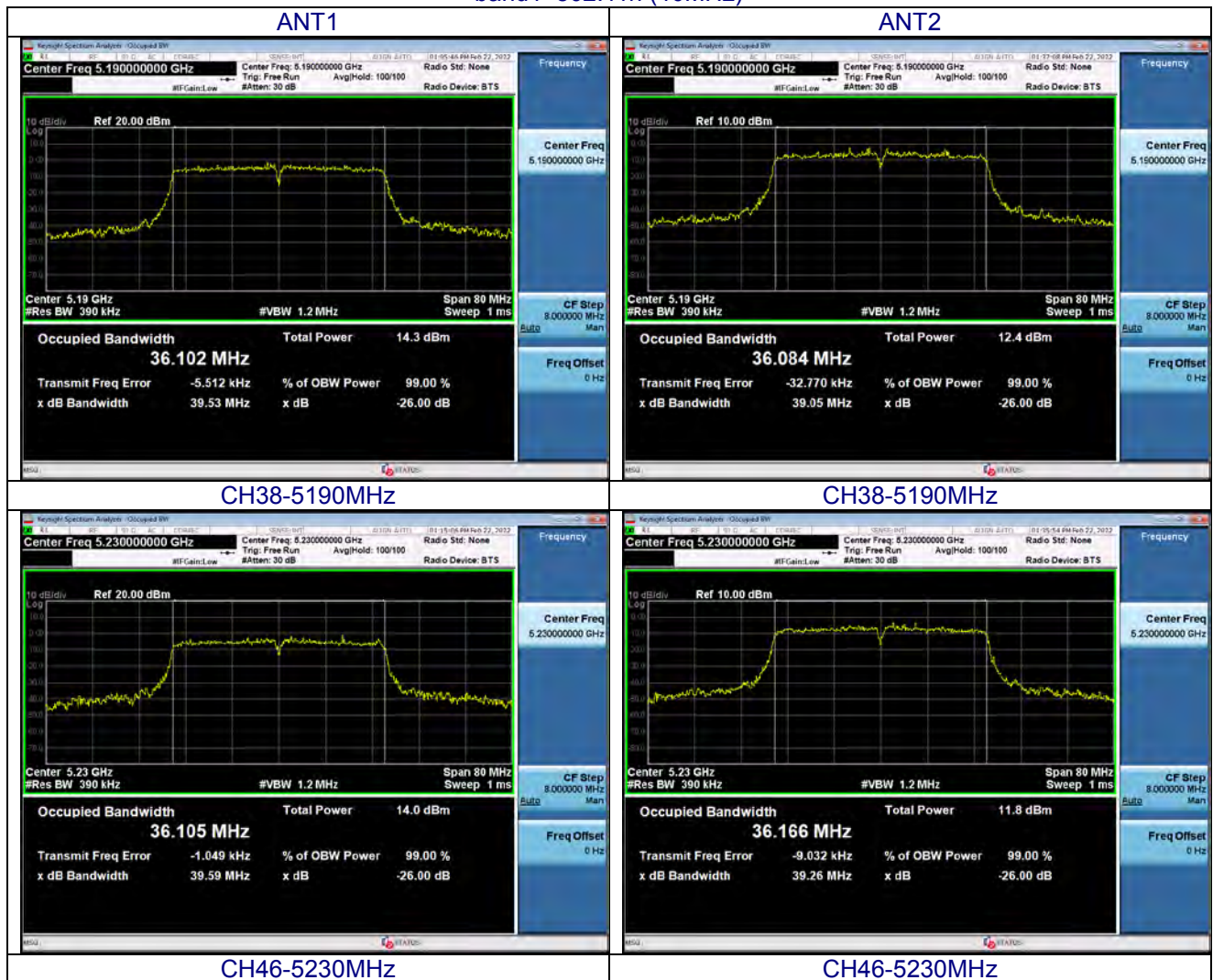
band1 – 802.11a



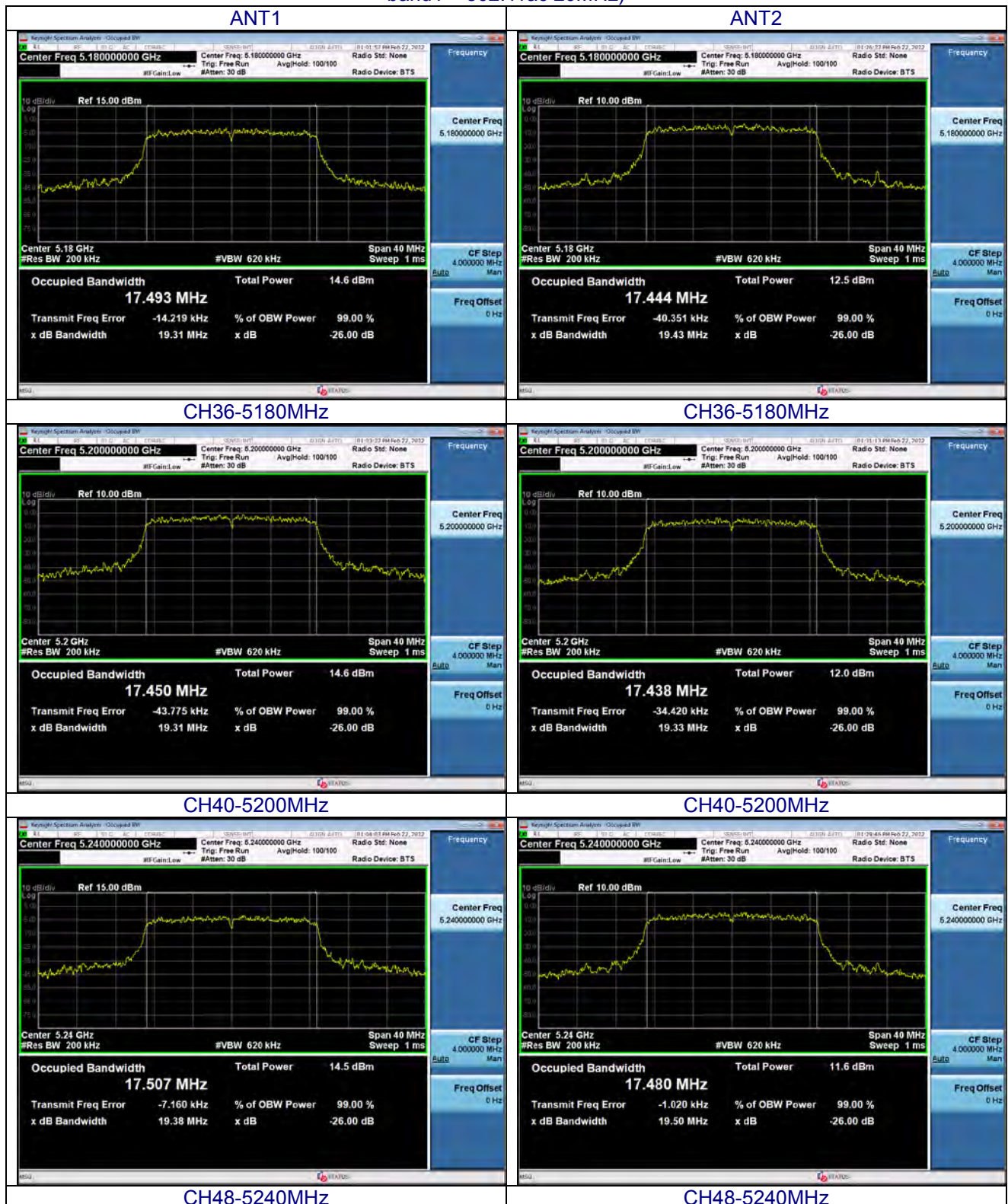
band1 – 802.11n (20MHz)



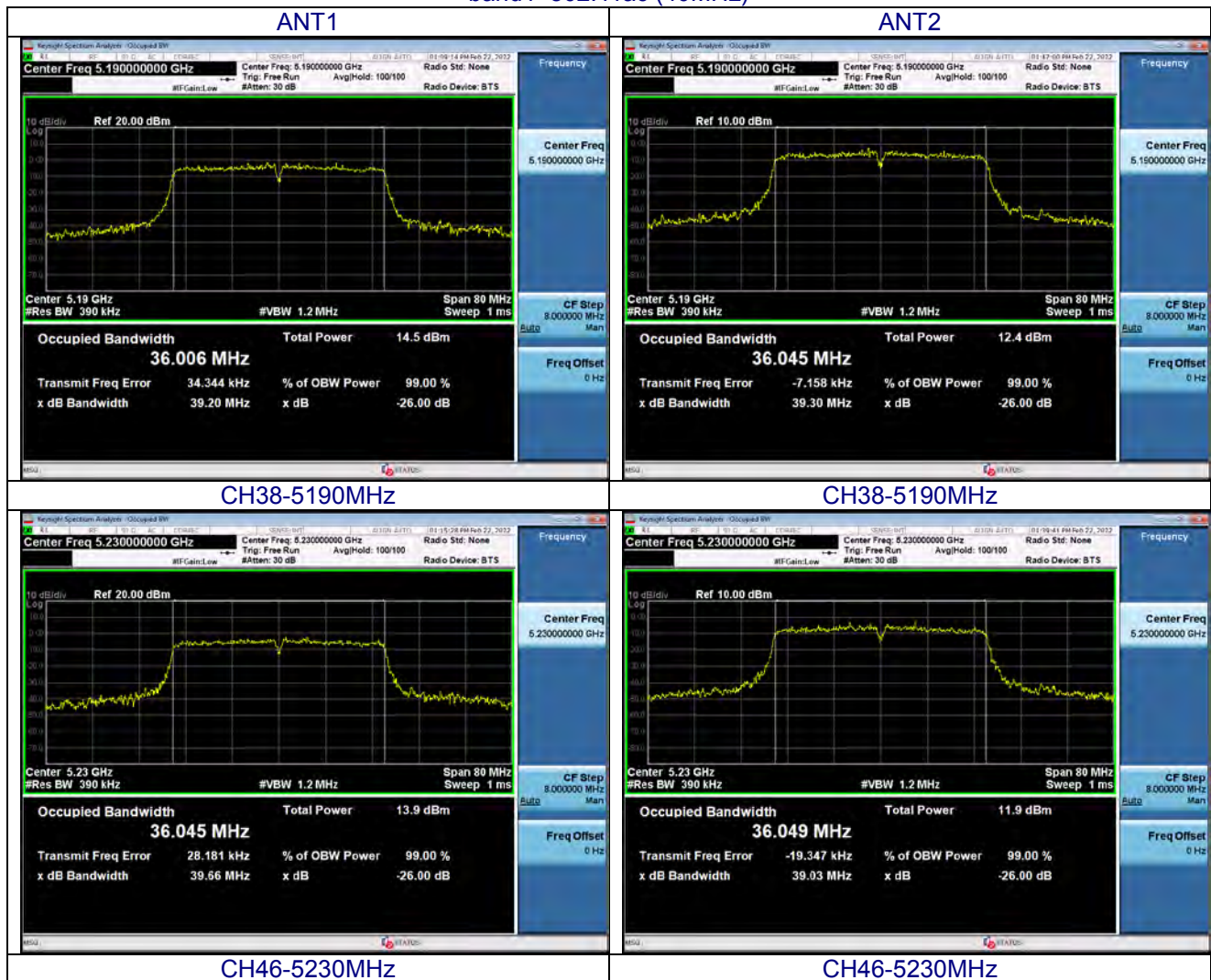
band1-802.11n (40MHz)



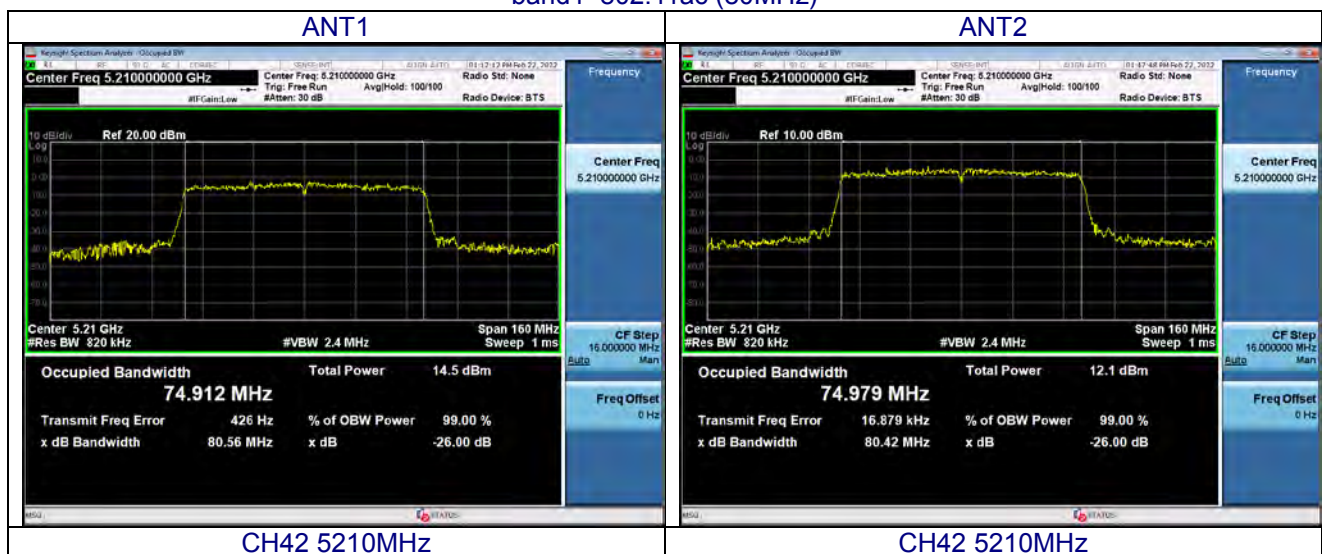
band1 – 802.11ac 20MHz)



band1-802.11ac (40MHz)



band1-802.11ac (80MHz)

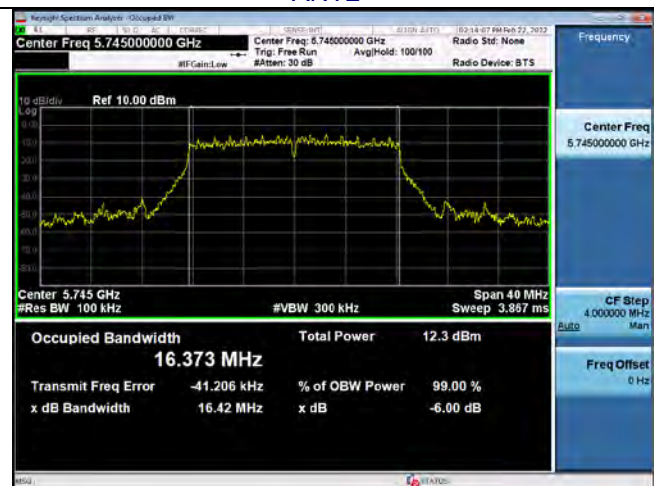


Band 4-802.11a

ANT1



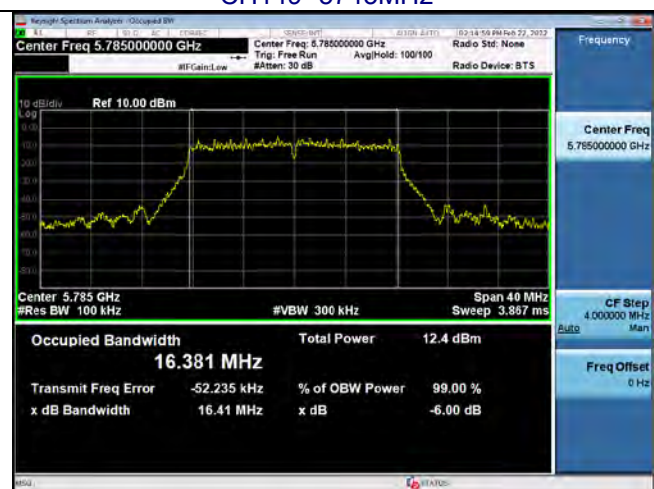
ANT2



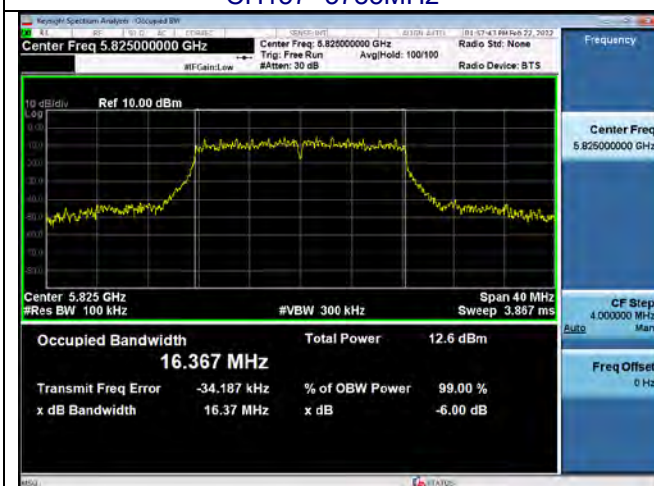
CH149 -5745MHz



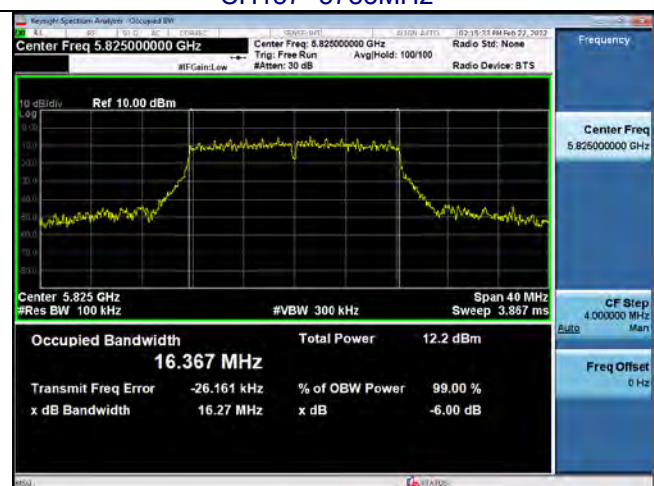
CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



CH165 -5825MHz

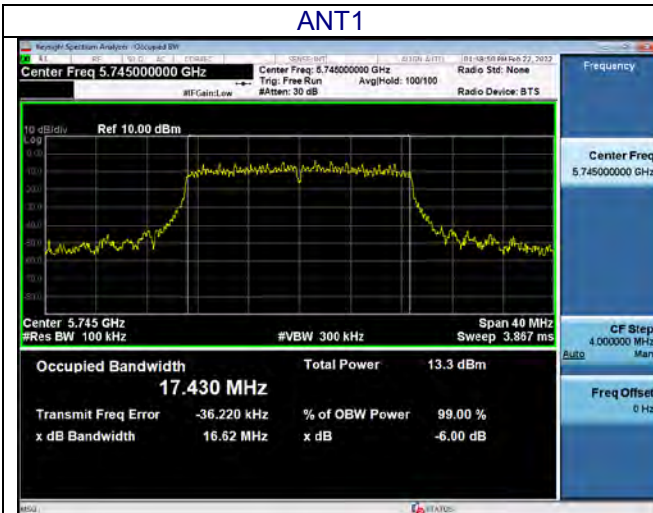


CH165 -5825MHz

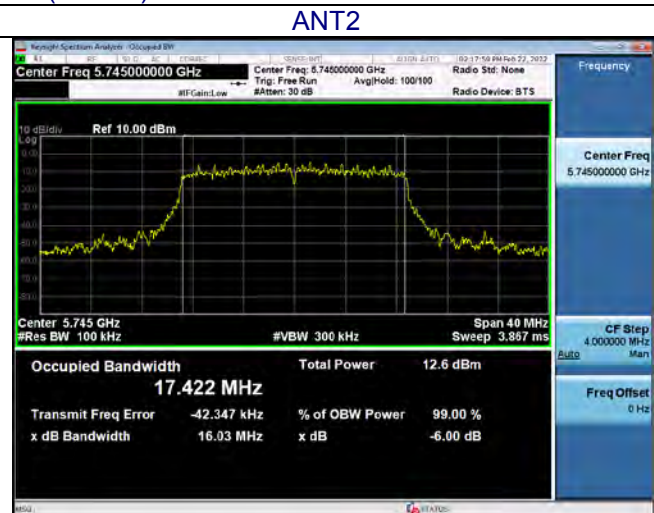


Band 4-802.11n (20MHz)

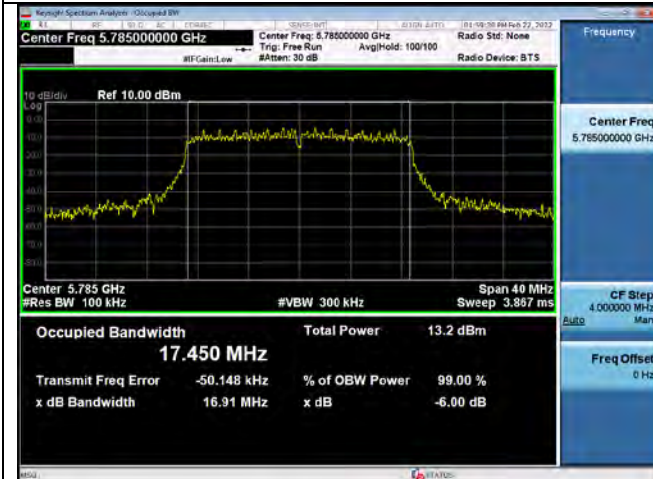
ANT1



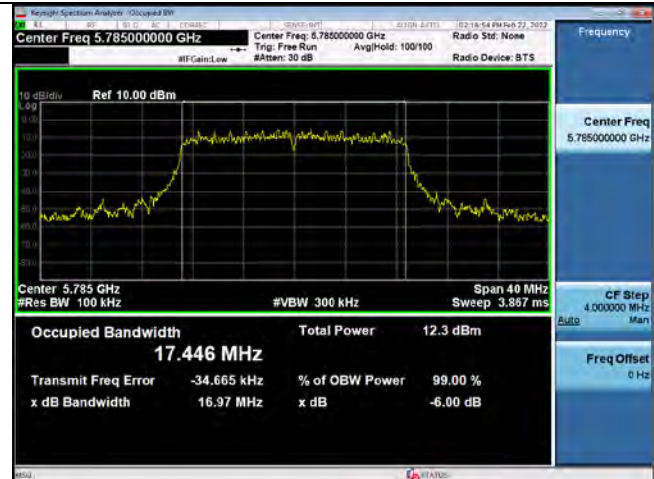
ANT2



CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



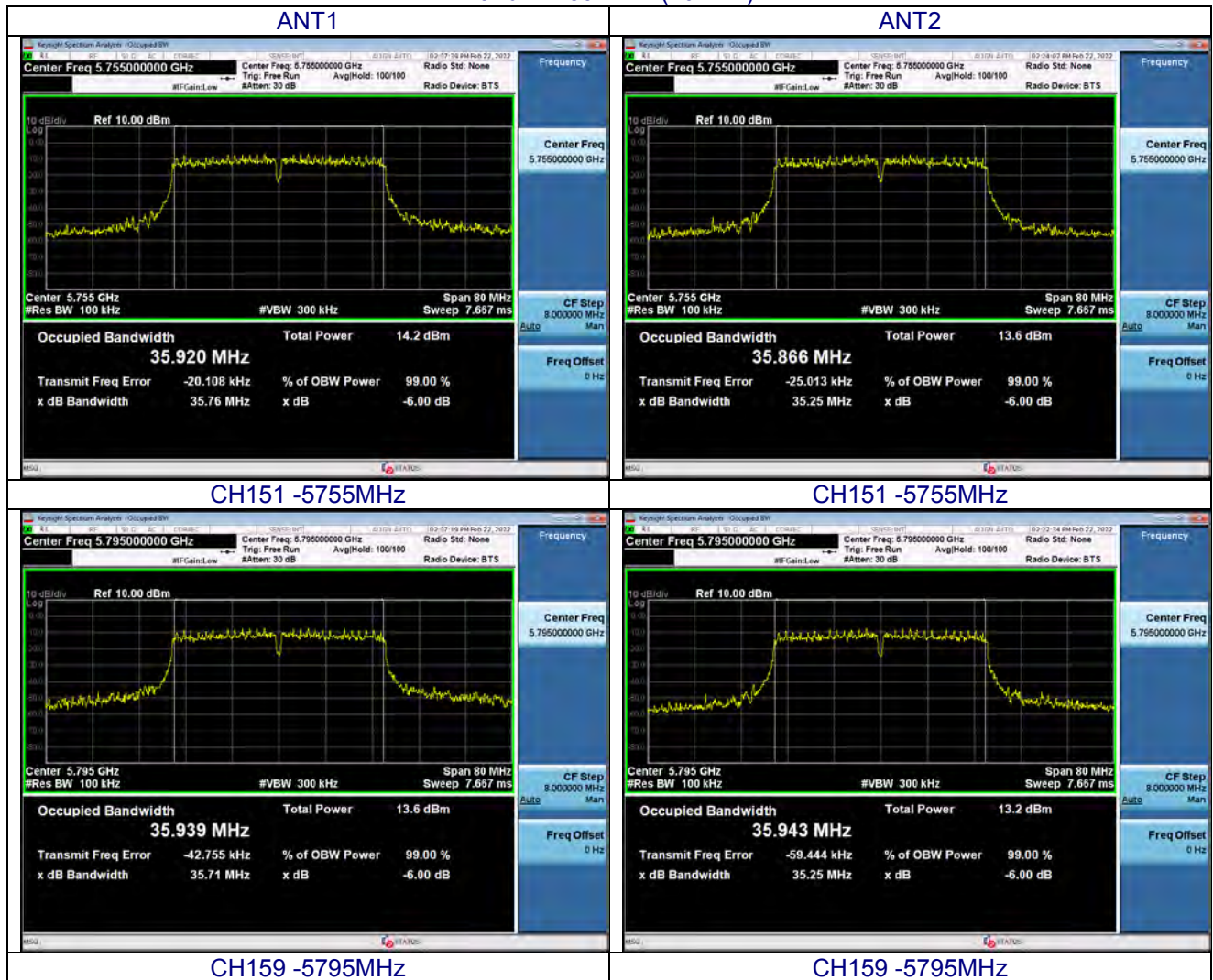
CH165 -5825MHz



CH165 -5825MHz

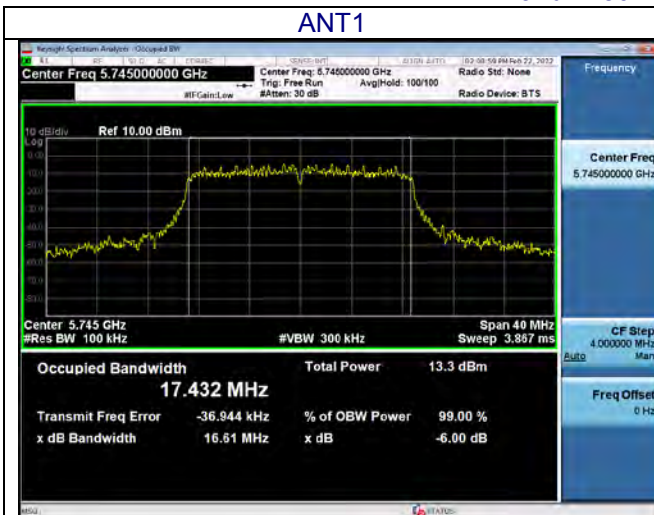


Band 4 – 802.11n (40MHz)

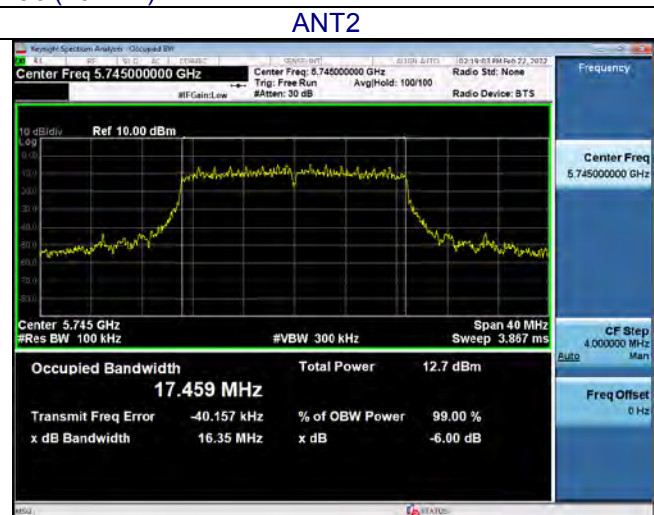


Band 4-802.11ac (20MHz)

ANT1



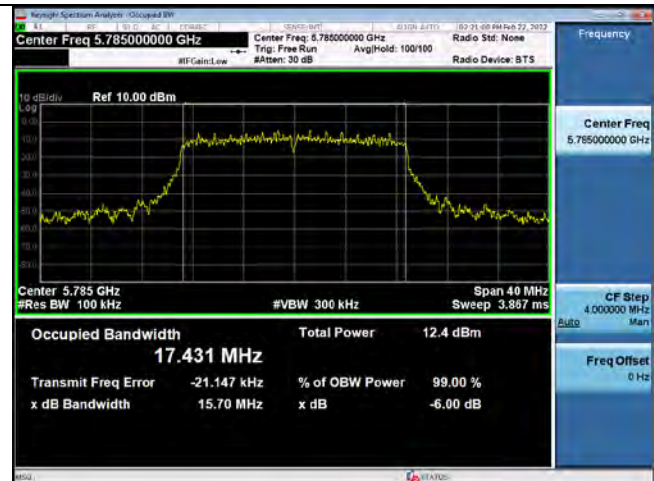
ANT2



CH149 -5745MHz



CH149 -5745MHz



CH157 -5785MHz



CH157 -5785MHz



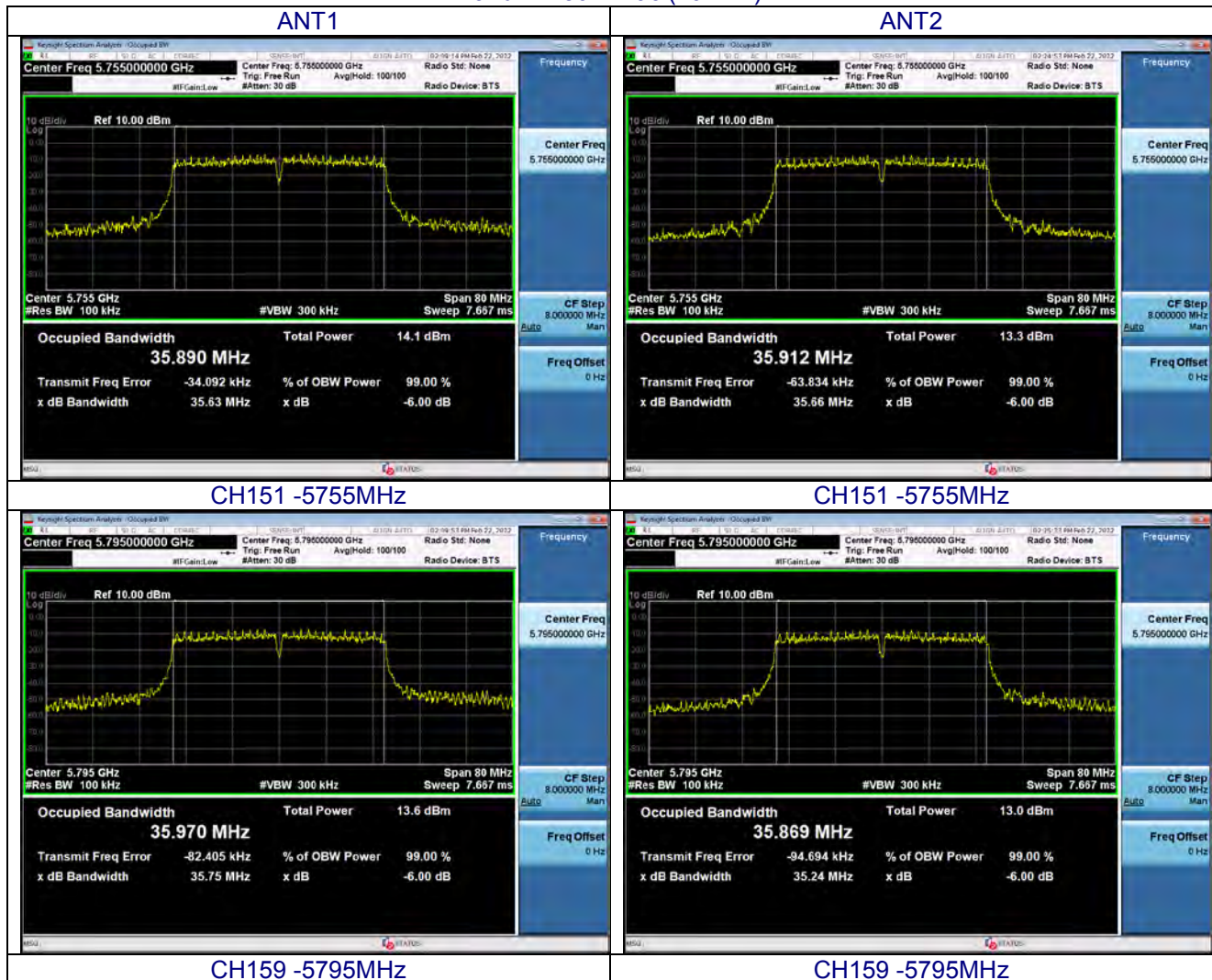
CH165 -5825MHz



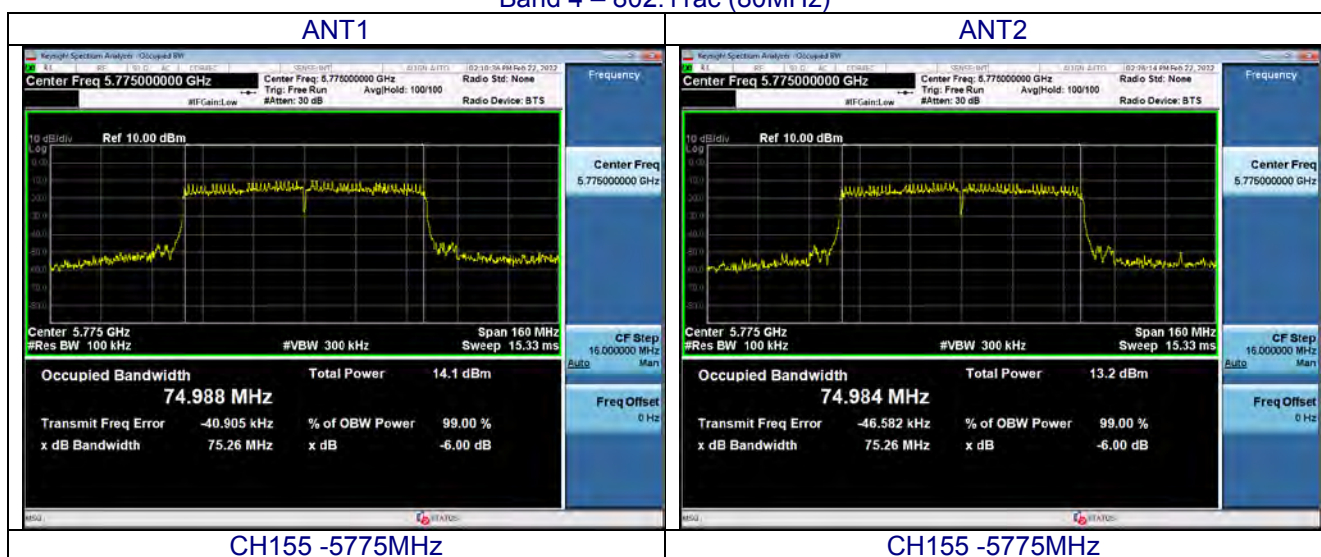
CH165 -5825MHz



Band 4 – 802.11ac (40MHz)



Band 4 – 802.11ac (80MHz)



7.OUTPUT POWER TEST

Test Requirement:	15.407 (a)(1)(2)(3)
Test Method:	KDB 789033 D02 v02r01

7.1 APPLIED PROCEDURES/LIMIT

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

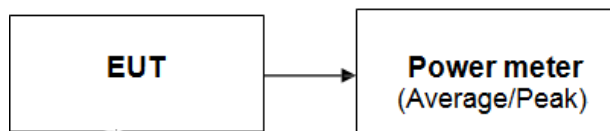
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Item	Test band	Limit	Result
Max conducted output power	U-NII-1	0.25W / 23.98dbm	Pass
Max conducted output power	U-NII-3	1 W / 30dbm	Pass

7.2 DEVIATION FROM STANDARD

No deviation.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.5 TEST RESULT

Temperature :	26°C	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC7.4V

BAND 1

802.11 Mode	Channel No.	Frequency [MHz]	Conducted Power [dBm]		Limit [dBm]
			ANT1	ANT2	
a	36	5180	3.687	4.047	23.98
	40	5200	4.639	3.595	23.98
	48	5240	4.932	3.498	23.98
n(20MHz)	36	5180	6.052	5.994	23.98
	40	5200	5.875	5.722	23.98
	48	5240	5.643	5.236	23.98
n(40MHz)	38	5190	5.318	4.807	23.98
	46	5230	5.292	4.681	23.98
ac(20MHz)	36	5180	6.323	5.151	23.98
	40	5200	6.272	5.671	23.98
	48	5240	5.955	4.075	23.98
ac(40MHz)	38	5190	4.180	4.334	23.98
	46	5230	3.023	2.832	23.98
ac(80MHz)	42	5210	1.595	1.254	23.98

MIMO/CDD Maximum Conducted Output Power Measurements

802.11 Mode	Channel No.	Freq. [MHz]	Conducted Power [dBm]		MIMO [dBm]	Limit [dBm]
			ANT1	ANT2		
a	36	5180	3.687	4.047	/	/
	40	5200	4.639	3.595	/	/
	48	5240	4.932	3.498	/	/
n(20MHz)	36	5180	6.052	5.994	9.03	23.97
	40	5200	5.875	5.722	8.81	23.97
	48	5240	5.643	5.236	8.45	23.97
n(40MHz)	38	5190	5.318	4.807	8.08	23.97
	46	5230	5.292	4.681	8.01	23.97
ac(20MHz)	36	5180	6.323	5.151	8.79	23.97
	40	5200	6.272	5.671	8.99	23.97
	48	5240	5.955	4.075	8.13	23.97
ac(40MHz)	38	5190	4.180	4.334	7.27	23.97
	46	5230	3.023	2.832	5.94	23.97
ac(80MHz)	42	5210	1.595	1.254	4.44	23.97

NOTE: power limit (MIMO)= power limit – (6.01-6)=23.98-0.01=23.97

BAND 4

802.11 Mode	Channel No.	Frequency [MHz]	Conducted Power [dBm]		Limit [dBm]
			ANT1	ANT2	
a	149	5745	4.348	3.635	30.00
	157	5785	4.26	3.252	30.00
	165	5825	3.646	2.979	30.00
n(20MHz)	149	5745	4.523	3.380	30.00
	157	5785	3.933	3.342	30.00
	165	5825	3.763	2.661	30.00
n (40MHz)	151	5755	3.126	2.605	30.00
	159	5795	3.676	3.018	30.00
ac (20MHz)	149	5745	4.421	3.629	30.00
	157	5785	4.195	3.562	30.00
	165	5825	3.620	3.057	30.00
ac(40MHz)	151	5755	3.671	2.985	30.00
	159	5795	3.192	2.678	30.00
ac(80MHz)	155	5775	2.837	1.699	30.00

MIMO/CDD Maximum Conducted Output Power Measurements

802.11 Mode	Channel No.	Freq. [MHz]	Conducted Power [dBm]		MIMO [dBm]	Limit [dBm]
			ANT1	ANT2		
a	149	5745	4.348	3.635	/	/
	157	5785	4.26	3.252	/	/
	165	5825	3.646	2.979	/	/
n(20MHz)	149	5745	4.523	3.380	7.00	29.99
	157	5785	3.933	3.342	6.66	29.99
	165	5825	3.763	2.661	6.26	29.99
n(40MHz)	151	5755	3.126	2.605	5.88	29.99
	159	5795	3.676	3.018	6.37	29.99
ac(20MHz)	149	5745	4.421	3.629	7.05	29.99
	157	5785	4.195	3.562	6.90	29.99
	165	5825	3.620	3.057	6.36	29.99
ac(40MHz)	151	5755	3.671	2.985	6.35	29.99
	159	5795	3.192	2.678	5.95	29.99
ac(80MHz)	155	5775	2.837	1.699	5.32	29.99

NOTE: power limit (MIMO)= power limit – (6.01-6)=30-.01=29.99

8.OUT OF BAND EDGEEMISSION

Test Requirement:	15.407 (b)
Test Method:	KDB 789033 D02 v02r01

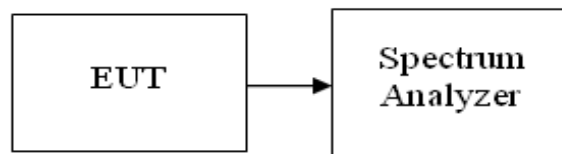
8.1TEST PROCEDURE

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

8.2DEVIATION FROM STANDARD

No deviation.

8.3TEST SETUP



8.4EUT OPERATION CONDITIONS

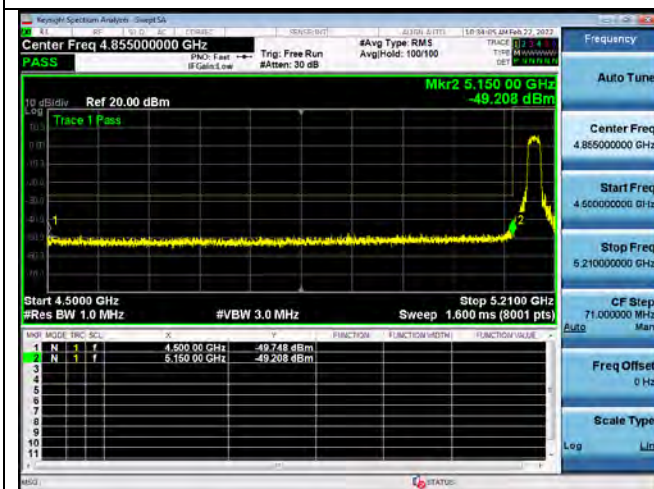
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

8.5 TEST RESULTS

Test plot as follows:

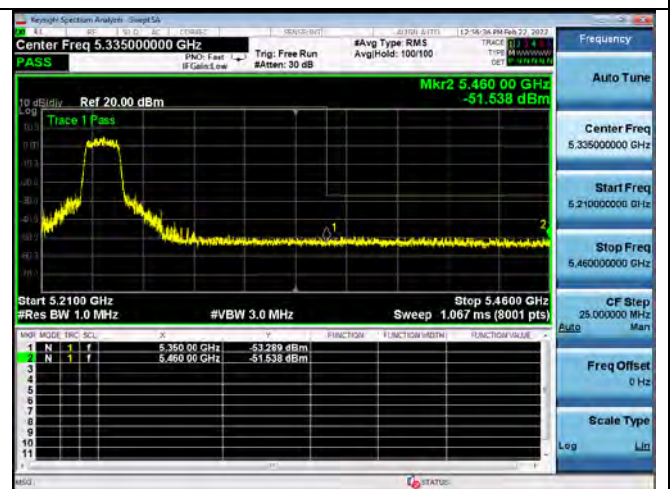
ANT1-band1

Test mode:



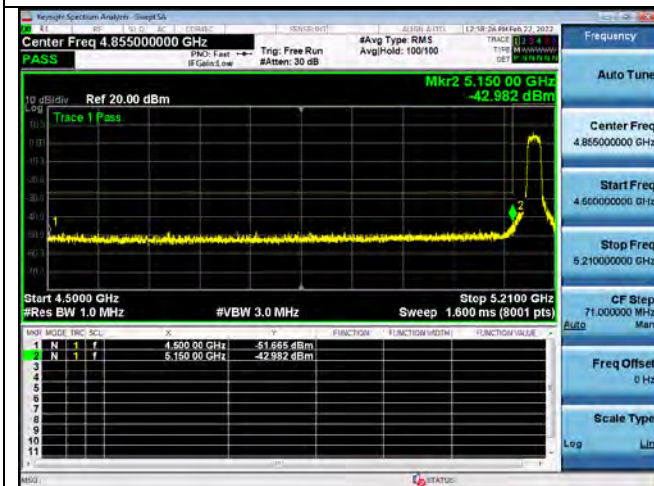
Lowest channel

802.11a



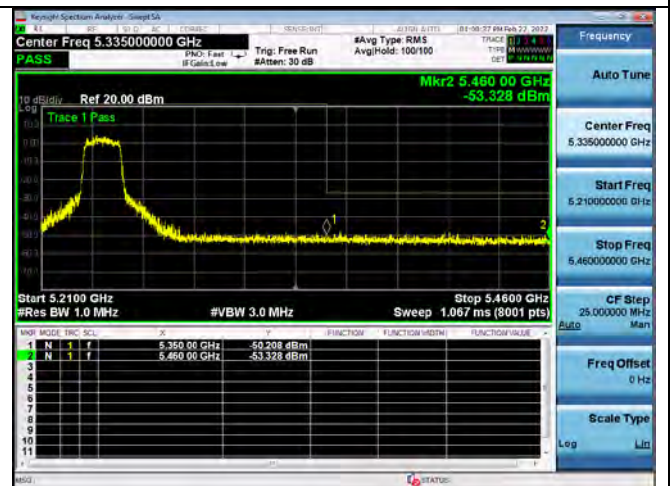
Highest channel

Test mode:



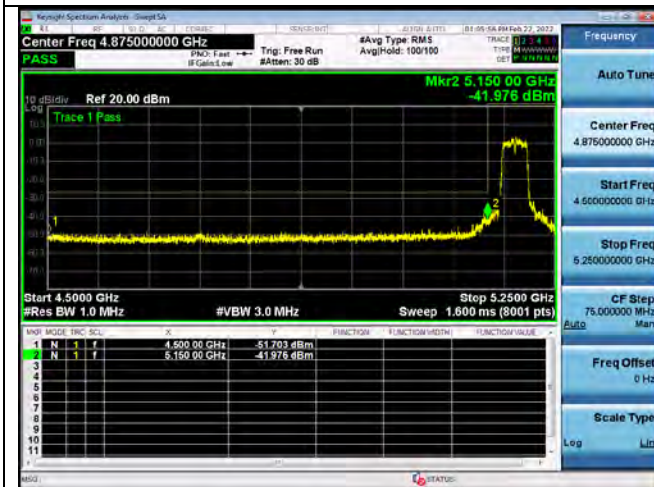
Lowest channel

802.11n20



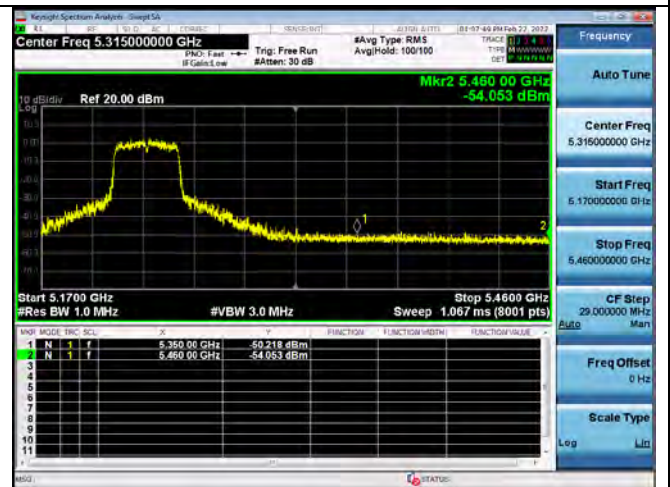
Highest channel

Test mode:



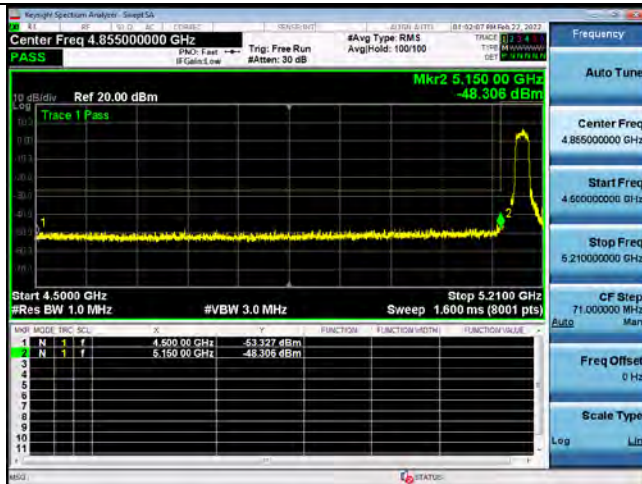
Lowest channel

802.11n40



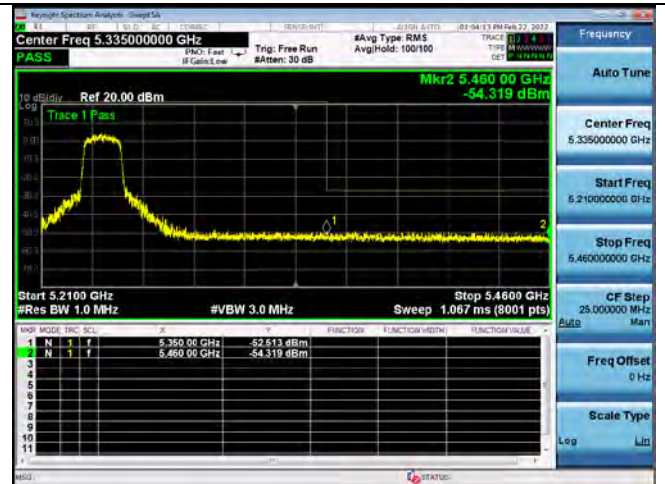
Highest channel

Test mode:



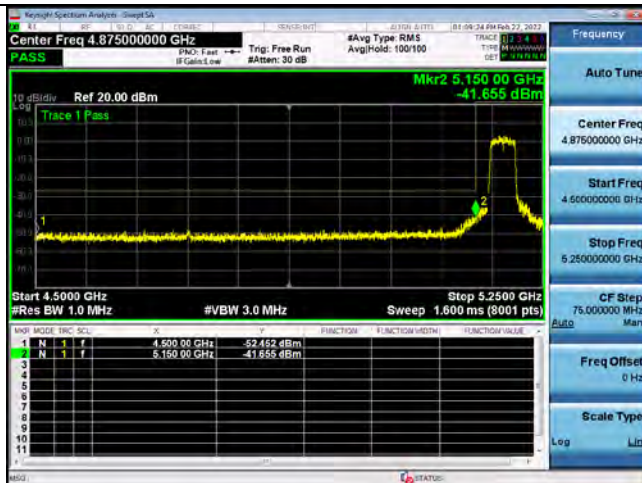
Lowest channel

802.11ac20



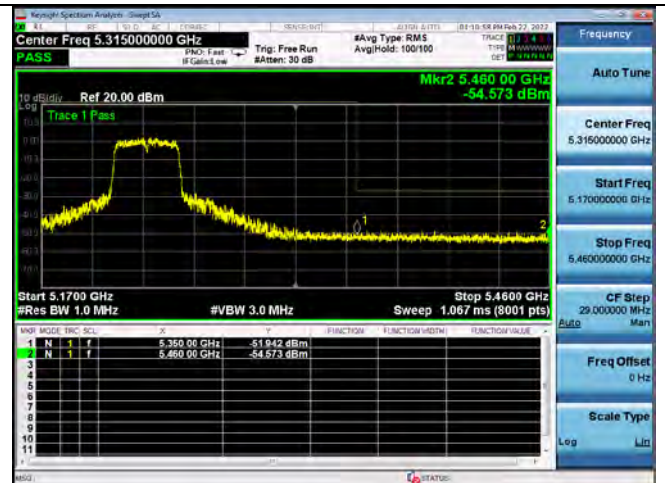
Highest channel

Test mode:



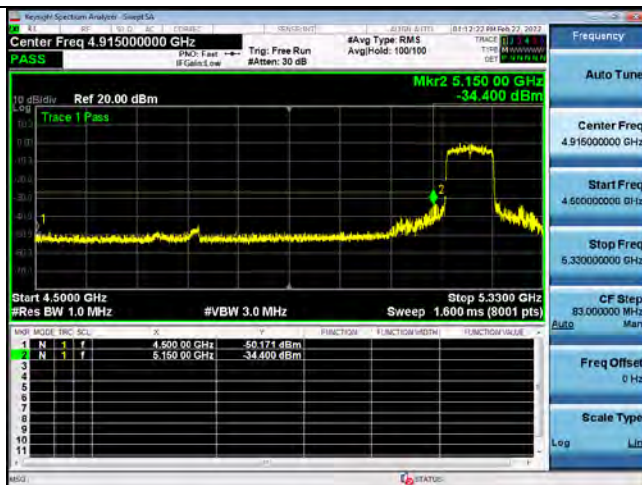
Lowest channel

802.11ac40



Highest channel

Test mode:



Lowest channel

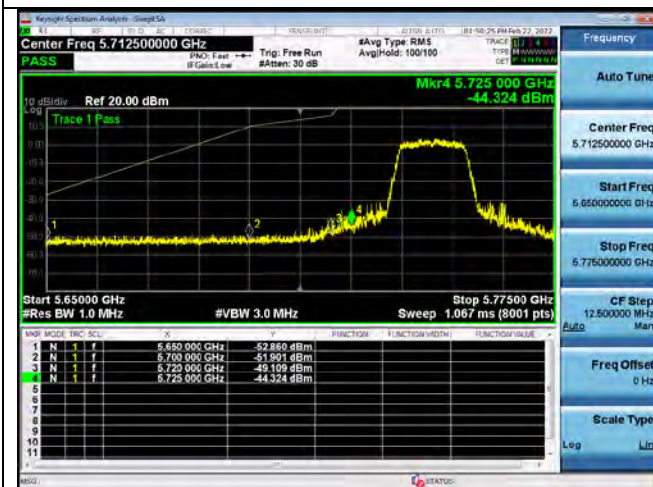
802.11ac80



Highest channel

ANT1-band 4

Test mode:



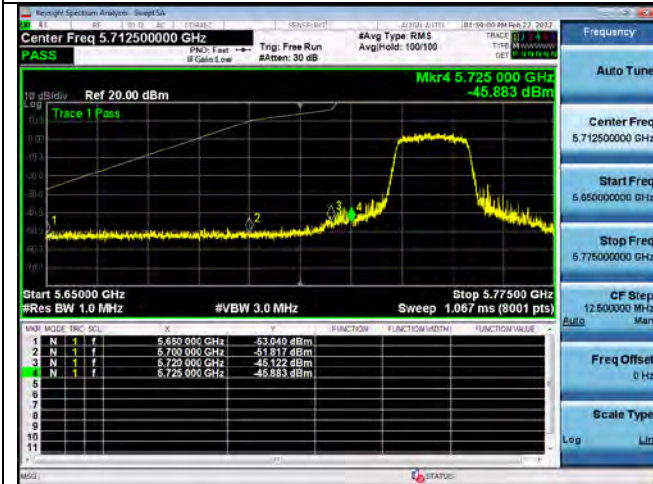
Lowest channel

802.11a



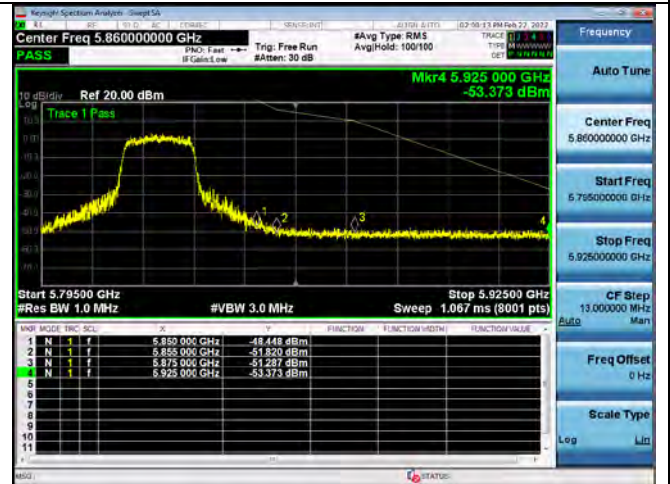
Highest channel

Test mode:



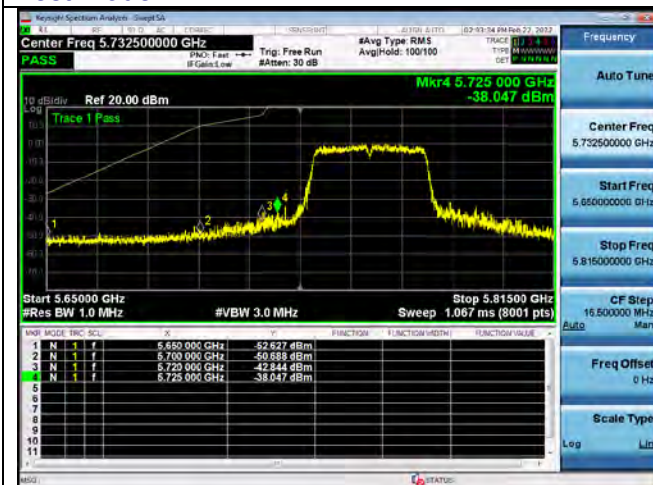
Lowest channel

802.11n20



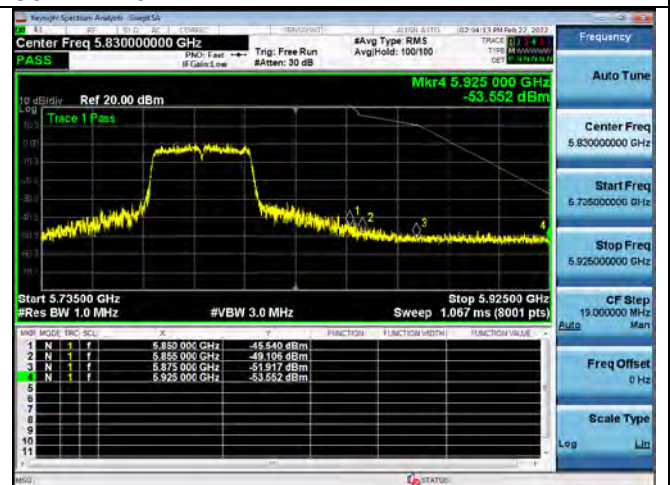
Highest channel

Test mode:



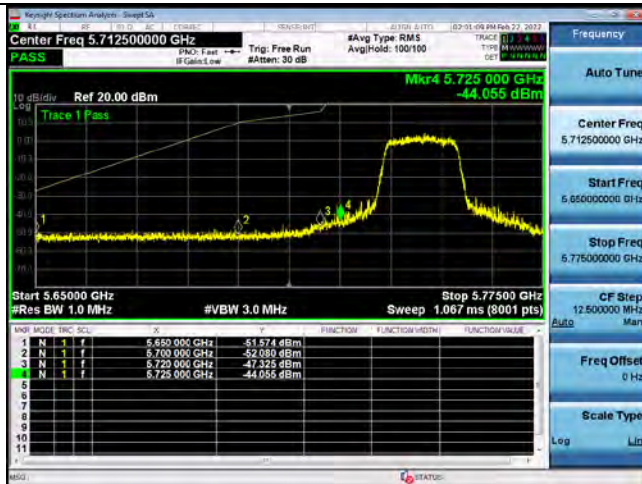
Lowest channel

802.11n40



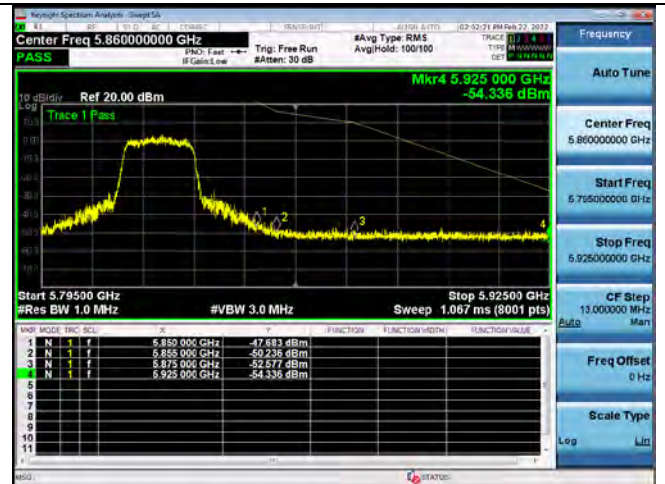
Highest channel

Test mode:



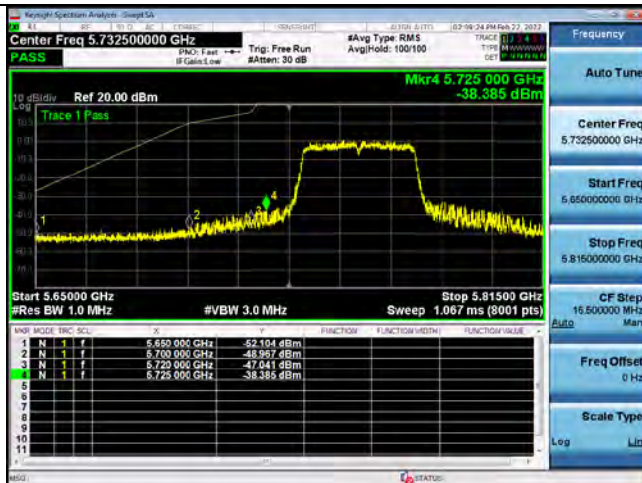
Lowest channel

802.11ac20



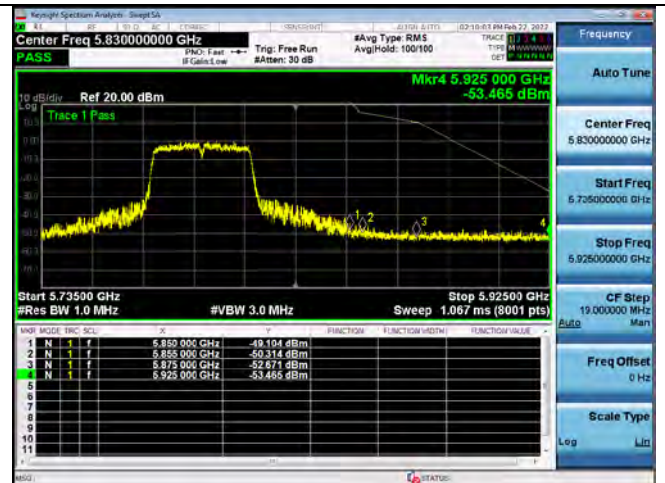
Highest channel

Test mode:



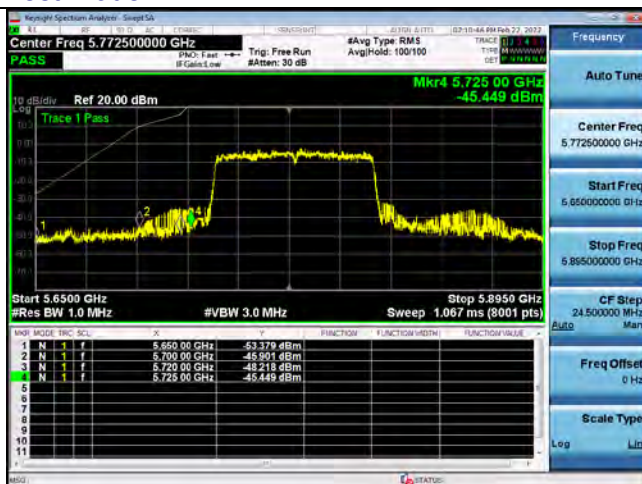
Lowest channel

802.11ac40



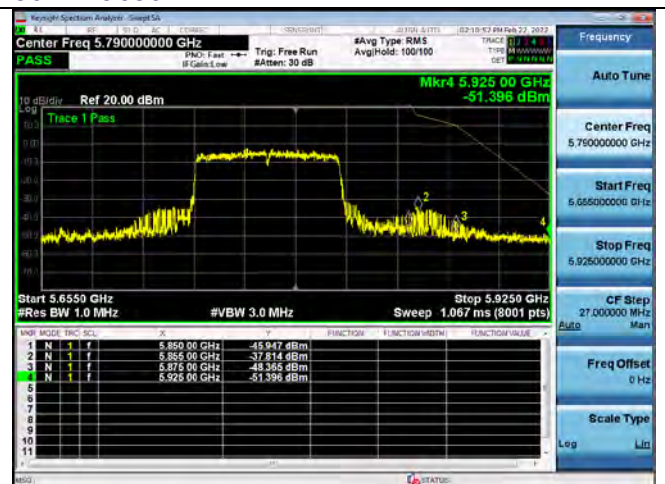
Highest channel

Test mode:



Lowest channel

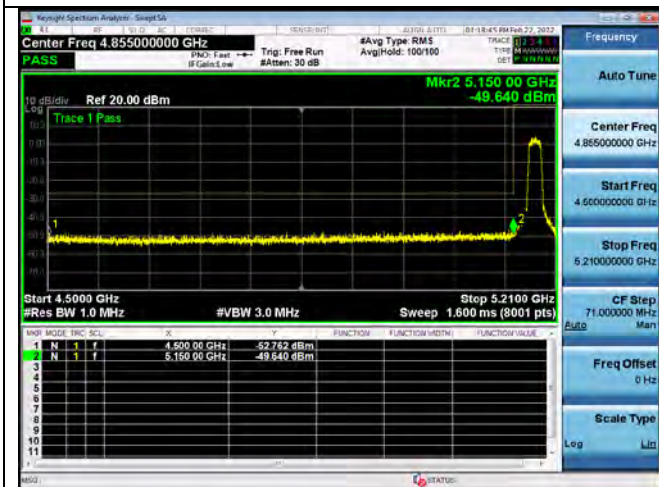
802.11ac80



Highest channel

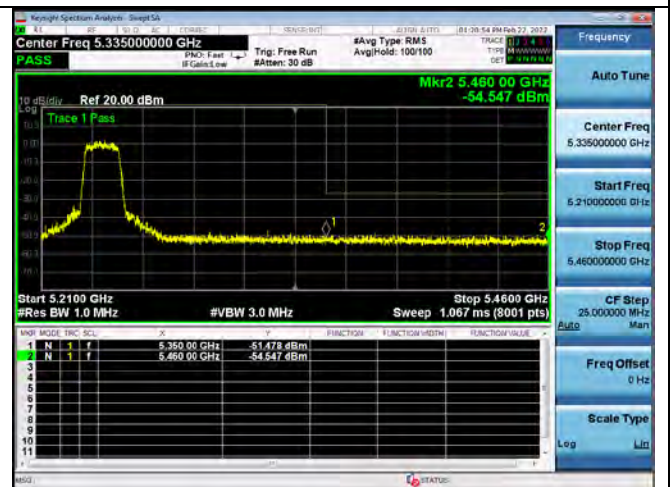
ANT2-band1

Test mode:



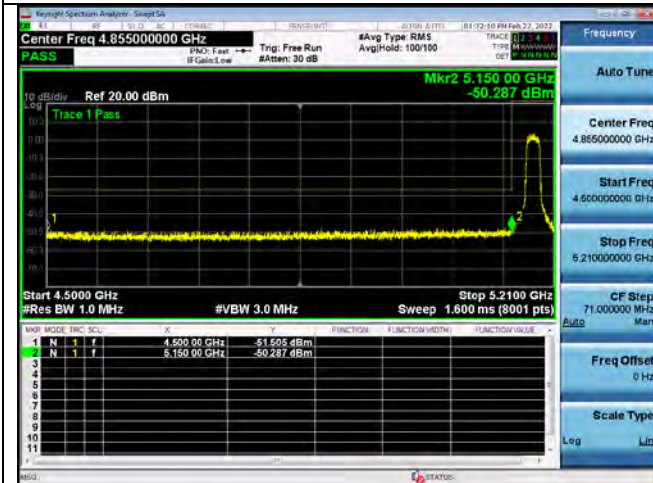
Lowest channel

802.11a



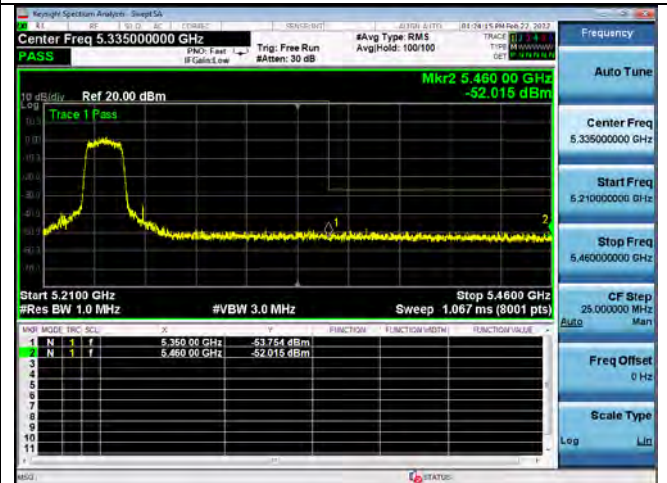
Highest channel

Test mode:



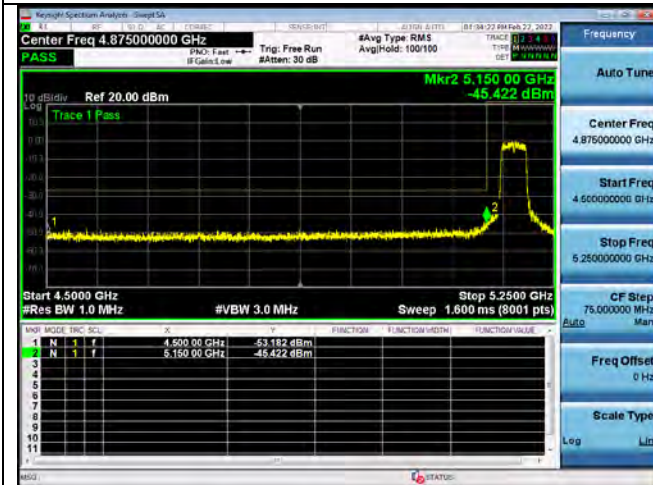
Lowest channel

802.11n20



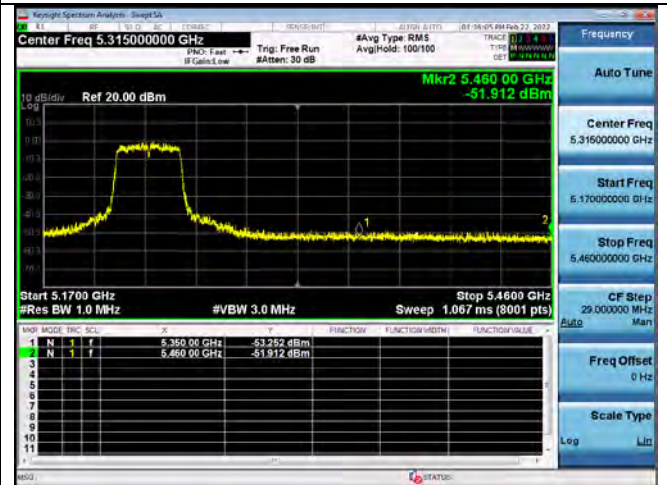
Highest channel

Test mode:

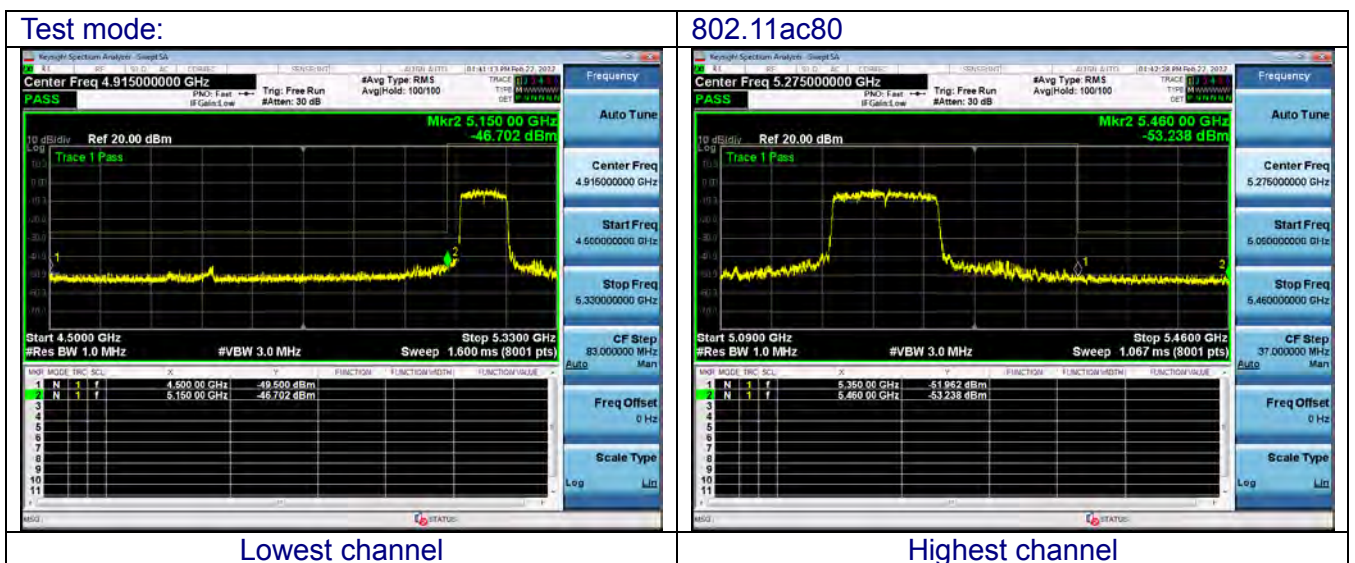
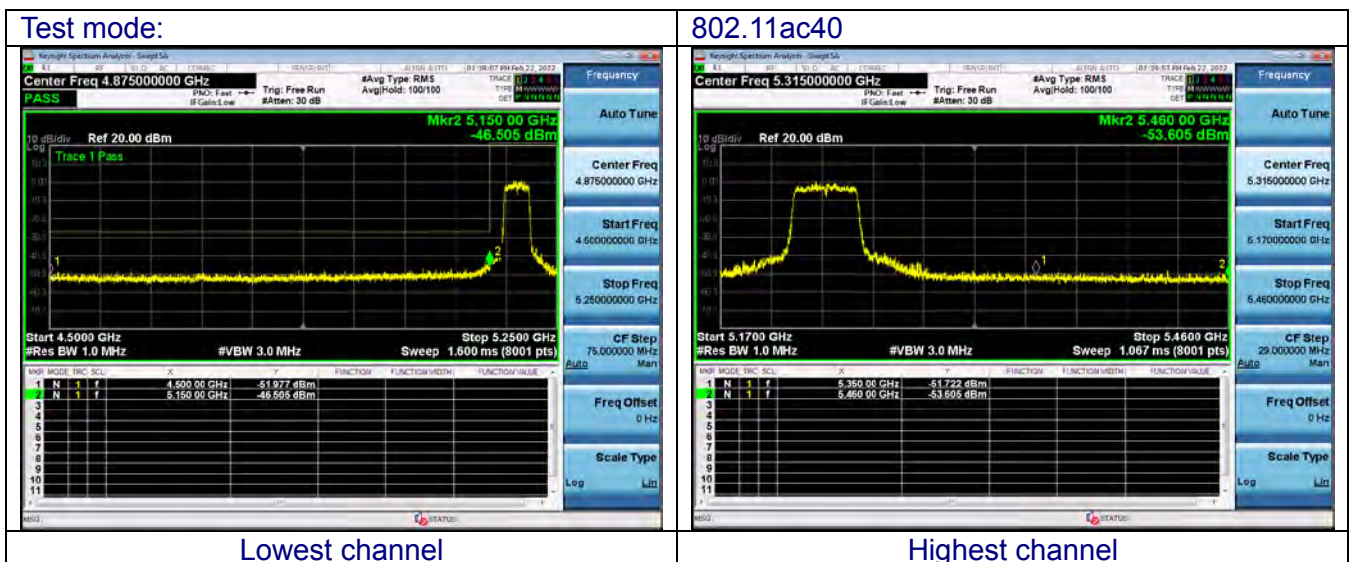
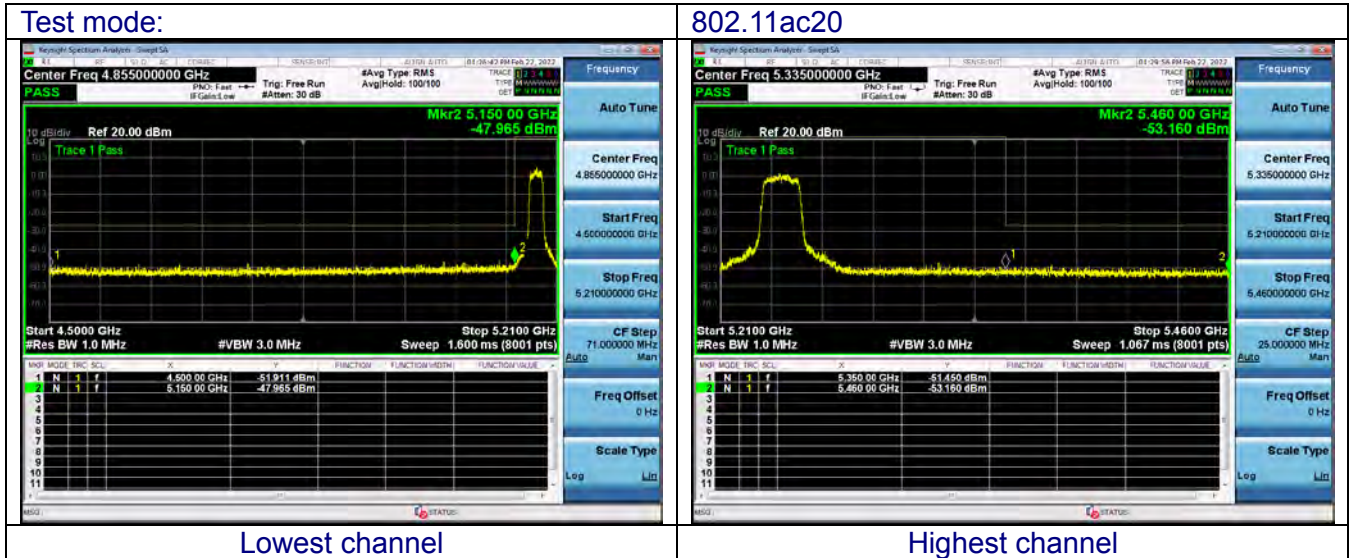


Lowest channel

802.11n40

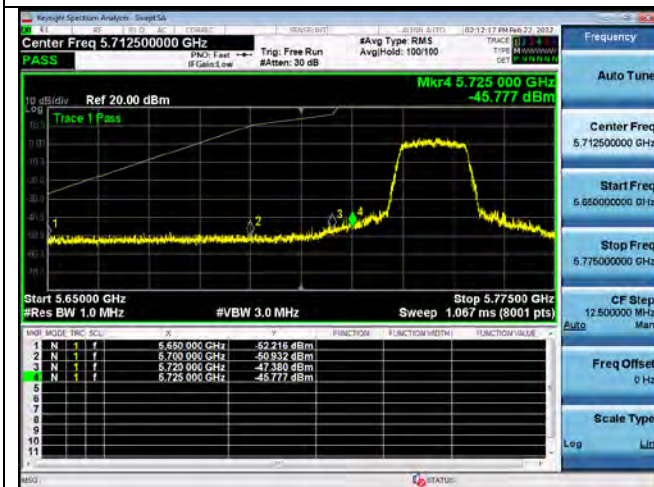


Highest channel



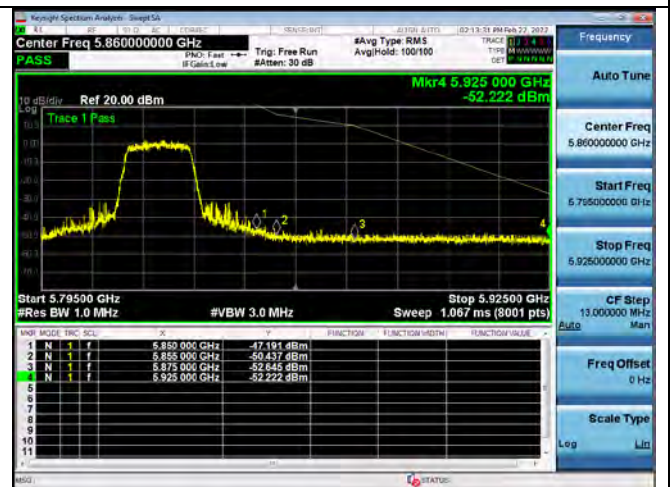
ANT2-band 4

Test mode:



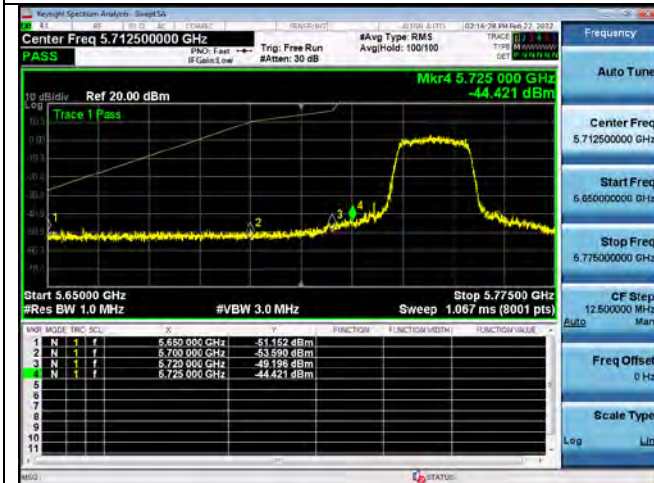
Lowest channel

802.11a



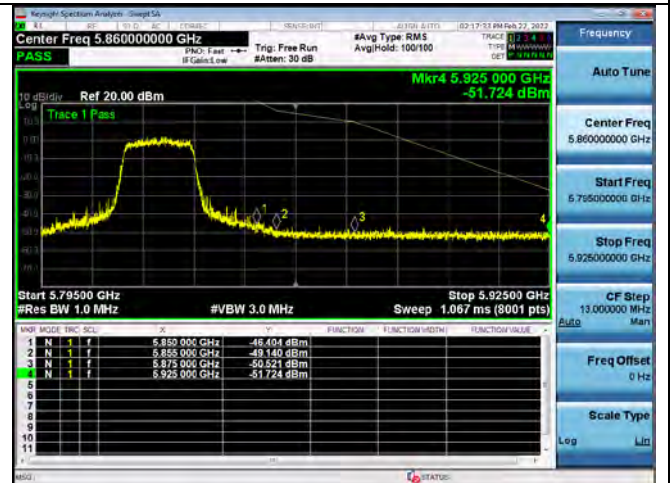
Highest channel

Test mode:



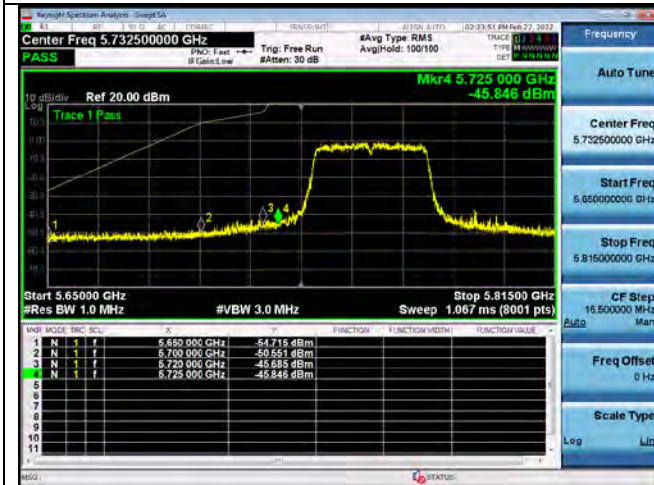
Lowest channel

802.11n20



Highest channel

Test mode:



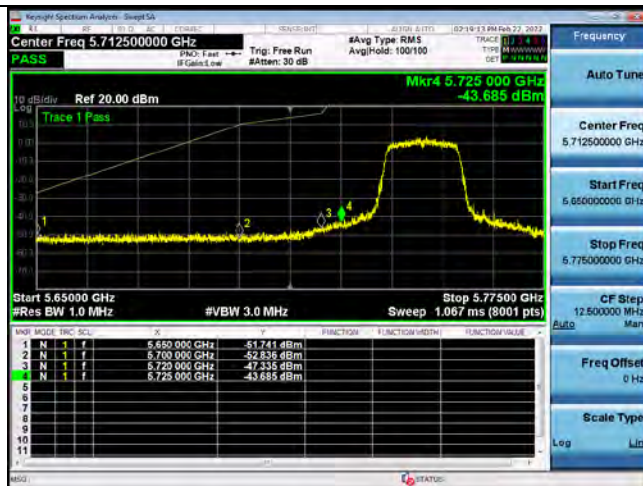
Lowest channel

802.11n40



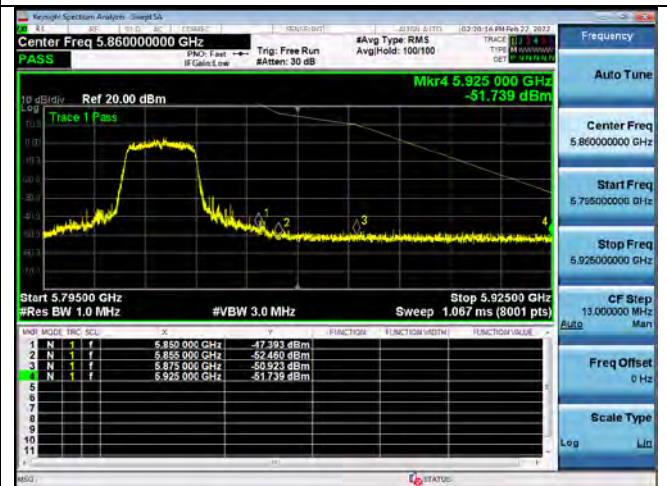
Highest channel

Test mode:



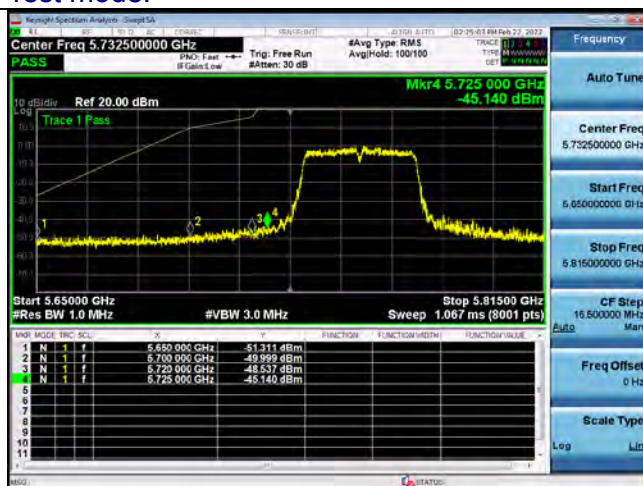
Lowest channel

802.11ac20



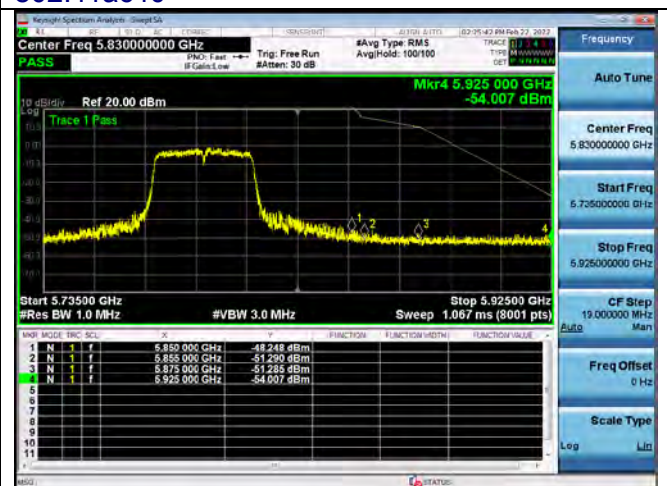
Highest channel

Test mode:



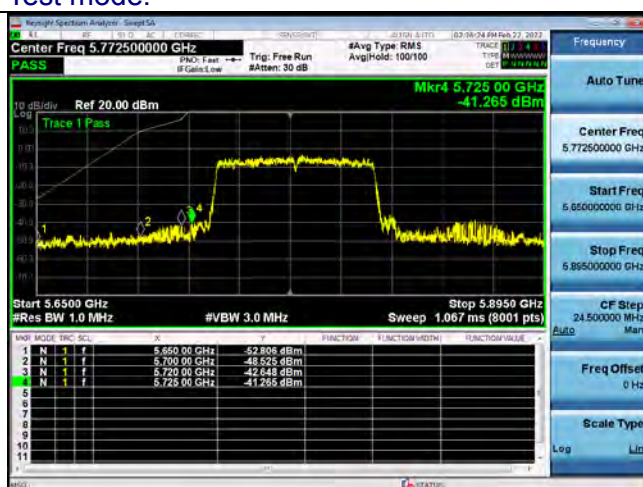
Lowest channel

802.11ac40



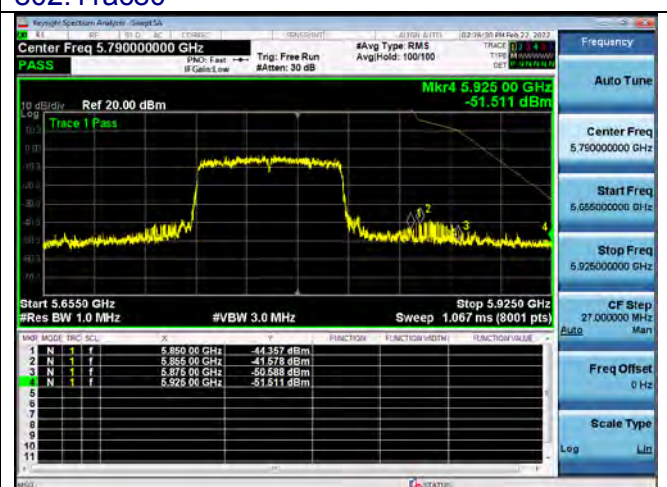
Highest channel

Test mode:



Lowest channel

802.11ac80



Highest channel

9. FREQUENCY STABILITY MEASUREMENT

9.1 LIMIT

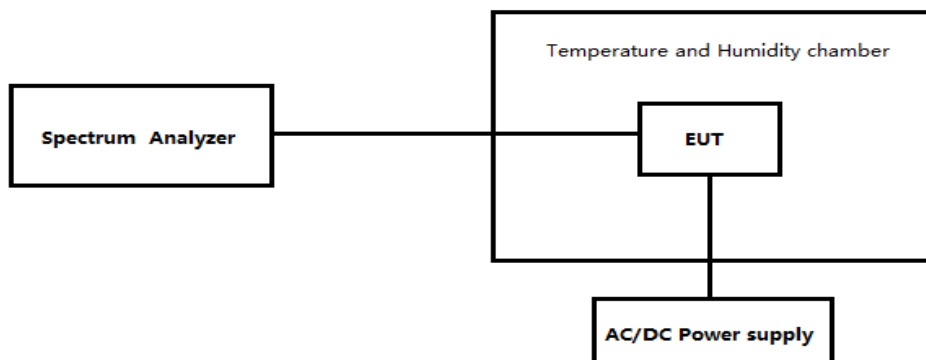
According to §15.407(g), Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of

normal operation as specified in the user's manual.

9.2 TESTPROCEDURE

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

9.3 TESTCONFIGURATION



9.4 TEST RESULT

Temperature :	26℃	Relative Humidity :	54%
Pressure :	101kPa	Test Voltage :	DC7.4V

Note: Only the test results of the worst channel are displayed

ANT1-802.11a-CH36

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	87	0.0167
40	120	93	0.0180
30	120	94	0.0182
20	120	77	0.0148
10	120	63	0.0121
0	120	65	0.0126
-10	120	74	0.0142
-20	120	79	0.0152
-30	120	67	0.0129

ANT1-802.11a-CH48

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	66	0.0126
40	120	66	0.0125
30	120	84	0.0161
20	120	80	0.0152
10	120	73	0.0139
0	120	94	0.0179
-10	120	68	0.0131
-20	120	69	0.0132
-30	120	69	0.0131

ANT1-802.11a-CH149

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	65	0.0113
40	120	78	0.0135
30	120	92	0.0161
20	120	72	0.0125
10	120	83	0.0144
0	120	60	0.0105
-10	120	91	0.0158
-20	120	78	0.0136
-30	120	72	0.0125

ANT1-802.11a-CH165

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	71	0.0123
40	120	79	0.0135
30	120	61	0.0104
20	120	91	0.0156
10	120	91	0.0157
0	120	65	0.0111
-10	120	92	0.0158
-20	120	76	0.0131
-30	120	72	0.0124

ANT1-802.11n20-CH36

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	90	0.0174
40	120	61	0.0118
30	120	92	0.0177
20	120	73	0.0140
10	120	61	0.0118
0	120	91	0.0175
-10	120	73	0.0142
-20	120	95	0.0183
-30	120	95	0.0184

ANT1-802.11n20-CH48

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	95	0.0181
40	120	71	0.0136
30	120	79	0.0152
20	120	61	0.0117
10	120	70	0.0134
0	120	70	0.0133
-10	120	79	0.0150
-20	120	66	0.0126
-30	120	90	0.0171

ANT1-802.11n20-CH149

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	75	0.0131
40	120	76	0.0132
30	120	64	0.0111
20	120	91	0.0158
10	120	67	0.0116
0	120	80	0.0140
-10	120	67	0.0116
-20	120	63	0.0109
-30	120	80	0.0139

ANT1-802.11n20-CH165

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	71	0.0122
40	120	71	0.0122
30	120	60	0.0104
20	120	69	0.0119
10	120	89	0.0153
0	120	79	0.0136
-10	120	61	0.0105
-20	120	84	0.0145
-30	120	80	0.0137

ANT1-802.11n40-CH38

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	72	0.0139
40	120	90	0.0173
30	120	75	0.0144
20	120	87	0.0168
10	120	87	0.0167
0	120	90	0.0173
-10	120	83	0.0160
-20	120	85	0.0164
-30	120	80	0.0153

ANT1-802.11n40-CH46

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	61	0.0117
40	120	69	0.0131
30	120	62	0.0119
20	120	83	0.0159
10	120	70	0.0134
0	120	71	0.0136
-10	120	79	0.0151
-20	120	74	0.0141
-30	120	65	0.0125

ANT1-802.11n40-CH151

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	62	0.0108
40	120	79	0.0137
30	120	89	0.0155
20	120	66	0.0115
10	120	77	0.0133
0	120	68	0.0118
-10	120	90	0.0156
-20	120	75	0.0130
-30	120	84	0.0145

ANT1-802.11n40-CH159

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	73	0.0125
40	120	63	0.0109
30	120	70	0.0121
20	120	78	0.0134
10	120	93	0.0160
0	120	82	0.0141
-10	120	93	0.0160
-20	120	95	0.0164
-30	120	71	0.0122

ANT1-802.11ac20-CH36

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	77	0.0149
40	120	63	0.0122
30	120	86	0.0165
20	120	67	0.0129
10	120	63	0.0122
0	120	89	0.0173
-10	120	89	0.0172
-20	120	82	0.0159
-30	120	93	0.0179

ANT1-802.11ac20-CH48

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	69	0.0132
40	120	85	0.0162
30	120	81	0.0155
20	120	80	0.0154
10	120	65	0.0124
0	120	84	0.0160
-10	120	75	0.0144
-20	120	85	0.0162
-30	120	67	0.0129

ANT1-802.11ac20-CH149

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	91	0.0158
40	120	94	0.0163
30	120	88	0.0154
20	120	66	0.0115
10	120	96	0.0167
0	120	77	0.0135
-10	120	69	0.0120
-20	120	82	0.0142
-30	120	87	0.0152

ANT1-802.11ac20-CH165

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	74	0.0128
40	120	64	0.0109
30	120	69	0.0118
20	120	87	0.0149
10	120	78	0.0134
0	120	79	0.0136
-10	120	68	0.0117
-20	120	88	0.0150
-30	120	65	0.0112

ANT1-802.11ac40-CH38

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	81	0.0157
40	120	62	0.0120
30	120	83	0.0160
20	120	74	0.0143
10	120	69	0.0133
0	120	66	0.0127
-10	120	81	0.0156
-20	120	90	0.0174
-30	120	67	0.0130

ANT1-802.11ac40-CH46

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	88	0.0168
40	120	86	0.0164
30	120	93	0.0178
20	120	80	0.0152
10	120	86	0.0165
0	120	94	0.0179
-10	120	65	0.0125
-20	120	67	0.0128
-30	120	96	0.0183

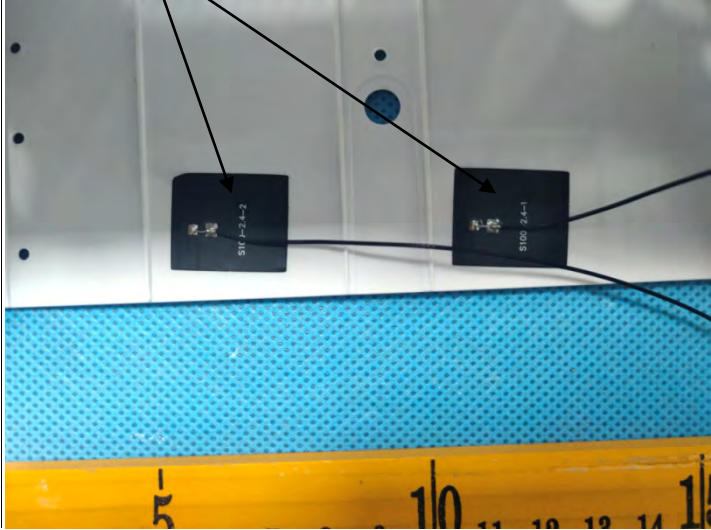
ANT1-802.11ac40-CH151

Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	90	0.0156
40	120	66	0.0114
30	120	72	0.0125
20	120	60	0.0105
10	120	96	0.0167
0	120	93	0.0161
-10	120	70	0.0122
-20	120	63	0.0110
-30	120	63	0.0109

ANT1-802.11ac40-CH159

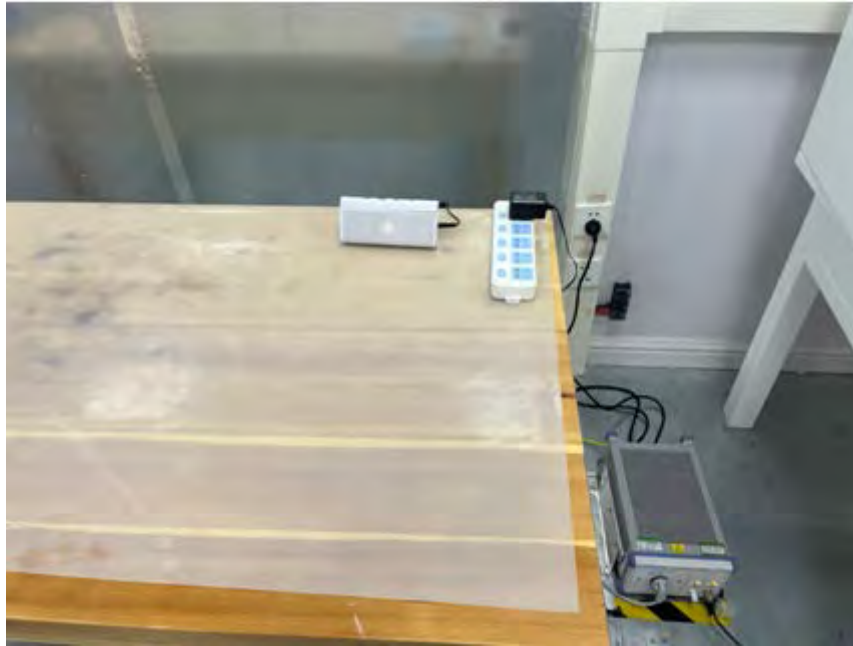
Temperature (°C)	Voltage (AC:V)	Frequency Measure with time Elapsed	
		MCF	(ppm)
50	120	73	0.0126
40	120	69	0.0119
30	120	90	0.0156
20	120	96	0.0165
10	120	83	0.0143
0	120	74	0.0128
-10	120	82	0.0142
-20	120	77	0.0132
-30	120	93	0.0160

10.ANTENNA REQUIREMENT

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. Refer to statement below for compliance. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed. Antenna Connected Construction The antenna used in this product is a Glue stick antenna, and the best case gain of the antenna is antenna port 1:3dBi and Antenna port 2:3dBi, and MIMO gain is 6.01dBi EUT Antenna: 2.4Gwifi & 5Gwifi ANT 	

10. TEST SETUP PHOTO





11. EUT CONSTRUCTIONAL DETAILS

Please refer to external photos file and internal photos file

***** END OF REPORT *****