FCC Test Report

FCC ID	:	**E52-K777**
Equipment	:	**WLAN (11ac/a/b/g/n 1x1) USB module**
Model No.	:	**DHUA-K77-7**
Brand Name	:	**KYOCERA**
Applicant	:	**KYOCERA Document Solutions Inc.**
Address	:	**2-28, 1-chome, Tamatsukuri, Chuo-Ku, Osaka, 540-8585 JAPAN**
Standard	:	**47 CFR FCC Part 15.407**
Received Date	:	**Oct. 03, 2019**
Tested Date	:	**Oct. 16 ~ Oct. 31, 2019**

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: **Approved by:**

Along Chen / Assistant Manager **Gary Chang / Manager**

Testing Laboratory 2732

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Release Record

Report No.	Version	Description	Issued Date
FR9O0201AN	Rev. 01	Initial issue	Dec. 06, 2019

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.505MHz 28.43 (Margin -17.57dB) - AV	Pass
15.407(b) 15.209	Radiated Emissions	[dBuV/m at 3m]: 15900.00MHz 53.60 (Margin -0.40dB) - AV	Pass
15.407(a)	Emission Bandwidth	Meet the requirement of limit	Pass
15.407(e)	6dB bandwidth	Meet the requirement of limit	Pass
15.407(a)	RF Output Power	Max Power [dBm]: 5150~5250MHz: 18.35 5250~5350MHz: 18.72 5470~5725MHz: 17.55 5725~5850MHz: 17.78	Pass
15.407(a)	Peak Power Spectral Density	Meet the requirement of limit	Pass
15.407(g)	Frequency Stability	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	**IEEE Std. 802.11**	**Ch. Freq. (MHz)**	**Channel Number**	**Transmit Chains (N_{TX})**	**Data Rate / MCS**
5150-5250 5250-5350 5470-5725 5725-5850	a	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	6-54 Mbps
5150-5250 5250-5350 5470-5725 5725-5850	n (HT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	MCS 0-7
5150-5250 5250-5350 5470-5725 5725-5850	n (HT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	1	MCS 0-7
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT20)	5180-5240 5260-5320 5500-5720 5745-5825	36-48 [4] 52-64 [4] 100-144 [12] 149-165 [5]	1	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT40)	5190-5230 5270-5310 5510-5710 5755-5795	38-46 [2] 54-62 [2] 102-142 [6] 151-159 [2]	1	MCS 0-9
5150-5250 5250-5350 5470-5725 5725-5850	ac (VHT80)	5210 5290 5530~5690 5775	42 [1] 58 [1] 106-138 [3] 155 [1]	1	MCS 0-9
Note 1: RF output power specifies that Maximum Conducted Output Power. Note 2: 802.11a/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.					

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	**5150~5250**	**5250~5350**	**5470~5725**	**5725~5850**
1	ANT-0	PCB printed ANT	NA	2.69	3.38	3.28	3.26	3.53

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from host

1.1.4 Accessories

N/A

1.1.5 Channel List

802.11 a / HT20 / VHT20		HT40 / VHT40	
Channel	**Frequency(MHz)**	**Channel**	**Frequency(MHz)**
36	5180	38	5190
40	5200	46	5230
44	5220	54	5270
48	5240	62	5310
52	5260	102	5510
56	5280	110	5550
60	5300	118	5590
64	5320	126	5630
100	5500	134	5670
104	5520	142	5710
108	5540	151	5755
112	5560	159	5795
116	5580	**VHT80**	
120	5600	42	5210
124	5620	58	5290
128	5640	106	5530
132	5660	122	5610
136	5680	138	5690
140	5700	155	5775
144	5720	---	---
149	5745	---	---
153	5765	---	---
157	5785	---	---
161	5805	---	---
165	5825	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	QRCT, Version: 3.0.187.0		
Duty Cycle and Duty Factor	**Mode**	**Duty Cycle (%)**	**Duty Factor (dB)**
	11a	96.76	0.14
	VHT20	96.57	0.15
	VHT40	92.78	0.33
	VHT80	85.71	0.67

1.1.7 Power Index of Test Tool

For Frequency band 5150-5250 MHz		
Modulation Mode	**Test Frequency (MHz)**	**Power Index**
11a	5180	15
11a	5200	20.5
11a	5240	16.5
VHT20	5180	15
VHT20	5200	20
VHT20	5240	16.5
VHT40	5190	12
VHT40	5230	17
VHT80	5210	10

For Frequency band 5250~5350 MHz		
Modulation Mode	**Test Frequency (MHz)**	**Power Index**
11a	5260	20.5
11a	5300	20.5
11a	5320	16
VHT20	5260	20.5
VHT20	5300	20.5
VHT20	5320	16
VHT40	5270	19
VHT40	5310	12
VHT80	5290	10

For Frequency band 5470~5725 MHz		
Modulation Mode	**Test Frequency (MHz)**	**Power Index**
11a	5500	10.5
11a	5580	15.5
11a	5700	10
VHT20	5500	10.5
VHT20	5580	15.5
VHT20	5700	10
VHT40	5510	9
VHT40	5590	16.5
VHT40	5670	12
VHT80	5530	11
VHT80	5610	16.5

Channel that extends across the 5.725 GHz boundary

For Frequency band 5470~5725 MHz		
Modulation Mode	**Test Frequency (MHz)**	**Power Index**
11a	5720	15.5
VHT20	5720	15.5
VHT40	5710	16.5
VHT80	5690	18.5

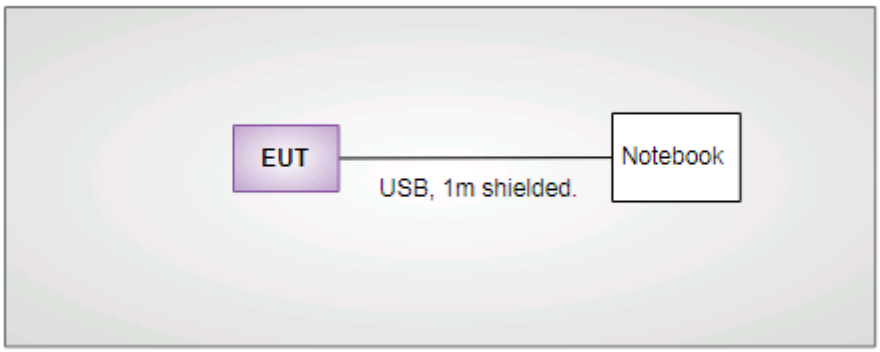
For Frequency band 5725~5850 MHz		
Modulation Mode	**Test Frequency (MHz)**	**Power Index**
11a	5745	15.5
11a	5785	15.5
11a	5825	15.5
VHT20	5745	15.5
VHT20	5785	15.5
VHT20	5825	15.5
VHT40	5755	16.5
VHT40	5795	16.5
VHT80	5775	15.5

1.2 Local Support Equipment List

Support Equipment List					
No.	**Equipment**	**Brand**	**Model**	**FCC ID**	**Remarks**
1	Notebook	DELL	Latitude E6430	DoC	---

1.3 Test Setup Chart

Test Setup Diagram



1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Oct. 31, 2019				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Receiver	R&S	ESR3	101657	Jan. 08, 2019	Jan. 07, 2020
LISN	R&S	ENV216	101579	Mar. 08, 2019	Mar. 07, 2020
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 22, 2019	Oct. 21, 2020
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Tested Date	Oct. 16, 2019				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101499	Jan. 07, 2019	Jan. 06, 2020
Receiver	R&S	ESR3	101658	Dec. 11, 2018	Dec. 10, 2019
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 17, 2019	Apr. 16, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Jan. 07, 2019	Jan. 06, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2018	Nov. 14, 2019
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 09, 2018	Nov. 08, 2019
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980187	Aug. 14, 2019	Aug. 13, 2020
Preamplifier	Agilent	83017A	MY53270014	Aug. 07, 2019	Aug. 06, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/**4**	Sep. 27, 2019	Sep. 26, 2020
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 27, 2019	Sep. 26, 2020
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 27, 2019	Sep. 26, 2020
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 27, 2019	Sep. 26, 2020
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 27, 2019	Sep. 26, 2020
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 27, 2019	Sep. 26, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Oct. 30, 2019				
Instrument	**Manufacturer**	**Model No.**	**Serial No.**	**Calibration Date**	**Calibration Until**
Spectrum Analyzer	R&S	FSV40	101063	Apr. 17, 2019	Apr. 16, 2020
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Oct. 29, 2019	Oct. 28, 2020
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.407
ANSI C63.10-2013
FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01
FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Uncertainty	
Parameters	**Uncertainty**
Bandwidth	±34.130 Hz
Conducted power	±0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Power density	±0.583 dB
Conducted emission	±2.715 dB
AC conducted emission	±2.92 dB
Radiated emission ≤ 1GHz	±3.96 dB
Radiated emission > 1GHz	±4.51 dB
Time	±0.1%
Temperature	±0.4 ^{o}C

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	22°C / 58%	Akun Chung
Radiated Emissions	03CH03-WS	25°C / 66%	Akun Chung Roger Lu
RF Conducted	TH01-WS	21°C / 63%	Brad Wu

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Frequency band 5150~5250 MHz / 5250~5350 MHz / 5470~5725 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate (Mbps) / MCS**	**Test Configuration**
Conducted Emissions	11a	5300	6 Mbps	---
Radiated Emissions ≤1GHz	11a	5300	6 Mbps	---
RF Output Power	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS	
Radiated Emissions >1GHz Emission Bandwidth Peak Power Spectral Density	11a	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	6 Mbps	---
	VHT20	5180 / 5200 / 5240 / 5260 / 5300 5320 / 5500 / 5580 / 5700 / 5720	MCS 0	
	VHT40	5190 / 5230/ 5270 / 5310 / 5510 5590 / 5670 / 5710	MCS 0	
	VHT80	5210 / 5290 / 5530 / 5610 / 5690	MCS 0	
Frequency Stability	Un-modulation	5320	---	---

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.

Frequency band 5725-5850 MHz				
Test item	**Modulation Mode**	**Test Frequency (MHz)**	**Data Rate (Mbps) / MCS**	**Test Configuration**
Conducted Emissions	VHT40	5755	MCS 0	---
Radiated Emissions ≤1GHz	VHT40	5755	MCS 0	---
RF Output Power	11a	5745 / 5785 / 5825	6 Mbps	---
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Radiated Emissions >1GHz Emission Bandwidth 6dB bandwidth Peak Power Spectral Density	11a	5745 / 5785 / 5825	6 Mbps	---
	VHT20	5745 / 5785 / 5825	MCS 0	
	VHT40	5755 / 5795	MCS 0	
	VHT80	5775	MCS 0	
Frequency Stability	Un-modulation	5785	---	---

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** results were found as the worst case and were shown in this report.

3 Transmitter Test Results

3.1 Conducted Emissions

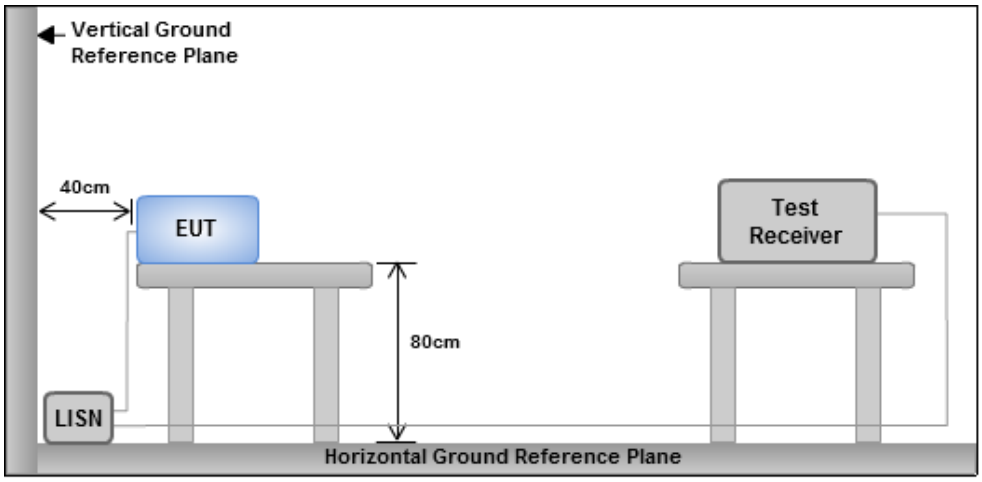
3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	**Quasi-Peak**	**Average**
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V/60Hz

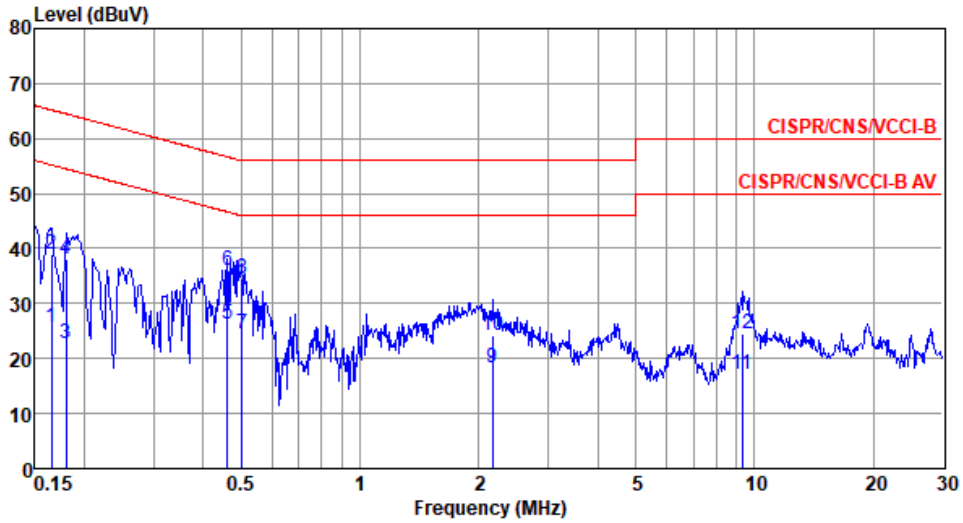
3.1.3 Test Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

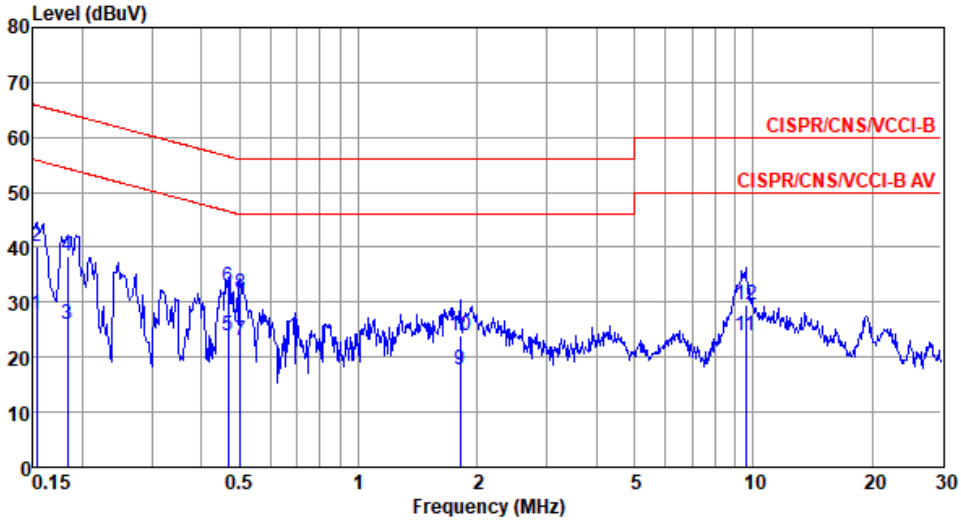
Modulation	11a	Test Freq. (MHz)	5300
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.165	25.66	55.21	-29.55	16.08	9.53	0.05	Average
2	0.165	38.94	65.21	-26.27	29.36	9.53	0.05	QP
3	0.180	22.83	54.50	-31.67	13.23	9.54	0.06	Average
4	0.180	38.03	64.50	-26.47	28.43	9.54	0.06	QP
5*	0.461	26.37	46.67	-20.30	16.71	9.57	0.09	Average
6	0.461	36.14	56.67	-20.53	26.48	9.57	0.09	QP
7	0.502	24.38	46.00	-21.62	14.71	9.58	0.09	Average
8	0.502	34.58	56.00	-21.42	24.91	9.58	0.09	QP
9	2.167	18.41	46.00	-27.59	8.62	9.60	0.19	Average
10	2.167	24.28	56.00	-31.72	14.49	9.60	0.19	QP
11	9.302	17.14	50.00	-32.86	7.11	9.65	0.38	Average
12	9.302	24.55	60.00	-35.45	14.52	9.65	0.38	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

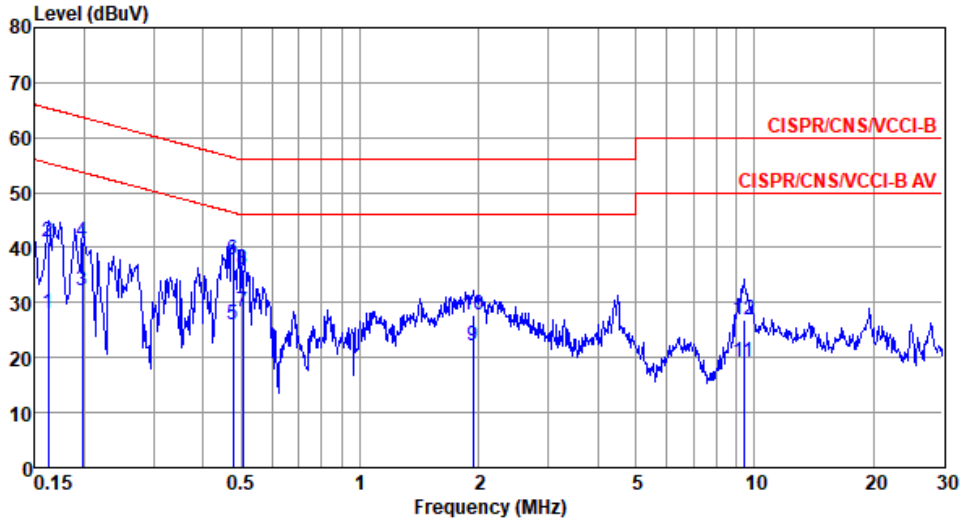
Modulation	11a	Test Freq. (MHz)	5300
Power Phase	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.153	27.67	55.82	-28.15	18.05	9.57	0.05	Average
2	0.153	40.00	65.82	-25.82	30.38	9.57	0.05	QP
3	0.183	25.86	54.33	-28.47	16.22	9.58	0.06	Average
4	0.183	38.46	64.33	-25.87	28.82	9.58	0.06	QP
5*	0.469	23.83	46.54	-22.71	14.12	9.62	0.09	Average
6	0.469	32.65	56.54	-23.89	22.94	9.62	0.09	QP
7	0.502	23.04	46.00	-22.96	13.33	9.62	0.09	Average
8	0.502	31.71	56.00	-24.29	22.00	9.62	0.09	QP
9	1.810	17.79	46.00	-28.21	7.97	9.65	0.17	Average
10	1.810	23.85	56.00	-32.15	14.03	9.65	0.17	QP
11	9.552	23.88	50.00	-26.12	13.79	9.71	0.38	Average
12	9.552	29.55	60.00	-30.45	19.46	9.71	0.38	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

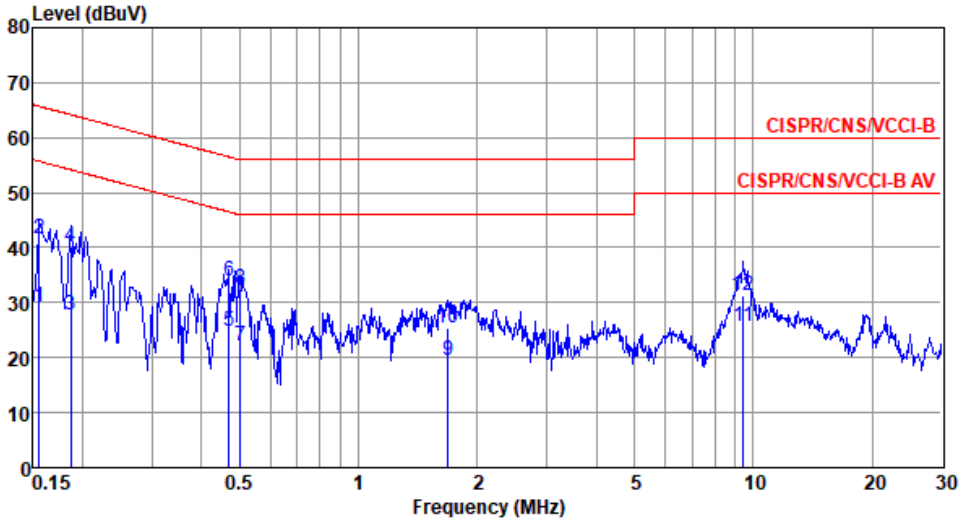
Modulation	VHT40	Test Freq. (MHz)	5755
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.162	27.93	55.34	-27.41	18.35	9.53	0.05	Average
2	0.162	41.07	65.34	-24.27	31.49	9.53	0.05	QP
3	0.198	32.05	53.71	-21.66	22.45	9.54	0.06	Average
4	0.198	40.99	63.71	-22.72	31.39	9.54	0.06	QP
5	0.476	26.00	46.41	-20.41	16.33	9.58	0.09	Average
6	0.476	37.78	56.41	-18.63	28.11	9.58	0.09	QP
7*	0.505	28.43	46.00	-17.57	18.76	9.58	0.09	Average
8	0.505	36.07	56.00	-19.93	26.40	9.58	0.09	QP
9	1.939	22.27	46.00	-23.73	12.49	9.60	0.18	Average
10	1.939	27.87	56.00	-28.13	18.09	9.60	0.18	QP
11	9.401	19.30	50.00	-30.70	9.27	9.65	0.38	Average
12	9.401	26.96	60.00	-33.04	16.93	9.65	0.38	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	VHT40	Test Freq. (MHz)	5755
Power Phase	Neutral		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.156	29.23	55.69	-26.46	19.61	9.57	0.05	Average
2	0.156	41.57	65.69	-24.12	31.95	9.57	0.05	QP
3	0.186	27.89	54.20	-26.31	18.25	9.58	0.06	Average
4	0.186	40.18	64.20	-24.02	30.54	9.58	0.06	QP
5*	0.471	24.93	46.49	-21.56	15.22	9.62	0.09	Average
6	0.471	33.88	56.49	-22.61	24.17	9.62	0.09	QP
7	0.502	22.27	46.00	-23.73	12.56	9.62	0.09	Average
8	0.502	32.48	56.00	-23.52	22.77	9.62	0.09	QP
9	1.689	19.57	46.00	-26.43	9.75	9.65	0.17	Average
10	1.689	25.45	56.00	-30.55	15.63	9.65	0.17	QP
11	9.451	25.65	50.00	-24.35	15.56	9.71	0.38	Average
12	9.451	31.41	60.00	-28.59	21.32	9.71	0.38	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

3.2 Emission Bandwidth

3.2.1 Limit of Emission Bandwidth

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.2.2 Test Procedures

26dB Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW, Detector = Peak.
3. Trace mode = max hold.
4. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

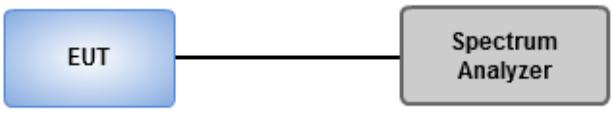
Occupied Bandwidth

1. Set RBW = 1 % to 5 % of the OBW.
2. Set VBW ≥ 3 RBW.
3. Sample detection and single sweep mode shall be used.
4. Use the 99 % power bandwidth function of the instrument.

6dB Bandwidth

1. Set RBW = 100kHz, VBW = 300kHz.
2. Detector = Peak,Trace mode = max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.2.3 Test Setup



3.2.4 Test Result of Emission Bandwidth

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	47.029M	31.404M	31M4D1D	20M	16.281M
802.11ac VHT20_Nss1,(MCS0)_1TX	47.826M	32.272M	32M3D1D	21.159M	17.438M
802.11ac VHT40_Nss1,(MCS0)_1TX	76.957M	37.916M	37M9D1D	40.725M	35.745M
802.11ac VHT80_Nss1,(MCS0)_1TX	84.928M	75.253M	75M3D1D	84.928M	75.253M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	46.377M	32.2M	32M2D1D	29.13M	16.498M
802.11ac VHT20_Nss1,(MCS0)_1TX	47.899M	32.2M	32M2D1D	26.377M	17.728M
802.11ac VHT40_Nss1,(MCS0)_1TX	91.594M	60.637M	60M6D1D	42.174M	35.89M
802.11ac VHT80_Nss1,(MCS0)_1TX	82.029M	74.964M	75M0D1D	82.029M	74.964M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	27.826M	16.57M	16M6D1D	15.043M	13.025M
802.11ac VHT20_Nss1,(MCS0)_1TX	26.739M	17.583M	17M6D1D	15.565M	13.632M
802.11ac VHT40_Nss1,(MCS0)_1TX	77.536M	39.219M	39M2D1D	40.725M	33.025M
802.11ac VHT80_Nss1,(MCS0)_1TX	175.942M	89.219M	89M2D1D	85.217M	75.253M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	15.145M	22.793M	22M8D1D	3.304M	9.667M
802.11ac VHT20_Nss1,(MCS0)_1TX	15.145M	19.826M	19M8D1D	2.667M	8.683M
802.11ac VHT40_Nss1,(MCS0)_1TX	35.072M	50.072M	50M1D1D	3.014M	29.754M
802.11ac VHT80_Nss1,(MCS0)_1TX	75.072M	80.174M	80M2D1D	3.246M	38.842M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth;

Result

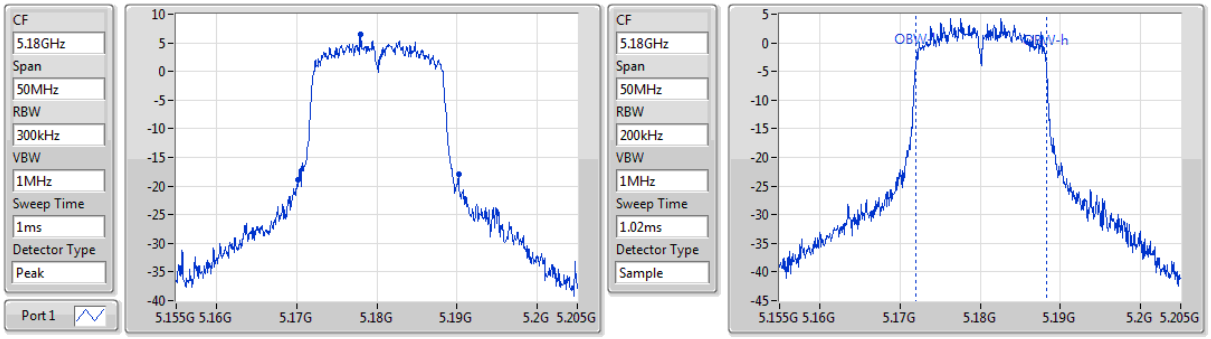
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	20M	16.281M
5200MHz	Pass	Inf	47.029M	31.404M
5240MHz	Pass	Inf	30.145M	16.57M
5260MHz	Pass	Inf	46.377M	32.2M
5300MHz	Pass	Inf	46.232M	31.404M
5320MHz	Pass	Inf	29.13M	16.498M
5500MHz	Pass	Inf	19.13M	16.208M
5580MHz	Pass	Inf	27.826M	16.57M
5700MHz	Pass	Inf	18.696M	16.281M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.043M	13.025M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.304M	9.667M
5745MHz	Pass	500k	14.493M	16.57M
5785MHz	Pass	500k	14.058M	22.793M
5825MHz	Pass	500k	15.145M	16.787M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	21.159M	17.438M
5200MHz	Pass	Inf	47.826M	32.272M
5240MHz	Pass	Inf	29.058M	17.728M
5260MHz	Pass	Inf	46.304M	31.042M
5300MHz	Pass	Inf	47.899M	32.2M
5320MHz	Pass	Inf	26.377M	17.728M
5500MHz	Pass	Inf	19.928M	17.438M
5580MHz	Pass	Inf	26.739M	17.583M
5700MHz	Pass	Inf	19.638M	17.438M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.565M	13.632M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	2.667M	8.683M
5745MHz	Pass	500k	15.145M	17.873M
5785MHz	Pass	500k	15.145M	19.826M
5825MHz	Pass	500k	14.203M	18.524M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	40.725M	35.745M
5230MHz	Pass	Inf	76.957M	37.916M
5270MHz	Pass	Inf	91.594M	60.637M
5310MHz	Pass	Inf	42.174M	35.89M
5510MHz	Pass	Inf	40.725M	35.89M
5590MHz	Pass	Inf	77.536M	39.219M
5670MHz	Pass	Inf	40.87M	35.745M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	48.087M	33.025M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	3.014M	29.754M
5755MHz	Pass	500k	35.072M	46.31M
5795MHz	Pass	500k	32.609M	50.072M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	84.928M	75.253M
5290MHz	Pass	Inf	82.029M	74.964M
5530MHz	Pass	Inf	85.217M	75.253M
5610MHz	Pass	Inf	175.942M	85.673M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	121.957M	89.219M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	3.246M	38.842M
5775MHz	Pass	500k	75.072M	80.174M

Port X-N dB = Port **X** 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port **X** 99% occupied bandwidth;

802.11a_Nss1,(6Mbps)_1TX EBW

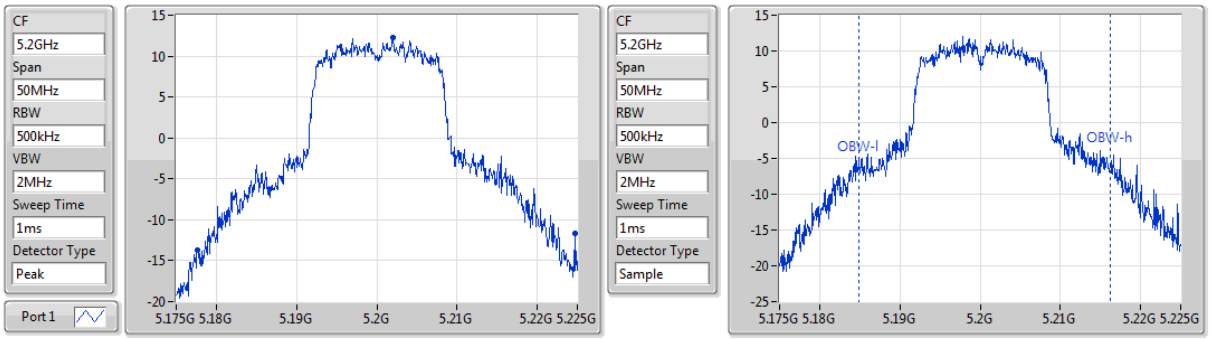
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
20M	5.170217G	5.190217G	16.281M	5.171968G	5.188249G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

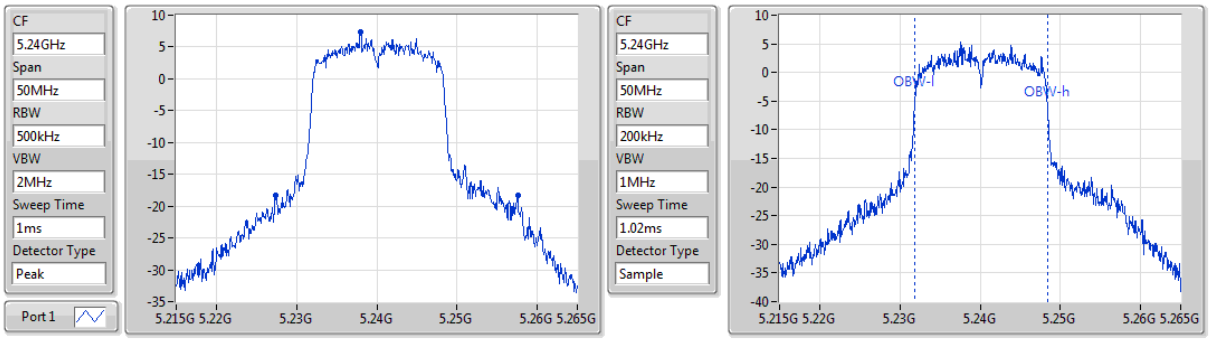
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
47.029M	5.177681G	5.22471G	31.404M	5.184877G	5.216281G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

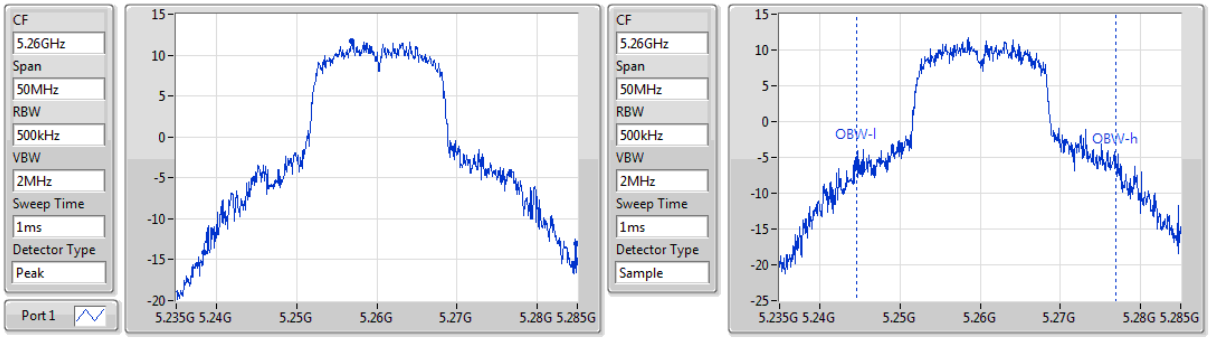
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.145M	5.227464G	5.257609G	16.57M	5.231896G	5.248466G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

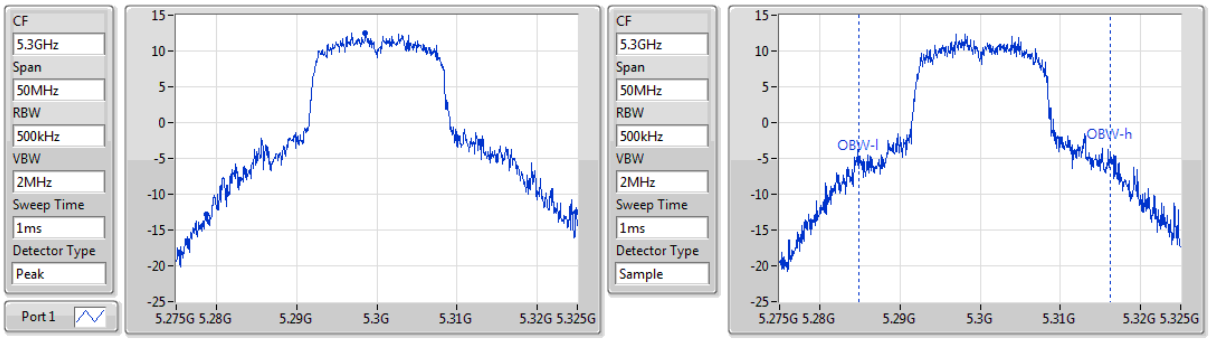
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
46.377M	5.238478G	5.284855G	32.2M	5.24466G	5.27686G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

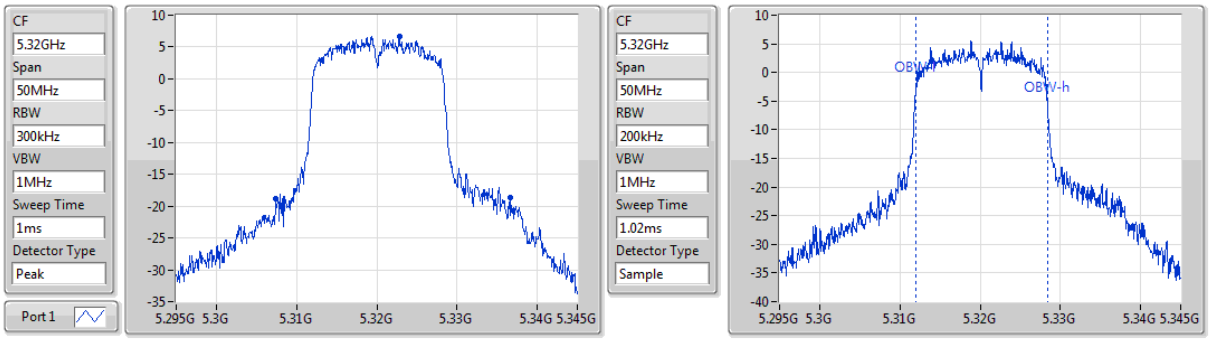
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
46.232M	5.278696G	5.324928G	31.404M	5.284877G	5.316281G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

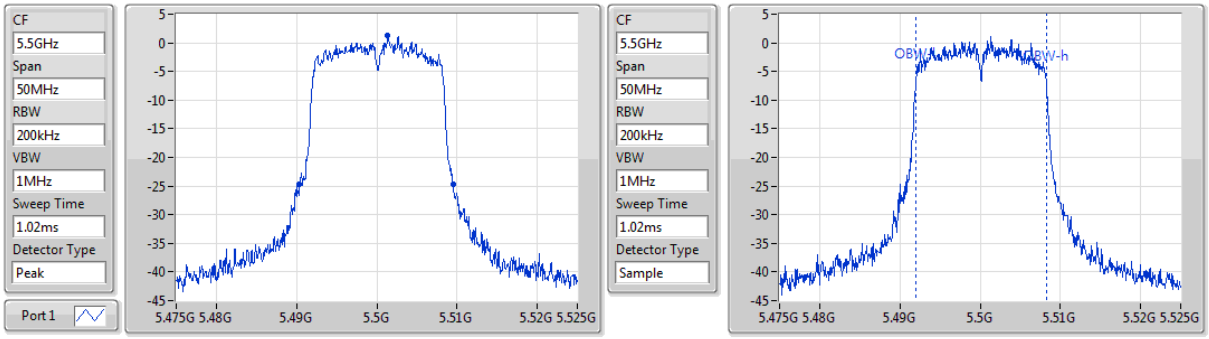
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.13M	5.307464G	5.336594G	16.498M	5.311968G	5.328466G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

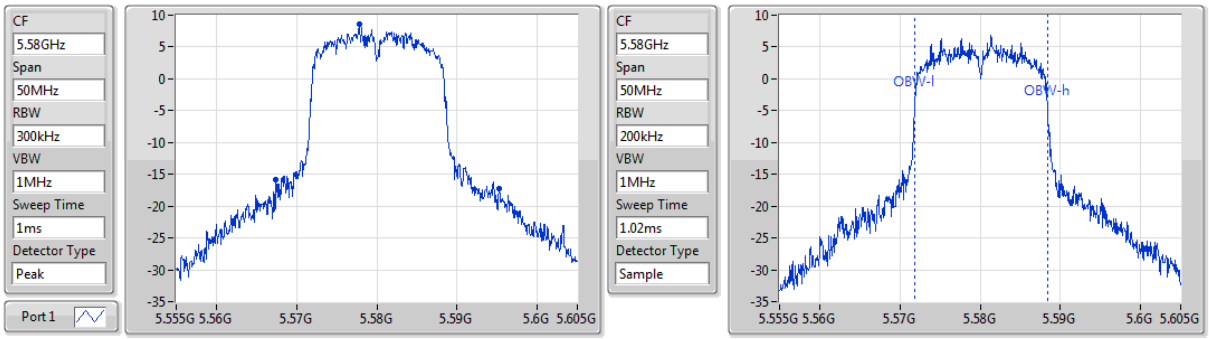
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.13M	5.490362G	5.509493G	16.208M	5.492041G	5.508249G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

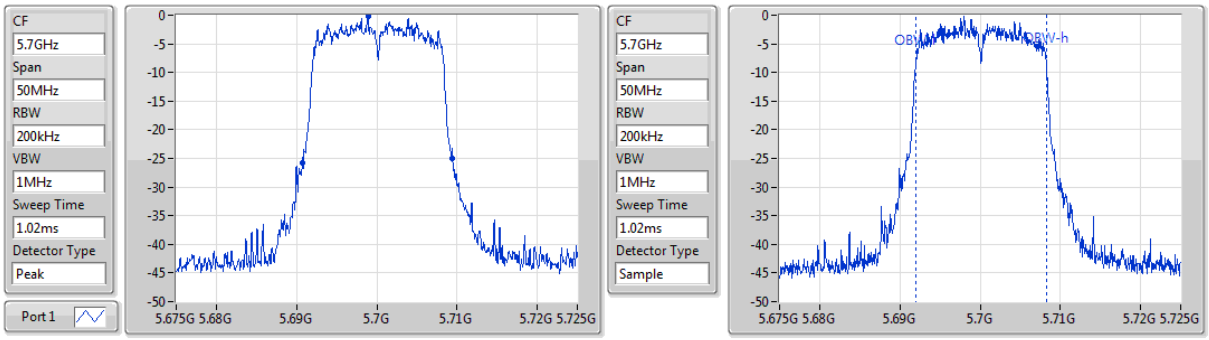
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
27.826M	5.567464G	5.59529G	16.57M	5.571896G	5.588466G	Inf	1

802.11a_Nss1,(6Mbps)_1TX EBW

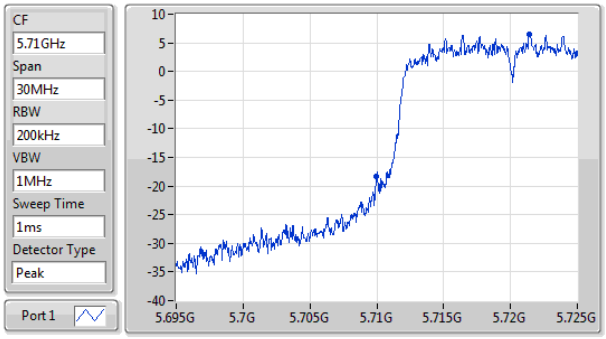
5700MHz

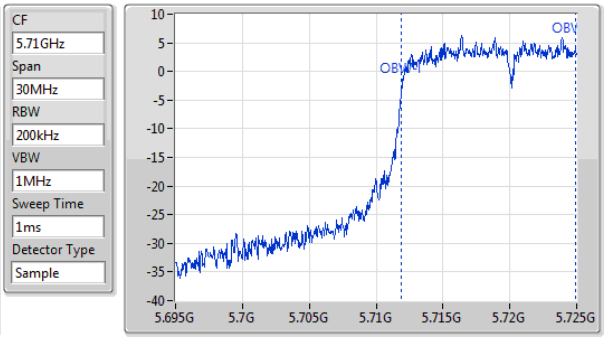


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.696M	5.690725G	5.70942G	16.281M	5.691968G	5.708249G	Inf	1

802.11a_Nss1,(6Mbps)_1TX — EBW

5720MHz Straddle 5.47-5.725GHz

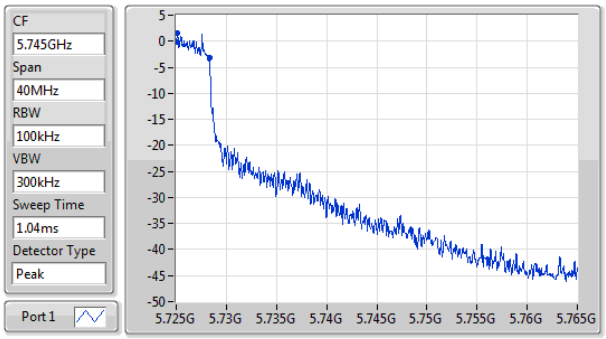


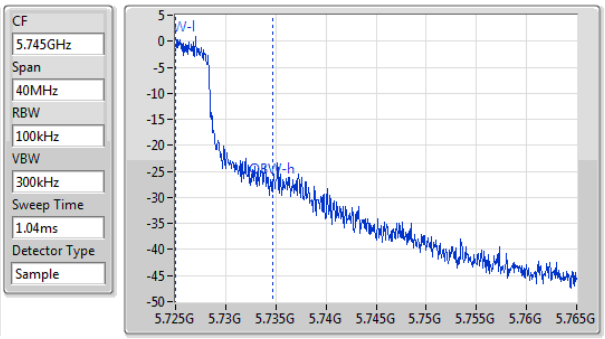


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.043M	5.709957G	5.725G	13.025M	5.71191G	5.724935G	Inf	1

802.11a_Nss1,(6Mbps)_1TX — EBW

5720MHz Straddle 5.725-5.85GHz

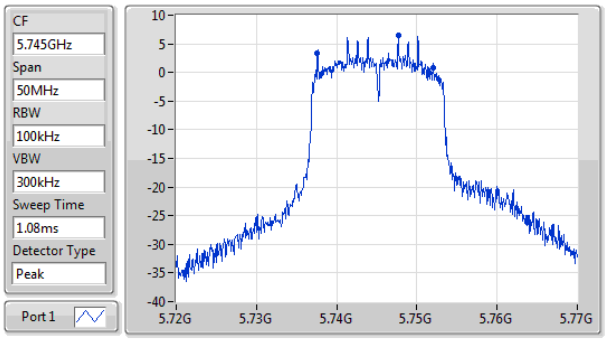


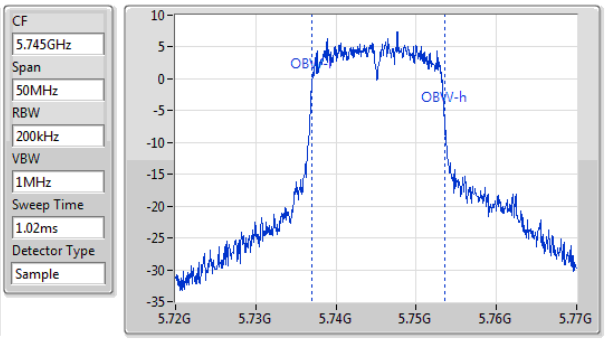


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.304M	5.725G	5.728304G	9.667M	5.725029G	5.734696G	500k	1

802.11a_Nss1,(6Mbps)_1TX — EBW

5745MHz

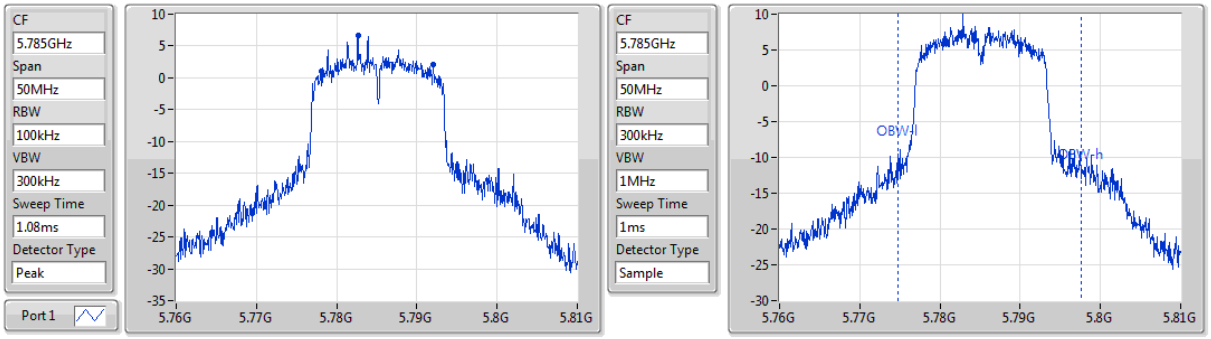




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.493M	5.737609G	5.752101G	16.57M	5.736968G	5.753538G	500k	1

802.11a_Nss1,(6Mbps)_1TX EBW

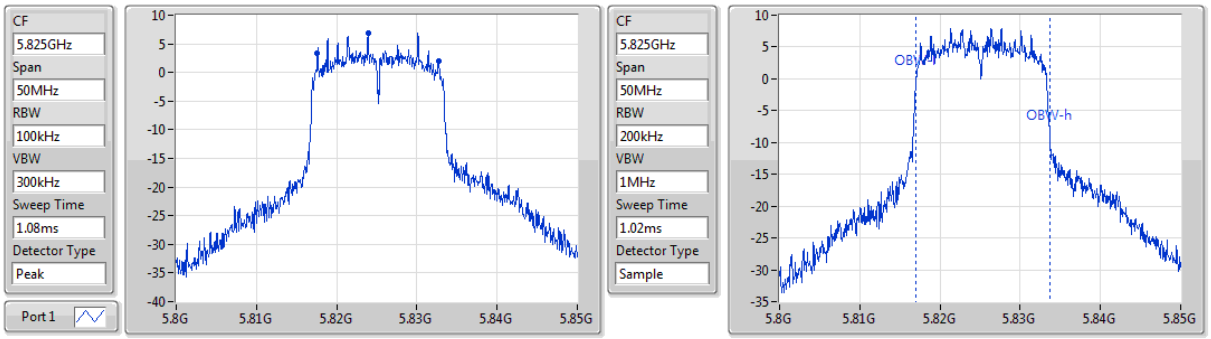
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.058M	5.778043G	5.792101G	22.793M	5.774797G	5.79759G	500k	1

802.11a_Nss1,(6Mbps)_1TX EBW

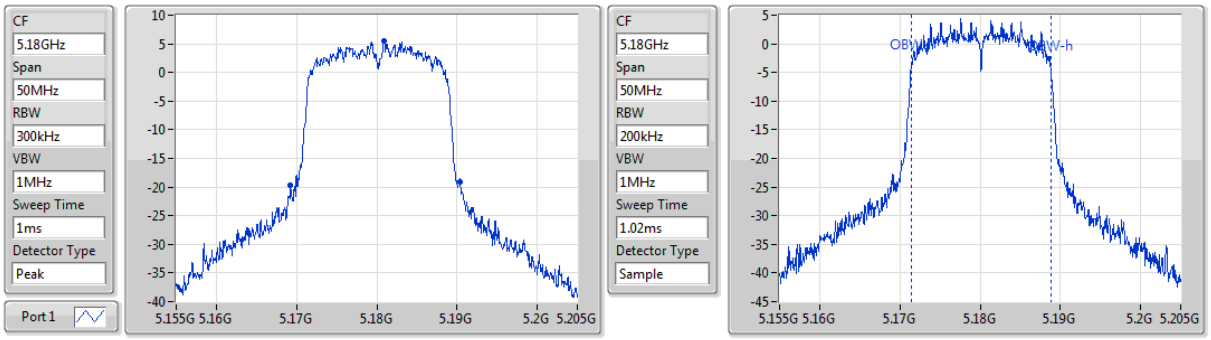
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.145M	5.817609G	5.832754G	16.787M	5.816968G	5.833755G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

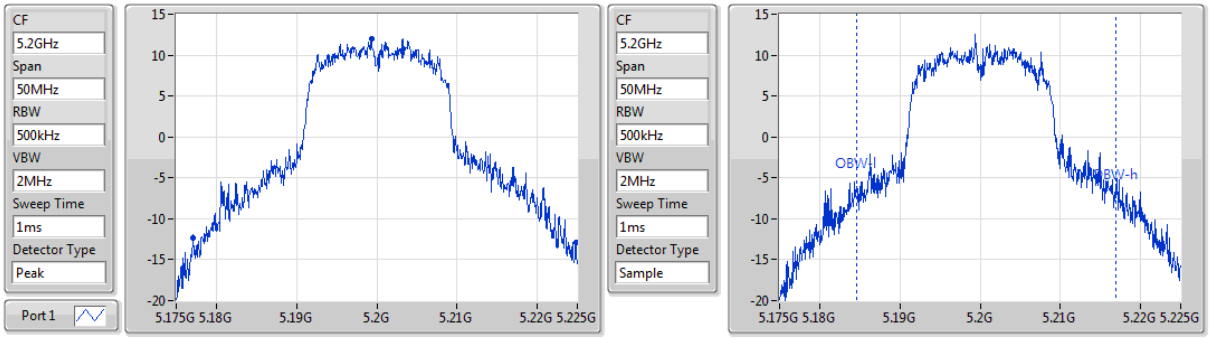
5180MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.159M	5.169275G	5.190435G	17.438M	5.171389G	5.188828G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

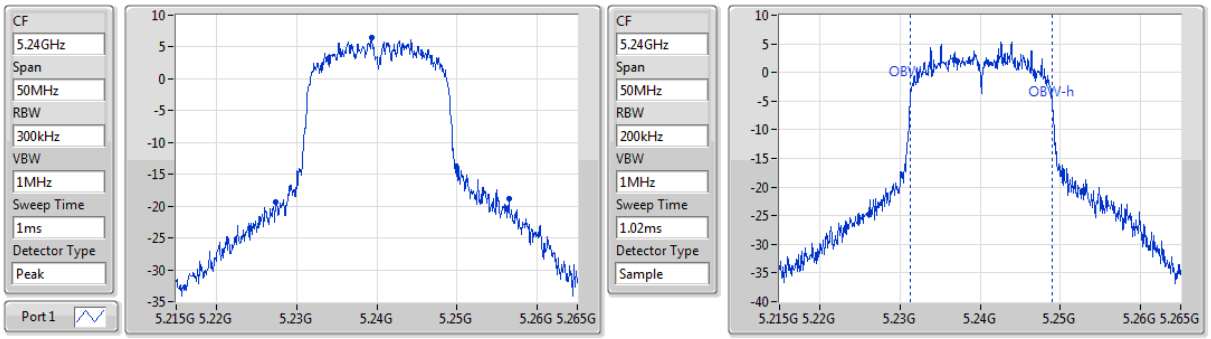
5200MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
47.826M	5.177029G	5.224855G	32.272M	5.184588G	5.21686G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

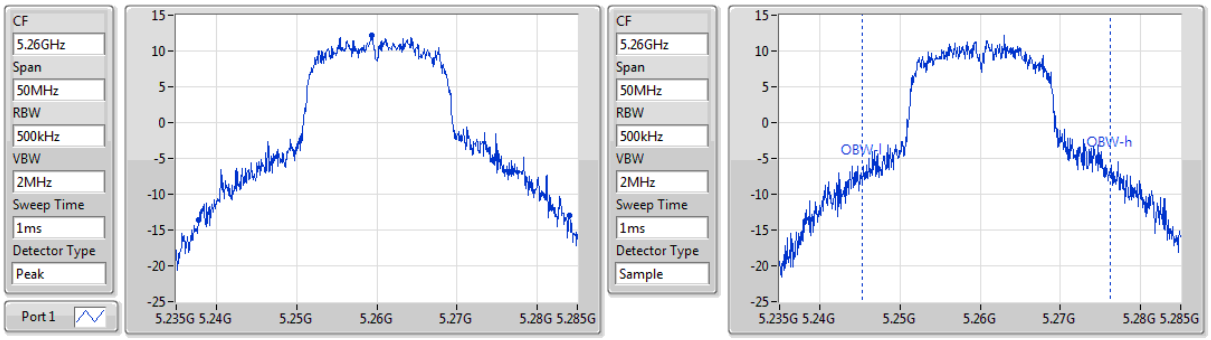
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
29.058M	5.227391G	5.256449G	17.728M	5.231317G	5.249045G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

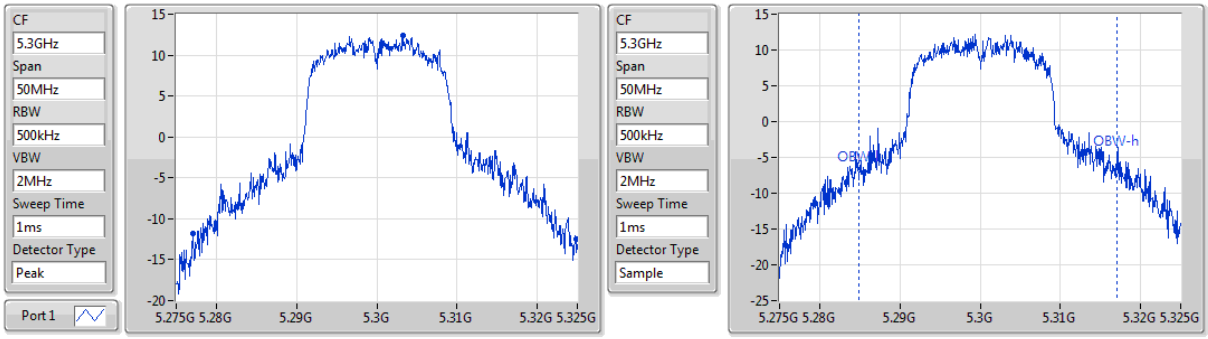
5260MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
46.304M	5.237754G	5.284058G	31.042M	5.245239G	5.276281G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

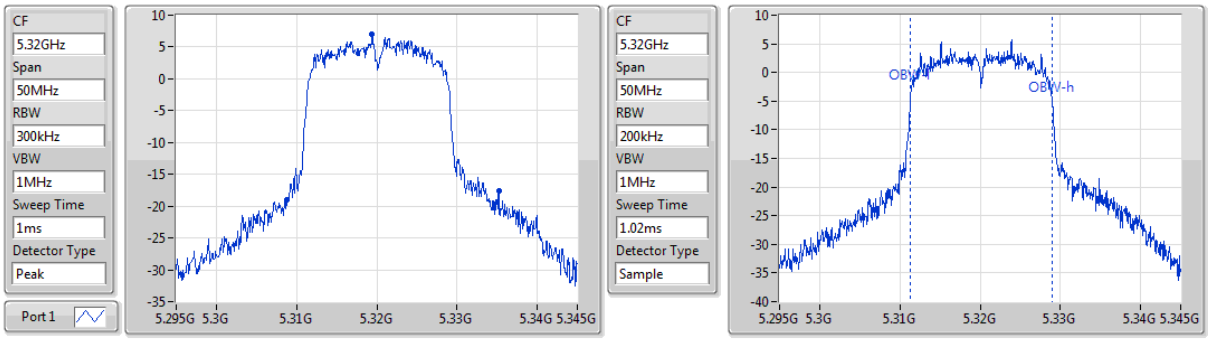
5300MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
47.899M	5.277029G	5.324928G	32.2M	5.284877G	5.317077G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

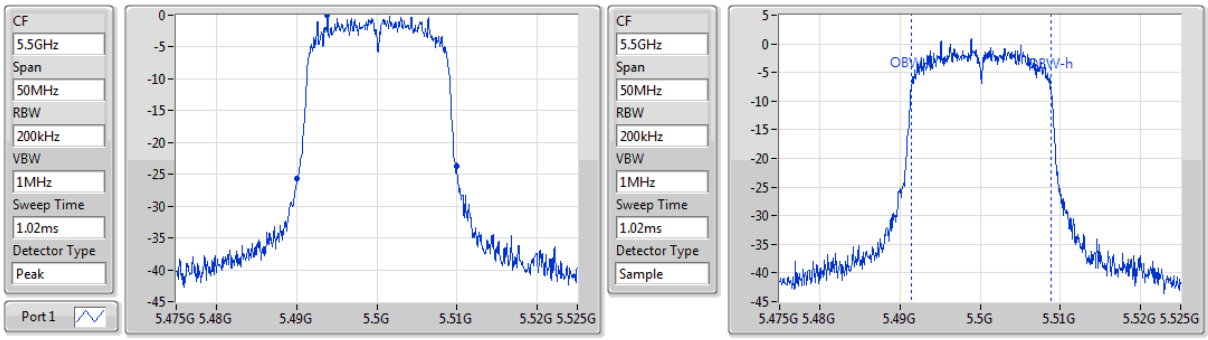
5320MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.377M	5.308841G	5.335217G	17.728M	5.311317G	5.329045G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

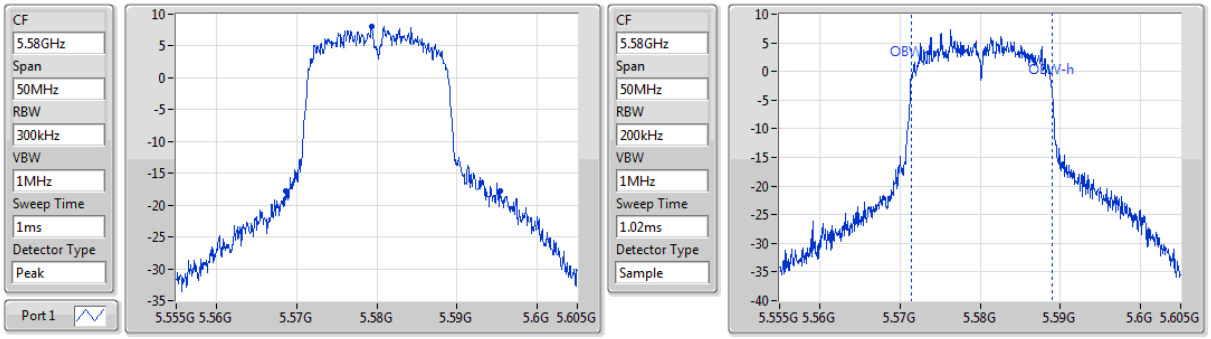
5500MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.928M	5.490072G	5.51G	17.438M	5.491389G	5.508828G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

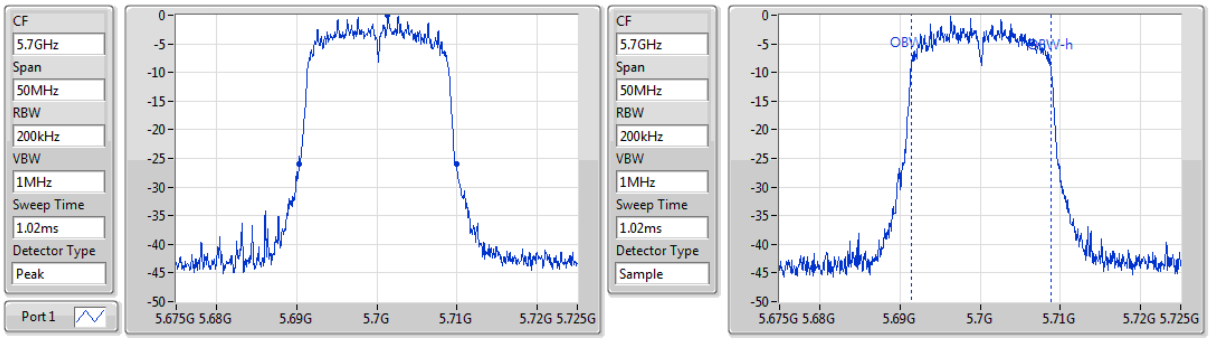
5580MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.739M	5.568696G	5.595435G	17.583M	5.571389G	5.588973G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

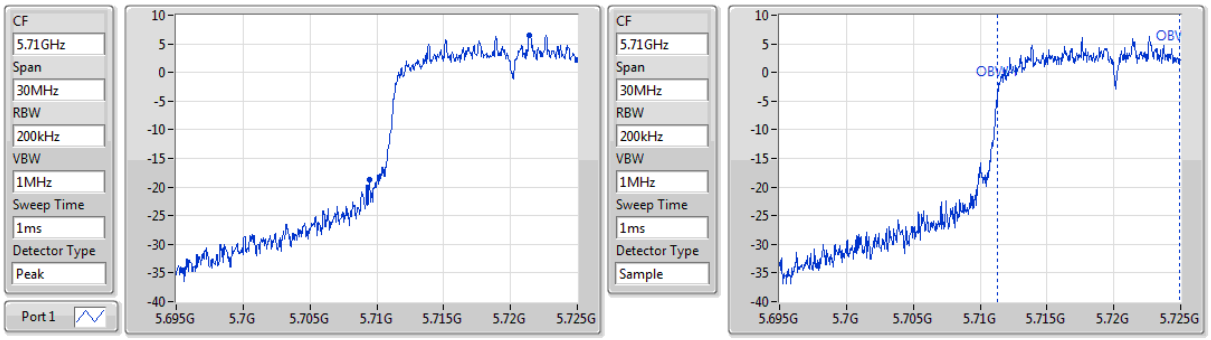
5700MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.638M	5.69029G	5.709928G	17.438M	5.691389G	5.708828G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

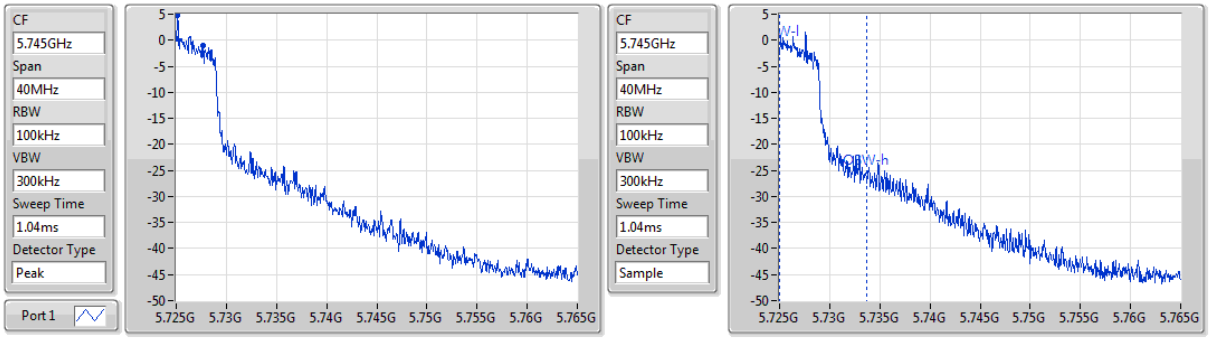
5720MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.565M	5.709435G	5.725G	13.632M	5.711302G	5.724935G	Inf	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

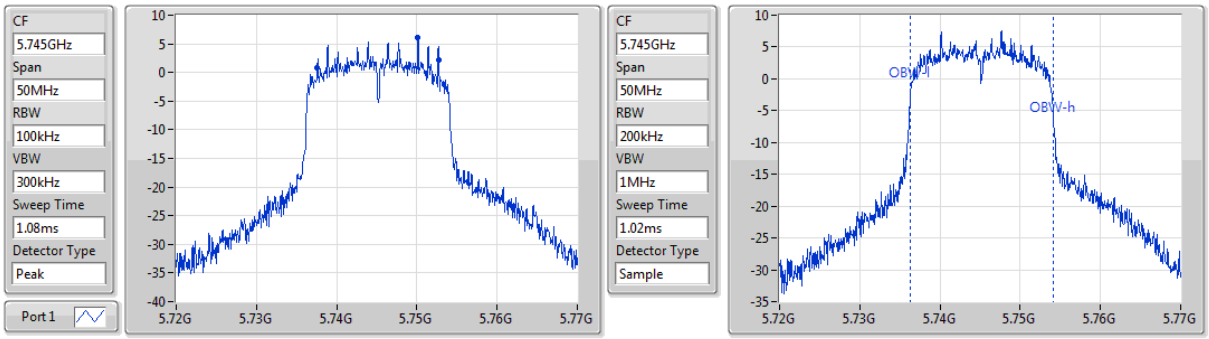
5720MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
2.667M	5.725G	5.727667G	8.683M	5.725029G	5.733712G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

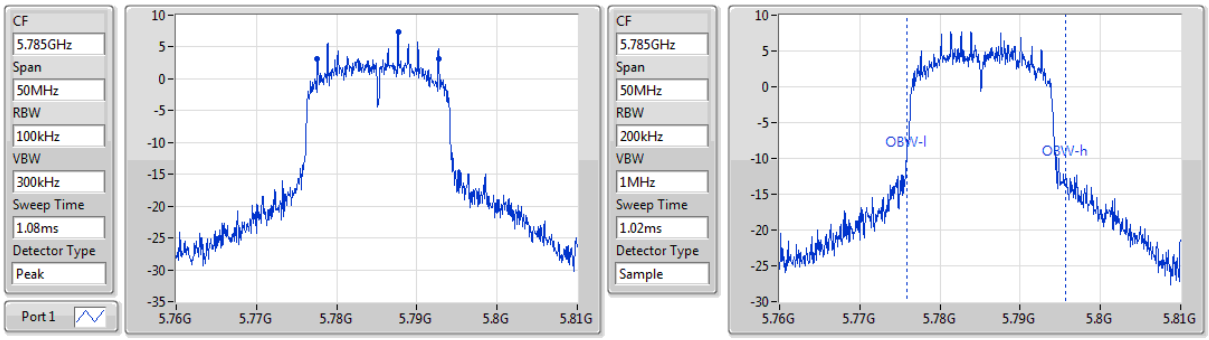
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.145M	5.737609G	5.752754G	17.873M	5.736317G	5.75419G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

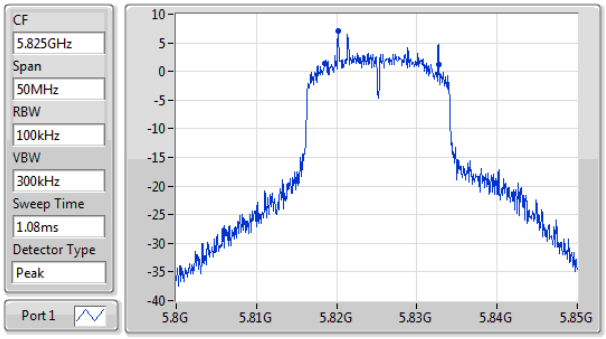
5785MHz

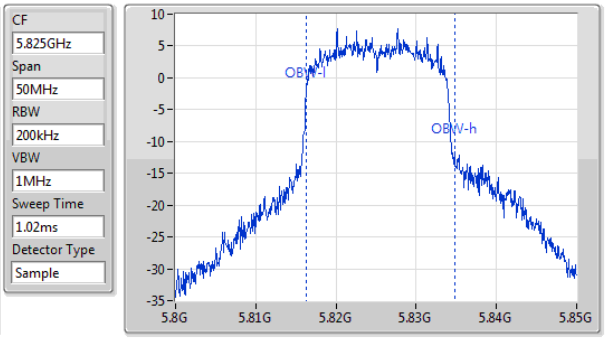


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
15.145M	5.777609G	5.792754G	19.826M	5.77581G	5.795637G	500k	1

802.11ac VHT20_Nss1,(MCS0)_1TX EBW

5825MHz

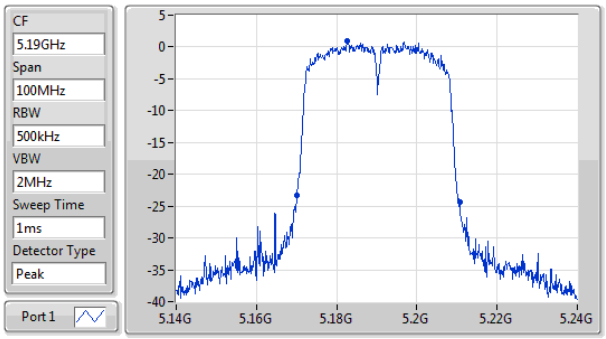


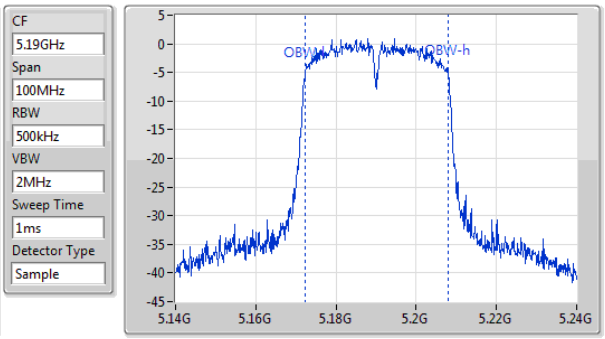


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
14.203M	5.818551G	5.832754G	18.524M	5.816245G	5.834768G	500k	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5190MHz

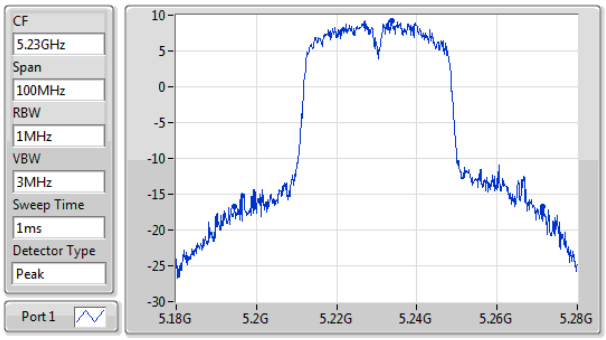


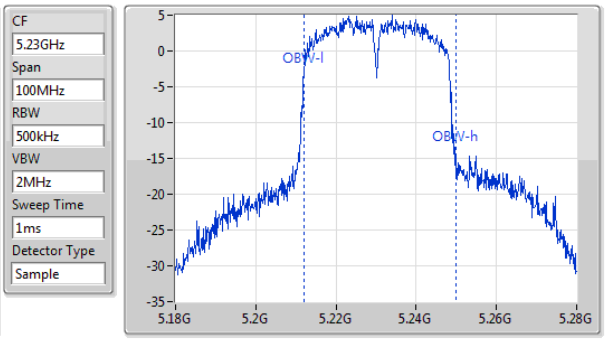


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.725M	5.17G	5.210725G	35.745M	5.1722G	5.207945G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5230MHz

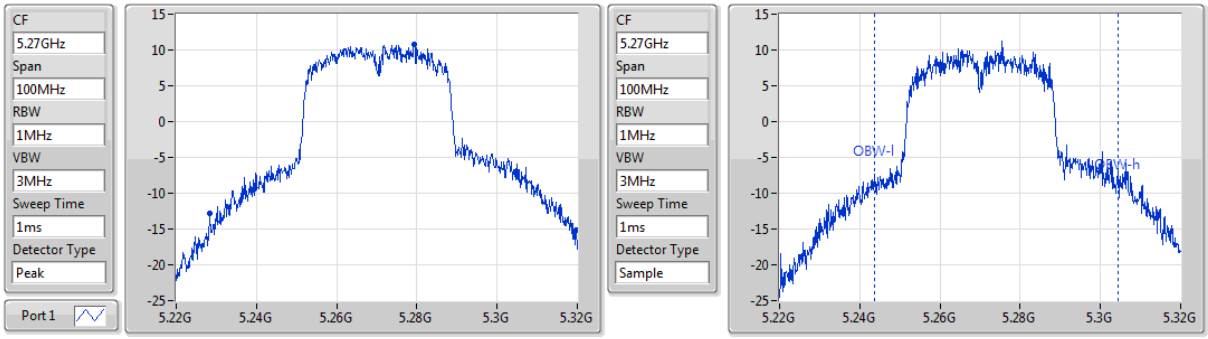




26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
76.957M	5.194493G	5.271449G	37.916M	5.21191G	5.249826G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

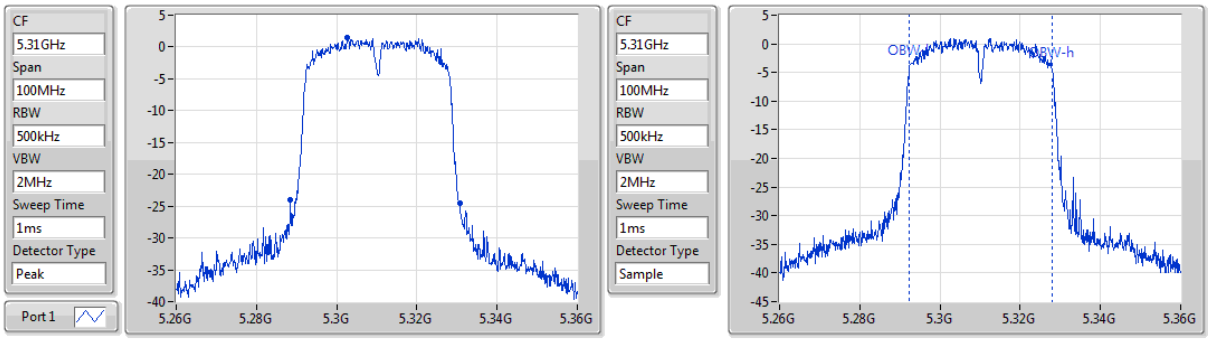
5270MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
91.594M	5.228261G	5.319855G	60.637M	5.243661G	5.304298G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

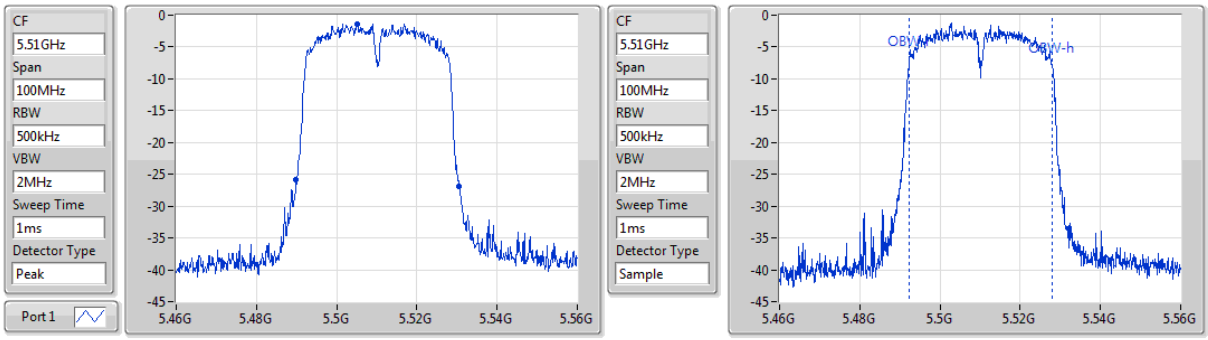
5310MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.174M	5.288551G	5.330725G	35.89M	5.2922G	5.32809G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

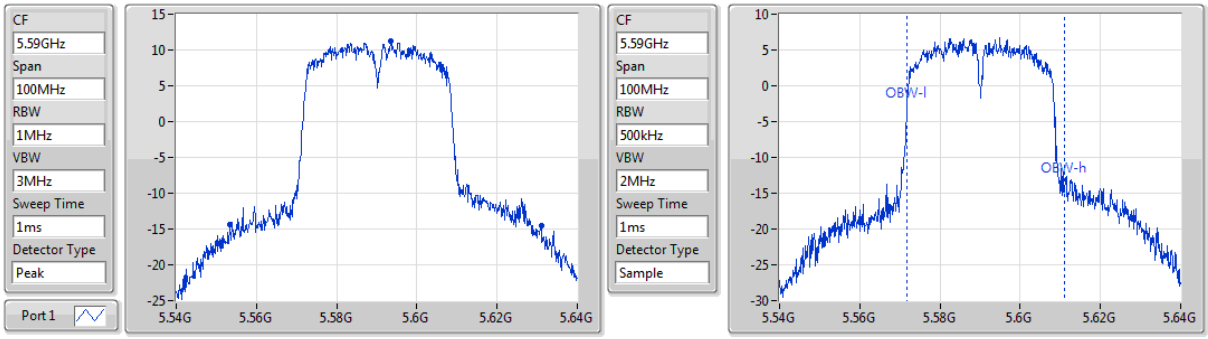
5510MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.725M	5.489855G	5.53058G	35.89M	5.4922G	5.52809G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

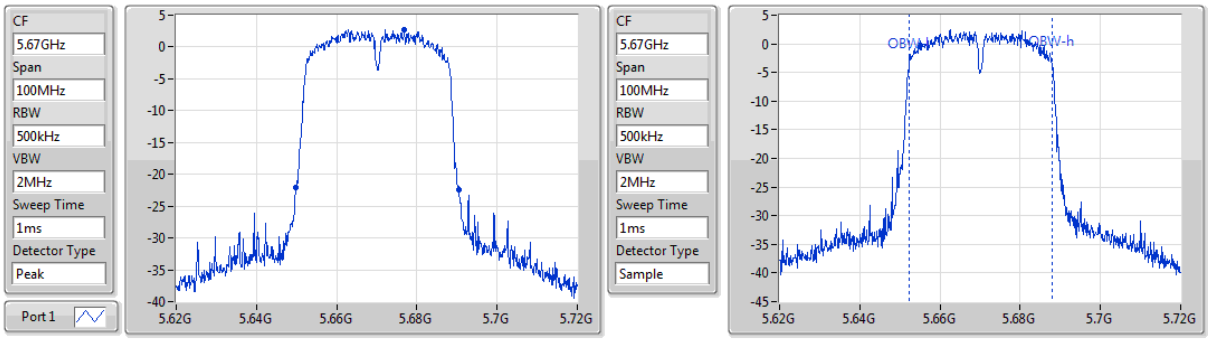
5590MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
77.536M	5.553478G	5.631014G	39.219M	5.571766G	5.610984G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

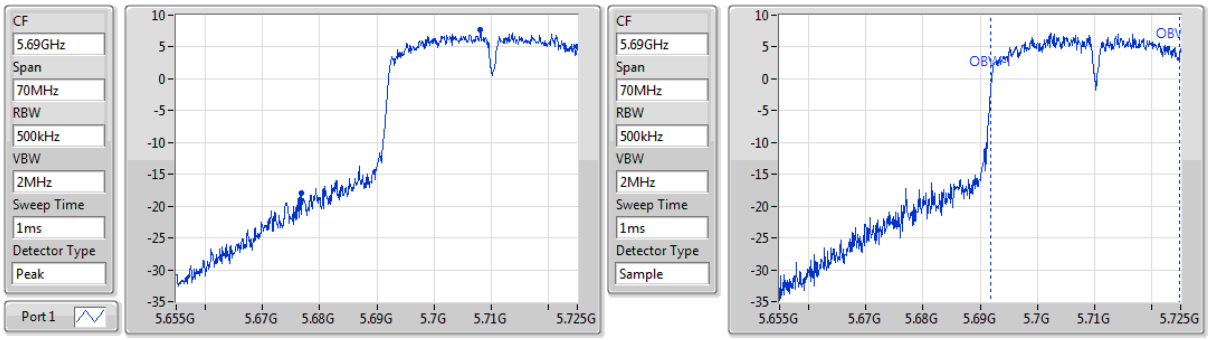
5670MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
40.87M	5.64971G	5.69058G	35.745M	5.6522G	5.687945G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

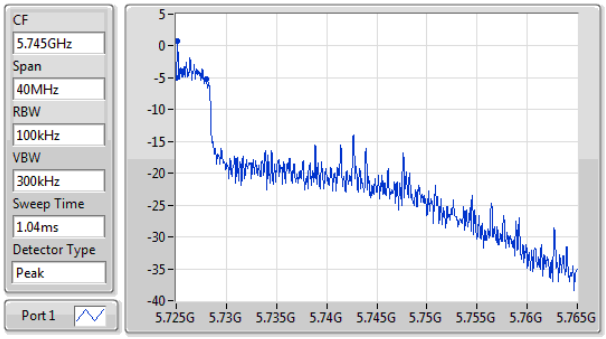
5710MHz Straddle 5.47-5.725GHz

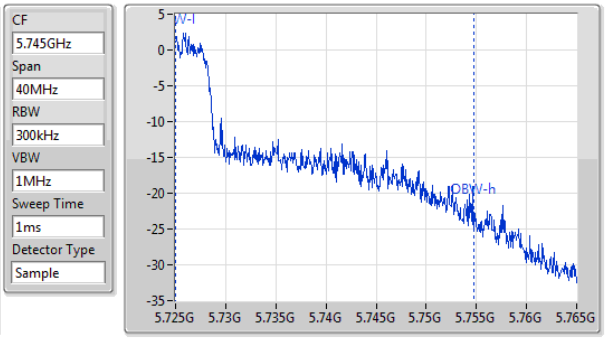


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
48.087M	5.676913G	5.725G	33.025M	5.691823G	5.724848G	Inf	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5710MHz Straddle 5.725-5.85GHz

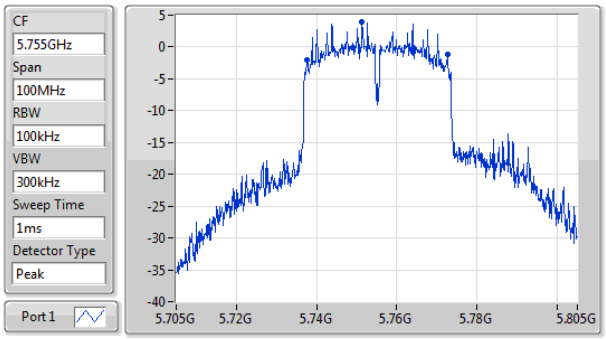


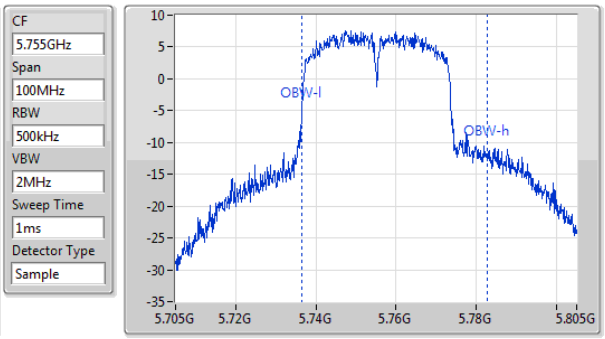


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.014M	5.725G	5.728014G	29.754M	5.725029G	5.754783G	500k	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5755MHz

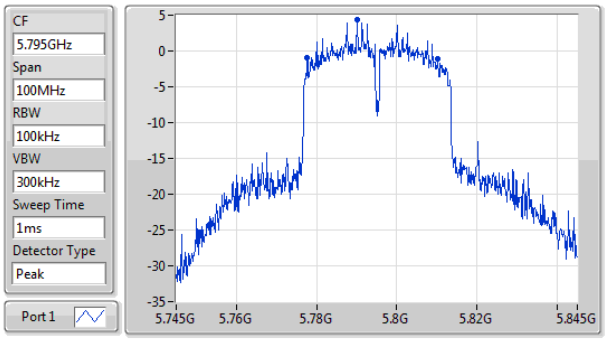


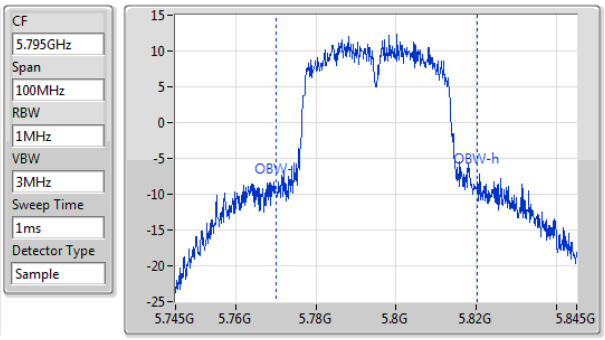


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
35.072M	5.737609G	5.772681G	46.31M	5.736476G	5.782786G	500k	1

802.11ac VHT40_Nss1,(MCS0)_1TX EBW

5795MHz

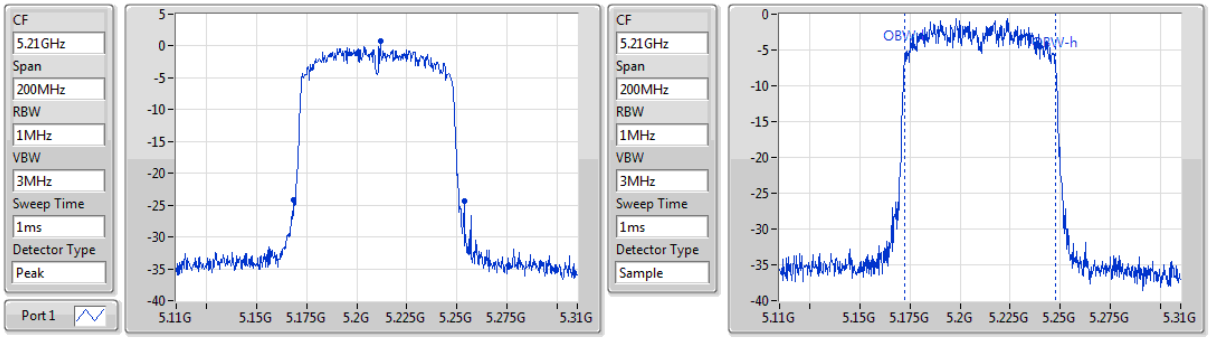




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.609M	5.777609G	5.810217G	50.072M	5.770109G	5.820181G	500k	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

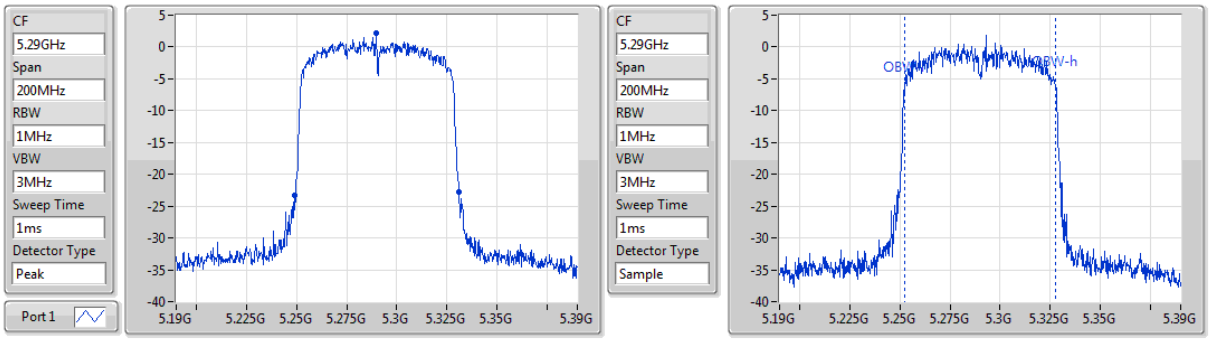
5210MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
84.928M	5.168551G	5.253478G	75.253M	5.172373G	5.247627G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

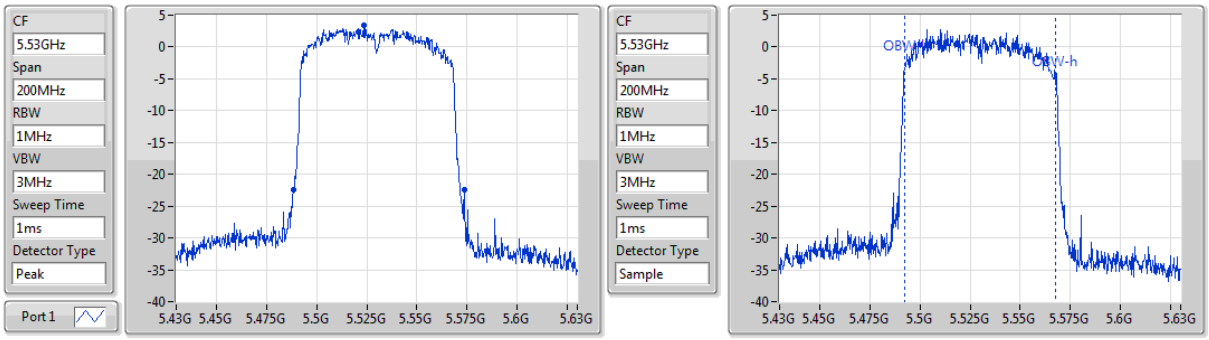
5290MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.029M	5.24913G	5.331159G	74.964M	5.252663G	5.327627G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

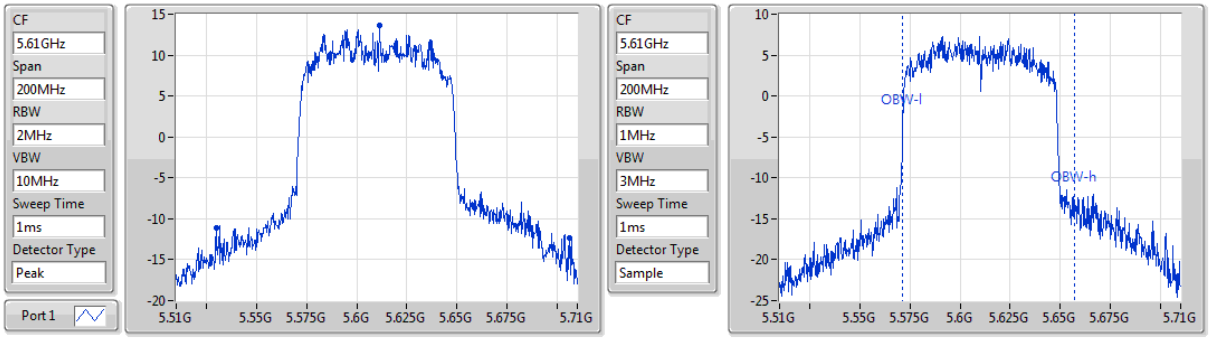
5530MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
85.217M	5.488261G	5.573478G	75.253M	5.492373G	5.567627G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

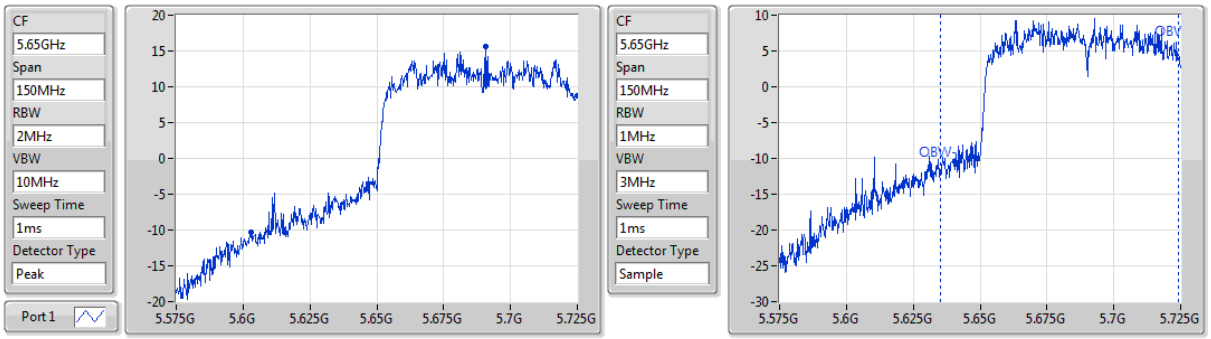
5610MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
175.942M	5.53G	5.705942G	85.673M	5.571505G	5.657178G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

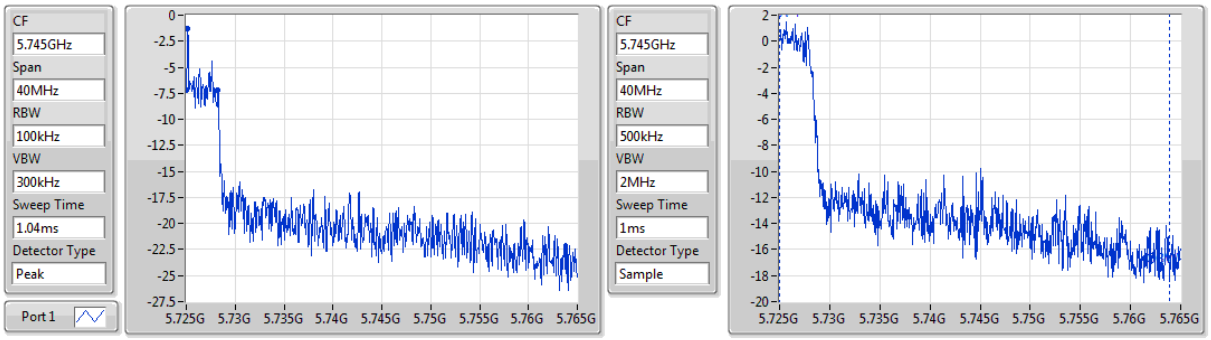
5690MHz Straddle 5.47-5.725GHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
121.957M	5.603043G	5.725G	89.219M	5.635022G	5.72424G	Inf	1

802.11ac VHT80_Nss1,(MCS0)_1TX EBW

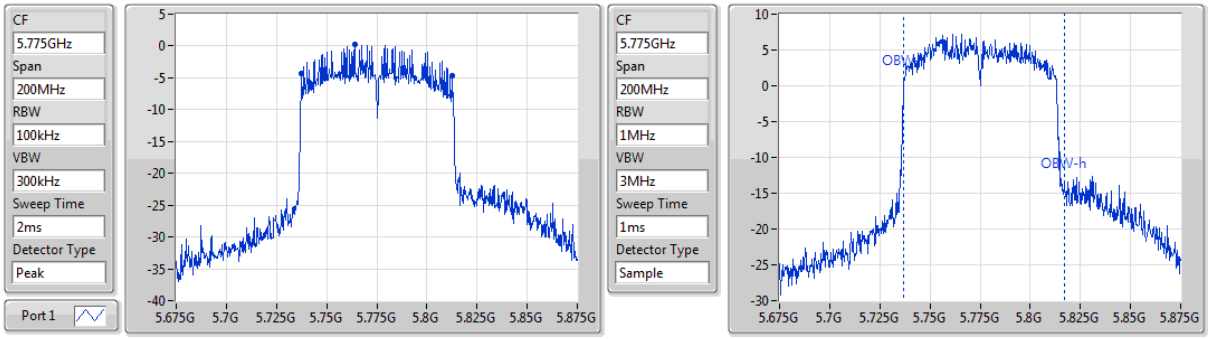
5690MHz Straddle 5.725-5.85GHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
3.246M	5.725G	5.728246G	38.842M	5.725029G	5.763871G	500k	1

802.11ac VHT80_Nss1,(MCS0)_1TX **EBW**

5775MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.072M	5.737609G	5.812681G	80.174M	5.737084G	5.817258G	500k	1

3.3 RF Output Power

3.3.1 Limit of RF Output Power

Frequency band 5150-5250 MHz		
Operating Mode		**Limit**
☐	Outdoor access point	Conducted Power: 1 W The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm)
☐	Indoor access point	Conducted Power: 1 W
☐	Fixed point-to-point access points	Conducted Power: 1 W
☒	Client devices	Conducted Power: 250 mW

Frequency Band (MHz)		**Limit**
☒	5250 ~ 5350	Conducted Power: 250mW or 11dBm+10 log B
☒	5470 ~ 5725	Conducted Power: 250mW or 11dBm+10 log B
☒	5725 ~ 5850	Conducted Power: 1 W
Note: “B” is the 26dB emission bandwidth in MHz.		

3.3.2 Test Procedures

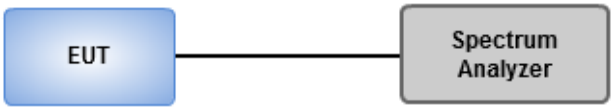
Method PM-G (Measurement using a gated RF average power meter)

Measurements is performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Spectrum analyzer (For channel that extends across the 5.725 GHz boundary)

1. Set RBW = 1MHz, VBW = 3MHz, Sweep time = Auto, Detector = RMS.
2. Trace average at least 100 traces in power averaging mode.
3. Compute power by integrating the spectrum across the 26 dB EBW.
4. Add 10 log(1/X, X:duty cycle) if duty cycle is <98%).

3.3.3 Test Setup



3.3.4 Test Result of Maximum Conducted Output Power

Summary

Mode	Total Power (dBm)	Total Power (W)	EIRP (dBm)	EIRP (W)
5.15-5.25GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	**18.35**	0.06839	21.73	0.14894
802.11ac VHT20_Nss1,(MCS0)_1TX	18.16	0.06546	21.54	0.14256
802.11ac VHT40_Nss1,(MCS0)_1TX	15.52	0.03565	18.90	0.07762
802.11ac VHT80_Nss1,(MCS0)_1TX	9.02	0.00798	12.40	0.01738
5.25-5.35GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	**18.72**	0.07447	22.00	0.15849
802.11ac VHT20_Nss1,(MCS0)_1TX	18.56	0.07178	21.84	0.15276
802.11ac VHT40_Nss1,(MCS0)_1TX	17.14	0.05176	20.42	0.11015
802.11ac VHT80_Nss1,(MCS0)_1TX	9.75	0.00944	13.03	0.02009
5.47-5.725GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.54	0.04508	19.80	0.09550
802.11ac VHT20_Nss1,(MCS0)_1TX	16.31	0.04276	19.57	0.09057
802.11ac VHT40_Nss1,(MCS0)_1TX	16.86	0.04853	20.12	0.10280
802.11ac VHT80_Nss1,(MCS0)_1TX	**17.55**	0.05689	20.81	0.12050
5.725-5.85GHz	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.81	0.04797	20.34	0.10814
802.11ac VHT20_Nss1,(MCS0)_1TX	16.75	0.04732	20.28	0.10666
802.11ac VHT40_Nss1,(MCS0)_1TX	**17.78**	0.05998	21.31	0.13521
802.11ac VHT80_Nss1,(MCS0)_1TX	16.64	0.04613	20.17	0.10399

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.38	14.72	14.72	24.00	18.10	30.00
5200MHz	Pass	3.38	18.35	18.35	24.00	21.73	30.00
5240MHz	Pass	3.38	15.53	15.53	24.00	18.91	30.00
5260MHz	Pass	3.28	18.41	18.41	24.00	21.69	30.00
5300MHz	Pass	3.28	18.72	18.72	24.00	22.00	30.00
5320MHz	Pass	3.28	15.02	15.02	24.00	18.30	30.00
5500MHz	Pass	3.26	11.12	11.12	23.82	14.38	29.82
5580MHz	Pass	3.26	16.54	16.54	24.00	19.80	30.00
5700MHz	Pass	3.26	10.06	10.06	23.72	13.32	29.72
5720MHz Straddle 5.47-5.725GHz	Pass	3.26	14.75	14.75	22.77	18.01	28.77
5720MHz Straddle 5.725-5.85GHz	Pass	3.53	7.82	7.82	30.00	11.35	36.00
5745MHz	Pass	3.53	16.59	16.59	30.00	20.12	36.00
5785MHz	Pass	3.53	16.52	16.52	30.00	20.05	36.00
5825MHz	Pass	3.53	16.81	16.81	30.00	20.34	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.38	14.25	14.25	24.00	17.63	30.00
5200MHz	Pass	3.38	18.16	18.16	24.00	21.54	30.00
5240MHz	Pass	3.38	15.48	15.48	24.00	18.86	30.00
5260MHz	Pass	3.28	18.33	18.33	24.00	21.61	30.00
5300MHz	Pass	3.28	18.56	18.56	24.00	21.84	30.00
5320MHz	Pass	3.28	14.88	14.88	24.00	18.16	30.00
5500MHz	Pass	3.26	10.91	10.91	23.99	14.17	29.99
5580MHz	Pass	3.26	16.31	16.31	24.00	19.57	30.00
5700MHz	Pass	3.26	10.02	10.02	23.93	13.28	29.93
5720MHz Straddle 5.47-5.725GHz	Pass	3.26	14.52	14.52	22.92	17.78	28.92
5720MHz Straddle 5.725-5.85GHz	Pass	3.53	7.85	7.85	30.00	11.38	36.00
5745MHz	Pass	3.53	16.61	16.61	30.00	20.14	36.00
5785MHz	Pass	3.53	16.75	16.75	30.00	20.28	36.00
5825MHz	Pass	3.53	16.62	16.62	30.00	20.15	36.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	3.38	11.02	11.02	24.00	14.40	30.00
5230MHz	Pass	3.38	15.52	15.52	24.00	18.90	30.00
5270MHz	Pass	3.28	17.14	17.14	24.00	20.42	30.00
5310MHz	Pass	3.28	11.51	11.51	24.00	14.79	30.00
5510MHz	Pass	3.26	8.54	8.54	24.00	11.80	30.00

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
5590MHz	Pass	3.26	16.86	16.86	24.00	20.12	30.00
5670MHz	Pass	3.26	12.44	12.44	24.00	15.70	30.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.26	16.41	16.41	24.00	19.67	30.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.53	4.6	4.60	30.00	8.13	36.00
5755MHz	Pass	3.53	17.78	17.78	30.00	21.31	36.00
5795MHz	Pass	3.53	17.71	17.71	30.00	21.24	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	3.38	9.02	9.02	24.00	12.40	30.00
5290MHz	Pass	3.28	9.75	9.75	24.00	13.03	30.00
5530MHz	Pass	3.26	12.66	12.66	24.00	15.92	30.00
5610MHz	Pass	3.26	16.58	16.58	24.00	19.84	30.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.26	17.55	17.55	24.00	20.81	30.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.53	2.64	2.64	30.00	6.17	36.00
5775MHz	Pass	3.53	16.64	16.64	30.00	20.17	36.00

DG = Directional Gain;**Port X** = Port X output power

3.4 Peak Power Spectral Density

3.4.1 Limit of Peak Power Spectral Density

Frequency band 5150-5250 MHz		
Operating Mode		**Limit**
☐	Outdoor access point	17 dBm / MHz
☐	Indoor access point	17 dBm / MHz
☐	Fixed point-to-point access points	17 dBm / MHz
☒	Client devices	11 dBm / MHz

Frequency Band (MHz)		**Limit**
☒	5250 ~ 5350	11 dBm / MHz
☒	5470 ~ 5725	11 dBm / MHz
☒	5725 ~ 5850	30 dBm /500 kHz

3.4.2 Test Procedures

For 5150 ~ 5250 MHz / 5250 ~ 5350 MHz / 5470 ~ 5725 MHz

Duty cycle ≥ 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 1 MHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time ≥ 10 * (number of points in sweep) * (total on/off period of the transmitted signal).
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add 10 log(1/x), where x is the duty cycle.

For 5725 ~ 5850 MHz

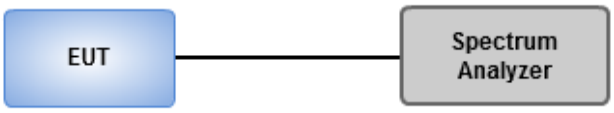
Duty cycle ≥ 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Sweep time = auto, Detector = RMS.
2. Trace average 100 traces.
3. Use the peak marker function to determine the maximum amplitude level.

Duty cycle < 98 %

1. Set RBW = 500 kHz, VBW = 3 MHz, Detector = RMS.
2. Set sweep time ≥ 10 * (number of points in sweep) * (total on/off period of the transmitted signal).
3. Perform a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add 10 log(1/x), where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Peak Power Spectral Density

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	5.25	8.63
802.11ac VHT20_Nss1,(MCS0)_1TX	4.61	7.99
802.11ac VHT40_Nss1,(MCS0)_1TX	-0.49	2.89
802.11ac VHT80_Nss1,(MCS0)_1TX	-10.04	-6.66
5.25-5.35GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	6.13	9.41
802.11ac VHT20_Nss1,(MCS0)_1TX	5.70	8.98
802.11ac VHT40_Nss1,(MCS0)_1TX	0.70	3.98
802.11ac VHT80_Nss1,(MCS0)_1TX	-9.26	-5.98
5.47-5.725GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	3.74	7.00
802.11ac VHT20_Nss1,(MCS0)_1TX	3.59	6.85
802.11ac VHT40_Nss1,(MCS0)_1TX	1.24	4.50
802.11ac VHT80_Nss1,(MCS0)_1TX	-0.83	2.43
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	3.25	6.78
802.11ac VHT20_Nss1,(MCS0)_1TX	2.78	6.31
802.11ac VHT40_Nss1,(MCS0)_1TX	0.47	4.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-4.17	-0.64

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

Result

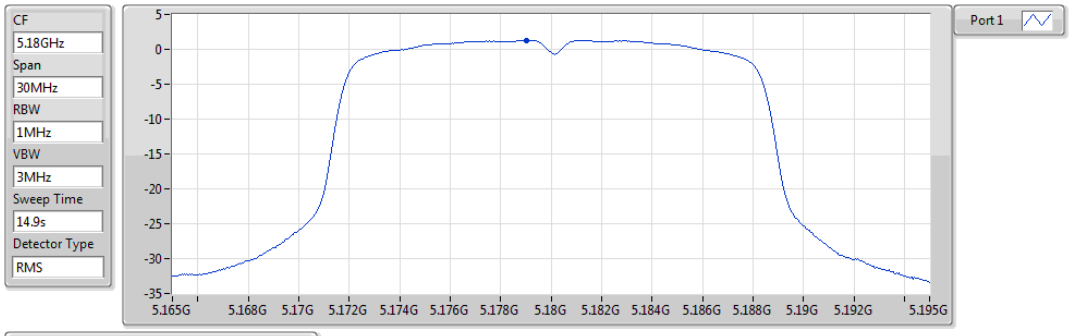
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.38	1.29	1.29	11.00	4.67	17.00
5200MHz	Pass	3.38	5.25	5.25	11.00	8.63	17.00
5240MHz	Pass	3.38	5.13	5.13	11.00	8.51	17.00
5260MHz	Pass	3.28	5.81	5.81	11.00	9.09	17.00
5300MHz	Pass	3.28	6.13	6.13	11.00	9.41	17.00
5320MHz	Pass	3.28	2.52	2.52	11.00	5.80	17.00
5500MHz	Pass	3.26	-1.71	-1.71	11.00	1.55	17.00
5580MHz	Pass	3.26	3.74	3.74	11.00	7.00	17.00
5700MHz	Pass	3.26	-3.17	-3.17	11.00	0.09	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.26	3.30	3.30	11.00	6.56	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.53	0.95	0.95	30.00	4.48	36.00
5745MHz	Pass	3.53	2.72	2.72	30.00	6.25	36.00
5785MHz	Pass	3.53	3.04	3.04	30.00	6.57	36.00
5825MHz	Pass	3.53	3.25	3.25	30.00	6.78	36.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5180MHz	Pass	3.38	1.15	1.15	11.00	4.53	17.00
5200MHz	Pass	3.38	4.61	4.61	11.00	7.99	17.00
5240MHz	Pass	3.38	2.26	2.26	11.00	5.64	17.00
5260MHz	Pass	3.28	5.35	5.35	11.00	8.63	17.00
5300MHz	Pass	3.28	5.70	5.70	11.00	8.98	17.00
5320MHz	Pass	3.28	2.31	2.31	11.00	5.59	17.00
5500MHz	Pass	3.26	-2.13	-2.13	11.00	1.13	17.00
5580MHz	Pass	3.26	3.59	3.59	11.00	6.85	17.00
5700MHz	Pass	3.26	-3.57	-3.57	11.00	-0.31	17.00
5720MHz Straddle 5.47-5.725GHz	Pass	3.26	2.92	2.92	11.00	6.18	17.00
5720MHz Straddle 5.725-5.85GHz	Pass	3.53	0.73	0.73	30.00	4.26	36.00
5745MHz	Pass	3.53	2.32	2.32	30.00	5.85	36.00
5785MHz	Pass	3.53	2.61	2.61	30.00	6.14	36.00
5825MHz	Pass	3.53	2.78	2.78	30.00	6.31	36.00

Mode	Result	DG	Port 1	PD	PD Limit	EIRP PD	EIRP PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5190MHz	Pass	3.38	-5.05	-5.05	11.00	-1.67	17.00
5230MHz	Pass	3.38	-0.49	-0.49	11.00	2.89	17.00
5270MHz	Pass	3.28	0.70	0.70	11.00	3.98	17.00
5310MHz	Pass	3.28	-4.46	-4.46	11.00	-1.18	17.00
5510MHz	Pass	3.26	-7.32	-7.32	11.00	-4.06	17.00
5590MHz	Pass	3.26	0.93	0.93	11.00	4.19	17.00
5670MHz	Pass	3.26	-3.28	-3.28	11.00	-0.02	17.00
5710MHz Straddle 5.47-5.725GHz	Pass	3.26	1.24	1.24	11.00	4.50	17.00
5710MHz Straddle 5.725-5.85GHz	Pass	3.53	-2.47	-2.47	30.00	1.06	36.00
5755MHz	Pass	3.53	0.29	0.29	30.00	3.82	36.00
5795MHz	Pass	3.53	0.47	0.47	30.00	4.00	36.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
5210MHz	Pass	3.38	-10.04	-10.04	11.00	-6.66	17.00
5290MHz	Pass	3.28	-9.26	-9.26	11.00	-5.98	17.00
5530MHz	Pass	3.26	-7.05	-7.05	11.00	-3.79	17.00
5610MHz	Pass	3.26	-2.37	-2.37	11.00	0.89	17.00
5690MHz Straddle 5.47-5.725GHz	Pass	3.26	-0.83	-0.83	11.00	2.43	17.00
5690MHz Straddle 5.725-5.85GHz	Pass	3.53	-5.79	-5.79	30.00	-2.26	36.00
5775MHz	Pass	3.53	-4.17	-4.17	30.00	-0.64	36.00

DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11a_Nss1,(6Mbps)_1TX **PSD**

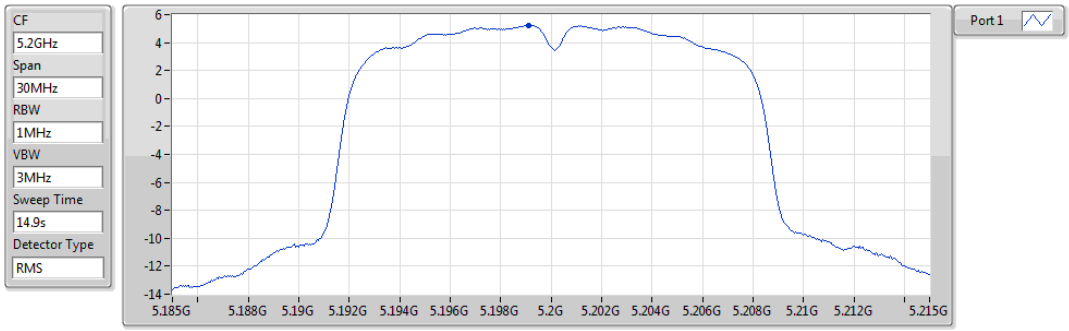
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.29	1.29	1.29

802.11a_Nss1,(6Mbps)_1TX **PSD**

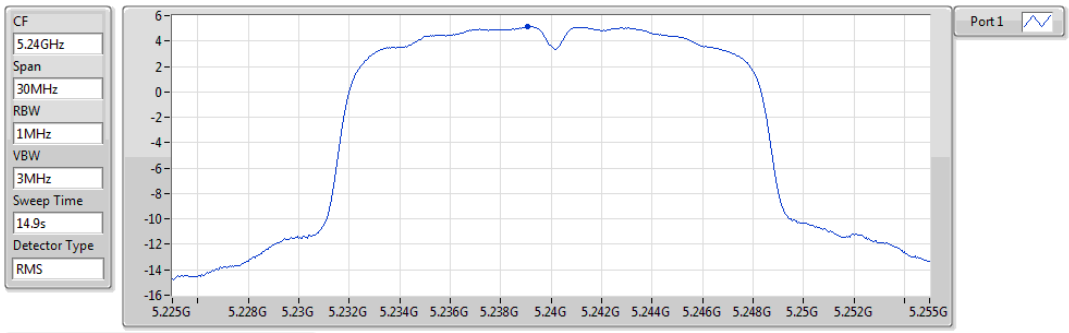
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.25	5.25	5.25

802.11a_Nss1,(6Mbps)_1TX **PSD**

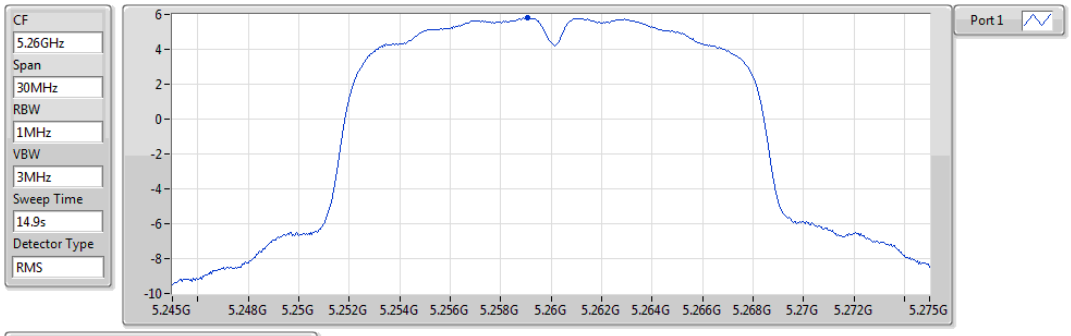
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.13	5.13	5.13

802.11a_Nss1,(6Mbps)_1TX **PSD**

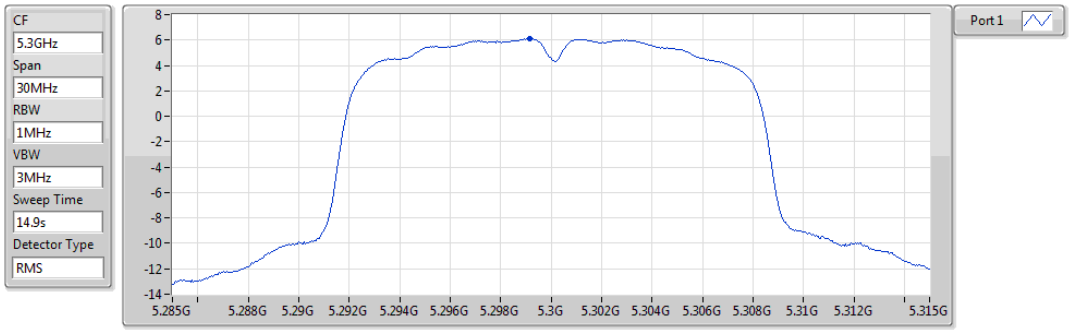
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.81	5.81	5.81

802.11a_Nss1,(6Mbps)_1TX **PSD**

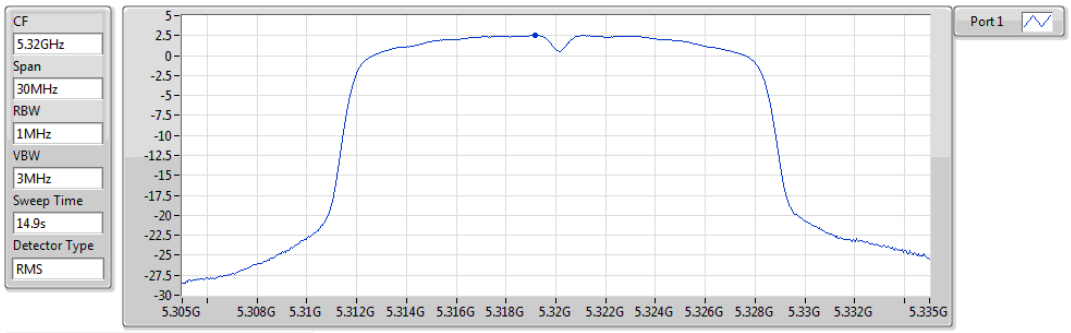
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.13	6.13	6.13

802.11a_Nss1,(6Mbps)_1TX **PSD**

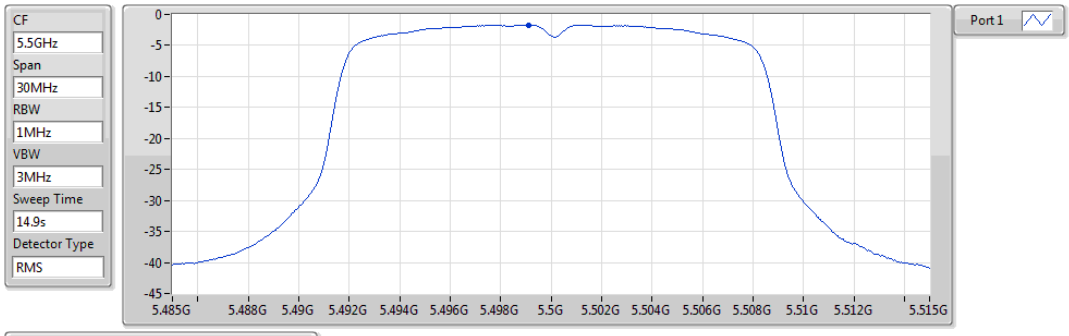
5320MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.52	2.52	2.52

802.11a_Nss1,(6Mbps)_1TX **PSD**

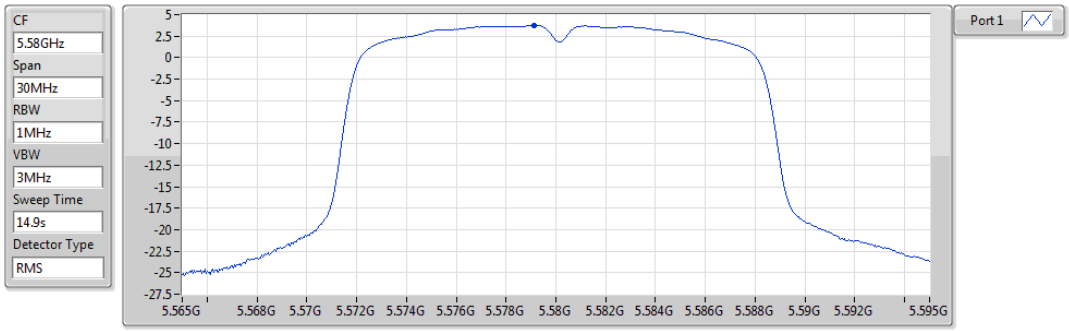
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.71	-1.71	-1.71

802.11a_Nss1,(6Mbps)_1TX **PSD**

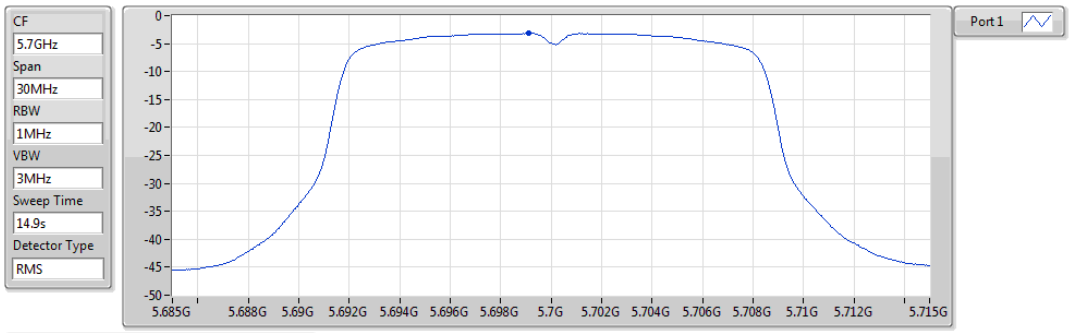
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.74	3.74	3.74

802.11a_Nss1,(6Mbps)_1TX **PSD**

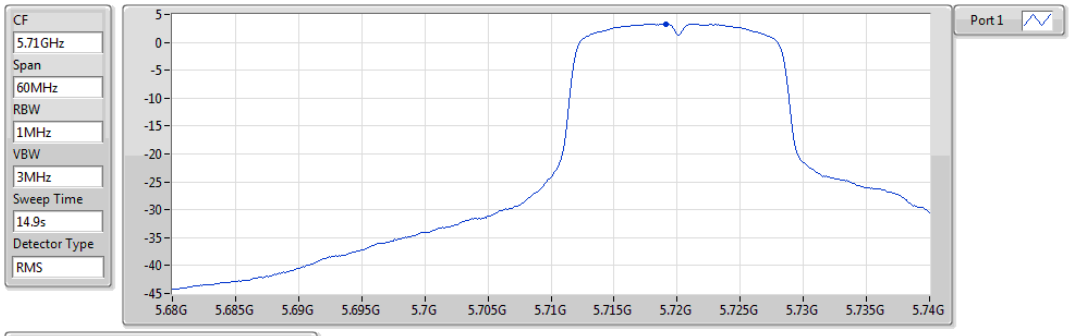
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.17	-3.17	-3.17

802.11a_Nss1,(6Mbps)_1TX **PSD**

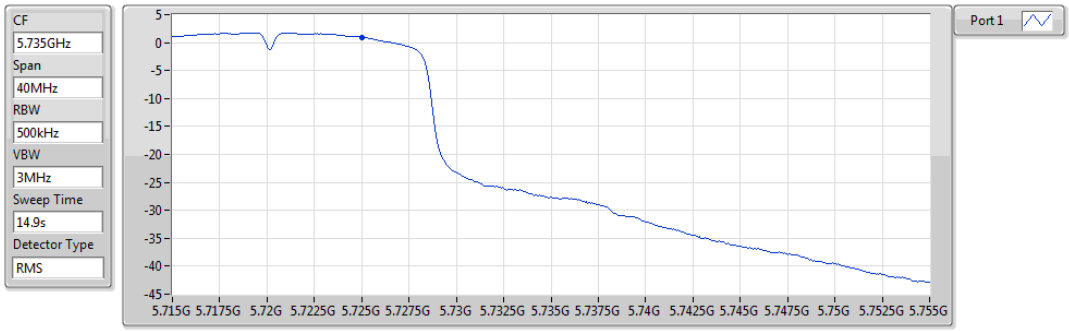
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.30	3.30	3.30

802.11a_Nss1,(6Mbps)_1TX **PSD**

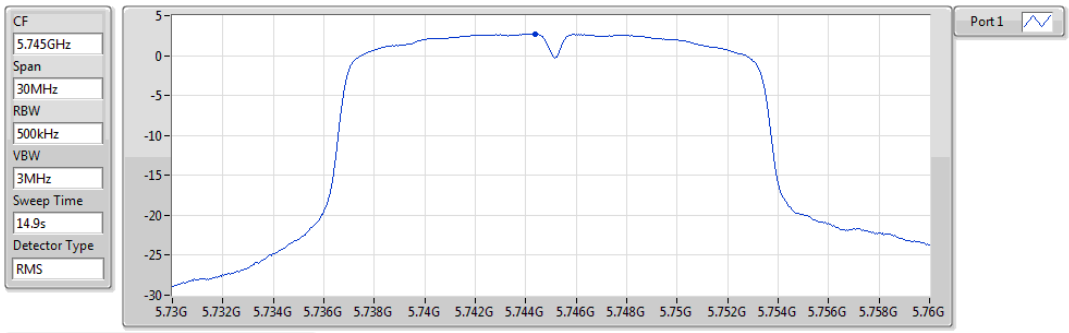
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.95	0.95	0.95

802.11a_Nss1,(6Mbps)_1TX **PSD**

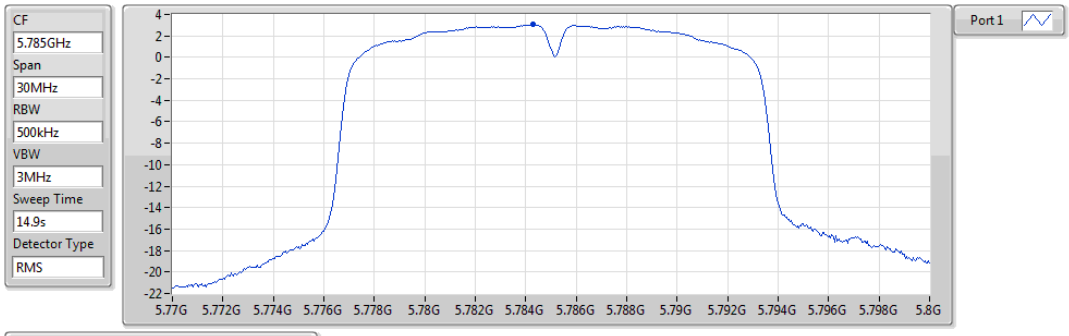
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.72	2.72	2.72

802.11a_Nss1,(6Mbps)_1TX **PSD**

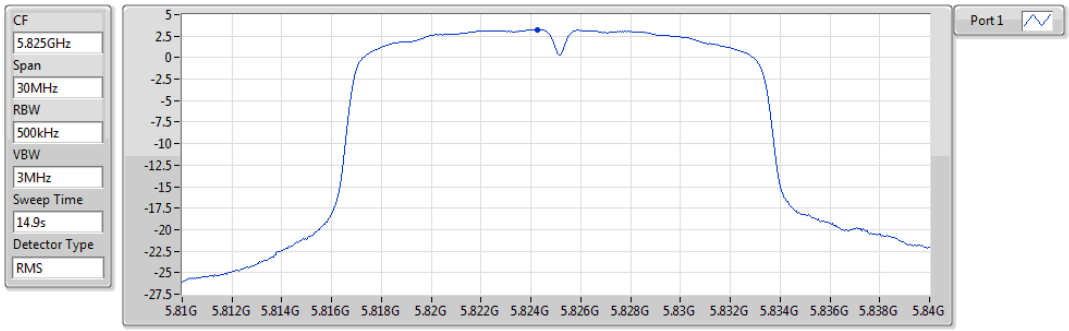
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.04	3.04	3.04

802.11a_Nss1,(6Mbps)_1TX **PSD**

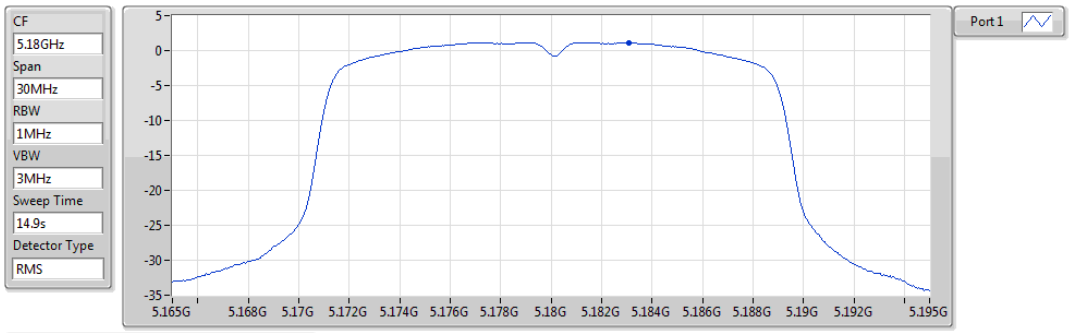
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.25	3.25	3.25

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

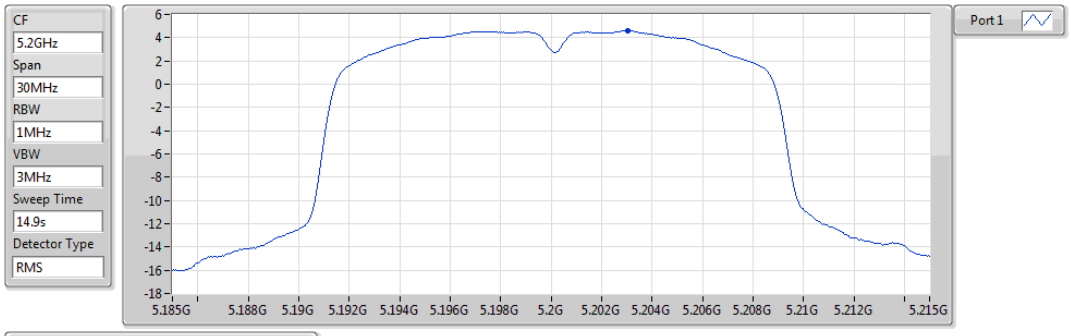
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.15	1.15	1.15

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

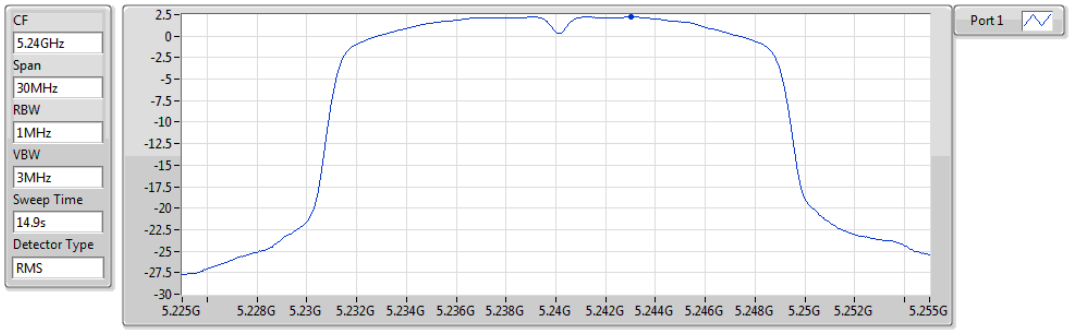
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.61	4.61	4.61

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

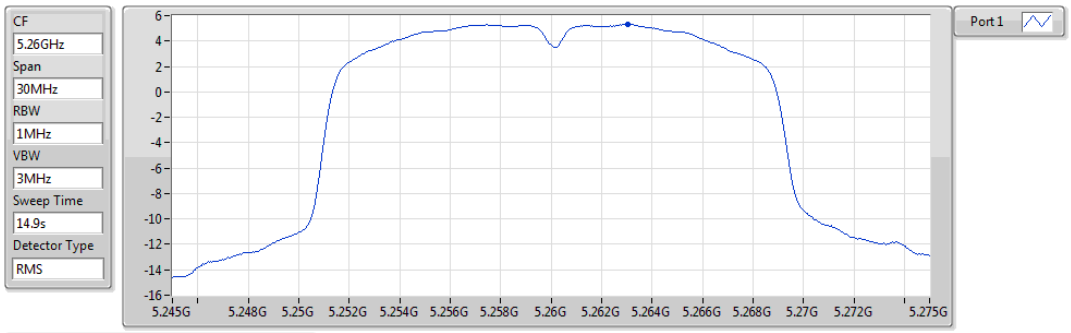
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.26	2.26	2.26

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

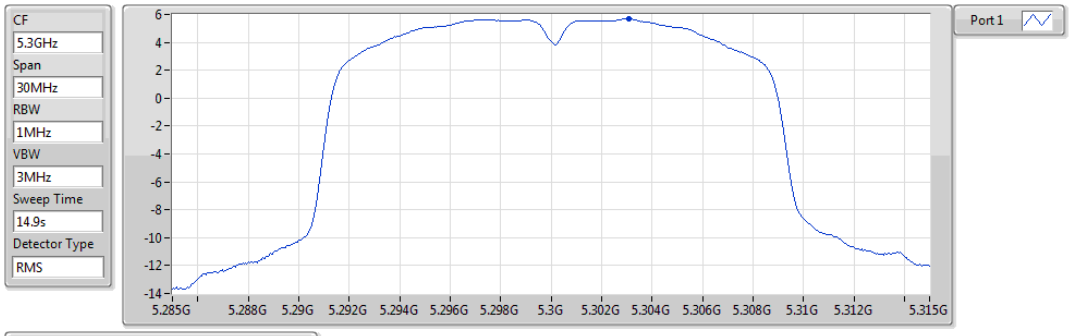
5260MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.35	5.35	5.35

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

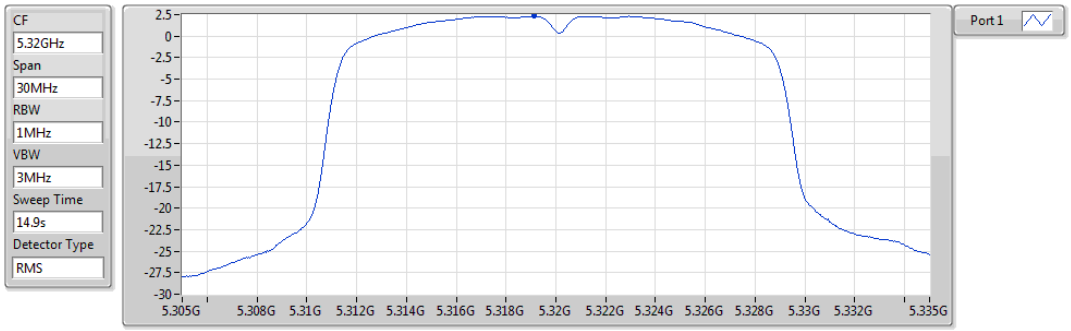
5300MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.70	5.70	5.70

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

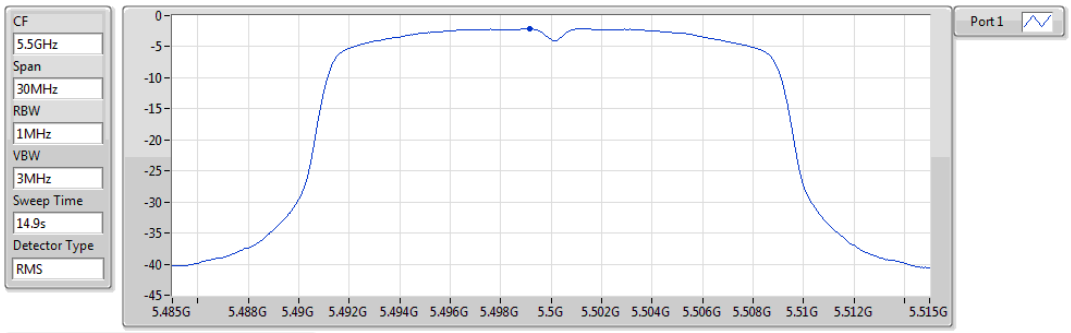
5320MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.31	2.31	2.31

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

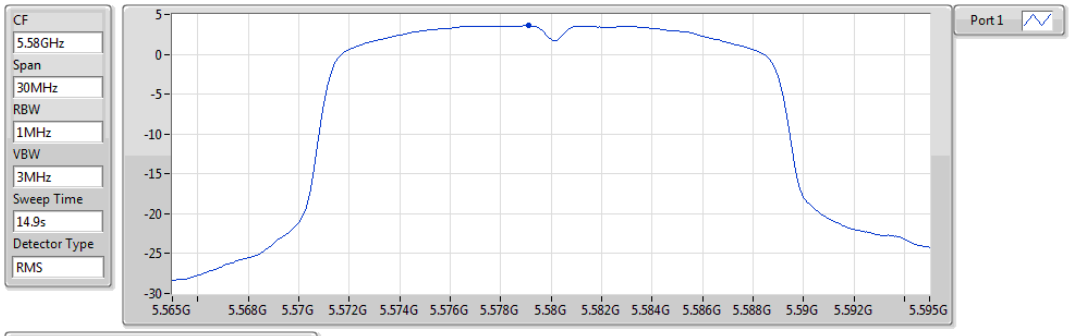
5500MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.13	-2.13	-2.13

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

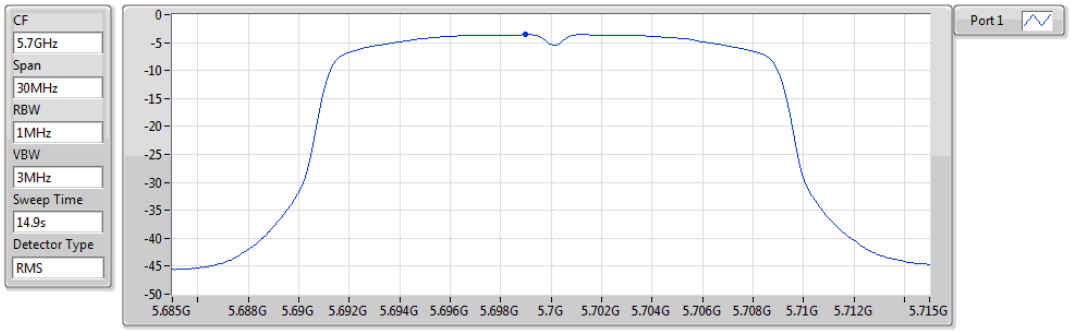
5580MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.59	3.59	3.59

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

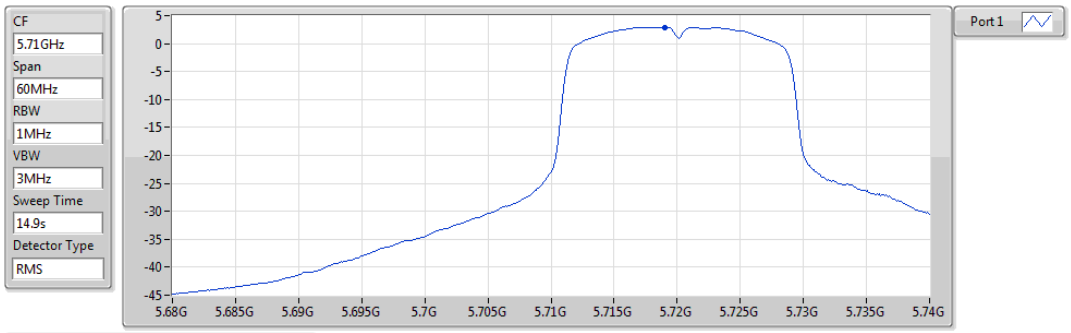
5700MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.57	-3.57	-3.57

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

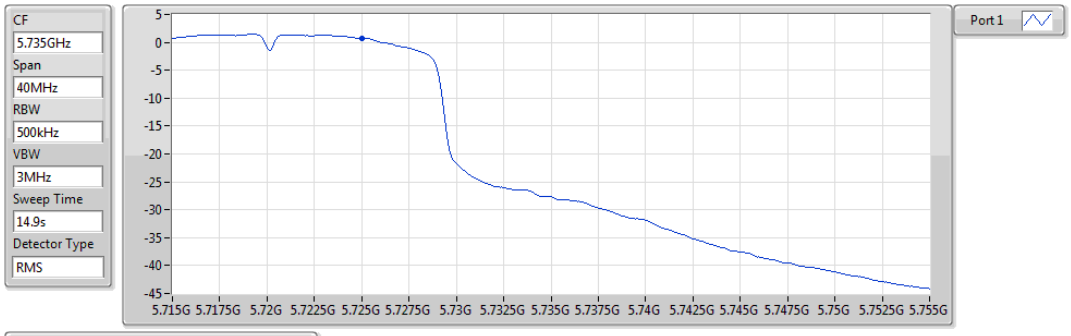
5720MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.92	2.92	2.92

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

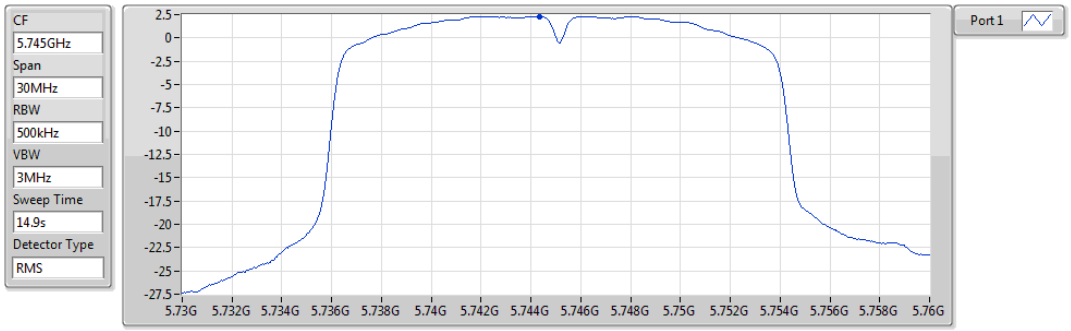
5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.73	0.73	0.73

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

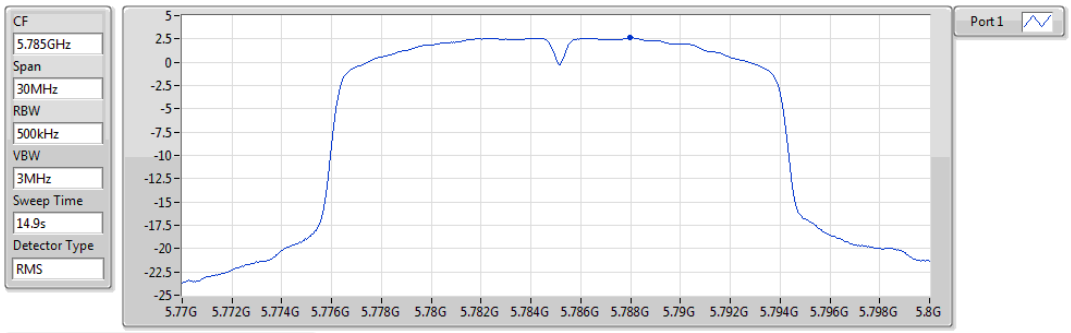
5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.32	2.32	2.32

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

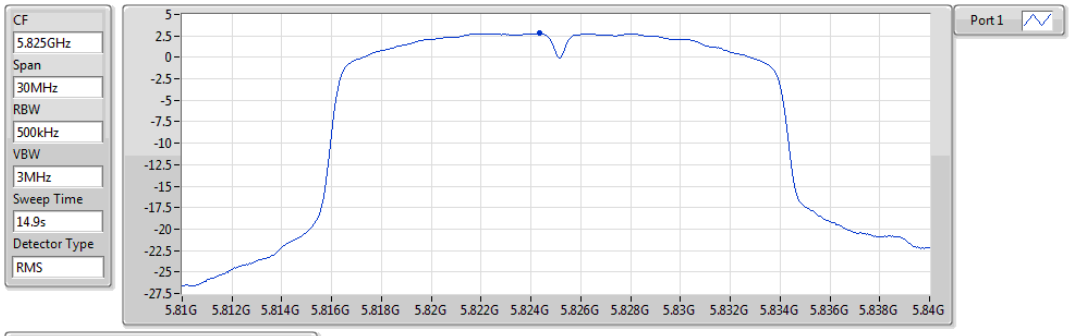
5785MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.61	2.61	2.61

802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

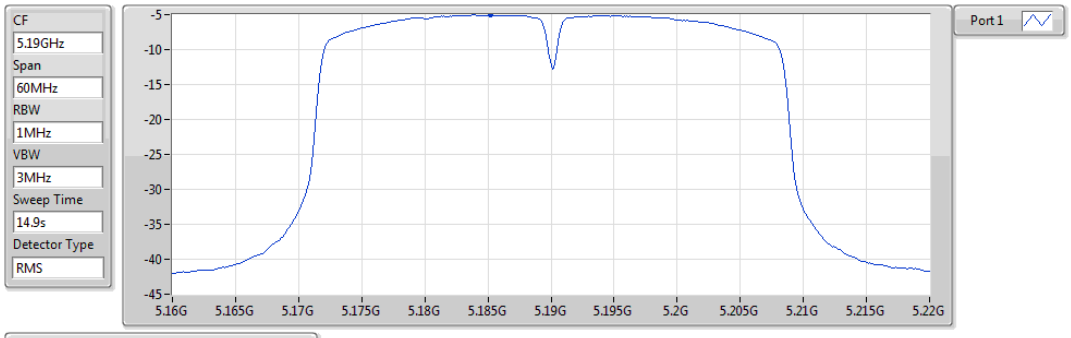
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
2.78	2.78	2.78

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

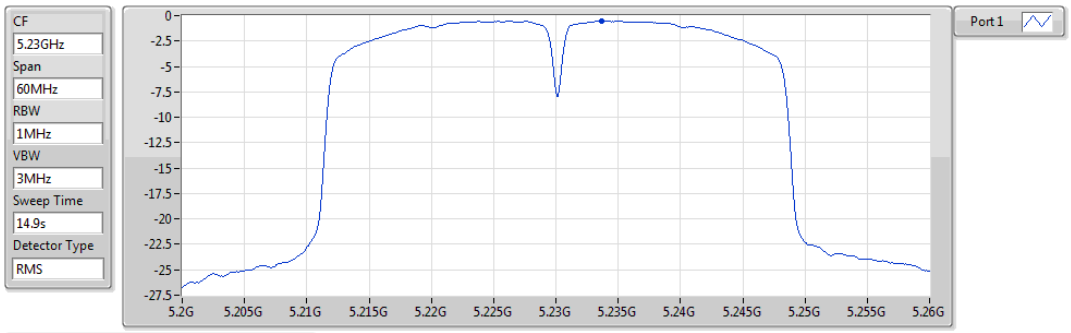
5190MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.05	-5.05	-5.05

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

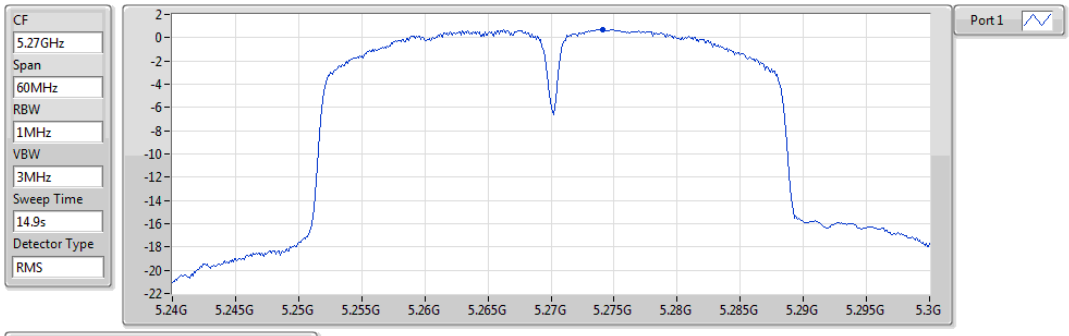
5230MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.49	-0.49	-0.49

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

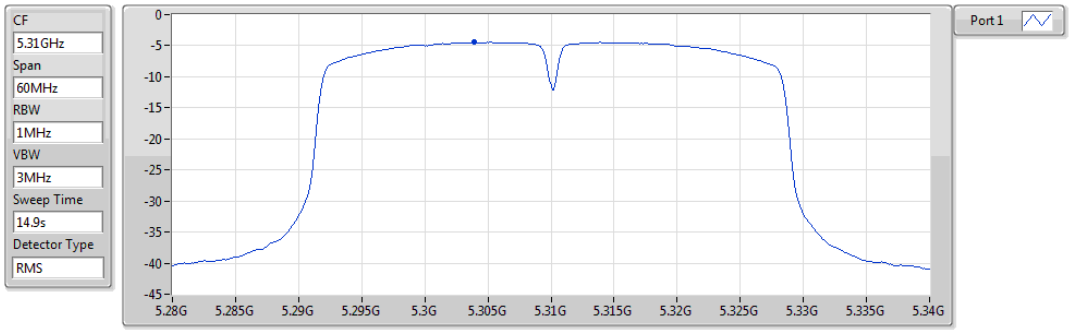
5270MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.70	0.70	0.70

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

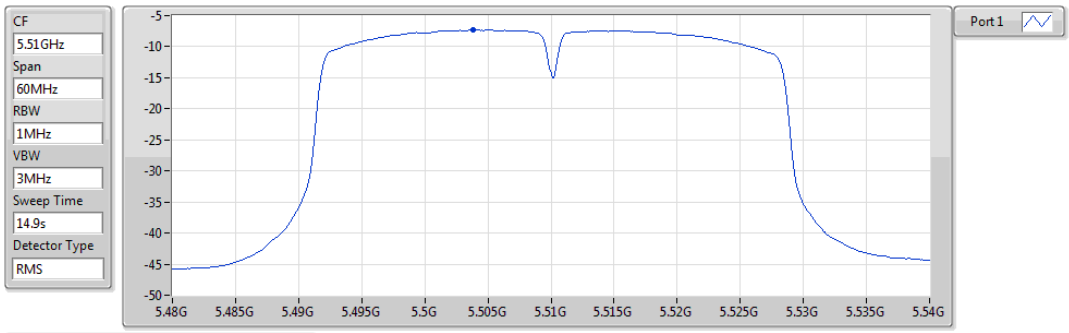
5310MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.46	-4.46	-4.46

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

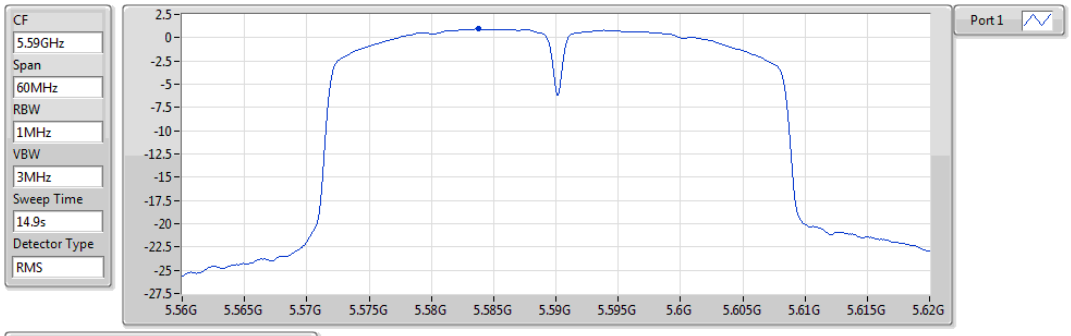
5510MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.32	-7.32	-7.32

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

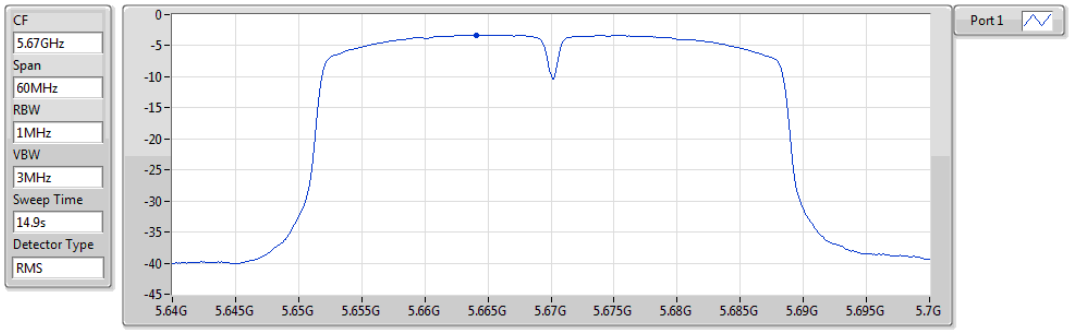
5590MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.93	0.93	0.93

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

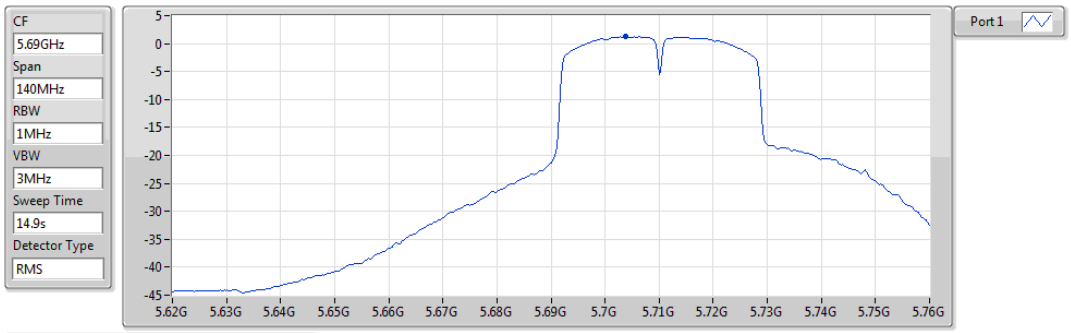
5670MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.28	-3.28	-3.28

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

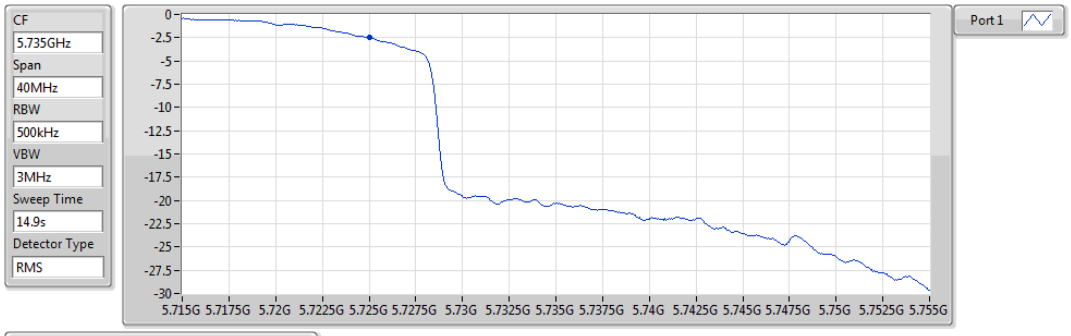
5710MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
1.24	1.24	1.24

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

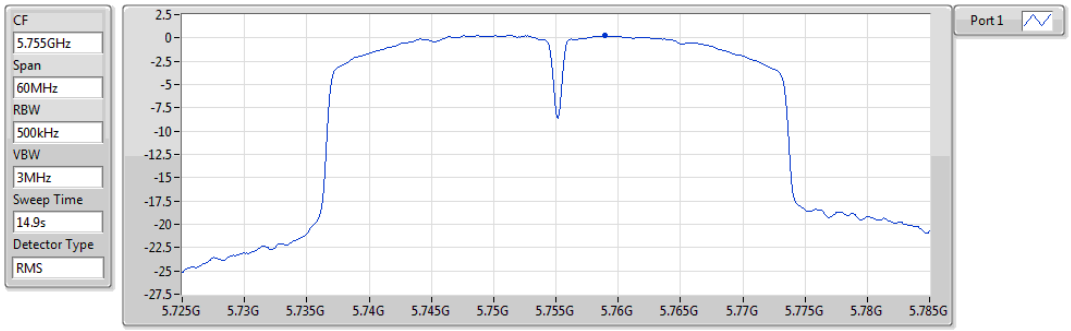
5710MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.47	-2.47	-2.47

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

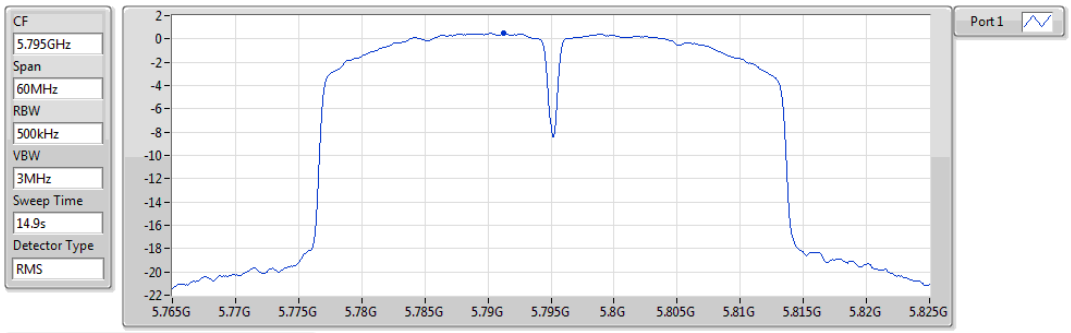
5755MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.29	0.29	0.29

802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

5795MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.47	0.47	0.47

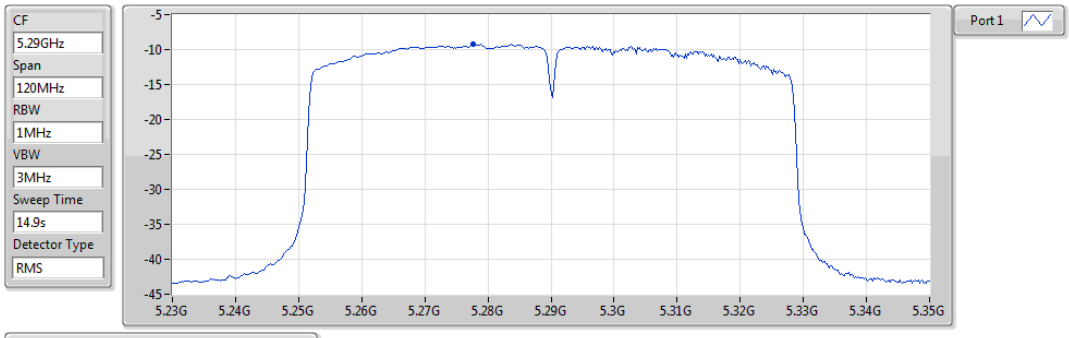
802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

5210MHz

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.04	-10.04	-10.04

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

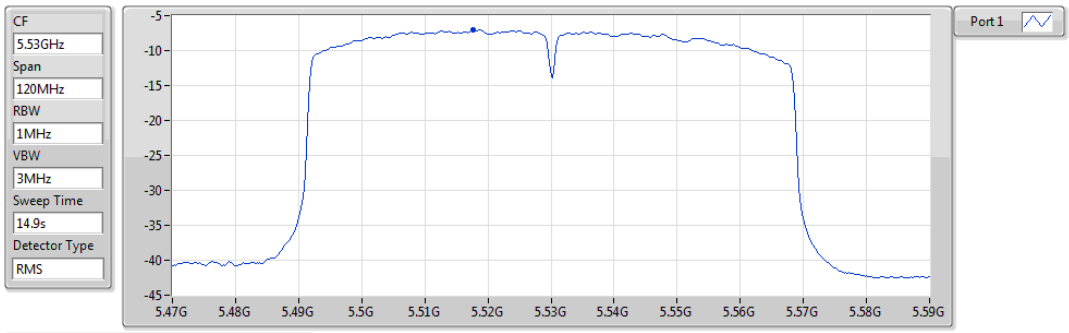
5290MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.26	-9.26	-9.26

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

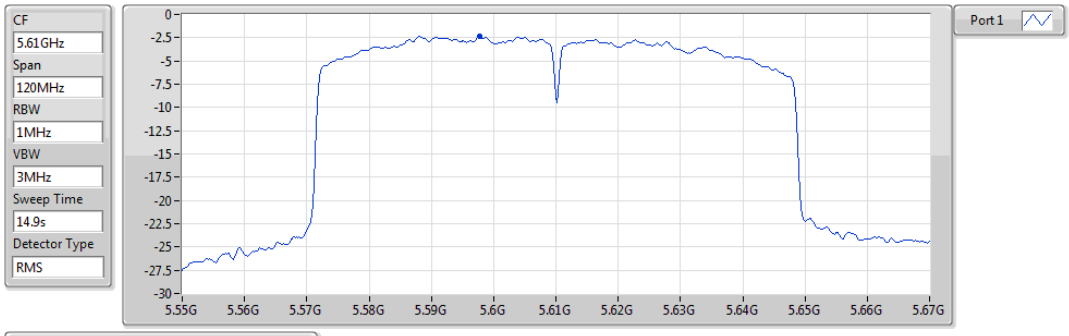
5530MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.05	-7.05	-7.05

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

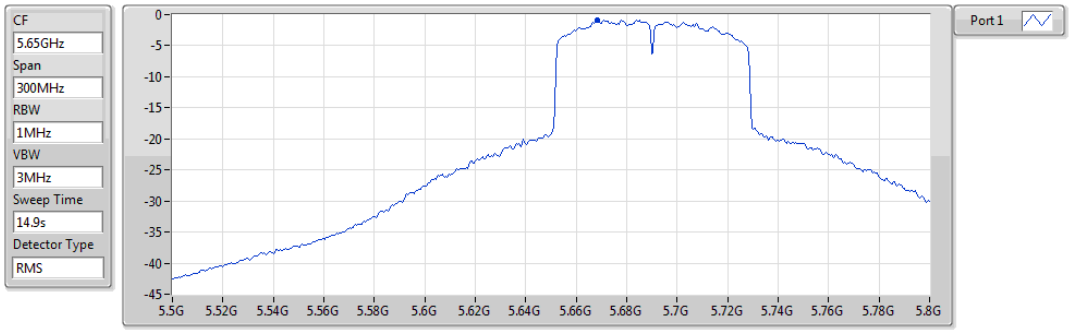
5610MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.37	-2.37	-2.37

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

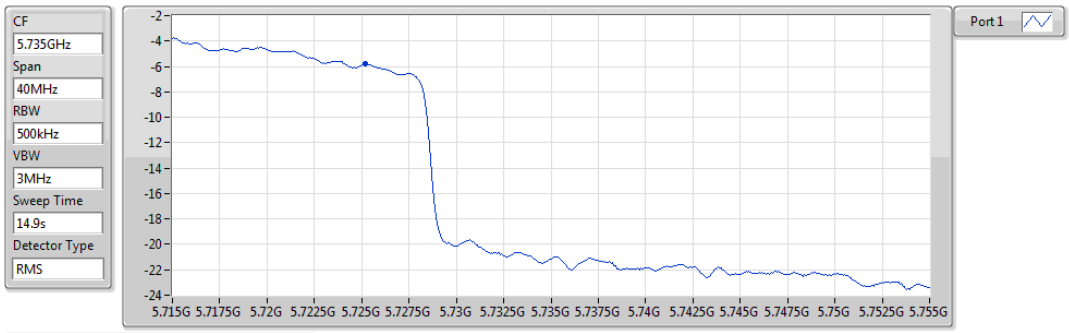
5690MHz Straddle 5.47-5.725GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.83	-0.83	-0.83

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

5690MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.79	-5.79	-5.79

802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

5775MHz

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.17	-4.17	-4.17

3.5 Transmitter Radiated and Band Edge Emissions

3.5.1 Limit of Transmitter Radiated and Band Edge Emissions

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Qusai-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit
Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.850 GHz	All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

3.5.2 Test Procedures

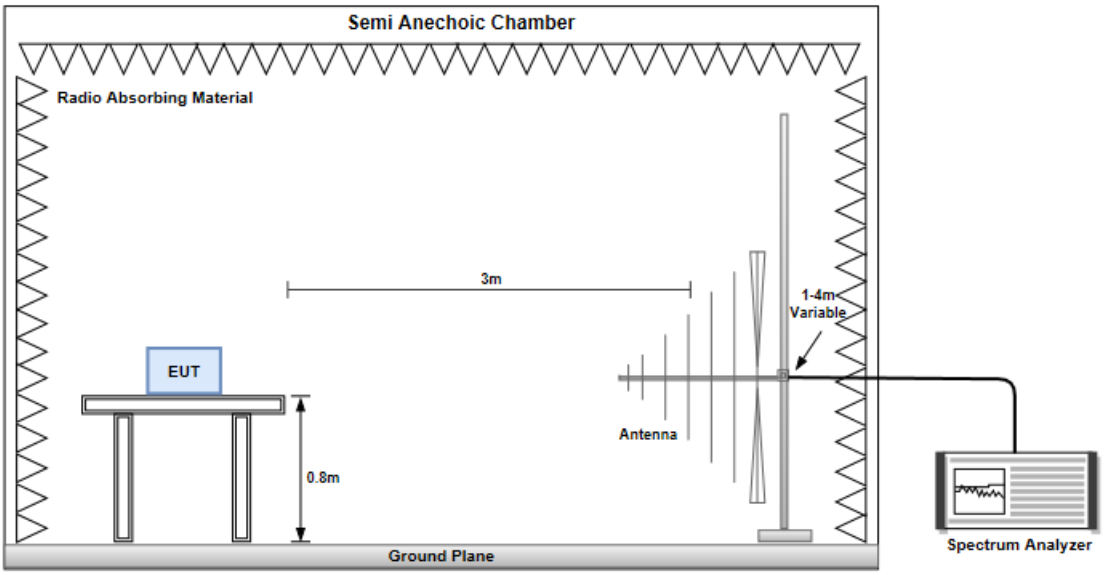
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

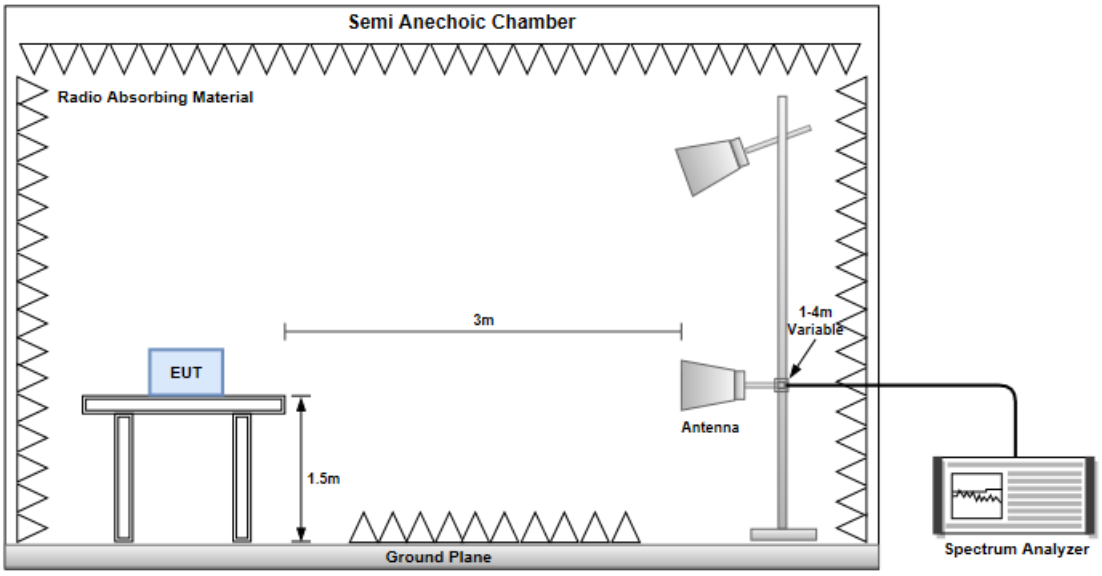
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.5.3 Test Setup

Radiated Emissions below 1 GHz

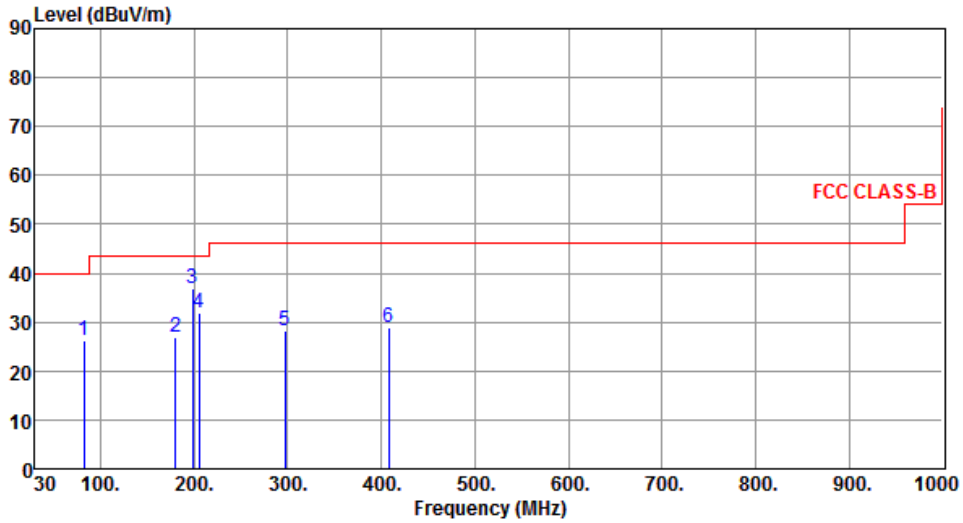


Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

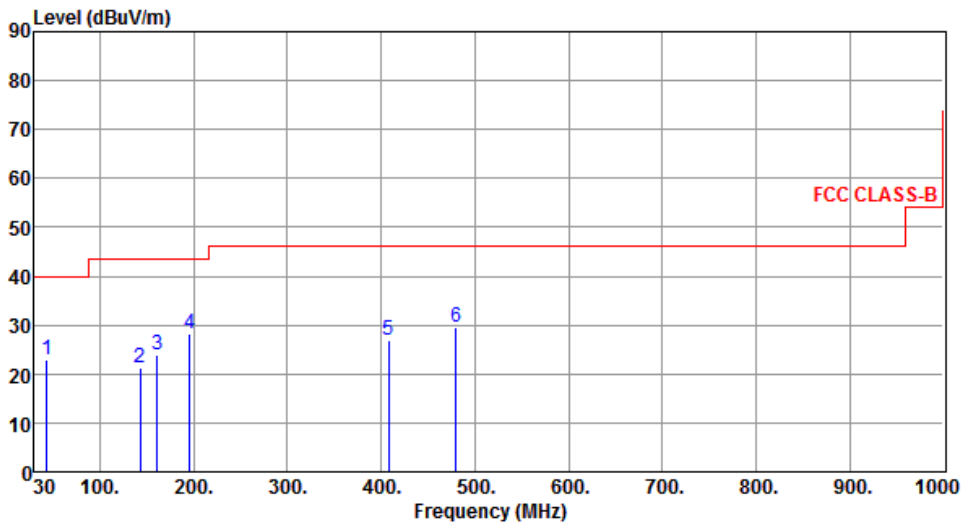
Modulation	11a	**Test Freq. (MHz)**	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	82.38	26.34	40.00	-13.66	40.31	-13.97	Peak	---	---
2	180.35	26.74	43.50	-16.76	36.98	-10.24	Peak	---	---
3	198.78	36.76	43.50	-6.74	48.65	-11.89	Peak	---	---
4	205.57	31.90	43.50	-11.60	43.96	-12.06	Peak	---	---
5	296.75	28.23	46.00	-17.77	36.64	-8.41	Peak	---	---
6	408.30	28.97	46.00	-17.03	34.39	-5.42	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

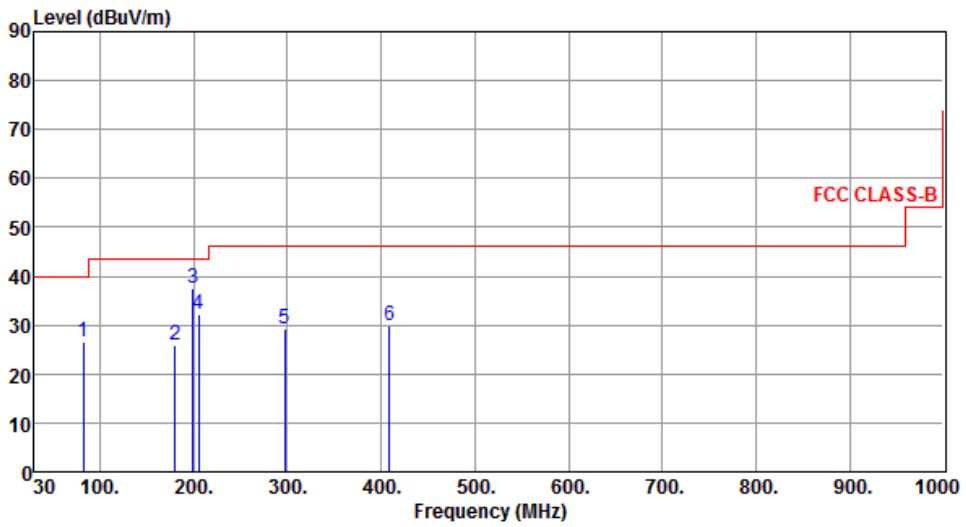
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	43.58	22.95	40.00	-17.05	31.83	-8.88	Peak	---	---
2	142.52	21.17	43.50	-22.33	30.18	-9.01	Peak	---	---
3	160.95	23.91	43.50	-19.59	32.61	-8.70	Peak	---	---
4	195.87	28.16	43.50	-15.34	39.95	-11.79	Peak	---	---
5	408.30	26.81	46.00	-19.19	32.23	-5.42	Peak	---	---
6	480.08	29.42	46.00	-16.58	32.85	-3.43	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

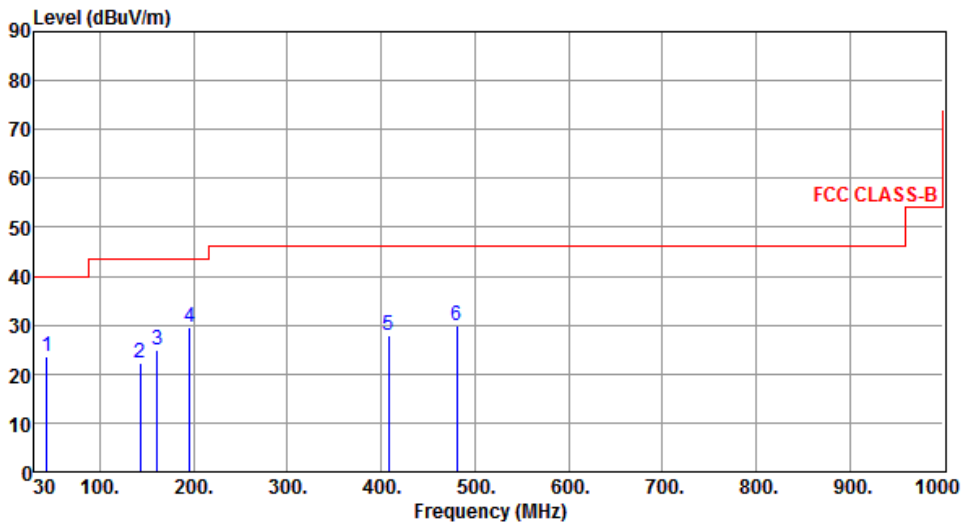
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	82.35	26.56	40.00	-13.44	40.51	-13.95	Peak	---	---
2	180.21	25.77	43.50	-17.73	35.99	-10.22	Peak	---	---
3	199.52	37.38	43.50	-6.12	49.32	-11.94	Peak	---	---
4	205.41	32.19	43.50	-11.31	44.25	-12.06	Peak	---	---
5	297.25	29.14	46.00	-16.86	37.54	-8.40	Peak	---	---
6	408.50	29.95	46.00	-16.05	35.37	-5.42	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		

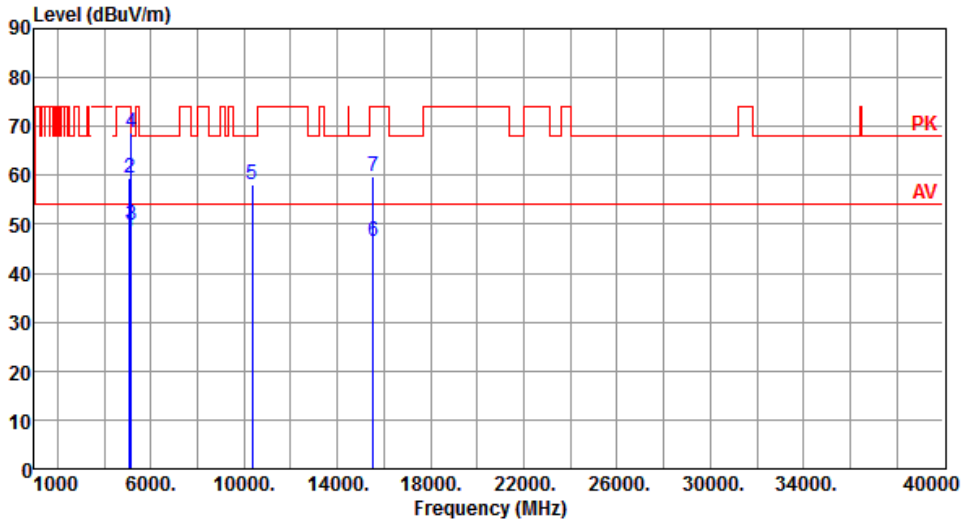


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	43.25	23.56	40.00	-16.44	32.44	-8.88	Peak	---	---
2	142.84	22.25	43.50	-21.25	31.23	-8.98	Peak	---	---
3	161.54	24.84	43.50	-18.66	33.55	-8.71	Peak	---	---
4	195.54	29.64	43.50	-13.86	41.43	-11.79	Peak	---	---
5	408.00	27.88	46.00	-18.12	33.31	-5.43	Peak	---	---
6	480.55	29.95	46.00	-16.05	33.38	-3.43	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11a

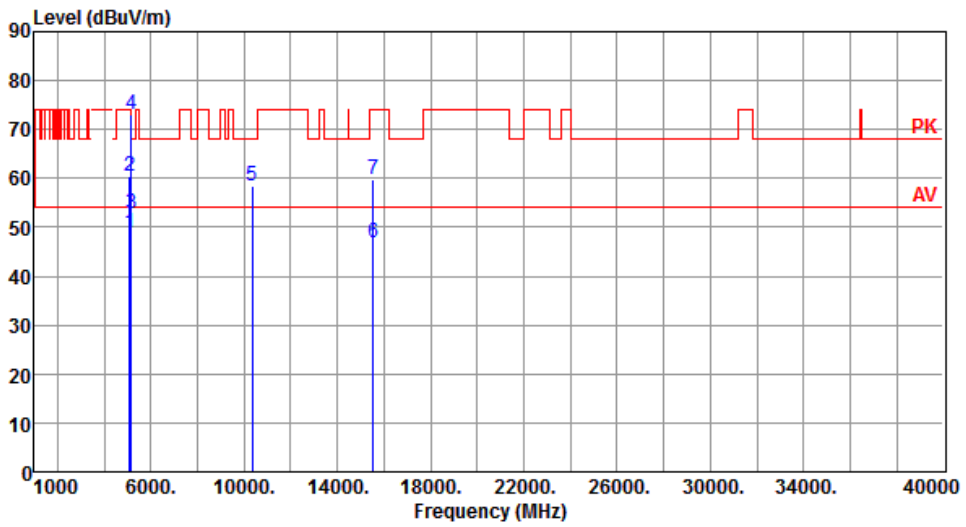
Modulation	11a	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5084.00	48.48	54.00	-5.52	41.24	7.24	Average	233	208
2	5084.00	59.44	74.00	-14.56	52.20	7.24	Peak	233	208
3	5150.00	49.97	54.00	-4.03	42.55	7.42	Average	233	208
4	5150.00	68.64	74.00	-5.36	61.22	7.42	Peak	233	208
5	10360.00	58.19	68.20	-10.01	41.84	16.35	Peak	100	3
6	15540.00	46.60	54.00	-7.40	29.17	17.43	Average	100	12
7	15540.00	59.68	74.00	-14.32	42.25	17.43	Peak	100	12

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

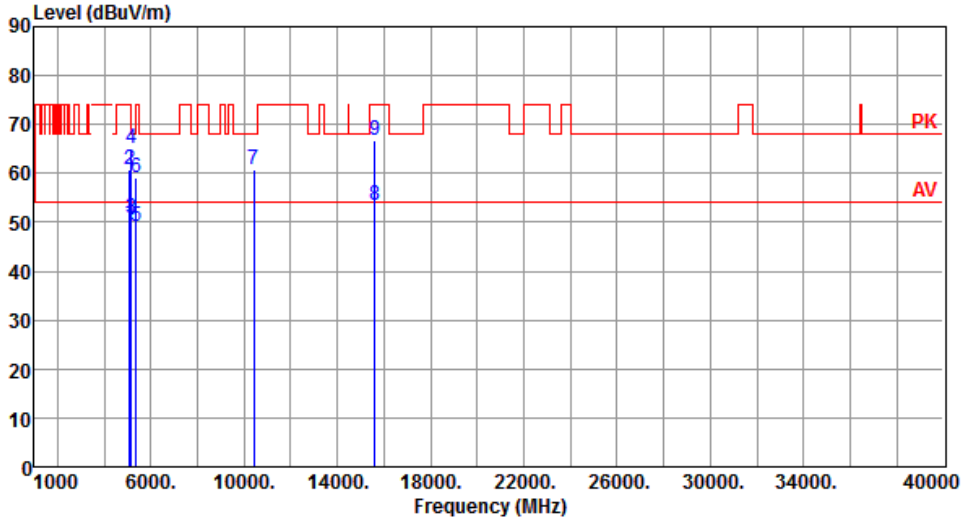
Modulation	11a	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5084.00	48.76	54.00	-5.24	41.52	7.24	Average	100	264
2	5084.00	60.32	74.00	-13.68	53.08	7.24	Peak	100	264
3	5150.00	52.85	54.00	-1.15	45.43	7.42	Average	100	264
4	5150.00	72.96	74.00	-1.04	65.54	7.42	Peak	100	264
5	10360.00	58.58	68.20	-9.62	42.23	16.35	Peak	100	10
6	15540.00	46.79	54.00	-7.21	29.36	17.43	Average	100	11
7	15540.00	59.79	74.00	-14.21	42.36	17.43	Peak	100	11

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

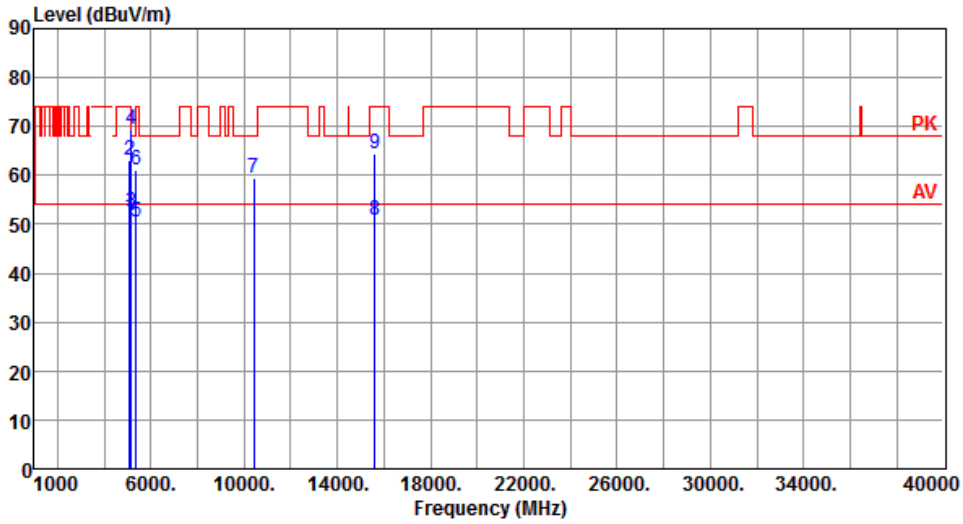
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5104.00	49.89	54.00	-4.11	42.58	7.31	Average	245	205
2	5104.00	60.89	74.00	-13.11	53.58	7.31	Peak	245	205
3	5150.00	50.67	54.00	-3.33	43.25	7.42	Average	245	205
4	5150.00	64.93	74.00	-9.07	57.51	7.42	Peak	245	205
5	5350.00	49.10	54.00	-4.90	42.25	6.85	Average	245	205
6	5350.00	59.08	74.00	-14.92	52.23	6.85	Peak	245	205
7	10400.00	60.85	68.20	-7.35	44.27	16.58	Peak	205	4
8	15600.00	53.39	54.00	-0.61	36.12	17.27	Average	180	359
9	15600.00	66.64	74.00	-7.36	49.37	17.27	Peak	180	359

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

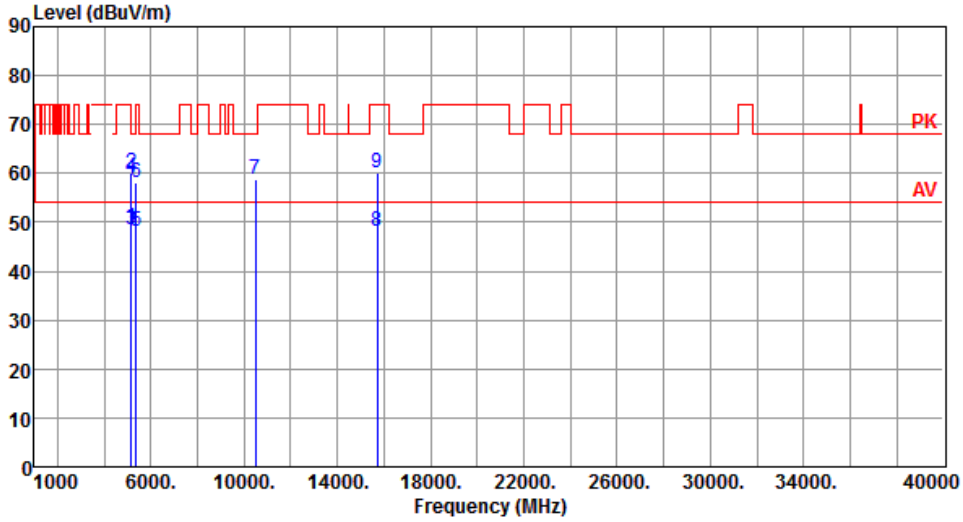
Modulation	11a	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5104.00	51.53	54.00	-2.47	44.22	7.31	Average	100	264
2	5104.00	63.17	74.00	-10.83	55.86	7.31	Peak	100	264
3	5150.00	52.58	54.00	-1.42	45.16	7.42	Average	100	264
4	5150.00	69.43	74.00	-4.57	62.01	7.42	Peak	100	264
5	5350.00	50.42	54.00	-3.58	43.57	6.85	Average	100	264
6	5350.00	60.98	74.00	-13.02	54.13	6.85	Peak	100	264
7	10400.00	59.40	68.20	-8.80	42.82	16.58	Peak	100	20
8	15600.00	50.89	54.00	-3.11	33.62	17.27	Average	193	359
9	15600.00	64.44	74.00	-9.56	47.17	17.27	Peak	193	359

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

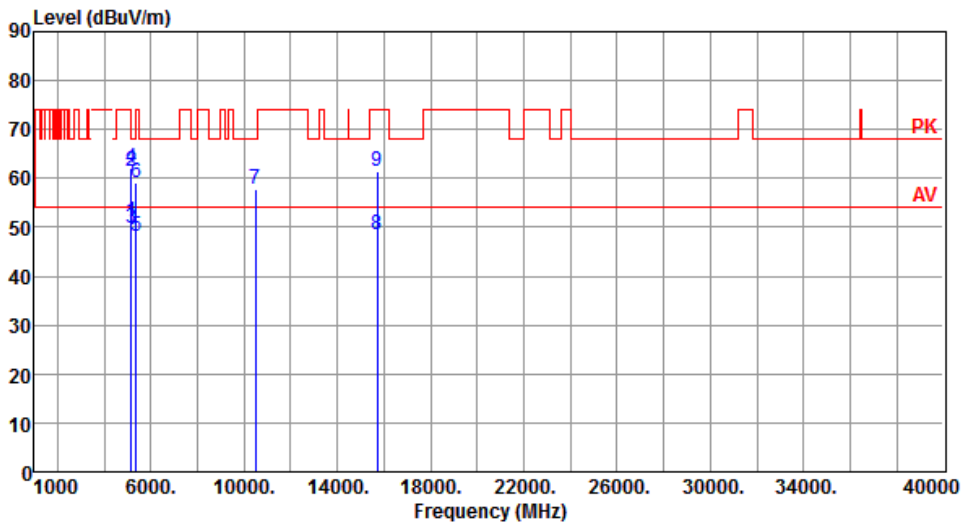
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5144.00	48.96	54.00	-5.04	41.56	7.40	Average	233	207
2	5144.00	59.98	74.00	-14.02	52.58	7.40	Peak	233	207
3	5150.00	48.62	54.00	-5.38	41.20	7.42	Average	233	207
4	5150.00	58.99	74.00	-15.01	51.57	7.42	Peak	233	207
5	5350.00	48.10	54.00	-5.90	41.25	6.85	Average	233	207
6	5350.00	58.05	74.00	-15.95	51.20	6.85	Peak	233	207
7	10480.00	58.76	68.20	-9.44	42.21	16.55	Peak	202	6
8	15720.00	48.13	54.00	-5.87	31.11	17.02	Average	100	30
9	15720.00	60.14	74.00	-13.86	43.12	17.02	Peak	100	30

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

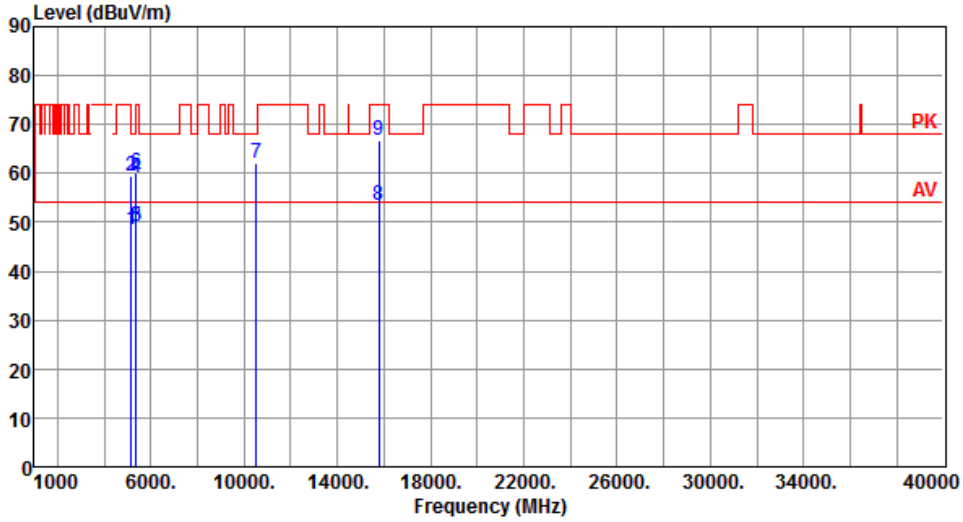
Modulation	11a	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5144.00	50.99	54.00	-3.01	43.59	7.40	Average	100	255
2	5144.00	61.39	74.00	-12.61	53.99	7.40	Peak	100	255
3	5150.00	49.69	54.00	-4.31	42.27	7.42	Average	100	255
4	5150.00	62.26	74.00	-11.74	54.84	7.42	Peak	100	255
5	5350.00	48.07	54.00	-5.93	41.22	6.85	Average	100	255
6	5350.00	59.07	74.00	-14.93	52.22	6.85	Peak	100	255
7	10480.00	57.80	68.20	-10.40	41.25	16.55	Peak	100	8
8	15720.00	48.53	54.00	-5.47	31.51	17.02	Average	189	18
9	15720.00	61.40	74.00	-12.60	44.38	17.02	Peak	189	18

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

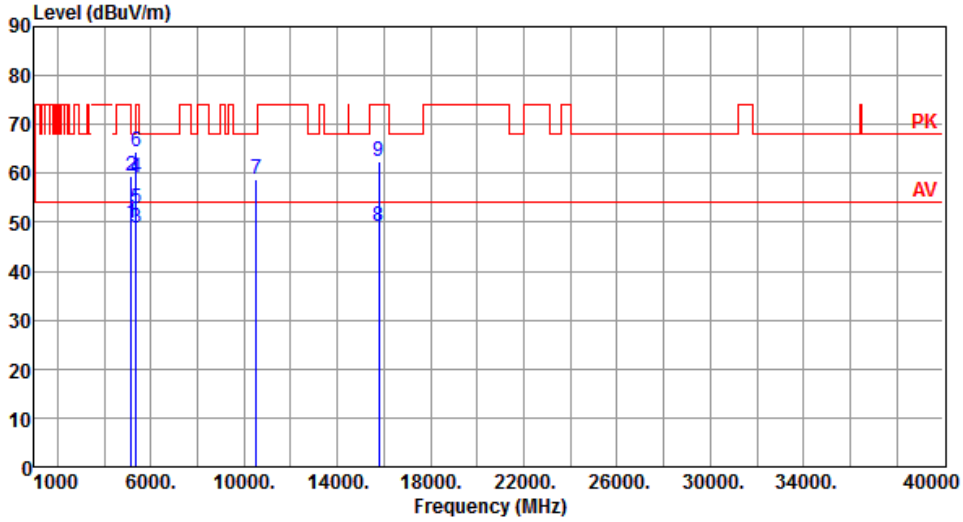
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	48.63	54.00	-5.37	41.21	7.42	Average	263	207
2	5150.00	59.40	74.00	-14.60	51.98	7.42	Peak	263	207
3	5350.00	49.18	54.00	-4.82	42.33	6.85	Average	263	207
4	5350.00	58.99	74.00	-15.01	52.14	6.85	Peak	263	207
5	5356.00	48.99	54.00	-5.01	42.12	6.87	Average	263	207
6	5356.00	60.13	74.00	-13.87	53.26	6.87	Peak	263	207
7	10520.00	62.23	68.20	-5.97	45.67	16.56	Peak	233	7
8	15780.00	53.55	54.00	-0.45	36.81	16.74	Average	185	353
9	15780.00	66.85	74.00	-7.15	50.11	16.74	Peak	185	353

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

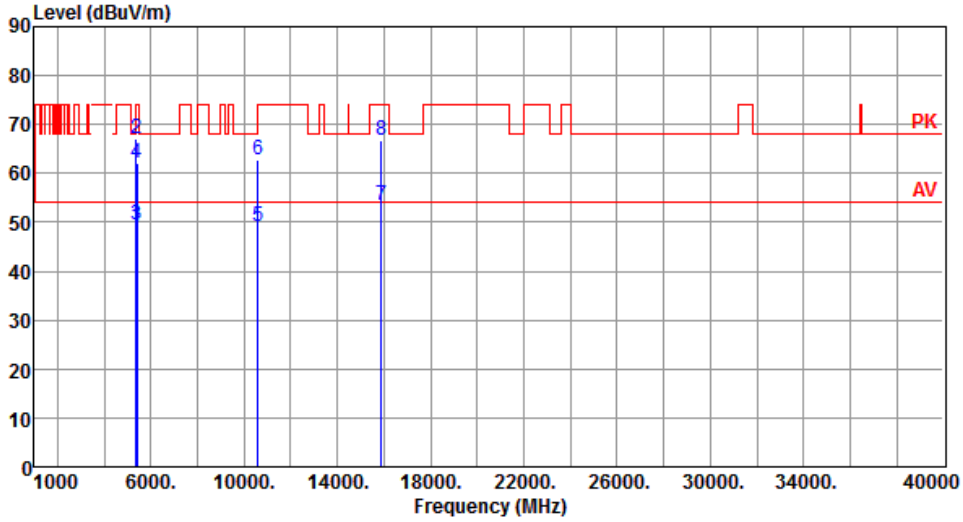
Modulation	11a	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.65	54.00	-4.35	42.23	7.42	Average	100	255
2	5150.00	59.53	74.00	-14.47	52.11	7.42	Peak	100	255
3	5350.00	48.95	54.00	-5.05	42.10	6.85	Average	100	255
4	5350.00	59.16	74.00	-14.84	52.31	6.85	Peak	100	255
5	5356.00	52.67	54.00	-1.33	45.80	6.87	Average	100	255
6	5356.00	64.41	74.00	-9.59	57.54	6.87	Peak	100	255
7	10520.00	58.80	68.20	-9.40	42.24	16.56	Peak	100	8
8	15780.00	49.31	54.00	-4.69	32.57	16.74	Average	177	15
9	15780.00	62.54	74.00	-11.46	45.80	16.74	Peak	177	15

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

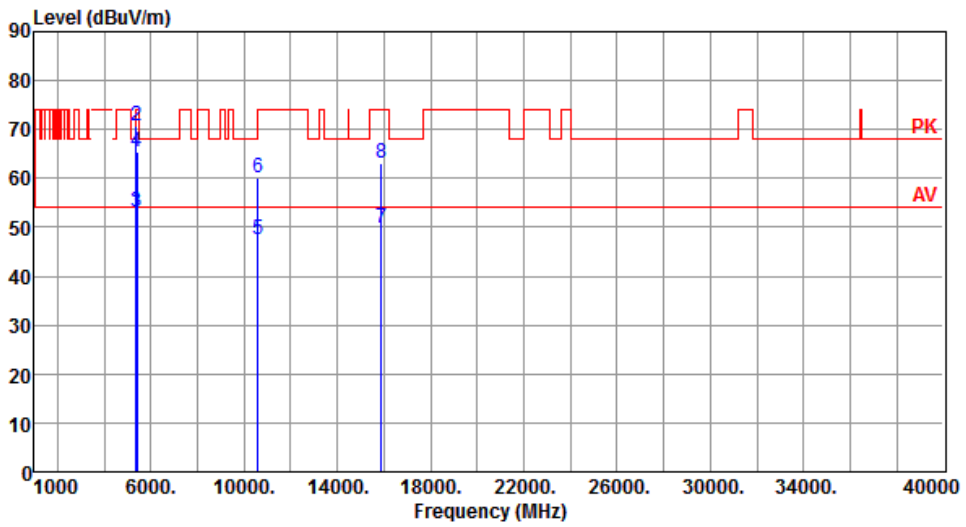
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.21	54.00	-4.79	42.36	6.85	Average	254	204
2	5350.00	66.95	74.00	-7.05	60.10	6.85	Peak	254	204
3	5396.00	49.32	54.00	-4.68	42.25	7.07	Average	254	204
4	5396.00	61.95	74.00	-12.05	54.88	7.07	Peak	254	204
5	10600.00	49.17	54.00	-4.83	32.51	16.66	Average	240	5
6	10600.00	62.77	74.00	-11.23	46.11	16.66	Peak	240	5
7	15900.00	53.60	54.00	-0.40	36.91	16.69	Average	180	355
8	15900.00	66.81	74.00	-7.19	50.12	16.69	Peak	180	355

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

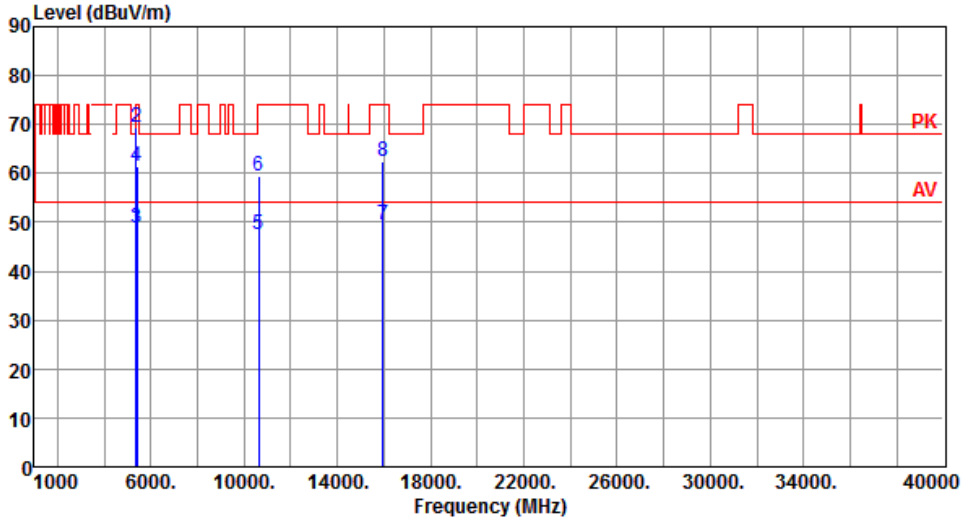
Modulation	11a	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	53.30	54.00	-0.70	46.45	6.85	Average	100	254
2	5350.00	70.74	74.00	-3.26	63.89	6.85	Peak	100	254
3	5396.00	53.06	54.00	-0.94	45.99	7.07	Average	100	254
4	5396.00	65.28	74.00	-8.72	58.21	7.07	Peak	100	254
5	10600.00	47.54	54.00	-6.46	30.88	16.66	Average	100	20
6	10600.00	60.17	74.00	-13.83	43.51	16.66	Peak	100	20
7	15900.00	49.90	54.00	-4.10	33.21	16.69	Average	165	5
8	15900.00	63.11	74.00	-10.89	46.42	16.69	Peak	165	5

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

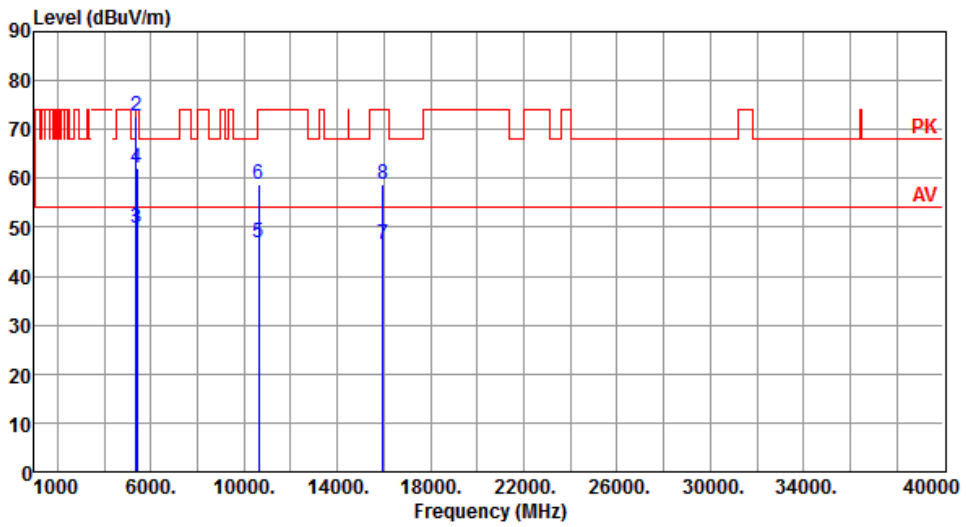
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.73	54.00	-5.27	41.88	6.85	Average	254	204
2	5350.00	69.37	74.00	-4.63	62.52	6.85	Peak	254	204
3	5416.00	48.72	54.00	-5.28	41.56	7.16	Average	254	204
4	5416.00	61.39	74.00	-12.61	54.23	7.16	Peak	254	204
5	10640.00	47.52	54.00	-6.48	30.89	16.63	Average	100	3
6	10640.00	59.51	74.00	-14.49	42.88	16.63	Peak	100	3
7	15960.00	49.58	54.00	-4.42	32.87	16.71	Average	195	359
8	15960.00	62.56	74.00	-11.44	45.85	16.71	Peak	195	359

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

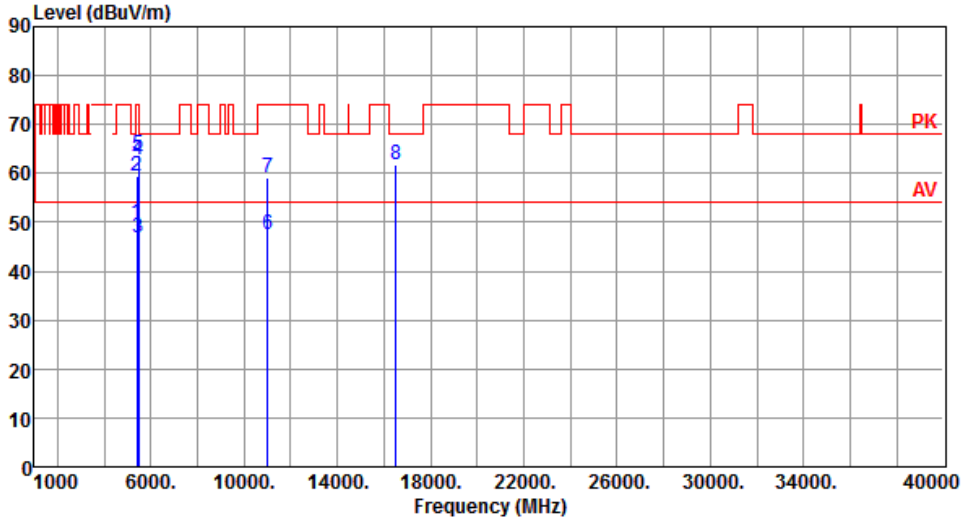
Modulation	11a	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.16	54.00	-4.84	42.31	6.85	Average	100	256
2	5350.00	72.76	74.00	-1.24	65.91	6.85	Peak	100	256
3	5416.00	49.78	54.00	-4.22	42.62	7.16	Average	100	256
4	5416.00	62.18	74.00	-11.82	55.02	7.16	Peak	100	256
5	10640.00	46.87	54.00	-7.13	30.24	16.63	Average	100	8
6	10640.00	58.90	74.00	-15.10	42.27	16.63	Peak	100	8
7	15960.00	46.60	54.00	-7.40	29.89	16.71	Average	100	11
8	15960.00	58.92	74.00	-15.08	42.21	16.71	Peak	100	11

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

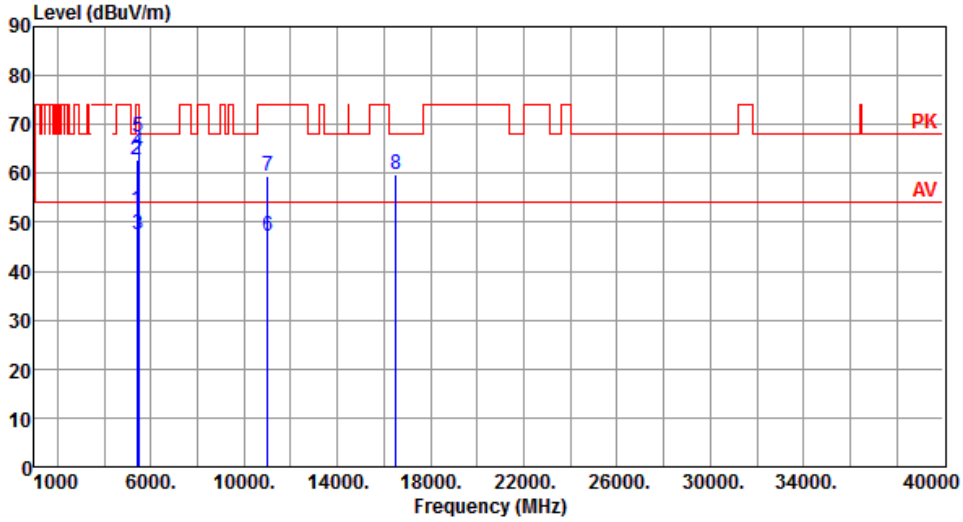
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5404.00	49.95	54.00	-4.05	42.84	7.11	Average	245	210
2	5404.00	59.43	74.00	-14.57	52.32	7.11	Peak	245	210
3	5460.00	46.92	54.00	-7.08	39.55	7.37	Average	245	210
4	5460.00	62.89	74.00	-11.11	55.52	7.37	Peak	245	210
5	5470.00	63.63	68.20	-4.57	56.21	7.42	Peak	245	210
6	11000.00	47.48	54.00	-6.52	30.54	16.94	Average	100	5
7	11000.00	59.04	74.00	-14.96	42.10	16.94	Peak	100	5
8	16500.00	61.89	68.20	-6.31	44.25	17.64	Peak	192	15

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

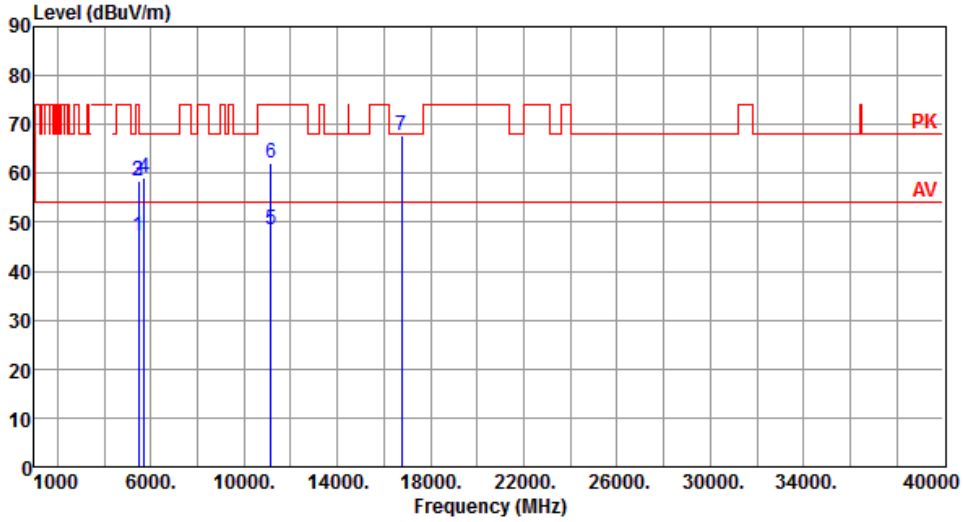
Modulation	11a	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5404.00	52.36	54.00	-1.64	45.25	7.11	Average	100	256
2	5404.00	62.82	74.00	-11.18	55.71	7.11	Peak	100	256
3	5460.00	47.35	54.00	-6.65	39.98	7.37	Average	100	256
4	5460.00	64.35	74.00	-9.65	56.98	7.37	Peak	100	256
5	5470.00	67.40	68.20	-0.80	59.98	7.42	Peak	100	256
6	11000.00	47.21	54.00	-6.79	30.27	16.94	Average	100	7
7	11000.00	59.29	74.00	-14.71	42.35	16.94	Peak	100	7
8	16500.00	59.85	68.20	-8.35	42.21	17.64	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

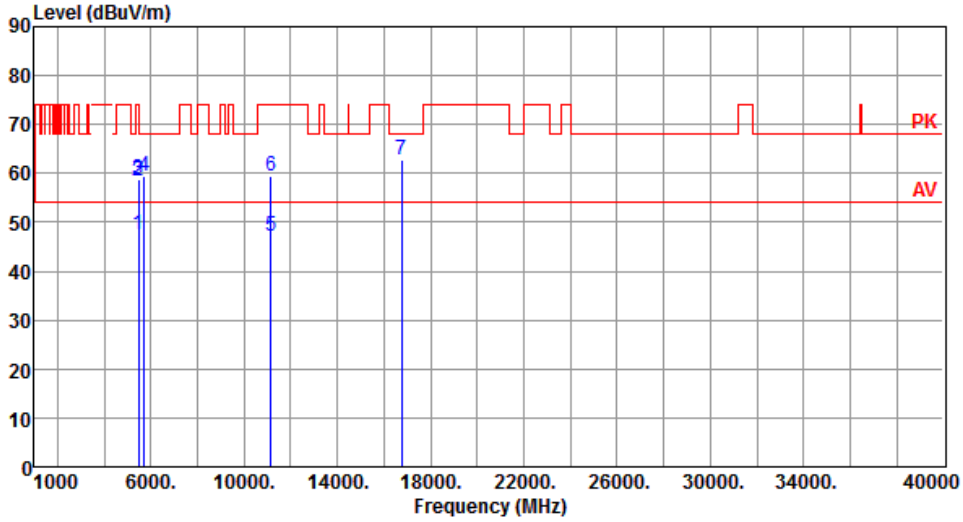
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.26	54.00	-6.74	39.89	7.37	Average	263	208
2	5460.00	58.42	74.00	-15.58	51.05	7.37	Peak	263	208
3	5470.00	58.47	68.20	-9.73	51.05	7.42	Peak	263	208
4	5725.00	58.97	68.20	-9.23	51.21	7.76	Peak	263	208
5	11160.00	48.57	54.00	-5.43	31.94	16.63	Average	199	3
6	11160.00	61.95	74.00	-12.05	45.32	16.63	Peak	199	3
7	16740.00	67.73	68.20	-0.47	49.14	18.59	Peak	189	19

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

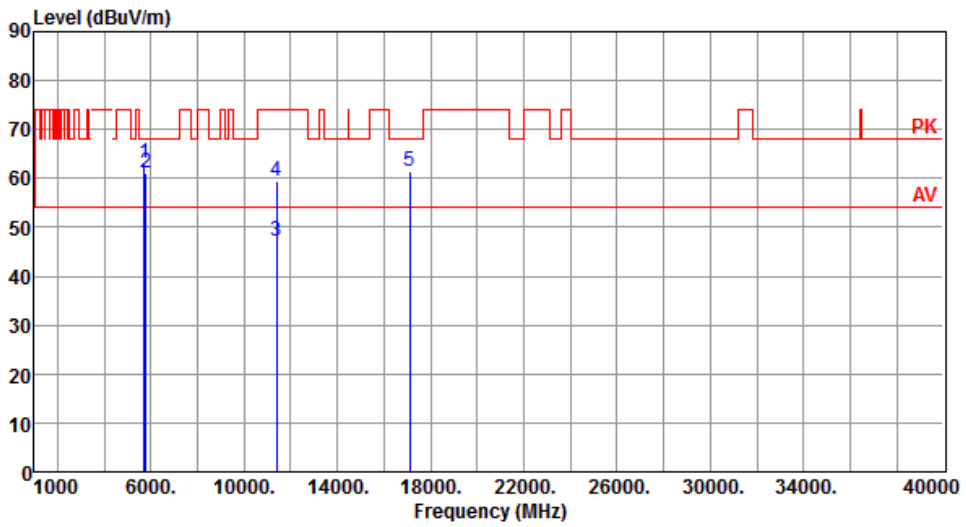
Modulation	11a	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.57	54.00	-6.43	40.20	7.37	Average	100	261
2	5460.00	58.57	74.00	-15.43	51.20	7.37	Peak	100	261
3	5470.00	58.94	68.20	-9.26	51.52	7.42	Peak	100	261
4	5725.00	59.33	68.20	-8.87	51.57	7.76	Peak	100	261
5	11160.00	47.25	54.00	-6.75	30.62	16.63	Average	100	349
6	11160.00	59.39	74.00	-14.61	42.76	16.63	Peak	100	349
7	16740.00	62.72	68.20	-5.48	44.13	18.59	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

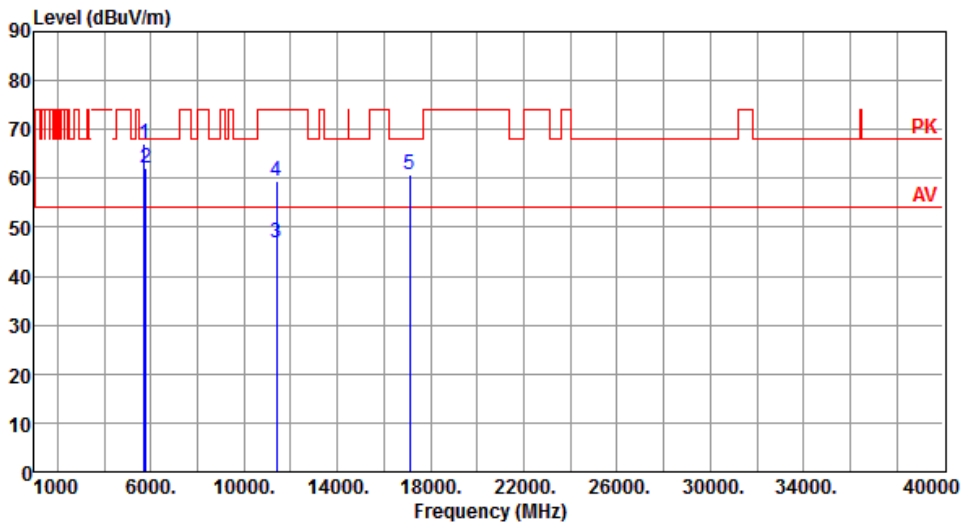
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	63.00	68.20	-5.20	55.24	7.76	Peak	255	200
2	5796.00	61.12	68.20	-7.08	53.22	7.90	Peak	255	200
3	11400.00	47.26	54.00	-6.74	30.53	16.73	Average	100	4
4	11400.00	59.32	74.00	-14.68	42.59	16.73	Peak	100	4
5	17100.00	61.54	68.20	-6.66	43.00	18.54	Peak	193	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

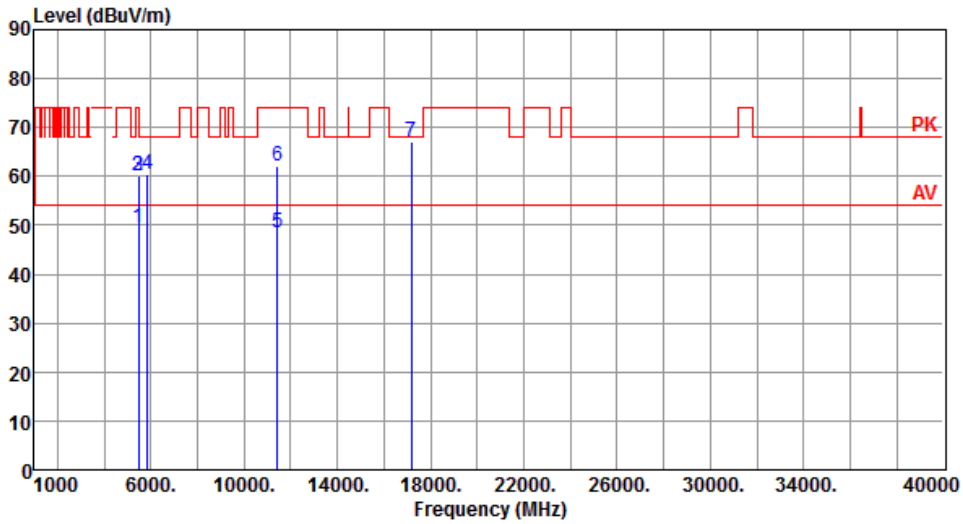
Modulation	11a	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	67.17	68.20	-1.03	59.41	7.76	Peak	100	258
2	5796.00	62.01	68.20	-6.19	54.11	7.90	Peak	100	258
3	11400.00	46.92	54.00	-7.08	30.19	16.73	Average	100	2
4	11400.00	59.60	74.00	-14.40	42.87	16.73	Peak	100	2
5	17100.00	60.90	68.20	-7.30	42.36	18.54	Peak	100	11

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

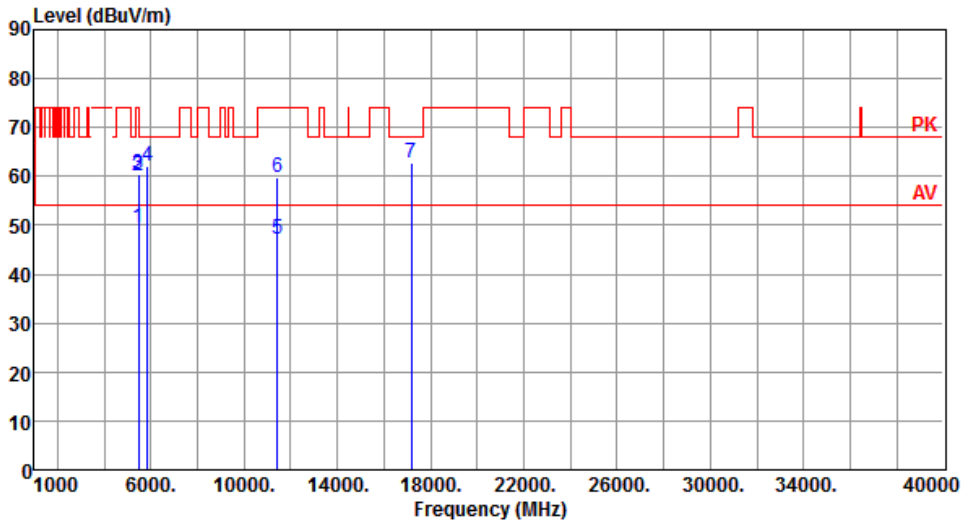
Modulation	11a	Test Freq. (MHz)	5720
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.61	54.00	-4.39	42.24	7.37	Average	232	214
2	5460.00	60.21	74.00	-13.79	52.84	7.37	Peak	232	214
3	5470.00	60.02	68.20	-8.18	52.60	7.42	Peak	232	214
4	5850.00	60.37	68.20	-7.83	52.25	8.12	Peak	232	214
5	11440.00	48.64	54.00	-5.36	31.86	16.78	Average	195	4
6	11440.00	61.99	74.00	-12.01	45.21	16.78	Peak	195	4
7	17160.00	67.10	68.20	-1.10	48.60	18.50	Peak	181	21

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

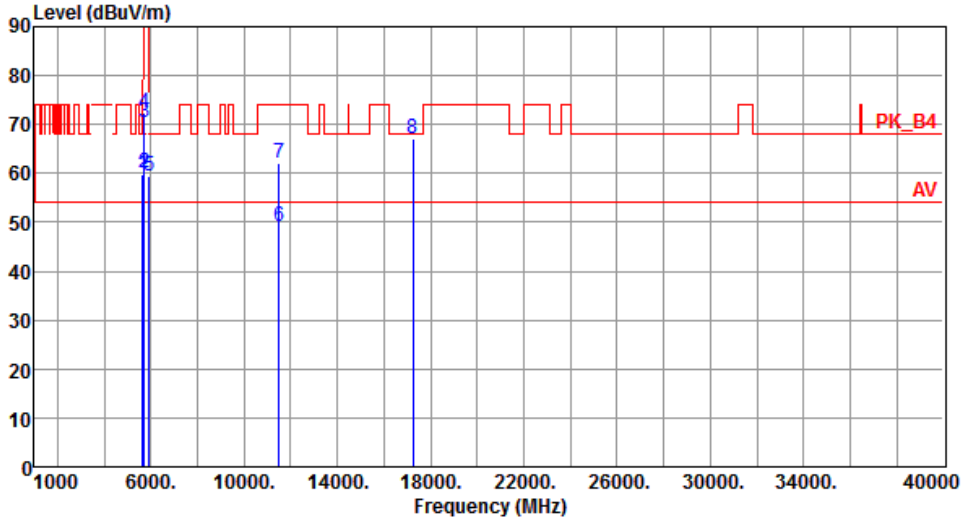
Modulation	11a	Test Freq. (MHz)	5720
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.57	54.00	-4.43	42.20	7.37	Average	100	265
2	5460.00	60.25	74.00	-13.75	52.88	7.37	Peak	100	265
3	5470.00	60.38	68.20	-7.82	52.96	7.42	Peak	100	265
4	5850.00	62.24	68.20	-5.96	54.12	8.12	Peak	100	265
5	11440.00	47.15	54.00	-6.85	30.37	16.78	Average	100	5
6	11440.00	59.62	74.00	-14.38	42.84	16.78	Peak	100	5
7	17160.00	62.74	68.20	-5.46	44.24	18.50	Peak	186	18

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

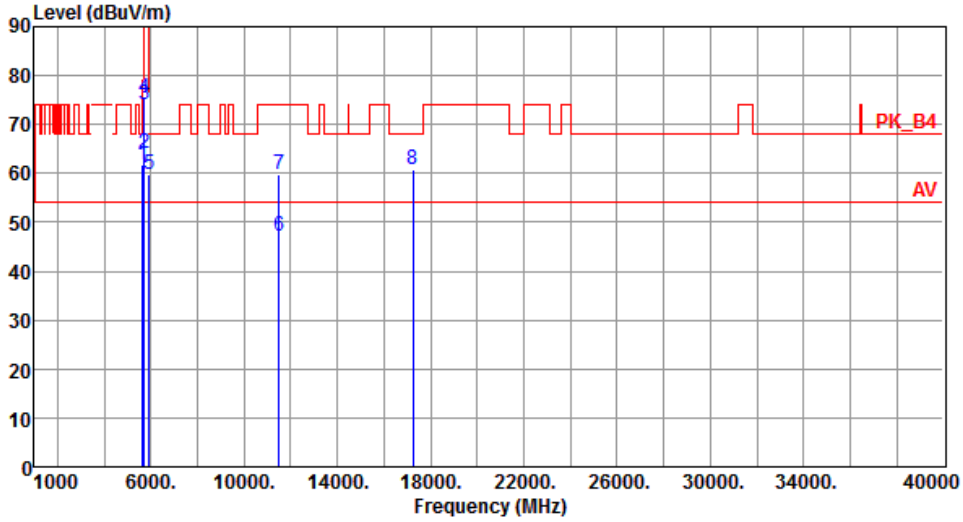
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.64	68.20	-8.56	52.25	7.39	Peak	228	310
2	5700.00	60.09	105.20	-45.11	52.39	7.70	Peak	228	310
3	5720.00	70.32	110.80	-40.48	62.58	7.74	Peak	228	310
4	5725.00	72.30	122.20	-49.90	64.54	7.76	Peak	228	310
5	5925.00	59.53	68.20	-8.67	51.26	8.27	Peak	228	310
6	11490.00	49.27	54.00	-4.73	32.42	16.85	Average	195	45
7	11490.00	62.13	74.00	-11.87	45.28	16.85	Peak	195	45
8	17235.00	67.03	68.20	-1.17	48.42	18.61	Peak	183	25

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

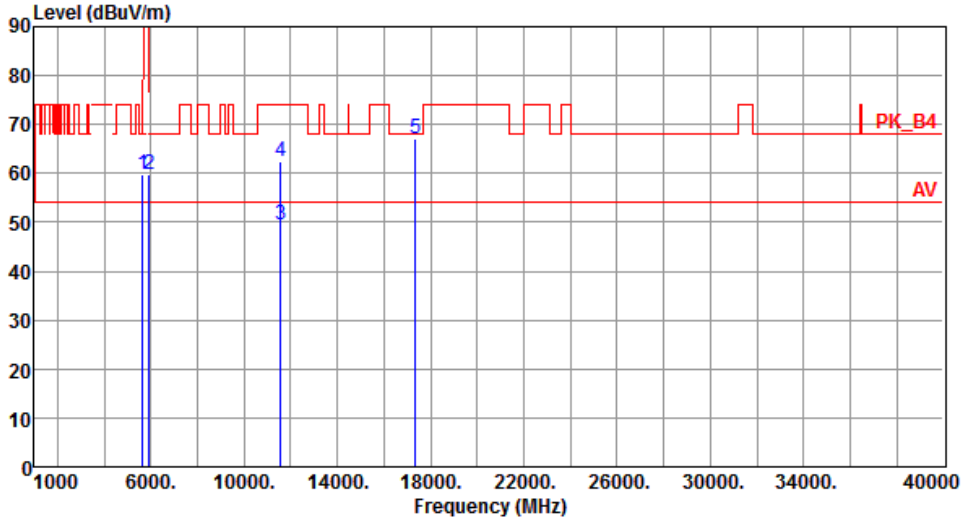
Modulation	11a	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	61.64	68.20	-6.56	54.25	7.39	Peak	100	254
2	5700.00	63.95	105.20	-41.25	56.25	7.70	Peak	100	254
3	5720.00	73.99	110.80	-36.81	66.25	7.74	Peak	100	254
4	5725.00	75.27	122.20	-46.93	67.51	7.76	Peak	100	254
5	5925.00	59.83	68.20	-8.37	51.56	8.27	Peak	100	254
6	11490.00	47.07	54.00	-6.93	30.22	16.85	Average	100	3
7	11490.00	59.70	74.00	-14.30	42.85	16.85	Peak	100	3
8	17235.00	60.86	68.20	-7.34	42.25	18.61	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

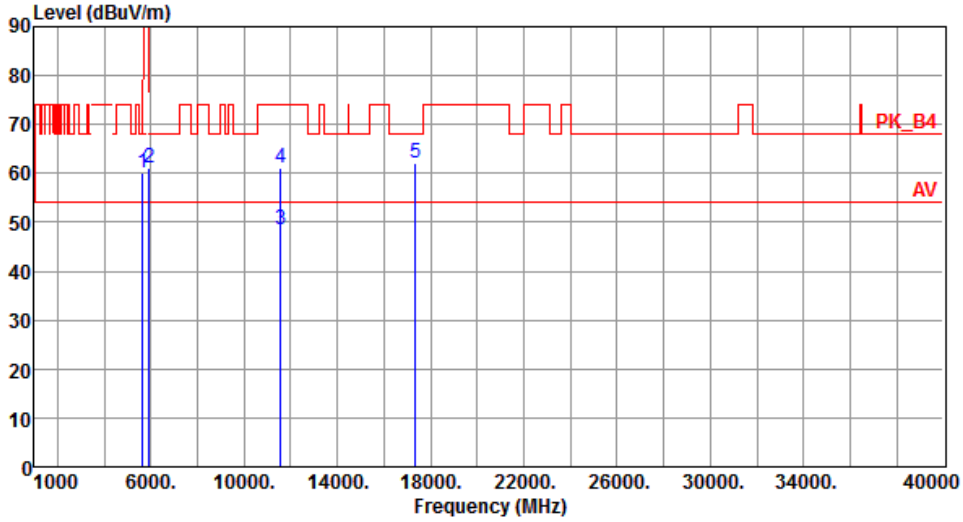
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.64	68.20	-8.56	52.25	7.39	Peak	238	312
2	5925.00	59.80	68.20	-8.40	51.53	8.27	Peak	238	312
3	11570.00	49.47	54.00	-4.53	32.76	16.71	Average	199	48
4	11570.00	62.40	74.00	-11.60	45.69	16.71	Peak	199	48
5	17355.00	67.16	68.20	-1.04	47.92	19.24	Peak	178	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

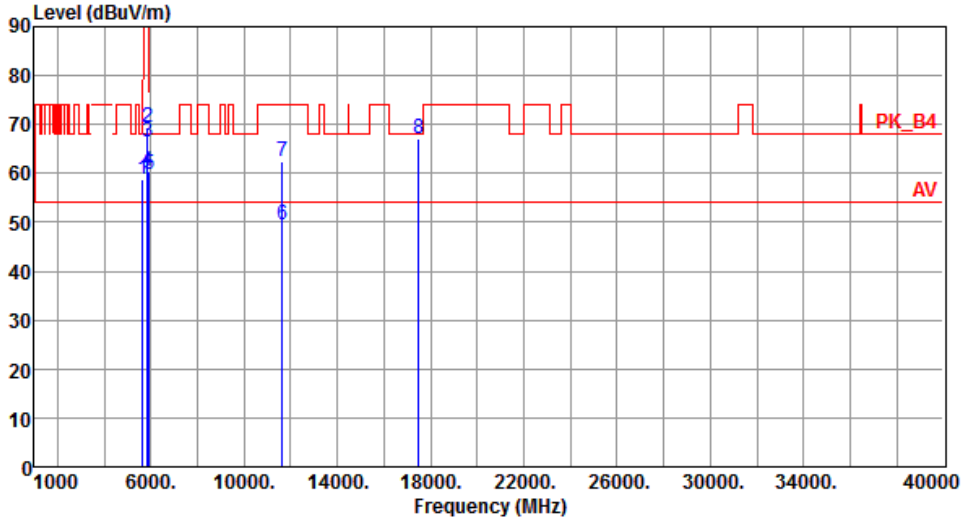
Modulation	11a	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	60.23	68.20	-7.97	52.84	7.39	Peak	100	268
2	5925.00	60.99	68.20	-7.21	52.72	8.27	Peak	100	268
3	11570.00	48.43	54.00	-5.57	31.72	16.71	Average	100	3
4	11570.00	61.17	74.00	-12.83	44.46	16.71	Peak	100	3
5	17355.00	62.22	68.20	-5.98	42.98	19.24	Peak	100	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

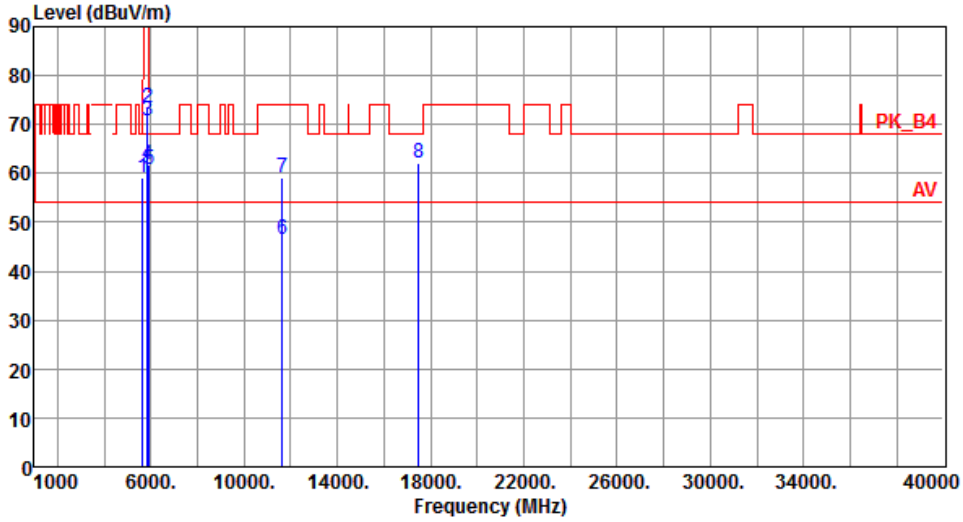
Modulation	11a	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	58.64	68.20	-9.56	51.25	7.39	Peak	237	319
2	5850.00	69.32	122.20	-52.88	61.20	8.12	Peak	237	319
3	5855.00	66.38	110.80	-44.42	58.25	8.13	Peak	237	319
4	5875.00	60.42	105.20	-44.78	52.24	8.18	Peak	237	319
5	5925.00	59.80	68.20	-8.40	51.53	8.27	Peak	237	319
6	11650.00	49.60	54.00	-4.40	33.12	16.48	Average	196	45
7	11650.00	62.44	74.00	-11.56	45.96	16.48	Peak	196	45
8	17475.00	66.98	68.20	-1.22	47.14	19.84	Peak	172	17

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11a	Test Freq. (MHz)	5825
Polarization	Vertical		

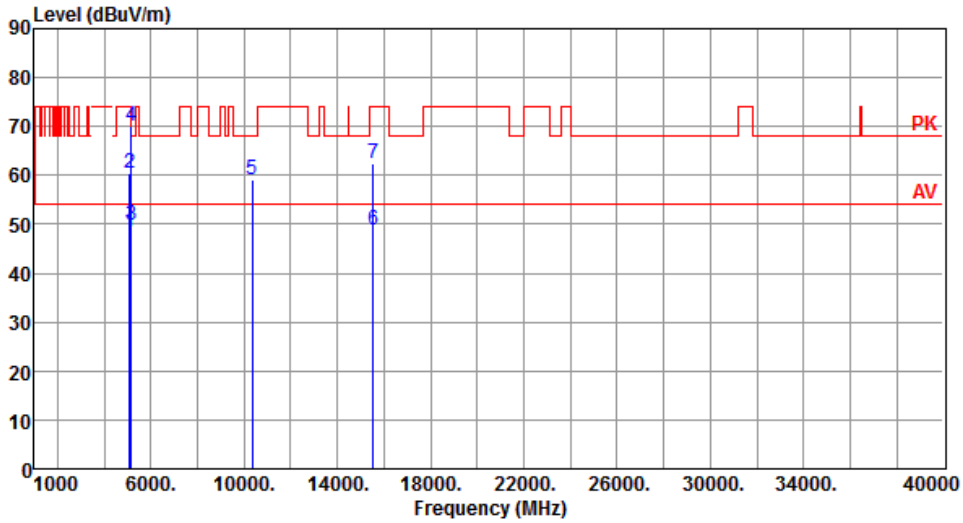


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.05	68.20	-9.15	51.66	7.39	Peak	100	248
2	5850.00	73.53	122.20	-48.67	65.41	8.12	Peak	100	248
3	5855.00	70.65	110.80	-40.15	62.52	8.13	Peak	100	248
4	5875.00	61.75	105.20	-43.45	53.57	8.18	Peak	100	248
5	5925.00	60.73	68.20	-7.47	52.46	8.27	Peak	100	248
6	11650.00	46.65	54.00	-7.35	30.17	16.48	Average	100	5
7	11650.00	58.98	74.00	-15.02	42.50	16.48	Peak	100	5
8	17475.00	62.18	68.20	-6.02	42.34	19.84	Peak	100	11

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT20

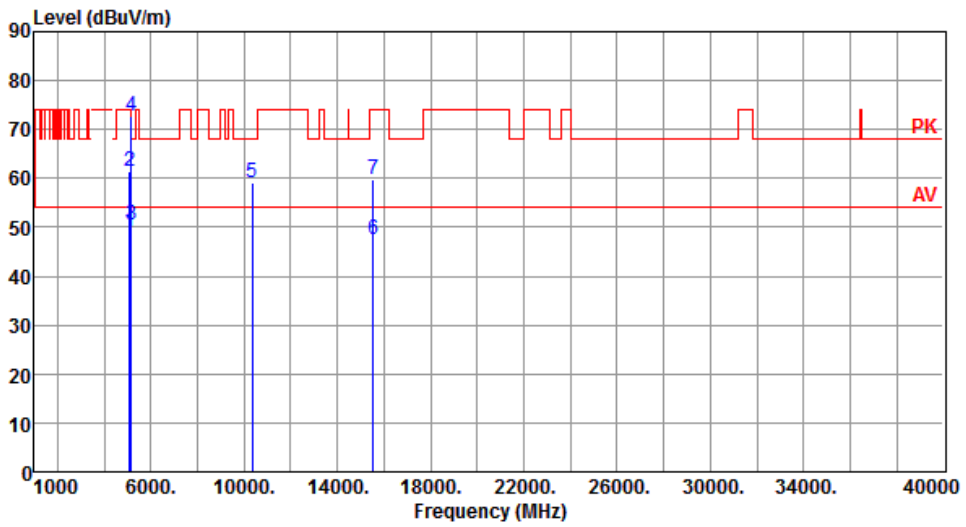
Modulation	VHT20	**Test Freq. (MHz)**	5180
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5084.00	48.46	54.00	-5.54	41.22	7.24	Average	245	210
2	5084.00	60.48	74.00	-13.52	53.24	7.24	Peak	245	210
3	5150.00	49.97	54.00	-4.03	42.55	7.42	Average	245	210
4	5150.00	69.99	74.00	-4.01	62.57	7.42	Peak	245	210
5	10360.00	59.19	68.20	-9.01	42.84	16.35	Peak	100	3
6	15540.00	48.68	54.00	-5.32	31.25	17.43	Average	184	6
7	15540.00	62.31	74.00	-11.69	44.88	17.43	Peak	184	6

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

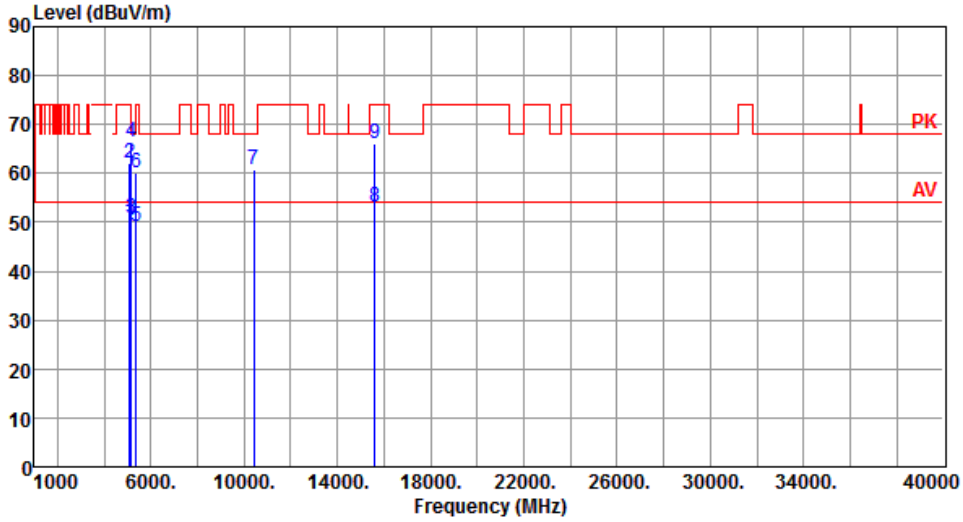
Modulation	VHT20	Test Freq. (MHz)	5180
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5084.00	49.11	54.00	-4.89	41.87	7.24	Average	100	262
2	5084.00	61.57	74.00	-12.43	54.33	7.24	Peak	100	262
3	5150.00	50.38	54.00	-3.62	42.96	7.42	Average	100	262
4	5150.00	72.87	74.00	-1.13	65.45	7.42	Peak	100	262
5	10360.00	59.19	68.20	-9.01	42.84	16.35	Peak	100	6
6	15540.00	47.64	54.00	-6.36	30.21	17.43	Average	100	9
7	15540.00	59.68	74.00	-14.32	42.25	17.43	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

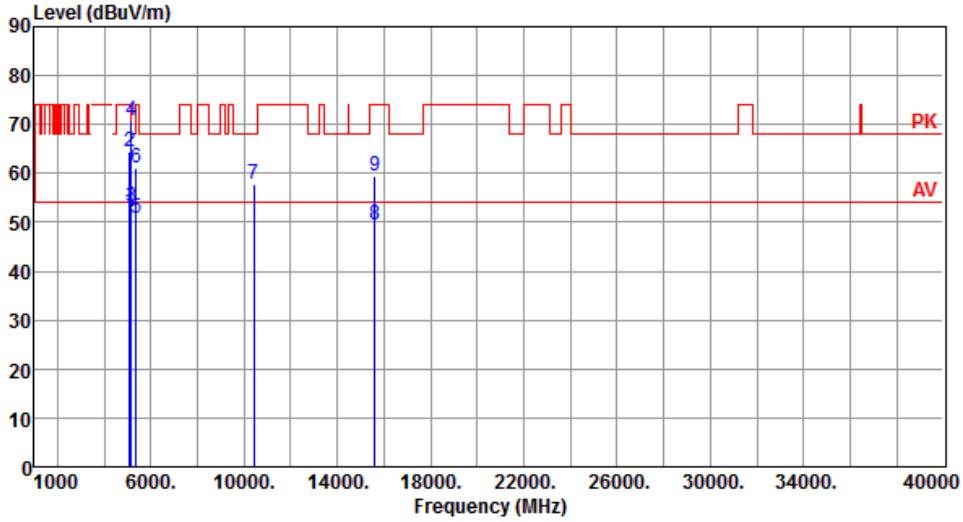
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5104.00	50.15	54.00	-3.85	42.84	7.31	Average	237	211
2	5104.00	62.00	74.00	-12.00	54.69	7.31	Peak	237	211
3	5150.00	50.65	54.00	-3.35	43.23	7.42	Average	237	211
4	5150.00	66.26	74.00	-7.74	58.84	7.42	Peak	237	211
5	5350.00	48.99	54.00	-5.01	42.14	6.85	Average	237	211
6	5350.00	60.08	74.00	-13.92	53.23	6.85	Peak	237	211
7	10400.00	60.94	68.20	-7.26	44.36	16.58	Peak	202	3
8	15600.00	53.08	54.00	-0.92	35.81	17.27	Average	181	355
9	15600.00	66.18	74.00	-7.82	48.91	17.27	Peak	181	353

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

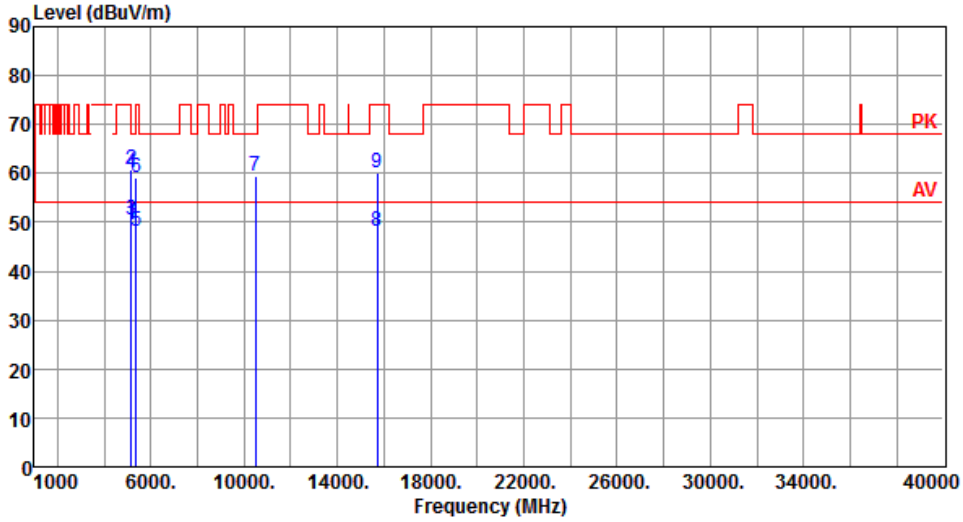
Modulation	VHT20	Test Freq. (MHz)	5200
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5104.00	52.16	54.00	-1.84	44.85	7.31	Average	100	262
2	5104.00	64.31	74.00	-9.69	57.00	7.31	Peak	100	262
3	5150.00	52.99	54.00	-1.01	45.57	7.42	Average	100	262
4	5150.00	70.82	74.00	-3.18	63.40	7.42	Peak	100	262
5	5350.00	50.72	54.00	-3.28	43.87	6.85	Average	100	262
6	5350.00	61.01	74.00	-12.99	54.16	6.85	Peak	100	262
7	10400.00	57.83	68.20	-10.37	41.25	16.58	Peak	100	8
8	15600.00	49.52	54.00	-4.48	32.25	17.27	Average	100	9
9	15600.00	59.55	74.00	-14.45	42.28	17.27	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

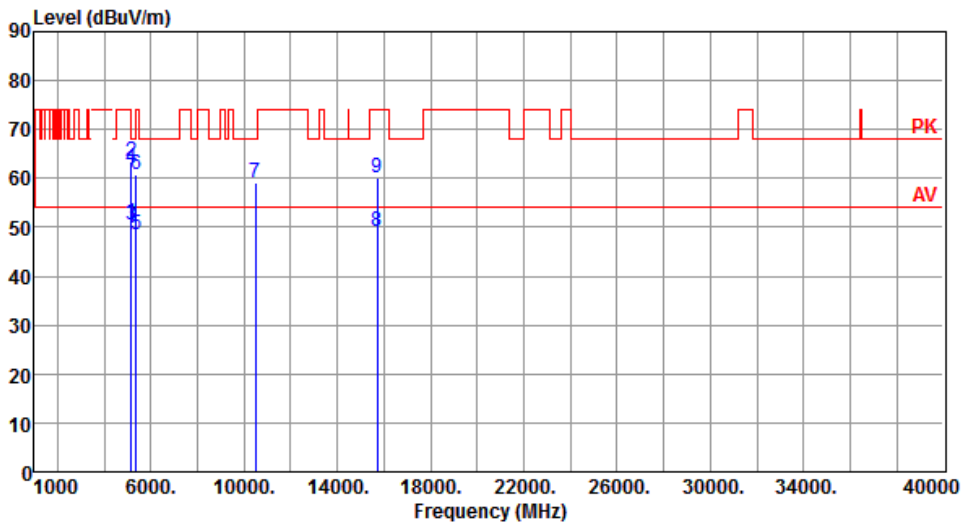
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5144.00	49.98	54.00	-4.02	42.58	7.40	Average	237	213
2	5144.00	60.65	74.00	-13.35	53.25	7.40	Peak	237	213
3	5150.00	50.40	54.00	-3.60	42.98	7.42	Average	237	213
4	5150.00	60.26	74.00	-13.74	52.84	7.42	Peak	237	213
5	5350.00	48.10	54.00	-5.90	41.25	6.85	Average	237	213
6	5350.00	59.06	74.00	-14.94	52.21	6.85	Peak	237	213
7	10480.00	59.39	68.20	-8.81	42.84	16.55	Peak	201	9
8	15720.00	48.16	54.00	-5.84	31.14	17.02	Average	201	9
9	15720.00	60.20	74.00	-13.80	43.18	17.02	Peak	201	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

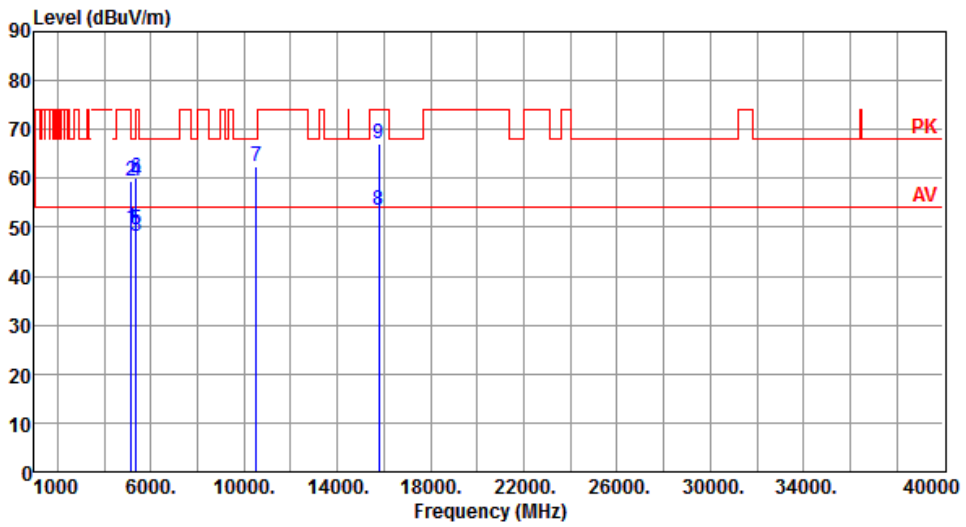
Modulation	VHT20	Test Freq. (MHz)	5240
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5144.00	50.87	54.00	-3.13	43.47	7.40	Average	100	258
2	5144.00	63.32	74.00	-10.68	55.92	7.40	Peak	100	258
3	5150.00	50.53	54.00	-3.47	43.11	7.42	Average	100	258
4	5150.00	62.26	74.00	-11.74	54.84	7.42	Peak	100	258
5	5350.00	48.36	54.00	-5.64	41.51	6.85	Average	100	258
6	5350.00	60.65	74.00	-13.35	53.80	6.85	Peak	100	258
7	10480.00	59.02	68.20	-9.18	42.47	16.55	Peak	100	4
8	15720.00	49.16	54.00	-4.84	32.14	17.02	Average	100	9
9	15720.00	60.27	74.00	-13.73	43.25	17.02	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

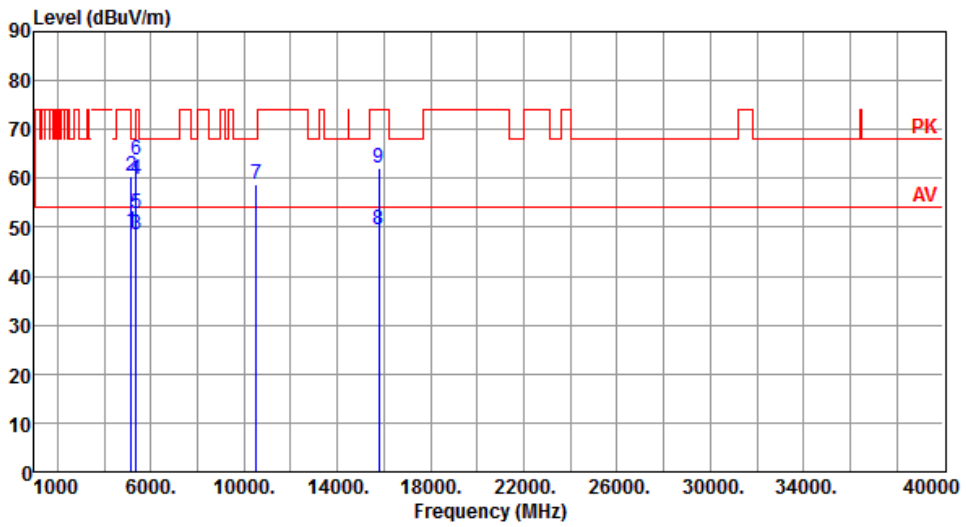
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.74	54.00	-4.26	42.32	7.42	Average	235	113
2	5150.00	59.56	74.00	-14.44	52.14	7.42	Peak	235	113
3	5350.00	48.09	54.00	-5.91	41.24	6.85	Average	235	113
4	5350.00	59.38	74.00	-14.62	52.53	6.85	Peak	235	113
5	5356.00	49.59	54.00	-4.41	42.72	6.87	Average	235	113
6	5356.00	60.09	74.00	-13.91	53.22	6.87	Peak	235	113
7	10520.00	62.38	68.20	-5.82	45.82	16.56	Peak	240	6
8	15780.00	53.51	54.00	-0.49	36.77	16.74	Average	186	354
9	15780.00	66.95	74.00	-7.05	50.21	16.74	Peak	186	354

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

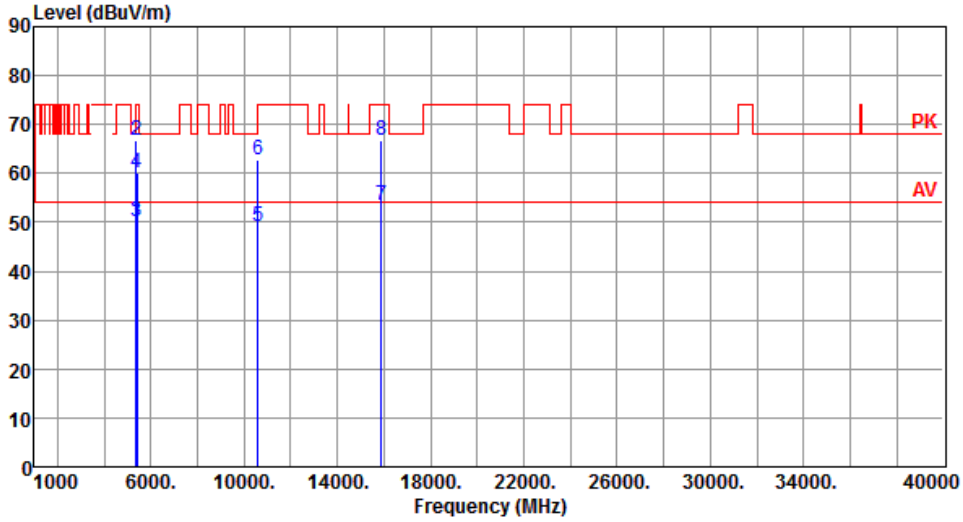
Modulation	VHT20	Test Freq. (MHz)	5260
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	49.29	54.00	-4.71	41.87	7.42	Average	100	256
2	5150.00	60.31	74.00	-13.69	52.89	7.42	Peak	100	256
3	5350.00	48.42	54.00	-5.58	41.57	6.85	Average	100	256
4	5350.00	59.63	74.00	-14.37	52.78	6.85	Peak	100	256
5	5356.00	52.70	54.00	-1.30	45.83	6.87	Average	100	256
6	5356.00	63.73	74.00	-10.27	56.86	6.87	Peak	100	256
7	10520.00	58.70	68.20	-9.50	42.14	16.56	Peak	100	8
8	15780.00	49.58	54.00	-4.42	32.84	16.74	Average	100	11
9	15780.00	61.99	74.00	-12.01	45.25	16.74	Peak	100	11

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

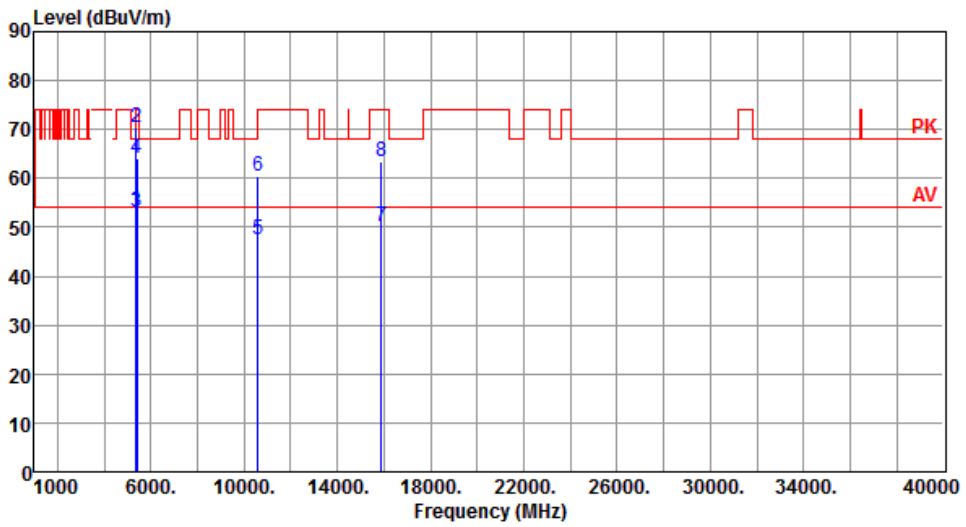
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.99	54.00	-4.01	43.14	6.85	Average	254	203
2	5350.00	66.73	74.00	-7.27	59.88	6.85	Peak	254	203
3	5396.00	50.17	54.00	-3.83	43.10	7.07	Average	254	203
4	5396.00	60.18	74.00	-13.82	53.11	7.07	Peak	254	203
5	10600.00	49.11	54.00	-4.89	32.45	16.66	Average	238	7
6	10600.00	62.81	74.00	-11.19	46.15	16.66	Peak	238	7
7	15900.00	53.57	54.00	-0.43	36.88	16.69	Average	182	356
8	15900.00	66.84	74.00	-7.16	50.15	16.69	Peak	182	356

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

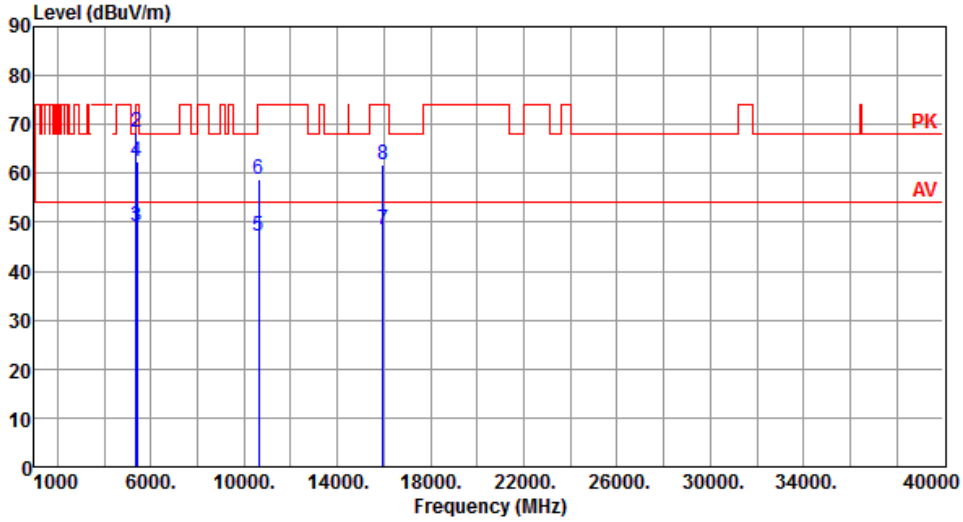
Modulation	VHT20	Test Freq. (MHz)	5300
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	53.44	54.00	-0.56	46.59	6.85	Average	100	256
2	5350.00	70.55	74.00	-3.45	63.70	6.85	Peak	100	256
3	5396.00	53.28	54.00	-0.72	46.21	7.07	Average	100	256
4	5396.00	63.95	74.00	-10.05	56.88	7.07	Peak	100	256
5	10600.00	47.60	54.00	-6.40	30.94	16.66	Average	100	15
6	10600.00	60.33	74.00	-13.67	43.67	16.66	Peak	100	15
7	15900.00	50.14	54.00	-3.86	33.45	16.69	Average	168	3
8	15900.00	63.28	74.00	-10.72	46.59	16.69	Peak	168	3

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

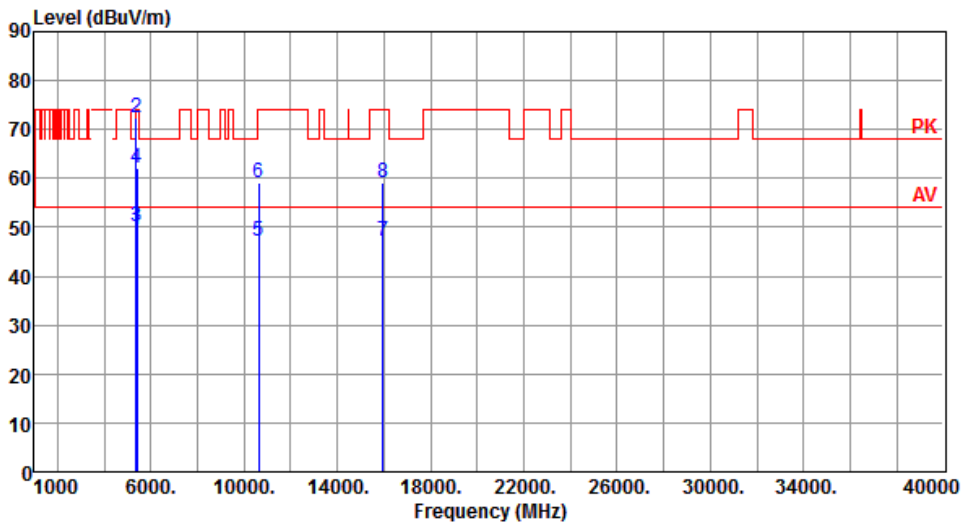
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	48.85	54.00	-5.15	42.00	6.85	Average	261	212
2	5350.00	68.37	74.00	-5.63	61.52	6.85	Peak	261	212
3	5416.00	49.27	54.00	-4.73	42.11	7.16	Average	261	212
4	5416.00	62.31	74.00	-11.69	55.15	7.16	Peak	261	212
5	10640.00	47.05	54.00	-6.95	30.42	16.63	Average	100	8
6	10640.00	58.77	74.00	-15.23	42.14	16.63	Peak	100	8
7	15960.00	48.48	54.00	-5.52	31.77	16.71	Average	178	3
8	15960.00	61.93	74.00	-12.07	45.22	16.71	Peak	178	3

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

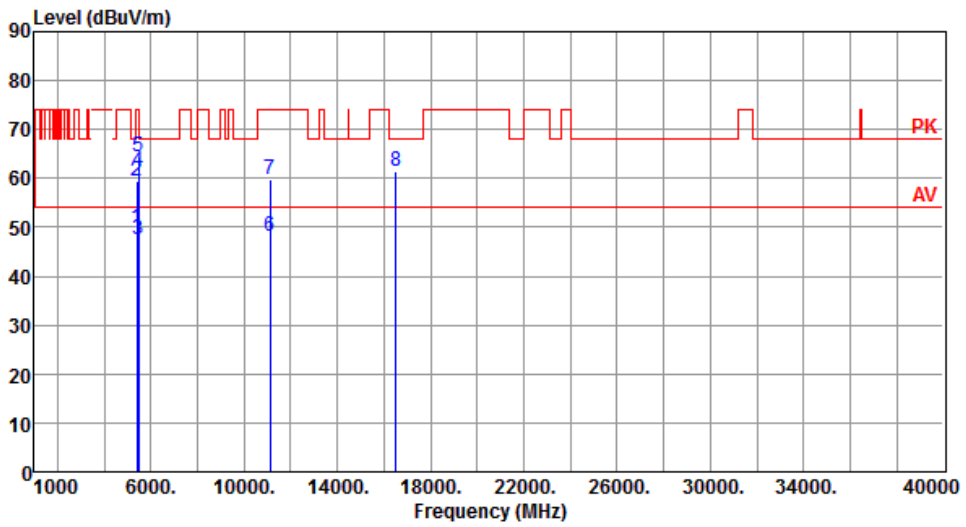
Modulation	VHT20	Test Freq. (MHz)	5320
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.39	54.00	-4.61	42.54	6.85	Average	100	266
2	5350.00	72.55	74.00	-1.45	65.70	6.85	Peak	100	266
3	5416.00	50.08	54.00	-3.92	42.92	7.16	Average	100	266
4	5416.00	62.25	74.00	-11.75	55.09	7.16	Peak	100	266
5	10640.00	47.04	54.00	-6.96	30.41	16.63	Average	100	6
6	10640.00	59.26	74.00	-14.74	42.63	16.63	Peak	100	6
7	15960.00	47.12	54.00	-6.88	30.41	16.71	Average	100	9
8	15960.00	59.13	74.00	-14.87	42.42	16.71	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

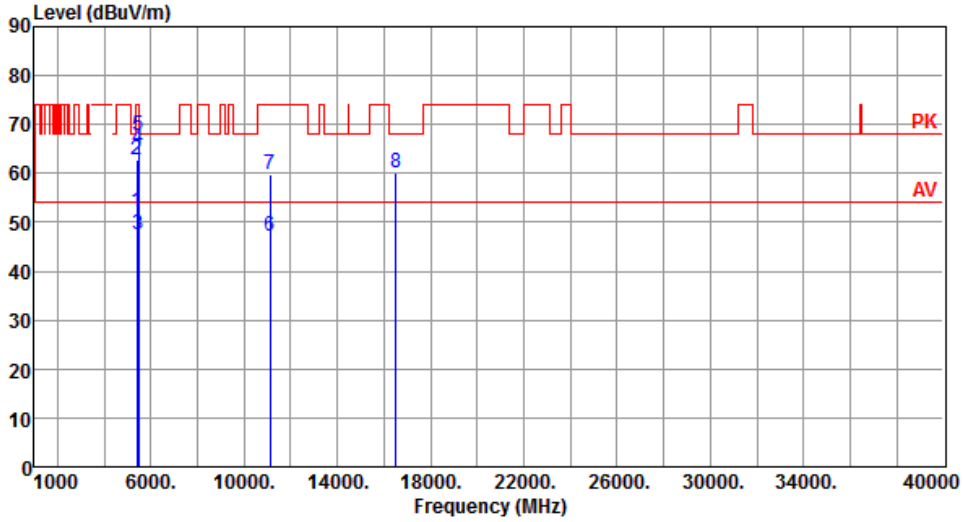
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5404.00	49.80	54.00	-4.20	42.69	7.11	Average	259	210
2	5404.00	59.36	74.00	-14.64	52.25	7.11	Peak	219	210
3	5460.00	47.37	54.00	-6.63	40.00	7.37	Average	219	210
4	5460.00	61.59	74.00	-12.41	54.22	7.37	Peak	219	210
5	5470.00	64.30	68.20	-3.90	56.88	7.42	Peak	219	210
6	11100.00	48.04	54.00	-5.96	31.26	16.78	Average	100	8
7	11100.00	59.65	74.00	-14.35	42.87	16.78	Peak	100	8
8	16500.00	61.41	68.20	-6.79	43.77	17.64	Peak	222	13

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

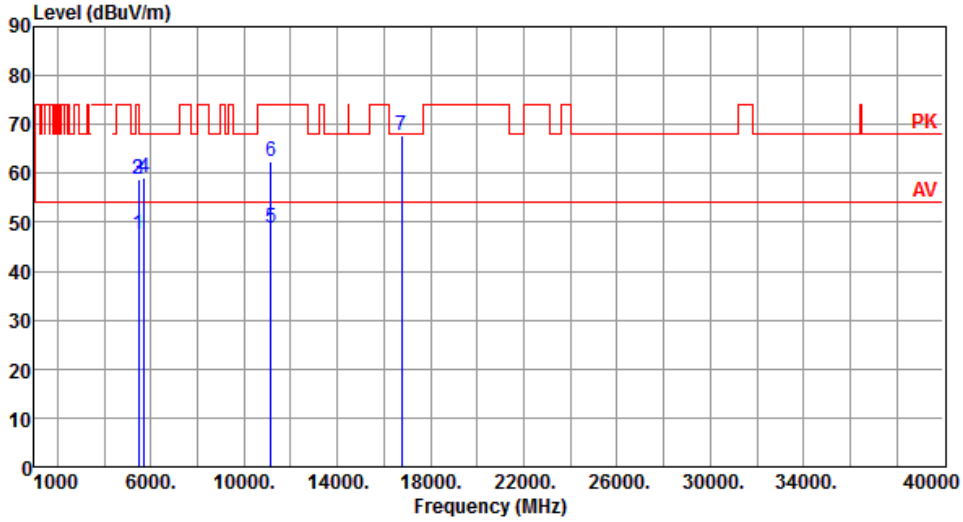
Modulation	VHT20	Test Freq. (MHz)	5500
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5404.00	52.20	54.00	-1.80	45.09	7.11	Average	100	257
2	5404.00	62.86	74.00	-11.14	55.75	7.11	Peak	100	257
3	5460.00	47.39	54.00	-6.61	40.02	7.37	Average	100	257
4	5460.00	64.98	74.00	-9.02	57.61	7.37	Peak	100	257
5	5470.00	67.75	68.20	-0.45	60.33	7.42	Peak	100	257
6	11100.00	47.31	54.00	-6.69	30.53	16.78	Average	100	8
7	11100.00	59.63	74.00	-14.37	42.85	16.78	Peak	100	8
8	16500.00	60.05	68.20	-8.15	42.41	17.64	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

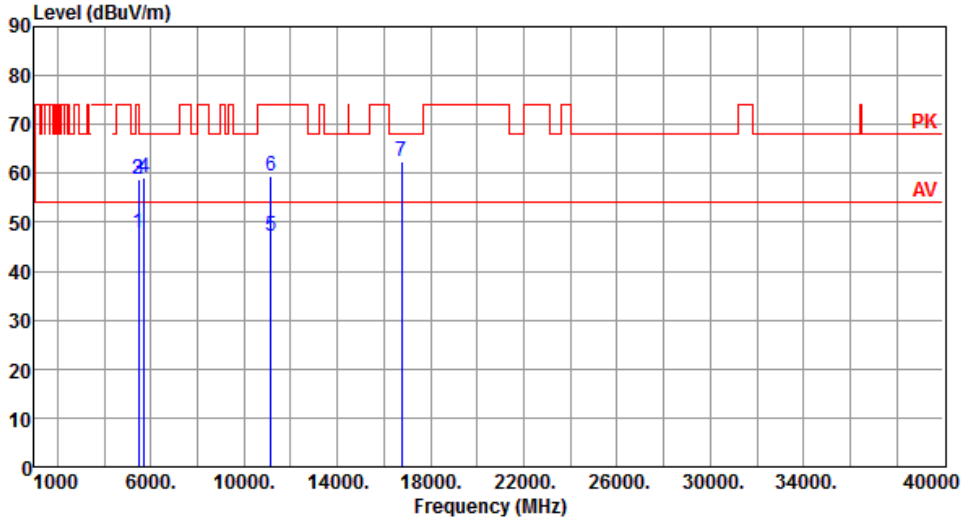
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.63	54.00	-6.37	40.26	7.37	Average	222	206
2	5460.00	58.62	74.00	-15.38	51.25	7.37	Peak	222	206
3	5470.00	58.67	68.20	-9.53	51.25	7.42	Peak	222	206
4	5725.00	59.00	68.20	-9.20	51.24	7.76	Peak	222	206
5	11160.00	48.88	54.00	-5.12	32.25	16.63	Average	200	5
6	11160.00	62.31	74.00	-11.69	45.68	16.63	Peak	200	5
7	16740.00	67.60	68.20	-0.60	49.01	18.59	Peak	184	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

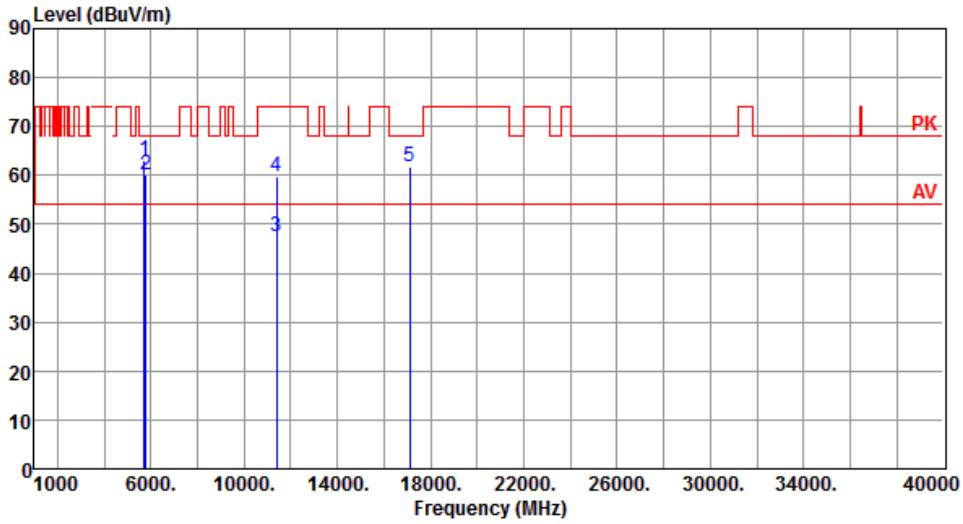
Modulation	VHT20	Test Freq. (MHz)	5580
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.89	54.00	-6.11	40.52	7.37	Average	100	259
2	5460.00	58.70	74.00	-15.30	51.33	7.37	Peak	100	259
3	5470.00	58.87	68.20	-9.33	51.45	7.42	Peak	100	259
4	5725.00	59.17	68.20	-9.03	51.41	7.76	Peak	100	259
5	11160.00	47.05	54.00	-6.95	30.42	16.63	Average	100	350
6	11160.00	59.34	74.00	-14.66	42.71	16.63	Peak	100	350
7	16740.00	62.53	68.20	-5.67	43.94	18.59	Peak	100	21

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

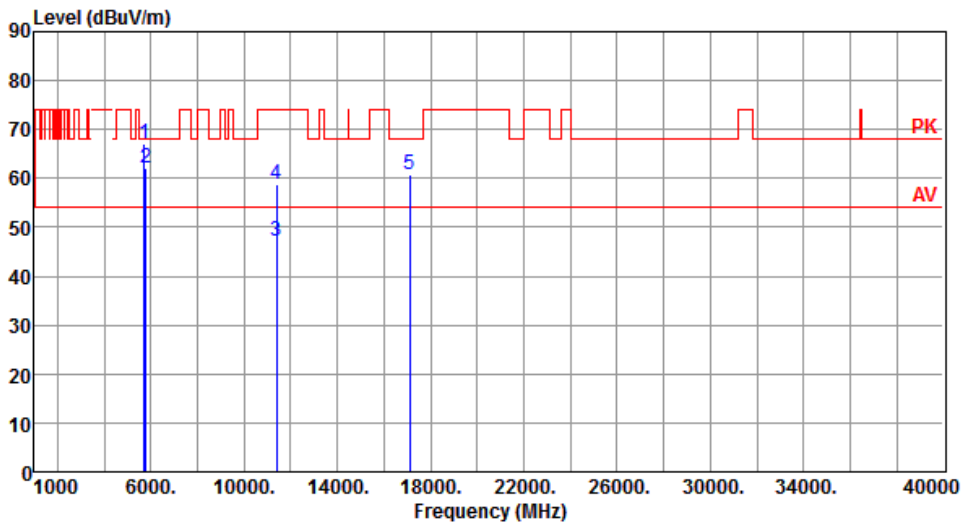
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	62.99	68.20	-5.21	55.23	7.76	Peak	244	215
2	5796.00	60.15	68.20	-8.05	52.25	7.90	Peak	244	215
3	11400.00	47.56	54.00	-6.44	30.83	16.73	Average	100	4
4	11400.00	59.61	74.00	-14.39	42.88	16.73	Peak	100	4
5	17100.00	61.75	68.20	-6.45	43.21	18.54	Peak	187	18

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

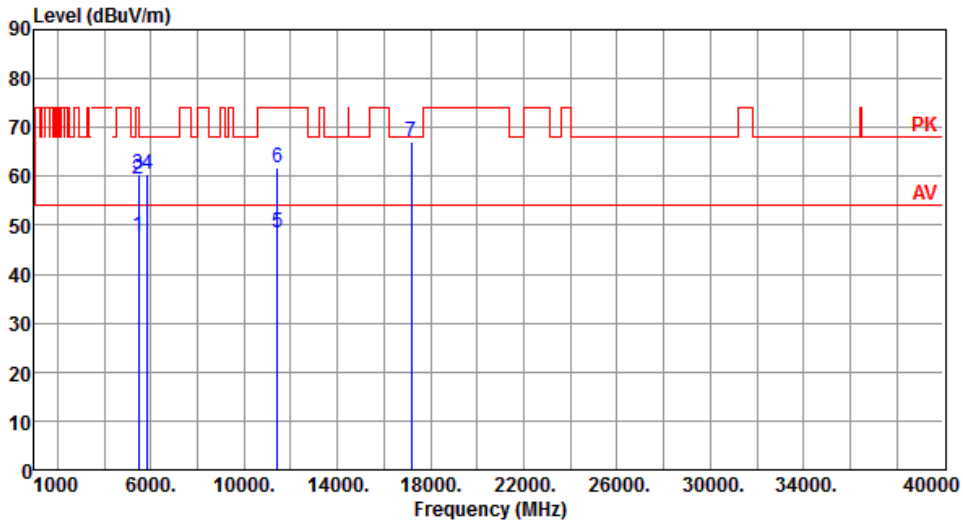
Modulation	VHT20	Test Freq. (MHz)	5700
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	67.19	68.20	-1.01	59.43	7.76	Peak	100	257
2	5796.00	62.15	68.20	-6.05	54.25	7.90	Peak	100	257
3	11400.00	47.27	54.00	-6.73	30.54	16.73	Average	100	5
4	11400.00	58.93	74.00	-15.07	42.20	16.73	Peak	100	5
5	17100.00	60.79	68.20	-7.41	42.25	18.54	Peak	100	13

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

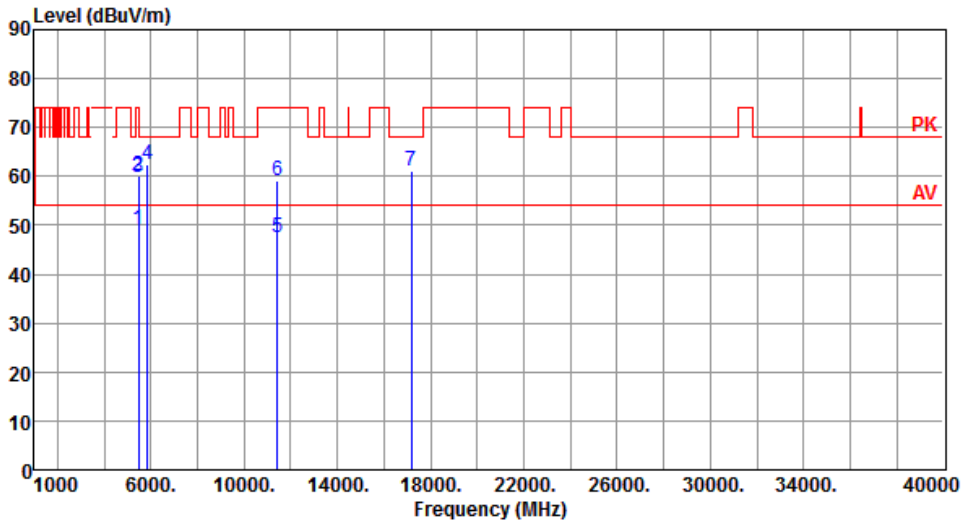
Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.92	54.00	-6.08	40.55	7.37	Average	222	201
2	5460.00	59.58	74.00	-14.42	52.21	7.37	Peak	222	201
3	5470.00	60.41	68.20	-7.79	52.99	7.42	Peak	222	201
4	5850.00	60.45	68.20	-7.75	52.33	8.12	Peak	222	201
5	11440.00	48.54	54.00	-5.46	31.76	16.78	Average	196	4
6	11440.00	61.93	74.00	-12.07	45.15	16.78	Peak	196	4
7	17160.00	67.04	68.20	-1.16	48.54	18.50	Peak	183	21

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

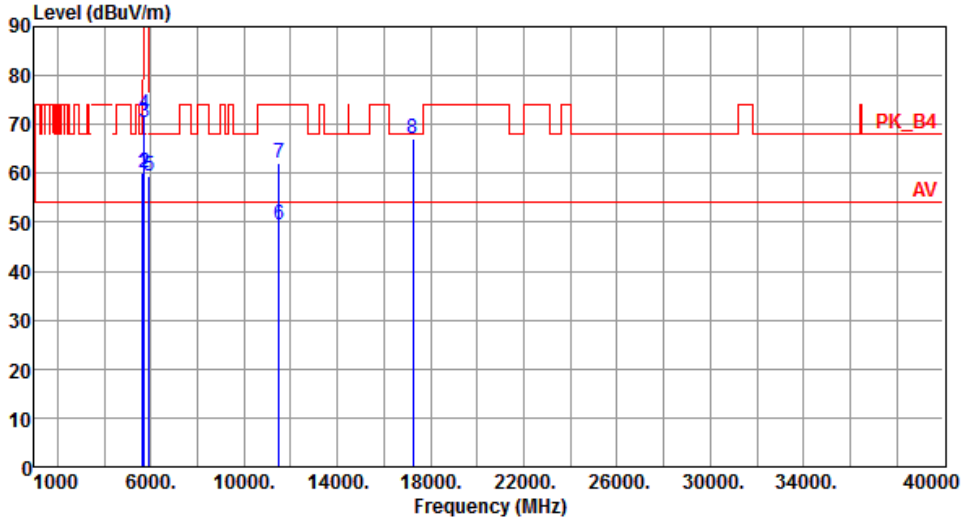
Modulation	VHT20	Test Freq. (MHz)	5720
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.25	54.00	-4.75	41.88	7.37	Average	100	263
2	5460.00	60.25	74.00	-13.75	52.88	7.37	Peak	100	263
3	5470.00	59.82	68.20	-8.38	52.40	7.42	Peak	100	263
4	5850.00	62.38	68.20	-5.82	54.26	8.12	Peak	100	263
5	11440.00	47.36	54.00	-6.64	30.58	16.78	Average	100	9
6	11440.00	59.10	74.00	-14.90	42.32	16.78	Peak	100	9
7	17160.00	60.99	68.20	-7.21	42.49	18.50	Peak	100	13

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

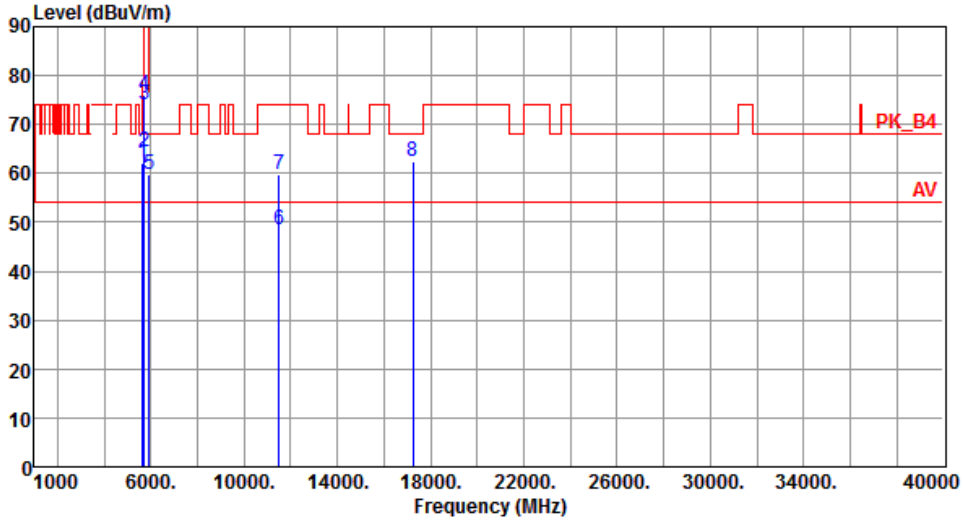
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.99	68.20	-8.21	52.60	7.39	Peak	242	302
2	5700.00	59.95	105.20	-45.25	52.25	7.70	Peak	242	302
3	5720.00	70.26	110.80	-40.54	62.52	7.74	Peak	242	302
4	5725.00	72.00	122.20	-50.20	64.24	7.76	Peak	242	302
5	5925.00	59.48	68.20	-8.72	51.21	8.27	Peak	242	302
6	11490.00	49.38	54.00	-4.62	32.53	16.85	Average	198	43
7	11490.00	62.00	74.00	-12.00	45.15	16.85	Peak	198	43
8	17235.00	66.93	68.20	-1.27	48.32	18.61	Peak	186	22

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

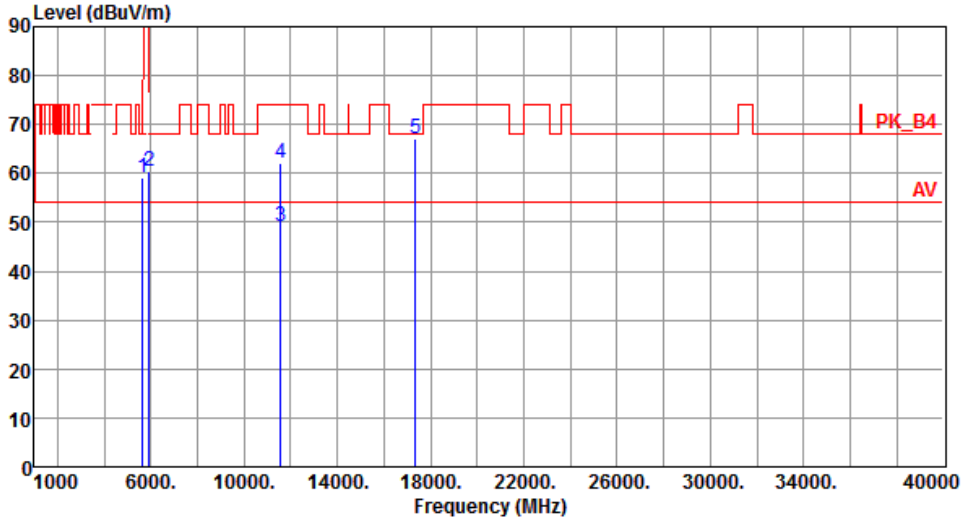
Modulation	VHT20	Test Freq. (MHz)	5745
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	62.06	68.20	-6.14	54.67	7.39	Peak	100	248
2	5700.00	64.55	105.20	-40.65	56.85	7.70	Peak	100	248
3	5720.00	74.17	110.80	-36.63	66.43	7.74	Peak	100	248
4	5725.00	76.18	122.20	-46.02	68.42	7.76	Peak	100	248
5	5925.00	59.94	68.20	-8.26	51.67	8.27	Peak	100	248
6	11490.00	48.38	54.00	-5.62	31.53	16.85	Average	100	8
7	11490.00	59.70	74.00	-14.30	42.85	16.85	Peak	100	8
8	17235.00	62.45	68.20	-5.75	43.84	18.61	Peak	100	11

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

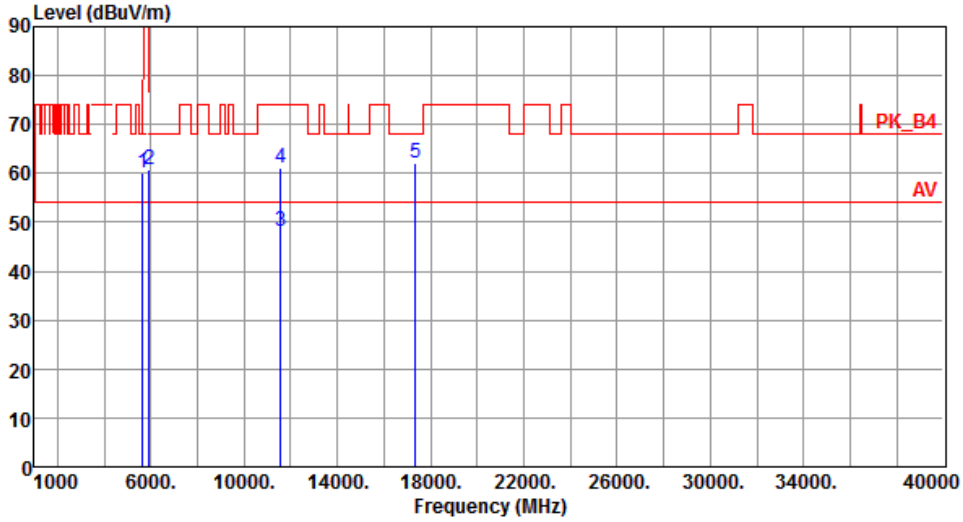
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.24	68.20	-8.96	51.85	7.39	Peak	239	305
2	5925.00	60.33	68.20	-7.87	52.06	8.27	Peak	239	305
3	11570.00	49.23	54.00	-4.77	32.52	16.71	Average	189	45
4	11570.00	62.25	74.00	-11.75	45.54	16.71	Peak	189	45
5	17355.00	67.07	68.20	-1.13	47.83	19.24	Peak	186	18

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

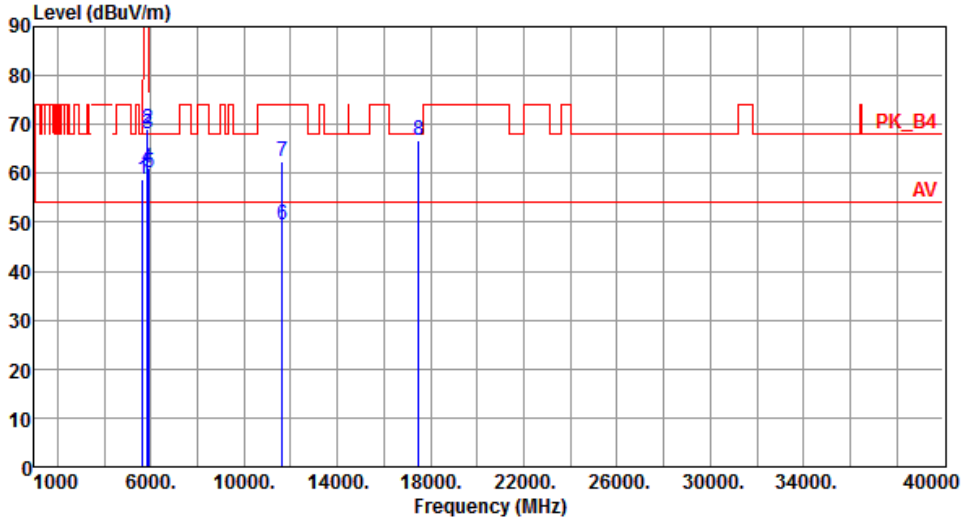
Modulation	VHT20	Test Freq. (MHz)	5785
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	60.13	68.20	-8.07	52.74	7.39	Peak	100	271
2	5925.00	60.90	68.20	-7.30	52.63	8.27	Peak	100	271
3	11570.00	48.23	54.00	-5.77	31.52	16.71	Average	100	4
4	11570.00	61.00	74.00	-13.00	44.29	16.71	Peak	100	4
5	17355.00	62.08	68.20	-6.12	42.84	19.24	Peak	100	19

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

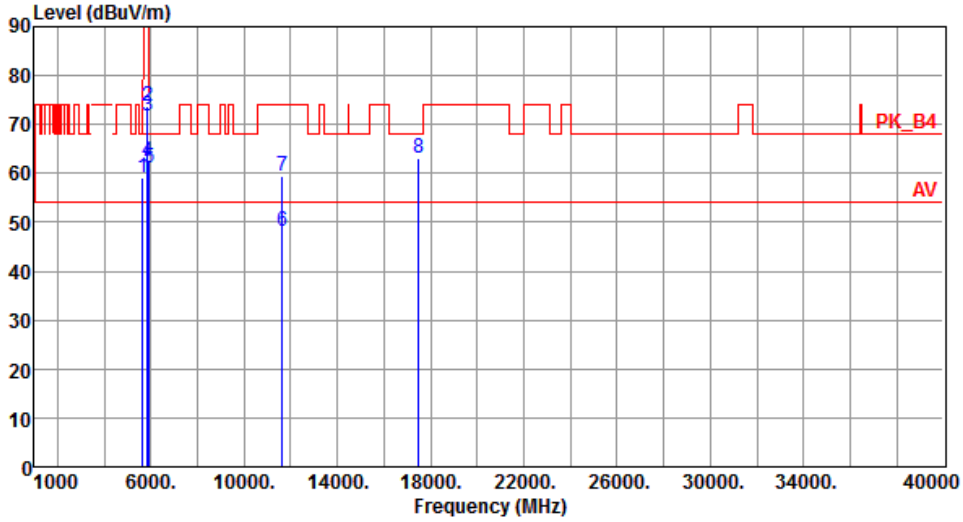
Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	58.81	68.20	-9.39	51.42	7.39	Peak	266	301
2	5850.00	69.23	122.20	-52.97	61.11	8.12	Peak	266	301
3	5855.00	68.01	110.80	-42.79	59.88	8.13	Peak	266	301
4	5875.00	61.05	105.20	-44.15	52.87	8.18	Peak	266	301
5	5925.00	60.17	68.20	-8.03	51.90	8.27	Peak	266	301
6	11650.00	49.50	54.00	-4.50	33.02	16.48	Average	188	46
7	11650.00	62.33	74.00	-11.67	45.85	16.48	Peak	188	46
8	17475.00	66.85	68.20	-1.35	47.01	19.84	Peak	176	19

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT20	Test Freq. (MHz)	5825
Polarization	Vertical		

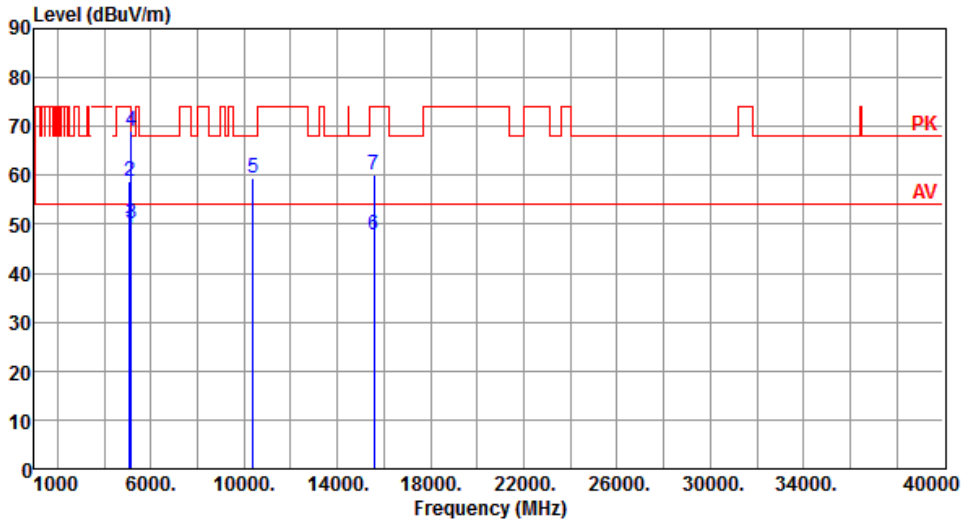


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	58.97	68.20	-9.23	51.58	7.39	Peak	100	244
2	5850.00	73.64	122.20	-48.56	65.52	8.12	Peak	100	244
3	5855.00	71.79	110.80	-39.01	63.66	8.13	Peak	100	244
4	5875.00	62.49	105.20	-42.71	54.31	8.18	Peak	100	244
5	5925.00	61.23	68.20	-6.97	52.96	8.27	Peak	100	244
6	11650.00	48.32	54.00	-5.68	31.84	16.48	Average	100	5
7	11650.00	59.32	74.00	-14.68	42.84	16.48	Peak	100	5
8	17475.00	63.08	68.20	-5.12	43.24	19.84	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT40

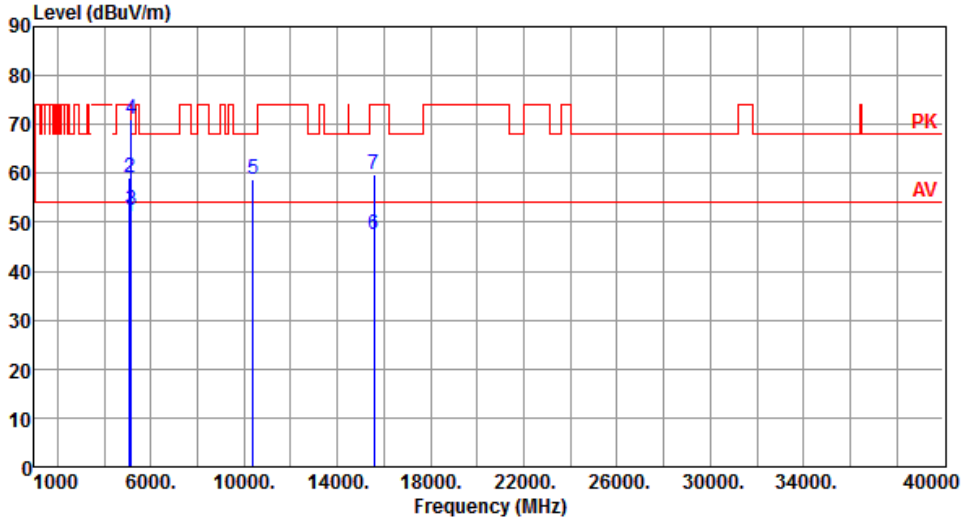
Modulation	VHT40	**Test Freq. (MHz)**	5190
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5094.00	49.12	54.00	-4.88	41.84	7.28	Average	242	206
2	5094.00	58.79	74.00	-15.21	51.51	7.28	Peak	242	206
3	5150.00	50.29	54.00	-3.71	42.87	7.42	Average	242	206
4	5150.00	68.93	74.00	-5.07	61.51	7.42	Peak	242	206
5	10380.00	59.33	68.20	-8.87	42.87	16.46	Peak	100	5
6	15570.00	47.92	54.00	-6.08	30.57	17.35	Average	100	9
7	15570.00	60.19	74.00	-13.81	42.84	17.35	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

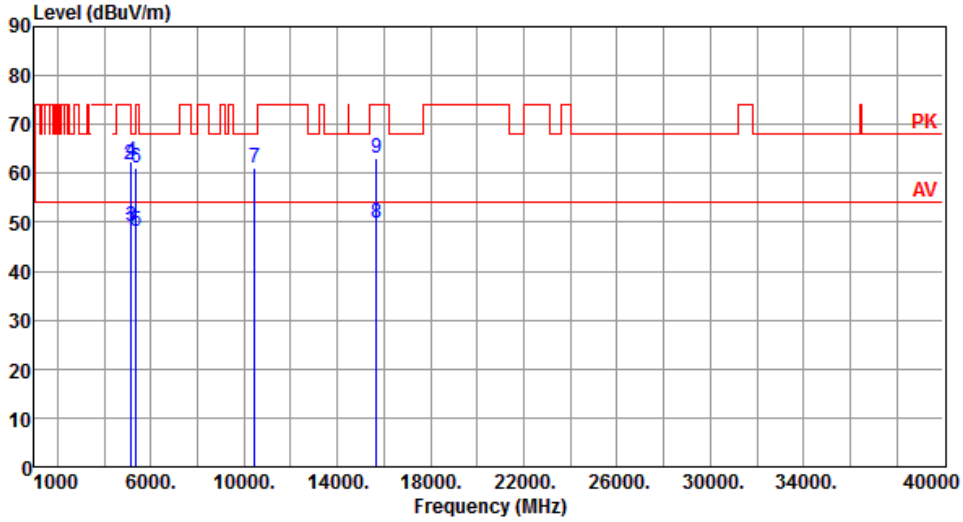
Modulation	VHT40	Test Freq. (MHz)	5190
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5094.00	51.21	54.00	-2.79	43.93	7.28	Average	100	263
2	5094.00	59.09	74.00	-14.91	51.81	7.28	Peak	100	263
3	5150.00	52.38	54.00	-1.62	44.96	7.42	Average	100	263
4	5150.00	71.00	74.00	-3.00	63.58	7.42	Peak	100	263
5	10380.00	58.79	68.20	-9.41	42.33	16.46	Peak	100	8
6	15570.00	47.61	54.00	-6.39	30.26	17.35	Average	100	5
7	15570.00	59.72	74.00	-14.28	42.37	17.35	Peak	100	5

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

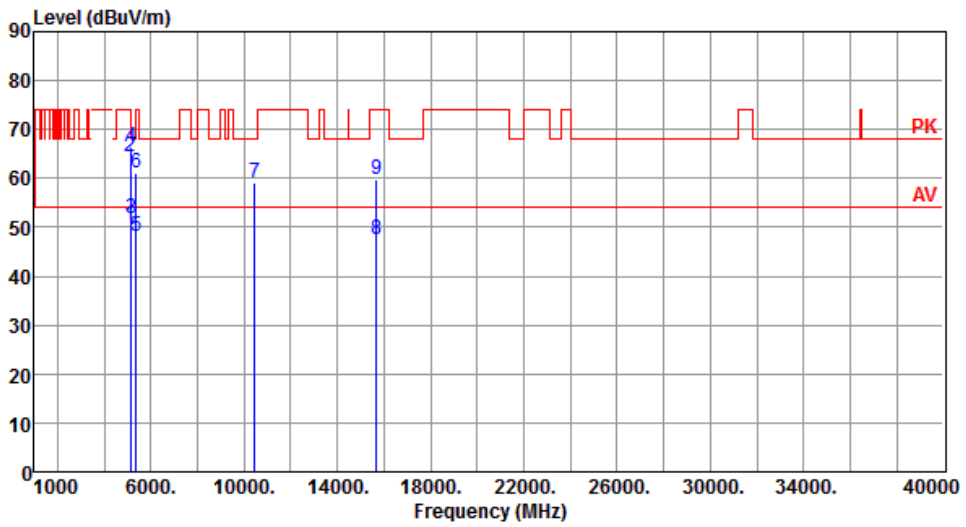
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5134.00	48.59	54.00	-5.41	41.21	7.38	Average	208	204
2	5134.00	61.63	74.00	-12.37	54.25	7.38	Peak	208	204
3	5150.00	49.10	54.00	-4.90	41.68	7.42	Average	208	204
4	5150.00	62.29	74.00	-11.71	54.87	7.42	Peak	208	204
5	5350.00	48.07	54.00	-5.93	41.22	6.85	Average	208	204
6	5350.00	61.02	74.00	-12.98	54.17	6.85	Peak	208	204
7	10460.00	61.14	68.20	-7.06	44.59	16.55	Peak	100	4
8	15690.00	49.98	54.00	-4.02	32.85	17.13	Average	186	337
9	15690.00	63.02	74.00	-10.98	45.89	17.13	Peak	186	337

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

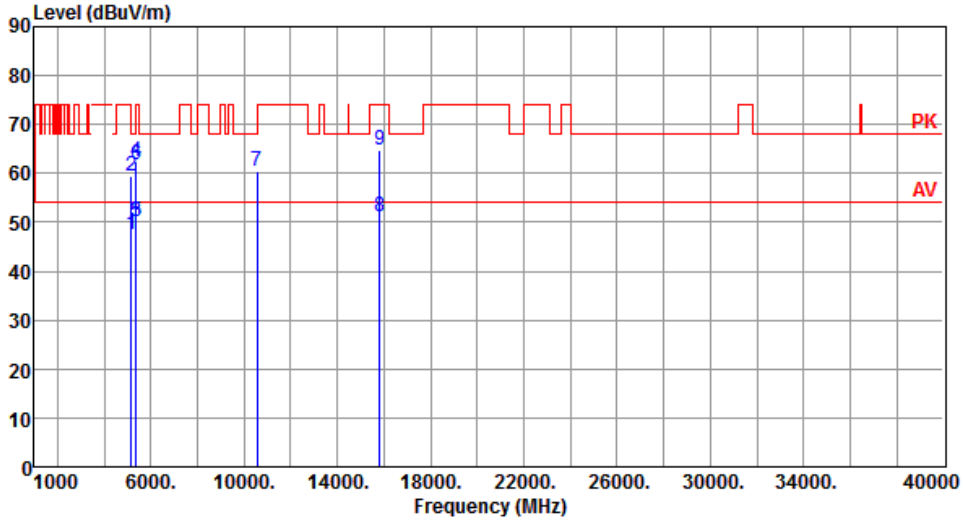
Modulation	VHT40	Test Freq. (MHz)	5230
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5134.00	50.45	54.00	-3.55	43.07	7.38	Average	100	258
2	5134.00	64.53	74.00	-9.47	57.15	7.38	Peak	100	258
3	5150.00	51.88	54.00	-2.12	44.46	7.42	Average	100	258
4	5150.00	66.26	74.00	-7.74	58.84	7.42	Peak	100	258
5	5350.00	48.13	54.00	-5.87	41.28	6.85	Average	100	258
6	5350.00	61.17	74.00	-12.83	54.32	6.85	Peak	100	258
7	10460.00	59.06	68.20	-9.14	42.51	16.55	Peak	100	4
8	15690.00	47.38	54.00	-6.62	30.25	17.13	Average	100	8
9	15690.00	59.63	74.00	-14.37	42.50	17.13	Peak	100	8

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

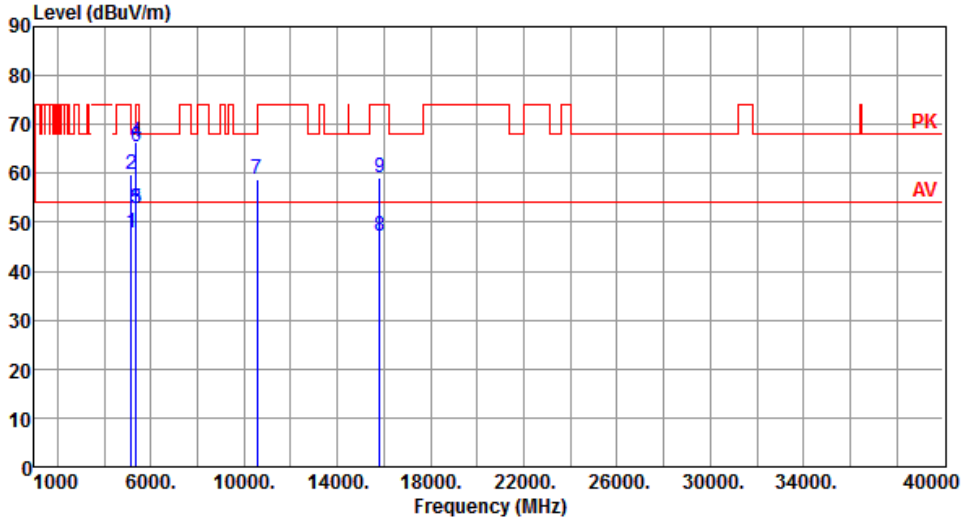
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.52	54.00	-6.48	40.10	7.42	Average	207	206
2	5150.00	59.56	74.00	-14.44	52.14	7.42	Peak	207	206
3	5350.00	50.02	54.00	-3.98	43.17	6.85	Average	207	206
4	5350.00	62.37	74.00	-11.63	55.52	6.85	Peak	207	206
5	5366.00	50.14	54.00	-3.86	43.22	6.92	Average	207	206
6	5366.00	61.78	74.00	-12.22	54.86	6.92	Peak	207	206
7	10540.00	60.47	68.20	-7.73	43.88	16.59	Peak	100	5
8	15810.00	51.00	54.00	-3.00	34.35	16.65	Average	186	357
9	15810.00	64.90	74.00	-9.10	48.25	16.65	Peak	186	357

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

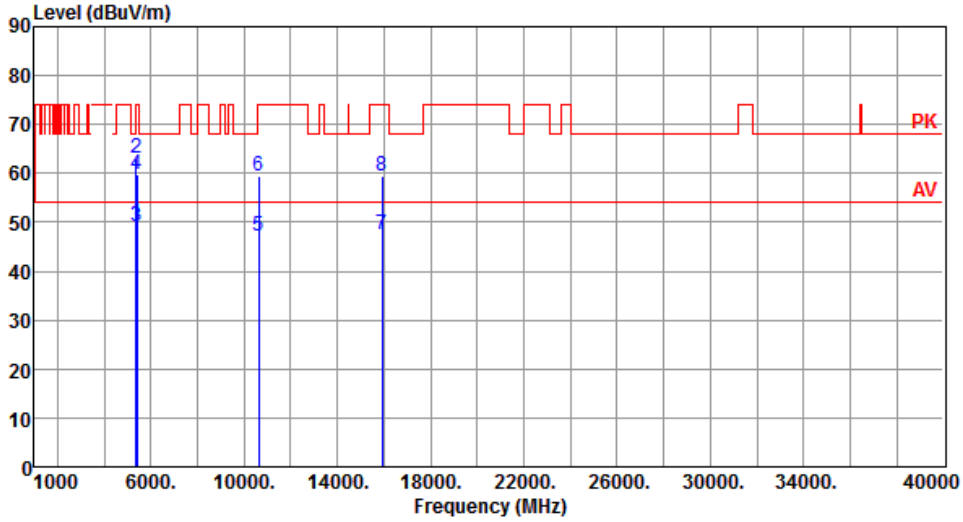
Modulation	VHT40	Test Freq. (MHz)	5270
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	47.68	54.00	-6.32	40.26	7.42	Average	100	256
2	5150.00	59.85	74.00	-14.15	52.43	7.42	Peak	100	256
3	5350.00	52.75	54.00	-1.25	45.90	6.85	Average	100	256
4	5350.00	66.27	74.00	-7.73	59.42	6.85	Peak	100	256
5	5366.00	52.67	54.00	-1.33	45.75	6.92	Average	100	256
6	5366.00	65.40	74.00	-8.60	58.48	6.92	Peak	100	256
7	10540.00	58.69	68.20	-9.51	42.10	16.59	Peak	100	2
8	15810.00	47.03	54.00	-6.97	30.38	16.65	Average	100	9
9	15810.00	58.95	74.00	-15.05	42.30	16.65	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

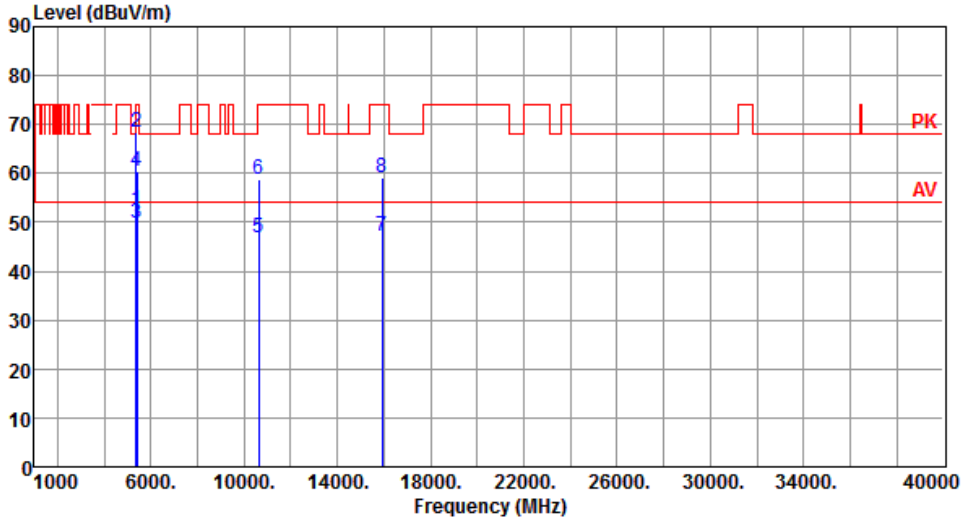
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	49.69	54.00	-4.31	42.84	6.85	Average	241	204
2	5350.00	63.10	74.00	-10.90	56.25	6.85	Peak	241	204
3	5406.00	49.26	54.00	-4.74	42.15	7.11	Average	241	204
4	5406.00	59.70	74.00	-14.30	52.59	7.11	Peak	241	204
5	10620.00	47.20	54.00	-6.80	30.55	16.65	Average	100	1
6	10620.00	59.39	74.00	-14.61	42.74	16.65	Peak	100	1
7	15930.00	47.44	54.00	-6.56	30.74	16.70	Average	100	8
8	15930.00	59.58	74.00	-14.42	42.88	16.70	Peak	100	8

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

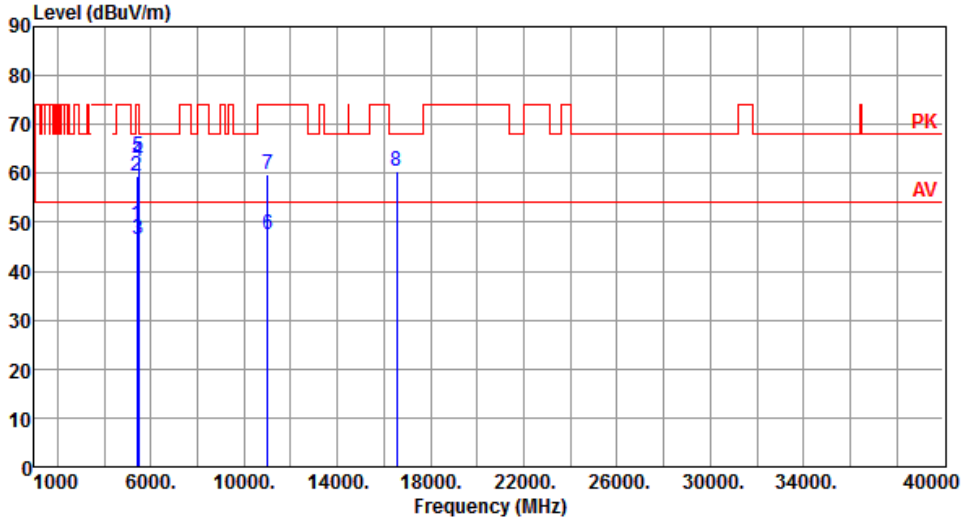
Modulation	VHT40	Test Freq. (MHz)	5310
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5350.00	52.56	54.00	-1.44	45.71	6.85	Average	100	268
2	5350.00	68.49	74.00	-5.51	61.64	6.85	Peak	100	268
3	5406.00	49.94	54.00	-4.06	42.83	7.11	Average	100	268
4	5406.00	60.46	74.00	-13.54	53.35	7.11	Peak	100	268
5	10620.00	46.87	54.00	-7.13	30.22	16.65	Average	100	6
6	10620.00	58.89	74.00	-15.11	42.24	16.65	Peak	100	6
7	15930.00	47.10	54.00	-6.90	30.40	16.70	Average	100	2
8	15930.00	59.20	74.00	-14.80	42.50	16.70	Peak	100	2

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

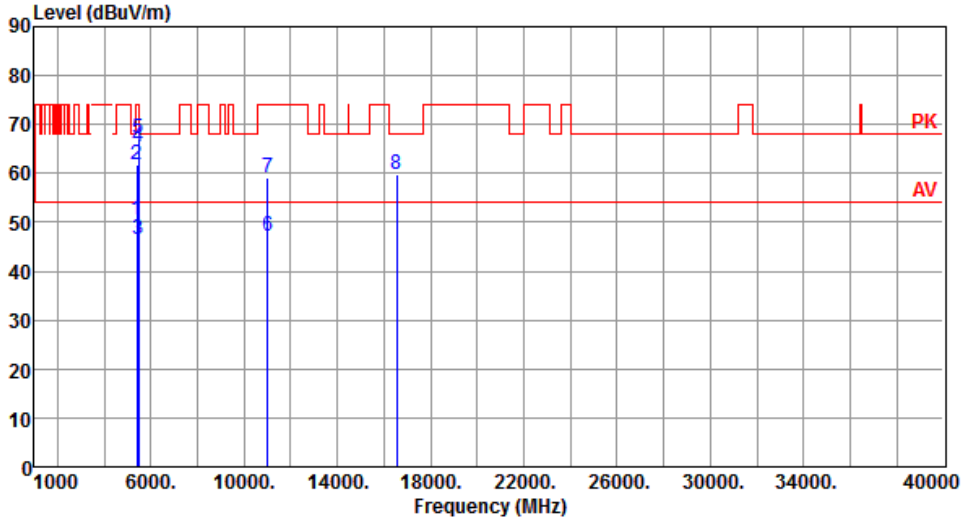
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5414.00	49.41	54.00	-4.59	42.25	7.16	Average	245	206
2	5414.00	59.41	74.00	-14.59	52.25	7.16	Peak	245	206
3	5460.00	46.37	54.00	-7.63	39.00	7.37	Average	245	206
4	5460.00	62.37	74.00	-11.63	55.00	7.37	Peak	245	206
5	5470.00	63.27	68.20	-4.93	55.85	7.42	Peak	245	206
6	11020.00	47.42	54.00	-6.58	30.51	16.91	Average	100	6
7	11020.00	59.71	74.00	-14.29	42.80	16.91	Peak	100	6
8	16530.00	60.45	68.20	-7.75	42.74	17.71	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

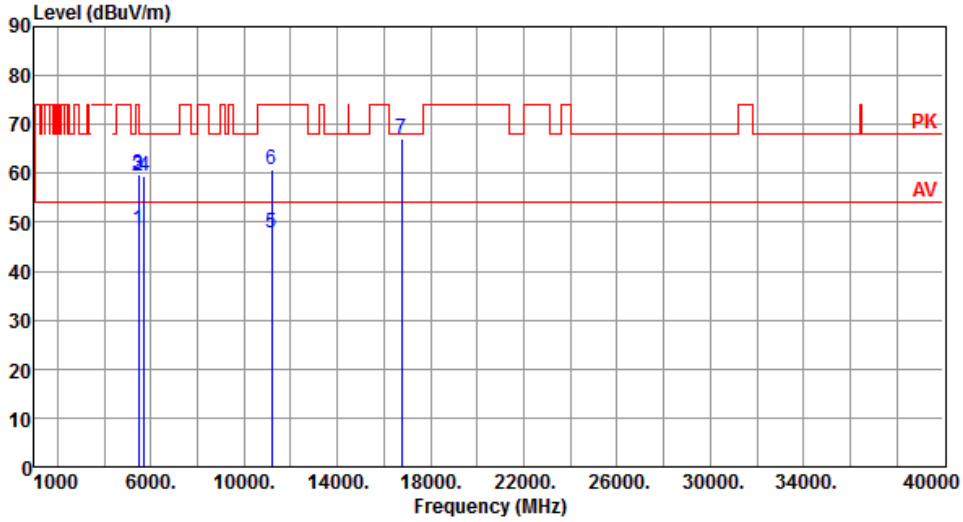
Modulation	VHT40	Test Freq. (MHz)	5510
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5414.00	50.57	54.00	-3.43	43.41	7.16	Average	100	257
2	5414.00	61.68	74.00	-12.32	54.52	7.16	Peak	100	257
3	5460.00	46.48	54.00	-7.52	39.11	7.37	Average	100	257
4	5460.00	65.57	74.00	-8.43	58.20	7.37	Peak	100	257
5	5470.00	67.16	68.20	-1.04	59.74	7.42	Peak	100	257
6	11020.00	47.16	54.00	-6.84	30.25	16.91	Average	100	2
7	11020.00	59.21	74.00	-14.79	42.30	16.91	Peak	100	2
8	16530.00	59.88	68.20	-8.32	42.17	17.71	Peak	100	8

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

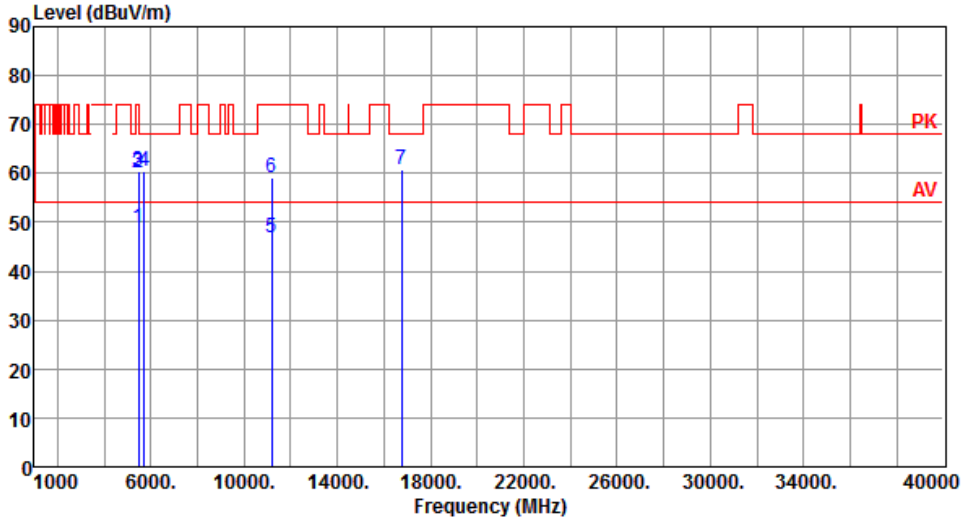
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.57	54.00	-5.43	41.20	7.37	Average	236	209
2	5460.00	59.47	74.00	-14.53	52.10	7.37	Peak	236	209
3	5470.00	59.87	68.20	-8.33	52.45	7.42	Peak	236	209
4	5725.00	59.60	68.20	-8.60	51.84	7.76	Peak	236	209
5	11180.00	47.79	54.00	-6.21	31.21	16.58	Average	196	5
6	11180.00	60.79	74.00	-13.21	44.21	16.58	Peak	196	5
7	16770.00	67.06	68.20	-1.14	48.50	18.56	Peak	185	10

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

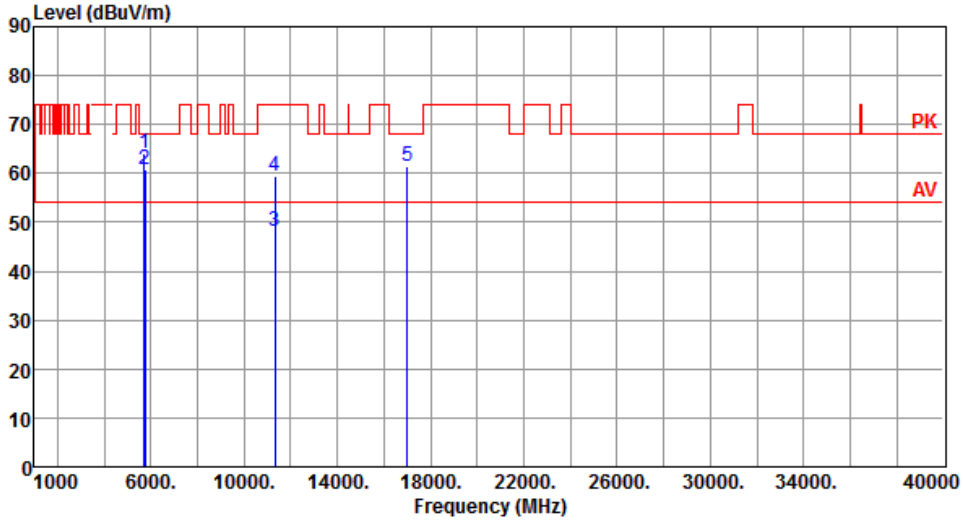
Modulation	VHT40	Test Freq. (MHz)	5590
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.89	54.00	-5.11	41.52	7.37	Average	100	249
2	5460.00	60.01	74.00	-13.99	52.64	7.37	Peak	100	249
3	5470.00	60.32	68.20	-7.88	52.90	7.42	Peak	100	249
4	5725.00	60.45	68.20	-7.75	52.69	7.76	Peak	100	249
5	11180.00	46.83	54.00	-7.17	30.25	16.58	Average	100	6
6	11180.00	59.02	74.00	-14.98	42.44	16.58	Peak	100	6
7	16770.00	60.66	68.20	-7.54	42.10	18.56	Peak	100	6

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

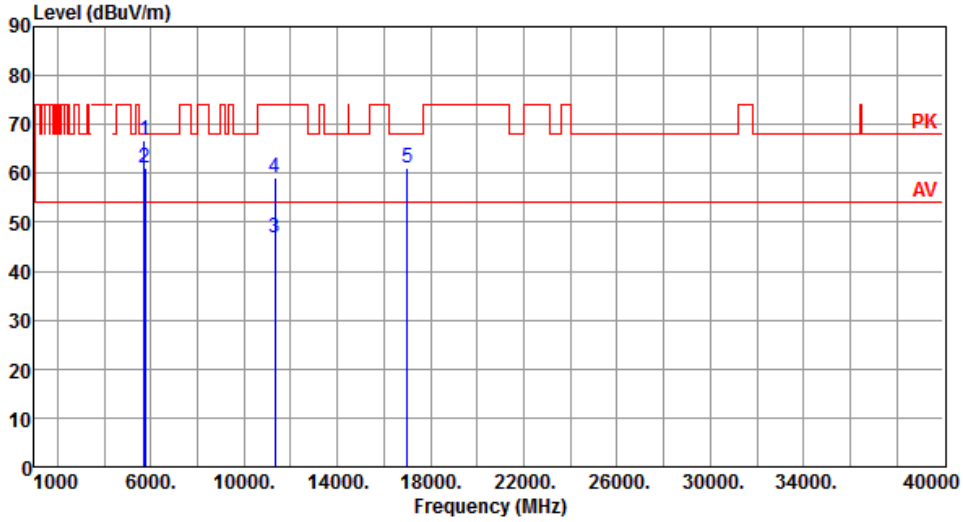
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	64.00	68.20	-4.20	56.24	7.76	Peak	227	215
2	5766.00	60.68	68.20	-7.52	52.84	7.84	Peak	227	215
3	11340.00	48.28	54.00	-5.72	31.58	16.70	Average	100	1
4	11340.00	59.58	74.00	-14.42	42.88	16.70	Peak	100	1
5	17010.00	61.47	68.20	-6.73	42.69	18.78	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

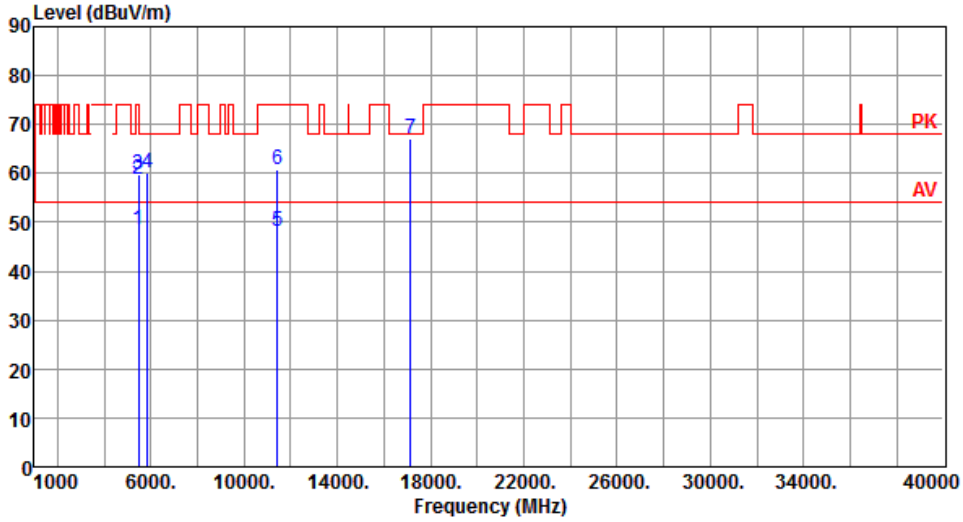
Modulation	VHT40	Test Freq. (MHz)	5670
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	66.78	68.20	-1.42	59.02	7.76	Peak	100	252
2	5766.00	61.09	68.20	-7.11	53.25	7.84	Peak	100	252
3	11340.00	46.95	54.00	-7.05	30.25	16.70	Average	100	5
4	11340.00	59.17	74.00	-14.83	42.47	16.70	Peak	100	5
5	17010.00	61.20	68.20	-7.00	42.42	18.78	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

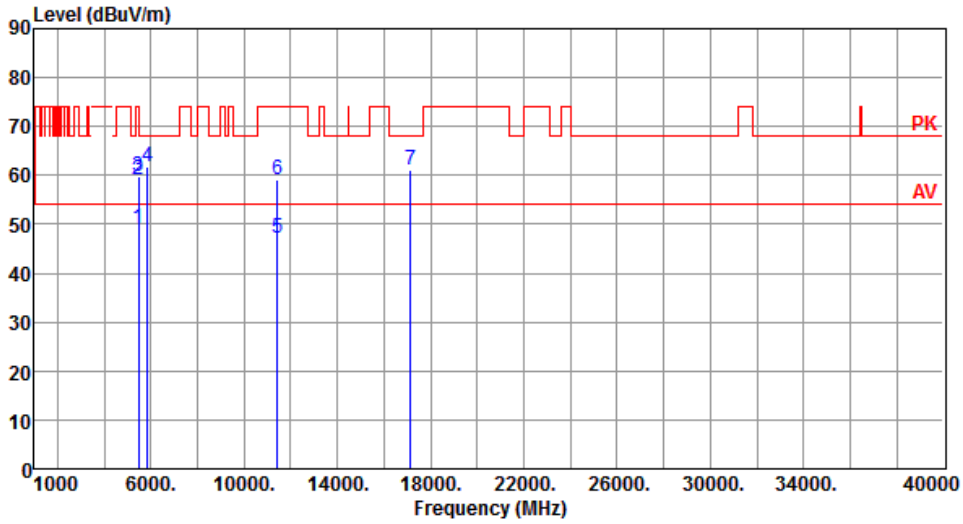
Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	48.37	54.00	-5.63	41.00	7.37	Average	257	207
2	5460.00	58.89	74.00	-15.11	51.52	7.37	Peak	257	207
3	5470.00	59.62	68.20	-8.58	52.20	7.42	Peak	257	207
4	5850.00	60.26	68.20	-7.94	52.14	8.12	Peak	257	207
5	11420.00	48.31	54.00	-5.69	31.56	16.75	Average	195	3
6	11420.00	60.88	74.00	-13.12	44.13	16.75	Peak	195	3
7	17130.00	67.04	68.20	-1.16	48.53	18.51	Peak	181	20

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

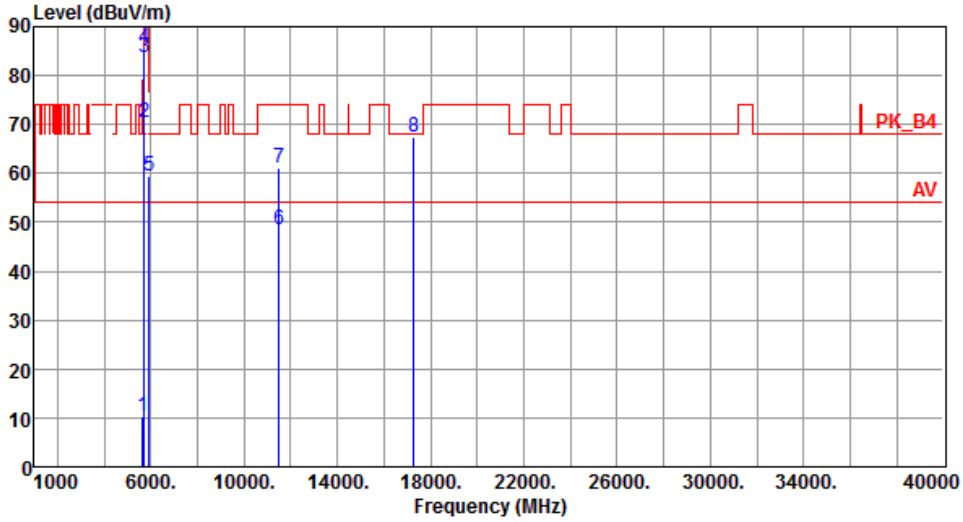
Modulation	VHT40	Test Freq. (MHz)	5710
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	49.17	54.00	-4.83	41.80	7.37	Average	100	275
2	5460.00	59.26	74.00	-14.74	51.89	7.37	Peak	100	275
3	5470.00	59.75	68.20	-8.45	52.33	7.42	Peak	100	275
4	5850.00	61.71	68.20	-6.49	53.59	8.12	Peak	100	275
5	11420.00	47.20	54.00	-6.80	30.45	16.75	Average	100	4
6	11420.00	59.00	74.00	-15.00	42.25	16.75	Peak	100	4
7	17130.00	61.11	68.20	-7.09	42.60	18.51	Peak	100	8

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

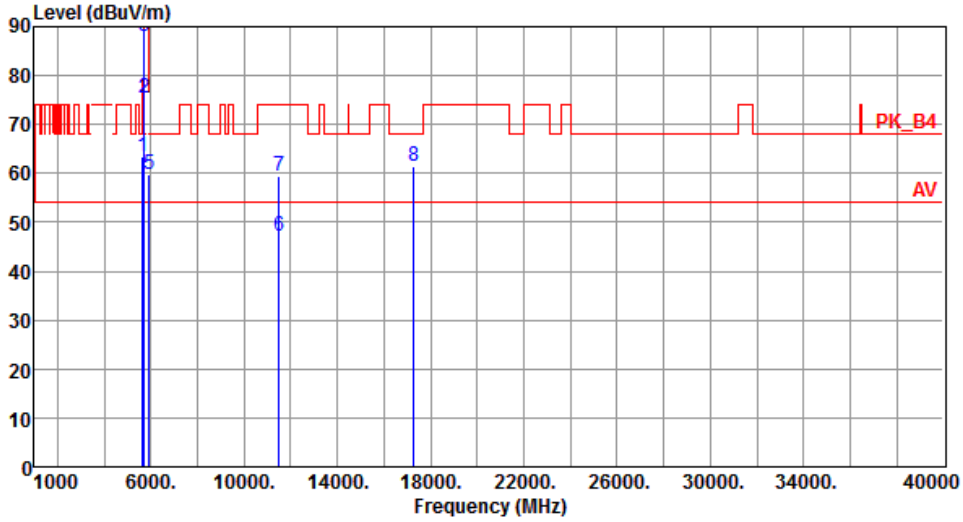
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	10.23	68.20	-57.97	2.84	7.39	Peak	252	203
2	5700.00	70.55	105.20	-34.65	62.85	7.70	Peak	252	203
3	5720.00	83.74	110.80	-27.06	76.00	7.74	Peak	252	203
4	5725.00	85.60	122.20	-36.60	77.84	7.76	Peak	252	203
5	5925.00	59.53	68.20	-8.67	51.26	8.27	Peak	252	203
6	11510.00	48.50	54.00	-5.50	31.65	16.85	Average	195	52
7	11510.00	61.21	74.00	-12.79	44.36	16.85	Peak	195	52
8	17265.00	67.30	68.20	-0.90	48.56	18.74	Peak	181	26

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

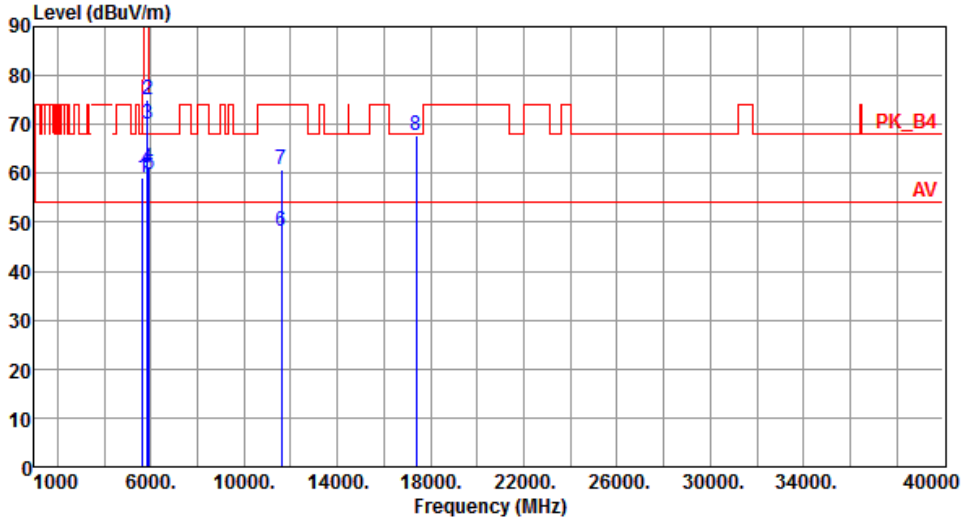
Modulation	VHT40	Test Freq. (MHz)	5755
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	63.51	68.20	-4.69	56.12	7.39	Peak	100	256
2	5700.00	75.26	105.20	-29.94	67.56	7.70	Peak	100	256
3	5720.00	87.95	110.80	-22.85	80.21	7.74	Peak	100	256
4	5725.00	89.64	122.20	-32.56	81.88	7.76	Peak	100	256
5	5925.00	59.78	68.20	-8.42	51.51	8.27	Peak	100	256
6	11510.00	47.10	54.00	-6.90	30.25	16.85	Average	100	7
7	11510.00	59.35	74.00	-14.65	42.50	16.85	Peak	100	7
8	17265.00	61.58	68.20	-6.62	42.84	18.74	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

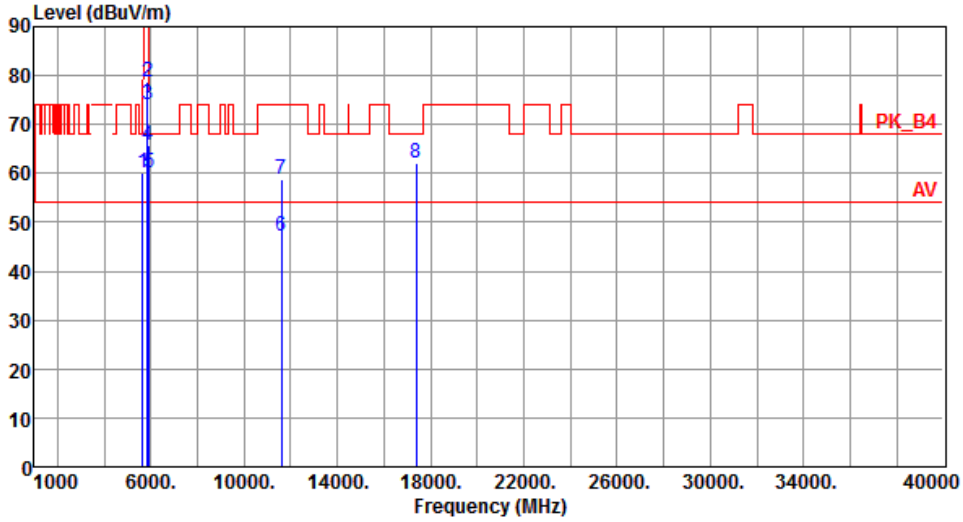
Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	59.24	68.20	-8.96	51.85	7.39	Peak	207	203
2	5850.00	74.97	122.20	-47.23	66.85	8.12	Peak	207	203
3	5855.00	69.95	110.80	-40.85	61.82	8.13	Peak	207	203
4	5875.00	61.01	105.20	-44.19	52.83	8.18	Peak	207	203
5	5925.00	59.80	68.20	-8.40	51.53	8.27	Peak	207	203
6	11590.00	48.25	54.00	-5.75	31.58	16.67	Average	192	49
7	11590.00	60.87	74.00	-13.13	44.20	16.67	Peak	192	49
8	17385.00	67.63	68.20	-0.57	48.21	19.42	Peak	182	22

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT40	Test Freq. (MHz)	5795
Polarization	Vertical		

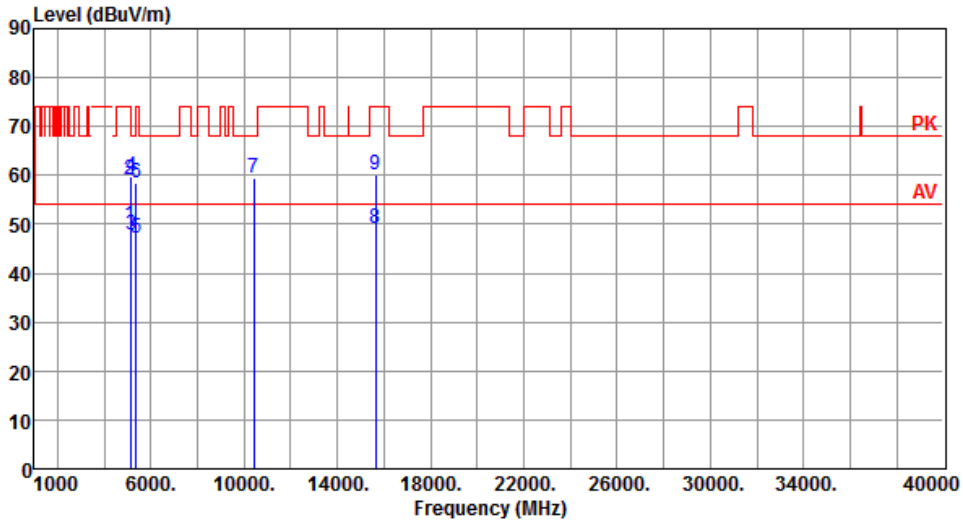


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	60.21	68.20	-7.99	52.82	7.39	Peak	100	267
2	5850.00	78.62	122.20	-43.58	70.50	8.12	Peak	100	267
3	5855.00	74.04	110.80	-36.76	65.91	8.13	Peak	100	267
4	5875.00	65.60	105.20	-39.60	57.42	8.18	Peak	100	267
5	5925.00	60.14	68.20	-8.06	51.87	8.27	Peak	100	267
6	11590.00	47.08	54.00	-6.92	30.41	16.67	Average	100	7
7	11590.00	58.91	74.00	-15.09	42.24	16.67	Peak	100	7
8	17385.00	61.94	68.20	-6.26	42.52	19.42	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for VHT80

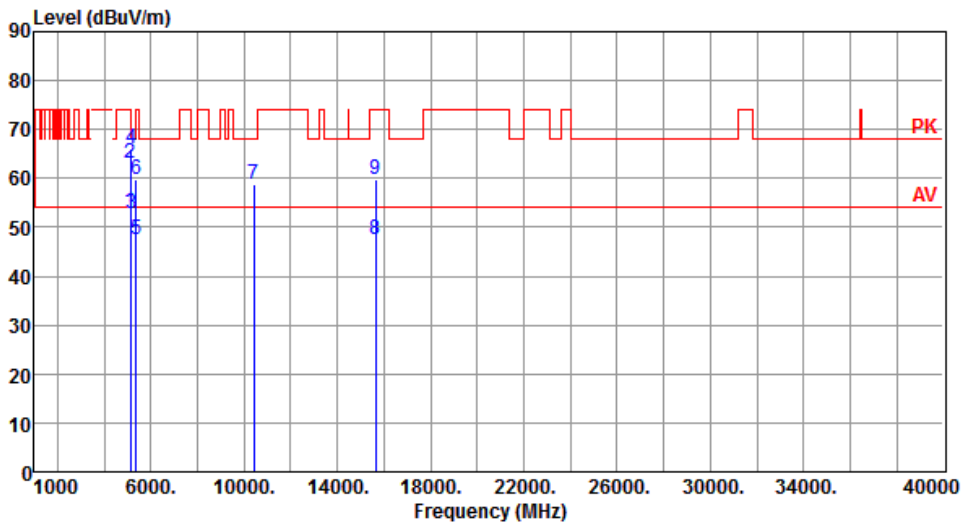
Modulation	VHT80	**Test Freq. (MHz)**	5210
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5114.00	49.70	54.00	-4.30	42.37	7.33	Average	245	206
2	5114.00	59.18	74.00	-14.82	51.85	7.33	Peak	245	206
3	5150.00	47.88	54.00	-6.12	40.46	7.42	Average	245	206
4	5150.00	59.65	74.00	-14.35	52.23	7.42	Peak	245	206
5	5350.00	47.10	54.00	-6.90	40.25	6.85	Average	245	206
6	5350.00	58.56	74.00	-15.44	51.71	6.85	Peak	245	206
7	10420.00	59.41	68.20	-8.79	42.84	16.57	Peak	100	2
8	15630.00	49.06	54.00	-4.94	31.83	17.23	Average	100	359
9	15630.00	60.06	74.00	-13.94	42.83	17.23	Peak	100	359

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

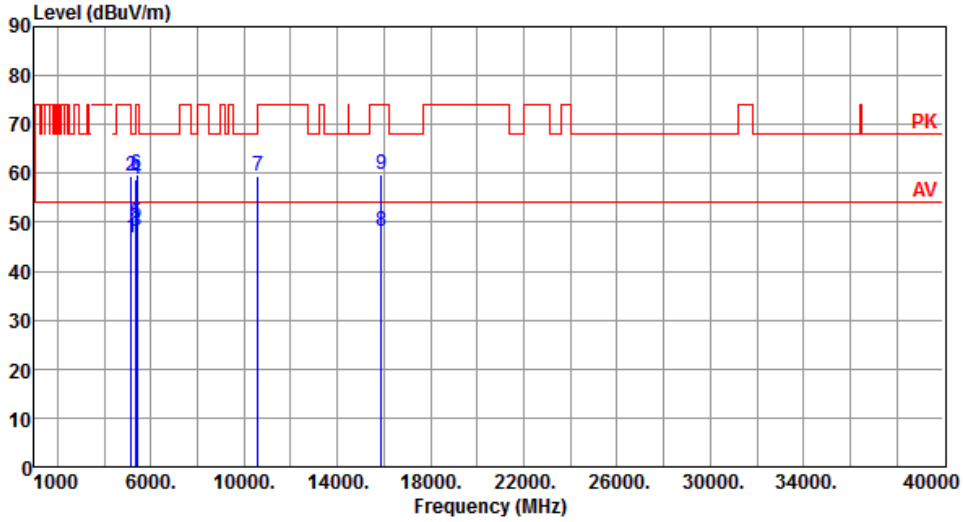
Modulation	VHT80	Test Freq. (MHz)	5210
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5114.00	53.06	54.00	-0.94	45.73	7.33	Average	100	262
2	5114.00	63.09	74.00	-10.91	55.76	7.33	Peak	100	262
3	5150.00	52.78	54.00	-1.22	45.36	7.42	Average	100	262
4	5150.00	66.21	74.00	-7.79	58.79	7.42	Peak	100	262
5	5350.00	47.63	54.00	-6.37	40.78	6.85	Average	100	262
6	5350.00	59.63	74.00	-14.37	52.78	6.85	Peak	100	262
7	10420.00	58.87	68.20	-9.33	42.30	16.57	Peak	100	8
8	15630.00	47.63	54.00	-6.37	30.40	17.23	Average	100	9
9	15630.00	59.66	74.00	-14.34	42.43	17.23	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

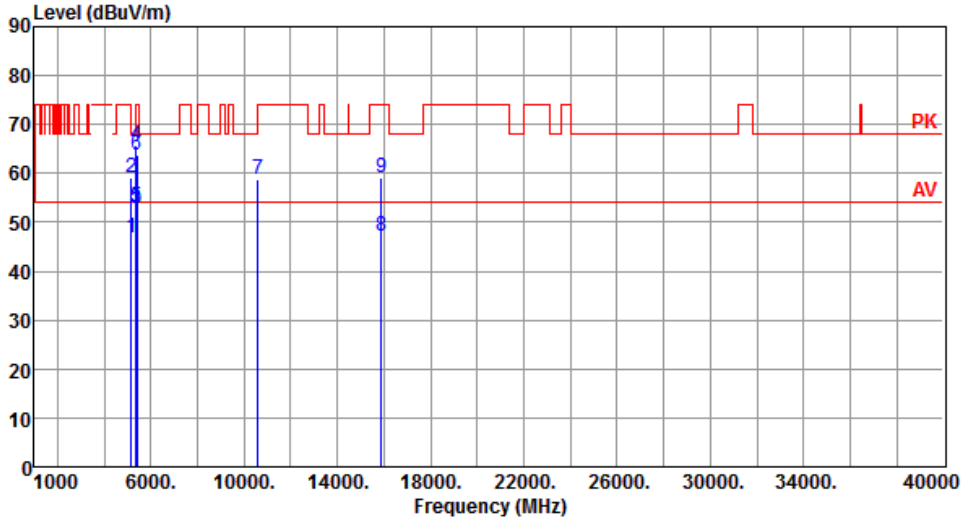
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.67	54.00	-7.33	39.25	7.42	Average	241	205
2	5150.00	59.38	74.00	-14.62	51.96	7.42	Peak	241	205
3	5350.00	48.06	54.00	-5.94	41.21	6.85	Average	241	205
4	5350.00	58.83	74.00	-15.17	51.98	6.85	Peak	241	205
5	5386.00	49.81	54.00	-4.19	42.79	7.02	Average	241	205
6	5386.00	59.80	74.00	-14.20	52.78	7.02	Peak	241	205
7	10580.00	59.44	68.20	-8.76	42.81	16.63	Peak	100	9
8	15870.00	48.20	54.00	-5.80	31.53	16.67	Average	100	1
9	15870.00	59.63	74.00	-14.37	42.96	16.67	Peak	100	1

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

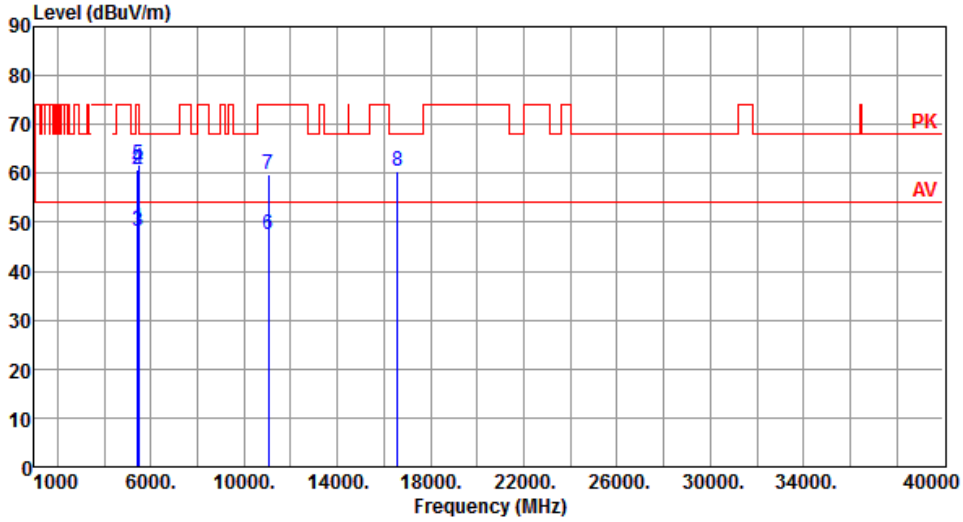
Modulation	VHT80	Test Freq. (MHz)	5290
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5150.00	46.92	54.00	-7.08	39.50	7.42	Average	100	270
2	5150.00	59.17	74.00	-14.83	51.75	7.42	Peak	100	270
3	5350.00	52.71	54.00	-1.29	45.86	6.85	Average	100	270
4	5350.00	65.71	74.00	-8.29	58.86	6.85	Peak	100	270
5	5386.00	53.26	54.00	-0.74	46.24	7.02	Average	100	270
6	5386.00	63.64	74.00	-10.36	56.62	7.02	Peak	100	270
7	10580.00	58.78	68.20	-9.42	42.15	16.63	Peak	100	2
8	15870.00	47.12	54.00	-6.88	30.45	16.67	Average	100	2
9	15870.00	59.01	74.00	-14.99	42.34	16.67	Peak	100	2

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

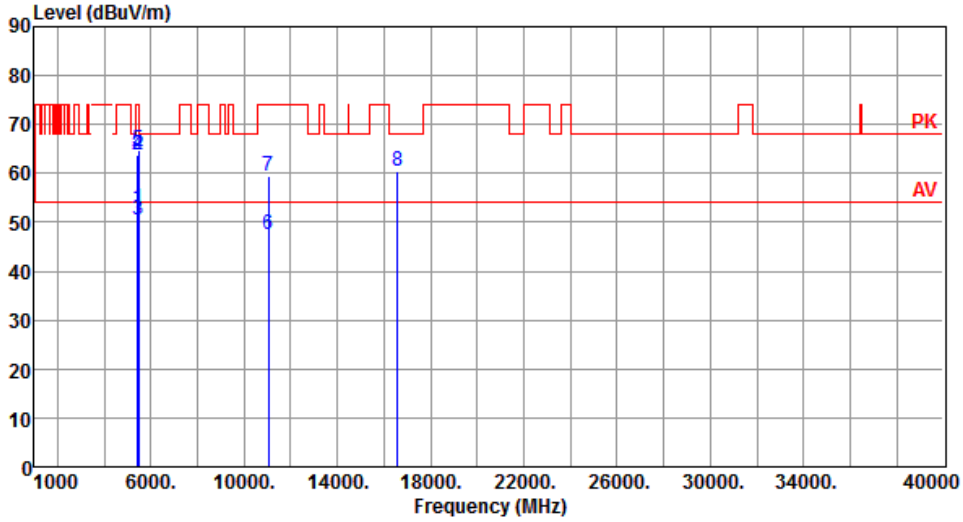
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5434.00	48.70	54.00	-5.30	41.45	7.25	Average	225	208
2	5434.00	60.83	74.00	-13.17	53.58	7.25	Peak	225	208
3	5460.00	48.22	54.00	-5.78	40.85	7.37	Average	225	208
4	5460.00	60.95	74.00	-13.05	53.58	7.37	Peak	225	208
5	5470.00	61.81	68.20	-6.39	54.39	7.42	Peak	225	208
6	11060.00	47.59	54.00	-6.41	30.74	16.85	Average	100	5
7	11060.00	59.69	74.00	-14.31	42.84	16.85	Peak	100	5
8	16590.00	60.55	68.20	-7.65	42.70	17.85	Peak	100	5

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

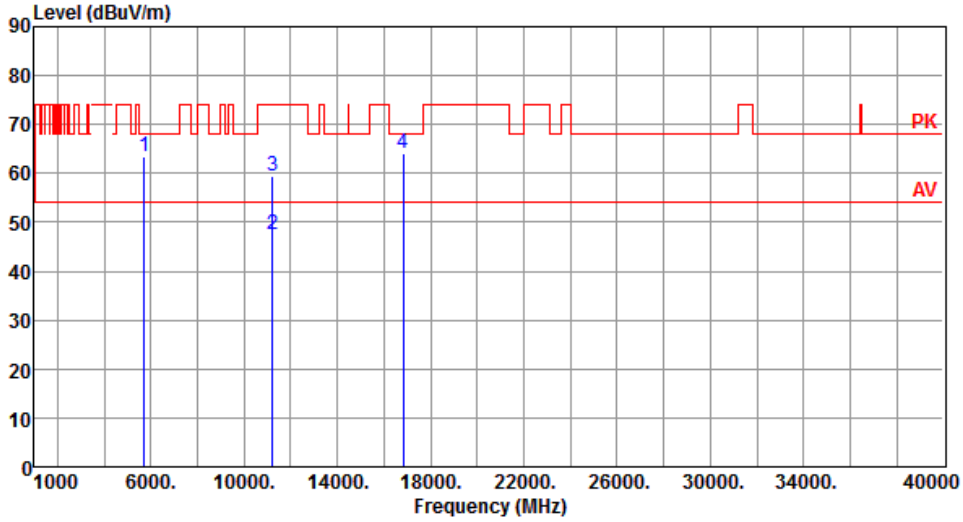
Modulation	VHT80	Test Freq. (MHz)	5530
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5434.00	52.69	54.00	-1.31	45.44	7.25	Average	100	257
2	5434.00	63.62	74.00	-10.38	56.37	7.25	Peak	100	257
3	5460.00	50.39	54.00	-3.61	43.02	7.37	Average	100	257
4	5460.00	63.72	74.00	-10.28	56.35	7.37	Peak	100	257
5	5470.00	64.75	68.20	-3.45	57.33	7.42	Peak	100	257
6	11060.00	47.33	54.00	-6.67	30.48	16.85	Average	100	7
7	11060.00	59.56	74.00	-14.44	42.71	16.85	Peak	100	7
8	16590.00	60.29	68.20	-7.91	42.44	17.85	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

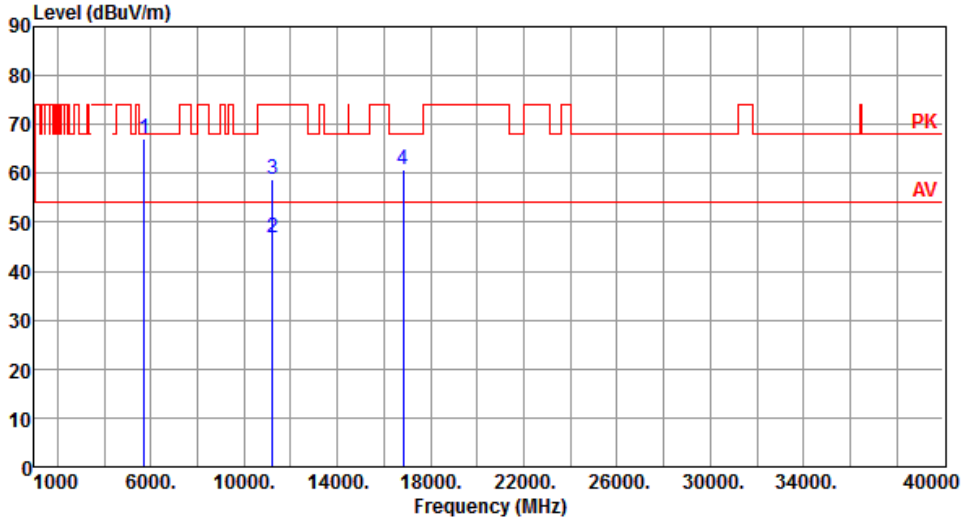
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	63.59	68.20	-4.61	55.83	7.76	Peak	228	203
2	11220.00	47.45	54.00	-6.55	30.89	16.56	Average	100	1
3	11220.00	59.40	74.00	-14.60	42.84	16.56	Peak	100	1
4	16830.00	64.01	68.20	-4.19	45.52	18.49	Peak	178	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

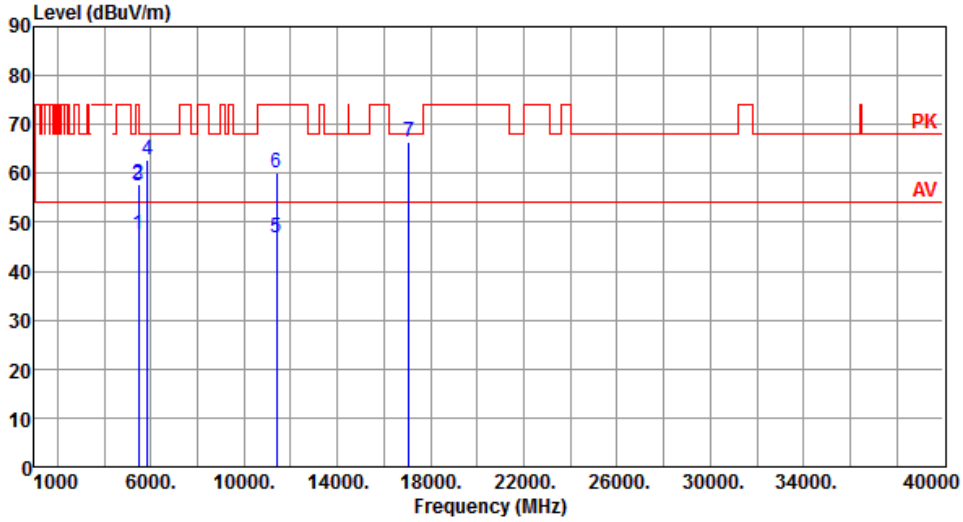
Modulation	VHT80	Test Freq. (MHz)	5610
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5725.00	66.96	68.20	-1.24	59.20	7.76	Peak	100	265
2	11220.00	46.97	54.00	-7.03	30.41	16.56	Average	100	4
3	11220.00	58.86	74.00	-15.14	42.30	16.56	Peak	100	4
4	16830.00	60.79	68.20	-7.41	42.30	18.49	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

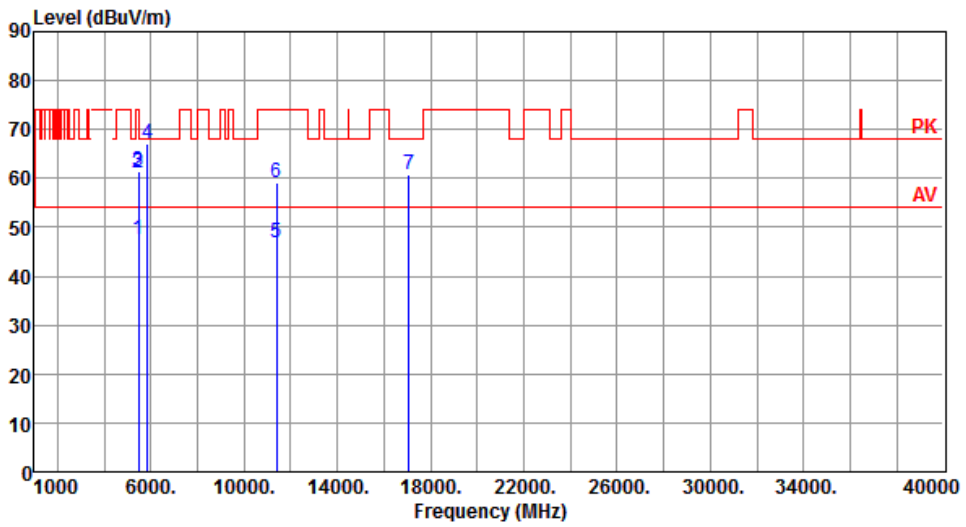
Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.58	54.00	-6.42	40.21	7.37	Average	262	201
2	5460.00	57.87	74.00	-16.13	50.50	7.37	Peak	262	201
3	5470.00	57.52	68.20	-10.68	50.10	7.42	Peak	262	201
4	5850.00	62.70	68.20	-5.50	54.58	8.12	Peak	262	201
5	11380.00	46.97	54.00	-7.03	30.25	16.72	Average	100	45
6	11380.00	60.27	74.00	-13.73	43.55	16.72	Peak	100	45
7	17070.00	66.36	68.20	-1.84	47.74	18.62	Peak	173	23

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

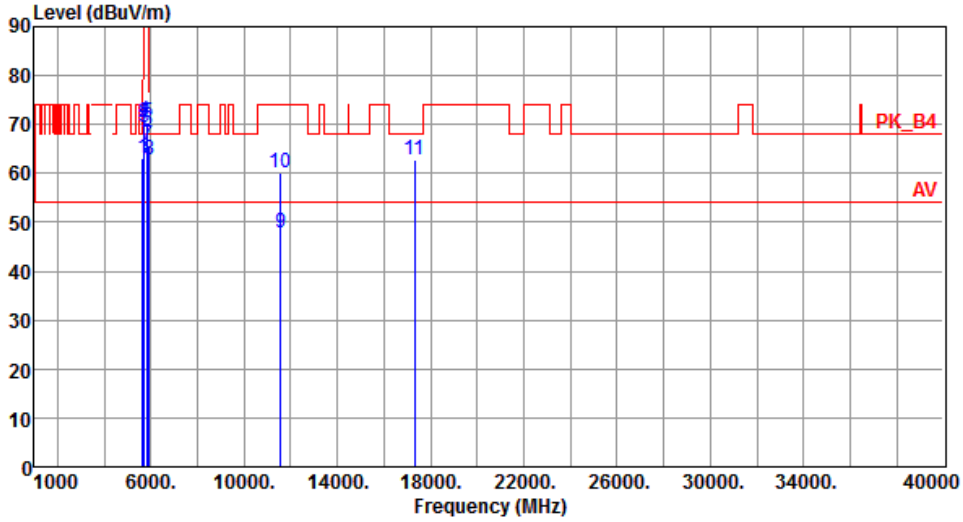
Modulation	VHT80	Test Freq. (MHz)	5690
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5460.00	47.62	54.00	-6.38	40.25	7.37	Average	100	265
2	5460.00	60.95	74.00	-13.05	53.58	7.37	Peak	100	265
3	5470.00	61.54	68.20	-6.66	54.12	7.42	Peak	100	265
4	5850.00	66.97	68.20	-1.23	58.85	8.12	Peak	100	265
5	11380.00	46.96	54.00	-7.04	30.24	16.72	Average	100	9
6	11380.00	58.96	74.00	-15.04	42.24	16.72	Peak	100	9
7	17070.00	60.76	68.20	-7.44	42.14	18.62	Peak	100	4

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

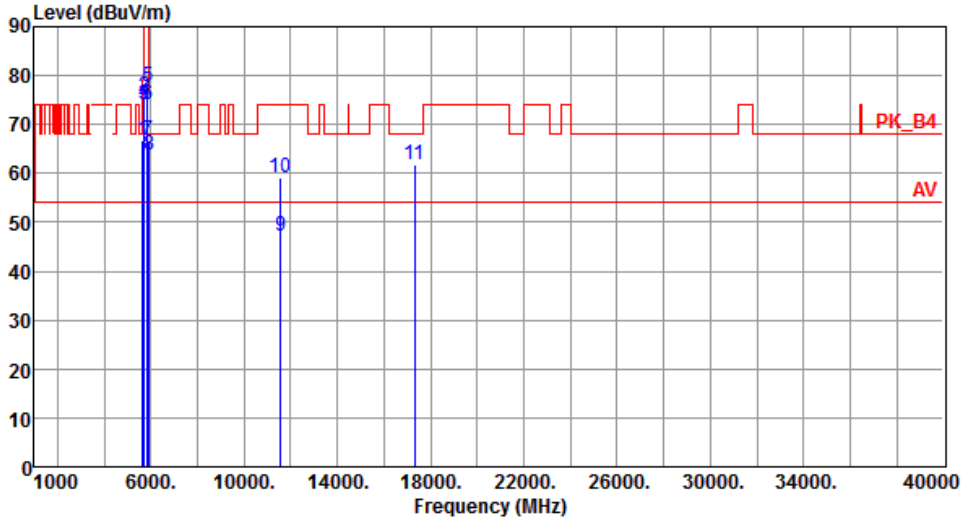
Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	63.06	68.20	-5.14	55.67	7.39	Peak	220	313
2	5700.00	70.28	105.20	-34.92	62.58	7.70	Peak	220	313
3	5720.00	69.42	110.80	-41.38	61.68	7.74	Peak	220	313
4	5725.00	70.63	122.20	-51.57	62.87	7.76	Peak	220	313
5	5850.00	70.36	122.20	-51.84	62.24	8.12	Peak	220	313
6	5855.00	68.75	110.80	-42.05	60.62	8.13	Peak	220	313
7	5875.00	65.69	105.20	-39.51	57.51	8.18	Peak	220	313
8	5925.00	62.68	68.20	-5.52	54.41	8.27	Peak	220	313
9	11550.00	47.76	54.00	-6.24	31.00	16.76	Average	100	8
10	11550.00	60.26	74.00	-13.74	43.50	16.76	Peak	100	8
11	17325.00	62.89	68.20	-5.31	43.85	19.04	Peak	175	19

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	VHT80	Test Freq. (MHz)	5775
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	5650.00	66.77	68.20	-1.43	59.38	7.39	Peak	100	286
2	5700.00	75.71	105.20	-29.49	68.01	7.70	Peak	100	286
3	5720.00	74.05	110.80	-36.75	66.31	7.74	Peak	100	286
4	5725.00	74.30	122.20	-47.90	66.54	7.76	Peak	100	286
5	5850.00	77.70	122.20	-44.50	69.58	8.12	Peak	100	286
6	5855.00	73.96	110.80	-36.84	65.83	8.13	Peak	100	286
7	5875.00	66.89	105.20	-38.31	58.71	8.18	Peak	100	286
8	5925.00	63.81	68.20	-4.39	55.54	8.27	Peak	100	286
9	11550.00	47.18	54.00	-6.82	30.42	16.76	Average	100	5
10	11550.00	59.27	74.00	-14.73	42.51	16.76	Peak	100	5
11	17325.00	61.92	68.20	-6.28	42.88	19.04	Peak	100	9

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.6 Frequency Stability

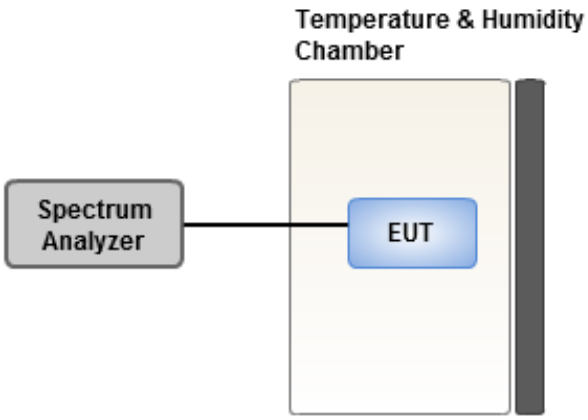
3.6.1 Limit of Frequency Stability

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.

3.6.2 Test Procedures

1. The EUT is installed in an environment test chamber with external power source.
2. Set the chamber to operate at 20 centigrade and external power source to output at nominal voltage of EUT.
3. A sufficient stabilization period at each temperature is used prior to each frequency measurement.
4. When temperature is stabled, measure the frequency stability.
5. The test shall be performed under normal and extreme condition for temperature and voltage.

3.6.3 Test Setup



3.6.4 Test Result of Frequency Stability

Frequency: 5320 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	4.83	5.05	5.38	4.38
T20°CVmin	4.17	3.78	4.66	3.98
T60CVnom	2.14	2.36	1.94	1.84
T50CVnom	3.48	3.73	4.23	3.14
T40°CVnom	3.58	3.63	4.03	3.72
T30°CVnom	3.56	3.46	3.90	4.22
T20°CVnom	3.78	3.85	3.84	4.58
T10°CVnom	0.47	0.54	0.67	0.61
T0°CVnom	-1.48	-1.49	-1.36	-1.16
T-10°CVnom	-5.55	-5.52	-5.42	-5.18
T-20°CVnom	-7.48	-7.01	-7.48	-6.95
T-30°CVnom	-9.87	-9.41	-9.33	-9.53
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 60		Tmin [°C]: -30

Frequency: 5785 MHz	Frequency Drift (ppm)			
Temperature (°C)	0 minute	2 minutes	5 minutes	10 minutes
T20°CVmax	5.13	4.99	5.65	5.88
T20°CVmin	4.00	3.76	4.32	4.35
T60CVnom	2.49	2.16	2.43	2.15
T50CVnom	3.96	4.17	4.33	4.05
T40°CVnom	3.33	4.01	3.56	3.49
T30°CVnom	3.90	4.01	3.64	4.65
T20°CVnom	4.13	4.22	4.54	4.78
T10°CVnom	0.69	0.47	0.52	1.13
T0°CVnom	-2.55	-3.20	-2.69	-3.07
T-10°CVnom	-4.07	-3.80	-4.22	-3.57
T-20°CVnom	-6.53	-6.41	-5.77	-6.99
T-30°CVnom	-8.05	-8.14	-7.75	-8.47
Vnom [Vac]: 120		Vmax [Vac]: 138		Vmin [Vac]: 102
Tnom [°C]: 20		Tmax [°C]: 60		Tmin [°C]: -30

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou	**Kwei Shan**	**Kwei Shan Site II**
Tel: 886-2-2601-1640	Tel: 886-3-271-8666	Tel: 886-3-271-8640
No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan, R.O.C.	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666
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