

Report on the RF Testing of:

KYOCERA Corporation
Mobile Phone, Model: EB1083
FCC ID: JOYEB1083

In accordance with FCC Part15 Subpart E

Prepared for: KYOCERA Corporation
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Document Number: JPD-TR-21196-0

SIGNATURE

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Hiroaki Suzuki	Deputy Manager of RF Group	Approved Signatory	2021.10.15

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EXECUTIVE SUMMARY – Result: Complied

A sample of this product was tested and the result above was confirmed in accordance with FCC Part15 Subpart E.



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1 Summary of Test

1.1 Modification history of the test report

Document Number	Modification History	Issue Date
JPD-TR-21196-0	First Issue	Refer to the cover page

1.2 Standards

CFR47 FCC Part 15 Subpart E

1.3 Test methods

ANSI C63.10-2013
KDB789033 D02 General U-NII Test Procedures New Rules v02r01

1.4 Deviation from standards

None

1.5 List of applied test(s) of the EUT

Test item section	Test item	Condition	Result	Remark
15.407(a)	26dB Bandwidth	Conducted	PASS	-
15.407(a)	Maximum Conducted Output Power	Conducted	PASS	-
15.407(a)	Peak Power Spectral Density	Conducted	PASS	-
15.407(b) 15.205 15.209	Radiated emissions (Restricted Bands of Operation)	Radiated	PASS	-
15.407(g)	Frequency Stability	Conducted	PASS	-
15.207	AC Power Line Conducted Emissions	Conducted	PASS	-

1.6 Test information

None

1.7 Test set up

Table-top

1.8 Test period

18-August-2021 - 9-October-2021

2 Equipment Under Test

2.1 EUT information

Applicant	KYOCERA Corporation Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku Yokohama-shi, Kanagawa, Japan Phone: +81-45-943-6253 Fax: +81-45-943-6314
Equipment Under Test (EUT)	Mobile Phone
Model number	EB1083
Serial number	352837520004929, RF1
Trade name	Kyocera
Number of sample(s)	2
EUT condition	Pre-Production
Power rating	Battery: DC 3.87 V
Size	(W) 72 mm × (D) 8.9 mm × (H) 156 mm
Environment	Indoor and Outdoor use
Terminal limitation	-20°C to 60°C
Hardware version	DMT
Software version	0029.a
Firmware version	Not applicable
RF Specification	
Protocol	IEEE802.11a, IEEE802.11n (HT20), IEEE802.11n (HT40) IEEE802.11ac (VHT20), IEEE802.11ac (VHT40), IEEE802.11ac (VHT80)
Frequency range	IEEE802.11a/n (HT20) / IEEE802.11ac (VHT20): 5180 MHz-5320 MHz, 5500 MHz-5720 MHz, 5745MHz-5825MHz IEEE802.11n (HT40) / IEEE802.11ac (VHT40): 5190 MHz-5310 MHz, 5510 MHz-5710 MHz, 5755MHz, 5795MHz IEEE802.11ac (VHT80): 5210 MHz, 5290 MHz, 5530 MHz, 5610 MHz, 5690MHz, 5775MHz
Number of RF Channels	IEEE802.11a/n (HT20) / IEEE802.11ac (VHT20): 25 Channels IEEE802.11n (HT40) / IEEE802.11ac (VHT40): 12 Channels IEEE802.11ac (VHT80): 6 Channels
Modulation type	IEEE802.11a/n/ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)

Data rate	IEEE802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE802.11n (HT20 LGI): 6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 78, 86.5Mbps IEEE802.11n (HT20 SGI): 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 86.7, 96.1Mbps IEEE802.11ac (VHT20 LGI): 6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 78, 86.5Mbps IEEE802.11ac (VHT20 SGI): 7.2, 14.4, 21.7, 28.9, 43.3, 57.8, 65, 72.2, 86.6, 96.1Mbps IEEE802.11n (HT40 LGI): 13.5, 27, 40.5, 54, 81, 108, 121.5, 135, 162, 180Mbps IEEE802.11n (HT40 SGI): 15, 30, 45, 60, 90, 120, 135, 150, 180, 200Mbps IEEE802.11ac (VHT40 LGI): 13.5, 27, 40.5, 54, 81, 108, 121.5, 135, 162, 180Mbps IEEE802.11ac (VHT40 SGI): 15, 30, 45, 60, 90, 120, 135, 150, 180, 200Mbps IEEE802.11ac (VHT80 LGI): 29.5, 58.5, 87.8, 117, 175.5, 234, 263.3, 292.5, 351, 390Mbps IEEE802.11ac (VHT80 SGI): 32.5, 65, 97.5, 130, 195, 260, 292.5, 325, 390, 433.3Mbps
Channel separation	IEEE802.11a/n(HT20) / IEEE802.11ac (VHT20): 20 MHz IEEE802.11n (HT40) / IEEE802.11ac (VHT40): 40 MHz IEEE802.11ac (VHT80): 80 MHz
Conducted power	14.786 mW (IEEE802.11a) 14.833 mW (IEEE802.11n: HT20) 16.887 mW (IEEE802.11n: HT40) 16.884 mW (IEEE802.11ac: VHT80)
Antenna type	Internal antenna
Antenna gain	5.15-5.25 GHz band: -2.7 dBi 5.25-5.35 GHz band: -0.3 dBi 5.47-5.725 GHz band: 1.3 dBi 5.745-5.825 GHz band: 1.5 dBi

2.2 Modification to the EUT

The table below details modifications made to the EUT during the test project.

Modification State	Description of Modification	Modification fitted by	Date of Modification
Model: EB1083, Serial Number: 352837520004929, RF1			
0	As supplied by the applicant	Not Applicable	Not Applicable

2.3 Variation of family model(s)

2.3.1 List of family model(s)

Not applicable

2.3.2 Reason for selection of EUT

Not applicable

2.4 Operating channels and frequencies

[IEEE802.11a/n (HT20) / IEEE802.11ac (VHT20)]

Channel	Frequency [MHz]
36	5180
40	5200
44	5220
48	5240
52	5260
56	5280
60	5300
64	5320
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700
144	5720
149	5745
157	5785
165	5825

[IEEE802.11n (HT40) / IEEE802.11ac (VHT40)]

Channel	Frequency [MHz]
38	5190
46	5230
54	5270
62	5310
102	5510
110	5550
118	5590
126	5630
134	5670
142	5710
151	5755
159	5795

[IEEE802.11ac (VHT80)]

Channel	Frequency [MHz]
42	5210
58	5290
106	5530
122	5610
138	5690
155	5775

2.5 Description of test mode

The EUT had been tested under operating condition.
There are three channels have been tested as following:

Band	IEEE802.11a/n (HT20) IEEE802.11ac (VHT20)		IEEE802.11n (HT40) IEEE802.11ac (VHT40)		IEEE802.11ac (HT80)	
	Channel	Frequency [MHz]	Channel	Frequency [MHz]	Channel	Frequency [MHz]
5.2 GHz Band	36	5180	38	5190	42	5210
	40	5200	-	-	-	-
	48	5240	46	5230	-	-
5.3 GHz Band	52	5260	54	5270	58	5290
	56	5280	-	-	-	-
	64	5320	62	5310	-	-
5.6 GHz Band	100	5500	102	5510	106	5530
	116	5580	110	5550	122	5610
	140	5700	134	5670	138	5690
	144	5720	142	5690	-	-
5.8 GHz Band	149	5745	151	5755	155	5775
	157	5785	-	-	-	-
	165	5825	159	5795	-	-

The pre-test has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

Band	Modulation Type	Data Rate
5.2 GHz Band	IEEE802.11a: OFDM	6Mbps
	IEEE802.11n (HT20): OFDM	MCS0 (6.5Mbps)
	IEEE802.11n (HT40): OFDM	MCS0 (13.5Mbps)
	IEEE802.11ac (VHT80): OFDM	MCS0 (29.5Mbps)
5.3 GHz Band	IEEE802.11a: OFDM	6Mbps
	IEEE802.11n (HT20): OFDM	MCS0 (6.5Mbps)
	IEEE802.11n (HT40): OFDM	MCS0 (13.5Mbps)
	IEEE802.11ac (VHT80): OFDM	MCS0 (29.5Mbps)
5.6 GHz Band	IEEE802.11a: OFDM	6Mbps
	IEEE802.11n (HT20): OFDM	MCS0 (6.5Mbps)
	IEEE802.11n (HT40): OFDM	MCS0 (13.5Mbps)
	IEEE802.11ac (VHT80): OFDM	MCS0 (29.5Mbps)
5.8 GHz Band	IEEE802.11a: OFDM	6Mbps
	IEEE802.11n (HT20): OFDM	MCS0 (6.5Mbps)
	IEEE802.11n (HT40): OFDM	MCS0 (13.5Mbps)
	IEEE802.11ac (VHT80): OFDM	MCS0 (29.5Mbps)

The field strength of spurious emissions was measured at each position of all three axis X, Y and Z to compare the level, and the maximum noise.

The worst emission was found in X axis and the worst case recorded.

Pre-scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports.



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2.6 Operating flow

- Tx mode

- i) Test program setup to the Software
- ii) Select a Test mode
Operating frequency: 5.2GHz Band, 5.3GHz Band, 5.6GHz Band
- iii) Start test mode

- Rx mode

- i) Test program setup to the Software
- ii) Select a Test mode
Operating frequency: 5.2GHz Band, 5.3GHz Band, 5.6GHz Band
- iii) Start test mode

3 Configuration of Equipment

Numbers assigned to equipment on the diagram in “3.3 System configuration” correspond to the lists in “3.1 Equipment used” and “3.2 Cable(s) used”.

Cabling and setup(s) were taken into consideration and test data was taken under worse case condition.

3.1 Equipment used

No.	Equipment	Company	Model No.	Serial No.	FCC ID / DoC	Comment
1	Mobile Phone	KYOCERA	EB1083	352837520004929, RF1	JOYEB1083	EUT
2	AC Adapter	KDDI	0301PQA	N/A	N/A	*

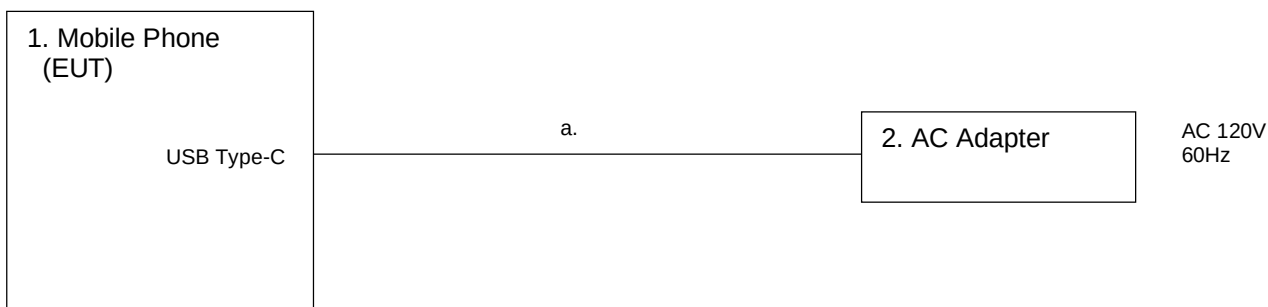
*: AC power line Conducted Emission Test.

3.2 Cable(s) used

No.	Cable	Length[m]	Shield	Connector	Comment
a	USB cable (for AC Adapter)	1.0	Yes	Metal	*

*: AC power line Conducted Emission Test.

3.3 System configuration



4 Test Result

4.1 26dB Bandwidth and 99% Occupied Bandwidth

4.1.1 Measurement procedure

[FCC 15.407(a), KDB 789033 D02, Section C, D]

The 26dB bandwidth and 99% occupied bandwidth is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

The spectrum analyzer is set to;

- RBW=200 kHz/430 kHz/820 kHz, VBW=620 kHz/1.3 MHz/2.4 MHz, Span=40 MHz/80 MHz/160 MHz
- Sweep=auto, Detector=Peak, Trace mode=Max hold

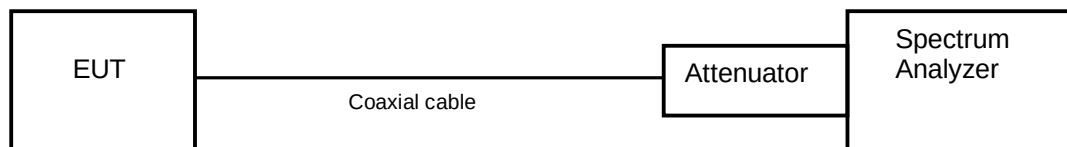
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band

The test mode of EUT is as follows.

- Tx mode

- Test configuration



4.1.2 Limit

None

4.1.3 Measurement result

Date : 31-August-2021

Temperature : 24.1 [°C]

Humidity : 59.4 [%]

Test place : Shielded room No.4

Test engineer : Tadahiro Seino

Mode	Band	Channel	Frequency (MHz)	26 dB bandwidth (MHz)	99% Occupied bandwidth (MHz)
802.11a	5.2 GHz Band	36	5180	22.599	16.5612
		40	5200	22.037	16.5914
		48	5240	22.247	16.5772
	5.3 GHz Band	52	5260	22.017	16.5975
		56	5280	22.681	16.5707
		64	5320	22.602	16.5529
	5.6 GHz Band	100	5500	22.043	16.5817
		116	5580	22.056	16.5872
		140	5700	23.030	16.6232
		144	5720	22.650	16.5757
	5.8 GHz Band	149	5745	22.434	16.6082
		157	5785	22.652	16.6362
		165	5825	22.500	16.5877

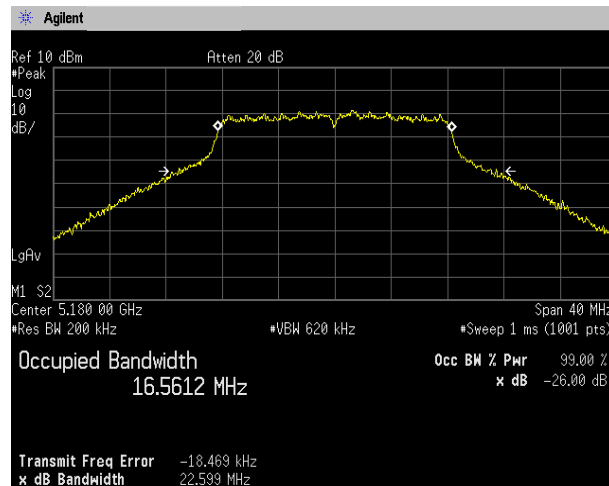
Mode	Band	Channel	Frequency (MHz)	26 dB bandwidth (MHz)	99% Occupied bandwidth (MHz)
802.11n (20 MHz)	5.2 GHz Band	36	5180	23.004	17.7229
		40	5200	22.378	17.6947
		48	5240	22.431	17.7317
	5.3 GHz Band	52	5260	22.740	17.6997
		56	5280	23.091	17.7317
		64	5320	23.108	17.7235
	5.6 GHz Band	100	5500	22.309	17.6850
		116	5580	22.632	17.7213
		140	5700	23.190	17.7440
		144	5720	23.500	17.7304
	5.8 GHz Band	149	5745	23.906	17.7571
		157	5785	23.560	17.7564
		165	5825	23.147	17.7631

Mode	Band	Channel	Frequency (MHz)	26 dB bandwidth (MHz)	99% Occupied bandwidth (MHz)
802.11n (40 MHz)	5.2 GHz Band	38	5190	41.483	36.2158
		46	5230	41.139	36.2109
	5.3 GHz Band	54	5270	41.229	36.2143
		62	5310	41.420	36.2454
	5.6 GHz Band	102	5510	41.381	36.2127
		110	5550	41.393	36.2324
		134	5670	41.589	36.2137
		142	5710	41.227	36.2277
	5.8 GHz Band	151	5755	41.277	36.2274
		159	5795	41.726	36.2492

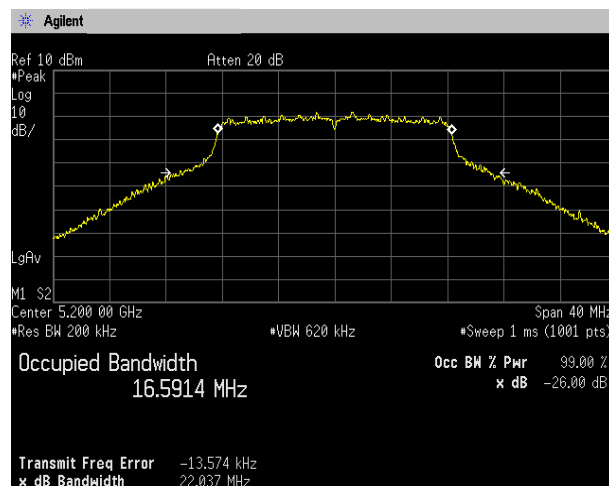
Mode	Band	Channel	Frequency (MHz)	26dB bandwidth (MHz)	99% Occupied bandwidth (MHz)
802.11ac (80 MHz)	5.2 GHz Band	42	5210	82.882	75.5416
	5.3 GHz Band	58	5290	83.377	75.5657
	5.6 GHz Band	106	5530	83.702	75.5538
		122	5610	83.468	75.6085
		138	5690	83.515	75.5544
	5.8 GHz Band	155	5775	84.293	75.6562

4.1.4 Trace data

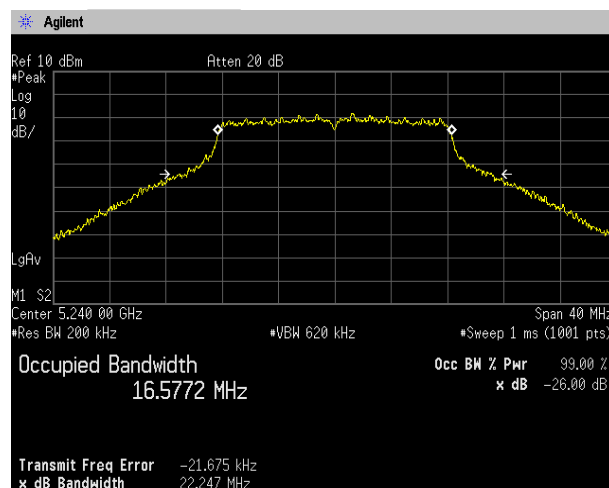
[IEEE802.11a]
(5.2 GHz Band)
Channel: 36



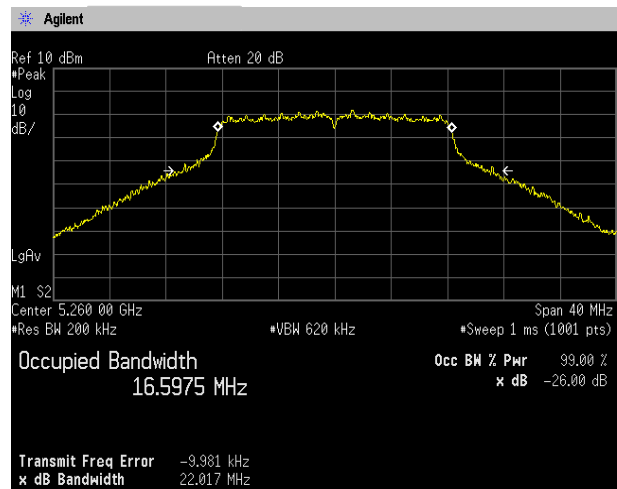
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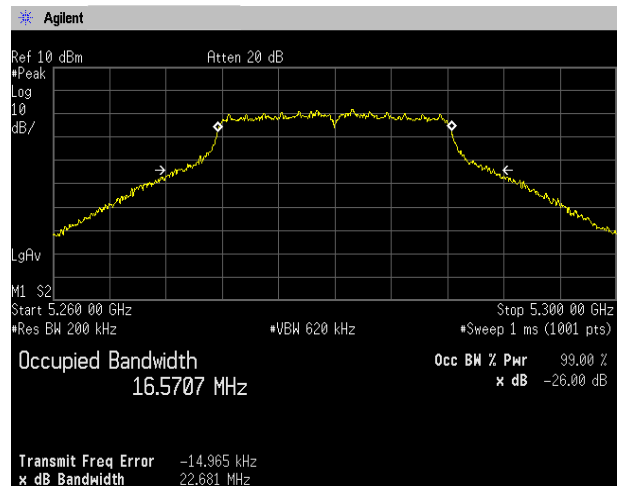
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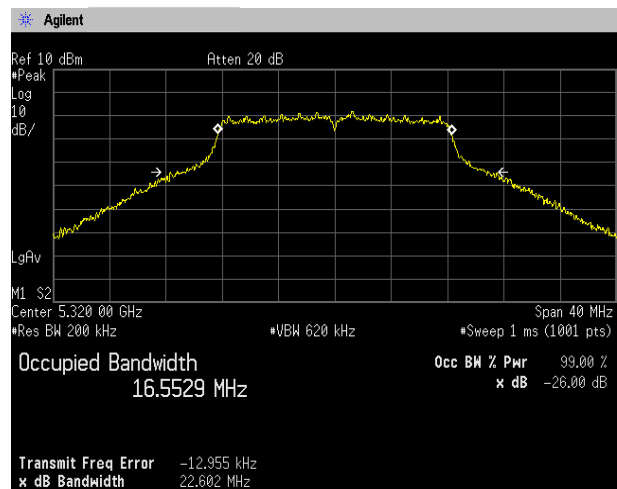
(5.3 GHz Band)
Channel: 52



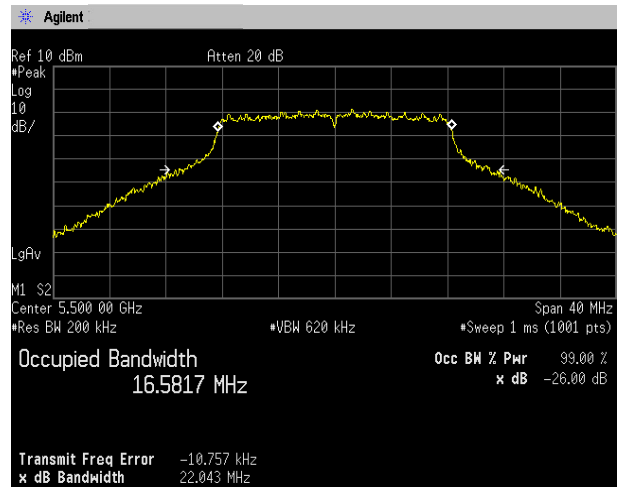
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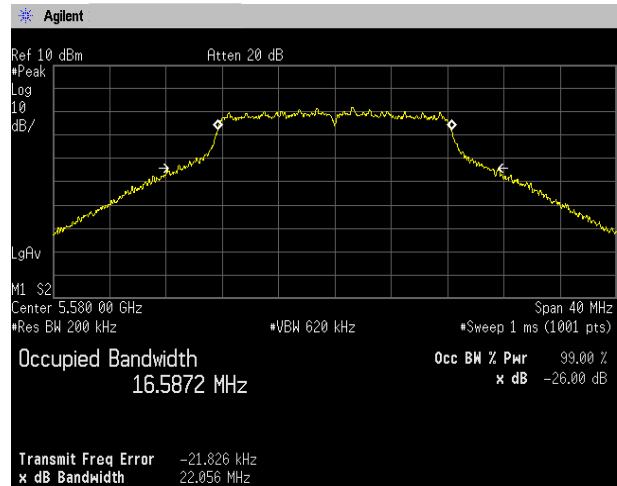
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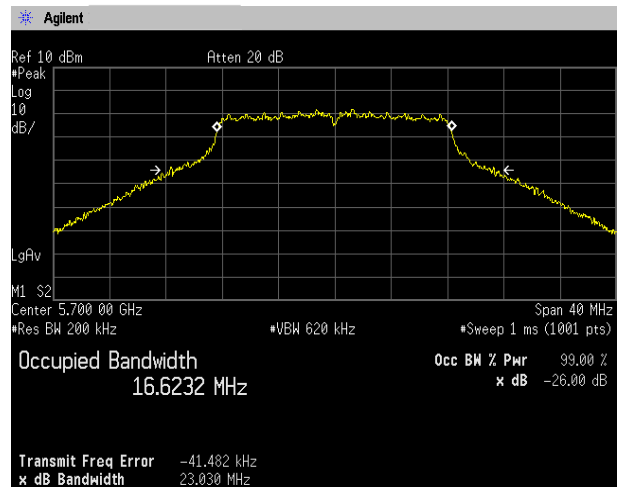
(5.6 GHz Band)
Channel: 100



Channel: 116



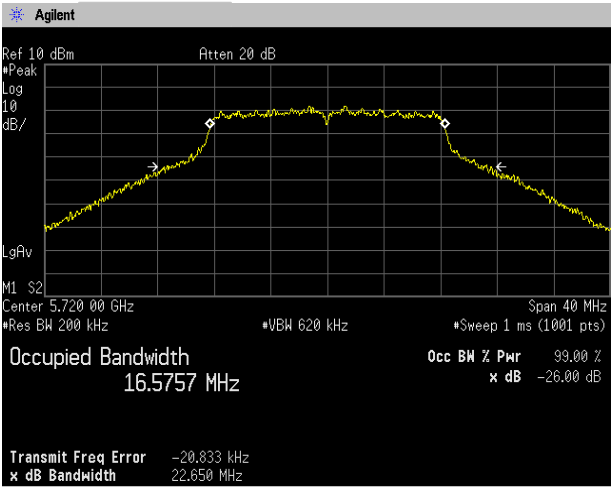
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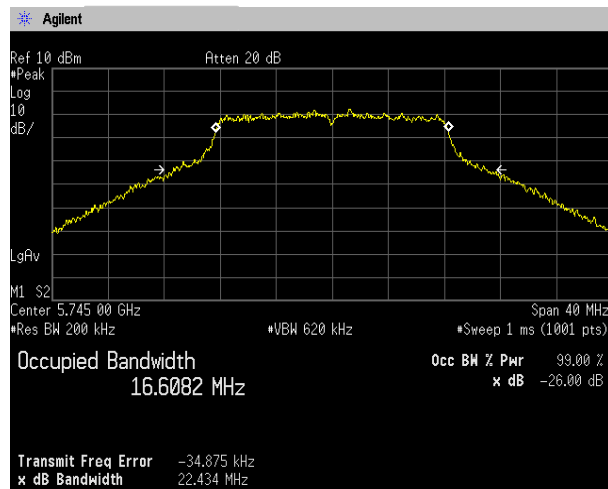


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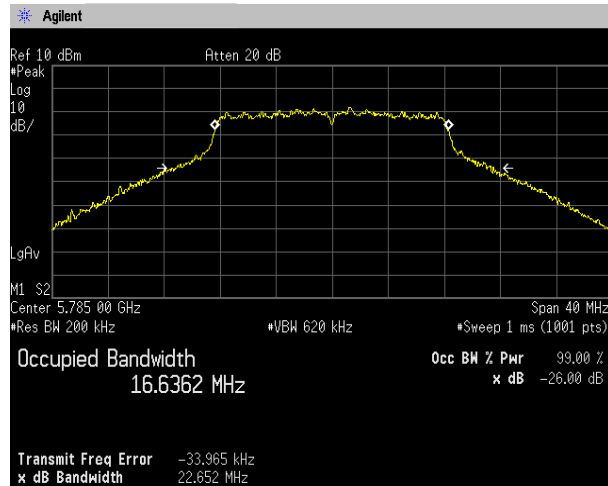
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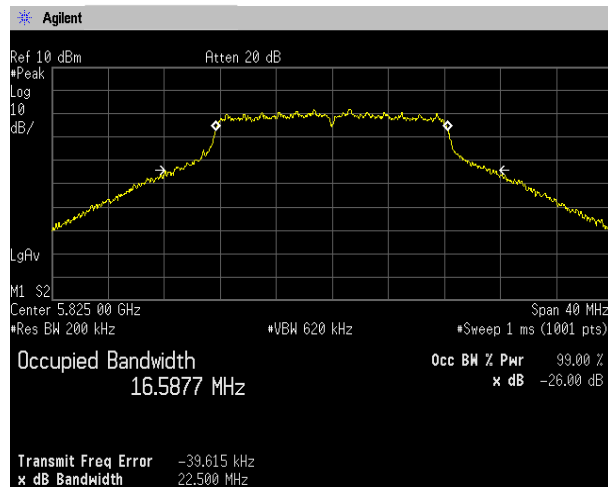
(5.8 GHz Band)
Channel: 149



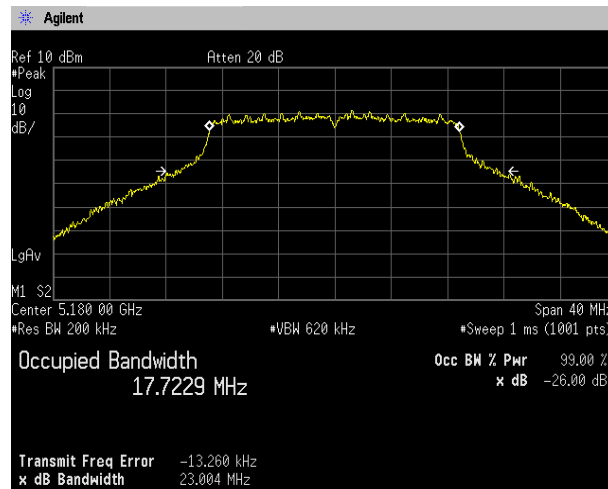
Channel: 157



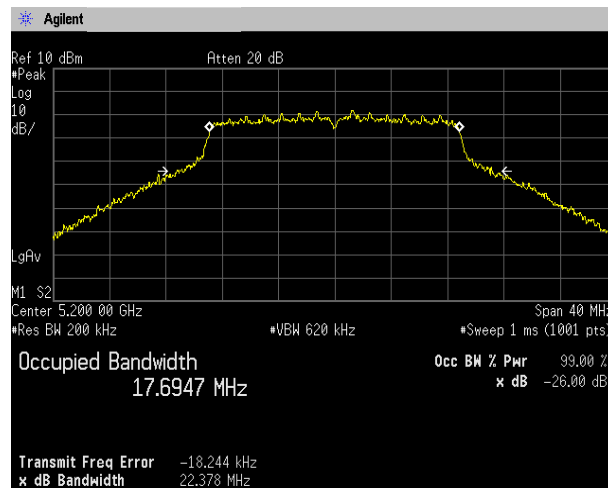
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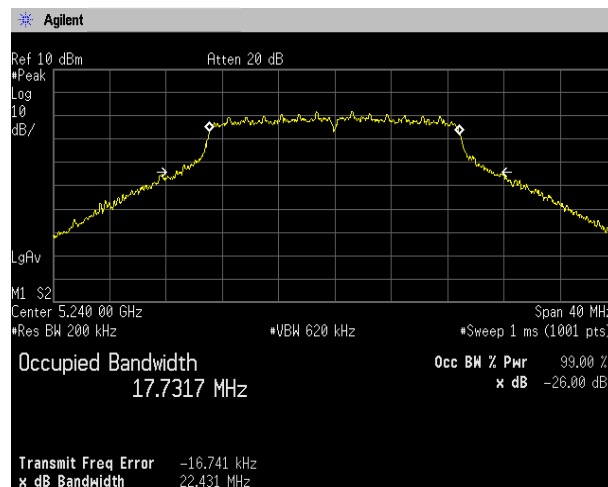
[IEEE802.11n (HT20)]
(5.2 GHz Band)
Channel: 36



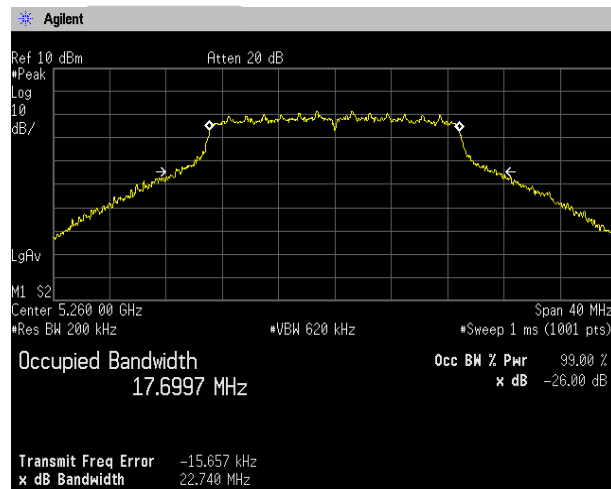
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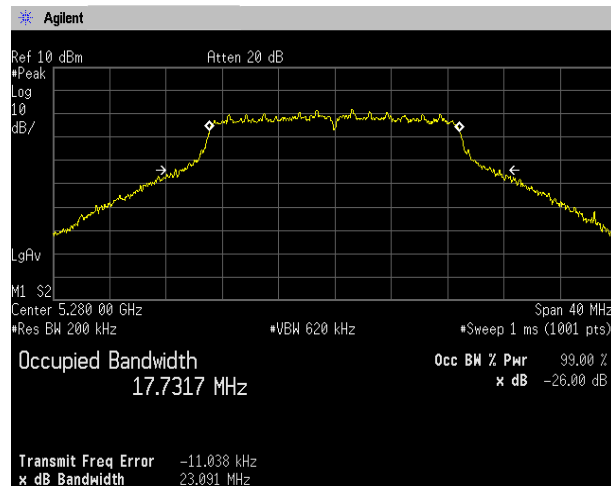
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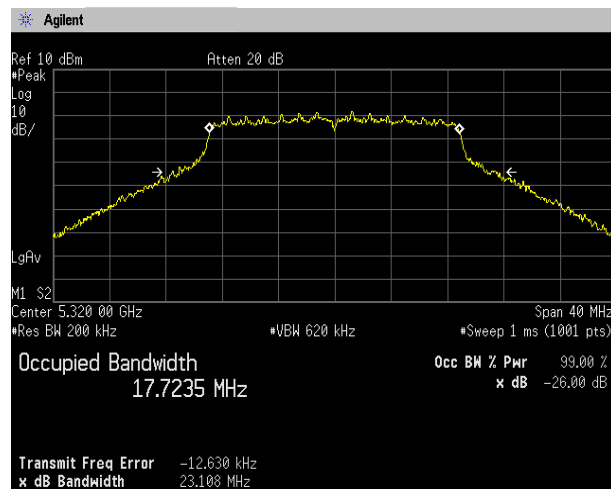
(5.3 GHz Band)
Channel: 52



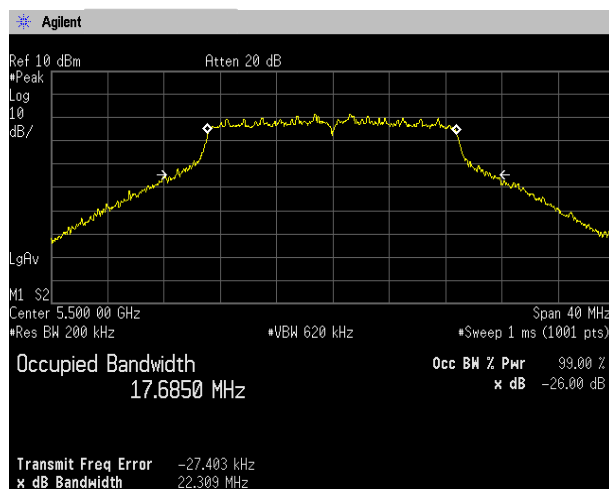
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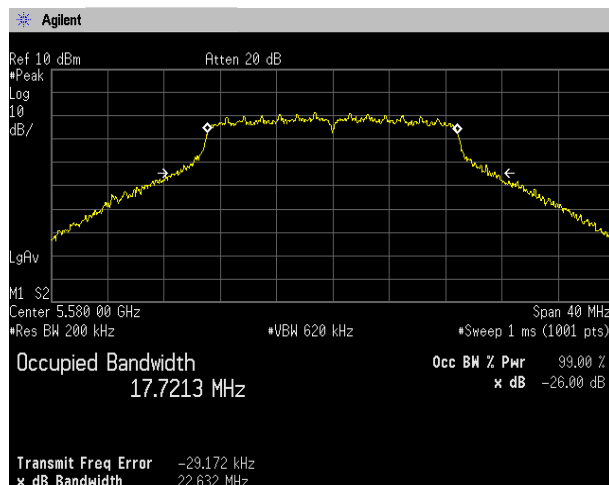
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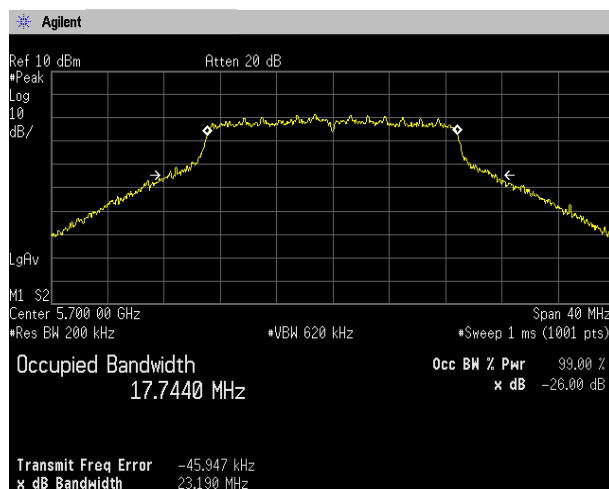
(5.6 GHz Band)
Channel: 100



Channel: 116



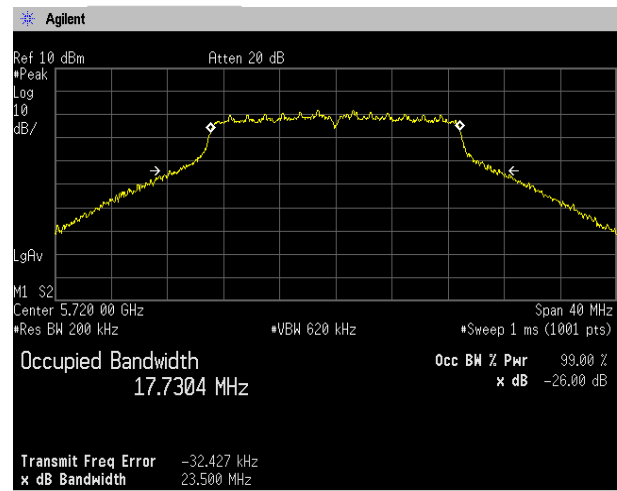
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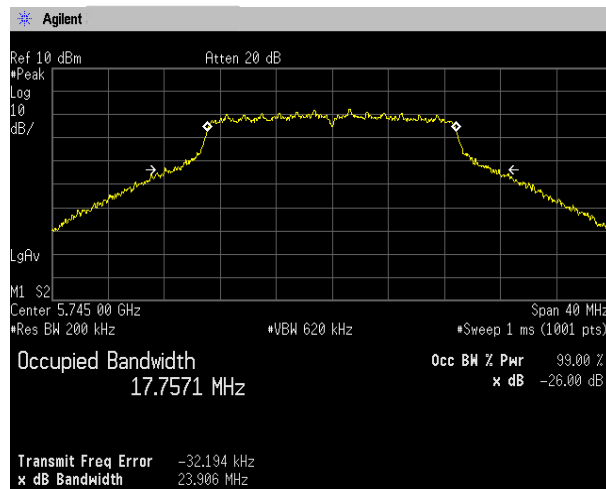


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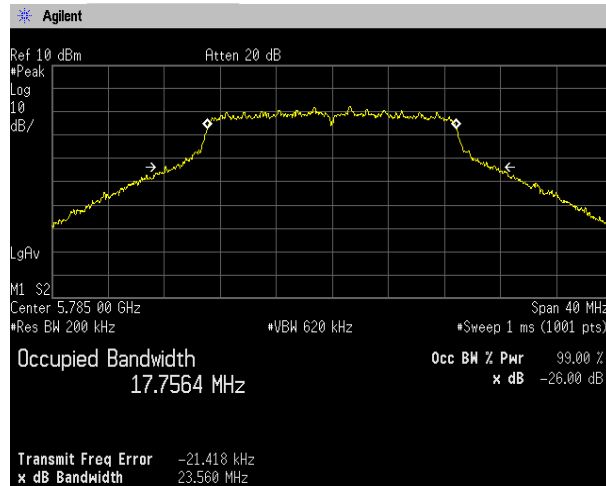
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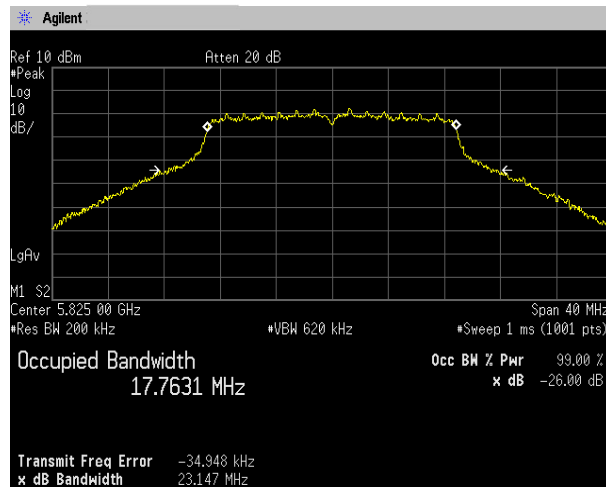
(5.8 GHz Band)
Channel: 149



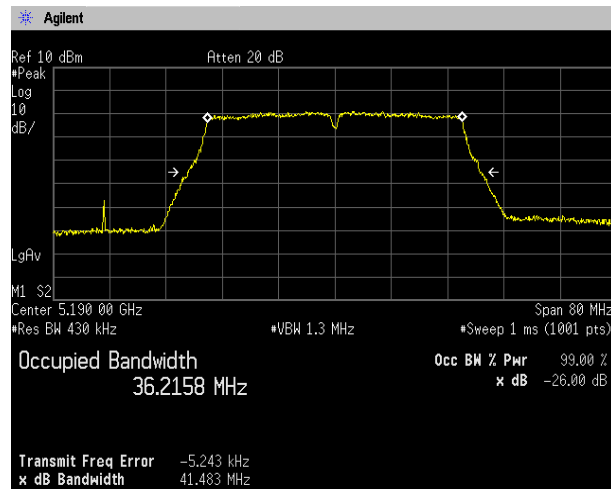
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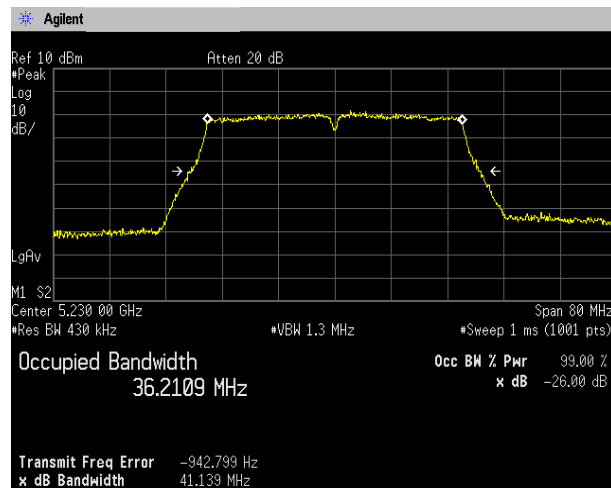
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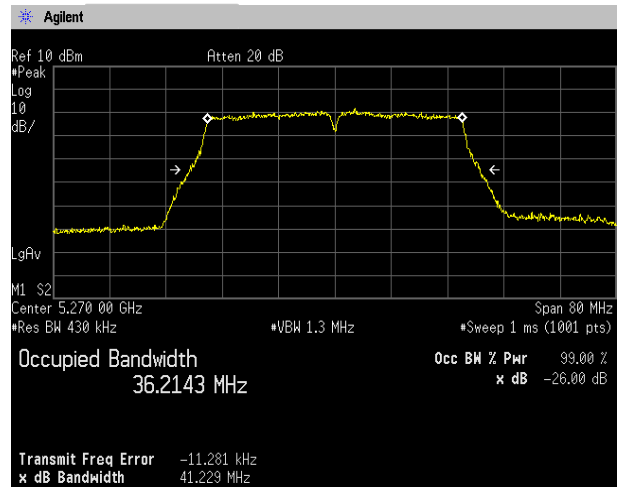
[IEEE802.11n (HT40)]
(5.2 GHz Band)
Channel: 38



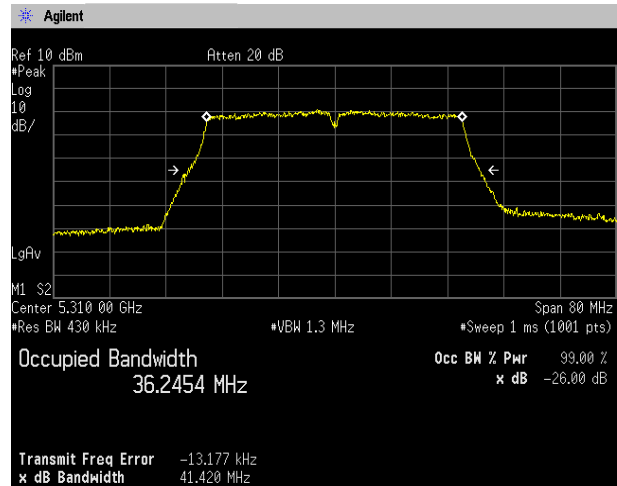
Channel: 46



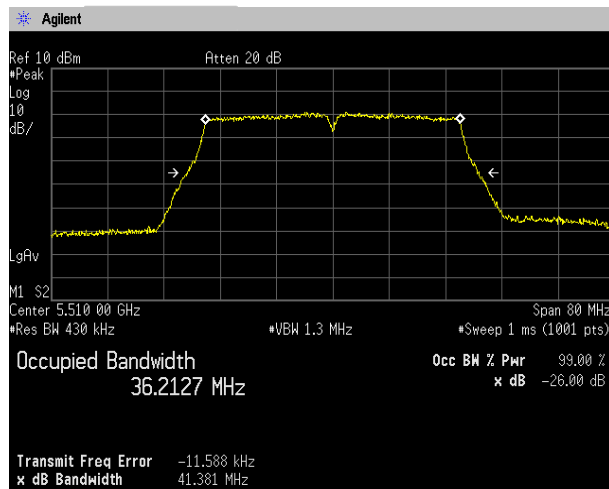
(5.3 GHz Band)
Channel: 54



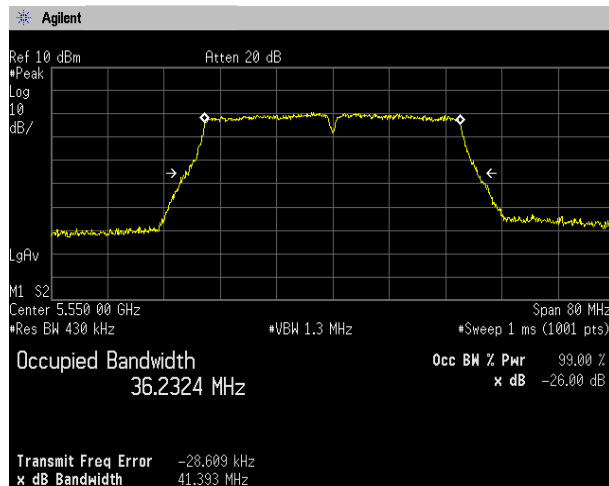
Channel: 62



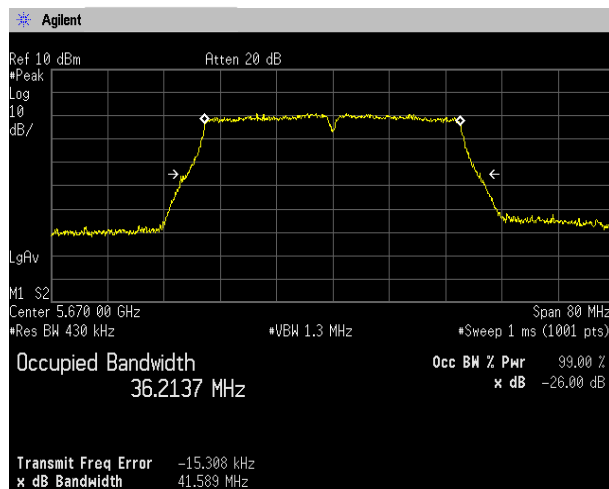
(5.6 GHz Band)
Channel: 102



Channel: 110



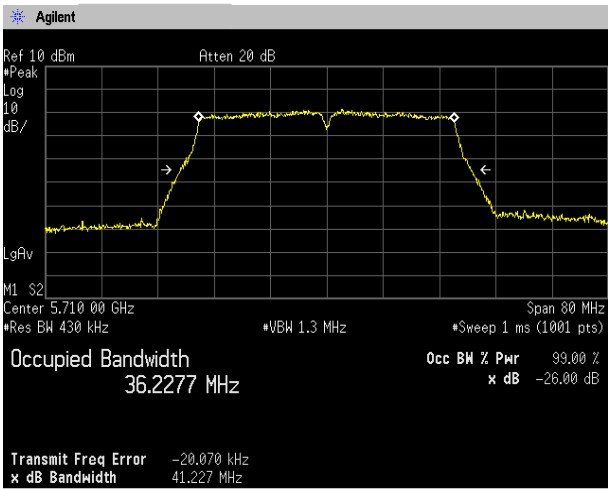
Channel: 134



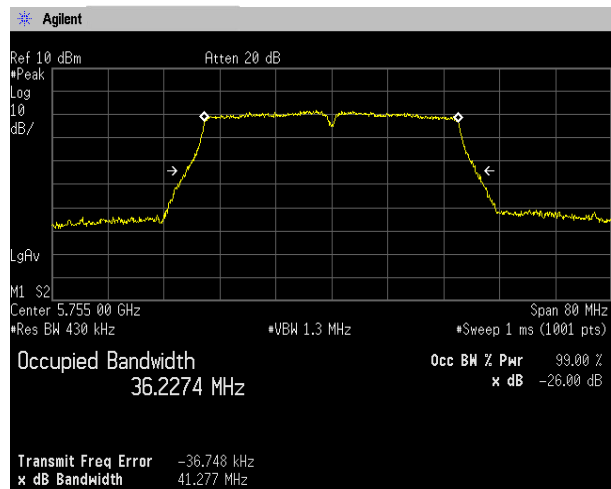


Japan

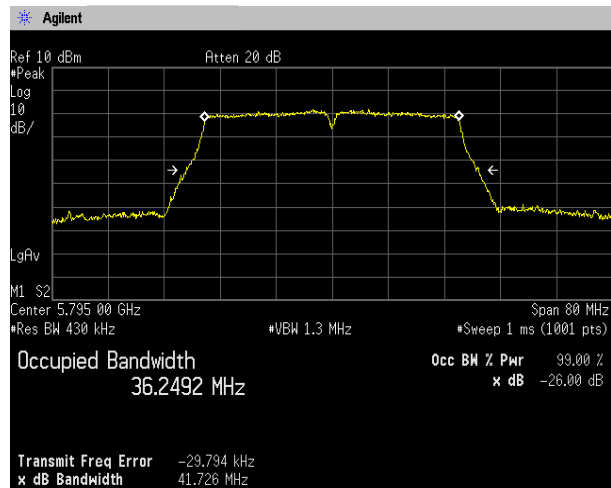
Channel: 142



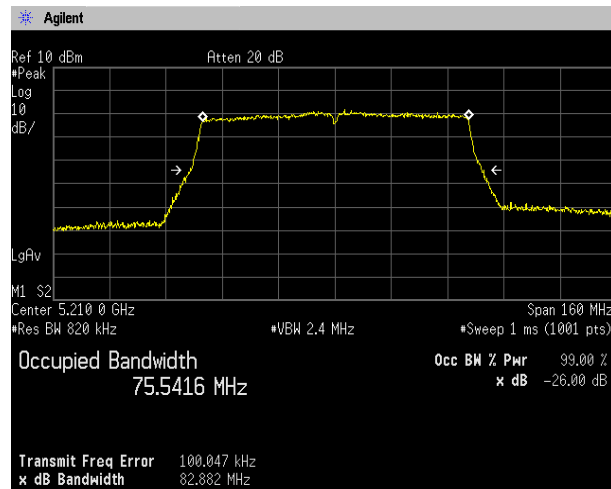
(5.8 GHz Band)
Channel: 151



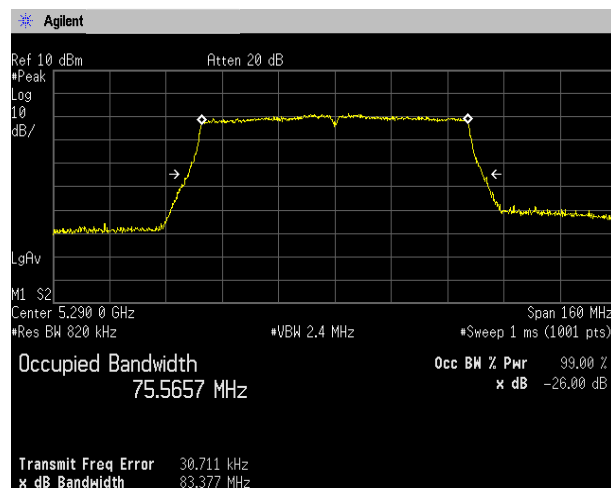
Channel: 159



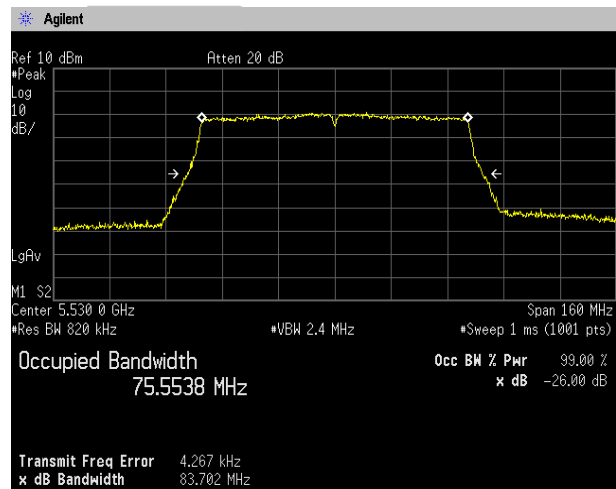
[IEEE802.11ac (HT80)]
(5.2 GHz Band)
Channel: 42



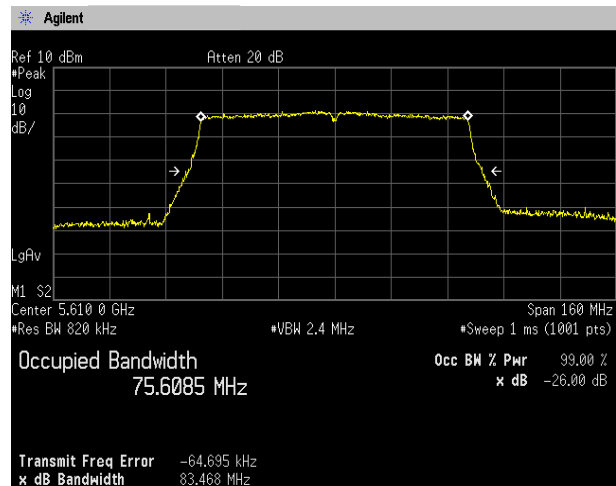
(5.3GHz Band)
Channel: 58



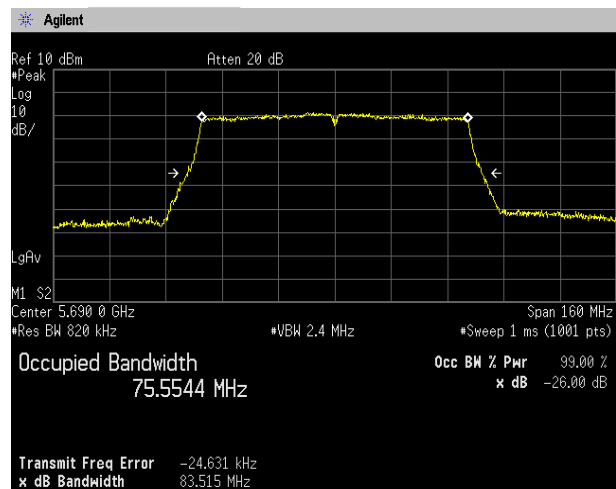
(5.6 GHz Band)
Channel: 106



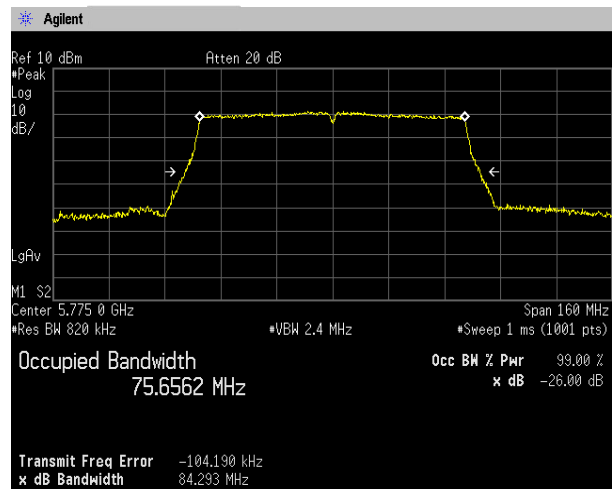
Channel: 122



Channel: 138



(5.8 GHz Band)
Channel: 155



4.2 6dB Bandwidth and 99% Occupied Bandwidth

4.2.1 Measurement procedure

[FCC 15.407(e), KDB 789033 D02, Section C, D]

The 6dB bandwidth and 99% occupied bandwidth is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

The spectrum analyzer is set to;

- RBW=100 kHz, VBW=300 kHz, Span=40 MHz/80 MHz/160 MHz
- Sweep=auto, Detector=Peak, Trace mode=Max hold

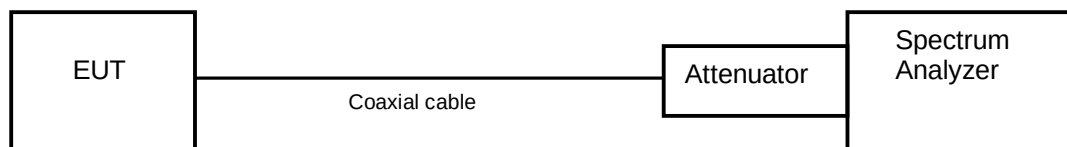
The EUT was set to operate with following conditions.

- 5.8 GHz Band

The test mode of EUT is as follows.

- Tx mode

- Test configuration



4.2.2 Limit

The minimum 6dB bandwidth shall be at least 500kHz.

4.2.3 Measurement result

Date : 31-August-2021

Temperature : 24.1 [°C]

Humidity : 59.4 [%]

Test place : Shielded room No.4

Test engineer :

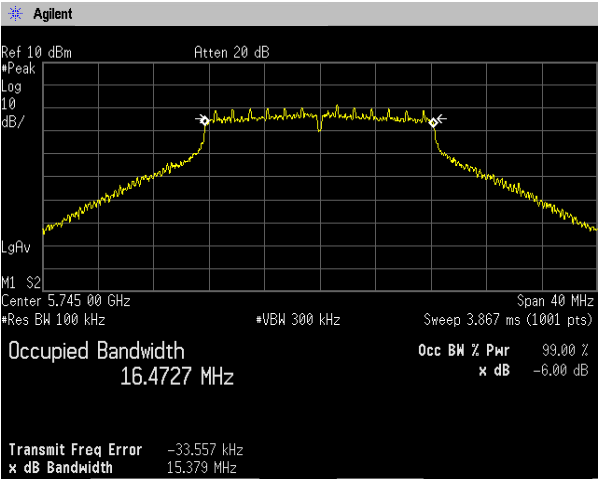
Tadahiro Seino

Channel	6dB bandwidth [MHz]			
	IEEE802.11a	IEEE802.11n (HT20)	IEEE802.11n (HT40)	IEEE802.11n (HT80)
Low	15.379	15.156	36.019	-
Middle	15.193	15.491	-	75.378
High	15.364	16.692	35.817	-

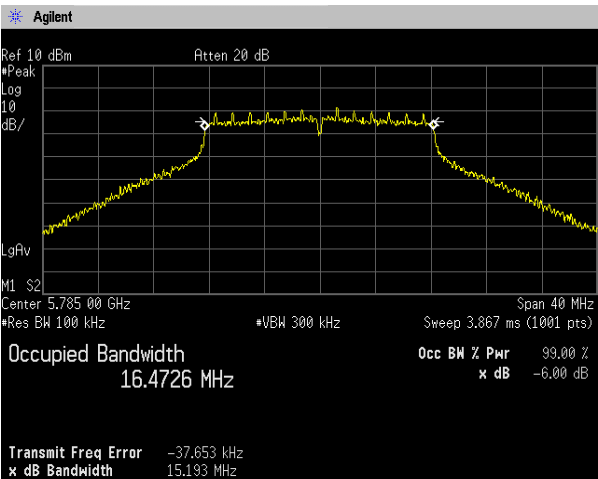
Channel	Occupied bandwidth [MHz]			
	IEEE802.11a	IEEE802.11n (HT20)	IEEE802.11n (HT40)	IEEE802.11n (HT80)
Low	16.473	17.648	36.076	-
Middle	16.473	17.644	-	75.350
High	16.473	17.648	36.067	-

4.2.4 Trace data

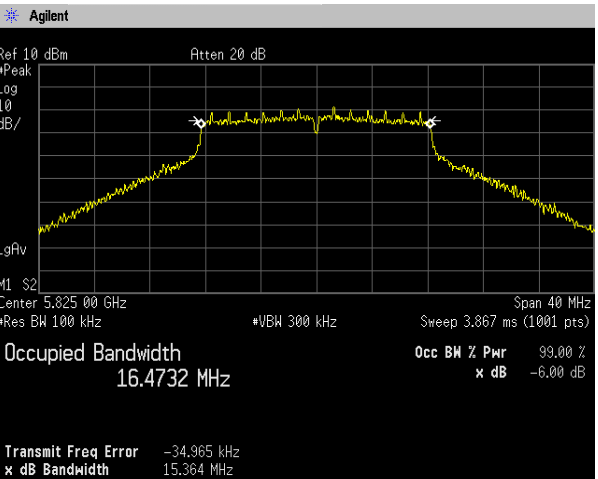
[IEEE802.11a]
(5.8 GHz Band)
Channel: 149



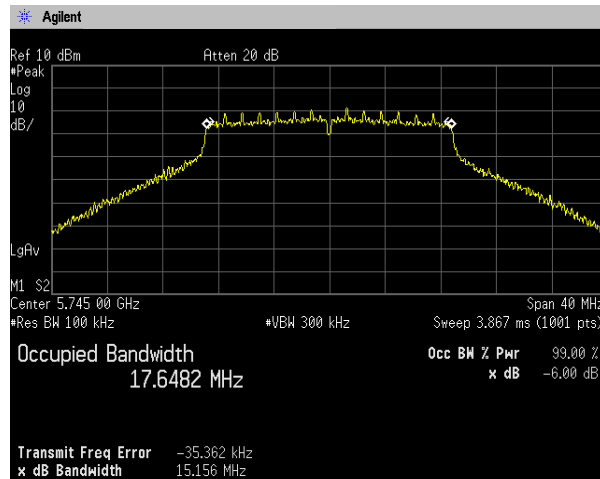
Channel: 157



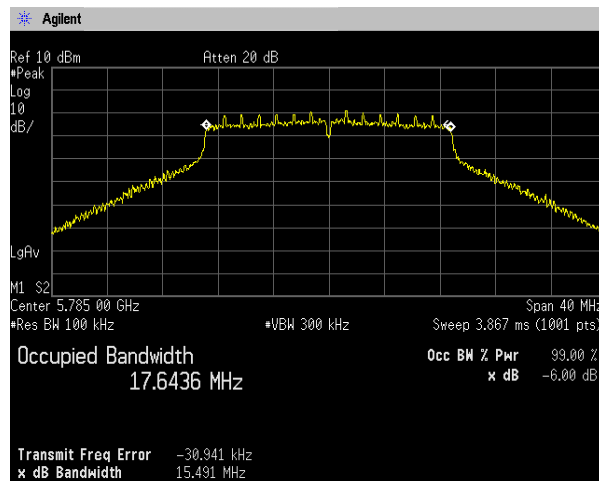
Channel: 165



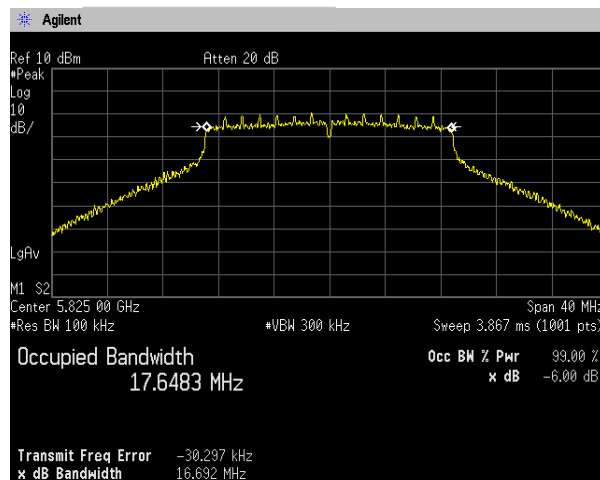
**[IEEE802.11n(HT20)]
(5.8 GHz Band)
Channel: 149**



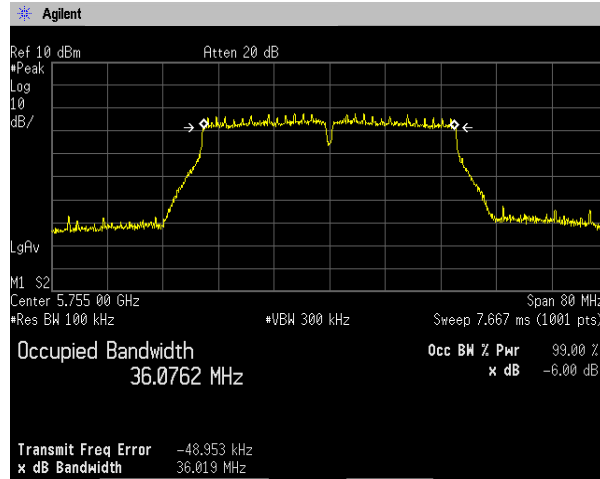
Channel: 157



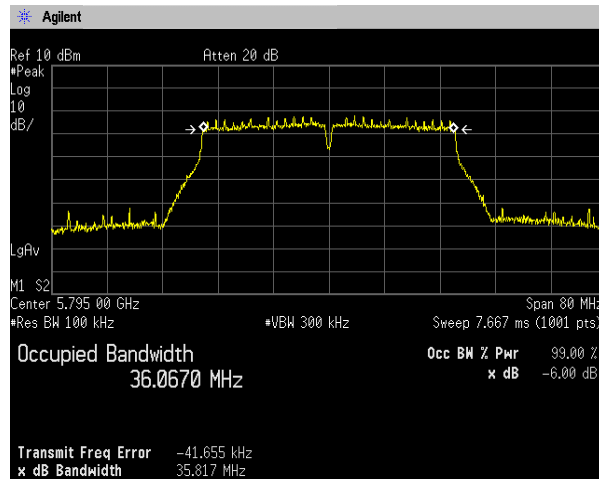
Channel: 165



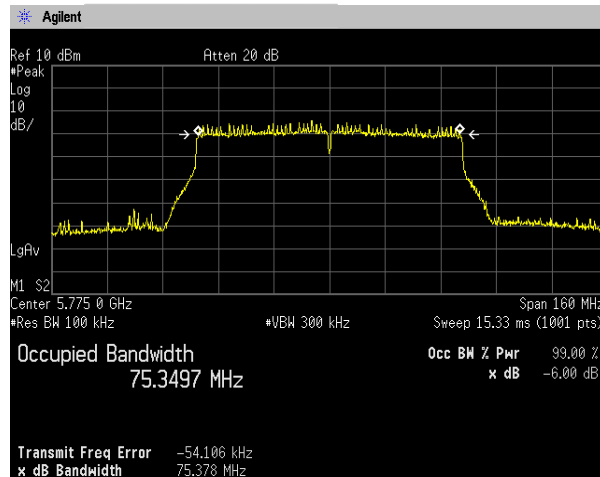
[IEEE802.11n(HT40)]
(5.8 GHz Band)
Channel: 151



Channel: 159



[IEEE802.11n(HT80)]
Channel: 155



4.3 Maximum Conducted Output Power

4.3.1 Measurement procedure

[FCC 15.407(a), KDB 789033 D02, Section E.2.b) Method SA-1, d)Method SA-2]

The peak power is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

The spectrum analyzer is set to;

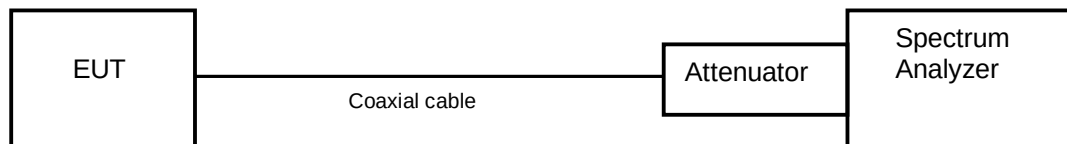
- RBW=1MHz, VBW=3MHz, Span=35MHz/70MHz/140MHz, Sweep=auto, Detector=RMS, Trace mode=Averaging

The EUT was set to operate with following conditions.

- 5.2GHz Band, 5.3GHz Band, 5.6GHz Band

The test mode of EUT is as follows.

- Tx mode
- Test configuration



4.3.2 Limit

- (1) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250mW provided the maximum antenna gain does not exceed 6 dBi.
- (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250mW or $11\text{dBm} + 10\log B$, where B is the 2 dB emission bandwidth in megahertz.
- (3) For the 5.725-5.85 GHz bands, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

<Output Power Limit Calculation>

Band	Mode	Power Limit (mW)	Calculated Limit (dBm)	Antenna Gain (dBi)	Determined Limit (dBm)
5.2GHz Band	802.11a	250	23.97	-2.7	23.97
	802.11n HT20				
	802.11n HT20				
	802.11ac HT80				

Band	Mode	Power Limit (mW)	Calculated Limit (dBm)	Antenna Gain (dBi)	Determined Limit (dBm)
		Least 26dBc BW (MHz)			
5.3GHz Band	802.11a	250	23.97	-0.3	23.97
		22.017	24.43		
	802.11n HT20	250	23.97		23.97
		22.740	24.57		
	802.11n HT20	250	23.97		23.97
		41.229	27.15		
	802.11ac HT80	250	23.97		23.97
		83.377	30.21		

Band	Mode	Power Limit (mW)	Calculated Limit (dBm)	Antenna Gain (dBi)	Determined Limit (dBm)
		Least 26dBc BW (MHz)			
5.6GHz Band	802.11a	250	23.97	1.3	23.97
		22.043	24.43		
	802.11n HT20	250	23.97		23.97
		22.309	24.48		
	802.11n HT20	250	23.97		23.97
		41.227	27.15		
	802.11ac HT80	250	23.97		23.97
		83.468	30.22		

Band	Mode	Power Limit (mW)	Calculated Limit (dBm)	Antenna Gain (dBi)	Determined Limit (dBm)
5.8GHz Band	802.11a	1000	30.00	1.5	30.00
	802.11n HT20				
	802.11n HT20				
	802.11ac HT80				

4.3.3 Measurement result

Date : 31-August-2020

Temperature : 24.9 [°C]

Humidity : 60.5 [%]

Test place : Shielded room No.4

Test engineer :

Tadahiro Seino

Mode	Channel	Frequency (MHz)	Reading (dBm)	Duty Cycle			DCF (dB)	Test Result (dBm)	Test Result (mW)
				On Time(ms)	On+Off Time(ms)	X			
802.11a	36	5180	11.19	1.344	1.382	0.973	0.121	11.311	13.524
	40	5200	11.22					11.341	13.618
	58	5240	11.23					11.351	13.649
	52	5260	11.12	1.340	1.380	0.971	0.128	11.248	13.328
	56	5280	11.28					11.408	13.828
	64	5320	11.13					11.258	13.359
	100	5500	11.07	1.344	1.382	0.973	0.121	11.191	13.156
	116	5580	11.15					11.271	13.400
	140	5700	11.51					11.631	14.558
	144	5720	11.49					11.611	14.491
	149	5745	11.59					11.698	14.786
	157	5785	11.50	1.344	1.378	0.975	0.108	11.608	14.483
	165	5825	11.52					11.628	14.550

Note1: $X = \text{On time} / (\text{On} + \text{Off time})$, $\text{DCF} = 10 \log (1/x)$ Note2: $\text{Test Result} = \text{Reading} + \text{DCF}$

Mode	Channel	Frequency (MHz)	Reading (dBm)	Duty Cycle			DCF (dB)	Test Result (dBm)	Test Result (mW)
				On Time(ms)	On+Off Time(ms)	X			
802.11n (20MHz)	36	5180	10.89	1.258	1.298	0.969	0.136	11.026	12.665
	40	5200	11.04					11.176	13.110
	58	5240	10.89					11.026	12.665
	52	5260	10.85	1.260	1.298	0.971	0.129	10.979	12.529
	56	5280	10.99					11.119	12.939
	64	5320	10.95					11.079	12.820
	100	5500	10.83	1.258	1.294	0.972	0.123	10.953	12.452
	116	5580	10.81					10.933	12.395
	140	5700	11.07					11.193	13.160
	144	5720	11.06					11.183	13.130
	149	5745	11.59					11.712	14.833
	157	5785	11.50	1.260	1.296	0.972	0.122	11.622	14.529
	165	5825	11.52					11.642	14.596

Note: $X = \text{On time} / (\text{On} + \text{Off time})$, $\text{DCF} = 10 \log (1/x)$ Note2: $\text{Test Result} = \text{Reading} + \text{DCF}$

Mode	Channel	Frequency (MHz)	Reading (dBm)	Duty Cycle			DCF (dB)	Test Result (dBm)	Test Result (mW)
				On Time(ms)	On+Off Time(ms)	X			
802.11n (40MHz)	38	5190	11.55	0.628	0.664	0.946	0.242	11.792	15.108
	46	5230	11.69					11.932	15.603
	54	5270	11.51	0.628	0.666	0.943	0.255	11.765	15.015
	62	5310	11.53					11.785	15.084
	102	5510	11.40	0.627	0.664	0.944	0.249	11.649	14.618
	110	5550	11.25					11.499	14.122
	134	5670	11.89					12.139	16.364
	142	5710	11.73					11.979	15.773
	151	5755	12.02	0.627	0.665	0.943	0.256	12.276	16.887
	159	5795	11.98					12.236	16.732

Note: $X = \text{On time} / (\text{On} + \text{Off time})$, $\text{DCF} = 10 \log (1/x)$

Note2: $\text{Test Result} = \text{Reading} + \text{DCF}$

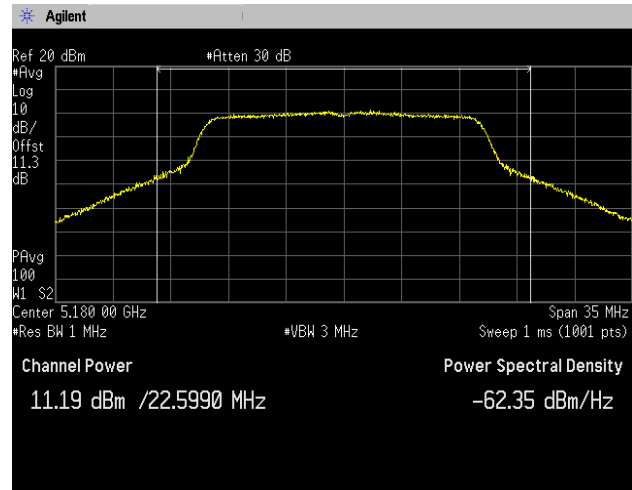
Mode	Channel	Frequency (MHz)	Reading (dBm)	Duty Cycle			DCF (dB)	Test Result (dBm)	Test Result (mW)
				On Time(ms)	On+Off Time(ms)	X			
802.11ac (80MHz)	42	5210	11.28	0.315	0.352	0.896	0.475	11.755	14.979
	58	5290	11.32	0.315	0.352	0.896	0.475	11.795	15.117
	106	5530	11.04	0.315	0.352	0.894	0.488	11.528	14.216
	122	5610	11.34	0.315	0.353	0.894	0.488	11.828	15.235
	138	5690	11.59	0.316	0.353	0.895	0.481	12.071	16.112
	155	5775	11.80	0.315	0.352	0.896	0.475	12.275	16.884

Note: $X = \text{On time} / (\text{On} + \text{Off time})$, $\text{DCF} = 10 \log (1/x)$

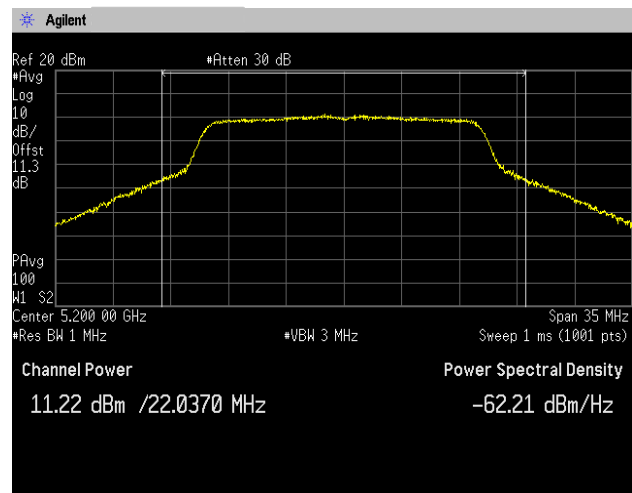
Note2: $\text{Test Result} = \text{Reading} + \text{DCF}$

4.3.4 Trace data

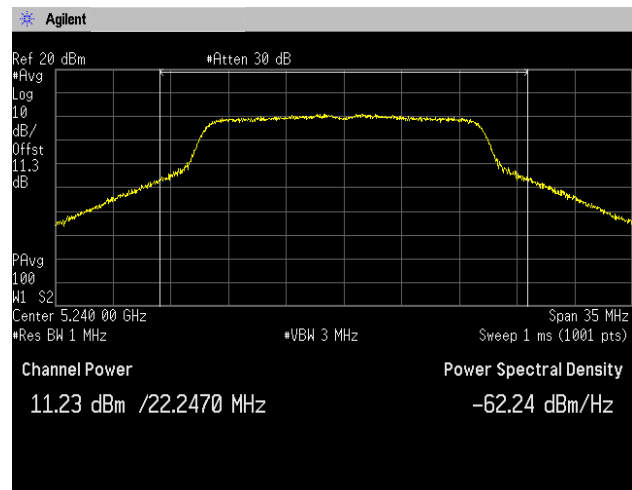
[IEEE802.11a]
(5.2GHz Band)
Channel: 36



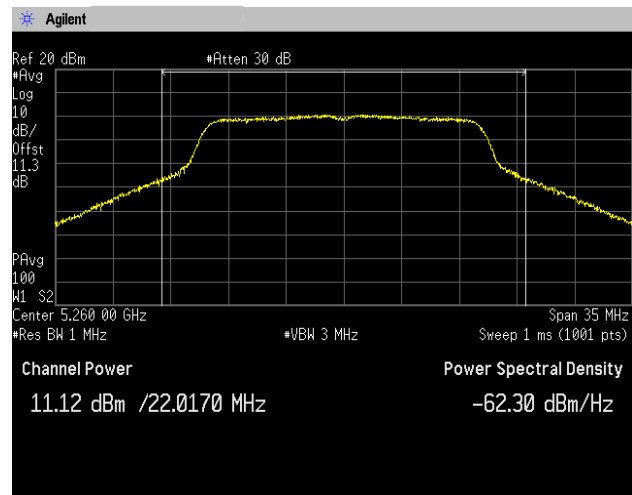
Channel: 40



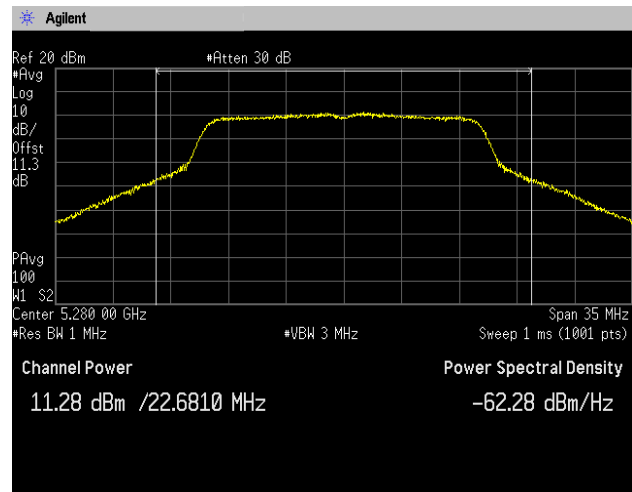
Channel: 48



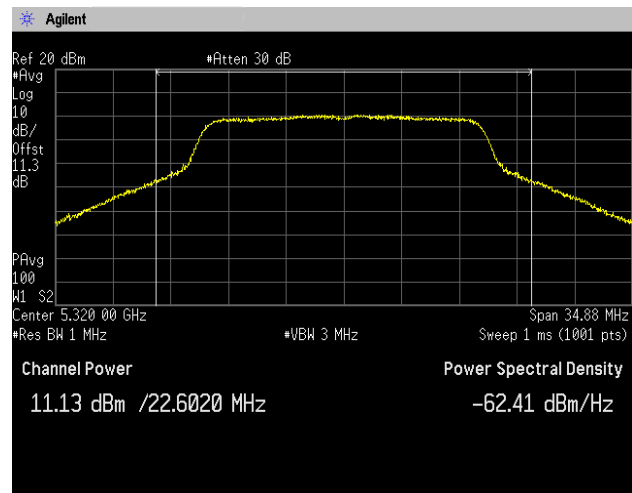
(5.3GHz Band)
Channel: 52



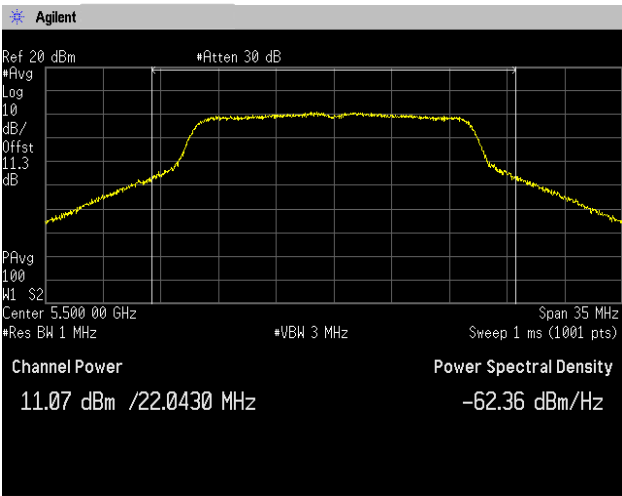
Channel: 56



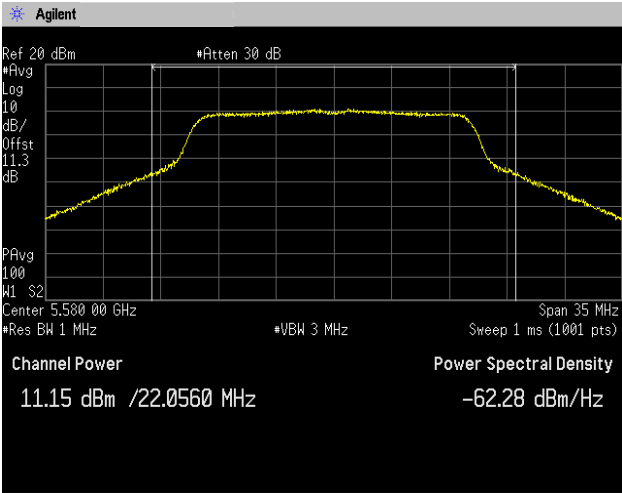
Channel: 64



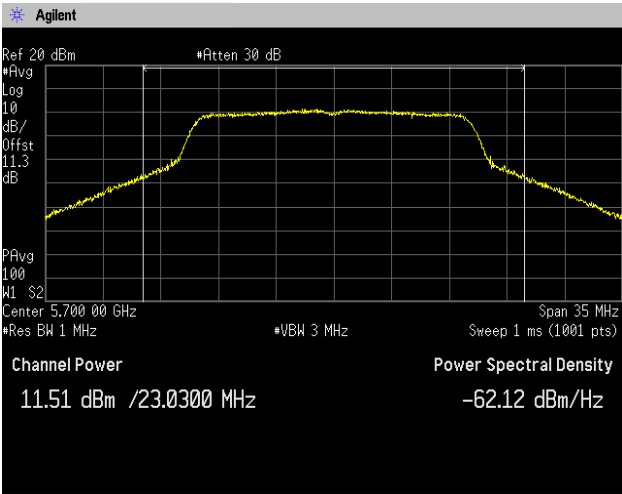
(5.6GHz Band)
Channel: 100



Channel: 116



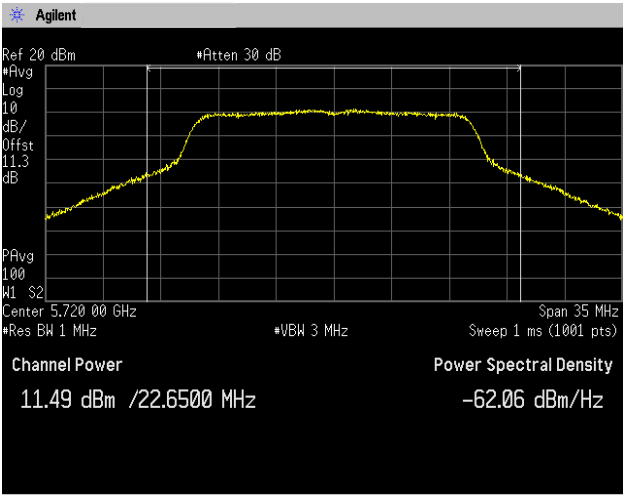
Channel: 140



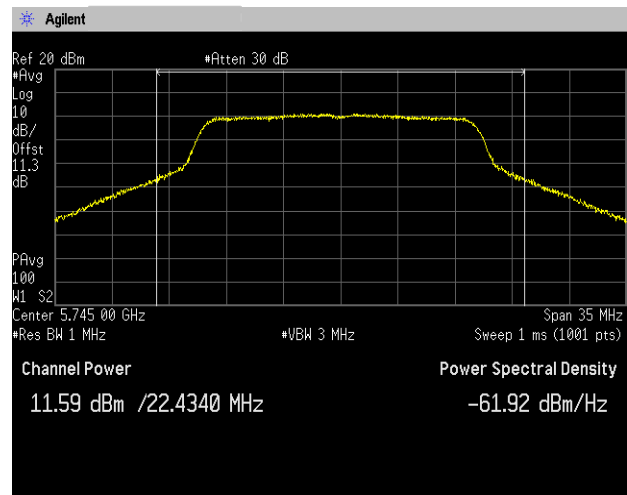


Japan

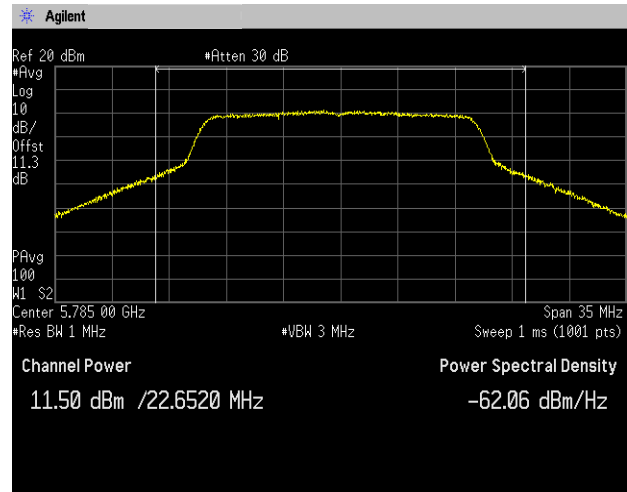
Channel: 144



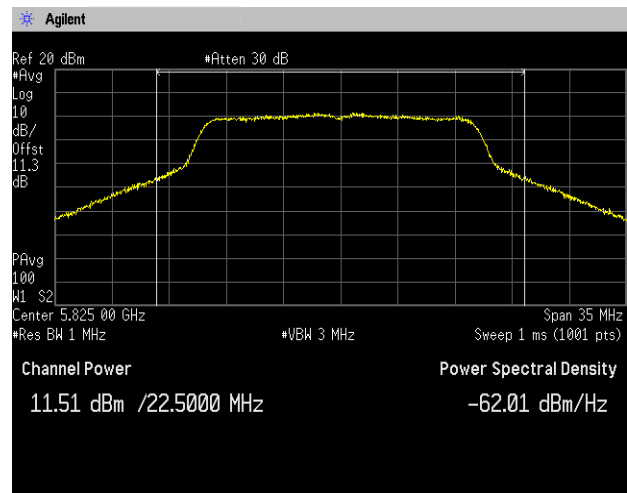
(5.8GHz Band)
Channel: 149



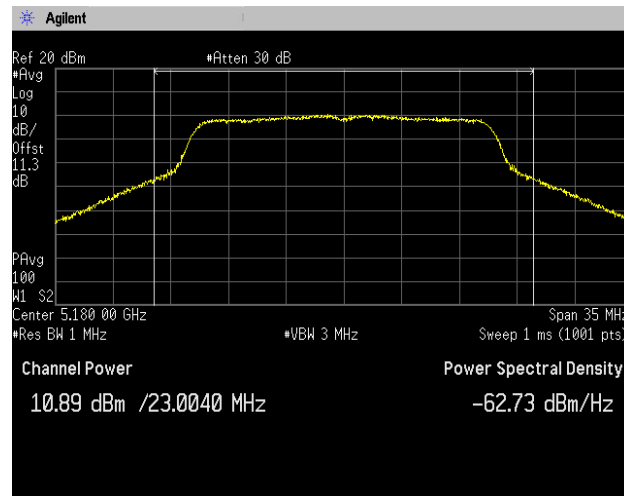
Channel: 157



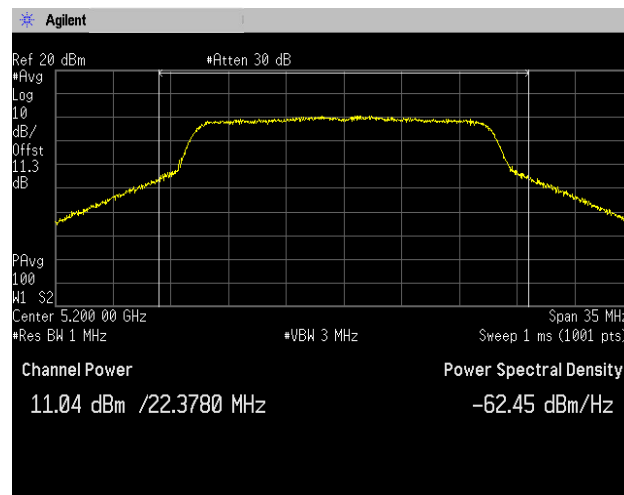
Channel: 165



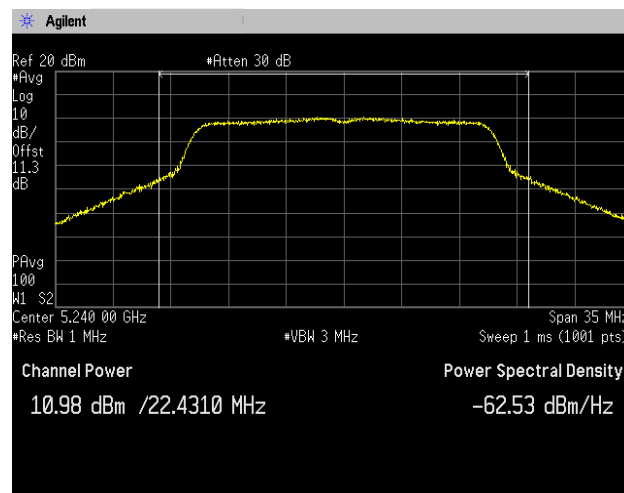
**[IEEE802.11n (HT20)]
(5.2GHz Band)
Channel: 36**



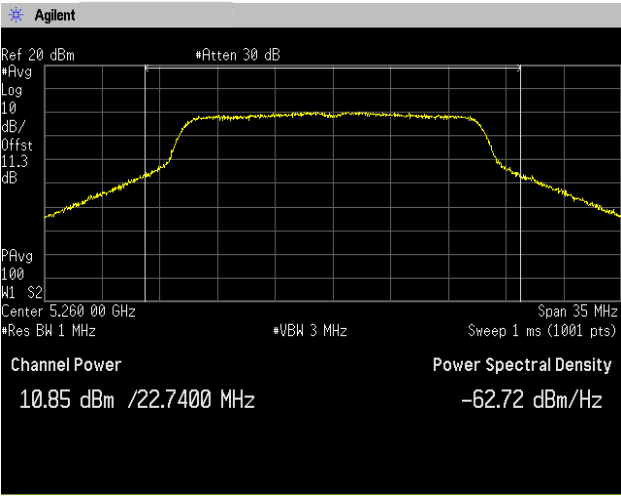
Channel: 40



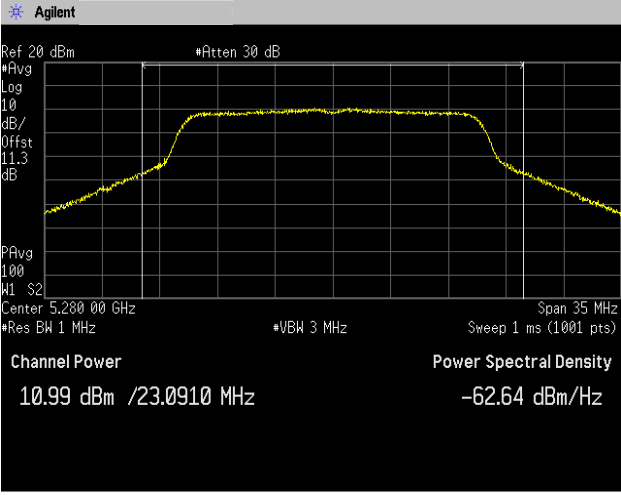
Channel: 48



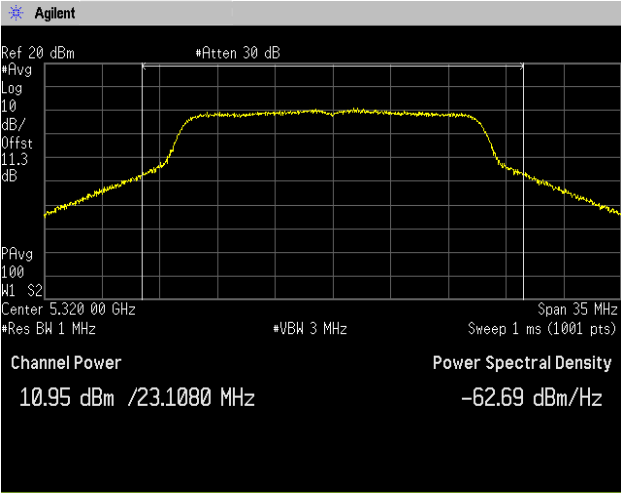
(5.3GHz Band)
Channel: 52



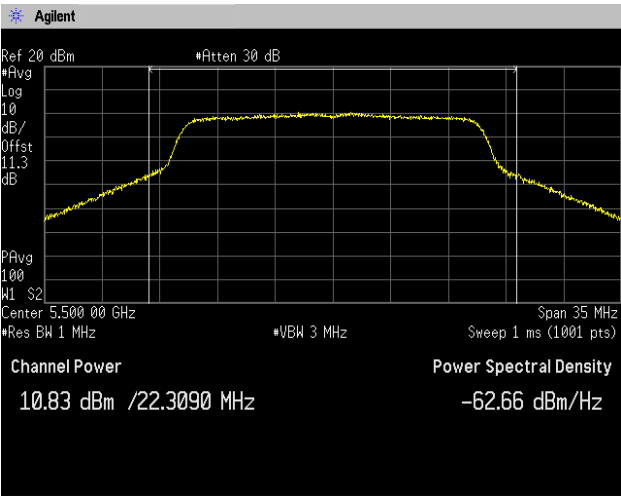
Channel: 56



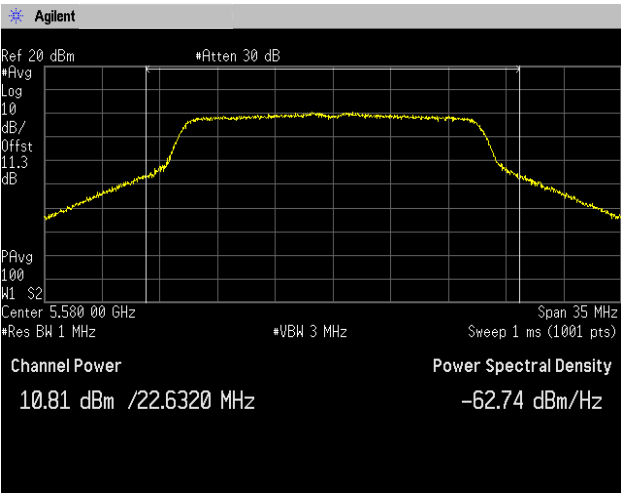
Channel: 64



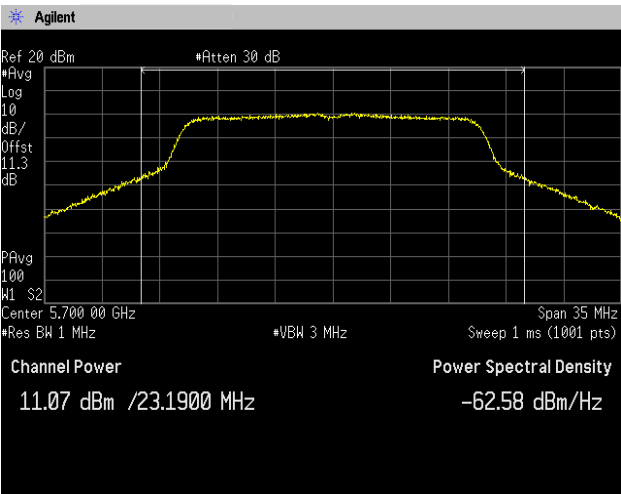
(5.6GHz Band)
Channel: 100



Channel: 116



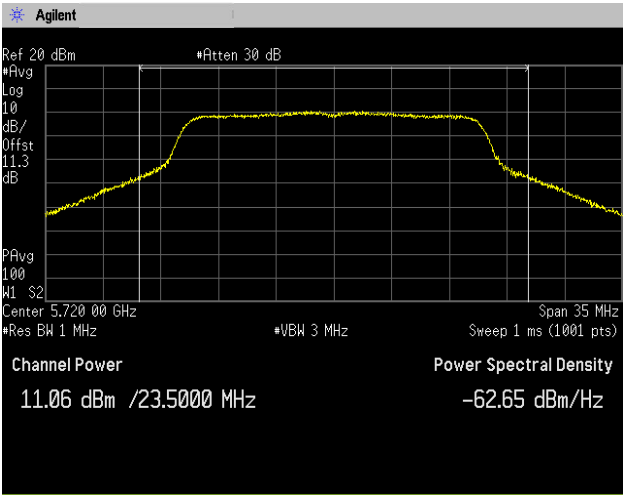
Channel: 140



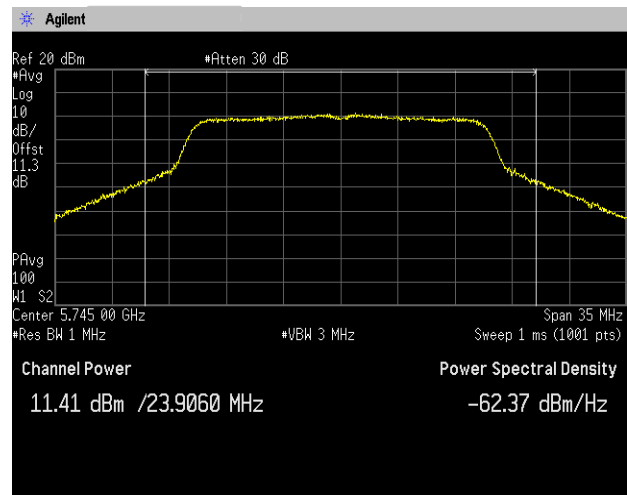


Japan

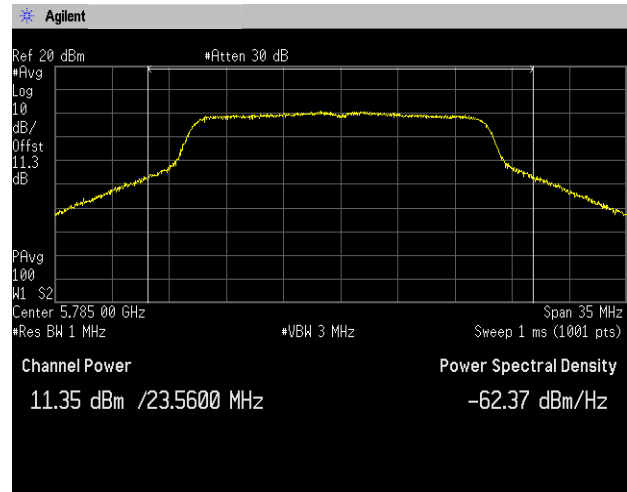
Channel: 144



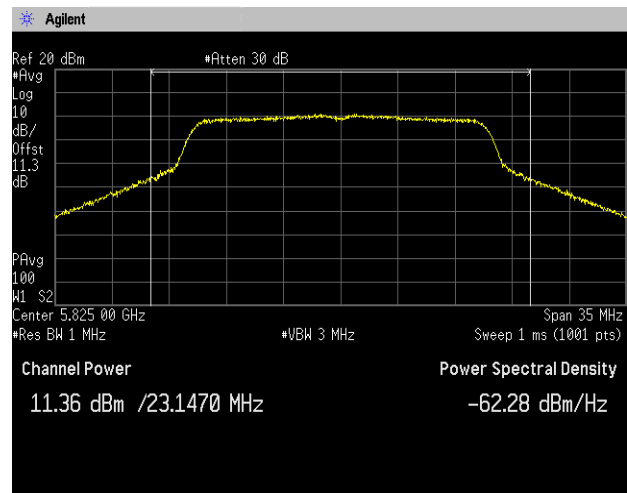
(5.8GHz Band)
Channel: 149



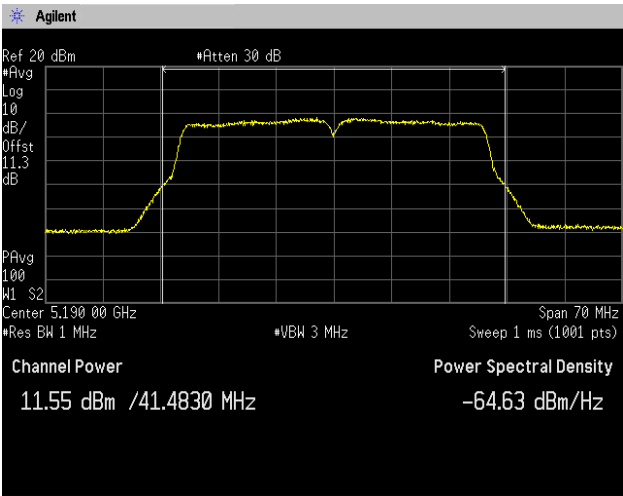
Channel: 157



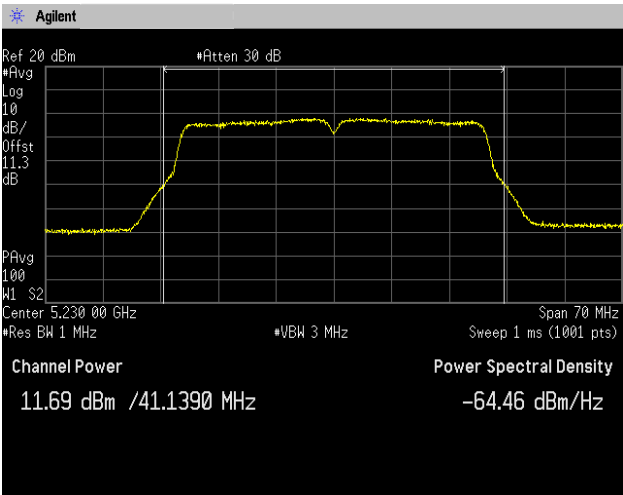
Channel: 165



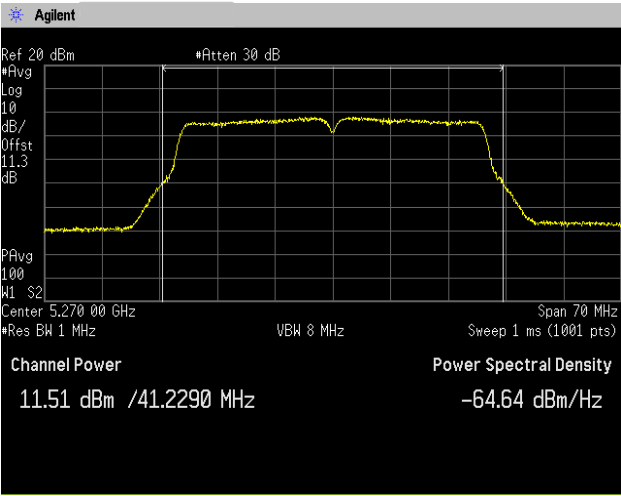
**[IEEE802.11n (HT40)]
(5.2GHz Band)
Channel: 38**



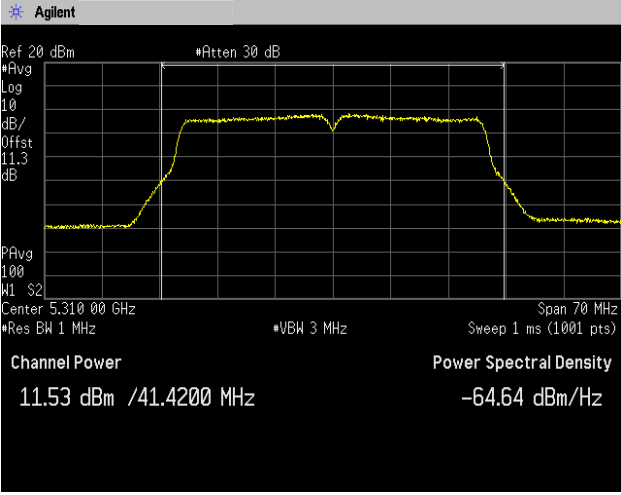
Channel: 46



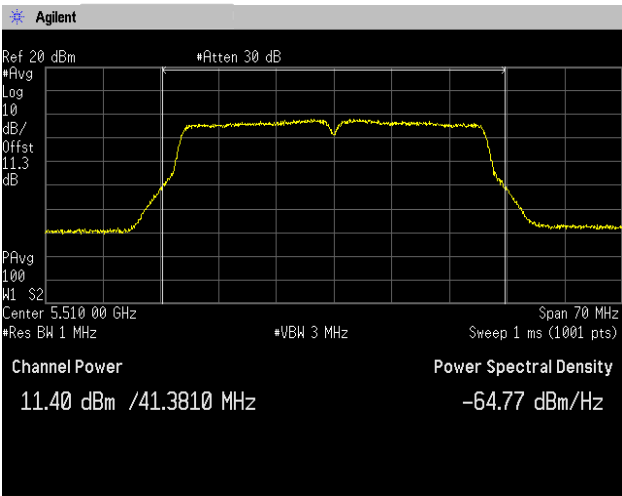
(5.3GHz Band)
Channel: 54



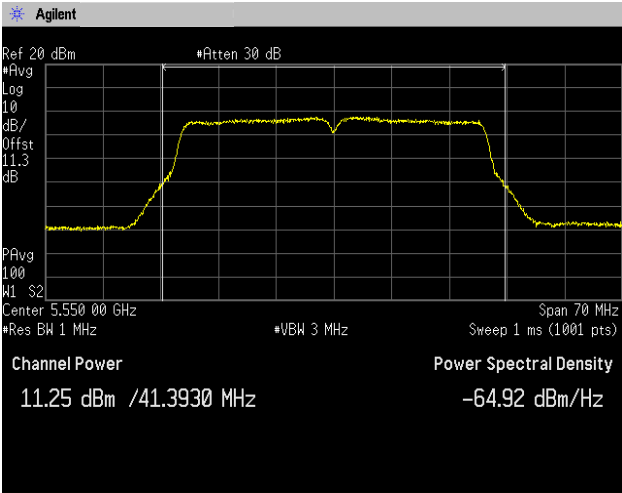
Channel: 62



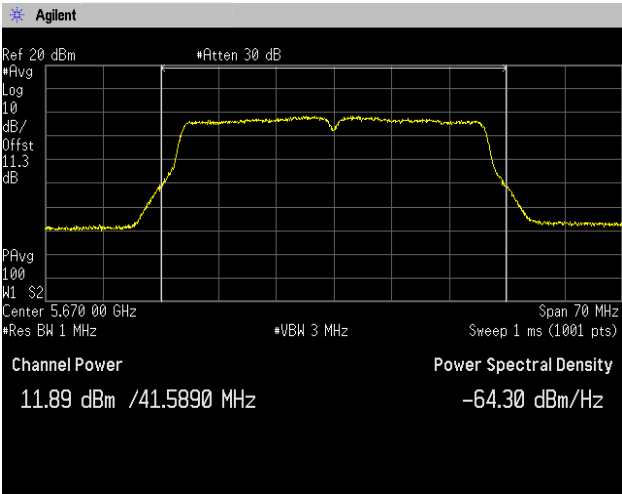
(5.6GHz Band)
Channel: 102



Channel: 110



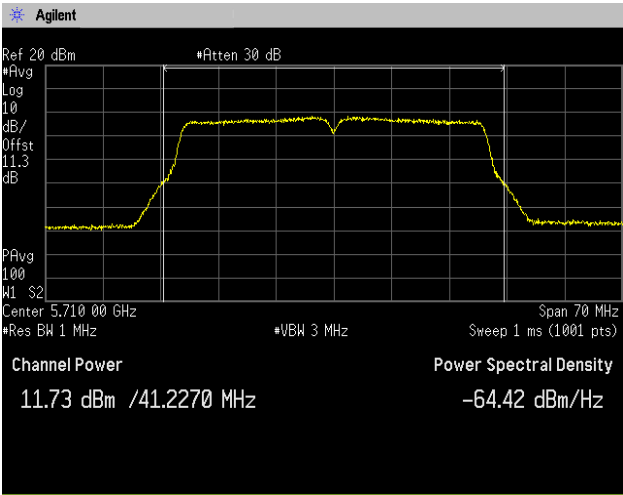
Channel: 134



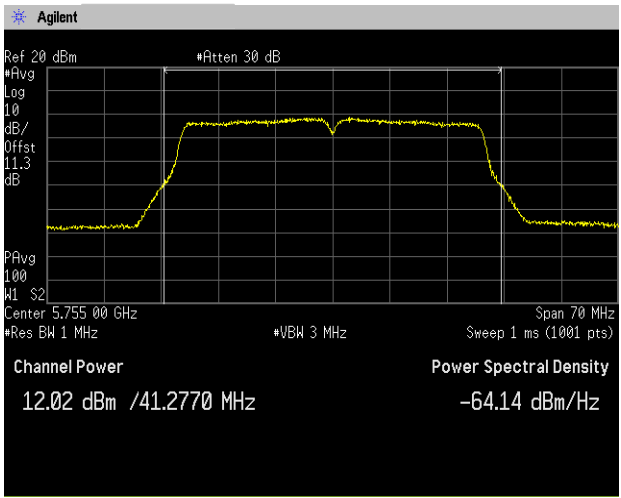


Japan

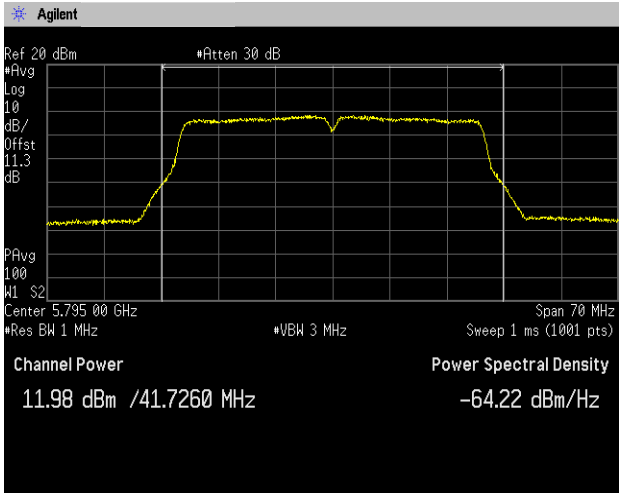
Channel: 142



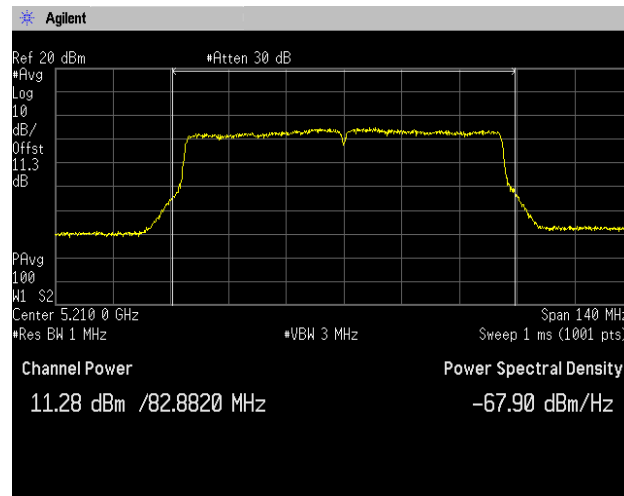
(5.8GHz Band)
Channel: 151



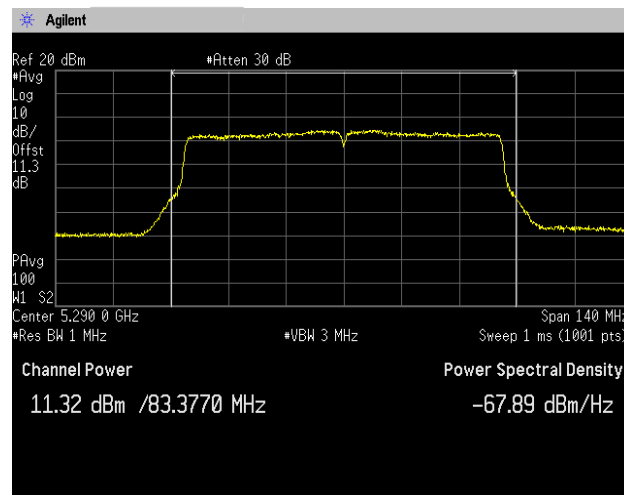
Channel: 159



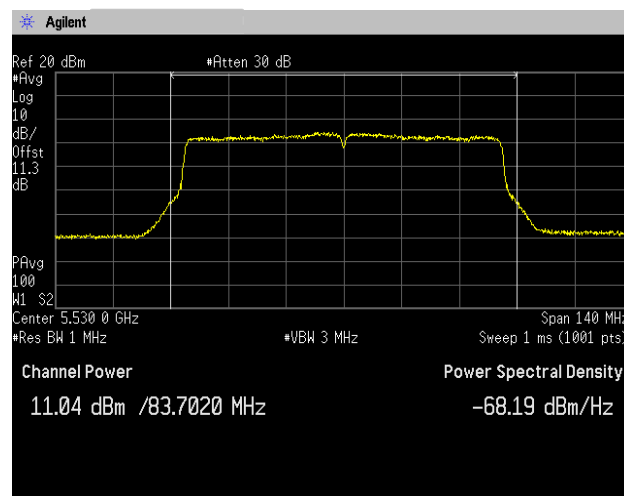
[IEEE802.11ac (HT80)]
(5.2 GHz Band)
Channel: 42



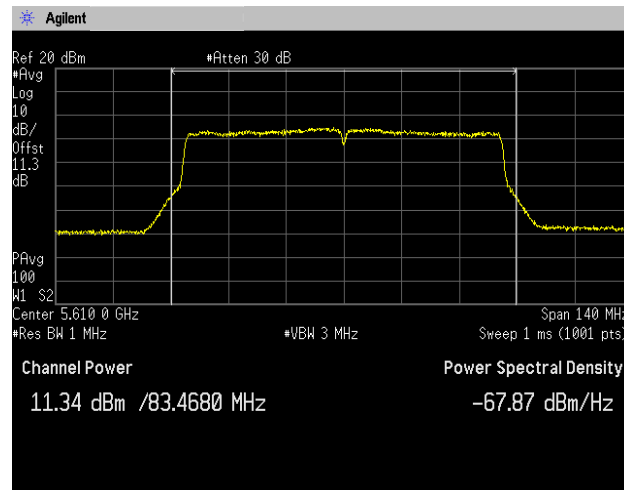
(5.3GHz Band)
Channel: 58



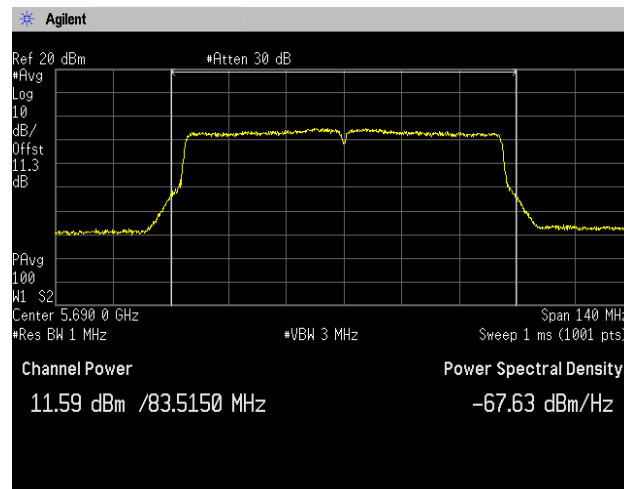
(5.6 GHz Band)
Channel: 106



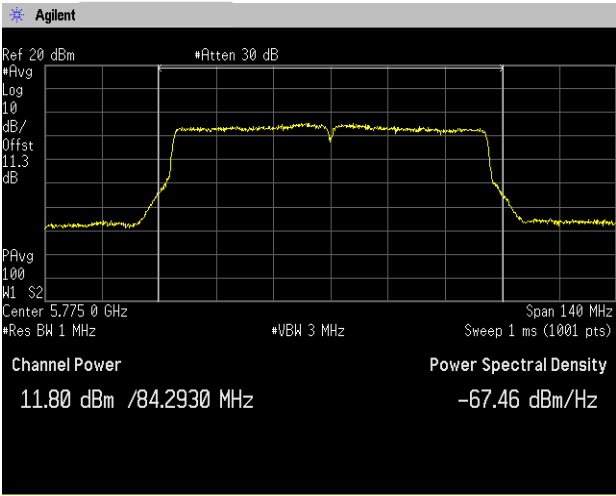
Channel: 122



Channel: 138



(5.8GHz Band)
Channel: 155



4.4 Peak Power Spectral Density

4.4.1 Measurement procedure

[FCC 15.407(a), KDB 789033 D02, Section F]

The peak power spectral density is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

The spectrum analyzer is set to;

- RBW=1 MHz, VBW=3 MHz, Span=25 MHz/50 MHz/100 MHz, Sweep=Auto, Detector=RMS, Trace mode=Averaging

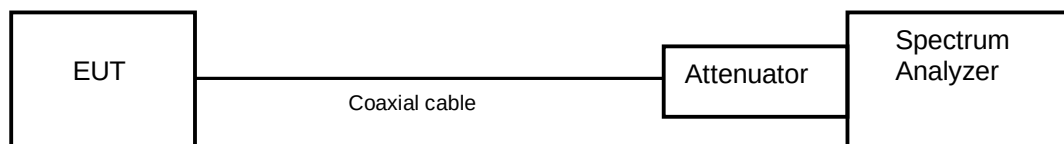
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band

The test mode of EUT is as follows.

- Tx mode

- Test configuration



4.4.2 Limit

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

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

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

However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirection applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

<Peak Power Spectral Density Limit Calculation>

Band	Antenna Gain (dBi)	Limit
5.2 GHz Band	-2.7	10.8 dBm/MHz
5.3 GHz Band	-0.3	10.8 dBm/MHz
5.6 GHz Band	1.3	13.0 dBm/MHz
5.8 GHz Band	1.5	12.5 dBm/MHz

4.4.3 Measurement result

Date : 24-August-2021
 Temperature : 25.8 [°C]
 Humidity : 63.9 [%]
 Test place : Shielded room No.4

Test engineer :
Tadahiro Seino

Date : 31-August-2021
 Temperature : 24.1 [°C]
 Humidity : 59.4 [%]
 Test place : Shielded room No.4

Test engineer :
Tadahiro Seino

Mode	Channel	Frequency (MHz)	Reading (dBm)	Duty Cycle			DCF (dB)	Test Result (dBm)
				On Time(ms)	On+Off Time(ms)	X		
802.11a	36	5180	0.957	1.344	1.382	0.973	0.121	1.078
	40	5200	0.990					1.111
	48	5240	1.108					1.229
	52	5260	0.993	1.340	1.380	0.971	0.128	1.121
	56	5280	1.075					1.203
	64	5320	1.059					1.187
	100	5500	0.771	1.344	1.382	0.973	0.121	0.892
	116	5580	1.153					1.274
	140	5700	1.050					1.171
	144	5720	1.063					1.184
	149	5745	1.366	1.344	1.378	0.975	0.108	1.474
	157	5785	1.513					1.621
	165	5825	1.469					1.577

Note: X = On time / (On + Off time), DCF=10log (1/x)

Note 2: Test Result = Reading + DCF

Mode	Channel	Frequency (MHz)	Reading (dBm)	Duty Cycle			DCF (dB)	Test Result (dBm)
				On Time(ms)	On+Off Time(ms)	X		
802.11n (20MHz)	36	5180	0.469	1.258	1.298	0.969	0.136	0.605
	40	5200	0.686					0.822
	48	5240	0.518					0.654
	52	5260	0.542	1.260	1.298	0.971	0.129	0.671
	56	5280	1.033					1.162
	64	5320	0.521					0.650
	100	5500	0.614	1.258	1.294	0.972	0.123	0.737
	116	5580	0.759					0.882
	140	5700	0.602					0.725
	144	5720	0.717	1.260	1.296	0.972	0.122	0.840
	149	5745	1.180					1.302
	157	5785	0.958					1.080
	165	5825	1.042					1.164

Note: X = On time / (On + Off time), DCF=10log (1/x)

Note 2: Test Result = Reading + DCF

Mode	Channel	Frequency (MHz)	Reading (dBm)	Duty Cycle			DCF (dB)	Test Result (dBm)
				On Time(ms)	On+Off Time(ms)	X		
802.11n (40MHz)	38	5190	-1.706	0.628	0.664	0.946	0.242	-1.464
	46	5230	-1.410					-1.168
	54	5270	-1.428					-1.173
	62	5310	-1.977	0.628	0.666	0.943	0.255	-1.722
	102	5510	-1.967					-1.718
	110	5550	-2.342					-2.093
	134	5670	-1.336	0.627	0.664	0.944	0.249	-1.087
	142	5710	-1.755					-1.506
	151	5755	-1.378					-1.122
	159	5795	-1.402	0.627	0.665	0.943	0.256	-1.146

Note: X = On time / (On + Off time), DCF=10log (1/x)

Note 2: Test Result = Reading + DCF

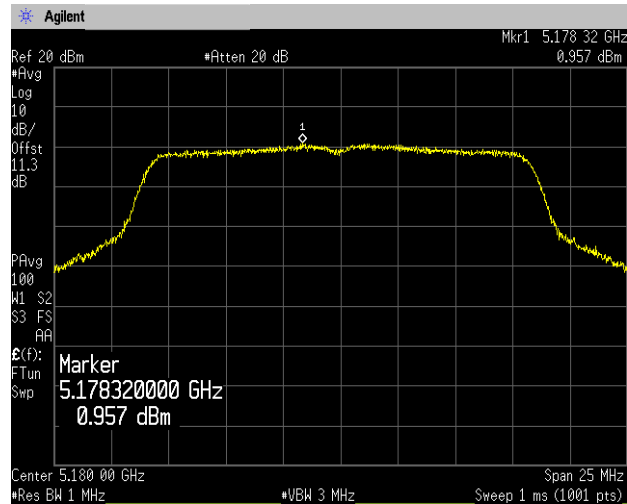
Mode	Channel	Frequency (MHz)	Reading (dBm)	Duty Cycle			DCF (dB)	Test Result (dBm)
				On Time(ms)	On+Off Time(ms)	X		
802.11ac (80MHz)	42	5210	-8.422	0.315	0.352	0.896	0.475	-7.947
	58	5290	-4.945	0.315	0.352	0.896	0.475	-4.470
	106	5530	-5.251	0.315	0.352	0.894	0.488	-4.763
	122	5610	-4.998	0.315	0.353	0.894	0.488	-4.510
	138	5690	-4.962	0.316	0.353	0.895	0.481	-4.481
	155	5775	-4.604	0.315	0.352	0.896	0.475	-4.129

Note: $X = \text{On time} / (\text{On} + \text{Off time})$, $\text{DCF} = 10 \log (1/x)$

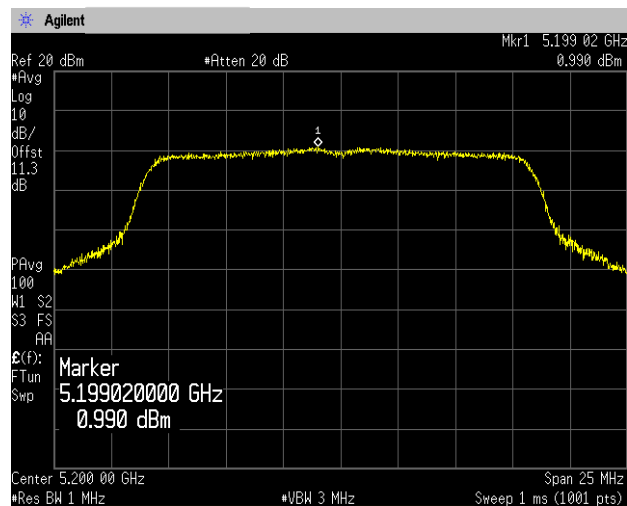
Note 2: Test Result = Reading + DCF

4.4.4 Trace data

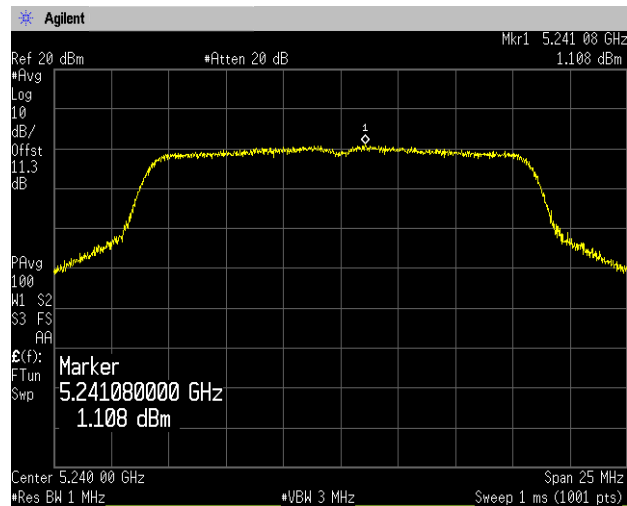
[IEEE802.11a]
(5.2 GHz Band)
Channel: 36



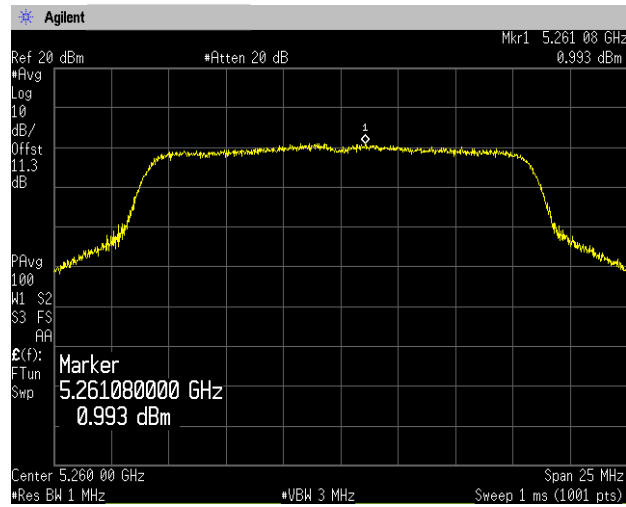
Channel: 40



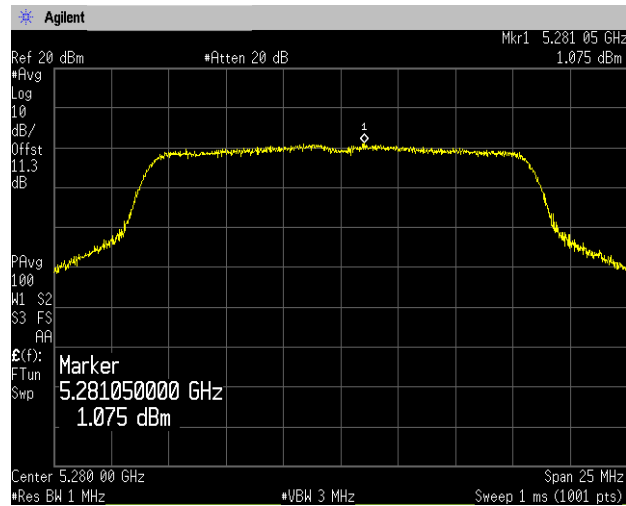
Channel: 48



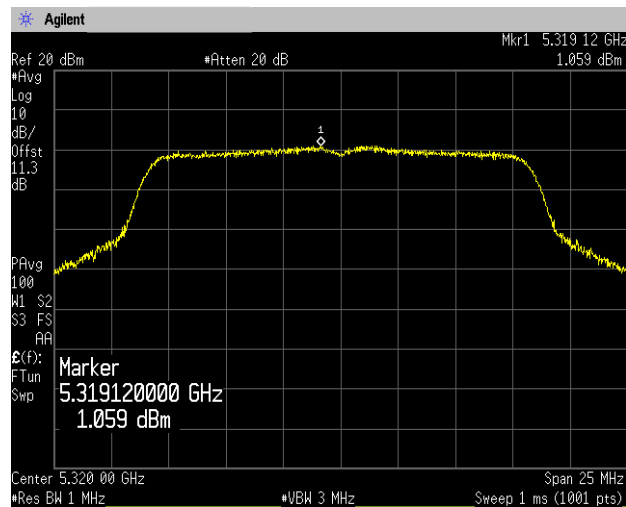
(5.3 GHz Band)
Channel: 52



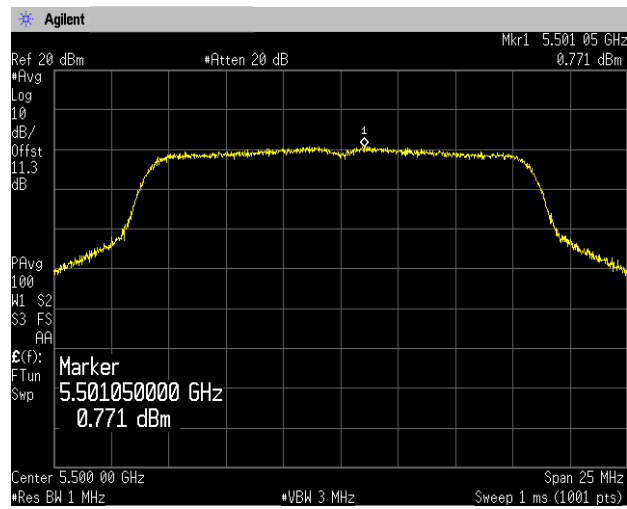
Channel: 56



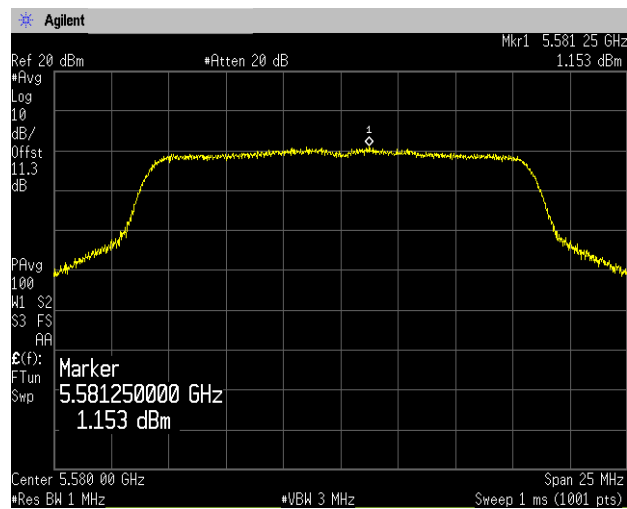
Channel: 64



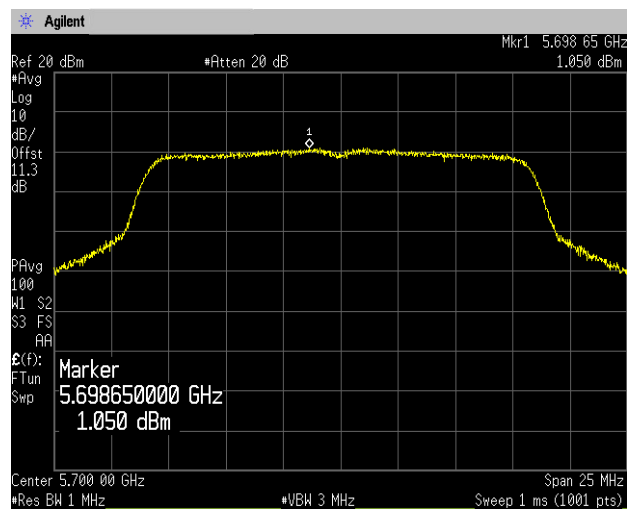
(5.6 GHz Band)
Channel: 100



Channel: 116



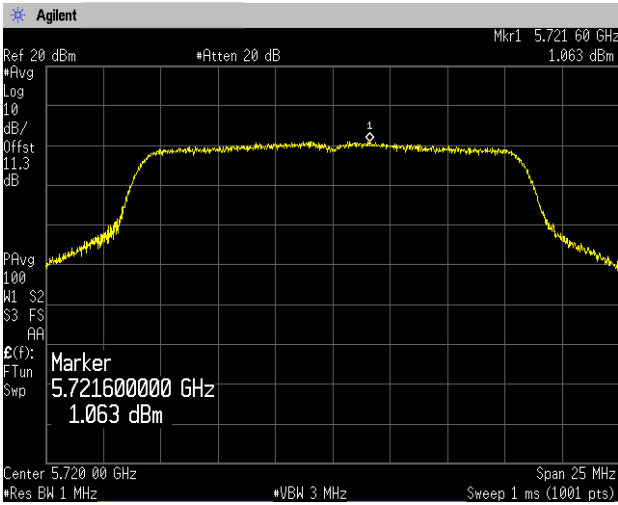
Channel: 140



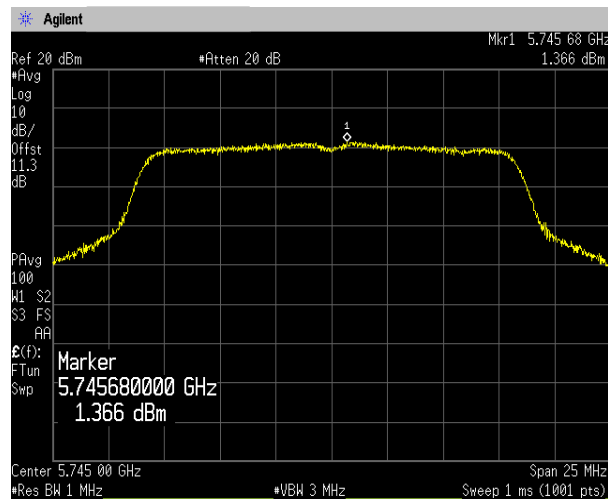


Japan

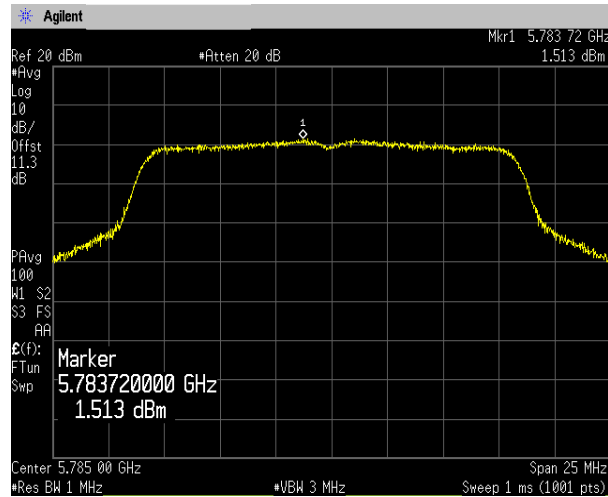
Channel: 144



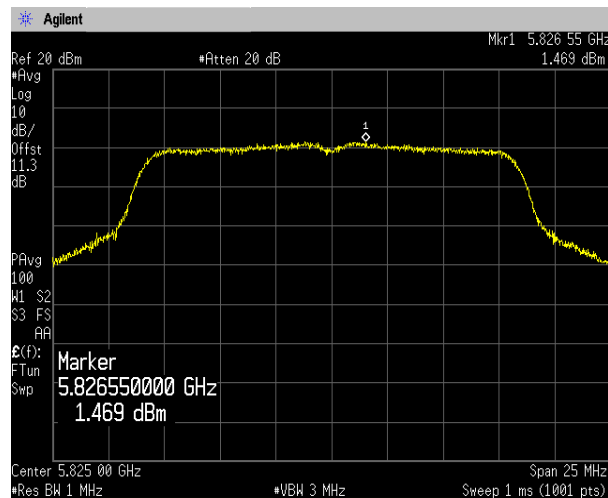
(5.8 GHz Band)
Channel: 149



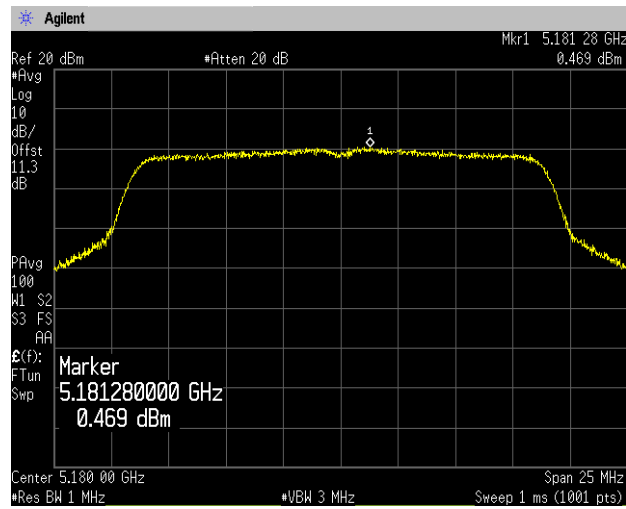
Channel: 157



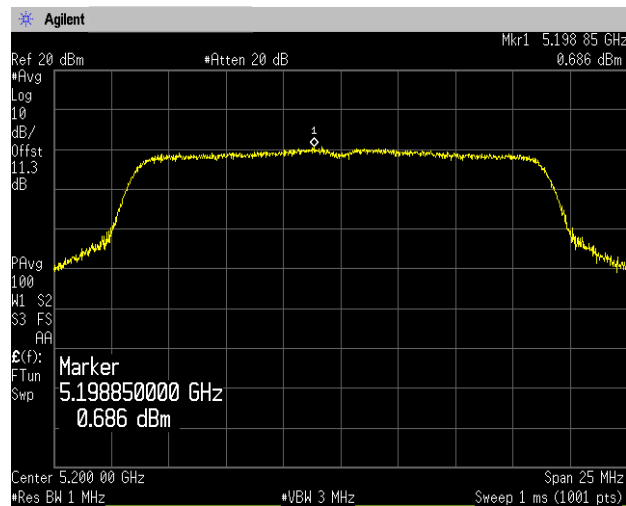
Channel: 165



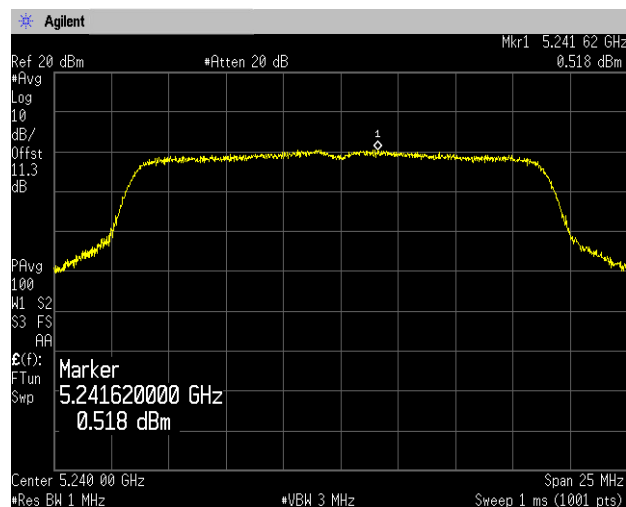
**[IEEE802.11n (HT20)]
(5.2 GHz Band)
Channel: 36**



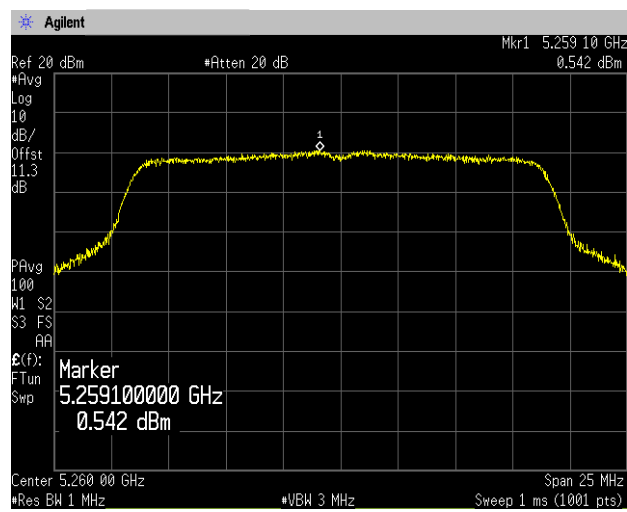
Channel: 40



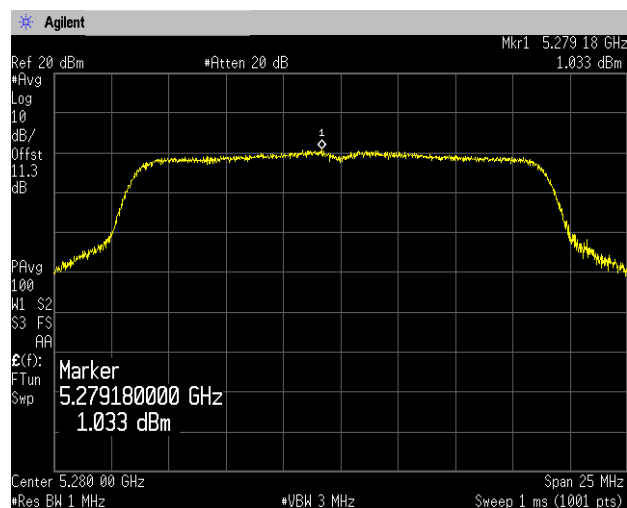
Channel: 48



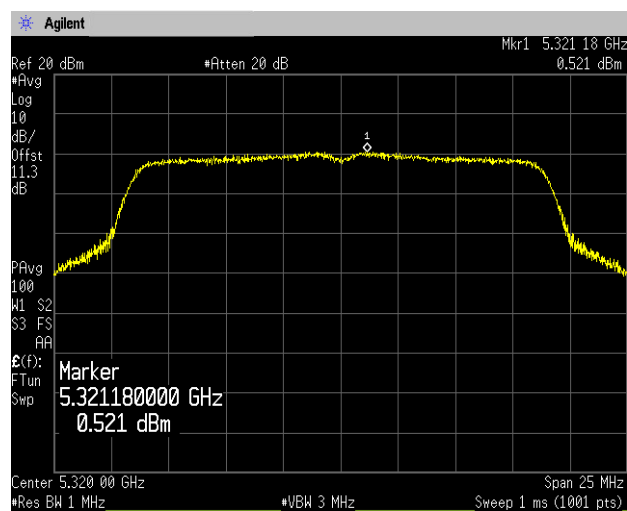
(5.3 GHz Band)
Channel: 52



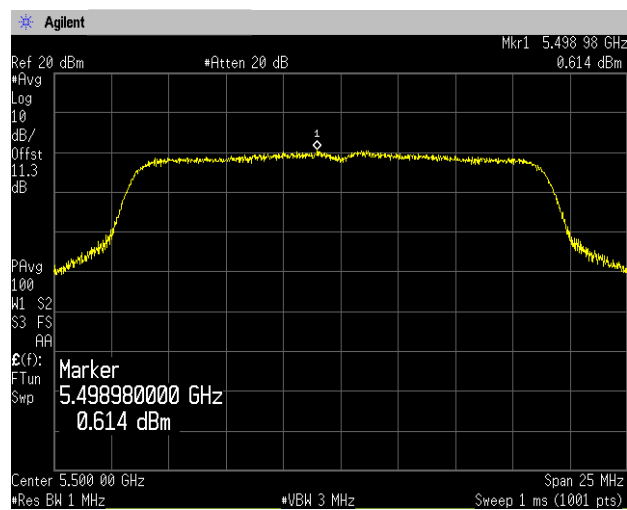
Channel: 56



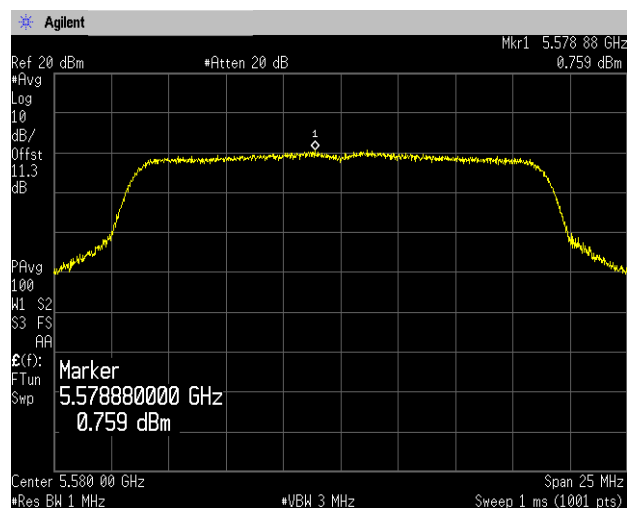
Channel: 64



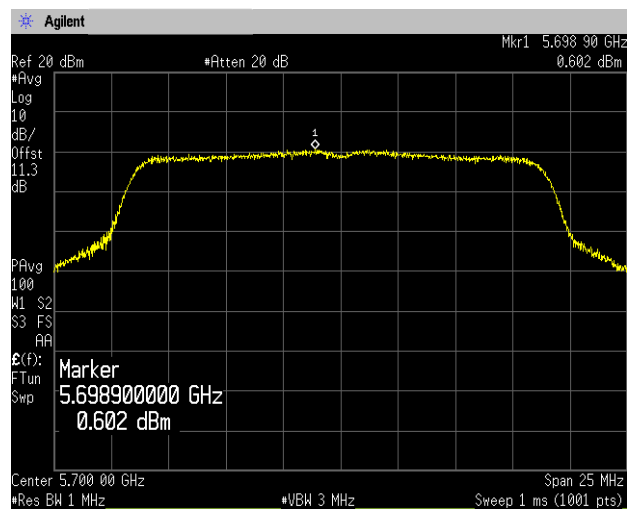
(5.6 GHz Band)
Channel: 100



Channel: 116



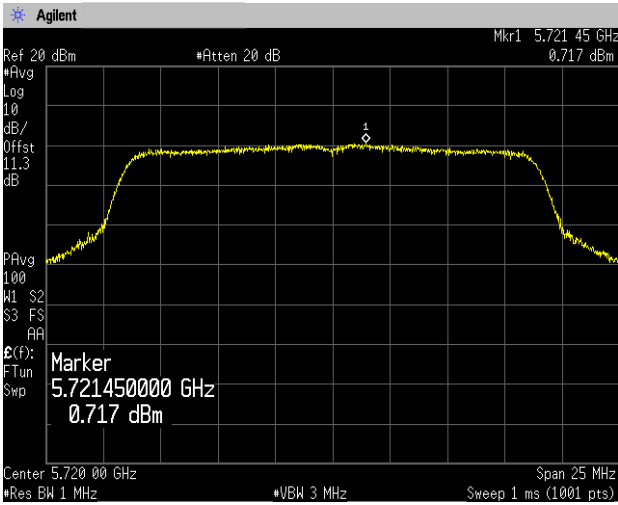
Channel: 140



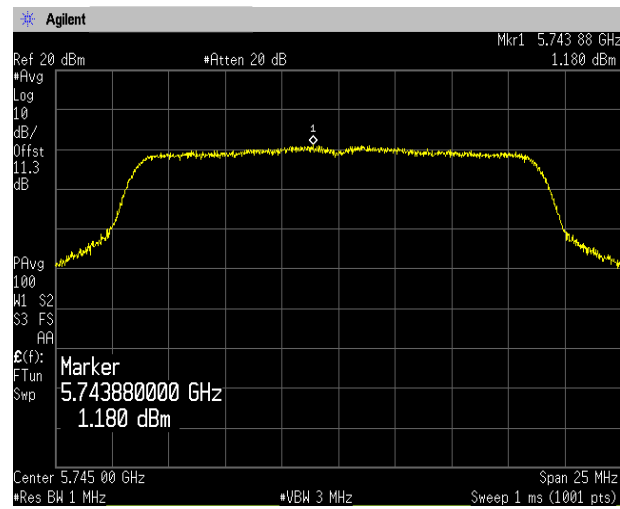


Japan

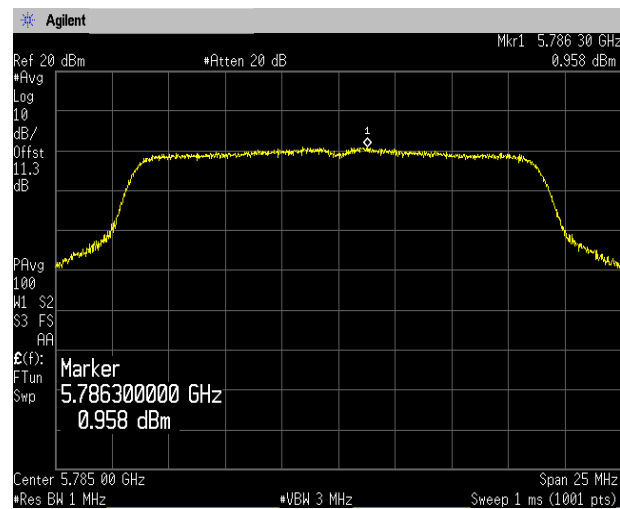
Channel: 144



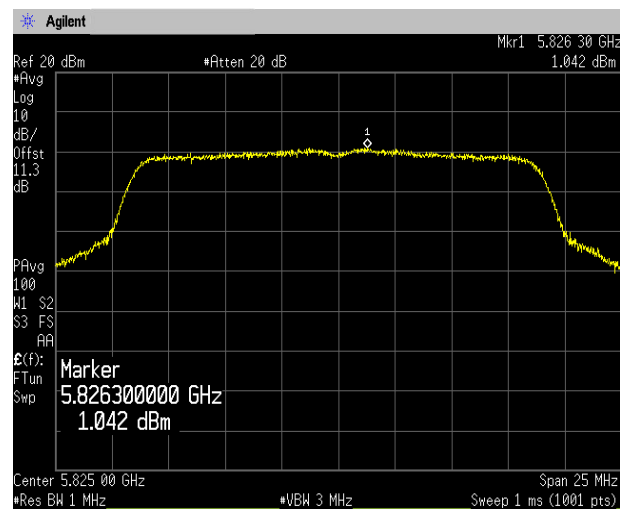
(5.8 GHz Band)
Channel: 149



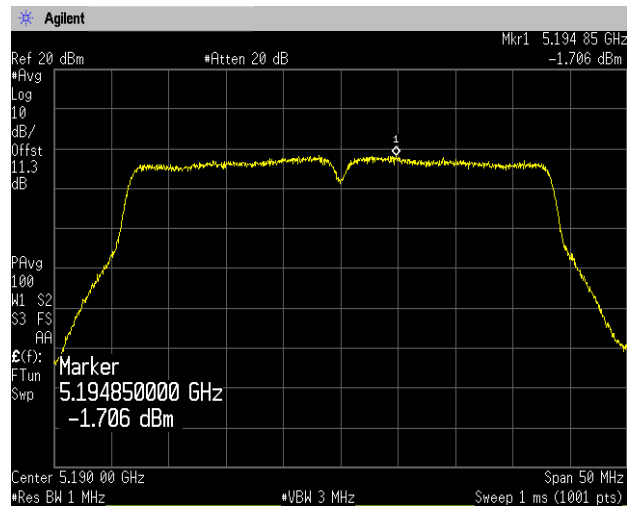
Channel: 157



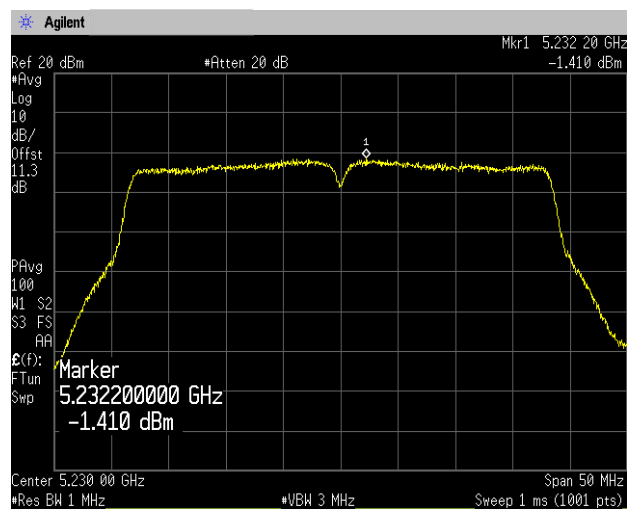
Channel: 165



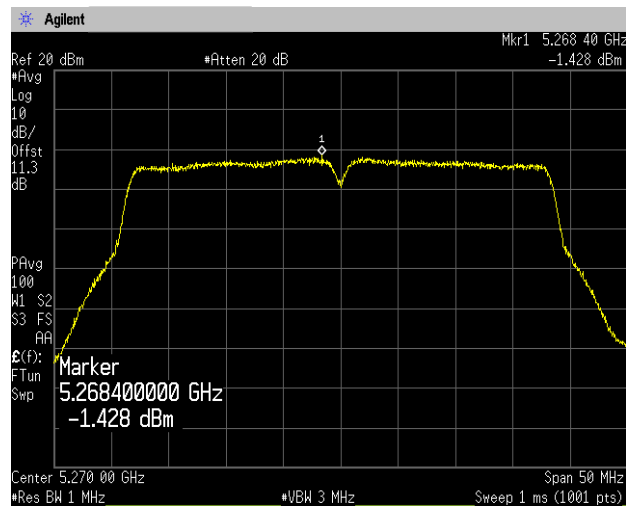
**[IEEE802.11n (HT40)]
(5.2 GHz Band)
Channel: 38**



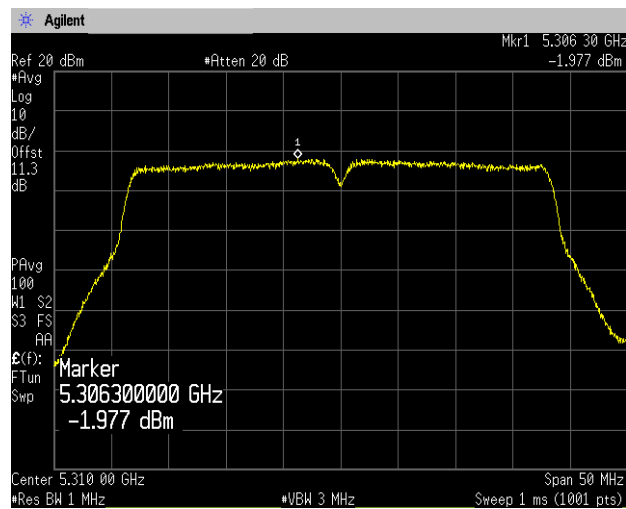
Channel: 46



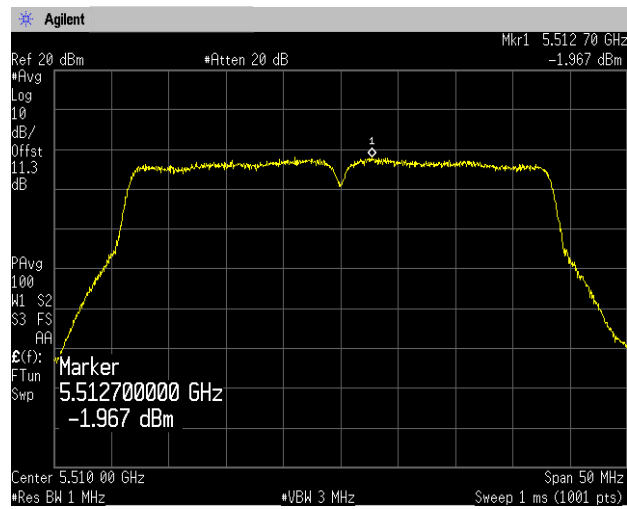
(5.3 GHz Band)
Channel: 54



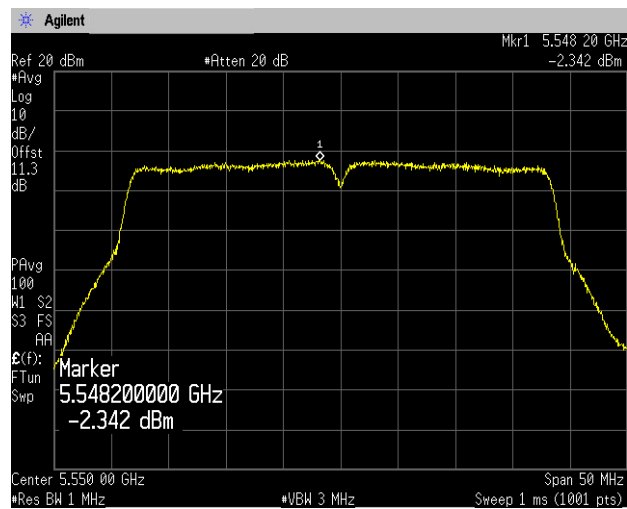
Channel: 62



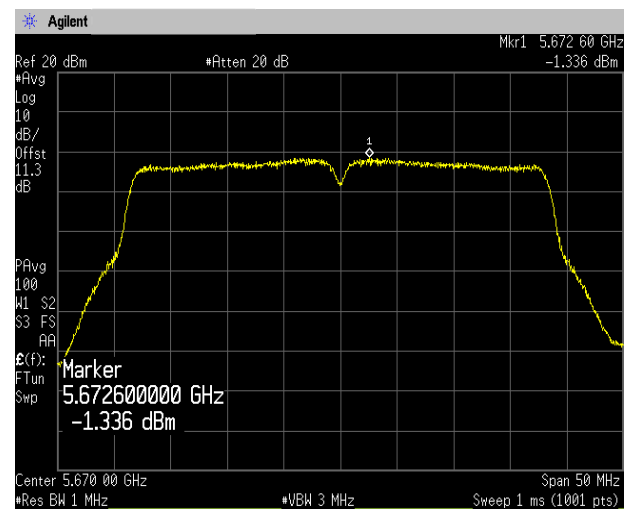
(5.6 GHz Band)
Channel: 102



Channel: 110



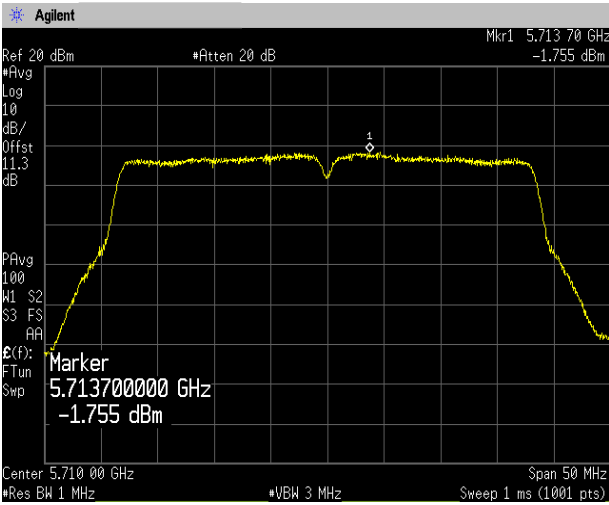
Channel: 134



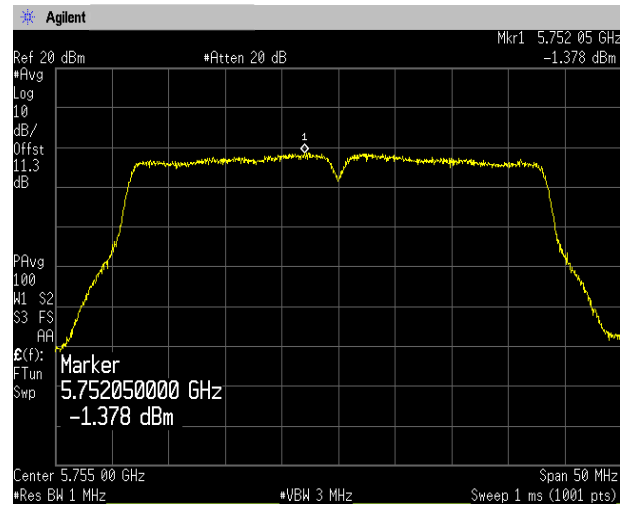


Japan

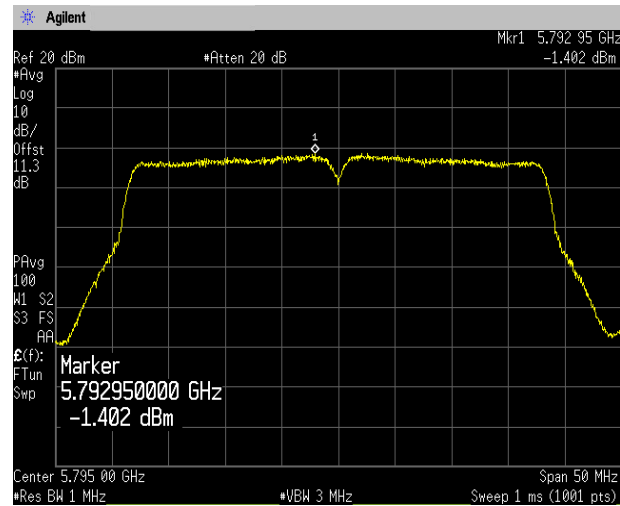
Channel: 142



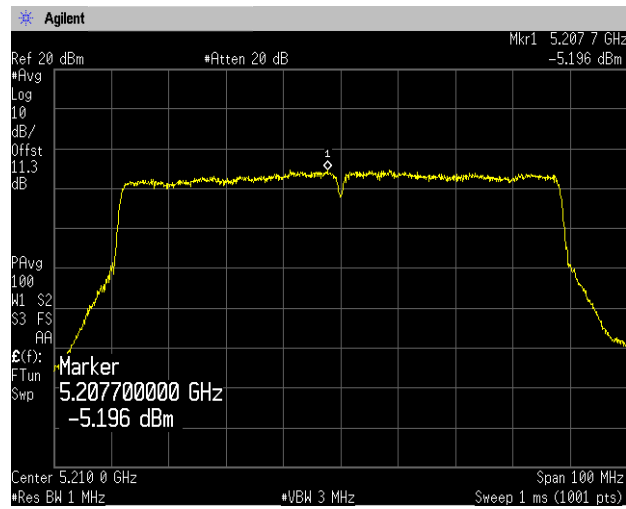
(5.8 GHz Band)
Channel: 151



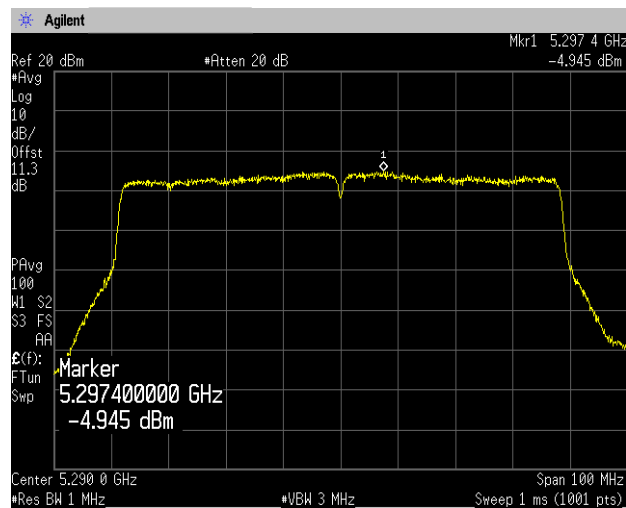
Channel: 159



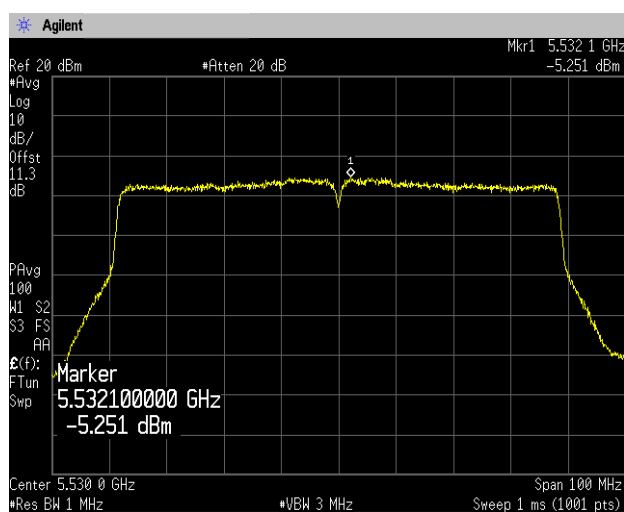
[IEEE802.11ac (HT80)]
(5.2 GHz Band)
Channel: 42



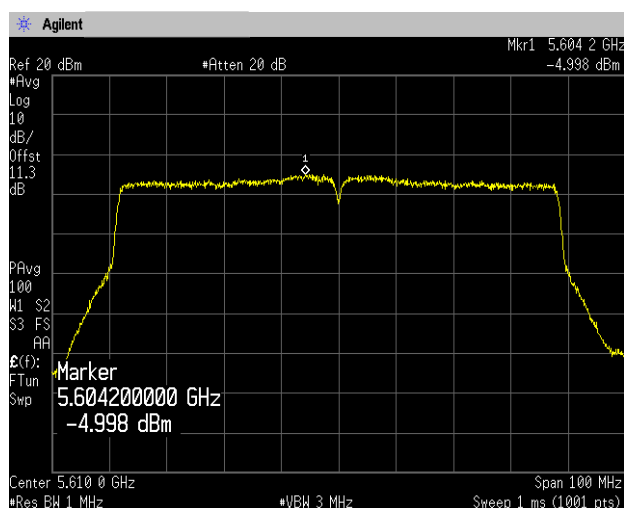
(5.3 GHz Band)
Channel: 58



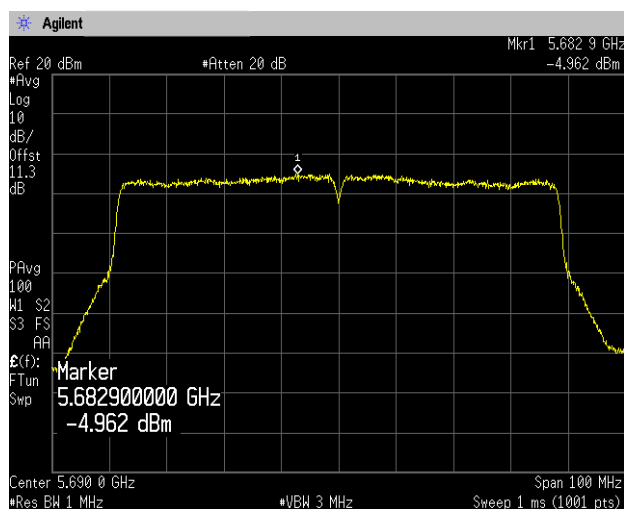
(5.6 GHz Band)
Channel: 106



Channel: 122



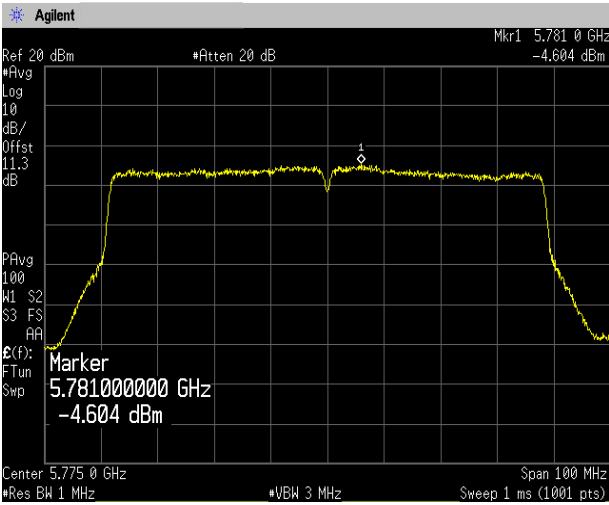
Channel: 138





Japan

(5.8 GHz Band)
Channel: 155



4.5 Radiated Emissions (Restricted Bands of Operation)

4.5.1 Measurement procedure

[FCC 15.407(b), 15.205, 15.209, KDB 789033 D02, Section G.4, 5, 6.c)Method AD]

Test was applied by following conditions.

Test method	: ANSI C63.10
Frequency range	: 9 kHz to 40 GHz
Test place	: 3m Semi-anechoic chamber
EUT was placed on	: Styrofoam table / (W) 1.0 × (D) 1.0 ×(H) 0.8 m (below 1 GHz) Styrofoam table / (W) 0.6 × (D) 0.6 ×(H) 1.5 m (above 1 GHz)
Antenna distance	: 3m
Test receiver setting	Below 1 GHz
- Detector	: Quasi-peak
- Bandwidth	: 120 kHz
Spectrum analyzer setting	Above 1 GHz
- Peak	: RBW=1 MHz, VBW=3 MHz, Span=0 Hz, Sweep=auto, Detector=Peak Trace mode=Max hold
- Average	: RBW=1 MHz, VBW=3 MHz, Span=0 Hz, Sweep=auto, Detector=RMS Trace mode=Averaging(300 counts)

Radiated emission measurements are performed at 3m distance with the broadband antenna (Loop antenna, Biconical antenna, Log periodic antenna, Double ridged guide antenna and Broad-band horn Antenna). The antenna is positioned both the horizontal and vertical planes of polarization and height is varied 1m to 4m and stopped at height producing the maximum emission. As for the Loop antenna, it is positioned with its plane vertical, and the center of the Loop antenna is 1m above the ground plane.

The EUT is Placed on a turntable, which is 0.8m (below 1 GHz) and 1.5m (above 1 GHz) above ground plane. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. The test results represent the worst case emission for each emission with manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation. Sufficient time for the EUT, support equipment, and test equipment are allowed in order for them to warm up to their normal operating condition.

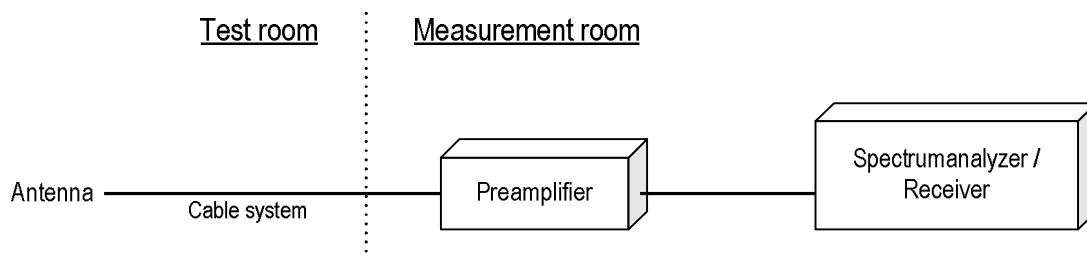
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band

The test mode of EUT is as follows.

- Tx mode, Rx mode

- Test configuration



Duty cycle result

Mode	Band	On Time(ms)	On+Off Time(ms)	Duty Cycle (%)	DCF (dB)
802.11a	W52	1.344	1.382	97.25	0.121
	W53	1.340	1.380	97.10	0.128
	W56	1.344	1.382	97.25	0.121
	W58	1.344	1.378	97.53	0.108
802.11n (20MHz)	W52	1.258	1.298	96.92	0.136
	W53	1.260	1.298	97.07	0.129
	W56	1.258	1.294	97.22	0.123
	W58	1.260	1.296	97.22	0.122
802.11n (40MHz)	W52	0.628	0.664	94.58	0.242
	W53	0.628	0.666	94.29	0.255
	W56	0.627	0.664	94.43	0.249
	W58	0.627	0.665	94.29	0.256
802.11ac (80MHz)	W52	0.315	0.352	89.64	0.475
	W53	0.315	0.352	89.64	0.475
	W56	0.315	0.352	89.38	0.488
	W58	0.315	0.352	89.64	0.475

Note: DCF = $10\log(1/x)$ **4.5.2 Calculation method**

[150 kHz to 25 GHz]

Emission level = Reading + (Ant. factor + Cable system loss - Amp. Gain)

Margin = Limit - Emission level

Example:

Detector: Peak

Limit @ 5147.0 MHz: 74.0 dBuV/m (Peak Limit)

S.A Reading = 40.9 dBuV Cable system loss = 16.4 dB

Result = 40.9 + 16.4 = 57.3 dBuV/m

Margin = 74.0 - 57.3 = 16.7 dB

4.5.3 Limit

- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725GHz band: all emissions outside of the 5.47 5-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.

Frequency [MHz]	Field strength		Distance [m]
	[uV/m]	[dBuV/m]	
0.009-0.490	2400 / F [kHz]	20logE [uV/m]	300
0.490-1.705	24000 / F [kHz]	20logE [uV/m]	30
1.705-30	30	29.5	30
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level [dBuV/m] = 20log Emission [uV/m]
3. As shown in 15.35(b), for frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition modulation.

4.5.4 Test data

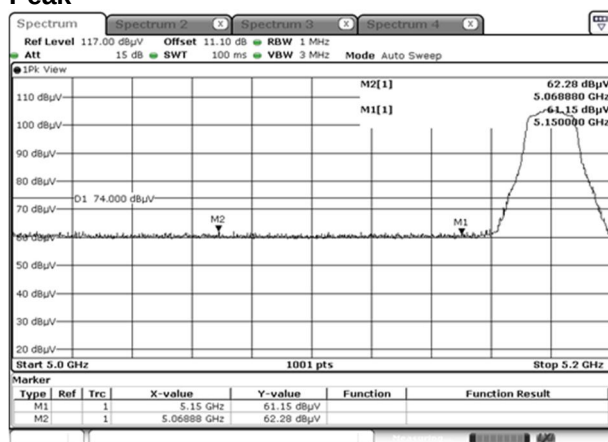
Date : 9-October-2021
 Temperature : 21.9 [°C]
 Humidity : 69.0 [%]
 Test place : 3m Semi-anechoic chamber

Test engineer : Taiki Watanabe

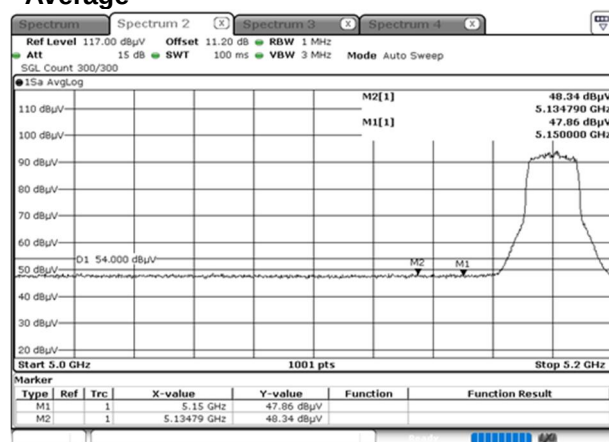
4.5.4.1 Restricted Bandedge

[IEEE802.11a]

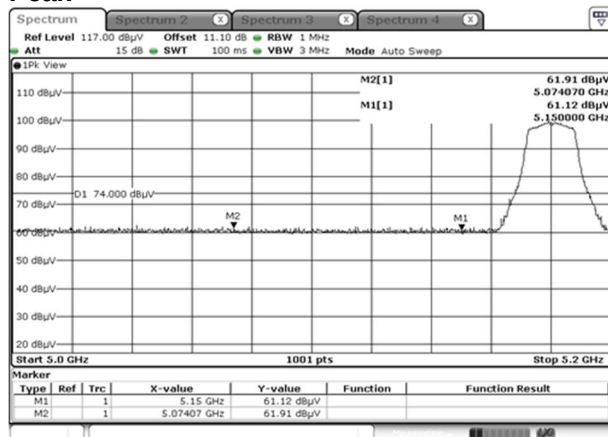
5.2 GHz Band, Channel Low Horizontal Peak



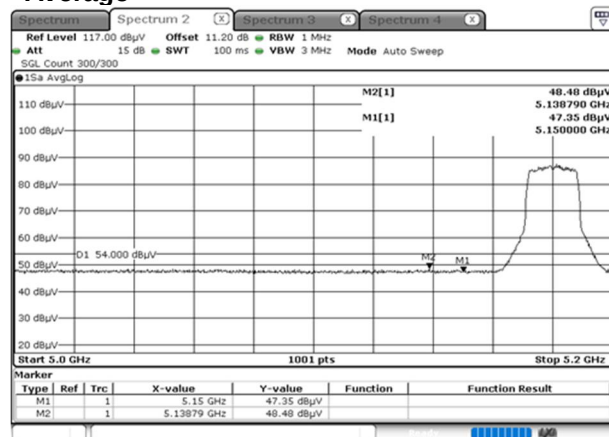
Average



Vertical Peak

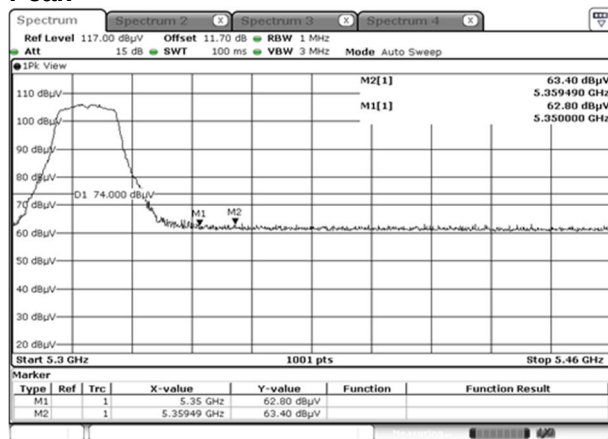


Average

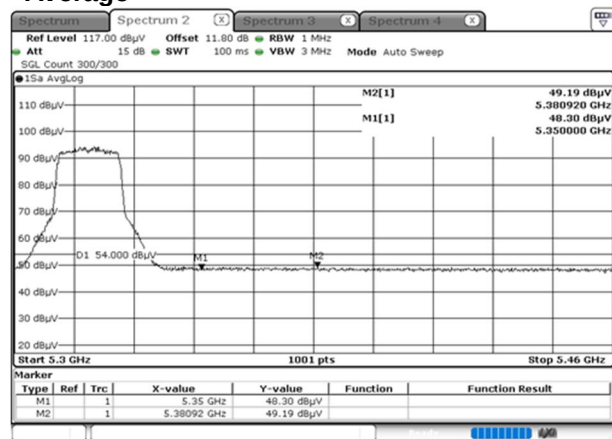


[IEEE802.11a]

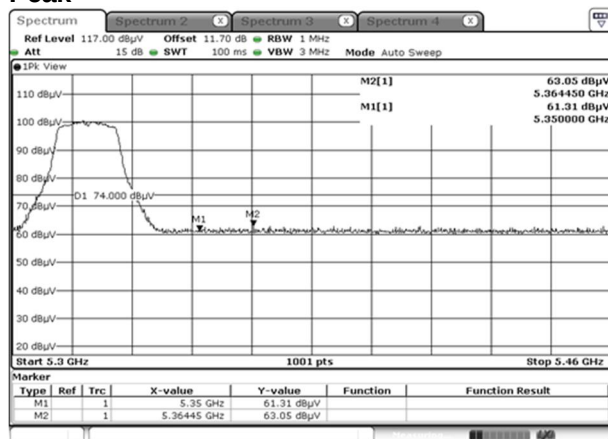
5.3 GHz Band, Channel High Horizontal Peak



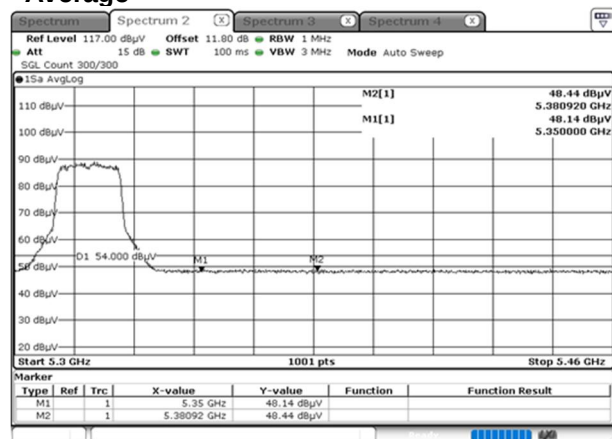
Average



Vertical Peak

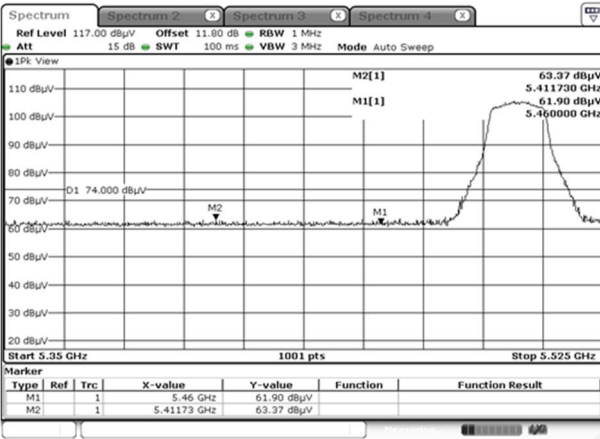


Average

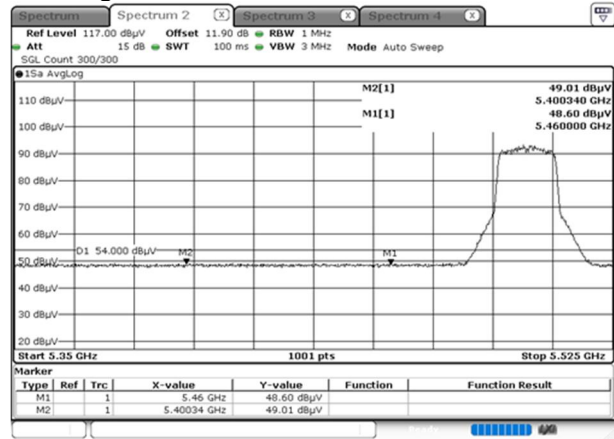


[IEEE802.11a]

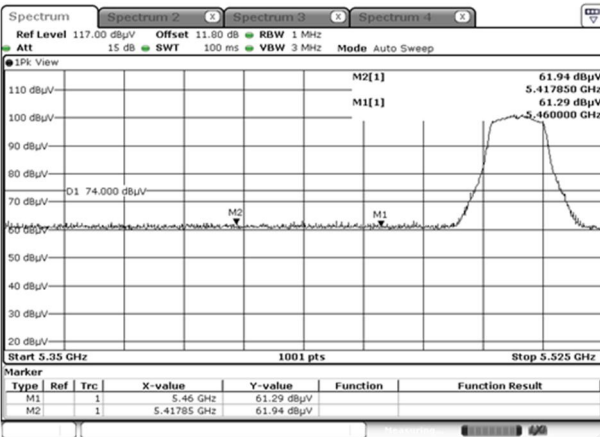
5.6 GHz Band, Channel Low
Horizontal
Peak



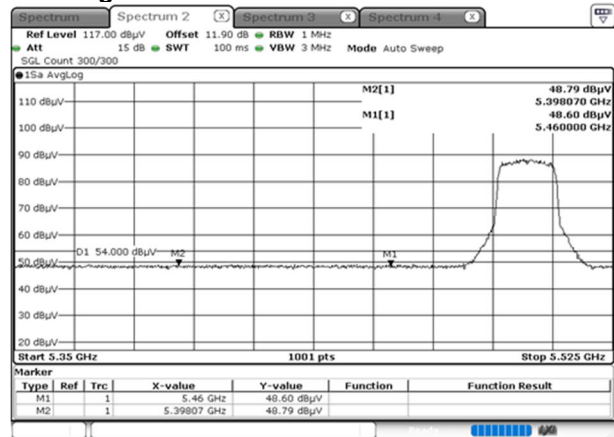
Average



Vertical
Peak

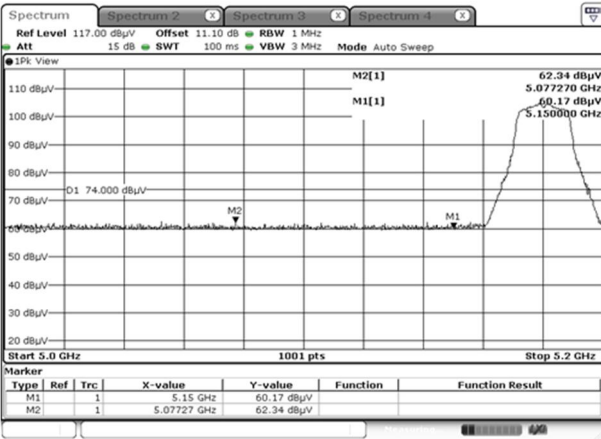


Average

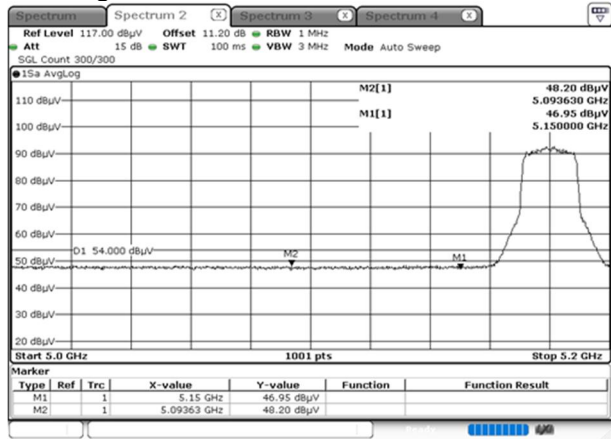


[IEEE802.11n (HT20)]

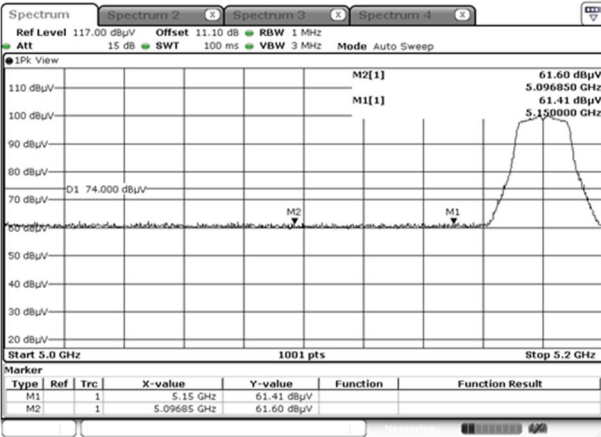
5.2 GHz Band, Channel Low
Horizontal
Peak



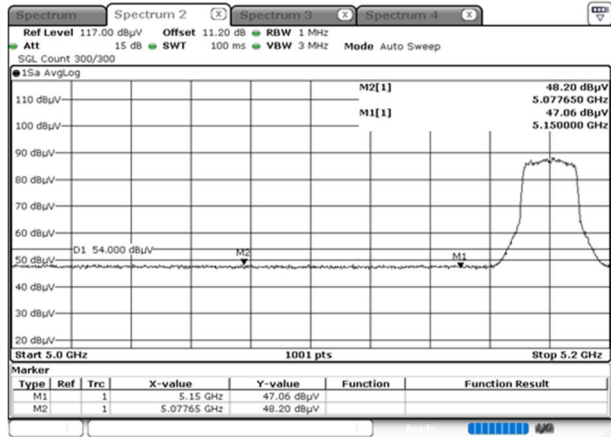
Average



Vertical
Peak

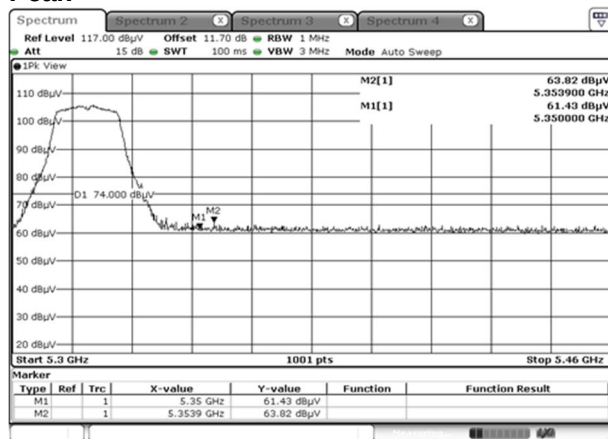


Average

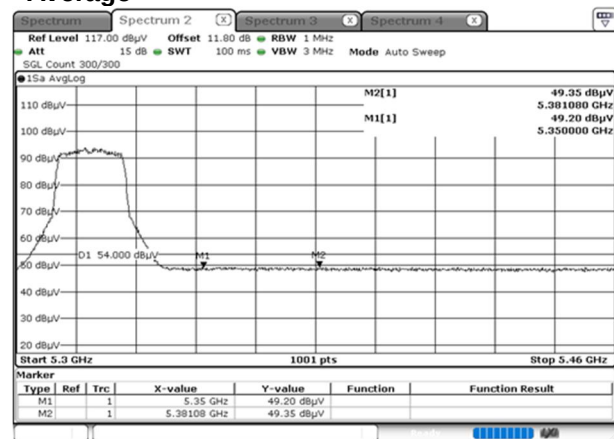


[IEEE802.11n (HT20)]

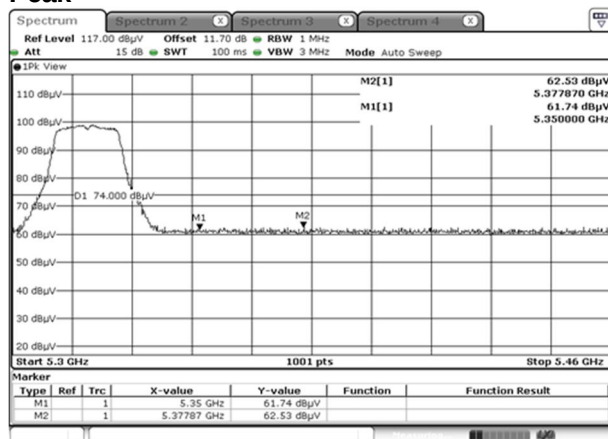
5.3 GHz Band, Channel High Horizontal Peak



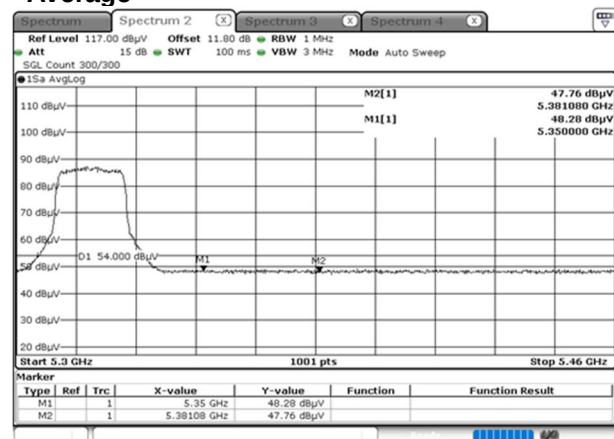
Average



Vertical Peak

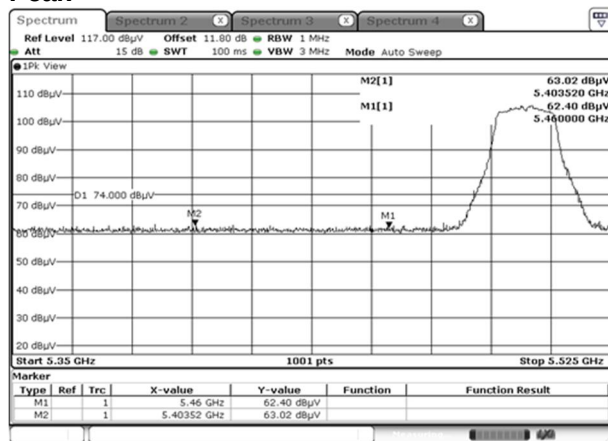


Average

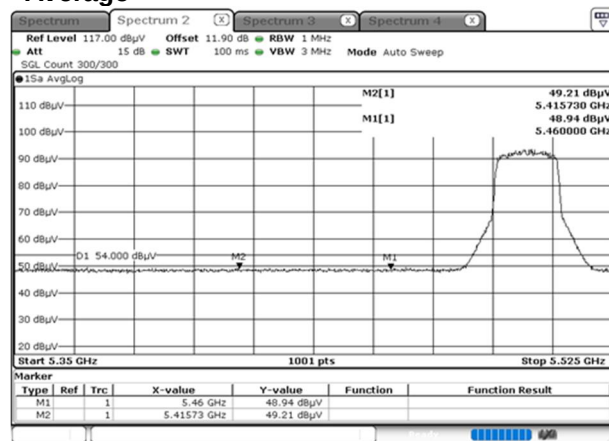


[IEEE802.11n (HT20)]

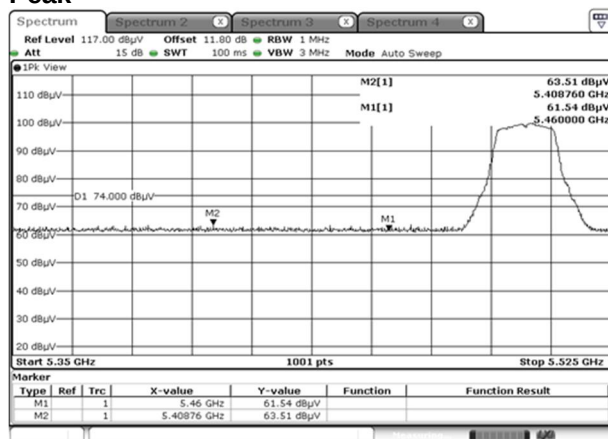
5.6 GHz Band, Channel Low Horizontal Peak



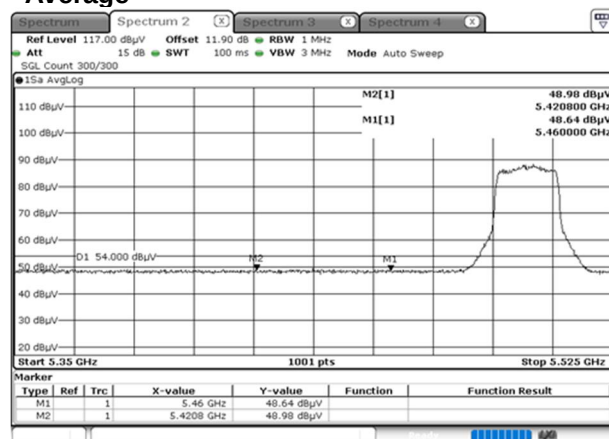
Average



Vertical Peak

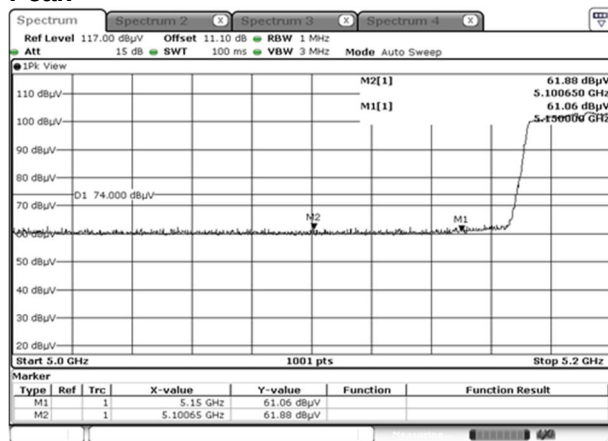


Average

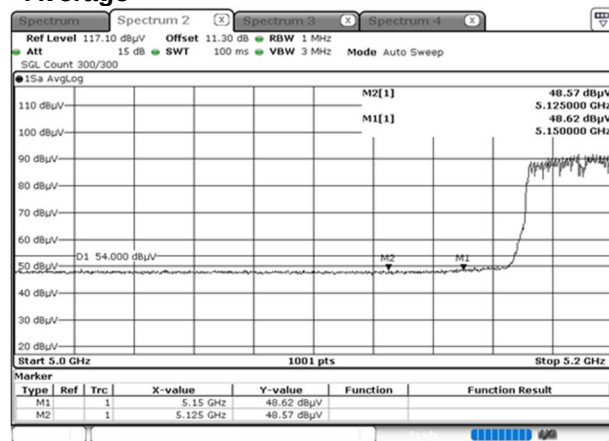


[IEEE802.11n (HT40)]

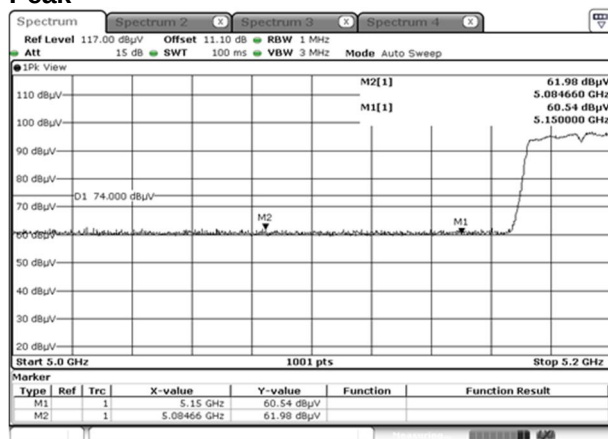
5.2 GHz Band, Channel Low Horizontal Peak



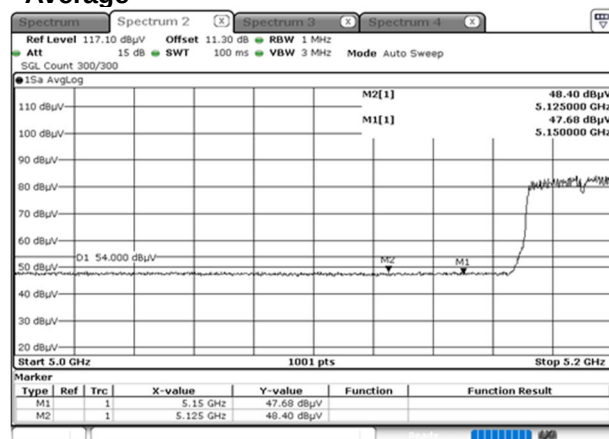
Average



Vertical Peak

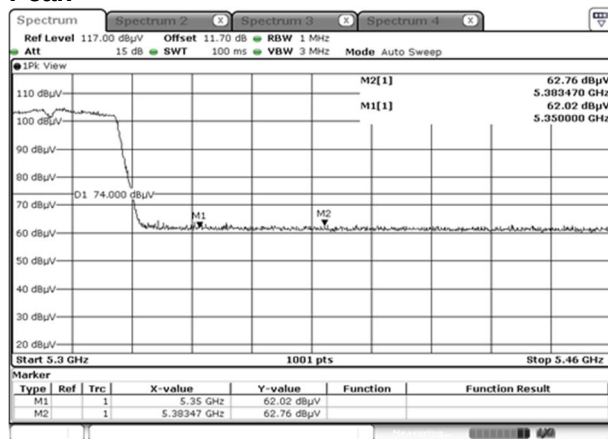


Average

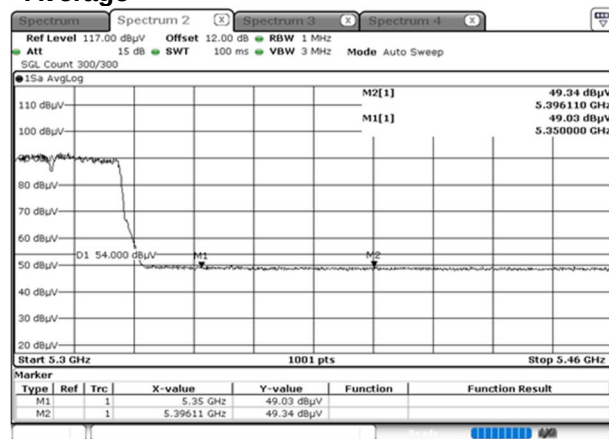


[IEEE802.11n (HT40)]

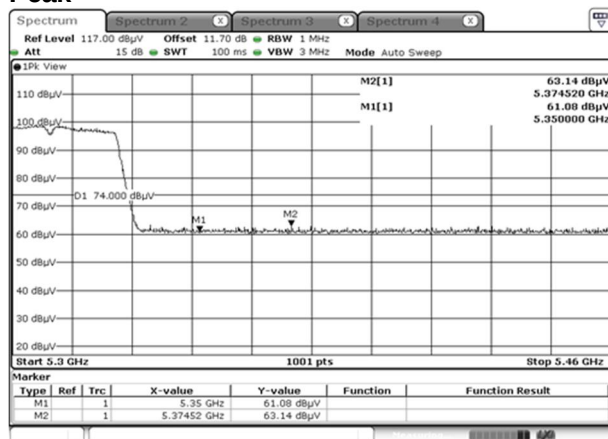
5.3 GHz Band, Channel High Horizontal Peak



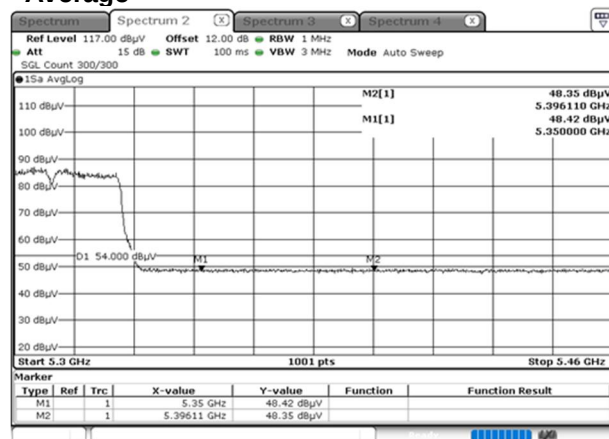
Average



Vertical Peak

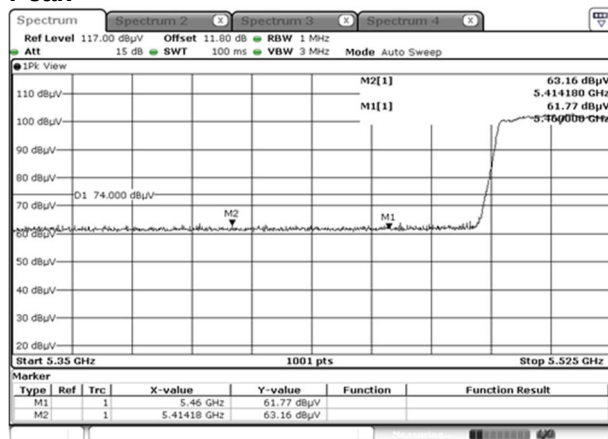


Average

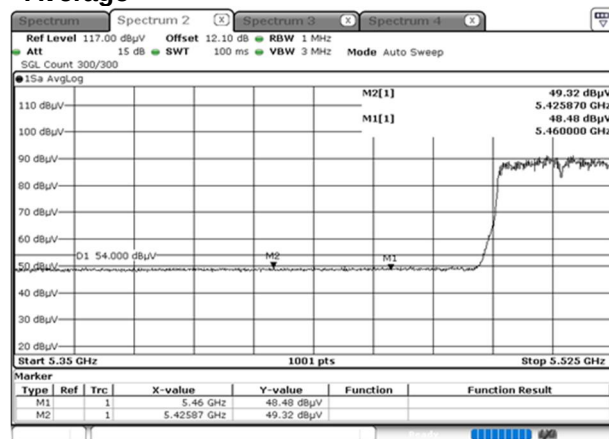


[IEEE802.11n (HT40)]

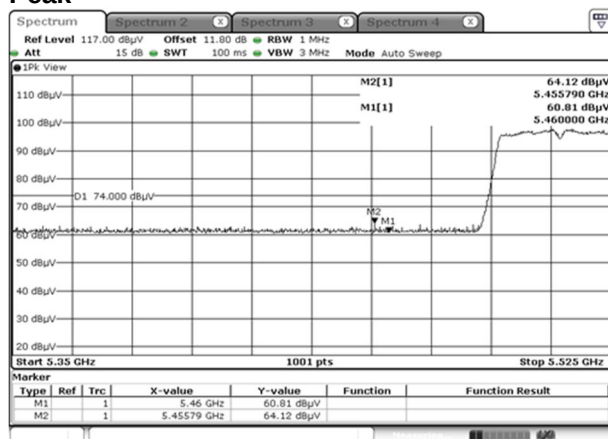
5.6 GHz Band, Channel Low Horizontal Peak



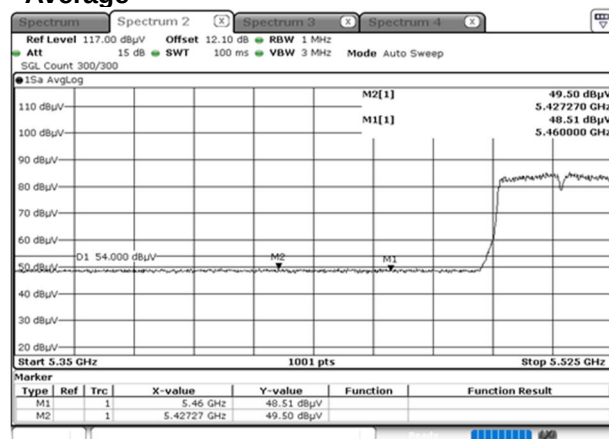
Average



Vertical Peak

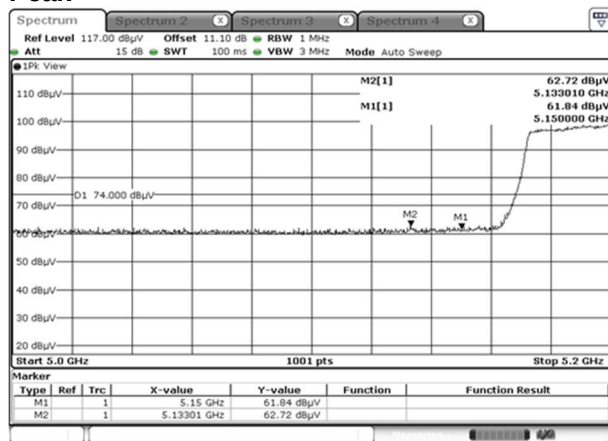


Average

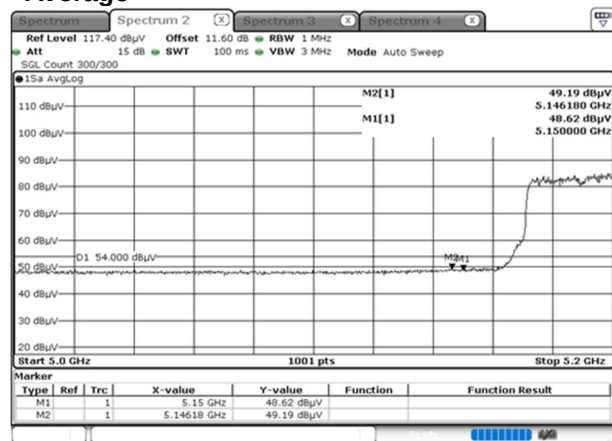


[IEEE802.11ac (VHT80)]

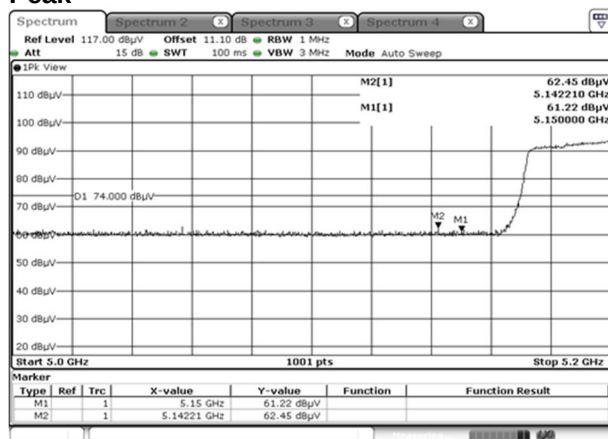
5.2 GHz Band, Channel Low Horizontal Peak



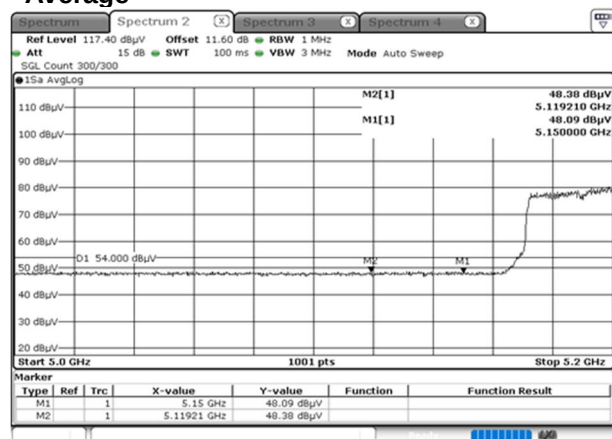
Average



Vertical Peak

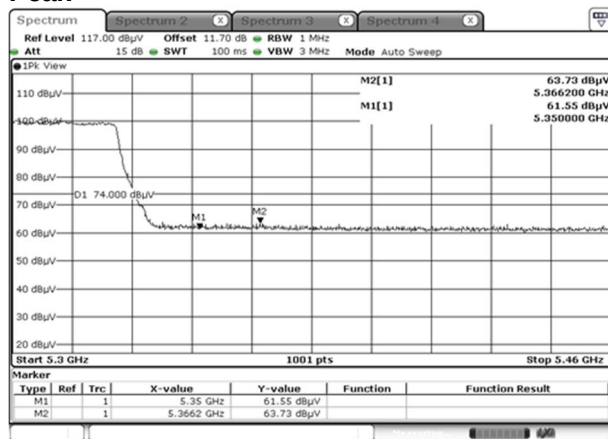


Average

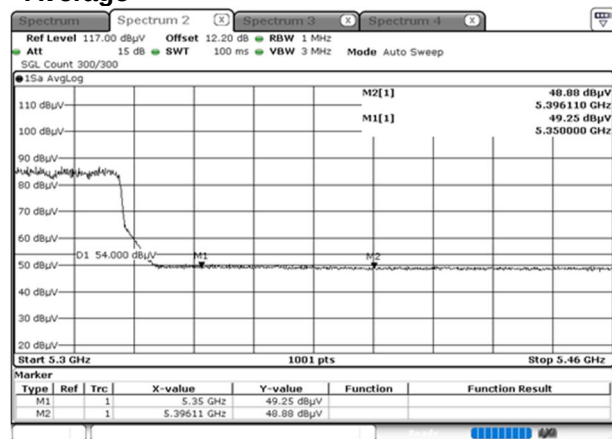


[IEEE802.11ac (VHT80)]

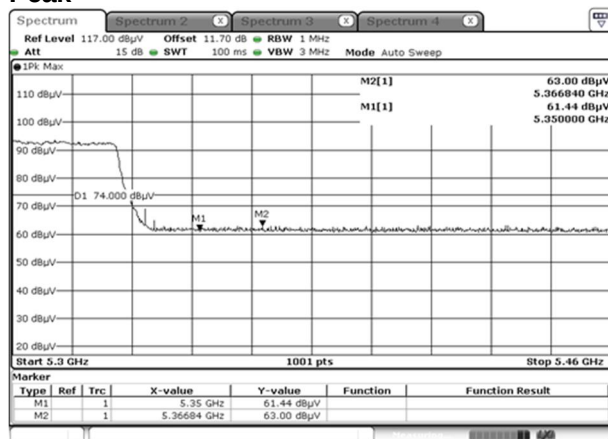
5.3 GHz Band, Channel High Horizontal Peak



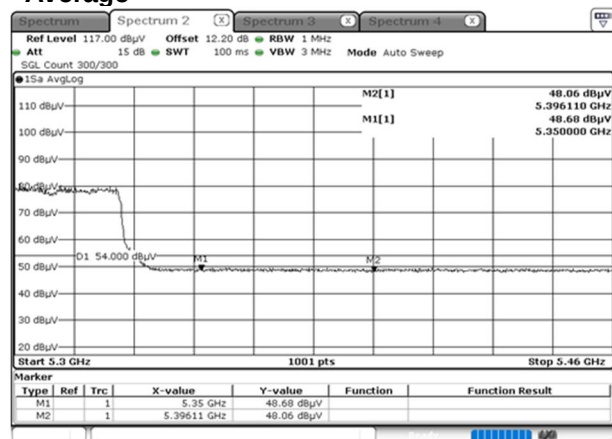
Average



Vertical Peak

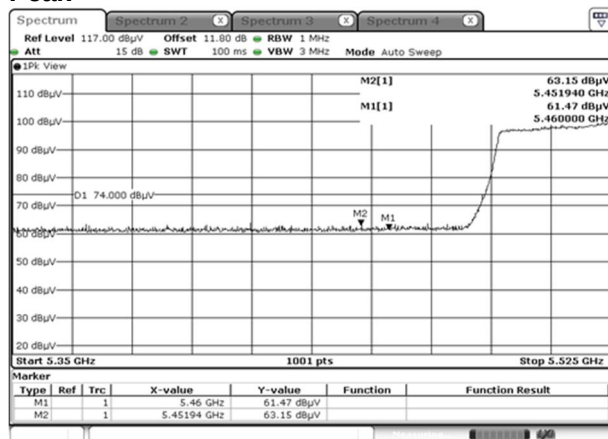


Average

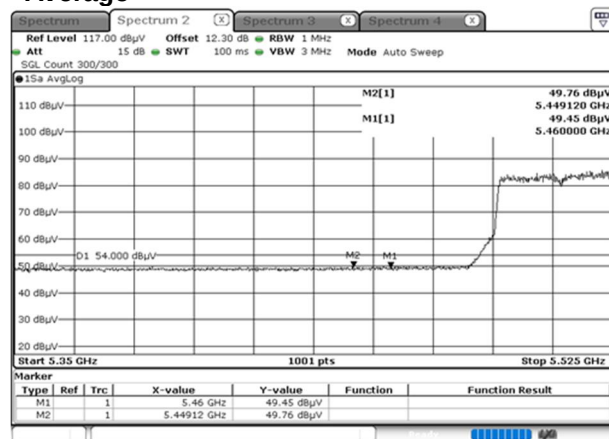


[IEEE802.11ac (VHT80)]

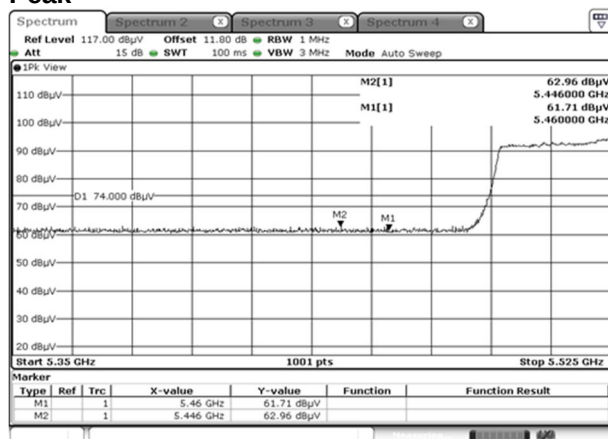
5.6 GHz Band, Channel Low Horizontal Peak



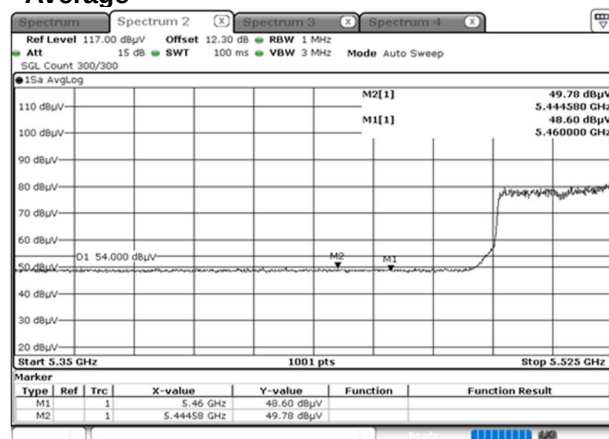
Average



Vertical Peak



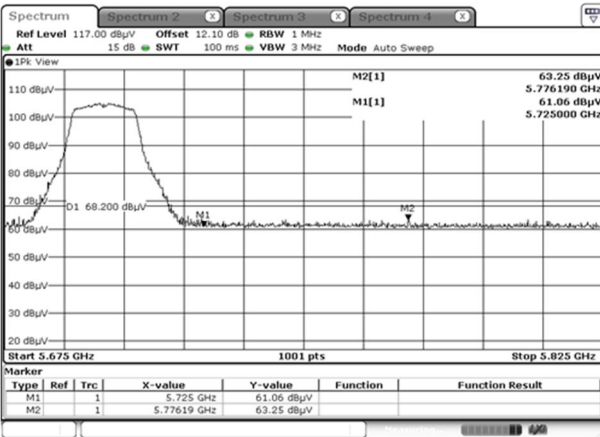
Average



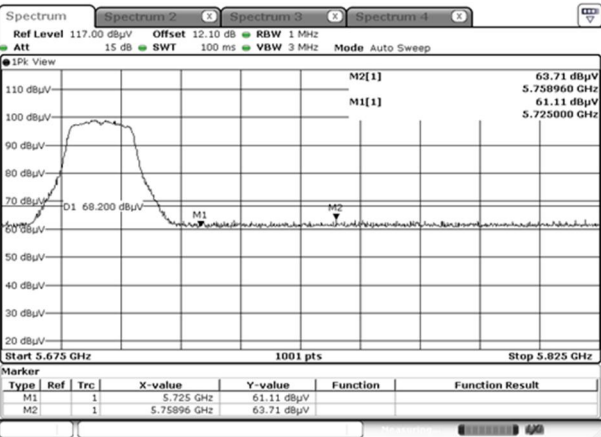
4.5.4.2 Non-Restricted Bandedge

[IEEE802.11a]

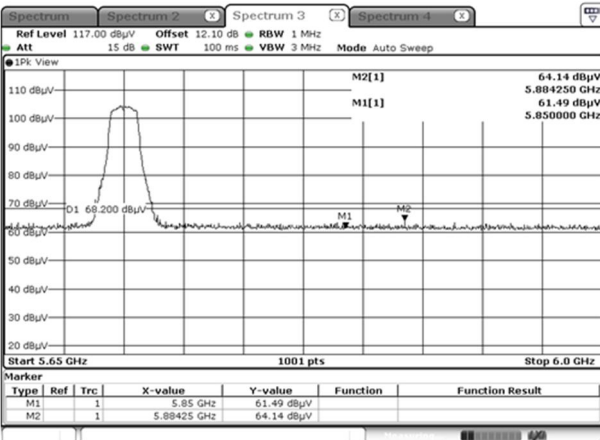
5.6 GHz Band, Channel High (140) Peak Horizontal



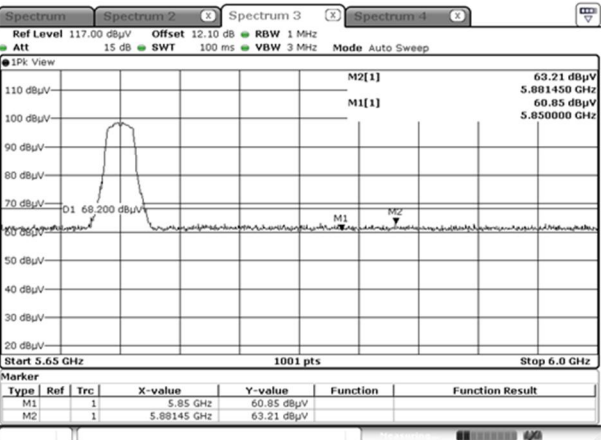
Vertical



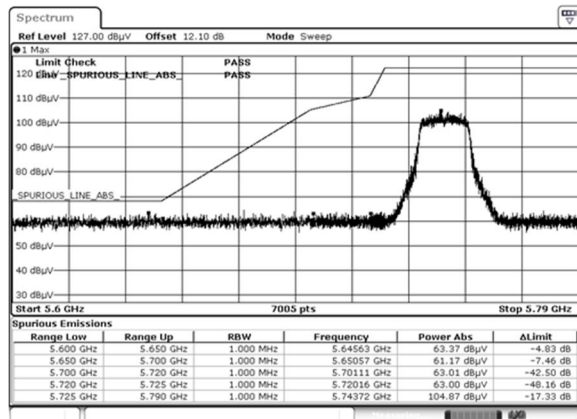
5.6 GHz Band, Channel High (144) Peak Horizontal



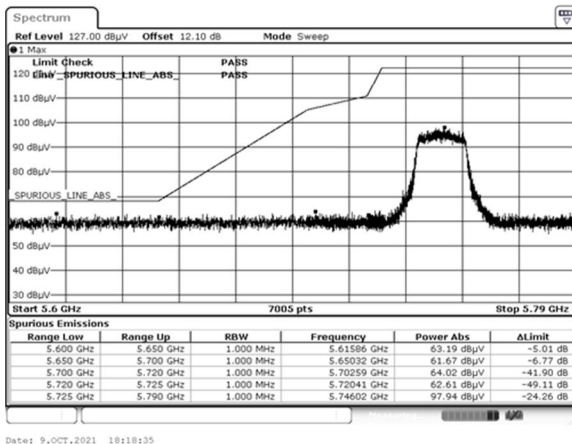
Vertical



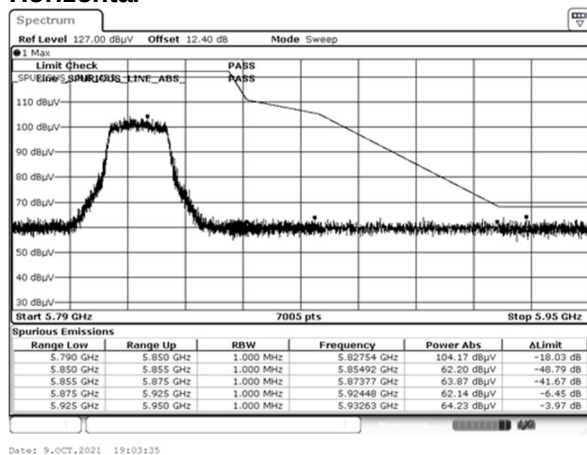
5.8 GHz Band, Channel Low (149) Peak Horizontal



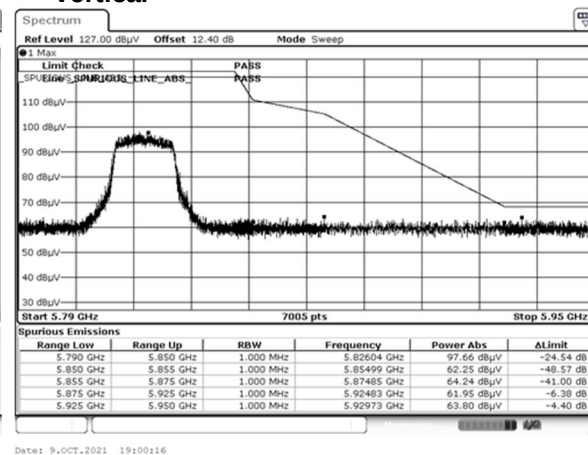
Vertical



5.8 GHz Band, Channel High (165) Peak Horizontal



Vertical

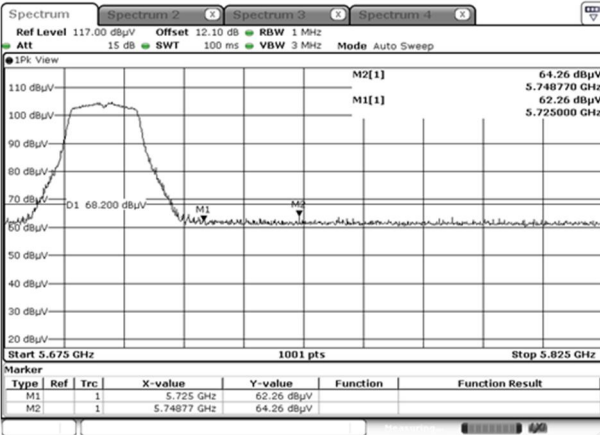


[IEEE802.11n (HT20)]

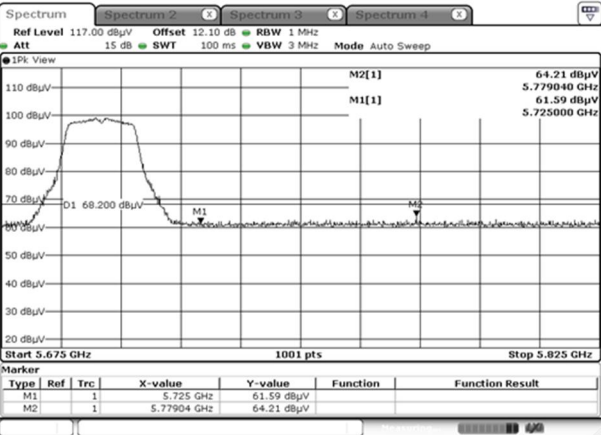
5.6GHz Band, Channel High (140)

Peak

Horizontal



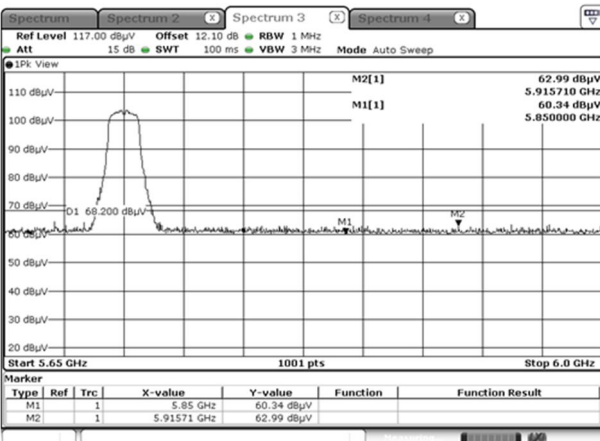
Vertical



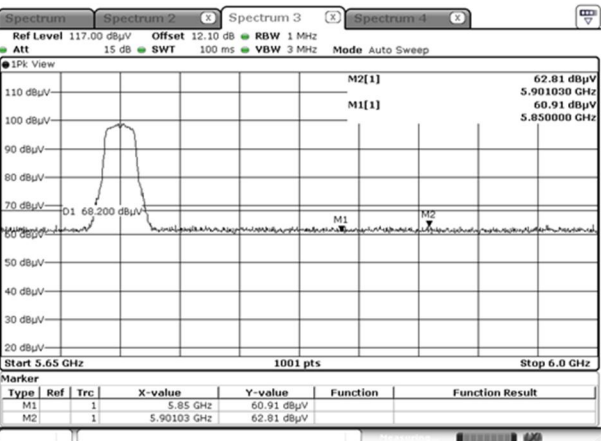
5.6GHz Band, Channel High (144)

Peak

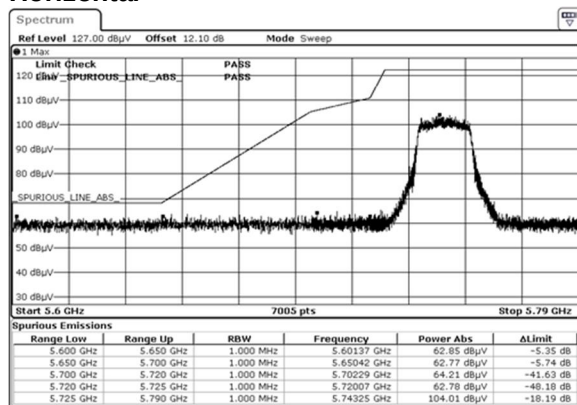
Horizontal



Vertical

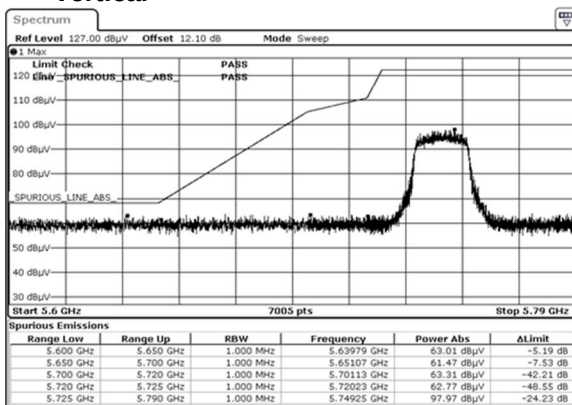


5.8 GHz Band, Channel Low (149) Peak Horizontal



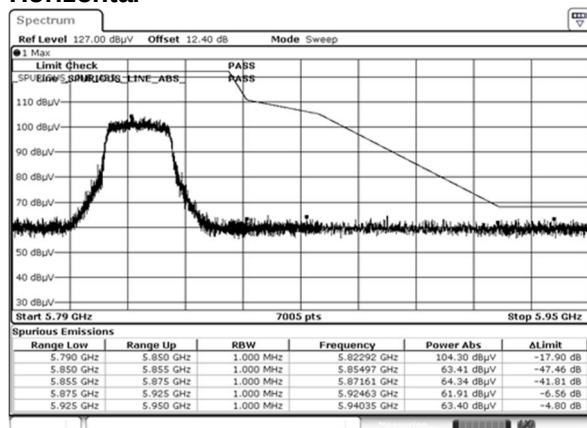
Date: 9.OCT.2021 18:12:47

Vertical



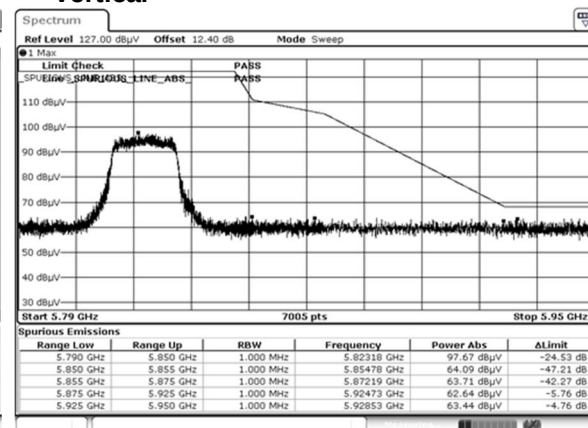
Date: 9.OCT.2021 18:12:36

5.8 GHz Band, Channel High (165) Peak Horizontal



Date: 9.OCT.2021 19:09:16

Vertical



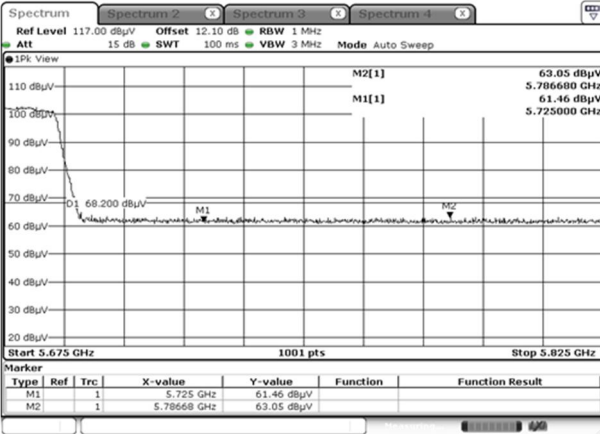
Date: 9.OCT.2021 19:12:18

[IEEE802.11n (HT40)]

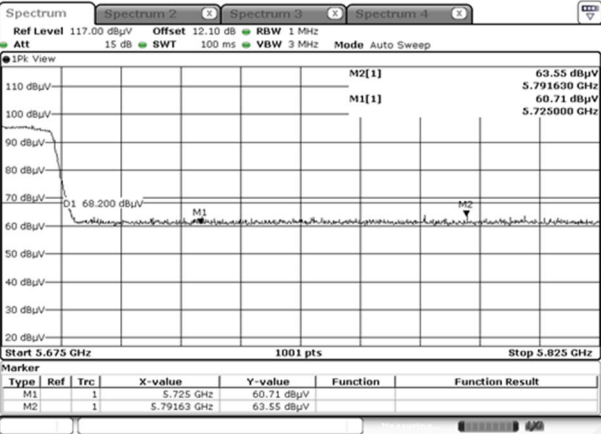
5.6GHz Band, Channel High (134)

Peak

Horizontal



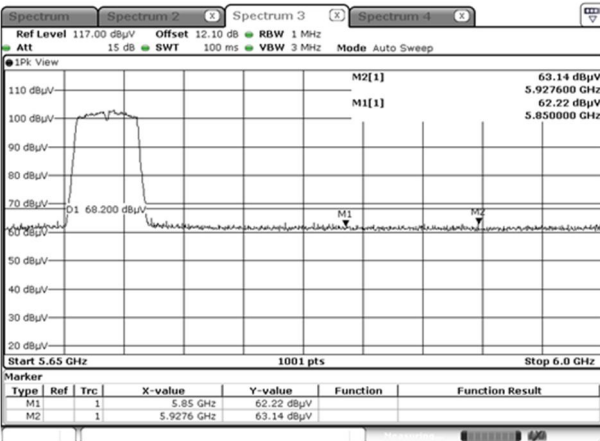
Vertical



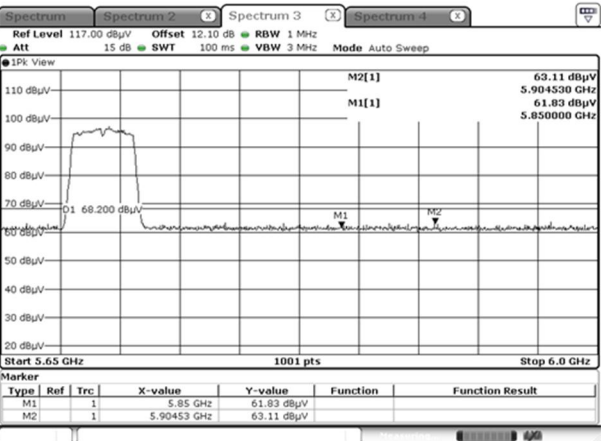
5.6GHz Band, Channel High (142)

Peak

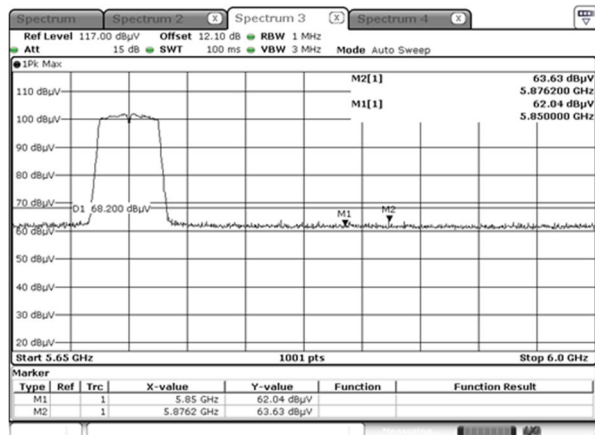
Horizontal



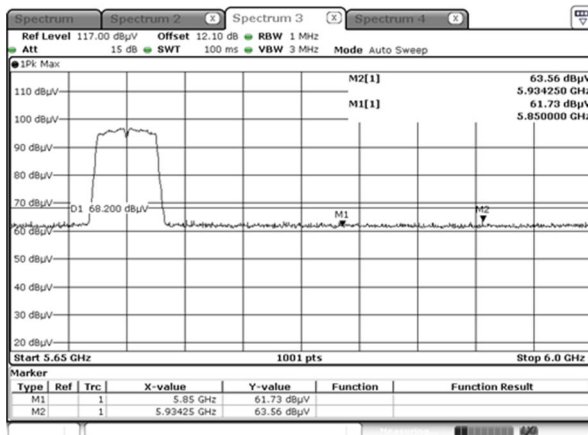
Vertical



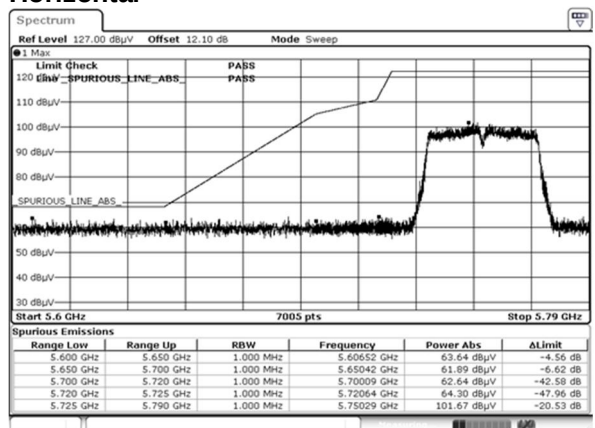
5.6GHz Band, Channel High (144) Peak Horizontal



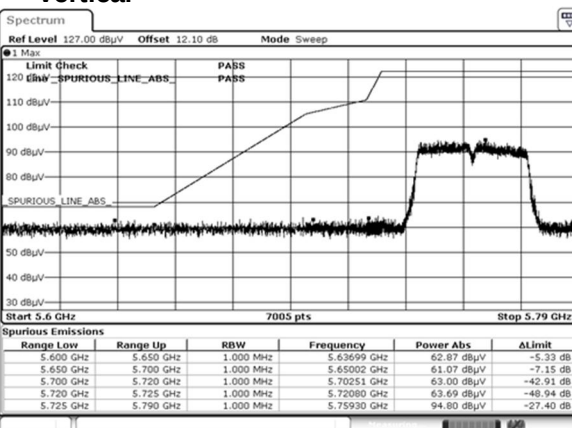
Vertical



5.8GHz Band, Channel Low (151) Peak Horizontal



Vertical



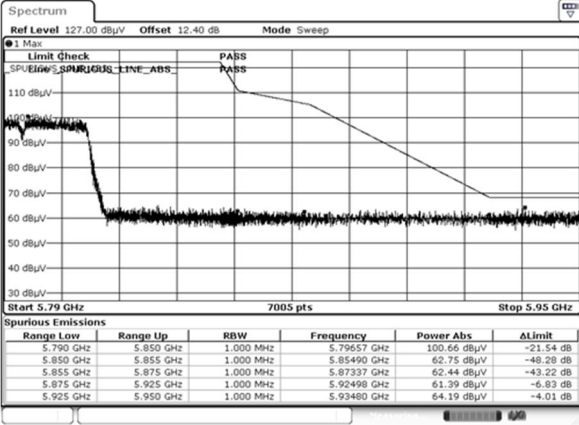
Date: 9.OCT.2021 18:47:17

Date: 9.OCT.2021 18:52:48

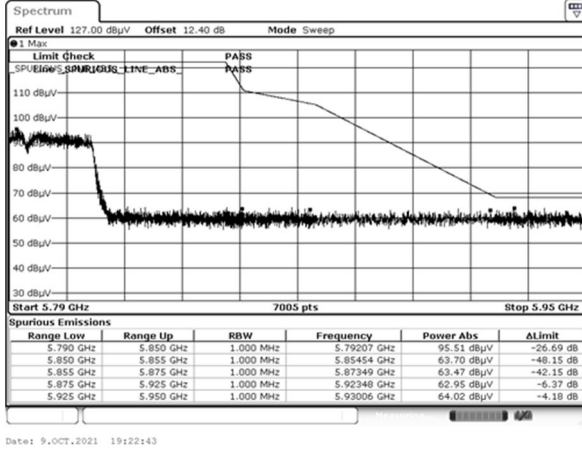


Japan

5.8GHz Band, Channel High (159)
Peak
Horizontal



Vertical

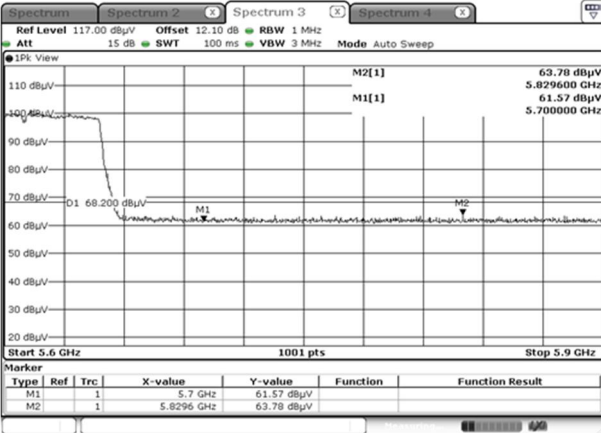


[IEEE802.11ac (VHT80)]

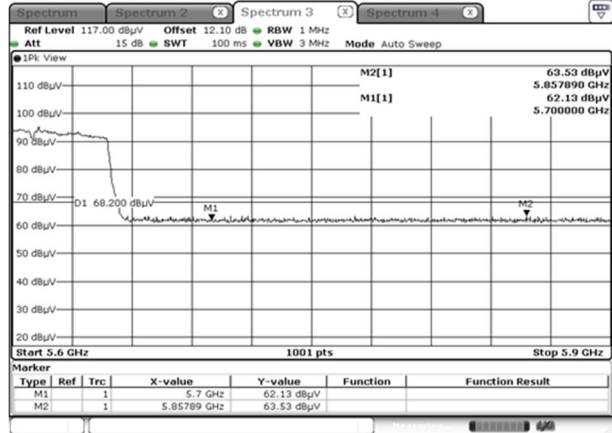
5.6GHz Band, Channel High (122)

Peak

Horizontal



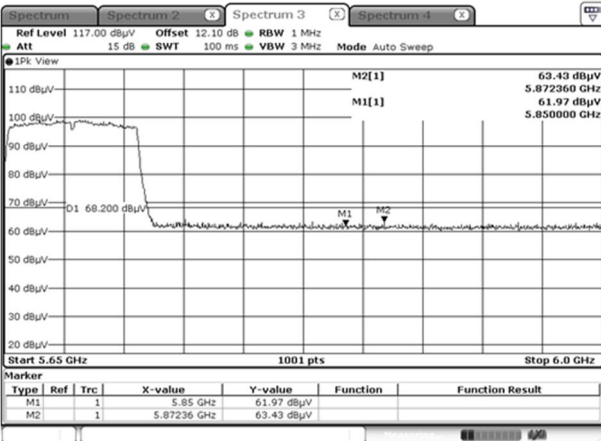
Vertical



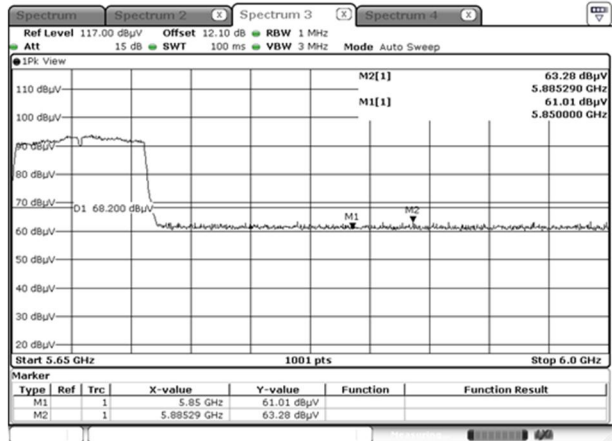
5.6GHz Band, Channel High (138)

Peak

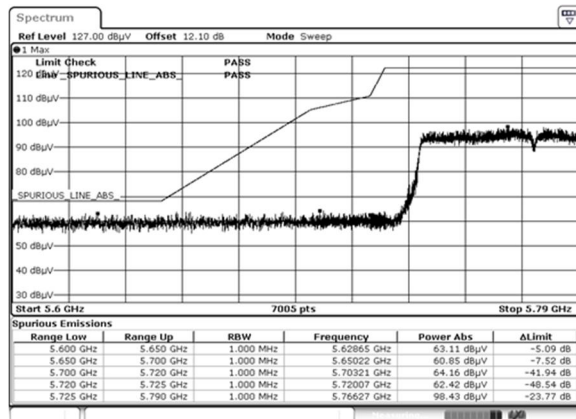
Horizontal



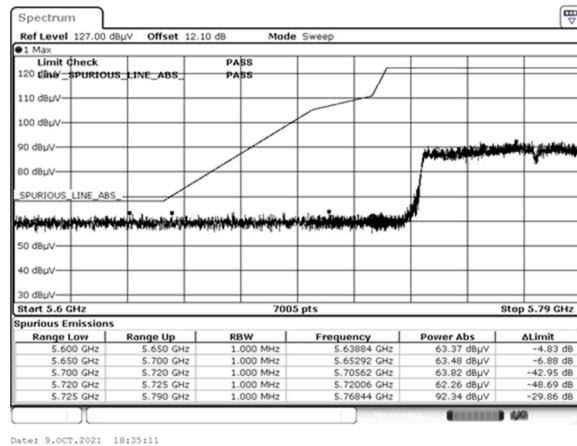
Vertical



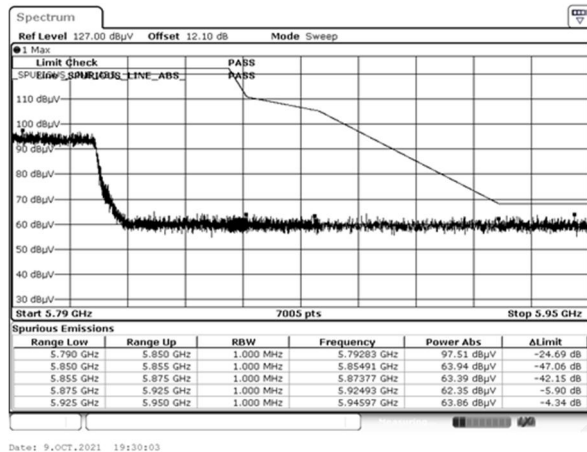
5.8GHz Band, Channel Low (155) Peak Horizontal



Vertical



5.6GHz Band, Channel High (155) Peak Horizontal



Vertical

