

## Report on the RF Testing of:

KYOCERA Corporation  
Mobile Phone, Model: EB1155  
FCC ID: JOYEB1155

## In accordance with FCC Part15 Subpart E

Prepared for: KYOCERA Corporation  
Yokohama Office 2-1-1 Kagahara, Tsuzuki-ku  
Yokohama-shi, Kanagawa, Japan  
Phone: +81-45-943-6253 Fax: +81-45-943-6314



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## COMMERCIAL-IN-CONFIDENCE

Document Number: JPD-TR-22221-1

### SIGNATURE

NAME	JOB TITLE	RESPONSIBLE FOR	ISSUE DATE
Hiroaki Suzuki	Deputy Manager of RF Group	Approved Signatory	2023.01.06

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Japan Ltd. document control rules.

### 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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TÜV SÜD Japan Ltd.  
Yonezawa Testing Center  
5-4149-7 Hachimanpara,  
Yonezawa-shi, Yamagata,  
992-1128 Japan

Phone: +81 (0) 238 28 2881  
www.tuvsud.com/ja-jp



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## 1 Summary of Test

### 1.1 Modification history of the test report

Document Number	Modification History	Issue Date
JPD-TR-22221-0	First Issue	22-December-2022
JPD-TR-22221-1	Conducted test results for EB1146 added.	Refer to the cover page

### 1.2 Standards

CFR47 FCC Part 15 Subpart E

### 1.3 Test methods

ANSI C63.10-2013  
 KDB662911 D01 Multiple Transmitter Output v02r01  
 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	Reporting Purposes only	*1
15.407(a)	Maximum Conducted Output Power	Conducted	PASS	*1
15.407(a)	Peak Power Spectral Density	Conducted	PASS	*1
15.407(b) 15.205 15.209	Radiated emissions (Restricted Bands of Operation)	Radiated	PASS	-
15.407(g)	Frequency Stability	Conducted	PASS	*1
15.207	AC Power Line Conducted Emissions	Conducted	PASS	-
ANSI C63.10, Section 12.2	Duty Cycle	Conducted	Reporting Purposes only	*1

\*1 Since there is no change in Module from FCC ID: JOYEB1146, only the Radiated test items were performed. Conduction test results are listed as "JPD-TR-22193-0" of "FCC ID: JOYEB1146".

### 1.6 Test information

None

### 1.7 Test set up

Table-top



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**1.8 Test period**

31-October-2022 - 10-December-2022

## 2 Equipment Under Test

All information in this chapter was provided by the applicant.

### 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	EB1155
Serial number	352034010006537, 352034010006552
Trade name	Kyocera
Number of sample(s)	2
EUT condition	Pre-Production
Power rating	Battery: DC 3.87 V
Size	(W) 70 mm x (D) 161 mm x (H) 8.9 mm
Environment	Indoor and Outdoor use
Terminal limitation	-20 °C to 60 °C
Hardware version	DMT
Software version	0.100ML.9013.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 IEEE802.11n (HT40) / IEEE802.11ac (VHT40): 5190 MHz-5310 MHz, 5510 MHz-5710 MHz IEEE802.11ac (VHT80): 5210 MHz, 5290 MHz, 5530 MHz, 5610 MHz, 5690MHz
Number of RF Channels	IEEE802.11a/n (HT20) / IEEE802.11ac (VHT20): 20 Channels IEEE802.11n (HT40) / IEEE802.11ac (VHT40): 10 Channels IEEE802.11ac (VHT80): 5 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	15.588 mW (IEEE802.11a) 13.957 mW (IEEE802.11n: HT20) 16.188 mW (IEEE802.11n: HT40) 15.321 mW (IEEE802.11ac: VHT80)
Antenna type	Internal antenna
Antenna gain	5.15-5.35 GHz band: 1.6 dBi 5.47-5.725 GHz band: 0.2 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: EB1155, Serial Number: 352034010006537, 352034010006552			
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

### [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

### [IEEE802.11ac (VHT80)]

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

## 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	5710	-	-

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)

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 Z-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”.

This test configuration is based on the manufacture’s instruction.

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	EB1155	352034010006537 352034010006552	JOYEB1155	EUT
2	AC Adapter	KDDI	0602PQA	N/A	N/A	*

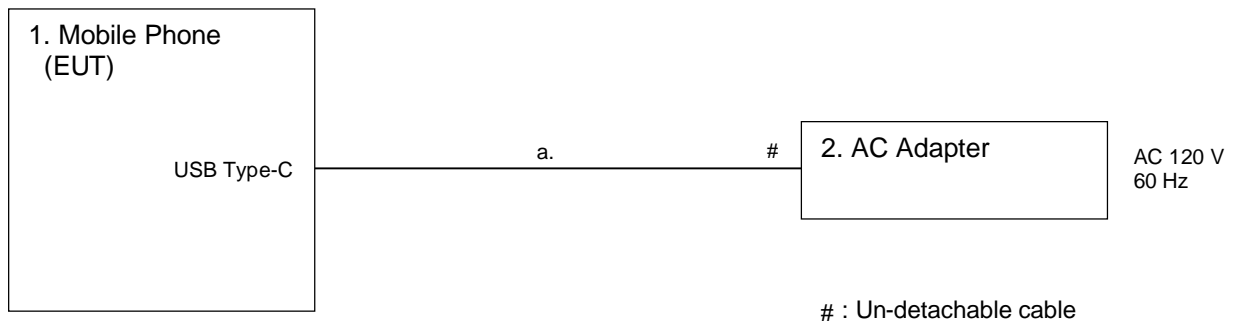
\*: AC power line Conducted Emission Test.

#### 3.2 Cable(s) used

No.	Cable	Length[m]	Shield	Connector	Comment
a	USB cable (for AC Adapter)	1.5	No	Plastic	*

\*: 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

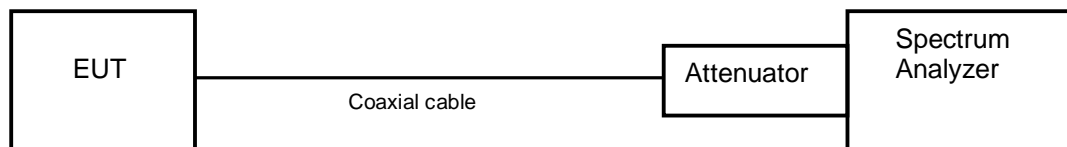
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band, 5.8 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 : 8-November-2022  
 Temperature : 21.0 [°C]  
 Humidity : 36.8 [%]  
 Test place : Shielded room No.4

Test engineer : Kazunori Saito

Mode	Band	Channel	Frequency (MHz)	26dB bandwidth (MHz)	99% Occupied bandwidth (MHz)
802.11a	5.2GHz Band	36	5180	20.024	16.4682
		40	5200	19.887	16.4006
		48	5240	19.879	16.4297
	5.3GHz Band	52	5260	19.933	16.4008
		56	5280	20.042	16.3834
		64	5320	19.711	16.3881
	5.6GHz Band	100	5500	19.681	16.4153
		116	5580	19.870	16.4389
		140	5700	19.656	16.4030
		144	5720	19.741	16.4246

\*: Tested by EB1146

Mode	Band	Channel	Frequency (MHz)	26dB bandwidth (MHz)	99% Occupied bandwidth (MHz)
802.11n (20MHz)	5.2GHz Band	36	5180	20.196	17.5296
		40	5200	20.276	17.5505
		48	5240	20.127	17.5431
	5.3GHz Band	52	5260	20.126	17.5332
		56	5280	20.091	17.5647
		64	5320	20.223	17.5389
	5.6GHz Band	100	5500	20.009	17.5594
		116	5580	20.169	17.5307
		140	5700	20.204	17.5666
		144	5720	20.018	17.5286

\*: Tested by EB1146



Mode	Band	Channel	Frequency (MHz)	26dB bandwidth (MHz)	99% Occupied bandwidth (MHz)
802.11n (40MHz)	5.2GHz Band	38	5190	40.544	35.9551
		46	5230	40.643	35.9565
	5.3GHz Band	54	5270	40.354	35.9849
		62	5310	40.625	35.9612
	5.6GHz Band	102	5510	40.529	35.9641
		110	5550	40.393	35.9432
		134	5670	40.545	36.0389
		142	5710	40.413	36.0091

\*: Tested by EB1146

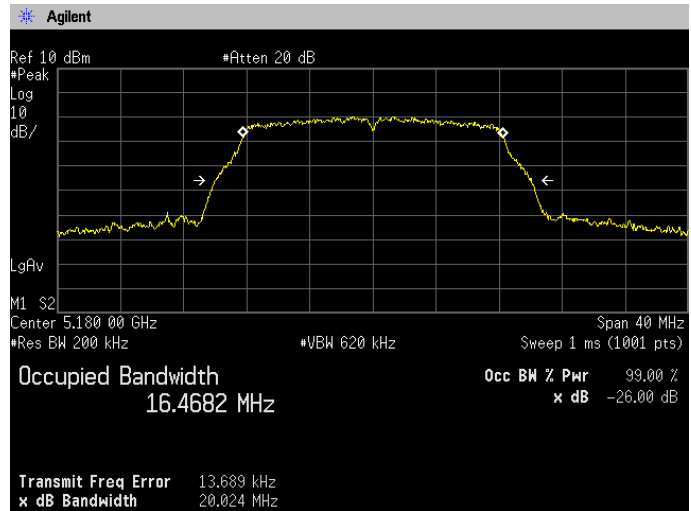
Mode	Band	Channel	Frequency (MHz)	26dB bandwidth (MHz)	99% Occupied bandwidth (MHz)
802.11ac (80MHz)	5.2GHz Band	42	5210	80.843	75.1469
	5.3GHz Band	58	5290	80.796	75.1002
	5.6GHz Band	106	5530	81.085	75.1313
		122	5610	80.743	75.1194
		138	5690	80.707	75.1625

\*: Tested by EB1146

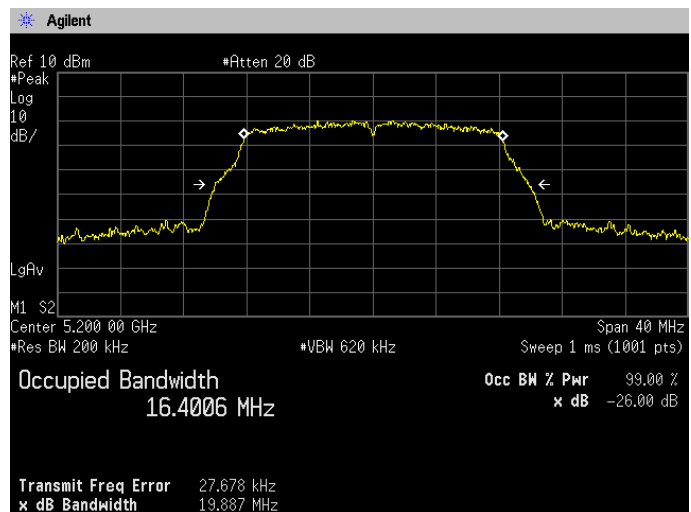


4.1.4 Trace data

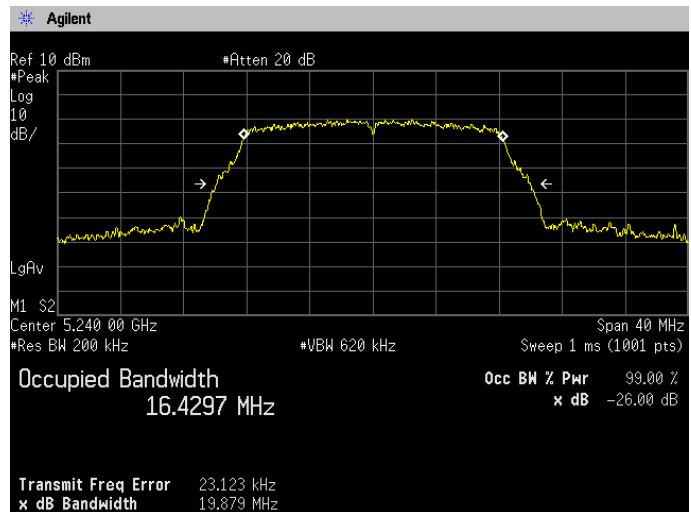
[IEEE802.11a]  
 (5.2 GHz Band)  
 Channel: 36



Channel: 40

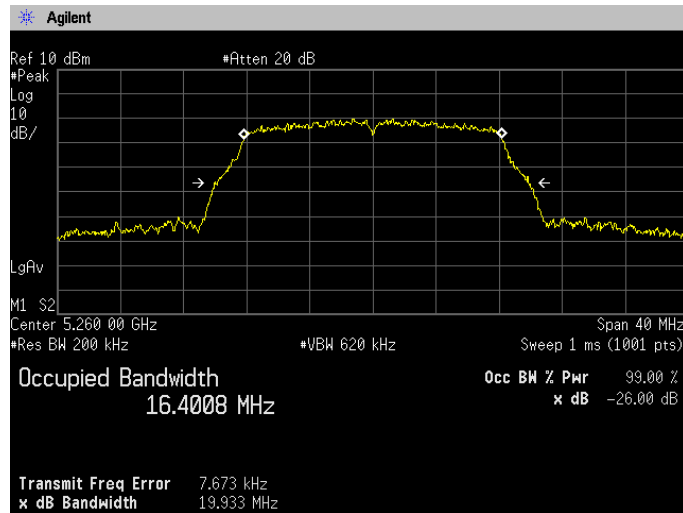


Channel: 48

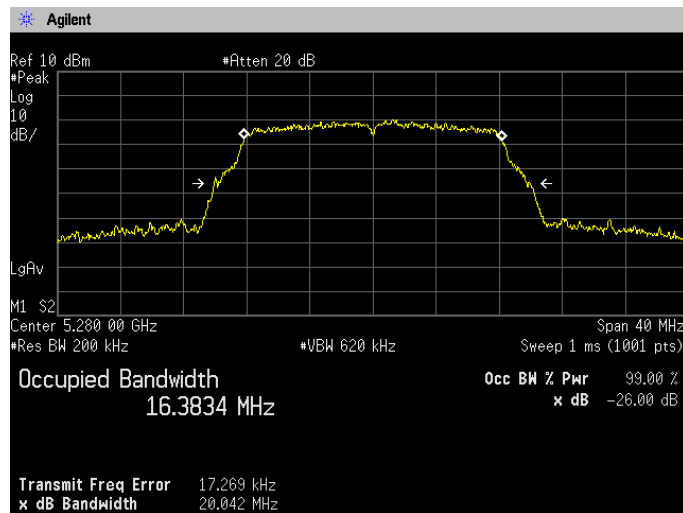




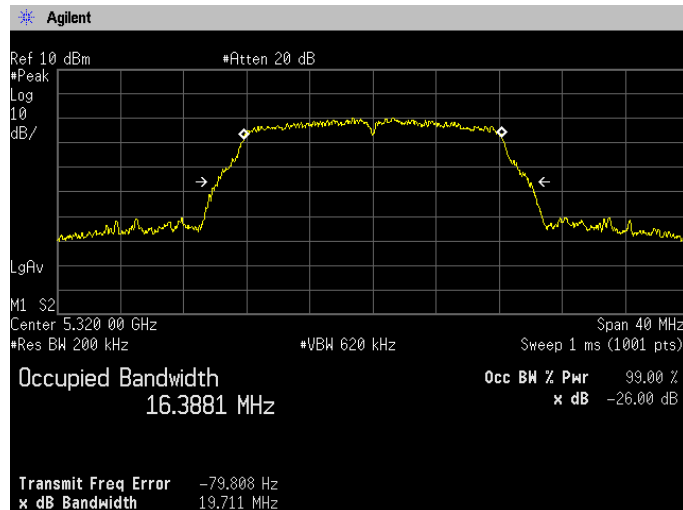
**(5.3 GHz Band)  
Channel: 52**



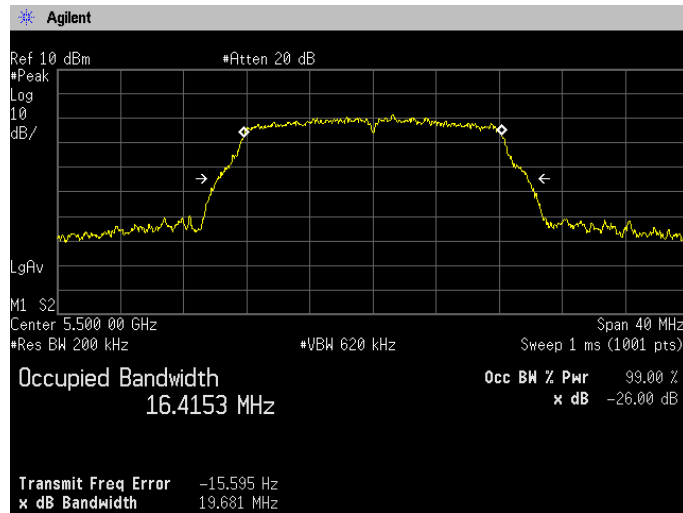
**Channel: 56**



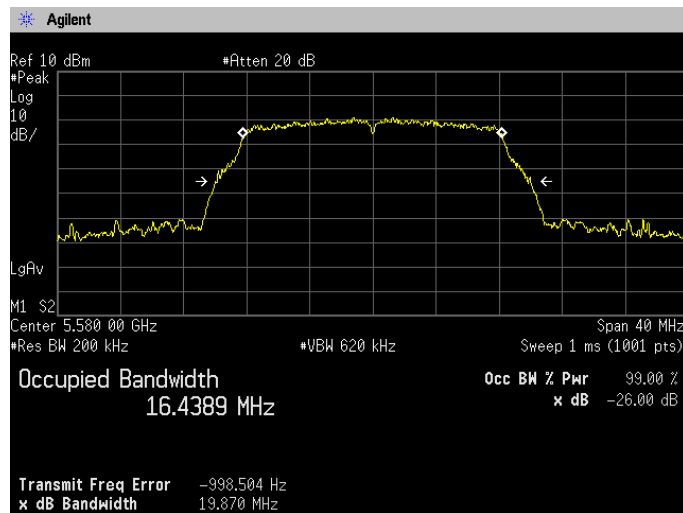
**Channel: 64**



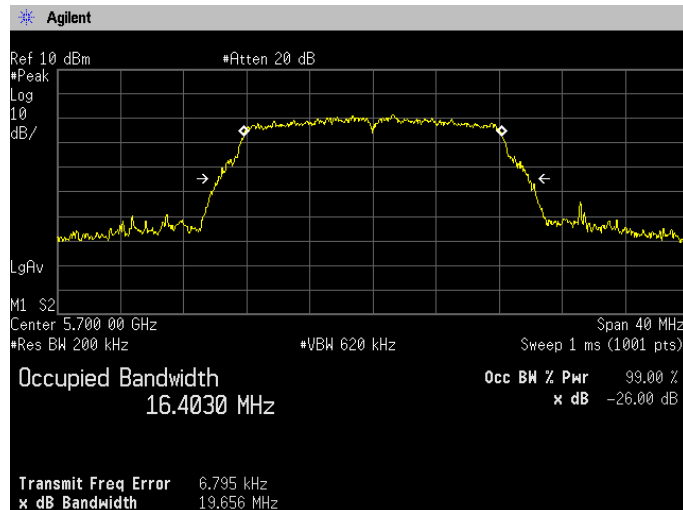
**(5.6 GHz Band)  
Channel: 100**



**Channel: 116**



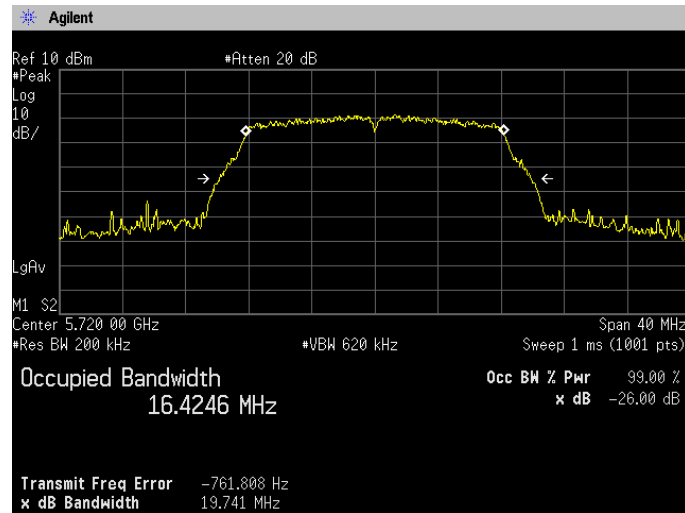
**Channel: 140**





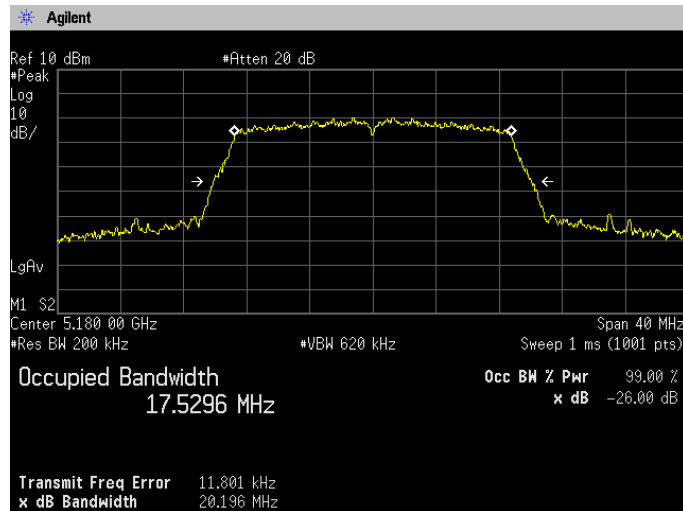


**(5.6 GHz Band)  
Channel: 144**

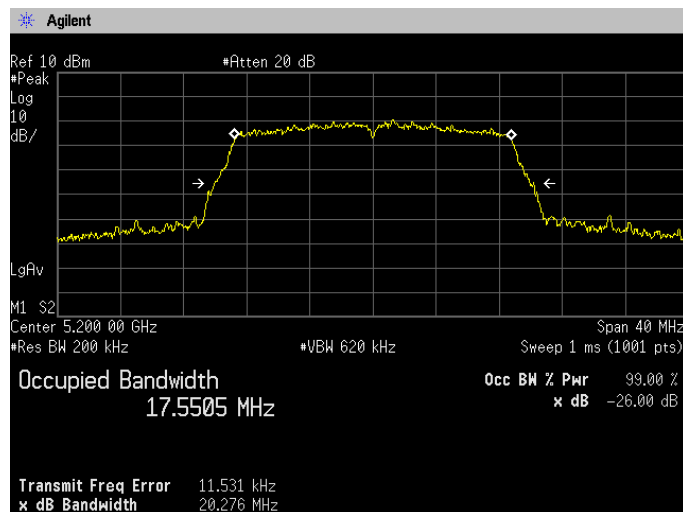




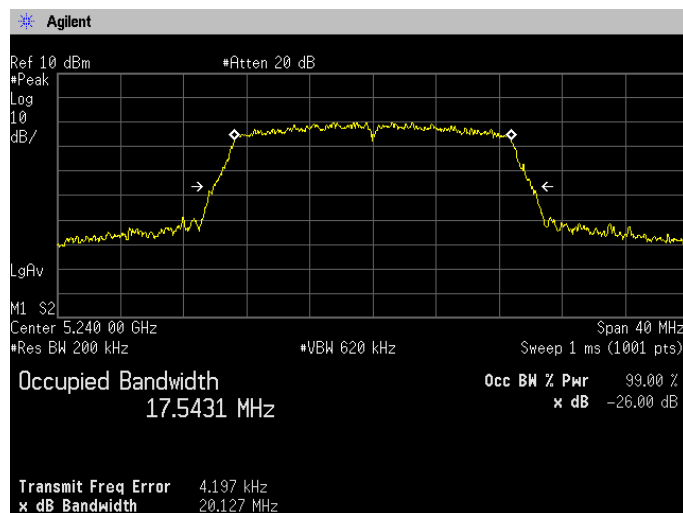
**[IEEE802.11n (HT20)]**  
**(5.2 GHz Band)**  
**Channel: 36**



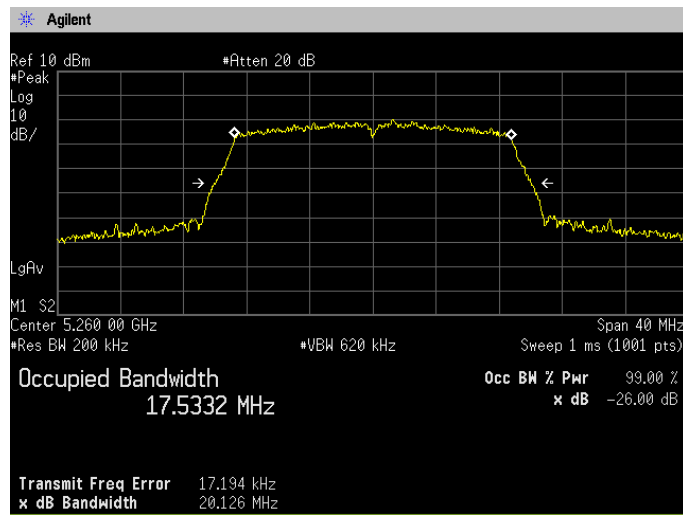
**Channel: 40**



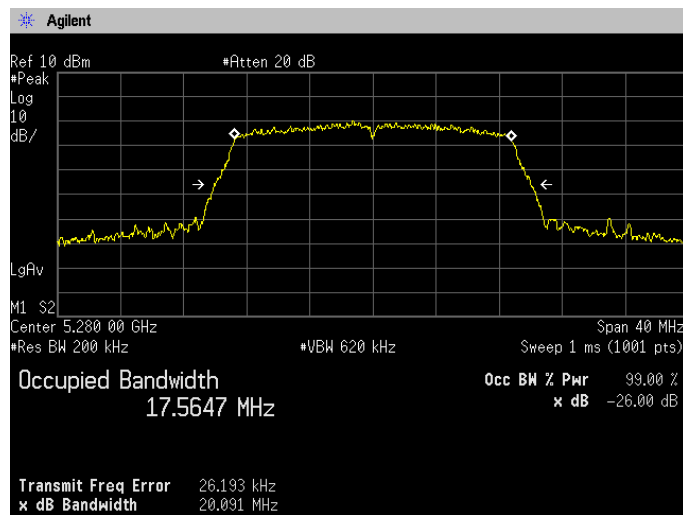
**Channel: 48**



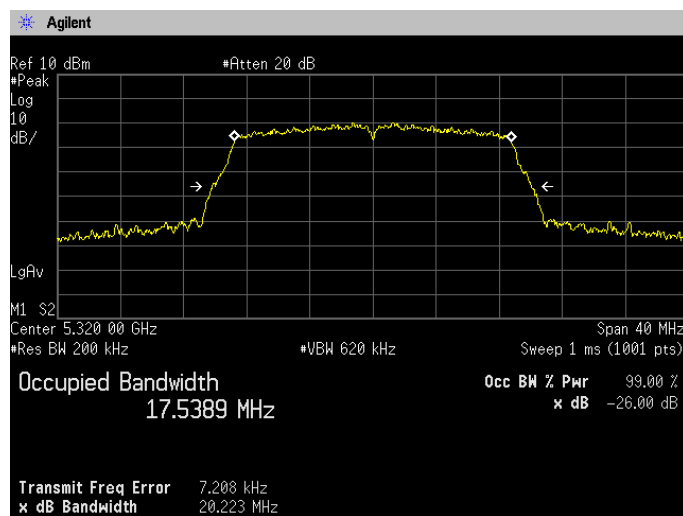
**(5.3 GHz Band)  
Channel: 52**



**Channel: 56**

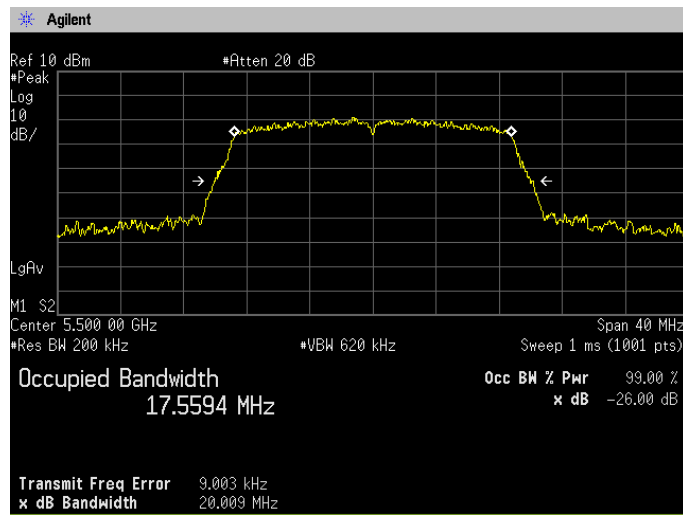


**Channel: 64**

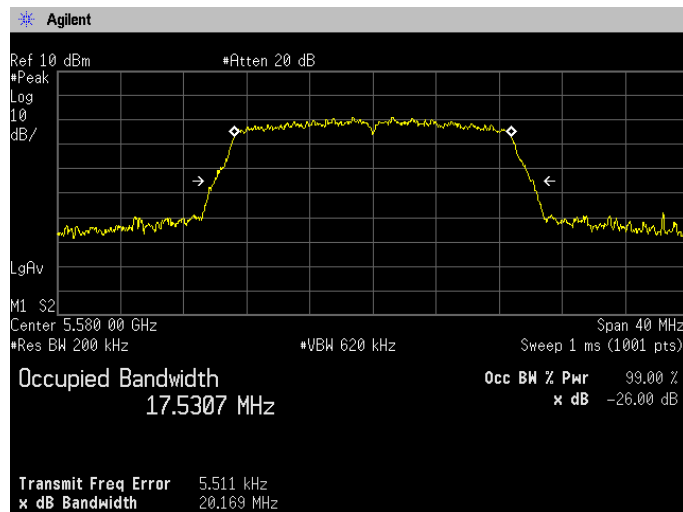




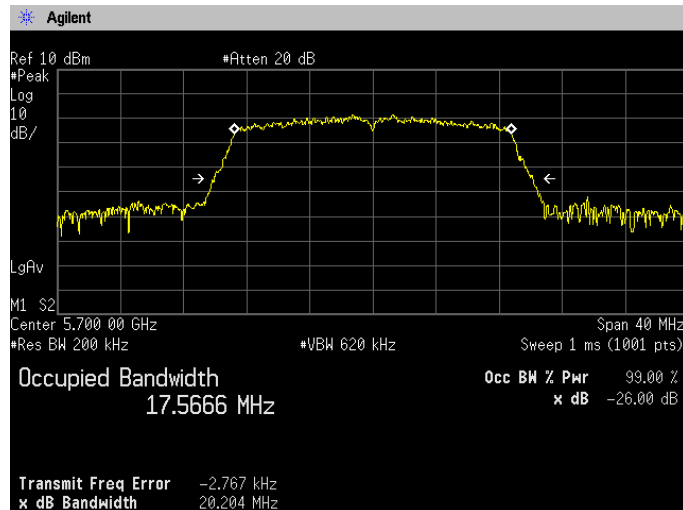
**(5.6 GHz Band)  
Channel: 100**



**Channel: 116**

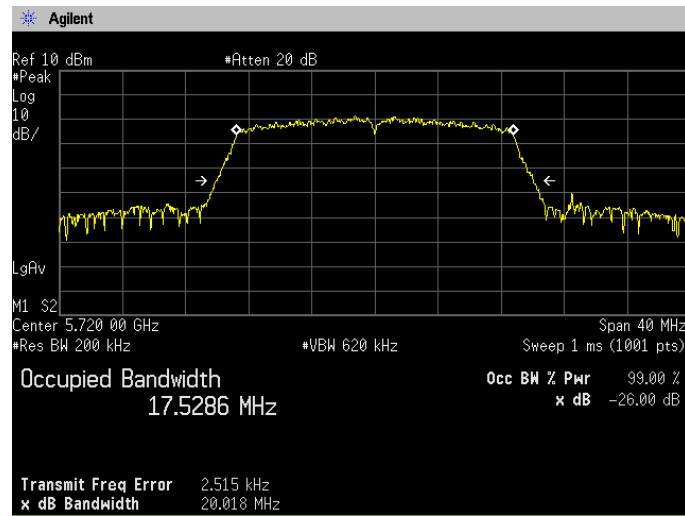


**Channel: 140**



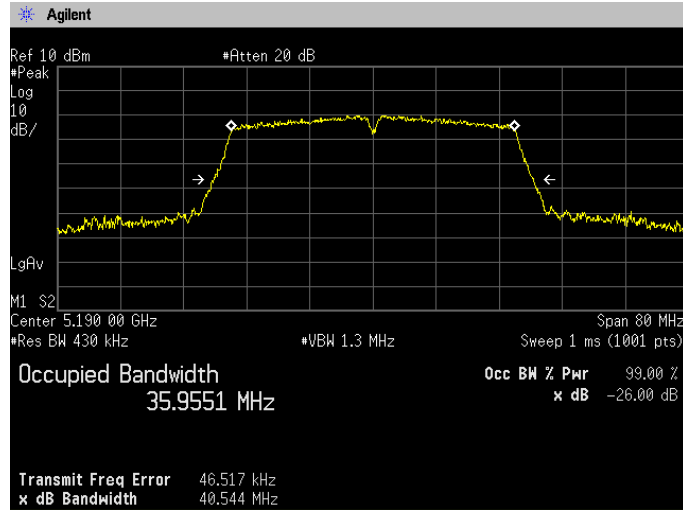
**(5.6 GHz Band)**

**Channel: 144**

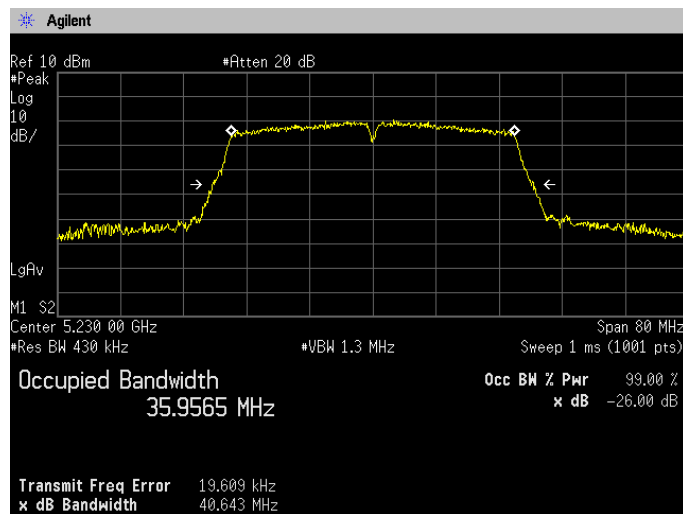




**[IEEE802.11n (HT40)]  
(5.2 GHz Band)  
Channel: 38**

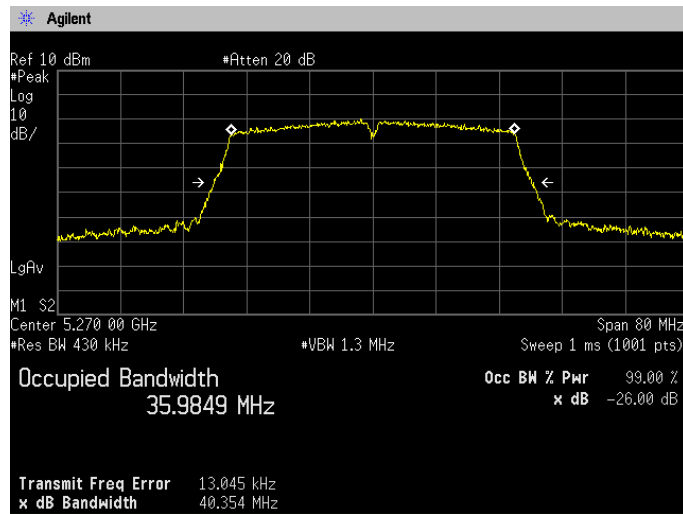


**Channel: 46**

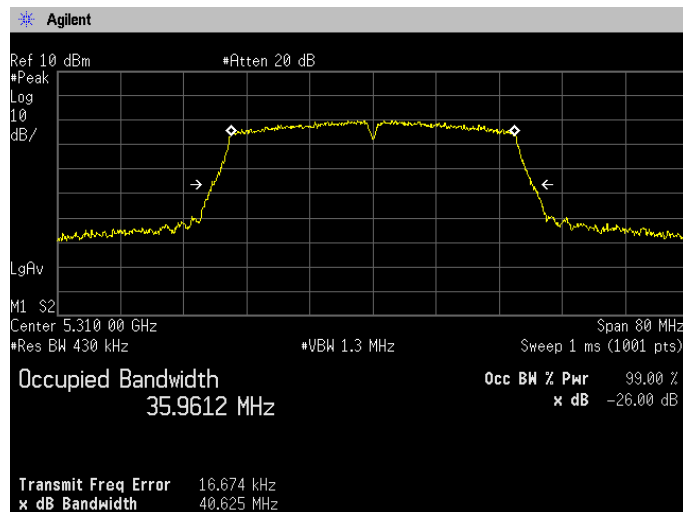




**(5.3 GHz Band)  
Channel: 54**

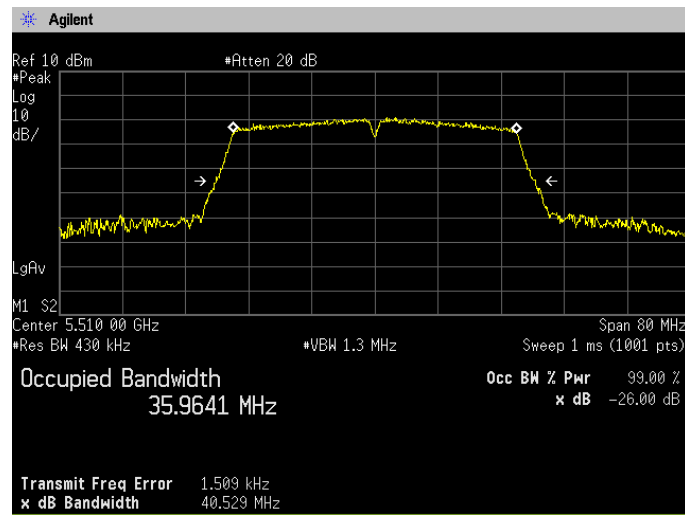


**Channel: 62**

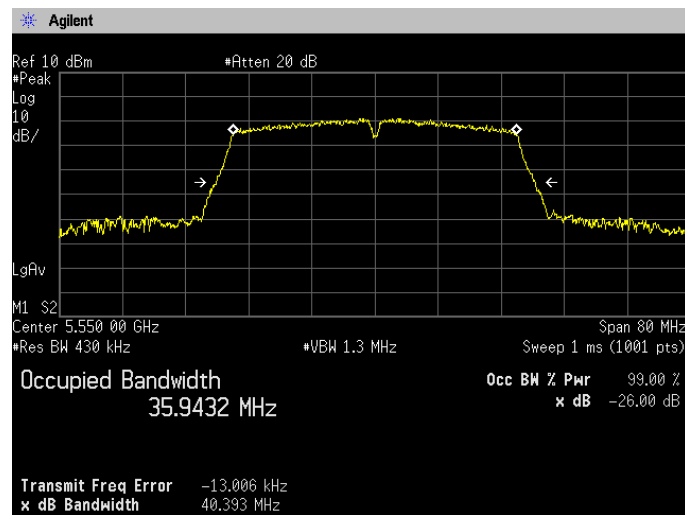




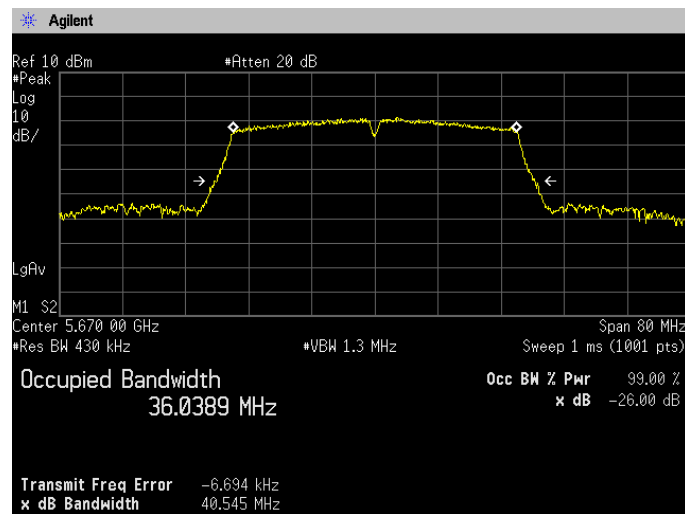
**(5.6 GHz Band)  
Channel: 102**



**Channel: 110**



**Channel: 134**

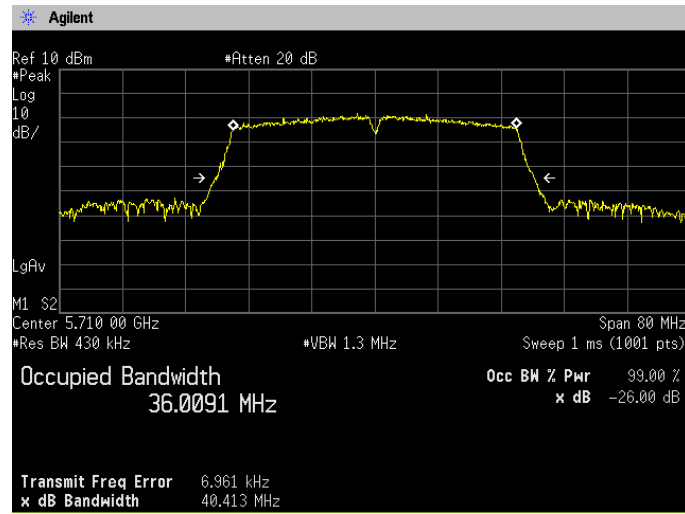






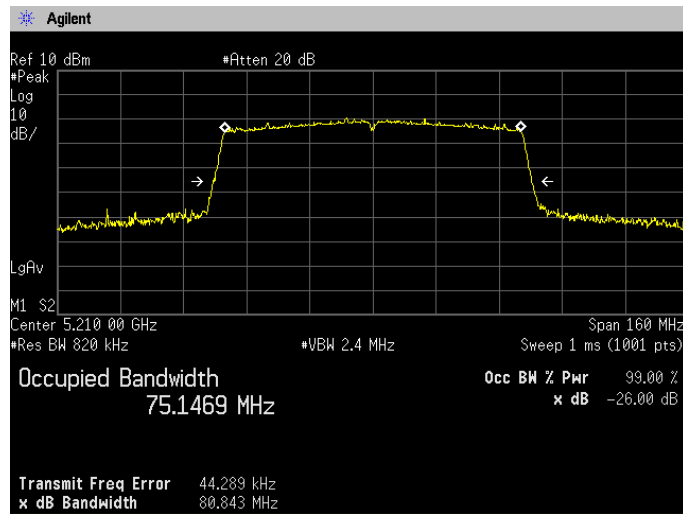
Japan

**(5.6 GHz Band)  
Channel: 142**

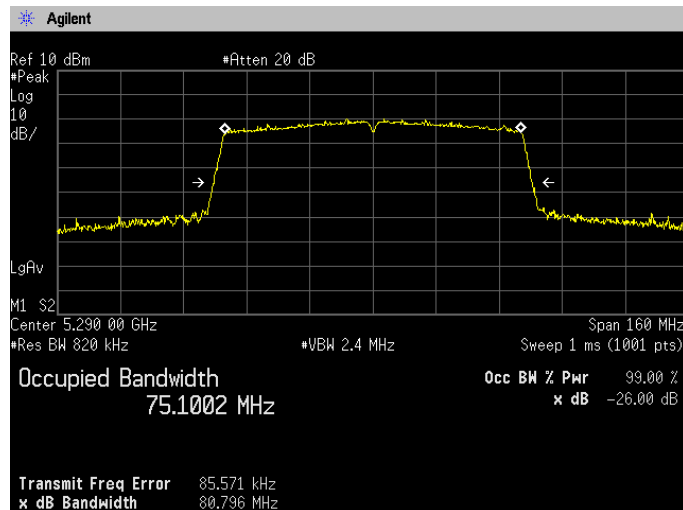




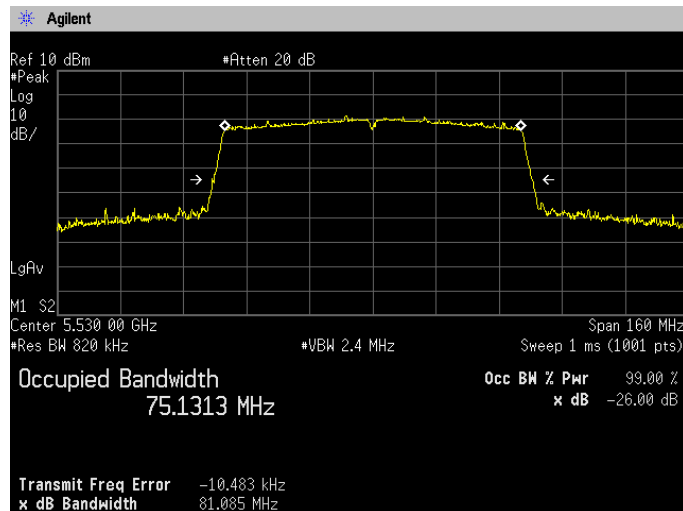
**[IEEE802.11ac (HT80)]  
(5.2 GHz Band)  
Channel: 42**



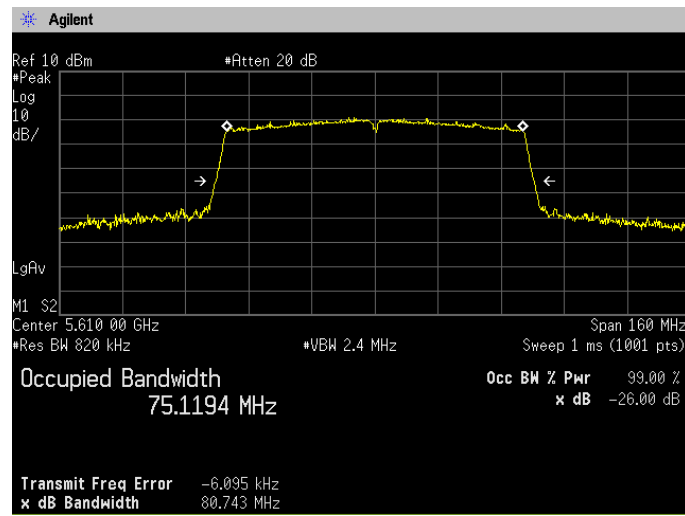
**(5.3GHz Band)  
Channel: 58**



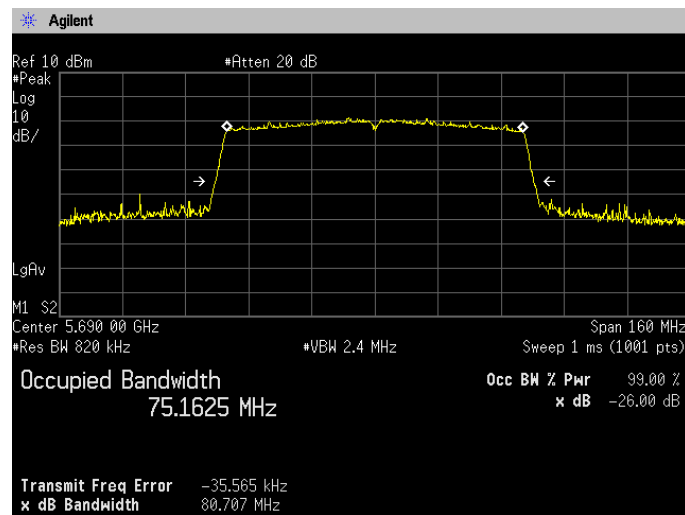
**(5.6 GHz Band)  
Channel: 106**



**(5.6 GHz Band)  
Channel: 122**



**Channel: 138**



## 4.2 Maximum Conducted Output Power

### 4.2.1 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.

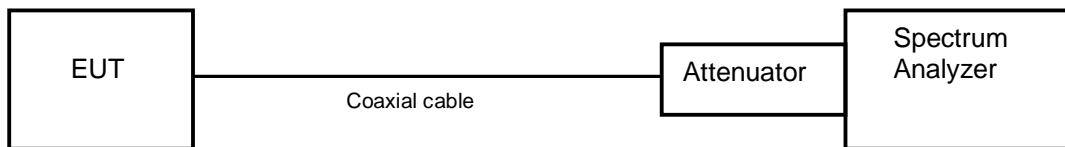
The spectrum analyzer is set to;

- 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



### 4.2.2 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 26dB 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	1.1	23.97
	802.11n HT20				
	802.11n HT20				
	802.11ac HT80				

\*: Tested by EB1146

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	1.1	23.97
		21.893	24.40		
	802.11n HT20	250	23.97		23.97
		22.004	24.43		
	802.11n HT20	250	23.97		23.97
		40.741	27.10		
	802.11ac HT80	250	23.97		23.97
		82.602	30.17		

\*: Tested by EB1146

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	0.6	23.97
		21.957	24.42		
	802.11n HT20	250	23.97		23.97
		22.020	24.43		
	802.11n HT20	250	23.97		23.97
		41.340	27.16		
	802.11ac HT80	250	23.97		23.97
		83.372	30.21		

\*: Tested by EB1146

#### 4.2.3 Measurement result

Date : 8-November-2022  
 Temperature : 21.0 [°C]  
 Humidity : 36.8 [%]  
 Test place : Shielded room No.4

Test engineer : Kazunori Saito

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	10.94	1.376	1.412	0.975	0.110	11.050	12.735
	40	5200	11.05					11.160	13.062
	58	5240	11.15					11.260	13.366
	52	5260	10.59	1.394	1.430	0.975	0.110	10.700	11.749
	56	5280	10.75					10.860	12.190
	64	5320	10.83					10.940	12.417
	100	5500	11.79	1.342	1.382	0.971	0.128	11.918	15.552
	116	5580	11.80					11.928	15.588
	140	5700	11.48					11.608	14.481
	144	5720	11.40					11.528	14.217

\*: Tested by EB1146

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	10.78	1.288	1.324	0.973	0.119	10.899	12.300
	40	5200	10.39					10.509	11.243
	58	5240	10.46					10.579	11.426
	52	5260	9.97	1.392	1.430	0.973	0.119	10.089	10.207
	56	5280	10.62					10.739	11.855
	64	5320	10.23					10.349	10.837
	100	5500	11.19	1.260	1.298	0.971	0.128	11.318	13.546
	116	5580	11.14					11.268	13.391
	140	5700	11.32					11.448	13.957
	144	5720	11.28					11.408	13.829

\*: Tested by EB1146

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 (40MHz)	38	5190	10.80	0.636	0.672	0.946	0.241	11.041	12.709
	46	5230	10.87					11.111	12.915
	54	5270	10.46	0.636	0.672	0.946	0.241	10.701	11.752
	62	5310	10.70					10.941	12.419
	102	5510	11.67	0.637	0.672	0.948	0.232	11.902	15.495
	110	5550	11.86					12.092	16.188
	134	5670	11.35					11.582	14.395
	142	5710	11.38					11.612	14.494

\*: Tested by EB1146

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	10.54	0.325	0.360	0.903	0.443	10.983	12.540
	58	5290	10.20	0.325	0.360	0.903	0.443	10.643	11.596
	106	5530	11.41	0.324	0.359	0.903	0.443	11.853	15.321
	122	5610	11.29	0.315	0.352	0.895	0.482	11.772	15.038
	138	5690	10.94	0.324	0.359	0.903	0.443	11.383	13.750

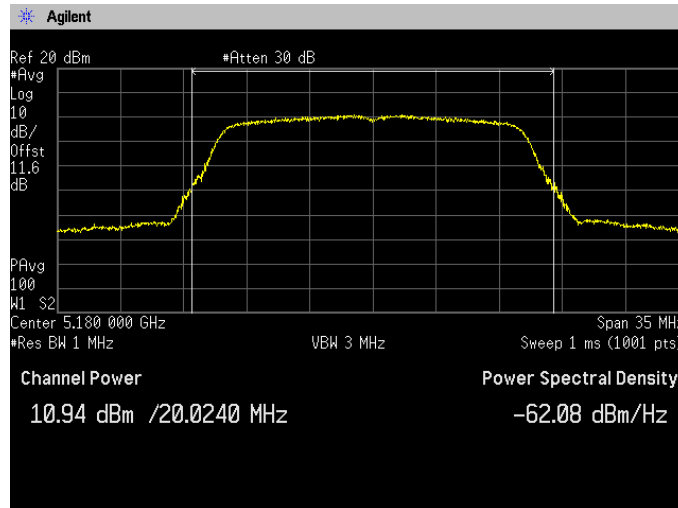
\*: Tested by EB1146

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

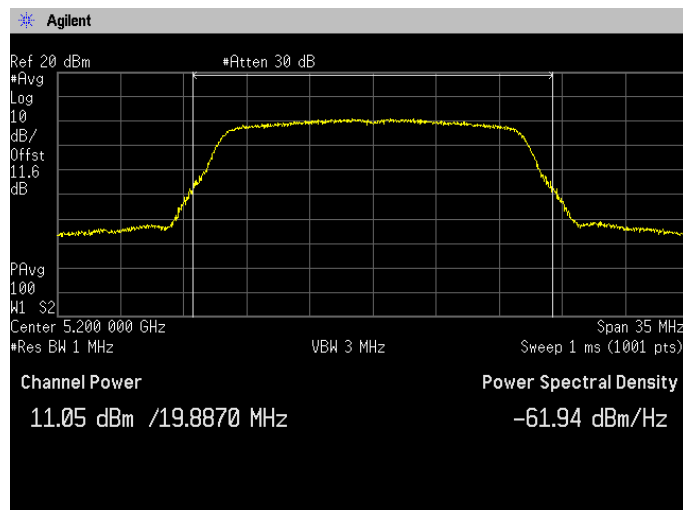
Note2:  $\text{Test Result} = \text{Reading} + \text{DCF}$

#### 4.2.4 Trace data

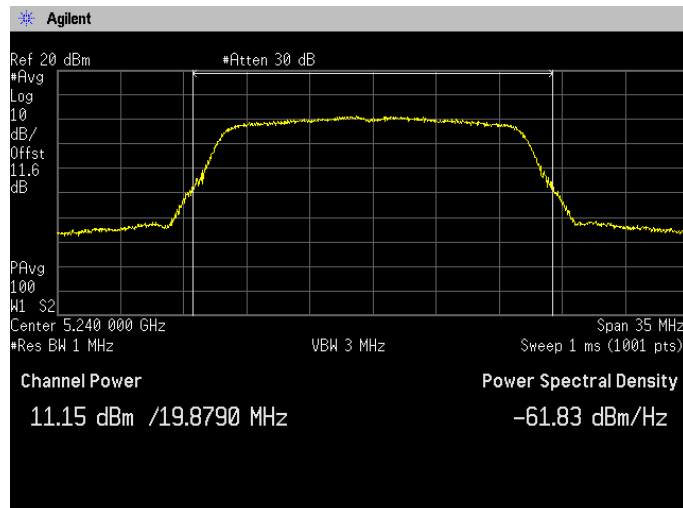
[IEEE802.11a]  
 (5.2 GHz Band)  
 Channel: 36



Channel: 40

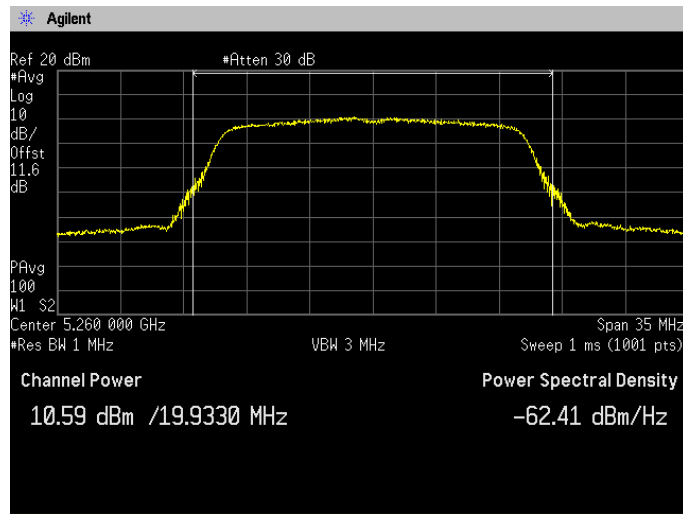


Channel: 48

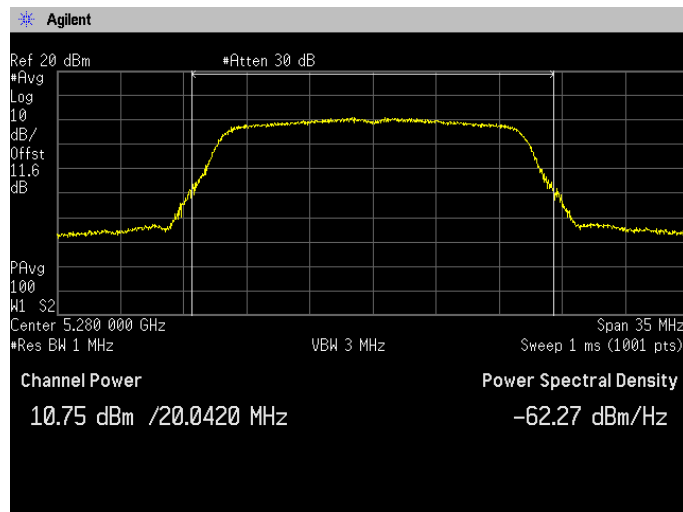




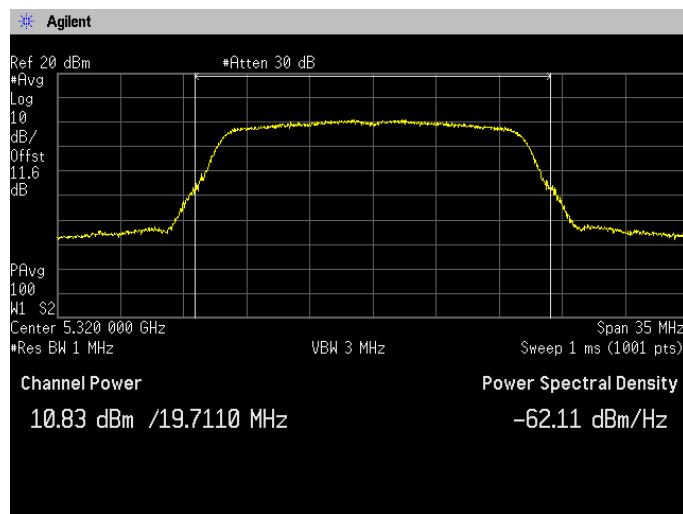
**(5.3 GHz Band)  
Channel: 52**



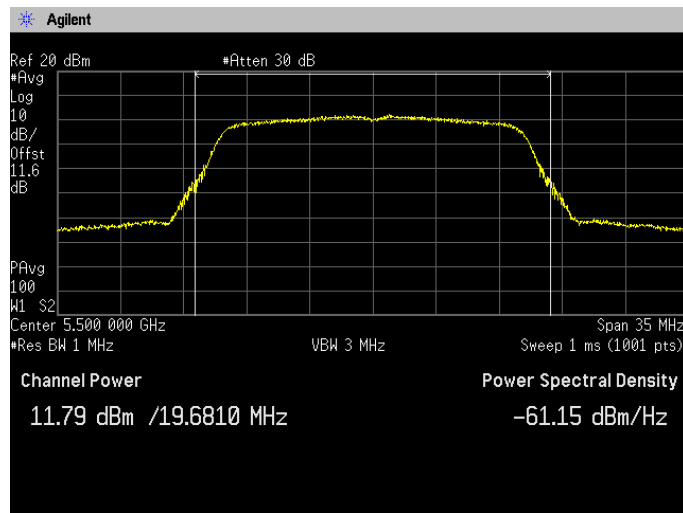
**Channel: 56**



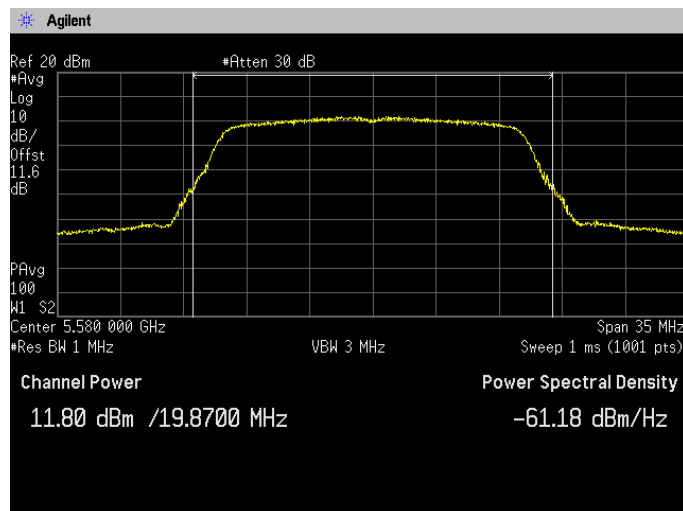
**Channel: 64**



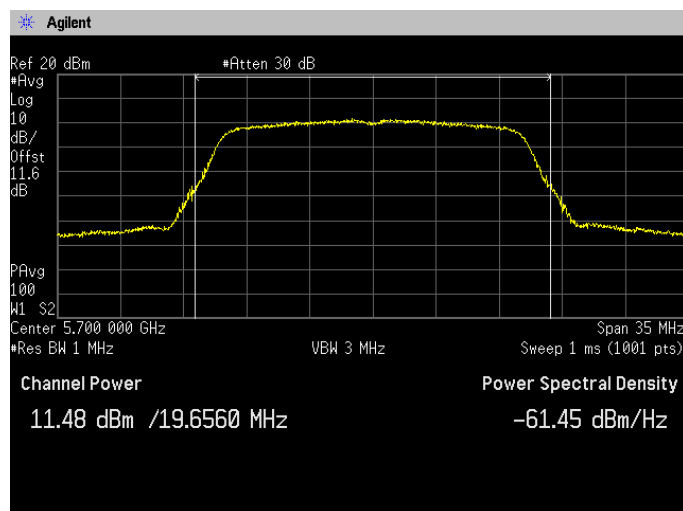
**(5.6 GHz Band)  
Channel: 100**



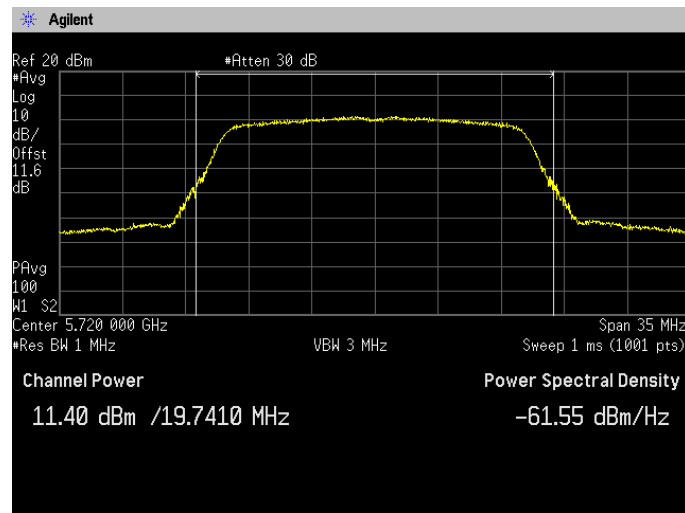
**Channel: 116**



**Channel: 140**

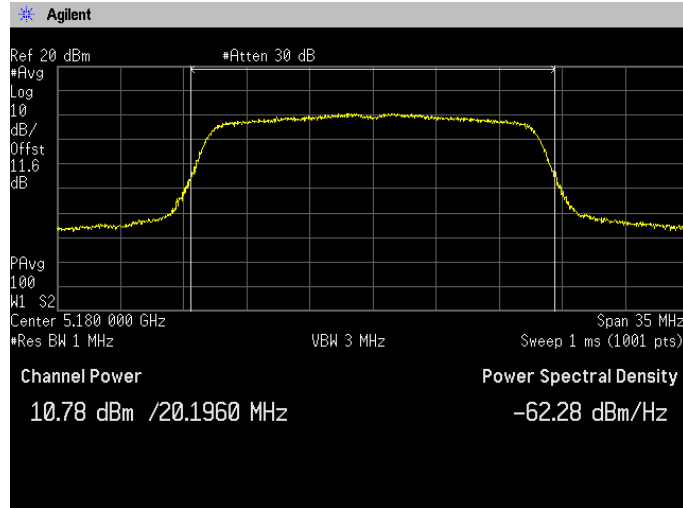


**(5.6 GHz Band)  
Channel: 144**

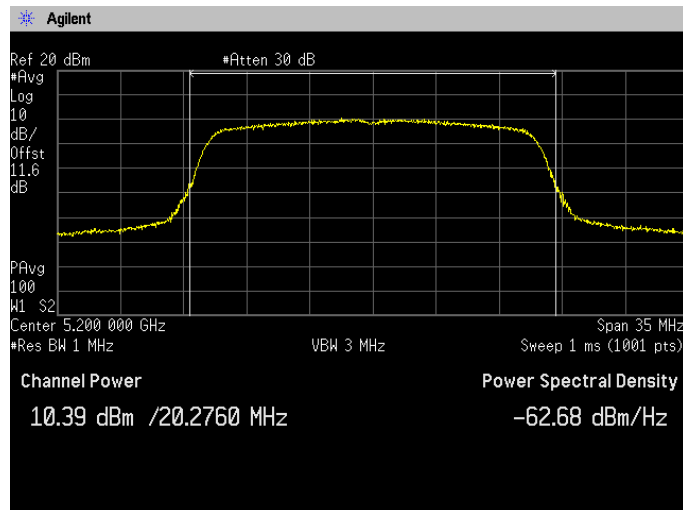




**[IEEE802.11n (HT20)]  
(5.2 GHz Band)  
Channel: 36**

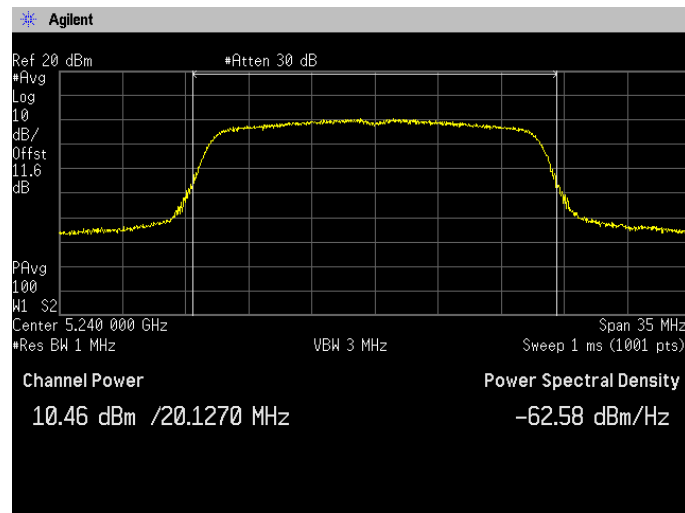


**Channel: 40**

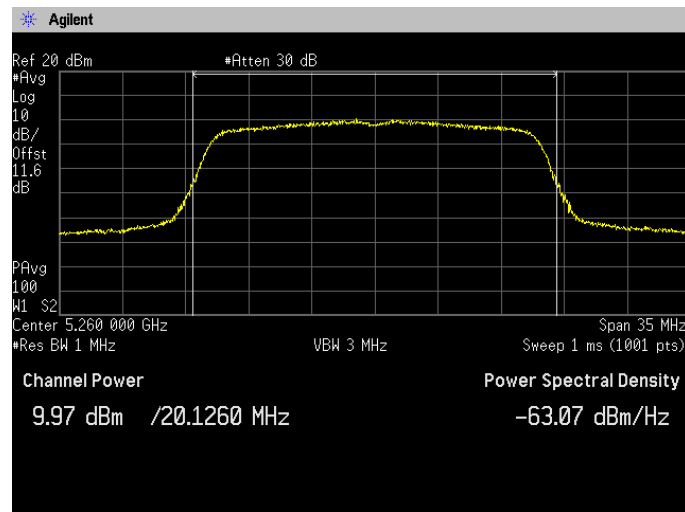




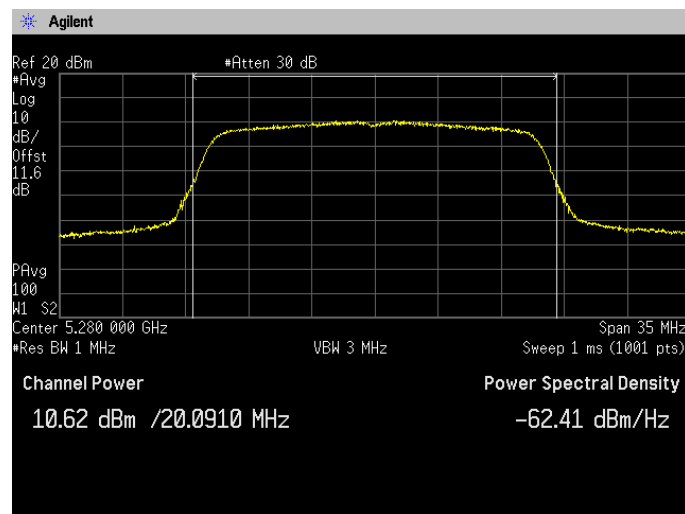
**(5.2 GHz Band)  
Channel: 48**



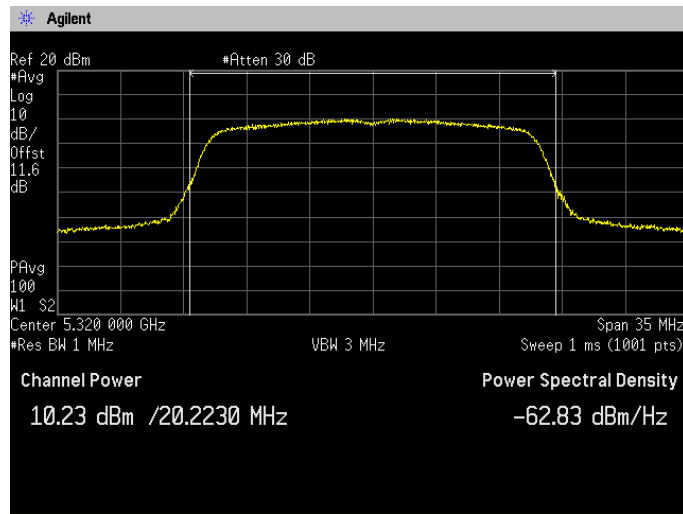
**(5.3 GHz Band)  
Channel: 52**



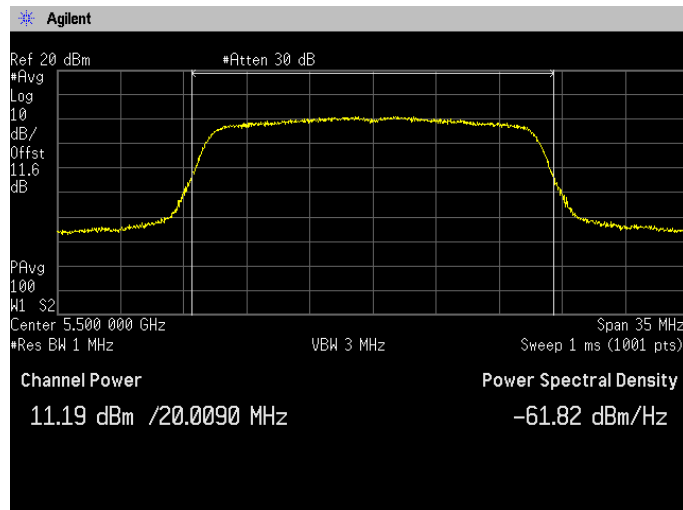
**Channel: 56**



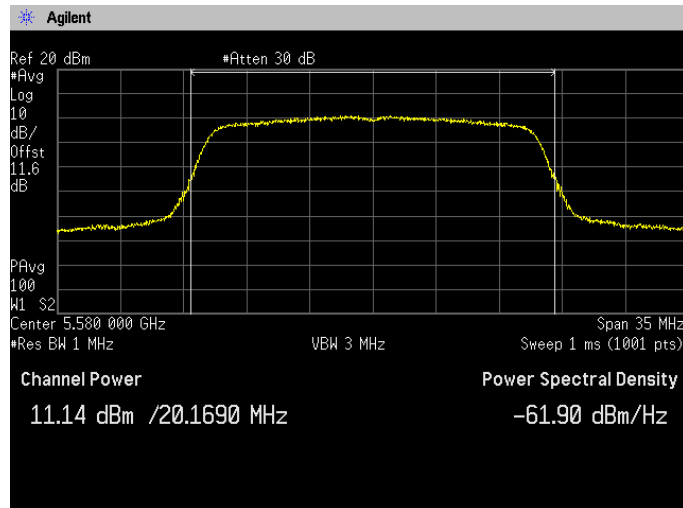
**(5.3 GHz Band)  
Channel: 64**



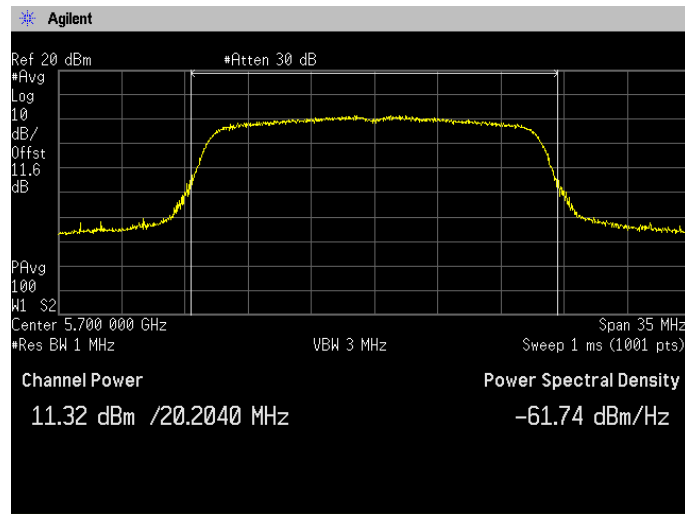
**(5.6 GHz Band)  
Channel: 100**



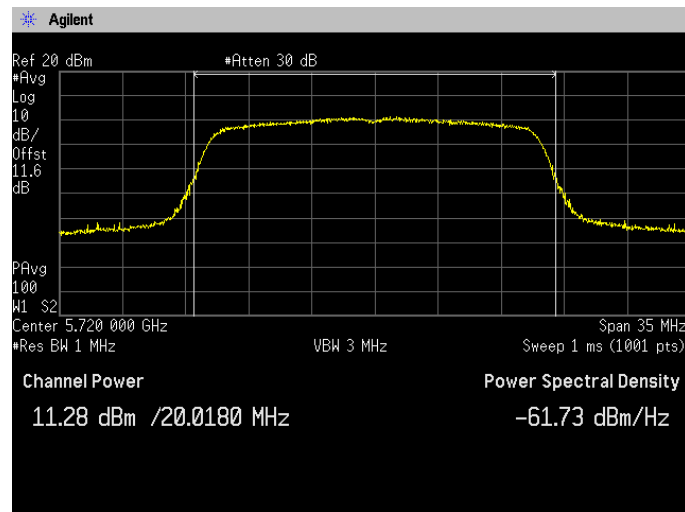
**Channel: 116**



**(5.6 GHz Band)  
Channel: 140**

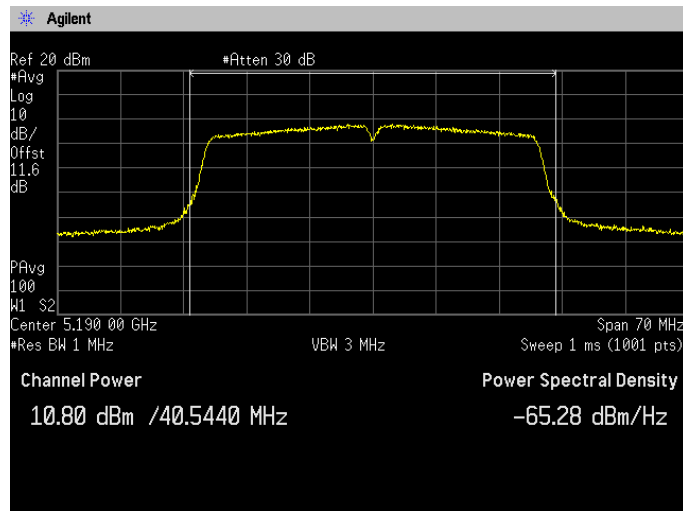


**Channel: 144**

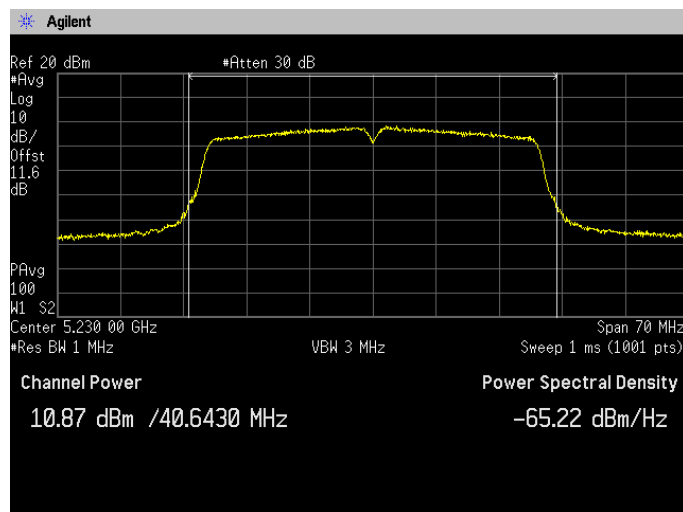




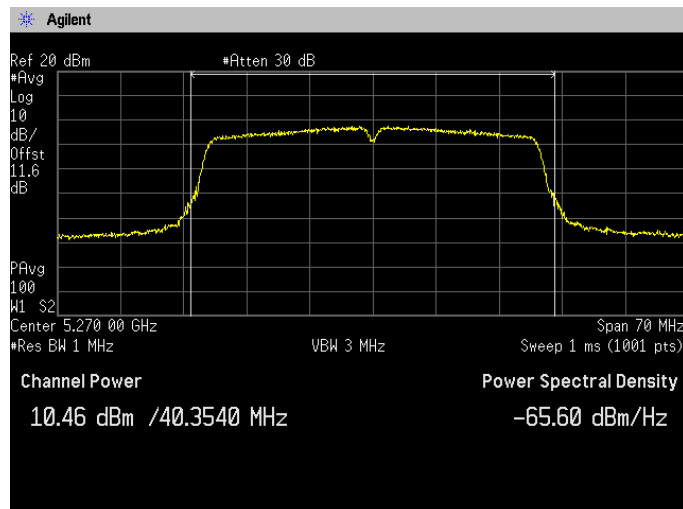
**[IEEE802.11n (HT40)]  
(5.2 GHz Band)  
Channel: 38**



**(5.2 GHz Band)  
Channel: 46**



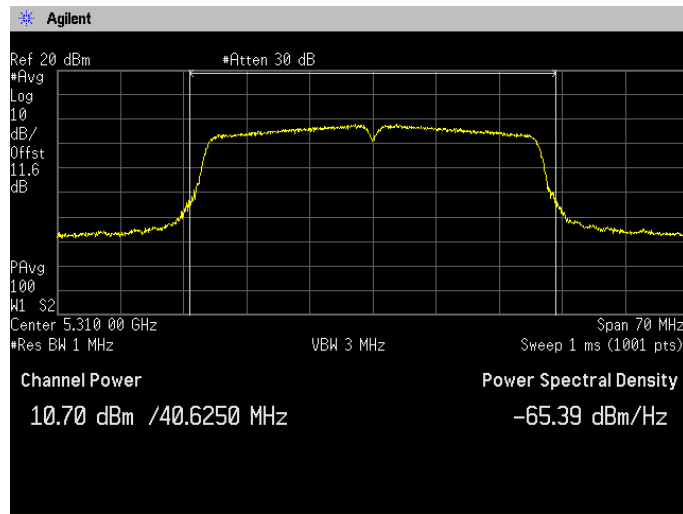
**(5.3 GHz Band)  
Channel: 54**



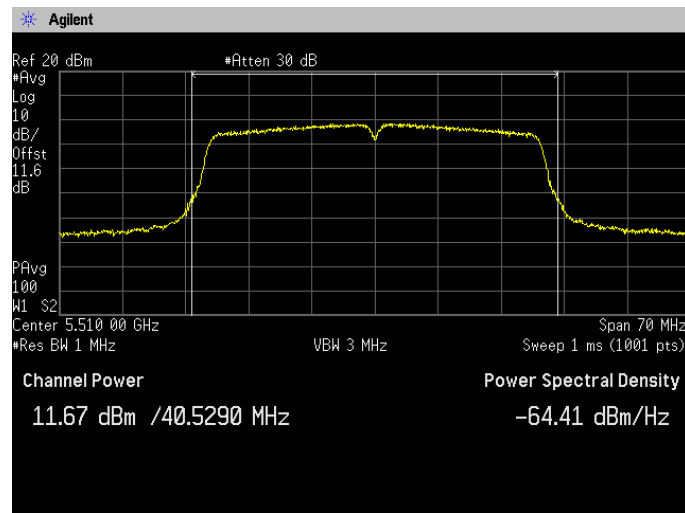




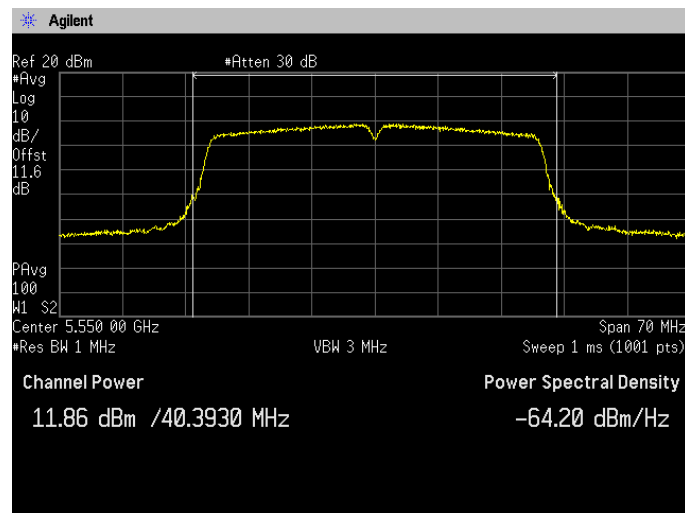
**(5.3 GHz Band)  
Channel: 62**



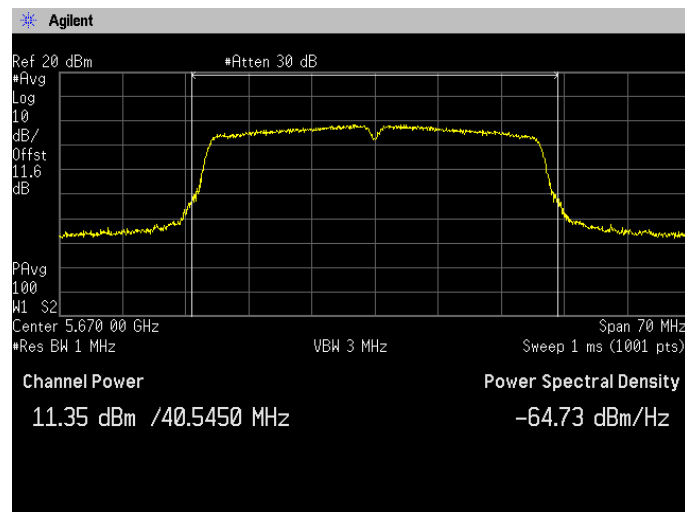
**(5.6 GHz Band)  
Channel: 102**



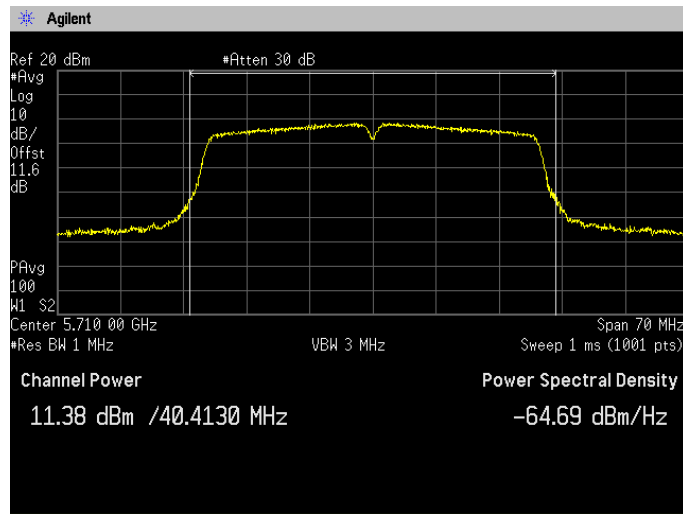
**Channel: 110**



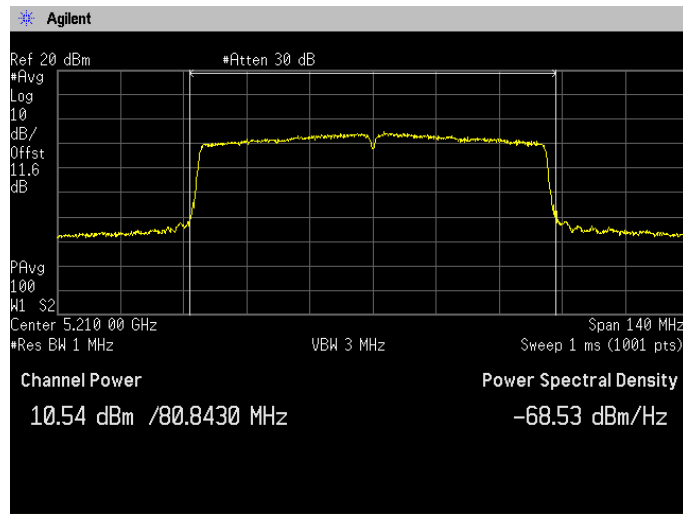
**Channel: 134**



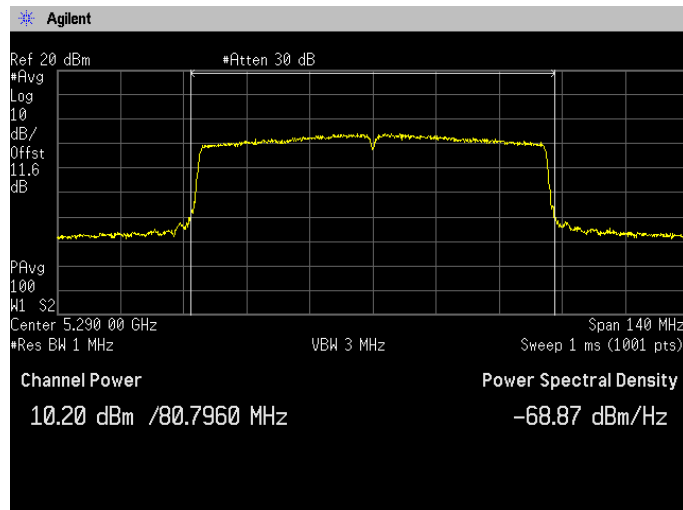
**(5.6 GHz Band)  
Channel: 142**



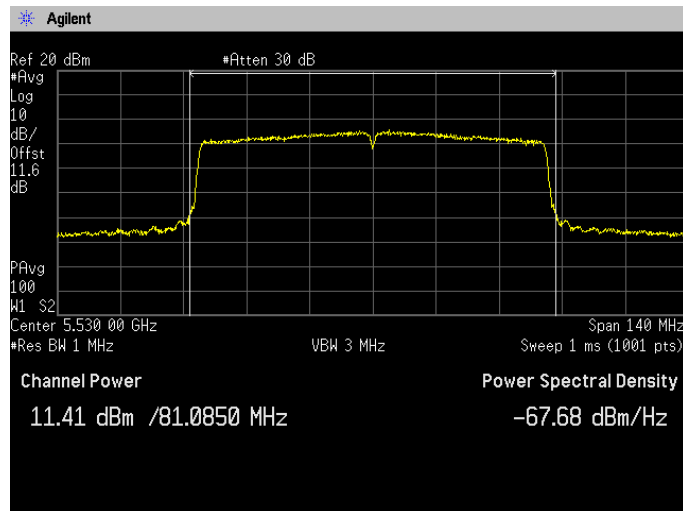
**[IEEE802.11ac (HT80)]**  
**(5.2 GHz Band)**  
**Channel: 42**



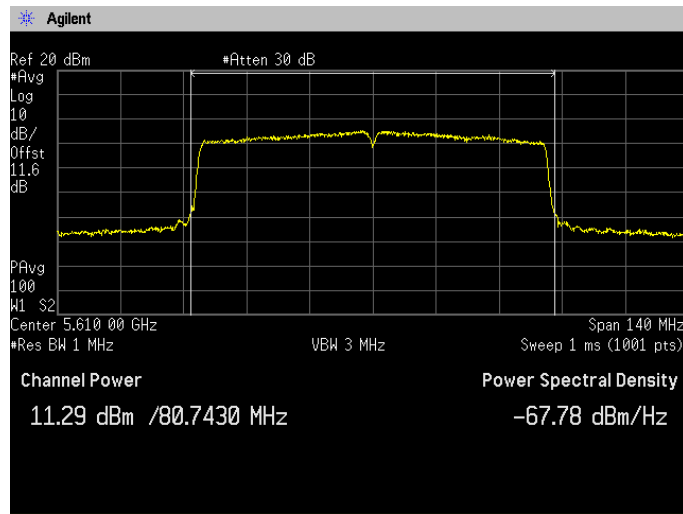
**(5.3GHz Band)**  
**Channel: 58**



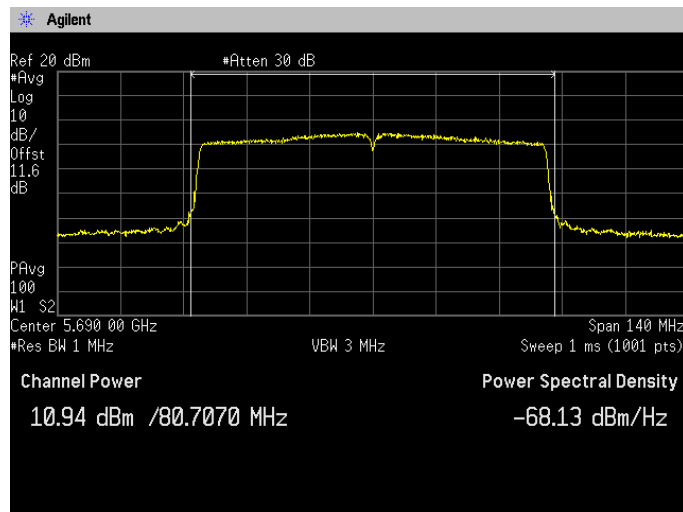
**(5.6 GHz Band)**  
**Channel: 106**



**(5.6 GHz Band)  
Channel: 122**



**Channel: 138**



### 4.3 Peak Power Spectral Density

#### 4.3.1 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

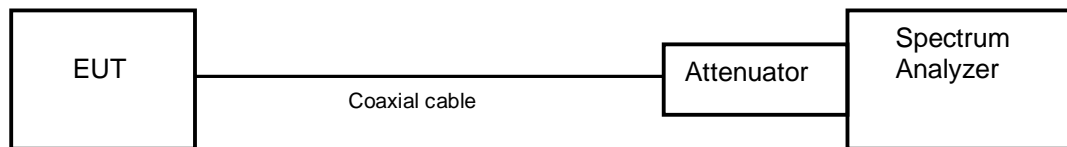
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band, 5.8 GHz 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 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, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, 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	Limit (dBm)	Antenna Gain (dBi)	Determined Limit (dBm)
5.2, 5.3 GHz Band	11	1.1	12.1 dBm/MHz
5.6 GHz Band	11	0.6	11.6 dBm/MHz

\*: Tested by EB1146

### 4.3.3 Measurement result

Date : 8-November-2022  
 Temperature : 21.0 [°C]  
 Humidity : 36.8 [%]  
 Test place : Shielded room No.4

Test engineer : Kazunori Saito

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	0.629	1.376	1.412	0.975	0.110	0.739
	40	5200	0.728					0.838
	48	5240	1.047					1.157
	52	5260	0.657	1.394	1.430	0.975	0.110	0.767
	56	5280	0.457					0.567
	64	5320	0.684					0.794
	100	5500	1.590	1.342	1.382	0.971	0.128	1.718
	116	5580	1.833					1.961
	140	5700	2.003					2.131
144	5720	1.841	1.969					

\*: Tested by EB1146

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	0.413	1.288	1.324	0.973	0.119	0.532
	40	5200	0.346					0.465
	48	5240	0.568					0.687
	52	5260	0.501	1.392	1.430	0.973	0.119	0.620
	56	5280	0.466					0.585
	64	5320	0.336					0.455
	100	5500	1.738	1.260	1.298	0.971	0.128	1.866
	116	5580	1.686					1.814
	140	5700	1.761					1.889
144	5720	1.675	1.803					

\*: Tested by EB1146

Note 1: 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	-2.104	0.636	0.672	0.946	0.241	-1.863
	46	5230	-2.040					-1.799
	54	5270	-2.447	0.636	0.672	0.946	0.241	-2.206
	62	5310	-2.361					-2.120
	102	5510	-1.521	0.637	0.672	0.948	0.232	-1.289
	110	5550	-1.322					-1.090
	134	5670	-1.409					-1.177
	142	5710	-1.127					-0.895

\*: Tested by EB1146

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	-5.751	0.325	0.360	0.903	0.443	-5.308
	58	5290	-5.800	0.325	0.360	0.903	0.443	-5.357
	106	5530	-4.395	0.324	0.359	0.903	0.443	-3.952
	122	5610	-4.905	0.324	0.359	0.903	0.443	-4.462
	138	5690	-4.496	0.315	0.352	0.895	0.482	-4.014

\*: Tested by EB1146

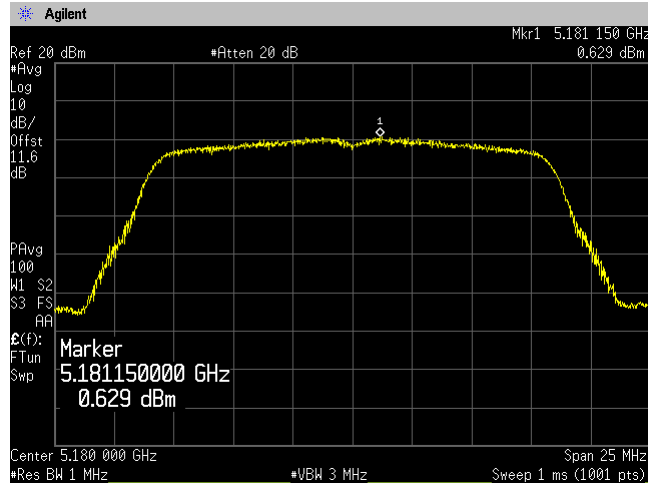
Note 1:  $X = \text{On time} / (\text{On} + \text{Off time})$ ,  $\text{DCF} = 10 \log (1/x)$

Note 2:  $\text{Test Result} = \text{Reading} + \text{DCF}$

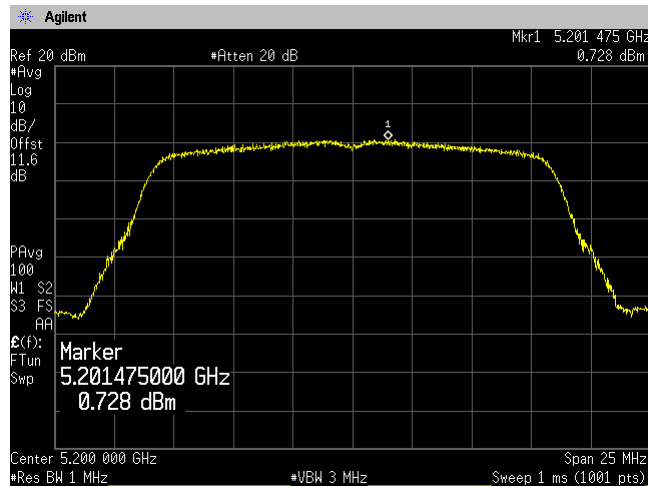


### 4.3.4 Trace data

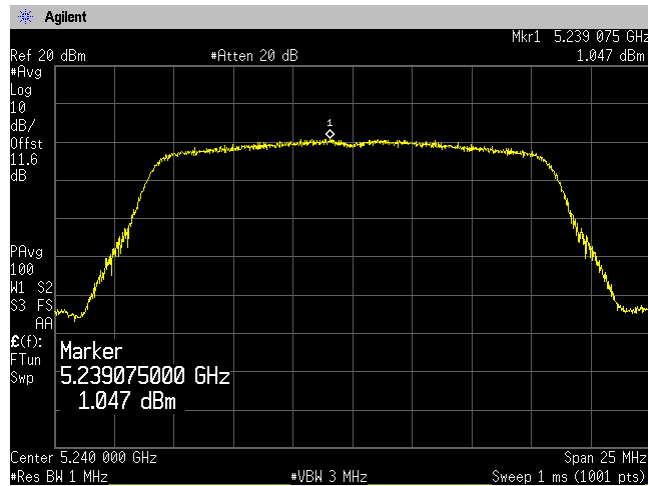
[IEEE802.11a]  
(5.2 GHz Band)  
Channel: 36



Channel: 40

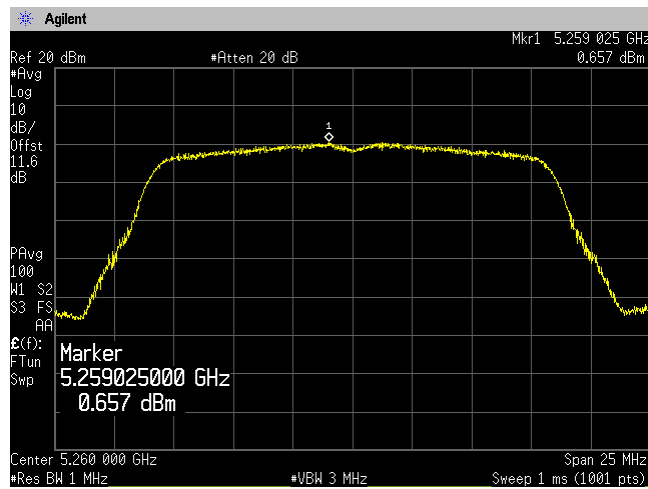


Channel: 48

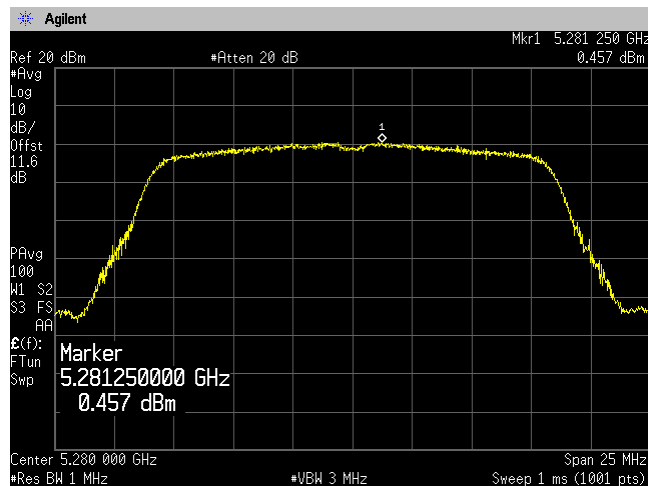




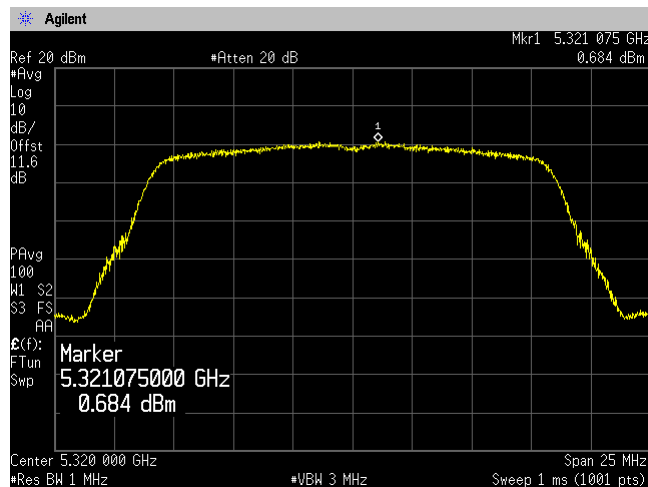
**(5.3 GHz Band)  
Channel: 52**



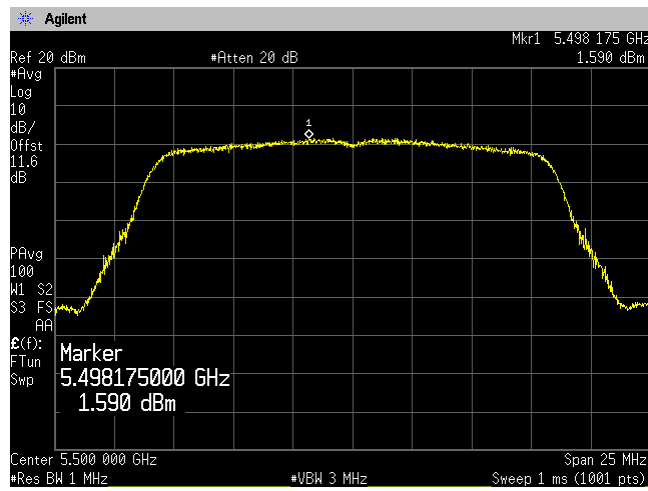
**Channel: 56**



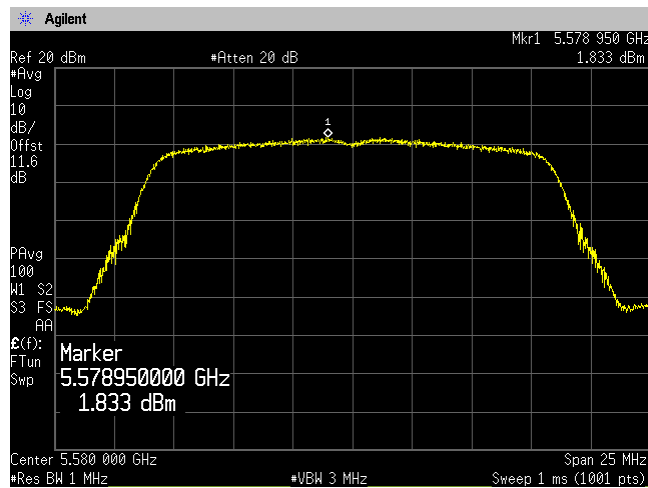
**Channel: 64**



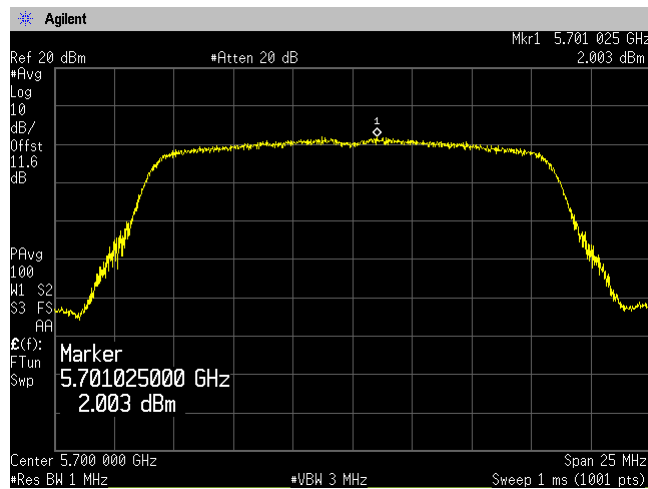
**(5.6 GHz Band)  
Channel: 100**



**Channel: 116**



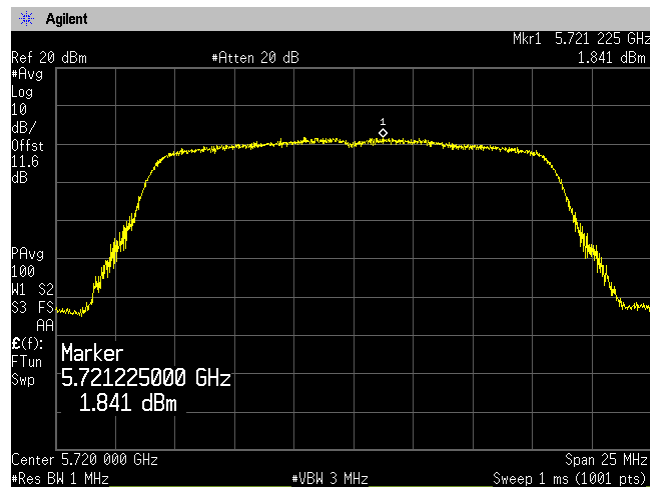
**Channel: 140**





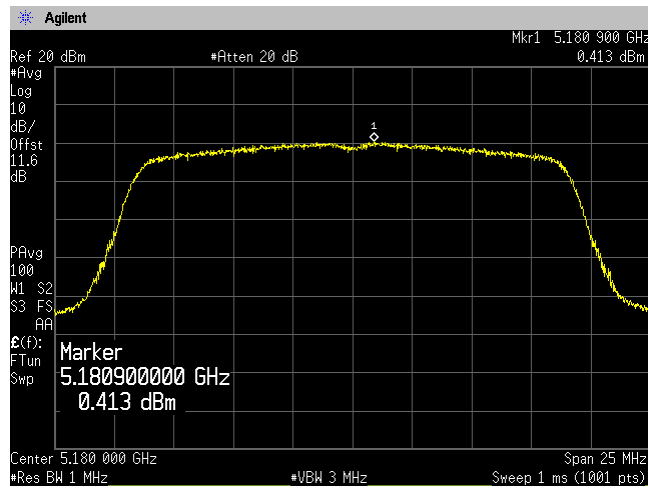
Japan

**(5.6 GHz Band)  
Channel: 144**

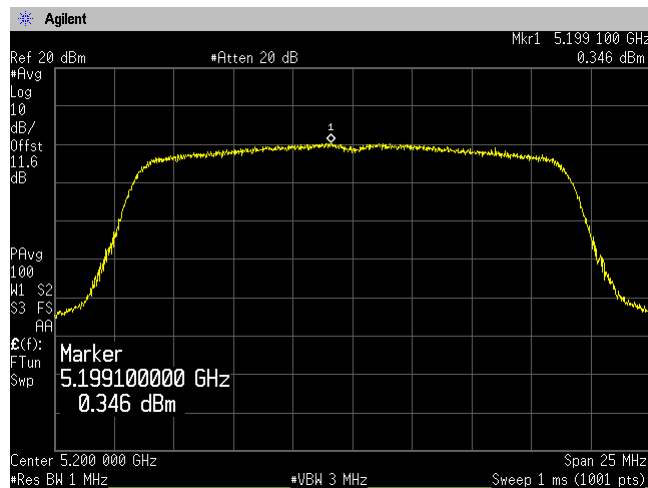




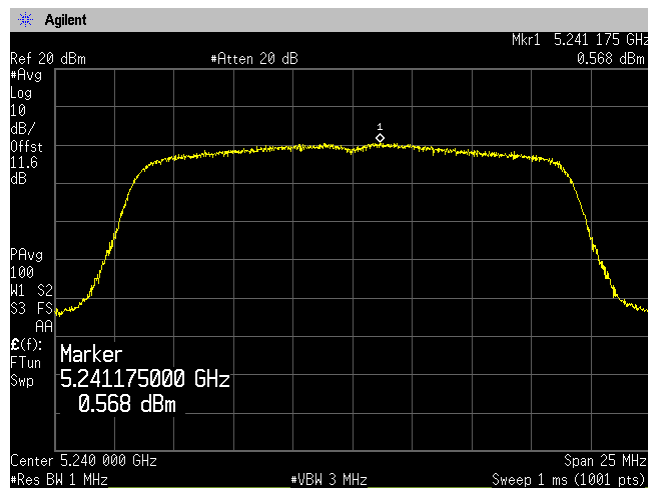
**[IEEE802.11n (HT20)]**  
**(5.2 GHz Band)**  
**Channel: 36**



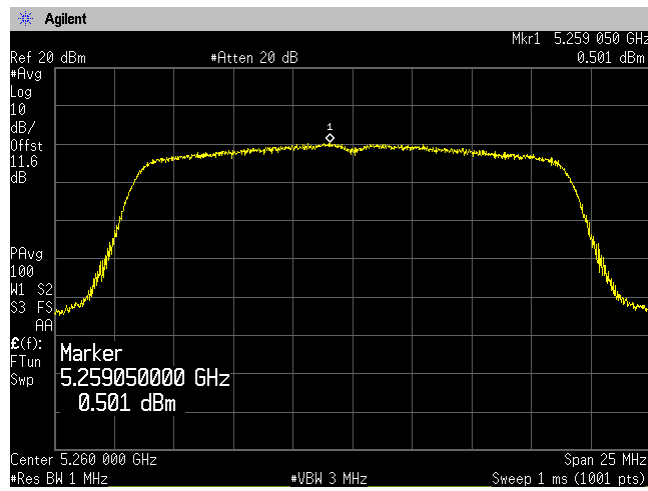
**Channel: 40**



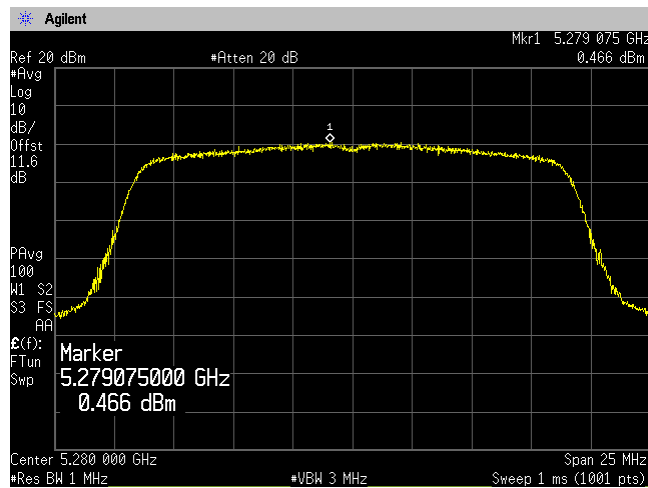
**Channel: 48**



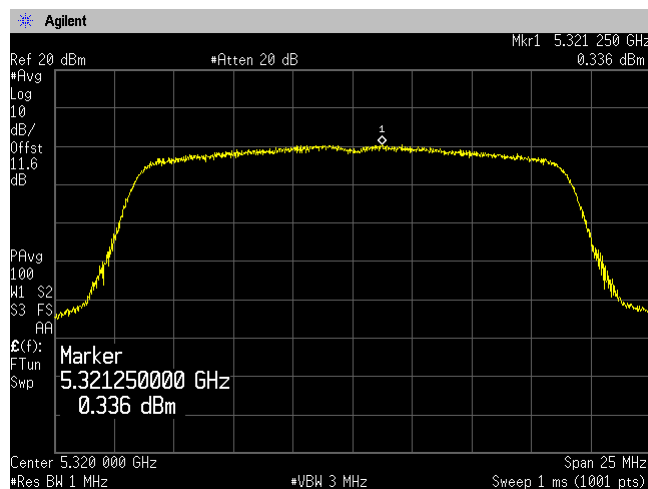
**(5.3 GHz Band)  
Channel: 52**



**Channel: 56**

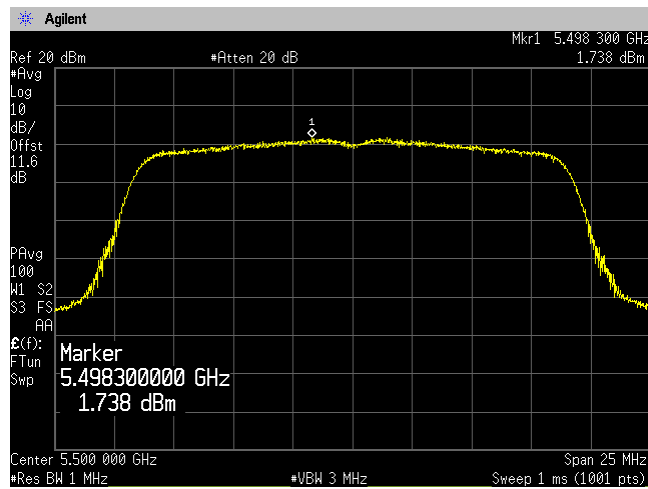


**Channel: 64**

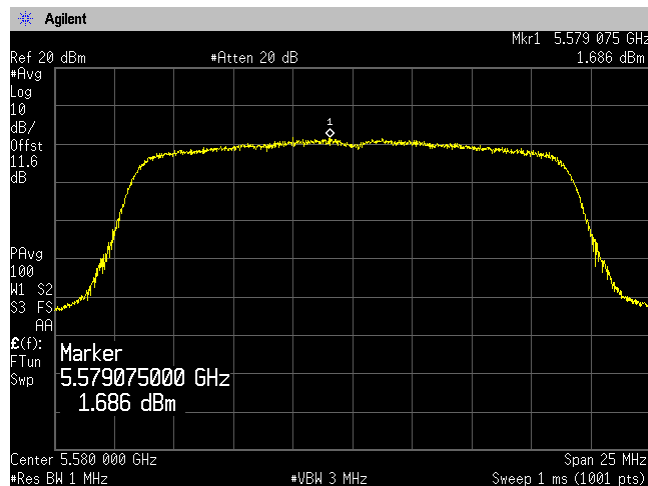




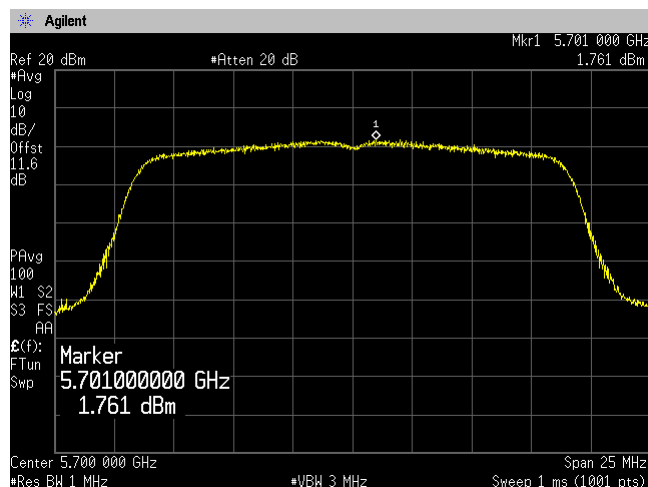
**(5.6 GHz Band)  
Channel: 100**



**Channel: 116**



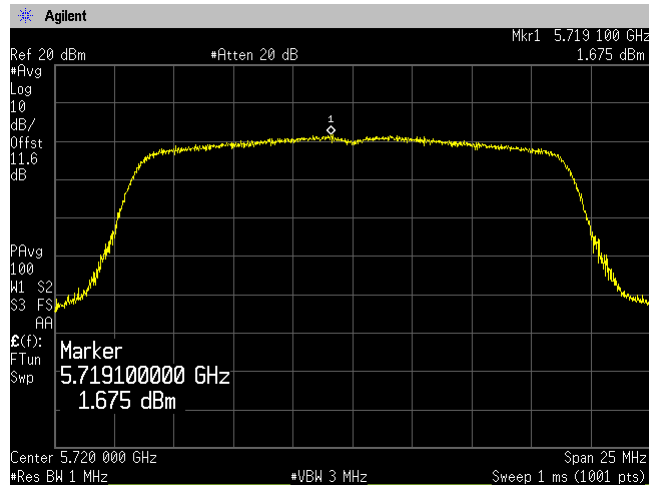
**Channel: 140**





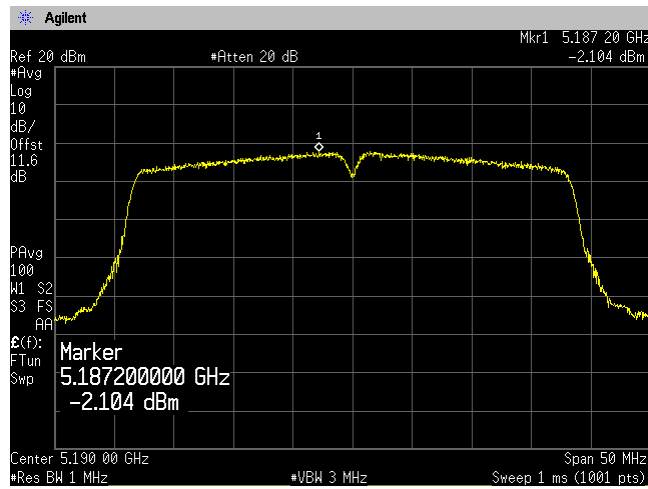


**(5.6 GHz Band)  
Channel: 144**

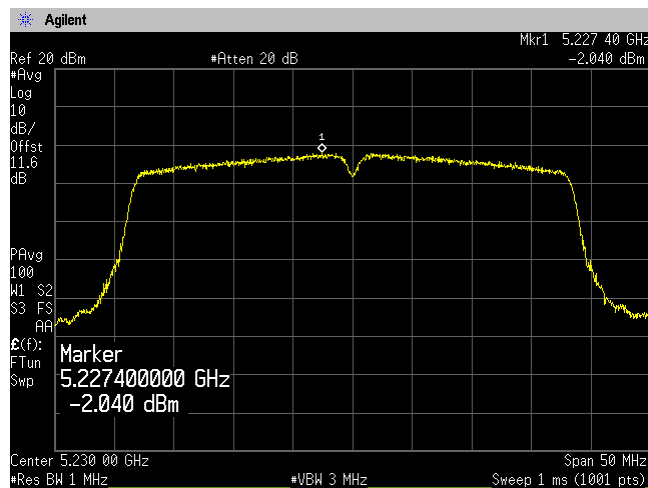




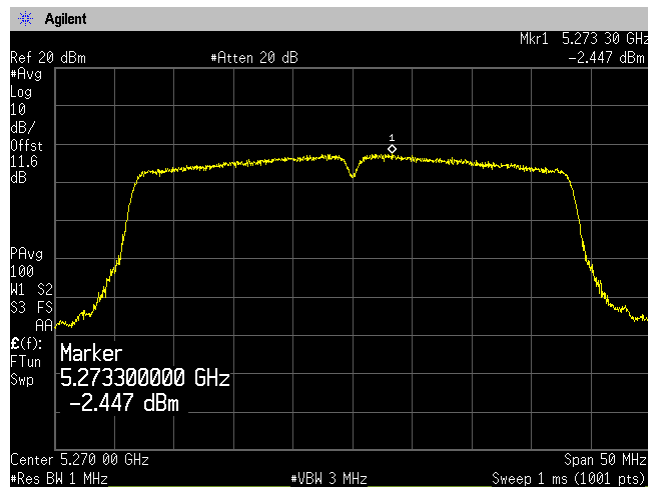
**[IEEE802.11n (HT40)]**  
**(5.2 GHz Band)**  
**Channel: 38**



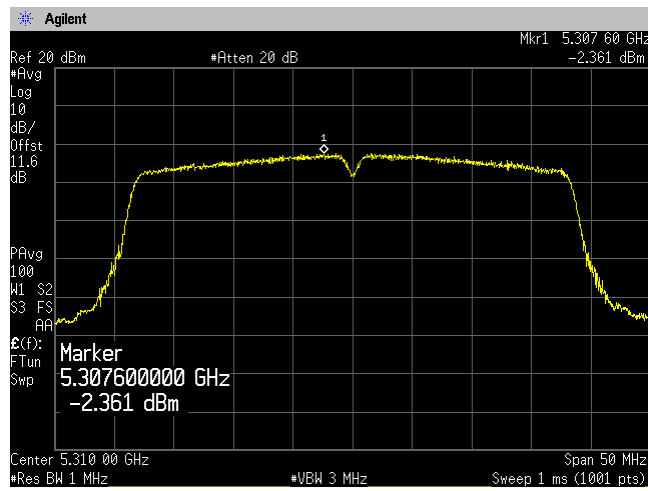
**(5.2 GHz Band)**  
**Channel: 46**



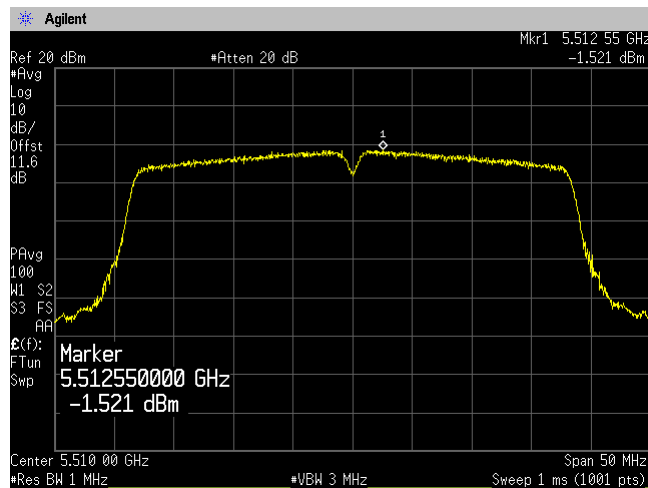
**(5.3 GHz Band)**  
**Channel: 54**



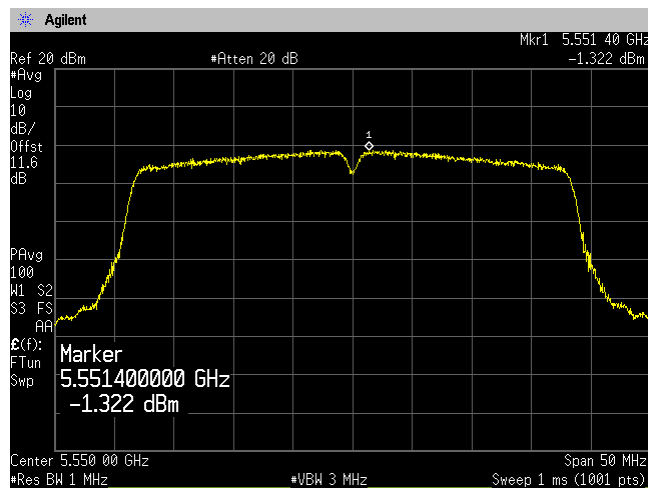
**(5.3 GHz Band)  
Channel: 62**



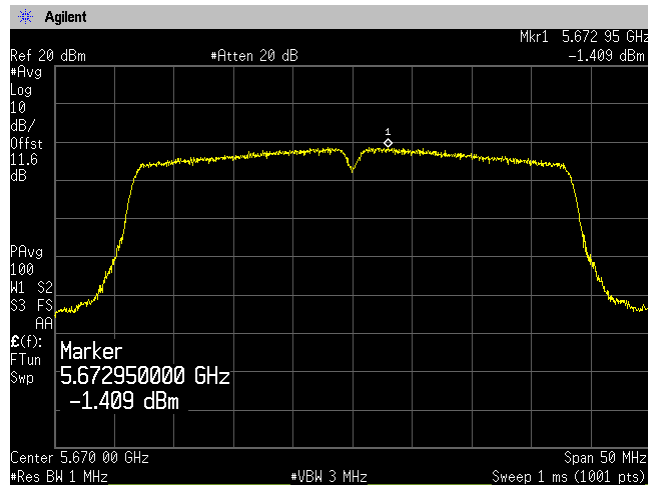
**(5.6 GHz Band)  
Channel: 102**



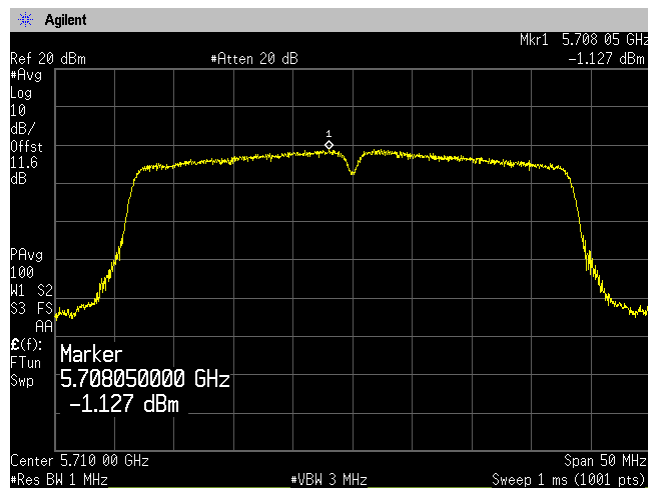
**Channel: 110**



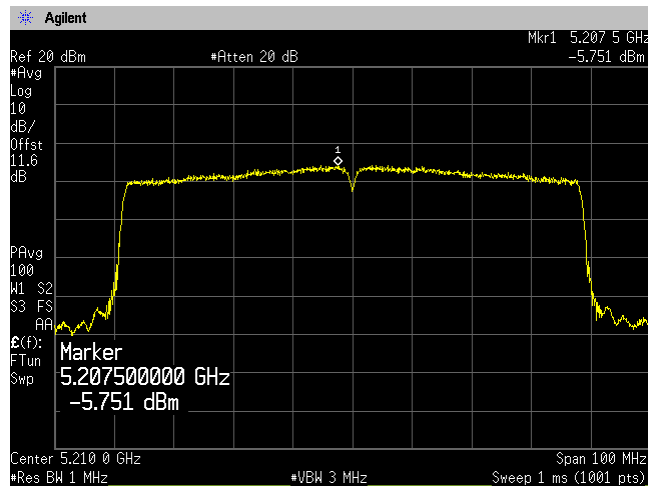
**(5.6 GHz Band)  
Channel: 134**



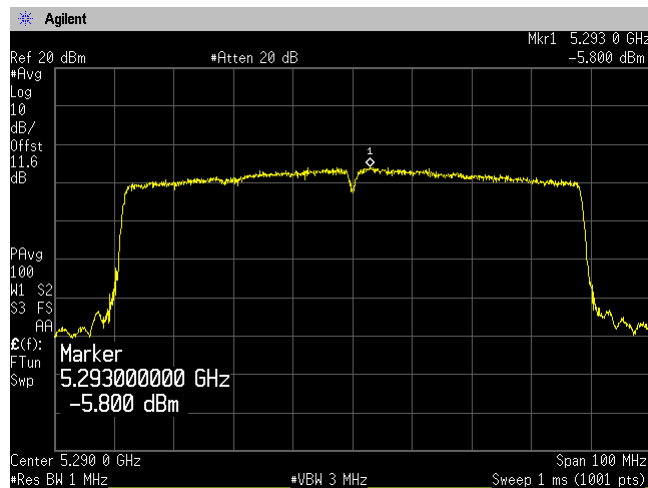
**(5.6 GHz Band)  
Channel: 142**



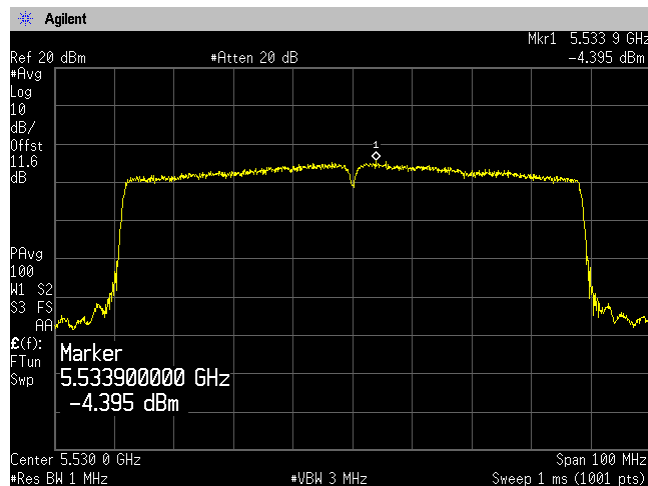
**[IEEE802.11ac (HT80)]**  
**(5.2 GHz Band)**  
**Channel: 42**



**(5.3GHz Band)**  
**Channel: 58**



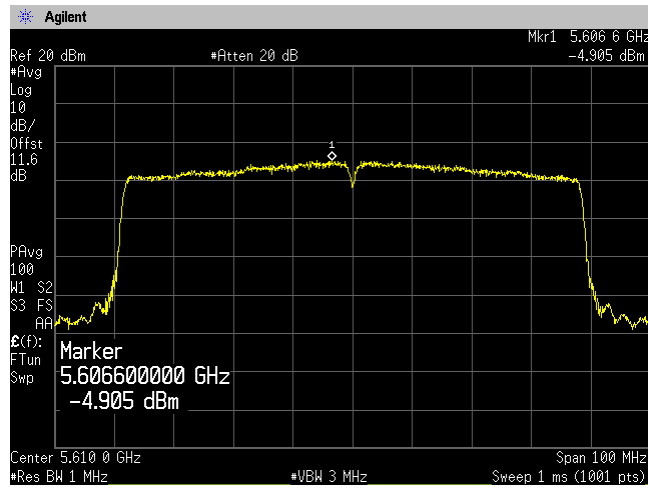
**(5.6GHz Band)**  
**Channel: 106**



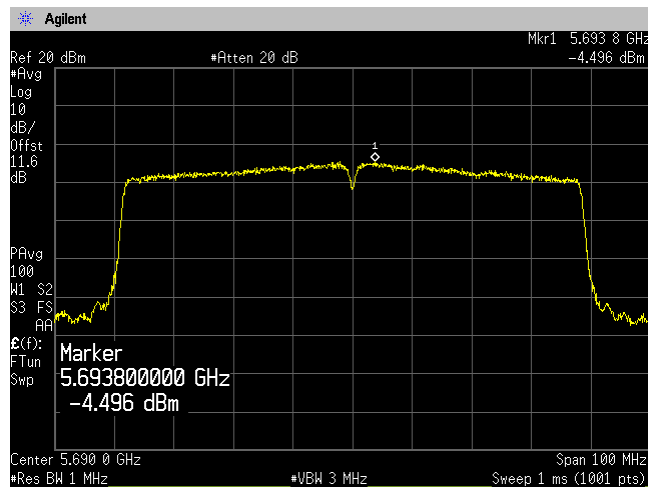


Japan

**(5.6GHz Band)  
Channel: 122**



**Channel: 138**



#### 4.4 Radiated Emissions (Restricted Bands of Operation)

##### 4.4.1 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) 0.8 ×(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.

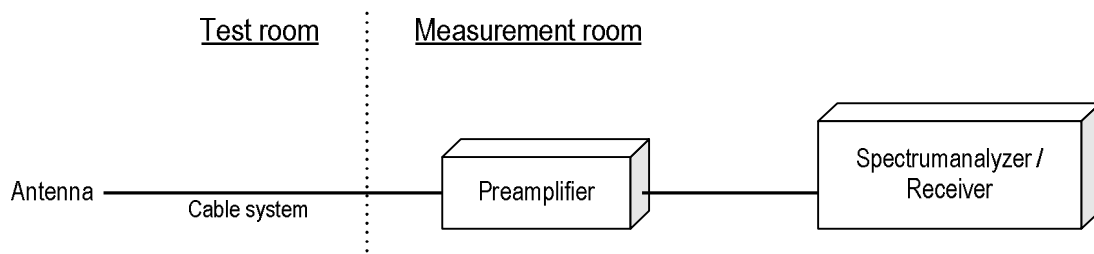
The EUT was set to operate with following conditions.

- 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	1.376	1.412	97.45	0.112
	W53	1.394	1.430	97.48	0.111
	W56	1.342	1.382	97.11	0.128
802.11n (20MHz)	W52	1.288	1.324	97.28	0.120
	W53	1.392	1.430	97.34	0.117
	W56	1.260	1.298	97.07	0.129
802.11n (40MHz)	W52	0.636	0.672	94.64	0.239
	W53	0.636	0.672	94.64	0.239
	W56	0.637	0.672	94.79	0.232
802.11ac (80MHz)	W52	0.325	0.360	90.28	0.444
	W53	0.315	0.352	89.49	0.482
	W56	0.324	0.359	90.25	0.445

Note:  $DCF = 10\log(1/x)$

#### 4.4.2 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



#### 4.4.3 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.



Japan

#### 4.4.4 Test data

Date : 7-December-2022  
Temperature : 22.8 [°C]  
Humidity : 24.1 [%]  
Test place : 3m Semi-anechoic chamber

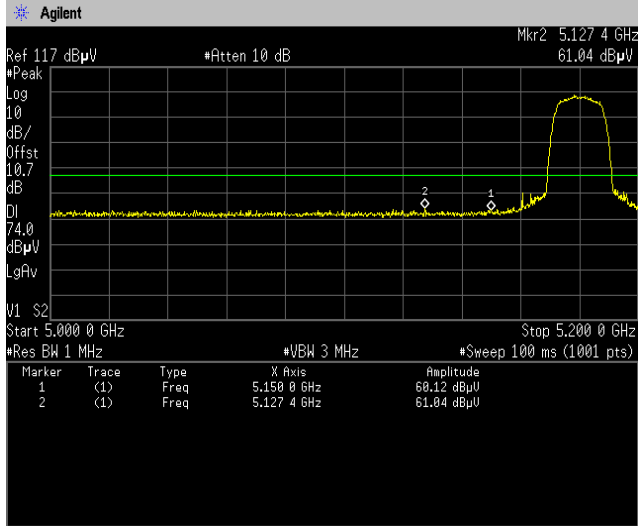
Test engineer : Tadahiro Seino



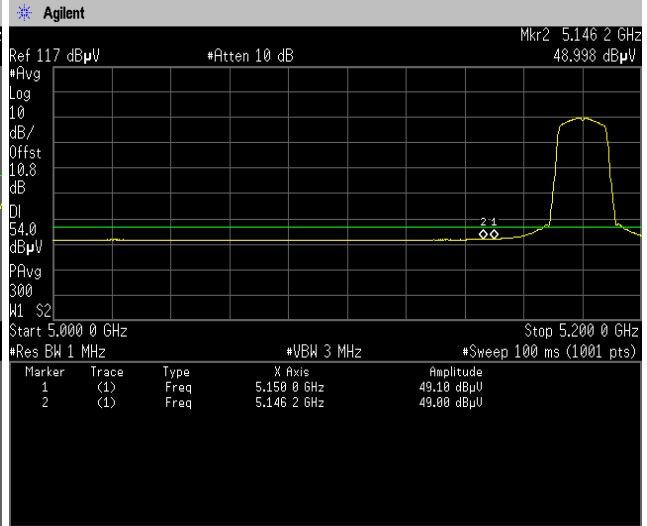
### 4.4.4.1 Restricted Bandedge

[IEEE802.11a]

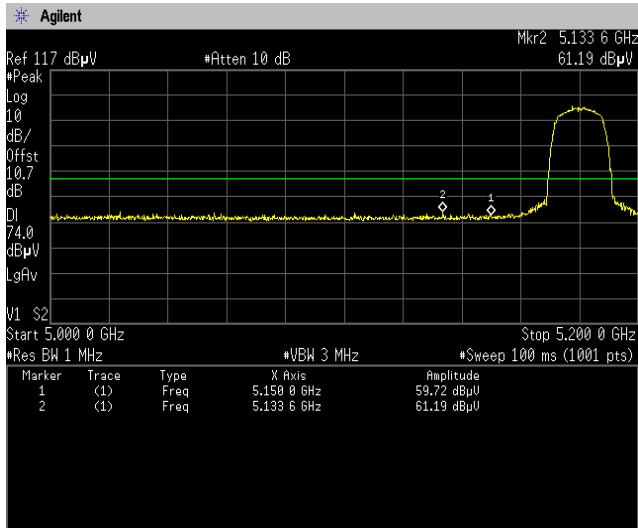
### 5.2 GHz Band, Channel Low Horizontal Peak



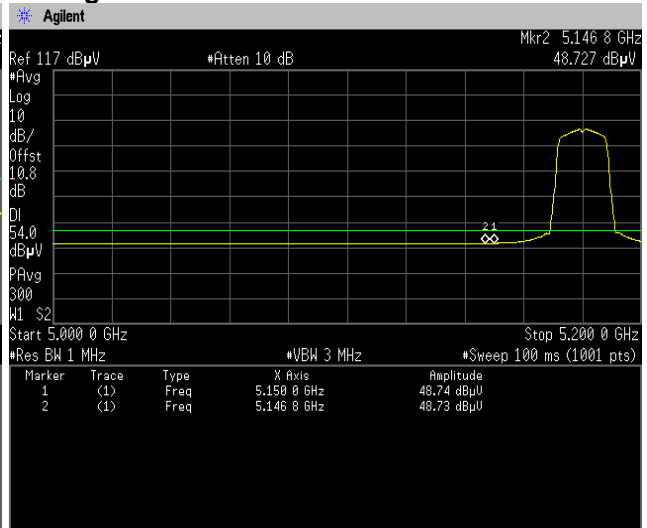
### Average



### Vertical Peak



### Average

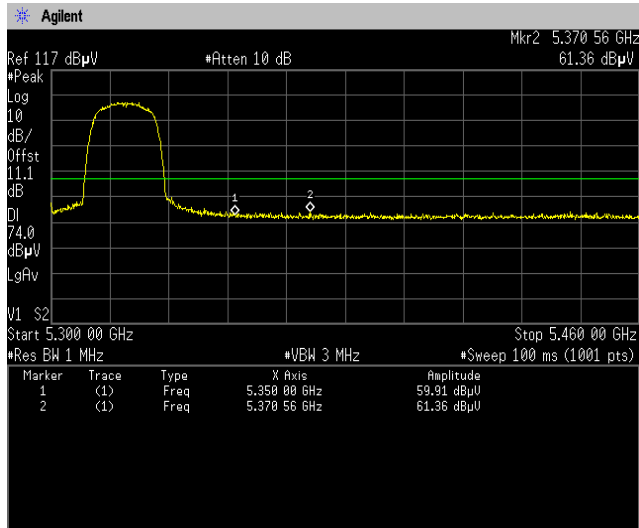




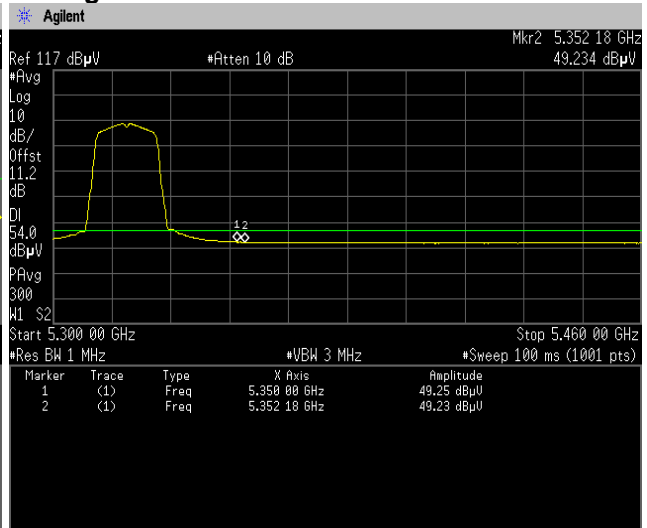
[IEEE802.11a]

5.3 GHz Band, Channel High  
Horizontal

Peak

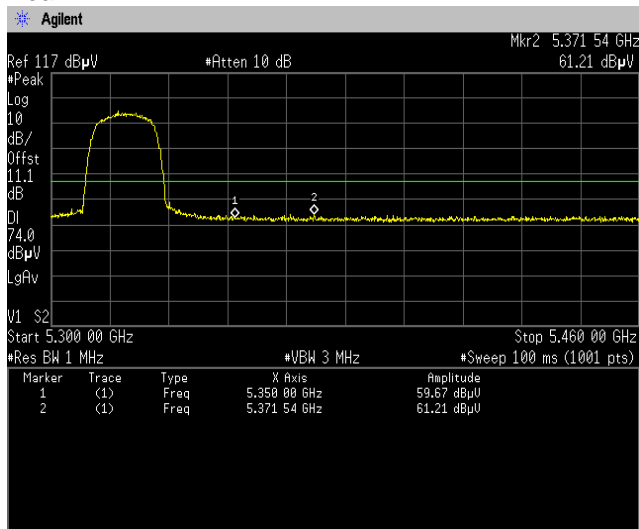


Average

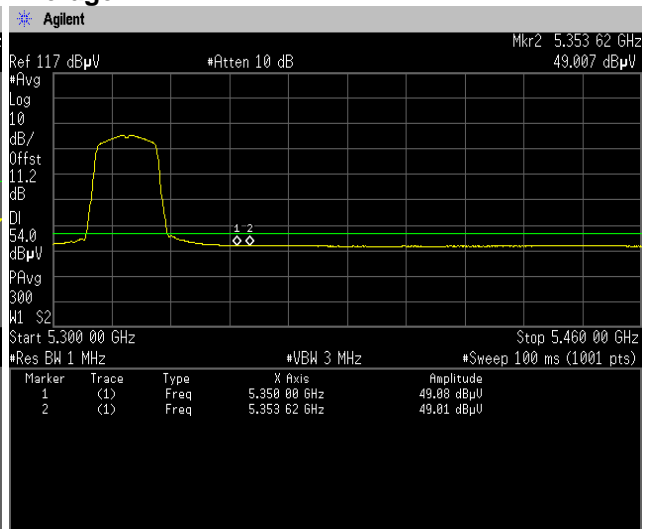


Vertical

Peak



Average

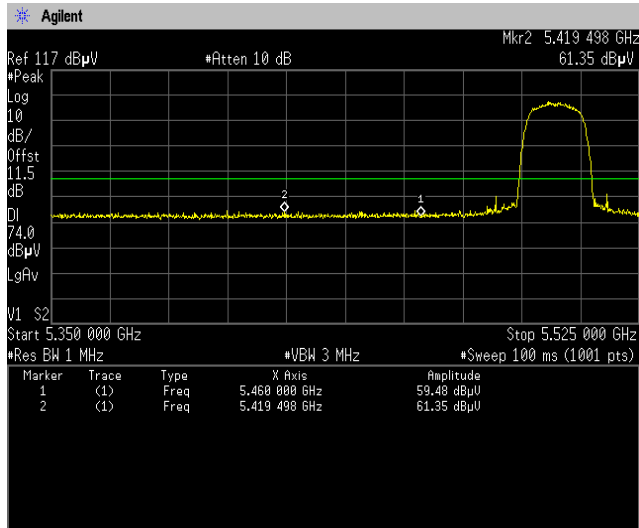




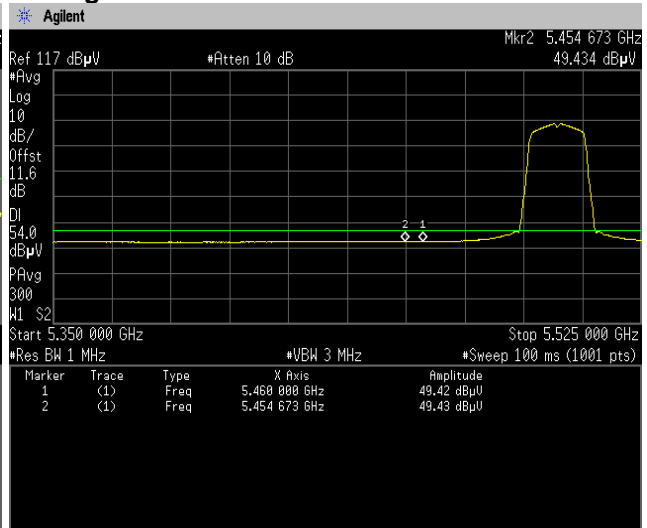
[IEEE802.11a]

5.6 GHz Band, Channel Low  
Horizontal

Peak

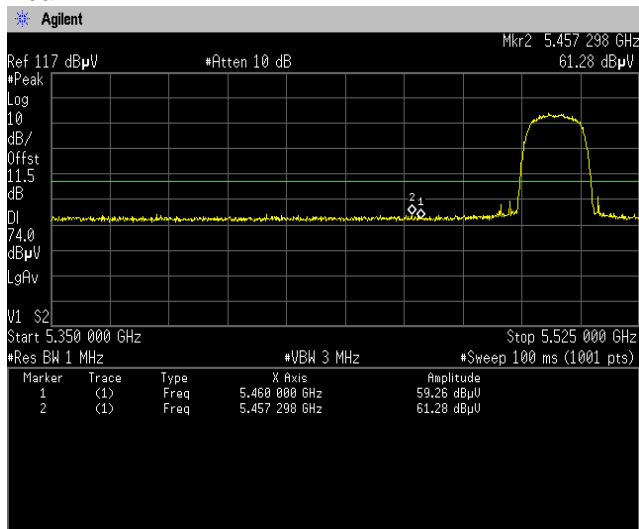


Average

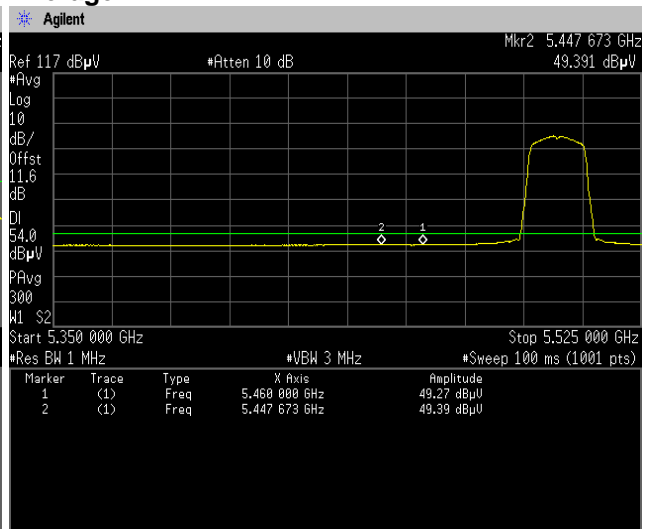


Vertical

Peak



Average

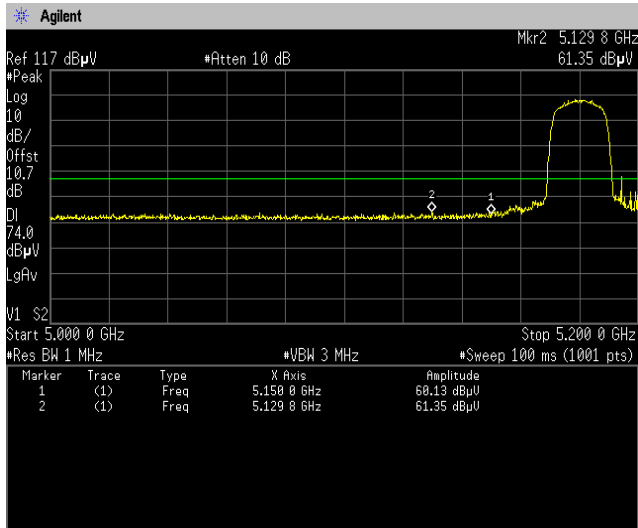




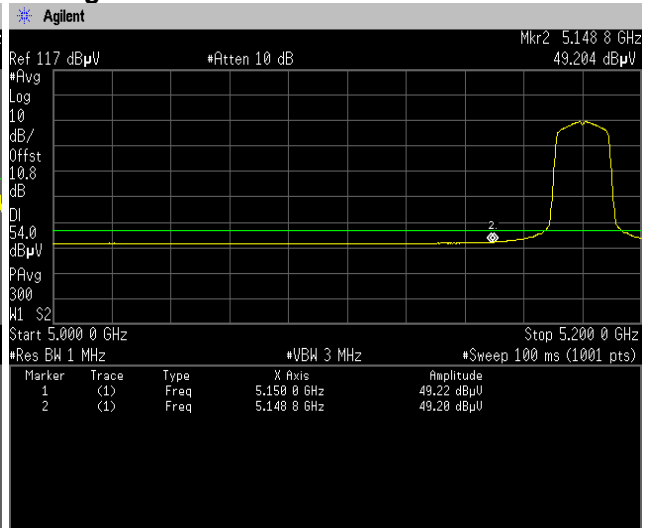
[IEEE802.11n (HT20)]

5.2 GHz Band, Channel Low  
Horizontal

Peak

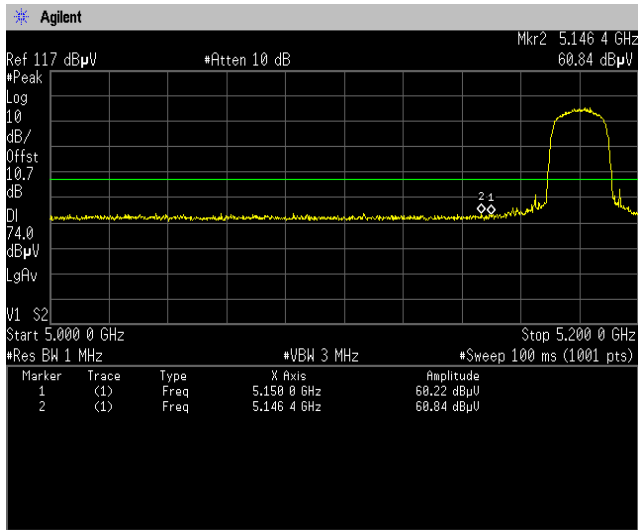


Average

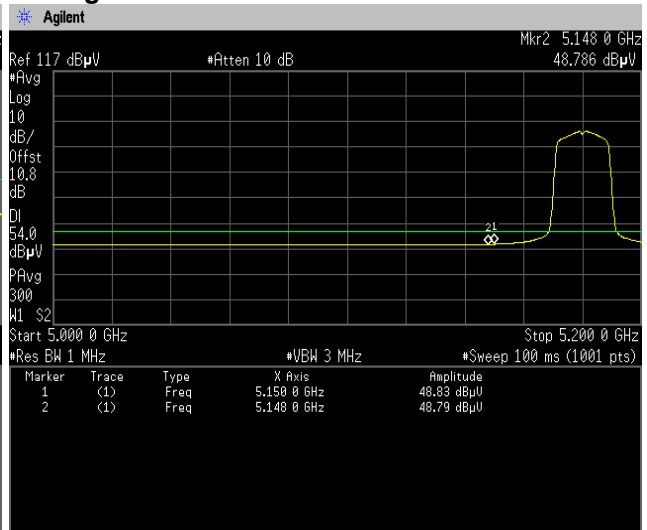


Vertical

Peak



Average

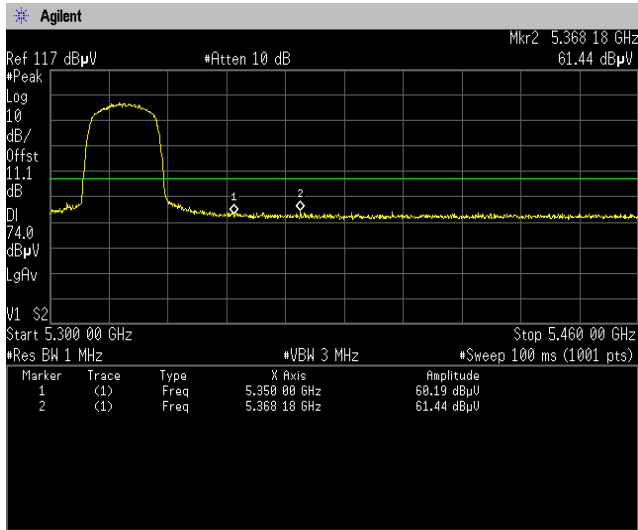




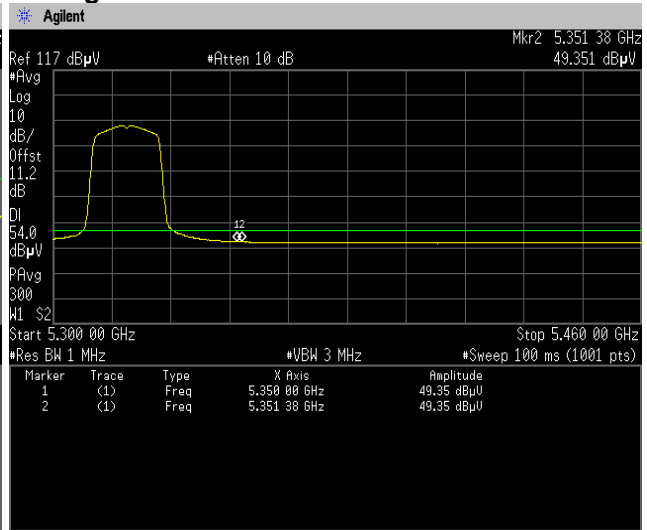
[IEEE802.11n (HT20)]

5.3 GHz Band, Channel High  
Horizontal

Peak

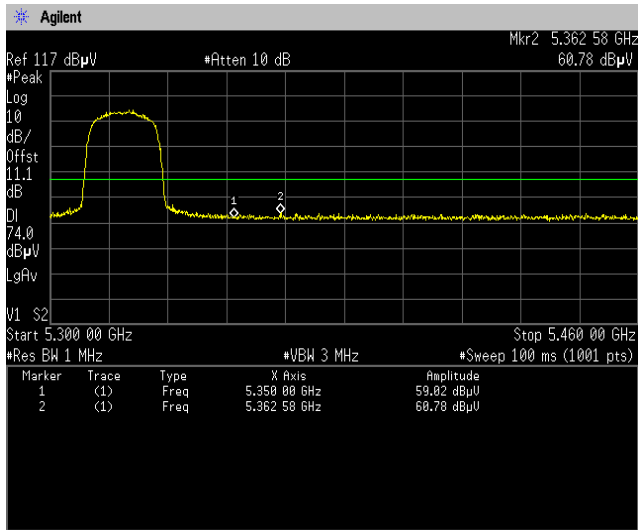


Average

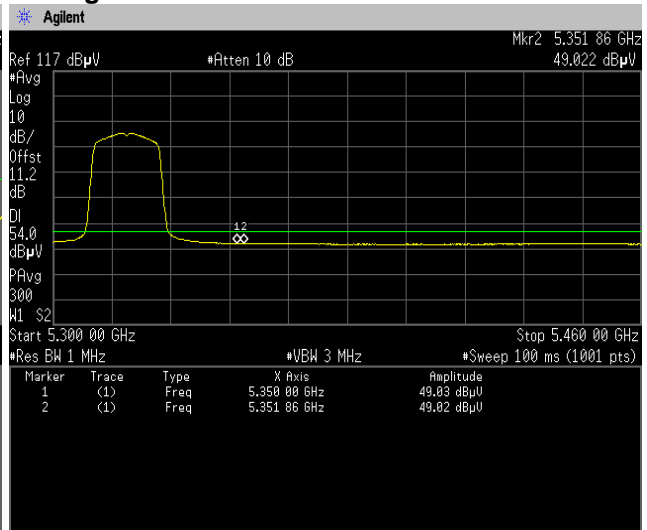


Vertical

Peak



Average

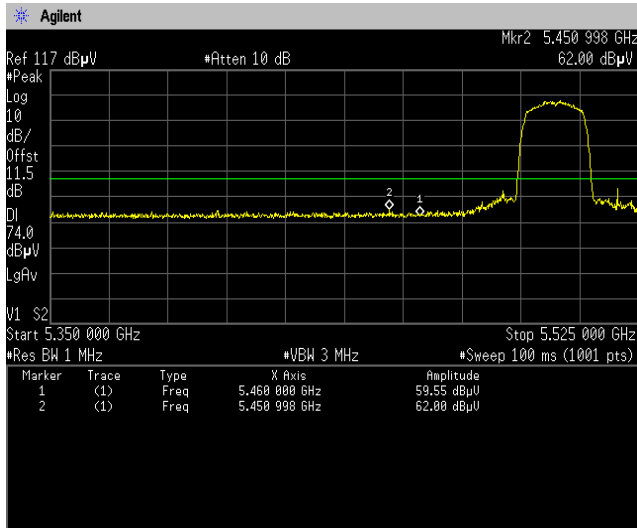




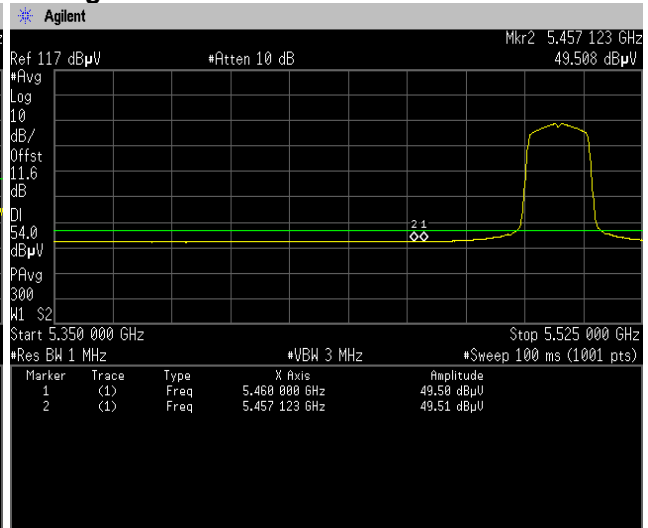
[IEEE802.11n (HT20)]

5.6 GHz Band, Channel Low  
Horizontal

Peak

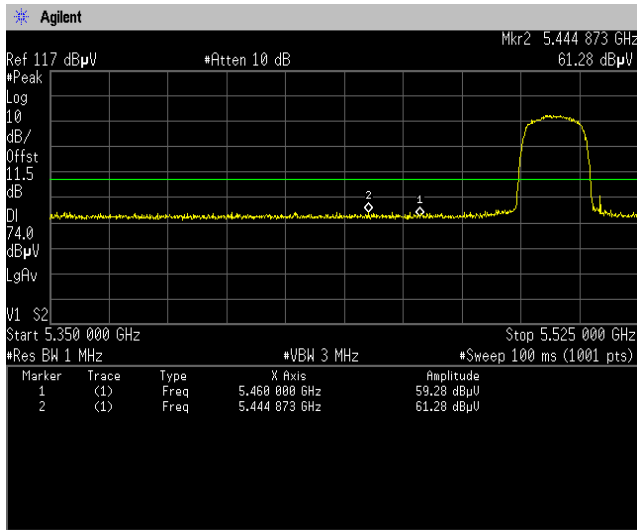


Average

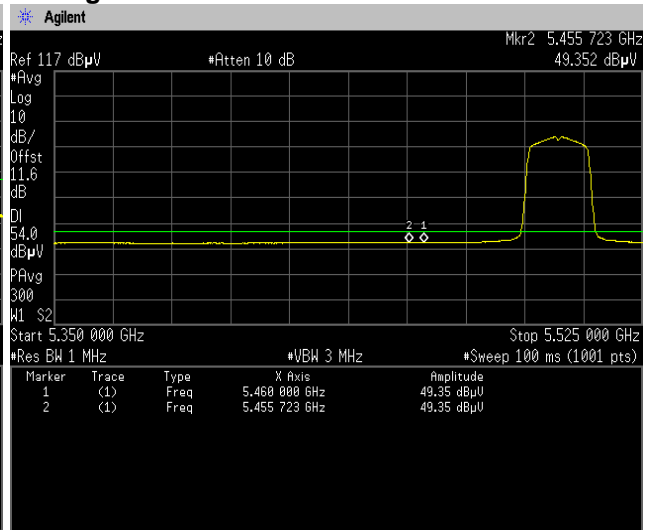


Vertical

Peak



Average



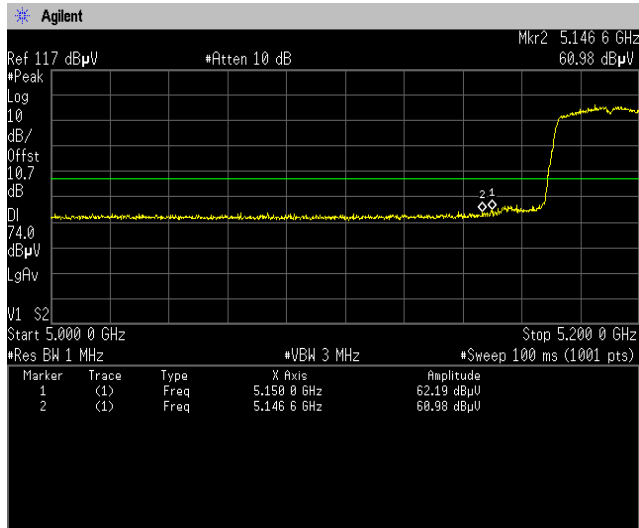




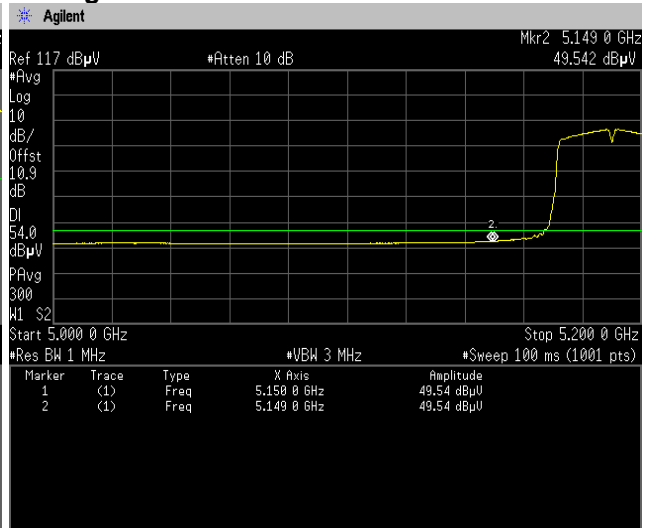
[IEEE802.11n (HT40)]

5.2 GHz Band, Channel Low  
Horizontal

Peak

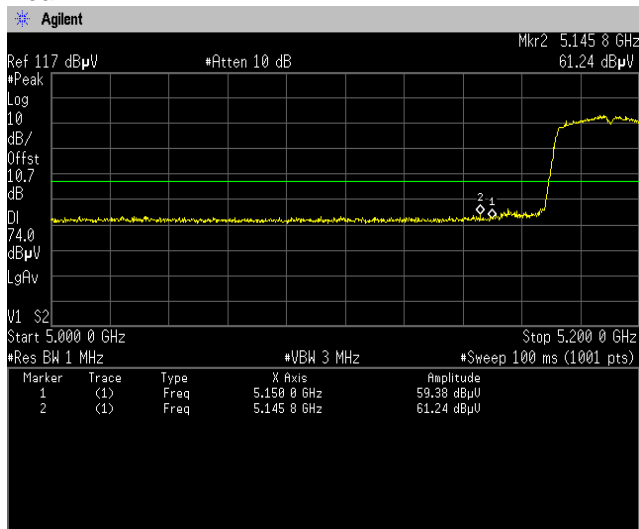


Average

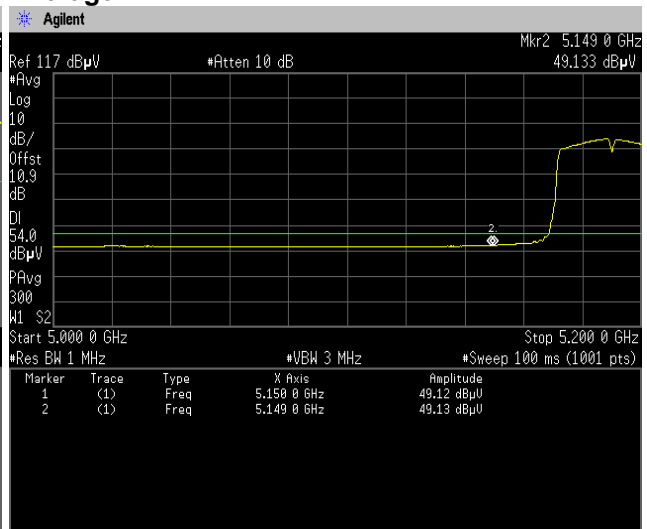


Vertical

Peak



Average

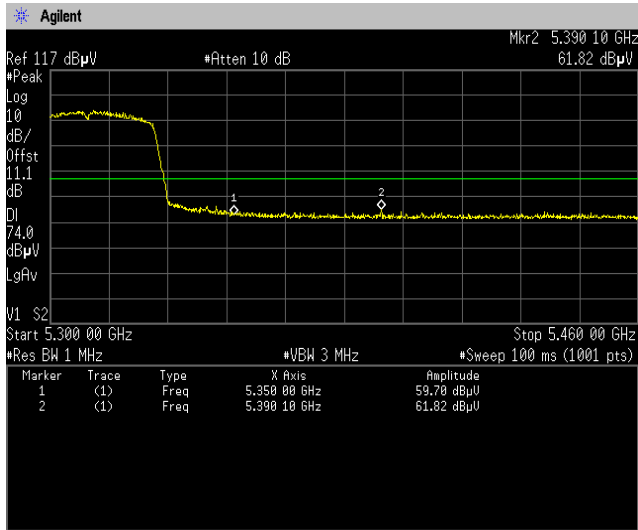




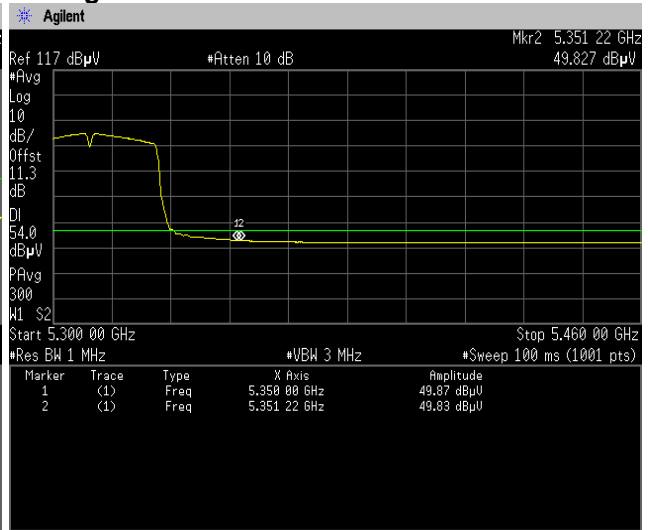
[IEEE802.11n (HT40)]

5.3 GHz Band, Channel High  
Horizontal

Peak

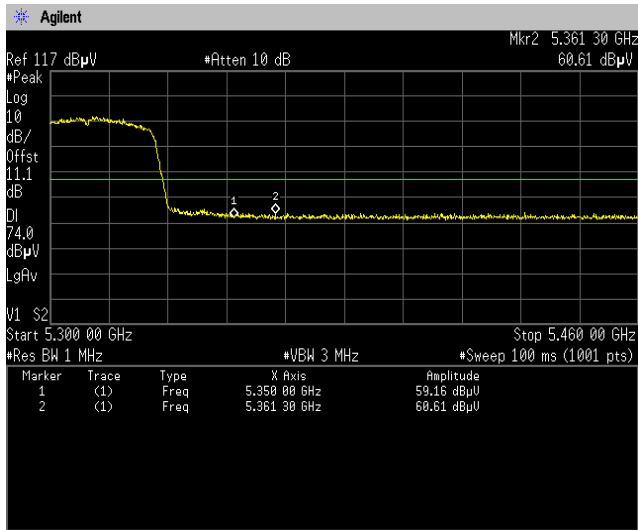


Average

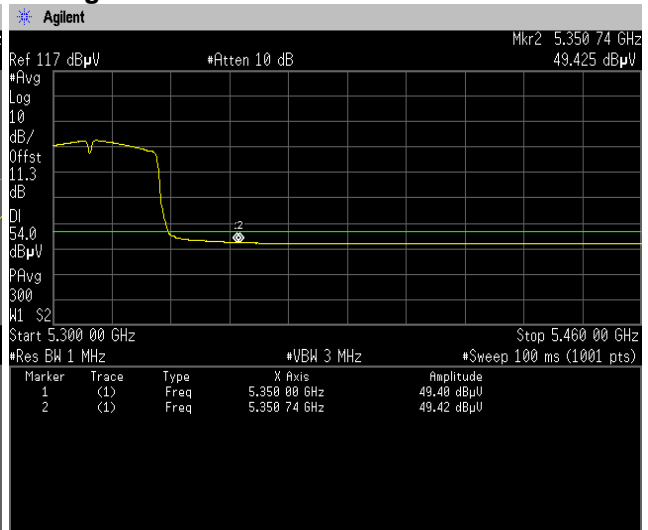


Vertical

Peak



Average

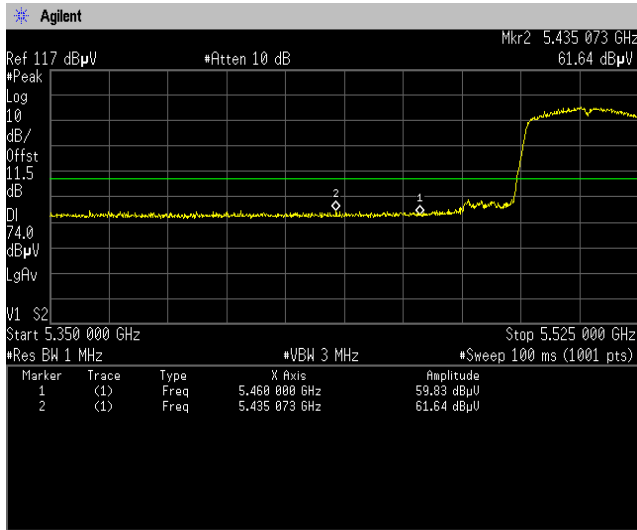




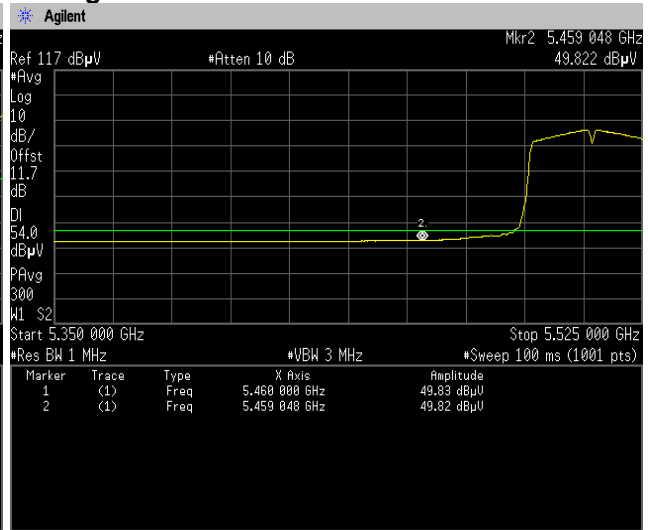
[IEEE802.11n (HT40)]

5.6 GHz Band, Channel Low  
Horizontal

Peak

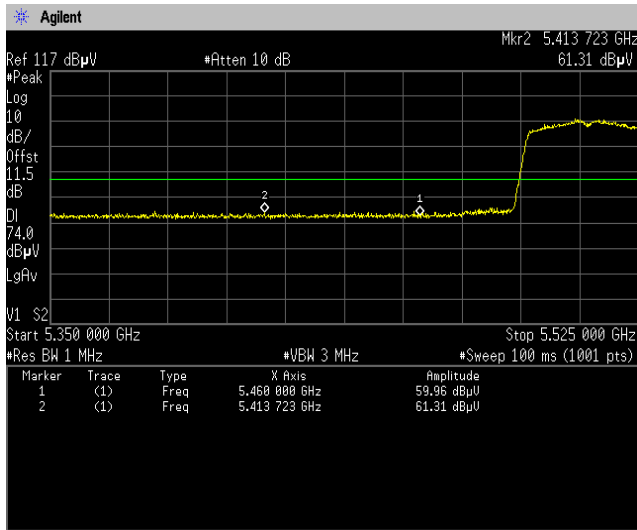


Average

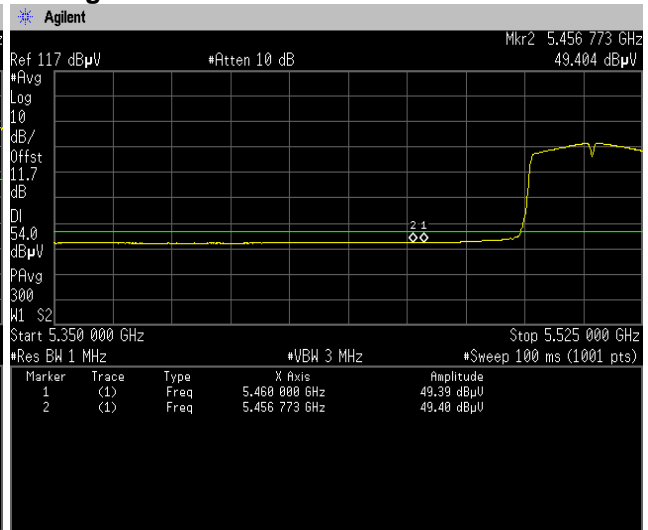


Vertical

Peak



Average

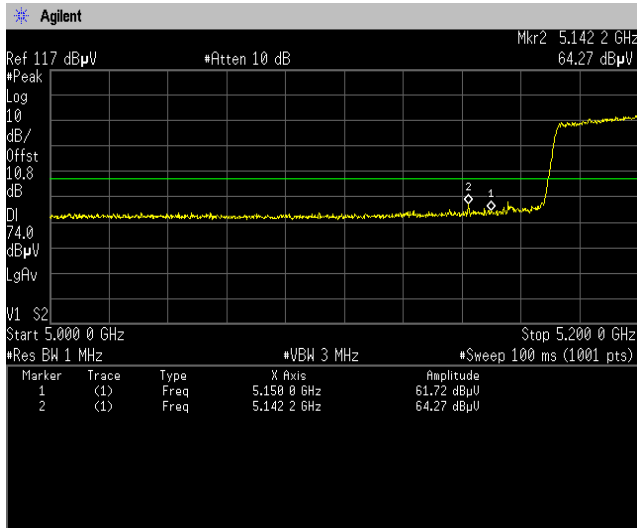




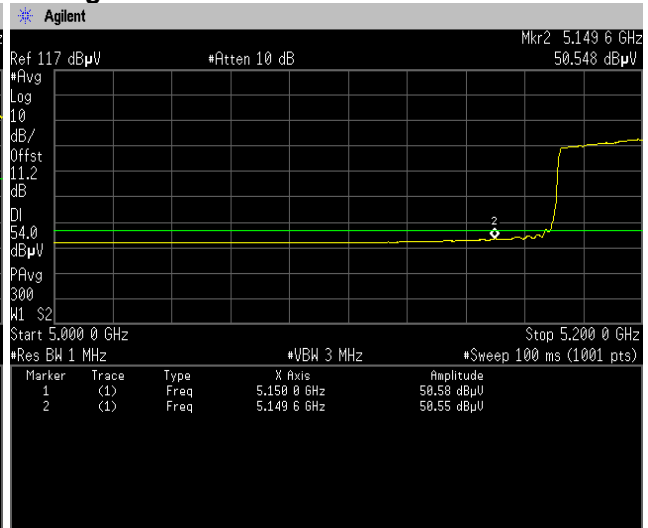
[IEEE802.11ac (VHT80)]

5.2 GHz Band, Channel Low  
Horizontal

Peak

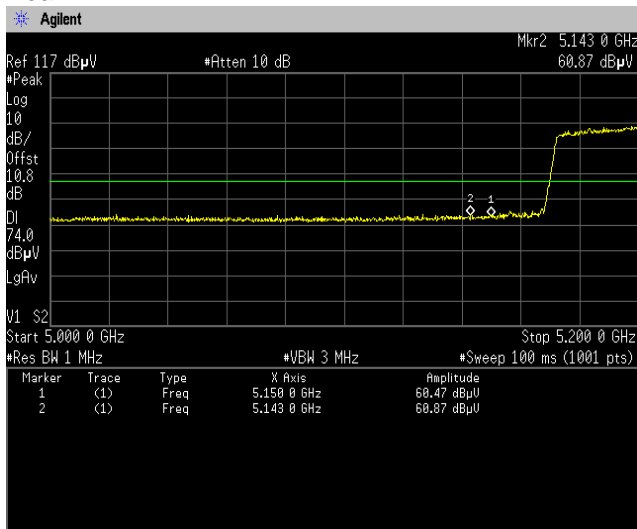


Average

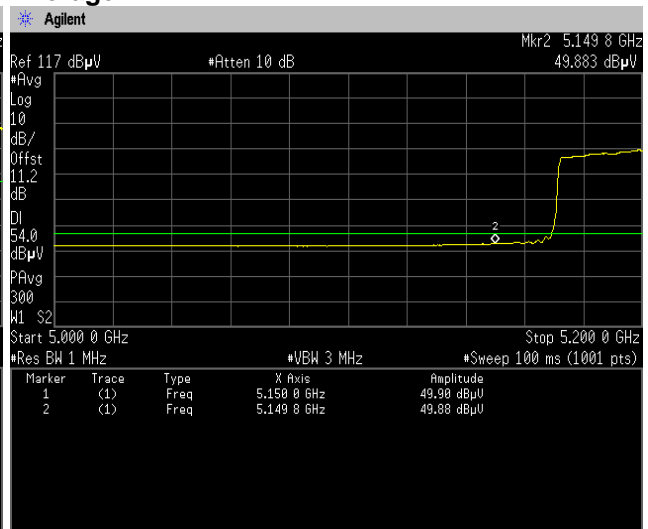


Vertical

Peak



Average

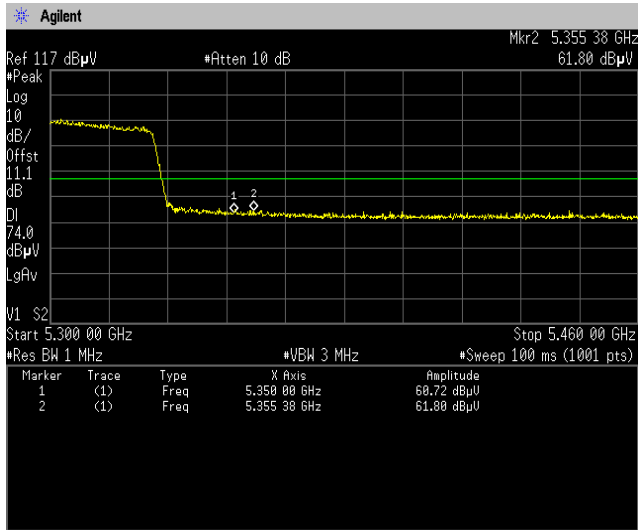




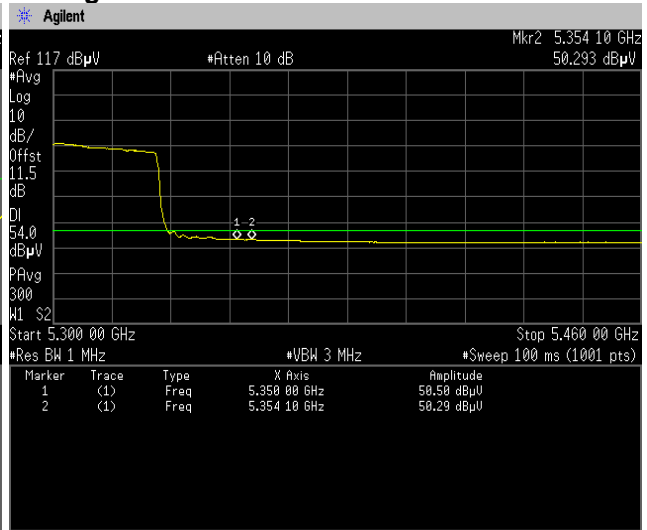
[IEEE802.11ac (VHT80)]

5.3 GHz Band, Channel High  
Horizontal

Peak

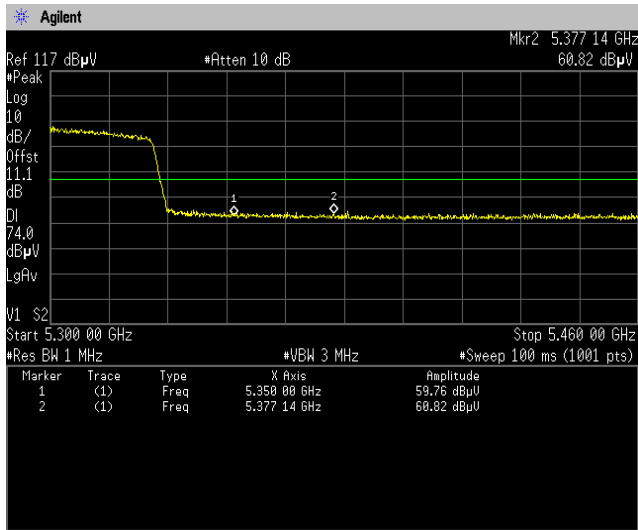


Average

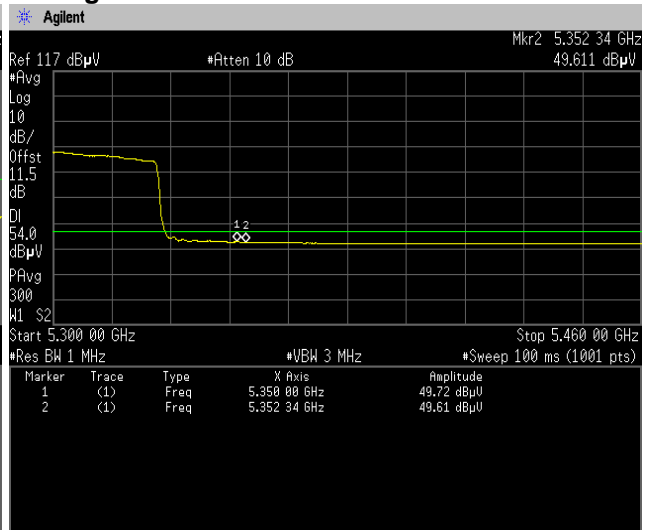


Vertical

Peak



Average

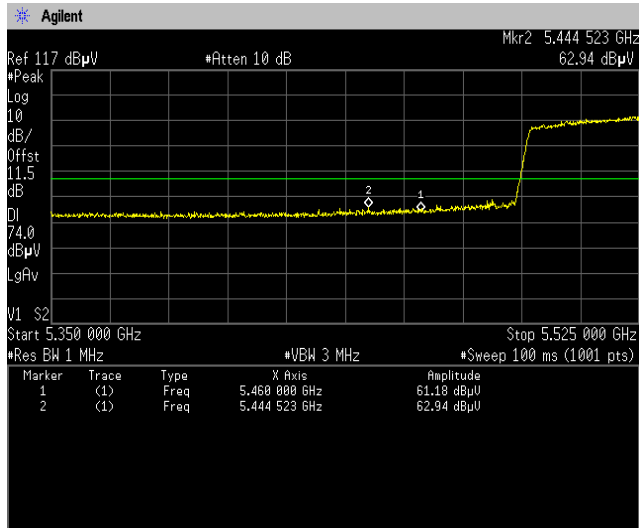




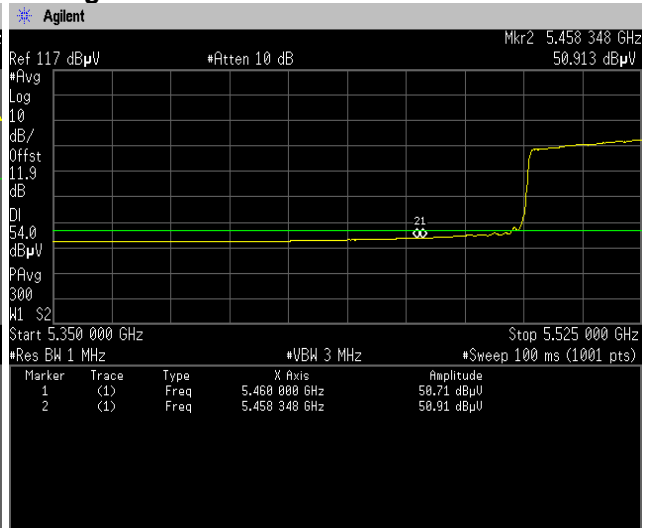
[IEEE802.11ac (VHT80)]

5.6 GHz Band, Channel Low  
Horizontal

Peak

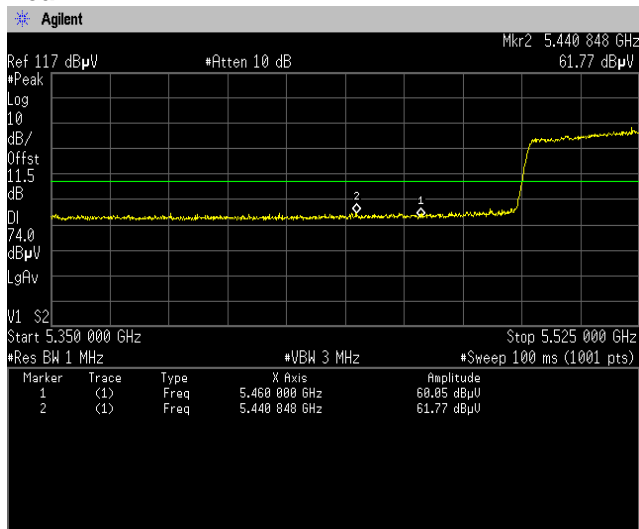


Average

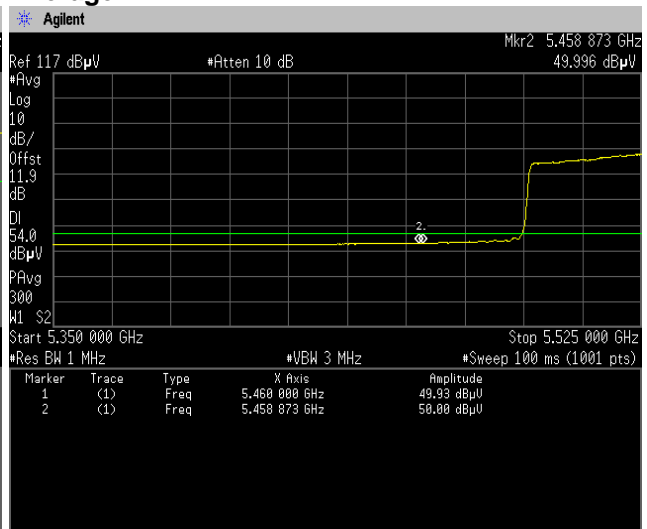


Vertical

Peak



Average





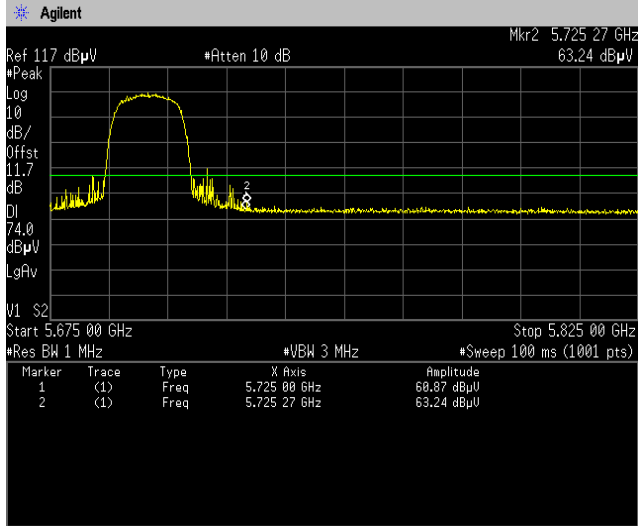
### 4.4.4.2 Non-Restricted Bandedge

[IEEE802.11a]

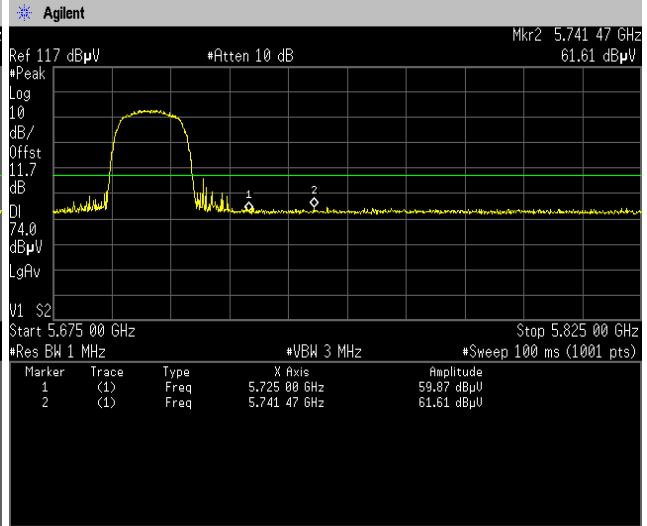
#### 5.6 GHz Band, Channel High (140)

Peak

Horizontal



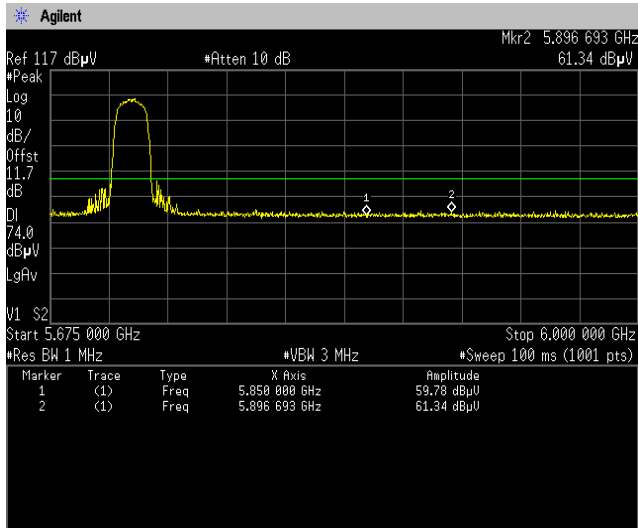
Vertical



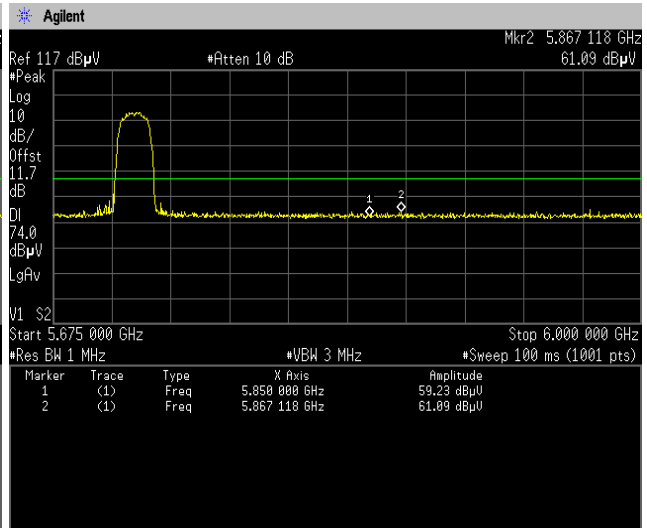
#### 5.6 GHz Band, Channel High (144)

Peak

Horizontal



Vertical

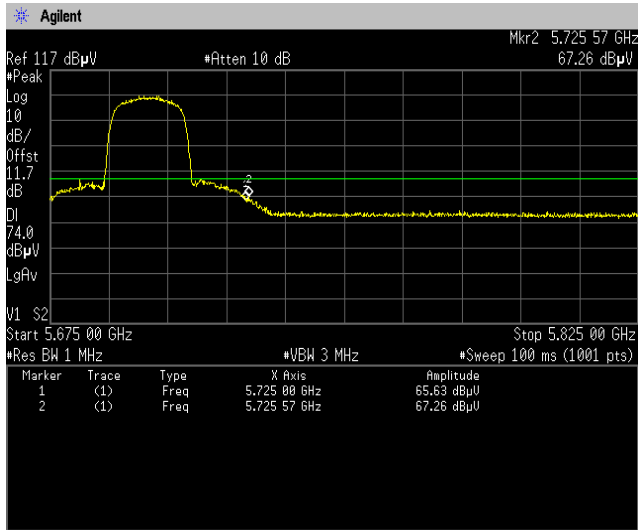




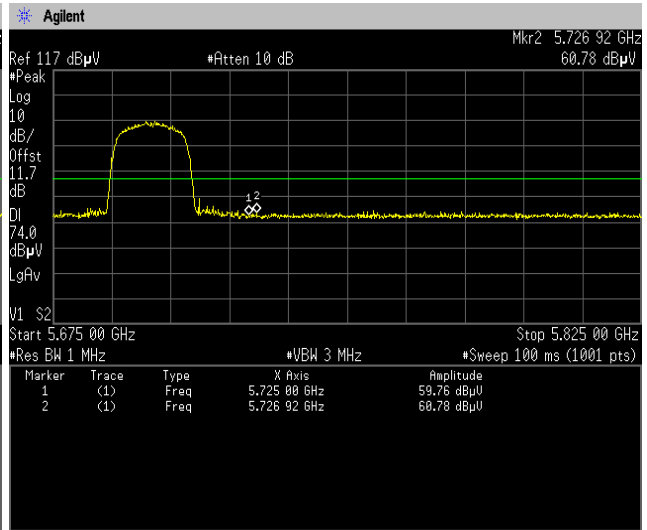
[IEEE802.11n (HT20)]

5.6 GHz Band, Channel High (140)  
Peak

Horizontal

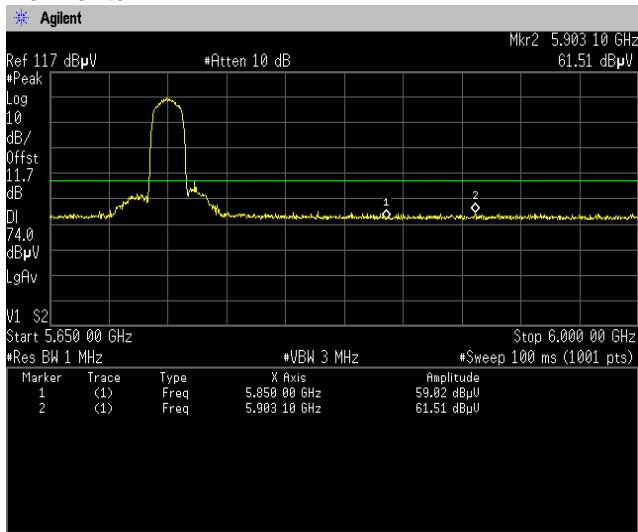


Vertical

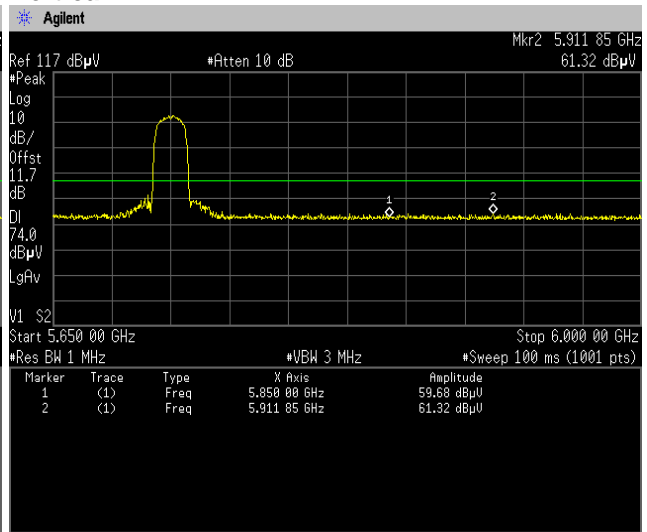


5.6 GHz Band, Channel High (144)  
Peak

Horizontal



Vertical





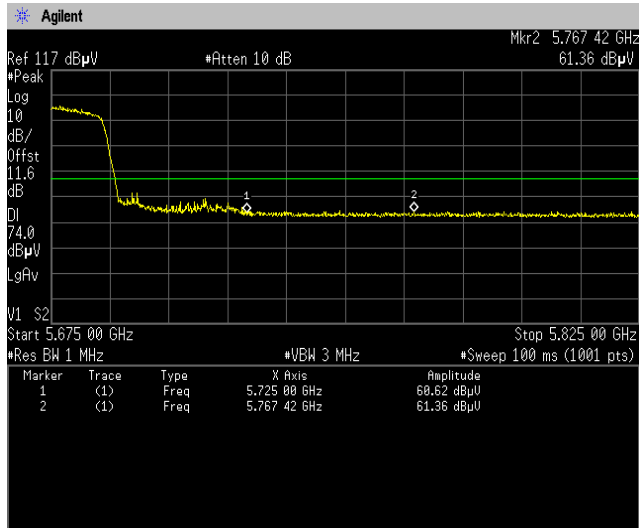


[IEEE802.11n (HT40)]

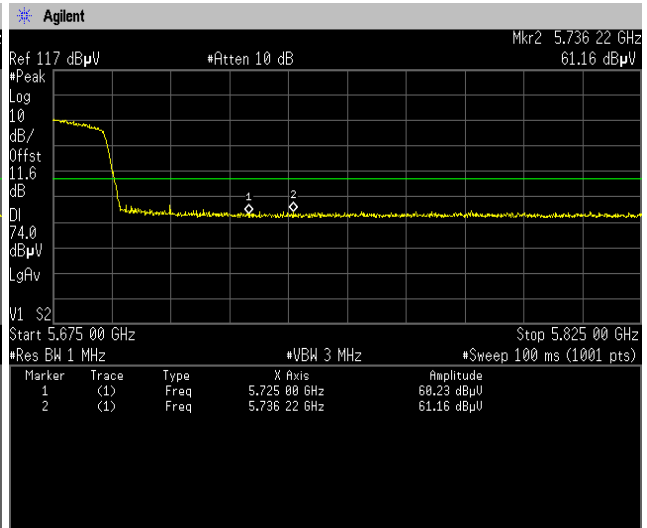
5.6GHz Band, Channel High (134)

Peak

Horizontal



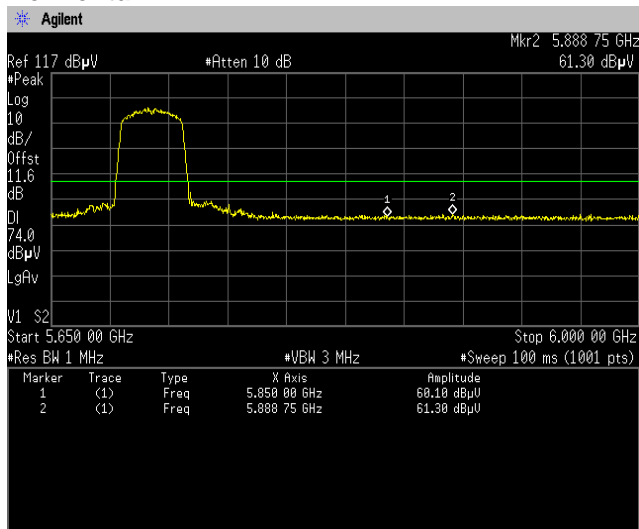
Vertical



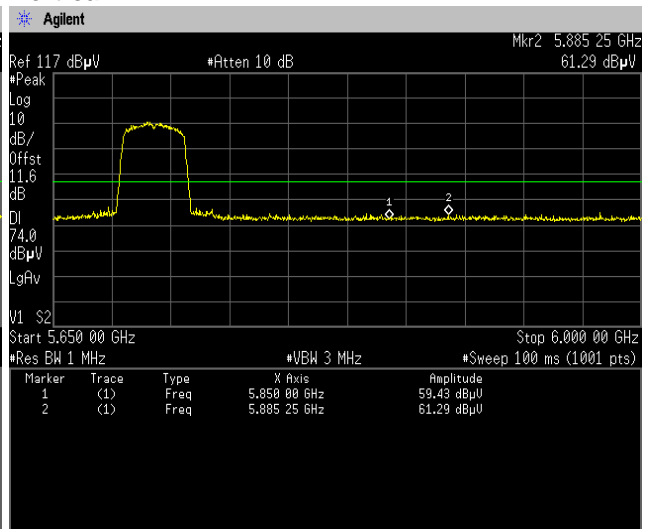
5.6GHz Band, Channel High (142)

Peak

Horizontal



Vertical



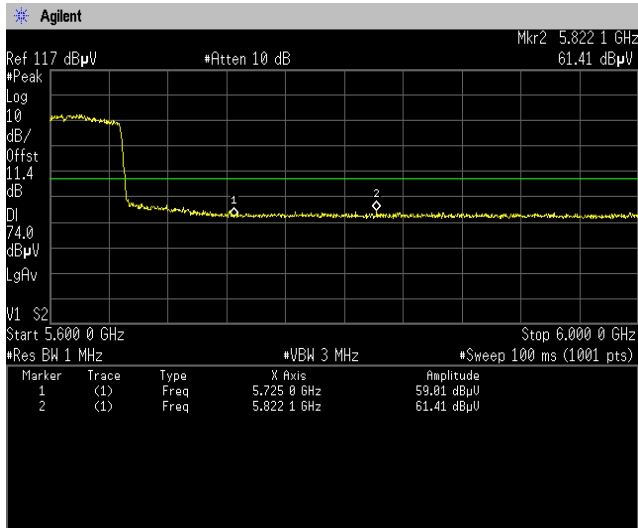


[IEEE802.11ac (VHT80)]

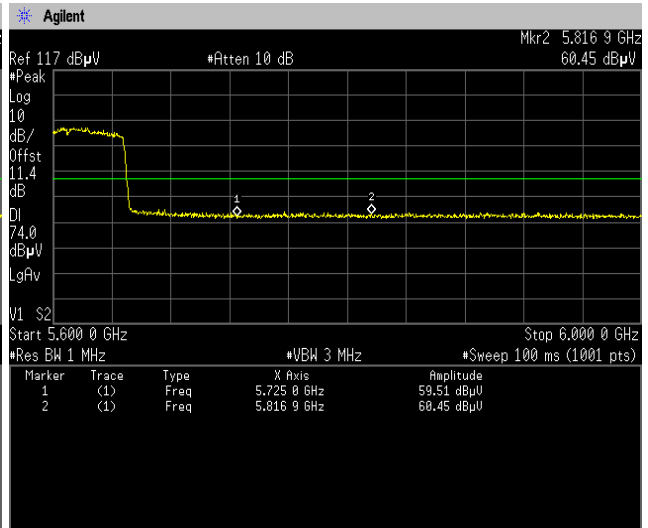
5.6 GHz Band, Channel High (122)

Peak

Horizontal



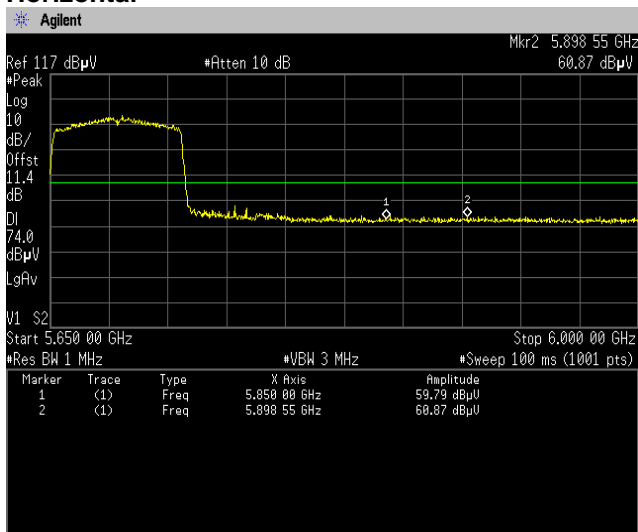
Vertical



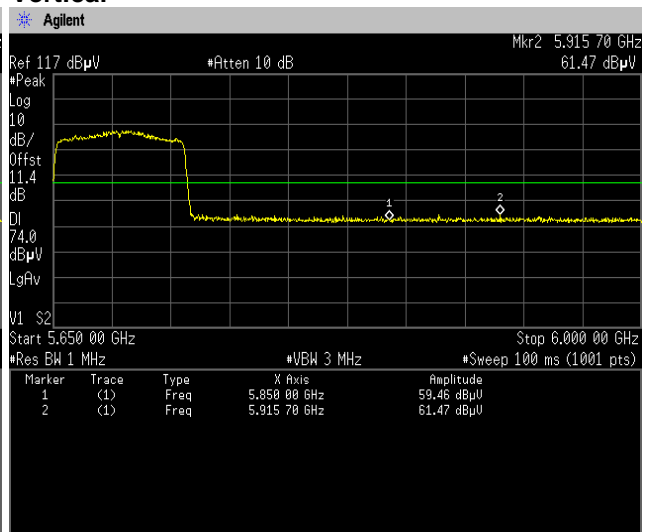
5.6 GHz Band, Channel High (138)

Peak

Horizontal



Vertical



#### 4.4.4.3 Radiated Emissions

Date	: 31-October-2022	Test engineer	:	<u>Tadahiro Seino</u>
Temperature	: 21.6 [°C]			
Humidity	: 31.6 [%]			
Test place	: 3m Semi-anechoic chamber			
Date	: 2-November-2022	Test engineer	:	<u>Tadahiro Seino</u>
Temperature	: 23.6 [°C]			
Humidity	: 36.6 [%]			
Test place	: 3m Semi-anechoic chamber			
Date	: 2-December-2022	Test engineer	:	<u>Kazunori Saito</u>
Temperature	: 23.0 [°C]			
Humidity	: 24.0 [%]			
Test place	: 3m Semi-anechoic chamber			
Date	: 3-December-2022	Test engineer	:	<u>Taiki Watanabe</u>
Temperature	: 21.8 [°C]			
Humidity	: 26.8 [%]			
Test place	: 3m Semi-anechoic chamber			
Date	: 5-December-2022	Test engineer	:	<u>Tadahiro Seino</u>
Temperature	: 21.1 [°C]			
Humidity	: 23.0 [%]			
Test place	: 3m Semi-anechoic chamber			
Date	: 6-December-2022	Test engineer	:	<u>Taiki Watanabe</u>
Temperature	: 22.6 [°C]			
Humidity	: 30.5 [%]			
Test place	: 3m Semi-anechoic chamber			
Date	: 8-December-2022	Test engineer	:	<u>Tadahiro Seino</u>
Temperature	: 22.0 [°C]			
Humidity	: 24.7 [%]			
Test place	: 3m Semi-anechoic chamber			
Date	: 10-December-2022	Test engineer	:	<u>Tadahiro Seino</u>
Temperature	: 22.2 [°C]			
Humidity	: 24.4 [%]			
Test place	: 3m Semi-anechoic chamber			

**[IEEE802.11a]  
(5.2 GHz Band)**

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a	36	5180	10360.00	H	PK	45.7	11.1		56.8	68.2	11.4
	40	5200	10400.00	H	PK	45.5	11.1		56.6	68.2	11.6
	48	5240	10480.00	H	PK	45.3	11.2		56.5	68.2	11.7

**(5.3 GHz Band)**

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a	52	5260	10520.00	H	PK	45.6	11.2		56.8	68.2	11.4
	56	5280	10560.00	H	PK	45.9	11.2		57.1	68.2	11.1
	64	5320	10640.00	H	PK	45.5	11.3		56.8	74.0	17.2
			10640.00	H	AV	35.8	11.3	0.111	47.2	54.0	6.8

**(5.6 GHz Band)**

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11a	100	5500	5465.46	H	PK	49.2	11.4		60.6	68.2	7.6
			5463.68	V	PK	48.6	11.4		60.0	68.2	8.2
			11000.00	H	PK	45.3	11.8		57.1	74.0	16.9
			11000.00	H	AV	34.8	11.8	0.128	46.7	54.0	7.3
	116	5580	11160.00	H	PK	45.1	11.9		57.0	74.0	17.0
			11160.00	H	AV	35.4	11.9	0.128	47.4	54.0	6.6
	140	5700	11400.00	H	PK	44.4	12.2		56.6	74.0	17.4
			11400.00	H	AV	35.0	12.2	0.128	47.3	54.0	6.7
	144	5720	11440.00	H	PK	45.6	12.2		57.8	74.0	16.2
			11440.00	H	AV	34.8	12.2	0.128	47.1	54.0	6.9

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

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11n (20MHz)	36	5180	10360.00	H	PK	46.3	11.1		57.4	68.2	10.8
	40	5200	10400.00	H	PK	45.0	11.1		56.1	68.2	12.1
	48	5240	10480.00	H	PK	45.4	11.2		56.6	68.2	11.6

**Note:**

1. Emission Level (Margin) = Limit - [Reading + C.F (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 30 MHz to 1000 MHz at the 3 meters distance.
3. No emission was detected in the receive mode.

**[IEEE802.11n (HT20)]**  
**(5.3 GHz Band)**

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11n (20MHz)	52	5260	10520.00	H	PK	45.7	11.2		56.9	68.2	11.3
	56	5280	10560.00	H	PK	45.7	11.2		56.9	68.2	11.3
	64	5320	10640.00	H	PK	45.2	11.3		56.5	74.0	17.5
			10640.00	H	AV	35.3	11.3	0.117	46.7	54.0	7.3

**(5.6 GHz Band)**

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11n (20MHz)	100	5500	5468.81	H	PK	48.2	11.4		59.6	68.2	8.6
			5469.23	V	PK	48.3	11.4		59.7	68.2	8.5
			11000.00	H	PK	44.3	11.8		56.1	74.0	17.9
			11000.00	H	AV	34.9	11.8	0.129	46.8	54.0	7.2
	116	5580	11160.00	H	PK	45.8	11.9		57.7	74.0	16.3
			11160.00	H	AV	35.3	11.9	0.129	47.3	54.0	6.7
	140	5700	11400.00	H	PK	44.5	12.2		56.7	74.0	17.3
			11400.00	H	AV	34.7	12.2	0.129	47.0	54.0	7.0
	144	5720	11440.00	H	PK	44.7	12.2		56.9	74.0	17.1
			11440.00	H	AV	36.4	12.2	0.129	48.7	54.0	5.3

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

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11n (40MHz)	38	5190	10380.00	H	PK	44.6	11.1		55.7	68.2	12.5
	46	5230	10460.00	H	PK	43.5	11.2		54.7	68.2	13.5

**(5.3 GHz Band)**

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11n (40MHz)	54	5270	10540.00	H	PK	42.1	11.2		53.3	68.2	14.9
	62	5310	10620.00	H	PK	45.2	11.3		56.5	74.0	17.5
			10620.00	H	AV	33.9	11.3	0.239	45.4	54.0	8.6

Note:

1. Emission Level (Margin) = Limit - [Reading + C.F (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 30 MHz to 1000 MHz at the 3 meters distance.
3. No emission was detected in the receive mode.

**[IEEE802.11n (HT40)]**  
**(5.6 GHz Band)**

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11n (40MHz)	102	5510	5464.40	H	PK	52.0	11.4		63.4	68.2	4.8
			5467.70	V	PK	49.9	11.4		61.3	68.2	6.9
			11020.00	H	PK	49.5	11.8		61.3	74.0	12.7
			11020.00	H	AV	34.3	11.8	0.232	46.3	54.0	7.7
	110	5550	11100.00	H	PK	44.7	11.9		56.6	74.0	17.4
			11100.00	H	AV	33.1	11.9	0.232	45.2	54.0	8.8
	134	5670	11340.00	H	PK	44.5	12.1		56.6	74.0	17.4
			11340.00	H	AV	30.2	12.1	0.232	42.5	54.0	11.5
	142	5710	11420.00	H	PK	44.6	12.2		56.8	74.0	17.2
			11420.00	H	AV	29.5	12.2	0.232	41.9	54.0	12.1

**[IEEE802.11ac (VHT80)]**  
**(5.2 GHz Band)**

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac (80MHz)	42	5210	10420.00	H	PK	43.8	11.1		54.9	68.2	13.3

**(5.3 GHz Band)**

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac (80MHz)	58	5290	10580.00	H	PK	43.9	11.2		55.1	68.2	13.1

**(5.6 GHz Band)**

Mode	Channel	Frequency (MHz)	Frequency (MHz)	ANT H/V	Detector PK/AV	Reading (dBμV)	C.F (dB)	DCF (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
802.11ac (80MHz)	106	5530	5467.20	H	PK	52.7	11.4		64.1	68.2	4.1
			5467.20	V	PK	50.7	11.4		62.1	68.2	6.1
			11060.00	H	PK	44.1	11.8		55.9	74.0	18.1
			11060.00	H	AV	29.6	11.8	0.445	41.8	54.0	12.2
	122	5610	11220.00	H	PK	45.1	11.9		57.0	74.0	17.0
			11220.00	H	AV	30.2	11.9	0.445	42.5	54.0	11.5
	138	5690	11380.00	H	PK	44.7	12.2		56.9	74.0	17.1
			11380.00	H	AV	29.5	12.2	0.445	42.1	54.0	11.9

Note:

1. Emission Level (Margin) = Limit - [Reading + C.F (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 30 MHz to 1000 MHz at the 3 meters distance.
3. No emission was detected in the receive mode.

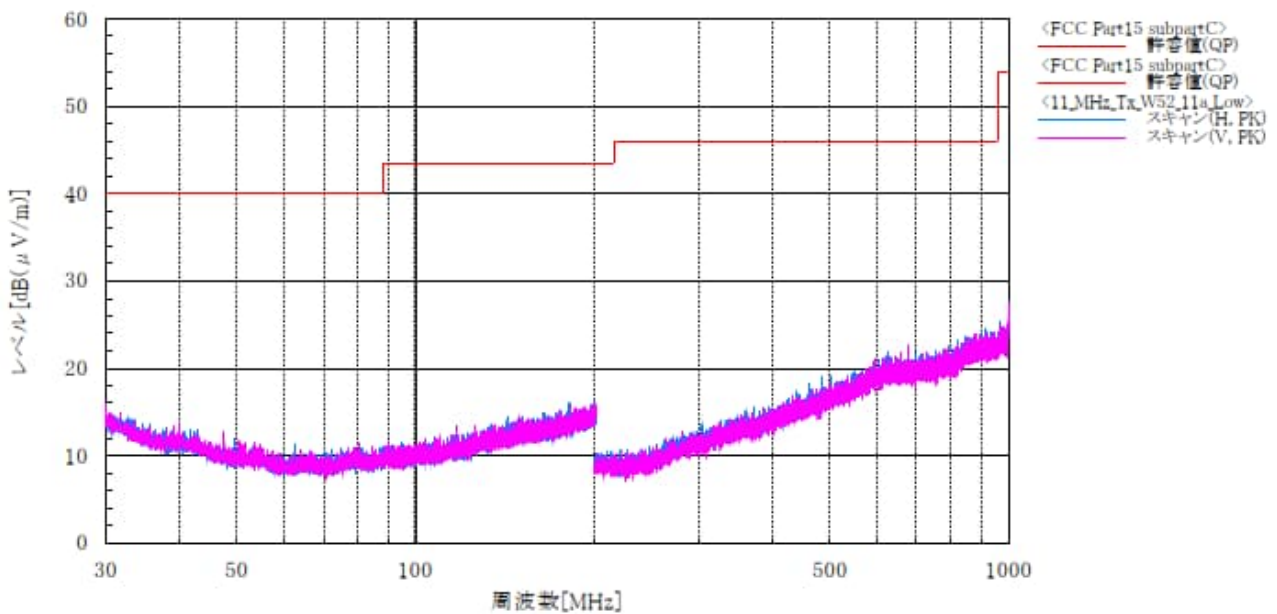
4.4.4.4 Measurement chart

Transmission mode

[11a]  
5.2 GHz Band / Channel Low  
BELOW 1GHz

Company name : KYOCERA Corporation  
EUT : Mobile Phone  
Model No. : EB1155  
Serial No. : N/A  
Test mode : WLAN W52\_11a\_Tx\_Low

Standard : FCC Part15 subpart E  
Operator : T.Seino  
Temp,Hum,Atm : 23.6 [°C] 36.6 [%]  
Note1 : CH:36 (5180MHz)  
Note2 :



Final Result

Note:

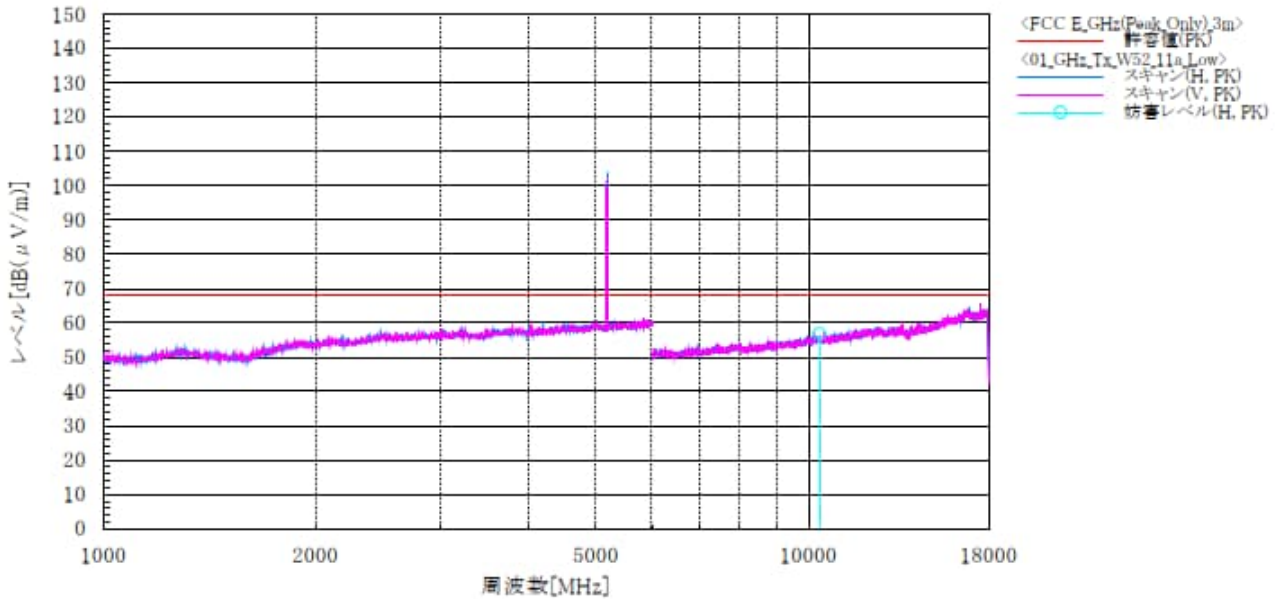
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



Japan

**[11a]**  
**5.2 GHz Band / Channel Low**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp,Hum,Atm	: 21.6 [° C], 31.6 [%]
Serial No.	: N/A	Note1	: Ch:36(5180MHz)
Test mode	: WLAN W52_11a_Tx,Low	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10360.000	H	45.7	11.1	56.8	68.2	11.4	100.0	115.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

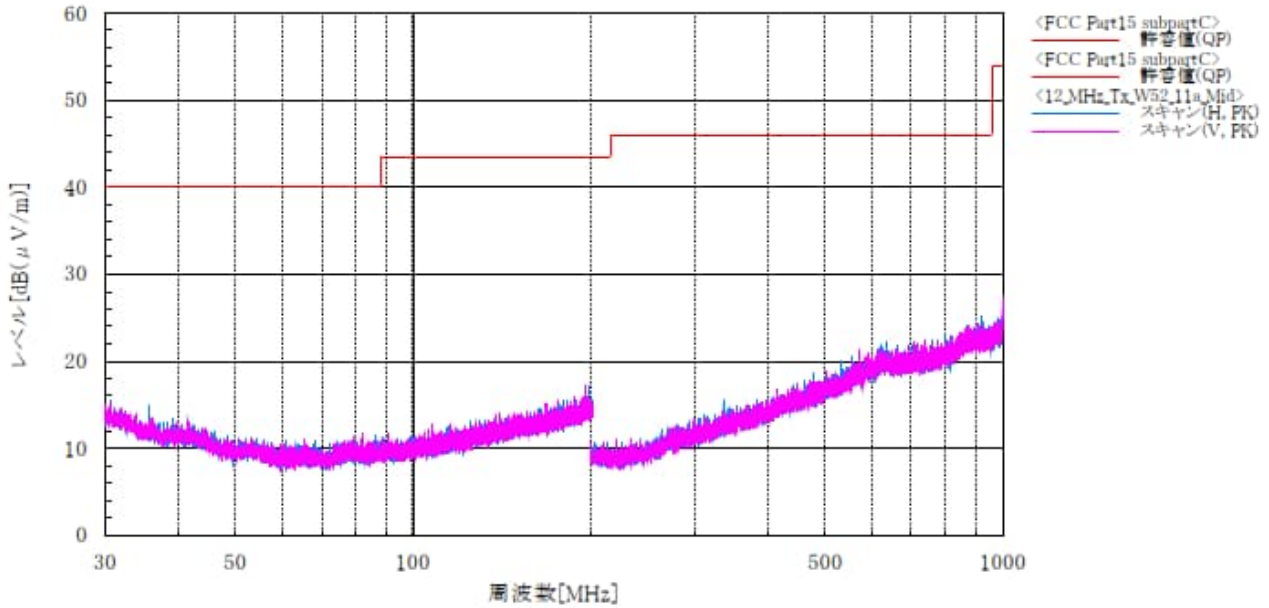




**[11a]**  
**5.2 GHz Band / Channel Middle**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN W52\_11a\_Tx\_Mid

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 23.6 [° C] 36.6 [%]  
 Note1 : CH:40 (5200MHz)  
 Note2 :



Final Result

Note:

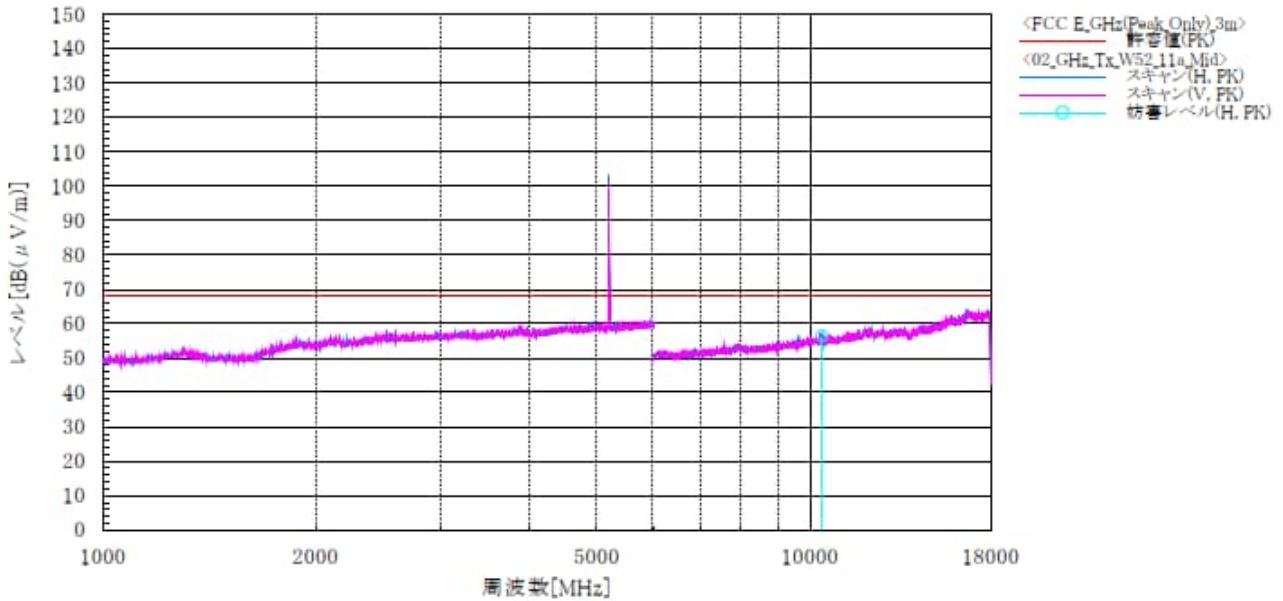
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11a]**  
**5.2 GHz Band / Channel Middle**  
**ABOVE 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN W52\_11a\_Tx\_Mid

Standard : FCC Part.15 subpart E  
 Operator : T.Seino  
 Temp.Hum.Atm : 21.6 [°C] 31.6 [%]  
 Note1 : Ch:40(5200MHz)  
 Note2 :



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10400.000	H	45.5	11.1	56.6	68.2	11.6	100.0	116.0	

Note:

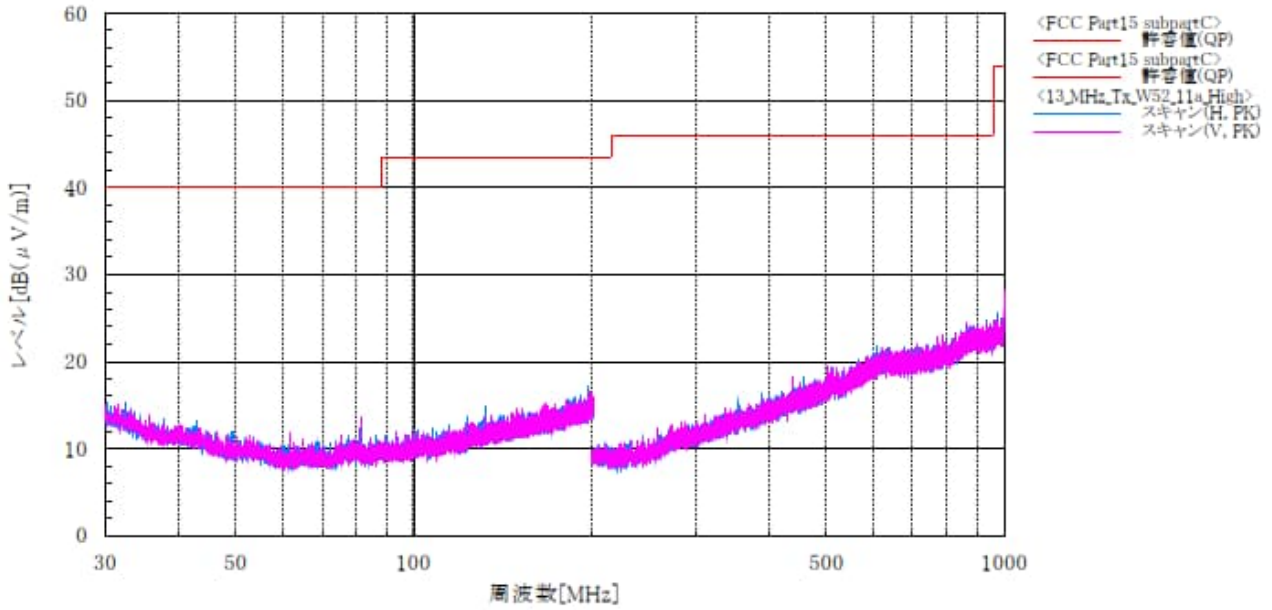
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11a]**  
**5.2 GHz Band / Channel High**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN W52\_11a\_Tx\_High

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp.Hum.Atm : 23.6 [°C] 36.6 [%]  
 Note1 : CH:48 (5240MHz)  
 Note2 :



Final Result

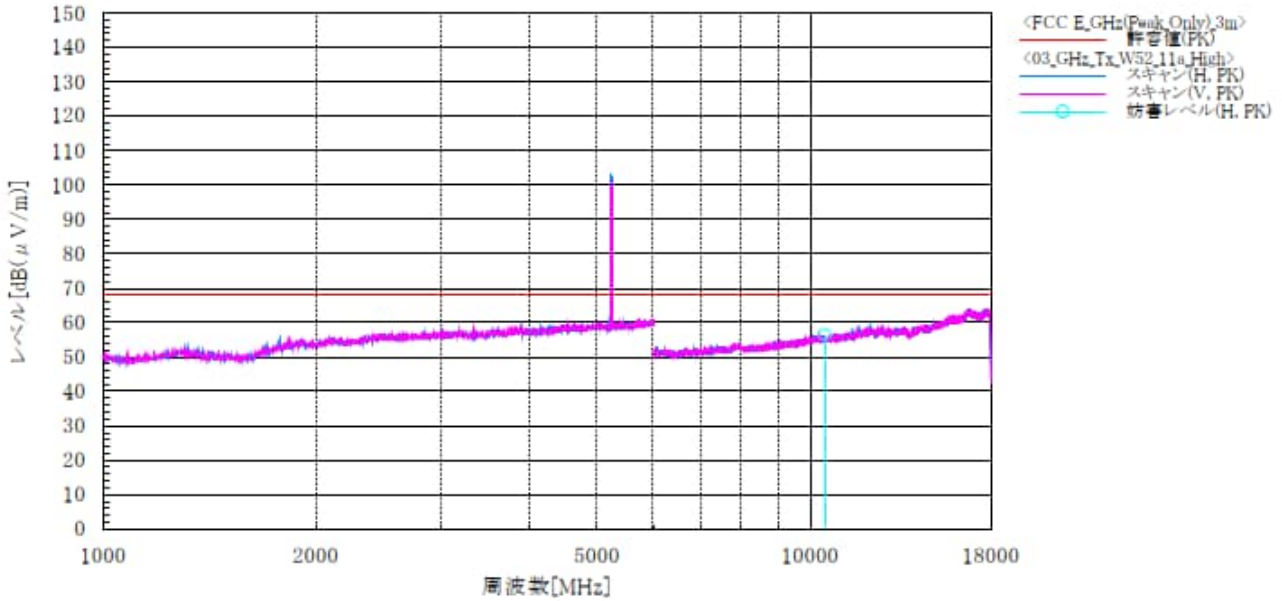
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11a]**  
**5.2 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp,Hum,Atm	: 21.6 [° C], 31.6 [%]
Serial No.	: N/A	Note1	: Ch:48(5240MHz)
Test mode	: WLAN W52_11a_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10480.000	H	45.3	11.2	56.5	68.2	11.7	100.0	114.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

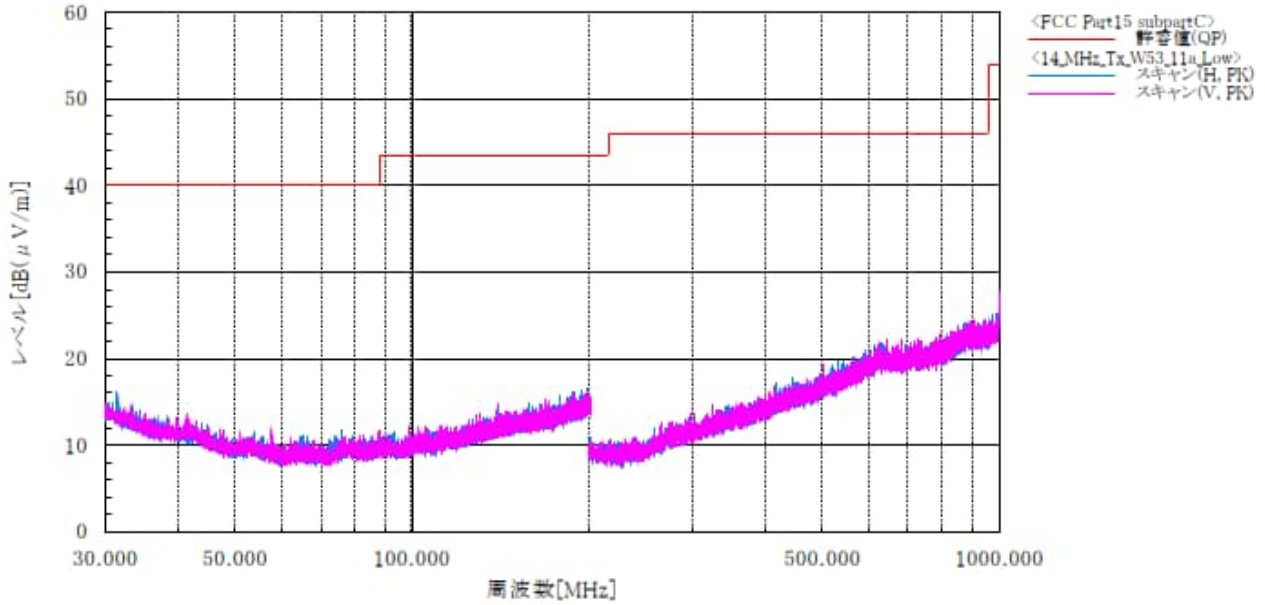


Japan

**[11a]**  
**5.3 GHz Band / Channel Low**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_11a\_W53\_Tx\_ch:Low

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 23.6 [°C] 36.6 [%]  
 Note1 : CH:52 (5260MHz)  
 Note2 :



Final Result

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

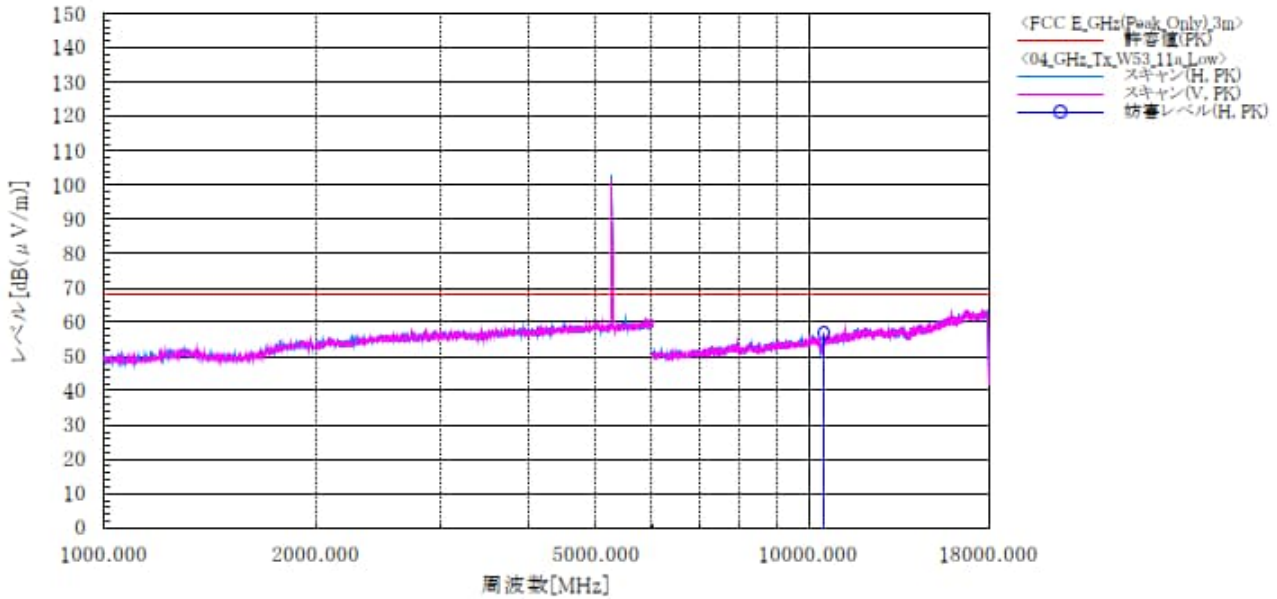


Japan

**[11a]**  
**5.3 GHz Band / Channel Low**  
**ABOVE 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_W53\_11a\_Tx\_Low

Standard : FCC Part.15 subpart E  
 Operator : T.Watanabe  
 Temp,Hum,Atm : 21.8 [°C], 26.8 [%]  
 Note1 : Ch:52(5260MHz)  
 Note2 :



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10520.000	H	45.6	11.2	56.8	68.2	11.4	100.0	225.0	

Note:

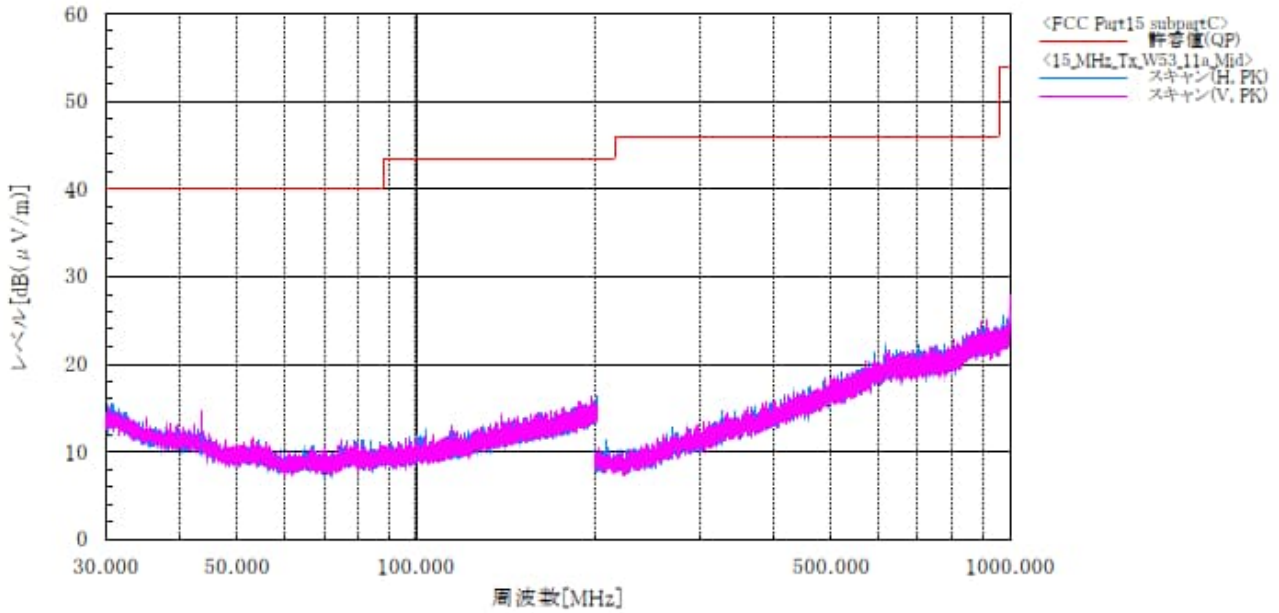
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11a]**  
**5.3 GHz Band / Channel Middle**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_11a\_W53\_Tx\_ch:Mid

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp,Hum,Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:56 5280MHz  
 Note2 :



Final Result

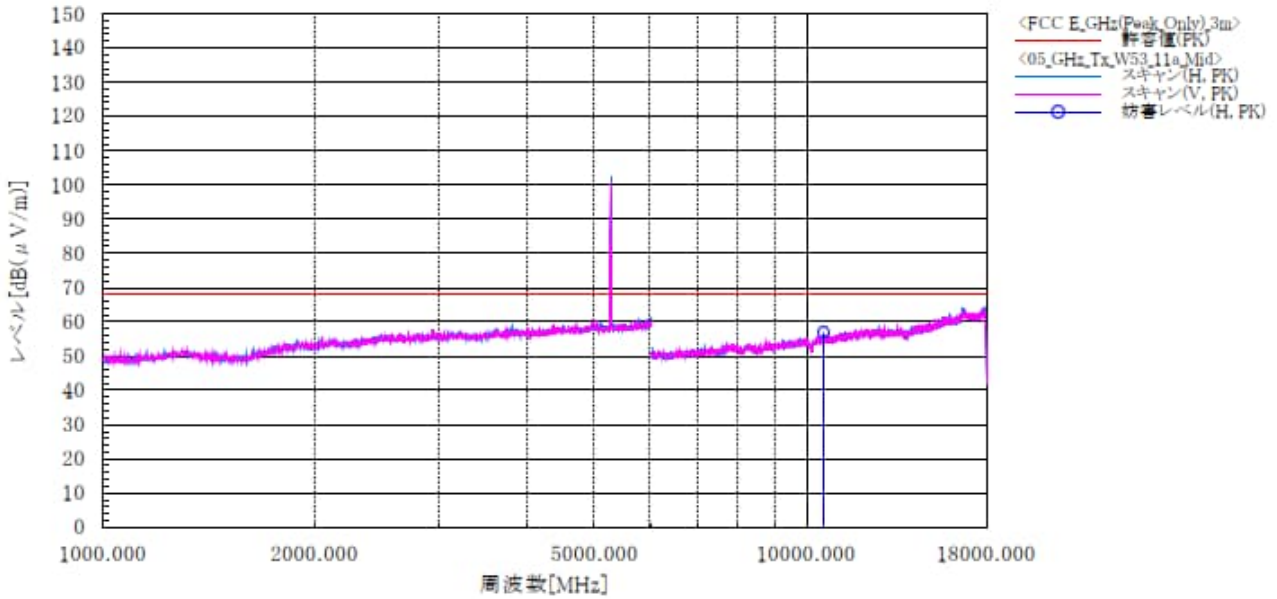
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11a]**  
**5.3 GHz Band / Channel Middle**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp,Hum,Atm	: 21.8 [°C], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:56(5280MHz)
Test mode	: WLAN_W53_11a_Tx_Mid	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10560.000	H	45.9	11.2	57.1	68.2	11.1	108.0	173.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



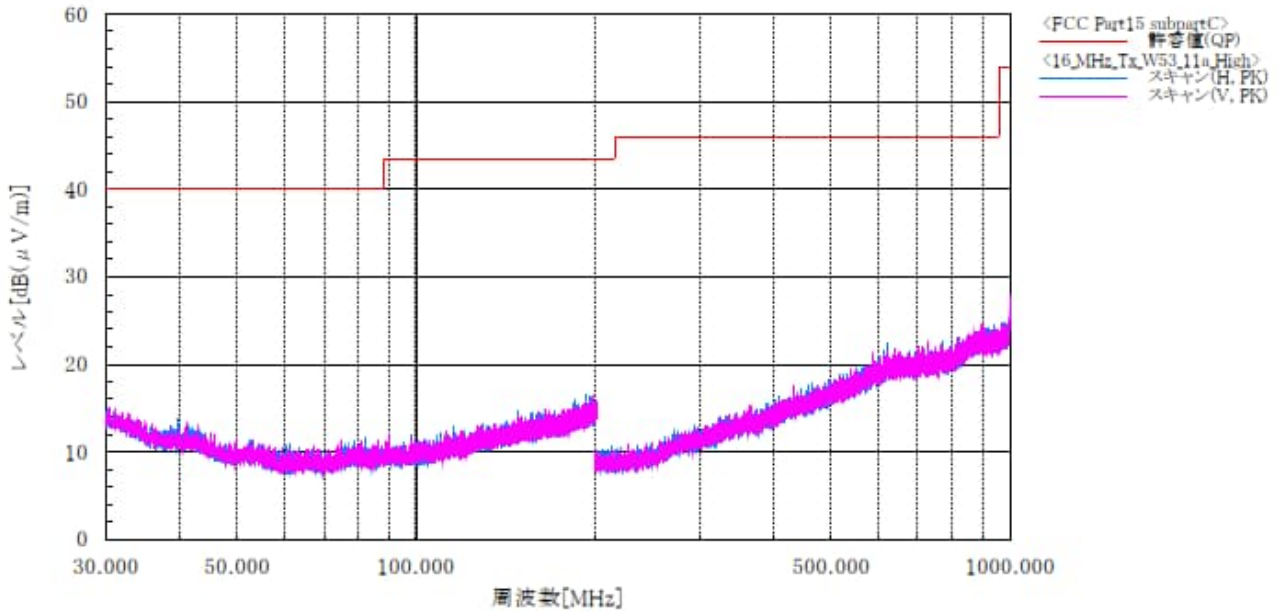


Japan

**[11a]**  
**5.3 GHz Band / Channel High**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_11a\_W53\_Tx.ch:High

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp,Hum,Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:64 5320MHz  
 Note2 :



Final Result

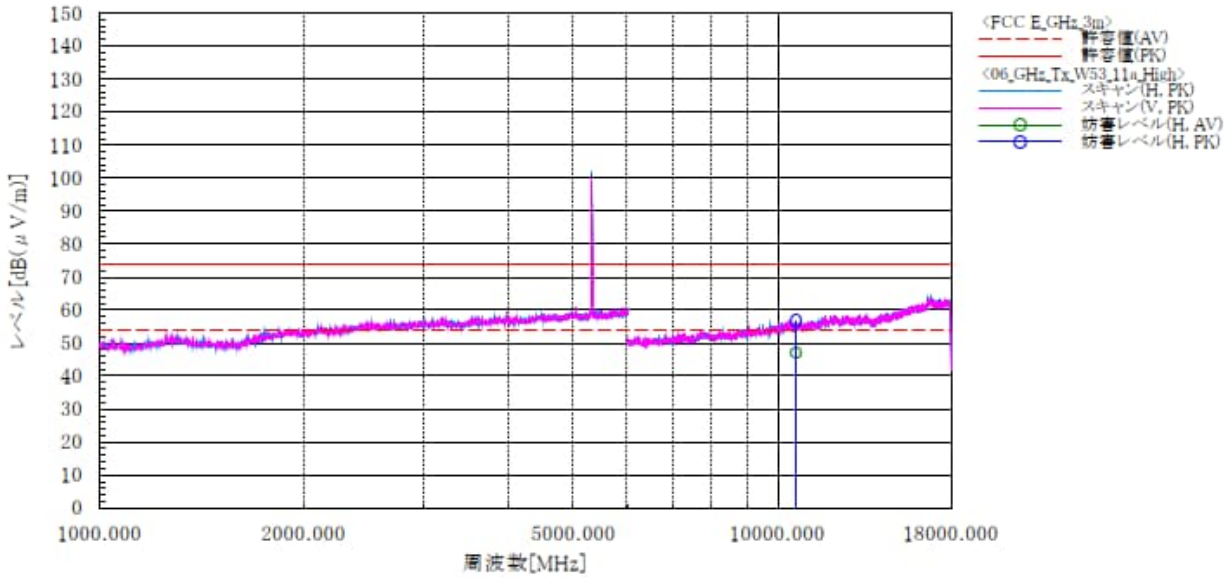
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11a]**  
**5.3 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp,Hum,Atm	: 21.8 [°C], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:64(5320MHz)
Test mode	: WLAN_W53_11a_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remarks
1	10640.000	H	35.8	45.5	11.3	47.1	56.8	54.0	74.0	6.9	17.2	108.0	173.0	

Note:

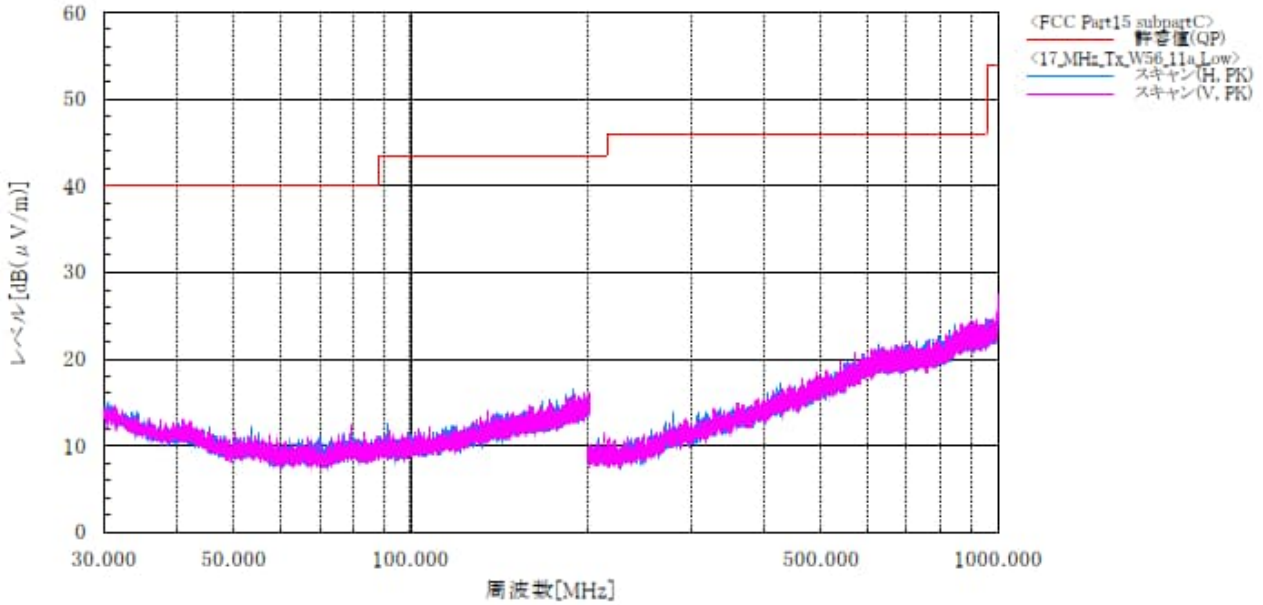
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11a]**  
**5.6 GHz Band / Channel Low**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_11a\_W56\_Tx,ch:Low

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp,Hum,Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:100 5500MHz  
 Note2 :



Final Result

Note:

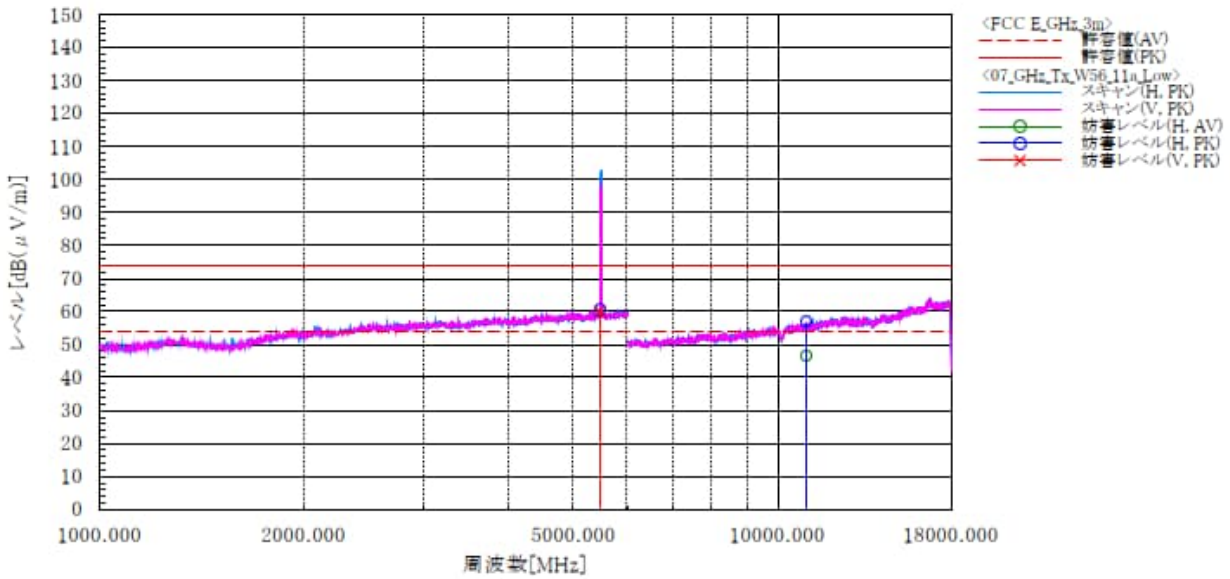
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11a]**  
**5.6 GHz Band / Channel Low**  
**ABOVE 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_W56\_11a\_Tx\_Low

Standard : FCC Part.15 subpart E  
 Operator : T.Watanabe  
 Temp,Hum,Atm : 21.8 [°C], 26.8 [%]  
 Note1 : Ch:100(5500MHz)  
 Note2 :



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remarks
1	5465.460	H		49.2	11.4		60.6		68.2		7.6	100.0	138.0	
2	5463.680	V		48.6	11.4		60.0		68.2		8.2	121.0	292.0	
3	11000.000	H	34.8	45.3	11.8	46.6	57.1	54.0	74.0	7.4	16.9	125.0	264.0	

Note:

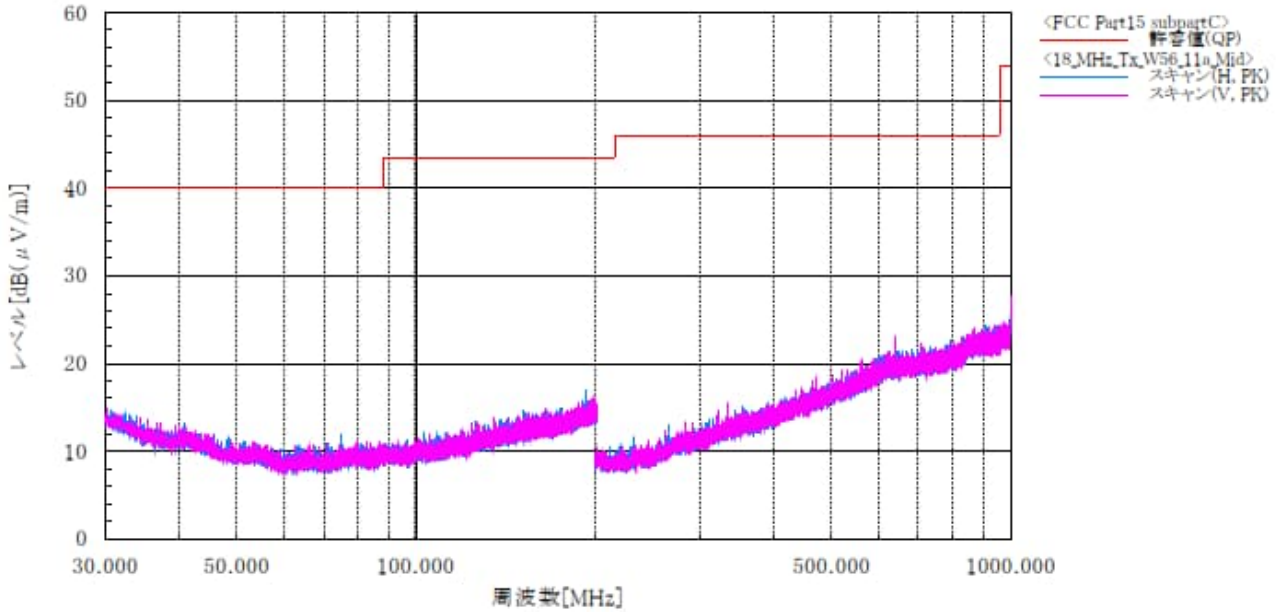
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11a]**  
**5.6 GHz Band / Channel Middle**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_11a\_W56\_Tx:ch:Mid

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp.Hum.Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:116 5580MHz  
 Note2 :



Final Result

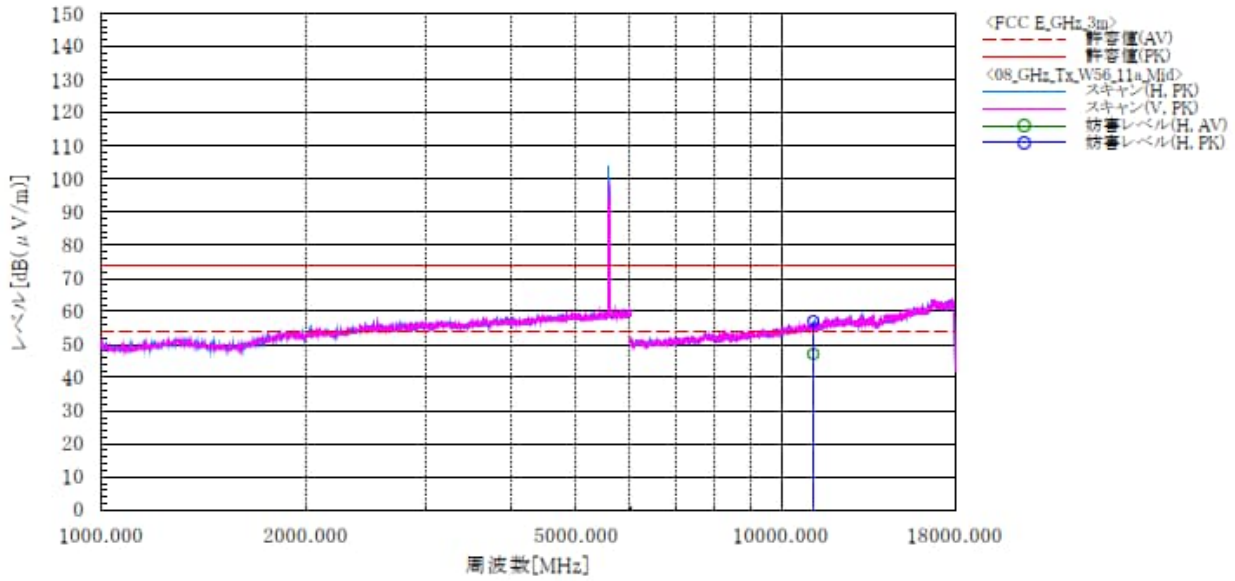
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11a]**  
**5.6 GHz Band / Channel Middle**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp.Hum.Atm	: 21.8 [°C], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:116(5580MHz)
Test mode	: WLAN_W56_11a_Tx_Mid	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Rema
1	11160.000	H	35.4	45.1	11.9	47.3	57.0	54.0	74.0	6.7	17.0	126.0	210.0	

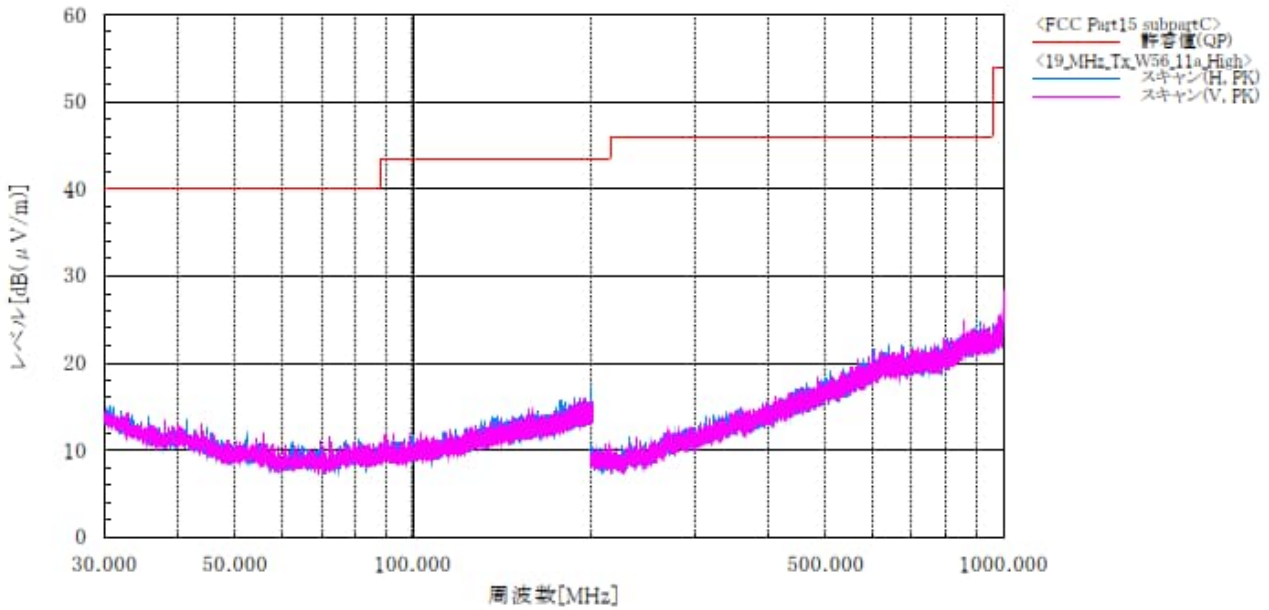
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11a]**  
**5.6 GHz Band / Channel High**  
**BELOW 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part15 subpart E
EUT	: Mobile Phone	Operator	: K.Saito
Model No.	: EB1155	Temp.Hum.Atm	: 23.0 [°C] 24.0 [%]
Serial No.	: N/A	Note1	: CH:140 5700MHz
Test mode	: WLAN_11a_W56_Tx_ch:High	Note2	:



Final Result

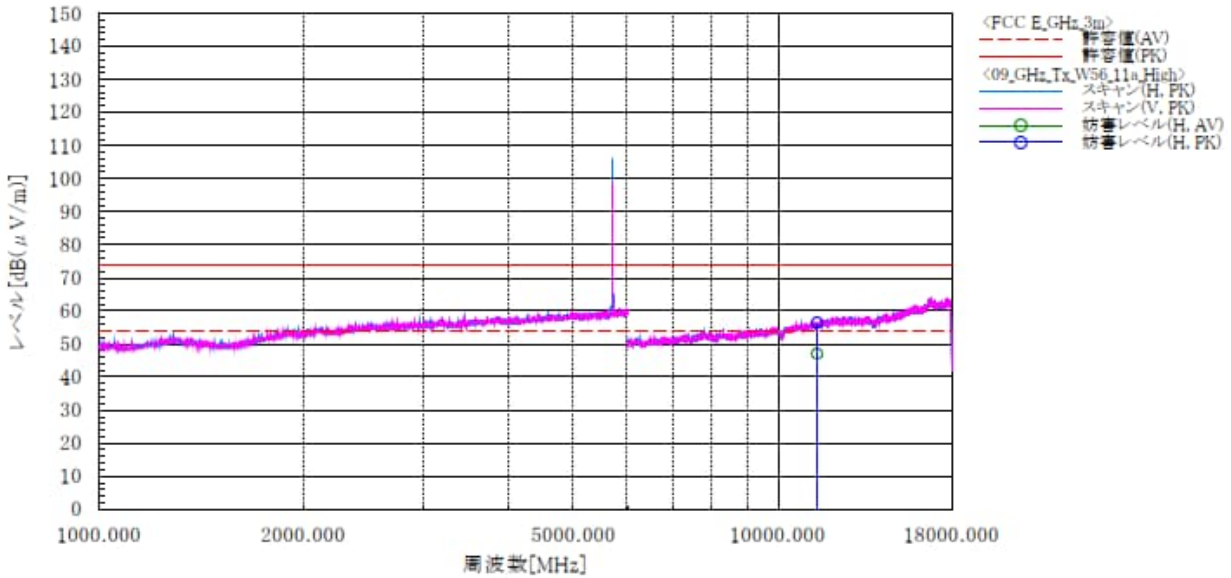
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11a]**  
**5.6 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp.Hum.Atm	: 21.8 [°C], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:140(5700MHz)
Test mode	: WLAN_W56_11a_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Repa
1	11400.000	H	35.0	44.4	12.2	47.2	56.6	54.0	74.0	6.8	17.4	126.0	242.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



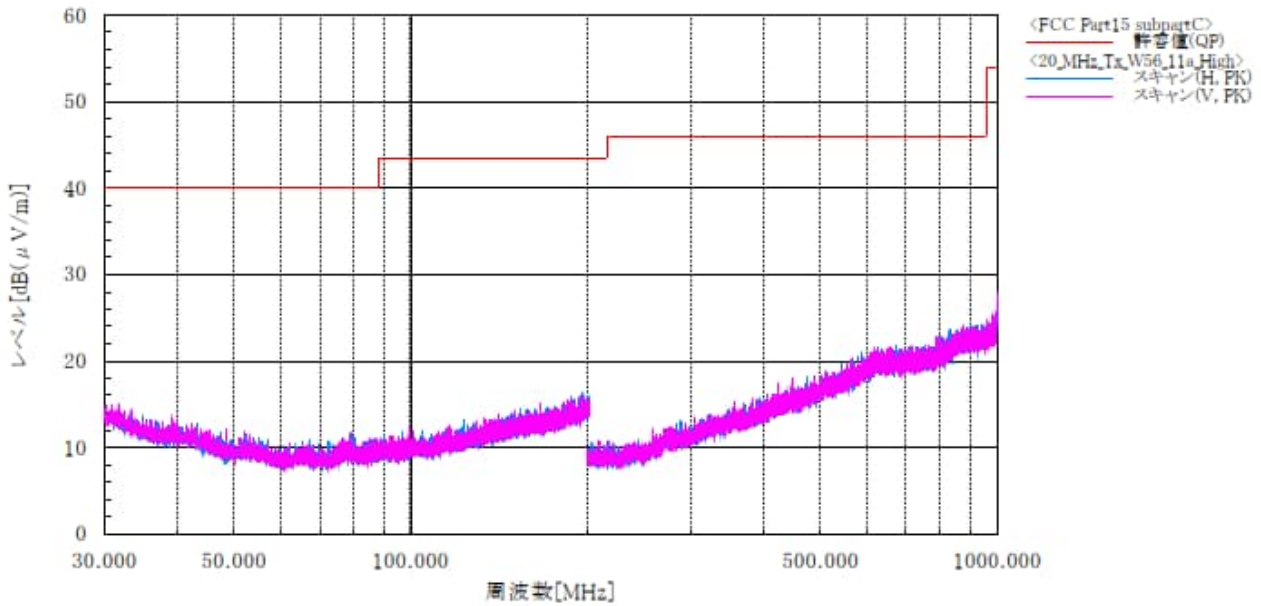


Japan

**[11a]**  
**5.6 GHz Band / Channel High**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_11a\_W56\_Tx, ch:High

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp, Hum, Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:144 5720MHz  
 Note2 :



Final Result

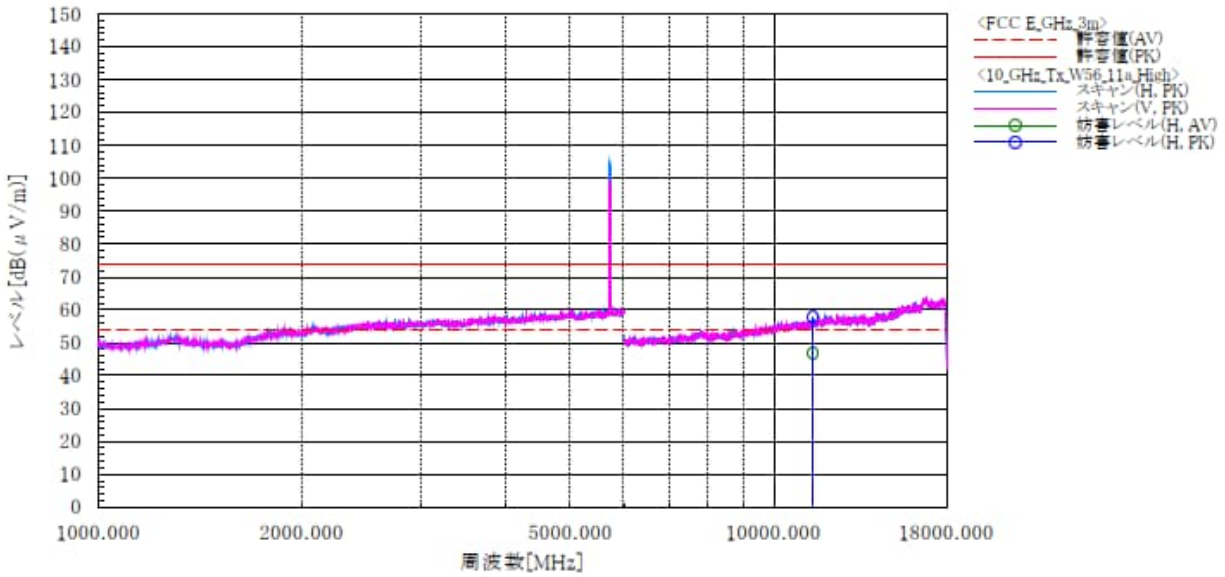
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11a]**  
**5.6 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp,Hum,Atm	: 21.8 [° C], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:144(5720MHz)
Test mode	: WLAN_W56_11a_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading FK [dB(μV)]	c.f [dB(1/m)]	Result AV [dB(μV/m)]	Result FK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit FK [dB(μV/m)]	Margin AV [dB]	Margin FK [dB]	Height [cm]	Angle [deg]	Remarks
1	11440.000	H	34.8	45.6	12.2	47.0	57.8	54.0	74.0	7.0	16.2	129.0	160.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

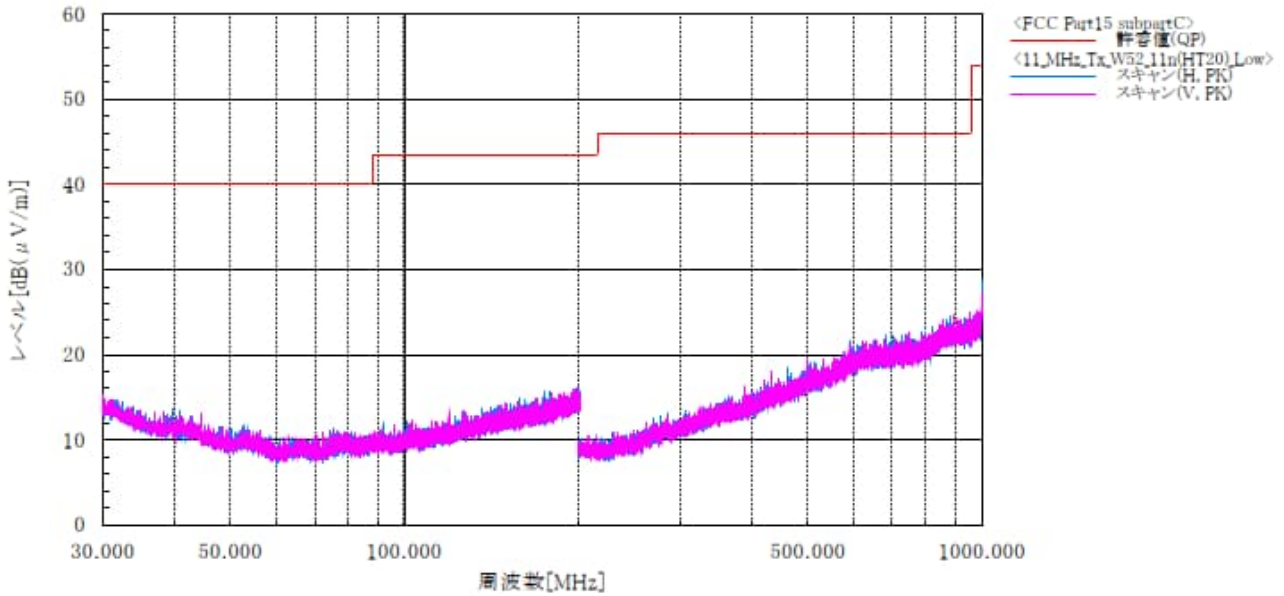


Japan

**[11n(HT20)]**  
**5.2 GHz Band / Channel Low**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_11n(HT20)\_W52\_Tx\_ch:Low

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp.Hum.Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:36 5180MHz  
 Note2 :



Final Result

Note:

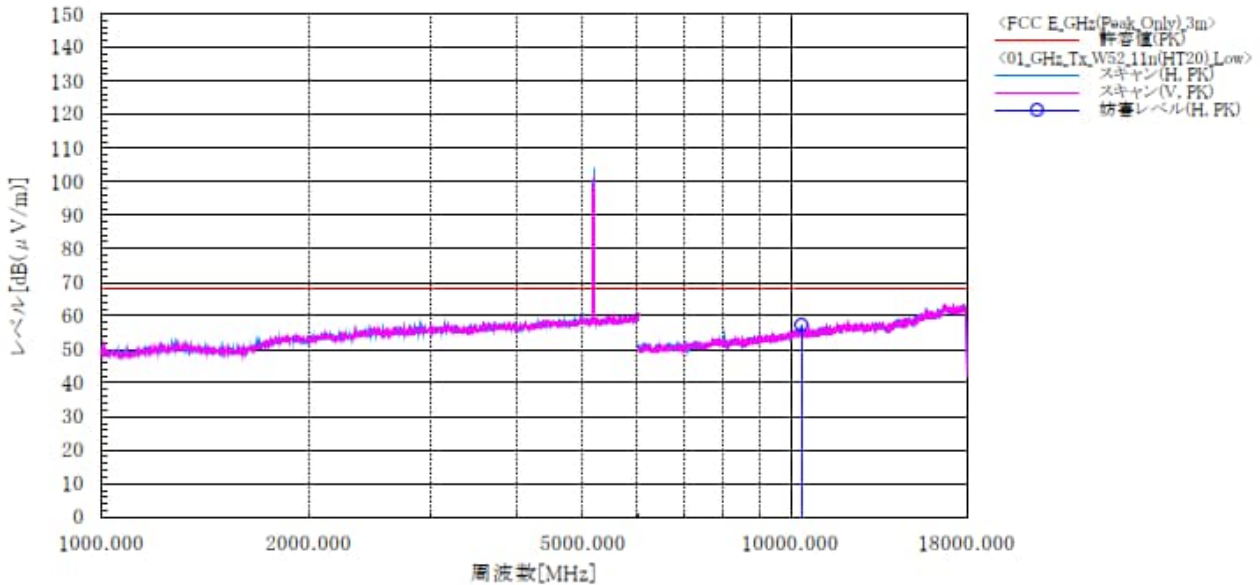
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



Japan

**[11n(HT20)]**  
**5.2 GHz Band / Channel Low**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp,Hum,Atm	: 21.8 [°C], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:36(5180MHz)
Test mode	: WLAN_W52_11n(HT20)_Tx_Low	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10360.000	H	46.3	11.1	57.4	68.2	10.8	124.0	25.0	

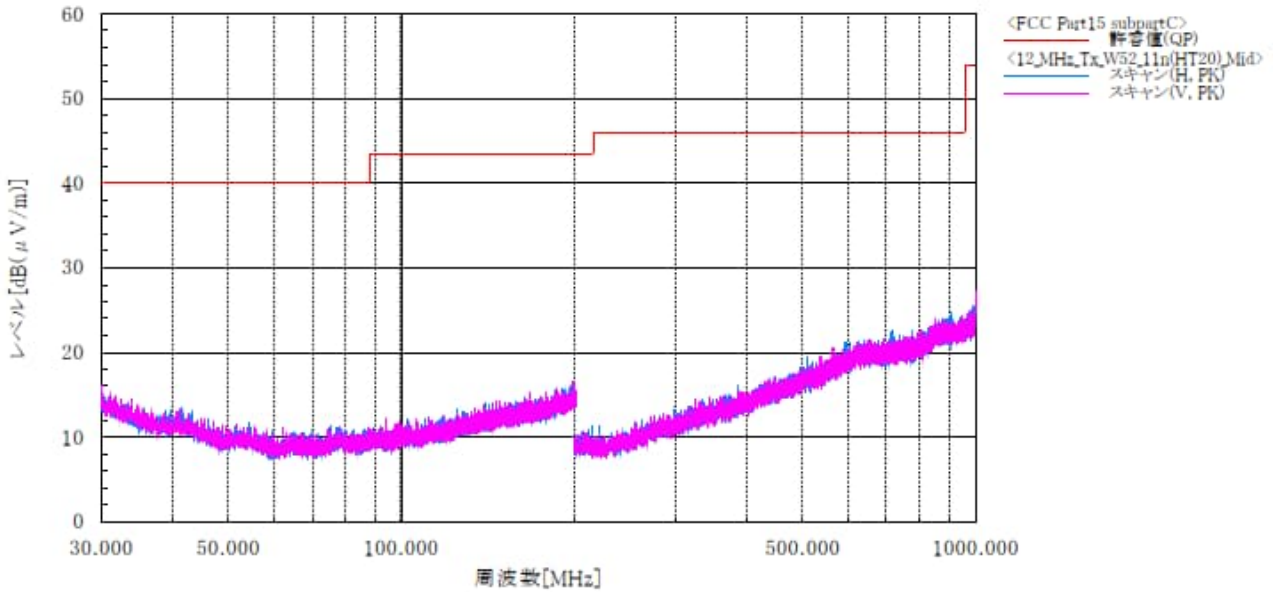
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11n(HT20)]**  
**5.2 GHz Band / Channel Middle**  
**BELOW 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part15 subpart E
EUT	: Mobile Phone	Operator	: K.Saito
Model No.	: EB1155	Temp,Hum,Atm	: 23.0 [°C] 24.0 [%]
Serial No.	: N/A	Note1	: CH:40 5200MHz
Test mode	: WLAN_11n(HT20)_W52_Tx_ch:Mid	Note2	:



Final Result

Note:

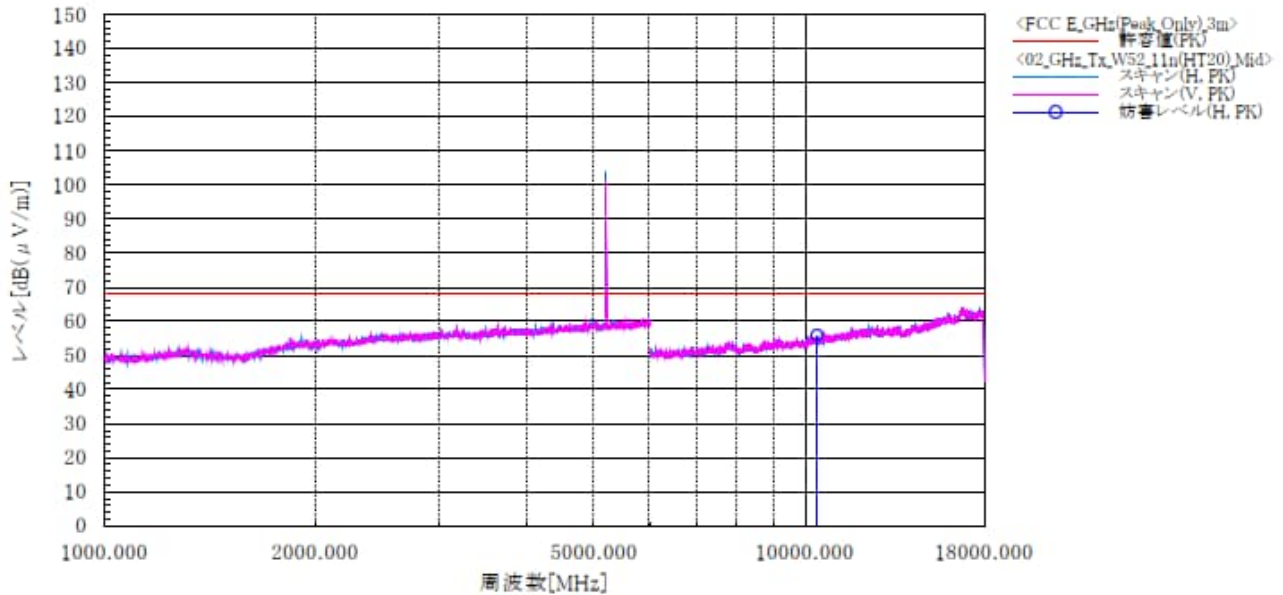
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



Japan

**[11n(HT20)]**  
**5.2 GHz Band / Channel Middle**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp.Hum.Atm	: 21.8 [° C] 26.8 [%]
Serial No.	: N/A	Note1	: Ch:40(5200MHz)
Test mode	: WLAN_W52_11n(HT20)_Tx_Mid	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10400.000	H	45.0	11.1	56.1	68.2	12.1	122.0	97.0	

Note:

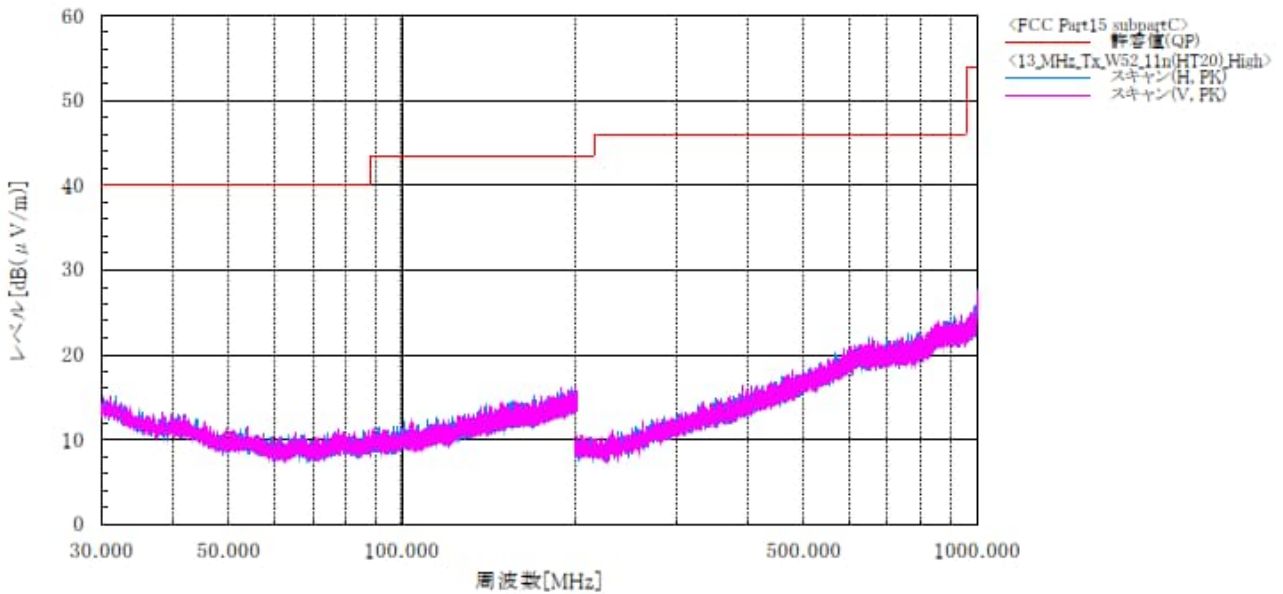
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



Japan

**[11n(HT20)]**  
**5.2 GHz Band / Channel High**  
**BELOW 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part15 subpart E
EUT	: Mobile Phone	Operator	: K.Saito
Model No.	: EB1155	Temp.Hum.Atm	: 23.0 [°C] 24.0 [%]
Serial No.	: N/A	Note1	: CH:48 5240MHz
Test mode	: WLAN_11n(HT20)_W52_Tx_ch:High	Note2	:



Final Result

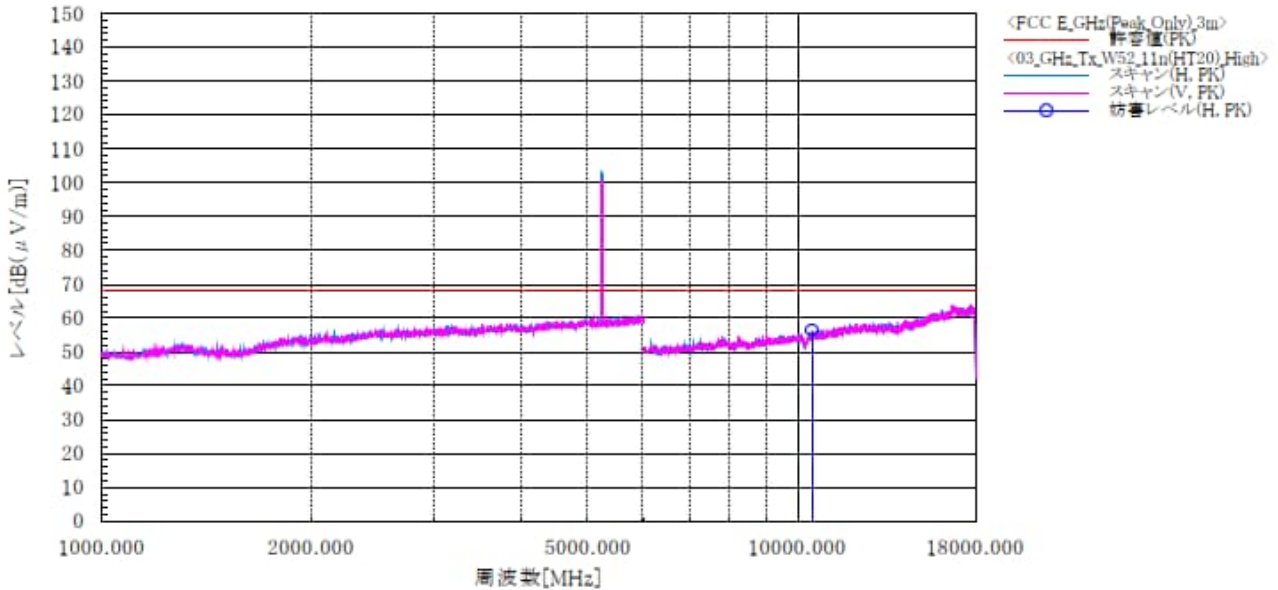
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT20)]**  
**5.2 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp.Hum.Atm	: 21.8 [°C], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:48(5240MHz)
Test mode	: WLAN_W52_11n(HT20)_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10480.000	H	45.4	11.2	56.6	68.2	11.6	123.0	150.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

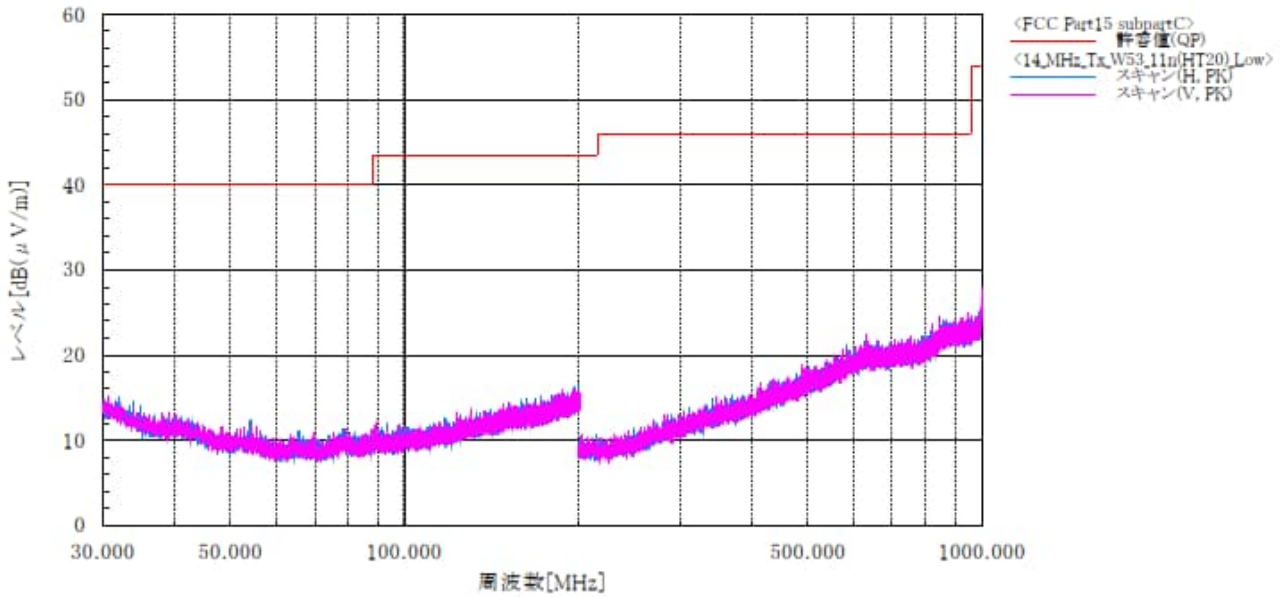




**[11n(HT20)]**  
**5.3 GHz Band / Channel Low**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_11n(HT20)\_W53\_Tx\_ch:Low

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp.Hum.Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:52 5260MHz  
 Note2 :



Final Result

Note:

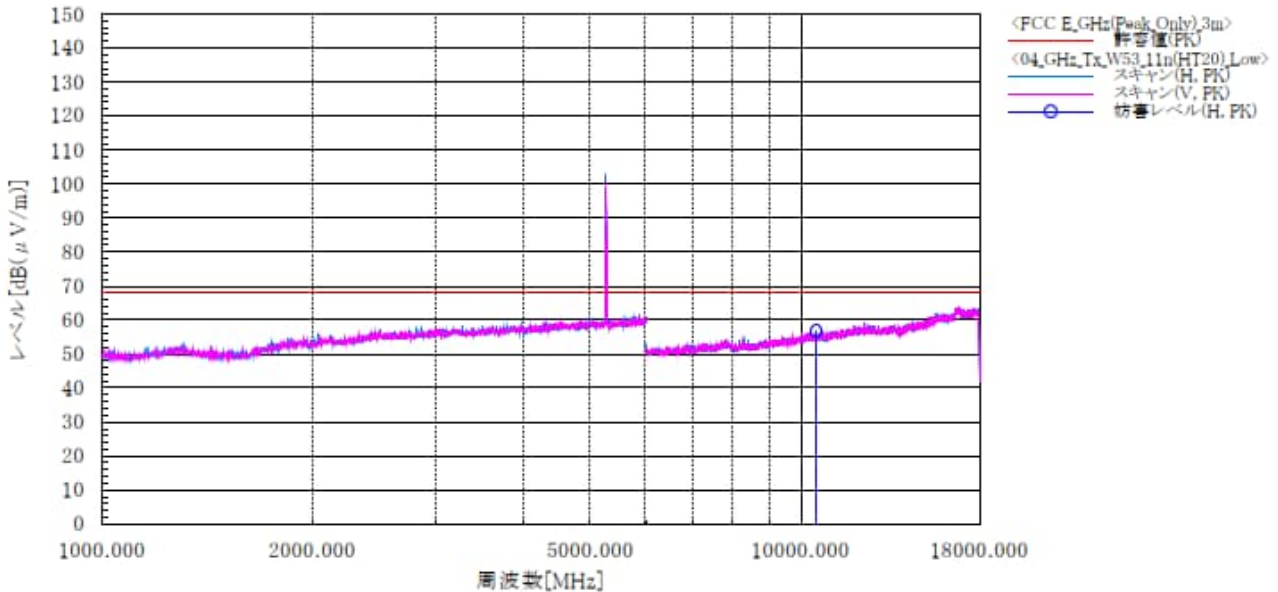
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



Japan

**[11n(HT20)]**  
**5.3 GHz Band / Channel Low**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp.Hum.Atm	: 21.8 [ ° C ], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:52(5260MHz)
Test mode	: WLAN_W53_11n(HT20)_Tx_Low	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10520.000	H	45.7	11.2	56.9	68.2	11.3	126.0	81.0	

Note:

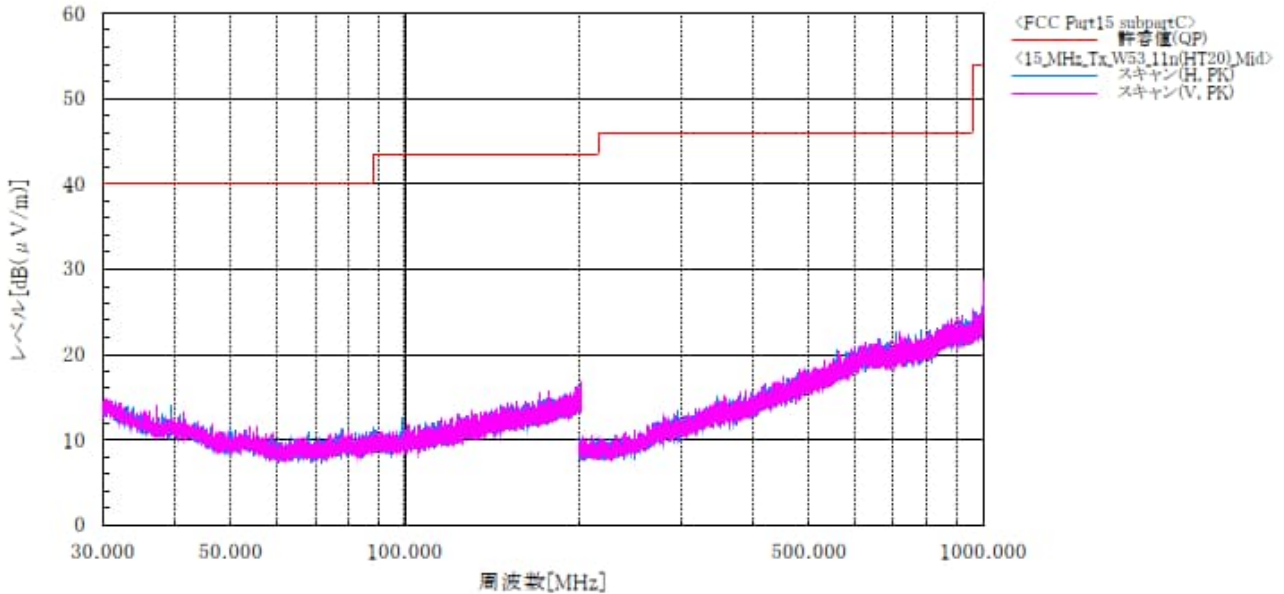
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11n(HT20)]**  
**5.3 GHz Band / Channel Middle**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_11n(HT20)\_W53\_Tx\_ch:Mid

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp.Hum.Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:56 5280MHz  
 Note2 :



Final Result

Note:

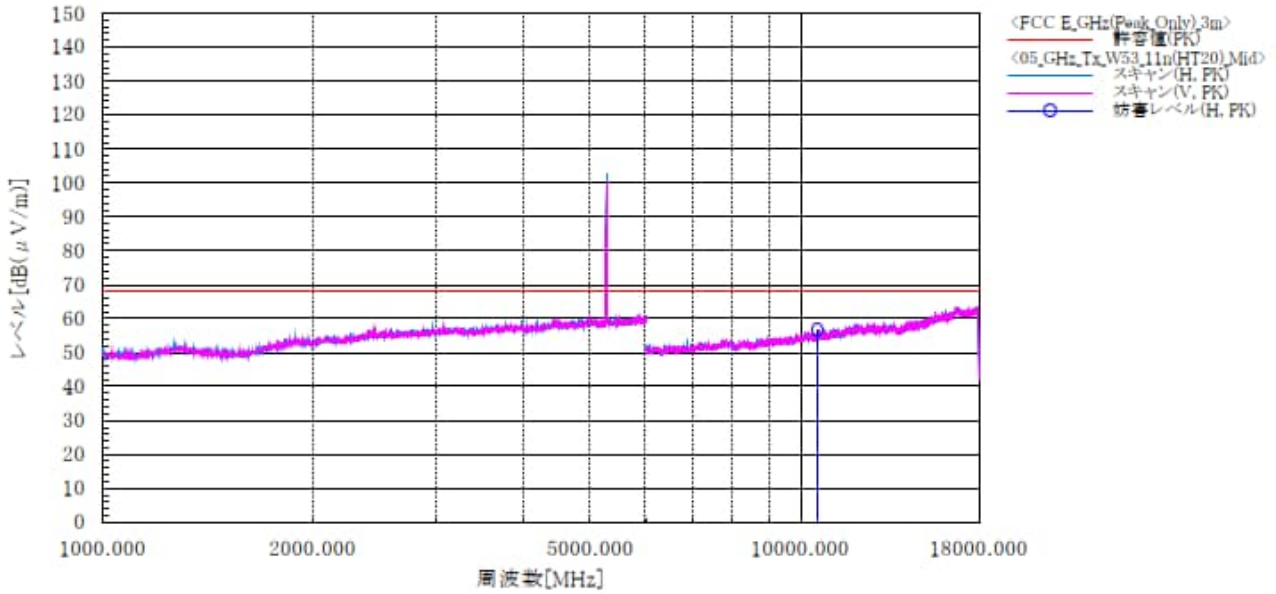
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



Japan

**[11n(HT20)]**  
**5.3 GHz Band / Channel Middle**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp,Hum,Atm	: 21.8 [°C], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:56(5280MHz)
Test mode	: WLAN_W53_11n(HT20)_Tx_Mid	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PE [dB]	Height [cm]	Angle [deg]	Remark
1	10560.000	H	45.7	11.2	56.9	68.2	11.3	127.0	121.0	

Note:

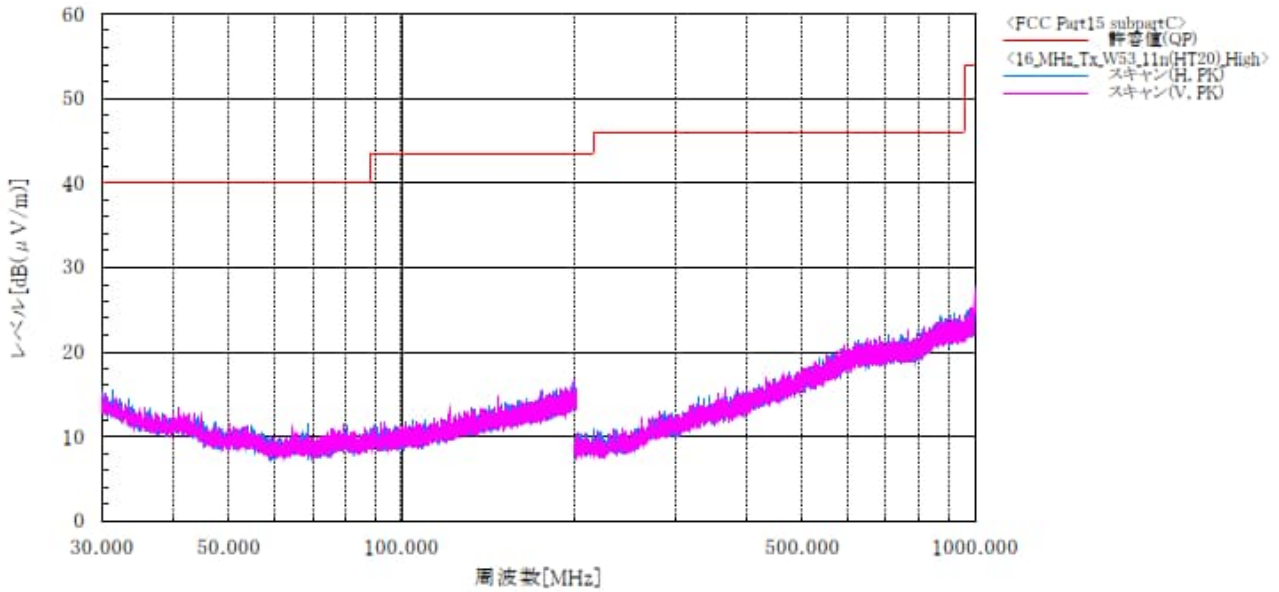
- Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
- No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



Japan

**[11n(HT20)]**  
**5.3 GHz Band / Channel High**  
**BELOW 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part15 subpart E
EUT	: Mobile Phone	Operator	: K.Saito
Model No.	: EB1155	Temp,Hum,Atm	: 23.0 [°C] 24.0 [%]
Serial No.	: N/A	Note1	: CH:64 5320MHz
Test mode	: WLAN_11n(HT20)_W53_Tx_ch:High	Note2	:



Final Result

Note:

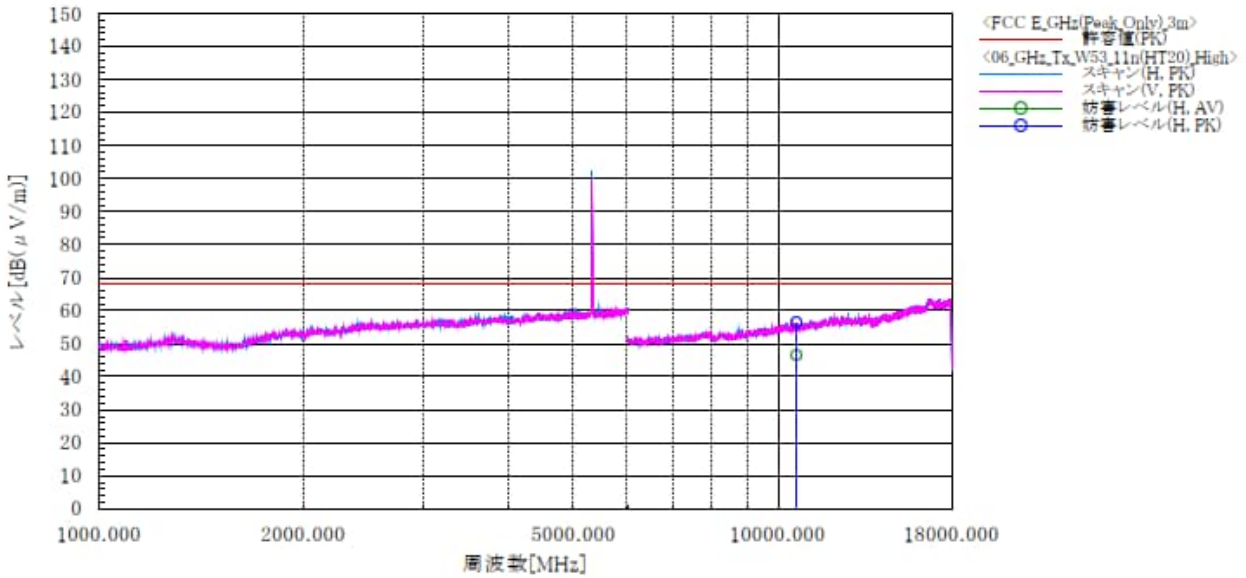
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



Japan

**[11n(HT20)]**  
**5.3 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp,Hum,Atm	: 21.8 [° C], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:64(5320MHz)
Test mode	: WLAN_W53_11n(HT20)_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remarks
1	10640.000	H	35.3	45.2	11.3	46.6	56.5	54.0	74.0	7.4	17.5	114.0	106.0	

Note:

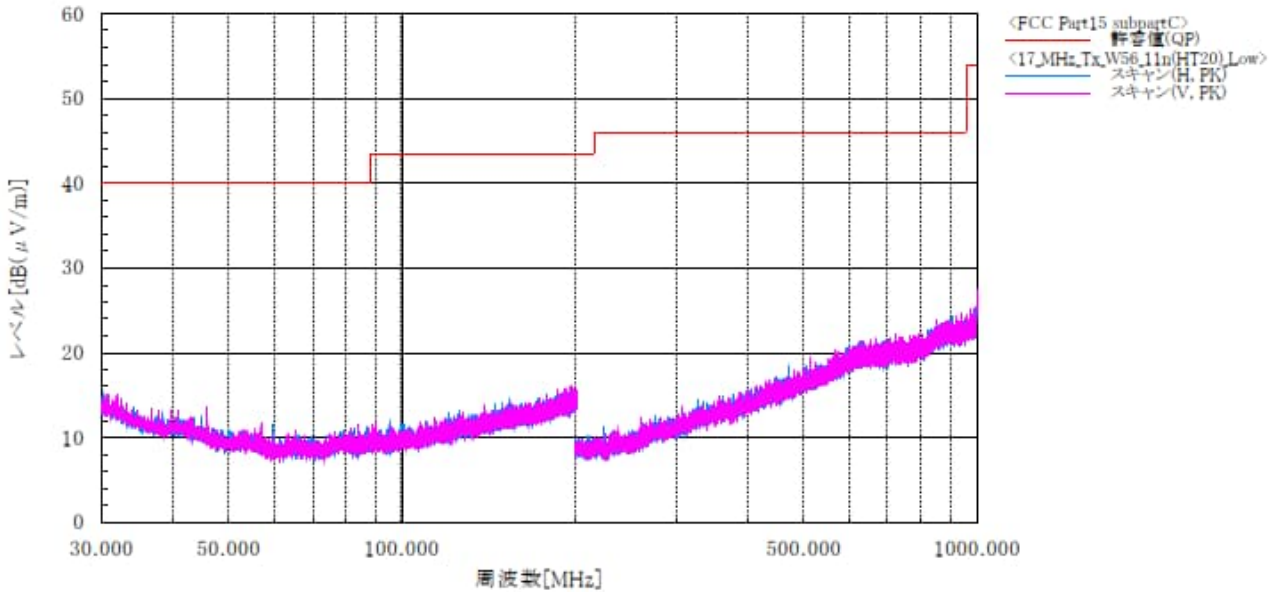
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11n(HT20)]**  
**5.6 GHz Band / Channel Low**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_11n(HT20)\_W56\_Tx\_ch:Low

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp.Hum.Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:100 5500MHz  
 Note2 :



Final Result

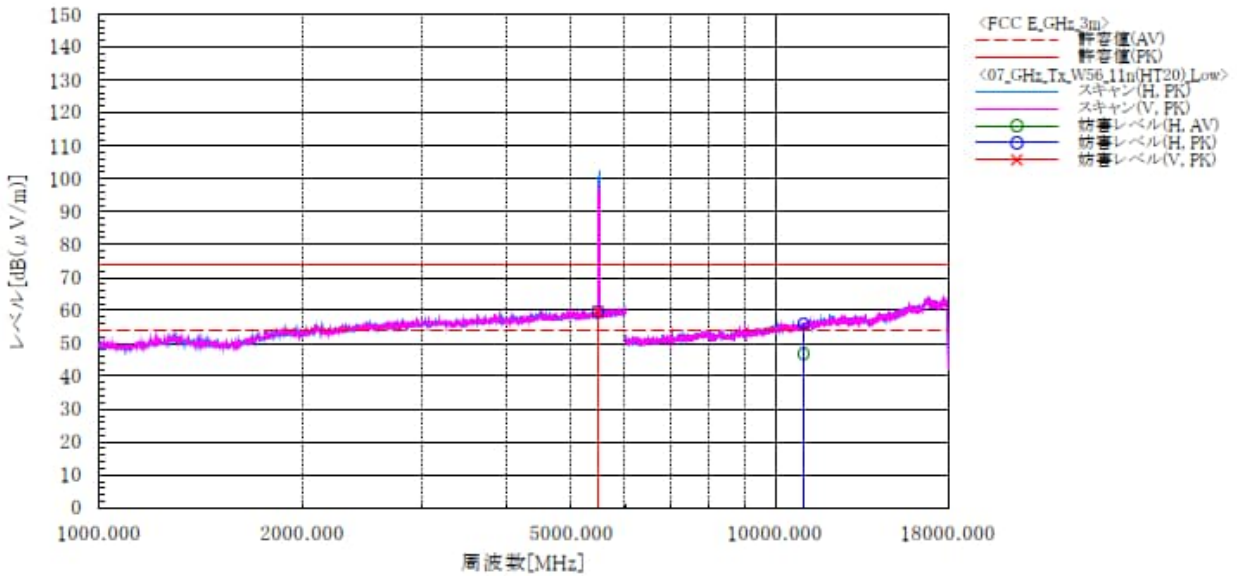
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT20)]**  
**5.6 GHz Band / Channel Low**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp,Hum,Atm	: 21.8 [ ° C ], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:100(5500MHz)
Test mode	: WLAN_W56_11n(HT20)_Tx_Low	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Rema
1	5468.805	H	48.2	48.2	11.4	59.6	59.6	68.2	68.2	8.6	8.6	145.0	108.0	
2	5469.225	V	48.3	48.3	11.4	59.7	59.7	68.2	68.2	8.5	8.5	119.0	125.0	
3	11000.000	H	34.9	44.3	11.8	46.7	56.1	54.0	74.0	7.3	17.9	108.0	139.0	

Note:

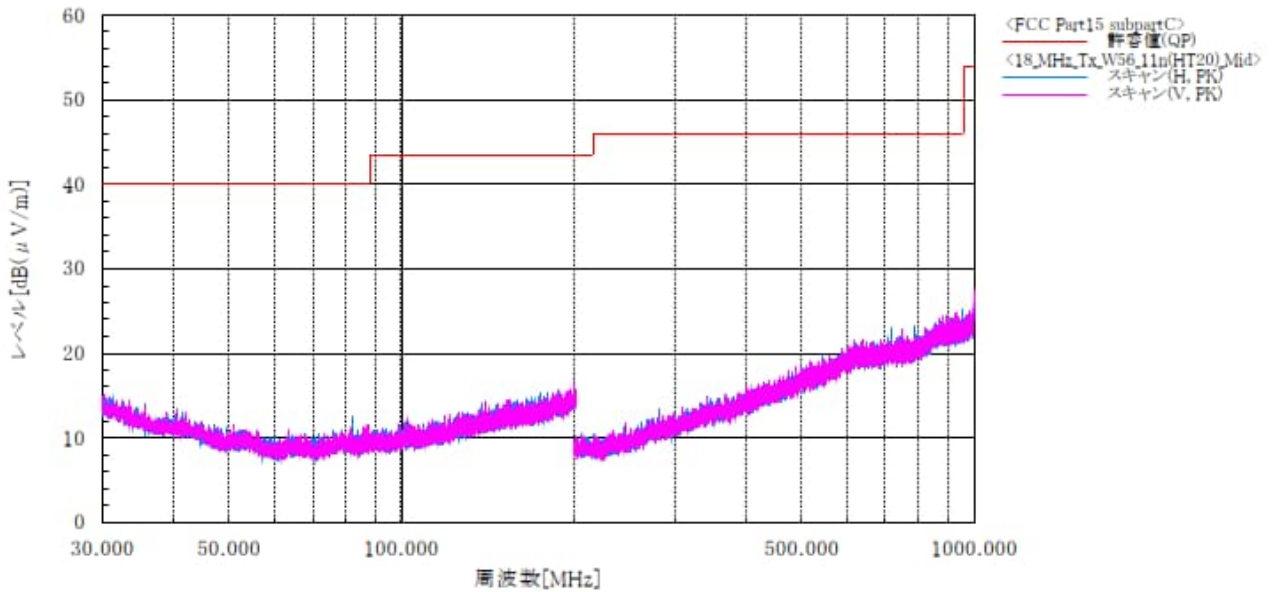
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.





**[11n(HT20)]**  
**5.6 GHz Band / Channel Middle**  
**BELOW 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part15 subpart E
EUT	: Mobile Phone	Operator	: K.Saito
Model No.	: EB1155	Temp.Hum.Atm	: 23.0 [°C] 24.0 [%]
Serial No.	: N/A	Note1	: CH:116 5580MHz
Test mode	: WLAN_11n(HT20)_W56_Tx_ch:Mid	Note2	:



Final Result

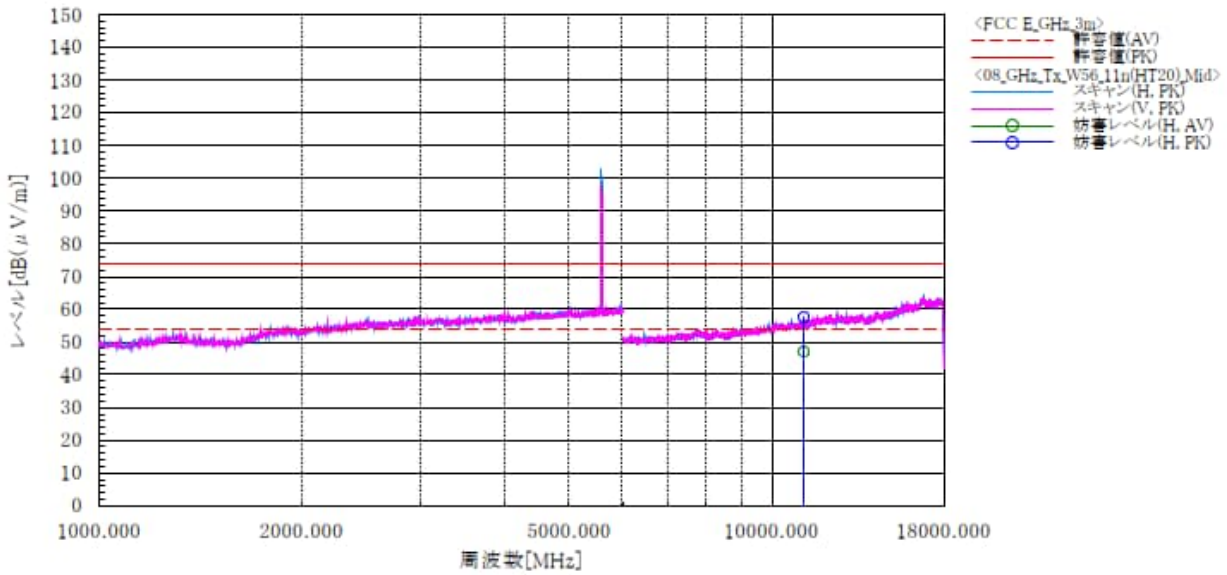
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT20)]**  
**5.6 GHz Band / Channel Middle**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp,Hum,Atm	: 21.8 [ °C ], 26.8 [%]
Serial No.	: N/A	Note1	: Ch:116(5580MHz)
Test mode	: WLAN_W56_11n(HT20)_Tx_Mid	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Rema
1	11160.000	H	35.3	45.8	11.9	47.2	57.7	54.0	74.0	6.8	16.3	132.0	108.0	

Note:

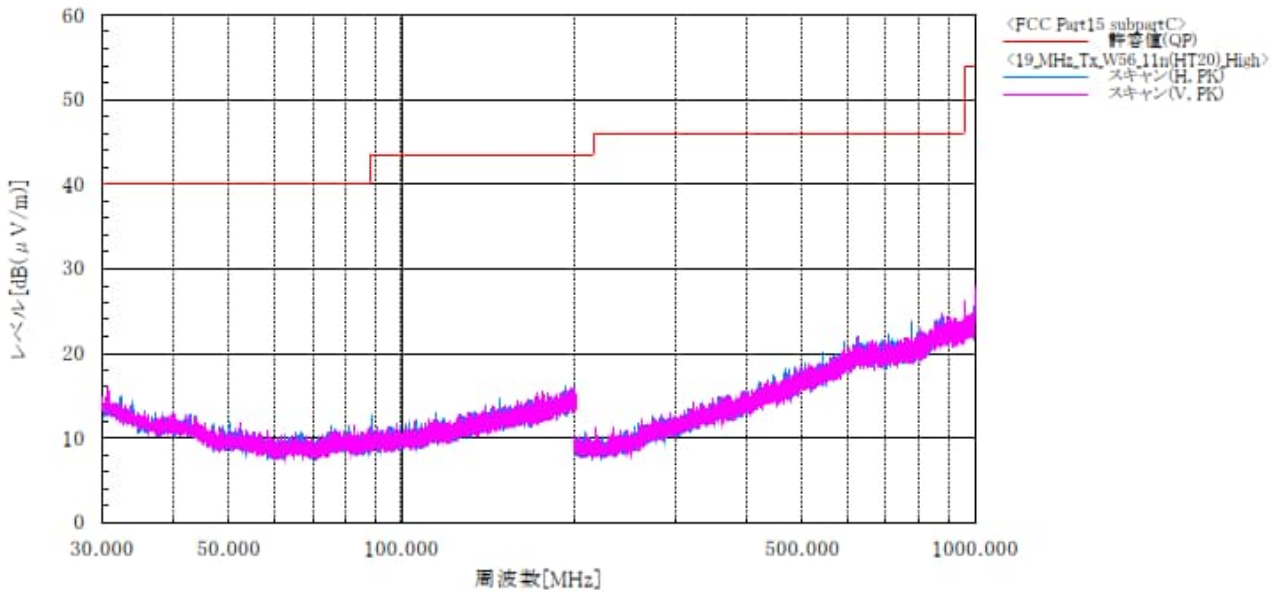
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



Japan

**[11n(HT20)]**  
**5.6 GHz Band / Channel High**  
**BELOW 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part15 subpart E
EUT	: Mobile Phone	Operator	: K.Saito
Model No.	: EB1155	Temp,Hum,Atm	: 23.0 [°C] 24.0 [%]
Serial No.	: N/A	Note1	: CH:140 5700MHz
Test mode	: WLAN_11n(HT20)_W56_Tx_ch:High	Note2	:



Final Result

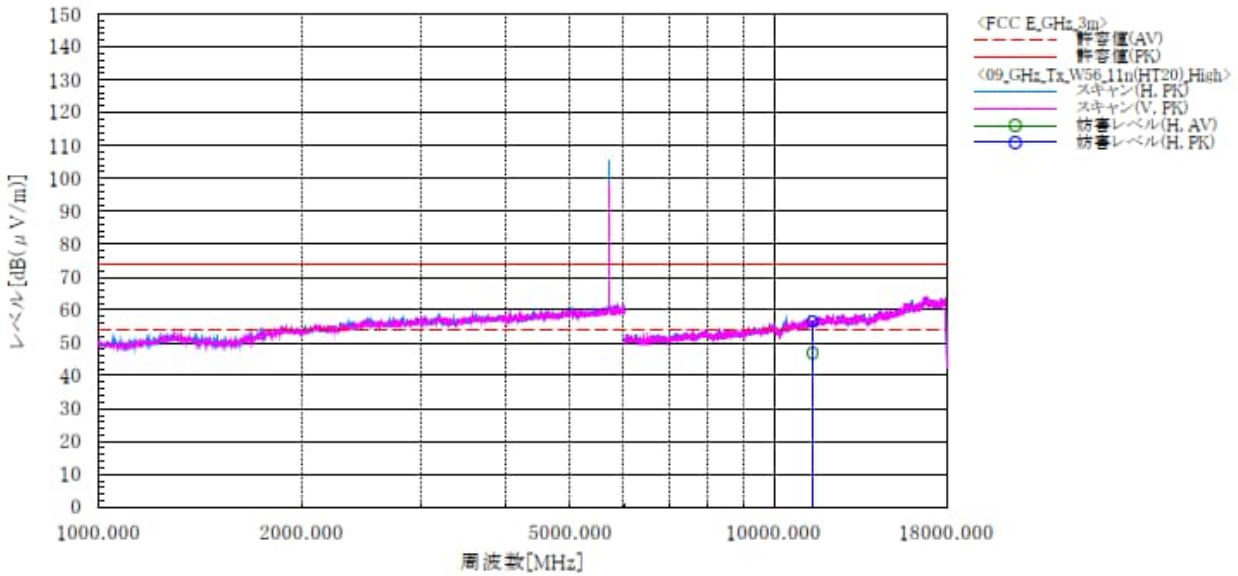
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT20)]**  
**5.6 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp,Hum,Atm	: 22.6 [ ° C], 30.5 [%]
Serial No.	: N/A	Note1	: Ch:140(5700MHz)
Test mode	: WLAN_W56_11n(HT20)_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Rema
1	11400.000	H	34.7	44.5	12.2	46.9	56.7	54.0	74.0	7.1	17.3	132.0	108.0	

Note:

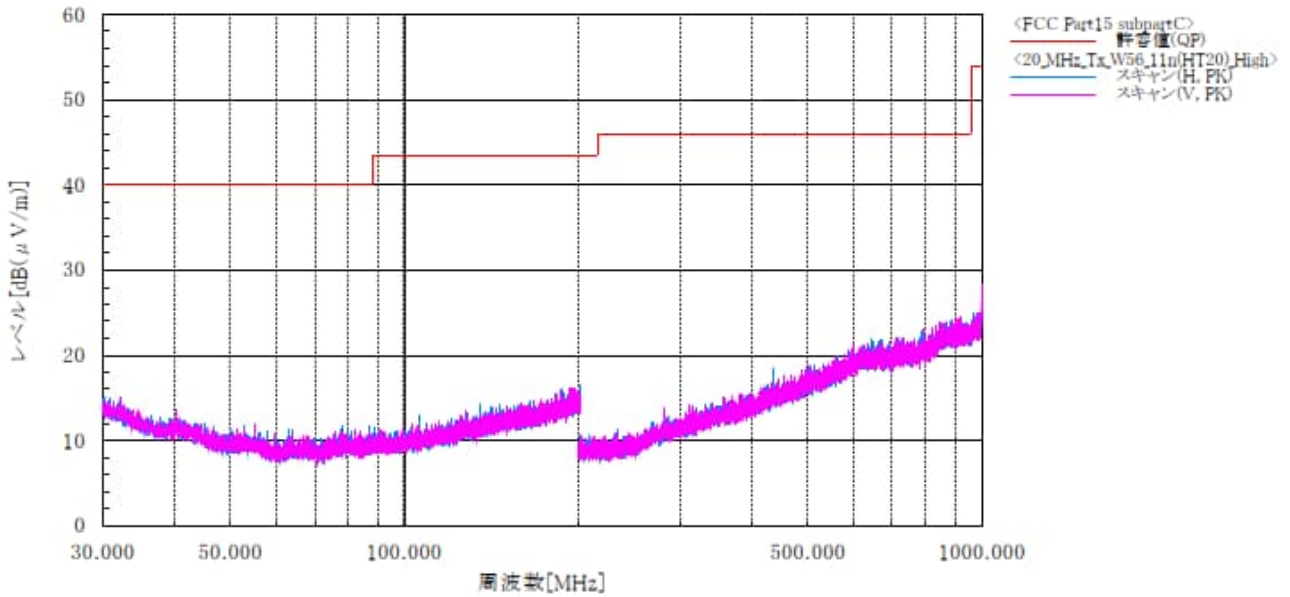
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11n(HT20)]**  
**5.6 GHz Band / Channel High**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_11n(HT20)\_W56\_Tx\_ch:High

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp.Hum.Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:144 5720MHz  
 Note2 :



Final Result

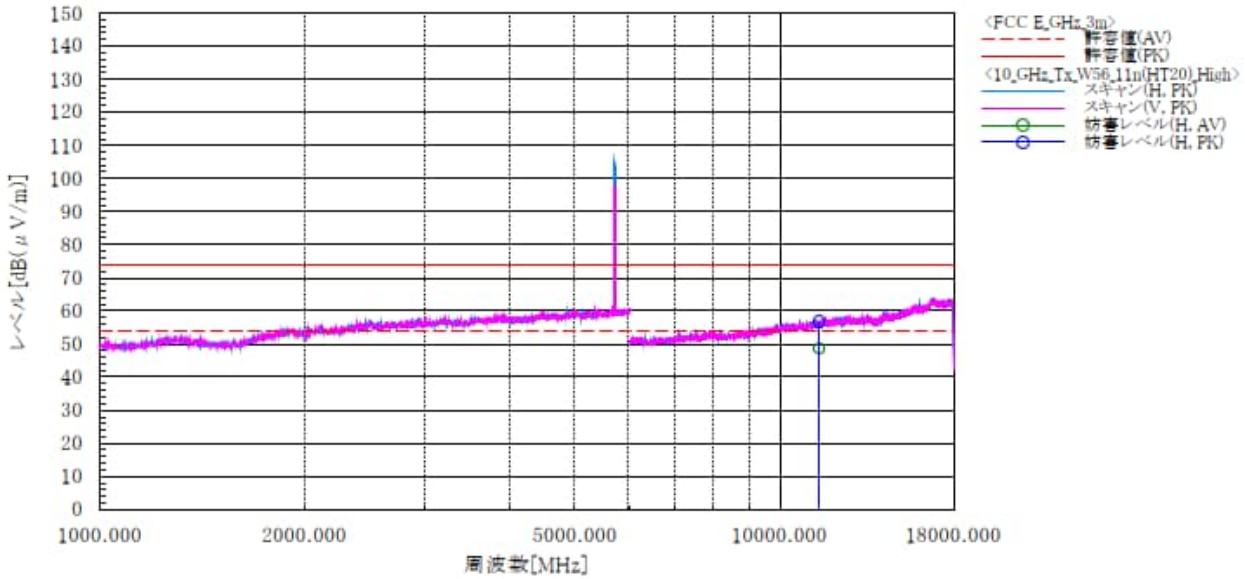
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT20)]**  
**5.6 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Watanabe
Model No.	: EB1155	Temp,Hum,Atm	: 22.6 [° C], 30.5 [%]
Serial No.	: N/A	Note1	: Ch:144(5720MHz)
Test mode	: WLAN_W56_11a_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remarks
1	11440.000	H	36.4	44.7	12.2	48.6	56.9	54.0	74.0	5.4	17.1	129.0	160.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

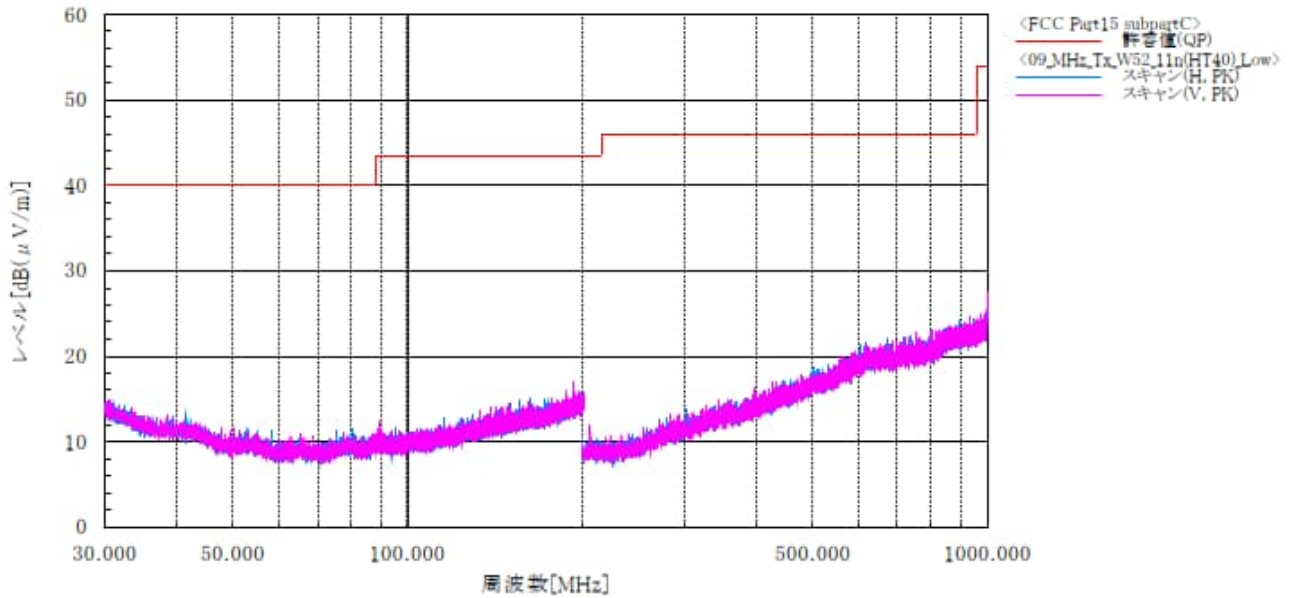


Japan

**[11n(HT40)]**  
**5.2 GHz Band / Channel Low**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W52\_11n(HT40)\_Tx\_ch:Low

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp.Hum.Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:38 5190MHz  
 Note2 :



Final Result

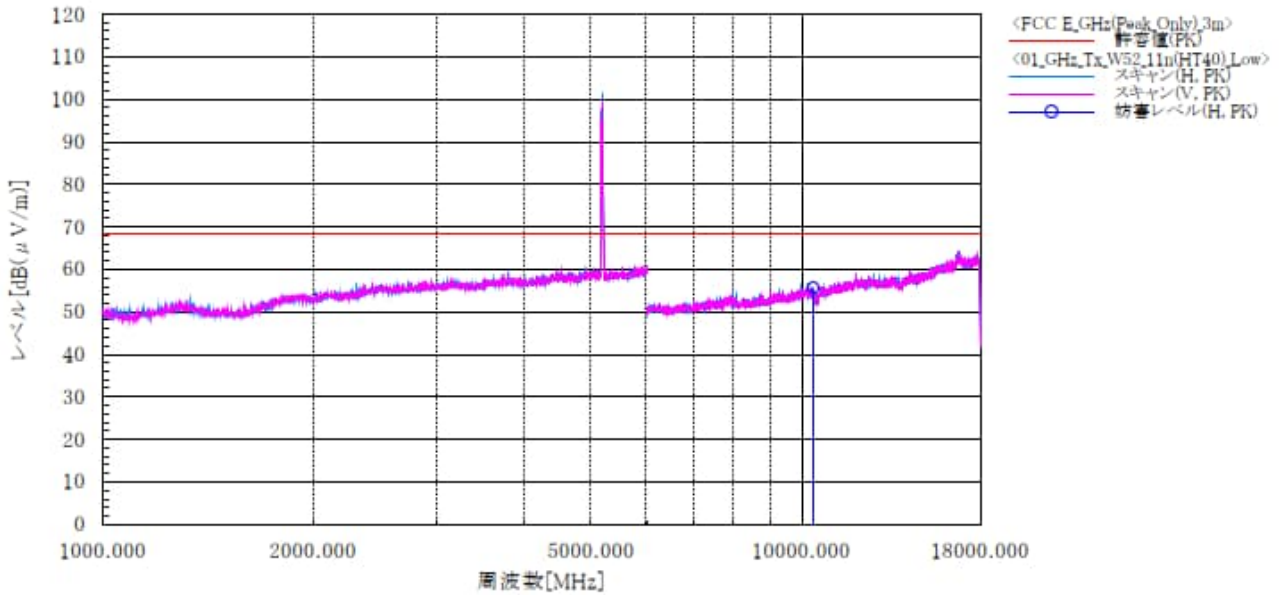
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT40)]**  
**5.2 GHz Band / Channel Low**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp.Hum.Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:38(5190MHz)
Test mode	: WLAN W52_11n(HT40)_Tx_Low	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margint PK [dB]	Height [cm]	Angle [deg]	Remark
1	10380.000	H	44.6	11.1	55.7	68.2	12.5	143.0	118.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

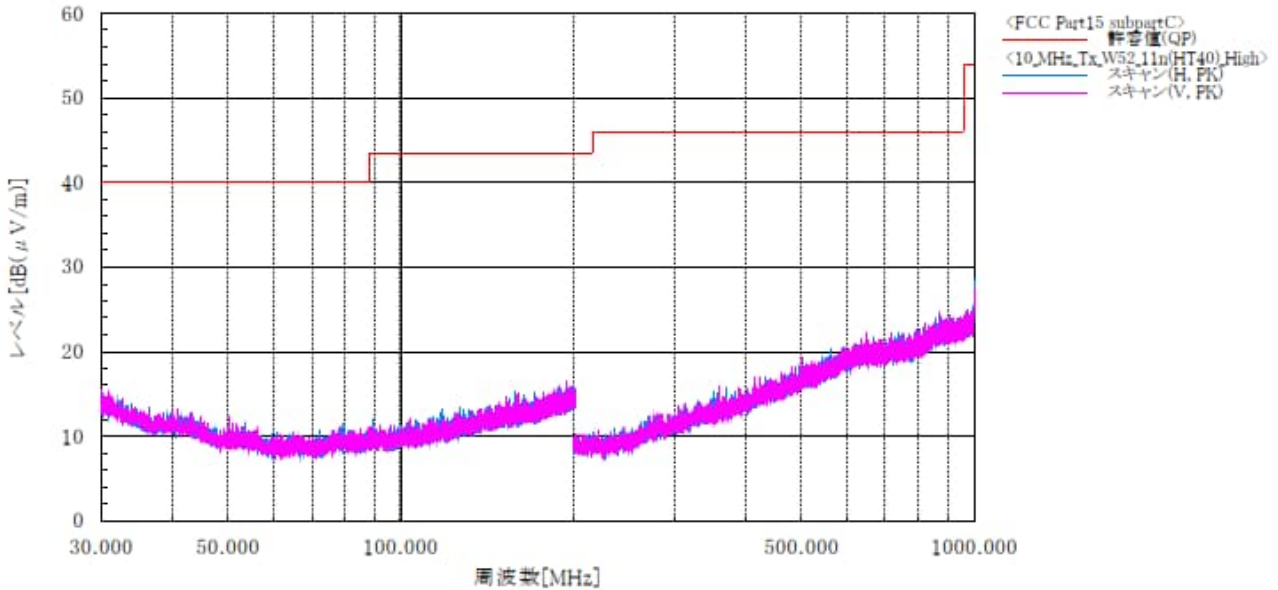




Japan

**[11n(HT40)]**  
**5.2 GHz Band / Channel High**  
**BELOW 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part15 subpart E
EUT	: Mobile Phone	Operator	: K.Saito
Model No.	: EB1155	Temp.Hum.Atm	: 23.0 [°C] 24.0 [%]
Serial No.	: N/A	Note1	: CH:46 5230MHz
Test mode	: 5GHz_W52_11n(HT40)_Tx,ch:High	Note2	:



Final Result

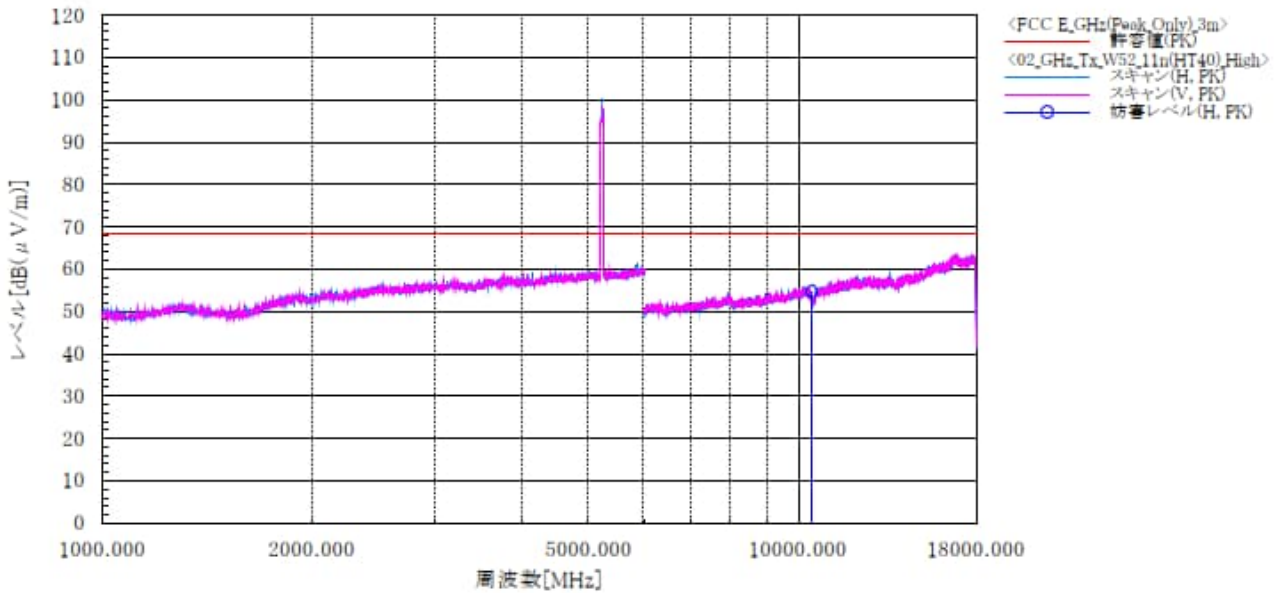
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT40)]**  
**5.2 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp,Hum,Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:46(5230MHz)
Test mode	: WLAN W52_11n(HT40)_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10460.000	H	43.5	11.2	54.7	68.2	13.5	151.0	115.0	

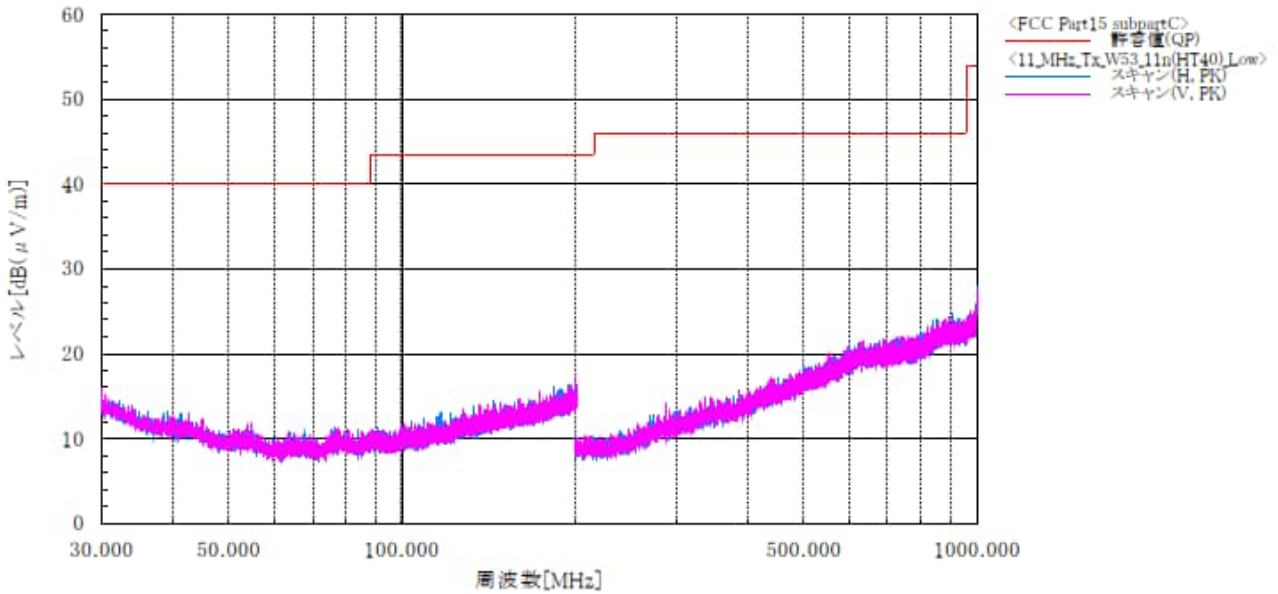
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11n(HT40)]**  
**5.3 GHz Band / Channel Low**  
**BELOW 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part15 subpart E
EUT	: Mobile Phone	Operator	: K.Saito
Model No.	: EB1155	Temp,Hum,Atm	: 23.0 [°C] 24.0 [%]
Serial No.	: N/A	Note1	: CH:54 5270MHz
Test mode	: 5GHz_W53_11n(HT40)_Tx_ch:Low	Note2	:



Final Result

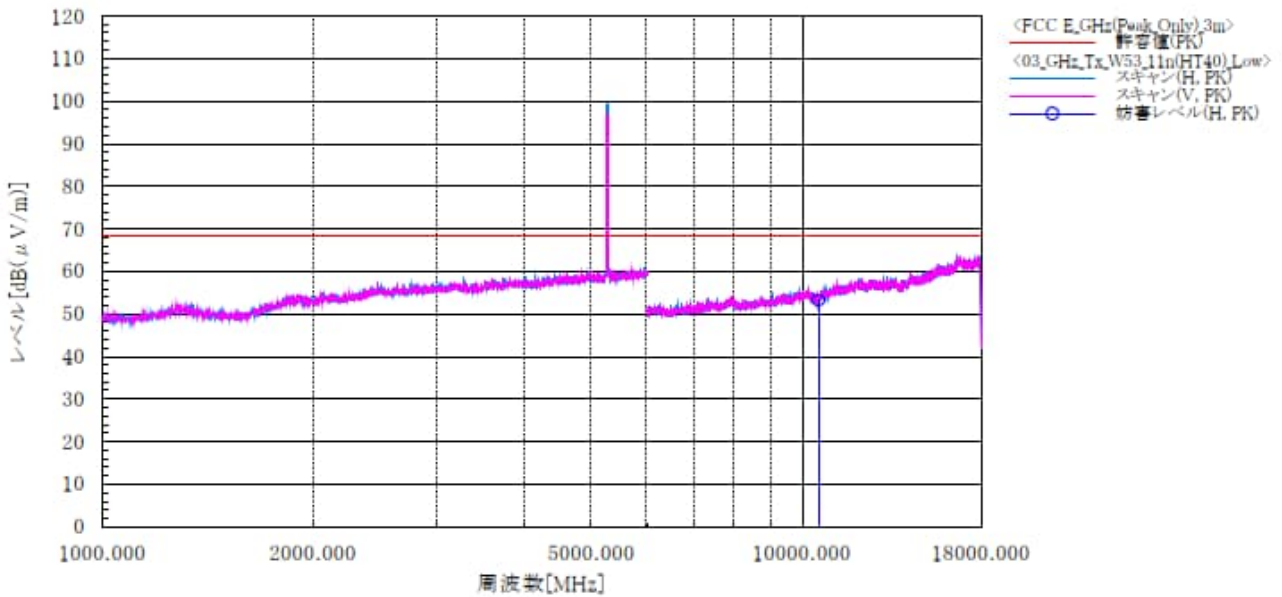
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT40)]**  
**5.3 GHz Band / Channel Low**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp,Hum,Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:54(5270MHz)
Test mode	: WLAN W53_11n(HT40)_Tx_Low	Note2	:



Final Result

No.	Frequency	Pol	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
	[MHz]		[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[deg]	
1	10540.000	H	42.1	11.2	53.3	68.2	14.9	150.0	116.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

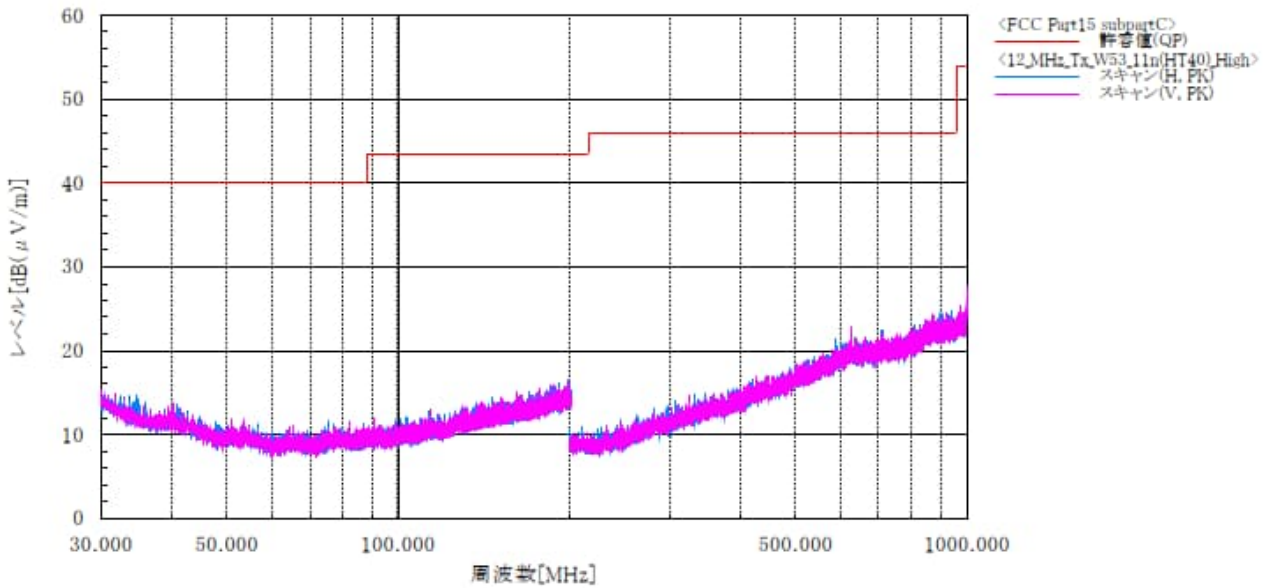


Japan

**[11n(HT40)]**  
**5.3 GHz Band / Channel High**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W53\_11n(HT40)\_Tx,ch:High

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp,Hum,Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:62 5310MHz  
 Note2 :



Final Result

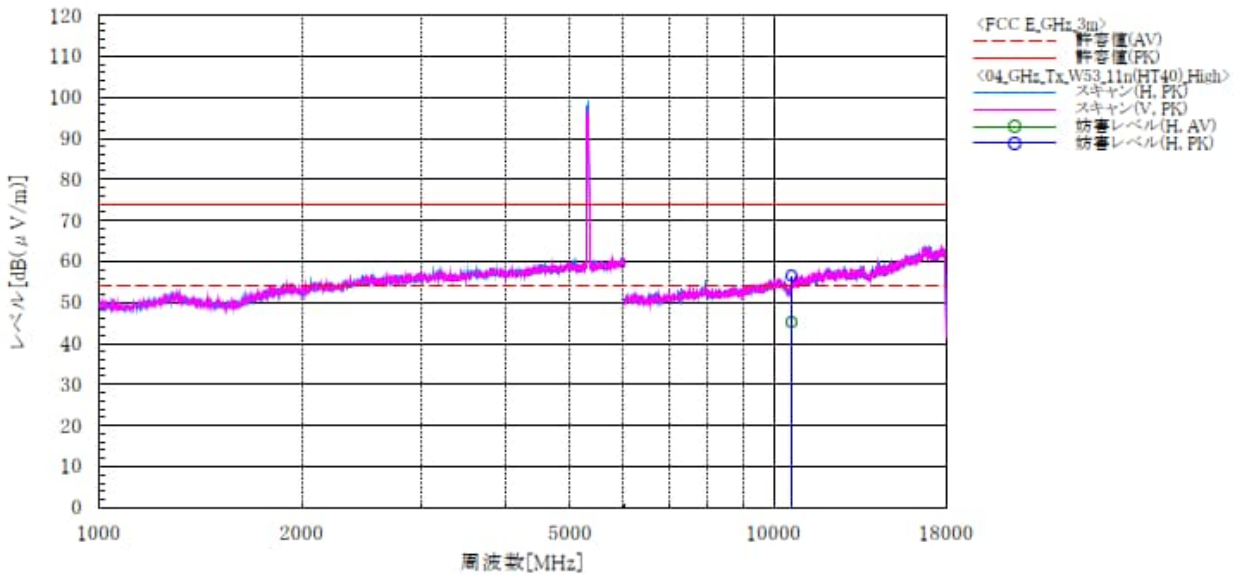
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT40)]**  
**5.3 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp,Hum,Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:62(5310MHz)
Test mode	: WLAN W53_11n(HT40)_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Rema
1	10620.000	H	33.9	45.2	11.3	45.2	56.5	54.0	74.0	8.8	17.5	147.0	118.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

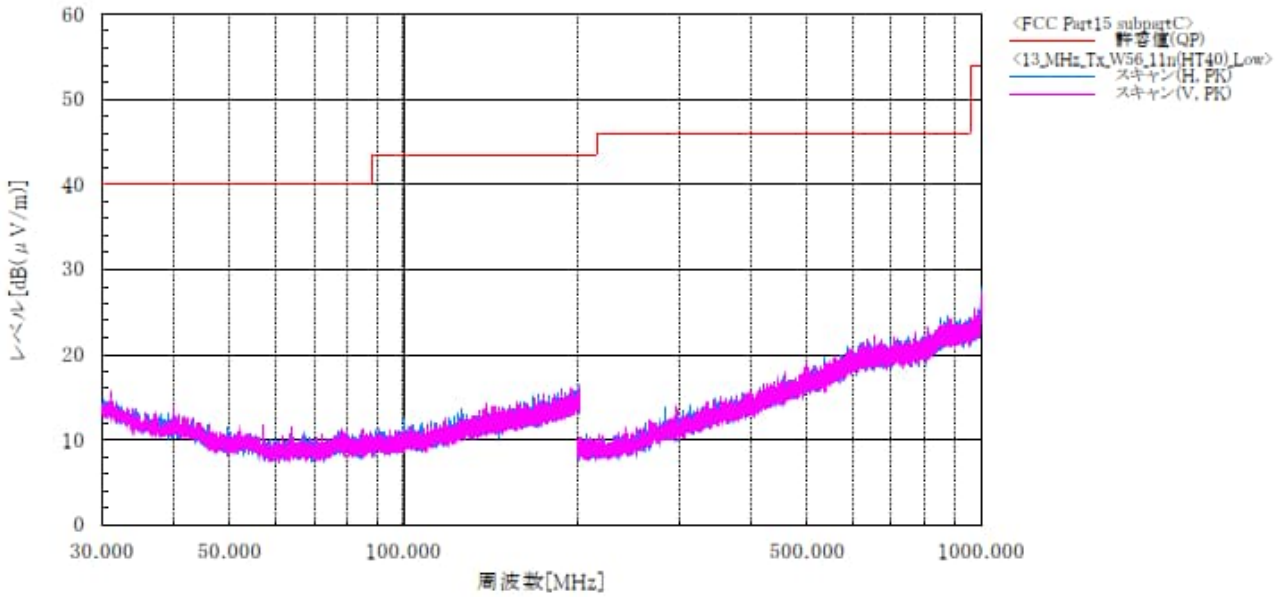


Japan

**[11n(HT40)]**  
**5.6 GHz Band / Channel Low**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W56\_11n(HT40)\_Tx\_ch:Low

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp.Hum.Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:102 5510MHz  
 Note2 :



Final Result

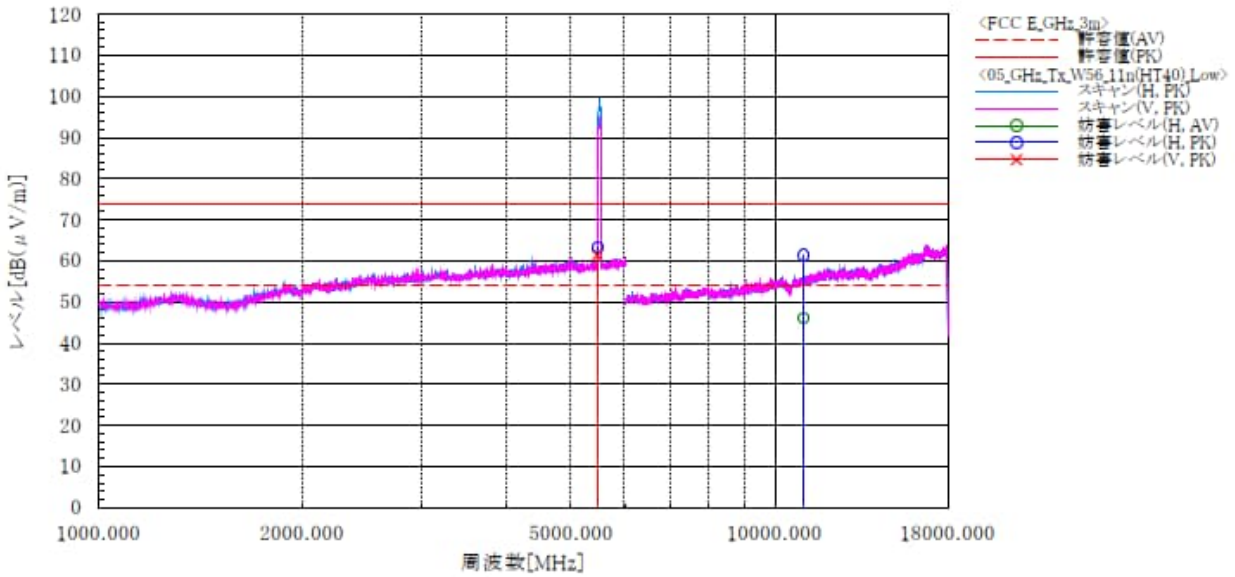
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT40)]**  
**5.6 GHz Band / Channel Low**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp,Hum,Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:102(5510MHz)
Test mode	: WLAN W56_11n(HT40)_Tx_Low	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading		c. f	Result		Limit		Margin		Height [cm]	Angle [deg]	Remarks
			AV [dB(μV)]	PK [dB(μV)]		AV [dB(μV/m)]	PK [dB(μV/m)]	AV [dB(μV/m)]	PK [dB(μV/m)]	AV [dB]	PK [dB]			
1	5464.400	H	52.0	52.0	11.4	63.4	68.2	4.8	100.0	149.0				
2	5467.700	V	49.9	49.9	11.4	61.3	68.2	6.9	106.0	78.0				
3	11020.000	H	34.3	49.5	11.8	46.1	61.3	54.0	74.0	7.9	12.7	100.0	152.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



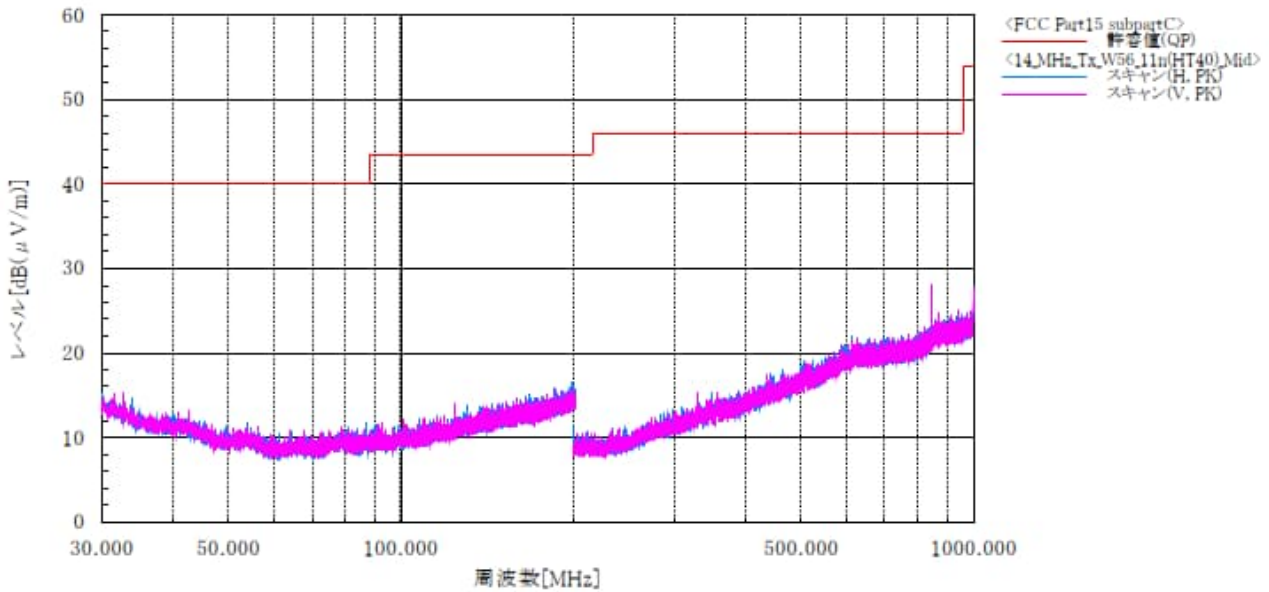


Japan

**[11n(HT40)]**  
**5.6 GHz Band / Channel Middle**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W56\_11n(HT40)\_Tx\_ch:Mid

Standard : FCC Part15 subpart E  
 Operator : K.Saito  
 Temp,Hum,Atm : 23.0 [°C] 24.0 [%]  
 Note1 : CH:110 5550MHz  
 Note2 :



Final Result

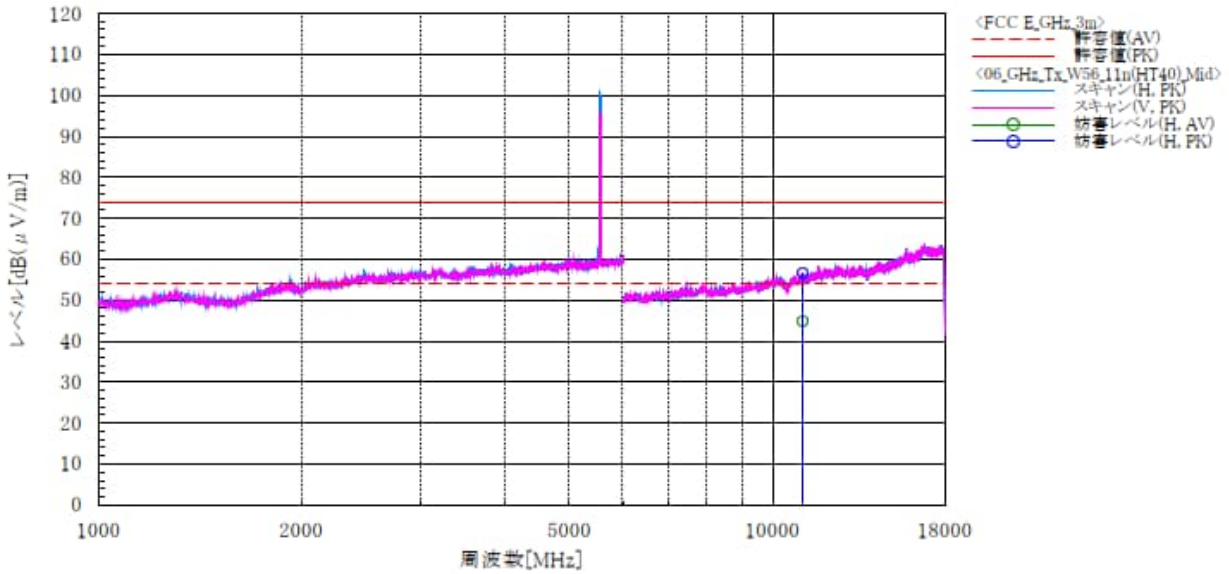
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT40)]**  
**5.6 GHz Band / Channel Middle**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp,Hum,Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:110(5550MHz)
Test mode	: WLAN W56_11n(HT40)_Tx_Mid	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [dwr]	Rema
1	11100.000	H	33.1	44.7	11.9	45.0	56.6	54.0	74.0	9.0	17.4	109.0	116.0	

Note:

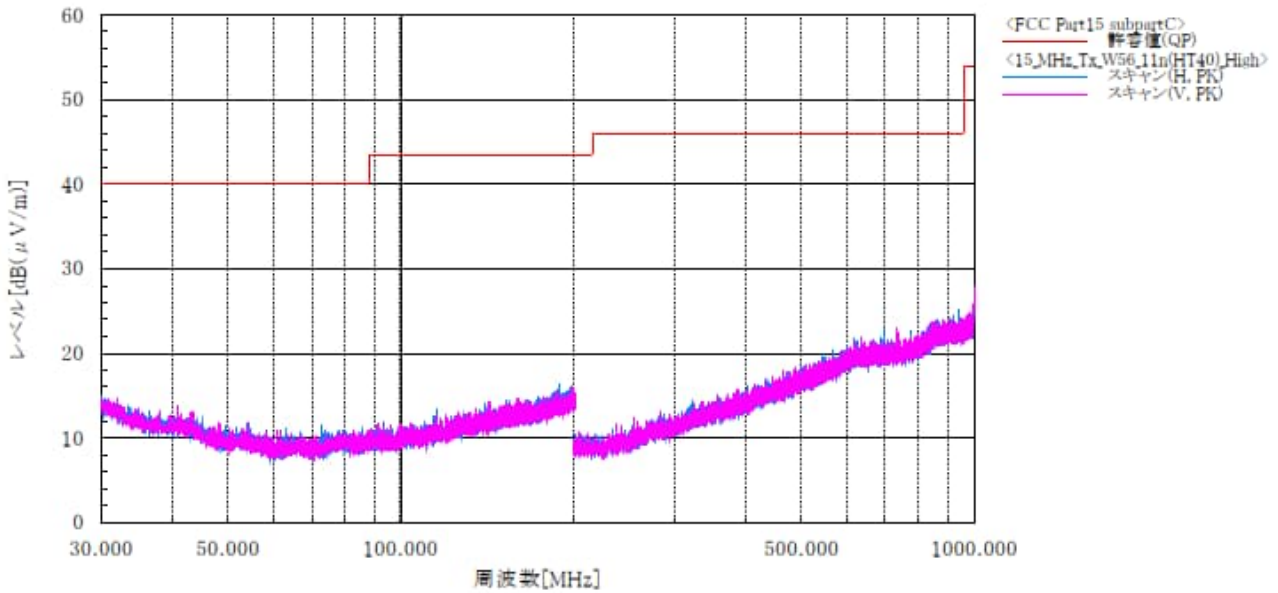
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



Japan

**[11n(HT40)]**  
**5.6 GHz Band / Channel High**  
**BELOW 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part15 subpart E
EUT	: Mobile Phone	Operator	: K.Saito
Model No.	: EB1155	Temp,Hum,Atm	: 23.0 [°C] 24.0 [%]
Serial No.	: N/A	Note1	: CH:134 5670MHz
Test mode	: 5GHz_W56_11n(HT40)_Tx,ch:High	Note2	:



Final Result

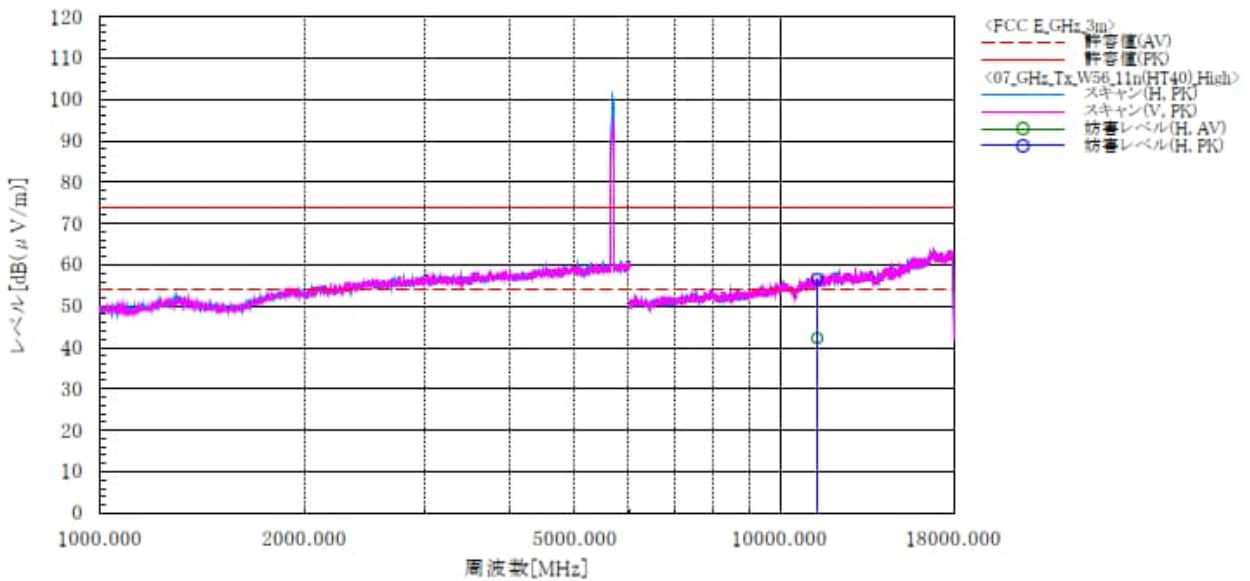
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT40)]**  
**5.6 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp,Hum,Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:134(5670MHz)
Test mode	: WLAN W56_11n(HT40)_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remarks
1	11340.000	H	30.2	44.5	12.1	42.3	56.6	54.0	74.0	11.7	17.4	100.0	118.0	

Note:

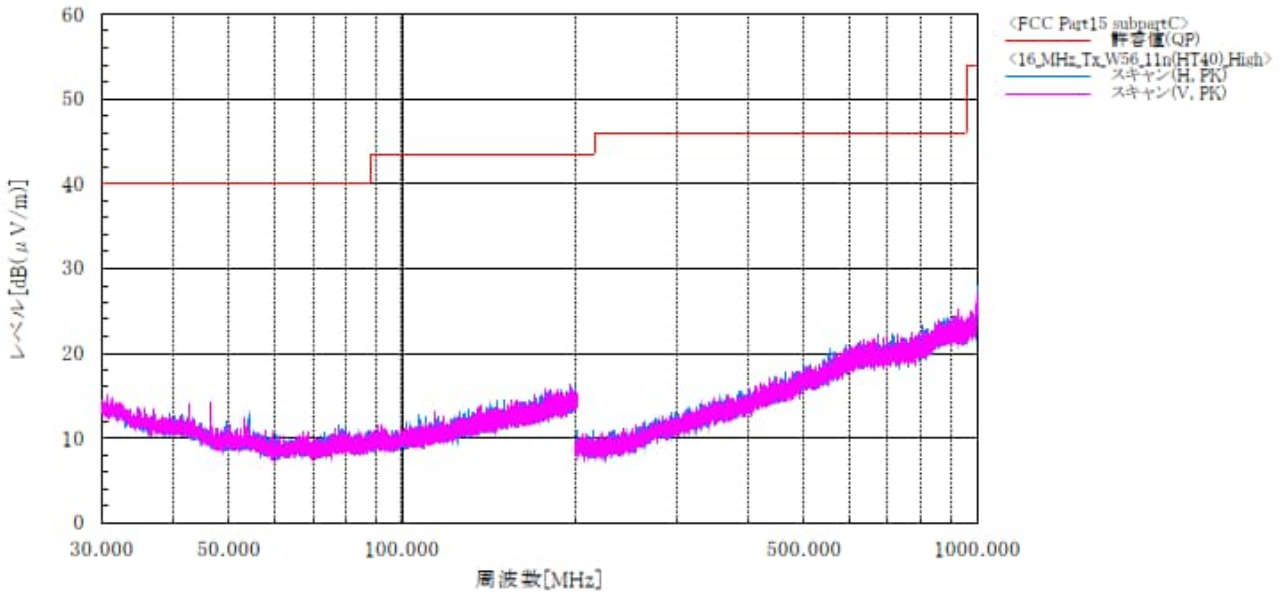
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



Japan

**[11n(HT40)]**  
**5.6 GHz Band / Channel High**  
**BELOW 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part15 subpart E
EUT	: Mobile Phone	Operator	: K.Saito
Model No.	: EB1155	Temp,Hum,Atm	: 23.0 [°C] 24.0 [%]
Serial No.	: N/A	Note1	: CH:142 5710MHz
Test mode	: 5GHz_W56_11n(HT40)_Tx,ch:High	Note2	:



Final Result

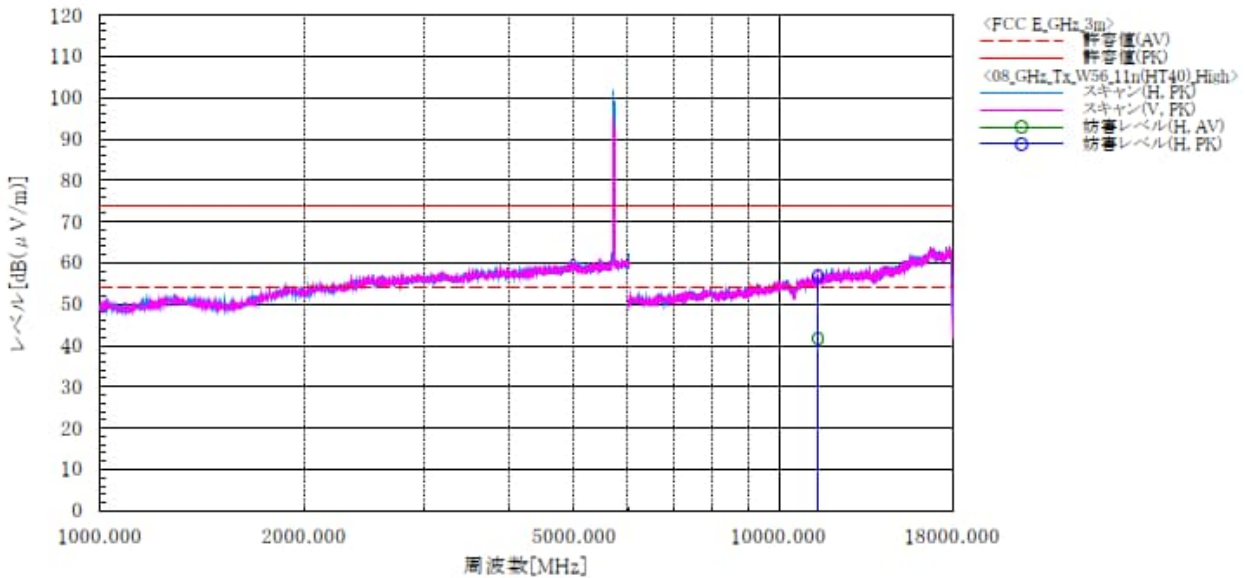
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11n(HT40)]**  
**5.6 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp,Hum,Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:142(5710MHz)
Test mode	: WLAN W56_11n(HT40)_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Remarks
1	11420.000	H	29.5	44.6	12.2	41.7	56.8	54.0	74.0	12.3	17.2	100.0	118.0	

Note:

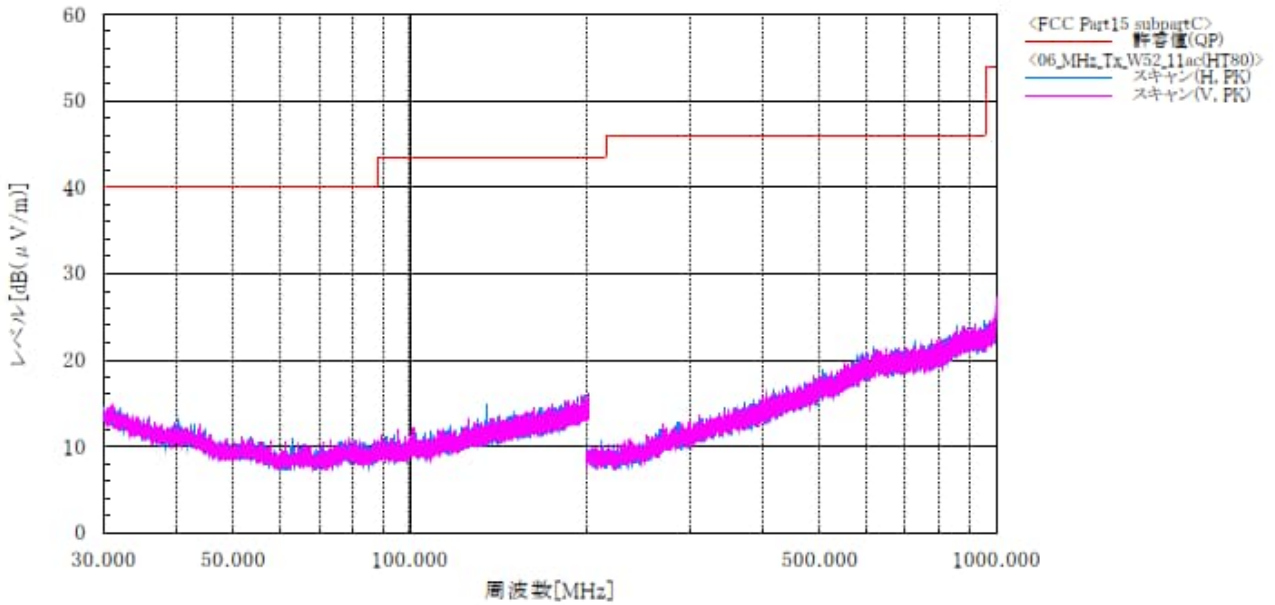
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11ac(VHT80)]**  
**5.2 GHz Band BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W52\_11ac(VHT80)\_Tx

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 22.0 [°C] 24.7 [%]  
 Note1 : CH:42 5210MHz  
 Note2 :



Final Result

Note:

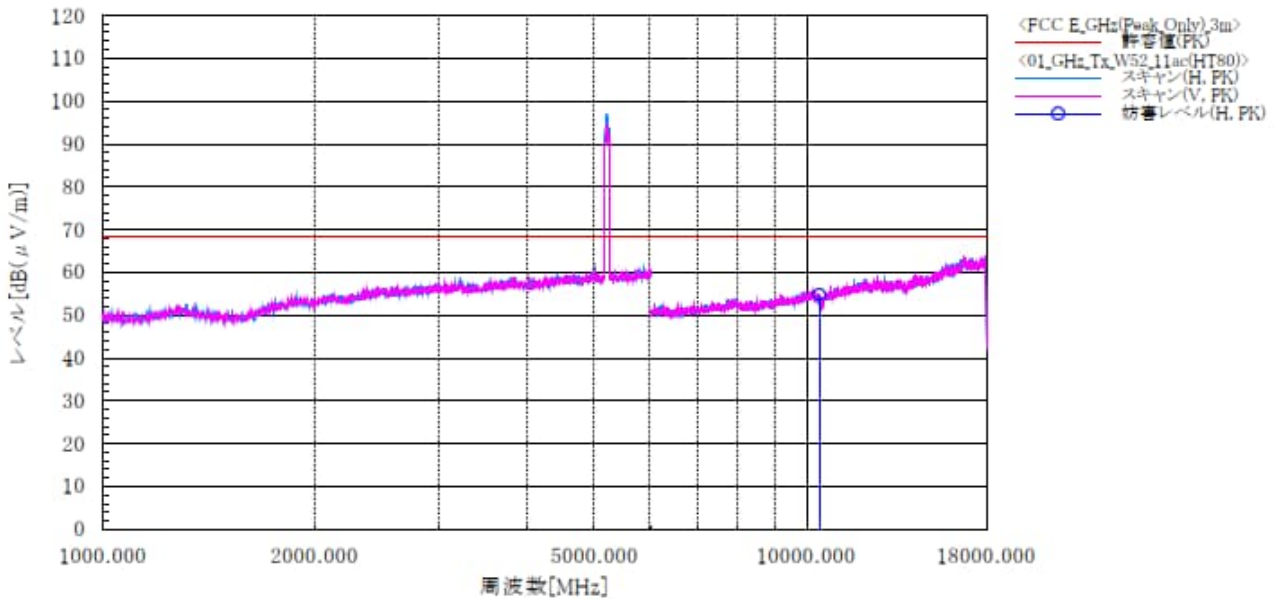
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



Japan

**[11ac(VHT80)]**  
**5.2 GHz Band**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp.Hum.Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:42(5210MHz)
Test mode	: WLAN W52_11ac(HT80)_Tx	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10420.000	H	43.8	11.1	54.9	68.2	13.3	100.0	114.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



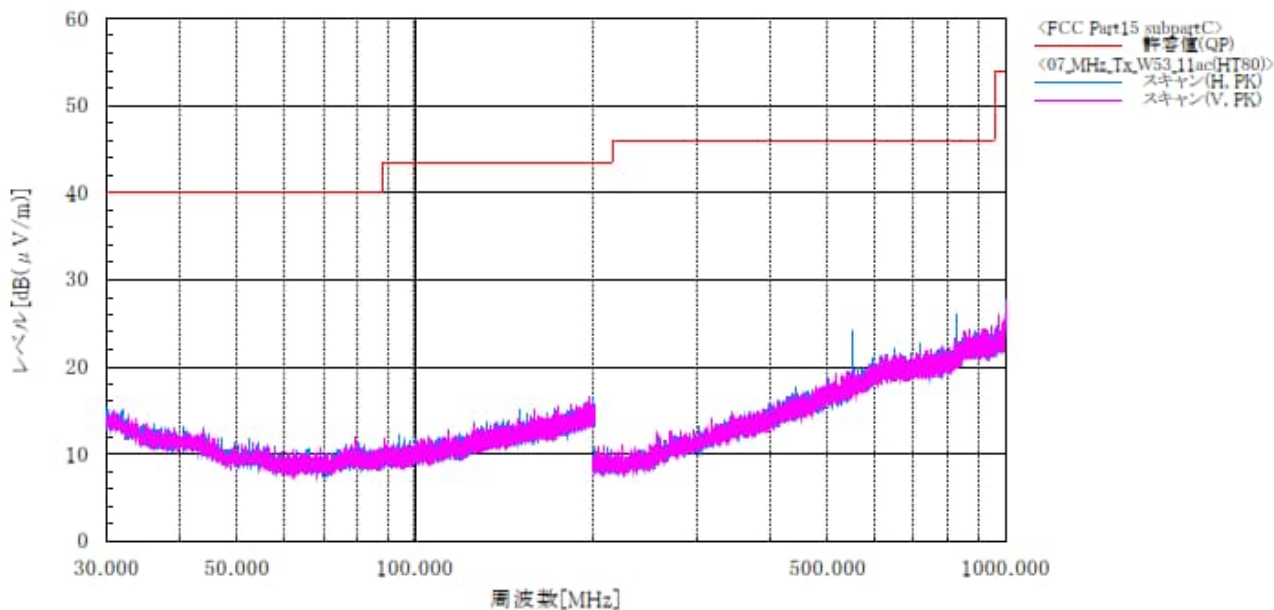


Japan

**[11ac(VHT80)]**  
**5.3 GHz Band**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W53\_11ac(VHT80)\_Tx

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp.Hum.Atm : 22.0 [°C] 24.7 [%]  
 Note1 : CH:58 5290MHz  
 Note2 :



Final Result

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

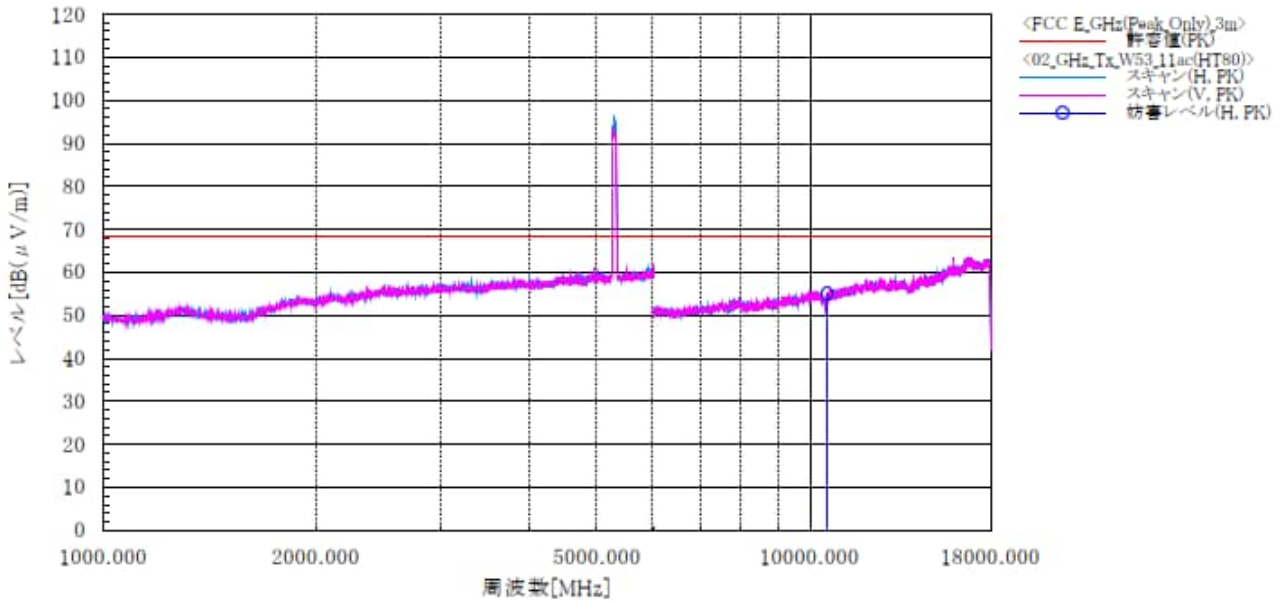


Japan

**[11ac(VHT80)]**  
**5.3 GHz Band**  
**ABOVE 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN W53\_11ac(HT80)\_Tx

Standard : FCC Part.15 subpart E  
 Operator : T.Seino  
 Temp.Hum.Atm : 21.1 [°C], 23.0 [%]  
 Note1 : Ch:58(5290MHz)  
 Note2 :



Final Result

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result PK [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin PK [dB]	Height [cm]	Angle [deg]	Remark
1	10580.000	H	43.9	11.2	55.1	68.2	13.1	100.0	151.0	

Note:

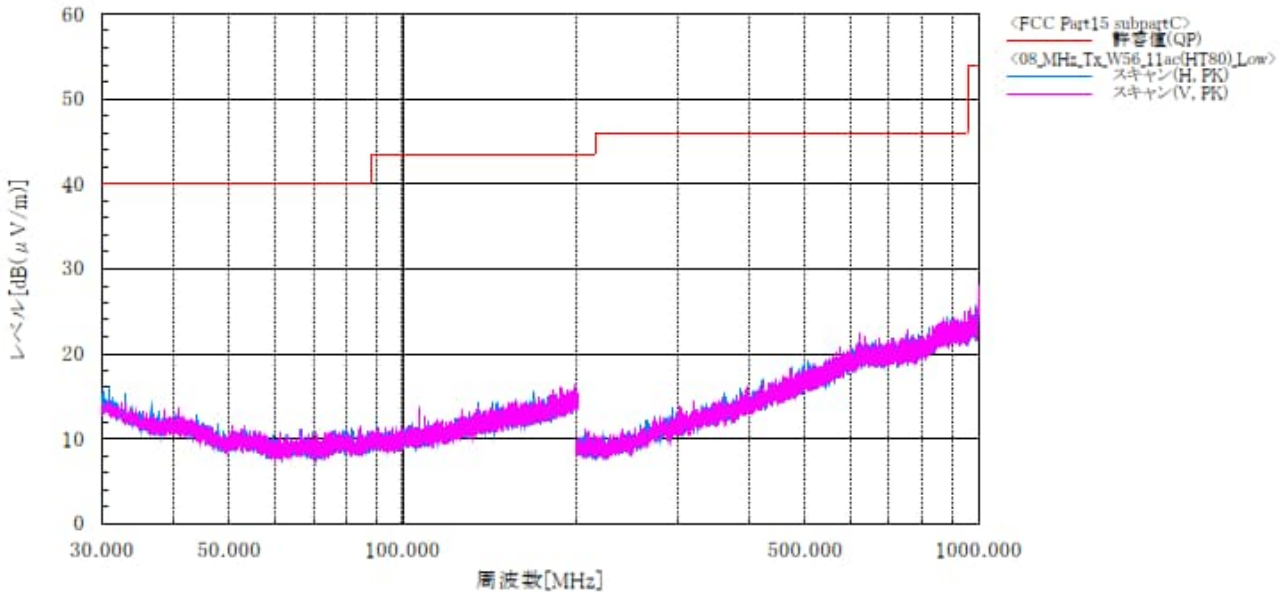
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**[11ac(VHT80)]**  
**5.6 GHz Band / Channel Low**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W56\_11ac(VHT80)\_Tx\_Low

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 22.0 [°C] 24.7 [%]  
 Note1 : CH:106 5530MHz  
 Note2 :



Final Result

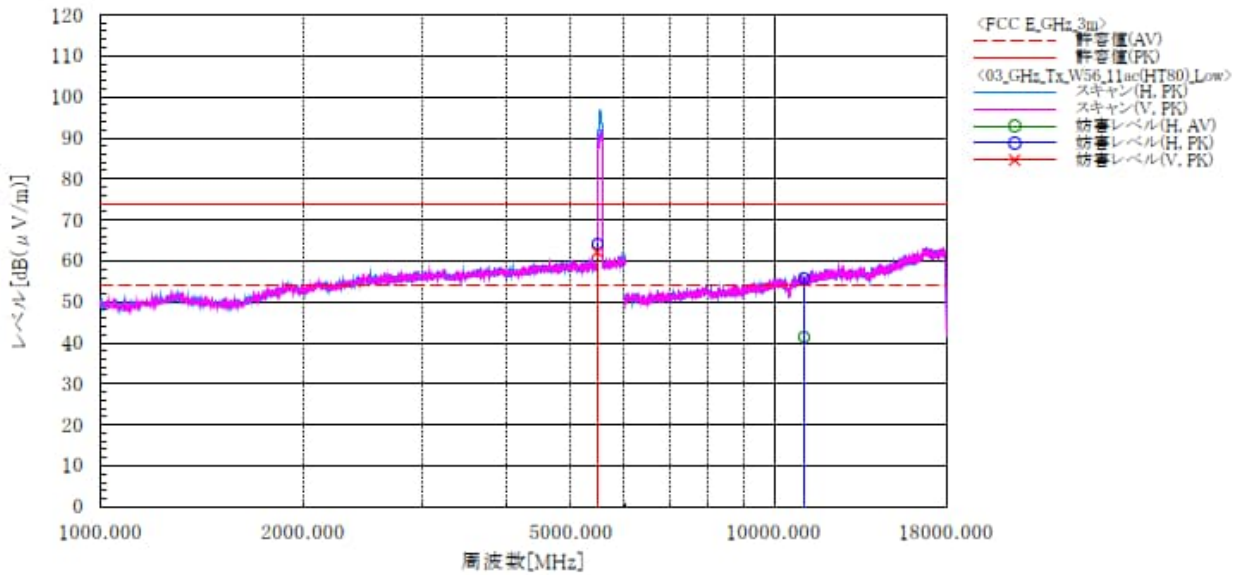
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11ac(VHT80)]**  
**5.6 GHz Band / Channel Low**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp.Hum.Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:106(5530MHz)
Test mode	: WLAN W56_11ac(HT80)_Tx_Low	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Rema
1	5467.200	H	52.7	52.7	11.4	64.1	64.1	68.2	68.2	4.1	4.1	100.0	150.0	
2	5467.200	V	50.7	50.7	11.4	62.1	62.1	68.2	68.2	6.1	6.1	100.0	79.0	
3	11060.000	H	29.6	44.1	11.8	41.4	55.9	54.0	74.0	12.6	18.1	100.0	150.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

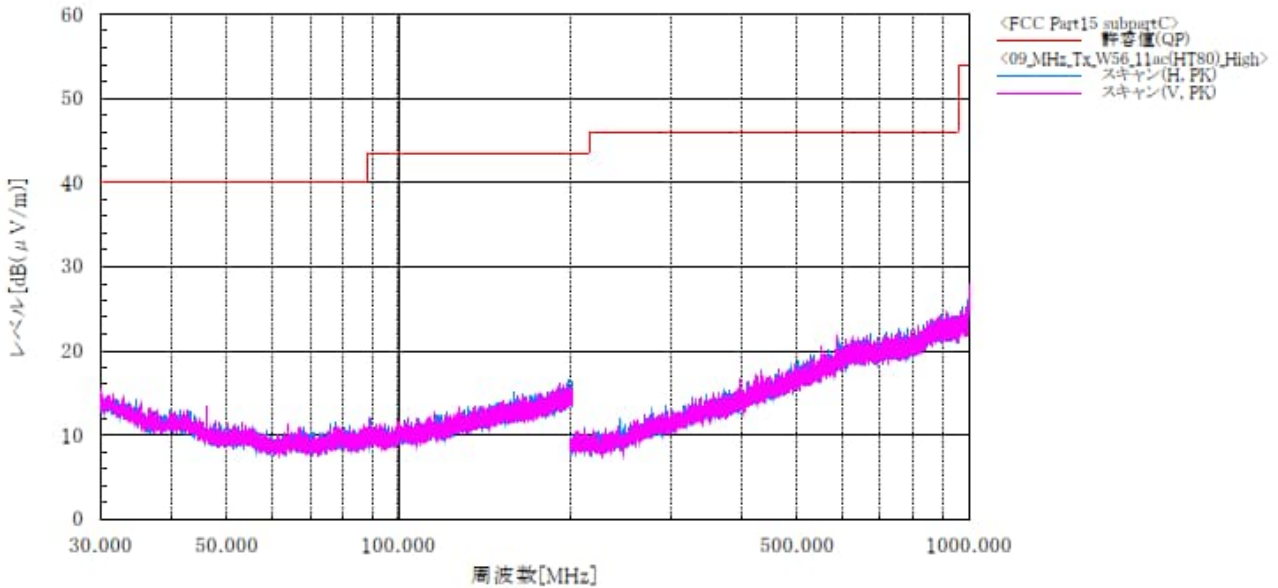


Japan

**[11ac(VHT80)]**  
**5.6 GHz Band / Channel High**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W56\_11ac(VHT80)\_Tx\_High

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 22.0 [°C] 24.7 [%]  
 Note1 : CH:122\_5610MHz  
 Note2 :



Final Result

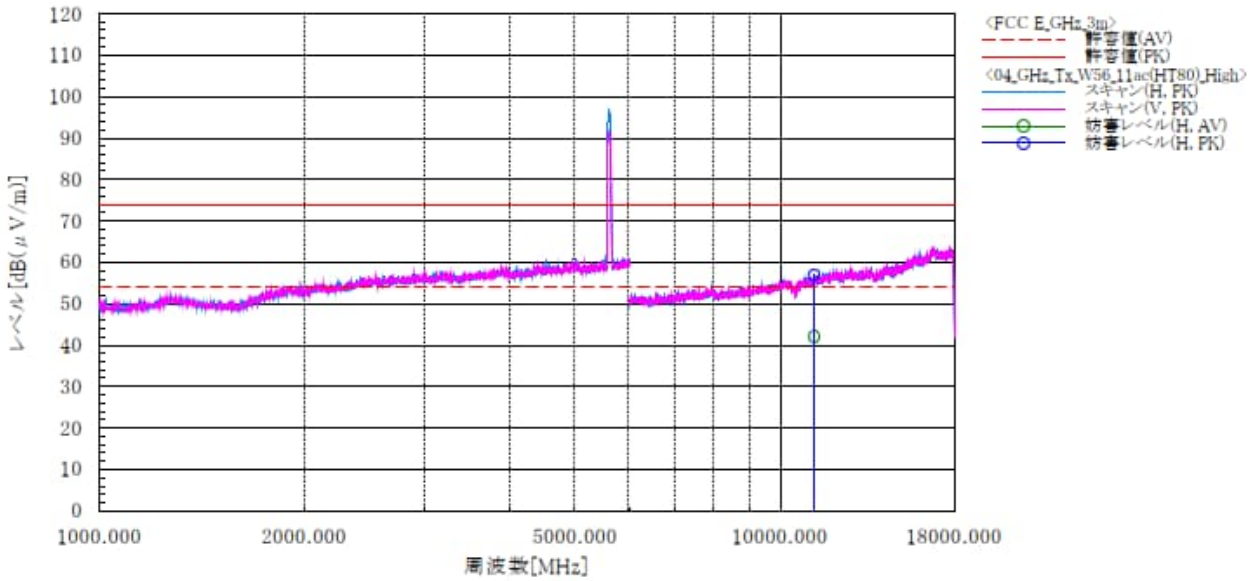
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11ac(VHT80)]**  
**5.6 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp.Hum.Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:122(5610MHz)
Test mode	: WLAN W56_11ac(HT80)_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Rema
1	11220.000	H	30.2	45.1	11.9	42.1	57.0	54.0	74.0	11.9	17.0	100.0	148.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

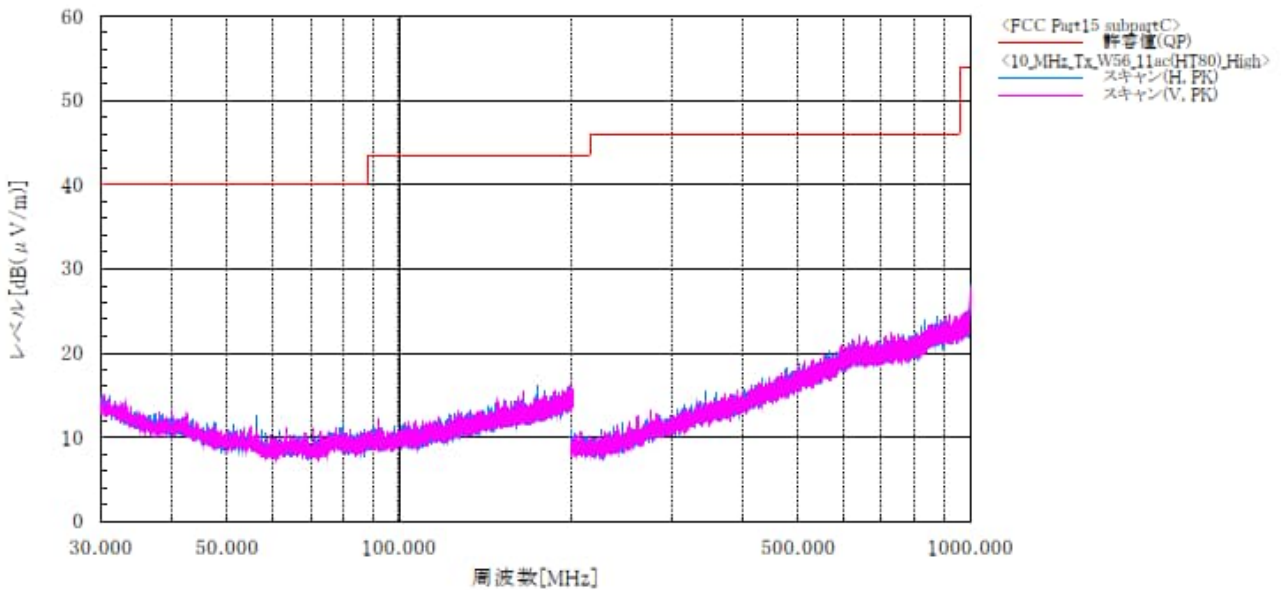


Japan

**[11ac(VHT80)]**  
**5.6 GHz Band / Channel High**  
**BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W56\_11ac(VHT80)\_Tx\_High

Standard : FCC Part15 subpartC  
 Operator : T.Seino  
 Temp,Hum,Atm : 22.2 [°C] 24.4 [%]  
 Note1 : CH:138\_5690MHz  
 Note2 :



Final Result

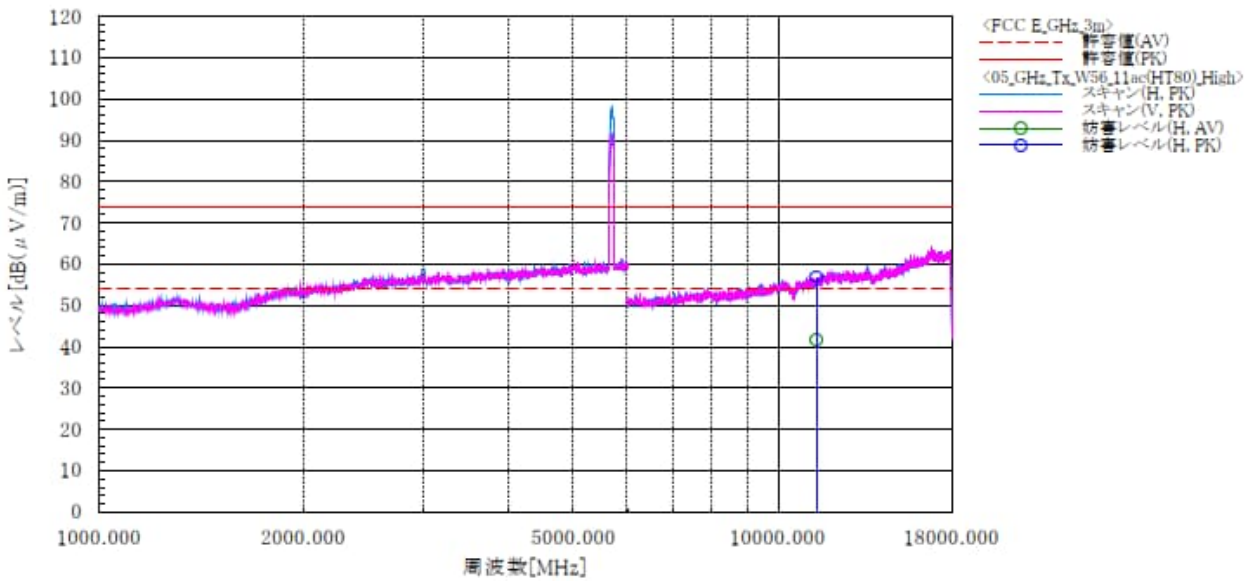
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**[11ac(VHT80)]**  
**5.6 GHz Band / Channel High**  
**ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp,Hum,Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:138(5690MHz)
Test mode	: WLAN W56_11ac(HT80)_Tx_High	Note2	:



Final Result

No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c. f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]	Rema
1	11380.000	H	29.5	44.7	12.2	41.7	56.9	54.0	74.0	12.3	17.1	100.0	178.0	

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.





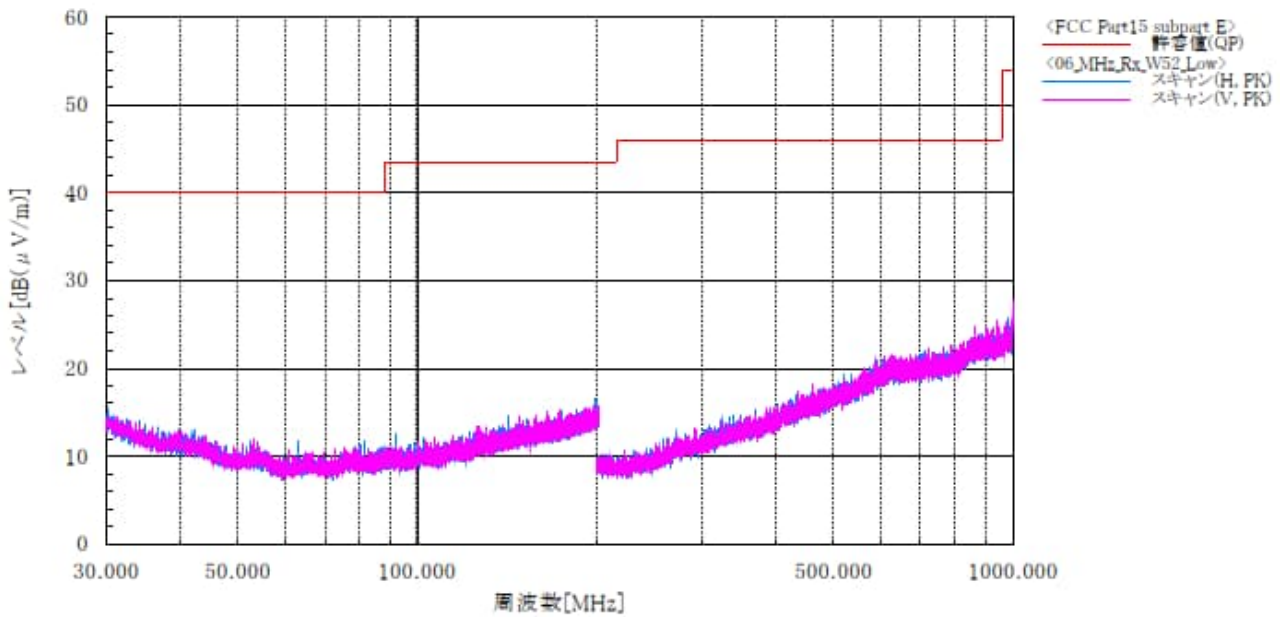
Japan

**Receive mode**

**5.2 GHz Band / Channel Low  
BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W52\_Rx\_Low

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 22.2 [°C] 24.4 [%]  
 Note1 : CH:36\_5180MHz  
 Note2 :



Final Result

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

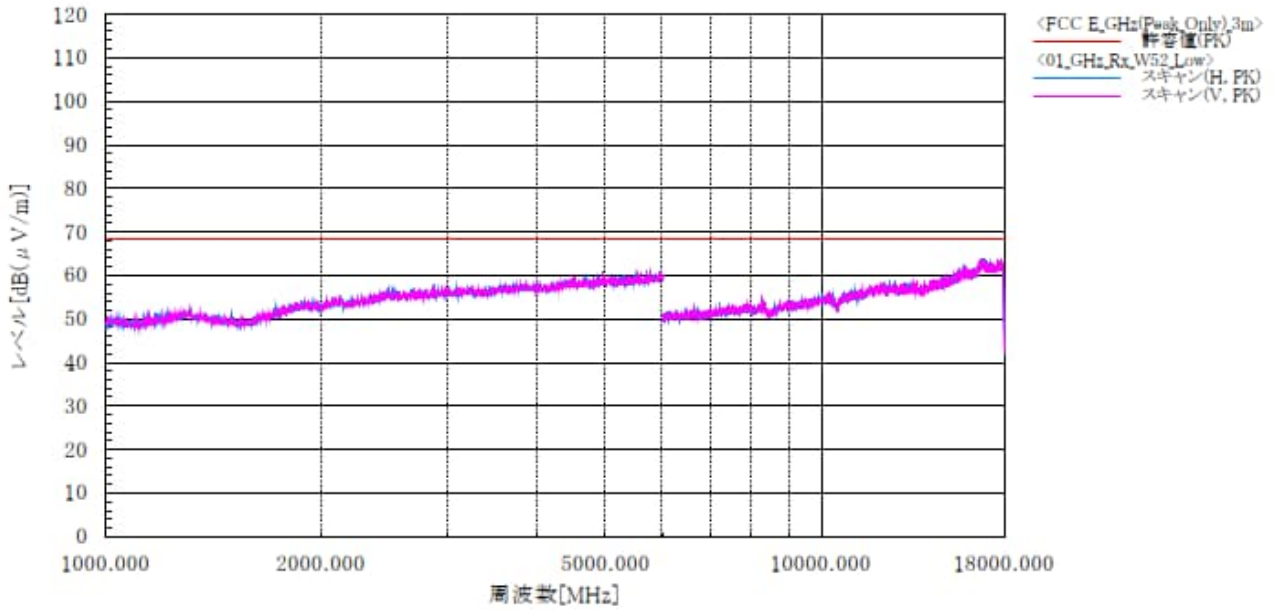


Japan

**5.2 GHz Band / Channel Low  
ABOVE 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN W52\_11a\_Rx\_Low

Standard : FCC Part.15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 21.1 [°C], 23.0 [%]  
 Note1 : Ch:36(5180MHz)  
 Note2 :



Final Result

Note:

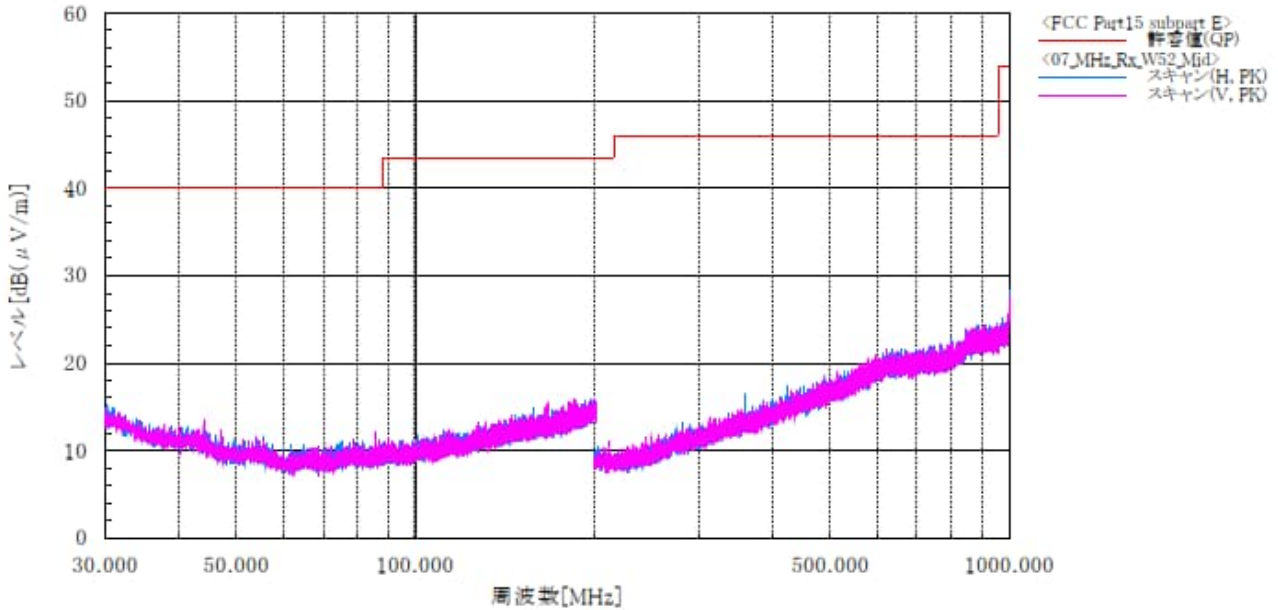
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



**5.2 GHz Band / Channel Mid  
BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W52\_Rx\_Mid

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 22.2 [°C] 24.4 [%]  
 Note1 : CH:40\_5200MHz  
 Note2 :



Final Result

Note:

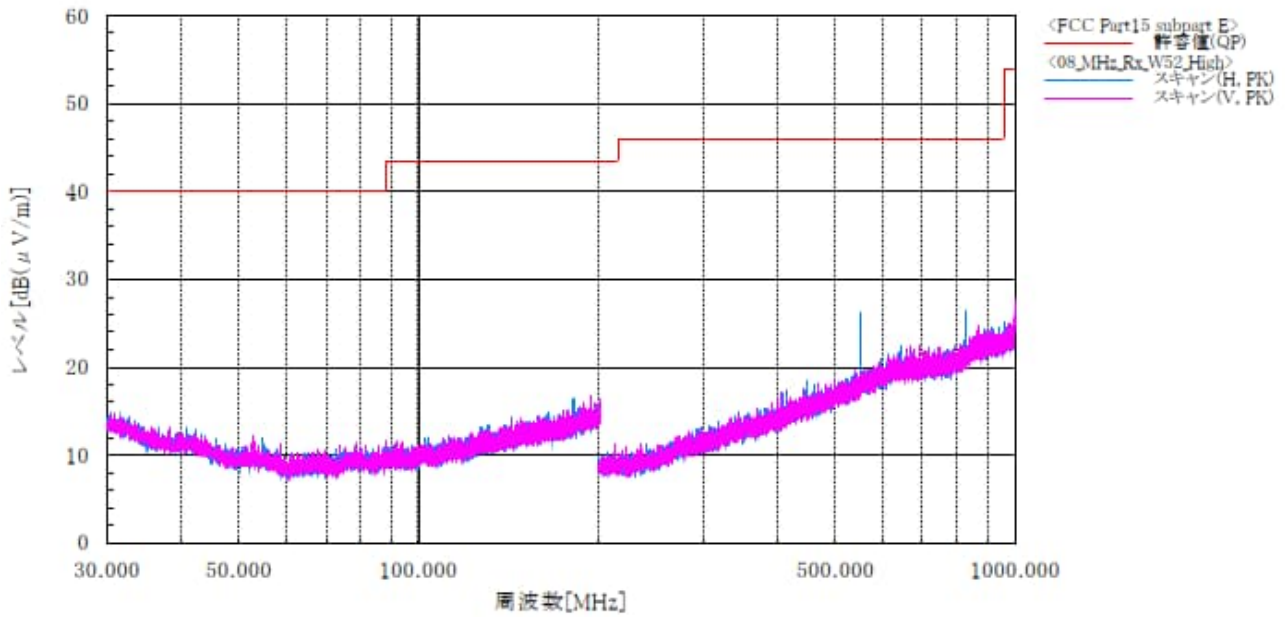
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.2 GHz Band / Channel High  
BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W52\_Rx\_High

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 22.2 [°C] 24.4 [%]  
 Note1 : CH:48\_5240MHz  
 Note2 :



Final Result

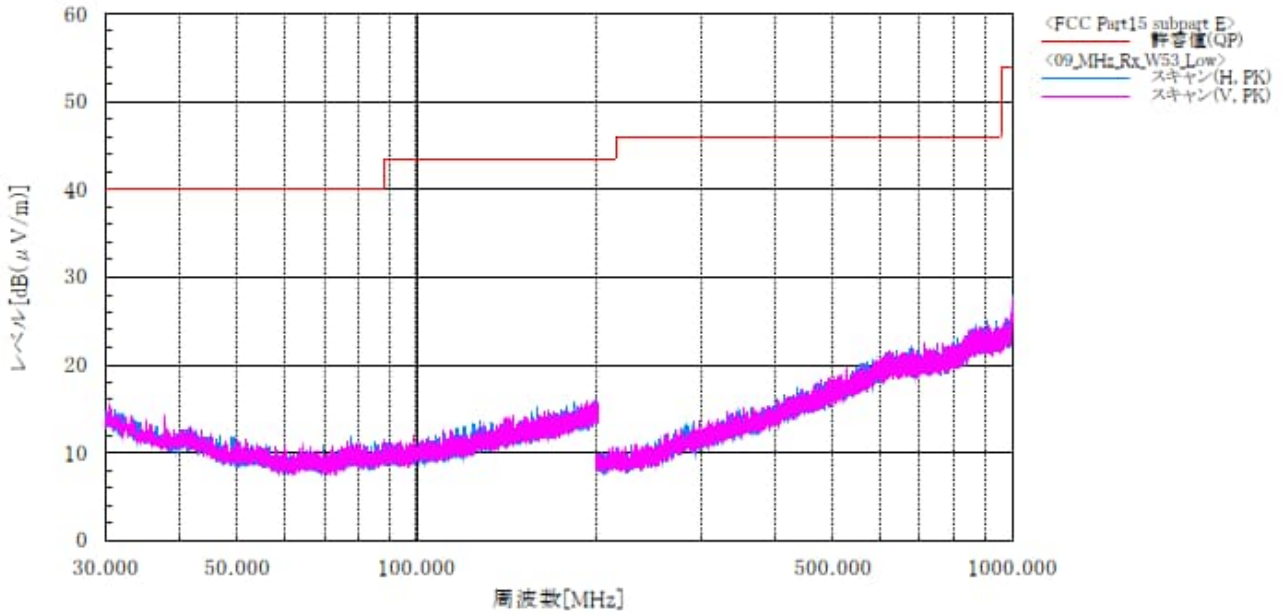
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

### 5.3 GHz Band / Channel Low BELOW 1GHz

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W53\_Rx\_Low

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 22.2 [°C] 24.4 [%]  
 Note1 : CH:52\_5260MHz  
 Note2 :



Final Result

Note:

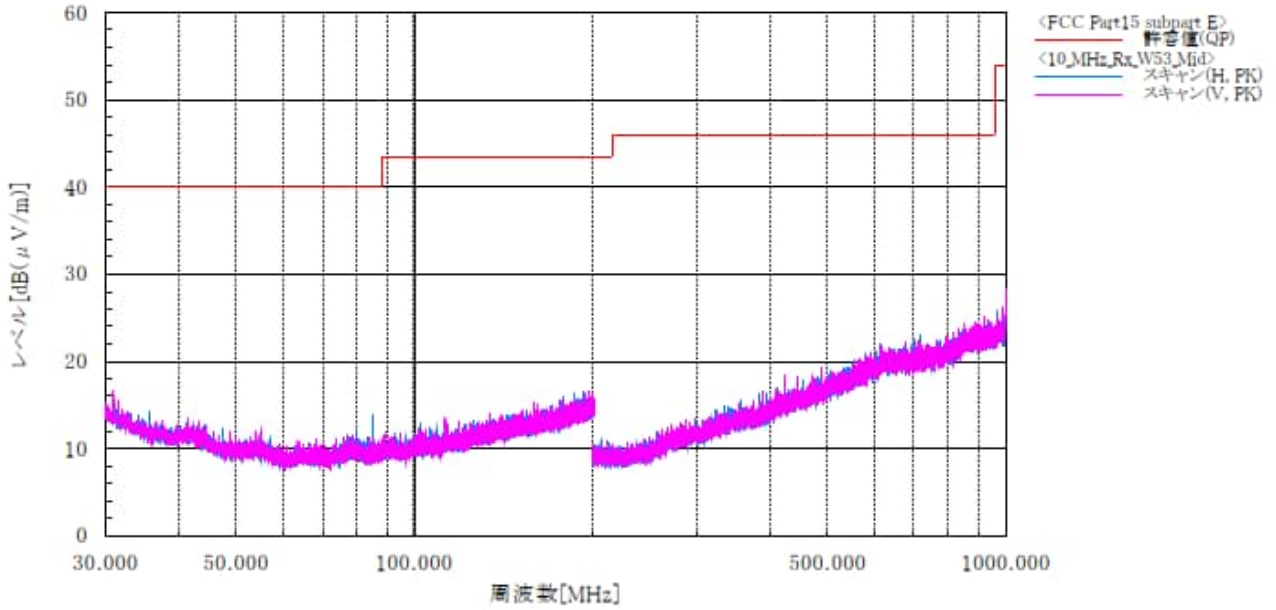
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.3 GHz Band / Channel Mid  
BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W53\_Rx\_Mid

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 22.2 [°C] 24.4 [%]  
 Note1 : CH:56\_5280MHz  
 Note2 :



Final Result

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

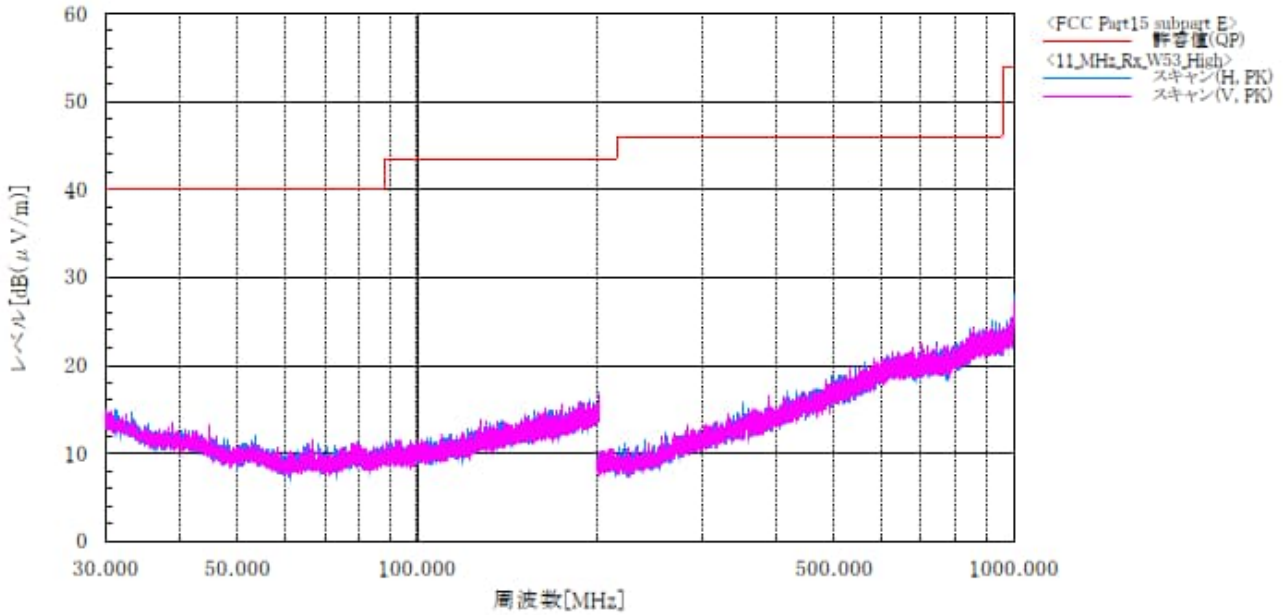


Japan

**5.3 GHz Band / Channel High  
BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W53\_Rx\_High

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 22.2 [°C] 24.4 [%]  
 Note1 : CH:64\_5320MHz  
 Note2 :



Final Result

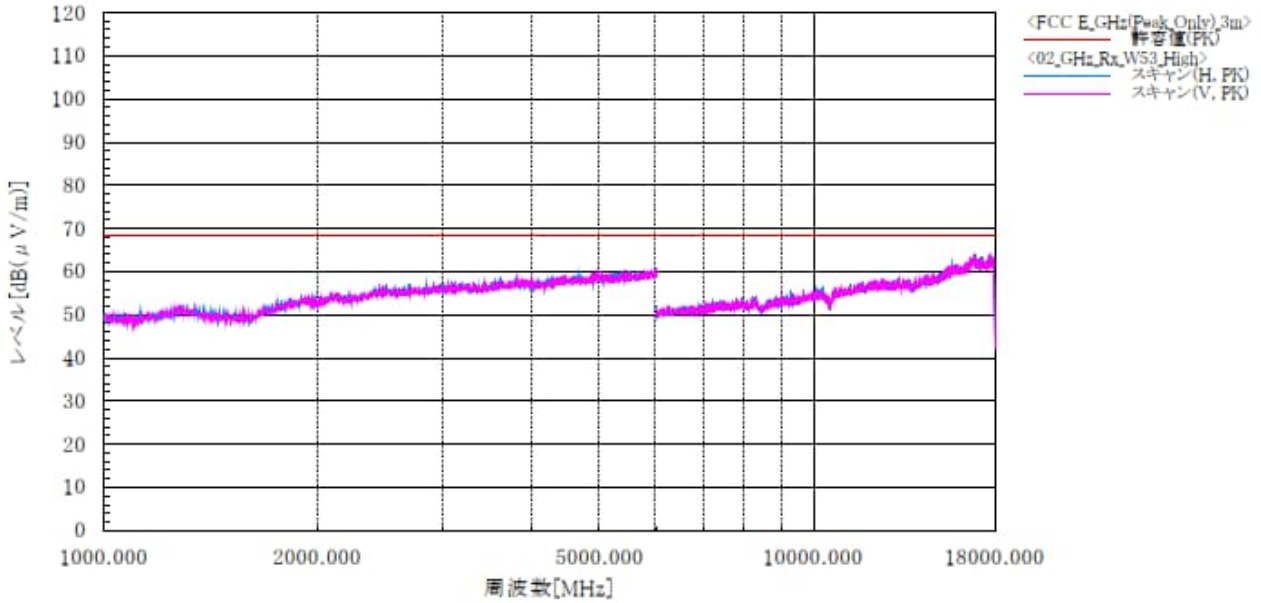
Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.3 GHz Band / Channel High  
ABOVE 1GHz**

Company name	: KYOCERA Corporation	Standard	: FCC Part.15 subpart E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1155	Temp.Hum.Atm	: 21.1 [°C], 23.0 [%]
Serial No.	: N/A	Note1	: Ch:64(5320MHz)
Test mode	: WLAN W53_11a_Rx_High	Note2	:



Final Result

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

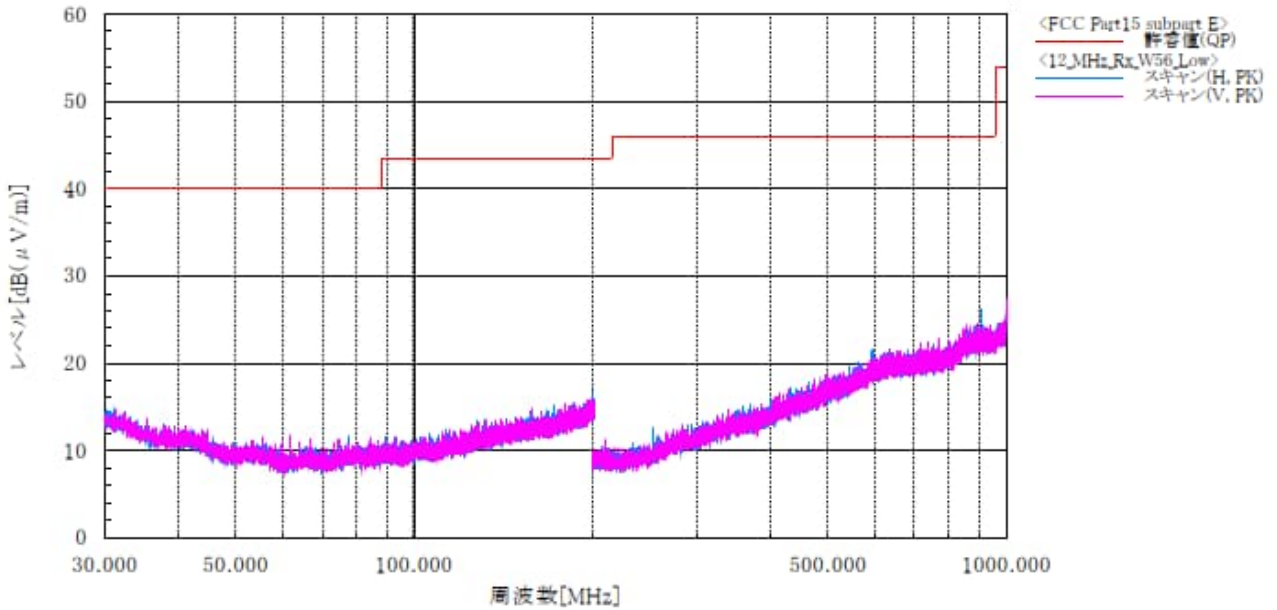




**5.6 GHz Band / Channel Low  
BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W56\_Rx\_Low

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp.Hum.Atm : 22.2 [°C] 24.4 [%]  
 Note1 : CH:100\_5500MHz  
 Note2 :



Final Result

Note:

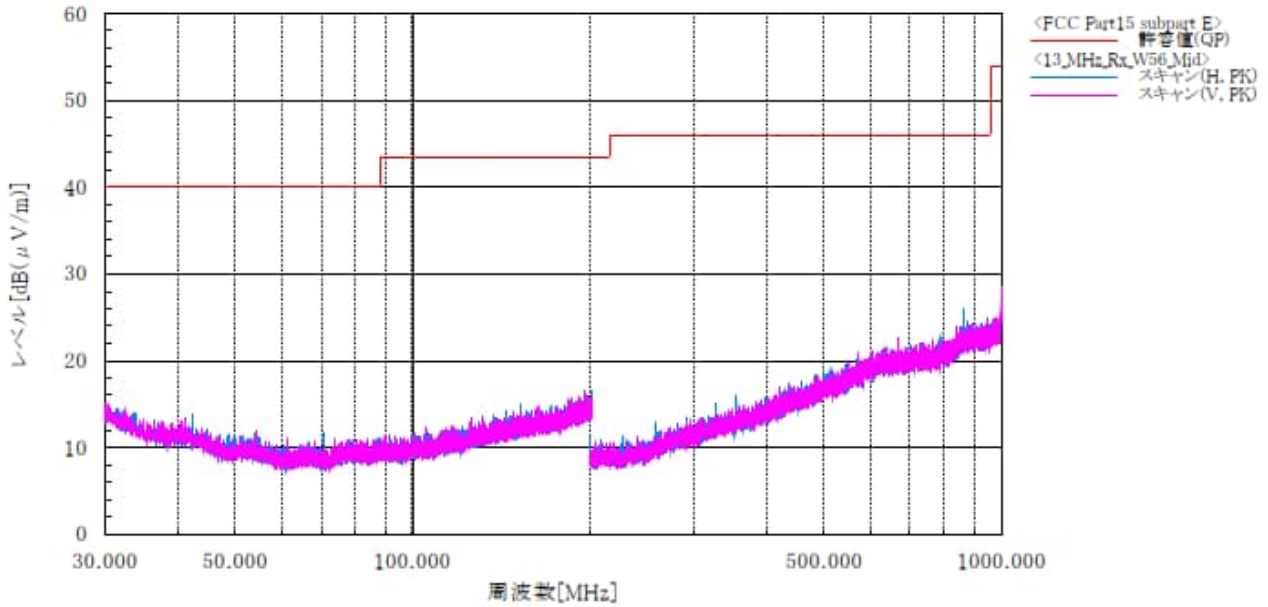
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.6 GHz Band / Channel Mid  
BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W56\_Rx\_Mid

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp,Hum,Atm : 22.2 [°C] 24.4 [%]  
 Note1 : CH:116,5580MHz  
 Note2 :



Final Result

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

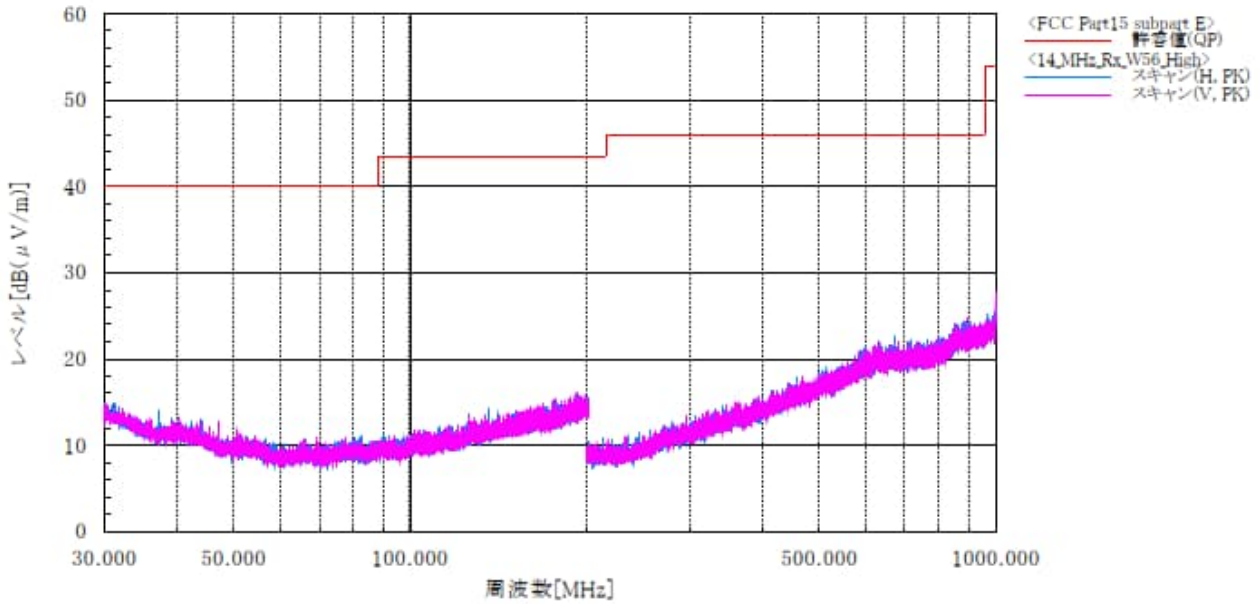


Japan

**5.6 GHz Band / Channel High  
BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W56\_Rx\_High

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp.Hum.Atm : 22.2 [°C] 24.4 [%]  
 Note1 : CH:140\_5700MHz  
 Note2 :



Final Result

Note:

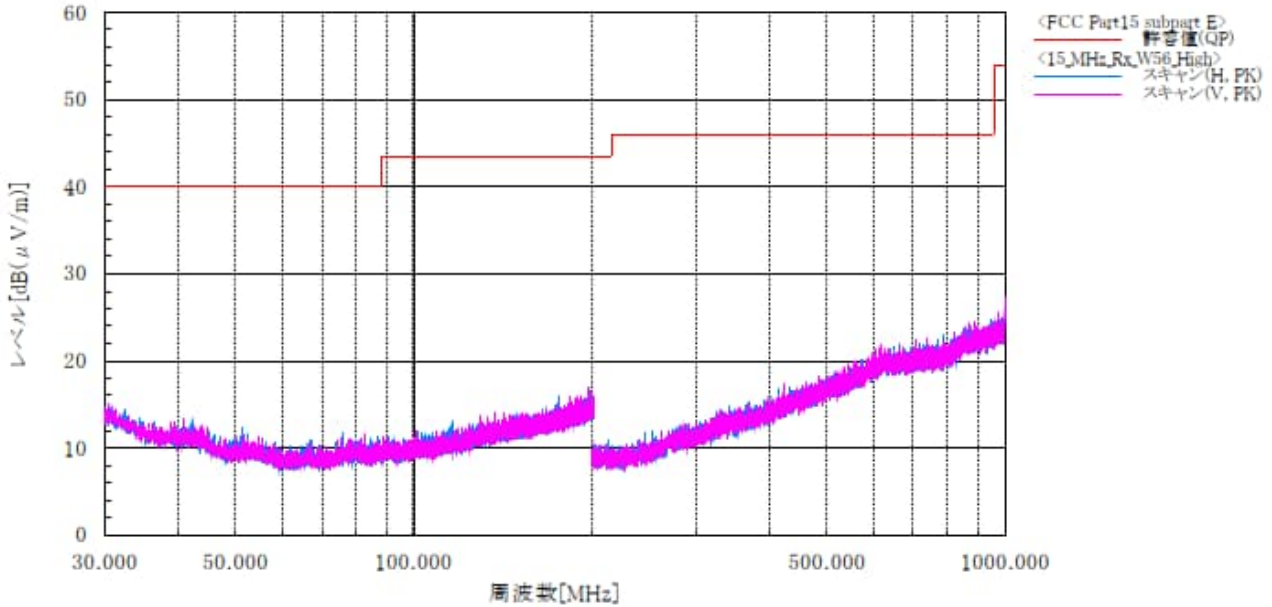
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



**5.6 GHz Band / Channel High  
BELOW 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : 5GHz\_W56\_Rx\_High

Standard : FCC Part15 subpart E  
 Operator : T.Seino  
 Temp.Hum.Atm : 22.2 [°C] 24.4 [%]  
 Note1 : CH:144\_5720MHz  
 Note2 :



Final Result

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

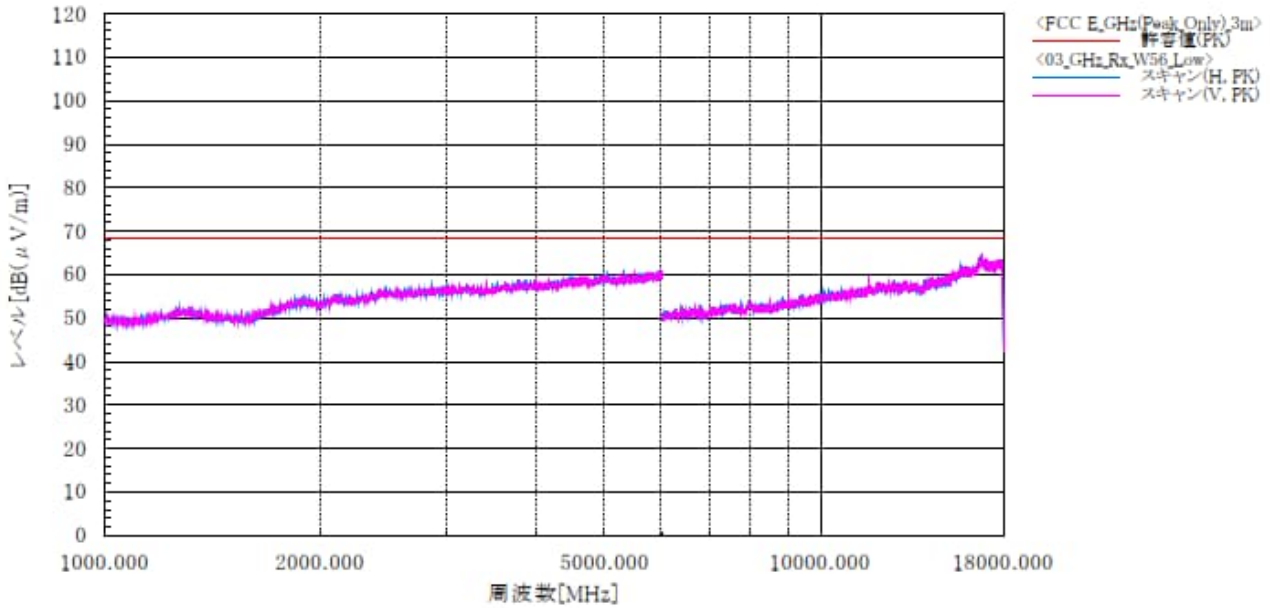


Japan

**5.6 GHz Band / Channel Low  
ABOVE 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_W56\_11a\_Rx\_Low

Standard : FCC Part.15 subpart E  
 Operator : T.Watanabe  
 Temp.Hum.Atm : 22.6 [°C], 30.5 [%]  
 Note1 : Ch:100(5500MHz)  
 Note2 :



Final Result

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

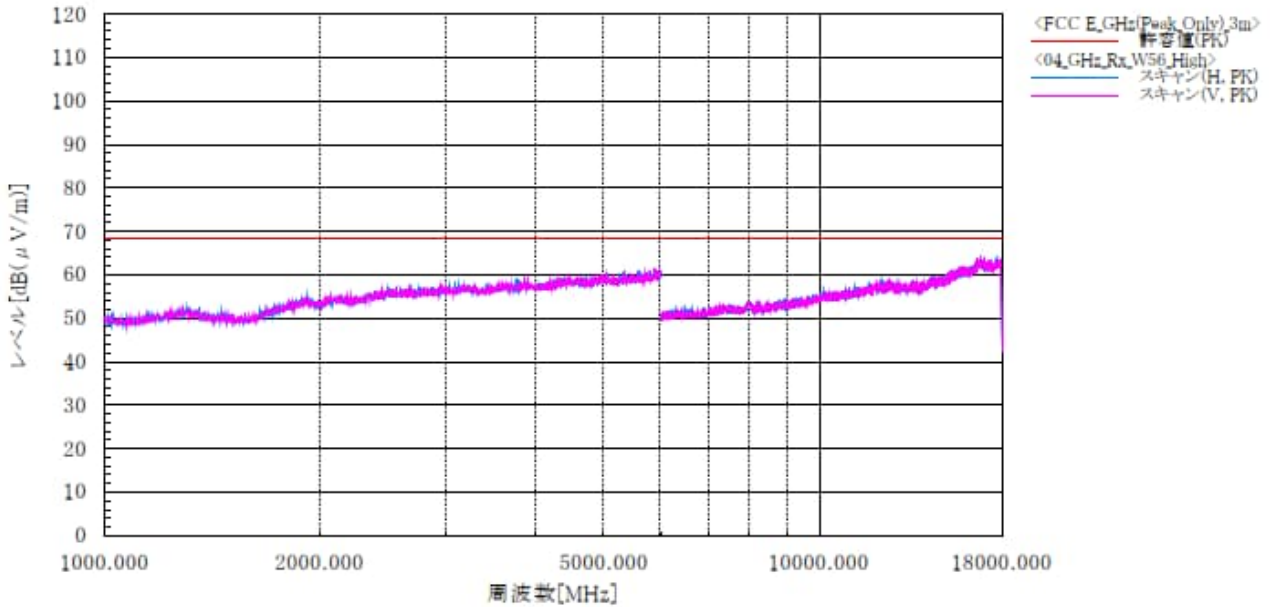


Japan

**5.6 GHz Band / Channel High  
ABOVE 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_W56\_11a\_Rx\_High

Standard : FCC Part.15 subpart E  
 Operator : T.Watanabe  
 Temp.Hum.Atm : 22.6 [° C], 30.5 [%]  
 Note1 : Ch:140(5700MHz)  
 Note2 :



Final Result

Note:

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.

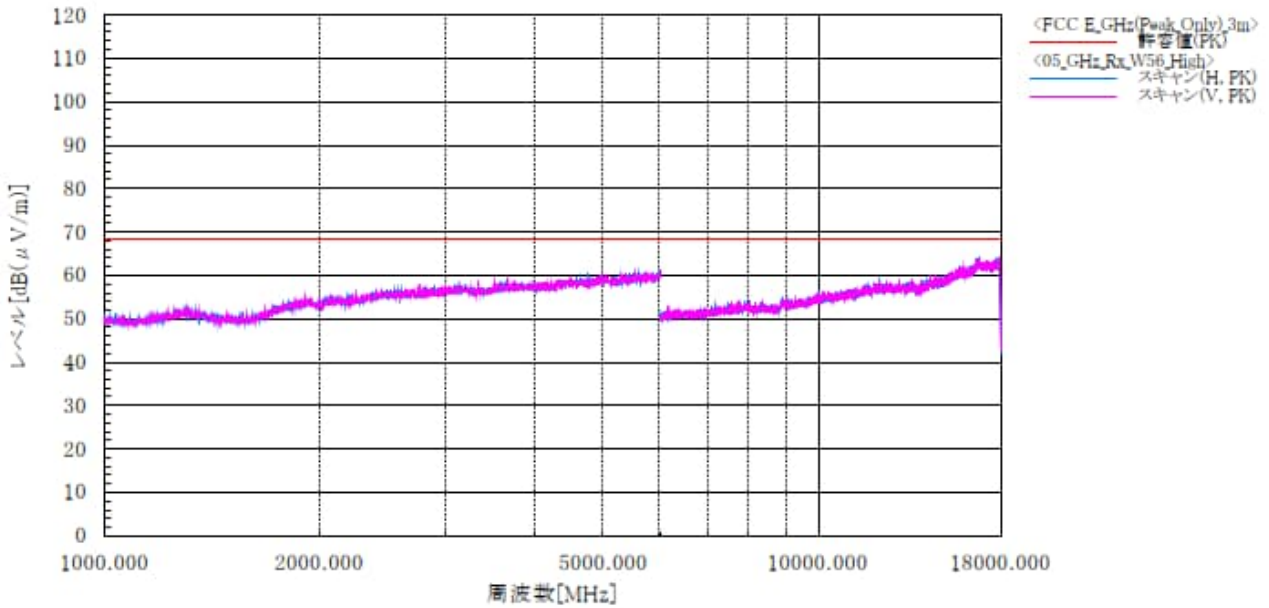


Japan

**5.6 GHz Band / Channel High  
ABOVE 1GHz**

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN\_W56\_11a\_Rx\_High

Standard : FCC Part.15 subpart E  
 Operator : T.Watanabe  
 Temp,Hum,Atm : 22.6 [°C], 30.5 [%]  
 Note1 : Ch:144(5720MHz)  
 Note2 :



**Final Result**

**Note:**

1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable - Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.

## 4.5 Frequency Stability

### 4.5.1 Measurement procedure

#### [FCC 15.407(g)]

The EUT was placed of an inside of a constant temperature chamber as the temperature in the chamber was varied between  $-30^{\circ}\text{C}$  and  $+60^{\circ}\text{C}$ . The temperature was incremented by  $10^{\circ}\text{C}$  intervals and the unit was allowed to stabilize at each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channels center frequency was recorded.

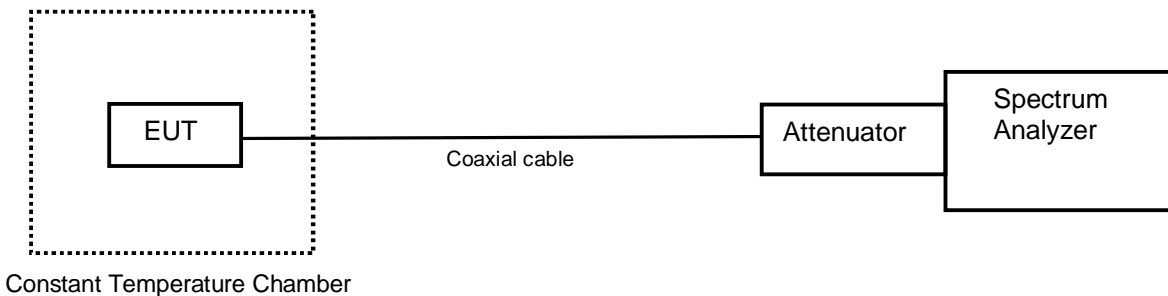
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band, 5.8 GHz Band

The test mode of EUT is as follows.

- Tx mode

- Test configuration



### 4.5.2 Limit

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.





Japan

#### 4.5.3 Measurement result

Date : 9-November-2022  
Temperature : 22.0 [°C]  
Humidity : 37.3 [%]  
Test place : Shielded room No.4

Test engineer : Kazunori Saito



**[IEEE802.11a]  
Channel: 36 (5180 MHz)**

Power Supply	Temperature	Measurements Frequency (startup)	Frequency Tolerance (startup)	Measurements Frequency (2mins)	Frequency Tolerance (2mins)	Measurements Frequency (5mins)	Frequency Tolerance (5mins)	Measurements Frequency (10mins)	Frequency Tolerance (10mins)
[V]	[°C]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]
3.87	25(Ref.)	5179993803	0.00000000	5180010255	3.17606558	5180015522	4.19286216	5180015497	4.18803590
	60	5179970371	-4.52355754	5179984933	-1.71235726	5179997864	0.78397777	5179994626	0.15888050
	50	5179995541	0.33552164	5179982121	-2.25521505	5179996830	0.58436363	5179990252	-0.68552206
	40	5179981798	-2.31757034	5179977833	-3.08301527	5179995736	0.37316647	5179982445	-2.19266672
	30	5180006258	2.40444303	5179989550	-0.82104345	5179994124	0.06196919	5180006425	2.43668245
	20	5180025402	6.10020035	5180026767	6.36371418	5180042683	9.43630473	5180014781	4.04981179
	10	5180047022	10.27395051	5180043919	9.67491505	5180043261	9.54788787	5180009111	2.95521589
	0	5180023746	5.78050885	5180036882	8.31641922	5180049592	10.77009010	5180043381	9.57105392
	-10	5180033963	7.75290503	5180045177	9.91777248	5180024418	5.91023873	5180054995	11.81314155
	-20	5180047478	10.36198151	5180040290	8.97433506	5180057013	12.20271730	5180060052	12.78939754
	-30	5180018390	4.74653077	5180027530	6.51101165	5180023337	5.70155122	5180008219	2.78301491
3.48	25	5180027276	6.46197684	5180006811	2.51119992	5180034180	7.79479697	5180003626	1.89633431
4.26	25	5180014318	3.96042945	5180016396	4.36158823	5180038662	8.66004897	5180021030	5.25618389

\*: Tested by EB1146

Frequency Tolerance (ppm) = Measurements Frequency (Hz) – Reference Frequency (Hz) / Reference Frequency (Hz) x 1000000

**Channel: 64 (5320 MHz)**

Power Supply	Temperature	Measurements Frequency (startup)	Frequency Tolerance (startup)	Measurements Frequency (2mins)	Frequency Tolerance (2mins)	Measurements Frequency (5mins)	Frequency Tolerance (5mins)	Measurements Frequency (10mins)	Frequency Tolerance (10mins)
[V]	[°C]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]
3.87	25(Ref.)	5319999560	0.00000000	5319995252	-0.80968465	5319989471	-1.89633888	5319995752	-0.71569968
	60	5319989962	-1.80404564	5319982249	-3.25385779	5319979164	-3.83374505	5319998225	-0.25085002
	50	5319993626	-1.11532378	5319981581	-3.37942171	5319987645	-2.23957199	5319980253	-3.62904579
	40	5319989610	-1.87021106	5319985913	-2.56513593	5319985626	-2.61908330	5319999709	0.02805245
	30	5319996415	-0.59107561	5319986094	-2.53111337	5319997158	-0.45141395	5319994931	-0.87002300
	20	5320000000	0.08279662	5320019060	3.66550369	5320015505	2.99727055	5320025836	4.93918800
	10	5320037556	7.14219570	5320000000	0.08279662	5320015911	3.07358634	5320030416	5.80009033
	0	5320035911	6.83298515	5320038910	7.39670700	5320028991	5.53223316	5320035586	6.77189492
	-10	5320035657	6.78524079	5320041240	7.83467696	5320041151	7.81794764	5320031485	6.00103020
	-20	5320030503	5.81644371	5320031085	5.92584222	5320040990	7.78768448	5320038679	7.35328595
	-30	5320018715	3.60065406	5320011182	2.18467650	5320011607	2.26456372	5319998502	-0.19878235
3.48	25	5319998392	-0.21945904	5320001040	0.27828536	5320009520	1.87227046	5319993421	-1.15385761
4.26	25	5319999508	-0.00964831	5319998941	-0.11626354	5320001931	0.44576658	5319989403	-1.90912083

\*: Tested by EB1146

Frequency Tolerance (ppm) = Measurements Frequency (Hz) – Reference Frequency (Hz) / Reference Frequency (Hz) x 1000000



**Channel: 144 (5720 MHz)**

Power Supply [V]	Temperature [°C]	Measurements Frequency (startup) [Hz]	Frequency Tolerance (startup) [ppm]	Measurements Frequency (2mins) [Hz]	Frequency Tolerance (2mins) [ppm]	Measurements Frequency (5mins) [Hz]	Frequency Tolerance (5mins) [ppm]	Measurements Frequency (10mins) [Hz]	Frequency Tolerance (10mins) [ppm]
3.87	25(Ref.)	5720012119	0.0000000	5719999382	-2.22673182	5720002749	-1.63810842	5719991033	-3.68635583
	60	5719981743	-5.31047826	5719973607	-6.73285287	5719985497	-4.65418594	5719983425	-5.01642294
	50	5719969551	-7.44194227	5719960459	-9.03144940	5719983519	-4.99998941	5719969247	-7.49508902
	40	5719972999	-6.83914635	5719985245	-4.69824179	5719992281	-3.46817447	5719981127	-5.41817034
	30	5719993821	-3.19894427	5720001117	-1.92342250	5719982740	-5.13617793	5720006007	-1.06852920
	20	5720025414	2.32429577	5719996683	-2.69859568	5720027440	2.67849083	5720018217	1.06608166
	10	5720040357	4.93670283	5720026355	2.48880592	5720032028	3.48058703	5720034325	3.88215961
	0	5720023538	1.99632444	5720033679	3.76922278	5720029716	3.07639208	5720038195	4.55873160
	-10	5720031764	3.43443328	5720028961	2.94439936	5720053974	7.31729219	5720043834	5.54456867
	-20	5720031719	3.42656617	5720033233	3.69125092	5720045500	5.83582680	5720036043	4.18250862
	-30	5720007252	-0.85087232	5720017485	0.93810990	5720024072	2.08968089	5720040336	4.93303151
3.48	25	5719997370	-2.57849104	5720008355	-0.65804056	5720011744	-0.06555930	5720005863	-1.09370398
4.26	25	5720013160	0.18199262	5720013531	0.24685262	5720012176	0.00996501	5719996969	-2.64859579

\*: Tested by EB1146

$$\text{Frequency Tolerance (ppm)} = \frac{\text{Measurements Frequency (Hz)} - \text{Reference Frequency (Hz)}}{\text{Reference Frequency (Hz)}} \times 1000000$$

## 4.6 AC Power Line Conducted Emissions

### 4.6.1 Measurement procedure

#### [FCC 15.207]

Test was applied by following conditions.

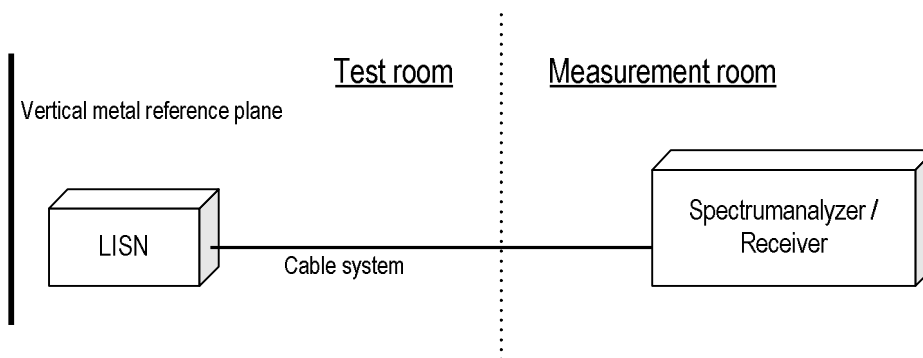
Test method	:	ANSI C63.10
Frequency range	:	0.15 MHz to 30 MHz
Test place	:	3m Semi-anechoic chamber
EUT was placed on	:	Styrofoam table / (W)1.0m × (D)0.8m × (H)0.8m
Vertical Metal Reference Plane	:	(W) 2.0 × (H) 2.0 m, 0.4 m away from EUT
Test receiver setting		
- Detector	:	Quasi-peak, Average
- Bandwidth	:	9 kHz

EUT and peripherals are connected to 50Ω/50μH Line Impedance Stabilization Network (LISN) which are connected to reference ground plane, and are placed 80cm away from EUT. Excess of AC power cable is bundled in center.

LISN for peripheral is terminated in 50Ω.

EUT operating mode is selected to emit the maximum noise. Overall frequency range is investigated with spectrum analyzer using peak detector. Maximum emission configuration is determined by manipulating the EUT, peripherals, interconnecting cables. Then, emission measurements are performed with test receiver in above setting to each current-carrying conductor of the mains port. Sufficient time for EUT, peripherals and test equipment is provided in order for them to warm up to their normal operating condition. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits.

- Test configuration



### 4.6.2 Calculation method

Emission level = Reading + (LISN. factor + Cable system loss)

Margin = Limit – Emission level

#### 4.6.3 Limit

Frequency [MHz]	Limit	
	QP [dBuV]	AV [dBuV]
0.15-0.5	66-56*	56-46*
0.5-5	56	46
5-30	60	50

\*: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

#### 4.6.4 Test data

Date : 9-December-2022

Temperature : 20.4 [°C]

Humidity : 24.6 [%]

Test place : 3m Semi-anechoic chamber

Test engineer :

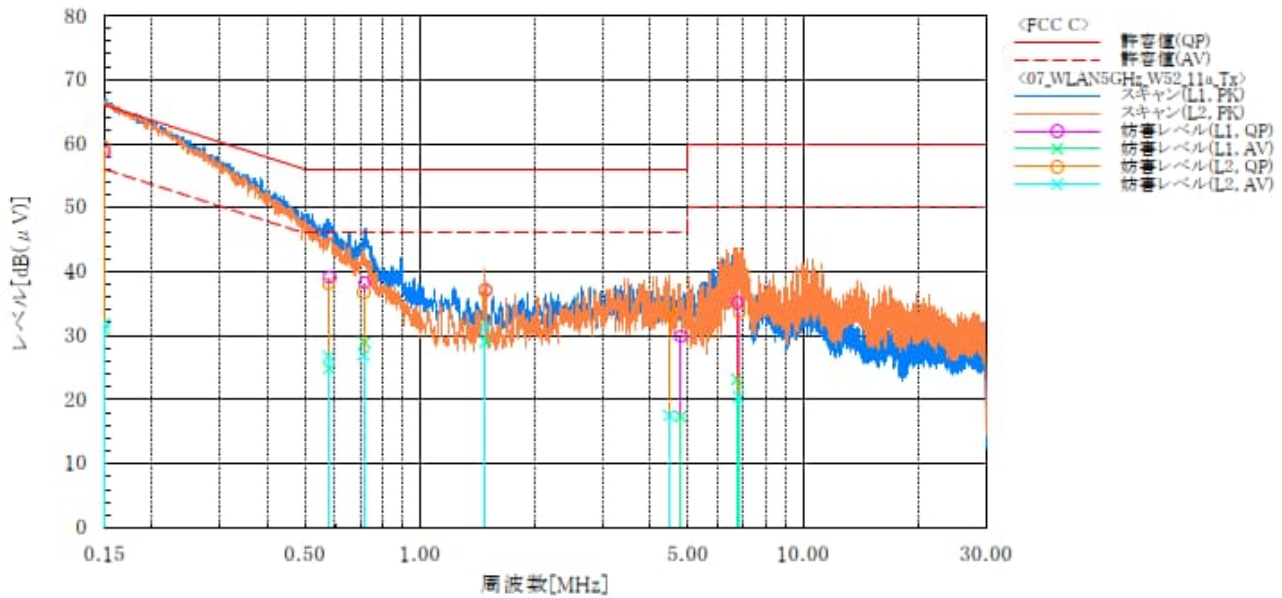
Tadahiro Seino



[5.2 GHz Band]

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN5GHz\_11a\_W52\_Tx

Standard : FCC Part 15 Class C  
 Operator : T.Seino  
 Temp,Hum,Atm : 20.4 [° C], 24.6 [%]  
 Note1 : CH:36\_5180MHz  
 Note2 :



Final Result

--- L1 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.150	48.2	20.4	10.6	58.8	31.0	66.0	56.0	7.2	25.0	
2	0.581	28.7	14.5	10.4	39.1	24.9	56.0	46.0	16.9	21.1	
3	0.719	27.8	18.5	10.4	38.2	28.9	56.0	46.0	17.8	17.1	
4	1.481	26.6	18.5	10.5	37.1	29.0	56.0	46.0	18.9	17.0	
5	4.808	19.2	6.6	10.7	29.9	17.3	56.0	46.0	26.1	28.7	
6	6.740	24.2	12.3	10.9	35.1	23.2	60.0	50.0	24.9	26.8	

--- L2 ---

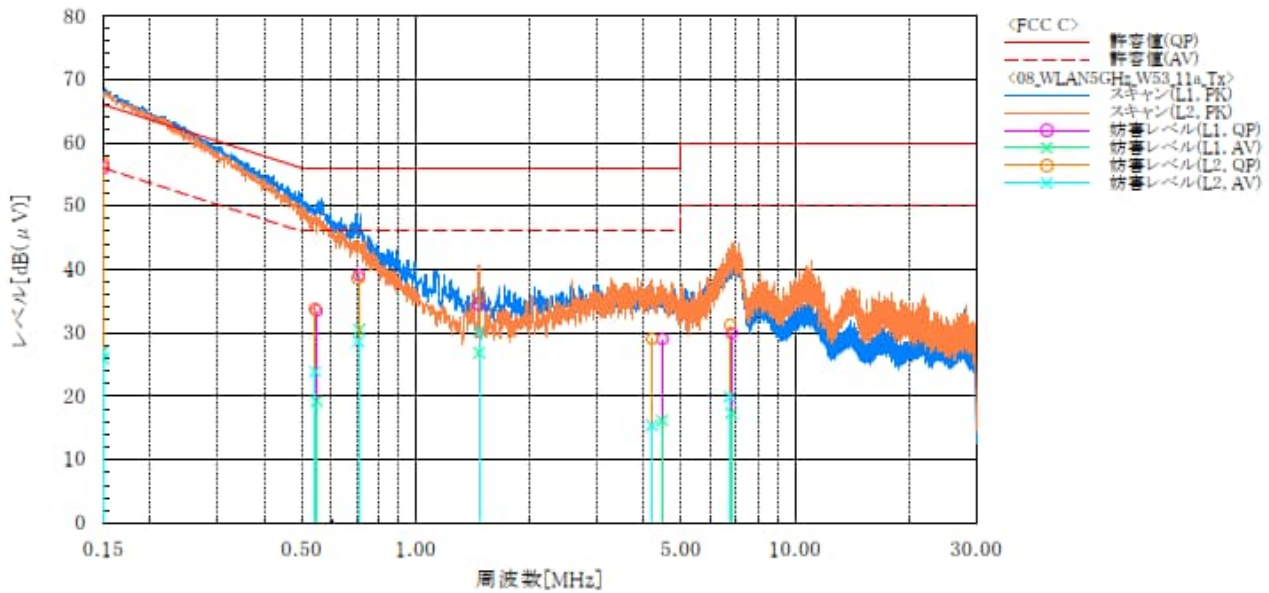
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.150	48.8	21.3	10.6	59.4	31.9	66.0	56.0	6.6	24.1	
2	0.579	27.6	16.3	10.4	38.0	26.7	56.0	46.0	18.0	19.3	
3	0.714	26.4	16.5	10.4	36.8	26.9	56.0	46.0	19.2	19.1	
4	1.482	26.5	20.9	10.5	37.0	31.4	56.0	46.0	19.0	14.6	
5	4.480	23.5	6.8	10.7	34.2	17.5	56.0	46.0	21.8	28.5	
6	6.801	22.7	9.5	10.9	33.6	20.4	60.0	50.0	26.4	29.6	



[5.3 GHz Band]

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN5GHz\_11a\_W53\_Tx

Standard : FCC Part 15 Class C  
 Operator : T.Seino  
 Temp.Hum.Atm : 20.4 [°C], 24.6 [%]  
 Note1 : CH:52\_5260MHz  
 Note2 :



Final Result

--- L1 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.150	45.4	15.3	10.6	56.0	25.9	66.0	56.0	10.0	30.1	
2	0.550	23.1	8.8	10.4	33.5	19.2	56.0	46.0	22.5	26.8	
3	0.712	28.7	20.1	10.4	39.1	30.5	56.0	46.0	16.9	15.5	
4	1.472	24.0	16.3	10.5	34.5	26.8	56.0	46.0	21.5	19.2	
5	4.462	18.3	5.5	10.7	29.0	16.2	56.0	46.0	27.0	29.8	
6	6.810	19.1	6.4	10.9	30.0	17.3	60.0	50.0	30.0	32.7	

--- L2 ---

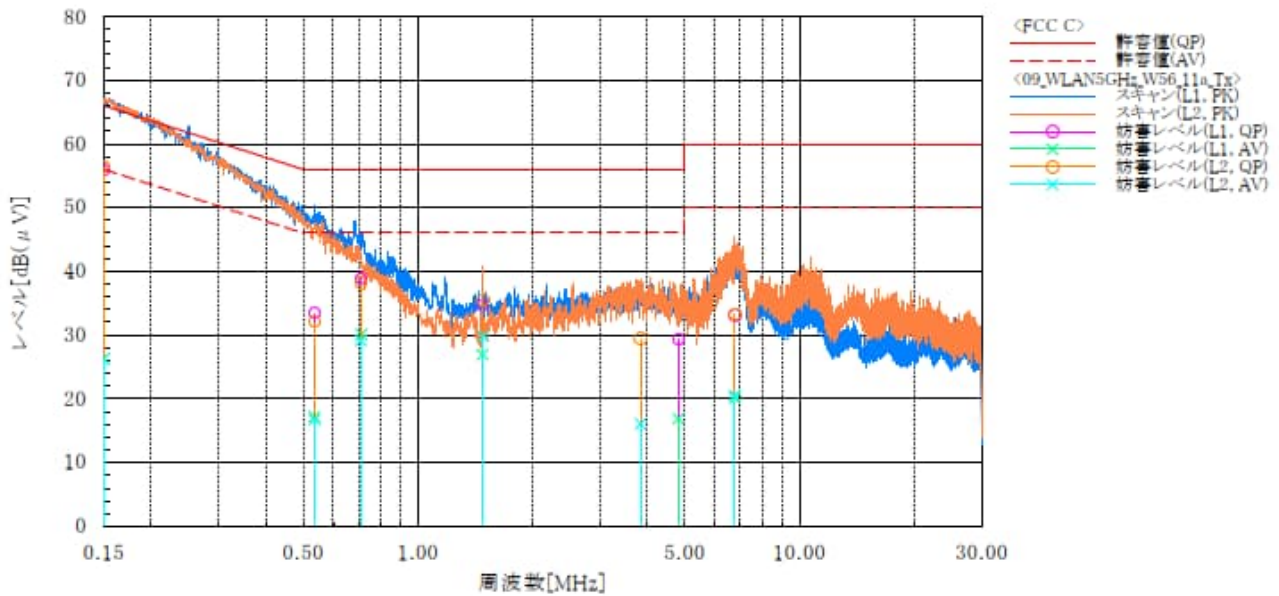
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.150	46.2	16.4	10.6	56.8	27.0	66.0	56.0	9.2	29.0	
2	0.543	23.4	13.5	10.4	33.8	23.9	56.0	46.0	22.2	22.1	
3	0.707	28.3	18.2	10.4	38.7	28.6	56.0	46.0	17.3	17.4	
4	1.473	25.5	19.7	10.5	36.0	30.2	56.0	46.0	20.0	15.8	
5	4.198	18.4	4.7	10.7	29.1	15.4	56.0	46.0	26.9	30.6	
6	6.741	20.3	9.0	10.9	31.2	19.9	60.0	50.0	28.8	30.1	



[5.6 GHz Band]

Company name : KYOCERA Corporation  
 EUT : Mobile Phone  
 Model No. : EB1155  
 Serial No. : N/A  
 Test mode : WLAN5GHz\_11a\_W56\_Tx

Standard : FCC Part 15 Class C  
 Operator : T.Seino  
 Temp.Hum.Atm : 20.4 [ ° C ], 24.6 [%]  
 Note1 : CH:100\_5500MHz  
 Note2 :



Final Result

--- L1 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.150	45.3	15.6	10.6	55.9	26.2	66.0	56.0	10.1	29.8	
2	0.536	23.1	6.8	10.4	33.5	17.2	56.0	46.0	22.5	28.8	
3	0.712	28.5	19.7	10.4	38.9	30.1	56.0	46.0	17.1	15.9	
4	1.479	24.2	16.4	10.5	34.7	26.9	56.0	46.0	21.3	19.1	
5	4.817	18.6	6.2	10.7	29.3	16.9	56.0	46.0	26.7	29.1	
6	6.769	22.2	9.2	10.9	33.1	20.1	60.0	50.0	26.9	29.9	

--- L2 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading AV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result AV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin AV [dB]	Remark
1	0.150	45.9	15.7	10.6	56.5	26.3	66.0	56.0	9.5	29.7	
2	0.536	21.7	6.3	10.4	32.1	16.7	56.0	46.0	23.9	29.3	
3	0.709	27.8	18.8	10.4	38.2	29.2	56.0	46.0	17.8	16.8	
4	1.480	25.0	19.3	10.5	35.5	29.8	56.0	46.0	20.5	16.2	
5	3.834	18.8	5.5	10.6	29.4	16.1	56.0	46.0	26.6	29.9	
6	6.775	22.4	9.7	10.9	33.3	20.6	60.0	50.0	26.7	29.4	



#### 4.7 Duty Cycle

##### 4.7.1 Measurement procedure

###### [ANSI C63.10, Section 12.2, KDB 789033 D02, Section B, Zero-Span Spectrum Analyzer Method]

The duty cycle 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=8 MHz, VBW=8 MHz, Span=0 Hz, Sweep=Auto, Detector=Peak, Trace mode=Single

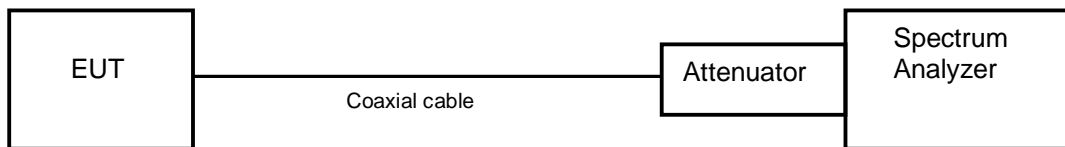
The EUT was set to operate with following conditions.

- 5.2 GHz Band, 5.3 GHz Band, 5.6 GHz Band, 5.8 GHz Band

The test mode of EUT is as follows.

- Tx mode

- Test configuration



##### 4.7.2 Limit

None

##### 4.7.3 Measurement result

Date : 12-October-2022  
Temperature : 24.9 [°C]  
Humidity : 41.6 [%]  
Test place : Shielded room No.4

Test engineer :

Taiki Watanabe



Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) 10log(1/x)	DCF (dB) 20log(1/x)
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11a	36	5180	1.376	1.412	0.975	726.7	0.110	0.220
	40	5200						
	48	5240						
	52	5260	1.394	1.430	0.975	717.4	0.110	0.220
	56	5280						
	64	5320						
	100	5500	1.342	1.382	0.971	745.2	0.128	0.256
	116	5580						
	140	5700						
144	5720							

\*: Tested by EB1146

Note: X = On time / (On + Off time)

Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) 10log(1/x)	DCF (dB) 20log(1/x)
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11n (20MHz)	36	5180	1.288	1.324	0.973	776.4	0.119	0.238
	40	5200						
	48	5240						
	52	5260	1.392	1.430	0.973	718.4	0.119	0.238
	56	5280						
	64	5320						
	100	5500	1.260	1.298	0.971	793.7	0.128	0.256
	116	5580						
	140	5700						
144	5720							

\*: Tested by EB1146

Note: X = On time / (On + Off time)



Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) 10log(1/x)	DCF (dB) 20log(1/x)
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11n (40MHz)	38	5190	0.636	0.672	0.946	1572.3	0.241	0.482
	46	5230						
	54	5270	0.636	0.672	0.946	1572.3	0.241	0.482
	62	5310						
	102	5510	0.637	0.672	0.948	1569.9	0.232	0.464
	110	5550						
	134	5670						
142	5710							

\*: Tested by EB1146

Note: X = On time / (On + Off time)

Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) 10log(1/x)	DCF (dB) 20log(1/x)
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11ac (80MHz)	42	5210	0.325	0.360	0.903	3076.9	0.443	0.886
	58	5290	0.315	0.352	0.895	3174.6	0.482	0.964
	106	5530	0.324	0.359	0.903	3086.4	0.443	0.886
	121	5610	0.315	0.352	0.895	3174.6	0.482	0.964
	138	5690	0.324	0.359	0.903	3086.4	0.443	0.886

\*: Tested by EB1146

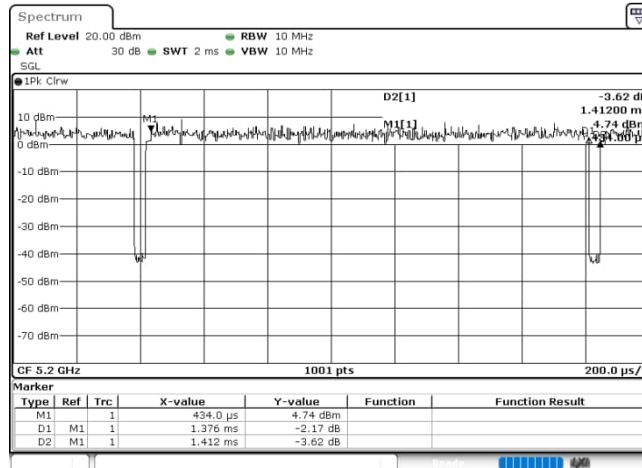
Note: X = On time / (On + Off time)



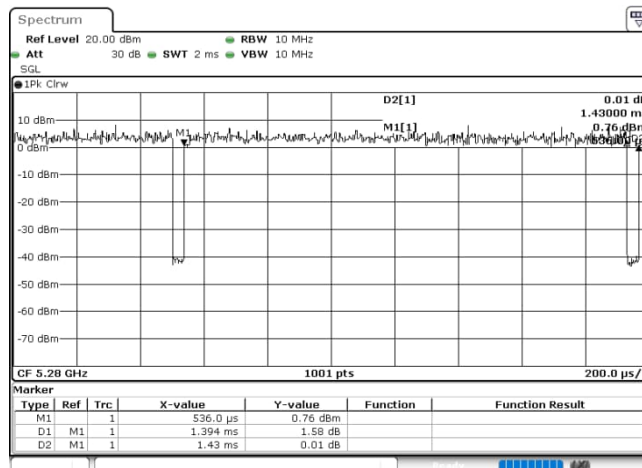
Japan

### 4.7.4 Trace data

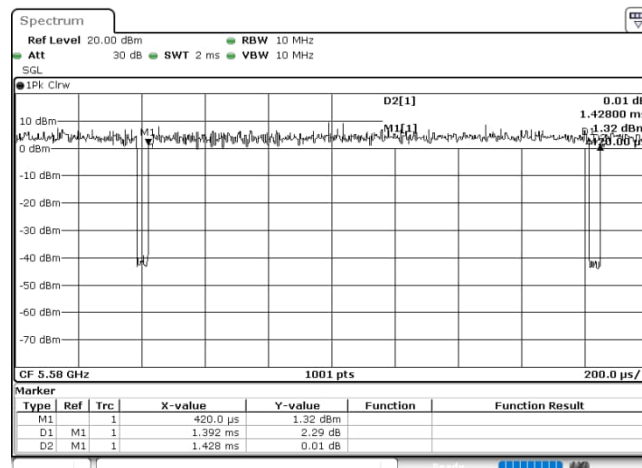
[IEEE802.11a]  
(5.2 GHz Band)  
Channel: 40



(5.3 GHz Band)  
Channel: 56

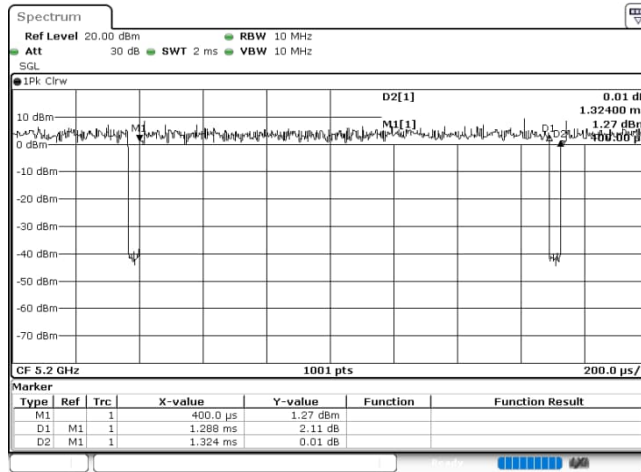


(5.6 GHz Band)  
Channel: 116

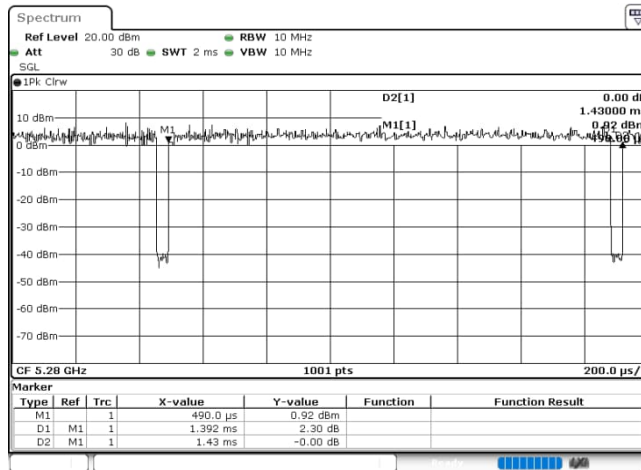




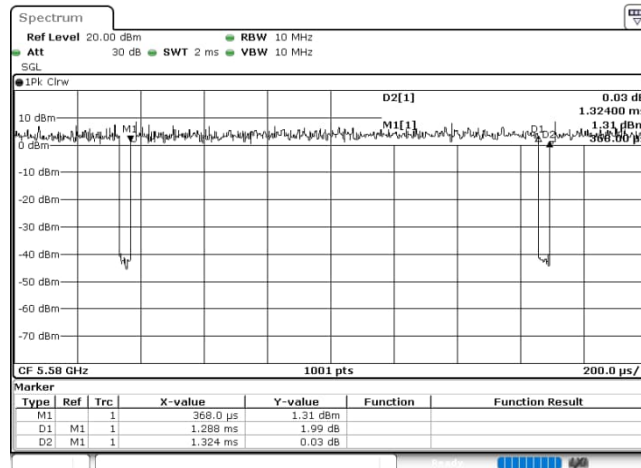
**[IEEE802.11n (HT20)]  
(5.2 GHz Band)  
Channel: 40**



**(5.3 GHz Band)  
Channel: 56**

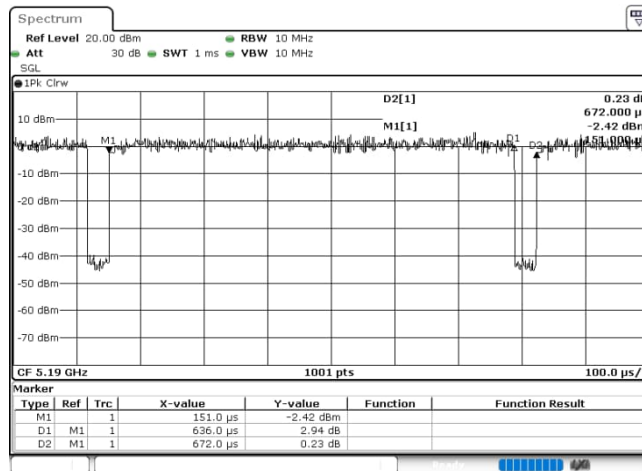


**(5.6 GHz Band)  
Channel: 116**

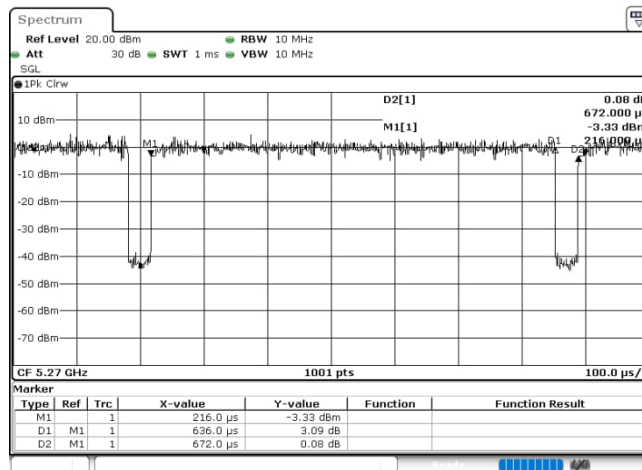




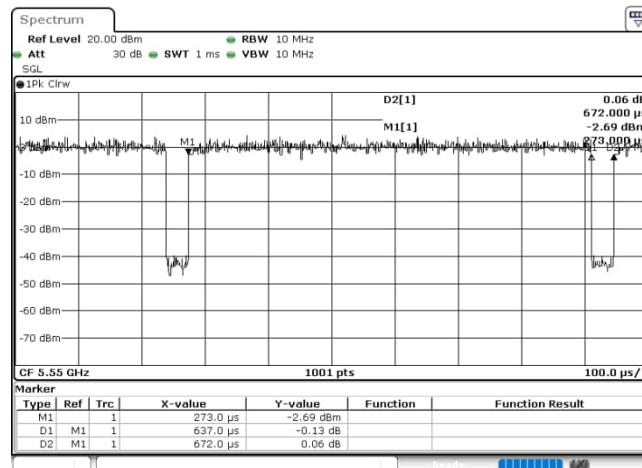
**[IEEE802.11n (HT40)]  
(5.2 GHz Band)  
Channel: 38**



**(5.3 GHz Band)  
Channel: 54**

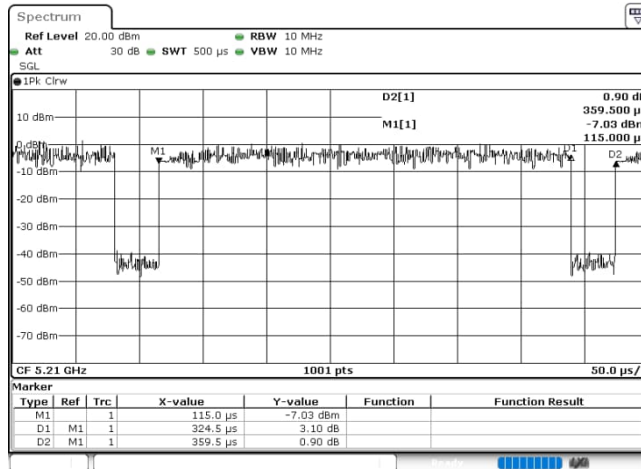


**(5.6 GHz Band)  
Channel: 110**

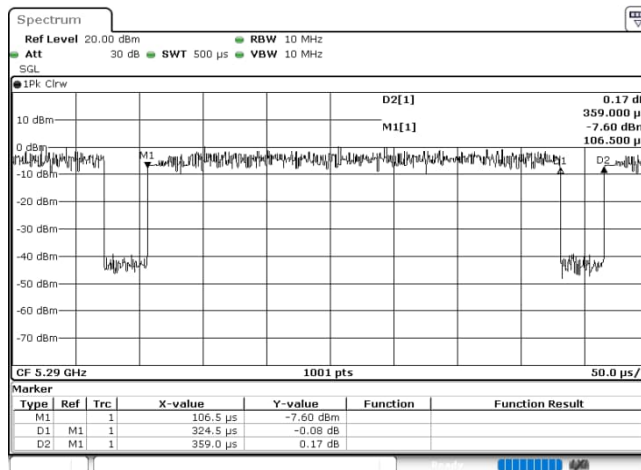




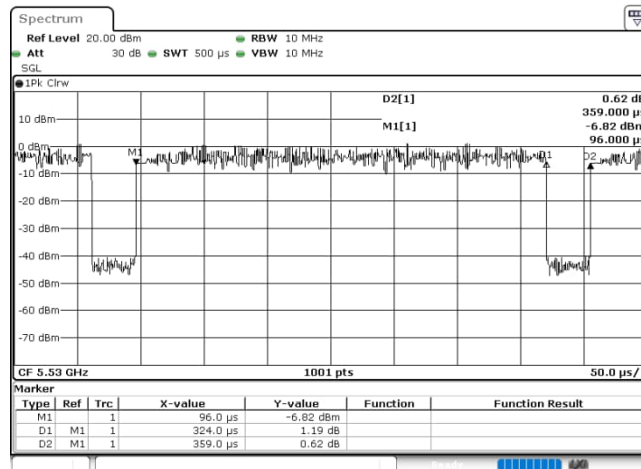
**[IEEE802.11ac (HT80)]  
(5.2 GHz Band)  
Channel: 42**



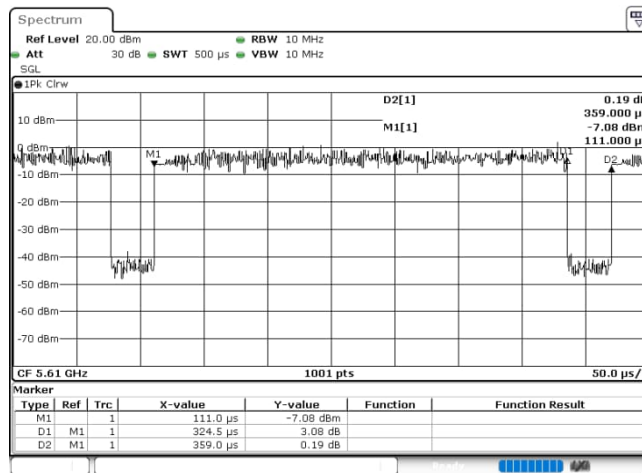
**(5.3 GHz Band)  
Channel: 58**



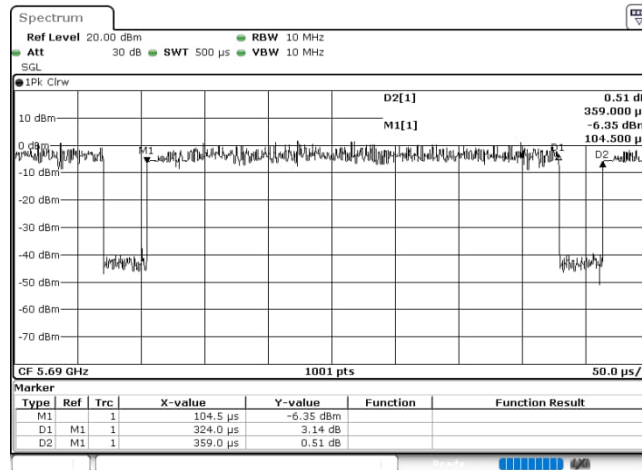
**(5.6 GHz Band)  
Channel: 106**



**(5.6 GHz Band)  
Channel: 122**



**Channel: 138**







Japan

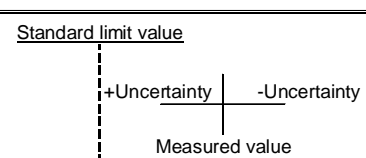

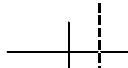
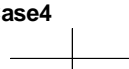
## 5 Antenna requirement

According to FCC section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The antenna is a special antenna mounted inside of the EUT. Therefore, the EUT complies with the antenna requirement of FCC section 15.203.

## 6 Measurement uncertainty

Expanded uncertainties stated are calculated with a coverage Factor  $k=2$ .  
 Please note that these results are not taken into account when measurement uncertainty considerations contained in ETSI TR 100 028 Parts 1 and 2 determining compliance or non-compliance with test result.

Test item	Measurement uncertainty
Conducted emission, AMN (9 kHz – 150 kHz)	$\pm 3.7$ dB
Conducted emission, AMN (150 kHz – 30 MHz)	$\pm 3.3$ dB
Radiated emission (9kHz – 30 MHz)	$\pm 3.2$ dB
Radiated emission (30 MHz – 1000 MHz)	$\pm 5.5$ dB
Radiated emission (1 GHz – 6 GHz)	$\pm 5.0$ dB
Radiated emission (6 GHz – 18 GHz)	$\pm 4.6$ dB
Radiated emission (18 GHz – 40 GHz)	$\pm 6.4$ dB
Radio Frequency	$\pm 1.3 \cdot 10^{-8}$
RF power, conducted	$\pm 0.7$ dB
Adjacent channel power	$\pm 1.5$ dB
Temperature	$\pm 0.6$ °C
Humidity	$\pm 1.2$ %
Voltage (DC)	$\pm 0.4$ %
Voltage (AC, <10kHz)	$\pm 0.2$ %

Judge	Measured value and standard limit value
PASS	<p><b>Case1</b></p>  <p>Even if it takes uncertainty into consideration, a standard limit value is fulfilled.</p>
	<p><b>Case2</b></p>  <p>Although measured value is in a standard limit value, a limit value won't be fulfilled if uncertainty is taken into consideration.</p>
FAIL	<p><b>Case3</b></p>  <p>Although measured value exceeds a standard limit value, a limit value will be fulfilled if uncertainty is taken into consideration.</p>
	<p><b>Case4</b></p>  <p>Even if it takes uncertainty into consideration, a standard limit value isn't fulfilled.</p>



Japan

## 7 Laboratory Information

Testing was performed and the report was issued at:

**TÜV SÜD Japan Ltd. Yonezawa Testing Center**

Address: 5-4149-7 Hachimanpara, Yonezawa-shi, Yamagata, 992-1128 Japan

Phone: +81-238-28-2881

**Accreditation and Registration**

A2LA

Certificate #3686.03

VLAC

Accreditation No.: VLAC-013

BSMI

Laboratory Code: SL2-IN-E-6018, SL2-A1-E-6018

Innovation, Science and Economic Development Canada

ISED#: 4224A

VCCI Council

Registration number: A-0166

## Appendix A. Test Equipment

### Radiated emission

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI Receiver	ROHDE&SCHWARZ	ESCI	100765	30-Sep-2023	14-Sep-2022
EMI receiver	ROHDE&SCHWARZ	ESW44	103171	30-Sep-2023	20-Sep-2022
Spectrum analyzer	Agilent Technologies	E4440A	US44302655	30-Sep-2023	05-Sep-2022
Preamplifier	SONOMA	310	372170	30-Sep-2023	28-Sep-2022
Loop antenna	ROHDE&SCHWARZ	HFH2-Z2	100515	30-Apr-2023	18-Apr-2022
Attenuator	TOYO Connector	NA-PJ-6	N/A(S507)	28-Feb-2023	03-Feb-2022
Biconical antenna	Schwarzbeck	VHBB9124/BBA9106	1145	30-Jun-2023	28-Jun-2022
Log periodic antenna	Schwarzbeck	VUSLP9111B	345	30-Nov-2022	08-Nov-2021
			346	30-Nov-2023	16-Nov-2022
Attenuator	TOYO Connector	NA-PJ-6/6dB	N/A(S541)	30-Sep-2023	28-Sep-2022
Attenuator	TAMAGAWA.ELEC	CFA-10/3dB	N/A(S503)	31-Jul-2023	14-Jul-2022
Preamplifier	TSJ	MLA-100M18-B02-40	1929118	31-Dec-2022	22-Dec-2021
Attenuator	AEROFLEX	26A-10	081217-08	31-Dec-2022	22-Dec-2021
Double ridged guide antenna	ETS LINDGREN	3117	00052315	30-Jun-2023	22-Jun-2022
Attenuator	HUBER+SUHNER	6803.17.B	N/A(2340)	31-Dec-2022	23-Dec-2021
Double ridged guide antenna	A.H.Systems Inc.	SAS-574	469	31-Aug-2023	19-Aug-2022
Preamplifier	TSJ	MLA-1840-B03-35	1240332	31-Aug-2023	19-Aug-2022
Notch Filter	Micro-Tronics	BRM50716	006	31-Jul-2023	14-Jul-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX104/9m	MY30037/4	31-Dec-2022	22-Dec-2021
		SUCOFLEX104/1m	my24610/4	31-Dec-2022	22-Dec-2021
		SUCOFLEX104/8m	SN MY30033/4	31-Dec-2022	22-Dec-2021
		SUCOFLEX104/1m	MY32976/4	31-Dec-2022	22-Dec-2021
		SUCOFLEX104/2m	SN MY28404/4	31-Dec-2022	22-Dec-2021
		SUCOFLEX104/7m	41625/6	31-Dec-2022	22-Dec-2021
PC	DELL	DIMENSION E521	75465BX	N/A	N/A
Software	TOYO Corporation	EP5/RE-AJ	0611193/V6.0.140	N/A	N/A
PC	DELL	OPTIPLEX9010	00186-228-073-851	N/A	N/A
Software	TOYO Technica	ES10/RE-AJ	Ver.2021.10.001	N/A	N/A
Absorber	RIKEN	PFP30	N/A	N/A	N/A
3m Semi an-echoic Chamber	TOKIN	N/A	N/A(9002-NSA)	31-May-2023	28-May-2022
3m Semi an-echoic Chamber	TOKIN	N/A	N/A(9002-SVSWR)	31-May-2023	28-May-2022

### Conducted emission at mains port

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI receiver	ROHDE&SCHWARZ	ESW44	103171	30-Sep-2023	20-Sep-2022
Attenuator	HUBER+SUHNER	6810.01.A	N/A (S411)	31-Dec-2022	22-Dec-2021
Line impedance stabilization network	Kyoritsu Electrical Works, Ltd.	TNW-407F2	12-17-110-2	30-Jun-2023	15-Jun-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX104/5m	MY33601/4	31-Oct-2023	22-Oct-2022
Microwave cable	HUBER+SUHNER	SUCOFLEX104/2m	MY37268/4	31-Oct-2023	22-Oct-2022
Coaxial cable	HUBER+SUHNER	RG214/U/10m	N/A (S194)	31-Dec-2022	22-Dec-2021
PC	DELL	OPTIPLEX9010	00186-228-073-851	N/A	N/A
Software	TOYO Technica	ES10/RE-AJ	Ver.2021.10.001	N/A	N/A

\*: The calibrations of the above equipment are traceable to NIST or equivalent standards of the reference organizations.