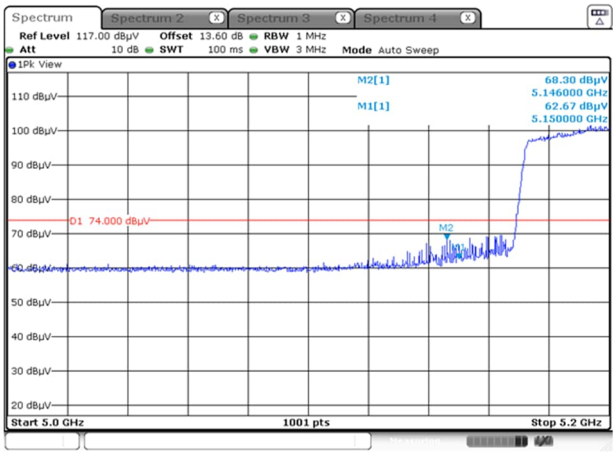
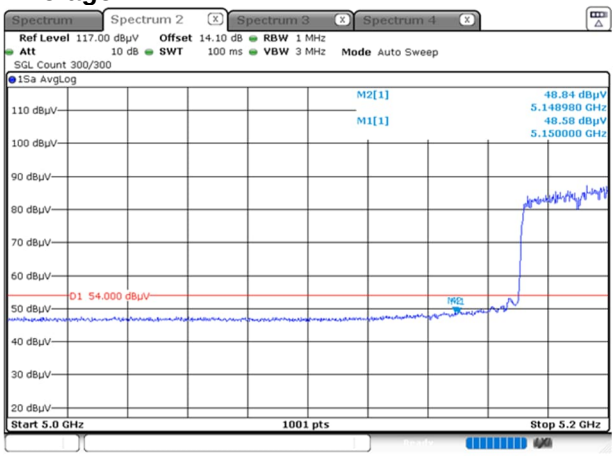
EB1190EM [IEEE802.11ac (VHT80)]

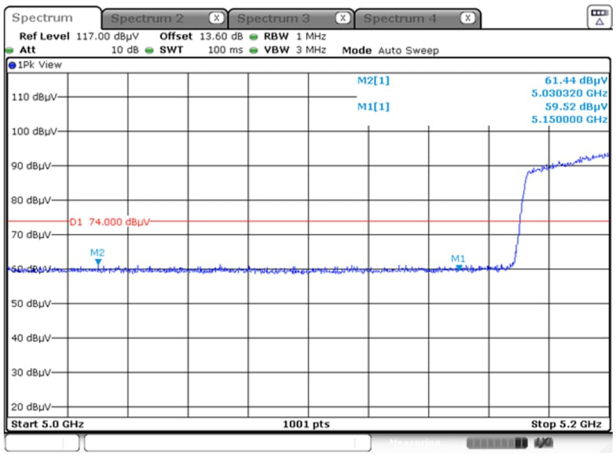
5.2 GHz Band, Channel Low
Horizontal
Peak



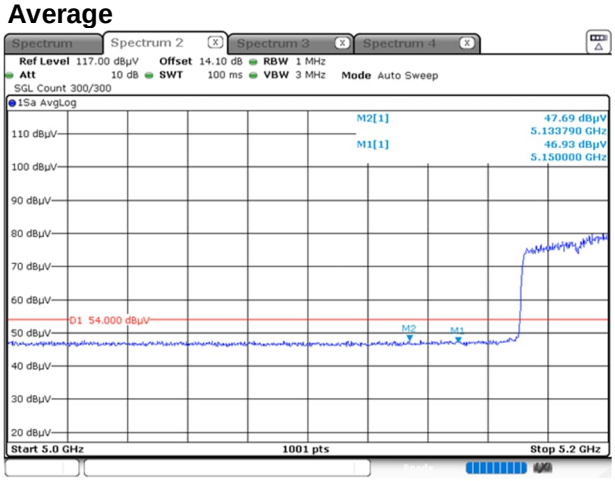
Average



Vertical
Peak

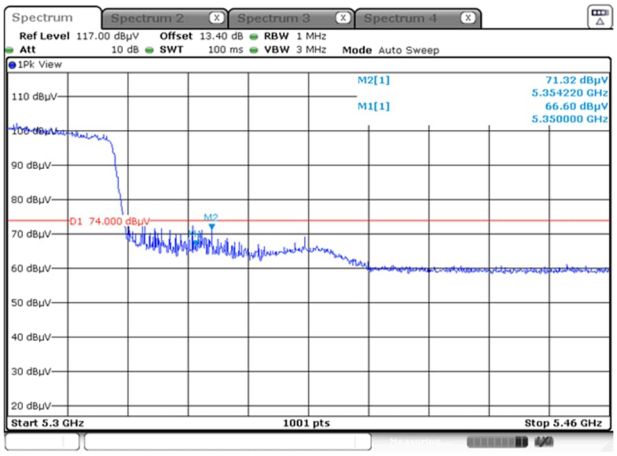


Average

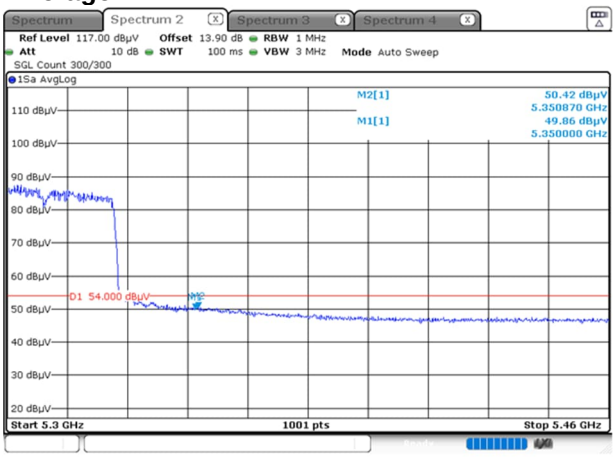


EB1190EM [IEEE802.11ac (VHT80)]

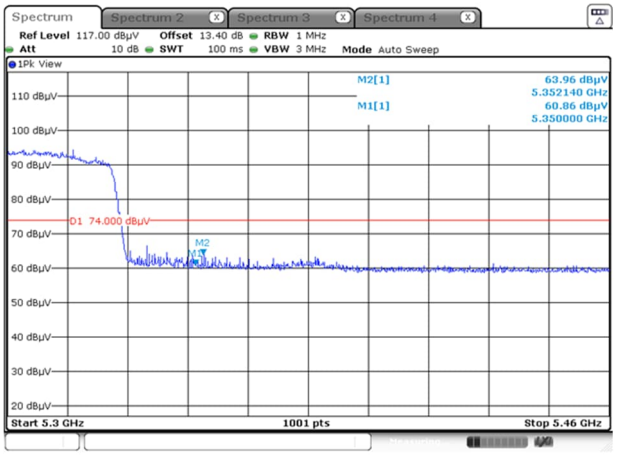
5.3 GHz Band, Channel High
Horizontal
Peak



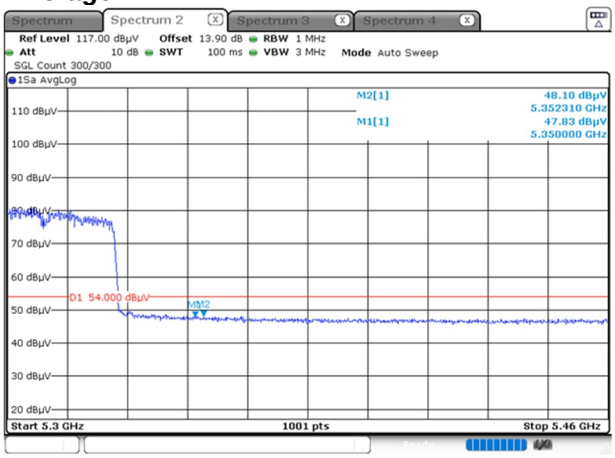
Average



Vertical
Peak

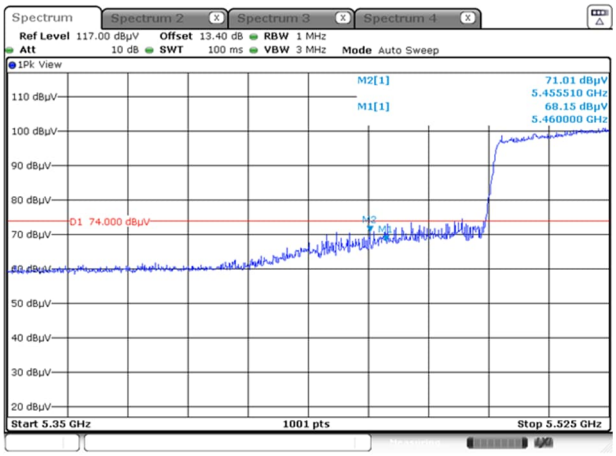


Average

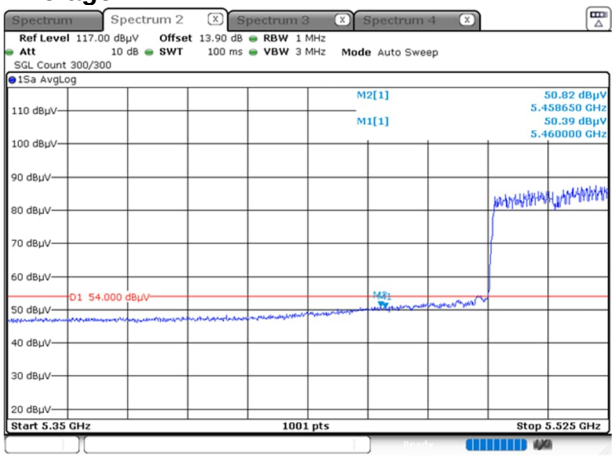


EB1190EM [IEEE802.11ac (VHT80)]

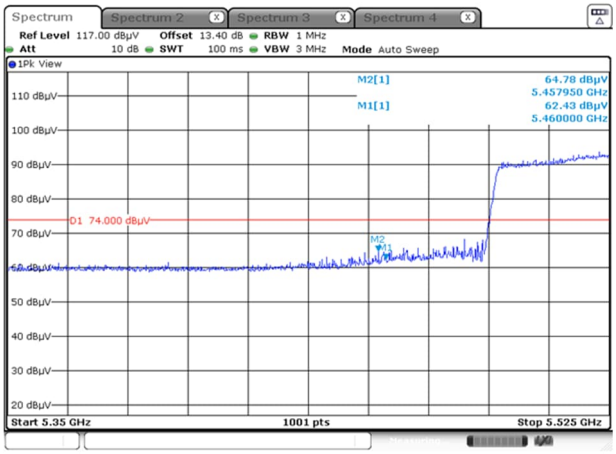
5.6 GHz Band, Channel Low
Horizontal
Peak



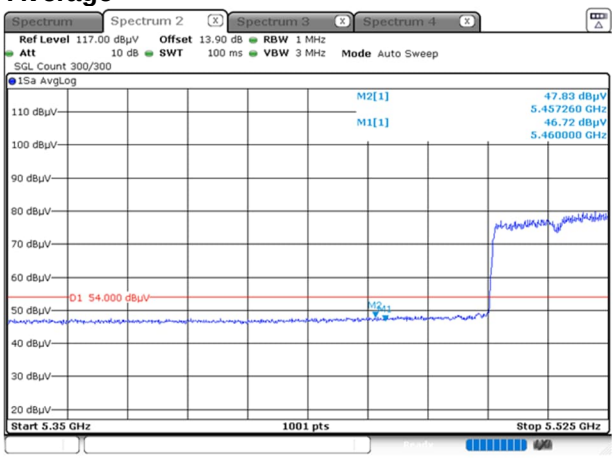
Average



Vertical
Peak

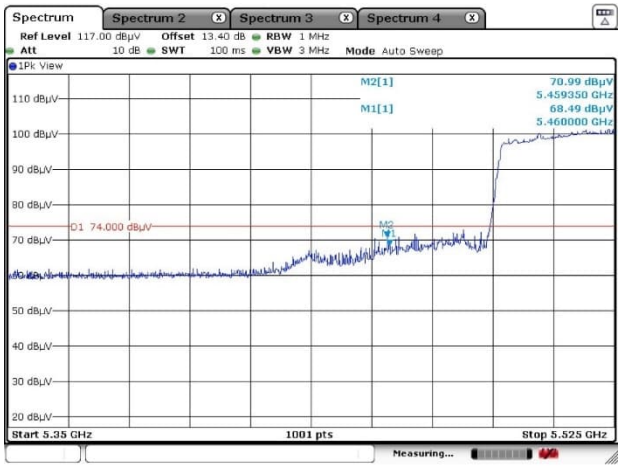


Average

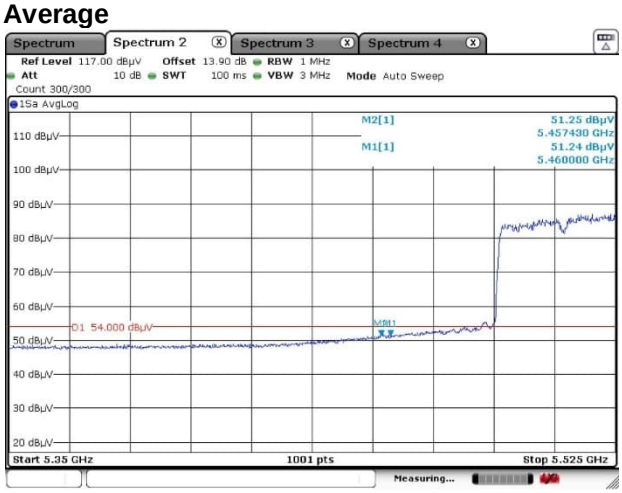


EB1207 [IEEE802.11ac (VHT80)]

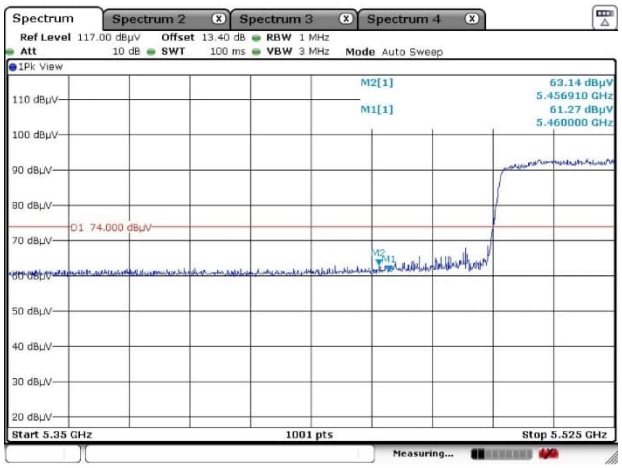
5.6 GHz Band, Channel Low
Horizontal
Peak



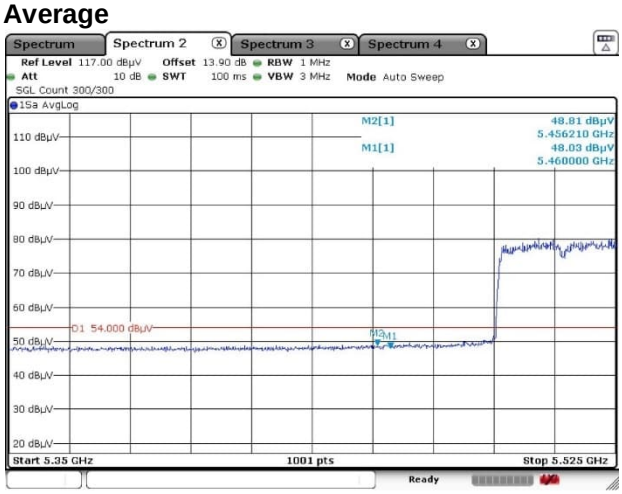
Average



Vertical
Peak



Average

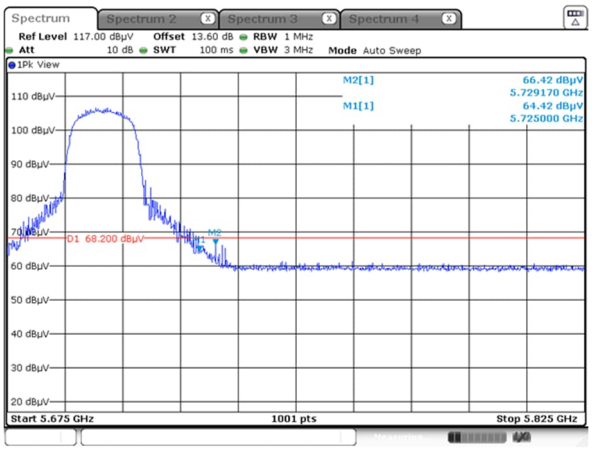


Comparison of the charts of EB1190EM and EB1207 showed that the difference in test results was less than 3 dB.

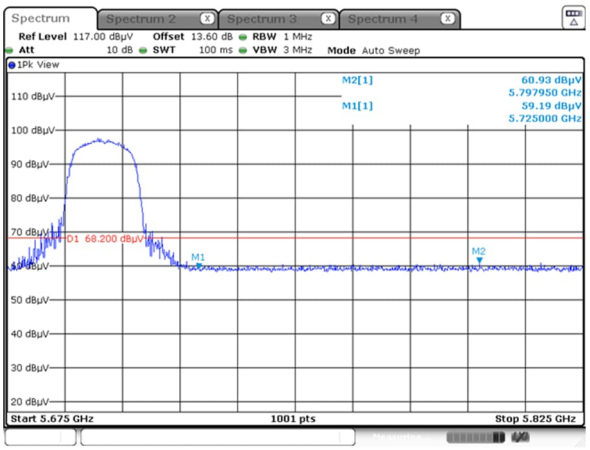
4.4.4.2 Non-Restricted Bandedge

[IEEE802.11a]

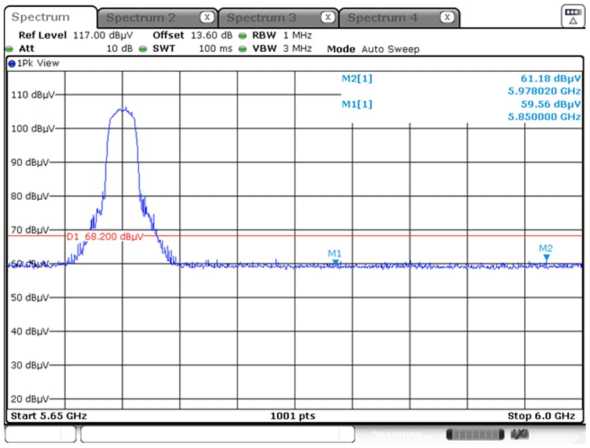
5.6 GHz Band, Channel High (140)
Peak
Horizontal



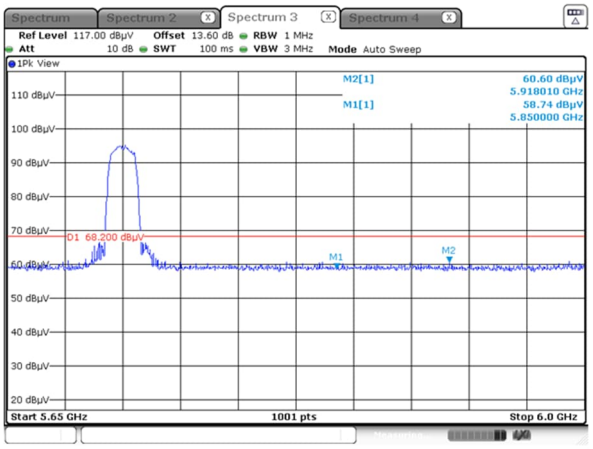
Vertical



5.6 GHz Band, Channel High (144)
Peak
Horizontal

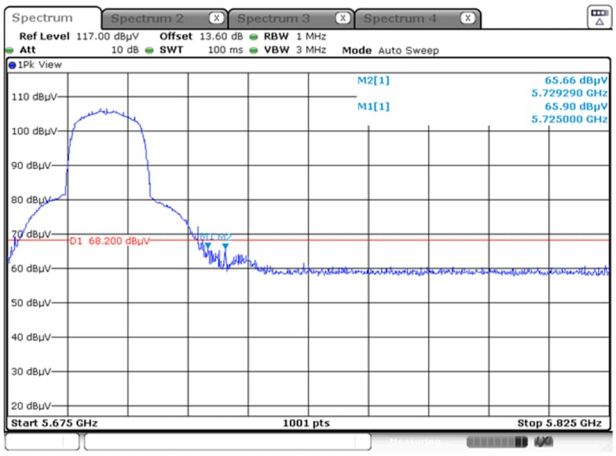


Vertical

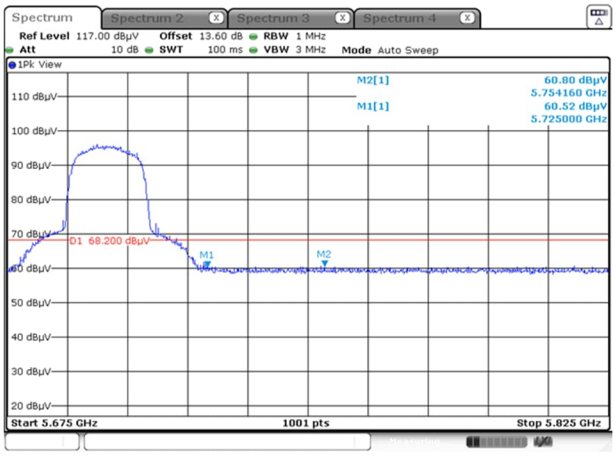


[IEEE802.11n (HT20)]

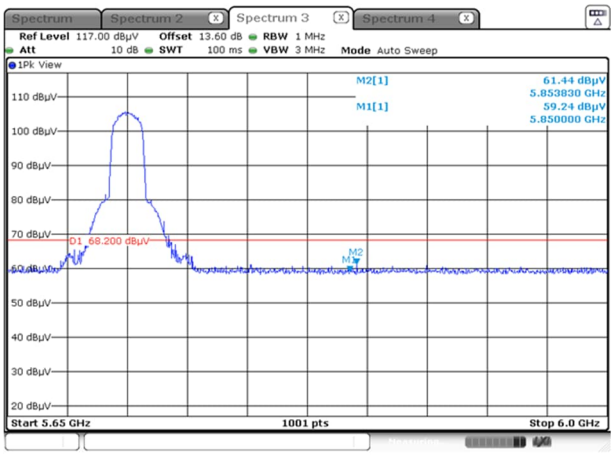
5.6 GHz Band, Channel High (140)
Peak
Horizontal



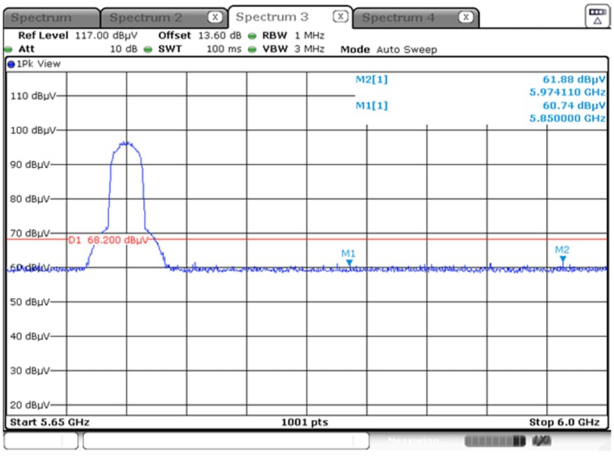
Vertical



5.6 GHz Band, Channel High (144)
Peak
Horizontal

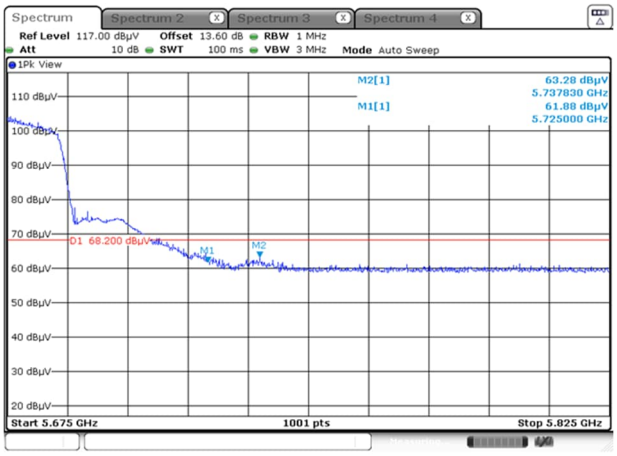


Vertical

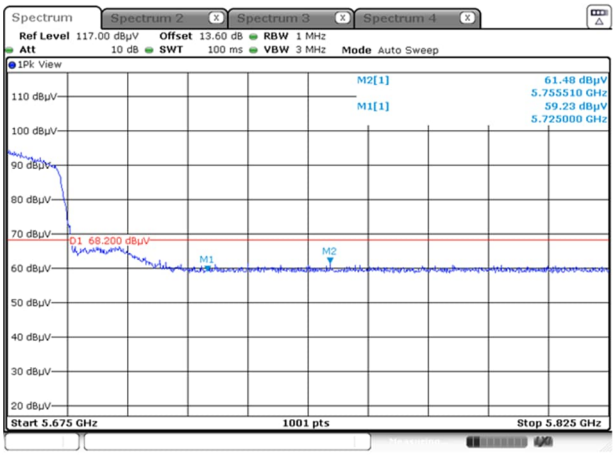


[IEEE802.11n (HT40)]

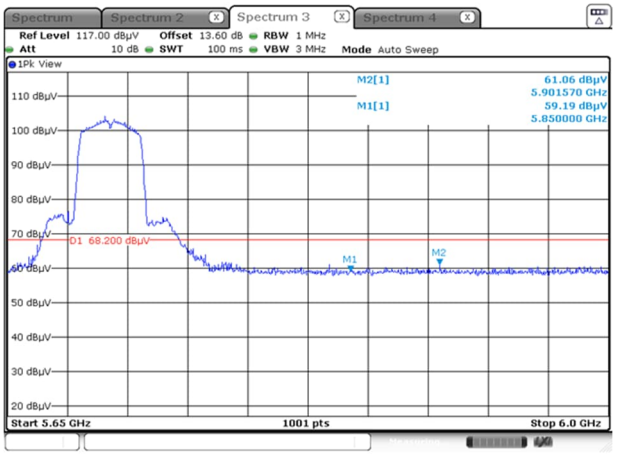
5.6GHz Band, Channel High (134)
Peak
Horizontal



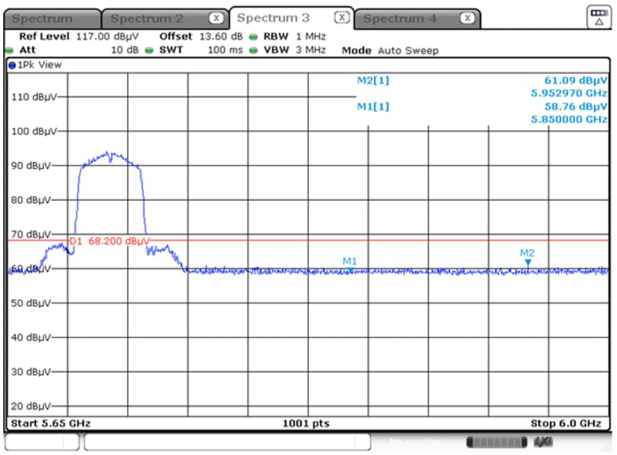
Vertical



5.6GHz Band, Channel High (142)
Peak
Horizontal

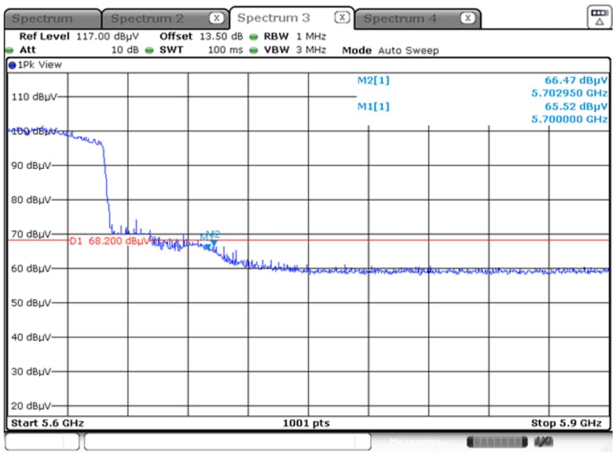


Vertical

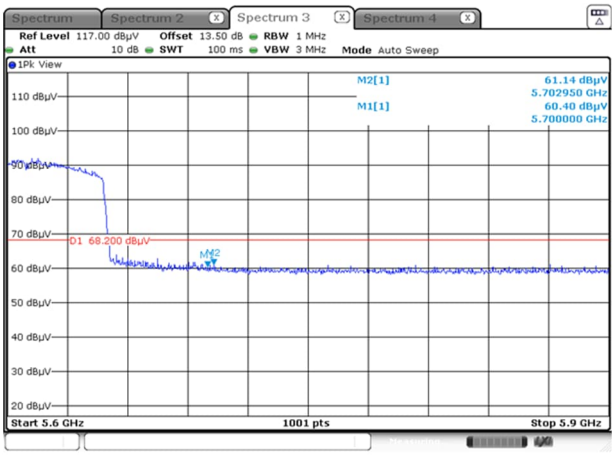


[IEEE802.11ac (VHT80)]

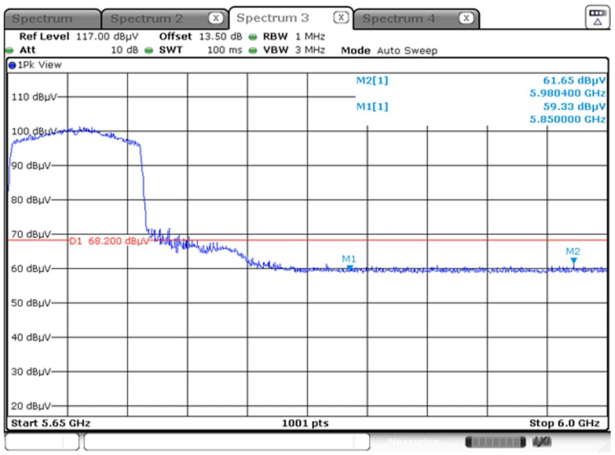
5.6 GHz Band, Channel High (122)
Peak
Horizontal



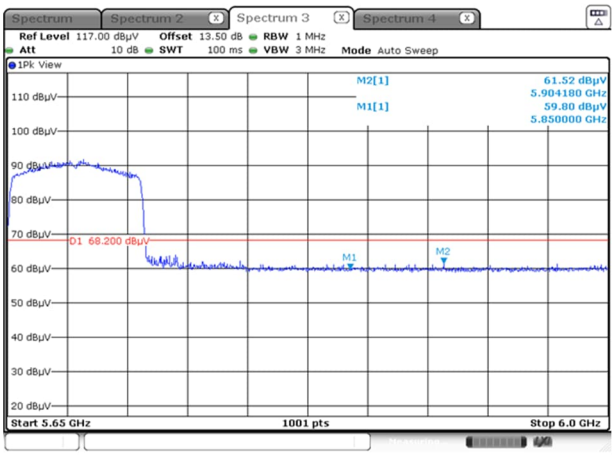
Vertical



5.6 GHz Band, Channel High (138)
Peak
Horizontal



Vertical



4.4.4.3 Radiated Emissions

Date	:	6-June-2024			
Temperature	:	20.3 [˚C]			
Humidity	:	53.3 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Tadahiro Seino

Date	:	6-7-June-2024			
Temperature	:	22.4 [˚C]			
Humidity	:	53.9 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Chiaki Kanno

Date	:	7-June-2024			
Temperature	:	21.3 [˚C]			
Humidity	:	54.1 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Tadahiro Seino

Date	:	8-June-2024			
Temperature	:	22.4 [˚C]			
Humidity	:	47.9 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Chiaki Kanno

Date	:	10-11-June-2024			
Temperature	:	23.3 [˚C]			
Humidity	:	60.3 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Chiaki Kanno

Date	:	12-June-2024			
Temperature	:	23.7 [˚C]			
Humidity	:	47.3 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Chiaki Kanno

Date	:	13-June-2024			
Temperature	:	23.8 [˚C]			
Humidity	:	47.8 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Chiaki Kanno

Date	:	25-July-2025			
Temperature	:	22.3 [˚C]			
Humidity	:	67.6 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Tadahiro Seino

EB1190EM [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	43.9	12.4		56.3	68.2	11.9
			10360.00	V	PK	43.5	12.4		55.9	68.2	12.3
	40	5200	10400.00	H	PK	44.5	12.5		57.0	68.2	11.2
			10400.00	V	PK	44.9	12.5		57.4	68.2	10.8
	48	5240	10480.00	H	PK	44.1	12.6		56.7	68.2	11.5
			10480.00	V	PK	44.2	12.6		56.8	68.2	11.4

(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	43.9	12.7		56.6	68.2	11.6
			10520.00	V	PK	44.6	12.7		57.3	68.2	10.9
	56	5280	10560.00	H	PK	44.6	12.8		57.4	68.2	10.8
			10560.00	V	PK	44.5	12.8		57.3	68.2	10.9
	64	5320	10640.00	H	PK	44.5	12.9		57.4	74.0	16.6
			10640.00	H	AV	31.6	12.9	0.137	44.6	54.0	9.4
			10640.00	V	PK	44.2	12.9		57.1	74.0	16.9
			10640.00	V	AV	32.1	12.9	0.137	45.1	54.0	8.9

(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	5469.80	H	PK	47.2	13.4		60.6	68.2	7.6
			5468.20	V	PK	48.2	13.3		61.5	68.2	6.7
			11000.00	H	PK	44.2	13.2		57.4	74.0	16.6
			11000.00	H	AV	31.3	13.2	0.137	44.6	54.0	9.4
			11000.00	V	PK	43.5	13.2		56.7	74.0	17.3
			11000.00	V	AV	31.3	13.2	0.137	44.6	54.0	9.4
	116	5580	11160.00	H	PK	44.8	13.6		58.4	74.0	15.6
			11160.00	H	AV	32.5	13.6	0.137	46.2	54.0	7.8
			11160.00	V	PK	45.1	13.6		58.7	74.0	15.3
			11160.00	V	AV	32.1	13.6	0.137	45.8	54.0	8.2
	140	5700	11400.00	H	PK	44.9	14.2		59.1	74.0	14.9
			11400.00	H	AV	31.6	14.2	0.137	45.9	54.0	8.1
			11400.00	V	PK	44.1	14.2		58.3	74.0	15.7
			11400.00	V	AV	31.7	14.2	0.137	46.0	54.0	8.0
	144	5720	11440.00	H	PK	44.2	14.2		58.4	74.0	15.6
			11440.00	H	AV	31.6	14.2	0.137	45.9	54.0	8.1
			11440.00	V	PK	43.8	14.2		58.0	74.0	16.0
			11440.00	V	AV	31.5	14.2	0.137	45.8	54.0	8.2

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.

EB1190EM [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	44.6	12.4		57.0	68.2	11.2
			10360.00	V	PK	44.5	12.4		56.9	68.2	11.3
	40	5200	10400.00	H	PK	44.7	12.5		57.2	68.2	11.0
			10400.00	V	PK	44.9	12.5		57.4	68.2	10.8
	48	5240	10480.00	H	PK	45.0	12.6		57.6	68.2	10.6
			10480.00	V	PK	44.0	12.6		56.6	68.2	11.6

(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	44.9	12.7		57.6	68.2	10.6
			10520.00	V	PK	44.5	12.7		57.2	68.2	11.0
	56	5280	10560.00	H	PK	44.2	12.8		57.0	68.2	11.2
			10560.00	V	PK	44.6	12.8		57.4	68.2	10.8
	64	5320	10640.00	H	PK	45.0	12.9		57.9	74.0	16.1
			10640.00	H	AV	32.2	12.9	0.15	45.3	54.0	8.8
			10640.00	V	PK	44.9	12.9		57.8	74.0	16.2
			10640.00	V	AV	32.2	12.9	0.15	45.3	54.0	8.8

(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)
802.11n (20MHz)	100	5500	5463.10	H	PK	52.2	13.3		65.5	68.2	2.7
			5462.80	V	PK	48.0	13.3		61.3	68.2	6.9
			11000.00	H	PK	44.4	13.2		57.6	74.0	16.4
			11000.00	H	AV	31.3	13.2	0.15	44.7	54.0	9.4
			11000.00	V	PK	43.7	13.2		56.9	74.0	17.1
			11000.00	V	AV	31.3	13.2	0.15	44.7	54.0	9.4
	116	5580	11160.00	H	PK	45.3	13.6		58.9	74.0	15.1
			11160.00	H	AV	32.5	13.6	0.15	46.3	54.0	7.8
			11160.00	V	PK	44.9	13.6		58.5	74.0	15.5
			11160.00	V	AV	32.2	13.6	0.15	46.0	54.0	8.1
	140	5700	11400.00	H	PK	44.6	14.2		58.8	74.0	15.2
			11400.00	H	AV	31.5	14.2	0.15	45.9	54.0	8.2
			11400.00	V	PK	44.1	14.2		58.3	74.0	15.7
			11400.00	V	AV	31.4	14.2	0.15	45.8	54.0	8.3
	144	5720	11440.00	H	PK	44.4	14.2		58.6	74.0	15.4
			11440.00	H	AV	31.7	14.2	0.15	46.1	54.0	8.0
			11440.00	V	PK	44.3	14.2		58.5	74.0	15.5
			11440.00	V	AV	32.1	14.2	0.15	46.5	54.0	7.6

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.

EB1190EM [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	45.2	12.4		57.6	68.2	10.6
			10380.00	V	PK	45.4	12.4		57.8	68.2	10.4
	46	5230	10460.00	H	PK	44.7	12.6		57.3	68.2	10.9
			10460.00	V	PK	44.4	12.6		57.0	68.2	11.2

(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	44.6	12.7		57.3	68.2	10.9
			10540.00	V	PK	44.5	12.7		57.2	68.2	11.0
	62	5310	10620.00	H	PK	45.0	12.8		57.8	74.0	16.2
			10620.00	H	AV	32.0	12.8	0.287	45.1	54.0	8.9
			10620.00	V	PK	44.5	12.8		57.3	74.0	16.7
			10620.00	V	AV	32.2	12.8	0.287	45.3	54.0	8.7

(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	5468.20	H	PK	54.1	13.3		67.4	68.2	0.8
			5468.90	V	PK	53.1	13.4		66.5	68.2	1.7
			11020.00	H	PK	44.2	13.3		57.5	74.0	16.5
			11020.00	H	AV	31.5	13.3	0.287	45.1	54.0	8.9
	110	5550	11020.00	V	PK	44.0	13.3		57.3	74.0	16.7
			11020.00	V	AV	31.5	13.3	0.287	45.1	54.0	8.9
			11100.00	H	PK	44.2	13.5		57.7	74.0	16.3
			11100.00	H	AV	31.7	13.5	0.287	45.5	54.0	8.5
	134	5670	11100.00	V	PK	44.1	13.5		57.6	74.0	16.4
			11100.00	V	AV	31.6	13.5	0.287	45.4	54.0	8.6
			11340.00	H	PK	44.5	14.0		58.5	74.0	15.5
			11340.00	H	AV	31.9	14.0	0.287	46.2	54.0	7.8
	142	5710	11340.00	V	PK	44.4	14.0		58.4	74.0	15.6
			11340.00	V	AV	31.8	14.0	0.287	46.1	54.0	7.9
			11420.00	H	PK	44.4	14.2		58.6	74.0	15.4
			11420.00	H	AV	31.6	14.2	0.287	46.1	54.0	7.9

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.

EB1190EM [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	44.9	12.5		57.4	68.2	10.8
			10420.00	V	PK	44.5	12.5		57.0	68.2	11.2

(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	45.0	12.8		57.8	68.2	10.4
			10580.00	V	PK	44.9	12.8		57.7	68.2	10.5

(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	5467.60	H	PK	54.2	13.3		67.5	68.2	0.7
			5463.40	V	PK	52.1	13.3		65.4	68.2	2.8
			11060.00	H	PK	44.1	13.4		57.5	74.0	16.5
			11060.00	H	AV	31.6	13.4	0.448	45.4	54.0	8.6
			11060.00	V	PK	44.0	13.4		57.4	74.0	16.6
			11060.00	V	AV	31.6	13.4	0.448	45.4	54.0	8.6
	122	5610	11220.00	H	PK	44.7	13.7		58.4	74.0	15.6
			11220.00	H	AV	32.2	13.7	0.448	46.3	54.0	7.7
			11220.00	V	PK	44.6	13.7		58.3	74.0	15.7
			11220.00	V	AV	32.1	13.7	0.448	46.2	54.0	7.8
	138	5690	11380.00	H	PK	44.4	14.1		58.5	74.0	15.5
			11380.00	H	AV	31.8	14.1	0.448	46.3	54.0	7.7
			11380.00	V	PK	44.1	14.1		58.2	74.0	15.8
			11380.00	V	AV	32.0	14.1	0.448	46.5	54.0	7.5

EB1207 [IEEE802.11ac (VHT80)]
(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	5467.60	H	PK	54.3	13.3		67.6	68.2	0.6
			5463.40	V	PK	52.5	13.3		65.8	68.2	2.4
			11060.00	H	PK	42.9	13.4		56.3	74.0	17.7
			11060.00	H	AV	29.0	13.4	0.448	42.8	54.0	11.2
			11060.00	V	PK	42.9	13.4		56.3	74.0	17.7
			11060.00	V	AV	28.8	13.4	0.448	42.6	54.0	11.4

The table above confirms that the difference in test results is less than 3 dB.

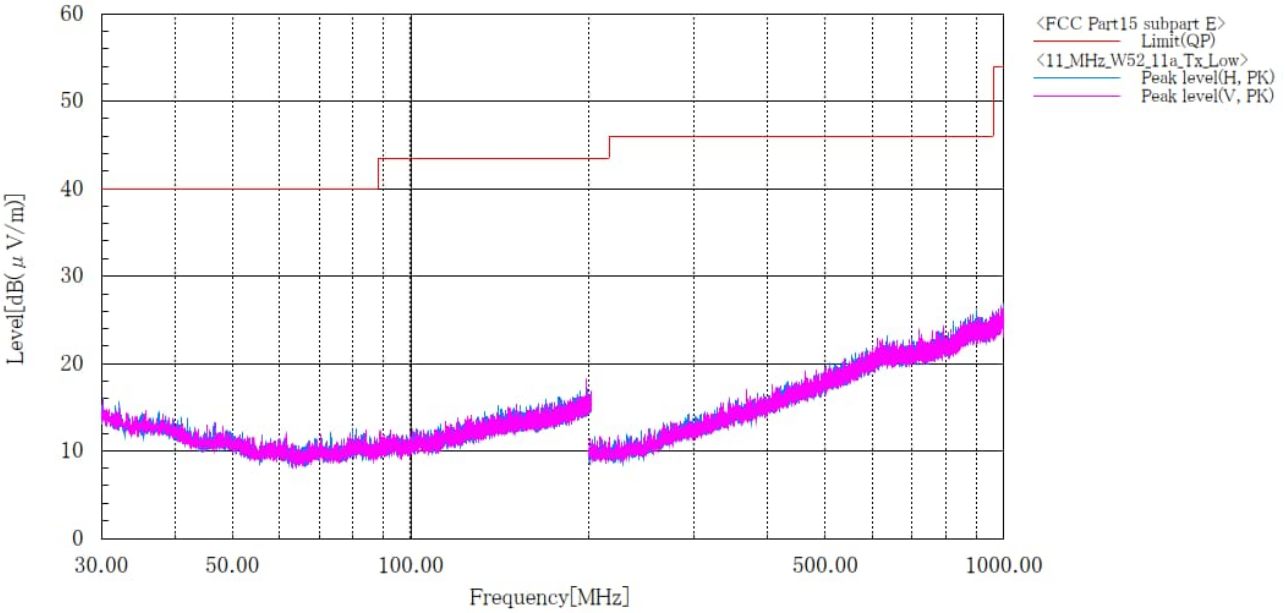
Note:
1. Emission Level (Margin) = Limit - [Reading + C.F (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 30 MHz to 1000 MHz at the 3 meters distance.
3. No emission was detected in the receive mode.

4.4.4.4 Measurement chart

Transmission mode

EB1190EM [11a]
5.2 GHz Band / Channel Low
BELOW 1GHz(Worst)

Company name	: KYOCERA Corporation	Sheet No.	: 11
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 20.3 [° C], 53.3 [%]
Test mode	: WLAN_W52_11a_Tx_CH:Low	Note1	: CH:36(5180MHz)

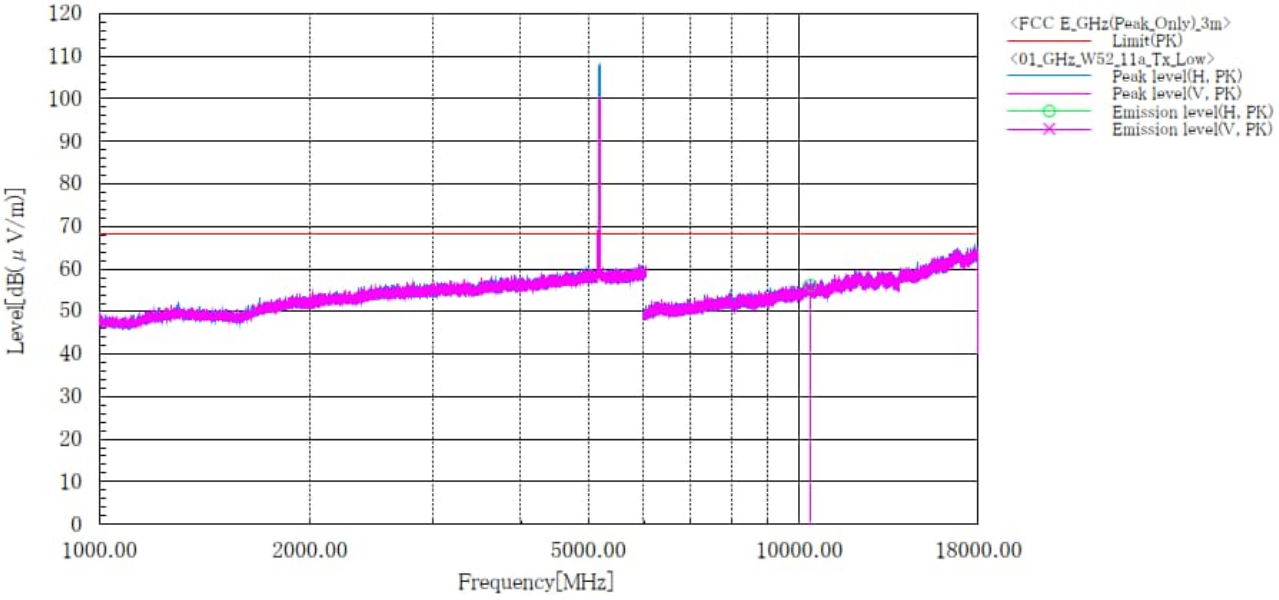


Final Result

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.

EB1190EM [11a]
5.2 GHz Band / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 01
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 21.3 [° C], 54.1 [%]
Test mode	: WLAN W52_11a_Tx	Note1	: CH:36 (5180MHz)



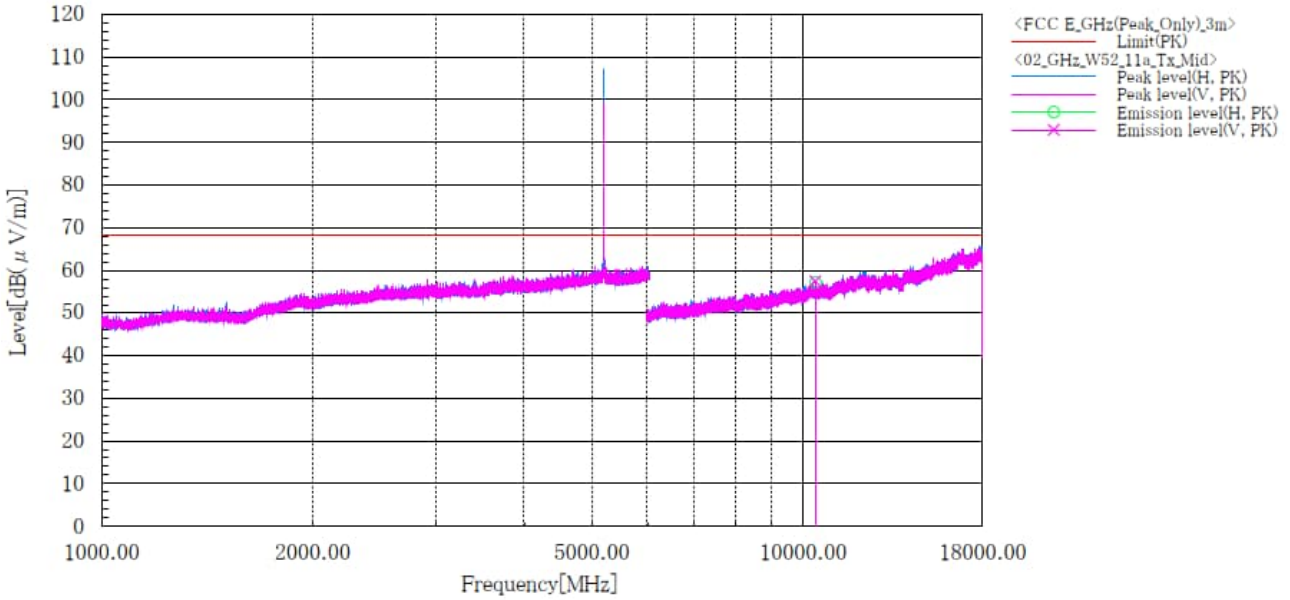
Final Result

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]
1	10360.000	H	43.9	12.4	56.3	68.2	11.9	100.0	171.0
2	10360.000	V	43.5	12.4	55.9	68.2	12.3	110.0	83.0

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.

EB1190EM [11a]
5.2 GHz Band / Channel Middle
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 02
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 22.4 [° C], 47.9 [%]
Test mode	: WLAN W52_11a_Tx	Note1	: CH:40 (5200MHz)



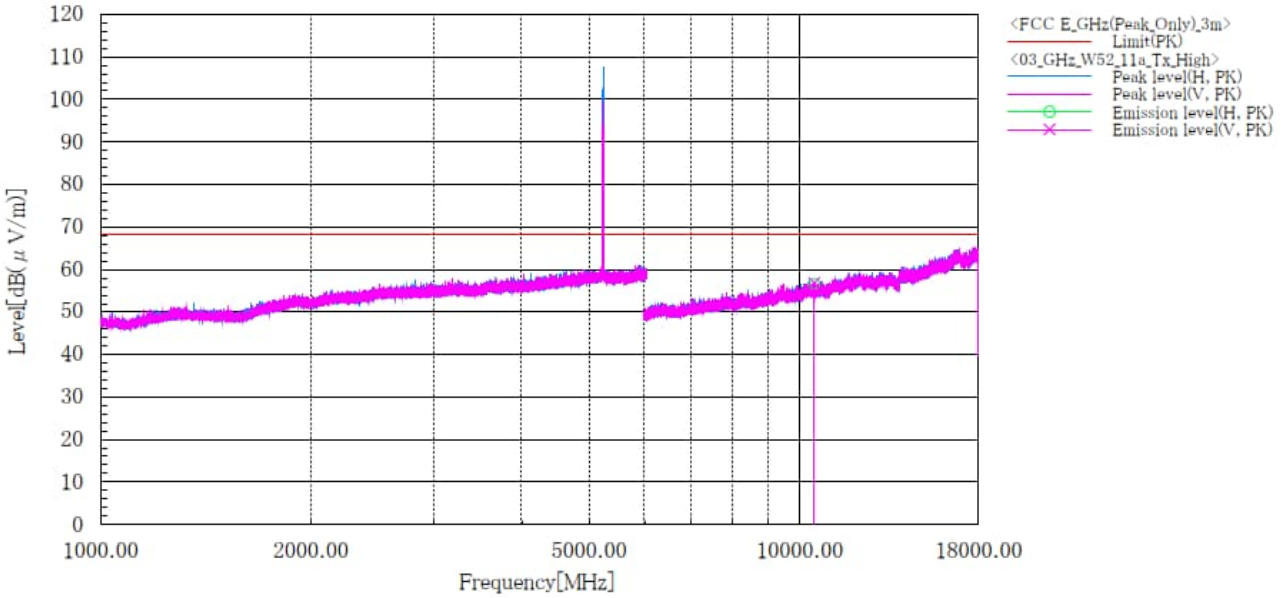
Final Result

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]
1	10400.000	H	44.5	12.5	57.0	68.2	11.2	100.0	145.0
2	10400.000	V	44.9	12.5	57.4	68.2	10.8	121.0	134.0

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.

EB1190EM [11a]
5.2 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 03
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 22.4 [° C], 47.9 [%]
Test mode	: WLAN W52_11a_Tx	Note1	: CH:48 (5240MHz)



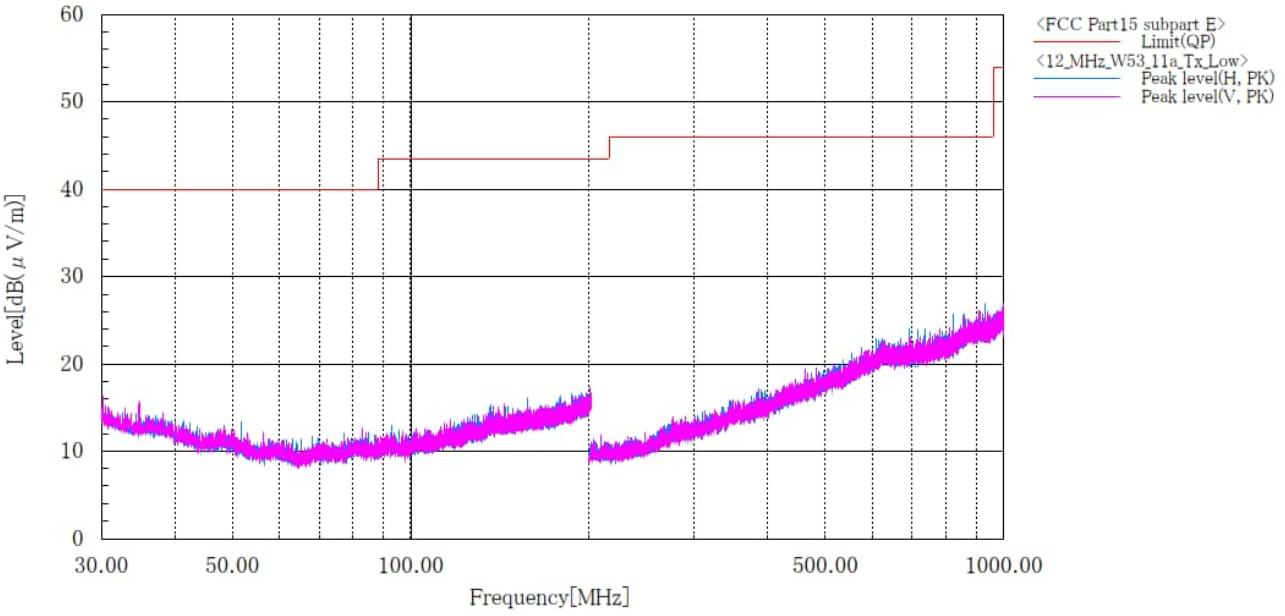
Final Result

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]
1	10480.000	H	44.1	12.6	56.7	68.2	11.5	100.0	174.0
2	10480.000	V	44.2	12.6	56.8	68.2	11.4	115.0	136.0

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.

EB1190EM [11a]
5.3 GHz Band / Channel Low
BELOW 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 12
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 20.3 [° C], 53.8 [%]
Test mode	: WLAN_W53_11a_Tx_CH:Low	Note1	: CH:52(5260MHz)

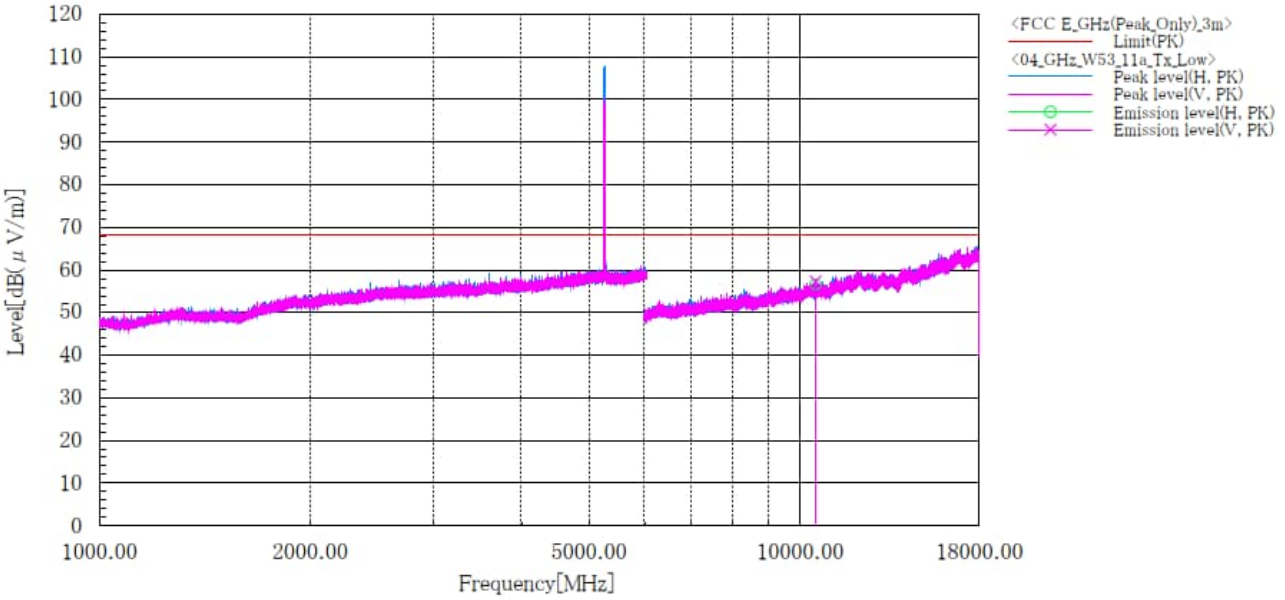


Final Result

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.

EB1190EM [11a]
5.3 GHz Band / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 04
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 22.4 [° C], 47.9 [%]
Test mode	: WLAN W53_11a_Tx	Note1	: CH:52 (5260MHz)



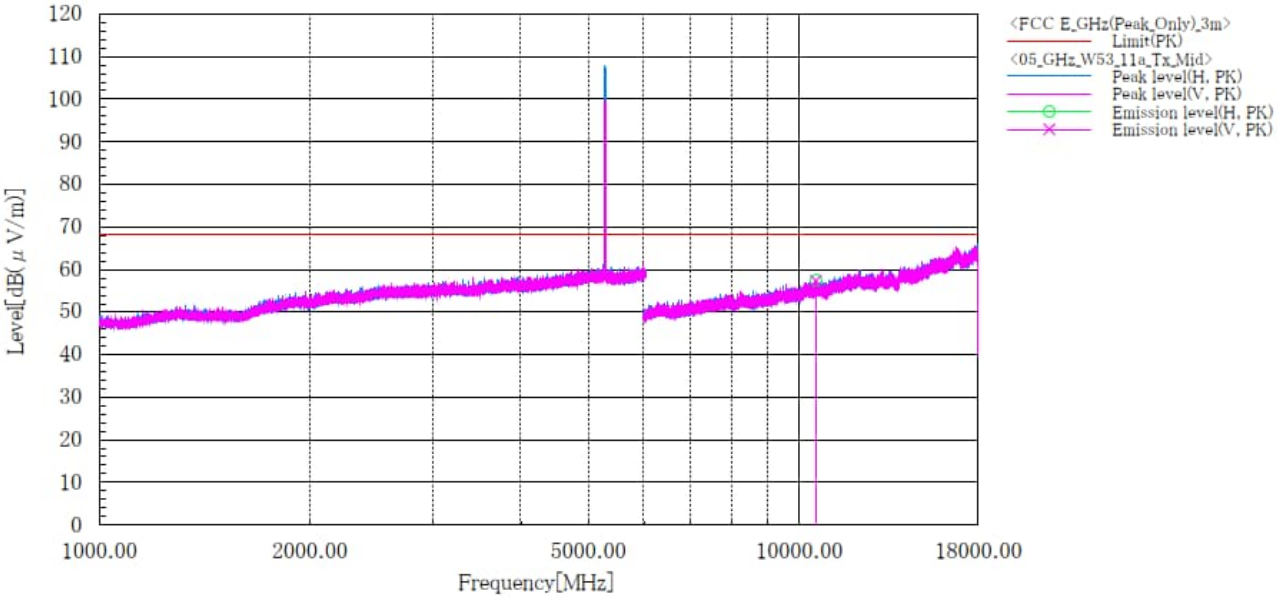
Final Result

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]
1	10520.000	H	43.9	12.7	56.6	68.2	11.6	100.0	203.0
2	10520.000	V	44.6	12.7	57.3	68.2	10.9	131.0	134.0

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.

EB1190EM [11a]
5.3 GHz Band / Channel Middle
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 05
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 22.4 [° C], 47.9 [%]
Test mode	: WLAN W53_11a_Tx	Note1	: CH:56 (5280MHz)



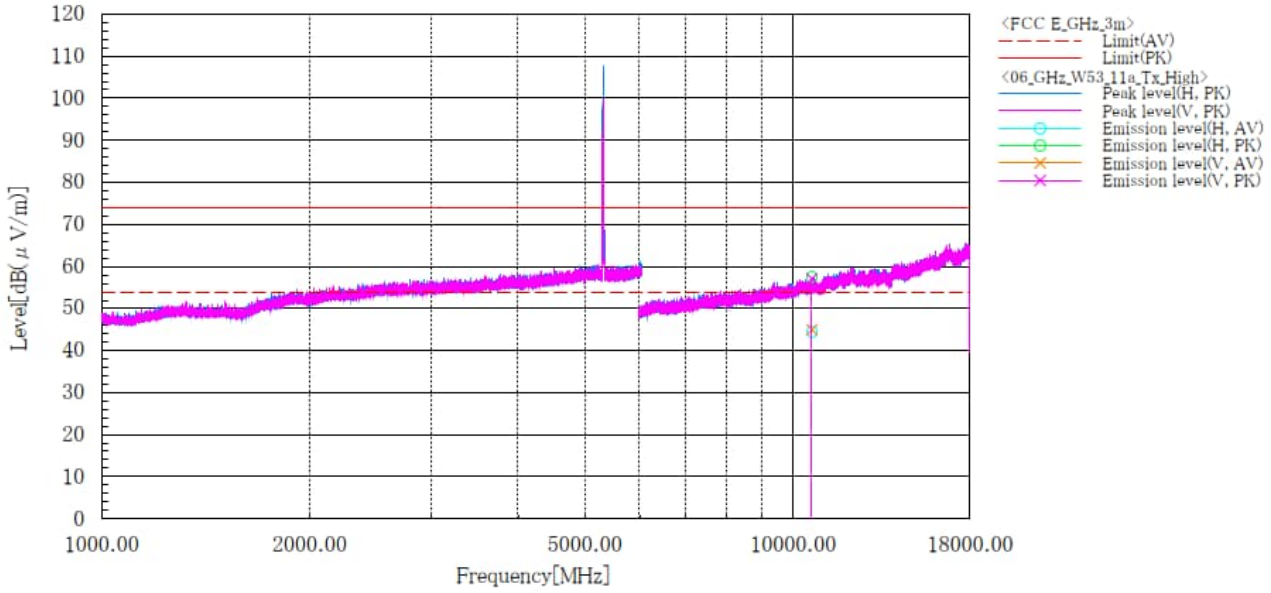
Final Result

No.	Frequency	Pol	Reading PK	c.f	Result PK	Limit PK	Margin PK	Height	Angle
	[MHz]		[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[deg]
1	10560.000	H	44.6	12.8	57.4	68.2	10.8	142.0	168.0
2	10560.000	V	44.5	12.8	57.3	68.2	10.9	126.0	137.0

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.

EB1190EM [11a]
5.3 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 06
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 22.4 [° C], 47.9 [%]
Test mode	: WLAN W53_11a_Tx	Note1	: CH:64 (5320MHz)



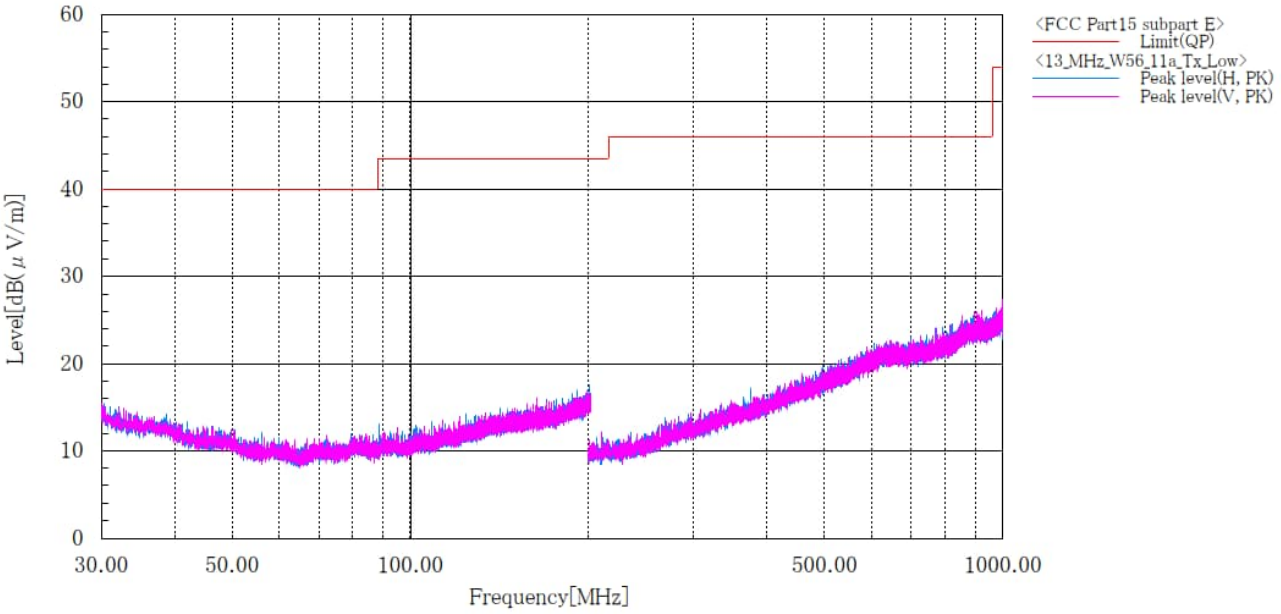
Final Result

No.	Frequency	Pol	Reading AV	Reading PK	c.f	Result AV	Result PK	Limit AV	Limit PK	Margin AV	Margin PK	Height	Angle
	[MHz]		[dB(μV)]	[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[dB]	[cm]	[deg]
1	10640.000	H	31.6	44.5	12.9	44.5	57.4	54.0	74.0	9.5	16.6	128.0	197.0
2	10640.000	V	32.1	44.2	12.9	45.0	57.1	54.0	74.0	9.0	16.9	119.0	156.0

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.

EB1190EM [11a]
5.6 GHz Band / Channel Low
BELOW 1GHz(Worst)

Company name	: KYOCERA Corporation	Sheet No.	: 13
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 20.3 [° C], 53.8 [%]
Test mode	: WLAN_W56_11a_Tx_CH:Low	Note1	: CH:100(5500MHz)

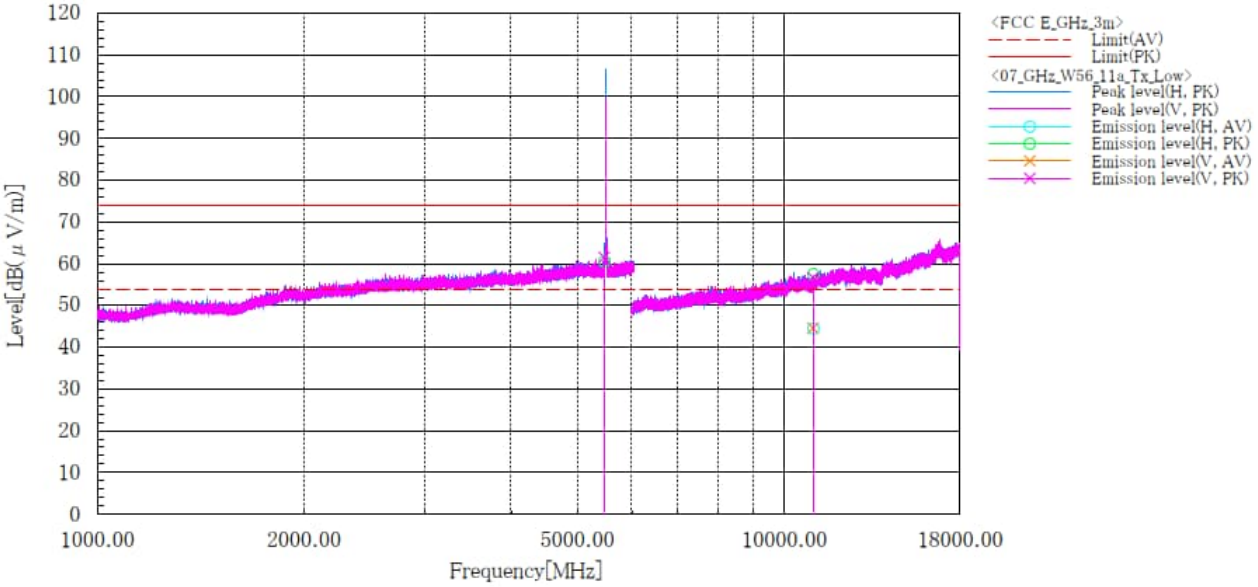


Final Result

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.

EB1190EM [11a]
5.6 GHz Band / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 07
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.3 [° C], 60.3 [%]
Test mode	: WLAN W56_11a_Tx	Note1	: CH:100 (5500MHz)



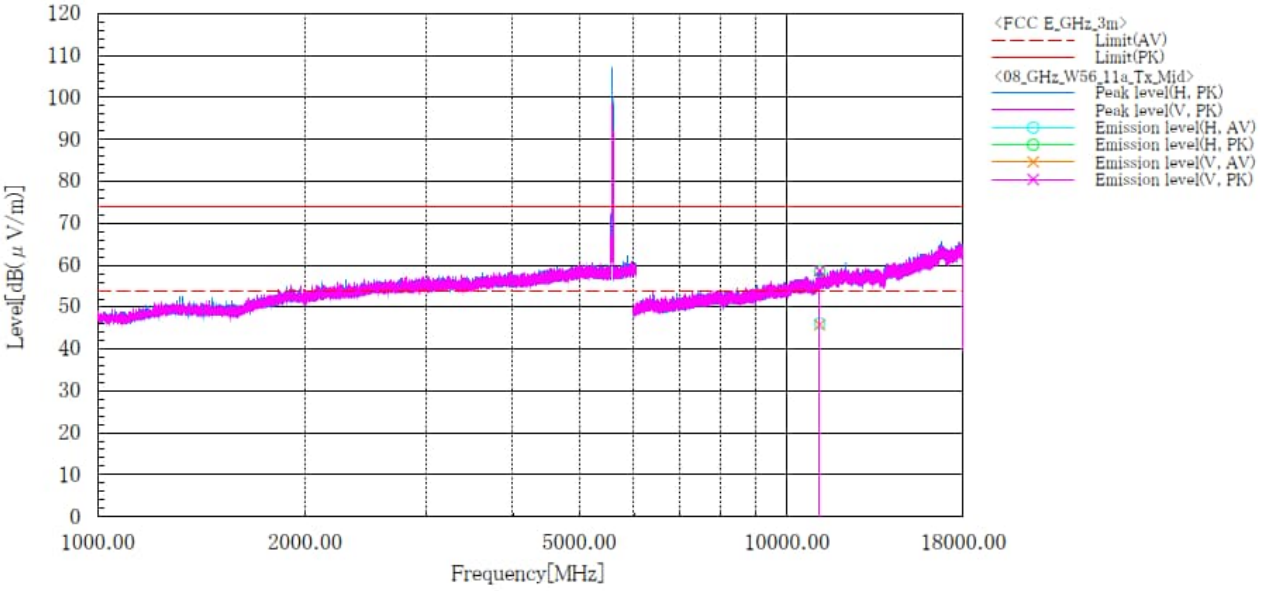
Final Result

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]
1	5469.800	H	--------	47.2	13.4	----------	60.6	----------	68.2	--------	7.6	153.0	351.0
2	5468.200	V	--------	48.2	13.3	----------	61.5	----------	68.2	--------	6.7	173.0	16.0
3	11000.000	H	31.3	44.2	13.2	44.5	57.4	54.0	74.0	9.5	16.6	124.0	194.0
4	11000.000	V	31.3	43.5	13.2	44.5	56.7	54.0	74.0	9.5	17.3	168.0	159.0

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.

EB1190EM [11a]
5.6 GHz Band / Channel Middle
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 08
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.3 [° C], 60.3 [%]
Test mode	: WLAN W56_11a_Tx	Note1	: CH:116 (5580MHz)



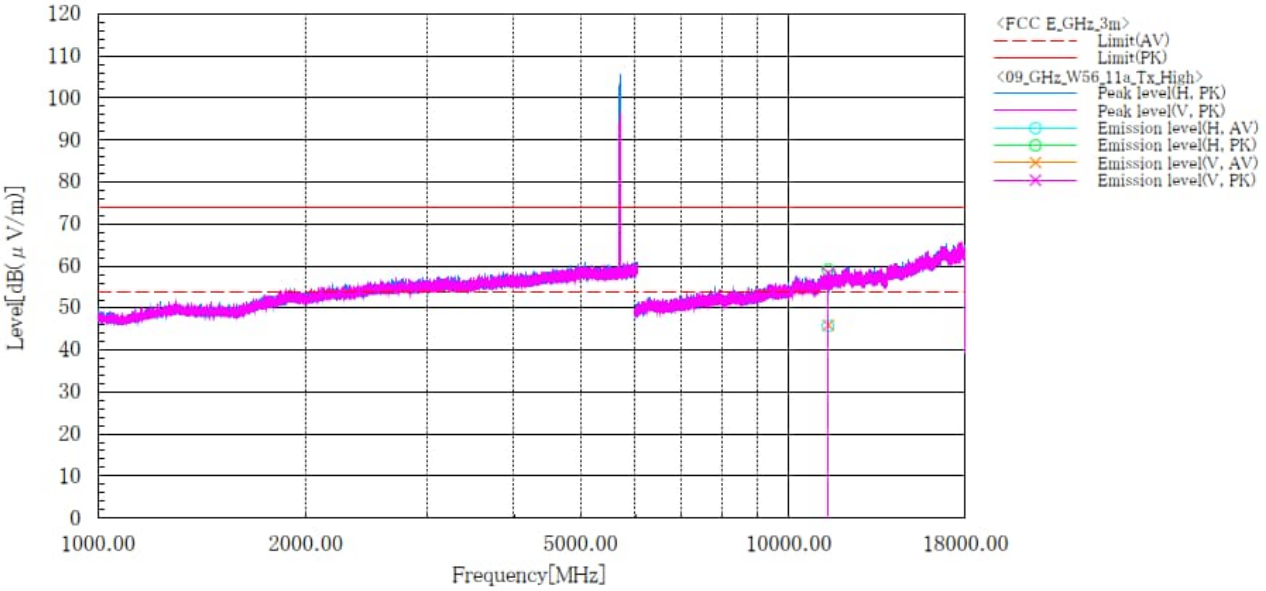
Final Result

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]
1	11160.000	H	32.5	44.8	13.6	46.1	58.4	54.0	74.0	7.9	15.6	115.0	178.0
2	11160.000	V	32.1	45.1	13.6	45.7	58.7	54.0	74.0	8.3	15.3	176.0	188.0

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.

EB1190EM [11a]
5.6 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 09
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.3 [° C], 60.3 [%]
Test mode	: WLAN W56_11a_Tx	Note1	: CH:140 (5700MHz)



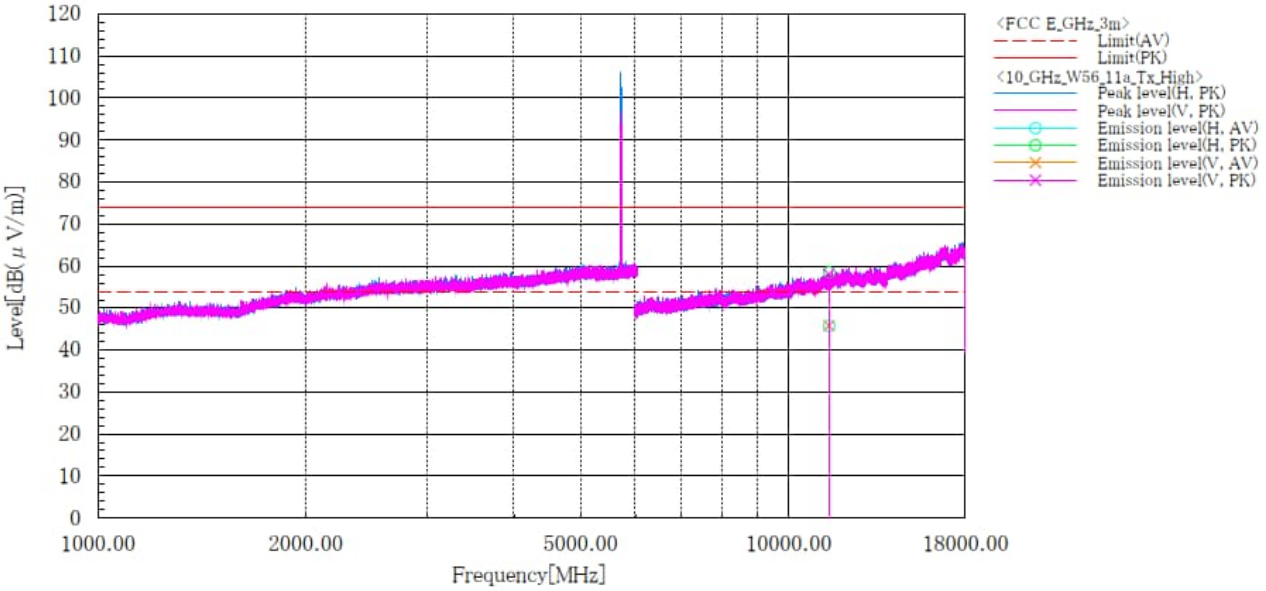
Final Result

No.	Frequency	Pol	Reading AV	Reading PK	c.f	Result AV	Result PK	Limit AV	Limit PK	Margin AV	Margin PK	Height	Angle
	[MHz]		[dB(μV)]	[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[dB]	[cm]	[deg]
1	11400.000	H	31.6	44.9	14.2	45.8	59.1	54.0	74.0	8.2	14.9	108.0	206.0
2	11400.000	V	31.7	44.1	14.2	45.9	58.3	54.0	74.0	8.1	15.7	135.0	358.0

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.

EB1190EM [11a]
5.6 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 10
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.3 [° C], 60.3 [%]
Test mode	: WLAN W56_11a_Tx	Note1	: CH:144 (5720MHz)



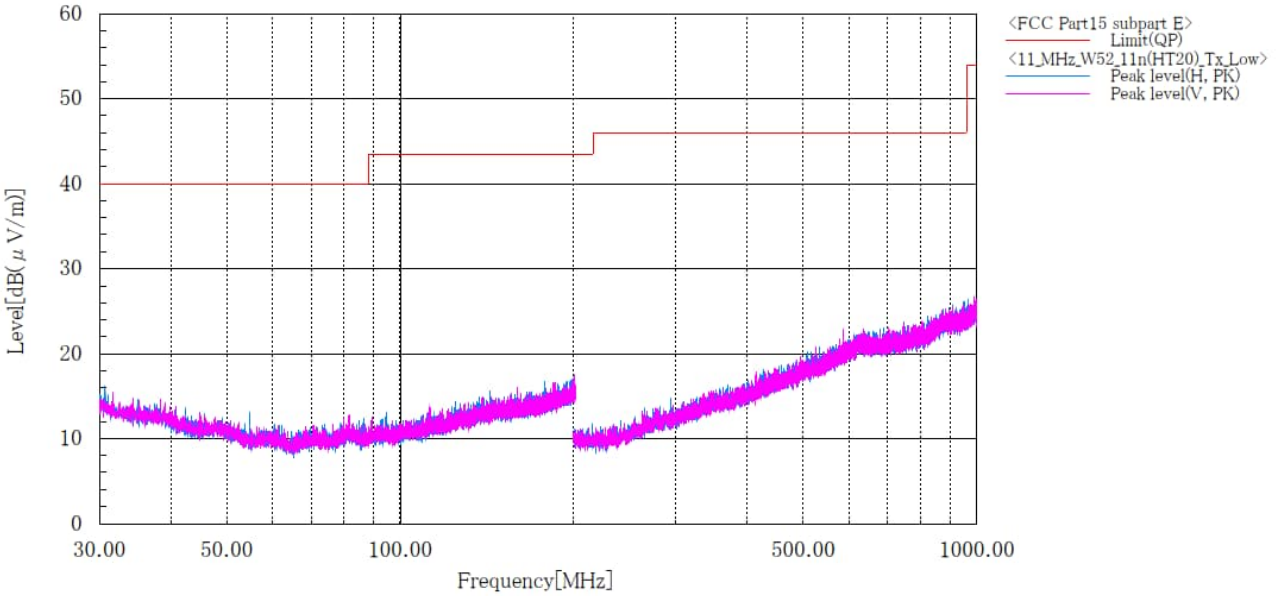
Final Result

No.	Frequency	Pol	Reading AV	Reading PK	c.f	Result AV	Result PK	Limit AV	Limit PK	Margin AV	Margin PK	Height	Angle
	[MHz]		[dB(μV)]	[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[dB]	[cm]	[deg]
1	11440.000	H	31.6	44.2	14.2	45.8	58.4	54.0	74.0	8.2	15.6	110.0	181.0
2	11440.000	V	31.5	43.8	14.2	45.7	58.0	54.0	74.0	8.3	16.0	178.0	181.0

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.

EB1190EM [11n(HT20)]
5.2 GHz Band / Channel Low
BELOW 1GHz(Worst)

Company name	: KYOCERA Corporation	Sheet No.	: 11
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 20.3 [° C], 53.8 [%]
Test mode	: WLAN_W52_11n(HT20)_Tx_CH:Low	Note1	: CH:36(5180MHz)

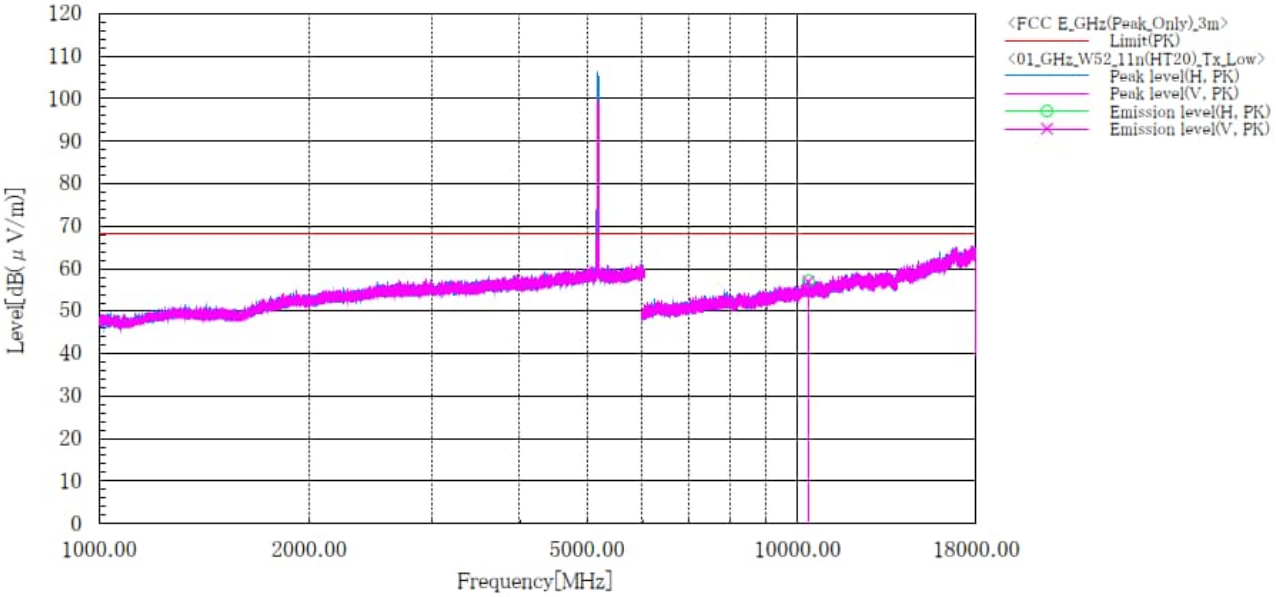


Final Result

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.

EB1190EM [11n(HT20)]
5.2 GHz Band / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 01
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.3 [° C], 60.3 [%]
Test mode	: WLAN W52_11n(HT20)_Tx	Note1	: CH:36 (5180MHz)



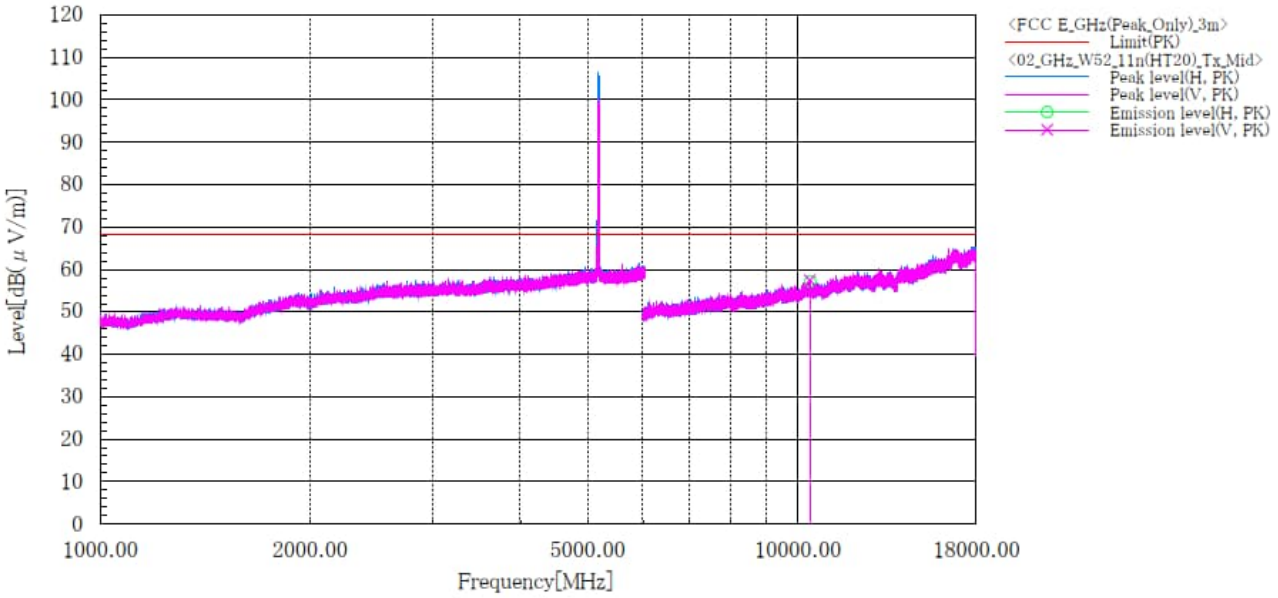
Final Result

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]
1	10360.000	H	44.6	12.4	57.0	68.2	11.2	100.0	171.0
2	10360.000	V	44.5	12.4	56.9	68.2	11.3	115.0	85.0

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.

EB1190EM [11n(HT20)]
5.2 GHz Band / Channel Middle
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 02
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.3 [° C], 60.3 [%]
Test mode	: WLAN W52_11n(HT20)_Tx	Note1	: CH:40 (5200MHz)



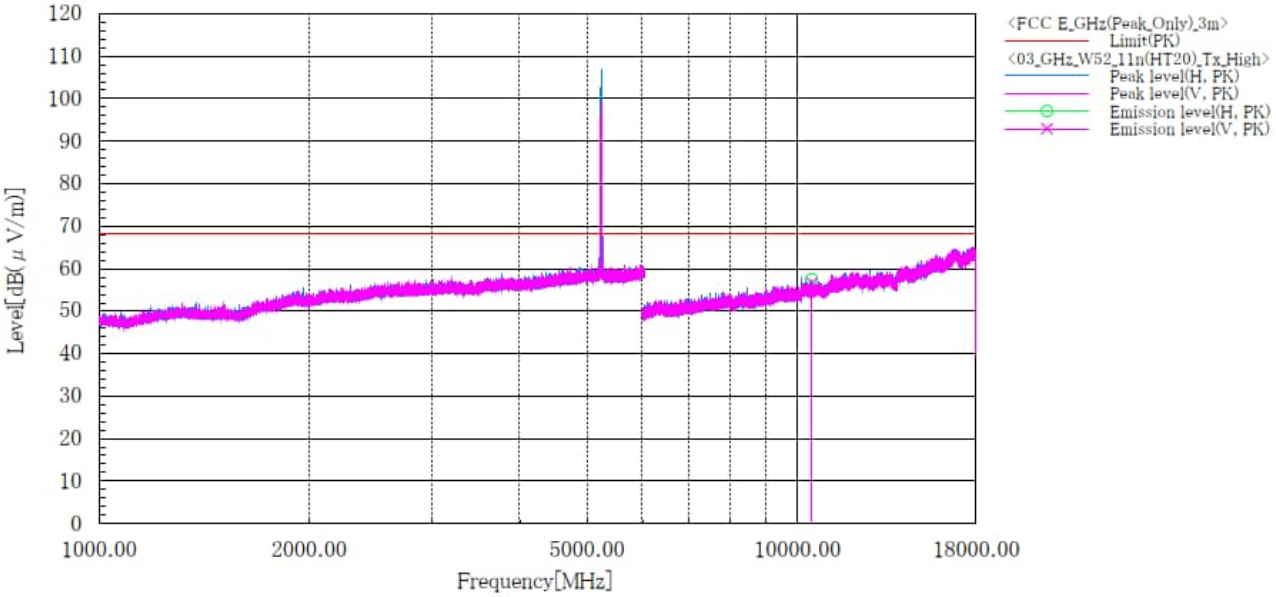
Final Result

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]
1	10400.000	H	44.7	12.5	57.2	68.2	11.0	128.0	190.0
2	10400.000	V	44.9	12.5	57.4	68.2	10.8	100.0	86.0

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.

EB1190EM [11n(HT20)]
5.2 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 03
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.3 [° C], 60.3 [%]
Test mode	: WLAN W52_11n(HT20)_Tx	Note1	: CH:48 (5240MHz)



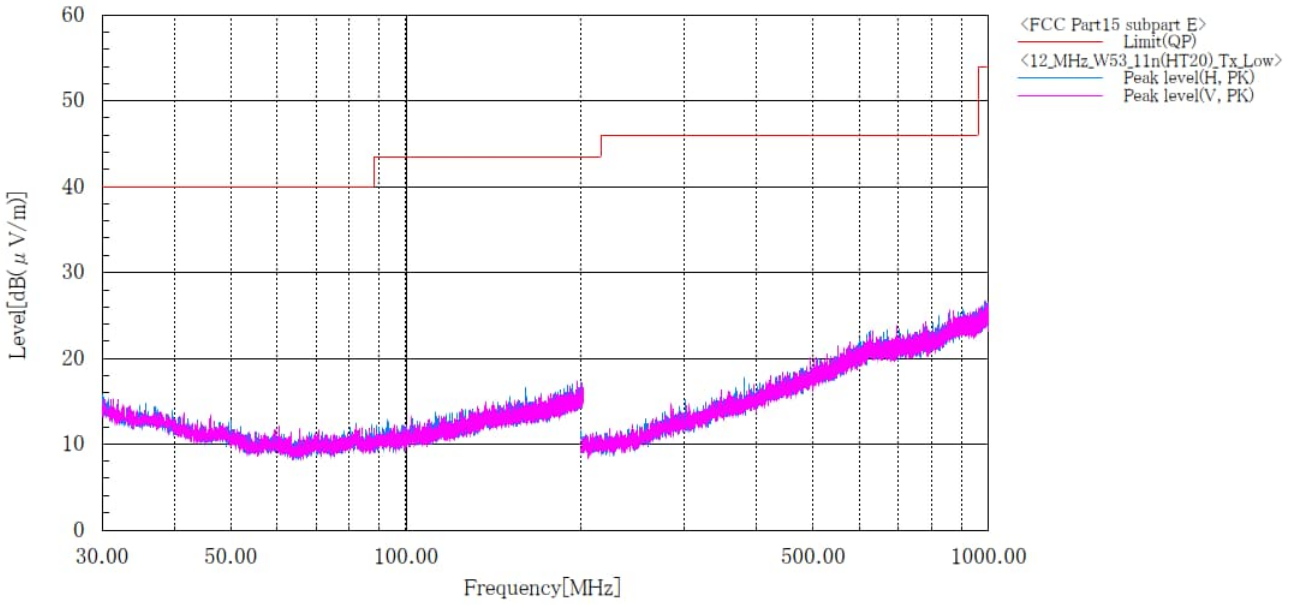
Final Result

No.	Frequency	Pol	Reading PK	c.f	Result PK	Limit PK	Margin PK	Height	Angle
	[MHz]		[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[cm]	[deg]
1	10480.000	H	45.0	12.6	57.6	68.2	10.6	122.0	159.0
2	10480.000	V	44.0	12.6	56.6	68.2	11.6	178.0	71.0

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.

EB1190EM [11n(HT20)]
5.3 GHz Band / Channel Low
BELOW 1GHz(Worst)

Company name	: KYOCERA Corporation	Sheet No.	: 12
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 20.3 [° C], 53.8 [%]
Test mode	: WLAN_W53_11n(HT20)_Tx_CH:Low	Note1	: CH:52(5260MHz)

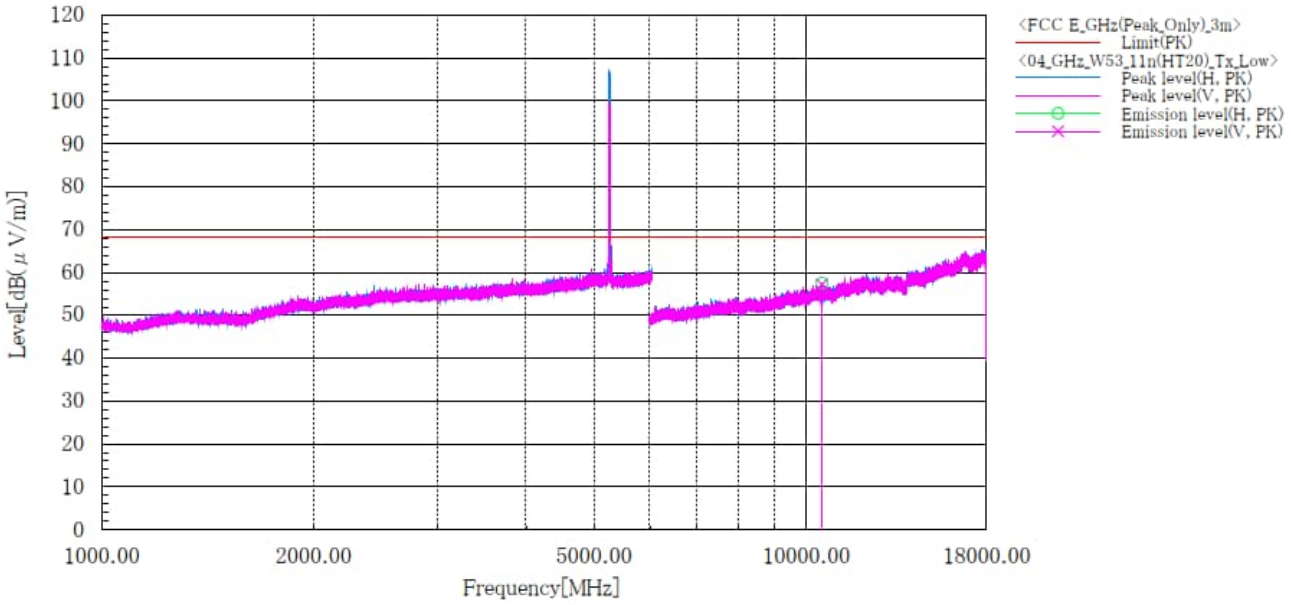


Final Result

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.

EB1190EM [11n(HT20)]
5.3 GHz Band / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 04
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.3 [° C], 60.3 [%]
Test mode	: WLAN W53_11n(HT20)_Tx	Note1	: CH:52 (5260MHz)



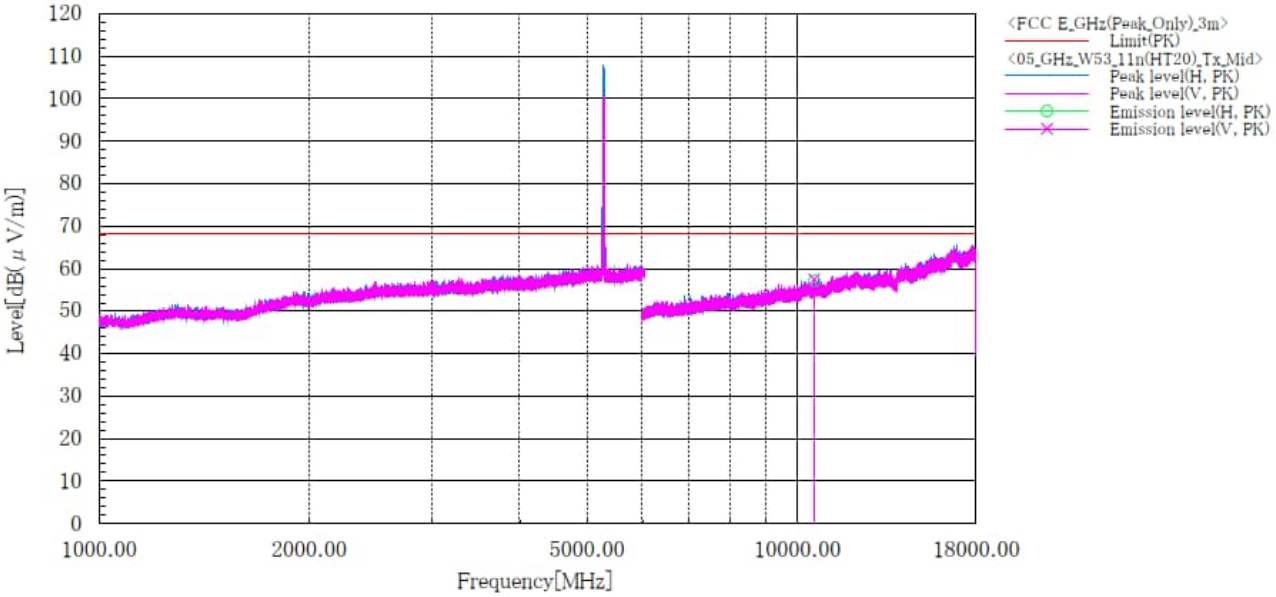
Final Result

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]
1	10520.000	H	44.9	12.7	57.6	68.2	10.6	111.0	167.0
2	10520.000	V	44.5	12.7	57.2	68.2	11.0	135.0	343.0

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.

EB1190EM [11n(HT20)]
5.3 GHz Band / Channel Middle
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 05
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.3 [° C], 60.3 [%]
Test mode	: WLAN W53_11n(HT20)_Tx	Note1	: CH:56 (5280MHz)



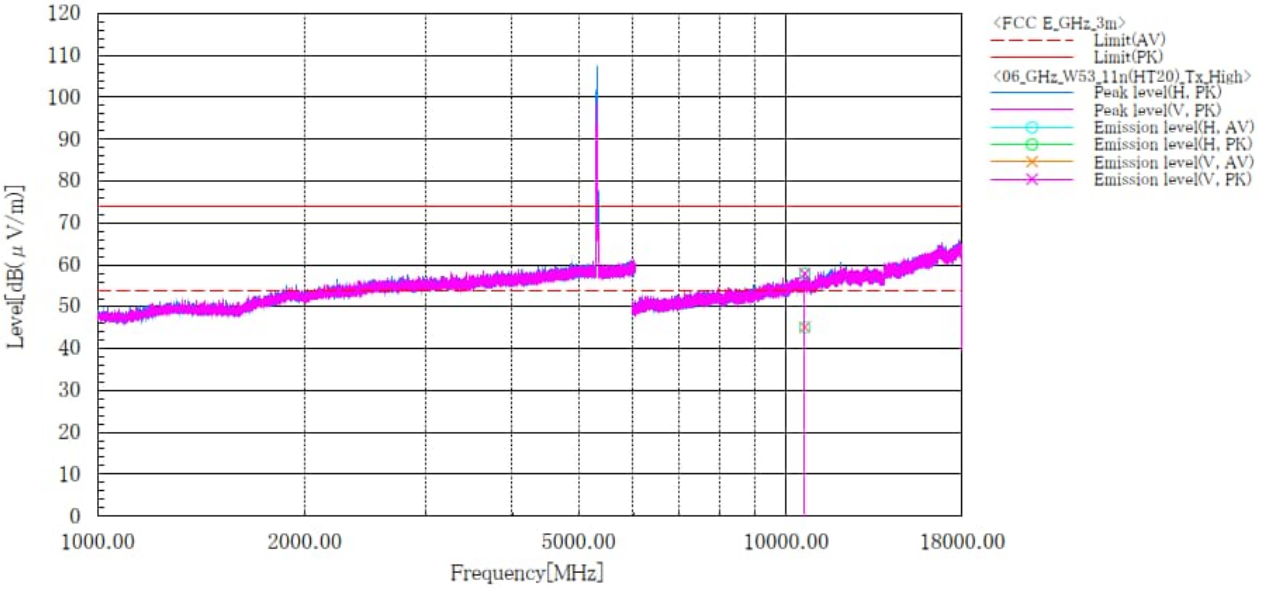
Final Result

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]
1	10560.000	H	44.2	12.8	57.0	68.2	11.2	108.0	181.0
2	10560.000	V	44.6	12.8	57.4	68.2	10.8	128.0	134.0

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.

EB1190EM [11n(HT20)]
5.3 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 06
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.7 [° C], 47.3 [%]
Test mode	: WLAN W53_11n(HT20)_Tx	Note1	: CH:64 (5320MHz)



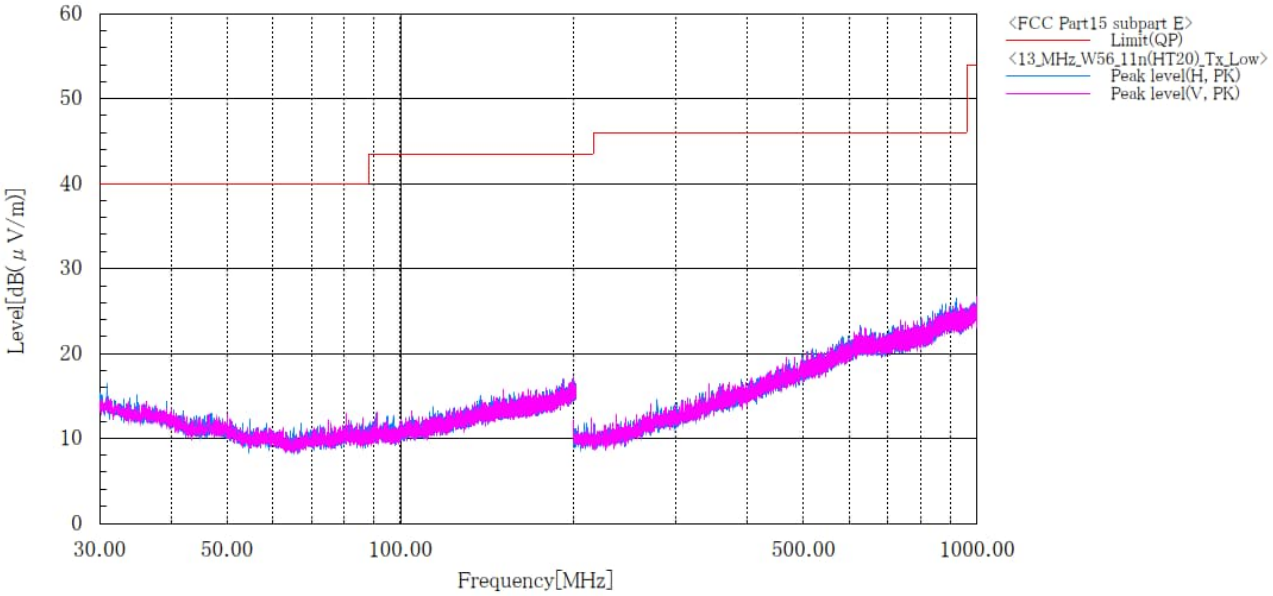
Final Result

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]
1	10640.000	H	32.2	45.0	12.9	45.1	57.9	54.0	74.0	8.9	16.1	115.0	193.0
2	10640.000	V	32.2	44.9	12.9	45.1	57.8	54.0	74.0	8.9	16.2	100.0	14.0

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.

EB1190EM [11n(HT20)]
5.6 GHz Band / Channel Low
BELOW 1GHz(Worst)

Company name	: KYOCERA Corporation	Sheet No.	: 13
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 20.3 [° C], 53.8 [%]
Test mode	: WLAN_W56_11n(HT20)_Tx_CH:Low	Note1	: CH:100(5500MHz)

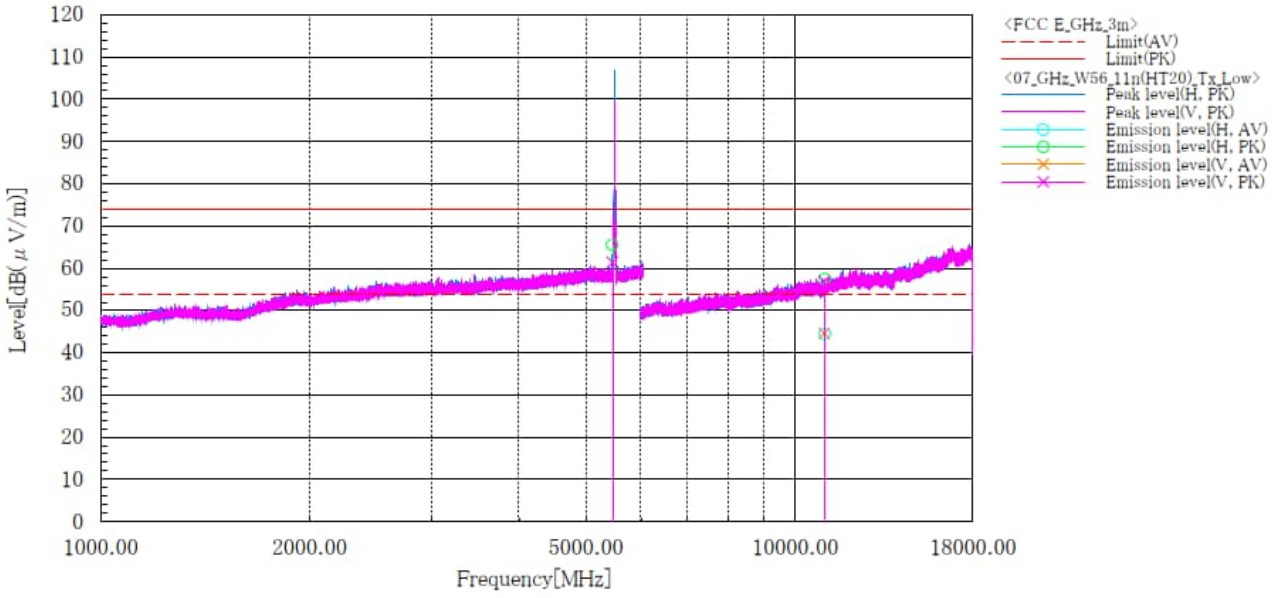


Final Result

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.

EB1190EM [11n(HT20)]
5.6 GHz Band / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 07
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.7 [° C], 47.3 [%]
Test mode	: WLAN W56_11n(HT20)_Tx	Note1	: CH:100 (5500MHz)



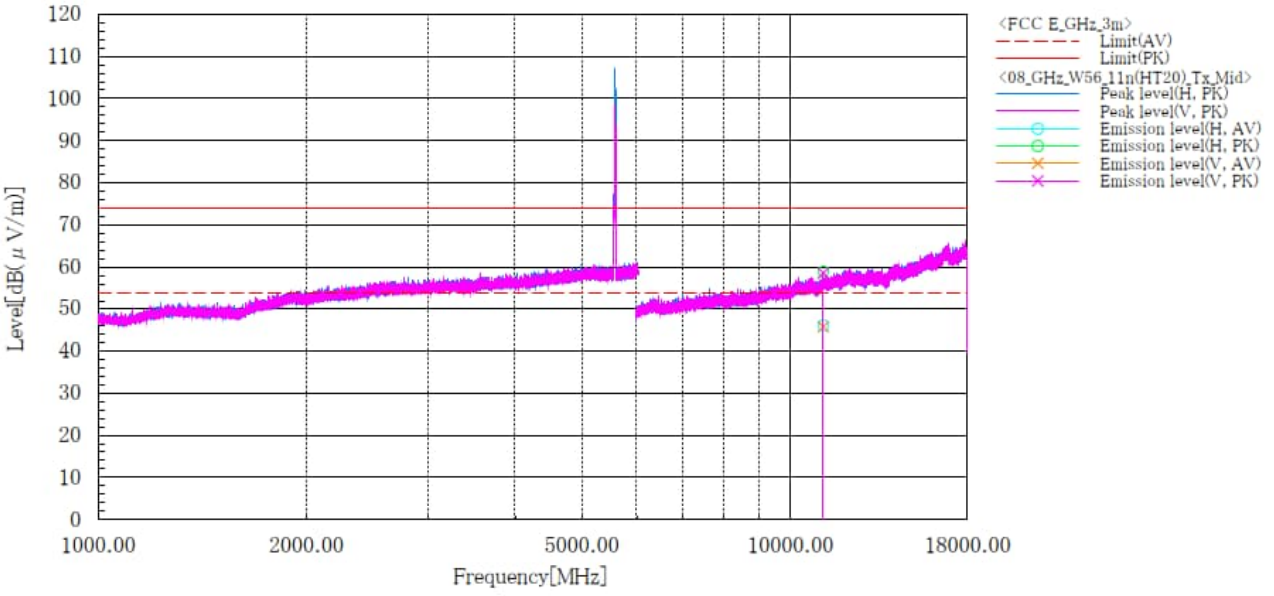
Final Result

No.	Frequency	Pol	Reading AV	Reading PK	c.f	Result AV	Result PK	Limit AV	Limit PK	Margin AV	Margin PK	Height	Angle
	[MHz]		[dB(μV)]	[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[dB]	[cm]	[deg]
1	5463.100	H	---------	52.2	13.3	----------	65.5	----------	68.2	--------	2.7	100.0	194.0
2	5462.800	V	---------	48.0	13.3	----------	61.3	----------	68.2	--------	6.9	148.0	194.0
3	11000.000	H	31.3	44.4	13.2	44.5	57.6	54.0	74.0	9.5	16.4	100.0	194.0
4	11000.000	V	31.3	43.7	13.2	44.5	56.9	54.0	74.0	9.5	17.1	175.0	194.0

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.

EB1190EM [11n(HT20)]
5.6 GHz Band / Channel Middle
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 08
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.7 [° C], 47.3 [%]
Test mode	: WLAN W56_11n(HT20)_Tx	Note1	: CH:116 (5580MHz)



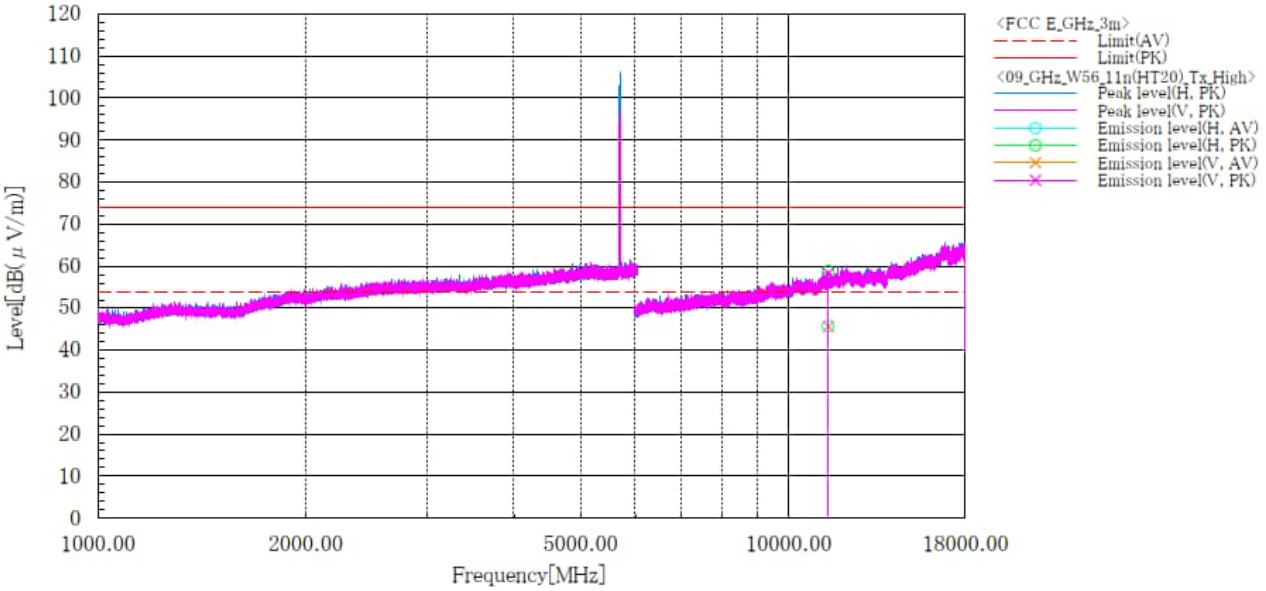
Final Result

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]
1	11160.000	H	32.5	45.3	13.6	46.1	58.9	54.0	74.0	7.9	15.1	129.0	184.0
2	11160.000	V	32.2	44.9	13.6	45.8	58.5	54.0	74.0	8.2	15.5	169.0	130.0

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.

EB1190EM [11n(HT20)]
5.6 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 09
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.7 [° C], 47.3 [%]
Test mode	: WLAN W56_11n(HT20)_Tx	Note1	: CH:140 (5700MHz)



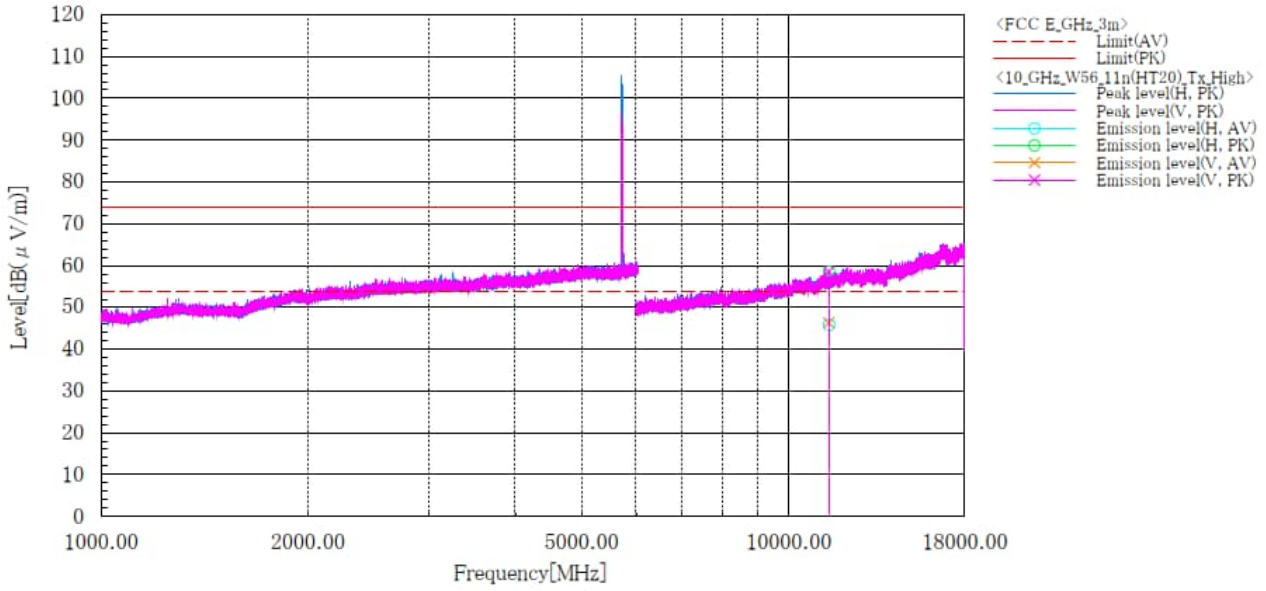
Final Result

No.	Frequency	Pol	Reading AV	Reading PK	c.f	Result AV	Result PK	Limit AV	Limit PK	Margin AV	Margin PK	Height	Angle
	[MHz]		[dB(μV)]	[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[dB]	[cm]	[deg]
1	11400.000	H	31.5	44.6	14.2	45.7	58.8	54.0	74.0	8.3	15.2	122.0	191.0
2	11400.000	V	31.4	44.1	14.2	45.6	58.3	54.0	74.0	8.4	15.7	179.0	191.0

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.

EB1190EM [11n(HT20)]
5.6 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 10
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.7 [° C], 47.3 [%]
Test mode	: WLAN W56_11n(HT20)_Tx	Note1	: CH:144 (5720MHz)



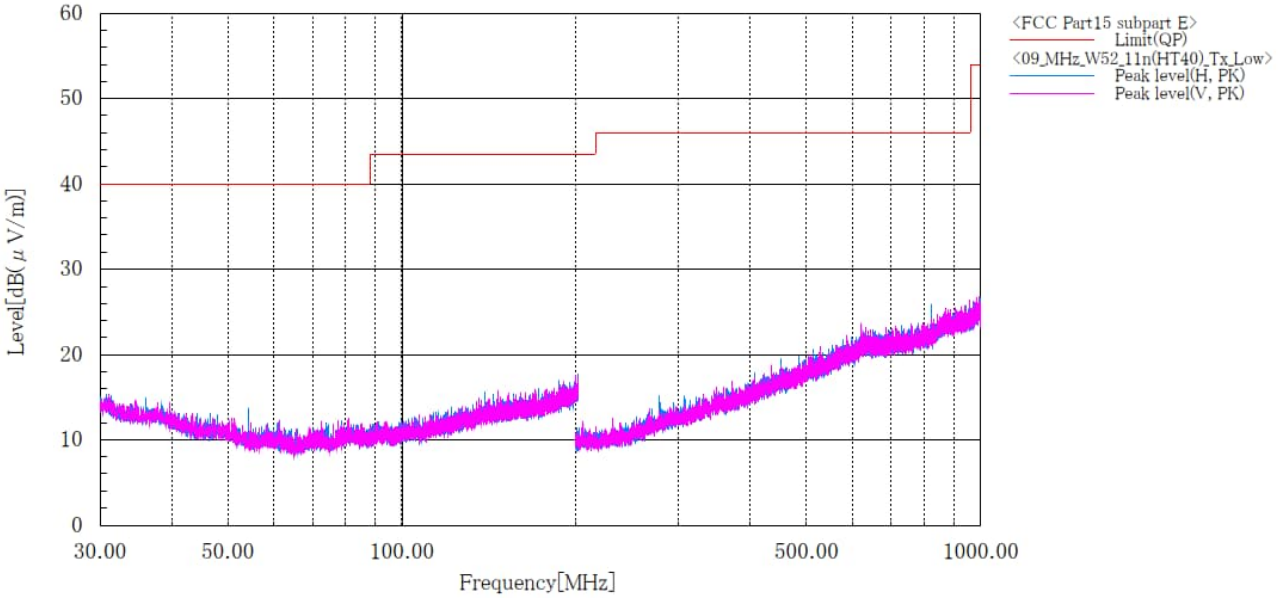
Final Result

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]
1	11440.000	H	31.7	44.4	14.2	45.9	58.6	54.0	74.0	8.1	15.4	105.0	177.0
2	11440.000	V	32.1	44.3	14.2	46.3	58.5	54.0	74.0	7.7	15.5	167.0	203.0

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.

EB1190EM [11n(HT40)]
5.2 GHz Band / Channel Low
BELOW 1GHz(Worst)

Company name	: KYOCERA Corporation	Sheet No.	: 09
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 20.3 [° C], 53.8 [%]
Test mode	: WLAN_W52_11n(HT40)_Tx_CH:Low	Note1	: CH:38(5190MHz)

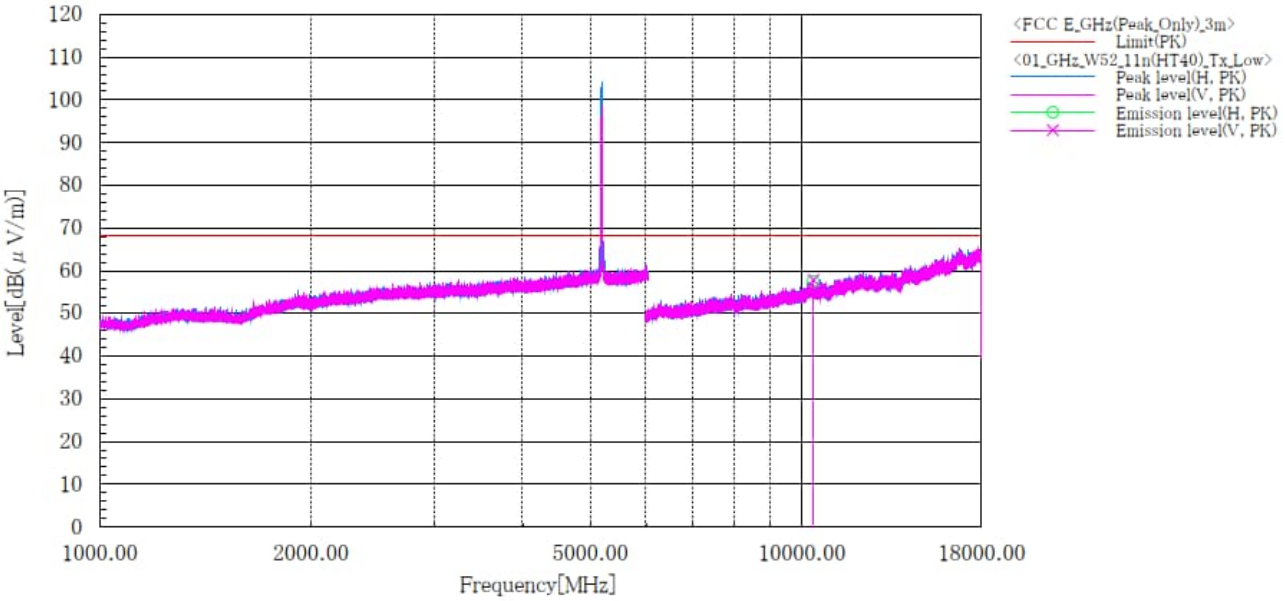


Final Result

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.

EB1190EM [11n(HT40)]
5.2 GHz Band / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 01
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.7 [° C], 47.3 [%]
Test mode	: WLAN W52_11n(HT40)_Tx	Note1	: CH:38 (5190MHz)



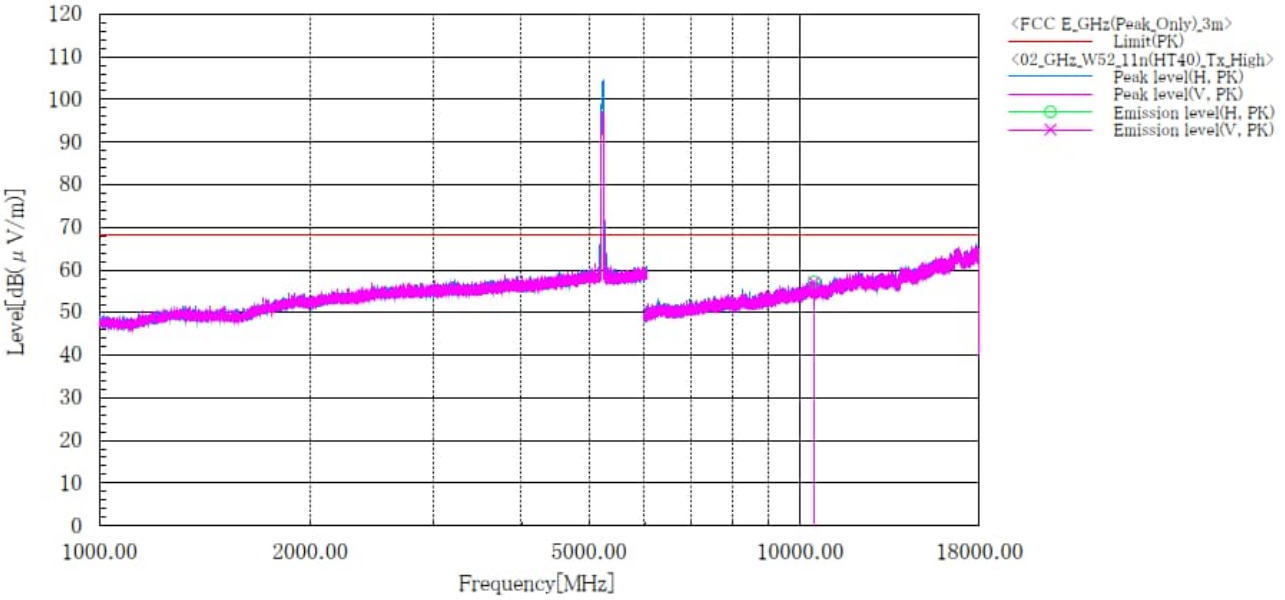
Final Result

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]
1	10380.000	H	45.2	12.4	57.6	68.2	10.6	135.0	168.0
2	10380.000	V	45.4	12.4	57.8	68.2	10.4	142.0	94.0

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.

EB1190EM [11n(HT40)]
5.2 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 02
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.7 [° C], 47.3 [%]
Test mode	: WLAN W52_11n(HT40)_Tx	Note1	: CH:46 (5230MHz)



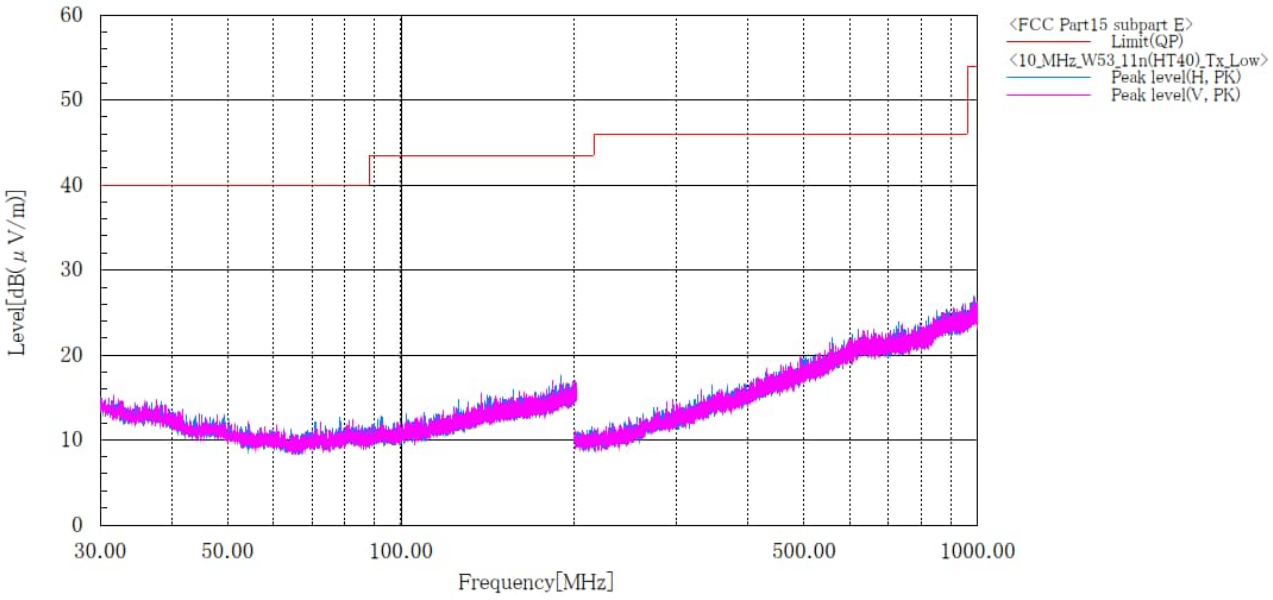
Final Result

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]
1	10460.000	H	44.7	12.6	57.3	68.2	10.9	119.0	172.0
2	10460.000	V	44.4	12.6	57.0	68.2	11.2	181.0	144.0

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.

EB1190EM [11n(HT40)]
5.3 GHz Band / Channel Low
BELOW 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 10
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 20.3 [° C], 53.8 [%]
Test mode	: WLAN_W53_11n(HT40)_Tx_CH:Low	Note1	: CH:54(5270MHz)

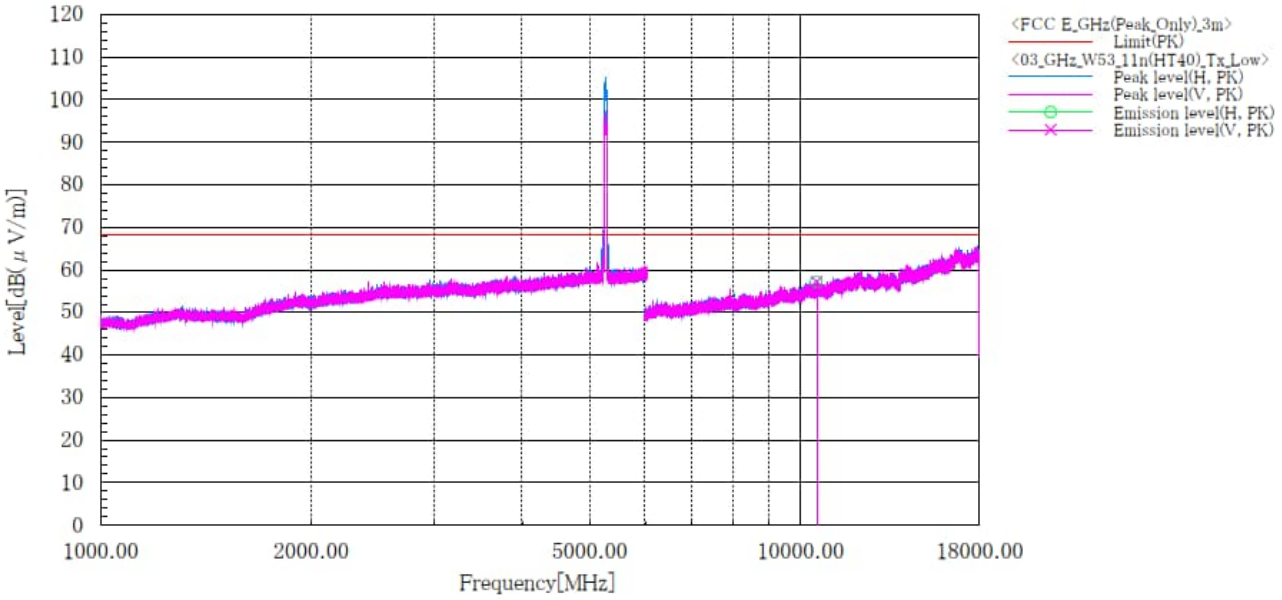


Final Result

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.

EB1190EM [11n(HT40)]
5.3 GHz Band / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 03
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.7 [° C], 47.3 [%]
Test mode	: WLAN W53_11n(HT40)_Tx	Note1	: CH:54 (5270MHz)



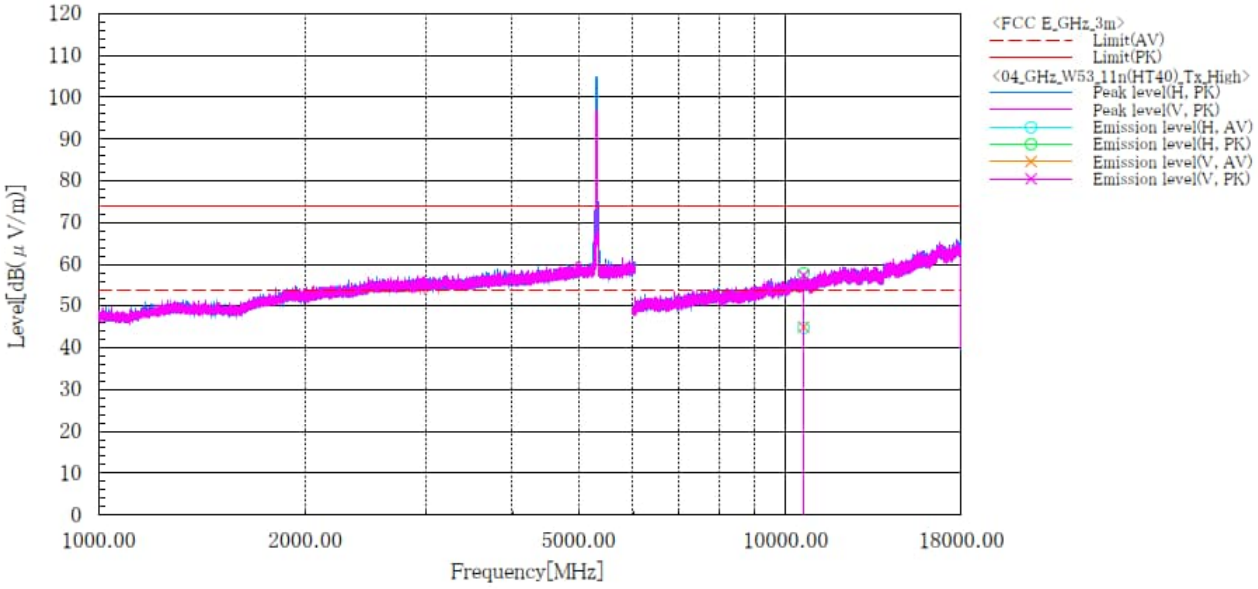
Final Result

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]
1	10540.000	H	44.6	12.7	57.3	68.2	10.9	106.0	190.0
2	10540.000	V	44.5	12.7	57.2	68.2	11.0	136.0	5.0

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.

EB1190EM [11n(HT40)]
5.3 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 04
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.7 [° C], 47.3 [%]
Test mode	: WLAN W53_11n(HT40)_Tx	Note1	: CH:62 (5310MHz)



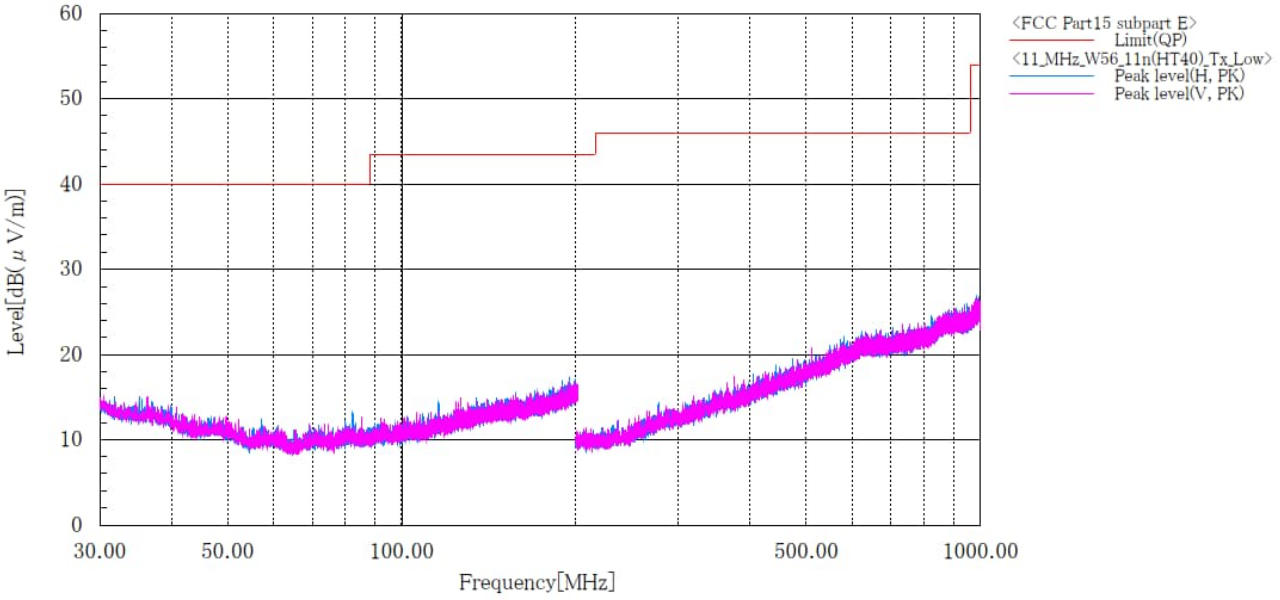
Final Result

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]
1	10620.000	H	32.0	45.0	12.8	44.8	57.8	54.0	74.0	9.2	16.2	122.0	187.0
2	10620.000	V	32.2	44.5	12.8	45.0	57.3	54.0	74.0	9.0	16.7	141.0	156.0

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.

EB1190EM [11n(HT40)]
5.6 GHz Band / Channel Low
BELOW 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 11
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 20.3 [° C], 53.8 [%]
Test mode	: WLAN_W56_11n(HT40)_Tx_CH:Low	Note1	: CH:102(5510MHz)

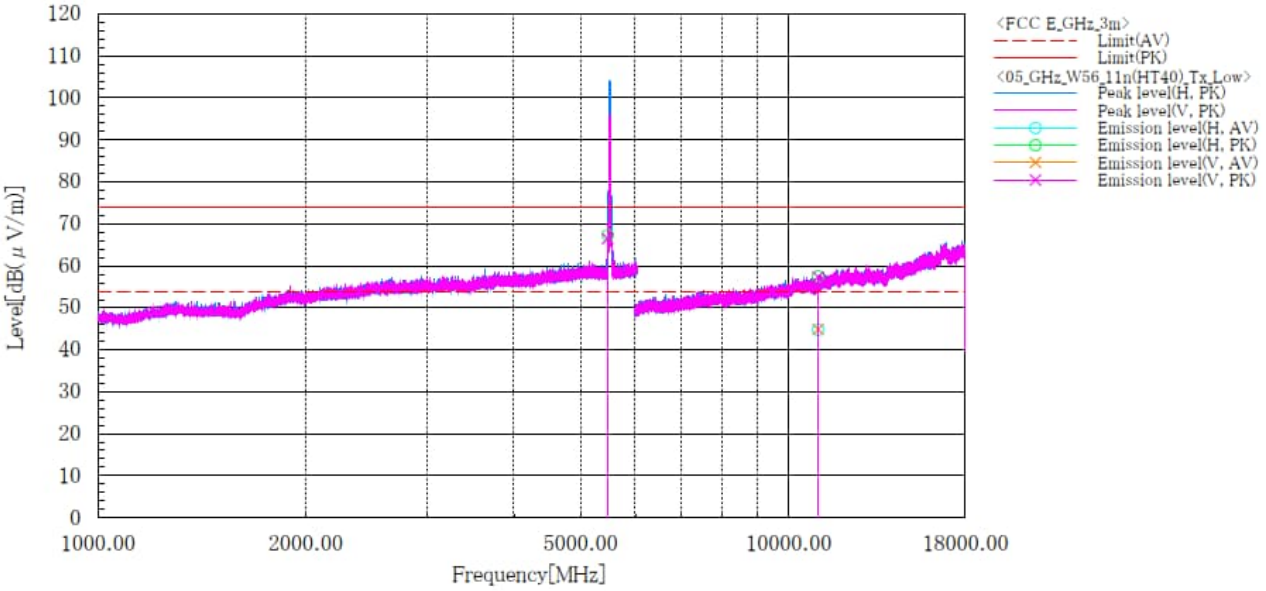


Final Result

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.

EB1190EM [11n(HT40)]
5.6 GHz Band / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 05
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.7 [° C], 47.3 [%]
Test mode	: WLAN W56_11n(HT40)_Tx	Note1	: CH:102 (5510MHz)



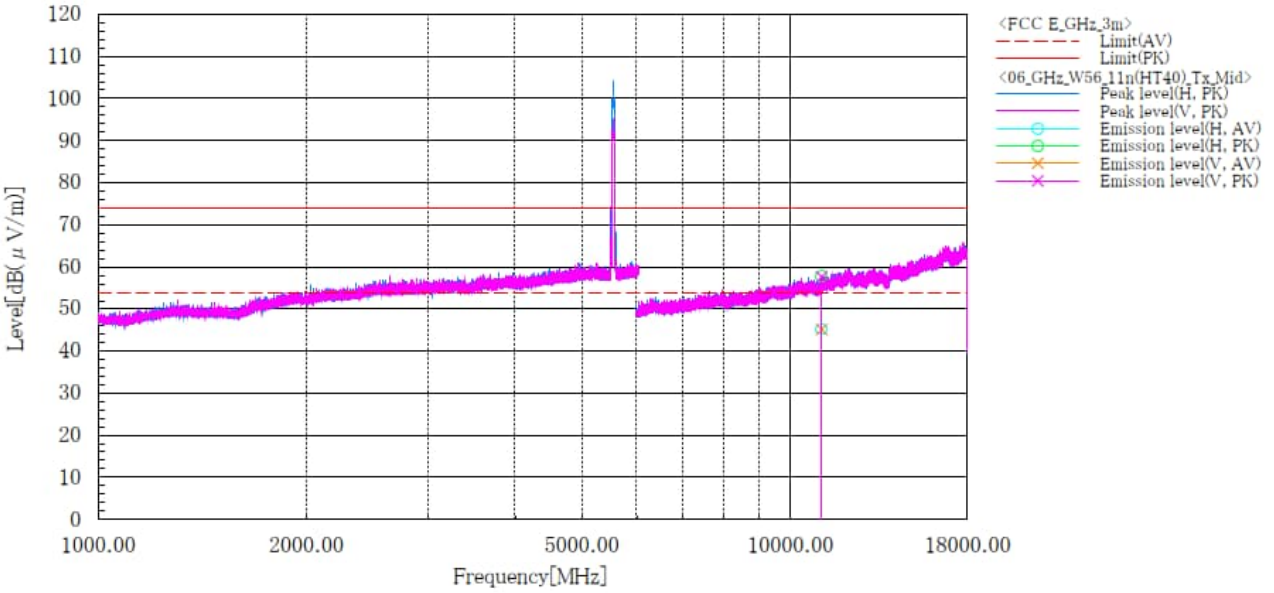
Final Result

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]
1	5468.200	H	---------	54.1	13.3	----------	67.4	----------	68.2	--------	0.8	100.0	194.0
2	5468.900	V	---------	53.1	13.4	----------	66.5	----------	68.2	--------	1.7	100.0	13.0
3	11020.000	H	31.5	44.2	13.3	44.8	57.5	54.0	74.0	9.2	16.5	100.0	195.0
4	11020.000	V	31.5	44.0	13.3	44.8	57.3	54.0	74.0	9.2	16.7	100.0	13.0

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.

EB1190EM [11n(HT40)]
5.6 GHz Band / Channel Middle
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 06
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.8 [° C], 47.8 [%]
Test mode	: WLAN W56_11n(HT40)_Tx	Note1	: CH:110 (5550MHz)



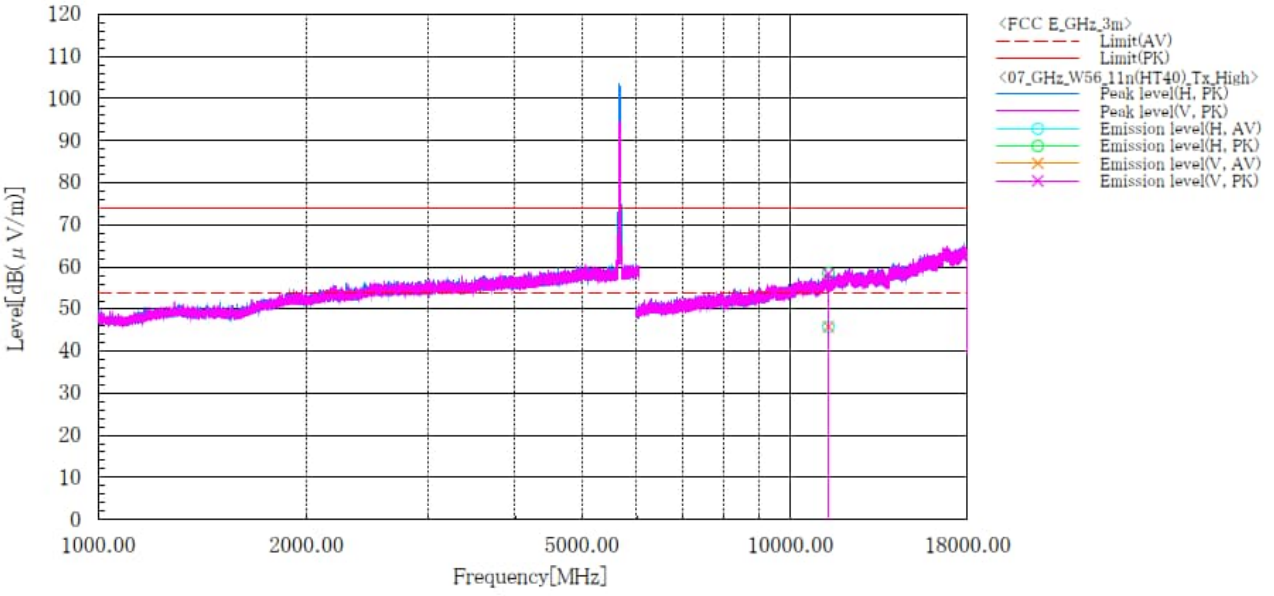
Final Result

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]
1	11100.000	H	31.7	44.2	13.5	45.2	57.7	54.0	74.0	8.8	16.3	100.0	188.0
2	11100.000	V	31.6	44.1	13.5	45.1	57.6	54.0	74.0	8.9	16.4	129.0	10.0

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.

EB1190EM [11n(HT40)]
5.6 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 07
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.8 [° C], 47.8 [%]
Test mode	: WLAN W56_11n(HT40)_Tx	Note1	: CH:134 (5670MHz)



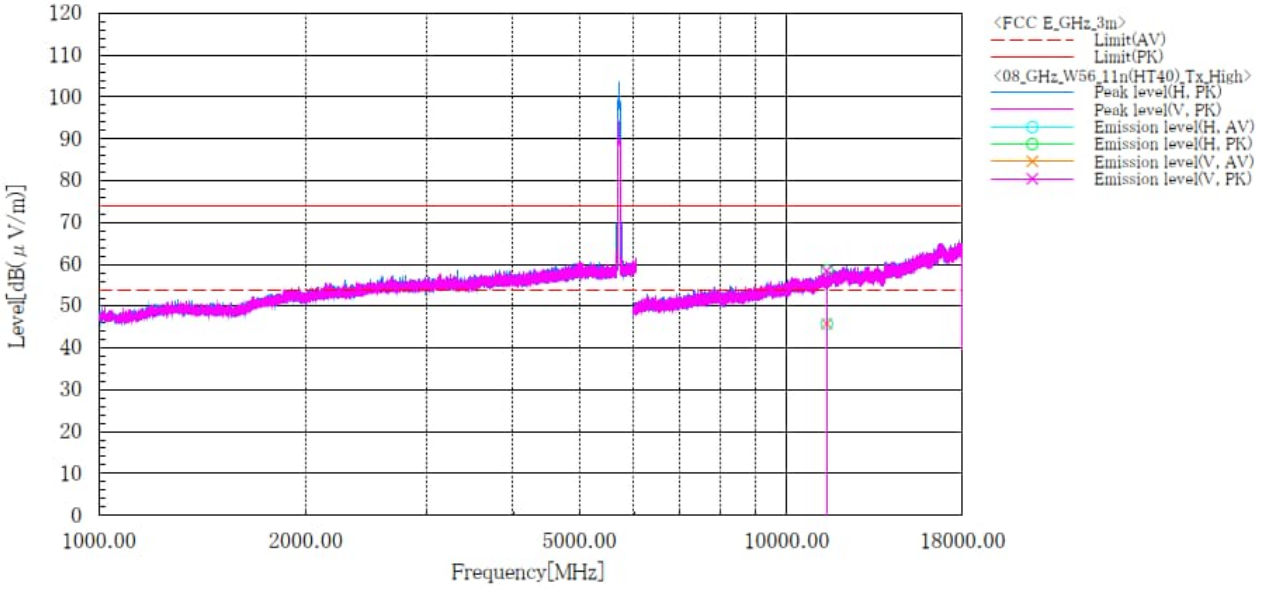
Final Result

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]
1	11340.000	H	31.9	44.5	14.0	45.9	58.5	54.0	74.0	8.1	15.5	100.0	184.0
2	11340.000	V	31.8	44.4	14.0	45.8	58.4	54.0	74.0	8.2	15.6	152.0	92.0

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.

EB1190EM [11n(HT40)]
5.6 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 08
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.8 [° C], 47.8 [%]
Test mode	: WLAN W56_11n(HT40)_Tx	Note1	: CH:142 (5710MHz)



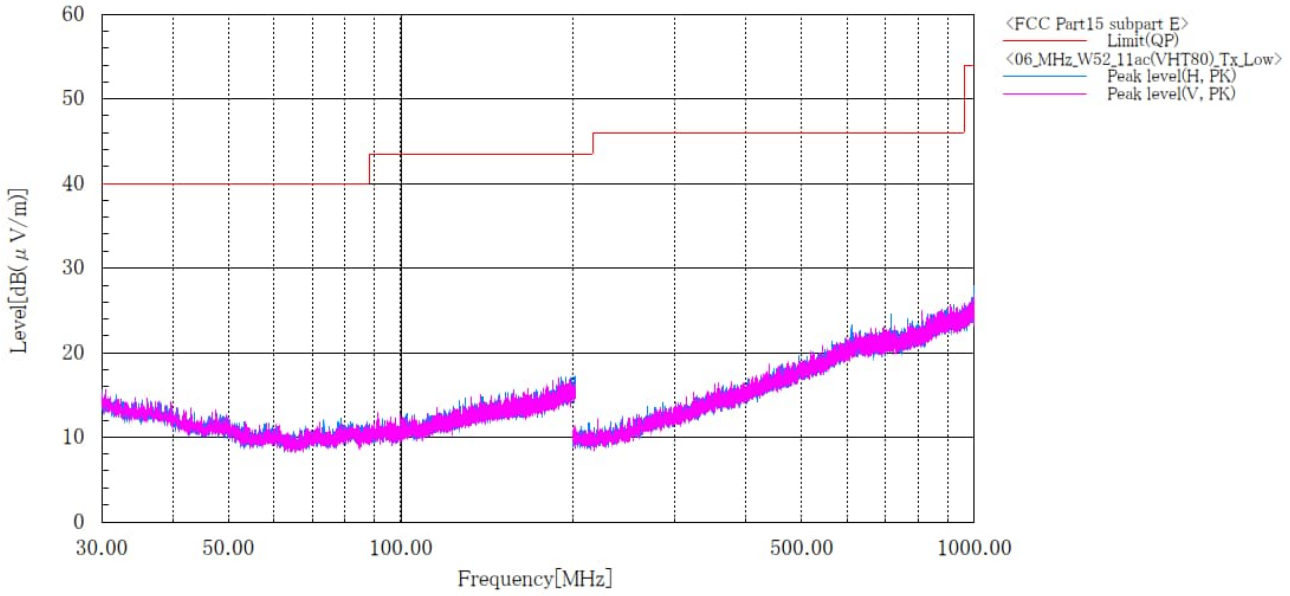
Final Result

No.	Frequency	Pol	Reading AV	Reading PK	c.f	Result AV	Result PK	Limit AV	Limit PK	Margin AV	Margin PK	Height	Angle
	[MHz]		[dB(μV)]	[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[dB]	[cm]	[deg]
1	11420.000	H	31.6	44.4	14.2	45.8	58.6	54.0	74.0	8.2	15.4	100.0	167.0
2	11420.000	V	31.5	44.2	14.2	45.7	58.4	54.0	74.0	8.3	15.6	147.0	196.0

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.

EB1190EM [11ac(VHT80)]
5.2 GHz Band BELOW 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 06
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 22.4 [° C], 53.9 [%]
Test mode	: WLAN_W52_11ac(VHT80)_Tx_CH:Low	Note1	: CH:42(5210MHz)

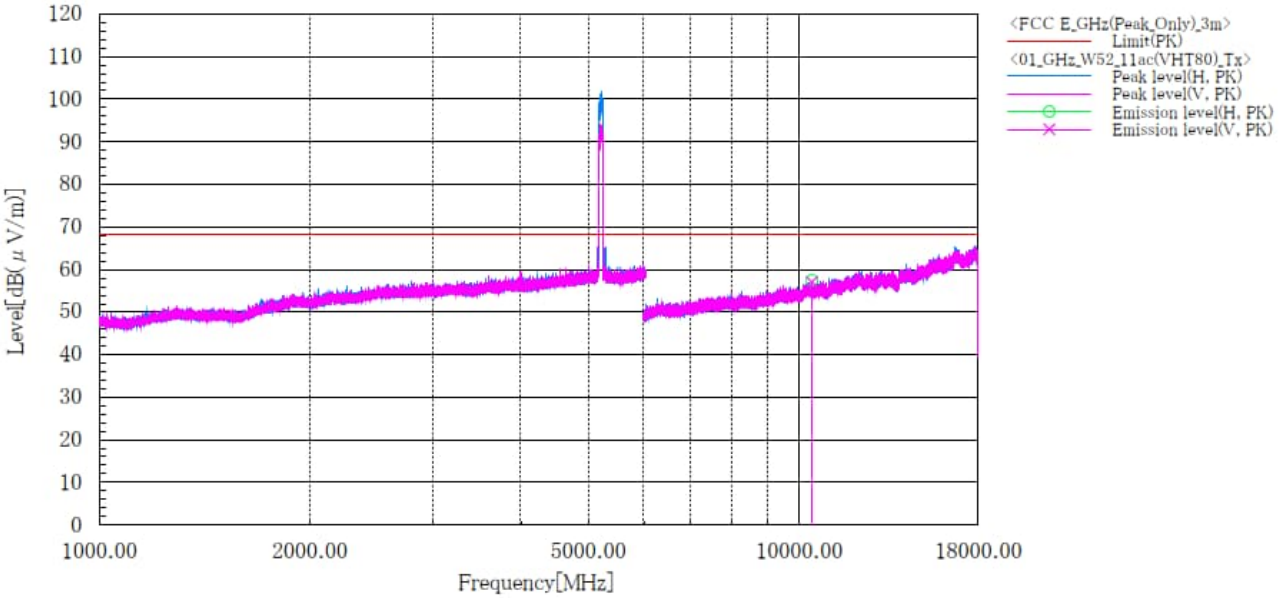


Final Result

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.

EB1190EM [11ac(VHT80)]
5.2 GHz Band
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 01
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.8 [° C], 47.8 [%]
Test mode	: WLAN W52_11ac(VHT80)_Tx	Note1	: CH:42 (5210MHz)



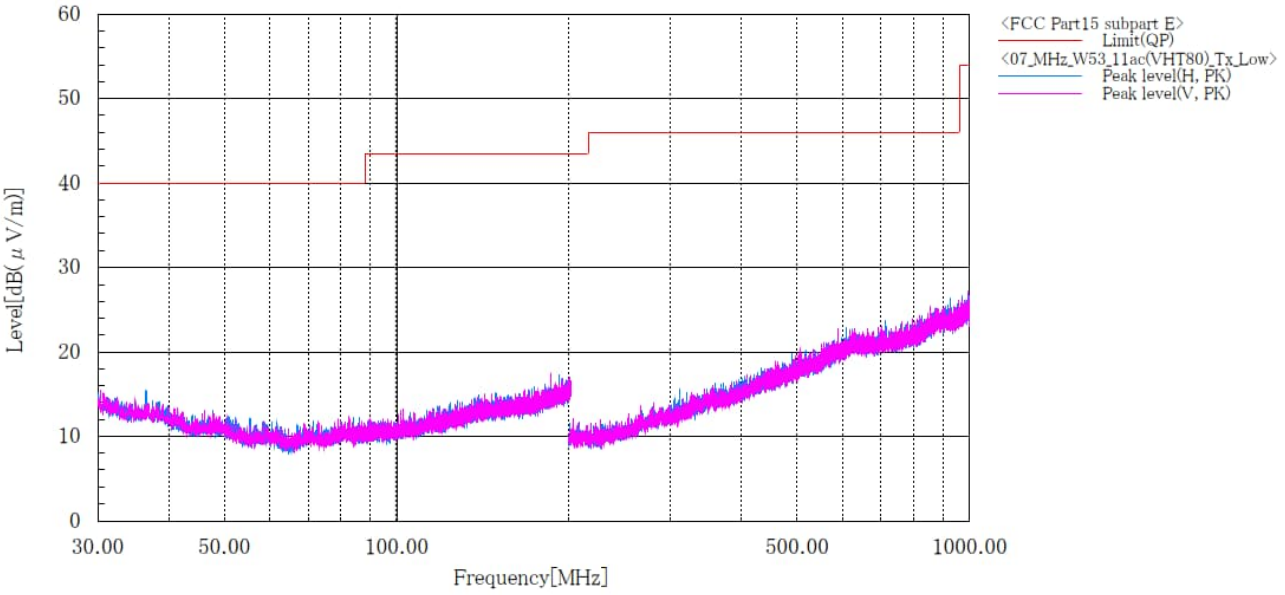
Final Result

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]
1	10420.000	H	44.9	12.5	57.4	68.2	10.8	100.0	177.0
2	10420.000	V	44.5	12.5	57.0	68.2	11.2	168.0	85.0

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.

EB1190EM [11ac(VHT80)]
5.3 GHz Band
BELOW 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 07
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 22.4 [° C], 53.9 [%]
Test mode	: WLAN_W53_11ac(VHT80)_Tx_CH:Low	Note1	: CH:58(5290MHz)

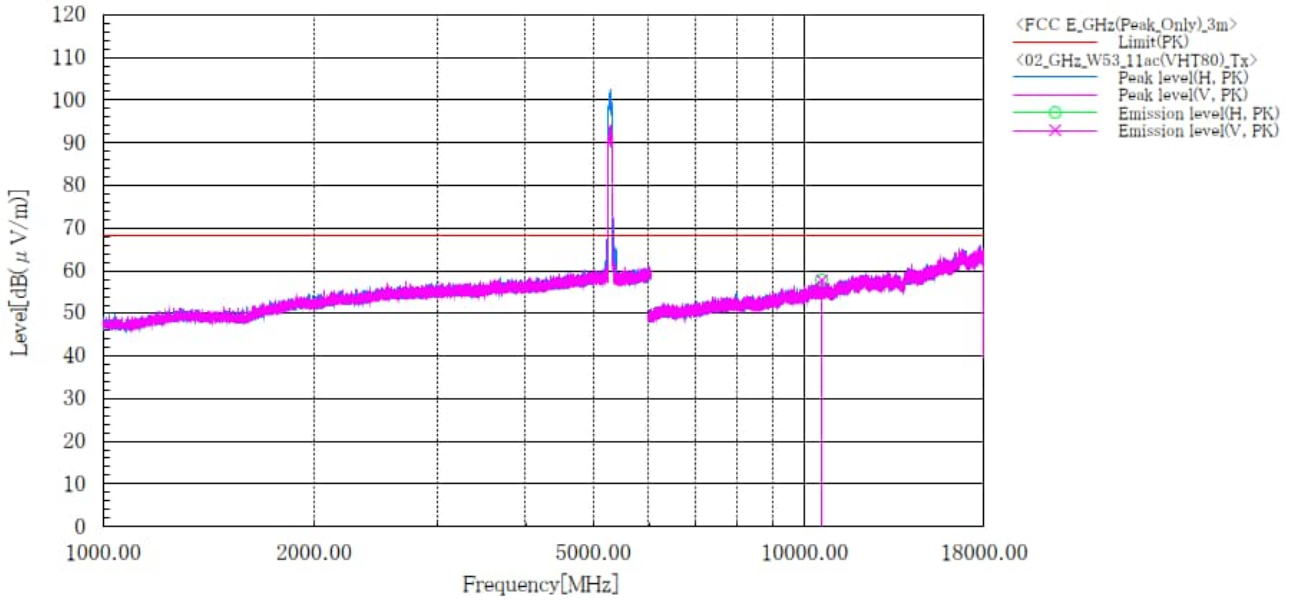


Final Result

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.

EB1190EM [11ac(VHT80)]
5.3 GHz Band
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 02
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.8 [° C], 47.8 [%]
Test mode	: WLAN W53_11ac(VHT80)_Tx	Note1	: CH:58 (5290MHz)



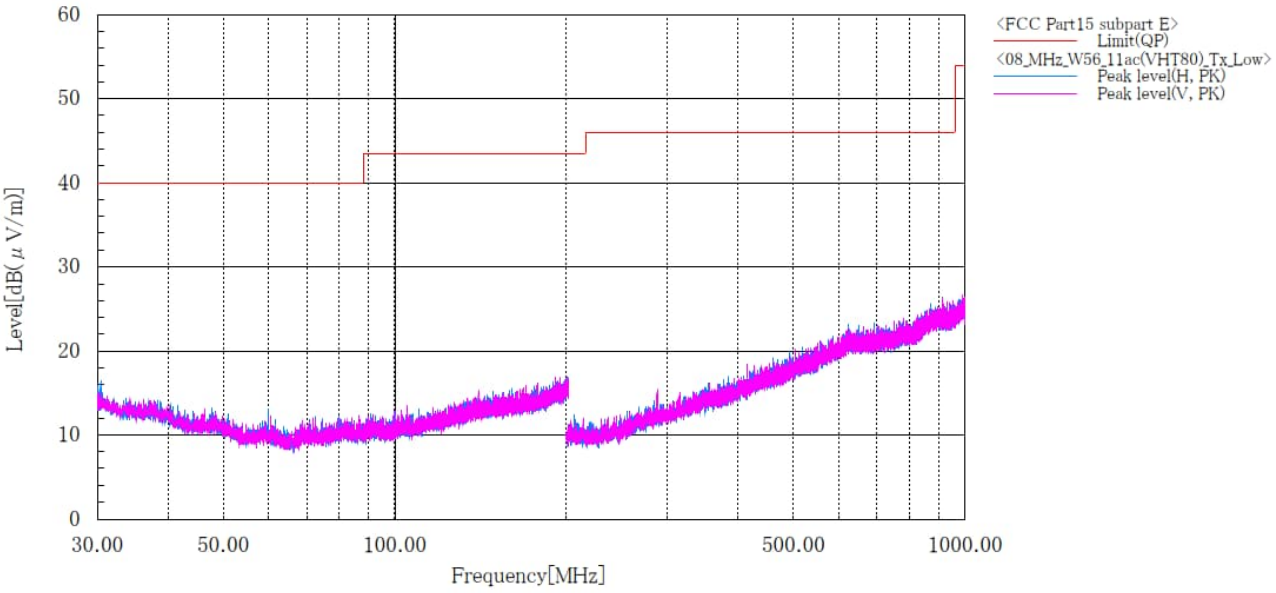
Final Result

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]
1	10580.000	H	45.0	12.8	57.8	68.2	10.4	134.0	174.0
2	10580.000	V	44.9	12.8	57.7	68.2	10.5	182.0	149.0

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.

EB1190EM [11ac(VHT80)]
5.6 GHz Band / Channel Low
BELOW 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 08
EUT	: Mobile Phone	Standard	: FCC Part15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 22.4 [° C], 53.9 [%]
Test mode	: WLAN_W56_11ac(VHT80)_Tx_CH:Low	Note1	: CH:106(5530MHz)

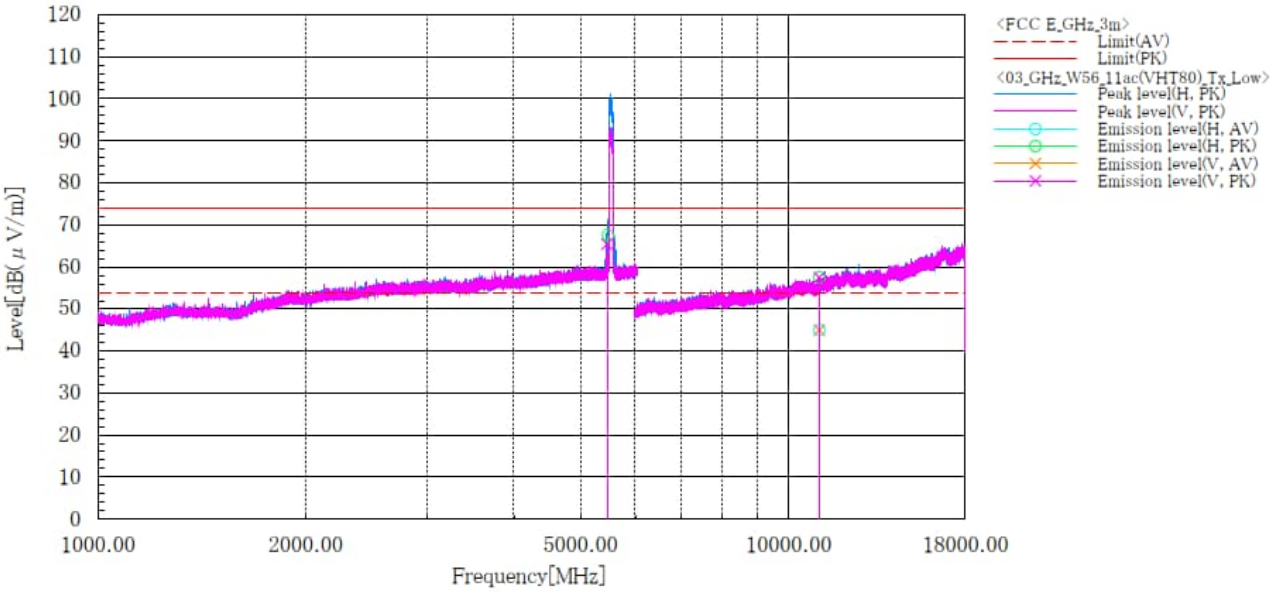


Final Result

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.

EB1190EM [11ac(VHT80)]
5.6 GHz Band / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 03
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.8 [° C], 47.8 [%]
Test mode	: WLAN W56_11ac(VHT80)_Tx	Note1	: CH:106 (5530MHz)



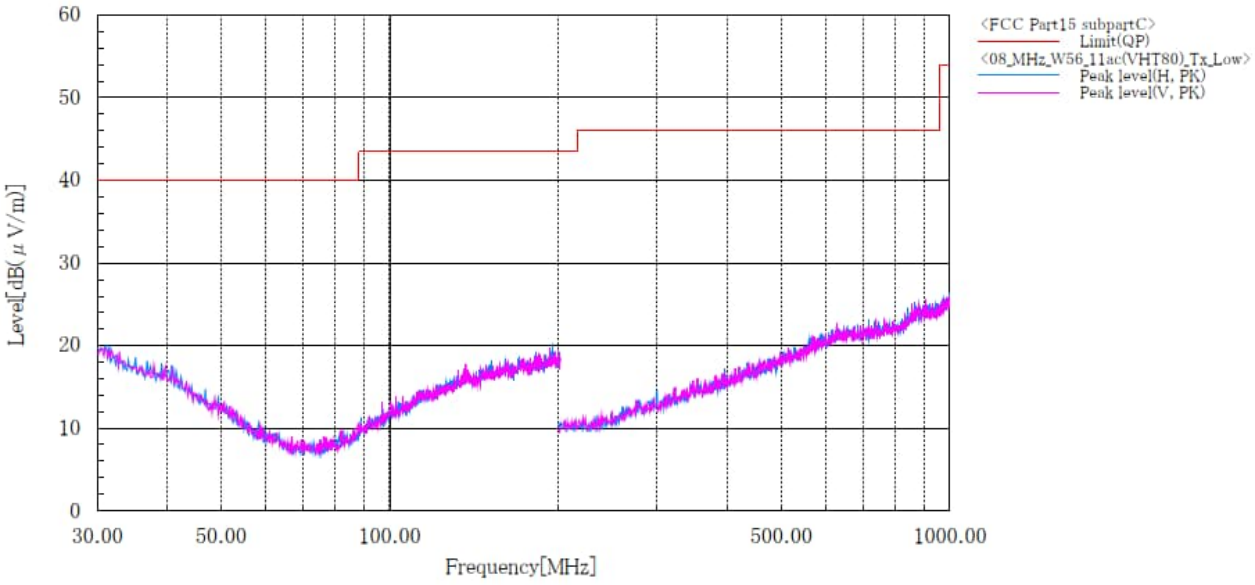
Final Result

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]
1	5467.600	H	----------	54.2	13.3	----------	67.5	----------	68.2	----------	0.7	100.0	197.0
2	5463.400	V	----------	52.1	13.3	----------	65.4	----------	68.2	----------	2.8	181.0	186.0
3	11060.000	H	31.6	44.1	13.4	45.0	57.5	54.0	74.0	9.0	16.5	100.0	197.0
4	11060.000	V	31.6	44.0	13.4	45.0	57.4	54.0	74.0	9.0	16.6	166.0	186.0

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.

EB1207 [11ac(VHT80)]
5.6 GHz Band / Channel Low
BELOW 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 08
EUT	: Mobile Phone	Standard	: FCC Part15 subpart C
Model No.	: EB1207	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 22.3 [° C], 67.6 [%]
Test mode	: WLAN_W56_11ac(VHT80)_Tx_CH:Low	Note1	: CH:106(5530MHz)



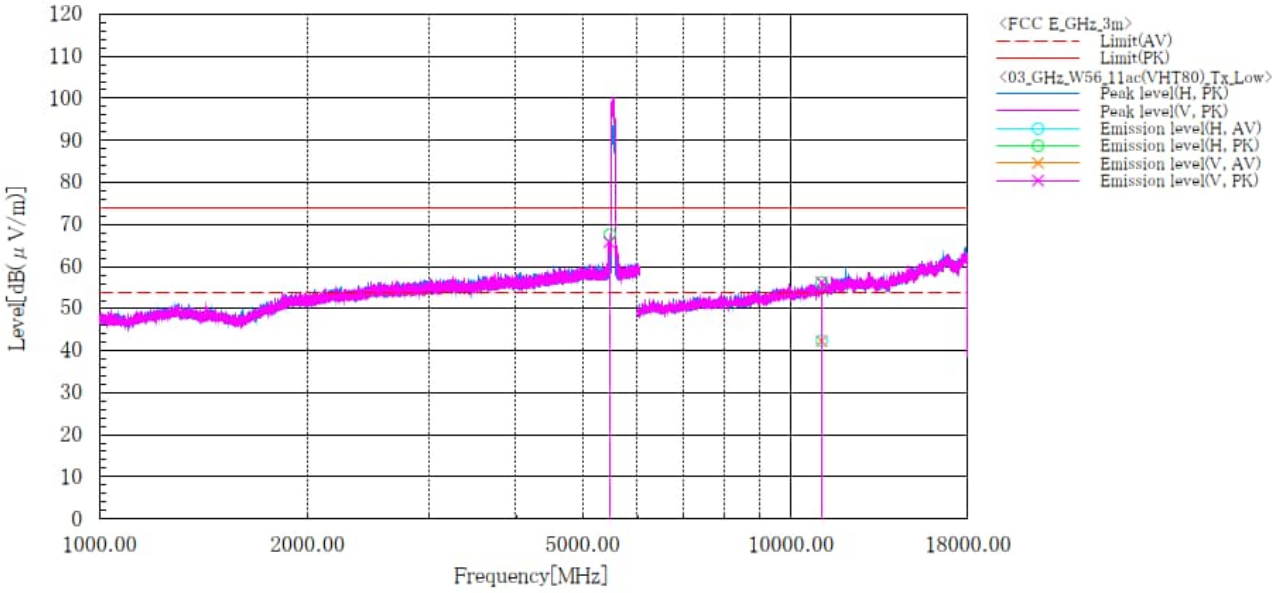
Final Result

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.

Comparison of the charts of EB1190EM and EB1207 showed that the difference in test results was less than 3 dB.

EB1207 [11ac(VHT80)]
5.6 GHz Band / Channel Low
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 03
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1207	Operator	: T.Seino
Serial No.	: N/A	Temp,Hum,Atm	: 22.9 [° C], 68.8 [%]
Test mode	: WLAN W56_11ac(VHT80)_Tx	Note1	: CH:106 (5530MHz)



Final Result

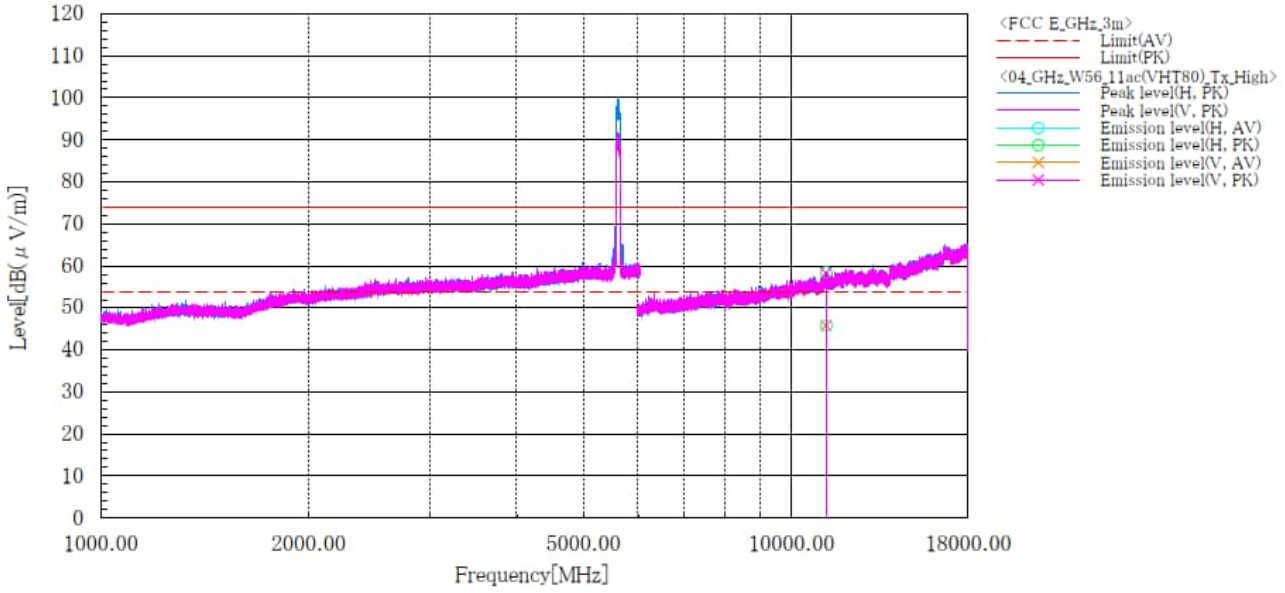
No.	Frequency [MHz]	Pol	Reading AV [dB(μV)]	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result AV [dB(μV/m)]	Result PK [dB(μV/m)]	Limit AV [dB(μV/m)]	Limit PK [dB(μV/m)]	Margin AV [dB]	Margin PK [dB]	Height [cm]	Angle [deg]
1	5467.600	H	----------	54.3	13.3	----------	67.6	----------	68.2	----------	0.6	125.0	179.0
2	5463.400	V	----------	52.5	13.3	----------	65.8	----------	68.2	----------	2.4	100.0	17.0
3	11060.000	H	29.0	42.9	13.4	42.4	56.3	54.0	74.0	11.6	17.7	122.0	182.0
4	11060.000	V	28.8	42.9	13.4	42.2	56.3	54.0	74.0	11.8	17.7	106.0	10.0

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.

Comparison of the charts of EB1190EM and EB1207 showed that the difference in test results was less than 3 dB.

EB1190EM [11ac(VHT80)]
5.6 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 04
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.8 [° C], 47.8 [%]
Test mode	: WLAN W56_11ac(VHT80)_Tx	Note1	: CH:122 (5610MHz)



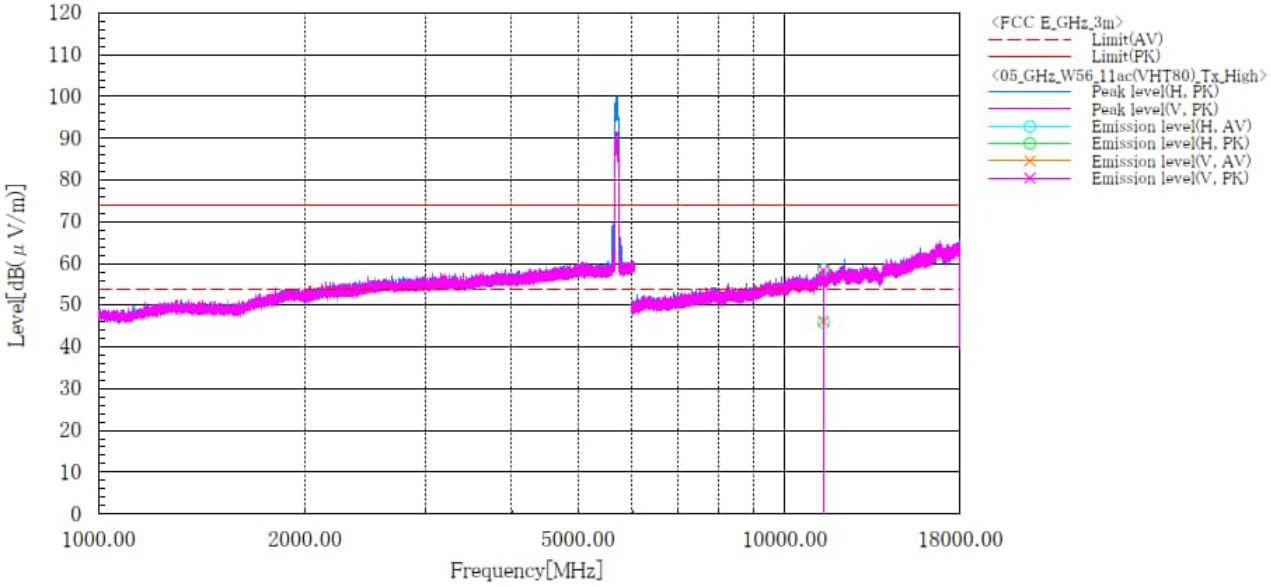
Final Result

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]
1	11220.000	H	32.2	44.7	13.7	45.9	58.4	54.0	74.0	8.1	15.6	100.0	177.0
2	11220.000	V	32.1	44.6	13.7	45.8	58.3	54.0	74.0	8.2	15.7	157.0	196.0

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.

EB1190EM [11ac(VHT80)]
5.6 GHz Band / Channel High
ABOVE 1GHz

Company name	: KYOCERA Corporation	Sheet No.	: 05
EUT	: Mobile Phone	Standard	: FCC Part.15 subpart E
Model No.	: EB1190EM	Operator	: C.Kanno
Serial No.	: N/A	Temp,Hum,Atm	: 23.8 [° C], 47.8 [%]
Test mode	: WLAN W56_11ac(VHT80)_Tx	Note1	: CH:138 (5690MHz)



Final Result

No.	Frequency	Pol	Reading AV	Reading PK	c.f	Result AV	Result PK	Limit AV	Limit PK	Margin AV	Margin PK	Height	Angle
	[MHz]		[dB(μV)]	[dB(μV)]	[dB(1/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB(μV/m)]	[dB]	[dB]	[cm]	[deg]
1	11380.000	H	31.8	44.4	14.1	45.9	58.5	54.0	74.0	8.1	15.5	100.0	170.0
2	11380.000	V	32.0	44.1	14.1	46.1	58.2	54.0	74.0	7.9	15.8	134.0	213.0

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.

4.5 Frequency Stability

4.5.1 Measurement procedure

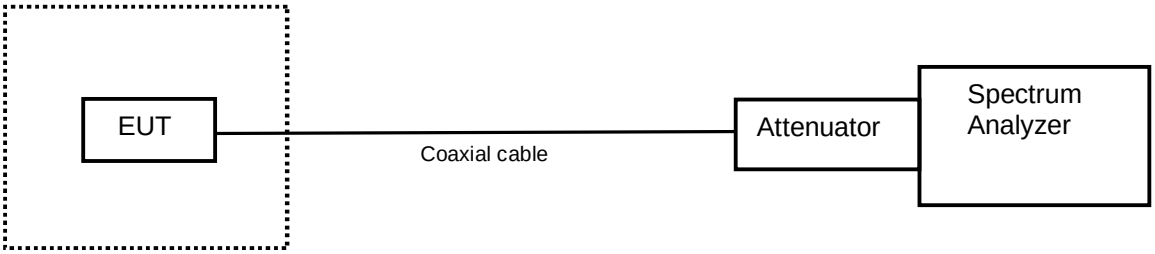
[FCC 15.407(g)]

The EUT was placed of an inside of a constant temperature chamber as the temperature in the chamber was varied between -30˚C and +60˚C. The temperature was incremented by 10˚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



Constant Temperature Chamber

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.

4.5.3 Measurement result

Date	:	7-June-2024			
Temperature	:	21.2 [˚C]			
Humidity	:	53.3 [%]	Test engineer	:	
Test place	:	Shielded room No.4			Kazunori Saito

Date	:	10-June-2024			
Temperature	:	22.5 [˚C]			
Humidity	:	61.3 [%]	Test engineer	:	
Test place	:	Shielded room No.4			Kazunori Saito

Date	:	7-August-2024			
Temperature	:	23.5 [˚C]			
Humidity	:	60.7 [%]	Test engineer	:	
Test place	:	Shielded room No.4			Kazunori Saito

EB1190EM [IEEE802.11a]
Channel: 36 (5180 MHz)

Power Supply [V]	Temperature [ºC]	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.)	5180044164	0.00000000	5180038753	-1.04458569	5180035416	-1.68878869	5180037830	-1.22276950
	60	5180006457	-7.27928157	5180019804	-4.70266261	5179997904	-8.93042579	5180024563	-3.78394457
	50	5180015397	-5.55342756	5180011356	-6.33353673	5180016039	-5.42949039	5180013536	-5.91269090
	40	5180024806	-3.73703378	5180036886	-1.40500733	5180028650	-2.99495516	5180025733	-3.55807777
	30	5180043110	-0.20347317	5180036027	-1.57083603	5180033525	-2.05384349	5180036397	-1.49940807
	20	5180055383	2.16581165	5180044373	0.04034715	5180051059	1.33106973	5180030395	-2.65808545
	10	5180047333	0.61177085	5180048585	0.85346763	5180052970	1.69998551	5180081432	7.19453325
	0	5180066437	4.29977029	5180087260	8.31962019	5180070074	5.00188786	5180082849	7.46808305
	-10	5180076154	6.17562302	5180103098	11.37712308	5180083557	7.60476142	5180095507	9.91169156
	-20	5180085372	7.95514453	5180077827	6.49859324	5180069576	4.90574968	5180075189	5.98933118
	-30	5180083797	7.65109307	5180052216	1.55442690	5180053099	1.72488877	5180086118	8.09915875
3.48	25	5180045372	0.23320264	5180054151	1.92797584	5180040792	-0.65095970	5180052848	1.67643358
4.26	25	5180036659	-1.44882935	5180066660	4.34282012	5180046509	0.45269884	5180034313	-1.90172124

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

Channel: 64 (5320 MHz)

Power Supply [V]	Temperature [ºC]	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.)	5320049972	0.00000000	5320024090	-4.86499190	5320046669	-0.62085883	5320033233	-3.14639902
	60	5320025444	-4.61048301	5320015032	-6.56760748	5320008718	-7.75443844	5320014244	-6.71572639
	50	5320004921	-8.46815354	5319996079	-10.13016800	5320021833	-5.28923603	5320019203	-5.78359229
	40	5320013135	-6.92418308	5320026444	-4.42251485	5320020570	-5.52663982	5320036295	-2.57084051
	30	5320046472	-0.65788856	5320034512	-2.90598774	5320024437	-4.79976694	5320023366	-5.00108084
	20	5320051517	0.29041081	5320039345	-1.99753763	5320058212	1.54885763	5320000041	-9.38545564
	10	5320073738	4.46725127	5320071591	4.06368363	5320064398	2.71162866	5320069606	3.69056684
	0	5320079162	5.48679057	5320062394	2.33494047	5320076796	5.04205790	5320067612	3.31575833
	-10	5320095173	8.49634876	5320095179	8.49747657	5320089724	7.47211026	5320074105	4.53623559
	-20	5320066957	3.19263918	5320076428	4.97288562	5320094509	8.37153791	5320083224	6.25031723
	-30	5320072500	4.23454669	5320065322	2.88531124	5320084913	6.56779545	5320072702	4.27251626
3.48	25	5320045531	-0.83476659	5320031881	-3.40053197	5320045064	-0.92254773	5320036640	-2.50599150
4.26	25	5320045257	-0.88626987	5320059225	1.73926938	5320026375	-4.43548465	5320040402	-1.79885528

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

Channel: 144 (5720 MHz)

Power Supply [V]	Temperature [ºC]	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.)	5720045936	0.00000000	5720030876	-2.63284599	5720030702	-2.66326533	5720034130	-2.06396944
	60	5720018802	-4.74366820	5720028180	-3.10417088	5720022811	-4.04279970	5720009796	-6.31813108
	50	5720033411	-2.18966773	5720041393	-0.79422439	5720038278	-1.33880044	5720017083	-5.04419026
	40	5720009706	-6.33386522	5720010872	-6.13002070	5720020552	-4.43772660	5720020698	-4.41220233
	30	5720040947	-0.87219579	5720057332	1.99229169	5720037046	-1.55418332	5720041013	-0.86065742
	20	5720067608	3.78878076	5720032137	-2.41239321	5720055704	1.70767859	5720067358	3.74507482
	10	5720093564	8.32650656	5720095865	8.72877606	5720070476	4.29017534	5720062853	2.95749373
	0	5720089054	7.53805135	5720097102	8.94503306	5720079210	5.81708615	5720069050	4.04087664
	-10	5720079438	5.85694597	5720099675	9.39485462	5720081081	6.14418143	5720073870	4.88352722
	-20	5720092642	8.16531904	5720094349	8.46374322	5720099118	9.29747778	5720093990	8.40098148
	-30	5720093994	8.40168078	5720082189	6.33788616	5720074046	4.91429620	5720056027	1.76414667
3.48	25	5720048275	0.40891280	5720030100	-2.76850924	5720067889	3.83790624	5720043965	-0.34457765
4.26	25	5720040363	-0.97429287	5720042428	-0.61328179	5720057246	1.97725685	5720036535	-1.64351827

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

EB1207 [IEEE802.11a]
Channel: 36 (5180 MHz)

Power Supply [V]	Temperature [ºC]	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.)	5180016862	0.00000000	5180005084	-2.27373777	5180006612	-1.97875804	5179996423	-3.94574005
	60	5179998568	-3.53164874	5179983274	-6.48414878	5179989357	-5.30982828	5179990011	-5.18357386
	50	5179990616	-5.06677887	5179977438	-7.61078604	5179976367	-7.81754212	5179999983	-3.25852858
	40	5180004082	-2.46717344	5179988851	-5.40751135	5179979418	-7.22854790	5179991795	-4.83917344
	30	5180024762	1.52509156	5180011451	-1.04459119	5180005865	-2.12296606	5180008586	-1.59767820
	20	5180021170	0.83165752	5180019135	0.43880166	5180026613	1.88242630	5180037244	3.93473623
	10	5180060050	8.33742460	5180042963	5.03878669	5180042435	4.93685652	5180034058	3.31968031
	0	5180040393	4.54264931	5180033313	3.17585839	5180064282	9.15441035	5180037056	3.89844291
	-10	5180031940	2.91080134	5180045210	5.47256906	5180053723	7.11600000	5180040559	4.57469553
	-20	5180051763	6.73762286	5180038468	4.17102889	5180031003	2.72991389	5180052535	6.88665712
	-30	5180024807	1.53377879	5180038479	4.17315244	5180024679	1.50906845	5180037332	3.95172459
3.48	25	5180010255	-1.27547847	5180012662	-0.81080817	5179996112	-4.00577847	5180006933	-1.91678913
4.26	25	5180003743	-2.53261724	5180007737	-1.76157728	5180036425	3.77662863	5180022999	1.18474518

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

Channel: 64 (5320 MHz)

Power Supply [V]	Temperature [ºC]	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.)	5320003027	0.00000000	5320012335	1.74962306	5320001411	-0.30375923	5320011077	1.51315703
	60	5319979585	-4.40638847	5319992722	-1.93702897	5320012364	1.75507419	5320003437	0.07706763
	50	5319988880	-2.65920901	5319981650	-4.01823080	5320005179	0.40451105	5319992229	-2.02969809
	40	5319973871	-5.48044801	5319986433	-3.11917116	5320020676	3.31747932	5319959045	-8.26728853
	30	5320001772	-0.23590212	5320003666	0.12011271	5320009105	1.14248055	5319996248	-1.27424740
	20	5320022011	3.56841902	5320037656	6.50920682	5320043358	7.58101072	5320011624	1.61597652
	10	5320037809	6.53796620	5320040559	7.05488320	5320044465	7.78909331	5320040874	7.11409370
	0	5320042675	7.45262734	5320057369	10.21465584	5320032895	5.61428252	5320045224	7.93176240
	-10	5320033743	5.77368093	5320045781	8.03646159	5320040264	6.99943211	5320035590	6.12086118
	-20	5320035986	6.19529723	5320030320	5.13026024	5320034271	5.87292899	5320055783	9.91653571
	-30	5320042631	7.44435667	5320023135	3.77969710	5320040980	7.13401850	5320044469	7.78984519
3.48	25	5320023495	3.84736623	5320006388	0.63176656	5320012914	1.85845759	5319984672	-3.45018601
4.26	25	5320010881	1.47631495	5320013880	2.04003643	5319994833	-1.54022469	5320025864	4.29266673

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

Channel: 144 (5720 MHz)

Power Supply [V]	Temperature [ºC]	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.)	5719992455	0.00000000	5720010527	3.15944473	5720006922	2.52919914	5720030326	6.62081293
	60	5720008632	2.82815058	5720010839	3.21399025	5719980909	-2.01853413	5719988505	-0.69056035
	50	5720006507	2.45664660	5719988959	-0.61118962	5719998335	1.02797338	5719993531	0.18811214
	40	5720003033	1.84930314	5720004249	2.06189083	5719997802	0.93479144	5719985093	-1.28706463
	30	5719994499	0.35734313	5720015000	3.94143877	5720005785	2.33042265	5720014491	3.85245263
	20	5720047368	9.60018749	5720031063	6.74965925	5720028094	6.23060262	5720052270	10.45718163
	10	5720052167	10.43917461	5720025125	5.71154600	5720050777	10.19616730	5720025354	5.75158101
	0	5720047073	9.54861399	5720052552	10.50648239	5720055231	10.97483965	5720049836	10.03165659
	-10	5720064252	12.55193963	5720033612	7.19528921	5720047674	9.65368406	5720071284	13.78131188
	-20	5720049387	9.95315998	5720046149	9.38707532	5720055431	11.00980473	5720064246	12.55089068
	-30	5720052106	10.42851026	5720036533	7.70595422	5720035199	7.47273713	5720032988	7.08619816
3.48	25	5720004890	2.17395392	5720016667	4.23287272	5720017966	4.45997092	5720015951	4.10769773
4.26	25	5720012178	3.44808147	5719988416	-0.70611981	5720008529	2.81014357	5720004749	2.14930353

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

4.6 AC Power Line Conducted Emissions

4.6.1 Measurement procedure

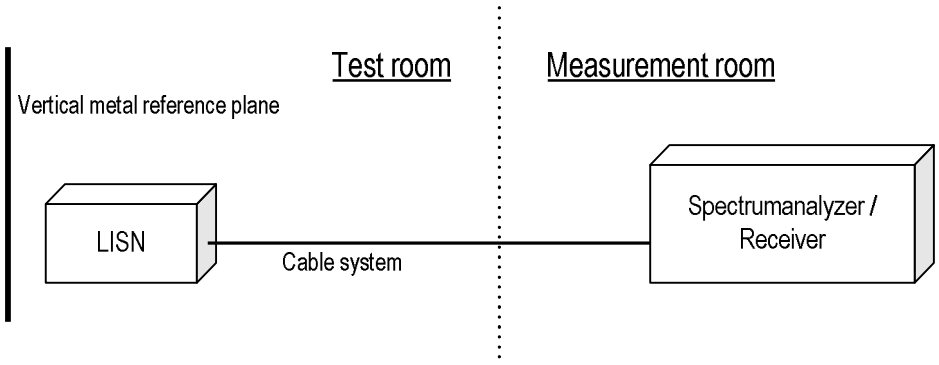
[FCC 15.207]

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.

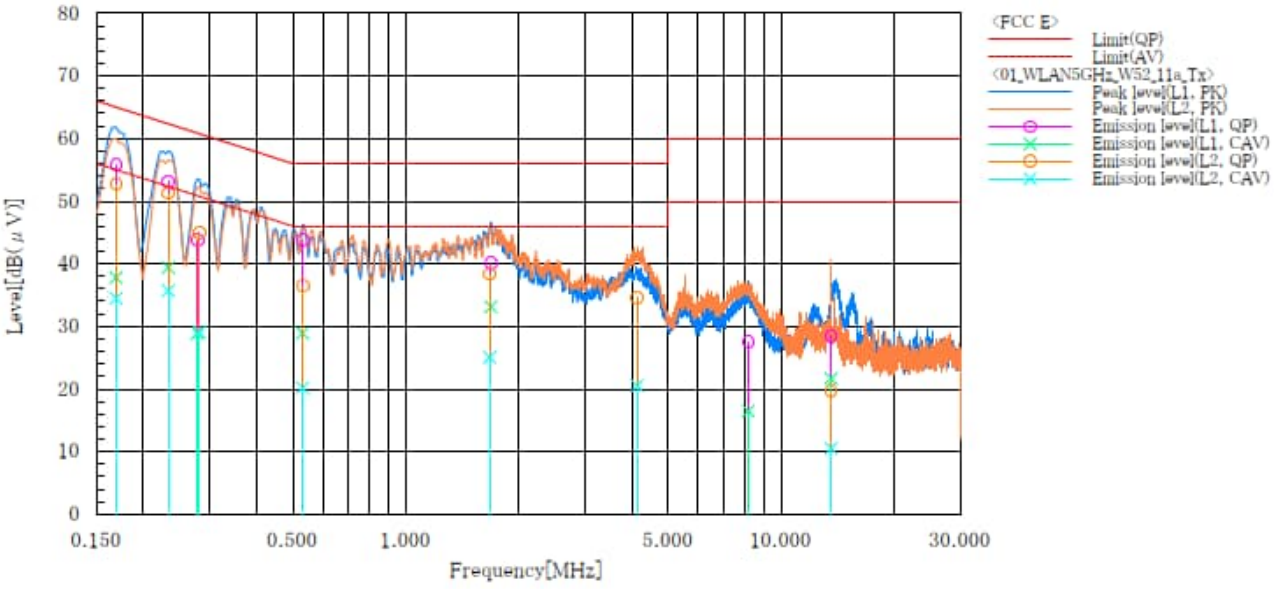
4.6.4 Test data

Date	:	7-June-2024			
Temperature	:	22.4 [˚C]			
Humidity	:	53.9 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Chiaki Kanno

Date	:	9-August-2024			
Temperature	:	21.9 [˚C]			
Humidity	:	58.8 [%]	Test engineer	:	
Test place	:	3m Semi-anechoic chamber			Tadahiro Seino

EB1190EM [5.2 GHz Band]

Company name	: KYOCERA Corporation	Standard	: FCC Part 15 Class E
EUT	: Mobile Phone	Operator	: C.Kanno
Model No.	: EB1190EM	Temp,Hum,Atm	: 22.4 [° C], 53.9 [%]
Serial No.	: N/A	Note1	: CH:36_5180MHz
Test mode	: WLAN_11a_W52_Tx	Note2	:



Final Result

--- L1 ---

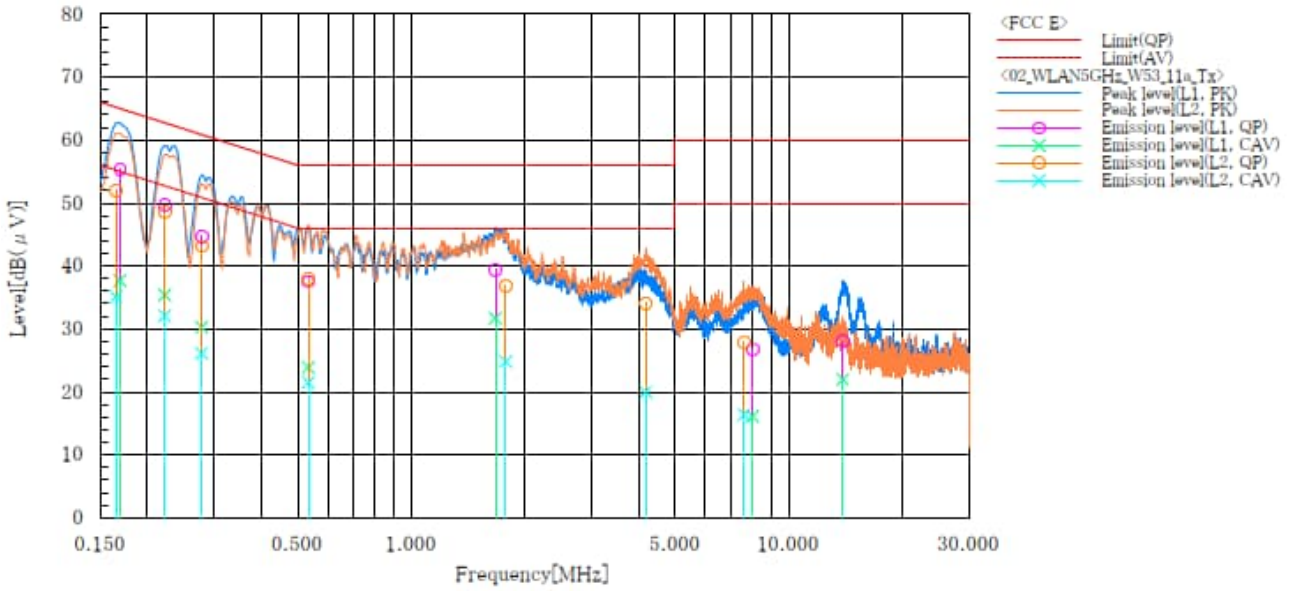
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.169	45.4	27.4	10.4	55.8	37.8	65.0	55.0	9.2	17.2
2	0.233	42.8	29.1	10.3	53.1	39.4	62.3	52.3	9.2	12.9
3	0.278	33.5	18.6	10.3	43.8	28.9	60.9	50.9	17.1	22.0
4	0.531	33.5	18.6	10.3	43.8	28.9	56.0	46.0	12.2	17.1
5	1.684	29.7	22.7	10.4	40.1	33.1	56.0	46.0	15.9	12.9
6	8.181	16.6	5.6	10.9	27.5	16.5	60.0	50.0	32.5	33.5
7	13.559	17.1	10.3	11.4	28.5	21.7	60.0	50.0	31.5	28.3

--- L2 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.169	42.3	24.1	10.4	52.7	34.5	65.0	55.0	12.3	20.5
2	0.233	41.0	25.4	10.3	51.3	35.7	62.3	52.3	11.0	16.6
3	0.282	34.7	18.8	10.3	45.0	29.1	60.8	50.8	15.8	21.7
4	0.531	26.2	9.9	10.3	36.5	20.2	56.0	46.0	19.5	25.8
5	1.672	27.9	14.7	10.4	38.3	25.1	56.0	46.0	17.7	20.9
6	4.130	24.0	9.9	10.6	34.6	20.5	56.0	46.0	21.4	25.5
7	13.560	8.2	-1.0	11.5	19.7	10.5	60.0	50.0	40.3	39.5

EB1190EM [5.3 GHz Band]

Company name	: KYOCERA Corporation	Standard	: FCC Part 15 Class E
EUT	: Mobile Phone	Operator	: C.Kanno
Model No.	: EB1190EM	Temp,Hum,Atm	: 22.4 [° C], 53.9 [%]
Serial No.	: N/A	Note1	: CH:52_5260MHz
Test mode	: WLAN_11a_W53_Tx	Note2	:



Final Result

--- L1 ---

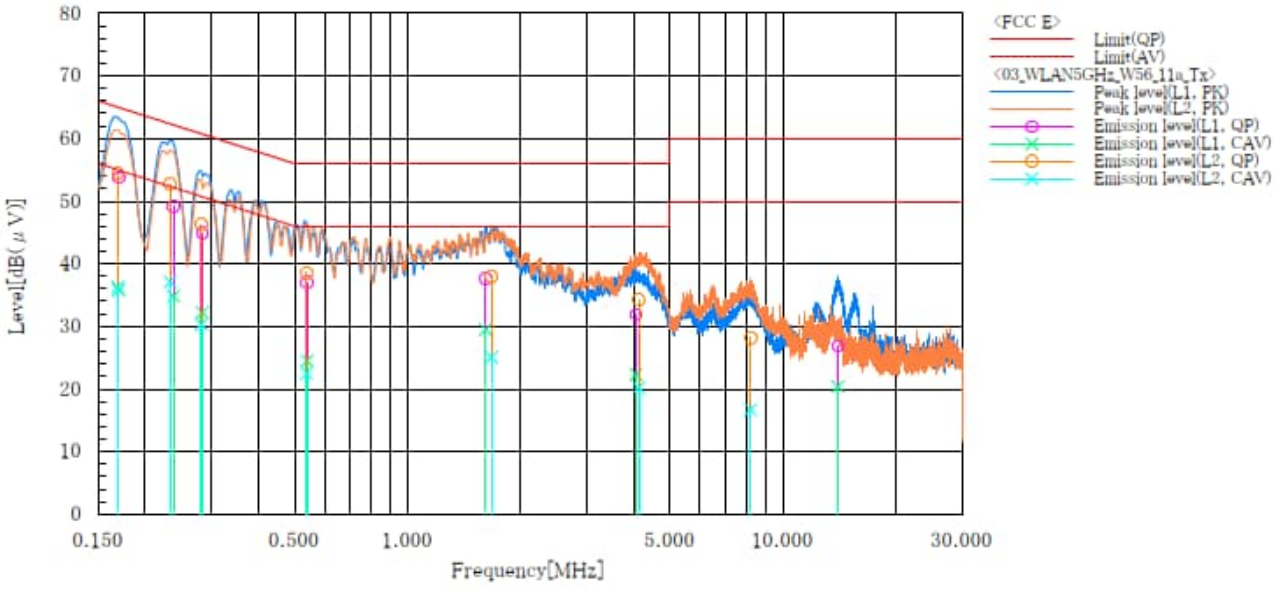
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.169	45.0	27.3	10.4	55.4	37.7	65.0	55.0	9.6	17.3
2	0.222	39.3	25.1	10.3	49.6	35.4	62.7	52.7	13.1	17.3
3	0.278	34.4	20.0	10.3	44.7	30.3	60.9	50.9	16.2	20.6
4	0.534	27.2	13.6	10.3	37.5	23.9	56.0	46.0	18.5	22.1
5	1.669	29.1	21.4	10.3	39.4	31.7	56.0	46.0	16.6	14.3
6	8.015	15.9	5.2	10.9	26.8	16.1	60.0	50.0	33.2	33.9
7	13.905	16.6	10.5	11.5	28.1	22.0	60.0	50.0	31.9	28.0

--- L2 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.165	41.6	24.7	10.4	52.0	35.1	65.2	55.2	13.2	20.1
2	0.222	38.2	21.7	10.4	48.6	32.1	62.7	52.7	14.1	20.6
3	0.278	32.8	15.8	10.3	43.1	26.1	60.9	50.9	17.8	24.8
4	0.534	27.7	11.2	10.3	38.0	21.5	56.0	46.0	18.0	24.5
5	1.778	26.5	14.4	10.4	36.9	24.8	56.0	46.0	19.1	21.2
6	4.179	23.5	9.4	10.6	34.1	20.0	56.0	46.0	21.9	26.0
7	7.604	17.0	5.5	10.9	27.9	16.4	60.0	50.0	32.1	33.6

EB1190EM [5.6 GHz Band]

Company name	: KYOCERA Corporation	Standard	: FCC Part 15 Class E
EUT	: Mobile Phone	Operator	: C.Kanno
Model No.	: EB1190EM	Temp,Hum,Atm	: 22.4 [° C], 53.9 [%]
Serial No.	: N/A	Note1	: CH:100_5500MHz
Test mode	: WLAN_11a_W56_Tx	Note2	:



Final Result

--- L1 ---

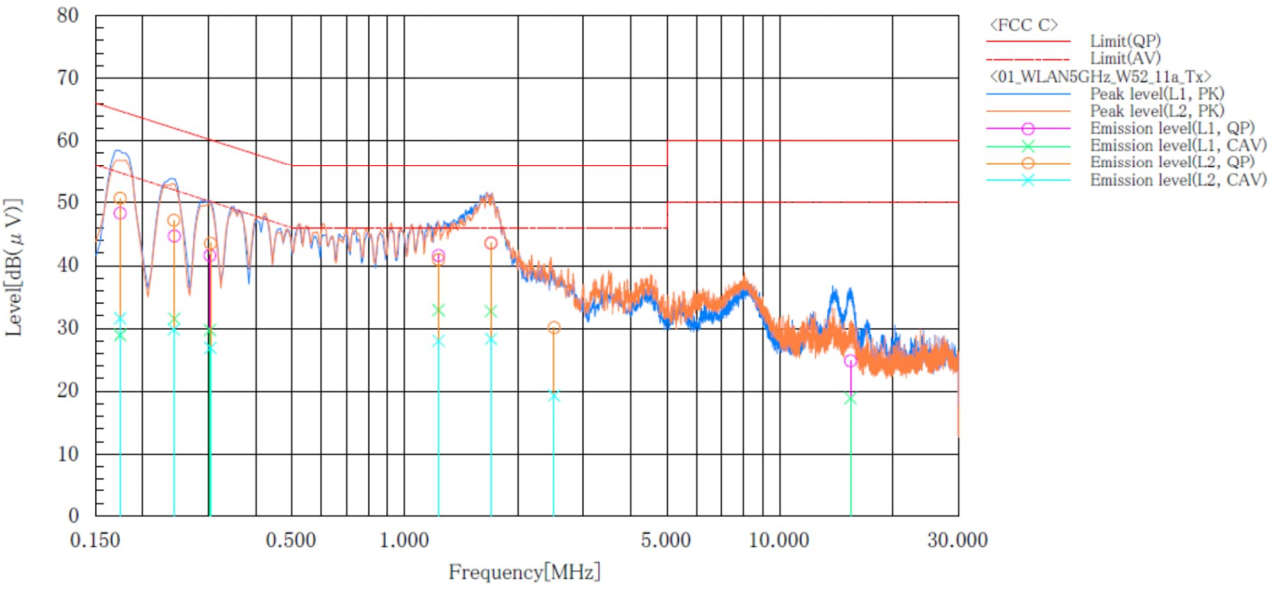
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.170	43.4	25.4	10.4	53.8	35.8	65.0	55.0	11.2	19.2
2	0.238	38.9	24.5	10.3	49.2	34.8	62.2	52.2	13.0	17.4
3	0.284	34.6	21.9	10.3	44.9	32.2	60.7	50.7	15.8	18.5
4	0.540	26.7	14.2	10.3	37.0	24.5	56.0	46.0	19.0	21.5
5	1.612	27.3	19.2	10.3	37.6	29.5	56.0	46.0	18.4	16.5
6	4.062	21.4	11.8	10.5	31.9	22.3	56.0	46.0	24.1	23.7
7	13.988	15.4	8.9	11.5	26.9	20.4	60.0	50.0	33.1	29.6

--- L2 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.169	44.0	25.9	10.4	54.4	36.3	65.0	55.0	10.6	18.7
2	0.233	42.4	26.8	10.3	52.7	37.1	62.3	52.3	9.6	15.2
3	0.282	36.0	20.0	10.3	46.3	30.3	60.8	50.8	14.5	20.5
4	0.538	28.3	12.2	10.3	38.6	22.5	56.0	46.0	17.4	23.5
5	1.672	27.6	14.7	10.4	38.0	25.1	56.0	46.0	18.0	20.9
6	4.126	23.7	9.6	10.6	34.3	20.2	56.0	46.0	21.7	25.8
7	8.192	17.3	5.8	10.9	28.2	16.7	60.0	50.0	31.8	33.3

EB1207 [5.2 GHz Band]

Company name	: KYOCERA Corporation	Standard	: FCC Part 15 Class E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1207	Temp,Hum,Atm	: 21.9 [° C], 58.8 [%]
Serial No.	: N/A	Note1	: CH:36_5180MHz
Test mode	: WLAN_11a_W52_Tx	Note2	:



Final Result

--- L1 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.174	37.9	18.5	10.4	48.3	28.9	64.8	54.8	16.5	25.9
2	0.243	34.3	21.1	10.4	44.7	31.5	62.0	52.0	17.3	20.5
3	0.302	31.3	19.4	10.3	41.6	29.7	60.2	50.2	18.6	20.5
4	1.231	31.2	22.5	10.4	41.6	32.9	56.0	46.0	14.4	13.1
5	1.698	33.1	22.3	10.4	43.5	32.7	56.0	46.0	12.5	13.3
6	15.477	13.1	7.2	11.7	24.8	18.9	60.0	50.0	35.2	31.1

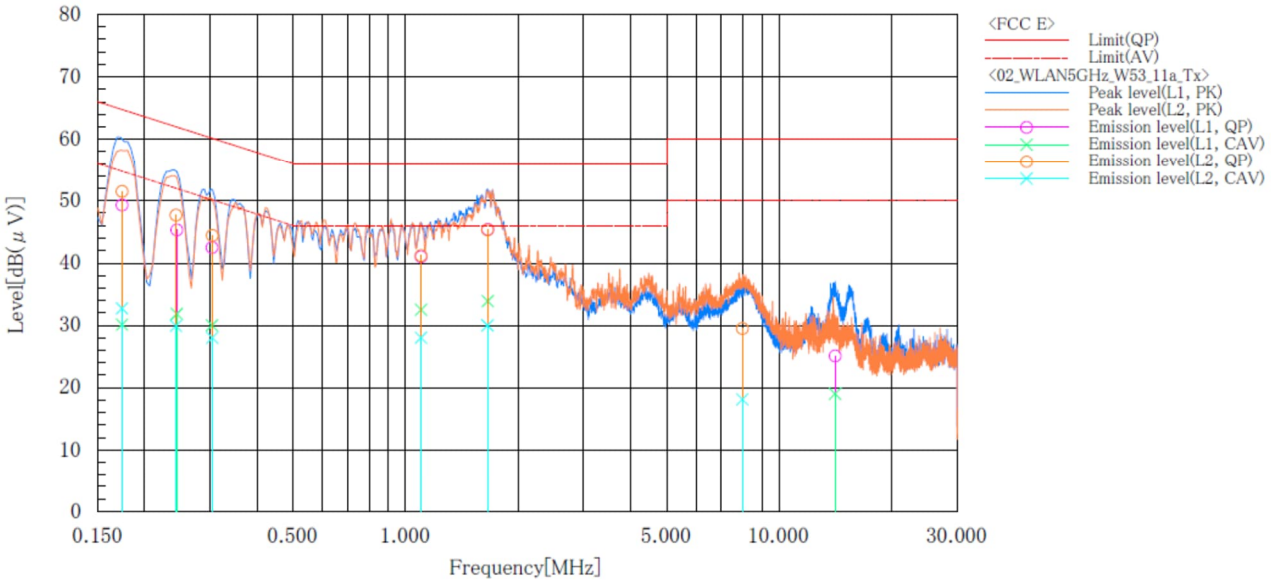
--- L2 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.174	40.3	21.2	10.4	50.7	31.6	64.8	54.8	14.1	23.2
2	0.242	36.9	19.5	10.3	47.2	29.8	62.0	52.0	14.8	22.2
3	0.303	33.2	16.6	10.3	43.5	26.9	60.2	50.2	16.7	23.3
4	1.230	30.6	17.7	10.3	40.9	28.0	56.0	46.0	15.1	18.0
5	1.699	33.2	17.9	10.4	43.6	28.3	56.0	46.0	12.4	17.7
6	2.501	19.7	8.9	10.4	30.1	19.3	56.0	46.0	25.9	26.7

Comparison of the charts of EB1190EM and EB1207 showed that the difference in test results was less than 3 dB.

EB1207 [5.3 GHz Band]

Company name	: KYOCERA Corporation	Standard	: FCC Part 15 Class E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1207	Temp,Hum,Atm	: 21.9 [° C], 58.8 [%]
Serial No.	: N/A	Note1	: CH:52_5260MHz
Test mode	: WLAN_11a_W53_Tx	Note2	:



Final Result

--- L1 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.174	38.9	19.7	10.4	49.3	30.1	64.8	54.8	15.5	24.7
2	0.244	34.9	21.4	10.4	45.3	31.8	62.0	52.0	16.7	20.2
3	0.303	32.2	19.7	10.3	42.5	30.0	60.2	50.2	17.7	20.2
4	1.100	30.7	22.2	10.3	41.0	32.5	56.0	46.0	15.0	13.5
5	1.660	35.0	23.5	10.4	45.4	33.9	56.0	46.0	10.6	12.1
6	14.139	13.5	7.4	11.6	25.1	19.0	60.0	50.0	34.9	31.0

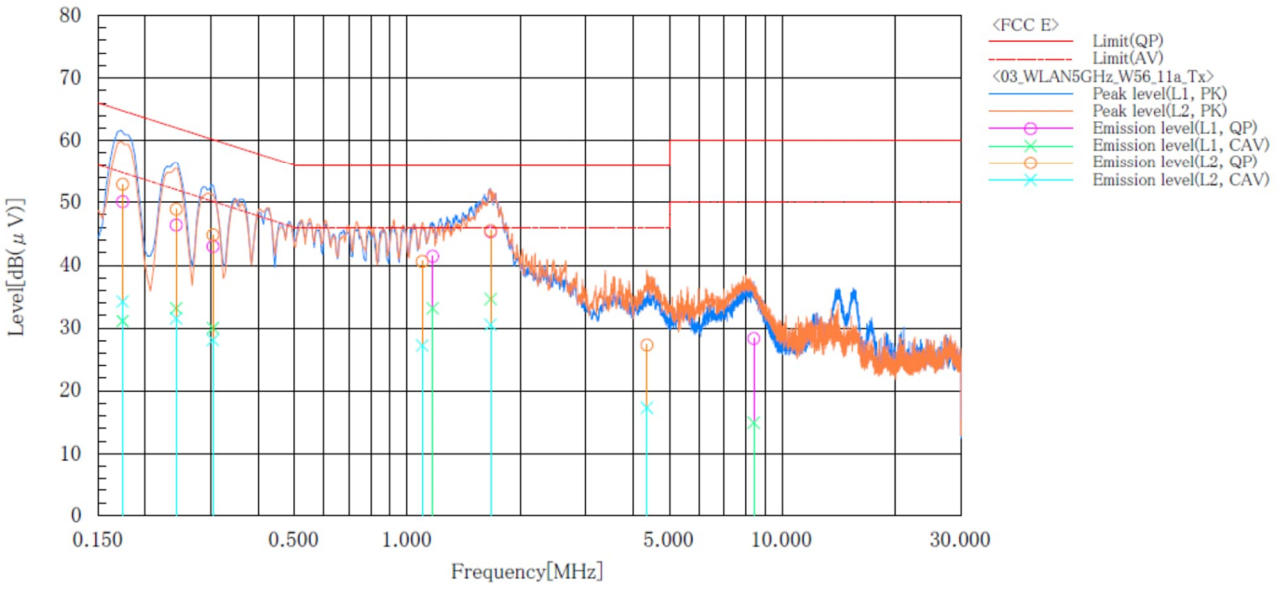
--- L2 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.174	41.1	22.3	10.4	51.5	32.7	64.8	54.8	13.3	22.1
2	0.243	37.4	19.6	10.3	47.7	29.9	62.0	52.0	14.3	22.1
3	0.304	34.1	17.7	10.3	44.4	28.0	60.1	50.1	15.7	22.1
4	1.100	30.9	17.7	10.3	41.2	28.0	56.0	46.0	14.8	18.0
5	1.657	34.9	19.6	10.4	45.3	30.0	56.0	46.0	10.7	16.0
6	7.985	18.6	7.2	10.9	29.5	18.1	60.0	50.0	30.5	31.9

Comparison of the charts of EB1190EM and EB1207 showed that the difference in test results was less than 3 dB.

EB1207 [5.6 GHz Band]

Company name	: KYOCERA Corporation	Standard	: FCC Part 15 Class E
EUT	: Mobile Phone	Operator	: T.Seino
Model No.	: EB1207	Temp,Hum,Atm	: 21.9 [° C], 58.8 [%]
Serial No.	: N/A	Note1	: CH:100_5500MHz
Test mode	: WLAN_11a_W56_Tx	Note2	:



Final Result

--- L1 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.174	39.7	20.7	10.4	50.1	31.1	64.8	54.8	14.7	23.7
2	0.242	36.0	22.7	10.4	46.4	33.1	62.0	52.0	15.6	18.9
3	0.303	32.7	19.7	10.3	43.0	30.0	60.2	50.2	17.2	20.2
4	1.168	31.1	22.8	10.3	41.4	33.1	56.0	46.0	14.6	12.9
5	1.669	34.9	24.2	10.4	45.3	34.6	56.0	46.0	10.7	11.4
6	8.403	17.3	3.9	11.0	28.3	14.9	60.0	50.0	31.7	35.1

--- L2 ---

No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c.f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.174	42.5	23.8	10.4	52.9	34.2	64.8	54.8	11.9	20.6
2	0.242	38.6	21.2	10.3	48.9	31.5	62.0	52.0	13.1	20.5
3	0.303	34.5	17.8	10.3	44.8	28.1	60.2	50.2	15.4	22.1
4	1.096	30.3	16.9	10.3	40.6	27.2	56.0	46.0	15.4	18.8
5	1.669	35.1	20.1	10.4	45.5	30.5	56.0	46.0	10.5	15.5
6	4.356	16.7	6.7	10.6	27.3	17.3	56.0	46.0	28.7	28.7

Comparison of the charts of EB1190EM and EB1207 showed that the difference in test results was less than 3 dB.

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]

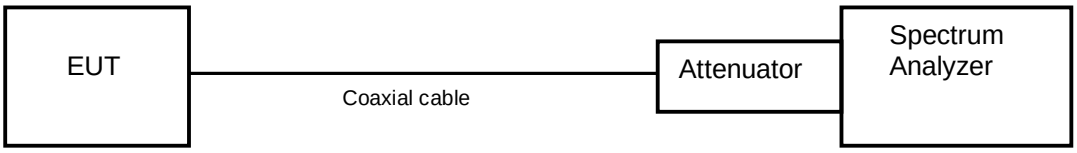
The duty cycle is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

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	:	6-June-2024			
Temperature	:	20.2 [˚C]			
Humidity	:	52.3 [%]	Test engineer	:	
Test place	:	Shielded room No.4			Kazunori Saito

Date	:	6-August-2024			
Temperature	:	23.0 [˚C]			
Humidity	:	54.3 [%]	Test engineer	:	
Test place	:	Shielded room No.4			Kazunori Saito

EB1190EM

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	1.384	1.429	0.969	722.5	0.137	0.274
	40	5200						
	48	5240						
	52	5260	1.384	1.429	0.969	722.5	0.137	0.274
	56	5280						
	64	5320						
	100	5500	1.384	1.429	0.969	722.5	0.137	0.274
	116	5580						
	140	5700						
	144	5720						

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

EB1190EM

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	1.279	1.324	0.966	781.9	0.15	0.3
	40	5200						
	48	5240						
	52	5260	1.279	1.324	0.966	781.9	0.15	0.3
	56	5280						
	64	5320						
	100	5500	1.279	1.324	0.966	781.9	0.15	0.3
	116	5580						
	140	5700						
	144	5720						

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

EB1190EM

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	0.627	0.670	0.936	1594.9	0.287	0.574
	46	5230						
	54	5270	0.627	0.670	0.936	1594.9	0.287	0.574
	62	5310						
	102	5510	0.627	0.670	0.936	1594.9	0.287	0.574
	110	5550						
	134	5670						
	142	5710						

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

EB1207

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	0.627	0.670	0.936	1594.9	0.287	0.574
	46	5230						
	54	5270	0.627	0.670	0.936	1594.9	0.287	0.574
	62	5310						
	102	5510	0.627	0.670	0.936	1594.9	0.287	0.574
	110	5550						
	134	5670						
	142	5710						

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

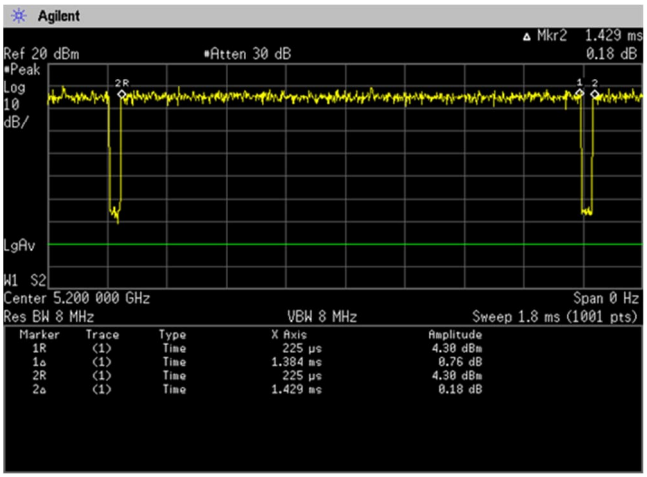
EB1190EM

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	0.323	0.358	0.902	3096.0	0.448	0.896
	58	5290	0.323	0.358	0.902	3096.0	0.448	0.896
	106	5530	0.323	0.358	0.902	3096.0	0.448	0.896
	121	5610	0.323	0.358	0.902	3096.0	0.448	0.896
	138	5690	0.323	0.358	0.902	3096.0	0.448	0.896

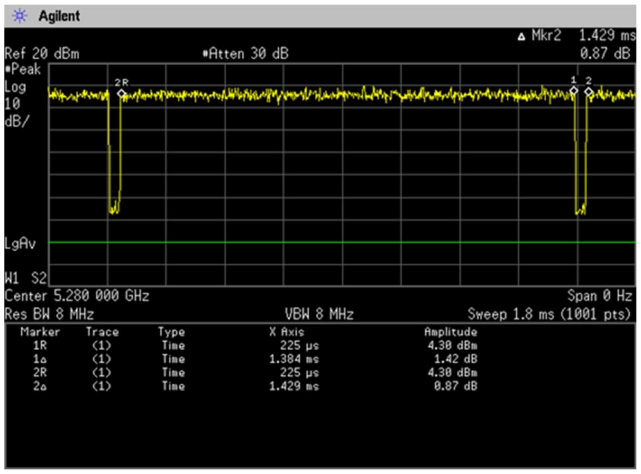
Note: X = On time / (On + Off time)

4.7.4 Trace data

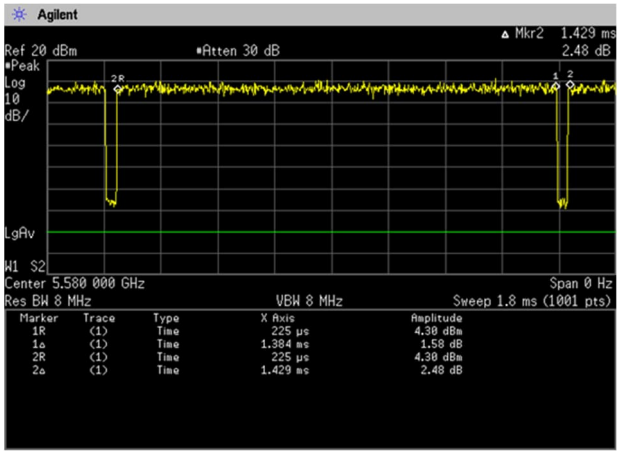
EB1190EM [IEEE802.11a]
(5.2 GHz Band)
Channel: 40



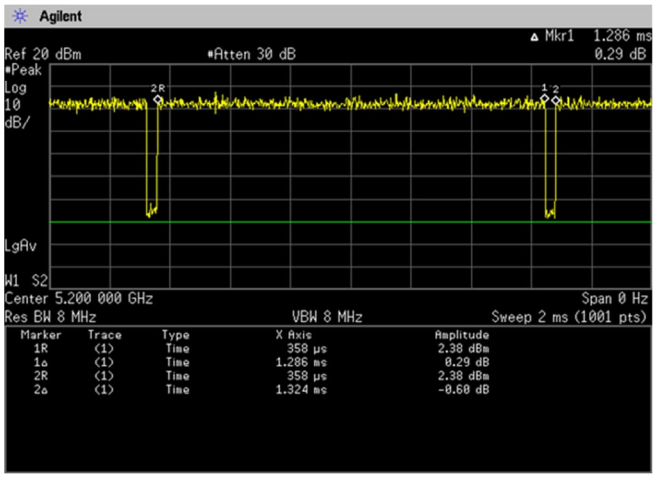
(5.3 GHz Band)
Channel: 56



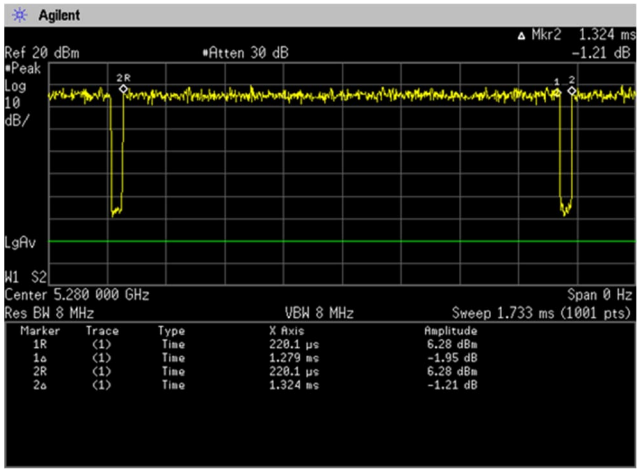
(5.6 GHz Band)
Channel: 116



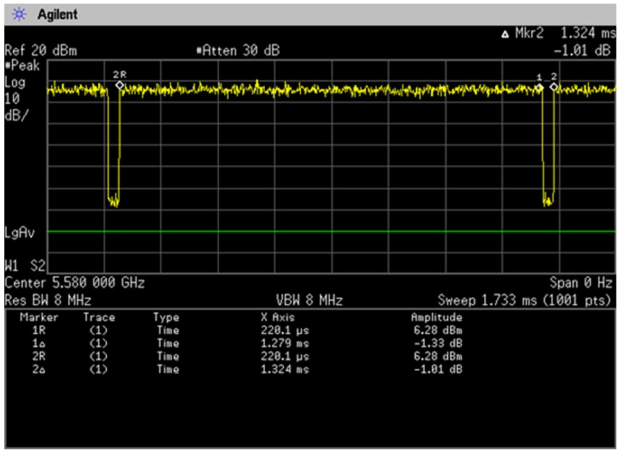
EB1190EM [IEEE802.11n (HT20)]
(5.2 GHz Band)
Channel: 40



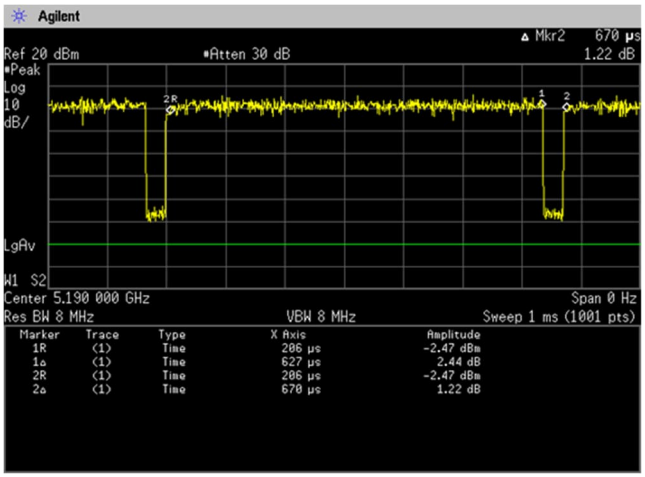
(5.3 GHz Band)
Channel: 56



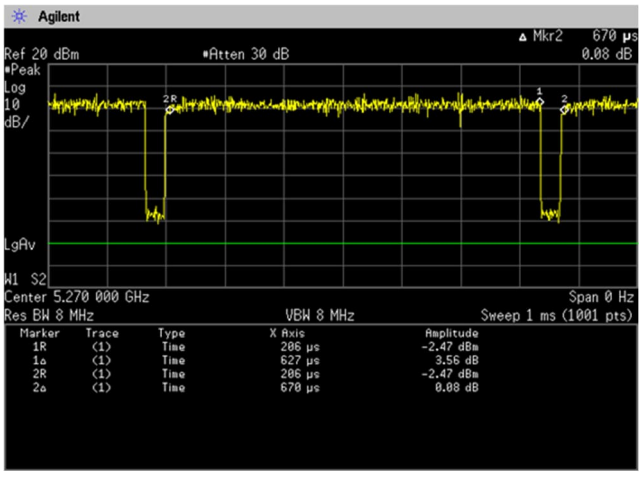
(5.6 GHz Band)
Channel: 116



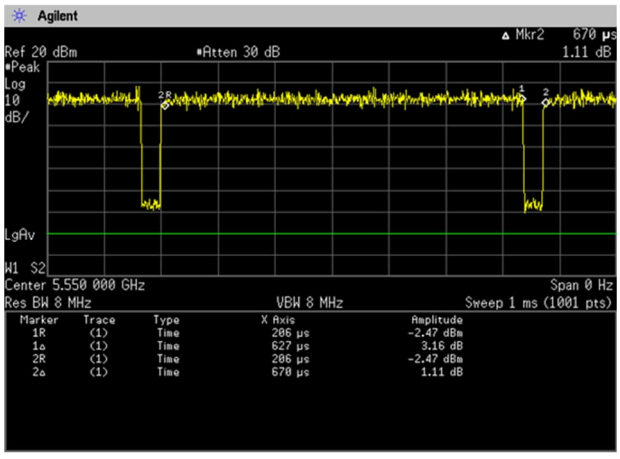
EB1190EM [IEEE802.11n (HT40)]
(5.2 GHz Band)
Channel: 38



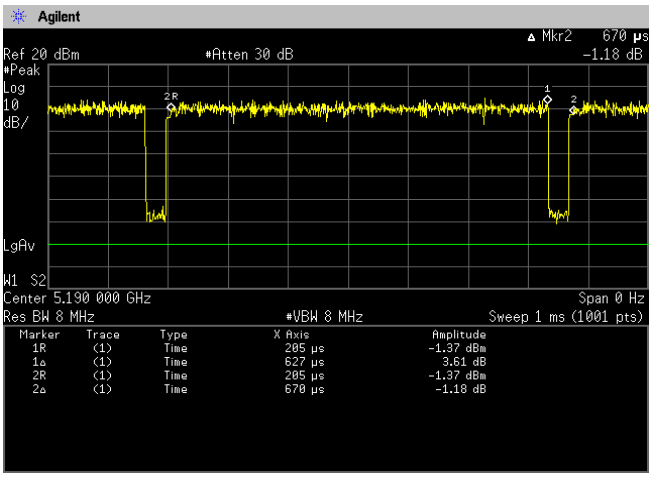
(5.3 GHz Band)
Channel: 54



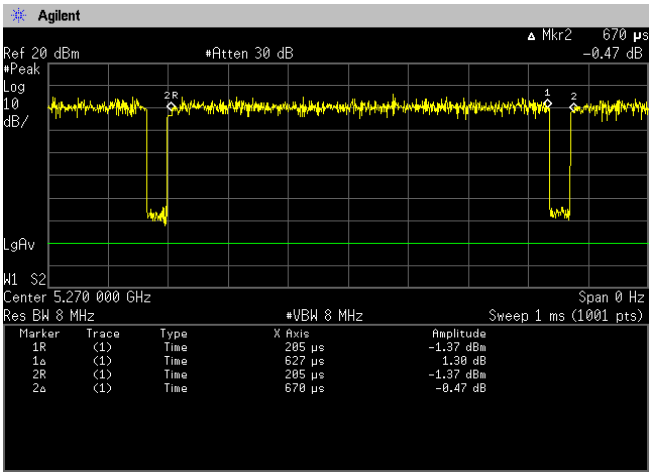
(5.6 GHz Band)
Channel: 110



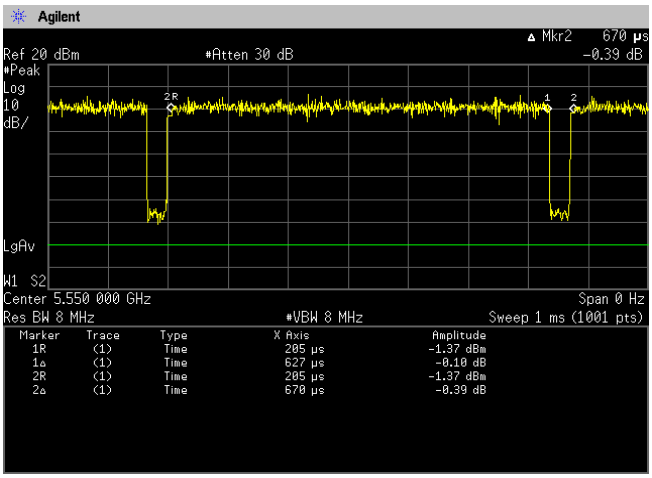
EB1207 [IEEE802.11n (HT40)]
(5.2 GHz Band)
Channel: 38



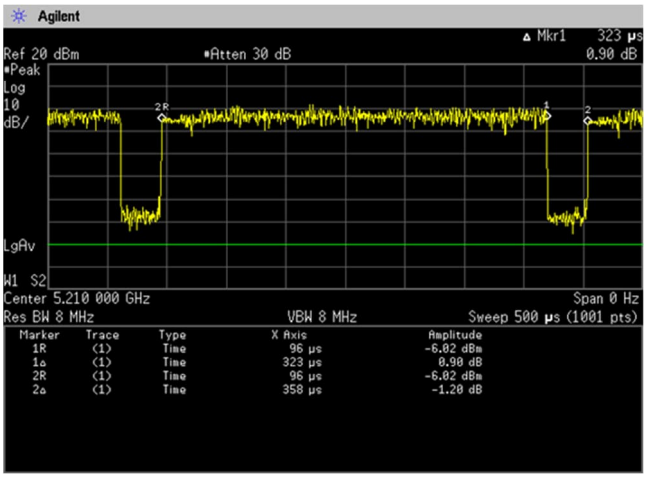
(5.3 GHz Band)
Channel: 54



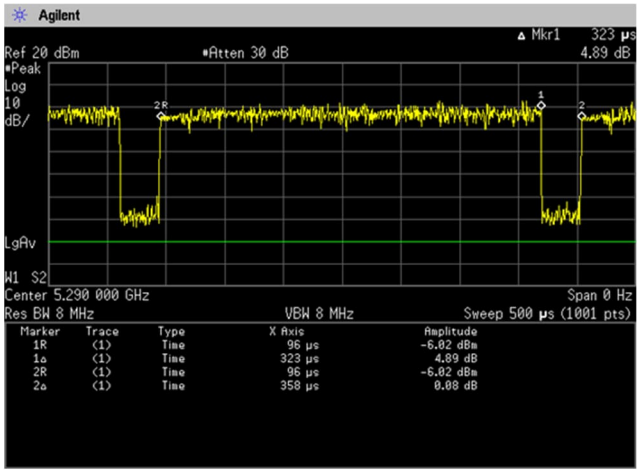
(5.6 GHz Band)
Channel: 110



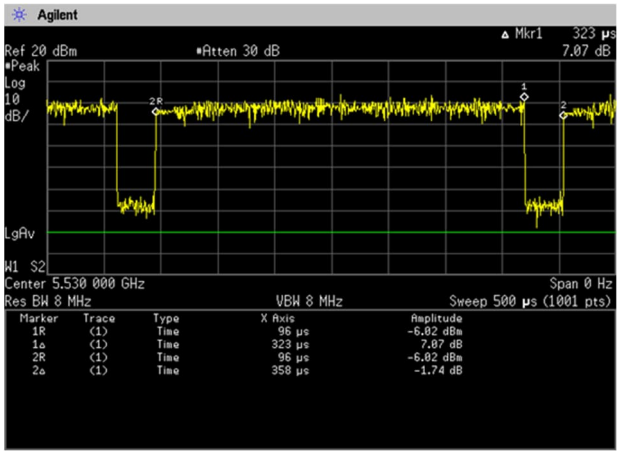
EB1190EM [IEEE802.11ac (HT80)]
(5.2 GHz Band)
Channel: 42



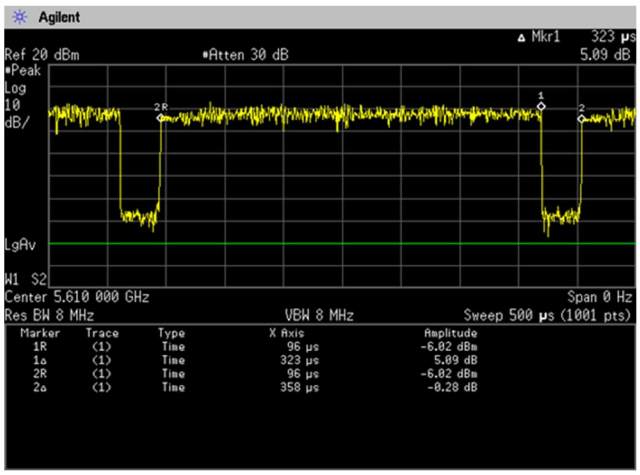
(5.3 GHz Band)
Channel: 58



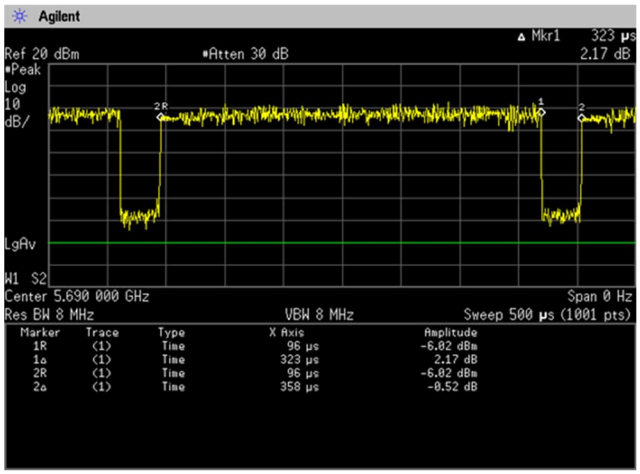
(5.6 GHz Band)
Channel: 106



(5.6 GHz Band)
Channel: 122



Channel: 138



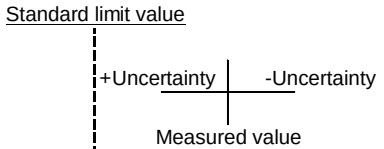
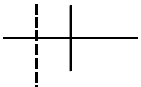
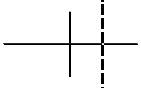
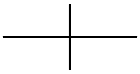
5 Antenna requirement

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)	± 3.7 dB
Conducted emission, AMN (150 kHz – 30 MHz)	± 3.3 dB
Radiated emission (9kHz – 30 MHz)	± 3.7 dB
Radiated emission (30 MHz – 1000 MHz)	± 5.4 dB
Radiated emission (1 GHz – 6 GHz)	± 5.1 dB
Radiated emission (6 GHz – 18 GHz)	± 4.8 dB
Radiated emission (18 GHz – 40 GHz)	± 6.0 dB
Radio Frequency	$\pm 0.9 * 10^{-7}$
RF power, conducted	± 0.6 dB
Effective radiated power	± 4.3 dB
Radiated spurious emissions	± 4.4 dB
Adjacent channel power	± 1.5 dB
Bandwidth	± 2.8 %
Temperature	± 0.6 °C
Humidity	± 1.2 %
Voltage (DC)	± 0.4 %
Voltage (AC, <10kHz)	± 0.2 %

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

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

Antenna port conducted test

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
Spectrum analyzer	Agilent Technologies	E4440A	US44302655	31-Oct-2024	06-Oct-2023
Attenuator	Weinschel	56-10	J4993	31-Dec-2024	19-Dec-2023
Micro wave cable	Junkosha Inc.	MWX221/1m	N/A(S400)	31-Mar-2025	7-Mar-2024
Low temperature and humidity chamber	Espec	PL1KP	14007261	30-Jun-2024	30-Jun-2023
				30-Jun-2025	12-Jun-2024

Radiated emission

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI receiver	ROHDE&SCHWARZ	ESW44	103171	31-Oct-2024	19-Oct-2023
Spectrum analyzer	ROHDE&SCHWARZ	FSV40	101731	31-Aug-2024	16-Aug-2023
Preamplifier	SONOMA	310	372170	30-Sep-2024	21-Sep-2023
Loop antenna	TESEQ	HLA6121	65079	31-Aug-2024	01-Aug-2023
Attenuator	TOYO Connector	NA-PJ-6/6dB	N/A(S542)	30-Jun-2024	22-Jun-2023
				30-Jun-2025	20-Jun-2024
Biconical antenna	Schwarzbeck	VHBB9124/BBA9106	1344	30-Jun-2024	19-Jun-2023
Biconical antenna	Schwarzbeck	VHBB9124/BBA9106	1145	31-Jul-2024	14-Jul-2023
Biconical antenna	Schwarzbeck	VHA9103/BBA9106	VHA91032851	30-Jun-2025	20-Jun-2024
Log periodic antenna	Schwarzbeck	VUSLP9111B	346	31-Dec-2024	22-Dec-2023
Attenuator	TOYO Connector	NA-PJ-6/6dB	N/A(S541)	30-Sep-2024	21-Sep-2023
Attenuator	TAMAGAWA.ELEC	CFA-10/3dB	N/A(S503)	31-Jul-2024	20-Jul-2023
				31-Jul-2025	9-Jul-2024
Preamplifier	TSJ	MLA-100M18-B02-40	1929118	31-Dec-2024	19-Dec-2023
Attenuator	AEROFLEX	26A-10	081217-08	31-Dec-2024	19-Dec-2023
Double ridged guide antenna	ETS LINDGREN	3117	00052315	30-Jun-2024	22-Jun-2023
				30-Jun-2025	11-Jun-2024
Attenuator	HUBER+SUHNER	6803.17.B	N/A(2340)	31-Dec-2024	20-Dec-2023
Double ridged guide antenna	A.H.Systems Inc.	SAS-574	469	31-Aug-2024	8-Aug-2023
Preamplifier	TSJ	MLA-1840-B03-35	1240332	31-Aug-2024	8-Aug-2023
Notch Filter	Micro-Tronics	BRM50716	006	31-Jul-2024	19-Jul-2023
				31-Jul-2025	19-Jul-2023
Microwave cable	HUBER+SUHNER	SUCOFLEX104/9m	800690/4	31-Oct-2024	20-Oct-2023
		SUCOFLEX104/1m	my24610/4	31-Dec-2024	20-Dec-2023
		SUCOFLEX104/9m	2001099/4	31-Dec-2024	20-Dec-2023
		SUCOFLEX104/1m	MY32976/4	31-Dec-2024	20-Dec-2023
		SUCOFLEX104/2m	SN MY28404/4	31-Dec-2024	20-Dec-2023
		SUCOFLEX104/7m	41625/6	31-Dec-2024	21-Dec-2023
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-2024	28-May-2023
				31-May-2025	14-May-2024
3m Semi an-echoic Chamber	TOKIN	N/A	N/A(9002-SVSWR)	31-May-2024	28-May-2023
				31-May-2025	14-May-2024

Conducted emission at mains port

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI receiver	ROHDE&SCHWARZ	ESW44	103171	31-Oct-2024	19-Oct-2023
Attenuator	HUBER+SUHNER	6810.01.A	N/A (S411)	31-Dec-2024	20-Dec-2023
Line impedance stabilization network	Kyoritsu Electrical Works, Ltd.	TNW-407F2	12-17-110-2	30-Jun-2024	22-Jun-2023
				30-Jun-2025	20-Jun-2024
Microwave cable	HUBER+SUHNER	SUCOFLEX104/5m	MY33601/4	31-Dec-2024	20-Dec-2023
Microwave cable	HUBER+SUHNER	SUCOFLEX104/2m	MY37268/4	31-Dec-2024	20-Dec-2023
Coaxial cable	HUBER+SUHNER	RG214/U/10m	N/A (S194)	31-Dec-2024	21-Dec-2023
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.