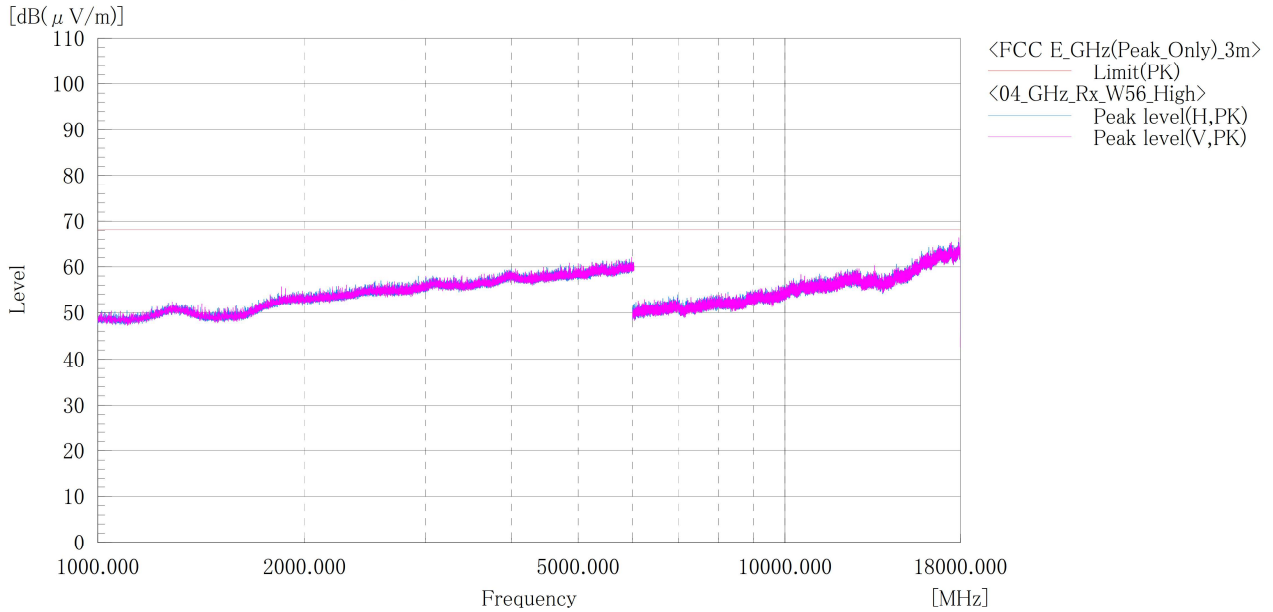




**5.6 GHz Band / Channel High
ABOVE 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1086
 Serial No. : N/A
 Test mode : WLAN_W56_11a_Rx_High

Standard : FCC Part.15 subpart E
 Operator : C.Kanno
 Temp,Hum,Atm : 23.3[°C] 71.2[%]
 Note1 : ch:140_5700MHz
 Note2 :



Final Result

No.	Frequency (P) [MHz]	c.f [dB(1/m)]	Height [cm]	Angle [°]	Remark
-----	------------------------	------------------	----------------	---------------	--------

Note:

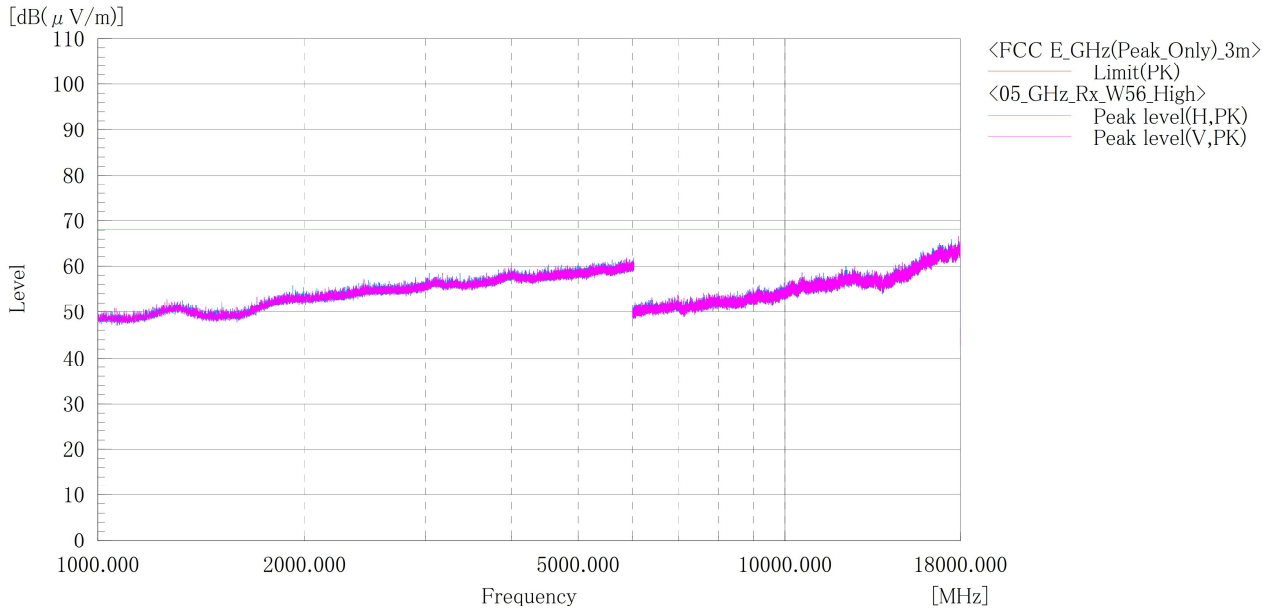
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



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

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1086
 Serial No. : N/A
 Test mode : WLAN_W56_11a_Rx_High

Standard : FCC Part.15 subpart E
 Operator : C.Kanno
 Temp,Hum,Atm : 23.3[°C] 71.2[%]
 Note1 : ch:144_5720MHz
 Note2 :



Final Result

No.	Frequency (P) [MHz]	c. f [dB(1/m)]	Height [cm]	Angle [°]	Remark
-----	------------------------	-------------------	----------------	---------------	--------

Note:

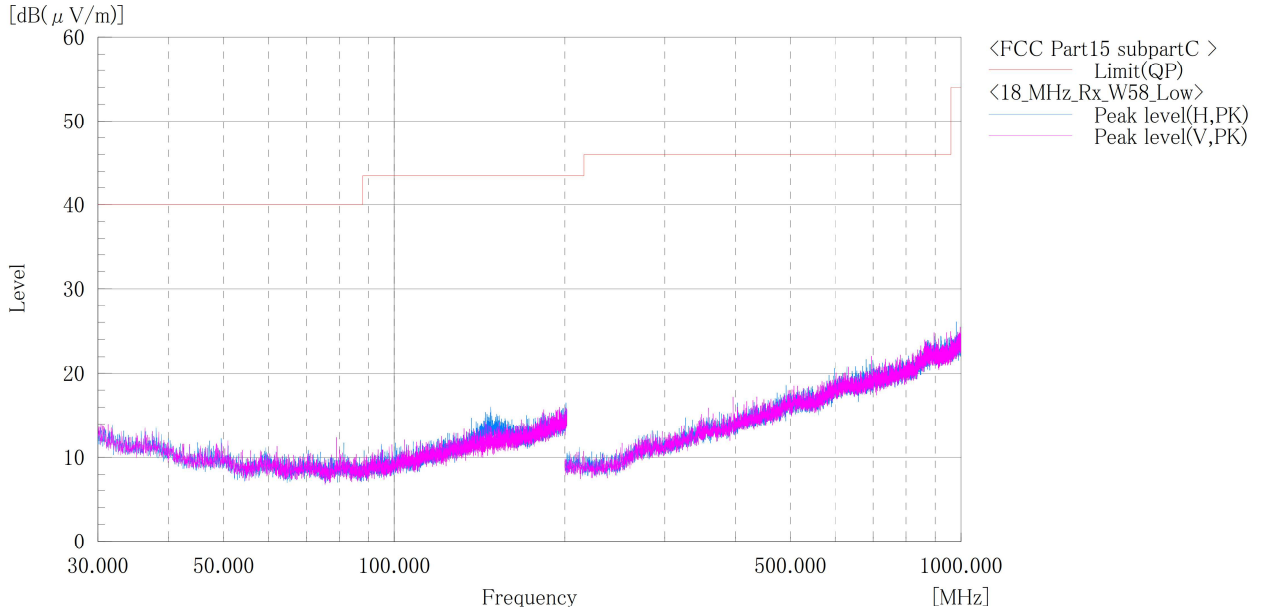
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 18GHz to 40GHz at the 3 meters distance.



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

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1086
 Serial No. : N/A
 Test mode : 5GHz_W58_Rx_Low

Standard : FCC Part.15 subpartE
 Operator : C.Kanno
 Temp,Hum,Atm : 23.3[°C] 71.2[%]
 Note1 : Ch:149_5745MHz
 Note2 :



Final Result

No.	Frequency (P) [MHz]	c. f [dB(1/m)]	Height [cm]	Angle [°]	Remark
-----	------------------------	-------------------	----------------	---------------	--------

Note:

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

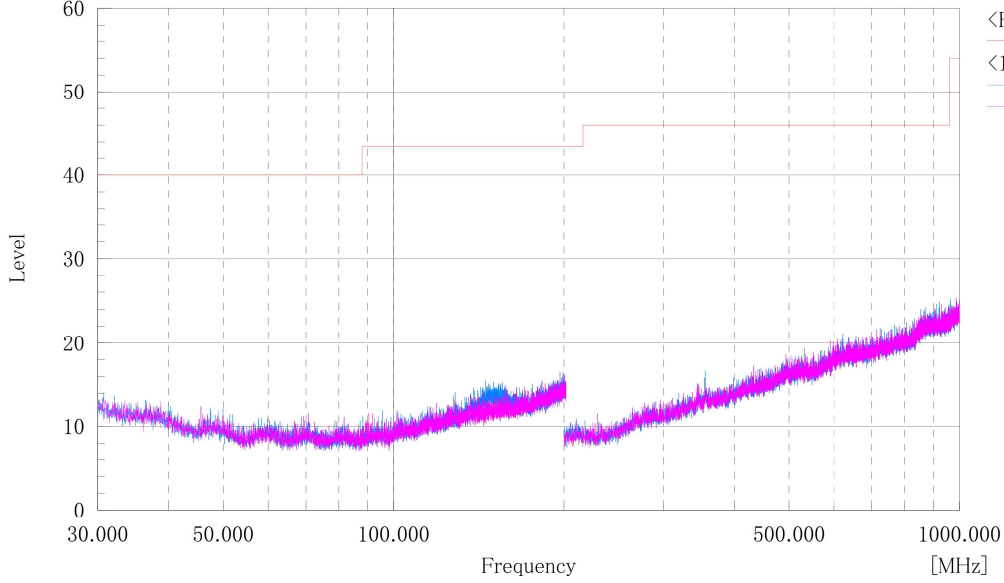


**5.8 GHz Band / Channel Mid
BELOW 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1086
 Serial No. : N/A
 Test mode : 5GHz_W58_Rx_Mid

Standard : FCC Part.15 subpartE
 Operator : C.Kanno
 Temp,Hum,Atm : 23.3[°C] 71.2[%]
 Note1 : Ch:157_5785MHz
 Note2 :

[dB(μV/m)]



<FCC Part15 subpartC >
 Limit(QP)
 <19_MHz_Rx_W58_Mid>
 Peak level(H,PK)
 Peak level(V,PK)

Final Result

No.	Frequency (P) [MHz]	c.f [dB(1/m)]	Height [cm]	Angle [°]	Remark
-----	------------------------	------------------	----------------	--------------	--------

Note:

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

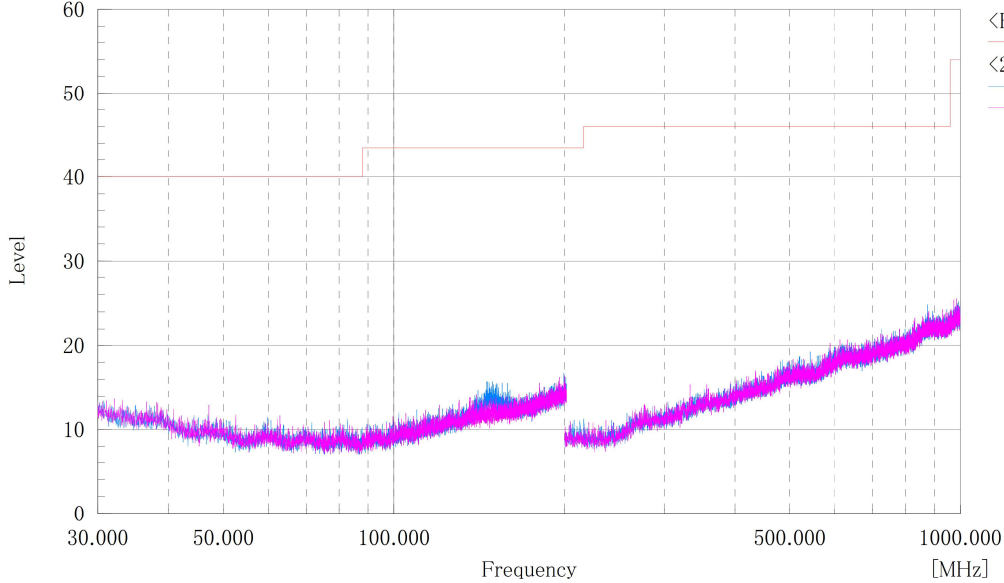


**5.8 GHz Band / Channel High
BELOW 1GHz**

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1086
 Serial No. : N/A
 Test mode : 5GHz_W58_Rx_High

Standard : FCC Part.15 subpartE
 Operator : C.Kanno
 Temp,Hum,Atm : 23.3[°C] 71.2[%]
 Note1 : Ch:165_5825MHz
 Note2 :

[dB(μV/m)]



<FCC Part15 subpartC >
 Limit(QP)
 <20_MHz_Rx_W58_High>
 Peak level(H,PK)
 Peak level(V,PK)

Final Result

No.	Frequency (P) [MHz]	c.f [dB(1/m)]	Height [cm]	Angle [°]	Remark
-----	------------------------	------------------	----------------	---------------	--------

Note:

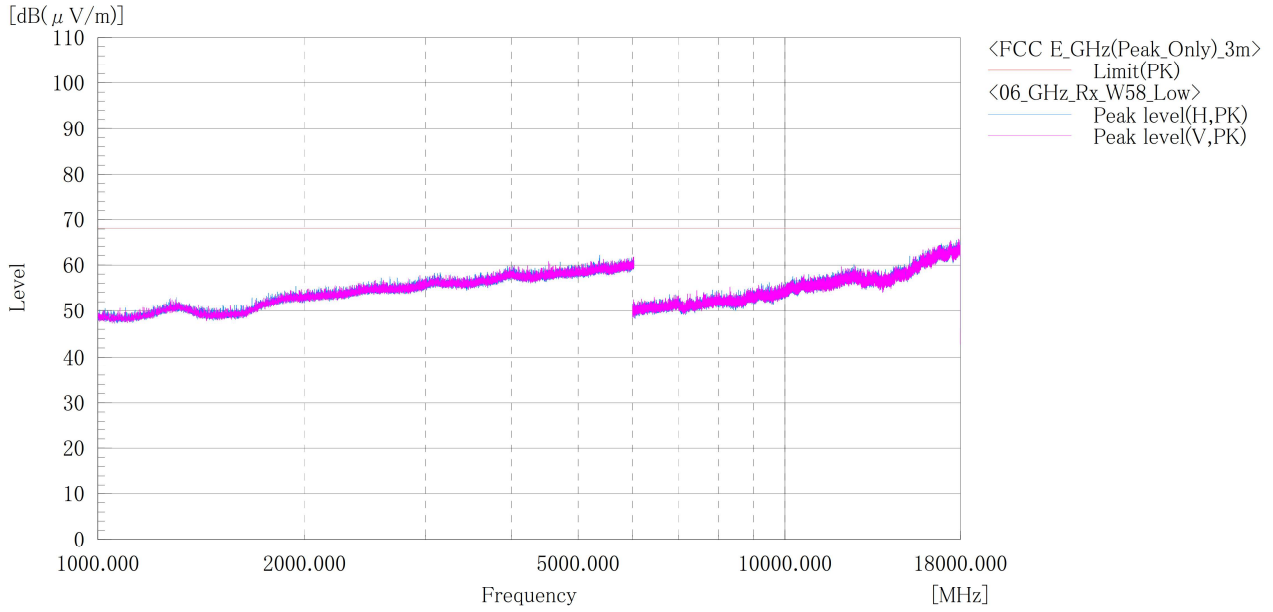
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



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

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1086
 Serial No. : N/A
 Test mode : WLAN_W58_11a_Rx_Low

Standard : FCC Part.15 subpart E
 Operator : C.Kanno
 Temp,Hum,Atm : 23.3[°C] 71.2[%]
 Note1 : ch:149_5745MHz
 Note2 :



Final Result

No.	Frequency (P) [MHz]	c.f [dB(1/m)]	Height [cm]	Angle [°]	Remark
-----	------------------------	------------------	----------------	--------------	--------

Note:

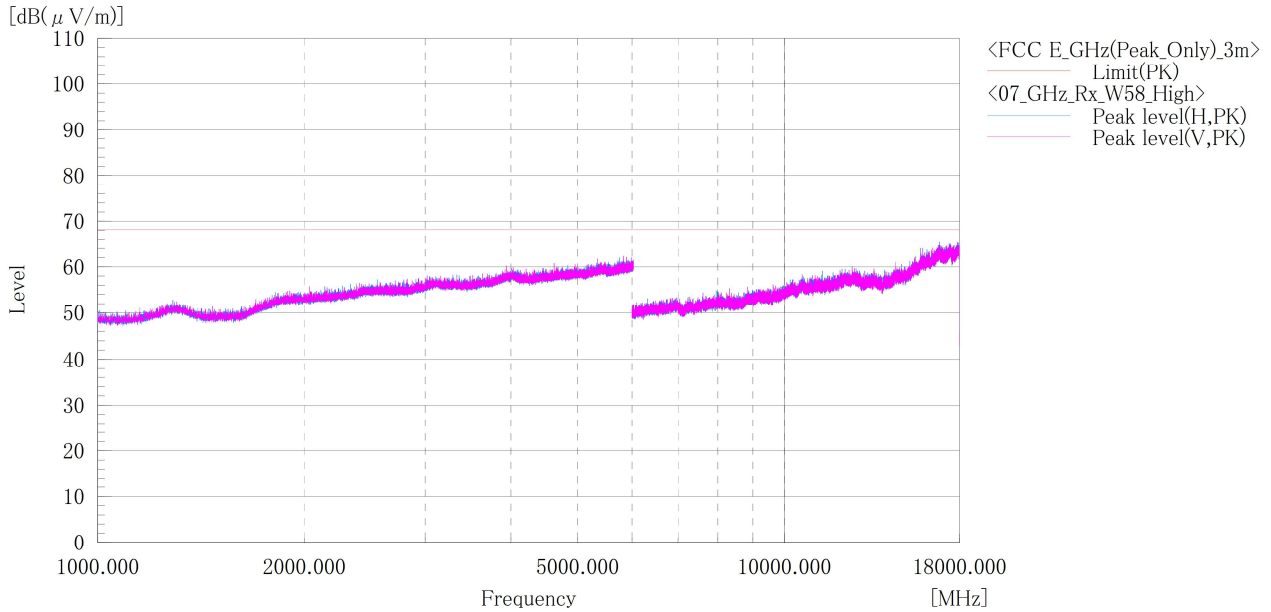
1. Emission Level (Margin) = Limit - [Reading + Factor (Antenna + Cable – Amp)]
2. No emission were detected in frequency range 9kHz to 1000MHz at the 3 meters distance.



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

Company name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1086
 Serial No. : N/A
 Test mode : WLAN_W58_11a_Rx_High

Standard : FCC Part.15 subpart E
 Operator : C.Kanno
 Temp,Hum,Atm : 23.3[°C] 71.2[%]
 Note1 : ch:165_5825MHz
 Note2 :



Final Result

No.	Frequency (P) [MHz]	c.f [dB(1/m)]	Height [cm]	Angle [°]	Remark
-----	------------------------	------------------	----------------	--------------	--------

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.

4.6 Frequency Stability

4.6.1 Measurement procedure

[FCC 15.407(g)]

The EUT was placed on the inside of a constant temperature chamber as the temperature in the chamber was varied between -30°C and $+60^{\circ}\text{C}$. 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 channel's center frequency was recorded.

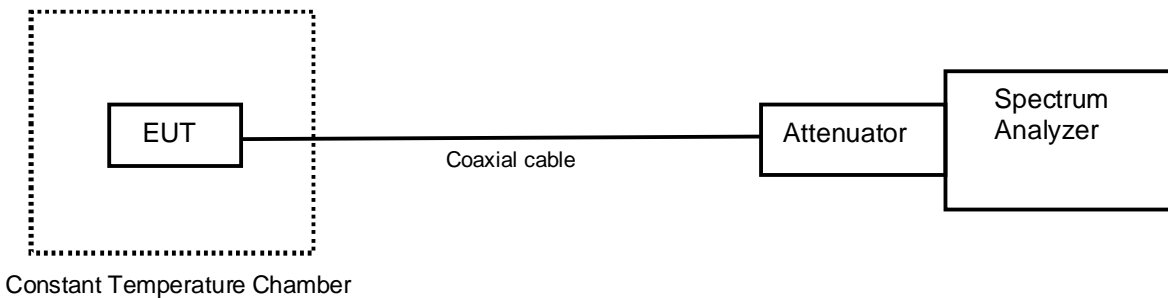
The EUT was set to operate with following conditions.

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

The test mode of EUT is as follows.

- Tx mode

- Test configuration



4.6.2 Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified.



Japan

4.6.3 Measurement result

Date : 6-September-2021
Temperature : 21.1 [°C]
Humidity : 60.8 [%]
Test place : Shielded room No.4

Test engineer : Kazunori Saito



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

Power Supply	Temperature	Measurements Frequency (startup)	Frequency Tolerance (startup)	Measurements Frequency (2mins)	Frequency Tolerance (2mins)	Measurements Frequency (5mins)	Frequency Tolerance (5mins)	Measurements Frequency (10mins)	Frequency Tolerance (10mins)
[V]	[°C]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]
3.87	25(Ref.)	5180022391	0.00000000	5180034141	2.26832996	5180037370	2.89168634	5180035284	2.48898538
	60	5179997652	-4.77584808	5180012682	-1.87431622	5180013984	-1.62296596	5180015533	-1.32393250
	50	5180008944	-2.59593472	5180012498	-1.90983730	5180006963	-2.97836550	5179993900	-5.50016928
	40	5179999999	-4.32269641	5180011447	-2.11273218	5180004511	-3.45172253	5180018342	-0.78165685
	30	5180038757	3.15944580	5180011163	-2.16755820	5180005924	-3.17894379	5180020972	-0.27393704
	20	5180039382	3.28010165	5180046778	4.70789471	5180052783	5.86715611	5180030242	1.51563051
	10	5180052887	5.88723324	5180053290	5.96503213	5180049791	5.28955243	5180032665	1.98338911
	0	5180063120	7.86270733	5180033783	2.19921829	5180055186	6.33105371	5180049260	5.18704322
	-10	5180060722	7.39977496	5180057909	6.85672712	5180066204	8.45807155	5180074151	9.99223480
	-20	5180062951	7.83008198	5180044075	4.18608229	5180037916	2.99709129	5180064415	8.11270624
	-30	5179992326	-5.80402897	5180057103	6.70112933	5180031055	1.67257964	5180061010	7.45537318
3.48	25	5180041474	3.68396091	5180019166	-0.62258418	5180008717	-2.63975693	5180042668	3.91446184
4.26	25	5180042069	3.79882528	5180025209	0.54401309	5180014657	-1.49304374	5180026640	0.82026672

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

Channel: 64 (5320 MHz)

Power Supply	Temperature	Measurements Frequency (startup)	Frequency Tolerance (startup)	Measurements Frequency (2mins)	Frequency Tolerance (2mins)	Measurements Frequency (5mins)	Frequency Tolerance (5mins)	Measurements Frequency (10mins)	Frequency Tolerance (10mins)
[V]	[°C]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]	[Hz]	[ppm]
3.87	25(Ref.)	5320031318	0.00000000	5320002453	-5.42571994	5320019387	-2.24265597	5320012744	-3.49133283
	60	5320003343	-5.25842769	5320010423	-3.92760846	5320000001	-5.88662251	5319997459	-6.36443622
	50	5320007798	-4.42102661	5319996701	-6.50691658	5320009485	-4.10392321	5319993349	-7.13698806
	40	5319996110	-6.61800615	5320023234	-1.51953993	5320000000	-5.88673476	5319997855	-6.29000057
	30	5320010371	-3.93738284	5320002832	-5.35447976	5319997336	-6.38755638	5320010087	-3.99076598
	20	5320047329	3.00956875	5320019353	-2.24904691	5320029612	-0.32067480	5320003989	-5.13699983
	10	5320041368	1.88908662	5320030962	-0.06691690	5320042152	2.03645418	5320036252	0.92743815
	0	5320069574	7.19093511	5320058888	5.18230032	5320066815	6.67232914	5320049274	3.37516810
	-10	5320026005	-0.99867833	5320055175	4.48437210	5320047518	3.04509486	5320058663	5.14000734
	-20	5320058575	5.12346608	5320510385	90.04965786	5320059896	5.37177289	5320046039	2.76708897
	-30	5320030236	-0.20338226	5320046913	2.93137372	5320040095	1.64980232	5320041538	1.92104132
3.48	25	5320005982	-4.76237798	5320029884	-0.26954729	5320000000	-5.88687343	5320007194	-4.53455977
4.26	25	5320020870	-1.96389821	5320000000	-5.88684520	5320006360	-4.69132577	5320020269	-2.07686747

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



Channel: 144 (5720 MHz)

Power Supply [V]	Temperature [°C]	Measurements Frequency (startup) [Hz]	Frequency Tolerance (startup) [ppm]	Measurements Frequency (2mins) [Hz]	Frequency Tolerance (2mins) [ppm]	Measurements Frequency (5mins) [Hz]	Frequency Tolerance (5mins) [ppm]	Measurements Frequency (10mins) [Hz]	Frequency Tolerance (10mins) [ppm]
3.87	25(Ref.)	5720015405	0.00000000	5719993745	-3.78670309	5719990961	-4.27341506	5720013961	-0.25244687
	60	5719997019	-3.21432701	5719989301	-4.56362407	5719992498	-4.00470949	5719997459	-3.13740414
	50	5719969288	-8.06239087	5719998269	-2.99579613	5719981820	-5.87148768	5719991433	-4.19089780
	40	5719974554	-7.14176398	5720002913	-2.18391020	5719985223	-5.27655922	5719999999	-2.69333749
	30	5720003745	-2.03845605	5720009724	-0.99317914	5719990326	-4.38442875	5719995516	-3.47708854
	20	5720015186	-0.03828661	5720003345	-2.10838593	5720013000	-0.42045341	5720025020	1.68093953
	10	5720039258	4.17009366	5720021392	1.04667550	5720051058	6.23302517	5720034949	3.41677401
	0	5720018542	0.54842510	5720029778	2.51275547	5720039515	4.21502361	5720061122	7.99246099
	-10	5720064875	8.64857811	5720034643	3.36327766	5720060891	7.95207649	5720043648	4.93757411
	-20	5720035498	3.51275278	5720050690	6.16868968	5720055621	7.03075030	5720037370	3.84002462
-30	5720029515	2.46677657	5720028686	2.32184689	5720023732	1.45576531	5720021610	1.08478729	
3.48	25	5720020777	0.93915831	5720014639	-0.13391572	5720008063	-1.28356298	5720008451	-1.21573099
4.26	25	5720020784	0.94038208	5720013465	-0.33915993	5720006181	-1.61258307	5720005941	-1.65454100

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

Channel: 165 (5825 MHz)

Power Supply [V]	Temperature [°C]	Measurements Frequency (startup) [Hz]	Frequency Tolerance (startup) [ppm]	Measurements Frequency (2mins) [Hz]	Frequency Tolerance (2mins) [ppm]	Measurements Frequency (5mins) [Hz]	Frequency Tolerance (5mins) [ppm]	Measurements Frequency (10mins) [Hz]	Frequency Tolerance (10mins) [ppm]
3.87	25(Ref.)	5825002655	0.00000000	5825010879	1.41184485	5825003612	0.16429177	5825005029	0.40755346
	60	5825002388	-0.04583689	5824987851	-2.54145807	5824982824	-3.40446197	5824993068	-1.64583616
	50	5824988918	-2.35828219	5825008579	1.01699524	5824981060	-3.70729445	5824988131	-2.49338942
	40	5825010184	1.29253160	5824989920	-2.18626510	5825009225	1.12789648	5824988396	-2.44789588
	30	5825012081	1.61819669	5825008718	1.04085789	5824996437	-1.06746732	5825000000	-0.45581527
	20	5825028985	4.52016961	5825023377	3.55742327	5825014080	1.96137250	5825267683	45.49834836
	10	5825044502	7.18403106	5825014798	2.08463424	5825017309	2.51570701	5825023029	3.49768081
	0	5825044947	7.26042588	5825059643	9.78334318	5825040921	6.56926739	5825047398	7.68119822
	-10	5825049073	7.96875173	5825066221	10.91261305	5825051508	8.38677729	5825056121	9.17870826
	-20	5825056989	9.32772107	5825036348	5.78420337	5825030961	4.85939693	5825049157	7.98317233
-30	5825024162	3.69218716	5825050141	8.15209929	5825023552	3.58746618	5825035021	5.55639232	
3.48	25	5824998332	-0.74214558	5824993545	-1.56394779	5825014928	2.10695183	5825005320	0.45751052
4.26	25	5825008287	0.96686651	5825014142	1.97201627	5825007911	0.90231719	5825019204	2.84102875

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

4.7 AC Power Line Conducted Emissions

4.7.1 Measurement procedure

[FCC 15.207]

Test was applied by following conditions.

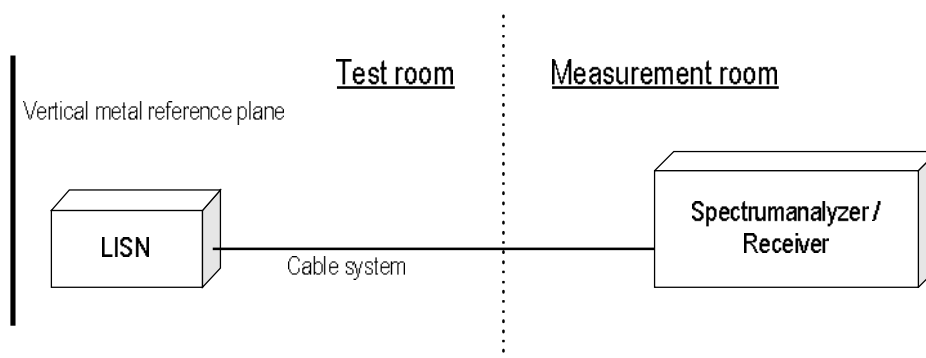
Test method	:	ANSI C63.10
Frequency range	:	0.15 MHz to 30 MHz
Test place	:	3m Semi-anechoic chamber
EUT was placed on	:	FRP table / (W) 2.0 × (D) 1.0 × (H) 0.8 m
Vertical Metal Reference Plane	:	(W) 2.0 × (H) 2.0 m, 0.4 m away from EUT
Test receiver setting		
- Detector	:	Quasi-peak, Average
- Bandwidth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



4.7.2 Calculation method

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

Margin = Limit – Emission level

4.7.3 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.



4.7.4 Test data

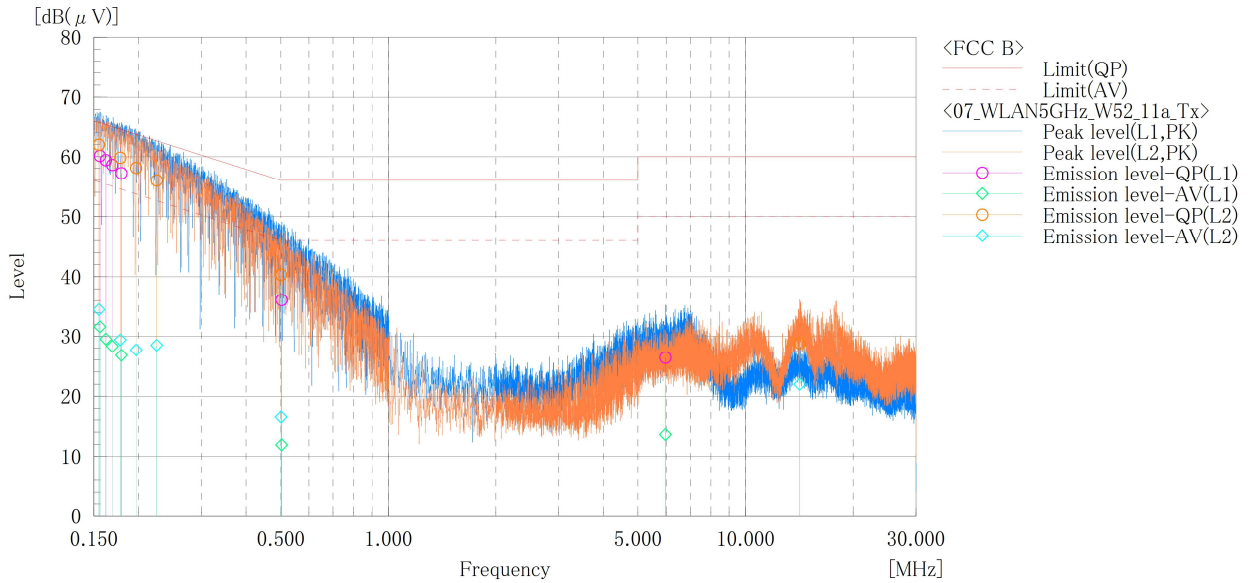
Date : 4-September-2021
 Temperature : 22.6 [°C]
 Humidity : 65.2 [%]
 Test place : 3m Semi-anechoic chamber

Test engineer : Taiki Watanabe

[5.2 GHz Band]

Company Name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1086
 Serial No. : N/A
 Test mode : WLAN_11a_W52_Tx

Standard : FCC Part.15 Subpart E
 Operator : T.Watanabe
 Temp,Hum,Atm : 22.6[°C] 65.2[%]
 Note1 :
 Note2 :



Final Result

--- L1 Phase ---

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	0.156	49.6	21.1	10.5	60.1	31.6	65.7	55.7	5.6	24.1
2	0.162	48.9	19.0	10.5	59.4	29.5	65.4	55.4	6.0	25.9
3	0.169	48.2	17.9	10.4	58.6	28.3	65.0	55.0	6.4	26.7
4	0.179	46.8	16.4	10.4	57.2	26.8	64.5	54.5	7.3	27.7
5	0.503	25.8	1.6	10.3	36.1	11.9	56.0	46.0	19.9	34.1
6	5.971	15.9	3.1	10.5	26.4	13.6	60.0	50.0	33.6	36.4

L2 Phase

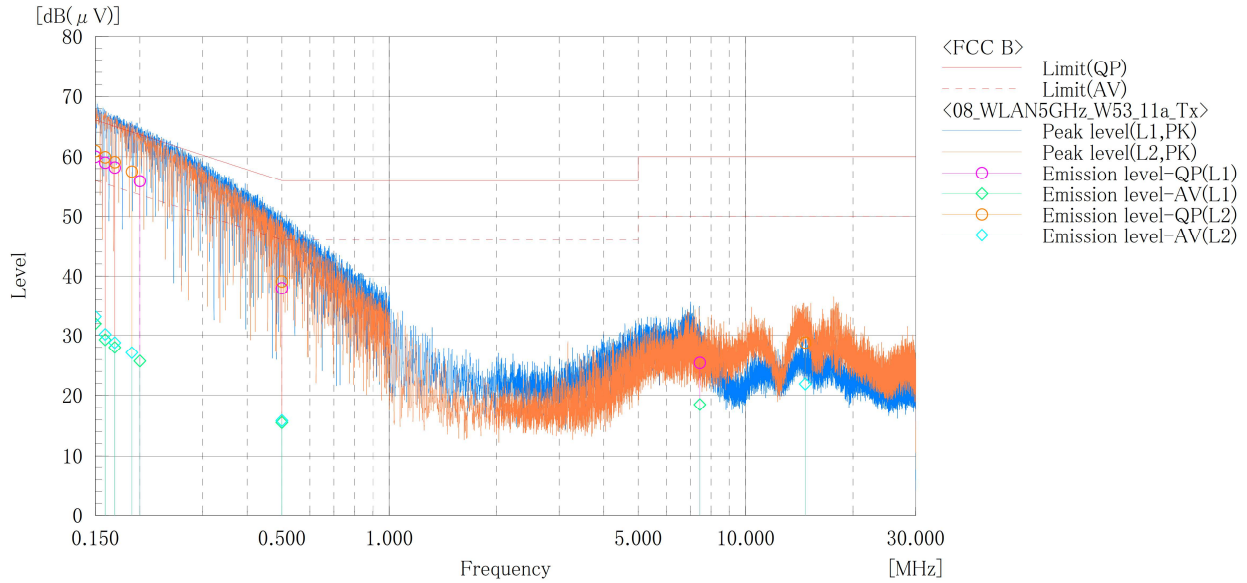
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.155	51.6	24.1	10.4	62.0	34.5	65.7	55.7	3.7	21.2
2	0.178	49.4	19.0	10.4	59.8	29.4	64.6	54.6	4.8	25.2
3	0.197	47.7	17.3	10.4	58.1	27.7	63.7	53.7	5.6	26.0
4	0.225	45.7	18.2	10.3	56.0	28.5	62.6	52.6	6.6	24.1
5	0.501	30.0	6.2	10.3	40.3	16.5	56.0	46.0	15.7	29.5
6	14.163	18.0	11.2	10.8	28.8	22.0	60.0	50.0	31.2	28.0



[5.3 GHz Band]

Company Name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1086
 Serial No. : N/A
 Test mode : WLAN_11a_W53_Tx

Standard : FCC Part.15 Subpart C
 Operator : T.Seino
 Temp,Hum,Atm : 22.9[°C] 69.9[%]
 Note1 :
 Note2 :



Final Result

--- L1 Phase ---

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	0.150	49.4	21.4	10.6	60.0	32.0	66.0	56.0	6.0	24.0
2	0.160	48.5	18.8	10.5	59.0	29.3	65.5	55.5	6.5	26.2
3	0.170	47.7	17.5	10.5	58.2	28.0	65.0	55.0	6.8	27.0
4	0.200	45.4	15.2	10.5	55.9	25.7	63.6	53.6	7.7	27.9
5	0.500	27.6	5.1	10.4	38.0	15.5	56.0	46.0	18.0	30.5
6	7.439	14.5	7.6	10.9	25.4	18.5	60.0	50.0	34.6	31.5

--- L2 Phase ---

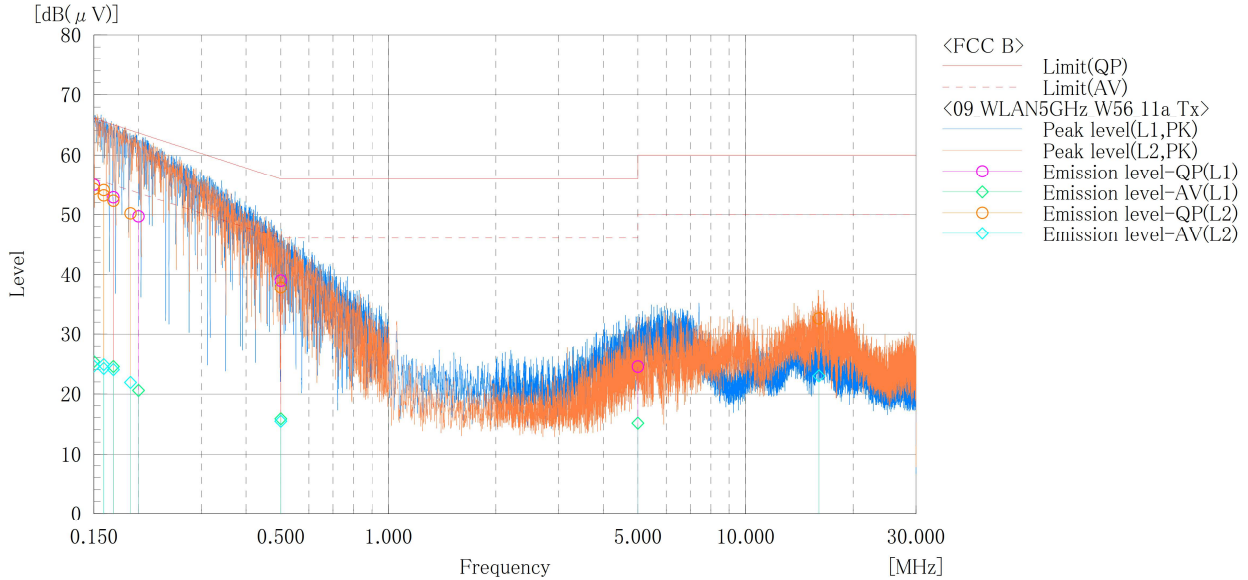
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.150	50.3	22.6	10.6	60.9	33.2	66.0	56.0	5.1	22.8
2	0.160	49.3	19.6	10.6	59.9	30.2	65.5	55.5	5.6	25.3
3	0.170	48.5	18.2	10.6	59.1	28.8	65.0	55.0	5.9	26.2
4	0.190	47.0	16.6	10.5	57.5	27.1	64.0	54.0	6.5	26.9
5	0.500	28.7	5.4	10.4	39.1	15.8	56.0	46.0	16.9	30.2
6	14.690	17.2	10.3	11.6	28.8	21.9	60.0	50.0	31.2	28.1



[5.6 GHz Band]

Company Name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1086
 Serial No. : N/A
 Test mode : WLAN_11a_W56_Tx

Standard : FCC Part.15 Subpart C
 Operator : T.Seino
 Temp,Ilum,Atm : 22.9[°C] 69.9[%]
 Note1 :
 Note2 :



Final Result

--- L1 Phase ---

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	0.150	44.4	14.7	10.6	55.0	25.3	66.0	56.0	11.0	30.7
2	0.170	42.4	14.0	10.5	52.9	24.5	65.0	55.0	12.1	30.5
3	0.200	39.2	10.1	10.5	49.7	20.6	63.6	53.6	13.9	33.0
4	0.500	28.6	5.4	10.4	39.0	15.8	56.0	46.0	17.0	30.2
5	4.999	13.8	4.4	10.7	24.5	15.1	56.0	46.0	31.5	30.9

--- L2 Phase ---

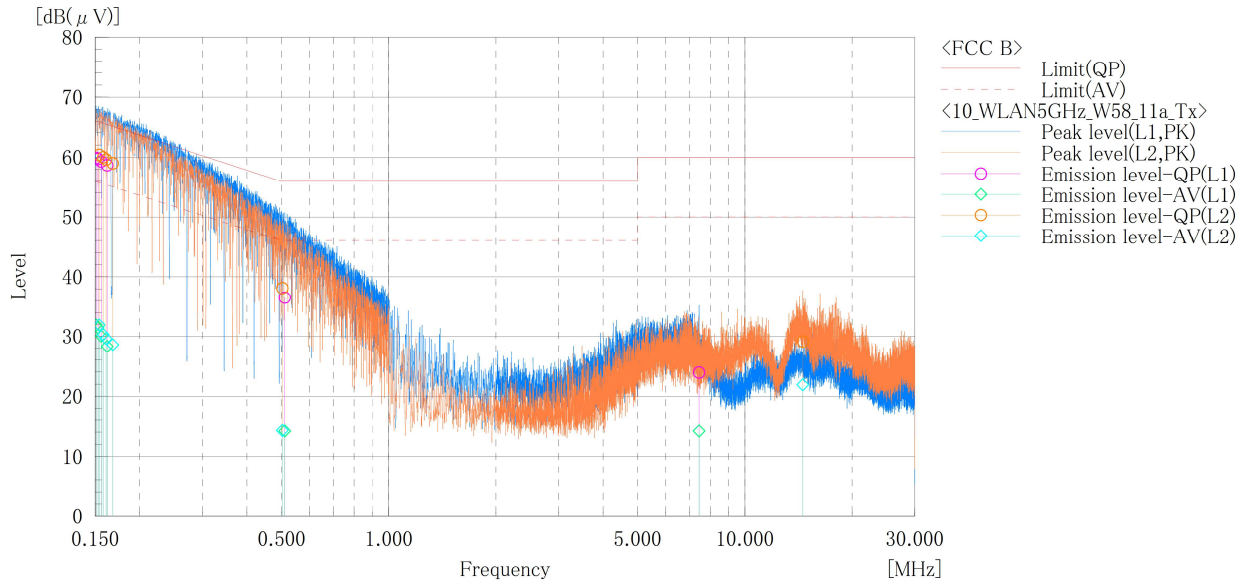
No.	Frequency [MHz]	Reading QP [dB(μV)]	Reading CAV [dB(μV)]	c. f [dB]	Result QP [dB(μV)]	Result CAV [dB(μV)]	Limit QP [dB(μV)]	Limit AV [dB(μV)]	Margin QP [dB]	Margin CAV [dB]
1	0.150	43.7	14.0	10.6	54.3	24.6	66.0	56.0	11.7	31.4
2	0.160	42.6	13.6	10.6	53.2	24.2	65.5	55.5	12.3	31.3
3	0.160	43.5	14.2	10.6	54.1	24.8	65.5	55.5	11.4	30.7
4	0.170	41.7	13.4	10.6	52.3	24.0	65.0	55.0	12.7	31.0
5	0.190	39.7	11.4	10.5	50.2	21.9	64.0	54.0	13.8	32.1
6	0.500	27.4	5.0	10.4	37.8	15.4	56.0	46.0	18.2	30.6
7	16.038	20.8	11.2	11.8	32.6	23.0	60.0	50.0	27.4	27.0



[5.8 GHz Band]

Company Name : KYOCERA Corporation
 EUT : Mobile Phone
 Model No. : EB1086
 Serial No. : N/A
 Test mode : WLAN_11a_W58_Tx

Standard : FCC Part.15 Subpart E
 Operator : T.Watanabe
 Temp,Hum,Atm : 22.5[°C] 65.8[%]
 Note1 :
 Note2 :



Final Result

--- L1 Phase ---

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	0.151	49.3	21.3	10.6	59.9	31.9	65.9	55.9	6.0	24.0
2	0.153	49.1	20.8	10.6	59.7	31.4	65.8	55.8	6.1	24.4
3	0.156	48.8	19.5	10.5	59.3	30.0	65.7	55.7	6.4	25.7
4	0.162	48.2	17.8	10.5	58.7	28.3	65.4	55.4	6.7	27.1
5	0.511	26.1	3.8	10.4	36.5	14.2	56.0	46.0	19.5	31.8
6	7.438	13.0	3.3	10.9	23.9	14.2	60.0	50.0	36.1	35.8

L2 Phase

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	0.154	49.8	21.3	10.6	60.4	31.9	65.8	55.8	5.4	23.9
2	0.158	49.4	19.7	10.6	60.0	30.3	65.6	55.6	5.6	25.3
3	0.161	49.0	19.0	10.6	59.6	29.6	65.4	55.4	5.8	25.8
4	0.168	48.4	18.0	10.6	59.0	28.6	65.1	55.1	6.1	26.5
5	0.503	27.7	3.9	10.4	38.1	14.3	56.0	46.0	17.9	31.7
6	14.536	17.5	10.3	11.6	29.1	21.9	60.0	50.0	30.9	28.1

4.8 Duty Cycle

4.8.1 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

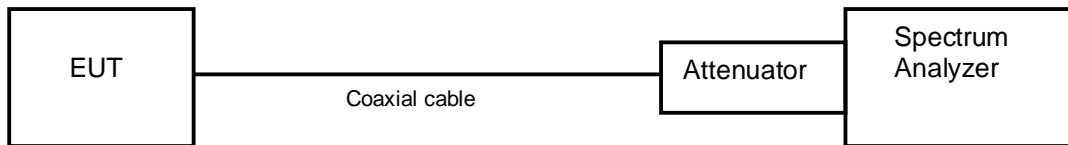
The EUT was set to operate with following conditions.

- 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



4.8.2 Limit

None

4.8.3 Measurement result

Date : 27-August-2021
 Temperature : 24.8 [°C]
 Humidity : 48.3 [%]
 Test place : Shielded room No.3

Test engineer : Tadahiro Seino



Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) $10\log(1/x)$	DCF (dB) $20\log(1/x)$
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11a	36	5180	1.342	1.382	0.971	745.2	0.128	0.255
	40	5200						
	48	5240						
	52	5260	1.342	1.380	0.972	745.2	0.121	0.243
	56	5280						
	64	5320						
	100	5500	1.342	1.382	0.971	745.2	0.128	0.255
	116	5580						
	140	5700						
	144	5720						
	149	5745	1.342	1.382	0.971	745.2	0.128	0.255
	157	5785						
165	5825							

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

Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) $10\log(1/x)$	DCF (dB) $20\log(1/x)$
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11n (20MHz)	36	5180	1.258	1.298	0.969	794.9	0.136	0.272
	40	5200						
	48	5240						
	52	5260	1.256	1.294	0.971	796.2	0.129	0.259
	56	5280						
	64	5320						
	100	5500	1.260	1.298	0.971	793.7	0.129	0.258
	116	5580						
	140	5700						
	144	5720						
	149	5745	1.256	1.296	0.969	796.2	0.136	0.272
	157	5785						
165	5825							

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



Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) $10\log(1/x)$	DCF (dB) $20\log(1/x)$
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11n (40MHz)	38	5190	0.626	0.664	0.943	1597.4	0.256	0.512
	46	5230						
	54	5270	0.628	0.665	0.944	1592.4	0.249	0.497
	62	5310						
	102	5510	0.627	0.664	0.944	1594.9	0.249	0.498
	110	5550						
	134	5670						
	142	5710						
	151	5755	0.626	0.663	0.944	1597.4	0.249	0.499
159	5795							

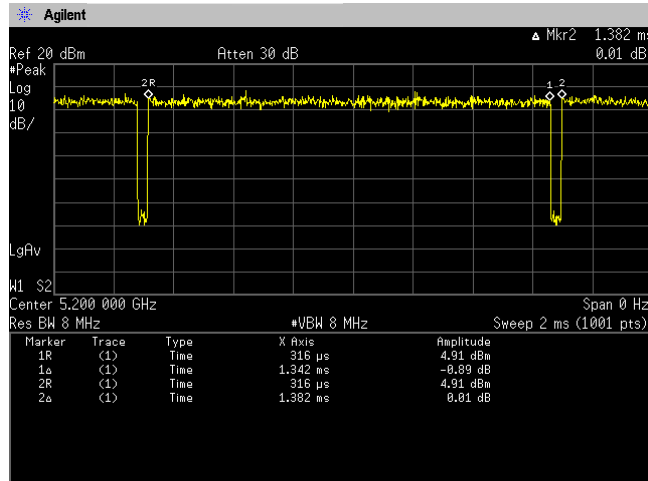
Note: X = On time / (On + Off time)

Mode	Channel	Frequency (MHz)	Duty Cycle				DCF (dB) $10\log(1/x)$	DCF (dB) $20\log(1/x)$
			On Time(ms)	On+Off Time(ms)	X	1/T		
802.11ac (80MHz)	42	5210	0.315	0.352	0.895	3173.6	0.481	0.962
	58	5290	0.315	0.352	0.895	3173.6	0.481	0.962
	106	5530	0.315	0.352	0.894	3178.6	0.488	0.976
	122	5610	0.315	0.352	0.895	3173.6	0.481	0.962
	138	5690	0.315	0.352	0.894	3178.6	0.488	0.976
	155	5775	0.315	0.353	0.894	3173.6	0.488	0.977

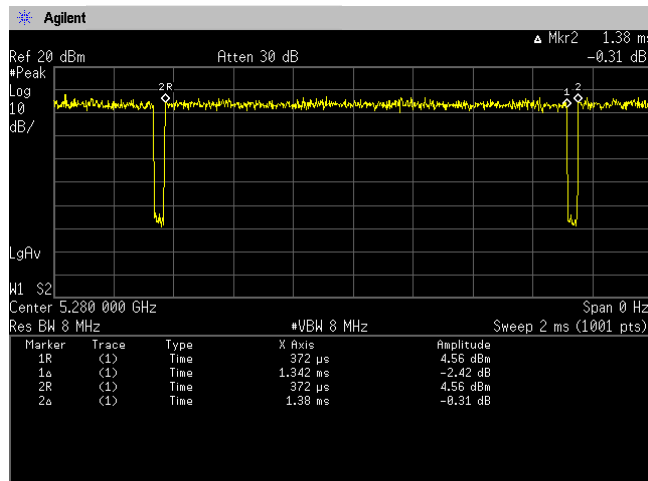
Note: X = On time / (On + Off time)

4.8.4 Trace data

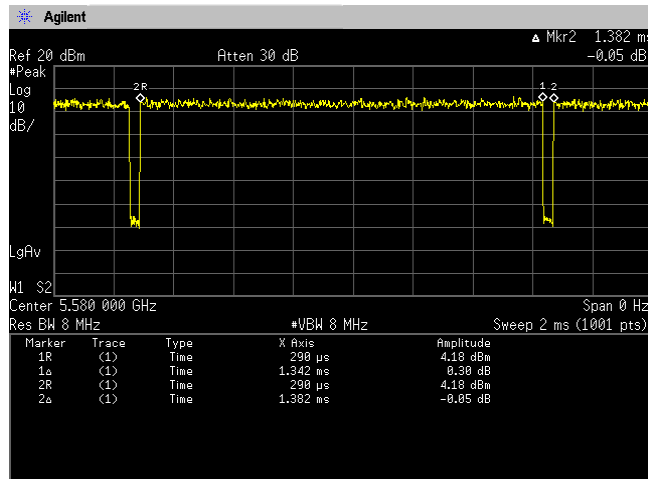
[IEEE802.11a]
Channel: 40



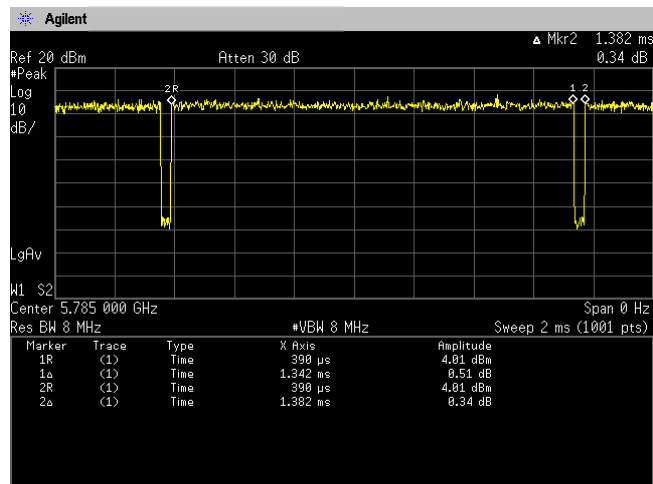
Channel: 56



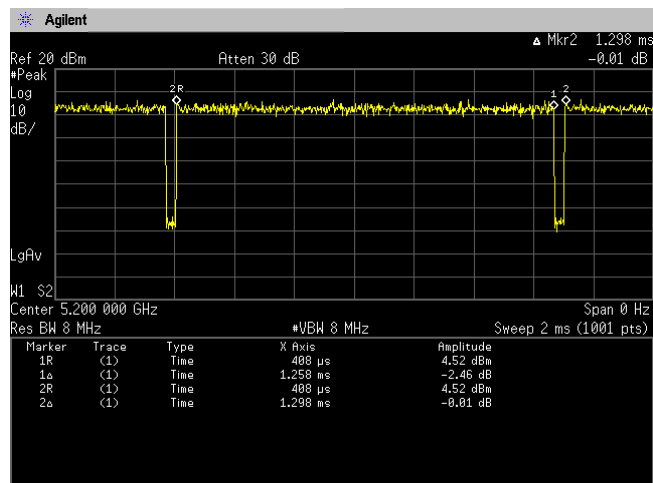
Channel: 116



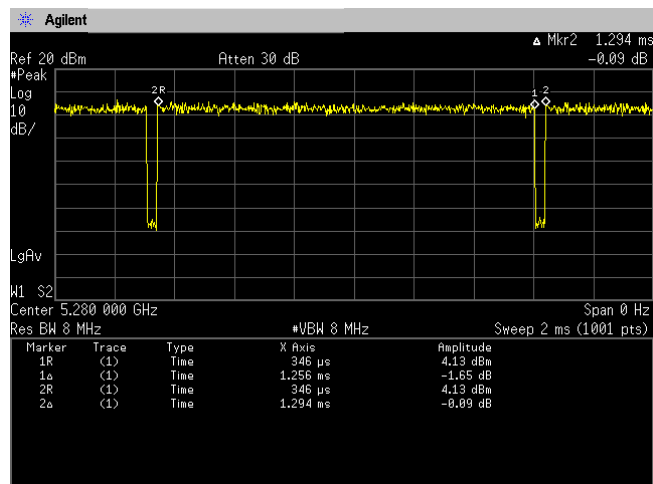
**[IEEE802.11a]
Channel: 157**



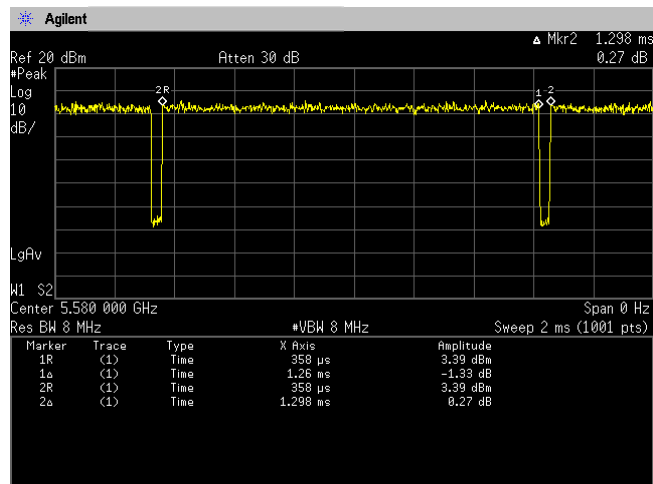
**[IEEE802.11n (HT20)]
Channel: 40**



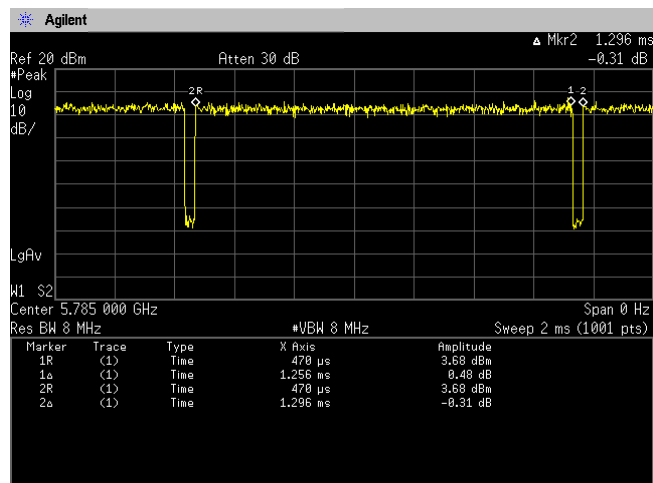
Channel: 56



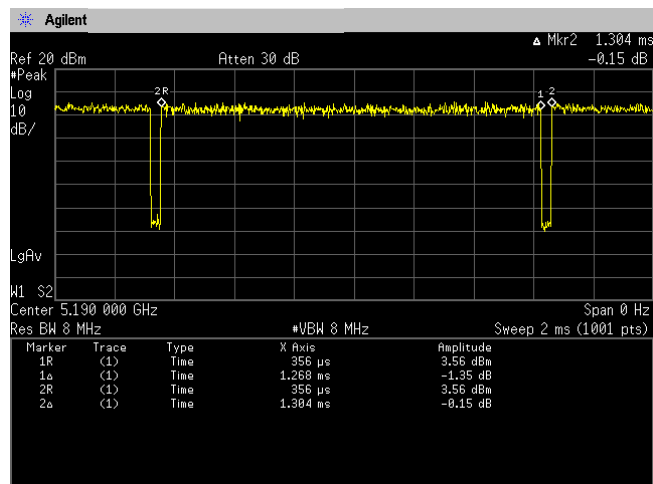
[IEEE802.11n (HT20)]
Channel: 116



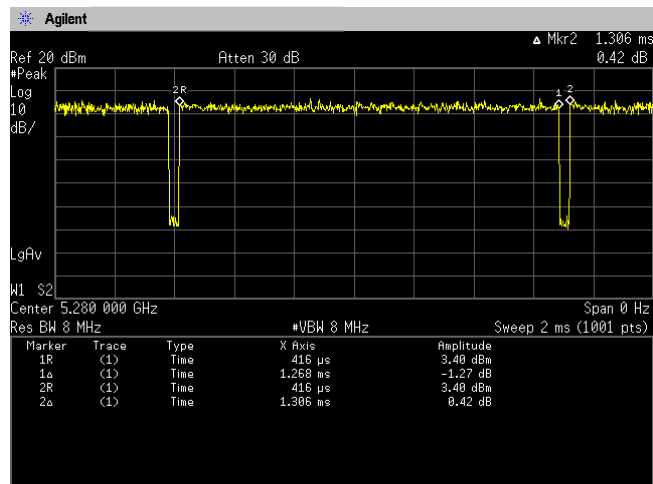
Channel: 157



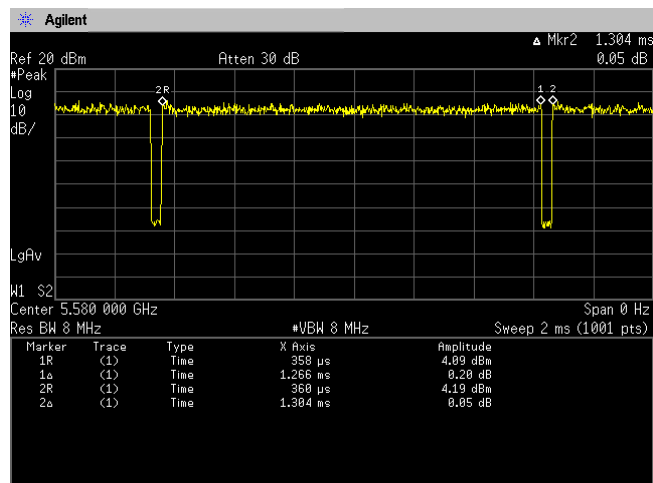
[IEEE802.11ac (HT20)]
Channel: 40



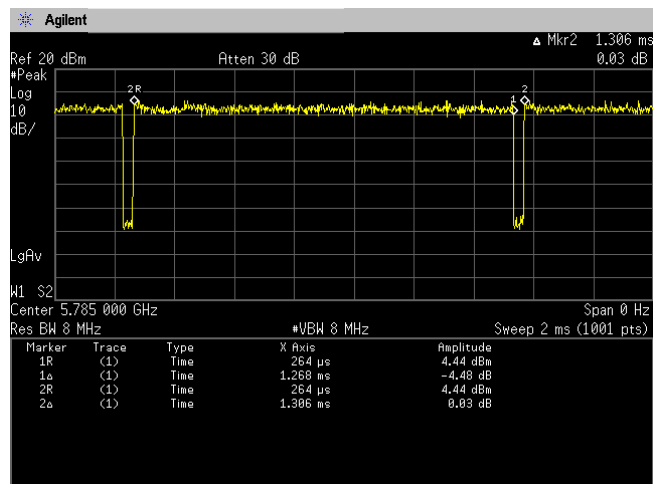
[IEEE802.11ac (HT20)]
Channel: 56



Channel: 116

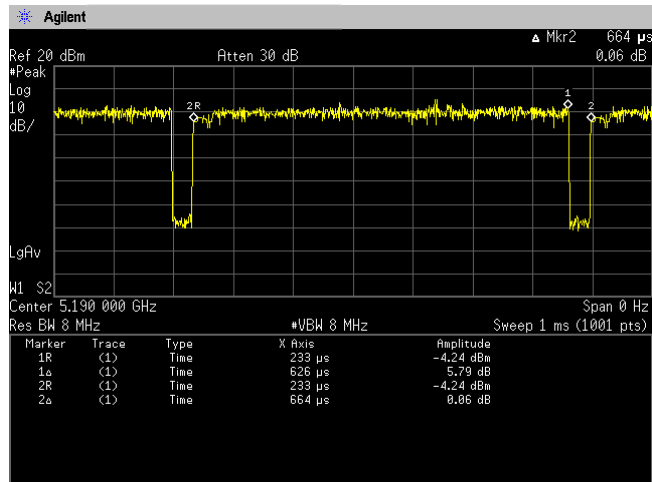


Channel: 157

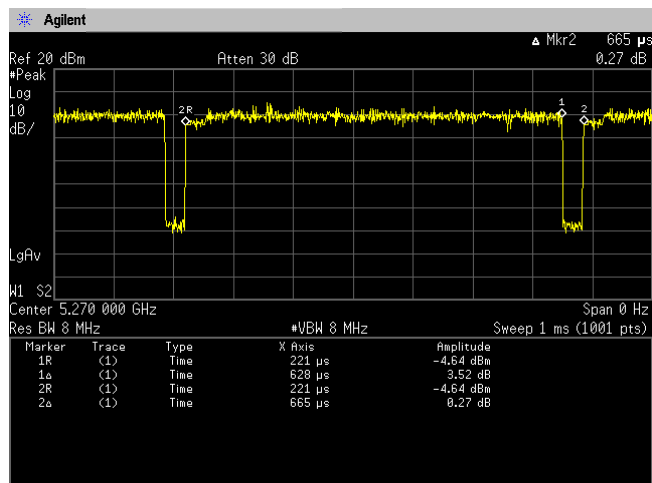




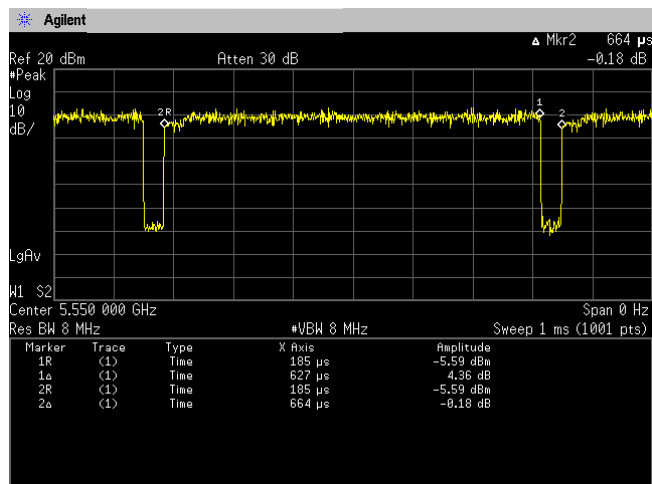
[IEEE802.11n (HT40)]
Channel: 38



Channel: 54

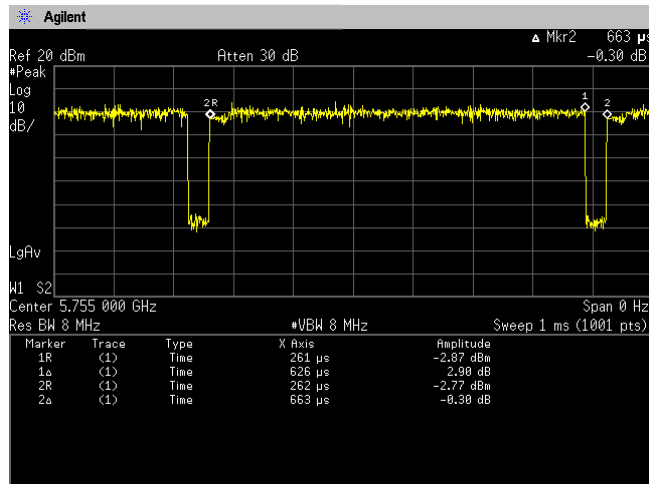


Channel: 110

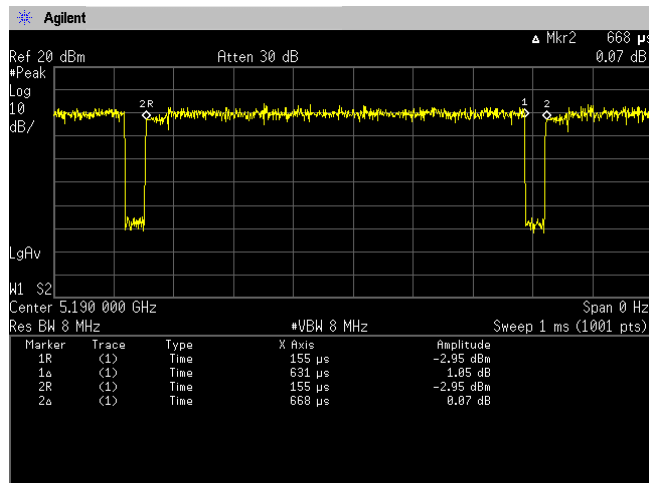




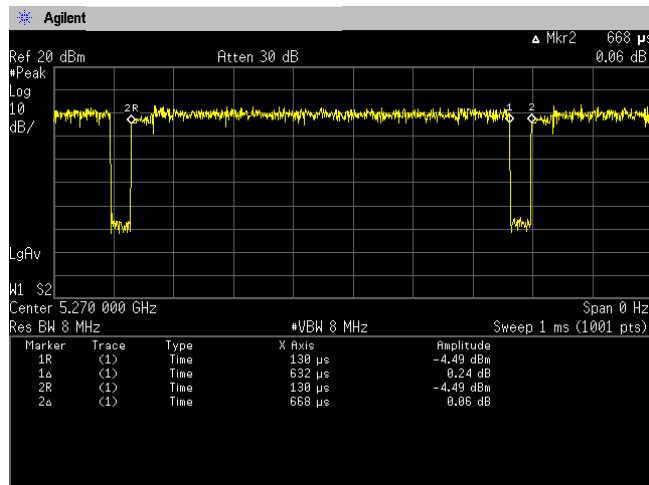
[IEEE802.11n (HT40)]
Channel: 151



[IEEE802.11ac (HT40)]
Channel: 38

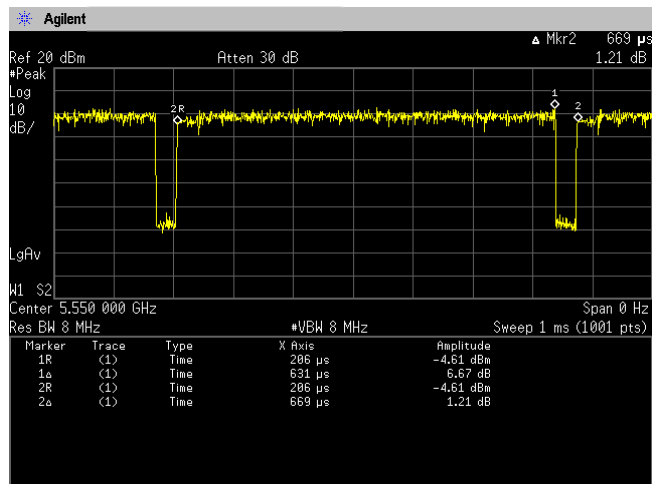


Channel: 54

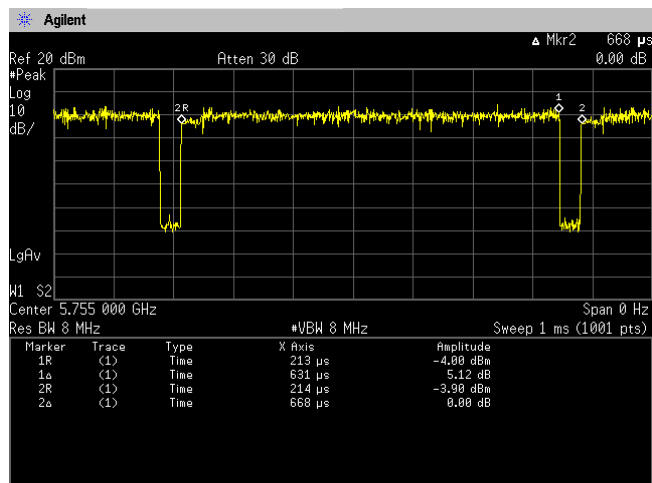




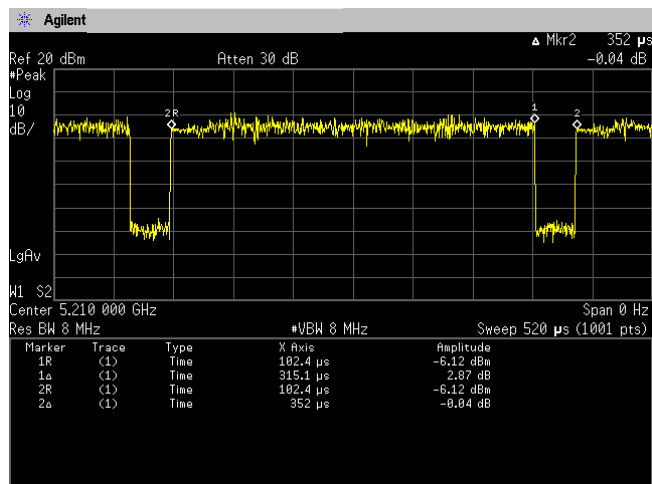
**[IEEE802.11ac (HT40)]
Channel: 110**



Channel: 151

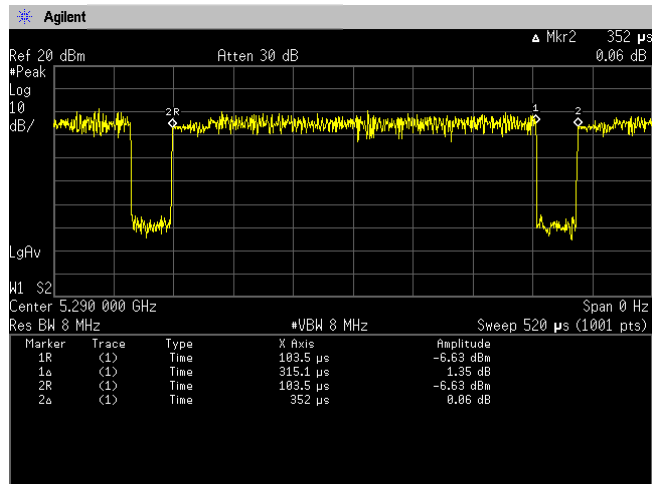


**[IEEE802.11ac (HT80)]
Channel: 42**

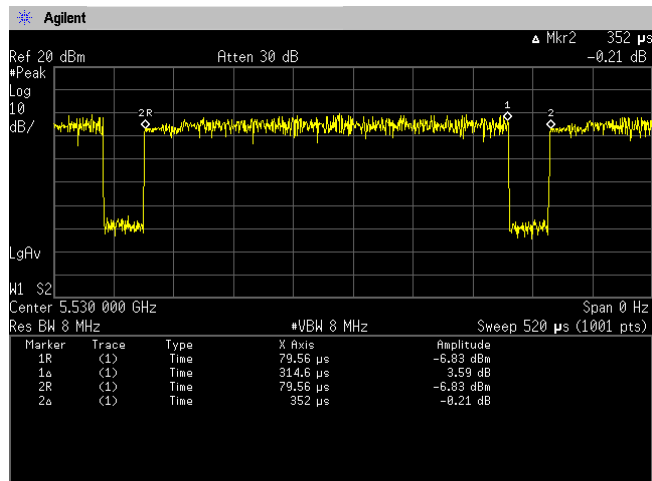




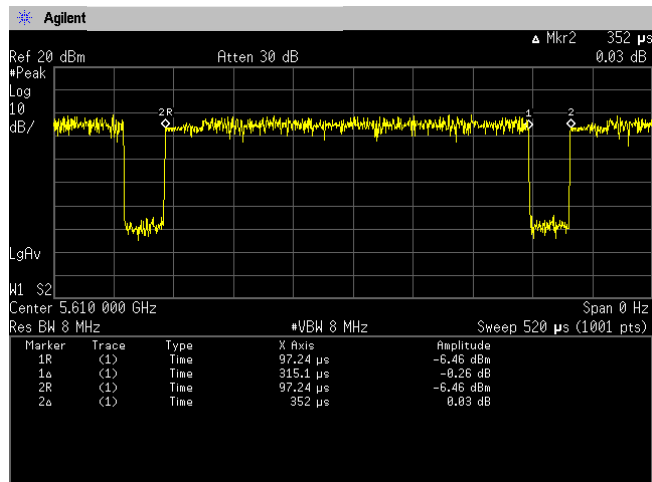
[IEEE802.11ac (HT80)]
Channel: 58



Channel: 106



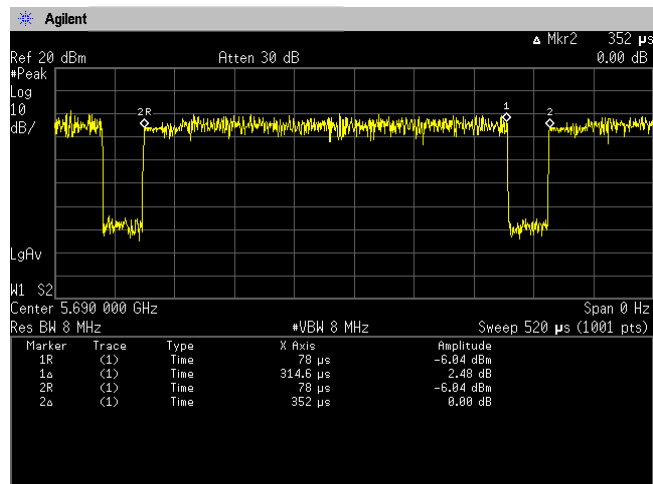
Channel: 122



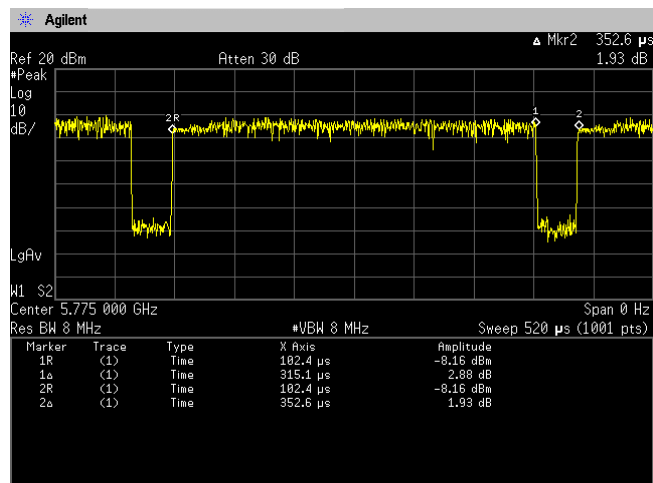


Japan

**[IEEE802.11ac (HT80)]
Channel: 138**



Channel: 155





Japan

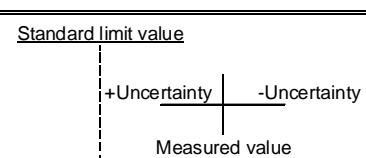
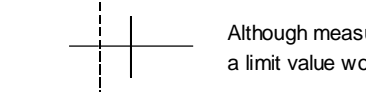
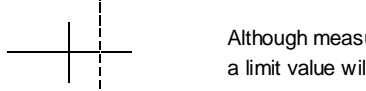

5 Antenna requirement

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

6 Measurement uncertainty

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

Test item	Measurement uncertainty
Conducted emission, AMN (9 kHz – 150 kHz)	± 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)	± 5.3 dB
Radiated emission (1 GHz – 6 GHz)	± 4.8 dB
Radiated emission (6 GHz – 18 GHz)	± 4.5 dB
Radiated emission (18 GHz – 40 GHz)	± 6.4 dB
Radio Frequency	$\pm 1.4 \cdot 10^{-8}$
RF power, conducted	± 0.8 dB
Adjacent channel power	± 2.4 dB
Temperature	± 0.6 °C
Humidity	± 1.2 %
Voltage (DC)	± 0.4 %
Voltage (AC, <10kHz)	± 0.2 %

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



Japan

7 Laboratory Information

Testing was performed and the report was issued at:

TÜV SÜD Japan Ltd. Yonezawa Testing Center

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

Phone: +81-238-28-2881

Accreditation and Registration

A2LA

Certificate #3686.03

VLAC

Accreditation No.: VLAC-013

BSMI

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

Innovation, Science and Economic Development Canada

ISED#: 4224A

VCCI Council

Registration number: A-0166

Appendix A. Test Equipment

Antenna port conducted test

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
Spectrum analyzer	Agilent Technologies	E4440A	US44302655	31-Aug-2021	20-Aug-2020
				30-Sep-2022	20-Sep-2021
Attenuator	Weinschel	56-10	J4993	31-Dec-2021	14-Dec-2020
Power meter	ROHDE&SCHWARZ	NRP2	103269	31-Mar-2022	10-Mar-2021
Power sensor	ROHDE&SCHWARZ	NRP-Z81	102467	31-Mar-2022	10-Mar-2021

Radiated emission

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI Receiver	ROHDE&SCHWARZ	ESCI	100765	30-Sep-2021	28-Sep-2020
Spectrum analyzer	Agilent Technologies	E4447A	MY46180188	31-Mar-2022	11-Mar-2021
Spectrum analyzer	Agilent Technologies	E4440A	US40420937	31-Dec-2021	11-Dec-2020
Spectrum analyzer	ROHDE&SCHWARZ	FSV40	101731	30-Jun-2022	08-Jun-2021
Preamplifier	SONOMA	310	372170	30-Sep-2021	29-Sep-2020
Loop antenna	ROHDE&SCHWARZ	HFH2-Z2	100515	30-Apr-2022	27-Apr-2021
Biconical antenna	Schwarzbeck	VHBB9124/BBA9106	1333	31-Dec-2021	15-Dec-2020
Log periodic antenna	Schwarzbeck	VUJSLP9111B	345	31-Oct-2021	19-Oct-2020
Attenuator	TOYO Connector	NA-PJ-6/6dB	N/A(S541)	30-Sep-2021	29-Sep-2020
Attenuator	TAMAGAWA.ELEC	CFA-10/3dB	N/A(S503)	31-Jul-2022	20-Jul-2021
Preamplifier	TSJ	MLA-100M18-B02-40	1929118	31-Dec-2021	15-Dec-2020
Attenuator	AEROFLEX	26A-10	081217-08	31-Dec-2021	14-Dec-2020
Double ridged guide antenna	ETS LINDGREN	3117	00052315	31-Mar-2022	30-Mar-2021
Attenuator	HUBER+SUHNER	6803.17.B	N/A(2340)	31-Dec-2021	15-Dec-2020
Double ridged guide antenna	A.H.Systems Inc.	SAS-574	469	30-Sep-2021	02-Sep-2020
Preamplifier	TSJ	MLA-1840-B03-35	1240332	30-Sep-2021	02-Sep-2020
Band rejection filter	Micro-Tronics	BRC50702	G433	30-Sep-2021	29-Sep-2020
Microwave cable	HUBER+SUHNER	SUCOFLEX104/9m	MY30037/4	31-Dec-2021	15-Dec-2020
		SUCOFLEX104/1m	my24610/4	31-Dec-2021	15-Dec-2020
		SUCOFLEX104/8m	SN MY30033/4	31-Dec-2021	15-Dec-2020
		SUCOFLEX104	MY32976/4	31-Dec-2021	15-Dec-2020
		SUCOFLEX104/1.5m	SN MY28404/4	31-Dec-2021	15-Dec-2020
		SUCOFLEX104/7m	41625/6	31-Dec-2021	15-Dec-2020
PC	DELL	DIMENSION E521	75465BX	N/A	N/A
Software	TOYO Corporation	EP5/RE-AJ	0611193/V6.0.140	N/A	N/A
Absorber	RIKEN	PF30	N/A	N/A	N/A
3m Semi an-echoic Chamber	TOKIN	N/A	N/A(9002-NSA)	31-May-2022	20-May-2021
3m Semi an-echoic Chamber	TOKIN	N/A	N/A(9002-SVSWR)	31-May-2022	20-May-2021

Conducted emission at mains port

Equipment	Company	Model No.	Serial No.	Cal. Due	Cal. Date
EMI Receiver	ROHDE&SCHWARZ	ESCI	100765	30-Sep-2021	28-Sep-2020
Attenuator	HUBER+SUHNER	6810.01.A	N/A (S411)	31-Dec-2021	15-Dec-2020
Line impedance stabilization network	Kyoritsu Electrical Works, Ltd.	TNW-407F2	12-17-110-2	30-Jun-2022	17-Jun-2021
Coaxial cable	FUJIKURA	5D-2W/4m	N/A (S350)	31-Dec-2021	15-Dec-2020
Coaxial cable	FUJIKURA	5D-2W/1m	N/A (S193)	31-Dec-2021	15-Dec-2020
Coaxial cable	HUBER+SUHNER	RG214/U/10m	N/A (S194)	31-Dec-2021	15-Dec-2020
PC	DELL	DIMENSION	75465BX	N/A	N/A
Software	TOYO Corporation	EP5/CE-AJ	0611193/V5.4.11	N/A	N/A

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