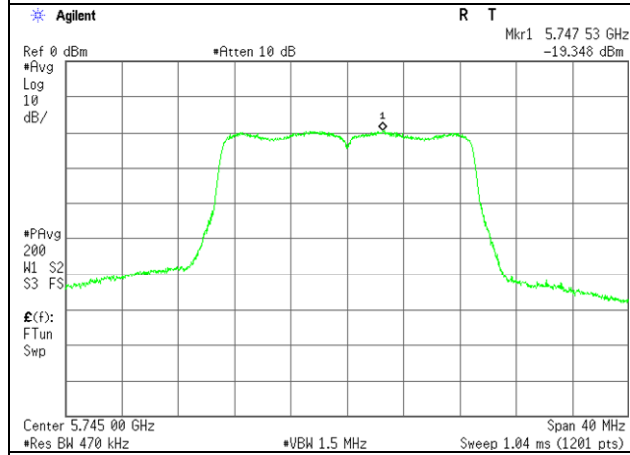


Maximum Power Spectral Density

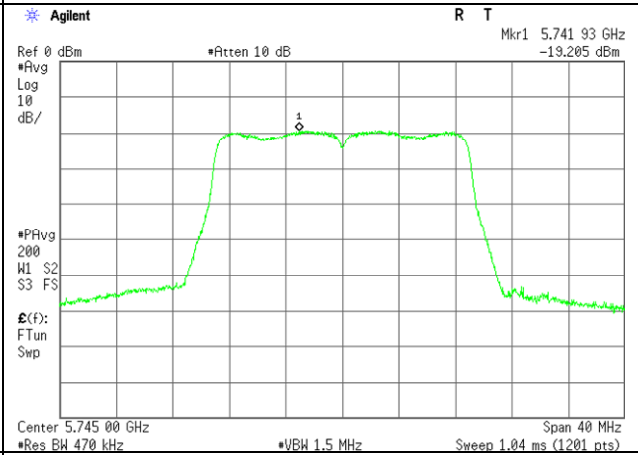
11n-20 Antenna port 0

5745MHz

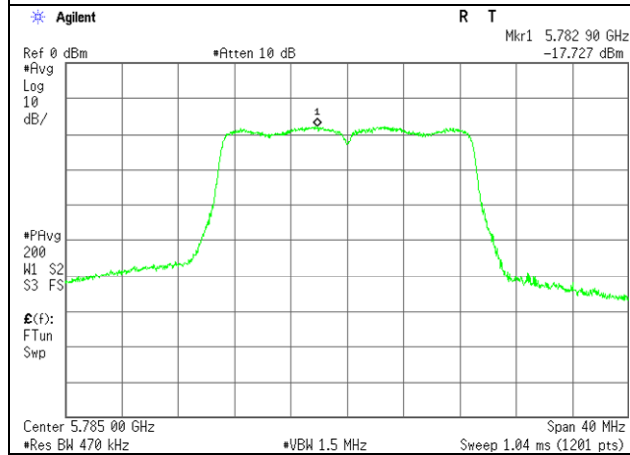


11n-20 Antenna port 0

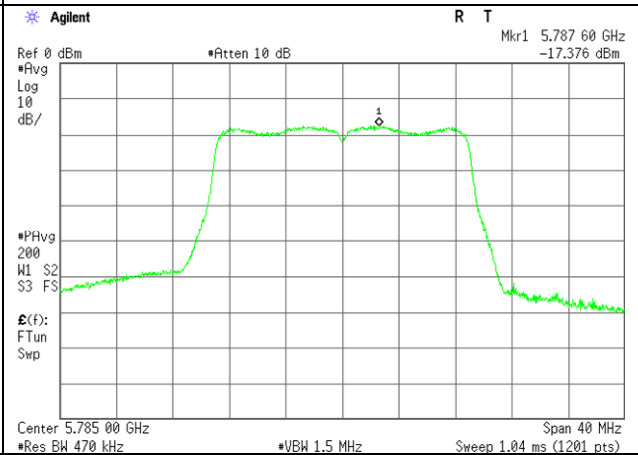
5745MHz



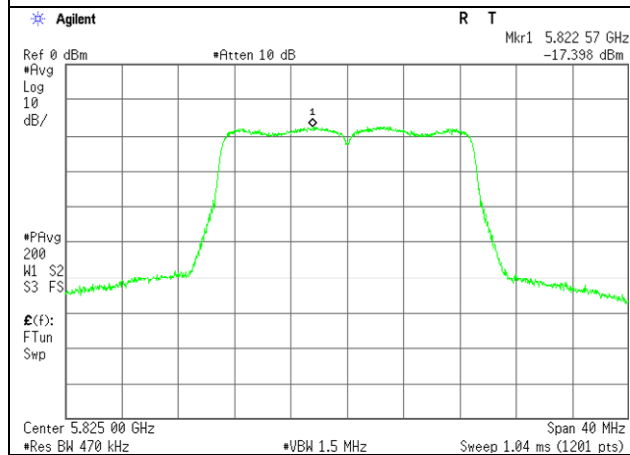
5785MHz



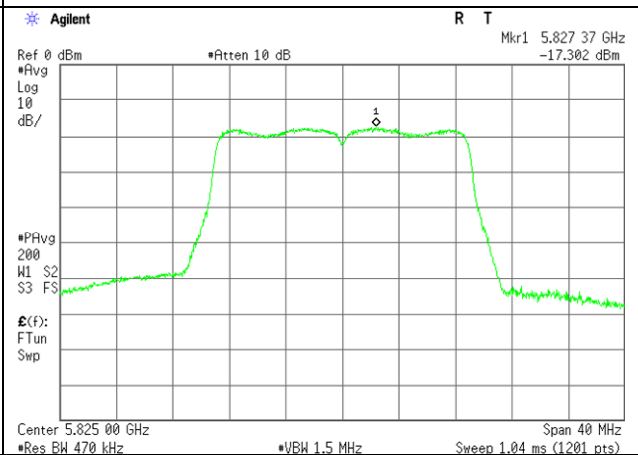
5785MHz



5825MHz



5825MHz



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Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place : Ise EMC Lab. No.11 Measurement Room
Report No. : 10812026H
Date : 06/29/2015
Temperature/ Humidity : 23deg. C / 49% RH
Engineer : Shinichi Miyazono
Mode : 11ac-20 Tx

<W52, W53 bands>

Antenna Port 0+1

Freq. [MHz]	Antenna Port 0 Result	Antenna Port 1 Result	Result Antenna Port 0+1		Limit [dBm/MHz]	Margin [dB]
	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[mW/MHz]		
5180.0	0.84	0.76	2.04	1.60	11.00	8.96
5220.0	0.83	0.81	2.16	1.64	11.00	8.84
5240.0	0.99	0.81	2.54	1.80	11.00	8.46
5260.0	0.93	0.81	2.40	1.74	11.00	8.60
5300.0	1.02	0.87	2.78	1.90	11.00	8.22
5320.0	0.92	0.83	2.43	1.75	11.00	8.57

Antenna Port 0

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/MHz]	Margin [dB]
						[dBm/MHz]	[mW/MHz]		
5180.0	-13.84	2.67	10.08	0.33	0.00	-0.76	0.84	11.00	11.76
5220.0	-13.89	2.68	10.09	0.33	0.00	-0.79	0.83	11.00	11.79
5240.0	-13.16	2.70	10.09	0.33	0.00	-0.04	0.99	11.00	11.04
5260.0	-13.43	2.70	10.09	0.33	0.00	-0.31	0.93	11.00	11.31
5300.0	-13.05	2.73	10.09	0.33	0.00	0.10	1.02	11.00	10.90
5320.0	-13.52	2.73	10.09	0.33	0.00	-0.37	0.92	11.00	11.37

Antenna Port 1

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/MHz]	Margin [dB]
						[dBm/MHz]	[mW/MHz]		
5180.0	-14.26	2.67	10.08	0.33	0.00	-1.18	0.76	11.00	12.18
5220.0	-14.03	2.68	10.09	0.33	0.00	-0.93	0.81	11.00	11.93
5240.0	-14.06	2.70	10.09	0.33	0.00	-0.94	0.81	11.00	11.94
5260.0	-14.05	2.70	10.09	0.33	0.00	-0.93	0.81	11.00	11.93
5300.0	-13.74	2.73	10.09	0.33	0.00	-0.59	0.87	11.00	11.59
5320.0	-13.95	2.73	10.09	0.33	0.00	-0.80	0.83	11.00	11.80

Result = Reading + Cable Loss + Atten. Loss + Duty Factor + Correction Factor

<W58 band>

Antenna Port 0+1

Freq. [MHz]	Antenna Port 0 Result	Antenna Port 1 Result	Result Antenna Port 0+1		Limit [dBm/500kHz]	Margin [dB]
	[mW/500kHz]	[mW/500kHz]	[dBm/500kHz]	[mW/500kHz]		
5745.0	0.26	0.29	-2.59	0.55	30.00	32.59
5785.0	0.40	0.40	-0.97	0.80	30.00	30.97
5825.0	0.46	0.45	-0.42	0.91	30.00	30.42

Antenna Port 0

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/500kHz]	Margin [dB]
						[dBm/500kHz]	[mW/500kHz]		
5745.0	-19.36	2.91	10.07	0.33	0.27	-5.78	0.26	30.00	35.78
5785.0	-17.55	2.92	10.07	0.33	0.27	-3.96	0.40	30.00	33.96
5825.0	-16.95	2.94	10.06	0.33	0.27	-3.35	0.46	30.00	33.35

Antenna Port 1

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/500kHz]	Margin [dB]
						[dBm/500kHz]	[mW/500kHz]		
5745.0	-19.01	2.91	10.07	0.33	0.27	-5.43	0.29	30.00	35.43
5785.0	-17.59	2.92	10.07	0.33	0.27	-4.00	0.40	30.00	34.00
5825.0	-17.11	2.94	10.06	0.33	0.27	-3.51	0.45	30.00	33.51

Result = Reading + Cable Loss + Atten. Loss + Duty Factor + Correction Factor

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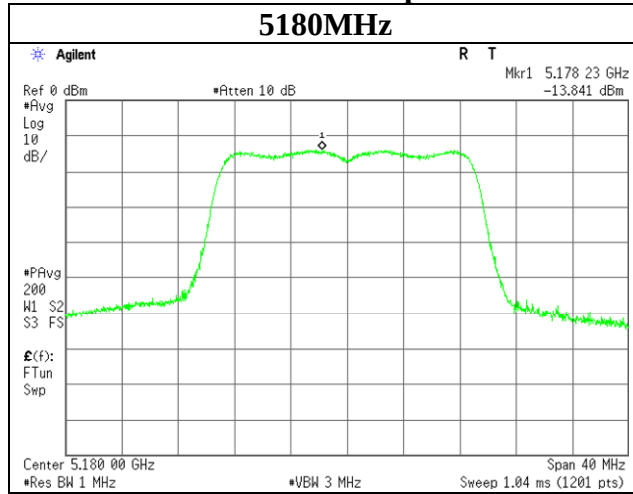
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Telephone : +81 596 24 8999

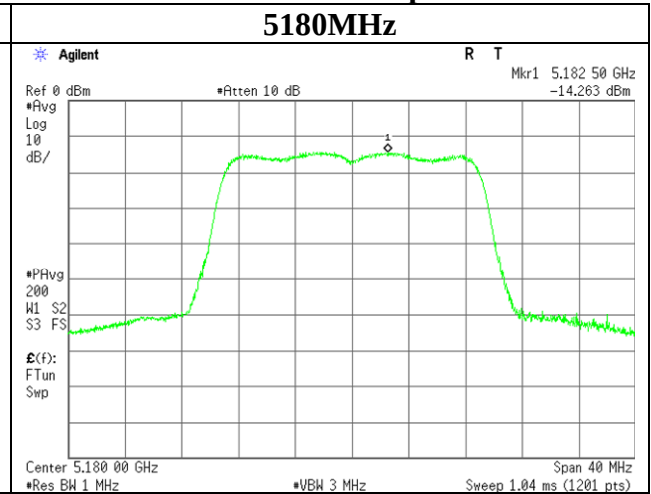
Facsimile : +81 596 24 8124

Maximum Power Spectral Density

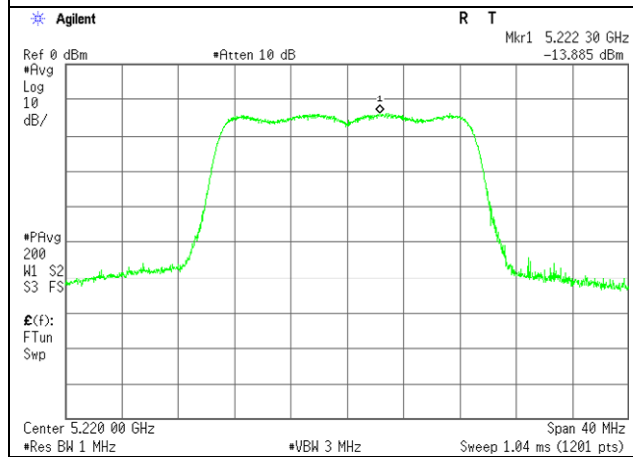
11ac-20 Antenna port 0



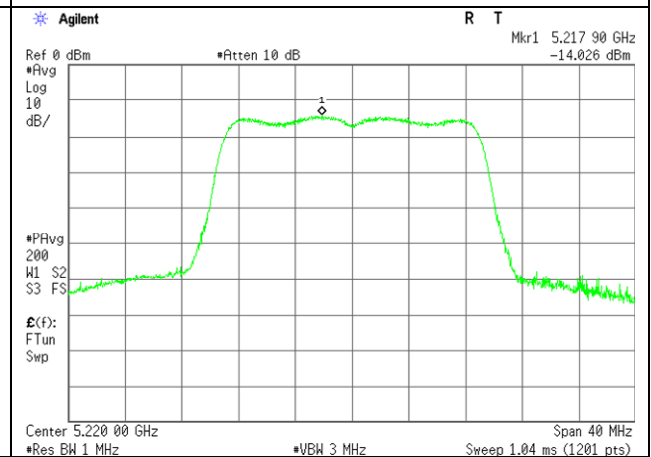
11ac-20 Antenna port 1



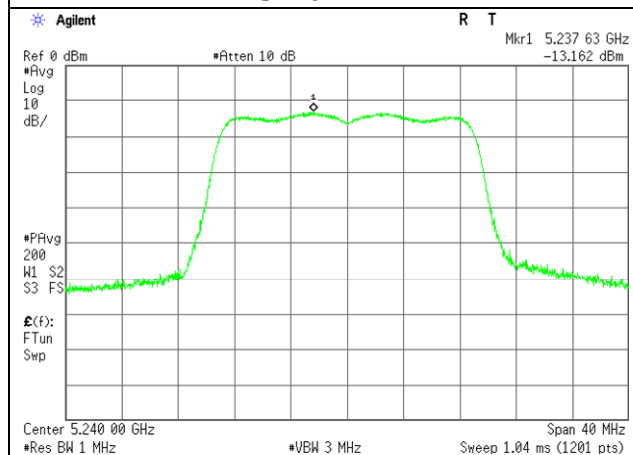
5220MHz



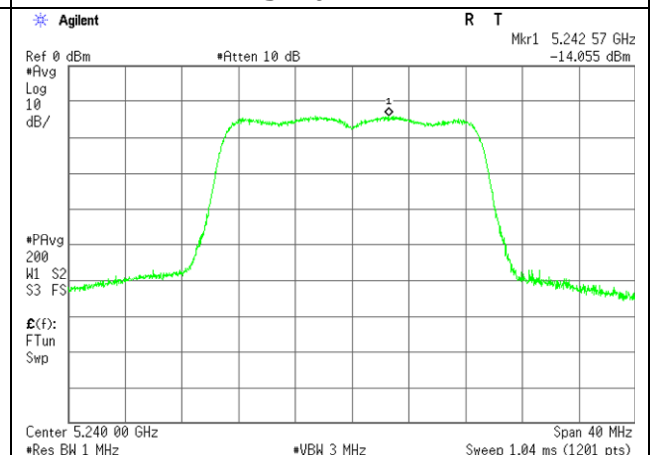
5220MHz



5240MHz



5240MHz



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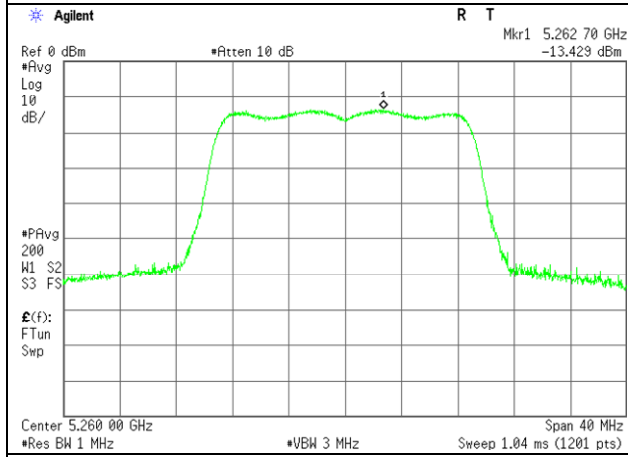
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

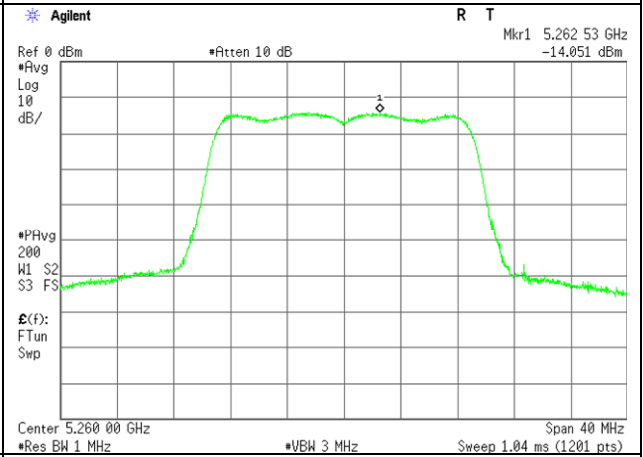
11ac-20 Antenna port 0

5260MHz

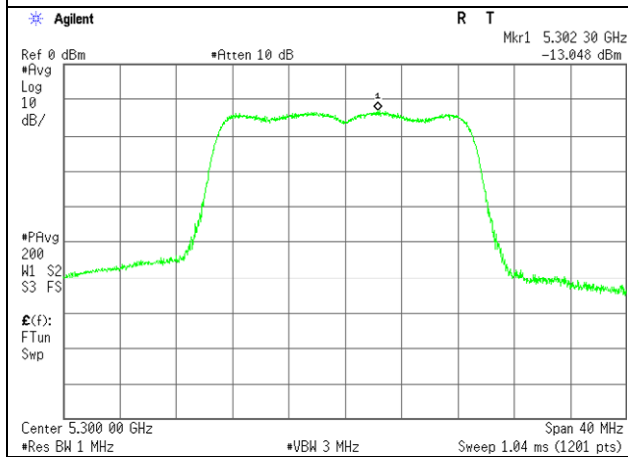


11ac-20 Antenna port 1

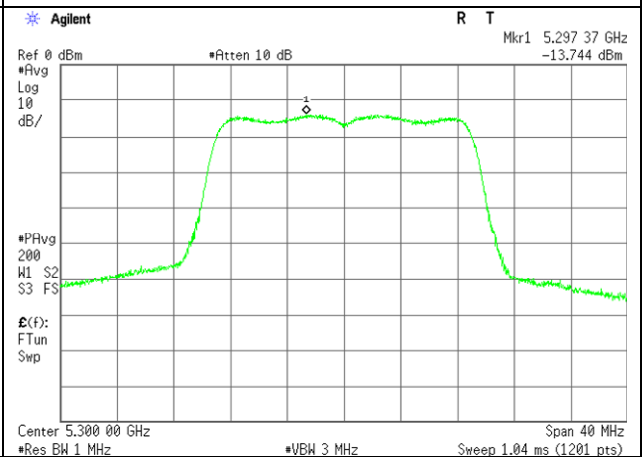
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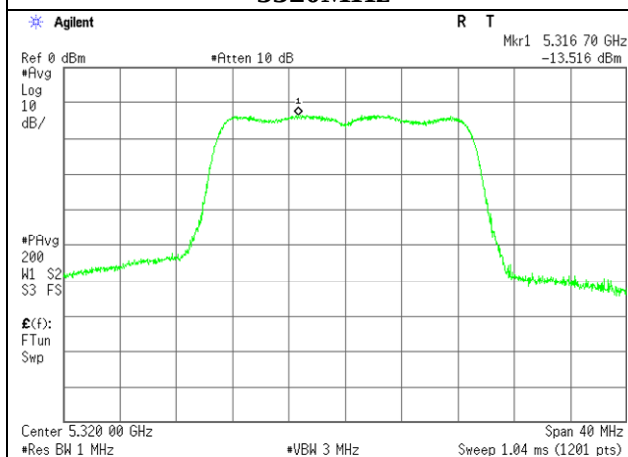
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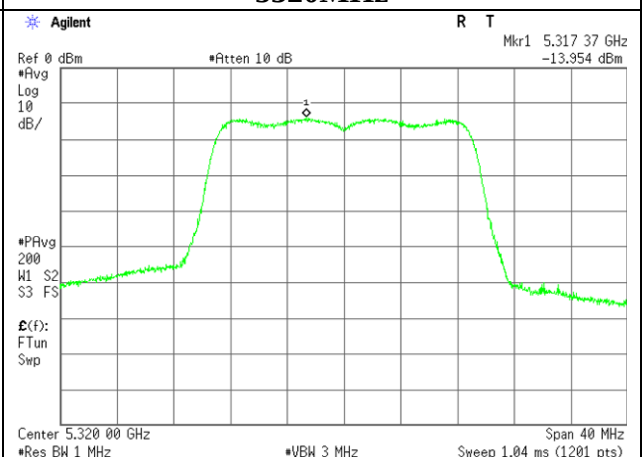
5300MHz



5320MHz



5320MHz



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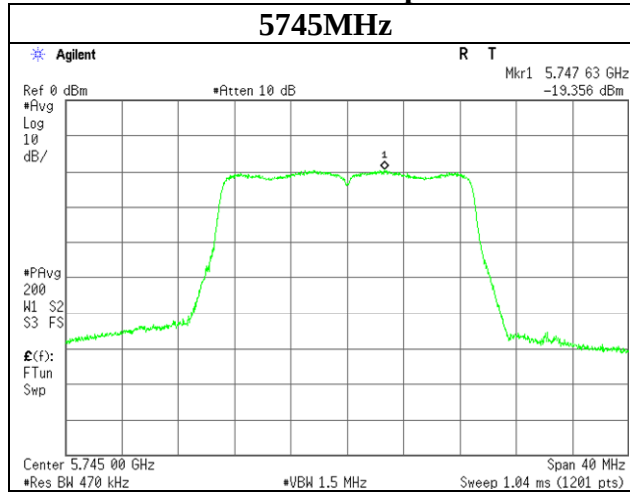
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Telephone : +81 596 24 8999

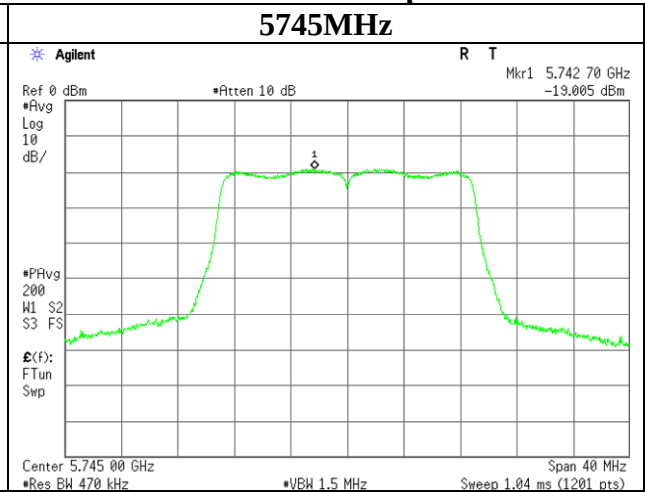
Facsimile : +81 596 24 8124

Maximum Power Spectral Density

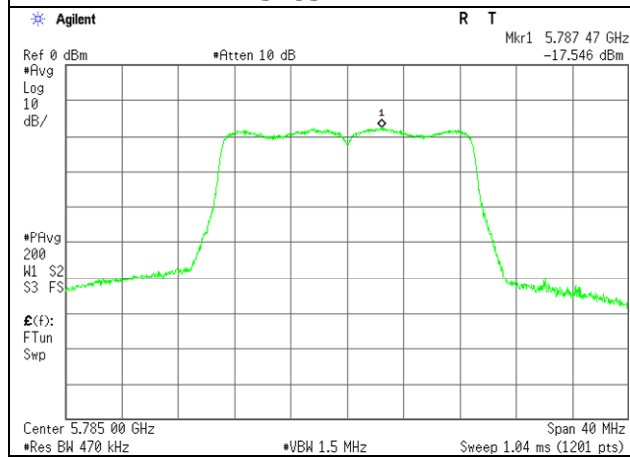
11ac-20 Antenna port 0



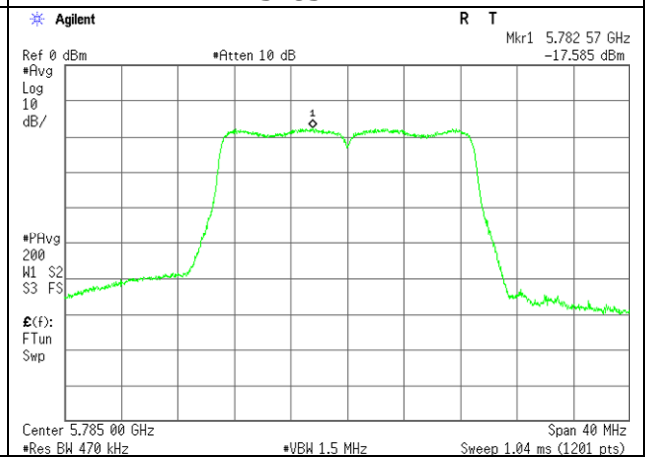
11ac-20 Antenna port 0



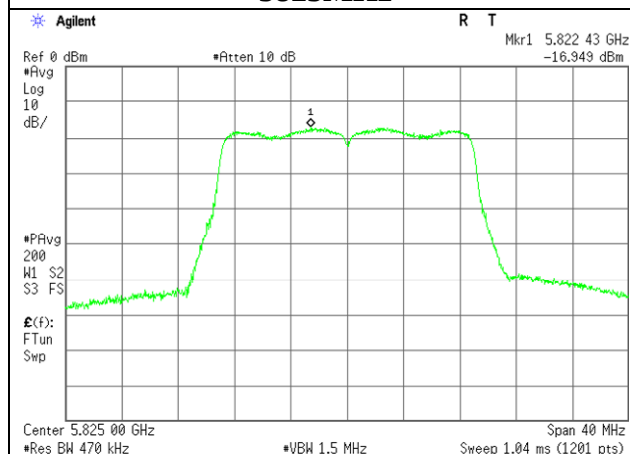
5785MHz



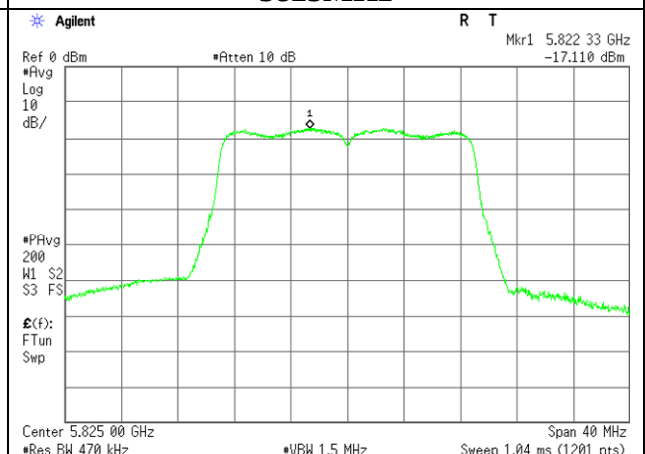
5785MHz



5825MHz



5825MHz



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Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place : Ise EMC Lab. No.11 Measurement Room
Report No. : 10812026H
Date : 06/29/2015
Temperature/ Humidity : 23deg. C / 49% RH
Engineer : Shinichi Miyazono
Mode : 11n-40 Tx

<W52, W53 bands>

Antenna port 0 + 1

Freq. [MHz]	Antenna Port 0 Result	Antenna Port 1 Result	Result Antenna Port 0+1		Limit	Margin
	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[mW/MHz]	[dBm/MHz]	[dB]
5190.0	0.40	0.36	-1.17	0.76	11.00	12.17
5230.0	0.40	0.33	-1.38	0.73	11.00	12.38
5270.0	0.39	0.35	-1.29	0.74	11.00	12.29
5310.0	0.42	0.35	-1.10	0.78	11.00	12.10

Antenna port 0

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/MHz]	Margin [dB]
						[dBm/MHz]	[mW/MHz]		
5190.0	-17.35	2.67	10.09	0.64	0.00	-3.95	0.40	11.00	14.95
5230.0	-17.44	2.69	10.09	0.64	0.00	-4.02	0.40	11.00	15.02
5270.0	-17.49	2.71	10.09	0.64	0.00	-4.05	0.39	11.00	15.05
5310.0	-17.27	2.79	10.09	0.64	0.00	-3.75	0.42	11.00	14.75

Antenna port 1

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/MHz]	Margin [dB]
						[dBm/MHz]	[mW/MHz]		
5180.0	-17.83	2.67	10.09	0.64	0.00	-4.43	0.36	11.00	15.43
5220.0	-18.21	2.69	10.09	0.64	0.00	-4.79	0.33	11.00	15.79
5270.0	-18.02	2.71	10.09	0.64	0.00	-4.58	0.35	11.00	15.58
5310.0	-18.02	2.79	10.09	0.64	0.00	-4.50	0.35	11.00	15.50

Result = Reading + Cable Loss + Atten. Loss + Duty Factor + Correction Factor

<W58 band>

Antenna port 0 + 1

Freq. [MHz]	Antenna Port 0 Result	Antenna Port 1 Result	Result Antenna Port 0+1		Limit	Margin
	[mW/500kHz]	[mW/500kHz]	[dBm/500kHz]	[mW/500kHz]	[dBm/500kHz]	[dB]
5755.0	0.12	0.15	-5.61	0.28	30.00	35.61
5795.0	0.20	0.21	-3.81	0.42	30.00	33.81

Antenna port 0

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit	Margin
						[dBm/500kHz]	[mW/500kHz]	[dBm/500kHz]	[dB]
5755.0	-22.94	2.91	10.07	0.64	0.27	-9.05	0.12	30.00	39.05
5795.0	-20.86	2.93	10.07	0.64	0.27	-6.95	0.20	30.00	36.95

Antenna port 1

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit	Margin
						[dBm/500kHz]	[mW/500kHz]	[dBm/500kHz]	[dB]
5755.0	-22.11	2.91	10.07	0.64	0.27	-8.22	0.15	30.00	38.22
5795.0	-20.61	2.93	10.07	0.64	0.27	-6.70	0.21	30.00	36.70

Result = Reading + Cable Loss + Atten. Loss + Duty Factor + Correction Factor

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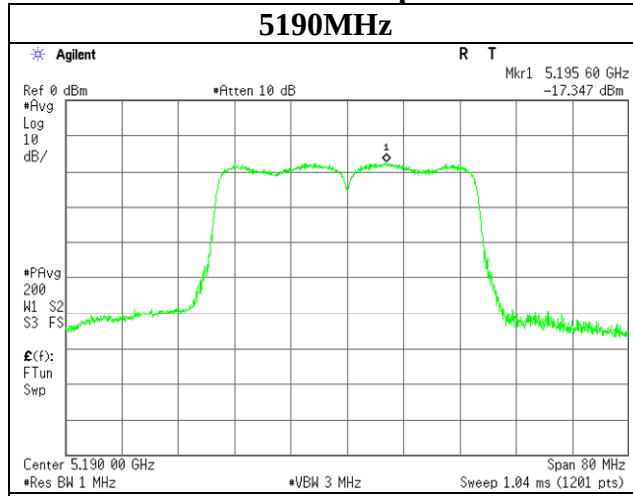
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Telephone : +81 596 24 8999

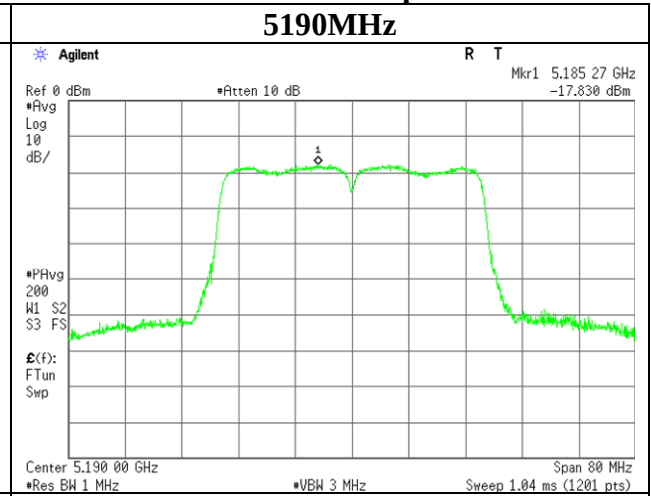
Facsimile : +81 596 24 8124

Maximum Power Spectral Density

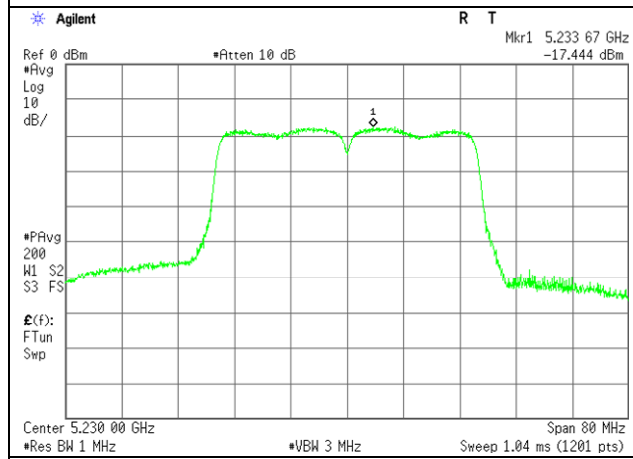
11n-40 Antenna port 0



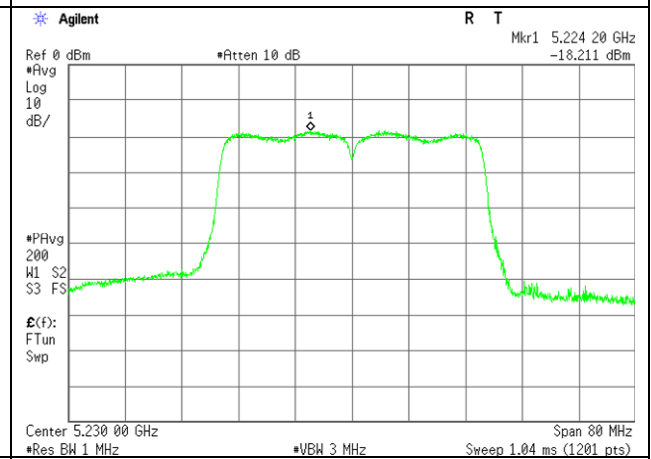
11n-40 Antenna port 1



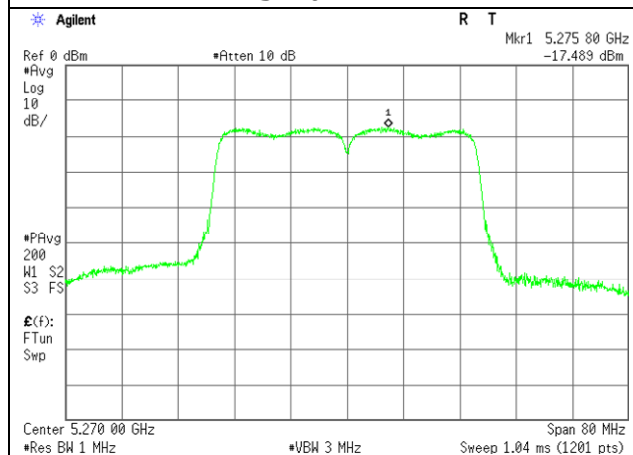
5230MHz



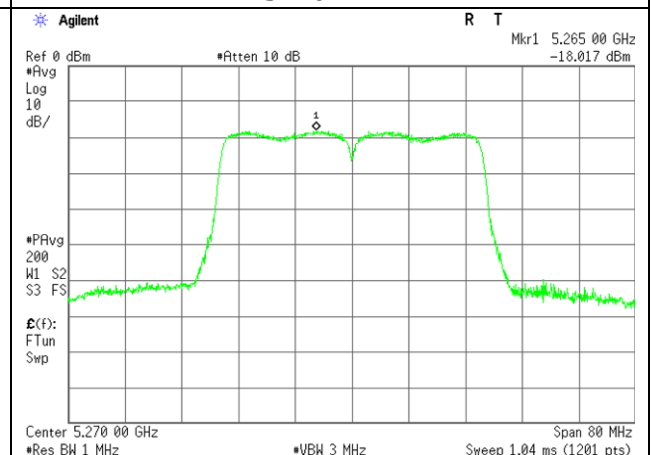
5230MHz



5270MHz



5270MHz



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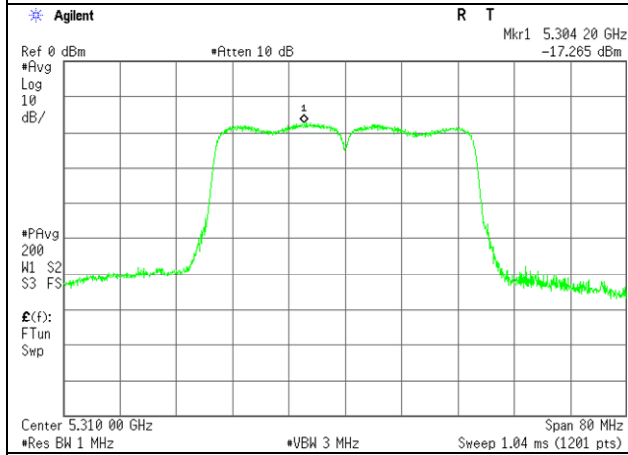
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Maximum Power Spectral Density

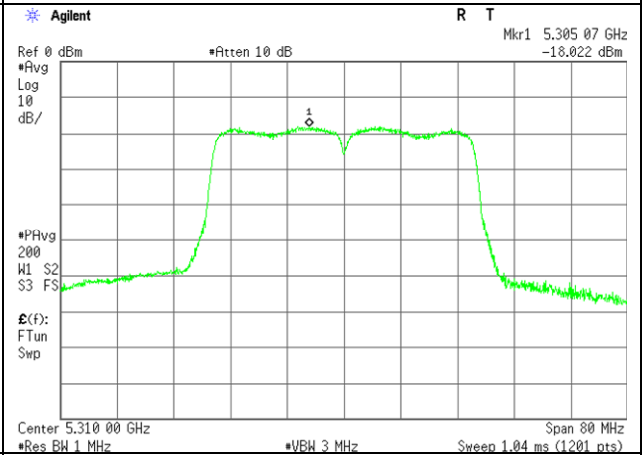
11n-40 Antenna port 0

5310MHz

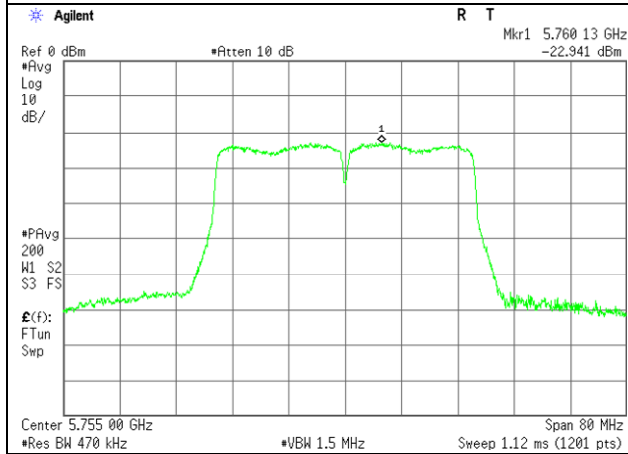


11n-40 Antenna port 1

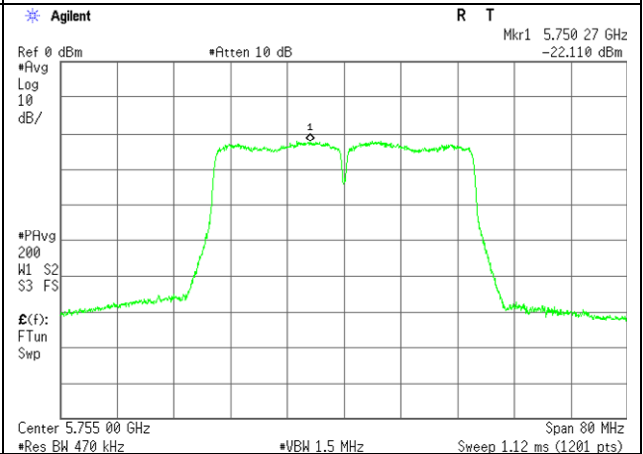
5310MHz



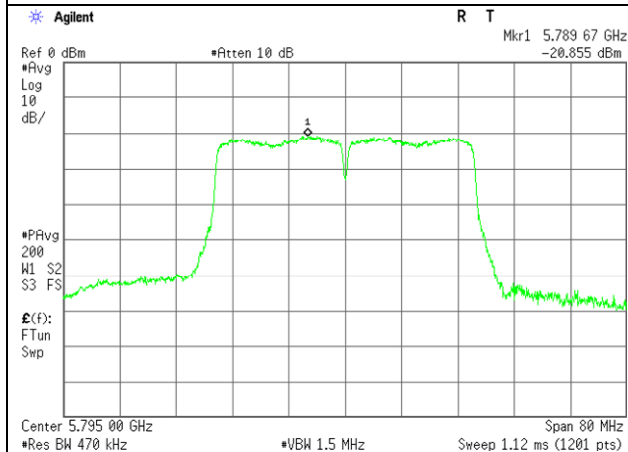
5755MHz



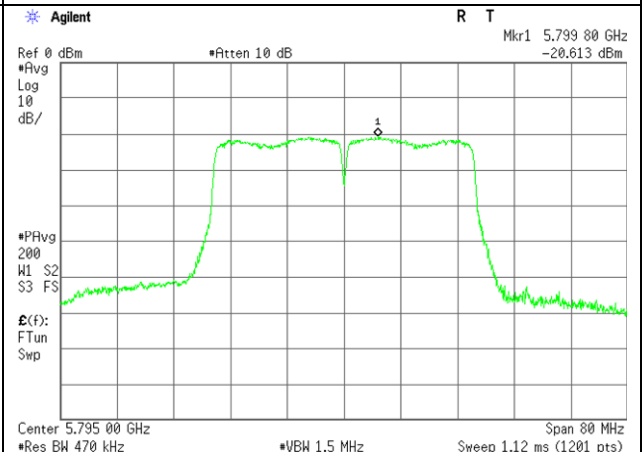
5755MHz



5795MHz



5795MHz



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Telephone : +81 596 24 8999

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Maximum Power Spectral Density

Test place : Ise EMC Lab. No.11 Measurement Room
Report No. : 10812026H
Date : 06/29/2015
Temperature/ Humidity : 23deg. C / 49% RH
Engineer : Shinichi Miyazono
Mode : 11ac-40 Tx

<W52, W53 bands>

Antenna port 0 + 1

Freq. [MHz]	Antenna Port 0 Result	Antenna Port 0 Result	Result Antenna Port 0+1		Limit [dBm/MHz]	Margin [dB]
	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[mW/MHz]		
5190.0	0.40	0.35	-1.24	0.75	11.00	12.24
5230.0	0.44	0.35	-1.04	0.79	11.00	12.04
5270.0	0.41	0.39	-0.97	0.80	11.00	11.97
5310.0	0.40	0.41	-0.93	0.81	11.00	11.93

Antenna port 0

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/MHz]	Margin [dB]
						[dBm/MHz]	[mW/MHz]		
5190.0	-17.36	2.67	10.09	0.65	0.00	-3.95	0.40	11.00	14.95
5230.0	-16.99	2.69	10.09	0.65	0.00	-3.56	0.44	11.00	14.56
5270.0	-17.29	2.71	10.09	0.65	0.00	-3.84	0.41	11.00	14.84
5310.0	-17.50	2.79	10.09	0.65	0.00	-3.97	0.40	11.00	14.97

Antenna port 1

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/MHz]	Margin [dB]
						[dBm/MHz]	[mW/MHz]		
5180.0	-17.98	2.67	10.09	0.65	0.00	-4.57	0.35	11.00	15.57
5220.0	-18.04	2.69	10.09	0.65	0.00	-4.61	0.35	11.00	15.61
5270.0	-17.59	2.71	10.09	0.65	0.00	-4.14	0.39	11.00	15.14
5310.0	-17.44	2.79	10.09	0.65	0.00	-3.91	0.41	11.00	14.91

Result = Reading + Cable Loss + Atten. Loss + Duty Factor + Correction Factor

<W58 band>

Antenna port 0 + 1

Freq. [MHz]	Antenna Port 0 Result	Antenna Port 1 Result	Result Antenna Port 0+1		Limit [dBm/500kHz]	Margin [dB]
	[mW/500kHz]	[mW/500kHz]	[dBm/500kHz]	[mW/500kHz]		
5755.0	0.14	0.14	-5.65	0.27	30.00	35.65
5795.0	0.20	0.19	-4.11	0.39	30.00	34.11

Antenna port 0

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/500kHz]	Margin [dB]
						[dBm/500kHz]	[mW/500kHz]		
5755.0	-22.59	2.91	10.07	0.65	0.27	-8.69	0.14	30.00	38.69
5795.0	-20.95	2.93	10.07	0.65	0.27	-7.03	0.20	30.00	37.03

Antenna port 1

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/500kHz]	Margin [dB]
						[dBm/500kHz]	[mW/500kHz]		
5755.0	-22.53	2.91	10.07	0.65	0.27	-8.63	0.14	30.00	38.63
5795.0	-21.12	2.93	10.07	0.65	0.27	-7.20	0.19	30.00	37.20

Result = Reading + Cable Loss + Atten. Loss + Duty Factor + Correction Factor

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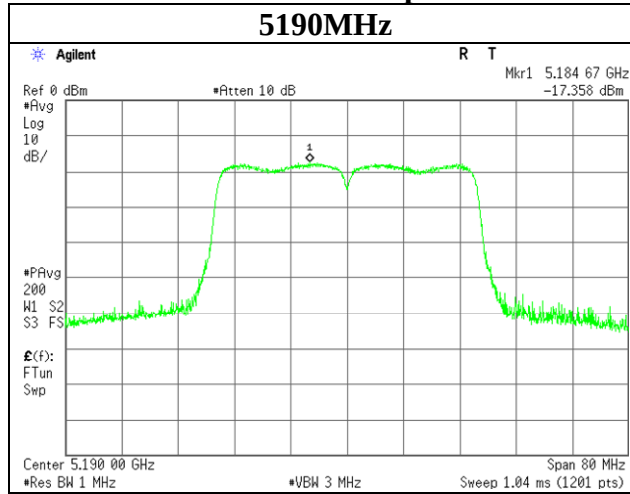
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

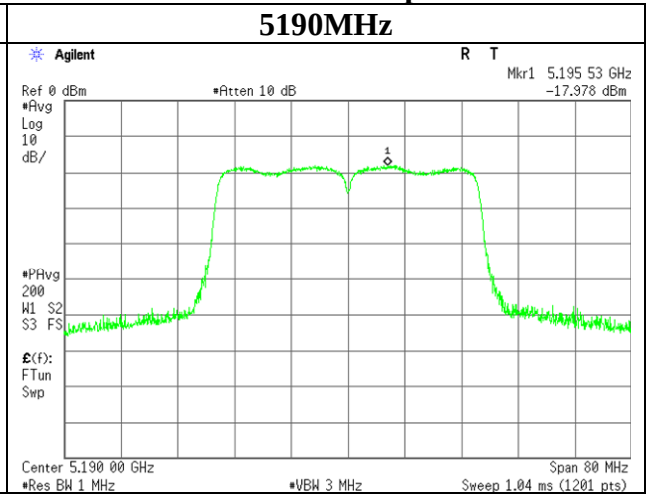
Facsimile : +81 596 24 8124

Maximum Power Spectral Density

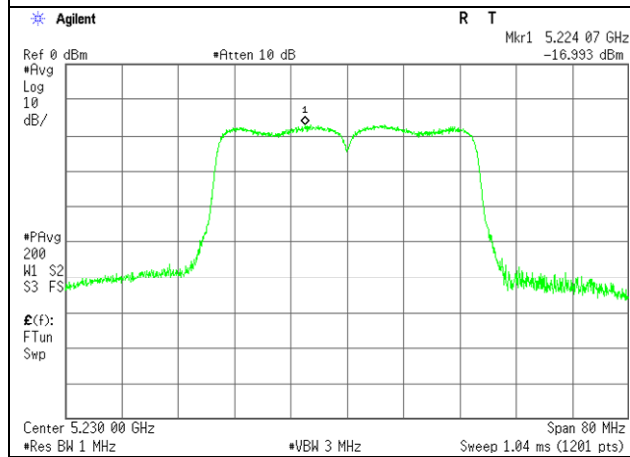
11ac-40 Antenna port 0



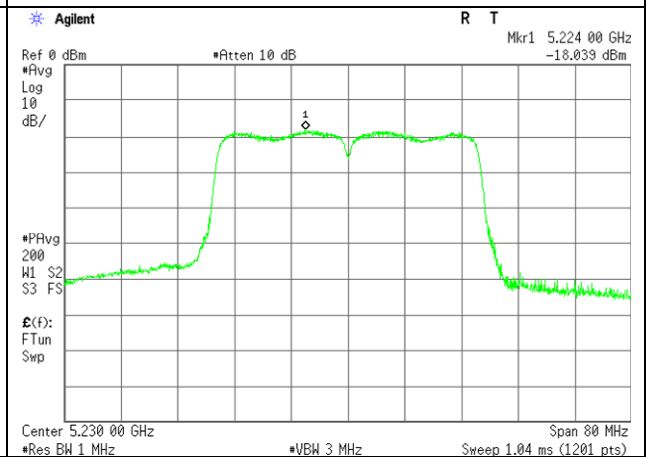
11ac-40 Antenna port 1



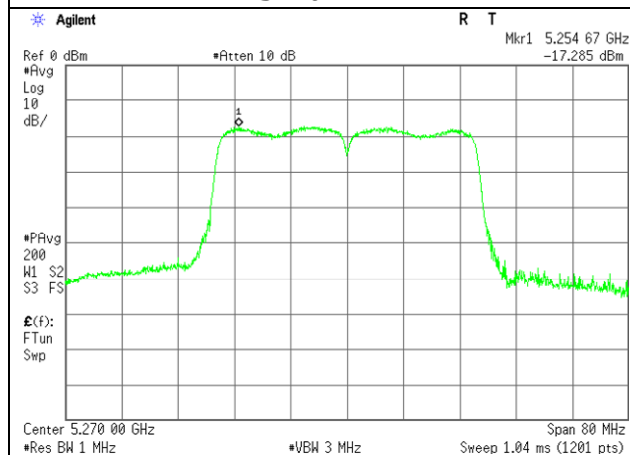
5230MHz



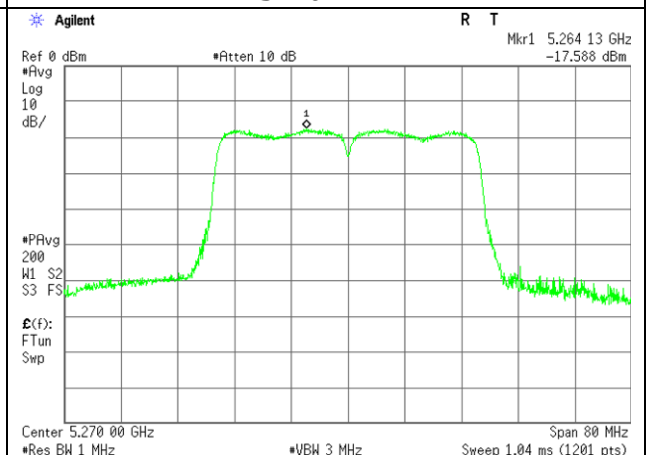
5230MHz



5270MHz



5270MHz



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Ise EMC Lab.

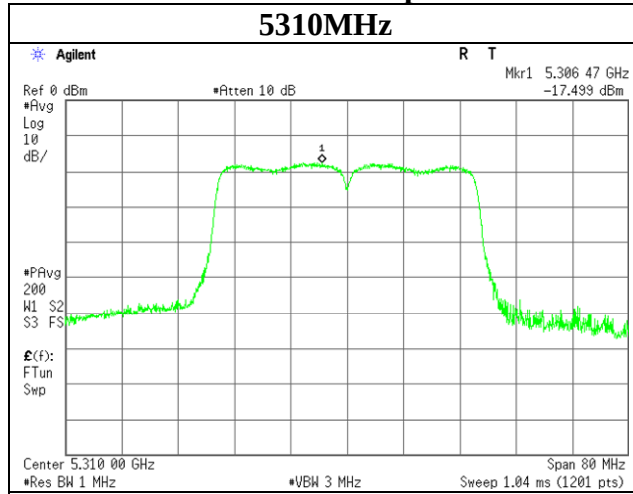
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

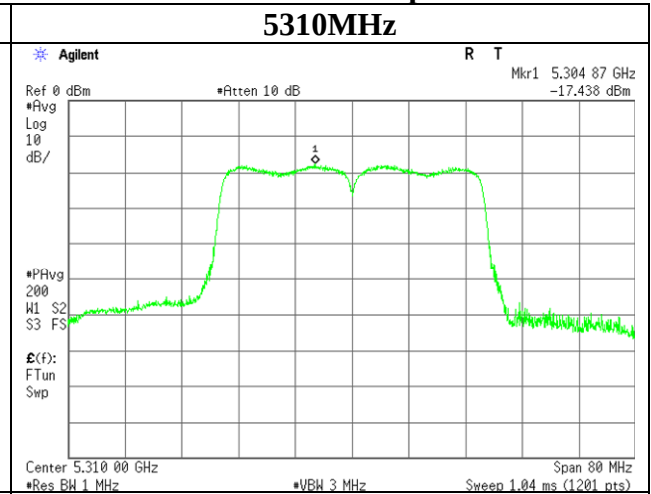
Facsimile : +81 596 24 8124

Maximum Power Spectral Density

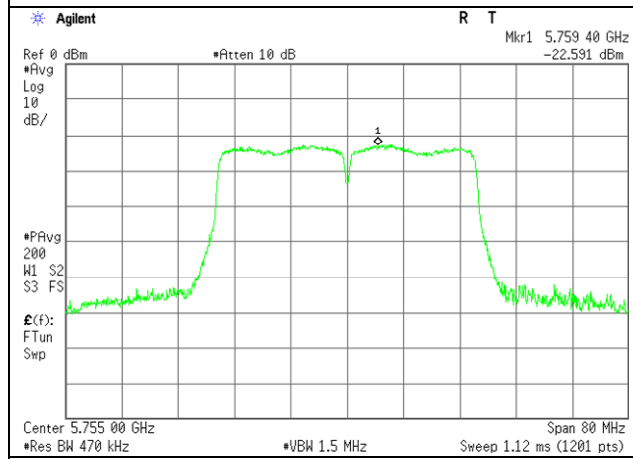
11ac-40 Antenna port 0



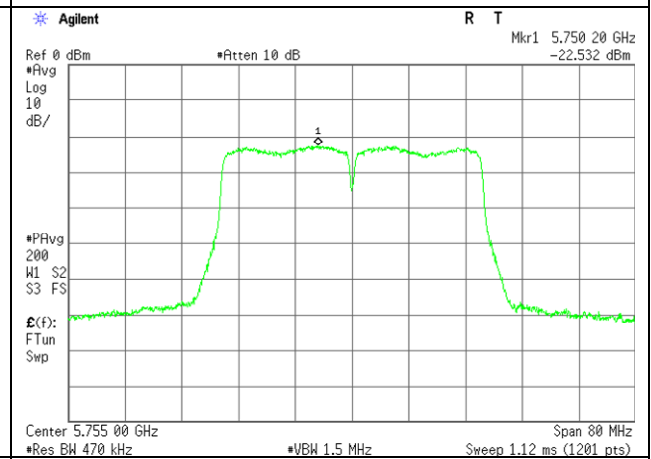
11ac-40 Antenna port 1



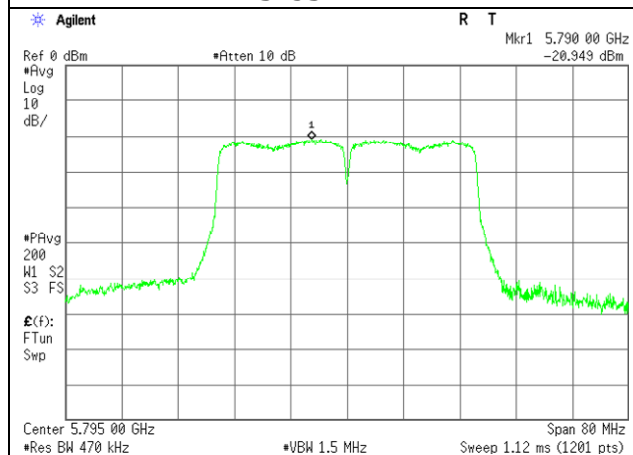
5755MHz



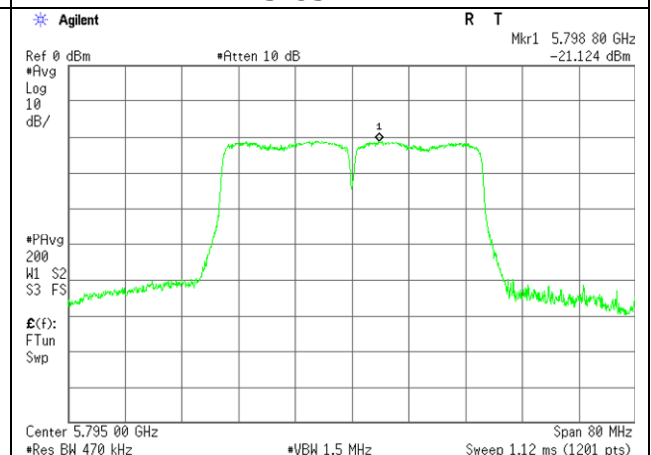
5755MHz



5795MHz



5795MHz



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Facsimile : +81 596 24 8124

Maximum Power Spectral Density

Test place : Ise EMC Lab. No.11 Measurement Room
Report No. : 10812026H
Date : 06/29/2015
Temperature/ Humidity : 23deg. C / 49% RH
Engineer : Shinichi Miyazono
Mode : 11ac-80 Tx

<W52, W53 bands>

Antenna port 0 + 1

Freq. [MHz]	Antenna Port 0 Result [mW/MHz]	Antenna Port 1 Result [mW/MHz]	Result Antenna Port 0+1		Limit [dBm/MHz]	Margin [dB]
			[dBm/MHz]	[mW/MHz]		
5210.0	0.10	0.08	-7.58	0.17	11.00	18.58
5290.0	0.12	0.12	-6.17	0.24	11.00	17.17

Antenna port 0

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/MHz]	Margin [dB]
						[dBm/MHz]	[mW/MHz]		
5210.0	-24.02	2.68	10.09	1.07	0.00	-10.18	0.10	11.00	21.18
5290.0	-22.98	2.72	10.09	1.07	0.00	-9.10	0.12	11.00	20.10

Antenna port 1

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/MHz]	Margin [dB]
						[dBm/MHz]	[mW/MHz]		
5210.0	-24.88	2.68	10.09	1.07	0.00	-11.04	0.08	11.00	22.04
5290.0	-23.14	2.72	10.09	1.07	0.00	-9.26	0.12	11.00	20.26

Result = Reading + Cable Loss + Atten. Loss + Duty Factor + Correction Factor

<W58 band>

Antenna port 0 + 1

Freq. [MHz]	Antenna Port 0 Result [mW/500kHz]	Antenna Port 1 Result [mW/500kHz]	Result Antenna Port 0+1		Limit [dBm/500kHz]	Margin [dB]
			[dBm/500kHz]	[mW/500kHz]		
5775.0	0.04	0.04	-10.58	0.09	30.00	40.58

Antenna port 0

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/500kHz]	Margin [dB]
						[dBm/500kHz]	[mW/500kHz]		
5775.0	-27.95	2.92	10.07	1.07	0.27	-13.62	0.04	30.00	43.62

Antenna port 1

Freq. [MHz]	S/A Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Correction Factor [dB]	Result		Limit [dBm/500kHz]	Margin [dB]
						[dBm/500kHz]	[mW/500kHz]		
5775.0	-27.89	2.92	10.07	1.07	0.27	-13.56	0.04	30.00	43.56

Result = Reading + Cable Loss + Atten. Loss + Duty Factor + Correction Factor

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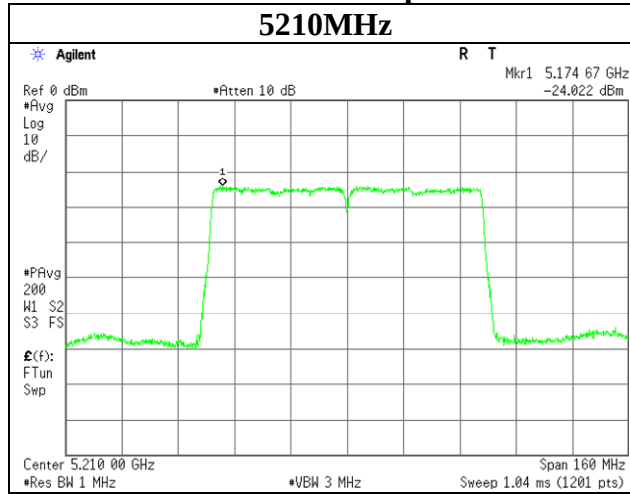
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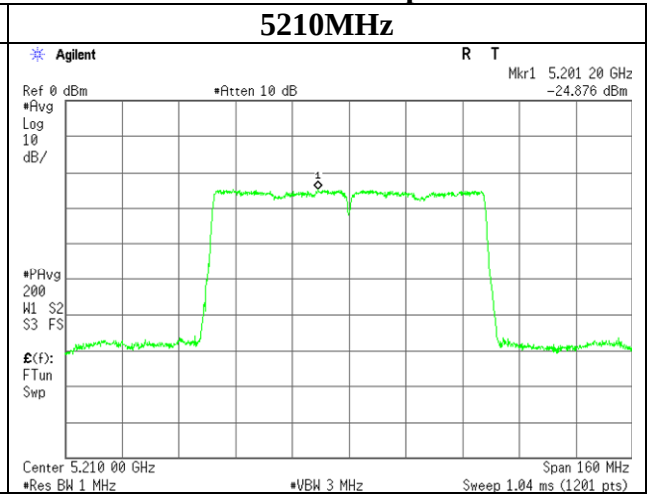
Facsimile : +81 596 24 8124

Maximum Power Spectral Density

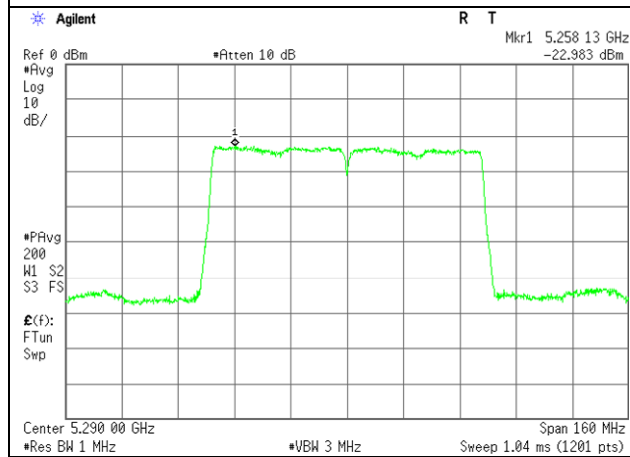
11ac-80 Antenna port 0



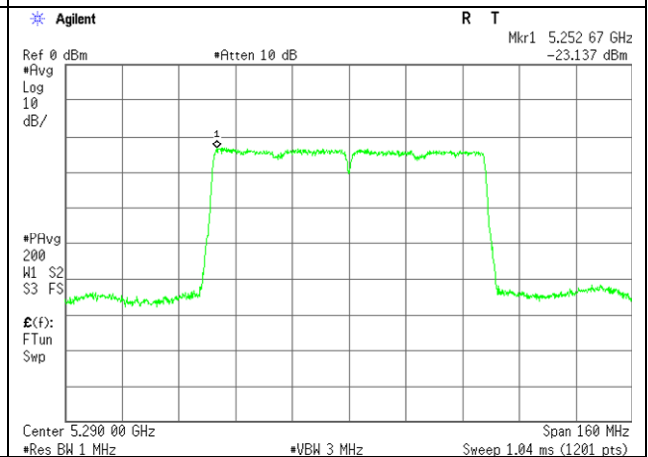
11ac-80 Antenna port 1



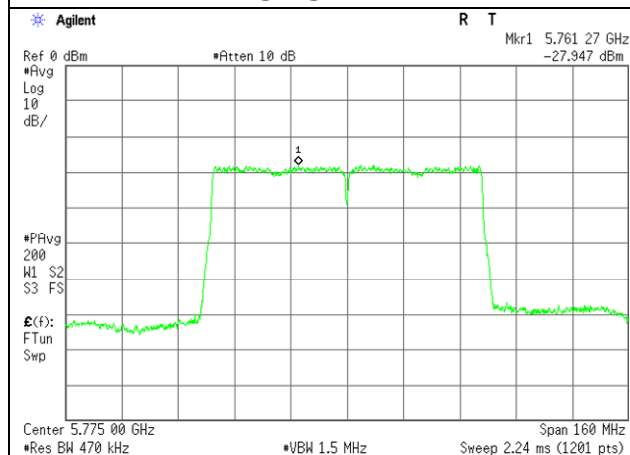
5290MHz



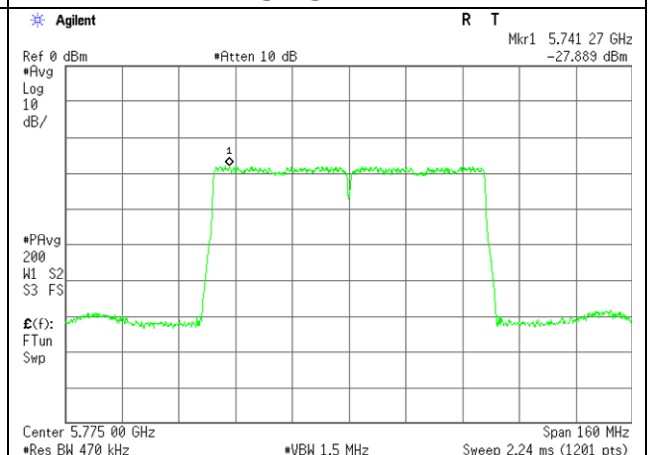
5290MHz



5775MHz



5775MHz



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Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 and No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/26/2015 06/29/2015 06/30/2015
Temperature/ Humidity : 23deg. C / 55% RH 22deg. C / 55% RH 22deg. C / 57% RH
Engineer : Yuta Moriya Keisuke Kawamura Keisuke Kawamura
(1-10GHz) (10-18GHz) (18-40GHz)
Mode : 11ac-20 Tx 5180MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5150.000	PK	49.0	32.2	3.9	31.2	-	53.9	73.9	20.0	
Hori	10360.000	PK	46.4	40.0	-1.7	34.4	-	50.3	73.9	23.6	
Hori	15540.000	PK	44.5	39.6	-0.1	33.5	-	50.5	73.9	23.4	Floor Noise
Hori	20720.000	PK	50.5	39.5	-0.8	33.2	-	56.0	73.9	17.9	
Hori	25900.000	PK	49.1	39.8	0.2	34.2	-	54.9	73.9	19.0	Floor Noise
Hori	5150.000	AV	40.1	32.2	3.9	31.2	0.3	45.3	53.9	8.6	*1)
Hori	10360.000	AV	39.5	40.0	-1.7	34.4	0.3	43.7	53.9	10.2	
Hori	15540.000	AV	35.8	39.6	-0.1	33.5	-	41.8	53.9	12.1	Floor Noise
Hori	20720.000	AV	44.5	39.5	-0.8	33.2	0.3	50.3	53.9	3.6	
Hori	25900.000	AV	40.4	39.8	0.2	34.2	-	46.2	53.9	7.7	Floor Noise
Vert	5150.000	PK	51.3	32.2	3.9	31.2	-	56.2	73.9	17.7	
Vert	10360.000	PK	46.9	40.0	-1.7	34.4	-	50.8	73.9	23.1	
Vert	15540.000	PK	44.1	39.6	-0.1	33.5	-	50.1	73.9	23.8	Floor Noise
Vert	20720.000	PK	48.9	39.5	-0.8	33.2	-	54.4	73.9	19.5	
Vert	25900.000	PK	49.3	39.8	0.2	34.2	-	55.1	73.9	18.8	Floor Noise
Vert	5150.000	AV	40.8	32.2	3.9	31.2	0.3	46.0	53.9	7.9	*1)
Vert	10360.000	AV	39.7	40.0	-1.7	34.4	0.3	43.9	53.9	10.0	
Vert	15540.000	AV	35.6	39.6	-0.1	33.5	-	41.6	53.9	12.3	Floor Noise
Vert	20720.000	AV	41.9	39.5	-0.8	33.2	0.3	47.7	53.9	6.2	
Vert	25900.000	AV	40.7	39.8	0.2	34.2	-	46.5	53.9	7.4	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz $20\log(3.0\text{ m} / 1.0\text{ m}) = 9.5\text{ dB}$
26.5 GHz - 40 GHz $20\log(3.0\text{ m} / 0.5\text{ m}) = 15.6\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

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Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 and No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/26/2015 06/29/2015 06/30/2015
Temperature/ Humidity : 23deg. C / 55% RH 22deg. C / 55% RH 22deg. C / 57% RH
Engineer : Yuta Moriya Keisuke Kawamura Keisuke Kawamura
(1-10GHz) (10-18GHz) (18-40GHz)
Mode : 11ac-20 Tx 5260MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	10520.000	PK	45.6	40.4	-1.7	34.3	-	50.0	73.9	23.9	Floor Noise
Hori	15780.000	PK	44.5	38.9	-0.2	33.6	-	49.6	73.9	24.3	
Hori	21040.000	PK	49.8	39.6	-0.7	33.3	-	55.4	73.9	18.5	
Hori	26300.000	PK	49.0	40.8	0.3	33.4	-	56.7	73.9	17.2	
Hori	10520.000	AV	38.1	40.4	-1.7	34.3	0.3	42.8	53.9	11.1	Floor Noise
Hori	15780.000	AV	35.8	38.9	-0.2	33.6	-	40.9	53.9	13.0	
Hori	21040.000	AV	44.2	39.6	-0.7	33.3	0.3	50.1	53.9	3.8	
Hori	26300.000	AV	40.5	40.8	0.3	33.4	-	48.2	53.9	5.7	
Vert	10520.000	PK	46.6	40.4	-1.7	34.3	-	51.0	73.9	22.9	Floor Noise
Vert	15780.000	PK	44.1	38.9	-0.2	33.6	-	49.2	73.9	24.7	
Vert	21040.000	PK	48.8	39.6	-0.7	33.3	-	54.4	73.9	19.5	
Vert	26300.000	PK	49.3	40.8	0.3	33.4	-	57.0	73.9	16.9	
Vert	10520.000	AV	38.8	40.4	-1.7	34.3	0.3	43.5	53.9	10.4	Floor Noise
Vert	15780.000	AV	35.6	38.9	-0.2	33.6	-	40.7	53.9	13.2	
Vert	21040.000	AV	42.2	39.6	-0.7	33.3	0.3	48.1	53.9	5.8	
Vert	26300.000	AV	40.8	40.8	0.3	33.4	-	48.5	53.9	5.4	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz 20log (3.0 m / 1.0 m) = 9.5 dB
26.5 GHz - 40 GHz 20log (3.0 m / 0.5 m) = 15.6 dB

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Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 and No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/26/2015 06/29/2015 06/30/2015
Temperature/ Humidity : 23deg. C / 55% RH 22deg. C / 55% RH 22deg. C / 57% RH
Engineer : Yuta Moriya Keisuke Kawamura Keisuke Kawamura
(1-10GHz) (10-18GHz) (18-40GHz)
Mode : 11ac-20 Tx 5320MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5350.000	PK	48.8	32.2	4.0	31.2	-	53.8	73.9	20.1	Floor Noise
Hori	10640.000	PK	47.6	40.8	-1.7	34.2	-	52.5	73.9	21.4	
Hori	15960.000	PK	44.5	38.4	-0.1	33.7	-	49.1	73.9	24.8	
Hori	21280.000	PK	49.0	39.8	-0.7	33.3	-	54.8	73.9	19.1	
Hori	5350.000	AV	35.1	32.2	4.0	31.2	0.3	40.4	53.9	13.5	*1) Floor Noise
Hori	10640.000	AV	41.8	40.8	-1.7	34.2	0.3	47.0	53.9	6.9	
Hori	15960.000	AV	35.8	38.4	-0.1	33.7	-	40.4	53.9	13.5	
Hori	21280.000	AV	41.5	39.8	-0.7	33.3	0.3	47.6	53.9	6.3	
Vert	5350.000	PK	50.7	32.2	4.0	31.2	-	55.7	73.9	18.2	Floor Noise
Vert	10640.000	PK	47.7	40.8	-1.7	34.2	-	52.6	73.9	21.3	
Vert	15960.000	PK	44.1	38.4	-0.1	33.7	-	48.7	73.9	25.2	
Vert	21280.000	PK	49.5	39.8	-0.7	33.3	-	55.3	73.9	18.6	
Vert	5350.000	AV	40.0	32.2	4.0	31.2	0.3	45.3	53.9	8.6	*1) Floor Noise
Vert	10640.000	AV	41.1	40.8	-1.7	34.2	0.3	46.3	53.9	7.6	
Vert	15960.000	AV	35.6	38.4	-0.1	33.7	-	40.2	53.9	13.7	
Vert	21280.000	AV	42.4	39.8	-0.7	33.3	0.3	48.5	53.9	5.4	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz $20\log(3.0\text{ m} / 1.0\text{ m}) = 9.5\text{ dB}$

26.5 GHz - 40 GHz $20\log(3.0\text{ m} / 0.5\text{ m}) = 15.6\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 and No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/26/2015 06/29/2015 06/30/2015
Temperature/ Humidity : 23deg. C / 55% RH 22deg. C / 55% RH 22deg. C / 57% RH
Engineer : Yuta Moriya Keisuke Kawamura Keisuke Kawamura
(1-10GHz) (10-18GHz) (18-40GHz)
Mode : 11ac-20 Tx 5745MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5725.000	PK	54.4	32.6	4.2	31.2	-	60.0	73.9	13.9	
Hori	11490.000	PK	49.5	41.1	-1.2	33.7	-	55.7	73.9	18.2	
Hori	17235.000	PK	44.5	42.8	0.3	32.7	-	54.9	73.9	19.0	Floor Noise
Hori	22980.000	PK	47.8	40.8	-0.4	32.1	-	56.1	73.9	17.8	
Hori	5725.000	AV	39.2	32.6	4.2	31.2	0.3	45.1	53.9	8.8	*1)
Hori	11490.000	AV	44.6	41.1	-1.2	33.7	-	50.8	53.9	3.1	*2)
Hori	17235.000	AV	35.8	42.8	0.3	32.7	-	46.2	53.9	7.7	Floor Noise
Hori	22980.000	AV	41.4	40.8	-0.4	32.1	-	49.7	53.9	4.2	*2)
Vert	5725.000	PK	56.9	32.6	4.2	31.2	-	62.5	73.9	11.4	
Vert	11490.000	PK	45.6	41.1	-1.2	33.7	-	51.8	73.9	22.1	
Vert	17235.000	PK	44.1	42.8	0.3	32.7	-	54.5	73.9	19.4	Floor Noise
Vert	22980.000	PK	48.1	40.8	-0.4	32.1	-	56.4	73.9	17.5	
Vert	5725.000	AV	42.3	32.6	4.2	31.2	0.3	48.2	53.9	5.7	*1)
Vert	11490.000	AV	38.2	41.1	-1.2	33.7	-	44.4	53.9	9.5	*2)
Vert	17235.000	AV	35.6	42.8	0.3	32.7	-	46.0	53.9	7.9	Floor Noise
Vert	22980.000	AV	41.5	40.8	-0.4	32.1	-	49.8	53.9	4.1	*2)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz $20\log(3.0\text{ m} / 1.0\text{ m}) = 9.5\text{ dB}$

26.5 GHz - 40 GHz $20\log(3.0\text{ m} / 0.5\text{ m}) = 15.6\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

*2) Noises that had duty cycle synchronized with the fundamental frequency were not detected at the harmonics frequencies.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 and No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/26/2015 06/29/2015 06/30/2015
Temperature/ Humidity : 23deg. C / 55% RH 22deg. C / 55% RH 22deg. C / 57% RH
Engineer : Yuta Moriya Keisuke Kawamura Keisuke Kawamura
(1-10GHz) (10-18GHz) (18-40GHz)
Mode : 11ac-20 Tx 5785MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	11570.000	PK	48.9	41.0	-1.1	33.7	-	55.1	73.9	18.8	Floor Noise
Hori	17355.000	PK	44.4	43.4	0.4	32.7	-	55.5	73.9	18.4	
Hori	23140.000	PK	48.4	40.6	-0.4	32.0	-	56.6	73.9	17.3	
Hori	11570.000	AV	45.2	41.0	-1.1	33.7	-	51.4	53.9	2.5	*1)
Hori	17355.000	AV	35.9	43.4	0.4	32.7	-	47.0	53.9	6.9	Floor Noise
Hori	23140.000	AV	41.5	40.6	-0.4	32.0	-	49.7	53.9	4.2	*1)
Vert	11570.000	PK	45.8	41.0	-1.1	33.7	-	52.0	73.9	21.9	Floor Noise
Vert	17355.000	PK	44.0	43.4	0.4	32.7	-	55.1	73.9	18.8	
Vert	23140.000	PK	47.9	40.6	-0.4	32.0	-	56.1	73.9	17.8	
Vert	11570.000	AV	39.7	41.0	-1.1	33.7	-	45.9	53.9	8.0	*1)
Vert	17355.000	AV	35.4	43.4	0.4	32.7	-	46.5	53.9	7.4	Floor Noise
Vert	23140.000	AV	39.5	40.6	-0.4	32.0	-	47.7	53.9	6.2	*1)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier)

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz $20\log(3.0\text{ m} / 1.0\text{ m}) = 9.5\text{ dB}$

26.5 GHz - 40 GHz $20\log(3.0\text{ m} / 0.5\text{ m}) = 15.6\text{ dB}$

*1) Noises that had duty cycle synchronized with the fundamental frequency were not detected at the harmonics frequencies.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 and No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/26/2015 06/29/2015 06/30/2015
Temperature/ Humidity : 23deg. C / 55% RH 22deg. C / 55% RH 22deg. C / 57% RH
Engineer : Yuta Moriya Keisuke Kawamura Keisuke Kawamura
(1-10GHz) (10-18GHz) (18-40GHz)
Mode : 11ac-20 Tx 5825MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5850.000	PK	48.6	32.8	4.2	31.2	-	54.4	73.9	19.5	Floor Noise
Hori	11650.000	PK	49.3	40.9	-1.1	33.6	-	55.5	73.9	18.4	
Hori	17475.000	PK	44.5	43.9	0.5	32.7	-	56.2	73.9	17.7	
Hori	23300.000	PK	50.0	40.3	-0.4	32.0	-	57.9	73.9	16.0	
Hori	5850.000	AV	37.1	32.8	4.2	31.2	0.3	43.2	53.9	10.7	*1)
Hori	11650.000	AV	45.2	40.9	-1.1	33.6	-	51.4	53.9	2.5	*2)
Hori	17475.000	AV	36.0	43.9	0.5	32.7	-	47.7	53.9	6.2	Floor Noise
Hori	23300.000	AV	42.7	40.3	-0.4	32.0	-	50.6	53.9	3.3	*2)
Vert	5850.000	PK	50.5	32.8	4.2	31.2	-	56.3	73.9	17.6	Floor Noise
Vert	11650.000	PK	45.9	40.9	-1.1	33.6	-	52.1	73.9	21.8	
Vert	17475.000	PK	44.1	43.9	0.5	32.7	-	55.8	73.9	18.1	
Vert	23300.000	PK	49.3	40.3	-0.4	32.0	-	57.2	73.9	16.7	
Vert	5850.000	AV	38.4	32.8	4.2	31.2	0.3	44.5	53.9	9.4	*1)
Vert	11650.000	AV	39.9	40.9	-1.1	33.6	-	46.1	53.9	7.8	*2)
Vert	17475.000	AV	35.5	43.9	0.5	32.7	-	47.2	53.9	6.7	Floor Noise
Vert	23300.000	AV	43.0	40.3	-0.4	32.0	-	50.9	53.9	3.0	*2)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz $20\log(3.0\text{ m} / 1.0\text{ m}) = 9.5\text{ dB}$

26.5 GHz - 40 GHz $20\log(3.0\text{ m} / 0.5\text{ m}) = 15.6\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

*2) Noises that had duty cycle synchronized with the fundamental frequency were not detected at the harmonics frequencies.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 and No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/26/2015 06/29/2015 06/30/2015
Temperature/ Humidity : 23deg. C / 55% RH 22deg. C / 55% RH 22deg. C / 57% RH
Engineer : Yuta Moriya Keisuke Kawamura Keisuke Kawamura
(1-10GHz) (10-18GHz) (18-40GHz)
Mode : 11ac-40 Tx 5190MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5150.000	PK	62.7	32.2	3.9	31.2	-	67.6	73.9	6.3	
Hori	10380.000	PK	48.4	40.0	-1.7	34.4	-	52.3	73.9	21.6	
Hori	15570.000	PK	44.5	39.5	-0.1	33.5	-	50.4	73.9	23.5	Floor Noise
Hori	20760.000	PK	50.5	39.5	-0.8	33.2	-	56.0	73.9	17.9	
Hori	25950.000	PK	48.9	39.8	0.2	34.3	-	54.6	73.9	19.3	Floor Noise
Hori	5150.000	AV	47.9	32.2	3.9	31.2	0.7	53.5	53.9	0.5	*1)
Hori	10380.000	AV	42.8	40.0	-1.7	34.4	0.7	47.4	53.9	6.6	
Hori	15570.000	AV	36.0	39.5	-0.1	33.5	-	41.9	53.9	12.0	Floor Noise
Hori	20760.000	AV	43.8	39.5	-0.8	33.2	0.7	50.0	53.9	4.0	
Hori	25950.000	AV	39.8	39.8	0.2	34.3	-	45.5	53.9	8.4	Floor Noise
Vert	5150.000	PK	60.3	32.2	3.9	31.2	-	65.2	73.9	8.7	
Vert	10380.000	PK	49.0	40.0	-1.7	34.4	-	52.9	73.9	21.0	
Vert	15570.000	PK	44.1	39.5	-0.1	33.5	-	50.0	73.9	23.9	Floor Noise
Vert	20760.000	PK	48.5	39.5	-0.8	33.2	-	54.0	73.9	19.9	
Vert	25950.000	PK	48.6	39.8	0.2	34.3	-	54.3	73.9	19.6	Floor Noise
Vert	5150.000	AV	44.0	32.2	3.9	31.2	0.7	49.6	53.9	4.3	*1)
Vert	10380.000	AV	42.0	40.0	-1.7	34.4	0.7	46.6	53.9	7.4	
Vert	15570.000	AV	35.5	39.5	-0.1	33.5	-	41.4	53.9	12.5	Floor Noise
Vert	20760.000	AV	41.6	39.5	-0.8	33.2	0.7	47.8	53.9	6.2	
Vert	25950.000	AV	40.1	39.8	0.2	34.3	-	45.8	53.9	8.1	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz $20\log(3.0\text{ m} / 1.0\text{ m}) = 9.5\text{ dB}$

26.5 GHz - 40 GHz $20\log(3.0\text{ m} / 0.5\text{ m}) = 15.6\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 and No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/26/2015 06/29/2015 06/30/2015
Temperature/ Humidity : 23deg. C / 55% RH 22deg. C / 55% RH 22deg. C / 57% RH
Engineer : Yuta Moriya Keisuke Kawamura Keisuke Kawamura
(1-10GHz) (10-18GHz) (18-40GHz)
Mode : 11ac-40 Tx 5270MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	10540.000	PK	47.0	40.5	-1.7	34.3	-	51.5	73.9	22.4	Floor Noise
Hori	15810.000	PK	44.5	38.8	-0.2	33.6	-	49.5	73.9	24.4	
Hori	21080.000	PK	49.8	39.6	-0.7	33.3	-	55.4	73.9	18.5	
Hori	26350.000	PK	49.1	41.0	0.3	33.3	-	57.1	73.9	16.8	
Hori	10540.000	AV	40.6	40.5	-1.7	34.3	0.7	45.8	53.9	8.2	Floor Noise
Hori	15810.000	AV	36.2	38.8	-0.2	33.6	-	41.2	53.9	12.7	
Hori	21080.000	AV	43.7	39.6	-0.7	33.3	0.7	50.0	53.9	3.9	
Hori	26350.000	AV	39.8	41.0	0.3	33.3	-	47.8	53.9	6.1	
Vert	10540.000	PK	47.7	40.5	-1.7	34.3	-	52.2	73.9	21.7	Floor Noise
Vert	15810.000	PK	44.2	38.8	-0.2	33.6	-	49.2	73.9	24.7	
Vert	21080.000	PK	49.6	39.6	-0.7	33.3	-	55.2	73.9	18.7	
Vert	26350.000	PK	49.0	41.0	0.3	33.3	-	57.0	73.9	16.9	
Vert	10540.000	AV	42.0	40.5	-1.7	34.3	0.7	47.2	53.9	6.8	Floor Noise
Vert	15810.000	AV	36.0	38.8	-0.2	33.6	-	41.0	53.9	12.9	
Vert	21080.000	AV	43.9	39.6	-0.7	33.3	0.7	50.2	53.9	3.8	
Vert	26350.000	AV	40.0	41.0	0.3	33.3	-	48.0	53.9	5.9	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz 20log (3.0 m / 1.0 m) = 9.5 dB
26.5 GHz - 40 GHz 20log (3.0 m / 0.5 m) = 15.6 dB

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 and No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/26/2015 06/29/2015 06/30/2015
Temperature/ Humidity : 23deg. C / 55% RH 22deg. C / 55% RH 22deg. C / 57% RH
Engineer : Yuta Moriya Keisuke Kawamura Keisuke Kawamura
Mode : (1-10GHz) (10-18GHz) (18-40GHz & Below 1GHz)
11ac-40 Tx 5310MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	34.051	QP	22.6	16.1	7.1	32.3	-	13.5	40.0	26.5	
Hori	70.791	QP	26.7	6.2	7.7	32.1	-	8.5	40.0	31.5	
Hori	111.718	QP	26.1	11.7	8.2	32.2	-	13.8	43.5	29.7	
Hori	119.697	QP	22.9	12.7	8.3	32.2	-	11.7	43.5	31.8	
Hori	127.681	QP	24.4	13.4	8.4	32.2	-	14.0	43.5	29.5	
Hori	533.326	QP	25.9	18.6	11.4	32.1	-	23.8	46.0	22.2	
Hori	5350.000	PK	60.6	32.2	4.0	31.2	-	65.6	73.9	8.3	
Hori	10620.000	PK	47.8	40.7	-1.7	34.2	-	52.6	73.9	21.3	
Hori	15930.000	PK	44.4	38.5	-0.1	33.7	-	49.1	73.9	24.8	
Hori	21240.000	PK	48.9	39.8	-0.7	33.3	-	54.7	73.9	19.2	
Hori	5350.000	AV	46.3	32.2	4.0	31.2	0.7	52.0	53.9	2.0	*1)
Hori	10620.000	AV	42.3	40.7	-1.7	34.2	0.7	47.8	53.9	6.2	
Hori	15930.000	AV	36.1	38.5	-0.1	33.7	-	40.8	53.9	13.1	Floor Noise
Hori	21240.000	AV	41.6	39.8	-0.7	33.3	0.7	48.1	53.9	5.8	
Vert	34.051	QP	26.7	16.1	7.1	32.3	-	17.6	40.0	22.4	
Vert	70.691	QP	36.5	6.2	7.7	32.1	-	18.3	40.0	21.7	
Vert	111.718	QP	31.1	11.7	8.2	32.2	-	18.8	43.5	24.7	
Vert	119.697	QP	28.4	12.7	8.3	32.2	-	17.2	43.5	26.3	
Vert	127.681	QP	33.2	13.4	8.4	32.2	-	22.8	43.5	20.7	
Vert	533.326	QP	31.1	18.6	11.4	32.1	-	29.0	46.0	17.0	
Vert	5350.000	PK	58.1	32.2	4.0	31.2	-	63.1	73.9	10.8	
Vert	10620.000	PK	47.3	40.7	-1.7	34.2	-	52.1	73.9	21.8	
Vert	15930.000	PK	44.1	38.5	-0.1	33.7	-	48.8	73.9	25.1	
Vert	21240.000	PK	49.3	39.8	-0.7	33.3	-	55.1	73.9	18.8	
Vert	5350.000	AV	43.4	32.2	4.0	31.2	0.7	49.1	53.9	4.9	*1)
Vert	10620.000	AV	41.0	40.7	-1.7	34.2	0.7	46.5	53.9	7.5	
Vert	15930.000	AV	35.8	38.5	-0.1	33.7	-	40.5	53.9	13.4	Floor Noise
Vert	21240.000	AV	42.2	39.8	-0.7	33.3	0.7	48.7	53.9	5.3	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz 20log (3.0 m / 1.0 m) = 9.5 dB
26.5 GHz - 40 GHz 20log (3.0 m / 0.5 m) = 15.6 dB

*1) Not Out of Band emission(Leakage Power)

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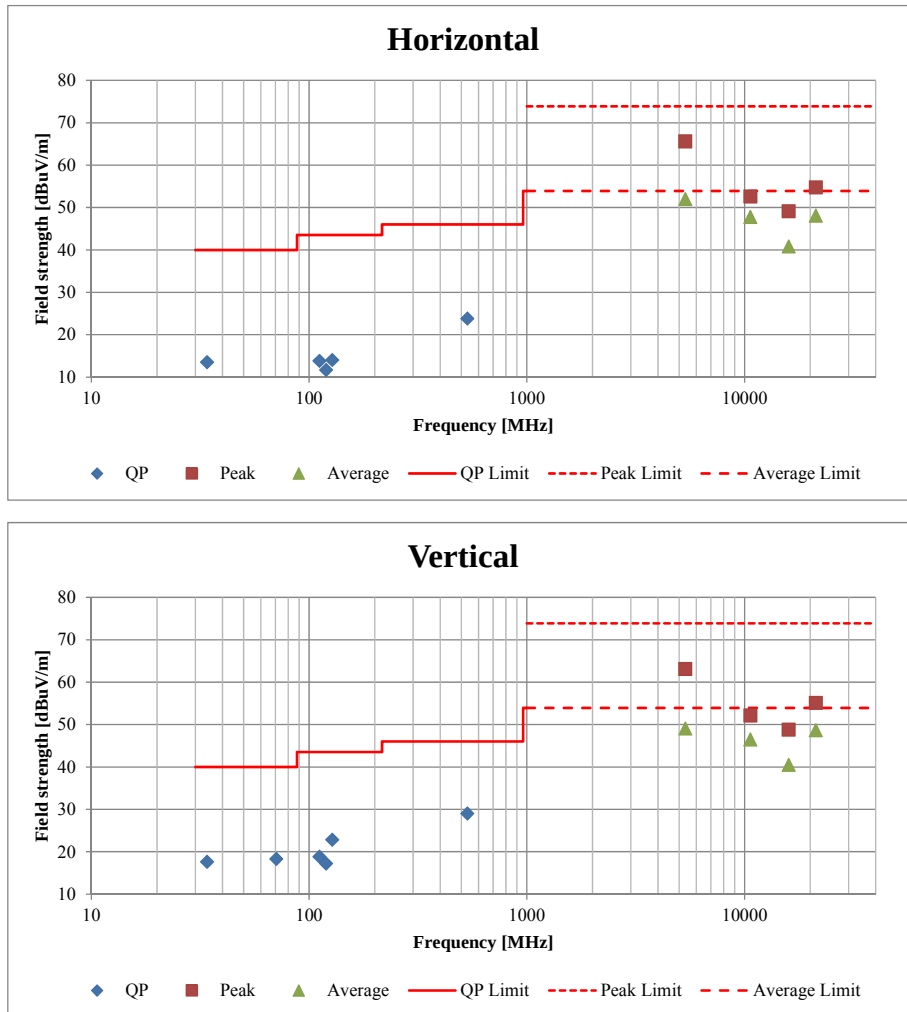
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission (Plot data, Worst case)

Test place	Ise EMC Lab. No.3 and No.2 Anechoic Chamber		
Report No.	10812026H		
Date	06/26/2015	06/29/2015	06/30/2015
Temperature/ Humidity	23deg. C / 55% RH	22deg. C / 55% RH	22deg. C / 57% RH
Engineer	Yuta Moriya	Keisuke Kawamura	Keisuke Kawamura
	(1-10GHz)	(10-18GHz)	(18-40GHz & Below 1GHz)
Mode	11ac-40 Tx 5310MHz		



*These plots data contains sufficient number to show the trend of characteristic features for EUT.

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4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 and No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/26/2015 06/29/2015 06/30/2015
Temperature/ Humidity : 23deg. C / 55% RH 22deg. C / 55% RH 22deg. C / 57% RH
Engineer : Yuta Moriya Keisuke Kawamura Keisuke Kawamura
(1-10GHz) (10-18GHz) (18-40GHz)
Mode : 11ac-40 Tx 5755MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5725.000	PK	58.4	32.6	4.2	31.2	-	64.0	73.9	9.9	
Hori	11510.000	PK	50.5	41.1	-1.1	33.7	-	56.8	73.9	17.1	
Hori	17265.000	PK	44.4	43.0	0.3	32.7	-	55.0	73.9	18.9	
Hori	23020.000	PK	49.8	40.8	-0.4	32.0	-	58.2	73.9	15.7	
Hori	5725.000	AV	43.6	32.6	4.2	31.2	0.7	49.9	53.9	4.1	*1)
Hori	11510.000	AV	47.5	41.1	-1.1	33.7	-	53.8	53.9	0.1	*2)
Hori	17265.000	AV	36.1	43.0	0.3	32.7	-	46.7	53.9	7.2	Floor Noise
Hori	23020.000	AV	43.0	40.8	-0.4	32.0	-	51.4	53.9	2.5	*2)
Vert	5725.000	PK	62.6	32.6	4.2	31.2	-	68.2	73.9	5.7	
Vert	11510.000	PK	47.0	41.1	-1.1	33.7	-	53.3	73.9	20.6	
Vert	17265.000	PK	44.1	43.0	0.3	32.7	-	54.7	73.9	19.2	
Vert	23020.000	PK	48.1	40.8	-0.4	32.0	-	56.5	73.9	17.4	
Vert	5725.000	AV	47.2	32.6	4.2	31.2	0.7	53.5	53.9	0.4	*1)
Vert	11510.000	AV	40.6	41.1	-1.1	33.7	-	46.9	53.9	7.0	*2)
Vert	17265.000	AV	35.8	43.0	0.3	32.7	-	46.4	53.9	7.5	Floor Noise
Vert	23020.000	AV	41.1	40.8	-0.4	32.0	-	49.5	53.9	4.4	*2)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz $20\log(3.0\text{ m} / 1.0\text{ m}) = 9.5\text{ dB}$

26.5 GHz - 40 GHz $20\log(3.0\text{ m} / 0.5\text{ m}) = 15.6\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

*2) Noises that had duty cycle synchronized with the fundamental frequency were not detected at the harmonics frequencies.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

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Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 and No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/26/2015 06/29/2015 06/30/2015
Temperature/ Humidity : 23deg. C / 55% RH 22deg. C / 55% RH 22deg. C / 57% RH
Engineer : Yuta Moriya Keisuke Kawamura Keisuke Kawamura
(1-10GHz) (10-18GHz) (18-40GHz)
Mode : 11ac-40 Tx 5795MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5850.000	PK	53.0	32.8	4.2	31.2	-	58.8	73.9	15.1	
Hori	11590.000	PK	50.0	41.0	-1.1	33.7	-	56.2	73.9	17.7	
Hori	17385.000	PK	44.4	43.5	0.4	32.7	-	55.6	73.9	18.3	
Hori	23180.000	PK	49.2	40.5	-0.4	32.0	-	57.3	73.9	16.6	
Hori	5850.000	AV	39.9	32.8	4.2	31.2	0.7	46.4	53.9	7.6	*1)
Hori	11590.000	AV	45.6	41.0	-1.1	33.7	-	51.8	53.9	2.1	*2)
Hori	17385.000	AV	36.1	43.5	0.4	32.7	-	47.3	53.9	6.6	Floor Noise
Hori	23180.000	AV	41.7	40.5	-0.4	32.0	-	49.8	53.9	4.1	*2)
Vert	5850.000	PK	55.4	32.8	4.2	31.2	-	61.2	73.9	12.7	
Vert	11590.000	PK	46.5	41.0	-1.1	33.7	-	52.7	73.9	21.2	
Vert	17385.000	PK	44.1	43.5	0.4	32.7	-	55.3	73.9	18.6	
Vert	23180.000	PK	48.6	40.5	-0.4	32.0	-	56.7	73.9	17.2	
Vert	5850.000	AV	42.0	32.8	4.2	31.2	0.7	48.5	53.9	5.5	*1)
Vert	11590.000	AV	40.0	41.0	-1.1	33.7	-	46.2	53.9	7.7	*2)
Vert	17385.000	AV	35.8	43.5	0.4	32.7	-	47.0	53.9	6.9	Floor Noise
Vert	23180.000	AV	42.4	40.5	-0.4	32.0	-	50.5	53.9	3.4	*2)

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz $20\log(3.0\text{ m} / 1.0\text{ m}) = 9.5\text{ dB}$
26.5 GHz - 40 GHz $20\log(3.0\text{ m} / 0.5\text{ m}) = 15.6\text{ dB}$

*1) Not Out of Band emission(Leakage Power)

*2) Noises that had duty cycle synchronized with the fundamental frequency were not detected at the harmonics frequencies.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/29/2015 07/02/2015
Temperature/ Humidity : 22deg. C / 55% RH 21deg. C / 58% RH
Engineer : Keisuke Kawamura Takafumi Noguchi
(1-10GHz) (10-40GHz)
Mode : 11ac-80 Tx 5210MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5133.037	PK	56.2	33.0	4.2	34.2	-	59.2	73.9	14.7	
Hori	5150.000	PK	54.5	33.0	4.2	34.1	-	57.6	68.2	10.6	
Hori	10420.000	PK	49.0	40.1	-1.7	34.4	-	53.0	73.9	20.9	
Hori	15630.000	PK	44.4	39.3	-0.1	33.5	-	50.1	73.9	23.8	Floor Noise
Hori	20840.000	PK	49.1	39.5	-0.8	33.3	-	54.5	73.9	19.4	
Hori	26050.000	PK	49.1	40.0	0.3	34.1	-	55.3	73.9	18.6	Floor Noise
Hori	5133.037	AV	41.5	33.0	4.2	34.2	2.7	47.2	53.9	6.7	*1)
Hori	5150.000	AV	42.3	33.0	4.2	34.1	2.7	48.1	53.9	5.8	*1)
Hori	10420.000	AV	45.1	40.1	-1.7	34.4	-	49.1	53.9	4.8	*2)
Hori	15630.000	AV	36.2	39.3	-0.1	33.5	-	41.9	53.9	12.0	Floor Noise
Hori	20840.000	AV	39.6	39.5	-0.8	33.3	2.7	47.7	53.9	6.2	
Hori	26050.000	AV	40.0	40.0	0.3	34.1	-	46.2	53.9	7.7	Floor Noise
Vert	5133.037	PK	54.9	33.0	4.2	34.2	-	57.9	73.9	16.0	
Vert	5150.000	PK	52.9	33.0	4.2	34.1	-	56.0	68.2	12.2	
Vert	10420.000	PK	45.0	40.1	-1.7	34.4	-	49.0	73.9	24.9	
Vert	15630.000	PK	44.3	39.3	-0.1	33.5	-	50.0	73.9	23.9	Floor Noise
Vert	20840.000	PK	47.6	39.5	-0.8	33.3	-	53.0	73.9	20.9	
Vert	26050.000	PK	49.2	40.0	0.3	34.1	-	55.4	73.9	18.5	Floor Noise
Vert	5133.037	AV	40.8	33.0	4.2	34.2	2.7	46.5	53.9	7.4	*1)
Vert	5150.000	AV	37.9	33.0	4.2	34.1	2.7	43.7	53.9	10.2	*1)
Vert	10420.000	AV	37.3	40.1	-1.7	34.4	-	41.3	53.9	12.6	*2)
Vert	15630.000	AV	36.0	39.3	-0.1	33.5	-	41.7	53.9	12.2	Floor Noise
Vert	20840.000	AV	39.9	39.5	-0.8	33.3	2.7	48.0	53.9	5.9	
Vert	26050.000	AV	40.0	40.0	0.3	34.1	-	46.2	53.9	7.7	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz 20log (3.0 m / 1.0 m) = 9.5 dB

26.5 GHz - 40 GHz 20log (3.0 m / 0.5 m) = 15.6 dB

*1) Not Out of Band emission(Leakage Power)

*2) Noises that had duty cycle synchronized with the fundamental frequency were not detected at the harmonics frequencies.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.2 Anechoic Chamber
Report No. : 10812026H
Date : 07/01/2015 07/02/2015
Temperature/ Humidity : 18deg. C / 58% RH 21deg. C / 58% RH
Engineer : Takafumi Noguchi Takafumi Noguchi
(1-10GHz) (10-40GHz)
Mode : 11ac-80 Tx 5290MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	5350.000	PK	54.0	32.9	4.3	34.0	-	57.2	73.9	16.7	
Hori	5377.555	PK	57.0	32.9	4.3	34.0	-	60.2	73.9	13.7	
Hori	10580.000	PK	50.0	40.6	-1.7	34.3	-	54.6	73.9	19.3	
Hori	15870.000	PK	44.4	38.7	-0.2	33.6	-	49.3	73.9	24.6	Floor Noise
Hori	21160.000	PK	47.0	39.7	-0.7	33.3	-	52.7	73.9	21.2	
Hori	26450.000	PK	49.0	41.3	0.3	33.0	-	57.6	73.9	16.3	Floor Noise
Hori	5350.000	AV	41.0	32.9	4.3	34.0	2.7	46.9	53.9	7.0	*1)
Hori	5377.555	AV	46.7	32.9	4.3	34.0	2.7	52.6	53.9	1.3	*1)
Hori	10580.000	AV	46.1	40.6	-1.7	34.3	-	50.7	53.9	3.2	*2)
Hori	15870.000	AV	35.6	38.7	-0.2	33.6	-	40.5	53.9	13.4	Floor Noise
Hori	21160.000	AV	38.3	39.7	-0.7	33.3	2.7	46.7	53.9	7.2	
Hori	26450.000	AV	39.9	41.3	0.3	33.0	-	48.5	53.9	5.4	Floor Noise
Vert	5350.000	PK	54.8	32.9	4.3	34.0	-	58.0	73.9	15.9	
Vert	5377.555	PK	58.8	32.9	4.3	34.0	-	62.0	73.9	11.9	
Vert	10580.000	PK	46.3	40.6	-1.7	34.3	-	50.9	73.9	23.0	
Vert	15870.000	PK	44.4	38.7	-0.2	33.6	-	49.3	73.9	24.6	Floor Noise
Vert	21160.000	PK	47.1	39.7	-0.7	33.3	-	52.8	73.9	21.1	
Vert	26450.000	PK	49.1	41.3	0.3	33.0	-	57.7	73.9	16.2	Floor Noise
Vert	5350.000	AV	41.8	32.9	4.3	34.0	2.7	47.7	53.9	6.2	*1)
Vert	5377.555	AV	46.3	32.9	4.3	34.0	2.7	52.2	53.9	1.7	*1)
Vert	10580.000	AV	39.3	40.6	-1.7	34.3	-	43.9	53.9	10.0	*2)
Vert	15870.000	AV	35.6	38.7	-0.2	33.6	-	40.5	53.9	13.4	Floor Noise
Vert	21160.000	AV	38.0	39.7	-0.7	33.3	2.7	46.4	53.9	7.5	
Vert	26450.000	AV	39.4	41.3	0.3	33.0	-	48.0	53.9	5.9	Floor Noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10 GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor: 10 GHz - 26.5 GHz 20log (3.0 m / 1.0 m) = 9.5 dB
26.5 GHz - 40 GHz 20log (3.0 m / 0.5 m) = 15.6 dB

*1) Not Out of Band emission(Leakage Power)

*2) Noises that had duty cycle synchronized with the fundamental frequency were not detected at the harmonics frequencies.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Radiated Spurious Emission

Test place : Ise EMC Lab. No.2 Anechoic Chamber
Report No. : 10812026H
Date : 06/15/2015 07/02/2015
Temperature/ Humidity : 24deg. C / 67% RH 21deg. C / 58% RH
Engineer : Keisuke Kawamura Takafumi Noguchi
(1-10GHz) (10-40GHz)
Mode : 11ac-80 Tx 5775MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Duty Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	3850.067	PK	47.3	29.7	3.4	31.5	-	48.9	73.9	25.0	
Hori	5723.017	PK	55.9	32.6	4.2	31.2	-	61.5	73.9	12.4	
Hori	5725.000	PK	55.6	32.6	4.2	31.2	-	61.2	73.9	12.7	
Hori	5850.000	PK	51.9	32.8	4.2	31.2	-	57.7	73.9	16.2	
Hori	5852.233	PK	54.1	32.8	4.2	31.2	-	59.9	73.9	14.0	
Hori	11550.000	PK	50.2	41.0	-1.1	33.7	-	56.4	73.9	17.5	
Hori	17325.000	PK	44.2	43.2	0.3	32.7	-	55.0	73.9	18.9	Floor Noise
Hori	23100.000	PK	46.1	40.6	-0.4	32.0	-	54.3	73.9	19.6	
Hori	3850.067	AV	40.1	29.7	3.4	31.5	2.7	44.4	53.9	9.5	
Hori	5723.017	AV	41.5	32.6	4.2	31.2	2.7	49.8	53.9	4.1	*1)
Hori	5725.000	AV	40.1	32.6	4.2	31.2	2.7	48.4	53.9	5.5	*1)
Hori	5850.000	AV	36.7	32.8	4.2	31.2	2.7	45.2	53.9	8.7	*1)
Hori	5852.233	AV	40.8	32.8	4.2	31.2	2.7	49.3	53.9	4.6	*1)
Hori	11550.000	AV	46.5	41.0	-1.1	33.7	-	52.7	53.9	1.2	*2)
Hori	17325.000	AV	35.8	43.2	0.3	32.7	-	46.6	53.9	7.3	Floor Noise
Hori	23100.000	AV	37.3	40.6	-0.4	32.0	2.7	48.2	53.9	5.7	
Vert	3850.067	PK	44.3	29.7	3.4	31.5	-	45.9	73.9	28.0	
Vert	5722.233	PK	57.6	32.6	4.2	31.2	-	63.2	73.9	10.7	
Vert	5725.000	PK	56.2	32.6	4.2	31.2	-	61.8	73.9	12.1	
Vert	5850.000	PK	51.2	32.8	4.2	31.2	-	57.0	73.9	16.9	
Vert	5852.667	PK	54.8	32.8	4.2	31.2	-	60.6	73.9	13.3	
Vert	11550.000	PK	44.6	41.0	-1.1	33.7	-	50.8	73.9	23.1	
Vert	17325.000	PK	44.9	43.2	0.3	32.7	-	55.7	73.9	18.2	Floor Noise
Vert	23100.000	PK	46.6	40.6	-0.4	32.0	-	54.8	73.9	19.1	
Vert	3850.067	AV	35.1	29.7	3.4	31.5	2.7	39.4	53.9	14.5	
Vert	5722.233	AV	42.1	32.6	4.2	31.2	2.7	50.4	53.9	3.5	*1)
Vert	5725.000	AV	37.4	32.6	4.2	31.2	2.7	45.7	53.9	8.2	*1)
Vert	5850.000	AV	36.4	32.8	4.2	31.2	2.7	44.9	53.9	9.0	*1)
Vert	5852.667	AV	42.6	32.8	4.2	31.2	2.7	51.1	53.9	2.8	*1)
Vert	11550.000	AV	38.0	41.0	-1.1	33.7	-	44.2	53.9	9.7	*2)
Vert	17325.000	AV	35.8	43.2	0.3	32.7	-	46.6	53.9	7.3	Floor Noise
Vert	23100.000	AV	37.0	40.6	-0.4	32.0	2.7	47.9	53.9	6.0	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz)) - Gain(Amplifier) + Duty factor

*Other frequency noises omitted in this report were not seen or had enough margin (more than 20dB).

Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

*1) Not Out of Band emission(Leakage Power)

*2) Noises that had duty cycle synchronized with the fundamental frequency were not detected at the harmonics frequencies.

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Ise EMC Lab.

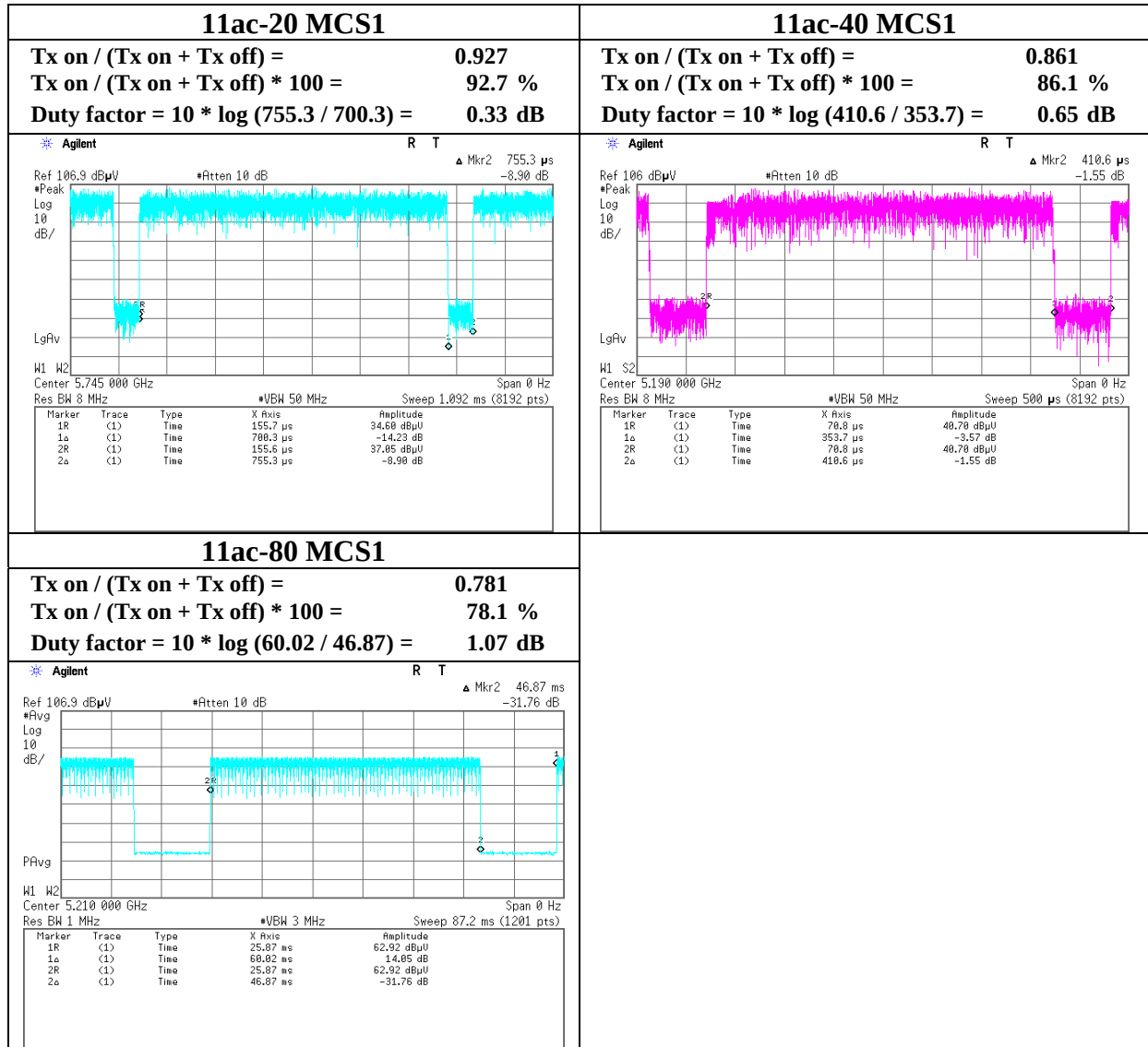
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Burst rate confirmation

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No. : 10812026H
Date : 06/08/2015
Temperature/ Humidity : 23deg. C / 58% RH
Engineer : Tomohisa Nakagawa
Mode : 11ac-20 / 11ac-40 / 11ac-80 Tx



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Ise EMC Lab.

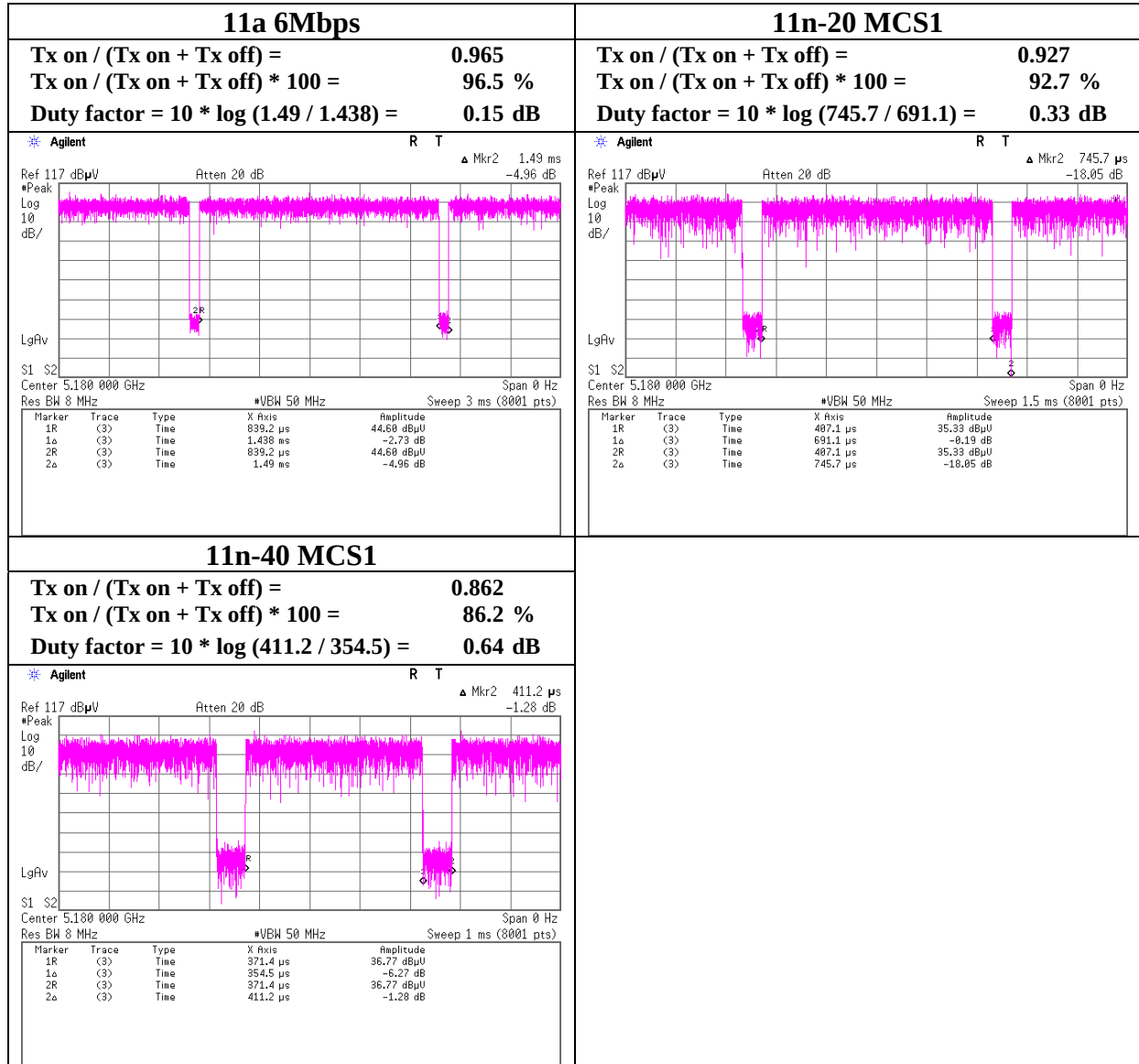
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Burst rate confirmation

Test place Ise EMC Lab. No.11 Measurement Room
Report No. 10812026H
Date 06/29/2015
Temperature/ Humidity 23deg. C / 49% RH
Engineer Shinichi Miyazono
Mode 11a / 11n-20 / 11n-40 Tx



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4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Band Edge confirmation

Test place

Report No.

Date

Temperature/ Humidity

Engineer

Mode

Ise EMC Lab. No.11 Measurement Room

10812026H

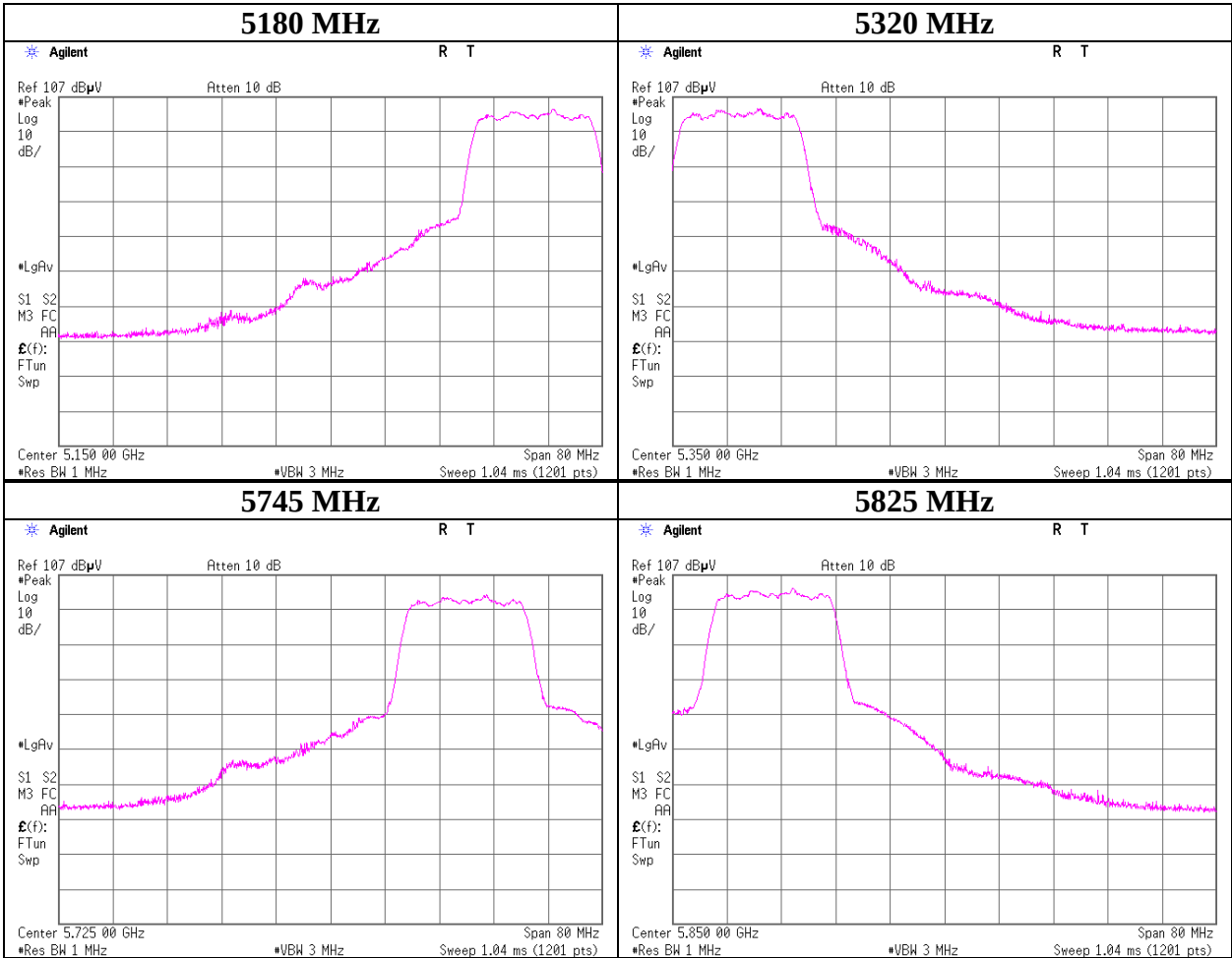
06/29/2015

23deg. C / 49% RH

Shinichi Miyazono

11ac-20 Tx

11ac-20 Peak detect

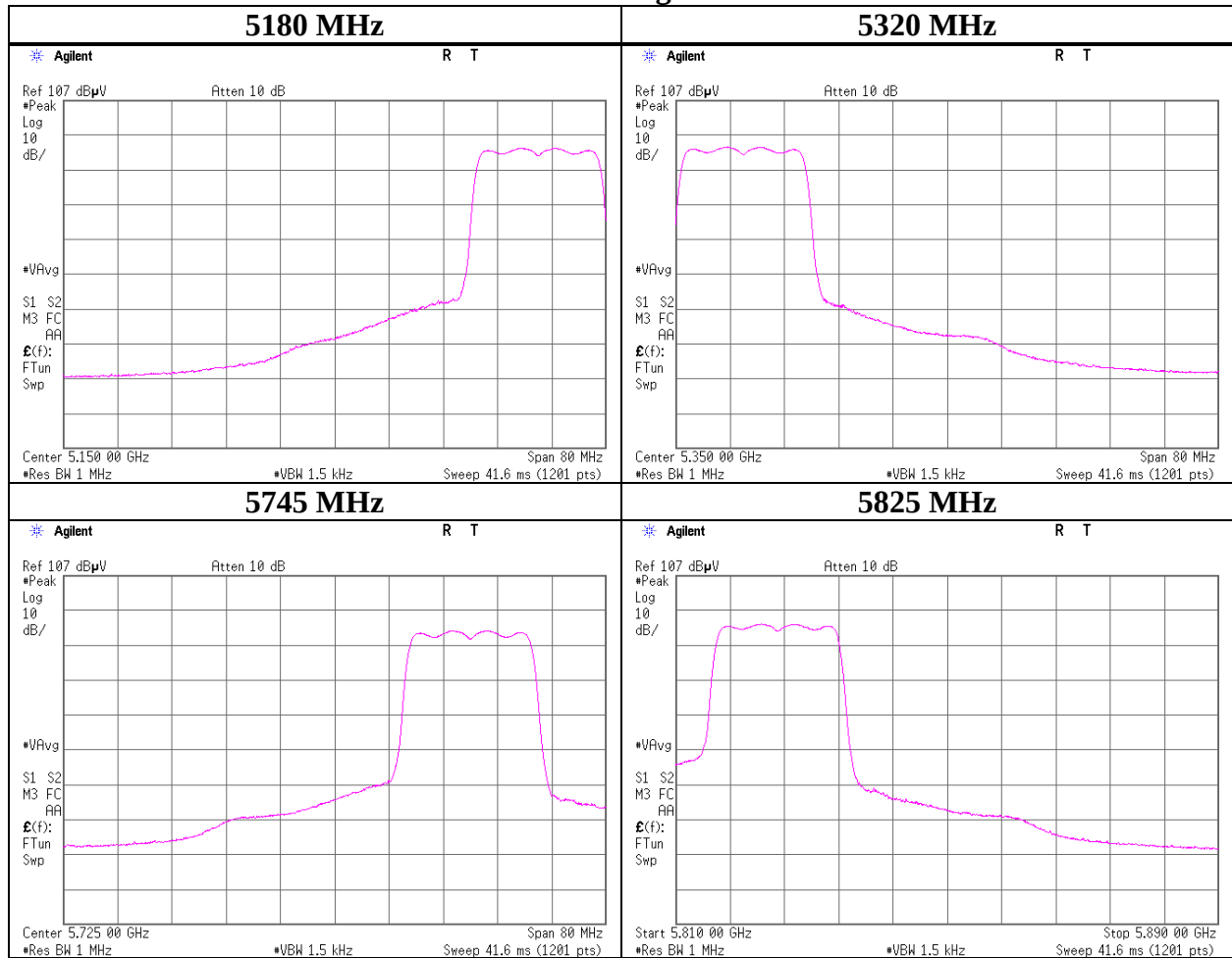


* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

Band Edge confirmation

Test place : Ise EMC Lab. No.11 Measurement Room
Report No. : 10812026H
Date : 06/29/2015
Temperature/ Humidity : 23deg. C / 49% RH
Engineer : Shinichi Miyazono
Mode : 11ac-20 Tx

11ac-20 Average detect



* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

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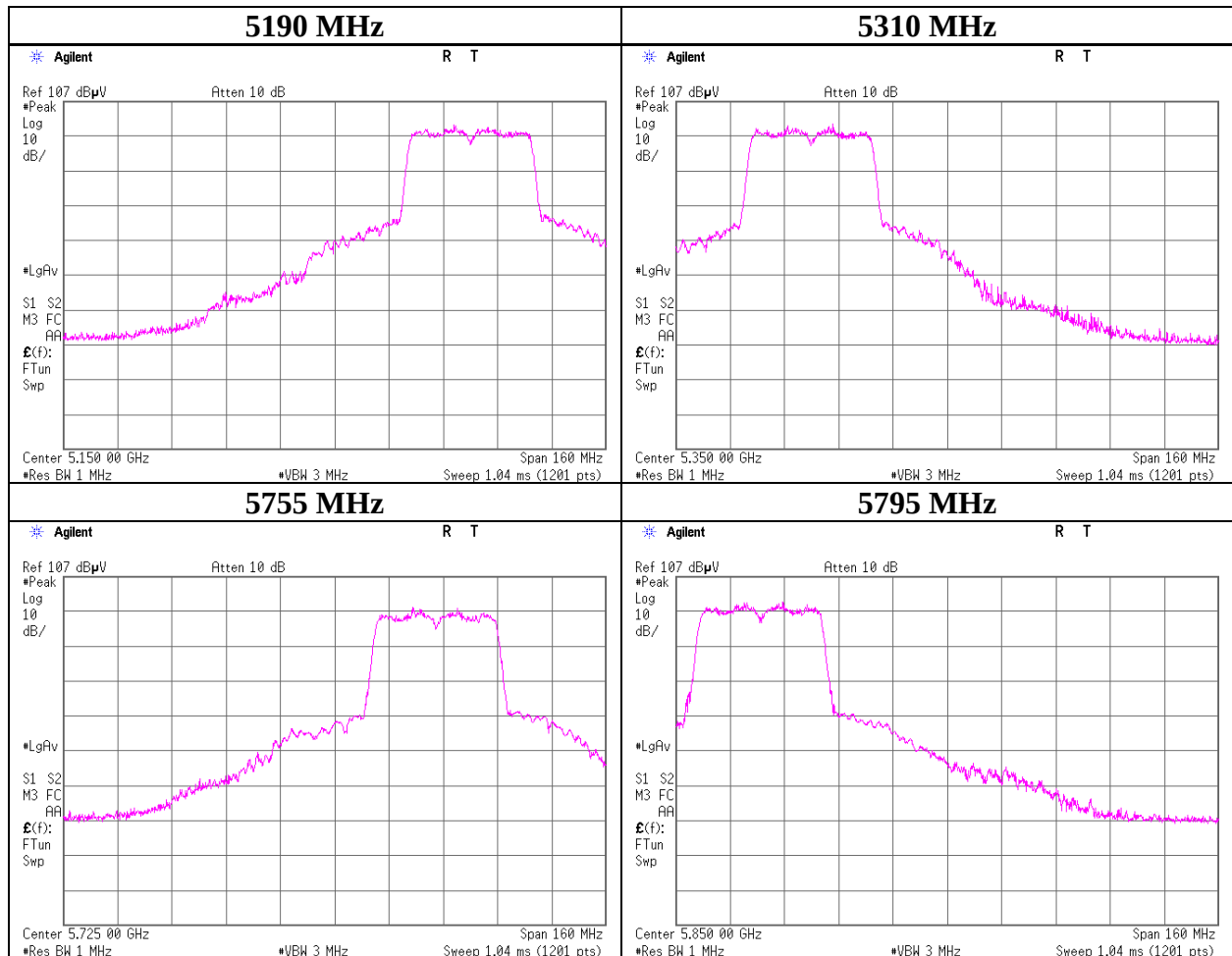
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Band Edge confirmation

Test place	Ise EMC Lab. No.11 Measurement Room
Report No.	10812026H
Date	06/29/2015
Temperature/ Humidity	23deg. C / 49% RH
Engineer	Shinichi Miyazono
Mode	11ac-40 Tx

11ac-40 Peak detect



* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

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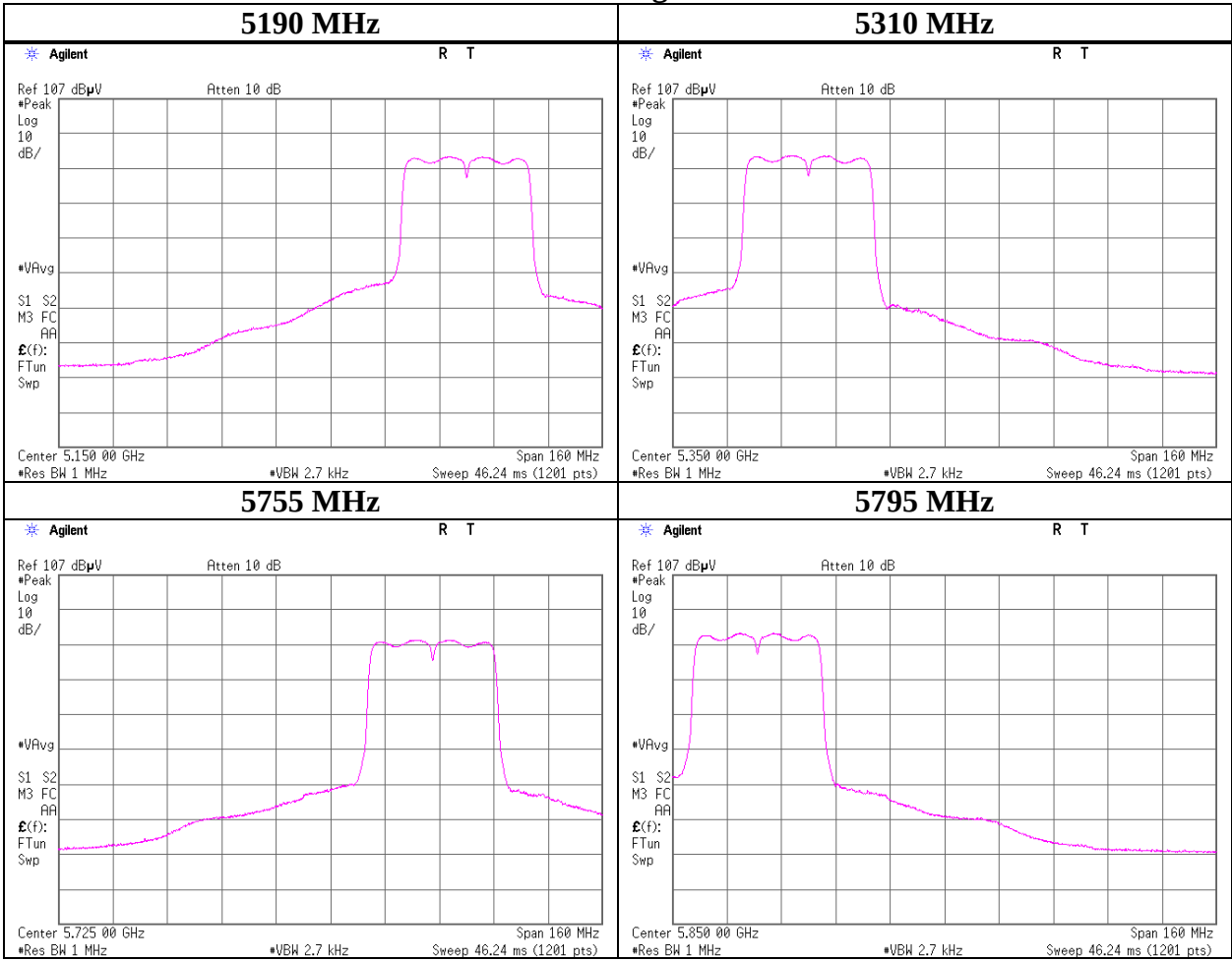
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Band Edge confirmation

Test place Ise EMC Lab. No.11 Measurement Room
Report No. 10812026H
Date 06/29/2015
Temperature/ Humidity 23deg. C / 49% RH
Engineer Shinichi Miyazono
Mode 11ac-40 Tx

11ac-40 Average detect

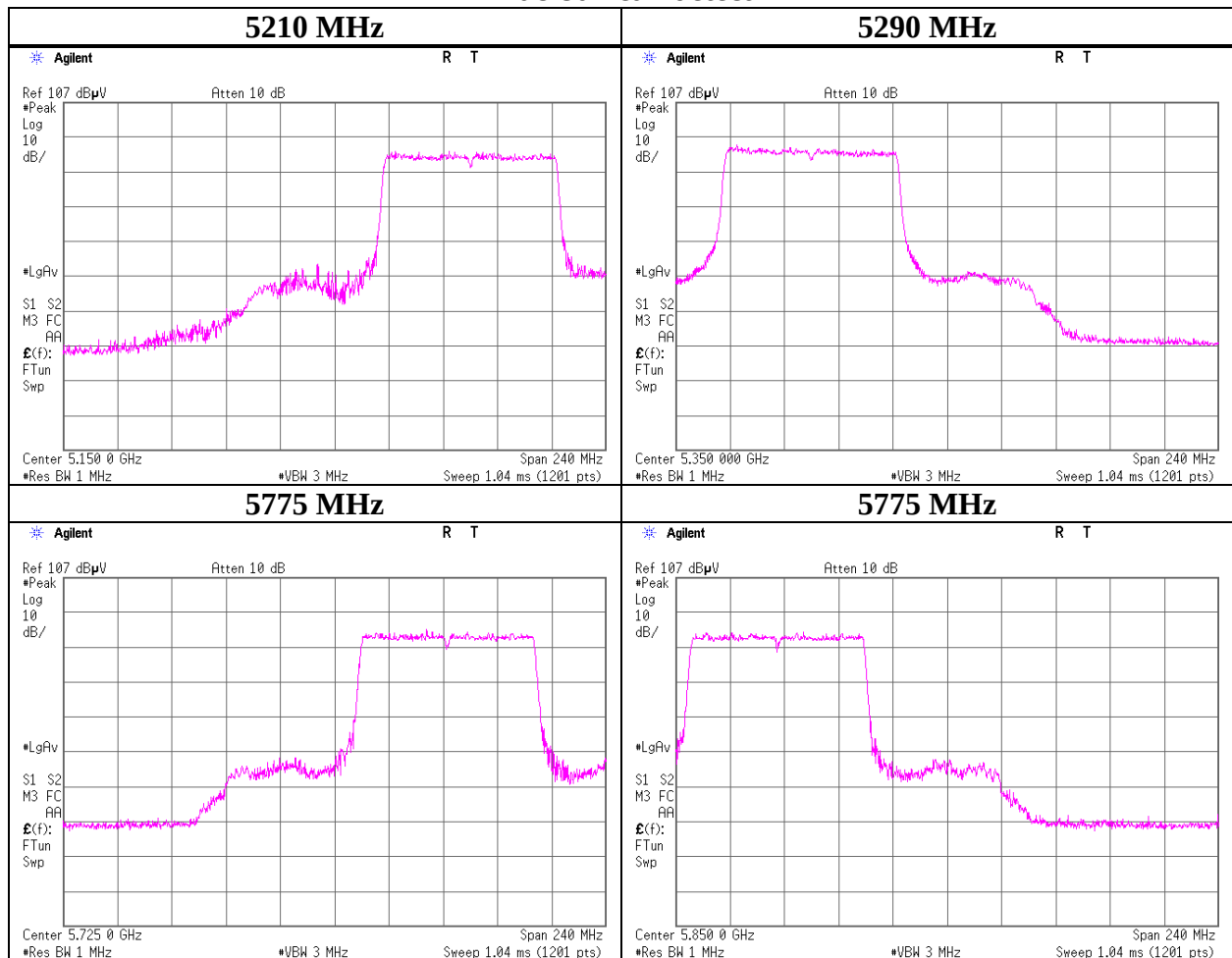


* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

Band Edge confirmation

Test place : Ise EMC Lab. No.11 Measurement Room
Report No. : 10812026H
Date : 06/29/2015
Temperature/ Humidity : 23deg. C / 49% RH
Engineer : Shinichi Miyazono
Mode : 11ac-80 Tx

11ac-80 Peak detect



* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

Band Edge confirmation

Test place

Report No.

Date

Temperature/ Humidity

Engineer

Mode

Ise EMC Lab. No.11 Measurement Room

10812026H

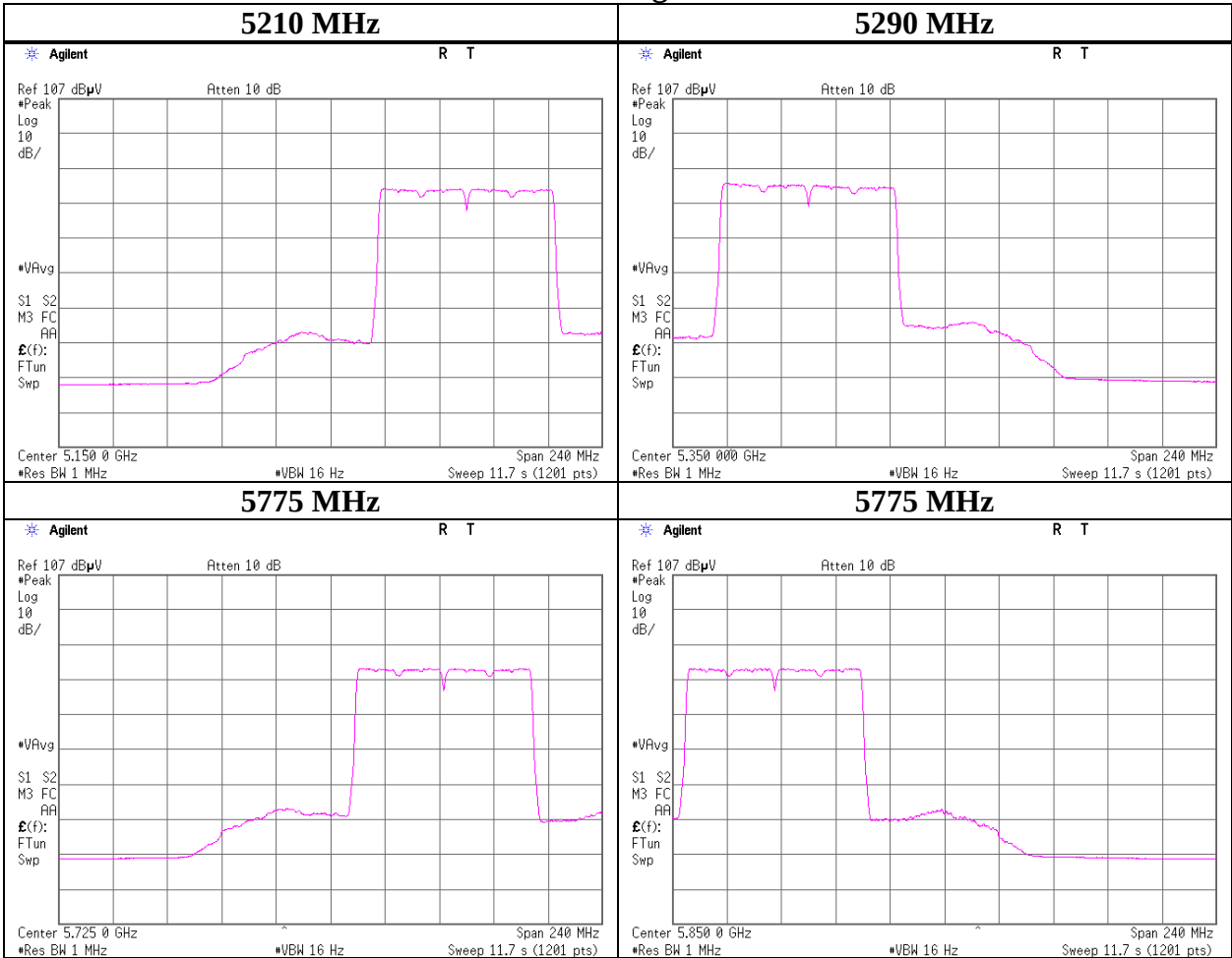
06/29/2015

23deg. C / 49% RH

Shinichi Miyazono

11ac-80 Tx

11ac-80 Average detect

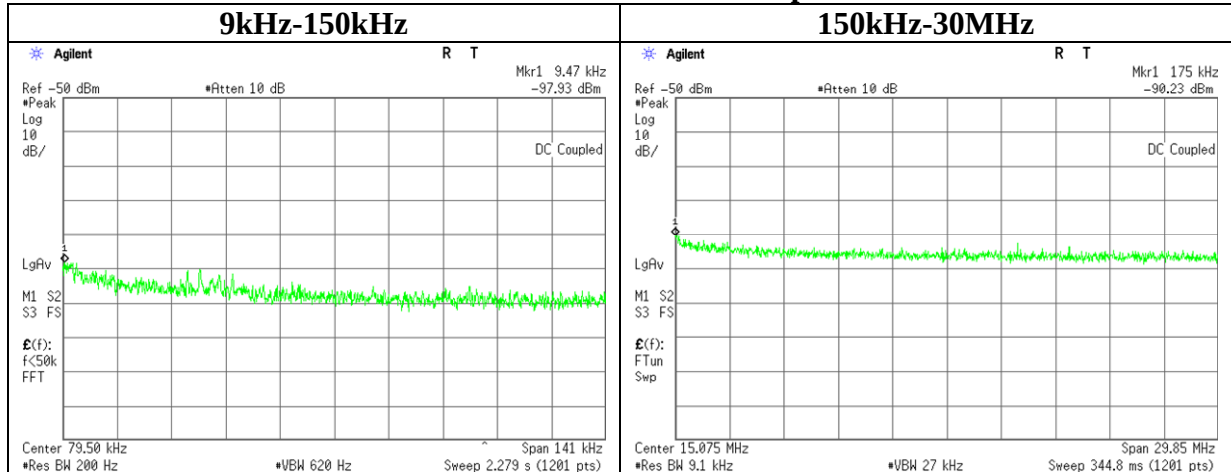


* Final result of band edge was measured as Radiated Spurious Emission. Refer to Radiated Spurious Emission's pages.

Conducted Spurious Emission

Test place : Ise EMC Lab. No.11 Measurement Room
Report No. : 10812026H
Date : 06/29/2015
Temperature/ Humidity : 23deg. C / 49% RH
Engineer : Shinichi Miyazono
Mode : 11ac-40 Tx

11ac-40 Tx 5310MHz Antenna port 0



Frequency [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator [dB]	Antenna Gain [dBi]	N (Number of Output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
9.47	-97.9	0.00	9.83	2.0	2	-83.1	300	6.0	-21.8	48.0	69.8	
175.00	-90.2	0.00	9.82	2.0	2	-75.4	300	6.0	-14.1	22.7	36.8	

$E = \text{EIRP} - 20 \log(D) + \text{Ground bounce} + 104.8 [\text{dBuV/m}]$

$\text{EIRP} = \text{Reading} + \text{Cable Loss} + \text{Attenuator} + \text{Antenna Gain} + 10 * \log(N)$

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

APPENDIX 2: Test instruments

EMI test equipment (1/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MAEC-03	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE	2015/02/19 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	1301	RE	2015/01/13 * 12
MJM-16	Measure	KOMELON	KMC-36	-	RE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE/CE	-
MSA-03	Spectrum Analyzer	Agilent	E4448A	MY44020357	RE	2015/05/18 * 12
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	258	RE	2015/05/18 * 12
MCC-167	Microwave Cable	Junkosha	MWX221	1404S374(1m) / 1405S074(5m)	RE	2015/05/21 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	MY39500779	RE	2015/03/19 * 12
MTW-03	Torque wrench	HUBER+SUHNER	74 Z-0-0-21	98142	RE	2015/01/16 * 36
MAEC-02	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	RE/CE	2015/07/01 * 12
MOS-22	Thermo-Hygrometer	Custom	CTH-201	0003	RE/CE	2015/01/13 * 12
MJM-14	Measure	KOMELON	KMC-36	-	RE/CE	-
MHA-06	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	254	RE	2015/02/05 * 12
MCC-166	Microwave Cable	Junkosha	MWX221	1303S120(1m) / 1311S167(5m)	RE	2014/09/24 * 12
MPA-10	Pre Amplifier	Agilent	8449B	3008A02142	RE	2015/01/28 * 12
MHF-16	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCA	7001	RE	2014/09/29 * 12
MCC-176	Microwave Cable	Junkosha	MMX221-00500DMSDMS	1502S303	RE	2015/03/27 * 12
MTW-02	Torque wrench	HUBER+SUHNER	74 Z-0-0-21	98190	RE	2015/01/16 * 36
MHA-02	Horn Antenna 18-26.5GHz	EMCO	3160-09	1265	RE	2015/02/05 * 12
MHA-29	Horn Antenna 26.5-40GHz	ETS LINDGREN	3160-10	00152399	RE	2014/09/02 * 12
MPA-22	Pre Amplifier	MITEQ, Inc	AMF-6F-2600400-33-8P / AMF-4F-2600400-33-8P	1871355 / 1871328	RE	2014/09/11 * 12
MCC-54	Microwave Cable	Suhner	SUCOFLEX101	2873(1m) / 2876(5m)	RE	2015/03/09 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	US44300523	CE	2014/11/12 * 12
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	100300	CE	2015/06/08 * 12
MLS-24	LISN(AMN)	Schwarzbeck	NSLK8127	8127-730	CE(EUT)	2014/07/10 * 12
MCC-13	Coaxial Cable	Fujikura	3D-2W(12m)/5D-2W(5m)/5D-2W(0.8m)/5D-2W(1m)	-	CE	2015/02/06 * 12
MAT-65	Attenuator(13dB)	JFW Industries, Inc.	50FP-013H2 N	-	CE	2015/01/29 * 12
MOS-19	Thermo-Hygrometer	Custom	CTH-201	0001	AT	2014/12/22 * 12
MPM-16	Power Meter	Agilent	8990B	MY51000271	AT	2015/04/01 * 12
MPSE-22	Power sensor	Agilent	N1923A	MY54070003	AT	2015/04/01 * 12
MPSE-23	Power sensor	Agilent	N1923A	MY54070004	AT	2015/04/01 * 12
MAT-20	Attenuator(10dB)(above 1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-110	-	AT	2015/01/08 * 12
MAT-22	Attenuator(10dB) 1-18GHz	Orient Microwave	BX10-0476-00	-	AT	2015/03/18 * 12

UL Japan, Inc.

Ise EMC Lab.

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

EMI test equipment (2/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MRENT-122	Spectrum Analyzer	KEYSIGHT	E4440A	MY46187096	AT	2015/06/01 * 12
MAT-24	Attenuator(10dB)(above 1GHz)	Agilent	8493C	71389	AT	2015/06/18 * 12
MAT-25	Attenuator(10dB)(above 1GHz)	Agilent	8493C	71642	AT	2015/06/18 * 12
MCC-144	Microwave Cable	Junkosha	MWX221	1207S407	AT	2014/08/08 * 12
MAT-10	Attenuator(10dB)	Weinschel Corp	2	BL1173	AT	2014/11/19 * 12
MCC-38	Coaxial Cable	UL Japan	-	-	AT	2014/12/02 * 12
MSA-16	Spectrum Analyzer	Agilent	E4440A	MY46186390	AT	2015/02/16 * 12

The expiration date of the calibration is the end of the expired month.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

Test Item: CE: Conducted Emission

RE: Radiated Emission

AT: Antenna Terminal Conducted test

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