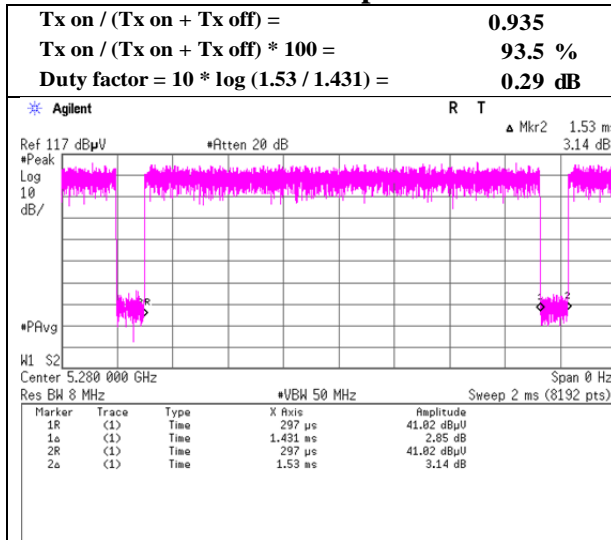


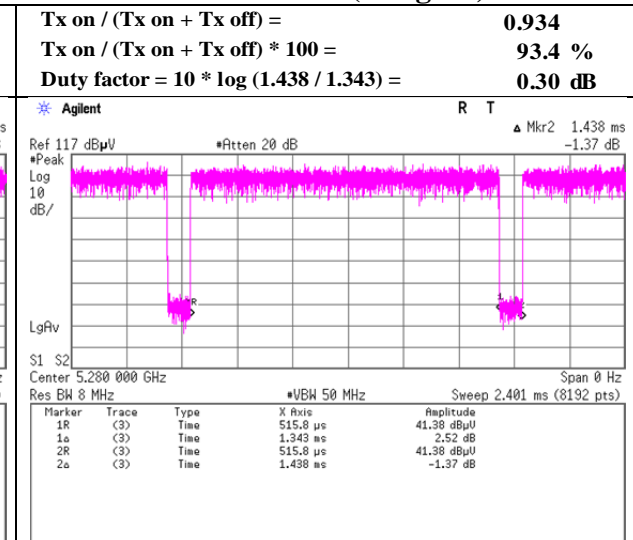
### Burst rate confirmation

Test place	Ise EMC Lab. No.7 Shielded Room
Report No.	11500824H
Date	November 25, 2016
Temperature / Humidity	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka
Mode	Tx

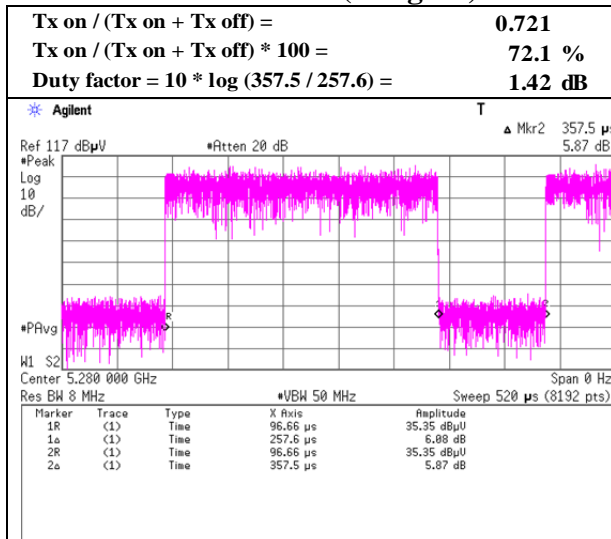
#### 11a 6Mbps



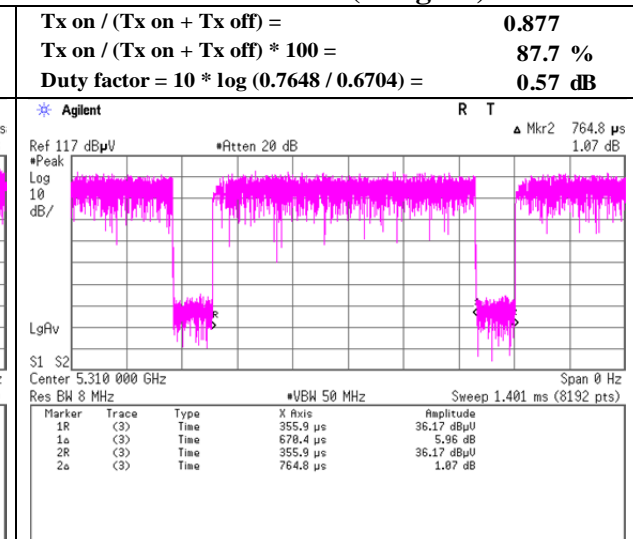
#### 11n-20 MCS0(Long GI)



#### 11n-20 MCS4(Long GI)



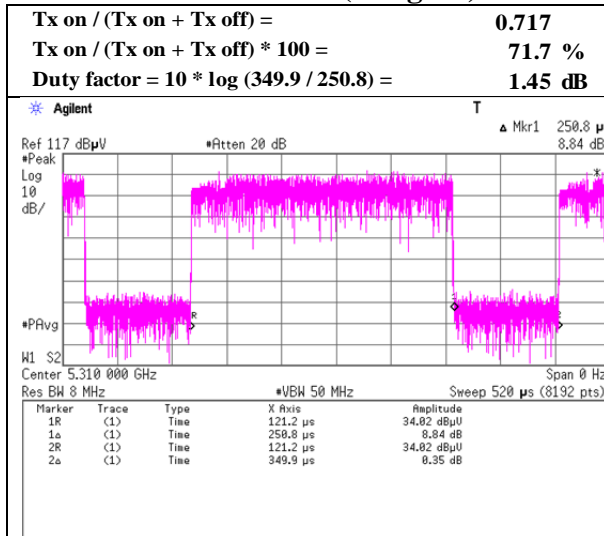
#### 11n-40 MCS0(Long GI)



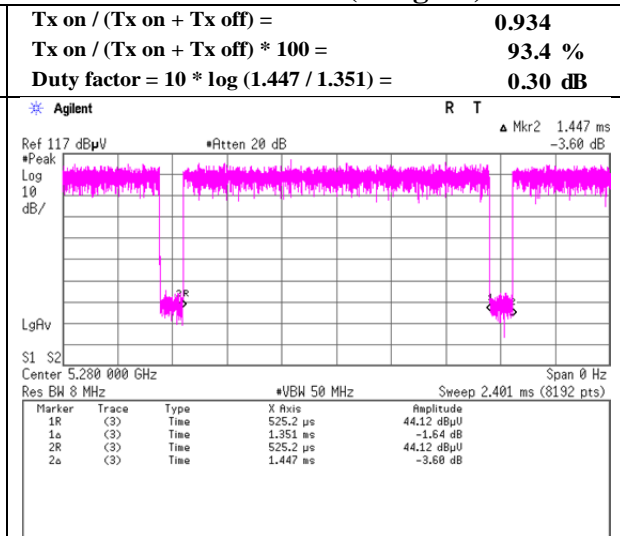
### Burst rate confirmation

Test place	Ise EMC Lab. No.7 Shielded Room
Report No.	11500824H
Date	November 25, 2016
Temperature / Humidity	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka
Mode	Tx

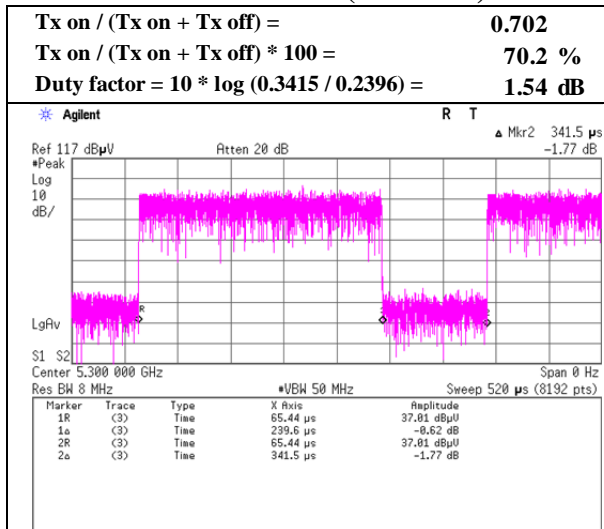
#### 11n-40 MCS2(Long GI)



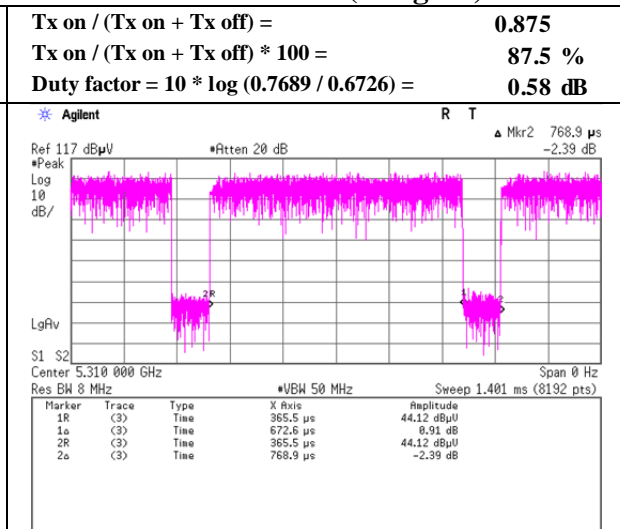
#### 11ac-20 MCS0(Long GI)



#### 11ac-20 MCS4(Short GI)



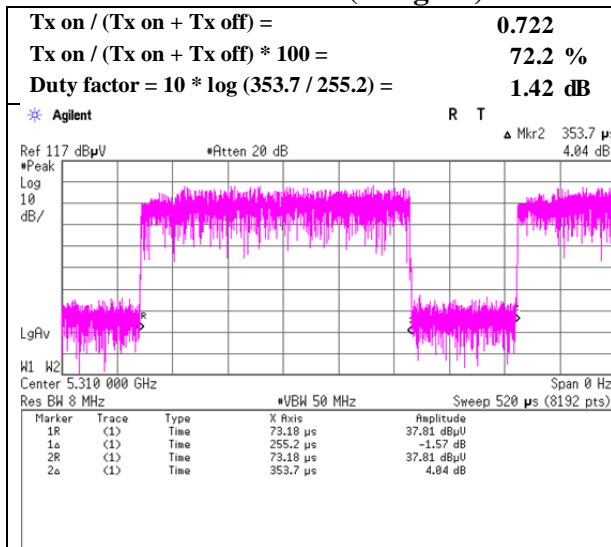
#### 11ac-40 MCS0(Long GI)



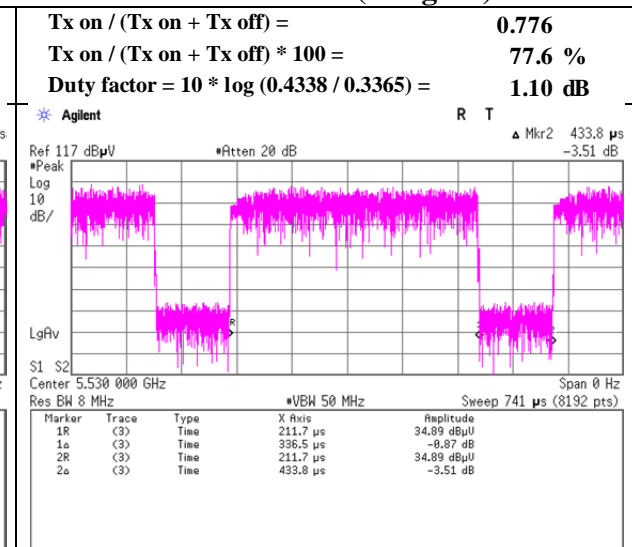
### Burst rate confirmation

Test place	Ise EMC Lab. No.7 Shielded Room
Report No.	11500824H
Date	November 25, 2016
Temperature / Humidity	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka
Mode	Tx

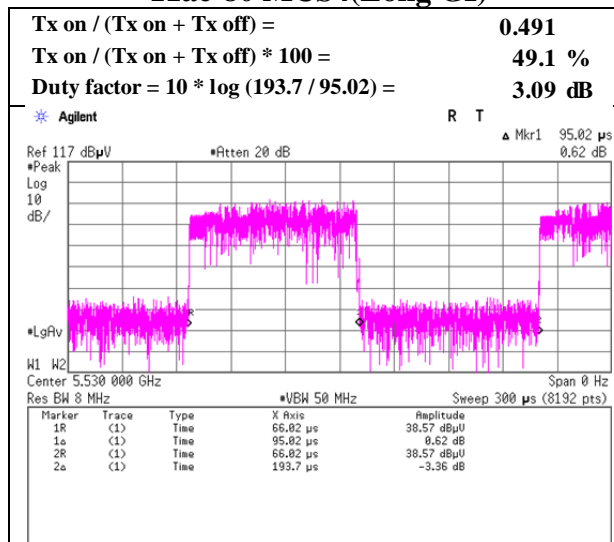
#### 11ac-40 MCS2(Long GI)



#### 11ac-80 MCS0(Long GI)



#### 11ac-80 MCS4(Long GI)



## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11a	

**11a**

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5280	-11.51	1.60	10.13	0.29	0.3	0.00	0.51	11.00	10.49	0.81	17.00	16.19
5300	-11.69	1.61	10.13	0.29	0.3	0.00	0.34	11.00	10.66	0.64	17.00	16.36
5320	-11.75	1.61	10.13	0.29	0.3	0.00	0.28	11.00	10.72	0.58	17.00	16.42
5500	-12.22	1.64	10.14	0.29	0.3	0.00	-0.15	11.00	11.15	0.15	17.00	16.85
5580	-11.75	1.65	10.13	0.29	0.3	0.00	0.32	11.00	10.68	0.62	17.00	16.38
5700	-11.95	1.66	10.12	0.29	0.3	0.00	0.12	11.00	10.88	0.42	17.00	16.58
5720	-11.83	1.67	10.12	0.29	0.3	0.00	0.25	11.00	10.75	0.55	17.00	16.45
5745	-14.92	1.67	10.12	0.29	0.3	0.27	-2.57	30.00	32.57	-2.27	36.00	38.27
5785	-15.38	1.67	10.12	0.29	0.3	0.27	-3.03	30.00	33.03	-2.73	36.00	38.73
5825	-15.64	1.68	10.11	0.29	0.3	0.27	-3.30	30.00	33.30	-3.00	36.00	39.00

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

\*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

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## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11n-20	

**11n20**

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5280	-13.10	1.60	10.13	1.42	0.3	0.00	0.05	11.00	10.95	0.36	17.00	16.65
5300	-13.31	1.61	10.13	1.42	0.3	0.00	-0.15	11.00	11.15	0.15	17.00	16.85
5320	-13.07	1.61	10.13	1.42	0.3	0.00	0.09	11.00	10.91	0.39	17.00	16.61
5500	-13.64	1.64	10.14	1.42	0.3	0.00	-0.44	11.00	11.44	-0.14	17.00	17.14
5580	-13.62	1.65	10.13	1.42	0.3	0.00	-0.42	11.00	11.42	-0.12	17.00	17.12
5700	-13.48	1.66	10.12	1.42	0.3	0.00	-0.28	11.00	11.28	0.02	17.00	16.98
5720	-13.76	1.67	10.12	1.42	0.3	0.00	-0.55	11.00	11.55	-0.25	17.00	17.25
5745	-16.68	1.67	10.12	1.42	0.3	0.27	-3.20	30.00	33.20	-2.90	36.00	38.90
5785	-17.07	1.67	10.12	1.42	0.3	0.27	-3.59	30.00	33.59	-3.29	36.00	39.29
5825	-17.25	1.68	10.11	1.42	0.3	0.27	-3.77	30.00	33.77	-3.47	36.00	39.47

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

\*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-20	

**11ac20**

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5280	-13.29	1.60	10.13	1.54	0.3	0.00	-0.02	11.00	11.02	0.28	17.00	16.72
5300	-13.27	1.61	10.13	1.54	0.3	0.00	0.01	11.00	10.99	0.31	17.00	16.69
5320	-13.12	1.61	10.13	1.54	0.3	0.00	0.16	11.00	10.84	0.46	17.00	16.54
5500	-13.61	1.64	10.14	1.54	0.3	0.00	-0.29	11.00	11.29	0.01	17.00	16.99
5580	-13.61	1.65	10.13	1.54	0.3	0.00	-0.29	11.00	11.29	0.01	17.00	16.99
5700	-13.77	1.66	10.12	1.54	0.3	0.00	-0.45	11.00	11.45	-0.15	17.00	17.15
5720	-13.55	1.67	10.12	1.54	0.3	0.00	-0.22	11.00	11.22	0.08	17.00	16.92
5745	-16.67	1.67	10.12	1.54	0.3	0.27	-3.07	30.00	33.07	-2.77	36.00	38.77
5785	-17.10	1.67	10.12	1.54	0.3	0.27	-3.50	30.00	33.50	-3.20	36.00	39.20
5825	-17.06	1.68	10.11	1.54	0.3	0.27	-3.46	30.00	33.46	-3.16	36.00	39.16

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

\*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11n-40	

**11n40**

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5310	-16.61	1.60	10.13	1.45	0.3	0.00	-3.43	11.00	14.43	-3.13	17.00	20.13
5510	-16.91	1.65	10.14	1.45	0.3	0.00	-3.67	11.00	14.67	-3.37	17.00	20.37
5550	-16.94	1.65	10.13	1.45	0.3	0.00	-3.71	11.00	14.71	-3.41	17.00	20.41
5670	-16.82	1.66	10.13	1.45	0.3	0.00	-3.58	11.00	14.58	-3.28	17.00	20.28
5710	-17.20	1.66	10.12	1.45	0.3	0.00	-3.97	11.00	14.97	-3.67	17.00	20.67
5755	-19.83	1.67	10.12	1.45	0.3	0.27	-6.32	30.00	36.32	-6.02	36.00	42.02
5795	-20.51	1.67	10.12	1.45	0.3	0.27	-7.00	30.00	37.00	-6.70	36.00	42.70

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 * \log(\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

\*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

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## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-40	

**11ac40**

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm] /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm] /MHz]	Limit [dBm] /MHz]	Margin [dB]	Result [dBm] /MHz]	Limit [dBm] /MHz]	Margin [dB]
5310	-16.58	1.60	10.13	1.42	0.3	0.00	-3.43	11.00	14.43	-3.13	17.00	20.13
5510	-17.13	1.65	10.14	1.42	0.3	0.00	-3.92	11.00	14.92	-3.62	17.00	20.62
5550	-16.77	1.65	10.13	1.42	0.3	0.00	-3.57	11.00	14.57	-3.27	17.00	20.27
5670	-17.00	1.66	10.13	1.42	0.3	0.00	-3.79	11.00	14.79	-3.49	17.00	20.49
5710	-16.91	1.66	10.12	1.42	0.3	0.00	-3.71	11.00	14.71	-3.41	17.00	20.41
5755	-20.17	1.67	10.12	1.42	0.3	0.27	-6.69	30.00	36.69	-6.39	36.00	42.39
5795	-20.18	1.67	10.12	1.42	0.3	0.27	-6.70	30.00	36.70	-6.40	36.00	42.40

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 * \log$  (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

\*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

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## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-80	

**11ac80**

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Duty Factor [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted)			PSD (e.i.r.p.)		
							Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5530	-21.62	1.61	10.13	3.09	0.3	0.00	-6.79	11.00	17.79	-6.49	17.00	23.49
5690	-21.27	1.65	10.13	3.09	0.3	0.00	-6.40	11.00	17.40	-6.10	17.00	23.10
5775	-24.13	1.67	10.12	3.09	0.3	0.27	-8.98	30.00	38.98	-8.68	36.00	44.68

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

RBW Correction Factor =  $10 * \log (\text{Specified bandwidth} / \text{Measured bandwidth})$

PSD Result (Conducted) = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

\*Although the EUT has AP mode, client device limit which is more severe was applied to the test.

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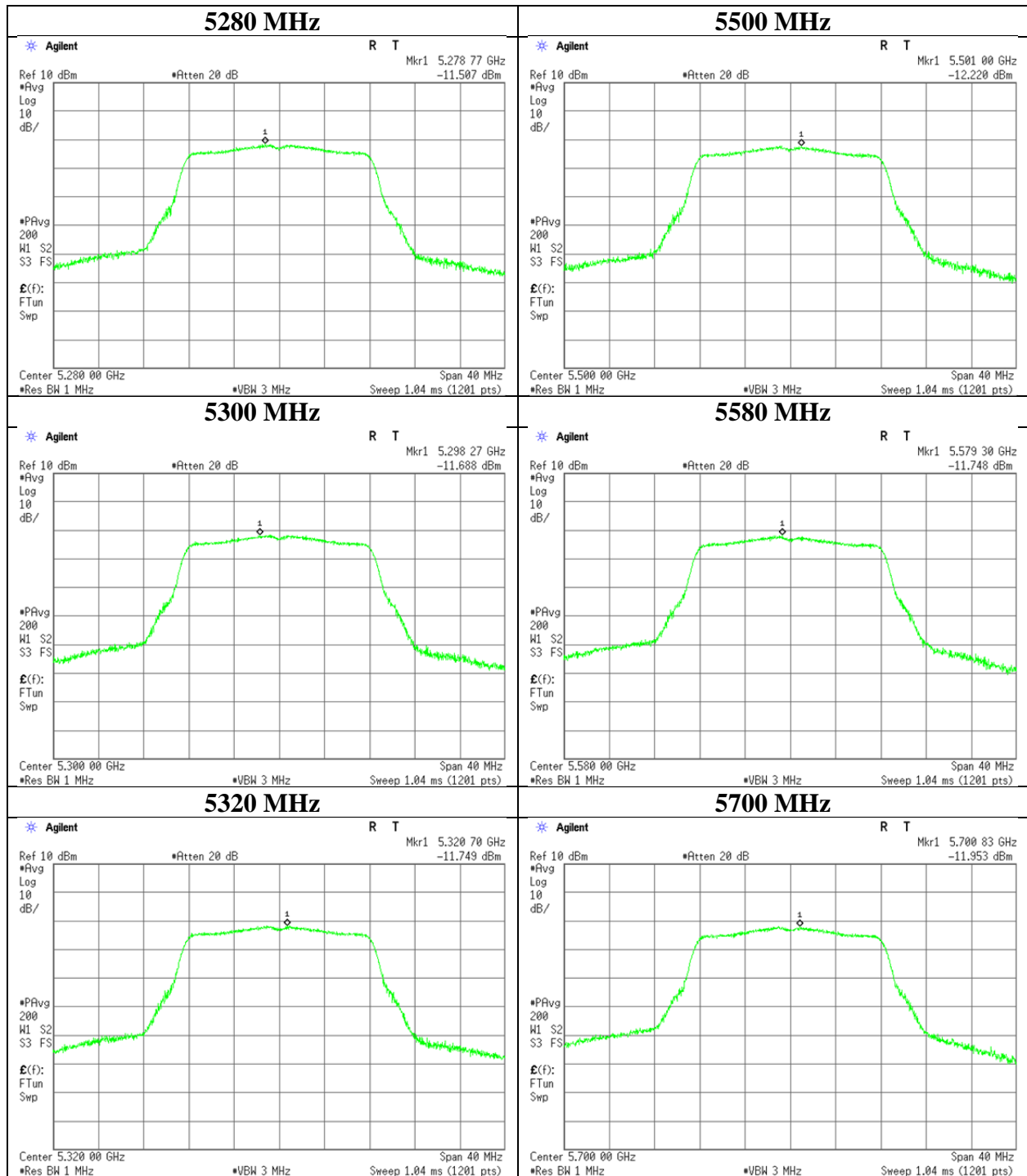
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place Report No. Date Temperature / Humidity Engineer Mode	Ise EMC Lab. No.3 Measurement Room 11500824H November 11, 2016 24deg. C / 39 % RH Ryota Yamanaka Tx 11a
	November 25, 2016 24 deg. C / 45 % RH Ryota Yamanaka

11a



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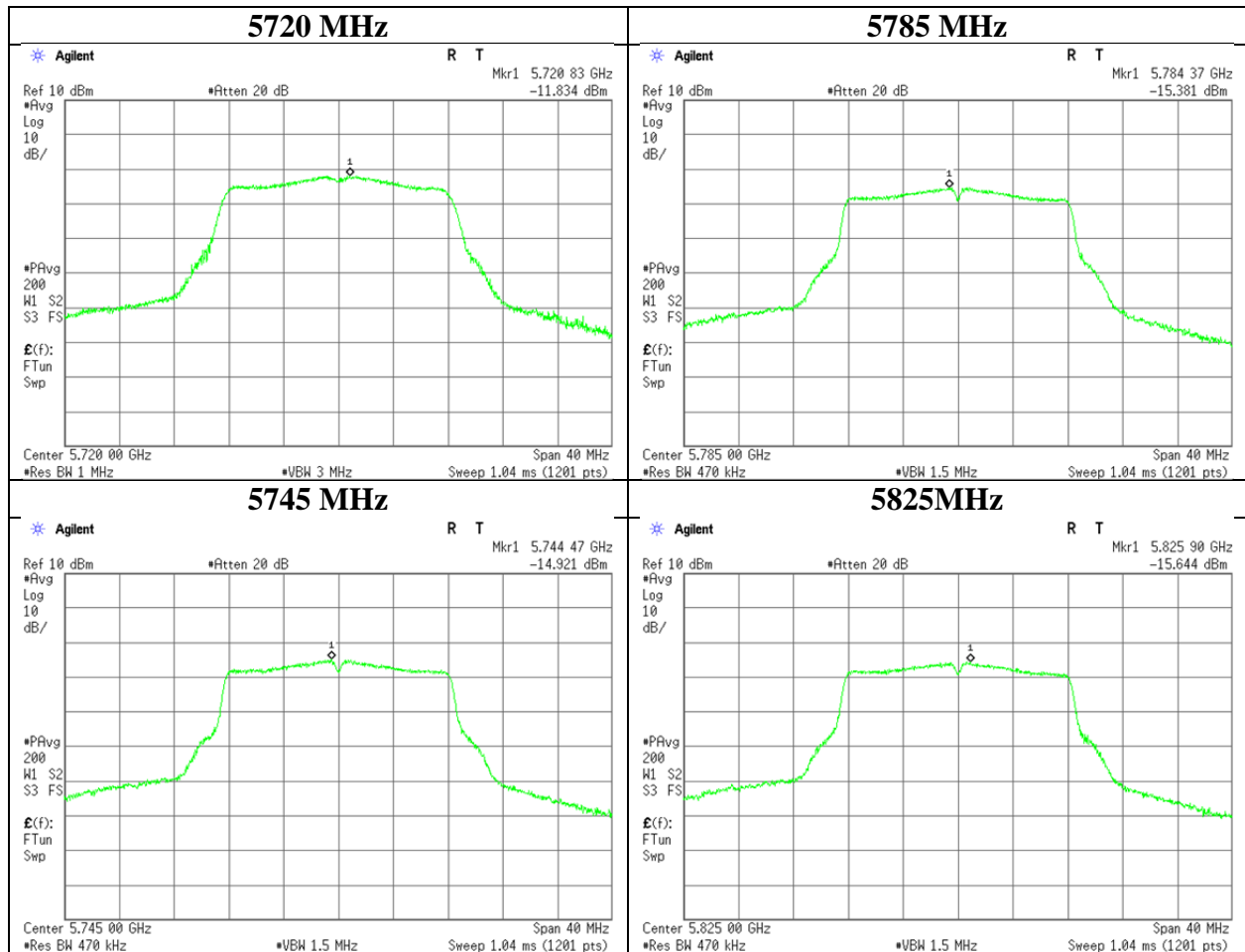
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11a	

### 11a



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**Ise EMC Lab.**

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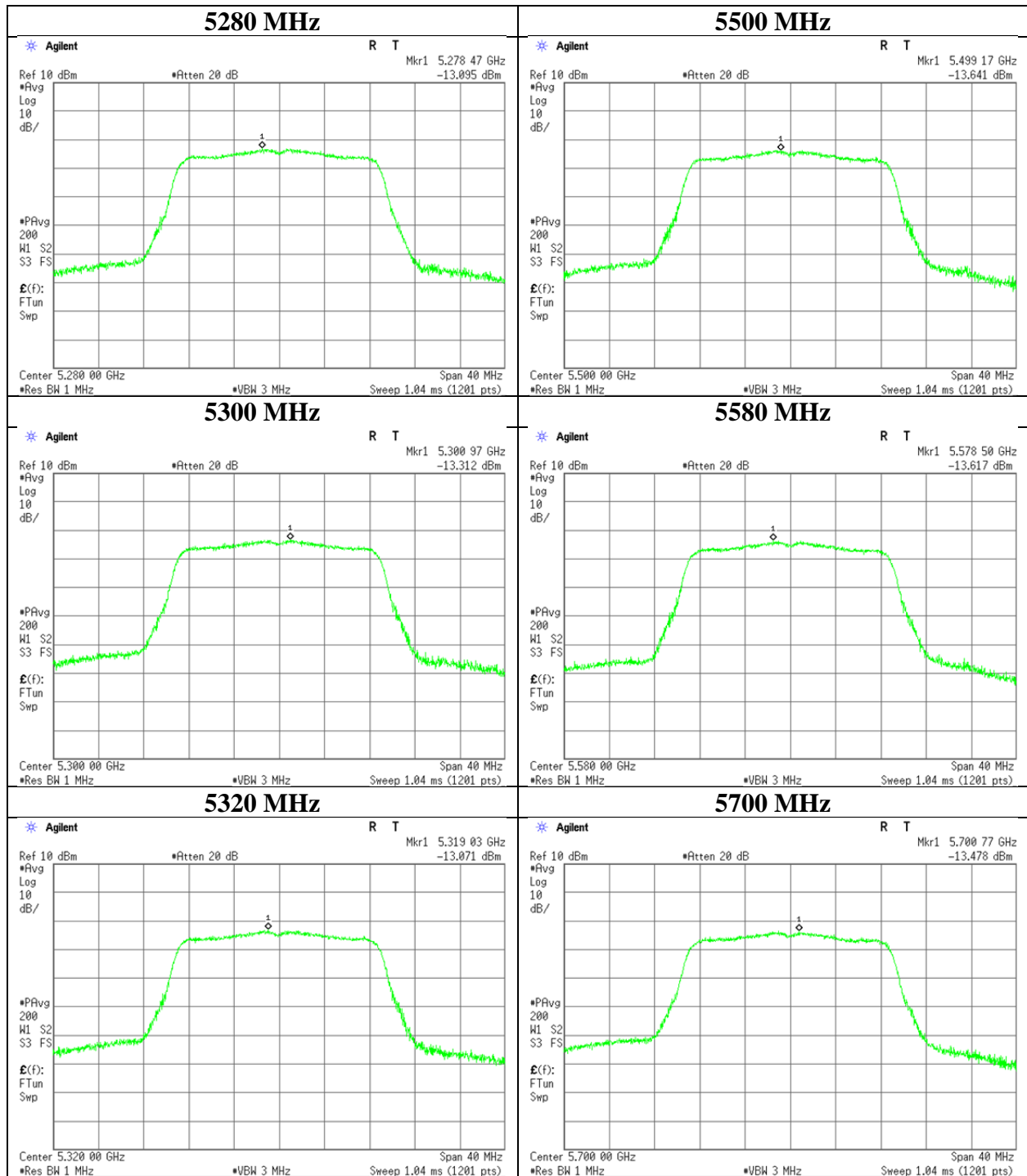
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11n-20	

### 11n-20



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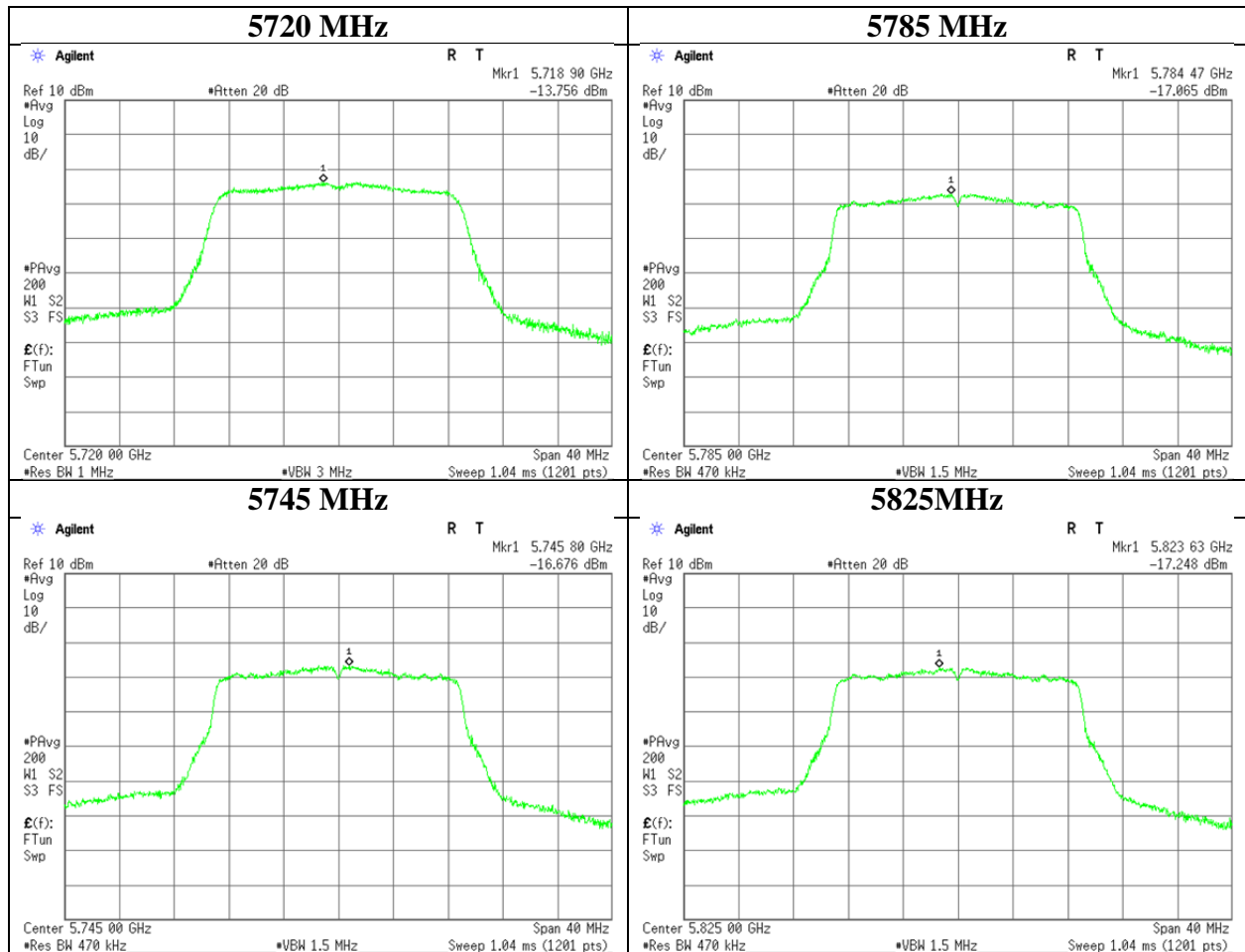
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11n-20	

### 11n-20



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**Ise EMC Lab.**

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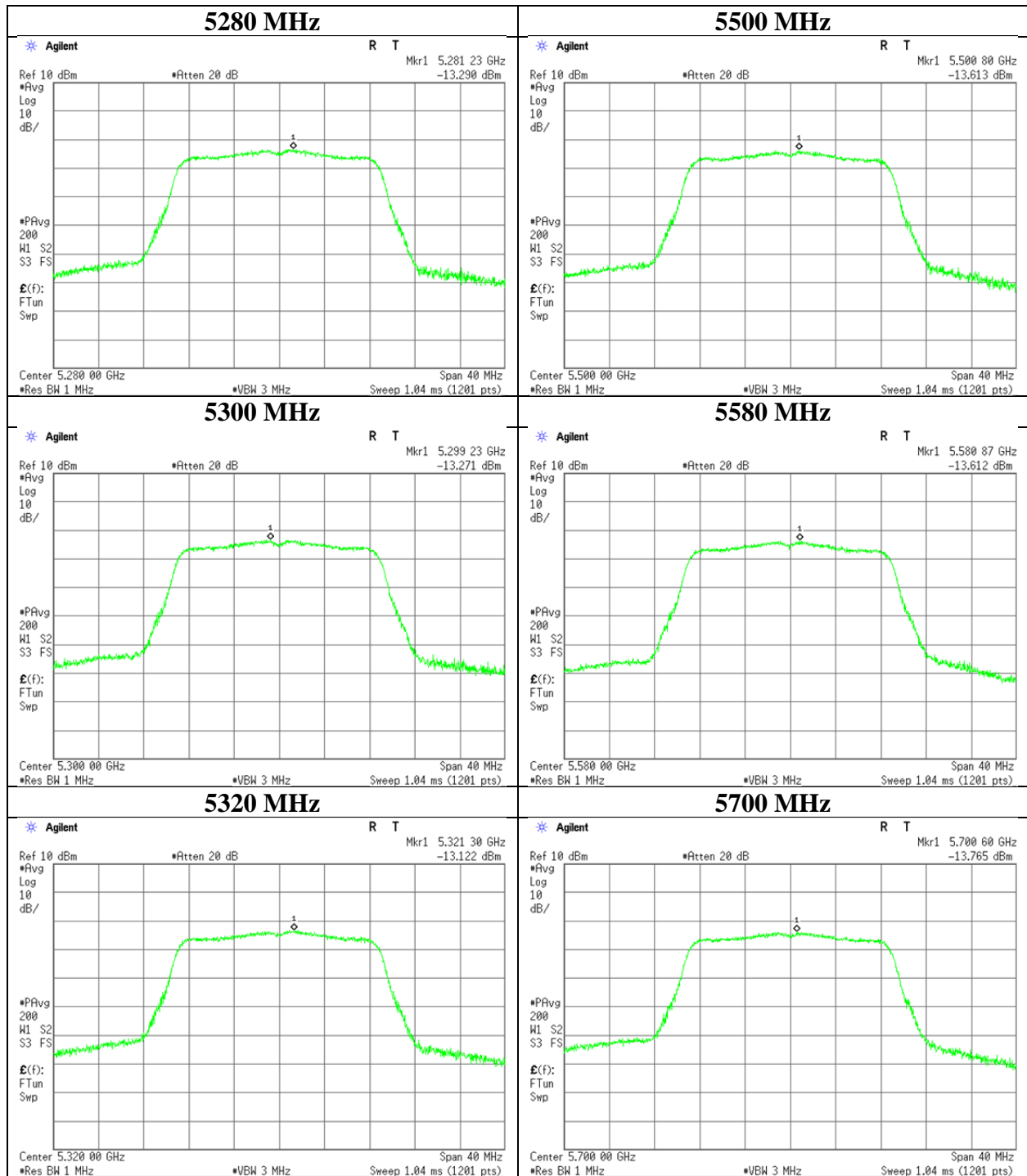
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-20	

### 11ac-20



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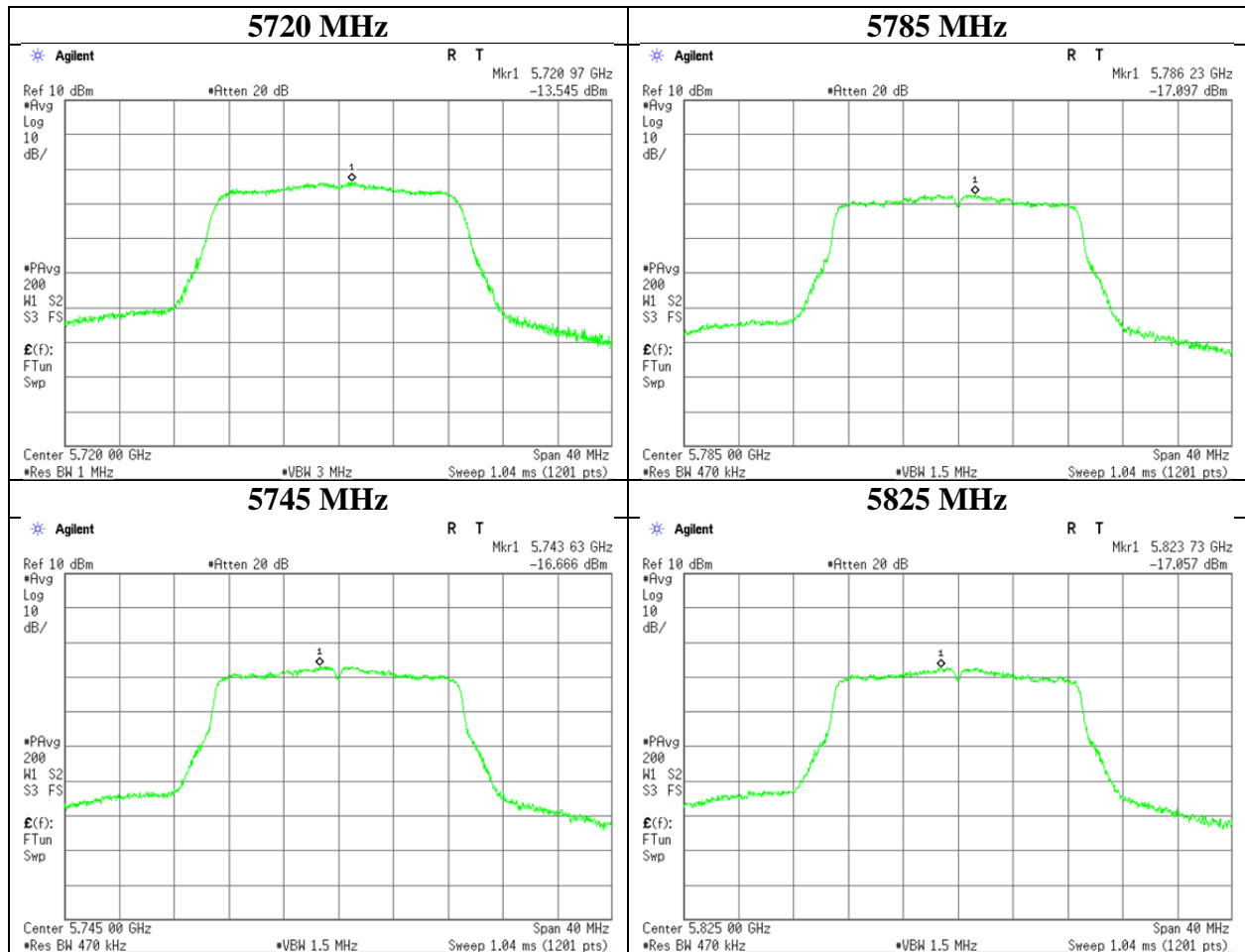
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-20	

### 11ac-20



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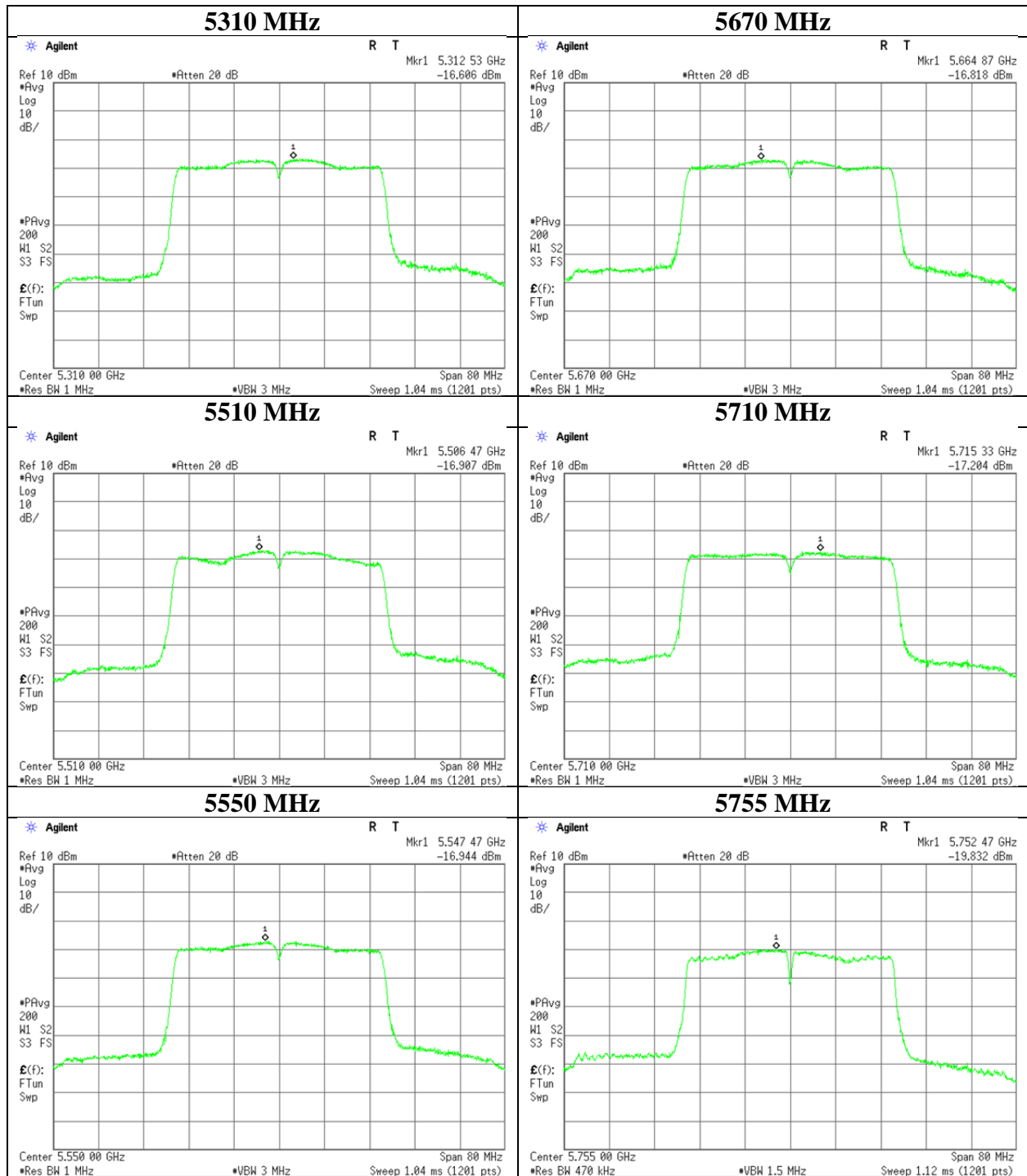
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11n-40	

### 11n-40



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**Ise EMC Lab.**

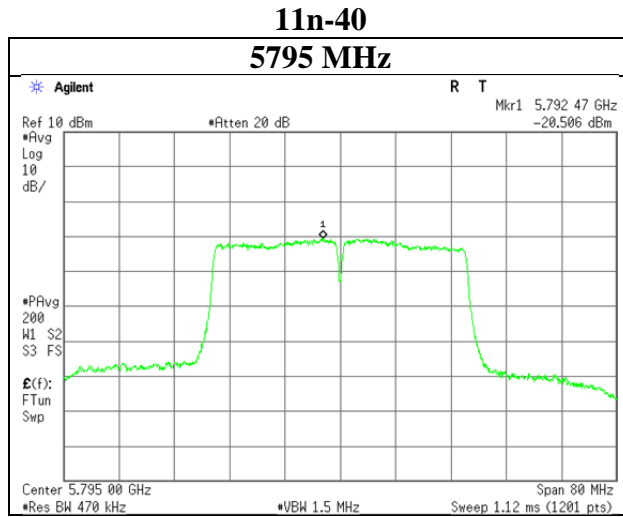
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

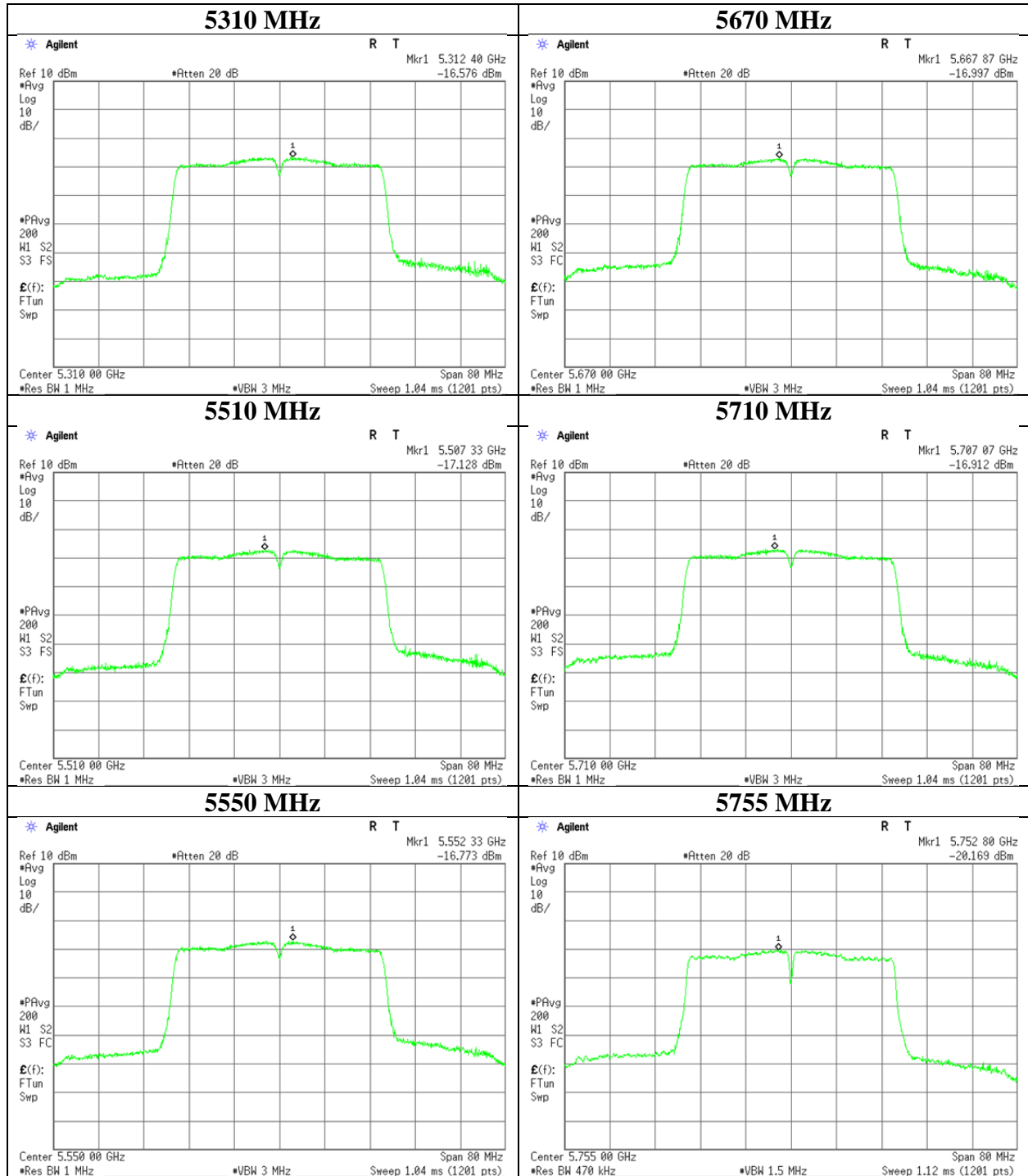
Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11n-40	



## Maximum Power Spectral Density

Test place Report No. Date Temperature / Humidity Engineer Mode	Ise EMC Lab. No.3 Measurement Room 11500824H November 11, 2016 24deg. C / 39 % RH Ryota Yamanaka Tx 11ac-40
	November 25, 2016 24 deg. C / 45 % RH Ryota Yamanaka

### 11ac-40



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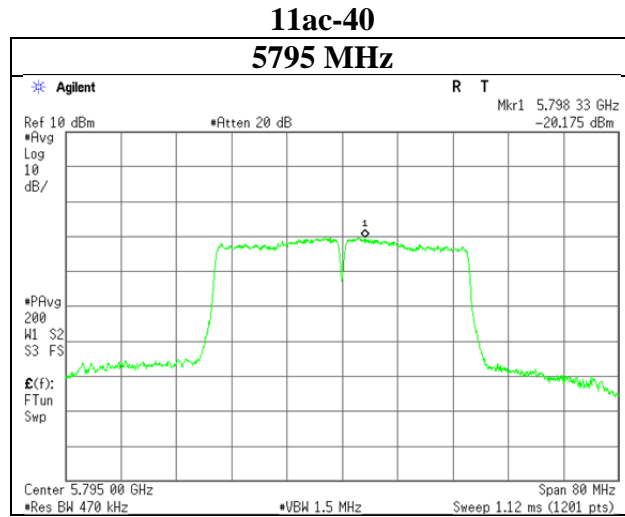
4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 JAPAN

Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-40	



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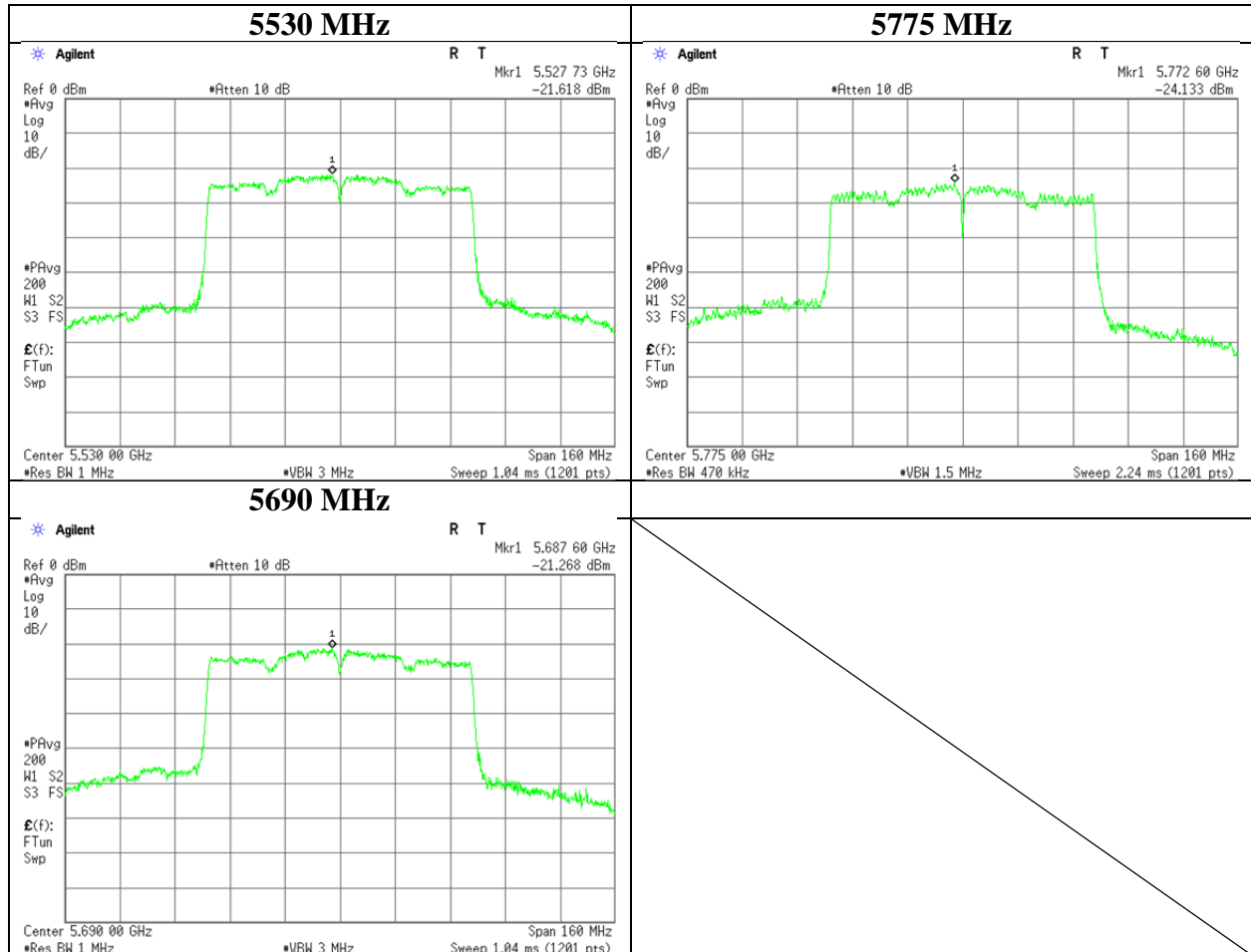
Telephone : +81 596 24 8999

Facsimile : +81 596 24 8124

## Maximum Power Spectral Density

Test place	Ise EMC Lab. No.3 Measurement Room	
Report No.	11500824H	
Date	November 11, 2016	November 25, 2016
Temperature / Humidity	24deg. C / 39 % RH	24 deg. C / 45 % RH
Engineer	Ryota Yamanaka	Ryota Yamanaka
Mode	Tx 11ac-80	

### 11ac-80



**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 Semi Anechoic Chamber  
Report No. : 11500824H  
Date : November 21, 2016      November 22, 2016      November 23, 2016  
Temperature / Humidity : 24deg. C / 46 % RH      24deg. C / 42 % RH      25deg. C / 39 % RH  
Engineer : Tomoki Matsui      Tomoki Matsui      Tomoki Matsui  
            (1 GHz-10 GHz)      (10 GHz-18 GHz)      (Above 18GHz and Below 1GHz)  
Mode : Tx 11ac-20 5300 MHz

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	216.000	QP	51.4	11.8	9.2	32.0	-	40.4	43.5	3.1	
Hori	250.012	QP	47.4	12.5	9.5	32.0	-	37.4	46.0	8.6	
Hori	300.000	QP	48.7	13.5	9.9	31.9	-	40.2	46.0	5.8	
Hori	500.000	QP	40.7	17.6	11.3	32.0	-	37.6	46.0	8.4	
Hori	550.000	QP	38.1	18.4	11.6	32.0	-	36.1	46.0	9.9	
Hori	891.000	QP	38.4	22.0	13.4	31.0	-	42.8	46.0	3.2	
Hori	10600.000	PK	41.4	39.1	-2.0	33.5	-	45.0	73.9	28.9	Floor noise
Hori	15900.000	PK	41.6	38.1	0.6	32.9	-	47.4	73.9	26.5	Floor noise
Hori	21200.000	PK	43.0	38.2	-1.0	33.0	-	47.2	73.9	26.7	Floor noise
Hori	10600.000	AV	32.8	39.1	-2.0	33.5	-	36.4	53.9	17.5	Floor noise
Hori	15900.000	AV	33.0	38.1	0.6	32.9	-	38.8	53.9	15.1	Floor noise
Hori	21200.000	AV	34.2	38.2	-1.0	33.0	-	38.4	53.9	15.5	Floor noise
Vert	53.408	QP	51.0	9.6	7.4	32.2	-	35.8	40.0	4.2	
Vert	86.600	QP	47.4	7.9	7.9	32.2	-	31.0	40.0	9.0	
Vert	170.320	QP	42.6	16.0	8.8	32.1	-	35.3	43.5	8.2	
Vert	216.000	QP	48.2	11.8	9.2	32.0	-	37.2	43.5	6.3	
Vert	300.000	QP	47.8	13.5	9.9	31.9	-	39.3	46.0	6.7	
Vert	500.000	QP	38.5	17.6	11.3	32.0	-	35.4	46.0	10.6	
Vert	891.000	QP	33.4	22.0	13.4	31.0	-	37.8	46.0	8.2	
Vert	10600.000	PK	41.4	39.1	-2.0	33.5	-	45.0	73.9	28.9	Floor noise
Vert	15900.000	PK	41.6	38.1	0.6	32.9	-	47.4	73.9	26.5	Floor noise
Vert	21200.000	PK	43.0	38.2	-1.0	33.0	-	47.2	73.9	26.7	Floor noise
Vert	10600.000	AV	32.9	39.1	-2.0	33.5	-	36.5	53.9	17.4	Floor noise
Vert	15900.000	AV	32.9	38.1	0.6	32.9	-	38.7	53.9	15.2	Floor noise
Vert	21200.000	AV	34.2	38.2	-1.0	33.0	-	38.4	53.9	15.5	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

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

Distance factor:      1 GHz - 10 GHz      20log (4.5 m / 3.0 m) = 3.53 dB  
                                 10 GHz - 40 GHz      20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5320 MHz		

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	51.3	31.3	7.6	31.8	-	58.4	73.9	15.5	
Hori	10640.000	PK	41.3	39.2	-2.0	33.5	-	45.0	73.9	28.9	Floor noise
Hori	15960.000	PK	42.1	38.0	0.6	32.9	-	47.8	73.9	26.1	Floor noise
Hori	21280.000	PK	44.1	38.1	-1.0	33.0	-	48.2	73.9	25.7	Floor noise
Hori	5350.000	AV	36.4	31.3	7.6	31.8	1.5	45.0	53.9	8.9	*1)
Hori	10640.000	AV	32.8	39.2	-2.0	33.5	-	36.5	53.9	17.4	Floor noise
Hori	15960.000	AV	33.2	38.0	0.6	32.9	-	38.9	53.9	15.0	Floor noise
Hori	21280.000	AV	34.5	38.1	-1.0	33.0	-	38.6	53.9	15.3	Floor noise
Vert	5350.000	PK	49.6	31.3	7.6	31.8	-	56.7	73.9	17.2	
Vert	10640.000	PK	41.3	39.2	-2.0	33.5	-	45.0	73.9	28.9	Floor noise
Vert	15960.000	PK	42.1	38.0	0.6	32.9	-	47.8	73.9	26.1	Floor noise
Vert	21280.000	PK	44.1	38.1	-1.0	33.0	-	48.2	73.9	25.7	Floor noise
Vert	5350.000	AV	37.1	31.3	7.6	31.8	1.5	45.7	53.9	8.2	*1)
Vert	10640.000	AV	32.8	39.2	-2.0	33.5	-	36.5	53.9	17.4	Floor noise
Vert	15960.000	AV	33.2	38.0	0.6	32.9	-	38.9	53.9	15.0	Floor noise
Vert	21280.000	AV	34.5	38.1	-1.0	33.0	-	38.6	53.9	15.3	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

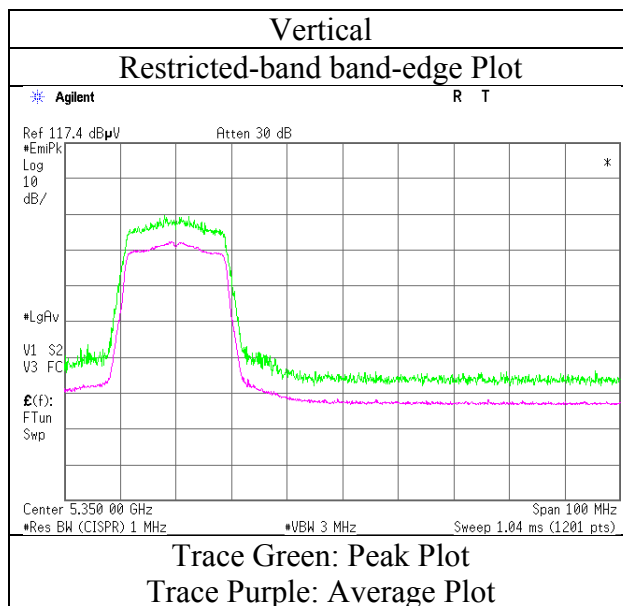
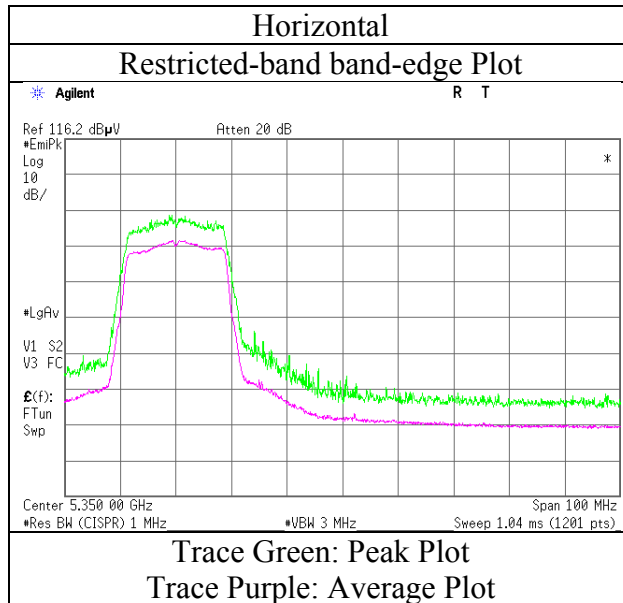
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor:     1 GHz - 10 GHz    20log (4.5 m / 3.0 m) = 3.53 dB  
                          10 GHz - 40 GHz   20log (1.0 m / 3.0 m) = -9.5 dB

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

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 21, 2016
Temperature / Humidity	24deg. C / 46 % RH
Engineer	Tomoki Matsui
Mode	Tx 11ac-20 5320 MHz



\* Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5500 MHz		

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	3666.708	PK	44.1	28.7	6.9	32.1	-	47.6	73.9	26.3	
Hori	5460.000	PK	46.6	31.2	7.7	31.8	-	53.7	73.9	20.2	
Hori	5470.000	PK	52.3	31.2	7.7	31.8	-	59.4	68.2	8.8	
Hori	11000.000	PK	41.7	40.0	-2.0	33.6	-	46.1	73.9	27.8	Floor noise
Hori	16500.000	PK	41.2	39.4	0.3	32.8	-	48.1	73.9	25.8	Floor noise
Hori	22000.000	PK	43.2	38.0	-0.8	32.7	-	47.7	73.9	26.2	Floor noise
Hori	3666.708	AV	37.8	28.7	6.9	32.1	1.5	42.8	53.9	11.1	
Hori	5460.000	AV	35.5	31.2	7.7	31.8	1.5	44.1	53.9	9.8	*1)
Hori	11000.000	AV	33.1	40.0	-2.0	33.6	-	37.5	53.9	16.4	Floor noise
Hori	16500.000	AV	33.3	39.4	0.3	32.8	-	40.2	53.9	13.7	Floor noise
Hori	22000.000	AV	34.2	38.0	-0.8	32.7	-	38.7	53.9	15.2	Floor noise
Vert	3666.708	PK	44.3	28.7	6.9	32.1	-	47.8	73.9	26.1	
Vert	5460.000	PK	45.3	31.2	7.7	31.8	-	52.4	73.9	21.5	
Vert	5470.000	PK	53.9	31.2	7.7	31.8	-	61.0	68.2	7.2	
Vert	11000.000	PK	41.7	40.0	-2.0	33.6	-	46.1	73.9	27.8	Floor noise
Vert	16500.000	PK	41.2	39.4	0.3	32.8	-	48.1	73.9	25.8	Floor noise
Vert	22000.000	PK	43.2	38.0	-0.8	32.7	-	47.7	73.9	26.2	Floor noise
Vert	3666.708	AV	38.5	28.7	6.9	32.1	1.5	43.5	53.9	10.4	
Vert	5460.000	AV	34.6	31.2	7.7	31.8	1.5	43.2	53.9	10.7	*1)
Vert	11000.000	AV	33.3	40.0	-2.0	33.6	-	37.7	53.9	16.2	Floor noise
Vert	16500.000	AV	33.2	39.4	0.3	32.8	-	40.1	53.9	13.8	Floor noise
Vert	22000.000	AV	34.2	38.0	-0.8	32.7	-	38.7	53.9	15.2	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

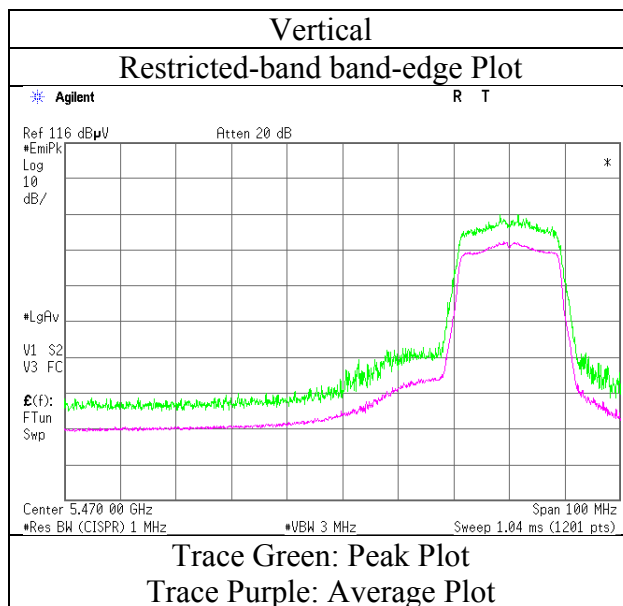
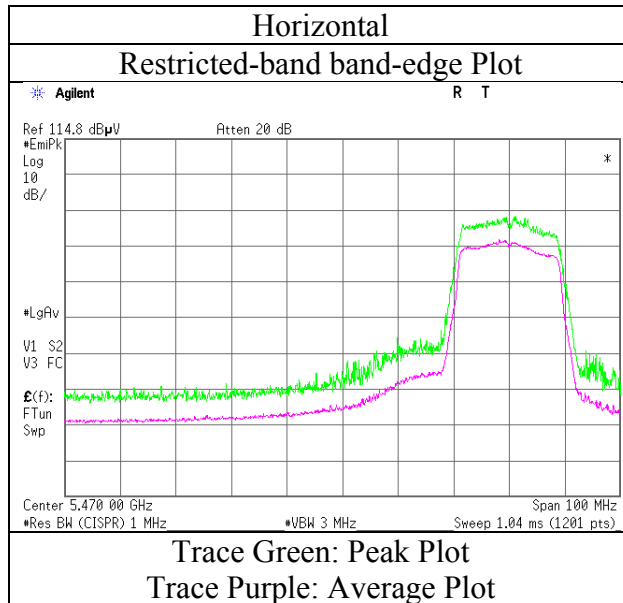
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor:     1 GHz - 10 GHz    20log (4.5 m / 3.0 m) = 3.53 dB  
                          10 GHz - 40 GHz   20log (1.0 m / 3.0 m) = -9.5 dB

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

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 21, 2016
Temperature / Humidity	24deg. C / 46 % RH
Engineer	Tomoki Matsui
Mode	Tx 11ac-20 5500 MHz



\* Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5580 MHz		

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	3720.052	PK	45.2	28.8	6.9	32.1	-	48.8	73.9	25.1	
Hori	11160.000	PK	41.5	39.7	-1.8	33.5	-	45.9	73.9	28.0	Floor noise
Hori	16740.000	PK	40.8	40.1	0.2	32.8	-	48.3	73.9	25.6	Floor noise
Hori	22320.000	PK	43.9	38.5	-0.7	32.5	-	49.2	73.9	24.7	Floor noise
Hori	3720.052	AV	39.0	28.8	6.9	32.1	1.5	44.1	53.9	9.8	
Hori	11160.000	AV	33.2	39.7	-1.8	33.5	-	37.6	53.9	16.3	Floor noise
Hori	16740.000	AV	33.1	40.1	0.2	32.8	-	40.6	53.9	13.3	Floor noise
Hori	22320.000	AV	34.9	38.5	-0.7	32.5	-	40.2	53.9	13.7	Floor noise
Vert	3720.052	PK	45.1	28.8	6.9	32.1	-	48.7	73.9	25.2	
Vert	11160.000	PK	41.5	39.7	-1.8	33.5	-	45.9	73.9	28.0	Floor noise
Vert	16740.000	PK	40.6	40.1	0.2	32.8	-	48.1	73.9	25.8	Floor noise
Vert	22320.000	PK	43.9	38.5	-0.7	32.5	-	49.2	73.9	24.7	Floor noise
Vert	3720.052	AV	39.1	28.8	6.9	32.1	1.5	44.2	53.9	9.7	
Vert	11160.000	AV	33.2	39.7	-1.8	33.5	-	37.6	53.9	16.3	Floor noise
Vert	16740.000	AV	33.0	40.1	0.2	32.8	-	40.5	53.9	13.4	Floor noise
Vert	22320.000	AV	34.9	38.5	-0.7	32.5	-	40.2	53.9	13.7	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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:    1 GHz - 10 GHz    20log (4.5 m / 3.0 m) = 3.53 dB  
                          10 GHz - 40 GHz    20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber  
Report No. : 11500824H  
Date : November 21, 2016      November 22, 2016      November 23, 2016  
Temperature / Humidity : 24deg. C / 46 % RH      24deg. C / 42 % RH      25deg. C / 39 % RH  
Engineer : Tomoki Matsui      Tomoki Matsui      Tomoki Matsui  
(1 GHz-10 GHz)      (10 GHz-18 GHz)      (Above 18GHz)  
Mode : Tx 11ac-20 5700 MHz

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	3800.047	PK	45.3	28.9	7.0	32.0	-	49.2	73.9	24.7	
Hori	5725.000	PK	53.8	31.4	7.8	31.8	-	61.2	68.2	7.0	
Hori	11400.000	PK	41.0	39.3	-1.6	33.4	-	45.3	73.9	28.6	Floor noise
Hori	17100.000	PK	42.9	41.4	0.0	32.8	-	51.5	73.9	22.4	Floor noise
Hori	22800.000	PK	43.0	39.4	-0.6	32.4	-	49.4	73.9	24.5	Floor noise
Hori	3800.047	AV	38.8	28.9	7.0	32.0	1.5	44.2	53.9	9.7	
Hori	11400.000	AV	32.6	39.3	-1.6	33.4	-	36.9	53.9	17.0	Floor noise
Hori	17100.000	AV	33.3	41.4	0.0	32.8	-	41.9	53.9	12.0	Floor noise
Hori	22800.000	AV	35.0	39.4	-0.6	32.4	-	41.4	53.9	12.5	Floor noise
Vert	3800.047	PK	45.3	28.9	7.0	32.0	-	49.2	73.9	24.7	
Vert	5725.000	PK	54.8	31.4	7.8	31.8	-	62.2	68.2	6.0	
Vert	11400.000	PK	41.0	39.3	-1.6	33.4	-	45.3	73.9	28.6	Floor noise
Vert	17100.000	PK	43.0	41.4	0.0	32.8	-	51.6	73.9	22.3	Floor noise
Vert	22800.000	PK	43.0	39.4	-0.6	32.4	-	49.4	73.9	24.5	Floor noise
Vert	3800.047	AV	39.2	28.9	7.0	32.0	1.5	44.6	53.9	9.3	
Vert	11400.000	AV	32.5	39.3	-1.6	33.4	-	36.8	53.9	17.1	Floor noise
Vert	17100.000	AV	33.3	41.4	0.0	32.8	-	41.9	53.9	12.0	Floor noise
Vert	22800.000	AV	35.0	39.4	-0.6	32.4	-	41.4	53.9	12.5	Floor noise

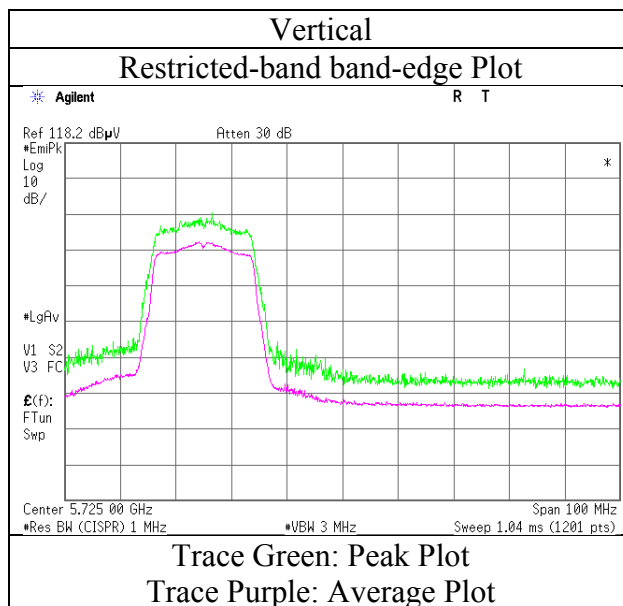
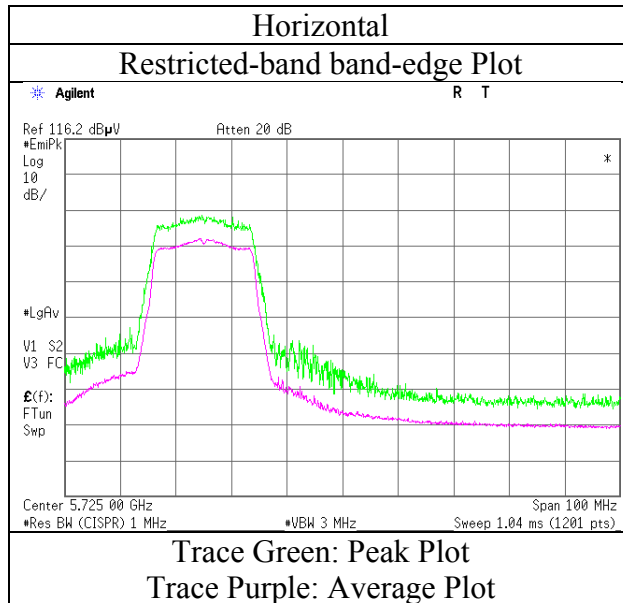
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor:      1 GHz - 10 GHz      20log(4.5 m / 3.0 m) = 3.53 dB  
                                 10 GHz - 40 GHz      20log(1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 21, 2016
Temperature / Humidity	24deg. C / 46 % RH
Engineer	Tomoki Matsui
Mode	Tx 11ac-20 5700 MHz



\* Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5720 MHz		

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	3813.362	PK	45.2	28.9	7.0	32.0	-	49.1	73.9	24.8	
Hori	11440.000	PK	41.4	39.2	-1.6	33.4	-	45.6	73.9	28.3	Floor noise
Hori	17160.000	PK	41.7	41.7	0.0	32.7	-	50.7	73.9	23.2	Floor noise
Hori	22880.000	PK	43.5	39.5	-0.5	32.4	-	50.1	73.9	23.8	Floor noise
Hori	3813.362	AV	38.9	28.9	7.0	32.0	1.5	44.3	53.9	9.6	
Hori	11440.000	AV	32.4	39.2	-1.6	33.4	-	36.6	53.9	17.3	Floor noise
Hori	17160.000	AV	33.6	41.7	0.0	32.7	-	42.6	53.9	11.3	Floor noise
Hori	22880.000	AV	34.5	39.5	-0.5	32.4	-	41.1	53.9	12.8	Floor noise
Vert	3813.362	PK	45.2	28.9	7.0	32.0	-	49.1	73.9	24.8	
Vert	11440.000	PK	41.4	39.2	-1.6	33.4	-	45.6	73.9	28.3	Floor noise
Vert	17160.000	PK	41.7	41.7	0.0	32.7	-	50.7	73.9	23.2	Floor noise
Vert	22880.000	PK	43.5	39.5	-0.5	32.4	-	50.1	73.9	23.8	Floor noise
Vert	3813.362	AV	39.3	28.9	7.0	32.0	1.5	44.7	53.9	9.2	
Vert	11440.000	AV	32.4	39.2	-1.6	33.4	-	36.6	53.9	17.3	Floor noise
Vert	17160.000	AV	33.6	41.7	0.0	32.7	-	42.6	53.9	11.3	Floor noise
Vert	22880.000	AV	34.3	39.5	-0.5	32.4	-	40.9	53.9	13.0	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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:      1 GHz - 10 GHz      20log (4.5 m / 3.0 m) = 3.53 dB  
                                 10 GHz - 40 GHz      20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5745 MHz		

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	3830.000	PK	45.4	28.9	7.0	32.0	-	49.3	73.9	24.6	
Hori	5650.000	PK	39.5	31.3	7.8	31.8	-	46.8	68.2	21.4	
Hori	5700.000	PK	45.1	31.4	7.8	31.8	-	52.5	105.2	52.7	
Hori	5720.000	PK	60.5	31.4	7.8	31.8	-	67.9	110.8	42.9	
Hori	5725.000	PK	63.6	31.4	7.8	31.8	-	71.0	122.2	51.2	
Hori	11490.000	PK	40.8	39.1	-1.6	33.4	-	44.9	73.9	29.0	Floor noise
Hori	17235.000	PK	41.7	42.2	0.2	32.7	-	51.4	73.9	22.5	Floor noise
Hori	22980.000	PK	42.8	39.7	-0.5	32.3	-	49.7	73.9	24.2	Floor noise
Hori	3830.000	AV	39.2	28.9	7.0	32.0	1.5	44.6	53.9	9.3	
Hori	11490.000	AV	32.4	39.1	-1.6	33.4	-	36.5	53.9	17.4	Floor noise
Hori	17235.000	AV	33.5	42.2	0.2	32.7	-	43.2	53.9	10.7	Floor noise
Hori	22980.000	AV	34.0	39.7	-0.5	32.3	-	40.9	53.9	13.0	Floor noise
Vert	3830.000	PK	45.6	28.9	7.0	32.0	-	49.5	73.9	24.4	
Vert	5650.000	PK	39.6	31.3	7.8	31.8	-	46.9	68.2	21.3	
Vert	5700.000	PK	46.9	31.4	7.8	31.8	-	54.3	105.2	50.9	
Vert	5720.000	PK	62.3	31.4	7.8	31.8	-	69.7	110.8	41.1	
Vert	5725.000	PK	64.7	31.4	7.8	31.8	-	72.1	122.2	50.1	
Vert	11490.000	PK	40.8	39.1	-1.6	33.4	-	44.9	73.9	29.0	Floor noise
Vert	17235.000	PK	41.7	42.2	0.2	32.7	-	51.4	73.9	22.5	Floor noise
Vert	22980.000	PK	42.8	39.7	-0.5	32.3	-	49.7	73.9	24.2	Floor noise
Vert	3830.000	AV	39.6	28.9	7.0	32.0	1.5	45.0	53.9	8.9	
Vert	11490.000	AV	32.4	39.1	-1.6	33.4	-	36.5	53.9	17.4	Floor noise
Vert	17235.000	AV	33.6	42.2	0.2	32.7	-	43.3	53.9	10.6	Floor noise
Vert	22980.000	AV	34.0	39.7	-0.5	32.3	-	40.9	53.9	13.0	Floor noise

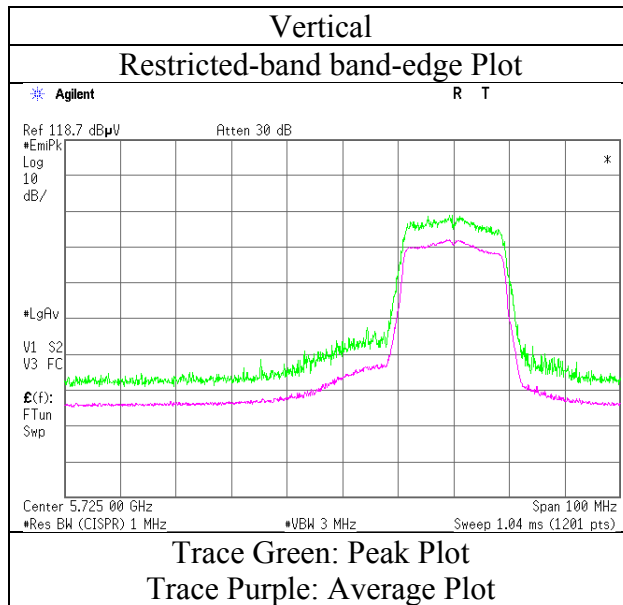
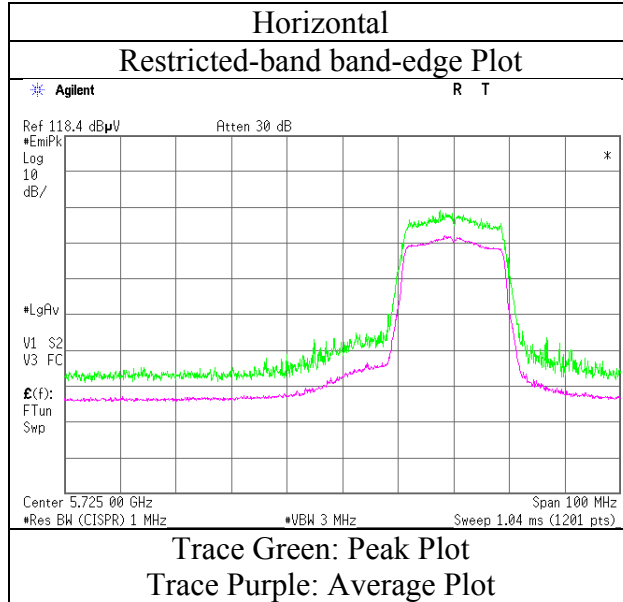
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor:    1 GHz - 10 GHz    20log(4.5 m / 3.0 m) = 3.53 dB  
                          10 GHz - 40 GHz    20log(1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 21, 2016
Temperature / Humidity	24deg. C / 46 % RH
Engineer	Tomoki Matsui
Mode	Tx 11ac-20 5745 MHz



\* Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5785 MHz		

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	3856.746	PK	45.0	29.0	7.0	32.0	-	49.0	73.9	24.9	
Hori	11570.000	PK	40.5	39.1	-1.6	33.4	-	44.6	73.9	29.3	Floor noise
Hori	17355.000	PK	42.1	42.8	0.3	32.7	-	52.5	73.9	21.4	Floor noise
Hori	23140.000	PK	43.2	39.6	-0.5	32.3	-	50.0	73.9	23.9	Floor noise
Hori	3856.746	AV	38.9	29.0	7.0	32.0	1.5	44.4	53.9	9.5	
Hori	11570.000	AV	32.3	39.1	-1.6	33.4	-	36.4	53.9	17.5	Floor noise
Hori	17355.000	AV	33.0	42.8	0.3	32.7	-	43.4	53.9	10.5	Floor noise
Hori	23140.000	AV	34.4	39.6	-0.5	32.3	-	41.2	53.9	12.7	Floor noise
Vert	3856.746	PK	45.1	29.0	7.0	32.0	-	49.1	73.9	24.8	
Vert	11570.000	PK	40.5	39.1	-1.6	33.4	-	44.6	73.9	29.3	Floor noise
Vert	17355.000	PK	42.1	42.8	0.3	32.7	-	52.5	73.9	21.4	Floor noise
Vert	23140.000	PK	43.2	39.6	-0.5	32.3	-	50.0	73.9	23.9	Floor noise
Vert	3856.746	AV	39.1	29.0	7.0	32.0	1.5	44.6	53.9	9.3	
Vert	11570.000	AV	32.3	39.1	-1.6	33.4	-	36.4	53.9	17.5	Floor noise
Vert	17355.000	AV	33.0	42.8	0.3	32.7	-	43.4	53.9	10.5	Floor noise
Vert	23140.000	AV	34.5	39.6	-0.5	32.3	-	41.3	53.9	12.6	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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:     1 GHz - 10 GHz    20log (4.5 m / 3.0 m) = 3.53 dB  
                          10 GHz - 40 GHz   20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-20 5825 MHz		

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	3883.372	PK	45.6	29.0	7.0	32.0	-	49.6	73.9	24.3	
Hori	5850.000	PK	55.2	31.6	7.8	31.8	-	62.8	122.2	59.4	
Hori	5855.000	PK	53.6	31.6	7.8	31.8	-	61.2	110.8	49.6	
Hori	5875.000	PK	44.8	31.6	7.8	31.8	-	52.4	105.2	52.8	
Hori	5925.000	PK	40.6	31.6	7.8	31.8	-	48.2	68.2	20.0	
Hori	11650.000	PK	41.2	39.0	-1.4	33.4	-	45.4	73.9	28.5	Floor noise
Hori	17475.000	PK	42.0	43.5	0.4	32.7	-	53.2	73.9	20.7	Floor noise
Hori	23300.000	PK	43.1	39.5	-0.5	32.2	-	49.9	73.9	24.0	Floor noise
Hori	3883.372	AV	38.7	29.0	7.0	32.0	1.5	44.2	53.9	9.7	
Hori	11650.000	AV	33.2	39.0	-1.4	33.4	-	37.4	53.9	16.5	Floor noise
Hori	17475.000	AV	33.0	43.5	0.4	32.7	-	44.2	53.9	9.7	Floor noise
Hori	23300.000	AV	34.7	39.5	-0.5	32.2	-	41.5	53.9	12.4	Floor noise
Vert	3883.372	PK	45.1	29.0	7.0	32.0	-	49.1	73.9	24.8	
Vert	5850.000	PK	55.8	31.6	7.8	31.8	-	63.4	122.2	58.8	
Vert	5855.000	PK	54.0	31.6	7.8	31.8	-	61.6	110.8	49.2	
Vert	5875.000	PK	43.3	31.6	7.8	31.8	-	50.9	105.2	54.3	
Vert	5925.000	PK	39.7	31.6	7.8	31.8	-	47.3	68.2	20.9	
Vert	11650.000	PK	41.2	39.0	-1.4	33.4	-	45.4	73.9	28.5	Floor noise
Vert	17475.000	PK	42.0	43.5	0.4	32.7	-	53.2	73.9	20.7	Floor noise
Vert	23300.000	PK	43.1	39.5	-0.5	32.2	-	49.9	73.9	24.0	Floor noise
Vert	3883.372	AV	38.6	29.0	7.0	32.0	1.5	44.1	53.9	9.8	
Vert	11650.000	AV	33.2	39.0	-1.4	33.4	-	37.4	53.9	16.5	Floor noise
Vert	17475.000	AV	33.1	43.5	0.4	32.7	-	44.3	53.9	9.6	Floor noise
Vert	23300.000	AV	34.7	39.5	-0.5	32.2	-	41.5	53.9	12.4	Floor noise

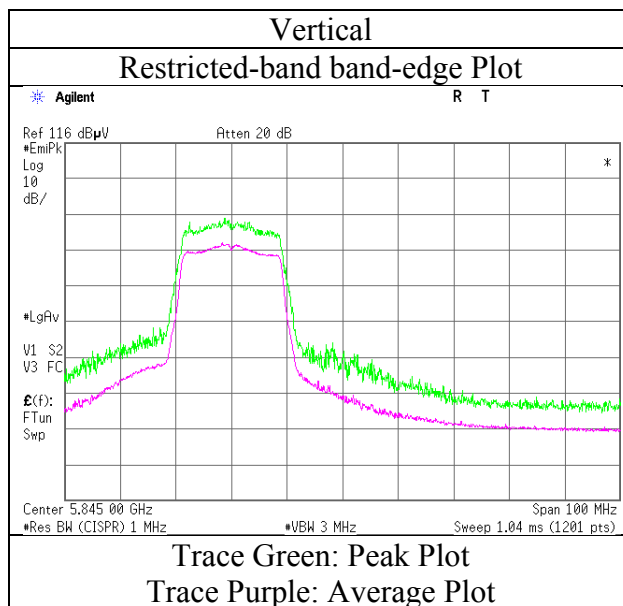
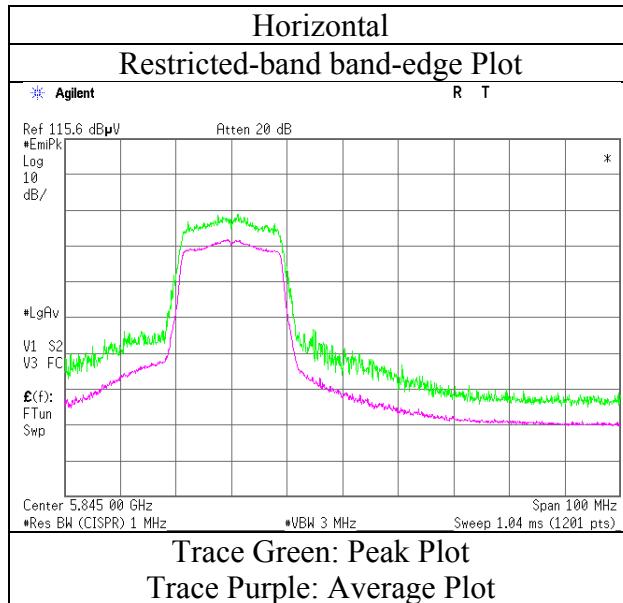
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor:    1 GHz - 10 GHz    20log (4.5 m / 3.0 m) = 3.53 dB  
                          10 GHz - 40 GHz    20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 21, 2016
Temperature / Humidity	24deg. C / 46 % RH
Engineer	Tomoki Matsui
Mode	Tx 11ac-20 5825 MHz



\* Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-40 5310 MHz		

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	55.4	31.3	7.6	31.8	-	62.5	73.9	11.4	
Hori	10620.000	PK	41.7	39.1	-2.0	33.5	-	45.3	73.9	28.6	Floor noise
Hori	15930.000	PK	41.4	38.1	0.6	32.9	-	47.2	73.9	26.7	Floor noise
Hori	21240.000	PK	43.3	38.2	-1.0	33.0	-	47.5	73.9	26.4	Floor noise
Hori	5350.000	AV	43.0	31.3	7.6	31.8	1.4	51.5	53.9	2.4	*1)
Hori	10620.000	AV	32.8	39.1	-2.0	33.5	-	36.4	53.9	17.5	Floor noise
Hori	15930.000	AV	33.3	38.1	0.6	32.9	-	39.1	53.9	14.8	Floor noise
Hori	21240.000	AV	34.3	38.2	-1.0	33.0	-	38.5	53.9	15.4	Floor noise
Vert	5350.000	PK	55.5	31.3	7.6	31.8	-	62.6	73.9	11.3	
Vert	10620.000	PK	41.7	39.1	-2.0	33.5	-	45.3	73.9	28.6	Floor noise
Vert	15930.000	PK	41.4	38.1	0.6	32.9	-	47.2	73.9	26.7	Floor noise
Vert	21240.000	PK	43.3	38.2	-1.0	33.0	-	47.5	73.9	26.4	Floor noise
Vert	5350.000	AV	43.6	31.3	7.6	31.8	1.4	52.1	53.9	1.8	*1)
Vert	10620.000	AV	32.7	39.1	-2.0	33.5	-	36.3	53.9	17.6	Floor noise
Vert	15930.000	AV	33.3	38.1	0.6	32.9	-	39.1	53.9	14.8	Floor noise
Vert	21240.000	AV	34.3	38.2	-1.0	33.0	-	38.5	53.9	15.4	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

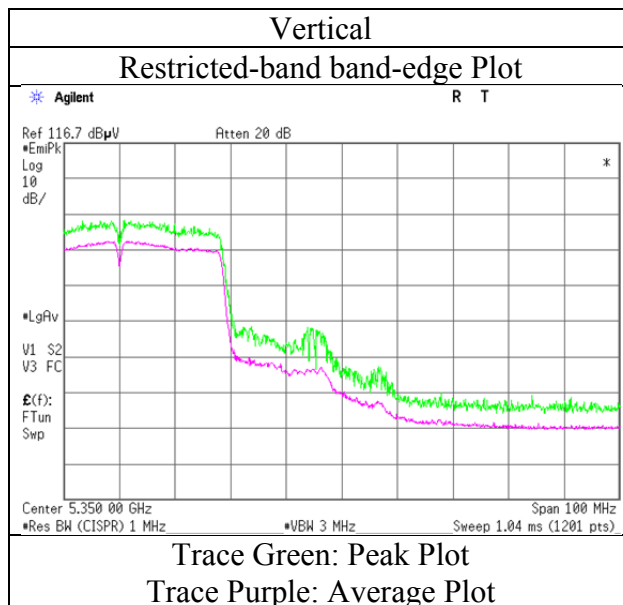
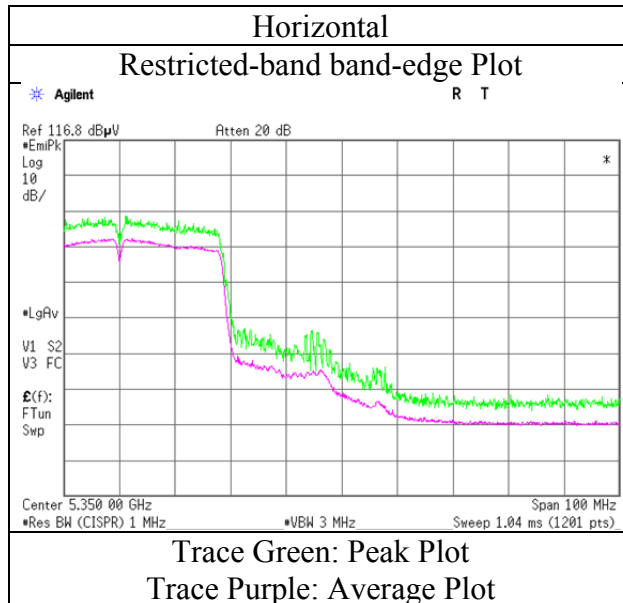
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor:     1 GHz - 10 GHz    20log (4.5 m / 3.0 m) = 3.53 dB  
                          10 GHz - 40 GHz   20log (1.0 m / 3.0 m) = -9.5 dB

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

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 49 % RH
Engineer	Ryota Yamanaka (1 GHz-10 GHz)
Mode	Tx 11ac-40 5310 MHz



\* Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka (1 GHz-10 GHz)	Tomoki Matsui (10 GHz-18 GHz)	Tomoki Matsui (Above 18GHz)
Mode	Tx 11ac-40 5510 MHz		

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	3673.370	PK	45.0	28.7	6.9	32.1	-	48.5	73.9	25.4	
Hori	5460.000	PK	54.6	31.2	7.7	31.8	-	61.7	73.9	12.2	
Hori	5470.000	PK	56.1	31.2	7.7	31.8	-	63.2	68.2	5.0	
Hori	11020.000	PK	42.8	39.9	-2.0	33.6	-	47.1	73.9	26.8	Floor noise
Hori	16530.000	PK	41.5	39.5	0.3	32.8	-	48.5	73.9	25.4	Floor noise
Hori	22040.000	PK	43.0	38.0	-0.8	32.6	-	47.6	73.9	26.3	Floor noise
Hori	3673.370	AV	38.8	28.7	6.9	32.1	1.4	43.7	53.9	10.2	
Hori	5460.000	AV	40.3	31.2	7.7	31.8	1.4	48.8	53.9	5.1	*1)
Hori	11020.000	AV	33.1	39.9	-2.0	33.6	-	37.4	53.9	16.5	Floor noise
Hori	16530.000	AV	33.3	39.5	0.3	32.8	-	40.3	53.9	13.6	Floor noise
Hori	22040.000	AV	35.2	38.0	-0.8	32.6	-	39.8	53.9	14.1	Floor noise
Vert	3673.370	PK	45.5	28.7	6.9	32.1	-	49.0	73.9	24.9	
Vert	5460.000	PK	49.4	31.2	7.7	31.8	-	56.5	73.9	17.4	
Vert	5470.000	PK	56.2	31.2	7.7	31.8	-	63.3	68.2	4.9	
Vert	11020.000	PK	42.8	39.9	-2.0	33.6	-	47.1	73.9	26.8	Floor noise
Vert	16530.000	PK	41.5	39.5	0.3	32.8	-	48.5	73.9	25.4	Floor noise
Vert	22040.000	PK	43.0	38.0	-0.8	32.6	-	47.6	73.9	26.3	Floor noise
Vert	3673.370	AV	39.0	28.7	6.9	32.1	1.4	43.9	53.9	10.0	
Vert	5460.000	AV	38.3	31.2	7.7	31.8	1.4	46.8	53.9	7.1	*1)
Vert	11020.000	AV	33.2	39.9	-2.0	33.6	-	37.5	53.9	16.4	Floor noise
Vert	16530.000	AV	33.3	39.5	0.3	32.8	-	40.3	53.9	13.6	Floor noise
Vert	22040.000	AV	35.1	38.0	-0.8	32.6	-	39.7	53.9	14.2	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

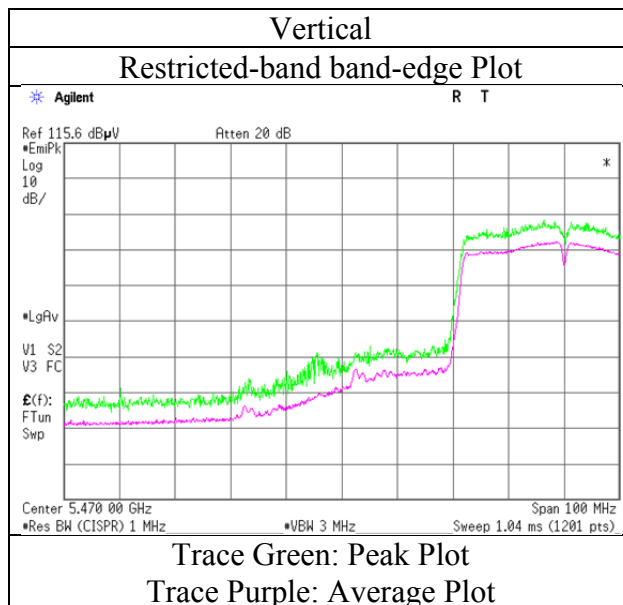
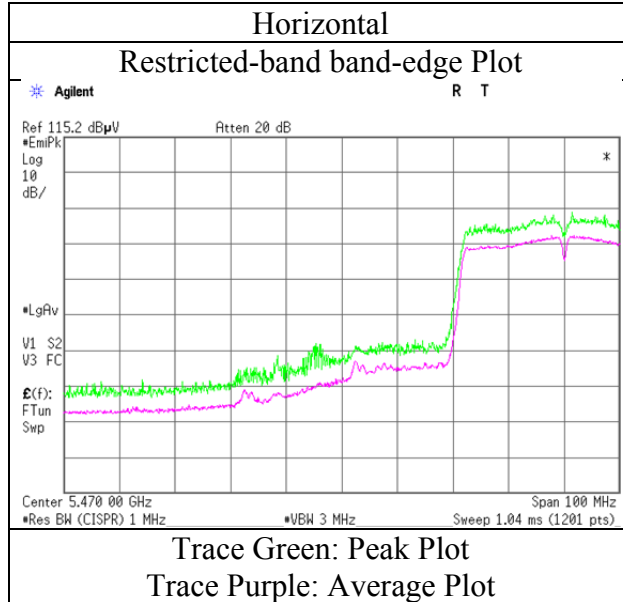
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor:     1 GHz - 10 GHz    20log (4.5 m / 3.0 m) = 3.53 dB  
                          10 GHz - 40 GHz   20log (1.0 m / 3.0 m) = -9.5 dB

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

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 49 % RH
Engineer	Ryota Yamanaka (1 GHz-10 GHz)
Mode	Tx 11ac-40 5510 MHz



\* Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-40 5550 MHz		

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	3700.000	PK	45.6	28.7	6.9	32.1	-	49.1	73.9	24.8	
Hori	11100.000	PK	41.5	39.8	-1.9	33.5	-	45.9	73.9	28.0	Floor noise
Hori	16650.000	PK	41.7	39.8	0.3	32.8	-	49.0	73.9	24.9	Floor noise
Hori	22200.000	PK	43.7	38.3	-0.7	32.6	-	48.7	73.9	25.2	Floor noise
Hori	3700.000	AV	39.6	28.7	6.9	32.1	1.4	44.5	53.9	9.4	
Hori	11100.000	AV	33.2	39.8	-1.9	33.5	-	37.6	53.9	16.3	Floor noise
Hori	16650.000	AV	32.9	39.8	0.3	32.8	-	40.2	53.9	13.7	Floor noise
Hori	22200.000	AV	34.8	38.3	-0.7	32.6	-	39.8	53.9	14.1	Floor noise
Vert	3700.000	PK	45.3	28.7	6.9	32.1	-	48.8	73.9	25.1	
Vert	11100.000	PK	41.5	39.8	-1.9	33.5	-	45.9	73.9	28.0	Floor noise
Vert	16650.000	PK	41.7	39.8	0.3	32.8	-	49.0	73.9	24.9	Floor noise
Vert	22200.000	PK	43.7	38.3	-0.7	32.6	-	48.7	73.9	25.2	Floor noise
Vert	3700.000	AV	39.2	28.7	6.9	32.1	1.4	44.1	53.9	9.8	
Vert	11100.000	AV	33.2	39.8	-1.9	33.5	-	37.6	53.9	16.3	Floor noise
Vert	16650.000	AV	32.9	39.8	0.3	32.8	-	40.2	53.9	13.7	Floor noise
Vert	22200.000	AV	34.7	38.3	-0.7	32.6	-	39.7	53.9	14.2	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

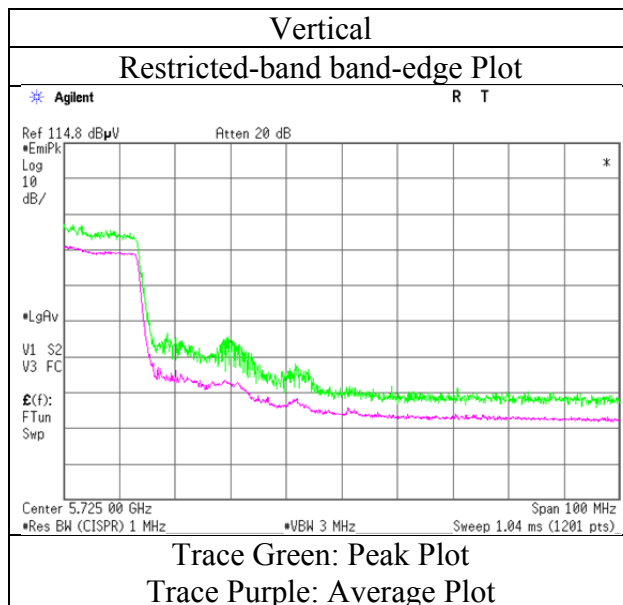
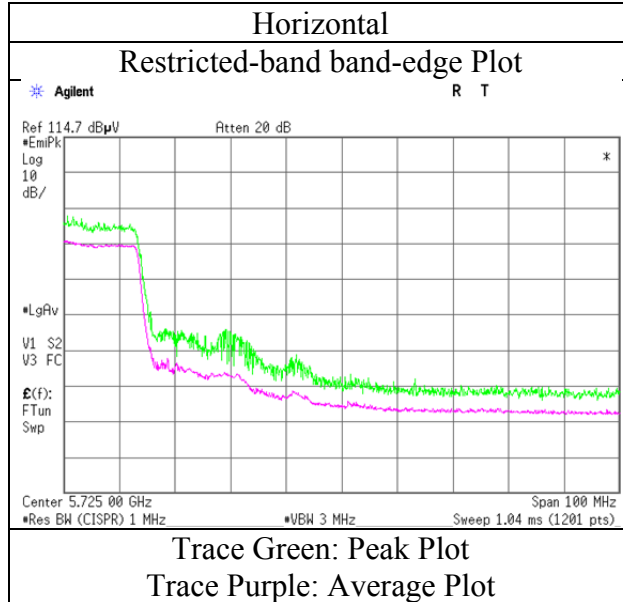
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor:     1 GHz - 10 GHz    20log (4.5 m / 3.0 m) = 3.53 dB  
                          10 GHz - 40 GHz   20log (1.0 m / 3.0 m) = -9.5 dB



## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 49 % RH
Engineer	Ryota Yamanaka (1 GHz-10 GHz)
Mode	Tx 11ac-40 5670 MHz



\* Final result of restricted band edge was shown in tabular data.

**UL Japan, Inc.**

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## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-40 5710 MHz		

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	3806.690	PK	45.8	28.9	7.0	32.0	-	49.7	73.9	24.2	
Hori	11420.000	PK	40.8	39.3	-1.6	33.4	-	45.1	73.9	28.8	Floor noise
Hori	17130.000	PK	41.5	41.6	0.0	32.7	-	50.4	73.9	23.5	Floor noise
Hori	22840.000	PK	43.8	39.5	-0.6	32.4	-	50.3	73.9	23.6	Floor noise
Hori	3806.690	AV	40.4	28.9	7.0	32.0	1.4	45.7	53.9	8.2	
Hori	11420.000	AV	32.4	39.3	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Hori	17130.000	AV	33.3	41.6	0.0	32.7	-	42.2	53.9	11.7	Floor noise
Hori	22840.000	AV	34.5	39.5	-0.6	32.4	-	41.0	53.9	12.9	Floor noise
Vert	3806.690	PK	45.5	28.9	7.0	32.0	-	49.4	73.9	24.5	
Vert	11420.000	PK	40.8	39.3	-1.6	33.4	-	45.1	73.9	28.8	Floor noise
Vert	17130.000	PK	41.5	41.6	0.0	32.7	-	50.4	73.9	23.5	Floor noise
Vert	22840.000	PK	43.8	39.5	-0.6	32.4	-	50.3	73.9	23.6	Floor noise
Vert	3806.690	AV	40.0	28.9	7.0	32.0	1.4	45.3	53.9	8.6	
Vert	11420.000	AV	32.3	39.3	-1.6	33.4	-	36.6	53.9	17.3	Floor noise
Vert	17130.000	AV	33.3	41.6	0.0	32.7	-	42.2	53.9	11.7	Floor noise
Vert	22840.000	AV	34.5	39.5	-0.6	32.4	-	41.0	53.9	12.9	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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:      1 GHz - 10 GHz      20log (4.5 m / 3.0 m) = 3.53 dB  
                                 10 GHz - 40 GHz      20log (1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber  
Report No. : 11500824H  
Date : November 22, 2016      November 22, 2016      November 23, 2016  
Temperature / Humidity : 24deg. C / 49 % RH      24deg. C / 42 % RH      25deg. C / 39 % RH  
Engineer : Ryota Yamanaka      Tomoki Matsui      Tomoki Matsui  
              (1 GHz-10 GHz)      (10 GHz-18 GHz)      (Above 18GHz)  
Mode : Tx 11ac-40 5755 MHz

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	3836.717	PK	45.3	28.9	7.0	32.0	-	49.2	73.9	24.7	
Hori	5650.000	PK	40.9	31.3	7.8	31.8	-	48.2	68.2	20.0	
Hori	5700.000	PK	47.0	31.4	7.8	31.8	-	54.4	105.2	50.8	
Hori	5720.000	PK	55.7	31.4	7.8	31.8	-	63.1	110.8	47.7	
Hori	5725.000	PK	57.8	31.4	7.8	31.8	-	65.2	122.2	57.0	
Hori	11510.000	PK	41.7	39.1	-1.6	33.4	-	45.8	73.9	28.1	Floor noise
Hori	17265.000	PK	42.2	42.3	0.3	32.7	-	52.1	73.9	21.8	Floor noise
Hori	23020.000	PK	43.4	39.7	-0.5	32.3	-	50.3	73.9	23.6	Floor noise
Hori	3836.717	AV	40.2	28.9	7.0	32.0	1.4	45.5	53.9	8.4	
Hori	11510.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Hori	17265.000	AV	33.7	42.3	0.3	32.7	-	43.6	53.9	10.3	Floor noise
Hori	23020.000	AV	34.5	39.7	-0.5	32.3	-	41.4	53.9	12.5	Floor noise
Vert	3836.717	PK	45.5	28.9	7.0	32.0	-	49.4	73.9	24.5	
Vert	5650.000	PK	41.2	31.3	7.8	31.8	-	48.5	68.2	19.7	
Vert	5700.000	PK	46.6	31.4	7.8	31.8	-	54.0	105.2	51.2	
Vert	5720.000	PK	55.7	31.4	7.8	31.8	-	63.1	110.8	47.7	
Vert	5725.000	PK	58.1	31.4	7.8	31.8	-	65.5	122.2	56.7	
Vert	11510.000	PK	41.7	39.1	-1.6	33.4	-	45.8	73.9	28.1	Floor noise
Vert	17265.000	PK	42.2	42.3	0.3	32.7	-	52.1	73.9	21.8	Floor noise
Vert	23020.000	PK	43.4	39.7	-0.5	32.3	-	50.3	73.9	23.6	Floor noise
Vert	3836.717	AV	40.2	28.9	7.0	32.0	1.4	45.5	53.9	8.4	
Vert	11510.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Vert	17265.000	AV	33.7	42.3	0.3	32.7	-	43.6	53.9	10.3	Floor noise
Vert	23020.000	AV	34.5	39.7	-0.5	32.3	-	41.4	53.9	12.5	Floor noise

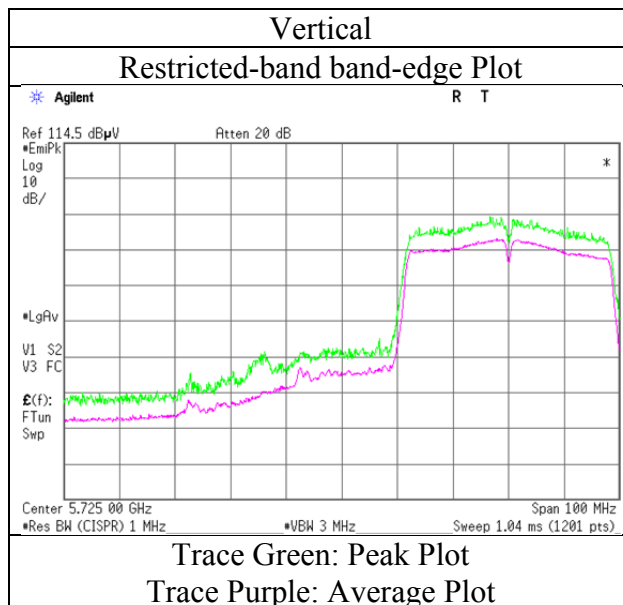
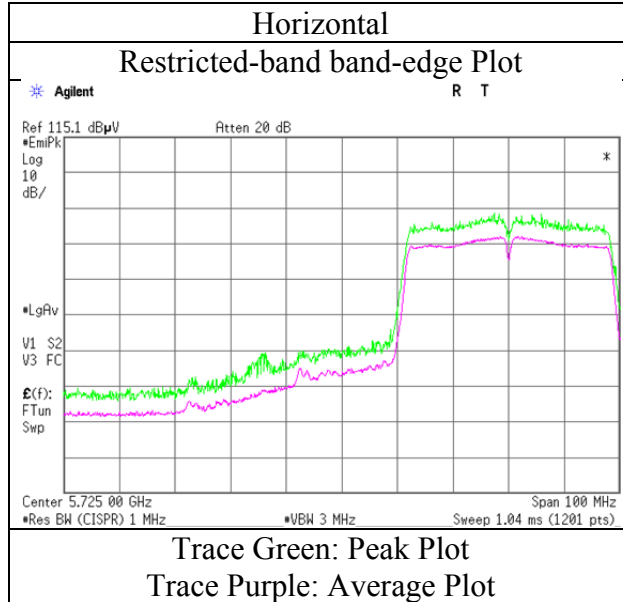
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor:      1 GHz - 10 GHz      20log(4.5 m / 3.0 m) = 3.53 dB  
                              10 GHz - 40 GHz      20log(1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 49 % RH
Engineer	Ryota Yamanaka (1 GHz-10 GHz)
Mode	Tx 11ac-40 5755 MHz



\* Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

Test place Ise EMC Lab. No.3 Semi Anechoic Chamber  
Report No. 11500824H  
Date November 22, 2016 November 22, 2016 November 23, 2016  
Temperature / Humidity 24deg. C / 49 % RH 24deg. C / 42 % RH 25deg. C / 39 % RH  
Engineer Ryota Yamanaka Tomoki Matsui Tomoki Matsui  
(1 GHz-10 GHz) (10 GHz-18 GHz) (Above 18GHz)  
Mode Tx 11ac-40 5795 MHz

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	3863.377	PK	45.5	29.0	7.0	32.0	-	49.5	73.9	24.4	
Hori	5850.000	PK	47.0	31.6	7.8	31.8	-	54.6	122.2	67.6	
Hori	5855.000	PK	46.8	31.6	7.8	31.8	-	54.4	110.8	56.4	
Hori	5875.000	PK	40.9	31.6	7.8	31.8	-	48.5	105.2	56.7	
Hori	5925.000	PK	39.1	31.6	7.8	31.8	-	46.7	68.2	21.5	
Hori	11590.000	PK	41.1	39.1	-1.6	33.4	-	45.2	73.9	28.7	Floor noise
Hori	17385.000	PK	41.5	43.0	0.3	32.7	-	52.1	73.9	21.8	Floor noise
Hori	23180.000	PK	43.2	39.6	-0.5	32.3	-	50.0	73.9	23.9	Floor noise
Hori	3863.377	AV	39.9	29.0	7.0	32.0	1.4	45.3	53.9	8.6	
Hori	11590.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Hori	17385.000	AV	33.3	43.0	0.3	32.7	-	43.9	53.9	10.0	Floor noise
Hori	23180.000	AV	34.6	39.6	-0.5	32.3	-	41.4	53.9	12.5	Floor noise
Vert	3863.377	PK	45.3	29.0	7.0	32.0	-	49.3	73.9	24.6	
Vert	5850.000	PK	45.8	31.6	7.8	31.8	-	53.4	122.2	68.8	
Vert	5855.000	PK	44.4	31.6	7.8	31.8	-	52.0	110.8	58.8	
Vert	5875.000	PK	42.0	31.6	7.8	31.8	-	49.6	105.2	55.6	
Vert	5925.000	PK	40.7	31.6	7.8	31.8	-	48.3	68.2	19.9	
Vert	11590.000	PK	41.1	39.1	-1.6	33.4	-	45.2	73.9	28.7	Floor noise
Vert	17385.000	PK	41.5	43.0	0.3	32.7	-	52.1	73.9	21.8	Floor noise
Vert	23180.000	PK	43.2	39.6	-0.5	32.3	-	50.0	73.9	23.9	Floor noise
Vert	3863.377	AV	39.7	29.0	7.0	32.0	1.4	45.1	53.9	8.8	
Vert	11590.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Vert	17385.000	AV	33.3	43.0	0.3	32.7	-	43.9	53.9	10.0	Floor noise
Vert	23180.000	AV	34.7	39.6	-0.5	32.3	-	41.5	53.9	12.4	Floor noise

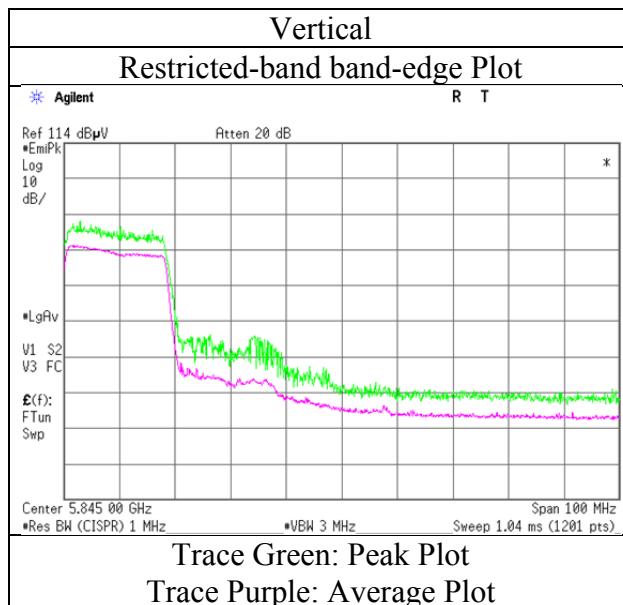
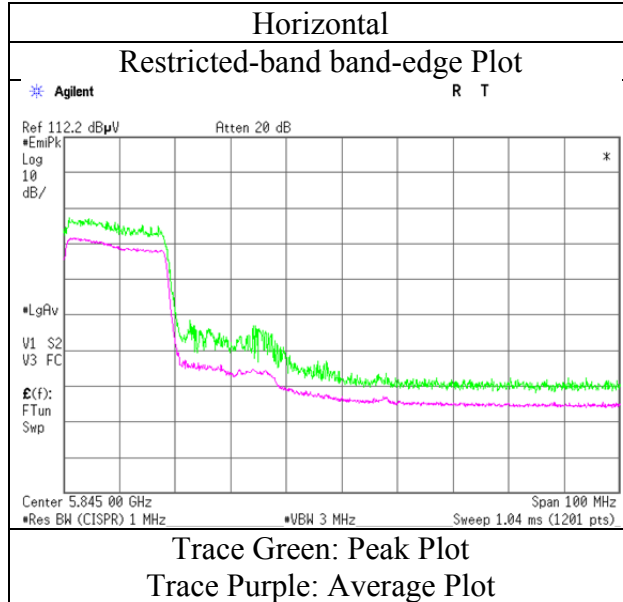
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor: 1 GHz - 10 GHz 20log(4.5 m / 3.0 m) = 3.53 dB  
10 GHz - 40 GHz 20log(1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 49 % RH
Engineer	Ryota Yamanaka (1 GHz-10 GHz)
Mode	Tx 11ac-40 5795 MHz



\* Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 22, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 49 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Ryota Yamanaka	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz)
Mode	Tx 11ac-80 5530 MHz		

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	3686.673	PK	45.4	28.7	6.9	32.1	-	48.9	73.9	25.0	
Hori	5460.000	PK	50.9	31.2	7.7	31.8	-	58.0	73.9	15.9	
Hori	5470.000	PK	52.1	31.2	7.7	31.8	-	59.2	68.2	9.0	
Hori	11060.000	PK	42.2	39.9	-1.9	33.6	-	46.6	73.9	27.3	Floor noise
Hori	16590.000	PK	42.1	39.7	0.3	32.8	-	49.3	73.9	24.6	Floor noise
Hori	22120.000	PK	43.4	38.2	-0.8	32.6	-	48.2	73.9	25.7	Floor noise
Hori	3686.673	AV	39.8	28.7	6.9	32.1	3.1	46.4	53.9	7.5	
Hori	5460.000	AV	34.9	31.2	7.7	31.8	3.1	45.1	53.9	8.8	*1)
Hori	11060.000	AV	33.3	39.9	-1.9	33.6	-	37.7	53.9	16.2	Floor noise
Hori	16590.000	AV	33.1	39.7	0.3	32.8	-	40.3	53.9	13.6	Floor noise
Hori	22120.000	AV	34.4	38.2	-0.8	32.6	-	39.2	53.9	14.7	Floor noise
Vert	3686.673	PK	45.2	28.7	6.9	32.1	-	48.7	73.9	25.2	
Vert	5460.000	PK	47.9	31.2	7.7	31.8	-	55.0	73.9	18.9	
Vert	5470.000	PK	49.8	31.2	7.7	31.8	-	56.9	68.2	11.3	
Vert	11060.000	PK	42.2	39.9	-1.9	33.6	-	46.6	73.9	27.3	Floor noise
Vert	16590.000	PK	42.1	39.7	0.3	32.8	-	49.3	73.9	24.6	Floor noise
Vert	22120.000	PK	43.4	38.2	-0.8	32.6	-	48.2	73.9	25.7	Floor noise
Vert	3686.673	AV	39.4	28.7	6.9	32.1	3.1	46.0	53.9	7.9	
Vert	5460.000	AV	32.6	31.2	7.7	31.8	3.1	42.8	53.9	11.1	*1)
Vert	11060.000	AV	33.3	39.9	-1.9	33.6	-	37.7	53.9	16.2	Floor noise
Vert	16590.000	AV	33.1	39.7	0.3	32.8	-	40.3	53.9	13.6	Floor noise
Vert	22120.000	AV	34.4	38.2	-0.8	32.6	-	39.2	53.9	14.7	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

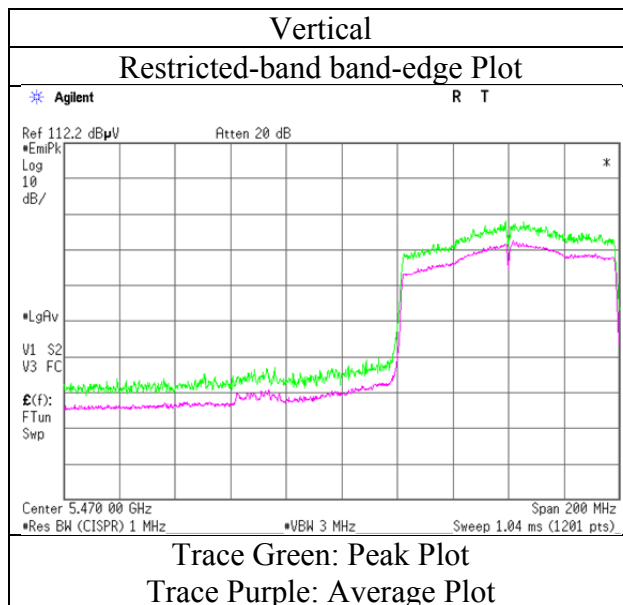
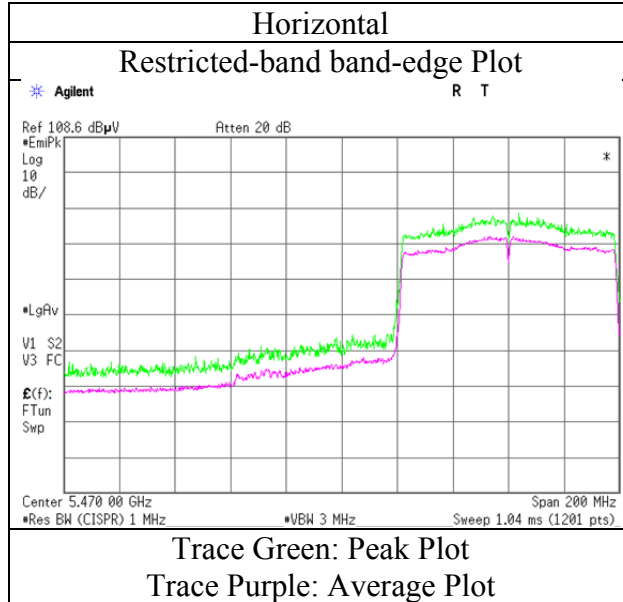
\*Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

Distance factor:     1 GHz - 10 GHz    20log (4.5 m / 3.0 m) = 3.53 dB  
                          10 GHz - 40 GHz   20log (1.0 m / 3.0 m) = -9.5 dB

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

## Radiated Spurious Emission

Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 49 % RH
Engineer	Ryota Yamanaka (1 GHz-10 GHz)
Mode	Tx 11ac-80 5530 MHz



\* Final result of restricted band edge was shown in tabular data.

## Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber  
Report No. : 11500824H  
Date : November 22, 2016      November 23, 2016  
Temperature / Humidity : 24deg. C / 42 % RH      25deg. C / 39 % RH  
Engineer : Tomoki Matsui      Tomoki Matsui  
            (1 GHz-18 GHz)      (Above 18GHz)  
Mode : Tx 11ac-80 5690MHz

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	3793.350	PK	45.5	28.9	7.0	32.0	-	49.4	73.9	24.5	
Hori	11380.000	PK	40.7	39.3	-1.7	33.4	-	44.9	73.9	29.0	Floor noise
Hori	17070.000	PK	42.0	41.2	0.0	32.8	-	50.4	73.9	23.5	Floor noise
Hori	22760.000	PK	43.4	39.3	-0.6	32.4	-	49.7	73.9	24.2	Floor noise
Hori	3793.350	AV	38.9	28.9	7.0	32.0	3.1	45.9	53.9	8.0	
Hori	11380.000	AV	32.2	39.3	-1.7	33.4	-	36.4	53.9	17.5	Floor noise
Hori	17070.000	AV	33.7	41.2	0.0	32.8	-	42.1	53.9	11.8	Floor noise
Hori	22760.000	AV	34.7	39.3	-0.6	32.4	-	41.0	53.9	12.9	Floor noise
Vert	3793.350	PK	45.5	28.9	7.0	32.0	-	49.4	73.9	24.5	
Vert	11380.000	PK	40.7	39.3	-1.7	33.4	-	44.9	73.9	29.0	Floor noise
Vert	17070.000	PK	42.0	41.2	0.0	32.8	-	50.4	73.9	23.5	Floor noise
Vert	22760.000	PK	43.4	39.3	-0.6	32.4	-	49.7	73.9	24.2	Floor noise
Vert	3793.350	AV	39.6	28.9	7.0	32.0	3.1	46.6	53.9	7.3	
Vert	11380.000	AV	32.3	39.3	-1.7	33.4	-	36.5	53.9	17.4	Floor noise
Vert	17070.000	AV	33.7	41.2	0.0	32.8	-	42.1	53.9	11.8	Floor noise
Vert	22760.000	AV	34.6	39.3	-0.6	32.4	-	40.9	53.9	13.0	Floor noise

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 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:      1 GHz - 10 GHz       $20\log(4.5\text{ m} / 3.0\text{ m}) = 3.53\text{ dB}$   
                                 10 GHz - 40 GHz       $20\log(1.0\text{ m} / 3.0\text{ m}) = -9.5\text{ dB}$

## Radiated Spurious Emission

Test place : Ise EMC Lab. No.3 Semi Anechoic Chamber  
Report No. : 11500824H  
Date : November 22, 2016      November 23, 2016  
Temperature / Humidity : 24deg. C / 42 % RH      25deg. C / 39 % RH  
Engineer : Tomoki Matsui      Tomoki Matsui  
(1 GHz-18 GHz)      (Above 18GHz)  
Mode : Tx 11ac-80 5775 MHz

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	3850.017	PK	45.0	29.0	7.0	32.0	-	49.0	73.9	24.9	
Hori	5650.000	PK	42.9	31.3	7.8	31.8	-	50.2	68.2	18.0	
Hori	5700.000	PK	55.7	31.4	7.8	31.8	-	63.1	105.2	42.1	
Hori	5720.000	PK	59.3	31.4	7.8	31.8	-	66.7	110.8	44.1	
Hori	5725.000	PK	59.4	31.4	7.8	31.8	-	66.8	122.2	55.4	
Hori	5850.000	PK	52.1	31.6	7.8	31.8	-	59.7	122.2	62.5	
Hori	5855.000	PK	51.5	31.6	7.8	31.8	-	59.1	110.8	51.7	
Hori	5860.000	PK	49.5	31.6	7.8	31.8	-	57.1	68.2	11.1	
Hori	5875.000	PK	44.6	31.6	7.8	31.8	-	52.2	105.2	53.0	
Hori	5925.000	PK	41.3	31.6	7.8	31.8	-	48.9	68.2	19.3	
Hori	11550.000	PK	41.0	39.1	-1.6	33.4	-	45.1	73.9	28.8	Floor noise
Hori	17325.000	PK	41.9	42.7	0.3	32.7	-	52.2	73.9	21.7	Floor noise
Hori	23100.000	PK	43.2	39.7	-0.5	32.3	-	50.1	73.9	23.8	Floor noise
Hori	3850.017	AV	39.0	29.0	7.0	32.0	3.1	46.1	53.9	7.8	
Hori	11550.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Hori	17325.000	AV	33.1	42.7	0.3	32.7	-	43.4	53.9	10.5	Floor noise
Hori	23100.000	AV	34.4	39.7	-0.5	32.3	-	41.3	53.9	12.6	Floor noise
Vert	3850.017	PK	46.3	29.0	7.0	32.0	-	50.3	73.9	23.6	
Vert	5650.000	PK	41.0	31.3	7.8	31.8	-	48.3	68.2	19.9	
Vert	5700.000	PK	53.5	31.4	7.8	31.8	-	60.9	105.2	44.3	
Vert	5720.000	PK	57.3	31.4	7.8	31.8	-	64.7	110.8	46.1	
Vert	5725.000	PK	57.6	31.4	7.8	31.8	-	65.0	122.2	57.2	
Vert	5850.000	PK	50.8	31.6	7.8	31.8	-	58.4	122.2	63.8	
Vert	5855.000	PK	50.5	31.6	7.8	31.8	-	58.1	110.8	52.7	
Vert	5875.000	PK	43.6	31.6	7.8	31.8	-	51.2	105.2	54.0	
Vert	5925.000	PK	40.8	31.6	7.8	31.8	-	48.4	68.2	19.8	
Vert	11550.000	PK	41.0	39.1	-1.6	33.4	-	45.1	73.9	28.8	Floor noise
Vert	17325.000	PK	41.9	42.7	0.3	32.7	-	52.2	73.9	21.7	Floor noise
Vert	23100.000	PK	43.2	39.7	-0.5	32.3	-	50.1	73.9	23.8	Floor noise
Vert	3850.017	AV	39.3	29.0	7.0	32.0	3.1	46.4	53.9	7.5	
Vert	11550.000	AV	32.6	39.1	-1.6	33.4	-	36.7	53.9	17.2	Floor noise
Vert	17325.000	AV	33.1	42.7	0.3	32.7	-	43.4	53.9	10.5	Floor noise
Vert	23100.000	AV	34.4	39.7	-0.5	32.3	-	41.3	53.9	12.6	Floor noise

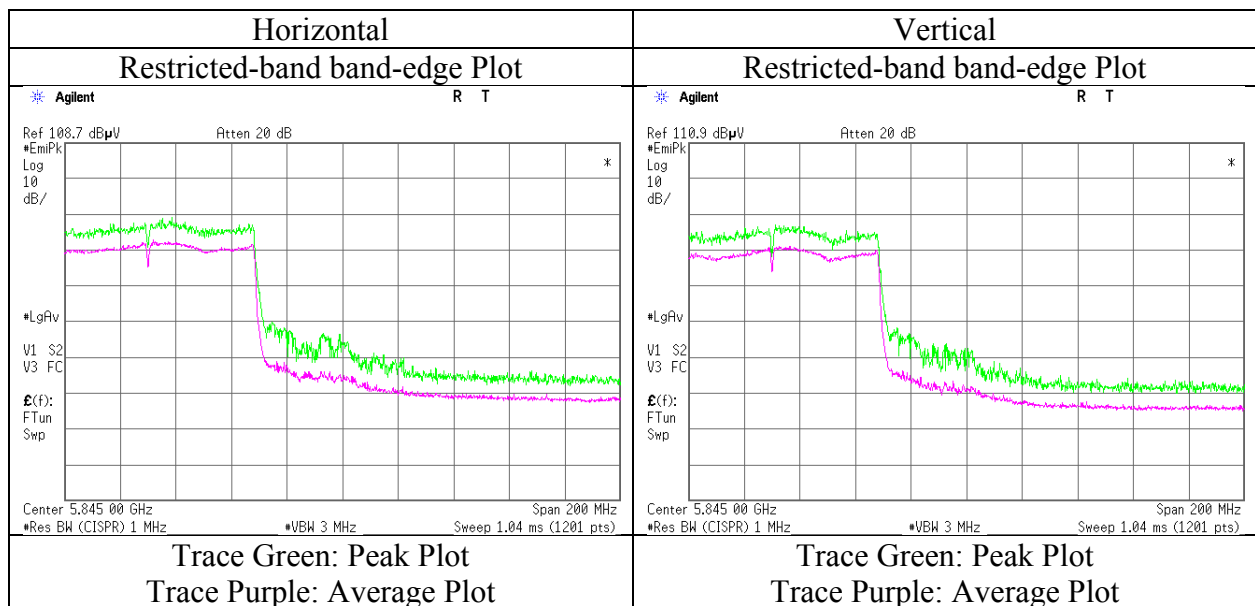
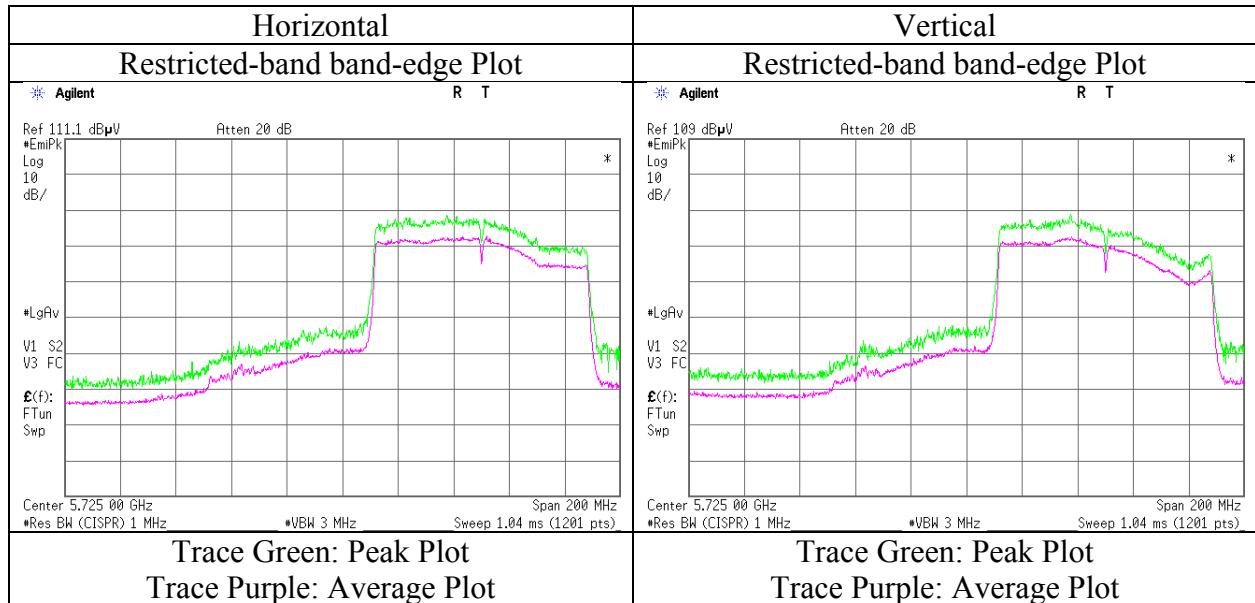
Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

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

Distance factor:      1 GHz - 10 GHz      20log(4.5 m / 3.0 m) = 3.53 dB  
                                 10 GHz - 40 GHz      20log(1.0 m / 3.0 m) = -9.5 dB

## Radiated Spurious Emission

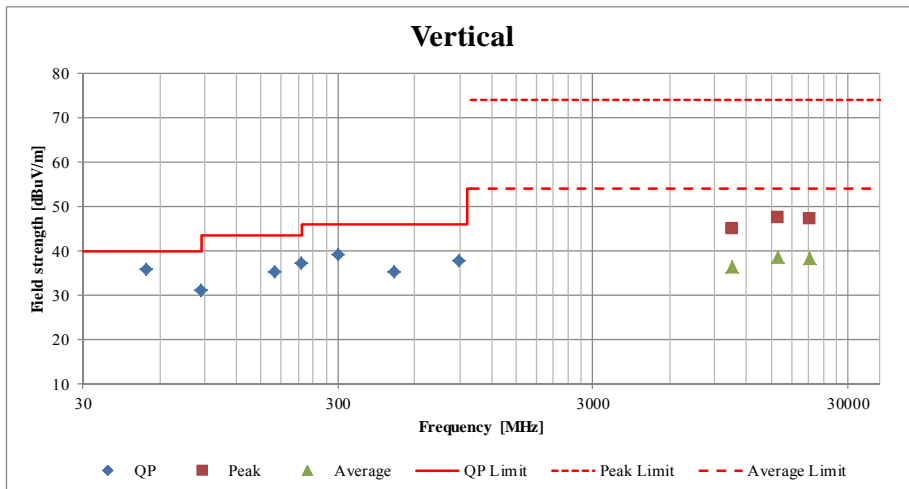
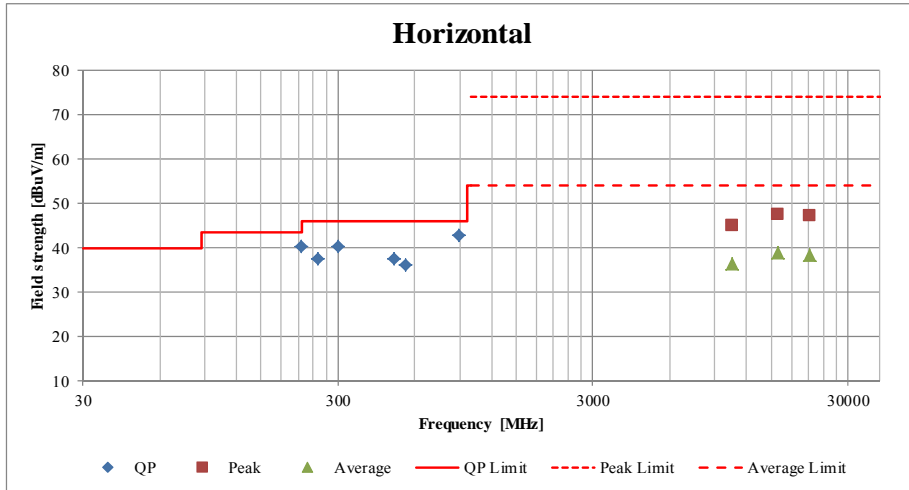
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber
Report No.	11500824H
Date	November 22, 2016
Temperature / Humidity	24deg. C / 42 % RH
Engineer	Tomoki Matsui
Mode	Tx 11ac-80 5775 MHz



\* Final result of restricted band edge was shown in tabular data.

**Radiated Spurious Emission**  
**(Plot data, Worst case)**

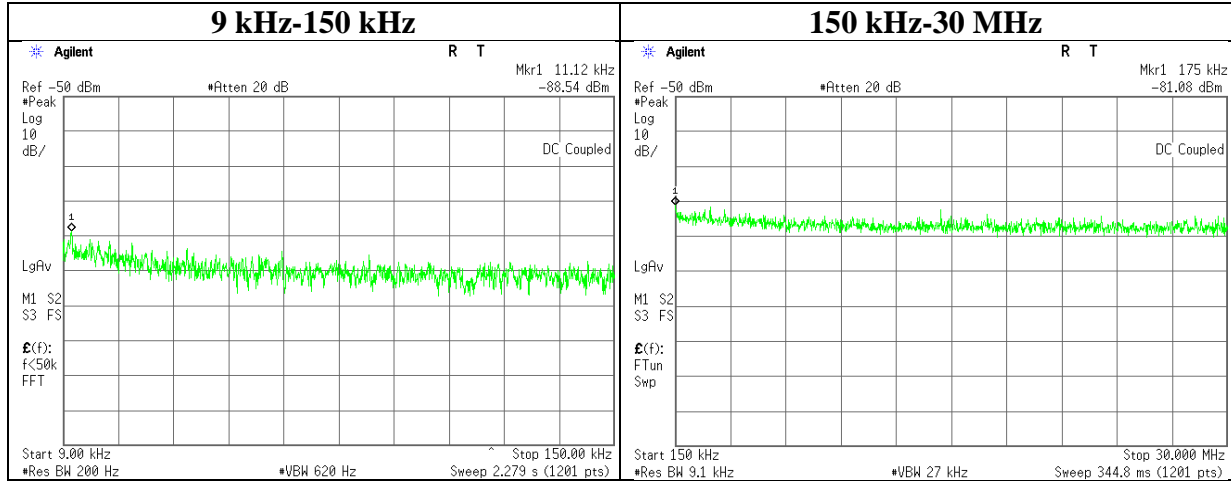
Test place	Ise EMC Lab. No.3 Semi Anechoic Chamber		
Report No.	11500824H		
Date	November 21, 2016	November 22, 2016	November 23, 2016
Temperature / Humidity	24deg. C / 46 % RH	24deg. C / 42 % RH	25deg. C / 39 % RH
Engineer	Tomoki Matsui	Tomoki Matsui	Tomoki Matsui
	(1 GHz-10 GHz)	(10 GHz-18 GHz)	(Above 18GHz and Below 1GHz)
Mode	Tx 11ac-20 5300 MHz		



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

## Conducted Spurious Emission

Test place	Ise EMC Lab. No.3 Measurement Room
Report No.	11500824H
Date	November 11, 2016
Temperature / Humidity	24deg. C / 39 % RH
Engineer	Ryota Yamanaka
Mode	Tx 11ac-20 5300 MHz



Frequency [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator Loss [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
11.12	-88.5	0.05	9.8	2.0	1	-76.7	300	6.0	-15.4	46.6	62.0	
175.00	-81.1	0.05	9.8	2.0	1	-69.2	300	6.0	-7.9	22.7	30.6	

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

$$\text{EIRP [dBm]} = \text{Reading [dBm]} + \text{Cable loss [dB]} + \text{Attenuator Loss [dB]} + \text{Antenna gain [dBi]} + 10 * \log(N)$$

\* N :Number of output

\*2.0 dBi was applied to the test result based on KDB 558074 since antenna gain was less than 2.0 dBi.

## APPENDIX 2: Test instruments

### Test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MOS-29	Thermo-Hygrometer	Custom	CTH-201	2901	AT	2016/01/21 * 12
MRENT-130	Spectrum Analyzer	Agilent	E4440A	MY46187750	AT	2016/06/03 * 12
MPM-16	Power Meter	Agilent	8990B	MY51000271	AT	2016/04/07 * 12
MPSE-22	Power sensor	Agilent	N1923A	MY54070003	AT	2016/04/07 * 12
MAT-58	Attenuator(10dB)	Suhner	6810.19.A	-	AT	2016/01/18 * 12
MCC-171	Microwave Cable	Junkosha	MWX221	1409S494	AT	2016/03/11 * 12
MCC-38	Coaxial Cable	UL Japan	-	-	AT	2015/12/07 * 12
MAT-10	Attenuator(10dB)	Weinschel Corp	2	BL1173	AT	2015/11/10 * 12
MAEC-03	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE/CE	2016/10/20 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	1301	RE/CE	2016/01/21 * 12
MJM-16	Measure	KOMELON	KMC-36	-	RE/CE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	RE/CE	-
MSA-16	Spectrum Analyzer	Agilent	E4440A	MY46186390	RE	2016/02/08 * 12
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	258	RE	2016/05/29 * 12
MCC-167	Microwave Cable	Junkosha	MWX221	1404S374(1m) / 1405S074(5m)	RE	2016/05/20 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	MY39500779	RE	2016/03/24 * 12
MHA-16	Horn Antenna 15-40GHz	Schwarzbeck	BBHA9170	BBHA9170306	RE	2016/05/29 * 12
MMM-08	DIGITAL HiTESTER	Hioki	3805	051201197	RE/CE	2016/01/13 * 12
MSA-04	Spectrum Analyzer	Agilent	E4448A	US44300523	RE/CE	2016/11/10 * 12
MCC-177	Microwave Cable	Junkosha	MMX221-00500D MSDMS	1502S304	RE	2016/03/10 * 12
MHF-22	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCB	602	RE	2016/01/19 * 12
MCC-55	Microwave Cable	Suhner	SUCOFLEX101	2874(1m) / 2877(5m)	RE	2016/03/28 * 12
MHA-29	Horn Antenna 26.5-40GHz	ETS LINDGREN	3160-10	00152399	RE	2016/09/28 * 12
MPA-22	Pre Amplifier	MITEQ, Inc	AMF-6F-2600400-3 3-8P / AMF-4F-2600400-3 3-8P	1871355 /1871328	RE	2016/09/06 * 12
MTR-08	Test Receiver	Rohde & Schwarz	ESCI	100767	RE/CE	2016/09/15 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	1915	RE	2016/10/15 * 12
MLA-22	Logperiodic Antenna(200-1000MHz)	Schwarzbeck	VUSLP9111B	911B-191	RE	2016/01/30 * 12
MCC-51	Coaxial cable	UL Japan	-	-	RE	2016/07/26 * 12
MAT-70	Attenuator(6dB)	Agilent	8491A-006	MY52460153	RE	2016/04/05 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	260834	RE	2016/03/24 * 12
MLS-23	LISN(AMN)	Schwarzbeck	NSLK8127	8127-729	CE(AE)	2016/07/07 * 12
MLS-24	LISN(AMN)	Schwarzbeck	NSLK8127	8127-730	CE(EUT)	2016/07/11 * 12
MTA-31	Terminator	TME	CT-01	-	CE	2016/01/12 * 12
MCC-112	Coaxial cable	Fujikura/Suhner/TSJ	5D-2W(10m)/SFM1 41(3m)/sucoform14 1-PE(1m)/421-010(1 .5m)/RFM-E321(Sw itcher)	-/00640	CE	2016/07/26 * 12
MAT-66	Attenuator(13dB)	JFW Industries, Inc.	50FP-013H2 N	-	CE	2016/01/14 * 12

### UL Japan, Inc.

#### Ise EMC Lab.

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**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 test  
                      RE: Radiated Emission test  
                      AT: Antenna Terminal Conducted test**