

APPENDIX 2: Data of EMI test

6dB Bandwidth

Test place	UL Japan, Inc. Shonan EMC Lab.	No.3 Shielded Room
Date	April 27, 2010	
Temperature / Humidity	23deg.C. , 45%	
Engineer	Hikaru Shirasawa	
Mode	Trasmitting(Tx)	

Frequency [MHz]	6dB Bandwidth [MHz]	Limit [kHz]
2405	0.895	>500
2436	0.873	>500
2477	0.896	>500

6dB Bandwidth

Tx, 2405MHz	
6db1_IMG_Low Agilent Ref 107 dBμV Atten 10 dB Peak Log 10 dB/ LgAv M1 S2 Center 2.405 000 GHz Res BW 100 kHz VBW 300 kHz Span 10 MHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 1.3685 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 29.671 kHz x dB Bandwidth 895.330 kHz	
Tx, 2436MHz	
6db1_IMG_Mid Agilent Ref 107 dBμV Atten 10 dB Peak Log 10 dB/ LgAv M1 S2 Center 2.436 000 GHz Res BW 100 kHz VBW 300 kHz Span 10 MHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 1.7486 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 139.036 kHz x dB Bandwidth 873.295 kHz	
Tx, 2477MHz	
6db1_IMG_High Agilent Ref 107 dBμV Atten 10 dB Peak Log 10 dB/ LgAv M1 S2 Center 2.477 000 GHz Res BW 100 kHz VBW 300 kHz Span 10 MHz Sweep 1.04 ms (1201 pts) Occupied Bandwidth 2.0705 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 193.463 kHz x dB Bandwidth 895.902 kHz	

UL Japan, Inc.
Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Peak Output Power (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date April 27, 2010
Temperature / Humidity 23deg.C. , 45%
Engineer Hikaru Shirasawa
Mode Transmitting(Tx)

Ch	Freq.	P/M(PK) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
Low	2405.0	-10.40	0.76	9.98	0.34	1.08	30.00	1000.00	29.66
Mid	2436.0	-10.90	0.74	9.98	-0.18	0.96	30.00	1000.00	30.18
High	2477.0	-11.30	0.74	9.98	-0.58	0.87	30.00	1000.00	30.58

Sample Calculation:

Result = Reading + Cable Loss + Atten. Loss

* In the above table, factor 0.0dB represents no use of Atten. and/or Filter.

*The test result is rounded off to one or two decimal places, so some differences might be observed.

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Radiated Emission

Test place : UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date : April 27, 2010
 Temperature / Humidity : 25deg.C., 34%
 Engineer : Kenichi Adachi (above 1GHz) Hikaru Shirasawa (below 1GHz)
 Mode : Tx, 2405 MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	36.062	QP	23.5	16.1	6.6	32.1	14.1	40.0	25.9	100	347	
Hori.	120.025	QP	23.5	13.4	7.3	32.1	12.1	43.5	31.4	100	0	
Hori.	800.592	QP	30.9	20.7	10.4	31.6	30.4	46.0	15.6	100	225	
Vert.	35.999	QP	23.4	16.1	6.6	32.1	14.0	40.0	26.0	100	300	
Vert.	120.017	QP	23.4	13.4	7.3	32.1	12.0	43.5	31.5	100	144	
Vert.	800.592	QP	24.9	20.7	10.4	31.6	24.4	46.0	21.6	194	122	
Hori.	1601.339	PK	52.7	25.2	2.7	40.1	40.5	73.9	33.4	100	146	
Hori.	2355.691	PK	59.6	27.5	3.3	40.2	50.2	73.9	23.7	146	30	
Hori.	2390.000	PK	68.6	27.6	3.3	40.2	59.3	73.9	14.6	116	38	
Hori.	2400.000	PK	78.1	27.6	3.4	40.2	68.9	73.9	5.0	116	38	
Hori.	3205.388	PK	50.9	28.7	4.8	41.1	43.3	73.9	30.6	122	339	
Hori.	4810.000	PK	49.3	30.7	5.4	40.1	45.3	73.9	28.6	145	0	
Hori.	7215.000	PK	54.3	36.0	6.6	38.3	58.6	73.9	15.3	136	5	
Hori.	9620.000	PK	45.0	38.4	7.6	37.3	53.7	73.9	20.2	100	0	noise floor level
Hori.	24050.000	PK	45.0	39.7	7.4	46.8	45.3	73.9	28.6	100	0	noise floor level
Vert.	1601.339	PK	52.0	25.2	2.7	40.1	39.8	73.9	34.1	120	207	
Vert.	2355.691	PK	55.3	27.5	3.3	40.2	45.9	73.9	28.0	145	359	
Vert.	2390.000	PK	61.2	27.6	3.3	40.2	51.9	73.9	22.0	135	0	
Vert.	2400.000	PK	73.3	27.6	3.4	40.2	64.1	73.9	9.8	135	0	
Vert.	3205.388	PK	51.0	28.7	4.8	41.1	43.4	73.9	30.5	146	91	
Vert.	4810.000	PK	48.4	30.7	5.4	40.1	44.4	73.9	29.5	100	356	
Vert.	7215.000	PK	53.1	36.0	6.6	38.3	57.4	73.9	16.5	148	342	
Vert.	9620.000	PK	44.9	38.4	7.6	37.3	53.6	73.9	20.3	100	0	noise floor level
Vert.	24050.000	PK	44.9	39.7	7.4	46.8	45.2	73.9	28.7	100	0	noise floor level
Hori.	1601.339	AV	48.4	25.2	2.7	40.1	36.2	53.9	17.7	100	146	
Hori.	2355.691	AV	50.3	27.5	3.3	40.2	40.9	53.9	13.0	146	30	
Hori.	2390.000	AV	38.8	27.6	3.3	40.2	29.5	53.9	24.4	116	38	
Hori.	2400.000	AV	48.7	27.6	3.4	40.2	39.5	53.9	14.4	116	38	
Hori.	3205.388	AV	45.4	28.7	4.8	41.1	37.8	53.9	16.1	122	339	
Hori.	4810.000	AV	39.2	30.7	5.4	40.1	35.2	53.9	18.7	145	0	
Hori.	7215.000	AV	45.0	36.0	6.6	38.3	49.3	53.9	4.6	136	5	
Hori.	9620.000	AV	32.2	38.4	7.6	37.3	40.9	53.9	13.0	100	0	noise floor level
Hori.	24050.000	AV	31.7	39.7	7.4	46.8	32.0	53.9	21.9	100	0	noise floor level
Vert.	1601.339	AV	46.2	25.2	2.7	40.1	34.0	53.9	19.9	120	207	
Vert.	2355.691	AV	46.3	27.5	3.3	40.2	36.9	53.9	17.0	145	359	
Vert.	2390.000	AV	35.1	27.6	3.3	40.2	25.8	53.9	28.1	135	0	
Vert.	2400.000	AV	44.0	27.6	3.4	40.2	34.8	53.9	19.1	135	0	
Vert.	3205.388	AV	46.3	28.7	4.8	41.1	38.7	53.9	15.2	146	91	
Vert.	4810.000	AV	37.5	30.7	5.4	40.1	33.5	53.9	20.4	100	356	
Vert.	7215.000	AV	44.6	36.0	6.6	38.3	48.9	53.9	5.0	148	342	
Vert.	9620.000	AV	32.2	38.4	7.6	37.3	40.9	53.9	13.0	100	0	noise floor level
Vert.	24050.000	AV	31.8	39.7	7.4	46.8	32.1	53.9	21.8	100	0	noise floor level

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

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

*The 10th harmonic was not seen so the result was its base noise level.

Distance factor: 13GHz-40GHz 20log(3.0m/1.0m)= 9.5dB

20dBc Data Sheet (RBW 100kHz, VBW 300kHz)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori.	2405.000	PK	105.9	27.6	3.4	40.2	96.7	-	-	Carrier
Hori.	2400.000	PK	59.6	27.6	3.4	40.2	50.4	76.7	26.3	
Vert.	2405.000	PK	102.4	27.6	3.4	40.2	93.2	-	-	Carrier
Vert.	2400.000	PK	54.7	27.6	3.4	40.2	45.5	73.2	27.7	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

Radiated Emission

Test place : UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date : April 27, 2010
 Temperature / Humidity : 25deg.C., 34%
 Engineer : Kenichi Adachi (above 1GHz) Hikaru Shirasawa (below 1GHz)
 Mode : Tx, 2436 MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	35.999	QP	23.4	16.1	6.6	32.1	14.0	40.0	26.0	100	0	
Hori.	120.002	QP	23.5	13.4	7.3	32.1	12.1	43.5	31.4	100	358	
Hori.	810.751	QP	31.5	20.8	10.4	31.5	31.2	46.0	14.8	106	219	
Vert.	36.005	QP	23.3	16.1	6.6	32.1	13.9	40.0	26.1	100	0	
Vert.	120.002	QP	23.4	13.4	7.3	32.1	12.0	43.5	31.5	100	7	
Vert.	810.751	QP	25.3	20.8	10.4	31.5	25.0	46.0	21.0	188	132	
Hori.	1623.186	PK	54.9	25.2	2.7	40.1	42.7	73.9	31.2	138	334	
Hori.	3246.594	PK	51.3	28.7	4.7	41.1	43.6	73.9	30.3	100	324	
Hori.	4872.000	PK	47.9	30.8	5.5	40.1	44.1	73.9	29.8	150	0	
Hori.	7308.000	PK	57.7	36.0	6.7	38.4	62.0	73.9	11.9	172	1	
Hori.	9744.000	PK	44.6	38.4	7.6	37.4	53.2	73.9	20.7	100	0	noise floor level
Hori.	24360.000	PK	45.7	40.1	7.4	46.6	46.6	73.9	27.3	100	0	noise floor level
Vert.	1623.186	PK	55.2	25.2	2.7	40.1	43.0	73.9	30.9	100	83	
Vert.	3246.594	PK	51.6	28.7	4.7	41.1	43.9	73.9	30.0	109	0	
Vert.	4872.000	PK	48.9	30.8	5.5	40.1	45.1	73.9	28.8	100	0	
Vert.	7308.000	PK	55.2	36.0	6.7	38.4	59.5	73.9	14.4	144	342	
Vert.	9744.000	PK	44.5	38.4	7.6	37.4	53.1	73.9	20.8	100	0	noise floor level
Vert.	24360.000	PK	45.8	40.1	7.4	46.6	46.7	73.9	27.2	100	0	noise floor level
Hori.	1623.186	AV	50.1	25.2	2.7	40.1	37.9	53.9	16.0	138	334	
Hori.	3246.594	AV	47.1	28.7	4.7	41.1	39.4	53.9	14.5	100	324	
Hori.	4872.000	AV	37.2	30.8	5.5	40.1	33.4	53.9	20.5	150	0	
Hori.	7308.000	AV	49.3	36.0	6.7	38.4	53.6	53.9	0.3	172	1	
Hori.	9744.000	AV	32.0	38.4	7.6	37.4	40.6	53.9	13.3	100	0	noise floor level
Hori.	24360.000	AV	33.6	40.1	7.4	46.6	34.5	53.9	19.4	100	0	noise floor level
Vert.	1623.186	AV	51.2	25.2	2.7	40.1	39.0	53.9	14.9	100	83	
Vert.	3246.594	AV	47.8	28.7	4.7	41.1	40.1	53.9	13.8	109	0	
Vert.	4872.000	AV	38.8	30.8	5.5	40.1	35.0	53.9	18.9	100	0	
Vert.	7308.000	AV	46.9	36.0	6.7	38.4	51.2	53.9	2.7	144	342	
Vert.	9744.000	AV	32.0	38.4	7.6	37.4	40.6	53.9	13.3	100	0	noise floor level
Vert.	24360.000	AV	33.7	40.1	7.4	46.6	34.6	53.9	19.3	100	0	noise floor level

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

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

*The 10th harmonic was not seen so the result was its base noise level.

Distance factor: 13GHz-40GHz 20log(3.0m/1.0m)= 9.5dB

Radiated Emission

Test place : UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date : April 27, 2010 April 27, 2010
 Temperature / Humidity : 25deg.C., 34% 23deg.C., 45%
 Engineer : Kenichi Adachi Hikaru Shirasawa
 (above 1GHz) (below 1GHz)
 Mode : Tx, 2477 MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	35.999	QP	23.8	16.1	6.6	32.1	14.4	40.0	25.6	289	141	
Hori.	120.000	QP	23.1	13.4	7.3	32.1	11.7	43.5	31.8	150	41	
Hori.	824.017	QP	34.5	21.0	10.4	31.5	34.4	46.0	11.6	100	220	
Vert.	36.002	QP	23.5	16.1	6.6	32.1	14.1	40.0	25.9	280	36	
Vert.	120.001	QP	23.1	13.4	7.3	32.1	11.7	43.5	31.8	100	358	
Vert.	824.017	QP	26.3	21.0	10.4	31.5	26.2	46.0	19.8	185	129	
Hori.	1650.685	PK	56.9	25.3	2.8	40.2	44.8	73.9	29.1	100	138	
Hori.	2483.500	PK	73.9	27.9	3.5	40.1	65.2	73.9	8.7	114	336	
Hori.	3299.889	PK	48.4	28.8	4.8	41.1	40.9	73.9	33.0	118	322	
Hori.	4954.000	PK	49.5	31.1	5.6	40.0	46.2	73.9	27.7	149	1	
Hori.	7431.000	PK	54.6	35.9	7.1	38.6	59.0	73.9	14.9	167	31	
Hori.	9908.000	PK	49.3	38.3	7.8	37.5	57.9	73.9	16.0	100	0	noise floor level
Hori.	24770.000	PK	45.5	40.5	7.4	46.6	46.8	73.9	27.1	100	0	noise floor level
Vert.	1650.685	PK	59.6	25.3	2.8	40.2	47.5	73.9	26.4	115	288	
Vert.	2483.500	PK	73.3	27.9	3.5	40.1	64.6	73.9	9.3	100	0	
Vert.	3299.889	PK	48.7	28.8	4.8	41.1	41.2	73.9	32.7	111	0	
Vert.	4954.000	PK	49.5	31.1	5.6	40.0	46.2	73.9	27.7	167	57	
Vert.	7431.000	PK	53.2	35.9	7.1	38.6	57.6	73.9	16.3	106	349	
Vert.	9908.000	PK	49.2	38.3	7.8	37.5	57.8	73.9	16.1	100	0	noise floor level
Vert.	24770.000	PK	45.6	40.5	7.4	46.6	46.9	73.9	27.0	100	0	noise floor level
Hori.	1650.685	AV	54.2	25.3	2.8	40.2	42.1	53.9	11.8	100	138	
Hori.	2483.500	AV	42.4	27.9	3.5	40.1	33.7	53.9	20.2	114	336	
Hori.	3299.889	AV	44.2	28.8	4.8	41.1	36.7	53.9	17.2	118	322	
Hori.	4954.000	AV	35.7	31.1	5.6	40.0	32.4	53.9	21.5	149	1	
Hori.	7431.000	AV	45.0	35.9	7.1	38.6	49.4	53.9	4.5	167	31	
Hori.	9908.000	AV	36.8	38.3	7.8	37.5	45.4	53.9	8.5	100	0	noise floor level
Hori.	24770.000	AV	32.8	40.5	7.4	46.6	34.1	53.9	19.8	100	0	noise floor level
Vert.	1650.685	AV	57.9	25.3	2.8	40.2	45.8	53.9	8.1	115	288	
Vert.	2483.500	AV	42.3	27.9	3.5	40.1	33.6	53.9	20.3	100	0	
Vert.	3299.889	AV	45.9	28.8	4.8	41.1	38.4	53.9	15.5	111	0	
Vert.	4954.000	AV	36.1	31.1	5.6	40.0	32.8	53.9	21.1	167	57	
Vert.	7431.000	AV	41.7	35.9	7.1	38.6	46.1	53.9	7.8	106	349	
Vert.	9908.000	AV	36.6	38.3	7.8	37.5	45.2	53.9	8.7	100	0	noise floor level
Vert.	24770.000	AV	32.9	40.5	7.4	46.6	34.2	53.9	19.7	100	0	noise floor level

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 13GHz)) - Gain(Amplifier)

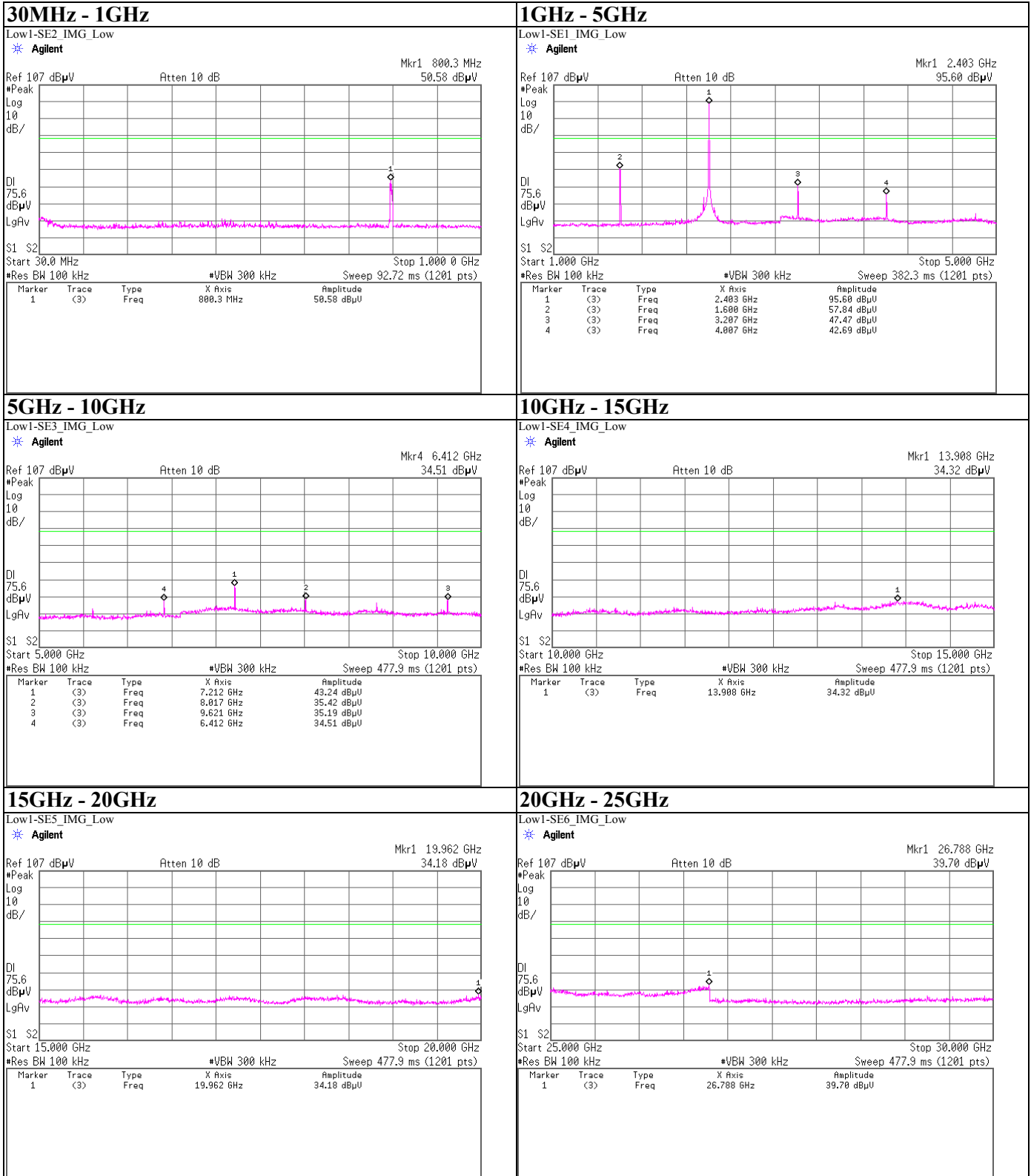
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

*The 10th harmonic was not seen so the result was its base noise level.

Distance factor: 13GHz-40GHz 20log(3.0m/1.0m)= 9.5dB

Spurious emission (Conducted)

Tx, 2405MHz

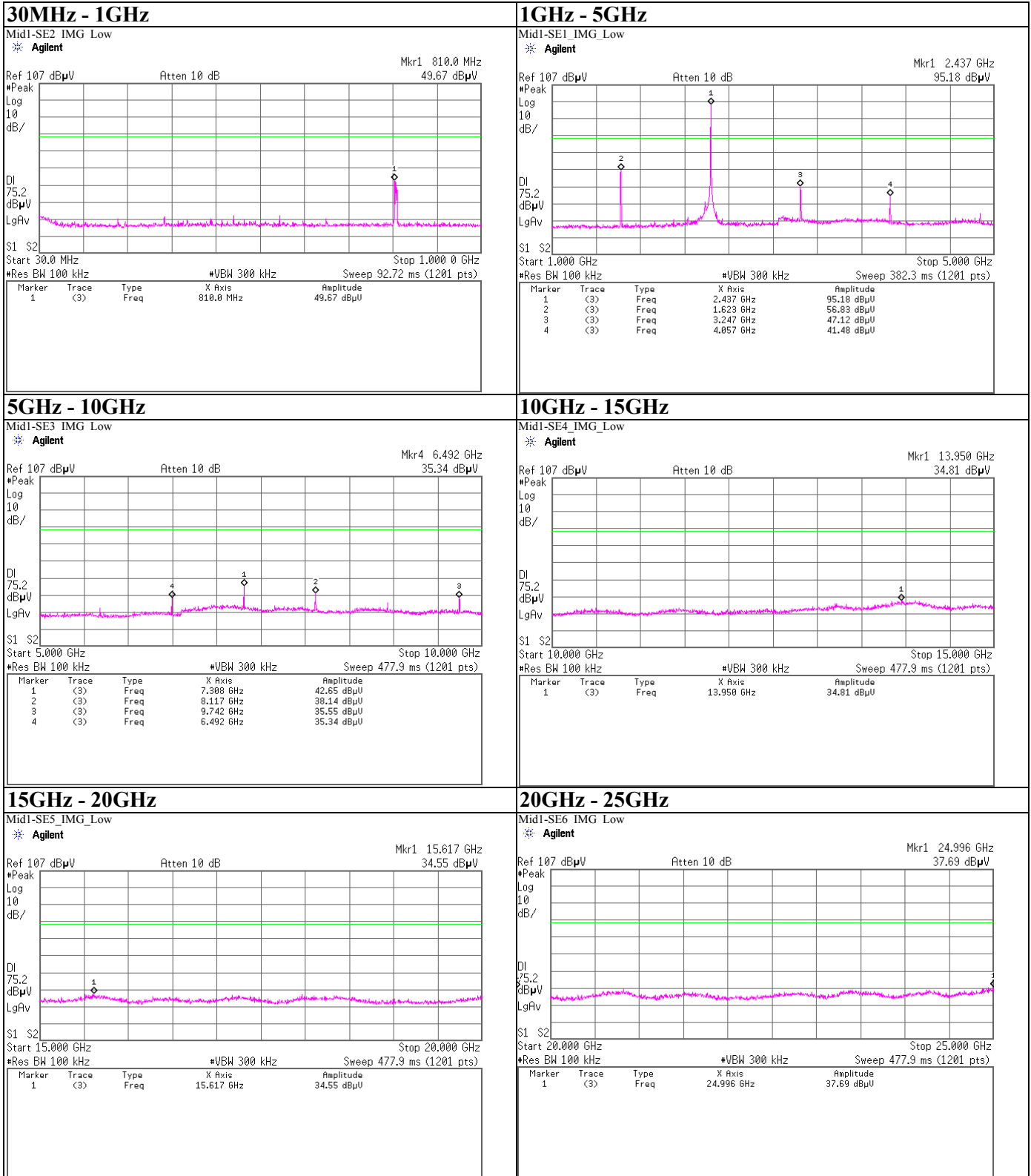


UL Japan, Inc.
Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

Tx, 2436MHz

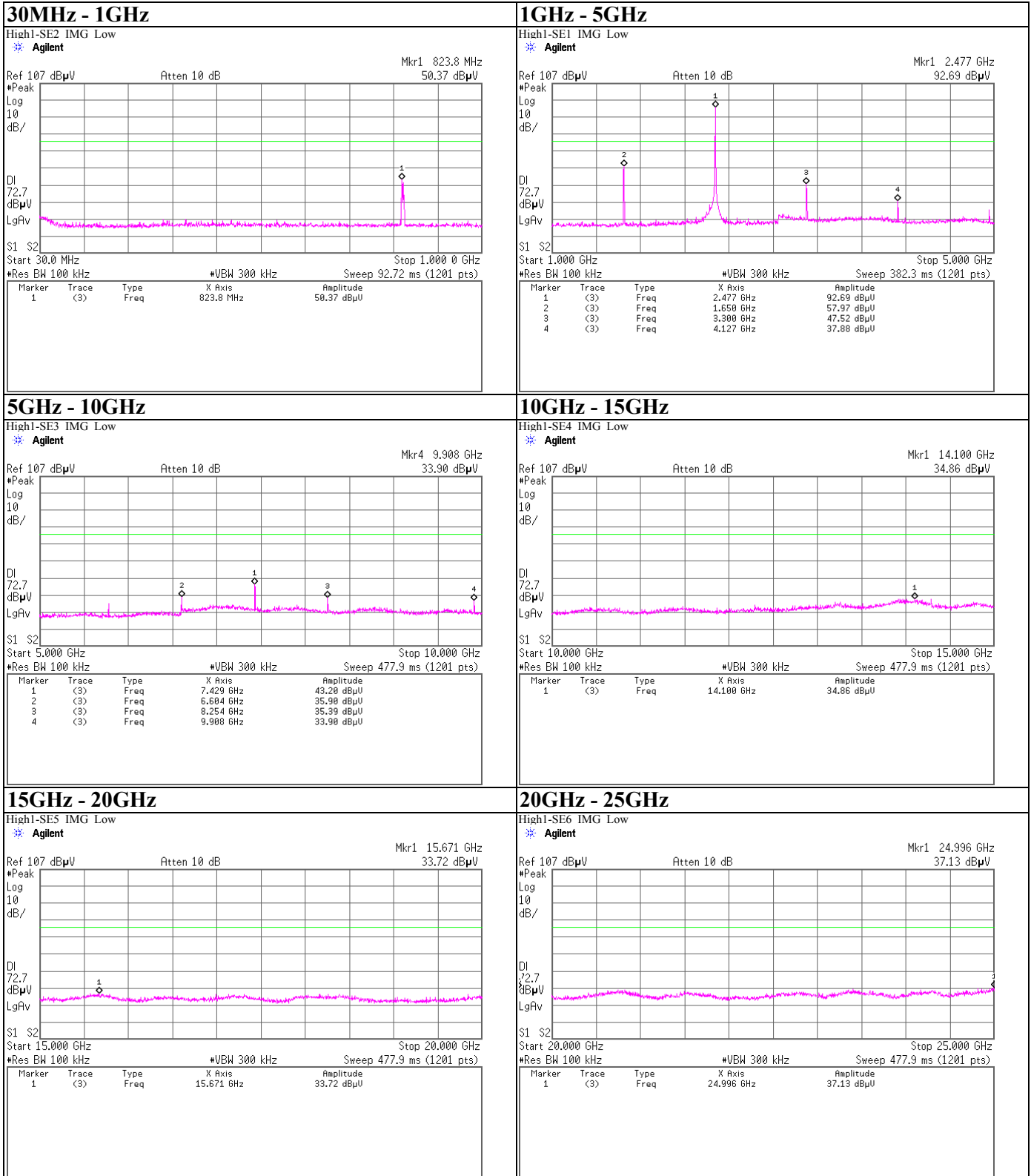


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Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

Tx, 2477MHz

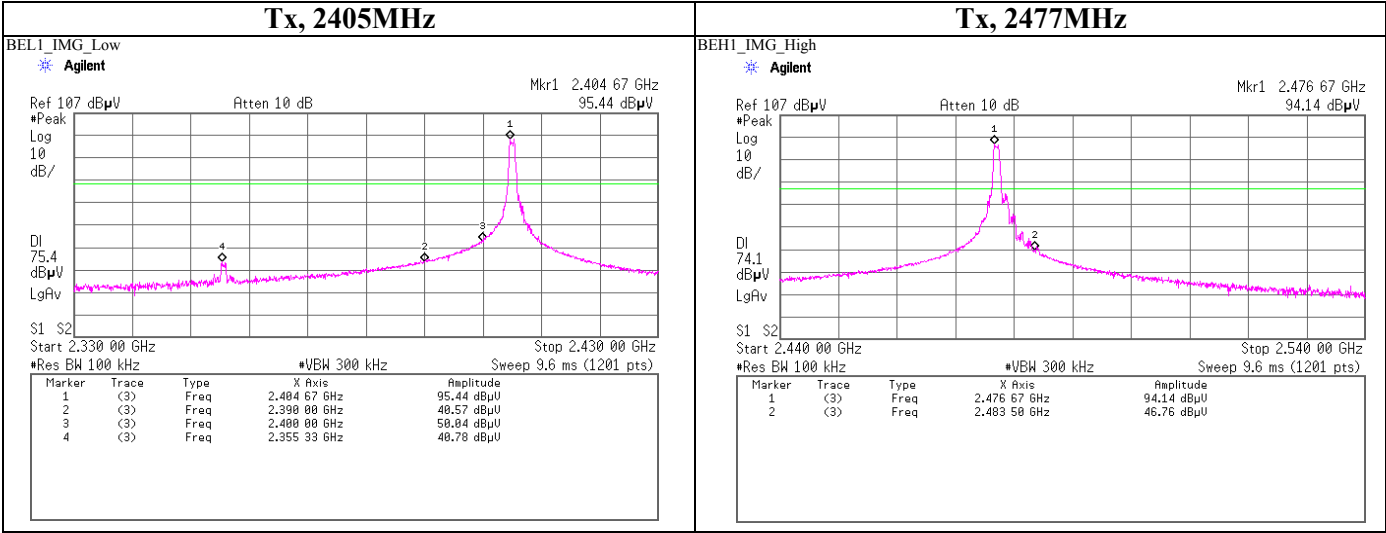


UL Japan, Inc.
 Shonan EMC Lab.

1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
 Telephone : +81 463 50 6400
 Facsimile : +81 463 50 6401

Spurious emission (Conducted)

Band Edge compliance



FCC ID : GHL0001
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Power Density

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date April 27, 2010
Temperature / Humidity 23deg.C. , 45%
Engineer Hikaru Shirasawa
Mode Transmitting(Tx)

Ch. Freq.	Freq.	Reading	Cable Loss	Atten.	Result	Limit	Margin
[MHz]	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[dBm]	[dB]
2405	2404.87	-21.05	1.54	9.98	-9.53	8.00	17.53
2436	2435.87	-21.46	1.52	9.98	-9.96	8.00	17.96
2477	2476.87	-21.87	1.53	9.98	-10.36	8.00	18.36

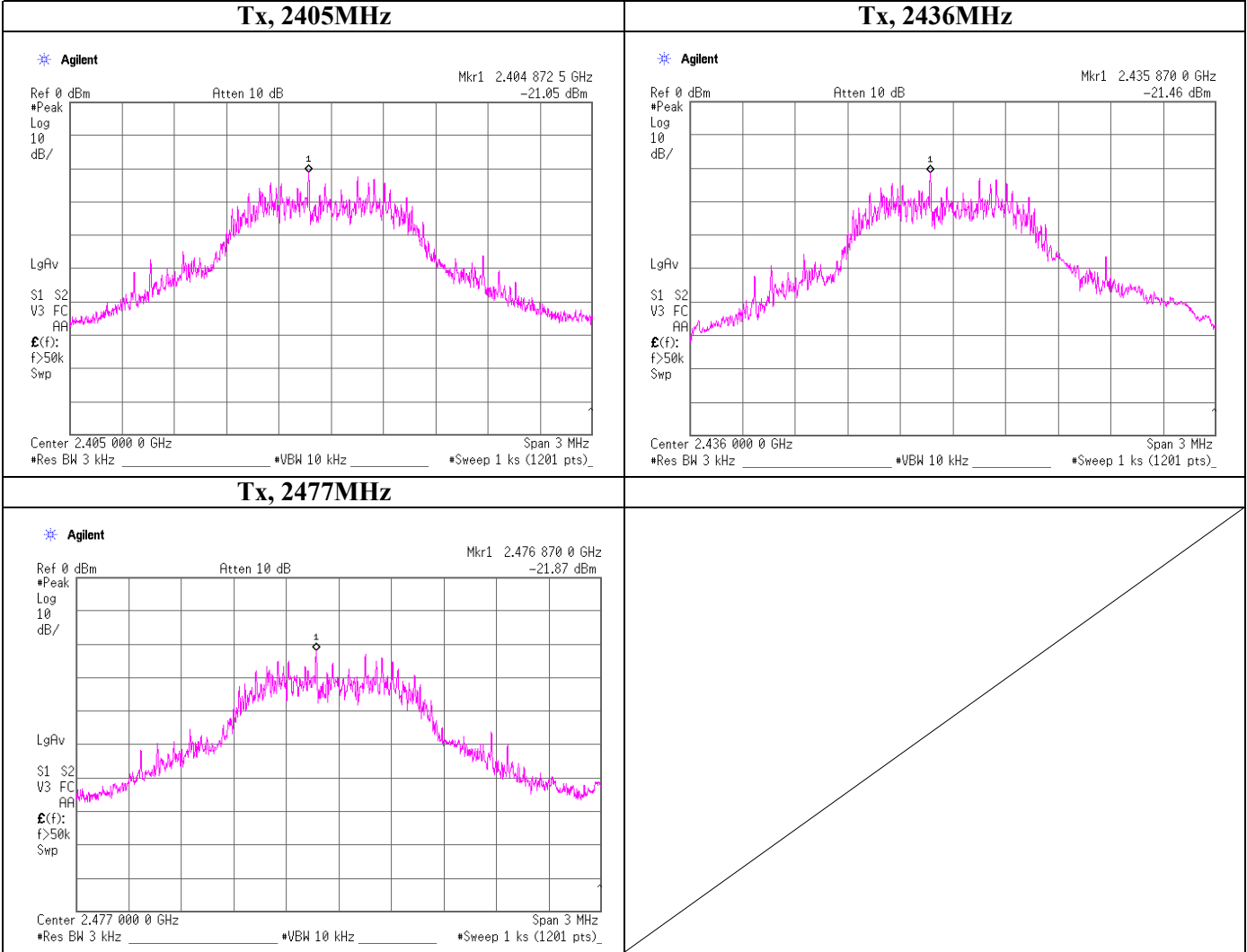
Sample Calculation:

Result = Reading + Cable Loss (Including customer's cable loss)+ Attenuator

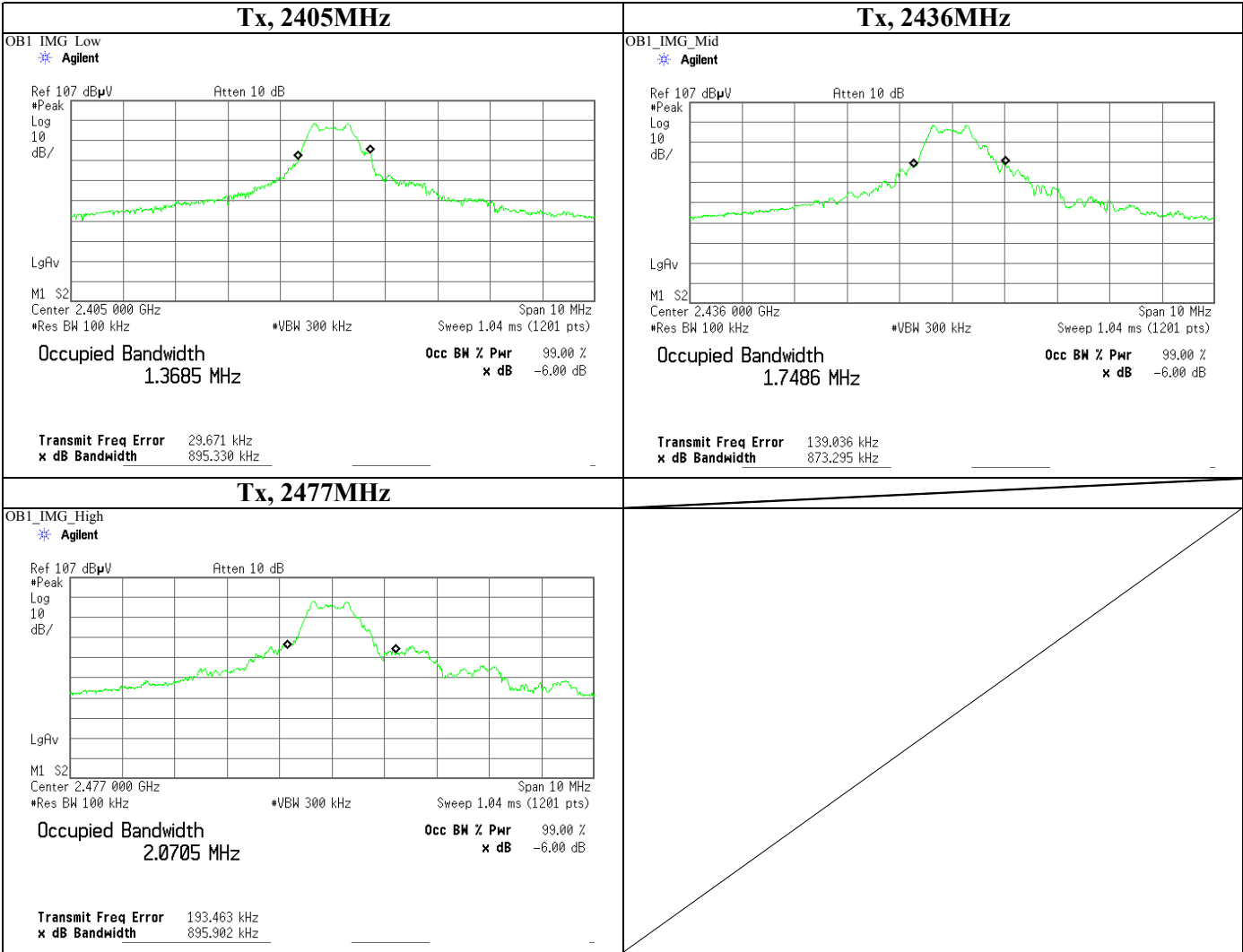
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Power Density



99% Occupied Bandwidth



APPENDIX 3 Test Instruments

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SAF-06	Pre Amplifier	TOYO Corporation	TPA0118-36	1440491	RE	2010/03/09 * 12
SCC-G03	Coaxial Cable	Suhner	SUCOFLEX 104A	46499/4A	RE	2010/04/16 * 12
SCC-G23	Coaxial Cable	Suhner	SUCOFLEX 104	297342/4	RE	2009/05/27 * 12
SFL-02	Highpass Filter	MICRO-TRONICS	HPM50111	051	RE	2009/12/04 * 12
SHA-03	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-739	RE	2009/08/23 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	2010/02/09 * 12
STR-03	Test Receiver	Rohde & Schwarz	ES140	100054/040	RE	2010/04/12 * 24
SJM-04	Measure	KOMELON	KMC-36	-	RE	-
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV	-	RE	-
SCC-G17	Coaxial Cable	Suhner	SUCOFLEX 104A	46291/4A	RE	2010/03/02 * 12
SAF-08	Pre Amplifier	TOYO Corporation	HAP18-26W	00000019	RE	2010/03/02 * 12
SHA-04	Horn Antenna	ETS LINDGREN	3160-09	LM3640	RE	2010/03/29 * 12
SAF-03	Pre Amplifier	SONOMA	310N	290213	RE	2010/02/06 * 12
SAT6-03	Attenuator	JFW	50HF-006N	-	RE	2010/02/06 * 12
SBA-03	Biconical Antenna	Schwarzbeck	BBA9106	91032666	RE	2010/03/22 * 12
SCC-G1/C2/C3/C4/C5/C10/SRSE-03	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-271(RF Selector)	RE	2010/04/02 * 12
SLA-03	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0901	RE	2010/03/22 * 12
SJM-03	Measure	KOMELON	KMC-36	-	RE	-
SAEC-03(NSA)	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	RE	2009/09/18 * 12
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	AT 1,3,4,5	2010/02/02 * 12
SCC-G12	Coaxial Cable	Suhner	SUCOFLEX 102	30790/2	AT all	2010/03/09 * 12
SAT10-04	Attenuator(above1GHz)	Agilent	8493C-010	74863	ATall	2010/03/05 * 12
SPM-06	Power Meter	Anritsu	ML2495A	0850009	AT 2	2010/04/01 * 12
SPSS-01	Power Sensor	Anritsu	MA2444D	0738366	AT 2	2010/04/01 * 12
SOS-06	Humidity Indicator	A&D	AD-5681	4062118	AT all	2010/02/17 * 12

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

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

All equipment is calibrated with traceable calibrations . Each calibration is traceable to the national or international standards .

Test Item :

RE: Radiated emission,

AT: Antenna terminal conducted test

1: 6dB Bandwidth

2: Peak Output Power (Conducted)

3: Spurious emission (Conducted)

4: Power Density

5: 99% Occupied Bandwidth