

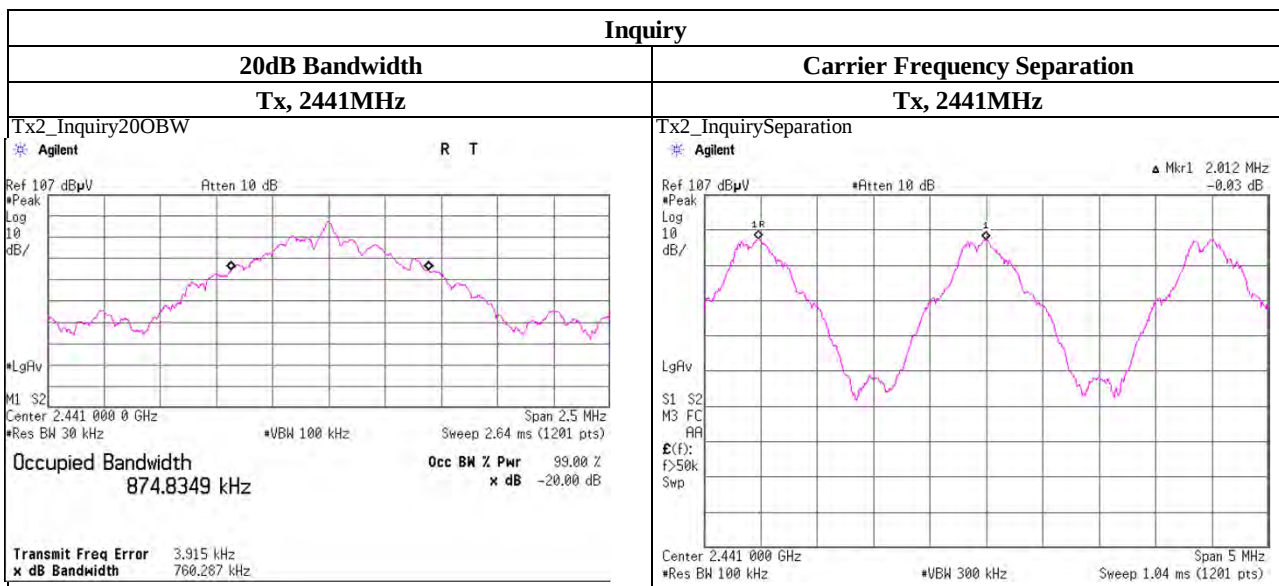
APPENDIX 1: Data of Radio tests**20dB Bandwidth and Carrier Frequency Separation**

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	February 16, 2012	February 20, 2012
Temperature / Humidity	22deg.C , 30%RH	23deg.C , 40%RH
Engineer	Hikaru Shirasawa	Wataru Kojima
Mode	Tx, Bluetooth, BDR, PRBS9	

Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency Separation [MHz]
DH5	2402.0	0.927	1.000	>= 0.618
DH5	2441.0	0.931	0.993	>= 0.621
DH5	2480.0	0.930	1.013	>= 0.620
Inquiry	2441.0	0.760	2.012	>= 0.507

Limit: Two-thirds of 20dB Bandwidth or 25kHz (whichever is greater).

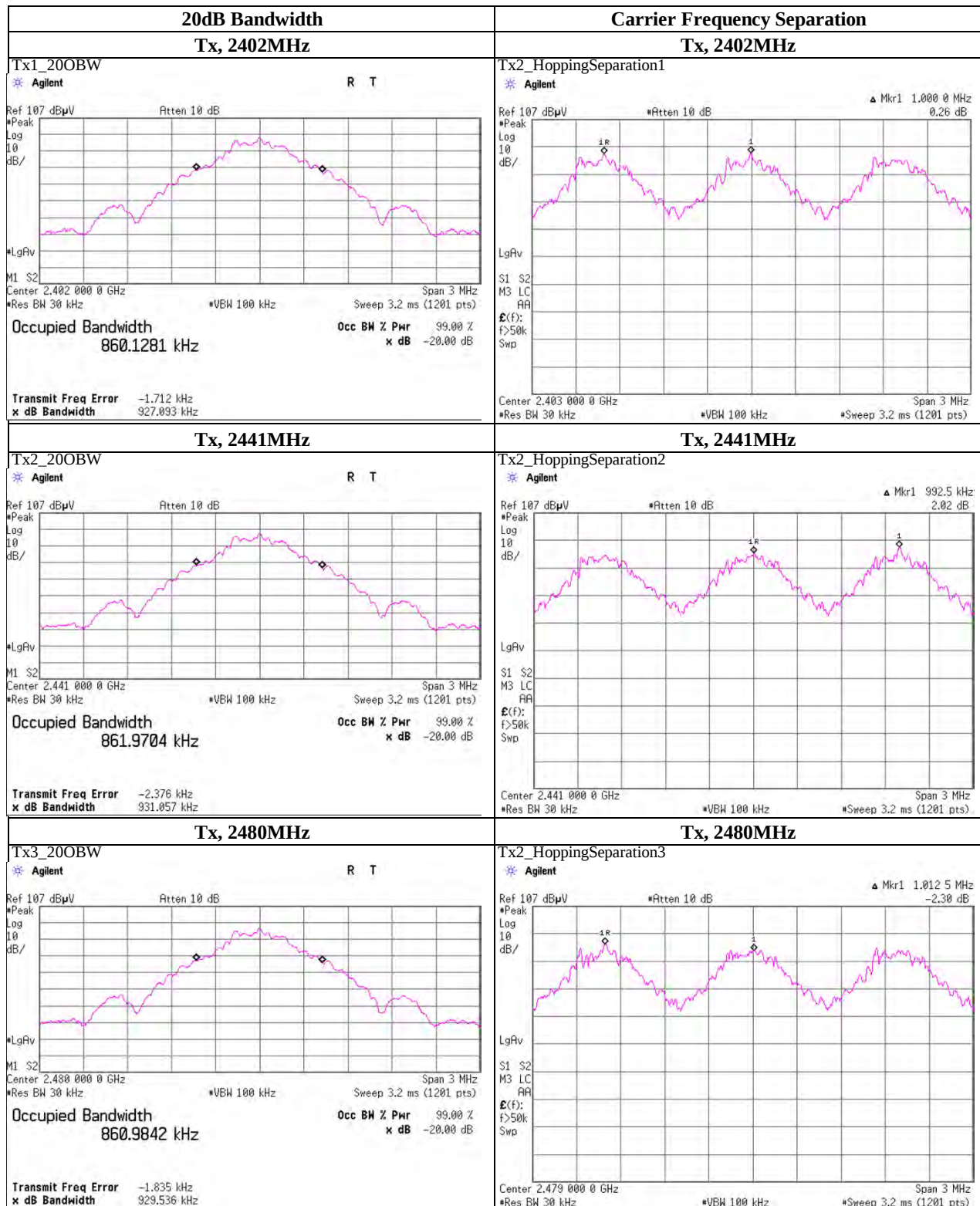
No limit applies to 20dB Bandwidth.

**UL Japan, Inc.****Shonan EMC Lab.**

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20dB Bandwidth and Carrier Frequency Separation**Tx, Bluetooth, BDR, PRBS9****UL Japan, Inc.****Shonan EMC Lab.**

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20dB Bandwidth and Carrier Frequency Separation

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
Date February 16, 2012 February 20, 2012
Temperature / Humidity 22deg.C , 30%RH 23deg.C , 40%RH
Engineer Hikaru Shirasawa Wataru Kojima
Mode Tx, Bluetooth, EDR, PRBS9

Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency Separation [MHz]
3-DH5	2402.0	1.259	1.003	>= 0.839
3-DH5	2441.0	1.287	1.005	>= 0.858
3-DH5	2480.0	1.258	1.000	>= 0.839

Limit: Two-thirds of 20dB Bandwidth or 25kHz (whichever is greater).

No limit applies to 20dB Bandwidth.

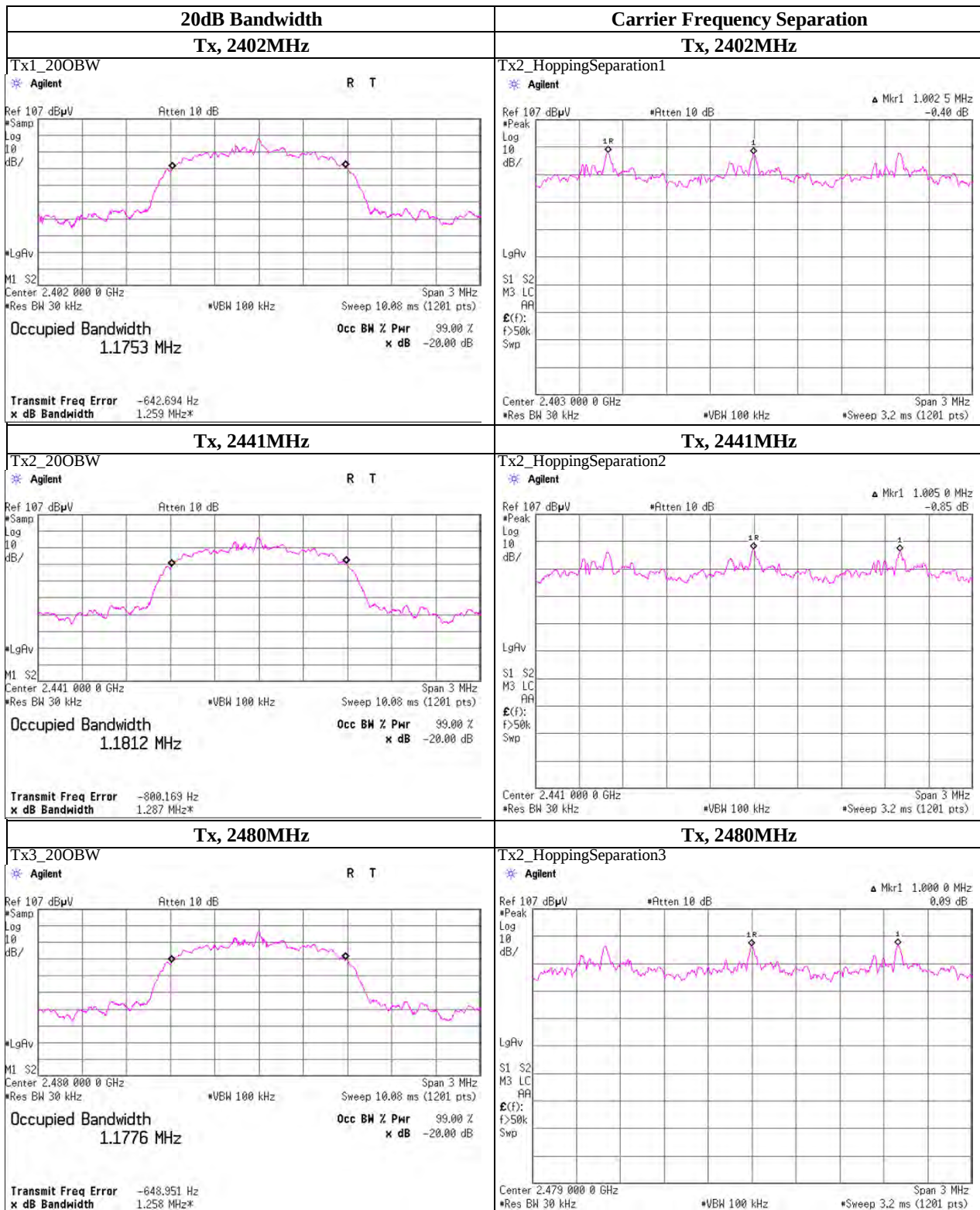
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20dB Bandwidth and Carrier Frequency Separation**Tx, Bluetooth, EDR, PRBS9****UL Japan, Inc.****Shonan EMC Lab.**

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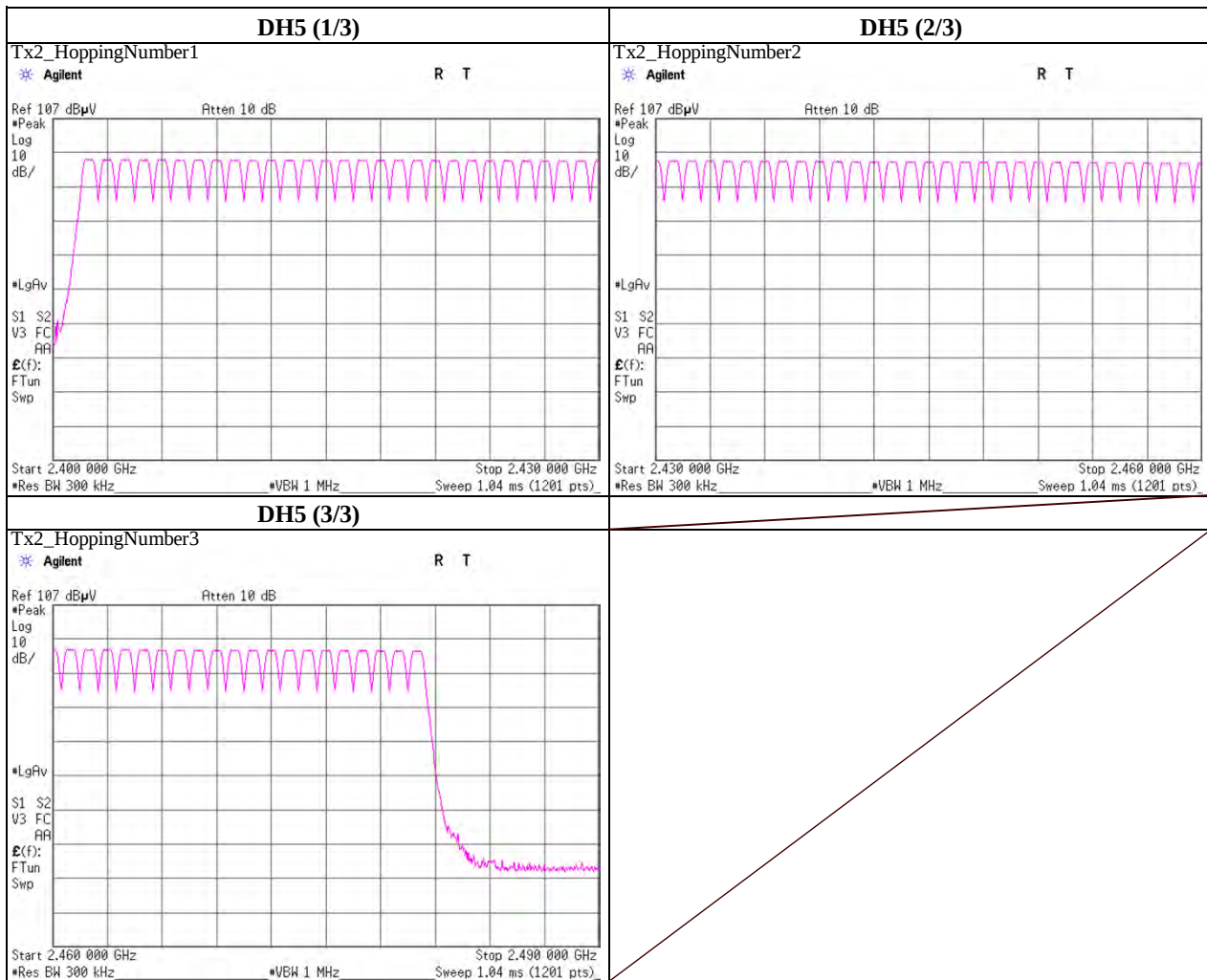
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Number of Hopping Frequency

Test place	UL Japan, Inc. Shonan EMC Lab.	No.5 Shielded Room
Date	February 16, 2012	
Temperature / Humidity	22deg.C , 30%RH	
Engineer	Hikaru Shirasawa	
Mode	Tx, Bluetooth, BDR, PRBS9	

Mode	Number of Channel [times]	Limit [times]
DH5	79	>= 15



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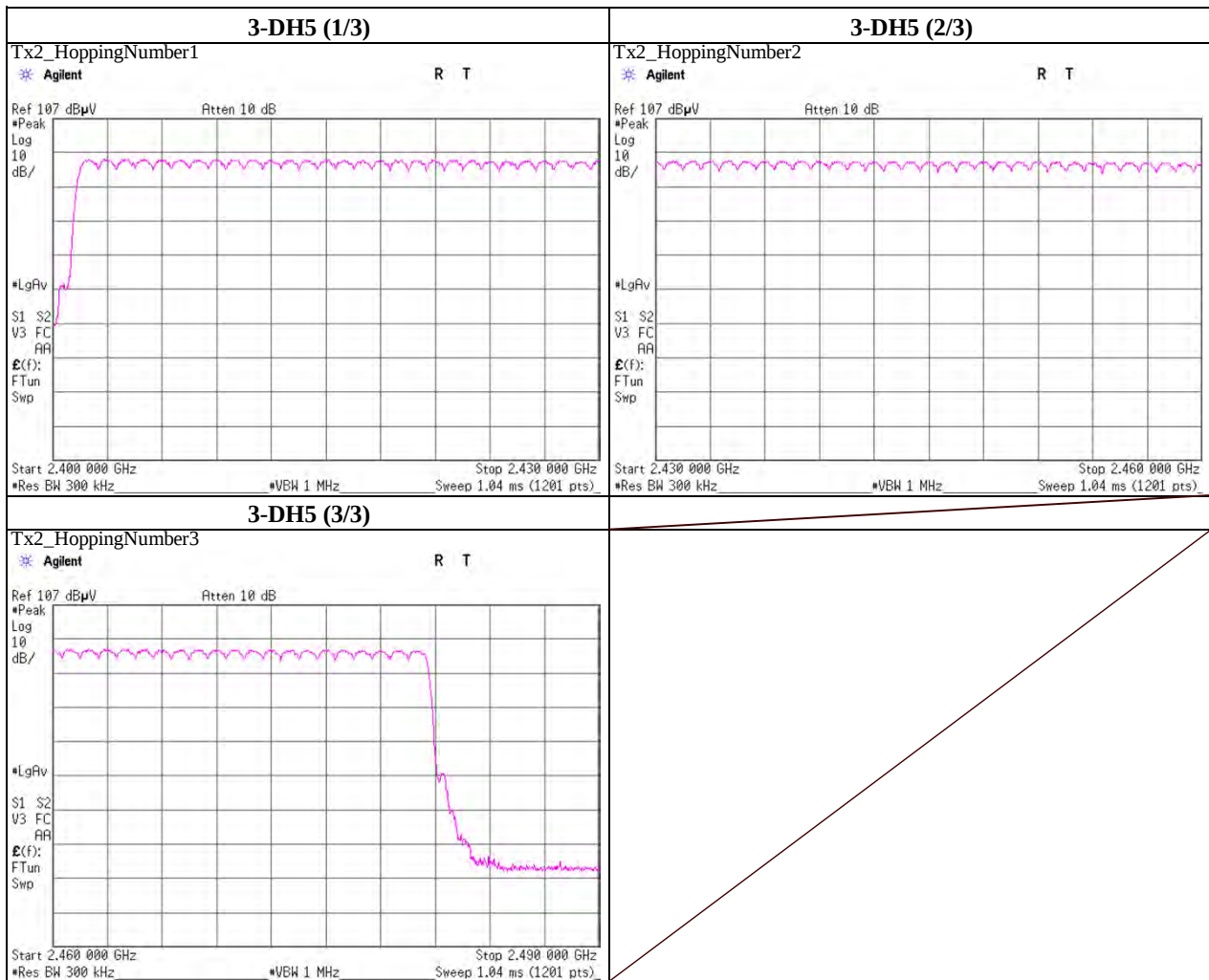
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Facsimile : +81 463 50 6401

Number of Hopping Frequency

Test place	UL Japan, Inc. Shonan EMC Lab.	No.2 Shielded Room
Date	February 16, 2012	
Temperature / Humidity	22deg.C , 30%RH	
Engineer	Hikaru Shirasawa	
Mode	Tx, Bluetooth, EDR, PRBS9	

Mode	Number of Channel [times]	Limit [times]
3-DH5	79	>= 15



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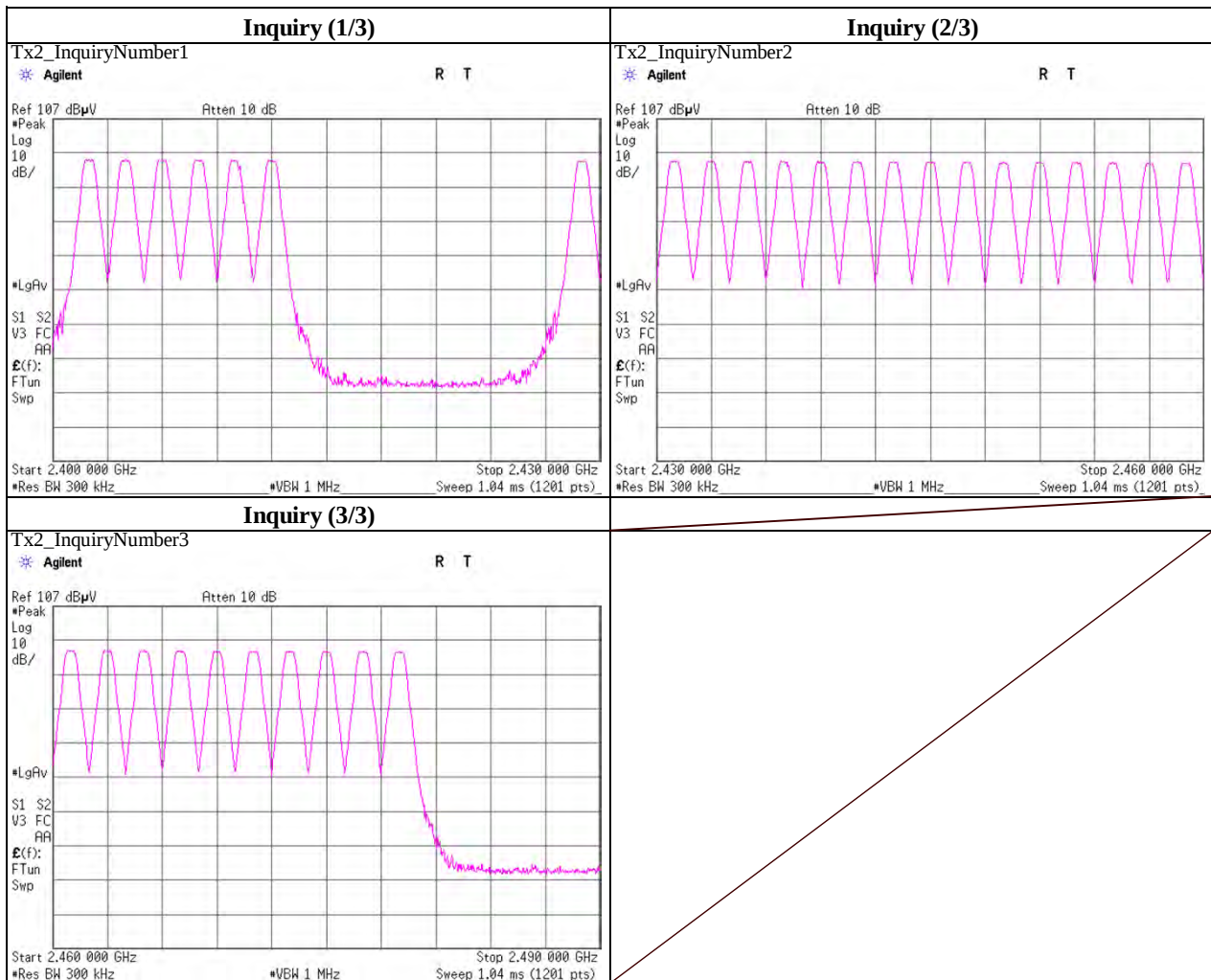
Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Number of Hopping Frequency

Test place	UL Japan, Inc. Shonan EMC Lab.	No.2 Shielded Room
Date	February 16, 2012	
Temperature / Humidity	22deg.C , 30%RH	
Engineer	Hikaru Shirasawa	
Mode	Tx, Bluetooth, EDR, Inquiry	

Mode	Number of Channel [times]	Limit [times]
Inquiry	32	>= 15



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Dwell Time

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date February 20, 2012
 Temperature / Humidity 23deg.C , 40%RH
 Engineer Wataru Kojima
 Mode Tx, Bluetooth, BDR, PRBS9

Tx, Bluetooth

Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	50.8 / 5.0 sec. x 31.6 sec. = 322 times	0.455	146	400
DH3	26.2 / 5.0 sec. x 31.6 sec. = 166 times	1.711	284	400
DH5	17.8 / 5.0 sec. x 31.6 sec. = 113 times	2.960	334	400
Inquiry	100.0 / 1.0 sec. x 12.8 sec. = 1280 times	0.152	194	400

Sample Calculation

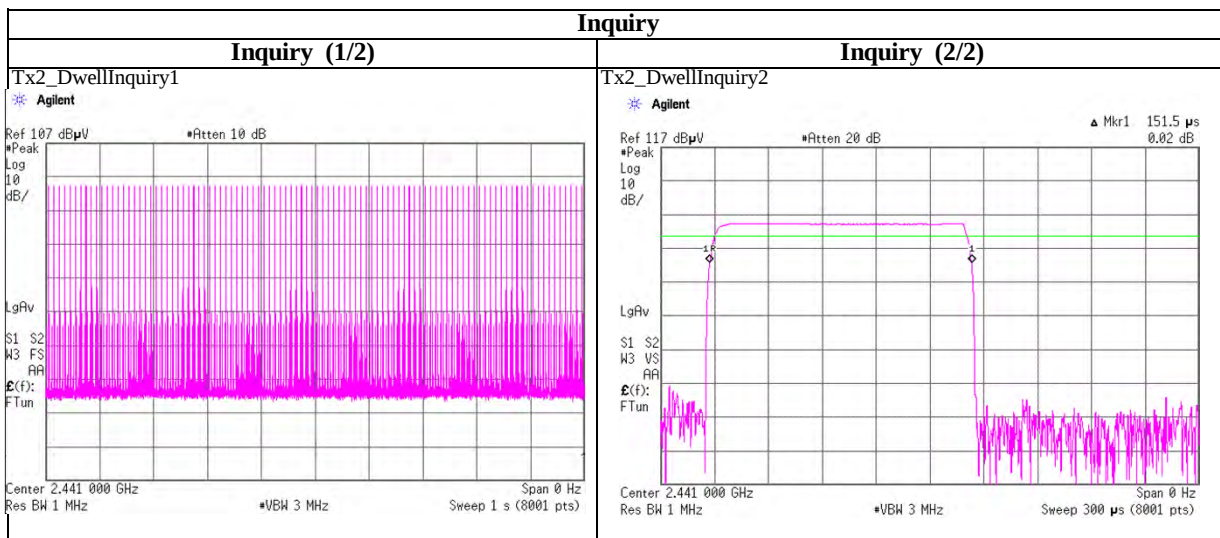
Result = Number of transmission x Length of transmission time

*Average data of 5 tests.(except Inquiry)

Mode	Sampling [times]					Average [times]
	1	2	3	4	5	
DH1	52	50	51	50	51	50.8
DH3	24	29	25	26	27	26.2
DH5	14	19	17	20	19	17.8
Inquiry	100	100	100	100	100	100.0

Sample Calculation

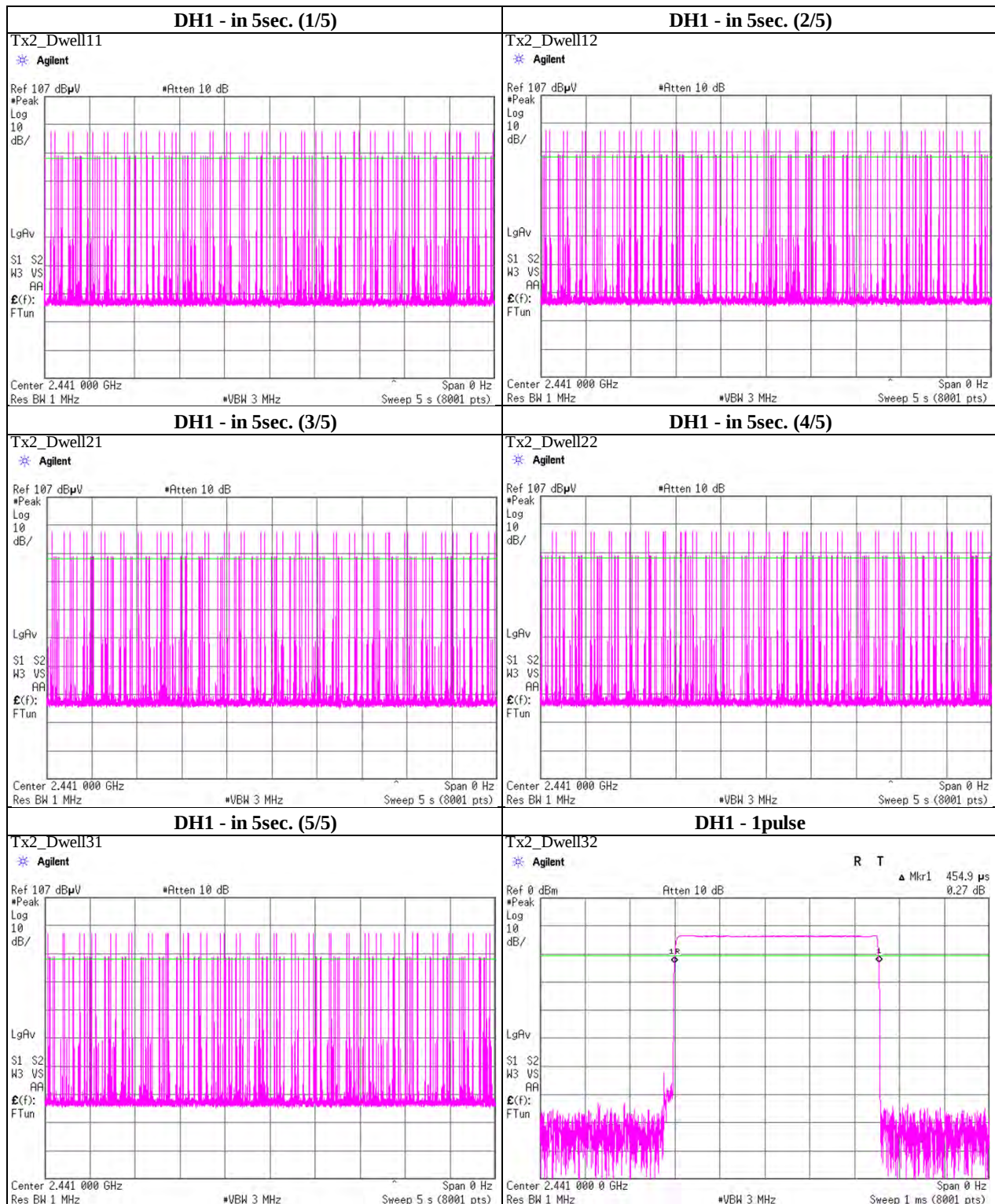
Average= Summation(Sampling 1 to 5) / 5

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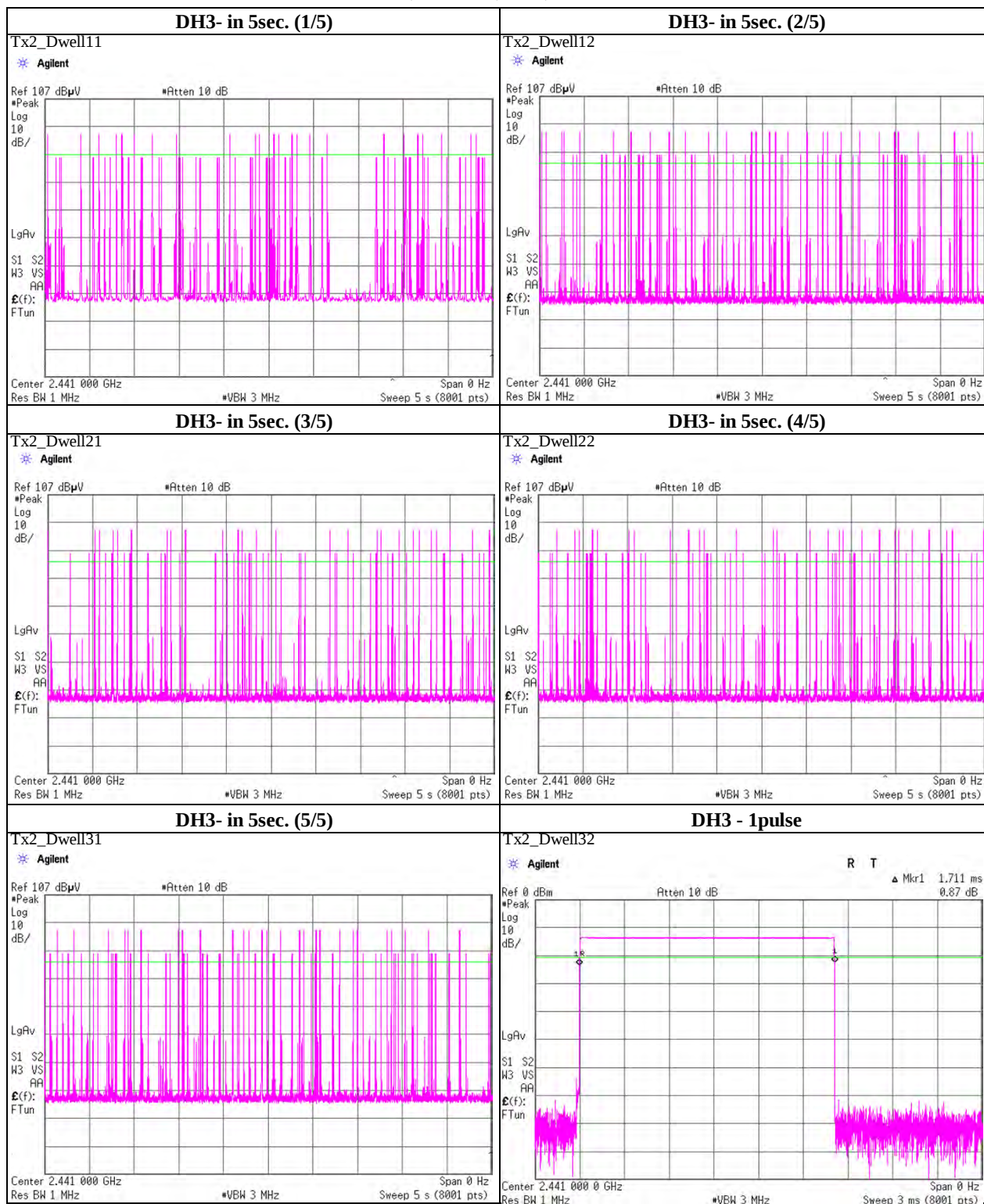
Facsimile : +81 463 50 6401

Dwell time**Tx, Bluetooth, BDR, PRBS9****UL Japan, Inc.****Shonan EMC Lab.**

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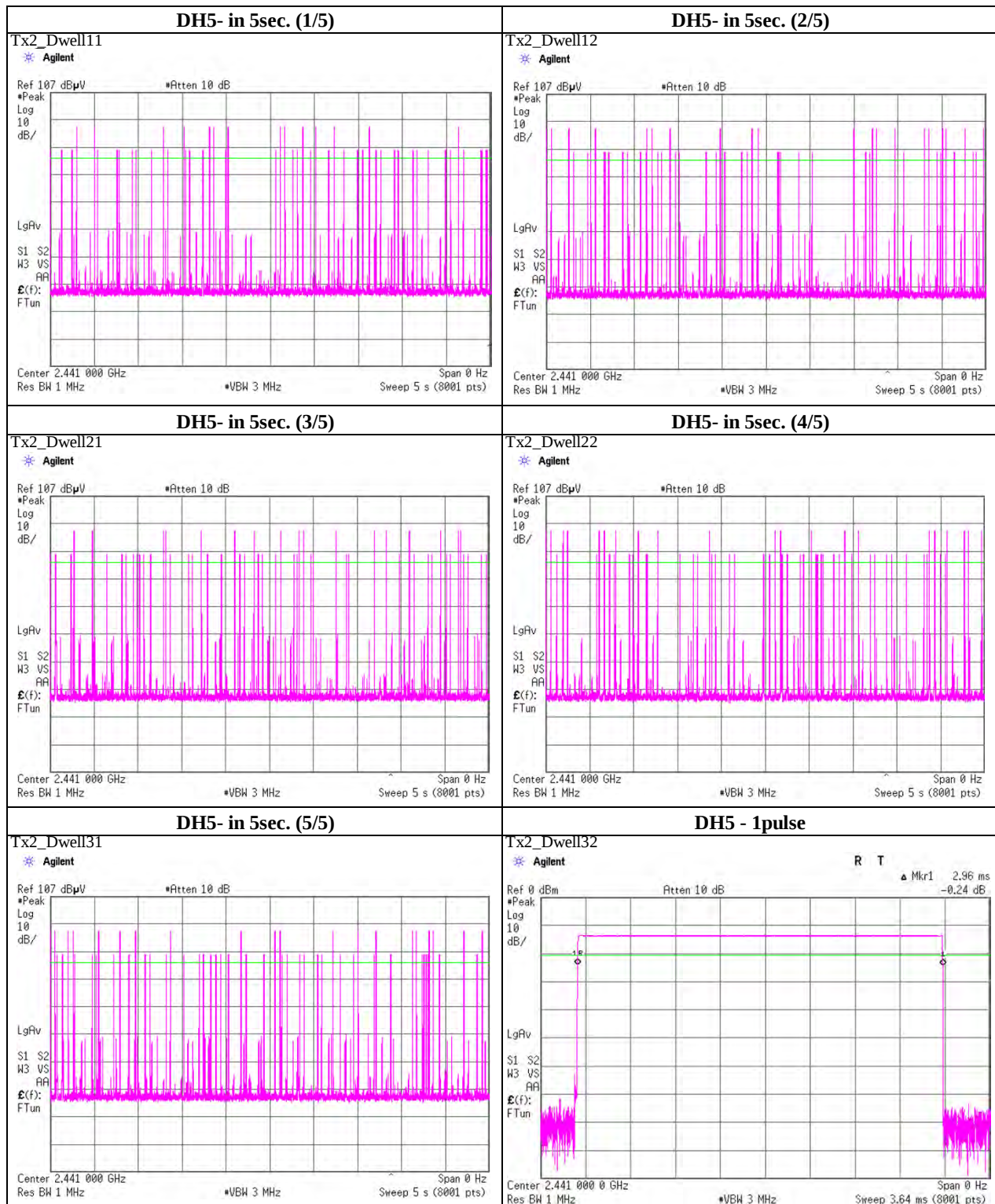
Facsimile : +81 463 50 6401

Dwell time**Tx, Bluetooth, BDR, PRBS9****UL Japan, Inc.****Shonan EMC Lab.**

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Dwell time**Tx, Bluetooth, BDR, PRBS9****UL Japan, Inc.****Shonan EMC Lab.**

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Dwell Time

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date February 20, 2012
 Temperature / Humidity 23deg.C , 40%RH
 Engineer Wataru Kojima
 Mode Tx, Bluetooth, EDR, PRBS9

Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
3-DH1	50.4 / 5.0 sec. x 31.6 sec. = 319 times	0.451	144	400
3-DH3	23.0 / 5.0 sec. x 31.6 sec. = 146 times	1.702	248	400
3-DH5	18.2 / 5.0 sec. x 31.6 sec. = 116 times	2.954	343	400

Sample Calculation

Result = Number of transmission x Length of transmission time

*Average data of 5 tests.(except Inquiry)

Mode	Sampling [times]					Average [times]
	1	2	3	4	5	
3-DH1	51	50	50	50	51	50.4
3-DH3	24	20	27	20	24	23.0
3-DH5	15	19	20	15	22	18.2

Sample Calculation

Average= Summation(Sampling 1 to 5) / 5

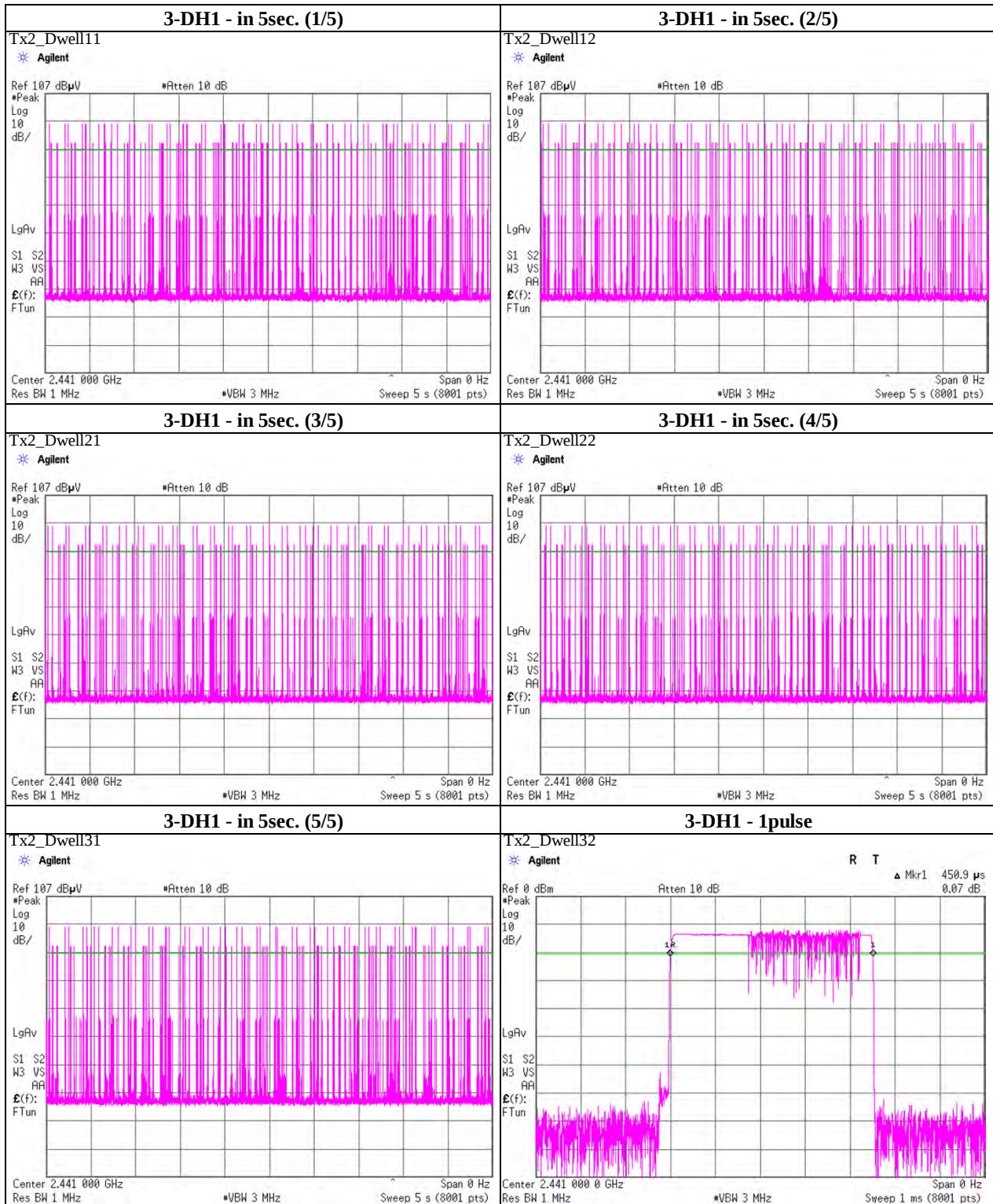
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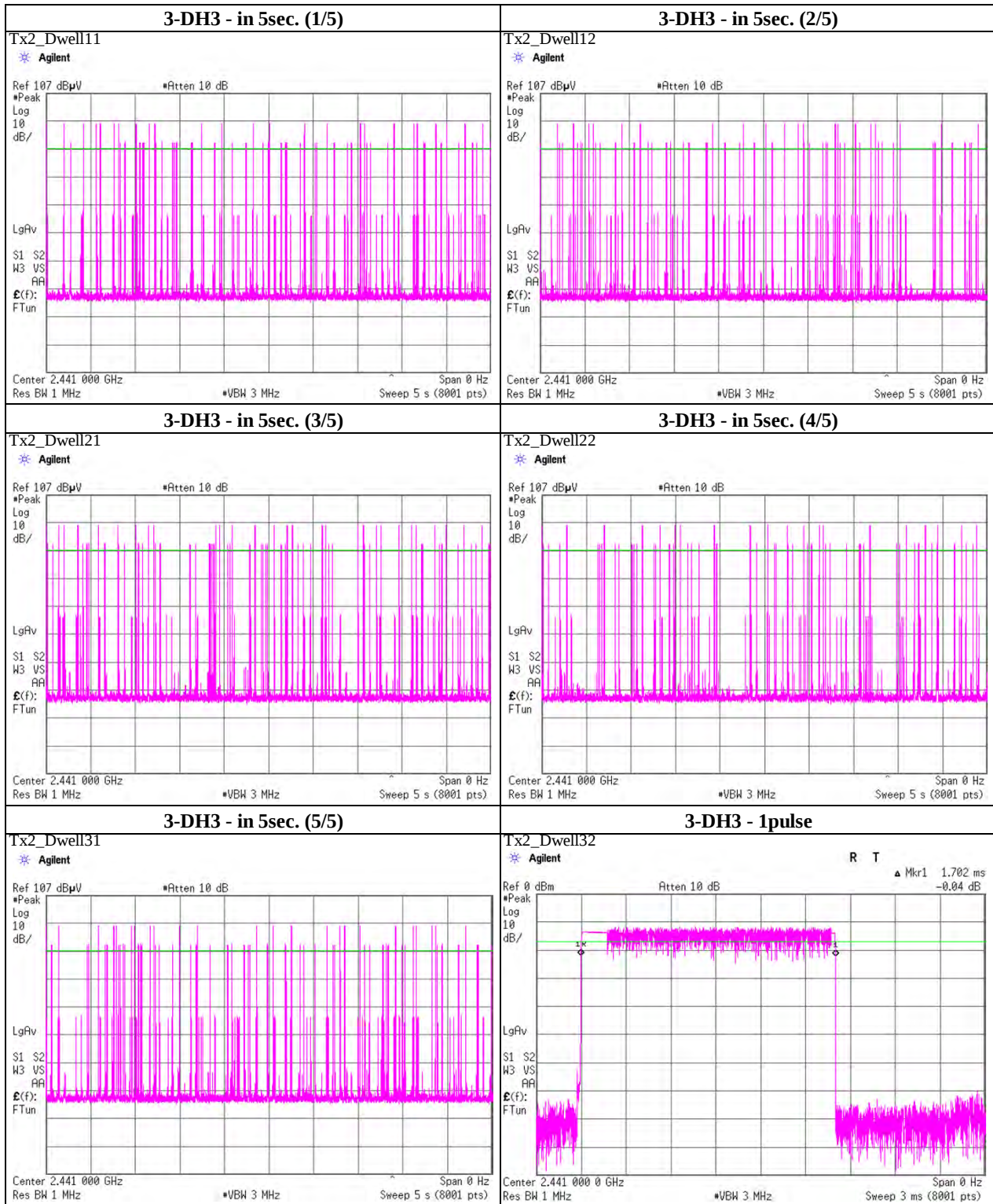
Facsimile : +81 463 50 6401

Dwell time**Tx, Bluetooth, EDR, PRBS9****UL Japan, Inc.****Shonan EMC Lab.**

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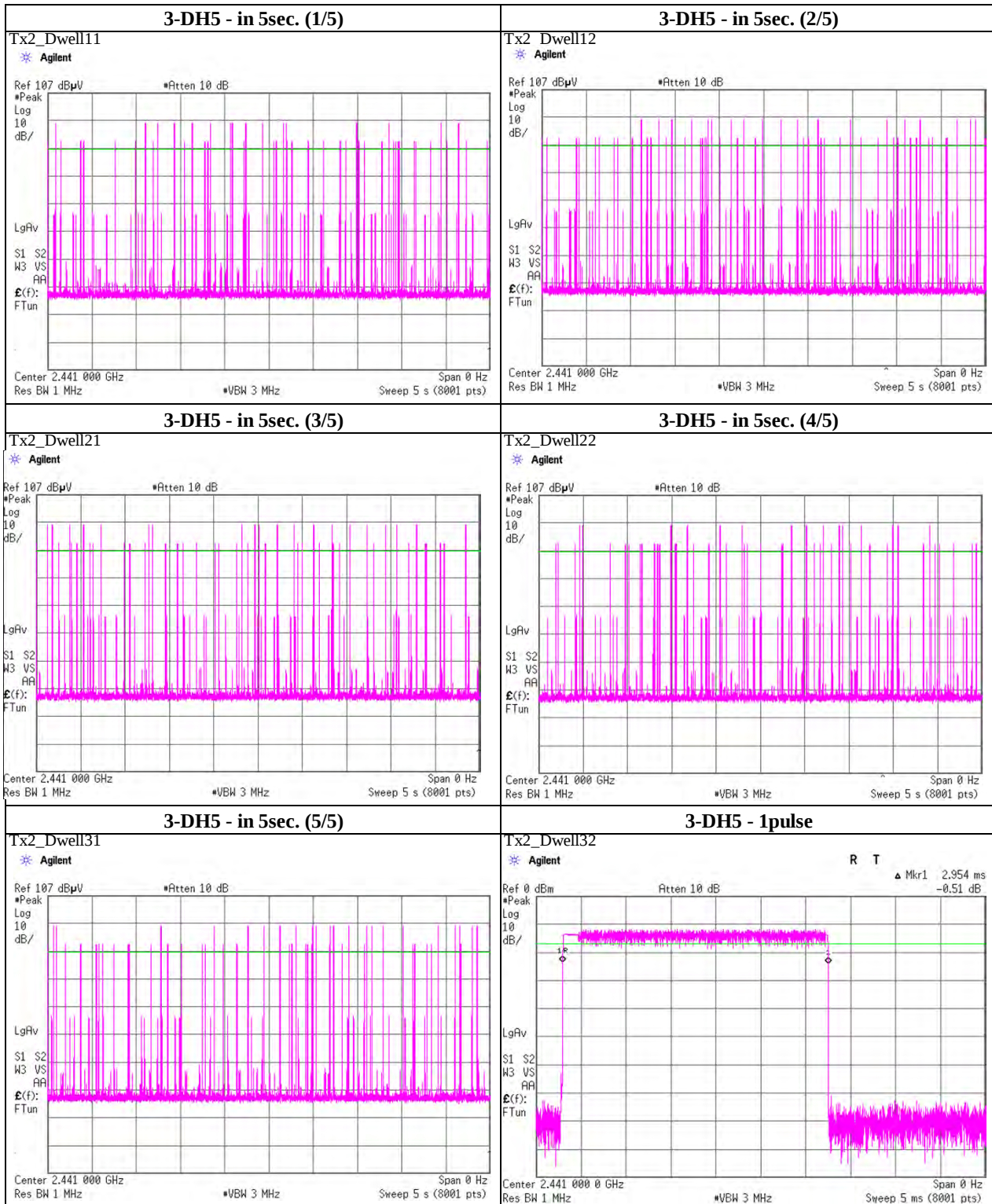
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Peak Output Power (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date February 20, 2012
 Temperature / Humidity 23deg.C , 40%RH
 Engineer Wataru Kojima
 Mode Tx, Bluetooth

(* P/M: Power Meter with power sensor)

	Freq.	P/M (Peak) Reading	Cable Loss	Atten. Loss	Result		Limit		Margin
	[MHz]	[dBm]	[dB]	[dB]	[dBm]	[mW]	[dBm]	[mW]	[dB]
DH5	2402.0	-11.84	1.39	9.57	-0.88	0.82	20.97	125	21.85
DH5	2441.0	-12.44	1.40	9.57	-1.47	0.71	20.97	125	22.44
DH5	2480.0	-13.22	1.41	9.57	-2.24	0.60	20.97	125	23.21
2-DH5	2402.0	-10.14	1.39	9.57	0.82	1.21	20.97	125	20.15
2-DH5	2441.0	-10.74	1.40	9.57	0.23	1.05	20.97	125	20.74
2-DH5	2480.0	-11.56	1.41	9.57	-0.58	0.87	20.97	125	21.55
3-DH5	2402.0	-9.74	1.39	9.57	1.22	1.32	20.97	125	19.75
3-DH5	2441.0	-10.35	1.40	9.57	0.62	1.15	20.97	125	20.35
3-DH5	2480.0	-11.30	1.41	9.57	-0.32	0.93	20.97	125	21.29

Sample Calculation:

Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

UL Japan, Inc.
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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date February 18, 2012 February 21, 2012
 Temperature / Humidity 25deg.C , 30%RH 18deg.C , 32%RH
 Engineer Hikaru Shirasawa Akio Hayashi
 Mode Tx, 2402 MHz
 Tx, Bluetooth, BDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	67.949	QP	48.3	6.8	7.5	31.8	30.8	40.0	9.2	289	82	PK:VBW 3MHz
Hori.	75.943	QP	54.8	6.4	7.6	31.8	37.0	40.0	3.0	246	232	AV:VBW 10Hz
Hori.	312.000	QP	46.4	14.3	6.9	31.8	35.8	46.0	10.2	100	202	
Hori.	575.975	QP	36.4	18.6	8.5	32.0	31.5	46.0	14.5	170	347	
Hori.	900.018	QP	32.2	21.9	10.0	31.3	32.8	46.0	13.2	100	80	
Hori.	1440.000	PK	54.1	25.0	12.9	40.8	51.2	73.9	22.7	133	101	
Hori.	2390.000	PK	47.2	27.2	13.8	41.1	47.1	73.9	26.8	100	0	
Hori.	2400.000	PK	48.4	27.3	13.8	41.1	48.4	73.9	25.5	100	71	
Hori.	4804.000	PK	49.0	31.1	5.9	41.1	44.9	73.9	29.0	145	264	
Hori.	7206.000	PK	47.6	36.5	6.9	41.3	49.7	73.9	24.2	100	359	
Hori.	9608.000	PK	45.3	38.2	8.8	38.8	53.5	73.9	20.4	100	0	
Hori.	12010.000	PK	46.1	39.3	9.6	39.2	55.8	73.9	18.1	100	359	
Hori.	1440.000	AV	50.3	25.0	12.9	40.8	47.4	53.9	6.5	133	101	
Hori.	2390.000	AV	35.3	27.2	13.8	41.1	35.2	53.9	18.7	100	0	
Hori.	2400.000	AV	38.2	27.3	13.8	41.1	38.2	53.9	15.7	100	71	
Hori.	4804.000	AV	39.9	31.1	5.9	41.1	35.8	53.9	18.1	145	264	
Hori.	7206.000	AV	35.8	36.5	6.9	41.3	37.9	53.9	16.0	100	359	
Hori.	9608.000	AV	33.4	38.2	8.8	38.8	41.6	53.9	12.3	100	0	
Hori.	12010.000	AV	34.4	39.3	9.6	39.2	44.1	53.9	9.8	100	359	
Vert.	35.998	QP	41.8	16.3	7.0	31.8	33.3	40.0	6.7	100	95	
Vert.	503.973	QP	41.2	17.7	8.1	31.9	35.1	46.0	10.9	100	105	
Vert.	863.958	QP	34.6	21.5	9.8	31.6	34.3	46.0	11.7	116	102	
Vert.	935.948	QP	33.5	22.3	10.2	31.1	34.9	46.0	11.1	100	128	
Vert.	1440.000	PK	49.8	25.0	12.9	40.8	46.9	73.9	27.0	147	50	
Vert.	2390.000	PK	47.0	27.2	13.8	41.1	46.9	73.9	27.0	100	0	
Vert.	2400.000	PK	48.7	27.3	13.8	41.1	48.7	73.9	25.2	175	359	
Vert.	4804.000	PK	50.1	31.1	5.9	41.1	46.0	73.9	27.9	100	20	
Vert.	7206.000	PK	47.6	36.5	6.9	41.3	49.7	73.9	24.2	100	0	
Vert.	9608.000	PK	45.1	38.2	8.8	38.8	53.3	73.9	20.6	100	359	
Vert.	12010.000	PK	46.7	39.3	9.6	39.2	56.4	73.9	17.5	100	0	
Vert.	1440.000	AV	43.4	25.0	12.9	40.8	40.5	53.9	13.4	147	50	
Vert.	2390.000	AV	35.7	27.2	13.8	41.1	35.6	53.9	18.3	100	0	
Vert.	2400.000	AV	36.5	27.3	13.8	41.1	36.5	53.9	17.4	175	359	
Vert.	4804.000	AV	41.9	31.1	5.9	41.1	37.8	53.9	16.1	100	20	
Vert.	7206.000	AV	36.5	36.5	6.9	41.3	38.6	53.9	15.3	100	0	
Vert.	9608.000	AV	33.7	38.2	8.8	38.8	41.9	53.9	12.0	100	359	
Vert.	12010.000	AV	34.5	39.3	9.6	39.2	44.2	53.9	9.7	100	0	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

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

Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date February 18, 2012 February 21, 2012
 Temperature / Humidity 25deg.C , 30%RH 18deg.C , 32%RH
 Engineer Hikaru Shirasawa Akio Hayashi
 Mode Tx, 2441 MHz
 Tx, Bluetooth, BDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	67.930	QP	51.7	6.8	7.5	31.8	34.2	40.0	5.8	277	94	PK:VBW 3MHz
Hori.	75.938	QP	54.3	6.4	7.6	31.8	36.5	40.0	3.5	234	220	AV:VBW 10Hz
Hori.	312.000	QP	46.3	14.3	6.9	31.8	35.7	46.0	10.3	100	211	
Hori.	503.977	QP	40.4	17.7	8.1	31.9	34.3	46.0	11.7	100	351	
Hori.	863.970	QP	33.4	21.5	9.8	31.6	33.1	46.0	12.9	100	82	
Hori.	960.021	QP	32.4	22.5	10.3	30.9	34.3	53.9	19.6	100	41	
Hori.	1440.000	PK	54.5	25.0	12.9	40.8	51.6	73.9	22.3	132	100	
Hori.	4882.000	PK	49.1	31.2	5.9	40.9	45.3	73.9	28.6	100	235	
Hori.	7323.000	PK	46.2	36.8	6.9	41.4	48.5	73.9	25.4	100	0	
Hori.	9764.000	PK	45.3	38.5	8.7	38.8	53.7	73.9	20.2	100	0	
Hori.	12205.000	PK	45.3	39.3	9.6	39.2	55.0	73.9	18.9	100	359	
Hori.	1440.000	AV	50.2	25.0	12.9	40.8	47.3	53.9	6.6	132	100	
Hori.	4882.000	AV	39.9	31.2	5.9	40.9	36.1	53.9	17.8	100	235	
Hori.	7323.000	AV	33.7	36.8	6.9	41.4	36.0	53.9	17.9	100	0	
Hori.	9764.000	AV	33.4	38.5	8.7	38.8	41.8	53.9	12.1	100	0	
Hori.	12205.000	AV	34.1	39.3	9.6	39.2	43.8	53.9	10.1	100	359	
Vert.	35.997	QP	41.5	16.3	7.0	31.8	33.0	40.0	7.0	102	69	
Vert.	575.973	QP	38.9	18.6	8.5	32.0	34.0	46.0	12.0	137	308	
Vert.	935.954	QP	34.0	22.3	10.2	31.1	35.4	46.0	10.6	100	129	
Vert.	1440.000	PK	50.1	25.0	12.9	40.8	47.2	73.9	26.7	177	63	
Vert.	4882.000	PK	49.6	31.2	5.9	40.9	45.8	73.9	28.1	100	359	
Vert.	7323.000	PK	47.1	36.8	6.9	41.4	49.4	73.9	24.5	100	0	
Vert.	9764.000	PK	45.9	38.5	8.7	38.8	54.3	73.9	19.6	100	359	
Vert.	12205.000	PK	46.6	39.3	9.6	39.2	56.3	73.9	17.6	100	0	
Vert.	1440.000	AV	42.4	25.0	12.9	40.8	39.5	53.9	14.4	177	63	
Vert.	4882.000	AV	42.2	31.2	5.9	40.9	38.4	53.9	15.5	100	359	
Vert.	7323.000	AV	35.4	36.8	6.9	41.4	37.7	53.9	16.2	100	0	
Vert.	9764.000	AV	34.0	38.5	8.7	38.8	42.4	53.9	11.5	100	359	
Vert.	12205.000	AV	34.3	39.3	9.6	39.2	44.0	53.9	9.9	100	0	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)) - Gain(Amplifier)

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

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date February 18, 2012 February 21, 2012
 Temperature / Humidity 25deg.C , 30%RH 18deg.C , 32%RH
 Engineer Hikaru Shirasawa Akio Hayashi
 Mode Tx, 2480 MHz
 Tx, Bluetooth, BDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	67.954	QP	49.1	6.8	7.5	31.8	31.6	40.0	8.4	317	82	PK:VBW 3MHz
Hori.	75.946	QP	55.4	6.4	7.6	31.8	37.6	40.0	2.4	235	219	AV:VBW 10Hz
Hori.	83.942	QP	44.0	7.1	7.7	31.8	27.0	40.0	13.0	253	191	
Hori.	123.912	QP	37.1	13.2	8.2	31.8	26.7	43.5	16.8	245	56	
Hori.	249.608	QP	38.0	17.3	9.4	31.7	33.0	46.0	13.0	135	250	
Hori.	312.001	QP	45.9	14.3	6.9	31.8	35.3	46.0	10.7	100	202	
Hori.	863.958	QP	31.6	21.5	9.8	31.6	31.3	46.0	14.7	100	88	
Hori.	1440.000	PK	54.2	25.0	12.9	40.8	51.3	73.9	22.6	133	100	
Hori.	2483.500	PK	47.4	27.5	13.8	41.1	47.6	73.9	26.3	100	359	
Hori.	2483.900	PK	47.7	27.5	13.8	41.1	47.9	73.9	26.0	100	0	
Hori.	4960.000	PK	49.8	31.4	5.8	40.8	46.2	73.9	27.7	100	299	
Hori.	7440.000	PK	47.6	37.0	6.9	41.5	50.0	73.9	23.9	100	359	
Hori.	9920.000	PK	45.6	38.8	8.7	38.8	54.3	73.9	19.6	100	0	
Hori.	12400.000	PK	46.3	39.4	9.6	39.2	56.1	73.9	17.8	100	0	
Hori.	1440.000	AV	50.2	25.0	12.9	40.8	47.3	53.9	6.6	133	100	
Hori.	2483.500	AV	35.3	27.5	13.8	41.1	35.5	53.9	18.4	100	359	
Hori.	2483.900	AV	35.3	27.5	13.8	41.1	35.5	53.9	18.4	100	0	
Hori.	4960.000	AV	41.4	31.4	5.8	40.8	37.8	53.9	16.1	100	299	
Hori.	7440.000	AV	35.5	37.0	6.9	41.5	37.9	53.9	16.0	100	359	
Hori.	9920.000	AV	33.3	38.8	8.7	38.8	42.0	53.9	11.9	100	0	
Hori.	12400.000	AV	33.8	39.4	9.6	39.2	43.6	53.9	10.3	100	0	
Vert.	36.002	QP	42.1	16.3	7.0	31.8	33.6	40.0	6.4	100	94	
Vert.	503.973	QP	40.5	17.7	8.1	31.9	34.4	46.0	11.6	128	302	
Vert.	935.954	QP	33.7	22.3	10.2	31.1	35.1	46.0	10.9	100	132	
Vert.	1440.000	PK	50.9	25.0	12.9	40.8	48.0	73.9	25.9	191	61	
Vert.	2483.500	PK	48.0	27.5	13.8	41.1	48.2	73.9	25.7	100	359	
Vert.	2483.900	PK	48.2	27.5	13.8	41.1	48.4	73.9	25.5	100	0	
Vert.	4960.000	PK	50.5	31.4	5.8	40.8	46.9	73.9	27.0	100	0	
Vert.	7440.000	PK	48.2	37.0	6.9	41.5	50.6	73.9	23.3	100	359	
Vert.	9920.000	PK	45.2	38.8	8.7	38.8	53.9	73.9	20.0	100	359	
Vert.	12400.000	PK	46.8	39.4	9.6	39.2	56.6	73.9	17.3	100	0	
Vert.	1440.000	AV	43.8	25.0	12.9	40.8	40.9	53.9	13.0	191	61	
Vert.	2483.500	AV	35.4	27.5	13.8	41.1	35.6	53.9	18.3	100	359	
Vert.	2483.900	AV	35.4	27.5	13.8	41.1	35.6	53.9	18.3	100	0	
Vert.	4960.000	AV	43.1	31.4	5.8	40.8	39.5	53.9	14.4	100	0	
Vert.	7440.000	AV	35.4	37.0	6.9	41.5	37.8	53.9	16.1	100	359	
Vert.	9920.000	AV	33.3	38.8	8.7	38.8	42.0	53.9	11.9	100	359	
Vert.	12400.000	AV	33.7	39.4	9.6	39.2	43.5	53.9	10.4	100	0	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)) - Gain(Amplifier)

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

UL Japan, Inc.**Shonan EMC Lab.**

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Telephone : +81 463 50 6400

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date February 18, 2012 February 21, 2012
 Temperature / Humidity 25deg.C , 30%RH 18deg.C , 32%RH
 Engineer Hikaru Shirasawa Akio Hayashi
 Mode Tx, 2402 MHz
 Tx, Bluetooth, EDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	67.954	QP	49.1	6.8	7.5	31.8	31.6	40.0	8.4	317	82	PK:VBW 3MHz
Hori.	75.946	QP	55.4	6.4	7.6	31.8	37.6	40.0	2.4	235	219	AV:VBW 10Hz
Hori.	83.942	QP	44.0	7.1	7.7	31.8	27.0	40.0	13.0	253	191	
Hori.	123.912	QP	37.1	13.2	8.2	31.8	26.7	43.5	16.8	245	56	
Hori.	249.608	QP	38.0	17.3	9.4	31.7	33.0	46.0	13.0	135	250	
Hori.	312.001	QP	45.9	14.3	6.9	31.8	35.3	46.0	10.7	100	202	
Hori.	863.958	QP	31.6	21.5	9.8	31.6	31.3	46.0	14.7	100	88	
Hori.	1440.000	PK	54.0	25.0	12.9	40.8	51.1	73.9	22.8	131	103	
Hori.	2390.000	PK	47.3	27.2	13.8	41.1	47.2	73.9	26.7	100	0	
Hori.	2400.000	PK	51.5	27.3	13.8	41.1	51.5	73.9	22.4	109	221	
Hori.	4804.000	PK	50.3	31.1	5.9	41.1	46.2	73.9	27.7	100	0	
Hori.	7206.000	PK	48.2	36.5	6.9	41.3	50.3	73.9	23.6	100	359	
Hori.	9608.000	PK	46.5	38.2	8.8	38.8	54.7	73.9	19.2	100	0	
Hori.	12010.000	PK	47.4	39.3	9.6	39.2	57.1	73.9	16.8	100	359	
Hori.	1440.000	AV	50.1	25.0	12.9	40.8	47.2	53.9	6.7	131	103	
Hori.	2390.000	AV	35.2	27.2	13.8	41.1	35.1	53.9	18.8	100	0	
Hori.	2400.000	AV	39.1	27.3	13.8	41.1	39.1	53.9	14.8	109	221	
Hori.	4804.000	AV	40.4	31.1	5.9	41.1	36.3	53.9	17.6	100	0	
Hori.	7206.000	AV	35.9	36.5	6.9	41.3	38.0	53.9	15.9	100	359	
Hori.	9608.000	AV	33.6	38.2	8.8	38.8	41.8	53.9	12.1	100	0	
Hori.	12010.000	AV	34.5	39.3	9.6	39.2	44.2	53.9	9.7	100	359	
Vert.	36.002	QP	42.1	16.3	7.0	31.8	33.6	40.0	6.4	100	94	
Vert.	75.946	QP	51.0	6.4	7.6	31.8	33.2	40.0	6.8	199	154	
Vert.	503.973	QP	40.5	17.7	8.1	31.9	34.4	46.0	11.6	128	302	
Vert.	935.954	QP	33.7	22.3	10.2	31.1	35.1	46.0	10.9	100	132	
Vert.	1440.000	PK	50.0	25.0	12.9	40.8	47.1	73.9	26.8	112	62	
Vert.	2390.000	PK	47.0	27.2	13.8	41.1	46.9	73.9	27.0	100	0	
Vert.	2400.000	PK	50.8	27.3	13.8	41.1	50.8	73.9	23.1	115	160	
Vert.	4804.000	PK	49.2	31.1	5.9	41.1	45.1	73.9	28.8	100	22	
Vert.	7206.000	PK	48.2	36.5	6.9	41.3	50.3	73.9	23.6	100	0	
Vert.	9608.000	PK	46.4	38.2	8.8	38.8	54.6	73.9	19.3	100	359	
Vert.	12010.000	PK	46.9	39.3	9.6	39.2	56.6	73.9	17.3	100	0	
Vert.	1440.000	AV	42.4	25.0	12.9	40.8	39.5	53.9	14.4	112	62	
Vert.	2390.000	AV	35.2	27.2	13.8	41.1	35.1	53.9	18.8	100	0	
Vert.	2400.000	AV	38.5	27.3	13.8	41.1	38.5	53.9	15.4	115	160	
Vert.	4804.000	AV	40.6	31.1	5.9	41.1	36.5	53.9	17.4	100	22	
Vert.	7206.000	AV	36.0	36.5	6.9	41.3	38.1	53.9	15.8	100	0	
Vert.	9608.000	AV	33.9	38.2	8.8	38.8	42.1	53.9	11.8	100	359	
Vert.	12010.000	AV	34.6	39.3	9.6	39.2	44.3	53.9	9.6	100	0	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter) - Gain(Amplifier)

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

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date February 18, 2012 February 21, 2012
 Temperature / Humidity 25deg.C , 30%RH 18deg.C , 32%RH
 Engineer Hikaru Shirasawa Akio Hayashi
 Mode Tx, 2441 MHz
 Tx, Bluetooth, EDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	67.956	QP	49.5	6.8	7.5	31.8	32.0	40.0	8.0	294	100	PK:VBW 3MHz
Hori.	75.947	QP	55.7	6.4	7.6	31.8	37.9	40.0	2.1	268	27	AV:VBW 10Hz
Hori.	249.605	QP	39.3	17.3	9.4	31.7	34.3	46.0	11.7	134	242	
Hori.	312.001	QP	46.1	14.3	6.9	31.8	35.5	46.0	10.5	100	204	
Hori.	503.973	QP	38.4	17.7	8.1	31.9	32.3	46.0	13.7	102	116	
Hori.	575.978	QP	36.8	18.6	8.5	32.0	31.9	46.0	14.1	168	50	
Hori.	863.963	QP	32.1	21.5	9.8	31.6	31.8	46.0	14.2	106	85	
Hori.	1440.000	PK	53.9	25.0	12.9	40.8	51.0	73.9	22.9	131	98	
Hori.	4882.000	PK	49.7	31.2	5.9	40.9	45.9	73.9	28.0	100	267	
Hori.	7323.000	PK	47.9	36.8	6.9	41.4	50.2	73.9	23.7	100	359	
Hori.	9764.000	PK	46.0	38.5	8.7	38.8	54.4	73.9	19.5	100	0	
Hori.	12205.000	PK	46.8	39.3	9.6	39.2	56.5	73.9	17.4	100	359	
Hori.	1440.000	AV	49.8	25.0	12.9	40.8	46.9	53.9	7.0	131	98	
Hori.	4882.000	AV	39.8	31.2	5.9	40.9	36.0	53.9	17.9	100	267	
Hori.	7323.000	AV	35.3	36.8	6.9	41.4	37.6	53.9	16.3	100	359	
Hori.	9764.000	AV	33.8	38.5	8.7	38.8	42.2	53.9	11.7	100	0	
Hori.	12205.000	AV	34.2	39.3	9.6	39.2	43.9	53.9	10.0	100	359	
Vert.	36.001	QP	41.6	16.3	7.0	31.8	33.1	40.0	6.9	100	98	
Vert.	935.948	QP	31.1	22.3	10.2	31.1	32.5	46.0	13.5	151	119	
Vert.	1440.000	PK	49.2	25.0	12.9	40.8	46.3	73.9	27.6	111	63	
Vert.	4882.000	PK	49.7	31.2	5.9	40.9	45.9	73.9	28.0	111	0	
Vert.	7323.000	PK	47.9	36.8	6.9	41.4	50.2	73.9	23.7	100	0	
Vert.	9764.000	PK	46.3	38.5	8.7	38.8	54.7	73.9	19.2	100	359	
Vert.	12205.000	PK	46.8	39.3	9.6	39.2	56.5	73.9	17.4	100	0	
Vert.	1440.000	AV	42.4	25.0	12.9	40.8	39.5	53.9	14.4	111	63	
Vert.	4882.000	AV	41.8	31.2	5.9	40.9	38.0	53.9	15.9	111	0	
Vert.	7323.000	AV	35.4	36.8	6.9	41.4	37.7	53.9	16.2	100	0	
Vert.	9764.000	AV	34.1	38.5	8.7	38.8	42.5	53.9	11.4	100	359	
Vert.	12205.000	AV	34.5	39.3	9.6	39.2	44.2	53.9	9.7	100	0	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)) - Gain(Amplifier)

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

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Radiated Emission

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Semi Anechoic Chamber
 Date February 18, 2012 February 21, 2012
 Temperature / Humidity 25deg.C , 30%RH 18deg.C , 32%RH
 Engineer Hikaru Shirasawa Akio Hayashi
 Mode Tx, 2480 MHz
 Tx, Bluetooth, EDR, PRBS9

(* PK: Peak, AV: Average, QP: Quasi-Peak)

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.	67.951	QP	51.2	6.8	7.5	31.8	33.7	40.0	6.3	254	95	PK:VBW 3MHz
Hori.	75.951	QP	55.5	6.4	7.6	31.8	37.7	40.0	2.3	263	216	AV:VBW 10Hz
Hori.	249.602	QP	38.3	17.3	9.4	31.7	33.3	46.0	12.7	130	240	
Hori.	312.001	QP	46.4	14.3	6.9	31.8	35.8	46.0	10.2	100	206	
Hori.	863.915	QP	33.4	21.5	9.8	31.6	33.1	46.0	12.9	100	85	
Hori.	900.018	QP	32.1	21.9	10.0	31.3	32.7	46.0	13.3	100	81	
Hori.	1440.000	PK	54.1	25.0	12.9	40.8	51.2	73.9	22.7	135	102	
Hori.	2483.500	PK	47.5	27.5	13.8	41.1	47.7	73.9	26.2	100	0	
Hori.	2483.950	PK	47.2	27.5	13.8	41.1	47.4	73.9	26.5	100	359	
Hori.	4960.000	PK	49.9	31.4	5.8	40.8	46.3	73.9	27.6	100	298	
Hori.	7440.000	PK	47.8	37.0	6.9	41.5	50.2	73.9	23.7	100	359	
Hori.	9920.000	PK	45.0	38.8	8.7	38.8	53.7	73.9	20.2	100	0	
Hori.	12400.000	PK	45.7	39.4	9.6	39.2	55.5	73.9	18.4	100	359	
Hori.	1440.000	AV	50.3	25.0	12.9	40.8	47.4	53.9	6.5	135	102	
Hori.	2483.500	AV	35.3	27.5	13.8	41.1	35.5	53.9	18.4	100	0	
Hori.	2483.950	AV	35.3	27.5	13.8	41.1	35.5	53.9	18.4	100	359	
Hori.	4960.000	AV	41.7	31.4	5.8	40.8	38.1	53.9	15.8	100	298	
Hori.	7440.000	AV	35.5	37.0	6.9	41.5	37.9	53.9	16.0	100	359	
Hori.	9920.000	AV	33.4	38.8	8.7	38.8	42.1	53.9	11.8	100	0	
Hori.	12400.000	AV	33.8	39.4	9.6	39.2	43.6	53.9	10.3	100	359	
Vert.	36.001	QP	41.1	16.3	7.0	31.8	32.6	40.0	7.4	100	98	
Vert.	503.974	QP	39.8	17.7	8.1	31.9	33.7	46.0	12.3	100	104	
Vert.	575.972	QP	38.4	18.6	8.5	32.0	33.5	46.0	12.5	123	330	
Vert.	935.949	QP	33.4	22.3	10.2	31.1	34.8	46.0	11.2	100	128	
Vert.	1440.000	PK	48.0	25.0	12.9	40.8	45.1	73.9	28.8	139	272	
Vert.	2483.500	PK	47.6	27.5	13.8	41.1	47.8	73.9	26.1	100	359	
Vert.	2483.950	PK	47.0	27.5	13.8	41.1	47.2	73.9	26.7	100	0	
Vert.	4960.000	PK	51.7	31.4	5.8	40.8	48.1	73.9	25.8	100	3	
Vert.	7440.000	PK	47.0	37.0	6.9	41.5	49.4	73.9	24.5	100	0	
Vert.	9920.000	PK	45.1	38.8	8.7	38.8	53.8	73.9	20.1	100	359	
Vert.	12400.000	PK	45.5	39.4	9.6	39.2	55.3	73.9	18.6	100	0	
Vert.	1440.000	AV	41.4	25.0	12.9	40.8	38.5	53.9	15.4	139	272	
Vert.	2483.500	AV	35.4	27.5	13.8	41.1	35.6	53.9	18.3	100	359	
Vert.	2483.950	AV	35.3	27.5	13.8	41.1	35.5	53.9	18.4	100	0	
Vert.	4960.000	AV	42.7	31.4	5.8	40.8	39.1	53.9	14.8	100	3	
Vert.	7440.000	AV	35.4	37.0	6.9	41.5	37.8	53.9	16.1	100	0	
Vert.	9920.000	AV	33.2	38.8	8.7	38.8	41.9	53.9	12.0	100	359	
Vert.	12400.000	AV	33.7	39.4	9.6	39.2	43.5	53.9	10.4	100	0	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter)) - Gain(Amplifier)

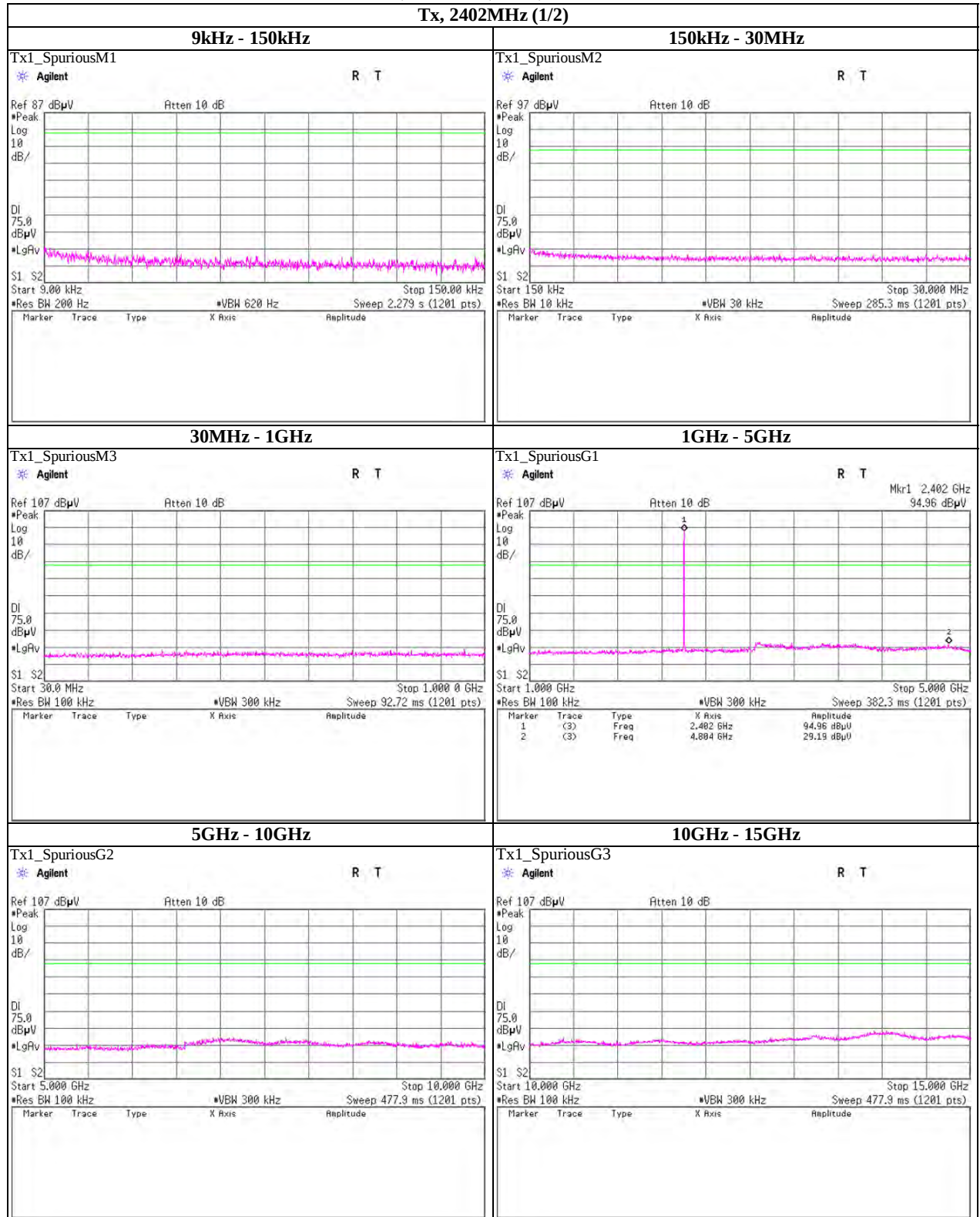
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20dB).

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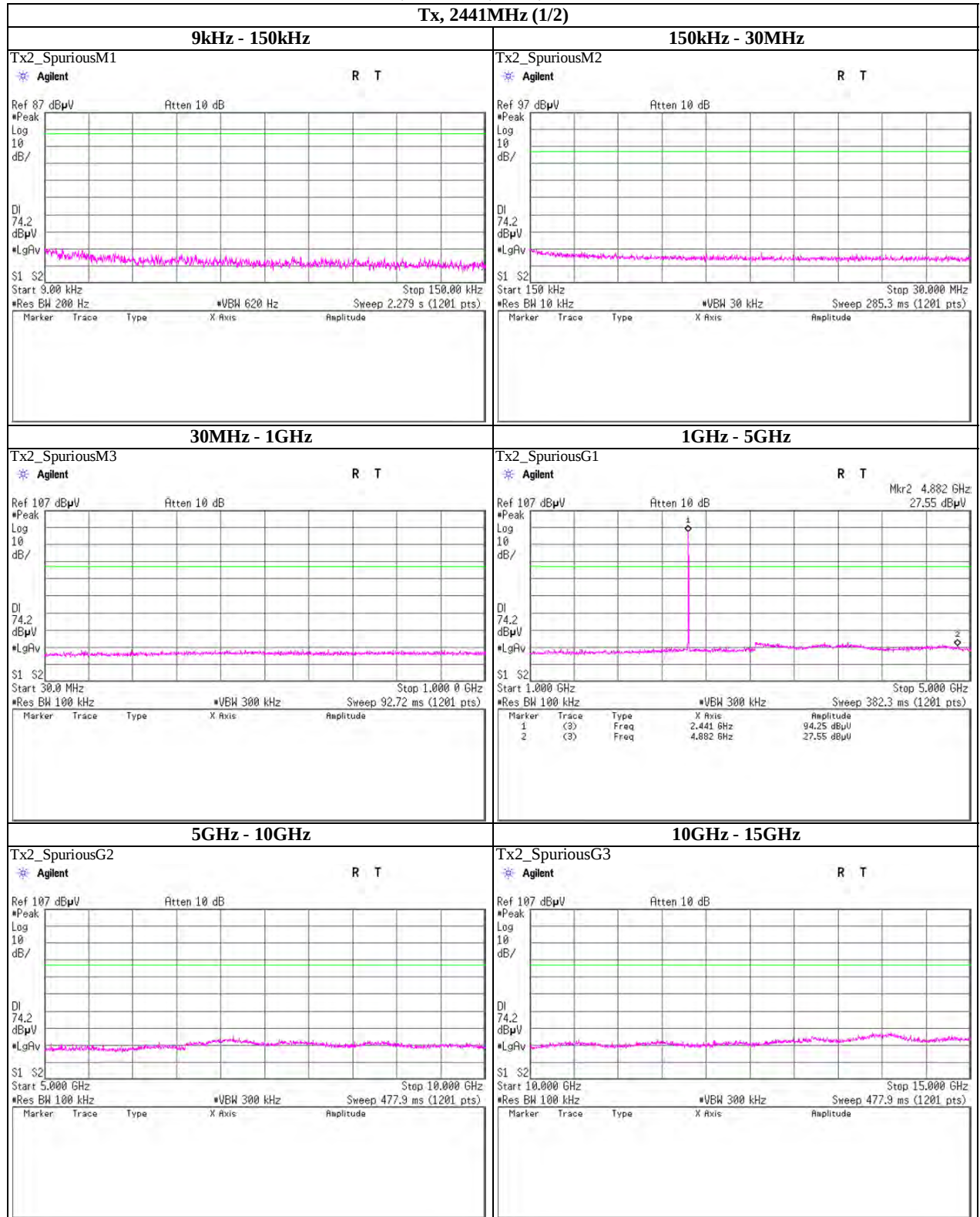
Spurious emission (Conducted)**Tx, Bluetooth, BDR, PRBS9****Tx, 2402MHz (1/2)****UL Japan, Inc.****Shonan EMC Lab.****1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN****Telephone : +81 463 50 6400****Facsimile : +81 463 50 6401**

Spurious emission (Conducted)

Tx, Bluetooth, BDR, PRBS9

Tx, 2402MHz (2/2)



Spurious emission (Conducted)**Tx, Bluetooth, BDR, PRBS9****Tx, 2441MHz (1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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Spurious emission (Conducted)

Tx, Bluetooth, BDR, PRBS9

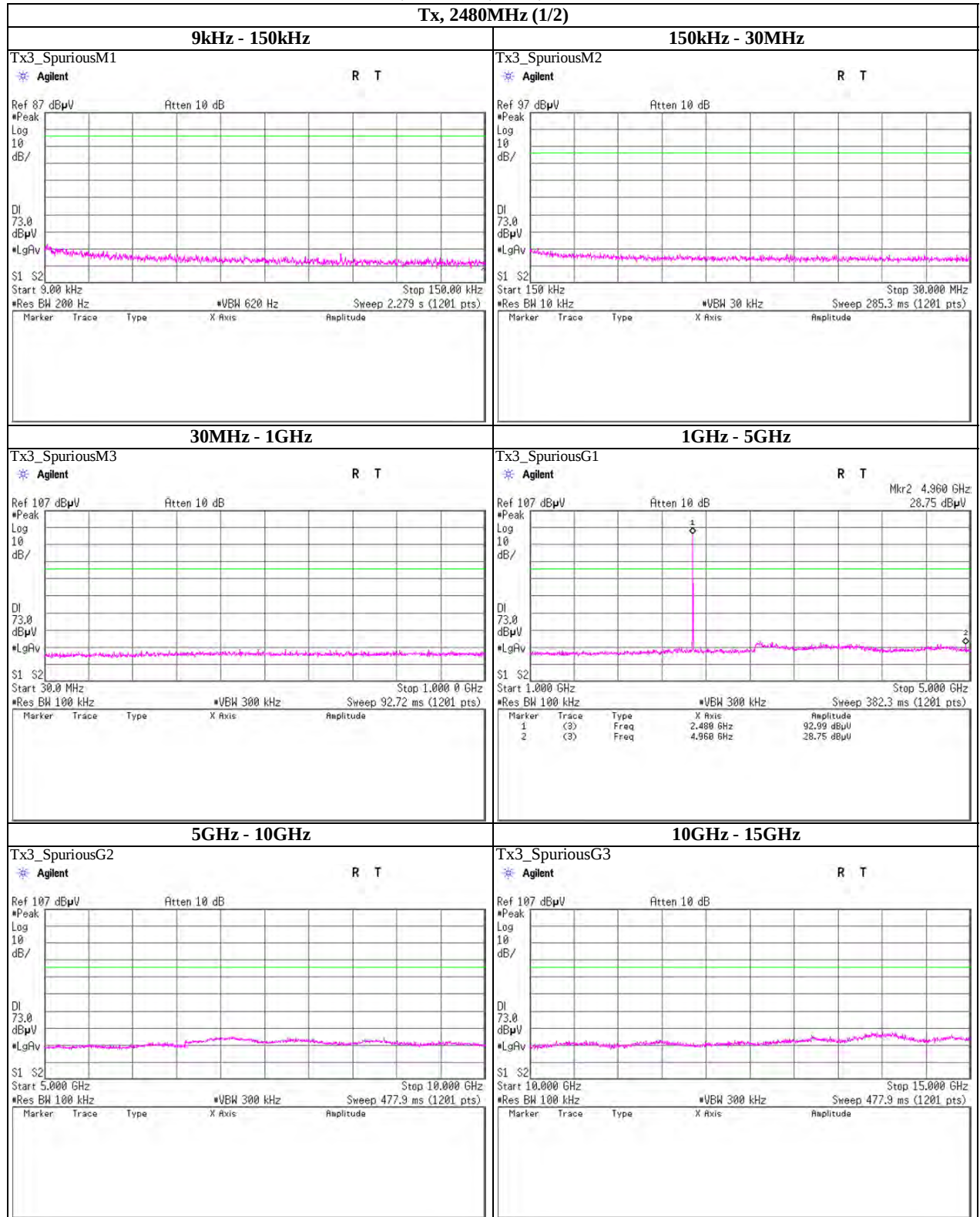
Tx, 2441MHz (2/2)



Spurious emission (Conducted)

Tx, Bluetooth, BDR, PRBS9

Tx, 2480MHz (1/2)



UL Japan, Inc.

Shonan EMC Lab.

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Telephone : +81 463 50 6400

Facsimile : +81 463 50 6401

Spurious emission (Conducted)

Tx, Bluetooth, BDR, PRBS9

Tx, 2480MHz (2/2)



Spurious emission (Conducted)**Tx, Bluetooth, EDR, PRBS9****Tx, 2402MHz (1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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Spurious emission (Conducted)

Tx, Bluetooth, EDR, PRBS9

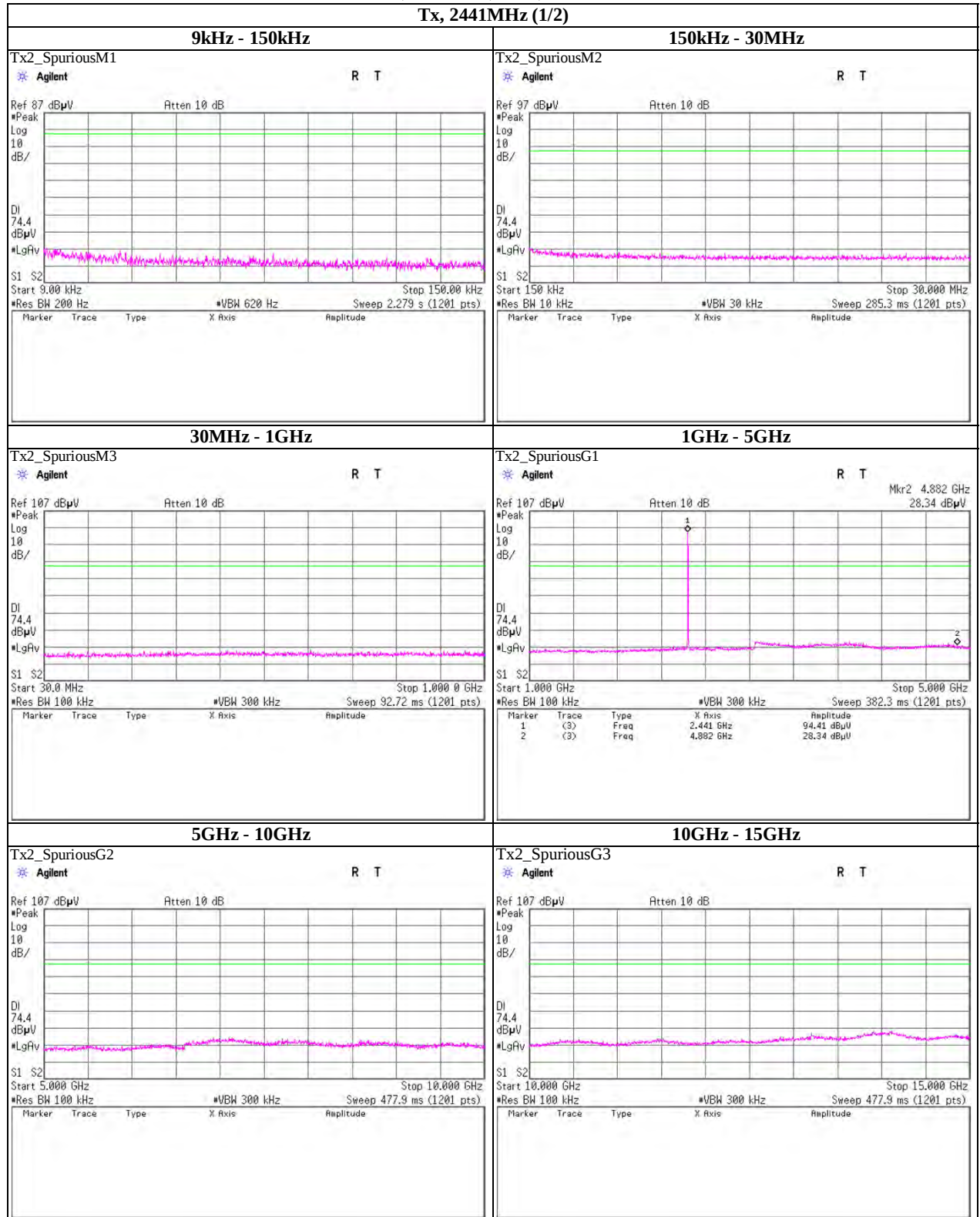
Tx, 2402MHz (2/2)



Spurious emission (Conducted)

Tx, Bluetooth, EDR, PRBS9

Tx, 2441MHz (1/2)



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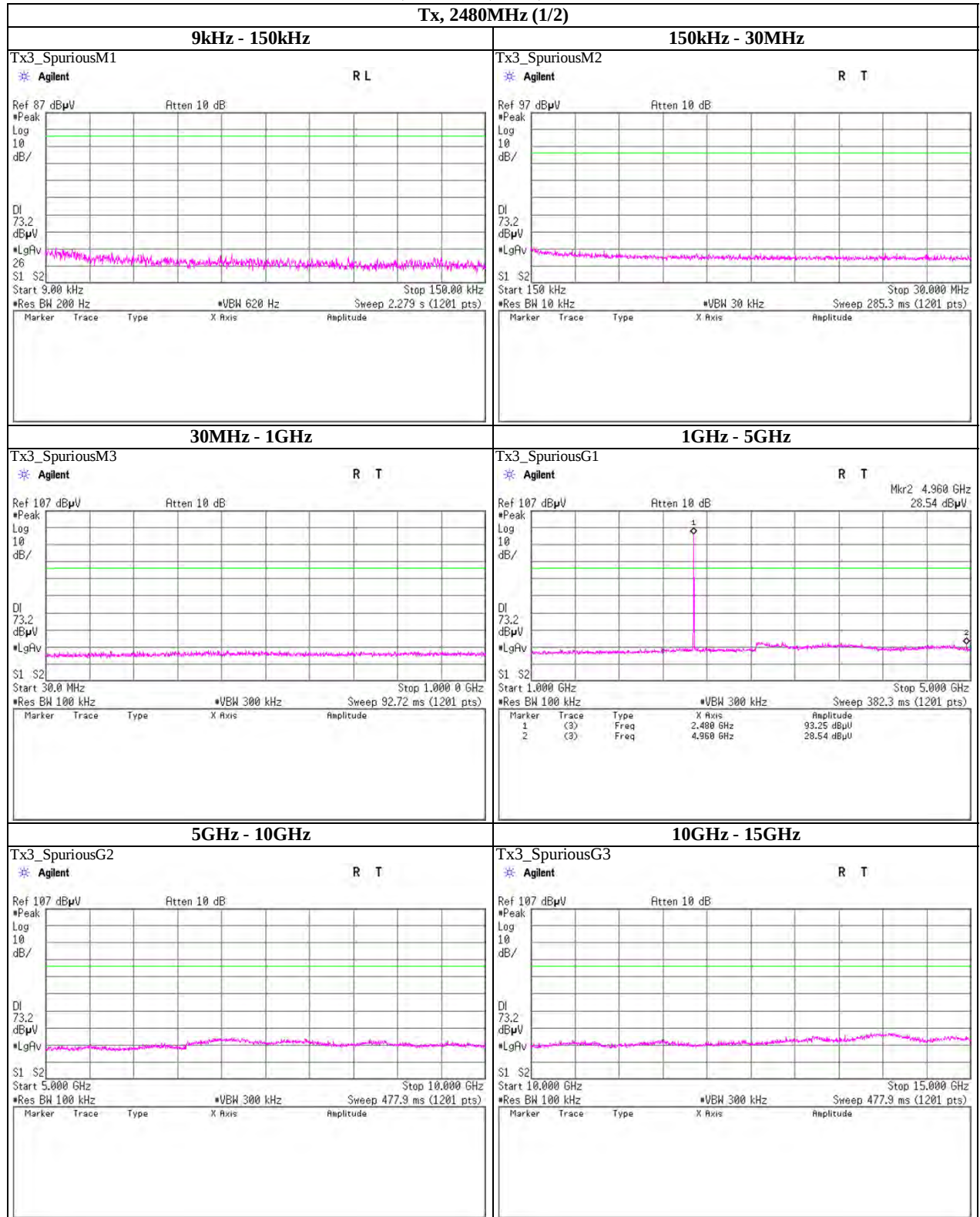
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

Tx, Bluetooth, EDR, PRBS9

Tx, 2441MHz (2/2)



Spurious emission (Conducted)**Tx, Bluetooth, EDR, PRBS9****Tx, 2480MHz (1/2)****UL Japan, Inc.****Shonan EMC Lab.**

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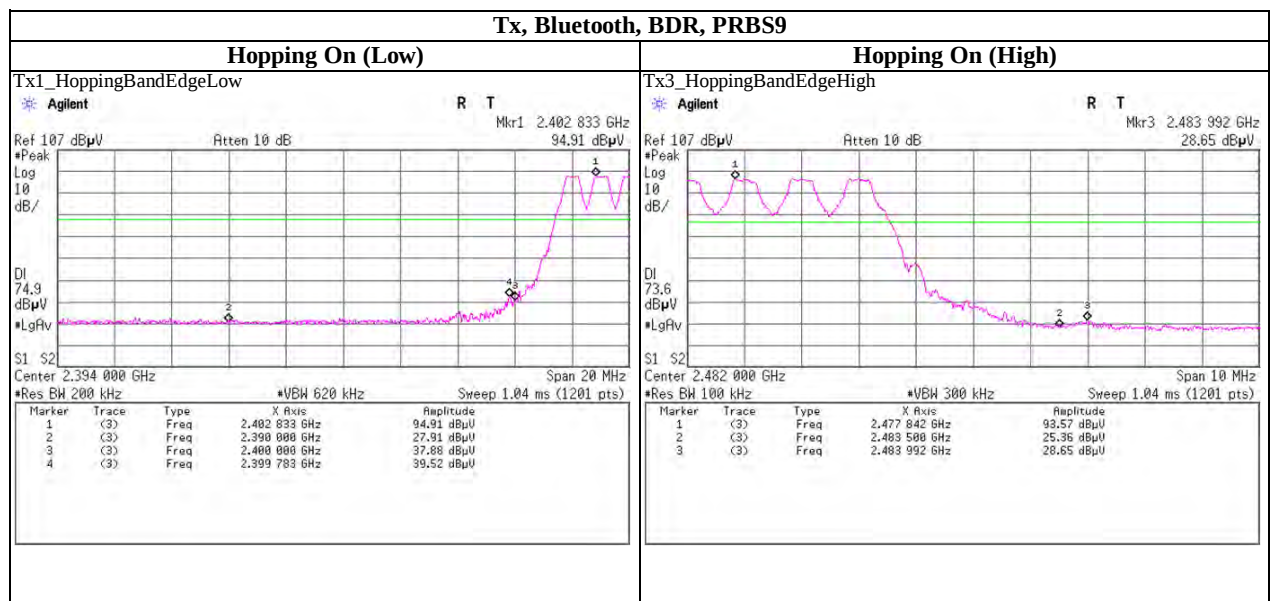
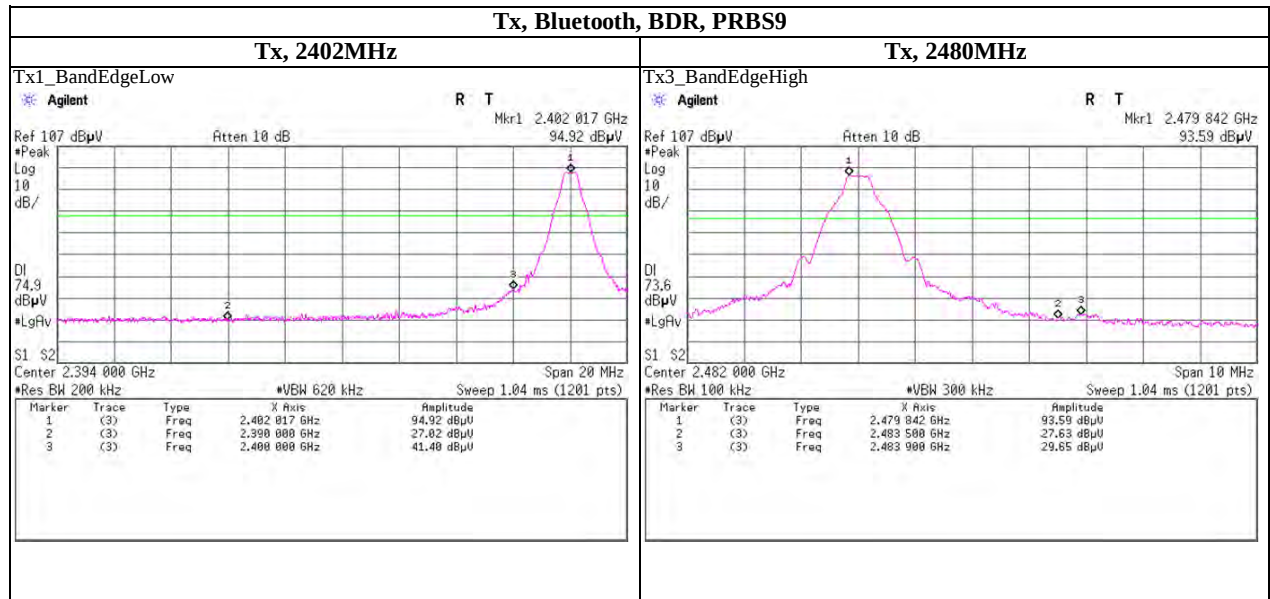
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

Tx, Bluetooth, EDR, PRBS9

Tx, 2480MHz (2/2)

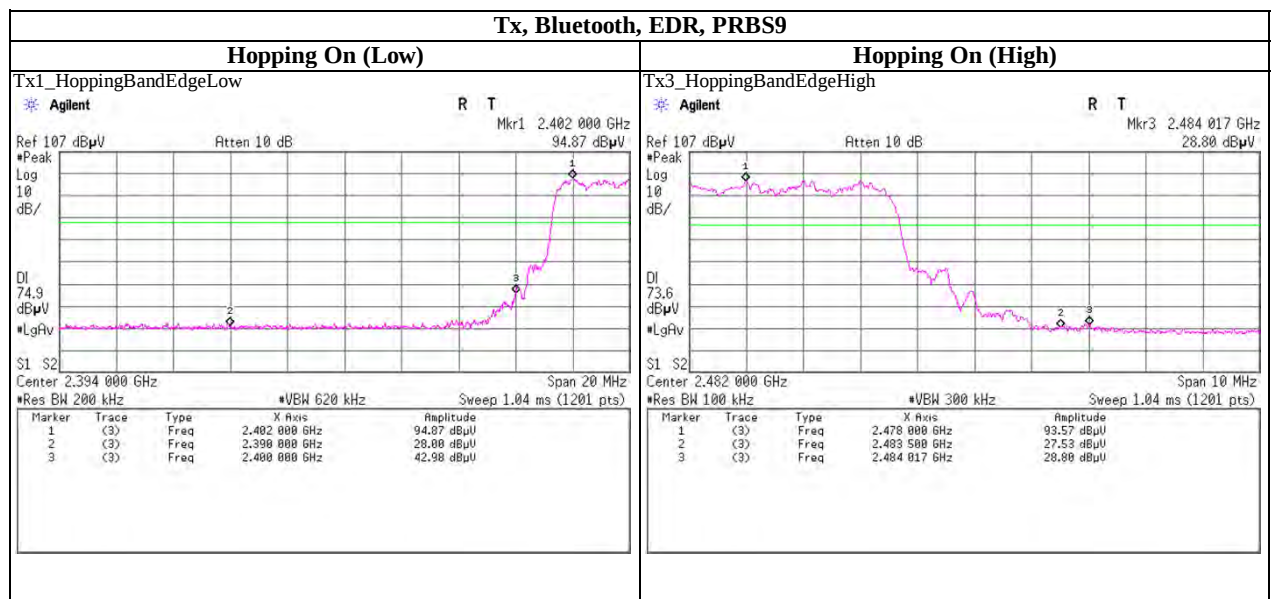
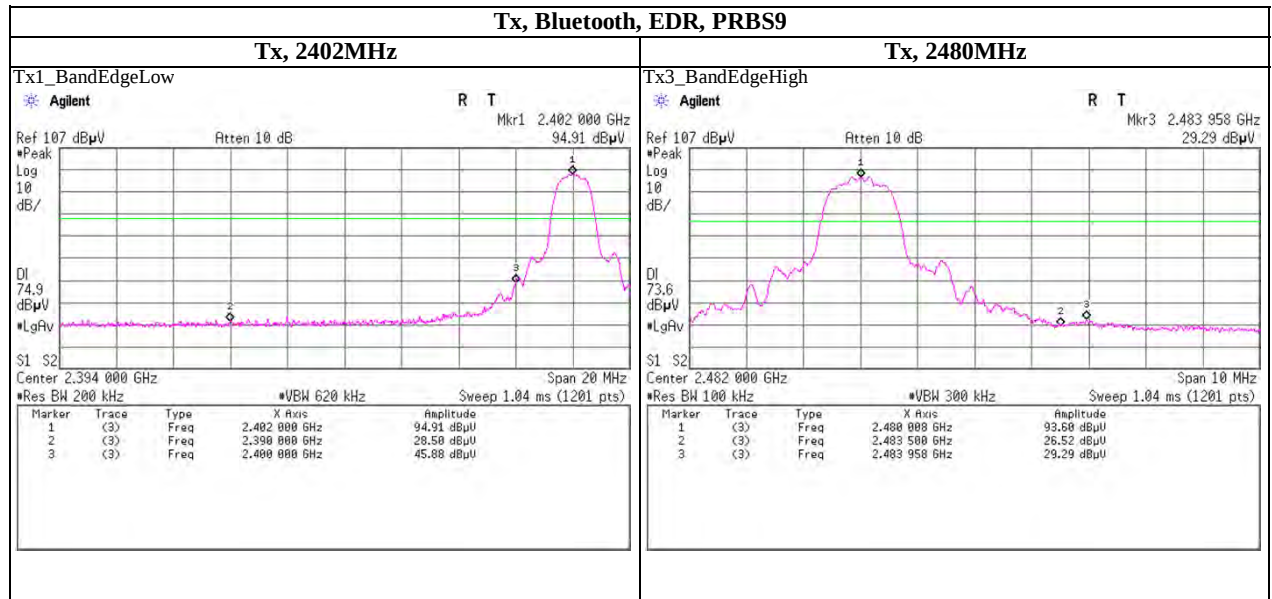


Spurious emission (Conducted)**Band Edge compliance****UL Japan, Inc.****Shonan EMC Lab.**

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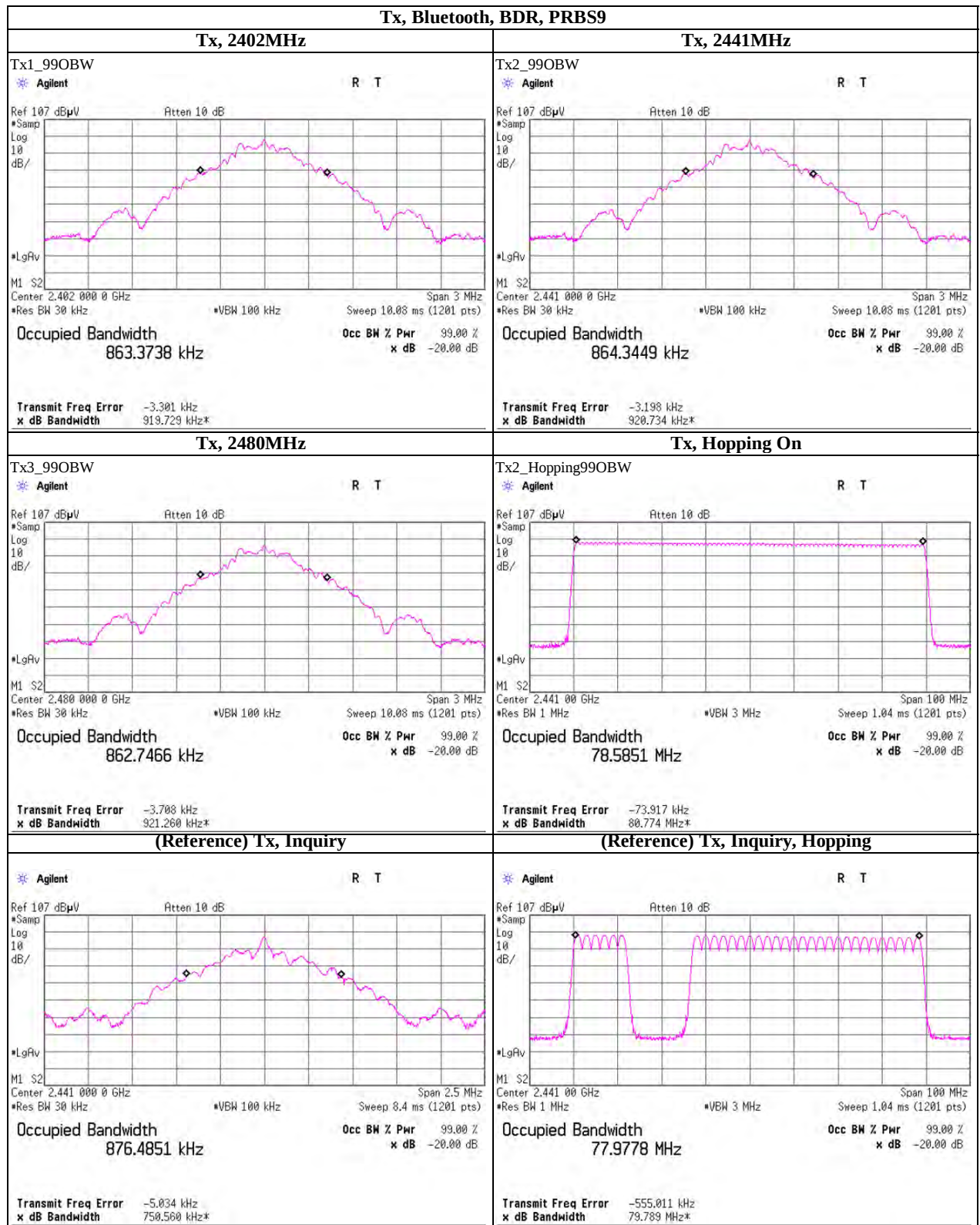
Spurious emission (Conducted)**Band Edge compliance****UL Japan, Inc.****Shonan EMC Lab.**

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99% Occupied Bandwidth



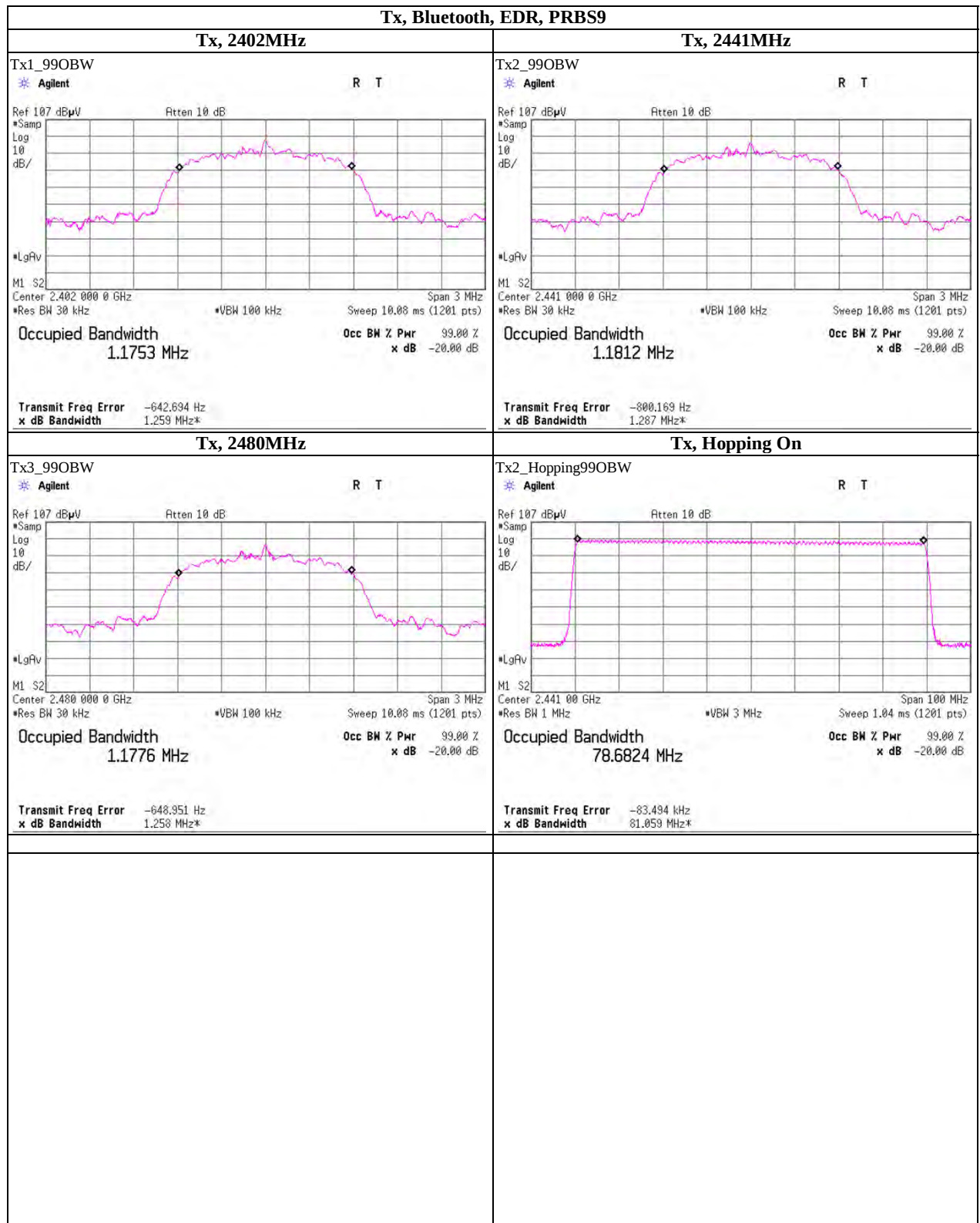
UL Japan, Inc.

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99% Occupied Bandwidth**UL Japan, Inc.****Shonan EMC Lab.**

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APPENDIX 2

Test Instruments

Page : 54 of 55
 Issued date : February 29, 2012
 FCC ID : AJDK052

EMI test equipment

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
SSA-03	Spectrum Analyzer	Agilent	E4448A	MY48250152	AT	12/05/2011 * 12
SCC-G12	Coaxial Cable	Suhner	SUCOFLEX 102	30790/2	AT	03/23/2011 * 12
SAT10-09	Attenuator	Weinschel Corp.	54A-10	W5692	AT	11/09/2011 * 12
SOS-09	Humidity Indicator	A&D	AD-5681	4061484	AT	03/02/2011 * 12
SAF-06	Pre Amplifier	TOYO Corporation	TPA0118-36	1440491	RE	07/19/2011 * 12
SCC-G03	Coaxial Cable	Suhner	SUCOFLEX 104A	46499/4A	RE	04/28/2011 * 12
SCC-G23	Coaxial Cable	Suhner	SUCOFLEX 104	297342/4	RE	05/27/2011 * 12
SHA-03	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-739	RE	08/28/2011 * 12
SOS-05	Humidity Indicator	A&D	AD-5681	4062518	RE	02/06/2012 * 12
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	RE	03/07/2011 * 12
SJM-10	Measure	PROMART	SEN1935	-	RE	-
COTS-SEMI-1	EMI Software	TSJ	TEPTO-DV(RE,CE, RFLMF)	-	RE	-
SAT10-05	Attenuator(above1GHz)	Agilent	8493C-010	74864	RE	12/27/2011 * 12
KFL-01	Highpass Filter	Hewlett Packard	84300 80038	004	RE	04/21/2011 * 12
SPM-06	Power Meter	Anritsu	ML2495A	0850009	AT	04/12/2011 * 12
SPSS-03	Power sensor	Anritsu	MA2411B	0917063	AT	04/12/2011 * 12
SSA-02	Spectrum Analyzer	Agilent	E4448A	MY48250106	RE	03/07/2011 * 12
SHA-04	Horn Antenna	ETS LINDGREN	3160-09	LM3640	RE	03/15/2011 * 12
SAF-08	Pre Amplifier	TOYO Corporation	HAP18-26W	00000019	RE	03/16/2011 * 12
SCC-G17	Coaxial Cable	Suhner	SUCOFLEX 104A	46291/4A	RE	03/16/2011 * 12
SAF-01	Pre Amplifier	SONOMA	310N	290211	RE	02/10/2012 * 12
SAT6-05	Attenuator	JFW	50HF-006N	-	RE	02/10/2012 * 12
SAT3-04	Attenuator	JFW	50HF-003N	-	RE	02/10/2012 * 12
SBA-01	Biconical Antenna	Schwarzbeck	BBA9106	91032664	RE	10/15/2011 * 12
SCC-A1/A3/A5/A7/A8/A13/SRSE-01	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-269(RF Selector)	RE	04/28/2011 * 12
SCC-A2/A4/A6/A7/A8/A13/SRSE-01	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-269(RF Selector)	RE	04/28/2011 * 12
SLA-01	Logperiodic Antenna	Schwarzbeck	UHALP9108A	UHALP 9108-A 0888	RE	11/23/2011 * 12
SOS-01	Humidity Indicator	A&D	AD-5681	4062555	RE	02/06/2012 * 12
STR-01	Test Receiver	Rohde & Schwarz	ESU40	100093	RE	10/22/2011 * 12
SJM-12	Measure	PROMART	SEN1935	-	RE	-
SAEC-01(NSA)	Semi-Anechoic Chamber	TDK	SAEC-01(NSA)	1	RE	09/01/2011 * 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 valid calibrations . Each measurement data is traceable to the national or international standards .

Test Item :

RE: Radiated emission ,

AT: Antenna terminal disturbance voltage