

20dB Bandwidth and Carrier Frequency Separation

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date 2009/12/9 2010/8/6
Temperature / Humidity 23deg.C. , 33% 22deg.C , 60%
Engineer Hikaru Shirasawa Makoto Hosaka
Mode Tx,

Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency Separation [MHz]
DH5	2402.0	0.935	1.003	>= 0.623
DH5	2441.0	0.935	1.003	>= 0.623
DH5	2480.0	0.938	1.008	>= 0.625
3DH5	2402.0	1.285	1.008	>= 0.857
3DH5	2441.0	1.278	1.000	>= 0.852
3DH5	2480.0	1.283	1.005	>= 0.855
Inquiry	2441.0	0.813	2.017	>= 0.542

Limit: Two-thirds of 20dB Bandwidth or 25kHz (whichever is greater).
No limit applies to 20dB Bandwidth.

UL Japan, Inc.

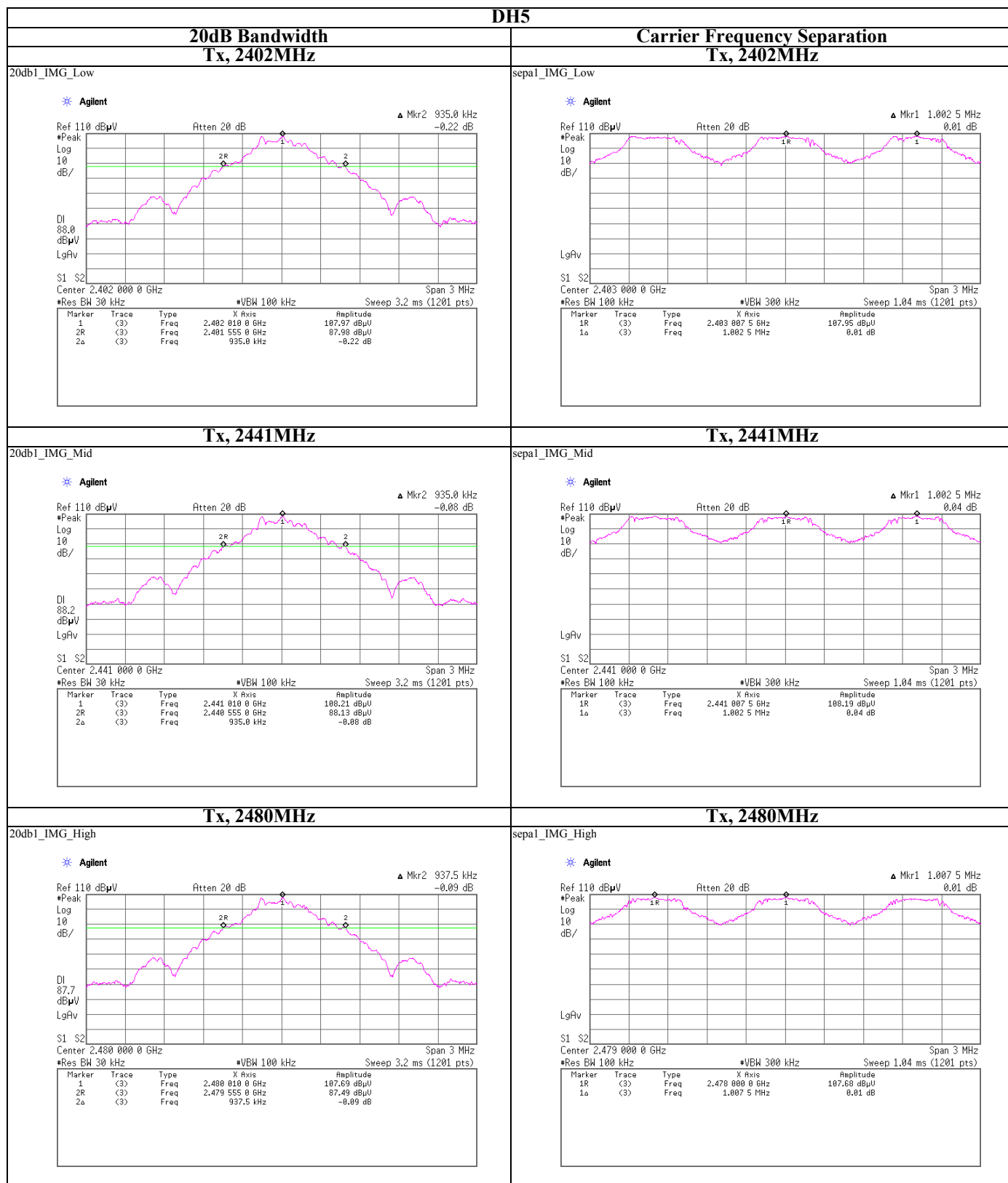
Shonan EMC Lab.

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Facsimile : +81 463 50 6401

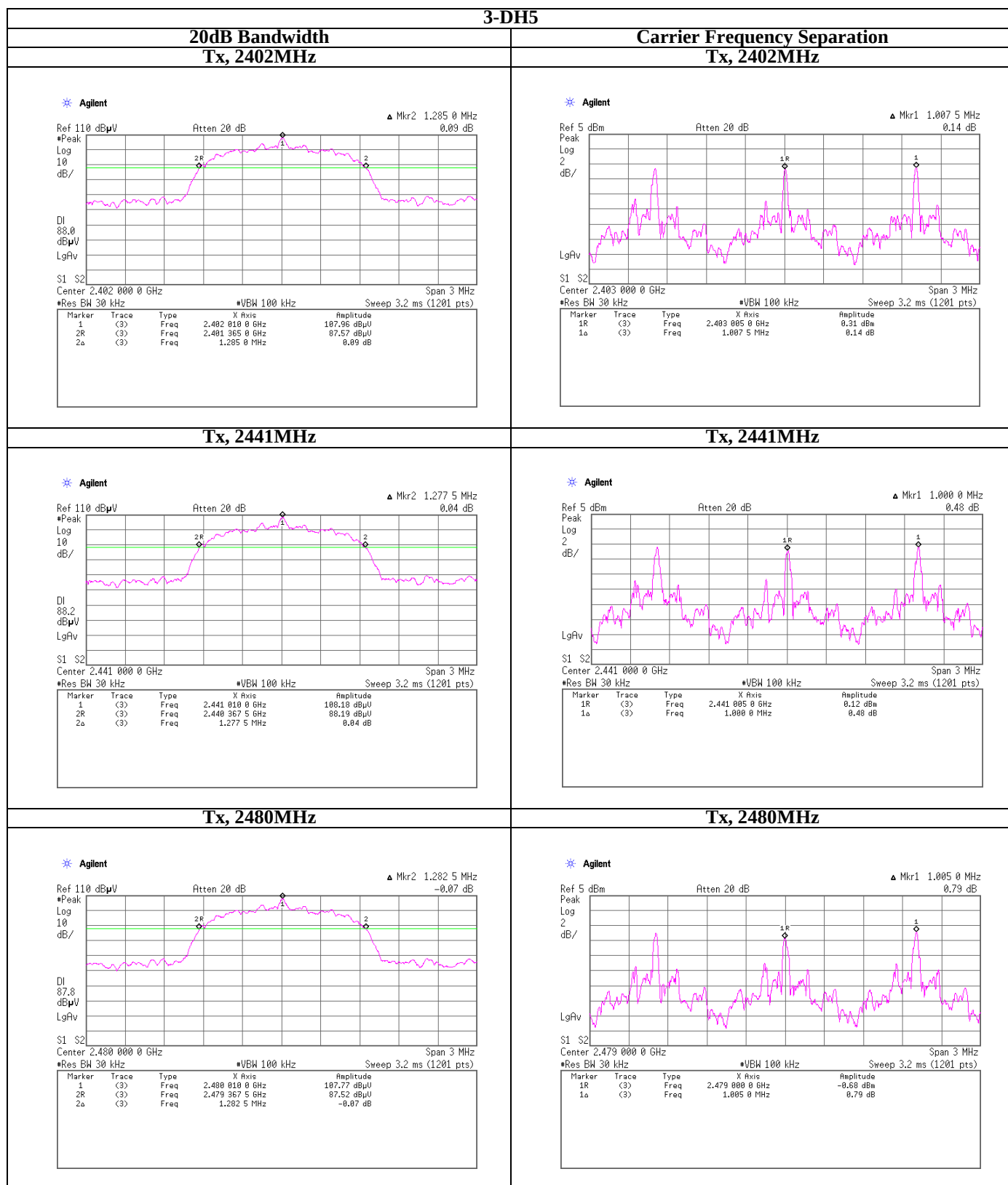
20dB Bandwidth and Carrier Frequency Separation



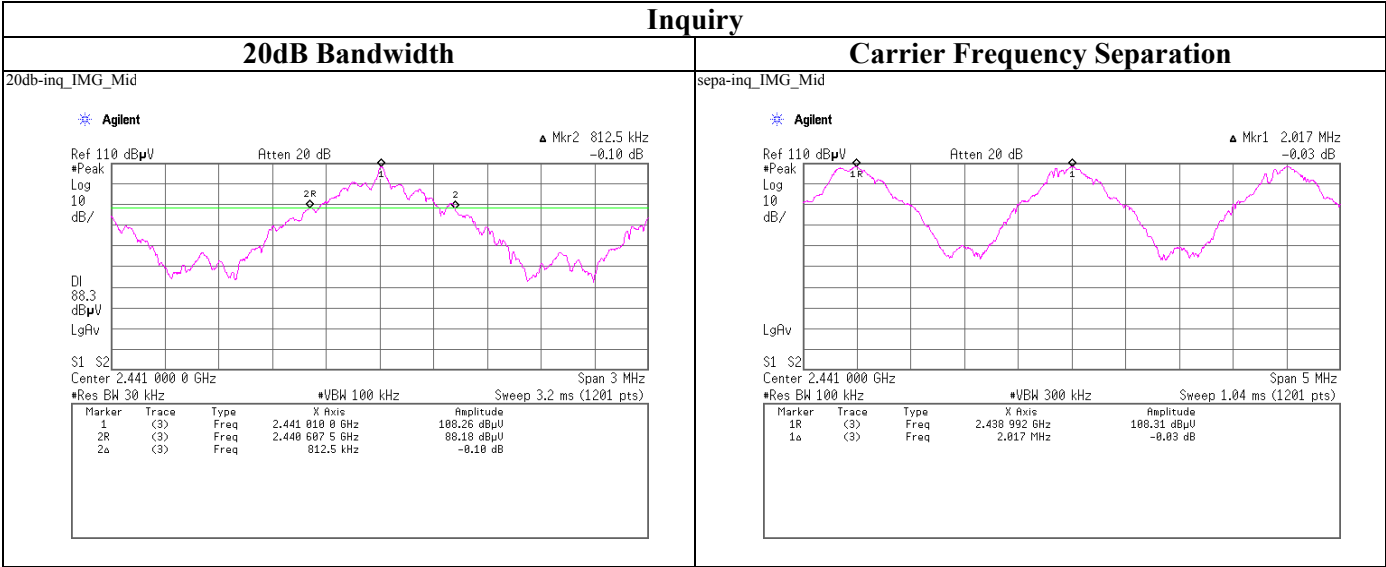
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20dB Bandwidth and Carrier Frequency Separation



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Number of Hopping Frequency (Conducted)

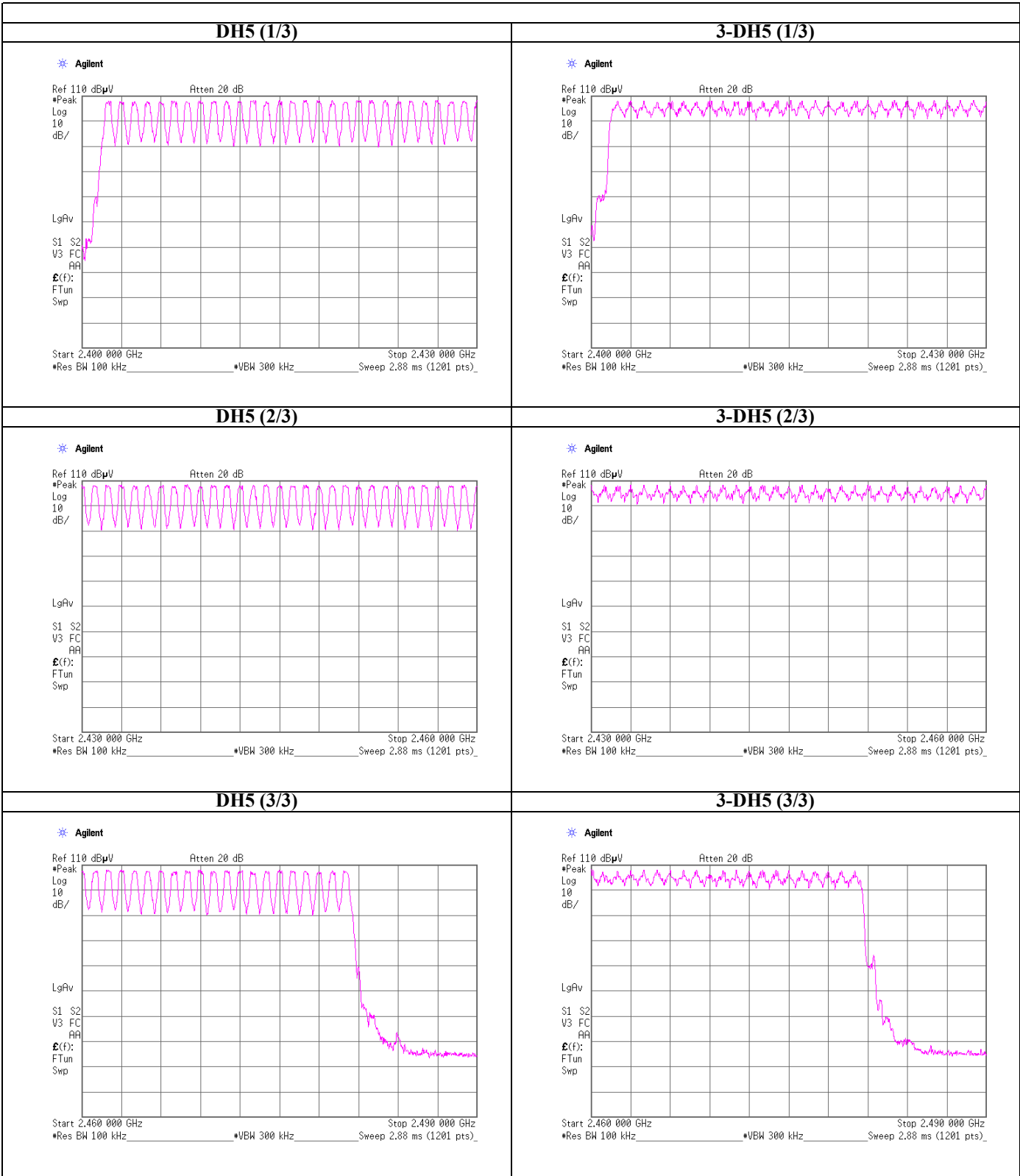
Test place UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date 2009/12/9
Temperature / Humidity 23deg.C. , 33%
Engineer Hikaru Shirasawa
Mode Tx,

Mode	Number of Channel [times]	Limit [times]
DH5	79	>=15
3-DH5	79	>=15
Inquiry	32	>=15

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Number of Hopping Frequency



Number of Hopping Frequency

Inquiry (1/3)	
Agilent Ref 110 dBμV Atten 20 dB Peak Log 10 dB/ LgAv S1 S2 V3 FC AA E(f): FTun Swp Start 2.400 000 GHz Stop 2.430 000 GHz Res BW 100 kHz VBW 300 kHz Sweep 2.88 ms (1201 pts)	
Inquiry (2/3)	
Agilent Ref 110 dBμV Atten 20 dB Peak Log 10 dB/ LgAv S1 S2 V3 FC AA E(f): FTun Swp Start 2.430 000 GHz Stop 2.460 000 GHz Res BW 100 kHz VBW 300 kHz Sweep 2.88 ms (1201 pts)	
Inquiry (3/3)	
Agilent Ref 110 dBμV Atten 20 dB Peak Log 10 dB/ LgAv S1 S2 V3 FC AA E(f): FTun Swp Start 2.460 000 GHz Stop 2.490 000 GHz Res BW 100 kHz VBW 300 kHz Sweep 2.88 ms (1201 pts)	

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Dwell Time (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
 Date 2009/12/9
 Temperature / Humidity 23deg.C. , 33%
 Engineer Hikaru Shirasawa
 Mode Tx,

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	49.8 times / 5 sec. x 31.6 sec. = 315 times	0.452	142	400
DH3	26.0 times / 5 sec. x 31.6 sec. = 165 times	1.708	282	400
DH5	18.2 times / 5 sec. x 31.6 sec. = 116 times	2.960	343	400
3DH1	49.0 times / 5 sec. x 31.6 sec. = 310 times	0.448	139	400
3DH3	25.4 times / 5 sec. x 31.6 sec. = 161 times	1.698	273	400
3DH5	15.6 times / 5 sec. x 31.6 sec. = 99 times	2.960	293	400
Inquiry	100.0 times / 1 sec. x 12.8 sec. = 1280 times	0.142	182	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	48	51	50	50	50	49.8
DH3	26	29	27	21	27	26
DH5	17	17	22	17	18	18.2
3DH1	47	49	51	51	47	49
3DH3	18	23	30	27	29	25.4
3DH5	13	17	16	14	18	15.6
Inquiry	100	100	100	100	100	100.0

Sample Calculation

Average= Summation(Sampling 1 to 5) / 5

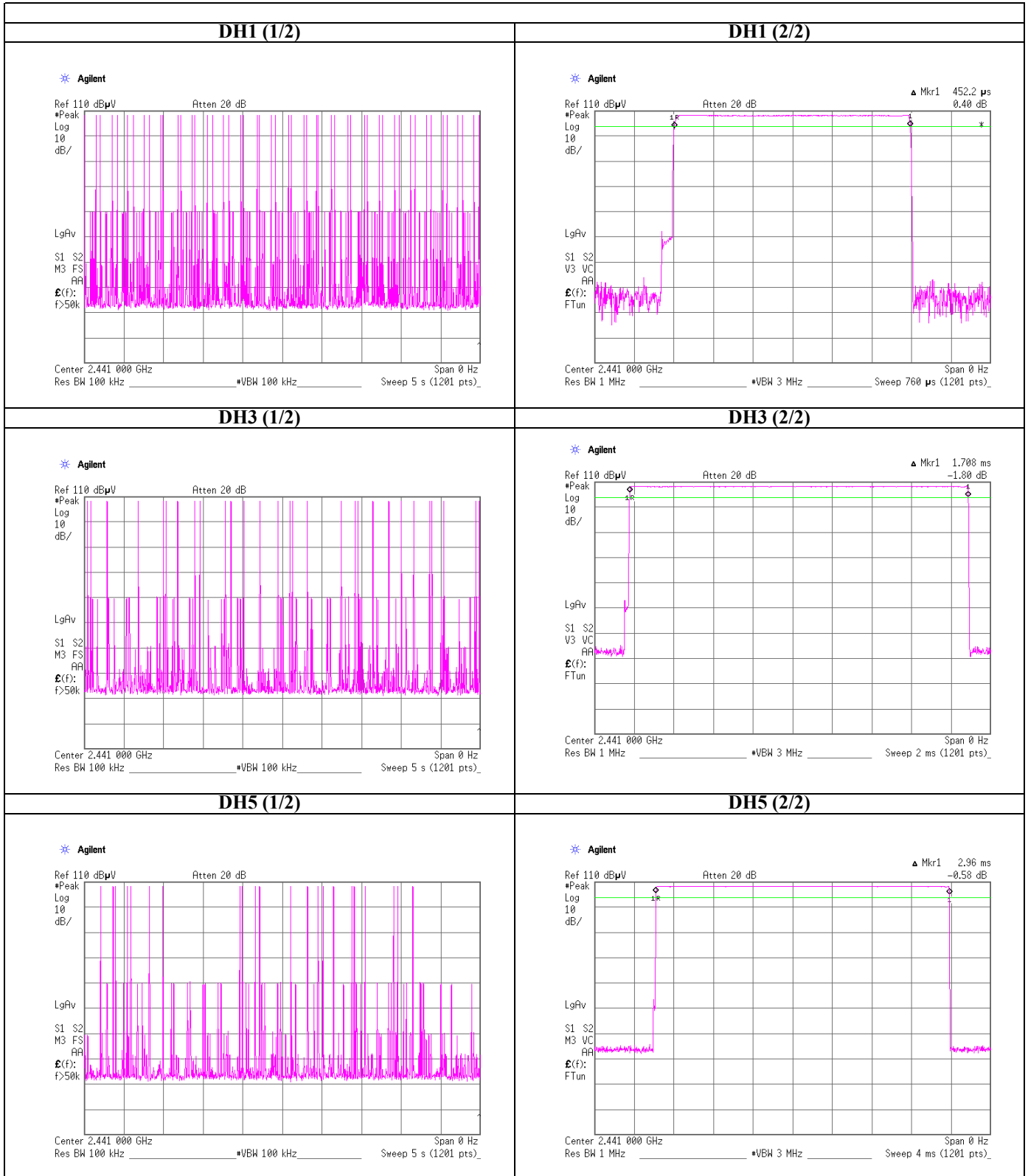
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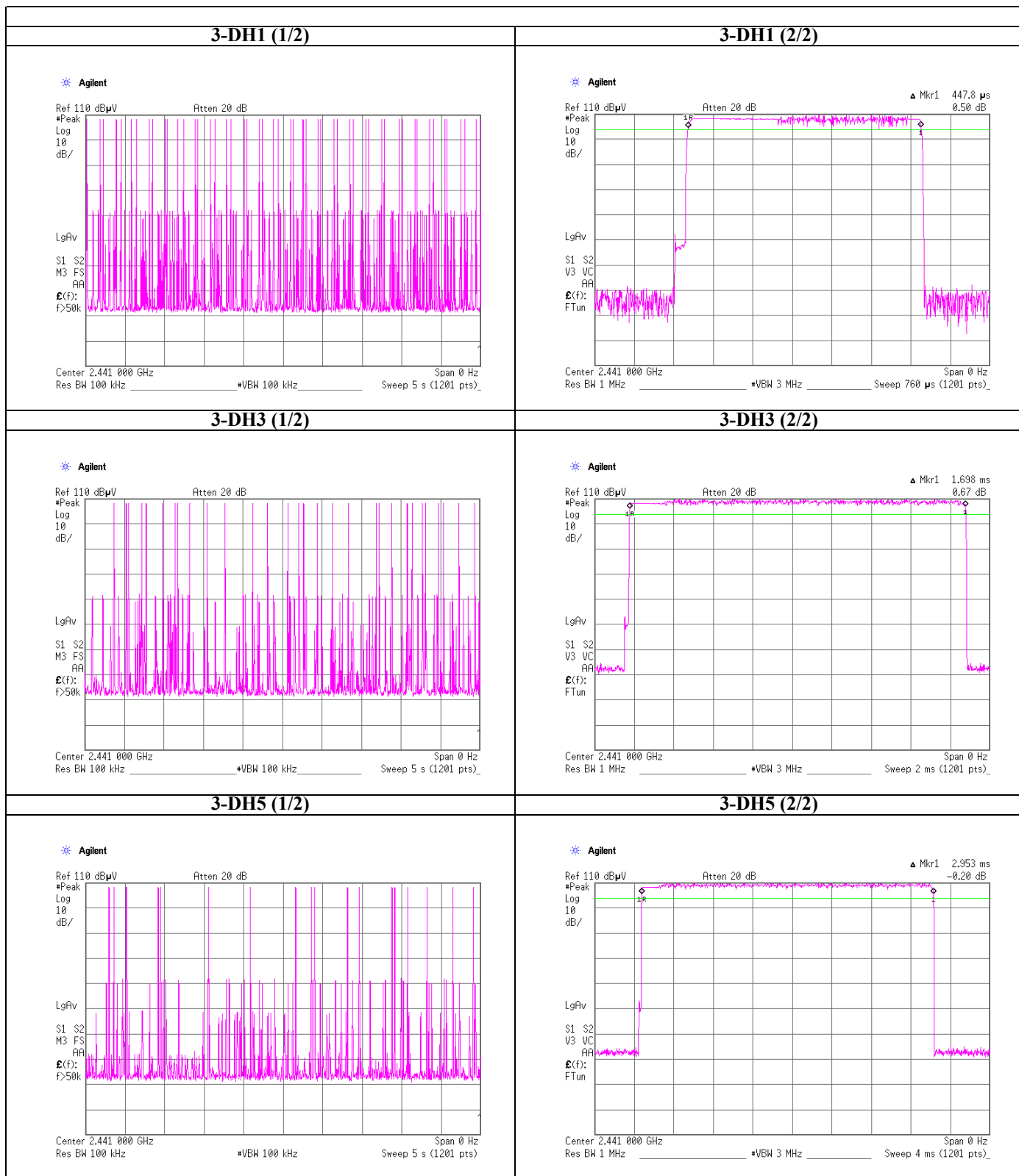
Dwell time



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Dwell time



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Dwell time

Inquiry (1/2)	Inquiry (2/2)
Agilent Ref 110 dBμV Atten 20 dB Peak Log 10 dB/ LgAv S1 S2 V3 FS AR Ⓔ(f): f>50k Center 2.441 000 GHz Res BW 100 kHz Span 0 Hz Sweep 1 s (1201 pts)	Agilent Ref 110 dBμV Atten 20 dB Peak Log 10 dB/ LgAv S1 S2 V3 VC AR Ⓔ(f): FTun Center 2.441 000 GHz Res BW 1 MHz Span 0 Hz Sweep 300 μs (1201 pts) ▲ Mkr1 142 μs 0.24 dB

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Peak Output Power (Conducted)

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Date 2009/12/9
Temperature / Humidity 23deg.C. , 33%
Engineer Hikaru Shirasawa
Mode Tx,

BDR (DH5)

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	1.83	0.70	0.00	2.53	1.79	20.97	125	18.44
Mid	2441.0	1.89	0.70	0.00	2.59	1.82	20.97	125	18.38
High	2480.0	1.45	0.70	0.00	2.15	1.64	20.97	125	18.82

EDR (2-DH5)

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	3.12	0.70	0.00	3.82	2.41	20.97	125	17.15
Mid	2441.0	3.19	0.70	0.00	3.89	2.45	20.97	125	17.08
High	2480.0	2.80	0.70	0.00	3.50	2.24	20.97	125	17.47

EDR (3-DH5)

Ch	Freq. [MHz]	P/M Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
Low	2402.0	3.43	0.70	0.00	4.13	2.59	20.97	125	16.84
Mid	2441.0	3.50	0.70	0.00	4.20	2.63	20.97	125	16.77
High	2480.0	3.10	0.70	0.00	3.80	2.40	20.97	125	17.17

Sample Calculation:

Result = Reading + Cable Loss (SCC-G12) + 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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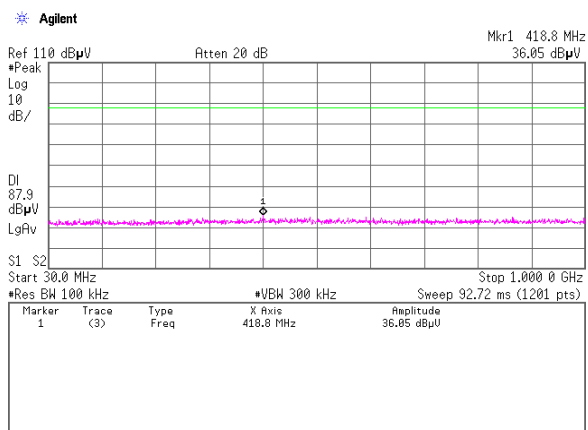
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Spurious emission (Conducted)

DH5,
Tx, 2402MHz

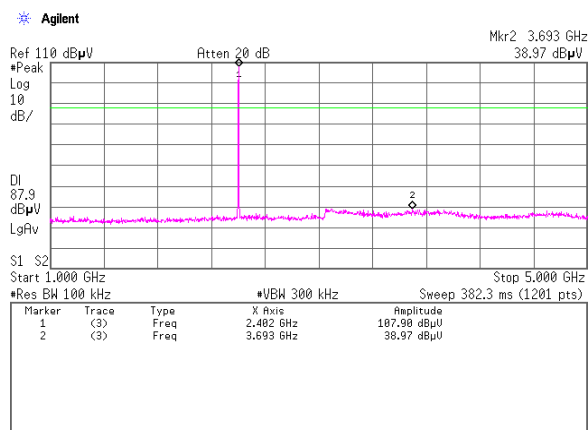
30MHz - 1GHz

Low1-SE2_IMG_Low



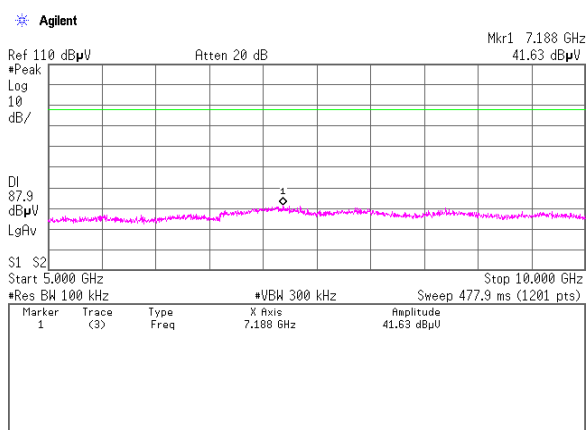
1GHz - 5GHz

Low1-SE1_IMG_Low



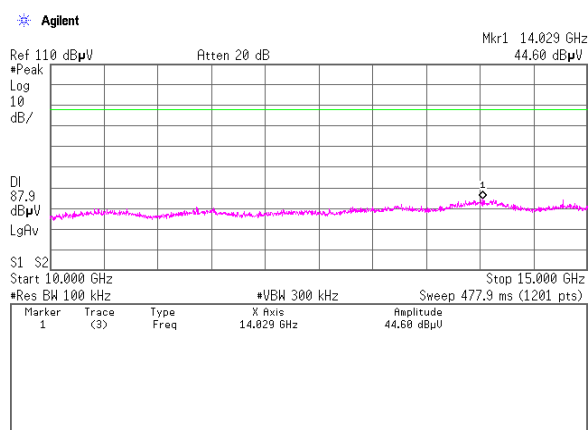
5GHz - 10GHz

Low1-SE3_IMG_Low



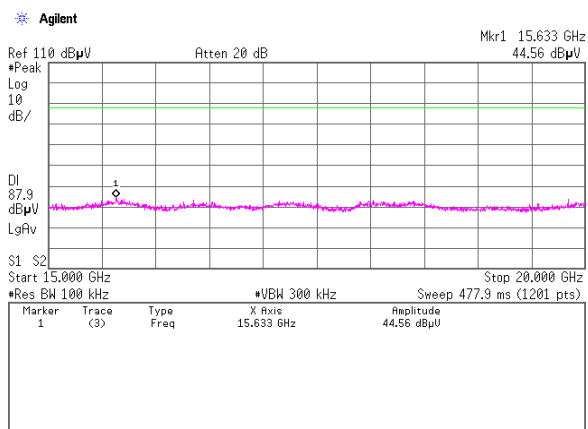
10GHz - 15GHz

Low1-SE4_IMG_Low



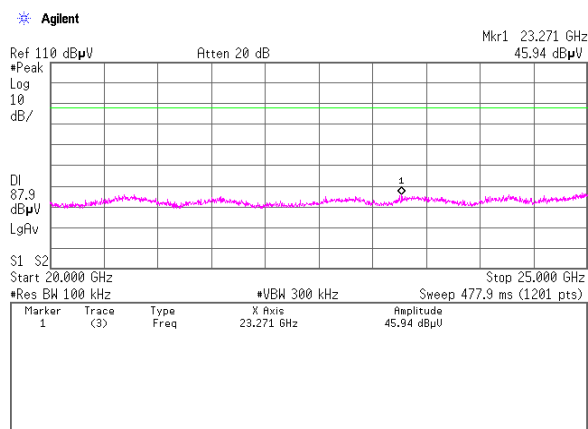
15GHz - 20GHz

Low1-SE5_IMG_Low



20GHz - 25GHz

Low1-SE6_IMG_Low



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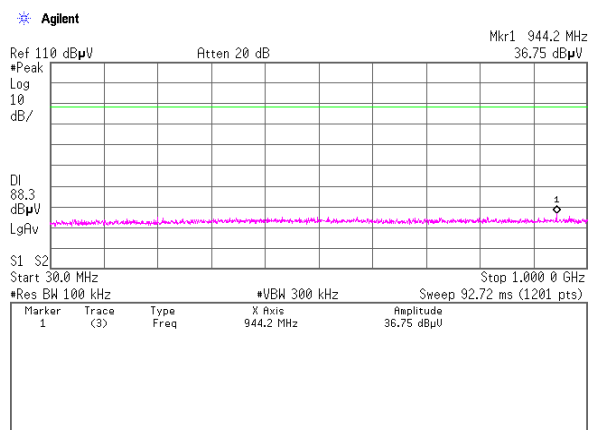
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Spurious emission (Conducted)

DH5,
Tx, 2441MHz

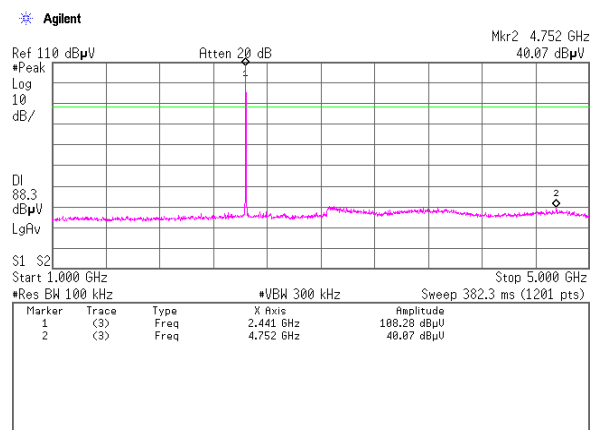
30MHz - 1GHz

Mid1-SE2_IMG_Low



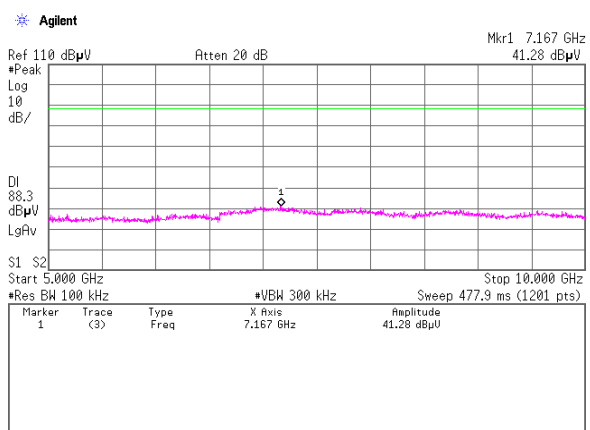
1GHz - 5GHz

Mid1-SE1_IMG_Low



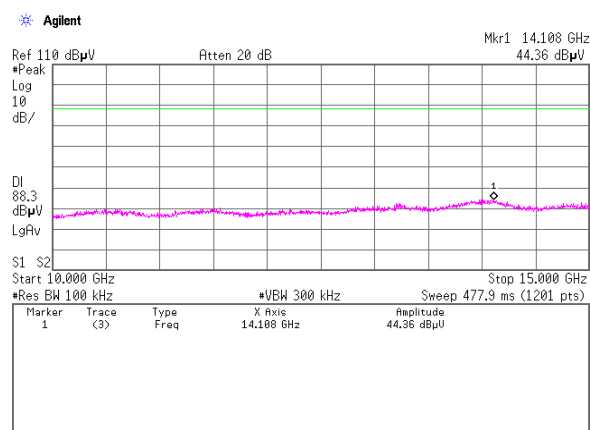
5GHz - 10GHz

Mid1-SE3_IMG_Low



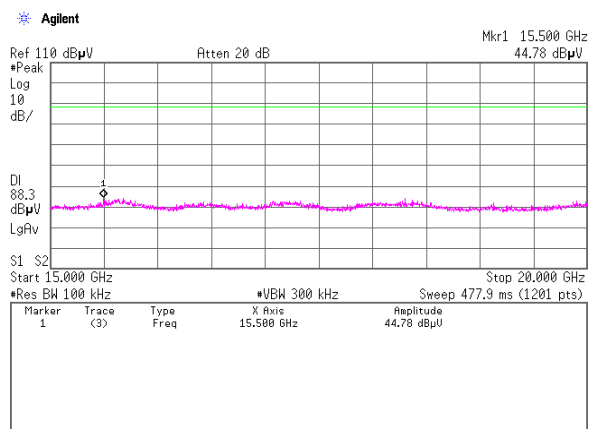
10GHz - 15GHz

Mid1-SE4_IMG_Low



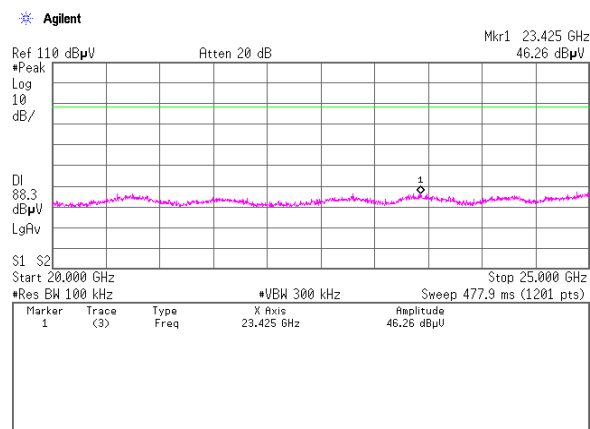
15GHz - 20GHz

Mid1-SE5_IMG_Low



20GHz - 25GHz

Mid1-SE6_IMG_Low



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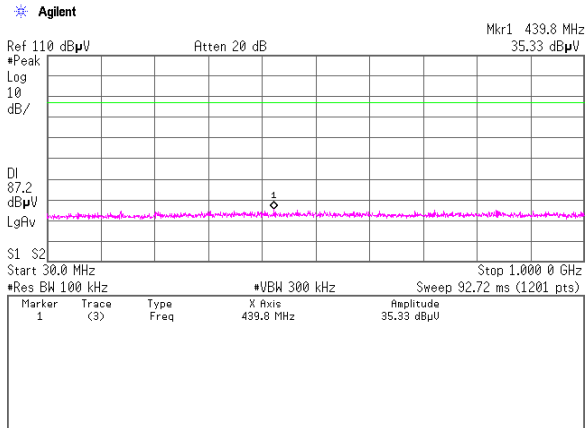
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Spurious emission (Conducted)

DH5,
Tx, 2480MHz

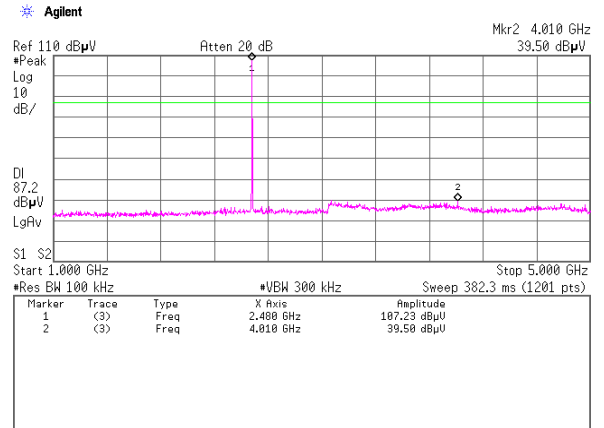
30MHz - 1GHz

High1-SE2_IMG_Low



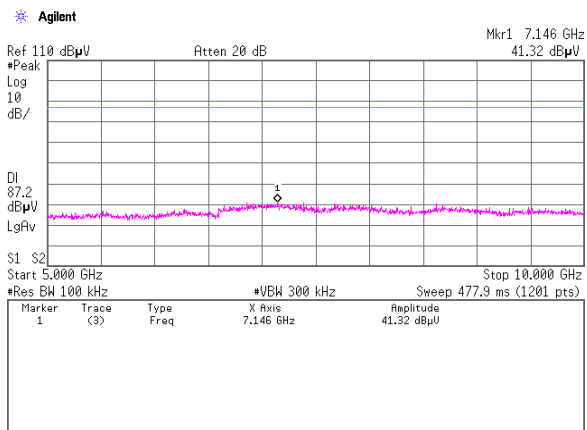
1GHz - 5GHz

High1-SE1_IMG_Low



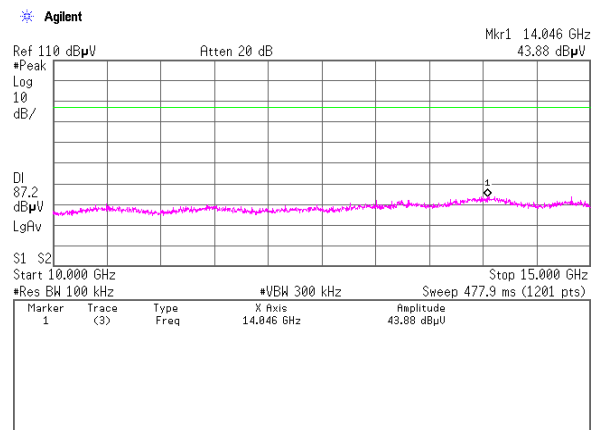
5GHz - 10GHz

High1-SE3_IMG_Low



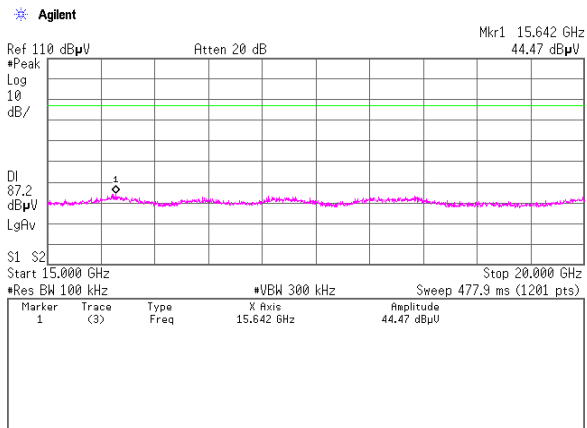
10GHz - 15GHz

High1-SE4_IMG_Low



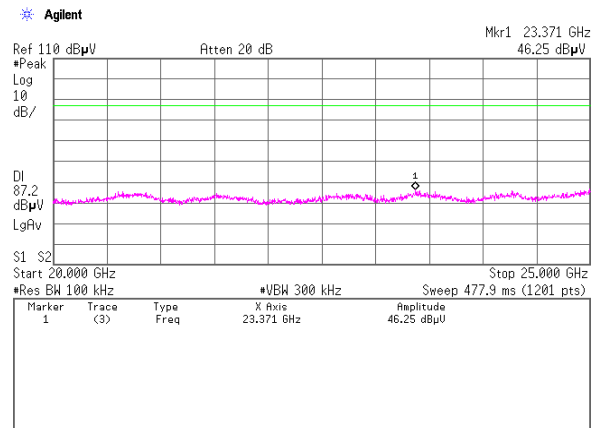
15GHz - 20GHz

High1-SE5_IMG_Low



20GHz - 25GHz

High1-SE6_IMG_Low



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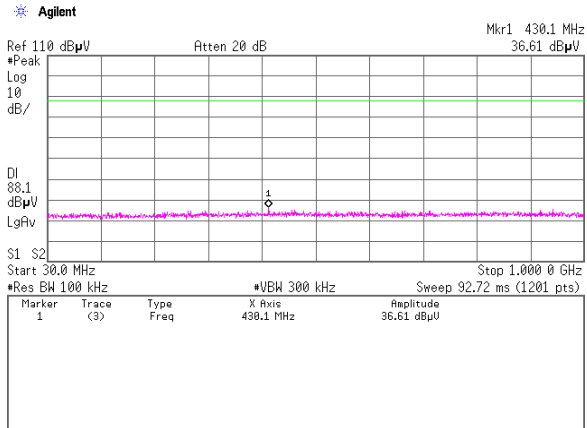
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Spurious emission (Conducted)

DH5,
Hopping

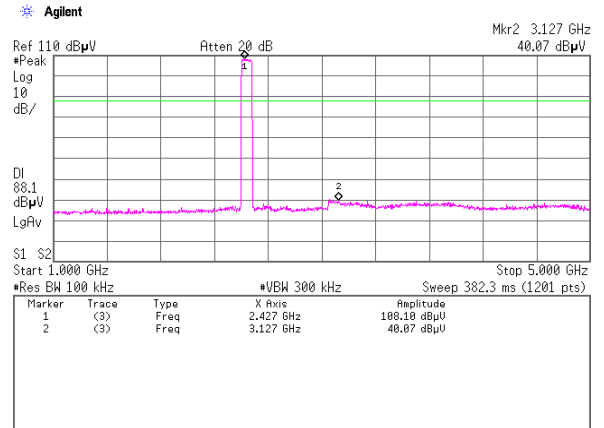
30MHz - 1GHz

Mid2Rx-SE2_IMG_Low



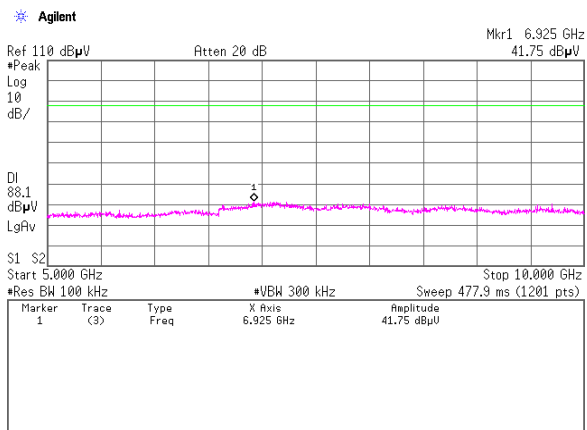
1GHz - 5GHz

Mid2Rx-SE1_IMG_Low



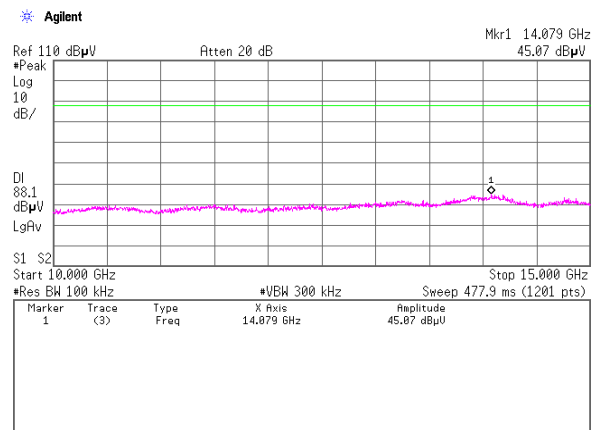
5GHz - 10GHz

Mid2Rx-SE3_IMG_Low



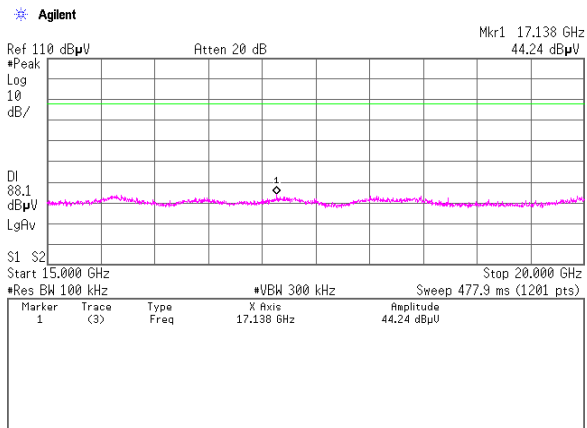
10GHz - 15GHz

Mid2Rx-SE4_IMG_Low



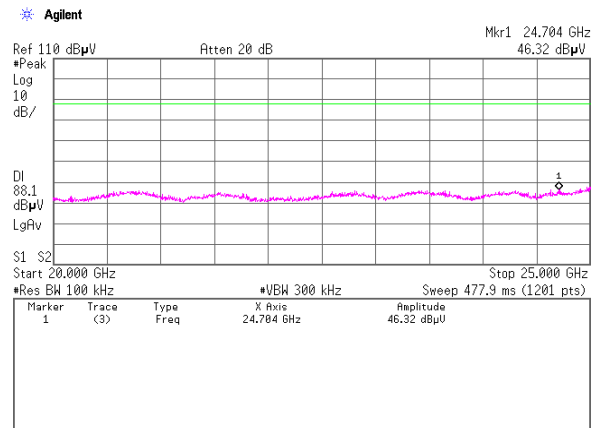
15GHz - 20GHz

Mid2Rx-SE5_IMG_Low



20GHz - 25GHz

Mid2Rx-SE6_IMG_Low



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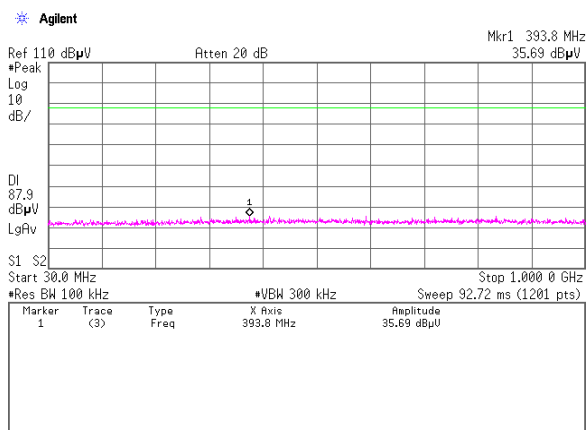
Spurious emission (Conducted)

3-DH5,

Tx, 2402MHz

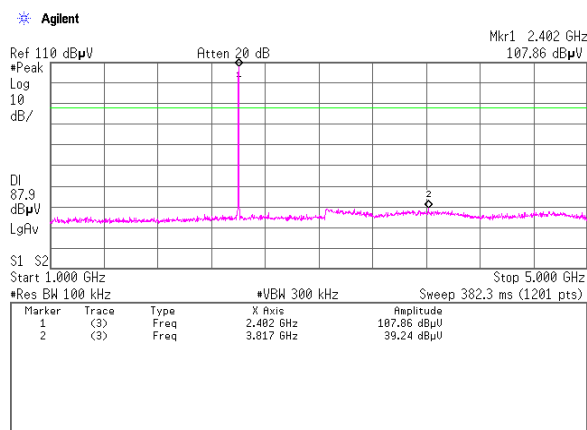
30MHz - 1GHz

Low2-SE2_IMG_Low



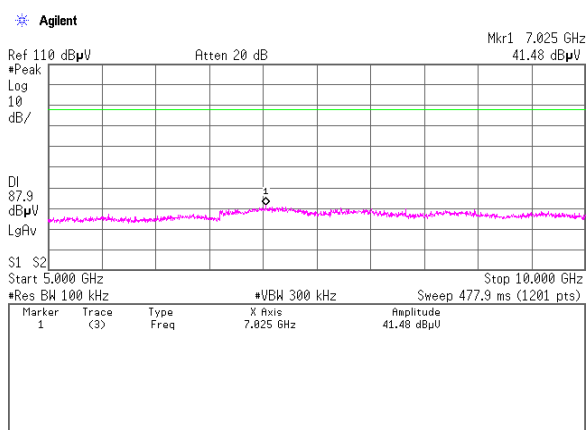
1GHz - 5GHz

Low2-SE1_IMG_Low



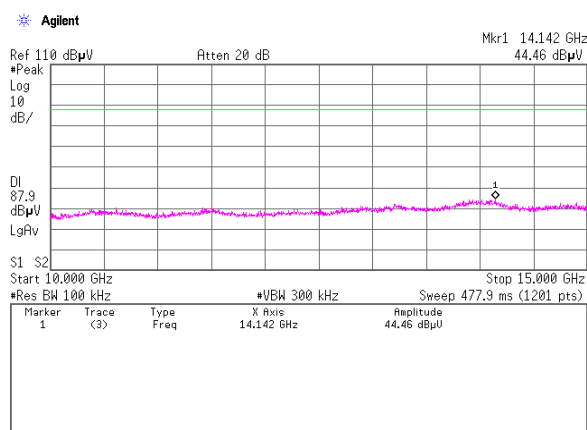
5GHz - 10GHz

Low2-SE3_IMG_Low



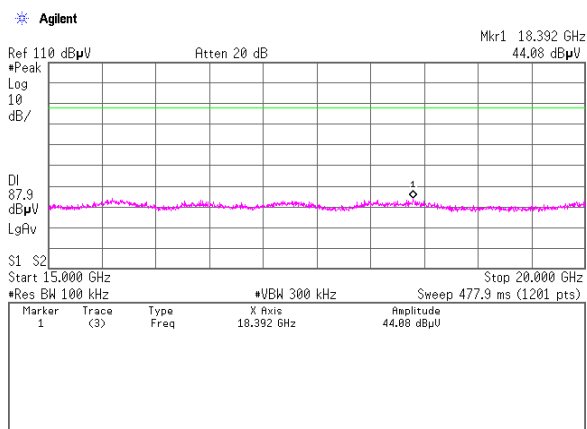
10GHz - 15GHz

Low2-SE4_IMG_Low



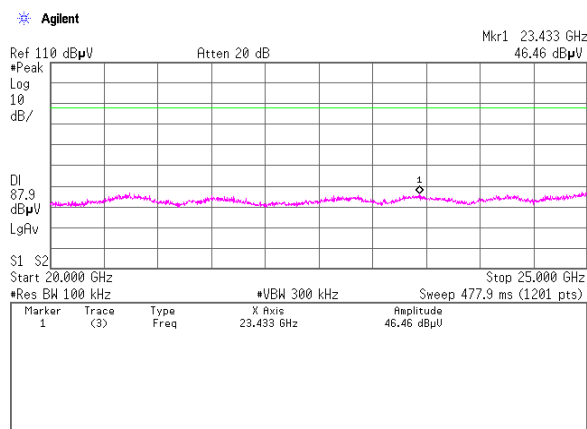
15GHz - 20GHz

Low2-SE5_IMG_Low



20GHz - 25GHz

Low2-SE6_IMG_Low



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Shonan EMC Lab.

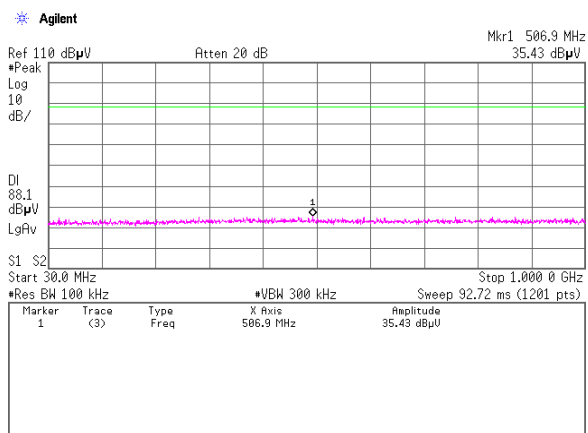
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Spurious emission (Conducted)

3-DH5,
Tx, 2441MHz

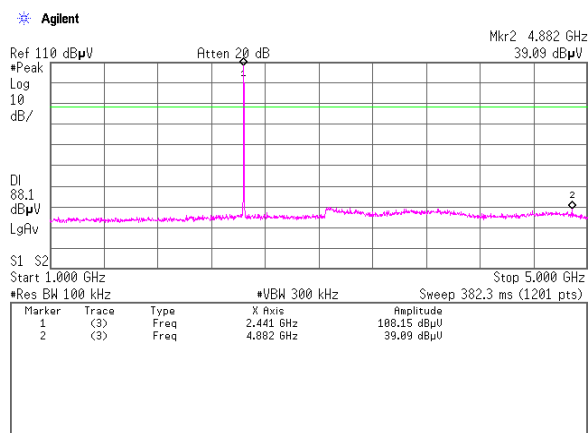
30MHz - 1GHz

Mid2-SE2_IMG_Low



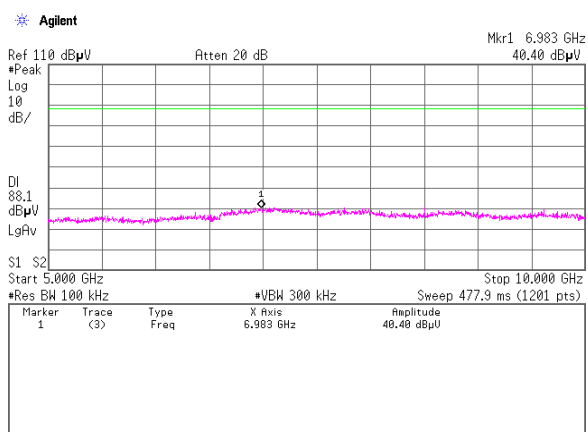
1GHz - 5GHz

Mid2-SE1_IMG_Low



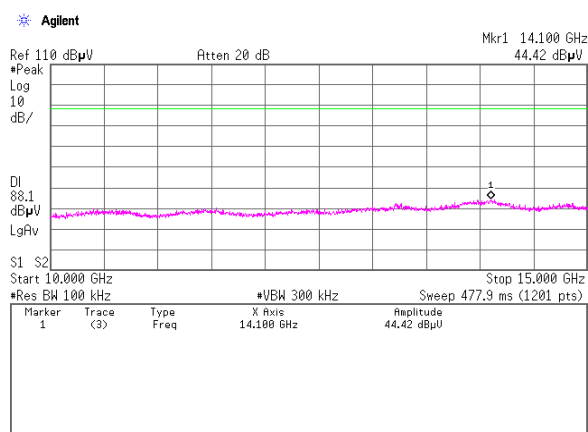
5GHz - 10GHz

Mid2-SE3_IMG_Low



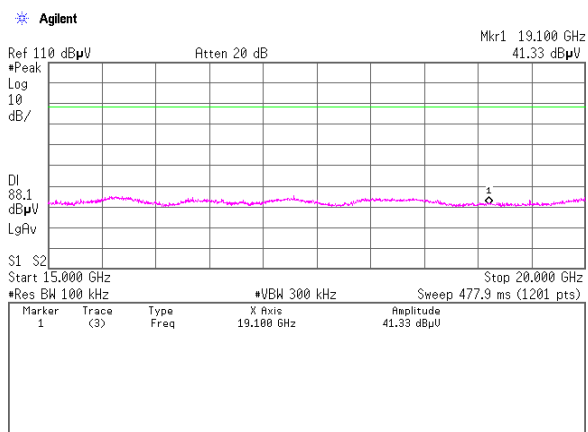
10GHz - 15GHz

Mid2-SE4_IMG_Low



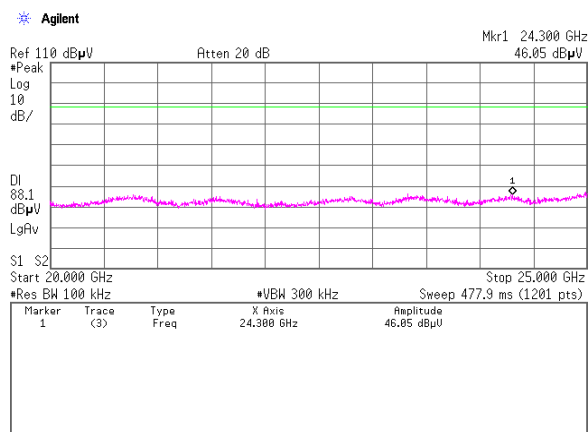
15GHz - 20GHz

Mid2-SE5_IMG_Low



20GHz - 25GHz

Mid2-SE6_IMG_Low



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Shonan EMC Lab.

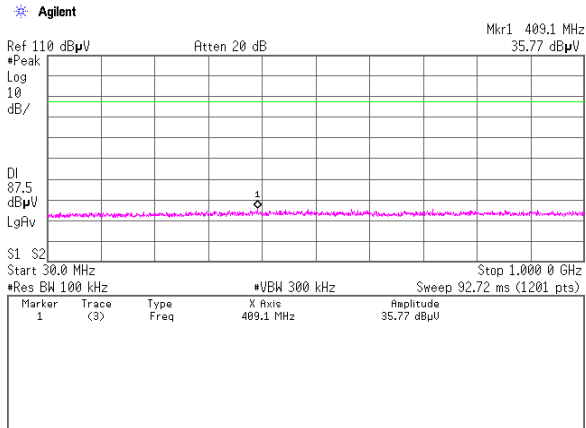
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Spurious emission (Conducted)

3-DH5,
Tx, 2480MHz

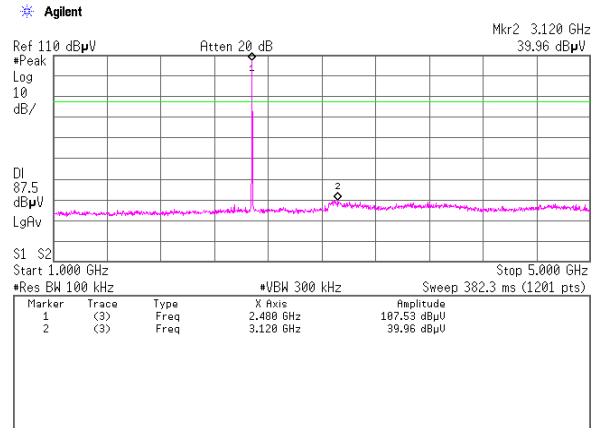
30MHz - 1GHz

High2-SE2_IMG_Low



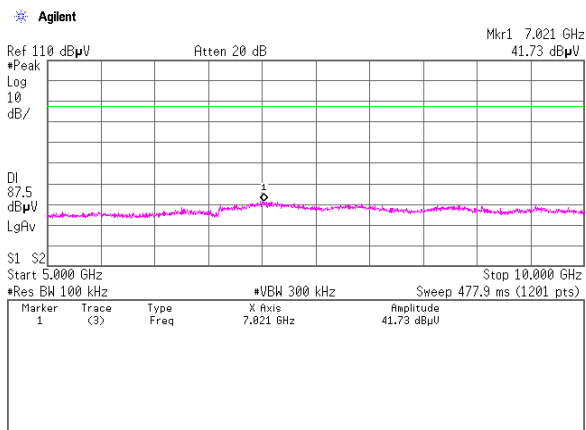
1GHz - 5GHz

High2-SE1_IMG_Low



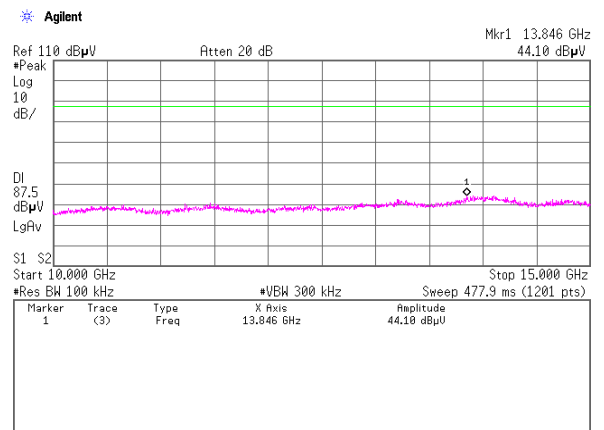
5GHz - 10GHz

High2-SE3_IMG_Low



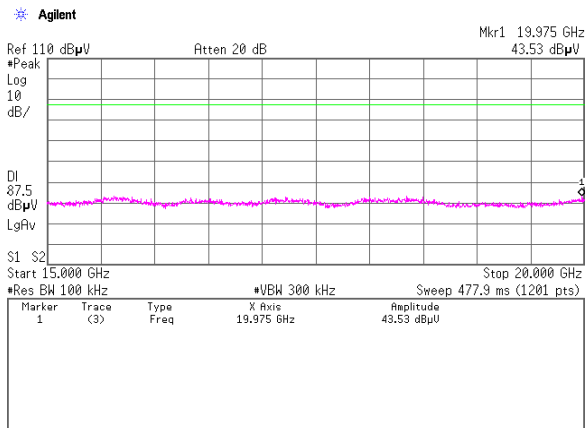
10GHz - 15GHz

High2-SE4_IMG_Low



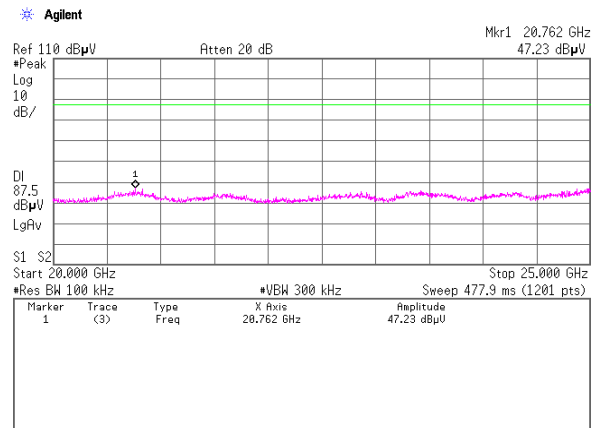
15GHz - 20GHz

High2-SE5_IMG_Low



20GHz - 25GHz

High2-SE6_IMG_Low



UL Japan, Inc.
Shonan EMC Lab.

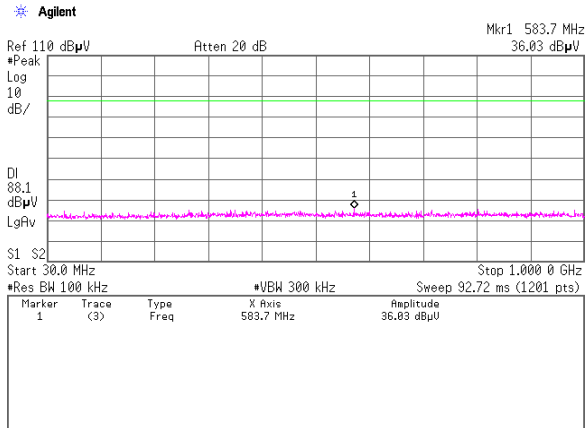
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

3-DH5,
Hopping

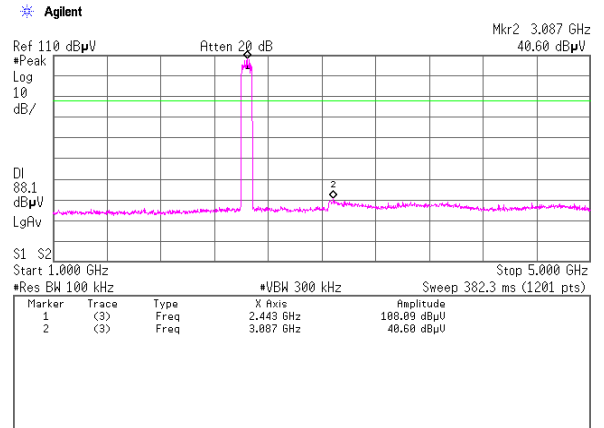
30MHz - 1GHz

Mid2Rx-SE2_IMG_Low



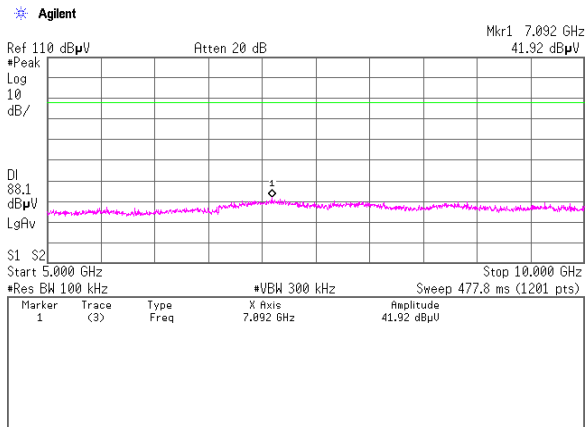
1GHz - 5GHz

Mid2Rx-SE1_IMG_Low



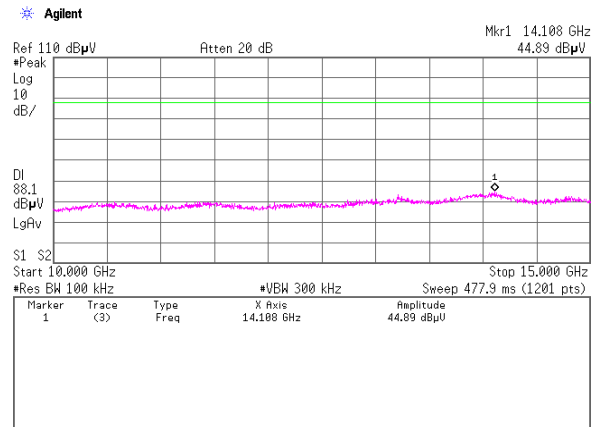
5GHz - 10GHz

Mid2Rx-SE3_IMG_Low



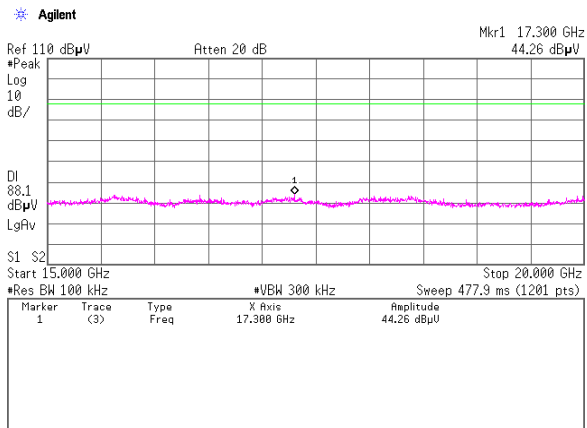
10GHz - 15GHz

Mid2Rx-SE4_IMG_Low



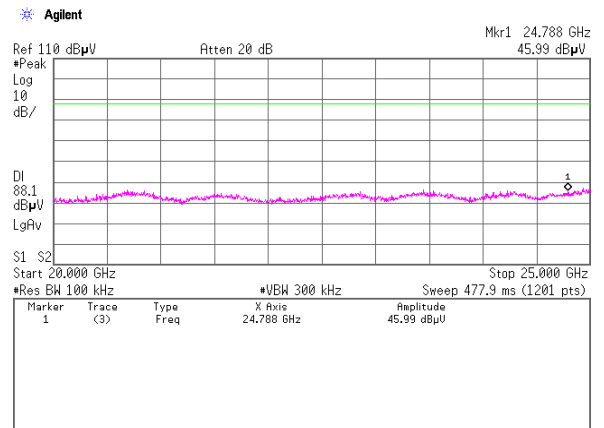
15GHz - 20GHz

Mid2Rx-SE5_IMG_Low



20GHz - 25GHz

Mid2Rx-SE6_IMG_Low



UL Japan, Inc.
Shonan EMC Lab.

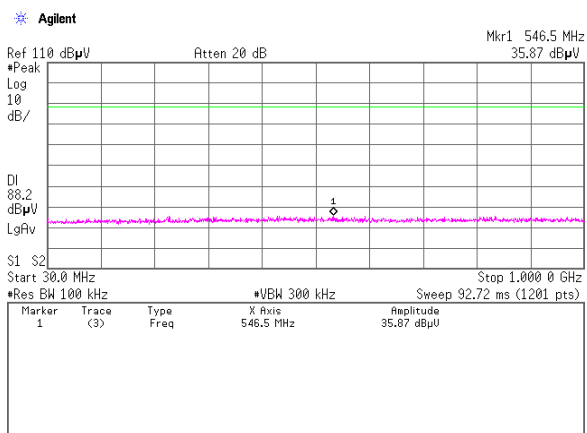
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

Inquiry

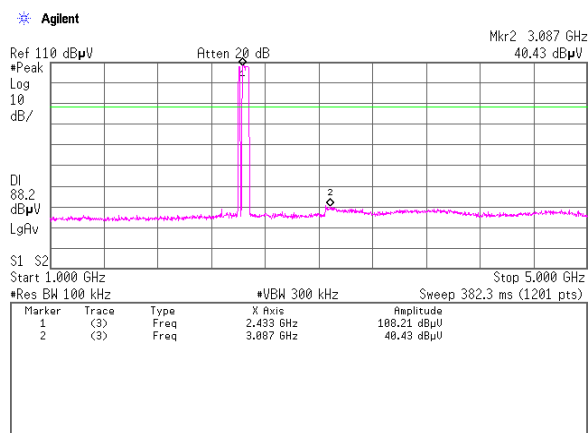
30MHz - 1GHz

Mid2Rx-SE2_IMG_Low



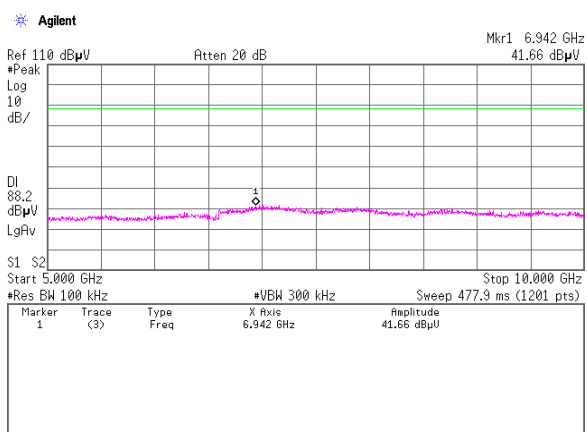
1GHz - 5GHz

Mid2Rx-SE1_IMG_Low



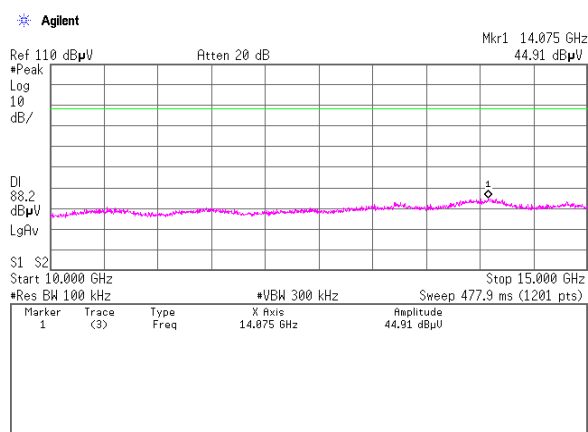
5GHz - 10GHz

Mid2Rx-SE3_IMG_Low



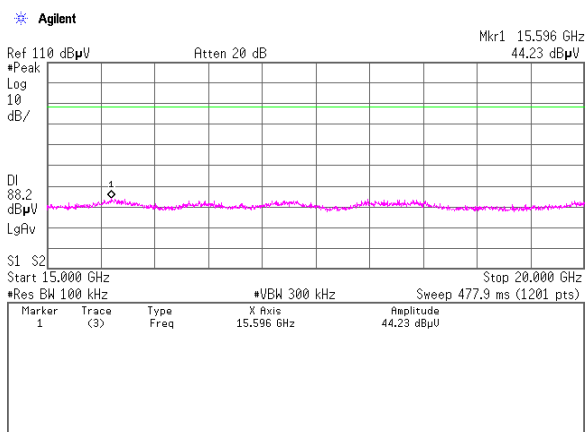
10GHz - 15GHz

Mid2Rx-SE4_IMG_Low



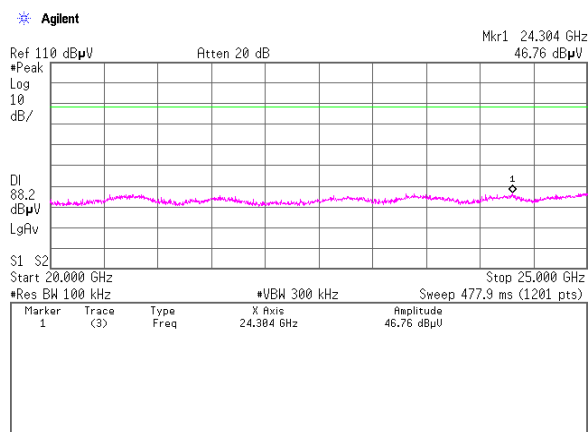
15GHz - 20GHz

Mid2Rx-SE5_IMG_Low



20GHz - 25GHz

Mid2Rx-SE6_IMG_Low



UL Japan, Inc.
Shonan EMC Lab.

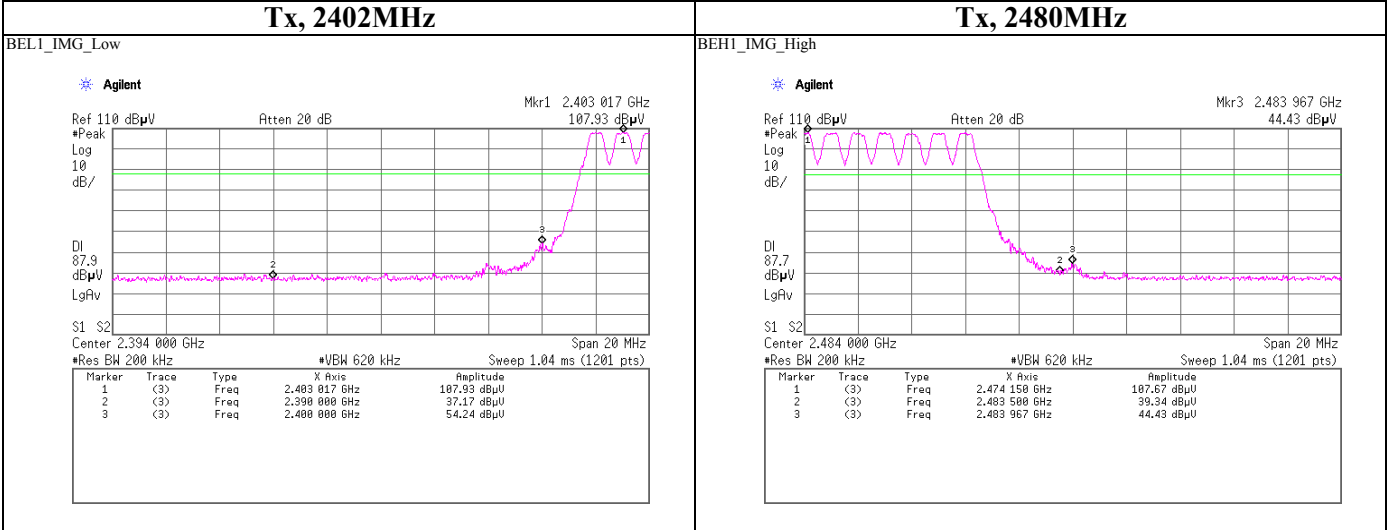
1-22-3 Megumigaoka, Hiratsuka-shi, Kanagawa 259-1220 JAPAN
Telephone : +81 463 50 6400
Facsimile : +81 463 50 6401

Spurious emission (Conducted)

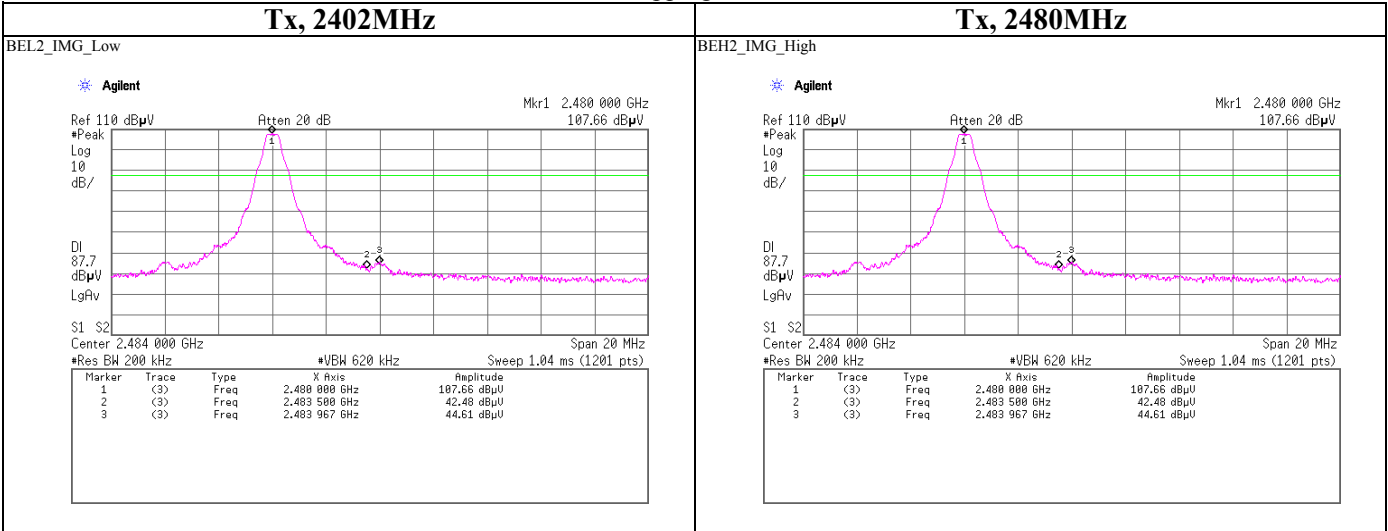
Band Edge compliance

DH5,

Hopping ON



Hopping OFF

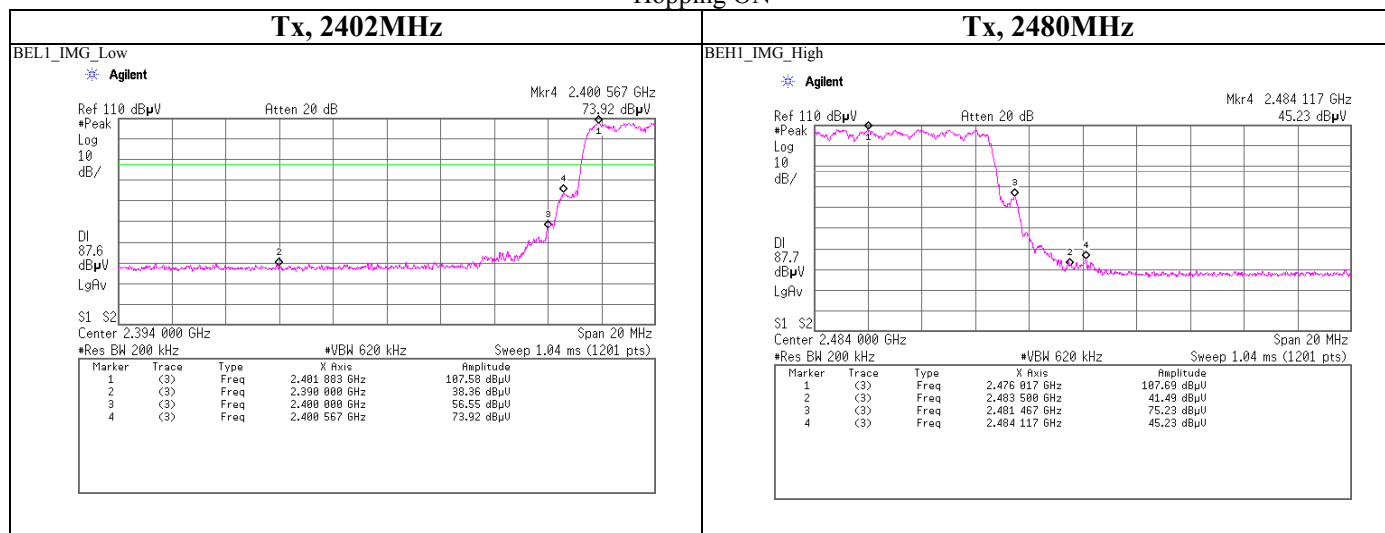


Spurious emission (Conducted)

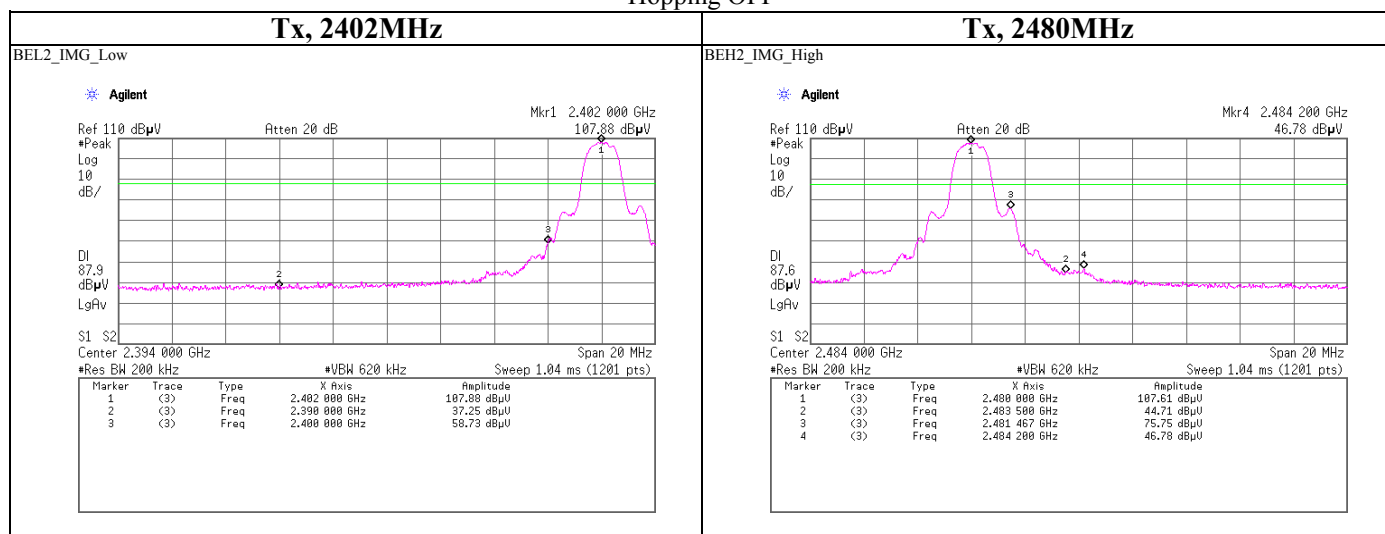
Band Edge compliance

3-DH5,

Hopping ON



Hopping OFF



DATA OF RADIATED EMISSION TEST

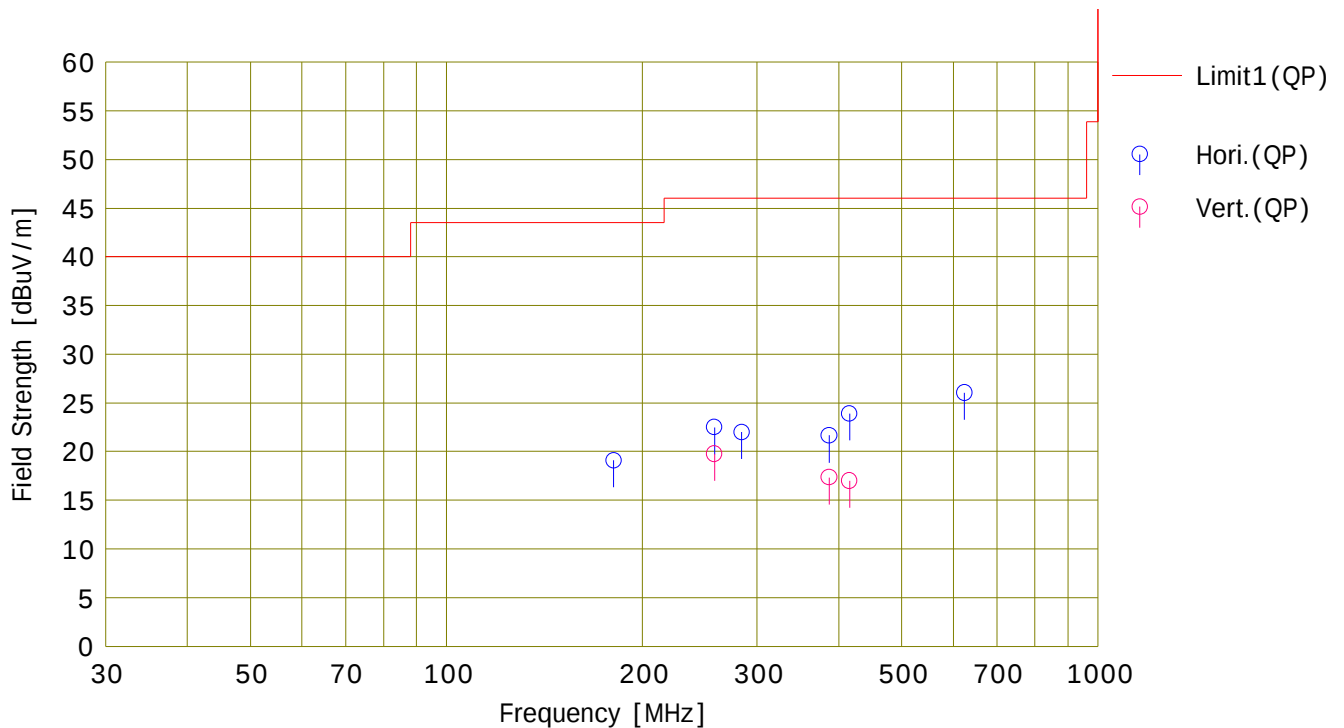
UL Japan, Inc. Shonan EMC Lab. No.3 Semi - Anechoic Chamber
Date : 2009 / 12 / 09

Company : Panasonic Automotive Systems Company
Kind of EUT : Bluetooth Module
Model No. : YEAP01A046
Serial No. : 1S-13
Mode : Transmitting 2402MHz DH5
Report No. : 30EE0036-SH-01-A-R2
Power : DC5V
Temp./Humi. : 22deg.C. / 35%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

Engineer : Makoto Hosaka



No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]				[dBuV/m]	[dBuV/m]	[dB]					
1	180.635	27.4	16.0	7.7	32.0	19.1	43.5	24.4	Hori	172	195	BC	
2	258.042	28.9	17.4	8.1	31.9	22.5	46.0	23.5	Hori	131	20	BC	
3	283.852	27.3	18.4	8.2	31.9	22.0	46.0	24.0	Hori	180	359	BC	
4	387.065	29.2	15.8	8.6	31.9	21.7	46.0	24.4	Hori	100	186	LP	
5	415.989	30.7	16.3	8.8	31.9	23.9	46.0	22.1	Hori	107	0	LP	
6	623.998	29.2	19.3	9.5	31.9	26.1	46.0	20.0	Hori	155	173	LP	
7	258.042	26.2	17.4	8.1	31.9	19.8	46.0	26.2	Vert.	100	319	BC	
8	387.065	24.9	15.8	8.6	31.9	17.4	46.0	28.6	Vert.	315	109	LP	
9	415.989	23.8	16.3	8.8	31.9	17.0	46.0	29.0	Vert.	100	102	LP	

DATA OF RADIATED EMISSION TEST

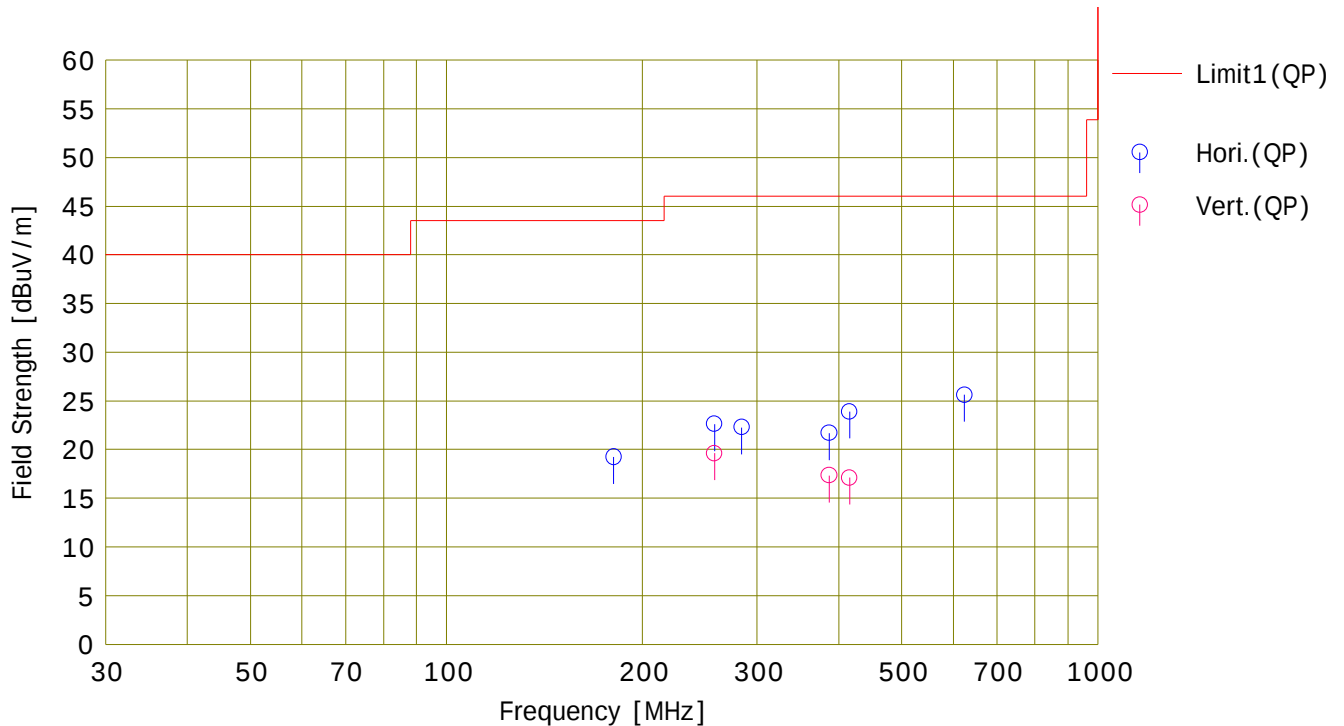
UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2009/12/09

Company : Panasonic Automotive Systems Company Mode : Transmitting 2441MHz DH5
Kind of EUT : Bluetooth Module Report No. : 30EE0036-SH-01-A-R2
Model No. : YEAP01A046 Power : DC5V
Serial No. : 1S-13 Temp./Humi. : 22deg.C / 35%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

Engineer : Makoto Hosaka



No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]				[dBuV/m]	[dBuV/m]	[dB]					
1	180.635	27.5	16.0	7.7	32.0	19.2	43.5	24.3	Hori	172	179	BC	
2	258.042	29.0	17.4	8.1	31.9	22.6	46.0	23.4	Hori	135	25	BC	
3	283.852	27.6	18.4	8.2	31.9	22.3	46.0	23.7	Hori	175	359	BC	
4	387.065	29.2	15.8	8.6	31.9	21.7	46.0	24.3	Hori	100	183	LP	
5	415.989	30.7	16.3	8.8	31.9	23.9	46.0	22.1	Hori	100	0	LP	
6	623.998	28.7	19.3	9.5	31.9	25.6	46.0	20.4	Hori	167	177	LP	
7	258.042	26.0	17.4	8.1	31.9	19.6	46.0	26.4	Vert.	100	317	BC	
8	387.065	24.9	15.8	8.6	31.9	17.4	46.0	28.6	Vert.	315	105	LP	
9	415.989	23.9	16.3	8.8	31.9	17.1	46.0	28.9	Vert.	100	105	LP	

DATA OF RADIATED EMISSION TEST

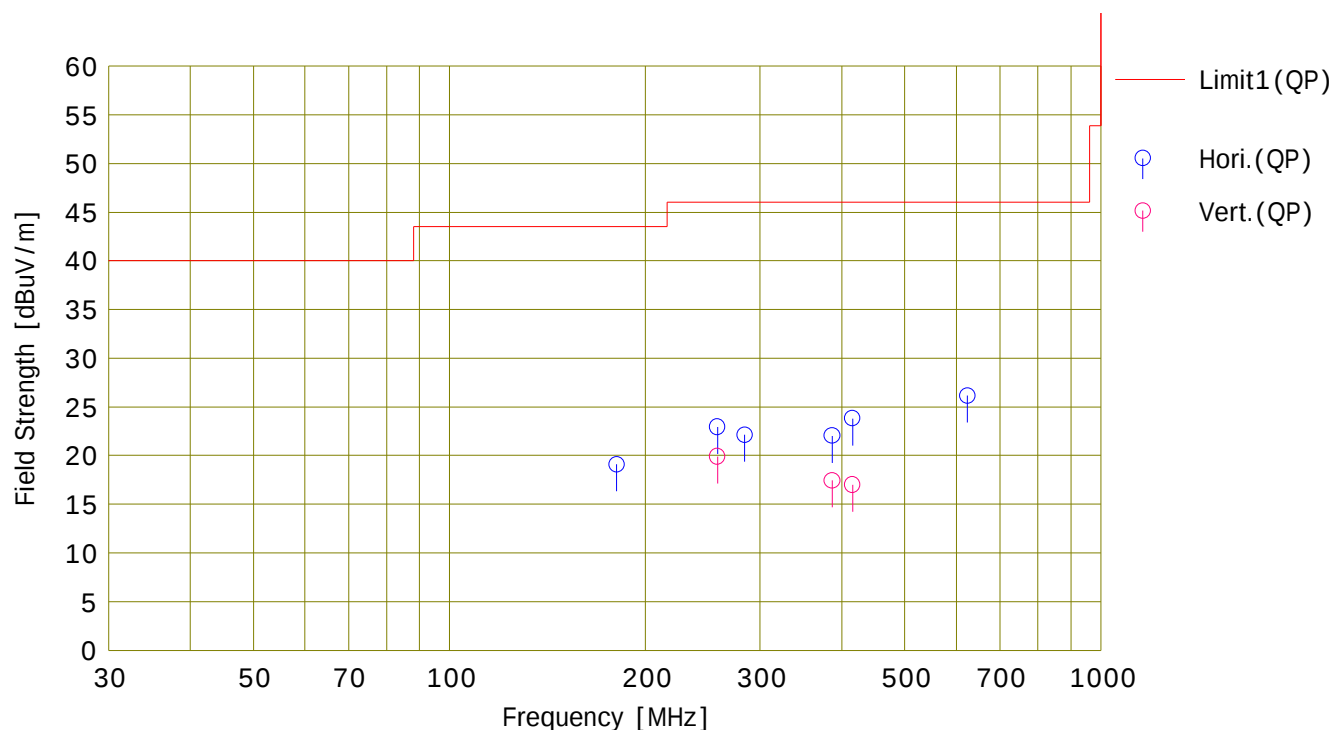
UL Japan, Inc. Shonan EMC Lab. No.3 Semi - Anechoic Chamber
Date : 2009 / 12 / 09

Company : Panasonic Automotive Systems Company Mode : Transmitting 2480MHz DH5
Kind of EUT : Bluetooth Module Report No. : 30EE0036 - SH - 01 - A - R2
Model No. : YEAP01A046 Power : DC5V
Serial No. : 1S - 13 Temp./Humi. : 22deg.C. / 35%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

Engineer : Makoto Hosaka



No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]				[dBuV/m]	[dBuV/m]	[dB]					
1	180.635	27.4	16.0	7.7	32.0	19.1	43.5	24.4	Hori	175	173	BC	
2	258.042	29.3	17.4	8.1	31.9	22.9	46.0	23.1	Hori	140	27	BC	
3	283.852	27.4	18.4	8.2	31.9	22.1	46.0	23.9	Hori	186	7	BC	
4	387.065	29.5	15.8	8.6	31.9	22.0	46.0	24.0	Hori	100	181	LP	
5	415.989	30.6	16.3	8.8	31.9	23.8	46.0	22.2	Hori	120	0	LP	
6	623.998	29.3	19.3	9.5	31.9	26.2	46.0	19.9	Hori	151	179	LP	
7	258.042	26.3	17.4	8.1	31.9	19.9	46.0	26.1	Vert.	100	322	BC	
8	387.065	24.9	15.8	8.6	31.9	17.4	46.0	28.6	Vert.	300	109	LP	
9	415.989	23.8	16.3	8.8	31.9	17.0	46.0	29.0	Vert.	100	121	LP	

Calculation: Result [dBuV/m] = Reading [dBuV] + Ant.Fac [dB/m] + Loss (Cable+ATT) [dB] - Gain (AMP) [dB]
Ant.Type=RA:Rod Antenna BC:Biconical Antenna, LP:Logperiodic Antenna, SHA:Horn Antenna

DATA OF RADIATED EMISSION TEST

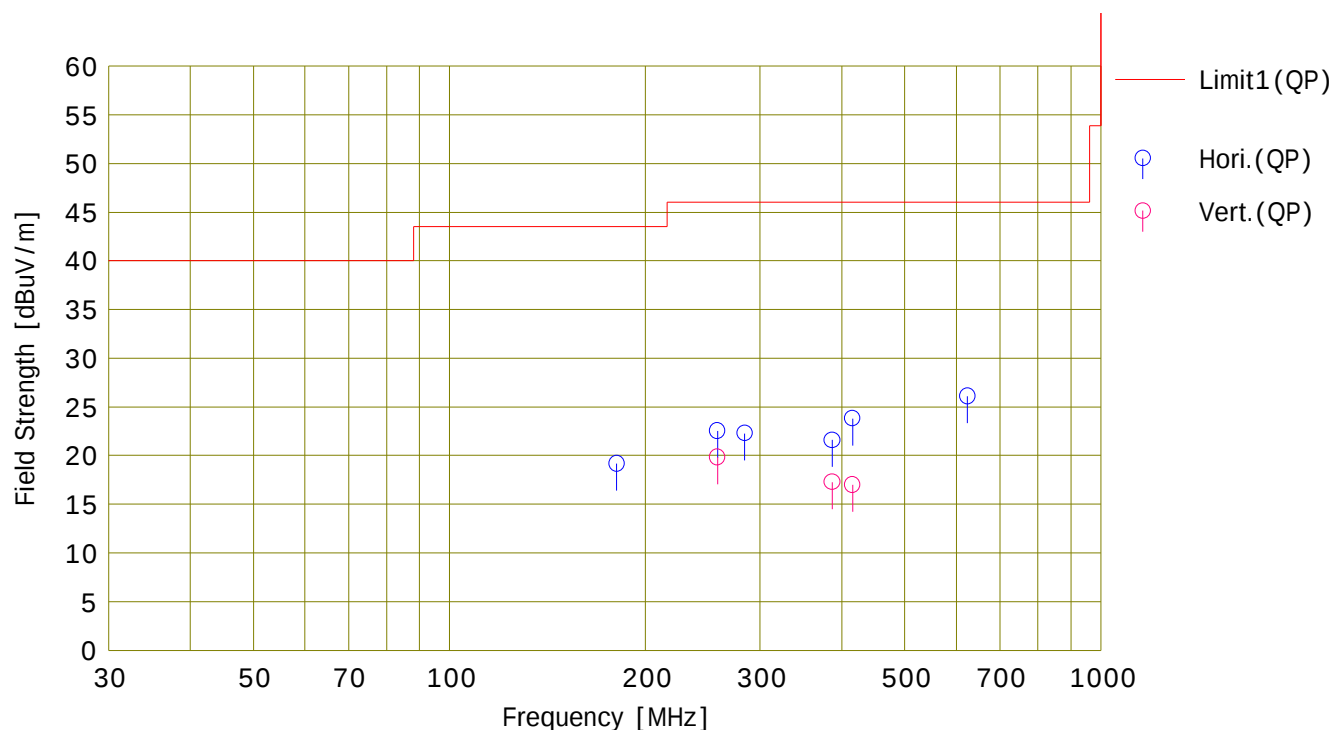
UL Japan, Inc. Shonan EMC Lab. No.3 Semi - Anechoic Chamber
Date : 2009 / 12 / 09

Company : Panasonic Automotive Systems Company Mode : Transmitting 2402MHz 3DH5
Kind of EUT : Bluetooth Module Report No. : 30EE0036 - SH - 01 - A - R2
Model No. : YEAP01A046 Power : DC5V
Serial No. : 1S - 13 Temp./Humi. : 22deg.C. / 35%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

Engineer : Makoto Hosaka



No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]				[dBuV/m]	[dBuV/m]	[dB]					
1	180.635	27.5	16.0	7.7	32.0	19.2	43.5	24.3	Hori	169	184	BC	
2	258.042	28.9	17.4	8.1	31.9	22.5	46.0	23.5	Hori	132	30	BC	
3	283.852	27.6	18.4	8.2	31.9	22.3	46.0	23.7	Hori	185	15	BC	
4	387.065	29.1	15.8	8.6	31.9	21.6	46.0	24.4	Hori	100	170	LP	
5	415.989	30.6	16.3	8.8	31.9	23.8	46.0	22.2	Hori	100	0	LP	
6	623.998	29.2	19.3	9.5	31.9	26.1	46.0	19.9	Hori	146	176	LP	
7	258.042	26.2	17.4	8.1	31.9	19.8	46.0	26.2	Vert.	100	313	BC	
8	387.065	24.8	15.8	8.6	31.9	17.3	46.0	28.7	Vert.	297	103	LP	
9	415.989	23.8	16.3	8.8	31.9	17.0	46.0	29.0	Vert.	100	129	LP	

DATA OF RADIATED EMISSION TEST

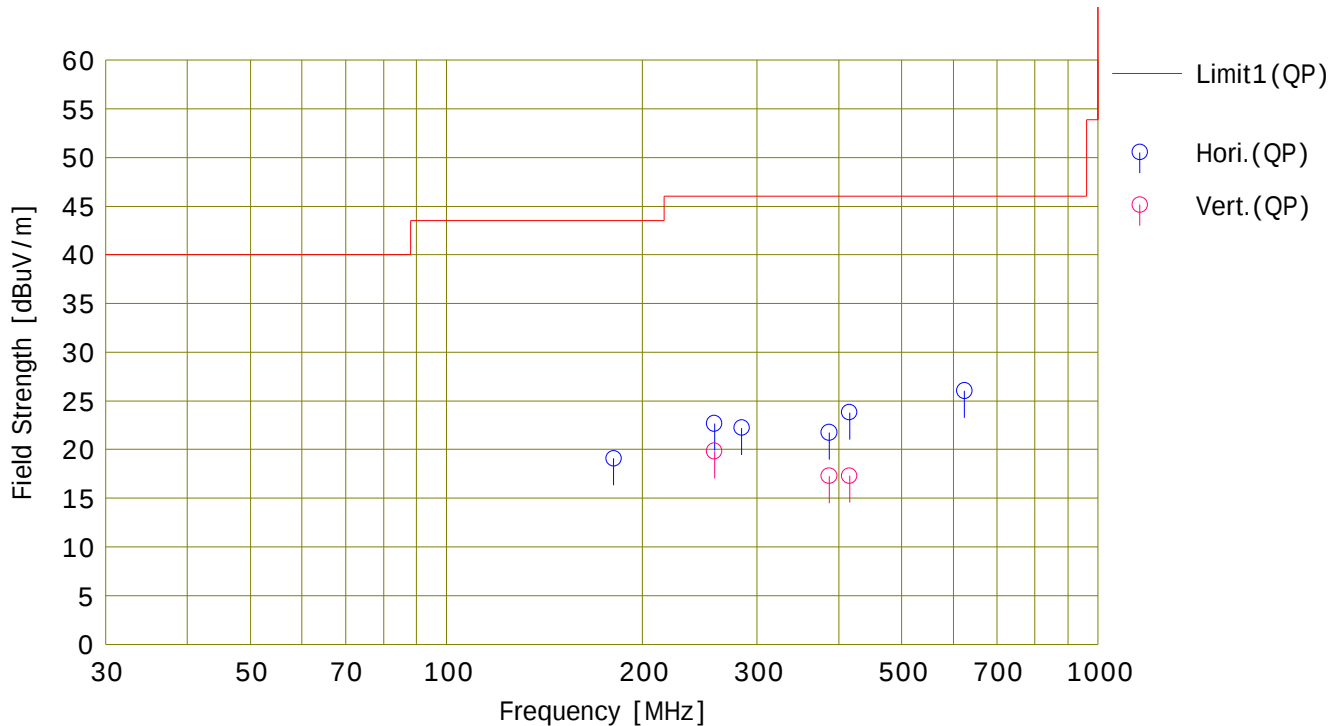
UL Japan, Inc. Shonan EMC Lab. No.3 Semi - Anechoic Chamber
Date : 2009 / 12 / 09

Company : Panasonic Automotive Systems Company Mode : Transmitting 2441MHz 3DH5
Kind of EUT : Bluetooth Module Report No. : 30EE0036 - SH - 01 - A - R2
Model No. : YEAP01A046 Power : DC5V
Serial No. : 1S - 13 Temp./Humi. : 22deg.C. / 35%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

Engineer : Makoto Hosaka



No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]				[dBuV/m]	[dBuV/m]	[dB]					
1	180.635	27.4	16.0	7.7	32.0	19.1	43.5	24.4	Hori	175	174	BC	
2	258.042	29.1	17.4	8.1	31.9	22.7	46.0	23.3	Hori	134	21	BC	
3	283.852	27.5	18.4	8.2	31.9	22.2	46.0	23.8	Hori	171	24	BC	
4	387.065	29.3	15.8	8.6	31.9	21.8	46.0	24.3	Hori	100	179	LP	
5	415.989	30.6	16.3	8.8	31.9	23.8	46.0	22.2	Hori	100	4	LP	
6	623.998	29.2	19.3	9.5	31.9	26.1	46.0	20.0	Hori	155	177	LP	
7	258.042	26.2	17.4	8.1	31.9	19.8	46.0	26.2	Vert.	100	309	BC	
8	387.065	24.8	15.8	8.6	31.9	17.3	46.0	28.7	Vert.	299	96	LP	
9	415.989	24.1	16.3	8.8	31.9	17.3	46.0	28.7	Vert.	100	114	LP	

Calculation: Result [dBuV/m] = Reading [dBuV] + Ant.Fac [dB/m] + Loss (Cable+ATT) [dB] - Gain (AMP) [dB]
Ant.Type=RA:Rod Antenna BC:Biconical Antenna, LP:Logperiodic Antenna, SHA:Horn Antenna

DATA OF RADIATED EMISSION TEST

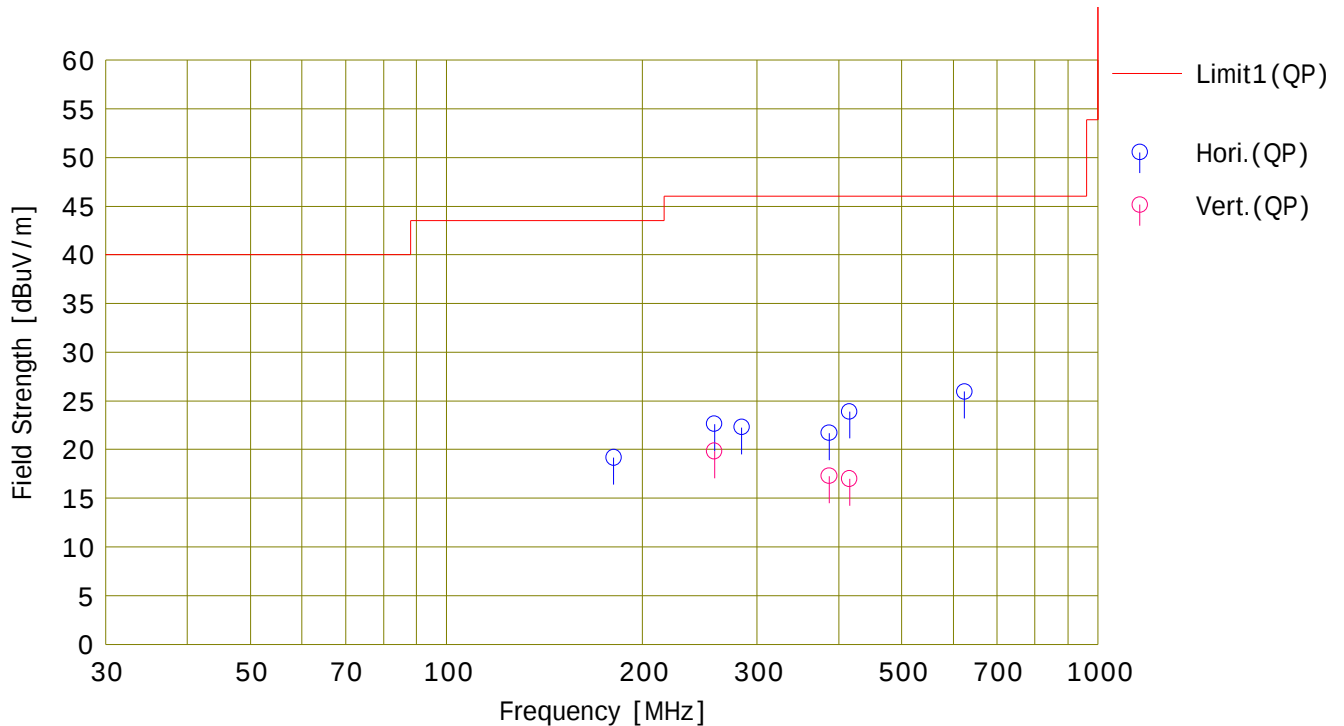
UL Japan, Inc. Shonan EMC Lab. No.3 Semi - Anechoic Chamber
Date : 2009 / 12 / 09

Company : Panasonic Automotive Systems Company Mode : Transmitting 2480MHz 3DH5
Kind of EUT : Bluetooth Module Report No. : 30EE0036 - SH - 01 - A - R2
Model No. : YEAP01A046 Power : DC5V
Serial No. : 1S - 13 Temp./Humi. : 22deg.C. / 35%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

Engineer : Makoto Hosaka



No.	Freq. [MHz]	Reading <QP>	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result <QP>	Limit <QP>	Margin <QP>	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		[dBuV]				[dBuV/m]	[dBuV/m]	[dB]					
1	180.635	27.5	16.0	7.7	32.0	19.2	43.5	24.3	Hori	180	180	BC	
2	258.042	29.0	17.4	8.1	31.9	22.6	46.0	23.4	Hori	133	27	BC	
3	283.852	27.6	18.4	8.2	31.9	22.3	46.0	23.7	Hori	181	20	BC	
4	387.065	29.2	15.8	8.6	31.9	21.7	46.0	24.3	Hori	100	184	LP	
5	415.989	30.7	16.3	8.8	31.9	23.9	46.0	22.1	Hori	100	2	LP	
6	623.998	29.0	19.3	9.5	31.9	25.9	46.0	20.1	Hori	146	179	LP	
7	258.042	26.2	17.4	8.1	31.9	19.8	46.0	26.2	Vert.	100	315	BC	
8	387.065	24.8	15.8	8.6	31.9	17.3	46.0	28.7	Vert.	309	91	LP	
9	415.989	23.8	16.3	8.8	31.9	17.0	46.0	29.0	Vert.	100	121	LP	

Calculation: Result [dBuV/m] = Reading [dBuV] + Ant.Fac [dB/m] + Loss (Cable+ATT) [dB] - Gain (AMP) [dB]
Ant.Type=RA:Rod Antenna BC:Biconical Antenna, LP:Logperiodic Antenna, SHA:Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2009/12/08

Company : Panasonic Automotive Systems Company Mode : Transmitting 2402MHz DH5
Kind of EUT : Bluetooth Module Report No. : 30EE0036-SH-01-A-R2
Model No. : YEAP01A046 Power : DC5V
Serial No. : 1S-13 Temp./Humi. : 20deg.C. / 41%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
Limit2 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

Engineer : Makoto Hosaka

<< AV/PK DATA >>

No.	Freq.	Reading		Ant.Fac	Loss	Gain	Result		Limit		Margin		Pola.	Height	Angle	Ant. Type	Comment
		<AV>	<PK>				<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
	[MHz]	[dBuV]	[dBuV]				[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	2390.000	34.2	46.8	27.6	13.4	39.8	35.4	48.0	53.9	73.9	18.5	25.9	Hori	103	83	SHA03	VBW:300Hz
2	2400.000	40.4	46.6	27.6	13.6	39.8	41.8	48.0	53.9	73.9	12.1	25.9	Hori	103	83	SHA03	VBW:300Hz
3	4804.000	39.0	49.4	30.6	5.6	39.5	35.7	46.1	53.9	73.9	18.3	27.8	Hori	103	296	SHA03	VBW:300Hz
4	7206.000	35.0	47.0	36.0	6.9	38.3	39.6	51.6	53.9	73.9	14.3	22.4	Hori	100	0	SHA03	VBW:300Hz
5	9608.000	33.1	45.1	38.4	7.8	36.9	42.4	54.4	53.9	73.9	11.5	19.5	Hori	100	0	SHA03	VBW:300Hz
6	12010.000	33.9	45.9	39.7	8.8	38.0	44.4	56.4	53.9	73.9	9.5	17.5	Hori	100	0	SHA03	VBW:300Hz
7	2390.000	34.3	46.4	27.6	13.4	39.8	35.5	47.6	53.9	73.9	18.4	26.3	Vert.	107	178	SHA03	VBW:300Hz
8	2400.000	40.5	47.4	27.6	13.6	39.8	41.9	48.8	53.9	73.9	12.0	25.1	Vert.	107	178	SHA03	VBW:300Hz
9	4804.000	46.2	52.3	30.6	5.6	39.5	42.9	49.0	53.9	73.9	11.0	24.9	Vert.	102	245	SHA03	VBW:300Hz
10	7206.000	34.9	47.3	36.0	6.9	38.3	39.5	51.9	53.9	73.9	14.4	22.0	Vert.	100	0	SHA03	VBW:300Hz
11	9608.000	33.0	45.4	38.4	7.8	36.9	42.3	54.7	53.9	73.9	11.6	19.2	Vert.	100	0	SHA03	VBW:300Hz
12	12010.000	33.9	46.1	39.7	8.8	38.0	44.4	56.6	53.9	73.9	9.5	17.4	Vert.	100	0	SHA03	VBW:300Hz

Calculation:Result [dBuV/m]=Reading [dBuV]+Ant.Fac [dB/m]+Loss (Cable+ATT) [dB] - Gain (AMP) [dB]
Ant.Type=RA:Rod Antenna BC:Biconical Antenna, LP:Logperiodic Antenna, SHA:Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2009/12/08

Company : Panasonic Automotive Systems Company Mode : Transmitting 2441MHz DH5
Kind of EUT : Bluetooth Module Report No. : 30EE0036-SH-01-A-R2
Model No. : YEAP01A046 Power : DC5V
Serial No. : 1S-13 Temp./Humi. : 20deg.C. / 41%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
Limit2 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

Engineer : Makoto Hosaka

<< AV/PK DATA >>

No.	Freq.	Reading		Ant.Fac	Loss	Gain	Result		Limit		Margin		Pola.	Height	Angle	Ant. Type	Comment
		<AV>	<PK>				<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
	[MHz]	[dBuV]	[dBuV]				[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]		[H/V]	[cm]	[deg]	
1	4882.000	40.0	49.2	30.9	5.8	39.5	37.2	46.4	53.9	73.9	16.7	27.5	Hori	102	304	SHA03	VBW:300Hz
2	7323.000	34.9	47.6	36.0	7.0	38.4	39.5	52.2	53.9	73.9	14.4	21.7	Hori	100	0	SHA03	VBW:300Hz
3	9764.000	33.4	45.2	38.4	7.9	37.0	42.7	54.5	53.9	73.9	11.2	19.4	Hori	100	0	SHA03	VBW:300Hz
4	12205.000	33.4	45.2	39.7	9.0	37.7	44.4	56.2	53.9	73.9	9.5	17.7	Hori	100	0	SHA03	VBW:300Hz
5	4882.000	46.9	52.7	30.9	5.8	39.5	44.1	49.9	53.9	73.9	9.8	24.0	Vert.	103	252	SHA03	VBW:300Hz
6	7323.000	35.1	47.5	36.0	7.0	38.4	39.7	52.1	53.9	73.9	14.2	21.8	Vert.	100	0	SHA03	VBW:300Hz
7	9764.000	33.0	45.2	38.4	7.9	37.0	42.3	54.5	53.9	73.9	11.6	19.4	Vert.	100	0	SHA03	VBW:300Hz
8	12205.000	33.5	45.8	39.7	9.0	37.7	44.5	56.8	53.9	73.9	9.4	17.2	Vert.	100	0	SHA03	VBW:300Hz

Calculation:Result [dBuV/m]=Reading [dBuV]+Ant.Fac [dB/m]+Loss (Cable+ATT) [dB] - Gain (AMP) [dB]
Ant.Type=RA:Rod Antenna BC:Biconical Antenna, LP:Logperiodic Antenna, SHA:Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2009/12/08

Company : Panasonic Automotive Systems Company Mode : Transmitting 2480MHz DH5
Kind of EUT : Bluetooth Module Report No. : 30EE0036-SH-01-A-R2
Model No. : YEAP01A046 Power : DC5V
Serial No. : 1S-13 Temp./Humi. : 20deg.C / 41%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
Limit2 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

Engineer : Makoto Hosaka

<< AV/PK DATA >>

No.	Freq.	Reading		Ant.Fac	Loss	Gain	Result		Limit		Margin		Pola.	Height	Angle	Ant. Type	Comment
		<AV>	<PK>				<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
	[MHz]	[dBuV]	[dBuV]				[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	2483.500	34.0	46.3	27.9	13.6	39.8	35.7	48.0	53.9	73.9	18.2	25.9	Hori	103	274	SHA03	VBW:300Hz
2	4960.000	41.7	49.8	31.1	5.9	39.4	39.3	47.4	53.9	73.9	14.6	26.6	Hori	105	333	SHA03	VBW:300Hz
3	7440.000	35.4	46.5	35.9	7.2	38.5	40.0	51.1	53.9	73.9	13.9	22.8	Hori	105	330	SHA03	VBW:300Hz
4	9920.000	32.9	44.7	38.3	7.9	37.1	42.0	53.8	53.9	73.9	12.0	20.2	Hori	100	0	SHA03	VBW:300Hz
5	12400.000	33.3	45.0	39.7	9.4	37.4	45.0	56.7	53.9	73.9	8.9	17.2	Hori	100	0	SHA03	VBW:300Hz
6	2483.500	33.9	45.8	27.9	13.6	39.8	35.6	47.5	53.9	73.9	18.3	26.4	Vert.	103	268	SHA03	VBW:300Hz
7	4960.000	48.6	53.6	31.1	5.9	39.4	46.2	51.2	53.9	73.9	7.7	22.7	Vert.	102	259	SHA03	VBW:300Hz
8	7440.000	37.5	49.2	35.9	7.2	38.5	42.1	53.8	53.9	73.9	11.8	20.1	Vert.	104	202	SHA03	VBW:300Hz
9	9920.000	32.8	44.8	38.3	7.9	37.1	41.9	53.9	53.9	73.9	12.0	20.0	Vert.	100	0	SHA03	VBW:300Hz
10	12400.000	33.3	45.4	39.7	9.4	37.4	45.0	57.1	53.9	73.9	8.9	16.8	Vert.	100	0	SHA03	VBW:300Hz

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2009/12/08

Company : Panasonic Automotive Systems Company Mode : Transmitting 2402MHz 3DH5
Kind of EUT : Bluetooth Module Report No. : 30EE0036-SH-01-A-R2
Model No. : YEAP01A046 Power : DC5V
Serial No. : 1S-13 Temp./Humi. : 20deg.C / 41%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
Limit2 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

Engineer : Makoto Hosaka

<< AV/PK DATA >>

No.	Freq.	Reading		Ant.Fac	Loss	Gain	Result		Limit		Margin		Pola.	Height	Angle	Ant. Type	Comment
		<AV>	<PK>				<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
	[MHz]	[dBuV]	[dBuV]				[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	2390.000	34.2	45.1	27.6	13.4	39.8	35.4	46.3	53.9	73.9	18.6	27.6	Hori	108	272	SHA03	VBW:300Hz
2	2400.000	46.2	66.4	27.6	13.6	39.8	47.6	67.8	53.9	73.9	6.3	6.1	Hori	108	272	SHA03	VBW:300Hz
3	4804.000	40.8	48.4	30.6	5.6	39.5	37.5	45.1	53.9	73.9	16.5	28.8	Hori	108	337	SHA03	VBW:300Hz
4	7206.000	35.0	42.5	36.0	6.9	38.3	39.6	47.1	53.9	73.9	14.3	26.8	Hori	100	0	SHA03	VBW:300Hz
5	9608.000	33.0	44.0	38.4	7.8	36.9	42.3	53.3	53.9	73.9	11.6	20.6	Hori	100	0	SHA03	VBW:300Hz
6	12010.000	33.9	45.2	39.7	8.8	38.0	44.4	55.7	53.9	73.9	9.5	18.2	Hori	100	0	SHA03	VBW:300Hz
7	2390.000	34.1	45.8	27.6	13.4	39.8	35.3	47.0	53.9	73.9	18.6	26.9	Vert.	104	177	SHA03	VBW:300Hz
8	2400.000	46.3	66.4	27.6	13.6	39.8	47.7	67.8	53.9	73.9	6.2	6.1	Vert.	104	177	SHA03	VBW:300Hz
9	4804.000	47.7	52.2	30.6	5.6	39.5	44.4	48.9	53.9	73.9	9.5	25.0	Vert.	106	258	SHA03	VBW:300Hz
10	7206.000	34.8	45.8	36.0	6.9	38.3	39.4	50.4	53.9	73.9	14.5	23.5	Vert.	100	0	SHA03	VBW:300Hz
11	9608.000	32.9	44.1	38.4	7.8	36.9	42.2	53.4	53.9	73.9	11.7	20.5	Vert.	100	0	SHA03	VBW:300Hz
12	12010.000	33.7	45.4	39.7	8.8	38.0	44.2	55.9	53.9	73.9	9.7	18.1	Vert.	100	0	SHA03	VBW:300Hz

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2009/12/08

Company : Panasonic Automotive Systems Company Mode : Transmitting 2441MHz 3DH5
Kind of EUT : Bluetooth Module Report No. : 30EE0036-SH-01-A-R2
Model No. : YEAP01A046 Power : DC5V
Serial No. : 1S-13 Temp./Humi. : 20deg.C. / 41%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
Limit2 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

Engineer : Makoto Hosaka

<< AV/PK DATA >>

No.	Freq.	Reading		Ant.Fac	Loss	Gain	Result		Limit		Margin		Pola.	Height	Angle	Ant. Type	Comment
		<AV>	<PK>				<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
	[MHz]	[dBuV]	[dBuV]				[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	4882.000	40.5	48.7	30.9	5.8	39.5	37.7	45.9	53.9	73.9	16.2	28.0	Hori	104	335	SHA03	VBW:300Hz
2	7323.000	34.9	46.5	36.0	7.0	38.4	39.5	51.1	53.9	73.9	14.4	22.8	Hori	100	0	SHA03	VBW:300Hz
3	9764.000	32.8	43.7	38.4	7.9	37.0	42.1	53.0	53.9	73.9	11.8	20.9	Hori	100	0	SHA03	VBW:300Hz
4	12205.000	33.5	44.9	39.7	9.0	37.7	44.5	55.9	53.9	73.9	9.4	18.1	Hori	100	0	SHA03	VBW:300Hz
5	4882.000	47.2	52.4	30.9	5.8	39.5	44.4	49.6	53.9	73.9	9.5	24.3	Vert.	105	259	SHA03	VBW:300Hz
6	7323.000	35.0	45.1	36.0	7.0	38.4	39.6	49.7	53.9	73.9	14.3	24.2	Vert.	100	0	SHA03	VBW:300Hz
7	9764.000	32.8	43.8	38.4	7.9	37.0	42.1	53.1	53.9	73.9	11.8	20.8	Vert.	100	0	SHA03	VBW:300Hz
8	12205.000	33.5	44.7	39.7	9.0	37.7	44.5	55.7	53.9	73.9	9.4	18.2	Vert.	100	0	SHA03	VBW:300Hz

Calculation:Result [dBuV/m]=Reading [dBuV]+Ant.Fac [dB/m]+Loss (Cable+ATT) [dB] - Gain (AMP) [dB]
Ant.Type=RA:Rod Antenna BC:Biconical Antenna, LP:Logperiodic Antenna, SHA:Horn Antenna

DATA OF RADIATED EMISSION TEST

UL Japan, Inc. Shonan EMC Lab. No.3 Semi-Anechoic Chamber
Date : 2009/12/08

Company : Panasonic Automotive Systems Company Mode : Transmitting 2480MHz 3DH5
Kind of EUT : Bluetooth Module Report No. : 30EE0036-SH-01-A-R2
Model No. : YEAP01A046 Power : DC5V
Serial No. : 1S-13 Temp./Humi. : 20deg.C. / 41%

Remarks : ANT: N1KYYYY00001

Limit1 : FCC15.209 3m, below 1GHz:QP, above 1GHz:AV
Limit2 : FCC15.209 3m, below 1GHz:QP, above 1GHz:PK

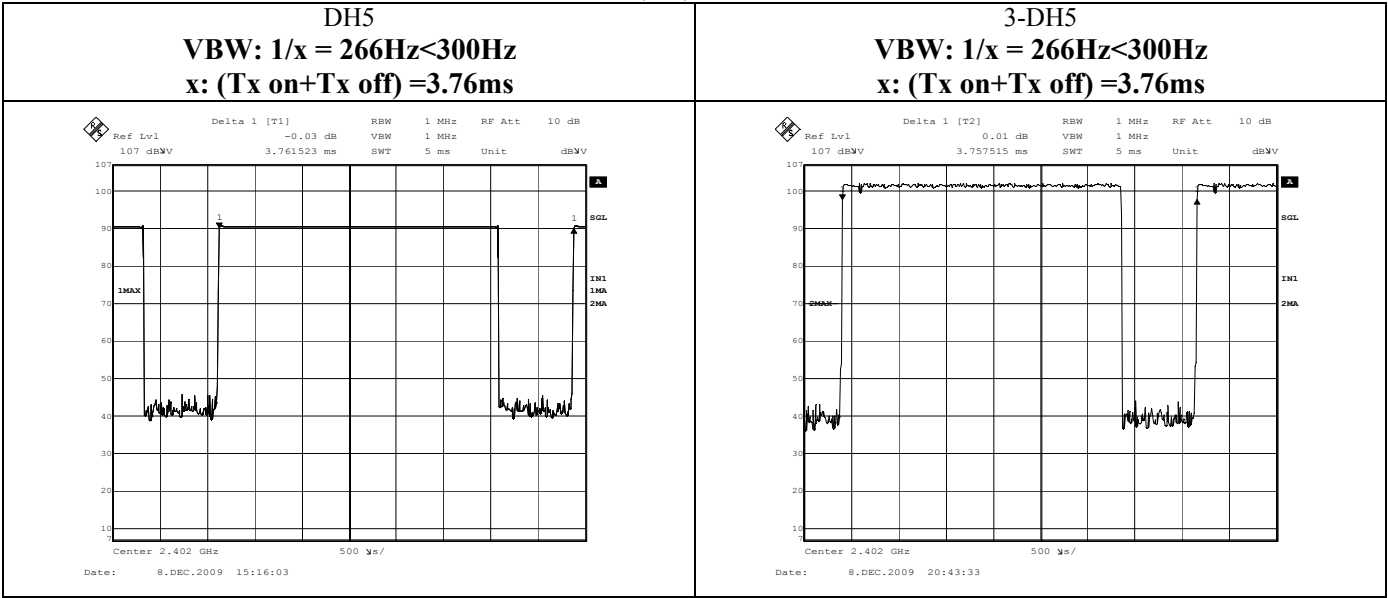
Engineer : Makoto Hosaka

<< AV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type	Comment
		<AV>	<PK>				<AV>	<PK>	<AV>	<PK>	<AV>	<PK>					
		[dBuV]	[dBuV]				[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]					
1	2483.500	34.6	46.5	27.9	13.6	39.8	36.3	48.2	53.9	73.9	17.6	25.7	Hori	100	74	SHA03	VBW:300Hz
2	4960.000	40.9	49.2	31.1	5.9	39.4	38.5	46.8	53.9	73.9	15.4	27.2	Hori	105	338	SHA03	VBW:300Hz
3	7440.000	35.4	46.5	35.9	7.2	38.5	40.0	51.1	53.9	73.9	13.9	22.9	Hori	105	339	SHA03	VBW:300Hz
4	9920.000	32.7	44.1	38.3	7.9	37.1	41.8	53.2	53.9	73.9	12.1	20.7	Hori	100	0	SHA03	VBW:300Hz
5	12400.000	33.4	44.0	39.7	9.4	37.4	45.1	55.7	53.9	73.9	8.8	18.2	Hori	100	0	SHA03	VBW:300Hz
6	2483.500	34.5	47.0	27.9	13.6	39.8	36.2	48.7	53.9	73.9	17.7	25.2	Vert.	103	171	SHA03	VBW:300Hz
7	4960.000	48.7	53.4	31.1	5.9	39.4	46.3	51.0	53.9	73.9	7.6	22.9	Vert.	102	257	SHA03	VBW:300Hz
8	7440.000	37.7	49.3	35.9	7.2	38.5	42.3	53.9	53.9	73.9	11.7	20.0	Vert.	104	212	SHA03	VBW:300Hz
9	9920.000	32.5	42.9	38.3	7.9	37.1	41.6	52.0	53.9	73.9	12.3	22.0	Vert.	100	0	SHA03	VBW:300Hz
10	12400.000	33.3	44.2	39.7	9.4	37.4	45.0	55.9	53.9	73.9	8.9	18.0	Vert.	100	0	SHA03	VBW:300Hz

Spurious emission (Radiated)

VBW (AV) Calculation



3-DH5

VBW: 1/x = 266Hz<300Hz

x: (Tx on+Tx off) =3.76ms

Ref Lvl

Delta 1 [T2]

RBW

1 MHz

RF Att

10 dB

107 dBV

3.757515 ms

SWT

5 ms

Unit

dBV

Center 2.402 GHz

500 us/

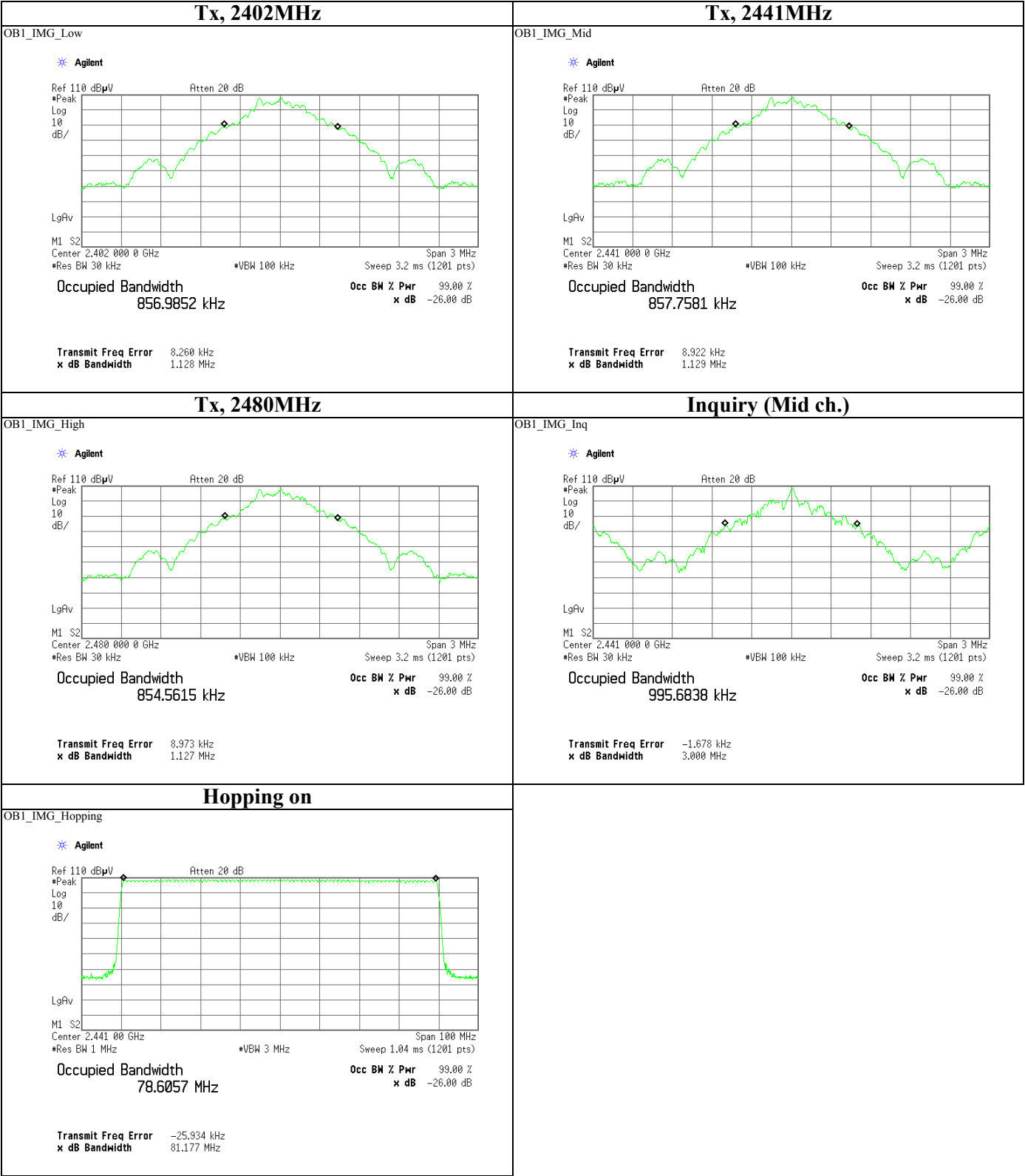
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UL Japan, Inc.
Shonan EMC Lab.

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

99% Occupied Bandwidth

DH5,

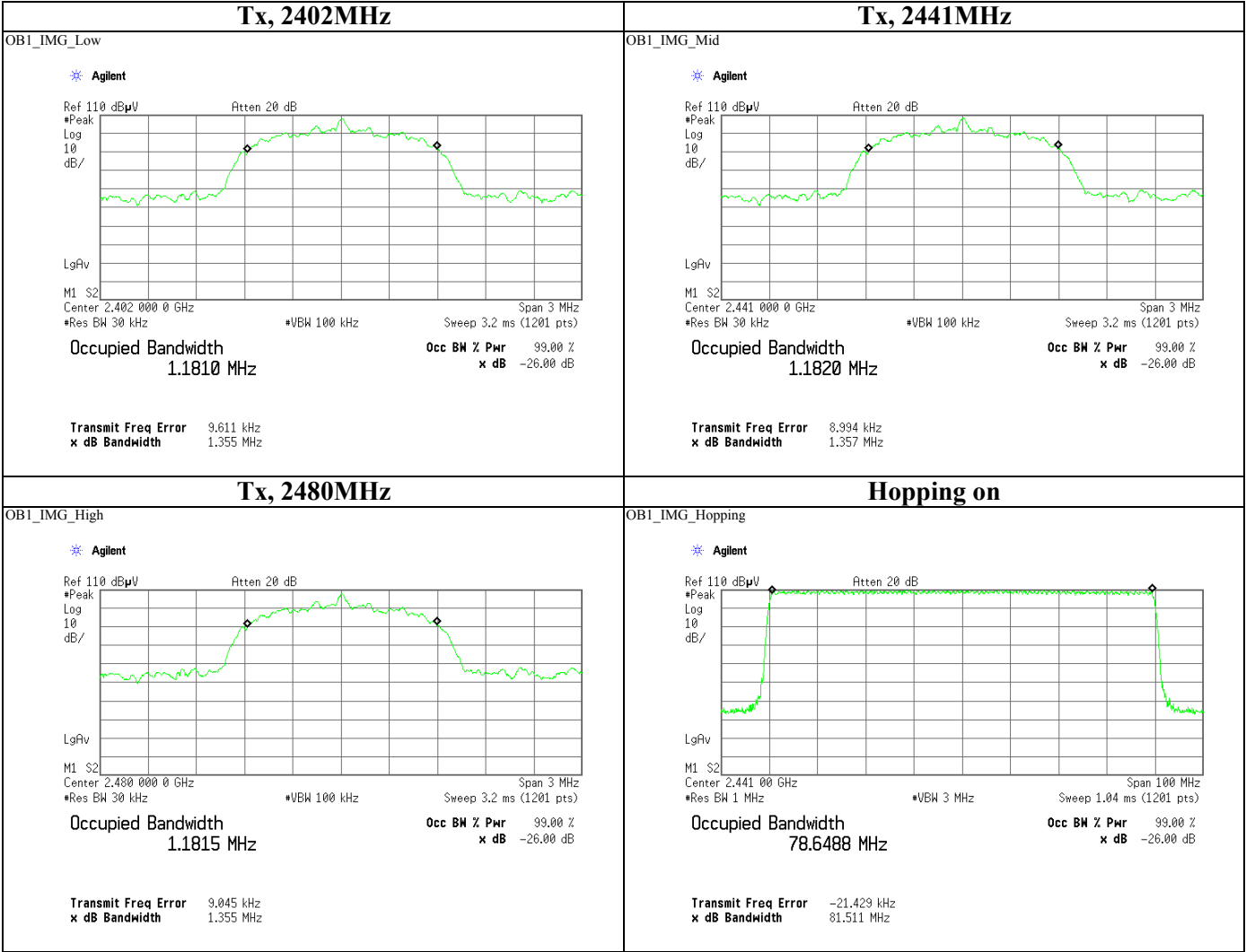


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Shonan EMC Lab.

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

99% Occupied Bandwidth

3-DH5,



EMI test equipment

RE: Out of Band Emission (Radiated)
AT: Antenna terminal conducted test

- 1: Carrier Frequency Separation
- 2: 20dB Bandwidth
- 3: Number of Hopping Frequency
- 4: Dwell time
- 5: Maximum Peak Output Power
- 6: Out of Band Emission (Conducted)