

APPENDIX 2: Data of EMI test

Conducted Emission

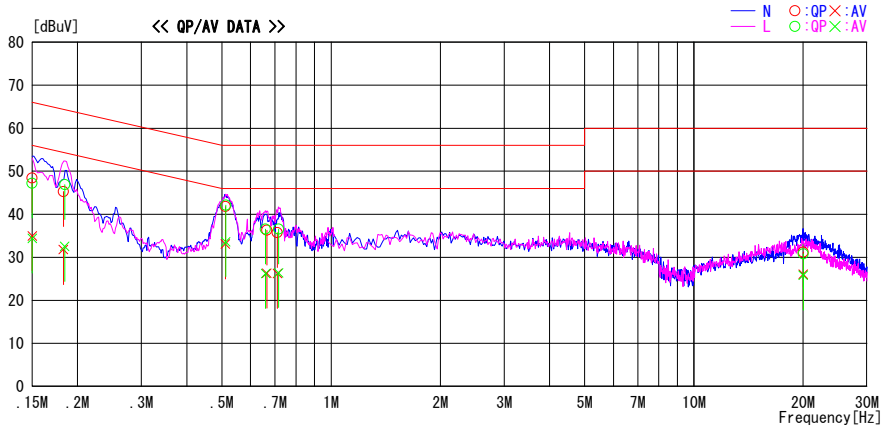
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2011/04/12

Report No. : 31IE0013-HO-01
 Temp./Humi. : 21deg. C / 35%RH
 Engineer : Satofumi Matsuyama

Mode / Remarks : BT Tx 2402MHz DH5

LIMIT : FCC15.207 QP
 FCC15.207 AV

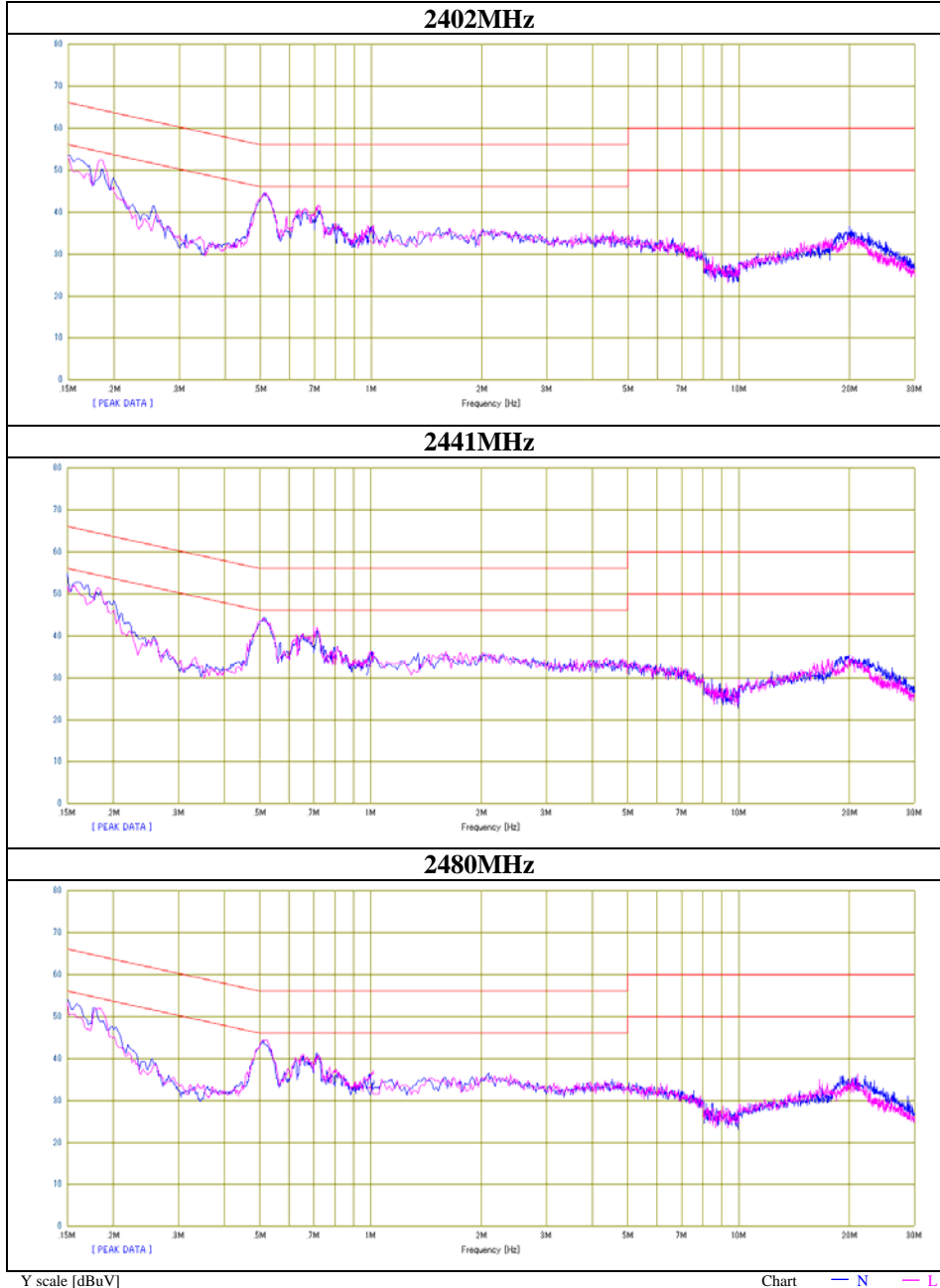


Frequency [MHz]	Reading Level		Corr. Factor	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15000	35.3	21.9	13.1	48.4	35.0	66.0	56.0	17.6	21.0	N	
0.18271	32.2	18.7	13.1	45.3	31.8	64.4	54.4	19.1	22.6	N	
0.51091	28.7	20.0	13.1	41.8	33.1	56.0	46.0	14.2	12.9	N	
0.66463	23.1	13.1	13.2	36.3	26.3	56.0	46.0	19.7	19.7	N	
0.71122	22.5	13.0	13.2	35.7	26.2	56.0	46.0	20.3	19.8	N	
20.01830	17.0	11.9	14.2	31.2	26.1	60.0	50.0	28.8	23.9	N	
0.15000	34.1	21.3	13.1	47.2	34.4	66.0	56.0	18.8	21.6	L	
0.18436	33.8	19.4	13.1	46.9	32.5	64.3	54.3	17.4	21.8	L	
0.51231	29.0	20.5	13.1	42.1	33.6	56.0	46.0	13.9	12.4	L	
0.65937	23.3	13.0	13.2	36.5	26.2	56.0	46.0	19.5	19.8	L	
0.71624	23.3	13.2	13.2	36.5	26.4	56.0	46.0	19.5	19.6	L	
20.01154	16.6	11.6	14.2	30.8	25.8	60.0	50.0	29.2	24.2	L	

CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT=READING+C. F (LISN LOSS+CABLE LOSS+ATTEN. LOSS)
 Except for the above table : adequate margin data below the limits.

Conducted Emission

Test place	Head Office EMC Lab. No.2 Semi Anechoic Chamber
Report No.	31IE0013-HO-01
Date	04/12/2011
Temperature/ Humidity	21 deg.C/ 35% RH
Engineer	Satofumi Matsuyama
Mode	Tx DH5



Conducted Emission

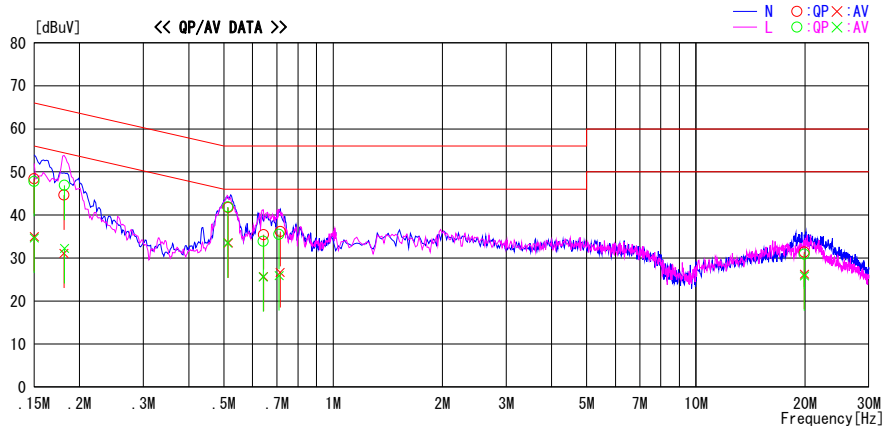
DATA OF CONDUCTED EMISSION TEST

UL Japan, Inc. Head Office EMC Lab. No.2 Semi Anechoic Chamber
Date : 2011/04/12

Report No. : 311E0013-HO-01
 Temp./Humi. : 21deg. C / 35%RH
 Engineer : Satofumi Matsuyama

Mode / Remarks : BT Tx 2402MHz 3DH5

LIMIT : FCC15.207 QP
 FCC15.207 AV

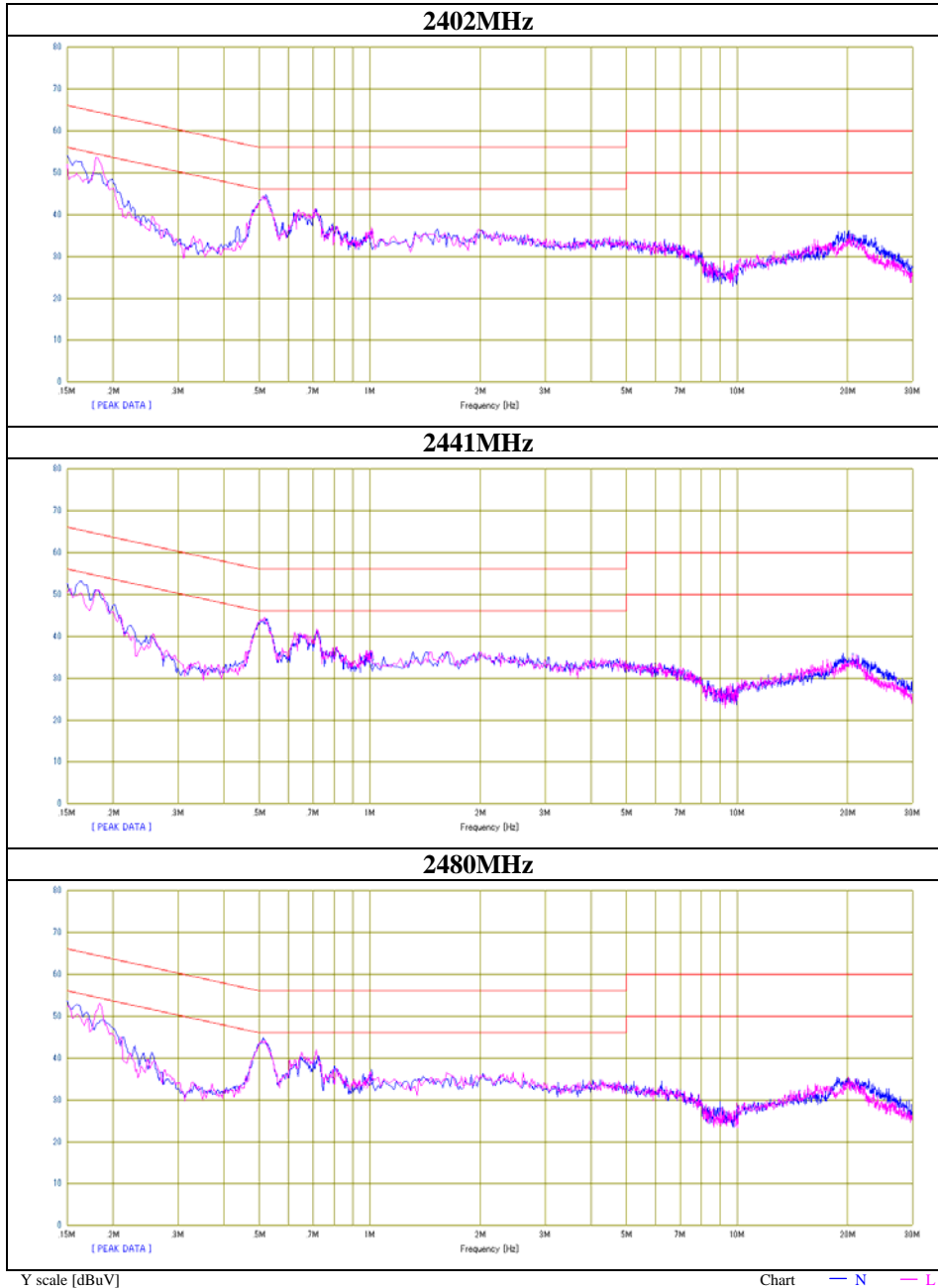


Frequency [MHz]	Reading Level		Corr. Factor [dB]	Results		Limit		Margin		Phase	Comment
	QP [dBuV]	AV [dBuV]		QP [dBuV]	AV [dBuV]	QP [dBuV]	AV [dBuV]	QP [dB]	AV [dB]		
0.15000	35.3	21.9	13.1	48.4	35.0	66.0	56.0	17.6	21.0	N	
0.18129	31.5	18.0	13.1	44.6	31.1	64.4	54.4	19.8	23.3	N	
0.51388	28.6	20.4	13.1	41.7	33.5	56.0	46.0	14.3	12.5	N	
0.64308	22.2	12.5	13.2	35.4	25.7	56.0	46.0	20.6	20.3	N	
0.71498	22.9	13.4	13.2	36.1	26.6	56.0	46.0	19.9	19.4	N	
19.91125	17.2	12.0	14.2	31.4	26.2	60.0	50.0	28.6	23.8	N	
0.15000	34.7	21.5	13.1	47.8	34.6	66.0	56.0	18.2	21.4	L	
0.18188	33.8	19.1	13.1	46.9	32.2	64.4	54.4	17.5	22.2	L	
0.51257	28.8	20.4	13.1	41.9	33.5	56.0	46.0	14.1	12.5	L	
0.64144	20.7	12.4	13.2	33.9	25.6	56.0	46.0	22.1	20.4	L	
0.70979	22.3	12.7	13.2	35.5	25.9	56.0	46.0	20.5	20.1	L	
19.91424	16.7	11.6	14.2	30.9	25.8	60.0	50.0	29.1	24.2	L	

CHART: WITH FACTOR, Peak hold data. CALCULATION: RESULT=READING+C.F (LISN LOSS+CABLE LOSS+ATTEN. LOSS)
 Except for the above table : adequate margin data below the limits.

Conducted Emission

Test place	Head Office EMC Lab. No.2 Semi Anechoic Chamber
Report No.	31IE0013-HO-01
Date	04/12/2011
Temperature/ Humidity	21 deg.C/ 35% RH
Engineer	Satofumi Matsuyama
Mode	Tx 3DH5

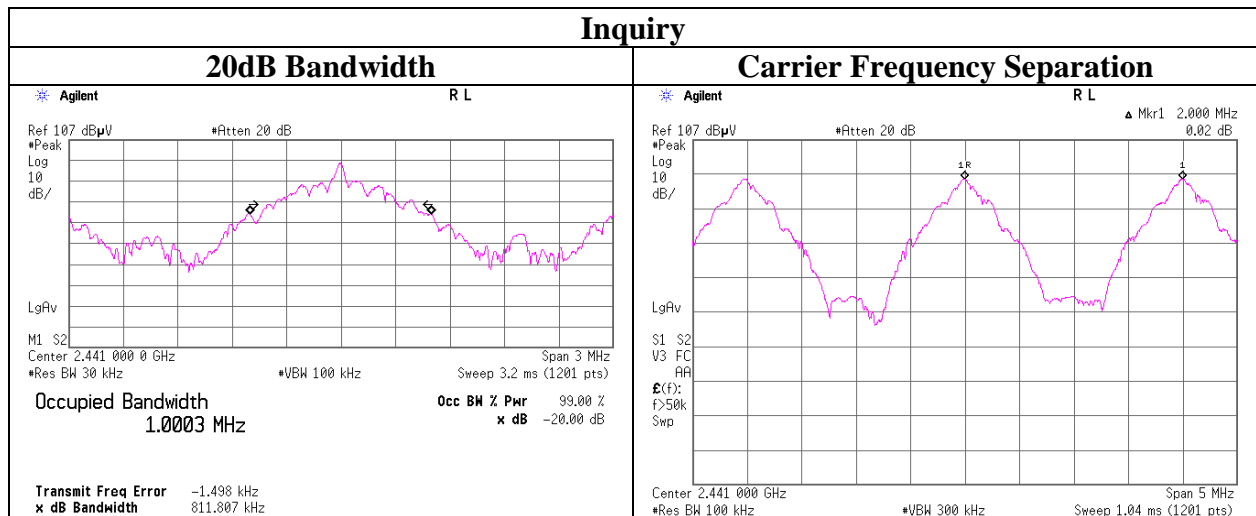


20dB Bandwidth and Carrier Frequency Separation

Test place	Head Office EMC Lab. No.4 and 6 Shielded Room	
Report No.	31IE0013-HO-01	
Date	04/11/2011	04/14/2011
Temperature/ Humidity	20 deg.C / 47% RH	25 deg.C / 27% RH
Engineer	Takumi Shimada	Takeshi Choda
Mode	Tx (Hopping on) DH5/3DH5/Inquiry	

Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency separation [MHz]
DH5	2402.0	0.936	1.000	>= 0.624
DH5	2441.0	0.935	1.000	>= 0.623
DH5	2480.0	1.032	1.000	>= 0.688
3DH5	2402.0	1.263	1.000	>= 0.842
3DH5	2441.0	1.263	1.000	>= 0.842
3DH5	2480.0	1.268	1.000	>= 0.845
Inquiry	2441.0	0.812	2.000	>= 0.541

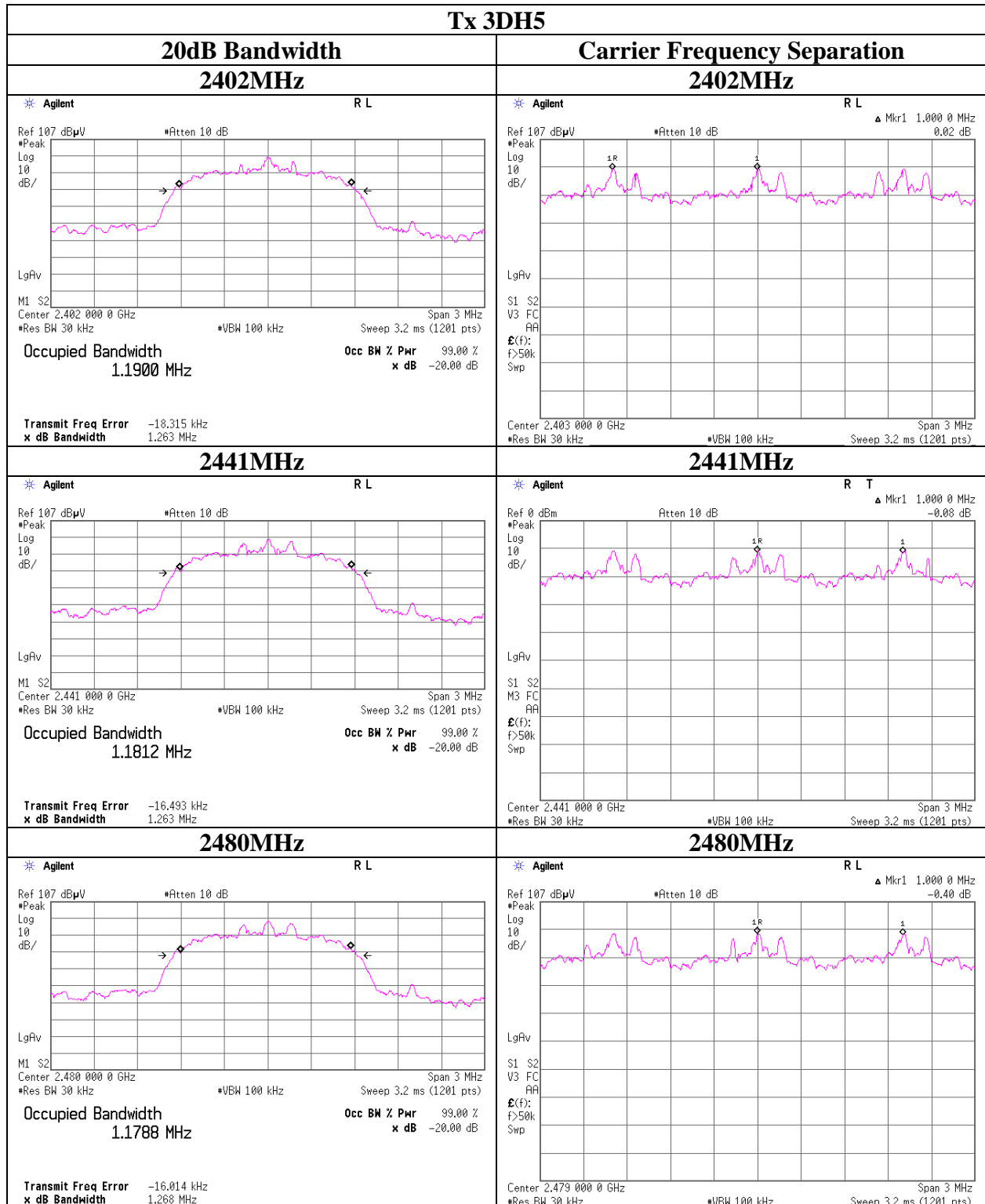
Limit: Two-thirds of 20dB Bandwidth or 25kHz (whichever is greater).
 No limit applies to 20dB Bandwidth.



20dB Bandwidth and Carrier Frequency Separation

Tx DH5	
20dB Bandwidth	Carrier Frequency Separation
2402MHz	2402MHz
<p>Agilent R L</p> <p> Ref 107 dBμV #Peak Log 10 dB/ </p> <p> #Atten 20 dB </p> <p> LgAv </p> <p> M1 S2 Center 2.402 000 0 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms (1201 pts) Span 3 MHz </p> <p> Occupied Bandwidth 885.2040 kHz </p> <p> Occ BW % Pwr 99.00 % x dB -20.00 dB </p> <p> Transmit Freq Error -3.522 kHz x dB Bandwidth 936.037 kHz </p>	<p>Agilent R L</p> <p> Ref 107 dBμV #Peak Log 10 dB/ </p> <p> #Atten 20 dB </p> <p> LgAv </p> <p> S1 S2 V3 FC #Mkr1 1.000 0 MHz 0.46 dB </p> <p> Center 2.403 000 0 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms (1201 pts) Span 3 MHz </p> <p> £(f): f>50k Swp </p>
2441MHz	2441MHz
<p>Agilent R L</p> <p> Ref 107 dBμV #Peak Log 10 dB/ </p> <p> #Atten 20 dB </p> <p> LgAv </p> <p> M1 S2 Center 2.441 000 0 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms (1201 pts) Span 3 MHz </p> <p> Occupied Bandwidth 879.7511 kHz </p> <p> Occ BW % Pwr 99.00 % x dB -20.00 dB </p> <p> Transmit Freq Error -3.571 kHz x dB Bandwidth 934.636 kHz </p>	<p>Agilent R L</p> <p> Ref 107 dBμV #Peak Log 10 dB/ </p> <p> #Atten 20 dB </p> <p> LgAv </p> <p> S1 S2 M3 FC #Mkr1 -1.000 0 MHz -1.37 dB </p> <p> Center 2.441 000 0 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms (1201 pts) Span 3 MHz </p> <p> £(f): f>50k Swp </p>
2480MHz	2480MHz
<p>Agilent R L</p> <p> Ref 107 dBμV #Peak Log 10 dB/ </p> <p> #Atten 20 dB </p> <p> LgAv </p> <p> M1 S2 Center 2.480 000 0 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms (1201 pts) Span 3 MHz </p> <p> Occupied Bandwidth 896.2977 kHz </p> <p> Occ BW % Pwr 99.00 % x dB -20.00 dB </p> <p> Transmit Freq Error -2.860 kHz x dB Bandwidth 1.032 MHz </p>	<p>Agilent R L</p> <p> Ref 107 dBμV #Peak Log 10 dB/ </p> <p> #Atten 20 dB </p> <p> LgAv </p> <p> S1 S2 V3 FC #Mkr1 1.000 0 MHz -0.04 dB </p> <p> Center 2.479 000 0 GHz #Res BW 30 kHz #VBW 100 kHz Sweep 3.2 ms (1201 pts) Span 3 MHz </p> <p> £(f): f>50k Swp </p>

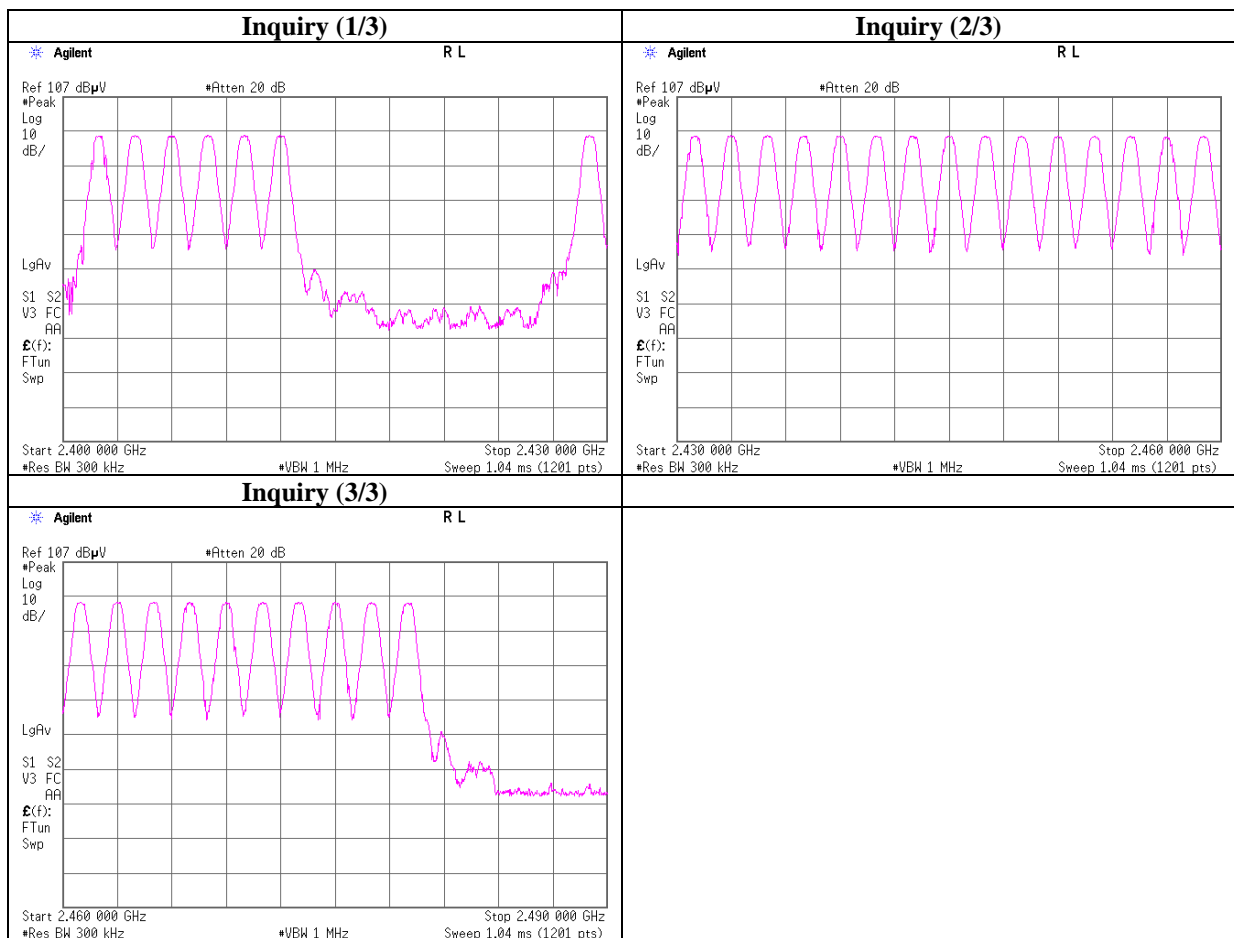
20dB Bandwidth and Carrier Frequency Separation



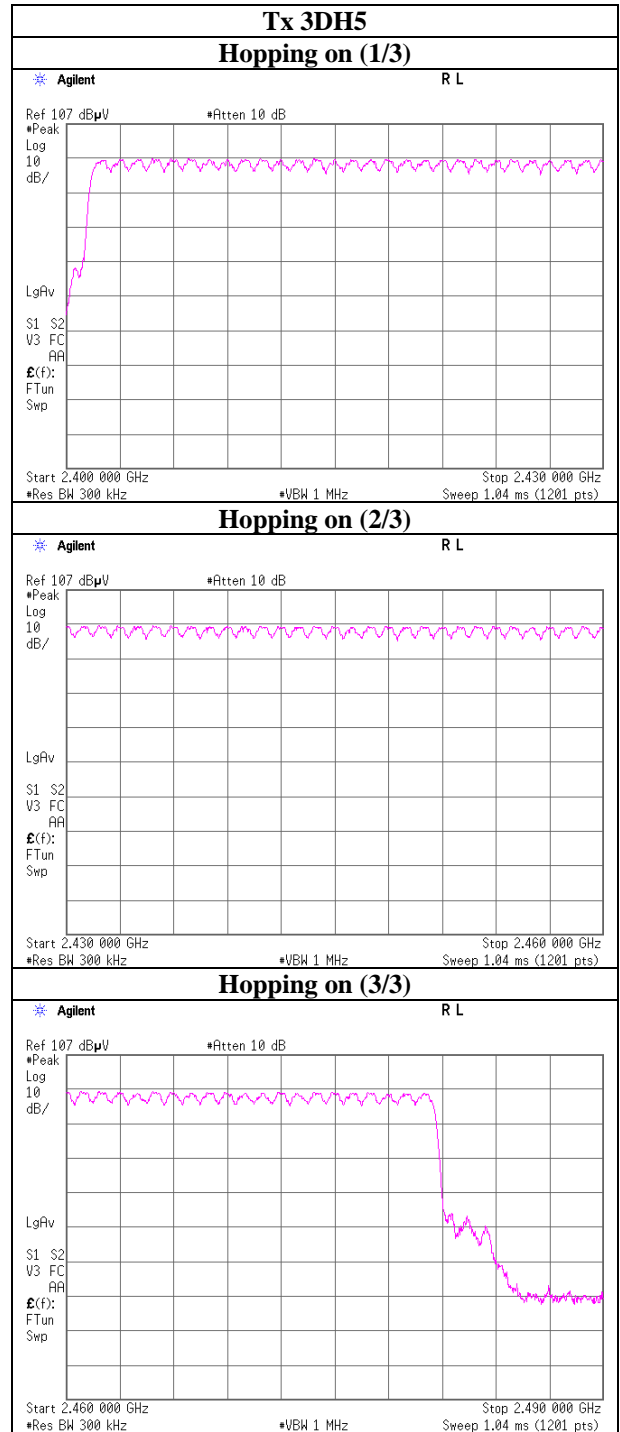
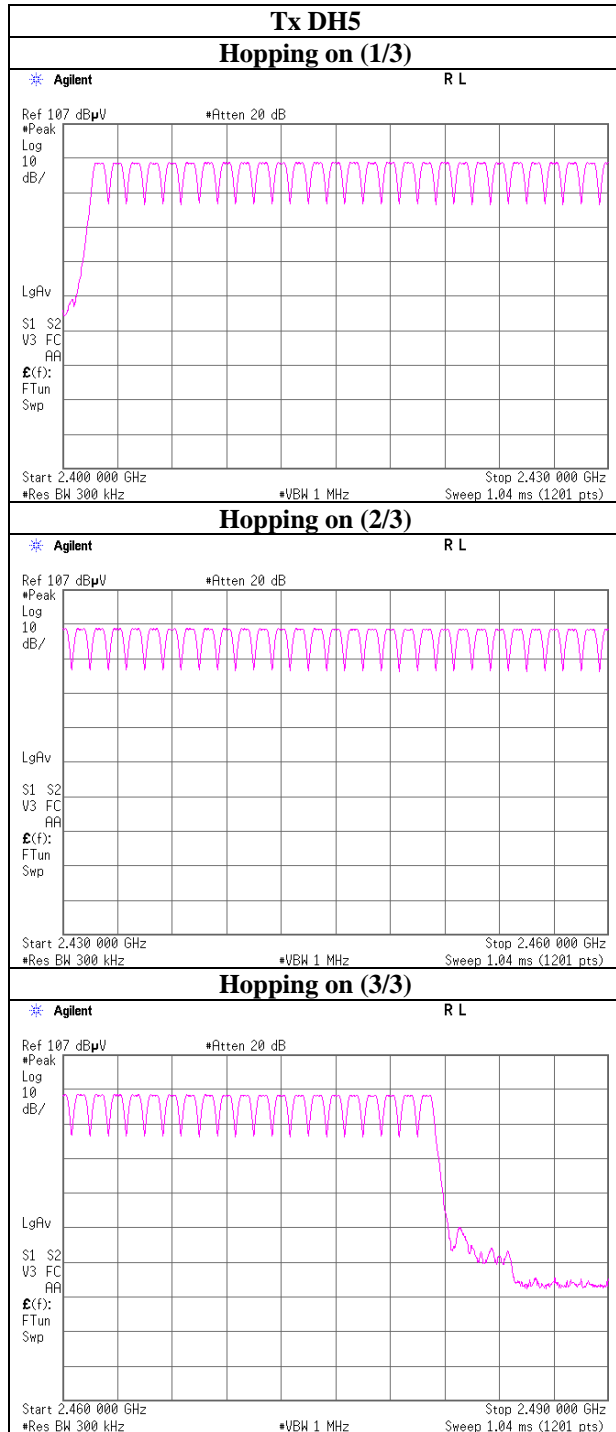
Number of Hopping Frequency

Test place	Head Office EMC Lab. No.4 and 6 Measurement Room	
Report No.	31IE0013-HO-01	
Date	04/11/2011	04/14/2011
Temperature/ Humidity	20 deg.C / 47% RH	25 deg.C / 27% RH
Engineer	Takumi Shimada	Takeshi Choda
Mode	Tx (Hopping on) DH5/3DH5/Inquiry	

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



Number of Hopping Frequency



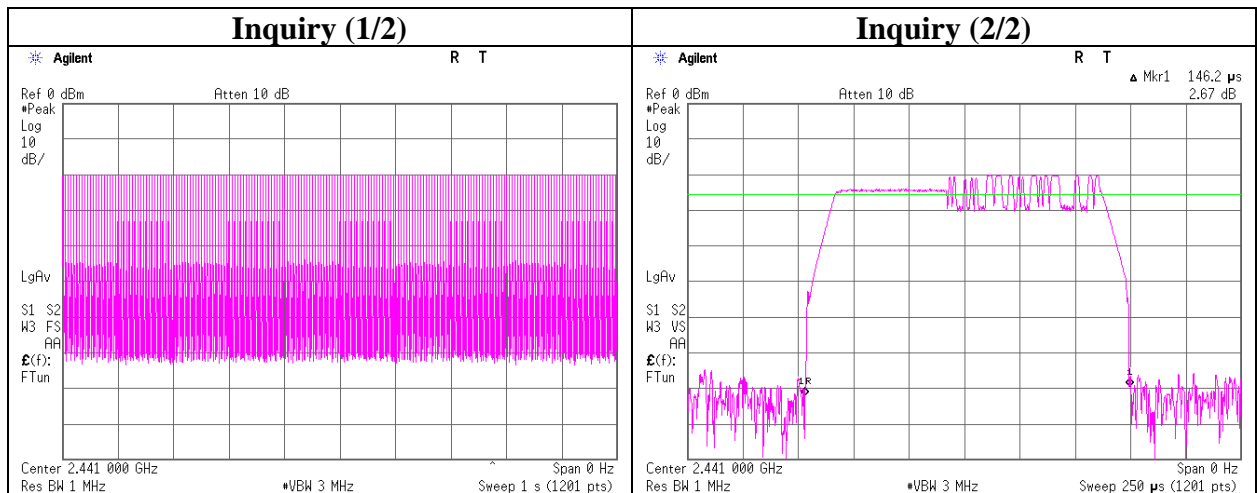
Dwell time

Test place	Head Office EMC Lab. No.4 Measurement Room
Report No.	31IE0013-HO-01
Date	04/14/2011
Temperature/ Humidity	25 deg.C / 27% RH
Engineer	Takeshi Choda
Mode	Tx (Hopping on) DH5/3DH5/Inquiry

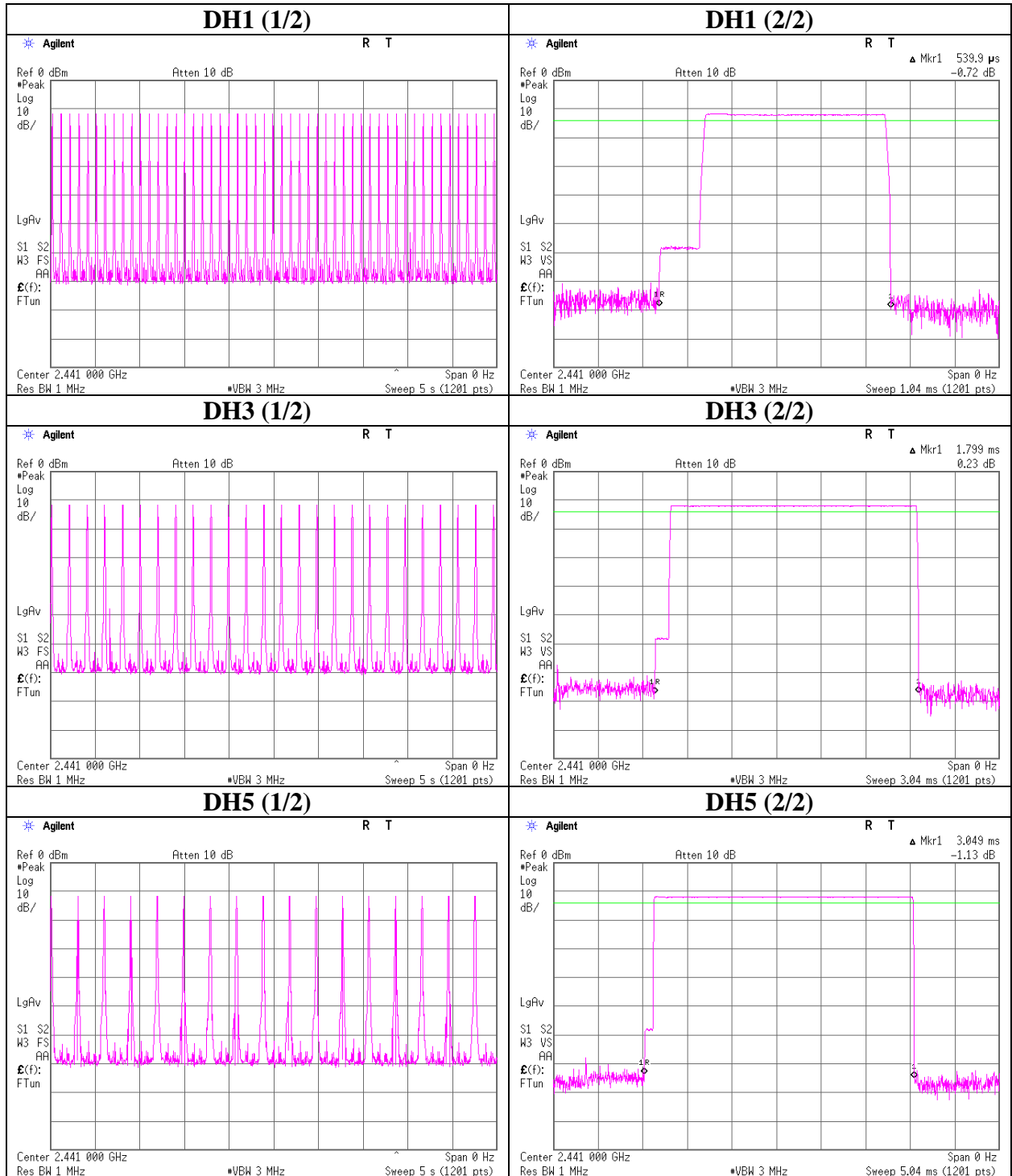
Mode	Number of transmission in a 31.6(79 Hopping x 0.4) / 12.8(32 Hopping x 0.4)second period	Length of transmission time [msec]	Result [msec]	Limit [msec]
DH1	51.0 times / 5 sec. x 31.6 sec. = 323 times	0.540	174	400
DH3	26.0 times / 5 sec. x 31.6 sec. = 165 times	1.799	297	400
DH5	17.0 times / 5 sec. x 31.6 sec. = 108 times	3.049	329	400
3DH1	51.0 times / 5 sec. x 31.6 sec. = 323 times	0.557	180	400
3DH3	26.0 times / 5 sec. x 31.6 sec. = 165 times	1.816	300	400
3DH5	17.0 times / 5 sec. x 31.6 sec. = 108 times	3.070	332	400
Inquiry	100.0 times / 1 sec. x 12.8 sec. = 1280 times	0.146	187	400

Sample Calculation

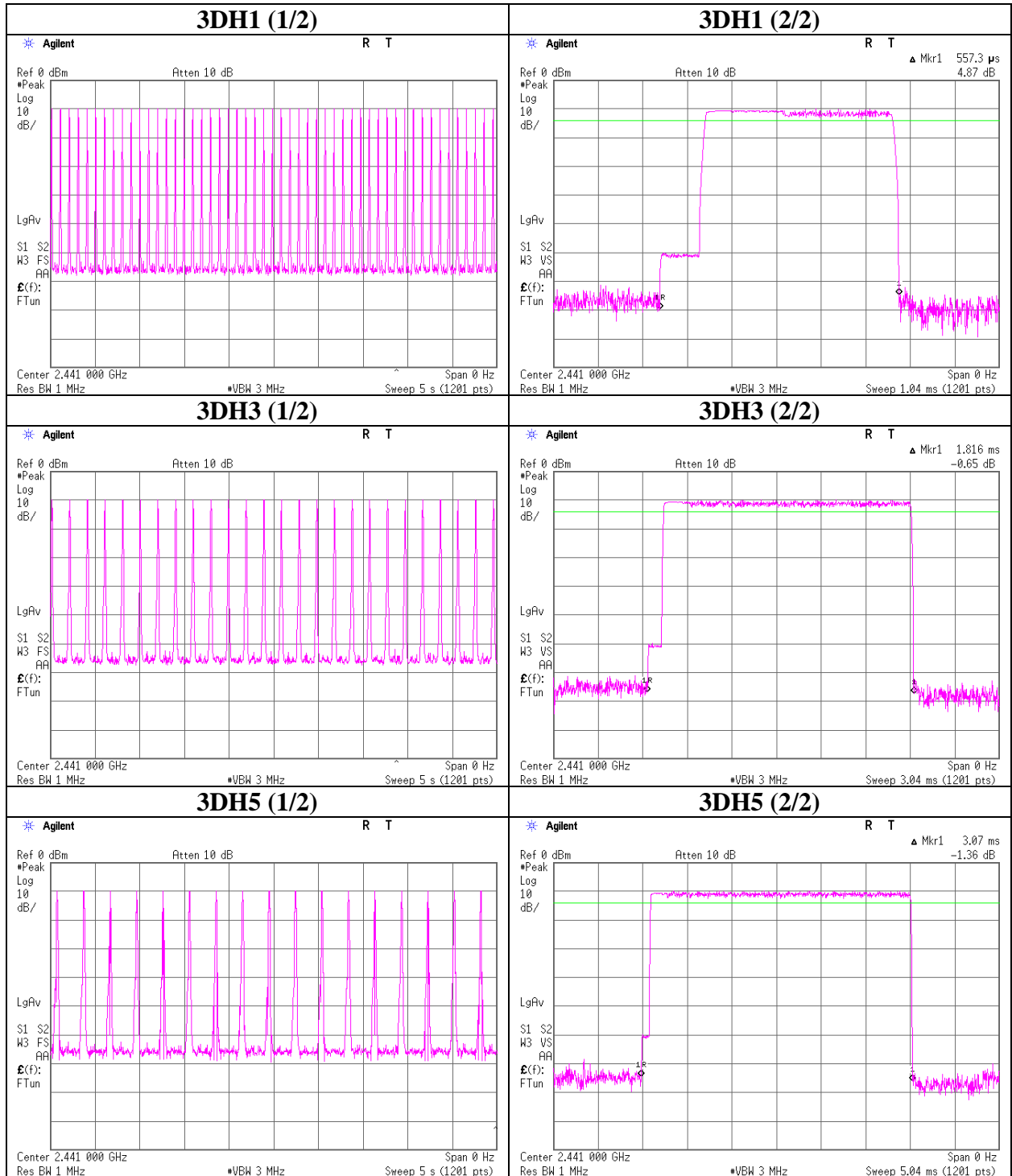
Result = Number of transmission x Length of transmission time



Dwell time



Dwell time



Maximum Peak Output Power

Test place	Head Office EMC Lab. No.4 and 6 Measurement Room		
Report No.	31IE0013-HO-01		
Date	04/11/2011	04/14/2011	
Temperature/ Humidity	20 deg.C / 47% RH	25 deg.C / 27% RH	
Engineer	Takumi Shimada	Takeshi Choda	
Mode	Tx (Hopping off) DH5/3DH5/Inquiry		

Mode	Freq. [MHz]	Reading [dBm]	Cable Loss [dB]	Atten. [dB]	Result		Limit		Margin [dB]
					[dBm]	[mW]	[dBm]	[mW]	
DH5	2402.0	-10.35	0.50	10.02	0.17	1.04	20.97	125	20.80
DH5	2441.0	-10.34	0.50	10.02	0.18	1.04	20.97	125	20.79
DH5	2480.0	-10.72	0.50	10.02	-0.20	0.95	20.97	125	21.17
3DH5	2402.0	-7.90	0.50	10.07	2.67	1.85	20.97	125	18.30
3DH5	2441.0	-8.16	0.50	10.07	2.41	1.74	20.97	125	18.56
3DH5	2480.0	-8.61	0.50	10.07	1.96	1.57	20.97	125	19.01
Inquiry	2441.0	-10.33	0.50	10.02	0.19	1.04	20.97	125	20.78

Sample Calculation:

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

Test was not performed at AFH mode, because the decrease of number of channel (min: 20ch) at AFH mode does not influence on the output power and bandwidth of the EUT.

As this device had AFH mode and frequency separation could not meet the requirement of over 20dB BW without 2/3 relaxation, 125mW power limit was applied to it.

Radiated Spurious Emission

Test place : Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. : 31IE0013-HO-01
Date : 04/12/2011 04/13/2011 04/14/2011
Temperature/ Humidity : 23 deg.C/ 33% RH 22 deg.C/ 34% RH 22 deg.C/ 35% RH
Engineer : Hiroshi Kukita Hiroshi Kukita Takeshi Choda
 (1-10GHz) (30-1000MHz) (above 10GHz)
Mode : Tx, DH5 2402MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	52.000	QP	22.0	10.3	7.5	32.2	7.6	40.0	32.4	
Hori	78.000	QP	22.2	6.8	7.8	32.1	4.7	40.0	35.3	
Hori	104.000	QP	22.2	10.6	8.2	32.1	8.9	43.5	34.6	
Hori	130.000	QP	22.1	13.6	8.5	32.1	12.1	43.5	31.4	
Hori	156.000	QP	21.8	15.3	8.7	32.0	13.8	43.5	29.7	
Hori	312.000	QP	21.6	15.5	10.0	32.0	15.1	46.0	30.9	
Hori	1601.997	PK	44.0	27.2	1.9	33.7	39.4	73.9	34.5	
Hori	2390.000	PK	45.3	27.7	2.3	32.6	42.7	73.9	31.2	
Hori	2400.000	PK	68.7	27.7	2.4	32.6	66.2	73.9	7.7	
Hori	3203.995	PK	43.4	29.4	2.8	32.2	43.4	73.9	30.5	
Hori	4804.000	PK	57.9	31.6	4.9	31.9	62.5	73.9	11.4	
Hori	7206.000	PK	48.3	36.2	6.0	32.4	58.1	73.9	15.8	
Hori	9608.000	PK	42.0	38.0	6.7	32.9	53.8	73.9	20.1	
Hori	24020.000	PK	46.1	37.8	-1.4	31.6	50.9	73.9	23.0	
Hori	1601.997	AV	34.4	27.2	1.9	33.7	29.8	53.9	24.1	
Hori	2390.000	AV	33.4	27.7	2.3	32.6	30.8	53.9	23.1	
Hori	3203.995	AV	31.8	29.4	2.8	32.2	31.8	53.9	22.1	
Vert	52.000	QP	22.1	10.3	7.5	32.2	7.7	40.0	32.3	
Vert	78.000	QP	23.4	6.8	7.8	32.1	5.9	40.0	34.1	
Vert	104.000	QP	22.7	10.6	8.2	32.1	9.4	43.5	34.1	
Vert	130.000	QP	22.1	13.6	8.5	32.1	12.1	43.5	31.4	
Vert	156.000	QP	21.8	15.3	8.7	32.0	13.8	43.5	29.7	
Vert	312.000	QP	21.6	15.5	10.0	32.0	15.1	46.0	30.9	
Vert	1601.997	PK	42.9	27.2	1.9	33.7	38.3	73.9	35.6	
Vert	2390.000	PK	43.5	27.7	2.3	32.6	40.9	73.9	33.0	
Vert	2400.000	PK	60.0	27.7	2.4	32.6	57.5	73.9	16.4	
Vert	3203.995	PK	43.0	29.4	2.8	32.2	43.0	73.9	30.9	
Vert	4804.000	PK	57.6	31.6	4.9	31.9	62.2	73.9	11.7	
Vert	7206.000	PK	45.9	36.2	6.0	32.4	55.7	73.9	18.2	
Vert	9608.000	PK	42.4	38.0	6.7	32.9	54.2	73.9	19.7	
Vert	24020.000	PK	45.8	37.8	-1.4	31.6	50.6	73.9	23.3	
Vert	1601.997	AV	33.4	27.2	1.9	33.7	28.8	53.9	25.1	
Vert	2390.000	AV	32.0	27.7	2.3	32.6	29.4	53.9	24.5	
Vert	3203.995	AV	32.5	29.4	2.8	32.2	32.5	53.9	21.4	

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

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

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

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

*For the band edge of the carrier and the harmonics that emission was found, the test was performed with VBW of the average detector set at 270Hz. For other average detectors, VBW was set at 10Hz.

Radiated Spurious Emission

Test place Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. 31IE0013-HO-01
Date 04/12/2011 04/13/2011 04/14/2011
Temperature/ Humidity 23 deg.C/ 33% RH 22 deg.C/ 34% RH 22 deg.C/ 35% RH
Engineer Hiroshi Kukita Hiroshi Kukita Takeshi Choda
(1-10GHz) (30-1000MHz) (above 10GHz)
Mode Tx, DH5 2441MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	52.000	QP	22.1	10.3	7.5	32.2	7.7	40.0	32.3	
Hori	78.000	QP	22.3	6.8	7.8	32.1	4.8	40.0	35.2	
Hori	104.000	QP	22.1	10.6	8.2	32.1	8.8	43.5	34.7	
Hori	130.000	QP	22.1	13.6	8.5	32.1	12.1	43.5	31.4	
Hori	156.000	QP	21.8	15.3	8.7	32.0	13.8	43.5	29.7	
Hori	312.000	QP	21.5	15.5	10.0	32.0	15.0	46.0	31.0	
Hori	1627.996	PK	45.7	27.2	2.0	33.7	41.2	73.9	32.7	
Hori	3255.997	PK	43.2	29.5	2.8	32.2	43.3	73.9	30.6	
Hori	4882.000	PK	56.1	31.9	5.0	31.9	61.1	73.9	12.8	
Hori	7323.000	PK	42.0	36.2	6.1	32.4	51.9	73.9	22.0	
Hori	9764.000	PK	42.3	38.1	6.7	32.9	54.2	73.9	19.7	
Hori	24410.000	PK	44.7	37.9	-1.3	31.4	49.9	73.9	24.0	
Hori	1627.996	AV	38.0	27.2	2.0	33.7	33.5	53.9	20.4	
Hori	3255.997	AV	32.4	29.5	2.8	32.2	32.5	53.9	21.4	
Vert	52.000	QP	22.0	10.3	7.5	32.2	7.6	40.0	32.4	
Vert	78.000	QP	23.3	6.8	7.8	32.1	5.8	40.0	34.2	
Vert	104.000	QP	22.6	10.6	8.2	32.1	9.3	43.5	34.2	
Vert	130.000	QP	22.1	13.6	8.5	32.1	12.1	43.5	31.4	
Vert	156.000	QP	21.7	15.3	8.7	32.0	13.7	43.5	29.8	
Vert	312.000	QP	21.5	15.5	10.0	32.0	15.0	46.0	31.0	
Vert	1627.996	PK	44.4	27.2	2.0	33.7	39.9	73.9	34.1	
Vert	3256.022	PK	42.8	29.5	2.8	32.2	42.9	73.9	31.0	
Vert	4882.000	PK	54.4	31.9	5.0	31.9	59.4	73.9	14.5	
Vert	7323.000	PK	46.0	36.2	6.1	32.4	55.9	73.9	18.0	
Vert	9764.000	PK	42.3	38.1	6.7	32.9	54.2	73.9	19.7	
Vert	24410.000	PK	45.0	37.9	-1.3	31.4	50.2	73.9	23.7	
Vert	1627.996	AV	35.6	27.2	2.0	33.7	31.1	53.9	22.8	
Vert	3256.022	AV	32.4	29.5	2.8	32.2	32.5	53.9	21.4	

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

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

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

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

*For the band edge of the carrier and the harmonics that emission was found, the test was performed with VBW of the average detector set at 270Hz. For other average detectors, VBW was set at 10Hz.

Radiated Spurious Emission
(Dwell time factor relaxation)

Test place Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. 31IE0013-HO-01
Date 04/12/2011 04/14/2011
Temperature/ Humidity 23 deg.C/ 33% RH 22 deg.C/ 35% RH
Engineer Hiroshi Kukita Takeshi Choda
(1-10GHz) (above 10GHz)
Mode Tx, DH5 2480MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	2483.500	AV	51.3	27.6	2.4	32.6	-23.9	24.8	53.9	29.1	
Hori	4960.000	AV	47.3	32.1	4.9	31.9	-23.9	28.5	53.9	25.4	
Hori	7440.000	AV	32.0	36.2	6.1	32.4	-23.9	18.0	53.9	35.9	
Hori	9920.000	AV	31.8	38.2	6.8	32.9	-23.9	20.0	53.9	33.9	
Hori	24800.000	AV	35.0	38.0	-1.1	31.2	-23.9	16.8	53.9	37.1	
Vert	2483.500	AV	48.9	27.6	2.4	32.6	-23.9	22.4	53.9	31.5	
Vert	4960.000	AV	46.8	32.1	4.9	31.9	-23.9	28.0	53.9	25.9	
Vert	7440.000	AV	32.8	36.2	6.1	32.4	-23.9	18.8	53.9	35.1	
Vert	9920.000	AV	31.8	38.2	6.8	32.9	-23.9	20.0	53.9	33.9	
Vert	24800.000	AV	35.0	38.0	-1.1	31.2	-23.9	16.8	53.9	37.1	

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

- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

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

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

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

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

*For the band edge of the carrier and the harmonics that emission was found, the test was performed with VBW of the average detector set at 270Hz.
For other average detectors, VBW was set at 10Hz.

Radiated Spurious Emission

Test place : Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. : 31IE0013-HO-01
Date : 04/12/2011 04/13/2011 04/14/2011
Temperature/ Humidity : 23 deg.C/ 33% RH 22 deg.C/ 34% RH 22 deg.C/ 35% RH
Engineer : Hiroshi Kukita Hiroshi Kukita Takeshi Choda
Mode : (1-10GHz) (30-1000MHz) (above 10GHz)
Tx, 3DH5 2402MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	52.000	QP	22.2	10.3	7.5	32.2	7.8	40.0	32.2	
Hori	78.000	QP	22.2	6.8	7.8	32.1	4.7	40.0	35.3	
Hori	104.000	QP	22.2	10.6	8.2	32.1	8.9	43.5	34.6	
Hori	130.000	QP	22.2	13.6	8.5	32.1	12.2	43.5	31.3	
Hori	156.000	QP	21.2	15.3	8.7	32.0	13.2	43.5	30.3	
Hori	312.000	QP	21.7	15.5	10.0	32.0	15.2	46.0	30.8	
Hori	1601.997	PK	43.4	27.2	1.9	33.7	38.8	73.9	35.1	
Hori	2390.000	PK	48.0	27.7	2.3	32.6	45.4	73.9	28.5	
Hori	2400.000	PK	65.9	27.7	2.4	32.6	63.4	73.9	10.5	
Hori	3157.000	PK	42.4	29.4	2.7	32.2	42.3	73.9	31.6	
Hori	4804.000	PK	48.0	31.6	4.9	31.9	52.6	73.9	21.3	
Hori	7206.000	PK	42.9	36.2	6.0	32.4	52.7	73.9	21.2	
Hori	9608.000	PK	42.2	38.0	6.7	32.9	54.0	73.9	19.9	
Hori	24020.000	PK	45.6	37.8	-1.4	31.6	50.4	73.9	23.5	
Hori	1601.997	AV	33.3	27.2	1.9	33.7	28.7	53.9	25.2	
Hori	2390.000	AV	36.0	27.7	2.3	32.6	33.4	53.9	20.5	
Hori	3157.000	AV	30.2	29.4	2.7	32.2	30.1	53.9	23.8	
Vert	52.000	QP	22.2	10.3	7.5	32.2	7.8	40.0	32.2	
Vert	78.000	QP	23.3	6.8	7.8	32.1	5.8	40.0	34.2	
Vert	104.000	QP	22.2	10.6	8.2	32.1	8.9	43.5	34.6	
Vert	130.000	QP	22.3	13.6	8.5	32.1	12.3	43.5	31.2	
Vert	156.000	QP	21.5	15.3	8.7	32.0	13.5	43.5	30.0	
Vert	312.000	QP	21.6	15.5	10.0	32.0	15.1	46.0	30.9	
Vert	1601.997	PK	44.4	27.2	1.9	33.7	39.8	73.9	34.1	
Vert	2390.000	PK	46.4	27.7	2.3	32.6	43.8	73.9	30.1	
Vert	2400.000	PK	63.9	27.7	2.4	32.6	61.4	73.9	12.5	
Vert	3157.000	PK	43.0	29.4	2.7	32.2	42.9	73.9	31.0	
Vert	4804.000	PK	46.3	31.6	4.9	31.9	50.9	73.9	23.0	
Vert	7206.000	PK	42.0	36.2	6.0	32.4	51.8	73.9	22.1	
Vert	9608.000	PK	42.3	38.0	6.7	32.9	54.1	73.9	19.8	
Vert	24020.000	PK	45.9	37.8	-1.4	31.6	50.7	73.9	23.2	
Vert	1601.997	AV	33.2	27.2	1.9	33.7	28.6	53.9	25.3	
Vert	2390.000	AV	33.7	27.7	2.3	32.6	31.1	53.9	22.8	
Vert	3157.000	AV	30.3	29.4	2.7	32.2	30.2	53.9	23.7	

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

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

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

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

*For the band edge of the carrier and the harmonics that emission was found, the test was performed with VBW of the average detector set at 270Hz. For other average detectors, VBW was set at 10Hz.

Radiated Spurious Emission
(Dwell time factor relaxation)

Test place Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. 31IE0013-HO-01
Date 04/12/2011 04/14/2011
Temperature/ Humidity 23 deg.C/ 33% RH 22 deg.C/ 35% RH
Engineer Hiroshi Kukita Takeshi Choda
(1-10GHz) (above 10GHz)
Mode Tx, 3DH5 2402MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	2400.000	AV	56.7	27.7	2.4	32.6	-22.9	31.3	53.9	22.6	
Hori	4804.000	AV	39.8	31.6	4.9	31.9	-22.9	21.5	53.9	32.4	
Hori	7206.000	AV	31.2	36.2	6.0	32.4	-22.9	18.1	53.9	35.8	
Hori	9608.000	AV	30.8	38.0	6.7	32.9	-22.9	19.7	53.9	34.2	
Hori	24020.000	AV	33.4	37.8	-1.4	31.6	-22.9	15.3	53.9	38.6	
Vert	2400.000	AV	49.0	27.7	2.4	32.6	-22.9	23.6	53.9	30.3	
Vert	4804.000	AV	36.6	31.6	4.9	31.9	-22.9	18.3	53.9	35.6	
Vert	7206.000	AV	31.2	36.2	6.0	32.4	-22.9	18.1	53.9	35.8	
Vert	9608.000	AV	30.9	38.0	6.7	32.9	-22.9	19.8	53.9	34.1	
Vert	24020.000	AV	33.4	37.8	-1.4	31.6	-22.9	15.3	53.9	38.6	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz))
- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

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

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

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

*For the band edge of the carrier and the harmonics that emission was found, the test was performed with VBW of the average detector set at 270Hz.
For other average detectors, VBW was set at 10Hz.

Radiated Spurious Emission

Test place Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. 31IE0013-HO-01
Date 04/12/2011 04/13/2011 04/14/2011
Temperature/ Humidity 23 deg.C/ 33% RH 22 deg.C/ 34% RH 22 deg.C/ 35% RH
Engineer Hiroshi Kukita Hiroshi Kukita Takeshi Choda
(1-10GHz) (30-1000MHz) (above 10GHz)
Mode Tx, 3DH5 2441MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	52.000	QP	22.2	10.3	7.5	32.2	7.8	40.0	32.2	
Hori	78.000	QP	22.2	6.8	7.8	32.1	4.7	40.0	35.3	
Hori	104.000	QP	22.1	10.6	8.2	32.1	8.8	43.5	34.7	
Hori	130.000	QP	22.3	13.6	8.5	32.1	12.3	43.5	31.2	
Hori	156.000	QP	21.3	15.3	8.7	32.0	13.3	43.5	30.2	
Hori	312.000	QP	21.5	15.5	10.0	32.0	15.0	46.0	31.0	
Hori	1627.997	PK	44.3	27.2	2.0	33.7	39.8	73.9	34.1	
Hori	3217.000	PK	41.6	29.5	2.8	32.2	41.7	73.9	32.2	
Hori	4882.000	PK	44.7	31.9	5.0	31.9	49.7	73.9	24.2	
Hori	7323.000	PK	42.5	36.2	6.1	32.4	52.4	73.9	21.5	
Hori	9764.000	PK	43.0	38.1	6.7	32.9	54.9	73.9	19.0	
Hori	24410.000	PK	44.8	37.9	-1.3	31.4	50.0	73.9	23.9	
Hori	1627.997	AV	34.3	27.2	2.0	33.7	29.8	53.9	24.1	
Hori	3217.000	AV	30.2	29.5	2.8	32.2	30.3	53.9	23.6	
Vert	52.000	QP	22.1	10.3	7.5	32.2	7.7	40.0	32.3	
Vert	78.000	QP	23.2	6.8	7.8	32.1	5.7	40.0	34.3	
Vert	104.000	QP	22.3	10.6	8.2	32.1	9.0	43.5	34.5	
Vert	130.000	QP	22.2	13.6	8.5	32.1	12.2	43.5	31.3	
Vert	156.000	QP	21.4	15.3	8.7	32.0	13.4	43.5	30.1	
Vert	312.000	QP	21.6	15.5	10.0	32.0	15.1	46.0	30.9	
Vert	1627.996	PK	44.0	27.2	2.0	33.7	39.5	73.9	34.4	
Vert	3217.000	PK	41.5	29.5	2.8	32.2	41.6	73.9	32.3	
Vert	4882.000	PK	42.8	31.9	5.0	31.9	47.8	73.9	26.1	
Vert	7323.000	PK	42.4	36.2	6.1	32.4	52.3	73.9	21.6	
Vert	9764.000	PK	42.8	38.1	6.7	32.9	54.7	73.9	19.2	
Vert	24410.000	PK	45.3	37.9	-1.3	31.4	50.5	73.9	23.4	
Vert	1627.996	AV	33.7	27.2	2.0	33.7	29.2	53.9	24.7	
Vert	3217.000	AV	30.2	29.5	2.8	32.2	30.3	53.9	23.6	

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

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

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

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

*For the band edge of the carrier and the harmonics that emission was found, the test was performed with VBW of the average detector set at 270Hz. For other average detectors, VBW was set at 10Hz.

Radiated Spurious Emission

Test place Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. 31IE0013-HO-01
Date 04/13/2011 04/14/2011
Temperature/ Humidity 22 deg.C/ 34% RH 22 deg.C/ 35% RH
Engineer Hiroshi Kukita Takeshi Choda
Mode (below 1GHz) (above 1GHz)
Tx, 3DH5 2480MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	52.000	QP	22.2	10.3	7.5	32.2	7.8	40.0	32.2	
Hori	78.000	QP	22.3	6.8	7.8	32.1	4.8	40.0	35.2	
Hori	104.000	QP	22.2	10.6	8.2	32.1	8.9	43.5	34.6	
Hori	130.000	QP	22.2	13.6	8.5	32.1	12.2	43.5	31.3	
Hori	156.000	QP	21.3	15.3	8.7	32.0	13.3	43.5	30.2	
Hori	312.000	QP	21.7	15.5	10.0	32.0	15.2	46.0	30.8	
Hori	1653.000	PK	45.2	27.3	2.0	33.6	40.9	73.9	33.0	
Hori	2483.500	PK	66.5	27.6	2.4	32.6	63.9	73.9	10.0	
Hori	3083.000	PK	41.6	29.2	2.7	32.2	41.3	73.9	32.6	
Hori	4960.000	PK	42.6	32.1	4.9	31.9	47.7	73.9	26.2	
Hori	7440.000	PK	42.3	36.2	6.1	32.4	52.2	73.9	21.7	
Hori	9920.000	PK	42.1	38.2	6.8	32.9	54.2	73.9	19.7	
Hori	24800.000	PK	47.0	38.0	-1.1	31.2	52.7	73.9	21.2	
Hori	1653.000	AV	36.1	27.3	2.0	33.6	31.8	53.9	22.1	
Hori	3083.000	AV	29.5	29.2	2.7	32.2	29.2	53.9	24.7	
Vert	52.000	QP	22.2	10.3	7.5	32.2	7.8	40.0	32.2	
Vert	78.000	QP	23.1	6.8	7.8	32.1	5.6	40.0	34.4	
Vert	104.000	QP	22.2	10.6	8.2	32.1	8.9	43.5	34.6	
Vert	130.000	QP	22.3	13.6	8.5	32.1	12.3	43.5	31.2	
Vert	156.000	QP	21.5	15.3	8.7	32.0	13.5	43.5	30.0	
Vert	312.000	QP	21.6	15.5	10.0	32.0	15.1	46.0	30.9	
Vert	1653.000	PK	44.8	27.3	2.0	33.6	40.5	73.9	33.4	
Vert	2483.500	PK	62.0	27.6	2.4	32.6	59.4	73.9	14.5	
Vert	3083.000	PK	41.5	29.2	2.7	32.2	41.2	73.9	32.7	
Vert	4960.000	PK	42.9	32.1	4.9	31.9	48.0	73.9	25.9	
Vert	7440.000	PK	42.1	36.2	6.1	32.4	52.0	73.9	21.9	
Vert	9920.000	PK	42.2	38.2	6.8	32.9	54.3	73.9	19.6	
Vert	24800.000	PK	47.3	38.0	-1.1	31.2	53.0	73.9	20.9	
Vert	1653.000	AV	35.0	27.3	2.0	33.6	30.7	53.9	23.2	
Vert	3083.000	AV	29.5	29.2	2.7	32.2	29.2	53.9	24.7	

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

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

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

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

*For the band edge of the carrier and the harmonics that emission was found, the test was performed with VBW of the average detector set at 270Hz. For other average detectors, VBW was set at 10Hz.

Radiated Spurious Emission
(Dwell time factor relaxation)

Test place Head Office EMC Lab. No.3 Semi Anechoic Chamber
Report No. 31IE0013-HO-01
Date 04/12/2011 04/14/2011
Temperature/ Humidity 23 deg.C/ 33% RH 22 deg.C/ 35% RH
Engineer Hiroshi Kukita Takeshi Choda
(1-10GHz) (above 10GHz)
Mode Tx, 3DH5 2480MHz

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant Factor [dB/m]	Loss [dB]	Gain [dB]	Dwell Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
Hori	2483.500	AV	53.2	27.6	2.4	32.6	-22.9	27.7	53.9	26.2	
Hori	4960.000	AV	30.3	32.1	4.9	31.9	-22.9	12.5	53.9	41.4	
Hori	7440.000	AV	30.7	36.2	6.1	32.4	-22.9	17.7	53.9	36.2	
Hori	9920.000	AV	30.3	38.2	6.8	32.9	-22.9	19.5	53.9	34.4	
Hori	24800.000	AV	35.0	38.0	-1.1	31.2	-22.9	17.8	53.9	36.1	
Vert	2483.500	AV	50.4	27.6	2.4	32.6	-22.9	24.9	53.9	29.0	
Vert	4960.000	AV	30.2	32.1	4.9	31.9	-22.9	12.4	53.9	41.5	
Vert	7440.000	AV	30.6	36.2	6.1	32.4	-22.9	17.6	53.9	36.3	
Vert	9920.000	AV	30.6	38.2	6.8	32.9	-22.9	19.8	53.9	34.1	
Vert	24800.000	AV	35.0	38.0	-1.1	31.2	-22.9	17.8	53.9	36.1	

Result = Reading + Ant Factor + Loss (Cable+Attenuator+Filter-Distance factor(above 10GHz))
- Gain(Amplifier) + Dwell time factor (Refer to dwell time data sheet)

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

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

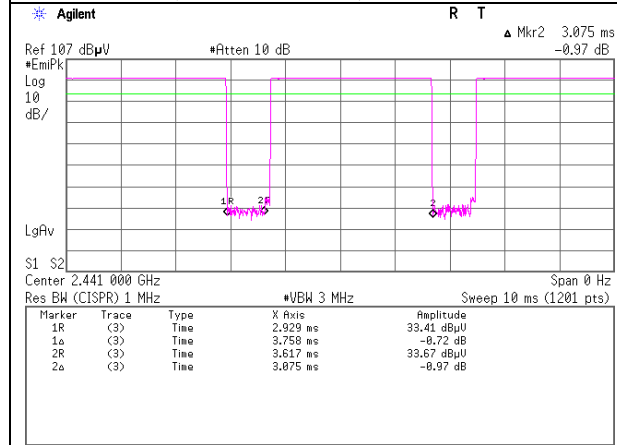
Distance factor: 10GHz-26.5GHz 20log(3.0m/1.0m)= 9.5dB
26.5GHz-40GHz 20log(3.0m/0.5m)=15.6dB

*For the band edge of the carrier and the harmonics that emission was found, the test was performed with VBW of the average detector set at 270Hz.
For other average detectors, VBW was set at 10Hz.

VBW (AV) Calculation

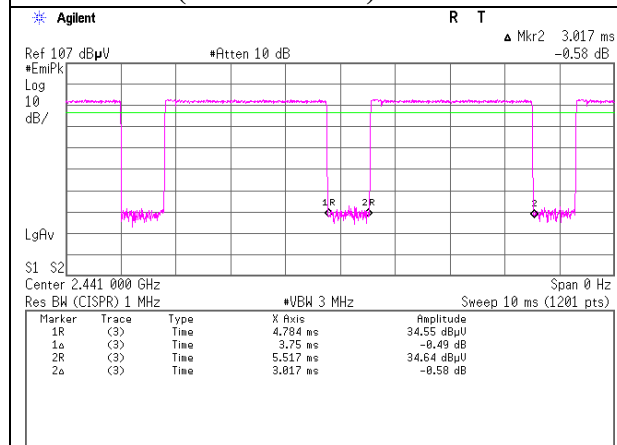
Tx DH5

VBW: $1/x = 266\text{Hz} < 270\text{Hz}$
x: (Tx on+Tx off) = 3.758ms



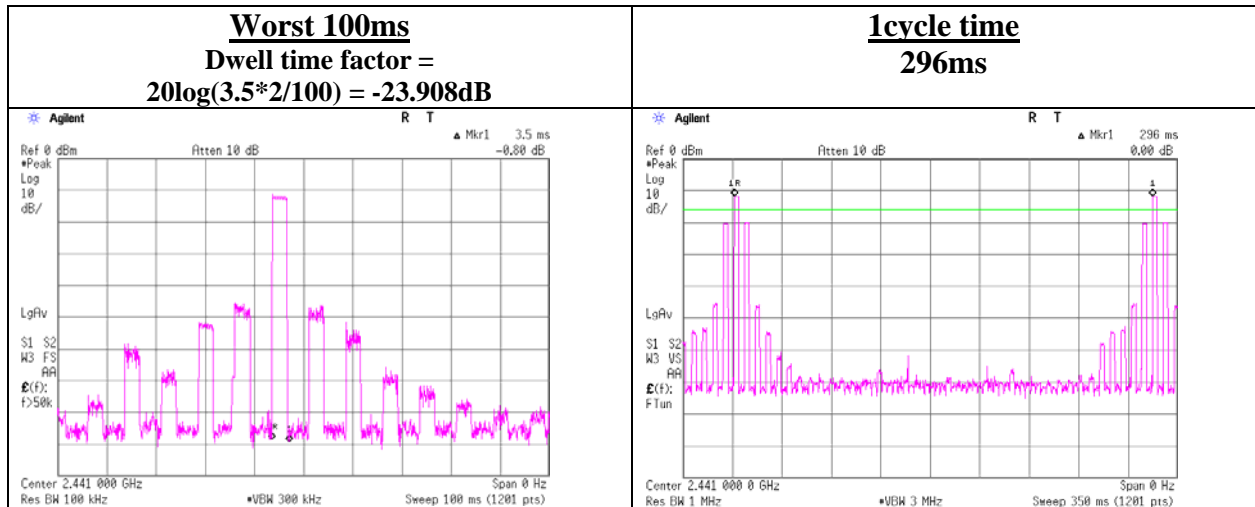
Tx 3DH5

VBW: $1/x = 266\text{Hz} < 270\text{Hz}$
x: (Tx on+Tx off) = 3.75ms

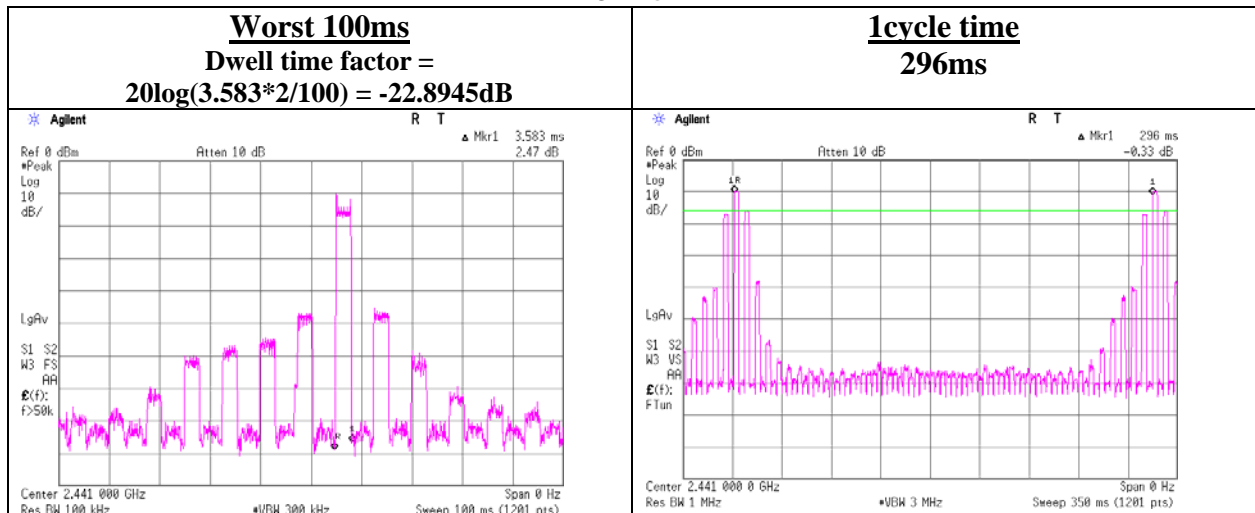


Dwell time factor

DH5

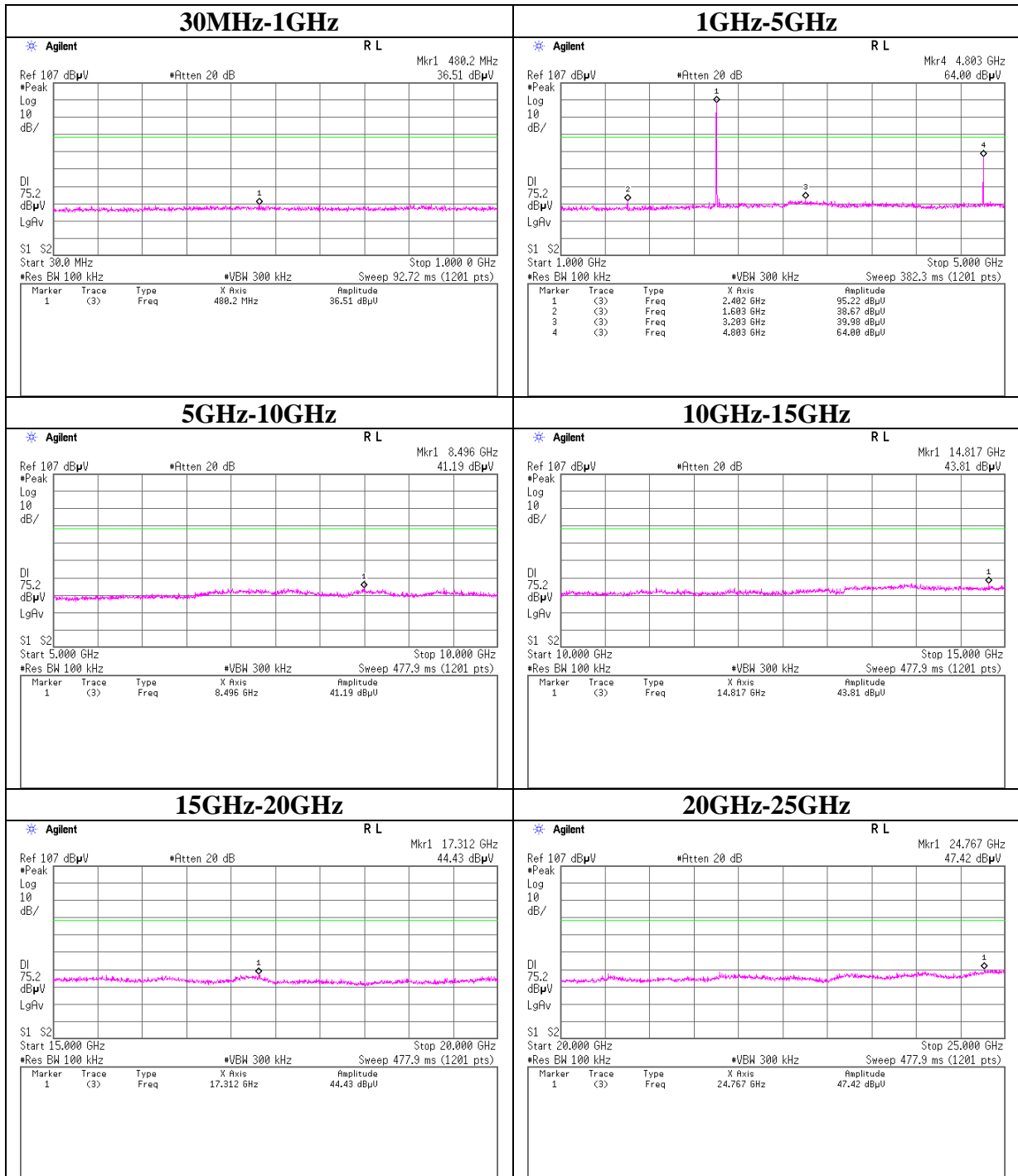


3DH5



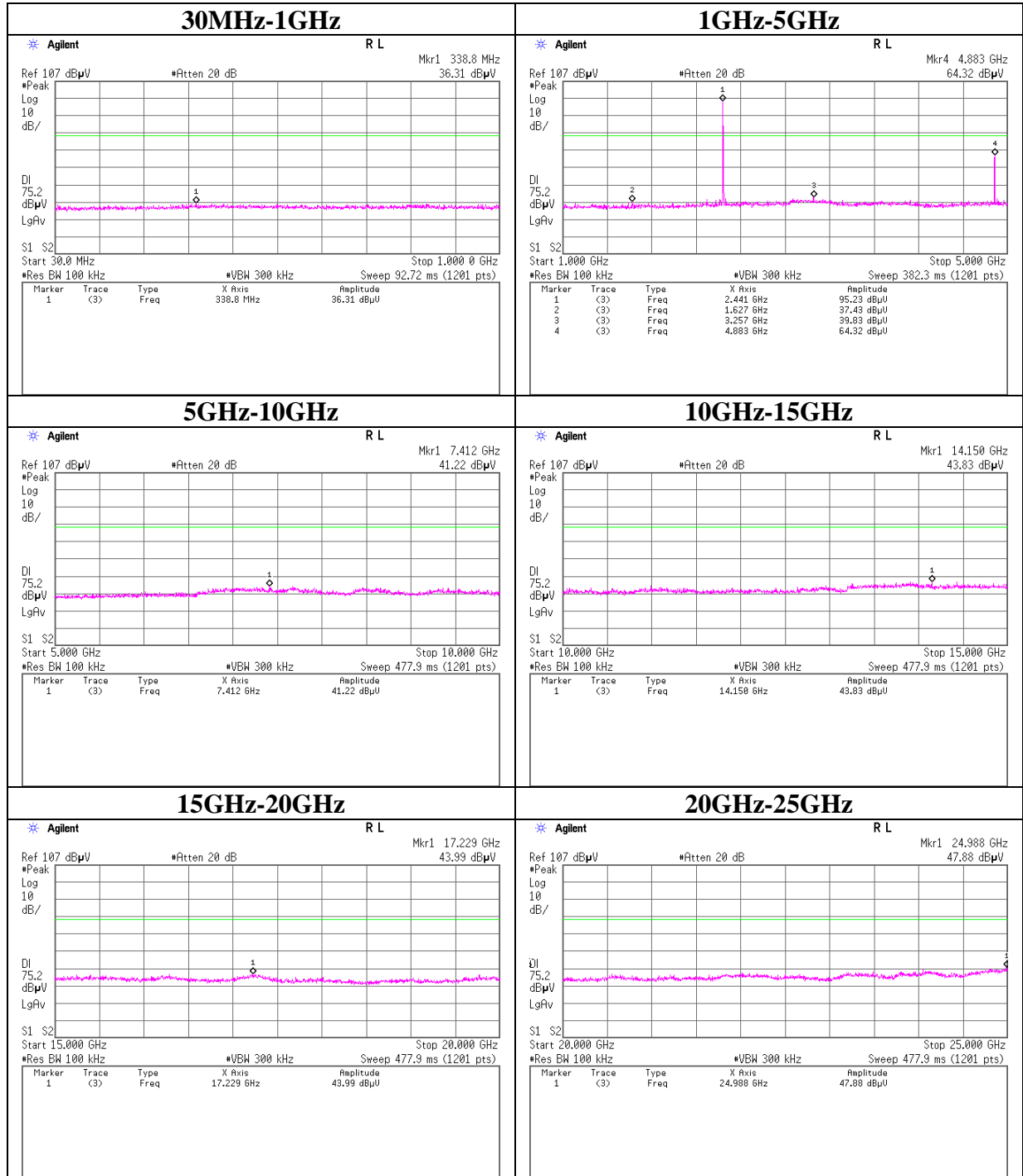
Conducted Spurious Emission

Tx DH5 2402MHz



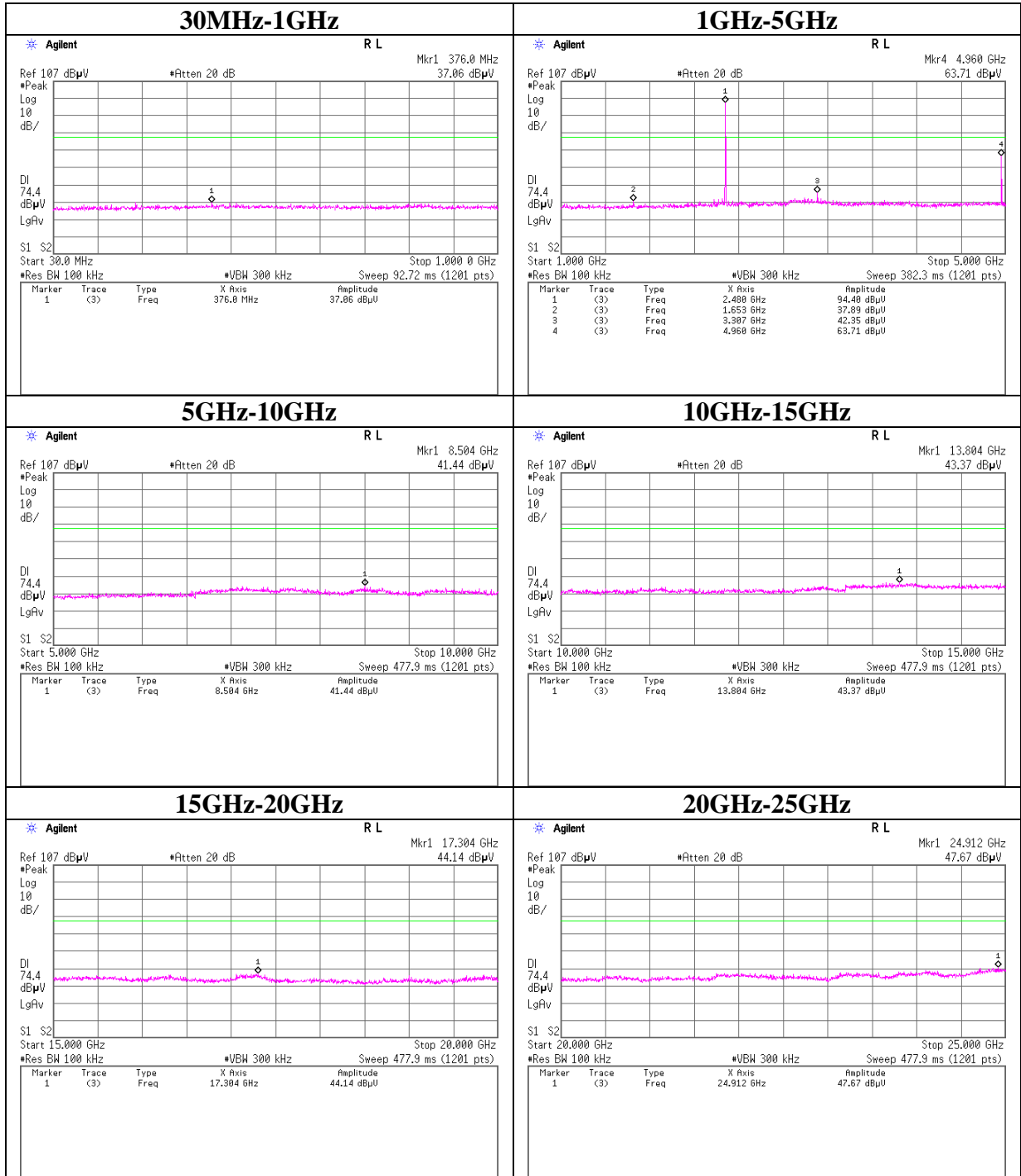
Conducted Spurious Emission

Tx DH5 2441MHz



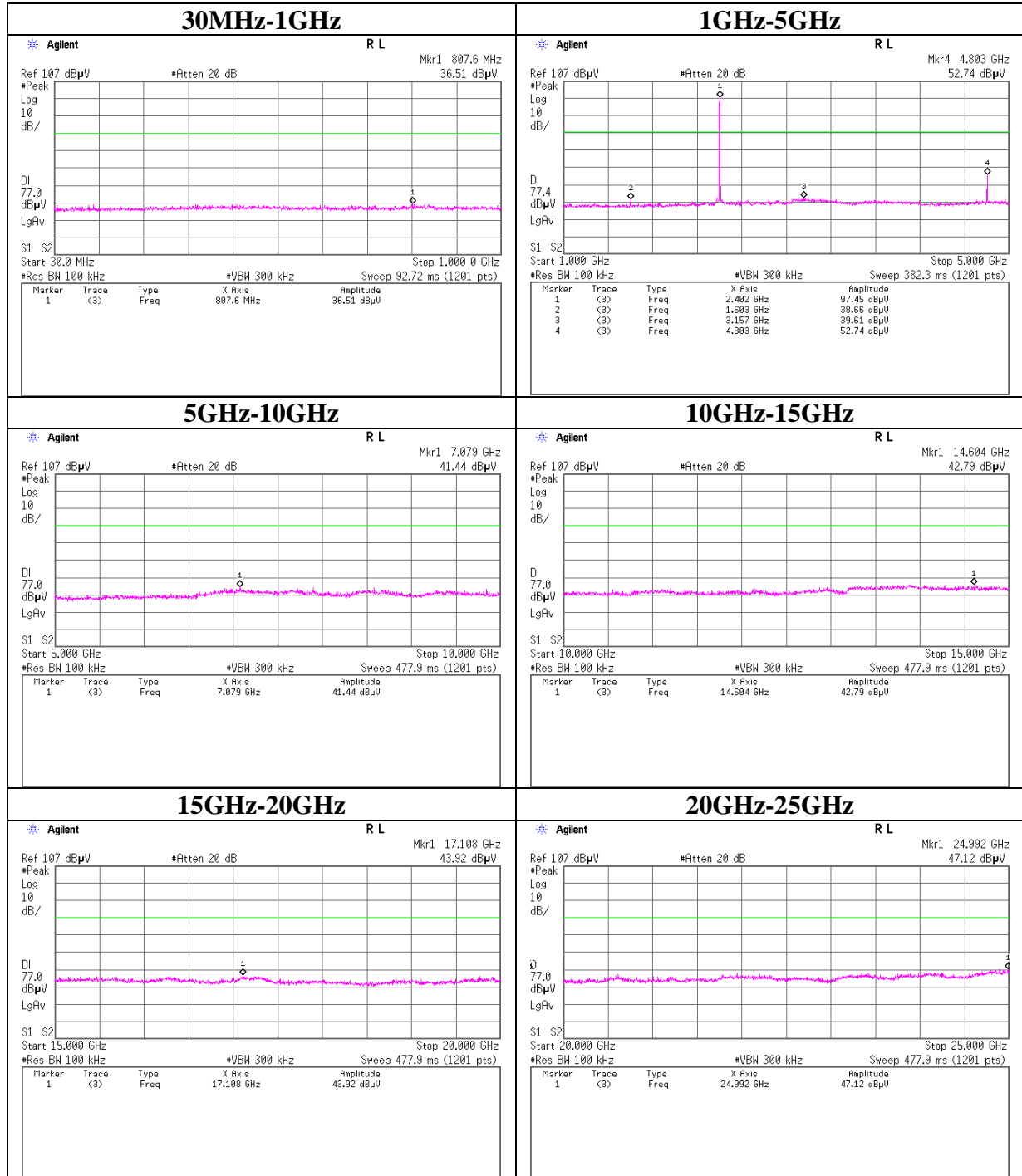
Conducted Spurious Emission

Tx DH5 2480MHz



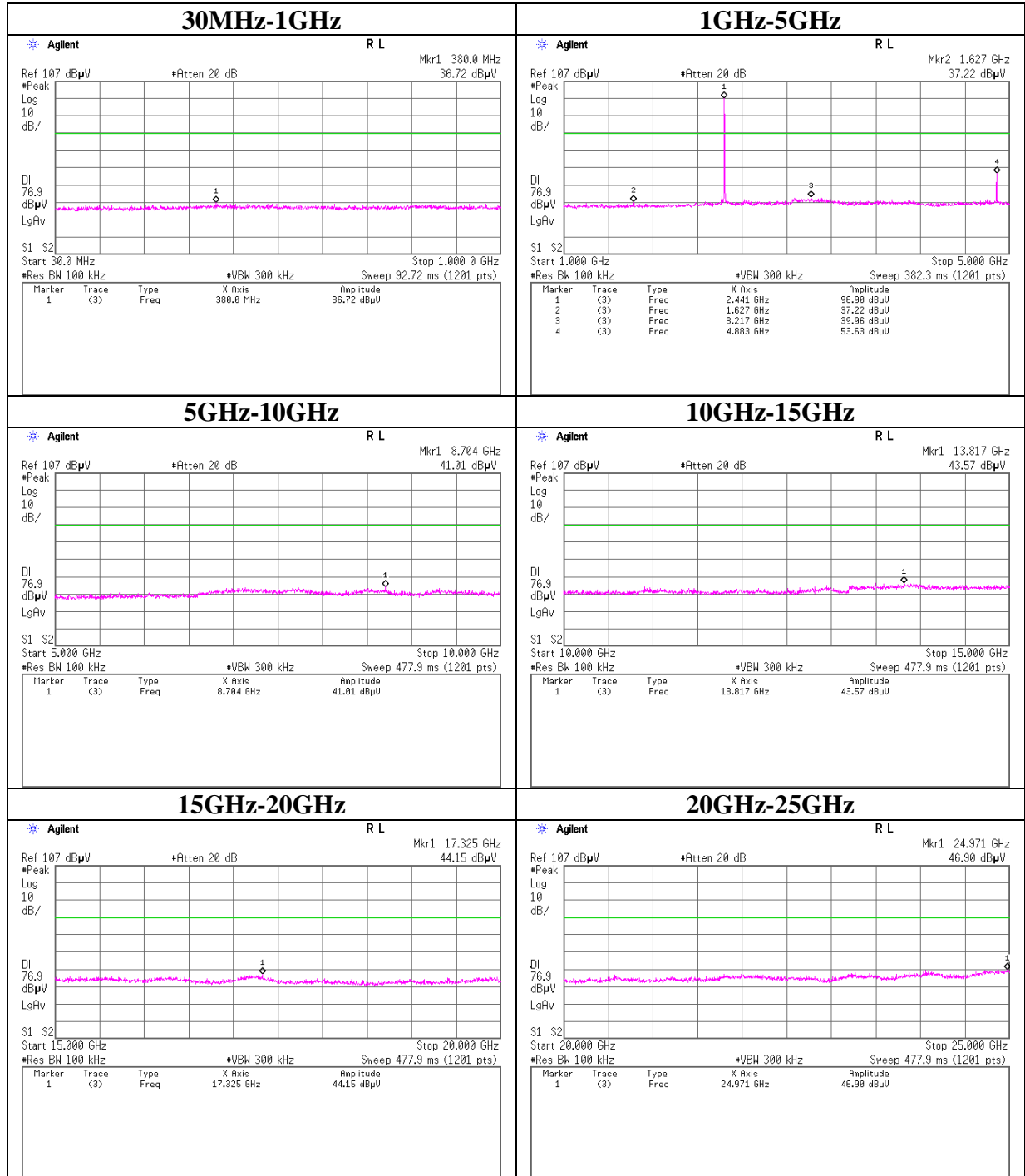
Conducted Spurious Emission

Tx 3DH5 2402MHz



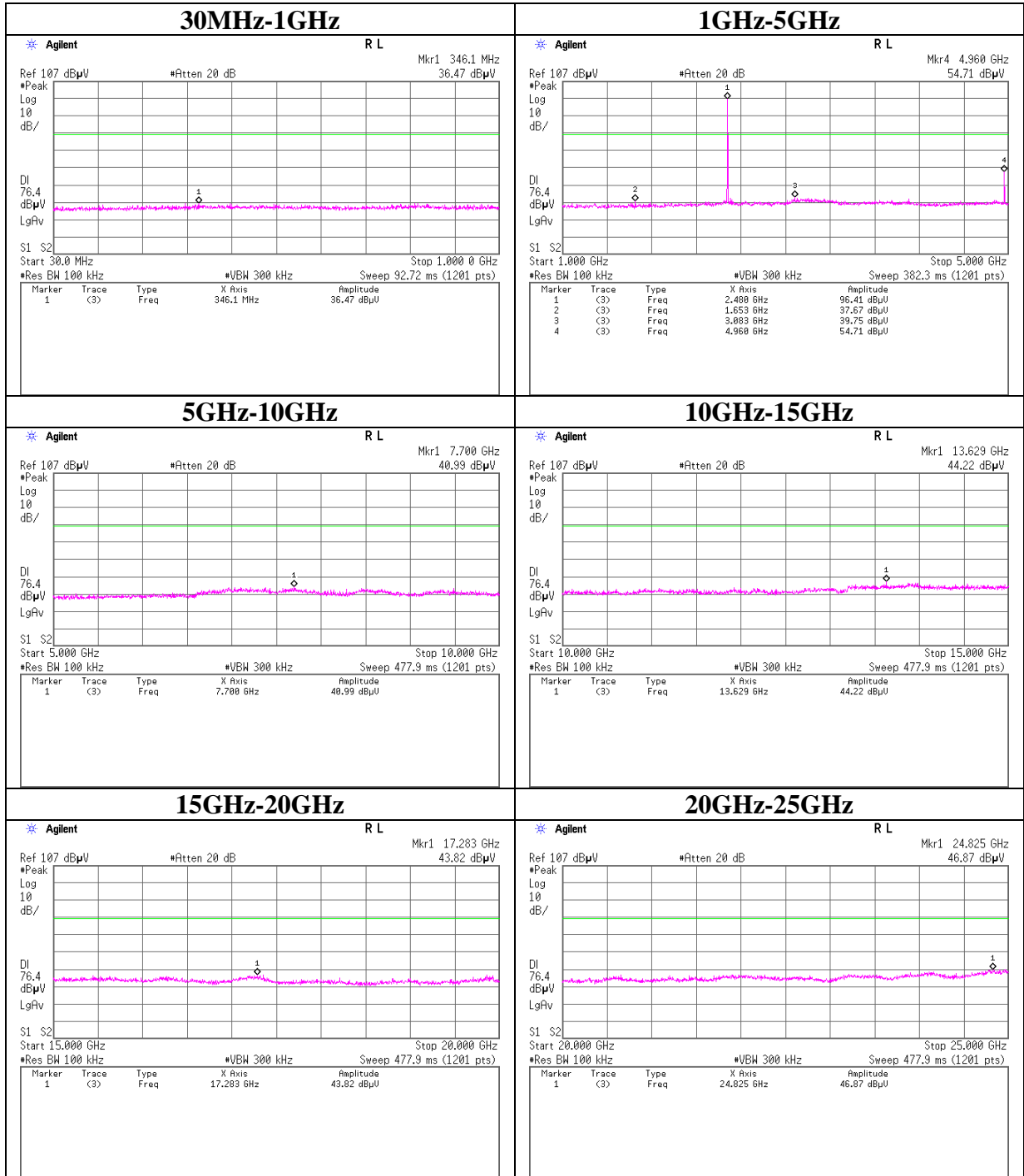
Conducted Spurious Emission

Tx 3DH5 2441MHz



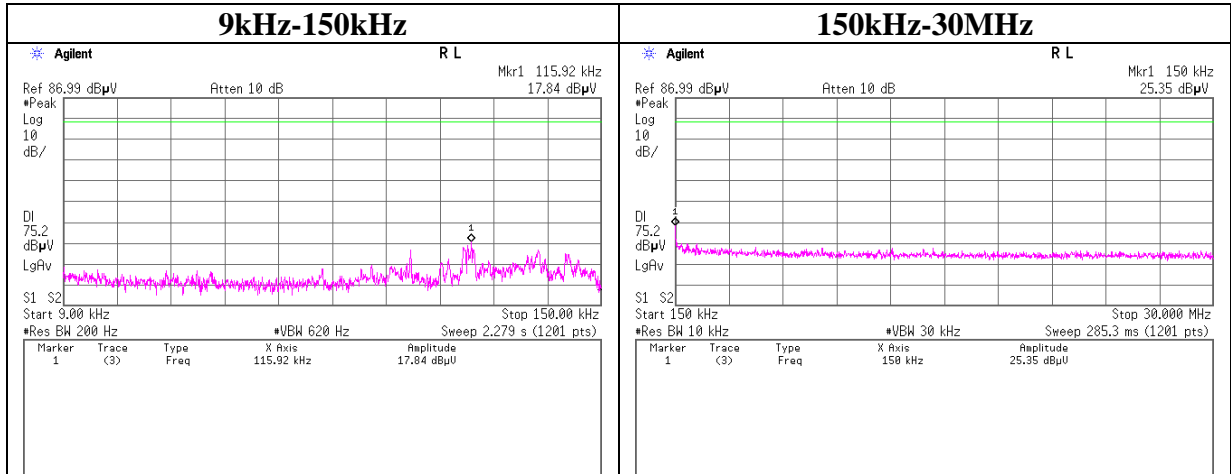
Conducted Spurious Emission

Tx 3DH5 2480MHz

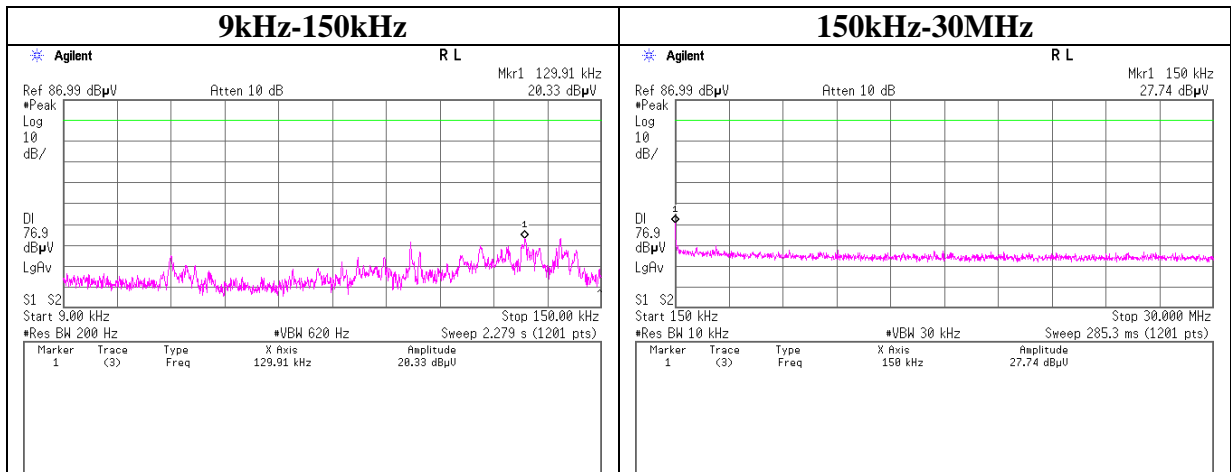


Conducted Spurious Emission(below 30MHz)

Tx DH5 2441MHz

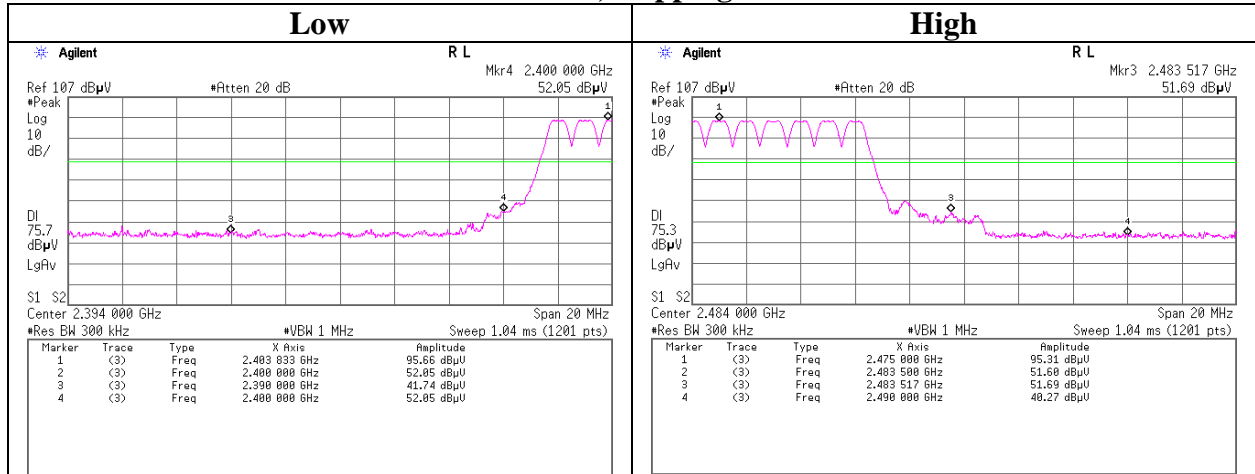


Tx 3DH5 2441MHz

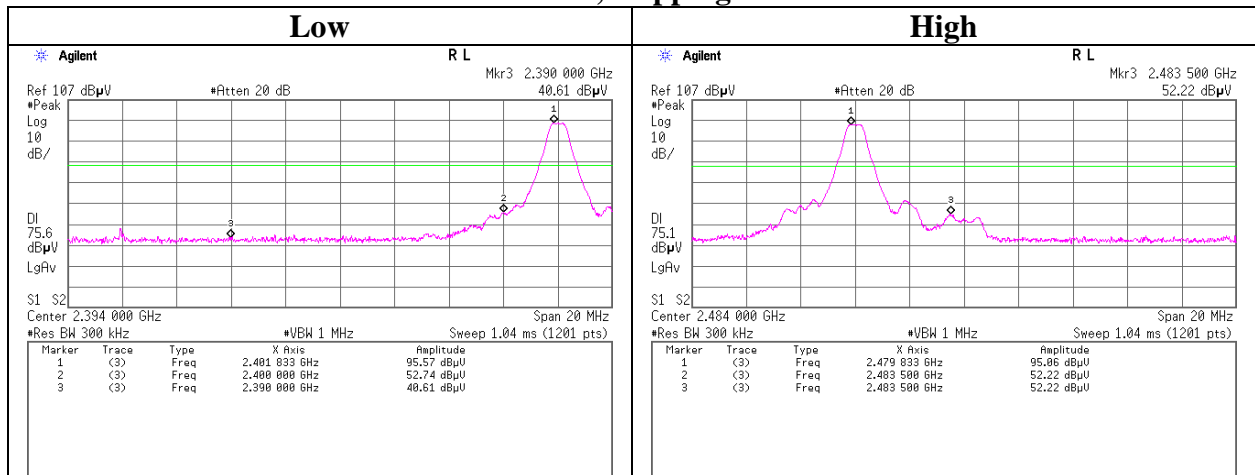


Conducted Emission Band Edge compliance

Tx DH5, Hopping on

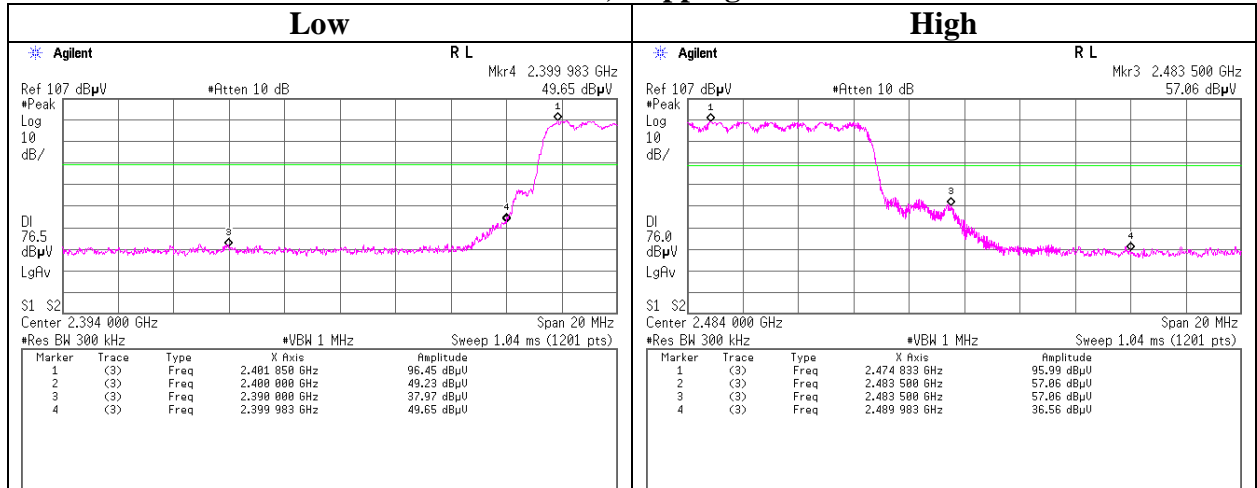


Tx DH5, Hopping off

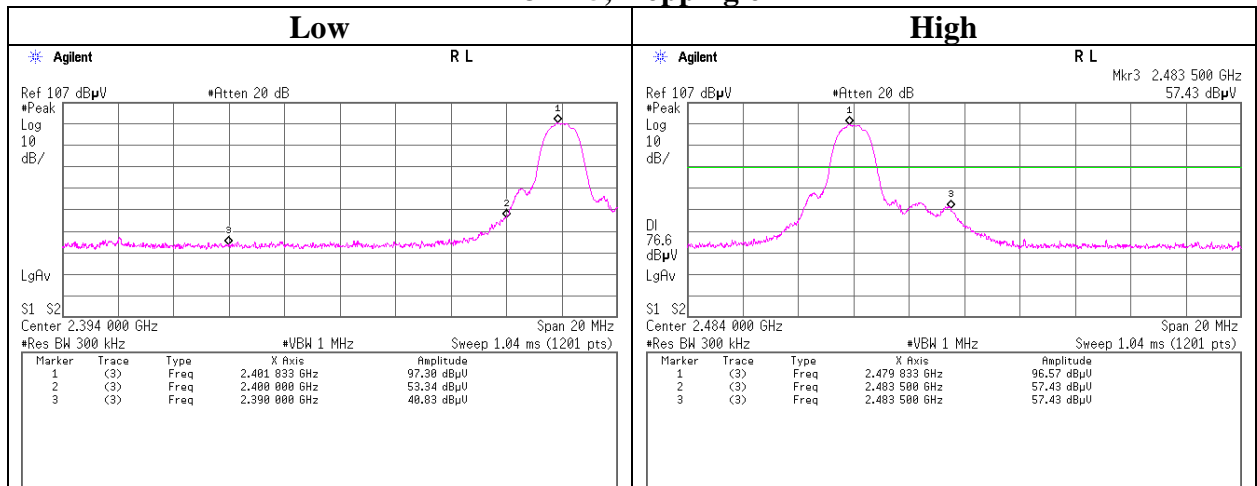


Conducted Emission Band Edge compliance

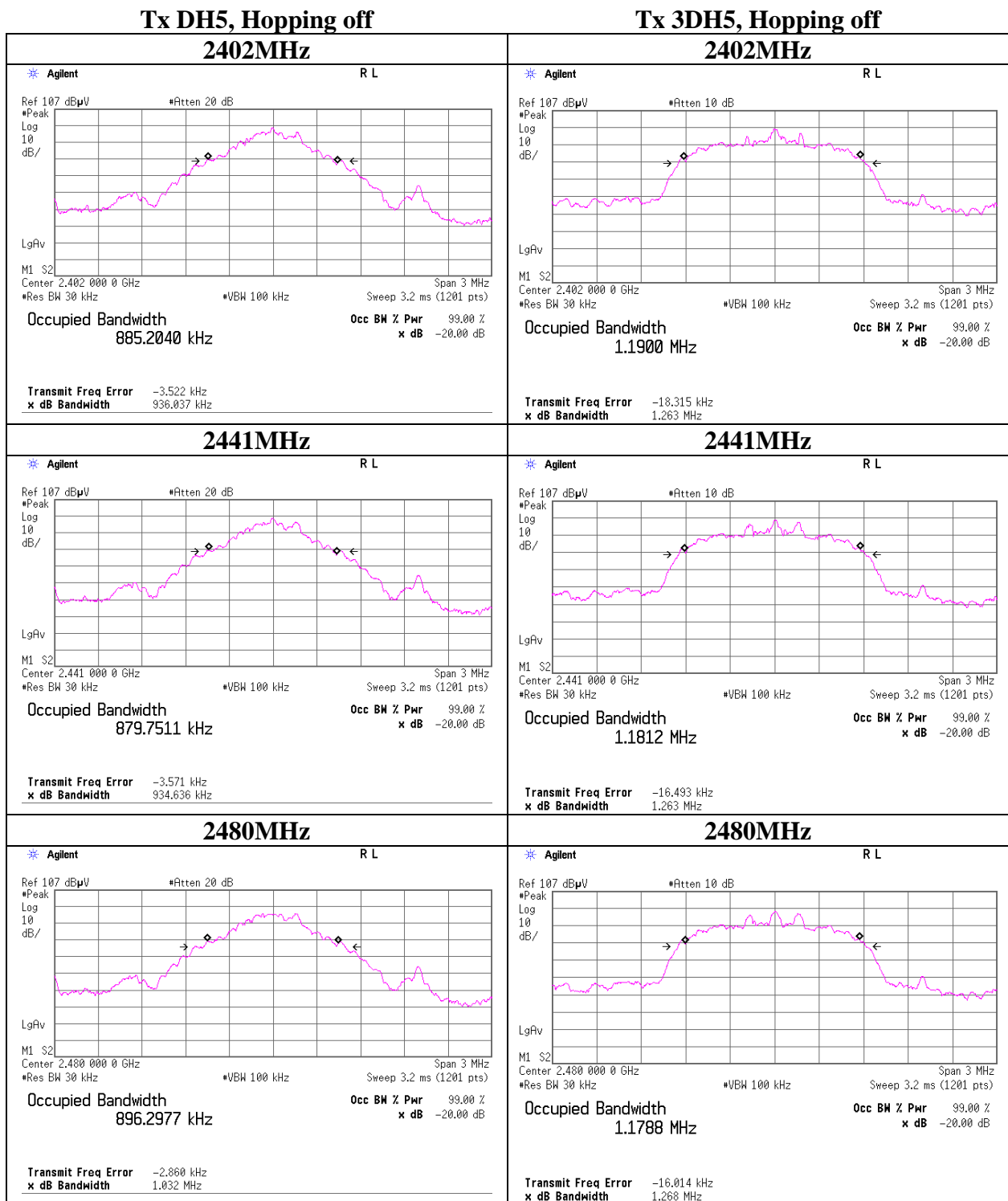
Tx 3DH5, Hopping on



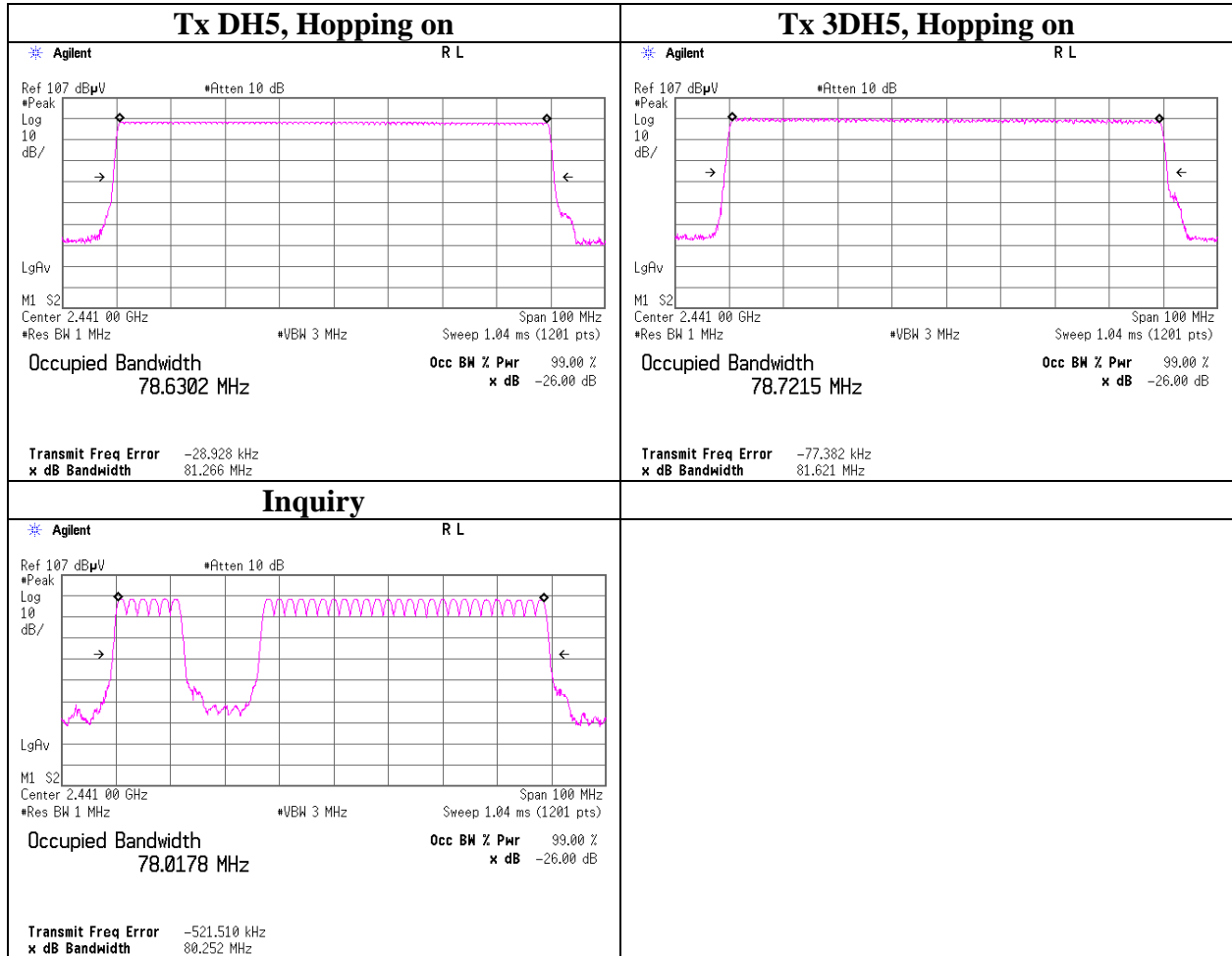
Tx 3DH5, Hopping off



99% Occupied Bandwidth



99% Occupied Bandwidth



APPENDIX 3: Test instruments

EMI test equipment (1/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MSA-03	Spectrum Analyzer	Agilent	E4448A	MY44020357	AT/RE	2010/11/30 * 12
MAT-25	Attenuator(10dB)(above1GHz)	Agilent	8493C	71642	AT	2010/06/22 * 12
MCC-116	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	290221/4	AT	2010/08/05 * 12
MPM-03	Power Meter	Rohde & Schwarz	NRVD	100317	AT	2011/04/14 * 12
MPSE-18	Power sensor	Anritsu	MA2411B	0738174	AT	2010/11/01 * 12
MOS-14	Thermo-Hygrometer	Custom	CTH-201	-	AT	2011/02/23 * 12
MAEC-02	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	CE	2010/09/01 * 12
MOS-22	Thermo-Hygrometer	Custom	CTH-201	0003	CE	2011/02/23 * 12
MJM-05	Measure	PROMART	SEN1955	-	CE	-
COTS-MEMI	EMI measurement program	TSJ	TEPTO-DV	-	CE/RE	-
MTR-03	Test Receiver	Rohde & Schwarz	ESCI	100300	CE	2010/04/19 * 12
MLS-06	LISN(AMN)	Schwarzbeck	NSLK8127	8127363	CE(AE)	2011/02/20 * 12
MLS-07	LISN(AMN)	Schwarzbeck	NSLK8127	8127364	CE(EUT)	2011/02/22 * 12
MTA-31	Terminator	TME	CT-01	-	CE	2011/01/05 * 12
MCC-13	Coaxial Cable	Fujikura	3D-2W(12m)/5D-2W(5m)/5D-2W(0.8m)/5D-2W(1m)	-	CE	2011/02/18 * 12
MAT-65	Attenuator(13dB)	JFW Industries, Inc.	50FP-013H2 N	-	CE	2011/02/21 * 12
MAEC-03	Semi Anechoic Chamber(NSA)	TDK	Semi Anechoic Chamber 3m	DA-10005	RE	2011/02/22 * 12
MOS-13	Thermo-Hygrometer	Custom	CTH-180	-	RE	2011/02/23 * 12
MJM-06	Measure	PROMART	SEN1955	-	RE	-
MHA-20	Horn Antenna 1-18GHz	Schwarzbeck	BBHA9120D	258	RE	2010/05/07 * 12
MCC-58	Microwave Cable	Suhner	SUCOFLEX104	246770(1m) / 250655(5m)	RE	2011/03/02 * 12
MPA-11	MicroWave System Amplifier	Agilent	83017A	MY39500779	RE	2011/03/10 * 12
MCC-76	Microwave Cable 1G-26.5GHz	Suhner	SUCOFLEX104	278967/4	RE	2010/12/03 * 12
MHF-19	High Pass Filter 3.5-18.0GHz	TOKIMEC	TF323DCA	602	RE	2010/09/21 * 12
MSA-09	Spectrum Analyzer	Advantest	R3273	95090115	RE	2010/11/18 * 12

**The expiration date of the calibration is the end of the expired month.
All equipment is calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.**

EMI test equipment (2/2)

Control No.	Instrument	Manufacturer	Model No	Serial No	Test Item	Calibration Date * Interval(month)
MTR-08	Test Receiver	Rohde & Schwarz	ESCI	100767	RE	2010/08/23 * 12
MBA-03	Biconical Antenna	Schwarzbeck	BBA9106	1915	RE	2010/10/11 * 12
MLA-03	Logperiodic Antenna	Schwarzbeck	USLP9143	174	RE	2010/10/11 * 12
MCC-51	Coaxial cable	UL Japan	-	-	RE	2010/07/06 * 12
MAT-09	Attenuator(6dB)	Weinschel Corp	2	BK7973	RE	2010/11/05 * 12
MPA-13	Pre Amplifier	SONOMA INSTRUMENT	310	260834	RE	2011/03/04 * 12
MSA-10	Spectrum Analyzer	Agilent	E4448A	MY46180655	RE/AT	2011/02/15 * 12
MHA-16	Horn Antenna 15- 40GHz	Schwarzbeck	BBHA9170	BBHA917030 6	RE	2010/05/07 * 12
MCC-67	Microwave Cable 1G- 40GHz	Suhner	SUCOFLEX102	28635/2	AT	2010/04/28 * 12
MAT-20	Attenuator(10dB)(abo ve 1GHz)	HIROSE ELECTRIC CO.,LTD.	AT-110	-	AT	2011/01/06 * 12
MPM-09	Power Meter	Anritsu	ML2495A	6K00003348	AT	2010/09/10 * 12
MPSE-12	Power sensor	Anritsu	MA2411B	011598	AT	2010/09/10 * 12

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

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

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

Test Item: CE: Conducted Emission

RE: Radiated Emission

AT: Antenna Terminal Conducted test

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