
APPENDIX 2: Data of EMI test

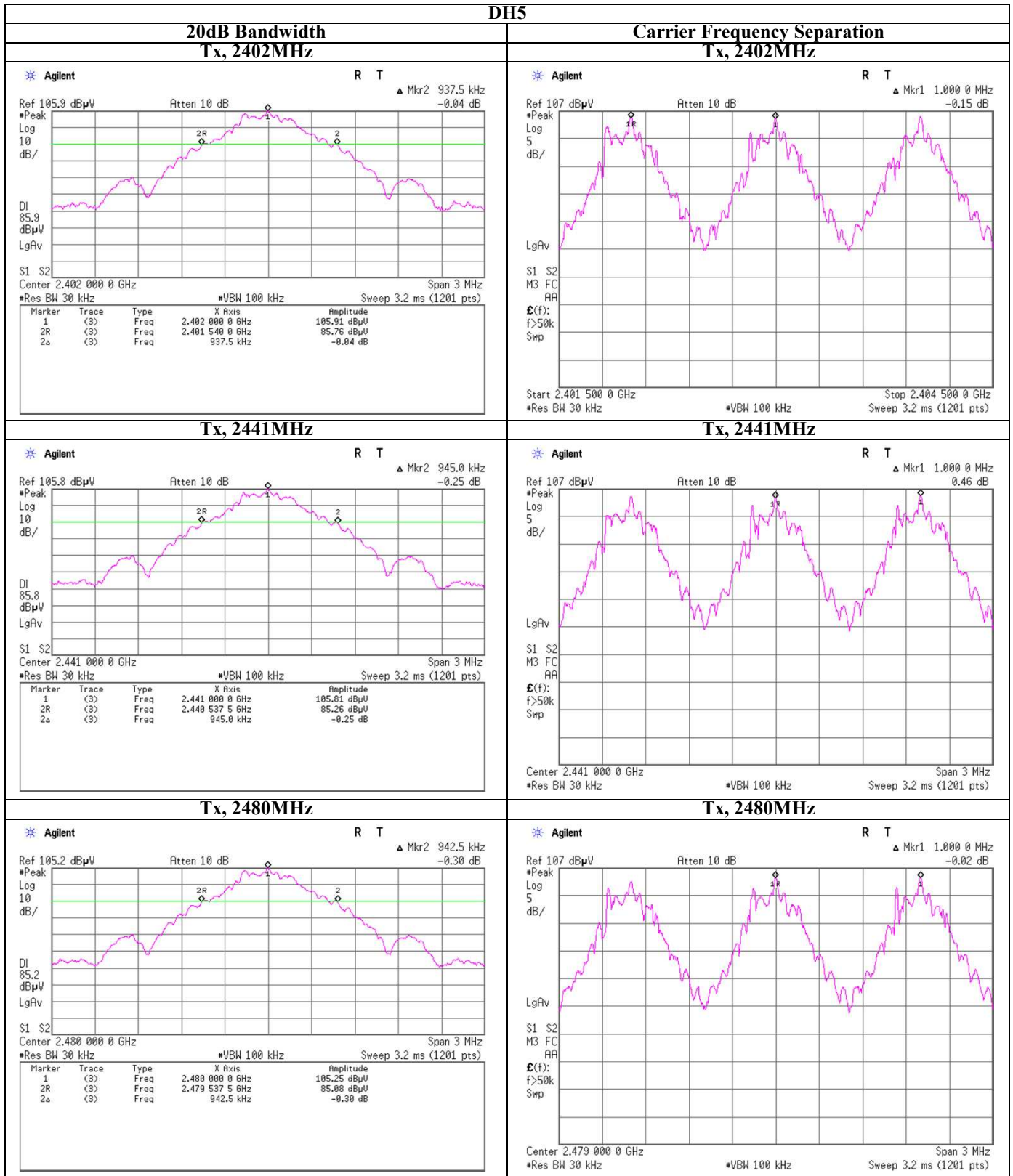
20dB Bandwidth and Carrier Frequency Separation

Test place UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date 2010/10/27
Temperature / Humidity 22deg.C. , 44%
Engineer Akio Hayashi
Mode Tx

Mode	Freq. [MHz]	20dB Bandwidth [MHz]	Carrier Frequency Separation [MHz]	Limit for Carrier Frequency Separation [MHz]
DH5	2402.0	0.938	1.000	>= 0.625
DH5	2441.0	0.945	1.000	>= 0.630
DH5	2480.0	0.943	1.000	>= 0.628
3DH5	2402.0	1.285	1.000	>= 0.857
3DH5	2441.0	1.285	1.000	>= 0.857
3DH5	2480.0	1.285	1.000	>= 0.857
Inquiry	2441.0	0.921	2.000	>= 0.614

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

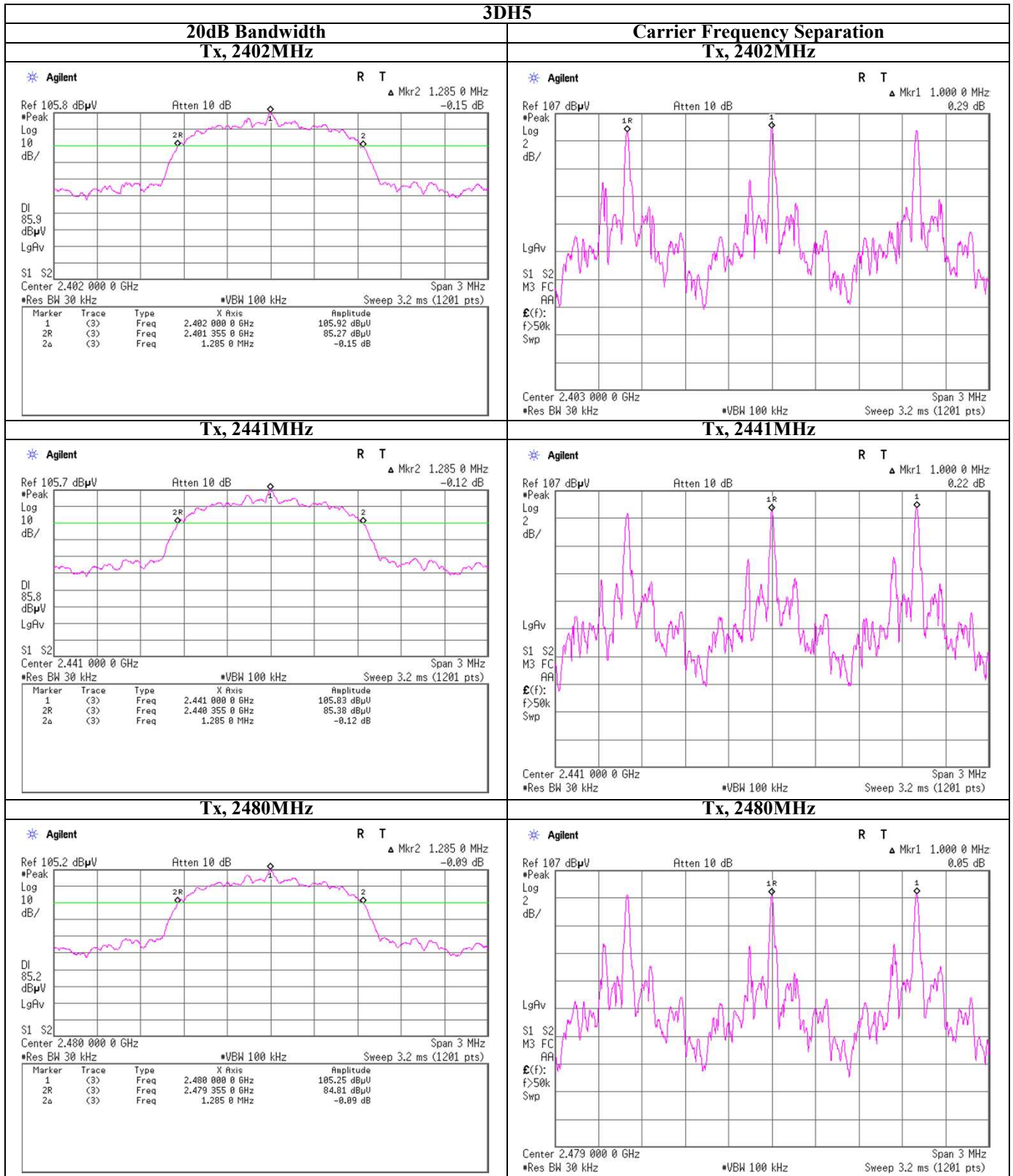
20dB Bandwidth and Carrier Frequency Separation



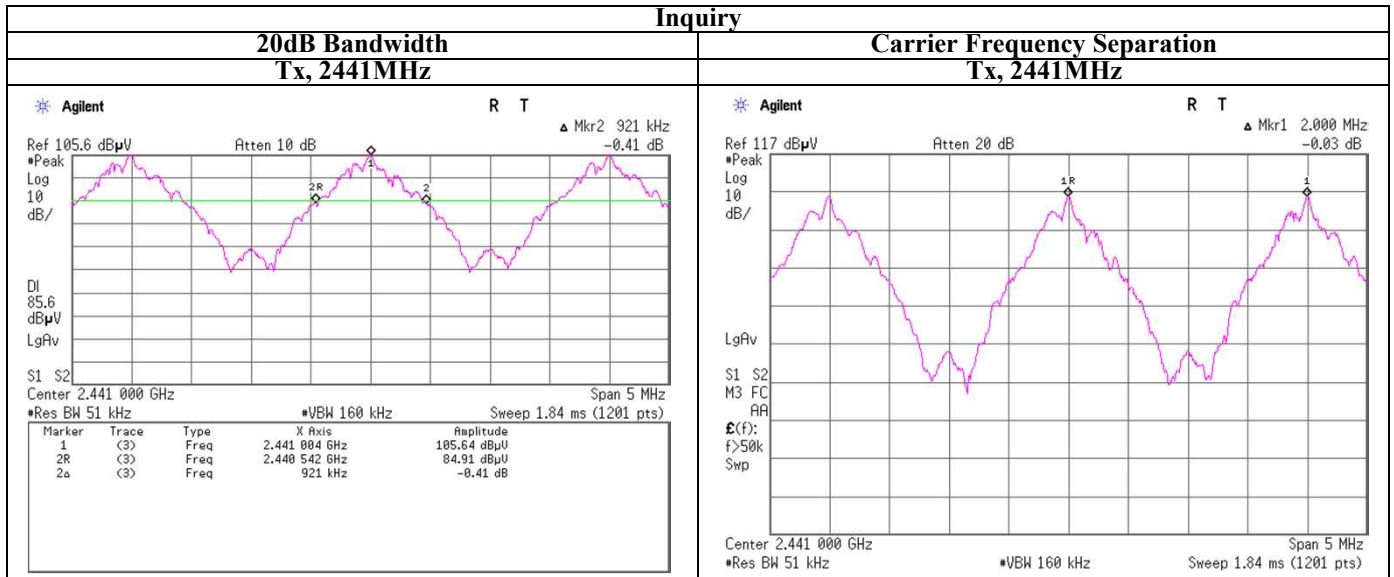
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20dB Bandwidth and Carrier Frequency Separation



20dB Bandwidth and Carrier Frequency Separation



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Number of Hopping Frequency (Conducted)

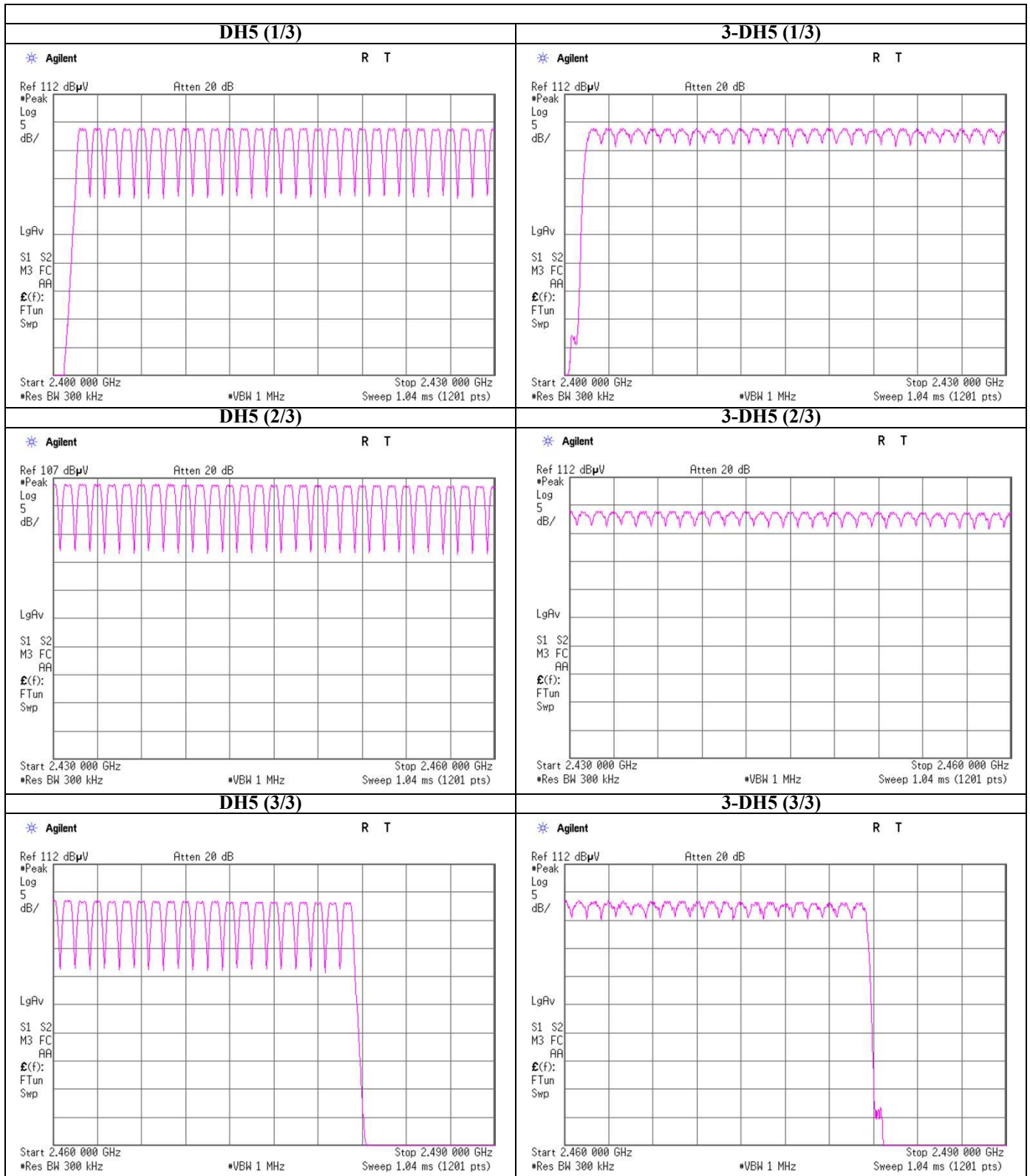
Test place UL Japan, Inc. Shonan EMC Lab. No.3 Shielded Room
Date 2010/10/27
Temperature / Humidity 22deg.C. , 44%
Engineer Akio Hayashi
Mode Tx

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

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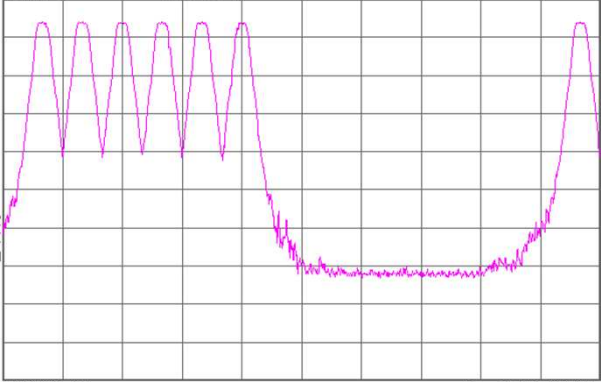
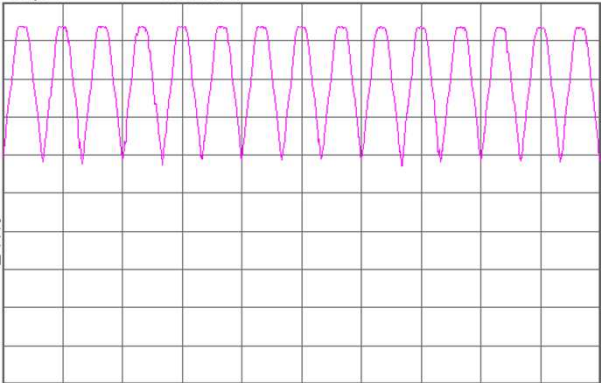
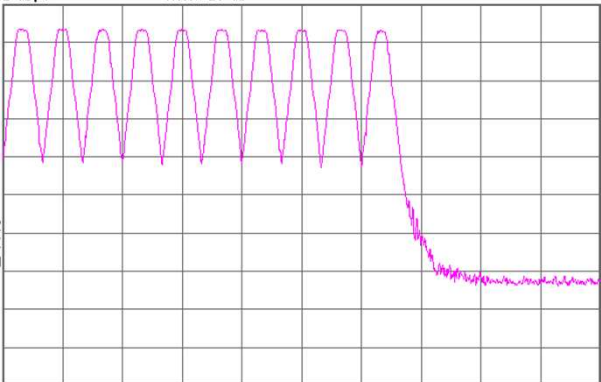
Number of Hopping Frequency



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Number of Hopping Frequency

Inquiry (1/3) Agilent R T Ref 112 dBμV Atten 20 dB Peak Log 10 dB/ LgAv S1 S2 M3 FC AR Σ(f): FTun Swp Start 2.400 000 GHz Stop 2.430 000 GHz *Res BW 300 kHz *VBW 1 MHz Sweep 1.04 ms (1201 pts) 	
Inquiry (2/3) Agilent R T Ref 112 dBμV Atten 20 dB Peak Log 10 dB/ LgAv S1 S2 M3 FC AR Σ(f): FTun Swp Start 2.430 000 GHz Stop 2.460 000 GHz *Res BW 300 kHz *VBW 1 MHz Sweep 1.04 ms (1201 pts) 	
Inquiry (3/3) Agilent R T Ref 112 dBμV Atten 20 dB Peak Log 10 dB/ LgAv S1 S2 M3 FC AR Σ(f): FTun Swp Start 2.460 000 GHz Stop 2.490 000 GHz *Res BW 300 kHz *VBW 1 MHz Sweep 1.04 ms (1201 pts) 	

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Dwell Time (Conducted)

Test place UL Japan, Inc. Shonan EMC Lab. No.5 Shielded Room
 Date 2010/12/8
 Temperature / Humidity 21deg.C. , 41%
 Engineer Akio Hayashi
 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	48.2 times / 5 sec. x 31.6 sec. = 305 times	0.456	139	400
DH3	27.4 times / 5 sec. x 31.6 sec. = 174 times	1.717	299	400
DH5	18.6 times / 5 sec. x 31.6 sec. = 118 times	2.965	350	400
3DH1	50.4 times / 5 sec. x 31.6 sec. = 319 times	0.452	144	400
3DH3	26.0 times / 5 sec. x 31.6 sec. = 165 times	1.707	282	400
3DH5	19.2 times / 5 sec. x 31.6 sec. = 122 times	2.955	361	400
Inquiry	100.0 times / 1 sec. x 12.8 sec. = 1280 times	0.145	186	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	47	47	47	48	52	48.2
DH3	26	24	27	30	30	27.4
DH5	20	17	18	17	21	18.6
3DH1	51	51	50	50	50	50.4
3DH3	25	24	30	25	26	26
3DH5	19	19	18	19	21	19.2

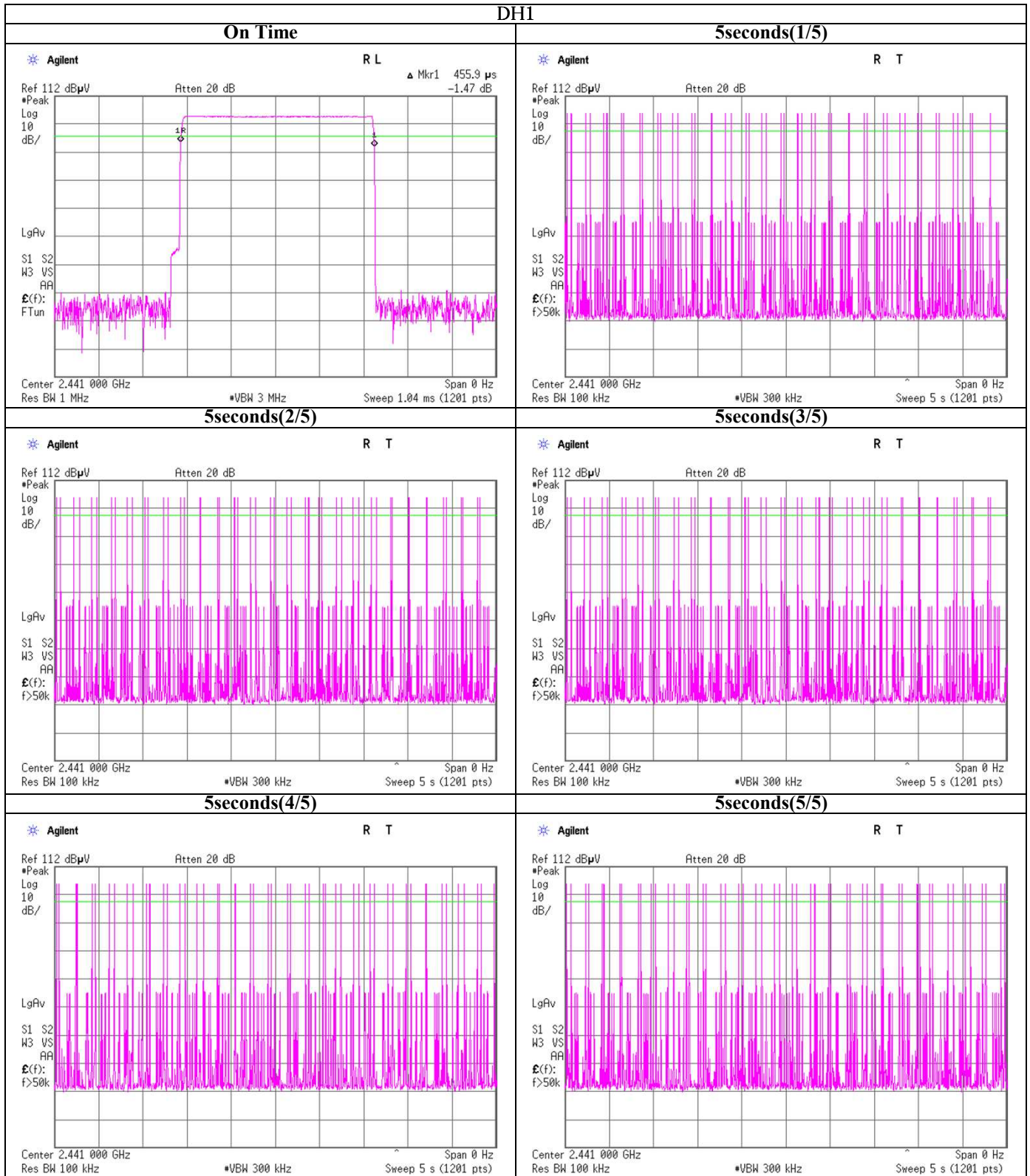
Sample Calculation

Average= Summation(Sampling 1 to 5) / 5

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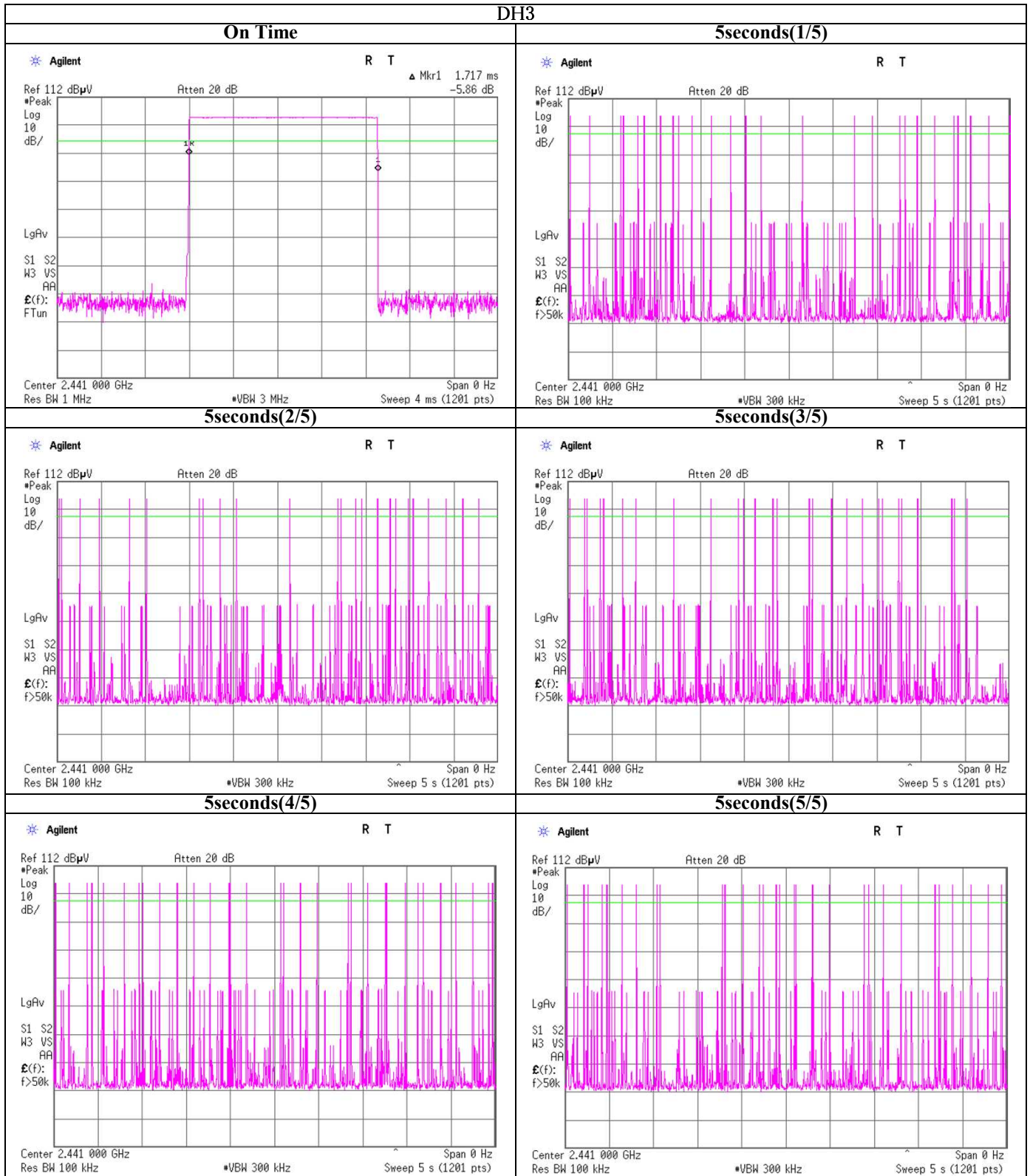
Dwell time



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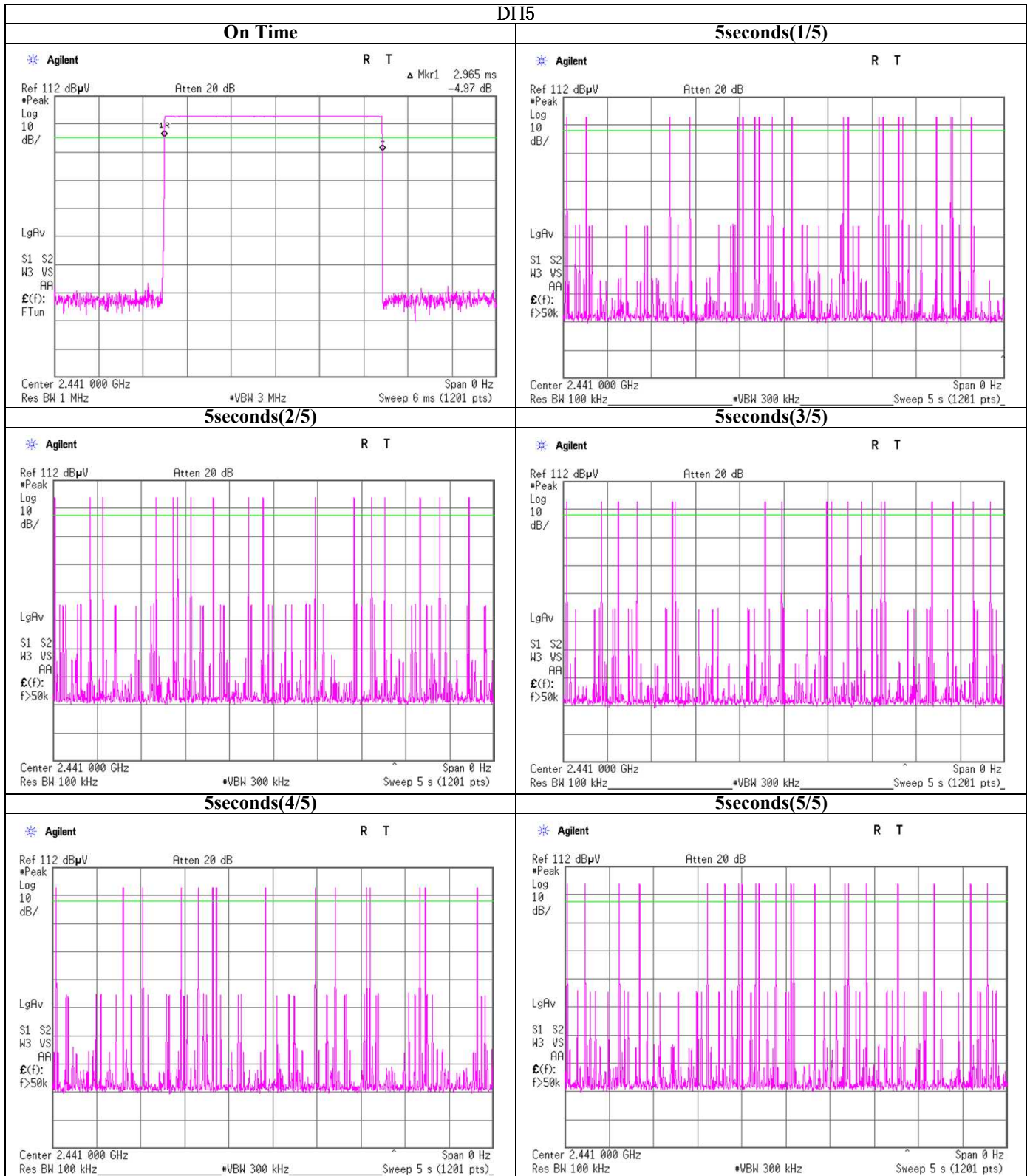
Dwell time



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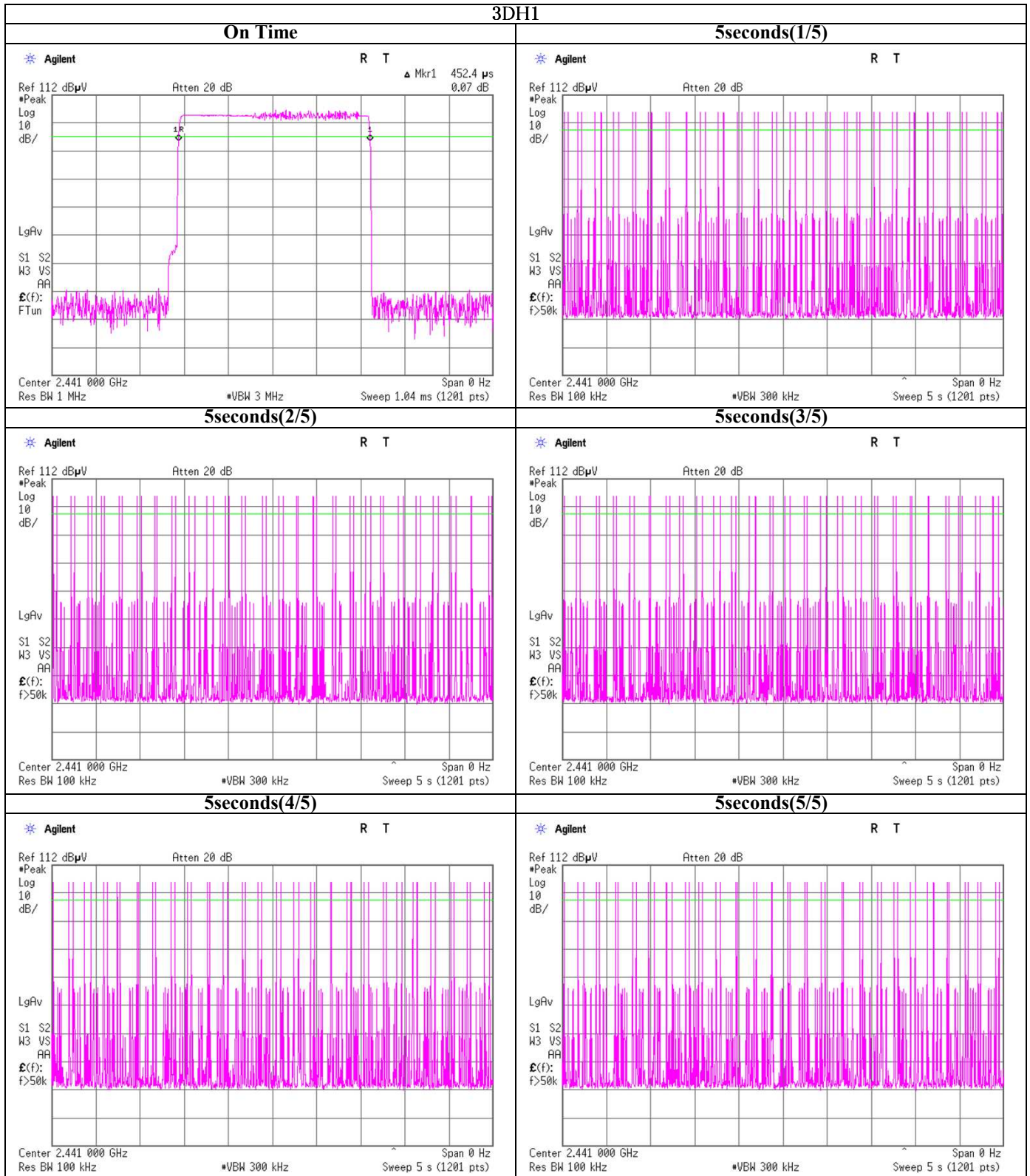
Dwell time



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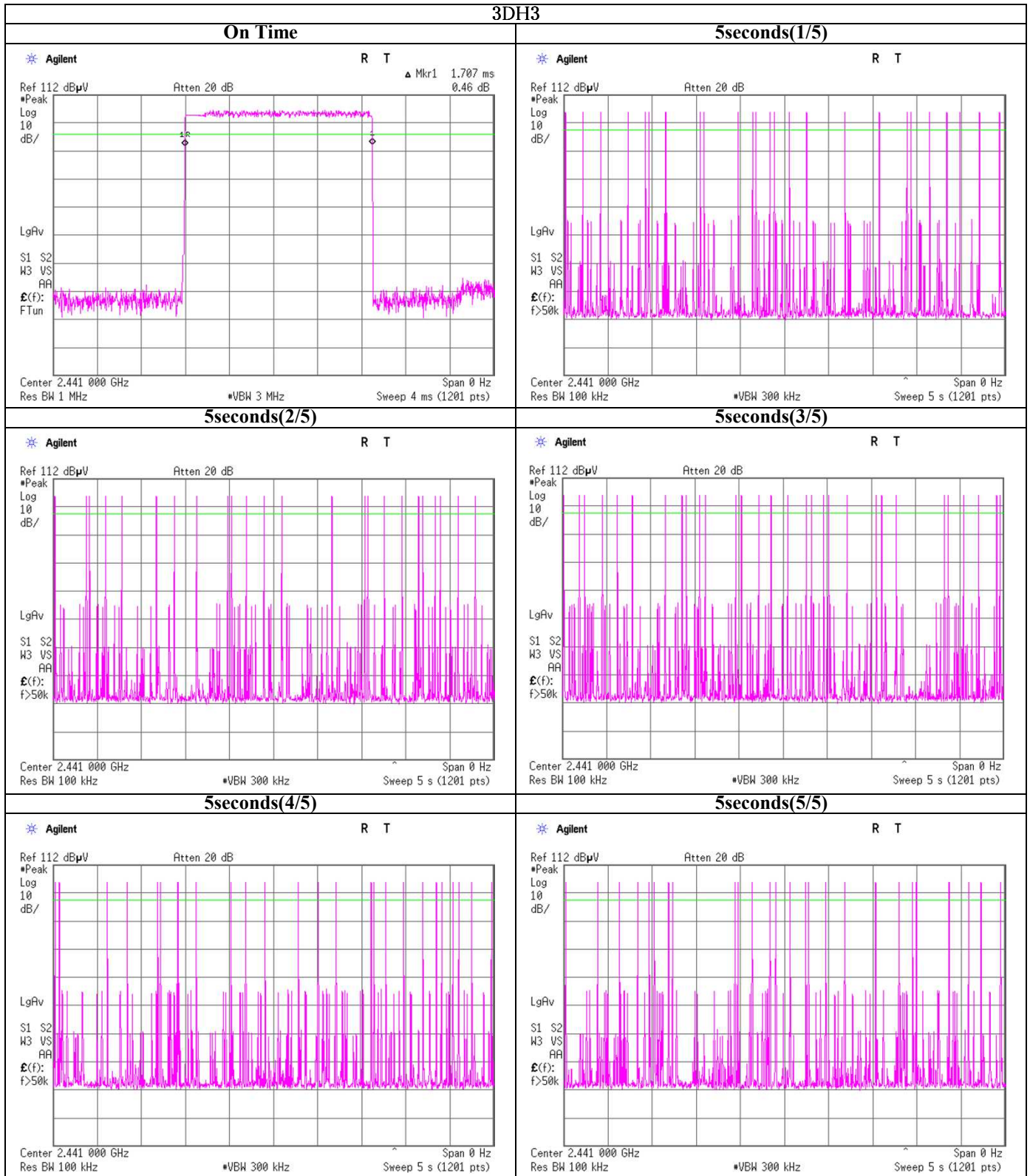
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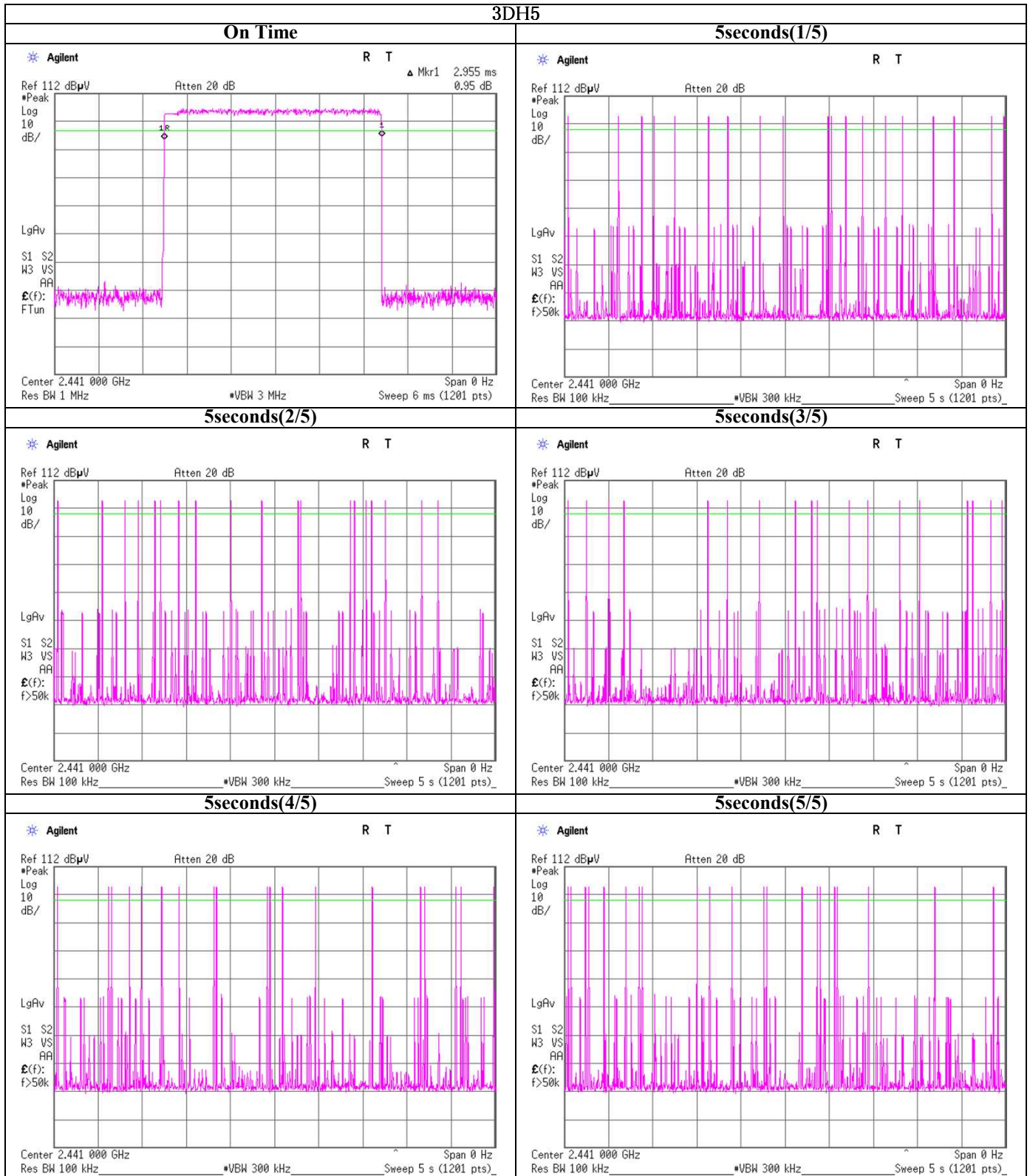
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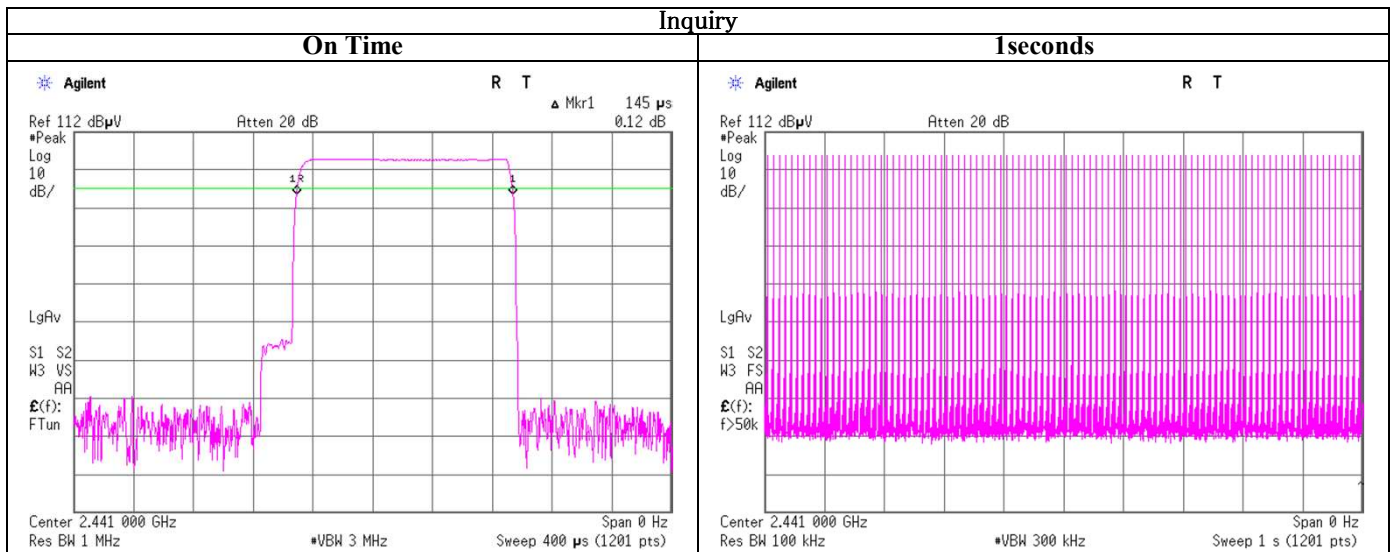
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