Appendix IV) LTE Band 17 Test data

Appendix A): Conducted Output Power and Effective (Isotropic) Radiated Power

Description of the Conducted Output Power Measurement and ERP/EIRP Measurement:	A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported. According to KDB 412172 D01 Power Approach EIRP = P_T + G_T – L_C, ERP = EIRP - 2.15, where P_T = transmitter output power in dBm G_T = gain of the transmitting antenna in dBi L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB
Measurement Procedure:	1. The transmitter output port was connected to the system simulator. 2. Set EUT at maximum power through the system simulator. 3. Select lowest, middle, and highest channels for each band and different modulation. 4. Measure and record the power level from the system simulator.
Limit:	Mode: LTE band 17 Limit: 34.77dBm（3W）

Test Result

$G_T - L_C$= -6.74dB

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm]	ERP [dBm]	Verdict
		Size	Offset			
QPSK	LCH	1	0	23.74	17	PASS
		1	12	23.57	16.83	PASS
		1	24	23.37	16.63	PASS
		12	0	22.55	15.81	PASS
		12	6	22.62	15.88	PASS
		12	13	22.37	15.63	PASS
		25	0	22.45	15.71	PASS
	MCH	1	0	23.51	16.77	PASS
		1	12	23.42	16.68	PASS
		1	24	23.50	16.76	PASS
		12	0	22.29	15.55	PASS
		12	6	22.26	15.52	PASS
		12	13	22.48	15.74	PASS
		25	0	22.32	15.58	PASS
	HCH	1	0	23.46	16.72	PASS
		1	12	23.27	16.53	PASS
		1	24	23.11	16.37	PASS
		12	0	22.47	15.73	PASS
		12	6	22.44	15.7	PASS
		12	13	22.26	15.52	PASS
		25	0	22.26	15.52	PASS
16QAM	LCH	1	0	22.67	15.93	PASS
		1	12	22.29	15.55	PASS
		1	24	22.35	15.61	PASS
		12	0	22.53	15.79	PASS
		12	6	22.42	15.68	PASS
		12	13	22.21	15.47	PASS
		25	0	21.45	14.71	PASS
	MCH	1	0	22.33	15.59	PASS
		1	12	22.26	15.52	PASS
		1	24	22.56	15.82	PASS
		12	0	22.28	15.54	PASS
		12	6	22.26	15.52	PASS

		12	13	22.45	15.71	PASS
		25	0	21.29	14.55	PASS
	HCH	1	0	22.35	15.61	PASS
		1	12	22.28	15.54	PASS
		1	24	21.97	15.23	PASS
		12	0	22.44	15.7	PASS
		12	6	22.43	15.69	PASS
		12	13	22.23	15.49	PASS
		25	0	21.20	14.46	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Average Power [dBm]	ERP [dBm]	Verdict
		Size	Offset			
QPSK	LCH	1	0	23.33	16.59	PASS
		1	24	23.13	16.39	PASS
		1	49	23.28	16.54	PASS
		25	0	22.29	15.55	PASS
		25	12	22.27	15.53	PASS
		25	25	22.31	15.57	PASS
		50	0	22.25	15.51	PASS
	MCH	1	0	23.33	16.59	PASS
		1	24	23.20	16.46	PASS
		1	49	23.33	16.59	PASS
		25	0	22.25	15.51	PASS
		25	12	22.23	15.49	PASS
		25	25	22.27	15.53	PASS
		50	0	22.17	15.43	PASS
	HCH	1	0	23.15	16.41	PASS
		1	24	23.20	16.46	PASS
		1	49	23.33	16.59	PASS
		25	0	22.23	15.49	PASS
		25	12	22.27	15.53	PASS
		25	25	22.32	15.58	PASS
		50	0	22.12	15.38	PASS
16QAM	LCH	1	0	22.65	15.91	PASS
		1	24	22.29	15.55	PASS
		1	49	22.30	15.56	PASS
		25	0	22.35	15.61	PASS
		25	12	22.33	15.59	PASS

		25	25	22.39	15.65	PASS
		50	0	21.14	14.4	PASS
	MCH	1	0	22.53	15.79	PASS
		1	24	22.31	15.57	PASS
		1	49	22.36	15.62	PASS
		25	0	22.29	15.55	PASS
		25	12	22.24	15.5	PASS
		25	25	22.36	15.62	PASS
		50	0	21.16	14.42	PASS
	HCH	1	0	22.25	15.51	PASS
		1	24	22.38	15.64	PASS
		1	49	21.95	15.21	PASS
		25	0	22.24	15.5	PASS
		25	12	22.21	15.47	PASS
		25	25	22.27	15.53	PASS
		50	0	21.01	14.27	PASS

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	5.24	<13	PASS
		1	12	8.43	<13	PASS
		1	24	4.07	<13	PASS
		12	0	5.18	<13	PASS
		12	6	5.25	<13	PASS
		12	13	4.8	<13	PASS
		25	0	5.49	<13	PASS
	MCH	1	0	8.45	<13	PASS
		1	12	3.58	<13	PASS
		1	24	5.08	<13	PASS
		12	0	4.85	<13	PASS
		12	6	4.83	<13	PASS
		12	13	8.43	<13	PASS
		25	0	5.11	<13	PASS
	HCH	1	0	4.17	<13	PASS
		1	12	5.91	<13	PASS
		1	24	4.84	<13	PASS
		12	0	5.44	<13	PASS
		12	6	5.41	<13	PASS
		12	13	5.46	<13	PASS
		25	0	5.76	<13	PASS
16QAM	LCH	1	0	5.82	<13	PASS
		1	12	4.89	<13	PASS
		1	24	5.02	<13	PASS
		12	0	5.2	<13	PASS
		12	6	5.13	<13	PASS
		12	13	4.81	<13	PASS
		25	0	6.16	<13	PASS
	MCH	1	0	5.08	<13	PASS
		1	12	4.6	<13	PASS
		1	24	7.14	<13	PASS
		12	0	4.85	<13	PASS

		12	6	4.83	<13	PASS
		12	13	4.64	<13	PASS
		25	0	5.87	<13	PASS
	HCH	1	0	4.93	<13	PASS
		1	12	6.13	<13	PASS
		1	24	5.45	<13	PASS
		12	0	5.42	<13	PASS
		12	6	8.42	<13	PASS
		12	13	5.52	<13	PASS
		25	0	6.49	<13	PASS

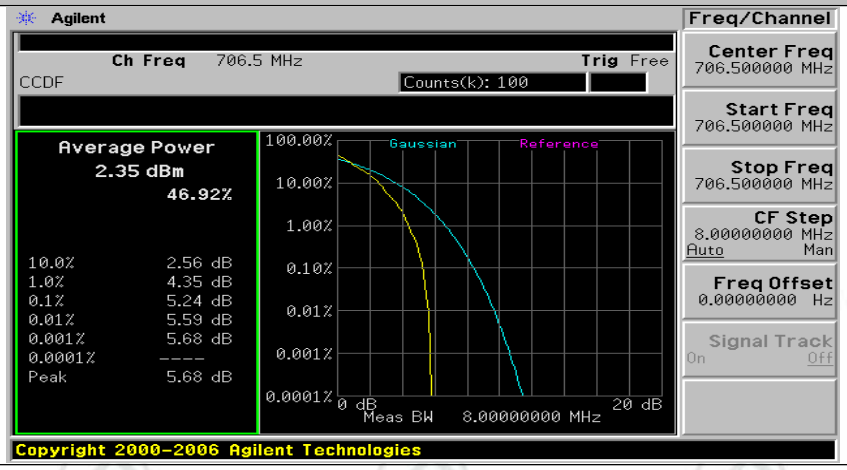
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	LCH	1	0	4.83	<13	PASS
		1	24	3.9	<13	PASS
		1	49	5.4	<13	PASS
		25	0	4.97	<13	PASS
		25	12	5.01	<13	PASS
		25	25	4.35	<13	PASS
		50	0	5.19	<13	PASS
	MCH	1	0	4.32	<13	PASS
		1	24	3.67	<13	PASS
		1	49	5.12	<13	PASS
		25	0	4.97	<13	PASS
		25	12	4.95	<13	PASS
		25	25	4.45	<13	PASS
		50	0	4.92	<13	PASS
	HCH	1	0	4.14	<13	PASS
		1	24	3.95	<13	PASS
		1	49	4.74	<13	PASS
		25	0	4.83	<13	PASS
		25	12	4.79	<13	PASS
		25	25	5.18	<13	PASS
		50	0	7.43	<13	PASS
16QAM	LCH	1	0	5.83	<13	PASS
		1	24	8.7	<13	PASS
		1	49	6.42	<13	PASS

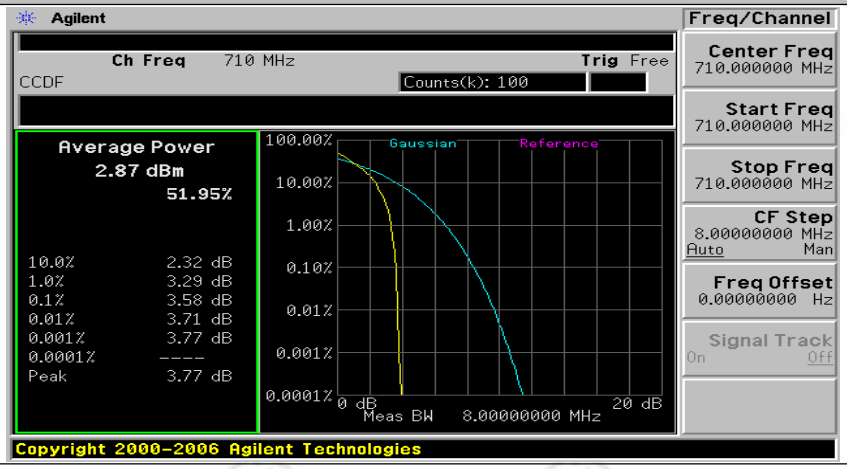
		25	0	4.97	<13	PASS
		25	12	4.94	<13	PASS
		25	25	8.46	<13	PASS
		50	0	6.35	<13	PASS
	MCH	1	0	5.19	<13	PASS
		1	24	4.72	<13	PASS
		1	49	6.86	<13	PASS
		25	0	4.96	<13	PASS
		25	12	8.4	<13	PASS
		25	25	4.44	<13	PASS
		50	0	6.13	<13	PASS
	HCH	1	0	8.36	<13	PASS
		1	24	4.68	<13	PASS
		1	49	5.45	<13	PASS
		25	0	4.79	<13	PASS
		25	12	4.79	<13	PASS
		25	25	5.19	<13	PASS
		50	0	5.89	<13	PASS

Test Graphs
Channel Bandwidth: 5 MHz

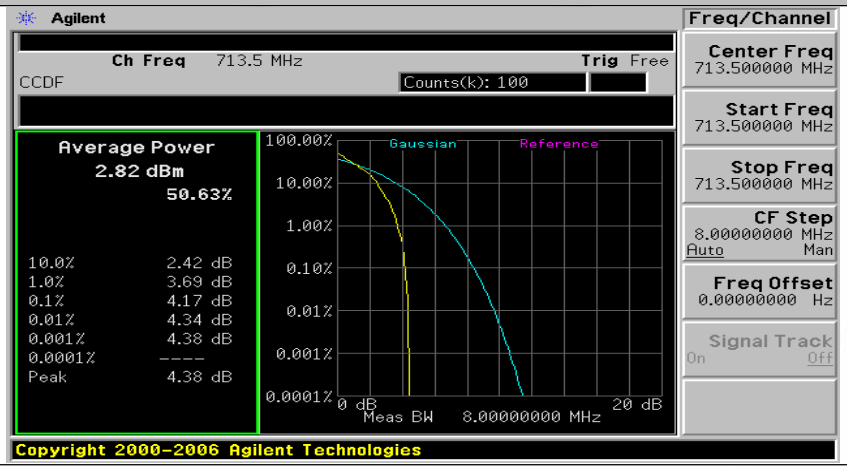
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

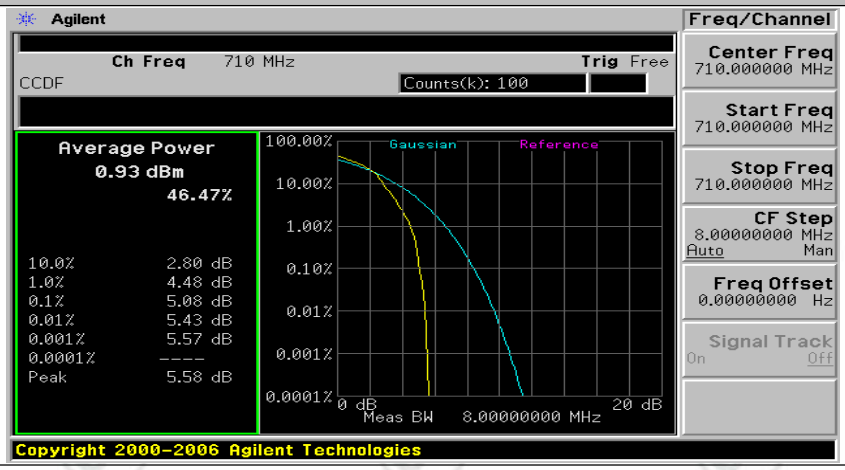


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

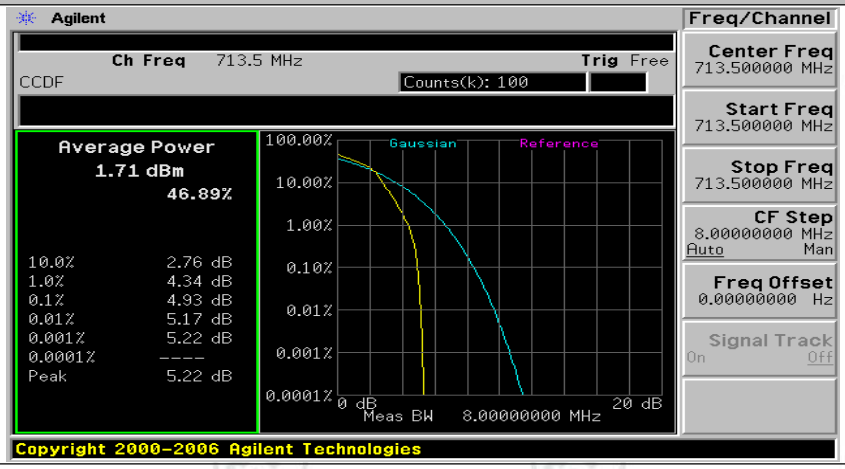


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

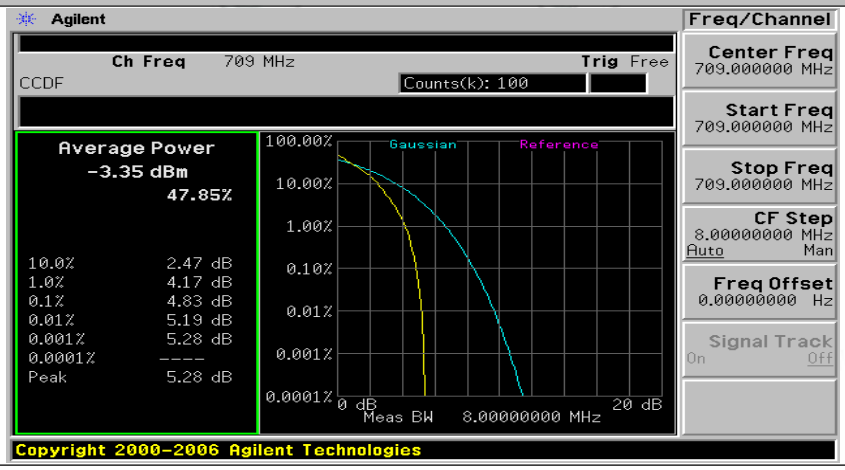


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

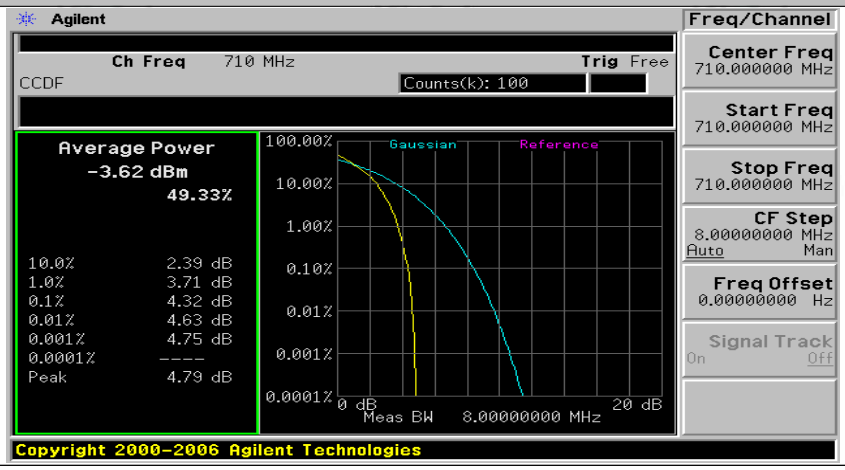


Channel Bandwidth: 10 MHz

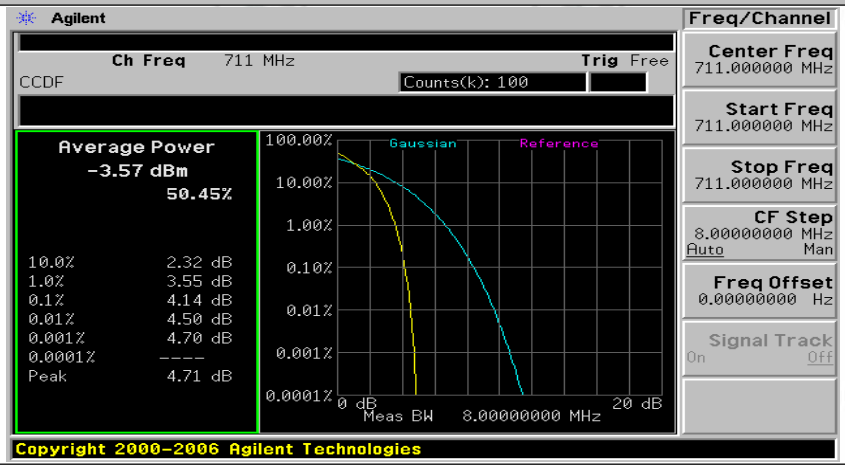
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

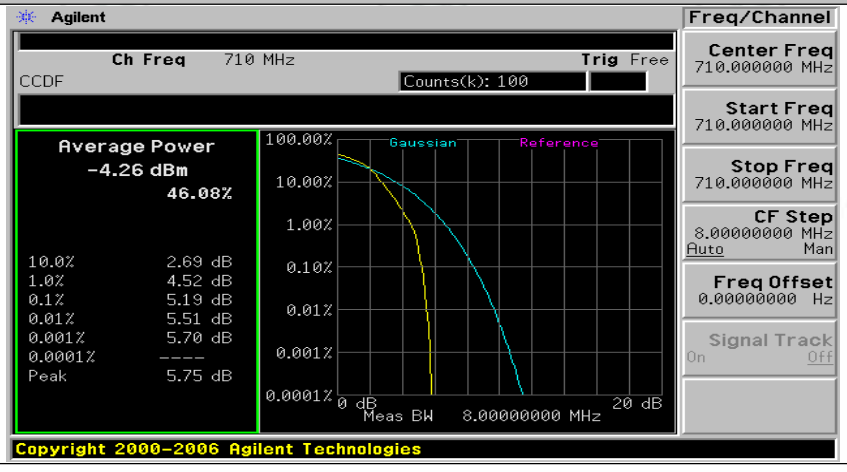


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

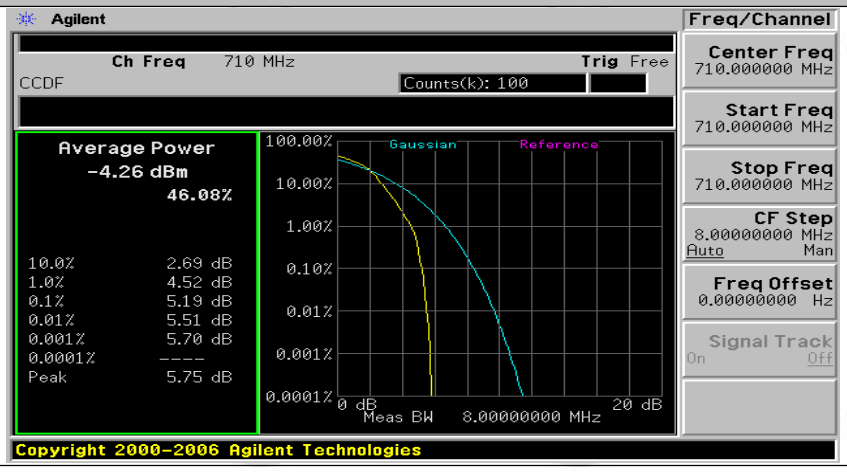


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 5 MHz

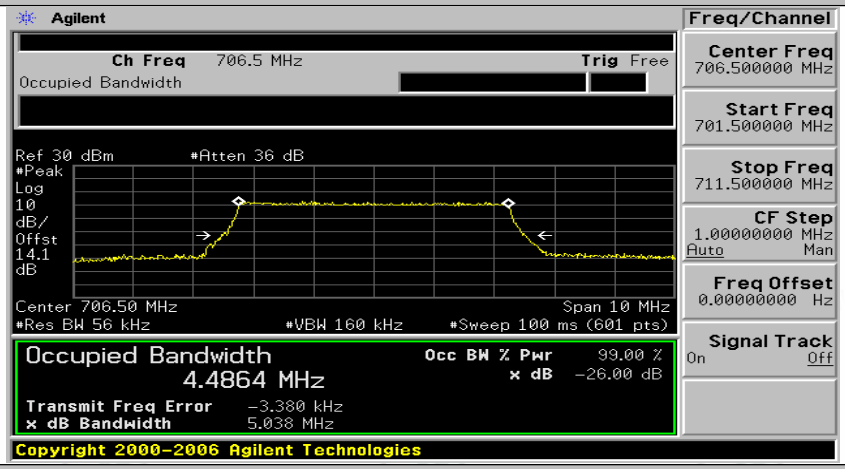
Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4864	5.038	PASS
	MCH	25	0	4.4579	4.992	PASS
	HCH	25	0	4.4769	5.007	PASS
16QAM	LCH	25	0	4.4730	4.921	PASS
	MCH	25	0	4.4685	4.966	PASS
	HCH	25	0	4.4722	4.961	PASS

Channel Bandwidth: 10 MHz

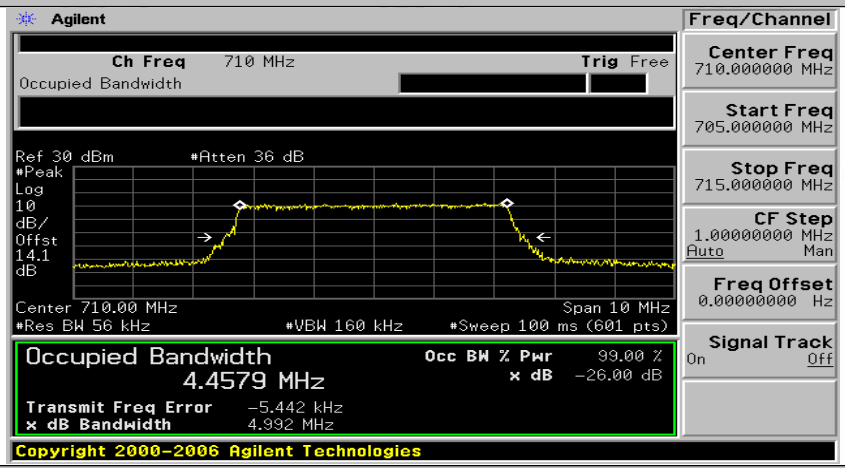
Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	50	0	8.9510	9.730	PASS
	MCH	50	0	8.9247	9.770	PASS
	HCH	50	0	8.9261	9.619	PASS
16QAM	LCH	50	0	8.9473	9.640	PASS
	MCH	50	0	8.9249	9.663	PASS
	HCH	50	0	8.9248	9.622	PASS

Test Graphs
Channel Bandwidth: 5 MHz

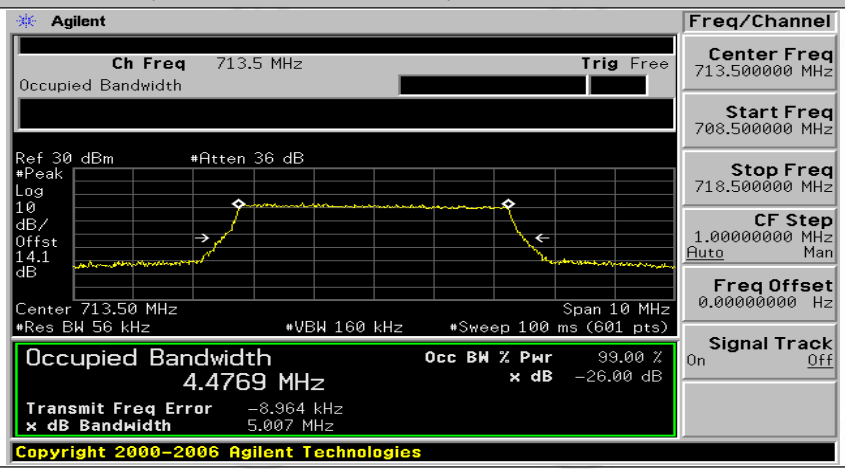
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



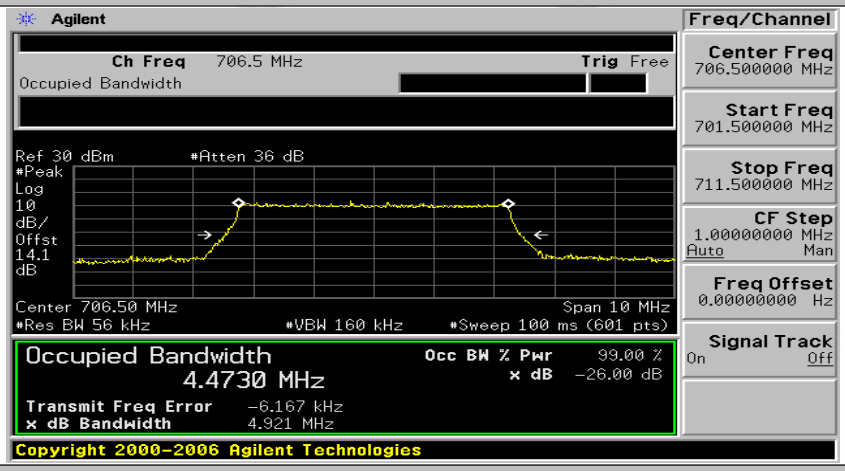
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0



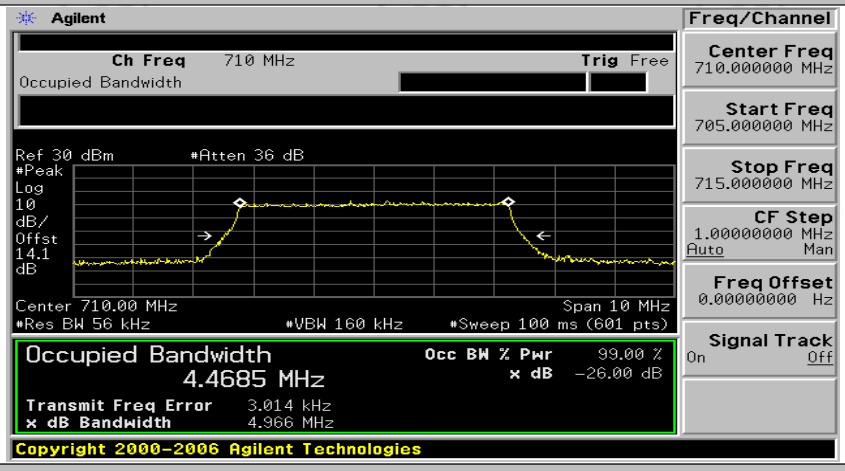
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



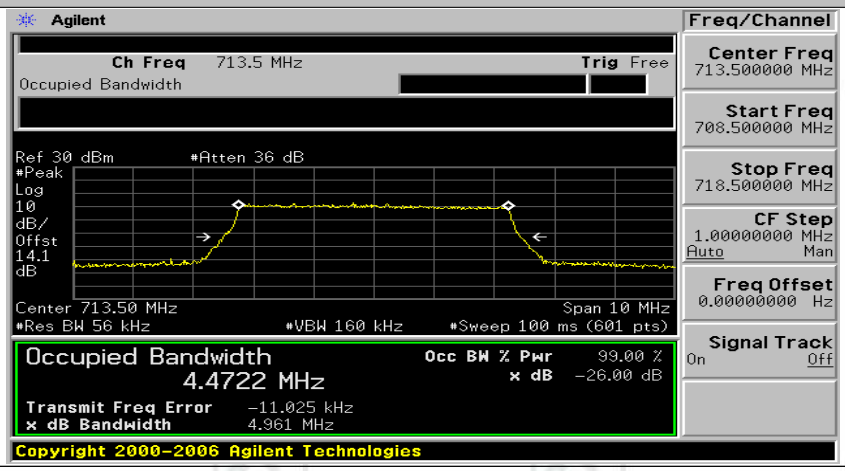
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0

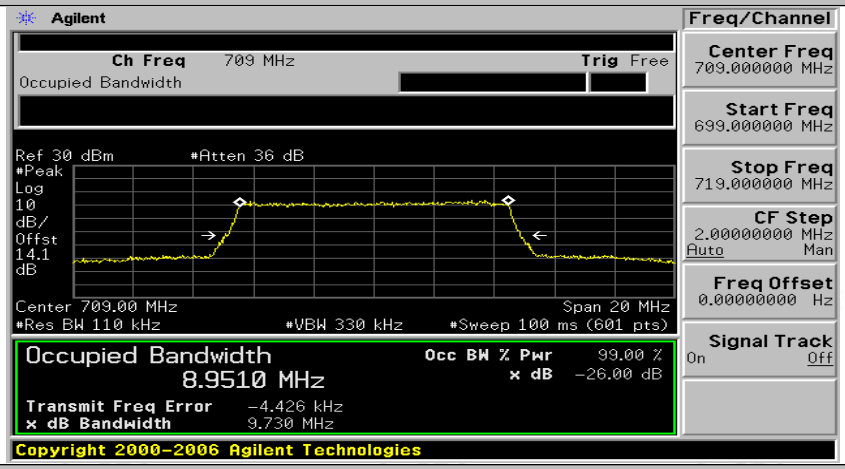


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

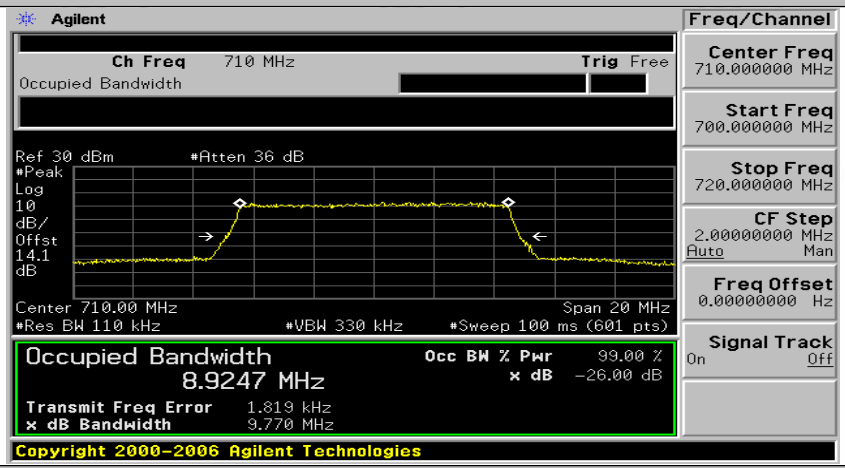


Channel Bandwidth: 10 MHz

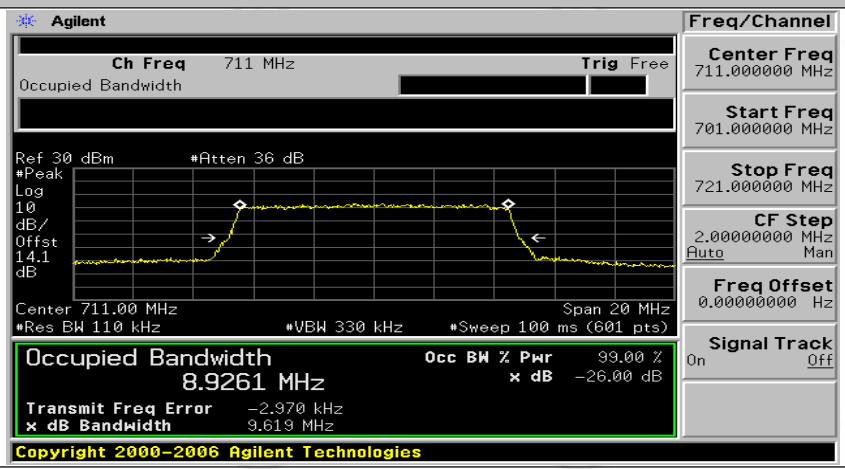
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



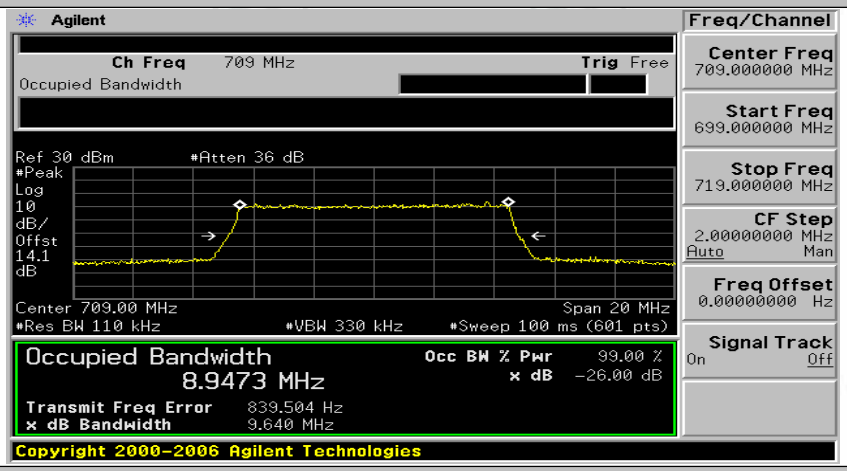
Channel Bandwidth: 10 MHz_MCH_QPSK_50RB#0



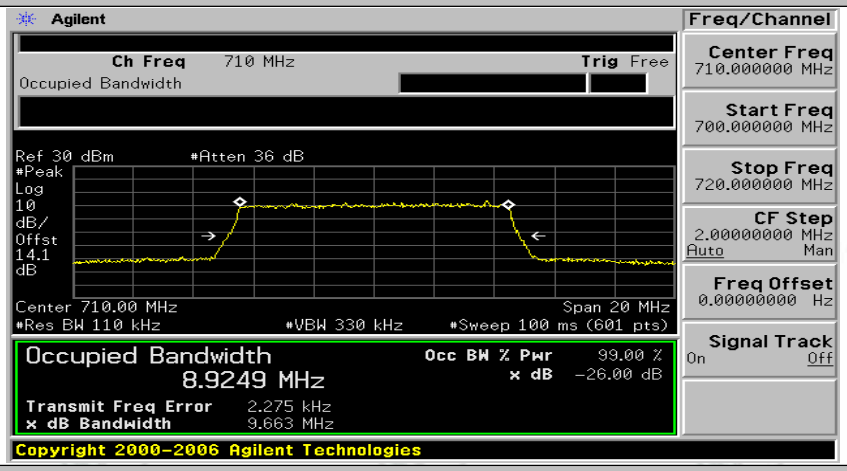
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



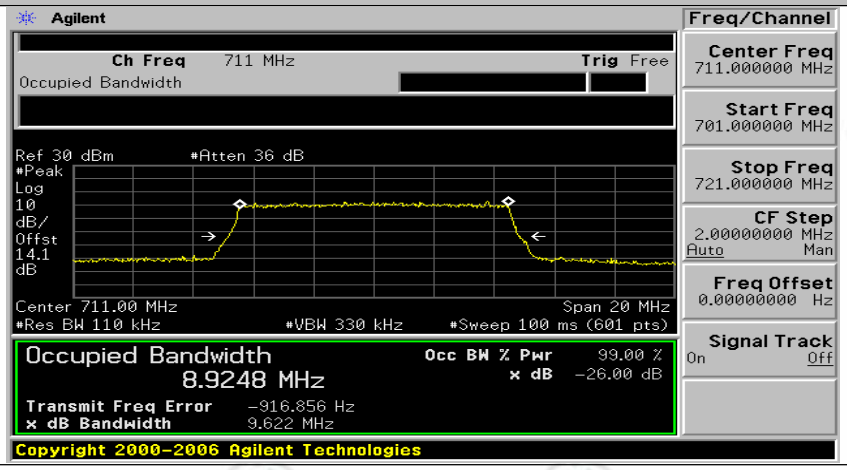
Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_50RB#0



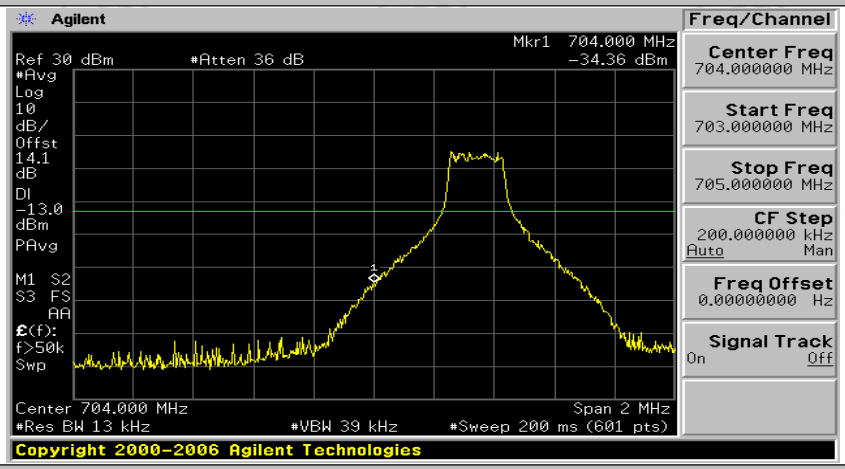
Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0



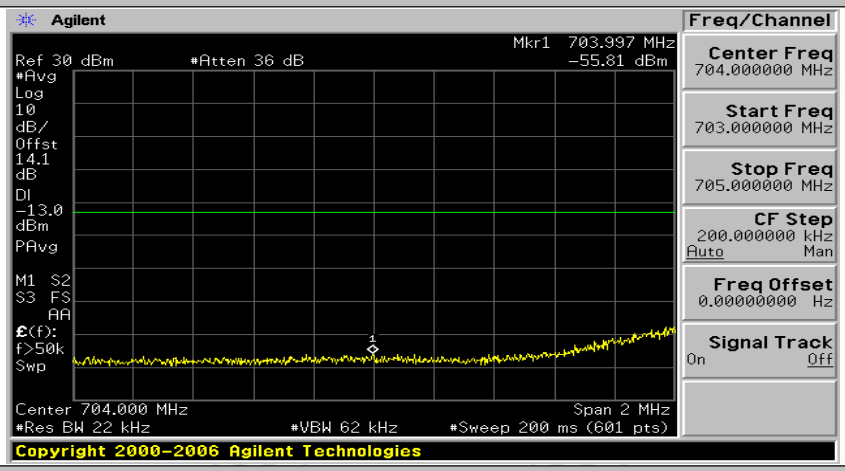
Appendix D: Band Edge

Test Graphs
Channel Bandwidth: 5 MHz

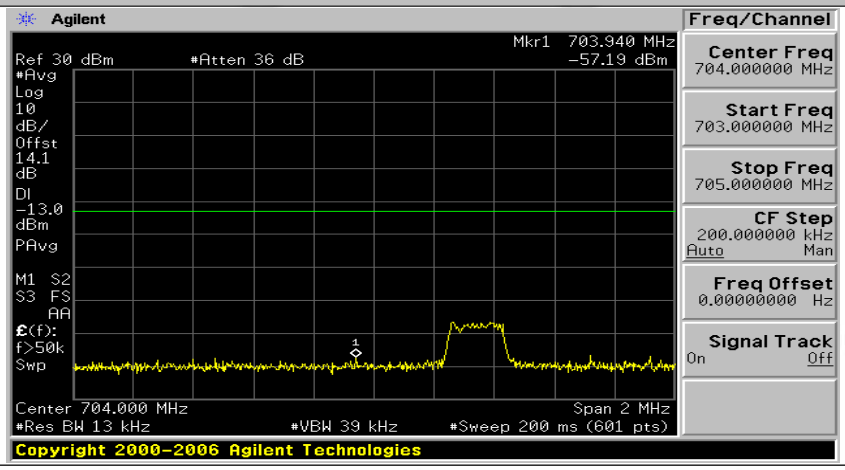
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



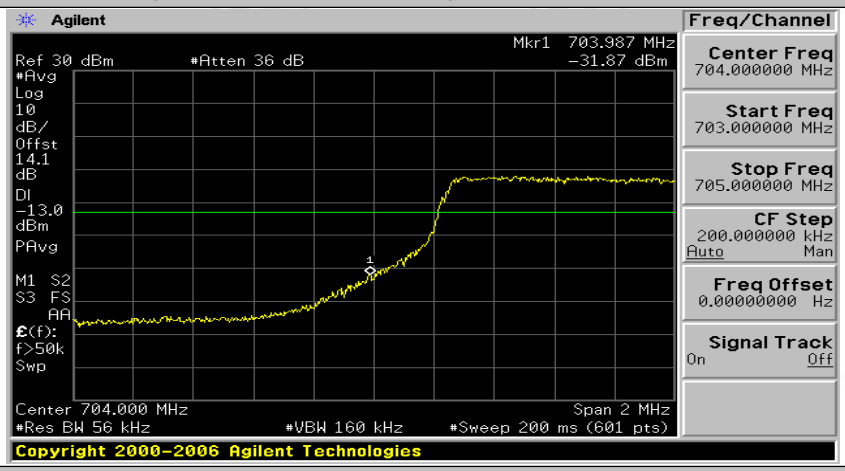
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12



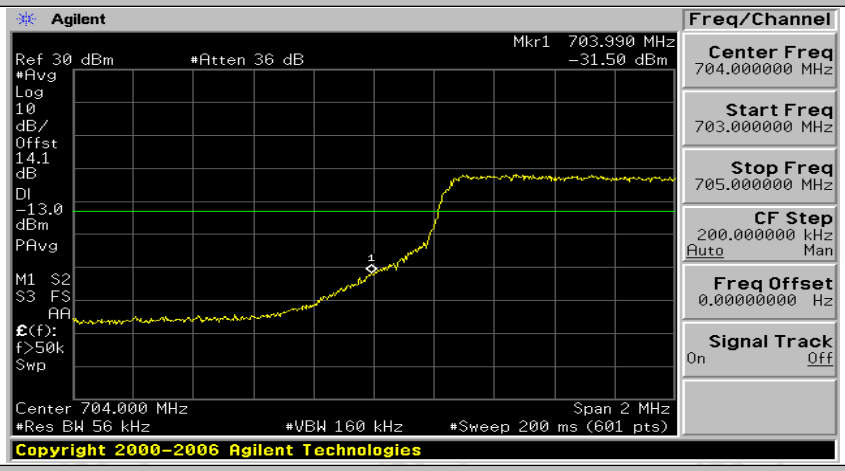
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24



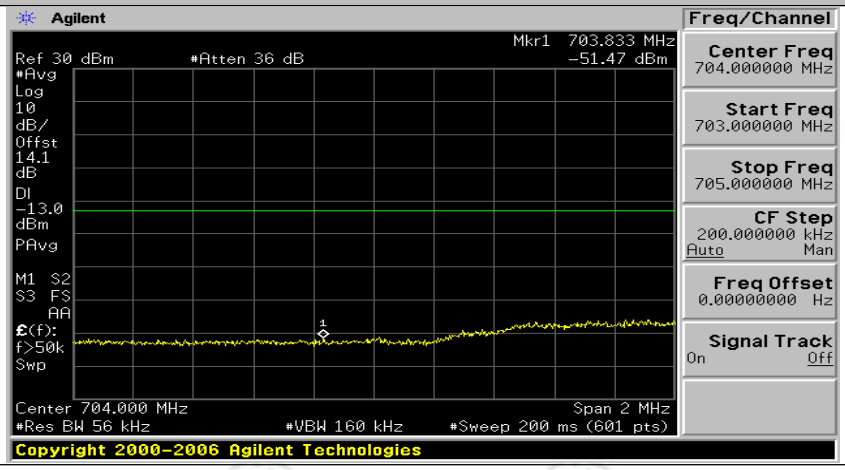
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#0



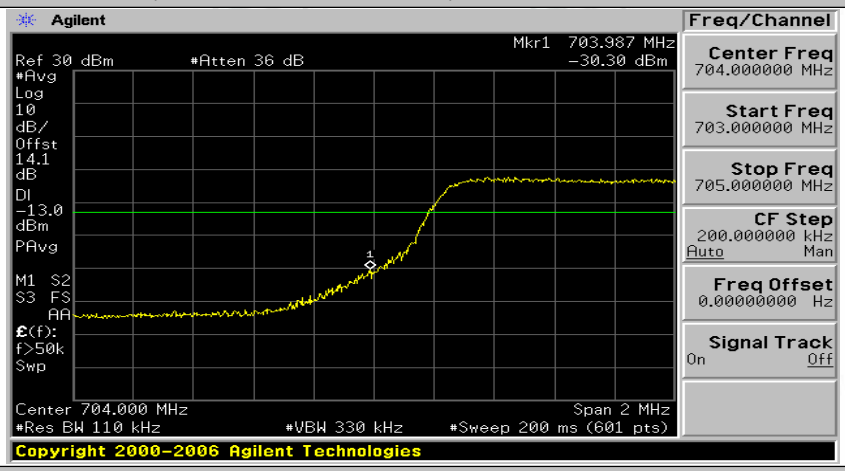
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#6



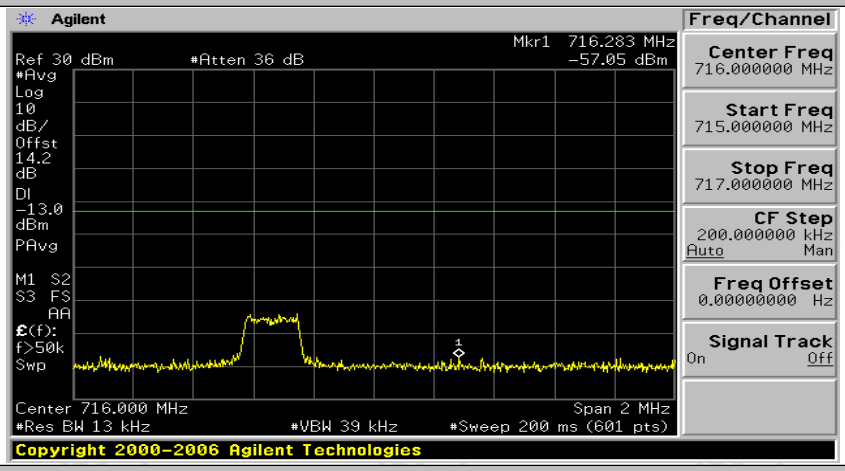
(Channel Bandwidth: 5 MHz)_LCH_QPSK_12RB#13



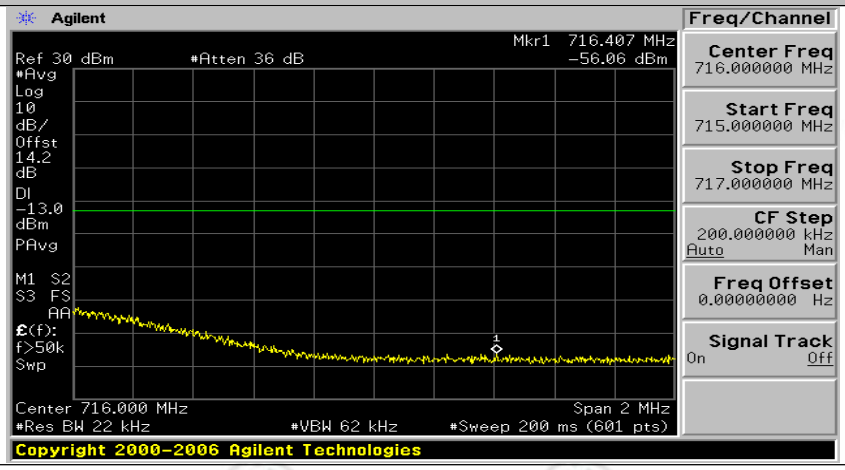
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



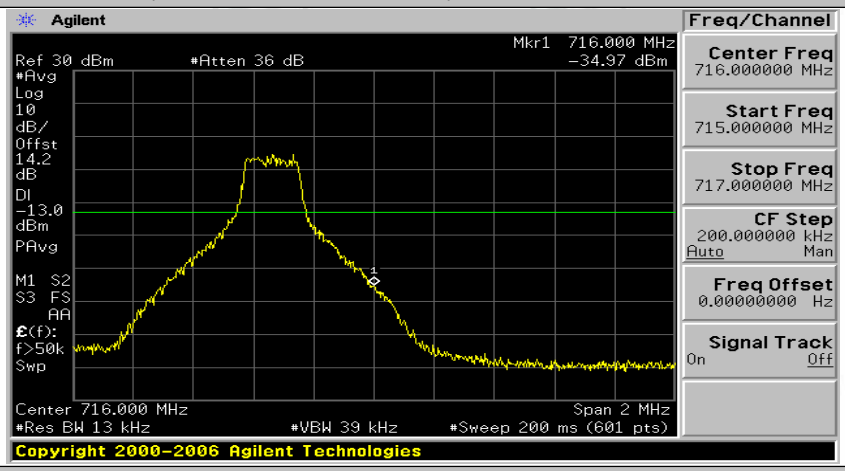
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



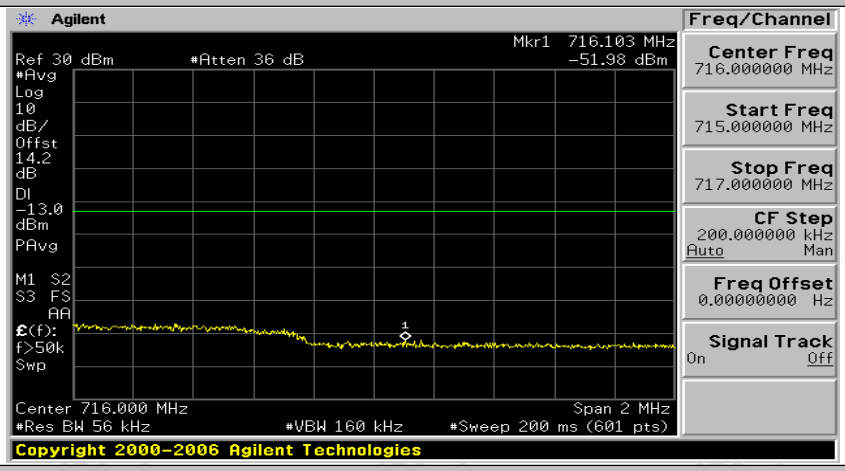
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12



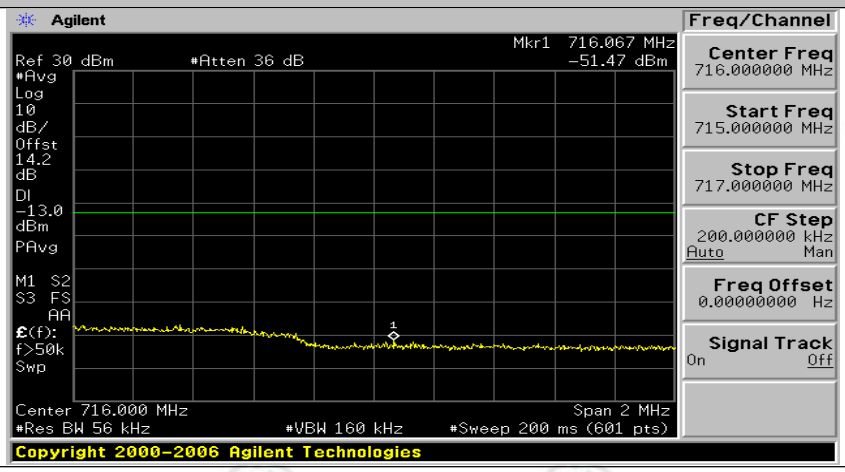
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



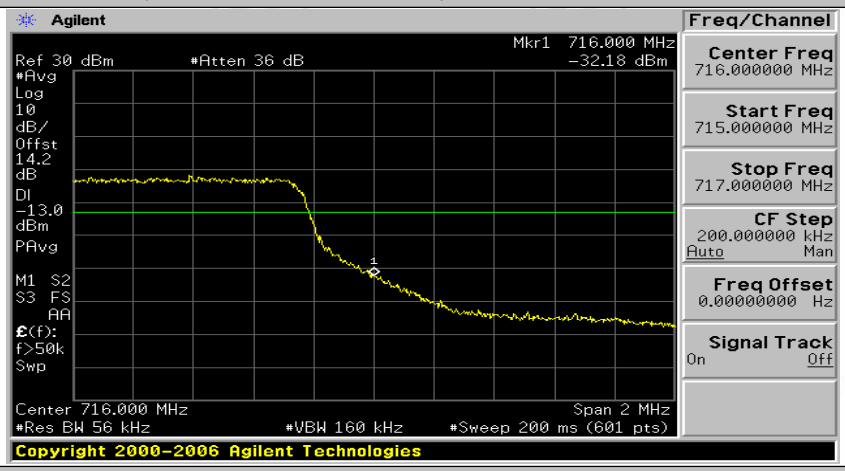
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#0



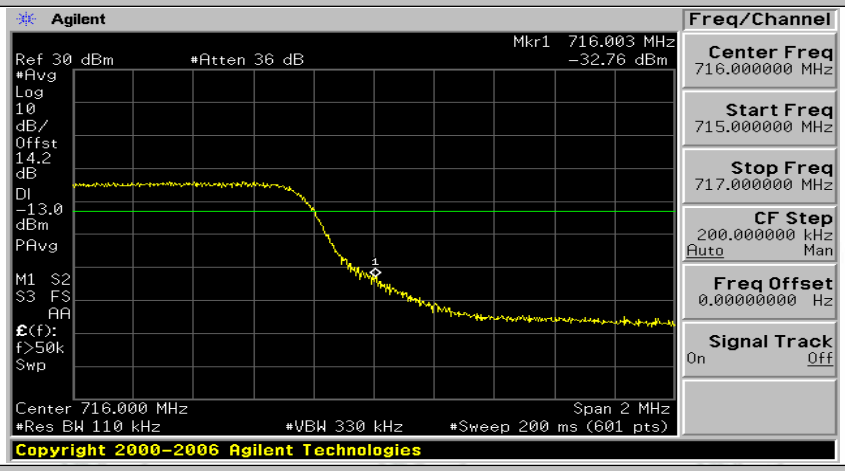
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#6



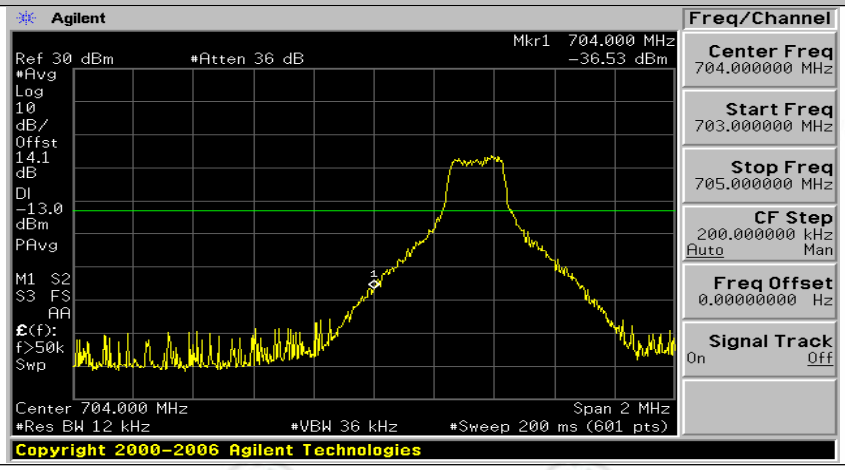
(Channel Bandwidth: 5 MHz)_HCH_QPSK_12RB#13



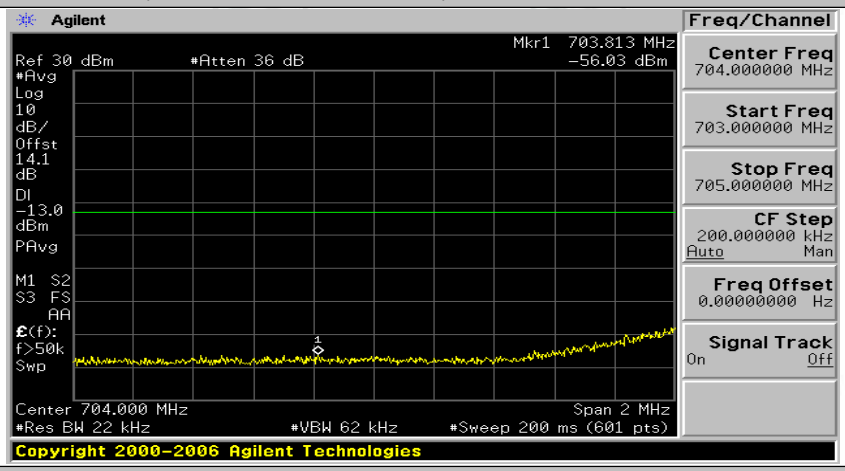
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



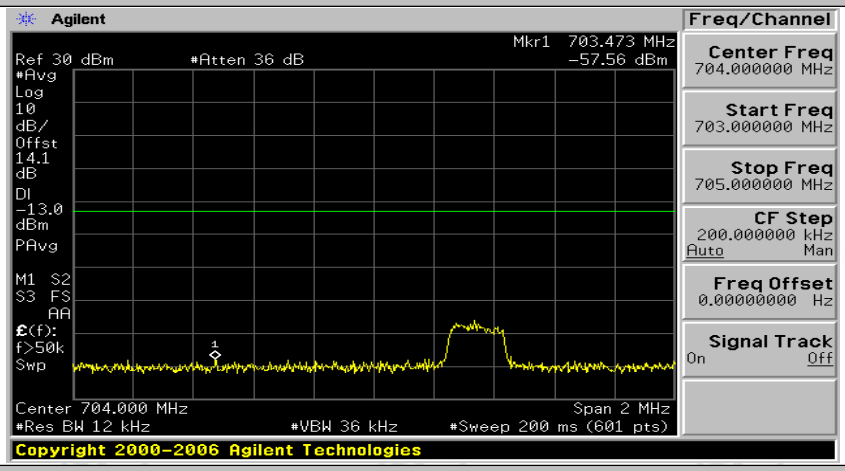
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12



(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24



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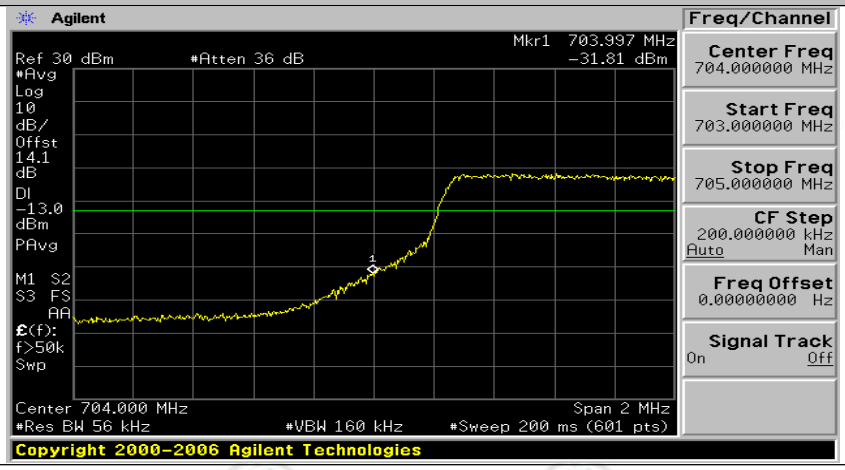
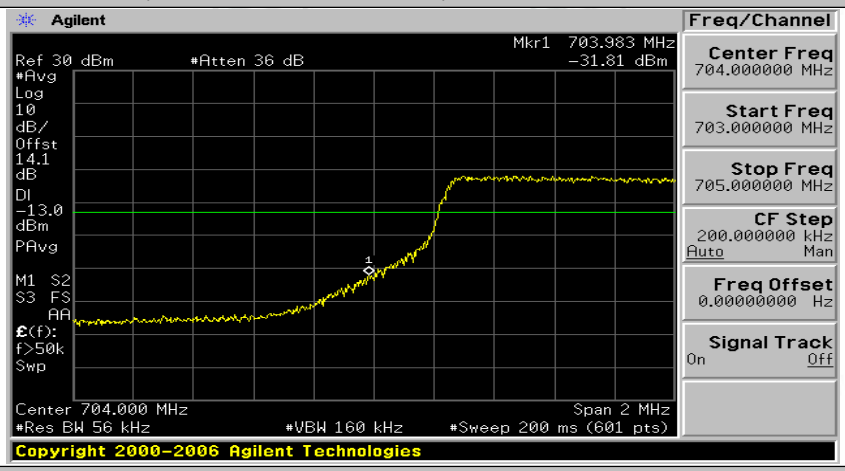
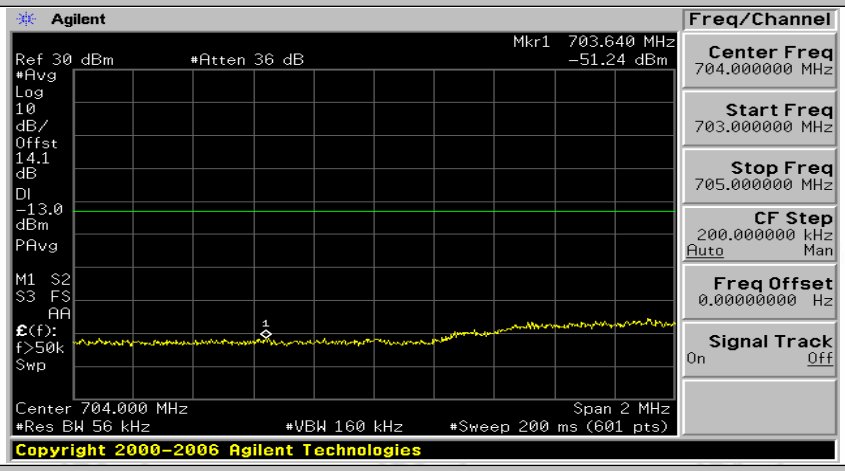


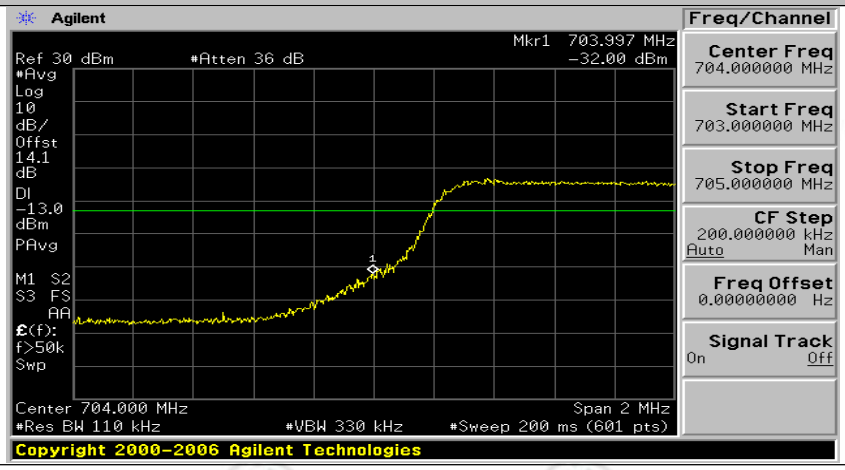
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#6



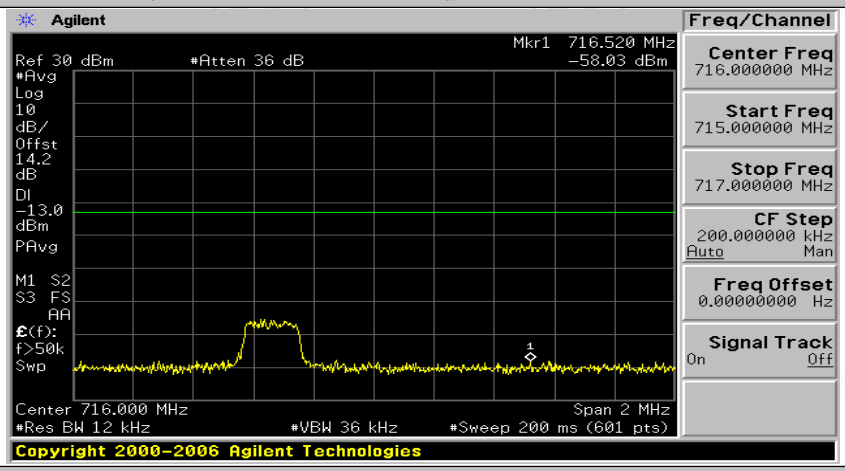
(Channel Bandwidth: 5 MHz)_LCH_16QAM_12RB#13



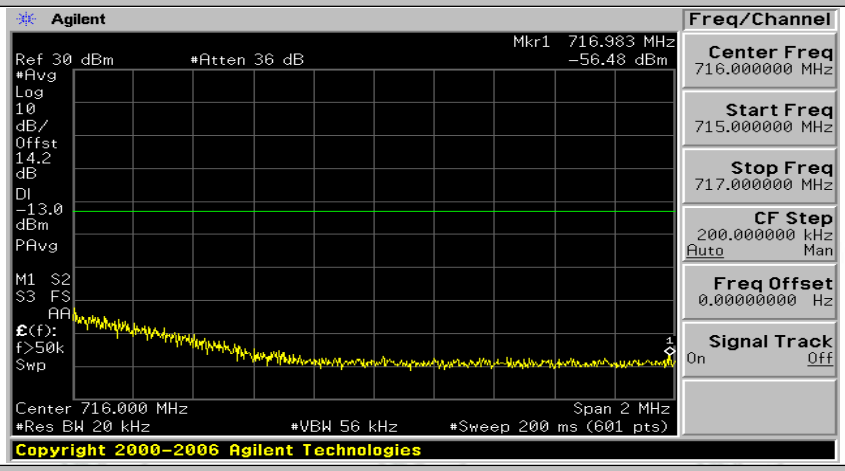
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0



(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



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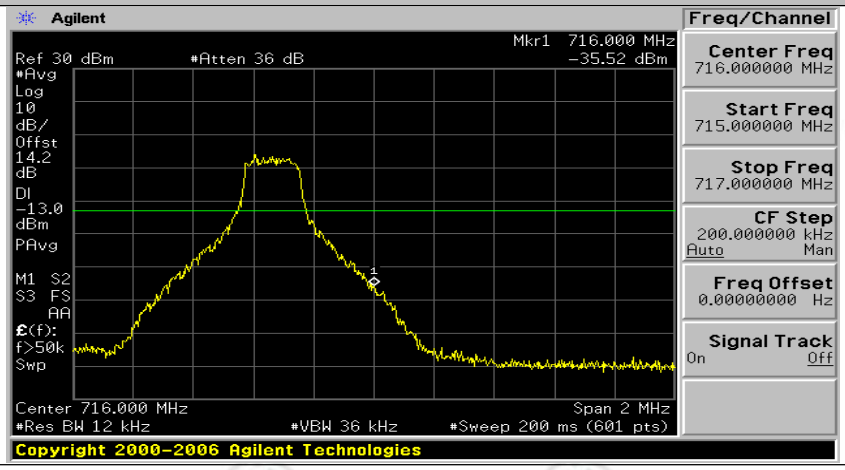
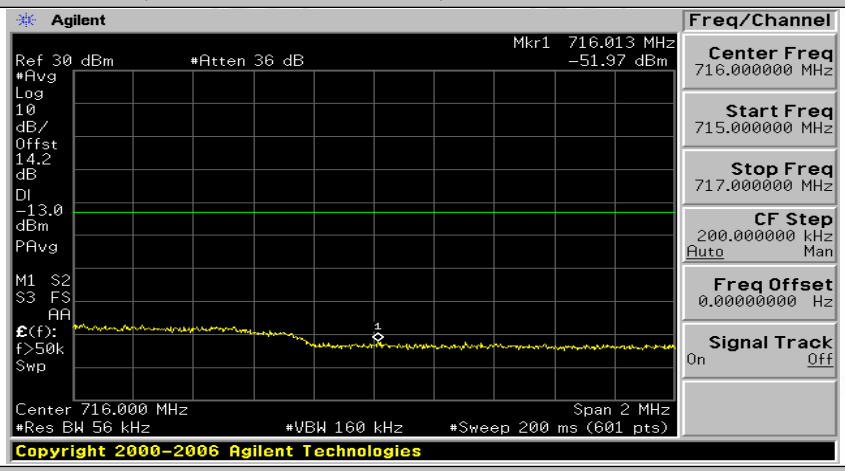
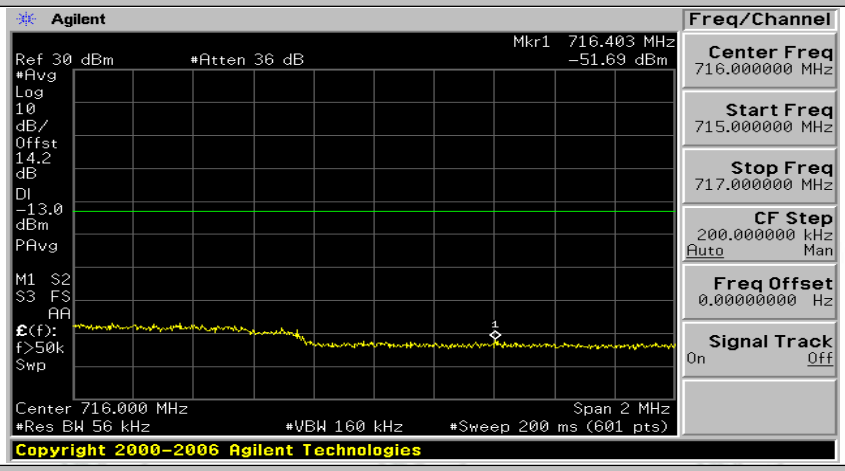


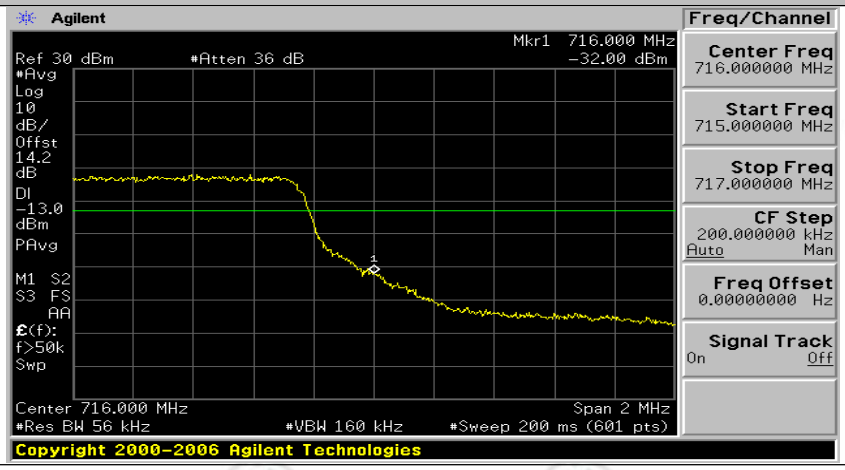
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#0



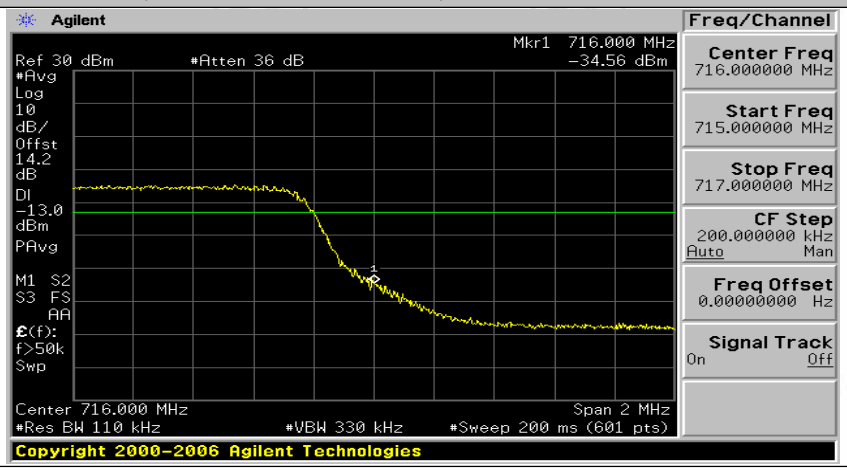
(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#6



(Channel Bandwidth: 5 MHz)_HCH_16QAM_12RB#13

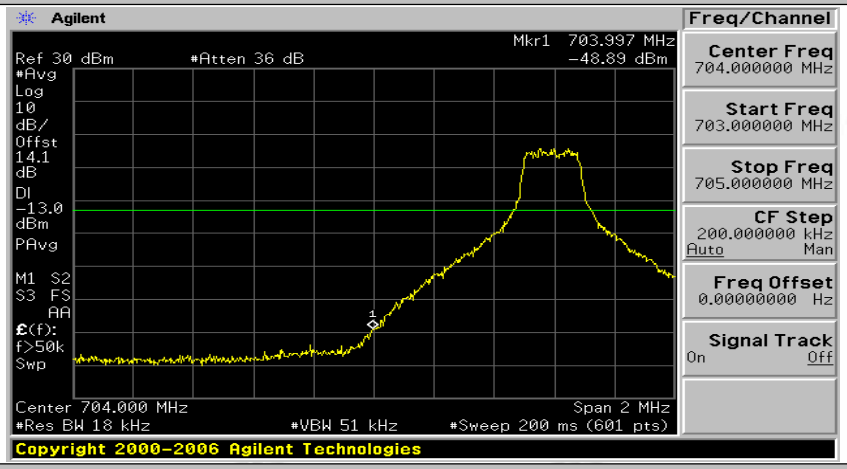


(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

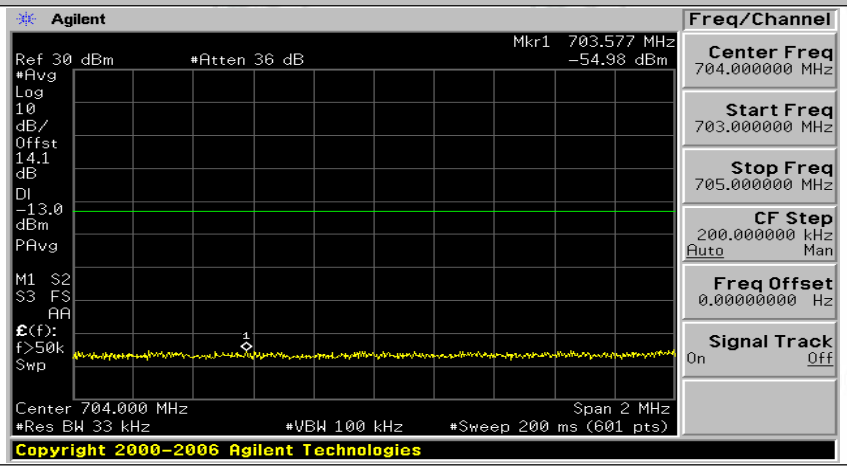


Channel Bandwidth: 10 MHz

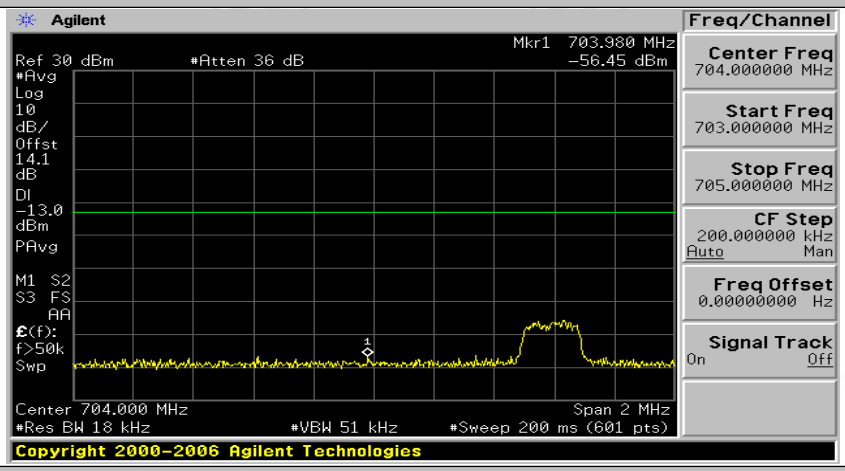
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#24



Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#49



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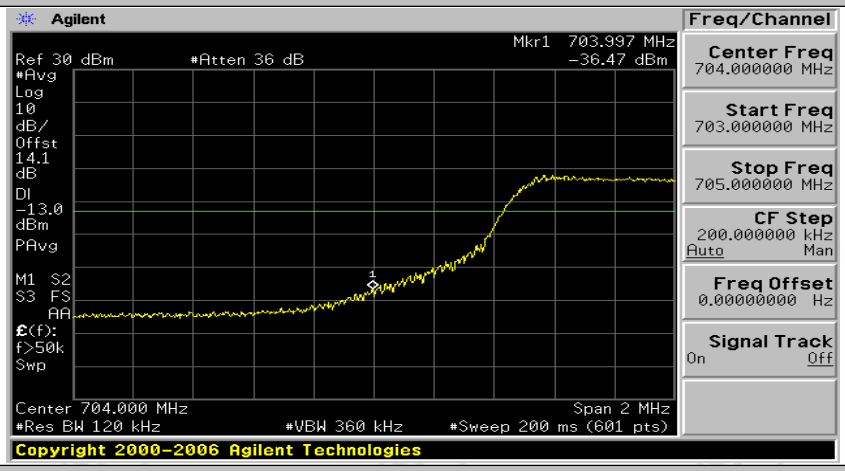

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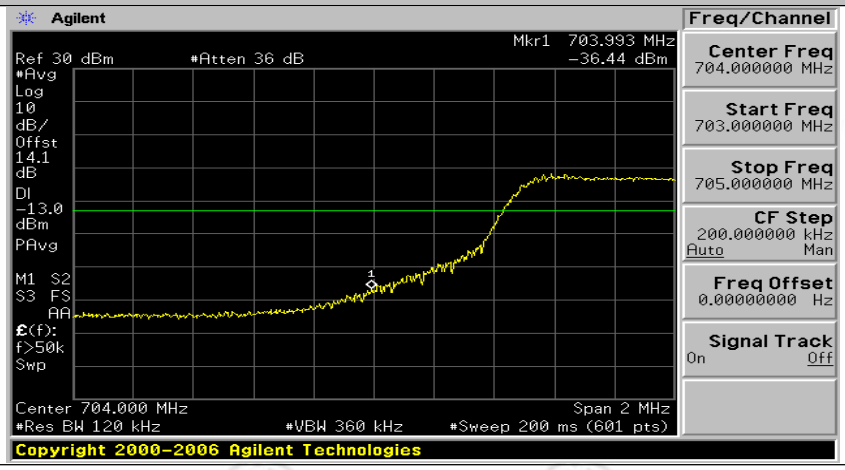

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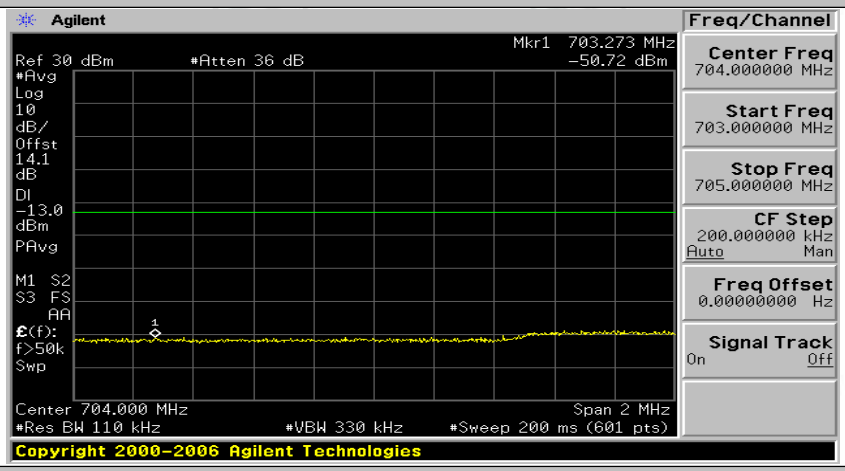
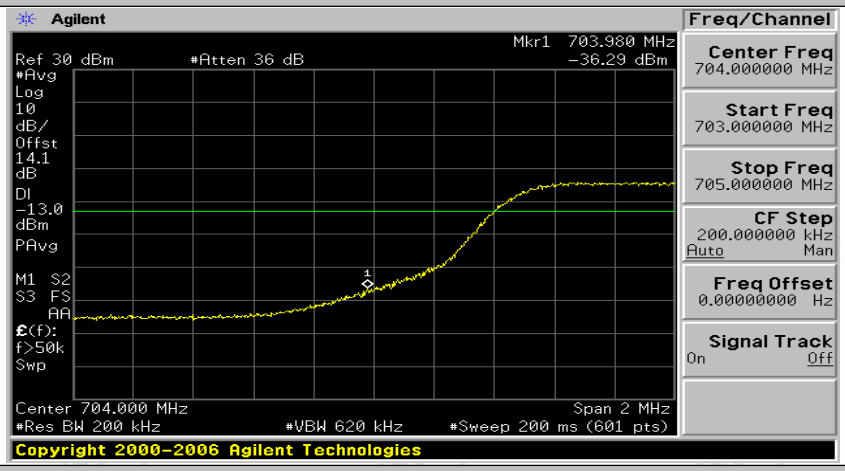
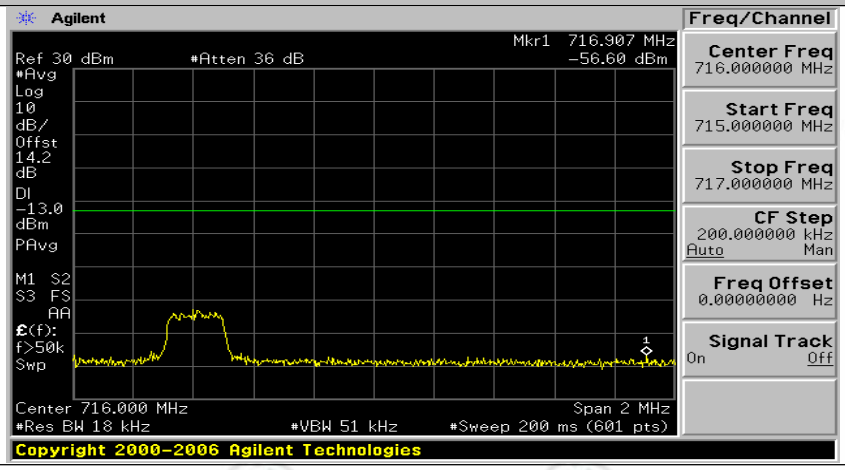


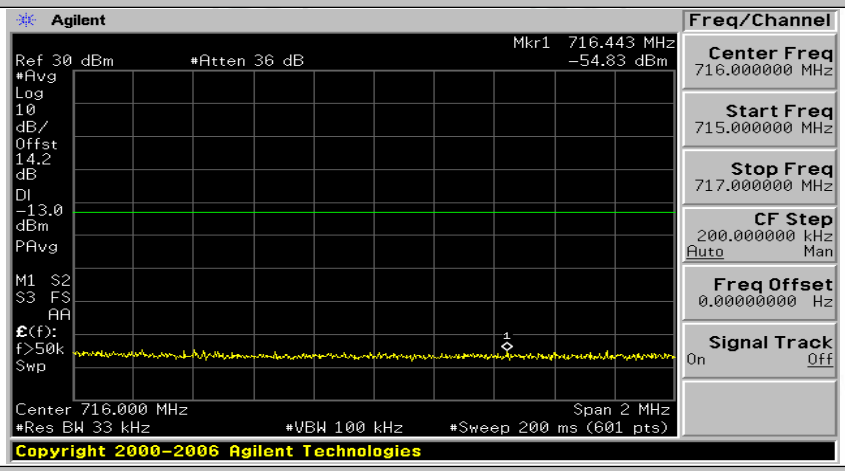
Channel Bandwidth: 10 MHz_LCH_QPSK_50RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#24



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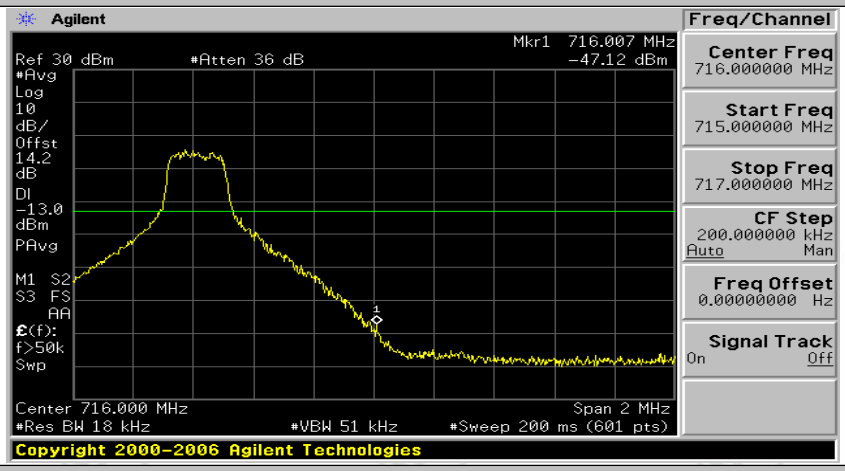
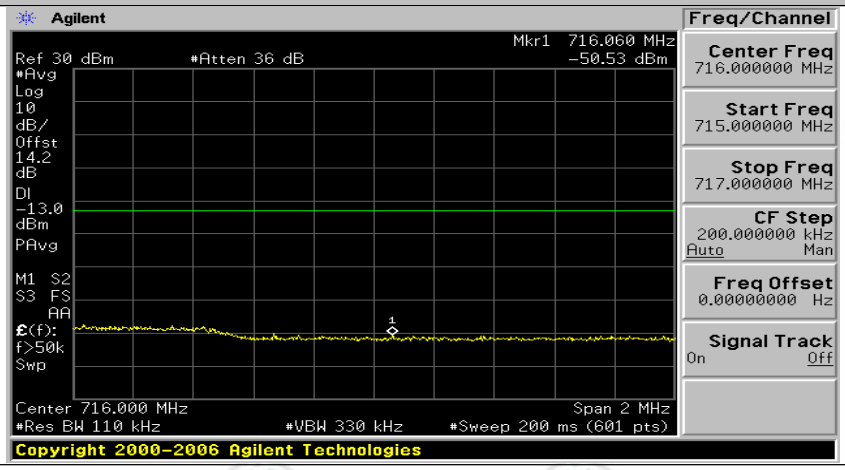
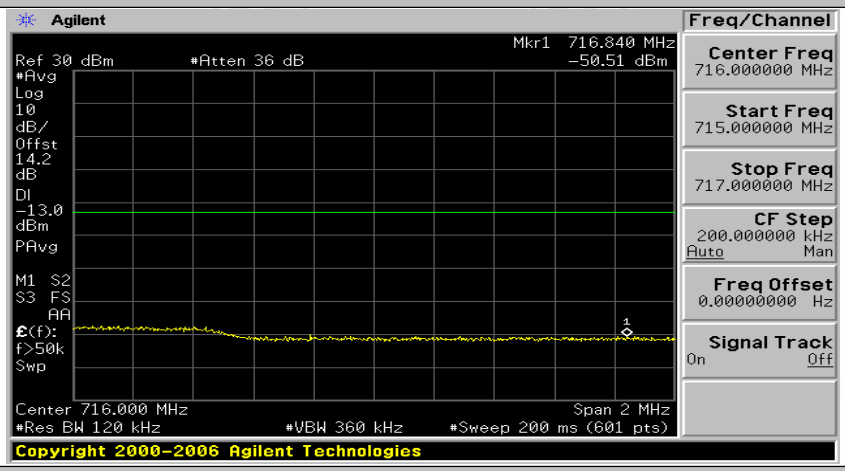


Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#0



Channel Bandwidth: 10 MHz_HCH_QPSK_25RB#12



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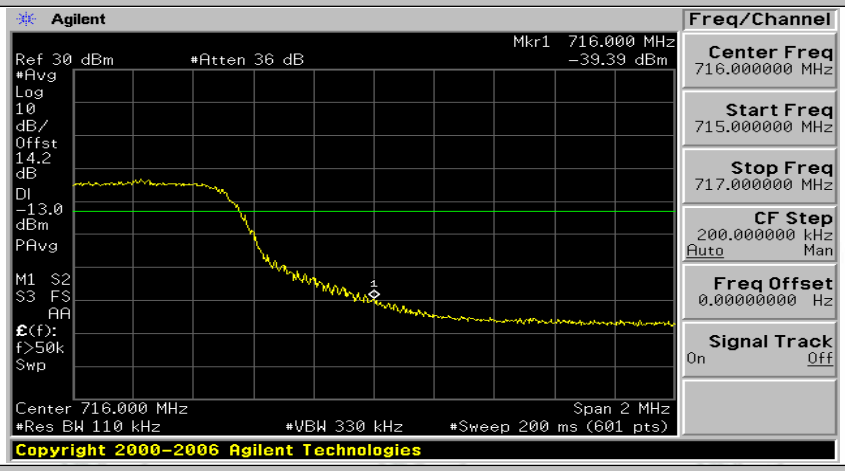
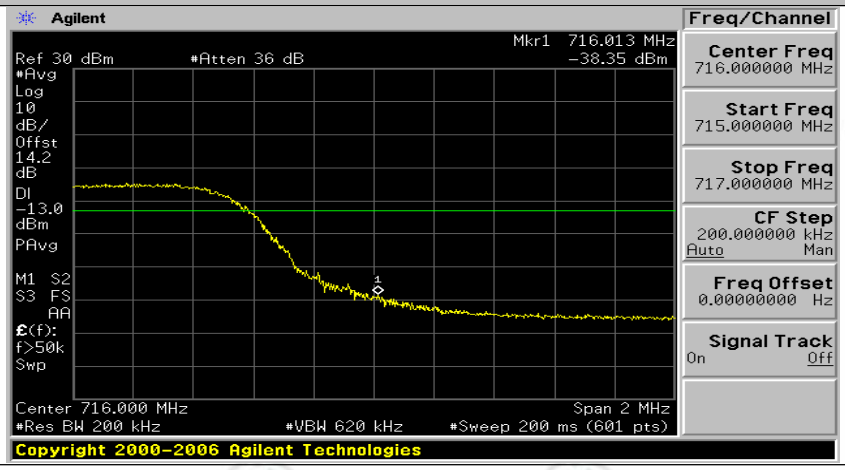
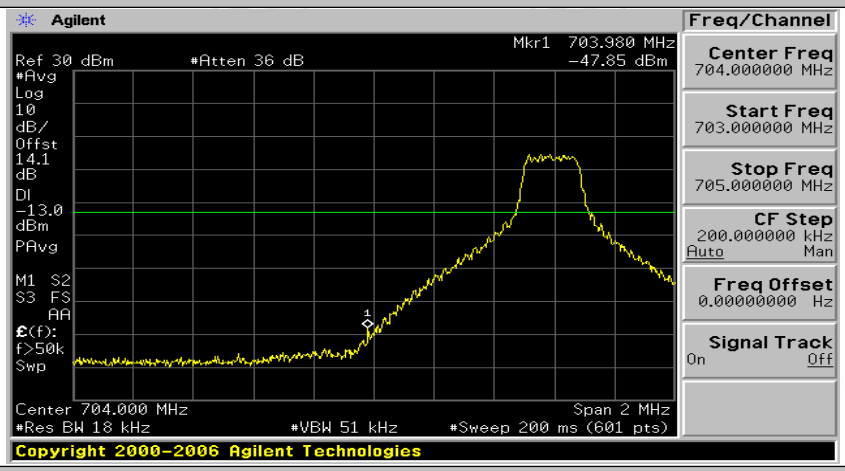


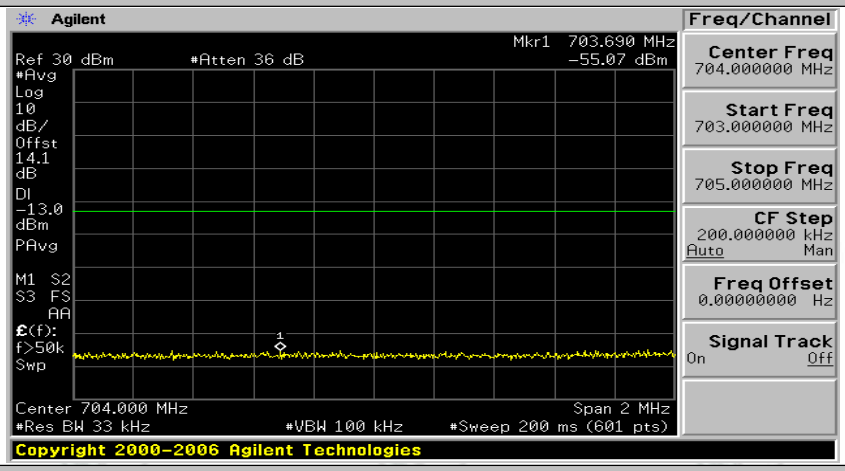
Channel Bandwidth: 10 MHz_HCH_QPSK_50RB#0



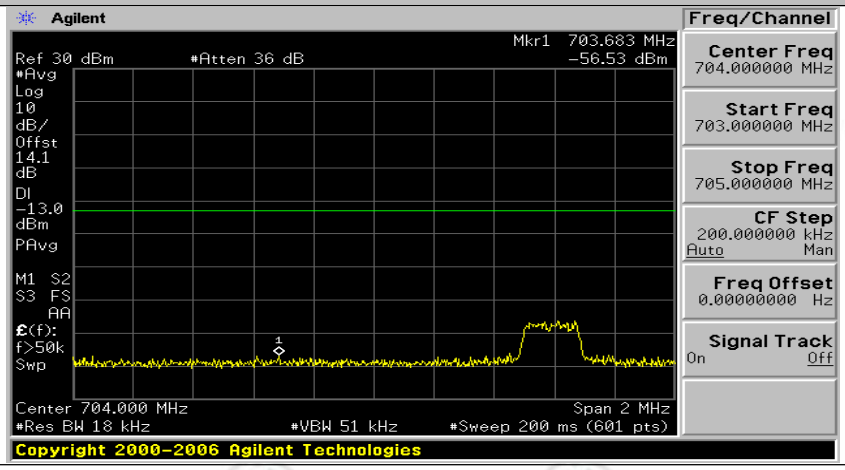
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24



Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#49



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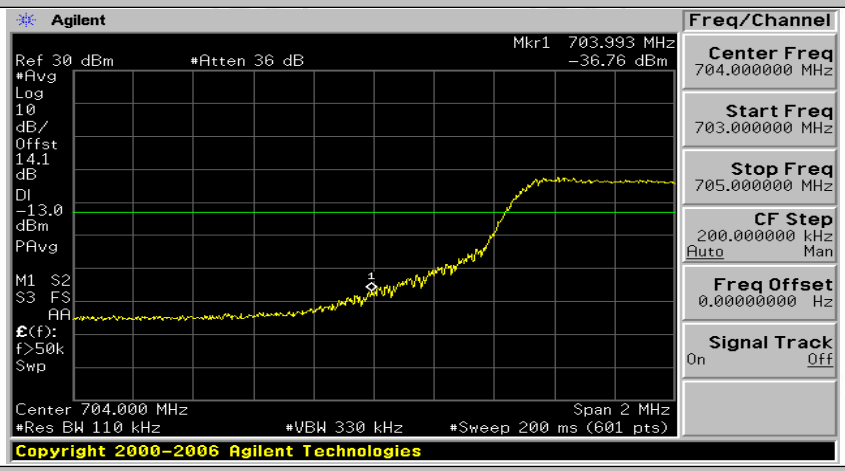
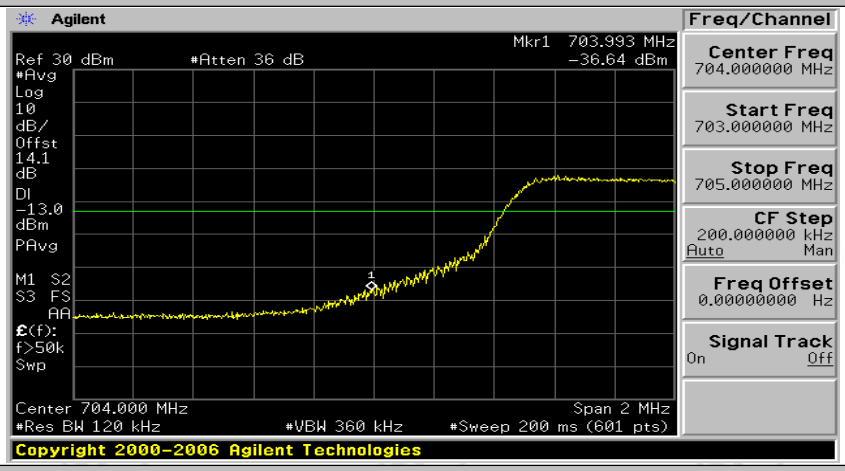
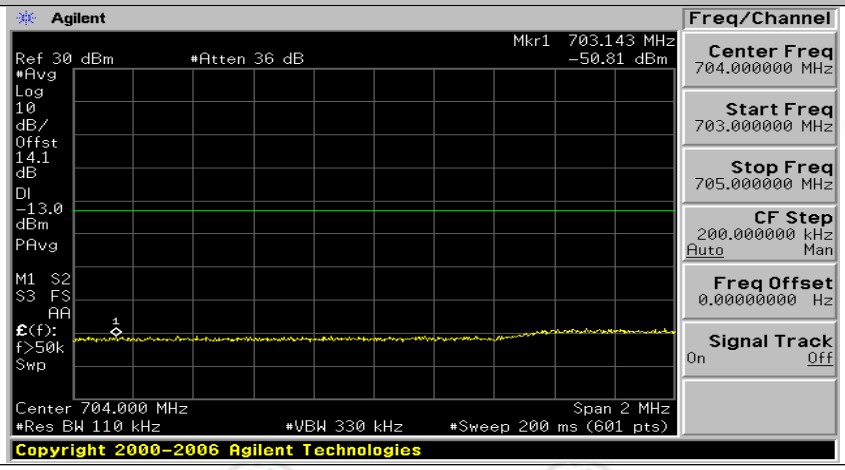


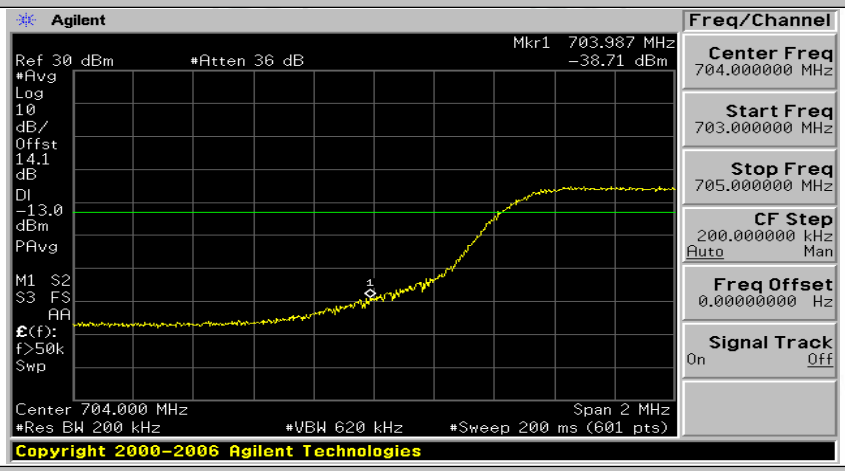
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#12



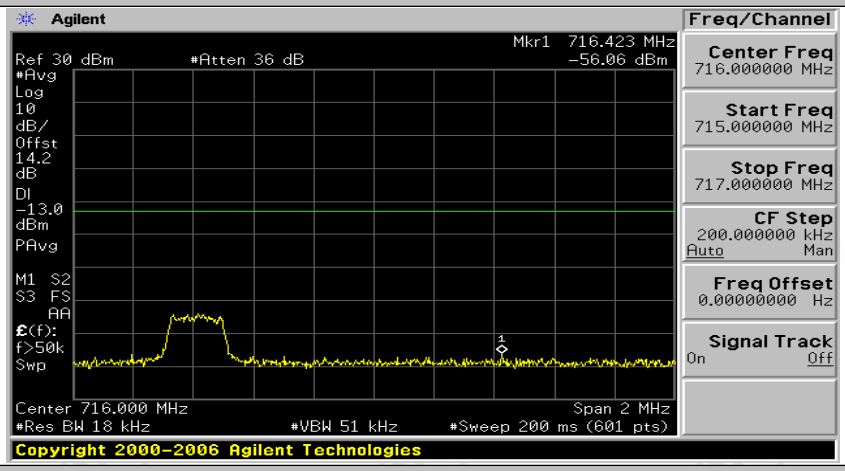
Channel Bandwidth: 10 MHz_LCH_16QAM_25RB#25



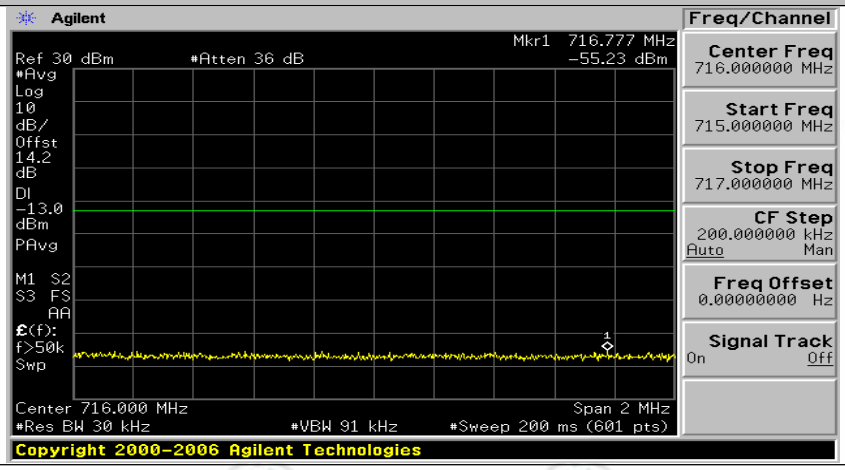
Channel Bandwidth: 10 MHz_LCH_16QAM_50RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24



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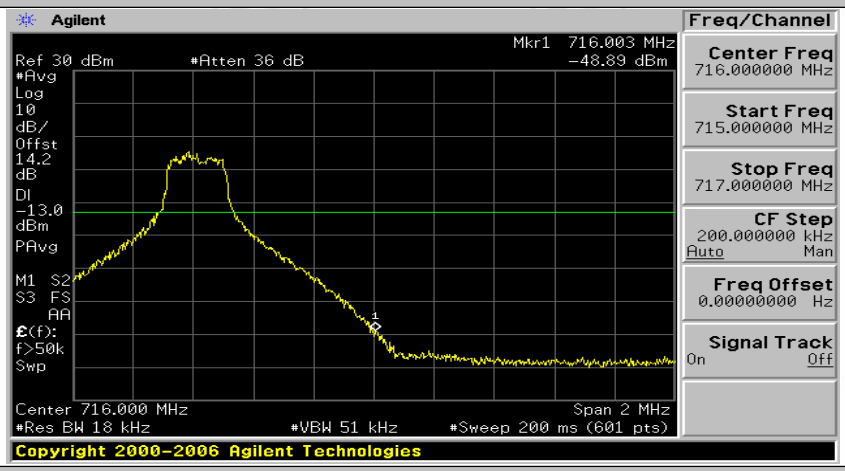
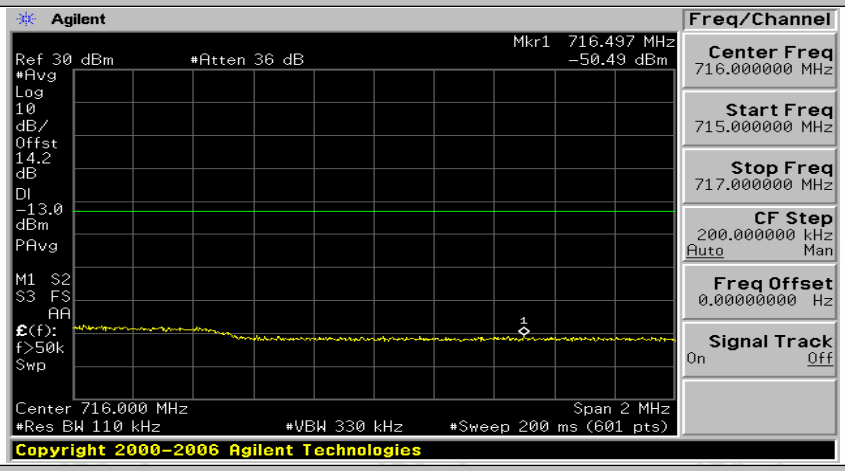
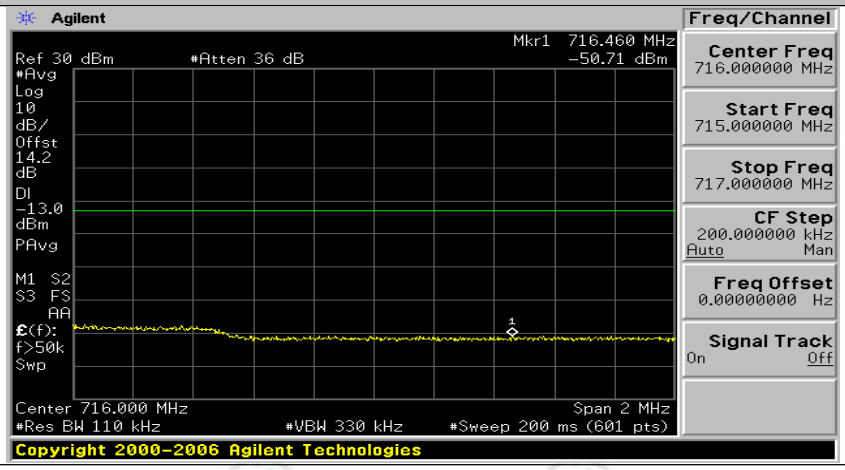


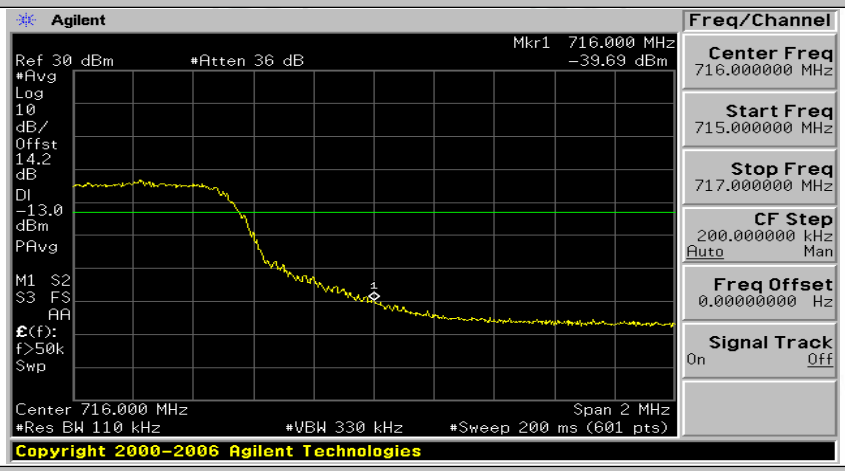
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#0



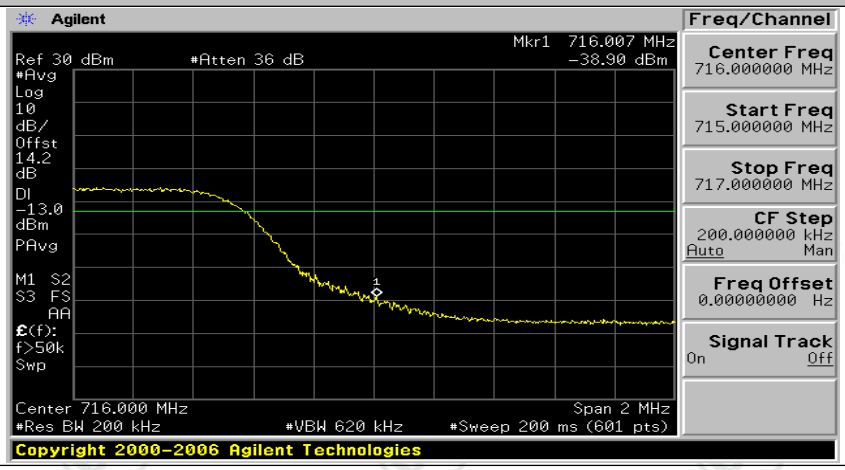
Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#12



Channel Bandwidth: 10 MHz_HCH_16QAM_25RB#25



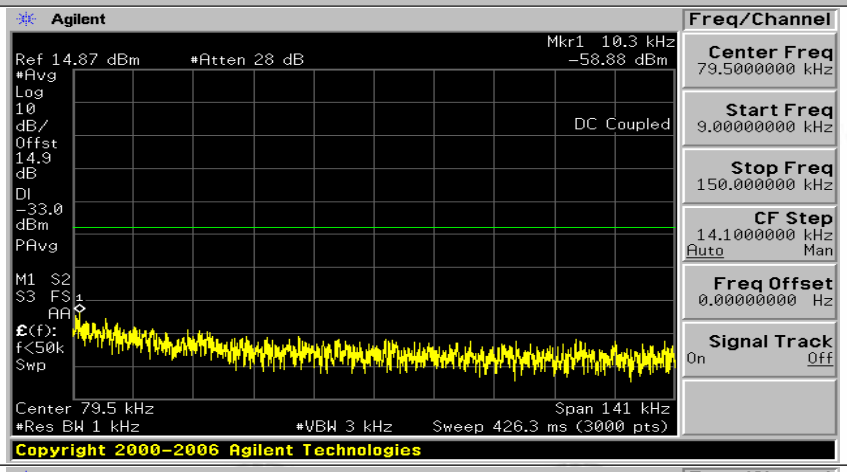
Channel Bandwidth: 10 MHz_HCH_16QAM_50RB#0

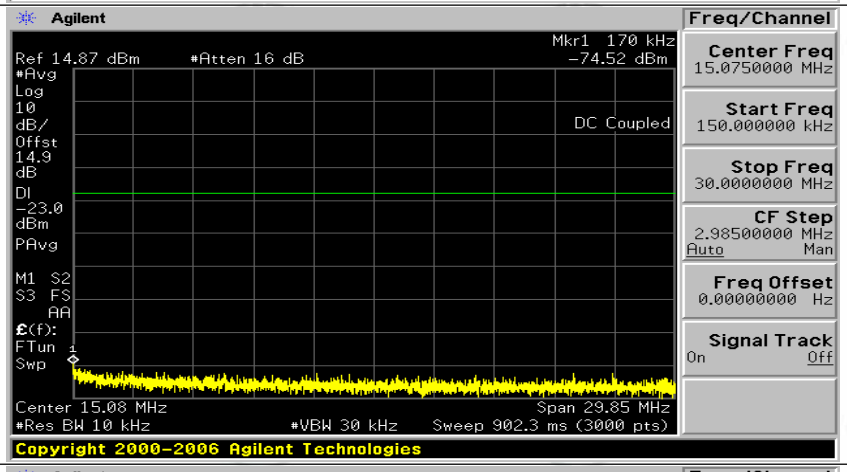


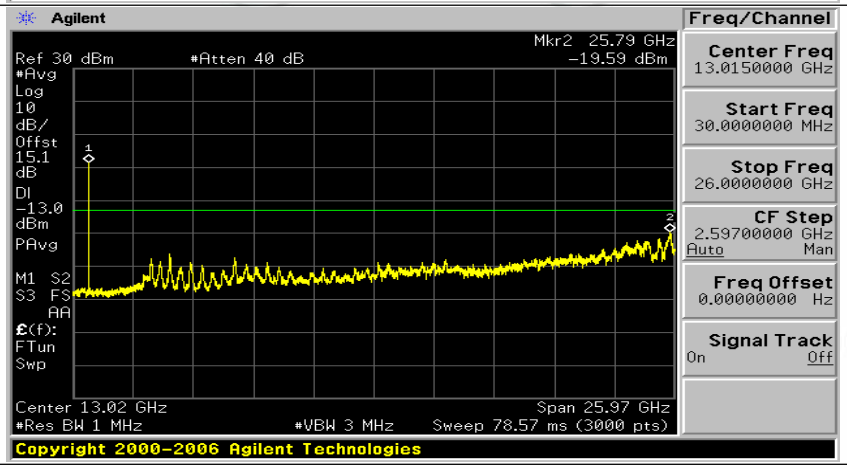
Appendix E: Conducted Spurious Emission

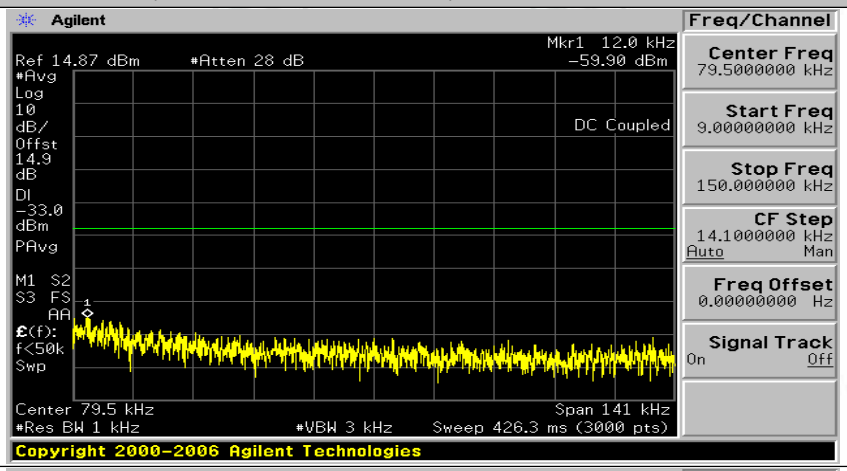
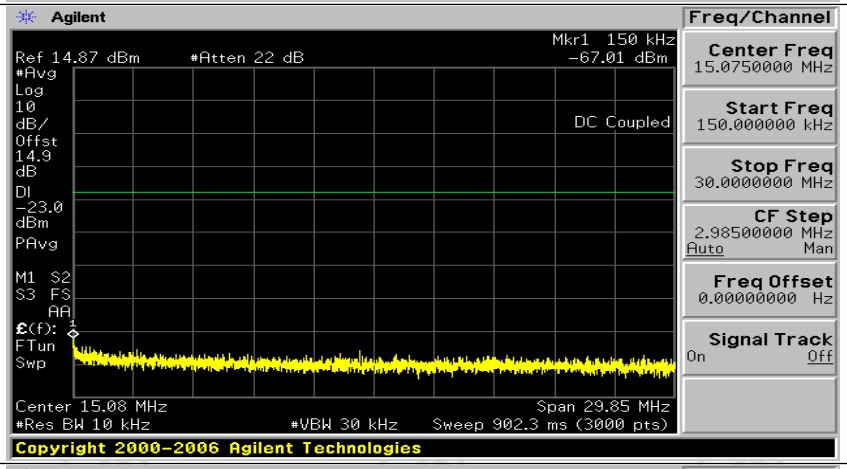
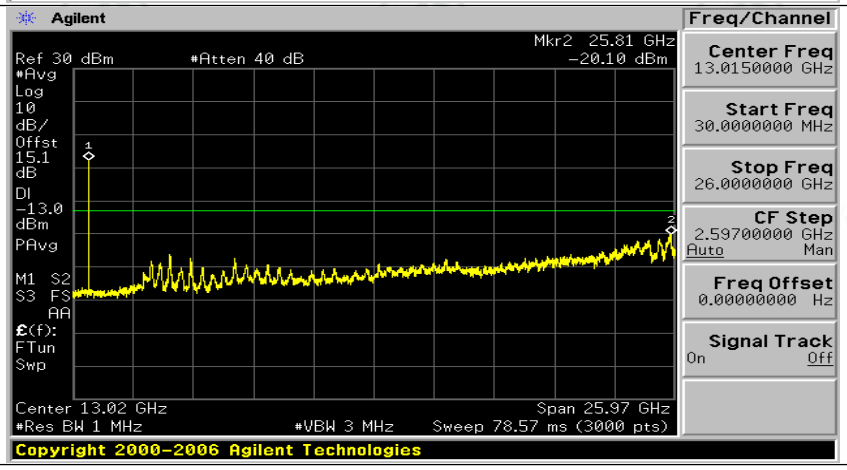
Test Graphs
Channel Bandwidth: 5 MHz

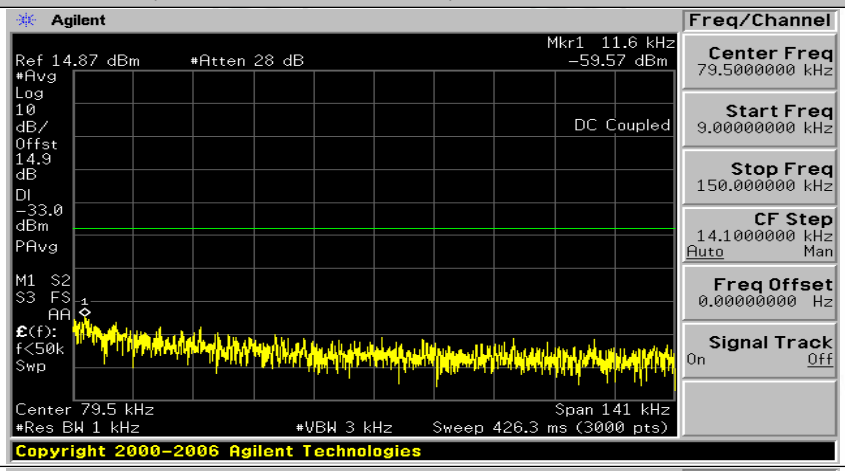
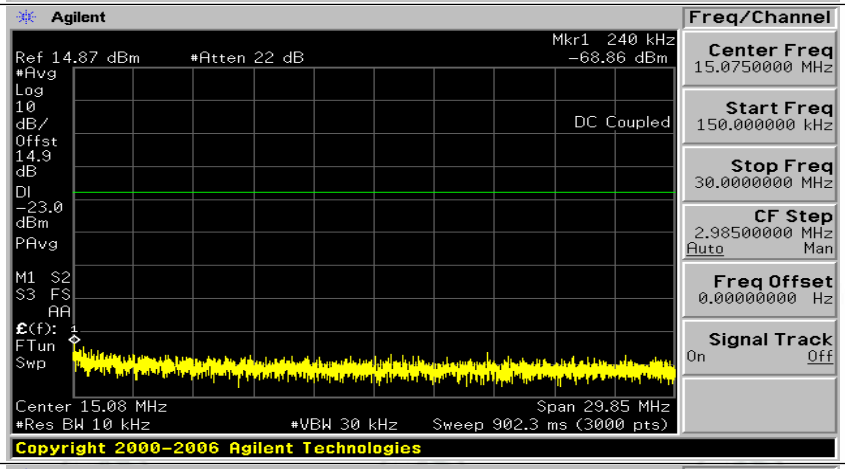
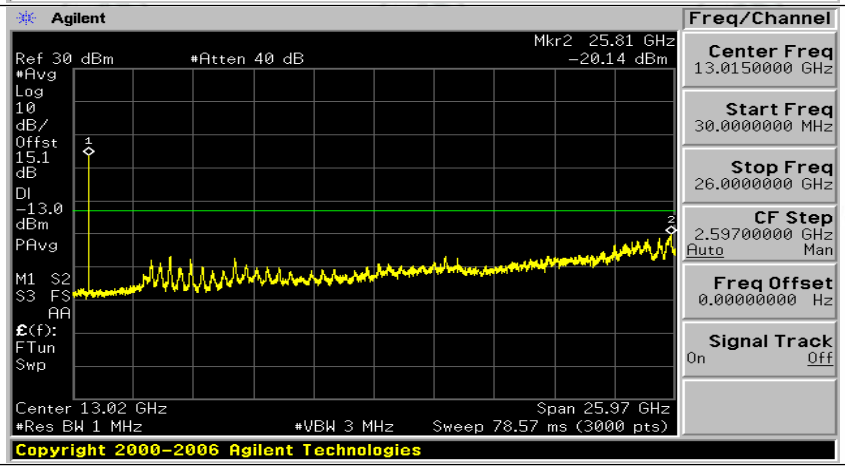
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0

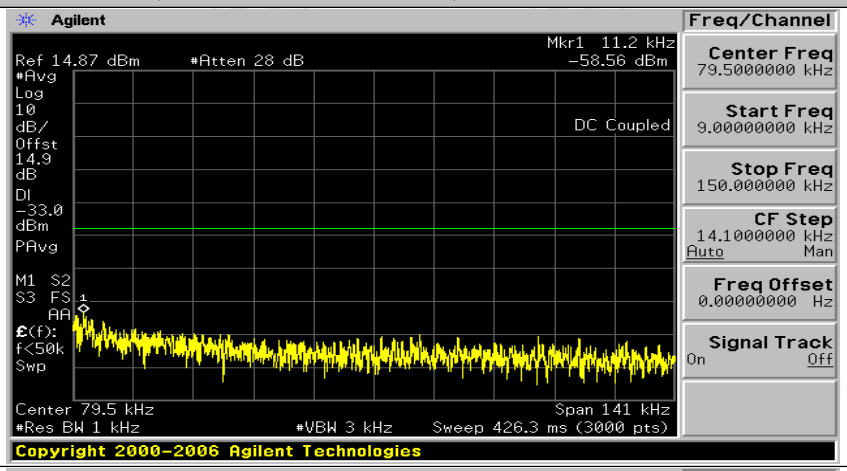
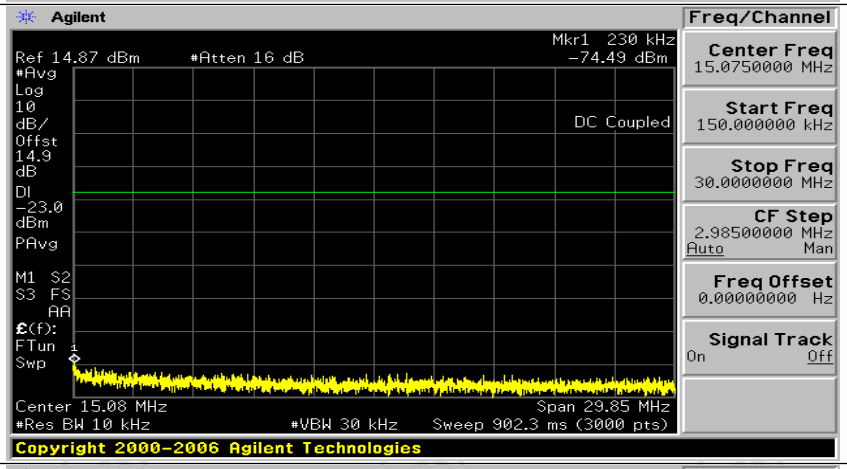
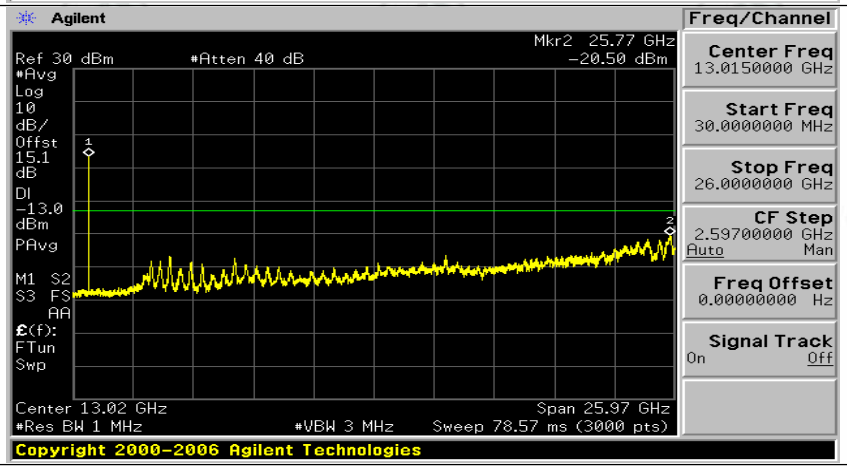


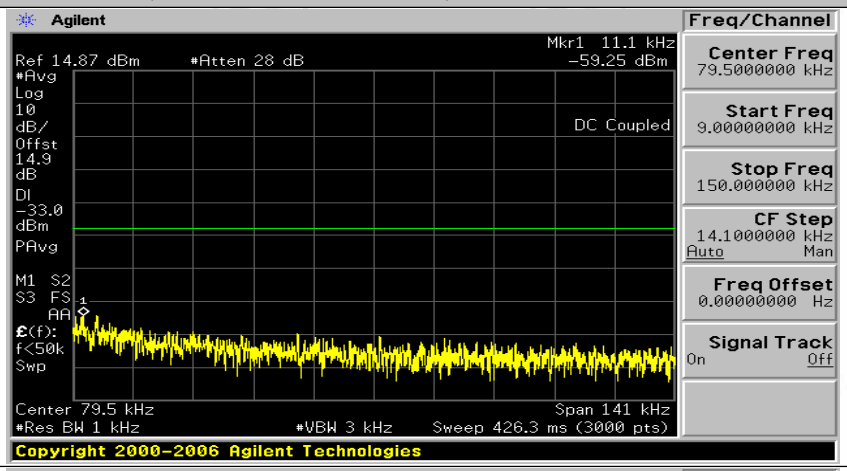
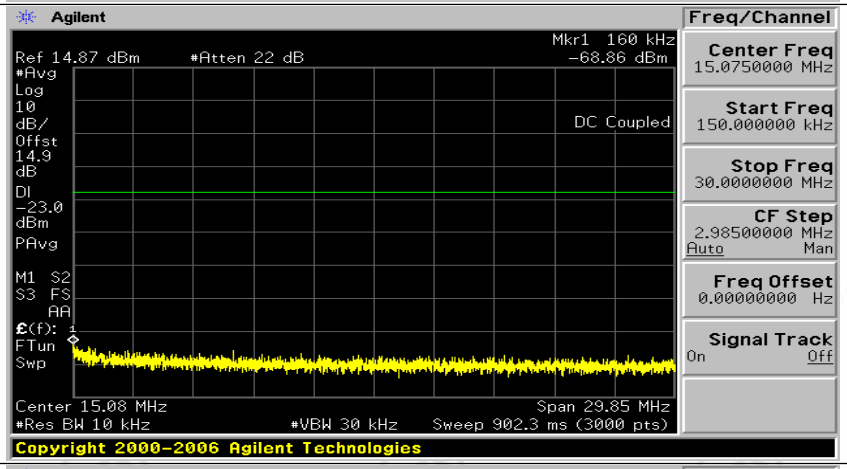
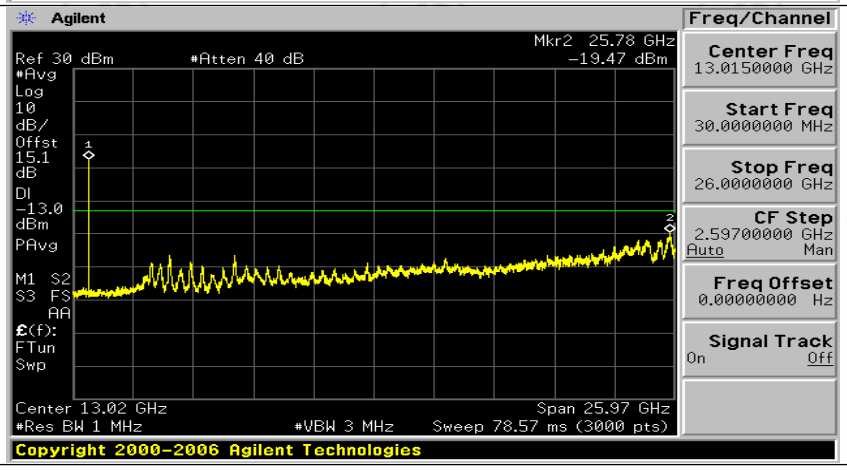


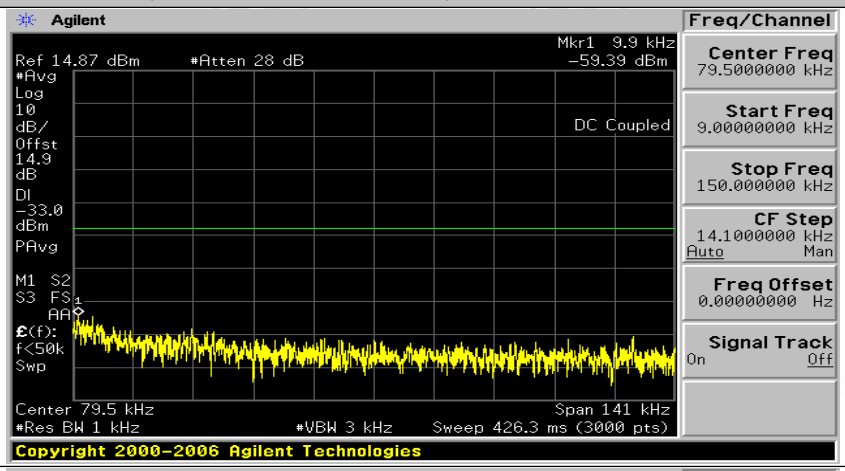
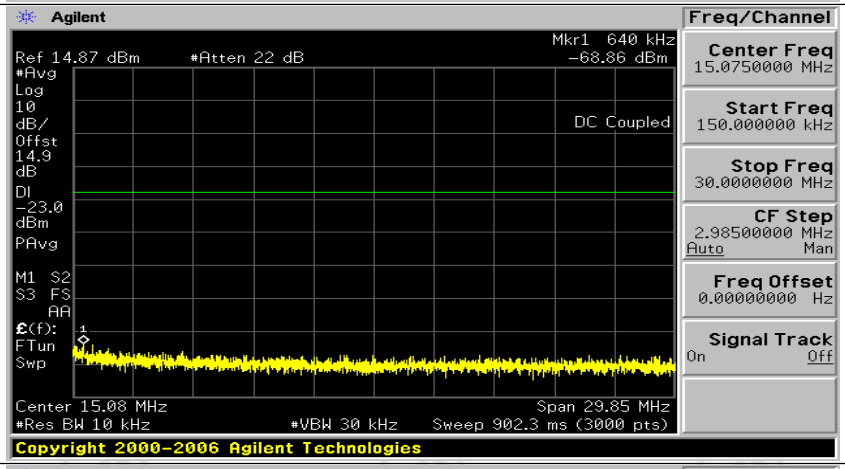
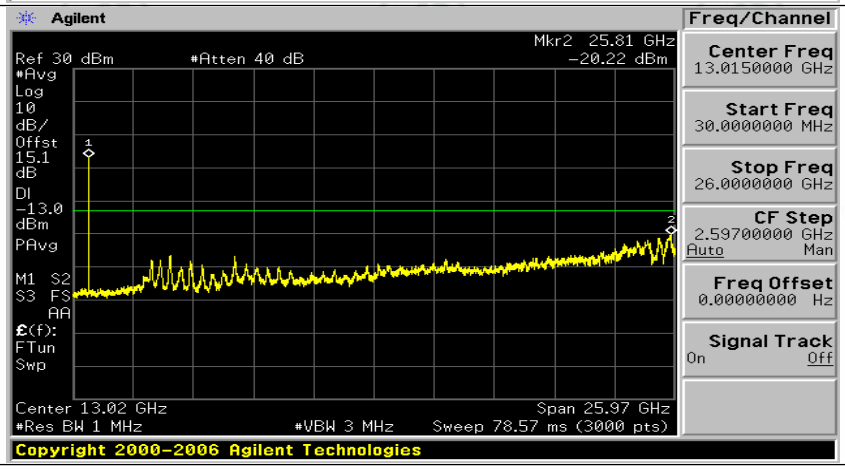


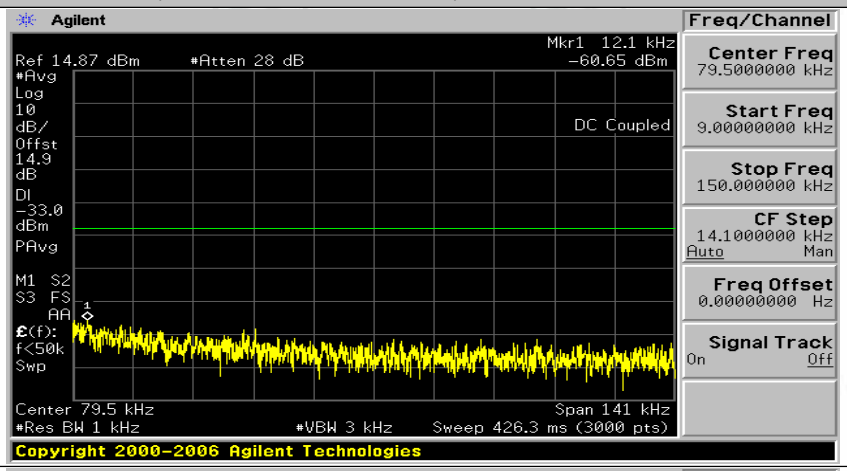
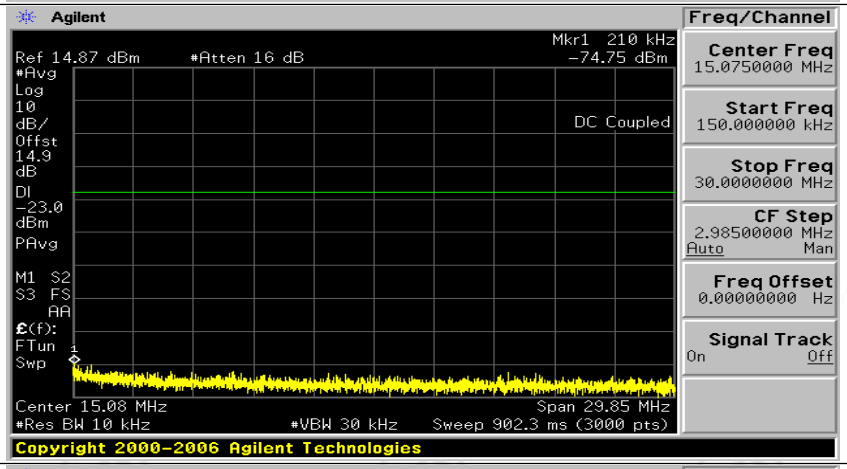
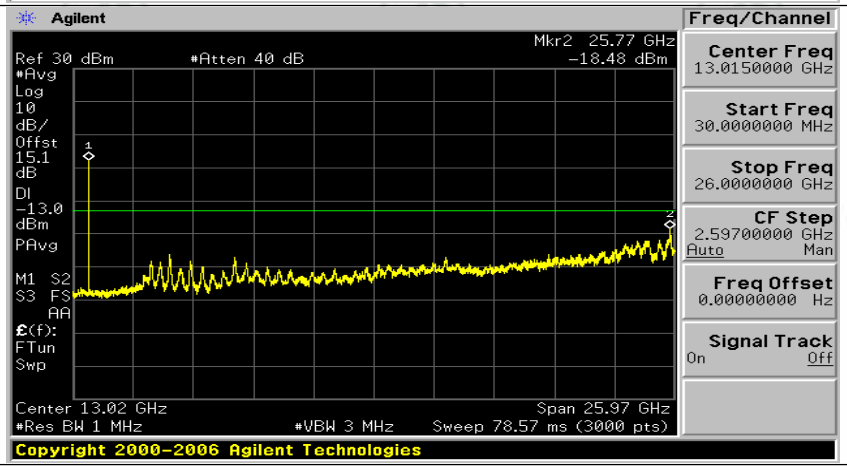
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#12




(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#24




(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0




(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12




(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#24




(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0




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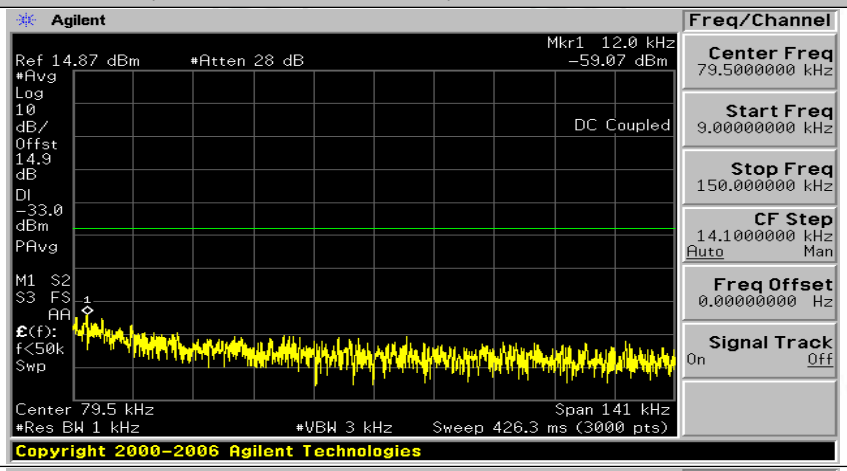
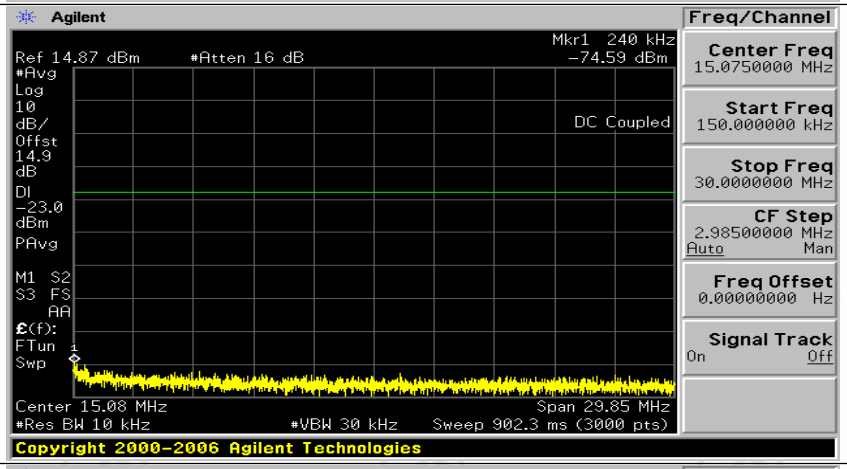
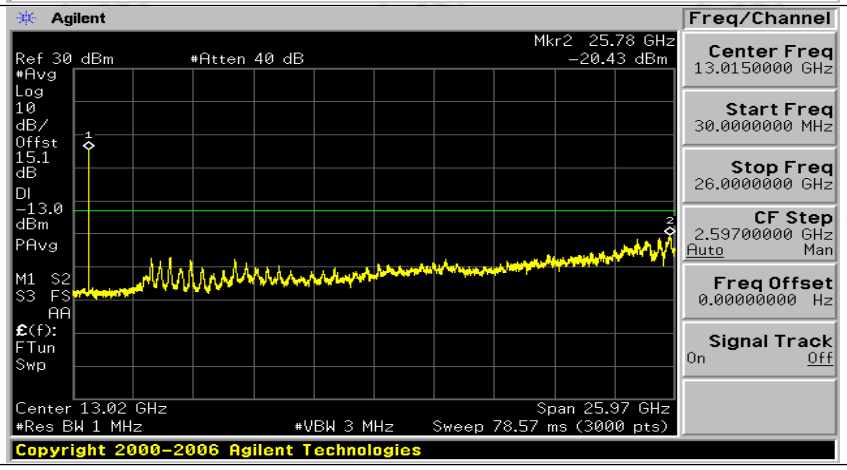
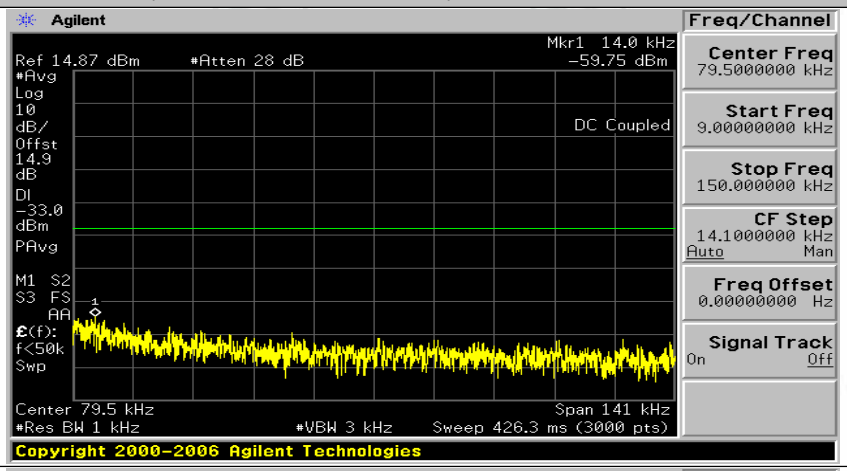
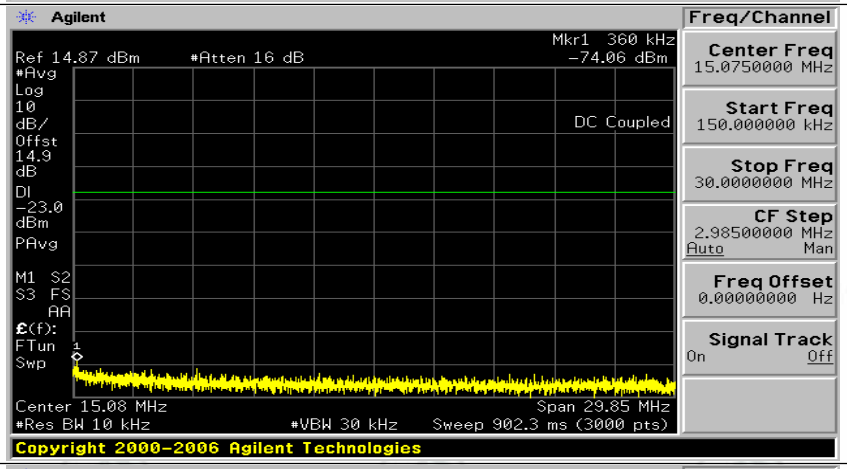
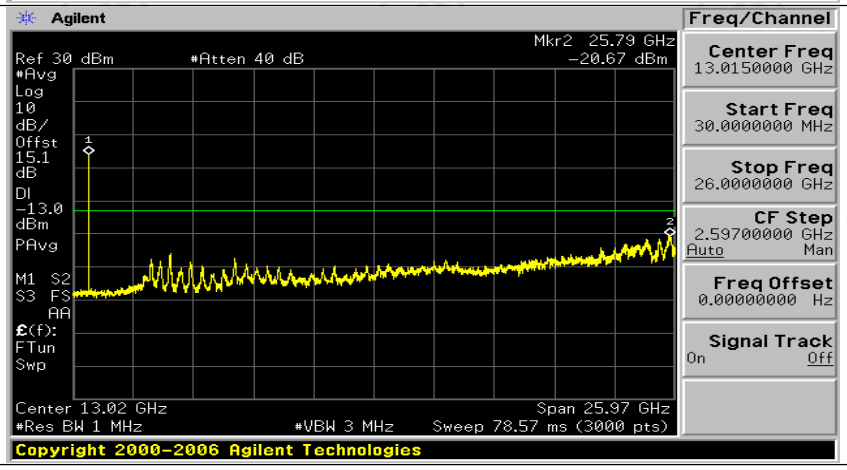
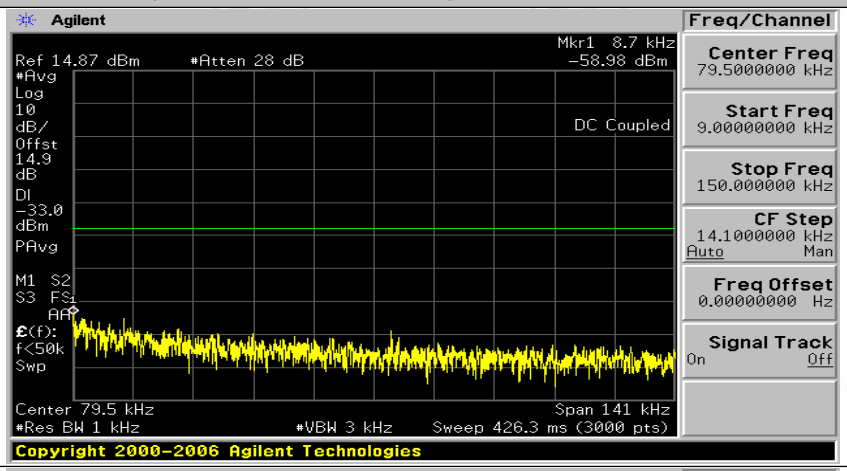
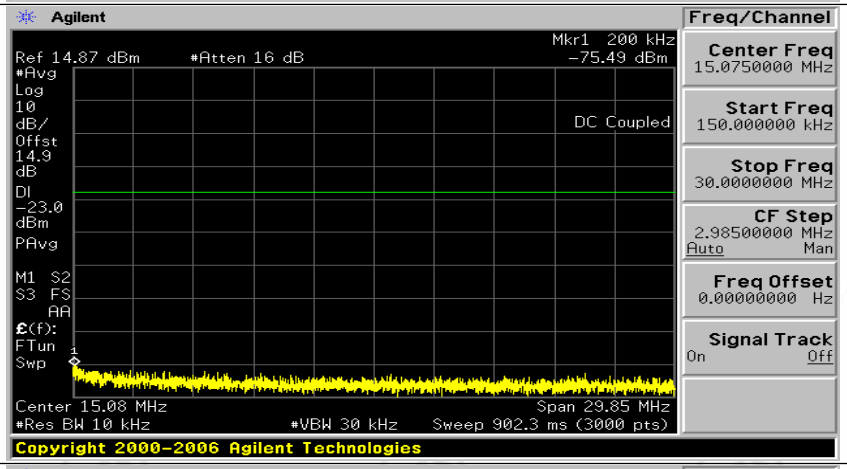
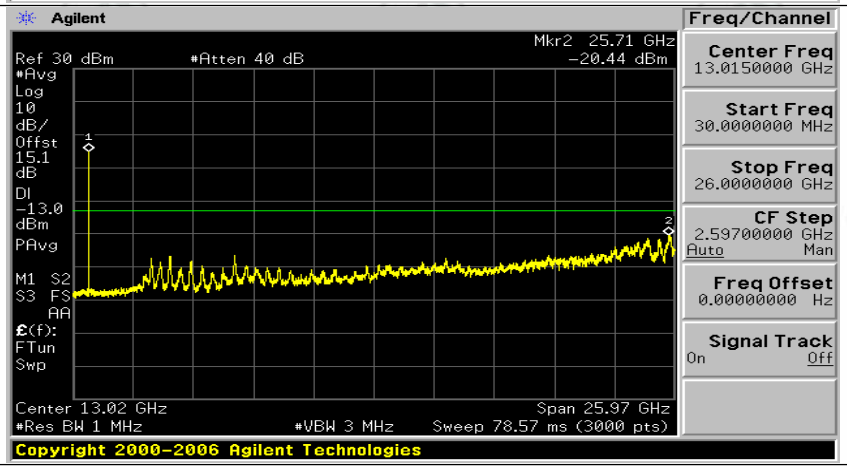
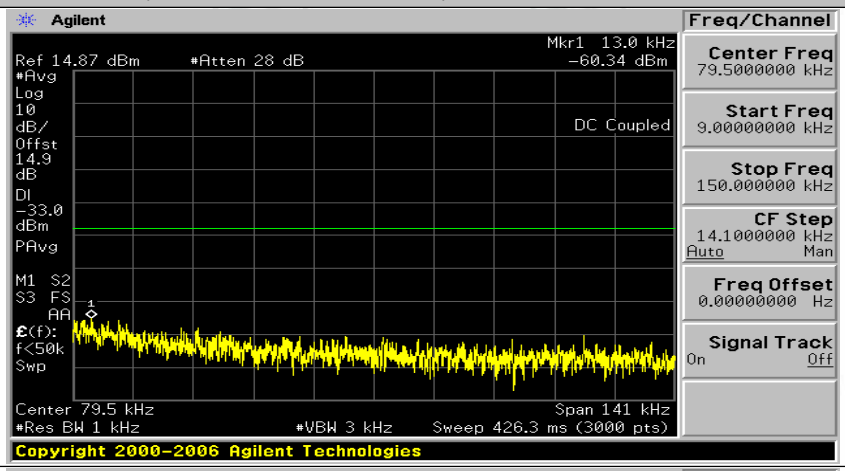
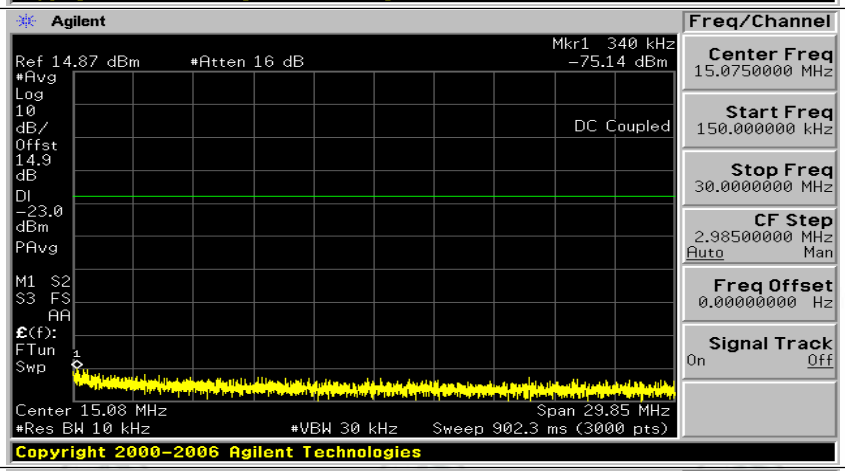




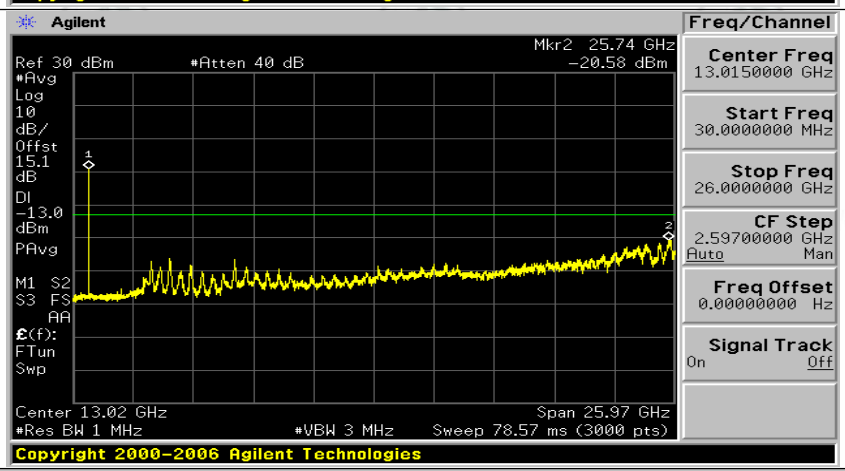
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24




(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0




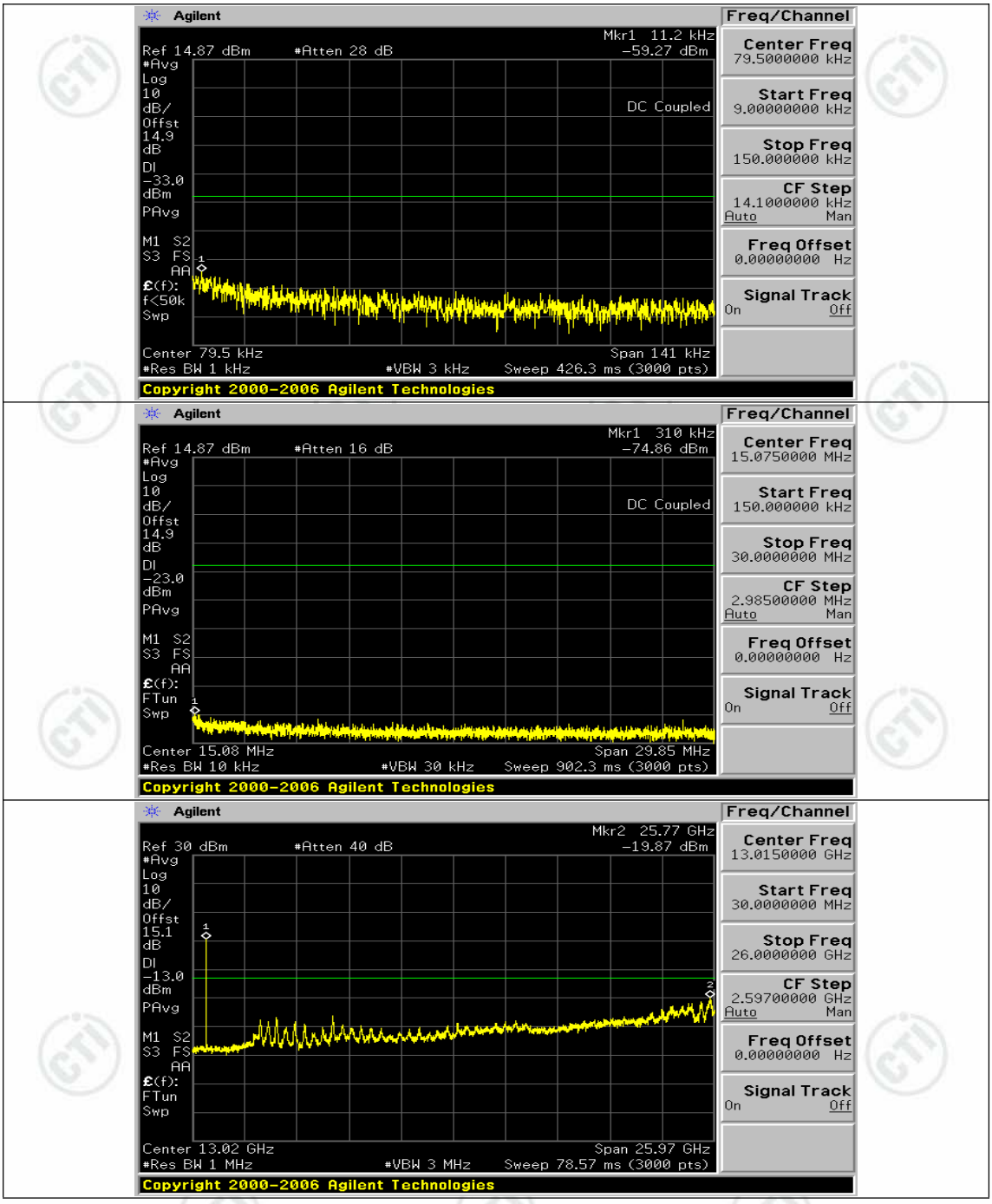
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

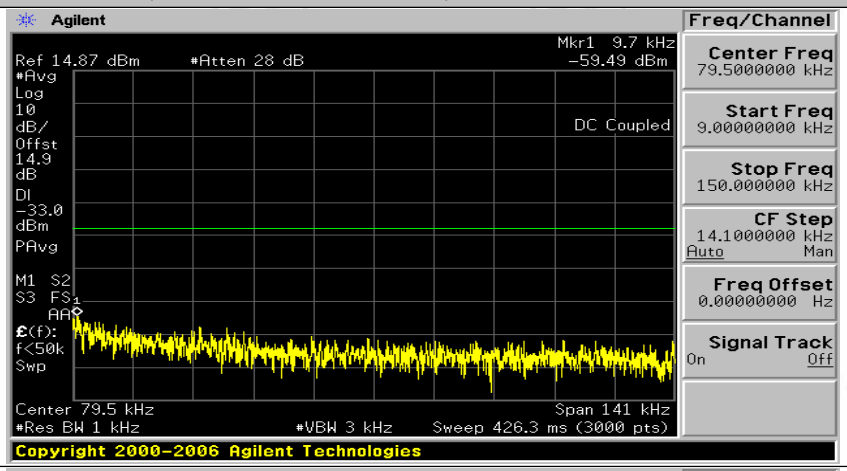
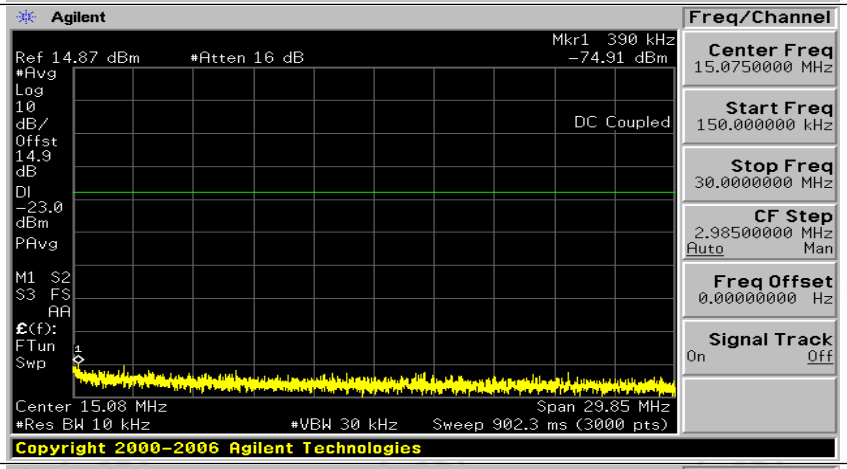
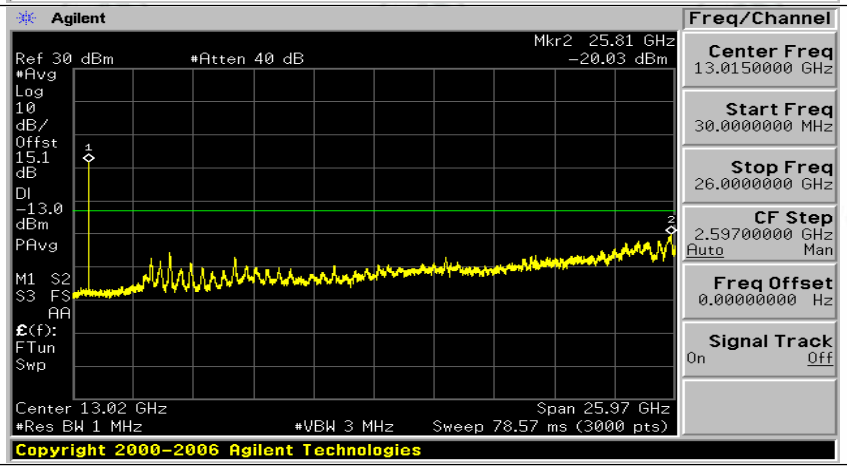


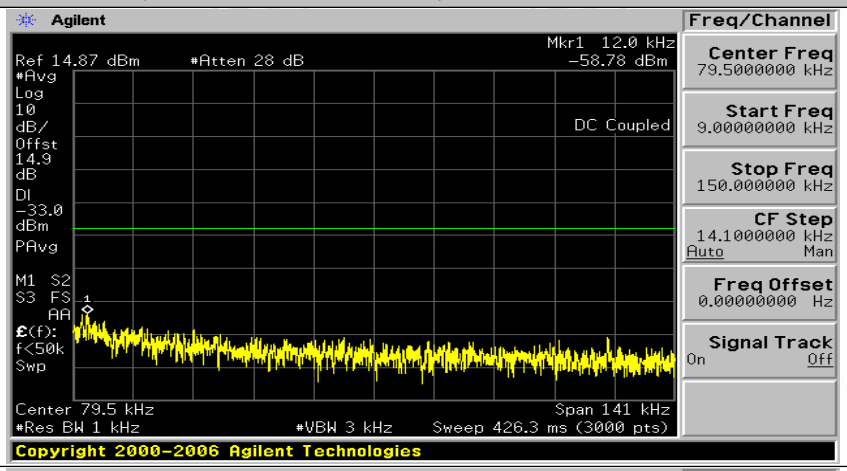
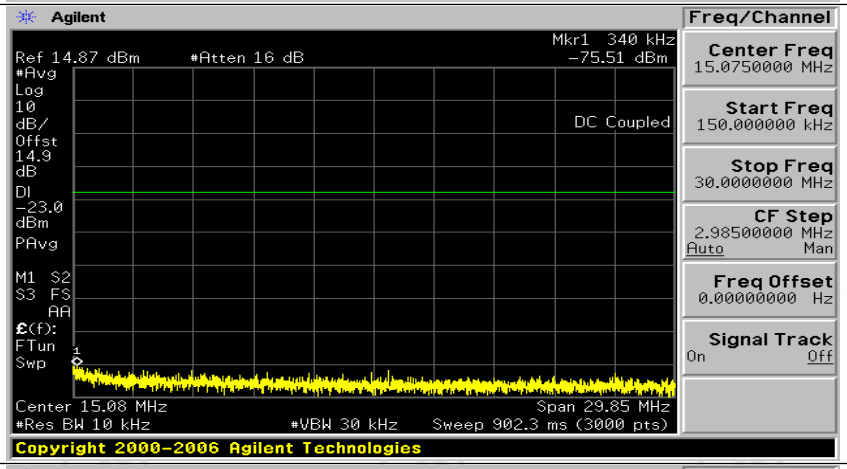
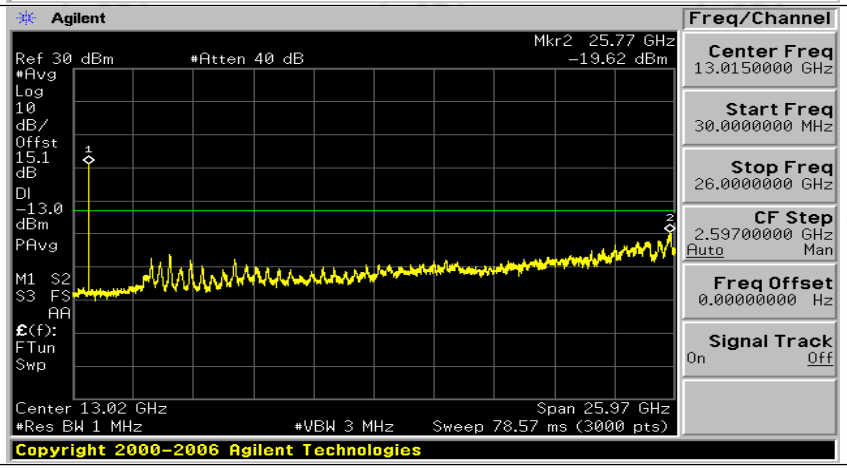


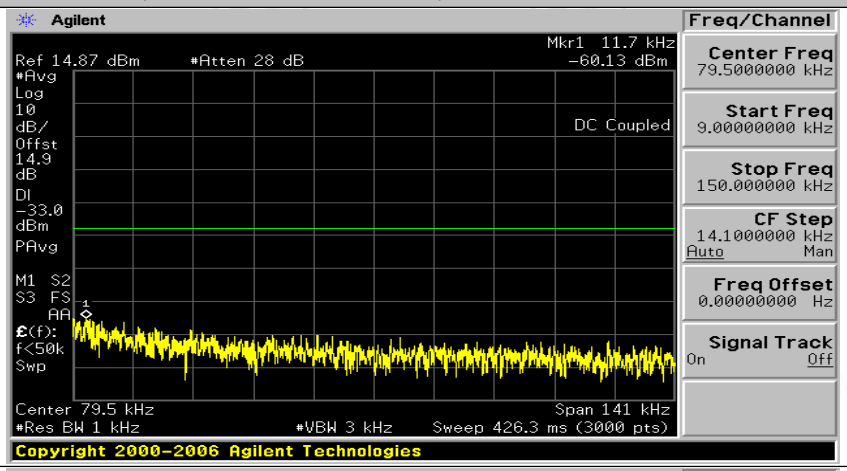
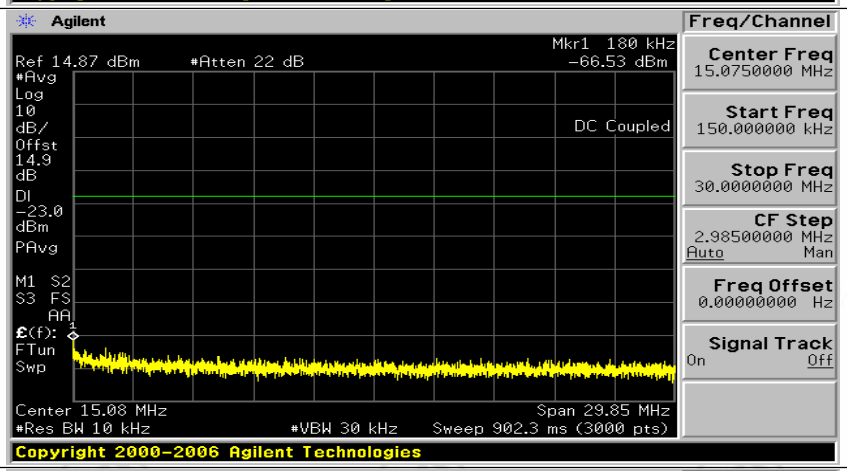
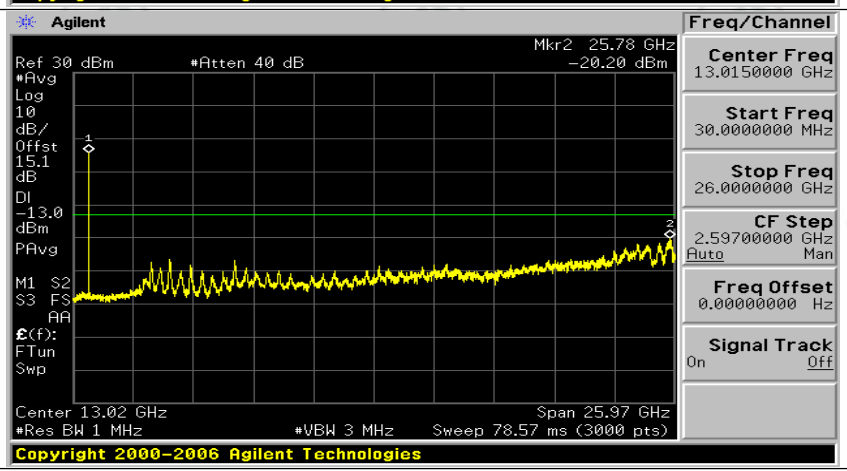


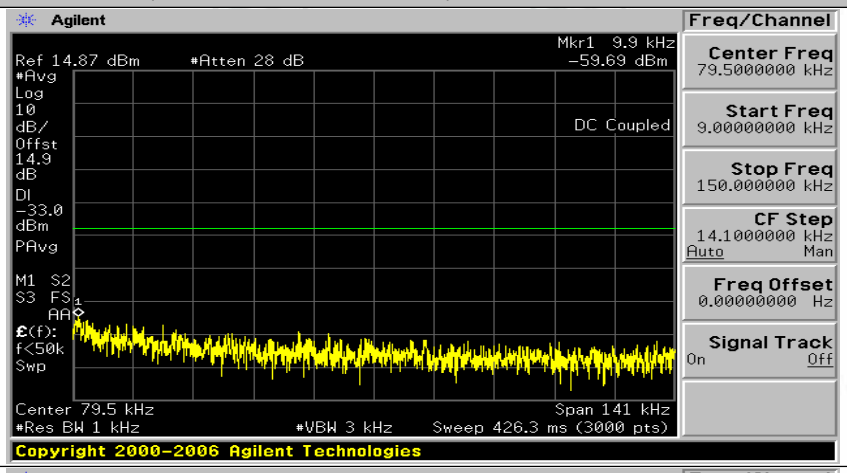
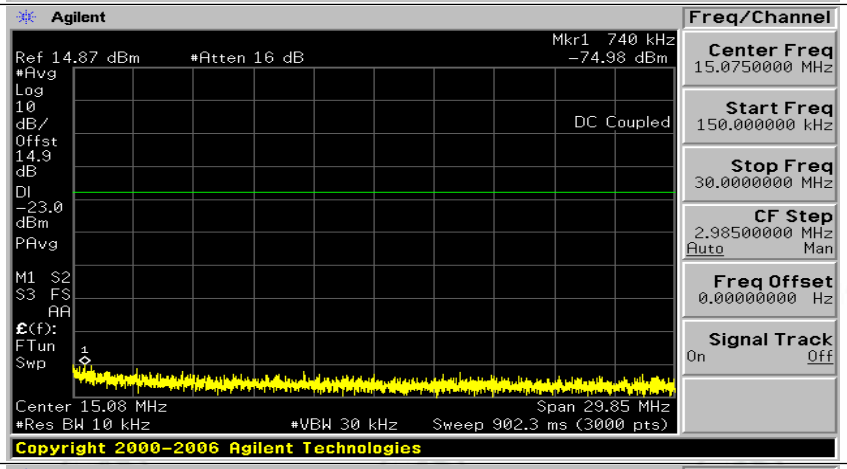
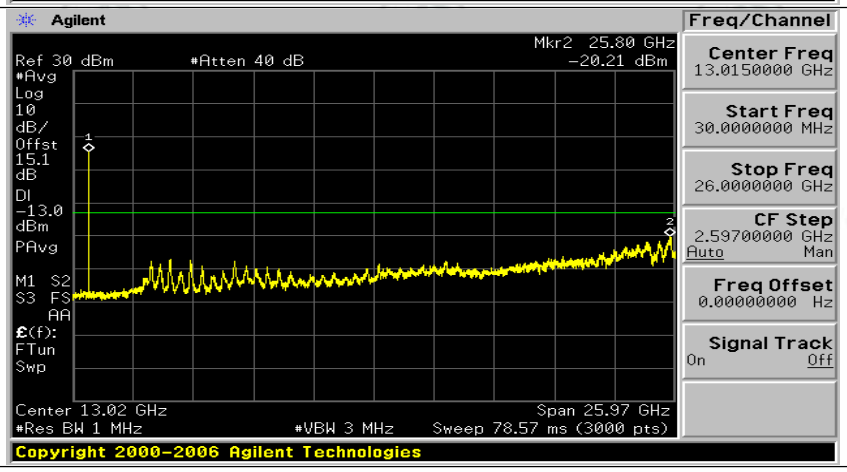
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#24

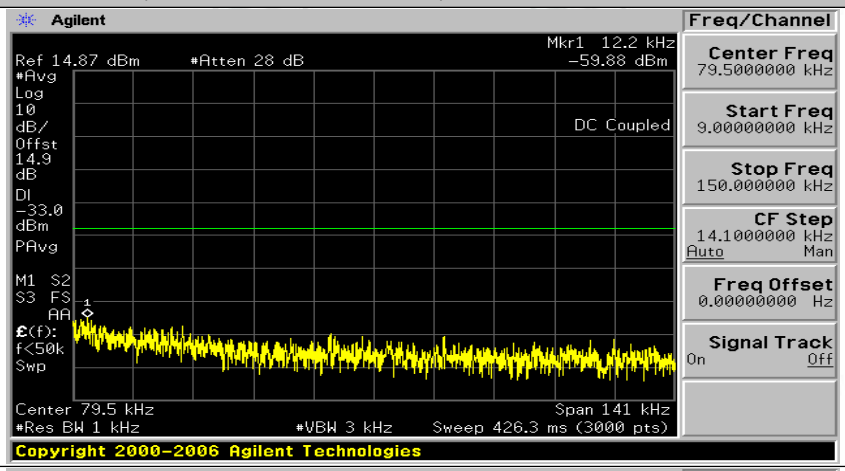
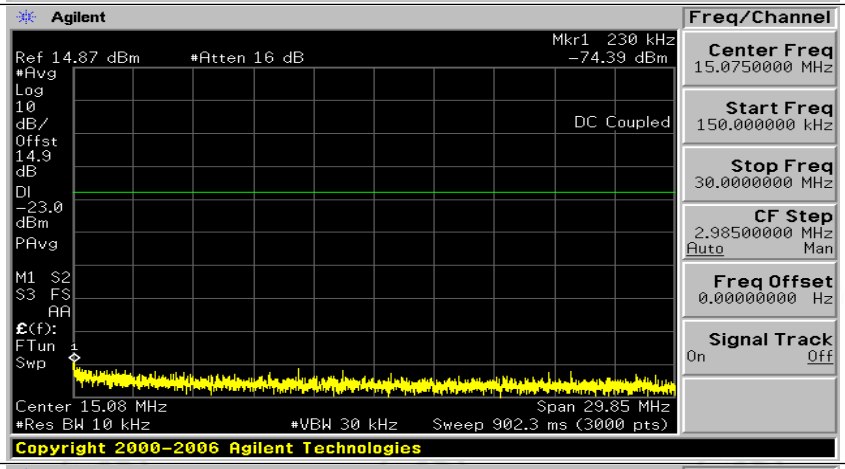
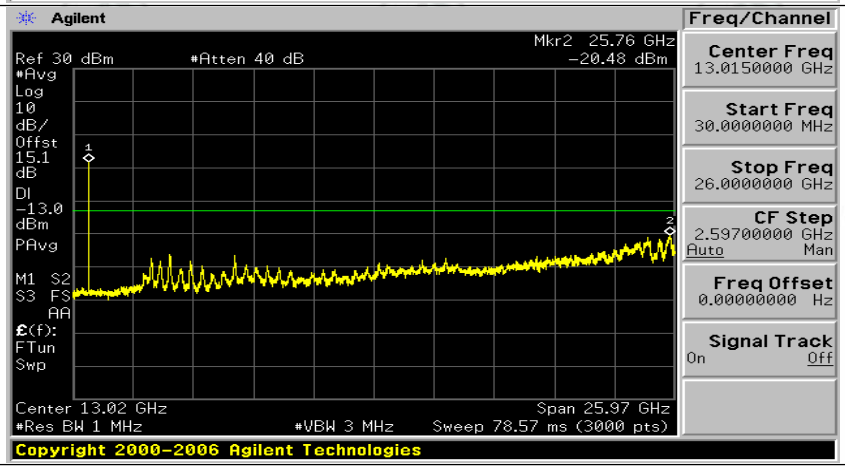

Agilent
Freq/Channel
Mkr1 11.2 kHz
Ref 14.87 dBm
#Atten 28 dB
-59.27 dBm
#Avg
Log
10
dB/
Offst
14.9
dB
Dl
-33.0
dBm
PAvg
DC Coupled
M1 S2
S3 FS
AA
£(f):
f<50k
Swp
Center 79.5 kHz
Span 141 kHz
#Res BW 1 kHz
#VBW 3 kHz
Sweep 426.3 ms (3000 pts)
Center Freq
79.5000000 kHz
Start Freq
9.00000000 kHz
Stop Freq
150.000000 kHz
CF Step
14.1000000 kHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Copyright 2000-2006 Agilent Technologies
Agilent
Freq/Channel
Mkr1 310 kHz
Ref 14.87 dBm
#Atten 16 dB
-74.86 dBm
#Avg
Log
10
dB/
Offst
14.9
dB
Dl
-23.0
dBm
PAvg
DC Coupled
M1 S2
S3 FS
AA
£(f):
FTun
Swp
Center 15.08 MHz
Span 29.85 MHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 902.3 ms (3000 pts)
Center Freq
15.0750000 MHz
Start Freq
150.000000 kHz
Stop Freq
30.0000000 MHz
CF Step
2.98500000 MHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Copyright 2000-2006 Agilent Technologies
Agilent
Freq/Channel
Mkr2 25.77 GHz
Ref 30 dBm
#Atten 40 dB
-19.87 dBm
#Avg
Log
10
dB/
Offst
15.1
dB
Dl
-13.0
dBm
PAvg
M1 S2
S3 FS
AA
£(f):
FTun
Swp
Center 13.02 GHz
Span 25.97 GHz
#Res BW 1 MHz
#VBW 3 MHz
Sweep 78.57 ms (3000 pts)
Center Freq
13.0150000 GHz
Start Freq
30.0000000 MHz
Stop Freq
26.0000000 GHz
CF Step
2.59700000 GHz
Auto Man
Freq Offset
0.00000000 Hz
Signal Track
On Off
Copyright 2000-2006 Agilent Technologies

(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0




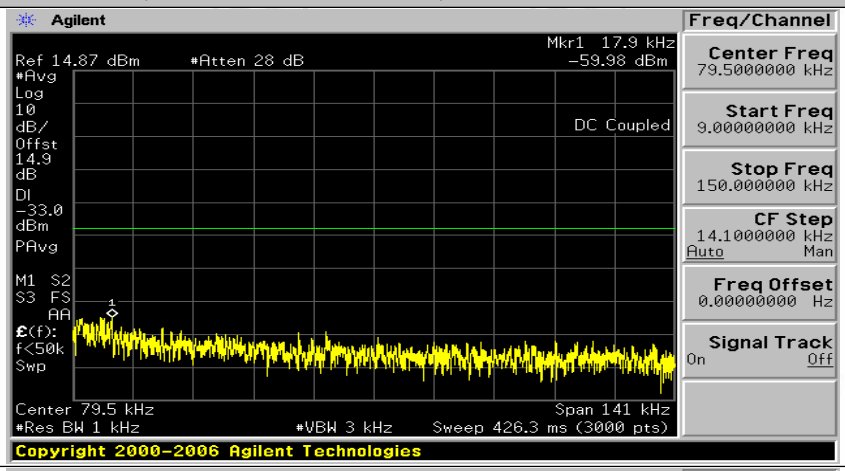
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12




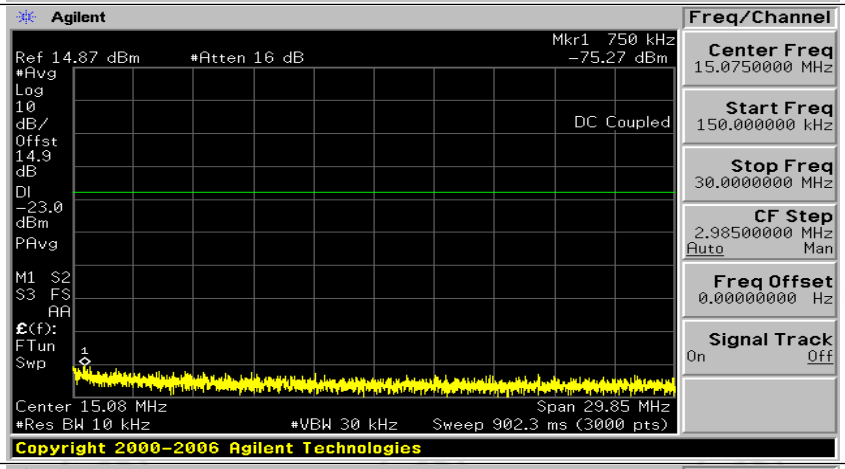
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#24




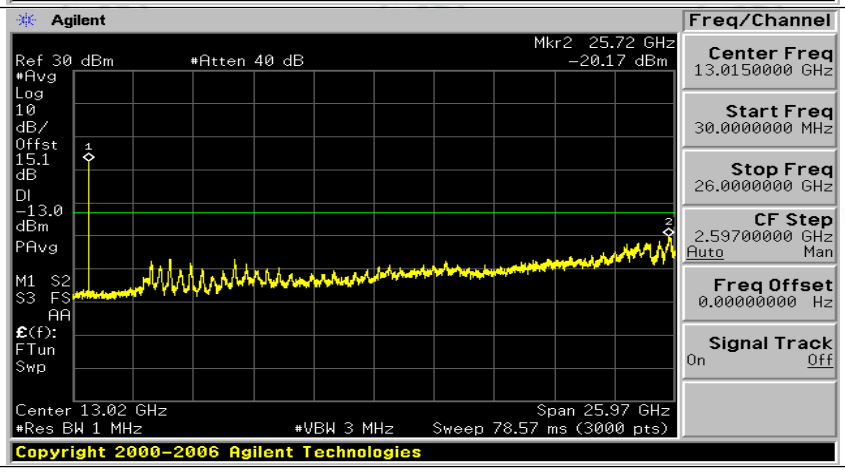
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0




(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12




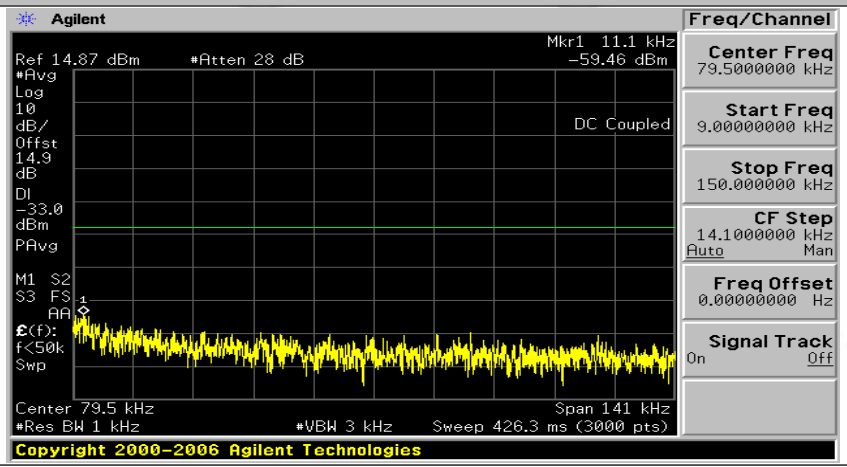
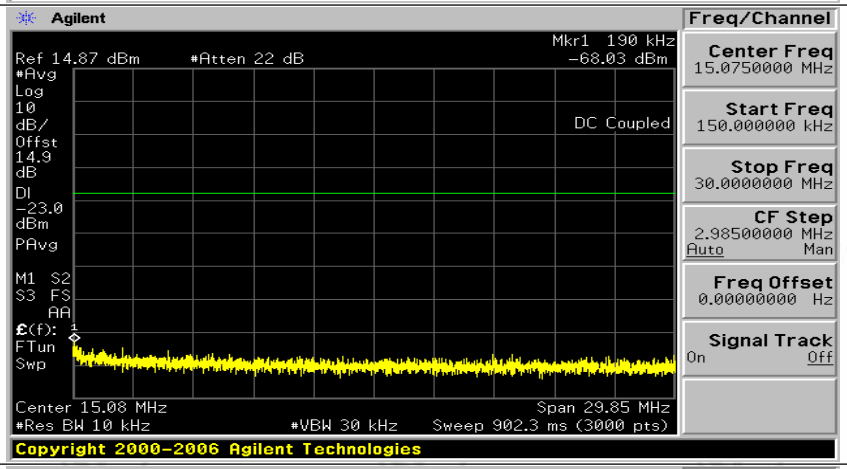
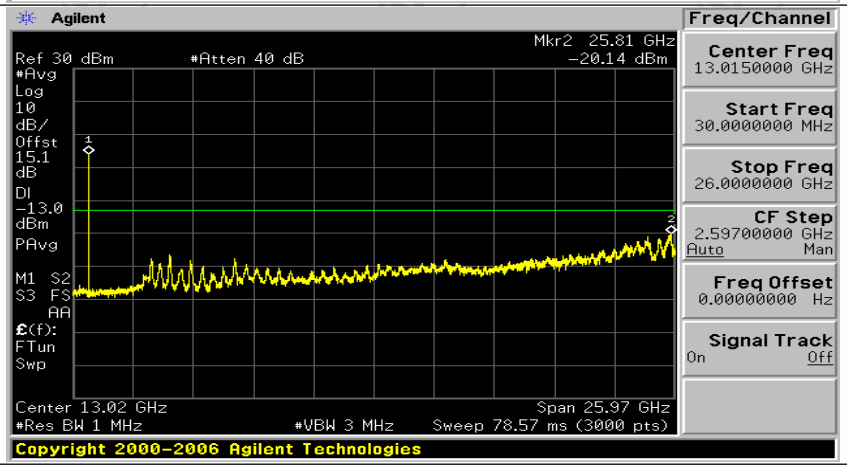
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24







Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0




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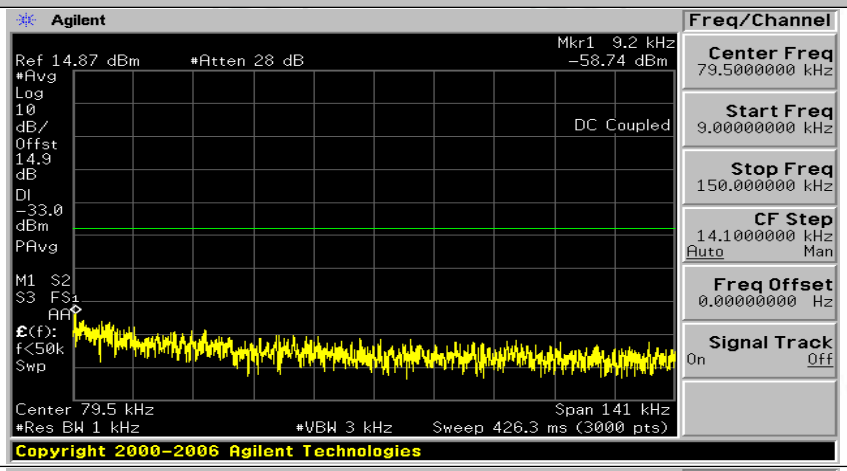
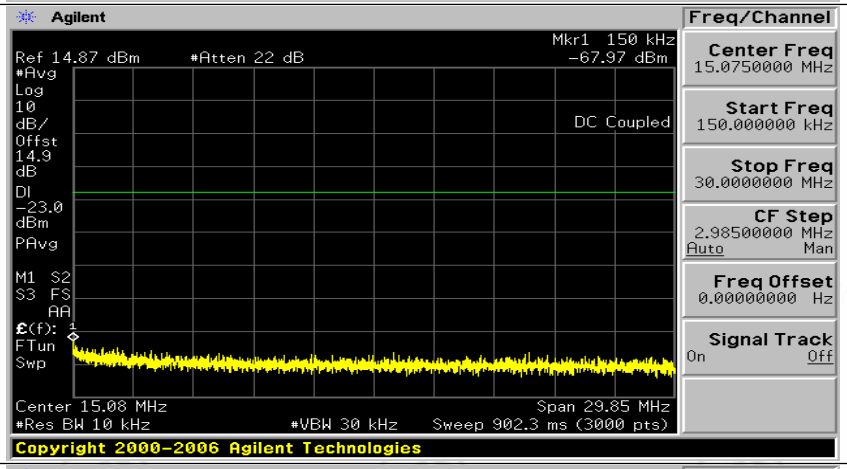
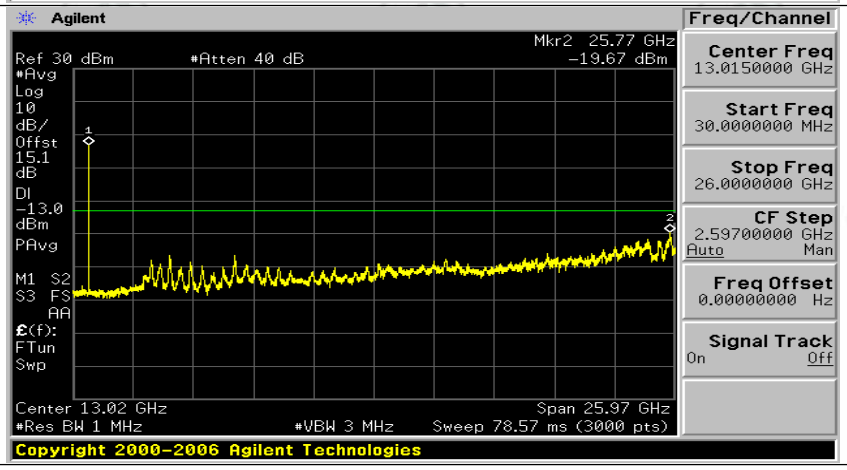

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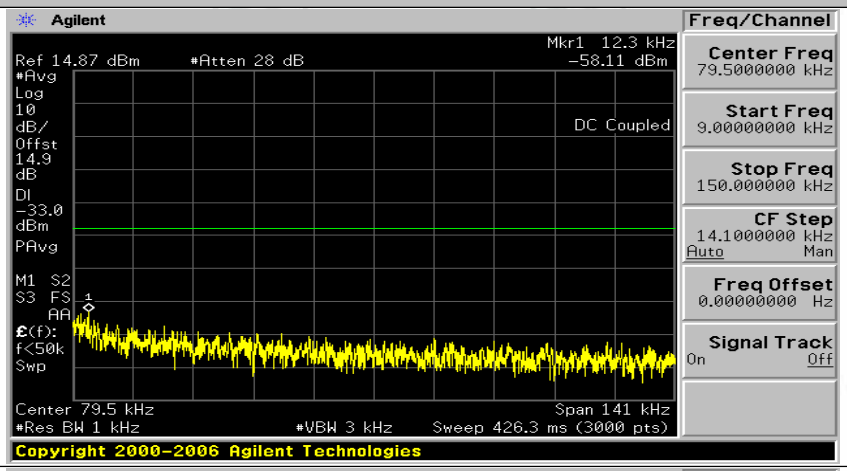
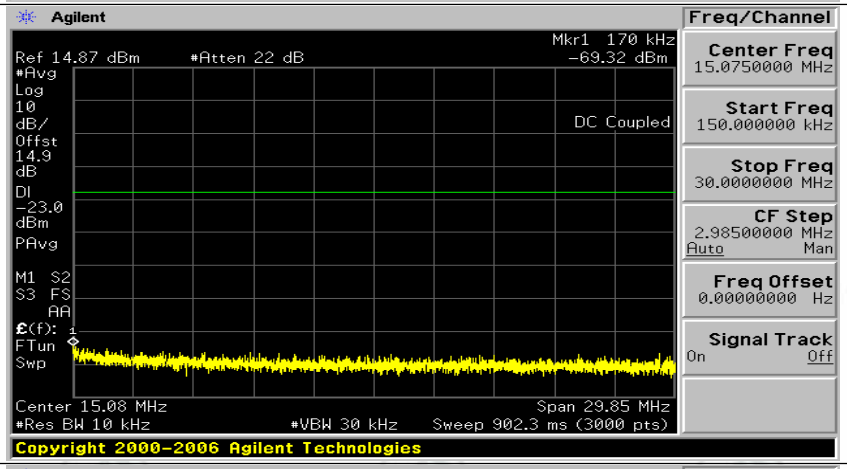
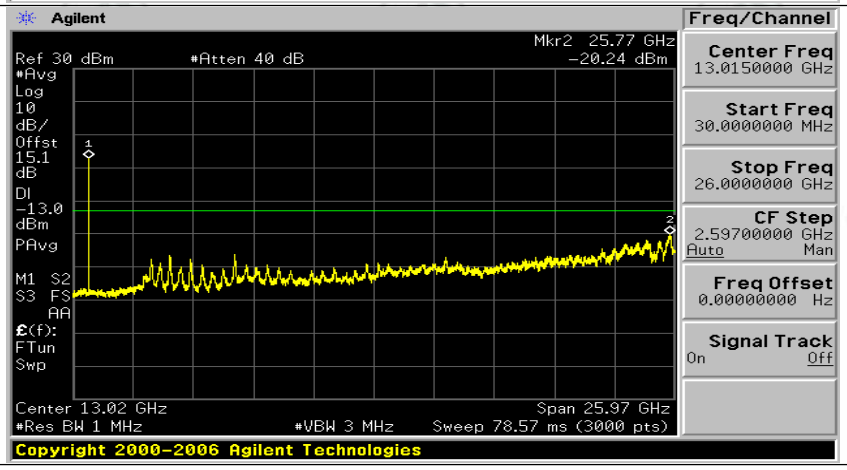

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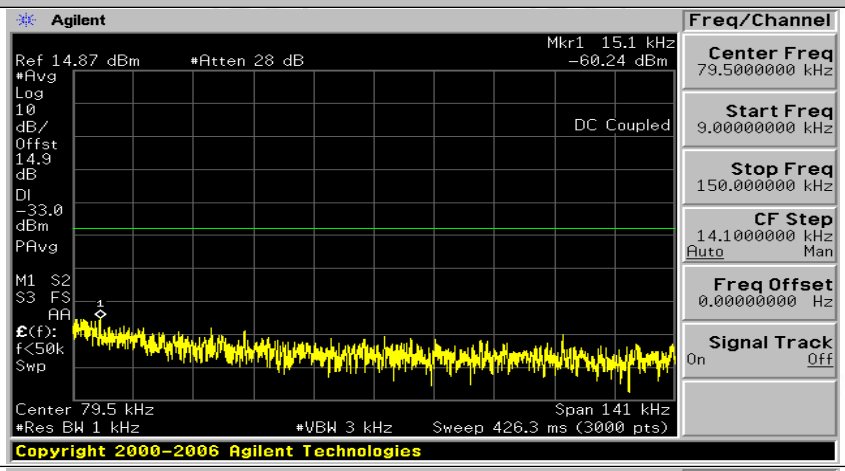
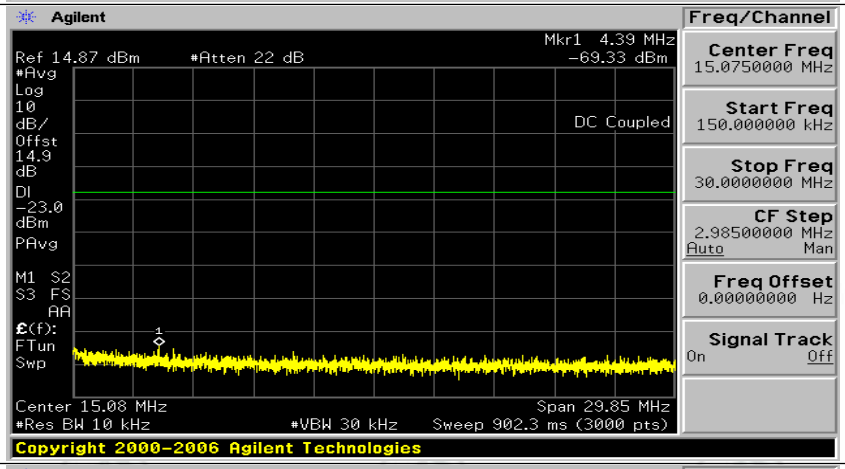
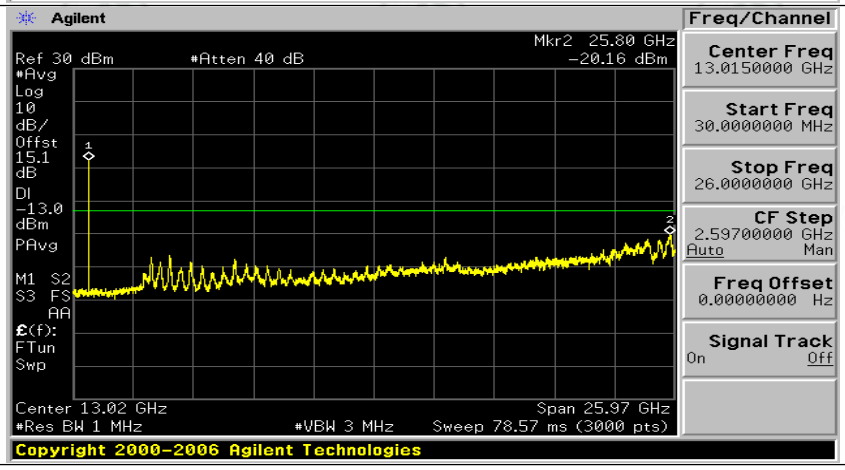

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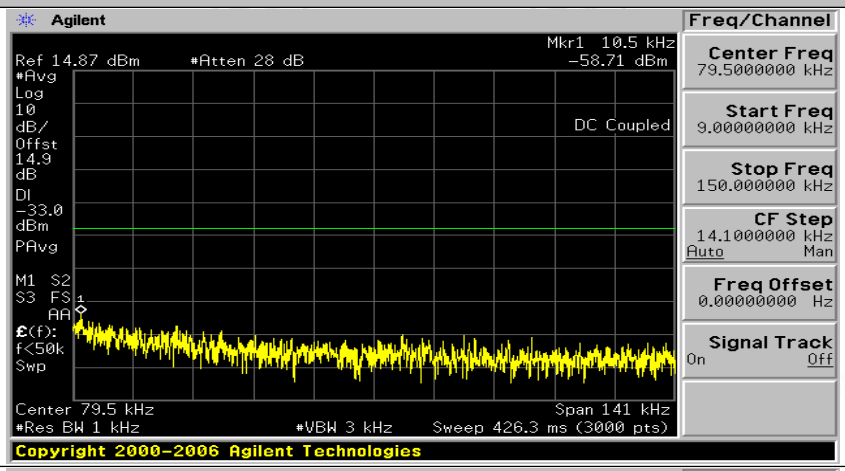
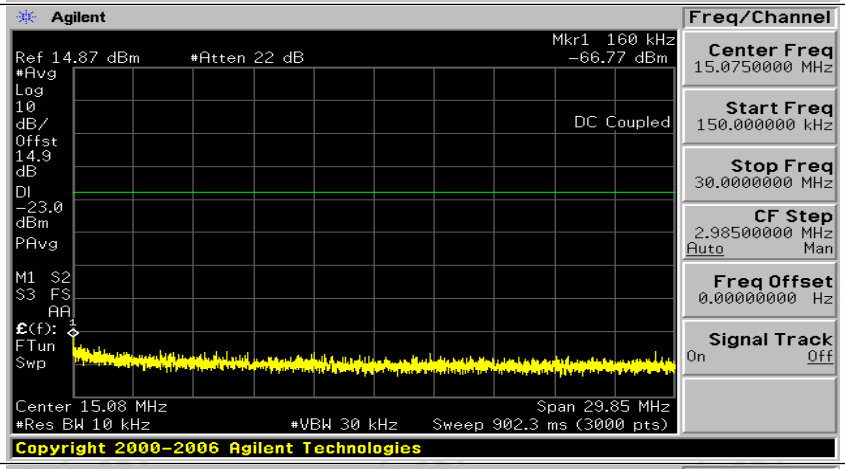
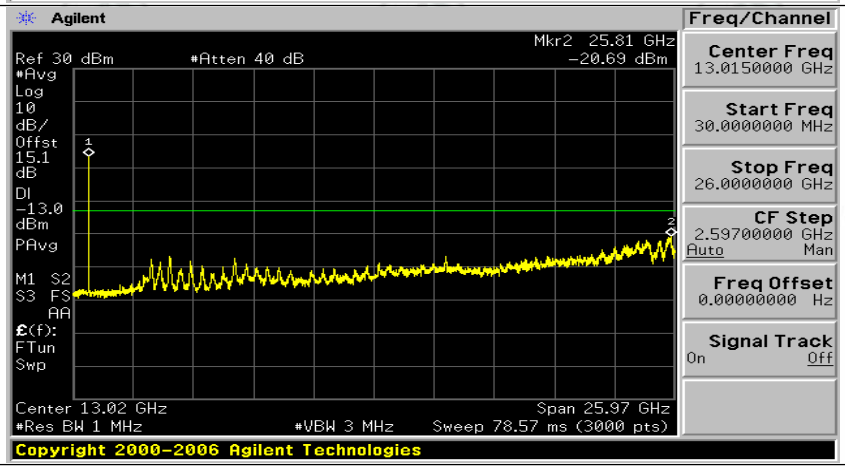

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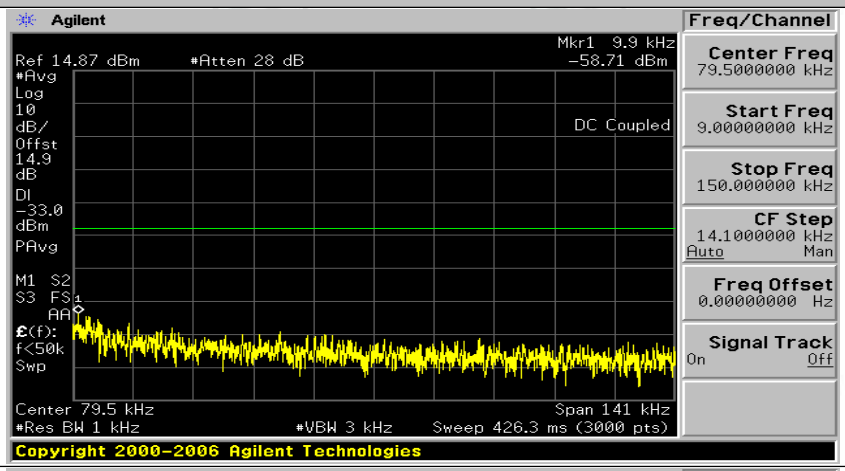
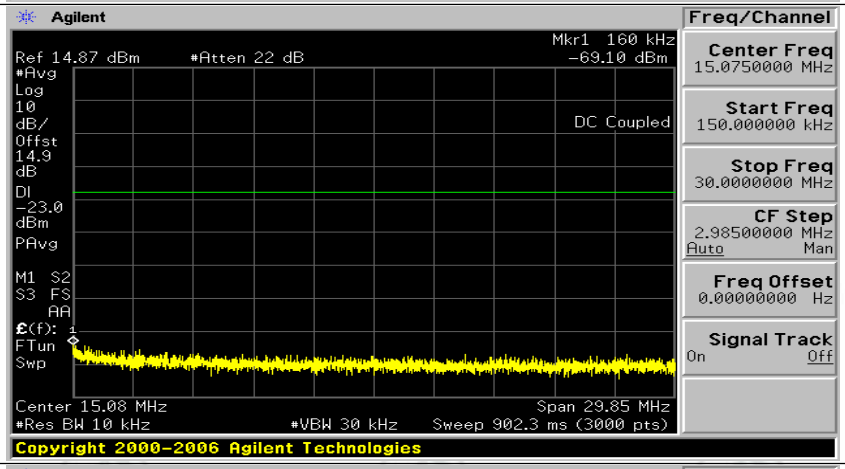
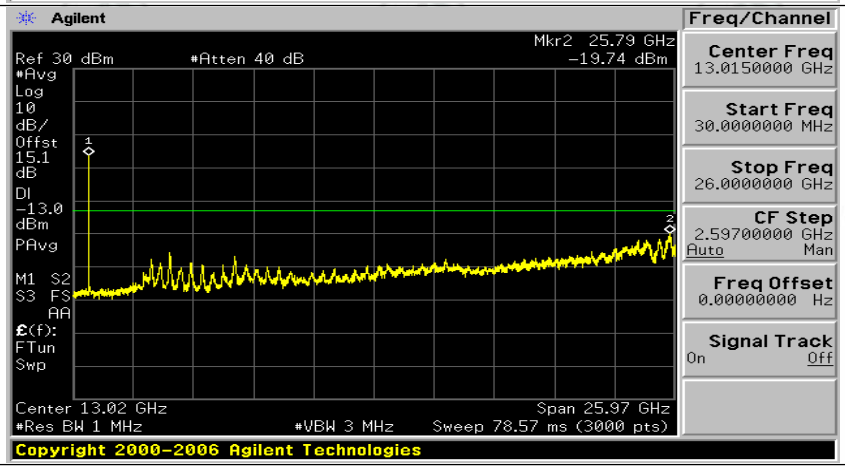

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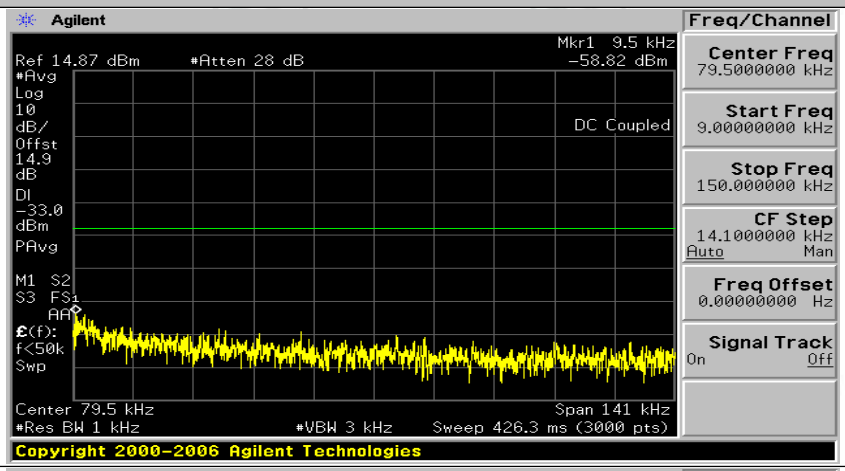
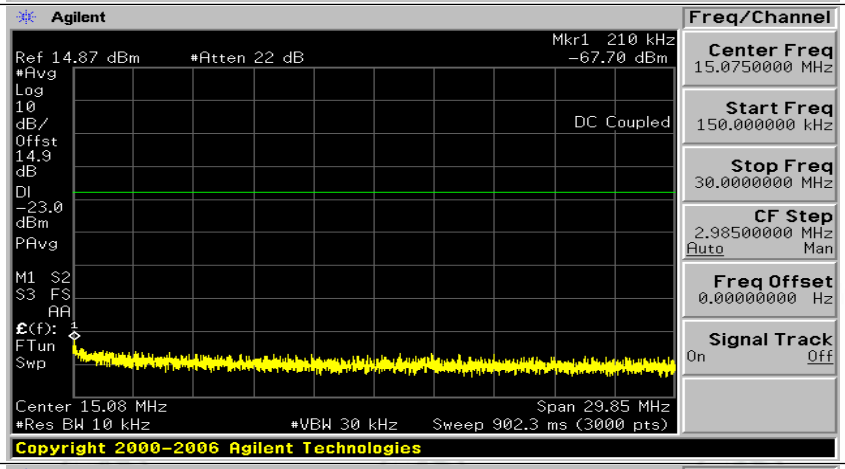
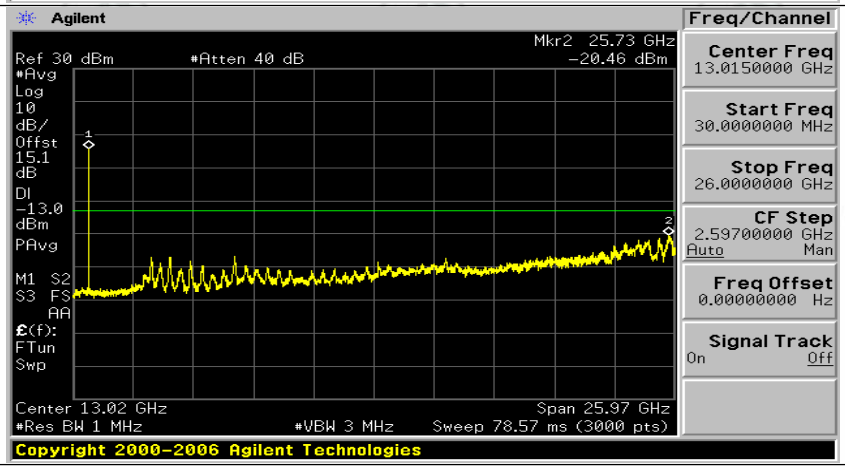

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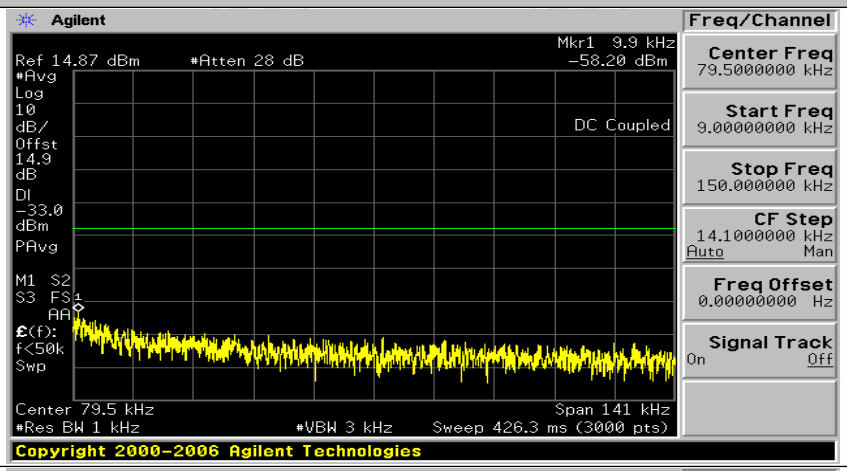
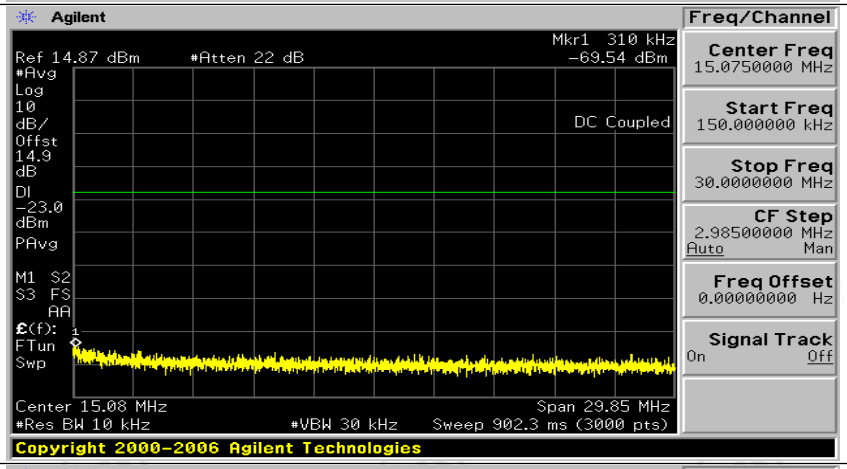
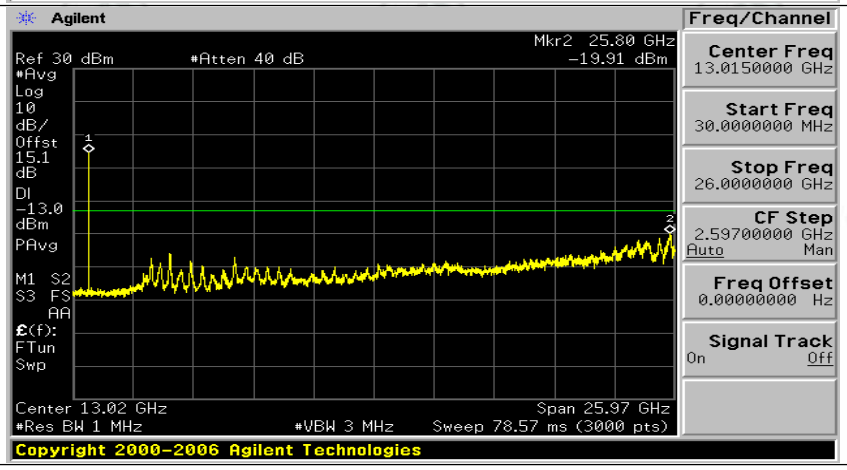

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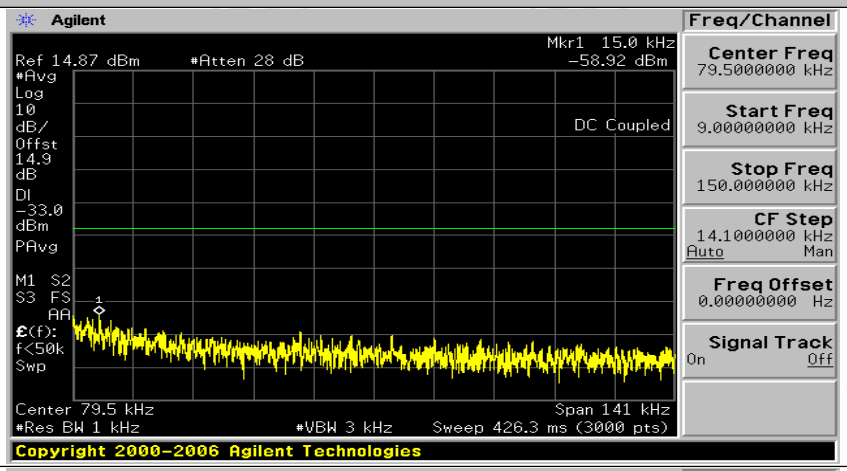
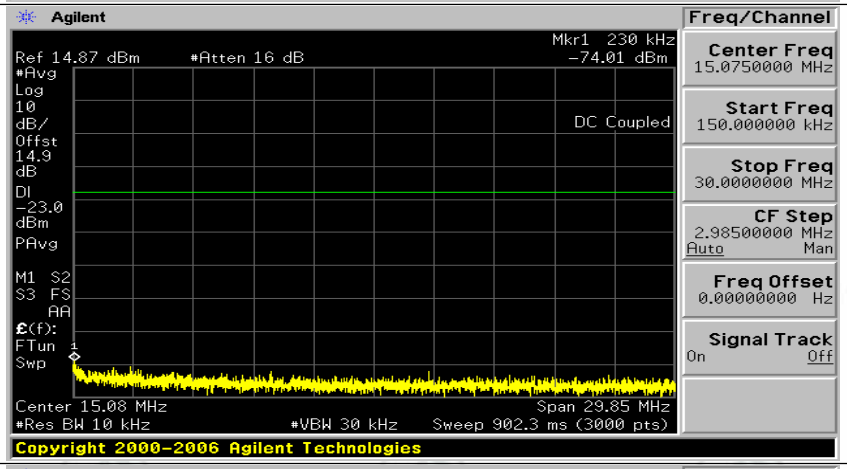
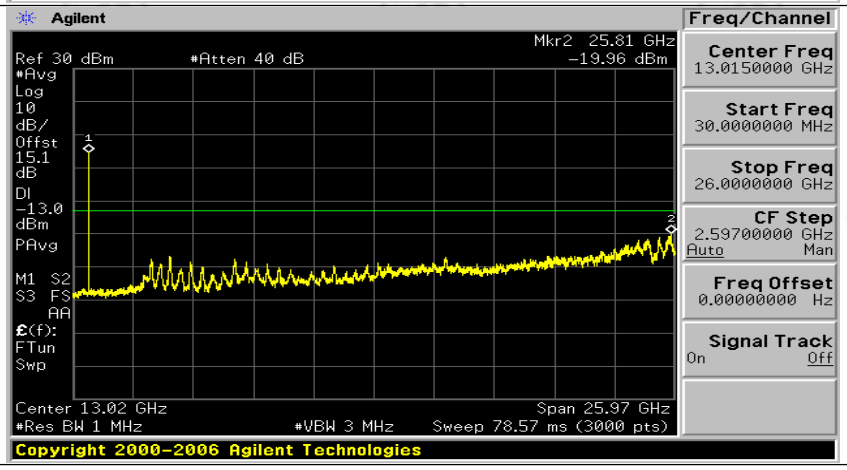

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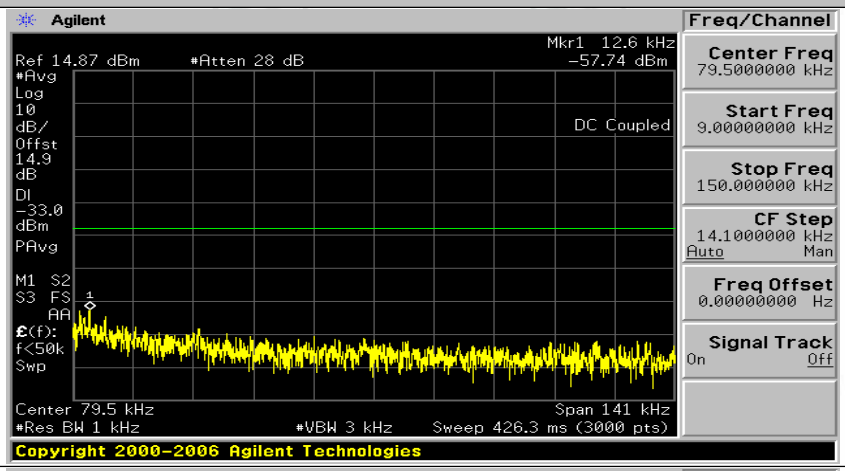
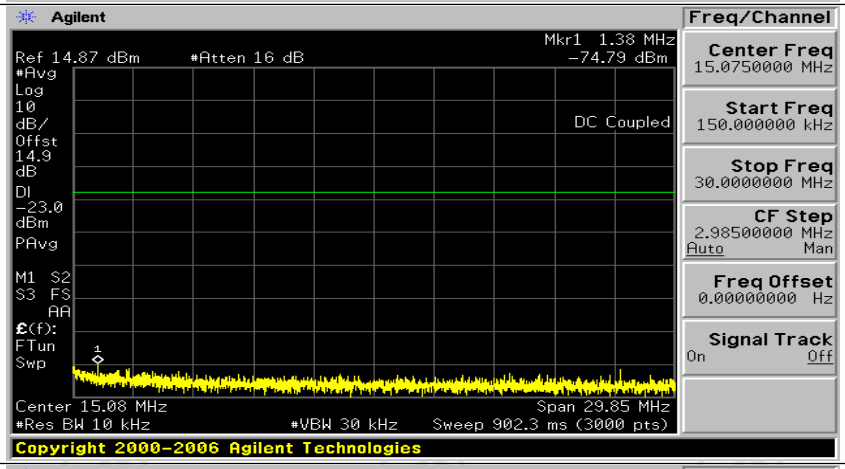
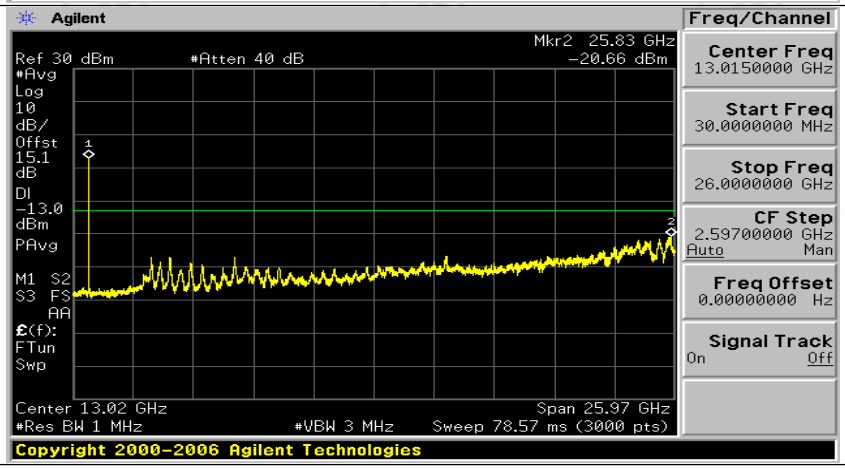

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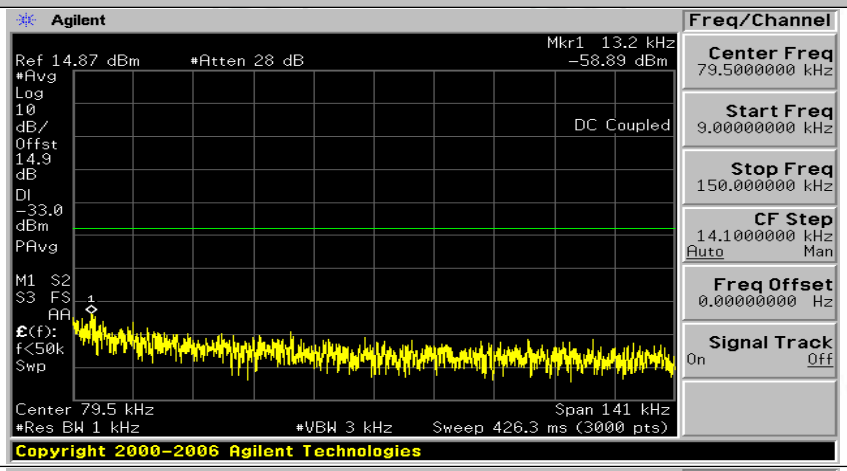
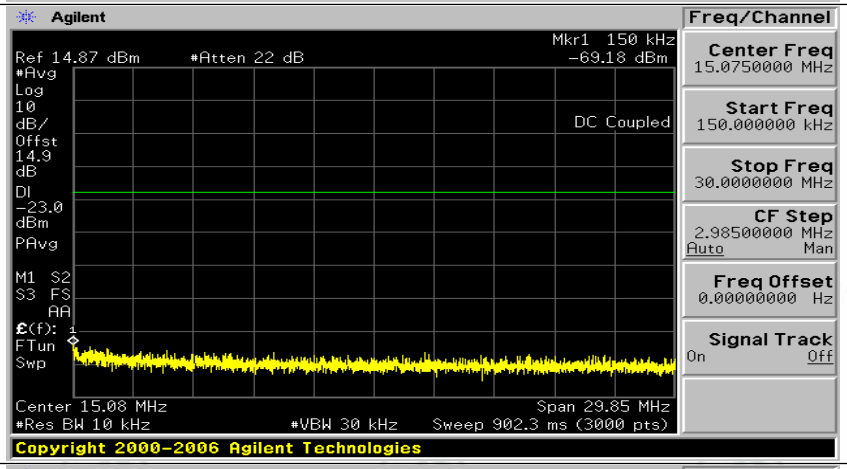
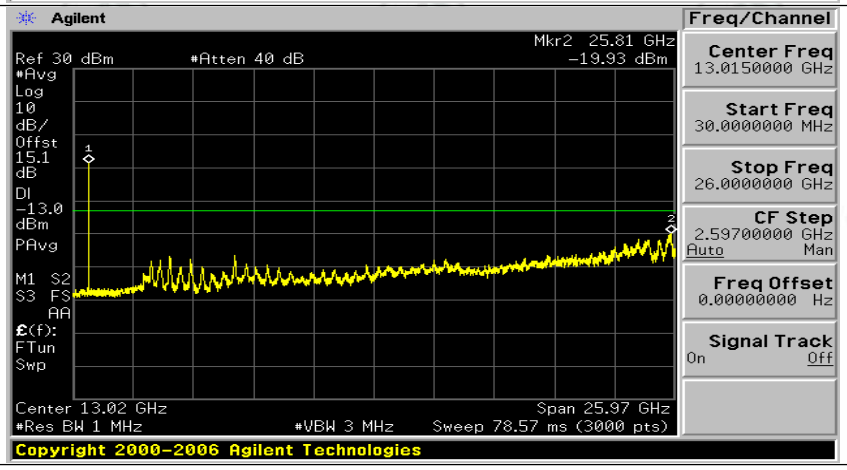

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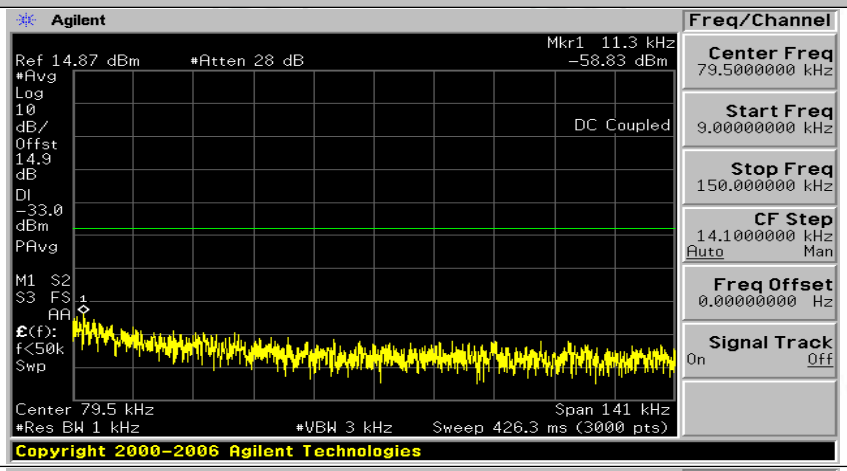
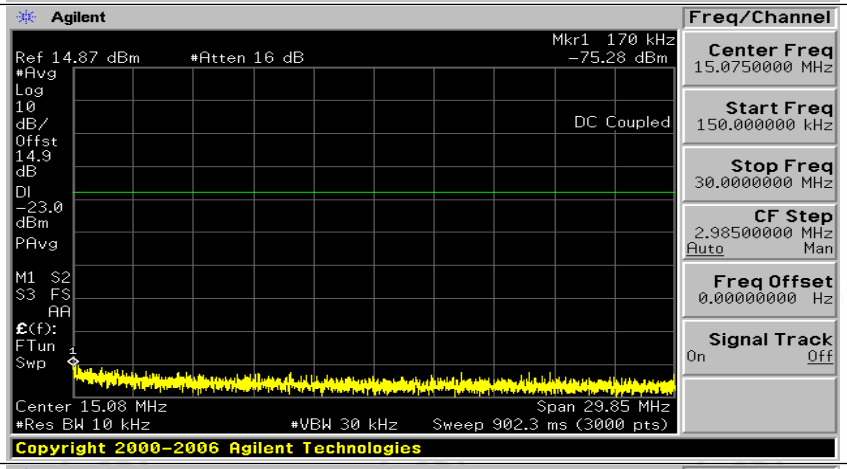
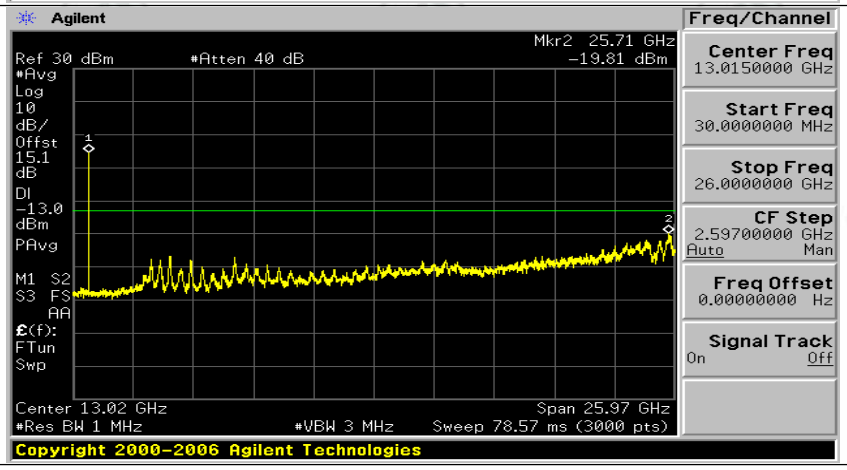

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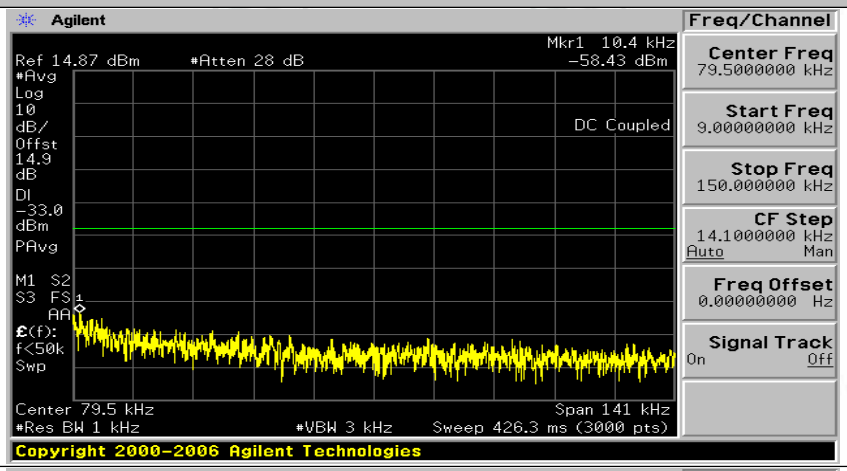
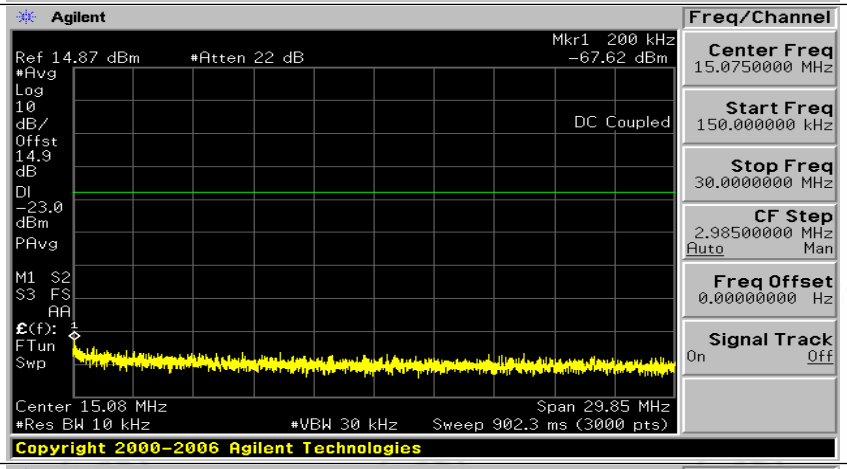
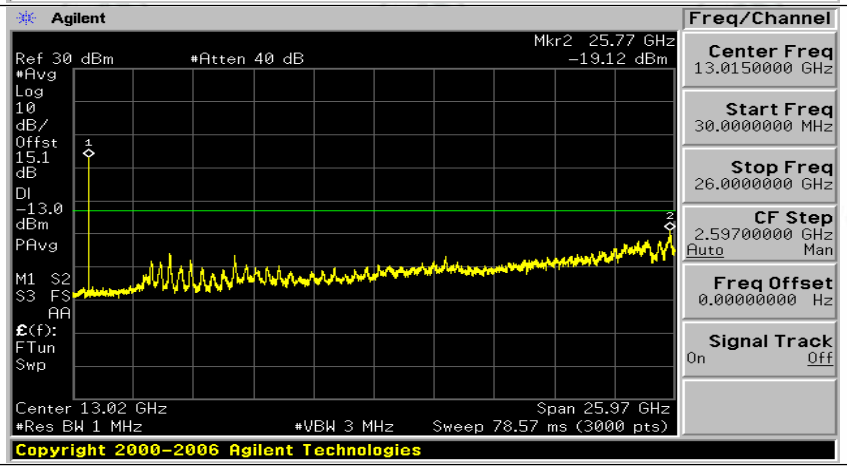
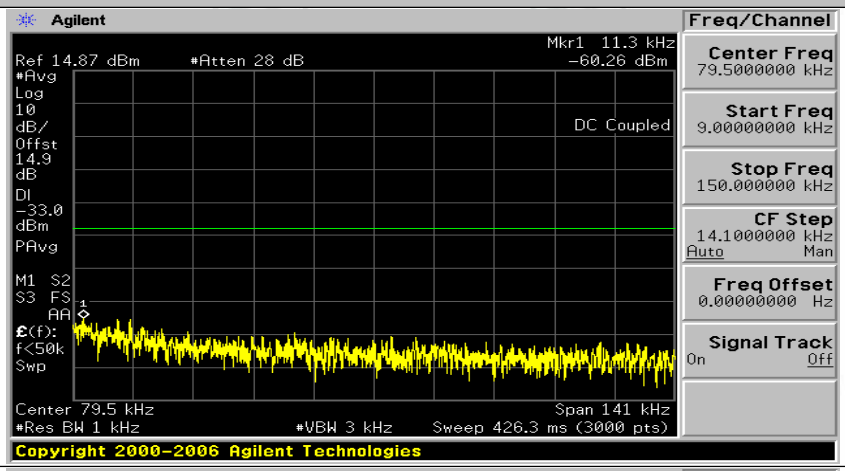
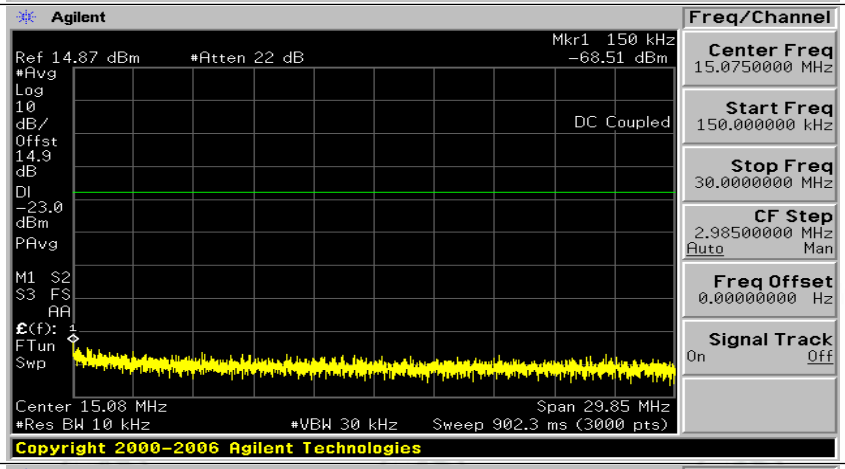
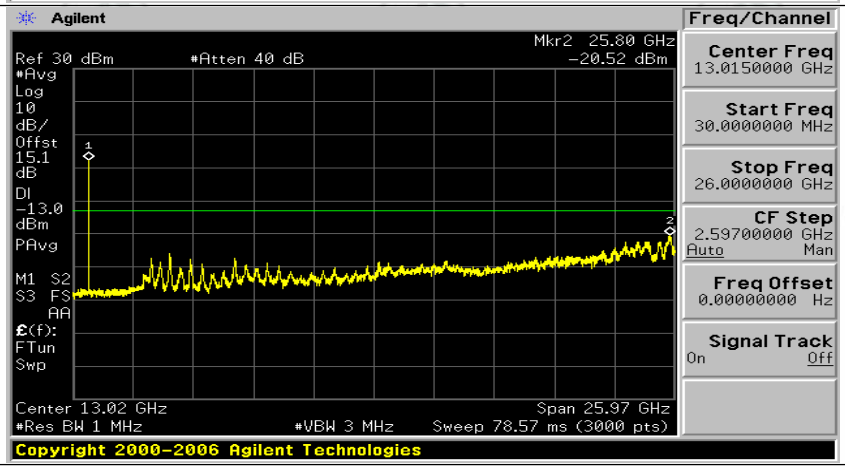
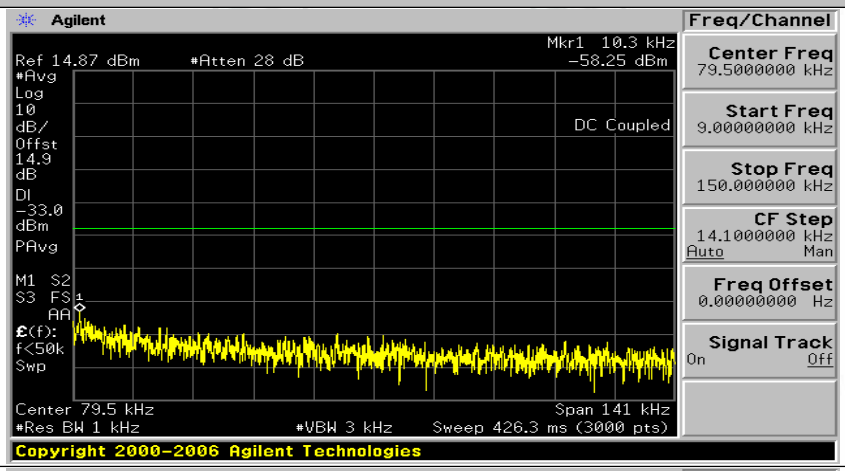
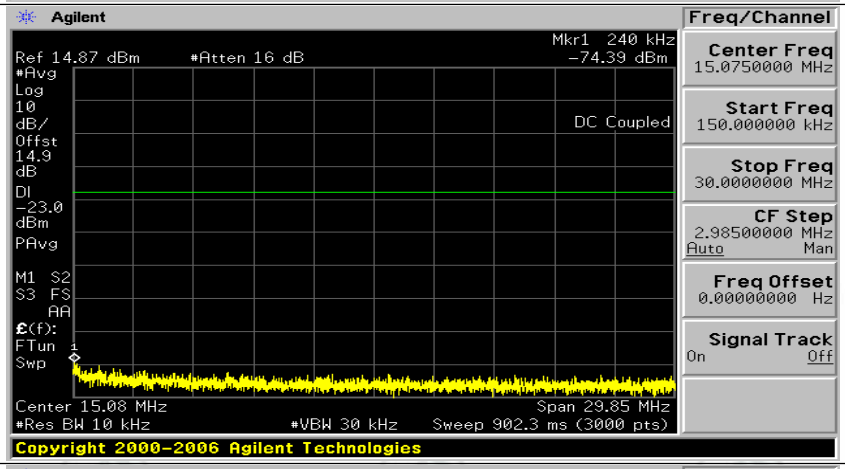
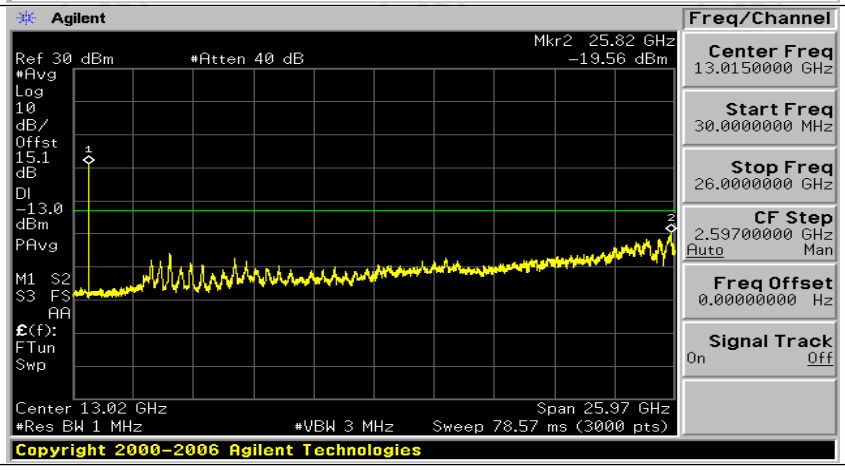




Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24




Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#49




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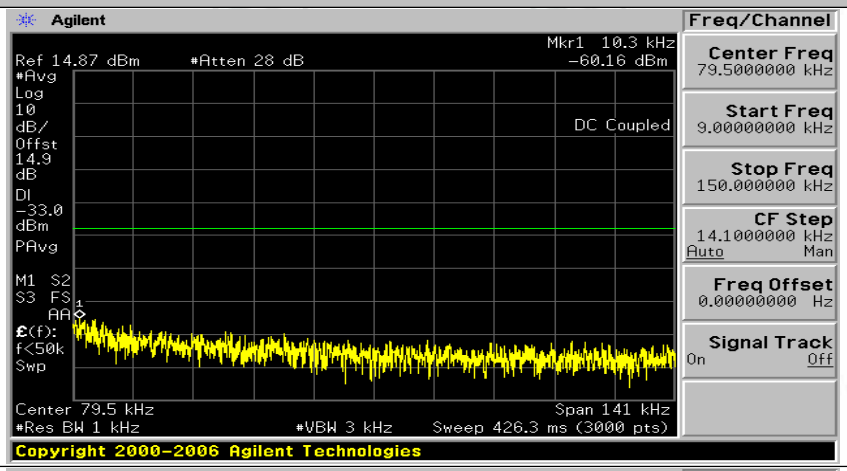
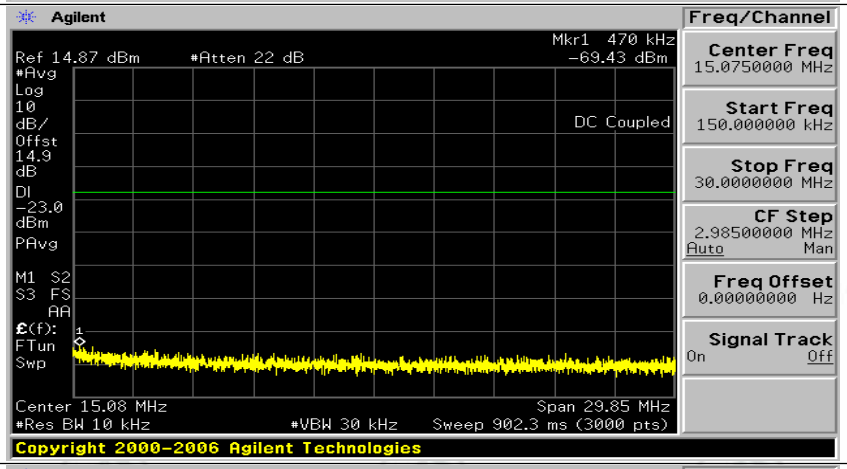
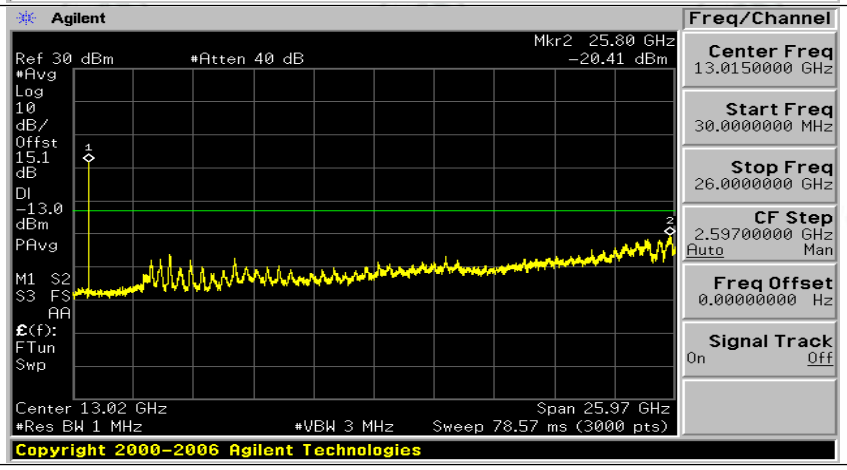
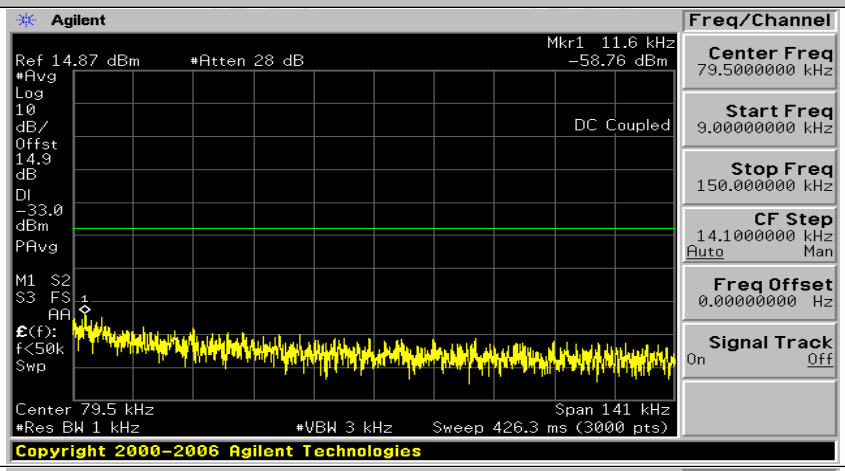
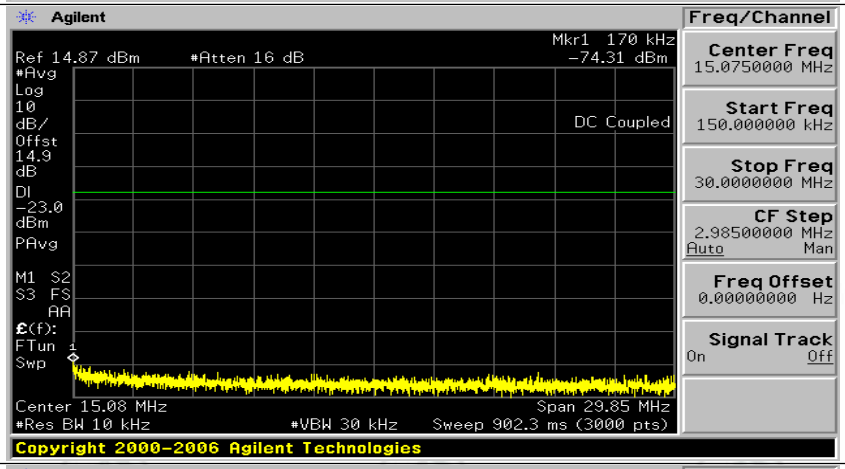
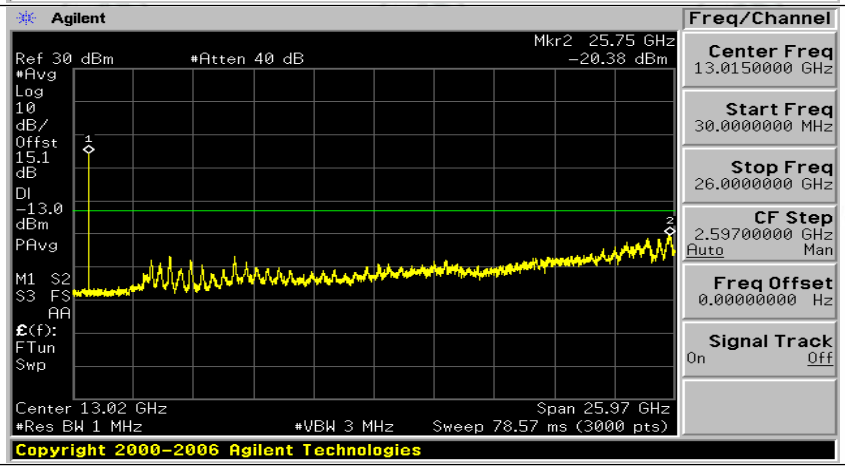
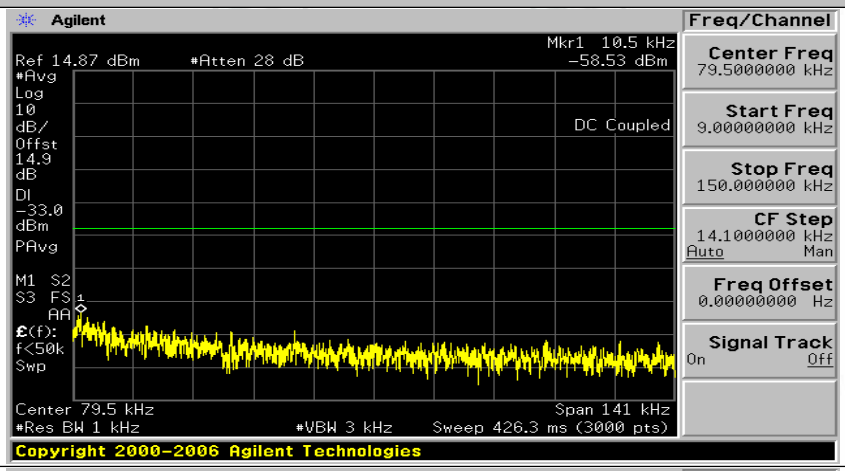
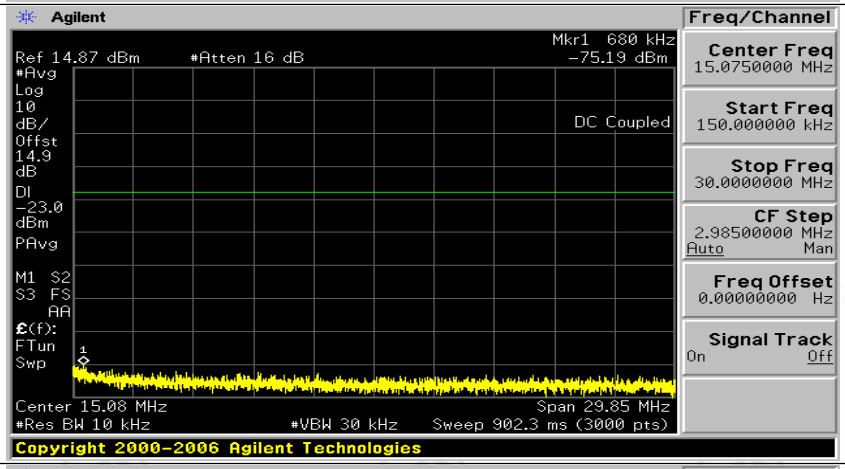
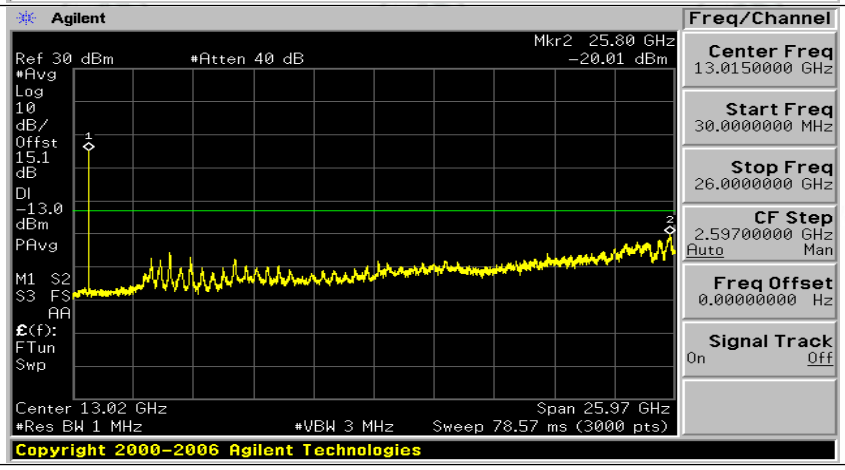




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24




Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49




Appendix F: Frequency Stability

Test Result

(Remark: Beacuse physical dimensions of bicycle , The stabilizing portion is chosed for test. stabilizing portion is powered by DC12V, VL is 10.2V, VN is 12V, VH is 13.8V for variation of primary supply voltage)

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-1.89	-0.002673	± 2.5	PASS
		VN	TN	-1.62	-0.002288	± 2.5	PASS
		VH	TN	-0.90	-0.001276	± 2.5	PASS
	MCH	VL	TN	0.00	0.000000	± 2.5	PASS
		VN	TN	-1.26	-0.001773	± 2.5	PASS
		VH	TN	-0.30	-0.000423	± 2.5	PASS
	HCH	VL	TN	-0.89	-0.001243	± 2.5	PASS
		VN	TN	-0.89	-0.001243	± 2.5	PASS
		VH	TN	-0.92	-0.001283	± 2.5	PASS
16QAM	LCH	VL	TN	0.09	0.000121	± 2.5	PASS
		VN	TN	-1.04	-0.001478	± 2.5	PASS
		VH	TN	-1.86	-0.002632	± 2.5	PASS
	MCH	VL	TN	0.62	0.000866	± 2.5	PASS
		VN	TN	0.26	0.000363	± 2.5	PASS
		VH	TN	0.06	0.000081	± 2.5	PASS
	HCH	VL	TN	-0.87	-0.001223	± 2.5	PASS
		VN	TN	-1.29	-0.001804	± 2.5	PASS
		VH	TN	-1.14	-0.001604	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.39	-0.000547	± 2.5	PASS
		VN	-20	-0.63	-0.000891	± 2.5	PASS
		VN	-10	-0.49	-0.000688	± 2.5	PASS
		VN	0	-0.63	-0.000891	± 2.5	PASS
		VN	10	-1.03	-0.001458	± 2.5	PASS
		VN	20	0.64	0.000911	± 2.5	PASS
		VN	30	0.53	0.000749	± 2.5	PASS
		VN	40	-0.44	-0.000628	± 2.5	PASS
		VN	50	-0.64	-0.000911	± 2.5	PASS
	MCH	VN	-30	-0.70	-0.000987	± 2.5	PASS
		VN	-20	-0.11	-0.000161	± 2.5	PASS
		VN	-10	-2.75	-0.003868	± 2.5	PASS
		VN	0	-1.57	-0.002216	± 2.5	PASS
		VN	10	-1.52	-0.002136	± 2.5	PASS
		VN	20	-0.34	-0.000484	± 2.5	PASS

		VN	30	-1.69	-0.002377	± 2.5	PASS
		VN	40	-1.62	-0.002277	± 2.5	PASS
		VN	50	-1.09	-0.001531	± 2.5	PASS
	HCH	VN	-30	-2.03	-0.002847	± 2.5	PASS
		VN	-20	-1.17	-0.001644	± 2.5	PASS
		VN	-10	-0.51	-0.000722	± 2.5	PASS
		VN	0	-0.97	-0.001363	± 2.5	PASS
		VN	10	-0.24	-0.000341	± 2.5	PASS
		VN	20	-1.73	-0.002426	± 2.5	PASS
		VN	30	-1.23	-0.001724	± 2.5	PASS
		VN	40	-1.67	-0.002346	± 2.5	PASS
		VN	50	0.27	0.000381	± 2.5	PASS
16QAM	LCH	VN	-30	-1.65	-0.002329	± 2.5	PASS
		VN	-20	-2.42	-0.003422	± 2.5	PASS
		VN	-10	-2.46	-0.003483	± 2.5	PASS
		VN	0	-2.10	-0.002976	± 2.5	PASS
		VN	10	-3.92	-0.005548	± 2.5	PASS
		VN	20	-2.72	-0.003847	± 2.5	PASS
		VN	30	-2.40	-0.003402	± 2.5	PASS
		VN	40	-3.76	-0.005325	± 2.5	PASS
		VN	50	-3.16	-0.004475	± 2.5	PASS
	MCH	VN	-30	-0.21	-0.000302	± 2.5	PASS
		VN	-20	-0.70	-0.000987	± 2.5	PASS
		VN	-10	-0.46	-0.000645	± 2.5	PASS
		VN	0	0.69	0.000967	± 2.5	PASS
		VN	10	-1.97	-0.002780	± 2.5	PASS
		VN	20	0.37	0.000524	± 2.5	PASS
		VN	30	-1.73	-0.002438	± 2.5	PASS
		VN	40	-3.00	-0.004231	± 2.5	PASS
		VN	50	-1.83	-0.002579	± 2.5	PASS
	HCH	VN	-30	-1.69	-0.002366	± 2.5	PASS
		VN	-20	-0.70	-0.000982	± 2.5	PASS
		VN	-10	-0.64	-0.000902	± 2.5	PASS
		VN	0	-1.75	-0.002446	± 2.5	PASS
		VN	10	-0.74	-0.001043	± 2.5	PASS
		VN	20	-0.56	-0.000782	± 2.5	PASS
		VN	30	-0.43	-0.000601	± 2.5	PASS
		VN	40	-1.57	-0.002205	± 2.5	PASS
		VN	50	-0.46	-0.000642	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict

QPSK	LCH	VL	TN	-2.27	-0.003208	± 2.5	PASS
		VN	TN	-1.80	-0.002542	± 2.5	PASS
		VH	TN	-1.80	-0.002542	± 2.5	PASS
	MCH	VL	TN	-1.29	-0.001813	± 2.5	PASS
		VN	TN	-2.15	-0.003022	± 2.5	PASS
		VH	TN	-1.24	-0.001753	± 2.5	PASS
	HCH	VL	TN	-1.73	-0.002434	± 2.5	PASS
		VN	TN	-1.27	-0.001791	± 2.5	PASS
		VH	TN	-1.54	-0.002173	± 2.5	PASS
16QAM	LCH	VL	TN	-1.36	-0.001917	± 2.5	PASS
		VN	TN	-1.66	-0.002340	± 2.5	PASS
		VH	TN	-2.00	-0.002825	± 2.5	PASS
	MCH	VL	TN	-1.72	-0.002418	± 2.5	PASS
		VN	TN	-1.12	-0.001572	± 2.5	PASS
		VH	TN	-1.75	-0.002458	± 2.5	PASS
	HCH	VL	TN	-1.69	-0.002374	± 2.5	PASS
		VN	TN	-1.54	-0.002173	± 2.5	PASS
		VH	TN	-1.69	-0.002374	± 2.5	PASS

Temperature

Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.76	-0.002482	± 2.5	PASS
		VN	-20	-1.30	-0.001836	± 2.5	PASS
		VN	-10	-1.89	-0.002663	± 2.5	PASS
		VN	0	-1.54	-0.002179	± 2.5	PASS
		VN	10	-1.23	-0.001735	± 2.5	PASS
		VN	20	-1.96	-0.002764	± 2.5	PASS
		VN	30	-1.20	-0.001695	± 2.5	PASS
		VN	40	-1.33	-0.001876	± 2.5	PASS
		VN	50	-1.65	-0.002320	± 2.5	PASS
	MCH	VN	-30	-1.54	-0.002176	± 2.5	PASS
		VN	-20	-2.70	-0.003808	± 2.5	PASS
		VN	-10	-1.37	-0.001934	± 2.5	PASS
		VN	0	-2.35	-0.003304	± 2.5	PASS
		VN	10	-1.17	-0.001652	± 2.5	PASS
		VN	20	-1.06	-0.001491	± 2.5	PASS
		VN	30	-1.57	-0.002216	± 2.5	PASS
		VN	40	-1.33	-0.001874	± 2.5	PASS
		VN	50	-1.62	-0.002277	± 2.5	PASS
	HCH	VN	-30	-1.54	-0.002173	± 2.5	PASS
		VN	-20	-1.33	-0.001871	± 2.5	PASS
		VN	-10	-1.47	-0.002072	± 2.5	PASS
		VN	0	-1.50	-0.002113	± 2.5	PASS
		VN	10	-1.57	-0.002213	± 2.5	PASS
		VN	20	-1.82	-0.002555	± 2.5	PASS
		VN	30	-1.73	-0.002434	± 2.5	PASS
		VN	40	-1.70	-0.002394	± 2.5	PASS
		VN	50	-1.62	-0.002274	± 2.5	PASS

16QAM	LCH	VN	-30	-1.60	-0.002260	± 2.5	PASS
		VN	-20	-1.65	-0.002320	± 2.5	PASS
		VN	-10	-0.97	-0.001372	± 2.5	PASS
		VN	0	-1.77	-0.002502	± 2.5	PASS
		VN	10	-1.72	-0.002421	± 2.5	PASS
		VN	20	-1.66	-0.002340	± 2.5	PASS
		VN	30	-1.69	-0.002381	± 2.5	PASS
		VN	40	-1.90	-0.002683	± 2.5	PASS
		VN	50	-1.20	-0.001695	± 2.5	PASS
	MCH	VN	-30	-0.69	-0.000967	± 2.5	PASS
		VN	-20	-1.93	-0.002720	± 2.5	PASS
		VN	-10	-1.27	-0.001793	± 2.5	PASS
		VN	0	-0.99	-0.001390	± 2.5	PASS
		VN	10	-1.83	-0.002579	± 2.5	PASS
		VN	20	-1.26	-0.001773	± 2.5	PASS
		VN	30	-2.22	-0.003123	± 2.5	PASS
		VN	40	-1.83	-0.002579	± 2.5	PASS
		VN	50	-2.00	-0.002821	± 2.5	PASS
	HCH	VN	-30	-1.96	-0.002756	± 2.5	PASS
		VN	-20	-0.96	-0.001348	± 2.5	PASS
		VN	-10	-1.19	-0.001670	± 2.5	PASS
		VN	0	-1.60	-0.002253	± 2.5	PASS
		VN	10	-1.39	-0.001952	± 2.5	PASS
		VN	20	-2.07	-0.002917	± 2.5	PASS
		VN	30	-1.57	-0.002213	± 2.5	PASS
		VN	40	-1.93	-0.002716	± 2.5	PASS
		VN	50	-1.24	-0.001750	± 2.5	PASS

Appendix G) Field strength of spurious radiation

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-30MHz	Peak	10kHz	30kHz	Peak
30MHz-1GHz	Peak	120kHz	300kHz	Peak
Above 1GHz	Peak	1MHz	3MHz	Peak

Measurement Procedure:

1. Scan up to 10th harmonic, find the maximum radiation frequency to measure.
2. The technique used to find the Spurious Emissions of the transmitter was the antenna substitution method. Substitution method was performed to determine the actual ERP/EIRP emission levels of the EUT.

Test procedure as below:

1) The EUT was powered ON and placed on a 1.5m hight table at a 3 meter fully Anechoic Chamber. The antenna of the transmitter was extended to its maximum length. modulation mode and the measuring receiver shall be tuned to the frequency of the transmitter under test.
2) The EUT was set 3 meters(above 18GHz the distance is 1 meter) away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3) The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
4) Steps 1) to 3) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
5) The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
6) A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 3) is obtained for this set of conditions.
7) The output power into the substitution antenna was then measured.
8) Steps 6) and 7)were repeated with both antennas polarized.
9) Calculate power in dBm by the following formula:

ERP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBd)

EIRP(dBm) = Pg(dBm) – cable loss (dB) + antenna gain (dBi)

EIRP=ERP+2.15dB

where:

Pg is the generator output power into the substitution antenna.

	10) Test the EUT in the lowest channel, the middle channel the Highest channel 11) The radiation measurements are performed in X, Y, Z axis positioning for EUT operation mode,And found the X axis positioning which it is worse case. 12) Repeat above procedures until all frequencies measured was complete.
Limit:	Attenuated at least 43+10log(P)

Test Data:
QPSK

Mode:	LTE Traffic		
Band:	17	Channel:	23755
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	137.8694	150	341	-43.27	-13.00	30.27	Pass	Horizontal
2	176.6228	150	194	-35.96	-13.00	22.96	Pass	Horizontal
3	208.4404	150	133	-40.26	-13.00	27.26	Pass	Horizontal
4	265.3338	150	287	-39.38	-13.00	26.38	Pass	Horizontal
5	309.4710	150	318	-37.26	-13.00	24.26	Pass	Horizontal
6	366.5098	150	164	-42.04	-13.00	29.04	Pass	Horizontal
7	1413.0000	150	133	-44.01	-13.00	31.01	Pass	Horizontal
8	2119.5000	150	341	-46.43	-13.00	33.43	Pass	Horizontal
9	2826.0000	150	341	-46.03	-13.00	33.03	Pass	Horizontal
10	5112.2112	150	265	-49.68	-13.00	36.68	Pass	Horizontal
11	8496.5497	150	232	-44.18	-13.00	31.18	Pass	Horizontal
12	14423.6424	150	30	-40.46	-13.00	27.46	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23755
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	134.2317	150	144	-38.70	-13.00	25.70	Pass	Vertical
2	142.0891	150	121	-37.13	-13.00	24.13	Pass	Vertical
3	181.5216	150	289	-40.31	-13.00	27.31	Pass	Vertical
4	199.9525	150	234	-43.10	-13.00	30.10	Pass	Vertical
5	265.6248	150	318	-41.67	-13.00	28.67	Pass	Vertical
6	306.6093	150	289	-42.68	-13.00	29.68	Pass	Vertical
7	1413.0000	150	204	-34.73	-13.00	21.73	Pass	Vertical
8	2119.5000	150	204	-47.21	-13.00	34.21	Pass	Vertical
9	2826.0000	150	204	-38.60	-13.00	25.60	Pass	Vertical
10	5536.7537	150	131	-49.88	-13.00	36.88	Pass	Vertical
11	9255.6256	150	97	-44.08	-13.00	31.08	Pass	Vertical
12	14317.1317	150	280	-40.81	-13.00	27.81	Pass	Vertical

Mode:	LTE Traffic		
Band:	17	Channel:	23780
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	140.8765	150	260	-37.55	-13.00	24.55	Pass	Horizontal
2	181.4731	150	184	-40.99	-13.00	27.99	Pass	Horizontal
3	207.3249	150	184	-40.25	-13.00	27.25	Pass	Horizontal
4	267.9044	150	125	-34.36	-13.00	21.36	Pass	Horizontal
5	308.3554	150	318	-34.36	-13.00	21.36	Pass	Horizontal
6	362.5811	150	184	-37.19	-13.00	24.19	Pass	Horizontal
7	1422.0000	150	154	-39.99	-13.00	26.99	Pass	Horizontal
8	2133.0000	150	125	-47.81	-13.00	34.81	Pass	Horizontal
9	2844.0000	150	125	-43.31	-13.00	30.31	Pass	Horizontal
10	4935.1935	150	344	-49.69	-13.00	36.69	Pass	Horizontal
11	9734.1734	150	96	-43.57	-13.00	30.57	Pass	Horizontal
12	14977.1977	150	344	-40.69	-13.00	27.69	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23780
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	138.6454	150	132	-41.31	-13.00	28.31	Pass	Vertical
2	176.5743	150	155	-36.92	-13.00	23.92	Pass	Vertical
3	207.9069	150	207	-42.48	-13.00	29.48	Pass	Vertical
4	255.4878	150	50	-46.55	-13.00	33.55	Pass	Vertical
5	306.9974	150	27	-42.27	-13.00	29.27	Pass	Vertical
6	360.5440	150	50	-45.55	-13.00	32.55	Pass	Vertical
7	1418.0000	150	79	-45.19	-13.00	32.19	Pass	Vertical
8	2127.0000	150	2	-45.46	-13.00	32.46	Pass	Vertical
9	2836.0000	150	79	-48.93	-13.00	35.93	Pass	Vertical
10	4732.6733	150	178	-49.68	-13.00	36.68	Pass	Vertical
11	8186.0186	150	244	-44.40	-13.00	31.40	Pass	Vertical
12	14342.6343	150	44	-40.52	-13.00	27.52	Pass	Vertical

Mode:	LTE Traffic		
Band:	17	Channel:	23825
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	141.7011	150	287	-39.05	-13.00	26.05	Pass	Horizontal
2	180.6970	150	194	-40.55	-13.00	27.55	Pass	Horizontal
3	207.9554	150	164	-40.03	-13.00	27.03	Pass	Horizontal
4	262.1326	150	102	-35.04	-13.00	22.04	Pass	Horizontal
5	306.0273	150	318	-34.60	-13.00	21.60	Pass	Horizontal
6	363.5997	150	164	-36.22	-13.00	23.22	Pass	Horizontal
7	1427.0000	150	164	-37.45	-13.00	24.45	Pass	Horizontal
8	2140.5000	150	9	-49.63	-13.00	36.63	Pass	Horizontal
9	2845.0000	150	132	-44.73	-13.00	31.73	Pass	Horizontal
10	5260.7261	150	297	-49.52	-13.00	36.52	Pass	Horizontal
11	8174.0174	150	112	-45.23	-13.00	32.23	Pass	Horizontal
12	14305.1305	150	346	-40.22	-13.00	27.22	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23825
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	139.4215	150	142	-41.50	-13.00	28.50	Pass	Vertical
2	176.6228	150	113	-34.65	-13.00	21.65	Pass	Vertical
3	201.7471	150	226	-41.56	-13.00	28.56	Pass	Vertical
4	265.0428	150	318	-44.41	-13.00	31.41	Pass	Vertical
5	307.1429	150	29	-41.45	-13.00	28.45	Pass	Vertical
6	360.0590	150	59	-45.24	-13.00	32.24	Pass	Vertical
7	1427.0000	150	59	-43.88	-13.00	30.88	Pass	Vertical
8	2140.5000	150	59	-51.27	-13.00	38.27	Pass	Vertical
9	2845.0000	150	142	-47.32	-13.00	34.32	Pass	Vertical
10	5268.2268	150	178	-49.05	-13.00	36.05	Pass	Vertical
11	10133.2133	150	145	-44.12	-13.00	31.12	Pass	Vertical
12	15055.2055	150	229	-41.07	-13.00	28.07	Pass	Vertical

Mode:	LTE Traffic		
Band:	17	Channel:	23800
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	141.5071	150	79	-38.71	-13.00	25.71	Pass	Horizontal
2	176.9138	150	255	-38.97	-13.00	25.97	Pass	Horizontal
3	208.7314	150	341	-40.27	-13.00	27.27	Pass	Horizontal
4	266.5948	150	110	-34.78	-13.00	21.78	Pass	Horizontal
5	307.3369	150	255	-34.99	-13.00	21.99	Pass	Horizontal
6	364.2787	150	172	-36.48	-13.00	23.48	Pass	Horizontal
7	1422.0000	150	141	-39.18	-13.00	26.18	Pass	Horizontal
8	2133.0000	150	286	-51.10	-13.00	38.10	Pass	Horizontal
9	2844.0000	150	141	-45.93	-13.00	32.93	Pass	Horizontal
10	5530.7531	150	48	-48.95	-13.00	35.95	Pass	Horizontal
11	9669.6670	150	149	-43.95	-13.00	30.95	Pass	Horizontal
12	14416.1416	150	266	-40.65	-13.00	27.65	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23800
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	139.1305	150	131	-40.89	-13.00	27.89	Pass	Vertical
2	184.3347	150	286	-35.32	-13.00	22.32	Pass	Vertical
3	202.5231	150	224	-41.04	-13.00	28.04	Pass	Vertical
4	265.9643	150	317	-43.72	-13.00	30.72	Pass	Vertical
5	308.8889	150	255	-46.27	-13.00	33.27	Pass	Vertical
6	363.9877	150	38	-46.59	-13.00	33.59	Pass	Vertical
7	1422.0000	150	100	-44.75	-13.00	31.75	Pass	Vertical
8	2133.0000	150	193	-48.48	-13.00	35.48	Pass	Vertical
9	2844.0000	150	341	-48.66	-13.00	35.66	Pass	Vertical
10	5070.2070	150	46	-49.72	-13.00	36.72	Pass	Vertical
11	9644.1644	150	333	-44.36	-13.00	31.36	Pass	Vertical
12	15004.2004	150	80	-40.60	-13.00	27.60	Pass	Vertical

Mode:	LTE Traffic		
Band:	17	Channel:	23790
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	141.8951	150	267	-37.87	-13.00	24.87	Pass	Horizontal
2	181.1821	150	185	-39.46	-13.00	26.46	Pass	Horizontal
3	208.2949	150	3	-40.31	-13.00	27.31	Pass	Horizontal
4	261.5021	150	75	-35.10	-13.00	22.10	Pass	Horizontal
5	307.1429	150	208	-34.87	-13.00	21.87	Pass	Horizontal
6	358.5554	150	185	-37.40	-13.00	24.40	Pass	Horizontal
7	1420.0000	150	156	-38.23	-13.00	25.23	Pass	Horizontal
8	2130.0000	150	75	-50.33	-13.00	37.33	Pass	Horizontal
9	2840.0000	150	133	-46.29	-13.00	33.29	Pass	Horizontal
10	5167.7168	150	343	-49.41	-13.00	36.41	Pass	Horizontal
11	9587.1587	150	195	-42.92	-13.00	29.92	Pass	Horizontal
12	14963.6964	150	360	-39.73	-13.00	26.73	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23790
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	128.8964	150	288	-41.97	-13.00	28.97	Pass	Vertical
2	142.0891	150	125	-39.93	-13.00	26.93	Pass	Vertical
3	181.3761	150	288	-40.96	-13.00	27.96	Pass	Vertical
4	207.2279	150	207	-44.83	-13.00	31.83	Pass	Vertical
5	268.9714	150	318	-43.05	-13.00	30.05	Pass	Vertical
6	306.1243	150	21	-41.41	-13.00	28.41	Pass	Vertical
7	1420.0000	150	236	-36.01	-13.00	23.01	Pass	Vertical
8	2130.0000	150	207	-48.29	-13.00	35.29	Pass	Vertical
9	2840.0000	150	236	-42.81	-13.00	29.81	Pass	Vertical
10	5046.2046	150	294	-49.68	-13.00	36.68	Pass	Vertical
11	8058.5059	150	327	-45.33	-13.00	32.33	Pass	Vertical
12	14270.6271	150	244	-40.90	-13.00	27.90	Pass	Vertical

Mode:	LTE Traffic		
Band:	17	Channel:	23790
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	141.7496	150	266	-37.26	-13.00	24.26	Pass	Horizontal
2	177.1079	150	184	-33.06	-13.00	20.06	Pass	Horizontal
3	208.1494	150	155	-35.79	-13.00	22.79	Pass	Horizontal
4	265.2853	150	132	-35.62	-13.00	22.62	Pass	Horizontal
5	307.9189	150	318	-33.69	-13.00	20.69	Pass	Horizontal
6	363.4057	150	184	-37.73	-13.00	24.73	Pass	Horizontal
7	1420.0000	150	341	-42.76	-13.00	29.76	Pass	Horizontal
8	2130.0000	150	3	-50.05	-13.00	37.05	Pass	Horizontal
9	2840.0000	150	341	-43.87	-13.00	30.87	Pass	Horizontal
10	4929.1929	150	244	-49.18	-13.00	36.18	Pass	Horizontal
11	8627.0627	150	344	-44.52	-13.00	31.52	Pass	Horizontal
12	14473.1473	150	357	-40.65	-13.00	27.65	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23790
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	97.1274	150	266	-45.51	-13.00	32.51	Pass	Vertical
2	141.7981	150	155	-40.19	-13.00	27.19	Pass	Vertical
3	181.2306	150	318	-41.16	-13.00	28.16	Pass	Vertical
4	262.5206	150	318	-43.75	-13.00	30.75	Pass	Vertical
5	307.1914	150	21	-41.64	-13.00	28.64	Pass	Vertical
6	362.6296	150	50	-46.01	-13.00	33.01	Pass	Vertical
7	1420.0000	150	208	-36.91	-13.00	23.91	Pass	Vertical
8	2130.0000	150	184	-49.85	-13.00	36.85	Pass	Vertical
9	2840.0000	150	208	-42.29	-13.00	29.29	Pass	Vertical
10	4591.6592	150	211	-49.32	-13.00	36.32	Pass	Vertical
11	8244.5245	150	13	-44.76	-13.00	31.76	Pass	Vertical
12	13652.5653	150	29	-41.02	-13.00	28.02	Pass	Vertical

16QAM

Mode:	LTE Traffic		
Band:	17	Channel:	23755
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	97.0304	150	102	-45.28	-13.00	32.28	Pass	Horizontal
2	137.8694	150	341	-42.77	-13.00	29.77	Pass	Horizontal
3	176.6228	150	194	-35.46	-13.00	22.46	Pass	Horizontal
4	265.3338	150	287	-38.88	-13.00	25.88	Pass	Horizontal
5	309.4710	150	318	-36.76	-13.00	23.76	Pass	Horizontal
6	366.5098	150	164	-41.54	-13.00	28.54	Pass	Horizontal
7	1413.0000	150	318	-43.03	-13.00	30.03	Pass	Horizontal
8	2119.5000	150	102	-45.01	-13.00	32.01	Pass	Horizontal
9	2826.0000	150	256	-43.40	-13.00	30.40	Pass	Horizontal
10	5112.2112	150	265	-49.68	-13.00	36.68	Pass	Horizontal
11	11711.3711	150	359	-42.36	-13.00	29.36	Pass	Horizontal
12	14423.6424	150	30	-40.46	-13.00	27.46	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23755
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	97.3214	150	266	-43.05	-13.00	30.05	Pass	Vertical
2	134.2317	150	144	-38.70	-13.00	25.70	Pass	Vertical
3	181.5216	150	289	-40.31	-13.00	27.31	Pass	Vertical
4	265.6248	150	318	-41.67	-13.00	28.67	Pass	Vertical
5	306.6093	150	289	-42.68	-13.00	29.68	Pass	Vertical
6	361.8536	150	60	-46.48	-13.00	33.48	Pass	Vertical
7	1413.0000	150	204	-34.59	-13.00	21.59	Pass	Vertical
8	2119.5000	150	204	-44.78	-13.00	31.78	Pass	Vertical
9	2826.0000	150	204	-38.09	-13.00	25.09	Pass	Vertical
10	5028.2028	150	198	-49.66	-13.00	36.66	Pass	Vertical
11	8481.5482	150	97	-45.17	-13.00	32.17	Pass	Vertical
12	14317.1317	150	280	-40.81	-13.00	27.81	Pass	Vertical

Mode:	LTE Traffic		
Band:	17	Channel:	23780
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	34.1712	150	236	-61.34	-13.00	48.34	Pass	Horizontal
2	97.1274	150	125	-43.49	-13.00	30.49	Pass	Horizontal
3	136.3658	150	73	-40.56	-13.00	27.56	Pass	Horizontal
4	207.3249	150	184	-40.25	-13.00	27.25	Pass	Horizontal
5	308.3554	150	318	-34.36	-13.00	21.36	Pass	Horizontal
6	621.5841	150	260	-51.79	-13.00	38.79	Pass	Horizontal
7	1422.0000	150	154	-37.86	-13.00	24.86	Pass	Horizontal
8	2133.0000	150	341	-46.51	-13.00	33.51	Pass	Horizontal
9	2844.0000	150	125	-43.14	-13.00	30.14	Pass	Horizontal
10	3528.0528	150	357	-50.09	-13.00	37.09	Pass	Horizontal
11	9734.1734	150	96	-43.57	-13.00	30.57	Pass	Horizontal
12	14977.1977	150	344	-40.69	-13.00	27.69	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23780
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	57.8889	150	50	-60.51	-13.00	47.51	Pass	Vertical
2	97.3699	150	79	-49.88	-13.00	36.88	Pass	Vertical
3	138.6454	150	132	-41.31	-13.00	28.31	Pass	Vertical
4	176.2833	150	155	-37.88	-13.00	24.88	Pass	Vertical
5	255.4878	150	50	-46.55	-13.00	33.55	Pass	Vertical
6	306.9974	150	27	-42.27	-13.00	29.27	Pass	Vertical
7	1418.0000	150	79	-45.10	-13.00	32.10	Pass	Vertical
8	2127.0000	150	266	-43.98	-13.00	30.98	Pass	Vertical
9	3078.0078	150	13	-48.81	-13.00	35.81	Pass	Vertical
10	5091.2091	150	78	-49.51	-13.00	36.51	Pass	Vertical
11	8186.0186	150	244	-44.40	-13.00	31.40	Pass	Vertical
12	14342.6343	150	44	-40.52	-13.00	27.52	Pass	Vertical

Mode:	LTE Traffic		
Band:	17	Channel:	23790
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	97.1274	150	125	-42.99	-13.00	29.99	Pass	Horizontal
2	140.8765	150	260	-37.05	-13.00	24.05	Pass	Horizontal
3	180.6485	150	207	-40.61	-13.00	27.61	Pass	Horizontal
4	267.9044	150	125	-33.86	-13.00	20.86	Pass	Horizontal
5	308.3554	150	318	-33.86	-13.00	20.86	Pass	Horizontal
6	362.5811	150	184	-36.69	-13.00	23.69	Pass	Horizontal
7	1420.0000	150	154	-37.36	-13.00	24.36	Pass	Horizontal
8	2130.0000	150	341	-46.01	-13.00	33.01	Pass	Horizontal
9	2840.0000	150	125	-42.64	-13.00	29.64	Pass	Horizontal
10	3528.0528	150	357	-49.59	-13.00	36.59	Pass	Horizontal
11	6903.3903	150	96	-48.50	-13.00	35.50	Pass	Horizontal
12	14977.1977	150	344	-40.69	-13.00	27.69	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23790
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	45.1813	150	155	-54.22	-13.00	41.22	Pass	Vertical
2	113.3757	150	155	-49.31	-13.00	36.31	Pass	Vertical
3	136.8993	150	132	-42.30	-13.00	29.30	Pass	Vertical
4	176.5743	150	155	-37.42	-13.00	24.42	Pass	Vertical
5	306.9974	150	27	-42.77	-13.00	29.77	Pass	Vertical
6	360.5440	150	50	-46.05	-13.00	33.05	Pass	Vertical
7	1420.0000	150	79	-45.60	-13.00	32.60	Pass	Vertical
8	2130.0000	150	266	-43.98	-13.00	30.98	Pass	Vertical
9	3078.0078	150	13	-48.81	-13.00	35.81	Pass	Vertical
10	5091.2091	150	78	-49.51	-13.00	36.51	Pass	Vertical
11	8186.0186	150	244	-44.40	-13.00	31.40	Pass	Vertical
12	12816.9817	150	360	-42.05	-13.00	29.05	Pass	Vertical

Mode:	LTE Traffic		
Band:	17	Channel:	23790
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	78.9389	150	79	-49.57	-13.00	36.57	Pass	Horizontal
2	141.5071	150	79	-38.71	-13.00	25.71	Pass	Horizontal
3	176.9138	150	255	-38.97	-13.00	25.97	Pass	Horizontal
4	266.5948	150	110	-34.78	-13.00	21.78	Pass	Horizontal
5	307.3369	150	255	-34.99	-13.00	21.99	Pass	Horizontal
6	364.2787	150	172	-36.48	-13.00	23.48	Pass	Horizontal
7	1420.0000	150	172	-38.65	-13.00	25.65	Pass	Horizontal
8	2130.0000	150	0	-48.39	-13.00	35.39	Pass	Horizontal
9	3145.5146	150	359	-48.74	-13.00	35.74	Pass	Horizontal
10	5530.7531	150	48	-48.95	-13.00	35.95	Pass	Horizontal
11	7680.4680	150	283	-46.25	-13.00	33.25	Pass	Horizontal
12	13606.0606	150	359	-41.73	-13.00	28.73	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23790
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	53.1842	150	8	-62.38	-13.00	49.38	Pass	Vertical
2	94.9933	150	286	-52.45	-13.00	39.45	Pass	Vertical
3	139.1305	150	131	-40.89	-13.00	27.89	Pass	Vertical
4	184.3347	150	286	-35.32	-13.00	22.32	Pass	Vertical
5	265.9643	150	317	-43.72	-13.00	30.72	Pass	Vertical
6	308.8889	150	255	-46.27	-13.00	33.27	Pass	Vertical
7	1420.0000	150	69	-44.72	-13.00	31.72	Pass	Vertical
8	2130.0000	150	193	-46.77	-13.00	33.77	Pass	Vertical
9	2840.0000	150	131	-47.67	-13.00	34.67	Pass	Vertical
10	5070.2070	150	46	-49.72	-13.00	36.72	Pass	Vertical
11	6936.3936	150	232	-48.72	-13.00	35.72	Pass	Vertical
12	13711.0711	150	80	-40.87	-13.00	27.87	Pass	Vertical

Mode:	LTE Traffic		
Band:	17	Channel:	23825
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	97.3214	150	141	-42.88	-13.00	29.88	Pass	Horizontal
2	141.5071	150	79	-38.71	-13.00	25.71	Pass	Horizontal
3	176.9138	150	255	-38.97	-13.00	25.97	Pass	Horizontal
4	266.5948	150	110	-34.78	-13.00	21.78	Pass	Horizontal
5	307.3369	150	255	-34.99	-13.00	21.99	Pass	Horizontal
6	364.2787	150	172	-36.48	-13.00	23.48	Pass	Horizontal
7	1427.0000	150	172	-38.65	-13.00	25.65	Pass	Horizontal
8	2140.5000	150	0	-48.39	-13.00	35.39	Pass	Horizontal
9	2845.0000	150	141	-45.54	-13.00	32.54	Pass	Horizontal
10	5530.7531	150	48	-48.95	-13.00	35.95	Pass	Horizontal
11	7680.4680	150	283	-46.25	-13.00	33.25	Pass	Horizontal
12	14416.1416	150	266	-40.65	-13.00	27.65	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23825
Remark:	5M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	94.9933	150	286	-52.45	-13.00	39.45	Pass	Vertical
2	139.1305	150	131	-40.89	-13.00	27.89	Pass	Vertical
3	184.3347	150	286	-35.32	-13.00	22.32	Pass	Vertical
4	265.9643	150	317	-43.72	-13.00	30.72	Pass	Vertical
5	308.8889	150	255	-46.27	-13.00	33.27	Pass	Vertical
6	363.9877	150	38	-46.59	-13.00	33.59	Pass	Vertical
7	1427.0000	150	69	-44.72	-13.00	31.72	Pass	Vertical
8	2140.5000	150	193	-46.77	-13.00	33.77	Pass	Vertical
9	2845.0000	150	131	-47.67	-13.00	34.67	Pass	Vertical
10	5070.2070	150	46	-49.72	-13.00	36.72	Pass	Vertical
11	7698.4698	150	132	-46.56	-13.00	33.56	Pass	Vertical
12	15004.2004	150	80	-40.60	-13.00	27.60	Pass	Vertical

Mode:	LTE Traffic		
Band:	17	Channel:	23800
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	52.6506	150	225	-65.43	-13.00	52.43	Pass	Horizontal
2	97.3699	150	102	-42.10	-13.00	29.10	Pass	Horizontal
3	141.7011	150	287	-38.55	-13.00	25.55	Pass	Horizontal
4	207.9554	150	164	-39.53	-13.00	26.53	Pass	Horizontal
5	306.0273	150	318	-34.10	-13.00	21.10	Pass	Horizontal
6	363.5997	150	164	-35.72	-13.00	22.72	Pass	Horizontal
7	1422.0000	150	164	-36.13	-13.00	23.13	Pass	Horizontal
8	2133.0000	150	102	-47.45	-13.00	34.45	Pass	Horizontal
9	2844.0000	150	132	-42.87	-13.00	29.87	Pass	Horizontal
10	5260.7261	150	297	-49.52	-13.00	36.52	Pass	Horizontal
11	11700.8701	150	79	-42.90	-13.00	29.90	Pass	Horizontal
12	14305.1305	150	346	-40.22	-13.00	27.22	Pass	Horizontal

Mode:	LTE Traffic		
Band:	17	Channel:	23800
Remark:	10M		

NO.	Freq. [MHz]	Height [cm]	Azimuth [deg]	Level [dBm]	Limit [dBm]	Margin [dB]	Result	Polarity
1	86.8448	150	226	-56.09	-13.00	43.09	Pass	Vertical
2	139.4215	150	142	-41.50	-13.00	28.50	Pass	Vertical
3	176.6228	150	113	-34.65	-13.00	21.65	Pass	Vertical
4	265.0428	150	318	-44.41	-13.00	31.41	Pass	Vertical
5	307.1429	150	29	-41.45	-13.00	28.45	Pass	Vertical
6	360.0590	150	59	-45.24	-13.00	32.24	Pass	Vertical
7	1422.0000	150	59	-43.28	-13.00	30.28	Pass	Vertical
8	2133.0000	150	3	-49.53	-13.00	36.53	Pass	Vertical
9	2844.0000	150	3	-46.57	-13.00	33.57	Pass	Vertical
10	5268.2268	150	178	-49.05	-13.00	36.05	Pass	Vertical
11	8810.0810	150	262	-45.00	-13.00	32.00	Pass	Vertical
12	17567.9568	150	112	-41.06	-13.00	28.06	Pass	Vertical

Note:

Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.