Appendix A: Effective (Isotropic) Radiated Power Output Data

Test Result

Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	LCH	1	0	22.86	PASS
		1	12	22.92	PASS
		1	24	22.99	PASS
		12	0	22.11	PASS
		12	6	22.07	PASS
		12	13	22.10	PASS
		25	0	22.18	PASS
	MCH	1	0	22.95	PASS
		1	12	22.88	PASS
		1	24	22.87	PASS
		12	0	22.09	PASS
		12	6	22.02	PASS
		12	13	21.98	PASS
		25	0	22.02	PASS
	HCH	1	0	22.93	PASS
		1	12	22.96	PASS
		1	24	22.94	PASS
		12	0	22.11	PASS
		12	6	22.19	PASS
		12	13	22.11	PASS
		25	0	22.05	PASS
16QAM	LCH	1	0	22.33	PASS
		1	12	22.22	PASS
		1	24	22.27	PASS
		12	0	21.18	PASS
		12	6	21.14	PASS
		12	13	21.16	PASS
		25	0	21.17	PASS
	MCH	1	0	22.27	PASS
		1	12	22.17	PASS
		1	24	22.11	PASS
		12	0	21.16	PASS

		12	6	21.09	PASS
		12	13	20.97	PASS
		25	0	21.00	PASS
	HCH	1	0	22.35	PASS
		1	12	22.24	PASS
		1	24	22.16	PASS
		12	0	21.11	PASS
		12	6	21.22	PASS
		12	13	21.12	PASS
		25	0	21.07	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz					
Modulation	Channel	RB Configuration		Average Power [dBm]	Verdict
		Size	Offset		
QPSK	MCH	1	0	23.01	PASS
		1	24	22.92	PASS
		1	49	22.79	PASS
		25	0	21.99	PASS
		25	12	22.06	PASS
		25	25	21.96	PASS
		50	0	22.05	PASS
16QAM	MCH	1	0	22.24	PASS
		1	24	22.15	PASS
		1	49	22.03	PASS
		25	0	20.99	PASS
		25	12	21.02	PASS
		25	25	20.88	PASS
		50	0	21.04	PASS

Appendix B: Peak-to-Average Ratio

Test Result

Channel Bandwidth: 5 MHz

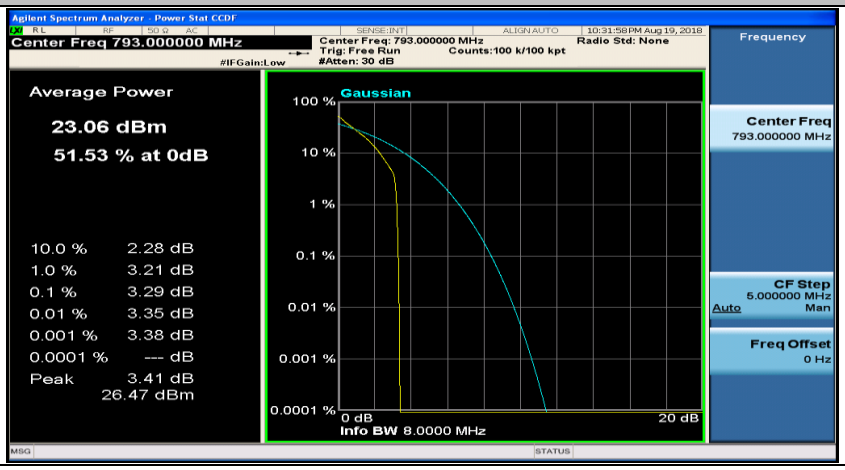
Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	3.29	<13	PASS
16QAM	MCH	1	0	4.07	<13	PASS

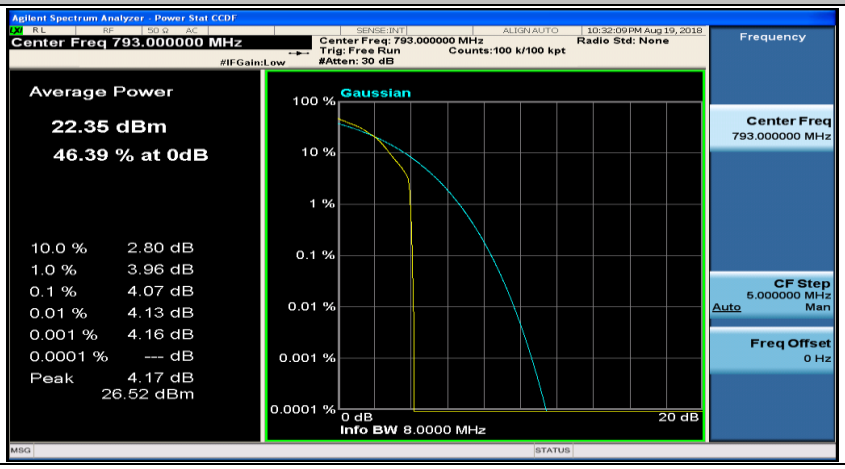
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
		Size	Offset			
QPSK	MCH	1	0	3.38	<13	PASS
16QAM	MCH	1	0	4.17	<13	PASS

Test Graphs

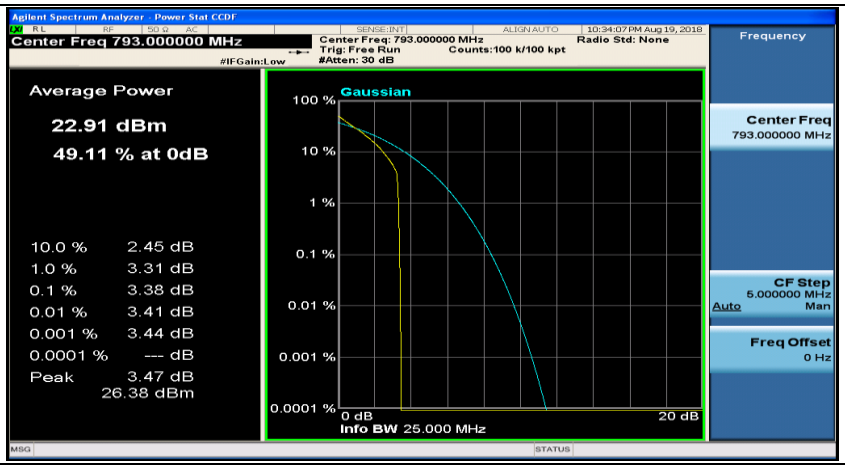
Channel Bandwidth: 5 MHz

(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0


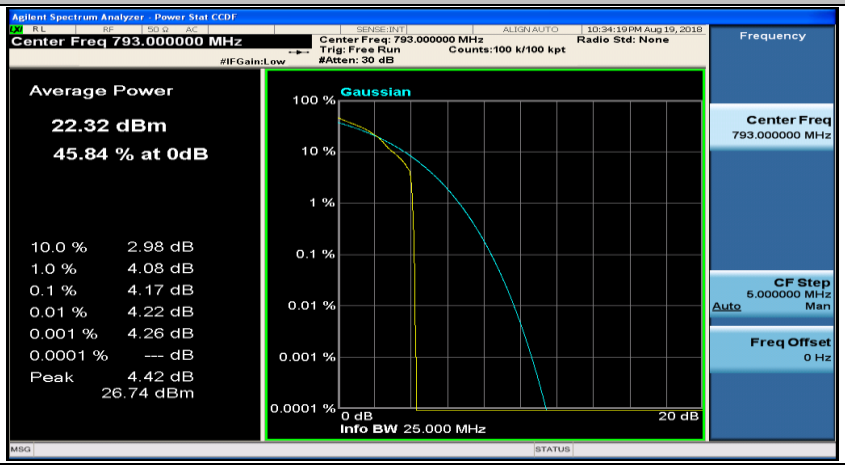
(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0


Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0



Appendix C: 26dB Bandwidth and Occupied Bandwidth

Test Result

Channel Bandwidth: 5 MHz

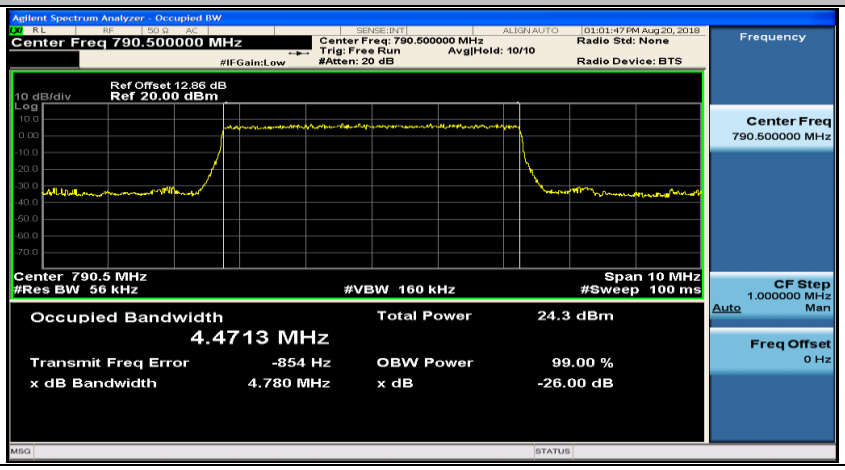
Channel Bandwidth: 5 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	LCH	25	0	4.4713	4.780	PASS
	MCH	25	0	4.4713	4.785	PASS
	HCH	25	0	4.4615	4.766	PASS
16QAM	LCH	25	0	4.4748	4.812	PASS
	MCH	25	0	4.4809	4.789	PASS
	HCH	25	0	4.4777	4.778	PASS

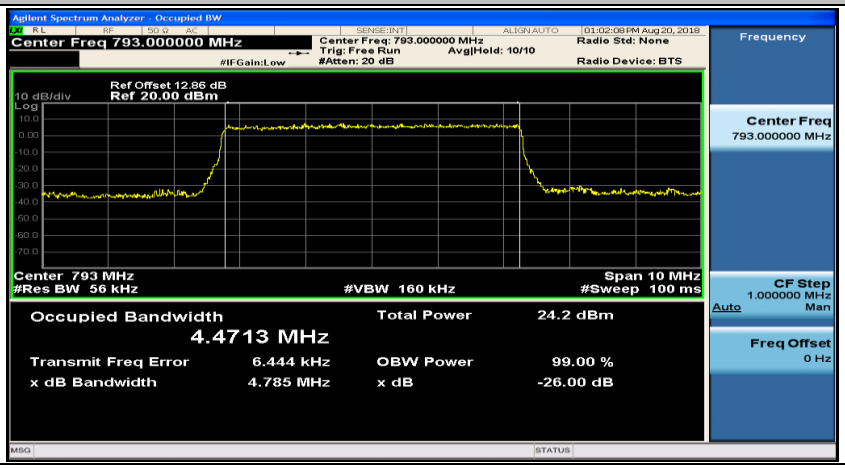
Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz						
Modulation	Channel	RB Configuration		Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
		Size	Offset			
QPSK	MCH	50	0	8.9190	9.373	PASS
16QAM	MCH	50	0	8.9332	9.384	PASS

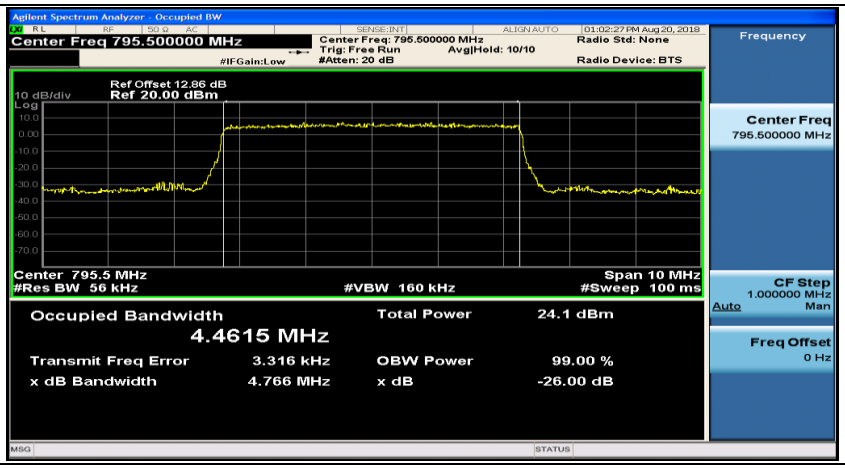
Test Graphs

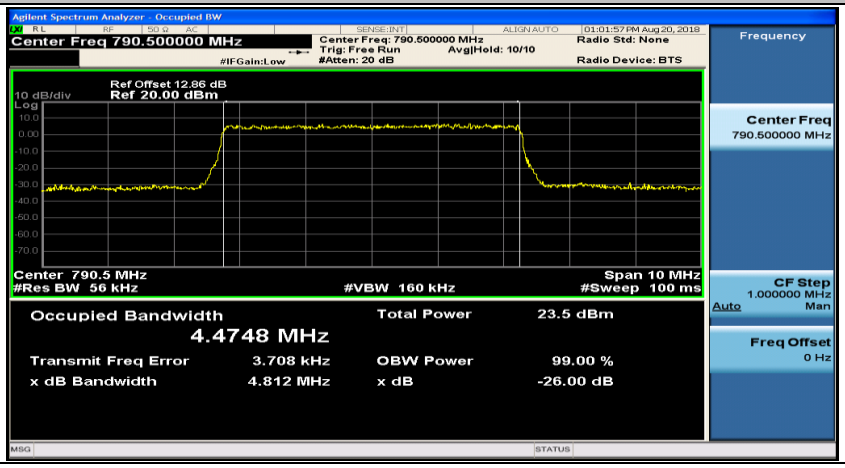
Channel Bandwidth: 5 MHz

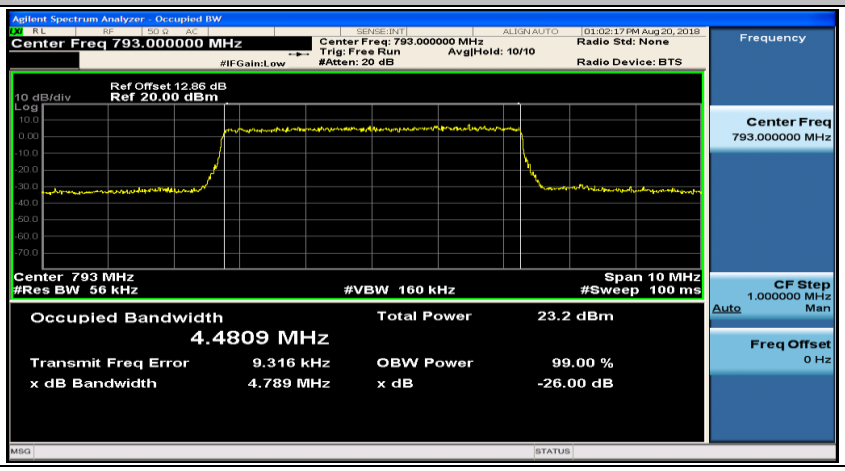
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0


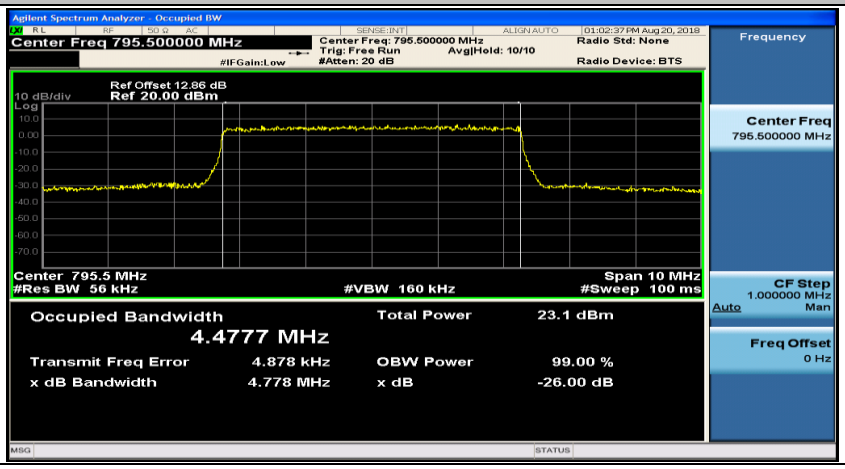
(Channel Bandwidth: 5 MHz)_MCH_QPSK_25RB#0


(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0


Agilent Spectrum Analyzer - Occupied BW
Center Freq 795.500000 MHz
Center Freq: 795.500000 MHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 20 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
01:02:27 PM Aug 20, 2018
Frequency
Ref Offset 12.86 dB
10 dB/div
Ref 20.00 dBm
Log
Center 795.5 MHz
#Res BW 56 kHz
#VBW 160 kHz
Span 10 MHz
#Sweep 100 ms
Occupied Bandwidth
4.4615 MHz
Total Power
24.1 dBm
Transmit Freq Error
3.316 kHz
OBW Power
99.00 %
x dB Bandwidth
4.766 MHz
x dB
-26.00 dB
Center Freq
795.500000 MHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

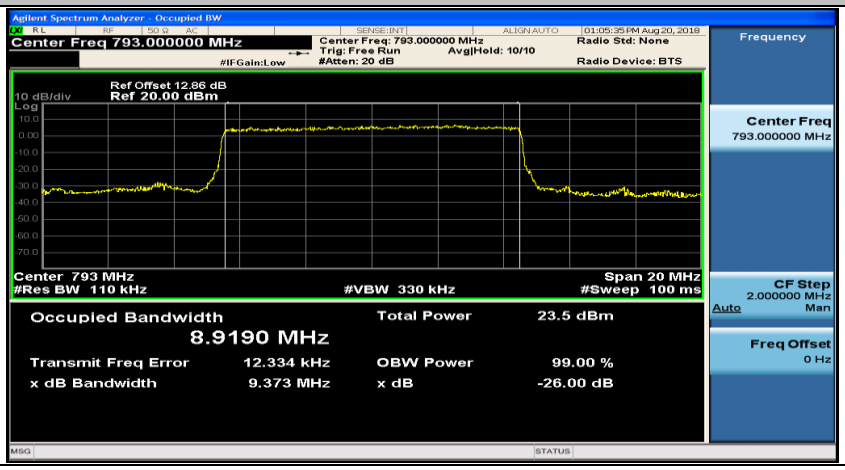
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0


(Channel Bandwidth: 5 MHz)_MCH_16QAM_25RB#0


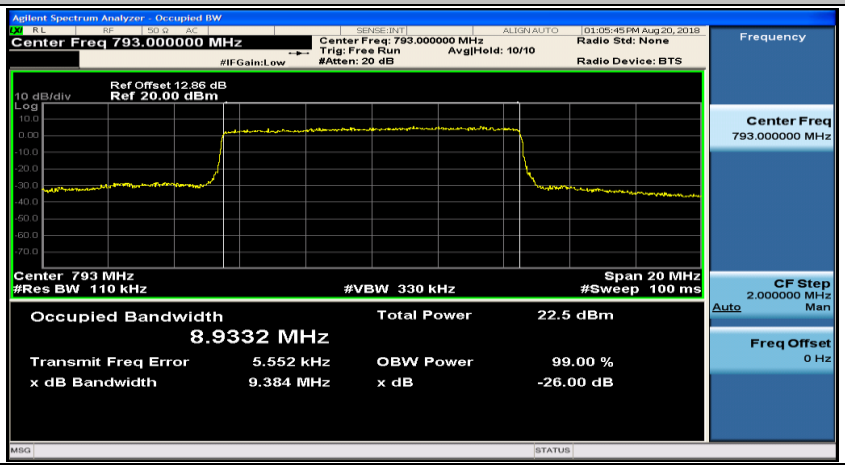
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0


Channel Bandwidth: 10 MHz

(Channel Bandwidth: 10 MHz)_MCH_QPSK_50RB#0



(Channel Bandwidth: 10 MHz)_MCH_16QAM_50RB#0

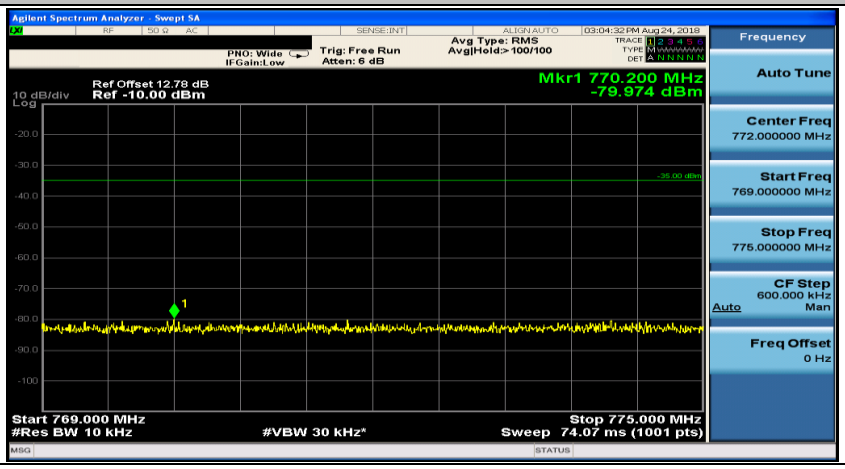


Appendix D: Band Edge

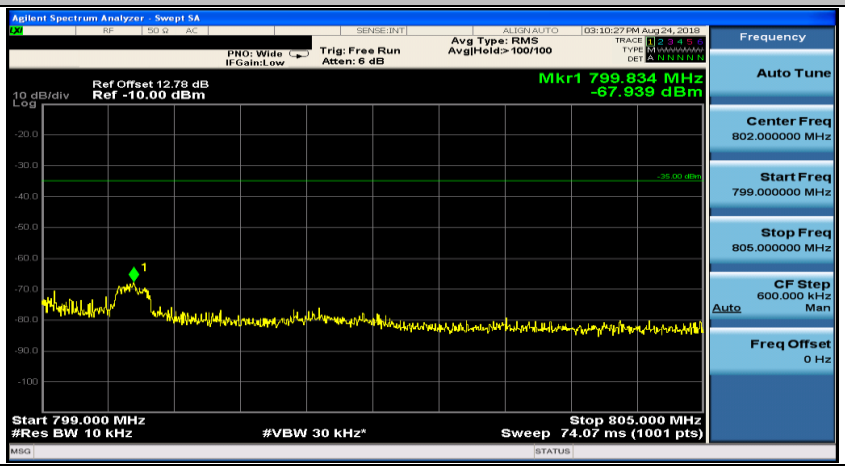
Test Graphs

Channel Bandwidth: 5 MHz

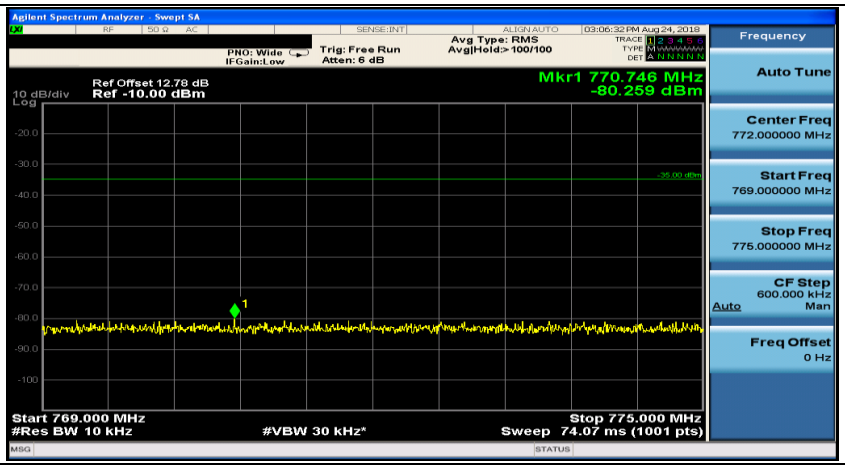
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



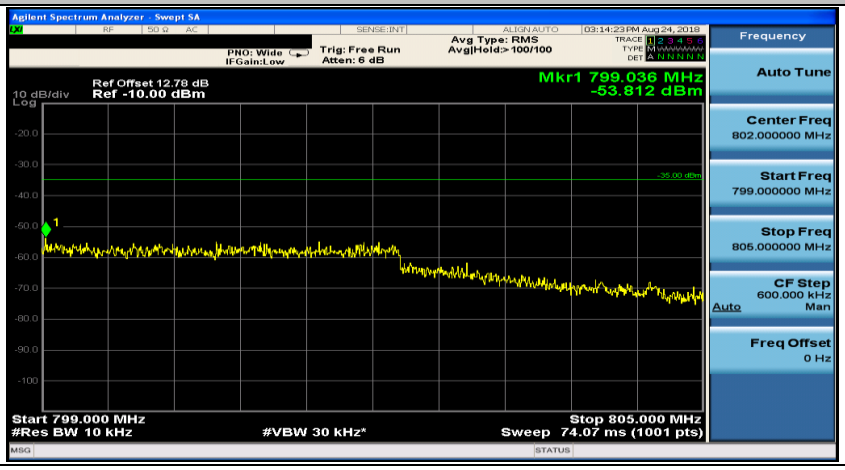
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



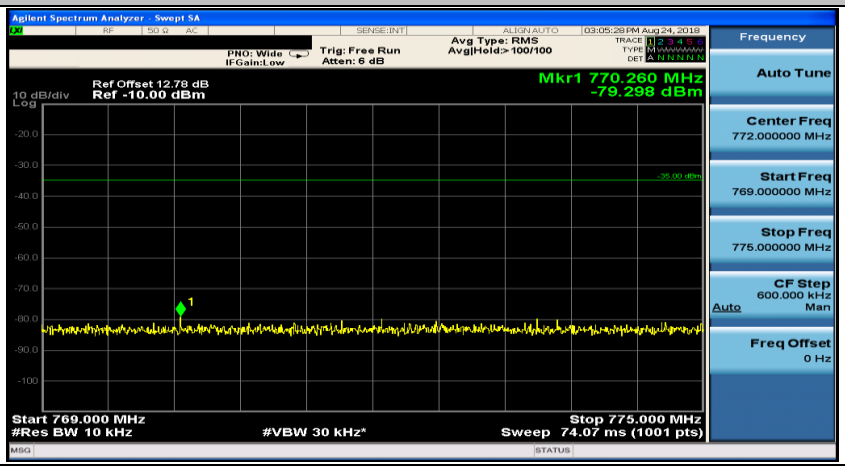
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



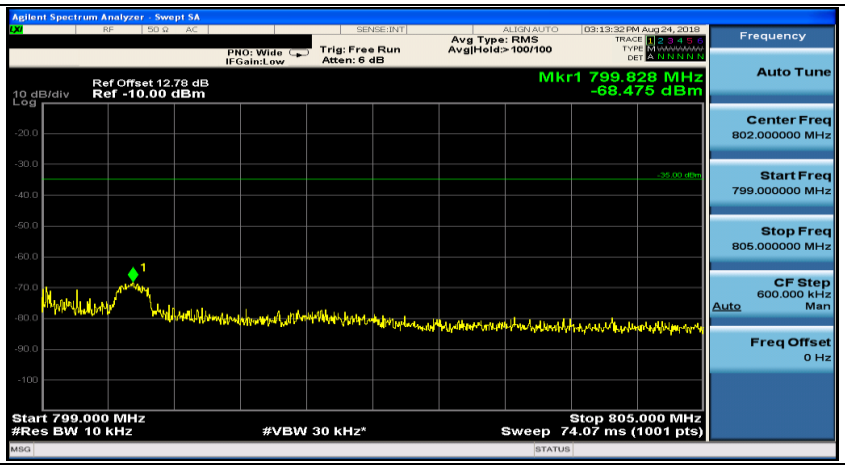
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



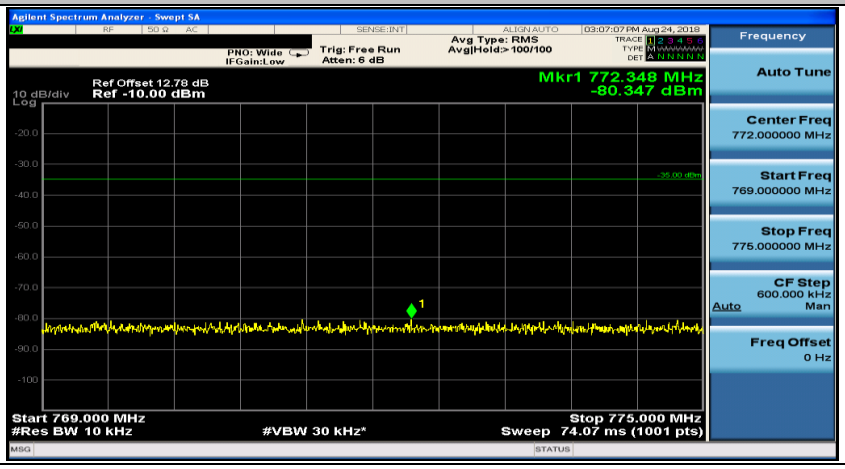
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



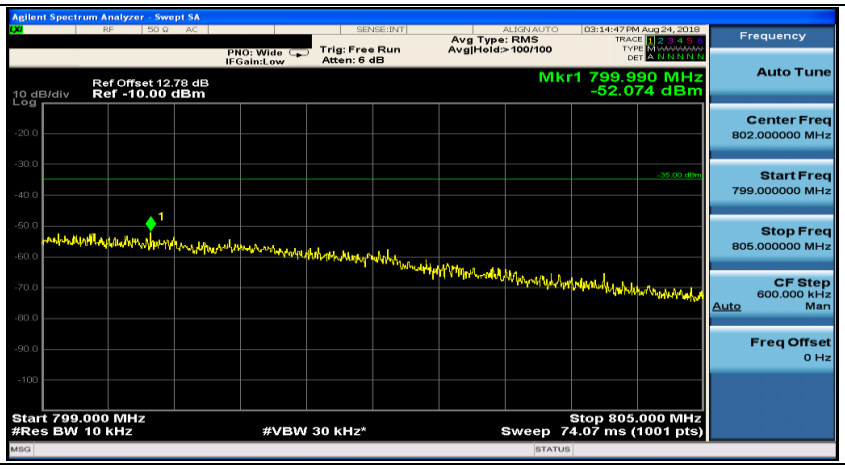
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



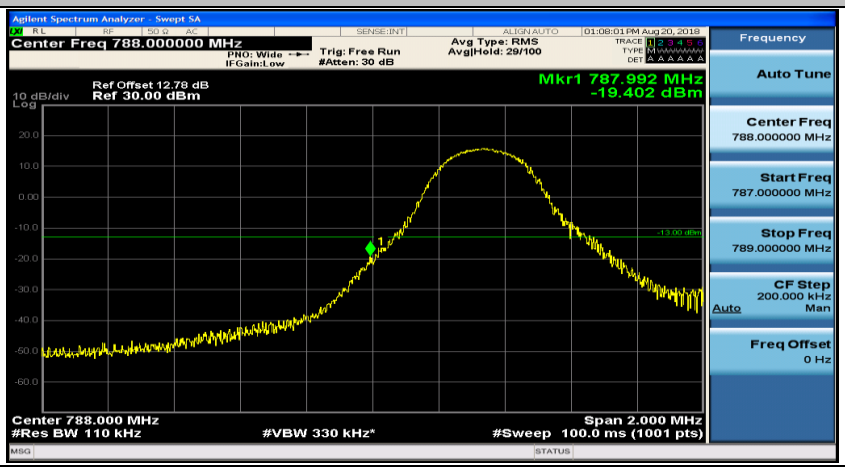
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0



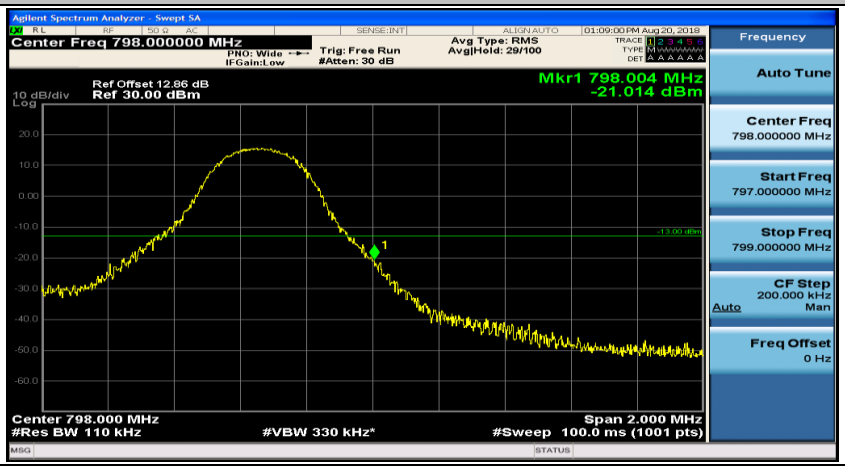
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0



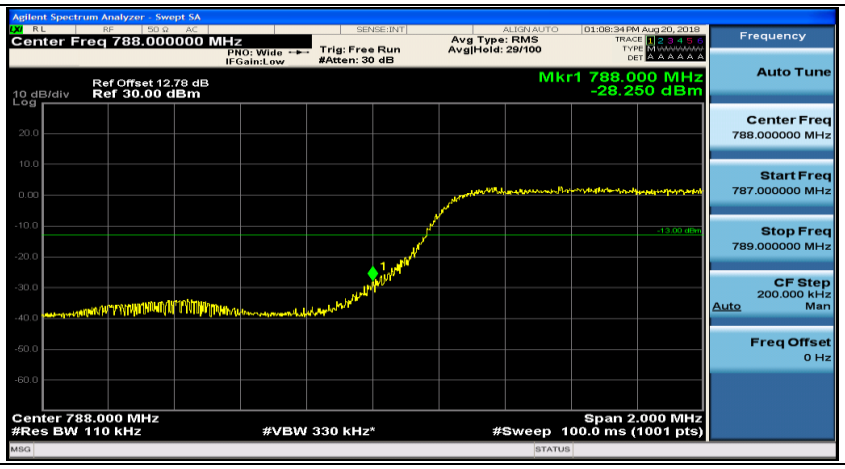
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



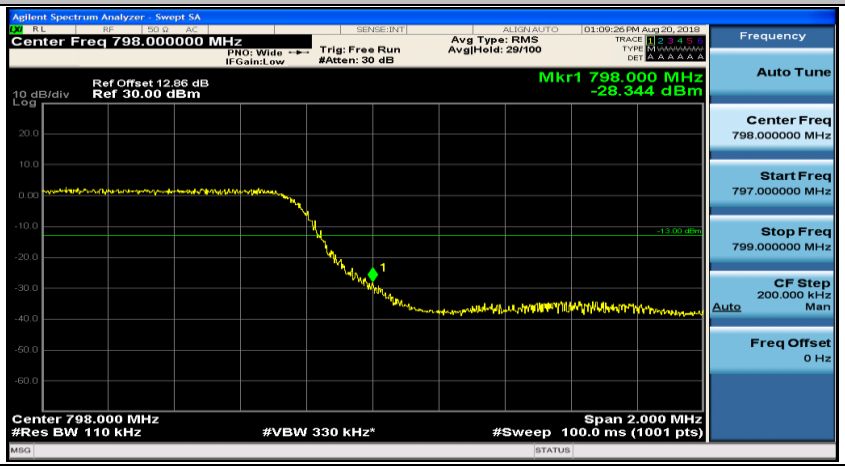
(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#24



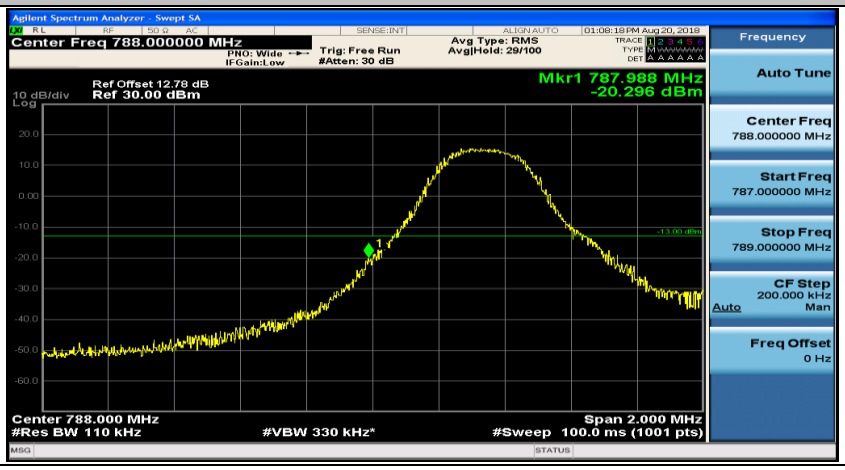
(Channel Bandwidth: 5 MHz)_LCH_QPSK_25RB#0



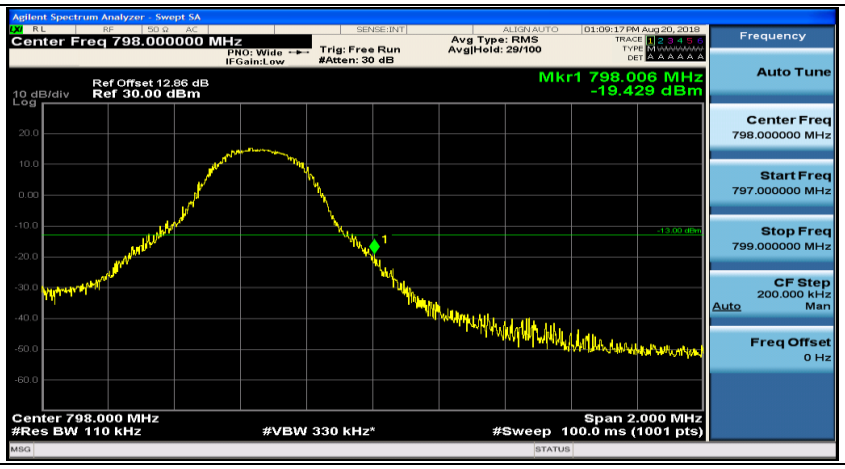
(Channel Bandwidth: 5 MHz)_HCH_QPSK_25RB#0



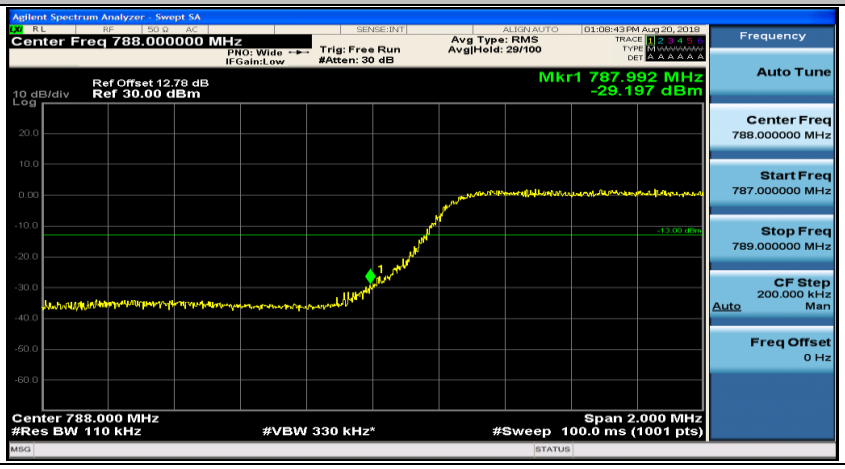
(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0



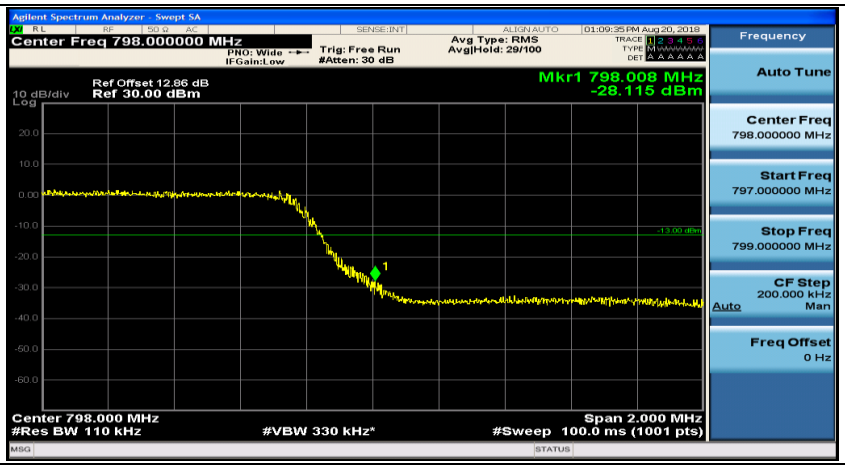
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#24



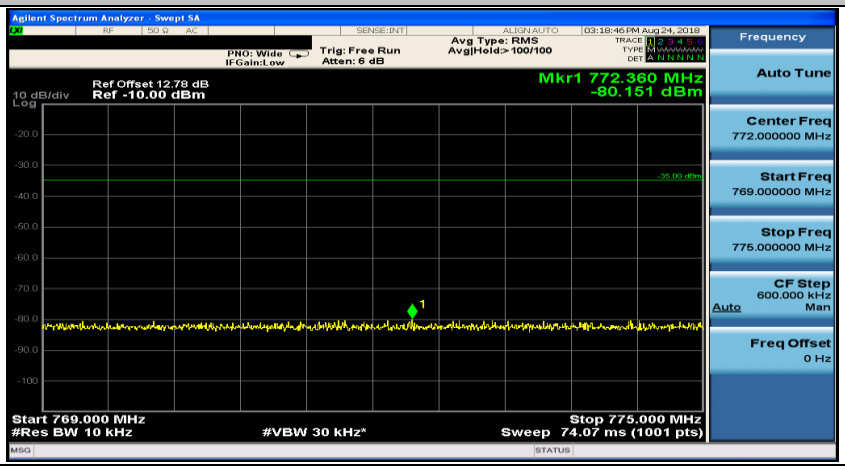
(Channel Bandwidth: 5 MHz)_LCH_16QAM_25RB#0

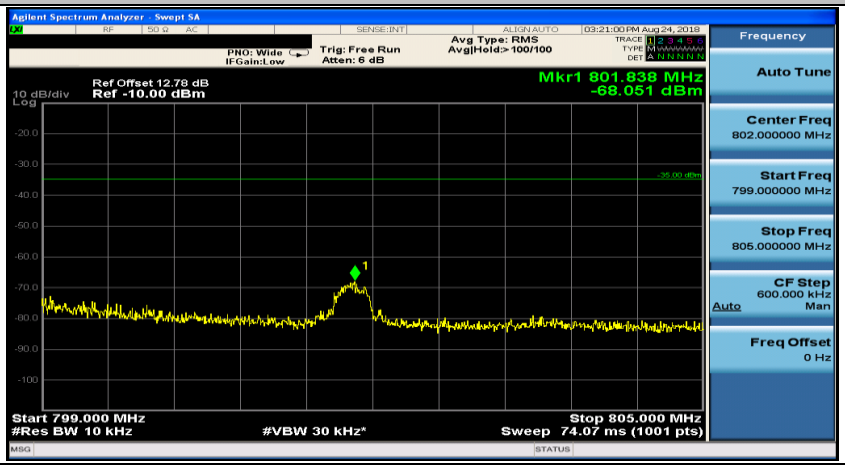


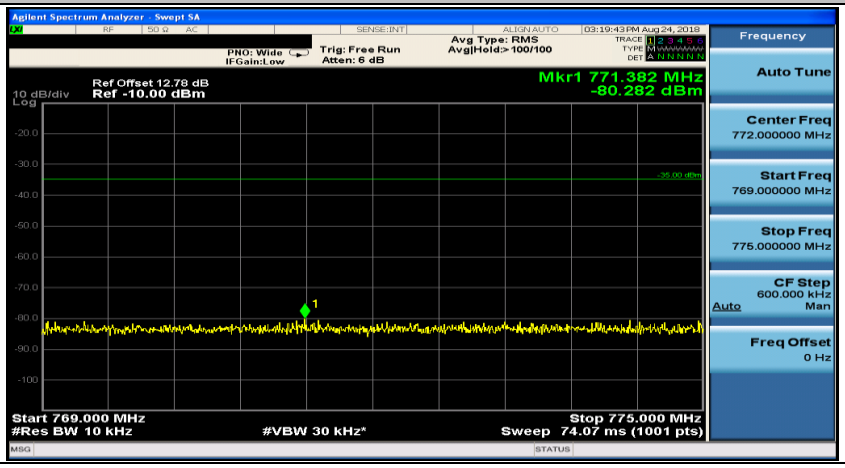
(Channel Bandwidth: 5 MHz)_HCH_16QAM_25RB#0

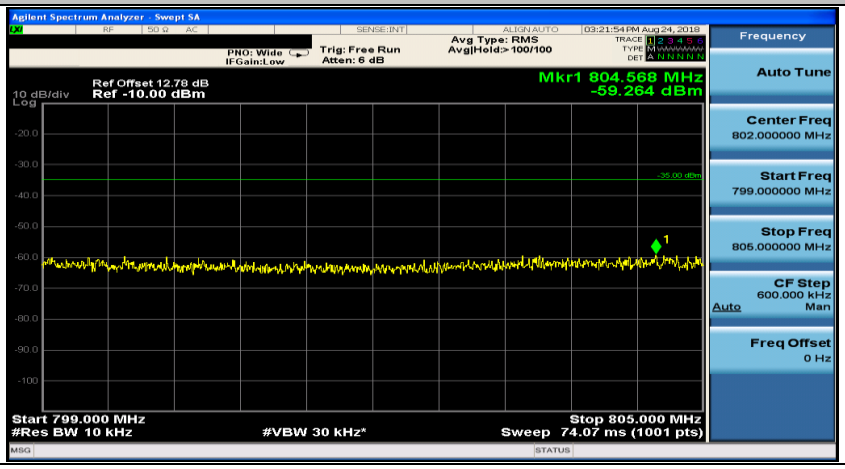


Channel Bandwidth: 10 MHz

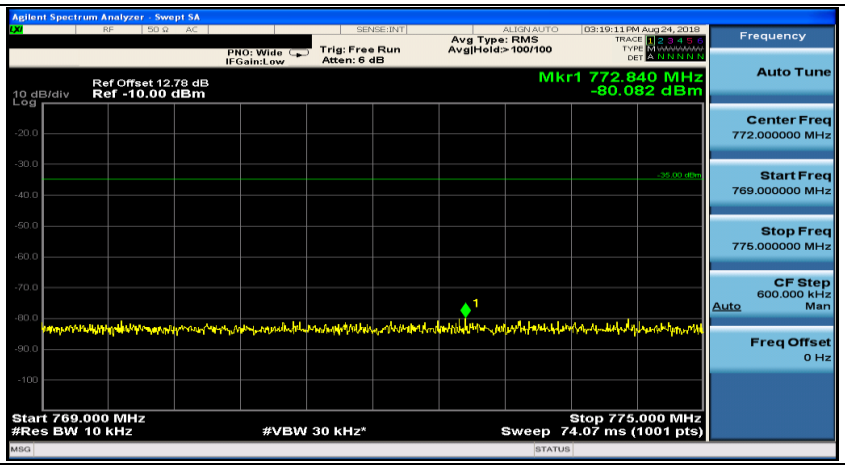
Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49


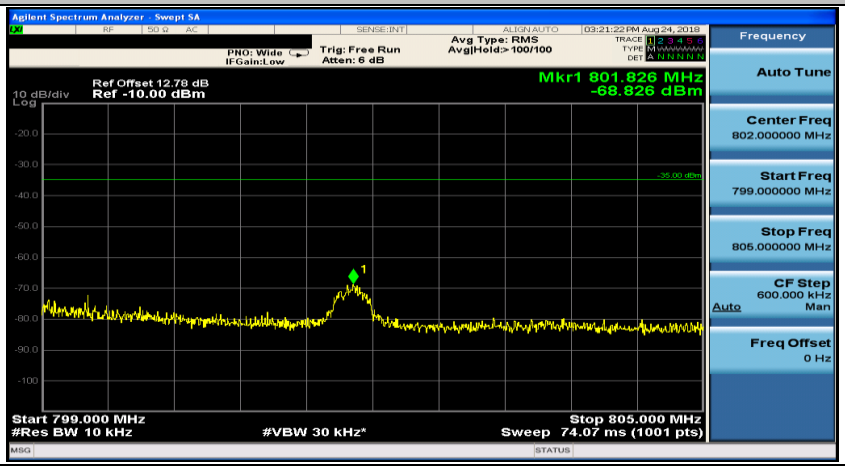
(Channel Bandwidth: 10 MHz)_LCH_QPSK_50RB#0


(Channel Bandwidth: 10 MHz)_HCH_QPSK_50RB#0


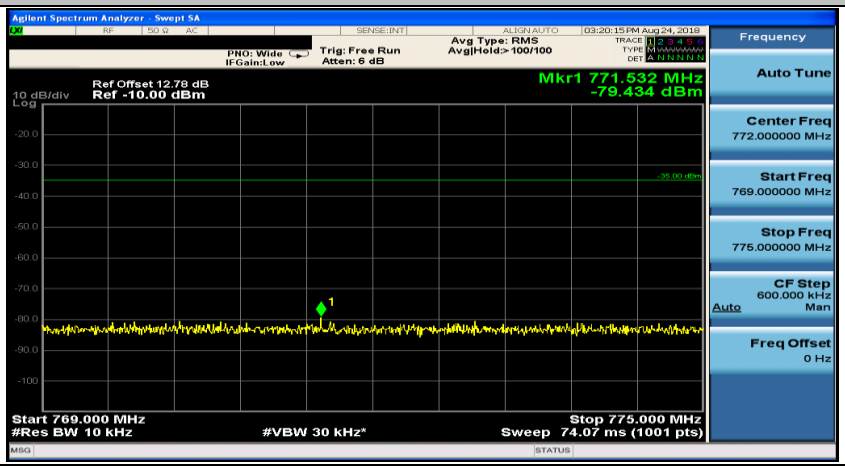
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

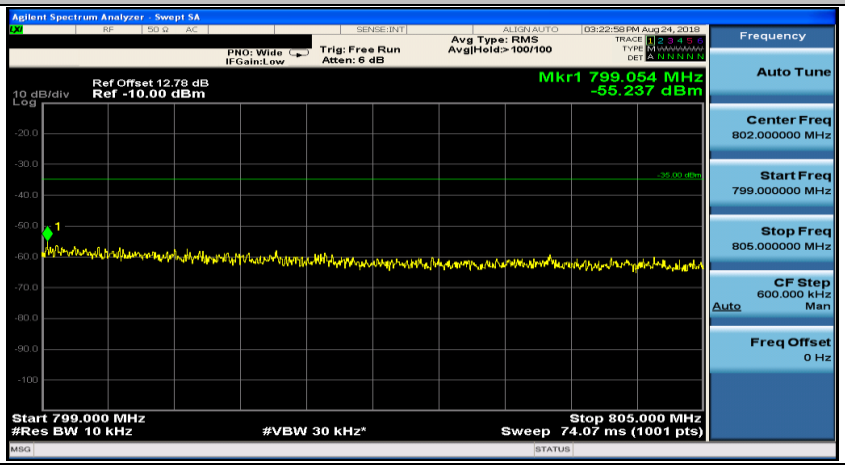


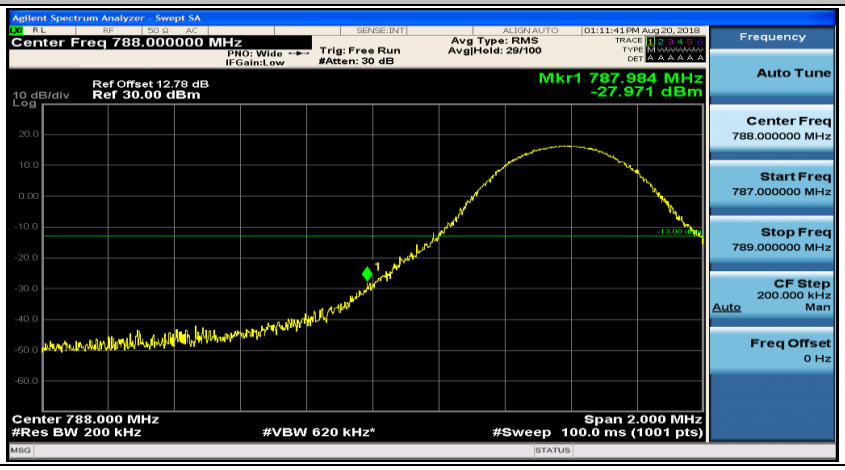
Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49



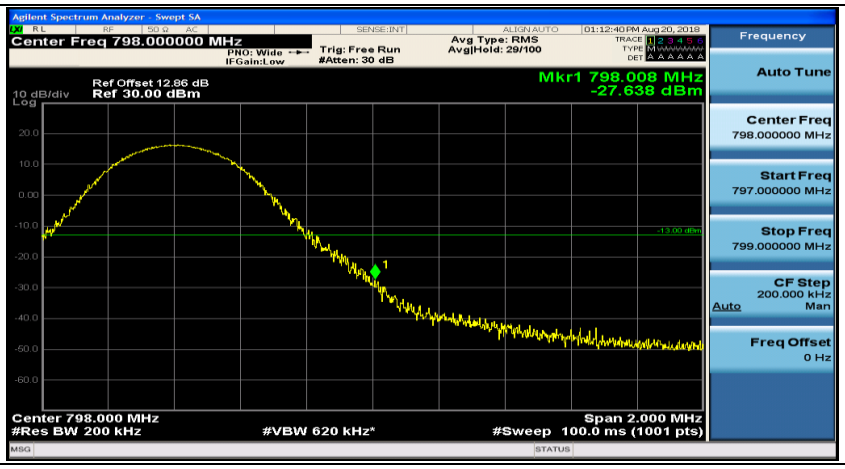
(Channel Bandwidth: 10 MHz)_LCH_16QAM_50RB#0



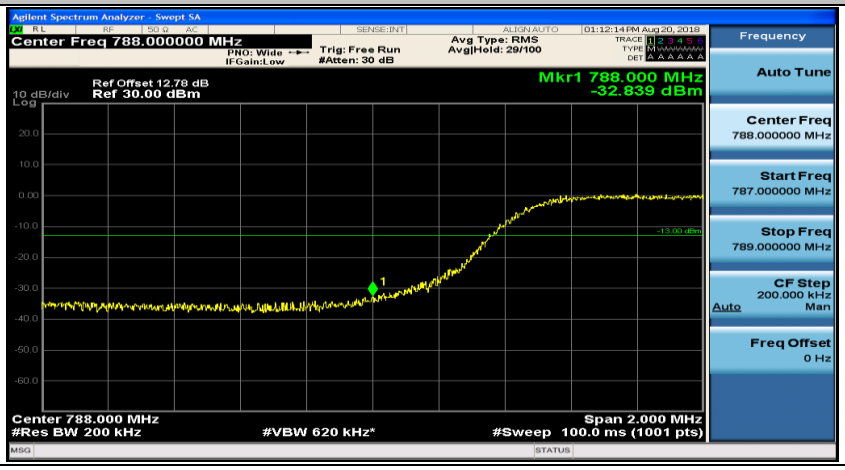
(Channel Bandwidth: 10 MHz)_HCH_16QAM_50RB#0


Channel Bandwidth: 10 MHz_LCH_QPSK_1RB#0


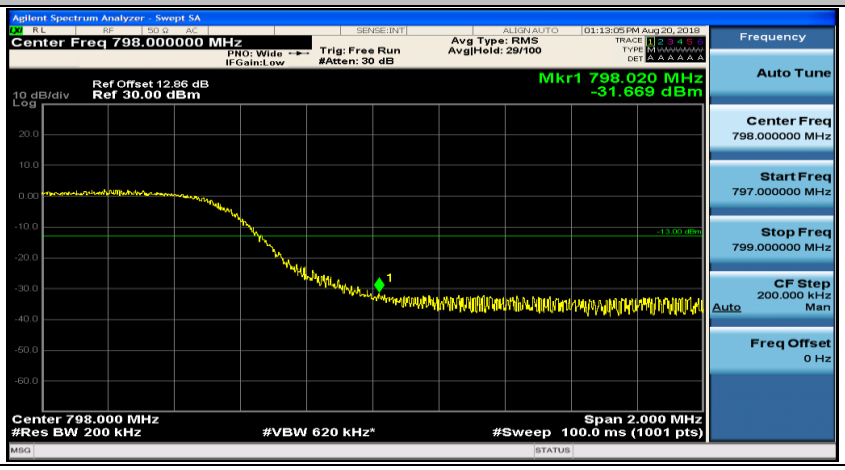
Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#49

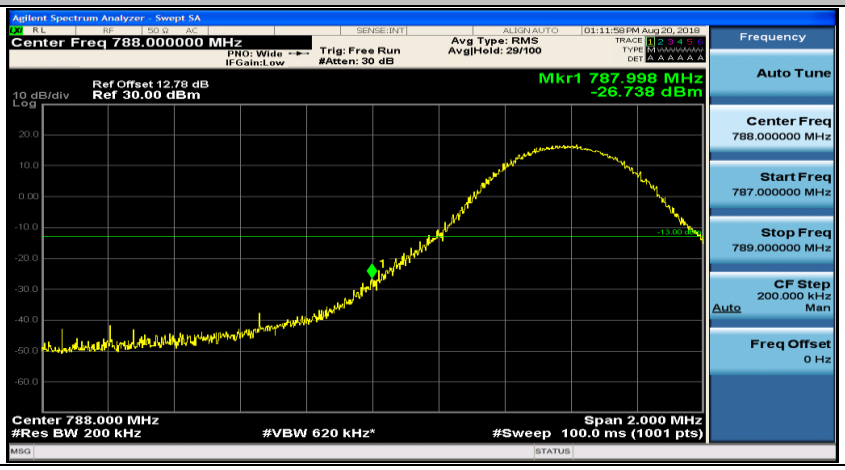


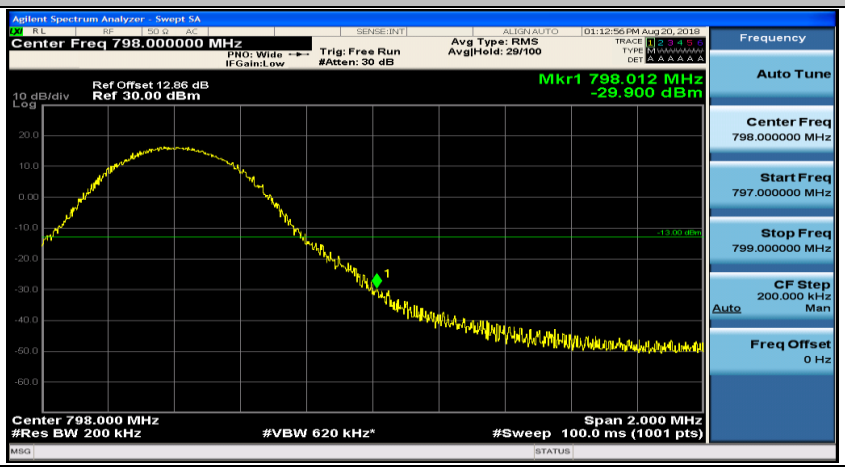
(Channel Bandwidth: 10 MHz)_LCH_QPSK_50RB#0



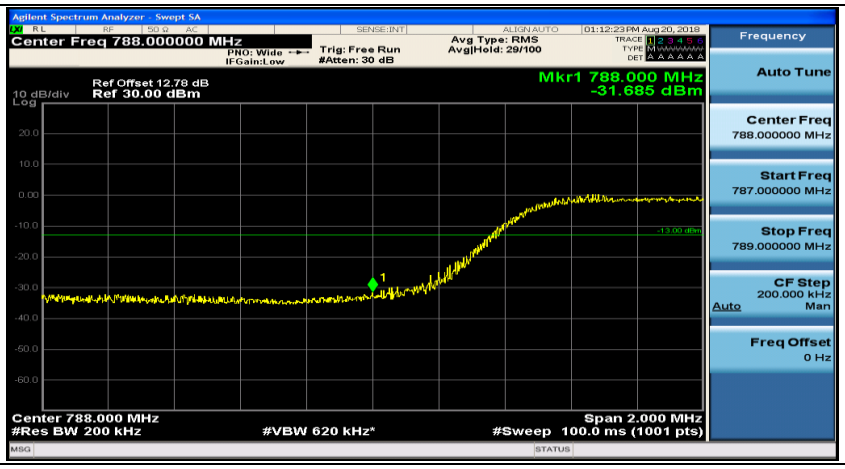
(Channel Bandwidth: 10 MHz)_HCH_QPSK_50RB#0



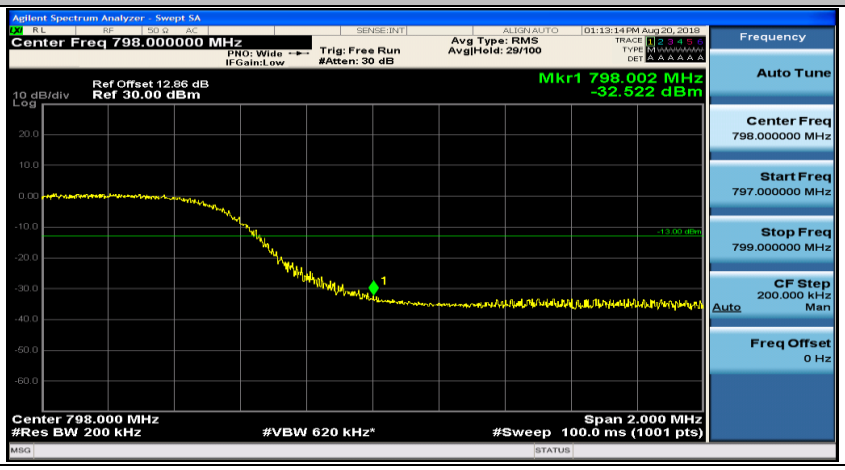
Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#49


(Channel Bandwidth: 10 MHz)_LCH_16QAM_50RB#0



(Channel Bandwidth: 10 MHz)_HCH_16QAM_50RB#0

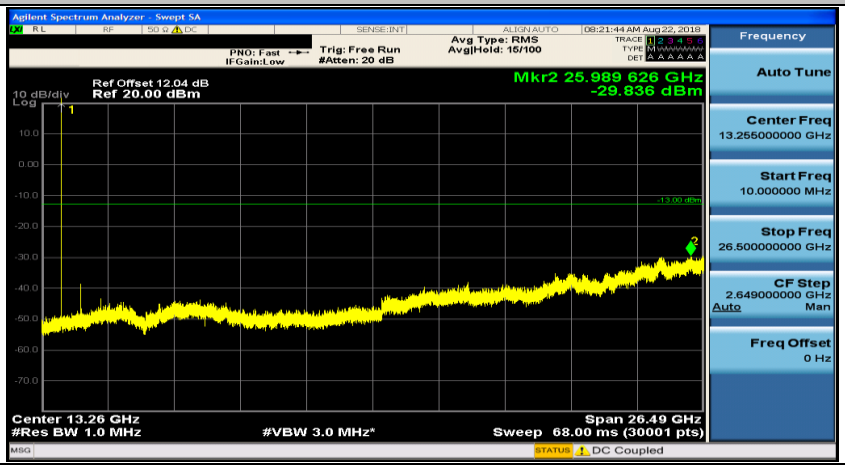


Appendix E: Conducted Spurious Emission

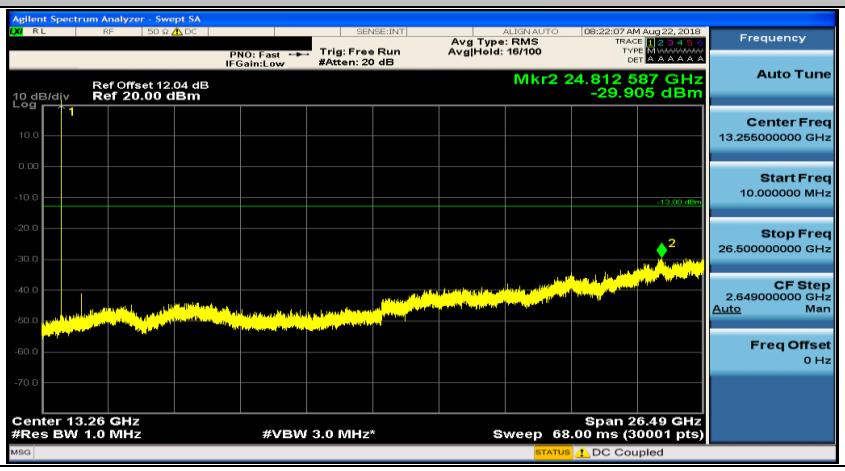
Test Graphs

Channel Bandwidth: 5 MHz

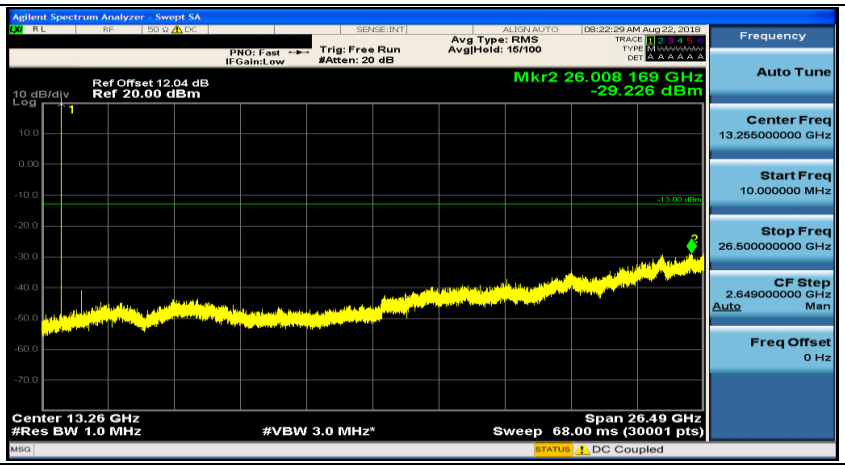
(Channel Bandwidth: 5 MHz)_LCH_QPSK_1RB#0



(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

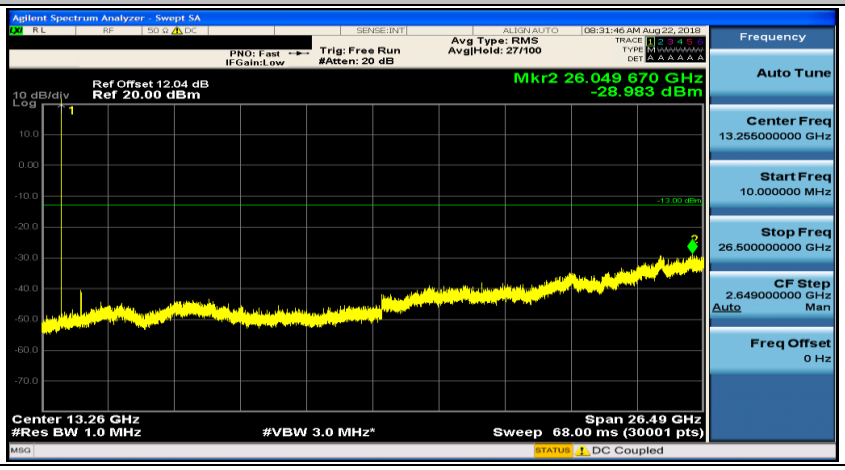


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0



Channel Bandwidth: 10 MHz

(Channel Bandwidth: 10 MHz)_MCH_QPSK_1RB#0



Appendix F: Frequency Stability

Test Result

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	-2.70	-0.003416	± 2.5	PASS
		VN	TN	-2.00	-0.002530	± 2.5	PASS
		VH	TN	-0.20	-0.000253	± 2.5	PASS
	MCH	VL	TN	-0.10	-0.000126	± 2.5	PASS
		VN	TN	-0.80	-0.001009	± 2.5	PASS
		VH	TN	-1.30	-0.001639	± 2.5	PASS
	HCH	VL	TN	-1.00	-0.001257	± 2.5	PASS
		VN	TN	-0.70	-0.000880	± 2.5	PASS
		VH	TN	-2.60	-0.003268	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-2.10	-0.002657	± 2.5	PASS
		VN	-20	-3.90	-0.004934	± 2.5	PASS
		VN	-10	-1.70	-0.002151	± 2.5	PASS
		VN	0	-1.90	-0.002404	± 2.5	PASS
		VN	10	-1.70	-0.002151	± 2.5	PASS
		VN	20	-2.60	-0.003289	± 2.5	PASS
		VN	30	-0.20	-0.000253	± 2.5	PASS
		VN	40	-3.20	-0.004048	± 2.5	PASS
		VN	50	-2.20	-0.002783	± 2.5	PASS
	MCH	VN	-30	1.30	0.001639	± 2.5	PASS
		VN	-20	-0.10	-0.000126	± 2.5	PASS
		VN	-10	-1.10	-0.001387	± 2.5	PASS
		VN	0	0.00	0.000000	± 2.5	PASS
		VN	10	1.20	0.001513	± 2.5	PASS
		VN	20	-1.00	-0.001261	± 2.5	PASS
		VN	30	-1.90	-0.002396	± 2.5	PASS
		VN	40	-3.00	-0.003783	± 2.5	PASS
		VN	50	-0.50	-0.000631	± 2.5	PASS
	HCH	VN	-30	-1.40	-0.001760	± 2.5	PASS
		VN	-20	-0.10	-0.000126	± 2.5	PASS
		VN	-10	0.90	0.001131	± 2.5	PASS
		VN	0	-0.80	-0.001006	± 2.5	PASS

		VN	10	1.40	0.001760	± 2.5	PASS
		VN	20	0.90	0.001131	± 2.5	PASS
		VN	30	0.70	0.000880	± 2.5	PASS
		VN	40	0.00	0.000000	± 2.5	PASS
		VN	50	-0.30	-0.000377	± 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	MCH	VL	TN	-0.60	-0.000757	± 2.5	PASS
		VN	TN	0.30	0.000378	± 2.5	PASS
		VH	TN	0.10	0.000126	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	MCH	VN	-30	-0.60	-0.000757	± 2.5	PASS
		VN	-20	0.00	0.000000	± 2.5	PASS
		VN	-10	-0.80	-0.001009	± 2.5	PASS
		VN	0	-2.00	-0.002522	± 2.5	PASS
		VN	10	-1.20	-0.001513	± 2.5	PASS
		VN	20	-0.30	-0.000378	± 2.5	PASS
		VN	30	-0.40	-0.000504	± 2.5	PASS
		VN	40	-1.00	-0.001261	± 2.5	PASS
		VN	50	-1.30	-0.001639	± 2.5	PASS