1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Test Band: 12 _ 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.40	22.50	22.29	2.85	5.00	25.25	25.35	25.14	34.77	PASS
		2	22.39	22.39	22.23	2.85	5.00	25.24	25.24	25.08	34.77	PASS
		5	22.48	22.43	22.31	2.85	5.00	25.33	25.28	25.16	34.77	PASS
	3	0	22.42	22.54	22.32	2.85	5.00	25.27	25.39	25.17	34.77	PASS
		2	22.41	22.52	22.32	2.85	5.00	25.26	25.37	25.17	34.77	PASS
		3	22.40	22.48	22.33	2.85	5.00	25.25	25.33	25.18	34.77	PASS
	6	0	21.51	21.54	21.40	2.85	5.00	24.36	24.39	24.25	34.77	PASS
16QAM	1		21.66	21.77	21.45	2.85	5.00	24.51	24.62	24.3	34.77	PASS
		2	21.64	21.73	21.40	2.85	5.00	24.49	24.58	24.25	34.77	PASS
		5	21.75	21.75	21.47	2.85	5.00	24.6	24.6	24.32	34.77	PASS
	3	0	21.49	21.56	21.44	2.85	5.00	24.34	24.41	24.29	34.77	PASS
		2	21.46	21.62	21.48	2.85	5.00	24.31	24.47	24.33	34.77	PASS
		3	21.43	21.55	21.45	2.85	5.00	24.28	24.4	24.3	34.77	PASS
	6	0	20.40	20.41	20.31	2.85	5.00	23.25	23.26	23.16	34.77	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi) 3) ERP = Conducted output power + Antenna gain (dBd)												

Test Band: 12 _ 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.46	22.39	22.50	2.85	5.00	25.31	25.24	25.35	34.77	PASS
		7	22.47	22.36	22.30	2.85	5.00	25.32	25.21	25.15	34.77	PASS
		14	22.39	22.34	22.30	2.85	5.00	25.24	25.19	25.15	34.77	PASS
	8	0	21.51	21.54	21.54	2.85	5.00	24.36	24.39	24.39	34.77	PASS
		4	21.52	21.51	21.37	2.85	5.00	24.37	24.36	24.22	34.77	PASS
		7	21.56	21.50	21.33	2.85	5.00	24.41	24.35	24.18	34.77	PASS
	15	0	21.47	21.55	21.40	2.85	5.00	24.32	24.4	24.25	34.77	PASS
16QAM	1		21.50	21.67	21.94	2.85	5.00	24.35	24.52	24.79	34.77	PASS
		7	21.58	21.78	21.79	2.85	5.00	24.43	24.63	24.64	34.77	PASS
		14	21.45	21.75	21.71	2.85	5.00	24.3	24.6	24.56	34.77	PASS
	8	0	20.63	20.56	20.73	2.85	5.00	23.48	23.41	23.58	34.77	PASS
		4	20.66	20.55	20.52	2.85	5.00	23.51	23.4	23.37	34.77	PASS
		7	20.66	20.47	20.47	2.85	5.00	23.51	23.32	23.32	34.77	PASS
	15	0	20.52	20.55	20.38	2.85	5.00	23.37	23.4	23.23	34.77	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi) 3) ERP = Conducted output power + Antenna gain (dBd)												

Test Band: 12 _ 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	22.40	22.38	22.57	2.85	5.00	25.25	25.23	25.42	34.77	PASS
		13	22.41	22.47	22.50	2.85	5.00	25.26	25.32	25.35	34.77	PASS
		24	22.29	22.34	22.26	2.85	5.00	25.14	25.19	25.11	34.77	PASS
	12	0	21.58	21.59	21.56	2.85	5.00	24.43	24.44	24.41	34.77	PASS
		6	21.52	21.58	21.51	2.85	5.00	24.37	24.43	24.36	34.77	PASS

		13	21.47	21.48	21.41	2.85	5.00	24.32	24.33	24.26	34.77	PASS
	25	0	21.54	21.48	21.56	2.85	5.00	24.39	24.33	24.41	34.77	PASS
			21.55	21.48	21.36	2.85	5.00	24.4	24.33	24.21	34.77	PASS
	1	13	21.60	21.59	21.32	2.85	5.00	24.45	24.44	24.17	34.77	PASS
		24	21.43	21.49	21.10	2.85	5.00	24.28	24.34	23.95	34.77	PASS
16QAM		0	20.56	20.61	20.55	2.85	5.00	23.41	23.46	23.4	34.77	PASS
	12	6	20.53	20.67	20.50	2.85	5.00	23.38	23.52	23.35	34.77	PASS
		13	20.47	20.61	20.43	2.85	5.00	23.32	23.46	23.28	34.77	PASS
	25	0	20.51	20.63	20.52	2.85	5.00	23.36	23.48	23.37	34.77	PASS

Note:
1) dBd = dBi - 2.15
2) EIRP = Conducted output power + Antenna gain (dBi)
3) ERP = Conducted output power + Antenna gain (dBd)

Test Band: 12 _ 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		ERP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
		0	22.43	22.45	22.41	2.85	5.00	25.28	25.3	25.26	34.77	PASS
	1	25	22.35	22.47	22.47	2.85	5.00	25.2	25.32	25.32	34.77	PASS
		49	22.25	22.29	22.10	2.85	5.00	25.1	25.14	24.95	34.77	PASS
QPSK		0	21.56	21.45	21.52	2.85	5.00	24.41	24.3	24.37	34.77	PASS
	25	13	21.46	21.50	21.47	2.85	5.00	24.31	24.35	24.32	34.77	PASS
		25	21.47	21.46	21.45	2.85	5.00	24.32	24.31	24.3	34.77	PASS
	50	0	21.45	21.51	21.46	2.85	5.00	24.3	24.36	24.31	34.77	PASS
			21.61	21.72	21.93	2.85	5.00	24.46	24.57	24.78	34.77	PASS
	1	25	21.57	21.80	22.00	2.85	5.00	24.42	24.65	24.85	34.77	PASS
		49	21.44	21.64	21.63	2.85	5.00	24.29	24.49	24.48	34.77	PASS
16QAM		0	20.58	20.48	20.57	2.85	5.00	23.43	23.33	23.42	34.77	PASS
	25	13	20.48	20.52	20.52	2.85	5.00	23.33	23.37	23.37	34.77	PASS
		25	20.47	20.43	20.57	2.85	5.00	23.32	23.28	23.42	34.77	PASS
	50	0	20.43	20.48	20.50	2.85	5.00	23.28	23.33	23.35	34.77	PASS

Note:
1) dBd = dBi - 2.15
2) EIRP = Conducted output power + Antenna gain (dBi)
3) ERP = Conducted output power + Antenna gain (dBd)

2. Frequency stability

2.1 Test Result

Test Band: 12 _ 1.4MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NT	LV	2.0000	1.0000	2.0000	0.0034	0.0020	0.0031	2.50	PASS
				NV	2.0000	1.0000	2.0000	0.0038	0.0016	0.0036	2.50	PASS
				HV	2.0000	1.0000	2.0000	0.0038	0.0026	0.0033	2.50	PASS
16QAM	6	0	NT	LV	2.0000	3.0000	2.0000	0.0036	0.0053	0.0035	2.50	PASS
				NV	3.0000	3.0000	3.0000	0.0043	0.0045	0.0045	2.50	PASS
				HV	2.0000	2.0000	3.0000	0.0039	0.0039	0.0052	2.50	PASS

Test Band: 12 _ 1.4MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	6	0	NV	-30.00	1.0000	1.0000	2.0000	0.0028	0.0022	0.0039	2.50	PASS
				-20.00	1.0000	2.0000	3.0000	0.0027	0.0032	0.0043	2.50	PASS
				-10.00	1.0000	1.0000	1.0000	0.0026	0.0023	0.0020	2.50	PASS
				0.00	2.0000	2.0000	2.0000	0.0039	0.0030	0.0030	2.50	PASS
				10.00	2.0000	2.0000	2.0000	0.0035	0.0031	0.0036	2.50	PASS
				20.00	2.0000	1.0000	2.0000	0.0036	0.0028	0.0035	2.50	PASS
				30.00	2.0000	1.0000	2.0000	0.0030	0.0019	0.0030	2.50	PASS
				40.00	1.0000	1.0000	1.0000	0.0020	0.0016	0.0021	2.50	PASS
				50.00	3.0000	0.0000	2.0000	0.0047	0.0008	0.0040	2.50	PASS
16QAM	6	0	NV	-30.00	2.0000	3.0000	2.0000	0.0039	0.0054	0.0041	2.50	PASS
				-20.00	1.0000	3.0000	3.0000	0.0023	0.0055	0.0044	2.50	PASS
				-10.00	3.0000	3.0000	2.0000	0.0048	0.0056	0.0037	2.50	PASS
				0.00	3.0000	4.0000	3.0000	0.0044	0.0061	0.0052	2.50	PASS
				10.00	2.0000	4.0000	2.0000	0.0041	0.0061	0.0039	2.50	PASS
				20.00	2.0000	3.0000	3.0000	0.0036	0.0043	0.0047	2.50	PASS
				30.00	3.0000	4.0000	2.0000	0.0044	0.0063	0.0039	2.50	PASS
				40.00	3.0000	2.0000	2.0000	0.0048	0.0042	0.0036	2.50	PASS
				50.00	3.0000	3.0000	2.0000	0.0043	0.0056	0.0035	2.50	PASS

Test Band: 12 _ 3MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NT	LV	1.0000	1.0000	0.0000	0.0027	0.0017	0.0013	2.50	PASS
				NV	1.0000	1.0000	0.0000	0.0021	0.0019	0.0007	2.50	PASS
				HV	1.0000	1.0000	0.0000	0.0023	0.0022	0.0004	2.50	PASS
16QAM	15	0	NT	LV	1.0000	0.0000	0.0000	0.0026	0.0011	0.0014	2.50	PASS
				NV	2.0000	2.0000	0.0000	0.0034	0.0029	0.0005	2.50	PASS
				HV	2.0000	1.0000	0.0000	0.0030	0.0019	0.0006	2.50	PASS

Test Band: 12 _ 3MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	15	0	NV	-30.00	2.0000	1.0000	1.0000	0.0030	0.0024	0.0018	2.50	PASS
				-20.00	1.0000	0.0000	0.0000	0.0027	0.0010	0.0002	2.50	PASS
				-10.00	1.0000	1.0000	0.0000	0.0016	0.0017	0.0014	2.50	PASS
				0.00	1.0000	0.0000	1.0000	0.0026	0.0013	0.0027	2.50	PASS
				10.00	2.0000	0.0000	0.0000	0.0037	0.0014	0.0006	2.50	PASS

				20.00	1.0000	0.0000	0.0000	0.0027	0.0007	0.0013	2.50	PASS
				30.00	2.0000	0.0000	0.0000	0.0030	0.0002	0.0006	2.50	PASS
				40.00	1.0000	0.0000	0.0000	0.0016	0.0006	0.0000	2.50	PASS
				50.00	1.0000	1.0000	0.0000	0.0025	0.0028	0.0011	2.50	PASS
16QAM	15	0	NV	-30.00	2.0000	1.0000	1.0000	0.0029	0.0018	0.0014	2.50	PASS
				-20.00	1.0000	0.0000	0.0000	0.0027	0.0012	0.0006	2.50	PASS
				-10.00	1.0000	1.0000	0.0000	0.0021	0.0024	-0.0003	2.50	PASS
				0.00	1.0000	1.0000	0.0000	0.0020	0.0026	0.0006	2.50	PASS
				10.00	2.0000	2.0000	1.0000	0.0030	0.0030	0.0015	2.50	PASS
				20.00	2.0000	1.0000	1.0000	0.0033	0.0023	0.0019	2.50	PASS
				30.00	2.0000	1.0000	0.0000	0.0033	0.0014	0.0005	2.50	PASS
				40.00	1.0000	1.0000	0.0000	0.0025	0.0025	0.0007	2.50	PASS
				50.00	2.0000	1.0000	0.0000	0.0040	0.0019	0.0012	2.50	PASS

Test Band: 12 _ 5MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NT	LV	1.0000	1.0000	2.0000	0.0015	0.0020	0.0029	2.50	PASS
				NV	2.0000	1.0000	1.0000	0.0034	0.0015	0.0027	2.50	PASS
				HV	1.0000	1.0000	2.0000	0.0015	0.0019	0.0031	2.50	PASS
16QAM	25	0	NT	LV	0.0000	1.0000	2.0000	0.0013	0.0026	0.0032	2.50	PASS
				NV	1.0000	1.0000	1.0000	0.0021	0.0015	0.0023	2.50	PASS
				HV	1.0000	0.0000	3.0000	0.0021	0.0013	0.0043	2.50	PASS

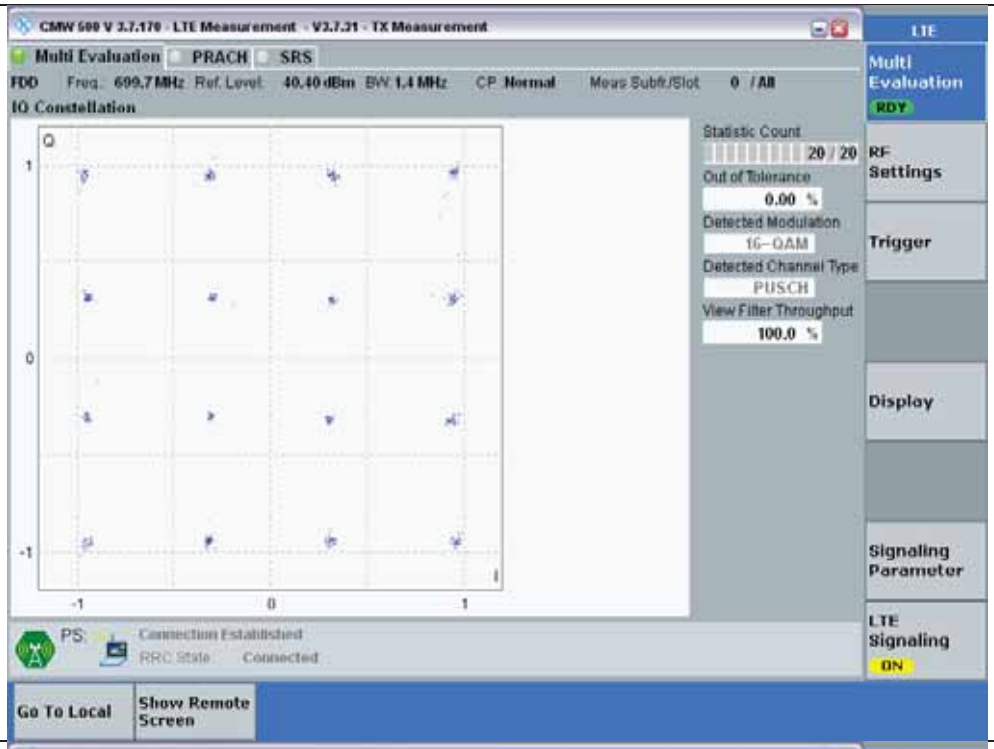
Test Band: 12 _ 5MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	25	0	NV	-30.00	1.0000	1.0000	1.0000	0.0025	0.0024	0.0020	2.50	PASS
				-20.00	2.0000	0.0000	2.0000	0.0030	0.0013	0.0031	2.50	PASS
				-10.00	2.0000	1.0000	2.0000	0.0031	0.0020	0.0029	2.50	PASS
				0.00	1.0000	1.0000	1.0000	0.0017	0.0025	0.0019	2.50	PASS
				10.00	1.0000	0.0000	2.0000	0.0019	0.0011	0.0032	2.50	PASS
				20.00	1.0000	0.0000	1.0000	0.0019	0.0014	0.0026	2.50	PASS
				30.00	1.0000	1.0000	2.0000	0.0021	0.0018	0.0035	2.50	PASS
				40.00	1.0000	1.0000	1.0000	0.0023	0.0017	0.0027	2.50	PASS
				50.00	0.0000	0.0000	1.0000	0.0014	0.0014	0.0026	2.50	PASS
16QAM	25	0	NV	-30.00	1.0000	2.0000	2.0000	0.0021	0.0035	0.0041	2.50	PASS
				-20.00	1.0000	2.0000	1.0000	0.0023	0.0032	0.0026	2.50	PASS
				-10.00	1.0000	0.0000	3.0000	0.0027	0.0014	0.0045	2.50	PASS
				0.00	1.0000	1.0000	2.0000	0.0019	0.0014	0.0035	2.50	PASS
				10.00	1.0000	2.0000	2.0000	0.0020	0.0034	0.0037	2.50	PASS
				20.00	1.0000	2.0000	1.0000	0.0016	0.0033	0.0023	2.50	PASS
				30.00	1.0000	1.0000	2.0000	0.0016	0.0016	0.0039	2.50	PASS
				40.00	1.0000	1.0000	2.0000	0.0017	0.0026	0.0039	2.50	PASS
				50.00	1.0000	2.0000	3.0000	0.0025	0.0030	0.0043	2.50	PASS

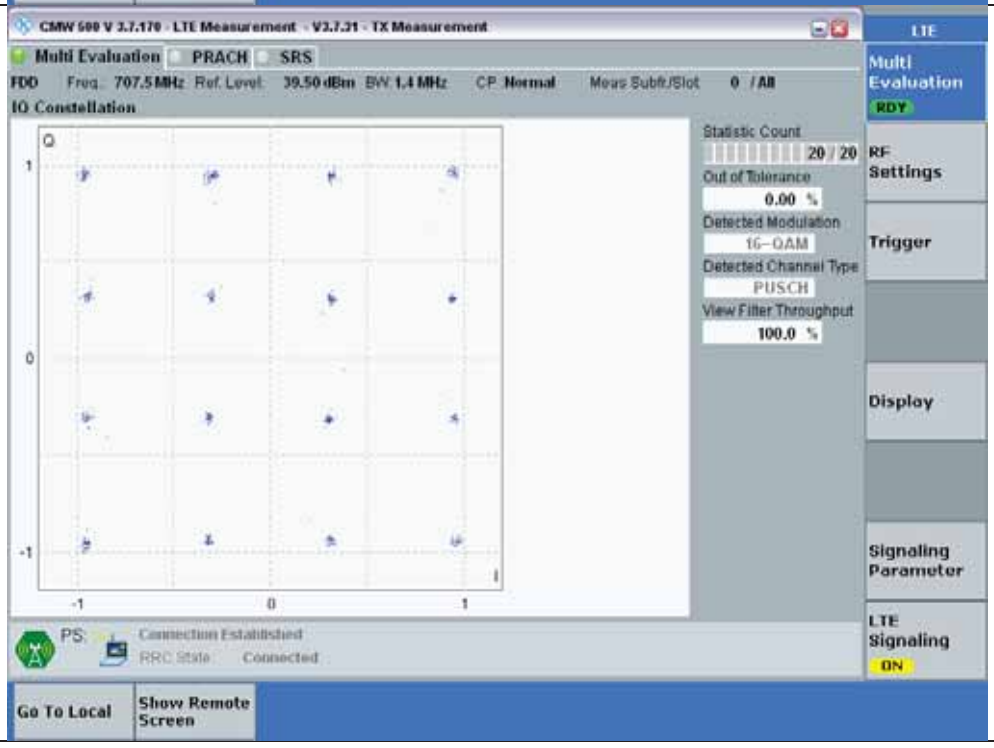
Test Band: 12 _ 10MHz Bandwidth (Frequency Error VS. Voltage)												
Test Mode	RB Allocation		Test Temp.	Test Volt.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NT	LV	2.0000	1.0000	0.0000	0.0031	0.0025	0.0011	2.50	PASS
				NV	1.0000	2.0000	0.0000	0.0018	0.0035	0.0006	2.50	PASS
				HV	2.0000	1.0000	0.0000	0.0036	0.0026	0.0008	2.50	PASS
16QAM	50	0	NT	LV	0.0000	2.0000	0.0000	-0.0009	0.0038	-0.0001	2.50	PASS
				NV	1.0000	1.0000	0.0000	0.0016	0.0015	0.0001	2.50	PASS
				HV	0.0000	1.0000	0.0000	0.0010	0.0016	0.0011	2.50	PASS

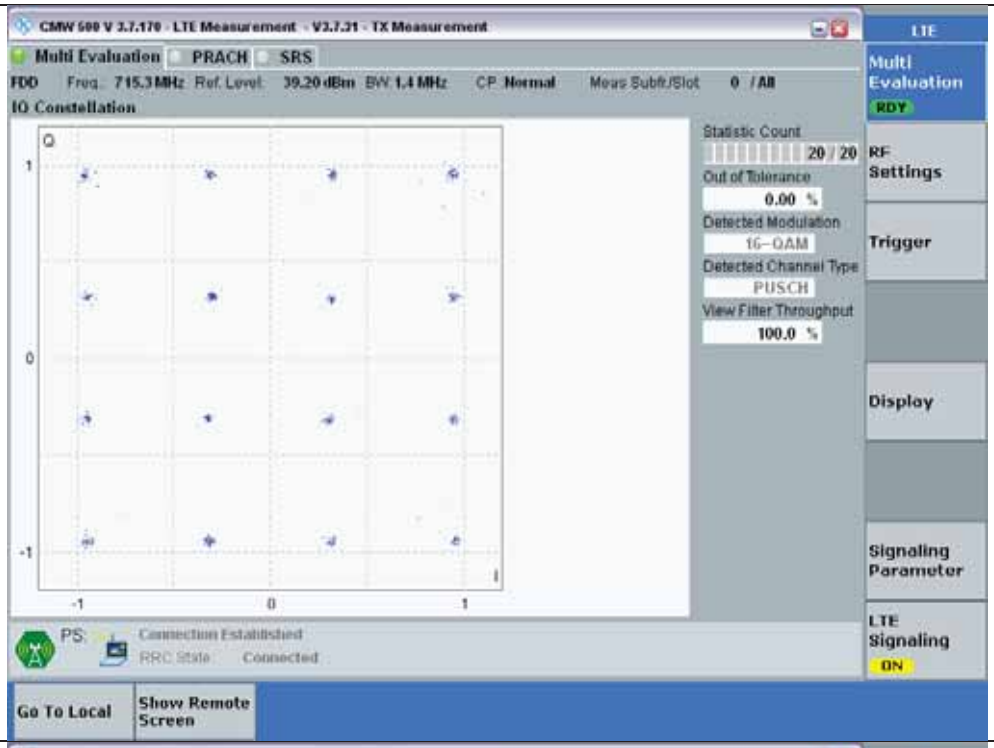
Test Band: 12 _ 10MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	50	0	NV	-30.00	1.0000	0.0000	0.0000	0.0027	-0.0002	0.0005	2.50	PASS
				-20.00	2.0000	0.0000	0.0000	0.0033	-0.0001	0.0001	2.50	PASS
				-10.00	1.0000	0.0000	1.0000	0.0021	0.0008	0.0018	2.50	PASS
				0.00	2.0000	1.0000	0.0000	0.0030	0.0016	0.0004	2.50	PASS
				10.00	2.0000	1.0000	0.0000	0.0030	0.0014	-0.0002	2.50	PASS
				20.00	2.0000	1.0000	0.0000	0.0042	0.0015	-0.0001	2.50	PASS
				30.00	1.0000	0.0000	1.0000	0.0020	-0.0001	0.0025	2.50	PASS
				40.00	2.0000	0.0000	0.0000	0.0035	-0.0001	0.0001	2.50	PASS
				50.00	2.0000	0.0000	0.0000	0.0029	-0.0005	0.0004	2.50	PASS
16QAM	50	0	NV	-30.00	0.0000	1.0000	0.0000	-0.0002	0.0018	0.0004	2.50	PASS
				-20.00	0.0000	0.0000	0.0000	-0.0011	-0.0004	0.0010	2.50	PASS
				-10.00	0.0000	1.0000	0.0000	-0.0001	0.0017	0.0000	2.50	PASS
				0.00	0.0000	0.0000	0.0000	0.0009	-0.0004	0.0011	2.50	PASS
				10.00	1.0000	0.0000	0.0000	0.0015	-0.0011	0.0007	2.50	PASS
				20.00	0.0000	0.0000	0.0000	0.0009	0.0009	0.0010	2.50	PASS
				30.00	1.0000	0.0000	0.0000	0.0015	-0.0003	0.0004	2.50	PASS
				40.00	0.0000	0.0000	2.0000	0.0010	0.0008	0.0032	2.50	PASS
				50.00	0.0000	0.0000	0.0000	0.0002	0.0002	0.0010	2.50	PASS

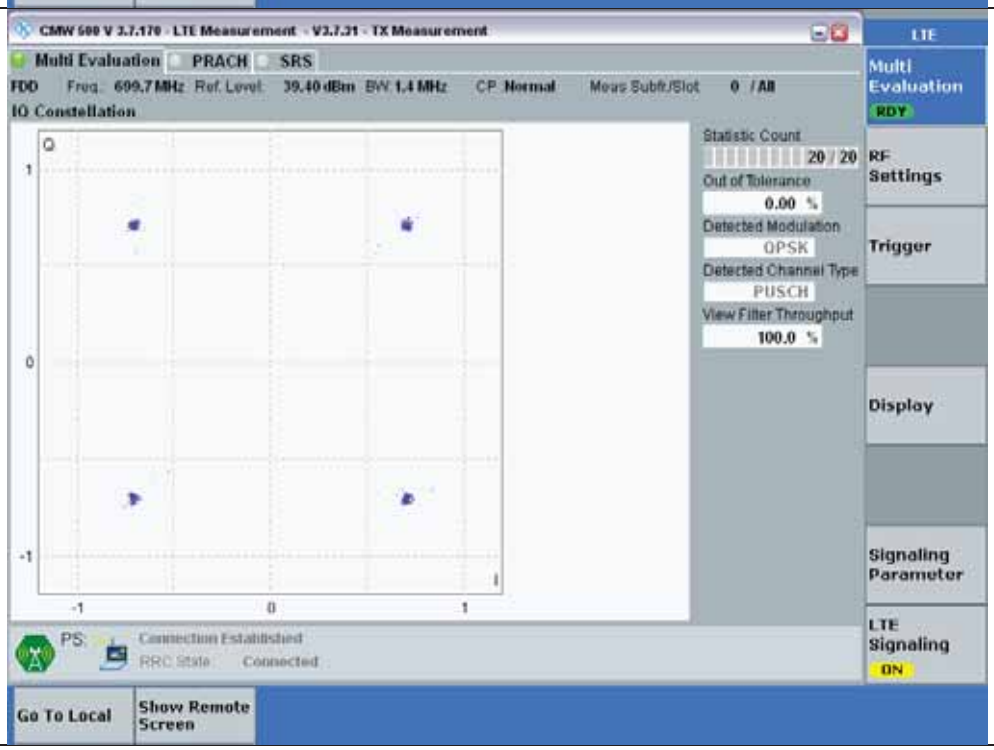
3. Modulation Characteristics

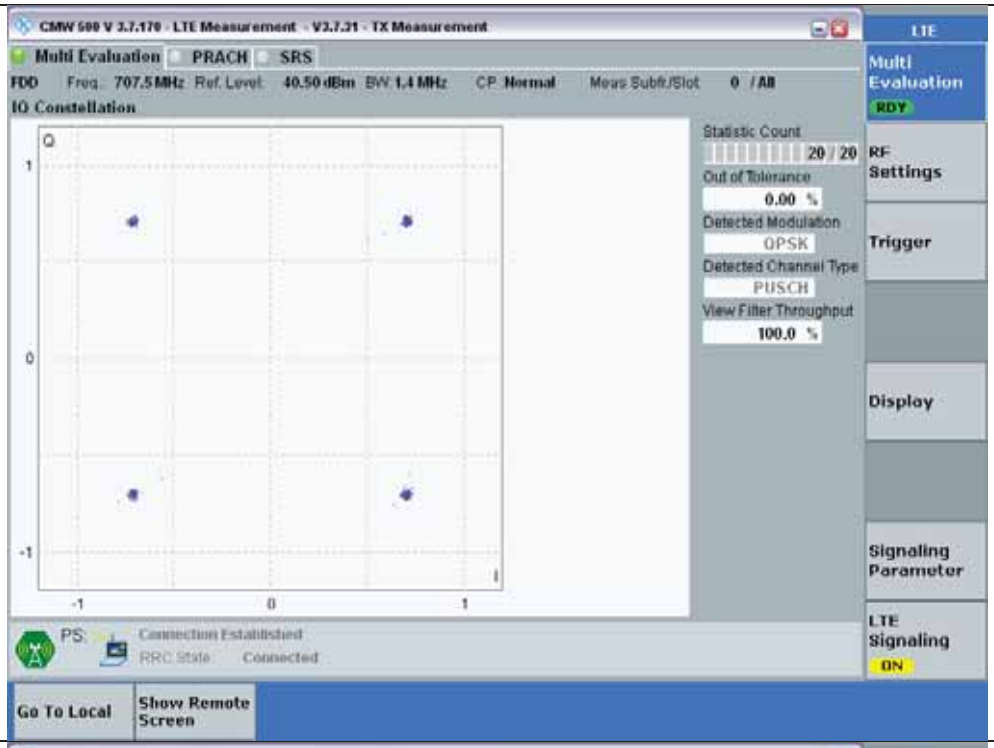
3.1 Test Graph

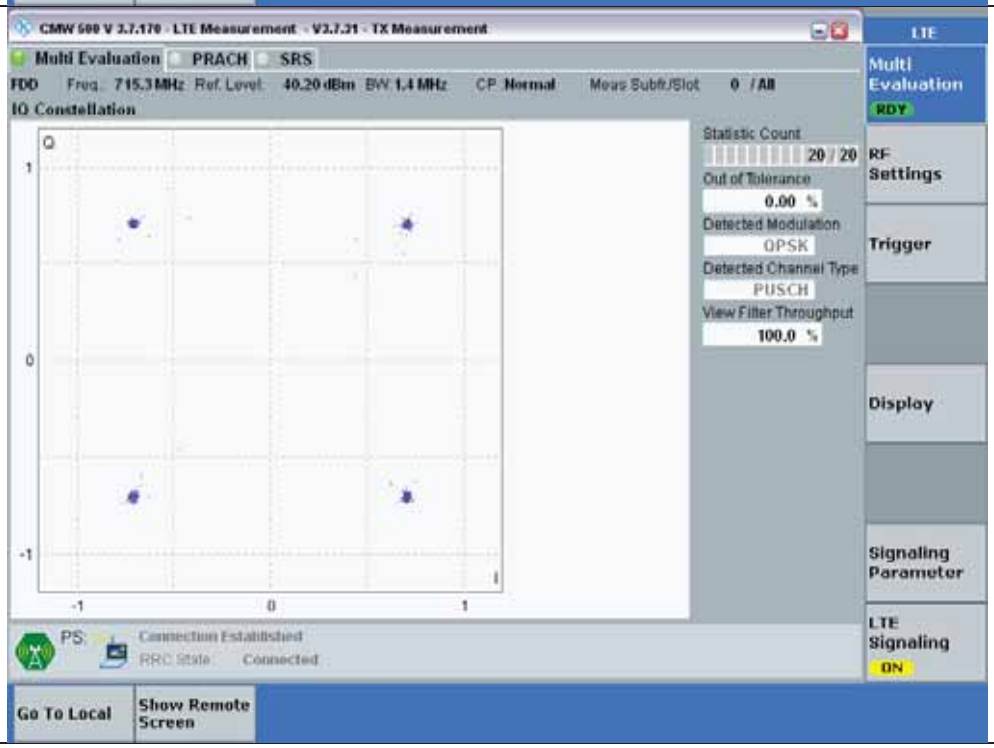




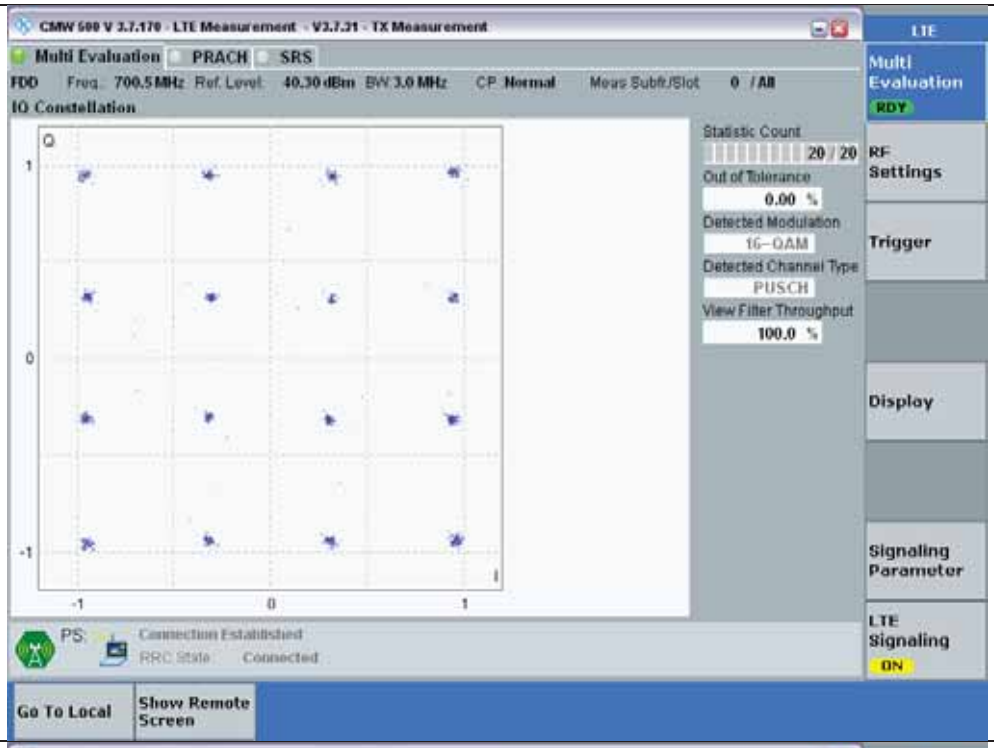

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 715.3 MHz Ref. Level: 39.20 dBm BW: 1.4 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
1
0
-1
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

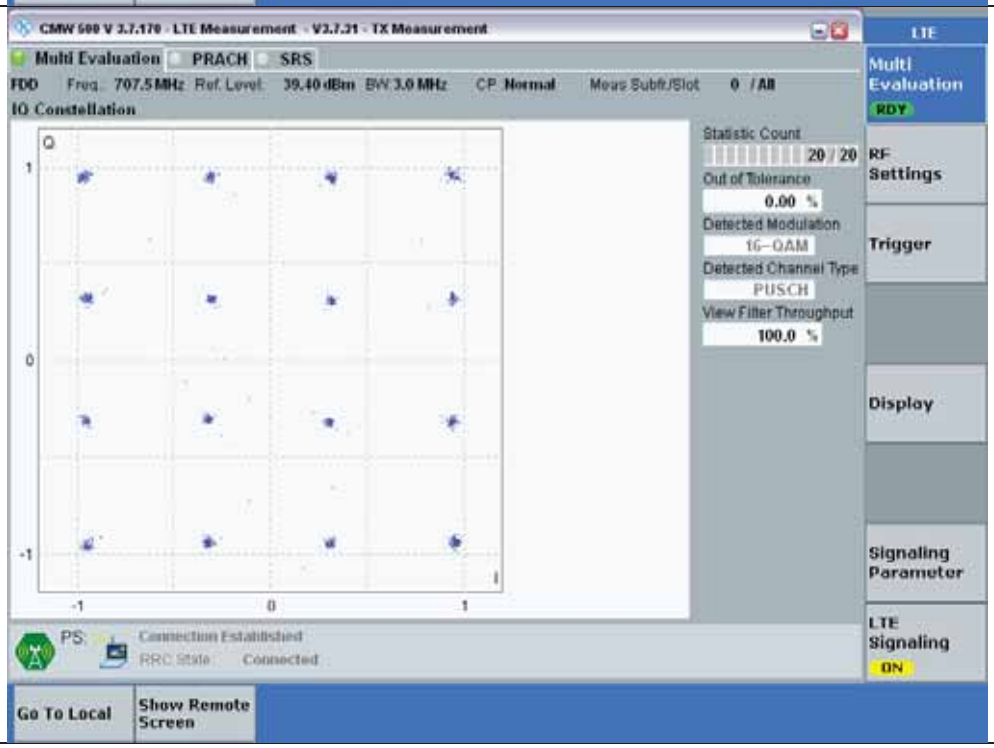

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 699.7 MHz Ref. Level: 39.40 dBm BW: 1.4 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
1
0
-1
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

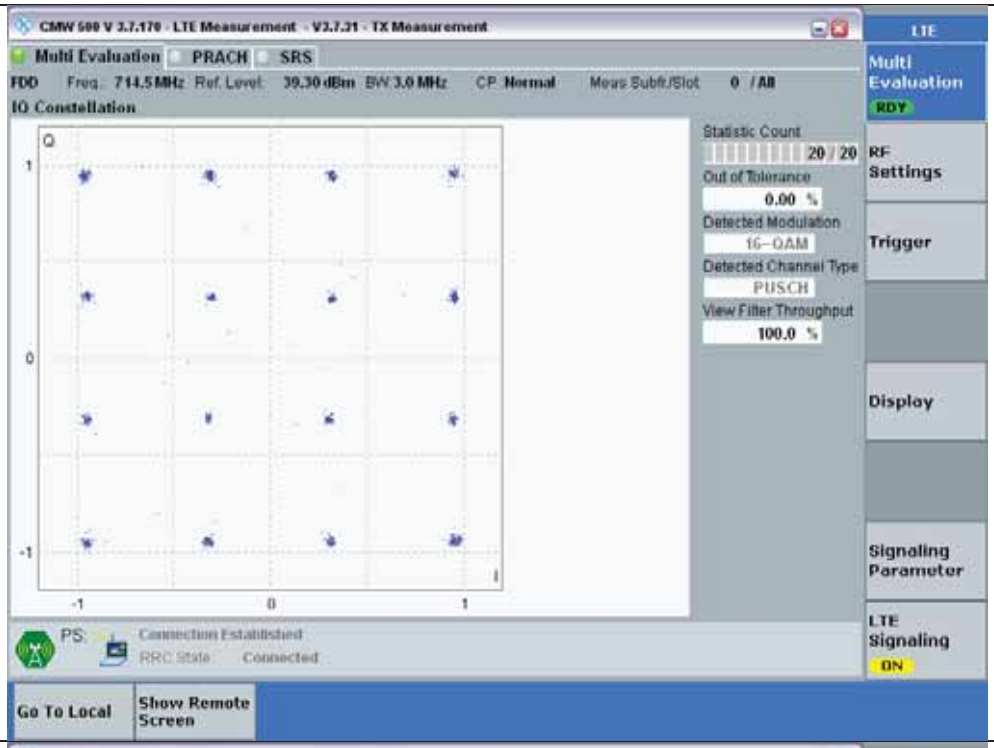


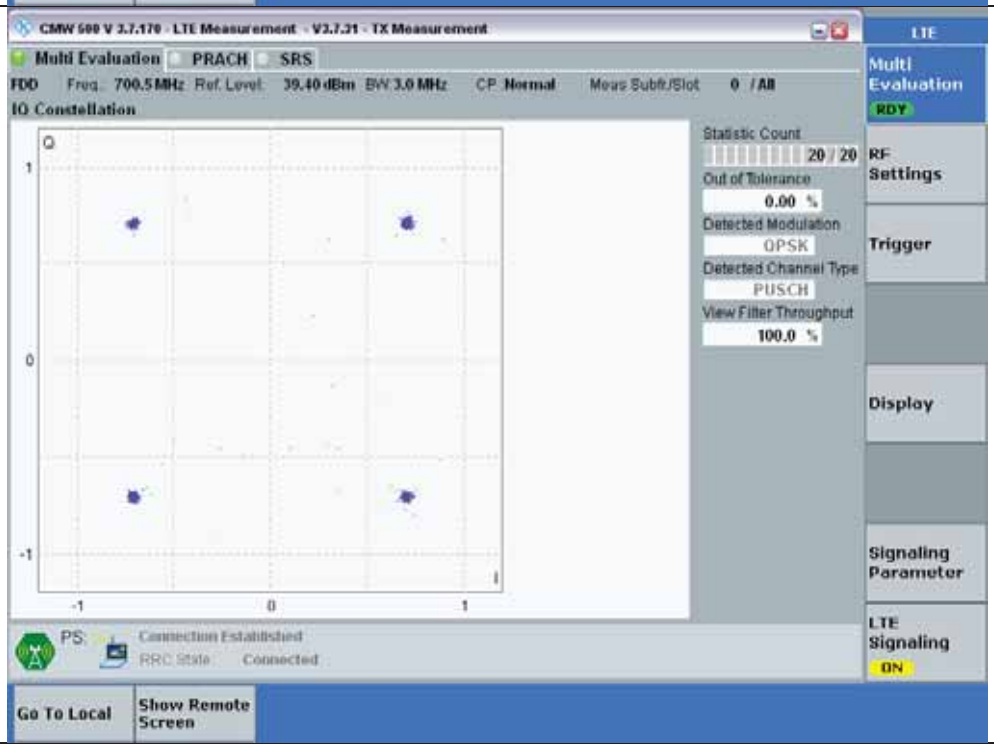


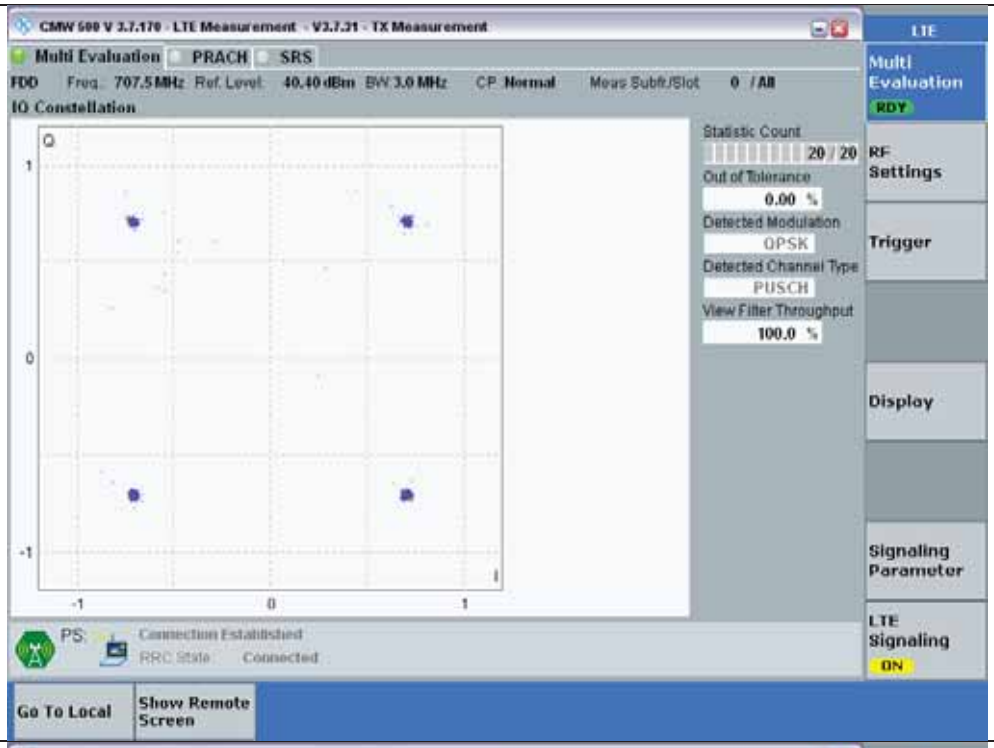
3.1 Test Graph

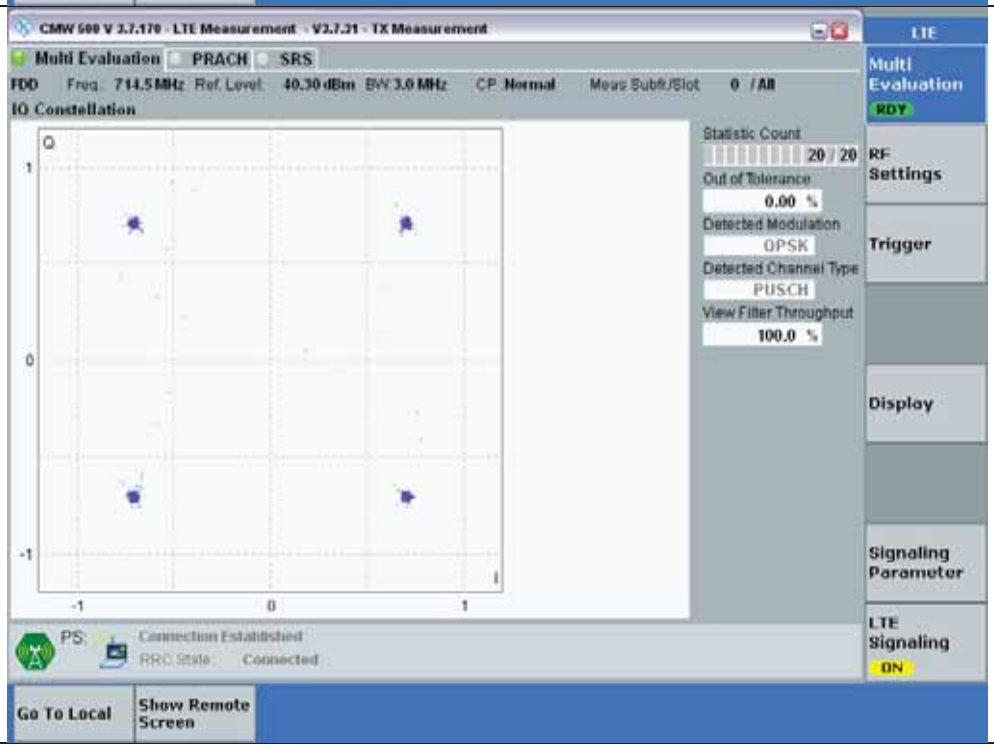

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 700.5 MHz Ref. Level: 40.30 dBm BW: 3.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen


CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 707.5 MHz Ref. Level: 39.40 dBm BW: 3.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

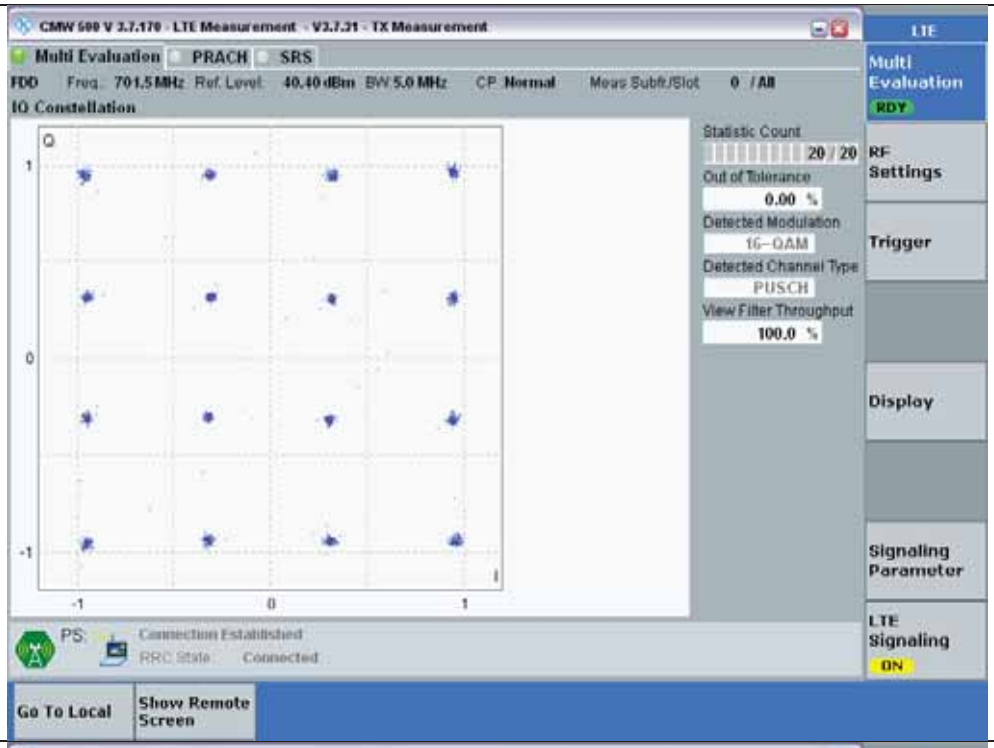

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 714.5 MHz Ref. Level: 39.30 dBm BW: 3.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

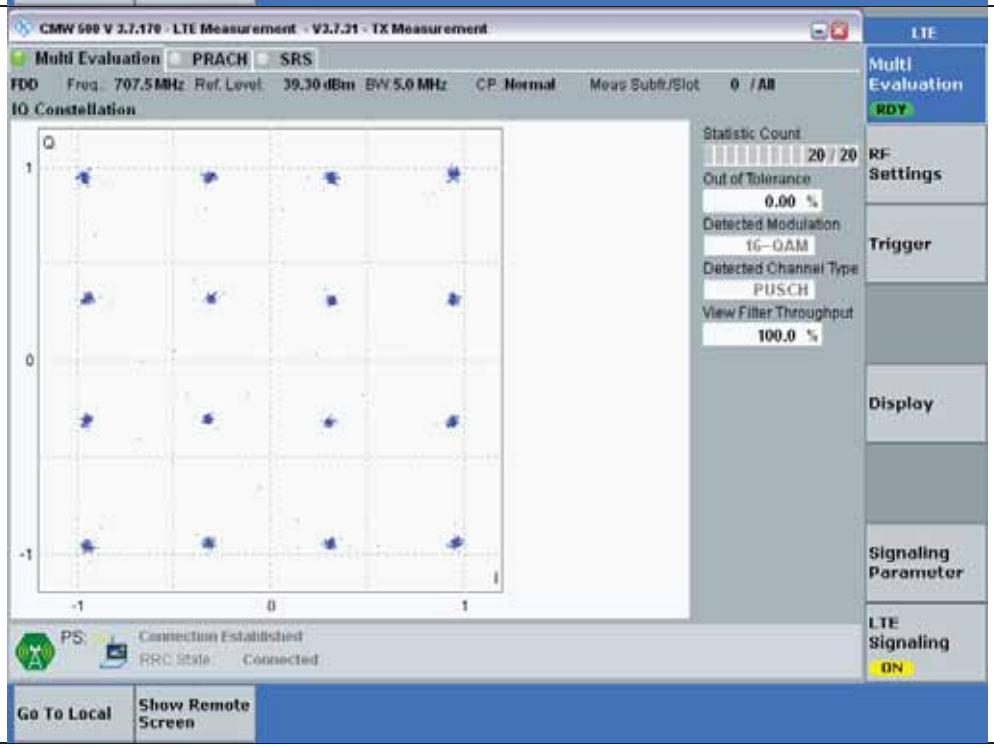

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 700.5 MHz Ref. Level: 39.40 dBm BW: 3.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

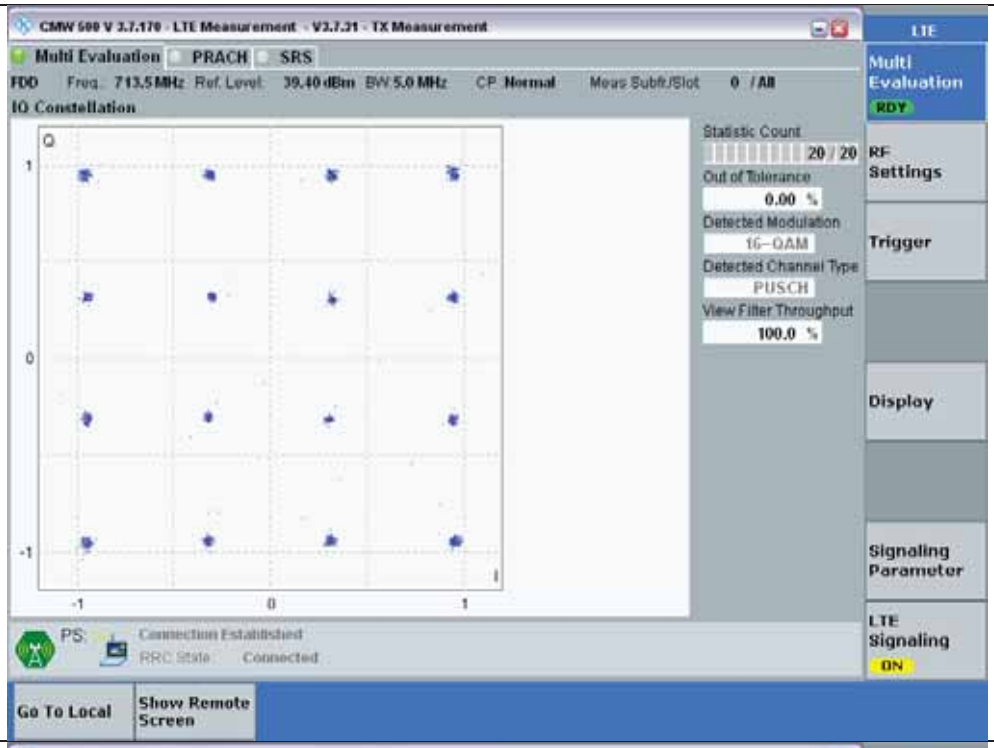


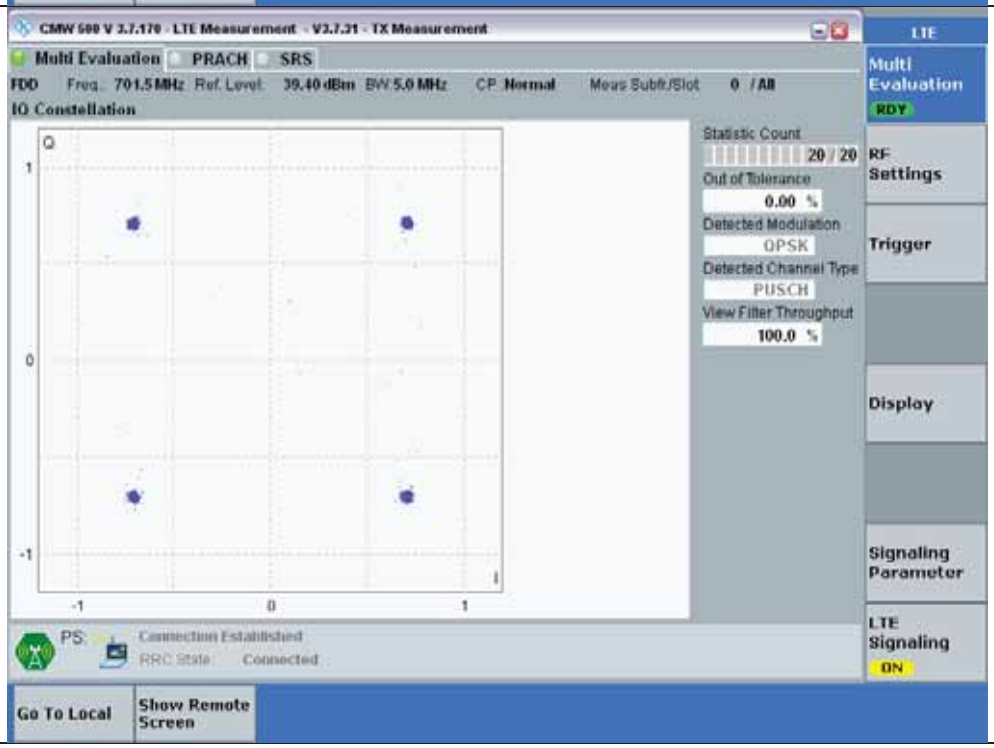


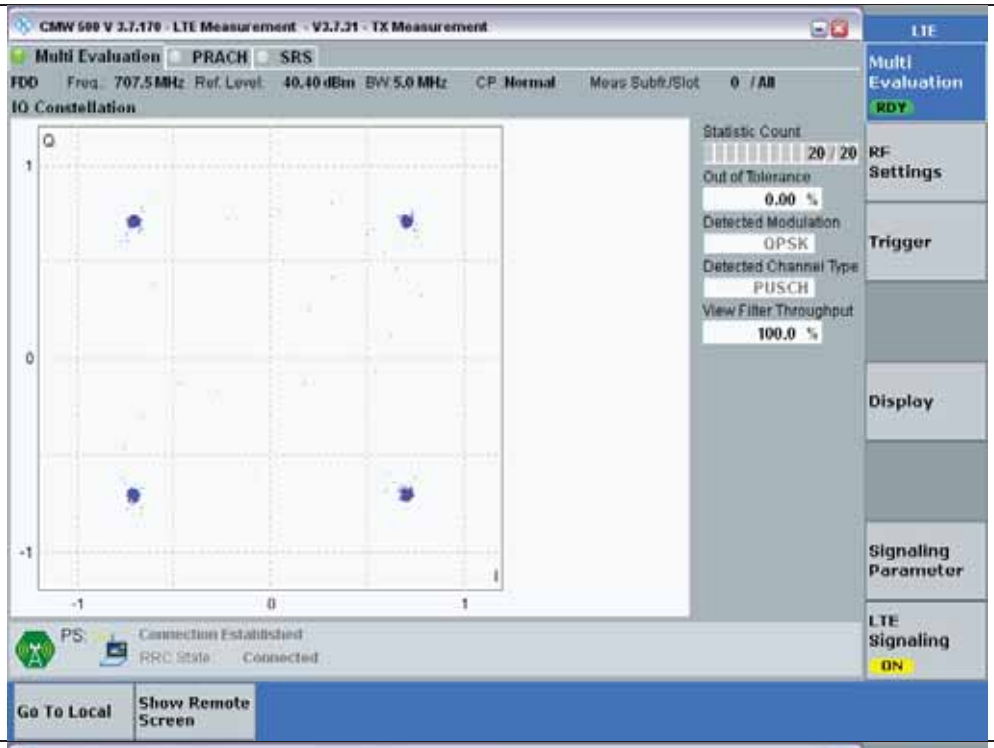
3.1 Test Graph

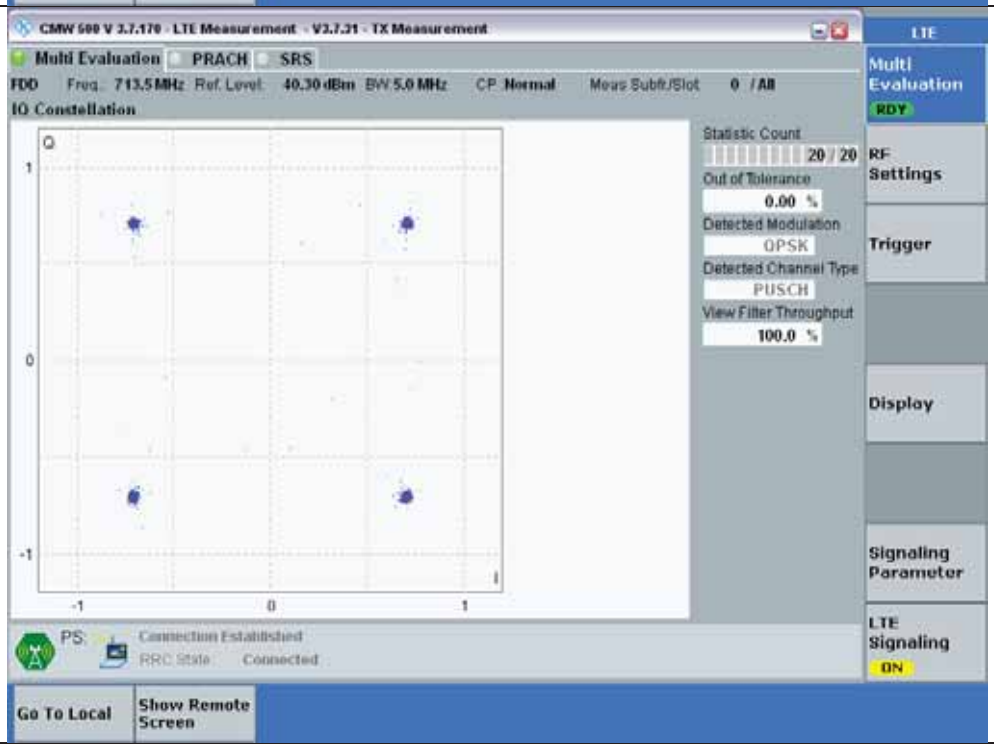

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 701.5 MHz Ref. Level: 40.40 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen


CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 707.5 MHz Ref. Level: 39.30 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

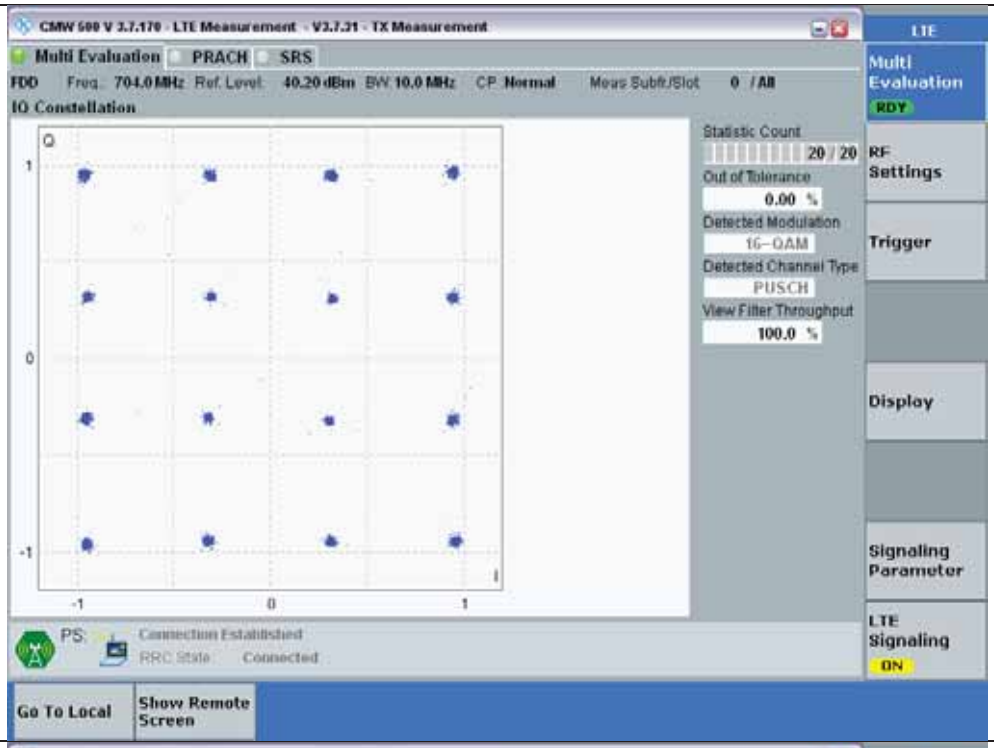

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 713.5 MHz Ref. Level: 39.40 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

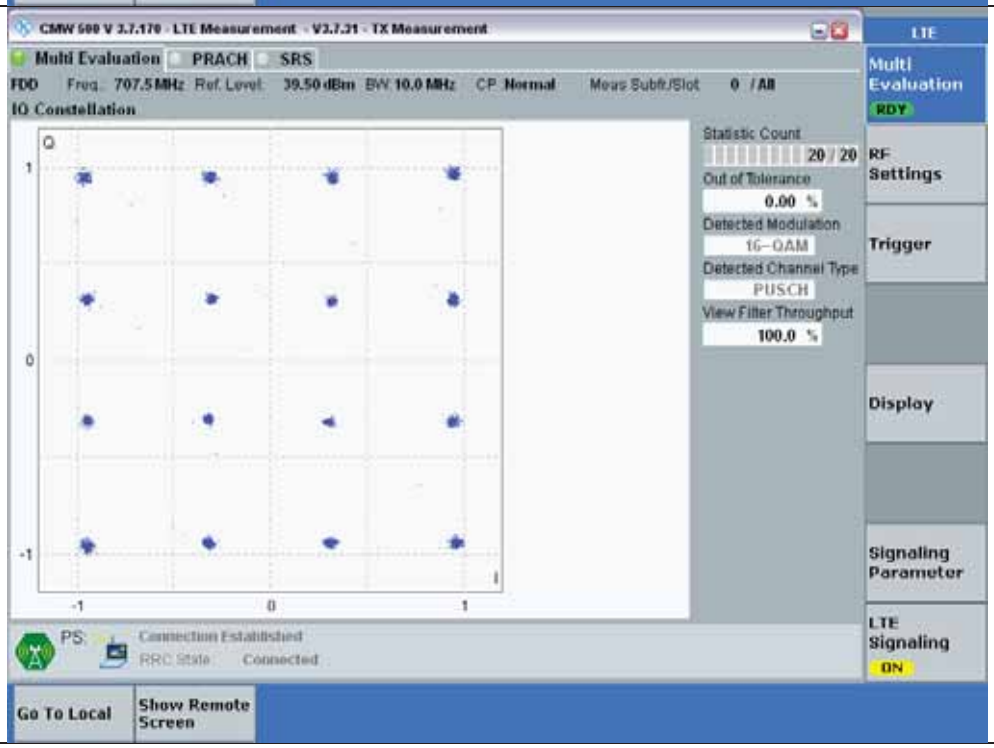

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 701.5 MHz Ref. Level: 39.40 dBm BW: 5.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

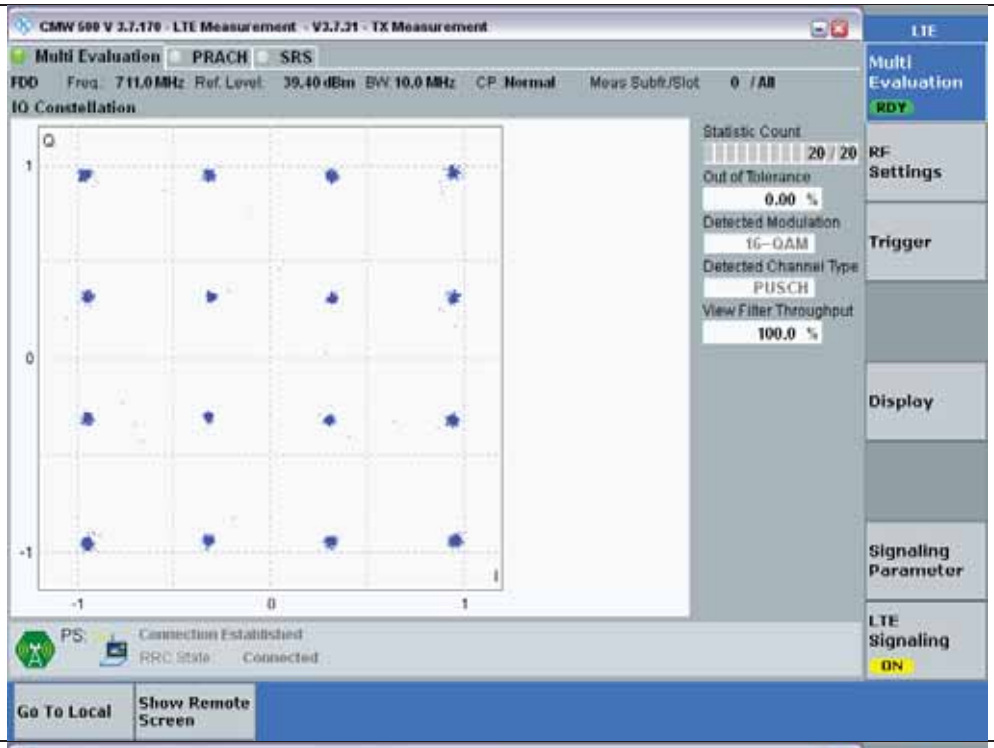


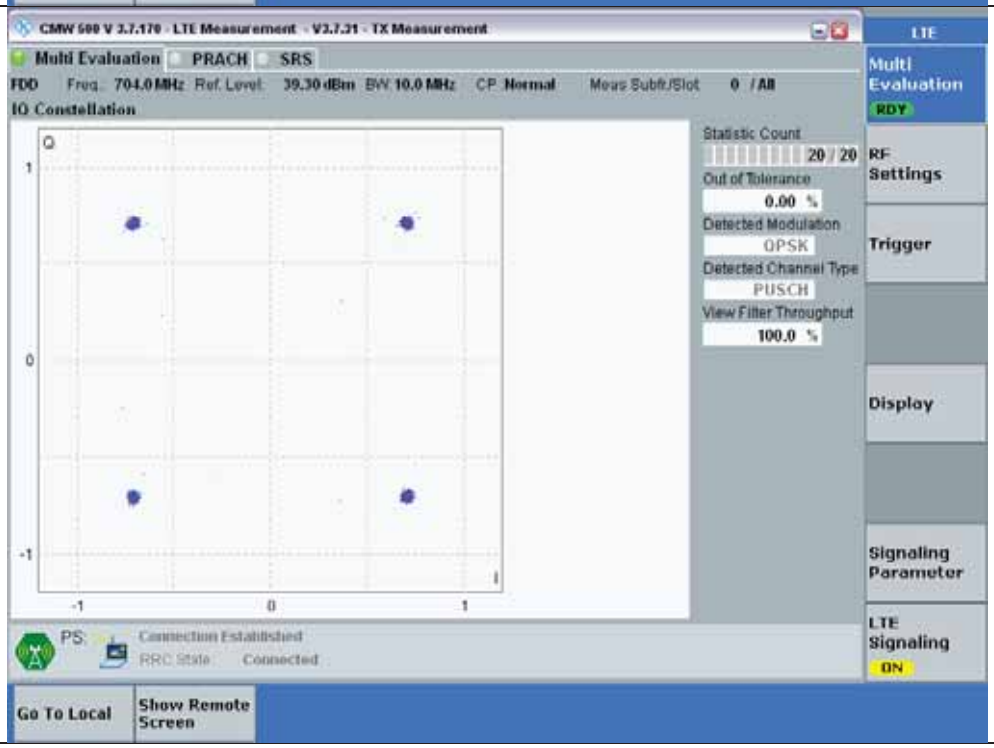


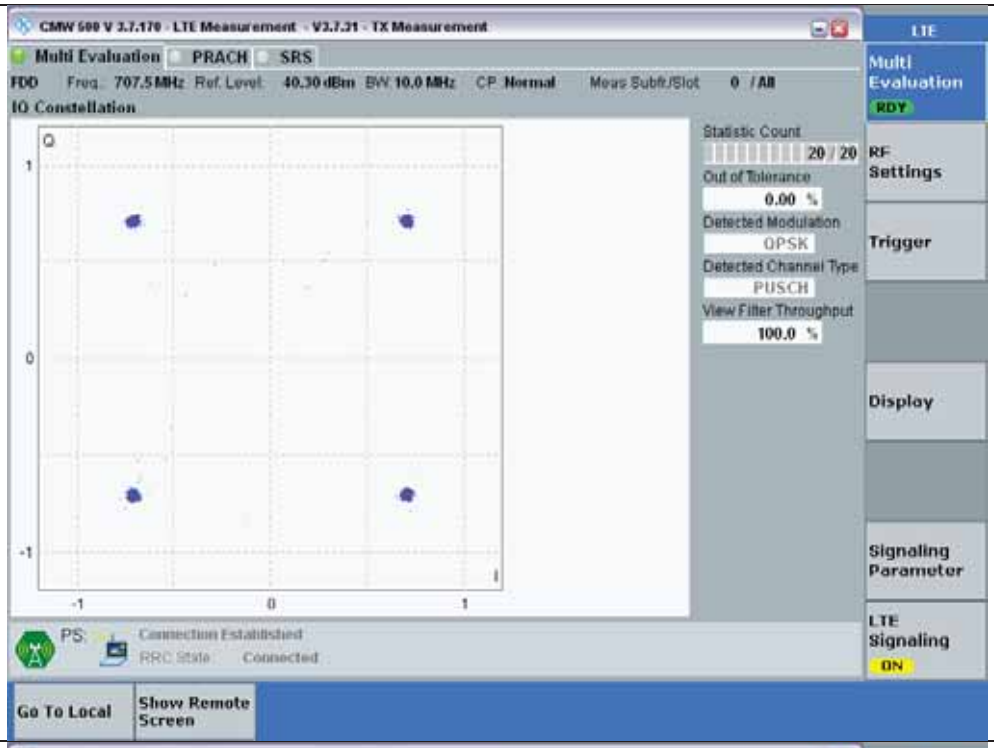
3.1 Test Graph

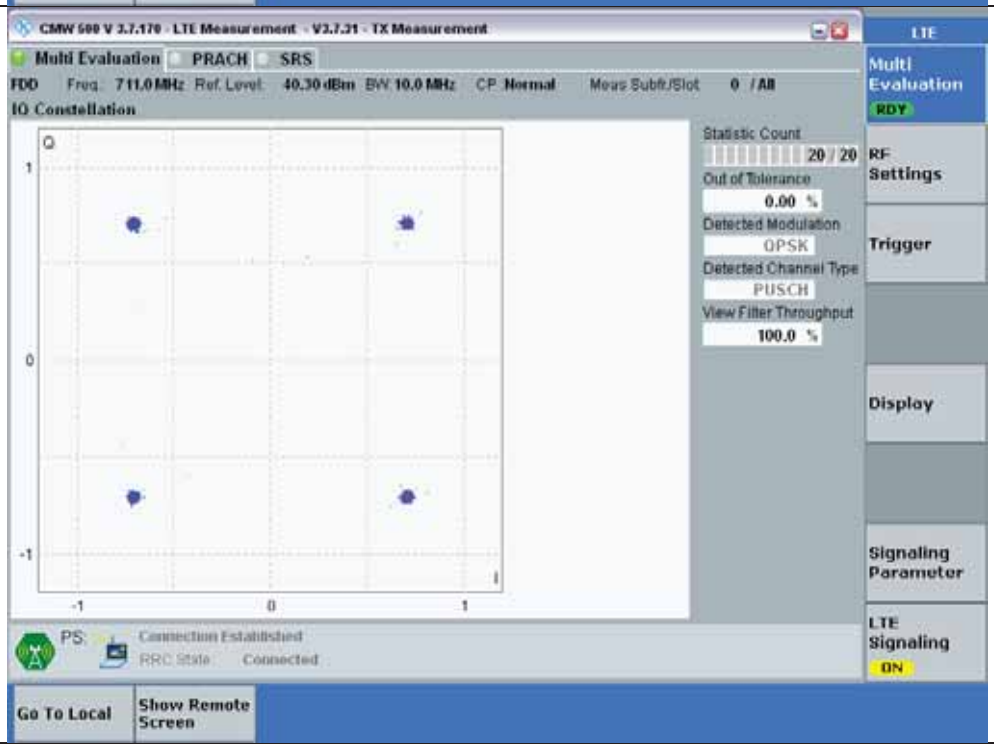

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 704.0 MHz Ref. Level: 40.20 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen


CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 707.5 MHz Ref. Level: 39.50 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen


CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 711.0 MHz Ref. Level: 39.40 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
16-QAM
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen


CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 704.0 MHz Ref. Level: 39.30 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Q
I
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen


CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 707.5 MHz Ref. Level: 40.30 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

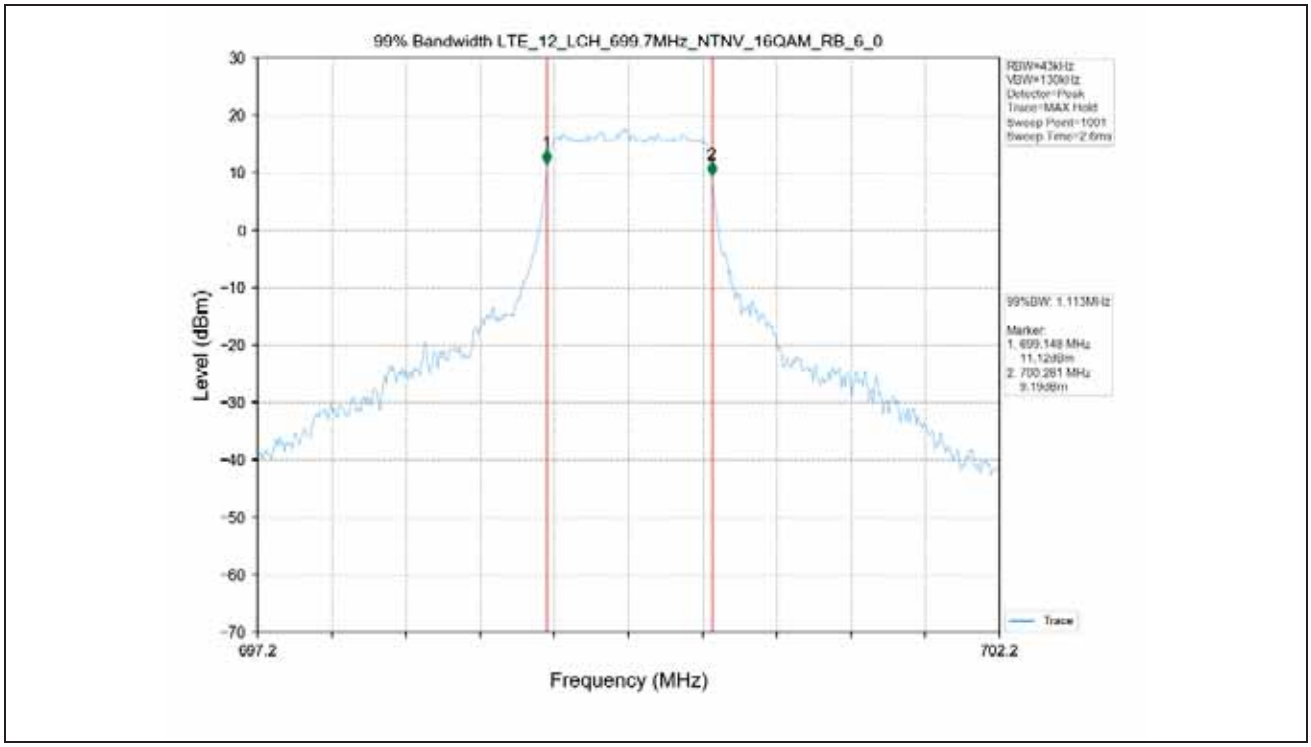

CMW 500 V 3.7.170 - LTE Measurement - V3.7.31 - TX Measurement
Multi Evaluation
PRACH
SRS
FDD Freq: 711.0 MHz Ref. Level: 40.30 dBm BW: 10.0 MHz CP: Normal Meas Subfr./Slot: 0 / All
IQ Constellation
Statistic Count
20 / 20
Out of Tolerance
0.00 %
Detected Modulation
QPSK
Detected Channel Type
PUSCH
View Filter Throughput
100.0 %
PS:
Connection Established
RRC State: Connected
LTE
Multi Evaluation
RDY
RF Settings
Trigger
Display
Signaling Parameter
LTE Signaling
ON
Go To Local
Show Remote Screen

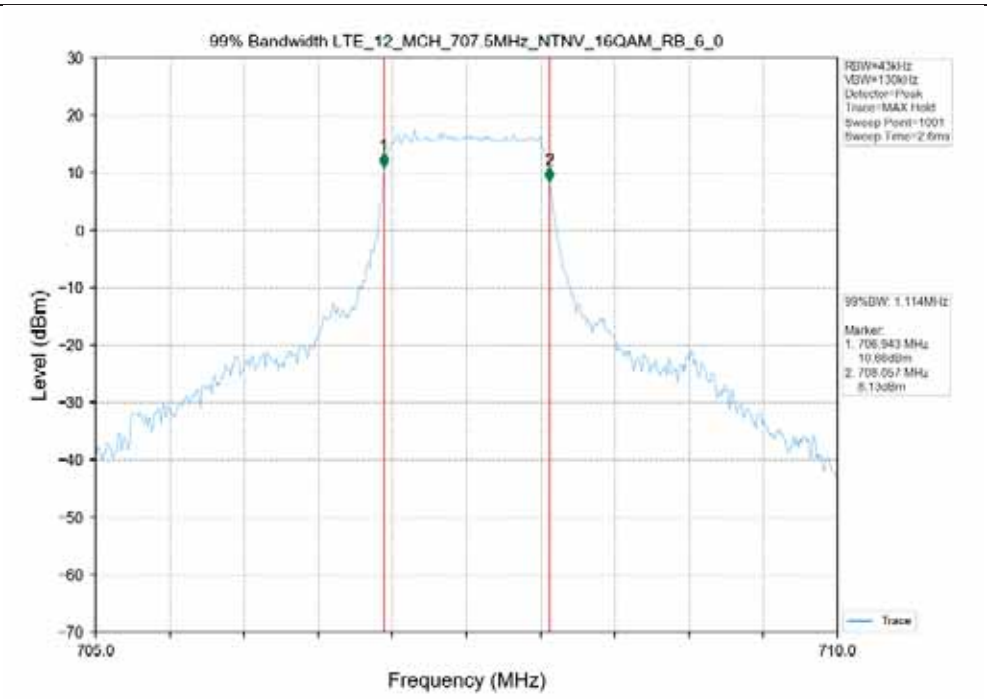
4. 99% & 26dB Bandwidth

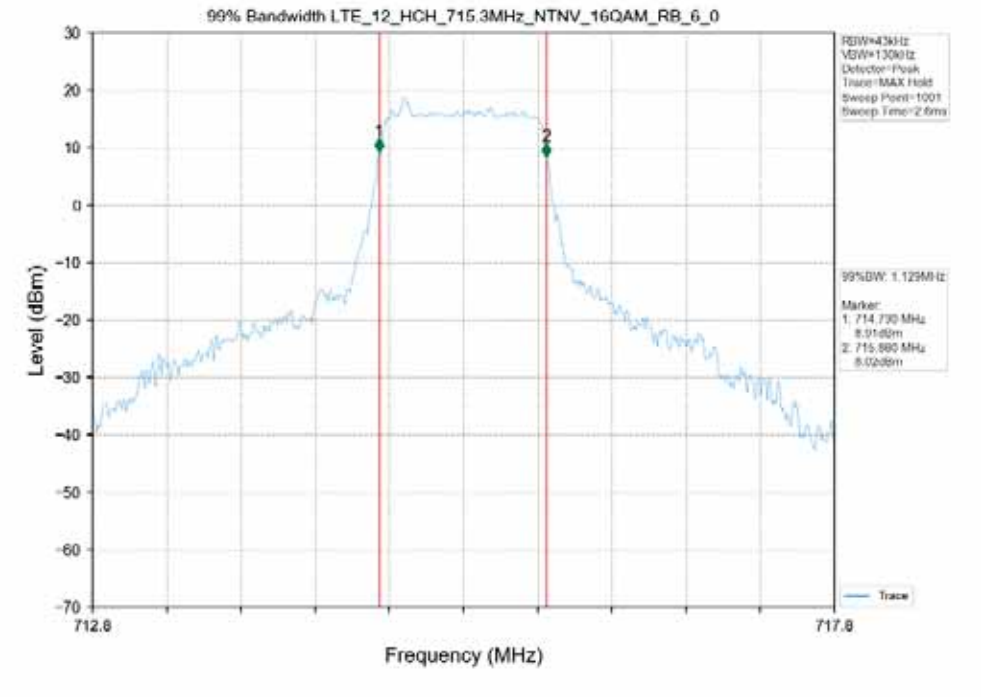
4.1 Test Result

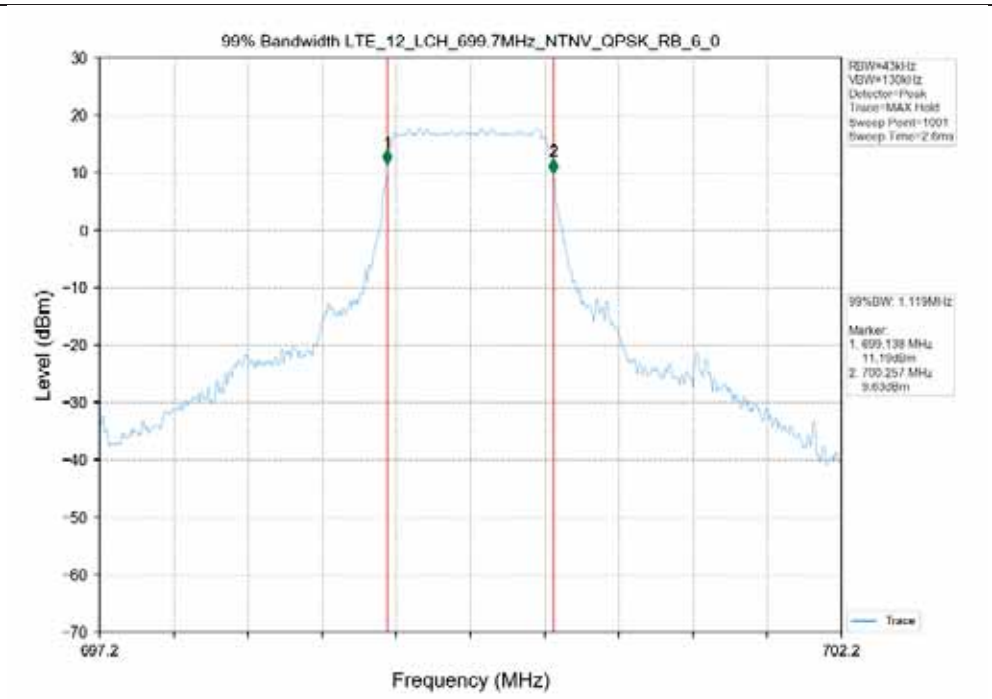
Test Band: 12 _ 1.4MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.120	1.130	1.110	N/A	PASS
16QAM	6	0	1.110	1.110	1.130	N/A	PASS

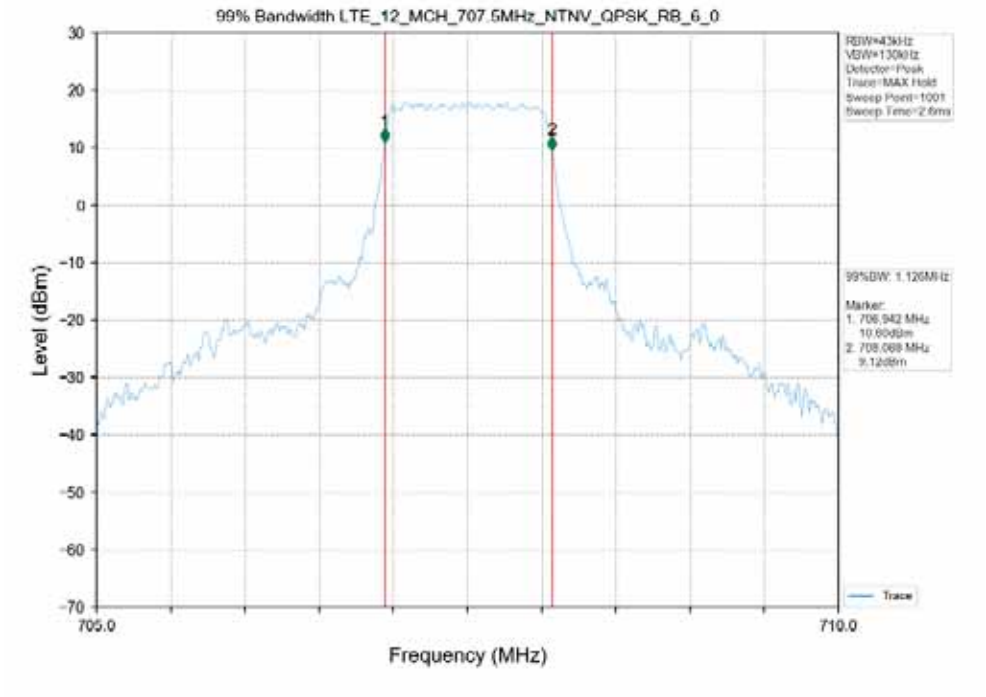
4.2 Test Graph

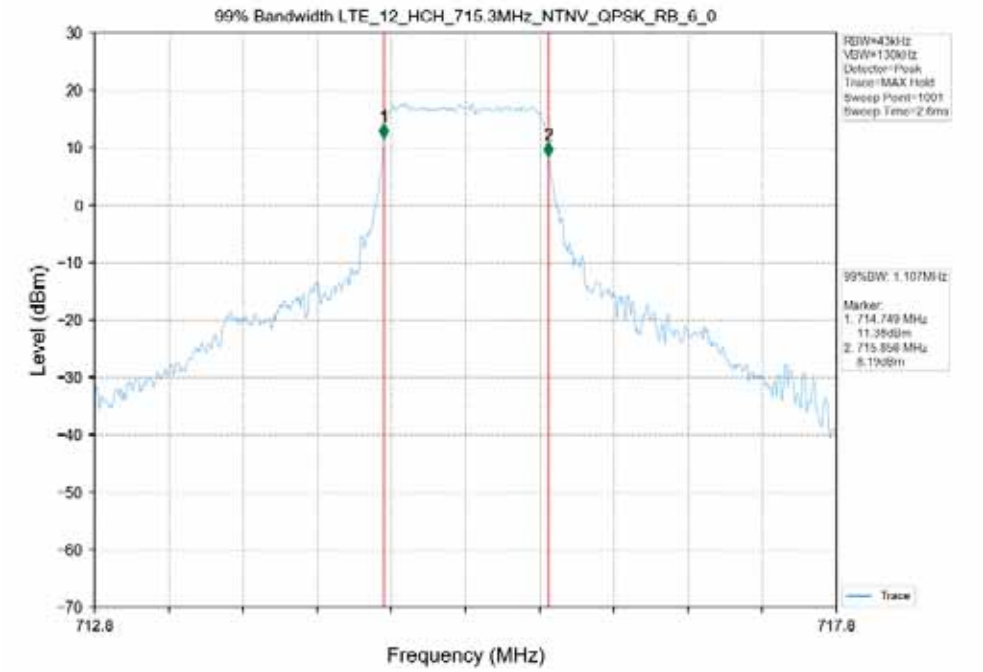



99% Bandwidth LTE_12_MCH_707.5MHz_NTNV_16QAM_RB_6_0
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.114MHz
Marker:
1. 706.943 MHz
10.66dBm
2. 708.057 MHz
8.13dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
705.0
710.0
Frequency (MHz)


99% Bandwidth LTE_12_HCH_715.3MHz_NTNV_16QAM_RB_6_0
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.129MHz
Marker:
1. 714.730 MHz
8.91dBm
2. 715.860 MHz
8.02dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
712.8
717.8
Frequency (MHz)

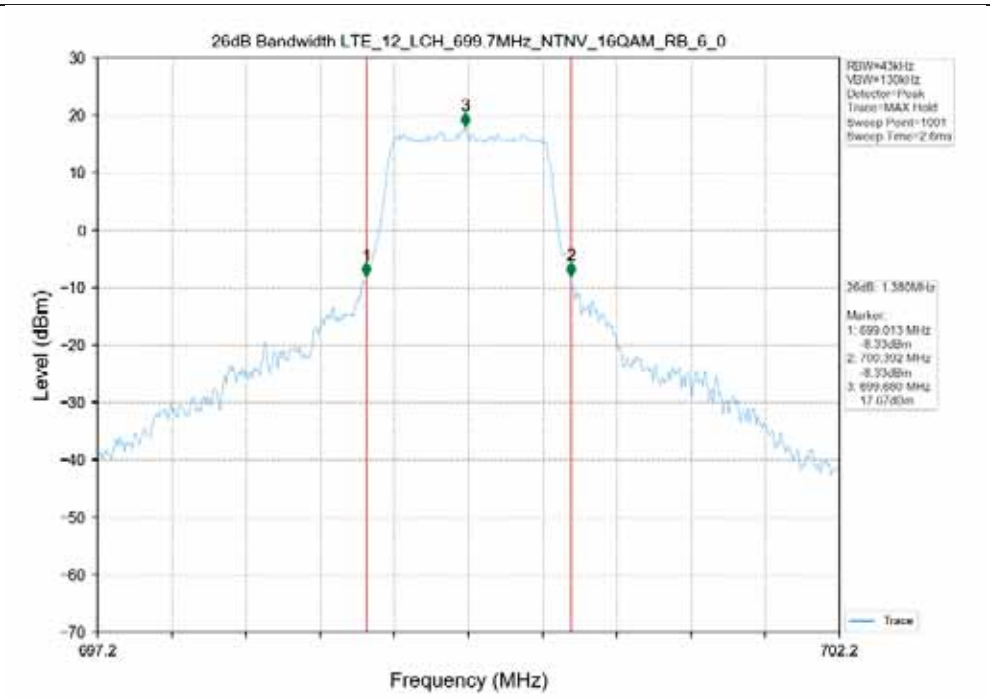

99% Bandwidth LTE_12_LCH_699.7MHz_NTNV_QPSK_RB_6_0
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.119MHz
Marker:
1. 699.138 MHz
11.19dBm
2. 700.257 MHz
9.63dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
697.2
702.2
Frequency (MHz)

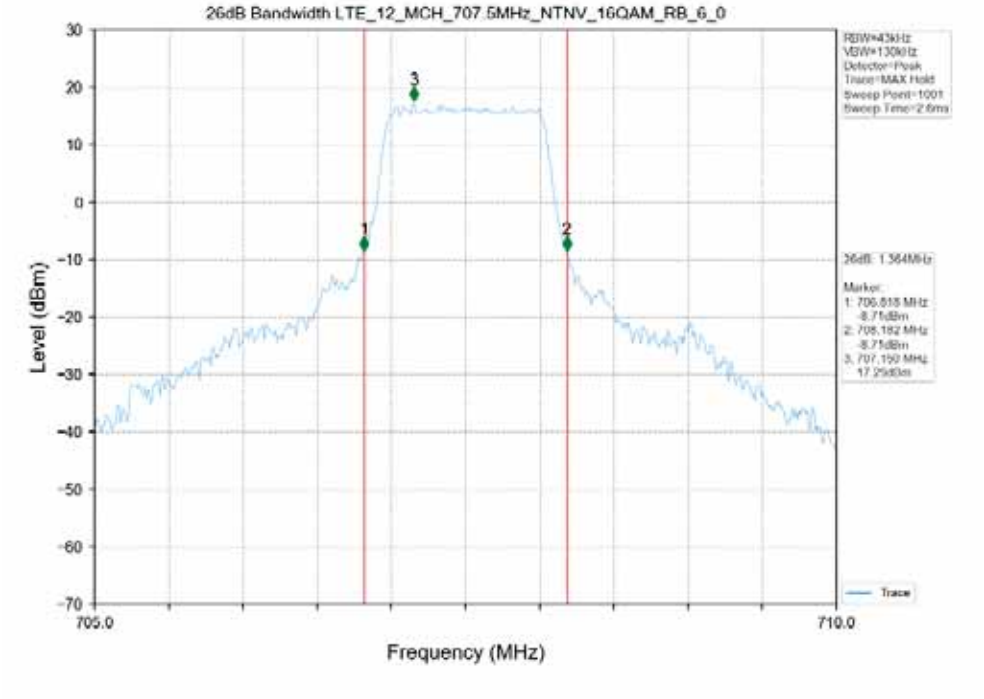

99% Bandwidth LTE_12_MCH_707.5MHz_NTNV_QPSK_RB_6_0
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.126MHz
Marker:
1. 706.942 MHz
10.80dBm
2. 708.068 MHz
9.12dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
705.0
710.0
Frequency (MHz)

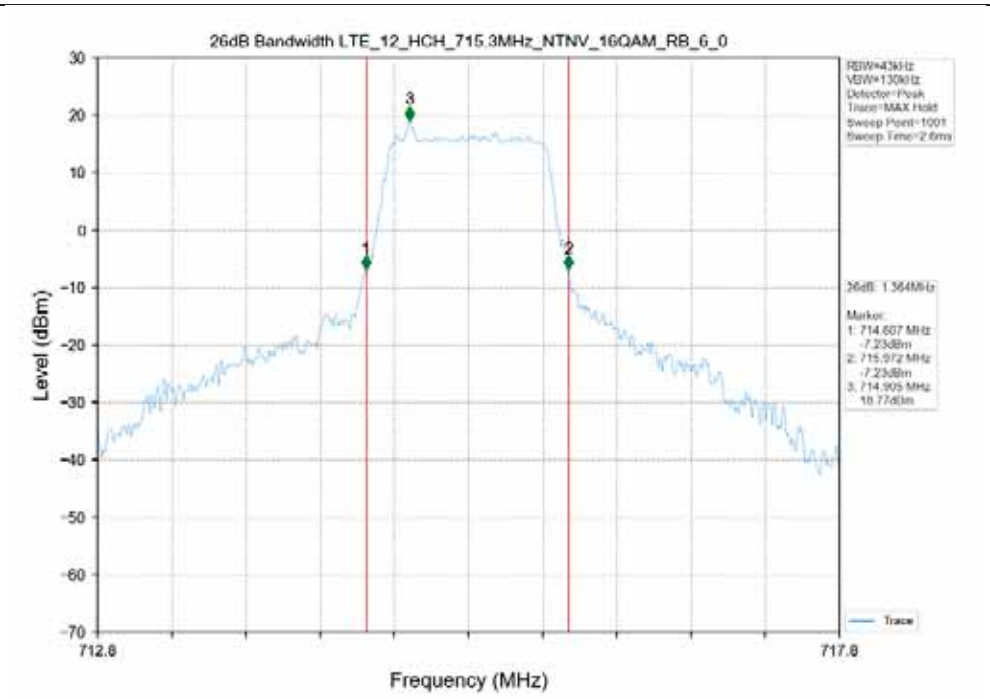


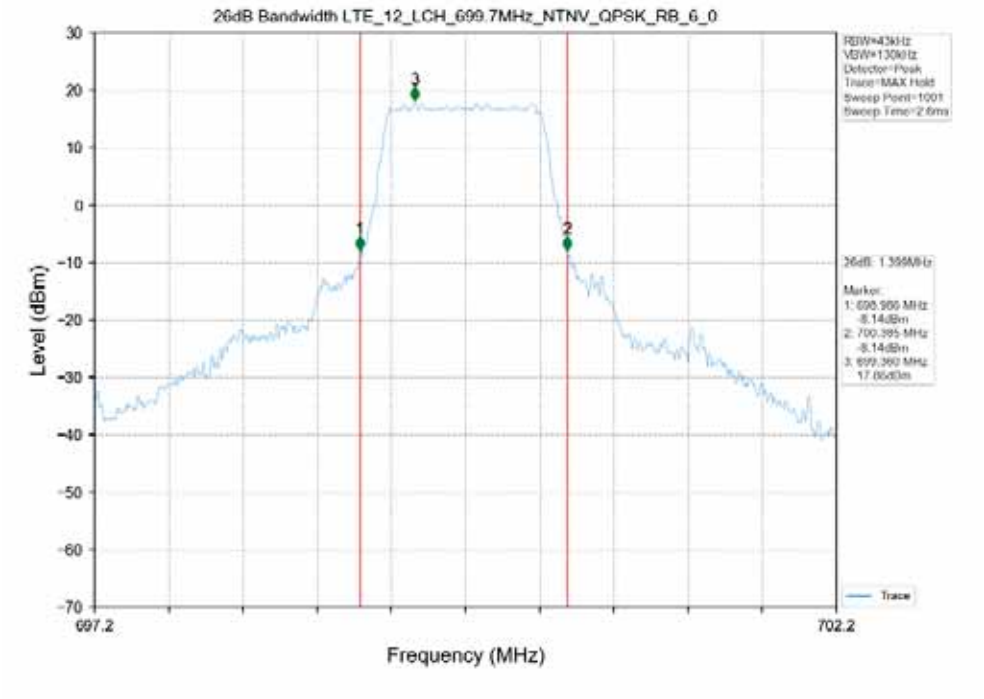
Test Band: 12 _ 1.4MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.400	1.410	1.430	N/A	PASS
16QAM	6	0	1.380	1.360	1.360	N/A	PASS

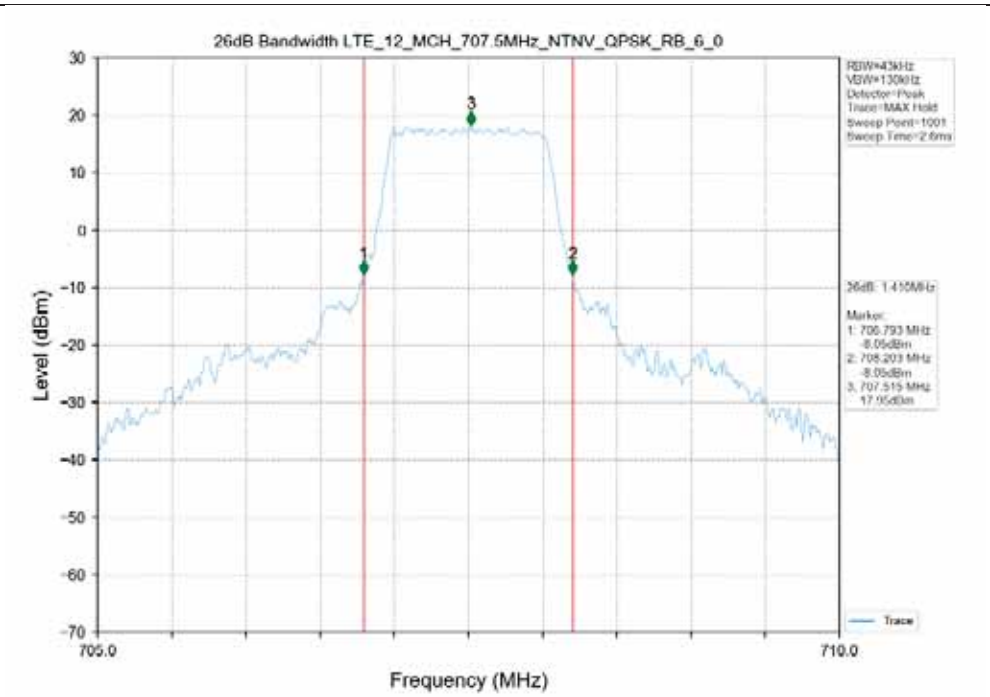
4.2 Test Graph

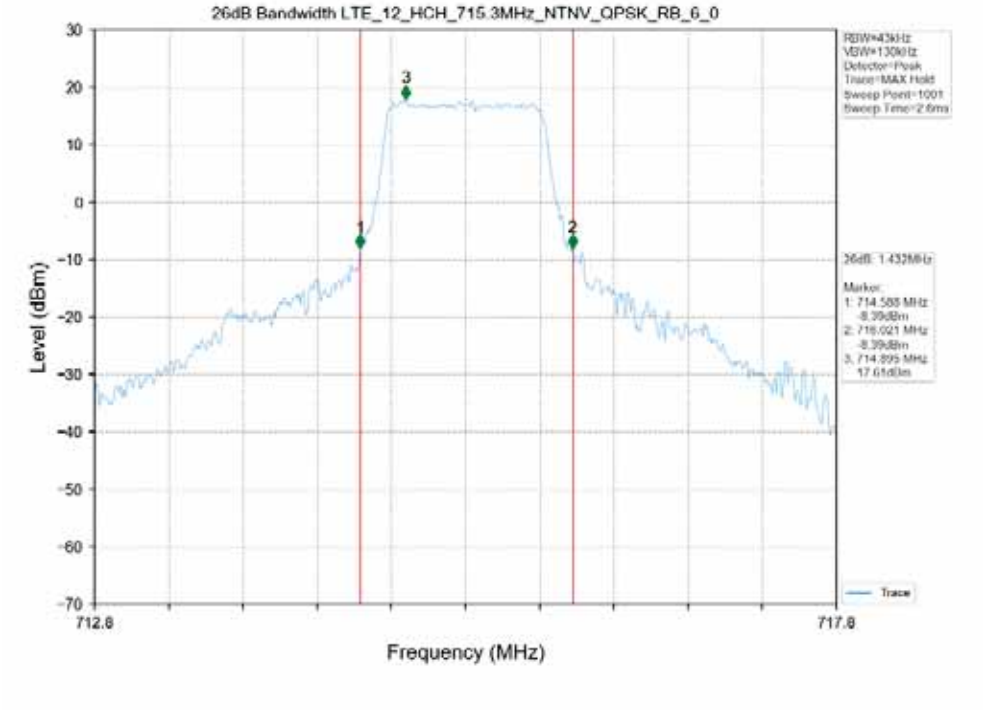

26dB Bandwidth LTE_12_LCH_699.7MHz_NTNV_16QAM_RB_6_0
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.386MHz
Marker:
1: 699.013 MHz
-8.33dBm
2: 700.392 MHz
-8.33dBm
3: 699.680 MHz
17.07dBm
Trace
Level (dBm)
Frequency (MHz)
697.2
702.2


26dB Bandwidth LTE_12_MCH_707.5MHz_NTNV_16QAM_RB_6_0
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.364MHz
Marker:
1: 706.815 MHz
-8.71dBm
2: 708.192 MHz
-8.71dBm
3: 707.150 MHz
17.29dBm
Trace
Level (dBm)
Frequency (MHz)
705.0
710.0


26dB Bandwidth LTE_12_HCH_715.3MHz_NTNV_16QAM_RB_6_0
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.364MHz
Marker:
1: 714.607 MHz
-7.23dBm
2: 715.972 MHz
-7.23dBm
3: 714.905 MHz
18.77dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
712.8
717.8
Frequency (MHz)

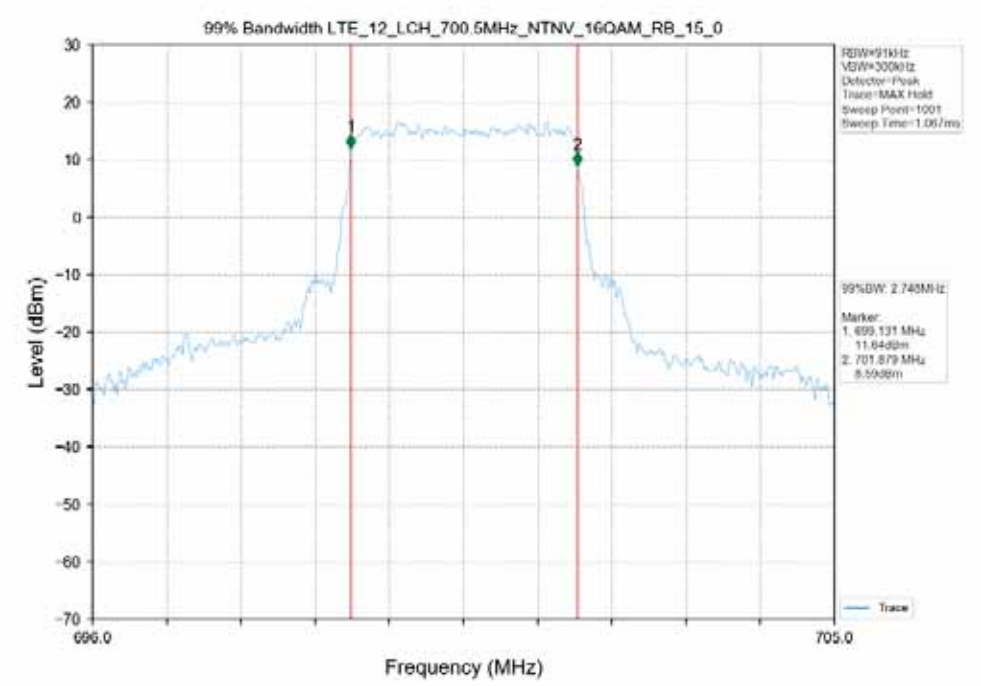

26dB Bandwidth LTE_12_LCH_699.7MHz_NTNV_QPSK_RB_6_0
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.355MHz
Marker:
1: 698.986 MHz
-8.14dBm
2: 700.395 MHz
-8.14dBm
3: 699.390 MHz
17.86dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
697.2
702.2
Frequency (MHz)

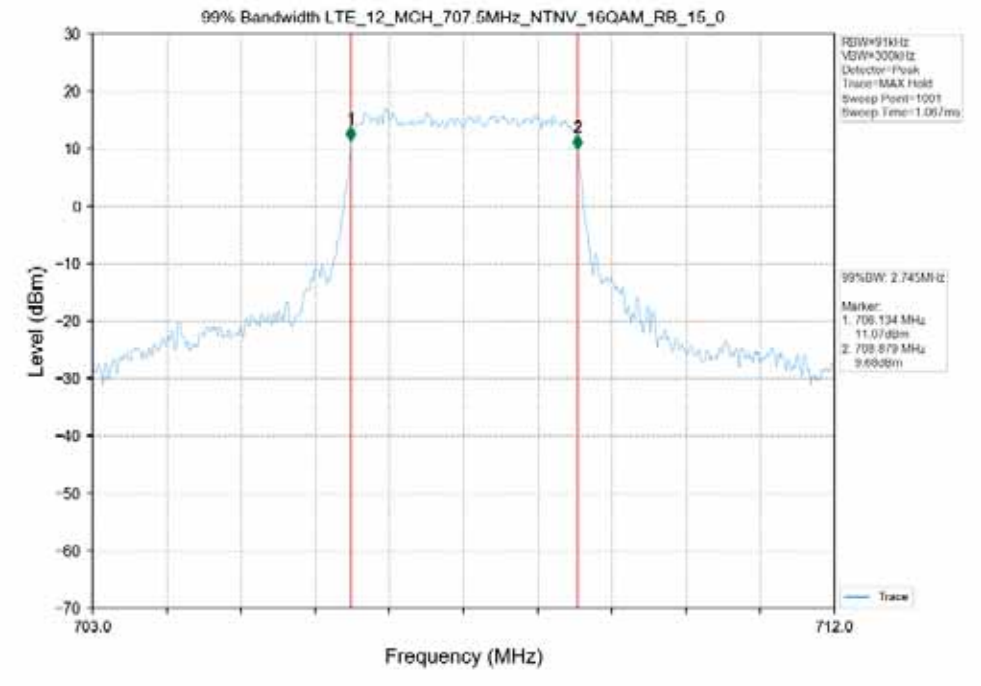


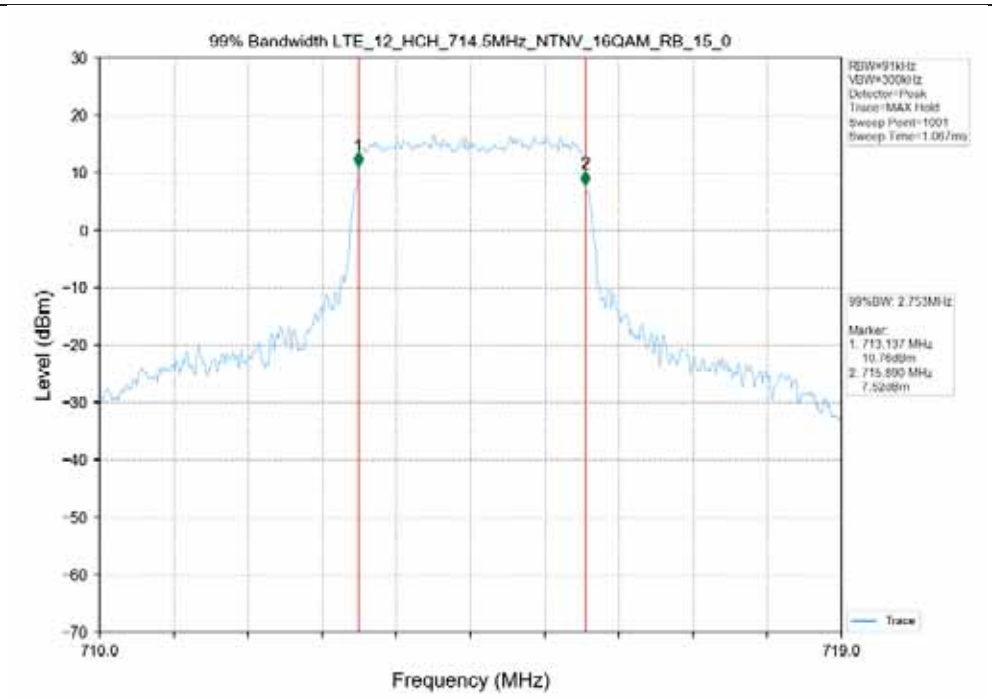


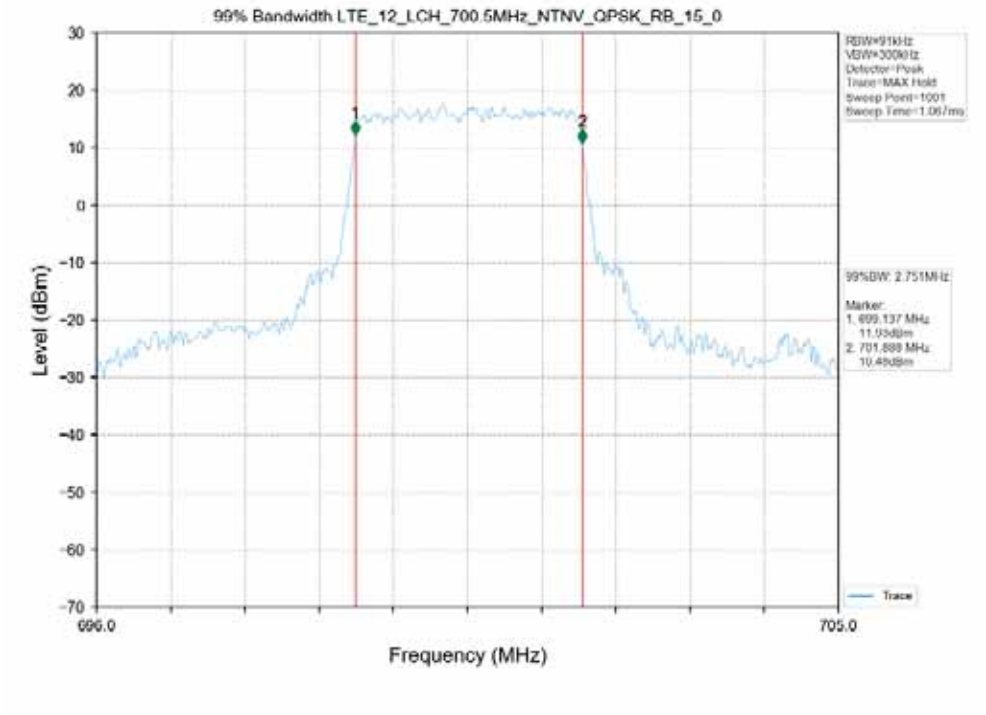
Test Band: 12 _ 3MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.750	2.740	2.740	N/A	PASS
16QAM	15	0	2.750	2.750	2.750	N/A	PASS

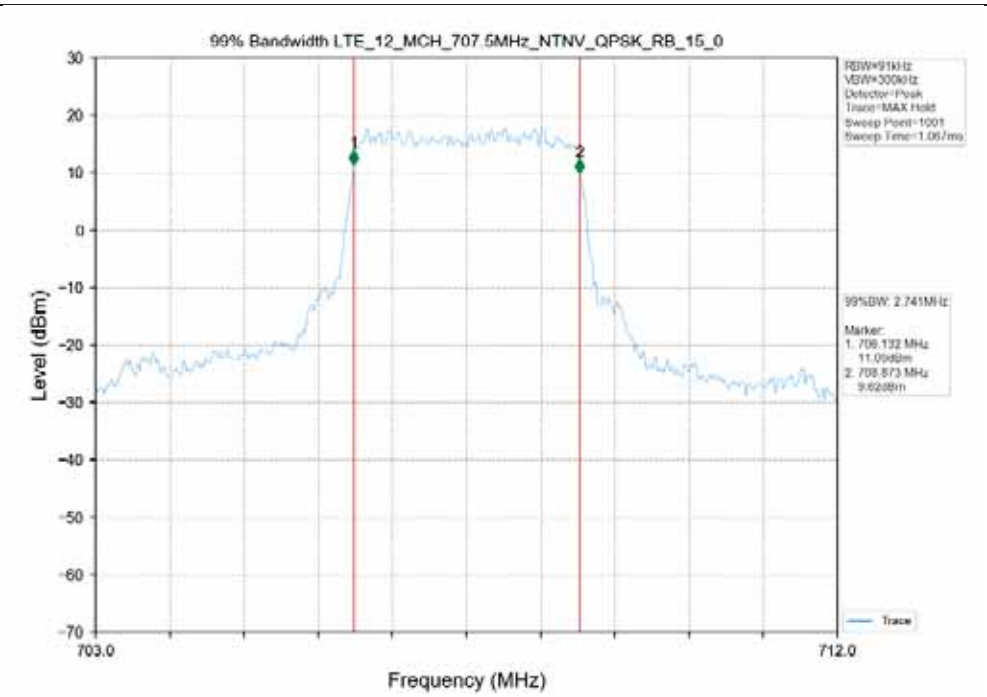
4.2 Test Graph

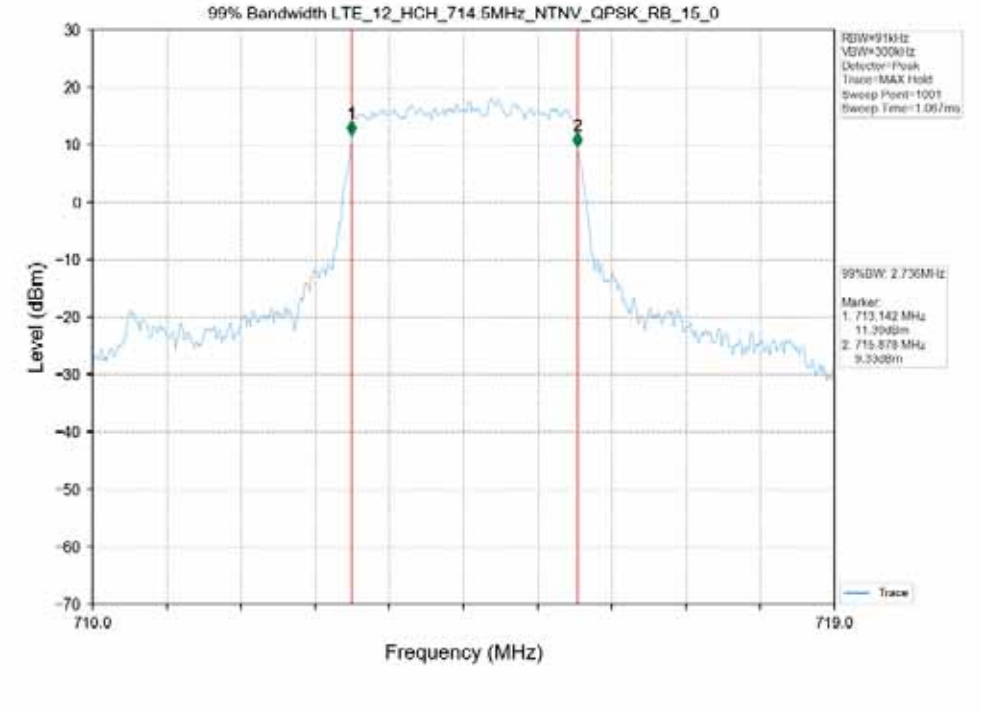





99% Bandwidth LTE_12_HCH_714.5MHz_NTNV_16QAM_RB_15_0
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.06ms
99%BW: 2.753MHz
Marker:
1. 713.137 MHz
10.76dBm
2. 715.890 MHz
7.52dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
710.0
719.0
Frequency (MHz)

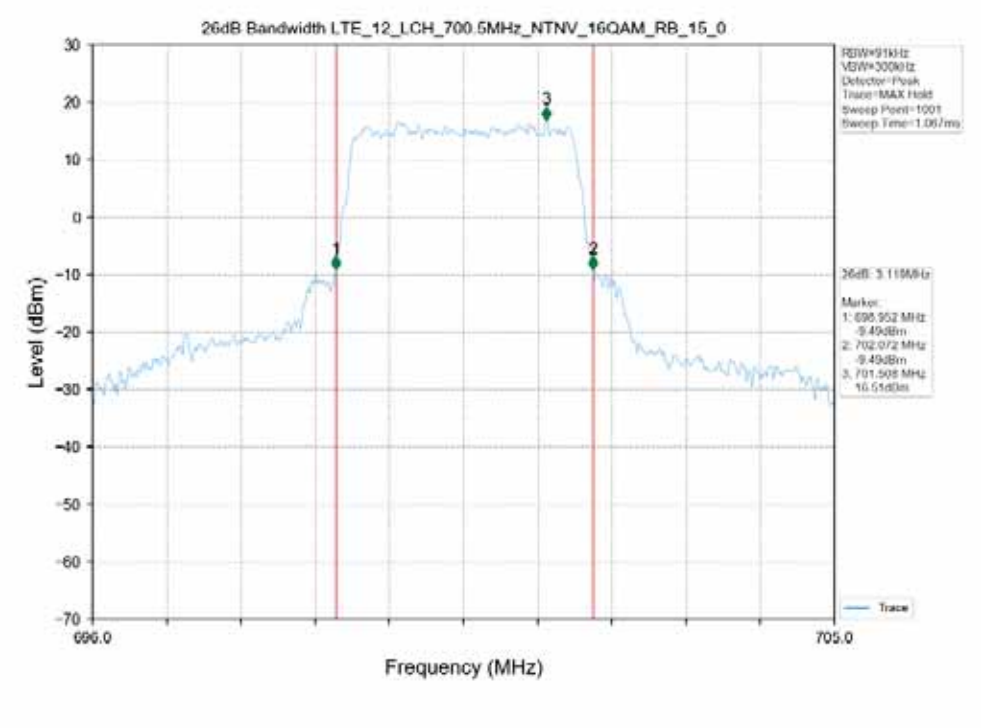

99% Bandwidth LTE_12_LCH_700.5MHz_NTNV_QPSK_RB_15_0
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.06ms
99%BW: 2.751MHz
Marker:
1. 699.137 MHz
11.03dBm
2. 701.888 MHz
10.48dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
696.0
705.0
Frequency (MHz)

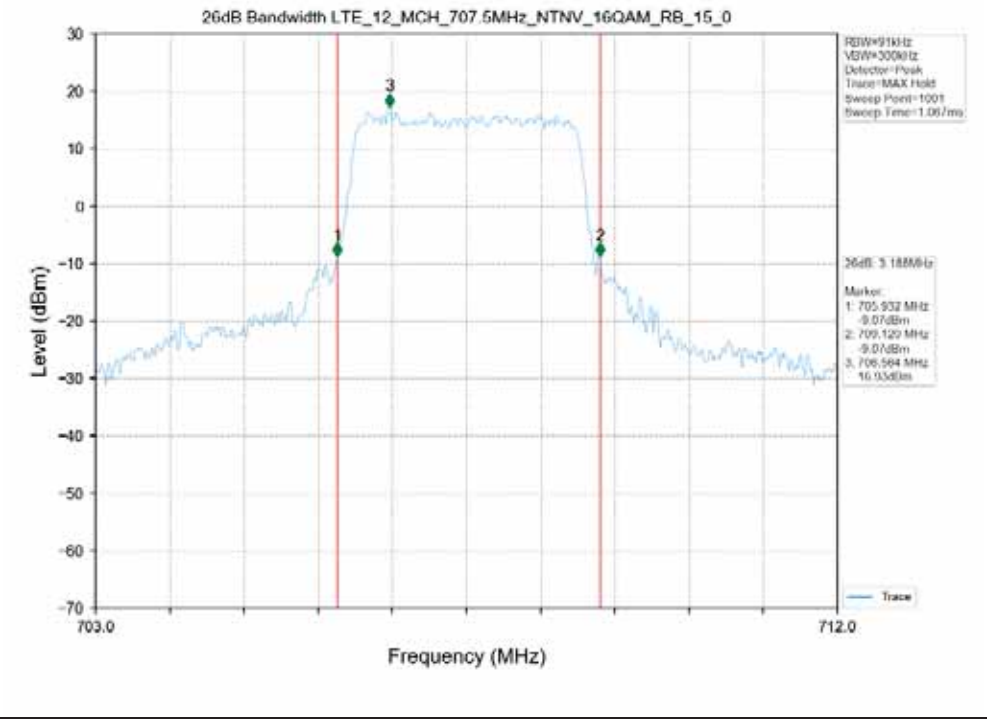


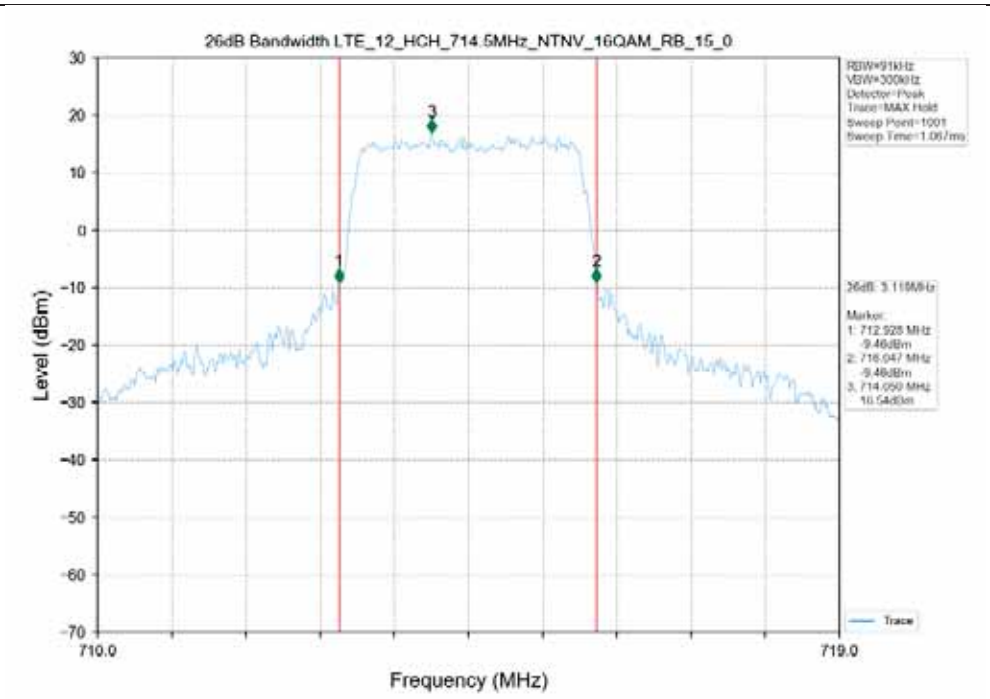


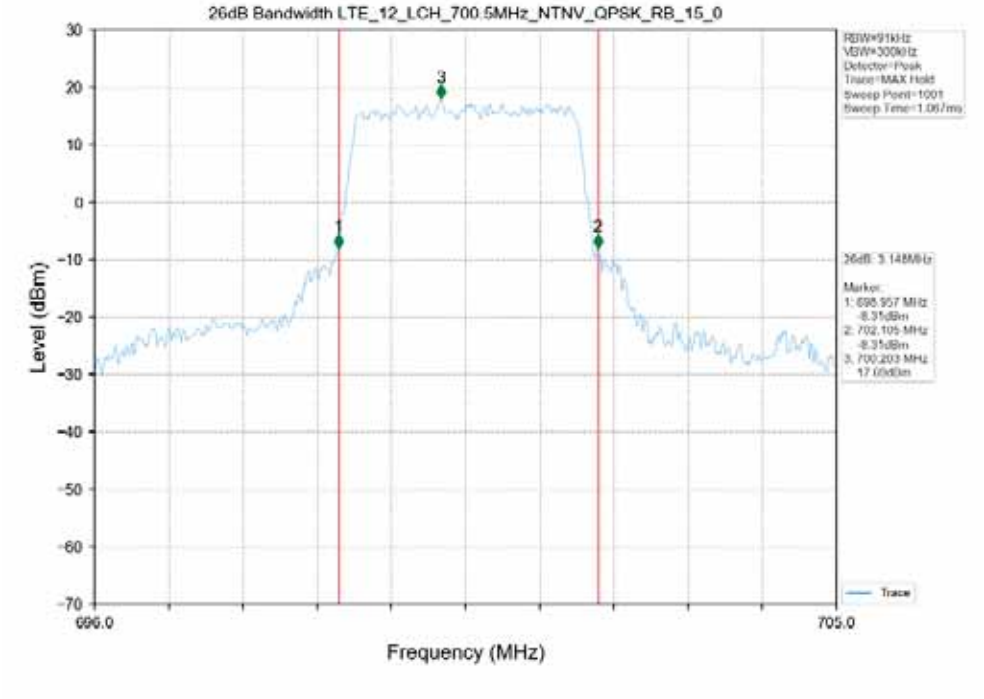
Test Band: 12 _ 3MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	3.150	3.110	3.090	N/A	PASS
16QAM	15	0	3.120	3.190	3.120	N/A	PASS

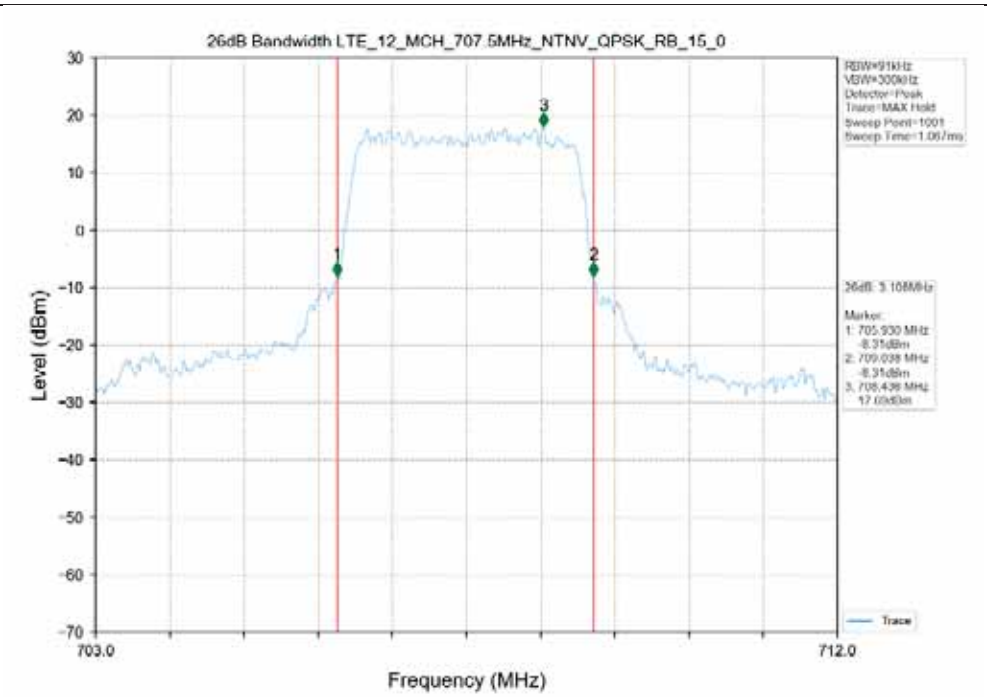
4.2 Test Graph

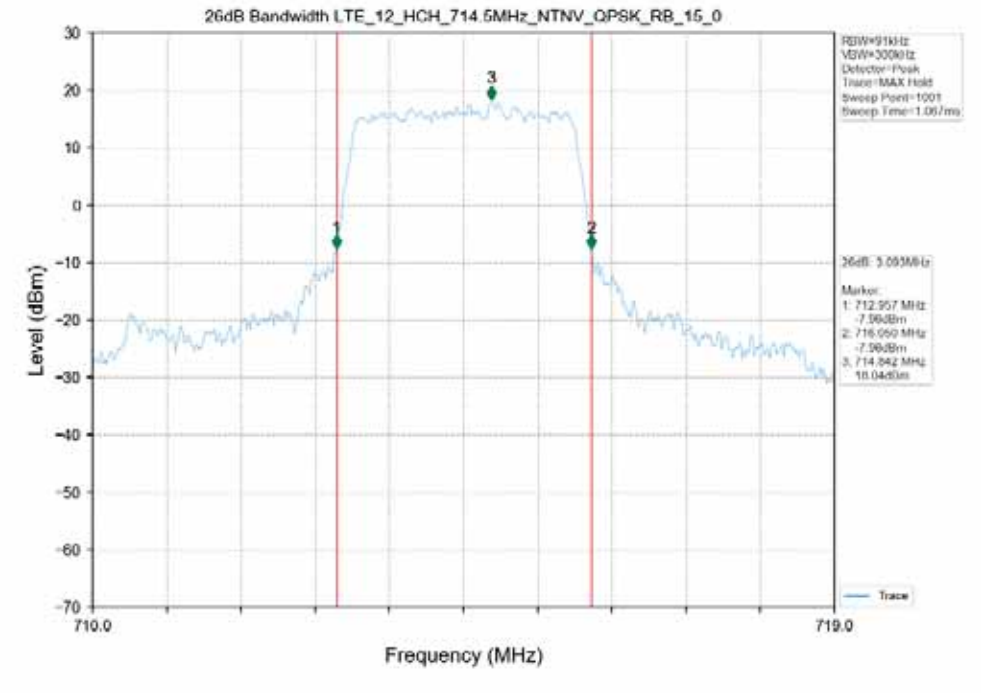





26dB Bandwidth LTE_12_HCH_714.5MHz_NTNV_16QAM_RB_15_0
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.06ms
26dB: 3.118MHz
Marker
1: 712.928 MHz
-9.46dBm
2: 716.047 MHz
-9.46dBm
3: 714.050 MHz
16.54dBm
Trace
Level (dBm)
Frequency (MHz)
710.0
719.0

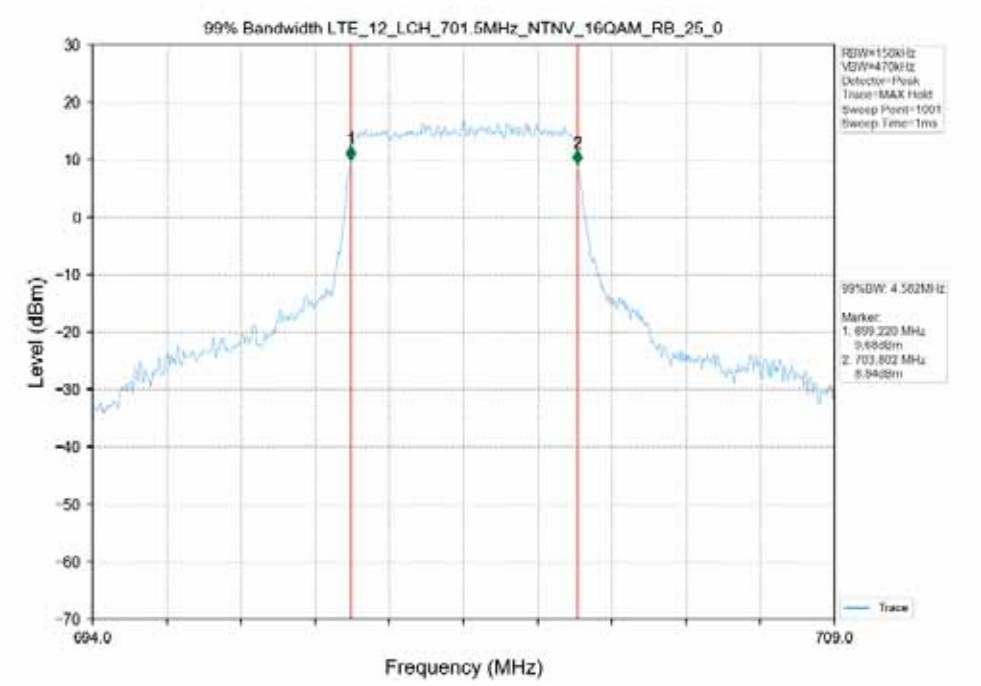

26dB Bandwidth LTE_12_LCH_700.5MHz_NTNV_QPSK_RB_15_0
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.06ms
26dB: 3.148MHz
Marker
1: 698.957 MHz
-8.31dBm
2: 702.105 MHz
-8.31dBm
3: 700.203 MHz
17.69dBm
Trace
Level (dBm)
Frequency (MHz)
696.0
705.0

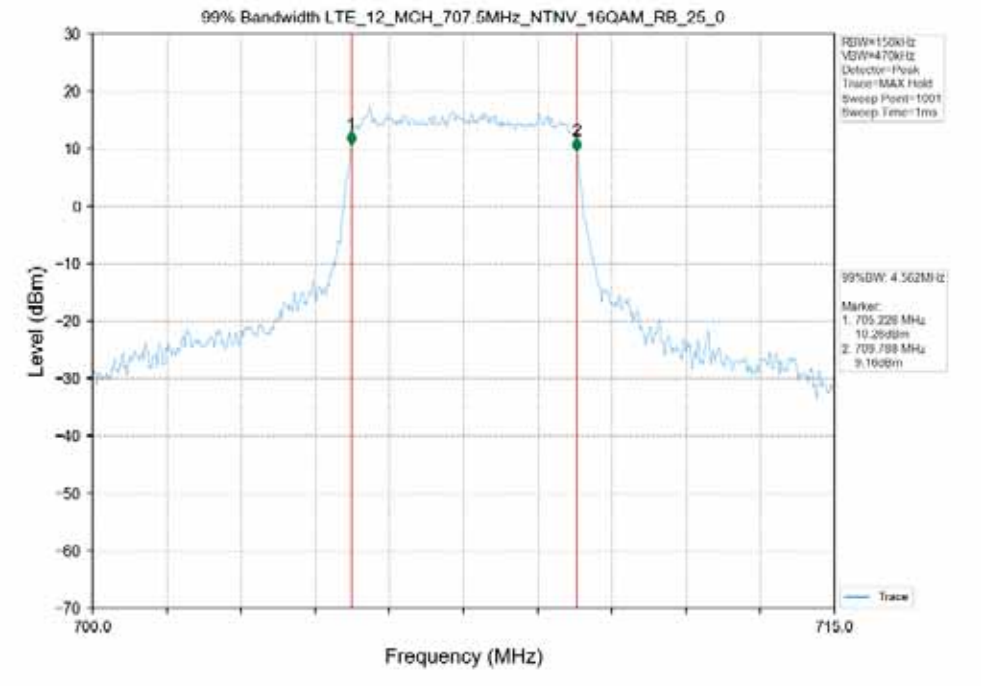


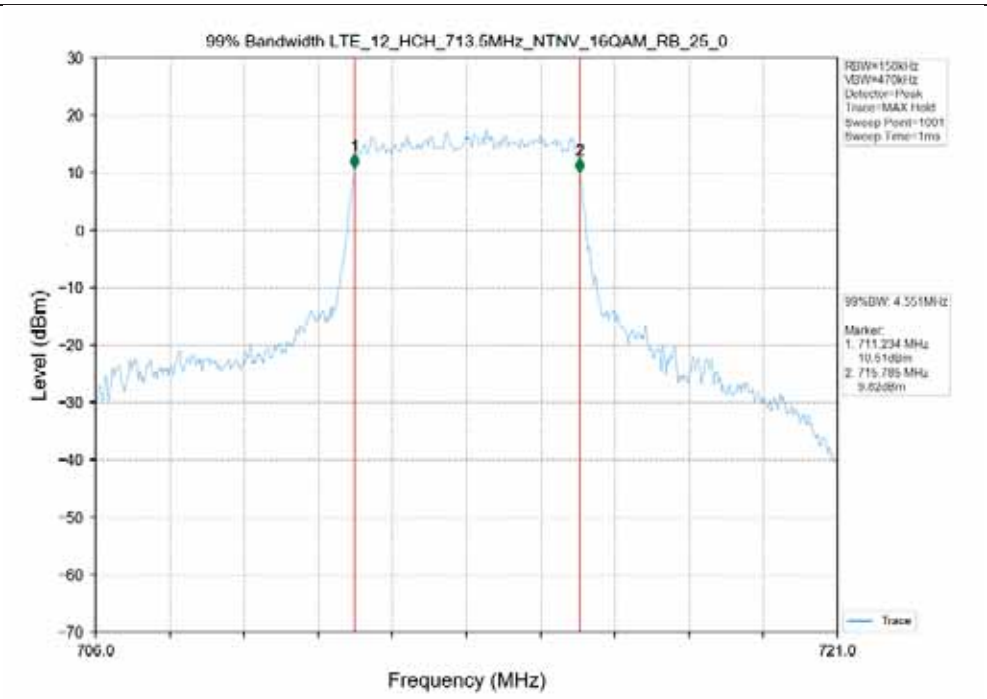


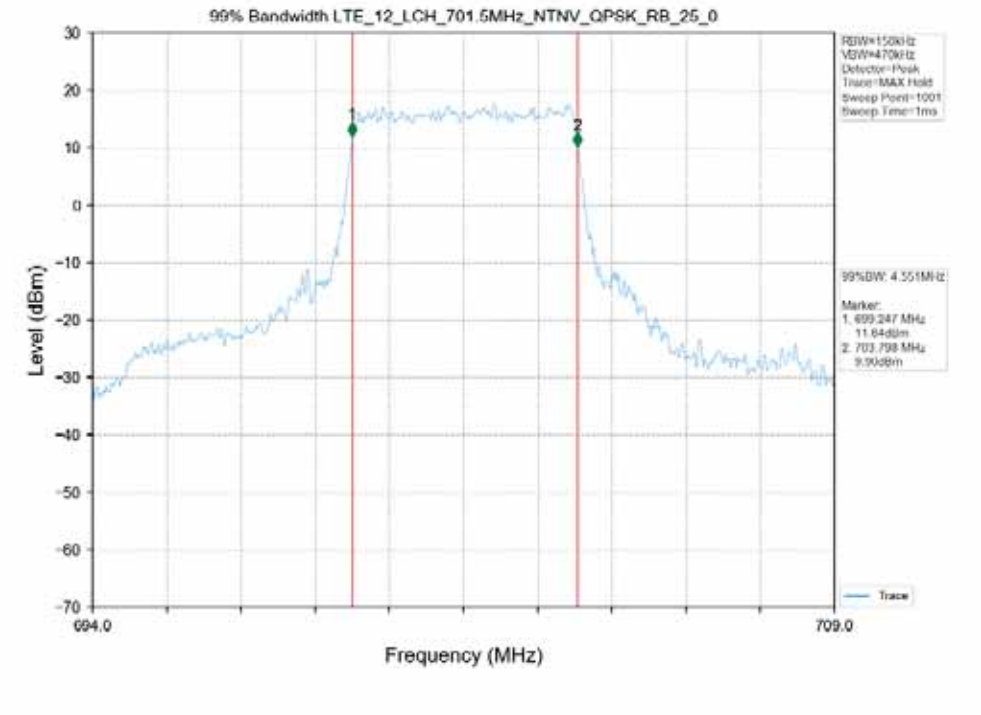
Test Band: 12 _ 5MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	4.550	4.550	4.560	N/A	PASS
16QAM	25	0	4.580	4.560	4.550	N/A	PASS

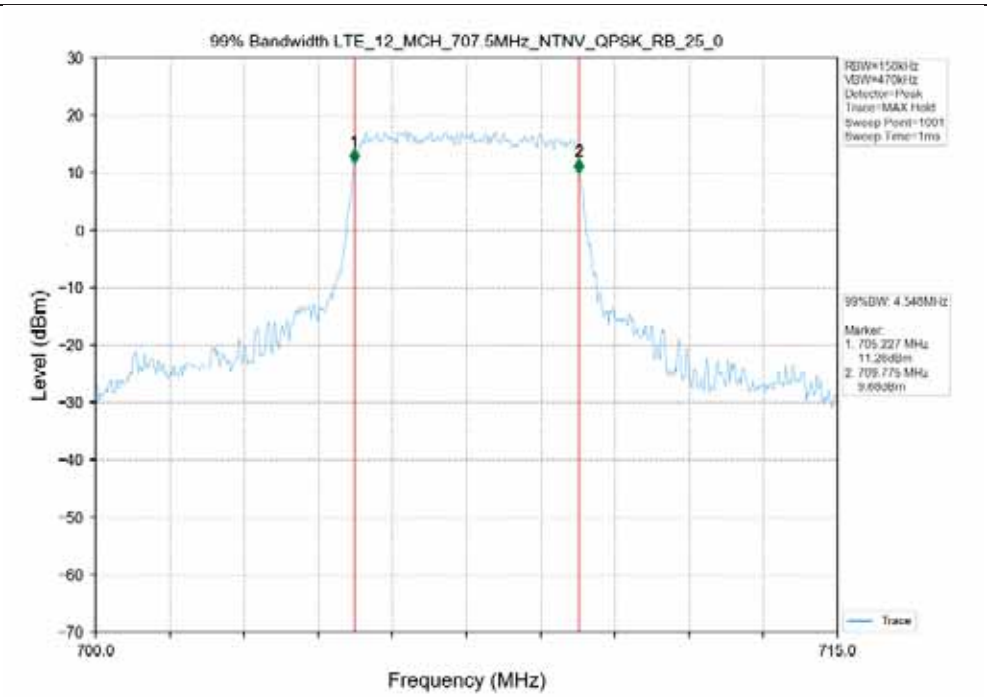
4.2 Test Graph

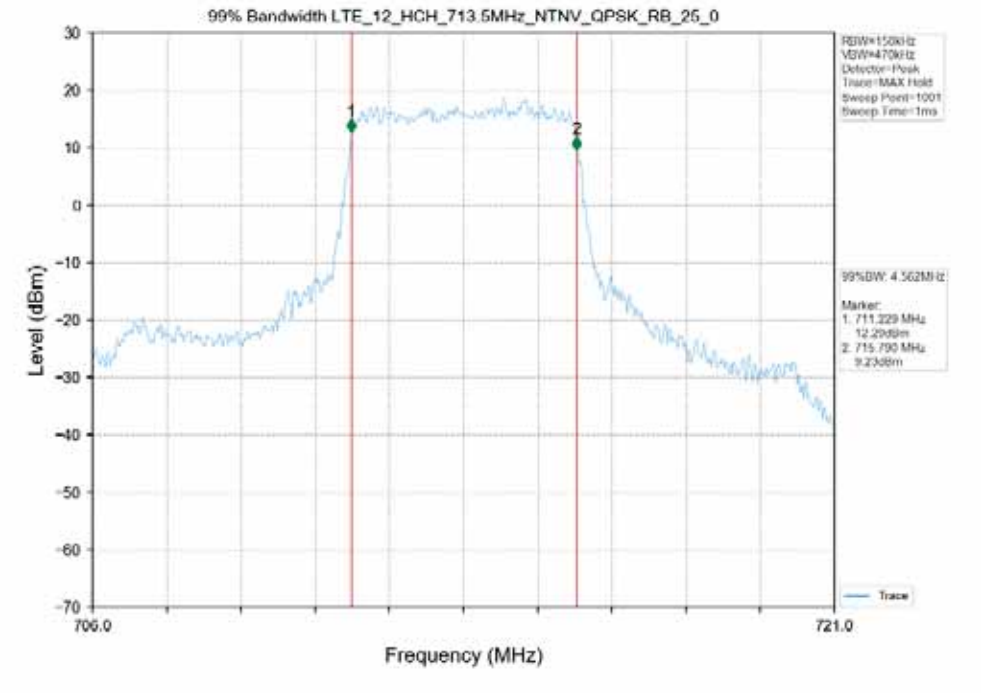





99% Bandwidth LTE_12_HCH_713.5MHz_NTNV_16QAM_RB_25_0
RBW=150kHz
VBW=470kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 4.551MHz
Marker:
1. 711.234 MHz
10.51dBm
2. 715.785 MHz
9.62dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
706.0
721.0
Frequency (MHz)

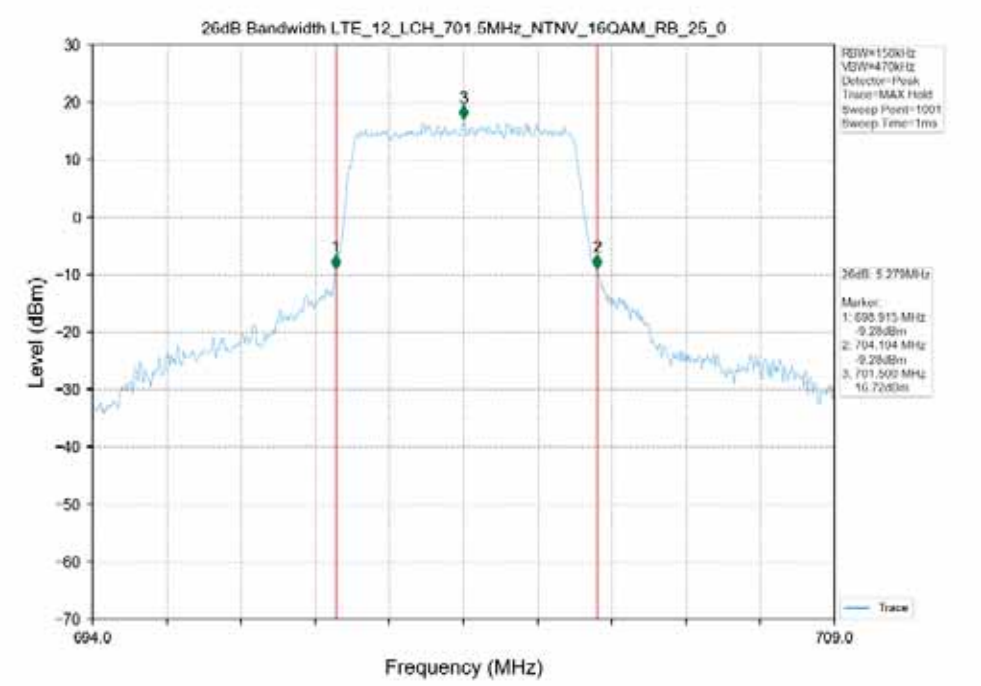

99% Bandwidth LTE_12_LCH_701.5MHz_NTNV_QPSK_RB_25_0
RBW=150kHz
VBW=470kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 4.551MHz
Marker:
1. 699.247 MHz
11.64dBm
2. 703.798 MHz
9.90dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
694.0
709.0
Frequency (MHz)

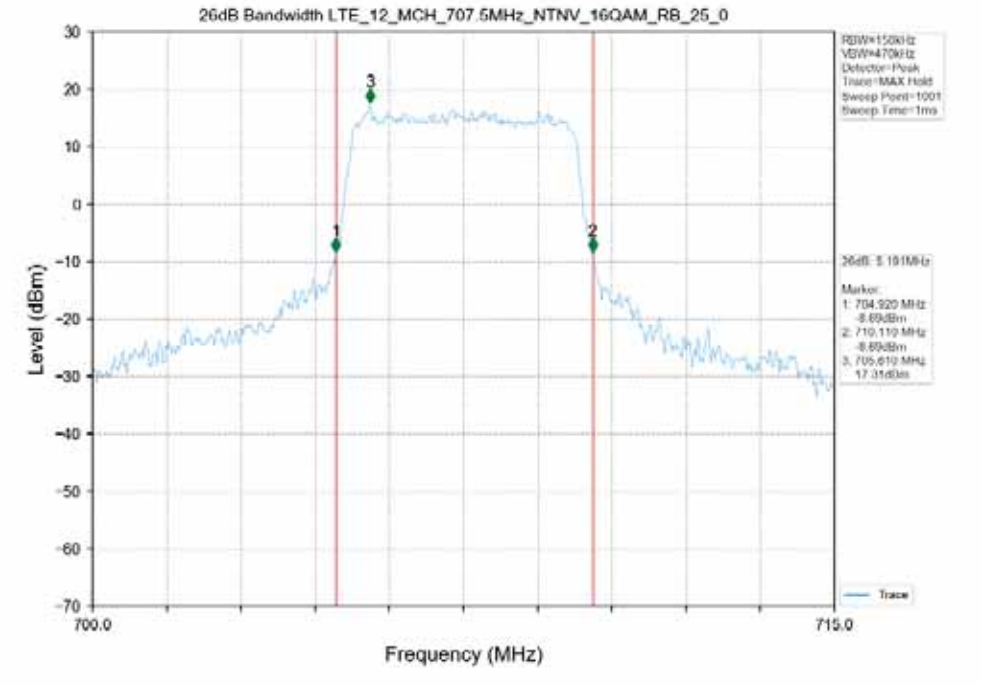


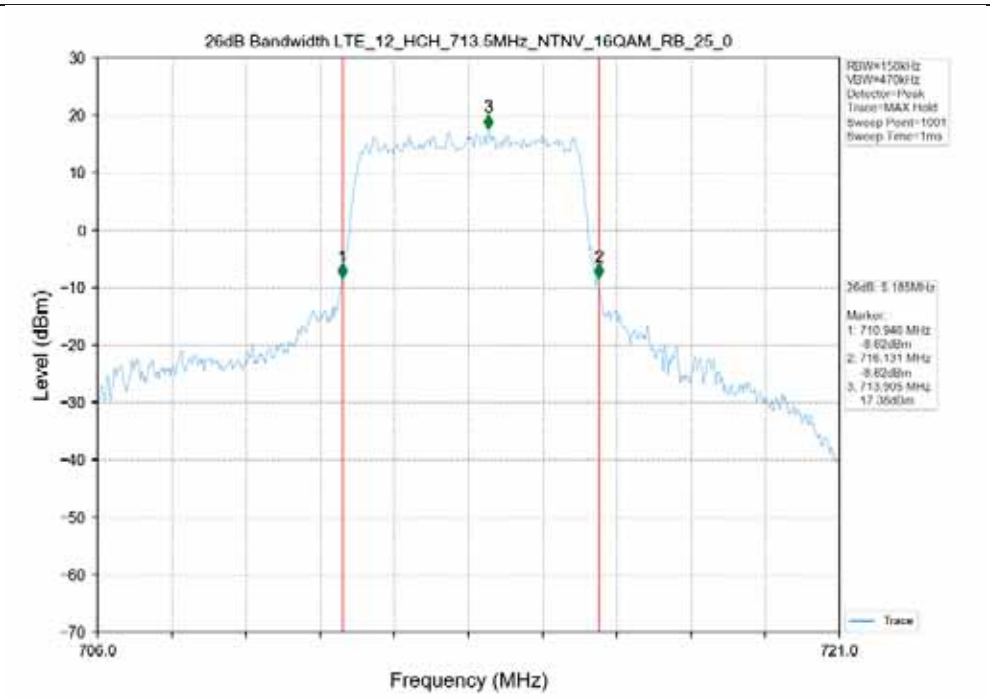


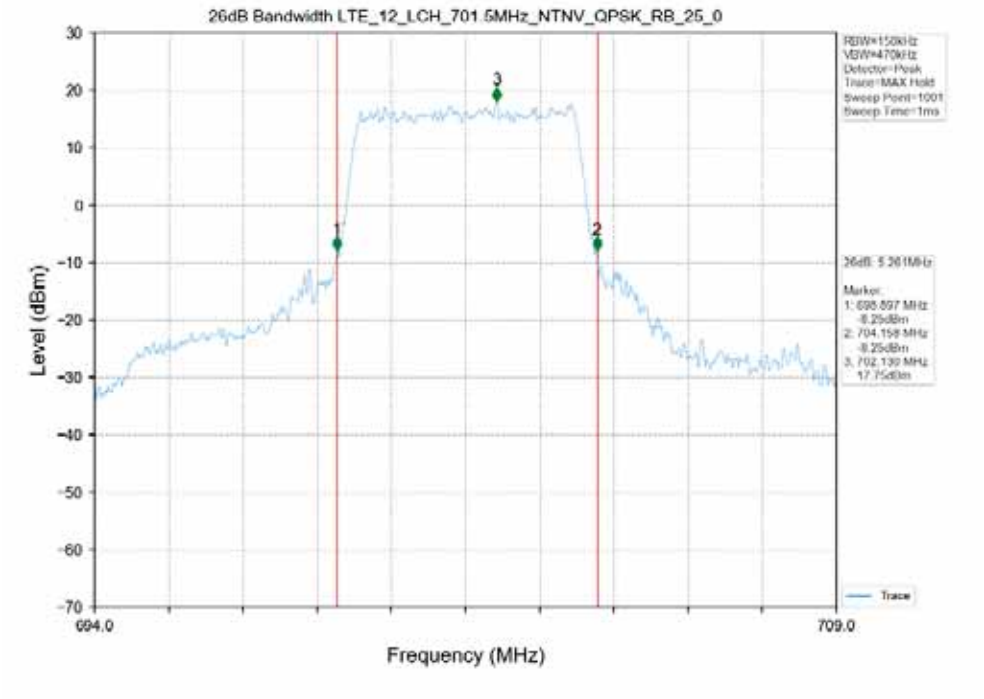
Test Band: 12 _ 5MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	5.260	5.250	5.160	N/A	PASS
16QAM	25	0	5.280	5.190	5.180	N/A	PASS

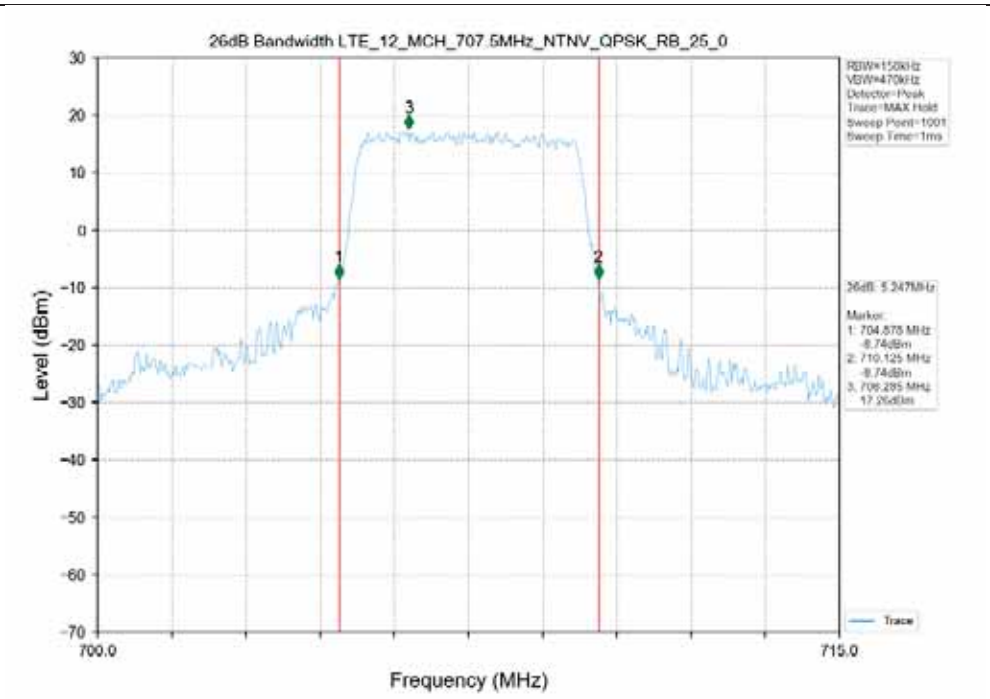
4.2 Test Graph

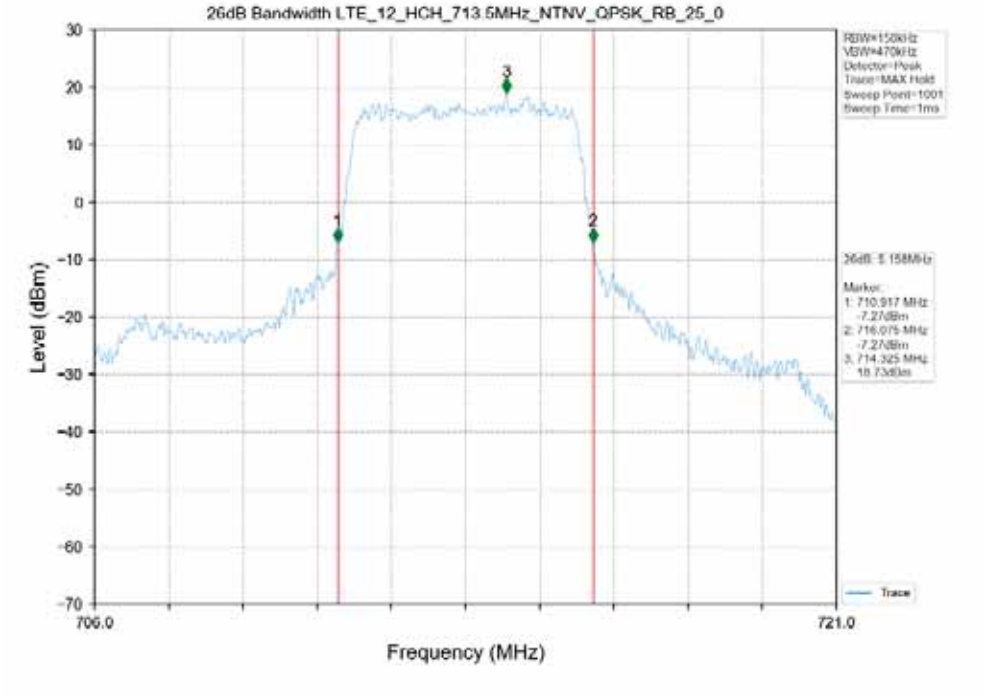





26dB Bandwidth LTE_12_HCH_713.5MHz_NTNV_16QAM_RB_25_0
RBW=150kHz
VBW=470kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 5.185MHz
Marker
1: 710.946 MHz
-8.62dBm
2: 716.131 MHz
-8.62dBm
3: 713.905 MHz
17.35dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
706.0
721.0
Frequency (MHz)

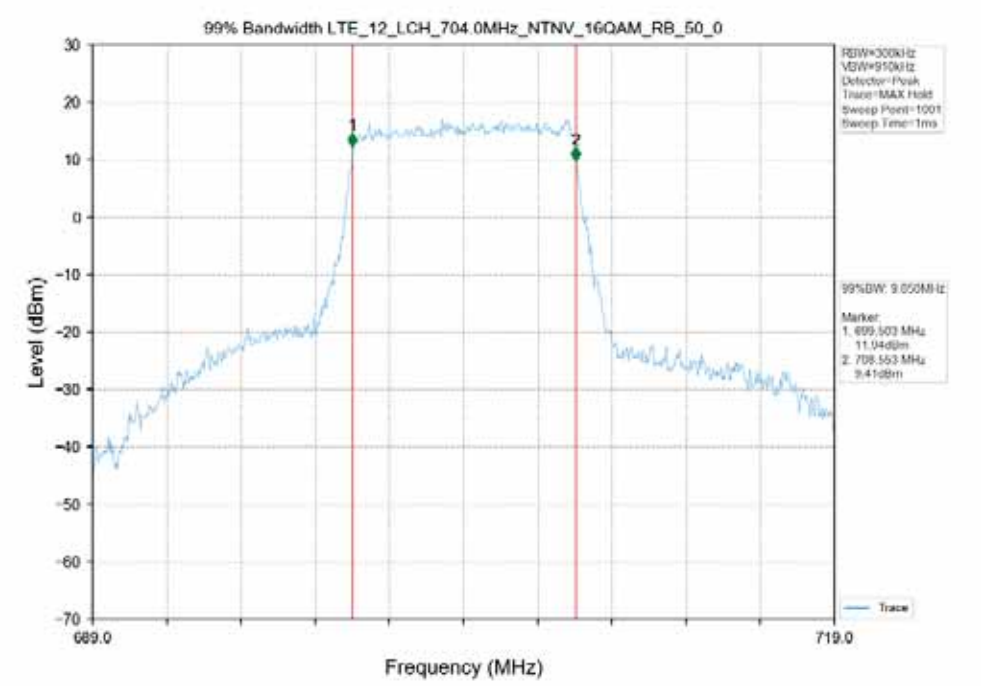

26dB Bandwidth LTE_12_LCH_701.5MHz_NTNV_QPSK_RB_25_0
RBW=150kHz
VBW=470kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 5.261MHz
Marker
1: 698.897 MHz
-8.25dBm
2: 704.158 MHz
-8.25dBm
3: 702.130 MHz
17.75dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
694.0
709.0
Frequency (MHz)

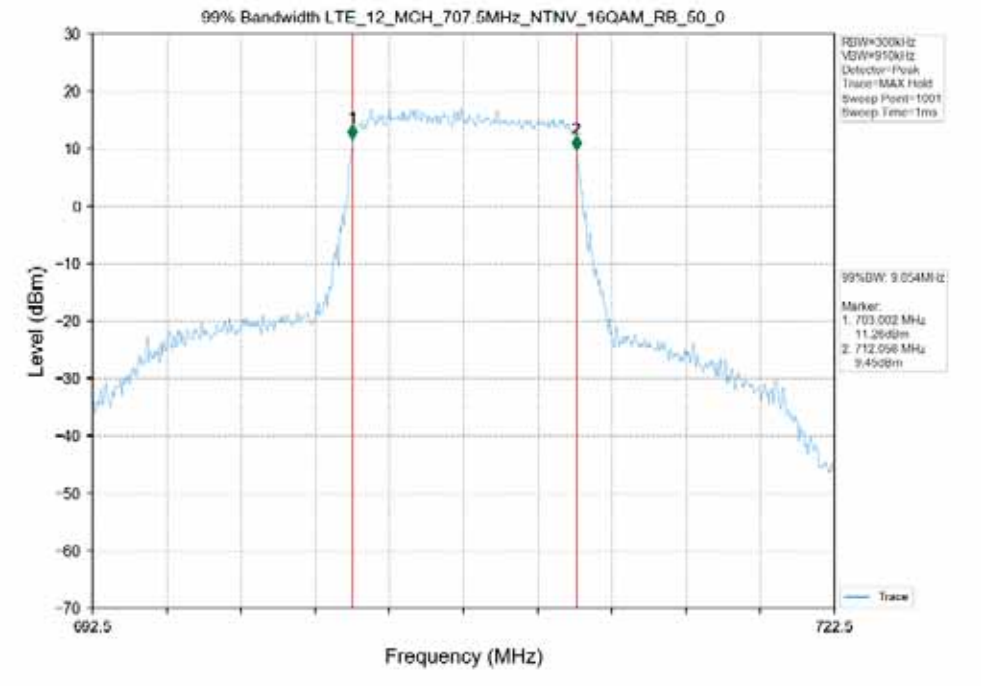


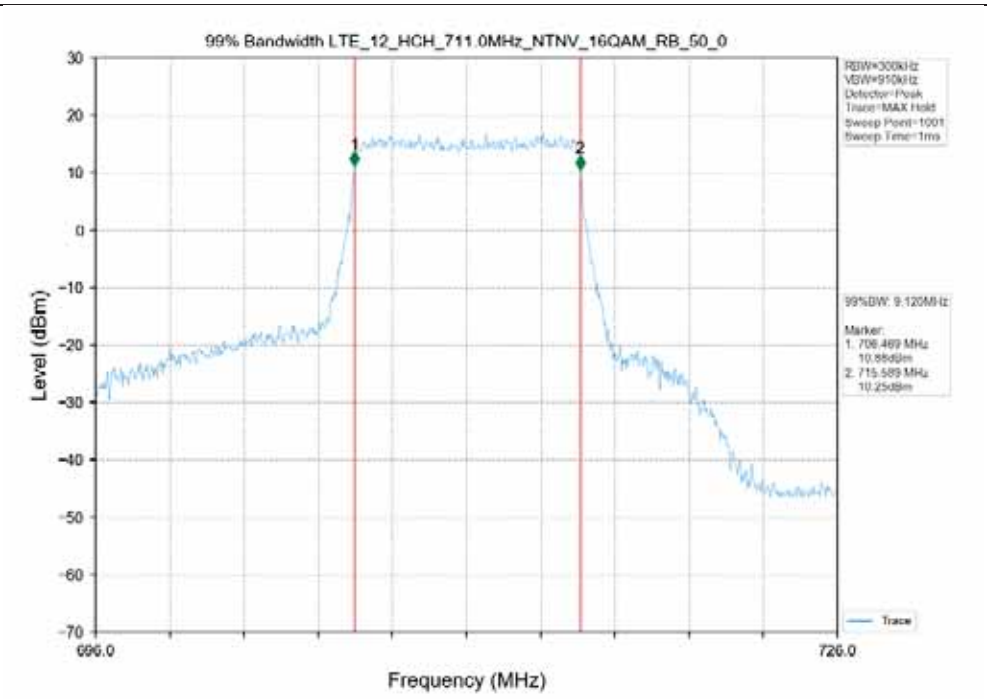


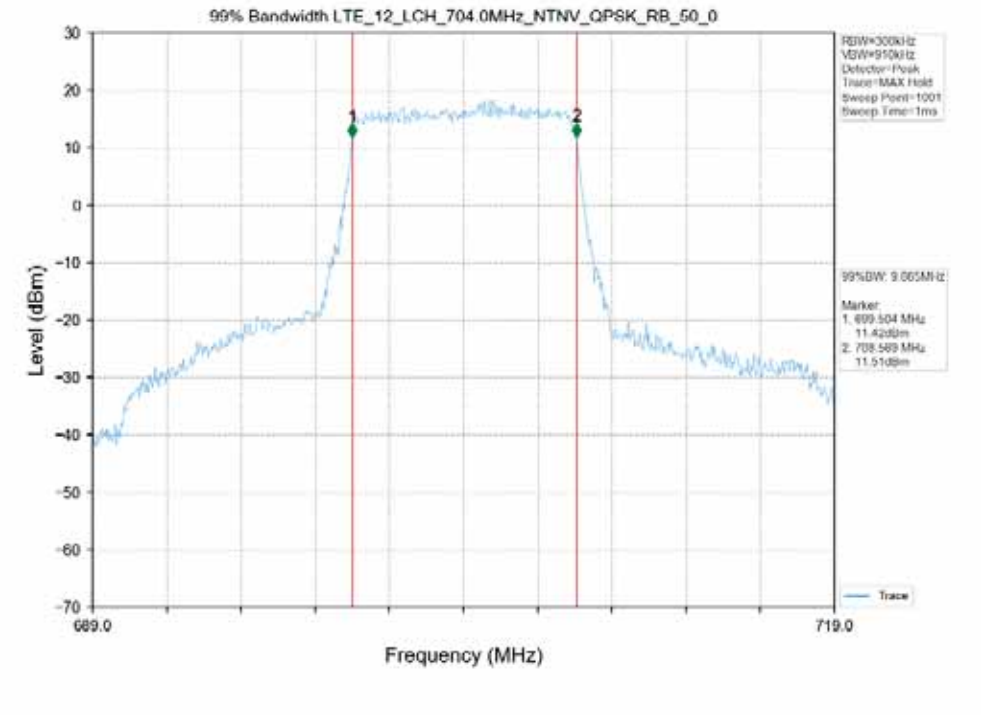
Test Band: 12 _ 10MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	9.060	9.050	9.110	N/A	PASS
16QAM	50	0	9.050	9.050	9.120	N/A	PASS

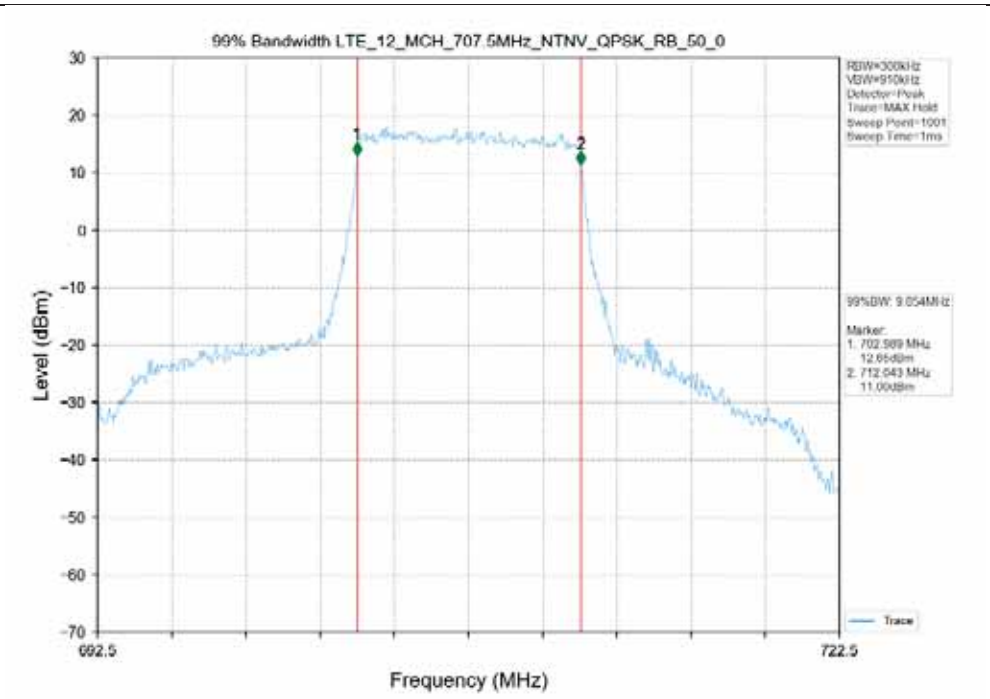
4.2 Test Graph

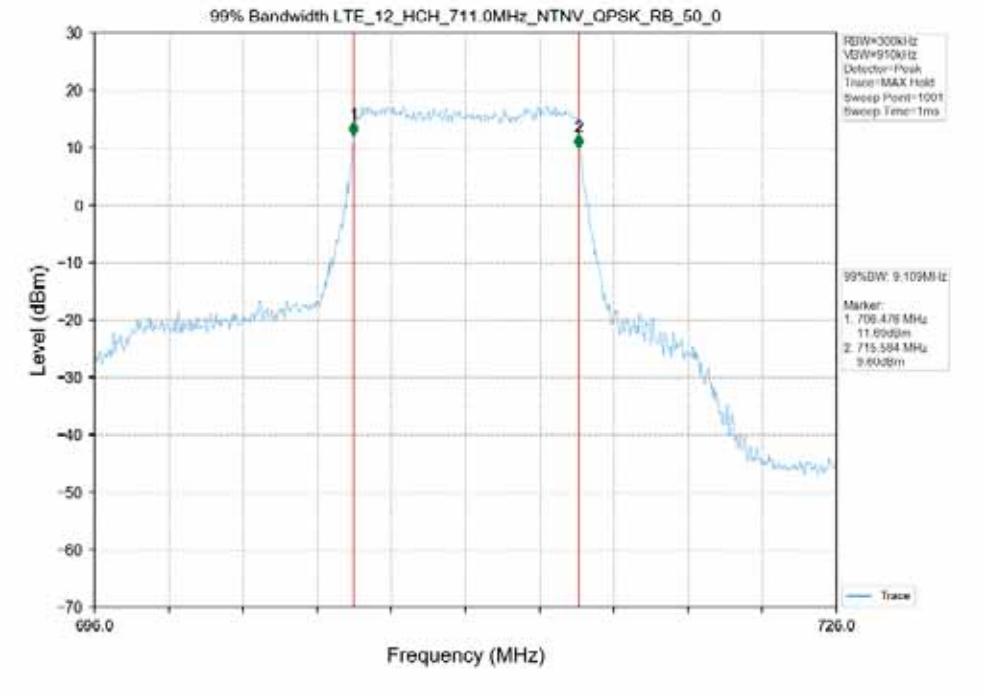





99% Bandwidth LTE_12_HCH_711.0MHz_NTNV_16QAM_RB_50_0
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 9.120MHz
Marker:
1. 706.469 MHz
10.88dBm
2. 715.589 MHz
10.25dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
696.0
726.0
Frequency (MHz)

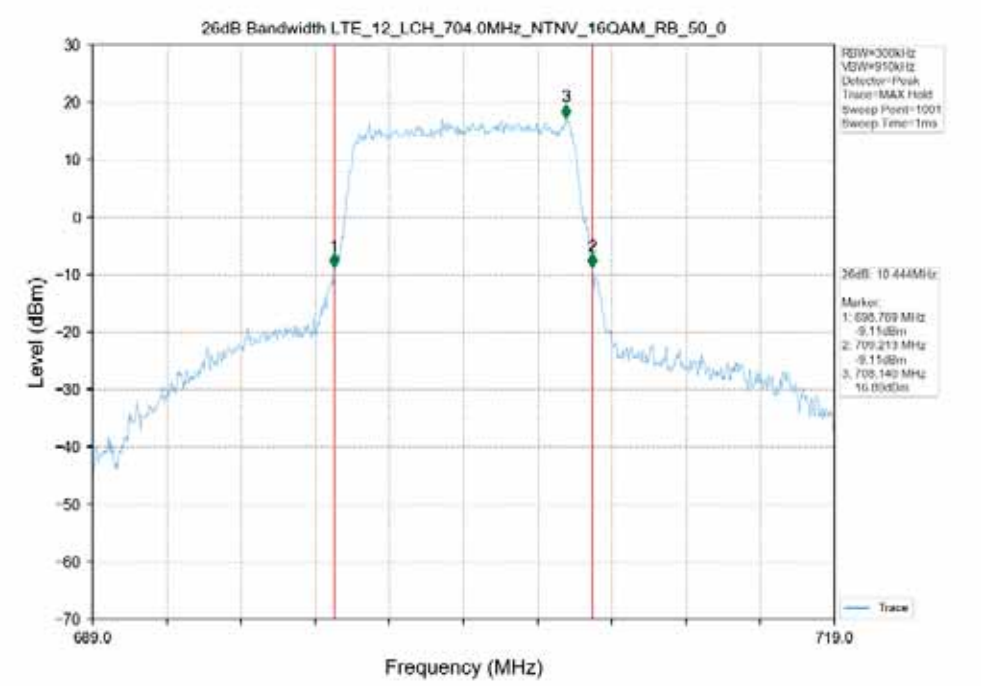

99% Bandwidth LTE_12_LCH_704.0MHz_NTNV_QPSK_RB_50_0
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 9.065MHz
Marker:
1. 699.504 MHz
11.42dBm
2. 708.569 MHz
11.51dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
689.0
719.0
Frequency (MHz)

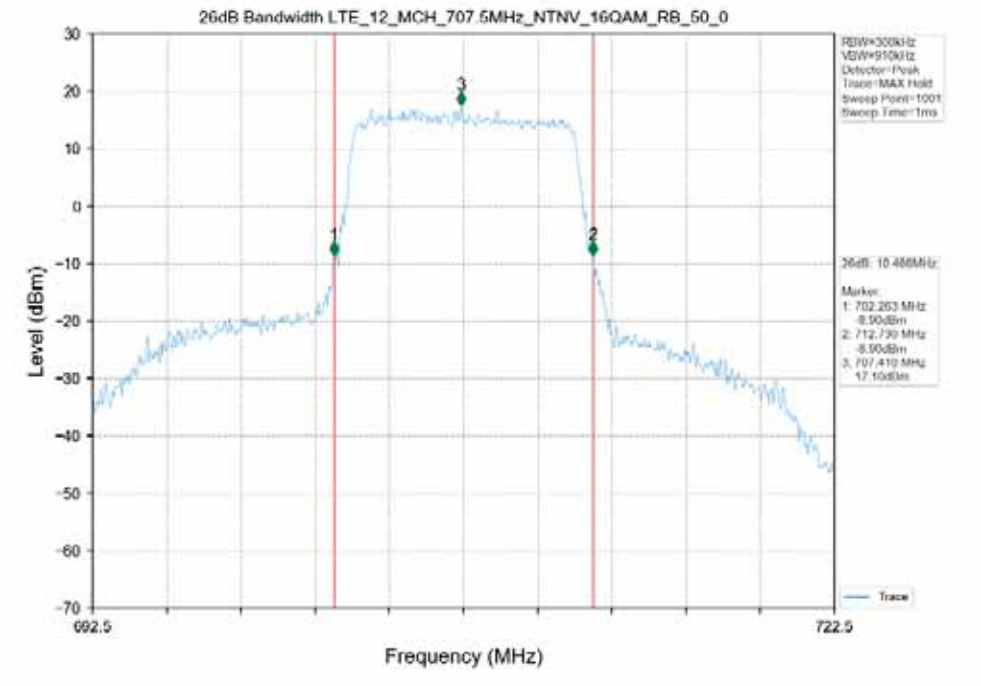


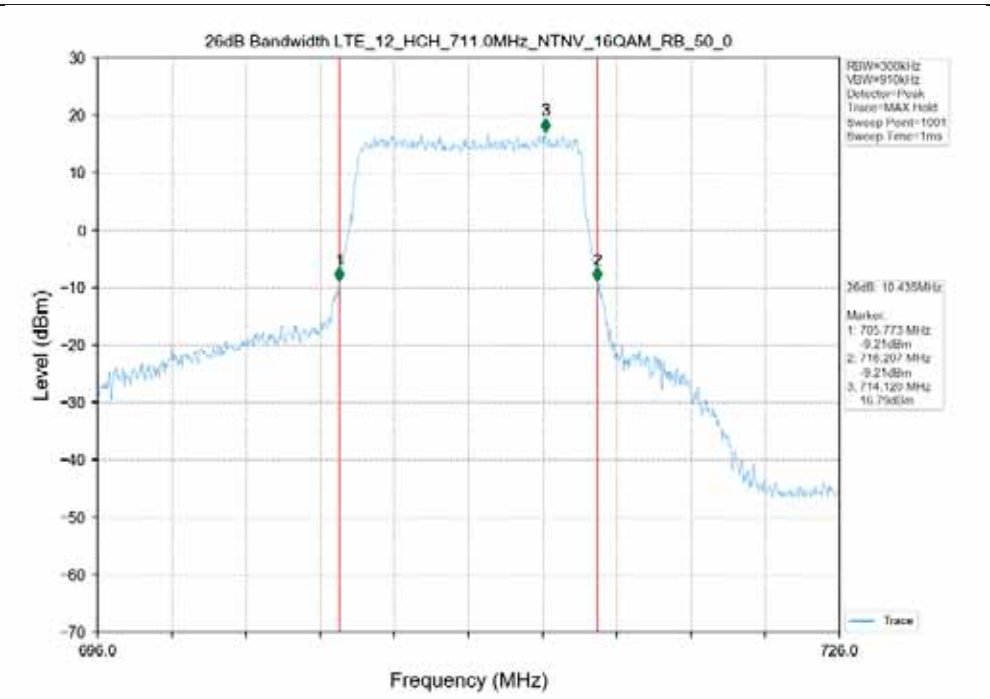


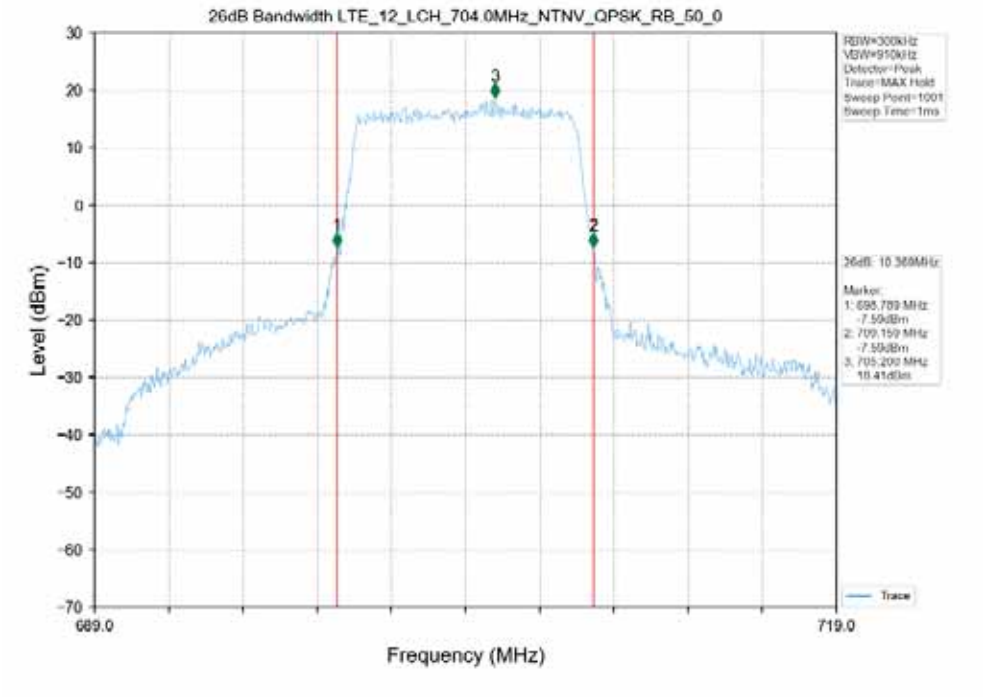
Test Band: 12 _ 10MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	10.370	10.360	10.570	N/A	PASS
16QAM	50	0	10.440	10.470	10.440	N/A	PASS

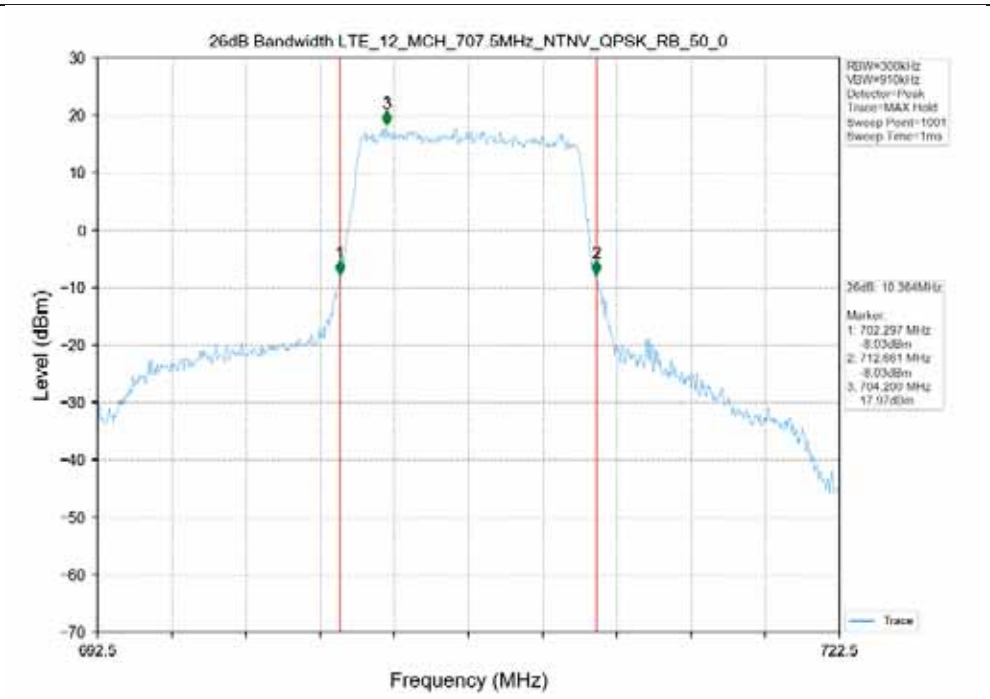
4.2 Test Graph

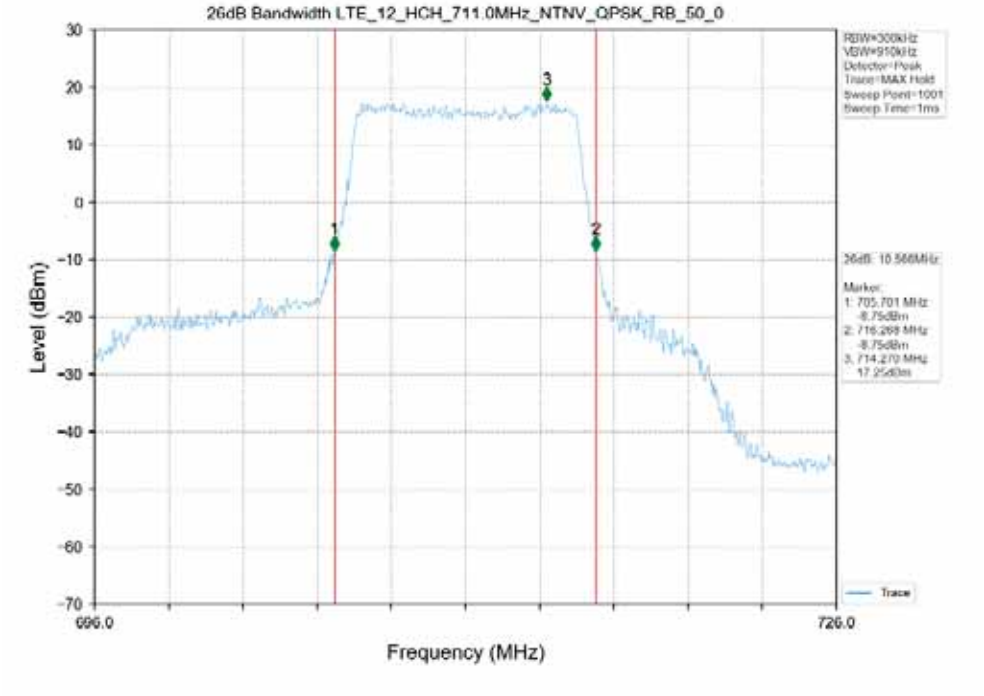





26dB Bandwidth LTE_12_HCH_711.0MHz_NTNV_16QAM_RB_50_0
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 10.435MHz
Marker
1: 705.773 MHz
-9.21dBm
2: 716.207 MHz
-9.21dBm
3: 714.120 MHz
16.79dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
696.0
726.0
Frequency (MHz)


26dB Bandwidth LTE_12_LCH_704.0MHz_NTNV_QPSK_RB_50_0
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 10.369MHz
Marker
1: 695.789 MHz
-7.59dBm
2: 709.159 MHz
-7.59dBm
3: 705.200 MHz
18.41dBm
Trace
Level (dBm)
30
20
10
0
-10
-20
-30
-40
-50
-60
-70
689.0
719.0
Frequency (MHz)


26dB Bandwidth LTE_12_MCH_707.5MHz_NTNV_QPSK_RB_50_0
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB 10.384MHz
Marker
1: 702.297 MHz
-8.03dBm
2: 712.681 MHz
-8.03dBm
3: 704.200 MHz
17.97dBm
Trace
Level (dBm)
Frequency (MHz)
692.5
722.5

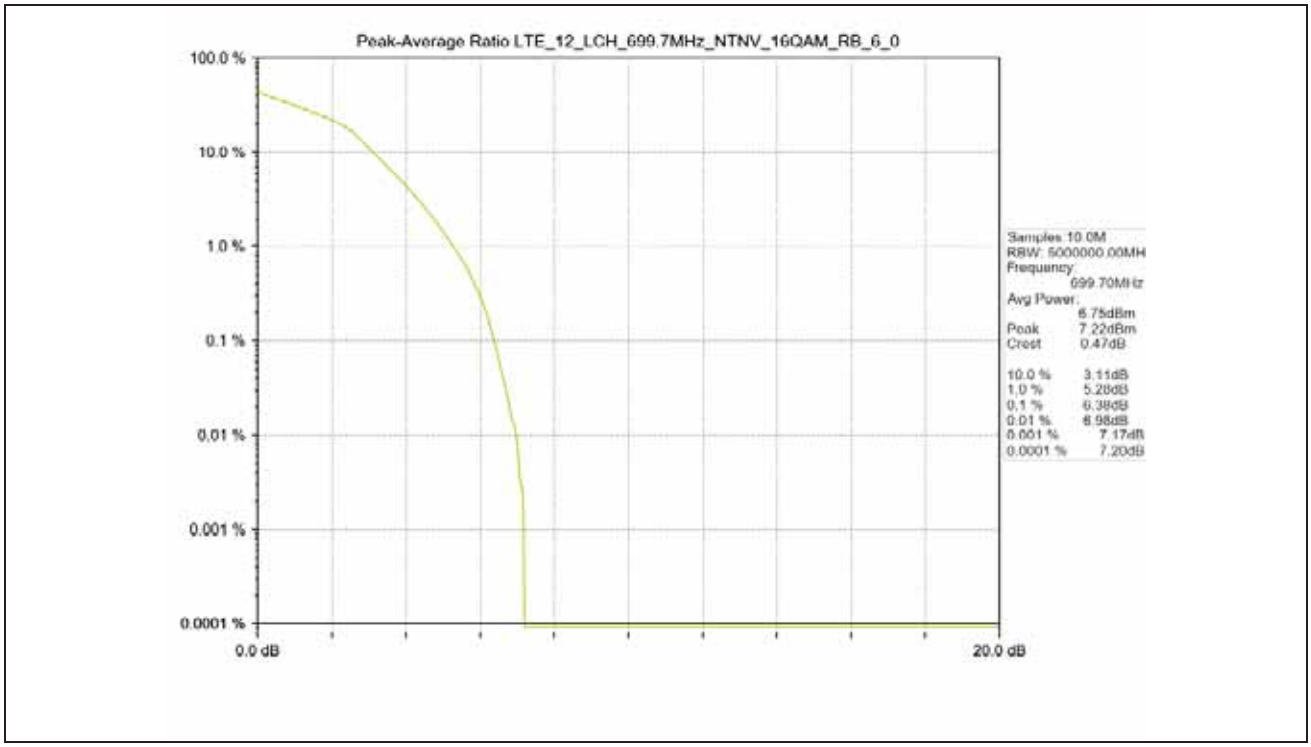

26dB Bandwidth LTE_12_HCH_711.0MHz_NTNV_QPSK_RB_50_0
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB 10.566MHz
Marker
1: 705.701 MHz
-8.75dBm
2: 716.268 MHz
-8.75dBm
3: 714.270 MHz
17.25dBm
Trace
Level (dBm)
Frequency (MHz)
696.0
726.0

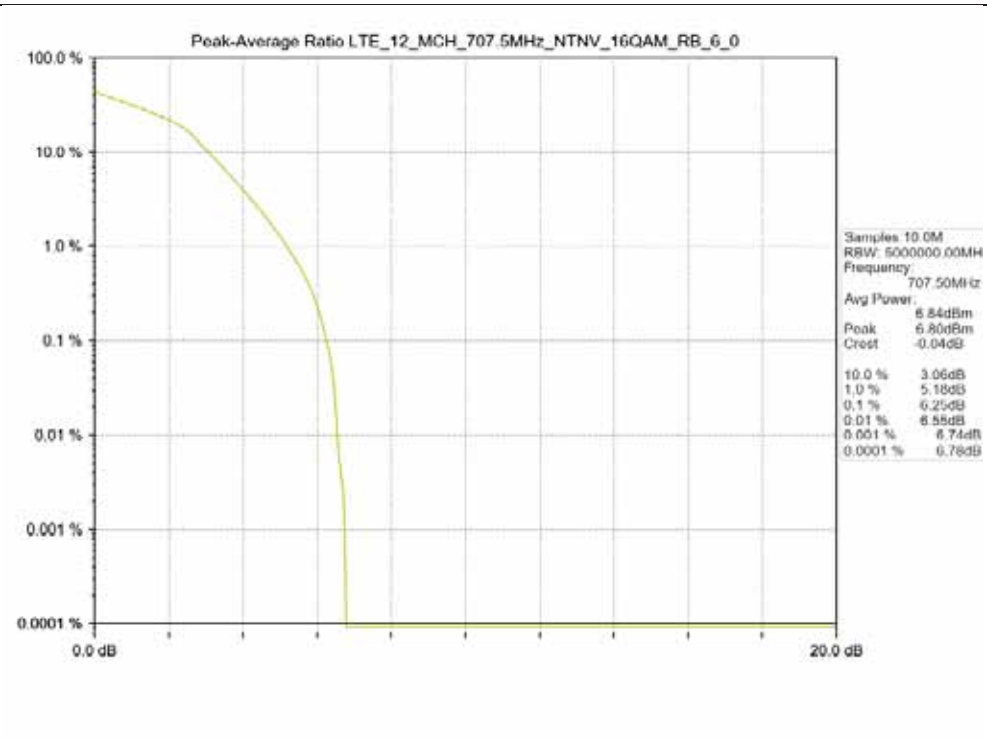
5. Peak-Average Ratio

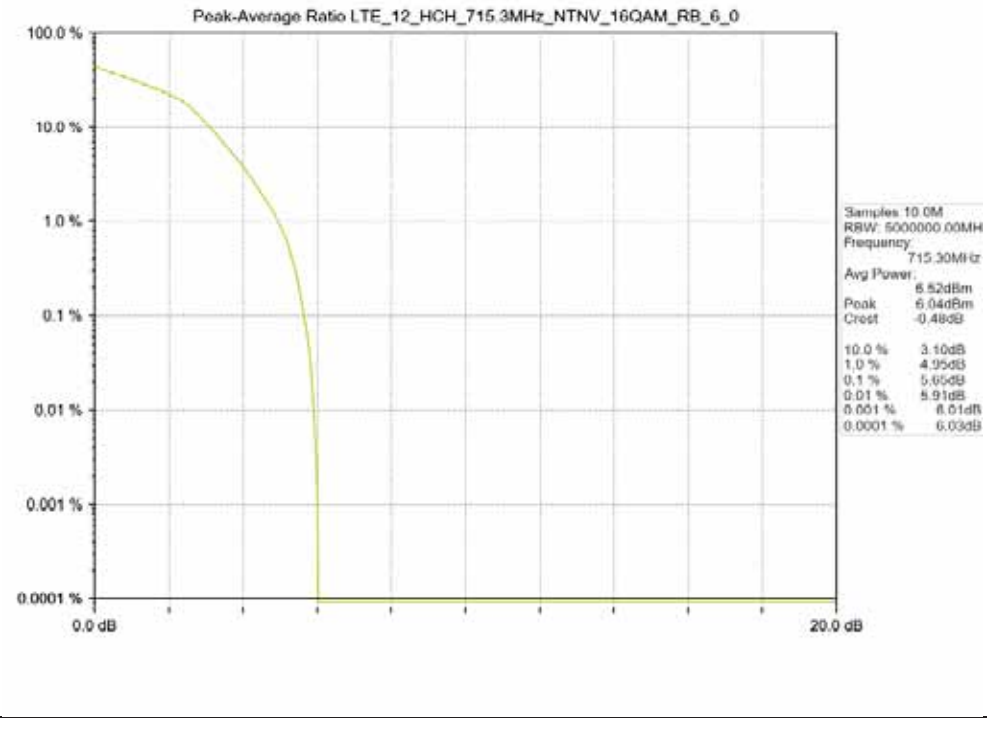
5.1 Test Result

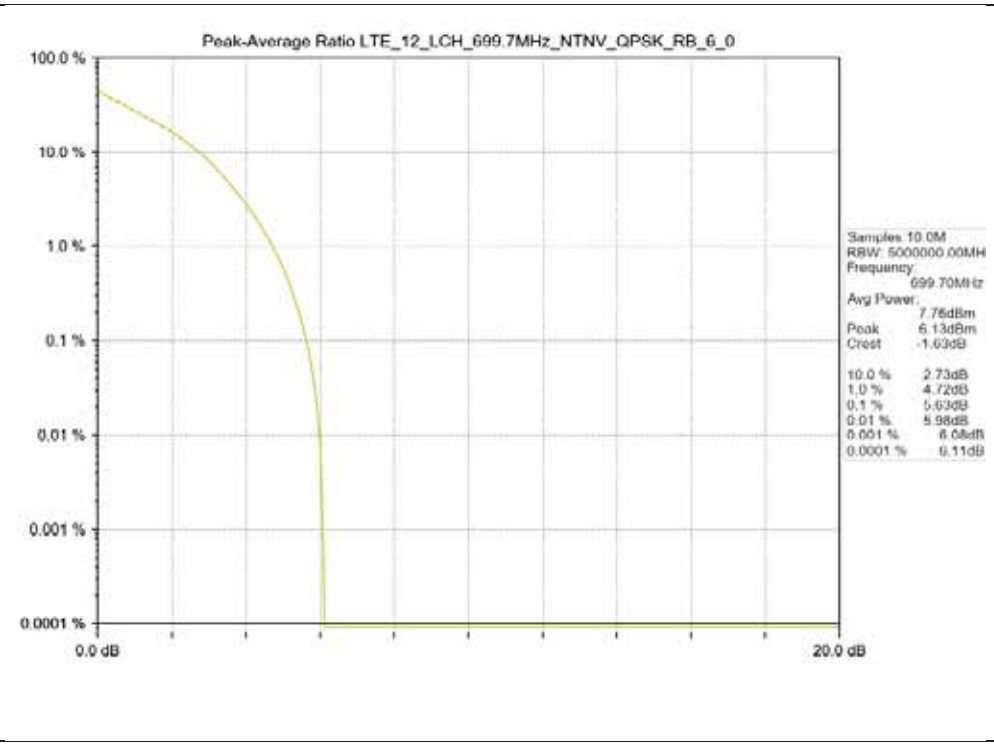
Test Band: 12 _ 1.4MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	5.63	5.30	4.66	13	PASS
16QAM	6	0	6.38	6.25	5.65	13	PASS

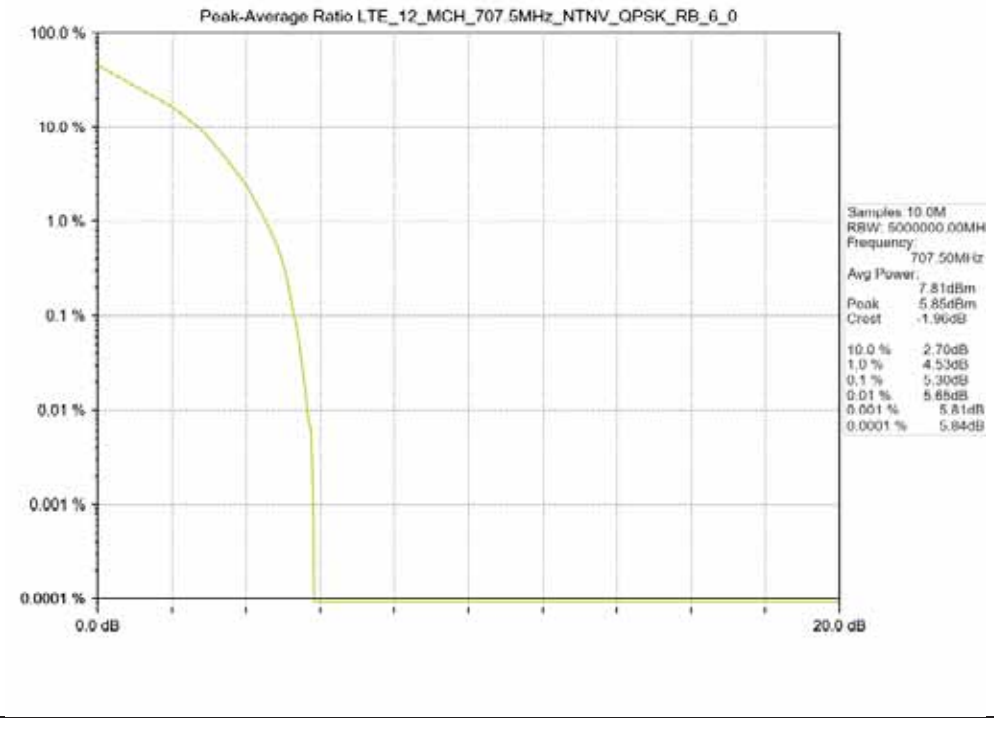
5.2 Test Graph

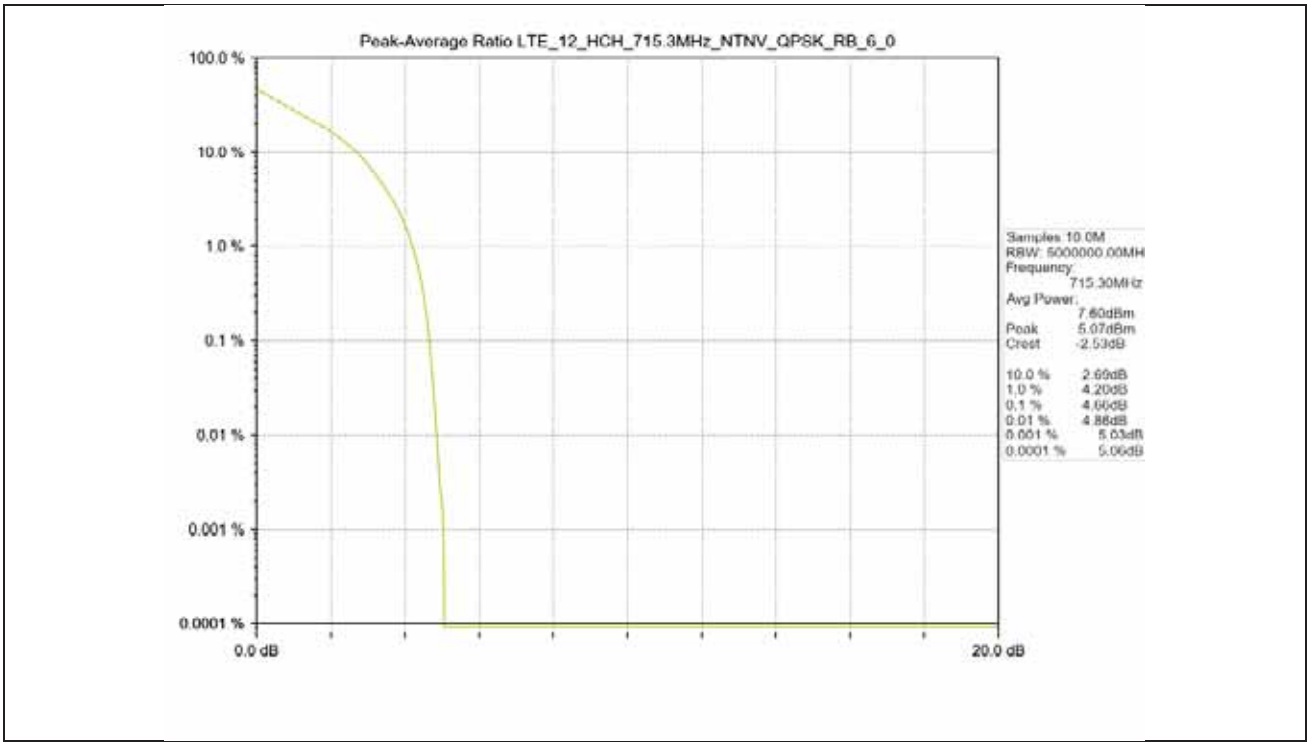



Peak-Average Ratio LTE_12_MCH_707.5MHz_NTNV_16QAM_RB_6_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
707.50MHz
Avg Power:
6.84dBm
Peak 6.80dBm
Crest -0.04dB
10.0 % 3.06dB
1.0 % 5.18dB
0.1 % 6.25dB
0.01 % 6.55dB
0.001 % 6.74dB
0.0001 % 6.78dB


Peak-Average Ratio LTE_12_HCH_715.3MHz_NTNV_16QAM_RB_6_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
715.30MHz
Avg Power:
6.52dBm
Peak 6.04dBm
Crest -0.48dB
10.0 % 3.10dB
1.0 % 4.95dB
0.1 % 5.65dB
0.01 % 5.91dB
0.001 % 6.01dB
0.0001 % 6.03dB

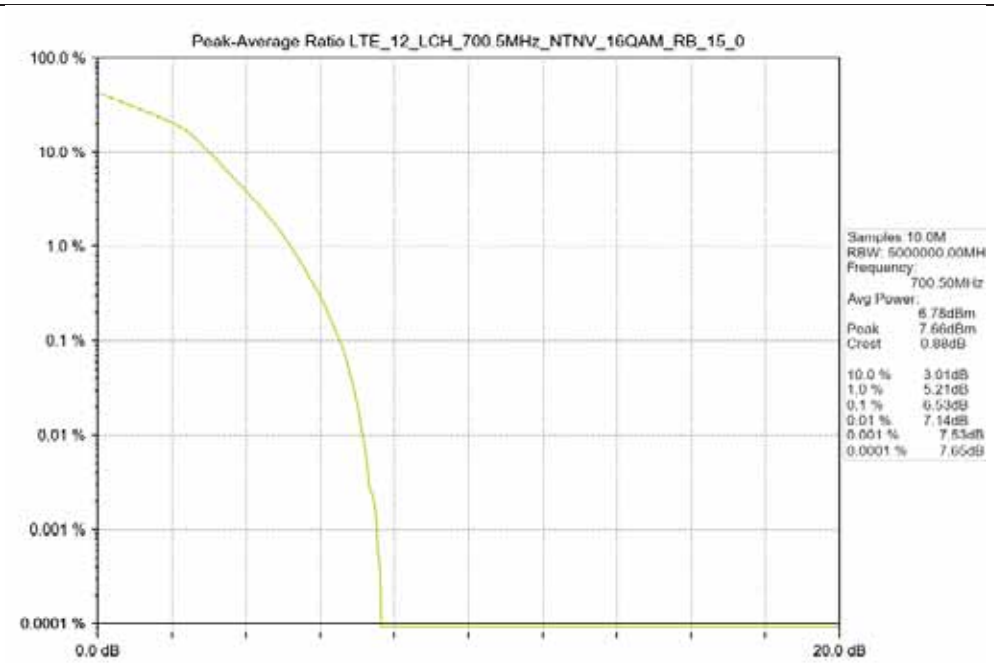

Peak-Average Ratio LTE_12_LCH_699.7MHz_NTNV_QPSK_RB_6_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
699.70MHz
Avg Power:
7.76dBm
Peak 6.13dBm
Crest -1.63dB
10.0 % 2.73dB
1.0 % 4.72dB
0.1 % 5.63dB
0.01 % 5.98dB
0.001 % 6.08dB
0.0001 % 6.11dB

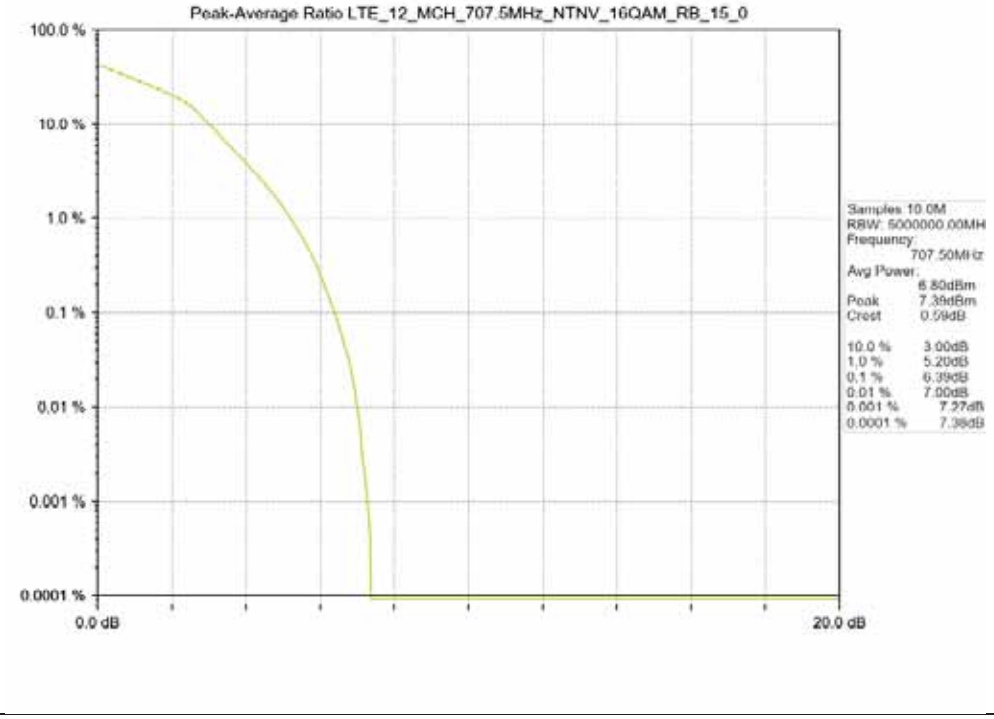

Peak-Average Ratio LTE_12_MCH_707.5MHz_NTNV_QPSK_RB_6_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
707.50MHz
Avg Power:
7.81dBm
Peak 5.85dBm
Crest -1.96dB
10.0 % 2.70dB
1.0 % 4.53dB
0.1 % 5.30dB
0.01 % 5.65dB
0.001 % 5.81dB
0.0001 % 5.84dB

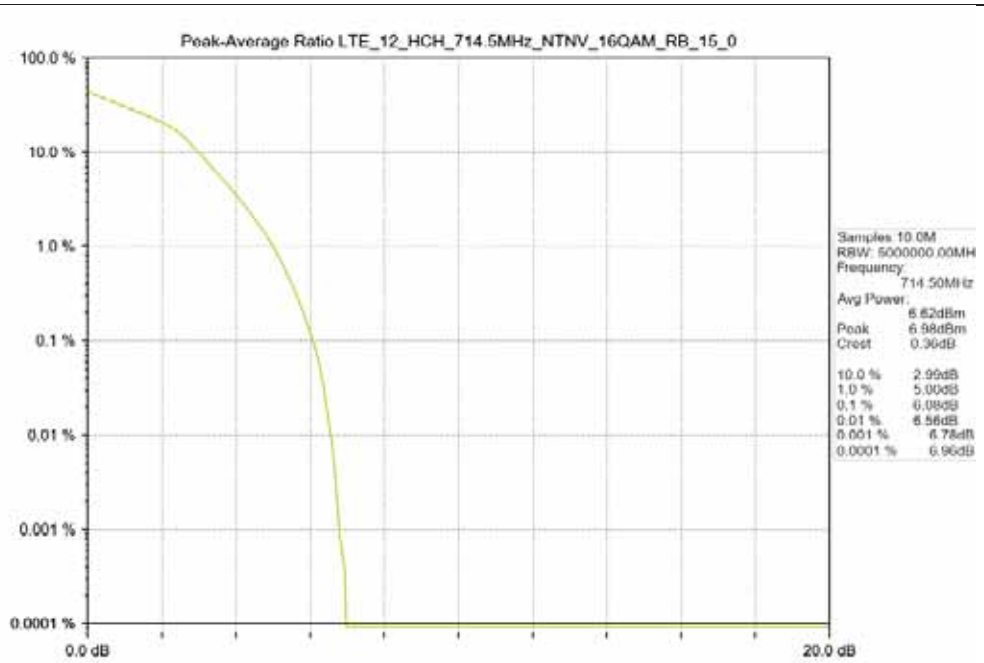


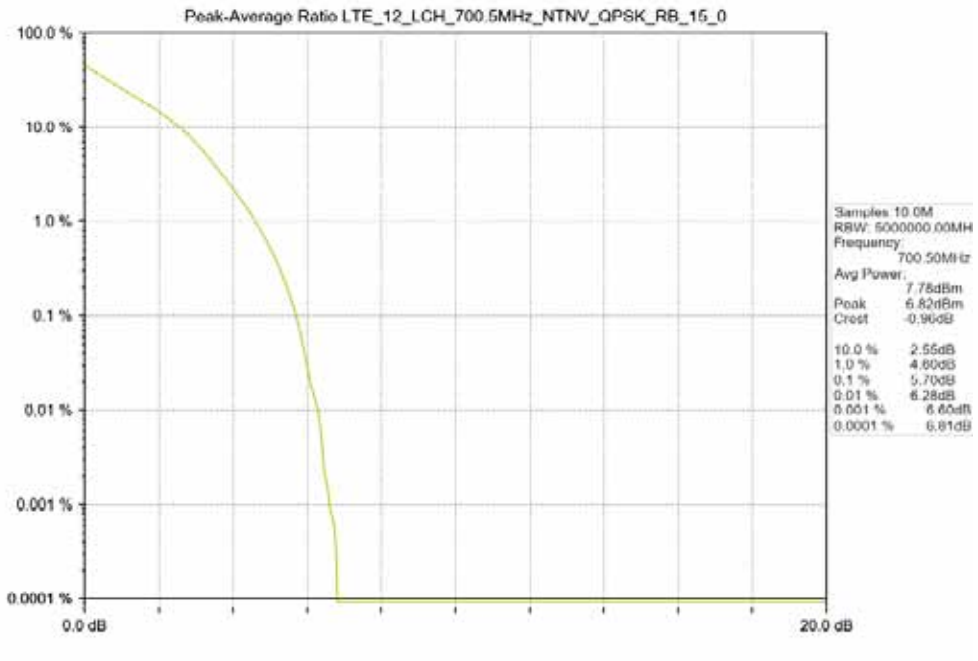
Test Band: 12 _ 3MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	5.70	5.49	5.18	13	PASS
16QAM	15	0	6.53	6.39	6.08	13	PASS

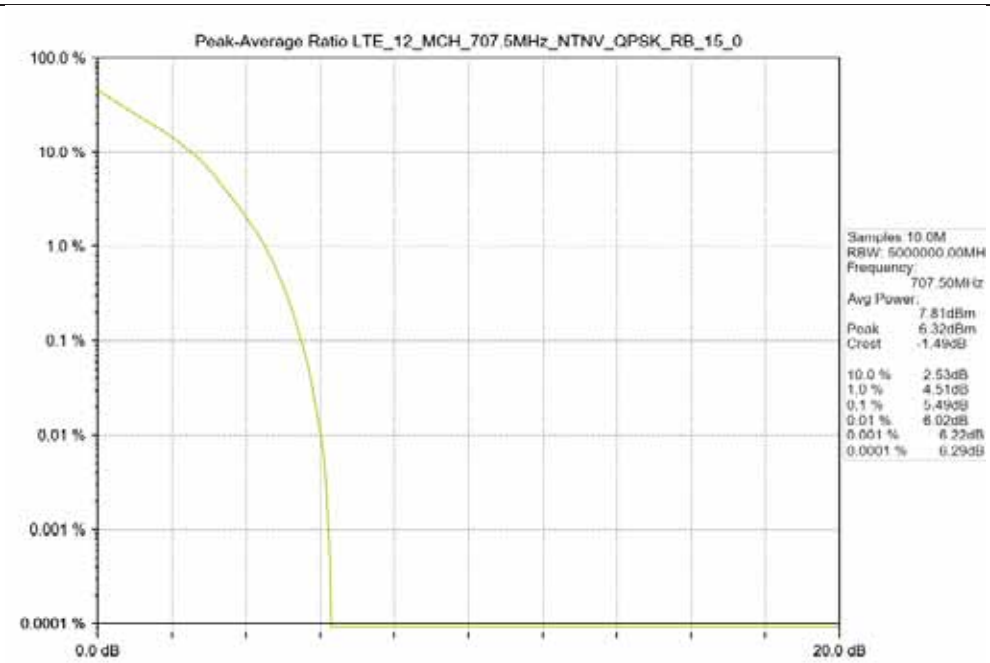
5.2 Test Graph

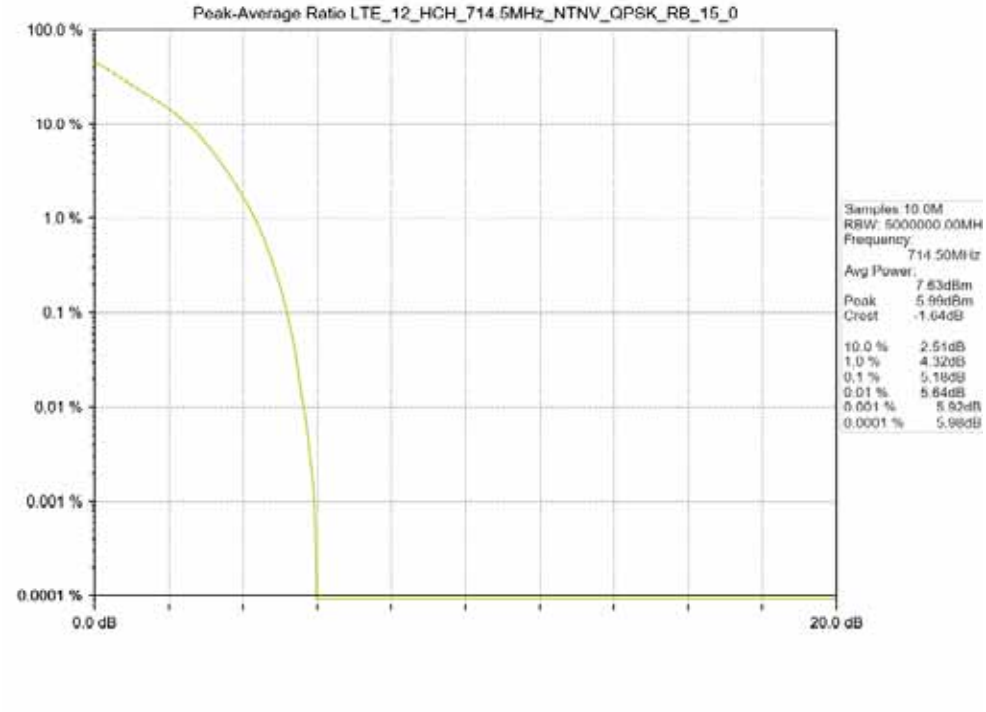

Peak-Average Ratio LTE_12_LCH_700.5MHz_NTNV_16QAM_RB_15_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
700.50MHz
Avg Power:
6.78dBm
Peak 7.66dBm
Crest 0.88dB
10.0 % 3.01dB
1.0 % 5.21dB
0.1 % 6.53dB
0.01 % 7.14dB
0.001 % 7.53dB
0.0001 % 7.65dB


Peak-Average Ratio LTE_12_MCH_707.5MHz_NTNV_16QAM_RB_15_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
707.50MHz
Avg Power:
6.80dBm
Peak 7.39dBm
Crest 0.59dB
10.0 % 3.00dB
1.0 % 5.20dB
0.1 % 6.39dB
0.01 % 7.00dB
0.001 % 7.27dB
0.0001 % 7.38dB


Peak-Average Ratio LTE_12_HCH_714.5MHz_NTNV_16QAM_RB_15_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
714.50MHz
Avg Power:
6.62dBm
Peak 6.98dBm
Crest 0.36dB
10.0 % 2.99dB
1.0 % 5.00dB
0.1 % 6.08dB
0.01 % 6.56dB
0.001 % 6.78dB
0.0001 % 6.96dB

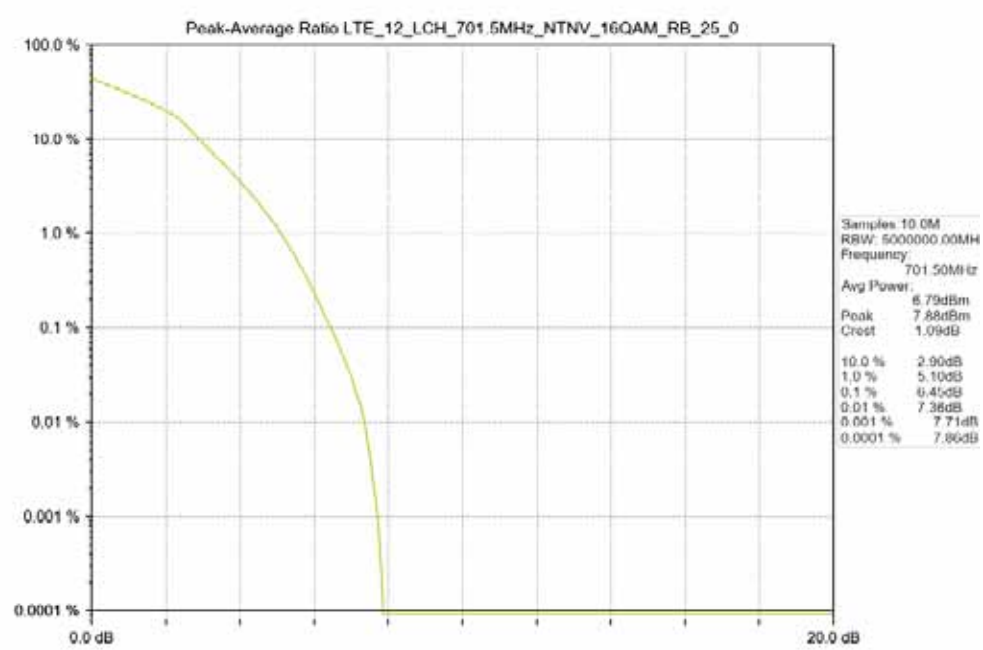

Peak-Average Ratio LTE_12_LCH_700.5MHz_NTNV_QPSK_RB_15_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
700.50MHz
Avg Power:
7.78dBm
Peak 8.82dBm
Crest 1.04dB
10.0 % 2.55dB
1.0 % 4.60dB
0.1 % 5.70dB
0.01 % 6.28dB
0.001 % 6.60dB
0.0001 % 6.81dB

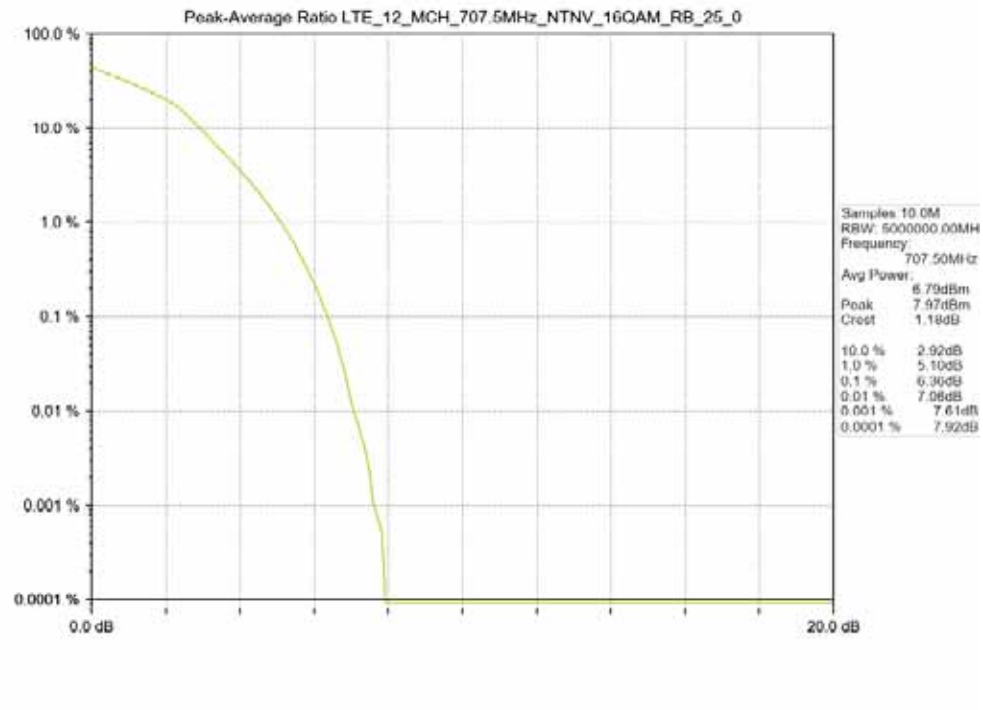


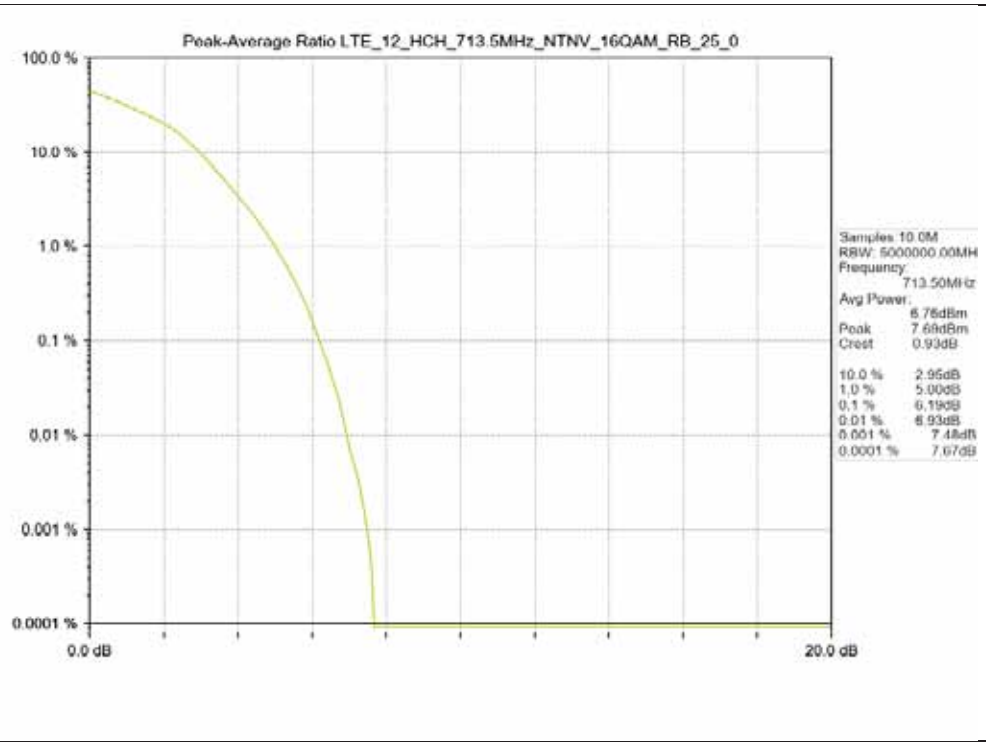


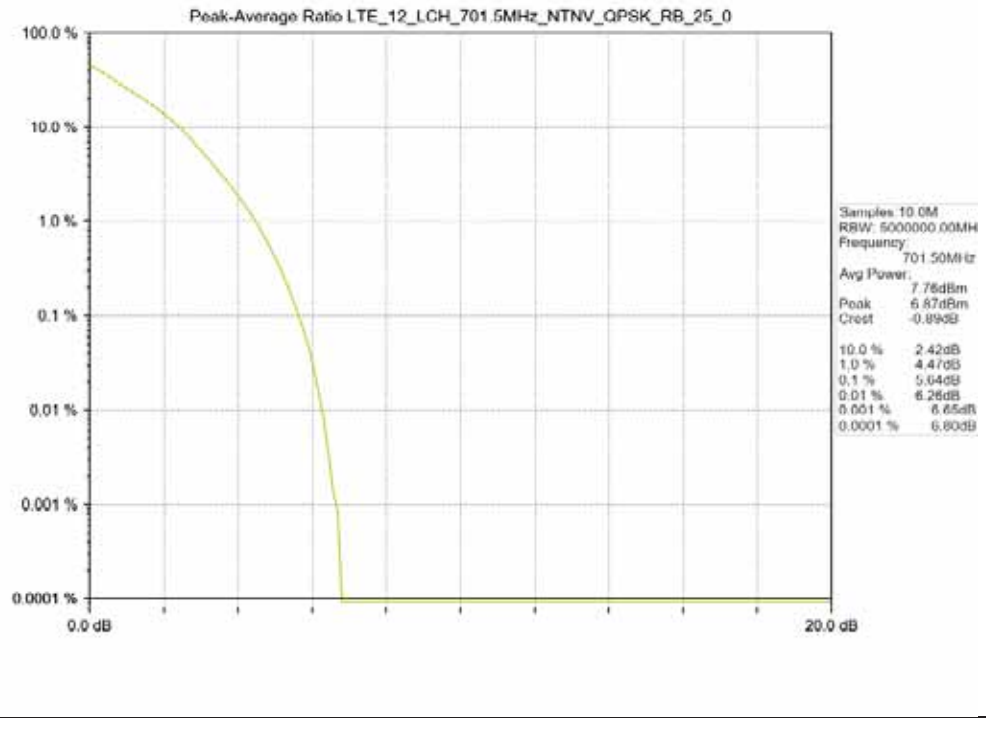
Test Band: 12 _ 5MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	5.64	5.60	5.46	13	PASS
16QAM	25	0	6.45	6.36	6.19	13	PASS

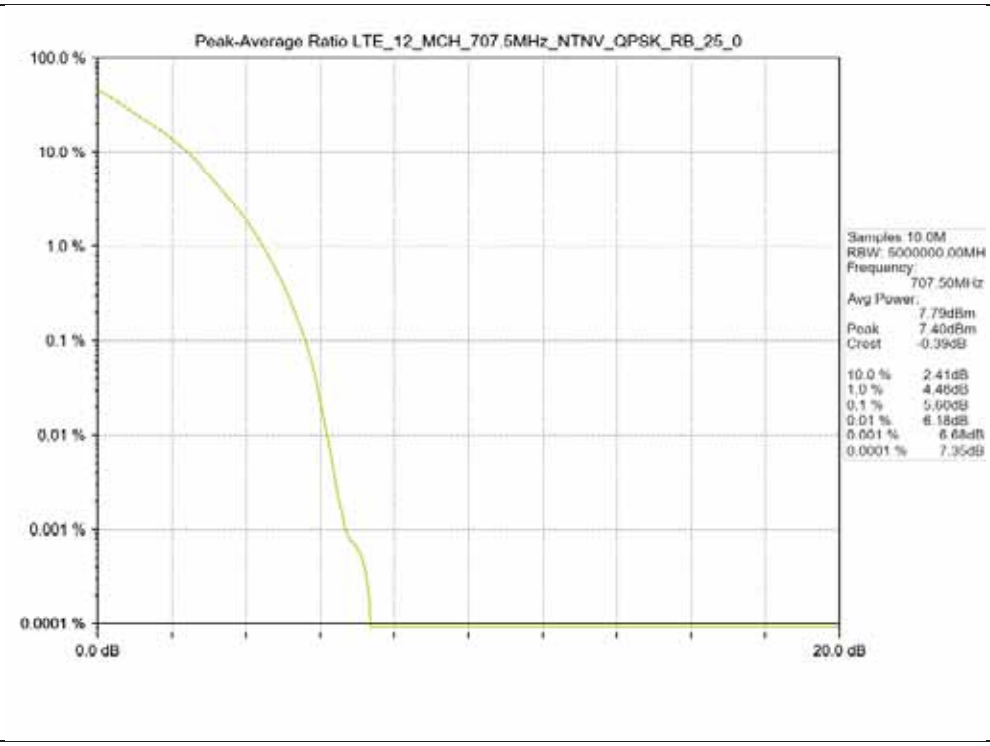
5.2 Test Graph

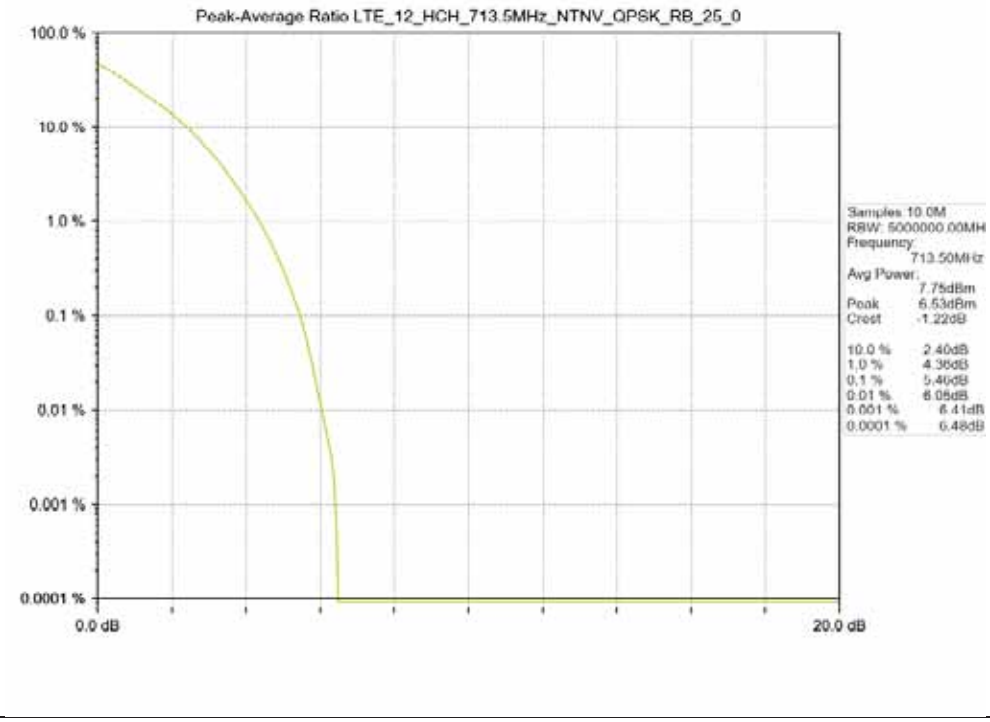





Peak-Average Ratio LTE_12_HCH_713.5MHz_NTNV_16QAM_RB_25_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
713.50MHz
Avg Power:
6.78dBm
Peak 7.69dBm
Crest 0.93dB
10.0 % 2.95dB
1.0 % 5.00dB
0.1 % 6.19dB
0.01 % 6.93dB
0.001 % 7.48dB
0.0001 % 7.67dB

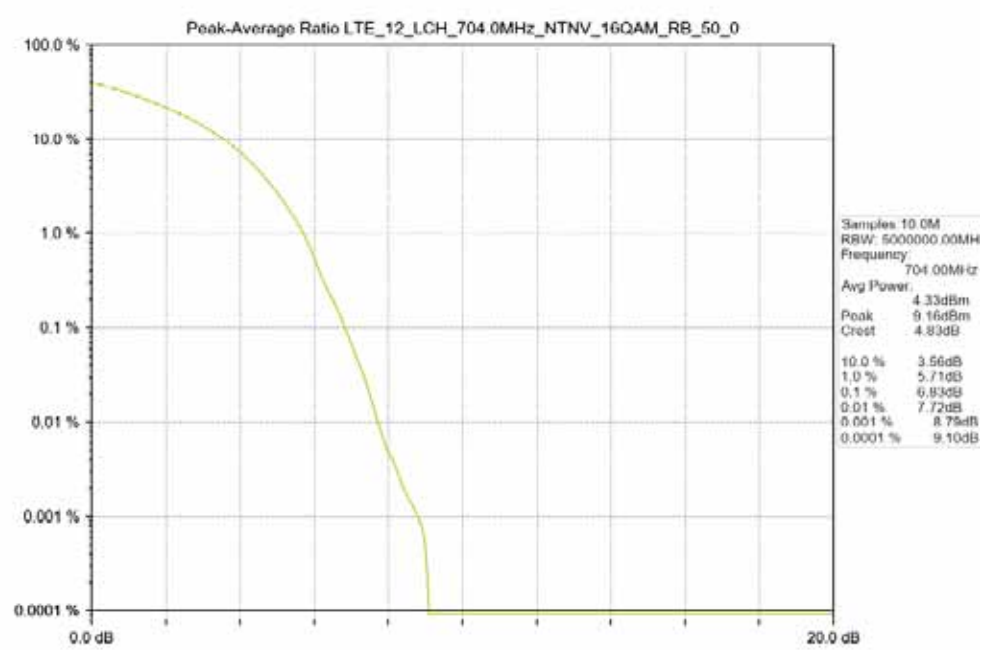

Peak-Average Ratio LTE_12_LCH_701.5MHz_NTNV_QPSK_RB_25_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
701.50MHz
Avg Power:
7.76dBm
Peak 6.87dBm
Crest -0.89dB
10.0 % 2.42dB
1.0 % 4.47dB
0.1 % 5.64dB
0.01 % 6.26dB
0.001 % 6.65dB
0.0001 % 6.80dB

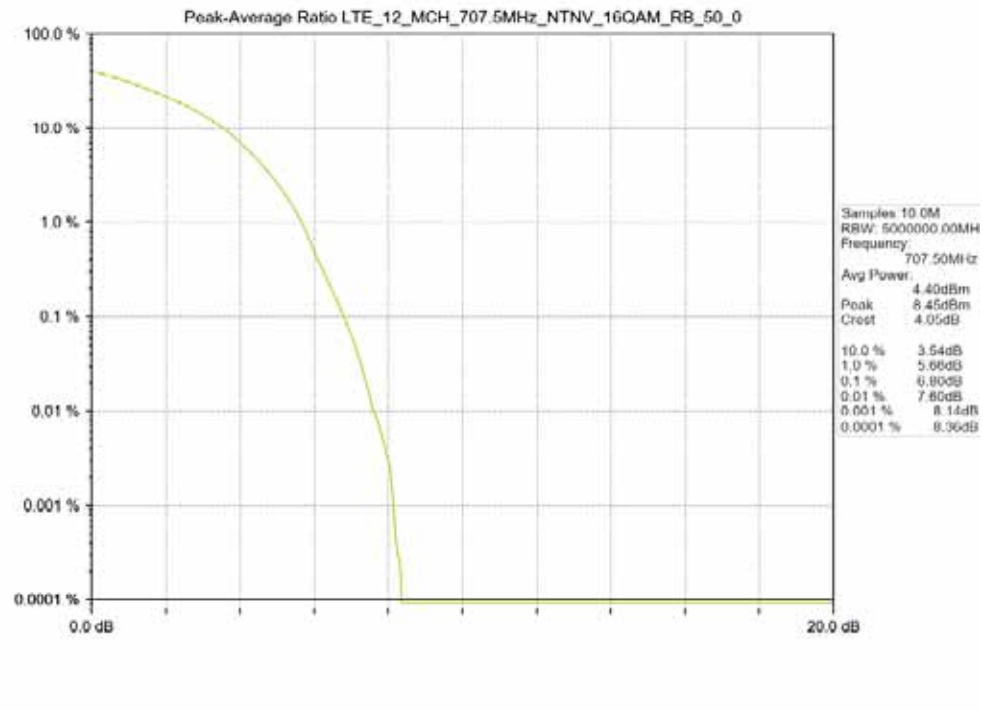


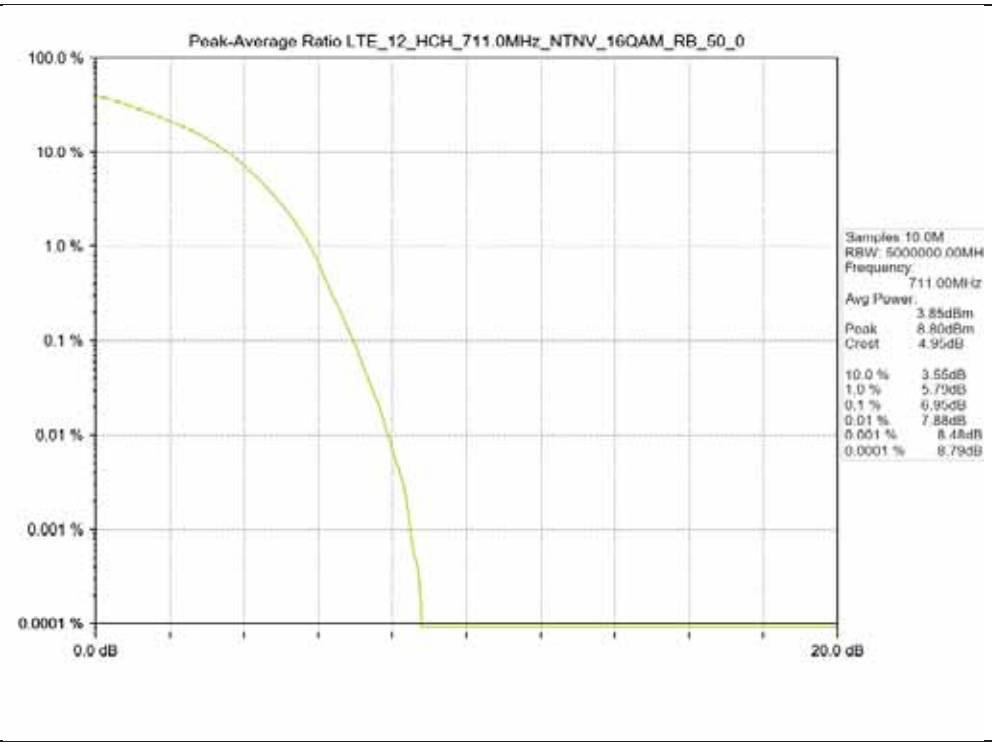


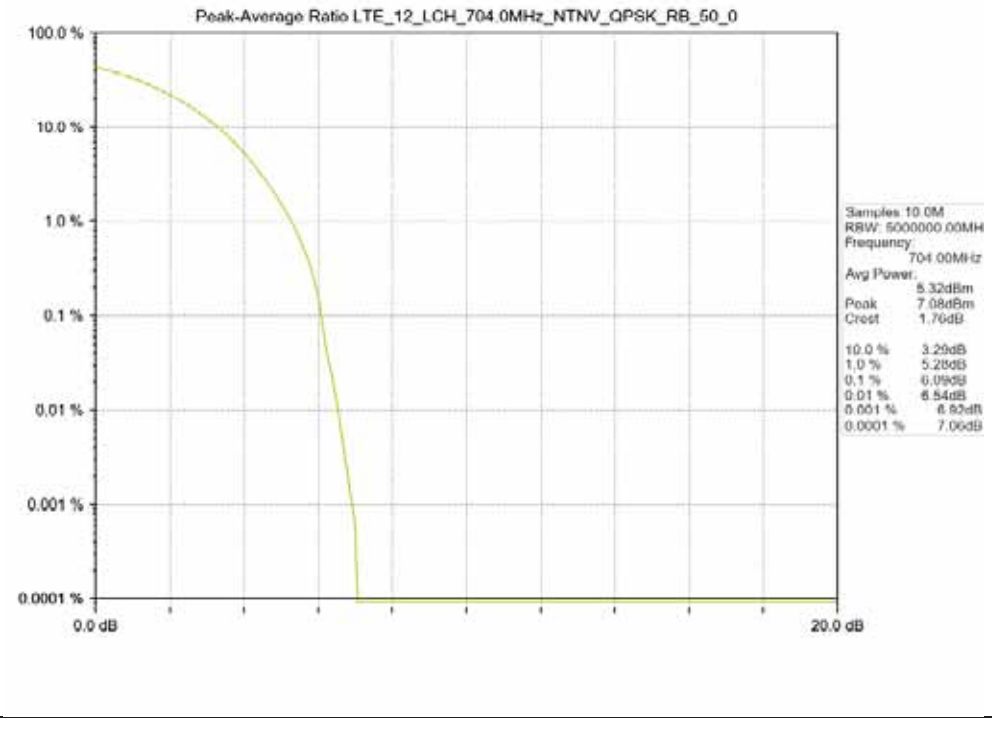
Test Band: 12 _ 10MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	6.09	5.99	6.16	13	PASS
16QAM	50	0	6.83	6.80	6.95	13	PASS

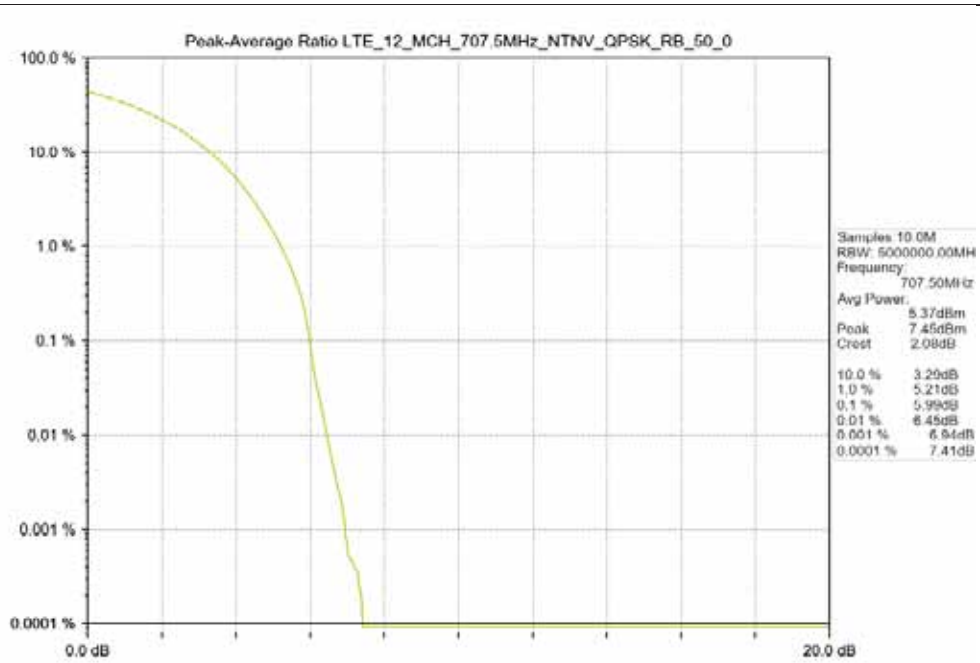
5.2 Test Graph

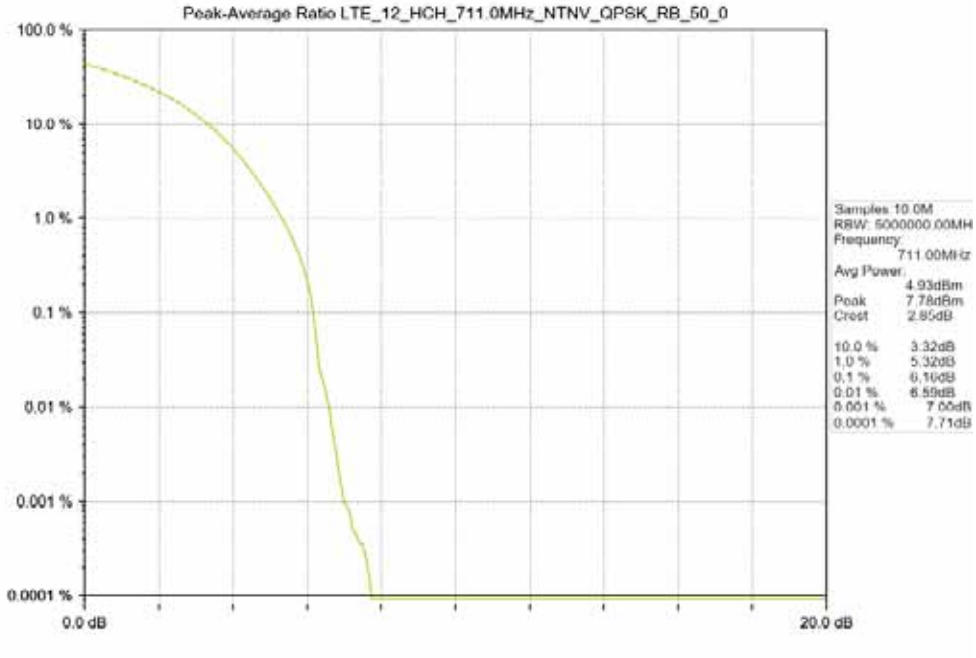





Peak-Average Ratio LTE_12_HCH_711.0MHz_NTNV_16QAM_RB_50_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
711.00MHz
Avg Power:
3.85dBm
Peak 8.80dBm
Crest 4.95dB
10.0 % 3.55dB
1.0 % 5.79dB
0.1 % 6.95dB
0.01 % 7.88dB
0.001 % 8.48dB
0.0001 % 8.79dB

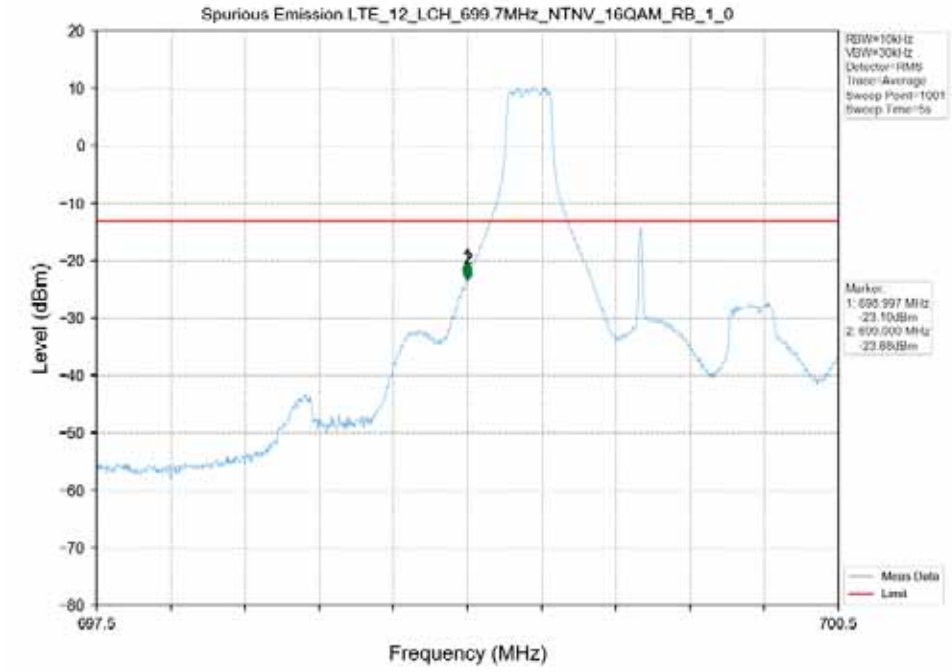

Peak-Average Ratio LTE_12_LCH_704.0MHz_NTNV_QPSK_RB_50_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
704.00MHz
Avg Power:
5.32dBm
Peak 7.08dBm
Crest 1.76dB
10.0 % 3.20dB
1.0 % 5.28dB
0.1 % 6.09dB
0.01 % 6.54dB
0.001 % 6.83dB
0.0001 % 7.06dB

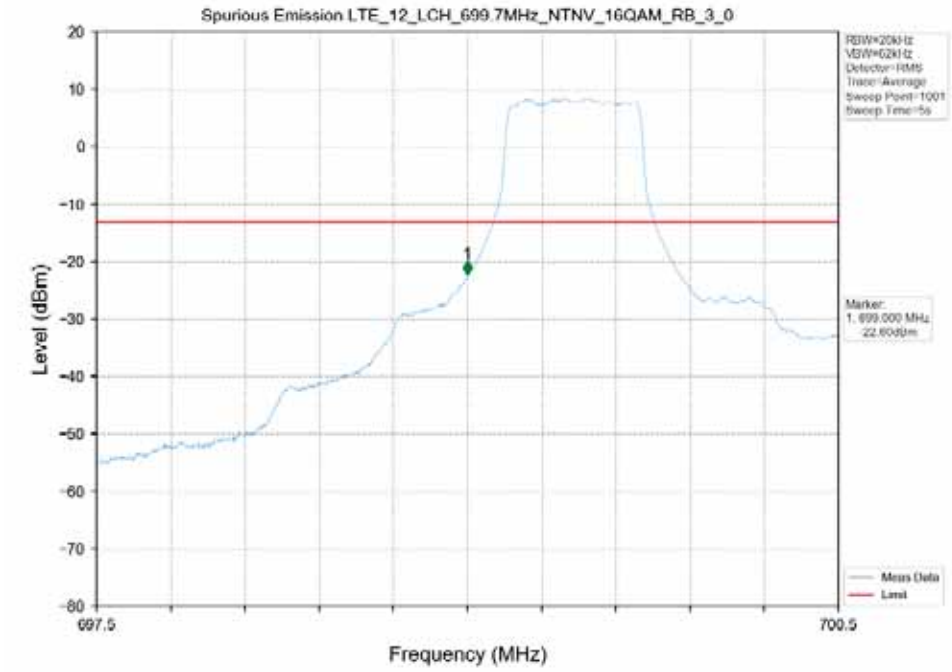

Peak-Average Ratio LTE_12_MCH_707.5MHz_NTNV_QPSK_RB_50_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
707.50MHz
Avg Power:
5.37dBm
Peak 7.45dBm
Crest 2.08dB
10.0 % 3.20dB
1.0 % 5.21dB
0.1 % 5.99dB
0.01 % 6.45dB
0.001 % 6.94dB
0.0001 % 7.41dB

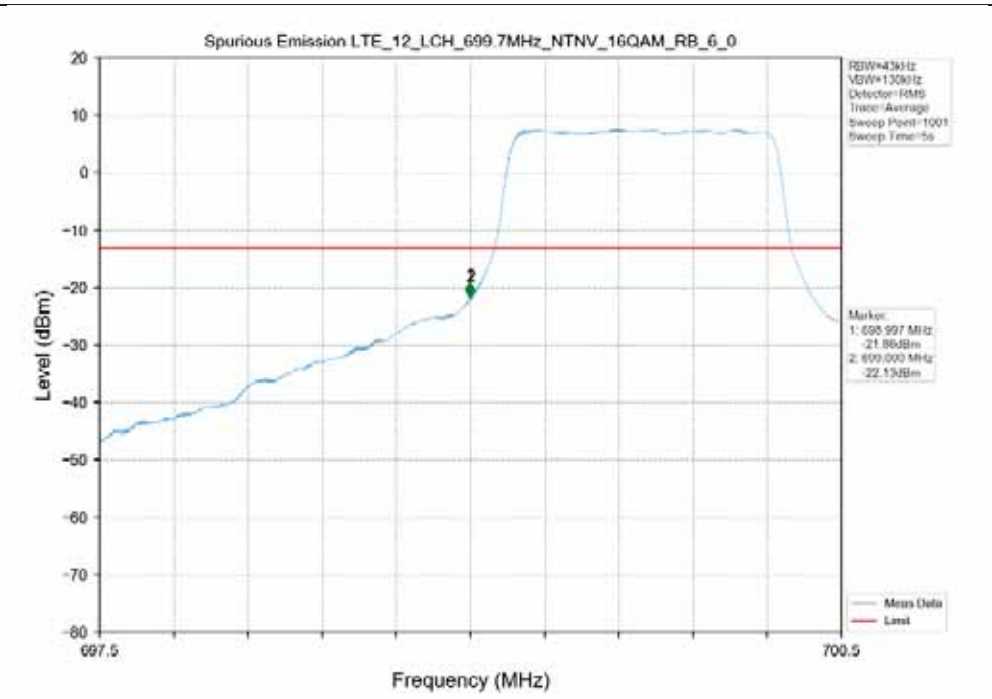

Peak-Average Ratio LTE_12_HCH_711.0MHz_NTNV_QPSK_RB_50_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples 10.0M
RBW: 5000000.00MH
Frequency:
711.00MHz
Avg Power:
4.93dBm
Peak 7.78dBm
Crest 2.85dB
10.0 % 3.32dB
1.0 % 5.32dB
0.1 % 6.10dB
0.01 % 6.59dB
0.001 % 7.06dB
0.0001 % 7.71dB

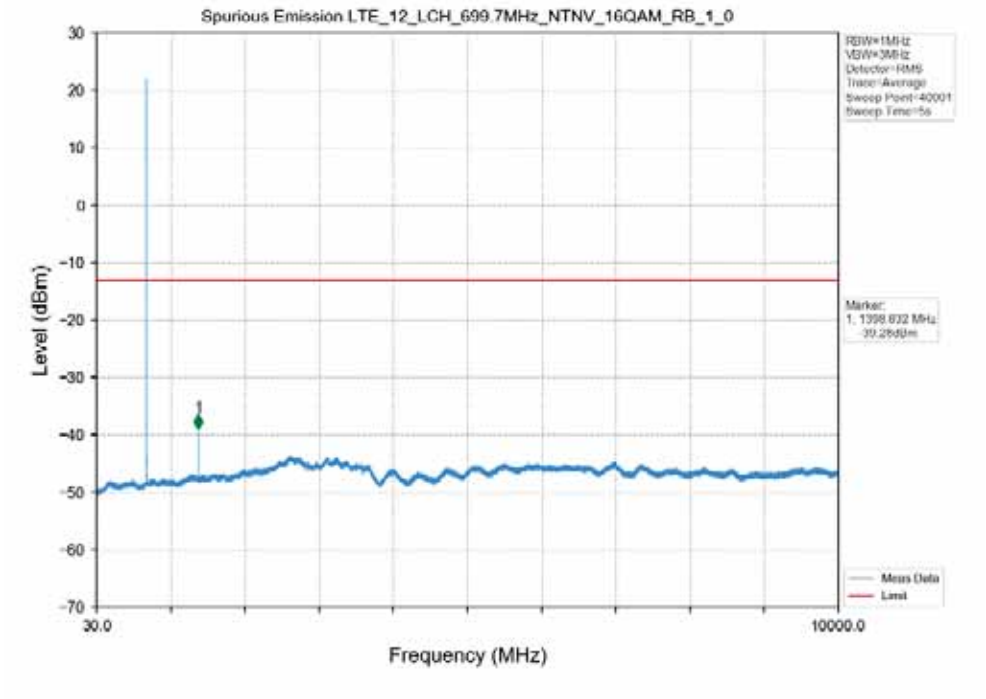
6. Spurious Emission

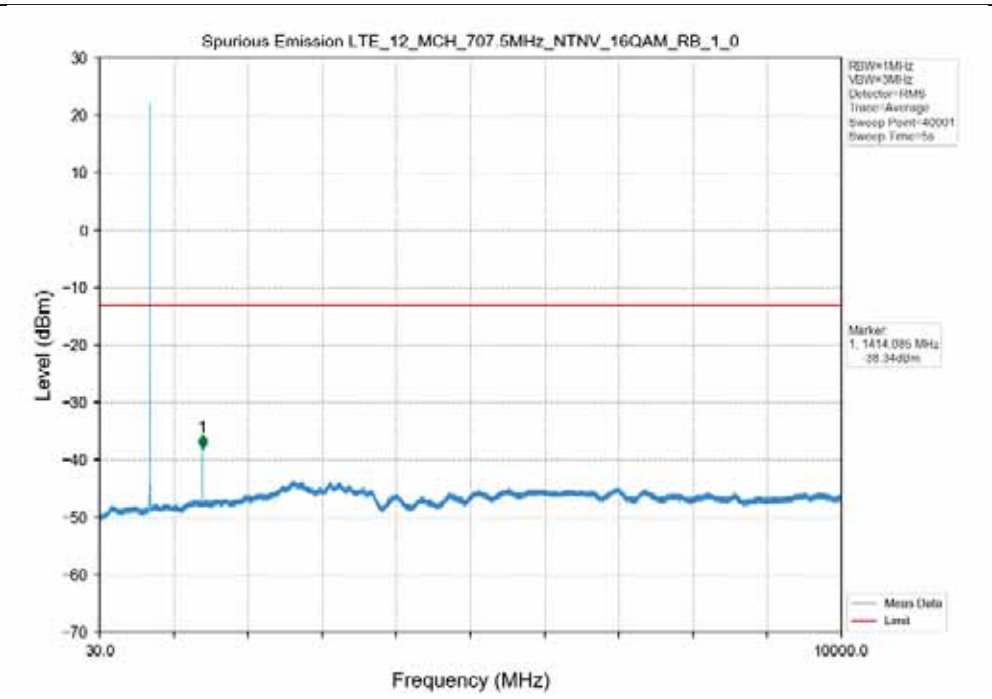
6.1 Test Graph

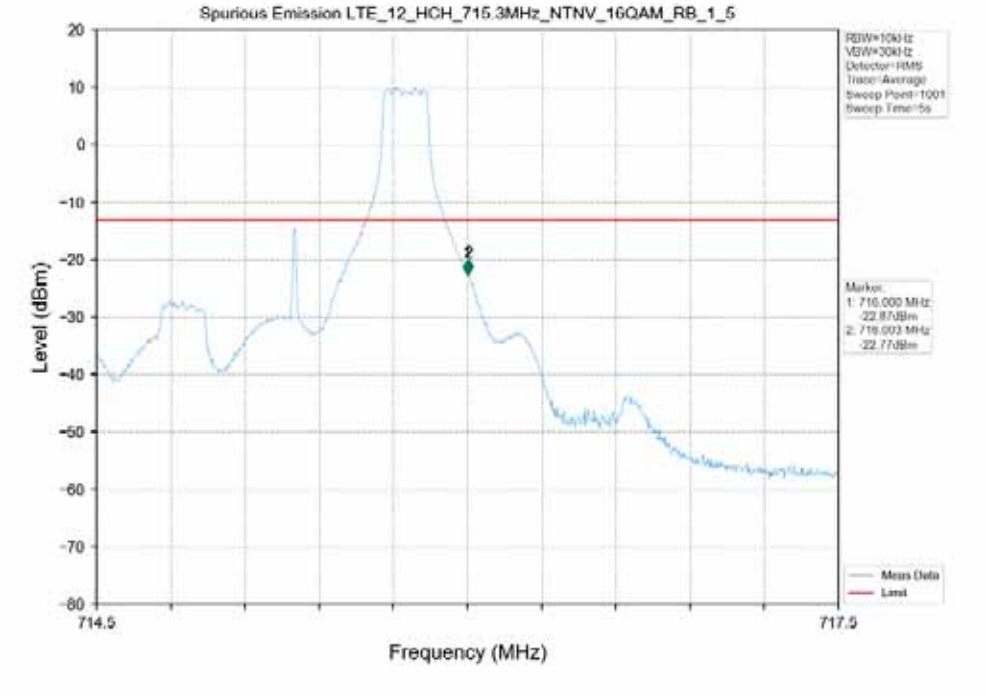


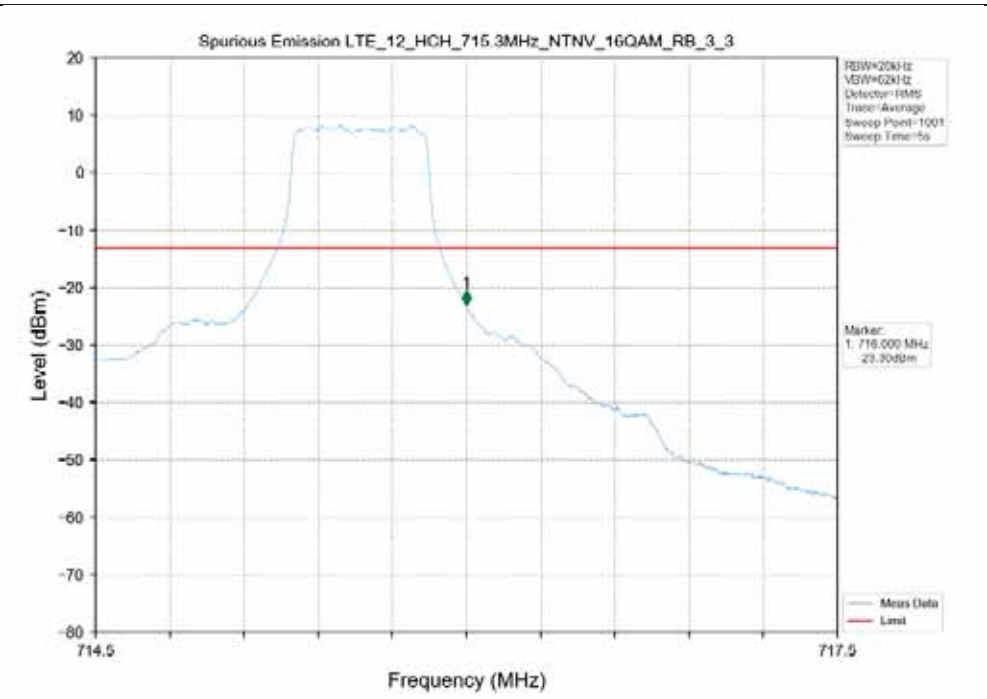


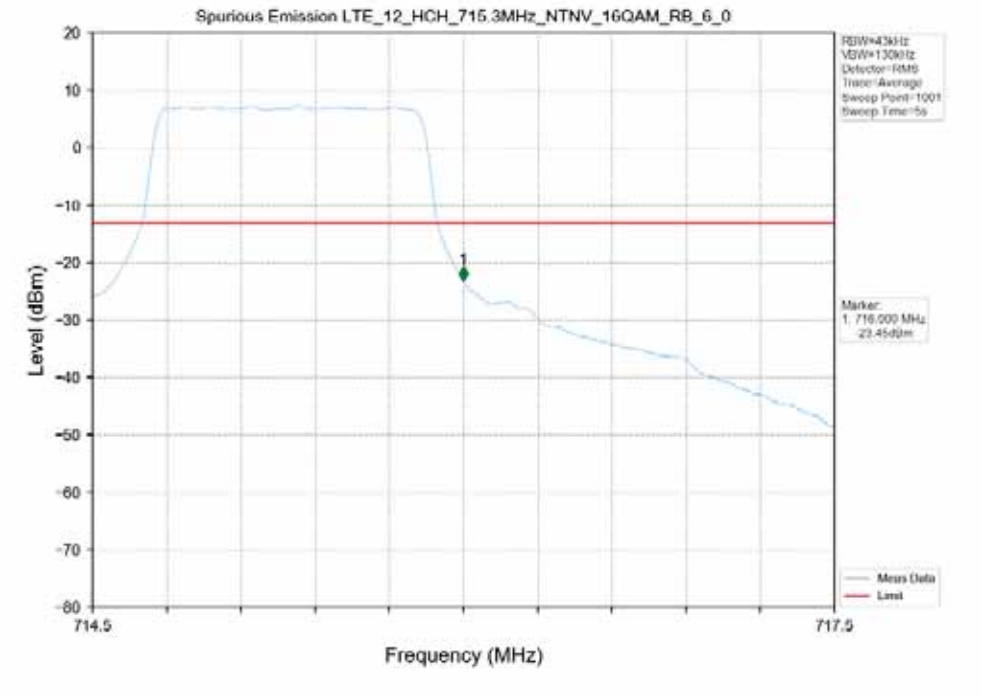

Spurious Emission LTE_12_LCH_699.7MHz_NTNV_16QAM_RB_6_0
RBW=43kHz
VBW=130kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1: 698.997 MHz
-21.86dBm
2: 699.000 MHz
-22.13dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
697.5
700.5

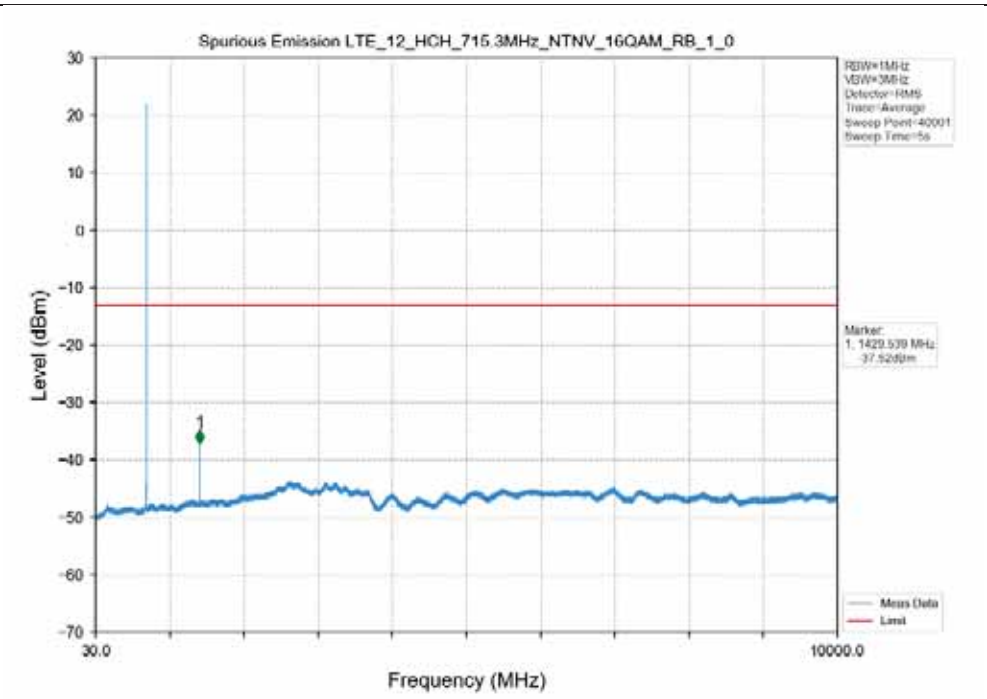

Spurious Emission LTE_12_LCH_699.7MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1: 1398.932 MHz
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

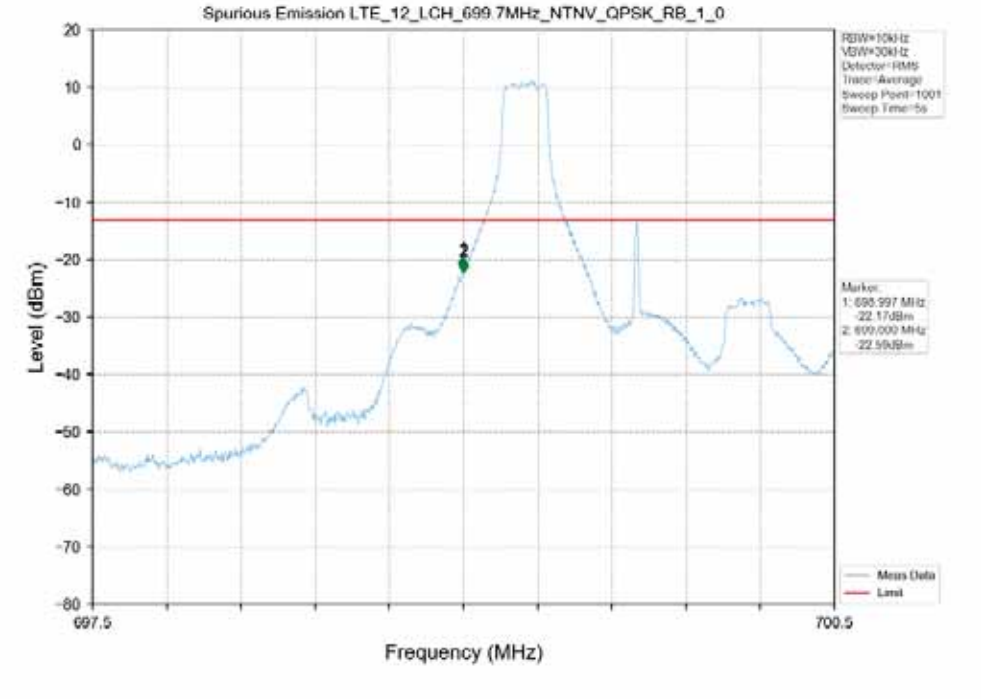

Spurious Emission LTE_12_MCH_707.5MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker
1: 1414.086 MHz
-38.34dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

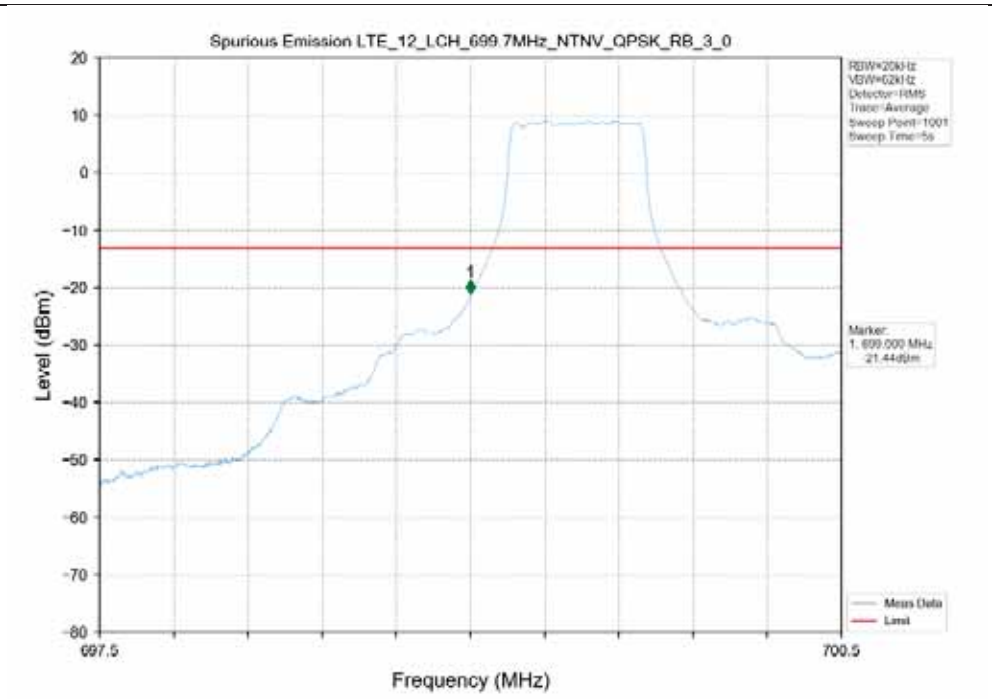

Spurious Emission LTE_12_HCH_715.3MHz_NTNV_16QAM_RB_1_5
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker
1: 710.000 MHz
-22.87dBm
2: 716.003 MHz
-22.77dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
714.5
717.5

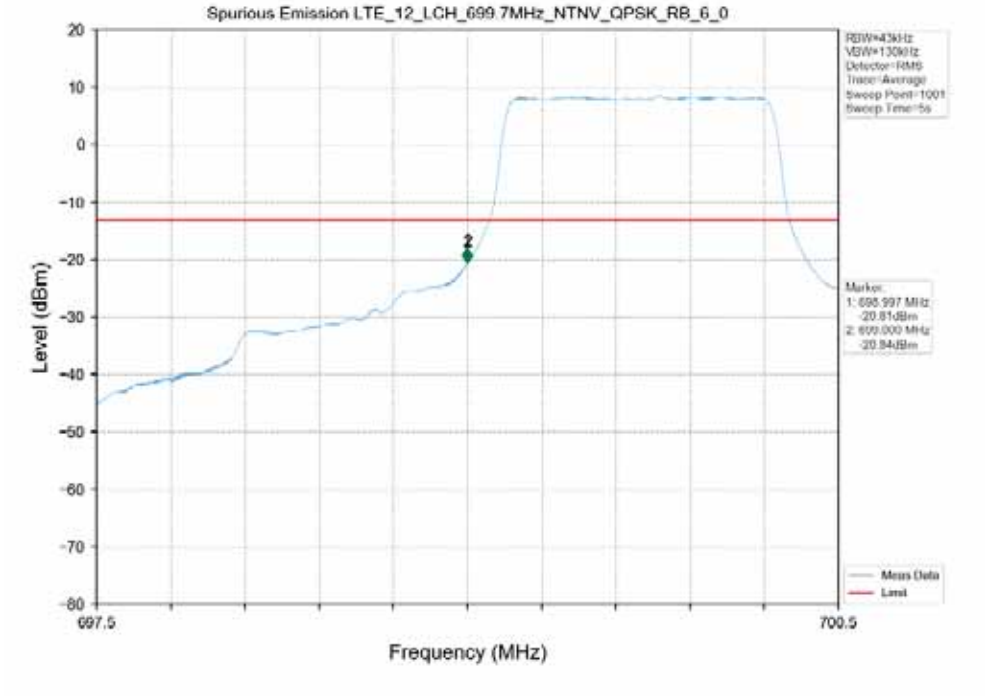

Spurious Emission LTE_12_HCH_715.3MHz_NTNV_16QAM_RB_3_3
RBW=20kHz
VBW=62kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1. 716.000 MHz
23.30dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
714.5
717.5

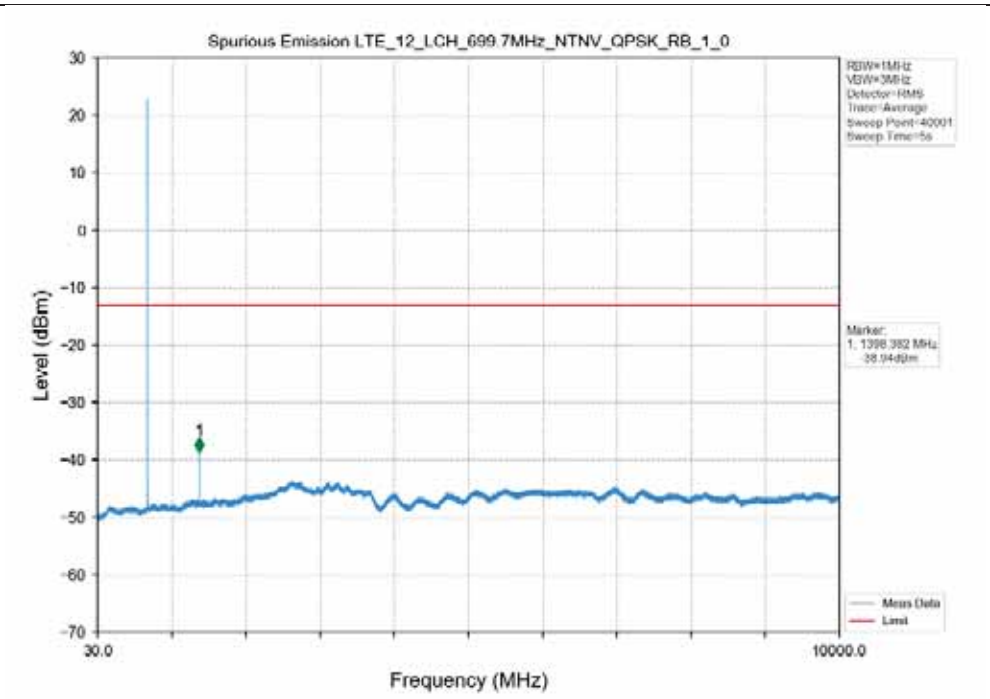

Spurious Emission LTE_12_HCH_715.3MHz_NTNV_16QAM_RB_6_0
RBW=43kHz
VBW=130kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1. 716.000 MHz
23.45dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
714.5
717.5

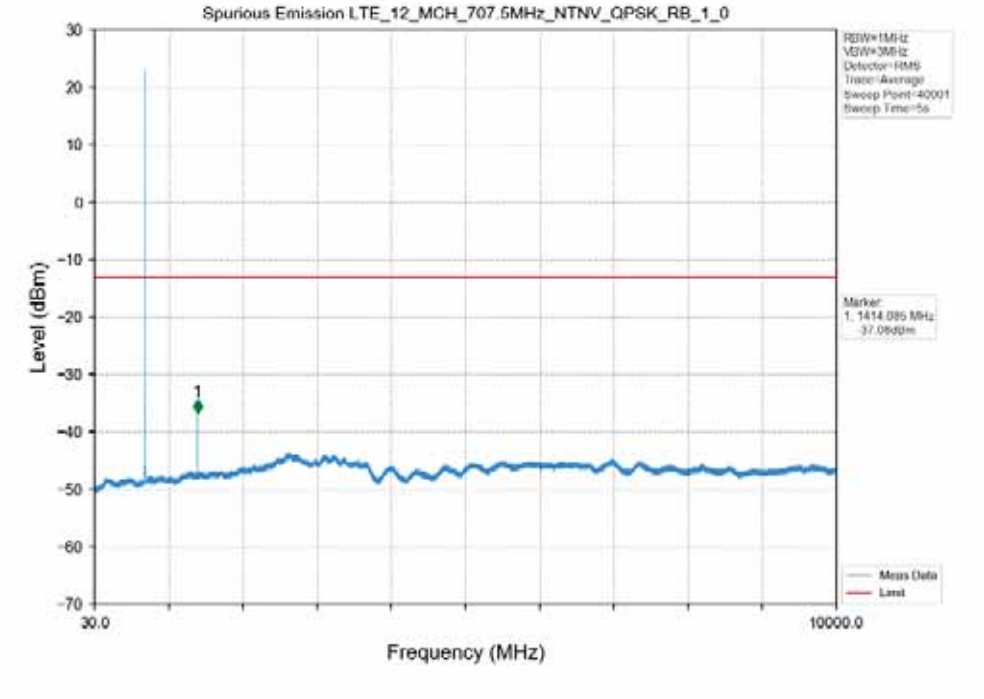

Spurious Emission LTE_12_HCH_715.3MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1: 1429.539 MHz
37.52dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

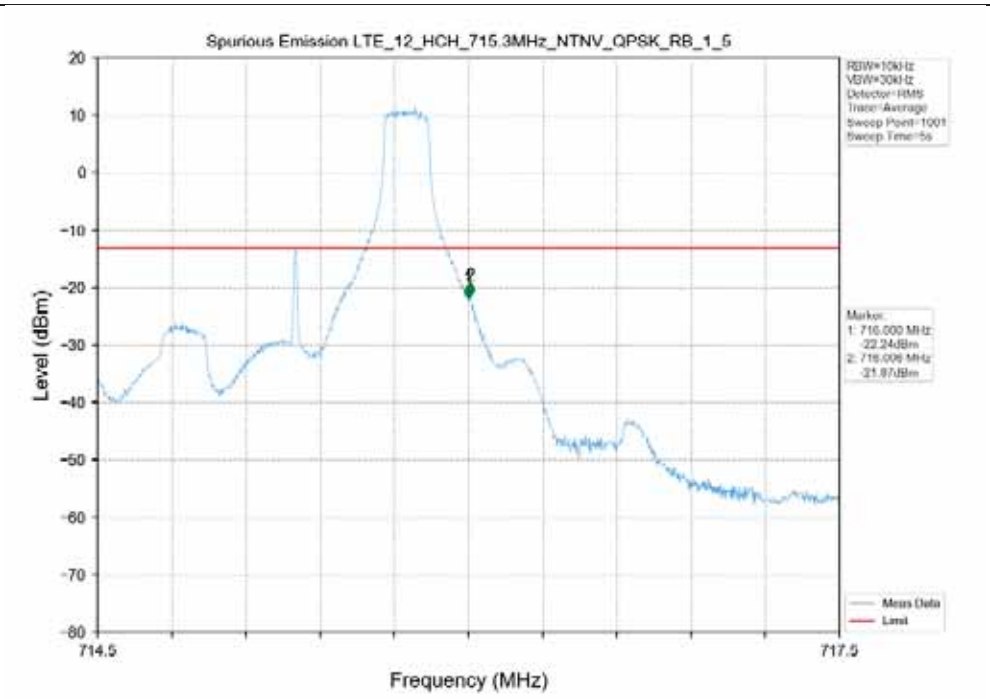

Spurious Emission LTE_12_LCH_699.7MHz_NTNV_QPSK_RB_1_0
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1: 699.997 MHz
-22.17dBm
2: 699.000 MHz
-22.59dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
697.5
700.5

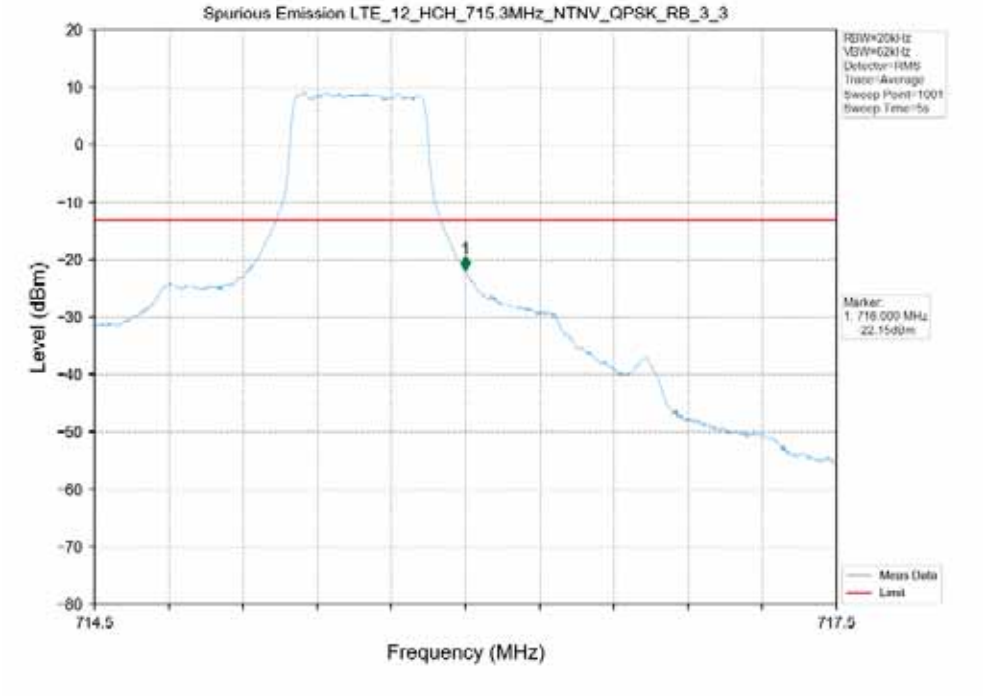

Spurious Emission LTE_12_LCH_699.7MHz_NTNV_QPSK_RB_3_0
RBW=20kHz
VBW=62kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1: 699.000 MHz
21.44dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
697.5
700.5

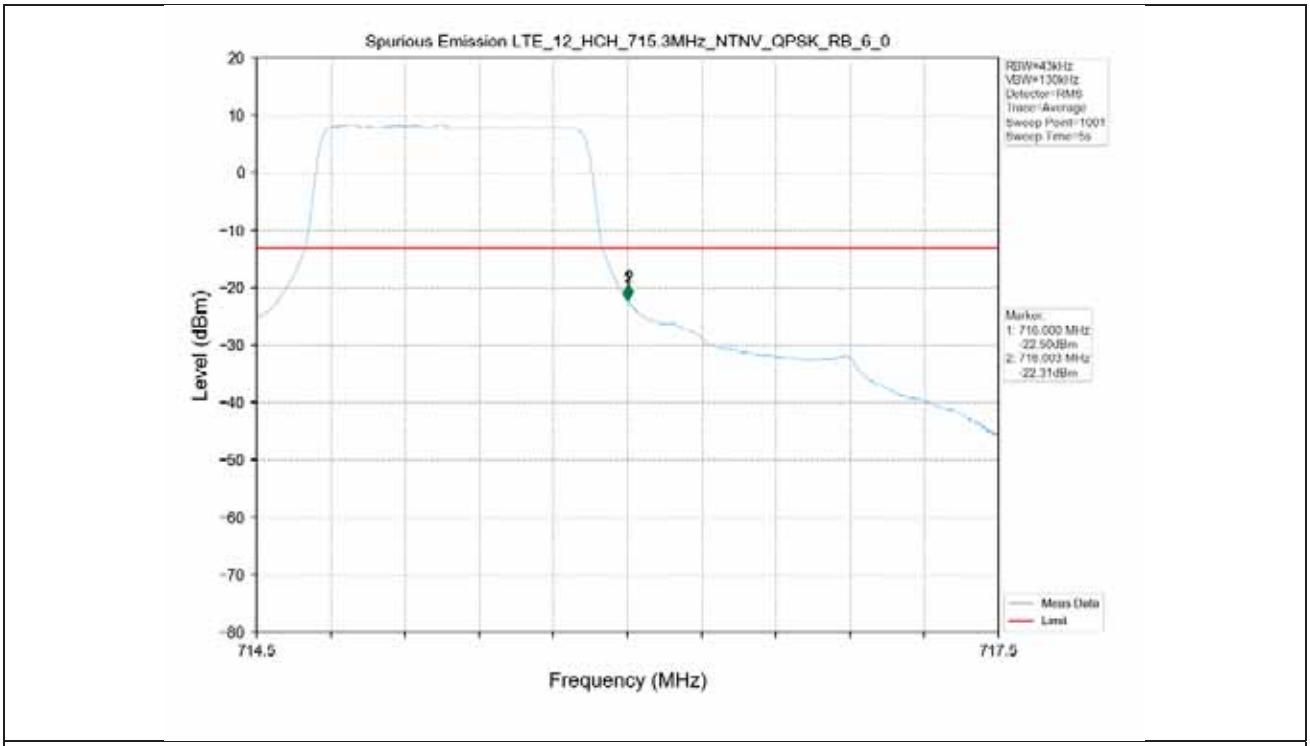

Spurious Emission LTE_12_LCH_699.7MHz_NTNV_QPSK_RB_6_0
RBW=43kHz
VBW=130kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1: 698.997 MHz
20.81dBm
2: 699.000 MHz
20.94dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
697.5
700.5

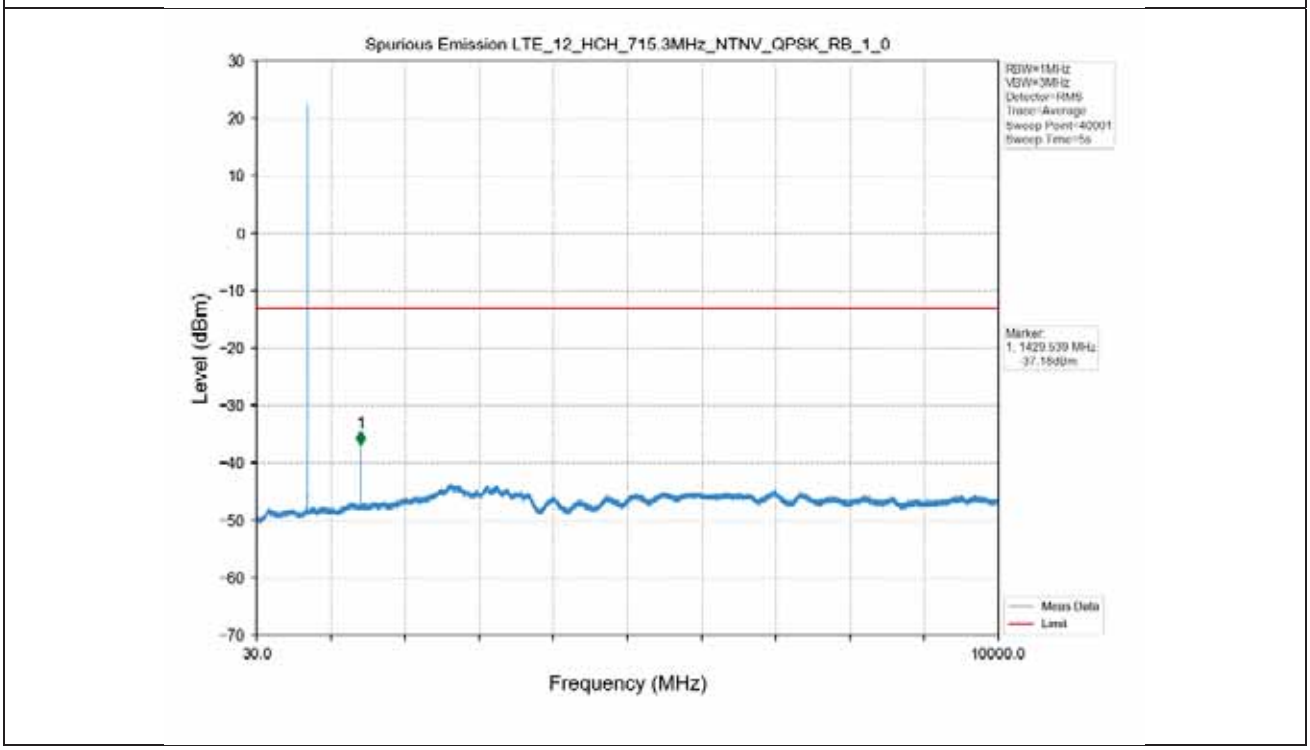

Spurious Emission LTE_12_LCH_699.7MHz_NTNV_QPSK_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1398.382 MHz
38.94dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0


Spurious Emission LTE_12_MCH_707.5MHz_NTNV_QPSK_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1414.085 MHz
37.08dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

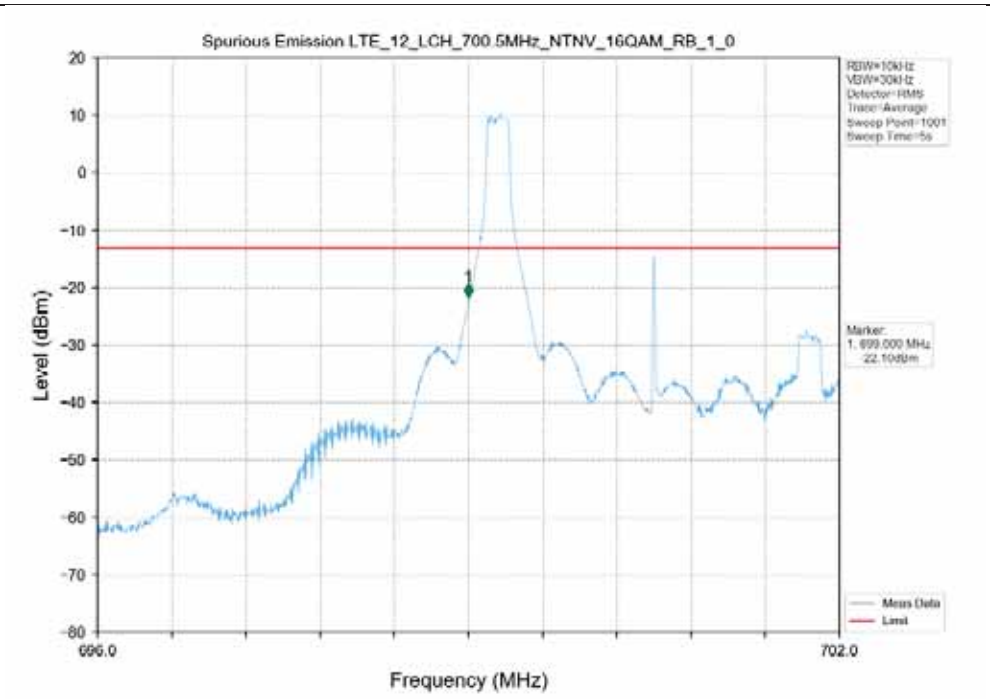

Spurious Emission LTE_12_HCH_715.3MHz_NTNV_QPSK_RB_1_5
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker
1: 716.000 MHz
22.24dBm
2: 716.006 MHz
21.87dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
714.5
717.5

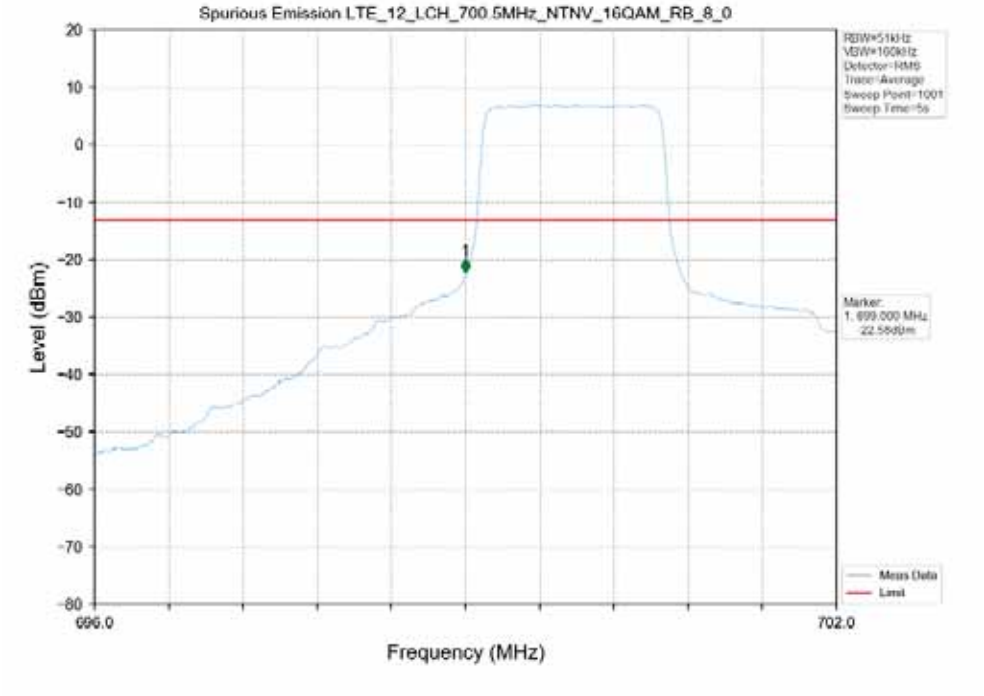

Spurious Emission LTE_12_HCH_715.3MHz_NTNV_QPSK_RB_3_3
RBW=20kHz
VBW=62kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker
1: 716.000 MHz
22.15dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
714.5
717.5

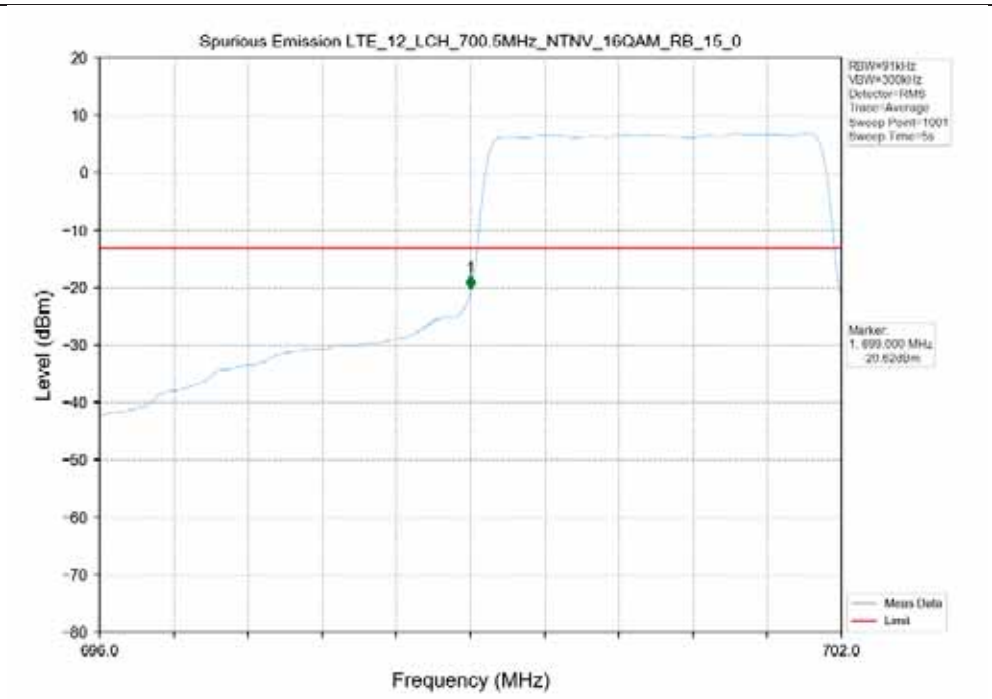


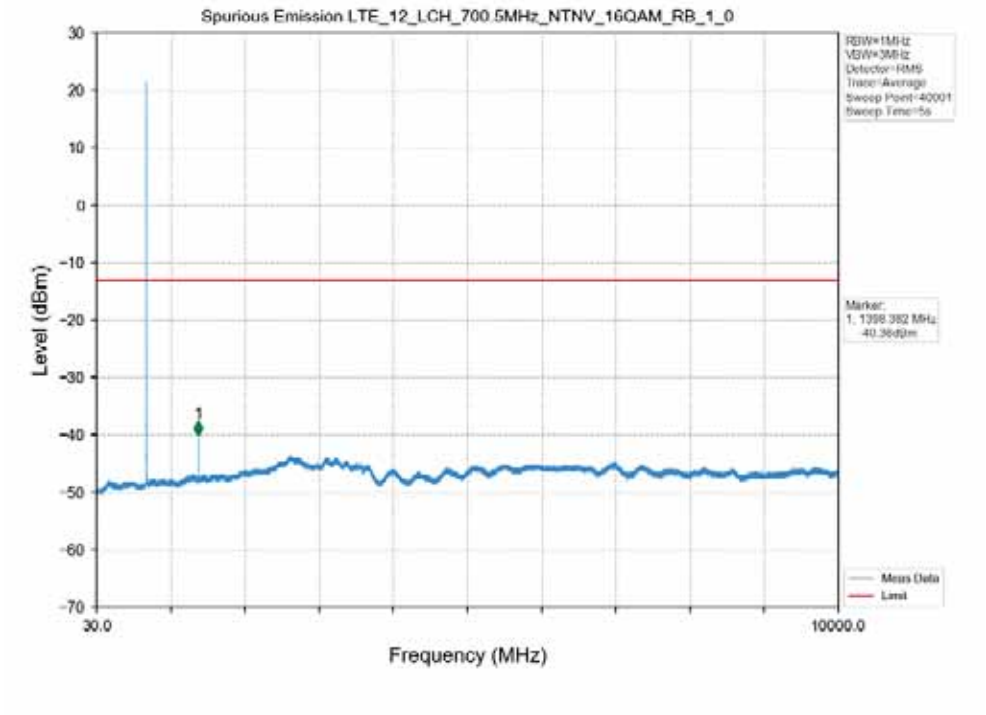


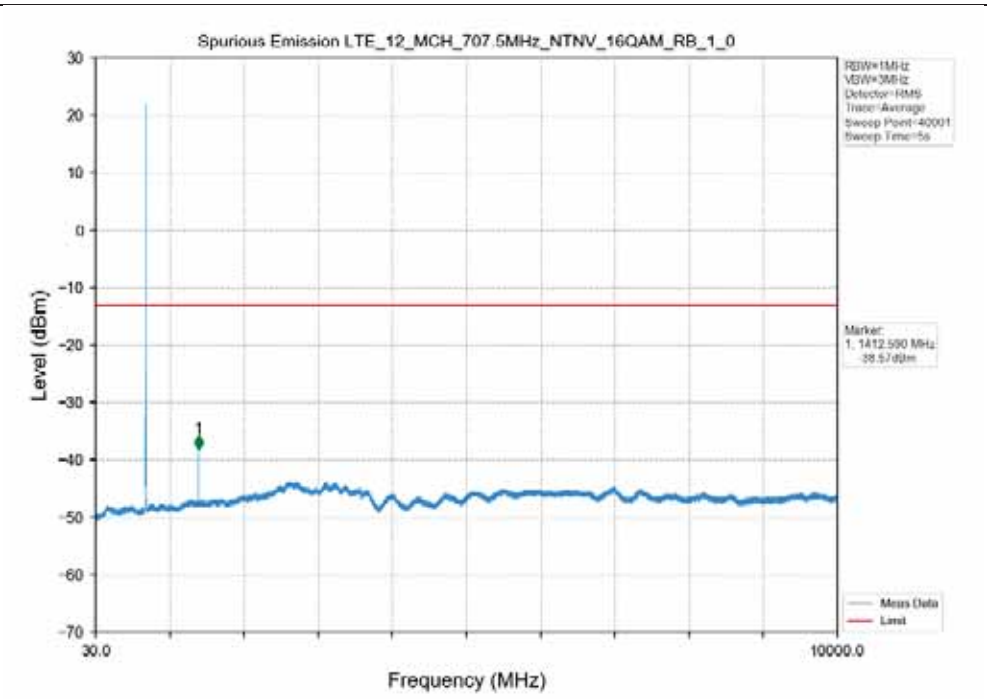
6.1 Test Graph

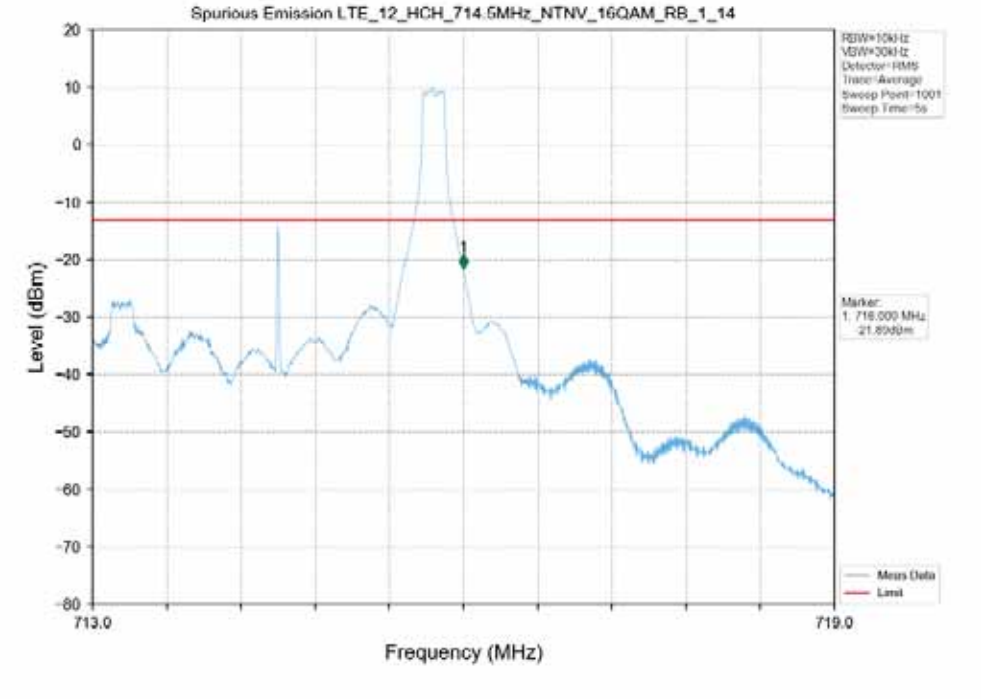

Spurious Emission LTE_12_LCH_700.5MHz_NTNV_16QAM_RB_1_0
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
22.10dBm
Meas Data
Limit
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
696.0
702.0
Frequency (MHz)

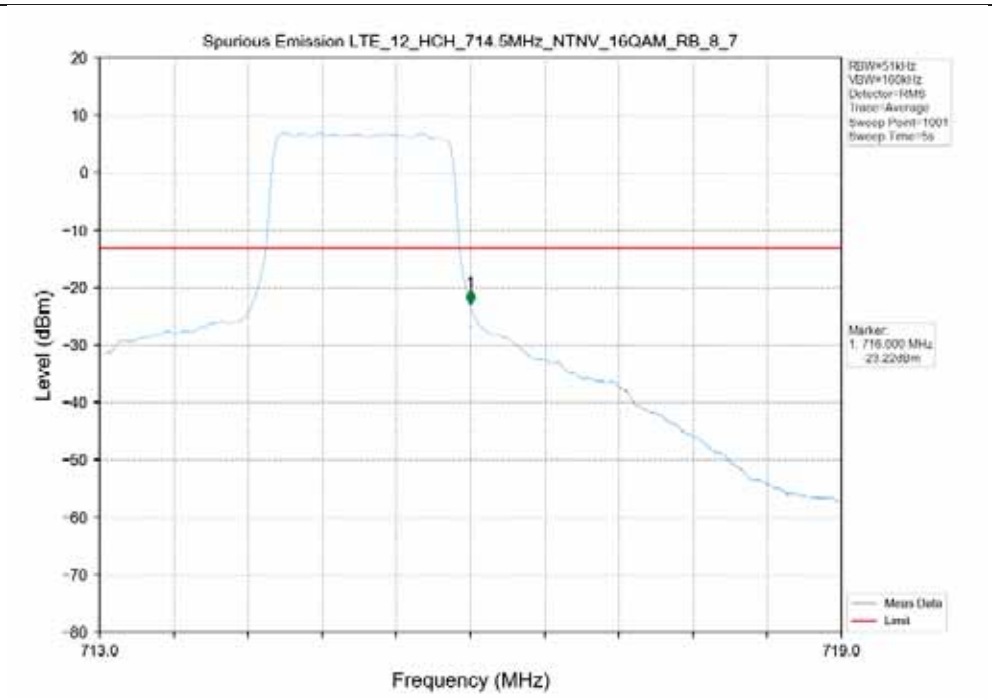

Spurious Emission LTE_12_LCH_700.5MHz_NTNV_16QAM_RB_8_0
RBW=51kHz
VBW=160kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
22.56dBm
Meas Data
Limit
Level (dBm)
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
696.0
702.0
Frequency (MHz)

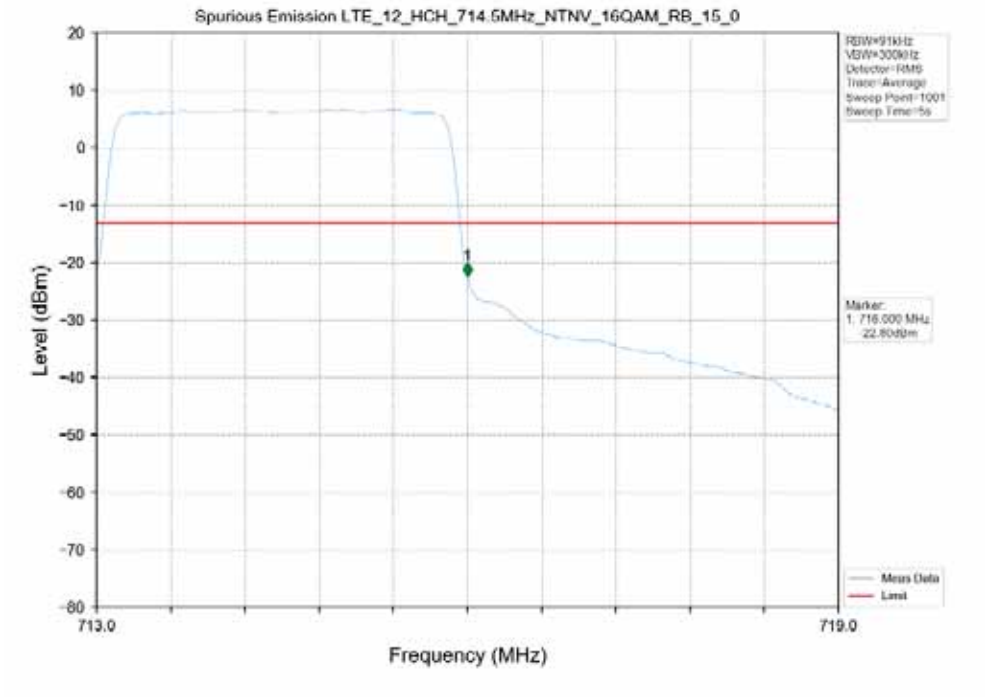

Spurious Emission LTE_12_LCH_700.5MHz_NTNV_16QAM_RB_15_0
RBW=91kHz
VBW=300kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
20.62dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
696.0
702.0

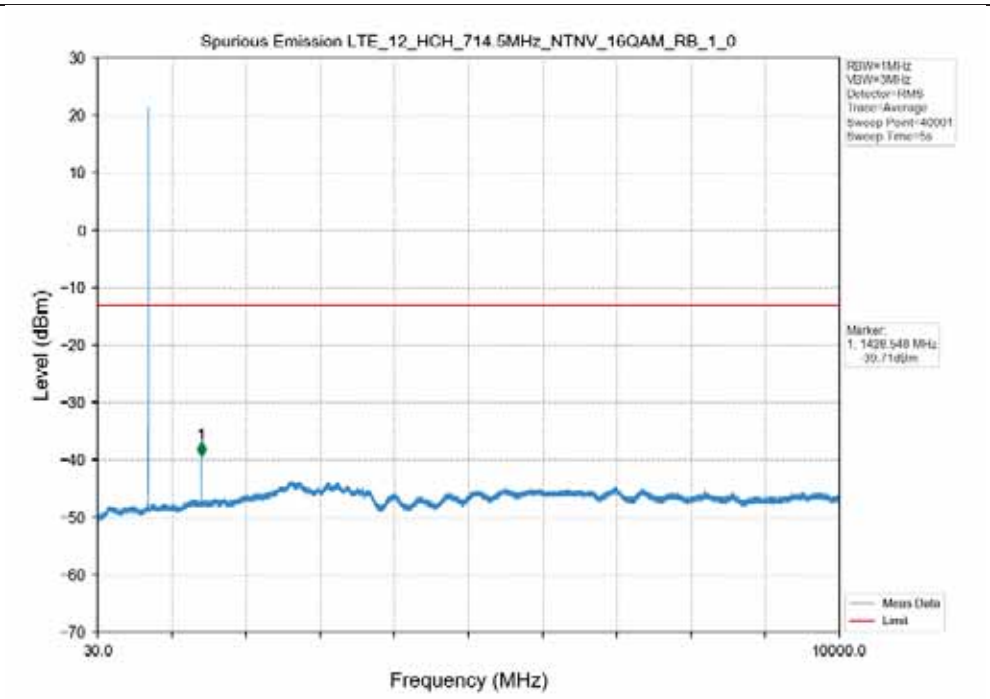

Spurious Emission LTE_12_LCH_700.5MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1398.382 MHz
40.36dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

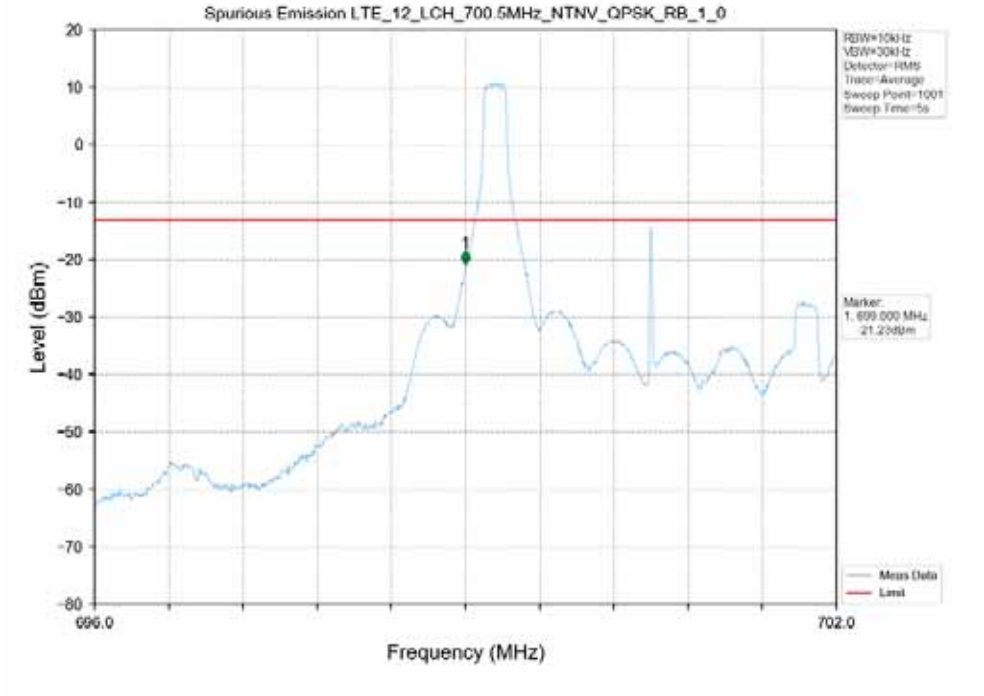

Spurious Emission LTE_12_MCH_707.5MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1412.580 MHz
-38.57dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

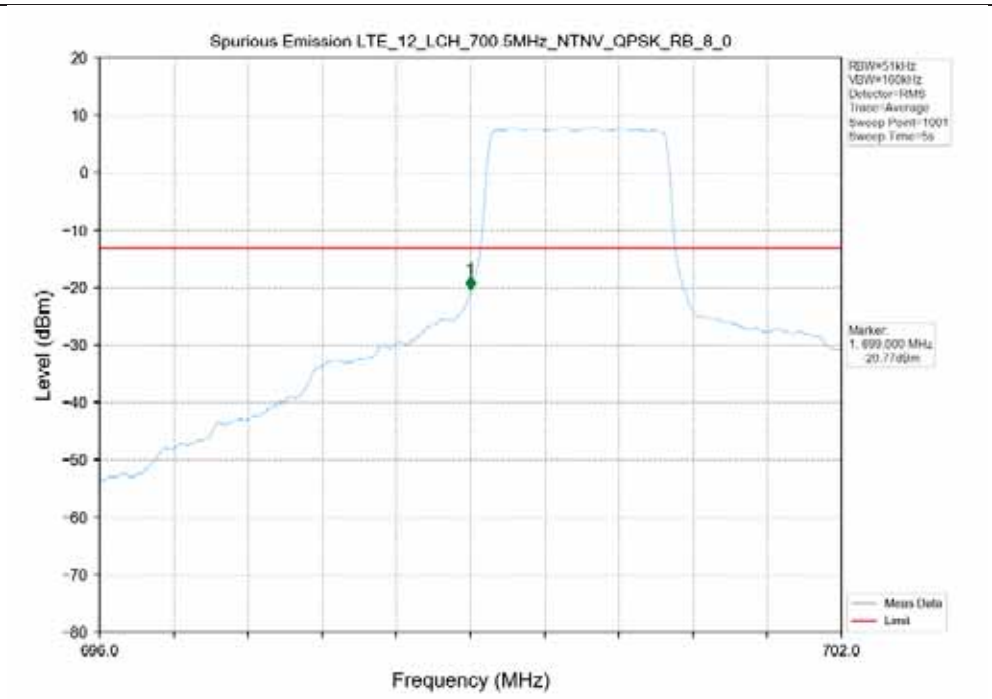

Spurious Emission LTE_12_HCH_714.5MHz_NTNV_16QAM_RB_1_14
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 716.000 MHz
21.69dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
713.0
719.0

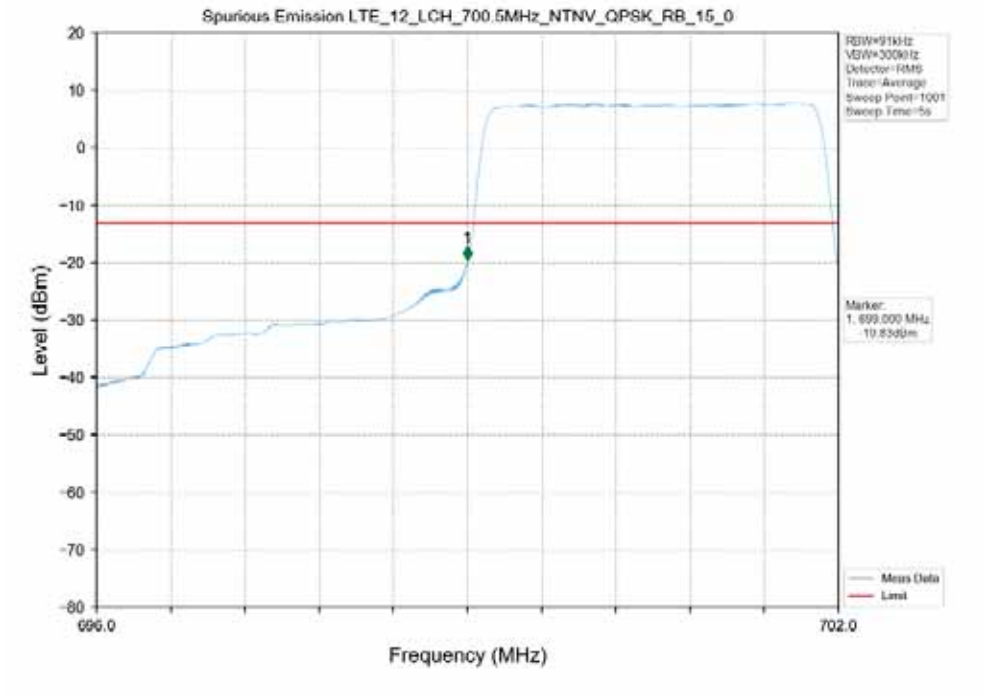

Spurious Emission LTE_12_HCH_714.5MHz_NTNV_16QAM_RB_8_7
RBW=51kHz
VBW=100kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1. 716.000 MHz
23.22dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
713.0
719.0

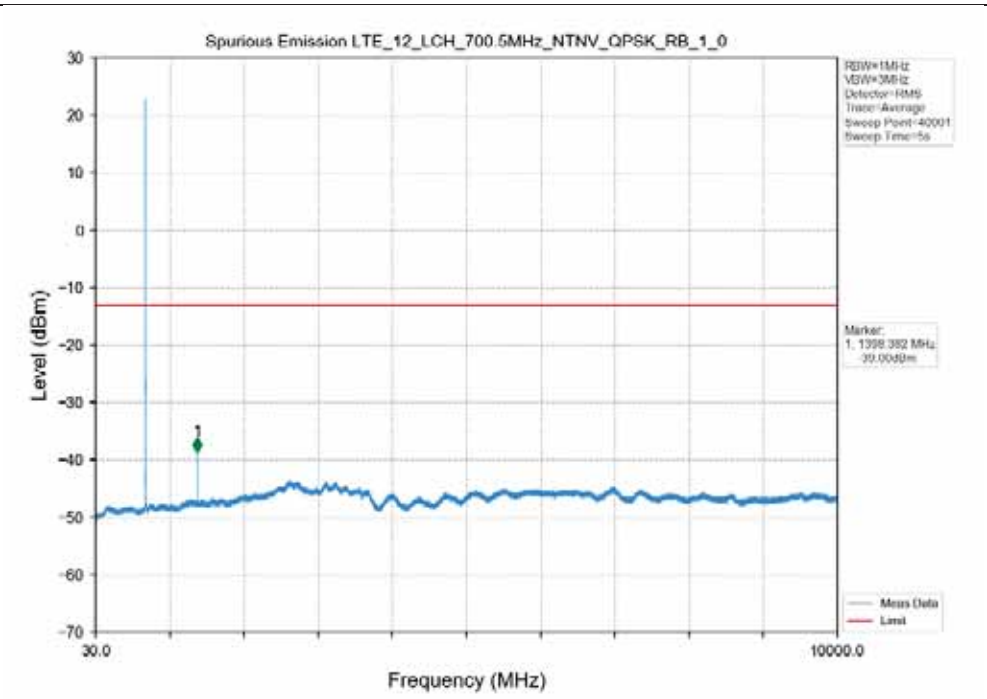

Spurious Emission LTE_12_HCH_714.5MHz_NTNV_16QAM_RB_15_0
RBW=91kHz
VBW=300kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1. 716.000 MHz
22.80dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
713.0
719.0

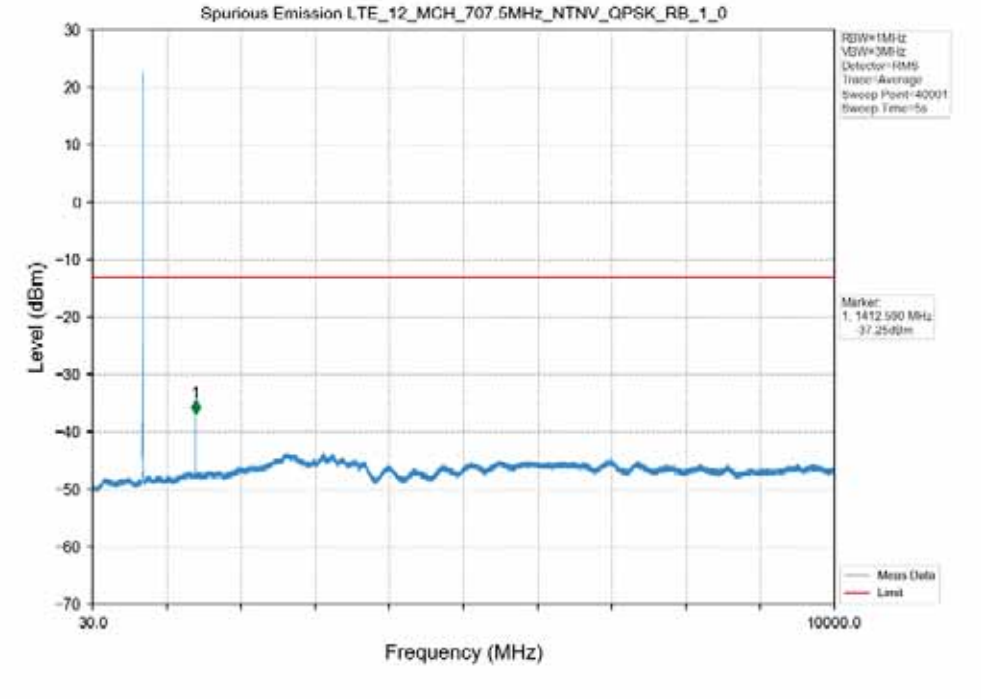

Spurious Emission LTE_12_HCH_714.5MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1428.548 MHz
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

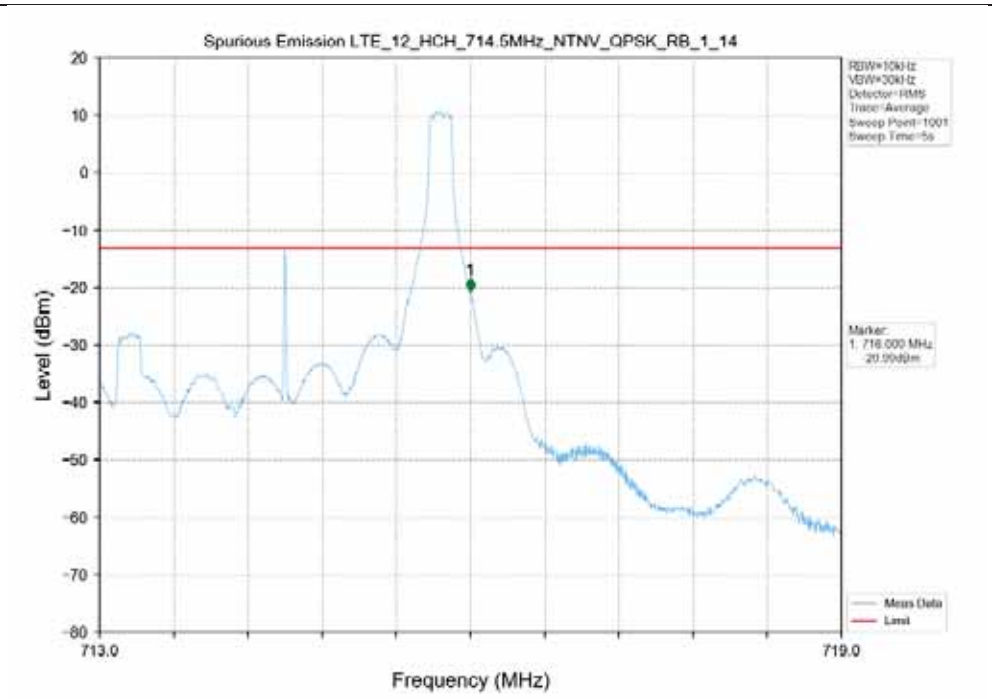

Spurious Emission LTE_12_LCH_700.5MHz_NTNV_QPSK_RB_1_0
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
Meas Data
Limit
Level (dBm)
Frequency (MHz)
696.0
702.0

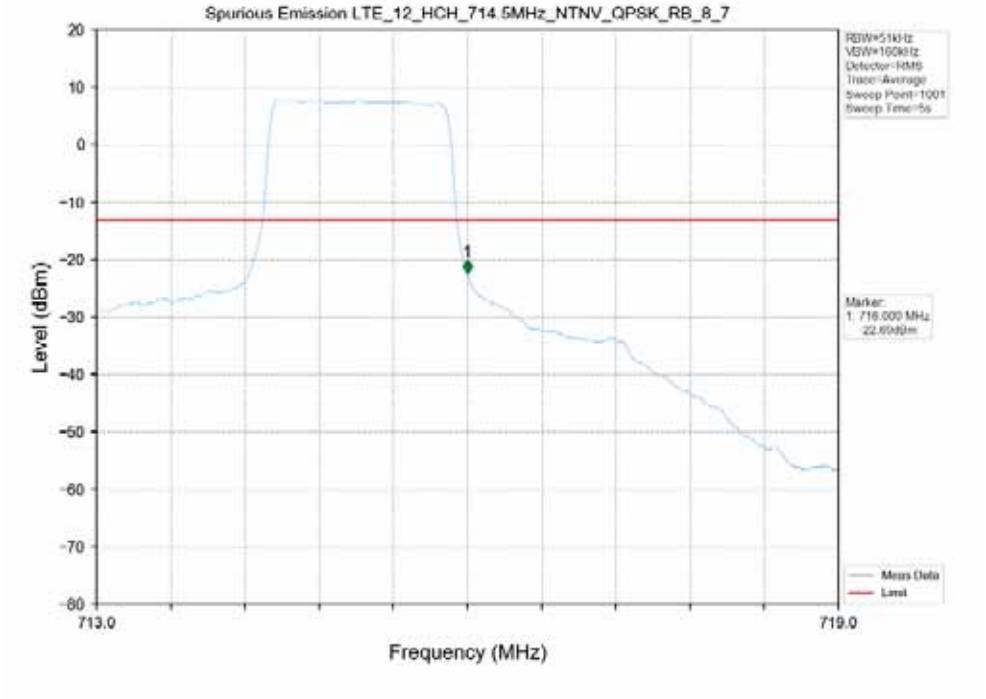

Spurious Emission LTE_12_LCH_700.5MHz_NTNV_QPSK_RB_8_0
RBW=51kHz
VBW=100kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
20.77dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
696.0
702.0

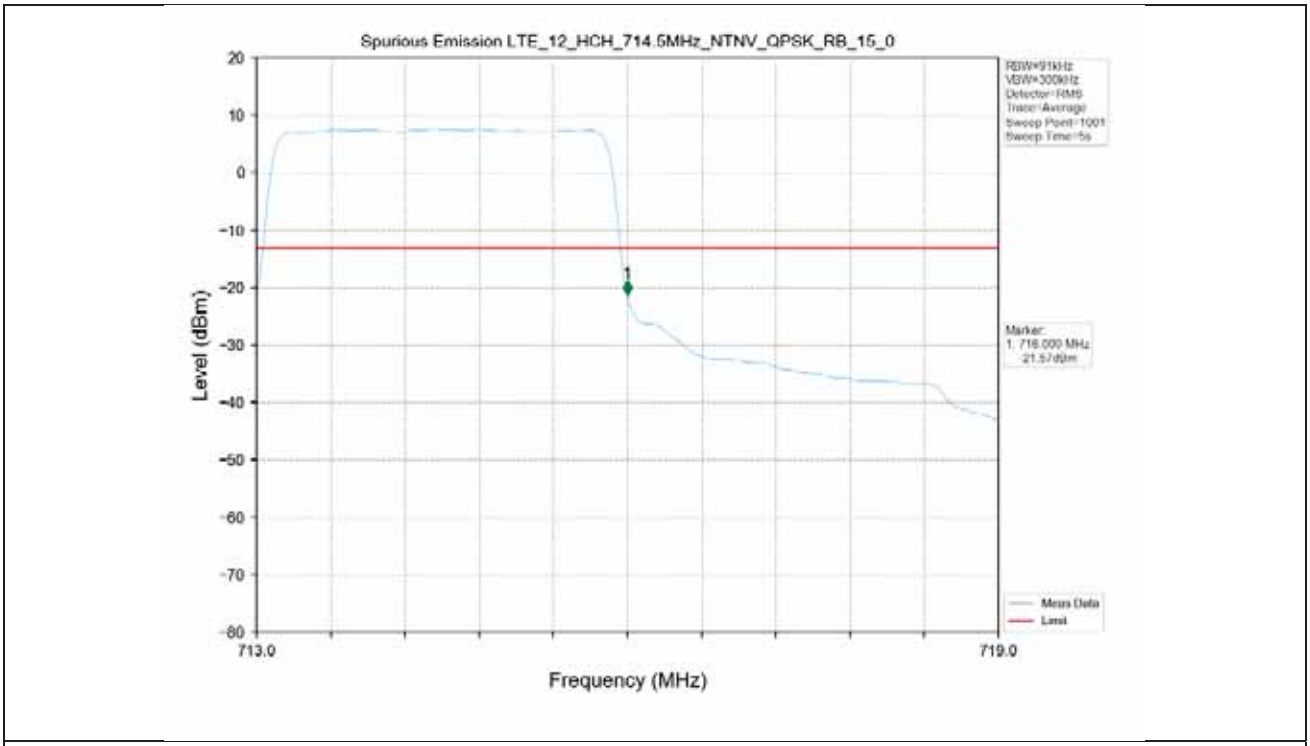

Spurious Emission LTE_12_LCH_700.5MHz_NTNV_QPSK_RB_15_0
RBW=91kHz
VBW=300kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
19.83dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
696.0
702.0

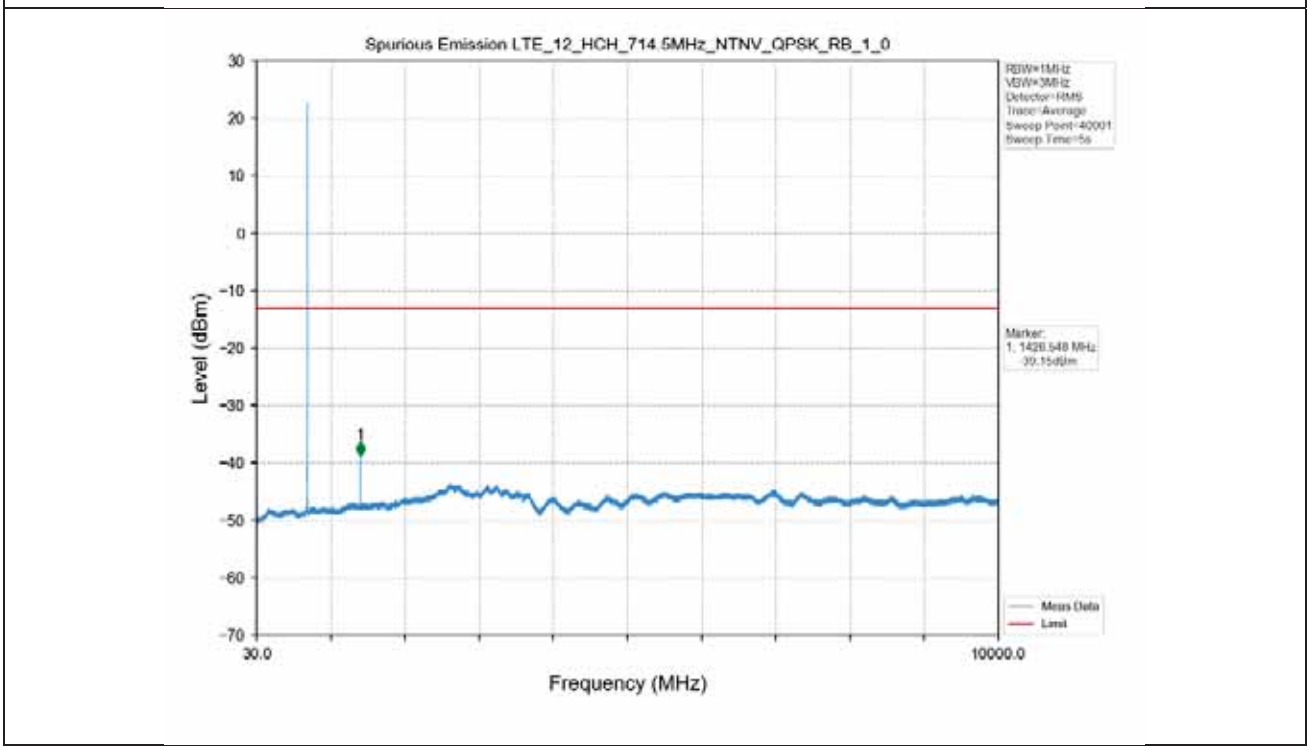

Spurious Emission LTE_12_LCH_700.5MHz_NTNV_QPSK_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1398.382 MHz
39.00dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0


Spurious Emission LTE_12_MCH_707.5MHz_NTNV_QPSK_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1412.590 MHz
37.25dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

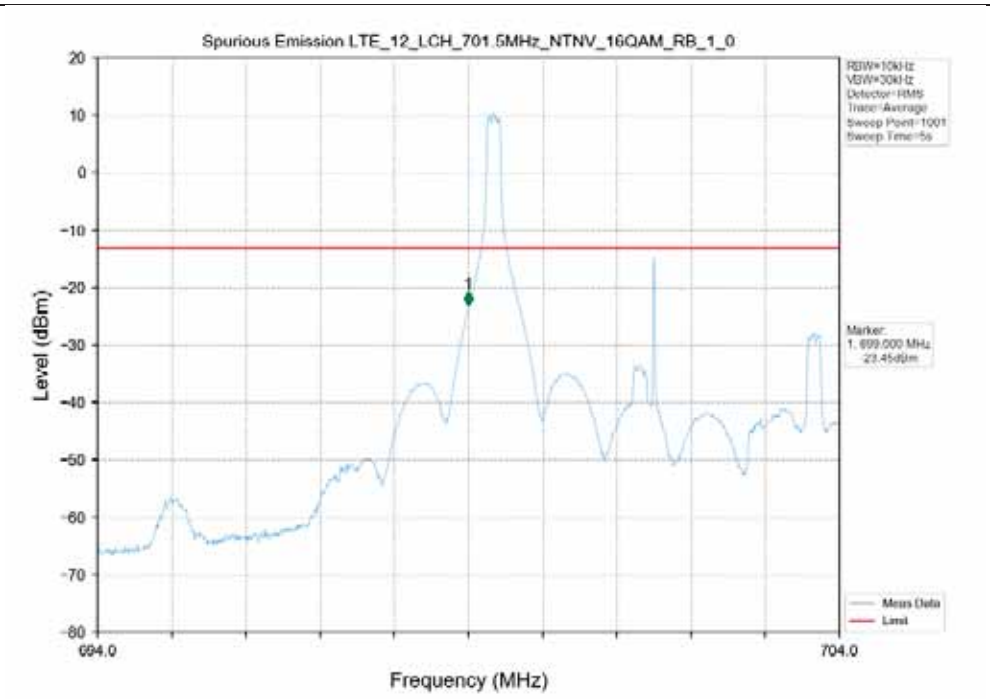

Spurious Emission LTE_12_HCH_714.5MHz_NTNV_QPSK_RB_1_14
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1: 716.000 MHz
20.09dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
713.0
719.0

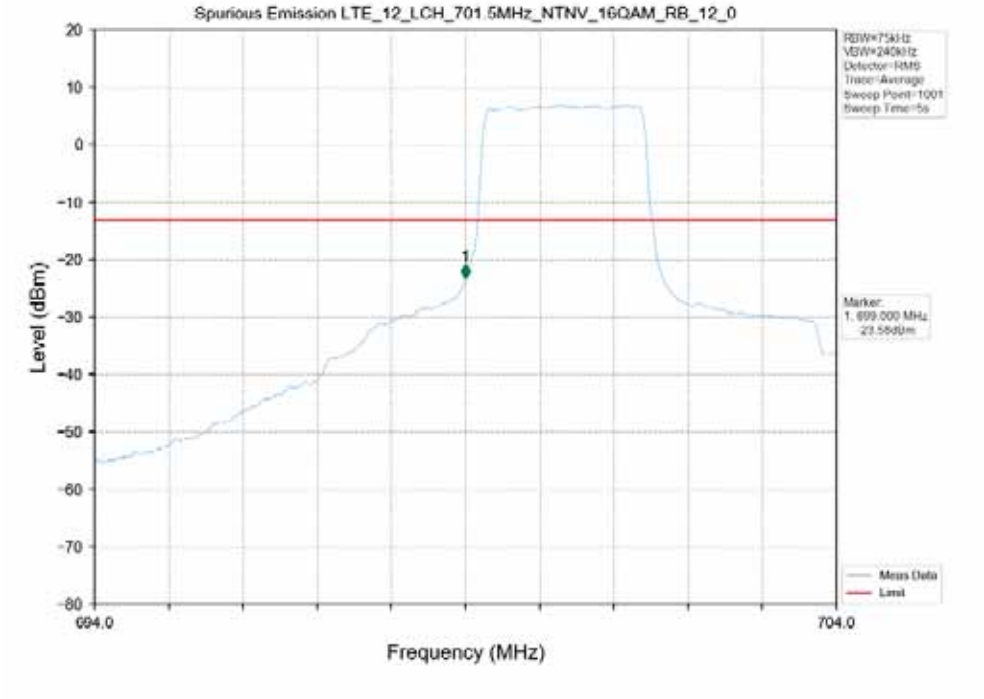

Spurious Emission LTE_12_HCH_714.5MHz_NTNV_QPSK_RB_8_7
RBW=51kHz
VBW=160kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1: 716.000 MHz
22.65dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
713.0
719.0

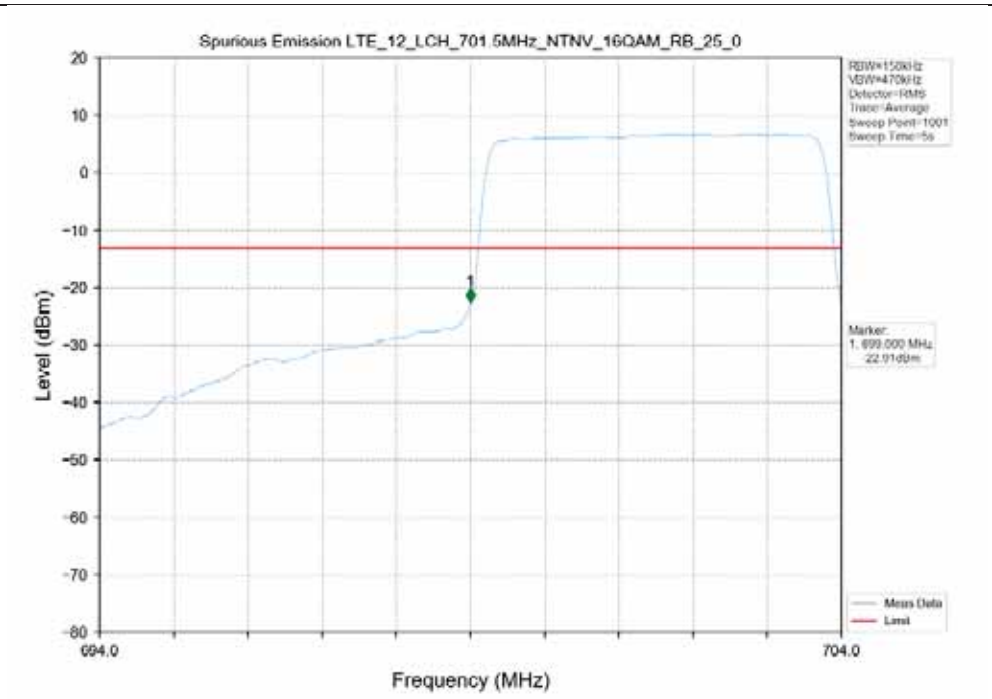


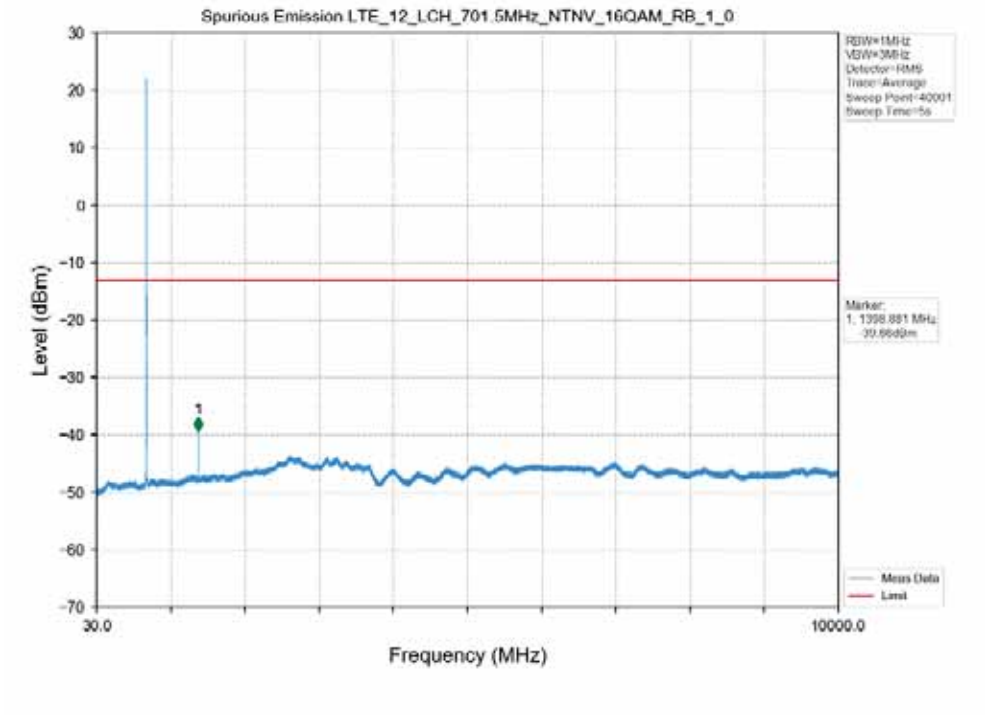


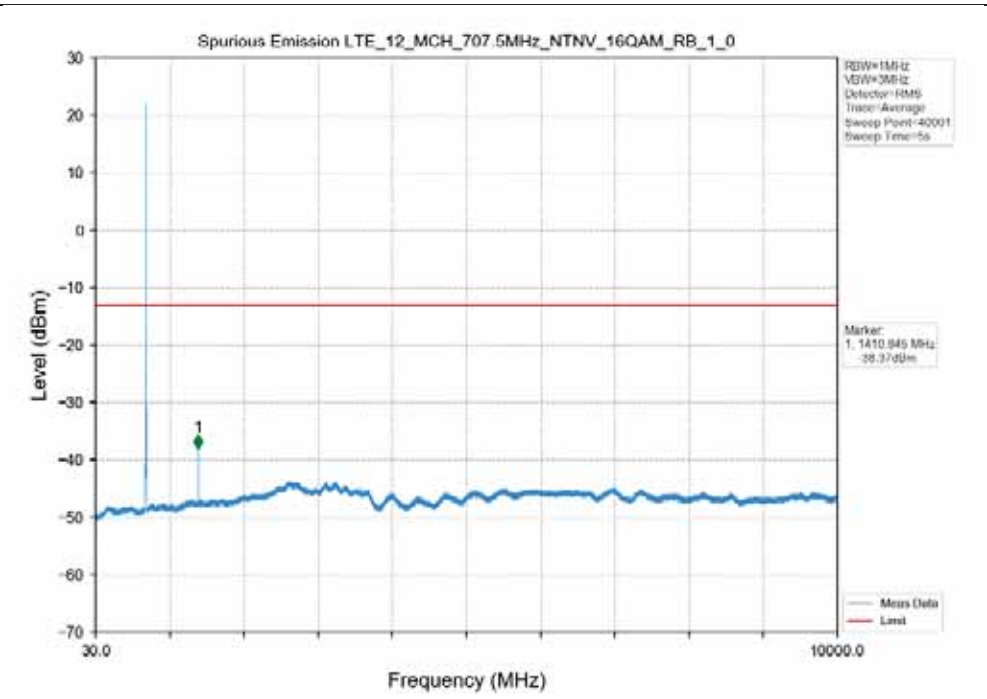
6.1 Test Graph

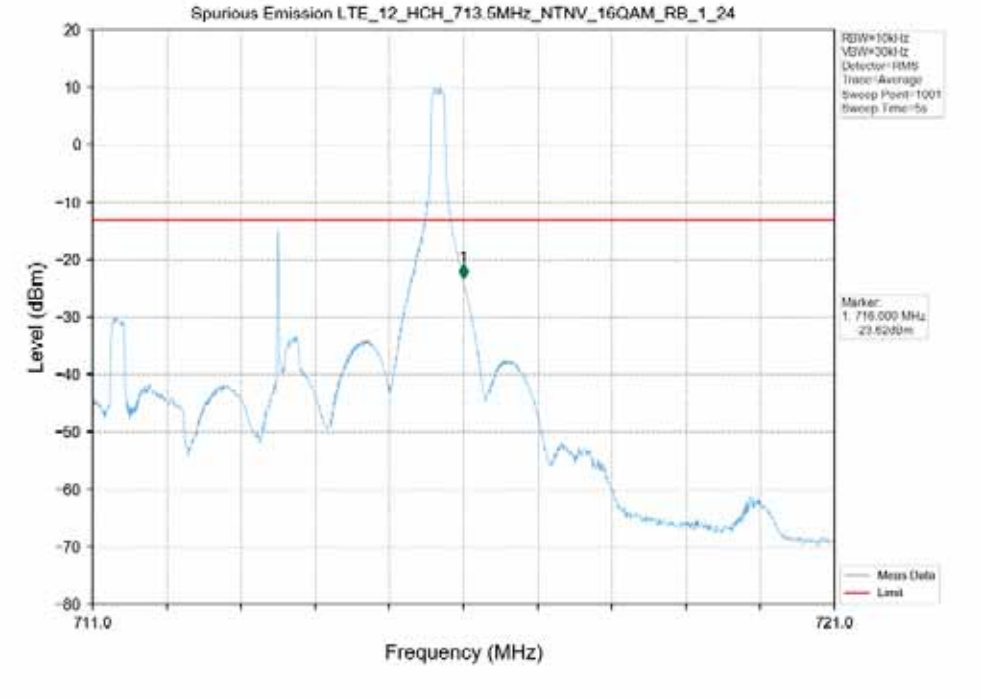

Spurious Emission LTE_12_LCH_701.5MHz_NTNV_16QAM_RB_1_0
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
23.45dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
694.0
704.0

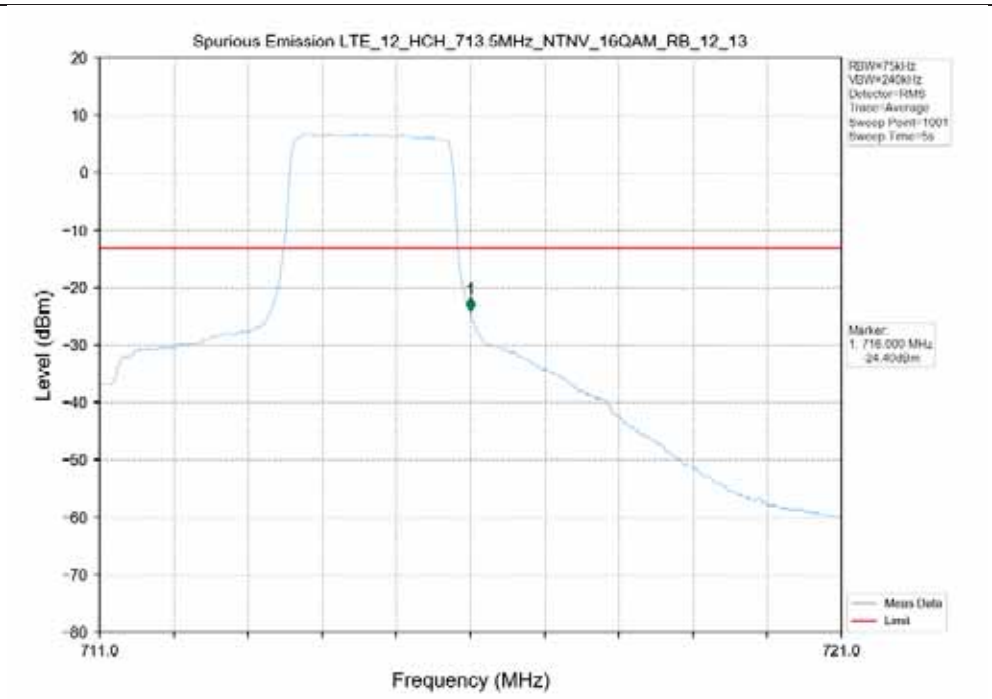

Spurious Emission LTE_12_LCH_701.5MHz_NTNV_16QAM_RB_12_0
RBW=75kHz
VBW=240kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
23.56dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
694.0
704.0

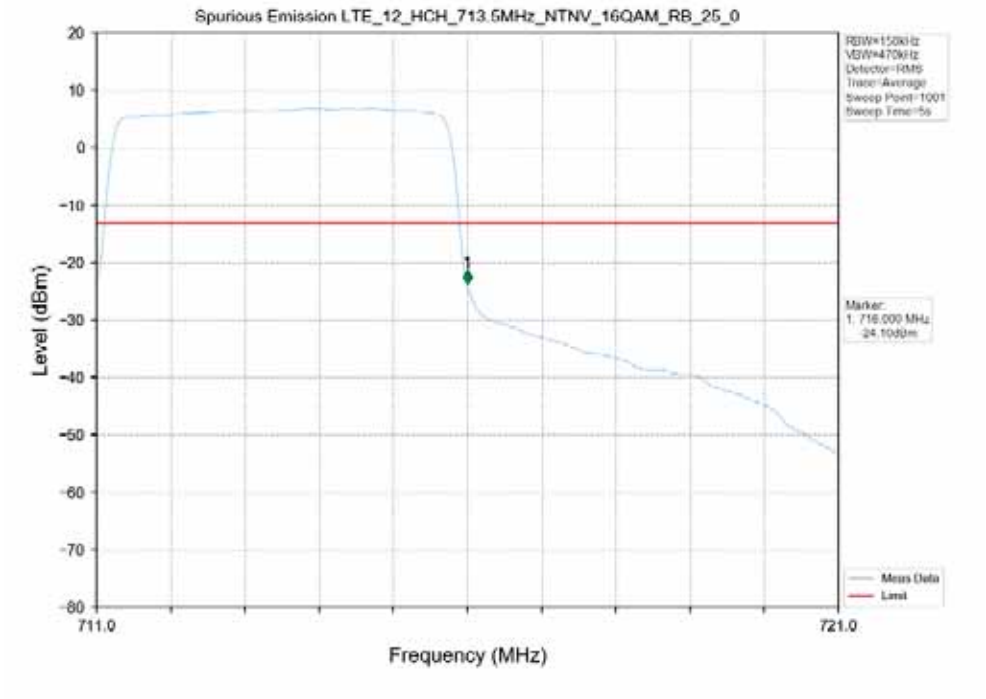

Spurious Emission LTE_12_LCH_701.5MHz_NTNV_16QAM_RB_25_0
RBW=150kHz
VBW=470kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
22.01dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
694.0
704.0

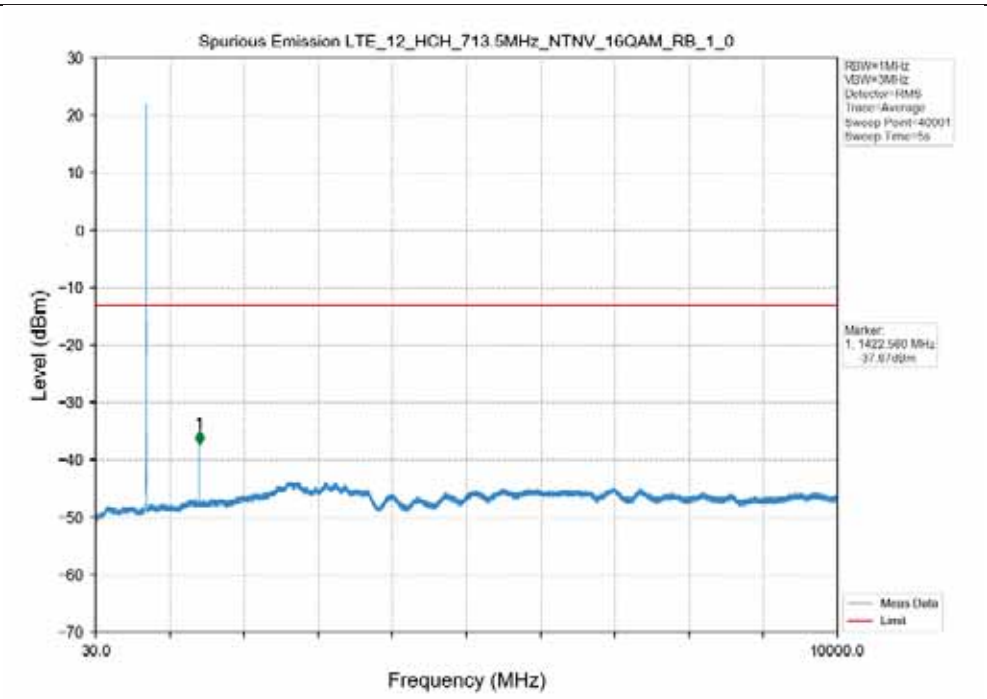

Spurious Emission LTE_12_LCH_701.5MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1398.881 MHz
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

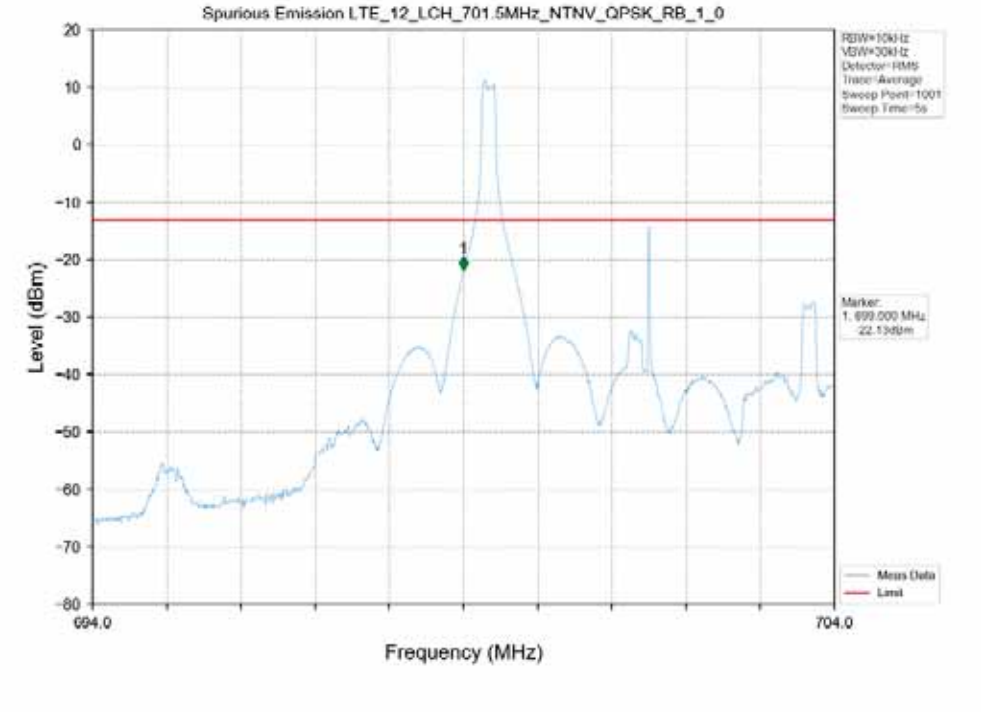

Spurious Emission LTE_12_MCH_707.5MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1410.945 MHz
-38.37dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

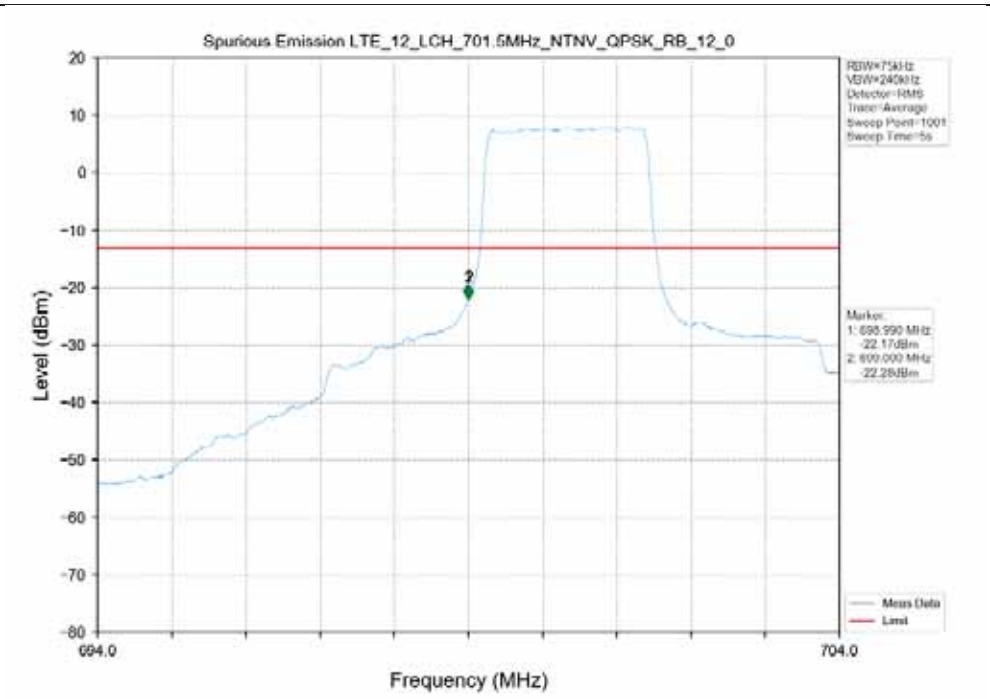

Spurious Emission LTE_12_HCH_713.5MHz_NTNV_16QAM_RB_1_24
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 716.000 MHz
23.62dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
711.0
721.0

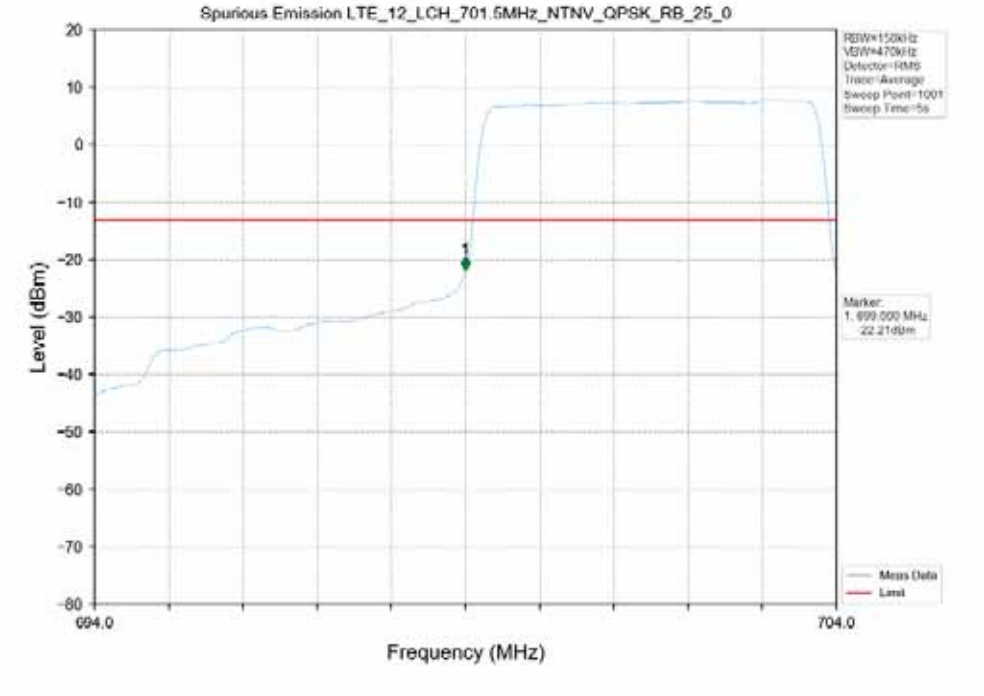

Spurious Emission LTE_12_HCH_713.5MHz_NTNV_16QAM_RB_12_13
RBW=75kHz
VBW=240kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1: 716.000 MHz
24.40dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
711.0
721.0

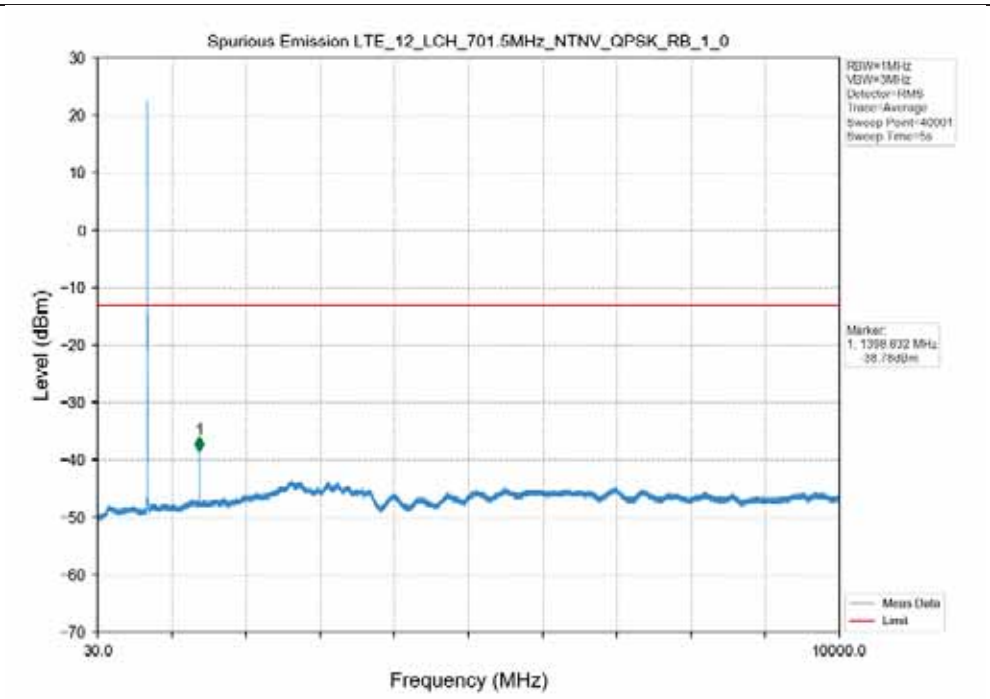

Spurious Emission LTE_12_HCH_713.5MHz_NTNV_16QAM_RB_25_0
RBW=150kHz
VBW=470kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1: 716.000 MHz
24.10dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
711.0
721.0

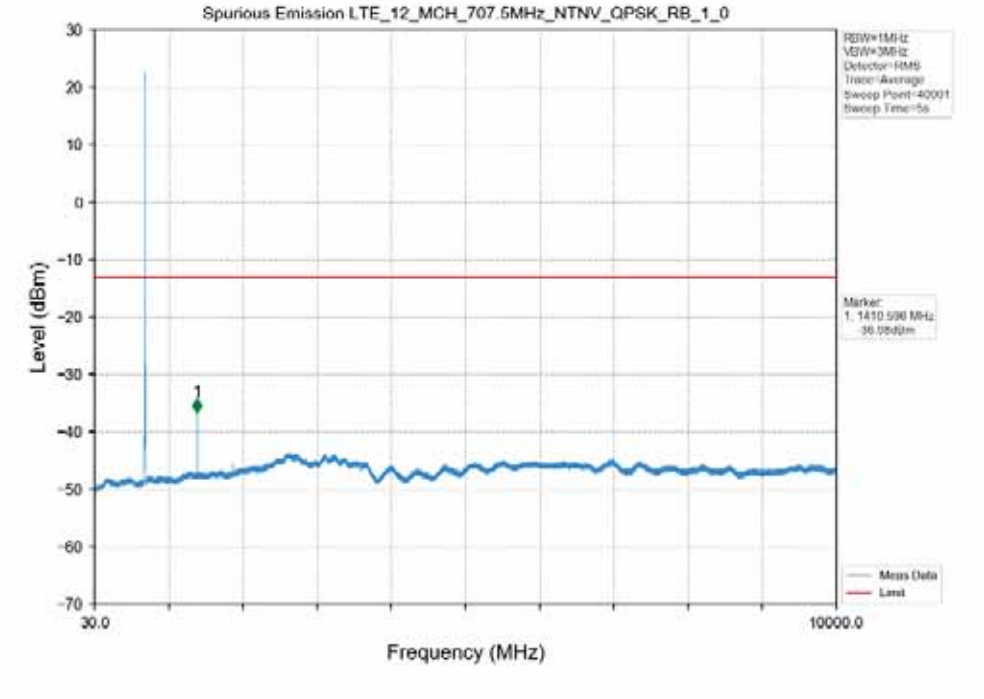

Spurious Emission LTE_12_HCH_713.5MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1422.560 MHz
37.67dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

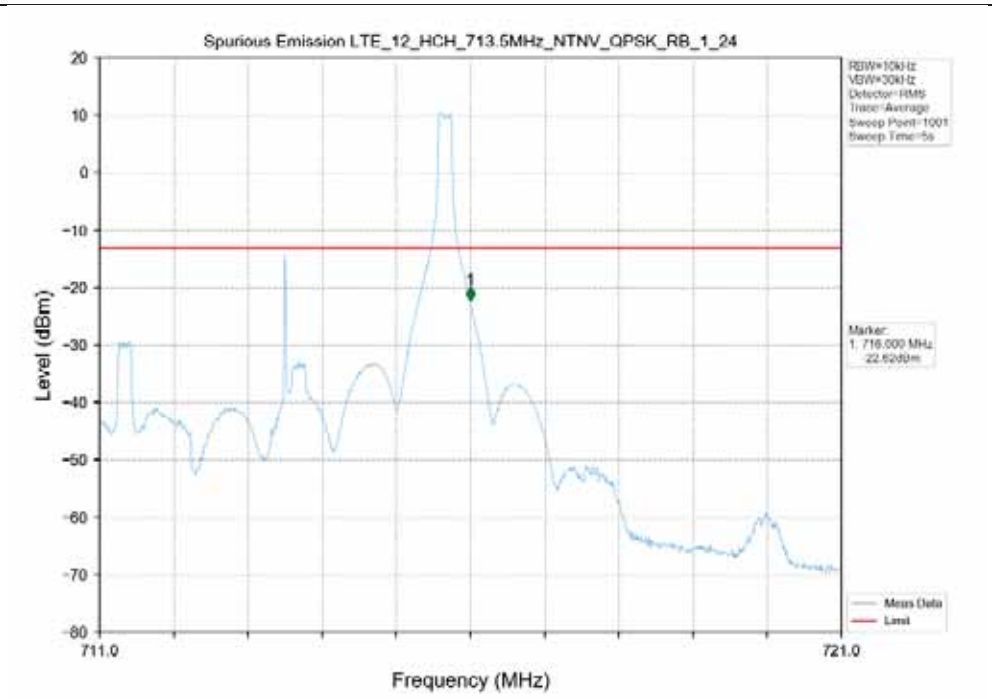

Spurious Emission LTE_12_LCH_701.5MHz_NTNV_QPSK_RB_1_0
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
22.13dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
694.0
704.0

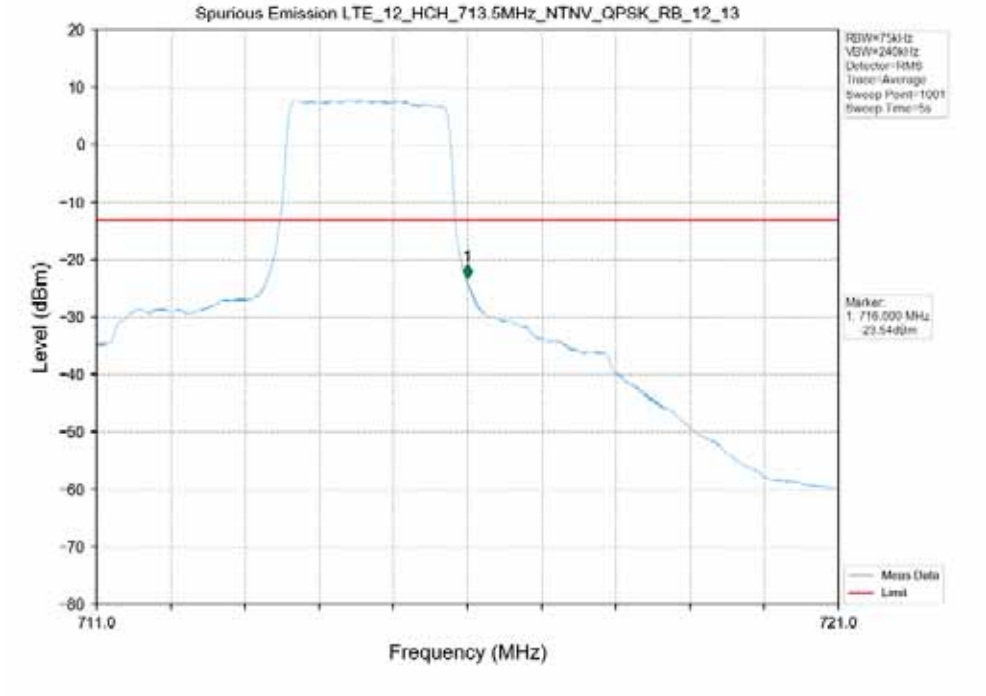

Spurious Emission LTE_12_LCH_701.5MHz_NTNV_QPSK_RB_12_0
RBW=75kHz
VBW=240kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker
1: 698.990 MHz
-22.17dBm
2: 699.000 MHz
-22.28dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
694.0
704.0

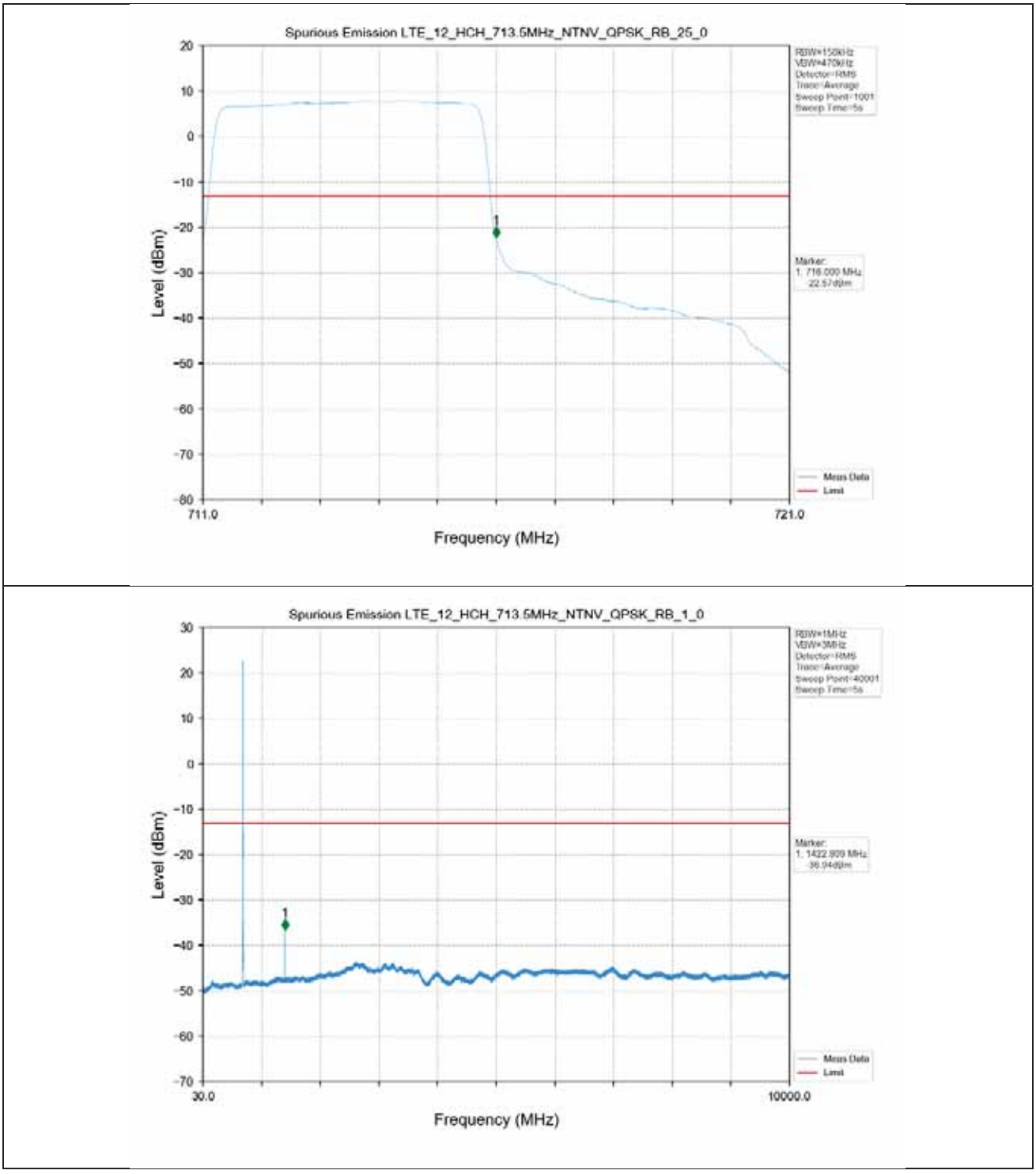

Spurious Emission LTE_12_LCH_701.5MHz_NTNV_QPSK_RB_25_0
RBW=150kHz
VBW=470kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker
1: 699.000 MHz
-22.21dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
694.0
704.0


Spurious Emission LTE_12_LCH_701.5MHz_NTNV_QPSK_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1398.932 MHz
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

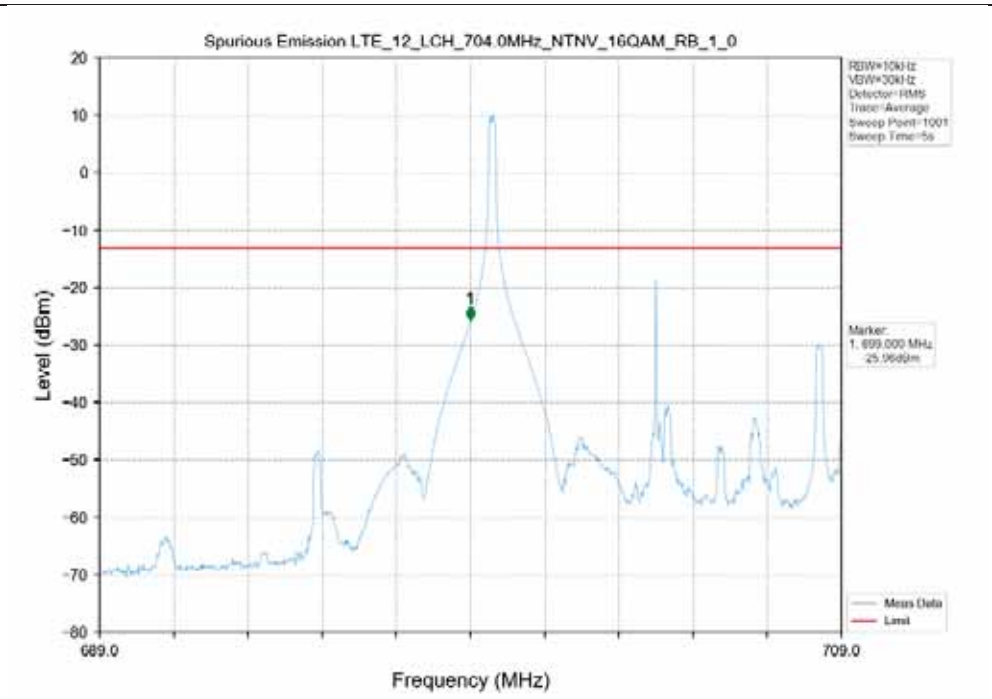

Spurious Emission LTE_12_MCH_707.5MHz_NTNV_QPSK_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1410.590 MHz
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

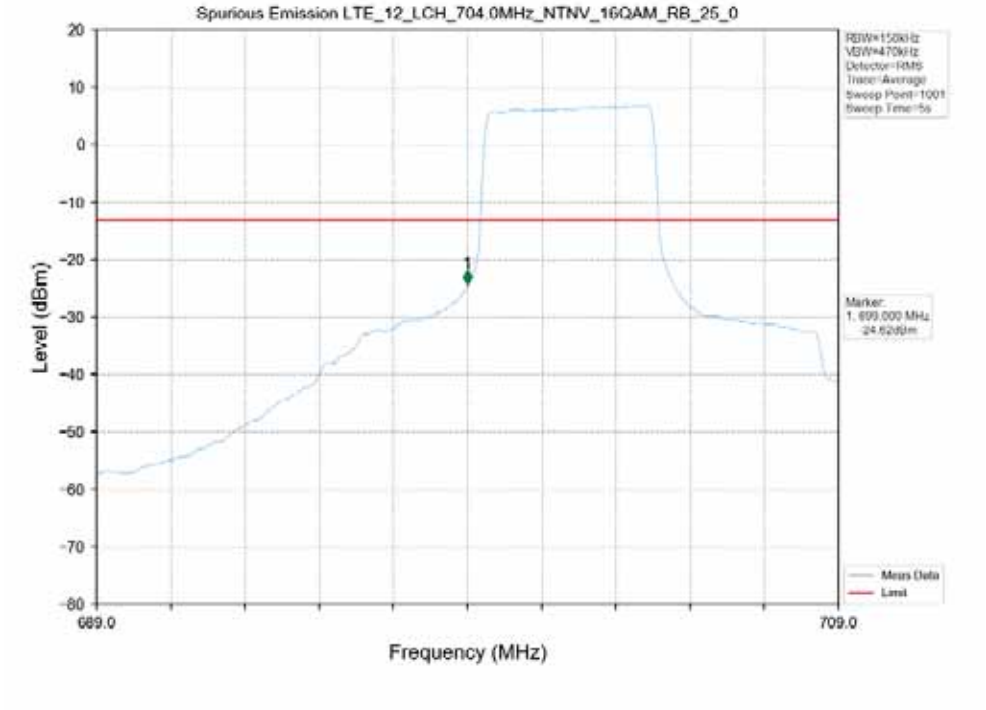

Spurious Emission LTE_12_HCH_713.5MHz_NTNV_QPSK_RB_1_24
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker
1. 716.000 MHz
22.62dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
711.0
721.0

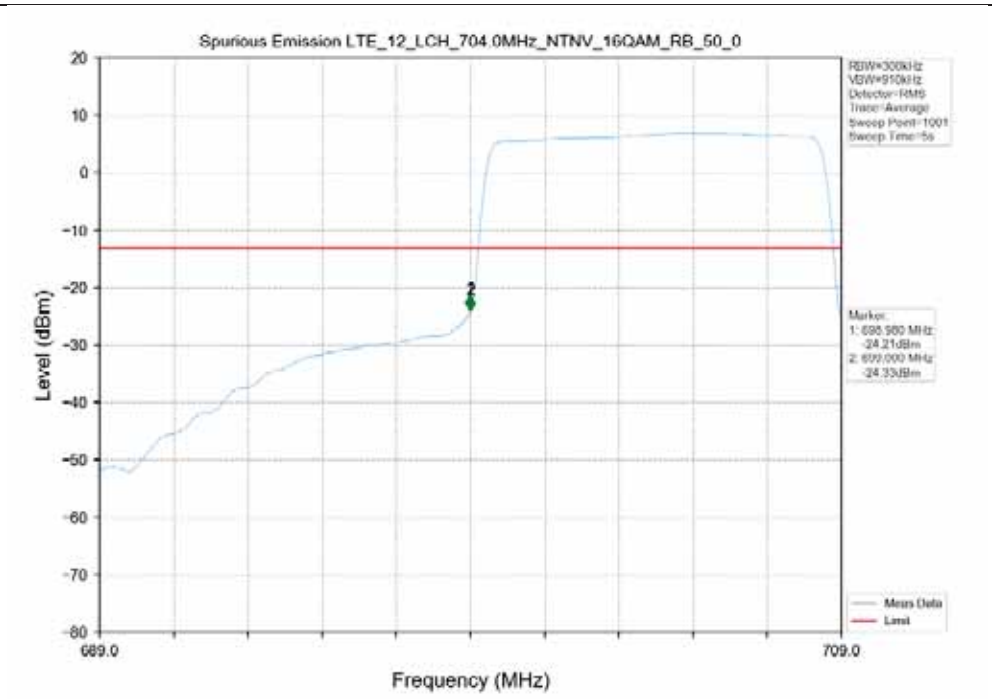

Spurious Emission LTE_12_HCH_713.5MHz_NTNV_QPSK_RB_12_13
RBW=75kHz
VBW=240kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker
1. 716.000 MHz
23.54dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
711.0
721.0

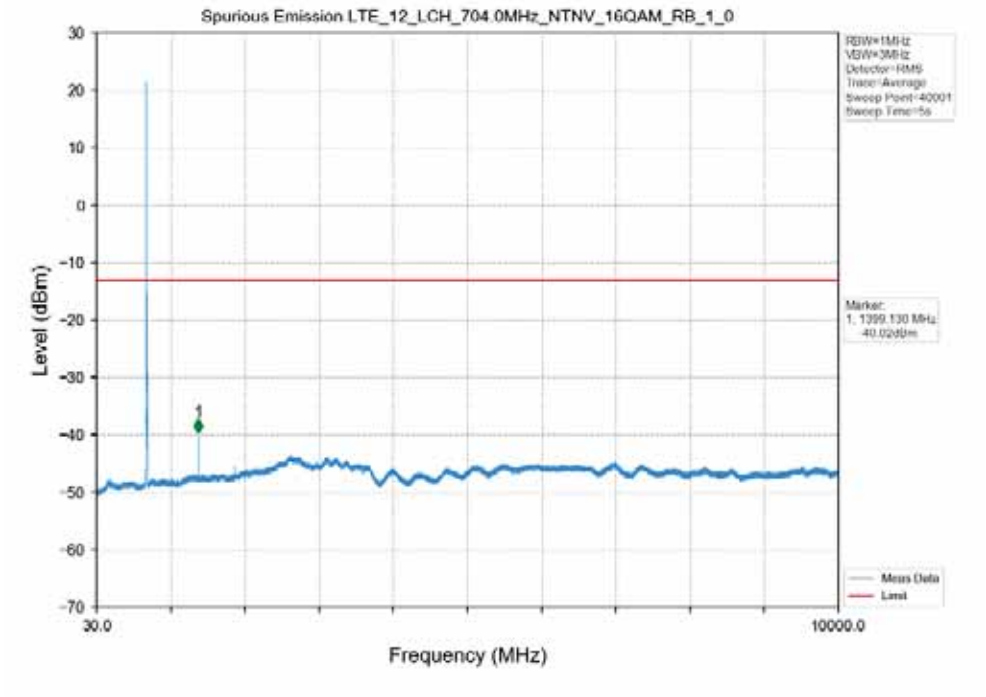


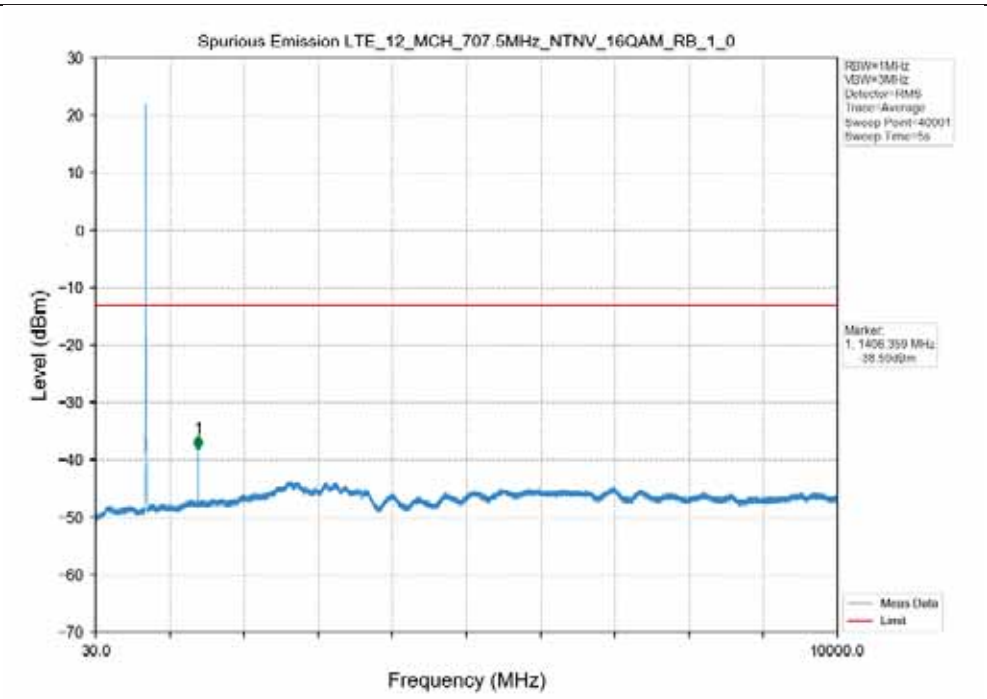
6.1 Test Graph

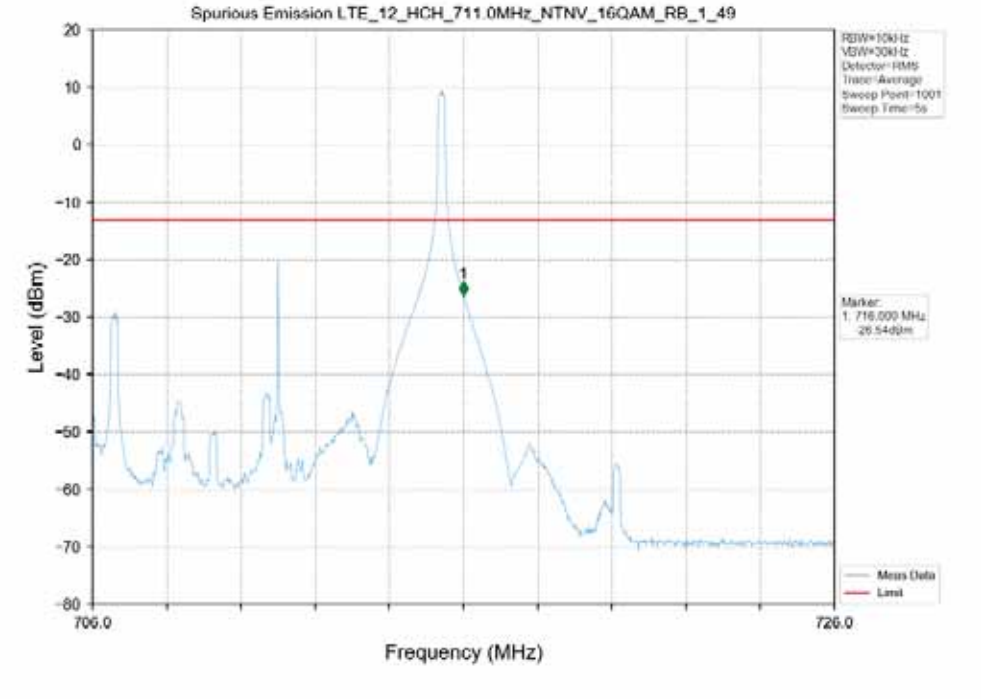

Spurious Emission LTE_12_LCH_704.0MHz_NTNV_16QAM_RB_1_0
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
25.96dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
689.0
709.0

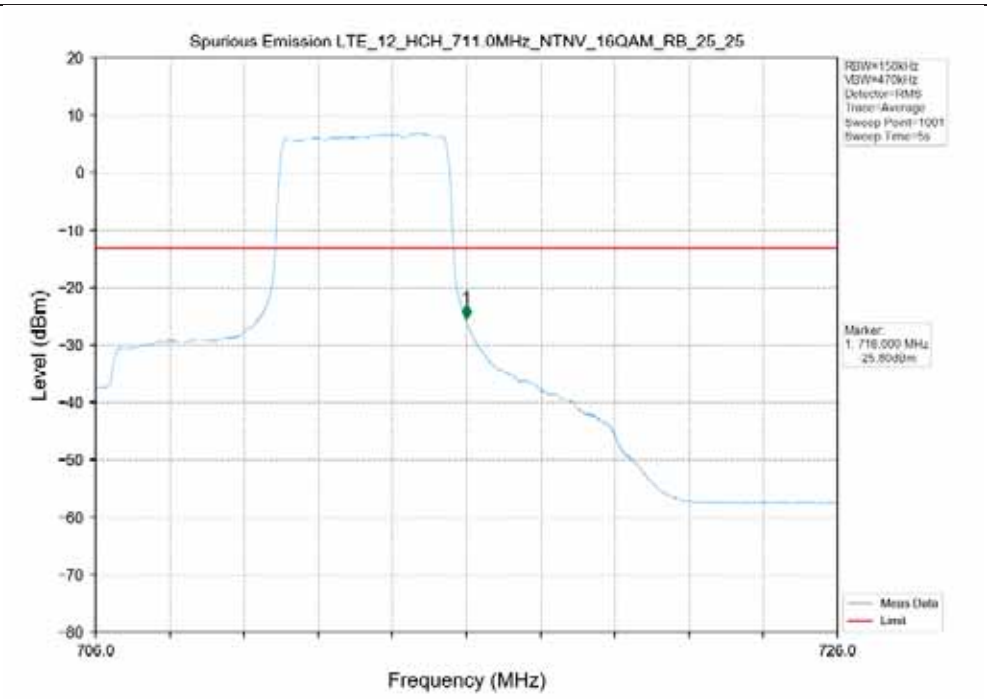

Spurious Emission LTE_12_LCH_704.0MHz_NTNV_16QAM_RB_25_0
RBW=150kHz
VBW=470kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
24.62dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
689.0
709.0

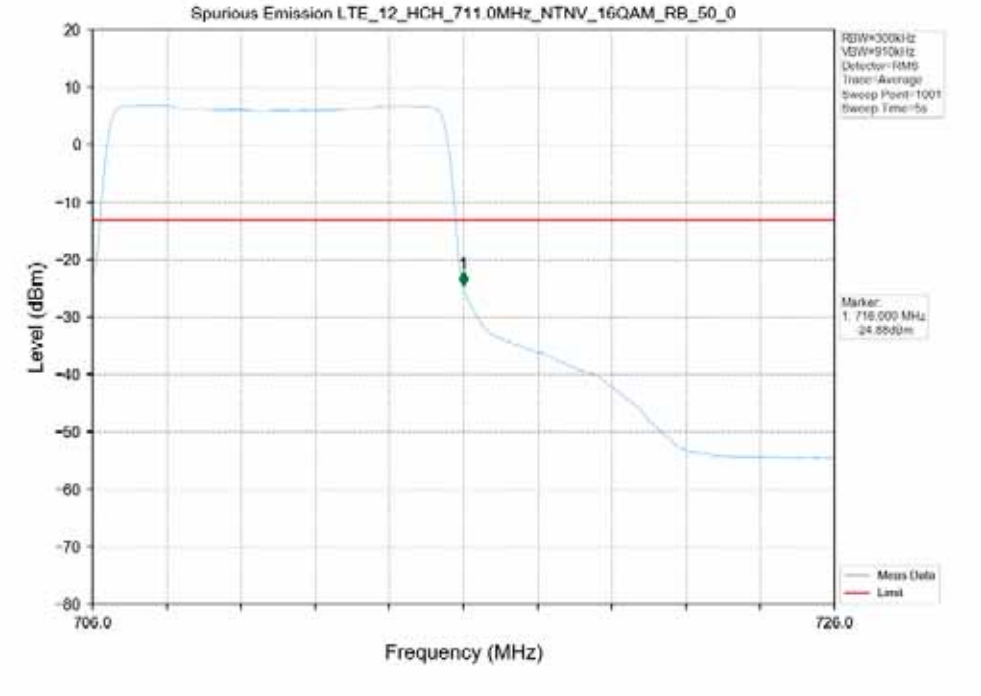

Spurious Emission LTE_12_LCH_704.0MHz_NTNV_16QAM_RB_50_0
RBW=300kHz
VBW=910kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1: 698.980 MHz
-24.21dBm
2: 699.000 MHz
-24.33dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
689.0
709.0

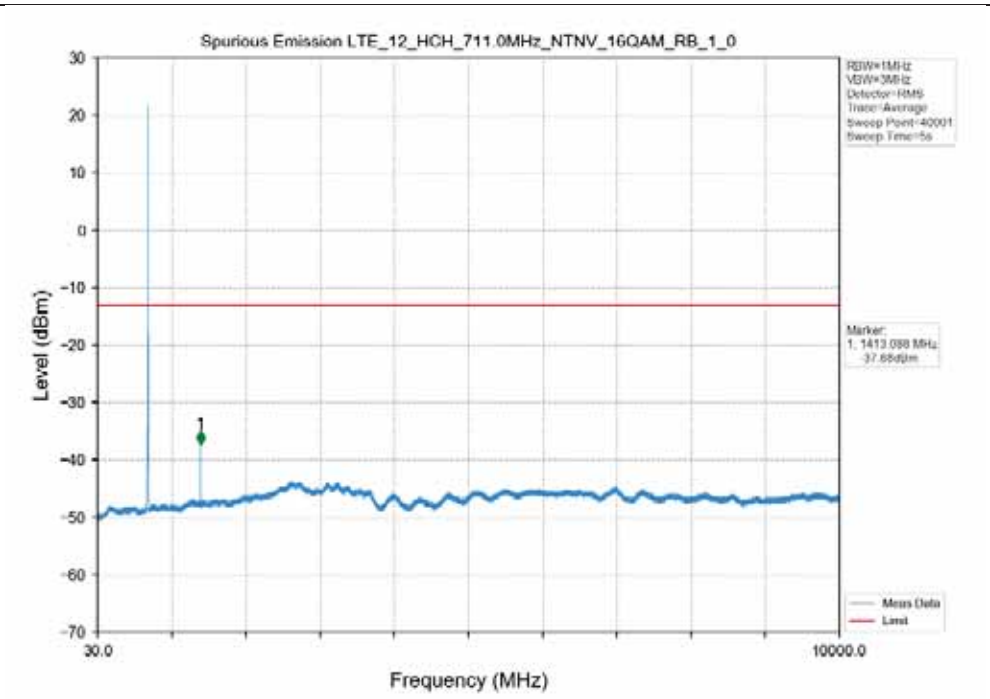

Spurious Emission LTE_12_LCH_704.0MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1: 1399.130 MHz
40.02dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

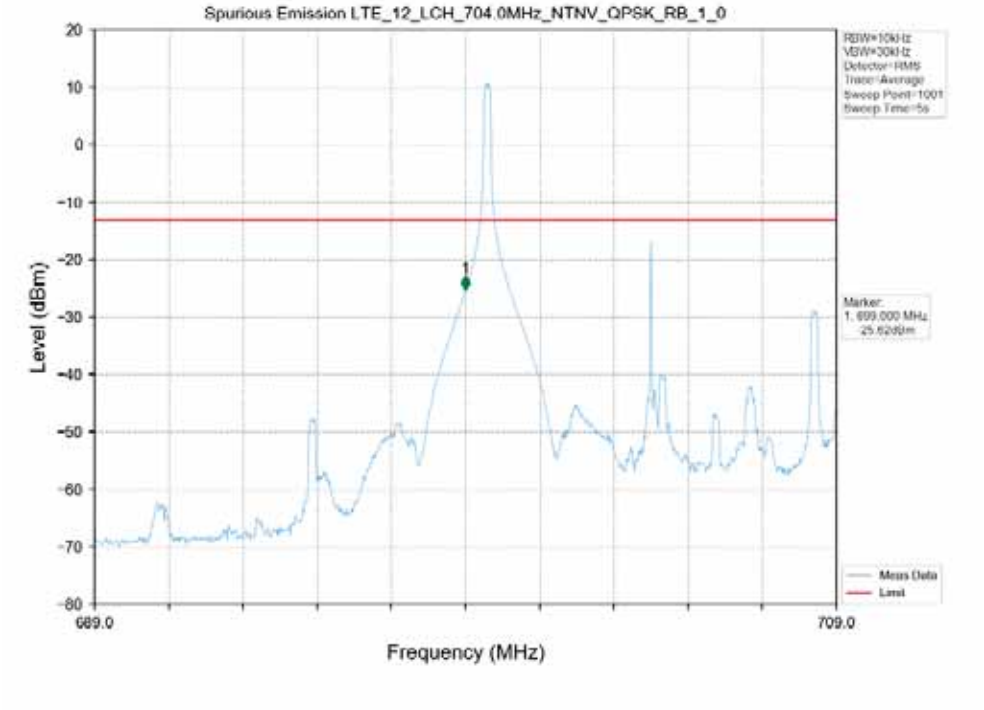

Spurious Emission LTE_12_MCH_707.5MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1406.359 MHz
-38.59dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

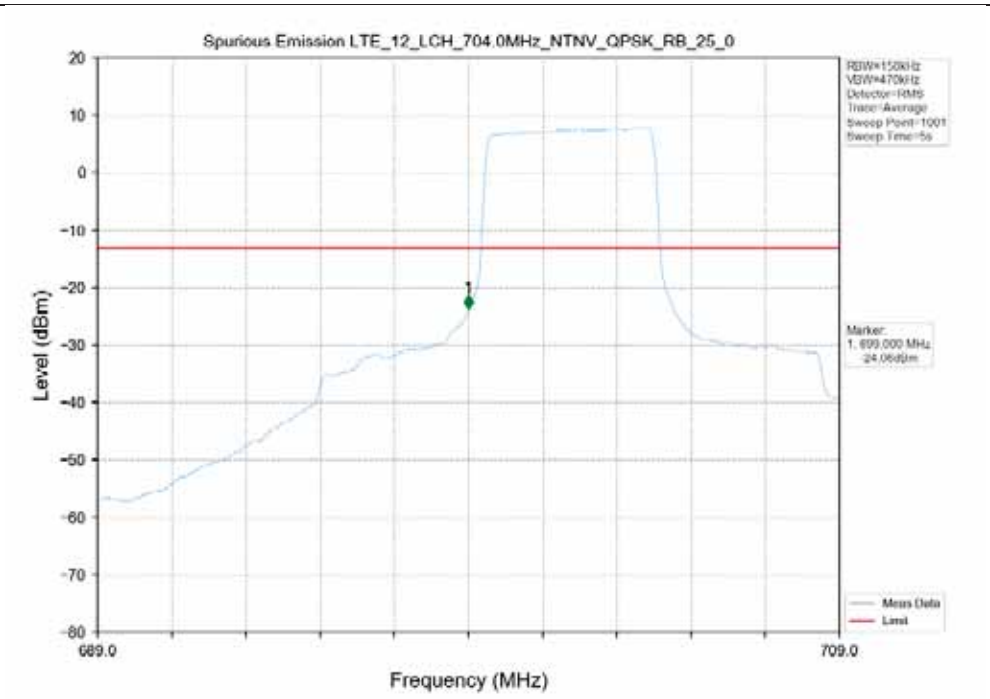

Spurious Emission LTE_12_HCH_711.0MHz_NTNV_16QAM_RB_1_49
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 716.000 MHz
-26.54dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
706.0
726.0

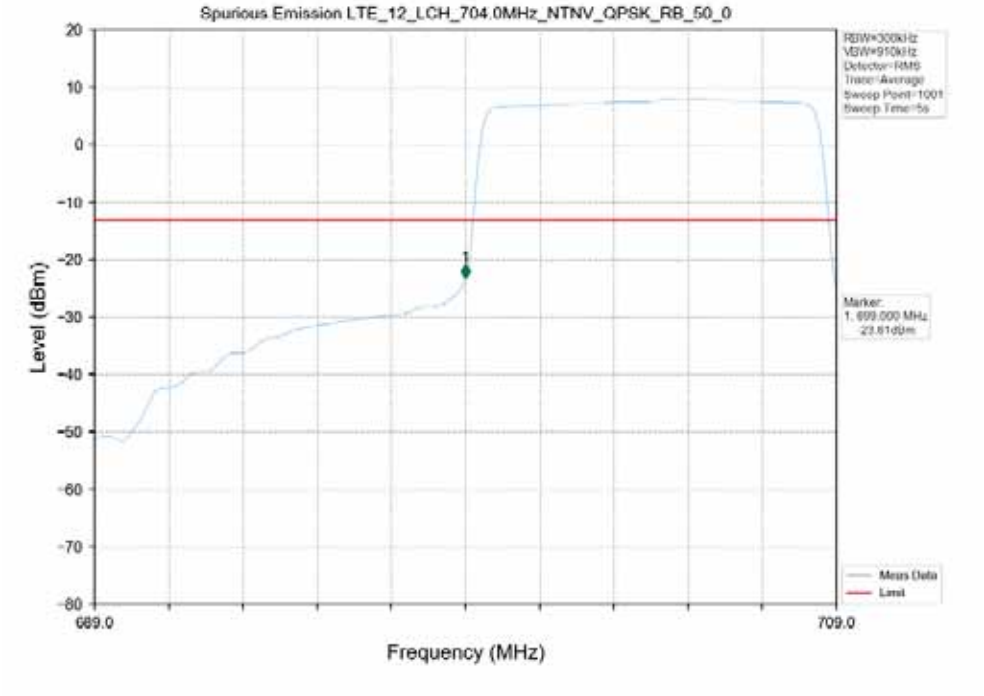

Spurious Emission LTE_12_HCH_711.0MHz_NTNV_16QAM_RB_25_25
RBW=150kHz
VBW=470kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1: 716.000 MHz
25.80dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
706.0
726.0

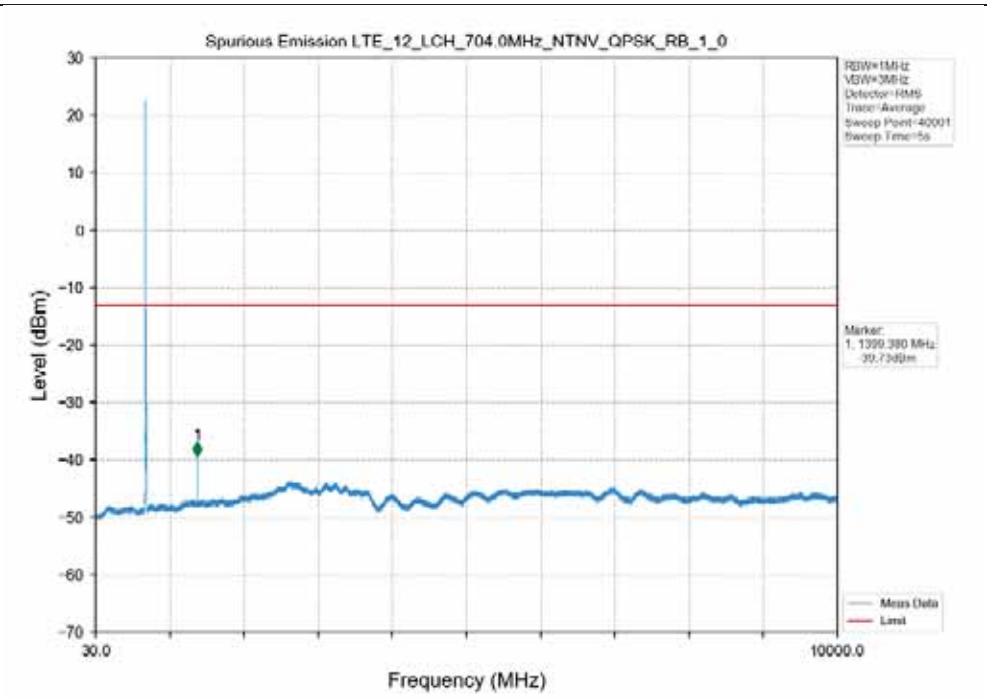

Spurious Emission LTE_12_HCH_711.0MHz_NTNV_16QAM_RB_50_0
RBW=300kHz
VBW=910kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1: 716.000 MHz
24.88dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
706.0
726.0

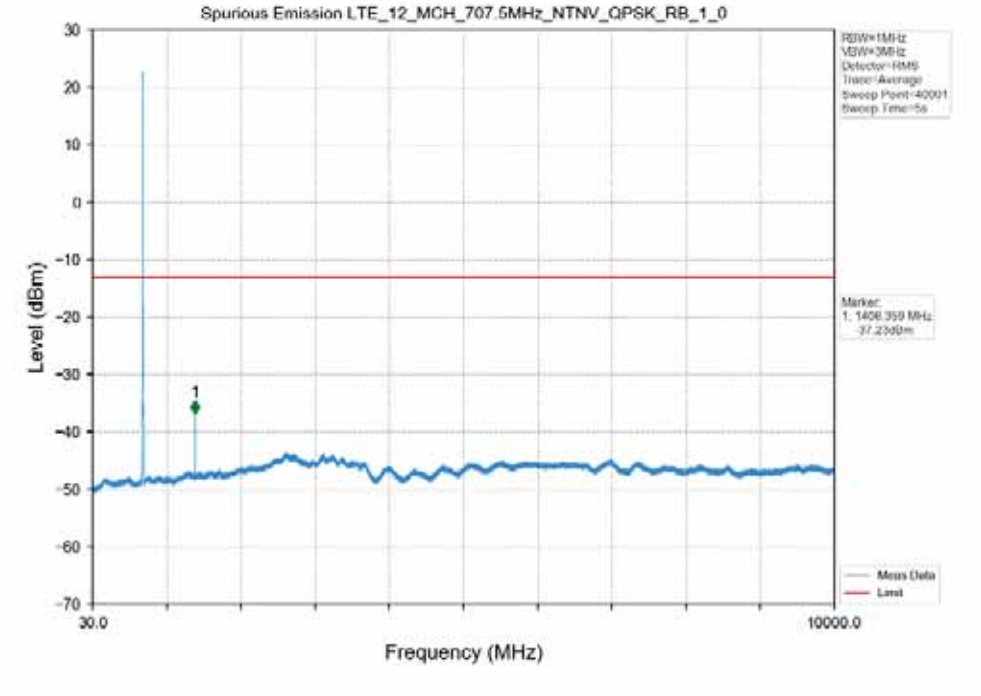

Spurious Emission LTE_12_HCH_711.0MHz_NTNV_16QAM_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1413.088 MHz
37.68dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0

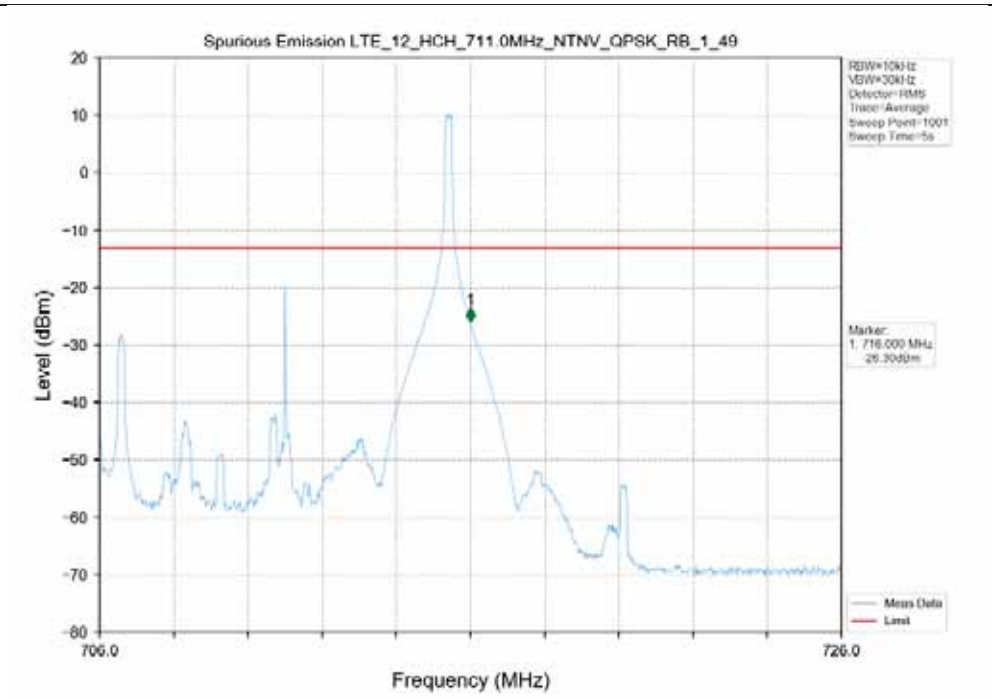

Spurious Emission LTE_12_LCH_704.0MHz_NTNV_QPSK_RB_1_0
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
25.62dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
689.0
709.0

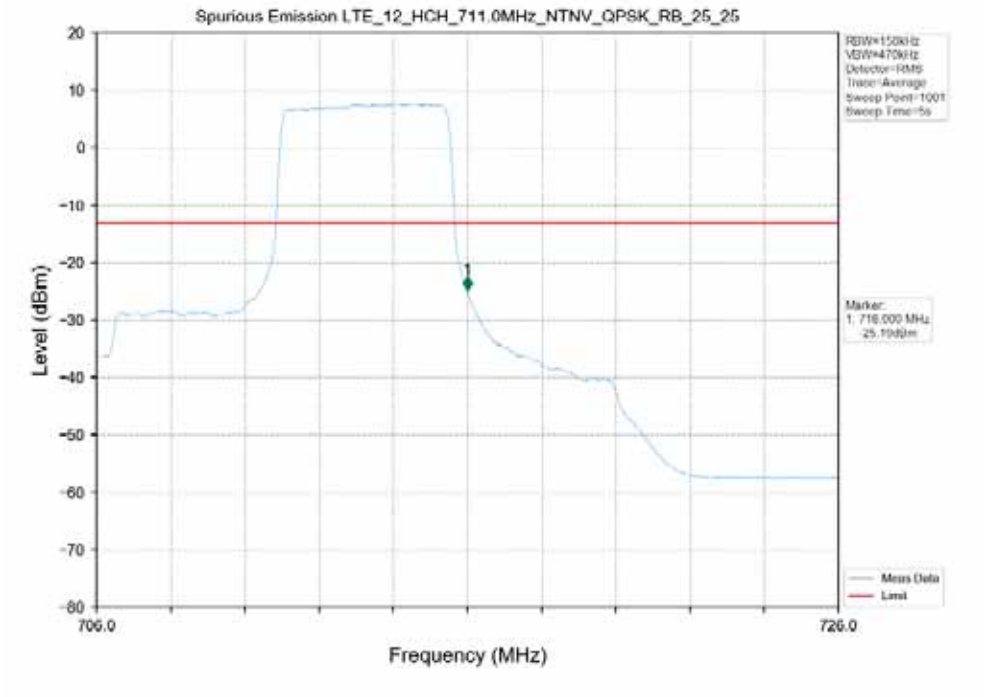

Spurious Emission LTE_12_LCH_704.0MHz_NTNV_QPSK_RB_25_0
RBW=150kHz
VBW=470kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
24.06dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
689.0
709.0

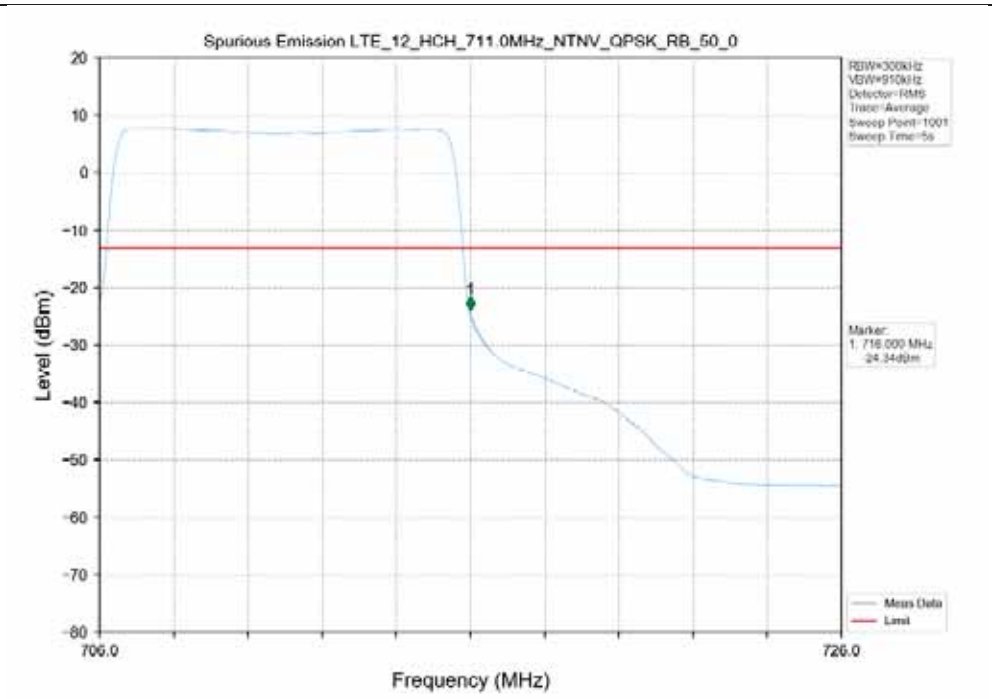

Spurious Emission LTE_12_LCH_704.0MHz_NTNV_QPSK_RB_50_0
RBW=300kHz
VBW=910kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 699.000 MHz
23.61dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
689.0
709.0

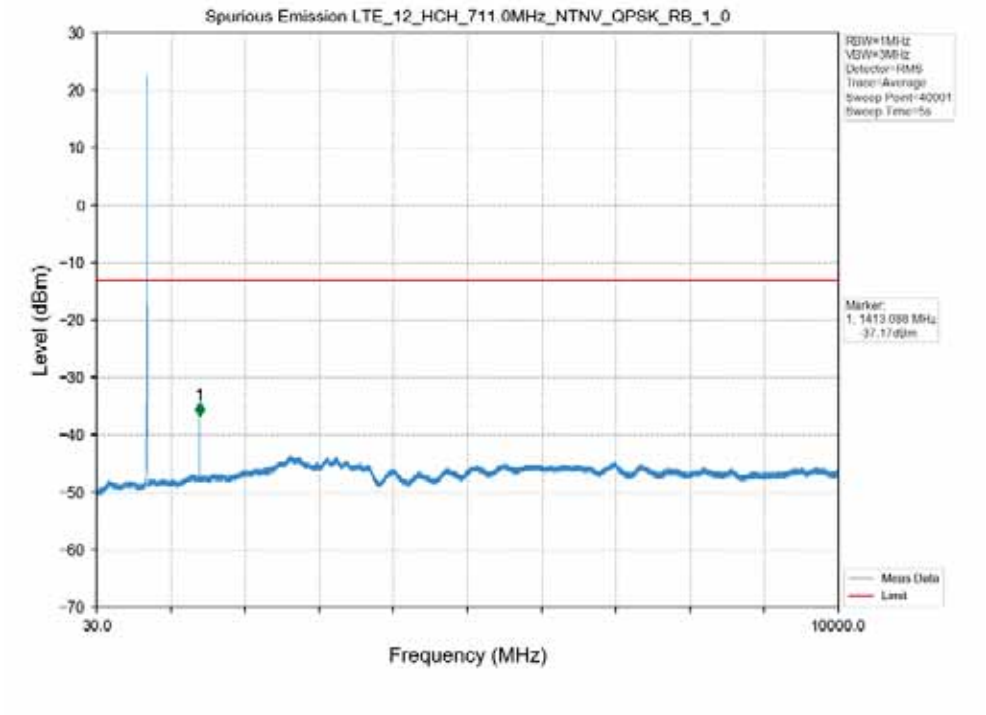

Spurious Emission LTE_12_LCH_704.0MHz_NTNV_QPSK_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1399.380 MHz
39.73dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0


Spurious Emission LTE_12_MCH_707.5MHz_NTNV_QPSK_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1406.359 MHz
37.23dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0


Spurious Emission LTE_12_HCH_711.0MHz_NTNV_QPSK_RB_1_49
RBW=10kHz
VBW=30kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker
1 716.000 MHz
26.30dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
706.0
726.0


Spurious Emission LTE_12_HCH_711.0MHz_NTNV_QPSK_RB_25_25
RBW=150kHz
VBW=470kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker
1 716.000 MHz
25.19dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
706.0
726.0


Spurious Emission LTE_12_HCH_711.0MHz_NTNV_QPSK_RB_50_0
RBW=300kHz
VBW=910kHz
Detector=RMS
Trace=Average
Sweep Point=1001
Sweep Time=5s
Marker:
1, 716.000 MHz
24.34dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
706.0
726.0


Spurious Emission LTE_12_HCH_711.0MHz_NTNV_QPSK_RB_1_0
RBW=1MHz
VBW=3MHz
Detector=RMS
Trace=Average
Sweep Point=40001
Sweep Time=5s
Marker:
1, 1413.000 MHz
-37.17dBm
Meas Data
Limit
Level (dBm)
Frequency (MHz)
30.0
10000.0