

Appendix D: Test Data for LTE Band 2

Product Name: TD0301 LTE Wi-Fi Hotspot

Test Model: TD0301

D1. Effective (Isotropic) Radiated Power Output Data

D1.1 Test Result

Test Band: 2 1.4MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.63	24.38	24.06	/	1.00	24.63	25.38	25.06	33.01	PASS
		2	23.64	24.38	24.11	/	1.00	24.64	25.38	25.11	33.01	PASS
		5	23.70	24.16	23.94	/	1.00	24.70	25.16	24.94	33.01	PASS
	3	0	23.77	24.28	23.94	/	1.00	24.77	25.28	24.94	33.01	PASS
		2	23.94	24.35	24.10	/	1.00	24.94	25.35	25.10	33.01	PASS
		3	23.61	24.28	24.02	/	1.00	24.61	25.28	25.02	33.01	PASS
16QAM	1	0	22.71	23.25	22.95	/	1.00	23.71	24.25	23.95	33.01	PASS
		2	23.19	23.60	23.39	/	1.00	24.19	24.60	24.39	33.01	PASS
		5	23.30	23.73	23.42	/	1.00	24.30	24.73	24.42	33.01	PASS
	3	0	23.18	23.65	23.13	/	1.00	24.18	24.65	24.13	33.01	PASS
		2	23.02	23.07	22.83	/	1.00	24.02	24.07	23.83	33.01	PASS
		2	23.06	23.02	22.72	/	1.00	24.06	24.02	23.72	33.01	PASS
	6	3	22.98	22.86	22.73	/	1.00	23.98	23.86	23.73	33.01	PASS
		0	21.82	22.18	21.86	/	1.00	22.82	23.18	22.86	33.01	PASS
		0	21.82	22.18	21.86	/	1.00	22.82	23.18	22.86	33.01	PASS

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

Test Band: 2 3MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.70	24.35	24.17	/	1.00	24.70	25.35	25.17	33.01	PASS
		7	23.93	24.50	24.22	/	1.00	24.93	25.50	25.22	33.01	PASS
		14	23.54	24.19	23.88	/	1.00	24.54	25.19	24.88	33.01	PASS
	8	0	22.76	23.46	23.23	/	1.00	23.76	24.46	24.23	33.01	PASS
		4	22.63	23.38	23.03	/	1.00	23.63	24.38	24.03	33.01	PASS
		7	22.64	23.37	23.06	/	1.00	23.64	24.37	24.06	33.01	PASS
	15	0	22.72	23.35	23.19	/	1.00	23.72	24.35	24.19	33.01	PASS
	22.77		23.57	23.07	/	1.00	23.77	24.57	24.07	33.01	PASS	
16QAM	1	7	22.73	23.44	22.85	/	1.00	23.73	24.44	23.85	33.01	PASS
		14	22.33	23.32	22.20	/	1.00	23.33	24.32	23.20	33.01	PASS
		0	21.45	22.53	22.29	/	1.00	22.45	23.53	23.29	33.01	PASS
	8	4	21.37	22.48	22.18	/	1.00	22.37	23.48	23.18	33.01	PASS
		7	21.31	22.50	22.24	/	1.00	22.31	23.50	23.24	33.01	PASS
		0	21.54	22.40	21.93	/	1.00	22.54	23.40	22.93	33.01	PASS
	Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)											

Test Band: 2 5MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.49	24.54	24.17	/	1.00	24.49	25.54	25.17	33.01	PASS
		13	23.34	24.43	23.96	/	1.00	24.34	25.43	24.96	33.01	PASS
		24	23.21	24.08	24.00	/	1.00	24.21	25.08	25.00	33.01	PASS
	12	0	22.67	23.50	23.33	/	1.00	23.67	24.50	24.33	33.01	PASS
		6	22.63	23.42	23.17	/	1.00	23.63	24.42	24.17	33.01	PASS
		13	22.46	23.20	23.11	/	1.00	23.46	24.20	24.11	33.01	PASS
	25	0	22.58	23.36	23.23	/	1.00	23.58	24.36	24.23	33.01	PASS
	23.15		23.77	23.05	/	1.00	24.15	24.77	24.05	33.01	PASS	
16QAM	1	13	22.76	23.70	22.72	/	1.00	23.76	24.70	23.72	33.01	PASS
		24	22.44	23.54	22.39	/	1.00	23.44	24.54	23.39	33.01	PASS
		0	21.76	22.37	22.23	/	1.00	22.76	23.37	23.23	33.01	PASS
	12	6	21.66	22.28	22.07	/	1.00	22.66	23.28	23.07	33.01	PASS
		13	21.50	22.18	21.93	/	1.00	22.50	23.18	22.93	33.01	PASS
		25	0	21.52	22.35	22.14	/	1.00	22.52	23.35	23.14	33.01
	Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)											

Test Band: 2 10MHz Bandwidth												
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH		
QPSK	1	0	23.62	24.57	24.11	/	1.00	24.62	25.57	25.11	33.01	PASS
		25	23.76	24.62	24.45	/	1.00	24.76	25.62	25.45	33.01	PASS
		49	23.05	23.69	23.91	/	1.00	24.05	24.69	24.91	33.01	PASS
	25	0	22.55	23.45	23.42	/	1.00	23.55	24.45	24.42	33.01	PASS
		13	22.49	23.38	23.40	/	1.00	23.49	24.38	24.40	33.01	PASS
		25	22.24	23.05	23.14	/	1.00	23.24	24.05	24.14	33.01	PASS
	50	0	22.45	23.29	23.36	/	1.00	23.45	24.29	24.36	33.01	PASS
	22.76		24.05	23.26	/	1.00	23.76	25.05	24.26	33.01	PASS	
16QAM	1	25	23.11	23.64	23.43	/	1.00	24.11	24.64	24.43	33.01	PASS
		49	22.28	23.28	22.48	/	1.00	23.28	24.28	23.48	33.01	PASS
		0	21.68	22.40	22.42	/	1.00	22.68	23.40	23.42	33.01	PASS
	25	13	21.56	22.31	22.38	/	1.00	22.56	23.31	23.38	33.01	PASS
		25	21.30	22.15	22.07	/	1.00	22.30	23.15	23.07	33.01	PASS
		50	0	21.45	22.19	22.12	/	1.00	22.45	23.19	23.12	33.01
	Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)											

Test Band: 2 15MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.59	24.57	23.83	/	1.00	24.59	25.57	24.83	33.01	PASS	
		38	23.35	24.48	24.46	/	1.00	24.35	25.48	25.46	33.01	PASS	
		74	23.36	23.54	23.84	/	1.00	24.36	24.54	24.84	33.01	PASS	
	36	0	22.51	23.58	23.19	/	1.00	23.51	24.58	24.19	33.01	PASS	
		18	22.40	23.39	23.42	/	1.00	23.40	24.39	24.42	33.01	PASS	
		39	22.38	22.87	23.30	/	1.00	23.38	23.87	24.30	33.01	PASS	
	75	0	22.51	23.28	23.24	/	1.00	23.51	24.28	24.24	33.01	PASS	
	22.67		23.98	22.23	/	1.00	23.67	24.98	23.23	33.01	PASS		
16QAM	1	38	22.48	23.42	24.15	/	1.00	23.48	24.42	25.15	33.01	PASS	
		74	21.66	22.89	22.43	/	1.00	22.66	23.89	23.43	33.01	PASS	
		0	21.53	22.67	22.22	/	1.00	22.53	23.67	23.22	33.01	PASS	
	36	18	21.50	22.48	22.37	/	1.00	22.50	23.48	23.37	33.01	PASS	
		39	21.21	22.05	22.16	/	1.00	22.21	23.05	23.16	33.01	PASS	
		75	0	21.33	22.22	22.15	/	1.00	22.33	23.22	23.15	33.01	PASS
	Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 2 20MHz Bandwidth													
Modulation	RB Allocation		Conducted Power (dBm)			Antenna gain		EIRP(dBm)			Limit (dBm)	Verdict	
	Size	Offset	LCH	MCH	HCH	(dBd)	(dBi)	LCH	MCH	HCH			
QPSK	1	0	23.68	24.44	23.41	/	1.00	24.68	25.44	24.41	33.01	PASS	
		50	23.48	24.45	24.69	/	1.00	24.48	25.45	25.69	33.01	PASS	
		99	24.22	23.22	23.81	/	1.00	25.22	24.22	24.81	33.01	PASS	
	50	0	22.53	23.62	22.85	/	1.00	23.53	24.62	23.85	33.01	PASS	
		25	22.45	23.37	23.40	/	1.00	23.45	24.37	24.40	33.01	PASS	
		50	22.75	22.81	23.42	/	1.00	23.75	23.81	24.42	33.01	PASS	
	100	0	22.60	23.30	23.08	/	1.00	23.60	24.30	24.08	33.01	PASS	
			22.99	23.26	22.90	/	1.00	23.99	24.26	23.90	33.01	PASS	
16QAM	1	50	23.05	23.36	24.06	/	1.00	24.05	24.36	25.06	33.01	PASS	
		99	23.69	22.14	22.69	/	1.00	24.69	23.14	23.69	33.01	PASS	
		0	21.47	22.53	21.79	/	1.00	22.47	23.53	22.79	33.01	PASS	
	50	25	21.41	22.37	22.41	/	1.00	22.41	23.37	23.41	33.01	PASS	
		50	21.62	21.84	22.39	/	1.00	22.62	22.84	23.39	33.01	PASS	
		100	0	21.54	22.15	22.11	/	1.00	22.54	23.15	23.11	33.01	PASS
	Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

D2. Frequency stability

D2.1 Test Result

Test Band: 2_ 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	- 2.145 8	- 2.203 0	0.486 4	-0.0012	-0.0012	0.0003	2.50	PASS
				NV	- 2.746 6	- 1.916 9	0.557 9	-0.0015	-0.0010	0.0003	2.50	PASS
				HV	- 1.401 9	- 4.134 2	- 1.387 6	-0.0008	-0.0022	-0.0007	2.50	PASS
16QAM	6	0	NT	LV	- 1.516 3	- 3.790 9	0.371 9	-0.0008	-0.0020	-0.0002	2.50	PASS
				NV	- 1.974 1	- 1.673 7	0.715 3	-0.0011	-0.0009	0.0004	2.50	PASS
				HV	- 1.373 3	- 3.504 8	0.128 7	-0.0007	-0.0019	0.0001	2.50	PASS

Test Band: 2_ 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	- 2.889 6	- 4.162 8	- 1.287 5	-0.0016	-0.0022	-0.0007	2.50	PASS
				-20.00	- 2.517 7	- 3.590 6	- 0.143 1	-0.0014	-0.0019	-0.0001	2.50	PASS
				-10.00	- 1.530 6	- 3.376 0	- 1.144 4	-0.0008	-0.0018	-0.0006	2.50	PASS
				0.00	- 0.772 5	- 4.720 7	0.529 3	-0.0004	-0.0025	0.0003	2.50	PASS
				10.00	- 1.630 8	- 3.747 9	0.400 5	-0.0009	-0.0020	0.0002	2.50	PASS
				20.00	- 0.886 9	- 3.190 0	- 0.557 9	-0.0005	-0.0017	-0.0003	2.50	PASS
				30.00	- 1.959 8	- 3.948 2	- 1.072 9	-0.0011	-0.0021	-0.0006	2.50	PASS
				40.00	- 1.187 3	- 3.461 8	- 0.114 4	-0.0006	-0.0018	-0.0001	2.50	PASS
				50.00	- 0.486 4	- 3.933 9	0.143 1	-0.0003	-0.0021	0.0001	2.50	PASS

16QAM	6	0	NV	-30.00	- 1.745 2	- 2.760 9	0.014 3	-0.0009	-0.0015	0.0000	2.50	PASS
				-20.00	- 2.517 7	- 2.546 3	0.400 5	-0.0014	-0.0014	-0.0002	2.50	PASS
				-10.00	- 1.988 4	- 3.790 9	0.572 2	-0.0011	-0.0020	-0.0003	2.50	PASS
				0.00	- 1.430 5	- 3.404 6	0.543 6	-0.0008	-0.0018	-0.0003	2.50	PASS
				10.00	- 1.416 2	- 4.320 1	0.715 3	-0.0008	-0.0023	-0.0004	2.50	PASS
				20.00	- 2.203 0	- 3.519 1	0.543 6	-0.0012	-0.0019	-0.0003	2.50	PASS
				30.00	- 1.773 8	- 2.861 0	0.085 8	-0.0010	-0.0015	0.0000	2.50	PASS
				40.00	- 3.590 6	- 3.676 4	1.444 8	-0.0019	-0.0020	-0.0008	2.50	PASS
				50.00	- 3.147 1	- 2.603 5	0.228 9	-0.0017	-0.0014	-0.0001	2.50	PASS

Test Band: 2_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	- 4.305 8	- 4.148 5	1.688 0	-0.0023	-0.0022	0.0009	2.50	PASS
				NV	- 2.403 3	- 2.474 8	1.559 3	-0.0013	-0.0013	-0.0008	2.50	PASS
				HV	- 3.118 5	- 3.132 8	1.802 4	-0.0017	-0.0017	0.0009	2.50	PASS
16QAM	15	0	NT	LV	- 2.460 5	- 2.660 8	0.586 5	-0.0013	-0.0014	-0.0003	2.50	PASS
				NV	- 1.688 0	- 1.902 6	1.716 6	-0.0009	-0.0010	-0.0009	2.50	PASS
				HV	- 3.247 3	- 1.545 0	0.100 1	-0.0018	-0.0008	-0.0001	2.50	PASS

Test Band: 2 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	- 5.049 7	- 2.203 0	- 0.472 1	-0.0027	-0.0012	-0.0002	2.50	PASS
				-20.00	- 3.962 5	- 4.363 1	- 1.044 3	-0.0021	-0.0023	0.0005	2.50	PASS
				-10.00	- 2.117 2	- 3.933 9	- 0.472 1	-0.0011	-0.0021	-0.0002	2.50	PASS
				0.00	- 3.376 0	- 2.718 0	- 1.187 3	-0.0018	-0.0014	-0.0006	2.50	PASS
				10.00	- 2.932 5	- 3.376 0	- 0.429 2	-0.0016	-0.0018	0.0002	2.50	PASS
				20.00	- 2.489 1	- 3.004 1	- 1.144 4	-0.0013	-0.0016	0.0006	2.50	PASS
				30.00	- 3.233 0	- 2.803 8	- 0.414 8	-0.0017	-0.0015	0.0002	2.50	PASS
				40.00	- 3.376 0	- 3.747 9	- 0.329 0	-0.0018	-0.0020	0.0002	2.50	PASS
				50.00	- 3.075 6	- 3.032 7	- 0.987 1	-0.0017	-0.0016	0.0005	2.50	PASS
16QAM	15	0	NV	-30.00	- 3.304 5	- 3.719 3	- 0.228 9	-0.0018	-0.0020	0.0001	2.50	PASS
				-20.00	- 3.333 1	- 2.560 6	- 0.643 7	-0.0018	-0.0014	0.0003	2.50	PASS
				-10.00	- 2.903 9	- 2.789 5	- 0.801 1	-0.0016	-0.0015	-0.0004	2.50	PASS
				0.00	- 1.545 0	- 2.875 3	- 1.359 0	-0.0008	-0.0015	-0.0007	2.50	PASS
				10.00	- 3.247 3	- 2.231 6	- 0.701 0	-0.0018	-0.0012	-0.0004	2.50	PASS
				20.00	- 3.604 9	- 1.874 0	- 0.572 2	-0.0019	-0.0010	-0.0003	2.50	PASS
				30.00	- 3.733 6	- 2.260 2	- 0.186 0	-0.0020	-0.0012	-0.0001	2.50	PASS
				40.00	- 2.932 5	- 2.074 2	- 0.171 7	-0.0016	-0.0011	-0.0001	2.50	PASS
				50.00	- 1.859 7	- 3.719 3	- 0.286 1	-0.0010	-0.0020	-0.0001	2.50	PASS

Test Band: 2 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	- 1.545 0	- 3.004 1	0.157 4	-0.0008	-0.0016	0.0001	2.50	PASS
				NV	- 0.557 9	- 4.391 7	0.100 1	-0.0003	-0.0023	0.0001	2.50	PASS
				HV	- 2.045 6	- 3.705 0	- 0.114 4	-0.0011	-0.0020	-0.0001	2.50	PASS
16QAM	25	0	NT	LV	- 1.215 9	- 2.217 3	- 2.131 5	-0.0007	-0.0012	-0.0011	2.50	PASS
				NV	- 0.543 6	- 4.677 8	- 0.014 3	-0.0003	-0.0025	0.0000	2.50	PASS
				HV	- 1.030 0	- 3.061 3	- 0.329 0	-0.0006	-0.0016	-0.0002	2.50	PASS

Test Band: 2 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	- 0.100 1	- 3.776 6	0.071 5	-0.0001	-0.0020	0.0000	2.50	PASS
				-20.00	- 0.915 5	- 4.220 0	0.615 1	-0.0005	-0.0022	0.0003	2.50	PASS
				-10.00	- 0.772 5	- 2.760 9	0.486 4	-0.0004	-0.0015	0.0003	2.50	PASS
				0.00	- 1.258 8	- 3.619 2	0.371 9	-0.0007	-0.0019	0.0002	2.50	PASS
				10.00	- 1.931 2	- 3.676 4	0.457 8	-0.0010	-0.0020	0.0002	2.50	PASS
				20.00	0.143 1	- 2.832 4	- 1.273 2	0.0001	-0.0015	-0.0007	2.50	PASS
				30.00	- 1.173 0	- 4.363 1	- 0.171 7	-0.0006	-0.0023	-0.0001	2.50	PASS
				40.00	0.572 2	- 3.919 6	- 0.572 2	0.0003	-0.0021	-0.0003	2.50	PASS
				50.00	- 1.330 4	- 2.718 0	0.085 8	-0.0007	-0.0014	0.0000	2.50	PASS
16QAM	25	0	NV	-30.00	- 1.101 5	- 3.619 2	- 0.701 0	-0.0006	-0.0019	-0.0004	2.50	PASS
				-20.00	- 0.228 9	- 2.431 9	- 0.042 9	-0.0001	-0.0013	0.0000	2.50	PASS
				-10.00	- 1.673 7	- 3.933 9	- 0.429 2	-0.0009	-0.0021	-0.0002	2.50	PASS
				0.00	- 0.543 6	- 2.245 9	- 1.015 7	-0.0003	-0.0012	-0.0005	2.50	PASS
				10.00	- 0.772 5	- 4.119 9	0.028 6	-0.0004	-0.0022	0.0000	2.50	PASS
				20.00	0.300 4	- 3.991 1	0.171 7	0.0002	-0.0021	0.0001	2.50	PASS
				30.00	- 0.557 9	- 3.490 4	0.529 3	-0.0003	-0.0019	0.0003	2.50	PASS
				40.00	1.030 0	- 3.447 5	- 0.429 2	0.0006	-0.0018	-0.0002	2.50	PASS
				50.00	- 1.072 9	- 2.789 5	- 0.028 6	-0.0006	-0.0015	0.0000	2.50	PASS

Test Band: 2 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	- 3.004 1	- 1.845 4	1.058 6	-0.0016	-0.0010	0.0006	2.50	PASS
				NV	- 1.330 4	- 3.118 5	0.500 7	-0.0007	-0.0017	0.0003	2.50	PASS
				HV	- 3.118 5	- 2.389 0	1.044 3	-0.0017	-0.0013	0.0005	2.50	PASS
16QAM	50	0	NT	LV	- 2.403 3	- 3.161 4	- 0.314 7	-0.0013	-0.0017	-0.0002	2.50	PASS
				NV	- 1.959 8	- 3.089 9	1.401 9	-0.0011	-0.0016	0.0007	2.50	PASS
				HV	- 2.446 2	- 3.047 0	1.587 9	-0.0013	-0.0016	0.0008	2.50	PASS

Test Band: 2 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	- 2.274 5	- 2.918 2	0.615 1	-0.0012	-0.0016	0.0003	2.50	PASS
				-20.00	- 2.775 2	- 3.719 3	- 1.115 8	-0.0015	-0.0020	-0.0006	2.50	PASS
				-10.00	- 3.547 7	- 2.260 2	0.143 1	-0.0019	-0.0012	0.0001	2.50	PASS
				0.00	- 3.690 7	- 2.460 5	1.459 1	-0.0020	-0.0013	0.0008	2.50	PASS
				10.00	- 3.705 0	- 3.032 7	1.316 1	-0.0020	-0.0016	0.0007	2.50	PASS
				20.00	- 2.446 2	- 3.833 8	- 0.071 5	-0.0013	-0.0020	0.0000	2.50	PASS
				30.00	- 2.145 8	- 2.961 2	0.686 6	-0.0012	-0.0016	0.0004	2.50	PASS
				40.00	- 2.517 7	- 3.533 4	0.071 5	-0.0014	-0.0019	0.0000	2.50	PASS
				50.00	- 2.689 4	- 4.606 2	- 0.314 7	-0.0014	-0.0025	-0.0002	2.50	PASS
16QAM	50	0	NV	-30.00	- 1.931 2	- 3.991 1	0.743 9	-0.0010	-0.0021	0.0004	2.50	PASS
				-20.00	- 3.705	- 3.132	- 0.114	-0.0020	-0.0017	-0.0001	2.50	PASS

				0	8	4						
				-10.00	2.532 0	3.790 9	0.200 3	-0.0014	-0.0020	0.0001	2.50	PASS
				0.00	2.617 8	3.976 8	0.071 5	-0.0014	-0.0021	0.0000	2.50	PASS
				10.00	3.333 1	3.962 5	0.200 3	-0.0018	-0.0021	-0.0001	2.50	PASS
				20.00	3.690 7	4.105 6	1.201 6	-0.0020	-0.0022	0.0006	2.50	PASS
				30.00	3.047 0	3.161 4	0.872 6	-0.0016	-0.0017	0.0005	2.50	PASS
				40.00	2.489 1	2.818 1	0.701 0	-0.0013	-0.0015	0.0004	2.50	PASS
				50.00	1.745 2	4.563 3	0.443 5	-0.0009	-0.0024	0.0002	2.50	PASS

Test Band: 2 15MHz 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	75	0	NT	LV	2.732 3	3.547 7	4.134 2	-0.0015	-0.0019	-0.0022	2.50	PASS
				NV	3.504 8	4.005 4	3.418 9	-0.0019	-0.0021	-0.0018	2.50	PASS
				HV	3.848 1	3.290 2	2.832 4	-0.0021	-0.0018	-0.0015	2.50	PASS
16QAM	75	0	NT	LV	3.190 0	3.619 2	3.175 7	-0.0017	-0.0019	-0.0017	2.50	PASS
				NV	3.247 3	3.476 1	2.718 0	-0.0017	-0.0018	-0.0014	2.50	PASS
				HV	3.361 7	3.590 6	3.218 7	-0.0018	-0.0019	-0.0017	2.50	PASS

Test Band: 2_15MHz 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	75	0	NV	-30.00	- 4.234 3	- 3.147 1	- 3.619 2	-0.0023	-0.0017	-0.0019	2.50	PASS
				-20.00	- 2.589 2	- 2.274 5	- 2.718 0	-0.0014	-0.0012	-0.0014	2.50	PASS
				-10.00	- 2.803 8	- 3.390 3	- 3.962 5	-0.0015	-0.0018	-0.0021	2.50	PASS
				0.00	- 4.649 2	- 2.689 4	- 4.148 5	-0.0025	-0.0014	-0.0022	2.50	PASS
				10.00	- 4.420 3	- 3.805 2	- 3.504 8	-0.0024	-0.0020	-0.0018	2.50	PASS
				20.00	- 3.118 5	- 2.474 8	- 3.747 9	-0.0017	-0.0013	-0.0020	2.50	PASS
				30.00	- 2.889 6	- 3.147 1	- 4.706 4	-0.0016	-0.0017	-0.0025	2.50	PASS
				40.00	- 4.320 1	- 3.647 8	- 3.218 7	-0.0023	-0.0019	-0.0017	2.50	PASS
				50.00	- 3.318 8	- 4.134 2	- 4.720 7	-0.0018	-0.0022	-0.0025	2.50	PASS
16QAM	75	0	NV	-30.00	- 2.975 5	- 3.390 3	- 3.547 7	-0.0016	-0.0018	-0.0019	2.50	PASS
				-20.00	- 3.747 9	- 3.719 3	- 2.961 2	-0.0020	-0.0020	-0.0016	2.50	PASS
				-10.00	- 3.876 7	- 3.848 1	- 3.376 0	-0.0021	-0.0020	-0.0018	2.50	PASS
				0.00	- 3.719 3	- 2.861 0	- 3.976 8	-0.0020	-0.0015	-0.0021	2.50	PASS
				10.00	- 4.191 4	- 3.161 4	- 3.147 1	-0.0023	-0.0017	-0.0017	2.50	PASS
				20.00	- 3.733 6	- 4.735 0	- 4.048 3	-0.0020	-0.0025	-0.0021	2.50	PASS
				30.00	- 3.461 8	- 3.933 9	- 3.061 3	-0.0019	-0.0021	-0.0016	2.50	PASS
				40.00	- 4.491 8	- 3.418 9	- 4.177 1	-0.0024	-0.0018	-0.0022	2.50	PASS
				50.00	- 2.989 8	- 3.504 8	- 3.447 5	-0.0016	-0.0019	-0.0018	2.50	PASS

Test Band: 2 20MHz 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	100	0	NT	LV	0.886 9	- 3.304 5	- 2.031 3	0.0005	-0.0018	-0.0011	2.50	PASS
				NV	0.615 1	- 2.532 0	- 1.359 0	0.0003	-0.0013	-0.0007	2.50	PASS
				HV	- 0.014 3	- 4.363 1	- 3.161 4	0.0000	-0.0023	-0.0017	2.50	PASS
16QAM	100	0	NT	LV	1.101 5	- 4.191 4	- 2.574 9	0.0006	-0.0022	-0.0014	2.50	PASS
				NV	0.729 6	- 4.091 3	- 2.532 0	0.0004	-0.0022	-0.0013	2.50	PASS
				HV	0.100 1	- 2.417 6	- 3.290 2	0.0001	-0.0013	-0.0017	2.50	PASS

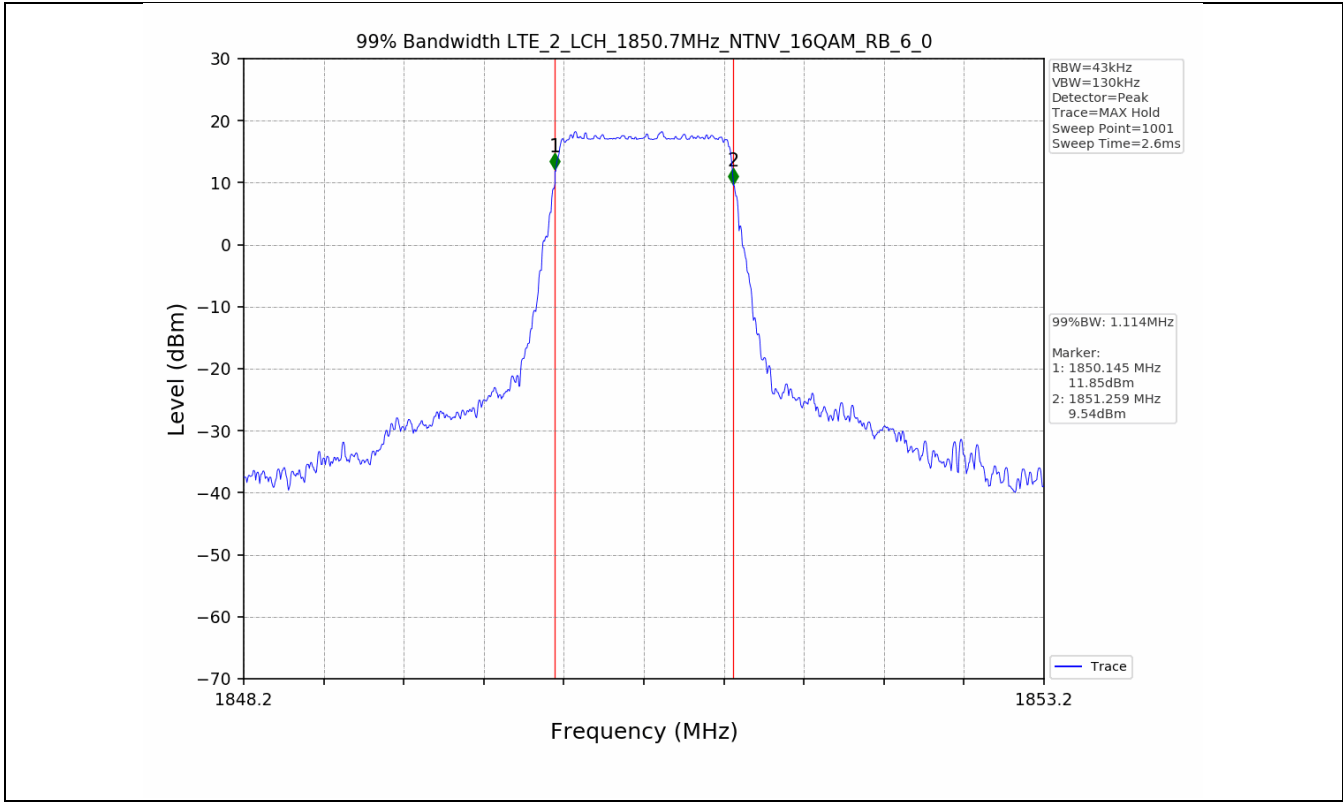
Test Band: 2 20MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NV	-30.00	0.486 4	- 2.975 5	- 2.489 1	-0.0003	-0.0016	-0.0013	2.50	PASS
				-20.00	0.586 5	- 3.132 8	- 2.002 7	0.0003	-0.0017	-0.0011	2.50	PASS
				-10.00	0.915 5	- 3.404 6	- 2.760 9	0.0005	-0.0018	-0.0015	2.50	PASS
				0.00	0.486 4	- 2.832 4	- 2.274 5	0.0003	-0.0015	-0.0012	2.50	PASS
				10.00	0.085 8	- 2.875 3	- 2.646 4	0.0000	-0.0015	-0.0014	2.50	PASS
				20.00	1.273 2	- 4.577 6	- 2.446 2	0.0007	-0.0024	-0.0013	2.50	PASS
				30.00	1.072 9	- 3.218 7	- 2.646 4	0.0006	-0.0017	-0.0014	2.50	PASS
				40.00	0.357 6	- 3.018 4	- 3.004 1	0.0002	-0.0016	-0.0016	2.50	PASS
				50.00	0.543 6	- 2.832 4	- 3.032 7	0.0003	-0.0015	-0.0016	2.50	PASS
16QAM	100	0	NV	-30.00	0.858 3	- 4.005 4	- 2.131 5	0.0005	-0.0021	-0.0011	2.50	PASS
				-20.00	0.629 4	- 3.476 1	- 2.946 9	0.0003	-0.0018	-0.0016	2.50	PASS
				-10.00	-	-	-	-0.0003	-0.0017	-0.0017	2.50	PASS

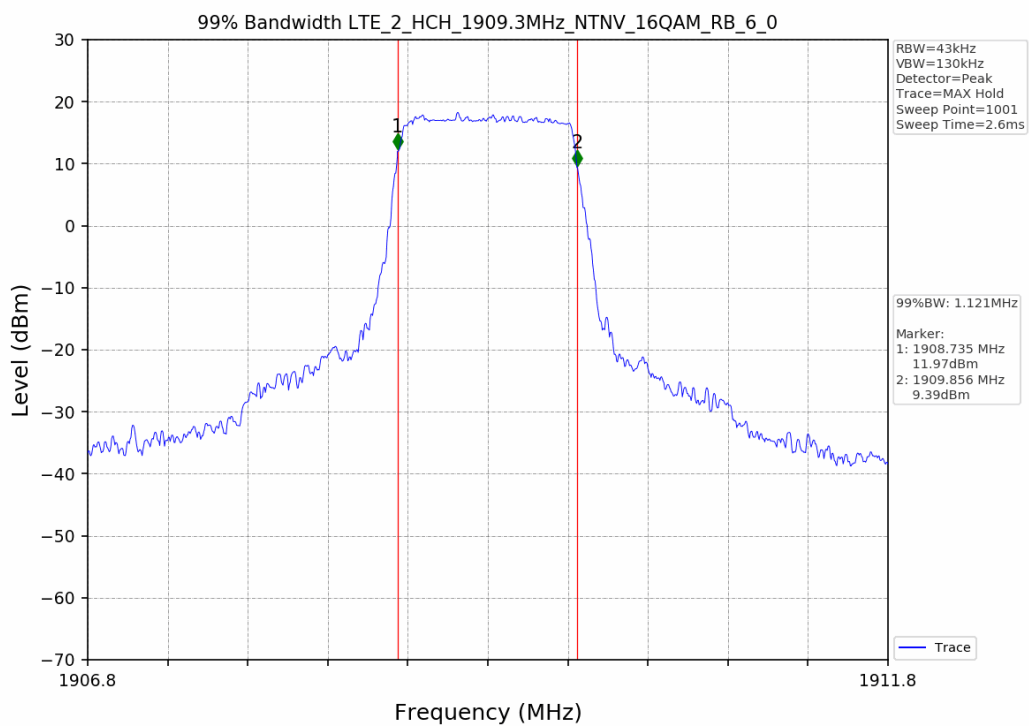
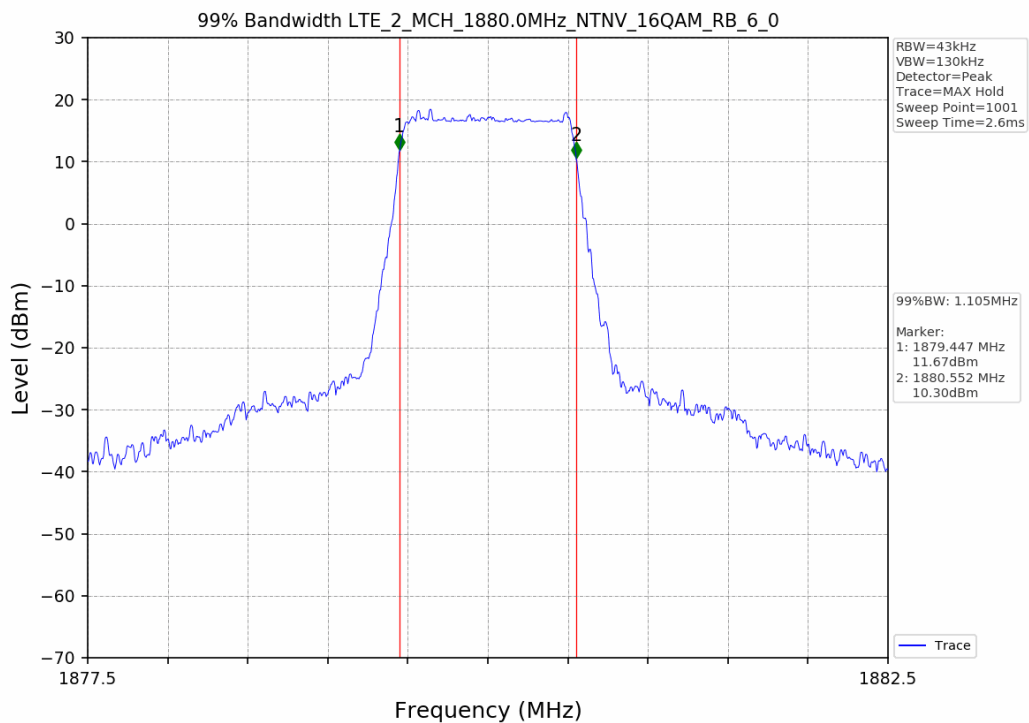
					0.500 7	3.118 5	3.247 3					
				0.00	0.028 6	- 2.889 6	- 2.746 6	0.0000	-0.0015	-0.0014	2.50	PASS
				10.00	0.357 6	- 3.776 6	- 2.460 5	0.0002	-0.0020	-0.0013	2.50	PASS
				20.00	0.543 6	- 3.347 4	- 3.848 1	0.0003	-0.0018	-0.0020	2.50	PASS
				30.00	0.829 7	- 4.377 4	- 2.818 1	0.0004	-0.0023	-0.0015	2.50	PASS
				40.00	0.100 1	- 2.431 9	- 2.903 9	0.0001	-0.0013	-0.0015	2.50	PASS
				50.00	- 0.114 4	- 3.719 3	- 3.747 9	-0.0001	-0.0020	-0.0020	2.50	PASS

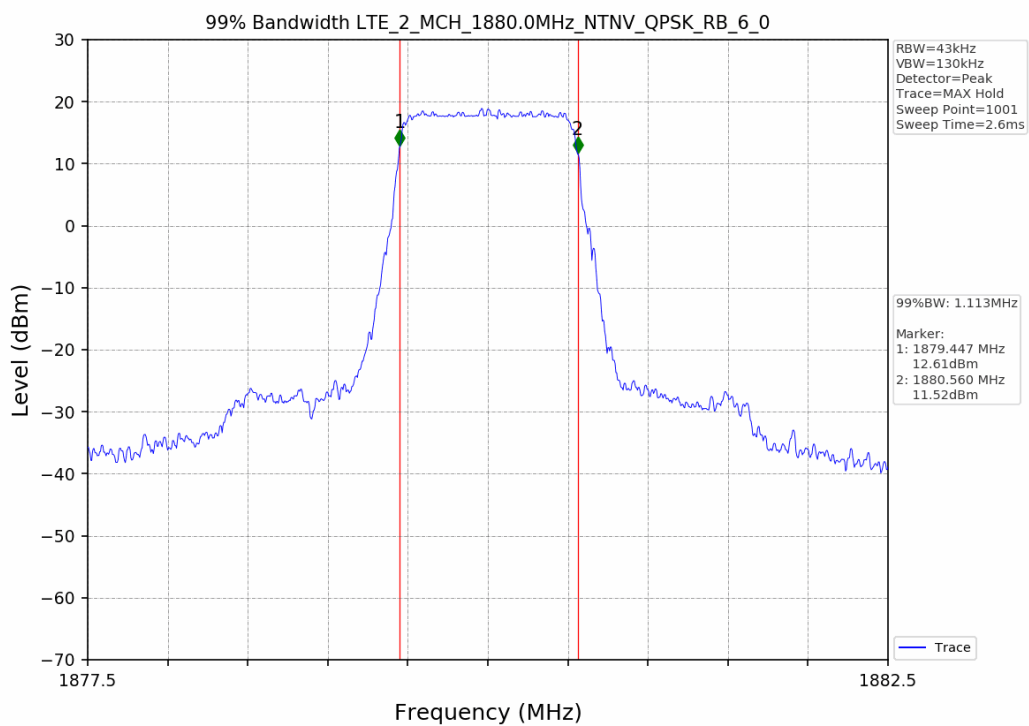
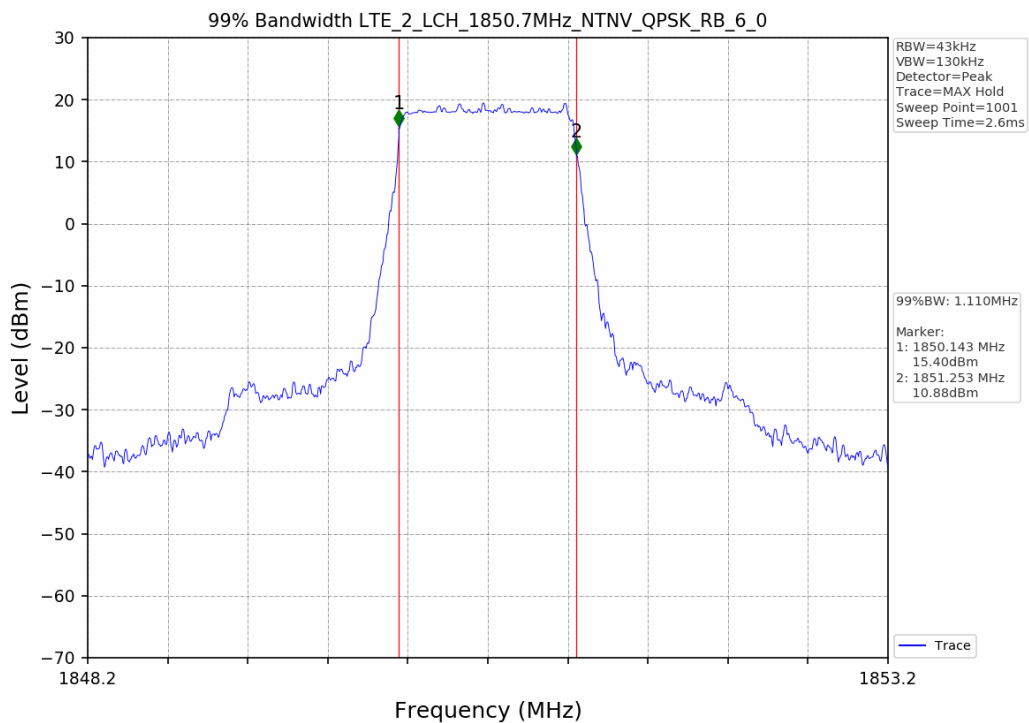
D3. 99% & 26dB Bandwidth

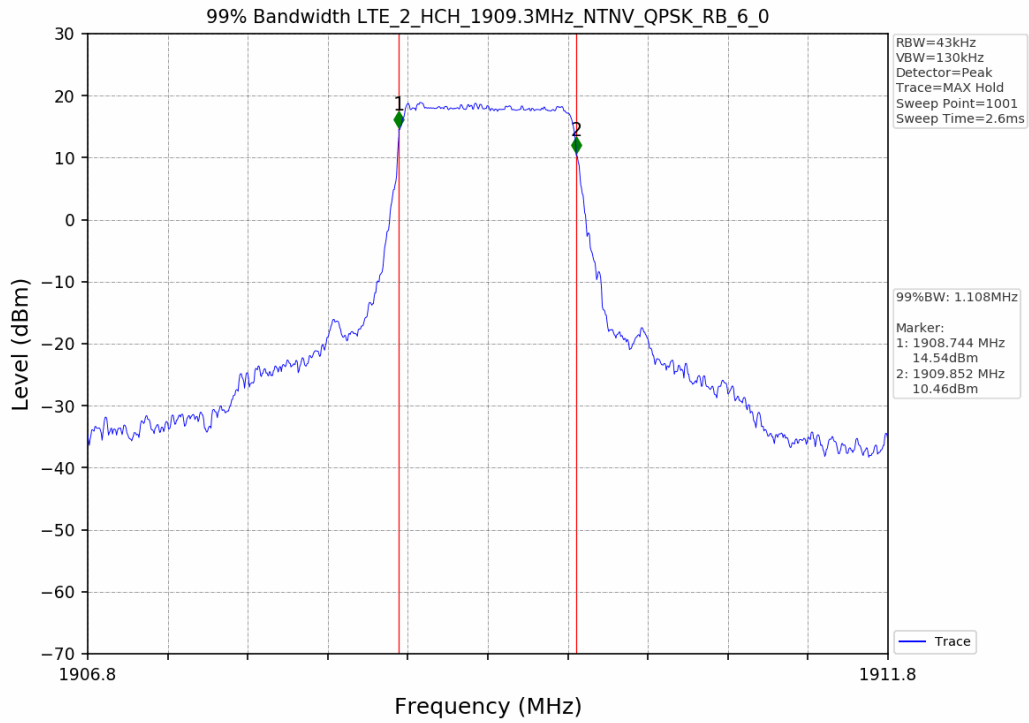
D3.1 Test Result

Test Band: 2 1.4MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.110	1.113	1.108	N/A	PASS
16QAM	6	0	1.114	1.105	1.121	N/A	PASS

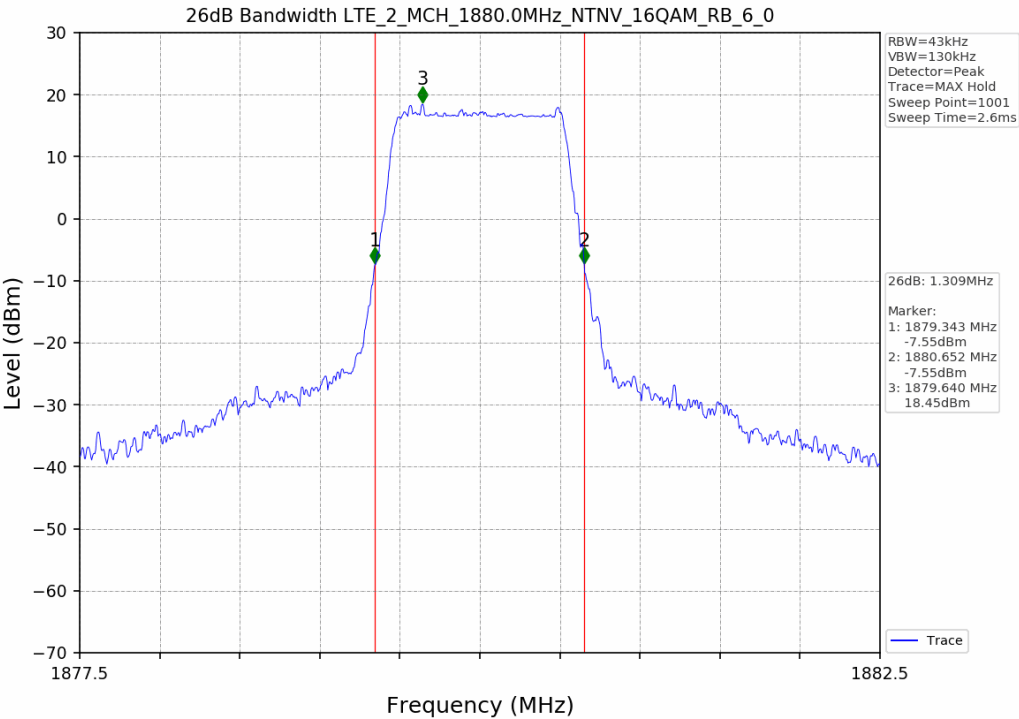
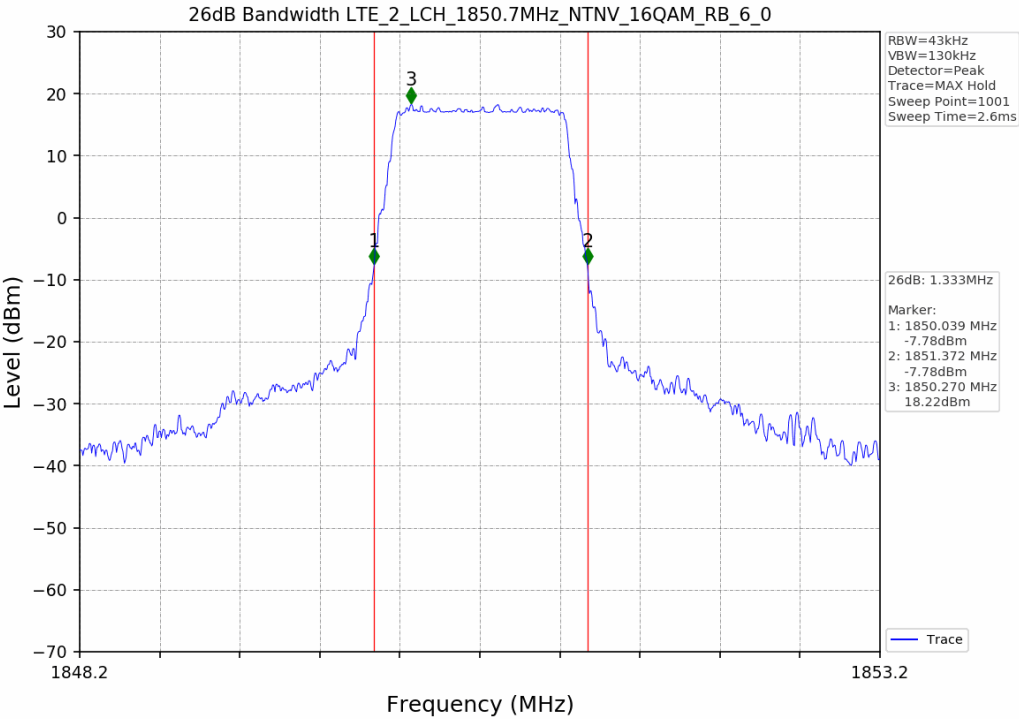


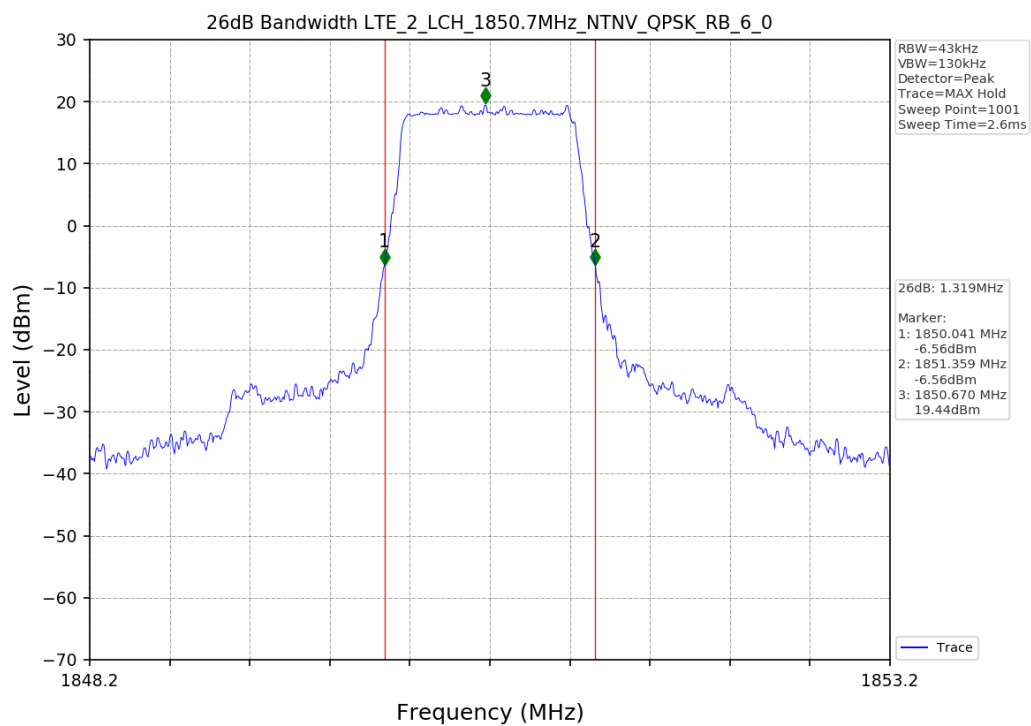
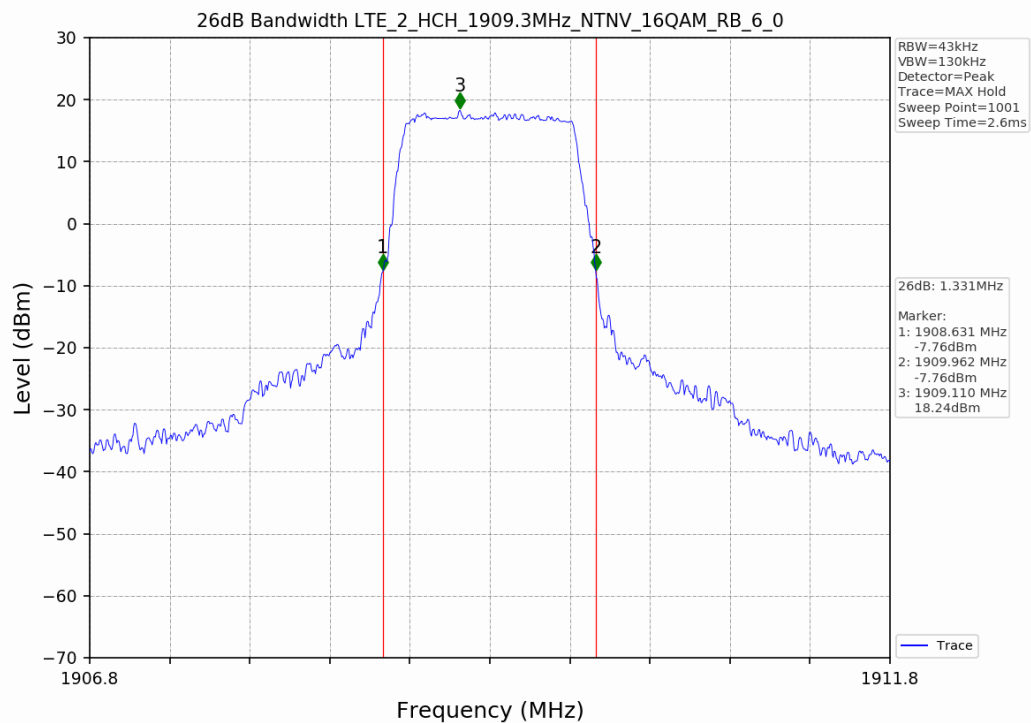


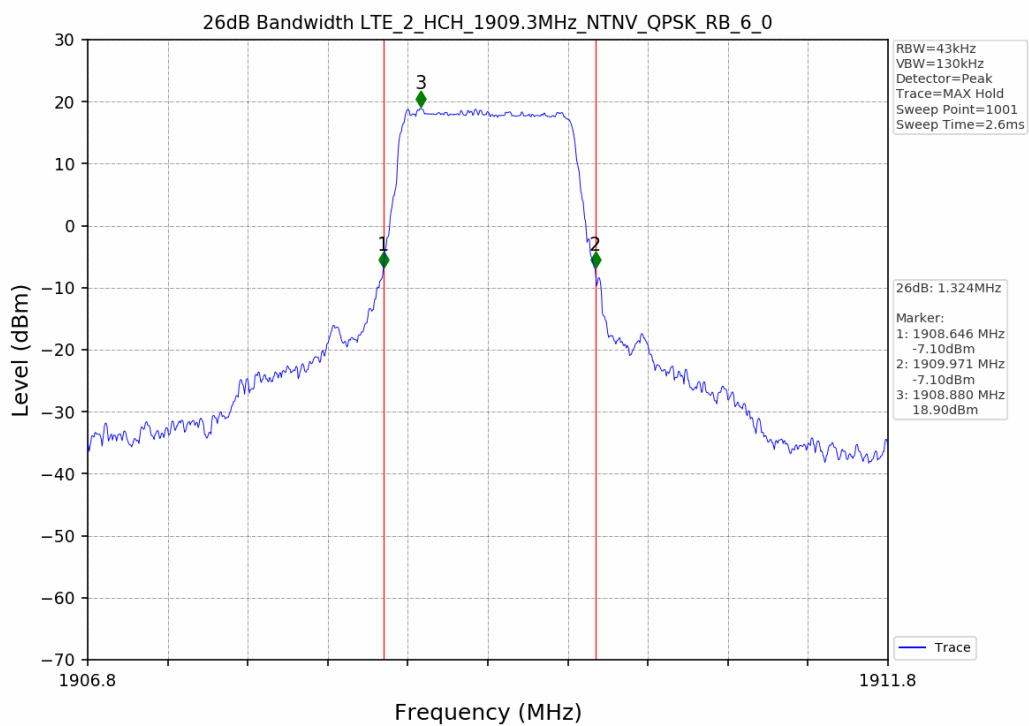
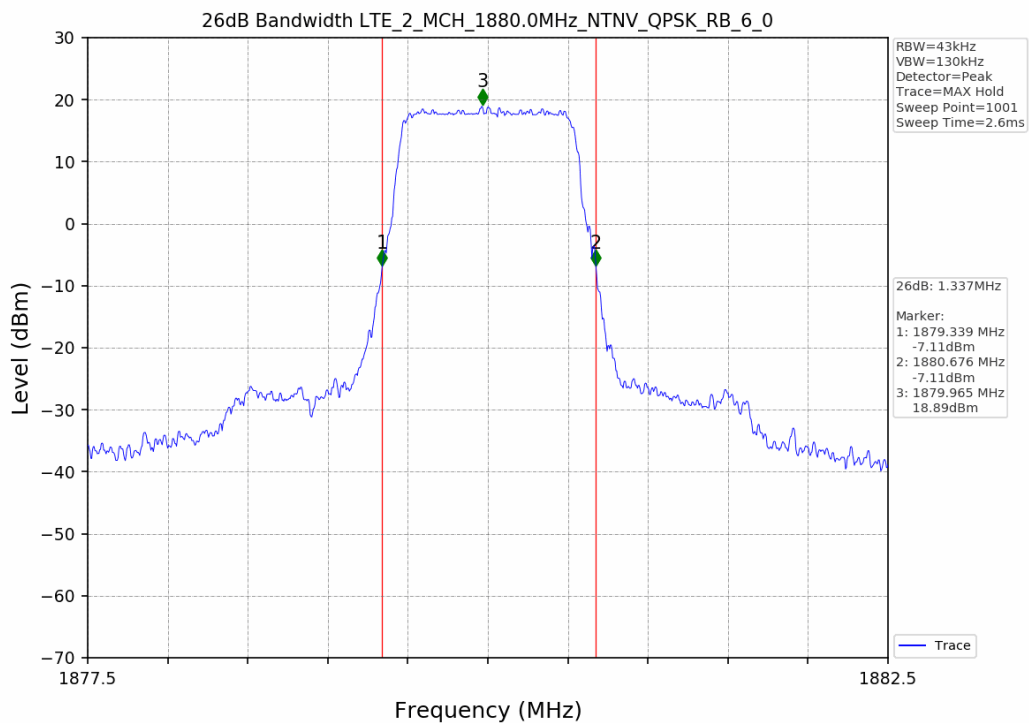




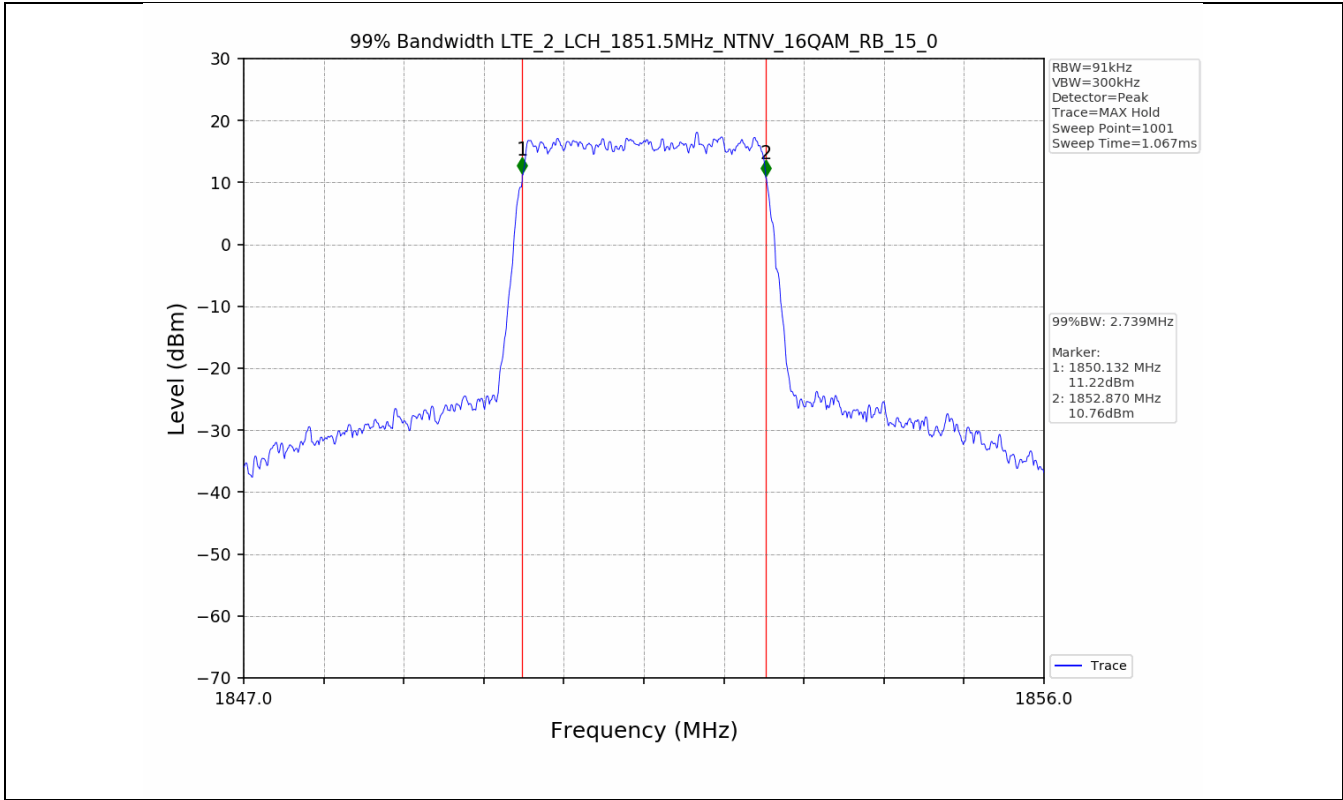
Test Band: 2_1.4MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.319	1.337	1.324	N/A	PASS
16QAM	6	0	1.333	1.309	1.331	N/A	PASS

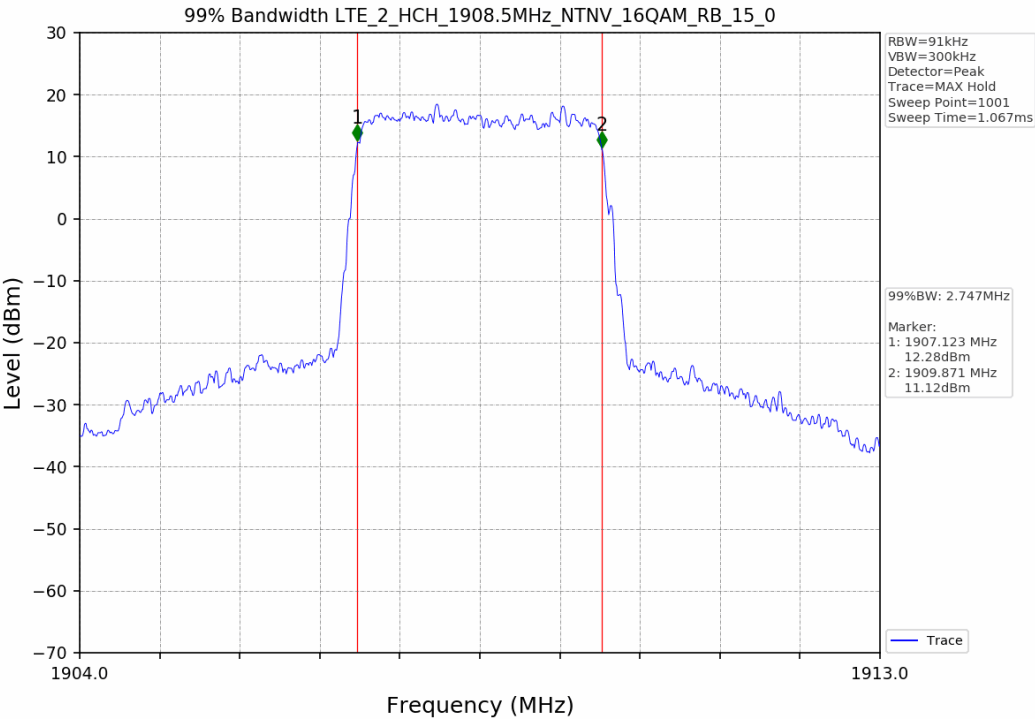
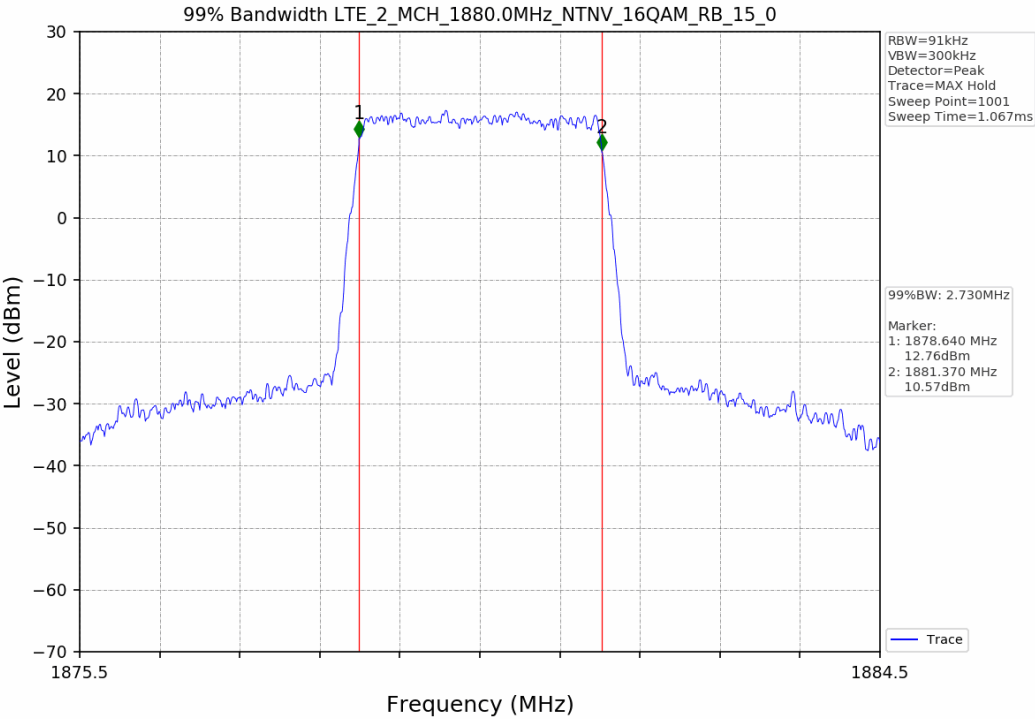


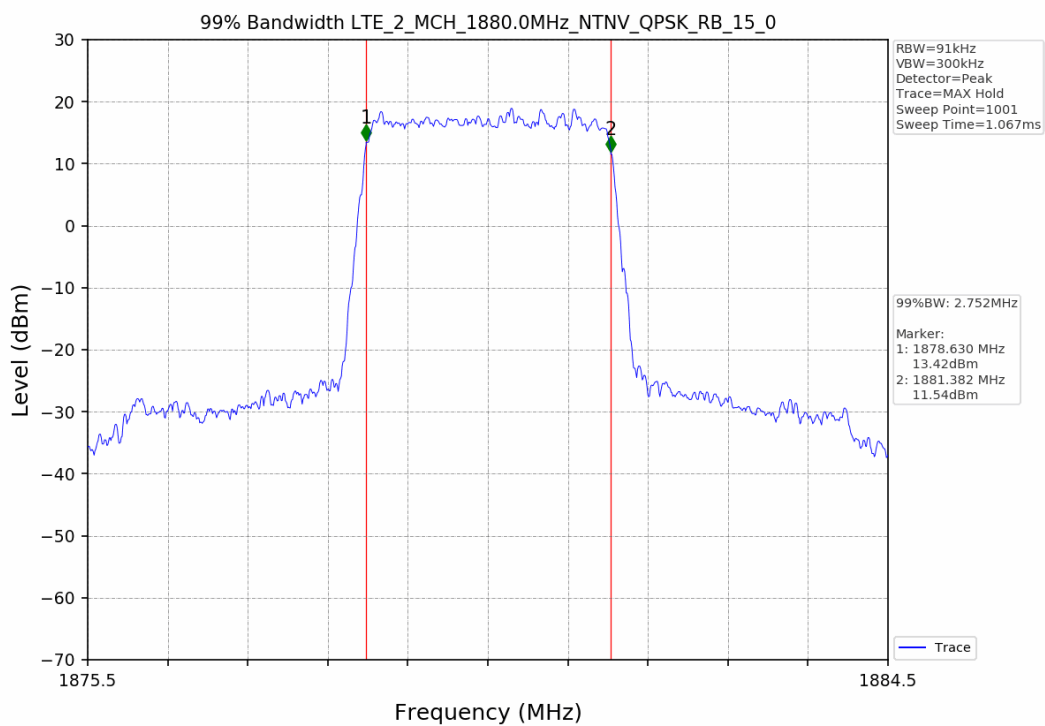
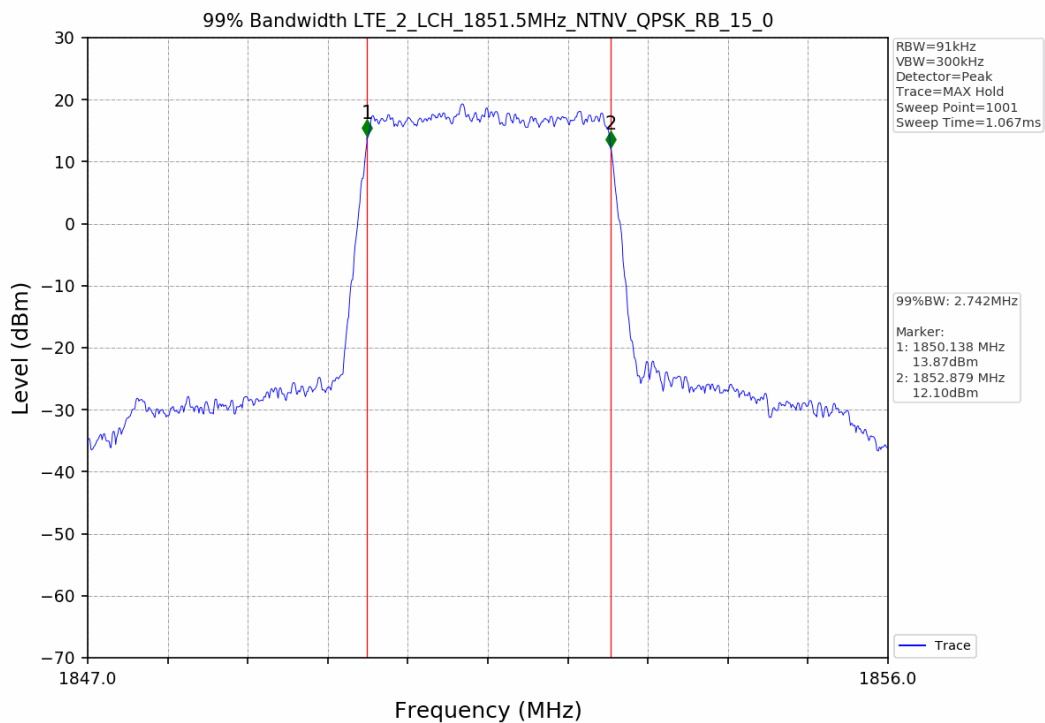


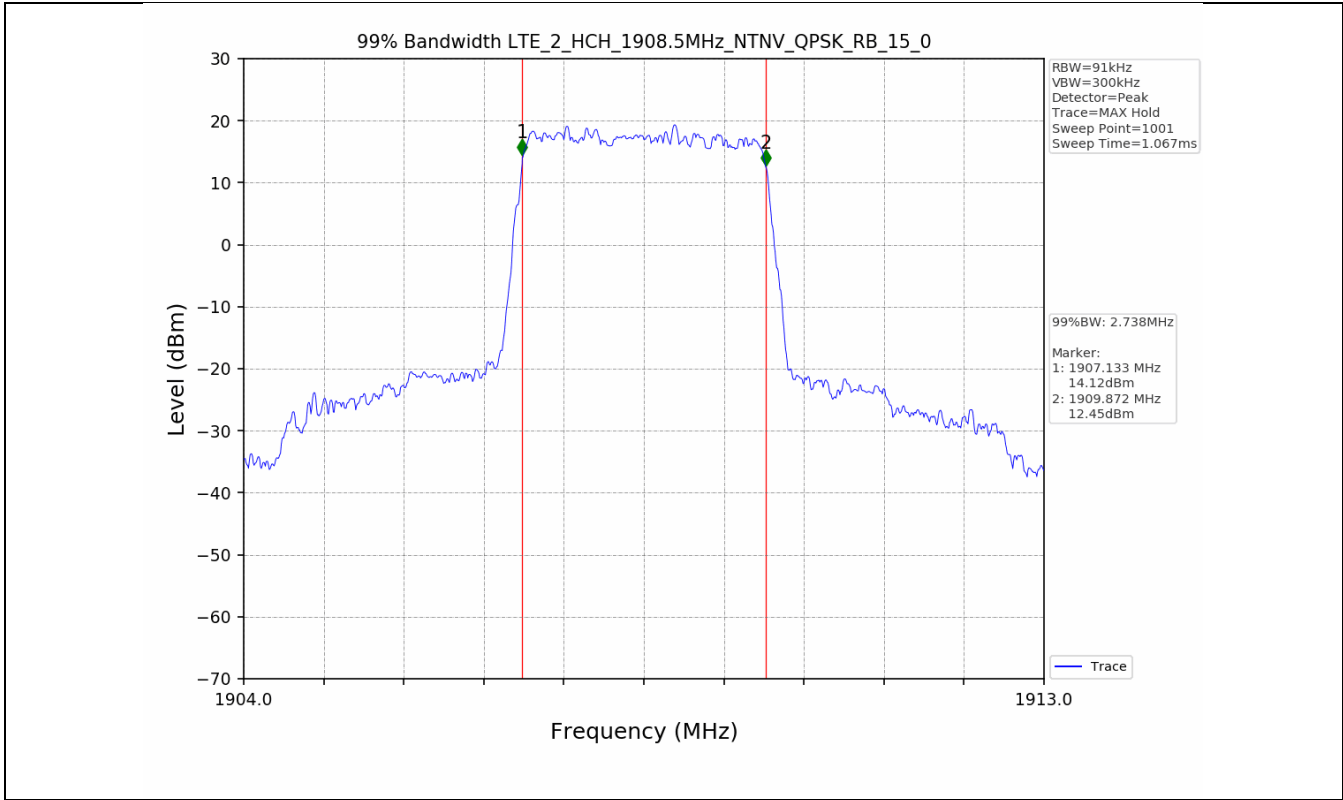


Test Band: 2_3MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.742	2.752	2.738	N/A	PASS
16QAM	15	0	2.739	2.730	2.747	N/A	PASS

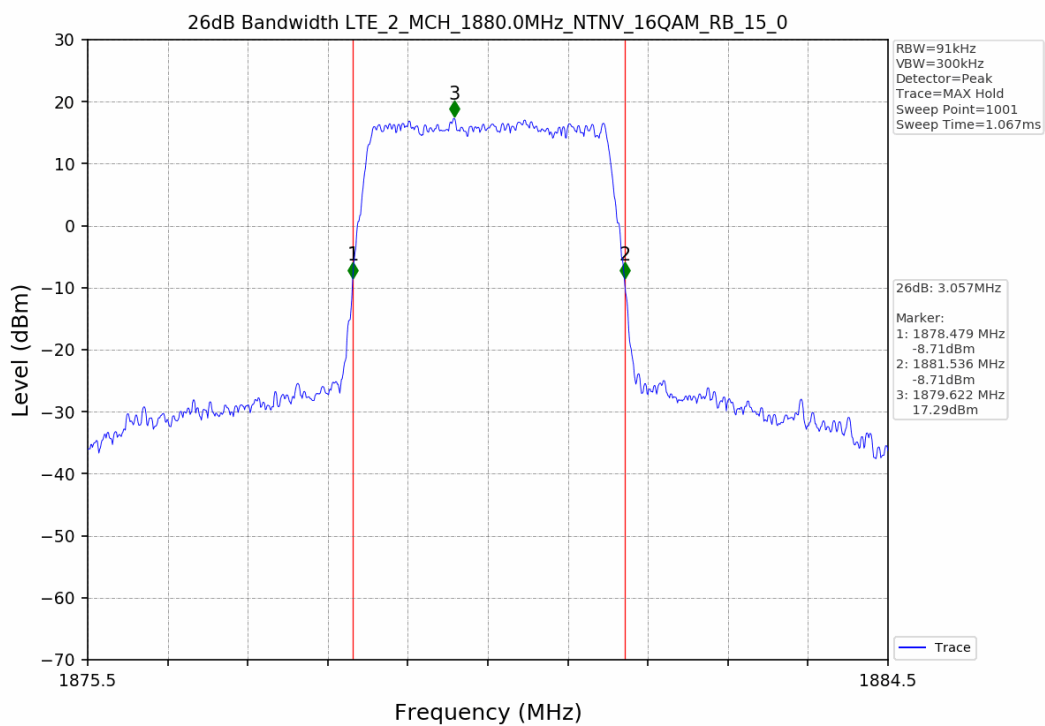
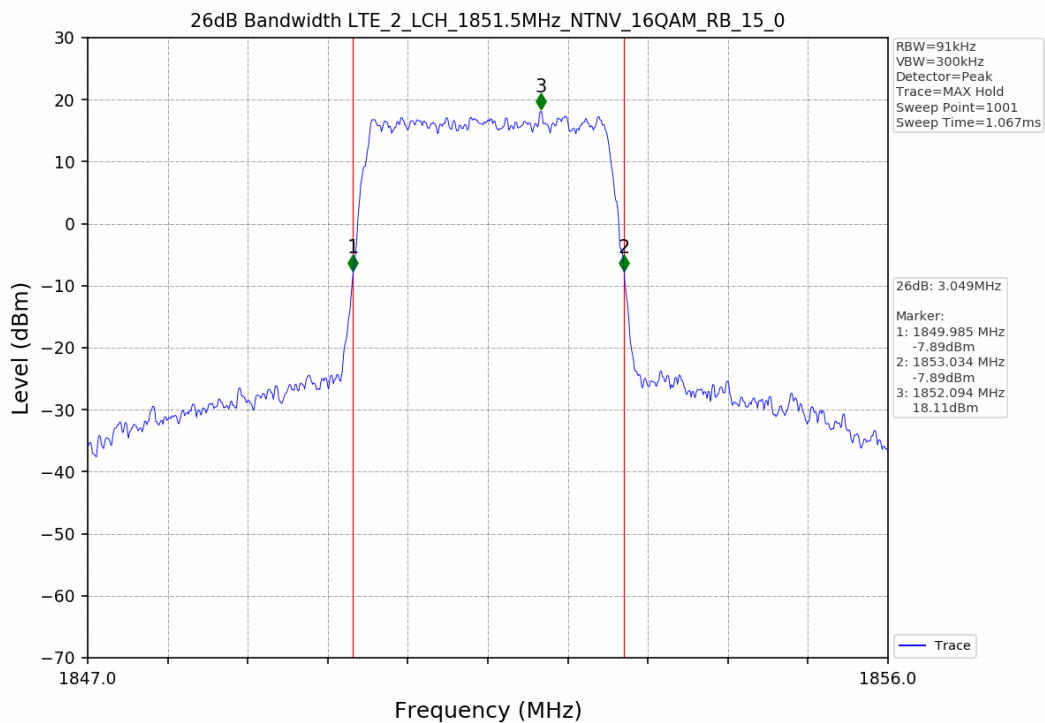


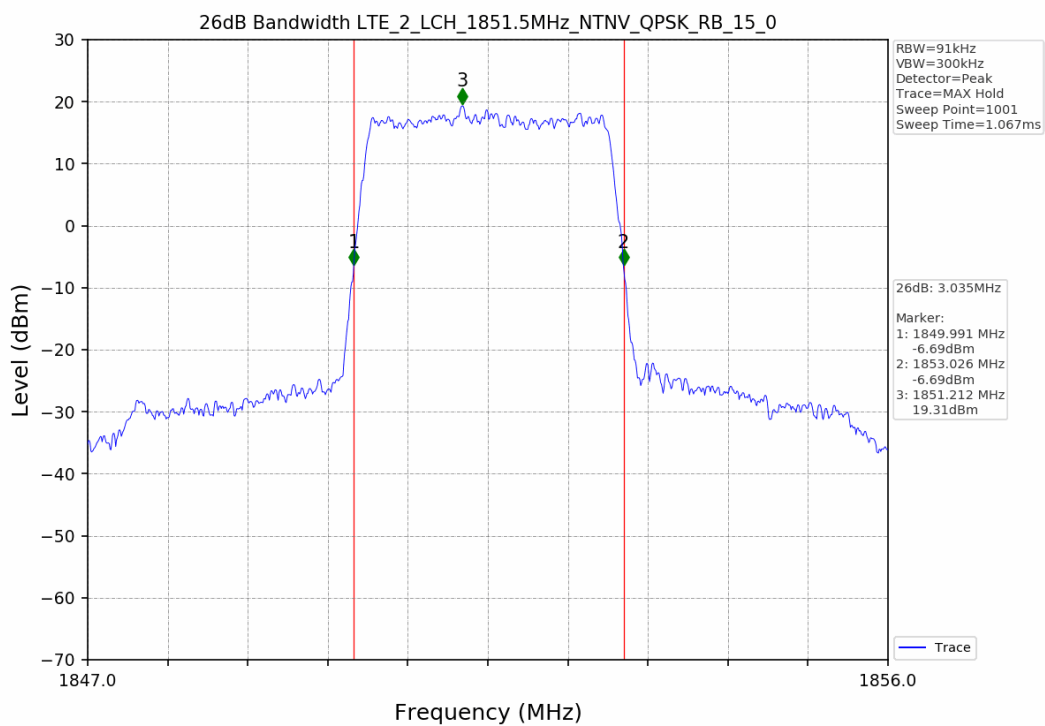
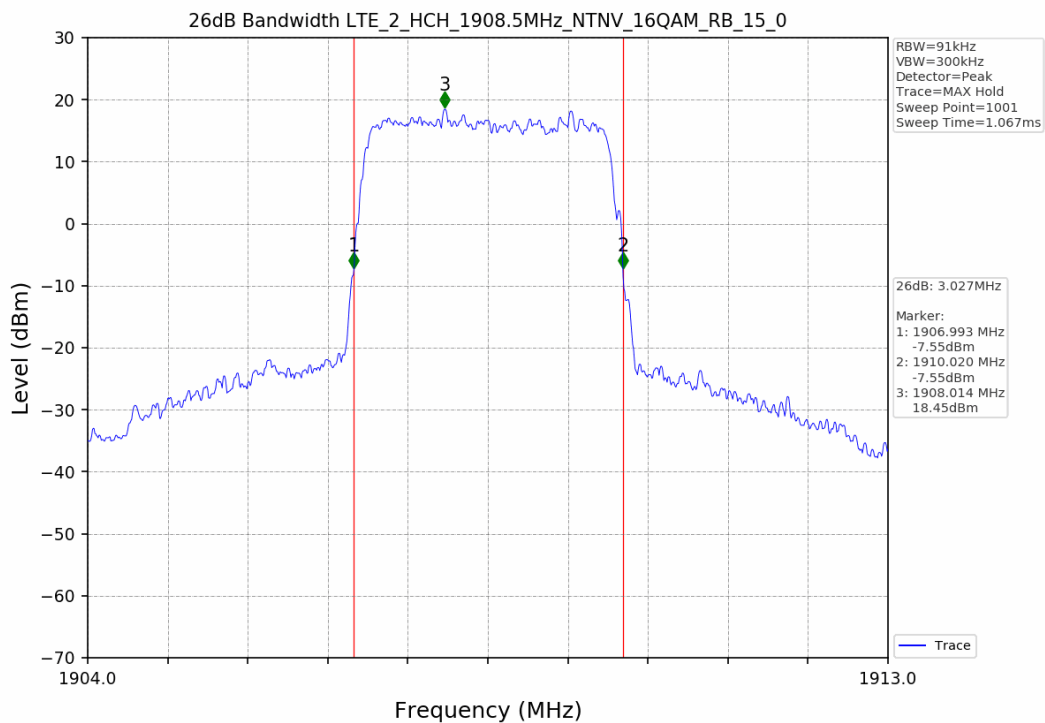


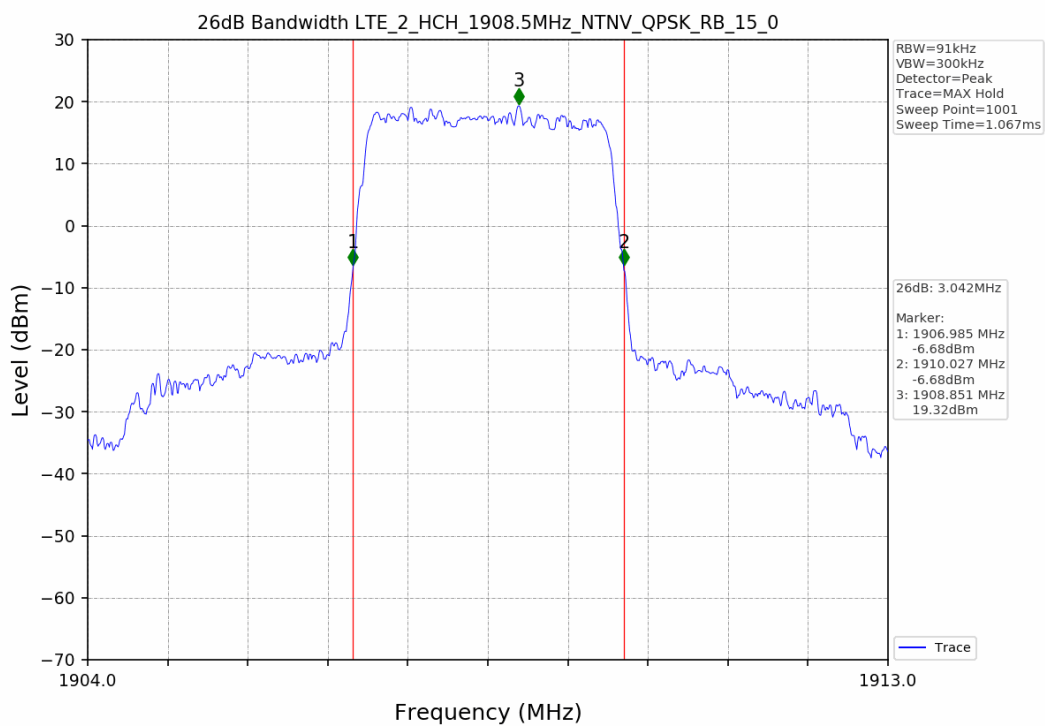
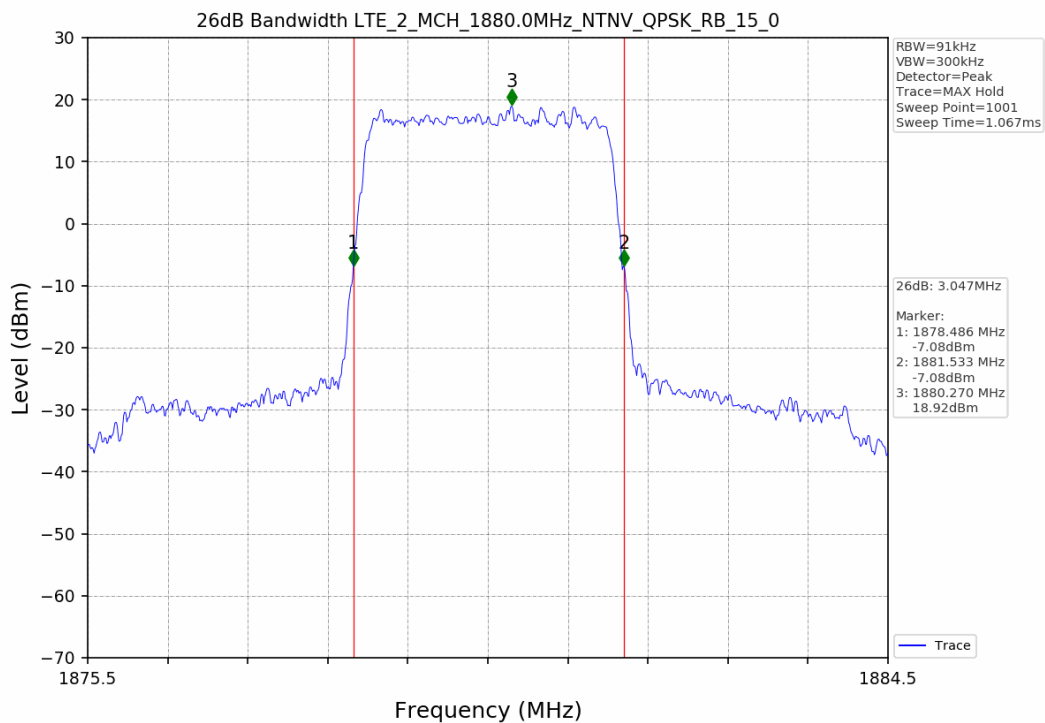




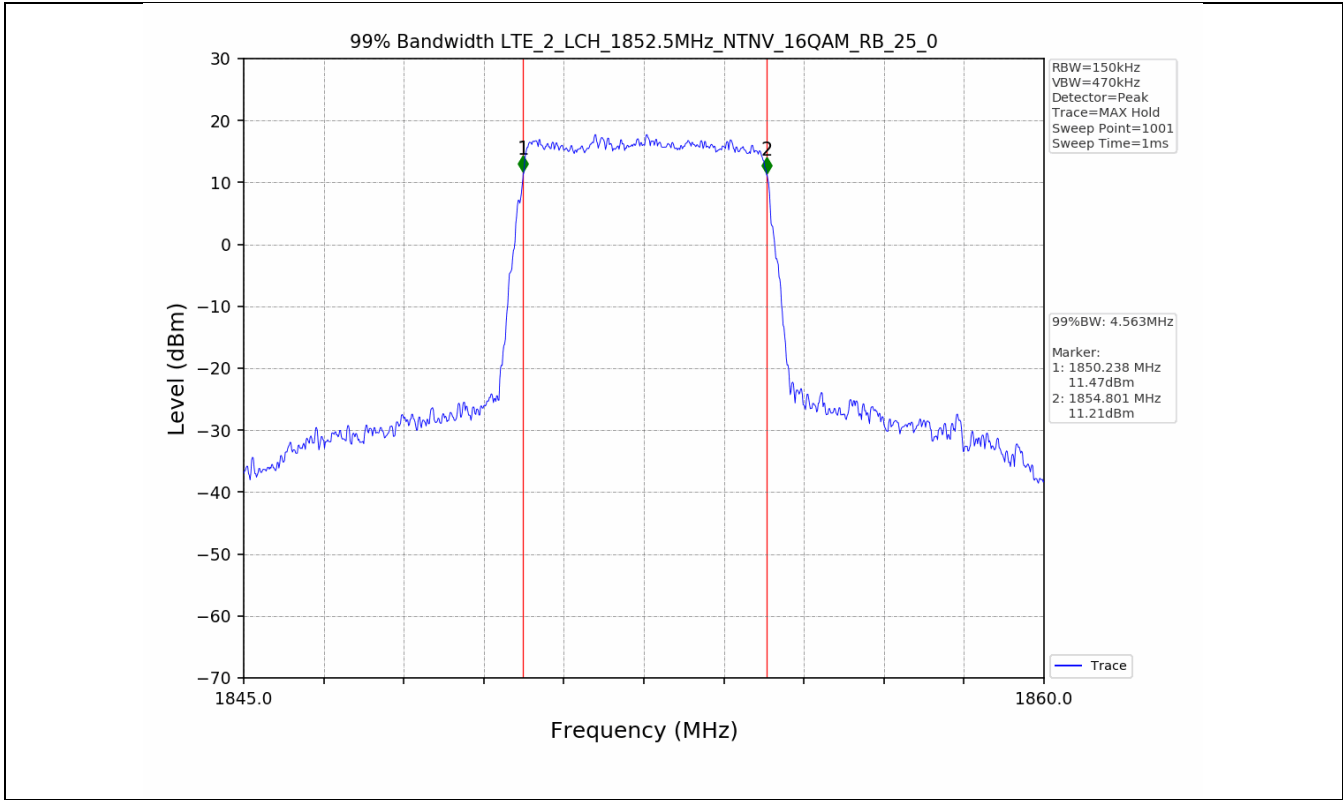
Test Band: 2_3MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	3.035	3.047	3.042	N/A	PASS
16QAM	15	0	3.049	3.057	3.027	N/A	PASS

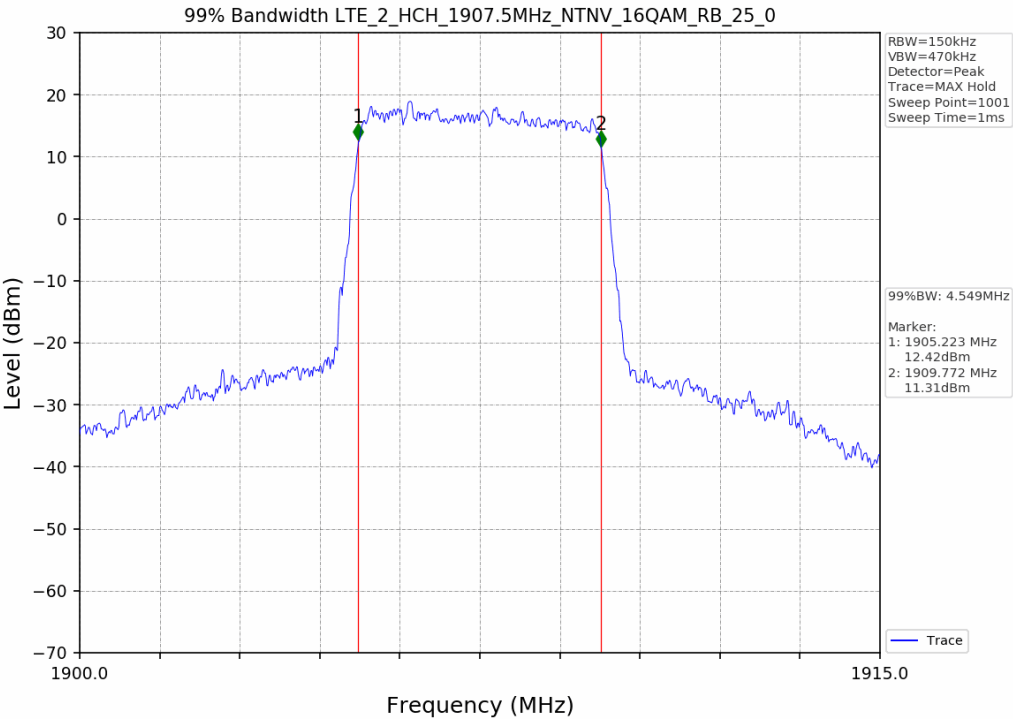
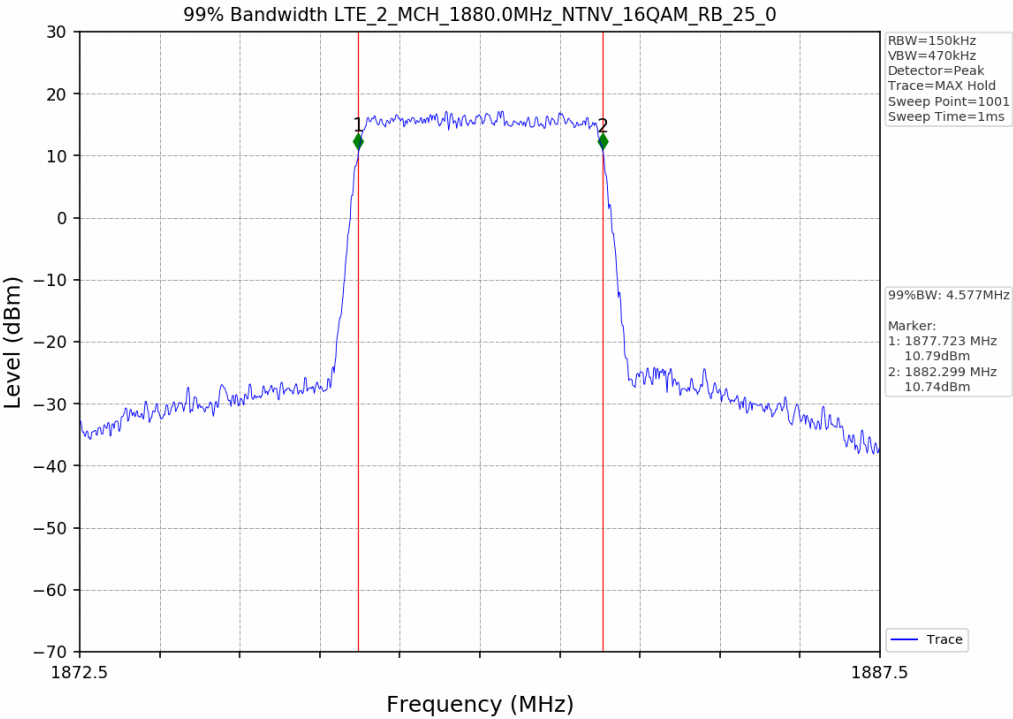


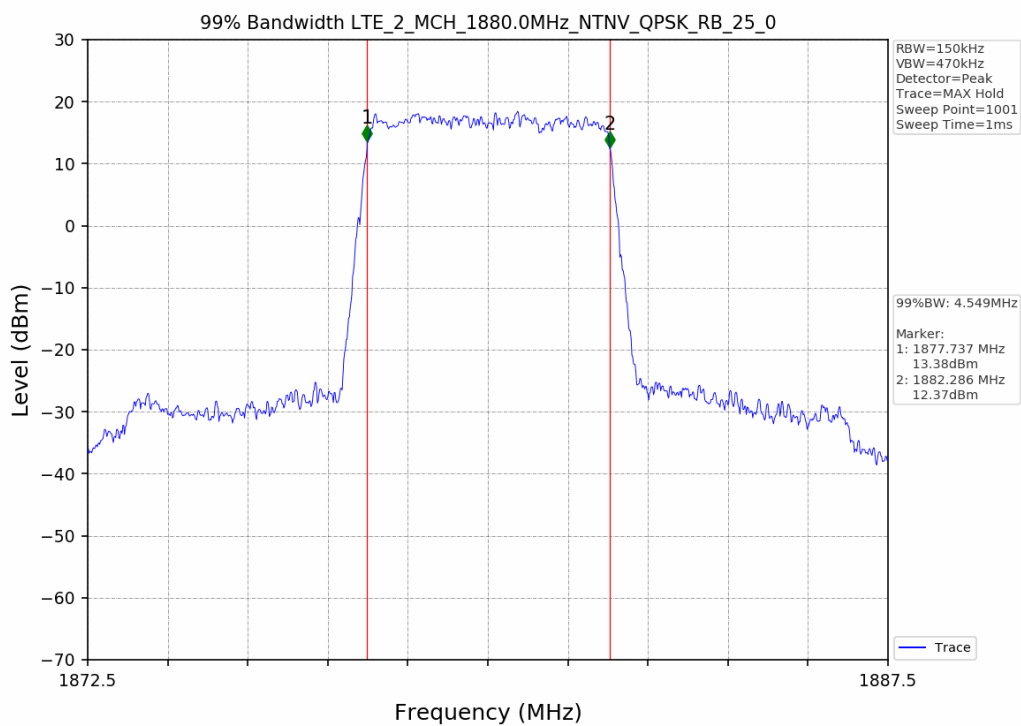
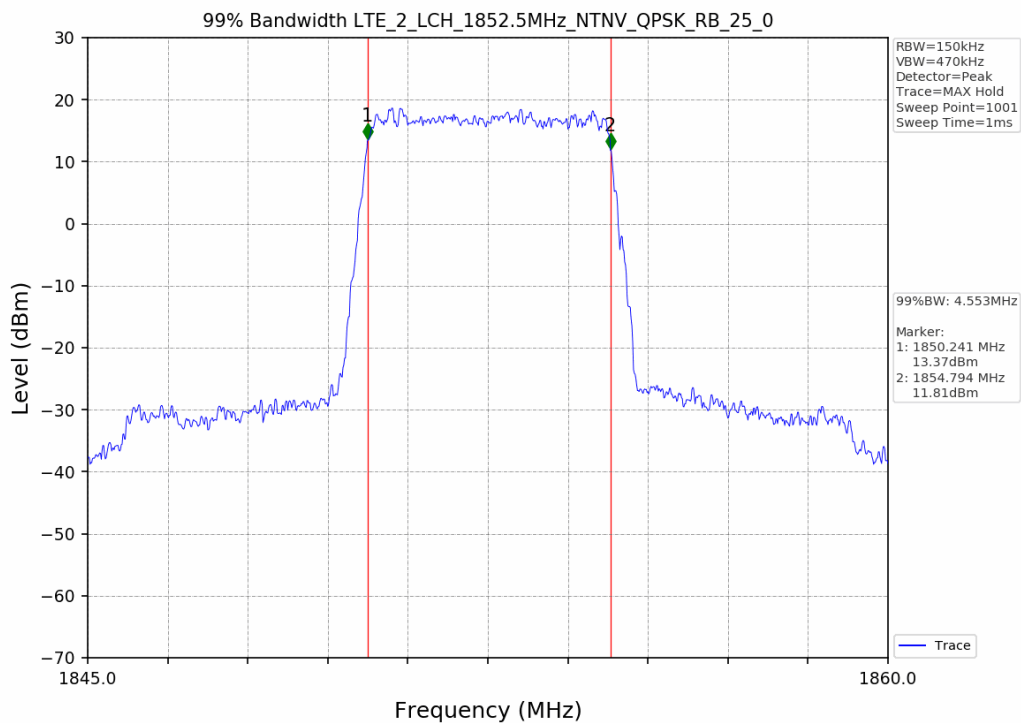


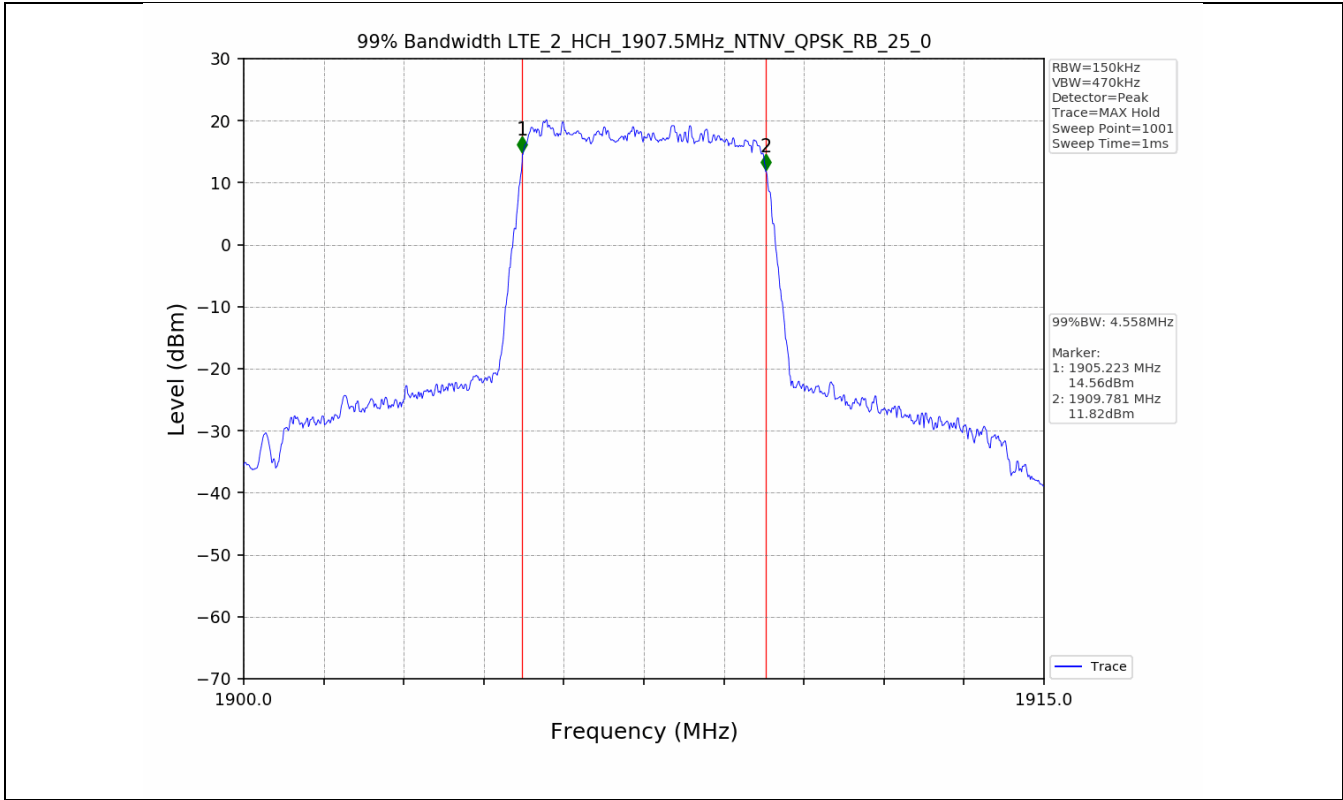


Test Band: 2_5MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	4.553	4.549	4.558	N/A	PASS
16QAM	25	0	4.563	4.577	4.549	N/A	PASS

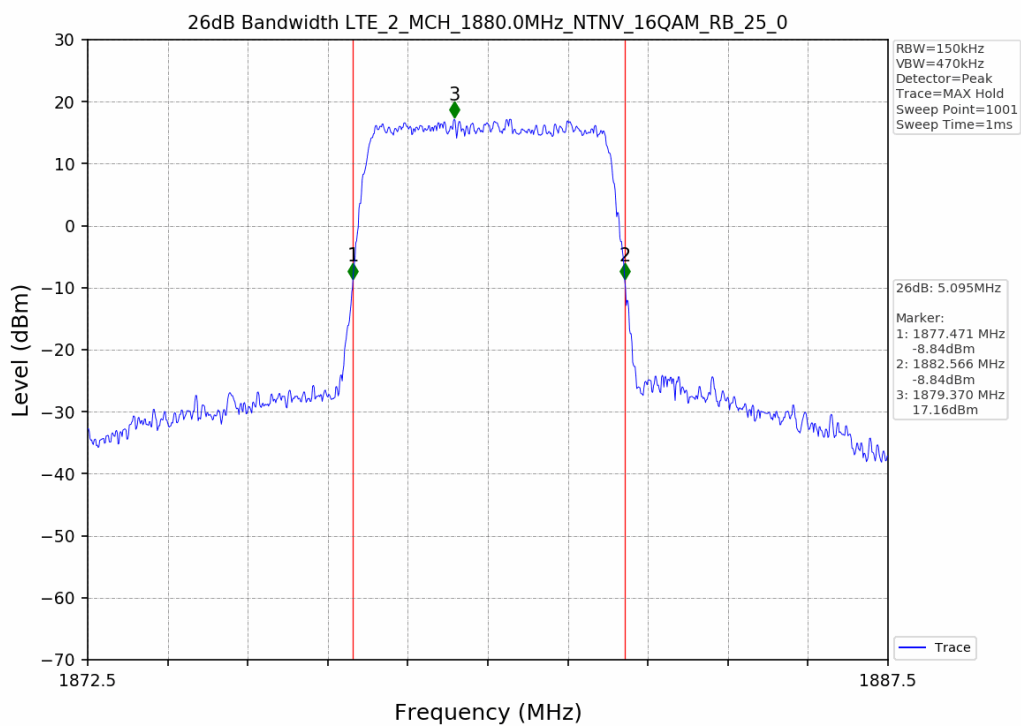
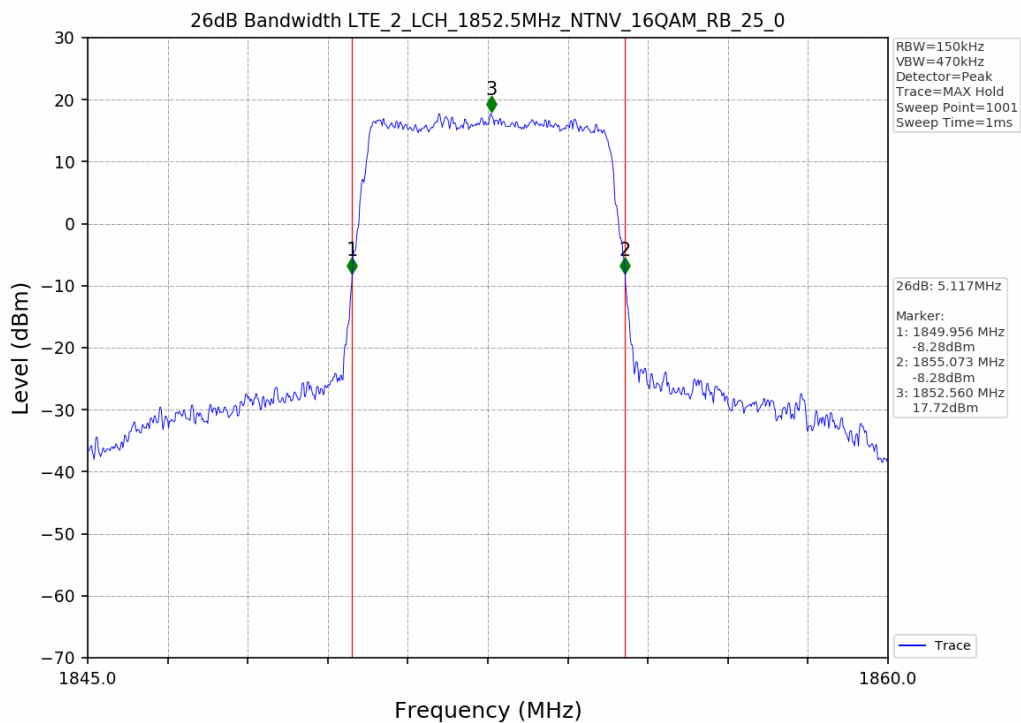


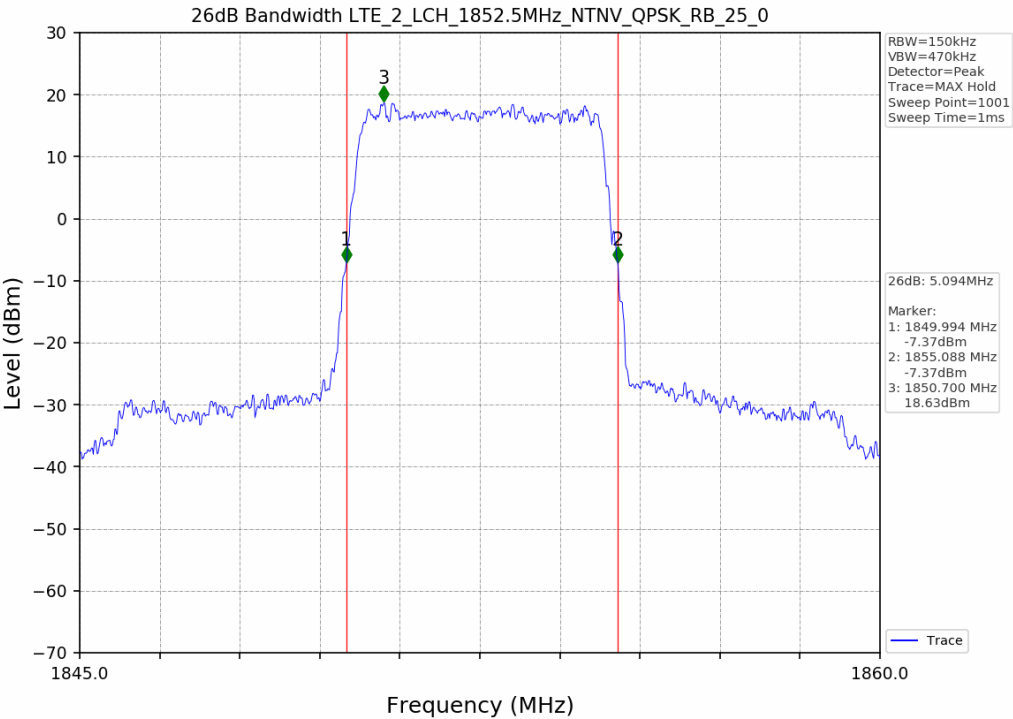
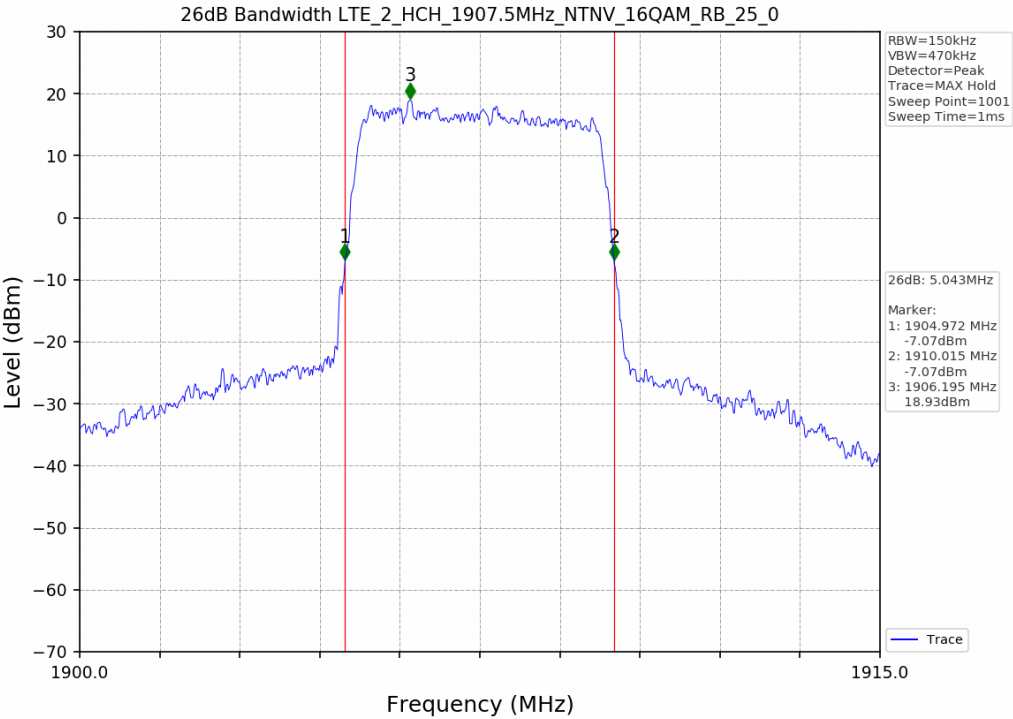


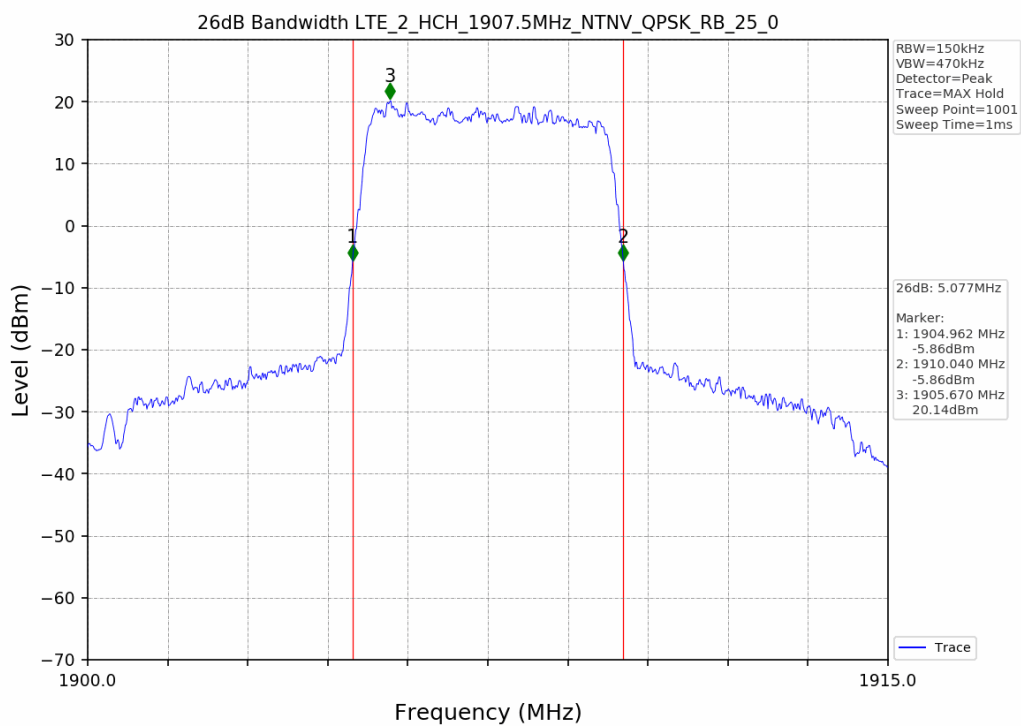
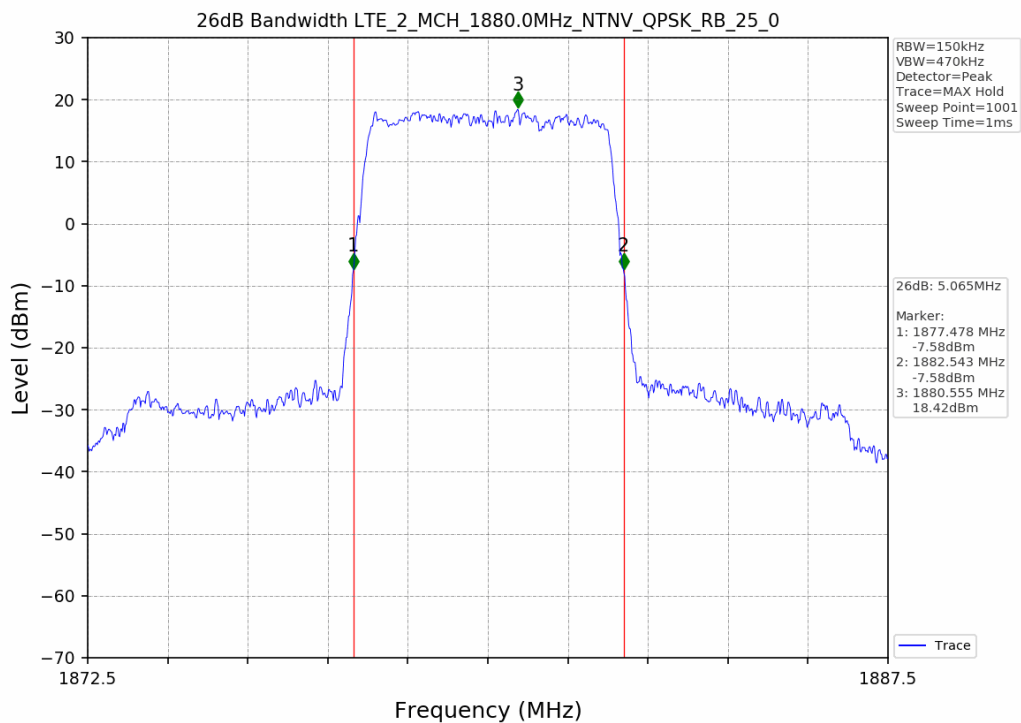


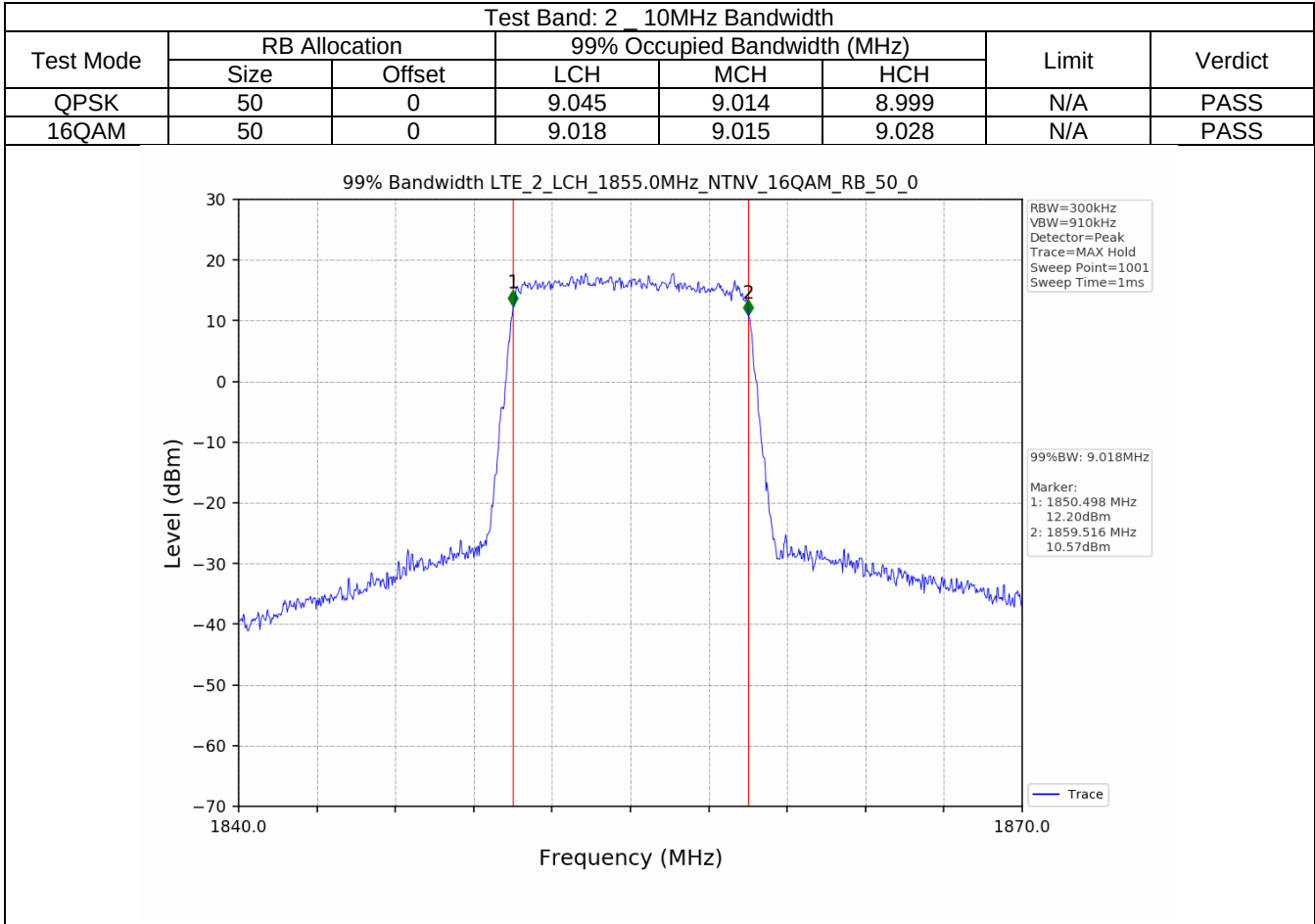


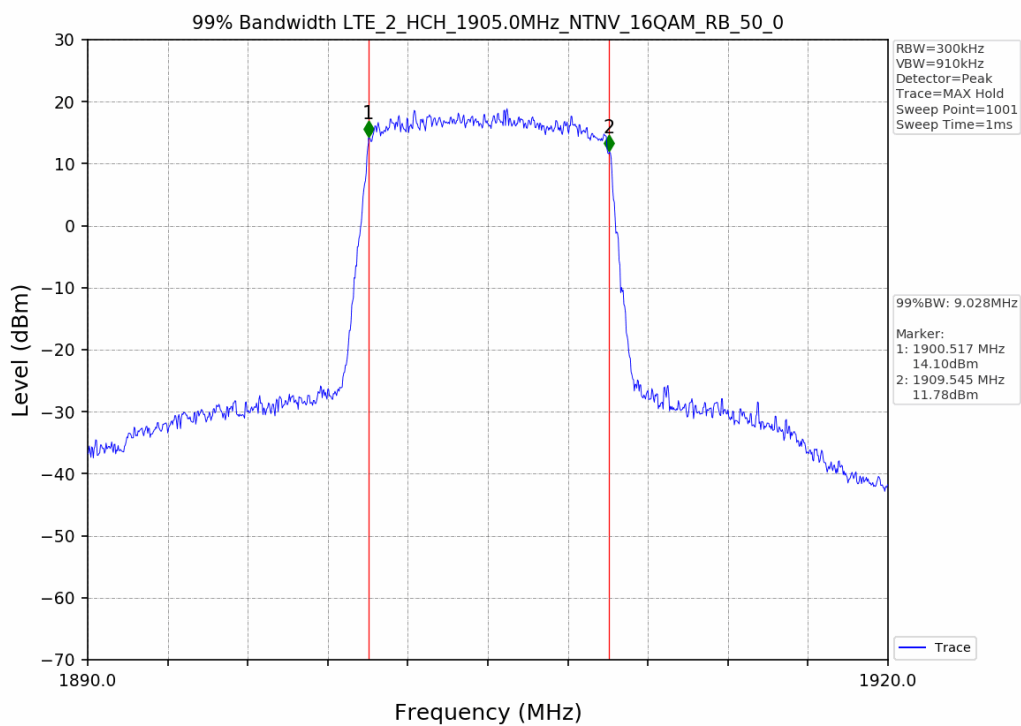
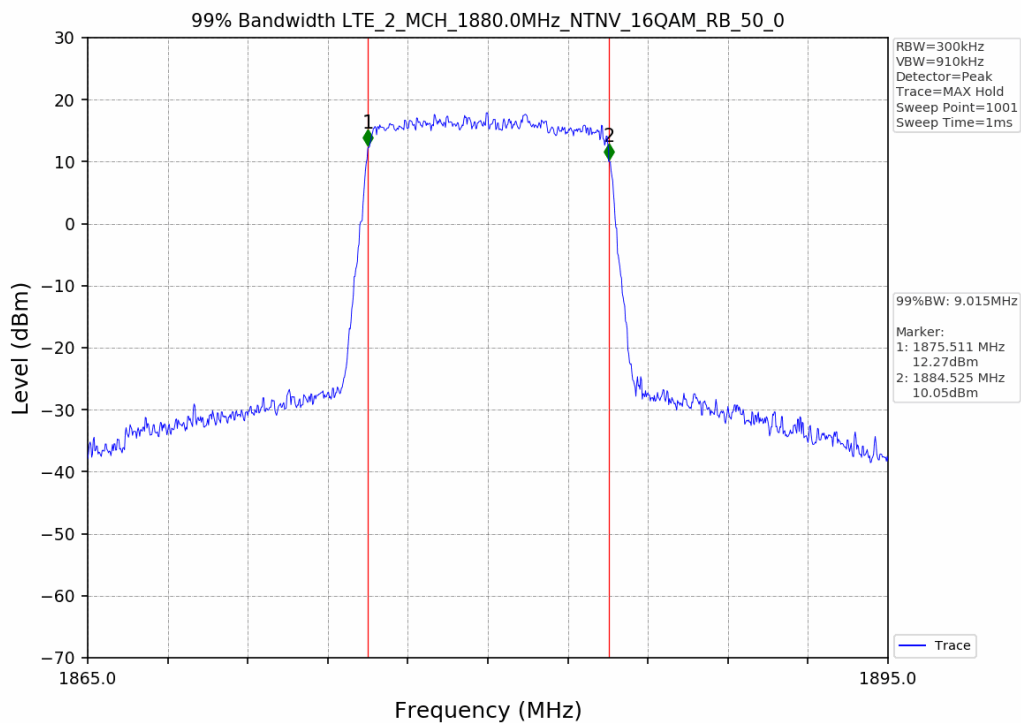
Test Band: 2_5MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	5.094	5.065	5.077	N/A	PASS
16QAM	25	0	5.117	5.095	5.043	N/A	PASS

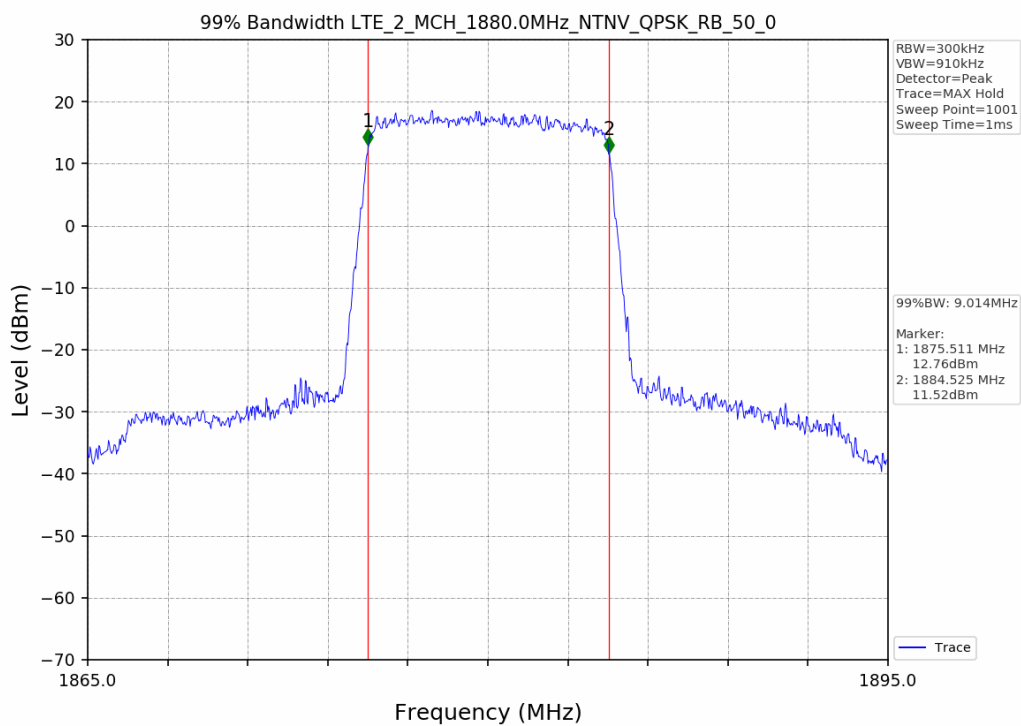
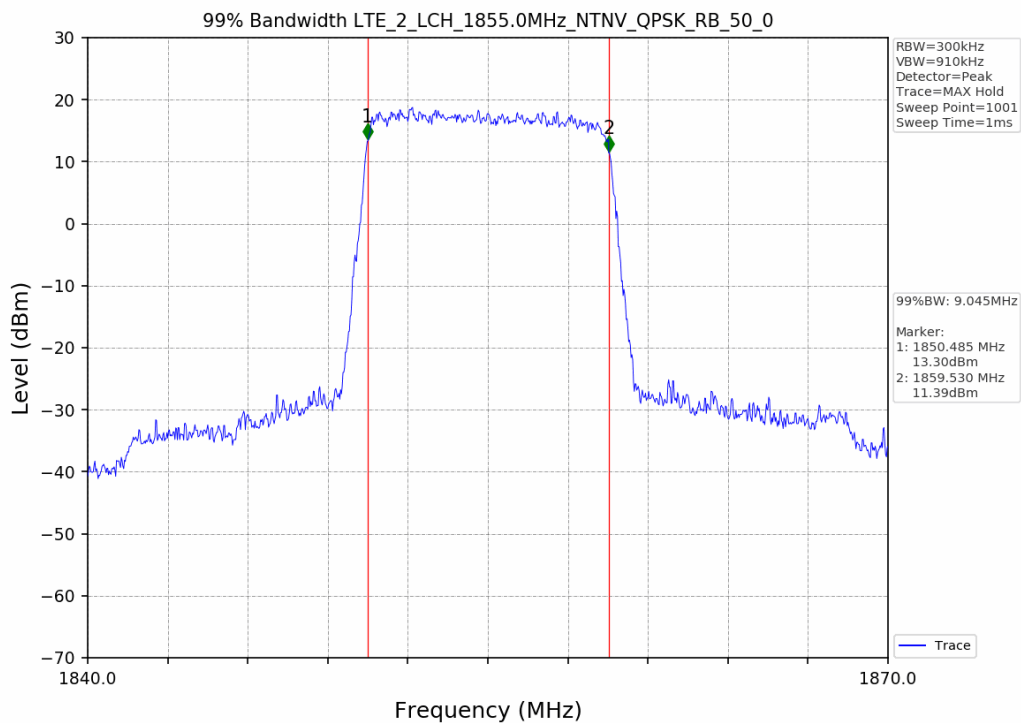


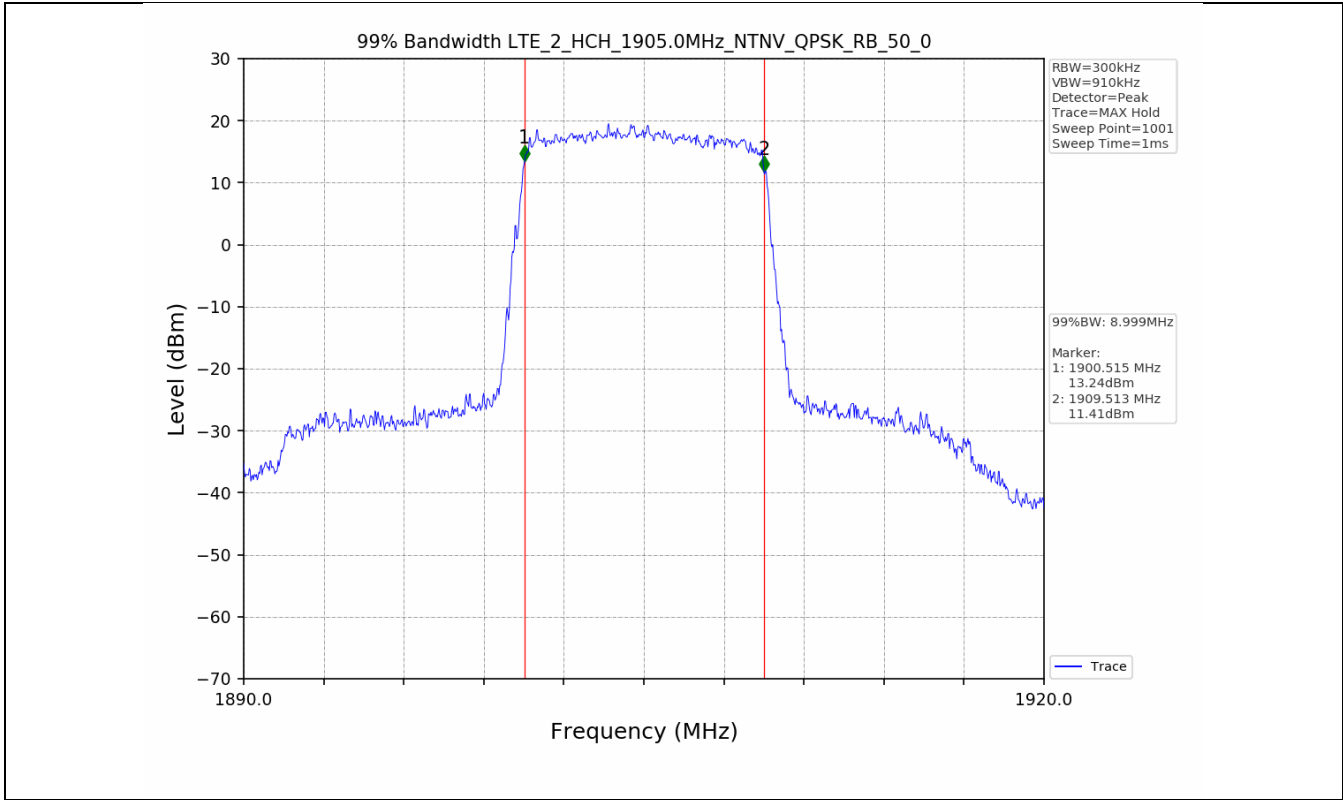




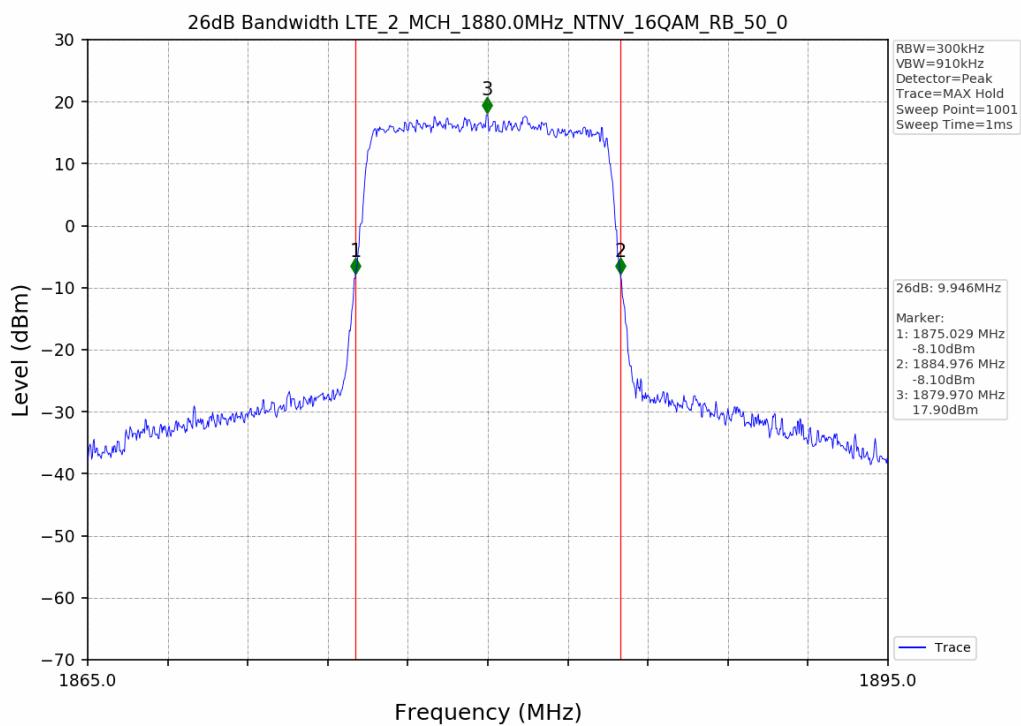
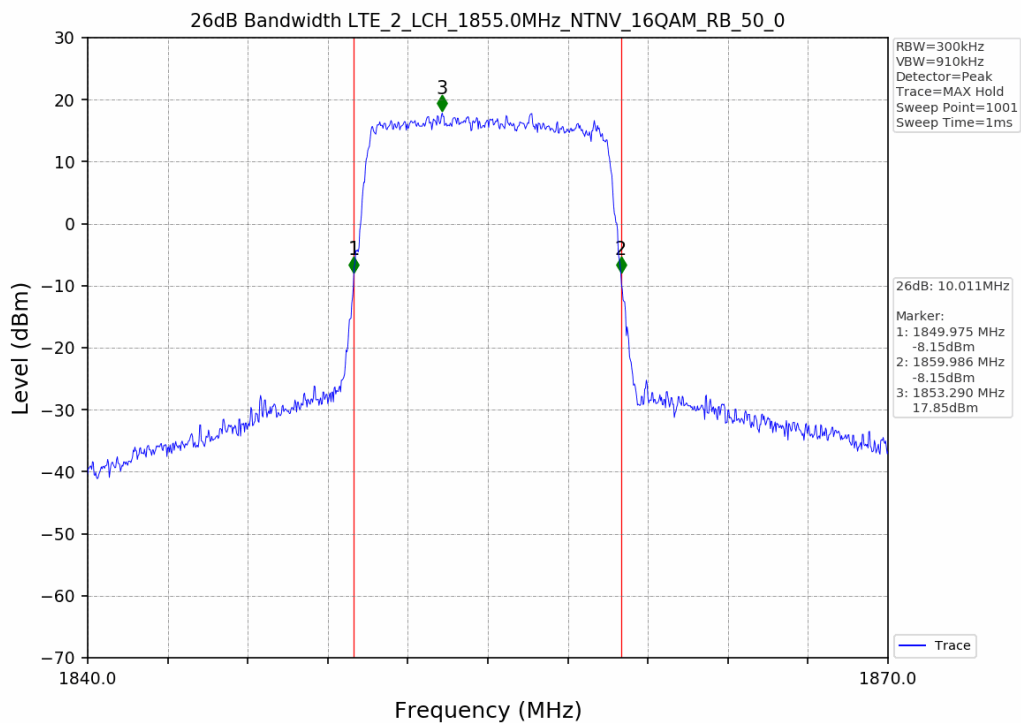


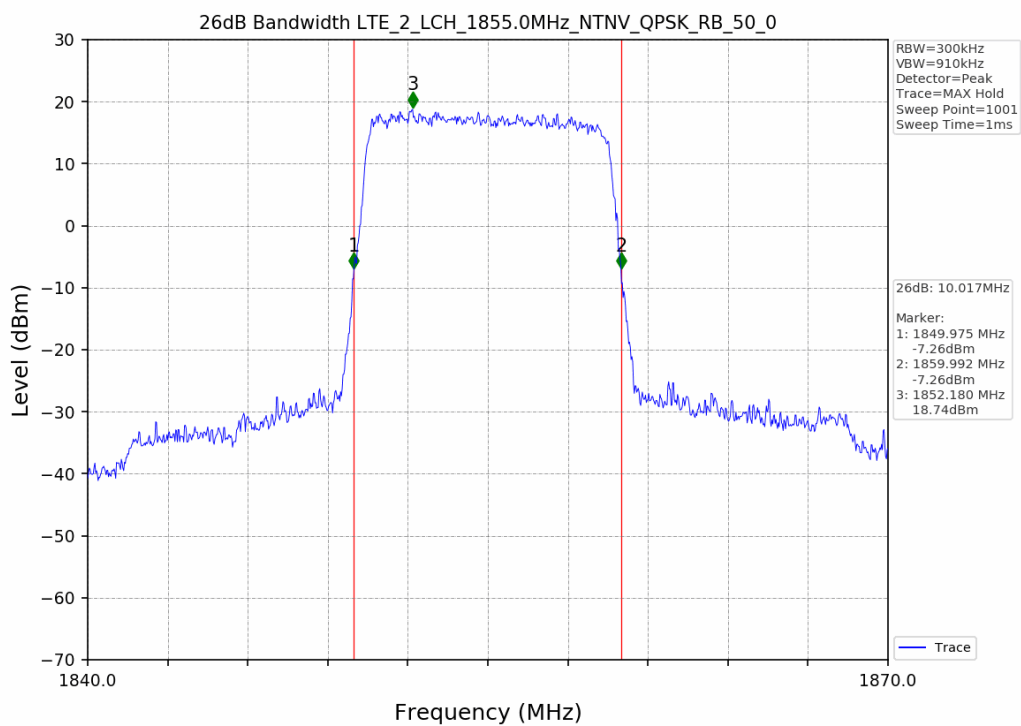
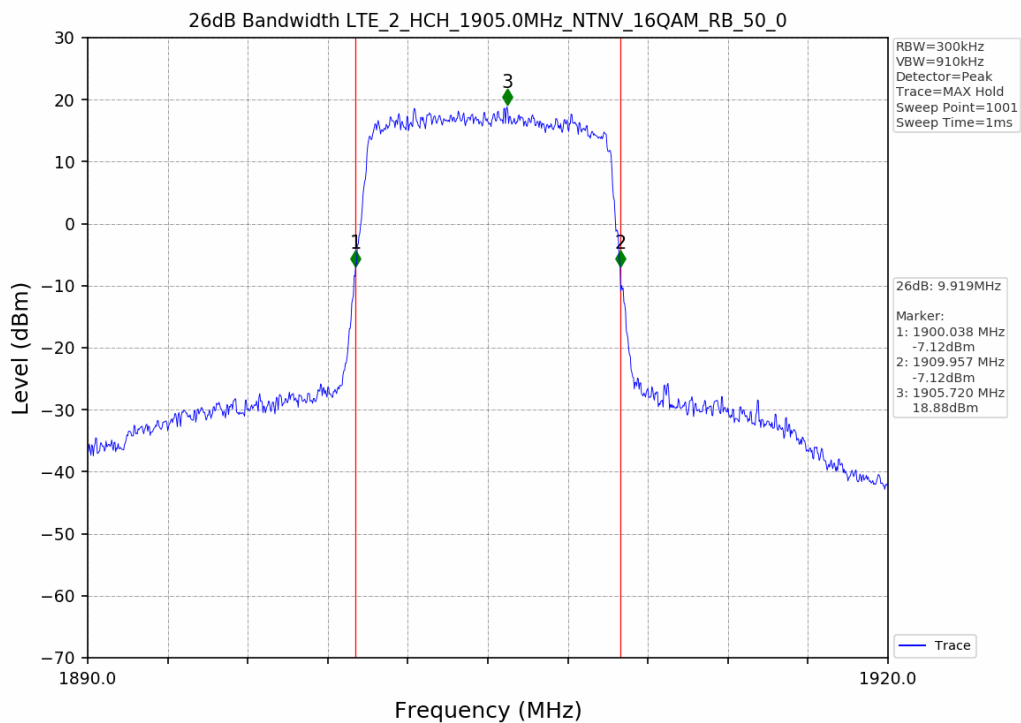


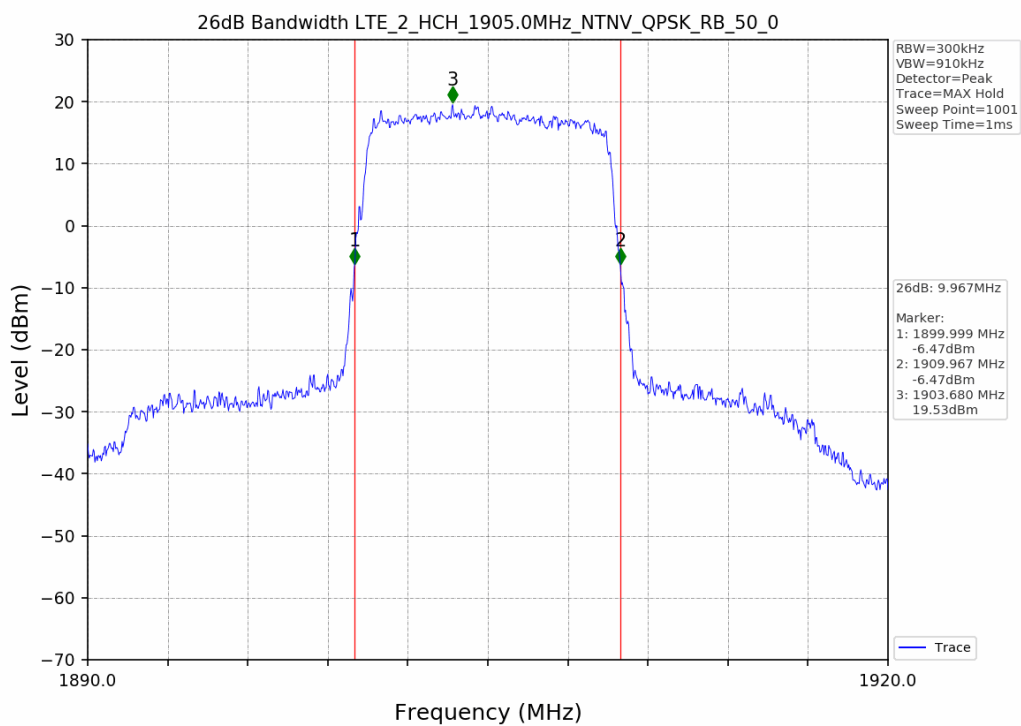
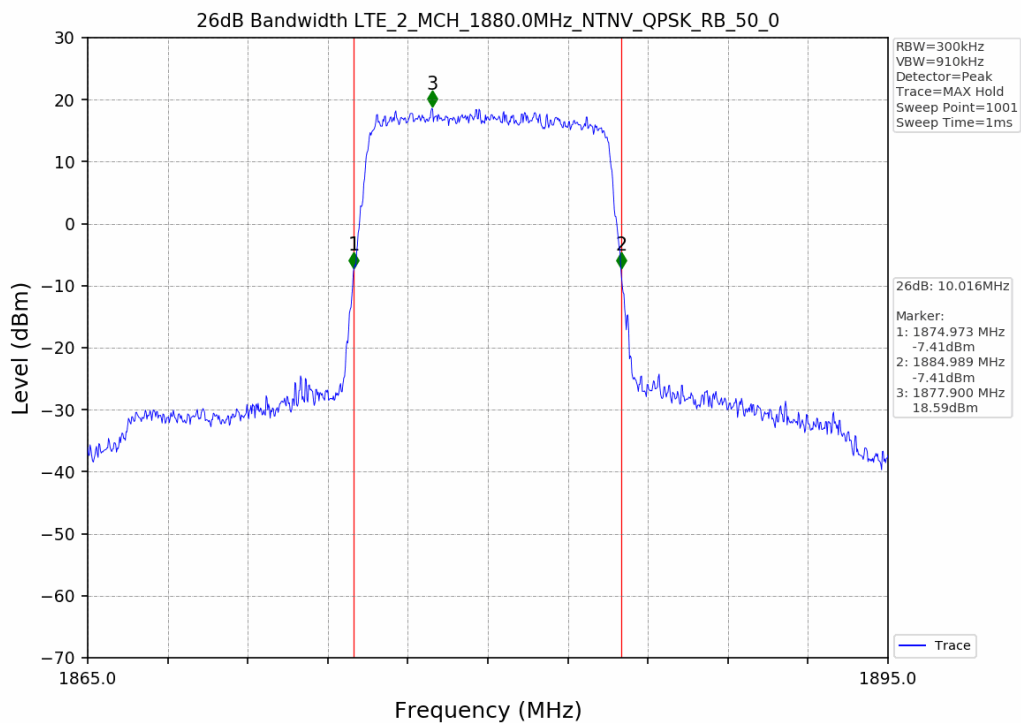




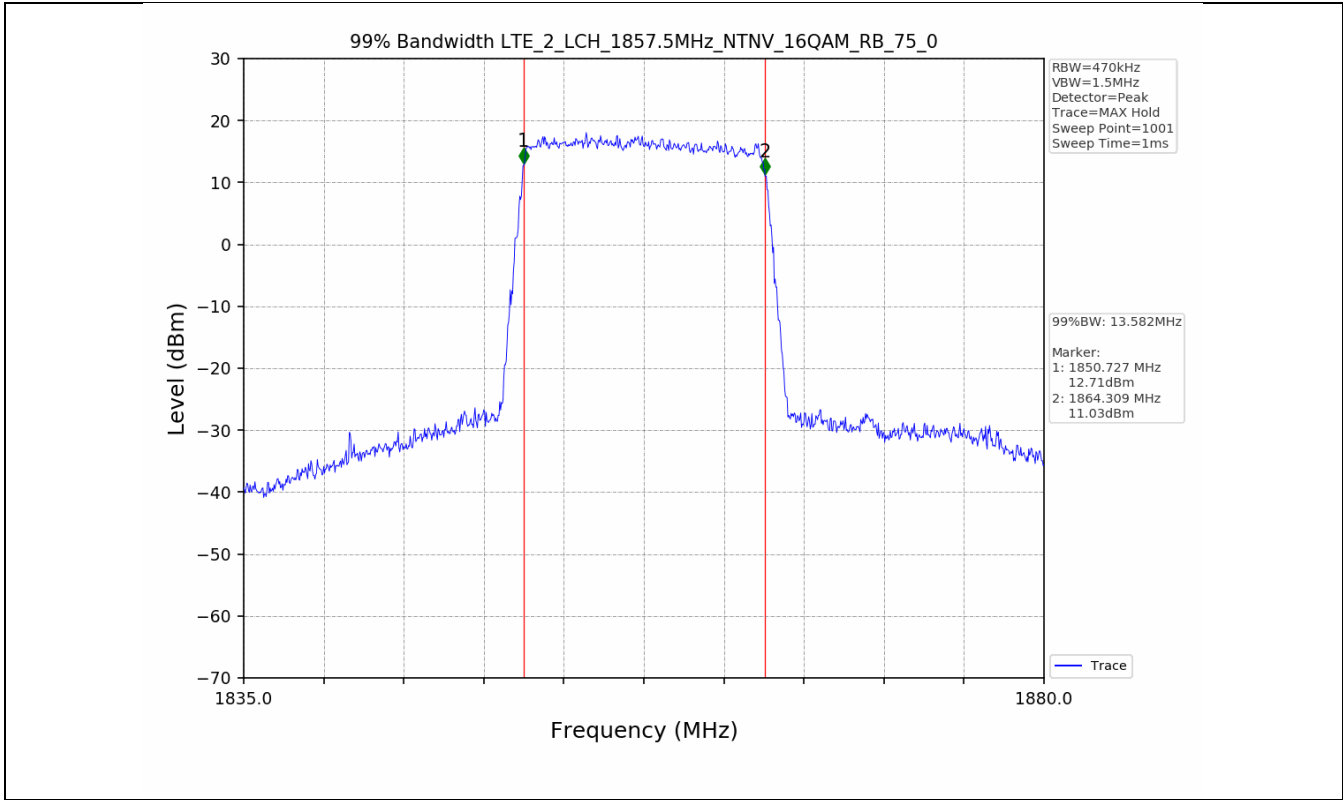
Test Band: 2_10MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	10.017	10.016	9.967	N/A	PASS
16QAM	50	0	10.011	9.946	9.919	N/A	PASS

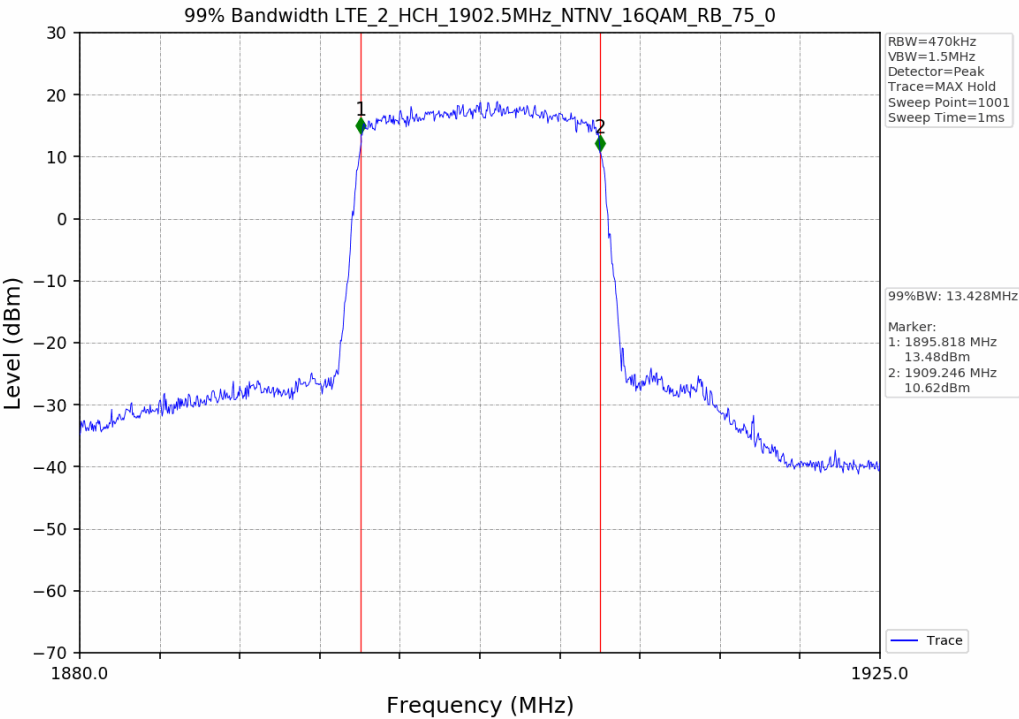
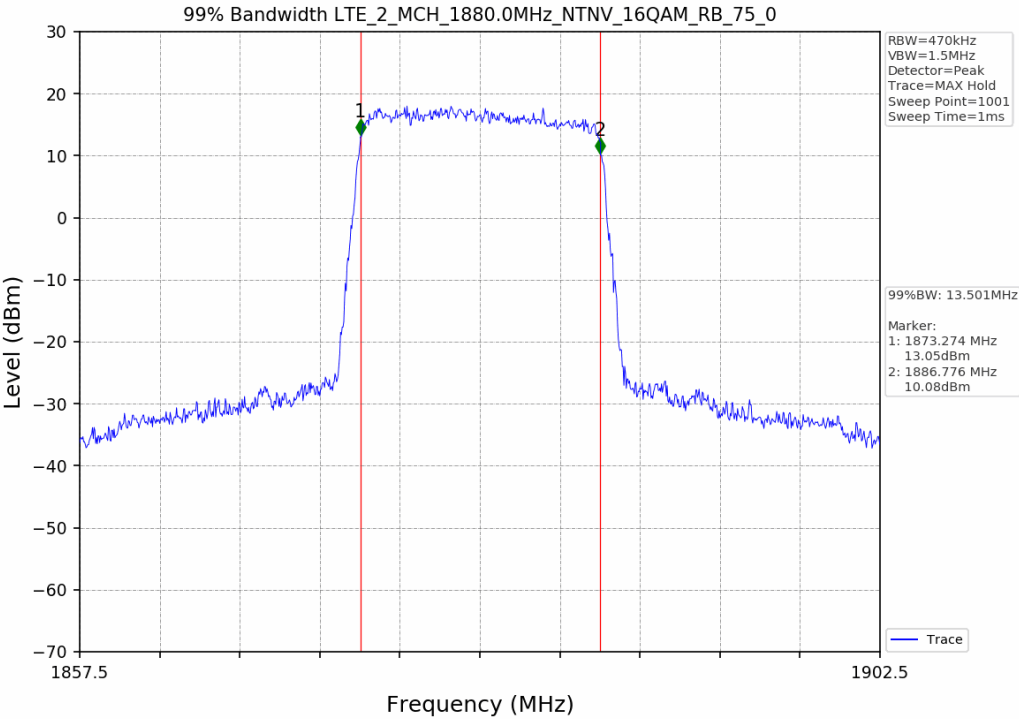


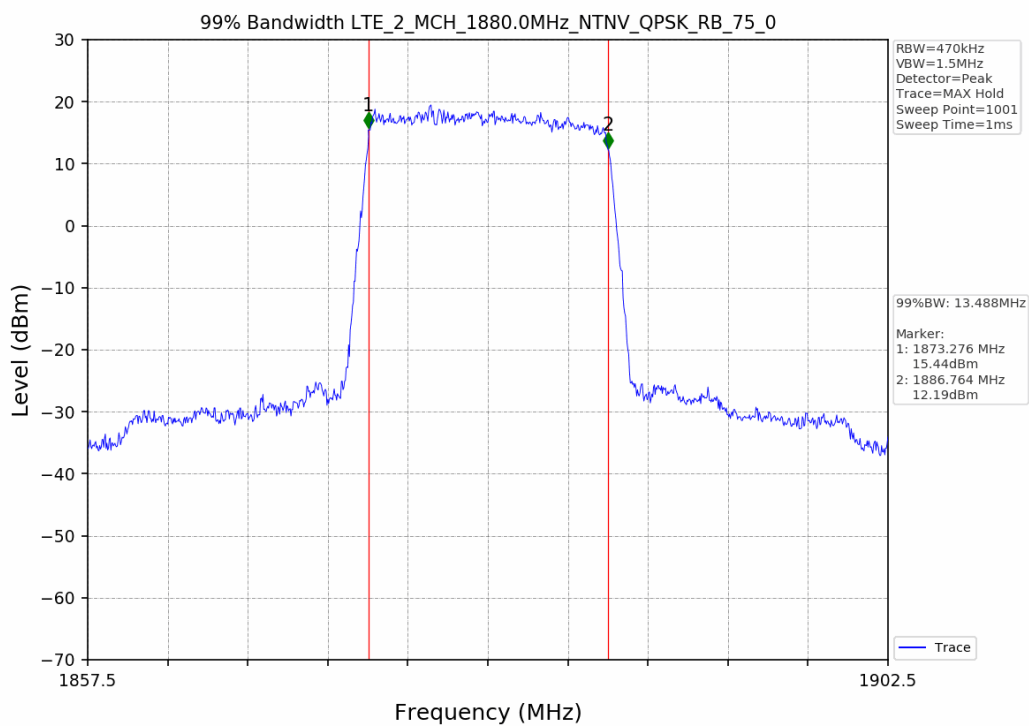
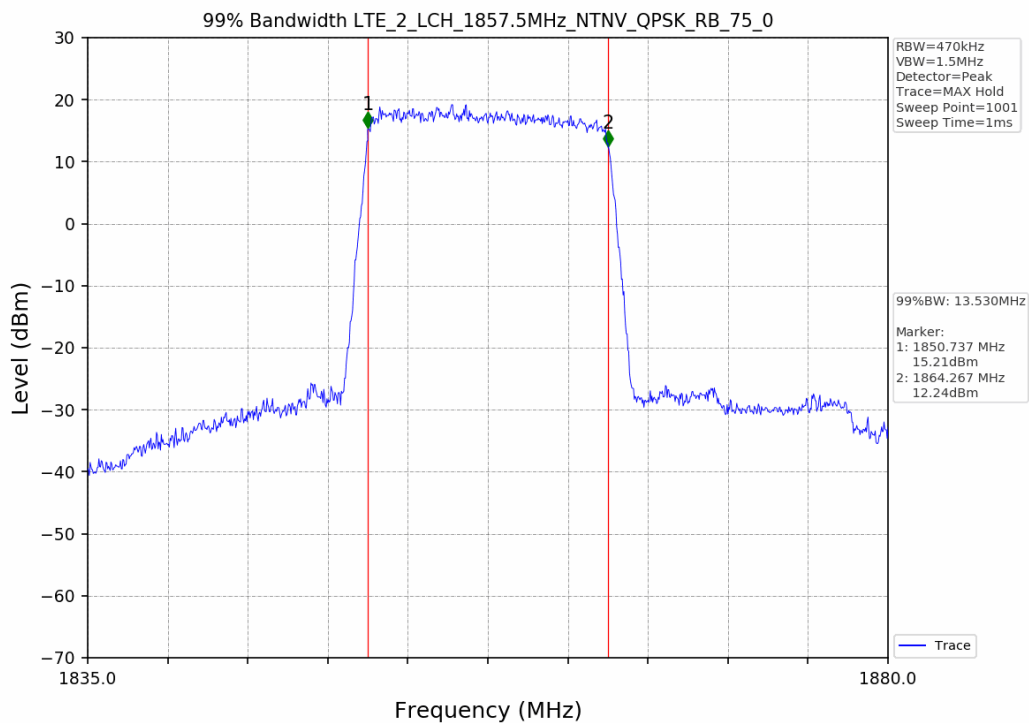


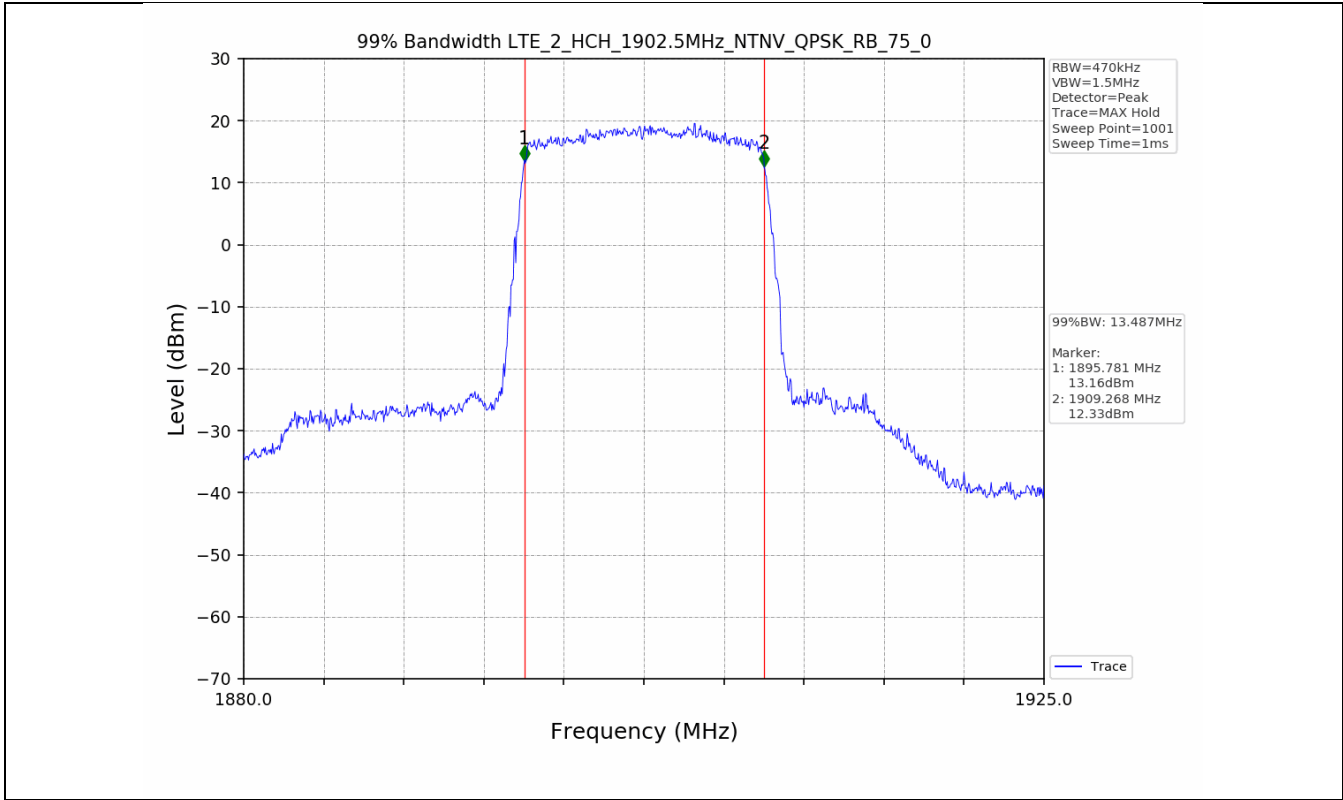


Test Band: 2_15MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	13.530	13.488	13.487	N/A	PASS
16QAM	75	0	13.582	13.501	13.428	N/A	PASS

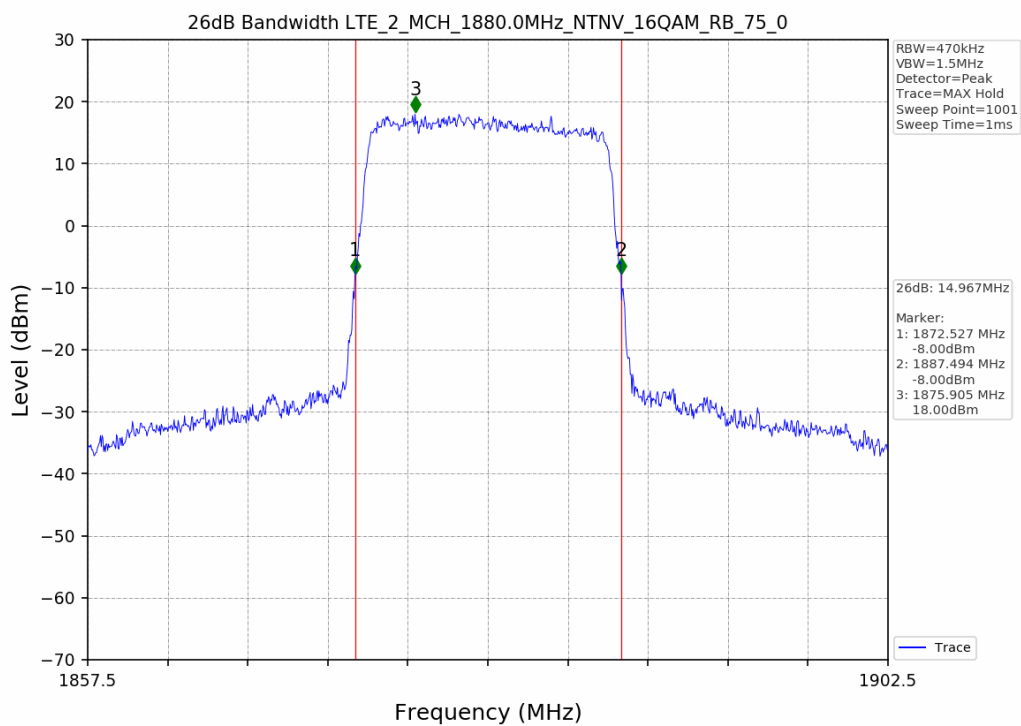
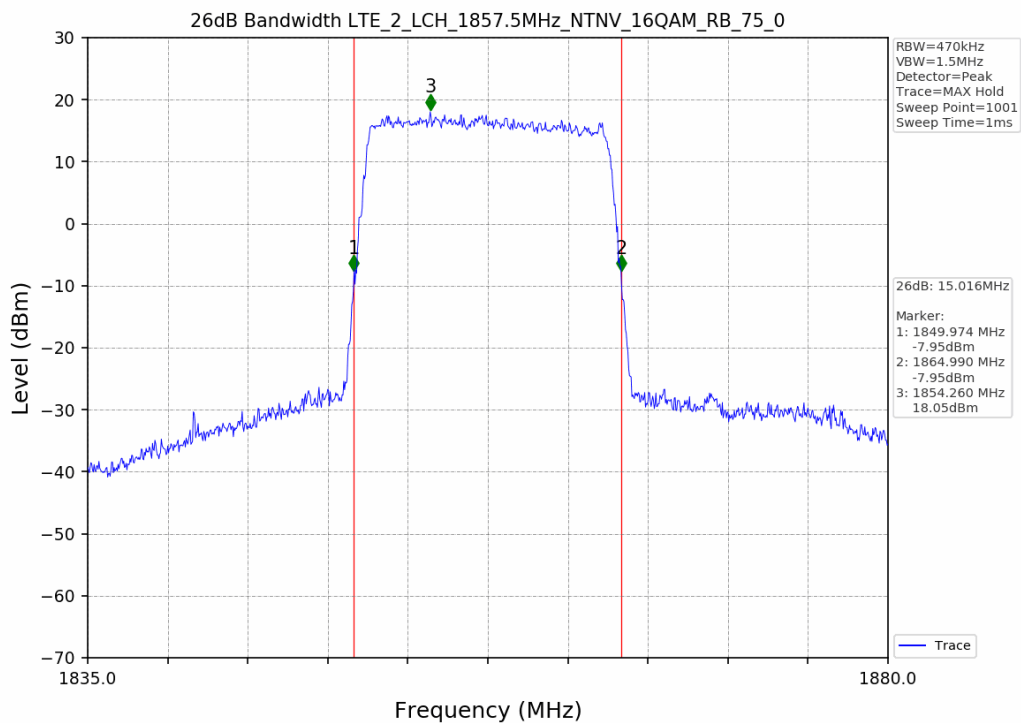


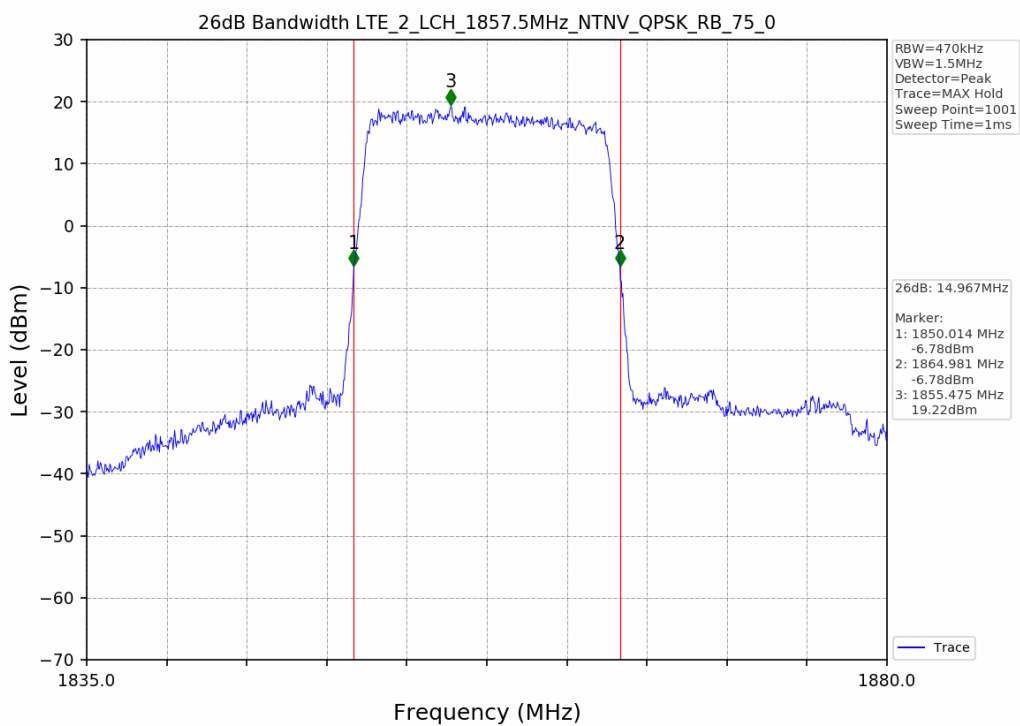
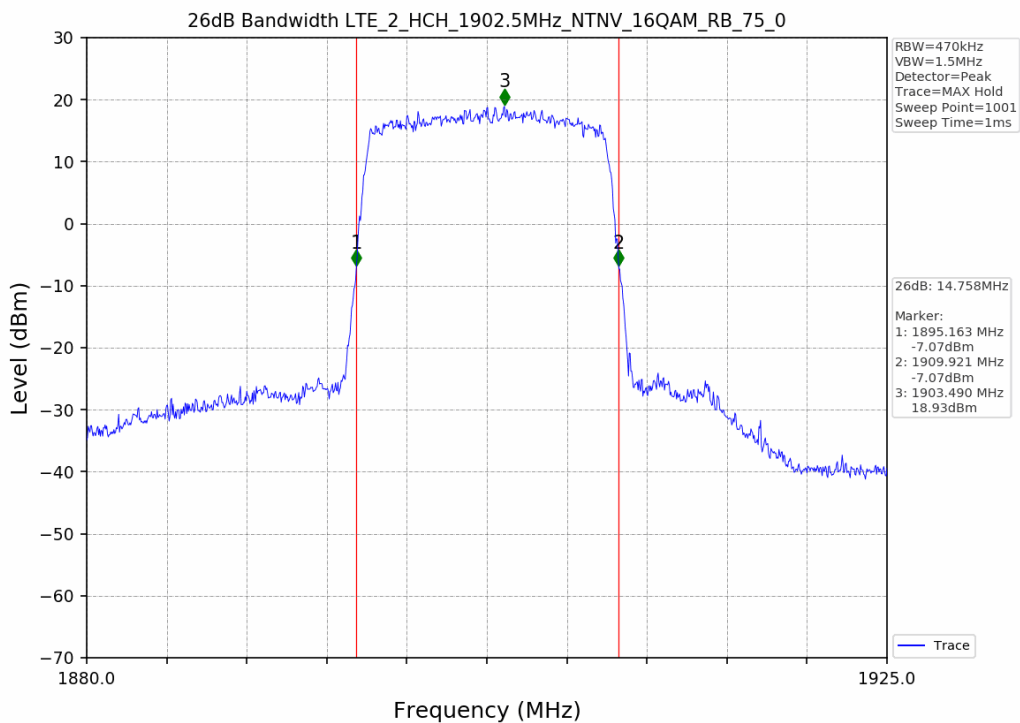


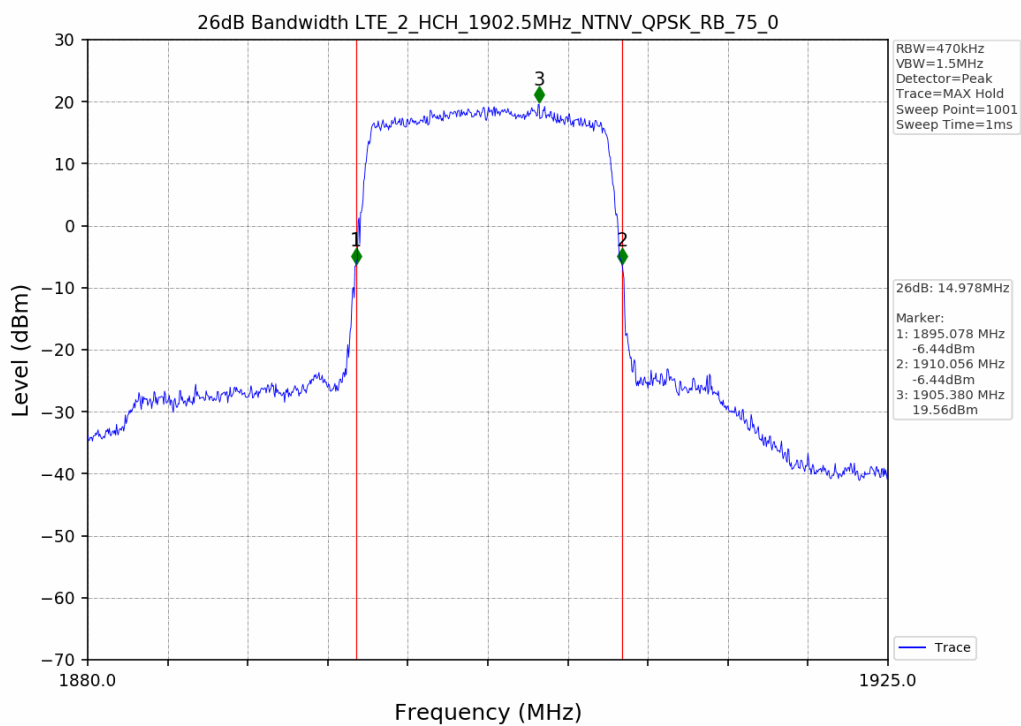
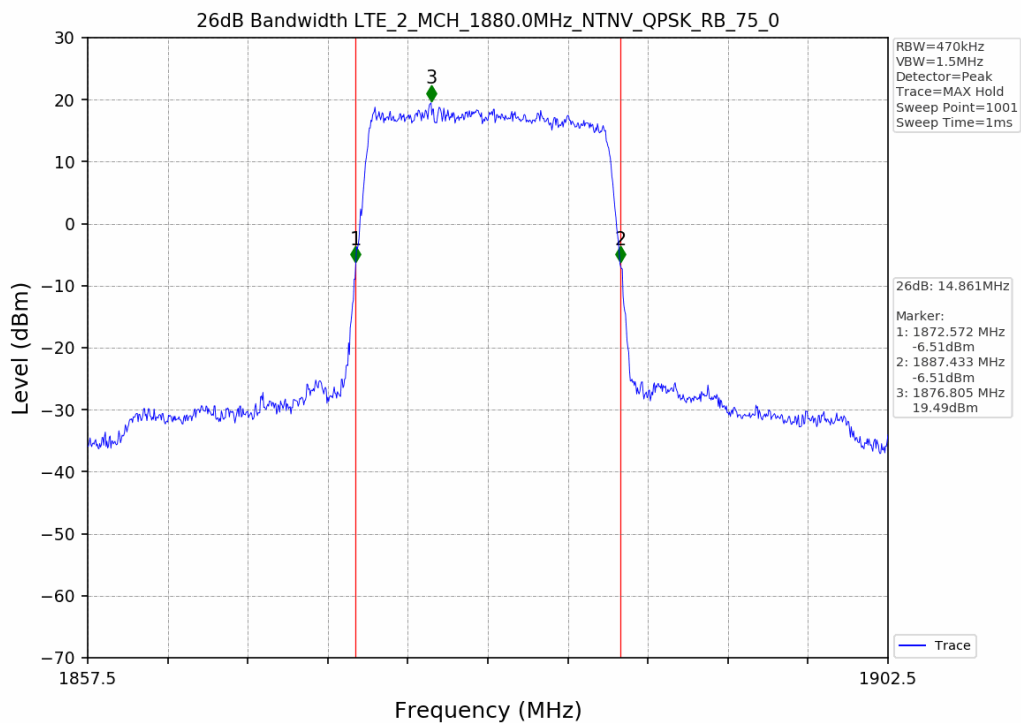




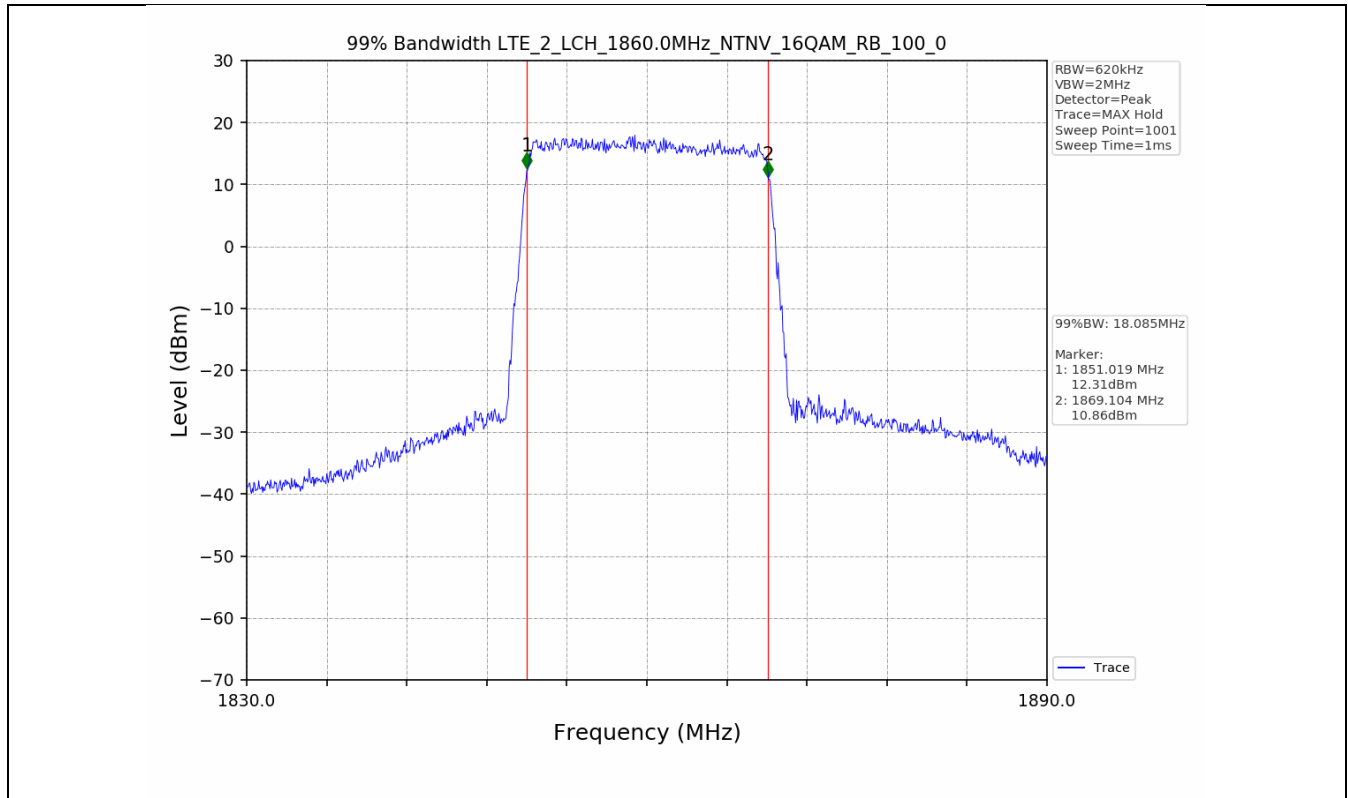
Test Band: 2_15MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	14.967	14.861	14.978	N/A	PASS
16QAM	75	0	15.016	14.967	14.758	N/A	PASS

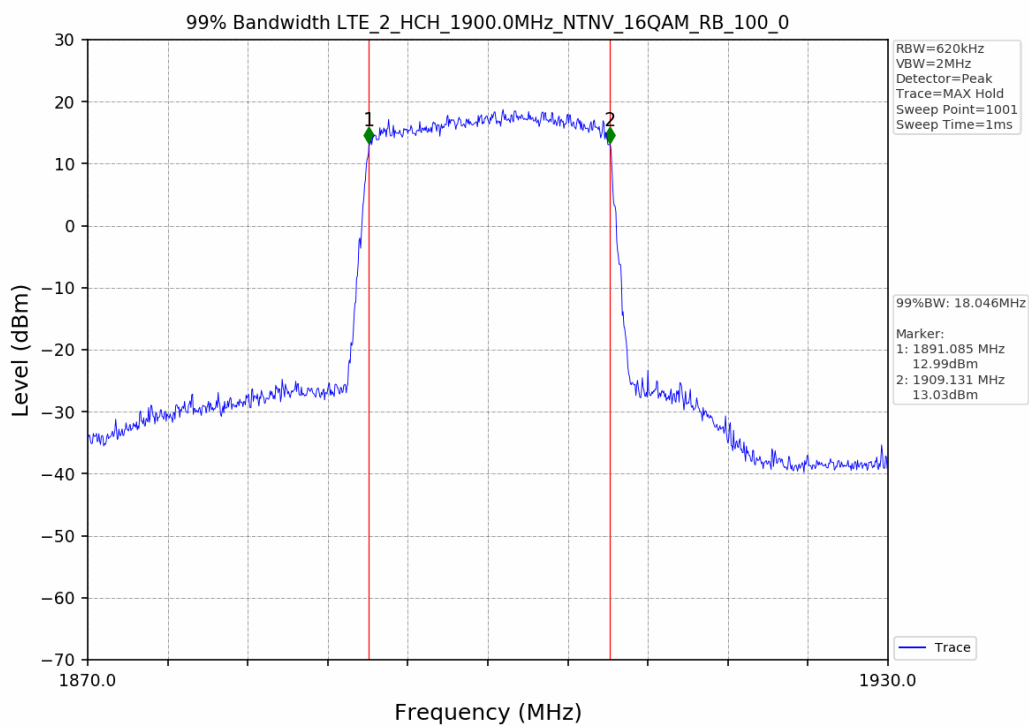
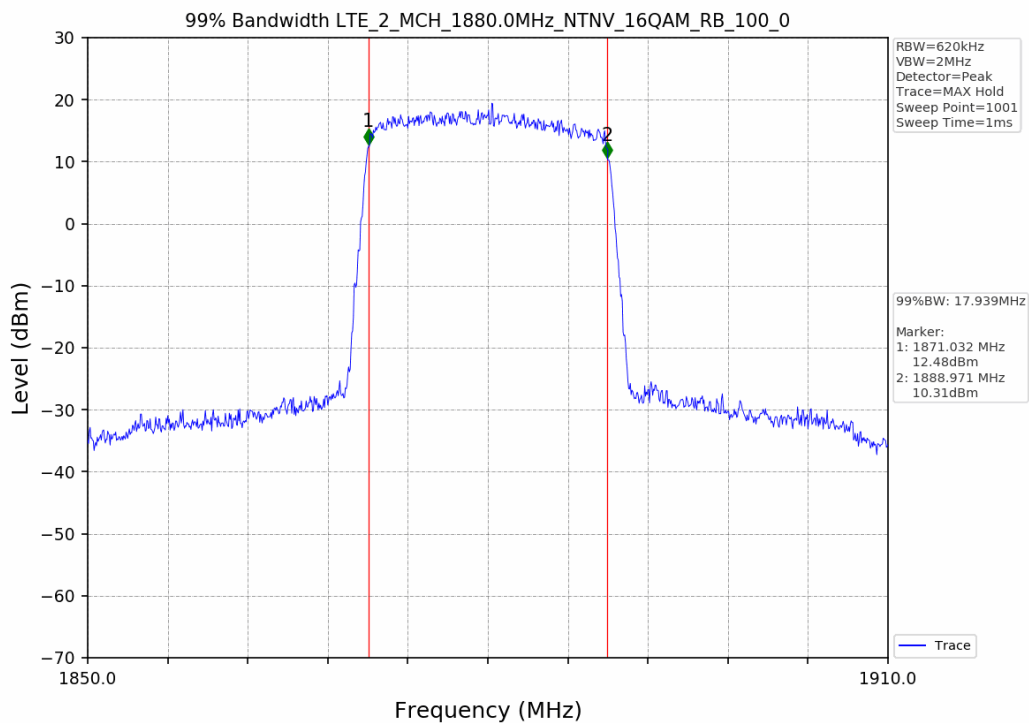


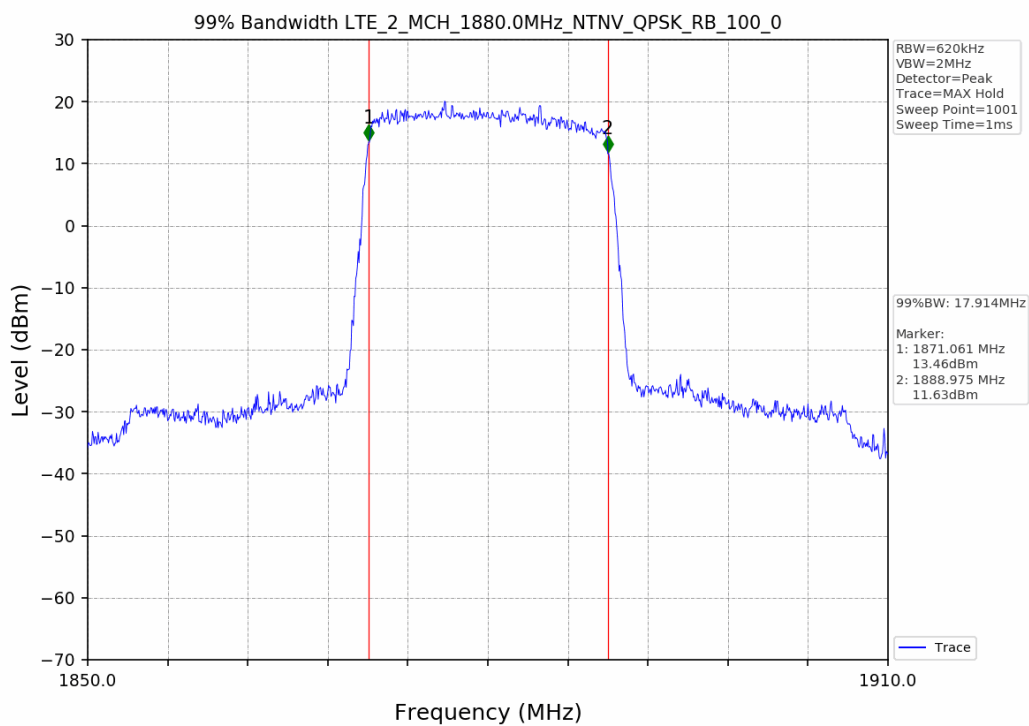
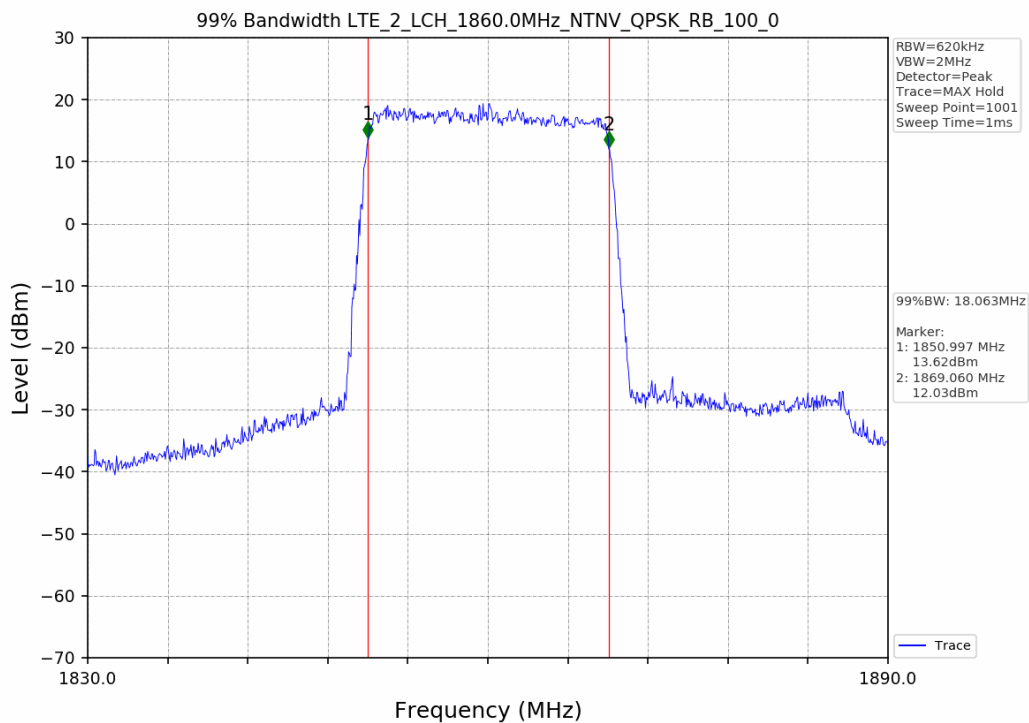


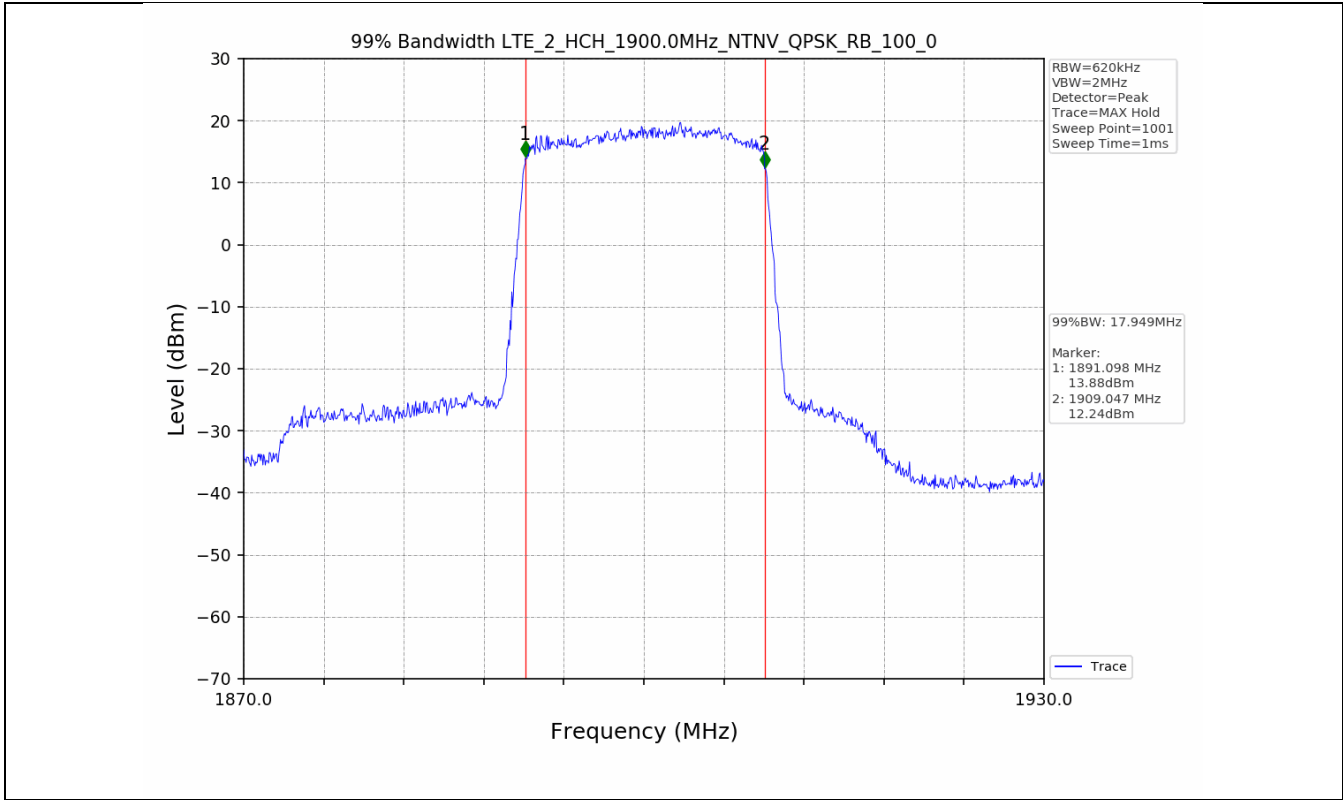


Test Band: 2_20MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	18.063	17.914	17.949	N/A	PASS
16QAM	100	0	18.085	17.939	18.046	N/A	PASS

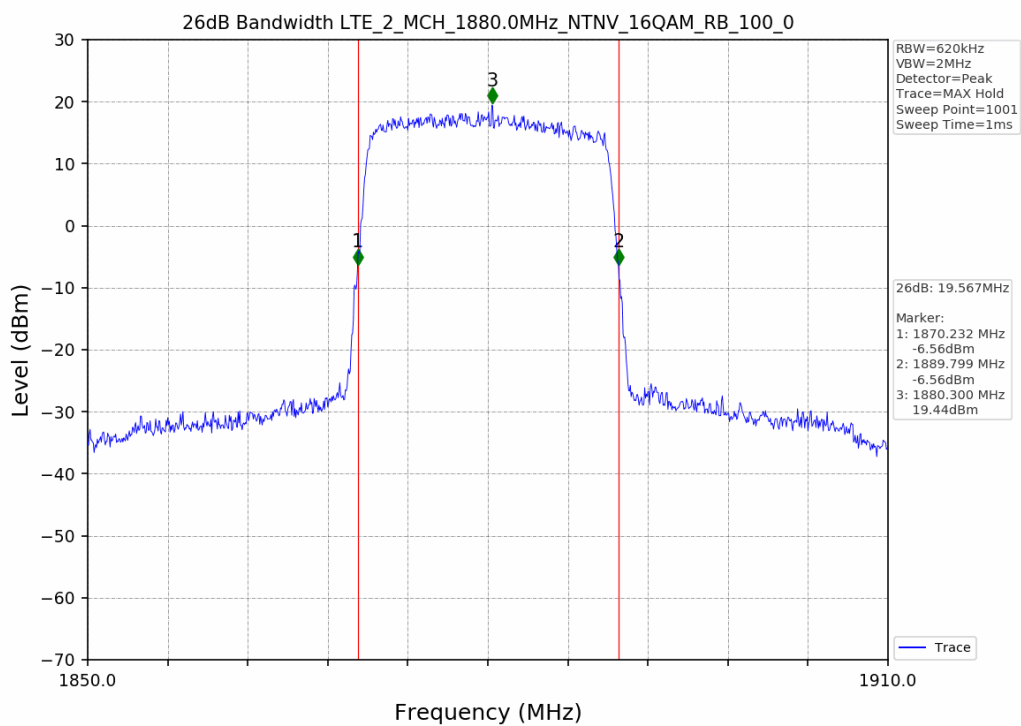
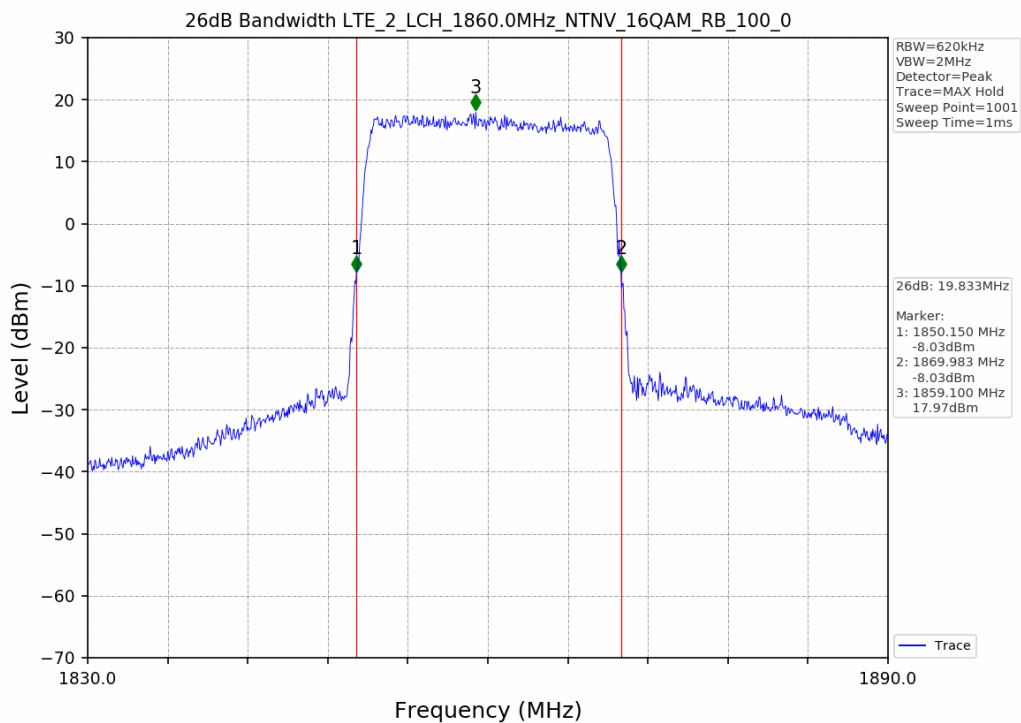


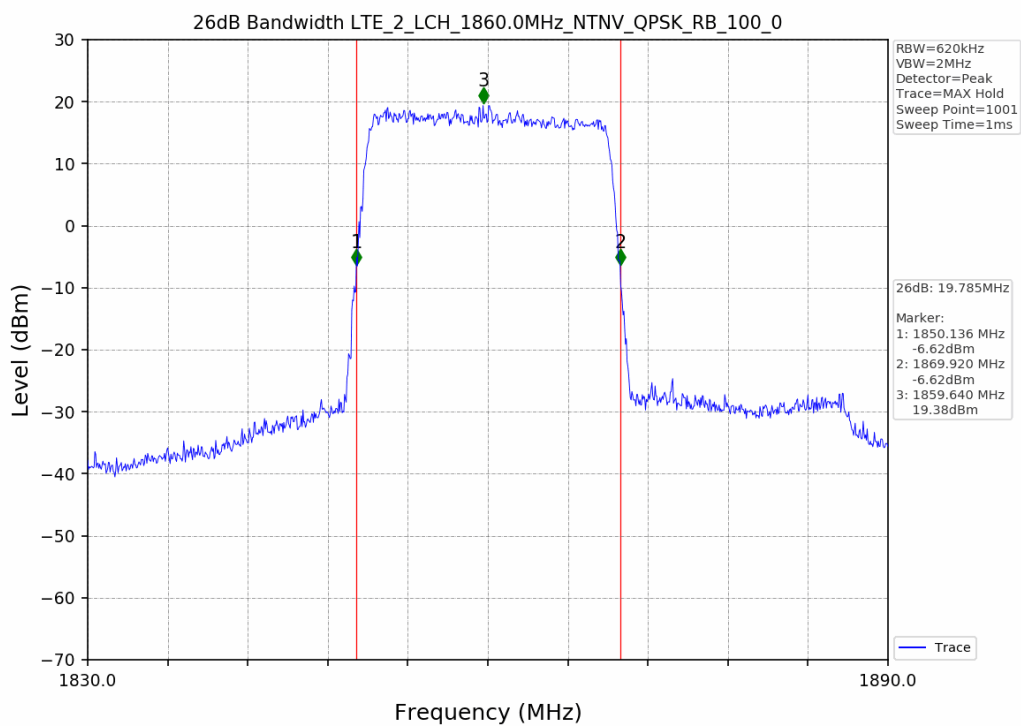
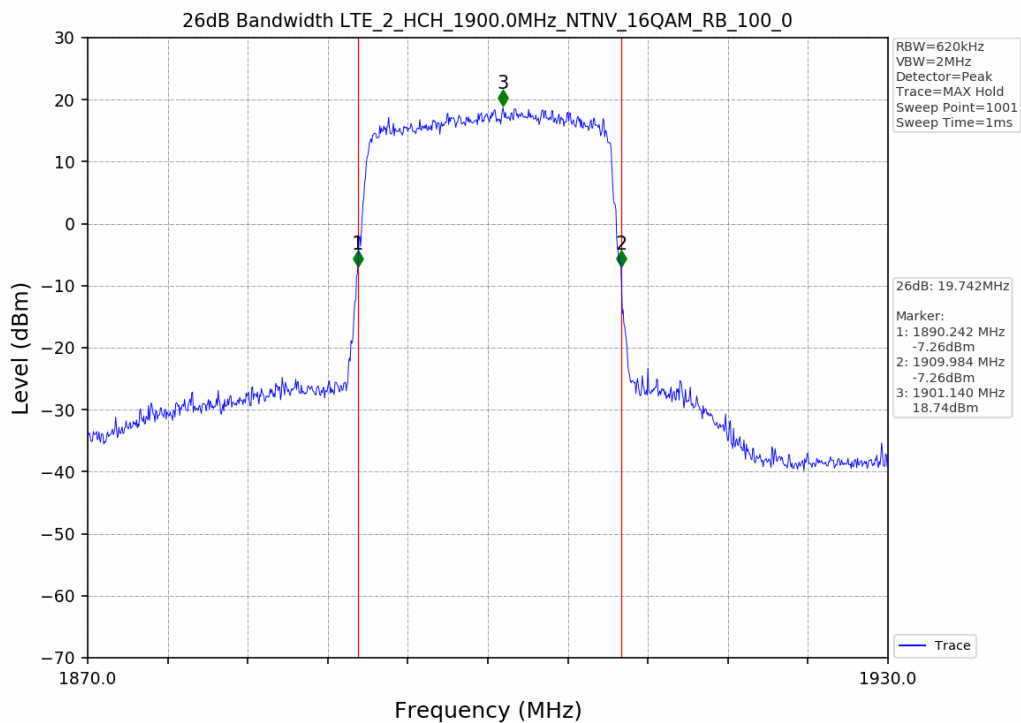


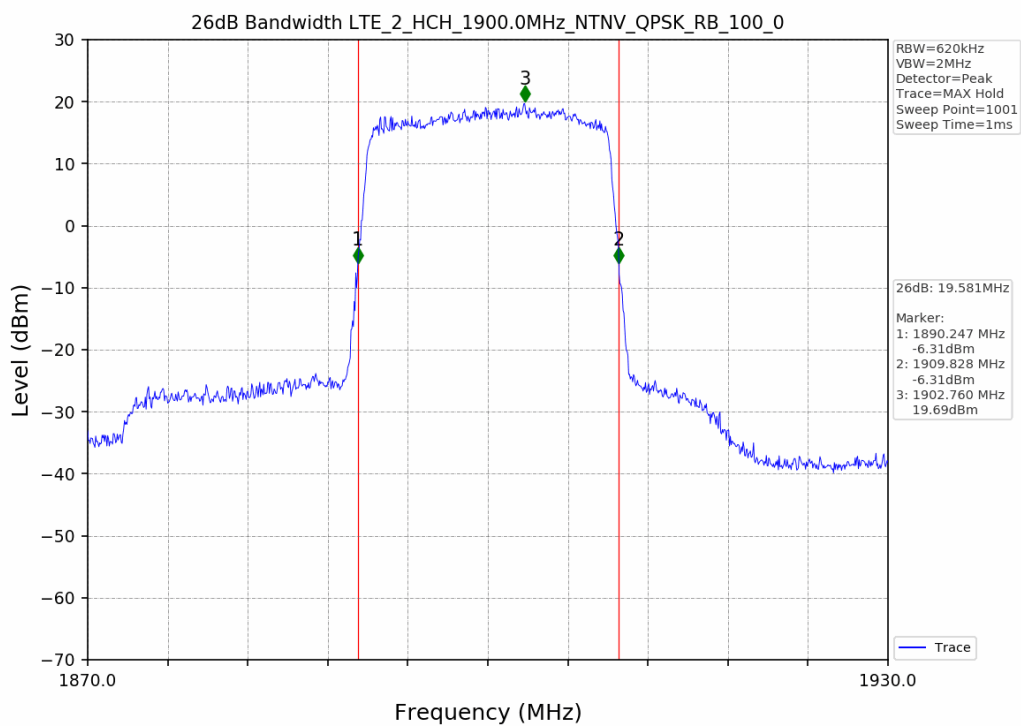
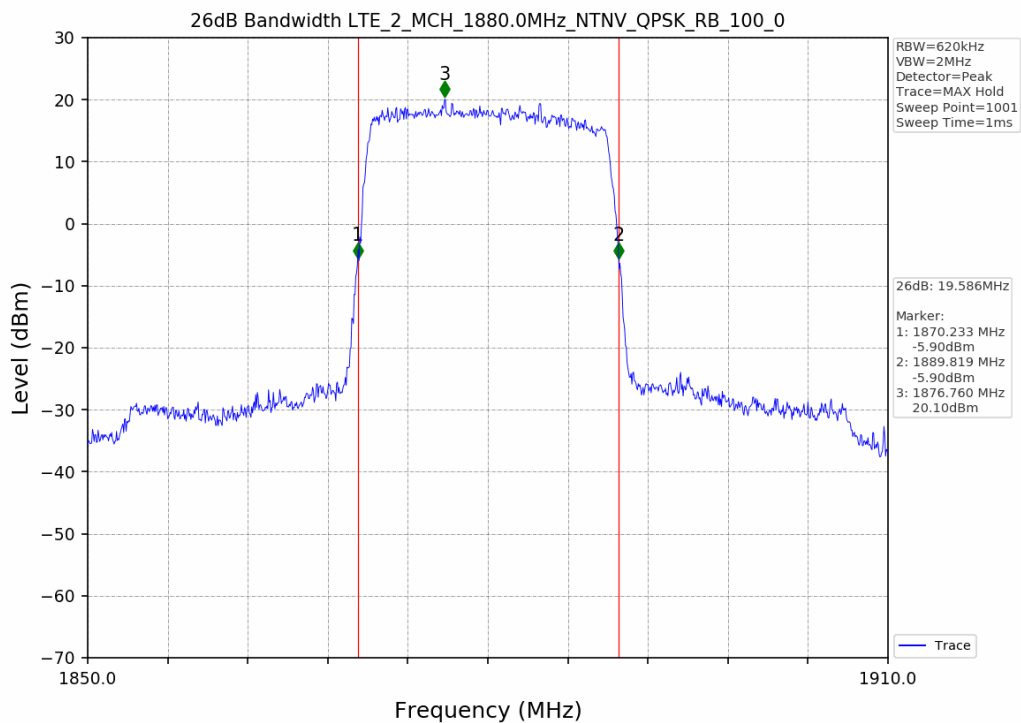




Test Band: 2_20MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	19.785	19.586	19.581	N/A	PASS
16QAM	100	0	19.833	19.567	19.742	N/A	PASS



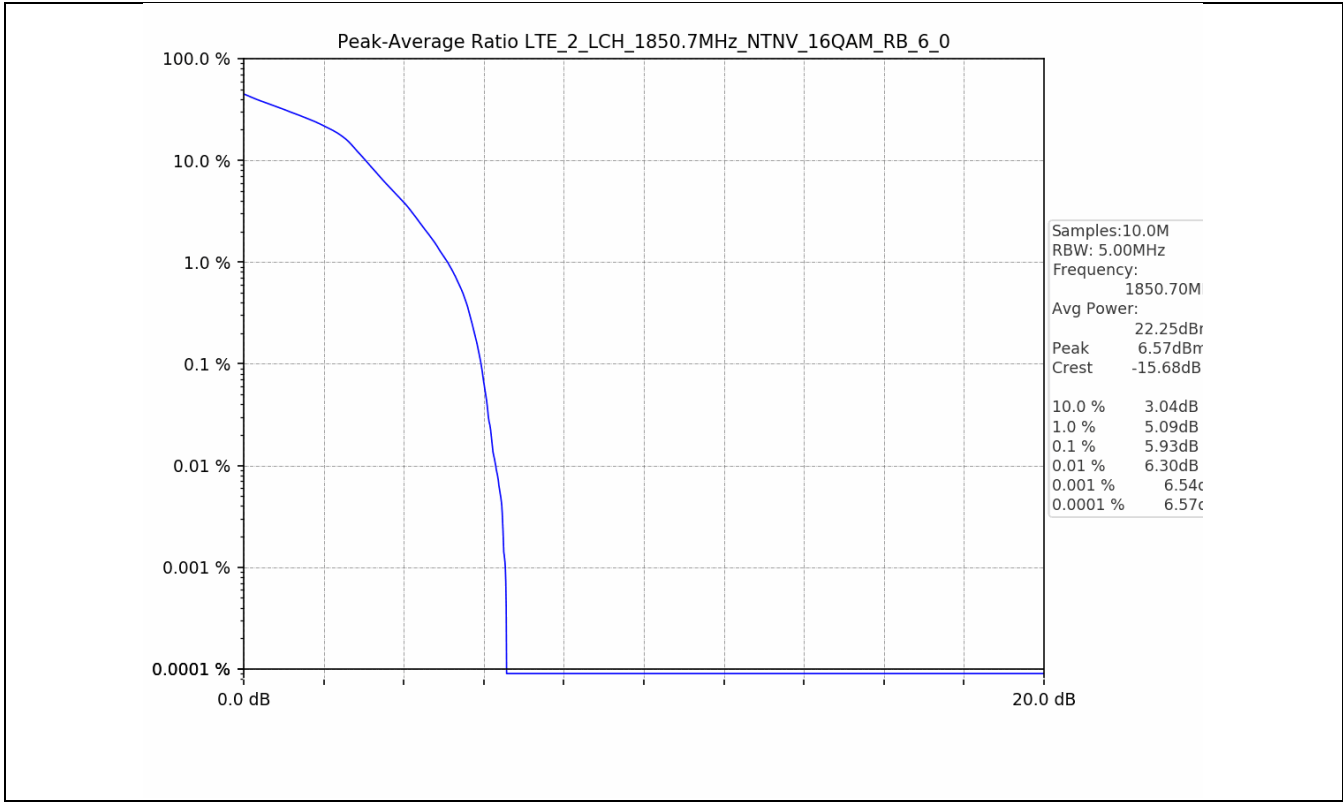


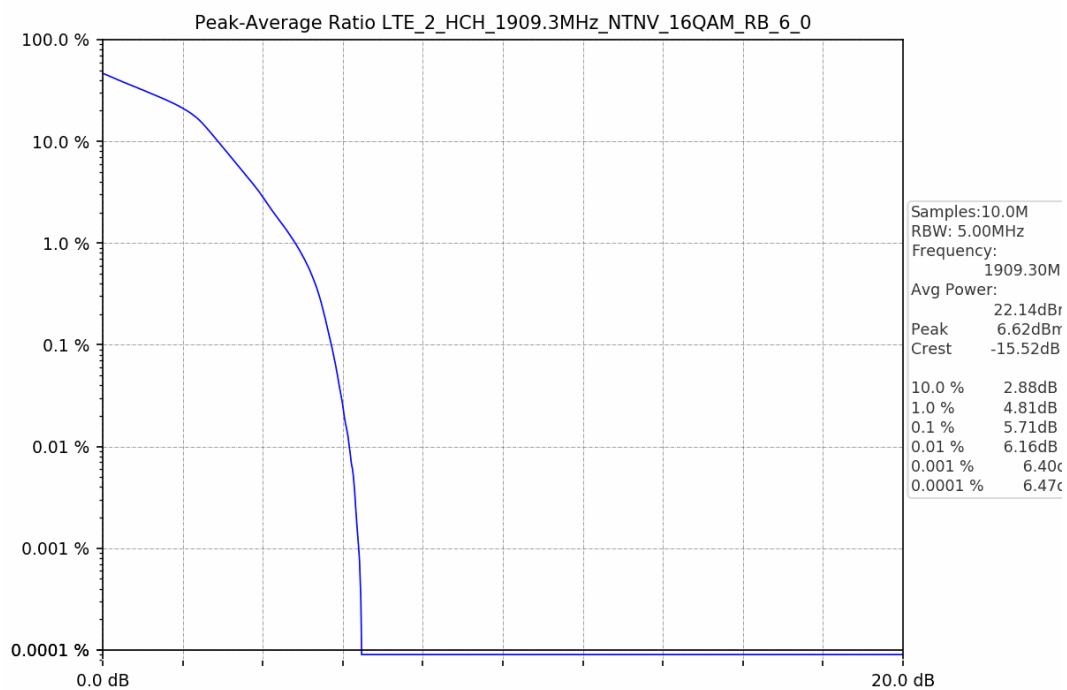
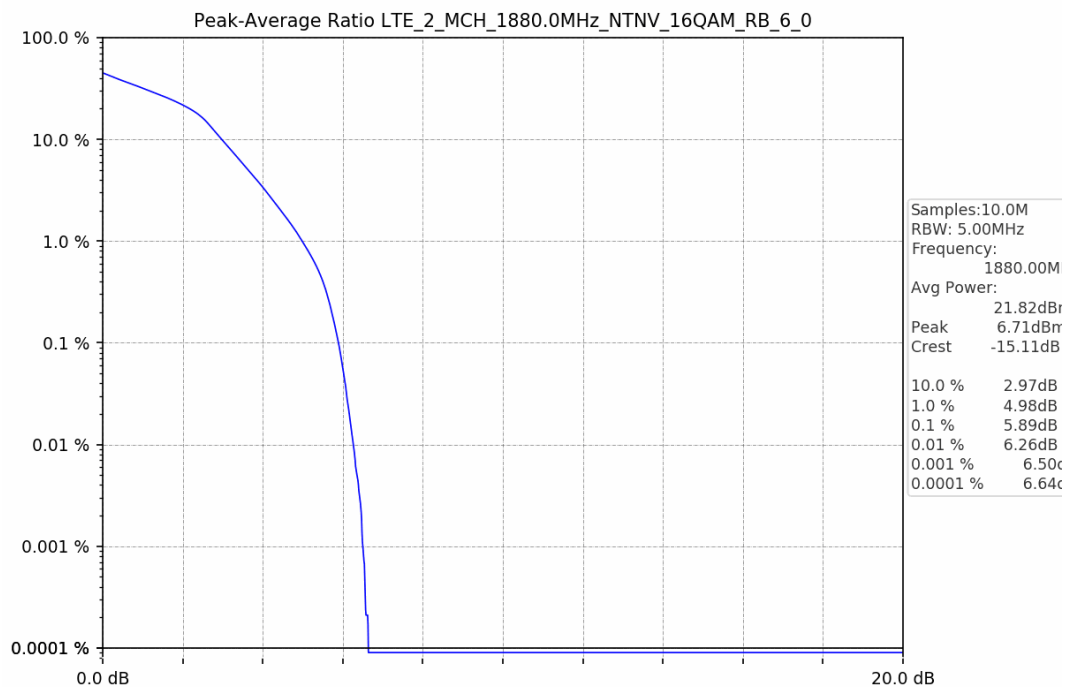


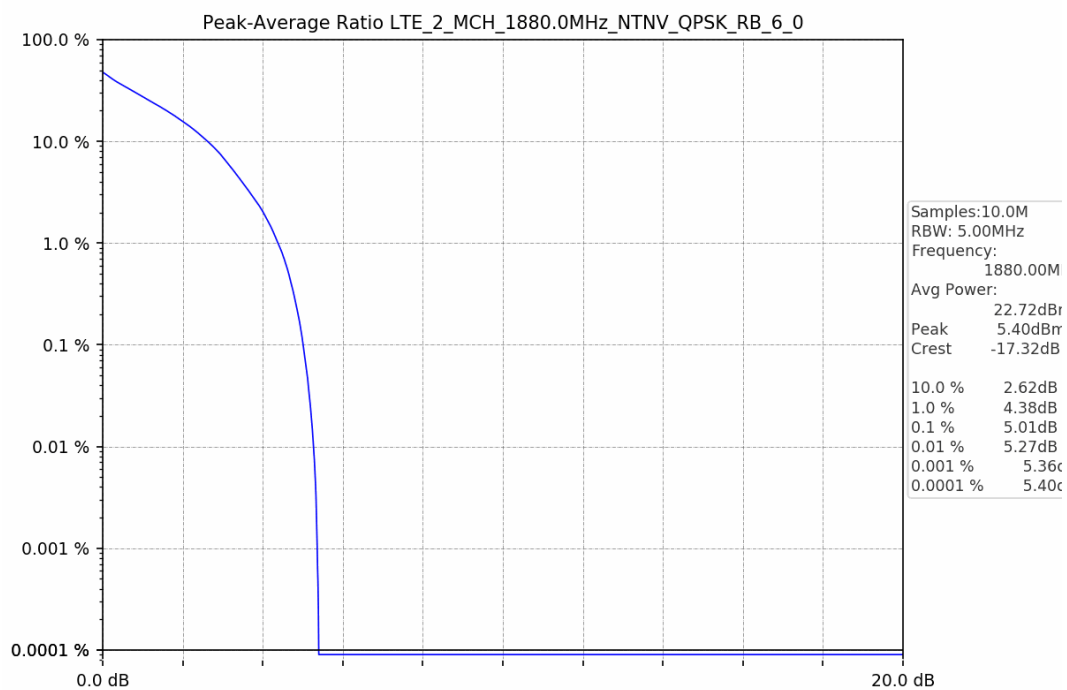
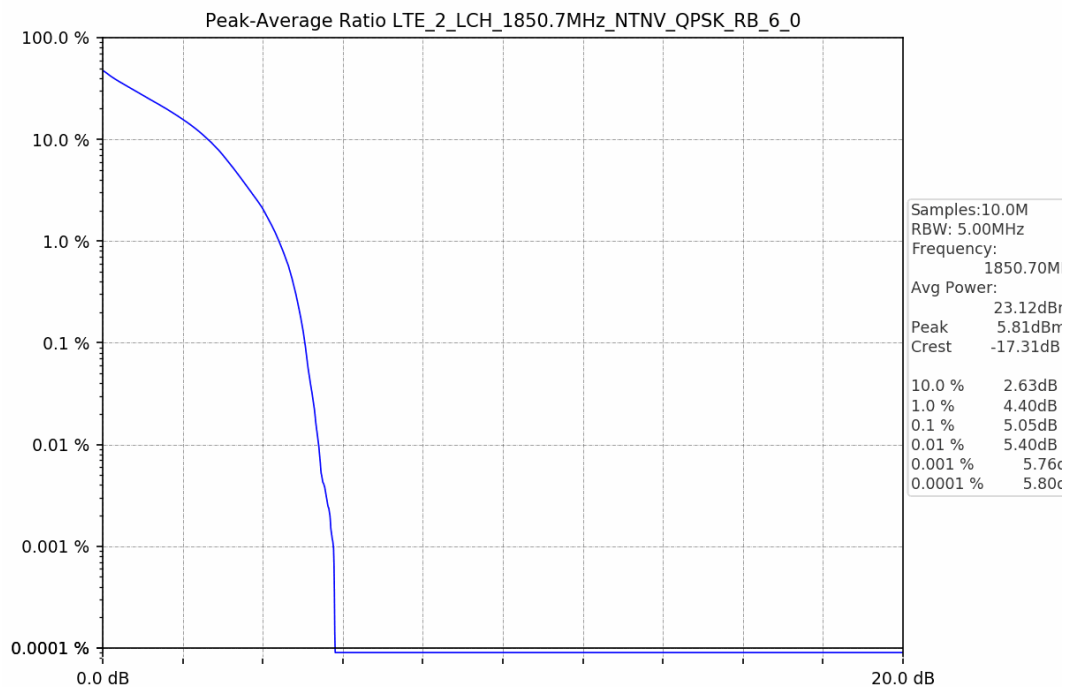
D4. Peak-Average Ratio

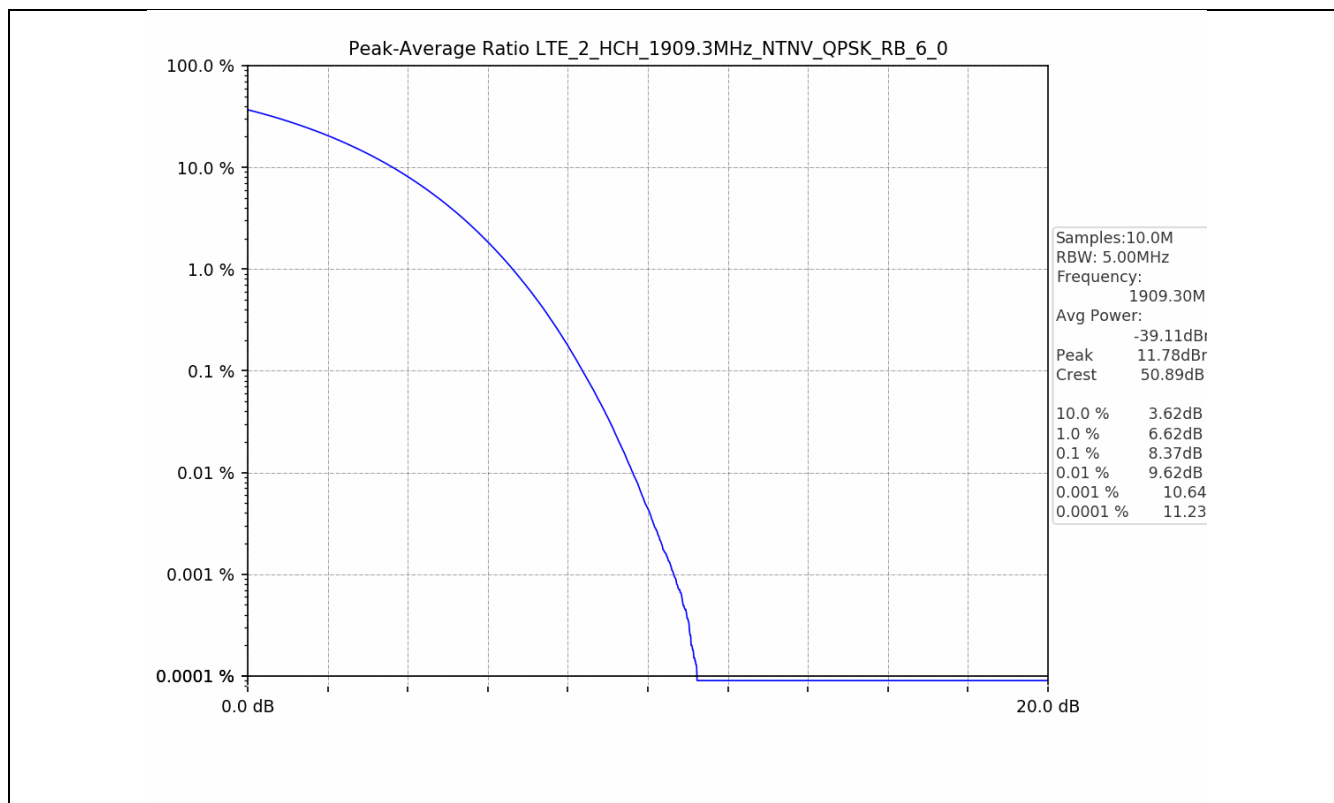
D4.1 Test Result

Test Band: 2 1.4MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	5.05	5.01	8.37	13	PASS
16QAM	6	0	5.93	5.89	5.71	13	PASS

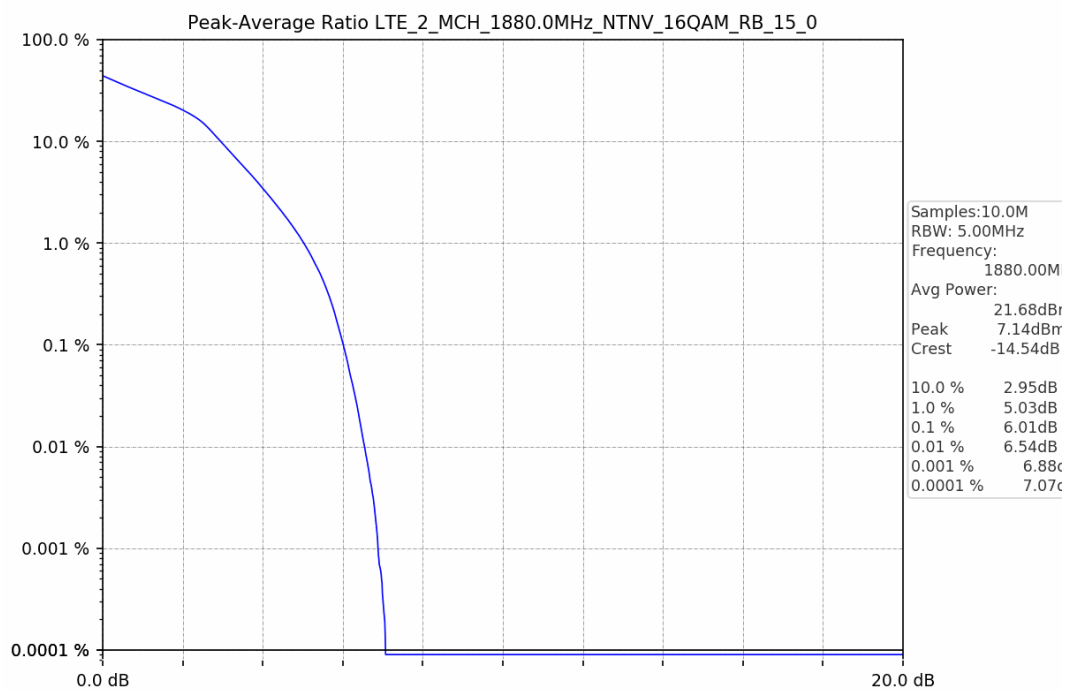
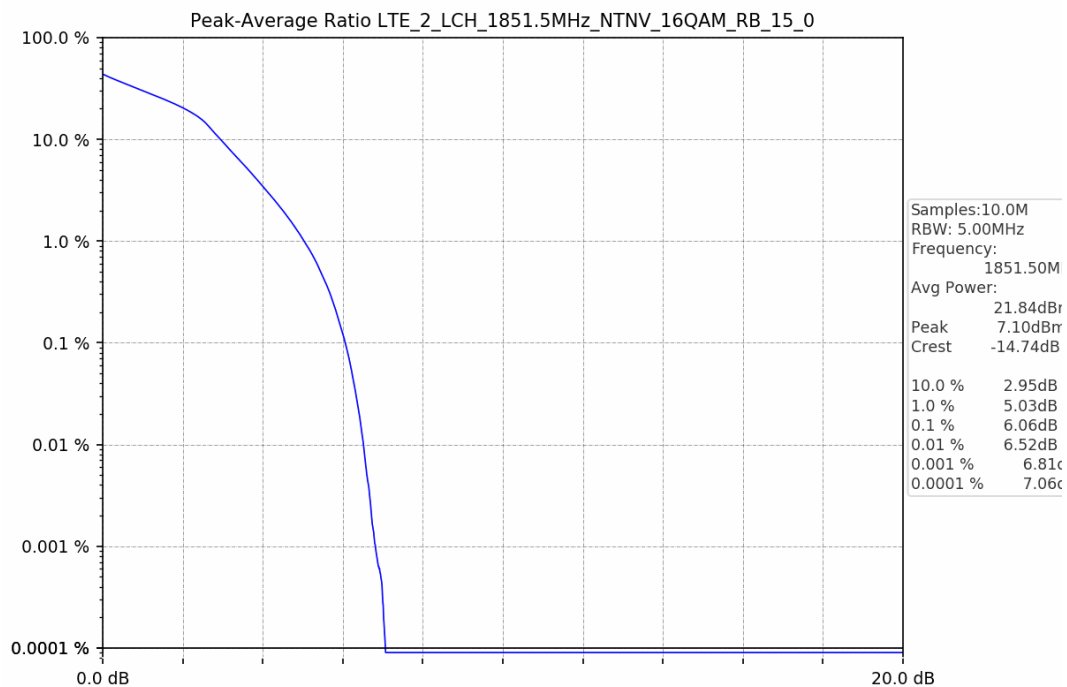


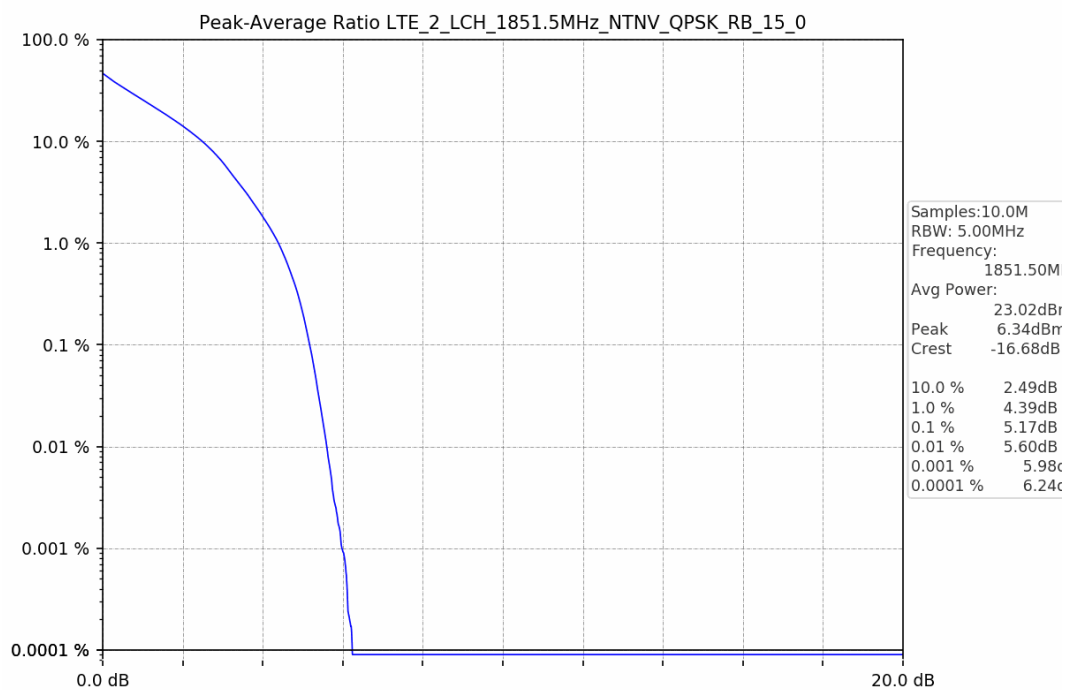
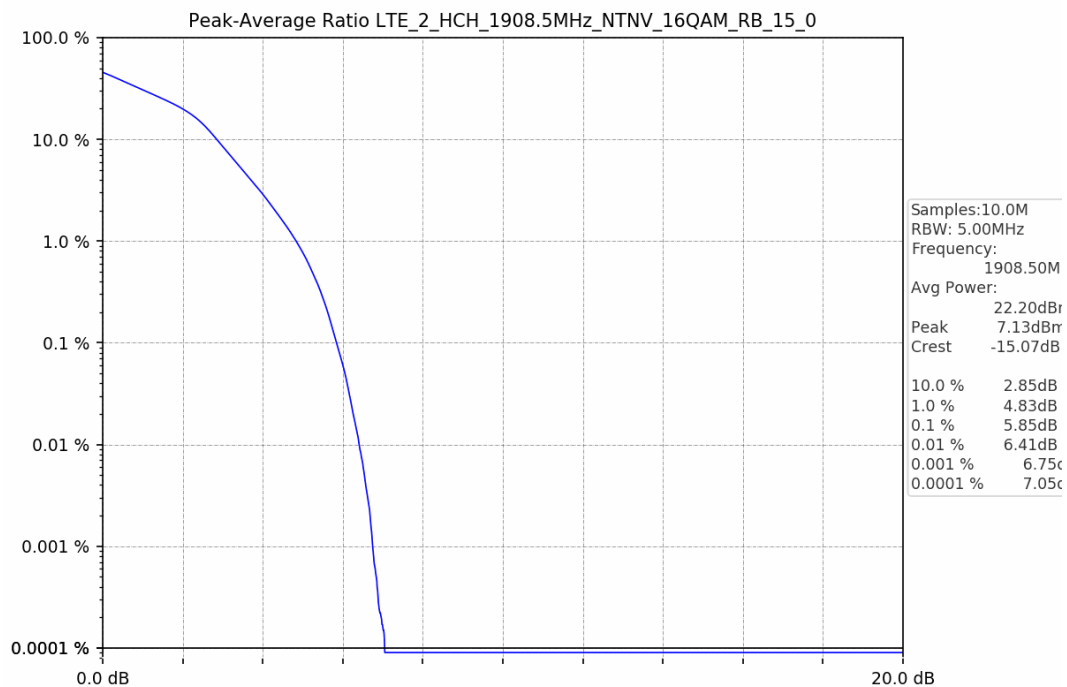


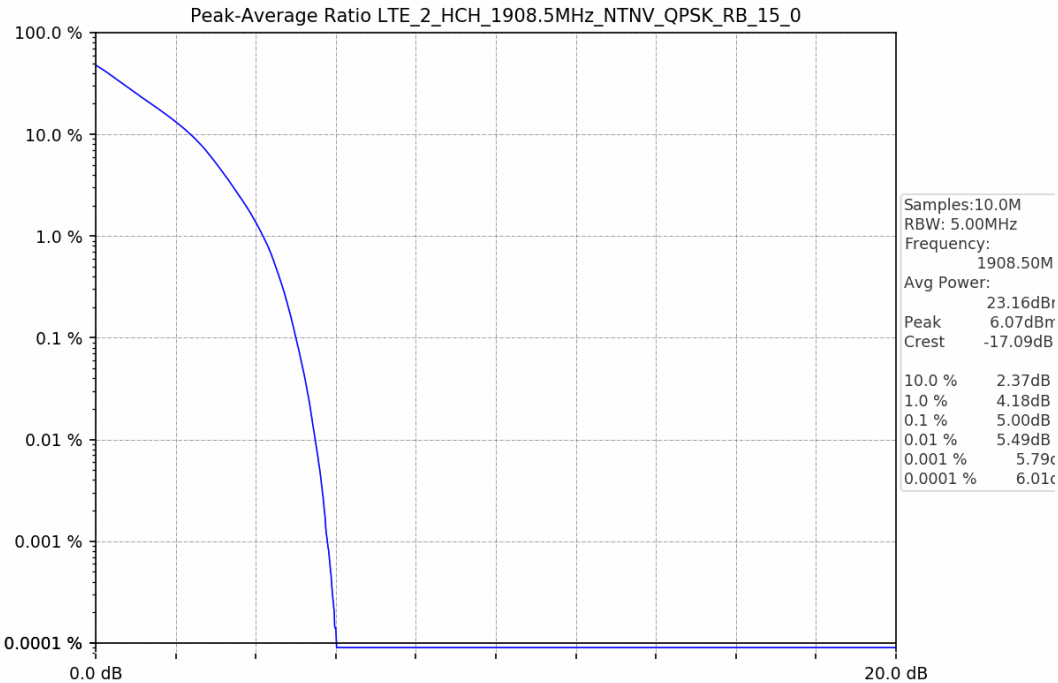
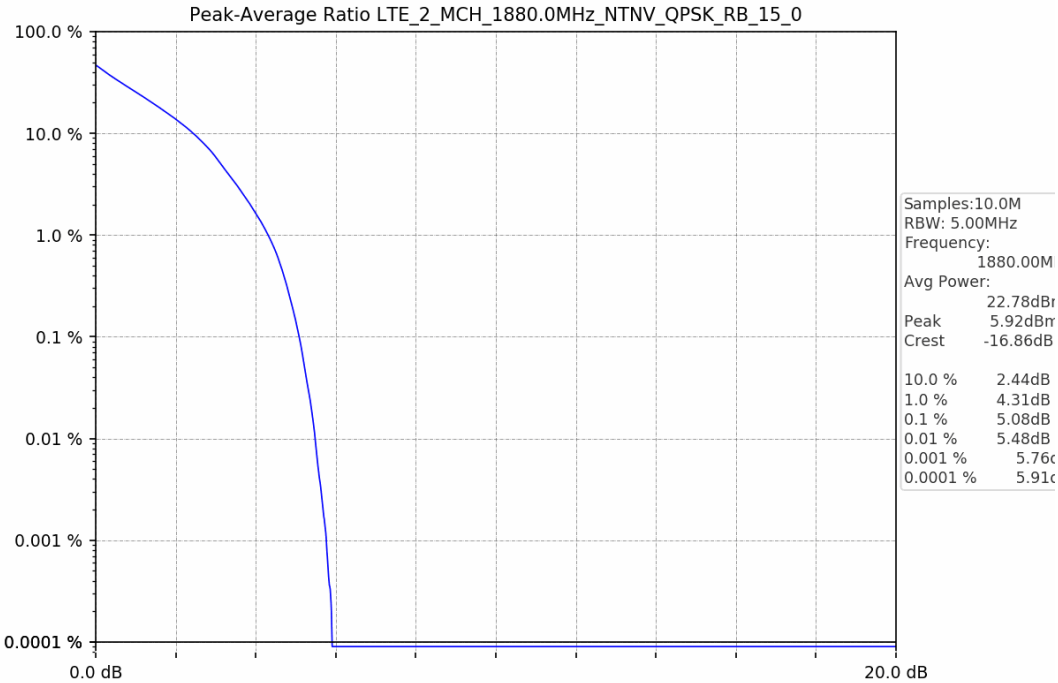




Test Band: 2_3MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	5.17	5.08	5.00	13	PASS
16QAM	15	0	6.06	6.01	5.85	13	PASS







Test Band: 2_5MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	5.17	5.18	5.11	13	PASS
16QAM	25	0	6.00	5.98	5.89	13	PASS

