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Appendix L

Product Name: Siyata SD7

Model: SD7



1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Test Band: 25 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	25.11	22.17	24.14	/	0.38	25.49	22.55	24.52	33.01	PASS	
		2	25.16	22.19	24.15	/	0.38	25.54	22.57	24.53	33.01	PASS	
		5	25.04	22.11	23.78	/	0.38	25.42	22.49	24.16	33.01	PASS	
	3	0	25.15	22.17	23.97	/	0.38	25.53	22.55	24.35	33.01	PASS	
		2	25.15	22.17	24.01	/	0.38	25.53	22.55	24.39	33.01	PASS	
		3	25.12	22.11	23.88	/	0.38	25.50	22.49	24.26	33.01	PASS	
16QAM	6	0	24.12	21.18	23.21	/	0.38	24.50	21.56	23.59	33.01	PASS	
		1		24.36	21.42	23.10	/	0.38	24.74	21.80	23.48	33.01	PASS
			2	24.38	21.46	23.12	/	0.38	24.76	21.84	23.50	33.01	PASS
	5		24.29	21.31	22.99	/	0.38	24.67	21.69	23.37	33.01	PASS	
		3	0	24.44	21.27	23.09	/	0.38	24.82	21.65	23.47	33.01	PASS
			2	24.43	21.31	23.19	/	0.38	24.81	21.69	23.57	33.01	PASS
	3		24.36	21.17	23.11	/	0.38	24.74	21.55	23.49	33.01	PASS	
	6	0	23.26	20.28	22.21	/	0.38	23.64	20.66	22.59	33.01	PASS	
	Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 25 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	25.20	22.38	24.50	/	0.38	25.58	22.76	24.88	33.01	PASS	
		7	25.15	22.33	24.38	/	0.38	25.53	22.71	24.76	33.01	PASS	
		14	24.92	22.16	23.81	/	0.38	25.30	22.54	24.19	33.01	PASS	
	8	0	24.15	21.37	23.37	/	0.38	24.53	21.75	23.75	33.01	PASS	
		4	24.04	21.28	23.33	/	0.38	24.42	21.66	23.71	33.01	PASS	
		7	24.00	21.24	23.22	/	0.38	24.38	21.62	23.60	33.01	PASS	
	15	0	24.06	21.31	23.29	/	0.38	24.44	21.69	23.67	33.01	PASS	
			24.36	21.64	23.85	/	0.38	24.74	22.02	24.23	33.01	PASS	
16QAM	1	7	24.33	21.63	23.75	/	0.38	24.71	22.01	24.13	33.01	PASS	
		14	24.07	21.42	23.52	/	0.38	24.45	21.80	23.90	33.01	PASS	
		0	23.31	20.40	22.48	/	0.38	23.69	20.78	22.86	33.01	PASS	
	8	4	23.26	20.38	22.43	/	0.38	23.64	20.76	22.81	33.01	PASS	
		7	23.15	20.26	22.34	/	0.38	23.53	20.64	22.72	33.01	PASS	
		15	0	23.21	20.33	22.31	/	0.38	23.59	20.71	22.69	33.01	PASS
	Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 25 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	25.25	22.57	24.69	/	0.38	25.63	22.95	25.07	33.01	PASS
		13	25.04	22.30	24.47	/	0.38	25.42	22.68	24.85	33.01	PASS
		24	24.75	22.19	23.95	/	0.38	25.13	22.57	24.33	33.01	PASS
	12	0	24.19	21.49	23.52	/	0.38	24.57	21.87	23.90	33.01	PASS
		6	24.04	21.35	23.45	/	0.38	24.42	21.73	23.83	33.01	PASS



		13	23.88	21.22	23.32	/	0.38	24.26	21.60	23.70	33.01	PASS
	25	0	24.03	21.35	23.39	/	0.38	24.41	21.73	23.77	33.01	PASS
16QAM	1		24.53	21.93	23.54	/	0.38	24.91	22.31	23.92	33.01	PASS
		13	24.29	21.68	23.35	/	0.38	24.67	22.06	23.73	33.01	PASS
		24	23.96	21.54	23.07	/	0.38	24.34	21.92	23.45	33.01	PASS
	12	0	23.26	20.54	22.51	/	0.38	23.64	20.92	22.89	33.01	PASS
		6	23.11	20.41	22.39	/	0.38	23.49	20.79	22.77	33.01	PASS
		13	22.87	20.29	22.26	/	0.38	23.25	20.67	22.64	33.01	PASS
	25	0	23.10	20.36	22.36	/	0.38	23.48	20.74	22.74	33.01	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 25 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	25.48	23.11	24.95	/	0.38	25.86	23.49	25.33	33.01	PASS
		25	24.71	22.26	24.64	/	0.38	25.09	22.64	25.02	33.01	PASS
		49	24.42	22.40	23.81	/	0.38	24.80	22.78	24.19	33.01	PASS
	25	0	24.00	21.62	23.89	/	0.38	24.38	22.00	24.27	33.01	PASS
		13	23.70	21.33	23.65	/	0.38	24.08	21.71	24.03	33.01	PASS
		25	23.35	21.19	23.44	/	0.38	23.73	21.57	23.82	33.01	PASS
	50	0	23.66	21.44	23.68	/	0.38	24.04	21.82	24.06	33.01	PASS
			24.63	22.41	24.53	/	0.38	25.01	22.79	24.91	33.01	PASS
			23.77	21.53	24.07	/	0.38	24.15	21.91	24.45	33.01	PASS
16QAM	1	25	23.35	21.65	23.50	/	0.38	23.73	22.03	23.88	33.01	PASS
		0	23.14	20.74	22.93	/	0.38	23.52	21.12	23.31	33.01	PASS
		13	22.82	20.46	22.63	/	0.38	23.20	20.84	23.01	33.01	PASS
	25	25	22.48	20.27	22.45	/	0.38	22.86	20.65	22.83	33.01	PASS
		0	22.73	20.46	22.69	/	0.38	23.11	20.84	23.07	33.01	PASS
	50	0	22.73	20.46	22.69	/	0.38	23.11	20.84	23.07	33.01	PASS

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

Test Band: 25 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	25.24	23.33	24.79	/	0.38	25.62	23.71	25.17	33.01	PASS
		38	24.45	22.25	24.81	/	0.38	24.83	22.63	25.19	33.01	PASS
		74	24.00	22.47	23.75	/	0.38	24.38	22.85	24.13	33.01	PASS
	36	0	23.94	21.81	23.92	/	0.38	24.32	22.19	24.30	33.01	PASS
		18	23.52	21.43	23.87	/	0.38	23.90	21.81	24.25	33.01	PASS
		39	23.17	21.26	23.59	/	0.38	23.55	21.64	23.97	33.01	PASS
	75	0	23.48	21.53	23.81	/	0.38	23.86	21.91	24.19	33.01	PASS
			24.82	22.55	24.31	/	0.38	25.20	22.93	24.69	33.01	PASS
			23.75	21.53	24.32	/	0.38	24.13	21.91	24.70	33.01	PASS
16QAM	1	74	23.18	21.66	23.45	/	0.38	23.56	22.04	23.83	33.01	PASS
		0	23.03	20.93	23.03	/	0.38	23.41	21.31	23.41	33.01	PASS
		18	22.57	20.51	23.01	/	0.38	22.95	20.89	23.39	33.01	PASS
	36	39	22.18	20.35	22.66	/	0.38	22.56	20.73	23.04	33.01	PASS
		0	22.53	20.66	22.90	/	0.38	22.91	21.04	23.28	33.01	PASS
	75	0	22.53	20.66	22.90	/	0.38	22.91	21.04	23.28	33.01	PASS

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



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Test Band: 25 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	25.11	23.77	24.00	/	0.38	25.49	24.15	24.38	33.01	PASS
		50	24.23	22.32	24.94	/	0.38	24.61	22.70	25.32	33.01	PASS
		99	23.86	23.00	23.76	/	0.38	24.24	23.38	24.14	33.01	PASS
	50	0	23.77	22.00	23.62	/	0.38	24.15	22.38	24.00	33.01	PASS
		25	23.25	21.43	23.87	/	0.38	23.63	21.81	24.25	33.01	PASS
		50	22.85	21.38	23.75	/	0.38	23.23	21.76	24.13	33.01	PASS
	100	0	23.21	21.68	23.69	/	0.38	23.59	22.06	24.07	33.01	PASS
		50	22.84	21.68	23.17	/	0.38	23.22	22.06	23.55	33.01	PASS
		99	23.37	22.18	23.28	/	0.38	23.75	22.56	23.66	33.01	PASS
16QAM	1	0	22.80	21.10	22.62	/	0.38	23.18	21.48	23.00	33.01	PASS
		25	22.22	20.53	22.95	/	0.38	22.60	20.91	23.33	33.01	PASS
		50	21.80	20.46	22.71	/	0.38	22.18	20.84	23.09	33.01	PASS
	50	0	22.26	20.78	22.70	/	0.38	22.64	21.16	23.08	33.01	PASS
		25	21.80	20.46	22.71	/	0.38	22.18	20.84	23.09	33.01	PASS
		50	21.80	20.46	22.71	/	0.38	22.18	20.84	23.09	33.01	PASS
	100	0	22.26	20.78	22.70	/	0.38	22.64	21.16	23.08	33.01	PASS
		25	21.80	20.46	22.71	/	0.38	22.18	20.84	23.09	33.01	PASS
		50	21.80	20.46	22.71	/	0.38	22.18	20.84	23.09	33.01	PASS

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



2. Frequency stability

2.1 Test Result

Test Band: 25 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	- 25.77 78	- 11.65 87	- 7.467 3	-0.0139	-0.0062	-0.0039	2.50	PASS
				NV	- 22.94 54	- 14.72 00	- 8.454 3	-0.0124	-0.0078	-0.0044	2.50	PASS
				HV	- 24.24 72	- 18.01 01	- 10.05 65	-0.0131	-0.0096	-0.0053	2.50	PASS
16QAM	6	0	NT	LV	- 22.74 51	1.988 4	7.696 2	-0.0123	0.0011	0.0040	2.50	PASS
				NV	- 18.83 98	- 4.749 3	9.856 2	-0.0102	-0.0025	0.0051	2.50	PASS
				HV	- 18.18 18	- 2.288 8	4.963 9	-0.0098	-0.0012	0.0026	2.50	PASS

Test Band: 25 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	- 21.30 03	- 15.83 58	- 4.391 7	-0.0115	-0.0084	-0.0023	2.50	PASS
				-20.00	- 21.77 24	- 9.212 5	- 1.072 9	-0.0118	-0.0049	-0.0006	2.50	PASS
				-10.00	- 25.04 83	- 12.57 42	- 5.221 4	-0.0135	-0.0067	-0.0027	2.50	PASS
				0.00	- 23.18 86	- 14.57 69	- 8.940 7	-0.0125	-0.0077	-0.0047	2.50	PASS
				10.00	- 17.88 14	- 16.69 41	- 11.97 34	-0.0097	-0.0089	-0.0063	2.50	PASS
				20.00	- 13.04 63	- 19.54 08	- 1.072 9	-0.0070	-0.0104	-0.0006	2.50	PASS
				30.00	- 12.27 38	- 21.88 68	- 7.653 2	-0.0066	-0.0116	-0.0040	2.50	PASS
				40.00	- 12.96 04	- 22.34 46	- 10.34 26	-0.0070	-0.0119	-0.0054	2.50	PASS
				50.00	- 12.10 21	- 21.45 77	- 3.204 3	-0.0065	-0.0114	-0.0017	2.50	PASS



16QAM	6	0	NV	-30.00	- 18.16 75	- 1.859 7	12.33 10	-0.0098	-0.0010	0.0064	2.50	PASS
				-20.00	- 14.90 59	- 8.668 9	11.07 22	-0.0081	-0.0046	0.0058	2.50	PASS
				-10.00	- 10.09 94	- 0.243 2	7.023 8	-0.0055	-0.0001	0.0037	2.50	PASS
				0.00	- 10.92 91	- 4.477 5	6.566 0	-0.0059	-0.0024	0.0034	2.50	PASS
				10.00	- 11.20 09	- 0.343 3	2.031 3	-0.0061	-0.0002	0.0011	2.50	PASS
				20.00	- 10.34 26	- 3.433 2	7.824 9	-0.0056	-0.0018	0.0041	2.50	PASS
				30.00	- 8.983 6	- 0.629 4	4.763 6	-0.0049	0.0003	0.0025	2.50	PASS
				40.00	- 14.63 41	- 1.974 1	8.168 2	-0.0079	0.0010	0.0043	2.50	PASS
				50.00	- 4.391 7	- 3.747 9	- 0.042 9	-0.0024	-0.0020	0.0000	2.50	PASS

Test Band: 25 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	10.15 66	- 8.025 2	7.252 7	0.0055	-0.0043	0.0038	2.50	PASS
				NV	8.211 1	- 2.102 9	- 4.148 5	0.0044	-0.0011	-0.0022	2.50	PASS
				HV	6.594 7	- 8.211 1	2.846 7	0.0036	-0.0044	0.0015	2.50	PASS
16QAM	15	0	NT	LV	6.022 5	- 0.901 2	7.739 1	0.0033	-0.0005	0.0040	2.50	PASS
				NV	9.799 0	- 2.303 1	- 1.101 5	0.0053	-0.0012	-0.0006	2.50	PASS
				HV	9.355 5	- 2.417 6	8.497 2	0.0051	-0.0013	0.0044	2.50	PASS

Test Band: 25_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	4.334 4	- 10.11 37	- 3.089 9	0.0023	-0.0054	-0.0016	2.50	PASS



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				-20.00	11.18 66	- 3.218 7	0.286 1	0.0060	-0.0017	0.0001	2.50	PASS
				-10.00	11.50 13	0.815 4	8.239 7	0.0062	0.0004	0.0043	2.50	PASS
				0.00	4.835 1	- 13.38 96	- 3.233 0	0.0026	-0.0071	-0.0017	2.50	PASS
				10.00	6.709 1	- 8.068 1	6.809 2	0.0036	-0.0043	0.0036	2.50	PASS
				20.00	10.55 72	- 5.350 1	- 3.233 0	0.0057	-0.0028	-0.0017	2.50	PASS
				30.00	3.290 2	- 7.638 9	6.537 4	0.0018	-0.0041	0.0034	2.50	PASS
				40.00	9.698 9	- 7.524 5	- 5.335 8	0.0052	-0.0040	-0.0028	2.50	PASS
				50.00	10.71 45	- 1.516 3	4.978 2	0.0058	-0.0008	0.0026	2.50	PASS
16QAM	15	0	NV	-30.00	9.212 5	- 1.831 1	- 2.875 3	0.0050	-0.0010	-0.0015	2.50	PASS
				-20.00	8.411 4	- 8.010 9	5.264 3	0.0045	-0.0043	0.0028	2.50	PASS
				-10.00	4.363 1	- 8.797 6	- 4.077 0	0.0024	-0.0047	-0.0021	2.50	PASS
				0.00	7.410 0	- 9.913 4	1.144 4	0.0040	-0.0053	0.0006	2.50	PASS
				10.00	9.040 8	- 8.411 4	8.268 4	0.0049	-0.0045	0.0043	2.50	PASS
				20.00	3.404 6	- 7.638 9	- 3.390 3	0.0018	-0.0041	-0.0018	2.50	PASS
				30.00	6.351 5	- 3.933 9	3.848 1	0.0034	-0.0021	0.0020	2.50	PASS
				40.00	7.252 7	- 3.290 2	- 6.980 9	0.0039	-0.0017	-0.0036	2.50	PASS
				50.00	5.679 1	- 0.901 2	- 0.858 3	0.0031	-0.0005	-0.0004	2.50	PASS

Test Band: 25 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	- 5.064 0	- 8.125 3	- 7.252 7	-0.0027	-0.0043	-0.0038	2.50	PASS



				NV	- 4.878 0	- 3.233 0	- 10.70 02	-0.0026	-0.0017	-0.0056	2.50	PASS
				HV	- 8.969 3	- 1.044 3	- 4.048 3	-0.0048	-0.0006	0.0021	2.50	PASS
16QAM	25	0	NT	LV	- 6.165 5	- 6.265 6	- 3.247 3	-0.0033	-0.0033	-0.0017	2.50	PASS
				NV	- 1.945 5	- 0.386 2	- 9.784 7	-0.0011	-0.0002	-0.0051	2.50	PASS
				HV	- 3.919 6	- 9.684 6	- 4.820 8	-0.0021	-0.0051	0.0025	2.50	PASS

Test Band: 25 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	- 6.623 3	- 2.961 2	- 1.673 7	-0.0036	-0.0016	-0.0009	2.50	PASS
				-20.00	- 6.551 7	- 9.784 7	- 10.02 79	-0.0035	-0.0052	-0.0052	2.50	PASS
				-10.00	- 6.551 7	- 2.660 8	- 0.286 1	-0.0035	-0.0014	0.0001	2.50	PASS
				0.00	- 6.566 0	- 0.457 8	- 1.215 9	-0.0035	-0.0002	-0.0006	2.50	PASS
				10.00	- 7.467 3	- 12.23 09	- 8.368 5	-0.0040	-0.0065	-0.0044	2.50	PASS
				20.00	- 3.047 0	- 8.411 4	- 4.377 4	-0.0016	-0.0045	-0.0023	2.50	PASS
				30.00	- 9.369 8	- 1.459 1	- 0.557 9	-0.0051	-0.0008	-0.0003	2.50	PASS
				40.00	- 4.191 4	- 1.144 4	- 6.752 0	-0.0023	0.0006	-0.0035	2.50	PASS
				50.00	- 4.549 0	- 8.769 0	- 11.41 55	-0.0025	-0.0047	-0.0060	2.50	PASS
16QAM	25	0	NV	-30.00	- 2.961 2	- 9.069 4	- 1.287 5	-0.0016	-0.0048	-0.0007	2.50	PASS
				-20.00	- 3.118 5	- 3.962 5	- 4.191 4	-0.0017	-0.0021	-0.0022	2.50	PASS
				-10.00	- 5.722 0	- 0.357 6	- 8.411 4	-0.0031	0.0002	-0.0044	2.50	PASS
				0.00	- 0.014 3	- 3.676	- 8.883	0.0000	-0.0020	-0.0046	2.50	PASS



						4	5					
				10.00	6.108 3	8.282 7	1.487 7	-0.0033	-0.0044	0.0008	2.50	PASS
				20.00	1.974 1	3.776 6	4.677 8	-0.0011	-0.0020	-0.0024	2.50	PASS
				30.00	1.630 8	0.515 0	6.737 7	0.0009	-0.0003	-0.0035	2.50	PASS
				40.00	2.760 9	11.18 66	3.805 2	-0.0015	-0.0059	0.0020	2.50	PASS
				50.00	7.453 0	5.707 7	0.100 1	-0.0040	-0.0030	-0.0001	2.50	PASS

Test Band: 25 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	0.944 1	- 4.520 4	5.722 0	0.0005	-0.0024	0.0030	2.50	PASS
				NV	- 1.258 8	- 8.826 3	8.068 1	-0.0007	-0.0047	0.0042	2.50	PASS
				HV	- 1.044 3	- 4.305 8	1.645 1	-0.0006	-0.0023	0.0009	2.50	PASS
16QAM	50	0	NT	LV	1.273 2	- 6.938 0	8.554 5	0.0007	-0.0037	0.0045	2.50	PASS
				NV	- 0.515 0	- 4.735 0	3.175 7	-0.0003	-0.0025	0.0017	2.50	PASS
				HV	0.071 5	- 3.976 8	0.214 6	0.0000	-0.0021	0.0001	2.50	PASS

Test Band: 25 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	1.530 6	- 6.809 2	15.06 33	0.0008	-0.0036	0.0079	2.50	PASS
				-20.00	1.287 5	- 12.64 57	4.863 7	0.0007	-0.0067	0.0025	2.50	PASS
				-10.00	1.688 0	- 10.11 37	4.448 9	0.0009	-0.0054	0.0023	2.50	PASS
				0.00	- 2.360 3	- 8.111 0	8.053 8	-0.0013	-0.0043	0.0042	2.50	PASS
				10.00	- 1.559	- 10.78	2.975 5	-0.0008	-0.0057	0.0016	2.50	PASS



					3	61						
				20.00	0.972 7	- 8.125 3	13.18 93	0.0005	-0.0043	0.0069	2.50	PASS
				30.00	- 0.042 9	- 3.976 8	7.252 7	0.0000	-0.0021	0.0038	2.50	PASS
				40.00	2.818 1	- 1.444 8	- 1.158 7	0.0015	-0.0008	-0.0006	2.50	PASS
				50.00	5.450 2	- 1.273 2	2.088 5	0.0029	-0.0007	0.0011	2.50	PASS
16QAM	50	0	NV	-30.00	- 3.676 4	- 2.532 0	8.168 2	-0.0020	-0.0013	0.0043	2.50	PASS
				-20.00	- 0.643 7	- 2.961 2	2.560 6	-0.0003	-0.0016	0.0013	2.50	PASS
				-10.00	2.560 6	- 3.347 4	6.079 7	0.0014	-0.0018	0.0032	2.50	PASS
				0.00	- 3.747 9	- 7.982 3	0.929 8	-0.0020	-0.0042	0.0005	2.50	PASS
				10.00	- 7.553 1	- 10.84 33	10.35 69	-0.0041	-0.0058	0.0054	2.50	PASS
				20.00	- 2.374 6	- 7.281 3	7.481 6	-0.0013	-0.0039	0.0039	2.50	PASS
				30.00	- 0.672 3	- 0.371 9	0.729 6	-0.0004	0.0002	0.0004	2.50	PASS
				40.00	- 0.429 2	- 2.689 4	5.993 8	-0.0002	0.0014	0.0031	2.50	PASS
				50.00	- 5.292 9	- 9.570 1	6.165 5	-0.0029	-0.0051	0.0032	2.50	PASS

Test Band: 25_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	12.70 29	- 5.335 8	0.314 7	0.0068	-0.0028	0.0002	2.50	PASS
				NV	7.782 0	- 6.308 6	1.974 1	0.0042	-0.0034	0.0010	2.50	PASS
				HV	3.562 0	- 7.438 7	- 0.629 4	0.0019	-0.0040	-0.0003	2.50	PASS
16QAM	75	0	NT	LV	5.750 7	- 1.945 5	0.643 7	0.0031	-0.0010	0.0003	2.50	PASS
				NV	4.963	-	-	0.0027	-0.0024	-0.0010	2.50	PASS



					9	4.448 9	1.888 3					
				HV	2.074 2	- 5.793 6	- 0.500 7	0.0011	-0.0031	-0.0003	2.50	PASS

Test Band: 25_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	7.953 6	- 5.307 2	- 1.874 0	0.0043	-0.0028	-0.0010	2.50	PASS
				-20.00	7.123 9	- 6.094 0	- 0.214 6	0.0038	-0.0032	-0.0001	2.50	PASS
				-10.00	2.117 2	- 4.677 8	- 5.078 3	0.0011	-0.0025	-0.0027	2.50	PASS
				0.00	9.141 0	- 1.230 2	0.042 9	0.0049	-0.0007	0.0000	2.50	PASS
				10.00	6.079 7	- 7.181 2	6.666 2	0.0033	-0.0038	0.0035	2.50	PASS
				20.00	5.493 2	- 3.118 5	- 5.278 6	0.0030	-0.0017	-0.0028	2.50	PASS
				30.00	10.81 47	- 1.945 5	- 0.715 3	0.0058	-0.0010	-0.0004	2.50	PASS
				40.00	2.703 7	- 3.619 2	7.381 4	0.0015	-0.0019	0.0039	2.50	PASS
				50.00	9.570 1	- 4.034 0	- 2.059 9	0.0052	-0.0021	-0.0011	2.50	PASS
16QAM	75	0	NV	-30.00	4.391 7	- 6.809 2	3.204 3	0.0024	-0.0036	0.0017	2.50	PASS
				-20.00	9.584 4	- 6.895 1	- 3.476 1	0.0052	-0.0037	-0.0018	2.50	PASS
				-10.00	7.524 5	- 7.824 9	- 3.347 4	0.0041	-0.0042	-0.0018	2.50	PASS
				0.00	0.128 7	- 7.553 1	1.115 8	0.0001	-0.0040	0.0006	2.50	PASS
				10.00	9.040 8	- 6.294 2	4.878 0	0.0049	-0.0033	0.0026	2.50	PASS
				20.00	6.322 9	- 4.677 8	- 3.733 6	0.0034	-0.0025	-0.0020	2.50	PASS
				30.00	12.70 29	- 3.590 6	3.376 0	0.0068	-0.0019	0.0018	2.50	PASS



				40.00	4.277 2	- 9.455 7	- 1.945 5	0.0023	-0.0050	-0.0010	2.50	PASS
				50.00	11.01 49	- 5.250 0	- 1.230 2	0.0059	-0.0028	-0.0006	2.50	PASS

Test Band: 25 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	- 11.24 38	- 6.394 4	- 6.151 2	-0.0060	-0.0034	-0.0032	2.50	PASS
				NV	- 1.058 6	- 6.423 0	- 7.166 9	-0.0006	-0.0034	-0.0038	2.50	PASS
				HV	- 7.939 3	- 6.108 3	- 6.723 4	-0.0043	-0.0032	-0.0035	2.50	PASS
16QAM	100	0	NT	LV	- 4.577 6	- 4.591 9	- 5.335 8	-0.0025	-0.0024	-0.0028	2.50	PASS
				NV	- 7.810 6	- 5.078 3	- 7.739 1	-0.0042	-0.0027	-0.0041	2.50	PASS
				HV	- 3.175 7	- 7.352 8	- 5.006 8	-0.0017	-0.0039	-0.0026	2.50	PASS

Test Band: 25 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	- 3.504 8	- 7.481 6	- 5.192 8	-0.0019	-0.0040	-0.0027	2.50	PASS
				-20.00	- 11.02 92	- 6.079 7	- 5.836 5	-0.0059	-0.0032	-0.0031	2.50	PASS
				-10.00	- 0.228 9	- 7.710 5	- 5.765 0	0.0001	-0.0041	-0.0030	2.50	PASS
				0.00	- 9.369 8	- 6.022 5	- 6.952 3	-0.0050	-0.0032	-0.0036	2.50	PASS
				10.00	- 3.333 1	- 4.434 6	- 7.982 3	-0.0018	-0.0024	-0.0042	2.50	PASS
				20.00	/	- 6.952 3	- 6.237 0	/	-0.0037	-0.0033	2.50	PASS
				30.00	/	- 3.762 2	- 6.008 1	/	-0.0020	-0.0032	2.50	PASS
				40.00	/	- 5.779 3	- 6.580 4	/	-0.0031	-0.0035	2.50	PASS



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				50.00	/	- 8.726 1	- 3.805 2	/	-0.0046	-0.0020	2.50	PASS
16QAM	100	0	NV	-30.00	- 5.993 8	- 8.239 7	- 10.58 58	-0.0032	-0.0044	-0.0056	2.50	PASS
				-20.00	0.057 2	- 6.609 0	- 0.715 3	0.0000	-0.0035	-0.0004	2.50	PASS
				-10.00	- 5.307 2	- 9.026 5	- 9.284 0	-0.0029	-0.0048	-0.0049	2.50	PASS
				0.00	- 6.794 9	- 1.459 1	- 5.879 4	-0.0037	-0.0008	-0.0031	2.50	PASS
				10.00	- 9.784 7	- 8.997 9	- 7.081 0	-0.0053	-0.0048	-0.0037	2.50	PASS
				20.00	- 2.789 5	- 8.840 6	- 7.839 2	-0.0015	-0.0047	-0.0041	2.50	PASS
				30.00	- 7.996 6	- 6.737 7	- 1.702 3	-0.0043	-0.0036	-0.0009	2.50	PASS
				40.00	- 15.00 61	- 7.638 9	- 9.884 8	-0.0081	-0.0041	-0.0052	2.50	PASS
				50.00	- 0.028 6	- 2.660 8	0.214 6	0.0000	-0.0014	0.0001	2.50	PASS

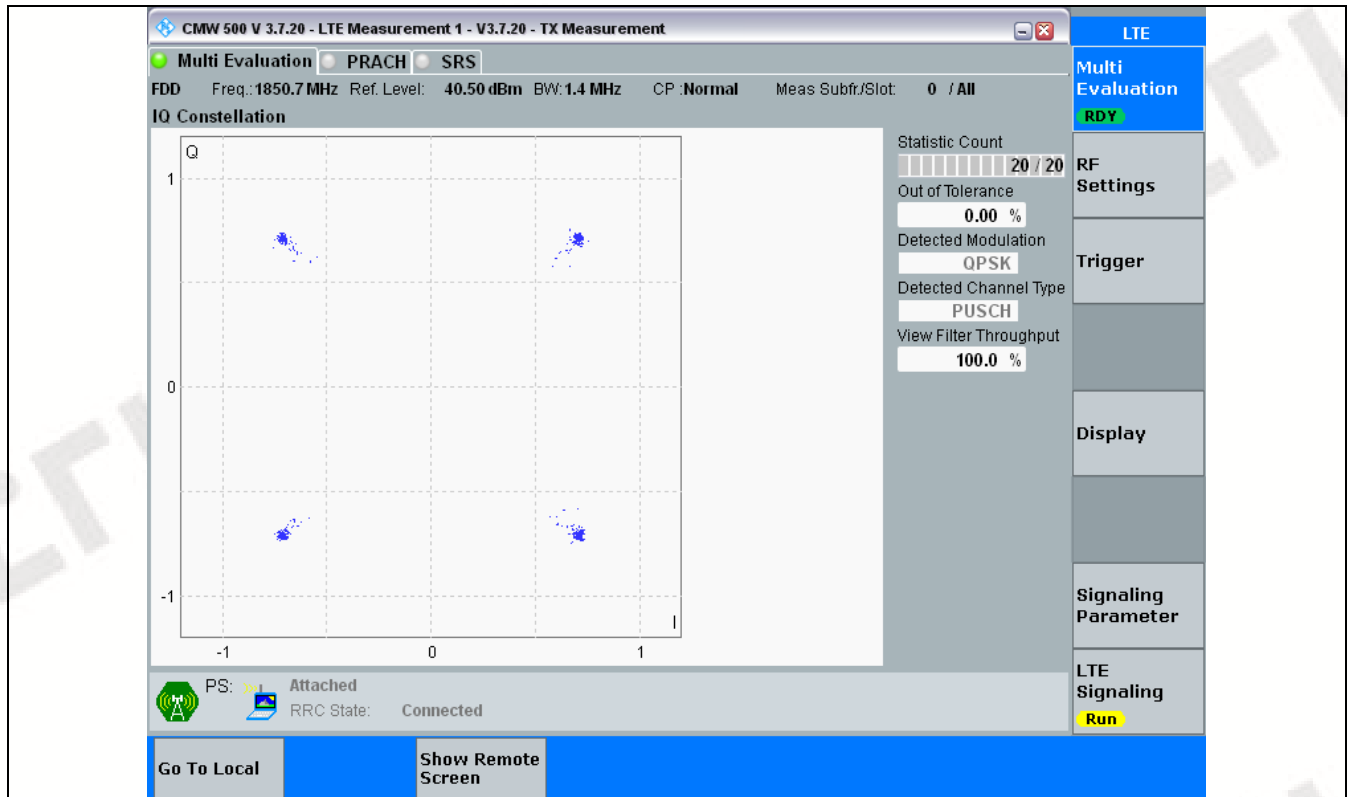


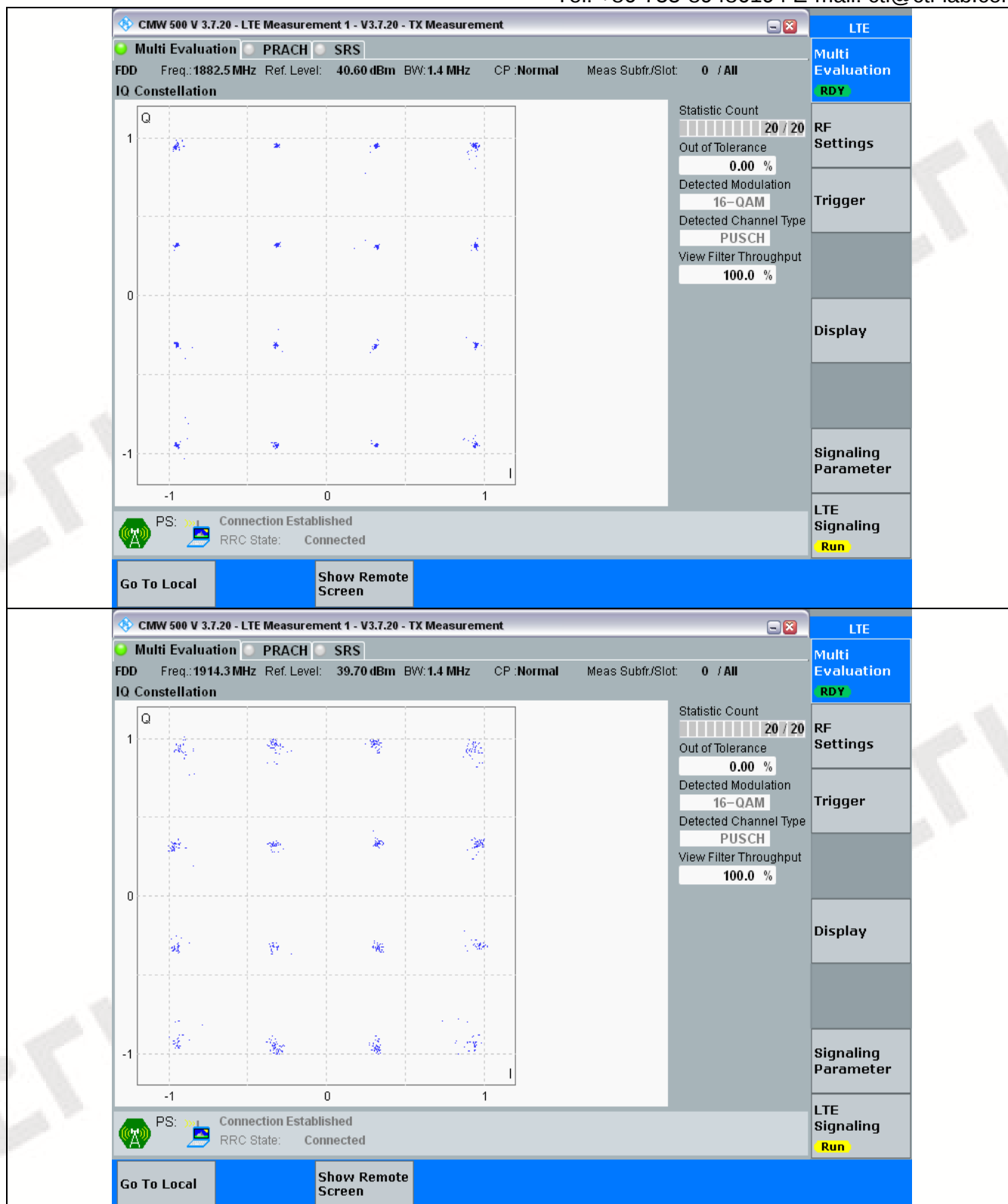
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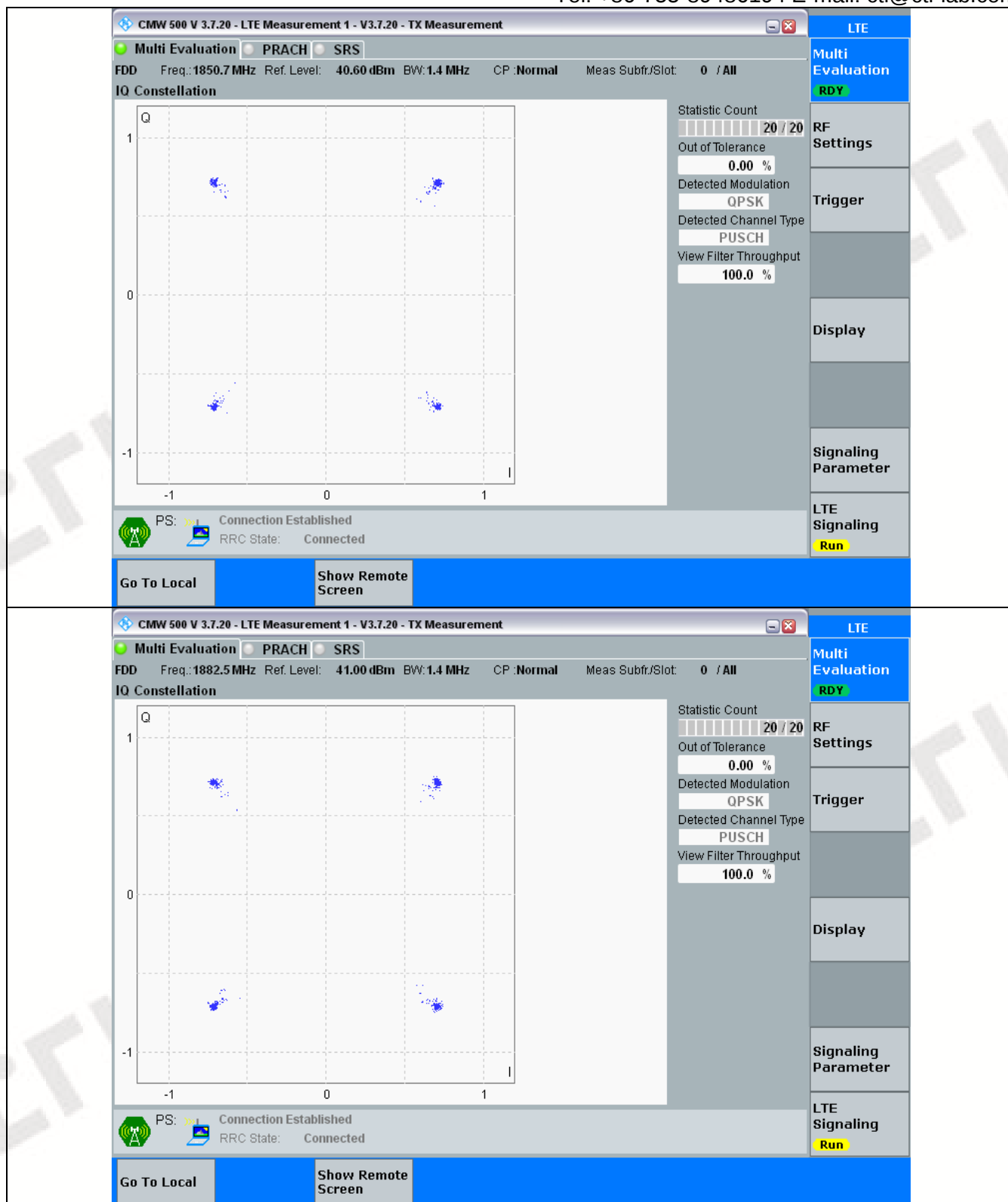
Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

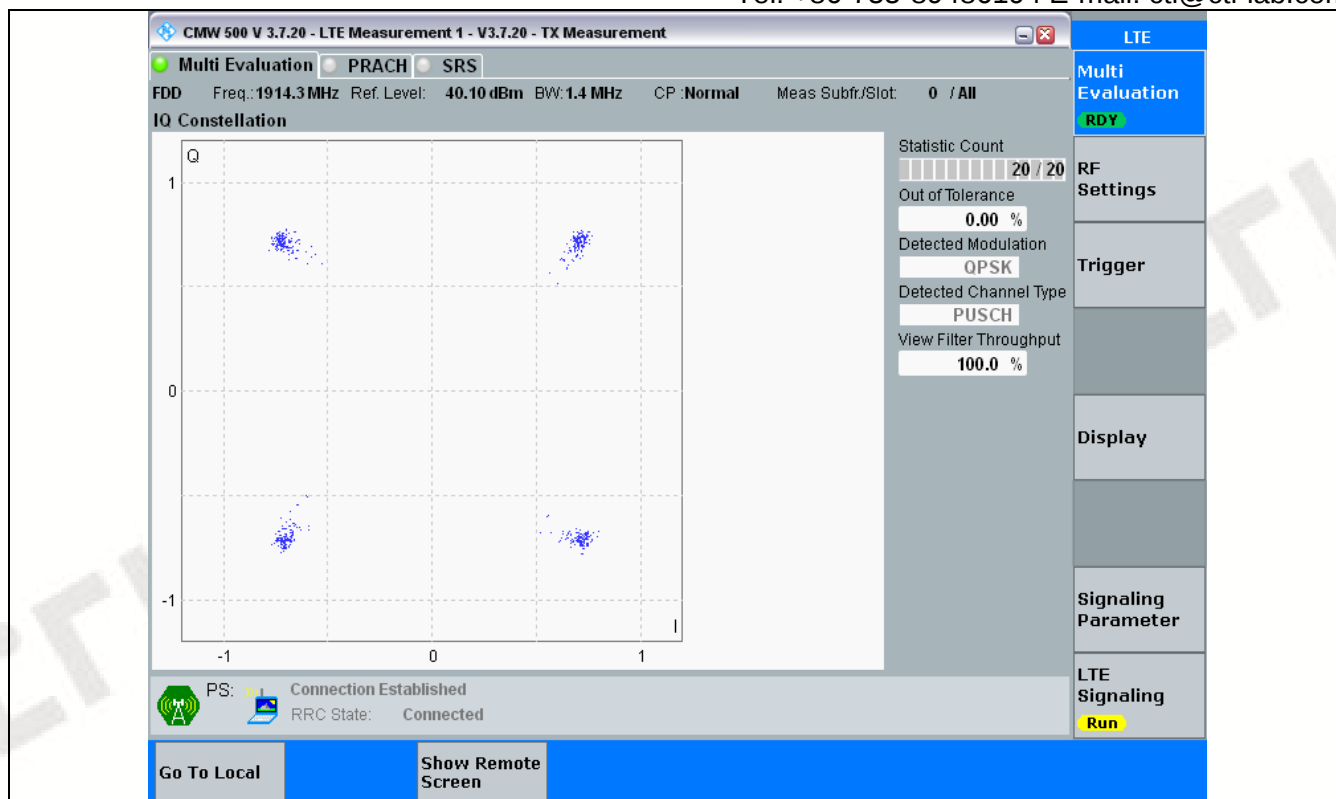
3. Modulation Characteristics

3.1 Test Graph







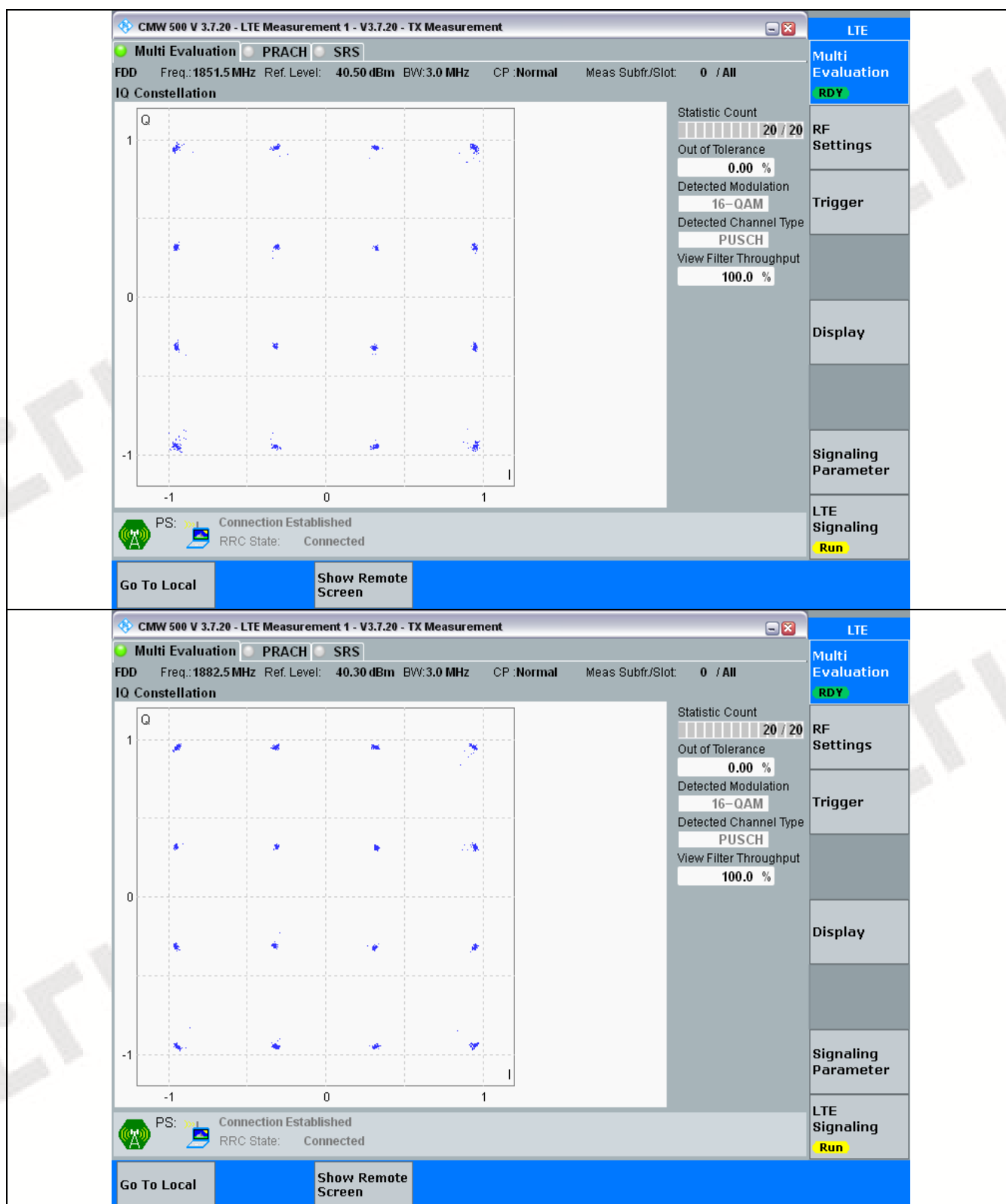


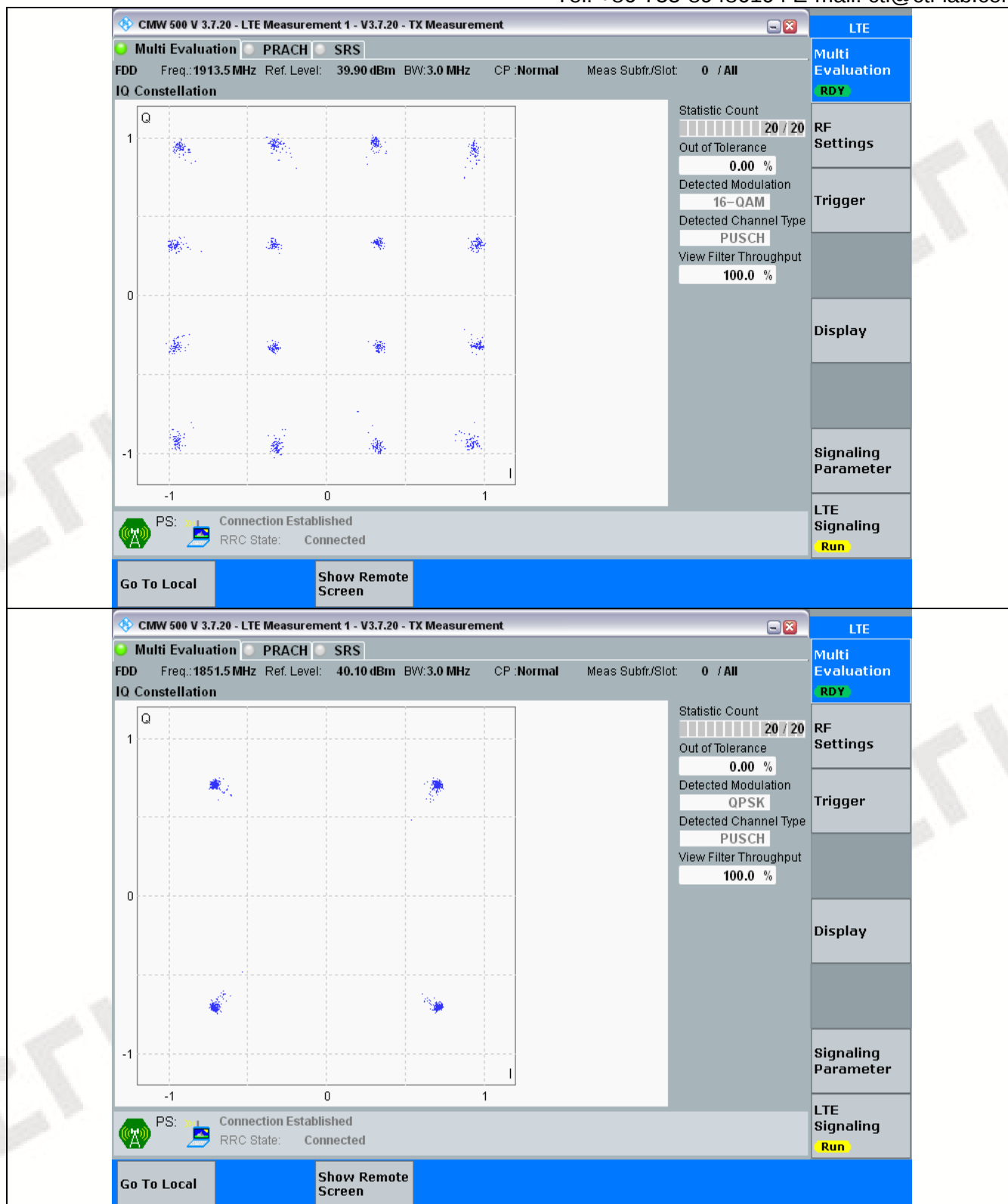


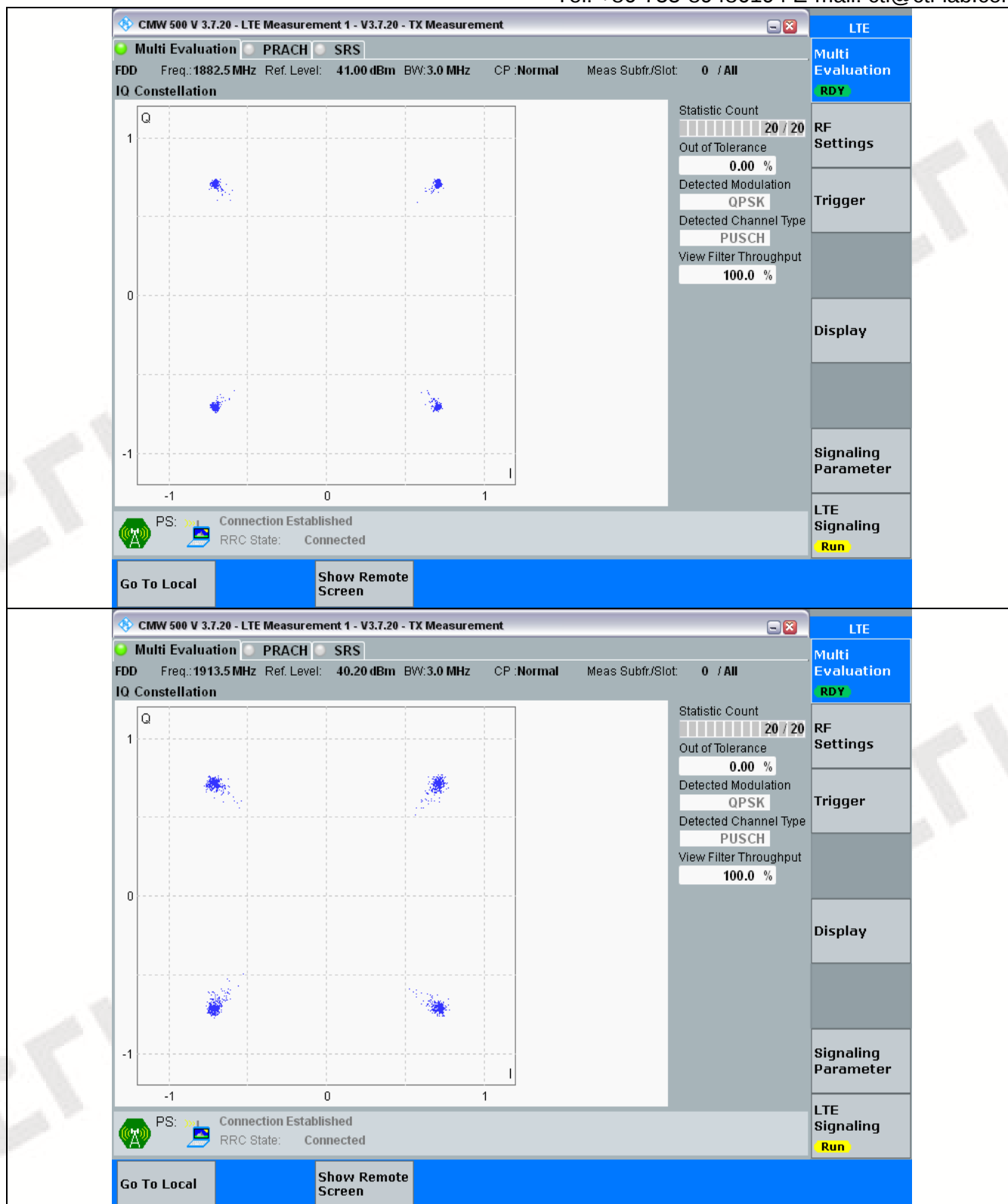
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3.1 Test Graph





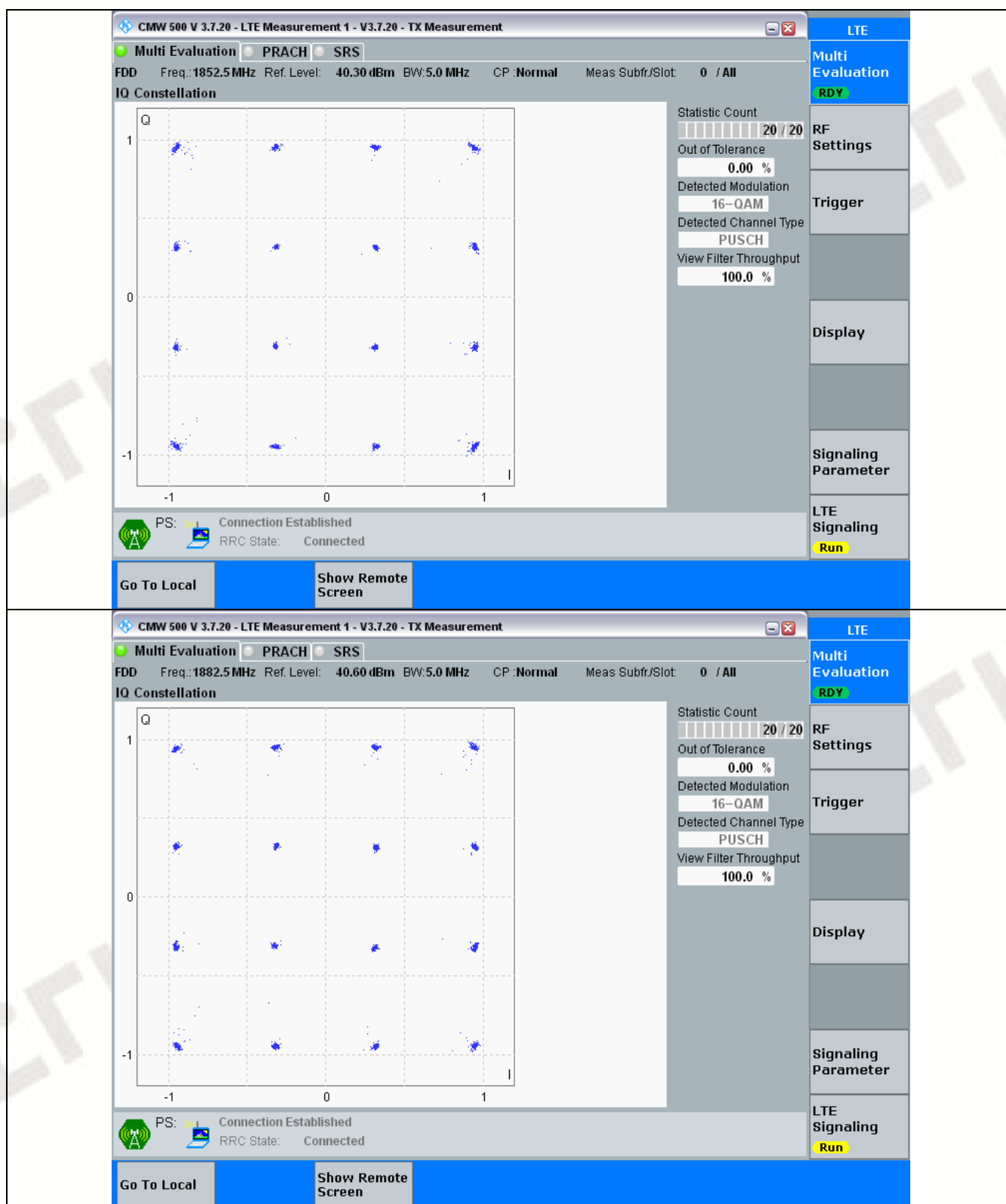


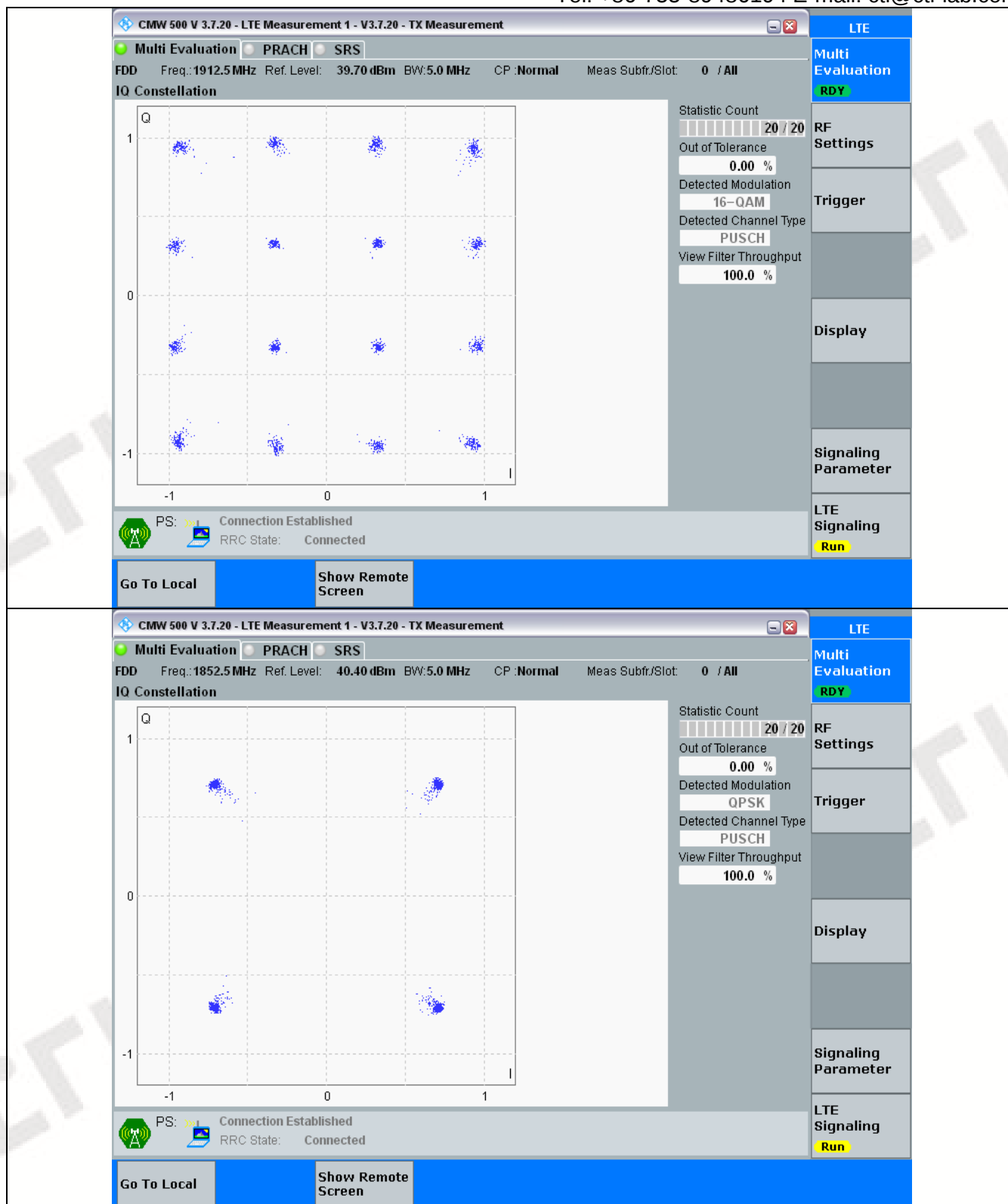


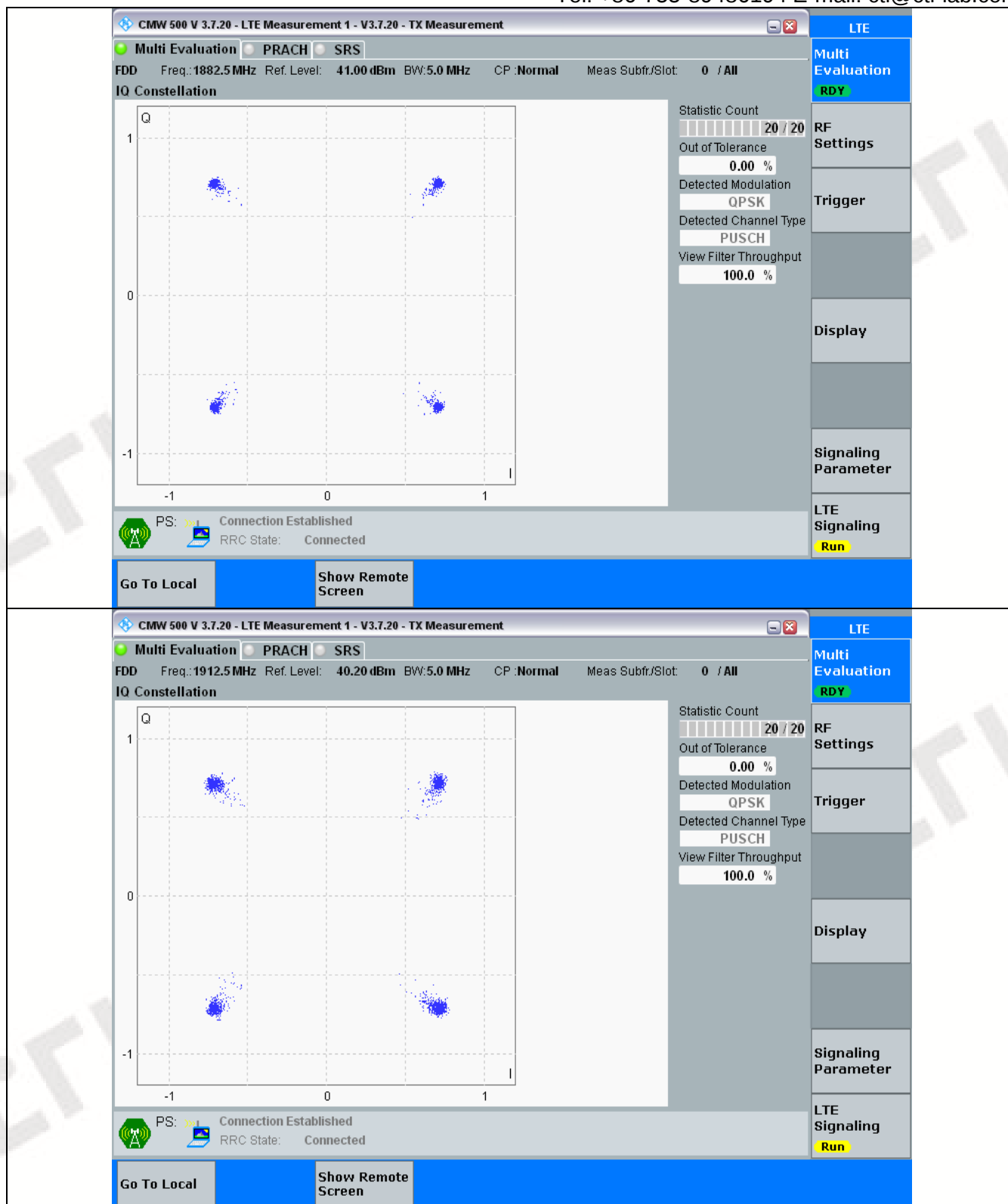
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3.1 Test Graph

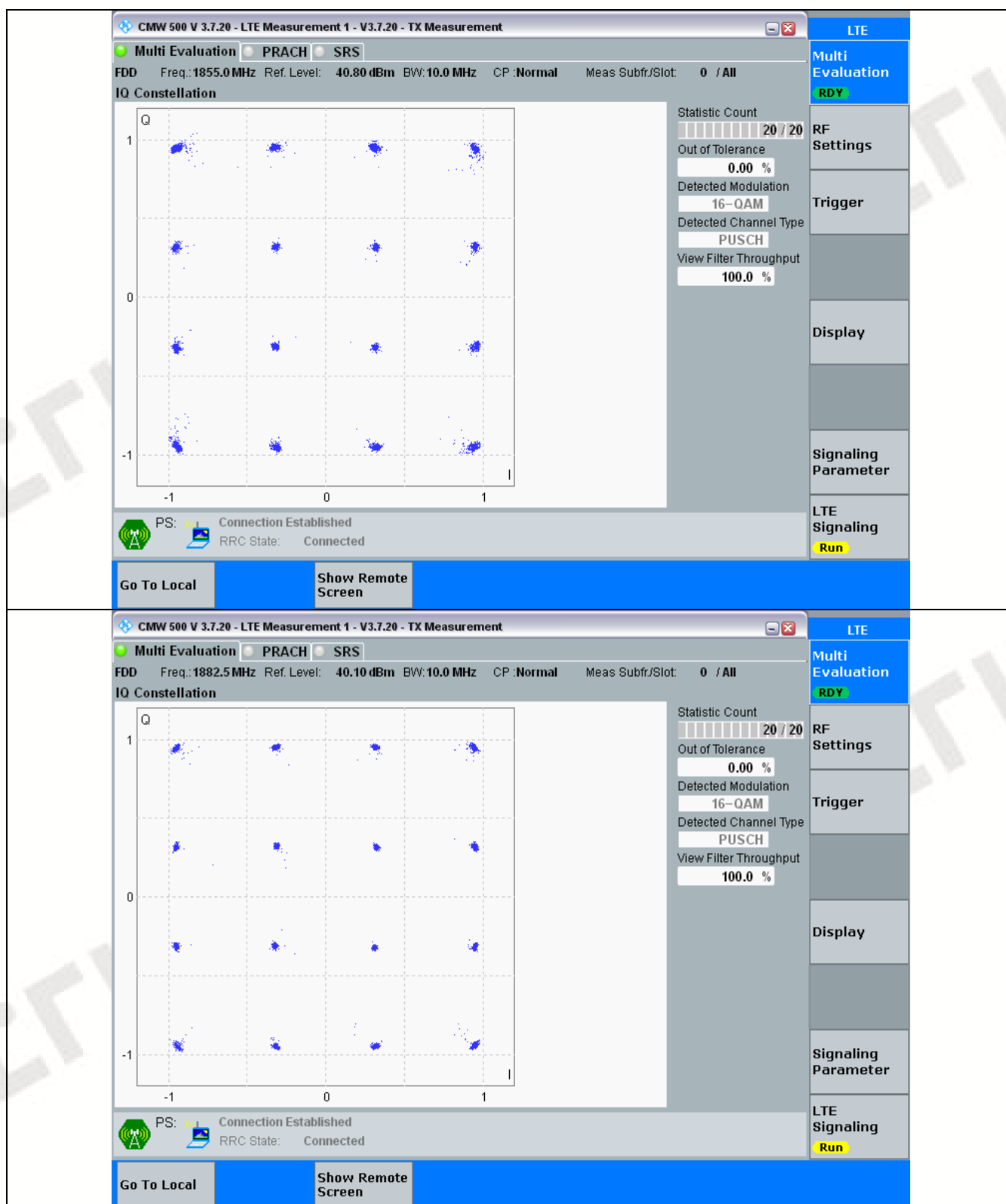


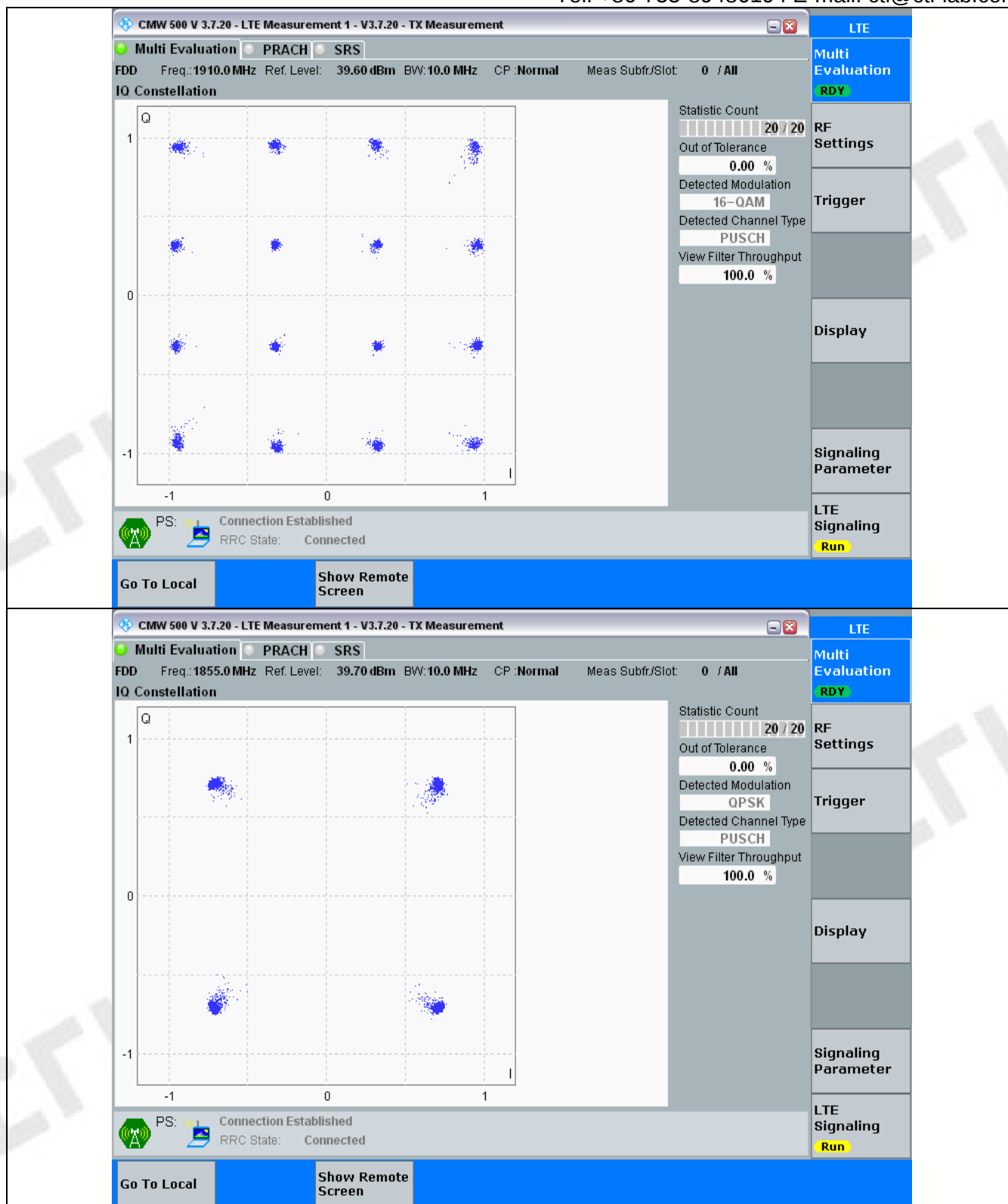


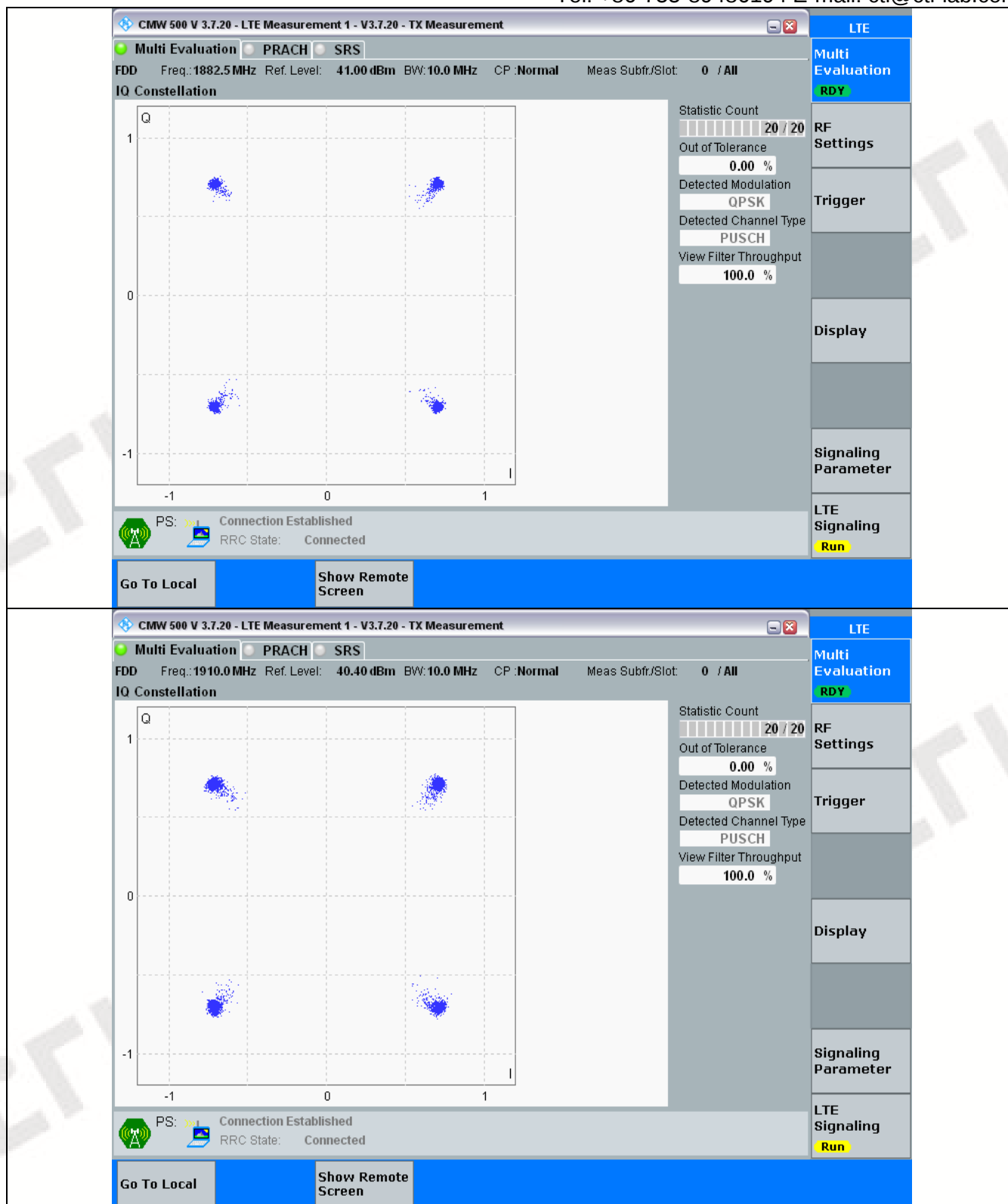




3.1 Test Graph

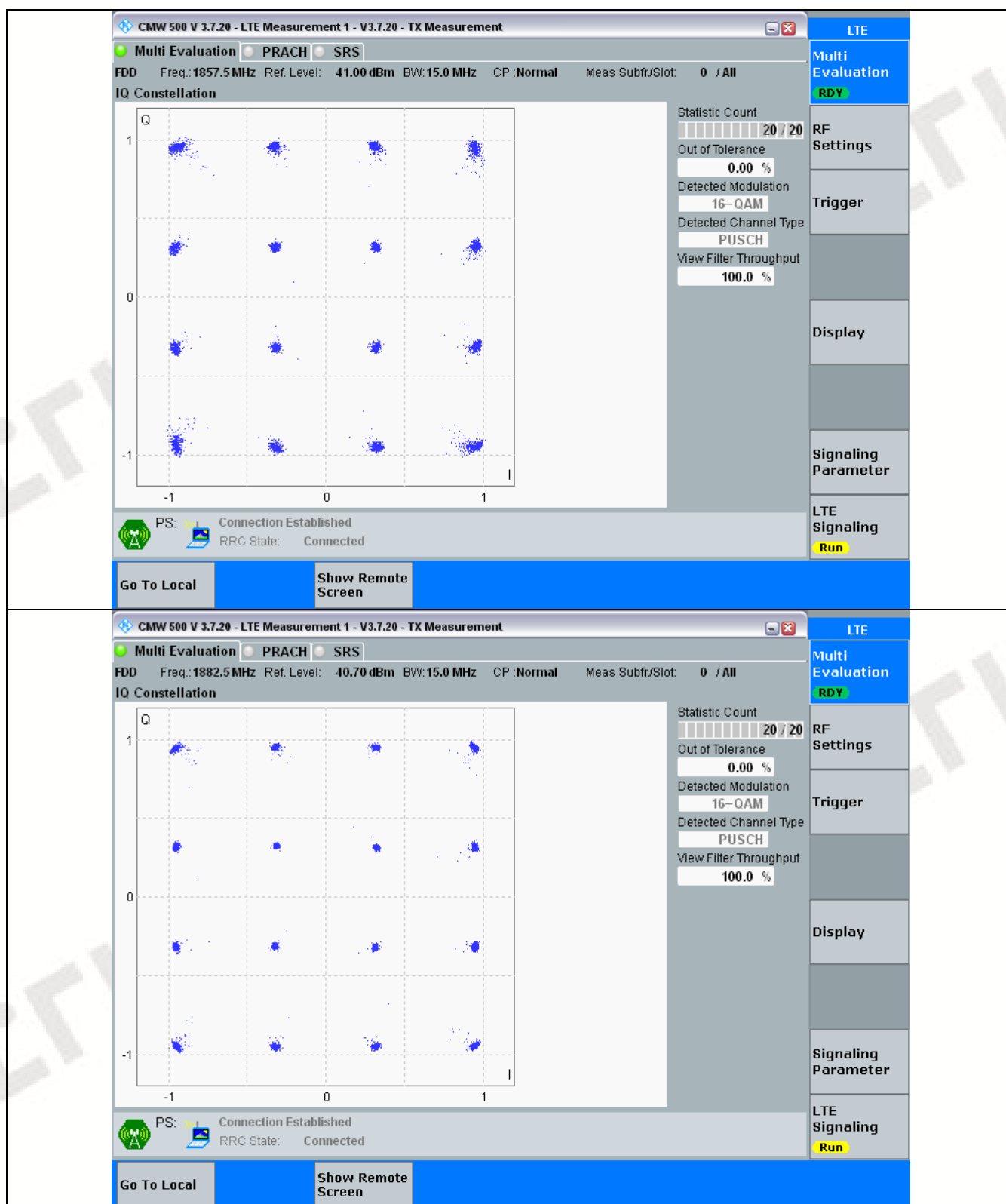


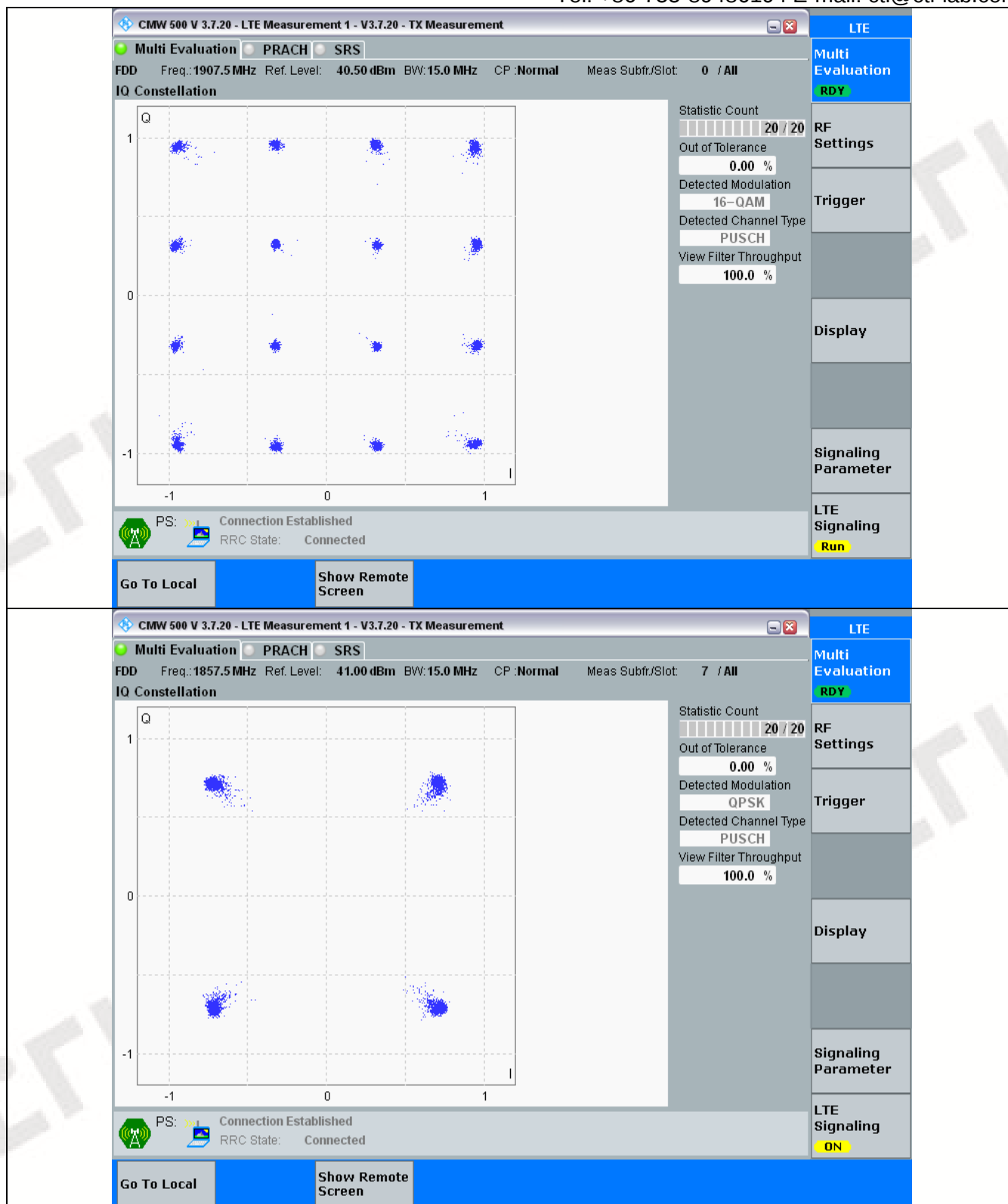


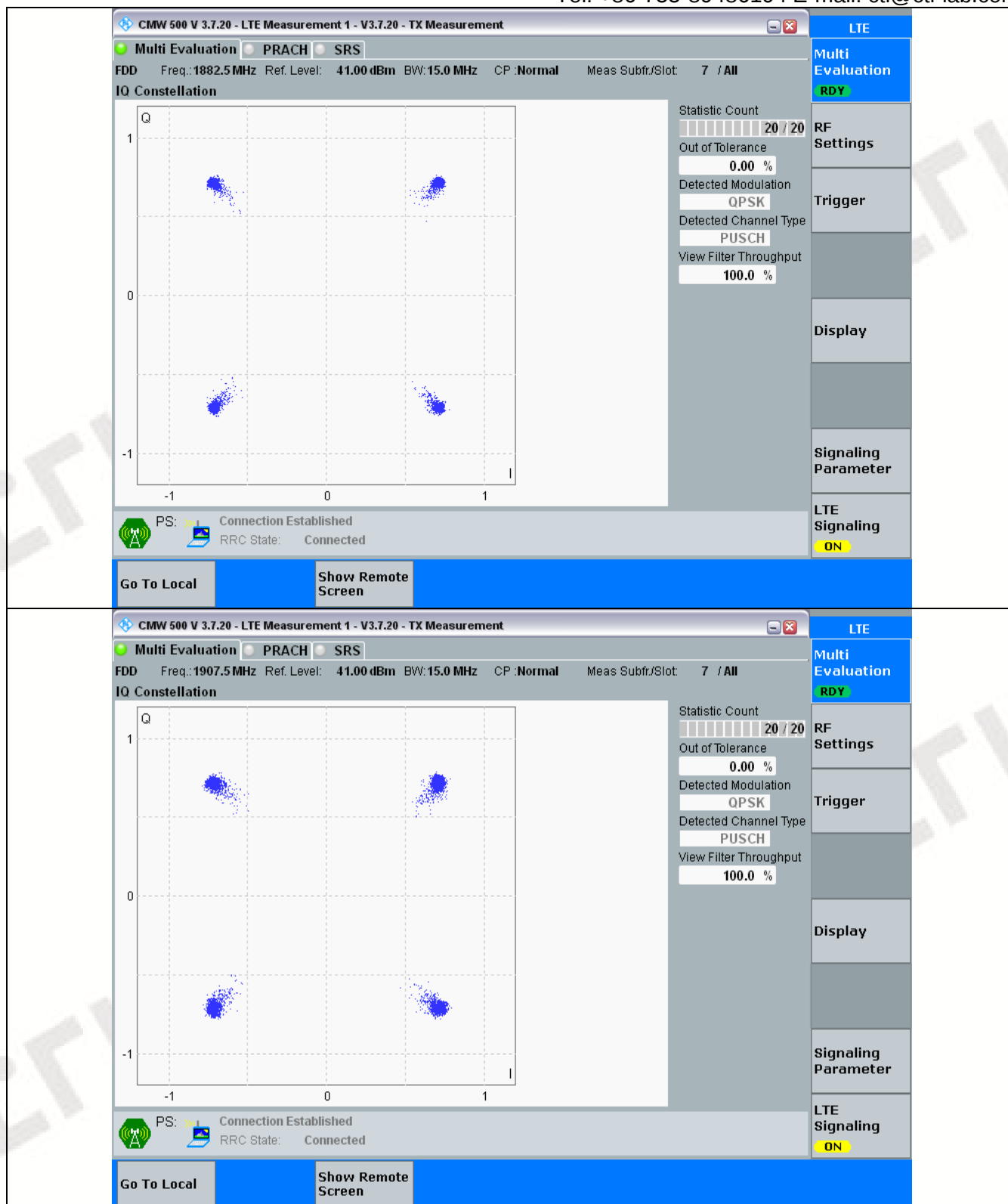




3.1 Test Graph

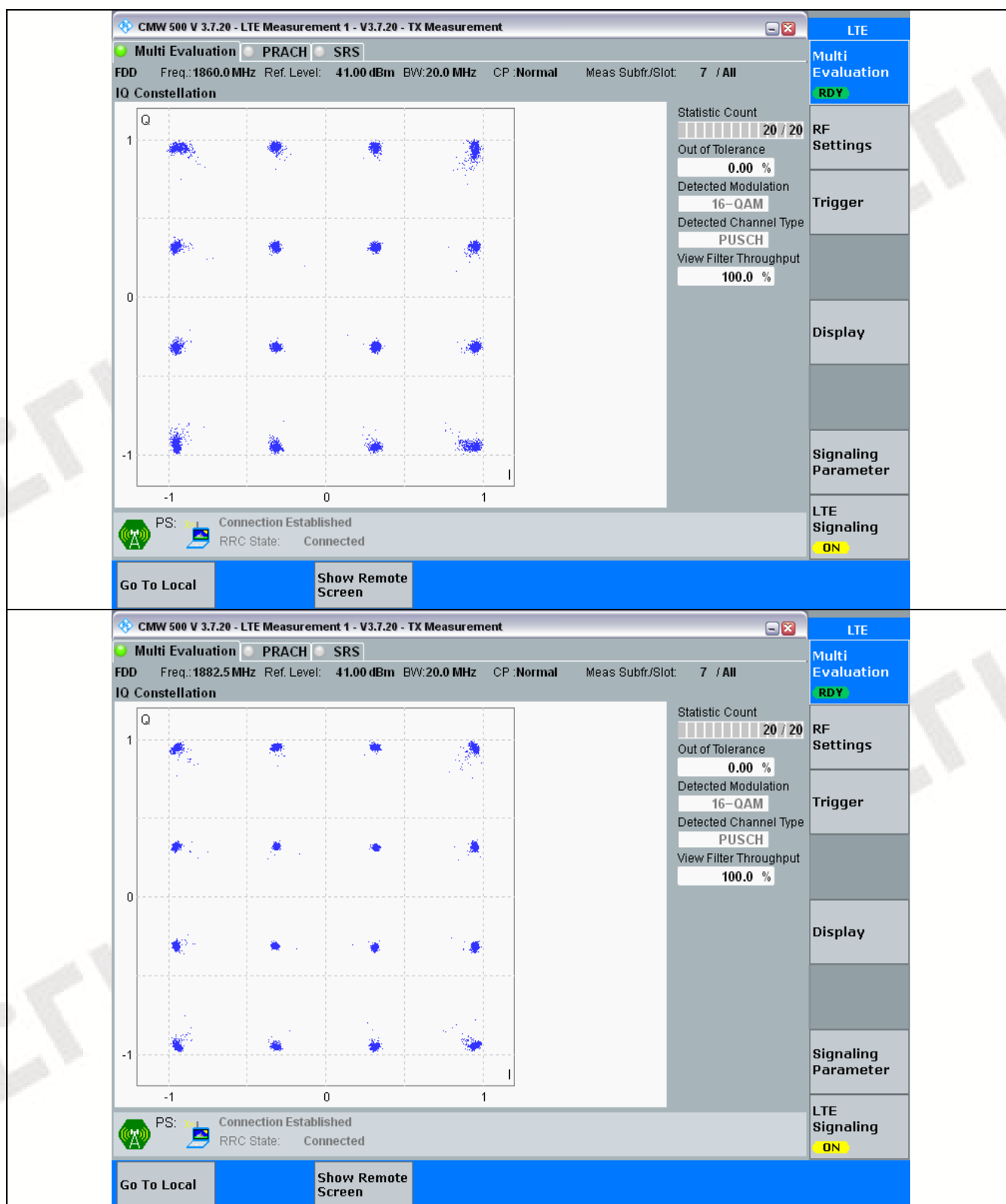


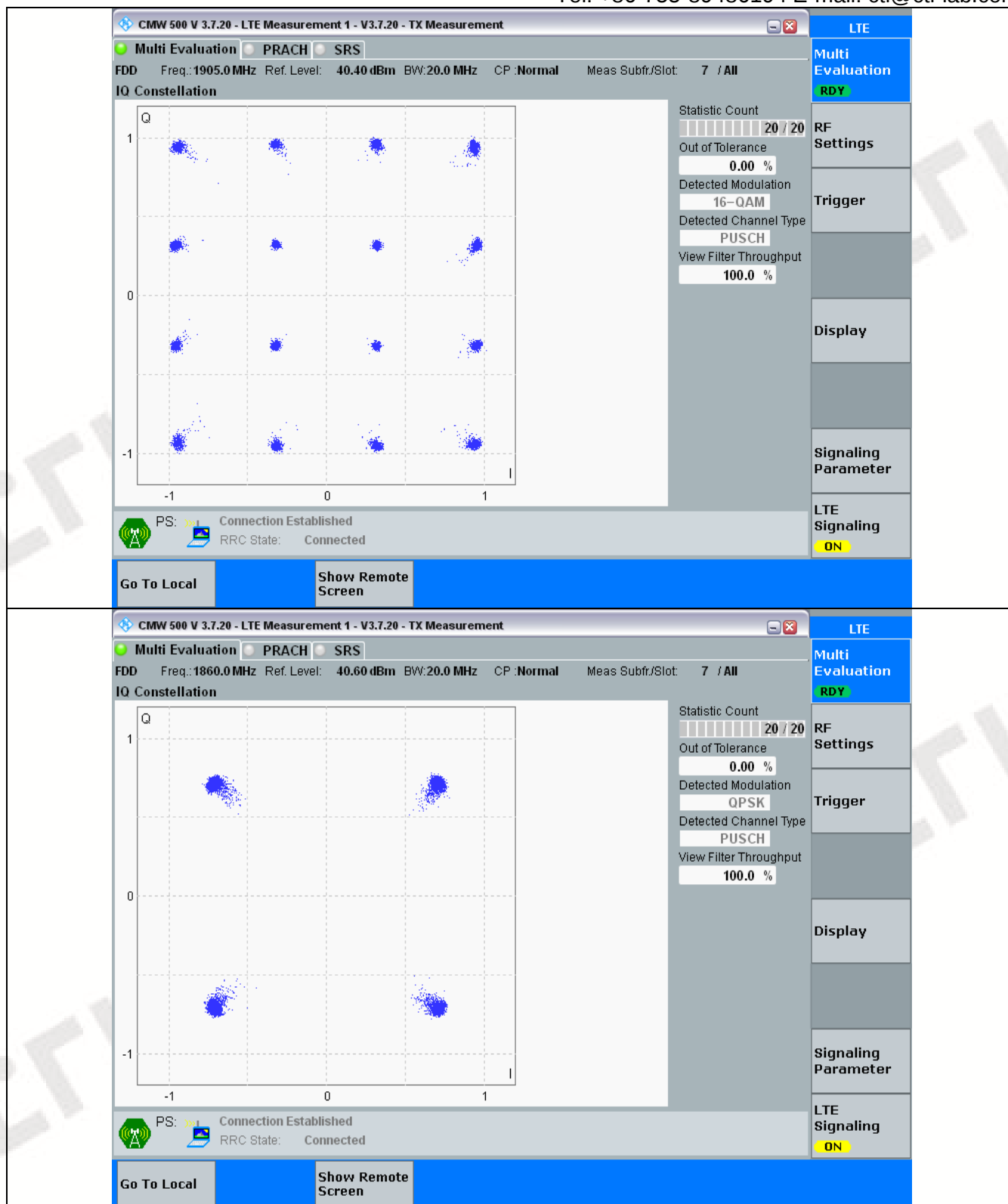


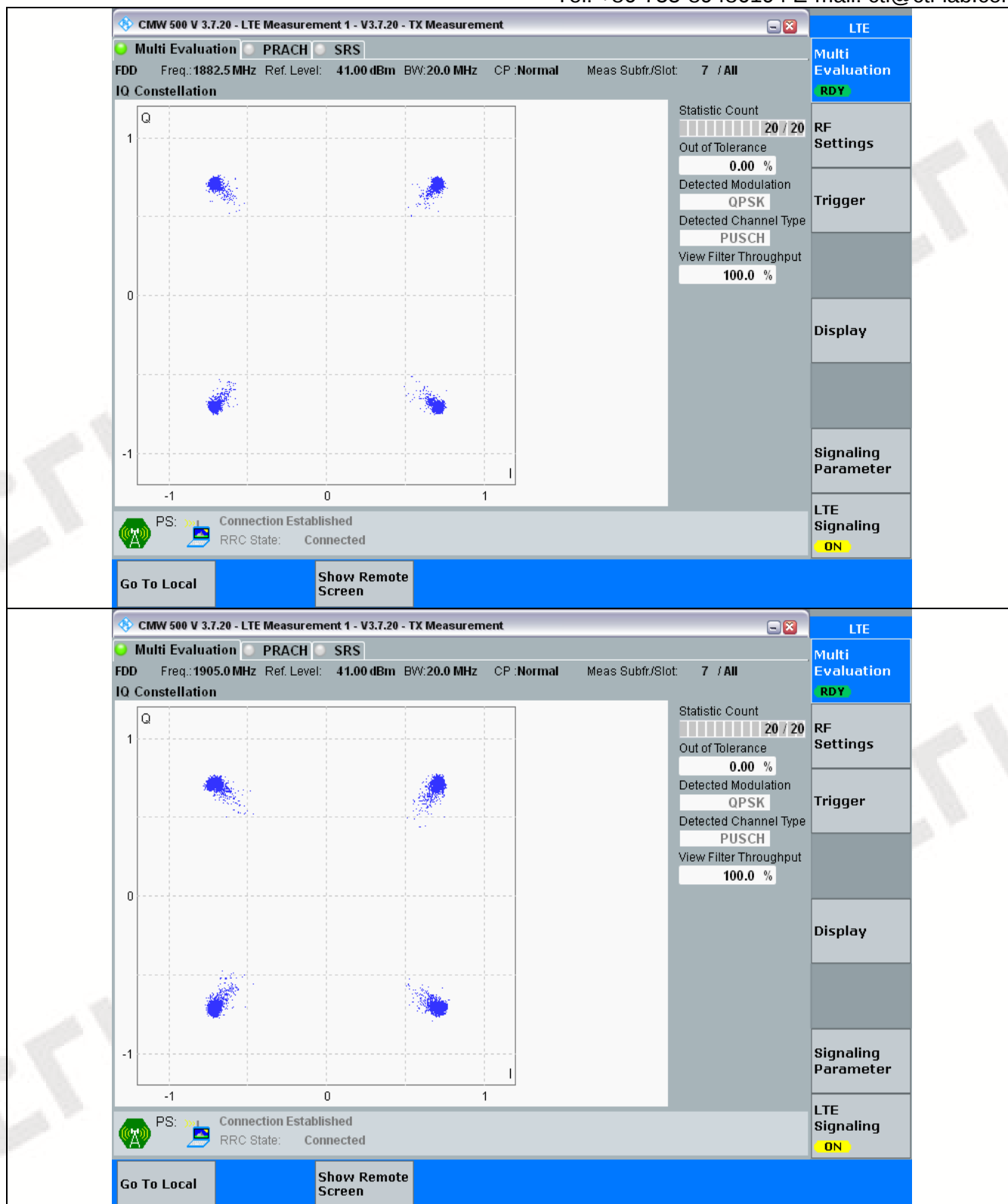




3.1 Test Graph







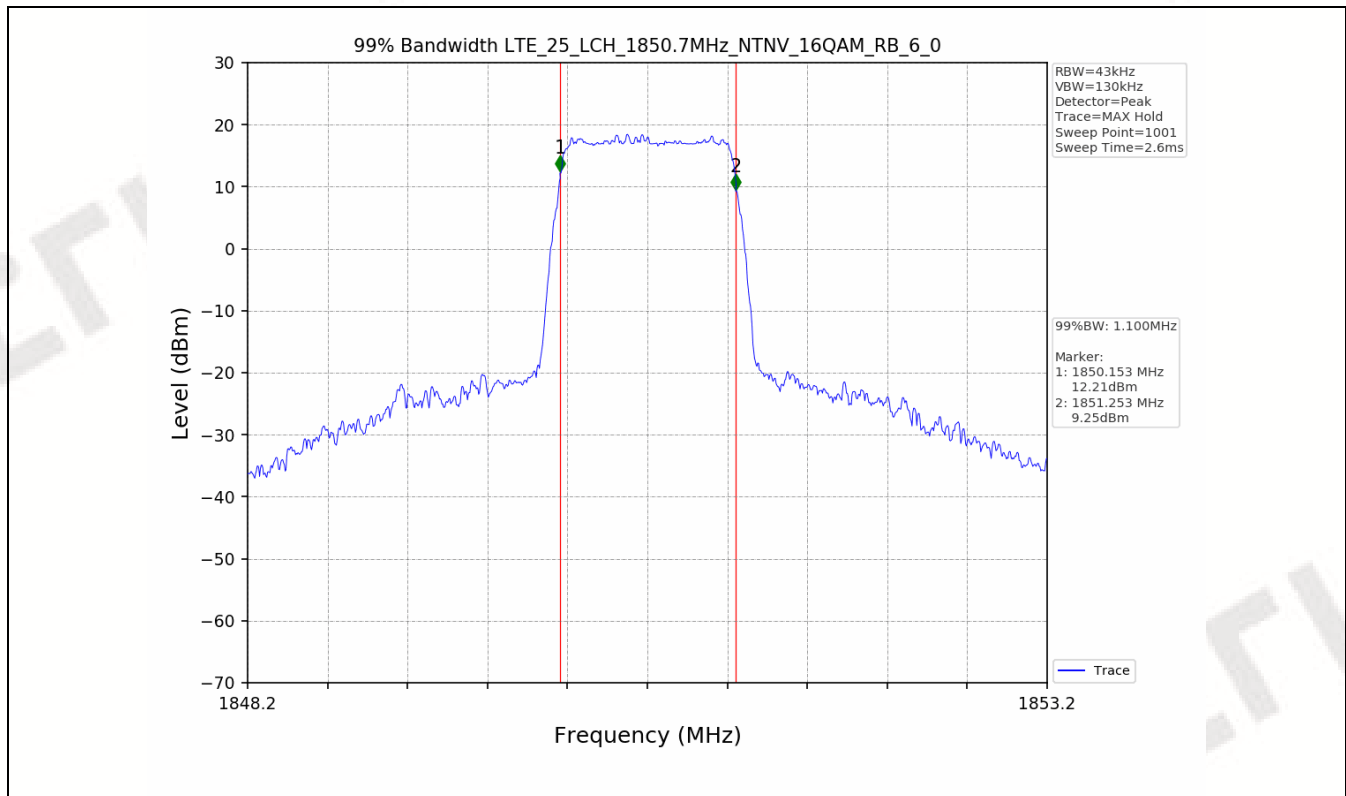


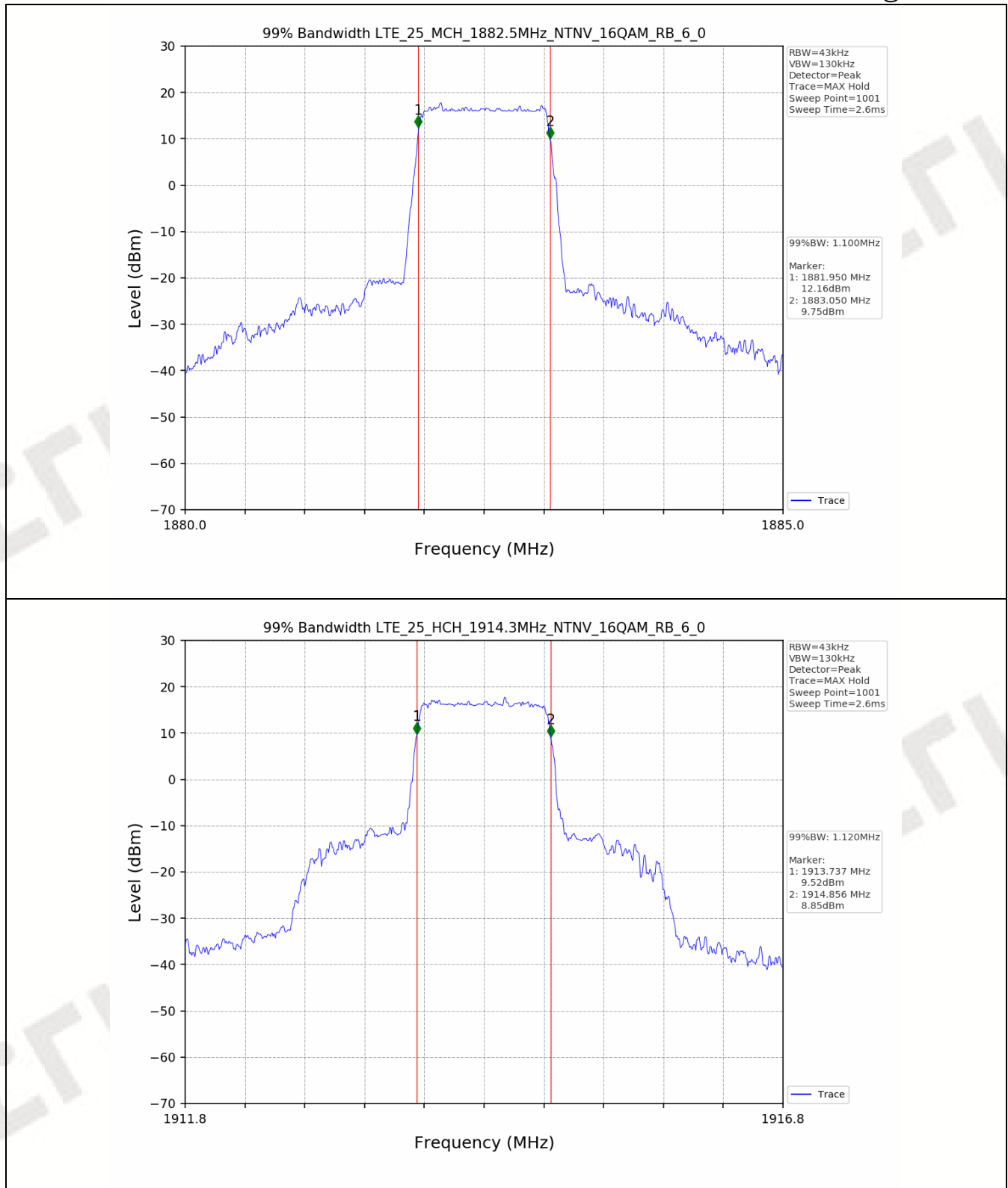
4. 99% & 26dB Bandwidth

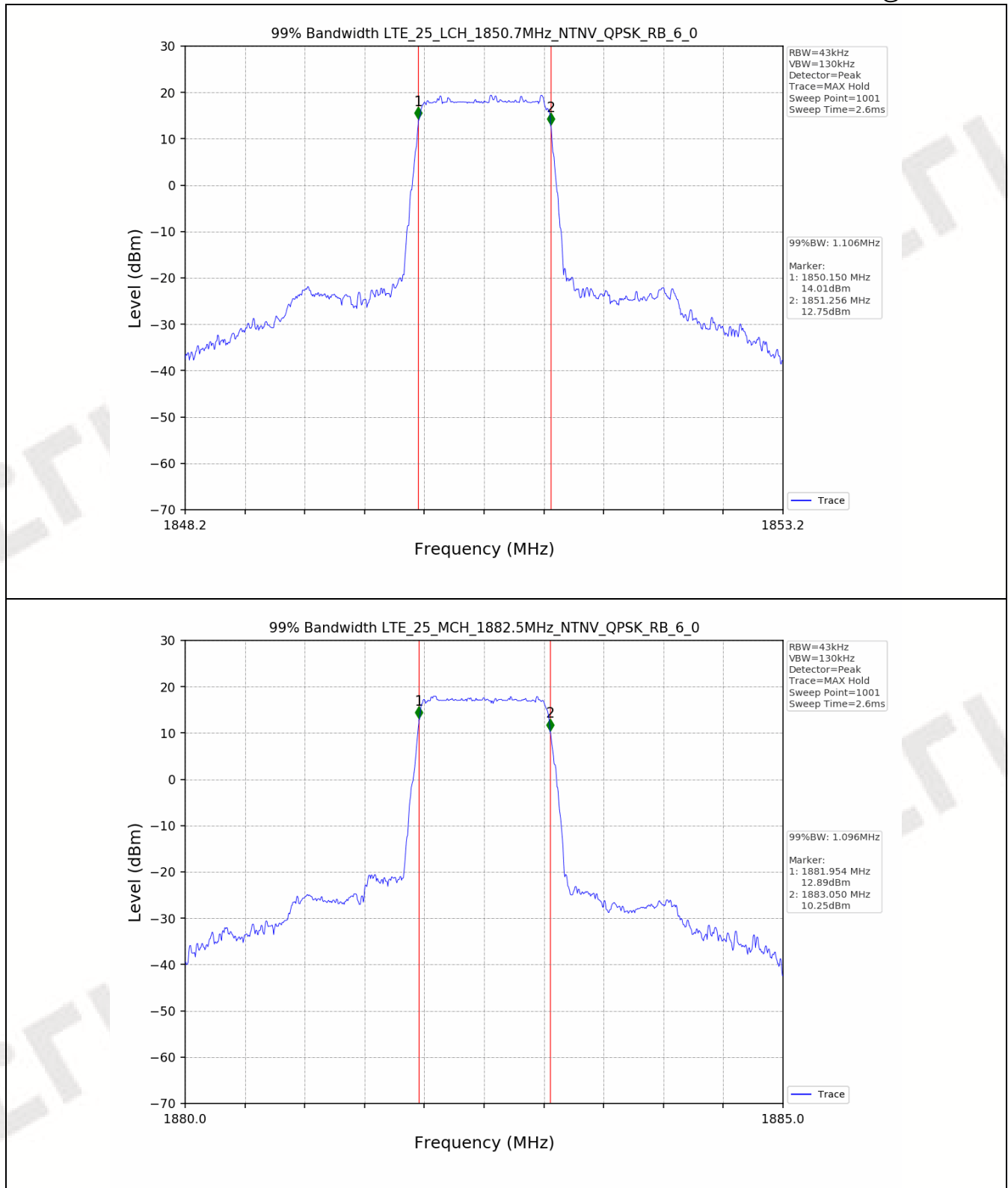
4.1 Test Result

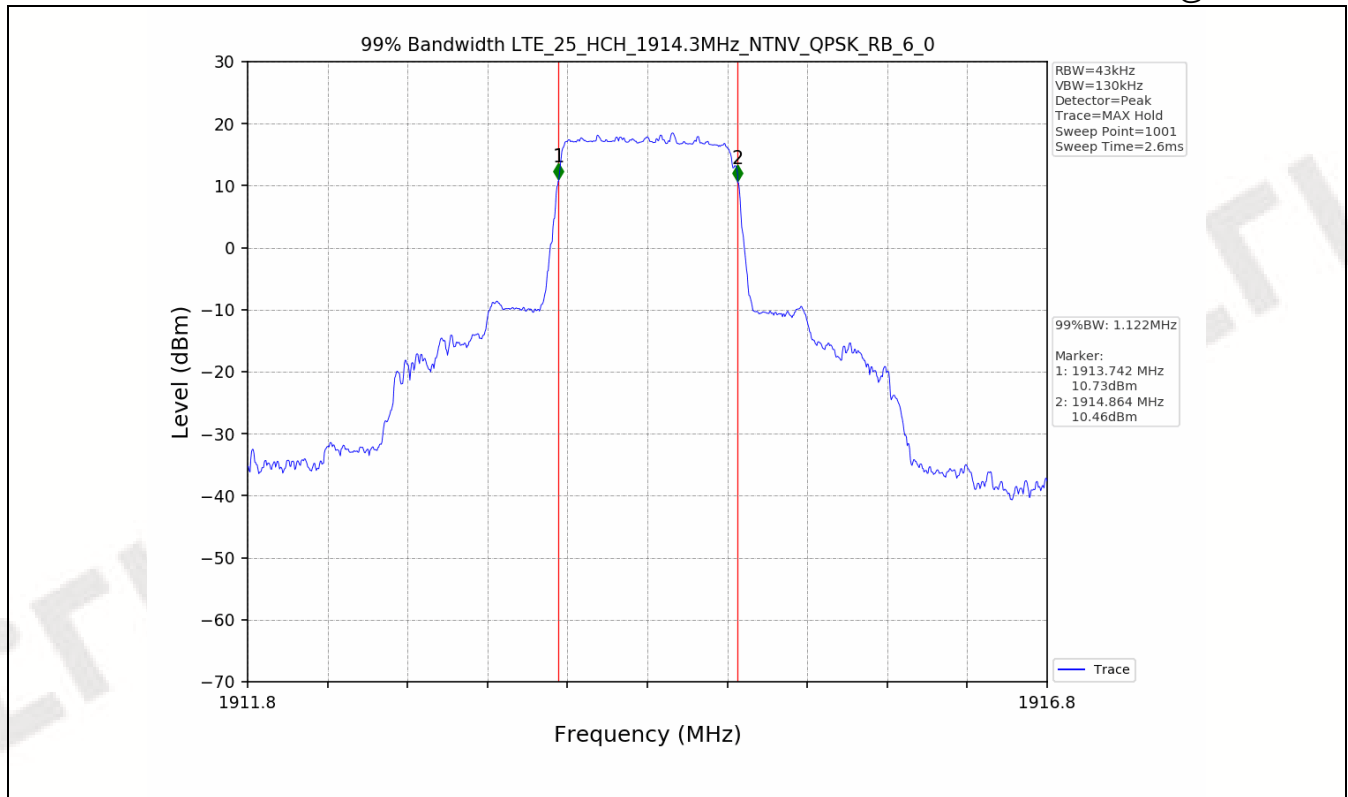
Test Band: 25_1.4MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.106	1.096	1.122	N/A	PASS
16QAM	6	0	1.100	1.100	1.120	N/A	PASS

4.2 Test Graph





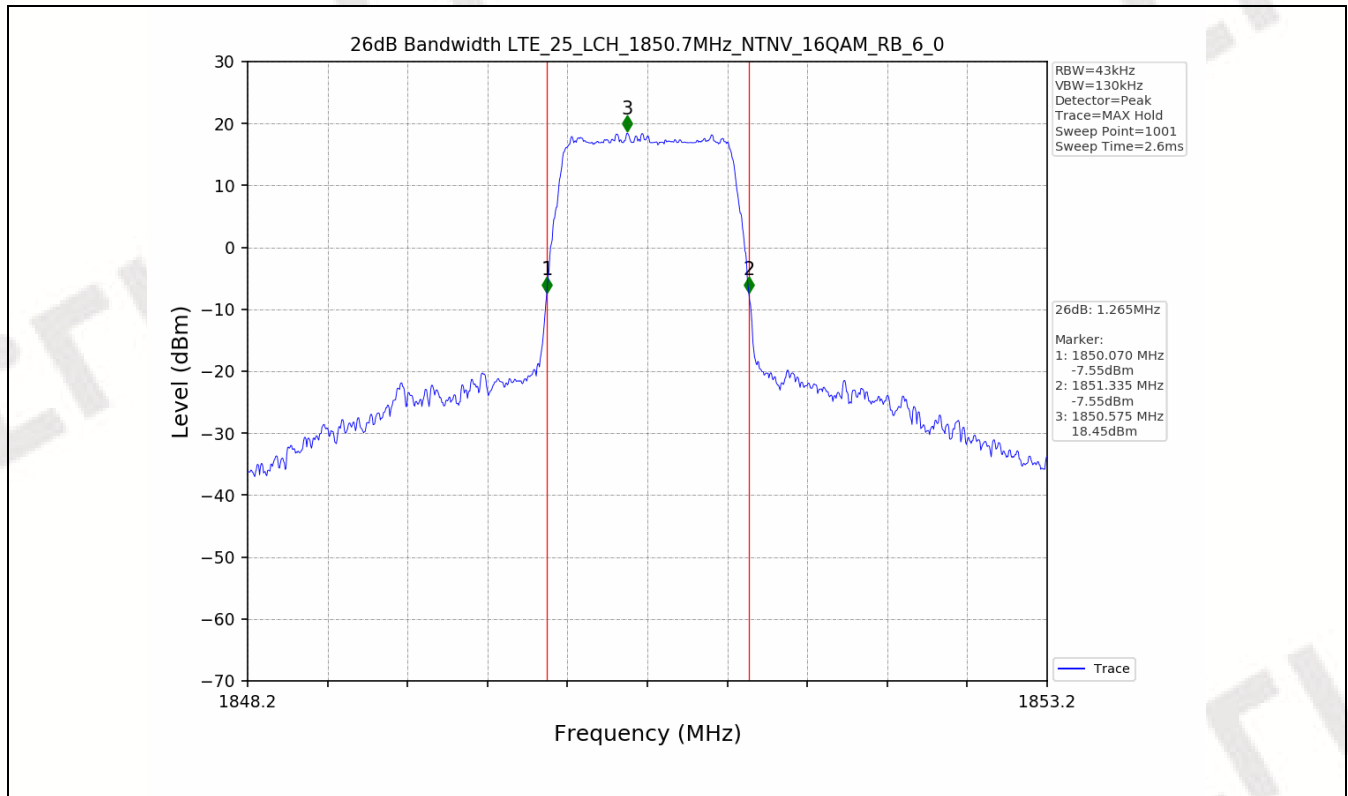


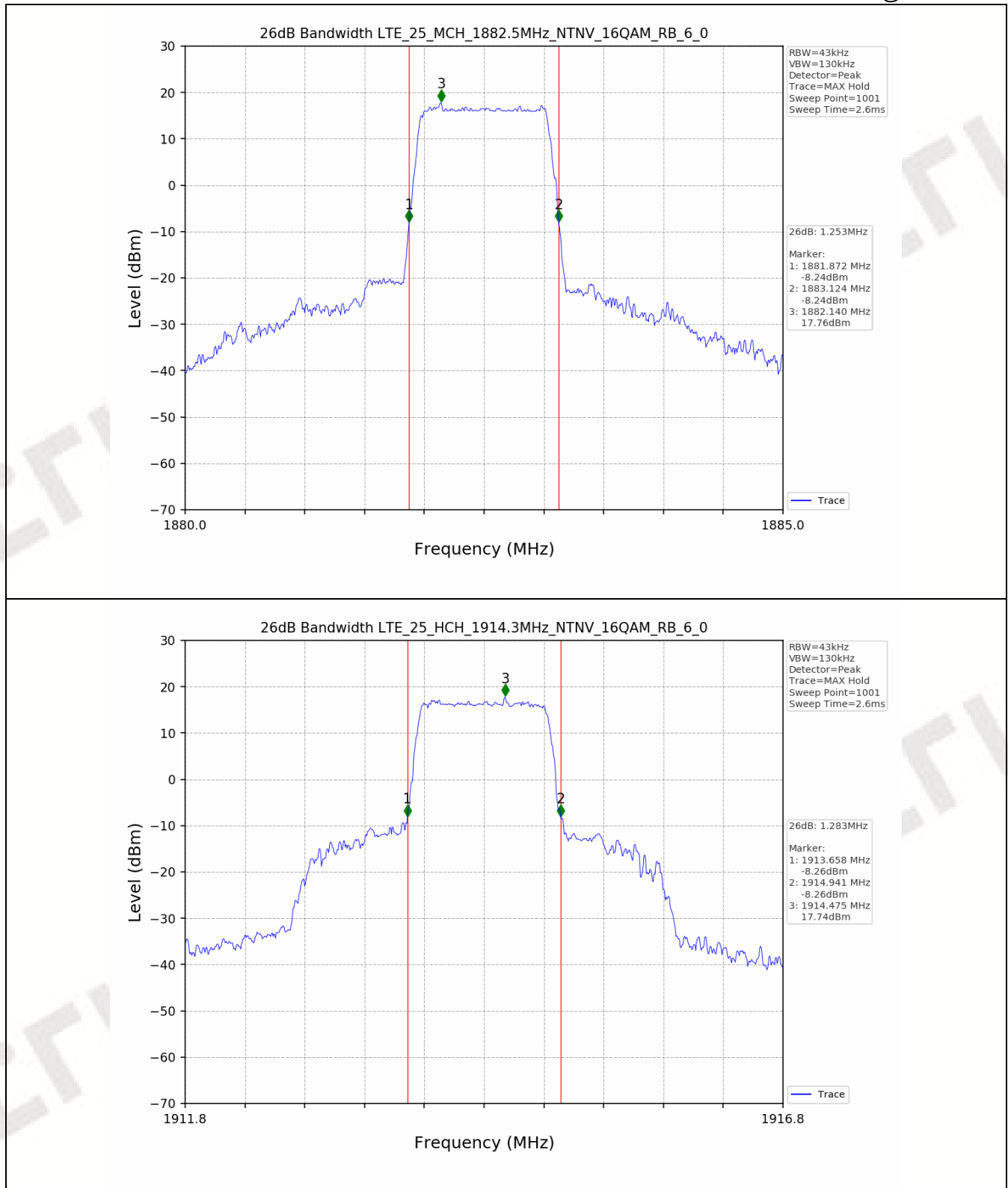


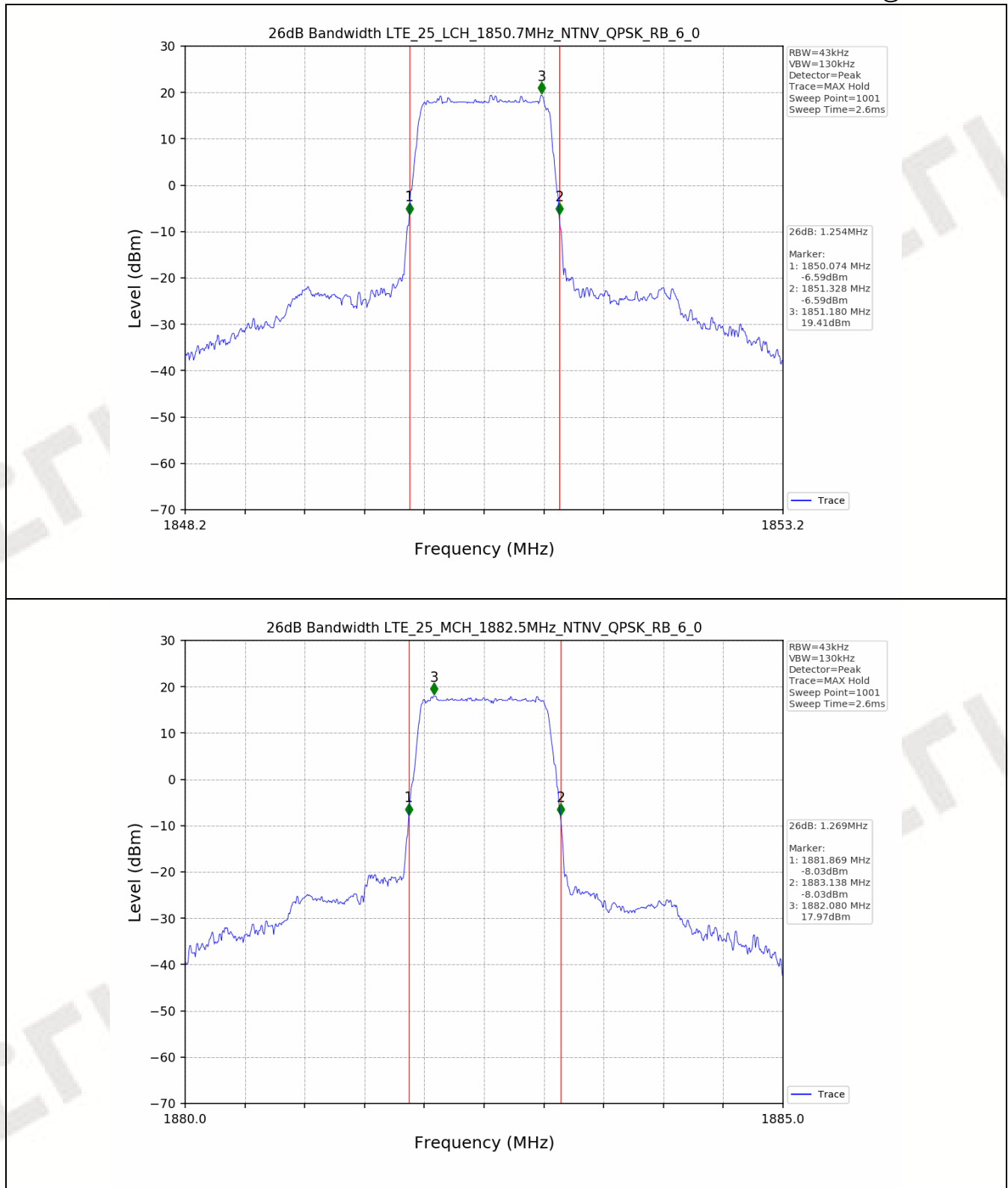


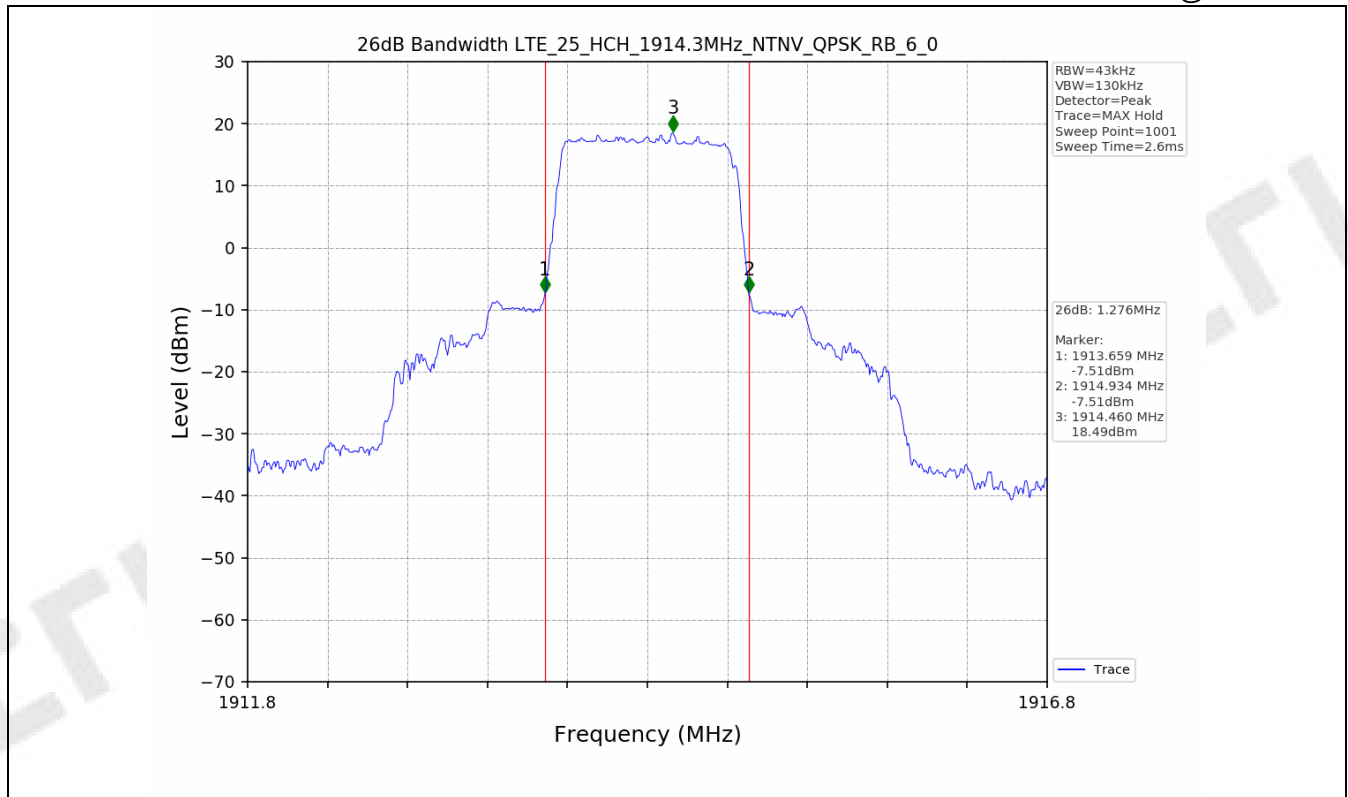
Test Band: 25 1.4MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.254	1.269	1.276	N/A	PASS
16QAM	6	0	1.265	1.253	1.283	N/A	PASS

4.2 Test Graph





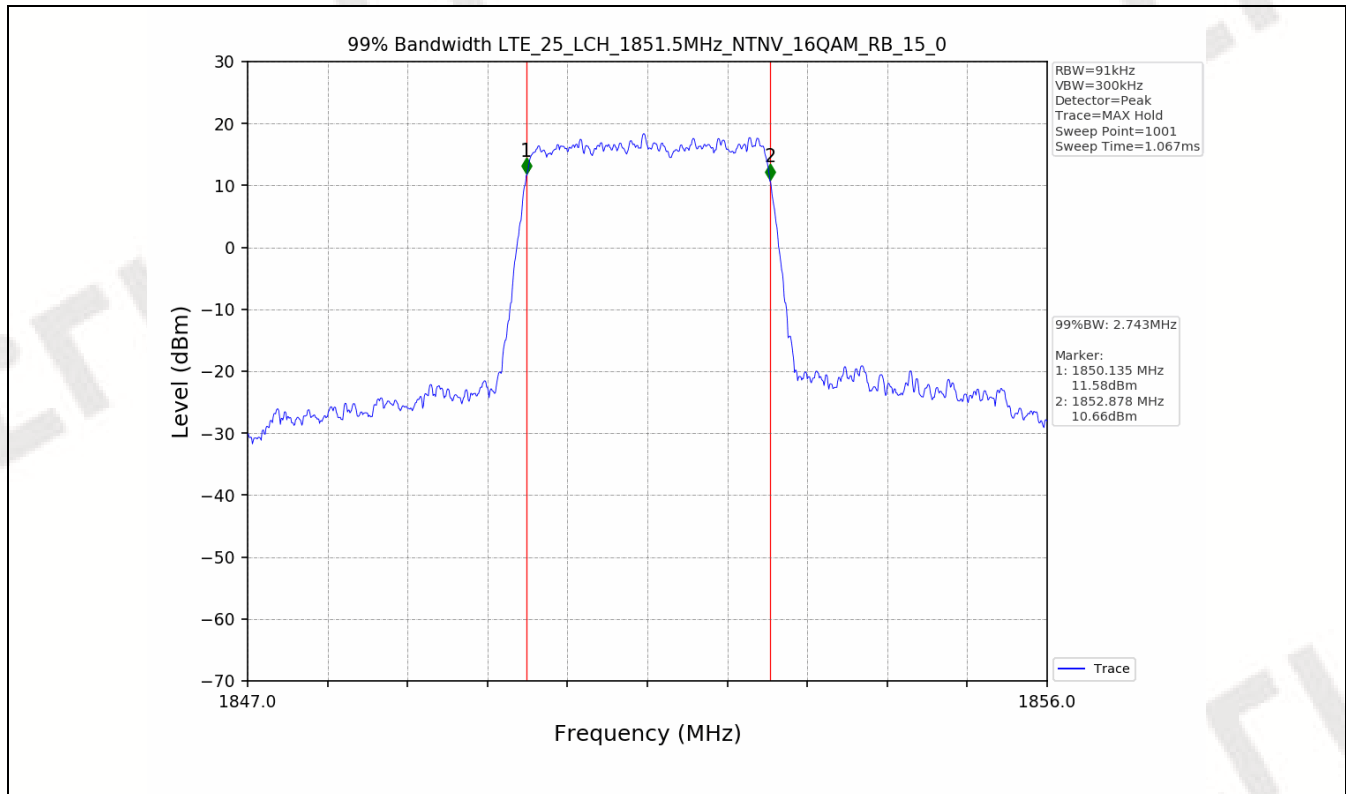


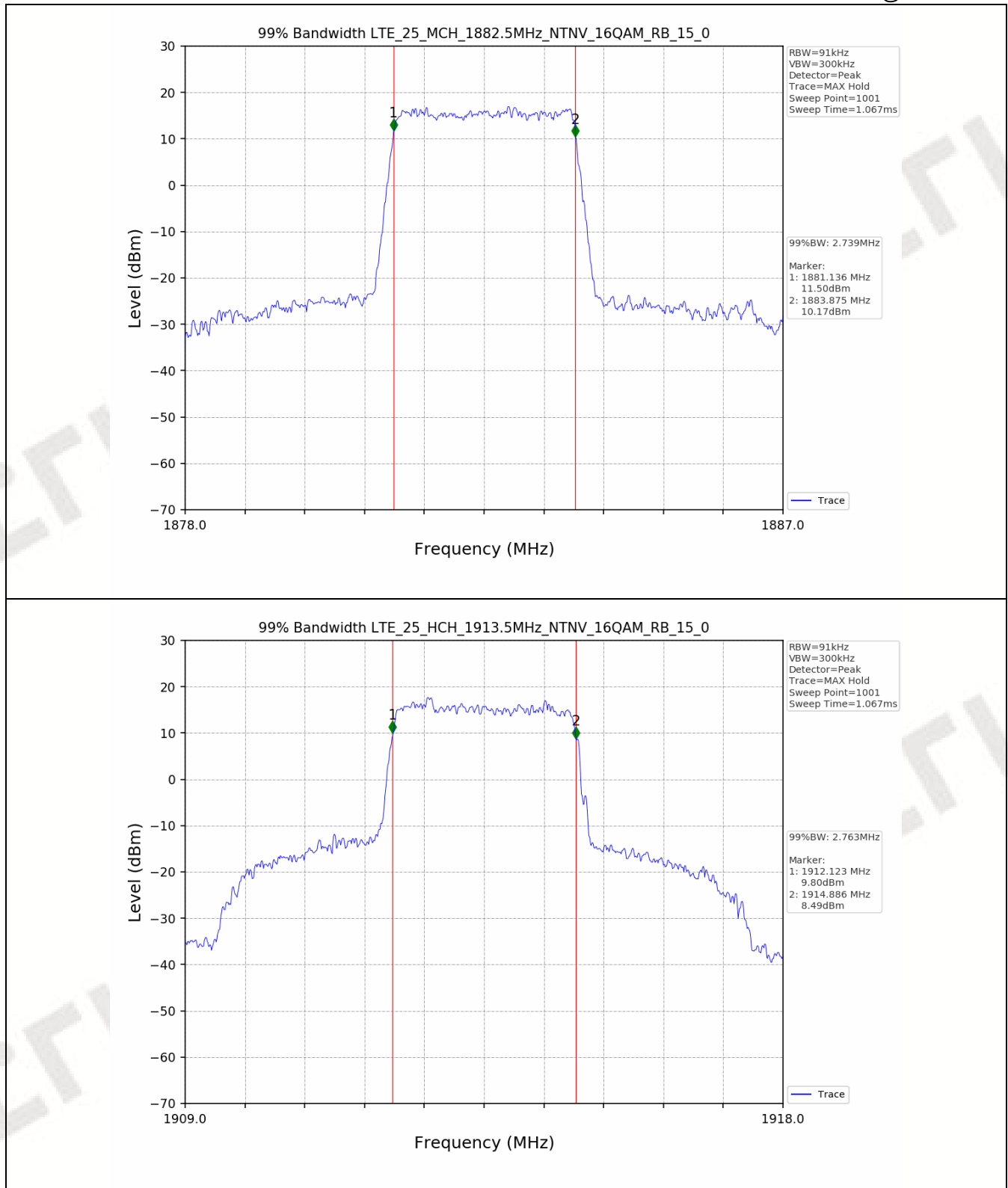


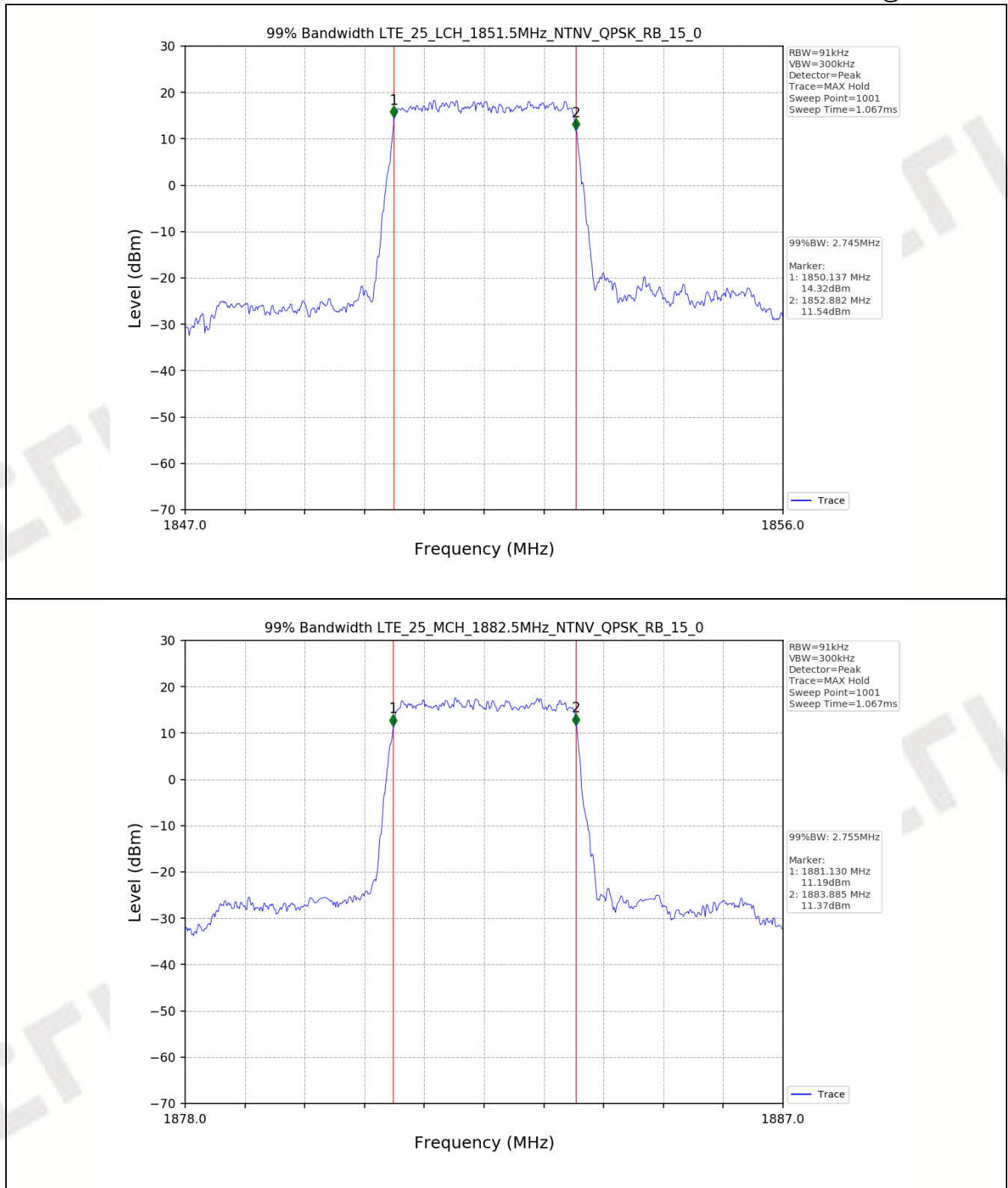


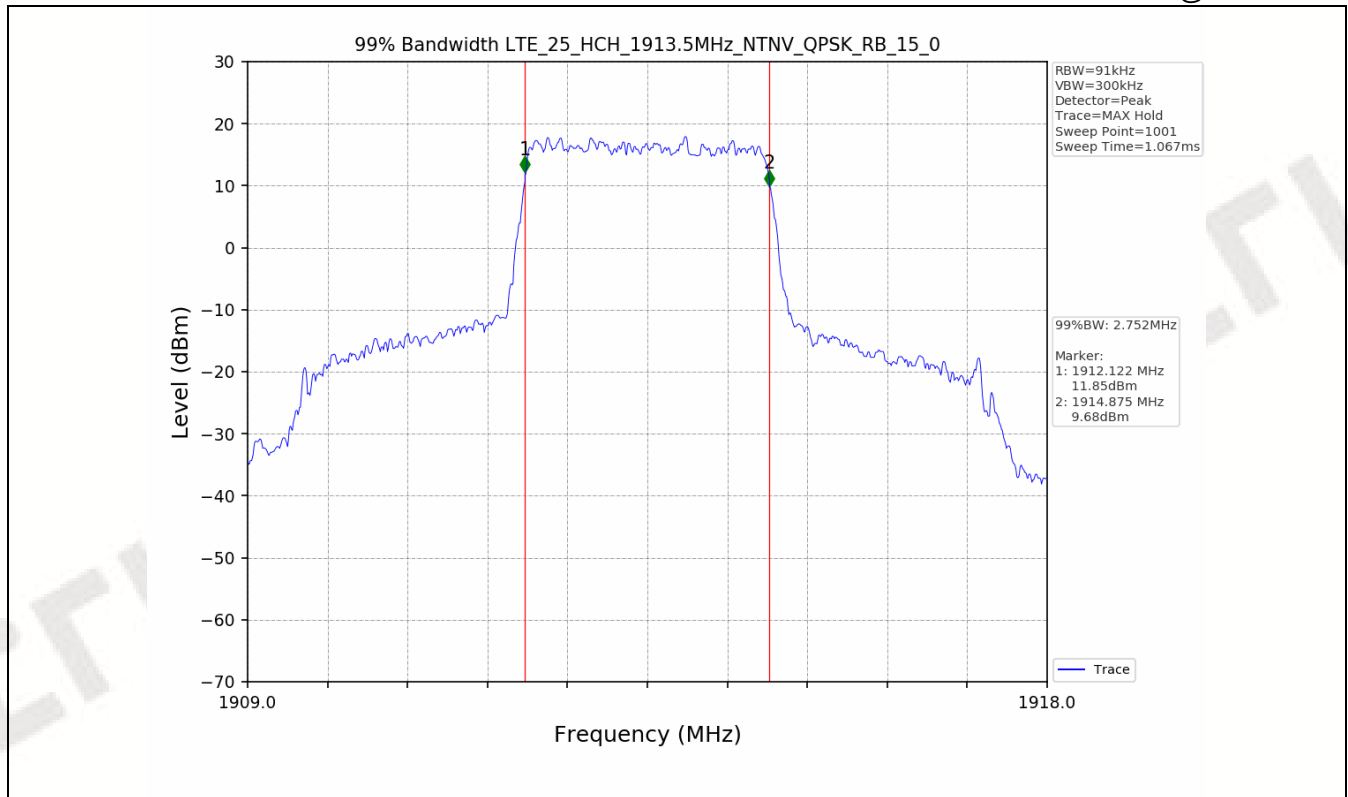
Test Band: 25_3MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	2.745	2.755	2.752	N/A	PASS
16QAM	15	0	2.743	2.739	2.763	N/A	PASS

4.2 Test Graph





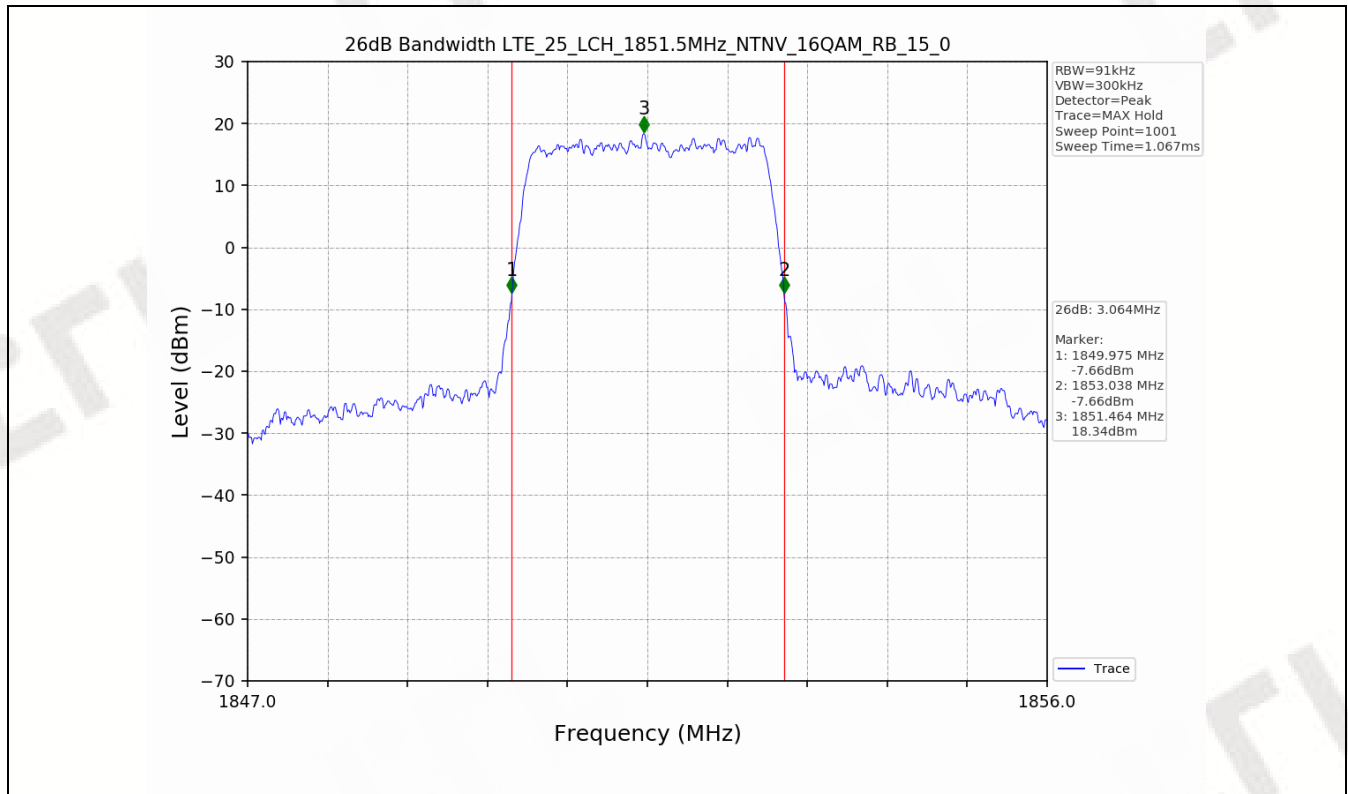


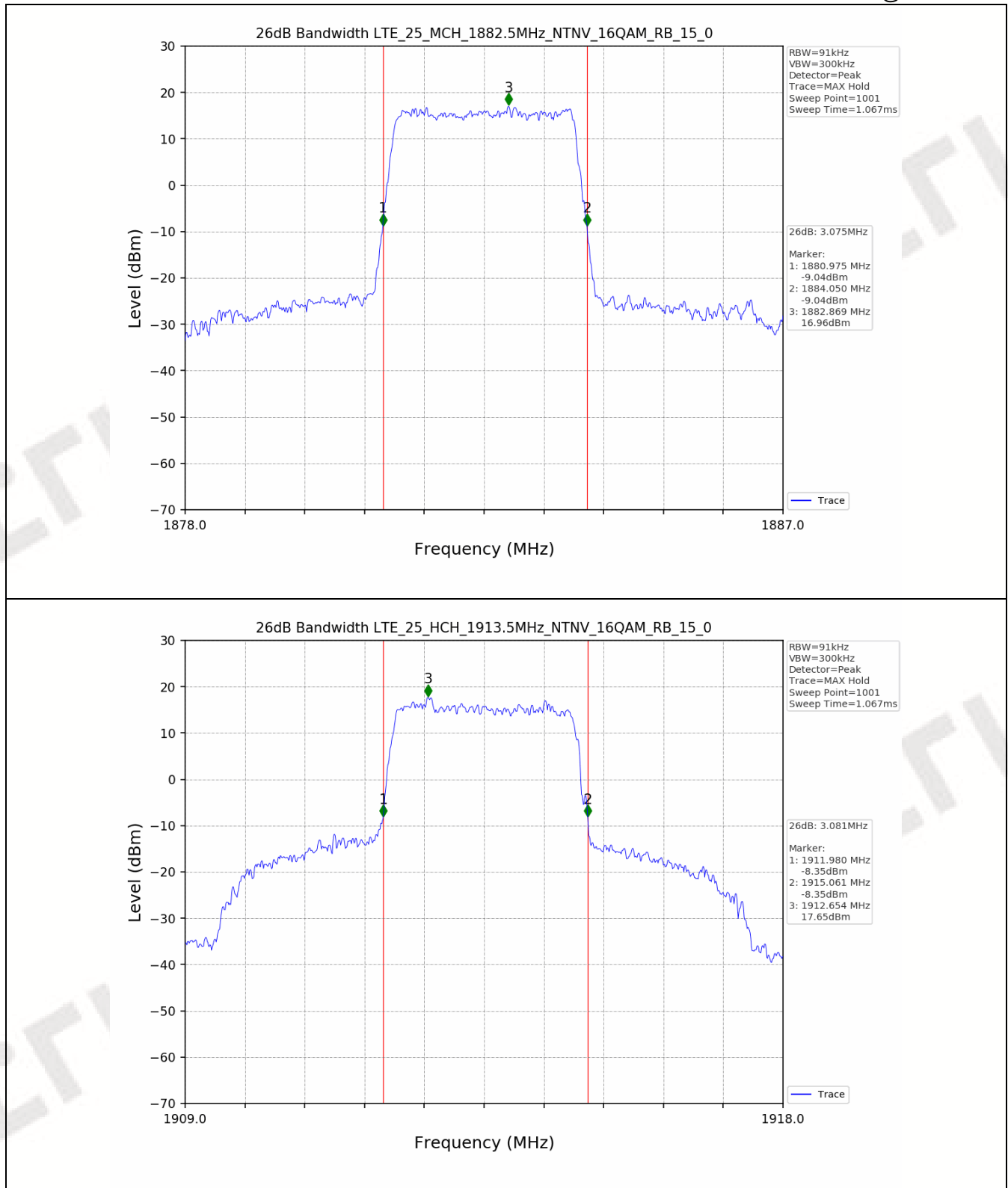




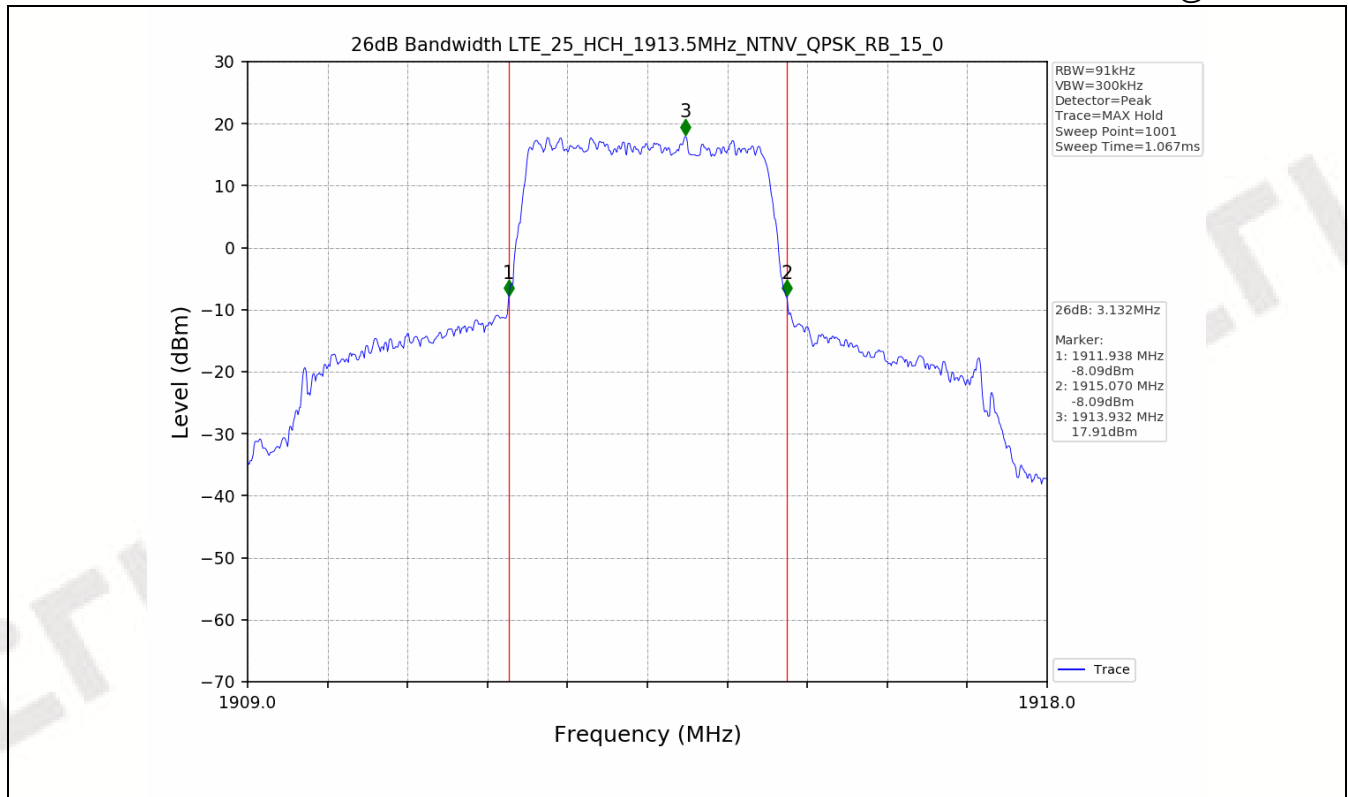
Test Band: 25_3MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	3.080	3.066	3.132	N/A	PASS
16QAM	15	0	3.064	3.075	3.081	N/A	PASS

4.2 Test Graph





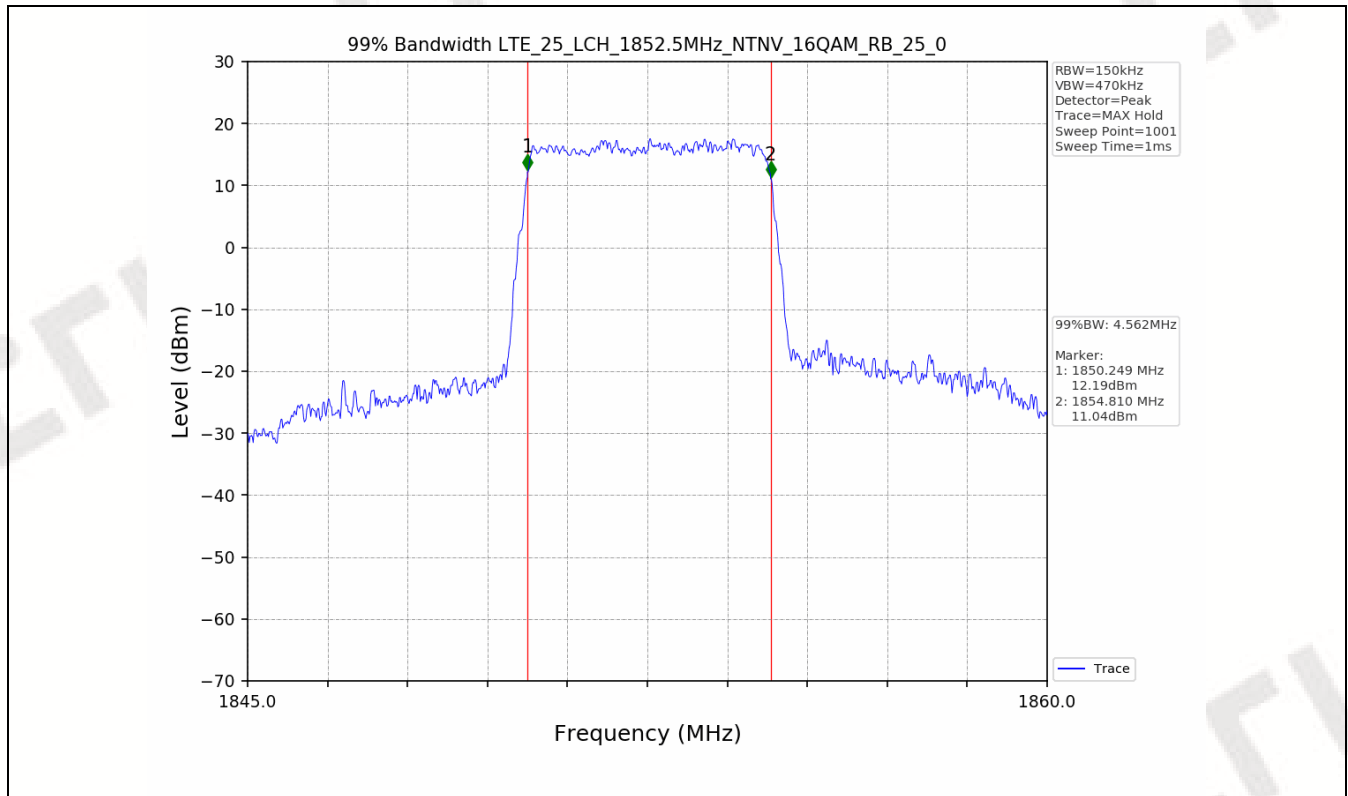


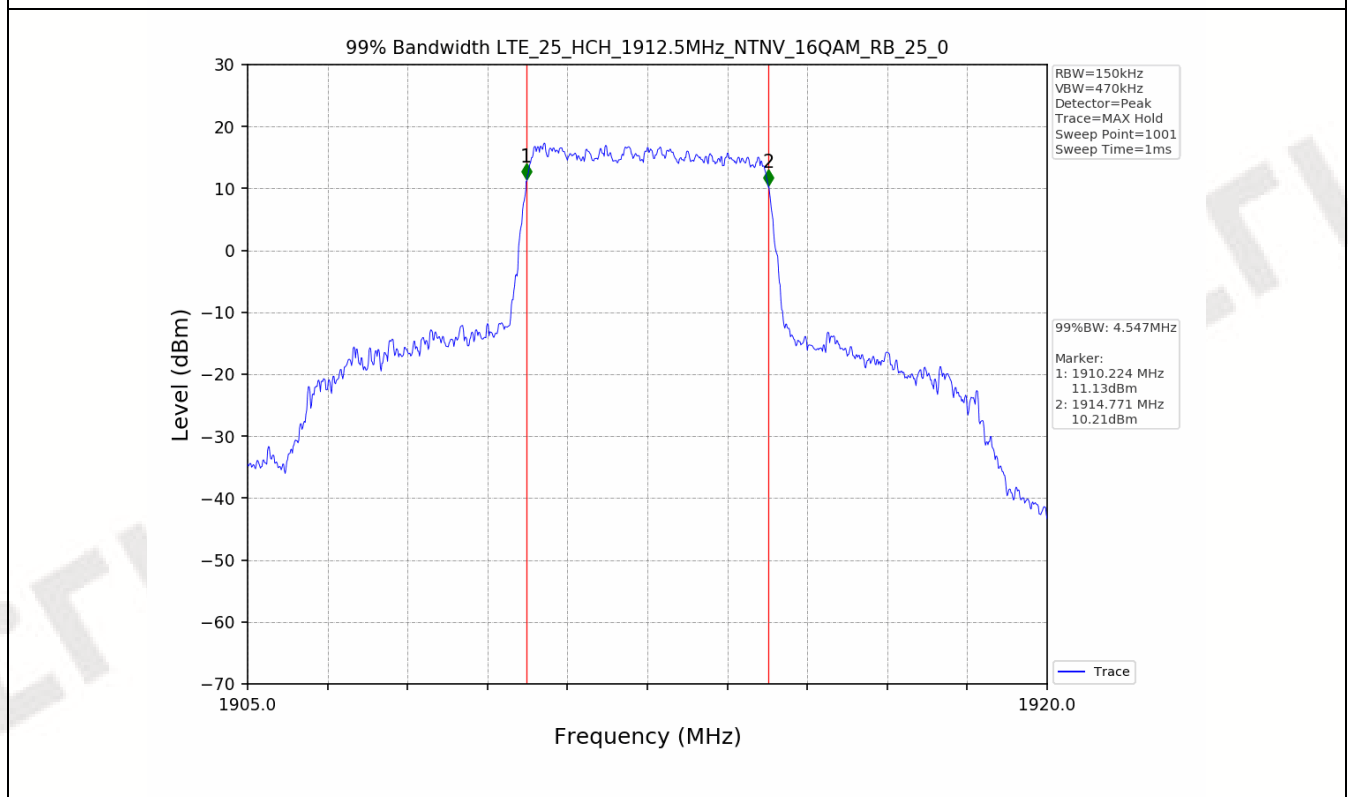
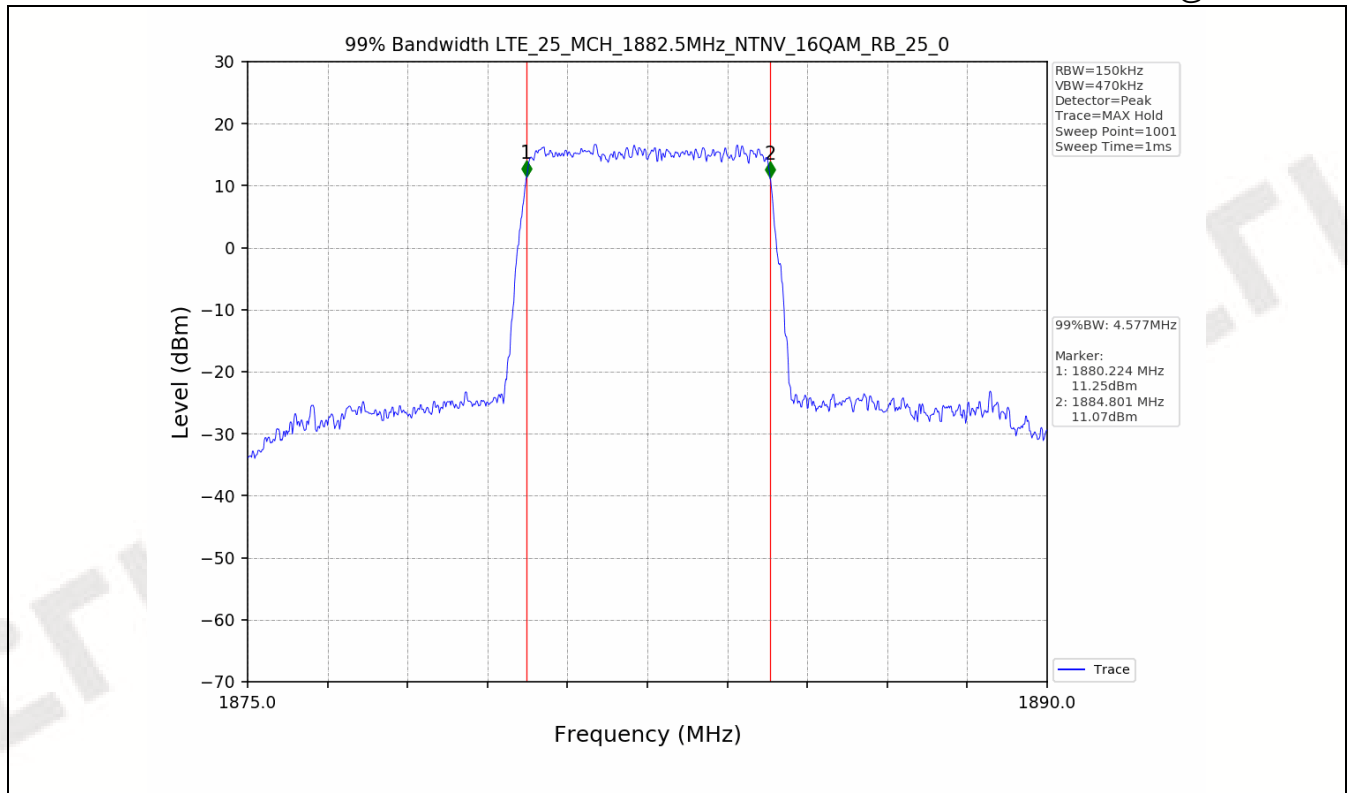


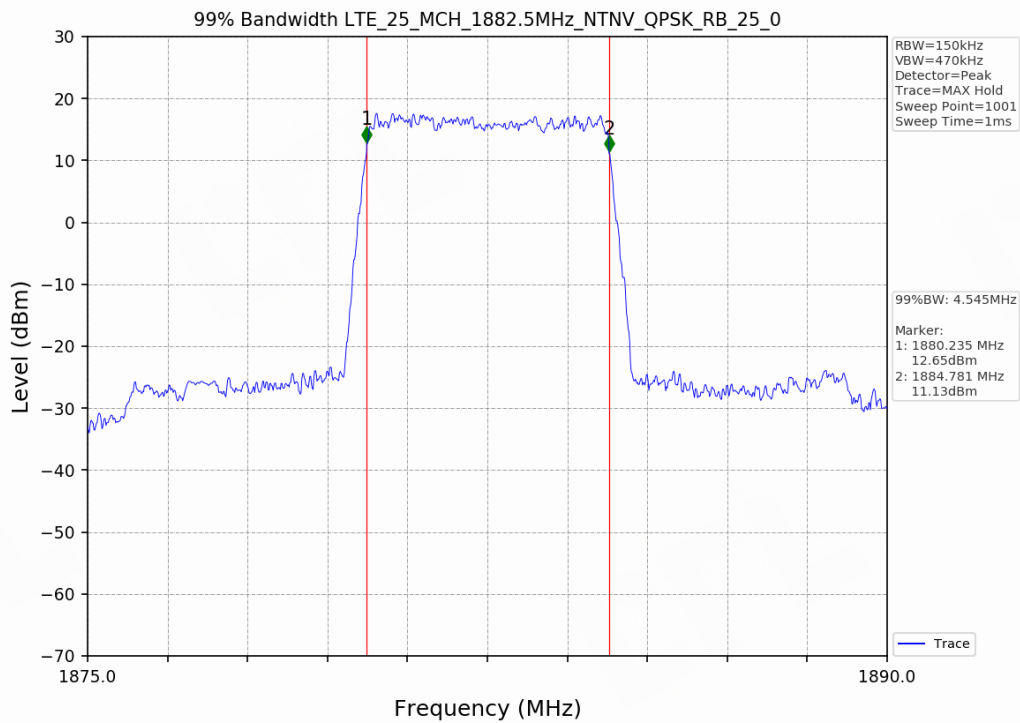
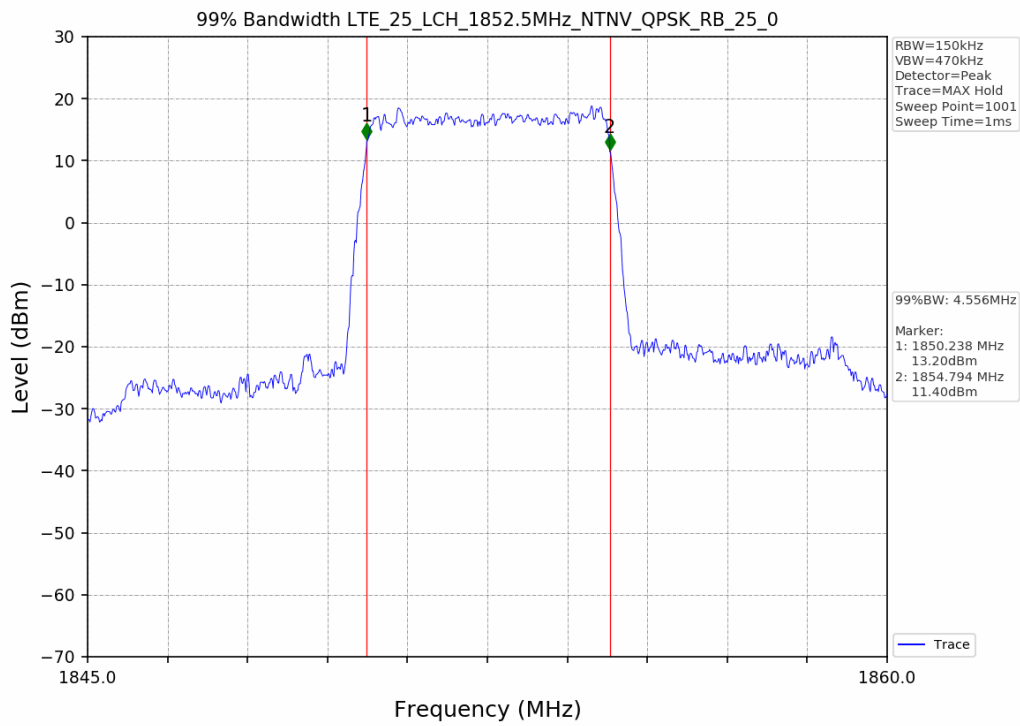


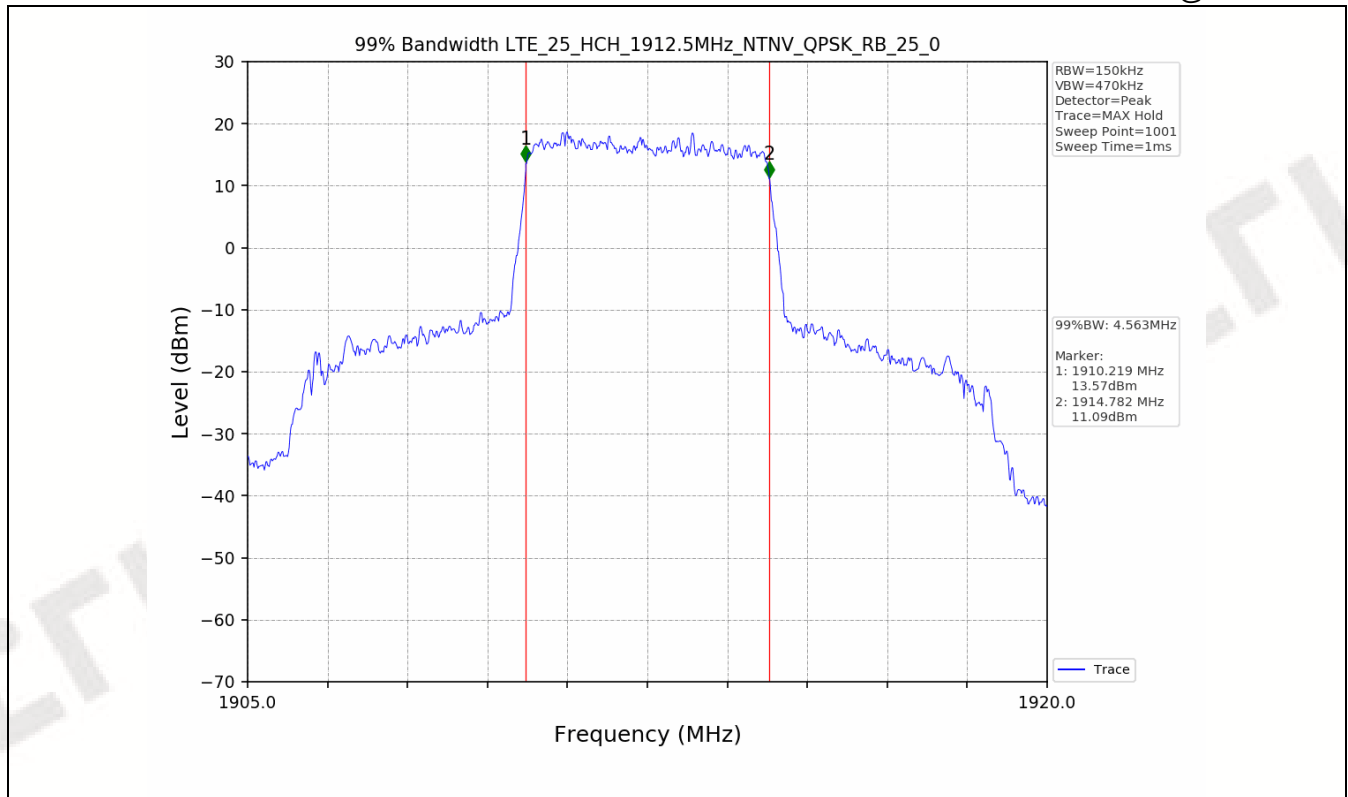
Test Band: 25_5MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	4.556	4.545	4.563	N/A	PASS
16QAM	25	0	4.562	4.577	4.547	N/A	PASS

4.2 Test Graph





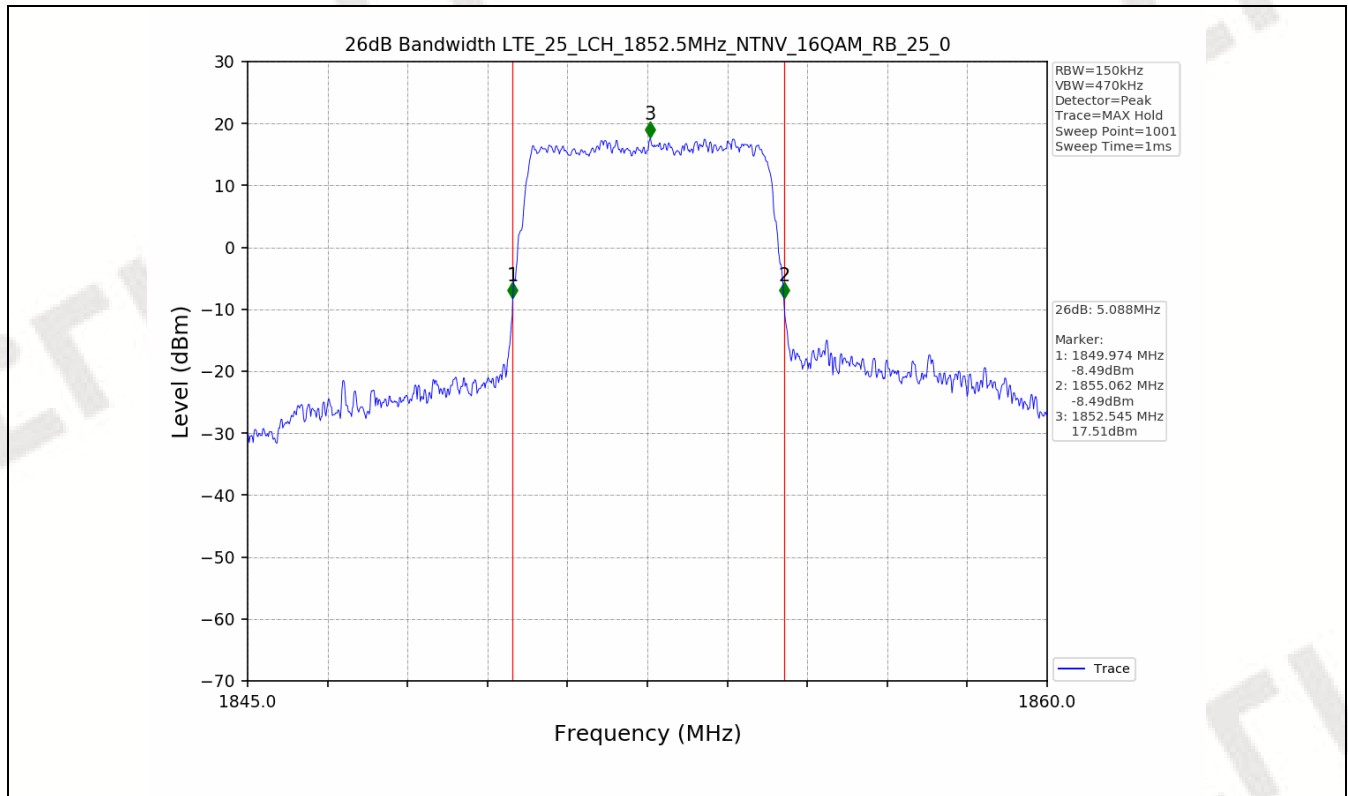


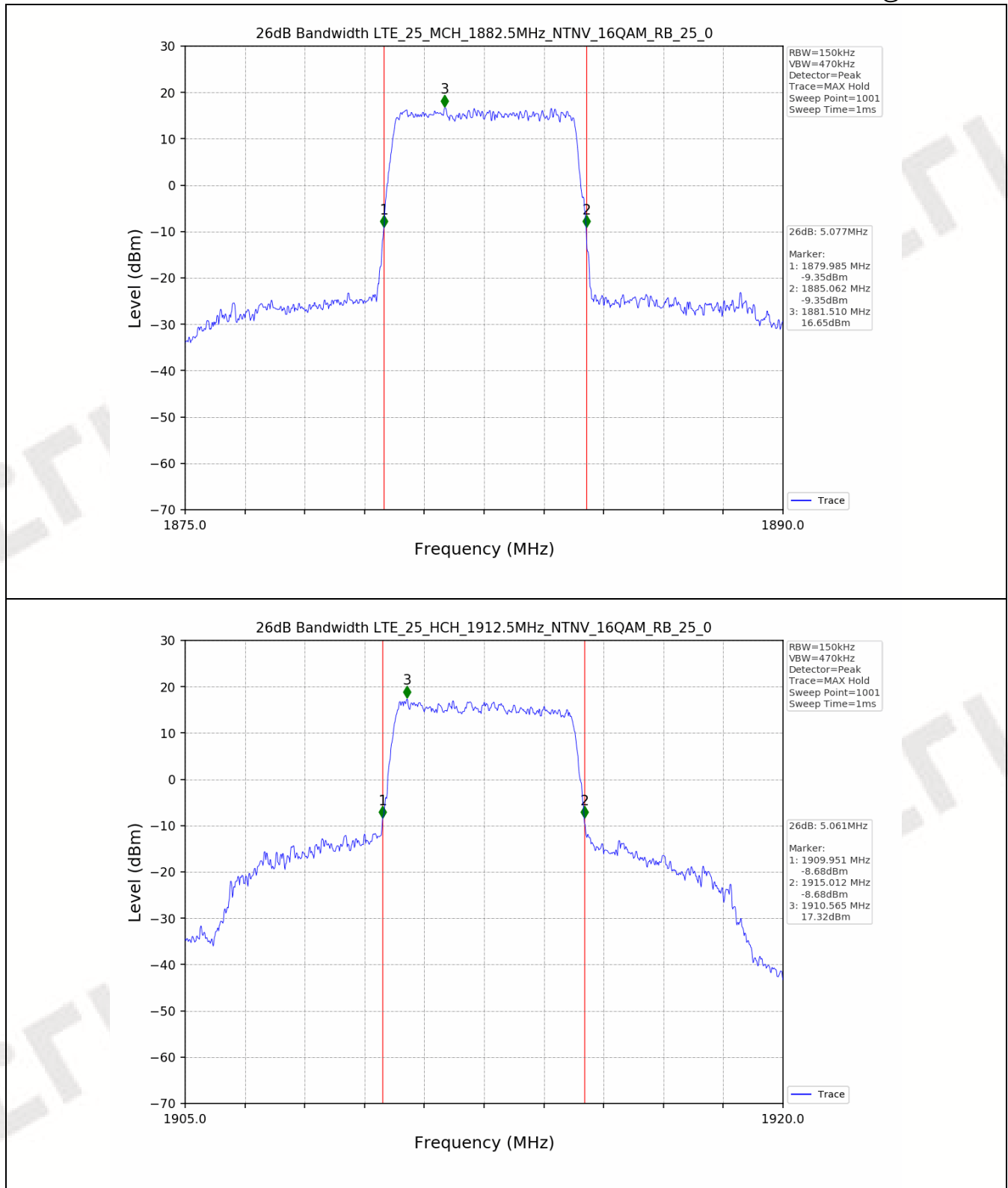




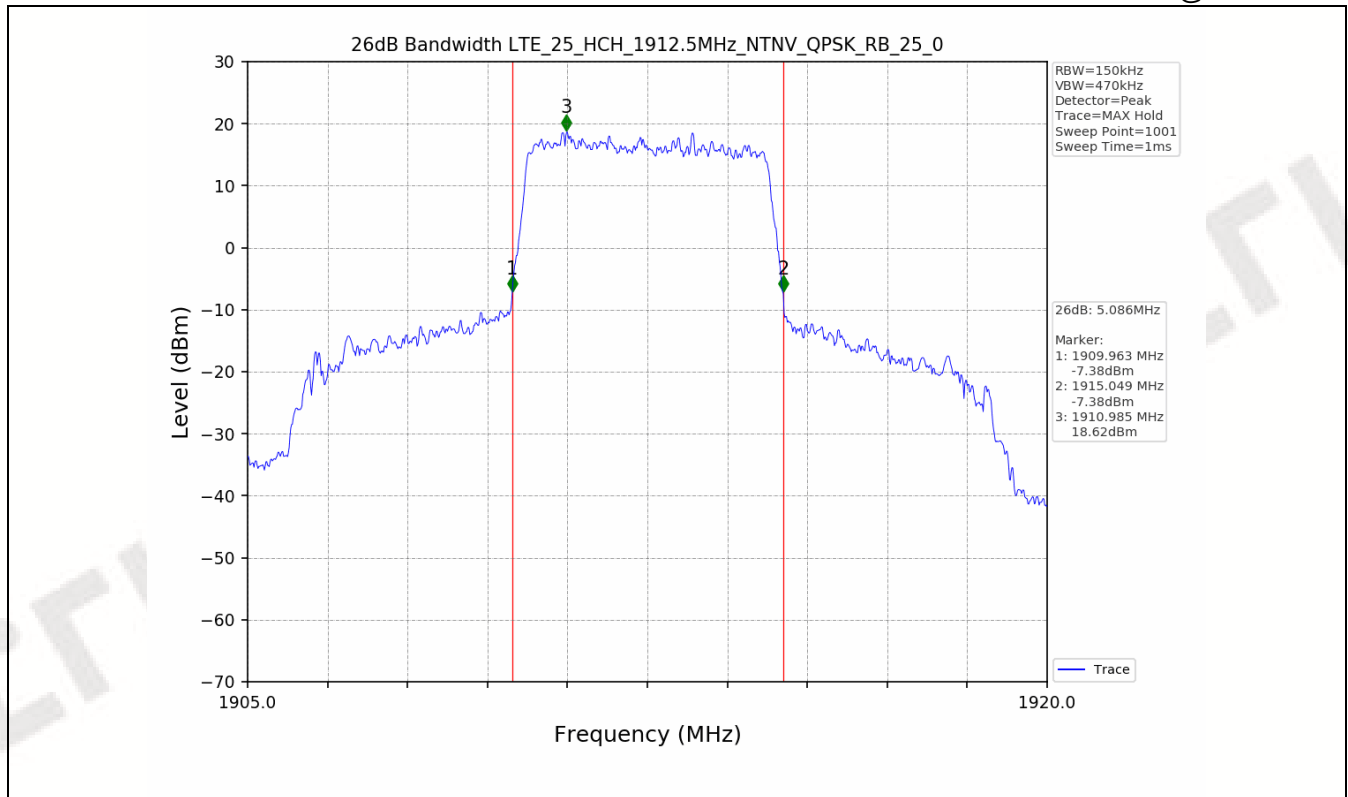
Test Band: 25_5MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	25	0	5.049	5.060	5.086	N/A	PASS
16QAM	25	0	5.088	5.077	5.061	N/A	PASS

4.2 Test Graph





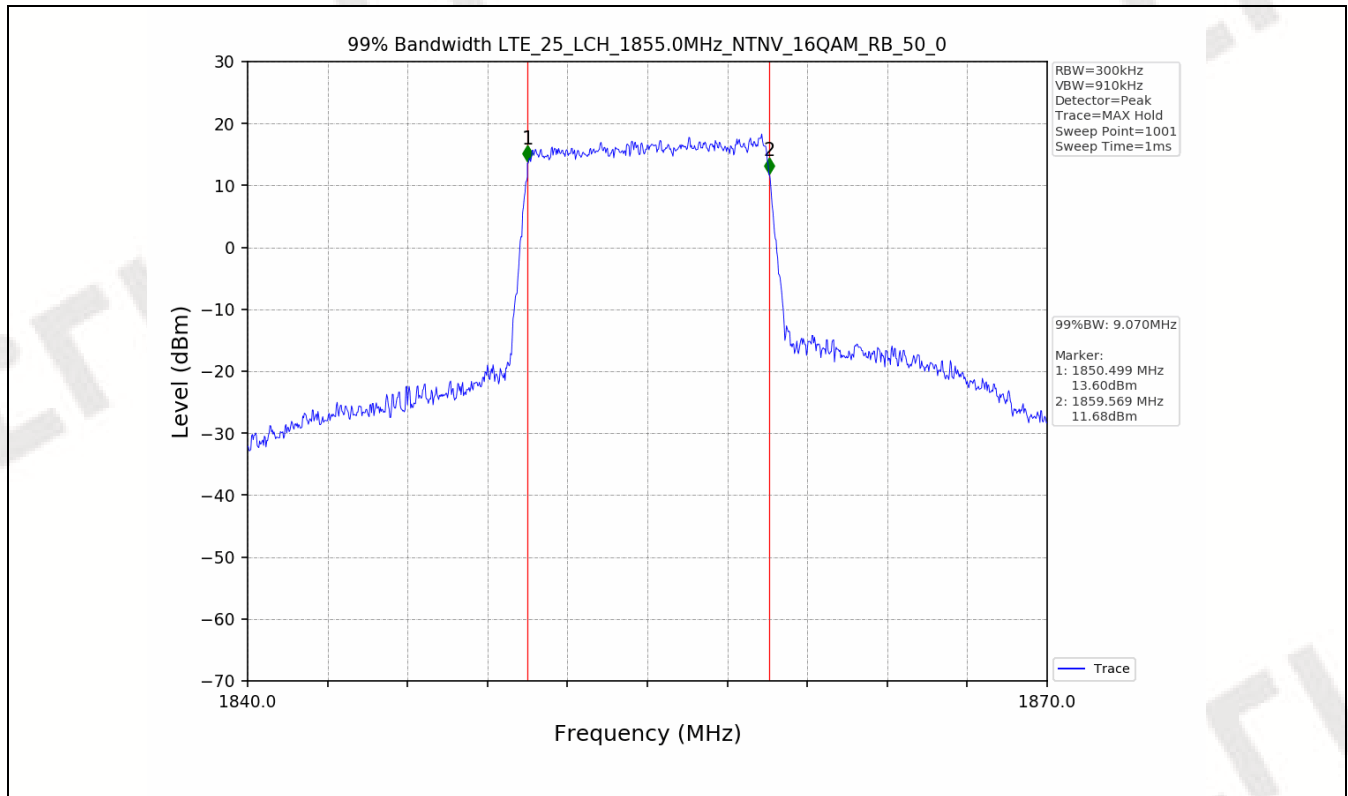


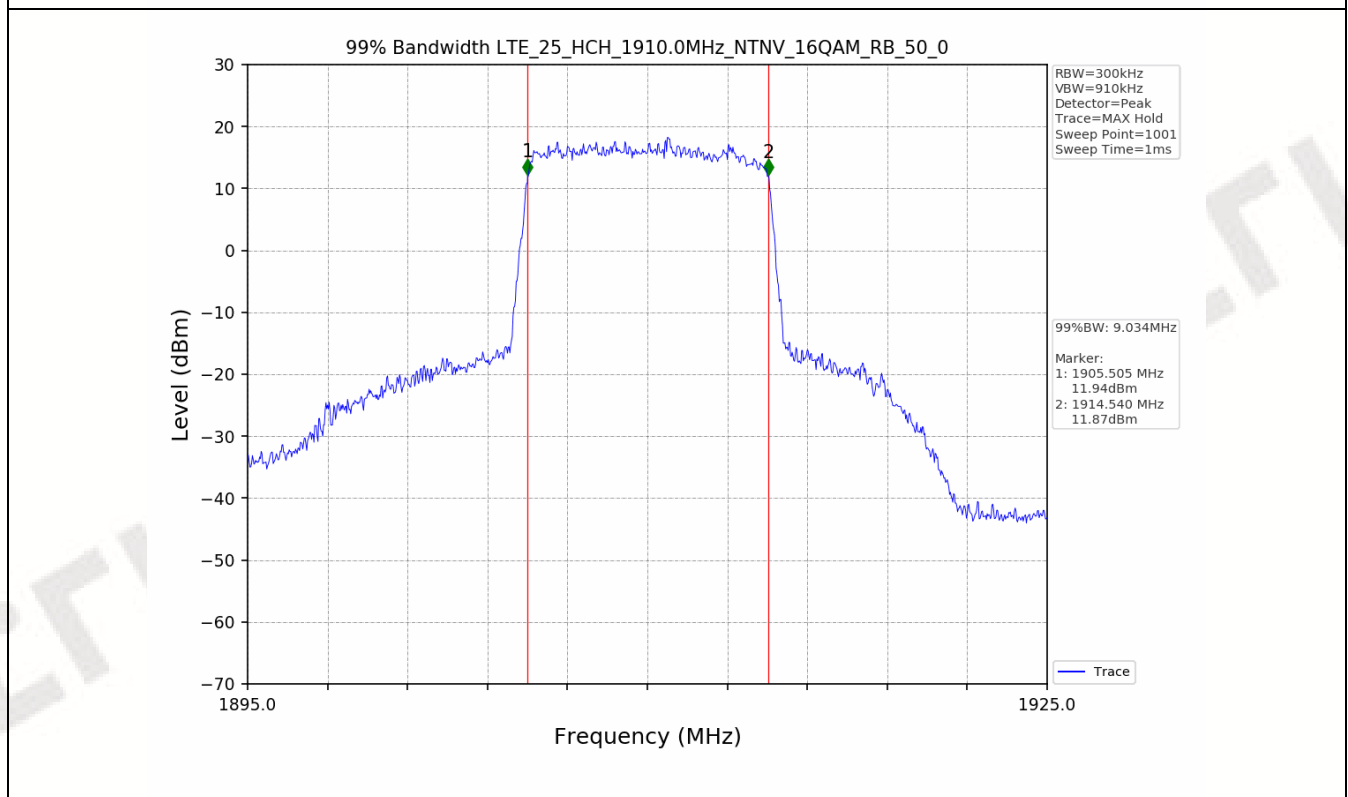
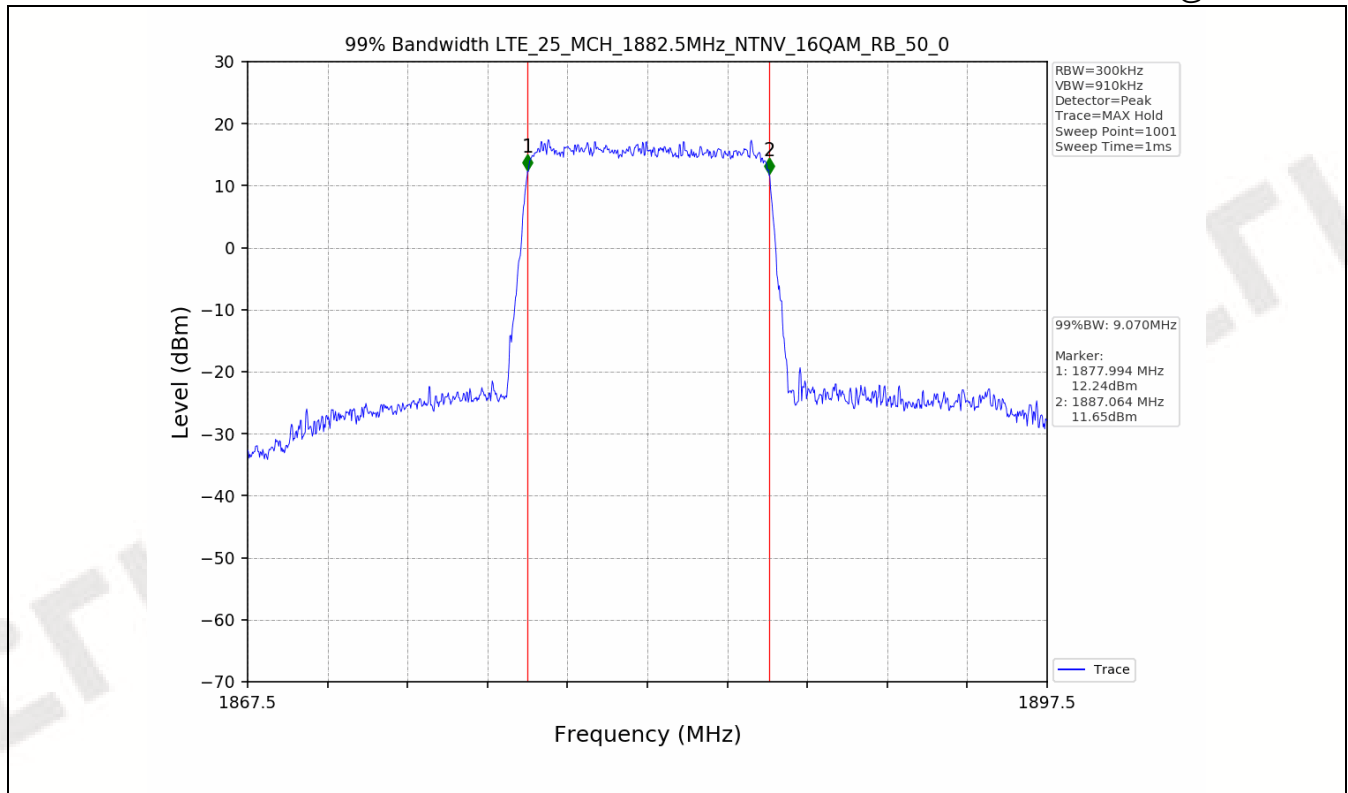


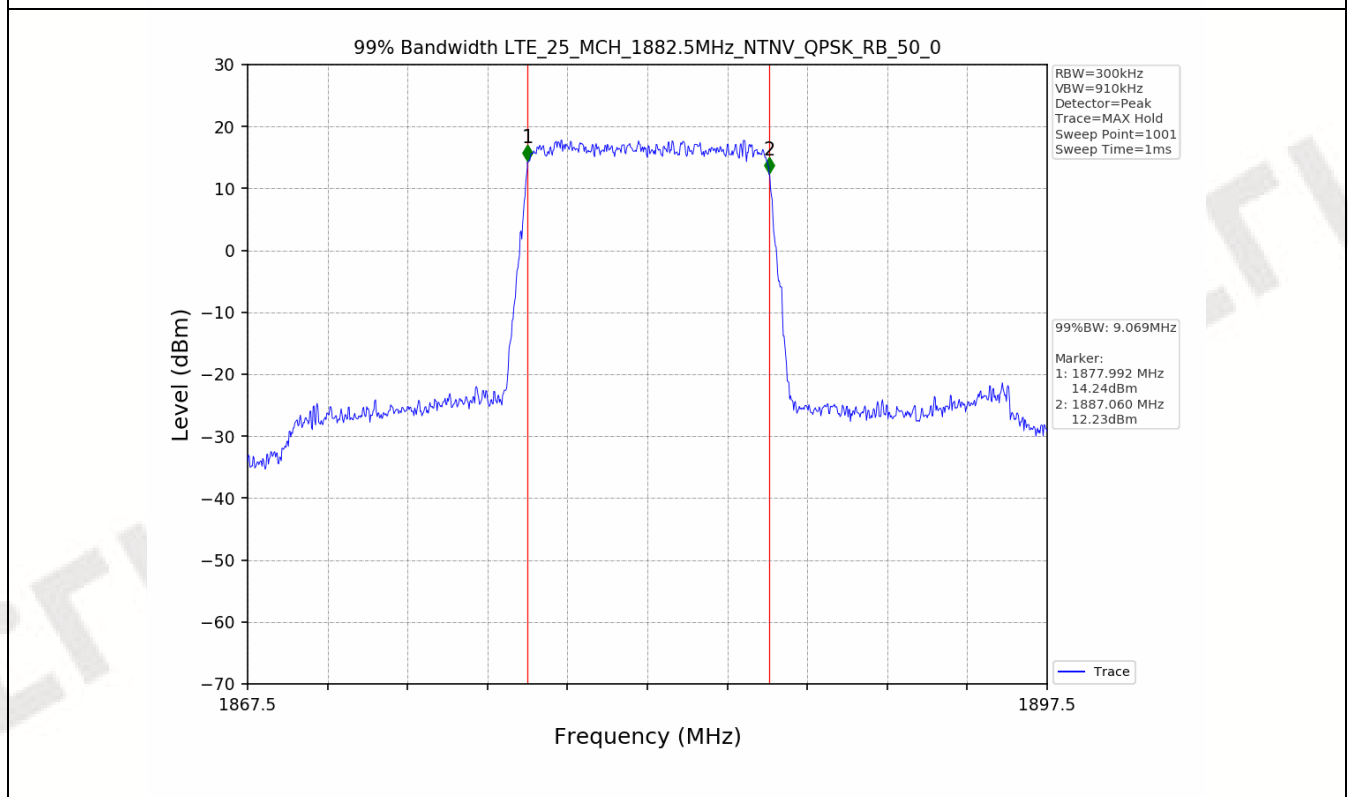
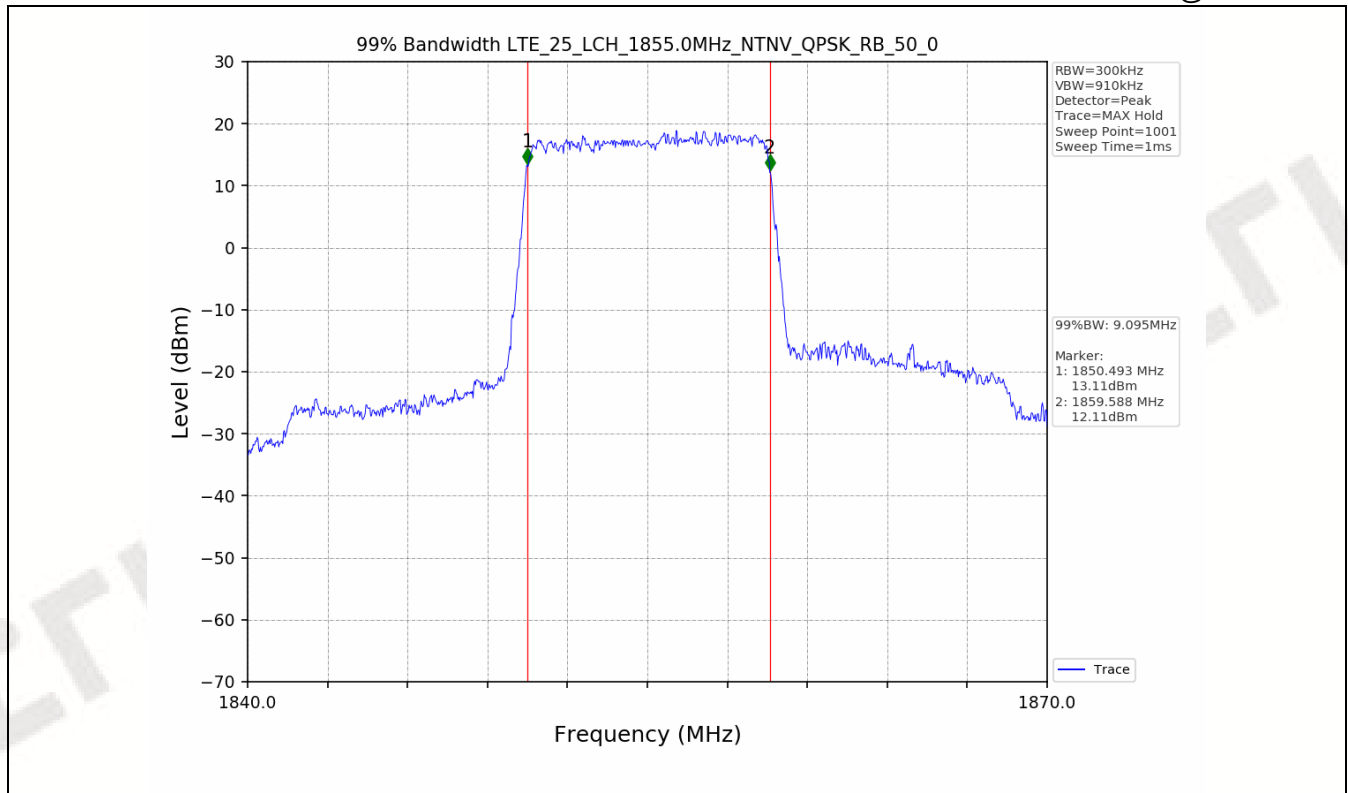


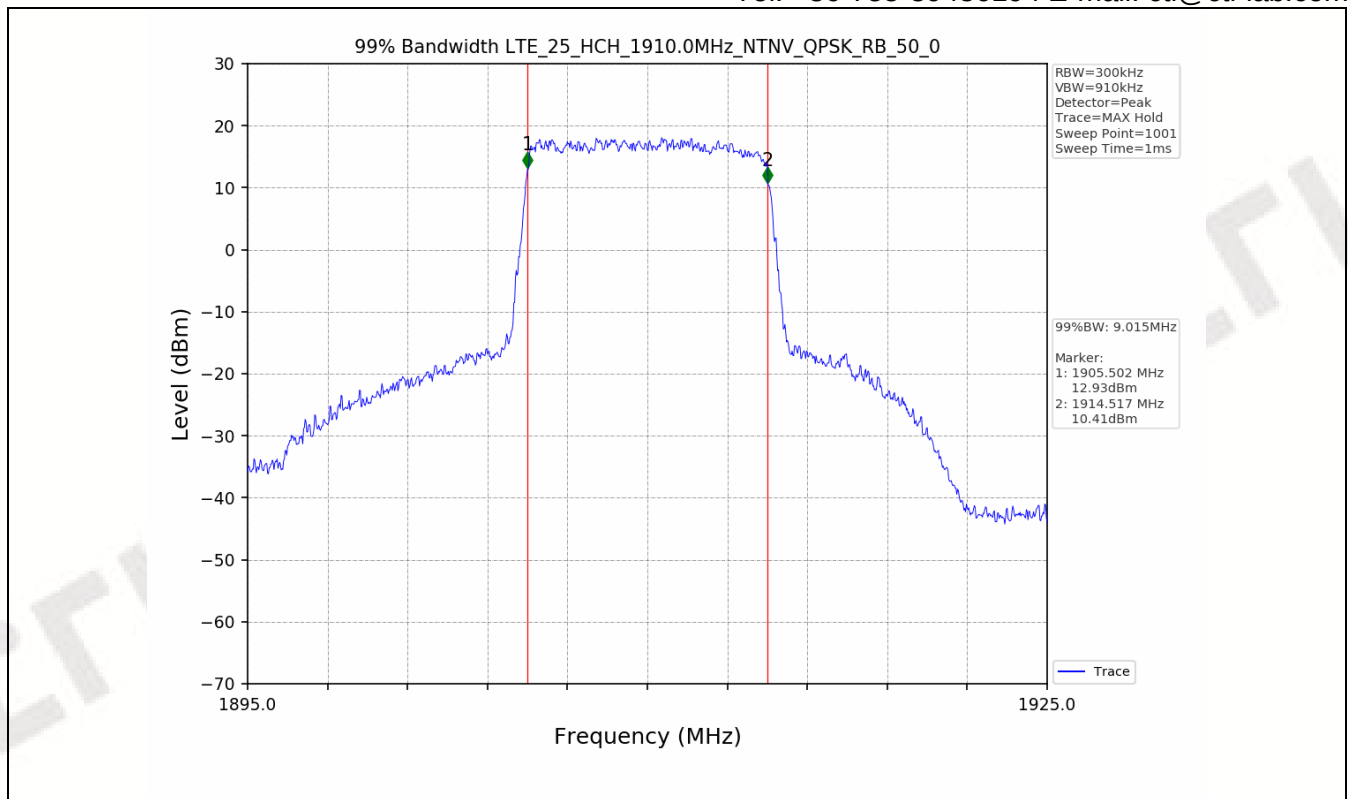
Test Band: 25_10MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	9.095	9.069	9.015	N/A	PASS
16QAM	50	0	9.070	9.070	9.034	N/A	PASS

4.2 Test Graph





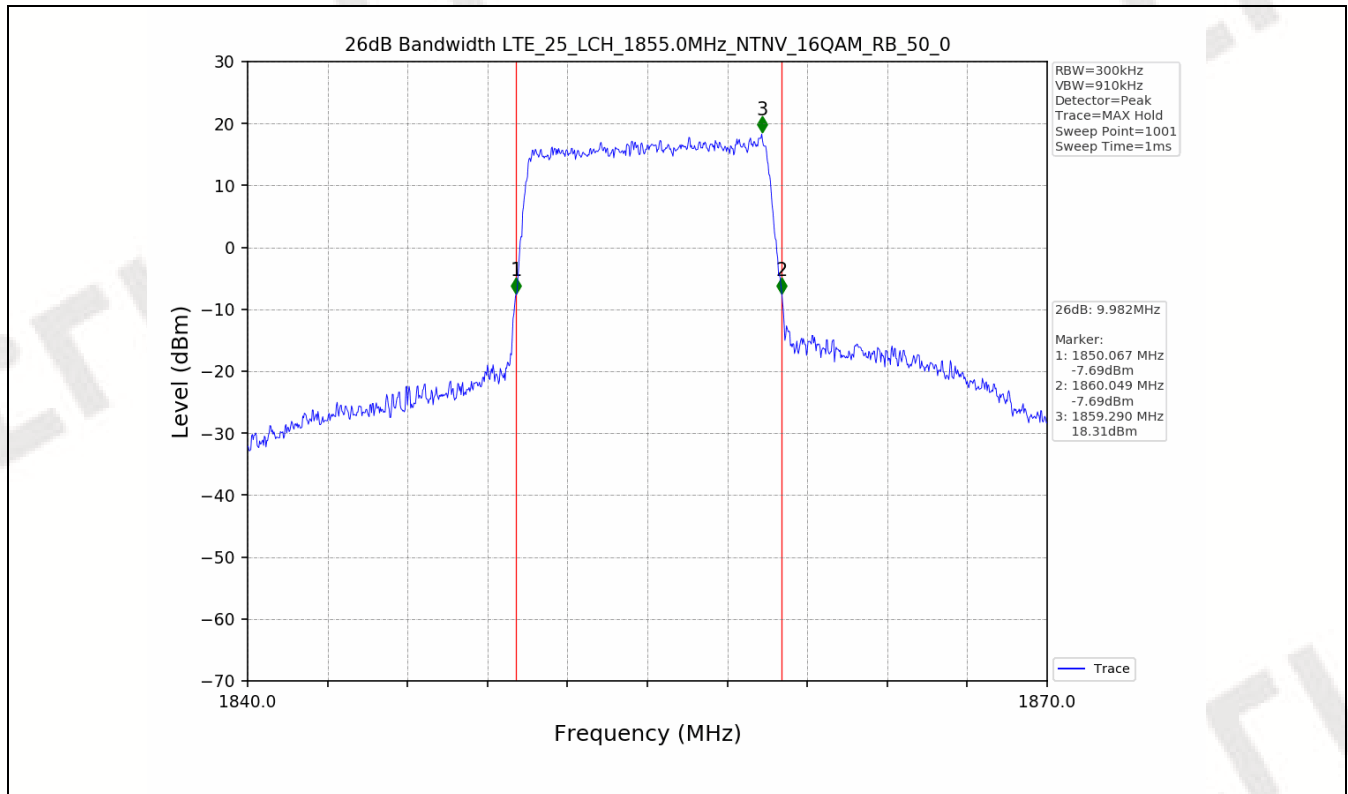


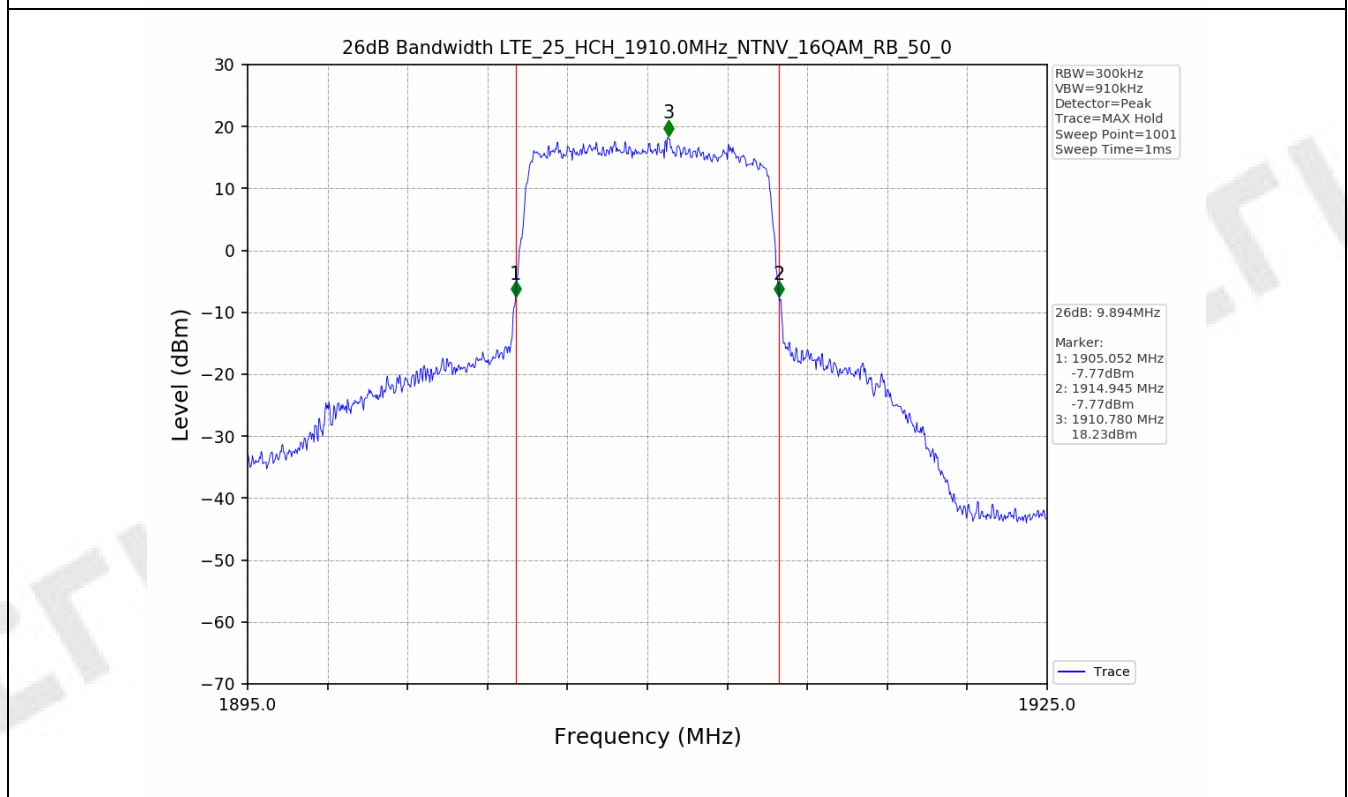
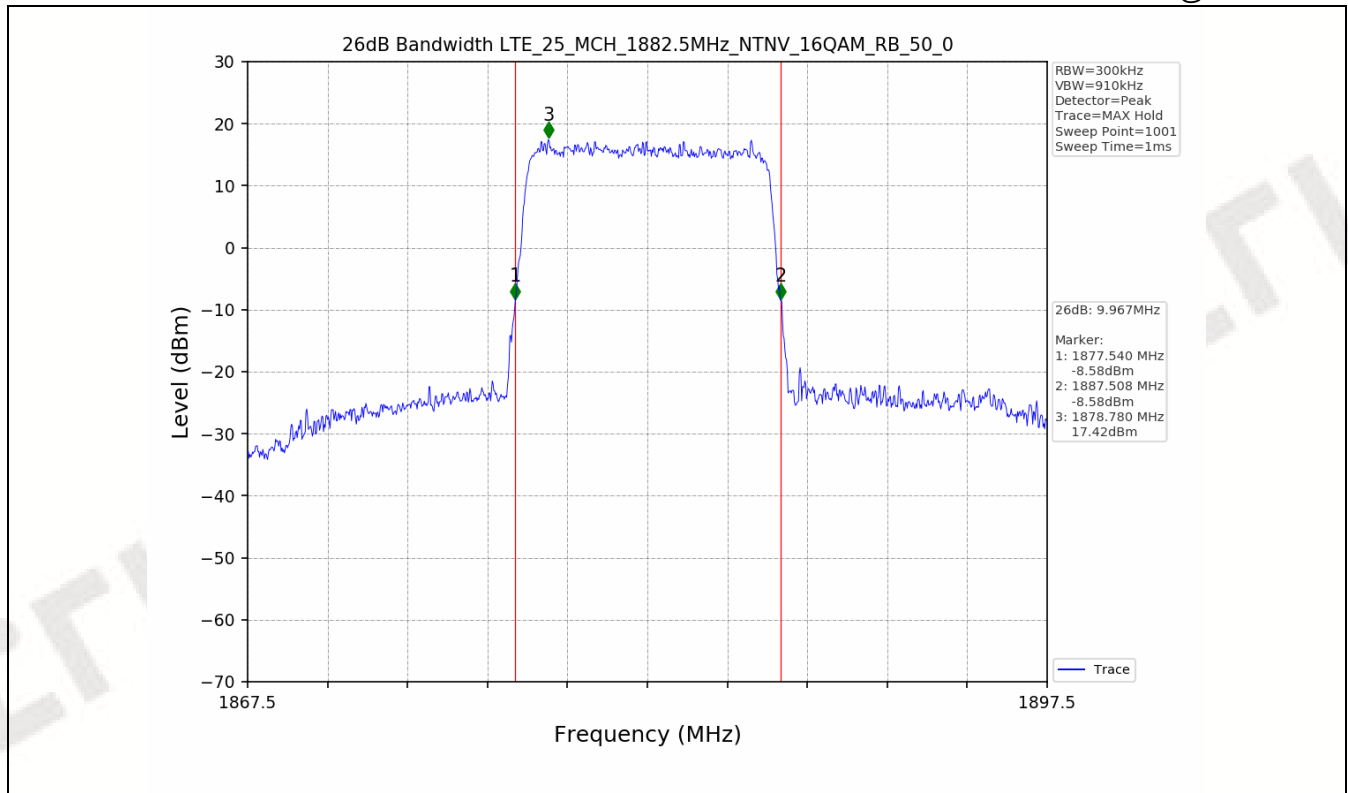


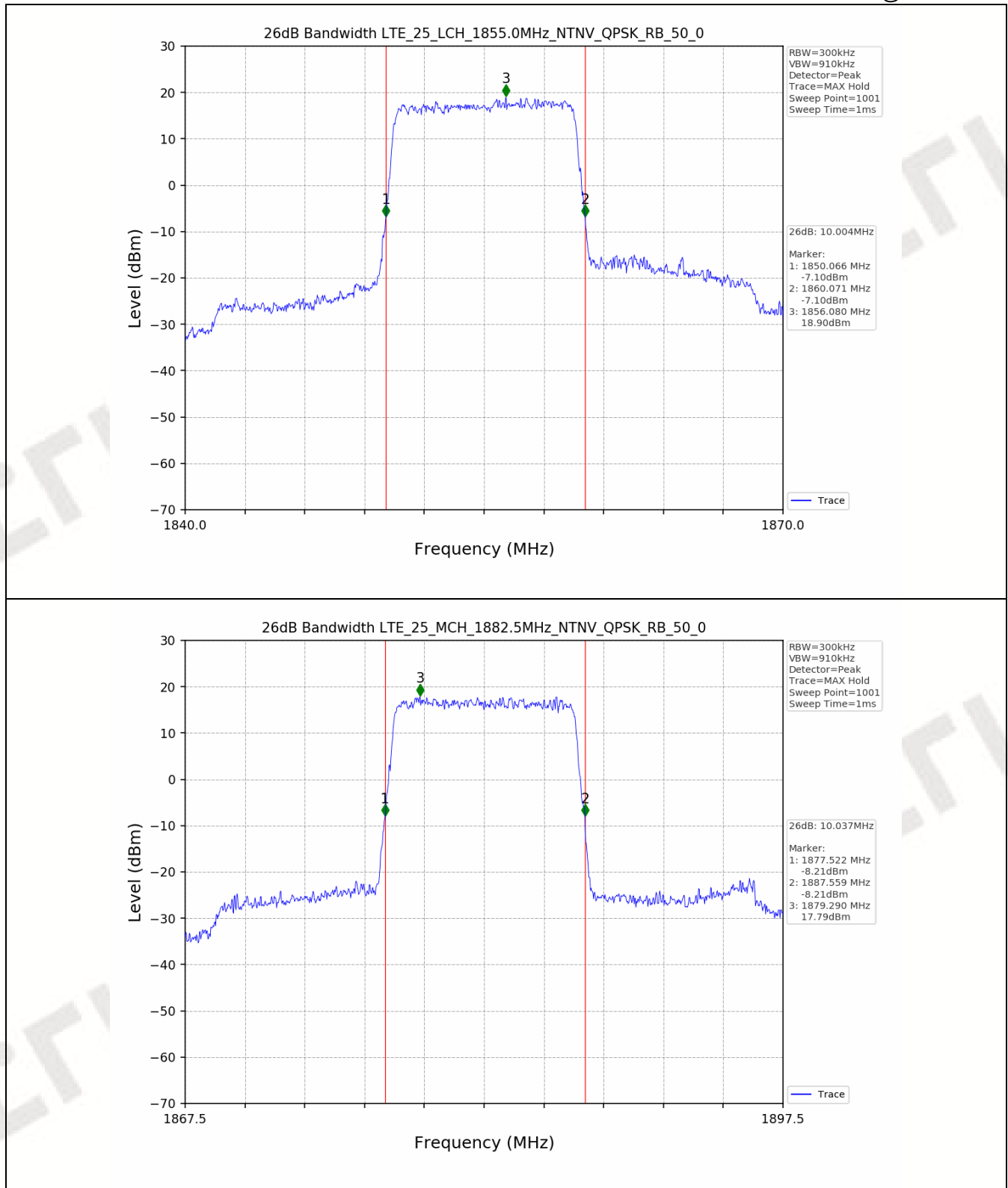


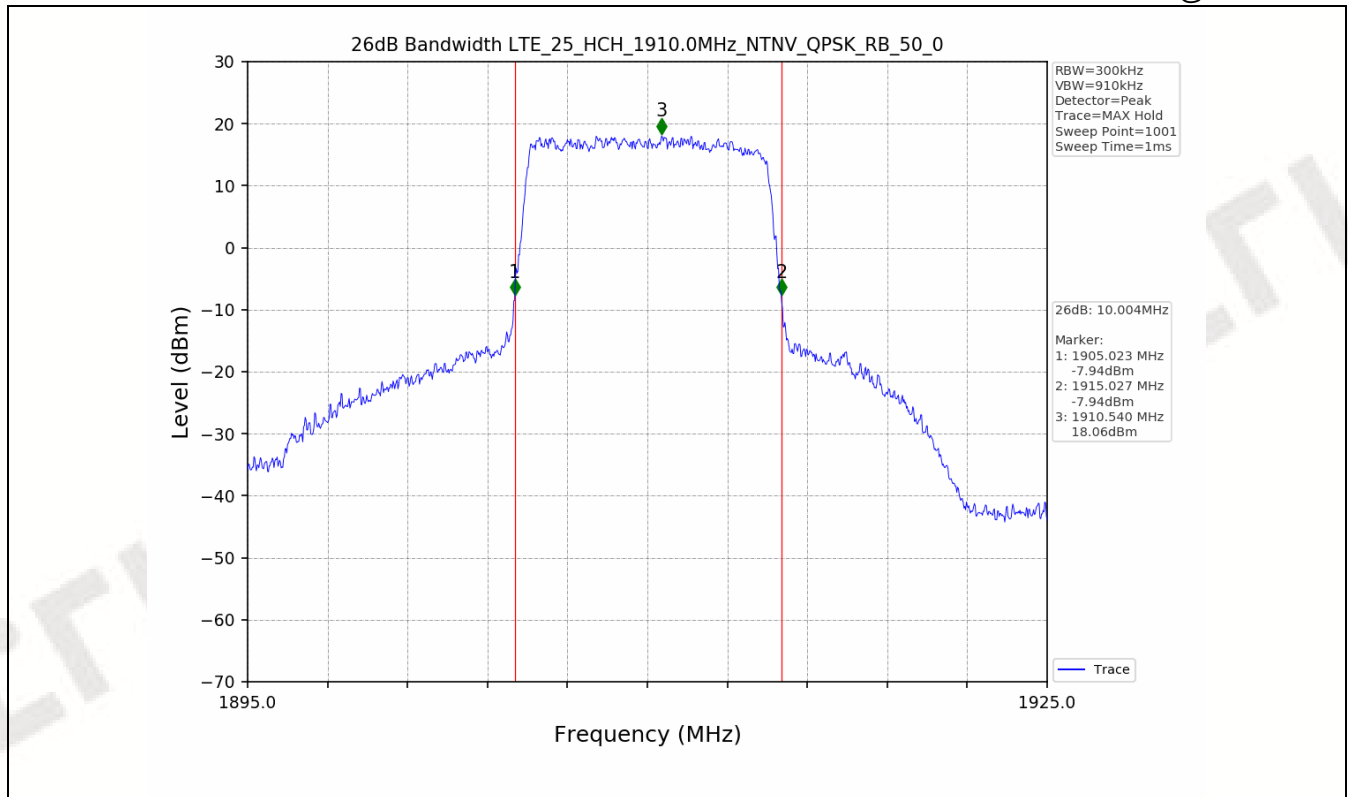
Test Band: 25_10MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	50	0	10.004	10.037	10.004	N/A	PASS
16QAM	50	0	9.982	9.967	9.894	N/A	PASS

4.2 Test Graph





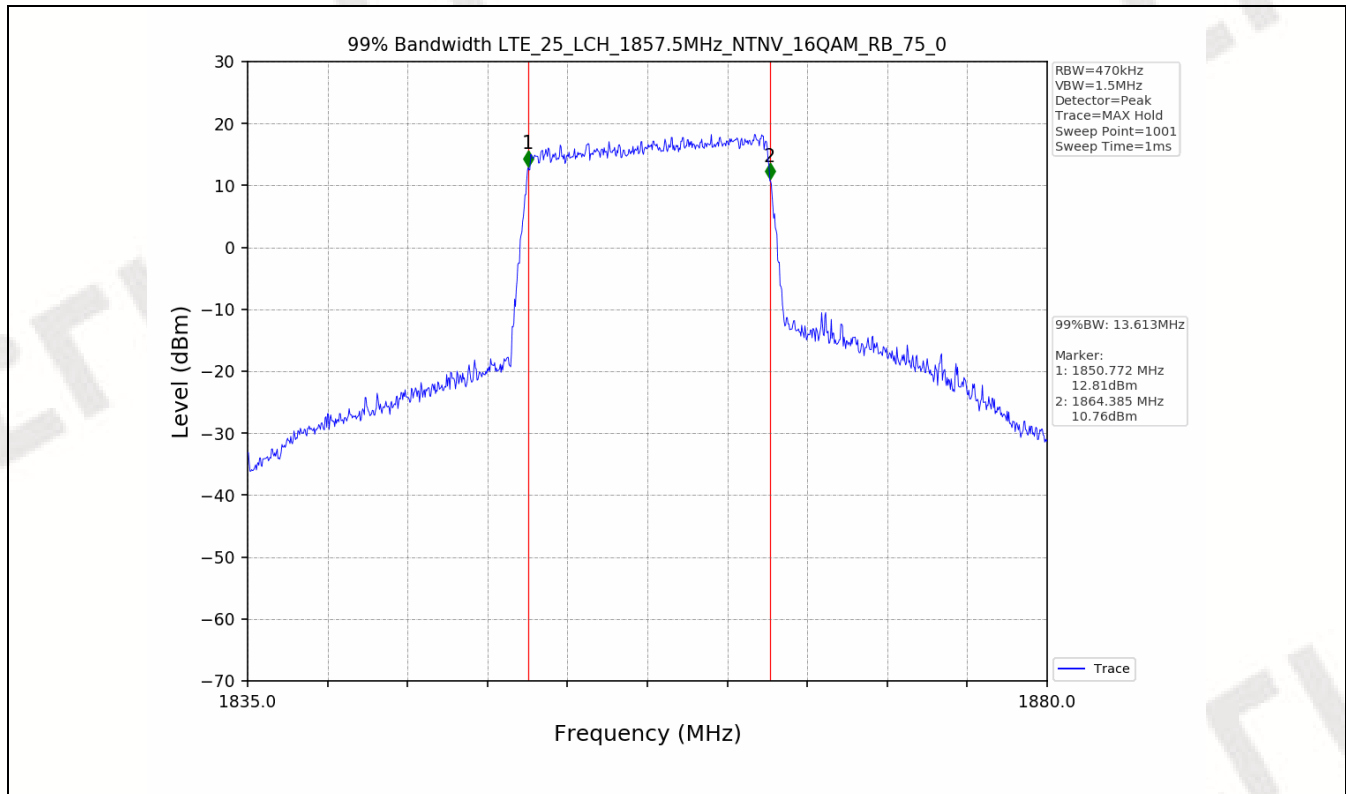


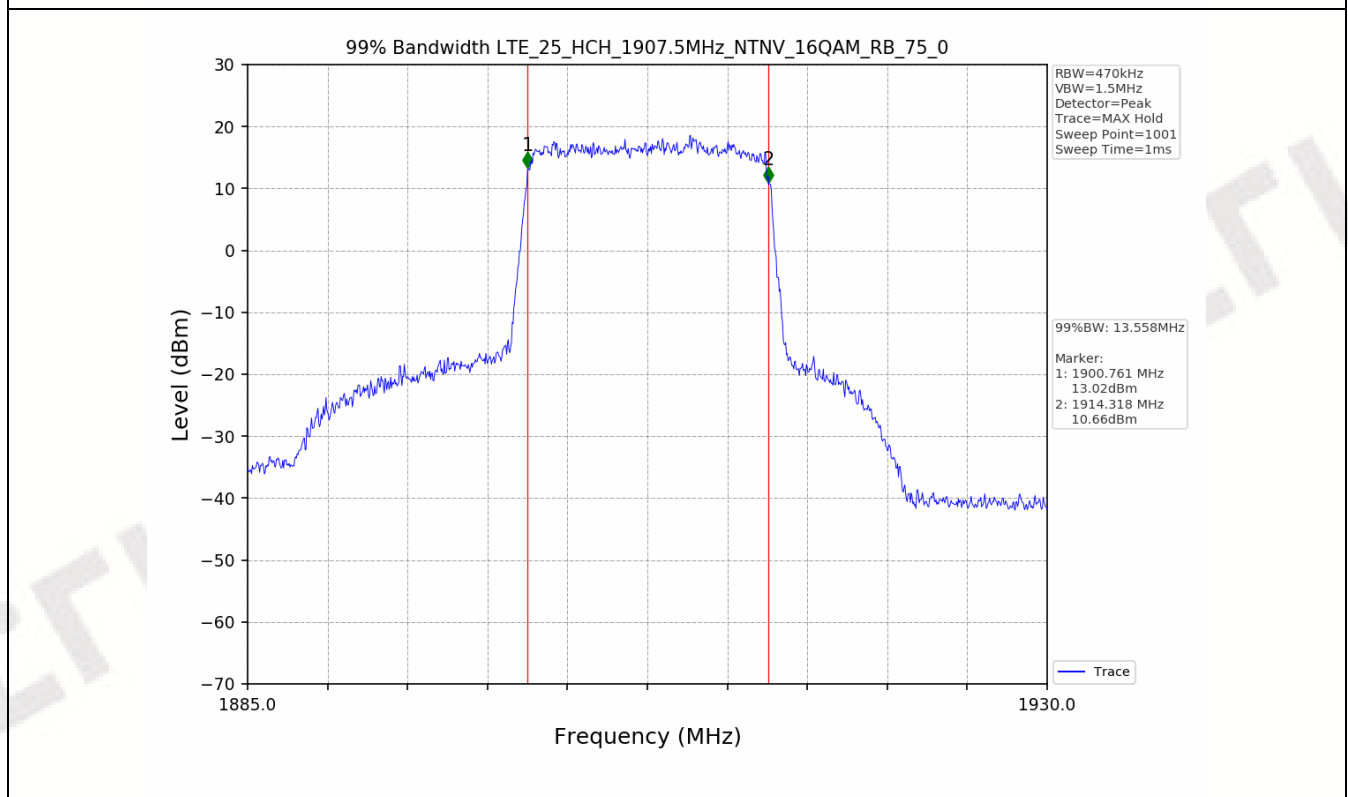
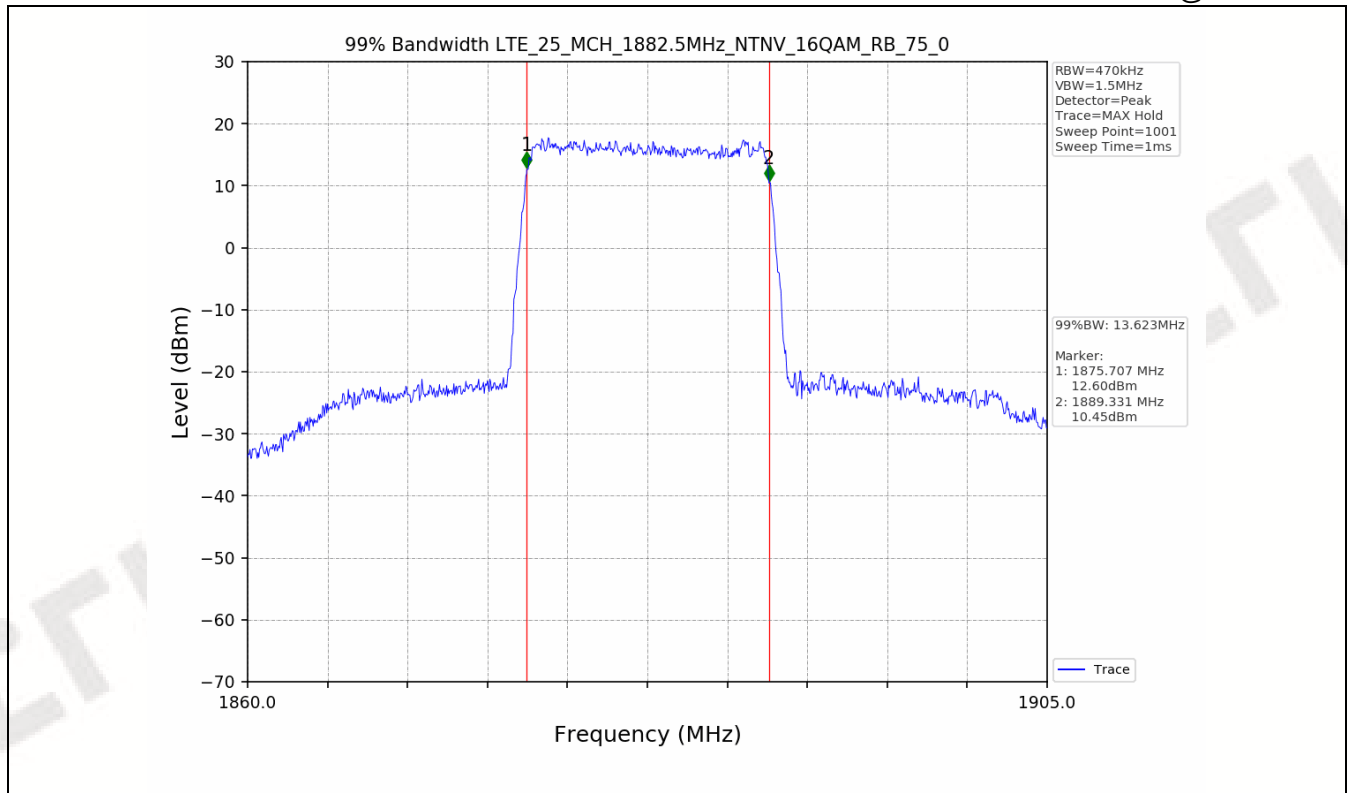


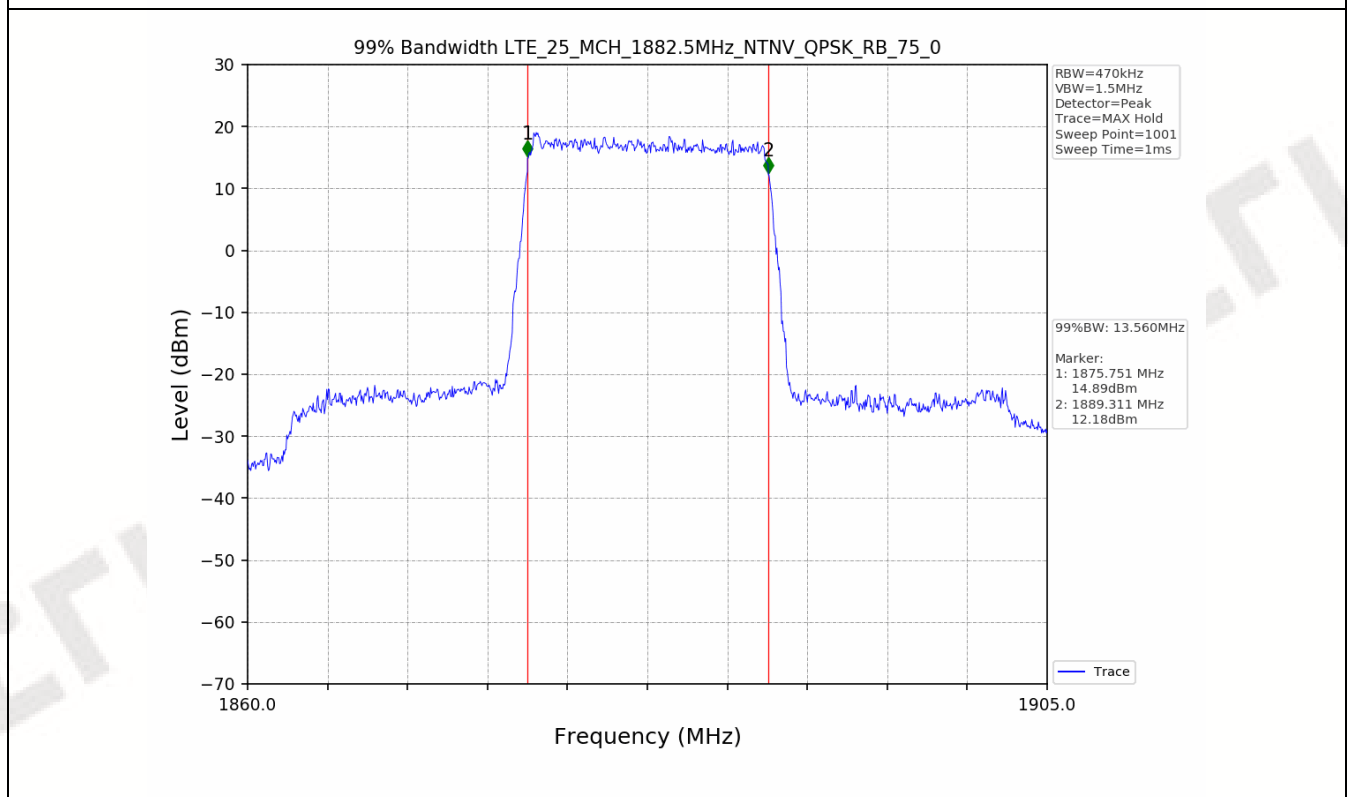
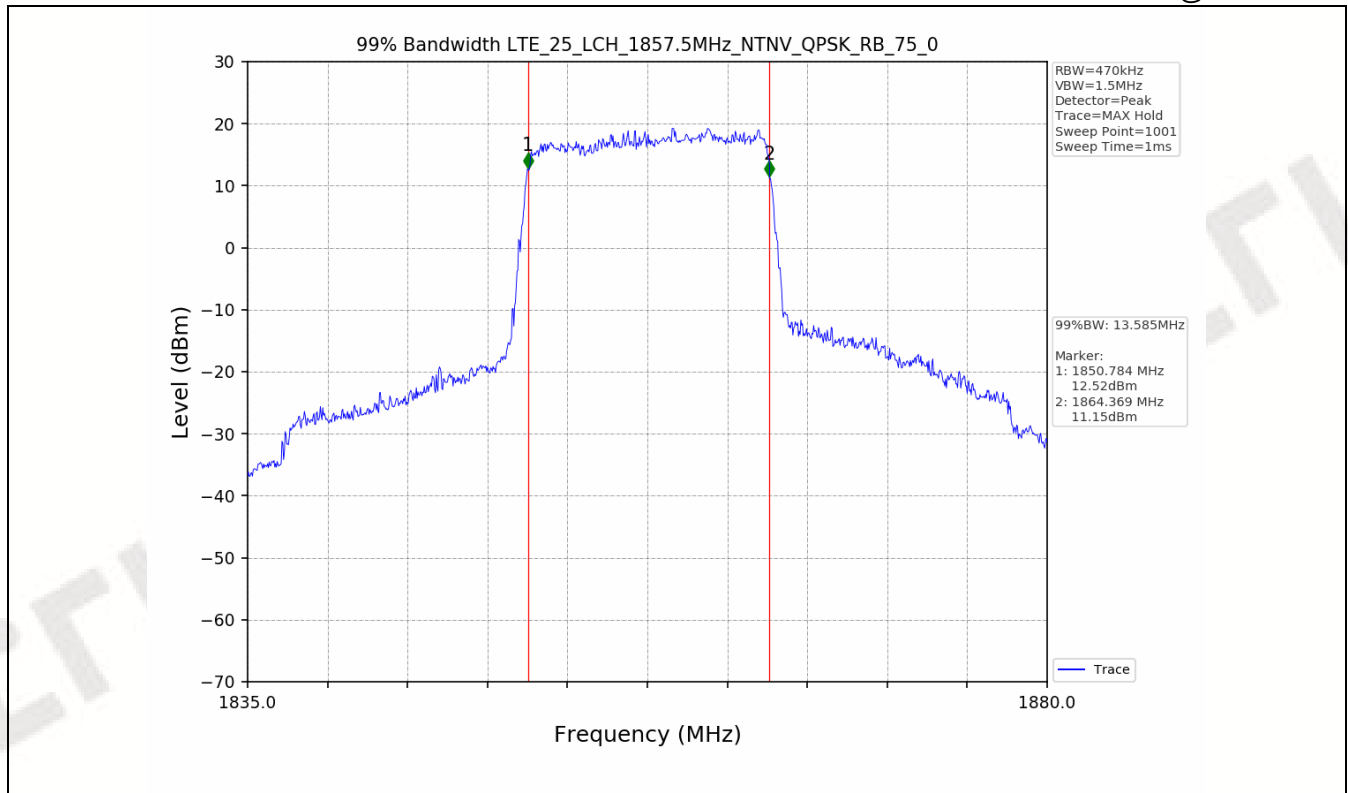


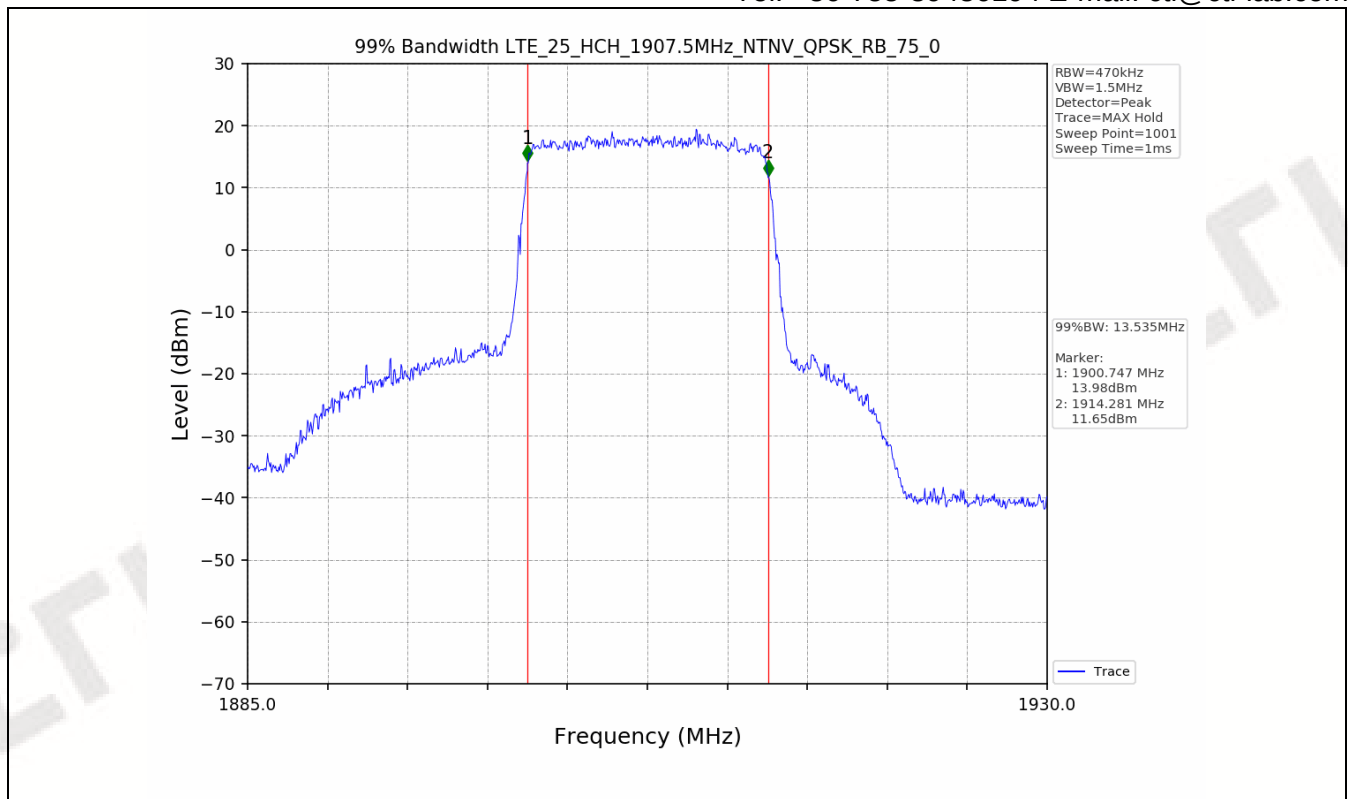
Test Band: 25_15MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	13.585	13.560	13.535	N/A	PASS
16QAM	75	0	13.613	13.623	13.558	N/A	PASS

4.2 Test Graph





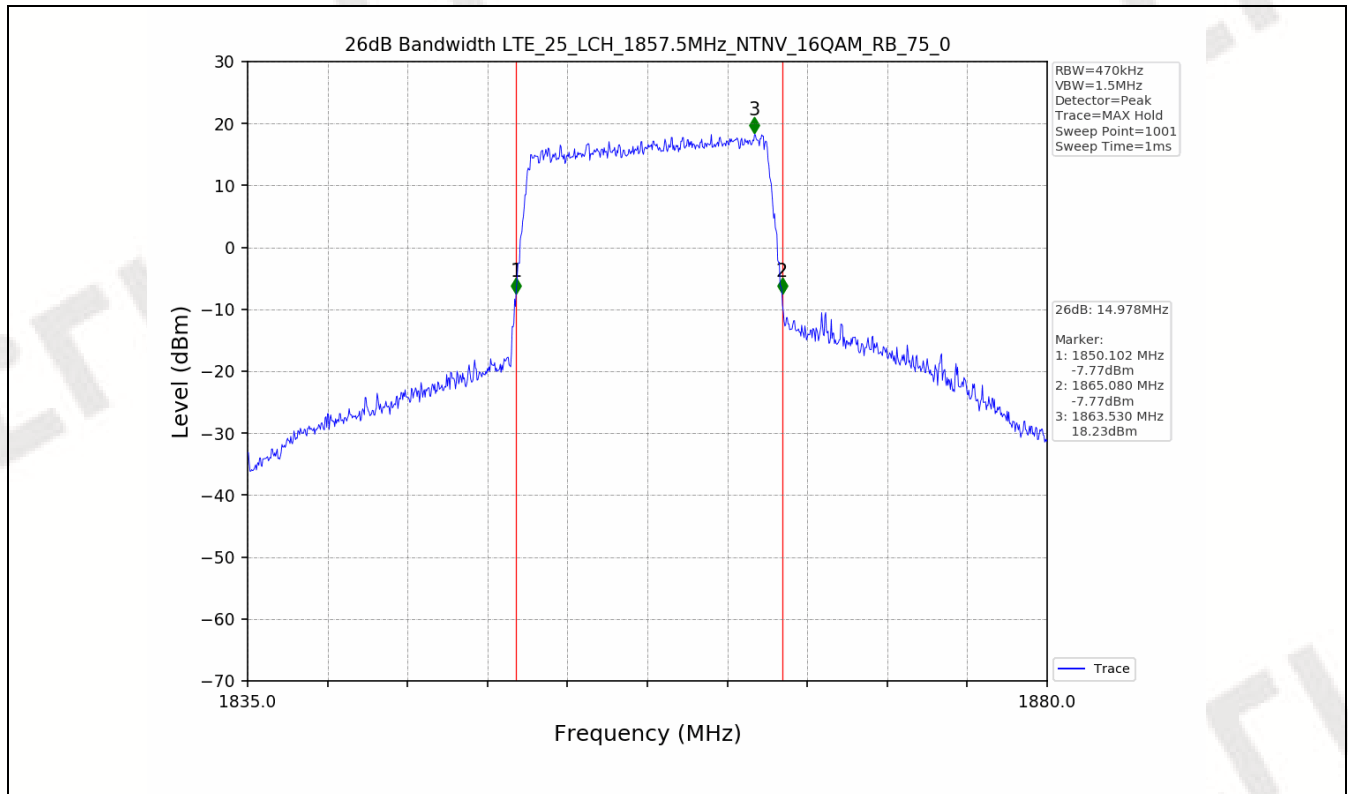


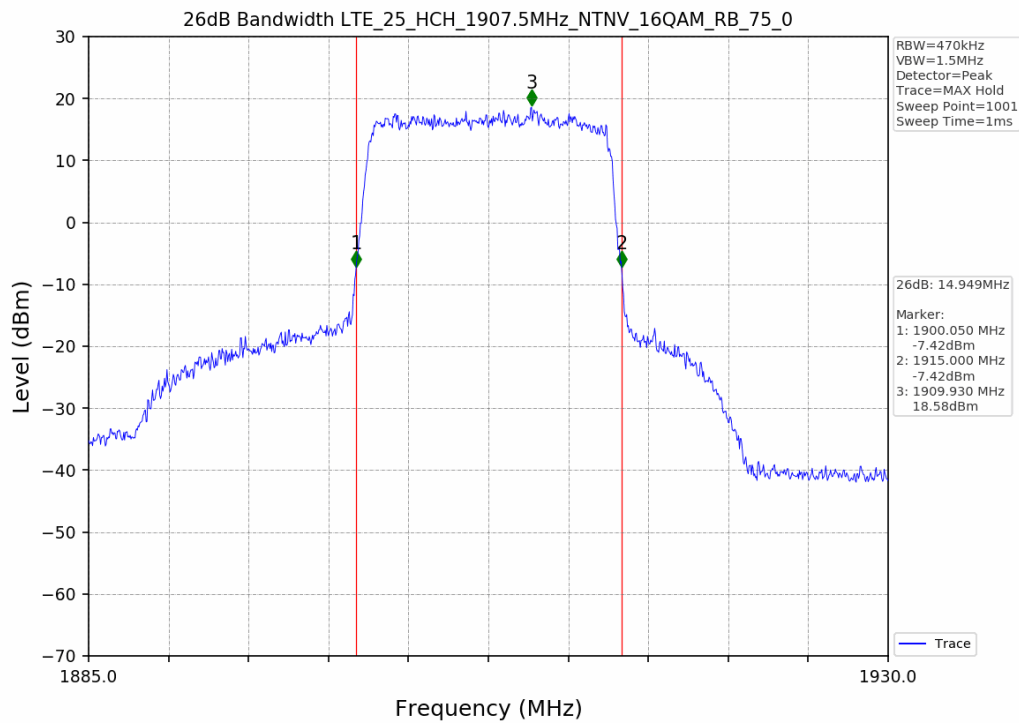
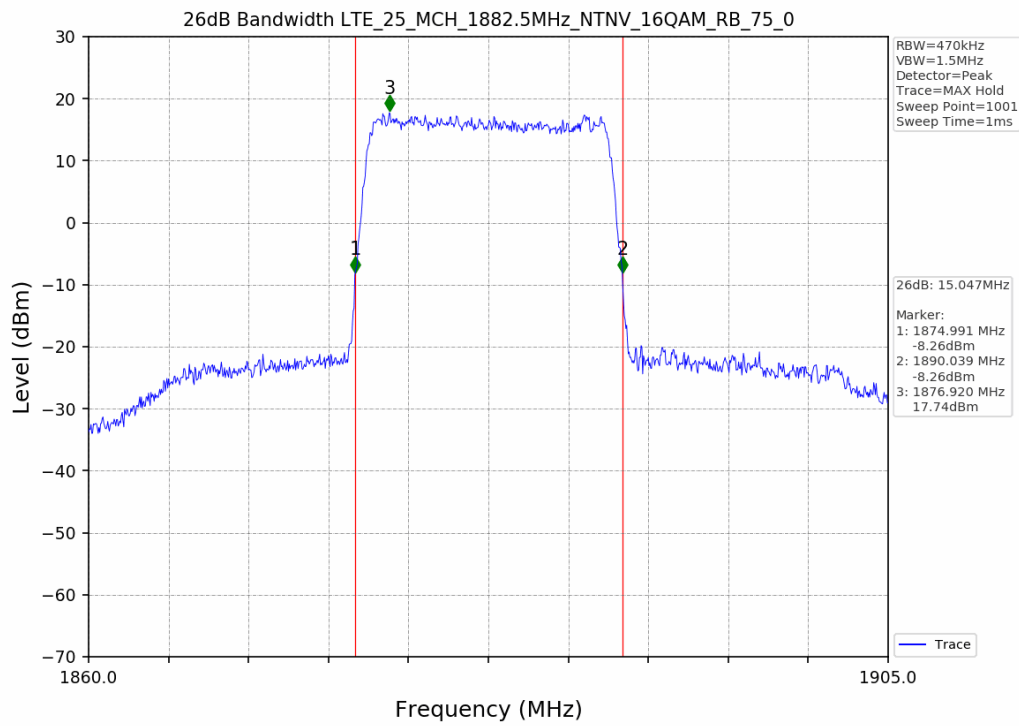


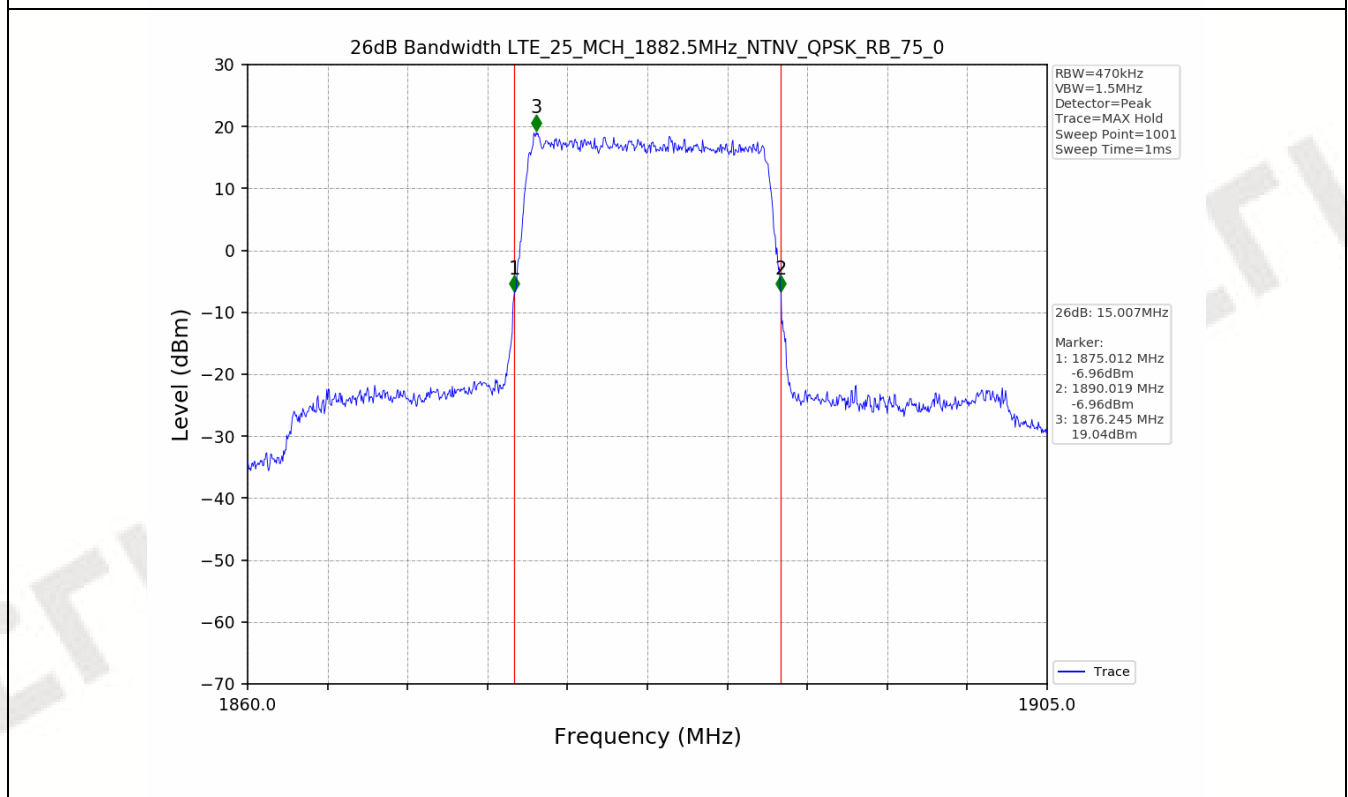
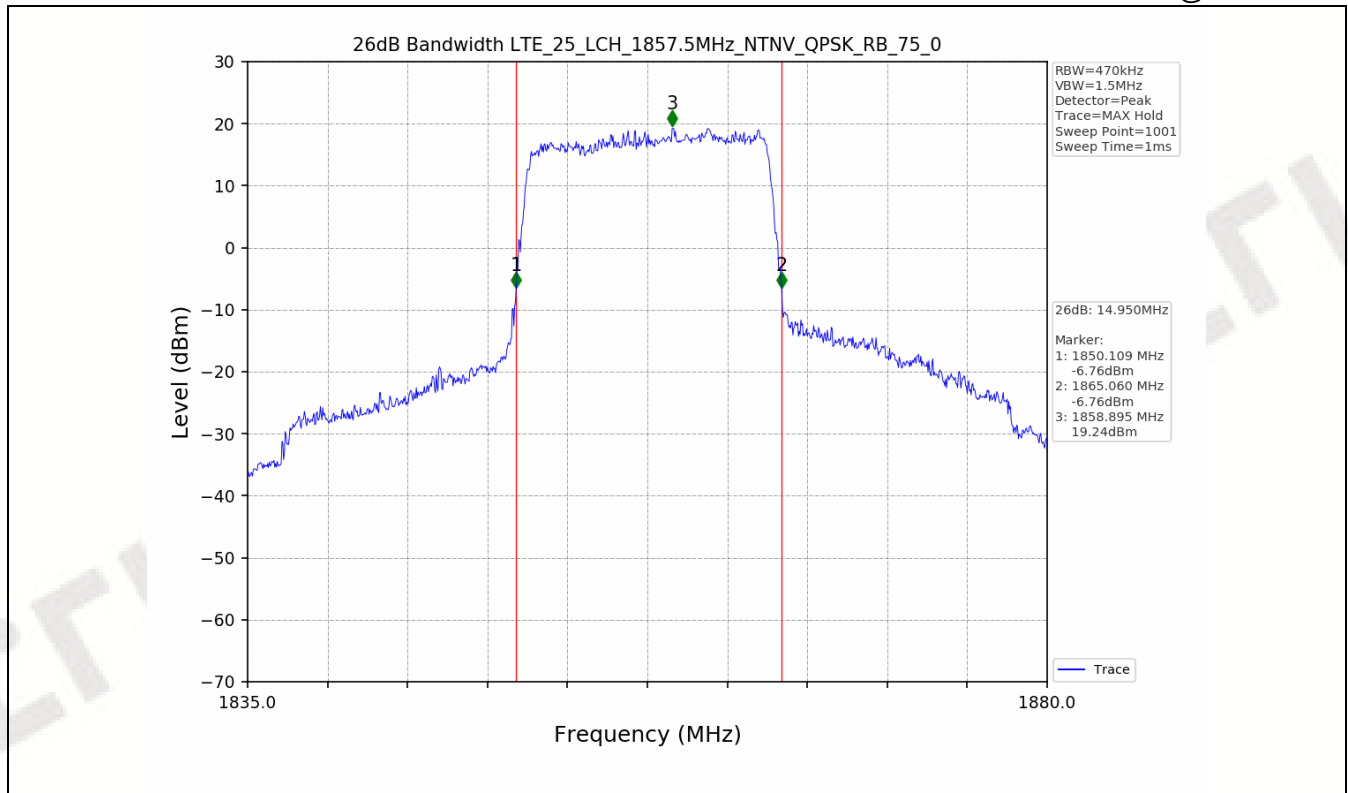


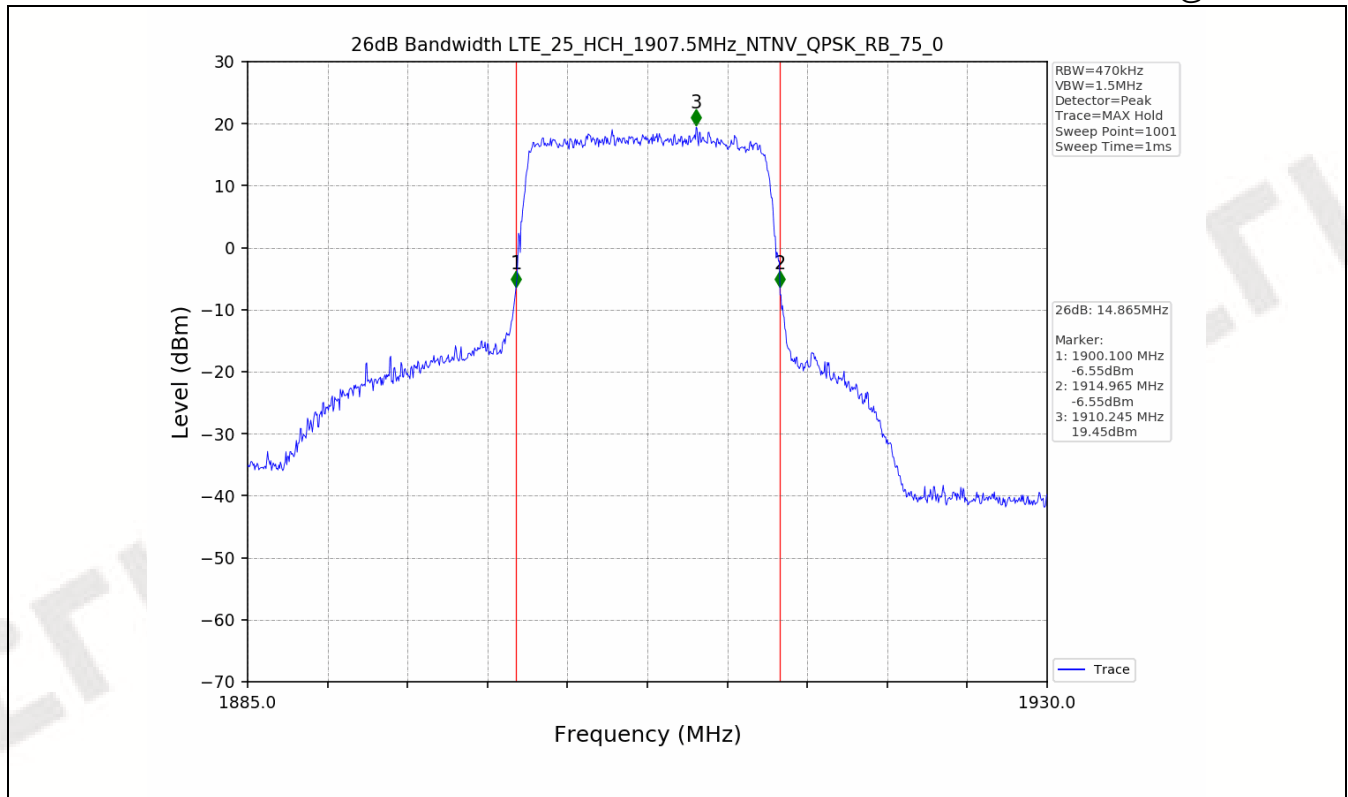
Test Band: 25_15MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	75	0	14.950	15.007	14.865	N/A	PASS
16QAM	75	0	14.978	15.047	14.949	N/A	PASS

4.2 Test Graph





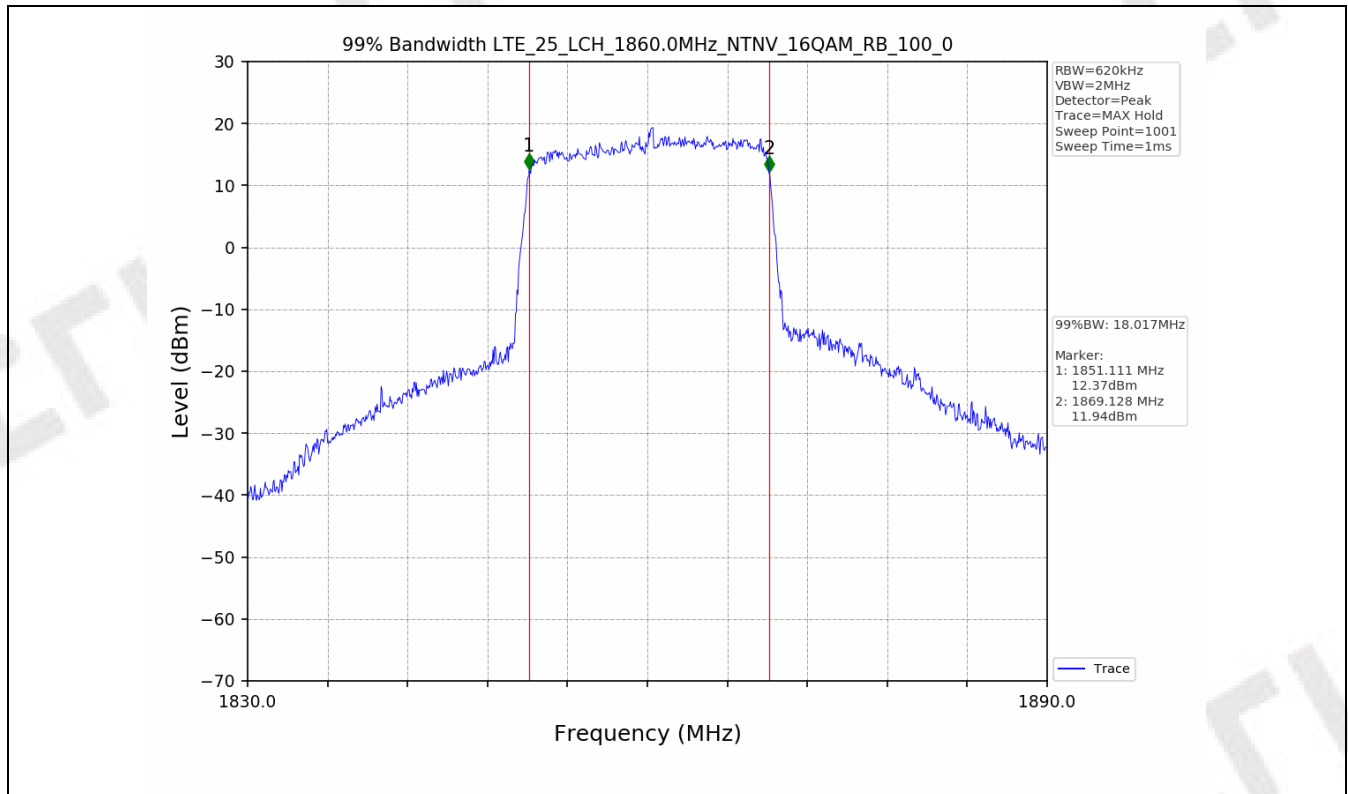


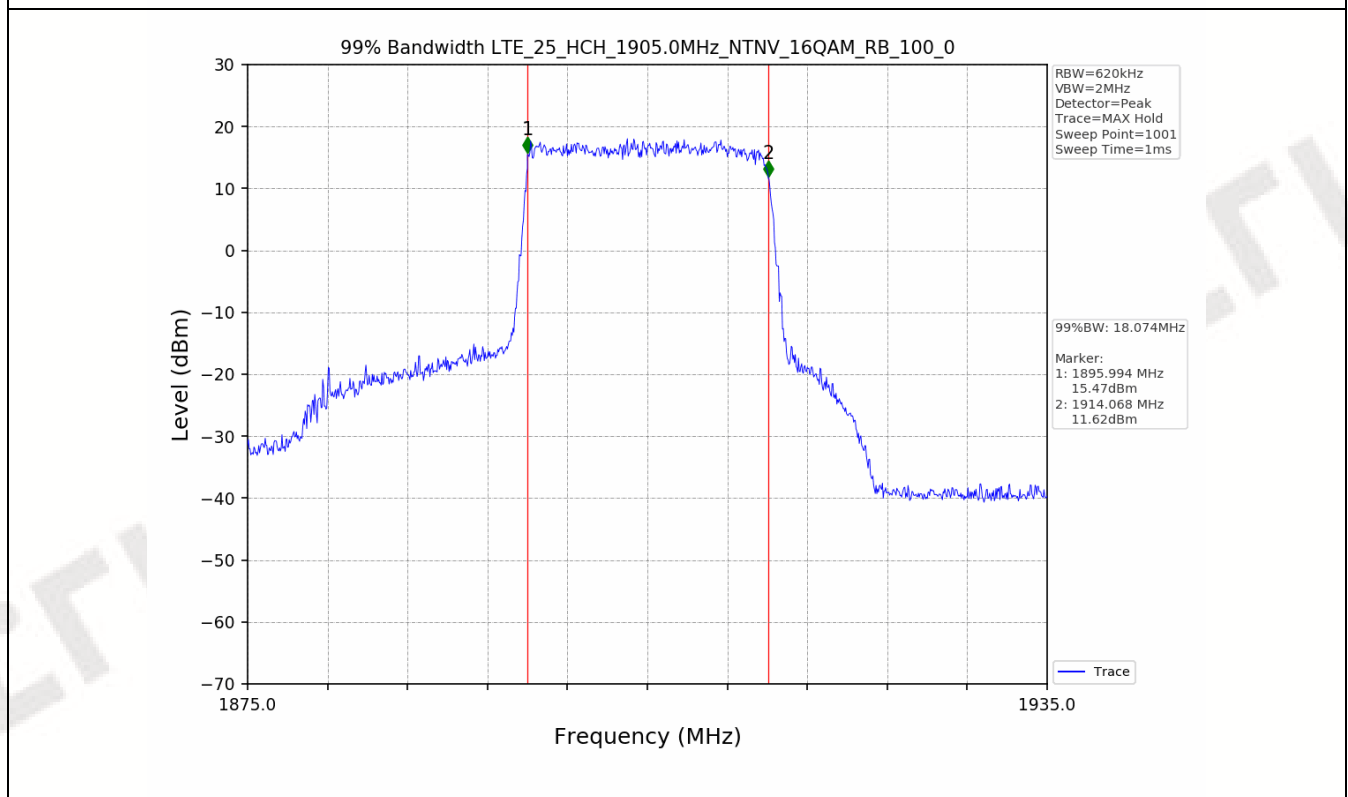
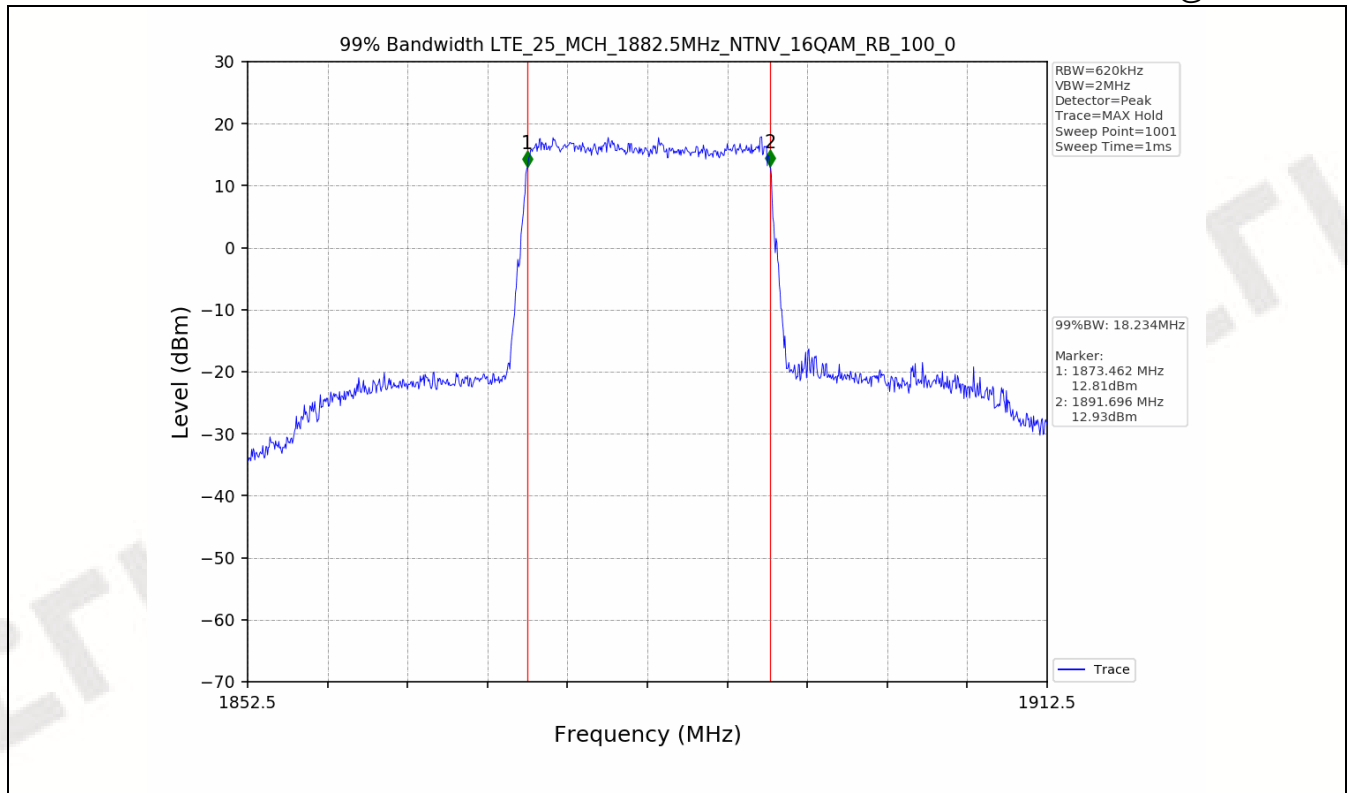


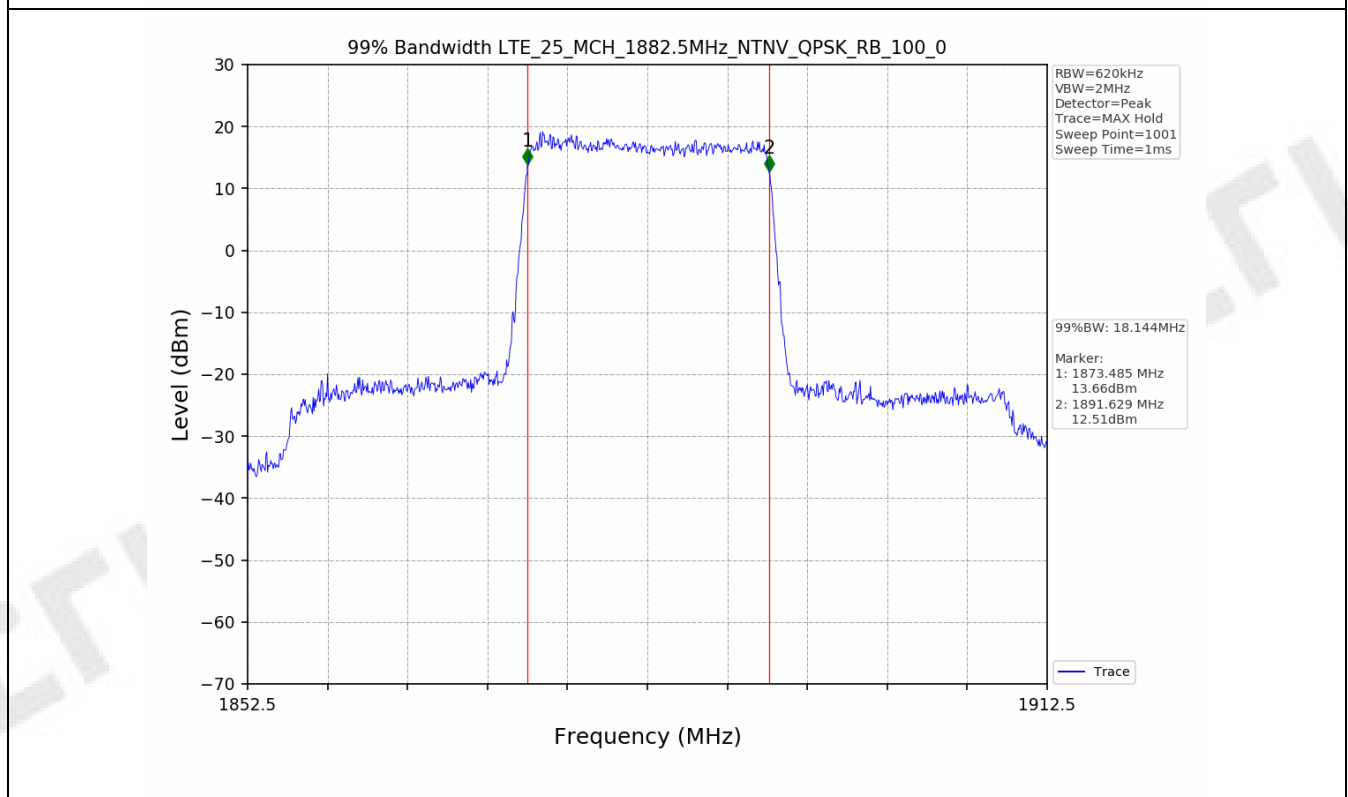
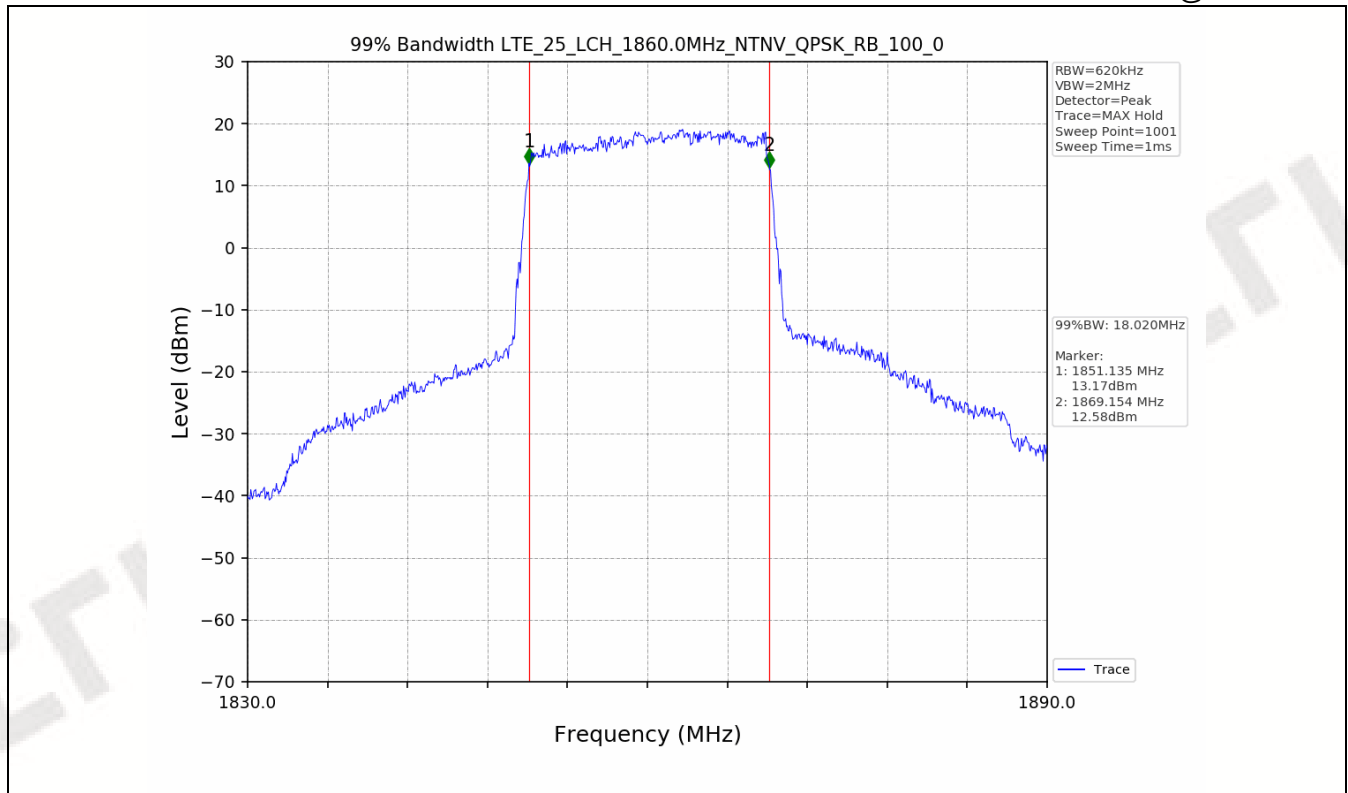


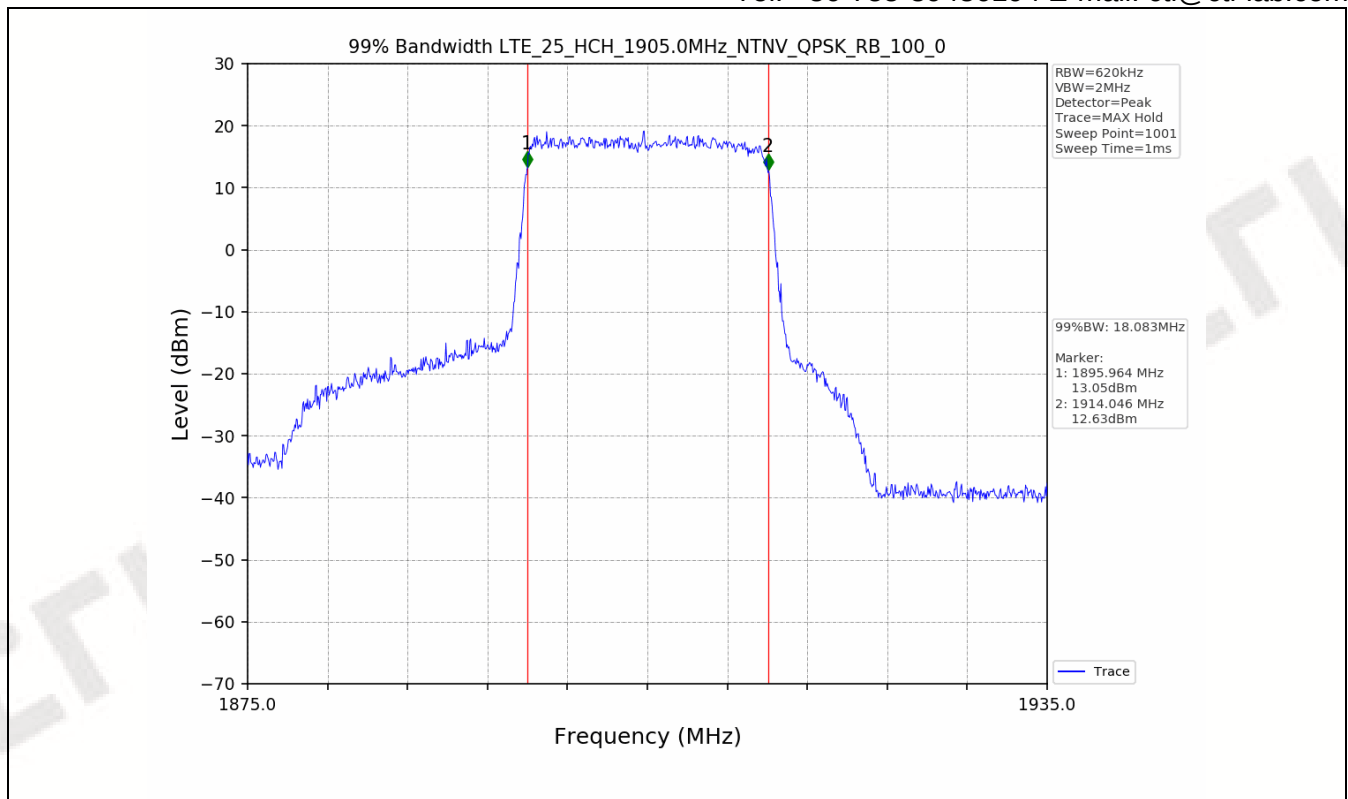
Test Band: 25 20MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	18.020	18.144	18.083	N/A	PASS
16QAM	100	0	18.017	18.234	18.074	N/A	PASS

4.2 Test Graph











Test Band: 25 20MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	100	0	19.929	19.857	19.981	N/A	PASS
16QAM	100	0	19.639	19.906	19.902	N/A	PASS

4.2 Test Graph

