1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Test Band: 4 _ 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	22.46	22.52	21.14	/	2.15	24.61	24.67	23.29	30.00	PASS
		2	22.43	22.57	21.11	/	2.15	24.58	24.72	23.26	30.00	PASS
		5	22.43	22.53	21.12	/	2.15	24.58	24.68	23.27	30.00	PASS
	3	0	22.51	22.96	21.23	/	2.15	24.66	25.11	23.38	30.00	PASS
		2	22.53	22.94	21.20	/	2.15	24.68	25.09	23.35	30.00	PASS
		3	22.51	22.90	21.20	/	2.15	24.66	25.05	23.35	30.00	PASS
	6	0	21.70	22.02	20.38	/	2.15	23.85	24.17	22.53	30.00	PASS
16QAM	1	0	21.56	22.18	20.52	/	2.15	23.71	24.33	22.67	30.00	PASS
		2	21.54	22.20	20.51	/	2.15	23.69	24.35	22.66	30.00	PASS
		5	21.49	22.18	20.44	/	2.15	23.64	24.33	22.59	30.00	PASS
	3	0	21.38	21.86	20.18	/	2.15	23.53	24.01	22.33	30.00	PASS
		2	21.38	21.86	20.16	/	2.15	23.53	24.01	22.31	30.00	PASS
		3	21.35	21.88	20.20	/	2.15	23.50	24.03	22.35	30.00	PASS
	6	0	20.80	21.11	19.55	/	2.15	22.95	23.26	21.70	30.00	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 4 _ 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	22.37	22.57	21.12	/	2.15	24.52	24.72	23.27	30.00	PASS
		7	22.35	22.59	21.01	/	2.15	24.50	24.74	23.16	30.00	PASS
		14	22.19	22.52	20.98	/	2.15	24.34	24.67	23.13	30.00	PASS
	8	0	21.54	21.84	20.34	/	2.15	23.69	23.99	22.49	30.00	PASS
		4	21.49	21.83	20.28	/	2.15	23.64	23.98	22.43	30.00	PASS
		7	21.50	21.80	20.29	/	2.15	23.65	23.95	22.44	30.00	PASS
	15	0	21.46	21.77	20.22	/	2.15	23.61	23.92	22.37	30.00	PASS
16QAM	1	0	21.97	21.93	20.70	/	2.15	24.12	24.08	22.85	30.00	PASS
		7	21.86	21.87	20.64	/	2.15	24.01	24.02	22.79	30.00	PASS
		14	21.81	21.82	20.52	/	2.15	23.96	23.97	22.67	30.00	PASS
	8	0	20.95	21.11	19.46	/	2.15	23.10	23.26	21.61	30.00	PASS
		4	20.86	21.11	19.36	/	2.15	23.01	23.26	21.51	30.00	PASS
		7	20.82	21.13	19.33	/	2.15	22.97	23.28	21.48	30.00	PASS
	15	0	20.70	20.91	19.39	/	2.15	22.85	23.06	21.54	30.00	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

Test Band: 4 _ 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	22.46	23.06	21.29	/	2.15	24.61	25.21	23.44	30.00	PASS
		13	22.31	22.96	21.11	/	2.15	24.46	25.11	23.26	30.00	PASS
		24	22.18	22.90	21.01	/	2.15	24.33	25.05	23.16	30.00	PASS
	12	0	21.49	21.84	20.39	/	2.15	23.64	23.99	22.54	30.00	PASS
		6	21.42	21.82	20.28	/	2.15	23.57	23.97	22.43	30.00	PASS
		13	21.37	21.78	20.21	/	2.15	23.52	23.93	22.36	30.00	PASS
	25	0	21.41	21.77	20.23	/	2.15	23.56	23.92	22.38	30.00	PASS

16QAM	1		21.39	22.36	20.26	/	2.15	23.54	24.51	22.41	30.00	PASS
		13	21.22	22.36	20.08	/	2.15	23.37	24.51	22.23	30.00	PASS
		24	21.08	22.32	19.96	/	2.15	23.23	24.47	22.11	30.00	PASS
	12	0	20.64	20.90	19.53	/	2.15	22.79	23.05	21.68	30.00	PASS
		6	20.54	20.87	19.44	/	2.15	22.69	23.02	21.59	30.00	PASS
		13	20.49	20.84	19.34	/	2.15	22.64	22.99	21.49	30.00	PASS
	25	0	20.56	20.83	19.49	/	2.15	22.71	22.98	21.64	30.00	PASS

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

Test Band: 4 _ 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	22.40	22.54	21.75	/	2.15	24.55	24.69	23.90	30.00	PASS
		25	22.11	22.65	21.35	/	2.15	24.26	24.80	23.50	30.00	PASS
		49	22.14	22.42	21.02	/	2.15	24.29	24.57	23.17	30.00	PASS
	25	0	21.38	21.75	20.65	/	2.15	23.53	23.90	22.80	30.00	PASS
		13	21.30	21.72	20.45	/	2.15	23.45	23.87	22.60	30.00	PASS
		25	21.25	21.66	20.26	/	2.15	23.40	23.81	22.41	30.00	PASS
	50	0	21.33	21.72	20.45	/	2.15	23.48	23.87	22.60	30.00	PASS
16QAM	1	0	21.73	22.09	20.88	/	2.15	23.88	24.24	23.03	30.00	PASS
		25	21.70	22.12	20.44	/	2.15	23.85	24.27	22.59	30.00	PASS
		49	21.68	22.03	20.11	/	2.15	23.83	24.18	22.26	30.00	PASS
	25	0	20.56	20.96	19.89	/	2.15	22.71	23.11	22.04	30.00	PASS
		13	20.47	20.88	19.68	/	2.15	22.62	23.03	21.83	30.00	PASS
		25	20.42	20.87	19.54	/	2.15	22.57	23.02	21.69	30.00	PASS
	50	0	20.45	20.85	19.57	/	2.15	22.60	23.00	21.72	30.00	PASS

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

Test Band: 4 _ 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	22.42	22.46	22.13	/	2.15	24.57	24.61	24.28	30.00	PASS
		38	22.15	22.52	21.44	/	2.15	24.30	24.67	23.59	30.00	PASS
		74	22.44	22.25	20.87	/	2.15	24.59	24.40	23.02	30.00	PASS
	36	0	21.43	21.80	21.06	/	2.15	23.58	23.95	23.21	30.00	PASS
		18	21.34	21.81	20.74	/	2.15	23.49	23.96	22.89	30.00	PASS
		39	21.43	21.62	20.41	/	2.15	23.58	23.77	22.56	30.00	PASS
	75	0	21.38	21.70	20.72	/	2.15	23.53	23.85	22.87	30.00	PASS
16QAM	1	0	21.81	22.05	21.66	/	2.15	23.96	24.20	23.81	30.00	PASS
		38	21.57	22.13	21.03	/	2.15	23.72	24.28	23.18	30.00	PASS
		74	21.85	21.88	20.45	/	2.15	24.00	24.03	22.60	30.00	PASS
	36	0	20.53	20.96	20.24	/	2.15	22.68	23.11	22.39	30.00	PASS
		18	20.47	20.93	19.92	/	2.15	22.62	23.08	22.07	30.00	PASS
		39	20.55	20.84	19.56	/	2.15	22.70	22.99	21.71	30.00	PASS
	75	0	20.53	20.90	19.84	/	2.15	22.68	23.05	21.99	30.00	PASS

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

Test Band: 4 _ 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	22.56	22.39	22.58	/	2.15	24.71	24.54	24.73	30.00	PASS
		50	22.39	22.40	21.86	/	2.15	24.54	24.55	24.01	30.00	PASS
		99	22.77	22.03	21.15	/	2.15	24.92	24.18	23.30	30.00	PASS
	50	0	21.28	21.63	21.23	/	2.15	23.43	23.78	23.38	30.00	PASS
		25	21.30	21.68	20.84	/	2.15	23.45	23.83	22.99	30.00	PASS
		50	21.49	21.46	20.44	/	2.15	23.64	23.61	22.59	30.00	PASS
	100	0	21.43	21.61	20.80	/	2.15	23.58	23.76	22.95	30.00	PASS
16QAM	1	0	21.90	22.15	21.79	/	2.15	24.06	24.30	23.94	30.00	PASS
		50	21.65	22.38	21.04	/	2.15	23.80	24.53	23.19	30.00	PASS
		99	22.23	21.92	20.29	/	2.15	24.38	24.07	22.44	30.00	PASS
	50	0	20.41	20.75	20.41	/	2.15	22.56	22.90	22.56	30.00	PASS
		25	20.43	20.76	20.03	/	2.15	22.58	22.91	22.18	30.00	PASS
		50	20.64	20.60	19.59	/	2.15	22.79	22.75	21.74	30.00	PASS
	100	0	20.53	20.72	19.97	/	2.15	22.68	22.87	22.12	30.00	PASS
Note: 1) dBd = dBi - 2.15 2) EIRP = Conducted output power + Antenna gain (dBi)												

2. Frequency stability

2.1 Test Result

Test Band: 4 _ 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	-20.5278	-31.9004	-50.4398	-0.0120	-0.0184	-0.0288	2.50	PASS
				NV	-19.2404	-31.8146	-54.7457	-0.0112	-0.0184	-0.0312	2.50	PASS
				HV	-18.6396	-37.1218	-51.5127	-0.0109	-0.0214	-0.0294	2.50	PASS
16QAM	6	0	NT	LV	-19.1688	-61.9412	-39.4678	-0.0112	-0.0358	-0.0225	2.50	PASS
				NV	-18.3678	-50.1966	-38.8098	-0.0107	-0.0290	-0.0221	2.50	PASS
				HV	-21.1716	-54.5025	-37.7083	-0.0124	-0.0315	-0.0215	2.50	PASS

Test Band: 4 _ 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	-20.7138	-41.4848	-55.8042	-0.0121	-0.0239	-0.0318	2.50	PASS
				-20.00	-20.3276	-32.8875	-53.2722	-0.0119	-0.0190	-0.0304	2.50	PASS
				-10.00	-29.0537	-42.5434	-36.4924	-0.0170	-0.0246	-0.0208	2.50	PASS
				0.00	-26.3071	-23.9897	-38.0516	-0.0154	-0.0138	-0.0217	2.50	PASS
				10.00	-29.1395	-31.5142	-38.0945	-0.0170	-0.0182	-0.0217	2.50	PASS
				20.00	-24.7192	-28.6102	-37.5795	-0.0144	-0.0165	-0.0214	2.50	PASS
				30.00	-33.4883	-37.7655	-44.7321	-0.0196	-0.0218	-0.0255	2.50	PASS
				40.00	-28.7676	-40.5407	-44.2457	-0.0168	-0.0234	-0.0252	2.50	PASS
				50.00	-27.0081	-26.0639	-43.6878	-0.0158	-0.0150	-0.0249	2.50	PASS
16QAM	6	0	NV	-30.00	-20.8426	-34.4181	-39.4392	-0.0122	-0.0199	-0.0225	2.50	PASS
				-20.00	-25.0483	-37.6654	-33.7028	-0.0146	-0.0217	-0.0192	2.50	PASS
				-10.00	-30.1695	-33.1879	-32.0292	-0.0176	-0.0192	-0.0183	2.50	PASS
				0.00	-29.1252	-33.8173	-29.1967	-0.0170	-0.0195	-0.0166	2.50	PASS
				10.00	-29.9835	-41.3418	-35.0332	-0.0175	-0.0239	-0.0200	2.50	PASS
				20.00	-32.6872	-39.6681	-29.6259	-0.0191	-0.0229	-0.0169	2.50	PASS

				30.00	-33.8030	-41.3847	-28.8677	-0.0198	-0.0239	-0.0165	2.50	PASS
				40.00	-30.2267	-38.5237	-29.2540	-0.0177	-0.0222	-0.0167	2.50	PASS
				50.00	-29.4542	-39.3820	-28.6245	-0.0172	-0.0227	-0.0163	2.50	PASS

Test Band: 4 _ 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	-26.4216	-33.4883	-33.7601	-0.0154	-0.0193	-0.0193	2.50	PASS
				NV	-29.4542	-35.6054	-35.1477	-0.0172	-0.0206	-0.0200	2.50	PASS
				HV	-30.9420	-22.0871	-19.6695	-0.0181	-0.0127	-0.0112	2.50	PASS
16QAM	15	0	NT	LV	-23.6177	-17.6096	-30.5271	-0.0138	-0.0102	-0.0174	2.50	PASS
				NV	-23.0026	-16.1648	-32.2866	-0.0134	-0.0093	-0.0184	2.50	PASS
				HV	-30.7417	-22.1443	-33.4597	-0.0180	-0.0128	-0.0191	2.50	PASS

Test Band: 4 _ 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	-32.8588	-27.2226	-21.1716	-0.0192	-0.0157	-0.0121	2.50	PASS
				-20.00	-31.7001	-19.9986	-21.3718	-0.0185	-0.0115	-0.0122	2.50	PASS
				-10.00	-30.3268	-24.1041	-25.8350	-0.0177	-0.0139	-0.0147	2.50	PASS
				0.00	-35.6340	-29.6688	-21.4577	-0.0208	-0.0171	-0.0122	2.50	PASS
				10.00	-34.8902	-32.6443	-24.9481	-0.0204	-0.0188	-0.0142	2.50	PASS
				20.00	-35.5768	-36.7498	-20.8569	-0.0208	-0.0212	-0.0119	2.50	PASS
				30.00	-41.8997	-34.4753	-15.9788	-0.0245	-0.0199	-0.0091	2.50	PASS
				40.00	-43.3445	-35.0618	-11.0722	-0.0253	-0.0202	-0.0063	2.50	PASS
				50.00	-34.8043	-34.4896	-16.6082	-0.0203	-0.0199	-0.0095	2.50	PASS
16QAM	15	0	NV	-30.00	-29.5687	-26.3357	-19.7697	-0.0173	-0.0152	-0.0113	2.50	PASS
				-20.00	-40.4692	-30.9563	-16.3794	-0.0236	-0.0179	-0.0093	2.50	PASS
				-10.00	-29.7403	-30.9277	-20.0272	-0.0174	-0.0179	-0.0114	2.50	PASS
				0.00	-25.1913	-34.6327	-21.3146	-0.0147	-0.0200	-0.0122	2.50	PASS
				10.00	-16.1934	-36.4065	-23.2887	-0.0095	-0.0210	-0.0133	2.50	PASS
				20.00	-18.3392	-36.7784	-25.5060	-0.0107	-0.0212	-0.0145	2.50	PASS
				30.00	-18.6682	-38.4808	-25.0769	-0.0109	-0.0222	-0.0143	2.50	PASS
				40.00	-21.4291	-39.0100	-24.1756	-0.0125	-0.0225	-0.0138	2.50	PASS
				50.00	-20.3133	-40.8697	-23.1028	-0.0119	-0.0236	-0.0132	2.50	PASS

Test Band: 4 _ 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	-22.5735	-28.4386	-22.4876	-0.0132	-0.0164	-0.0128	2.50	PASS
				NV	-20.0558	-29.2254	-21.2574	-0.0117	-0.0169	-0.0121	2.50	PASS
				HV	-21.8582	-20.2560	-25.3487	-0.0128	-0.0117	-0.0145	2.50	PASS
16QAM	25	0	NT	LV	-20.7567	-38.5523	-22.3446	-0.0121	-0.0223	-0.0128	2.50	PASS
				NV	-17.7813	-21.6007	-25.7921	-0.0104	-0.0125	-0.0147	2.50	PASS
				HV	-21.2860	-25.9352	-23.9038	-0.0124	-0.0150	-0.0136	2.50	PASS

Test Band: 4 _ 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	-20.0987	-21.6579	-24.1613	-0.0117	-0.0125	-0.0138	2.50	PASS
				-20.00	-16.6368	-30.0121	-29.4685	-0.0097	-0.0173	-0.0168	2.50	PASS
				-10.00	-20.6566	-30.3125	-28.6961	-0.0121	-0.0175	-0.0164	2.50	PASS
				0.00	-19.8984	-26.3643	-28.6531	-0.0116	-0.0152	-0.0163	2.50	PASS
				10.00	-15.9502	-30.7274	-26.2070	-0.0093	-0.0177	-0.0150	2.50	PASS

				20.00	-24.2758	-32.4726	-32.2580	-0.0142	-0.0187	-0.0184	2.50	PASS
				30.00	-19.4693	-31.5857	-30.4270	-0.0114	-0.0182	-0.0174	2.50	PASS
				40.00	-25.3773	-16.5510	-28.8105	-0.0148	-0.0096	-0.0164	2.50	PASS
				50.00	-25.2914	-27.1940	-29.0108	-0.0148	-0.0157	-0.0166	2.50	PASS
16QAM	25	0	NV	-30.00	-24.7765	-18.1532	-26.2356	-0.0145	-0.0105	-0.0150	2.50	PASS
				-20.00	-25.9066	-28.2526	-20.8855	-0.0151	-0.0163	-0.0119	2.50	PASS
				-10.00	-21.5864	-22.5449	-22.7880	-0.0126	-0.0130	-0.0130	2.50	PASS
				0.00	-25.8636	-29.8691	-19.0830	-0.0151	-0.0172	-0.0109	2.50	PASS
				10.00	-35.9201	-28.2526	-21.5292	-0.0210	-0.0163	-0.0123	2.50	PASS
				20.00	-31.3568	-28.9965	-20.6280	-0.0183	-0.0167	-0.0118	2.50	PASS
				30.00	-31.1565	-30.7417	-15.3208	-0.0182	-0.0177	-0.0087	2.50	PASS
				40.00	-31.1279	-29.6402	-19.8269	-0.0182	-0.0171	-0.0113	2.50	PASS
				50.00	-32.5298	-30.4127	-19.0973	-0.0190	-0.0176	-0.0109	2.50	PASS

Test Band: 4 _ 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	-5.7936	-5.7650	-22.8596	-0.0034	-0.0033	-0.0131	2.50	PASS
				NV	-6.8951	-7.4530	-23.6607	-0.0040	-0.0043	-0.0135	2.50	PASS
				HV	-15.6498	-16.0217	-23.1314	-0.0091	-0.0092	-0.0132	2.50	PASS
16QAM	50	0	NT	LV	-31.5857	-12.6171	-17.0946	-0.0184	-0.0073	-0.0098	2.50	PASS
				NV	-19.6552	-19.0401	-20.0558	-0.0115	-0.0110	-0.0115	2.50	PASS
				HV	-23.5748	-23.1600	-17.0803	-0.0137	-0.0134	-0.0098	2.50	PASS

Test Band: 4 _ 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	-17.7383	-21.2717	-28.4386	-0.0103	-0.0123	-0.0163	2.50	PASS
				-20.00	-15.6927	-28.7104	-27.5374	-0.0092	-0.0166	-0.0157	2.50	PASS
				-10.00	-15.2063	-33.0162	-28.4958	-0.0089	-0.0191	-0.0163	2.50	PASS
				0.00	-20.5135	-13.2894	-28.1239	-0.0120	-0.0077	-0.0161	2.50	PASS
				10.00	-23.2744	-15.2922	-13.0463	-0.0136	-0.0088	-0.0075	2.50	PASS
				20.00	-24.3902	-20.9856	-7.2241	-0.0142	-0.0121	-0.0041	2.50	PASS
				30.00	-10.6859	-26.3357	-14.5197	-0.0062	-0.0152	-0.0083	2.50	PASS
				40.00	-13.6614	-27.6375	-10.6859	-0.0080	-0.0160	-0.0061	2.50	PASS
				50.00	-11.5299	-27.0939	-9.9278	-0.0067	-0.0156	-0.0057	2.50	PASS
16QAM	50	0	NV	-30.00	-26.2642	-30.3984	-18.1675	-0.0153	-0.0175	-0.0104	2.50	PASS
				-20.00	-23.1600	-28.1668	-14.7486	-0.0135	-0.0163	-0.0084	2.50	PASS
				-10.00	-20.4706	-21.4434	-17.3092	-0.0119	-0.0124	-0.0099	2.50	PASS
				0.00	-26.7220	-19.5265	-14.5054	-0.0156	-0.0113	-0.0083	2.50	PASS
				10.00	-31.2281	-18.7683	-21.1716	-0.0182	-0.0108	-0.0121	2.50	PASS
				20.00	-19.2690	-24.9195	-20.9427	-0.0112	-0.0144	-0.0120	2.50	PASS
				30.00	-17.8528	-21.6150	-17.3235	-0.0104	-0.0125	-0.0099	2.50	PASS
				40.00	-19.7554	-20.7996	-16.5939	-0.0115	-0.0120	-0.0095	2.50	PASS
				50.00	-13.2608	-21.7295	-22.3303	-0.0077	-0.0125	-0.0128	2.50	PASS

Test Band: 4 _ 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	1.0443	-9.4414	-10.0851	0.0006	-0.0054	-0.0058	2.50	PASS
				NV	4.0054	-16.1791	-6.8378	0.0023	-0.0093	-0.0039	2.50	PASS
				HV	-2.1172	-16.9516	-4.7207	-0.0012	-0.0098	-0.0027	2.50	PASS
16QAM	75	0	NT	LV	-19.4836	-16.0503	-3.6335	-0.0113	-0.0093	-0.0021	2.50	PASS
				NV	-25.4917	-12.1450	-6.6090	-0.0148	-0.0070	-0.0038	2.50	PASS
				HV	-15.8358	-11.6158	-6.7377	-0.0092	-0.0067	-0.0039	2.50	PASS

Test Band: 4 _ 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	-5.1785	-23.6320	-13.0892	-0.0030	-0.0136	-0.0075	2.50	PASS
				-20.00	-1.4305	-9.4557	-11.2724	-0.0008	-0.0055	-0.0065	2.50	PASS
				-10.00	0.6294	-13.3753	-12.6028	0.0004	-0.0077	-0.0072	2.50	PASS
				0.00	4.6635	-17.5238	-16.7799	0.0027	-0.0101	-0.0096	2.50	PASS
				10.00	-0.6294	-24.2758	-16.9516	-0.0004	-0.0140	-0.0097	2.50	PASS
				20.00	-5.8937	-28.7533	-15.2206	-0.0034	-0.0166	-0.0087	2.50	PASS
				30.00	-9.5987	-27.0796	-20.2131	-0.0056	-0.0156	-0.0116	2.50	PASS
				40.00	-8.7976	-29.8119	-21.1286	-0.0051	-0.0172	-0.0121	2.50	PASS
				50.00	-2.8610	-13.0606	-23.8466	-0.0017	-0.0075	-0.0136	2.50	PASS
16QAM	75	0	NV	-30.00	-8.2397	-23.2744	-6.2370	-0.0048	-0.0134	-0.0036	2.50	PASS
				-20.00	-4.2772	-19.9270	-13.4039	-0.0025	-0.0115	-0.0077	2.50	PASS
				-10.00	-8.4543	-11.4727	-8.1396	-0.0049	-0.0066	-0.0047	2.50	PASS
				0.00	-10.6859	-9.5558	-6.1226	-0.0062	-0.0055	-0.0035	2.50	PASS
				10.00	-6.1083	-14.4196	-1.6451	-0.0036	-0.0083	-0.0009	2.50	PASS
				20.00	-3.6049	-17.9672	-1.7738	-0.0021	-0.0104	-0.0010	2.50	PASS
				30.00	-7.8106	-14.9202	-4.7922	-0.0045	-0.0086	-0.0027	2.50	PASS
				40.00	-2.7323	-15.9502	-5.7220	-0.0016	-0.0092	-0.0033	2.50	PASS
				50.00	-4.2629	-19.3119	-9.1410	-0.0025	-0.0111	-0.0052	2.50	PASS

Test Band: 4 _ 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	-21.8868	-17.8242	-4.8780	-0.0127	-0.0103	-0.0028	2.50	PASS
				NV	-15.6927	-25.0483	-5.8222	-0.0091	-0.0145	-0.0033	2.50	PASS
				HV	-14.1621	-22.6593	-5.3787	-0.0082	-0.0131	-0.0031	2.50	PASS
16QAM	100	0	NT	LV	-16.8657	-21.5721	-15.6069	-0.0098	-0.0125	-0.0089	2.50	PASS
				NV	-15.0919	-23.1600	-11.3726	-0.0088	-0.0134	-0.0065	2.50	PASS
				HV	-18.4393	-25.3487	-9.7561	-0.0107	-0.0146	-0.0056	2.50	PASS

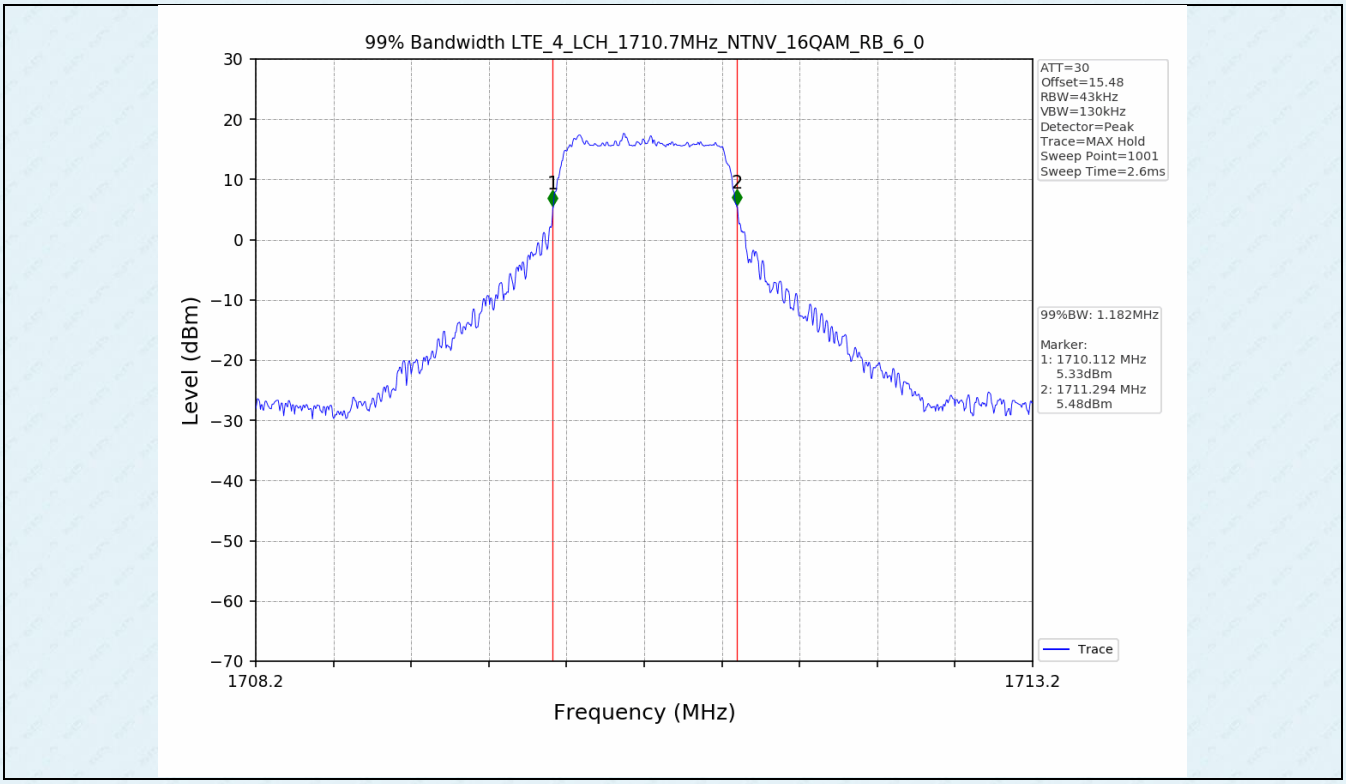
Test Band: 4 _ 20MHz Bandwidth (Frequency Error VS. Temperature)												
Test Mode	RB Allocation		Test Volt.	Test Temp.	Freq. Error (Hz)			Freq. vs. rated (ppm)			Limit (ppm)	Verdict
	Size	Offset			LCH	MCH	HCH	LCH	MCH	HCH		
QPSK	100	0	NV	-30.00	-18.6825	-29.0966	-9.9421	-0.0109	-0.0168	-0.0057	2.50	PASS
				-20.00	-17.3235	-18.5823	-10.6430	-0.0101	-0.0107	-0.0061	2.50	PASS
				-10.00	-16.5939	-19.2404	-12.3453	-0.0096	-0.0111	-0.0071	2.50	PASS
				0.00	-16.1076	-22.8882	-15.1205	-0.0094	-0.0132	-0.0087	2.50	PASS
				10.00	-14.3480	-25.2771	-5.0926	-0.0083	-0.0146	-0.0029	2.50	PASS
				20.00	-17.8814	-27.1368	-3.1042	-0.0104	-0.0157	-0.0018	2.50	PASS
				30.00	-16.4080	-25.6062	-7.5817	-0.0095	-0.0148	-0.0043	2.50	PASS
				40.00	-16.3078	-26.4502	-7.7820	-0.0095	-0.0153	-0.0045	2.50	PASS
				50.00	-20.6709	-25.4631	-8.6832	-0.0120	-0.0147	-0.0050	2.50	PASS
16QAM	100	0	NV	-30.00	-15.7928	-7.6389	-13.9761	-0.0092	-0.0044	-0.0080	2.50	PASS
				-20.00	-13.0749	-12.2595	-8.4829	-0.0076	-0.0071	-0.0049	2.50	PASS
				-10.00	-10.4284	-15.3923	-19.1546	-0.0061	-0.0089	-0.0110	2.50	PASS
				0.00	-13.8474	-11.4441	-16.0790	-0.0081	-0.0066	-0.0092	2.50	PASS
				10.00	-11.3154	-10.4427	-19.9127	-0.0066	-0.0060	-0.0114	2.50	PASS
				20.00	-15.2063	-10.0851	-22.9025	-0.0088	-0.0058	-0.0131	2.50	PASS
				30.00	-6.5088	-12.7888	-23.4175	-0.0038	-0.0074	-0.0134	2.50	PASS
				40.00	-2.5606	-16.8371	-22.5735	-0.0015	-0.0097	-0.0129	2.50	PASS
				50.00	-8.4972	-15.3494	-23.2029	-0.0049	-0.0089	-0.0133	2.50	PASS

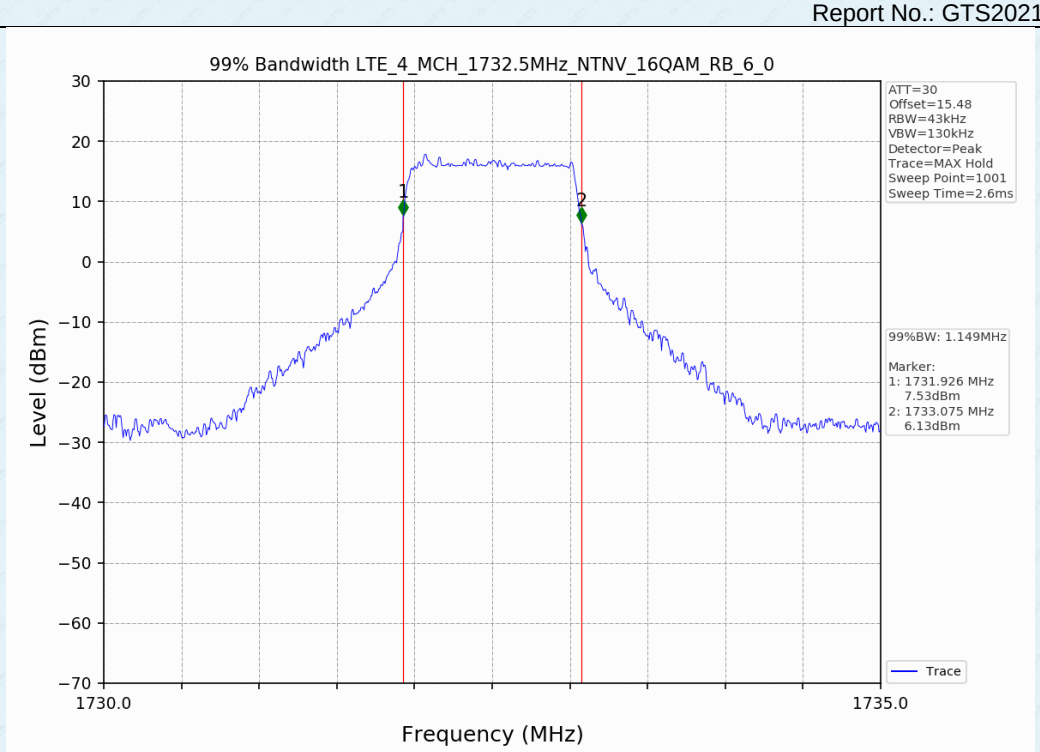
3. 99% & 26dB Bandwidth

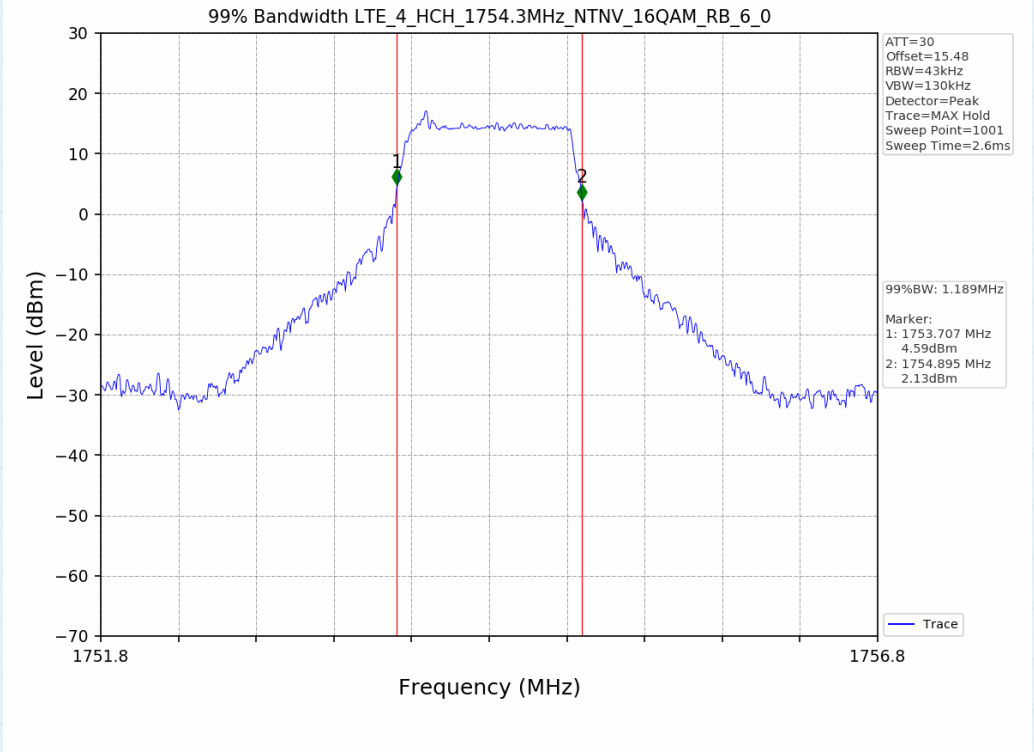
3.1 Test Result

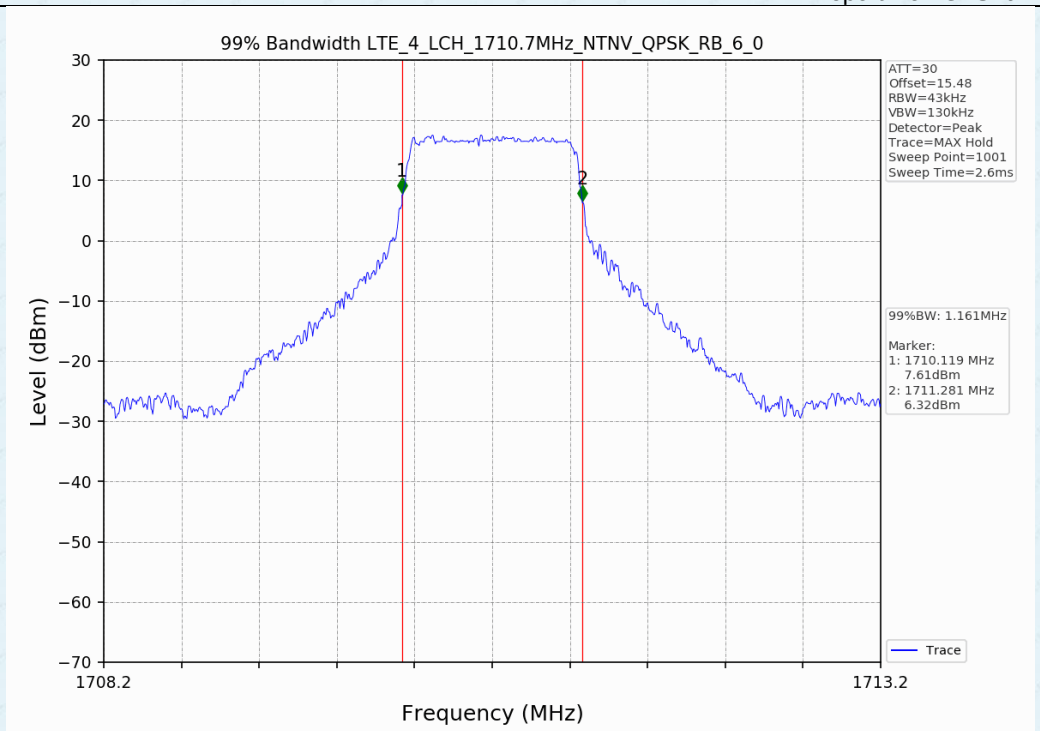
Test Band: 4 _ 1.4MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.161	1.088	1.154	N/A	PASS
16QAM	6	0	1.182	1.149	1.189	N/A	PASS

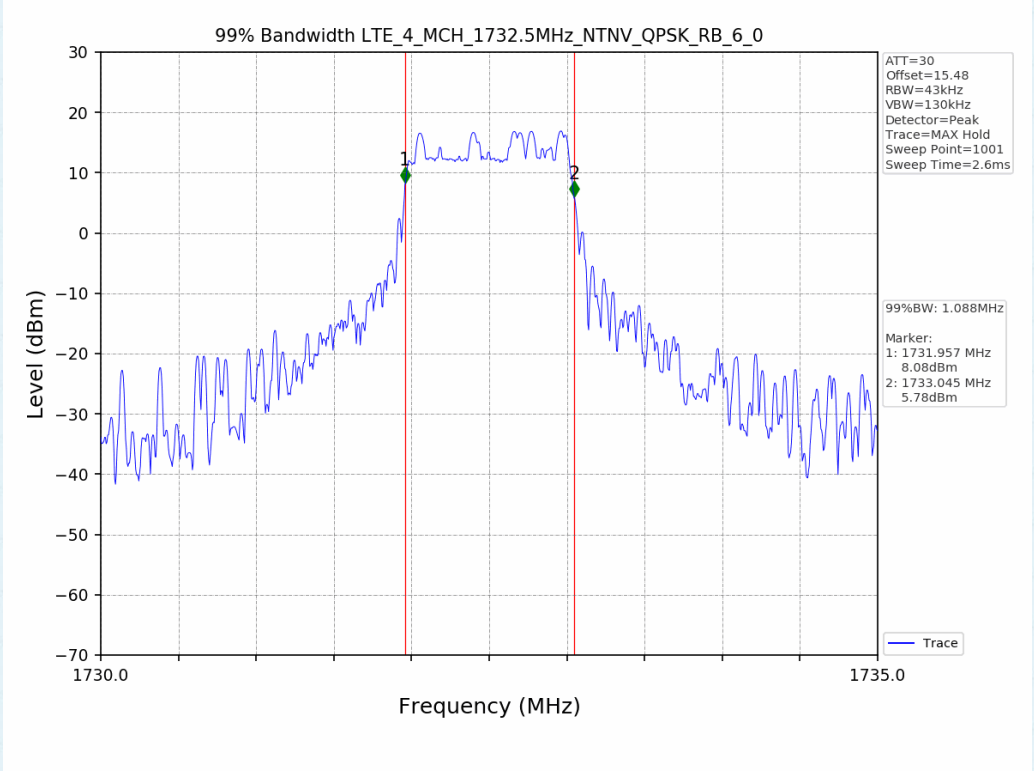
3.2 Test Graph

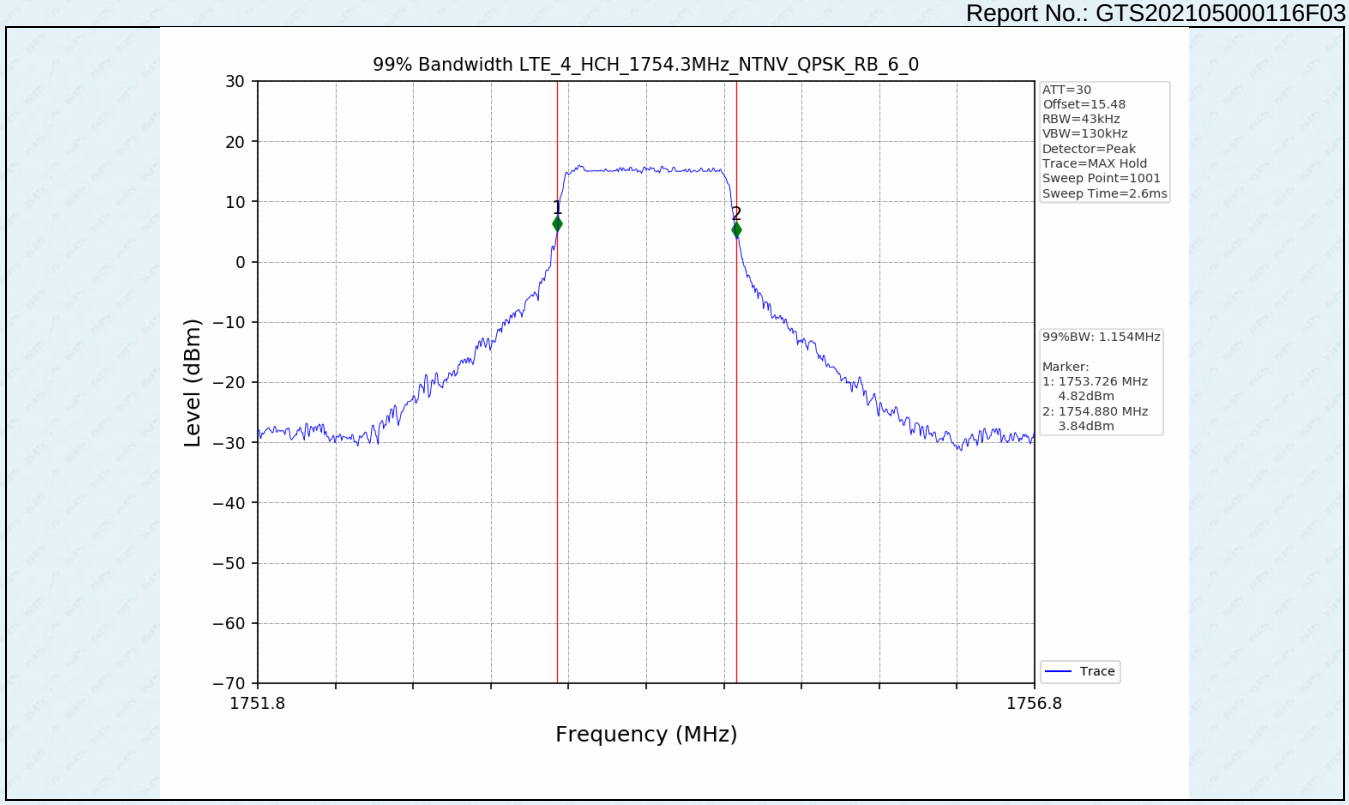



99% Bandwidth LTE_4_MCH_1732.5MHz_NTNV_16QAM_RB_6_0
ATT=30
Offset=15.48
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.149MHz
Marker:
1: 1731.926 MHz
7.53dBm
2: 1733.075 MHz
6.13dBm
Trace
Level (dBm)
Frequency (MHz)
1730.0
1735.0


99% Bandwidth LTE_4_HCH_1754.3MHz_NTNV_16QAM_RB_6_0
ATT=30
Offset=15.48
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.189MHz
Marker:
1: 1753.707 MHz
4.59dBm
2: 1754.895 MHz
2.13dBm
Trace
Level (dBm)
Frequency (MHz)
1751.8
1756.8

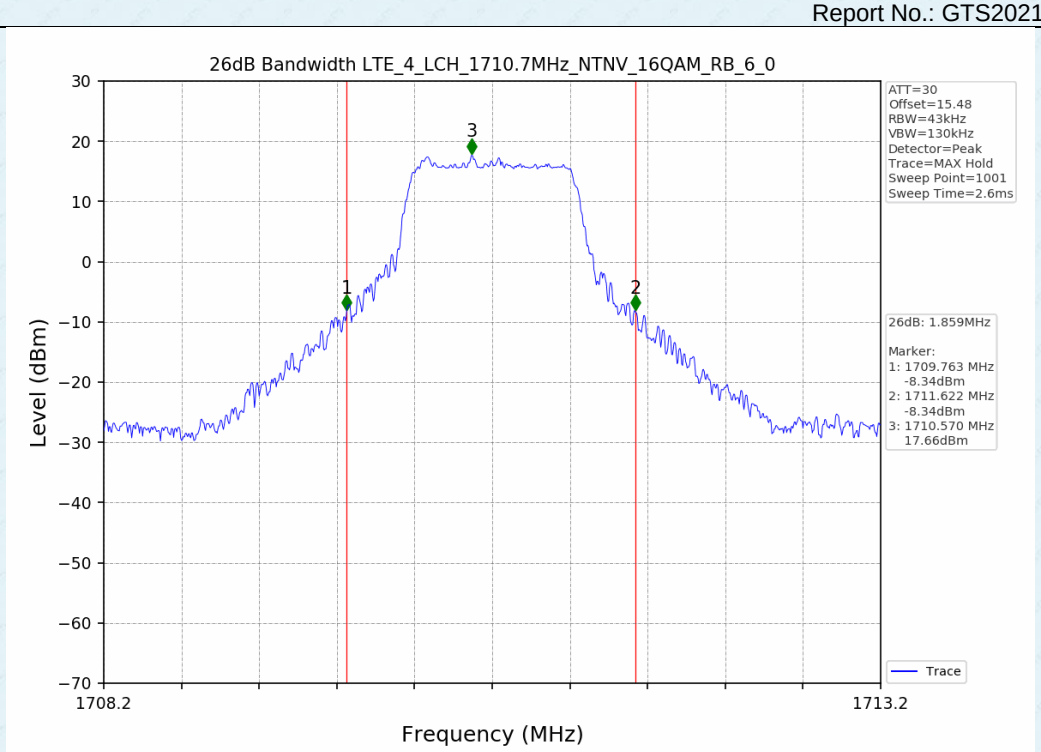

99% Bandwidth LTE_4_LCH_1710.7MHz_NTNV_QPSK_RB_6_0
ATT=30
Offset=15.48
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.161MHz
Marker:
1: 1710.119 MHz
7.61dBm
2: 1711.281 MHz
6.32dBm
Trace
Level (dBm)
Frequency (MHz)
1708.2
1713.2

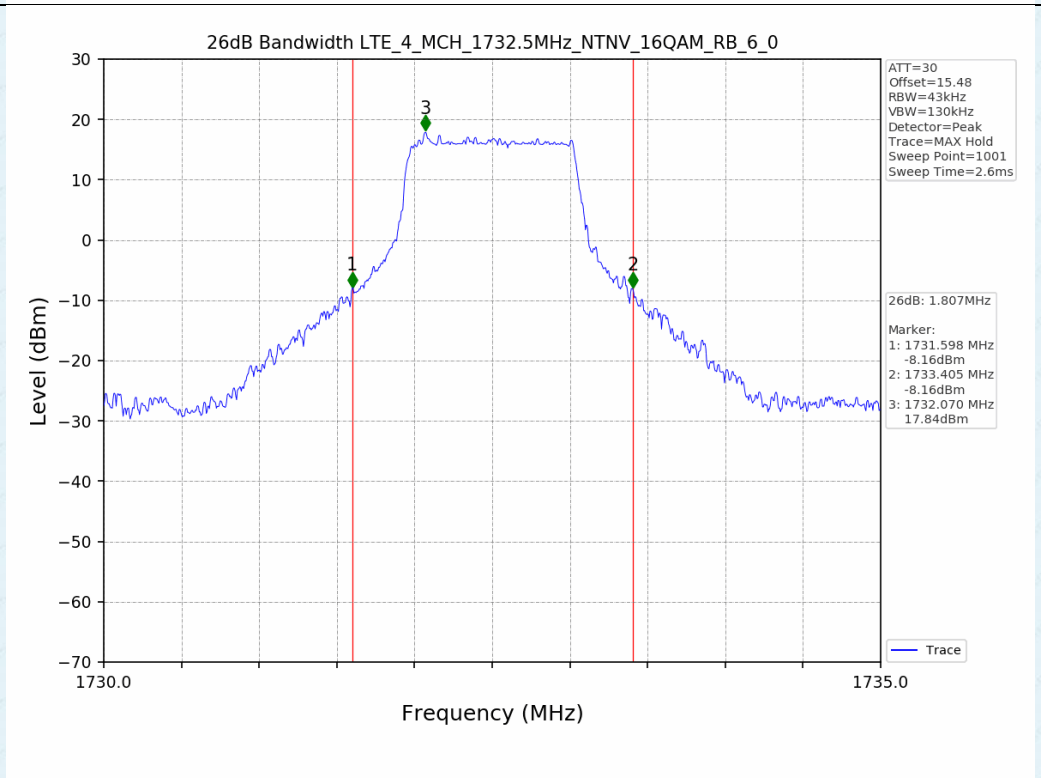

99% Bandwidth LTE_4_MCH_1732.5MHz_NTNV_QPSK_RB_6_0
ATT=30
Offset=15.48
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
99%BW: 1.088MHz
Marker:
1: 1731.957 MHz
8.08dBm
2: 1733.045 MHz
5.78dBm
Trace
Level (dBm)
Frequency (MHz)
1730.0
1735.0

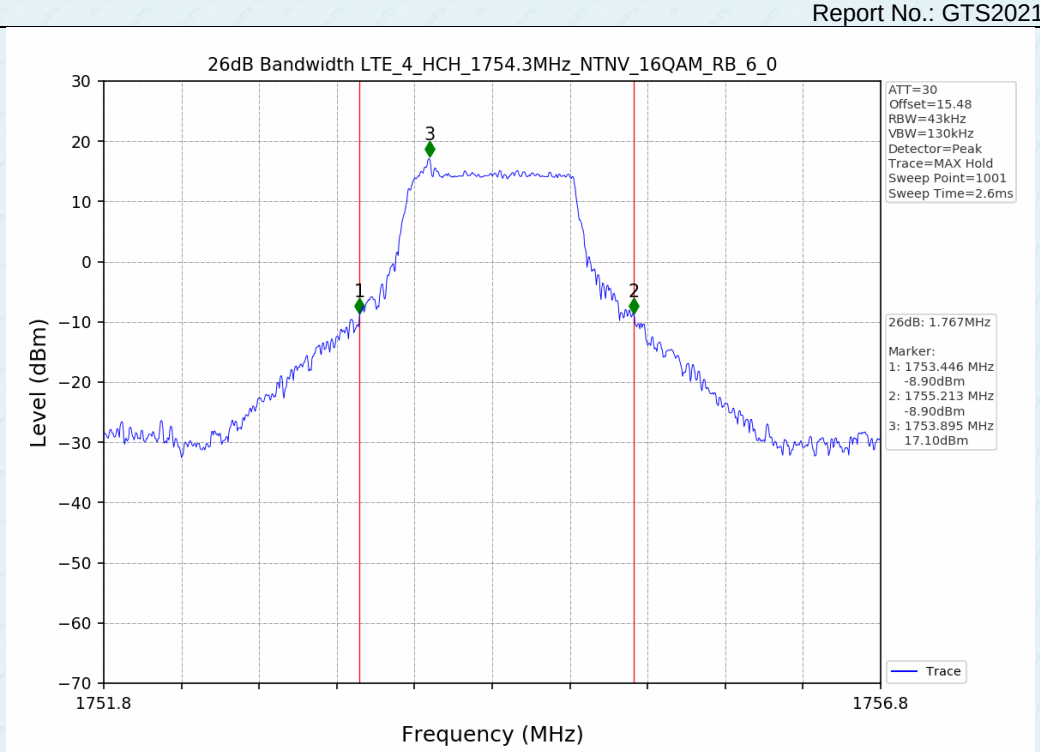


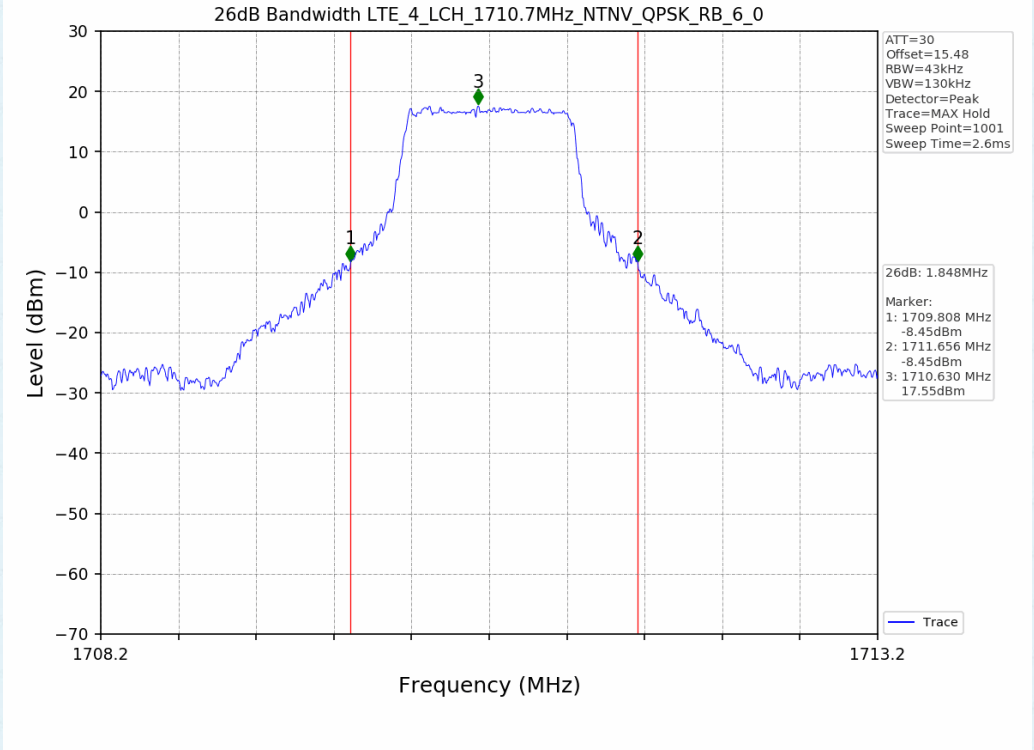
Test Band: 4 _ 1.4MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	1.848	1.473	1.810	N/A	PASS
16QAM	6	0	1.859	1.807	1.767	N/A	PASS

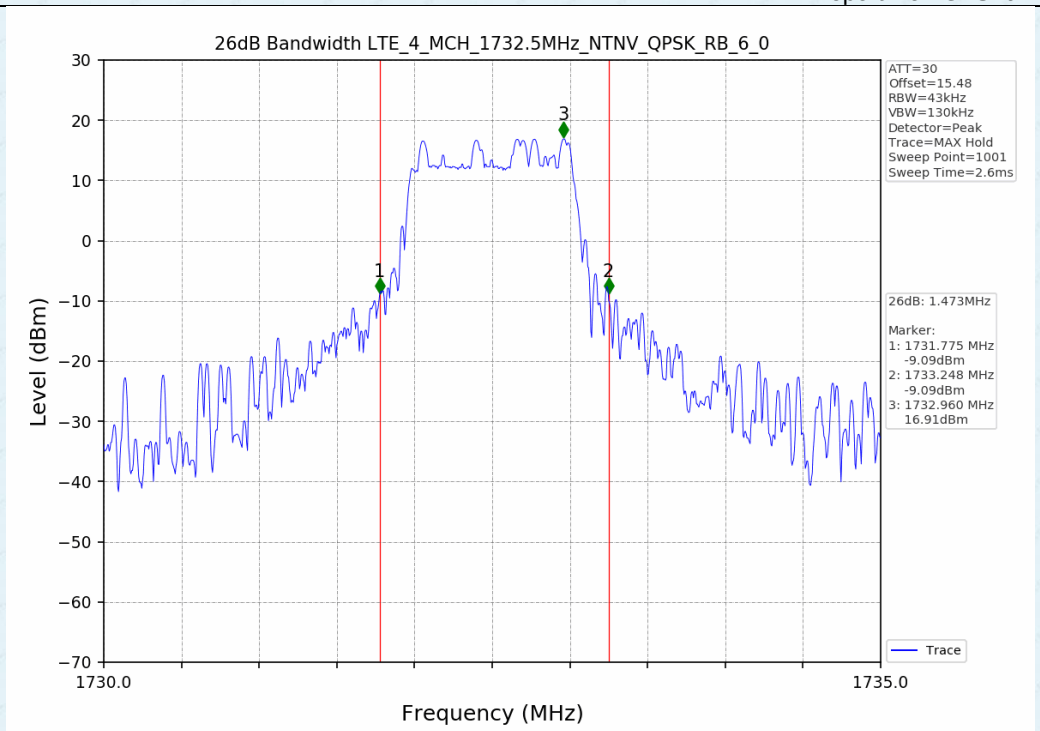
3.2 Test Graph

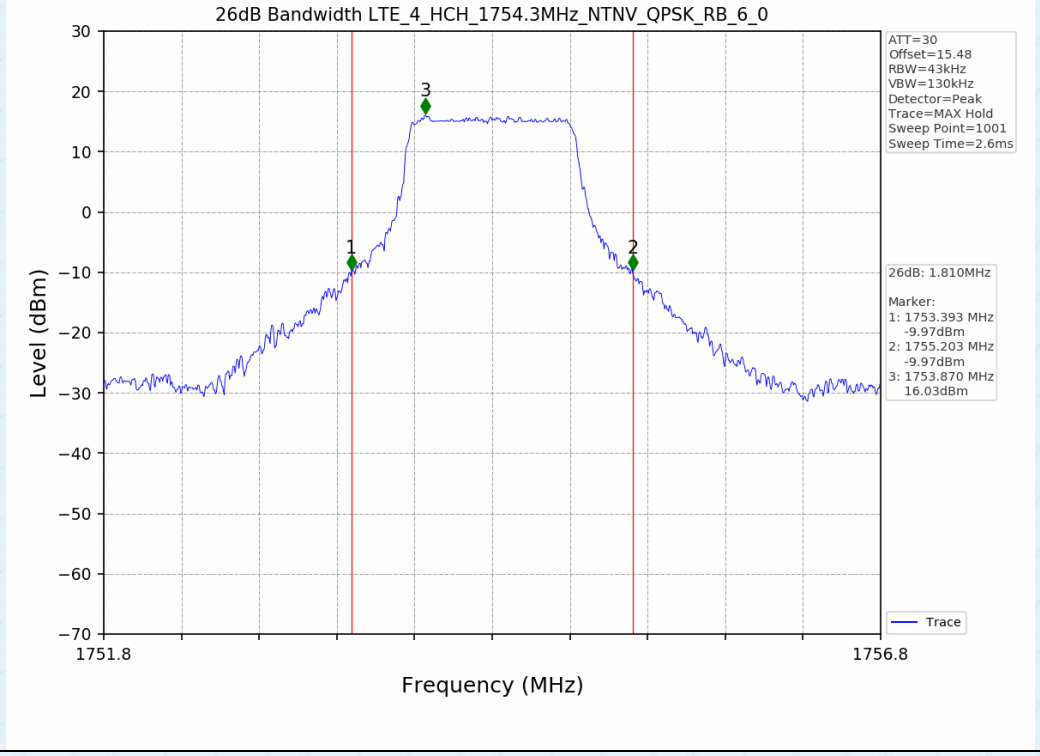

26dB Bandwidth LTE_4_LCH_1710.7MHz_NTNV_16QAM_RB_6_0
ATT=30
Offset=15.48
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.859MHz
Marker:
1: 1709.763 MHz
-8.34dBm
2: 1711.622 MHz
-8.34dBm
3: 1710.570 MHz
17.66dBm
Trace
Level (dBm)
Frequency (MHz)
1708.2
1713.2


26dB Bandwidth LTE_4_MCH_1732.5MHz_NTNV_16QAM_RB_6_0
ATT=30
Offset=15.48
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.807MHz
Marker:
1: 1731.598 MHz
-8.16dBm
2: 1733.405 MHz
-8.16dBm
3: 1732.070 MHz
17.84dBm
Trace
Level (dBm)
Frequency (MHz)
1730.0
1735.0


26dB Bandwidth LTE_4_HCH_1754.3MHz_NTNV_16QAM_RB_6_0
ATT=30
Offset=15.48
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.767MHz
Marker:
1: 1753.446 MHz
-8.90dBm
2: 1755.213 MHz
-8.90dBm
3: 1753.895 MHz
17.10dBm
Trace
Level (dBm)
Frequency (MHz)
1751.8
1756.8


26dB Bandwidth LTE_4_LCH_1710.7MHz_NTNV_QPSK_RB_6_0
ATT=30
Offset=15.48
RBW=43kHz
VBW=130kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=2.6ms
26dB: 1.848MHz
Marker:
1: 1709.808 MHz
-8.45dBm
2: 1711.656 MHz
-8.45dBm
3: 1710.630 MHz
17.55dBm
Trace
Level (dBm)
Frequency (MHz)
1708.2
1713.2

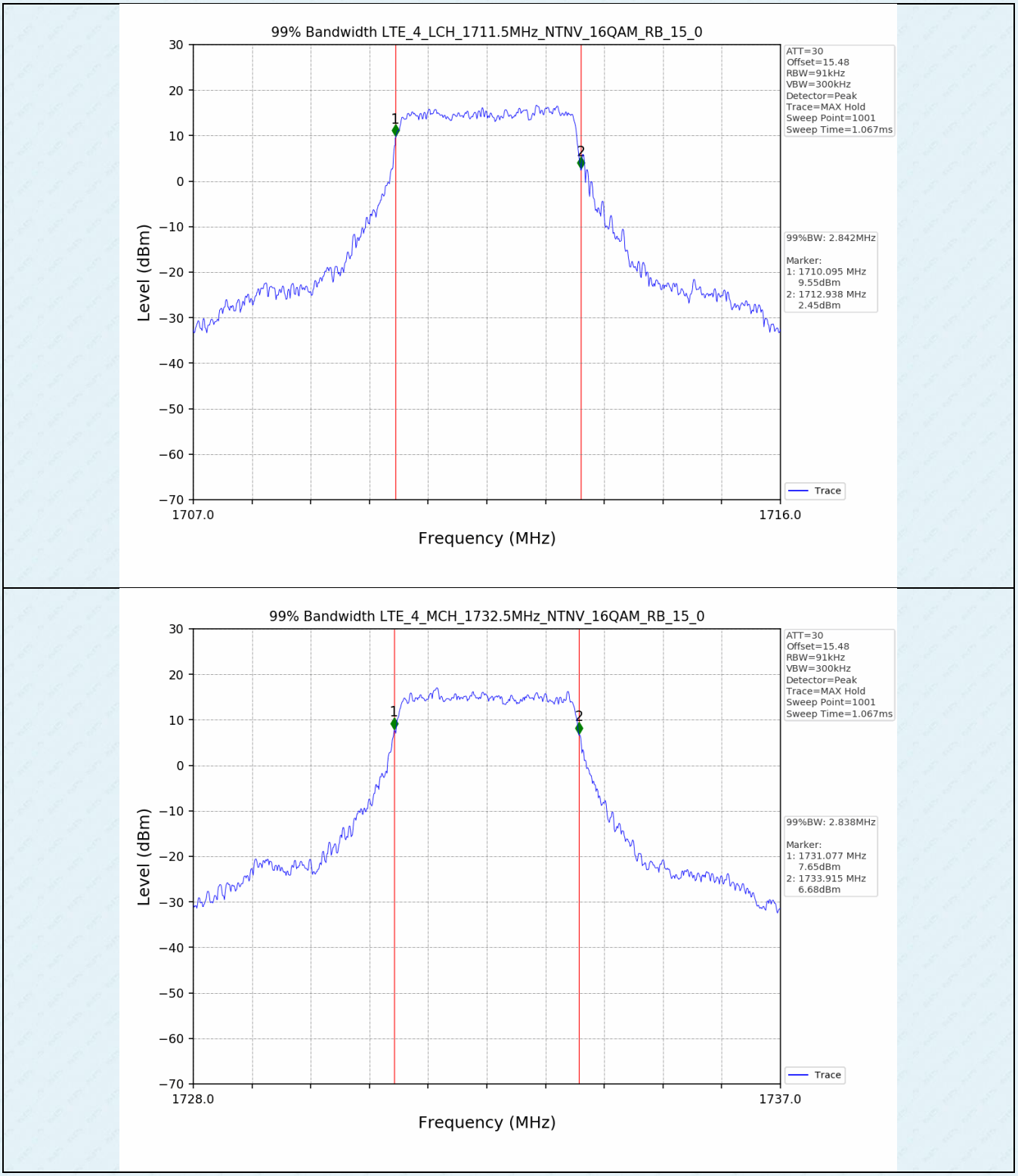


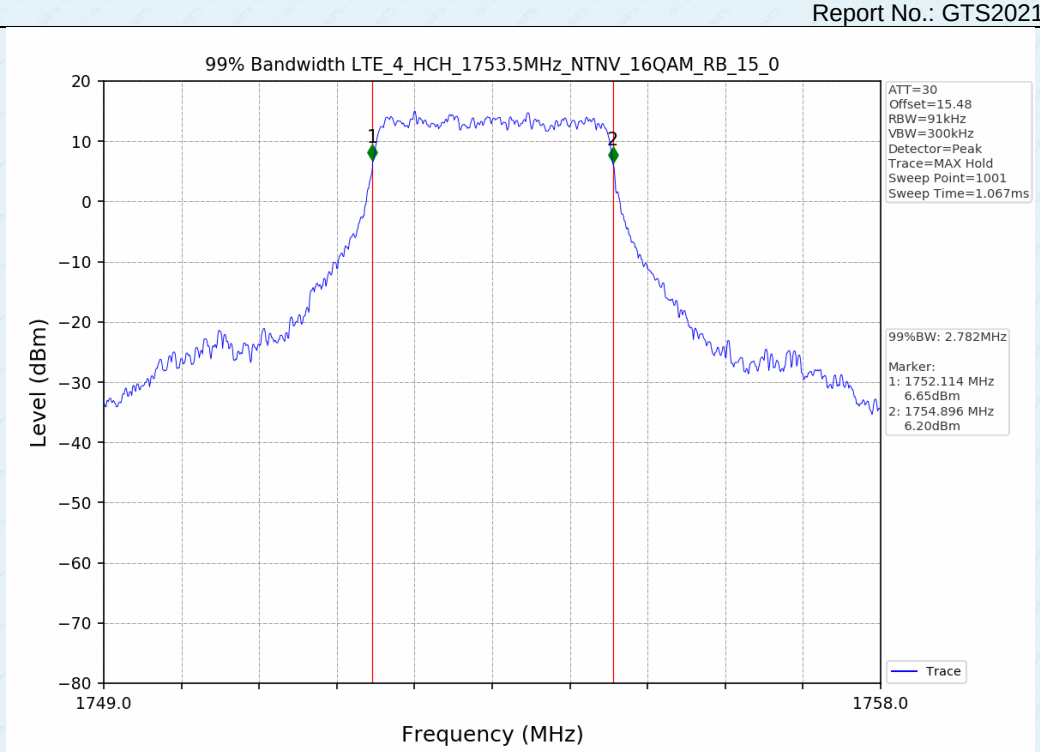


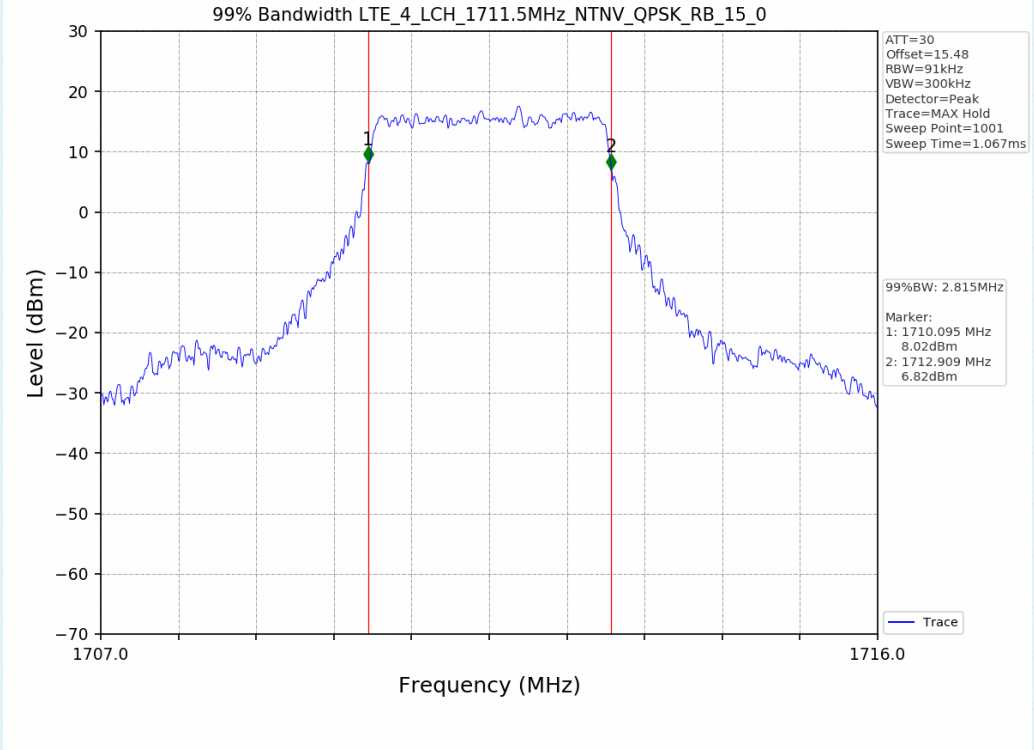
Test Band: 4 3MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		

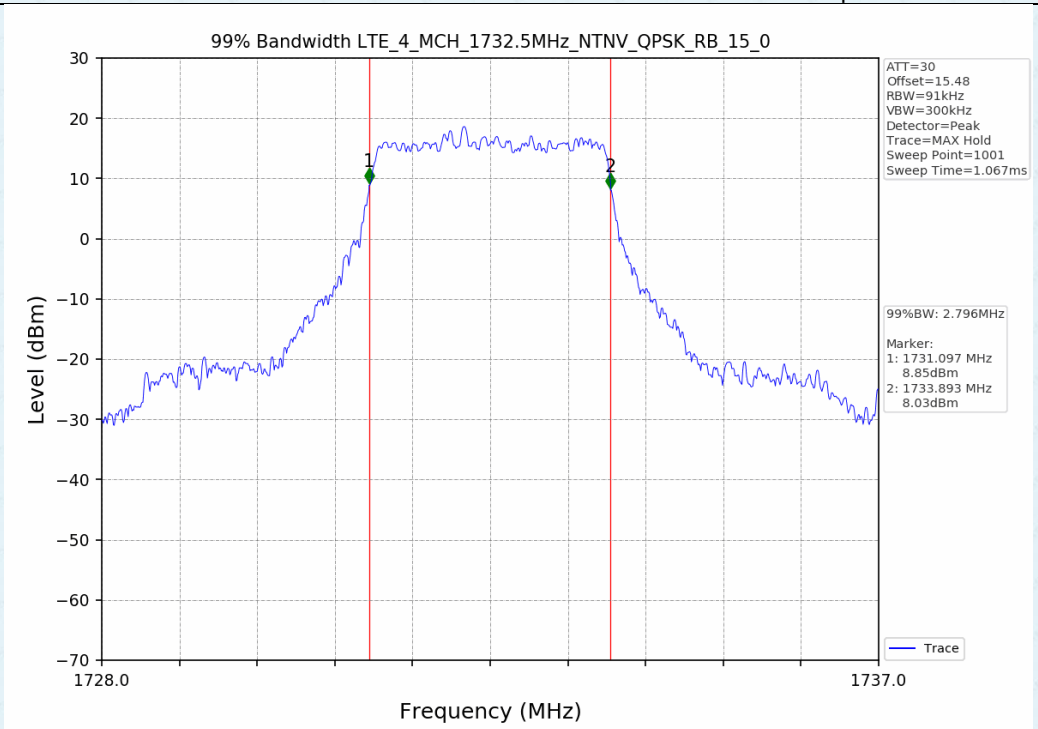
QPSK	15	0	2.815	2.796	2.784	N/A	PASS
16QAM	15	0	2.842	2.838	2.782	N/A	PASS

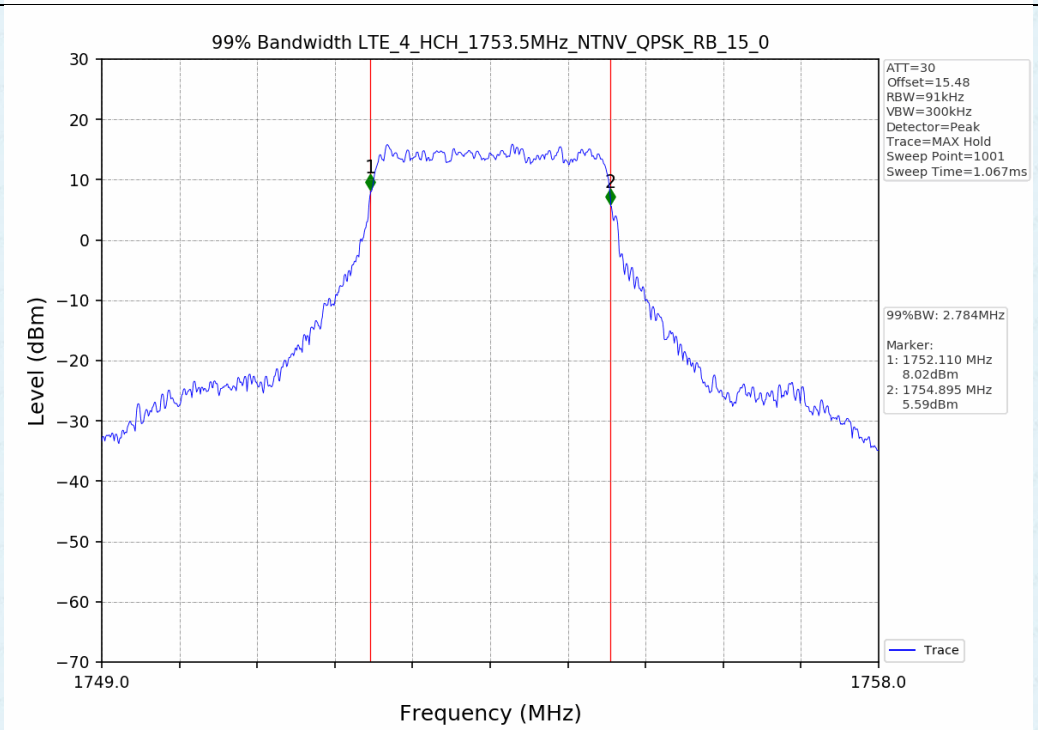
3.2 Test Graph




99% Bandwidth LTE_4_HCH_1753.5MHz_NTNV_16QAM_RB_15_0
ATT=30
Offset=15.48
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
99%BW: 2.782MHz
Marker:
1: 1752.114 MHz
6.65dBm
2: 1754.896 MHz
6.20dBm
Trace
Level (dBm)
Frequency (MHz)
1749.0
1758.0


99% Bandwidth LTE_4_LCH_1711.5MHz_NTNV_QPSK_RB_15_0
ATT=30
Offset=15.48
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
99%BW: 2.815MHz
Marker:
1: 1710.095 MHz
8.02dBm
2: 1712.909 MHz
6.82dBm
Trace
Level (dBm)
Frequency (MHz)
1707.0
1716.0

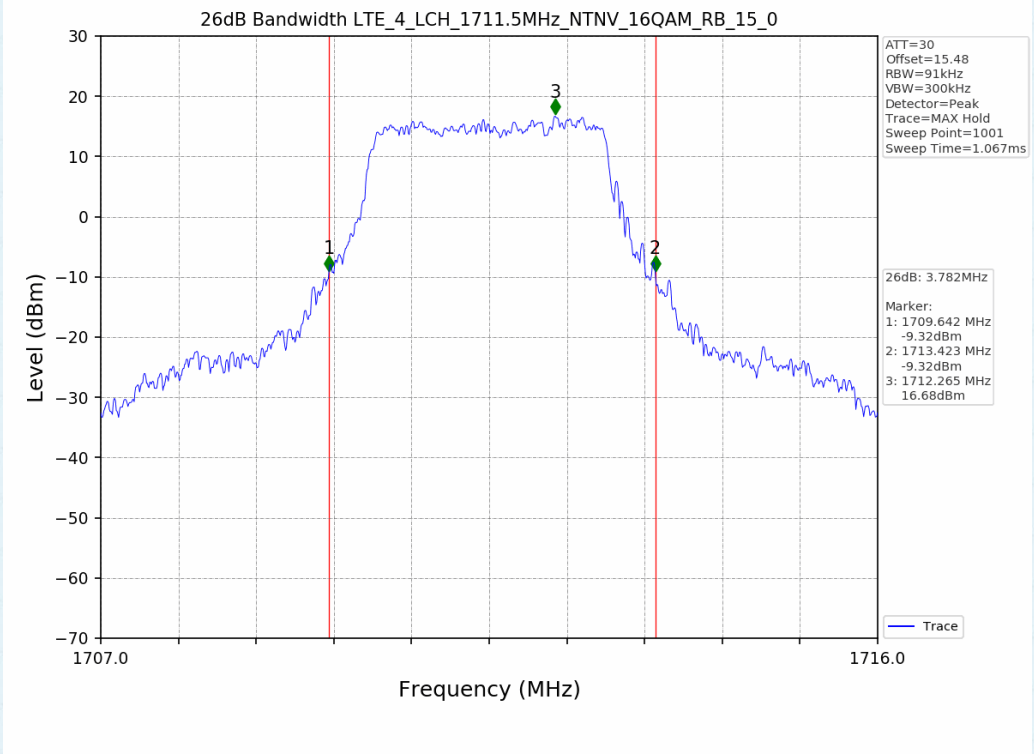


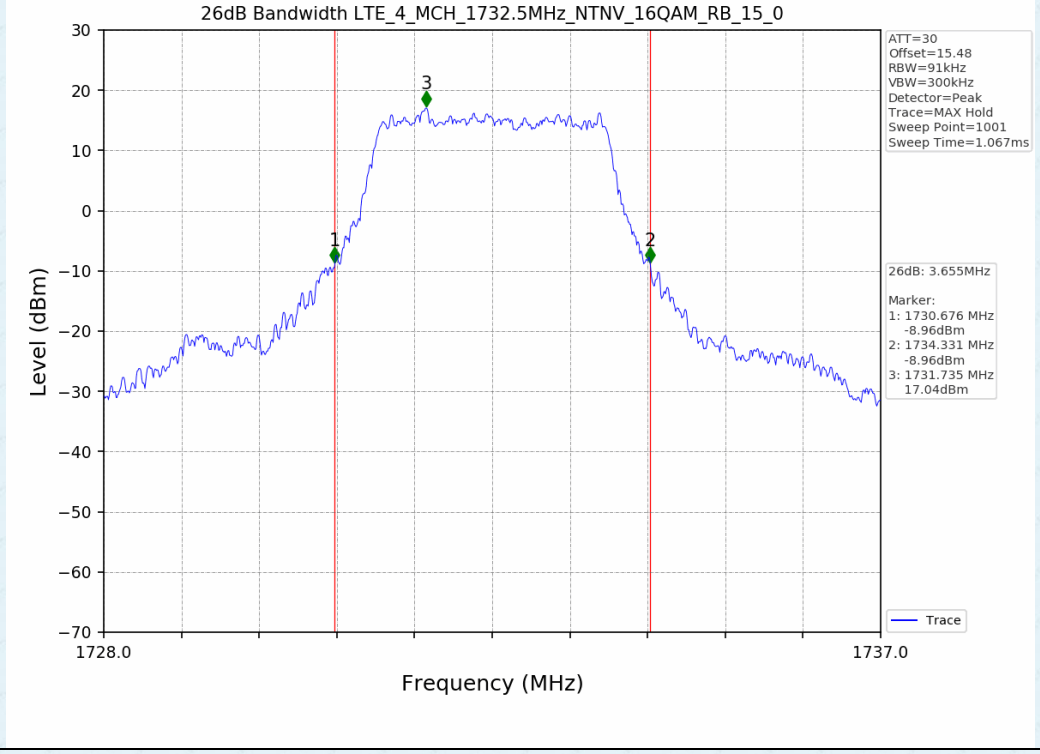


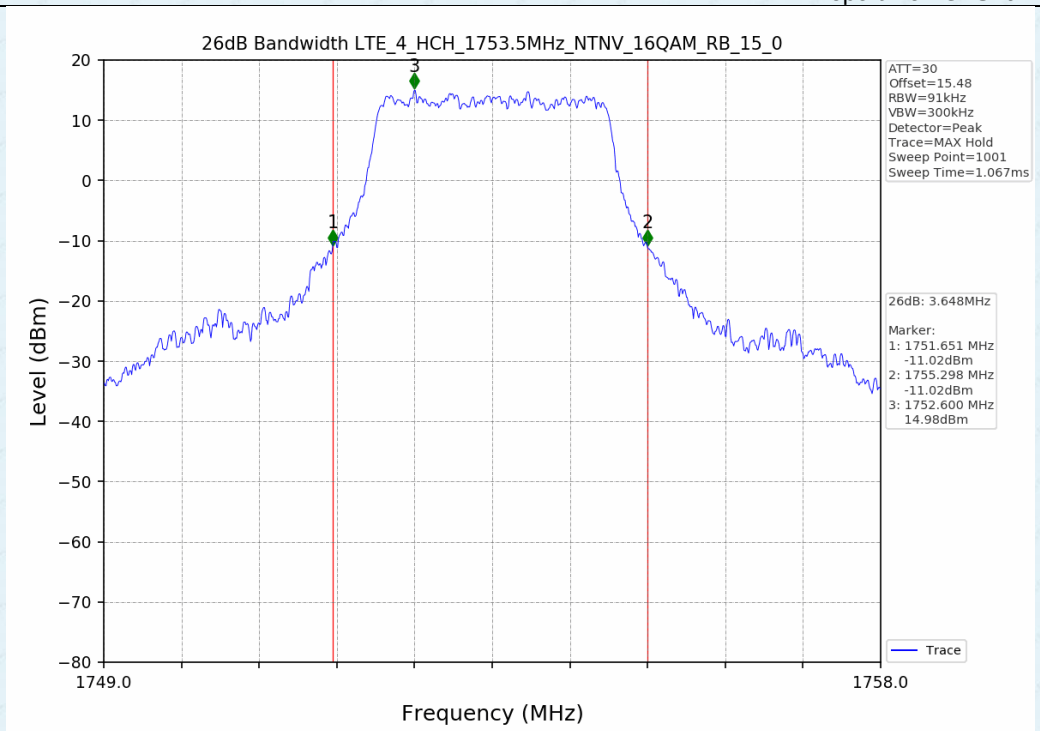
Test Band: 4 3MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		

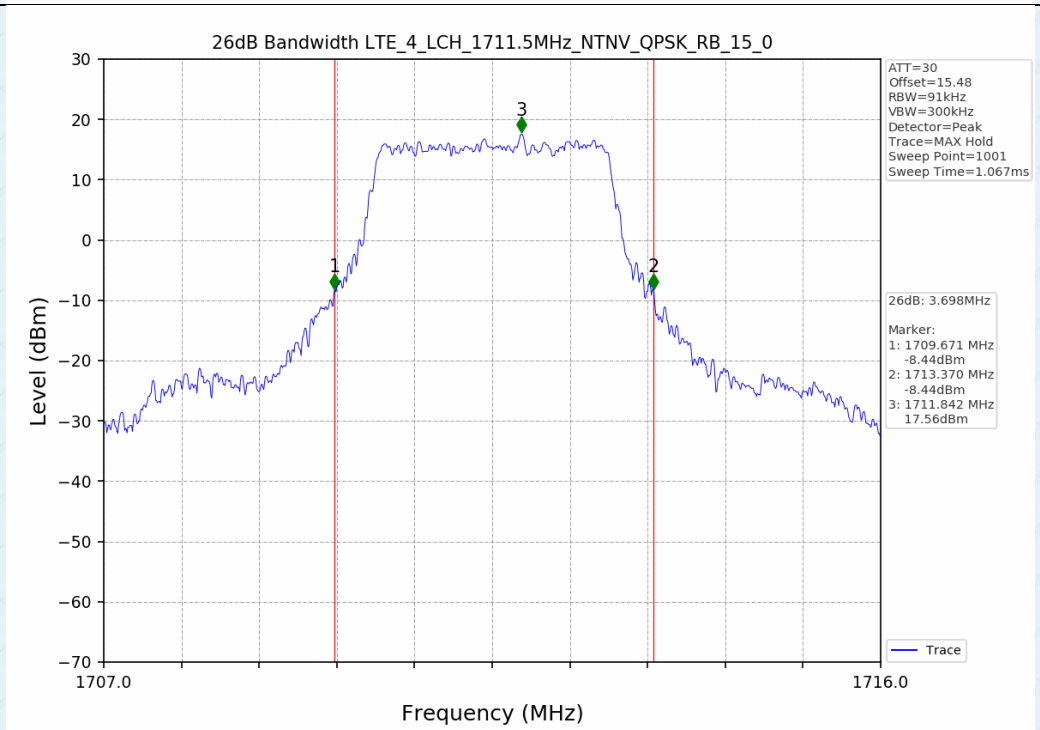
QPSK	15	0	3.698	3.479	3.698	N/A	PASS
16QAM	15	0	3.782	3.655	3.648	N/A	PASS

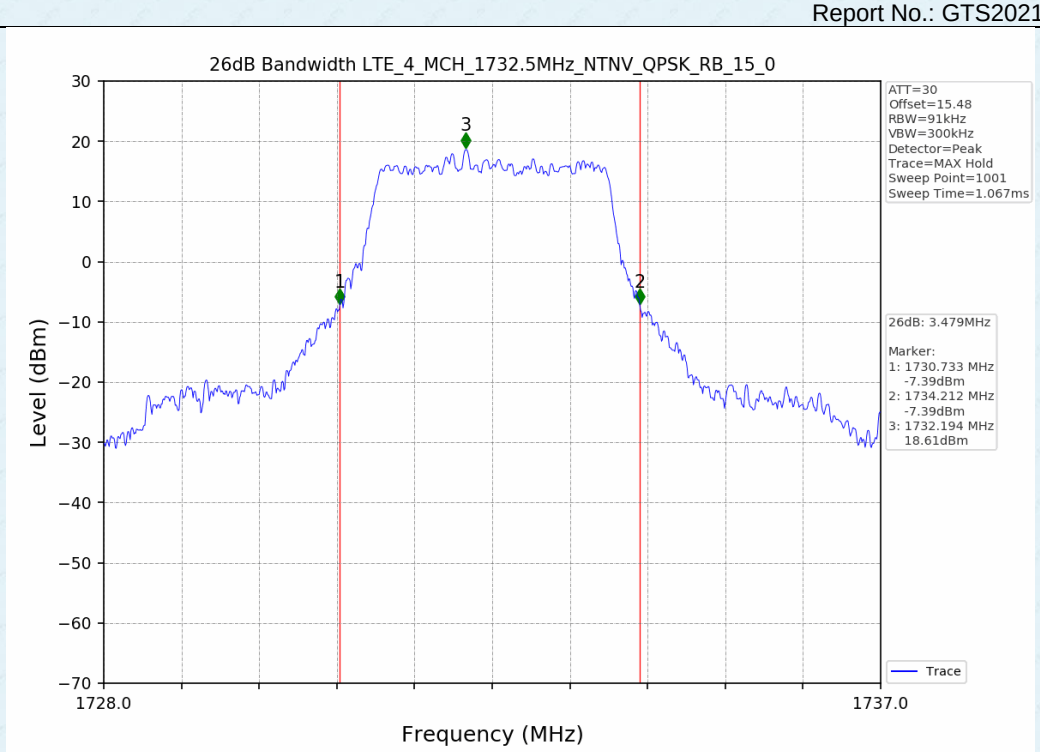
3.2 Test Graph

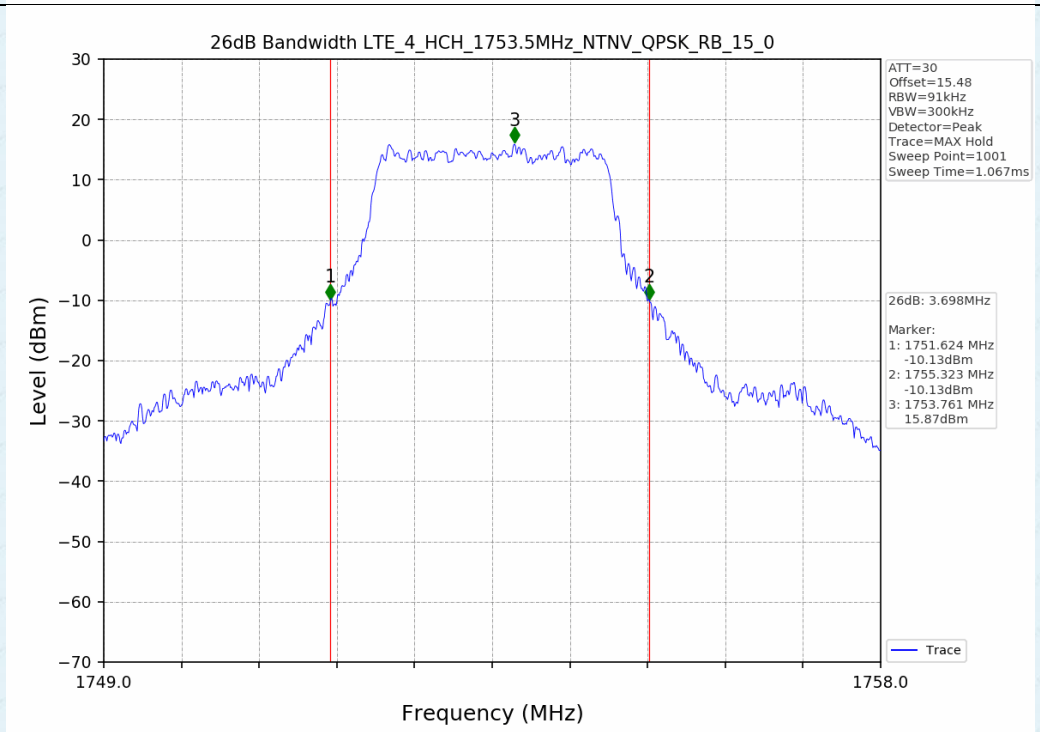





26dB Bandwidth LTE_4_HCH_1753.5MHz_NTNV_16QAM_RB_15_0
ATT=30
Offset=15.48
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
26dB: 3.648MHz
Marker:
1: 1751.651 MHz
-11.02dBm
2: 1755.298 MHz
-11.02dBm
3: 1752.600 MHz
14.98dBm
Trace
Level (dBm)
Frequency (MHz)
1749.0
1758.0


26dB Bandwidth LTE_4_LCH_1711.5MHz_NTNV_QPSK_RB_15_0
ATT=30
Offset=15.48
RBW=91kHz
VBW=300kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1.067ms
26dB: 3.698MHz
Marker:
1: 1709.671 MHz
-8.44dBm
2: 1713.370 MHz
-8.44dBm
3: 1711.842 MHz
17.56dBm
Trace
Level (dBm)
Frequency (MHz)
1707.0
1716.0

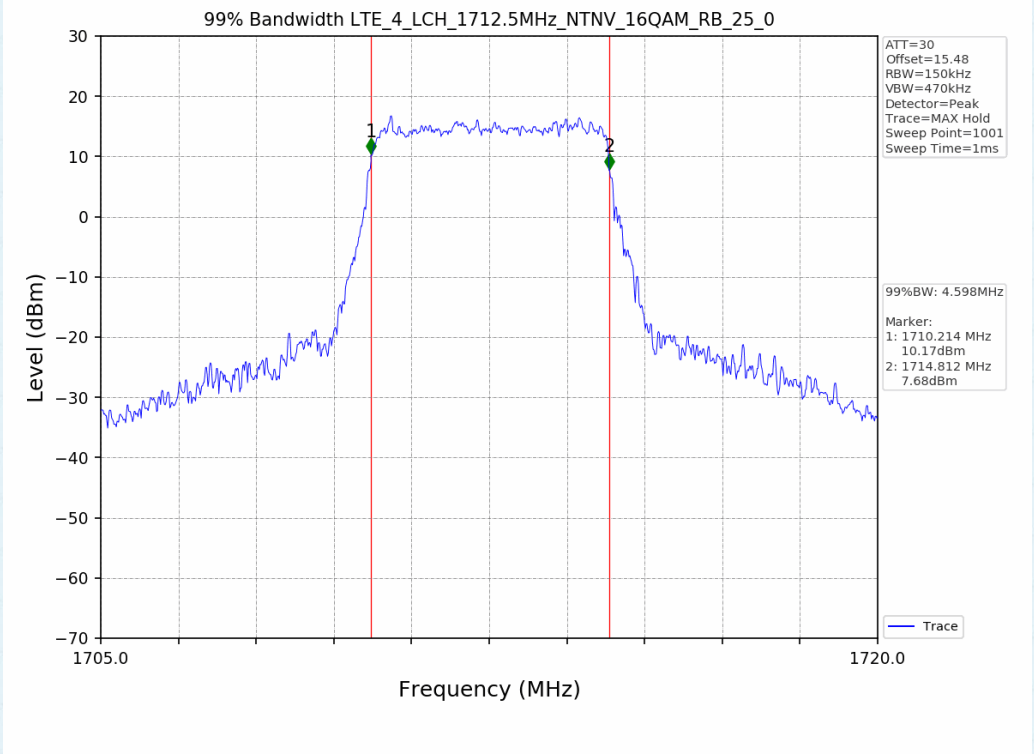


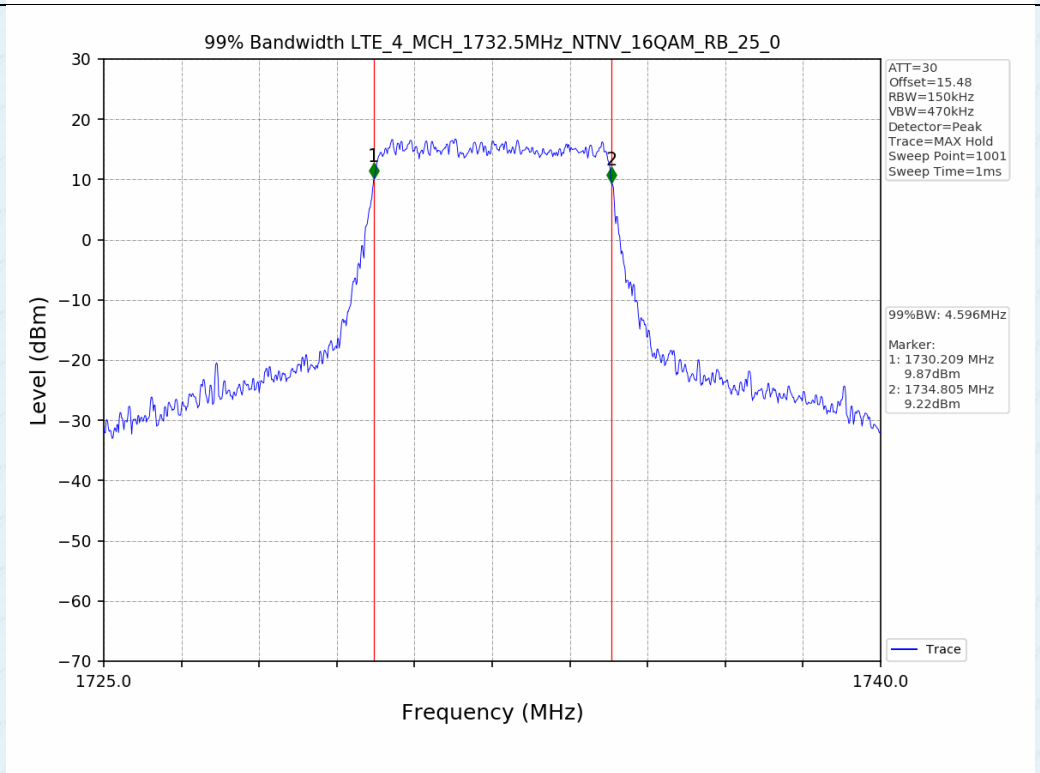


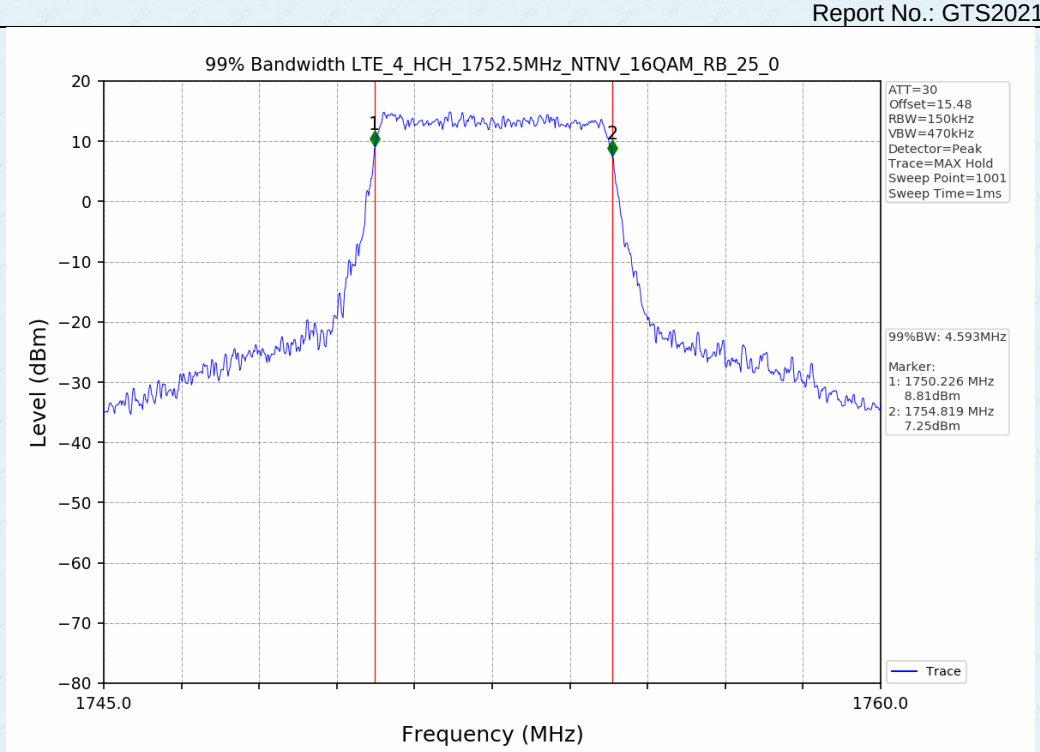
Test Band: 4 5MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		

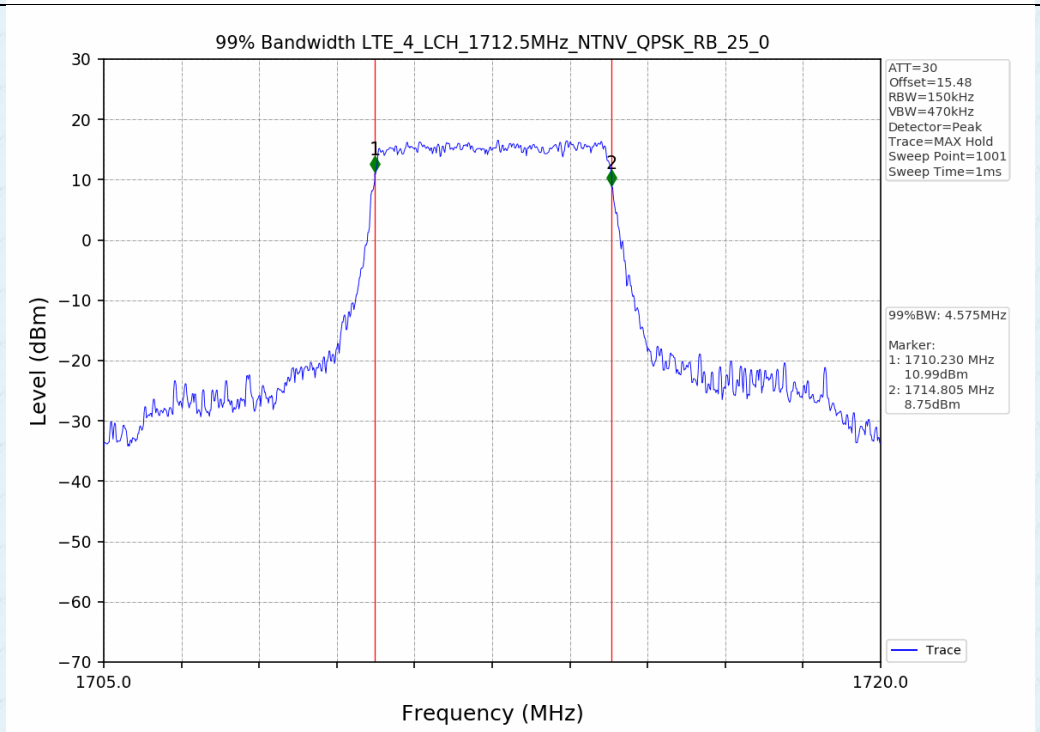
QPSK	25	0	4.575	4.583	4.577	N/A	PASS
16QAM	25	0	4.598	4.596	4.593	N/A	PASS

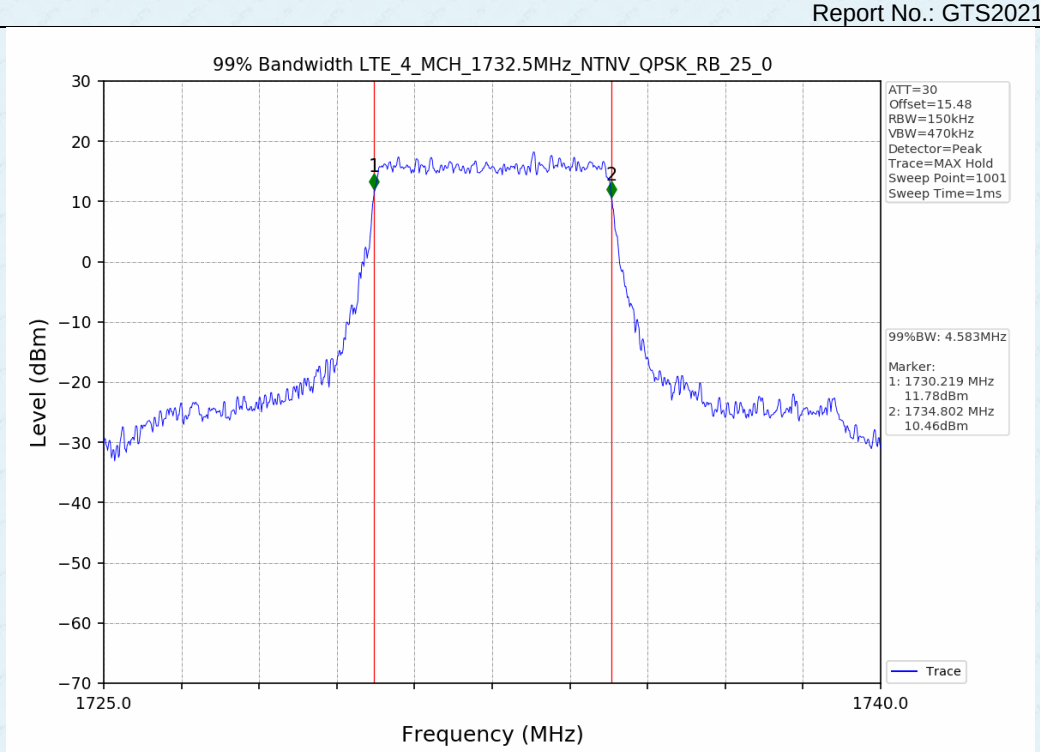
3.2 Test Graph

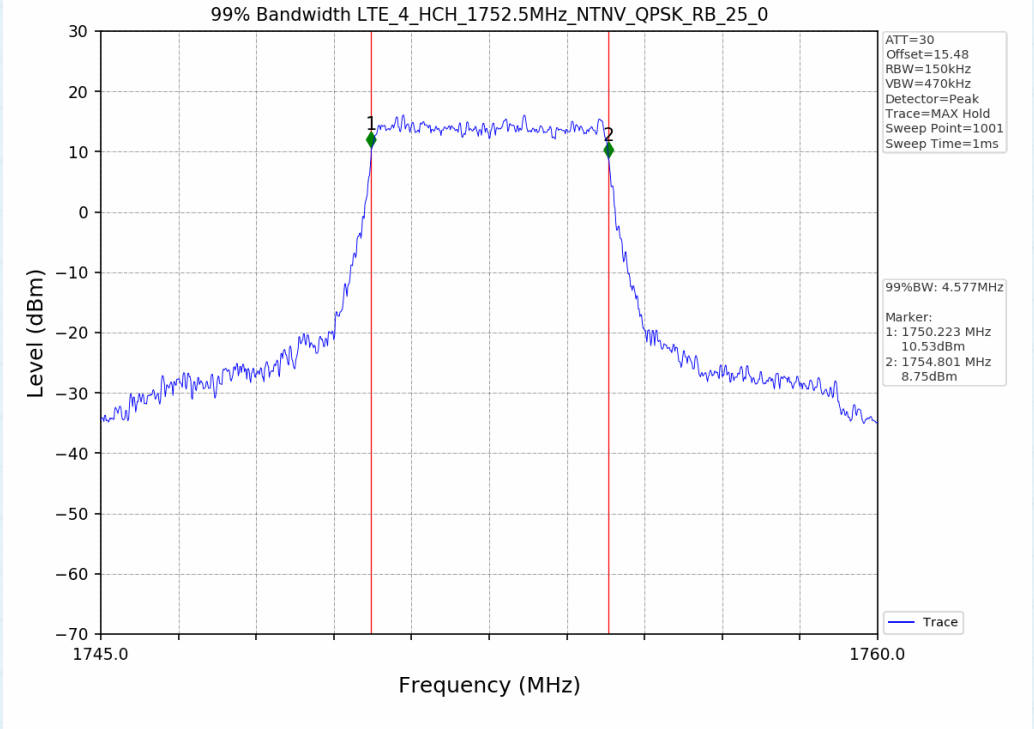





99% Bandwidth LTE_4_HCH_1752.5MHz_NTNV_16QAM_RB_25_0
ATT=30
Offset=15.48
RBW=150kHz
VBW=470kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 4.593MHz
Marker:
1: 1750.226 MHz
8.81dBm
2: 1754.819 MHz
7.25dBm
Trace
Level (dBm)
Frequency (MHz)
1745.0
1760.0


99% Bandwidth LTE_4_LCH_1712.5MHz_NTNV_QPSK_RB_25_0
ATT=30
Offset=15.48
RBW=150kHz
VBW=470kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 4.575MHz
Marker:
1: 1710.230 MHz
10.99dBm
2: 1714.805 MHz
8.75dBm
Trace
Level (dBm)
Frequency (MHz)
1705.0
1720.0

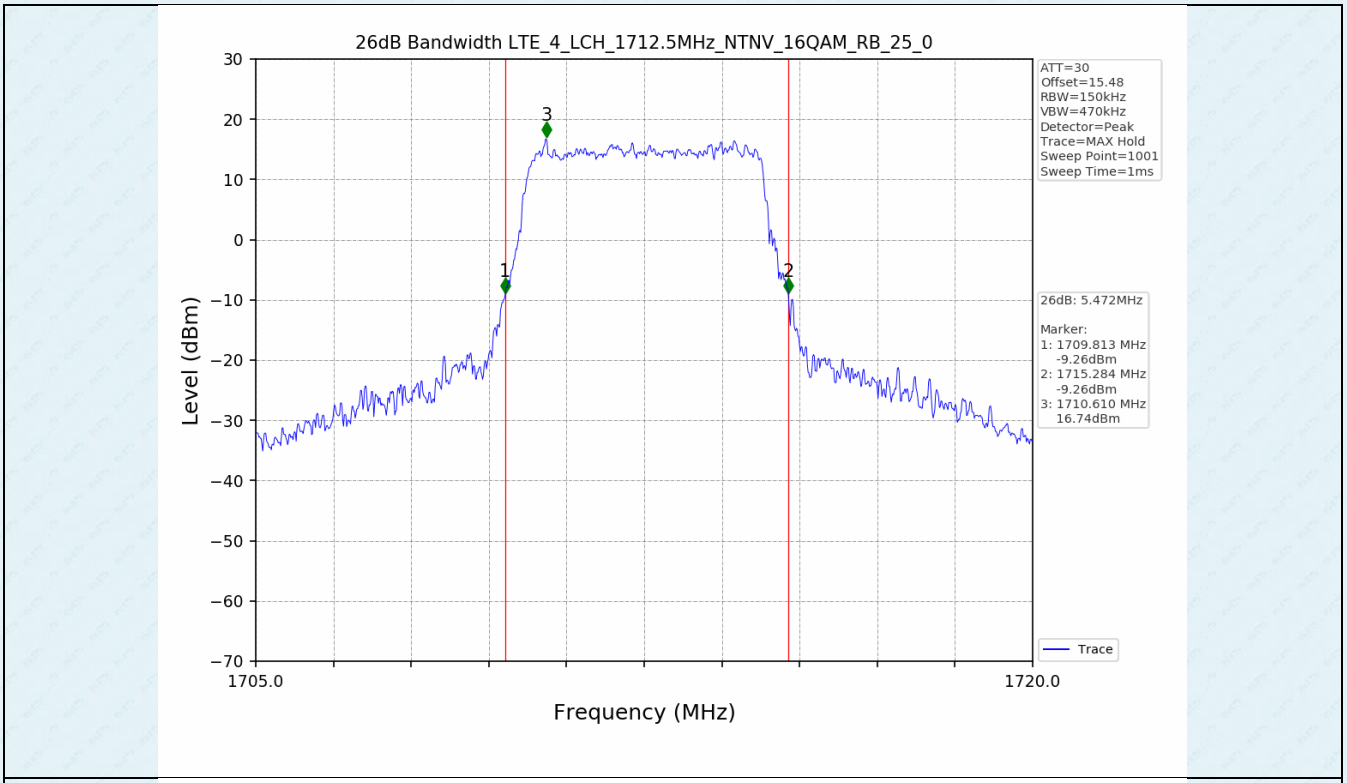


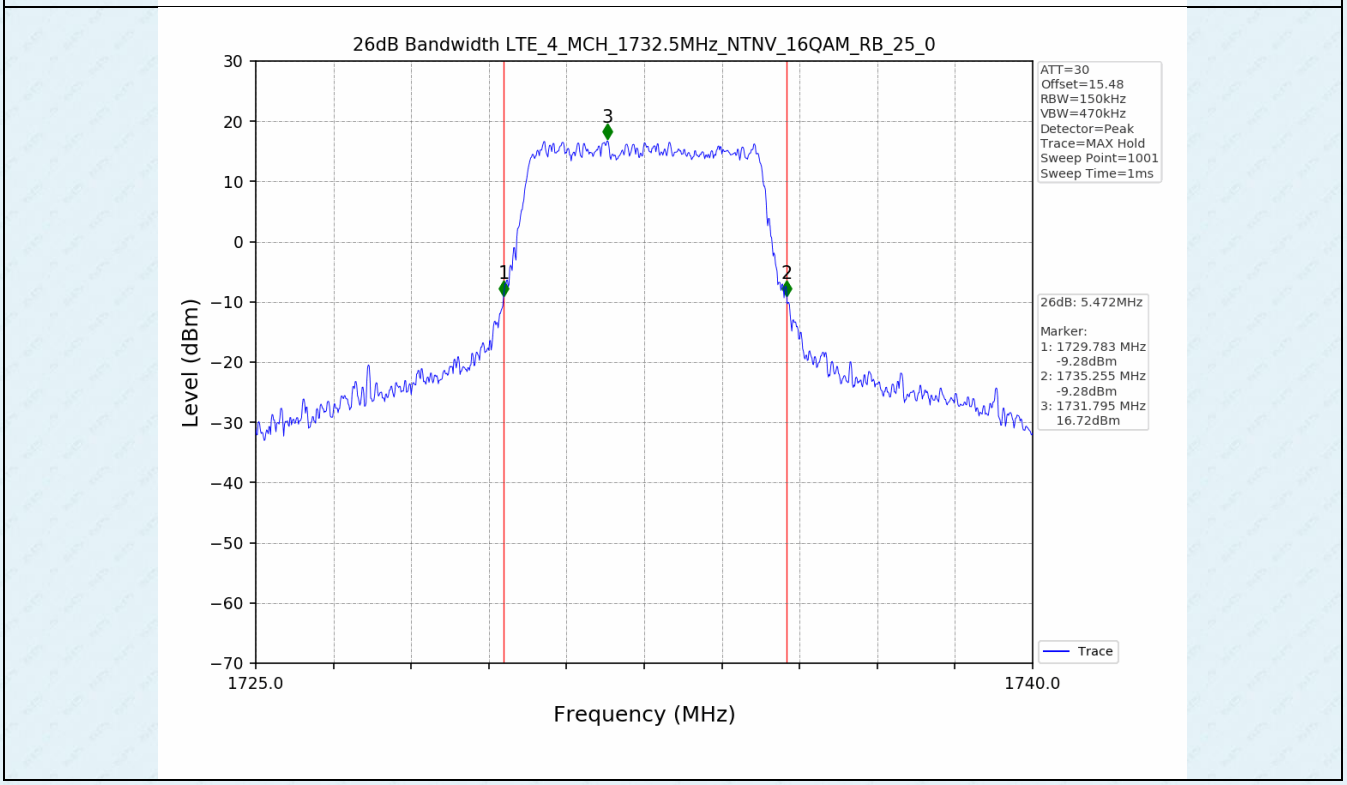


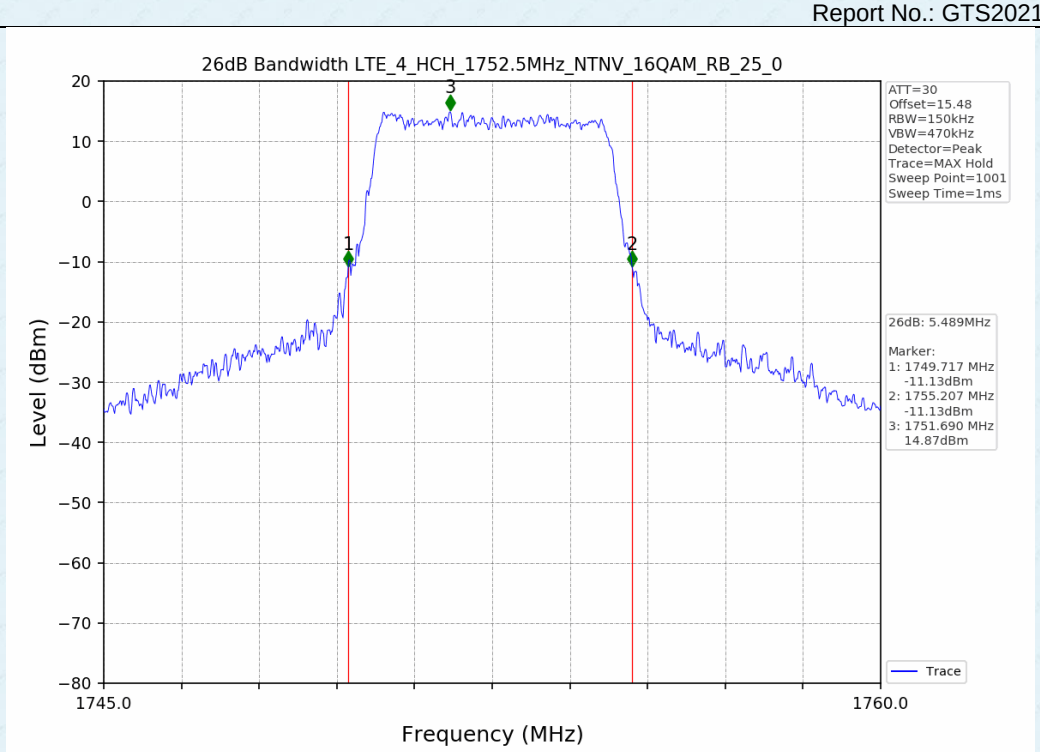
Test Band: 4 5MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		

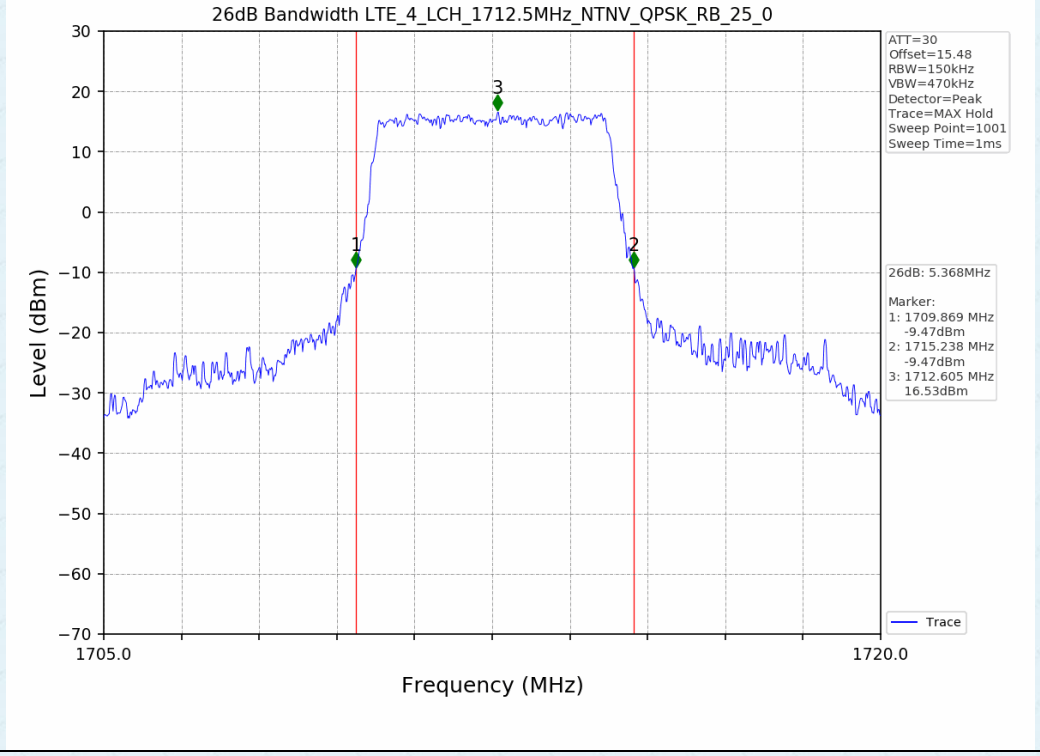
QPSK	25	0	5.368	5.444	5.358	N/A	PASS
16QAM	25	0	5.472	5.472	5.489	N/A	PASS

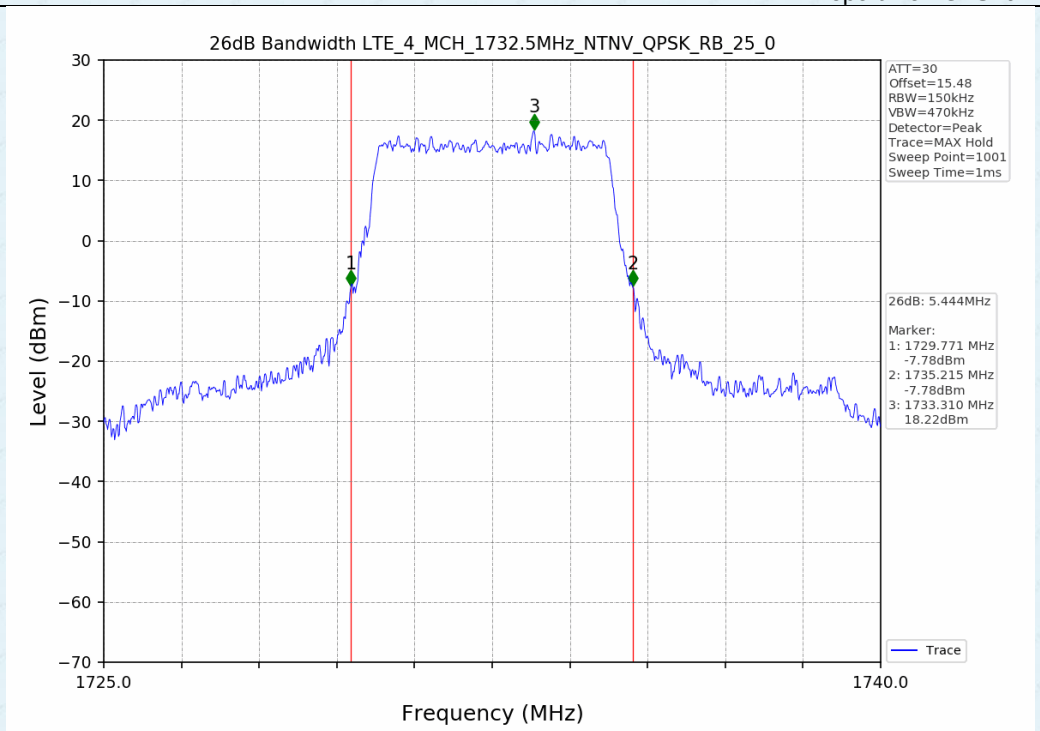
3.2 Test Graph

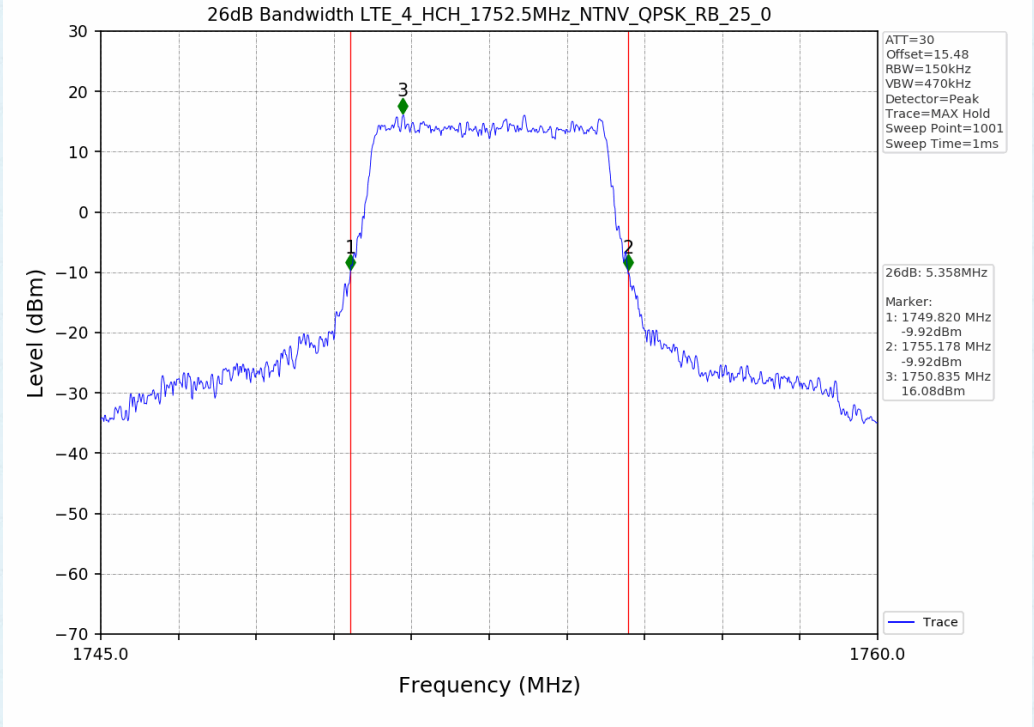





26dB Bandwidth LTE_4_HCH_1752.5MHz_NTNV_16QAM_RB_25_0
ATT=30
Offset=15.48
RBW=150kHz
VBW=470kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 5.489MHz
Marker:
1: 1749.717 MHz
-11.13dBm
2: 1755.207 MHz
-11.13dBm
3: 1751.690 MHz
14.87dBm
Trace
Level (dBm)
Frequency (MHz)
1745.0
1760.0


26dB Bandwidth LTE_4_LCH_1712.5MHz_NTNV_QPSK_RB_25_0
ATT=30
Offset=15.48
RBW=150kHz
VBW=470kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 5.368MHz
Marker:
1: 1709.869 MHz
-9.47dBm
2: 1715.238 MHz
-9.47dBm
3: 1712.605 MHz
16.53dBm
Trace
Level (dBm)
Frequency (MHz)
1705.0
1720.0

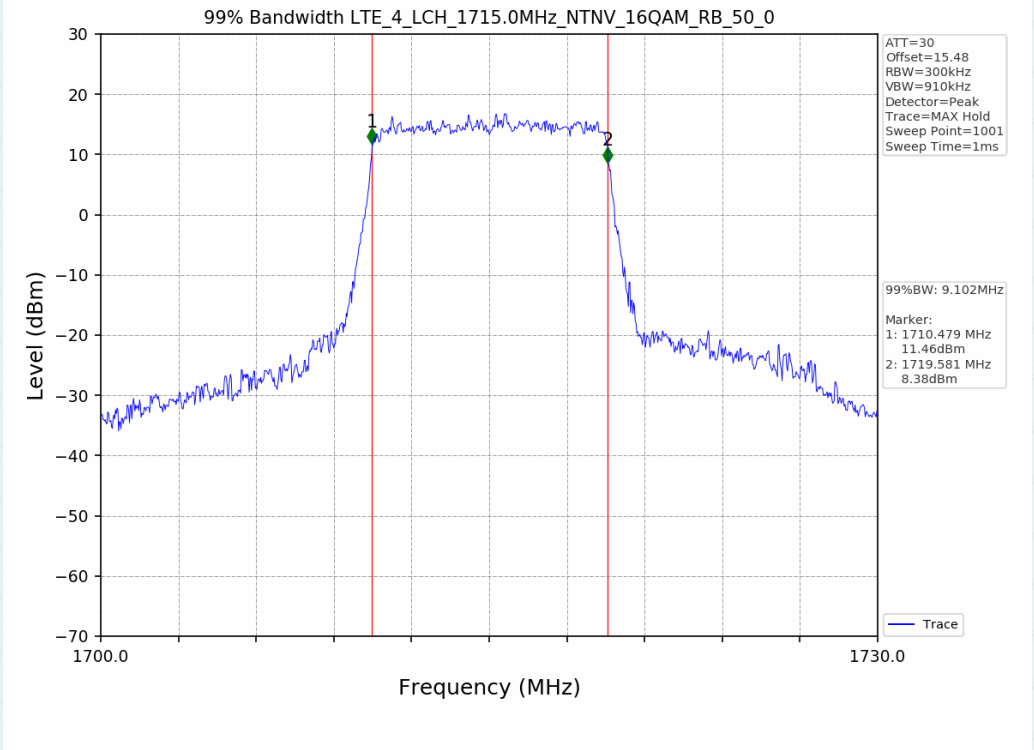


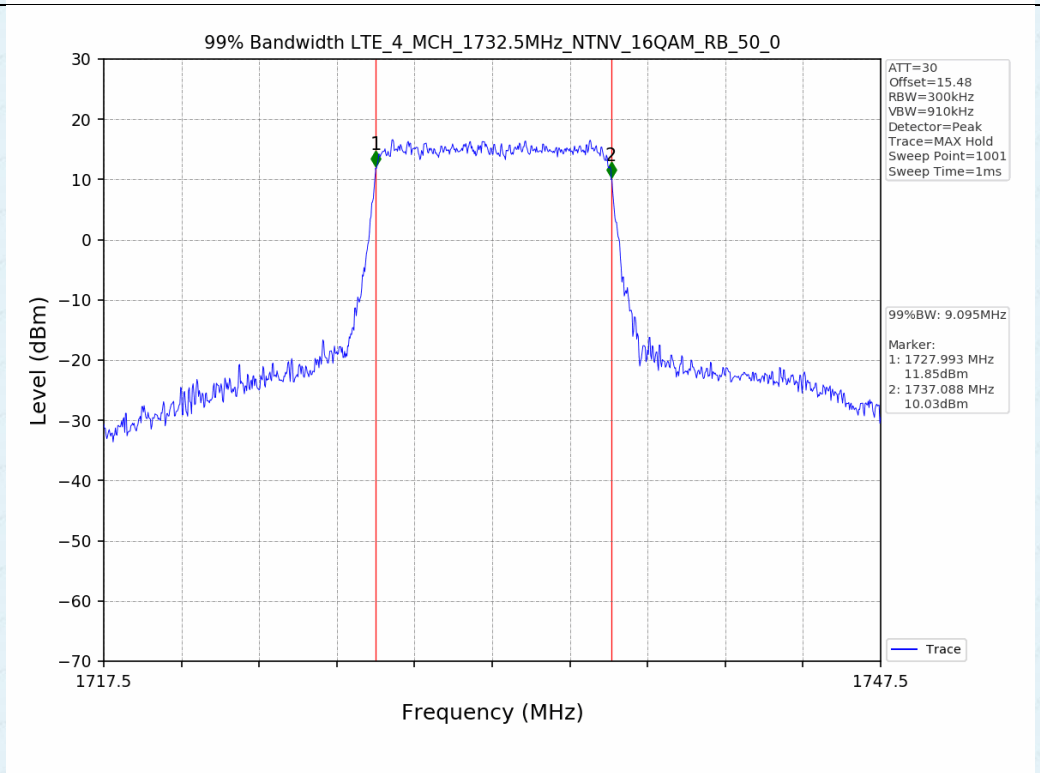


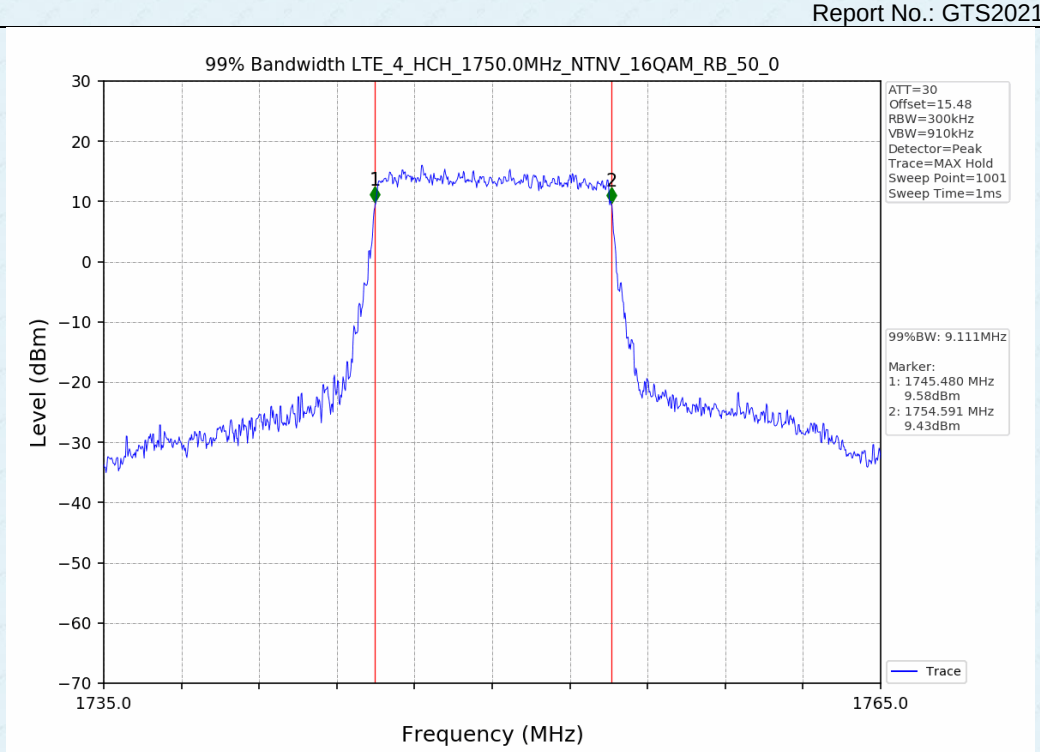
Test Band: 4 _ 10MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		

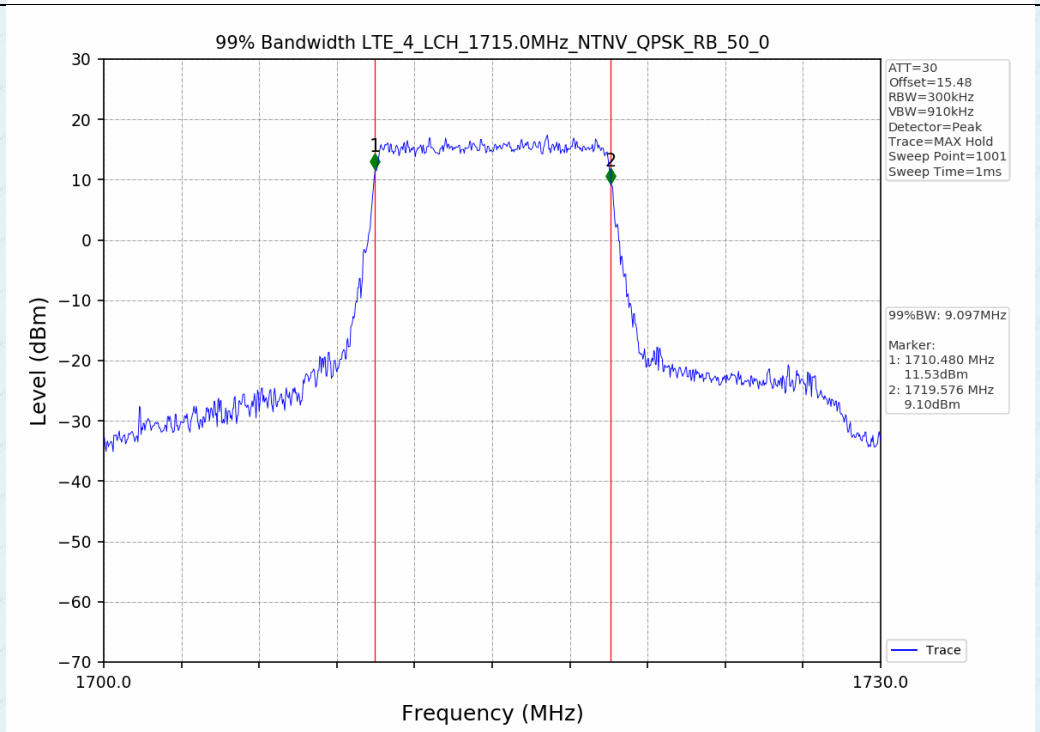
QPSK	50	0	9.097	9.086	9.116	N/A	PASS
16QAM	50	0	9.102	9.095	9.111	N/A	PASS

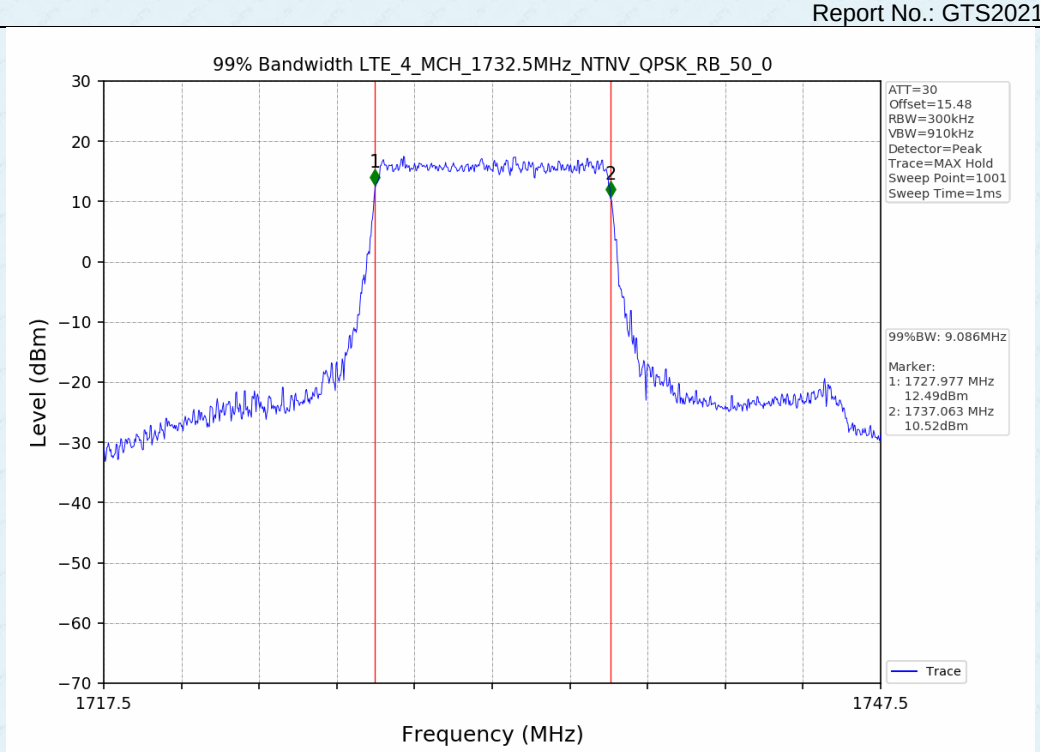
3.2 Test Graph

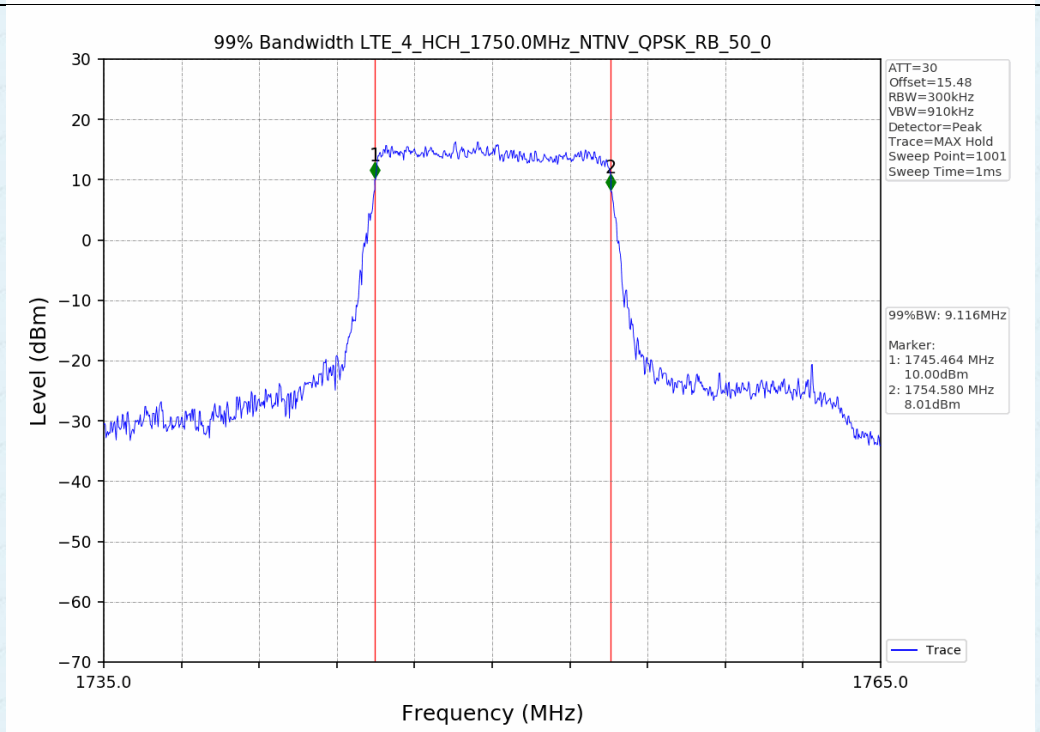





99% Bandwidth LTE_4_HCH_1750.0MHz_NTNV_16QAM_RB_50_0
ATT=30
Offset=15.48
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 9.111MHz
Marker:
1: 1745.480 MHz
9.58dBm
2: 1754.591 MHz
9.43dBm
Trace
Level (dBm)
Frequency (MHz)
1735.0
1765.0


99% Bandwidth LTE_4_LCH_1715.0MHz_NTNV_QPSK_RB_50_0
ATT=30
Offset=15.48
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 9.097MHz
Marker:
1: 1710.480 MHz
11.53dBm
2: 1719.576 MHz
9.10dBm
Trace
Level (dBm)
Frequency (MHz)
1700.0
1730.0

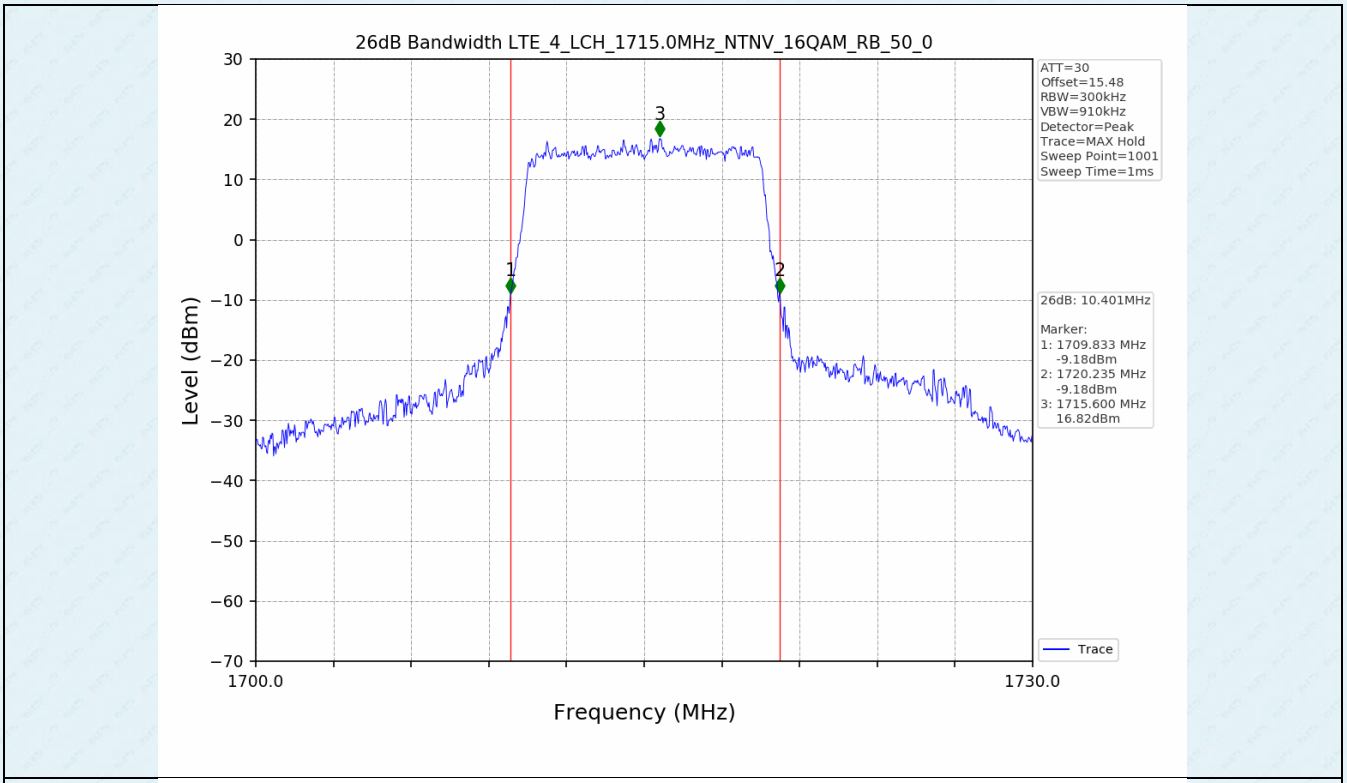


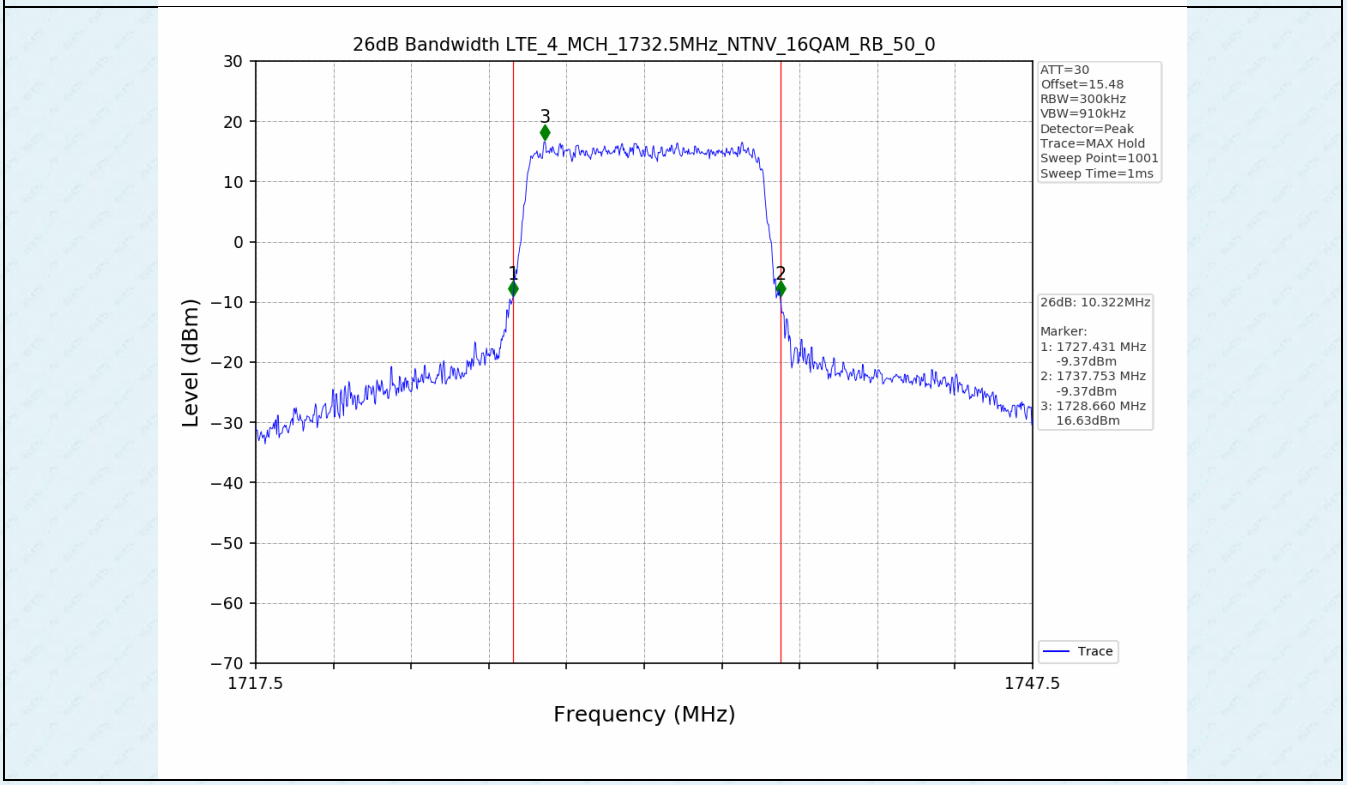


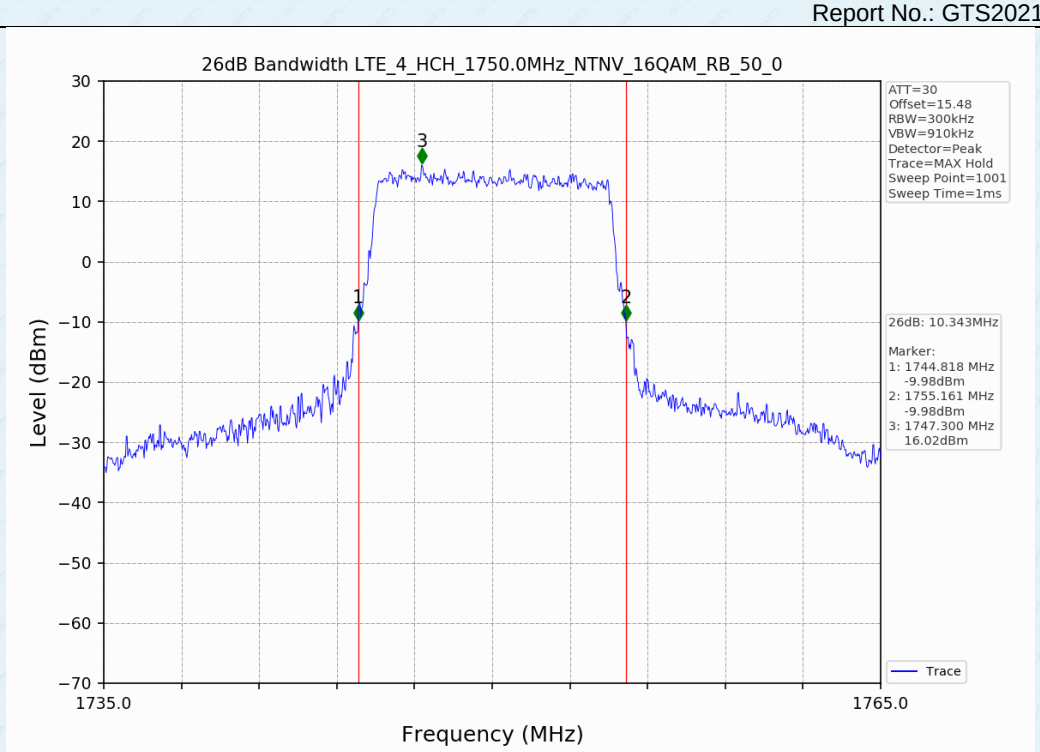
Test Band: 4 10MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		

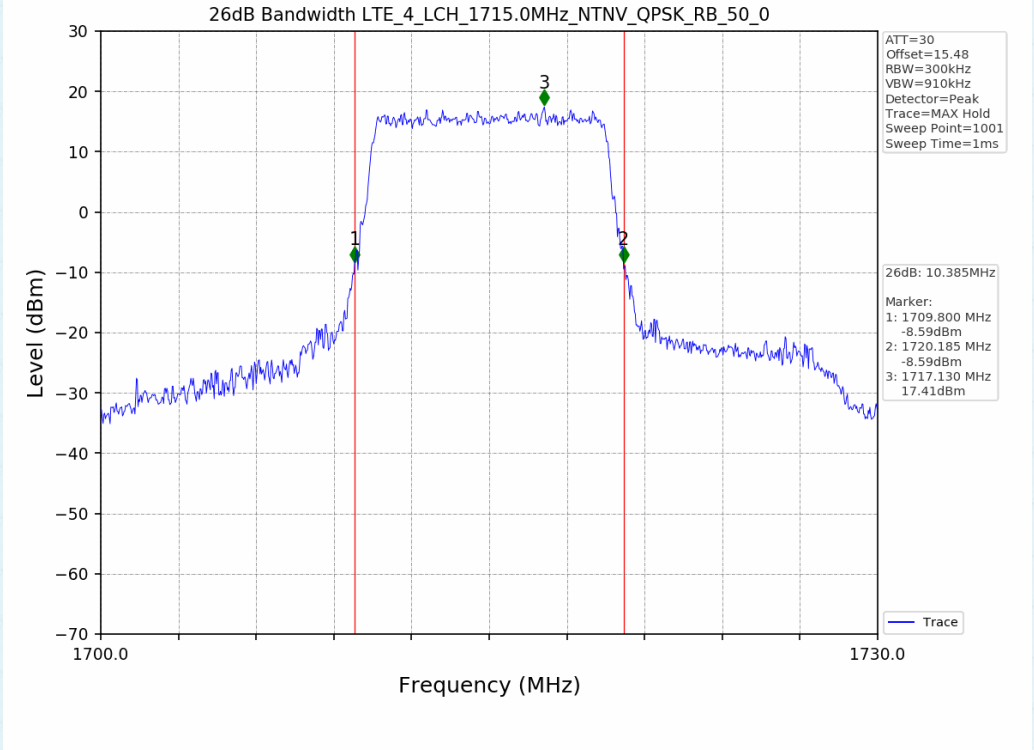
QPSK	50	0	10.385	10.500	10.375	N/A	PASS
16QAM	50	0	10.401	10.322	10.343	N/A	PASS

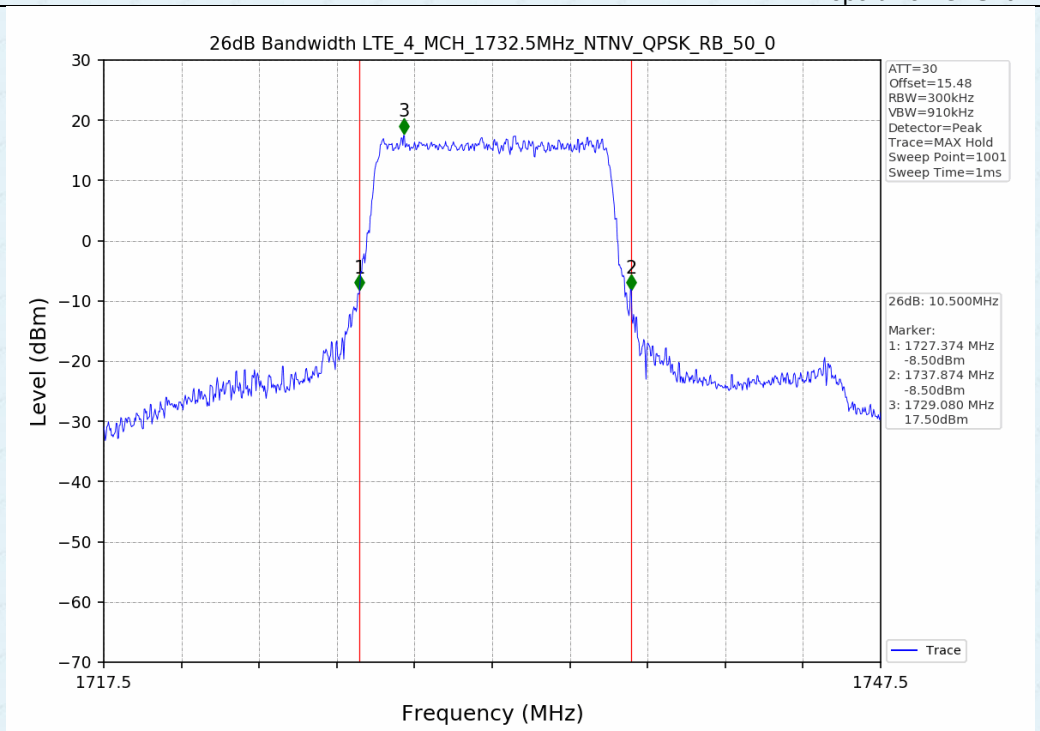
3.2 Test Graph

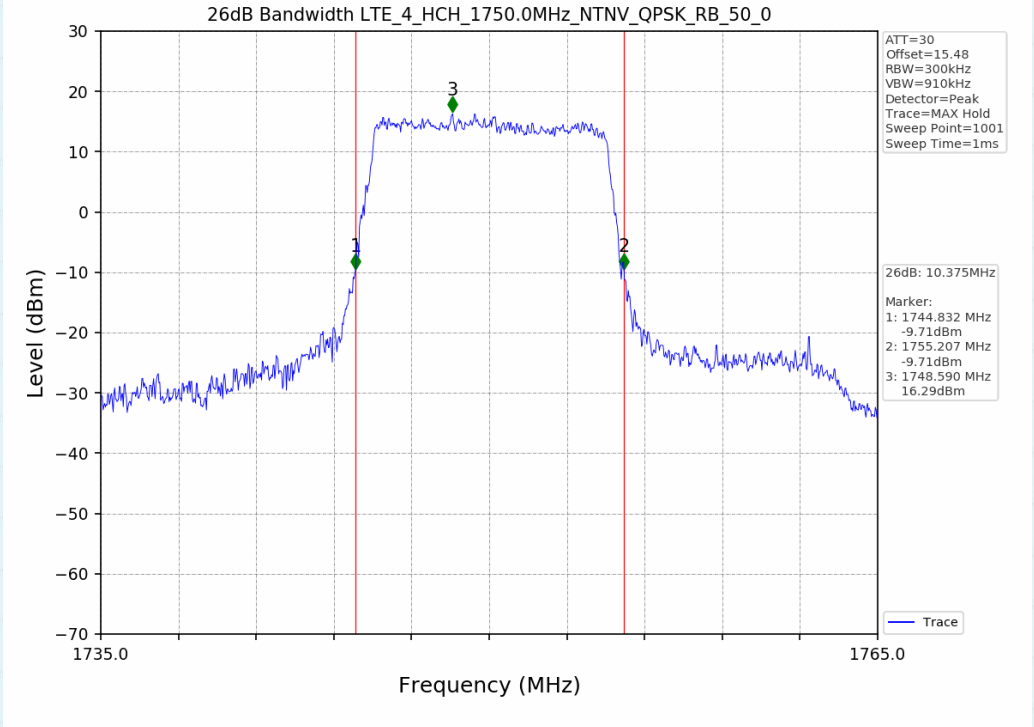





26dB Bandwidth LTE_4_HCH_1750.0MHz_NTNV_16QAM_RB_50_0
ATT=30
Offset=15.48
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 10.343MHz
Marker:
1: 1744.818 MHz
-9.98dBm
2: 1755.161 MHz
-9.98dBm
3: 1747.300 MHz
16.02dBm
Trace
Level (dBm)
Frequency (MHz)
1735.0
1765.0


26dB Bandwidth LTE_4_LCH_1715.0MHz_NTNV_QPSK_RB_50_0
ATT=30
Offset=15.48
RBW=300kHz
VBW=910kHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 10.385MHz
Marker:
1: 1709.800 MHz
-8.59dBm
2: 1720.185 MHz
-8.59dBm
3: 1717.130 MHz
17.41dBm
Trace
Level (dBm)
Frequency (MHz)
1700.0
1730.0

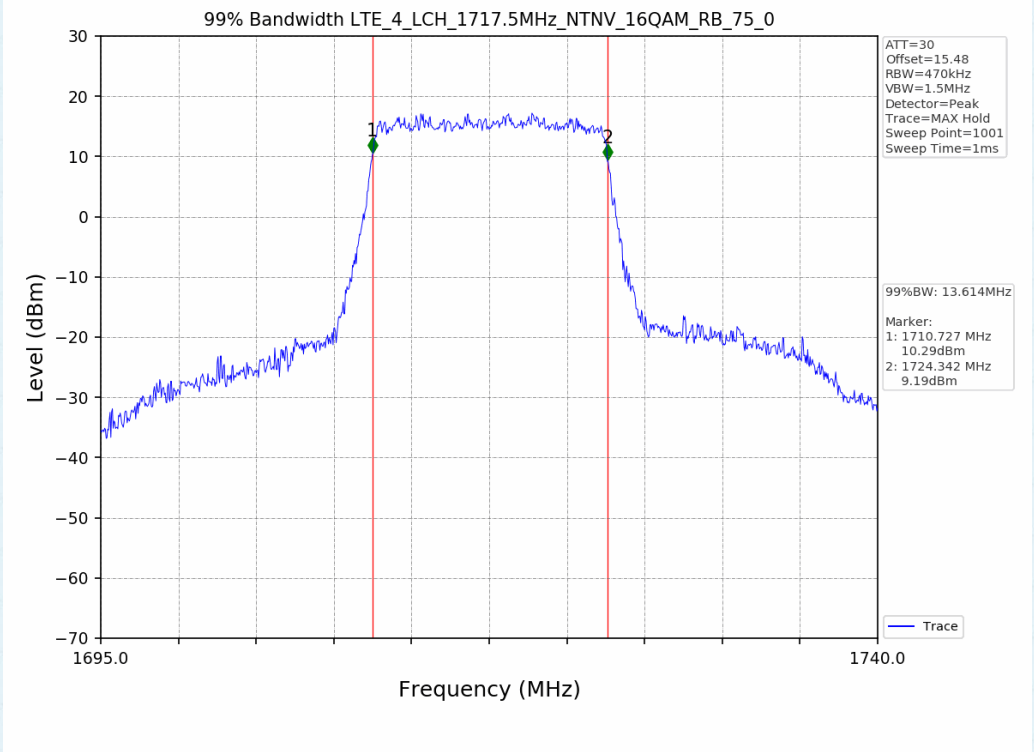


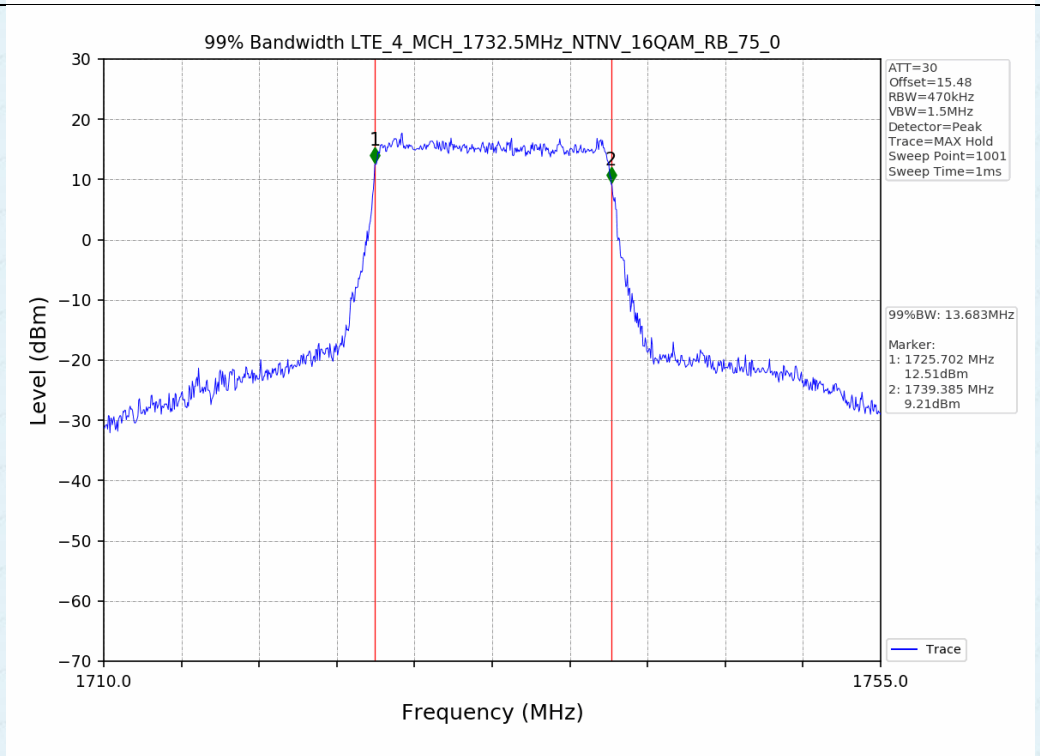


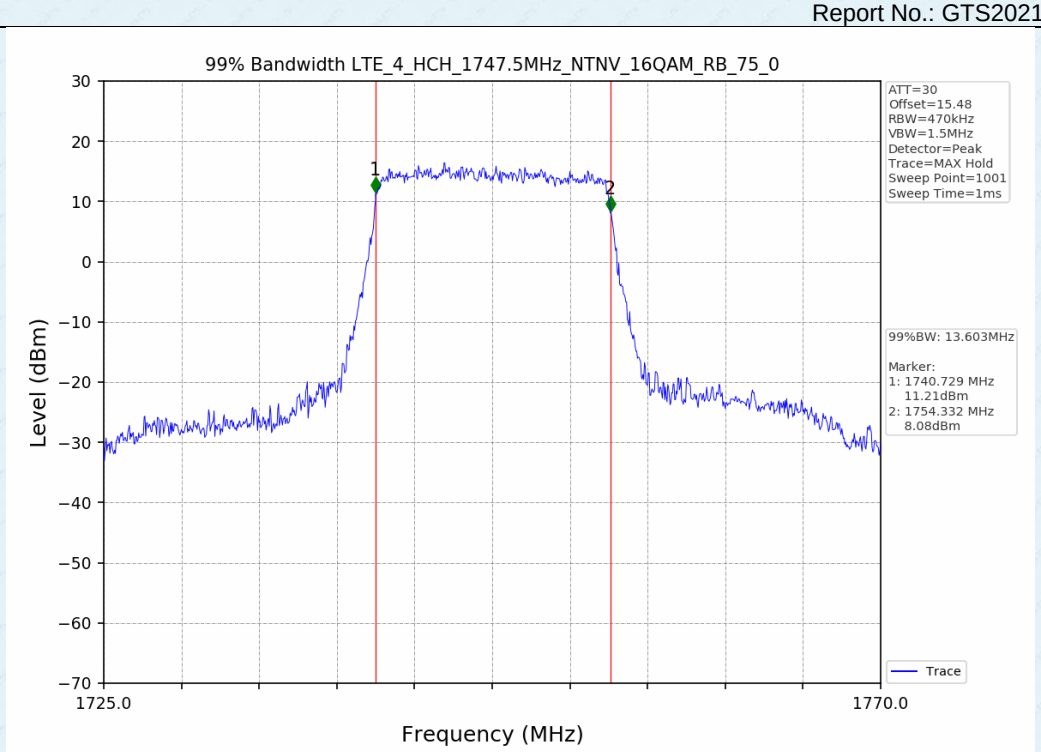
Test Band: 4 _ 15MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		

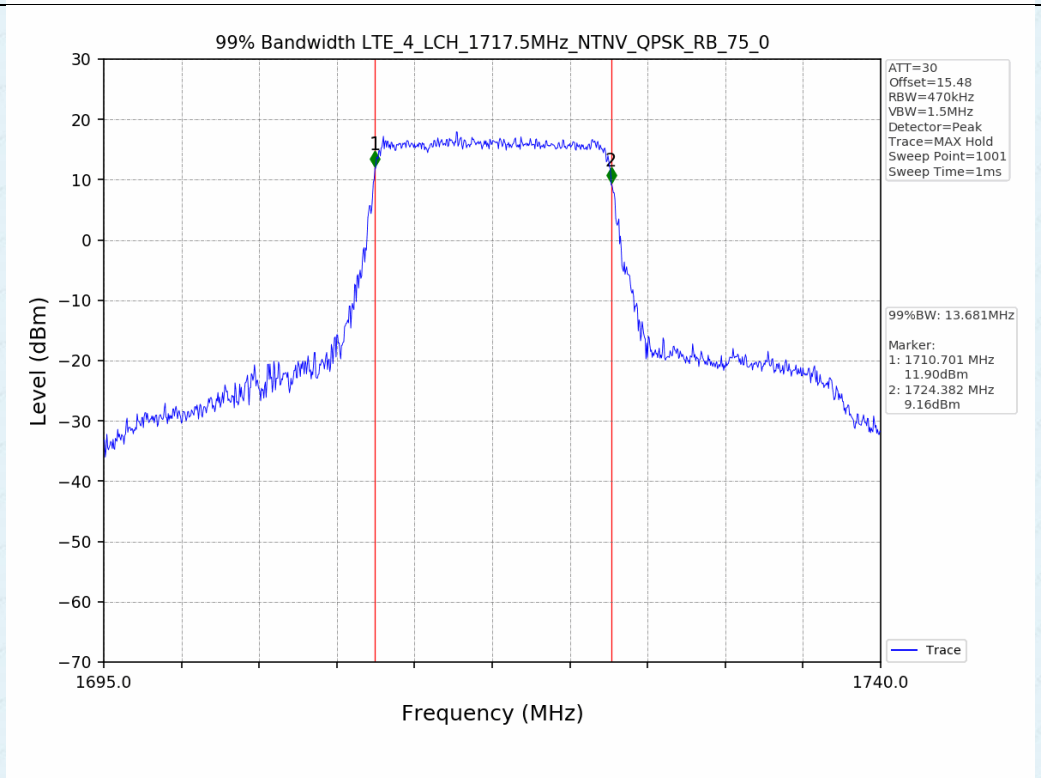
QPSK	75	0	13.681	13.685	13.611	N/A	PASS
16QAM	75	0	13.614	13.683	13.603	N/A	PASS

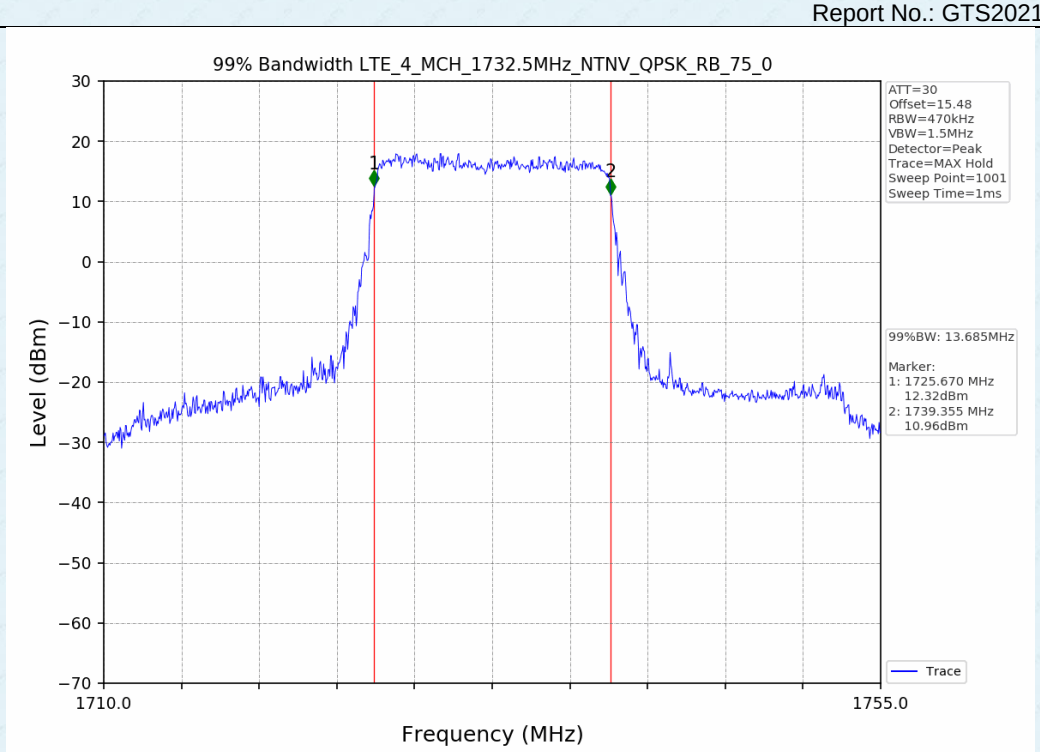
3.2 Test Graph

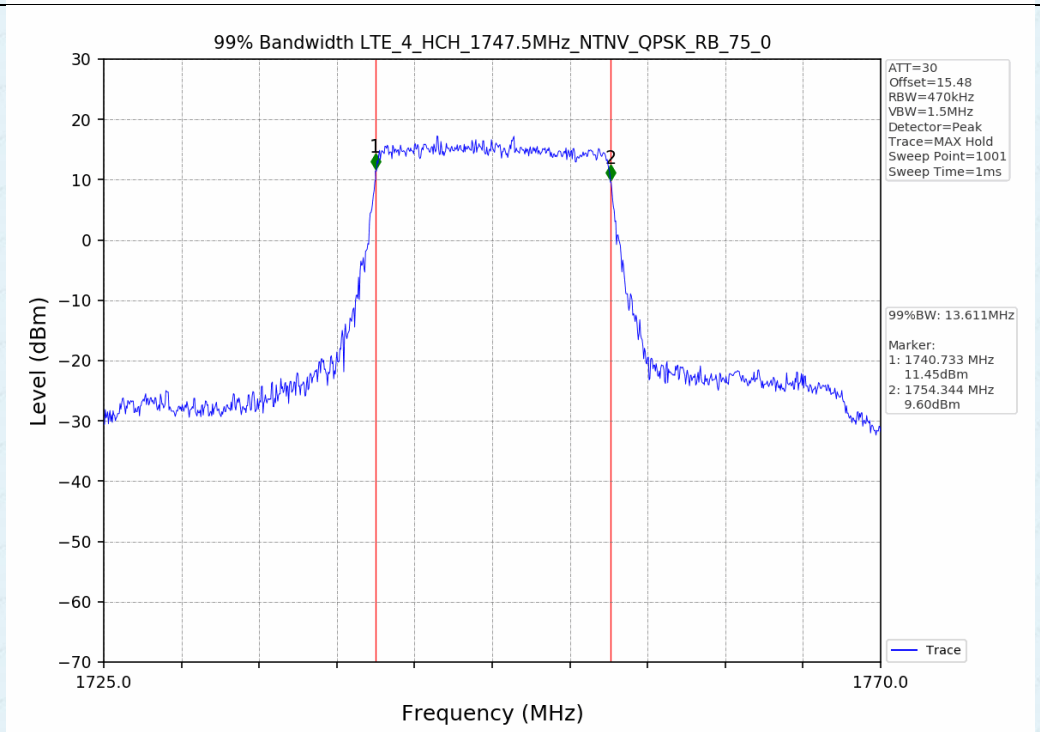





99% Bandwidth LTE_4_HCH_1747.5MHz_NTNV_16QAM_RB_75_0
ATT=30
Offset=15.48
RBW=470kHz
VBW=1.5MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 13.603MHz
Marker:
1: 1740.729 MHz
11.21dBm
2: 1754.332 MHz
8.08dBm
Trace
Level (dBm)
Frequency (MHz)
1725.0
1770.0


99% Bandwidth LTE_4_LCH_1717.5MHz_NTNV_QPSK_RB_75_0
ATT=30
Offset=15.48
RBW=470kHz
VBW=1.5MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 13.681MHz
Marker:
1: 1710.701 MHz
11.90dBm
2: 1724.382 MHz
9.16dBm
Trace
Level (dBm)
Frequency (MHz)
1695.0
1740.0

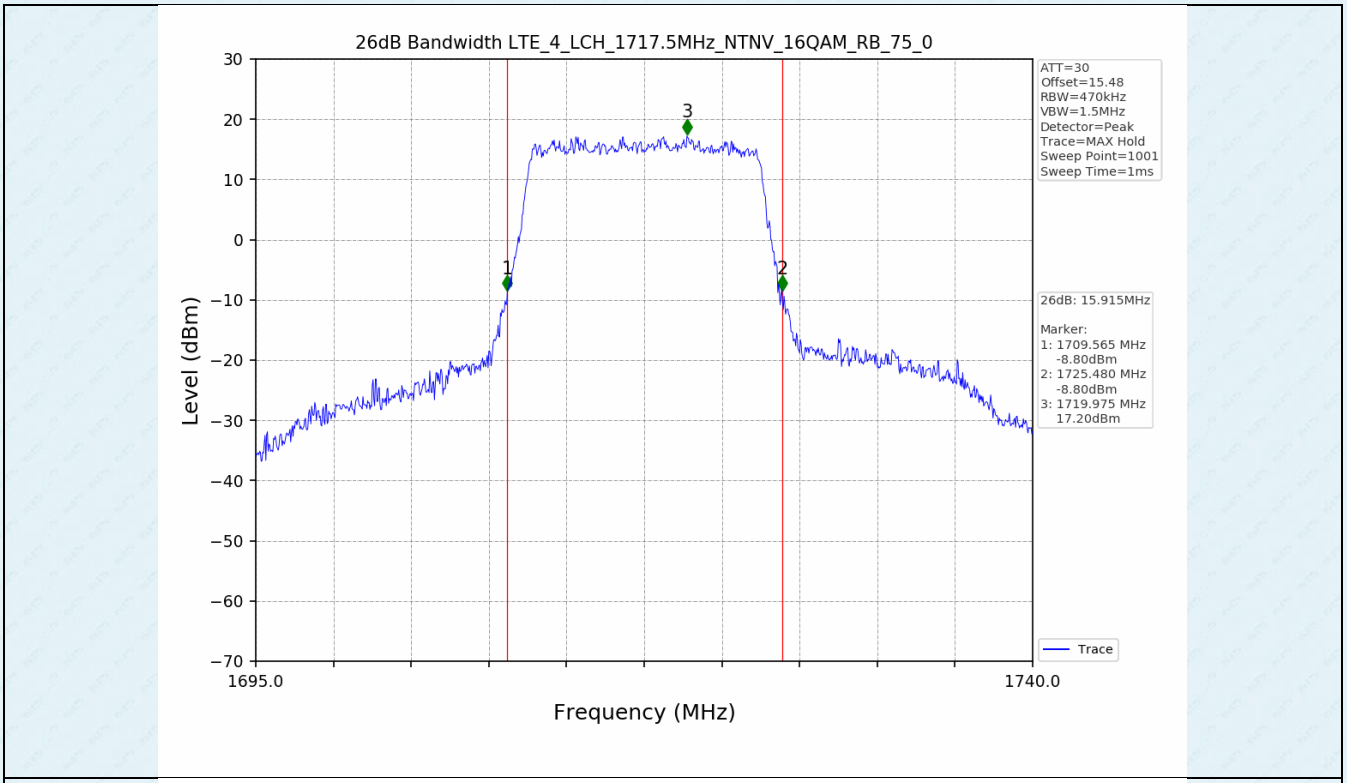


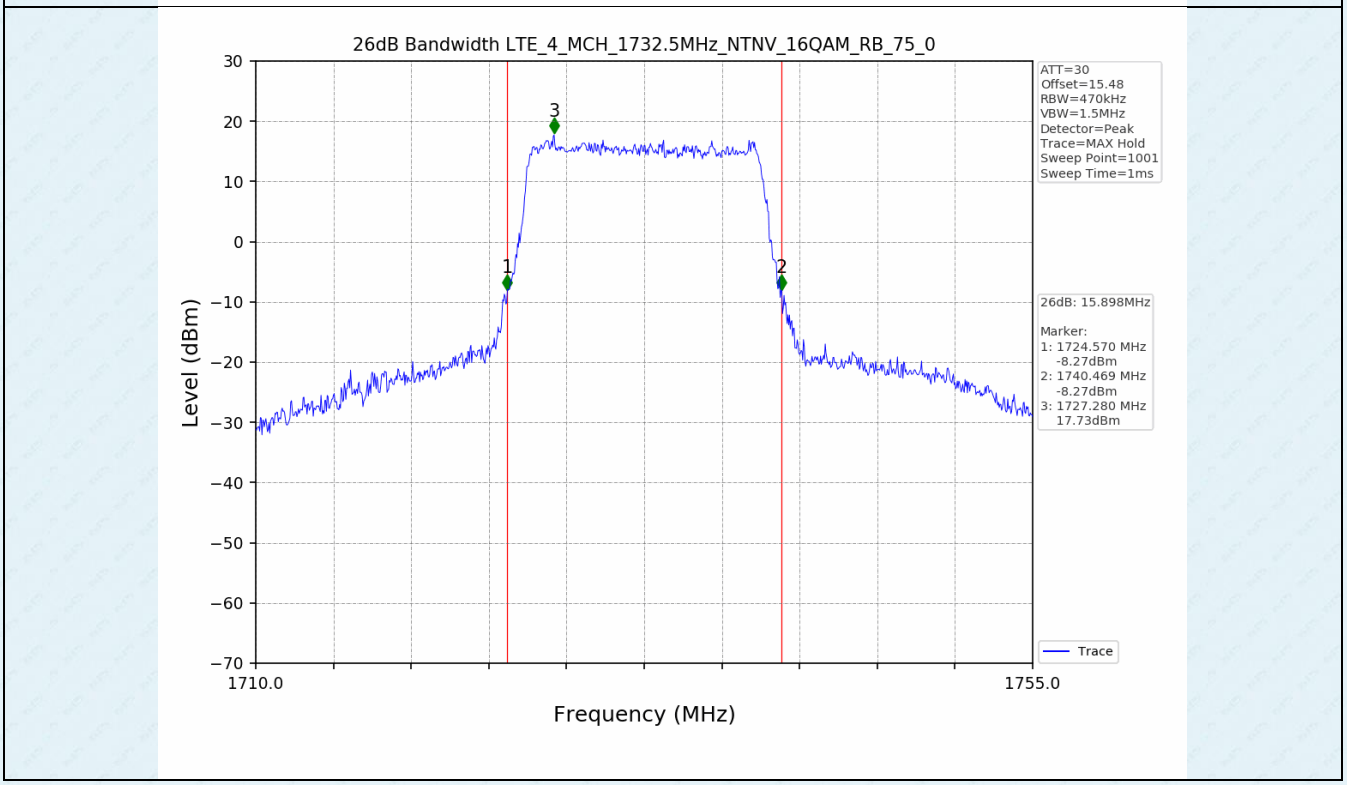


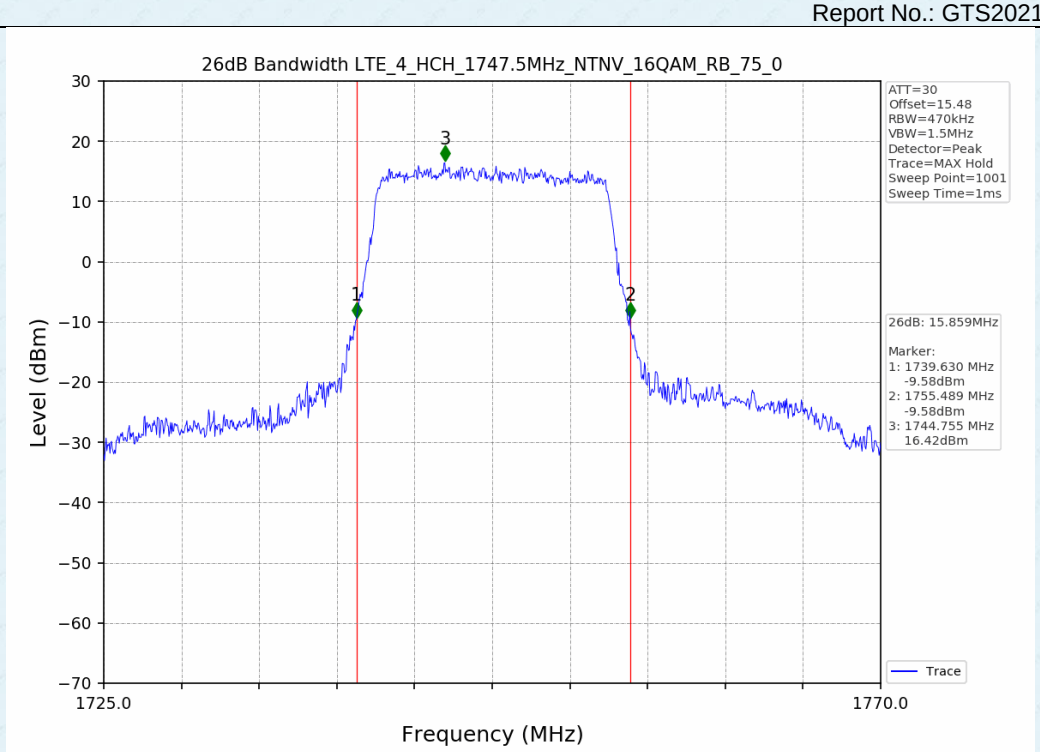
Test Band: 4 15MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		

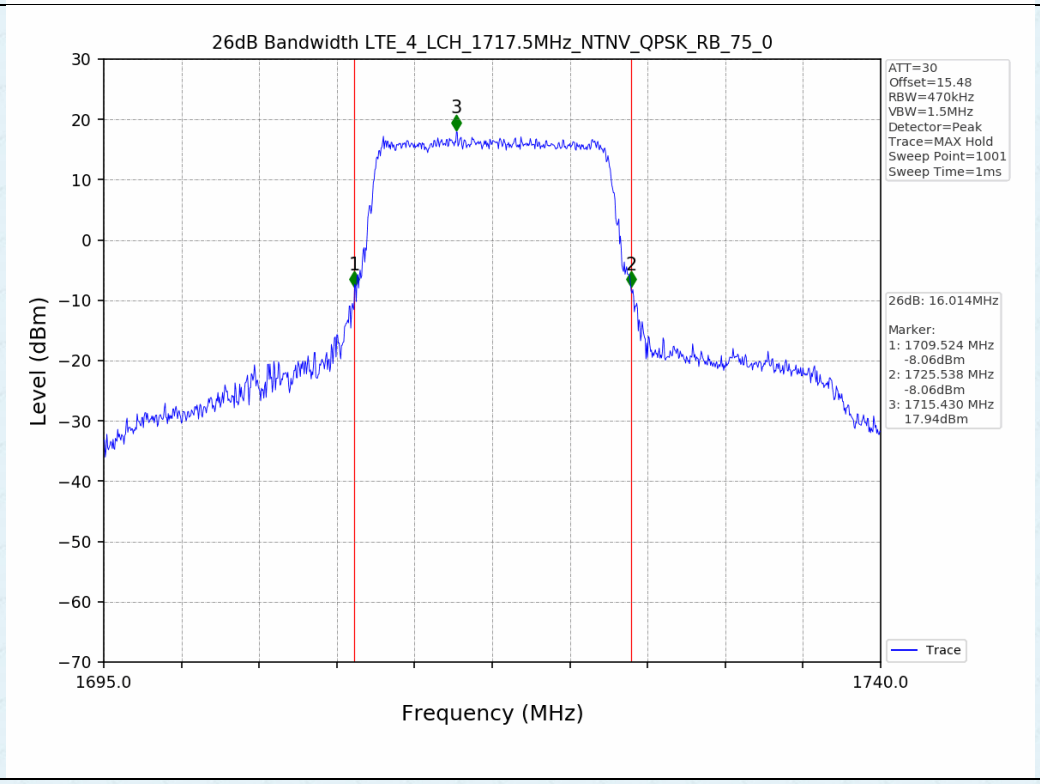
QPSK	75	0	16.014	16.042	15.513	N/A	PASS
16QAM	75	0	15.915	15.898	15.859	N/A	PASS

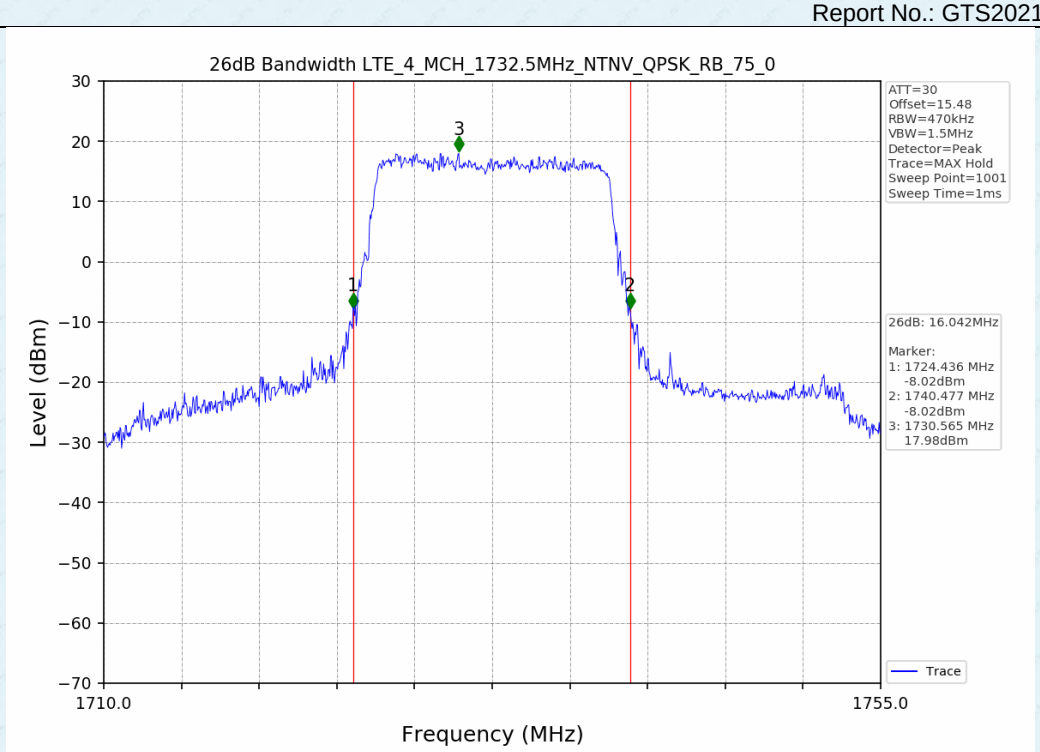
3.2 Test Graph

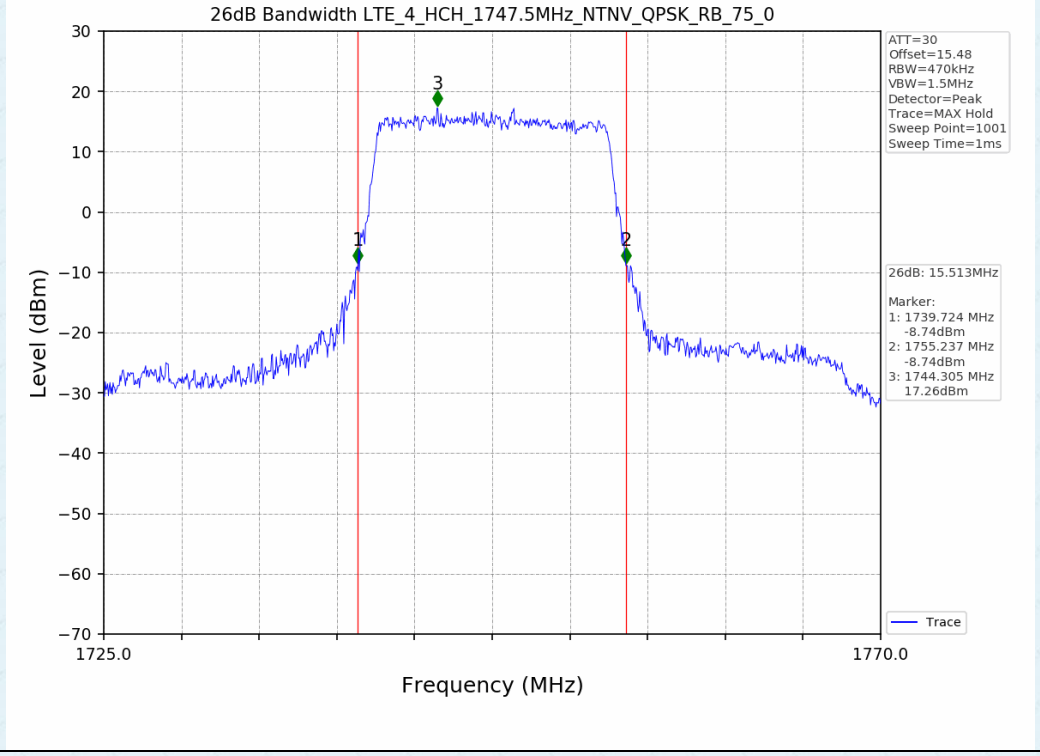





26dB Bandwidth LTE_4_HCH_1747.5MHz_NTNV_16QAM_RB_75_0
ATT=30
Offset=15.48
RBW=470kHz
VBW=1.5MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 15.859MHz
Marker:
1: 1739.630 MHz
-9.58dBm
2: 1755.489 MHz
-9.58dBm
3: 1744.755 MHz
16.42dBm
Trace
Level (dBm)
Frequency (MHz)
1725.0
1770.0


26dB Bandwidth LTE_4_LCH_1717.5MHz_NTNV_QPSK_RB_75_0
ATT=30
Offset=15.48
RBW=470kHz
VBW=1.5MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 16.014MHz
Marker:
1: 1709.524 MHz
-8.06dBm
2: 1725.538 MHz
-8.06dBm
3: 1715.430 MHz
17.94dBm
Trace
Level (dBm)
Frequency (MHz)
1695.0
1740.0

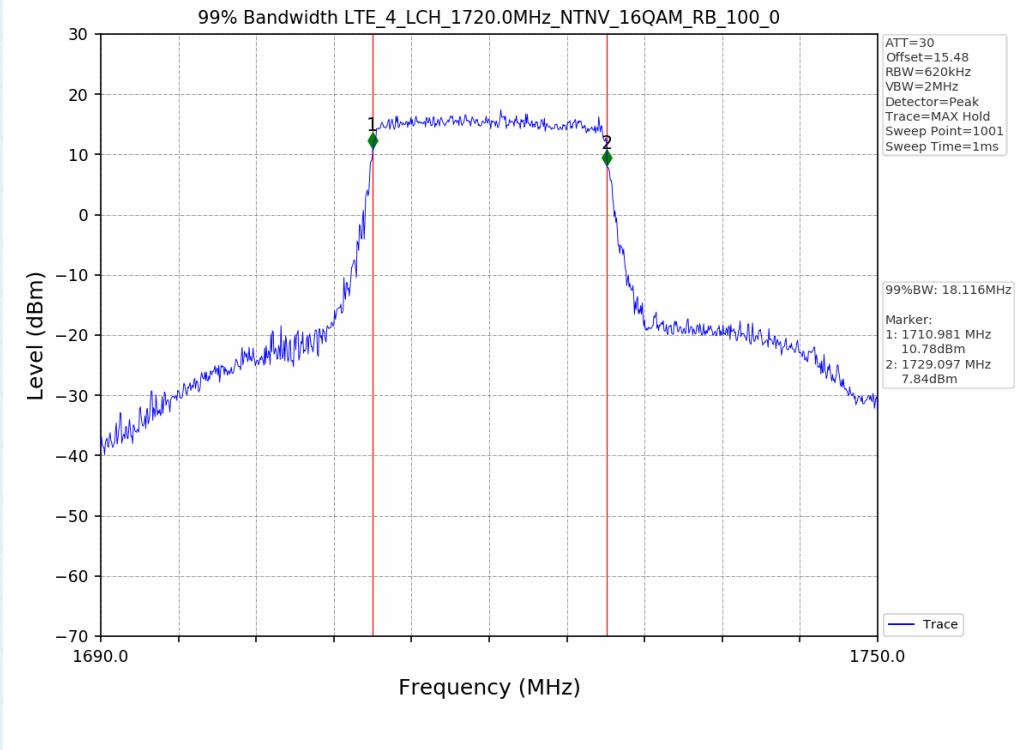


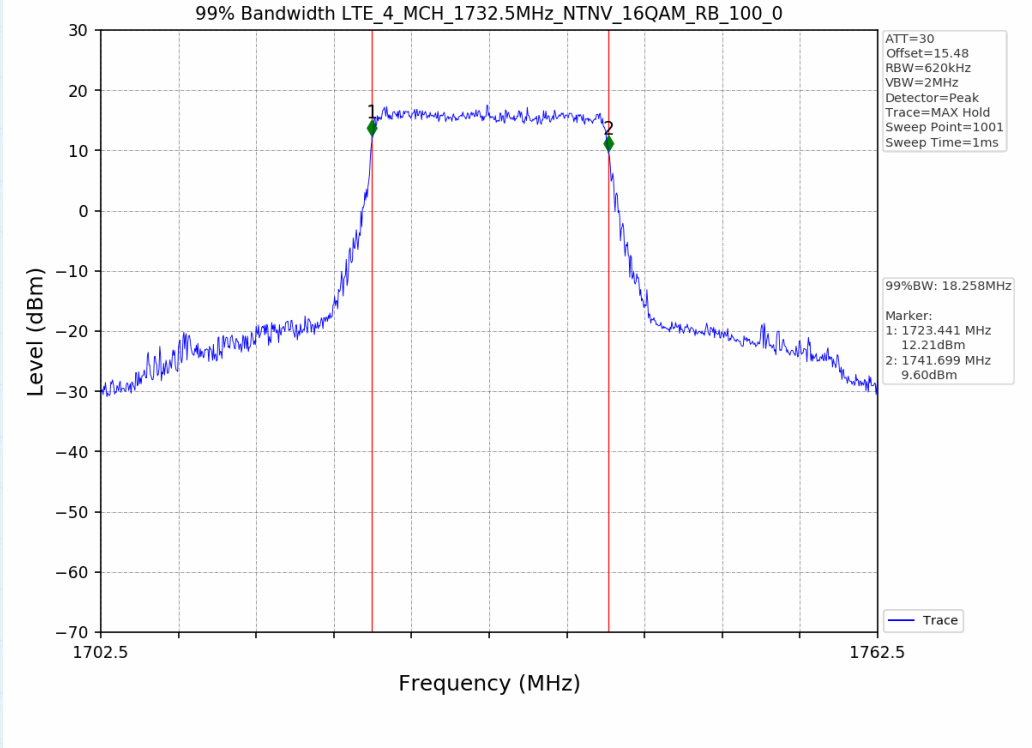


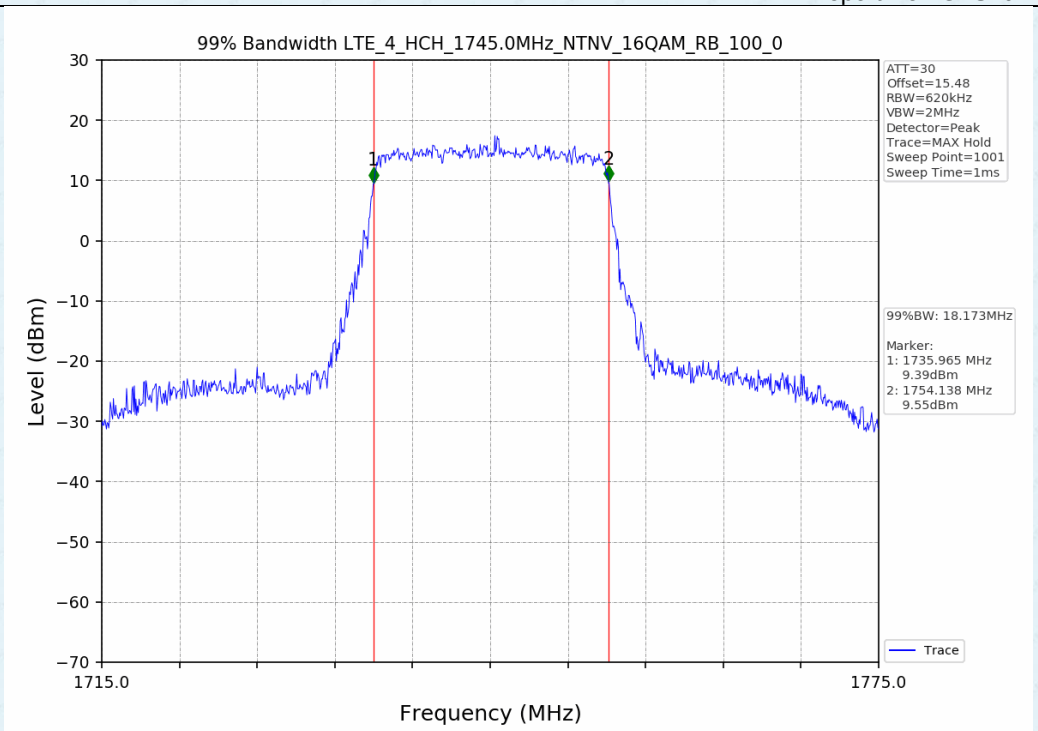
Test Band: 4 _ 20MHz Bandwidth							
Test Mode	RB Allocation		99% Occupied Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		

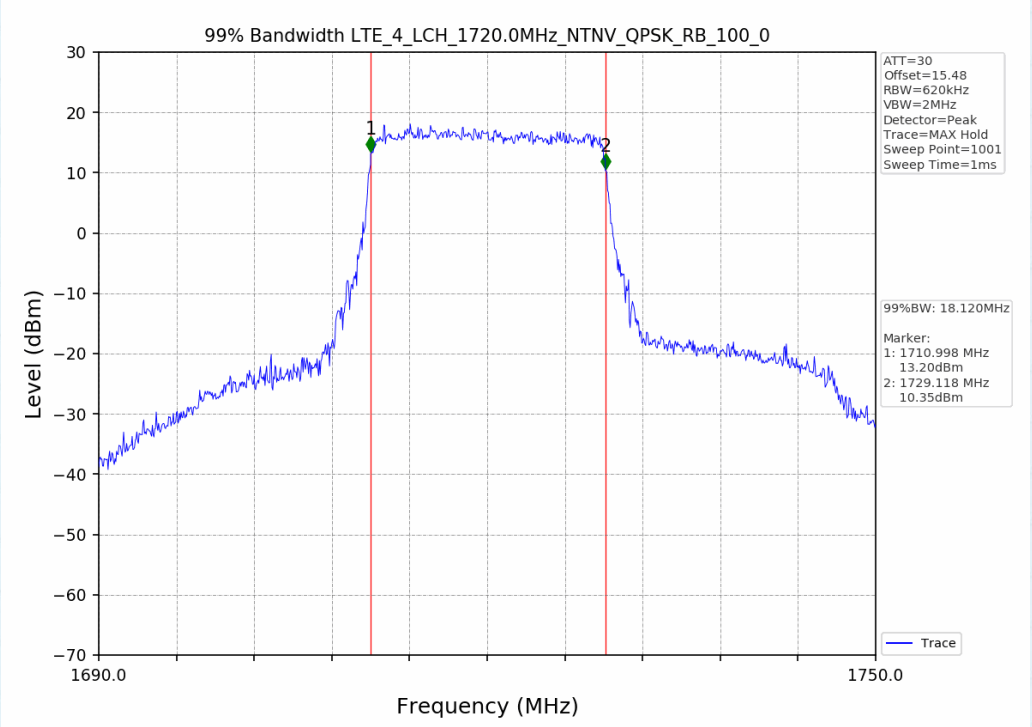
QPSK	100	0	18.120	18.218	18.181	N/A	PASS
16QAM	100	0	18.116	18.258	18.173	N/A	PASS

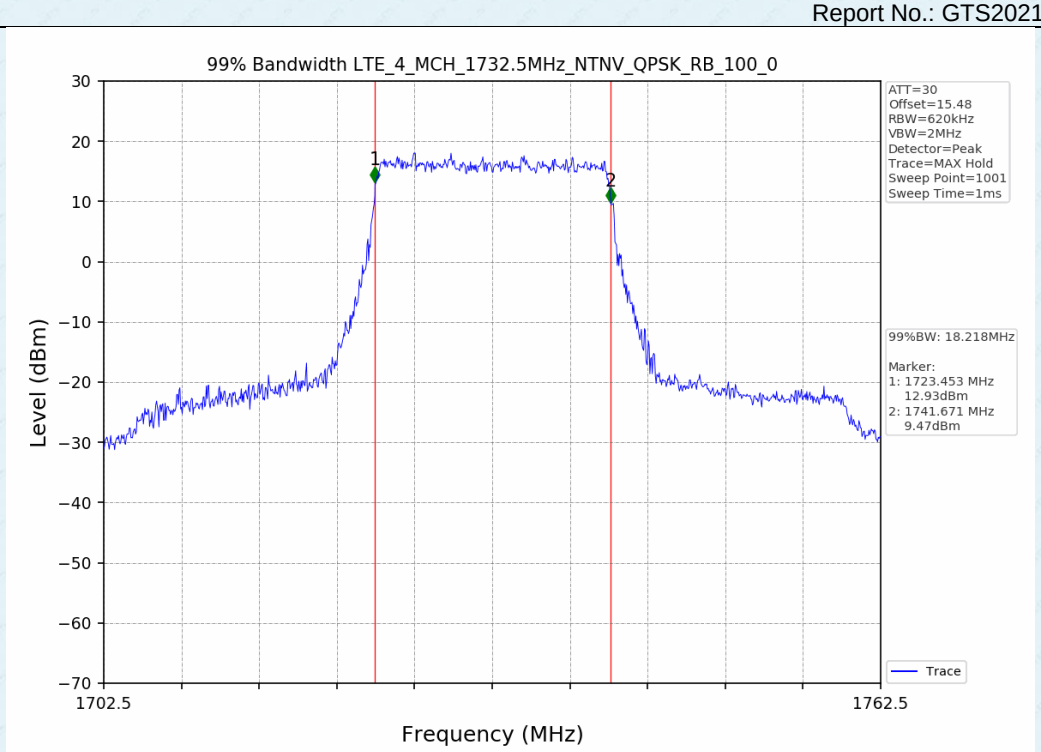
3.2 Test Graph

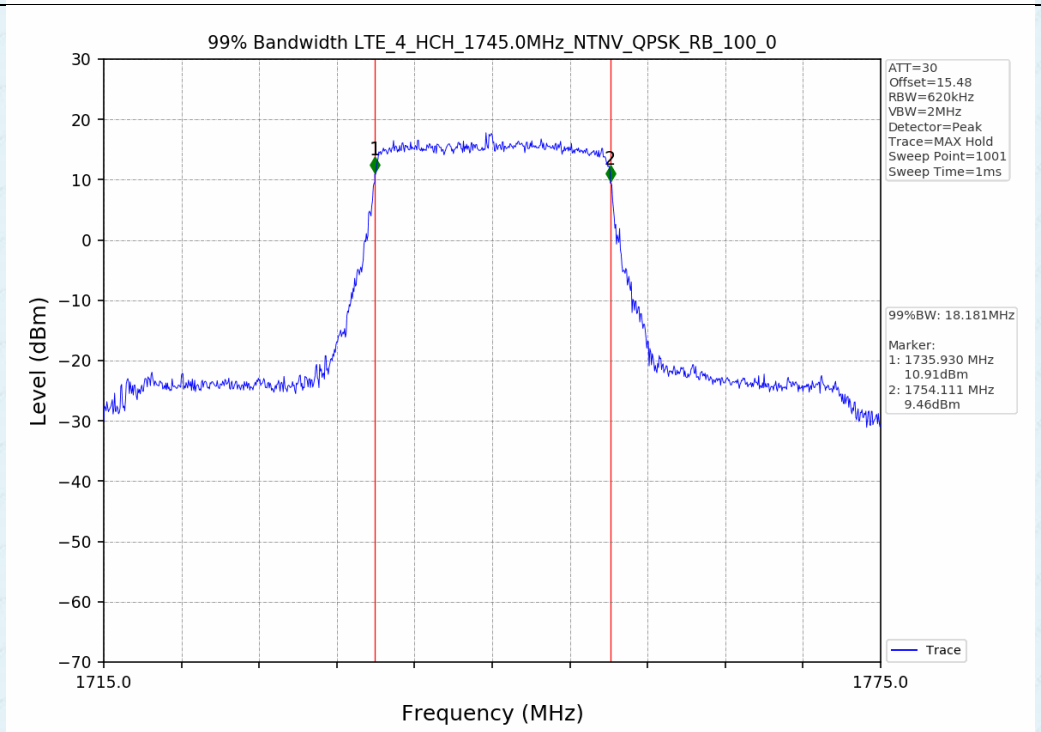





99% Bandwidth LTE_4_HCH_1745.0MHz_NTNV_16QAM_RB_100_0
ATT=30
Offset=15.48
RBW=620kHz
VBW=2MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 18.173MHz
Marker:
1: 1735.965 MHz
9.39dBm
2: 1754.138 MHz
9.55dBm
Trace
Level (dBm)
Frequency (MHz)
1715.0
1775.0


99% Bandwidth LTE_4_LCH_1720.0MHz_NTNV_QPSK_RB_100_0
ATT=30
Offset=15.48
RBW=620kHz
VBW=2MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
99%BW: 18.120MHz
Marker:
1: 1710.998 MHz
13.20dBm
2: 1729.118 MHz
10.35dBm
Trace
Level (dBm)
Frequency (MHz)
1690.0
1750.0

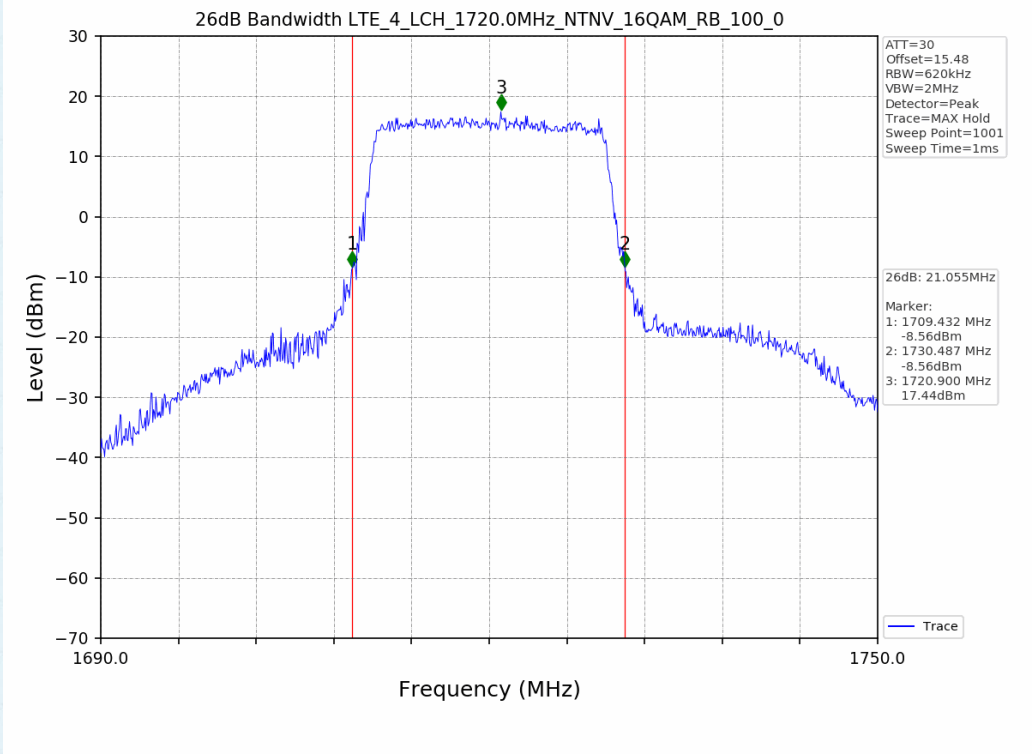


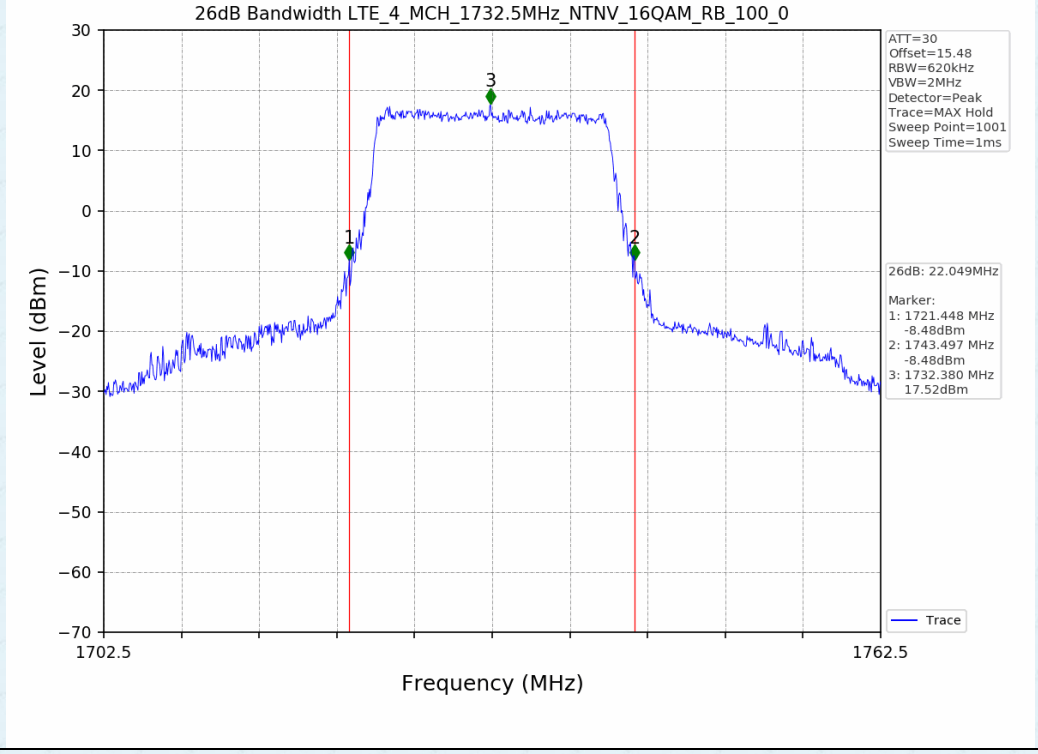


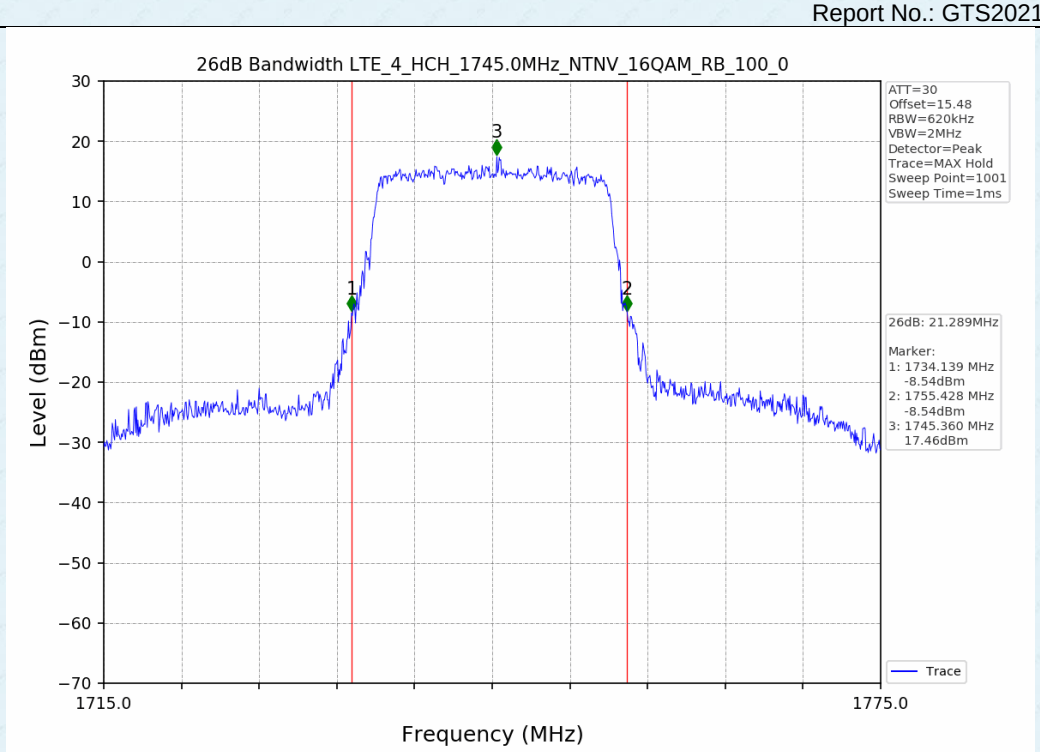
Test Band: 4 20MHz Bandwidth							
Test Mode	RB Allocation		26dB Bandwidth (MHz)			Limit	Verdict
	Size	Offset	LCH	MCH	HCH		

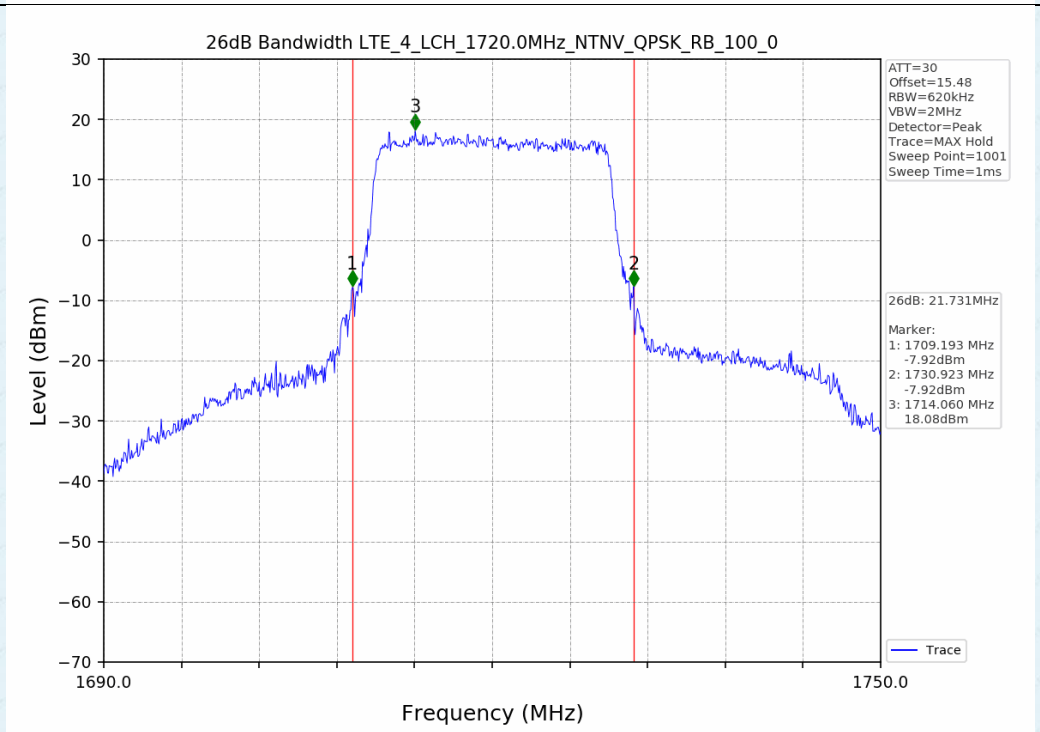
QPSK	100	0	21.731	21.613	21.510	N/A	PASS
16QAM	100	0	21.055	22.049	21.289	N/A	PASS

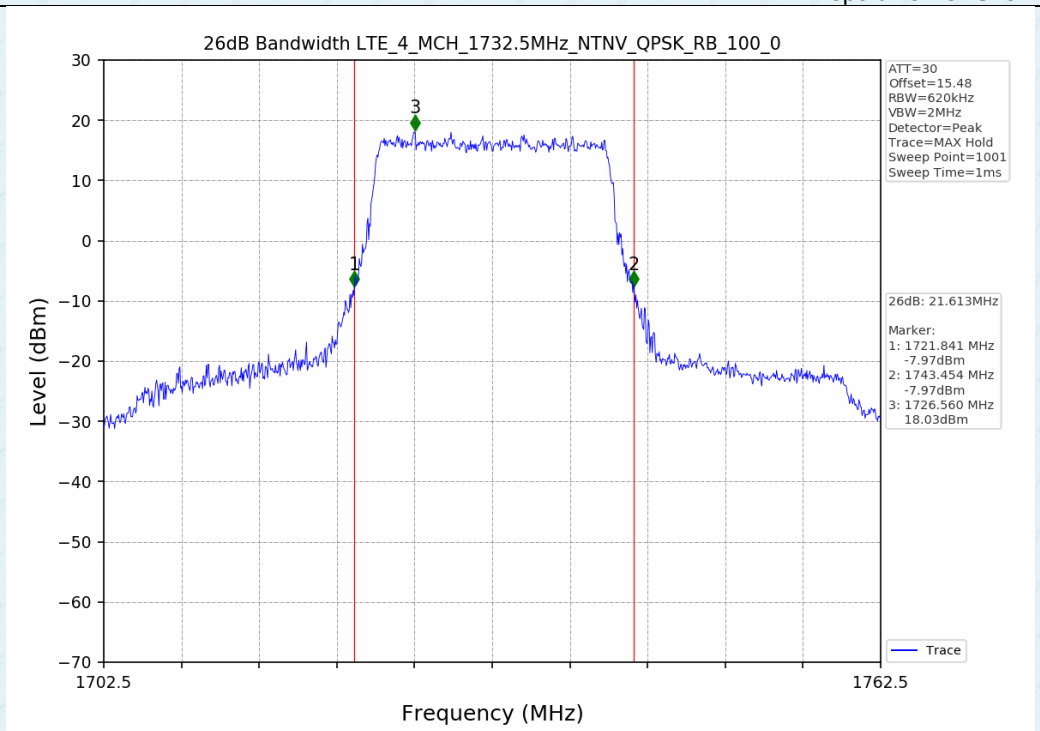
3.2 Test Graph

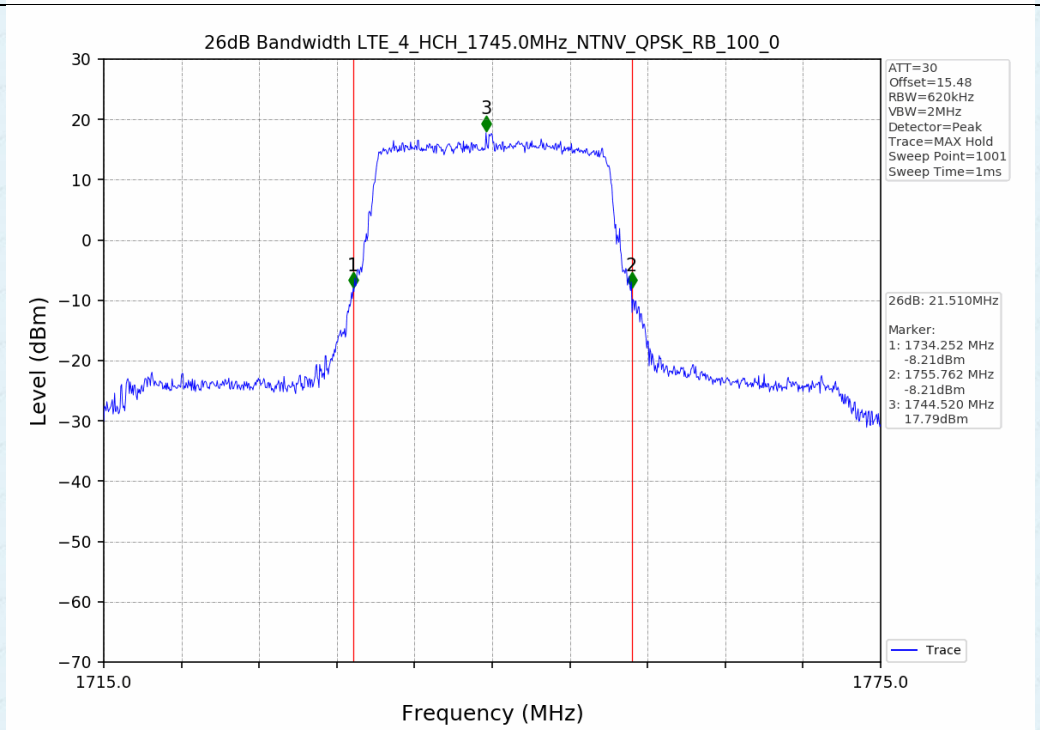





26dB Bandwidth LTE_4_HCH_1745.0MHz_NTNV_16QAM_RB_100_0
ATT=30
Offset=15.48
RBW=620kHz
VBW=2MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 21.289MHz
Marker:
1: 1734.139 MHz
-8.54dBm
2: 1755.428 MHz
-8.54dBm
3: 1745.360 MHz
17.46dBm
Trace
Level (dBm)
Frequency (MHz)
1715.0
1775.0


26dB Bandwidth LTE_4_LCH_1720.0MHz_NTNV_QPSK_RB_100_0
ATT=30
Offset=15.48
RBW=620kHz
VBW=2MHz
Detector=Peak
Trace=MAX Hold
Sweep Point=1001
Sweep Time=1ms
26dB: 21.731MHz
Marker:
1: 1709.193 MHz
-7.92dBm
2: 1730.923 MHz
-7.92dBm
3: 1714.060 MHz
18.08dBm
Trace
Level (dBm)
Frequency (MHz)
1690.0
1750.0



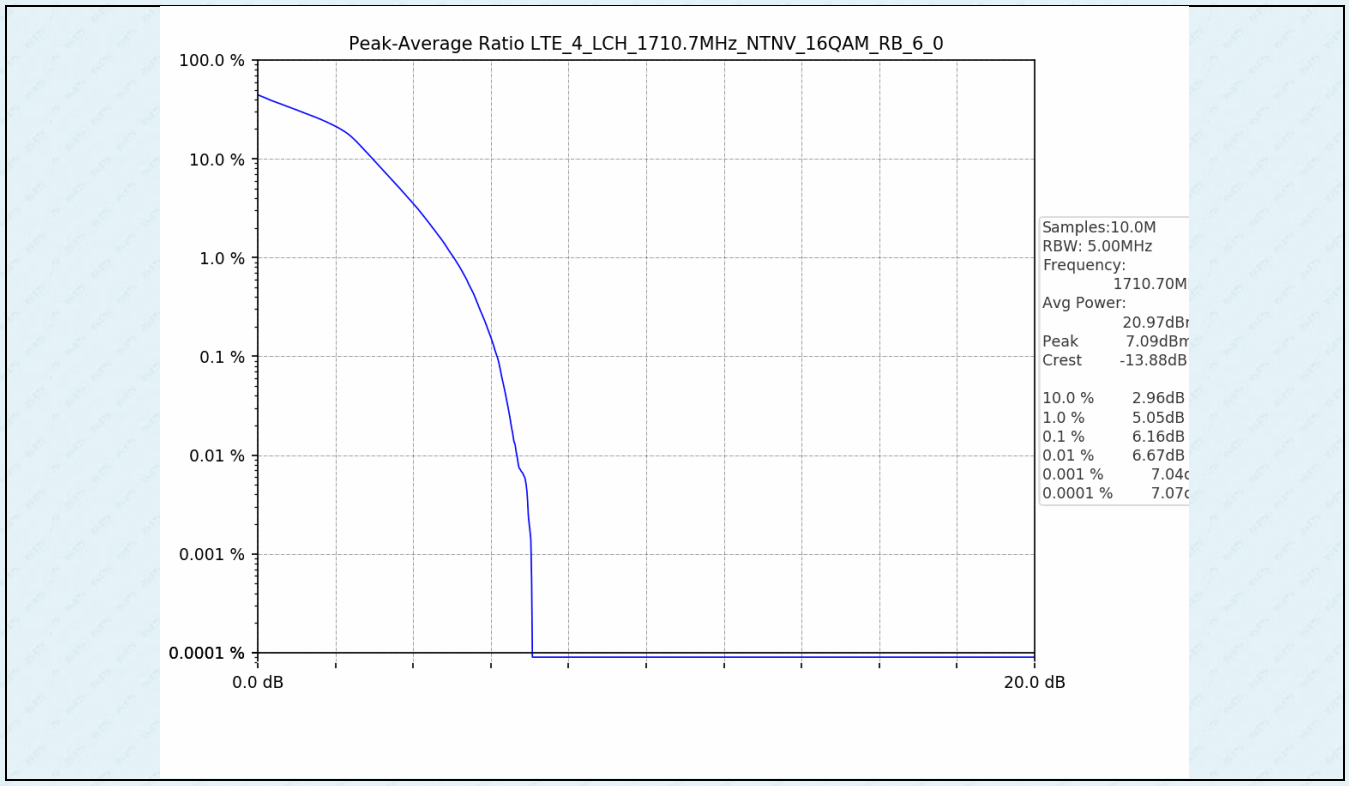


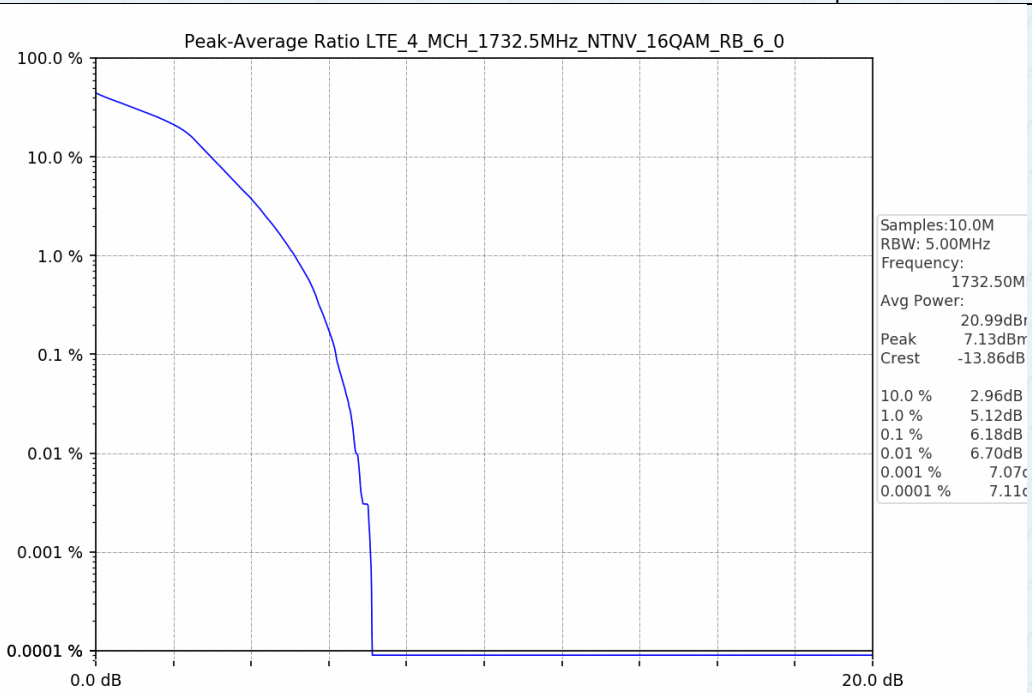
4. Peak-Average Ratio

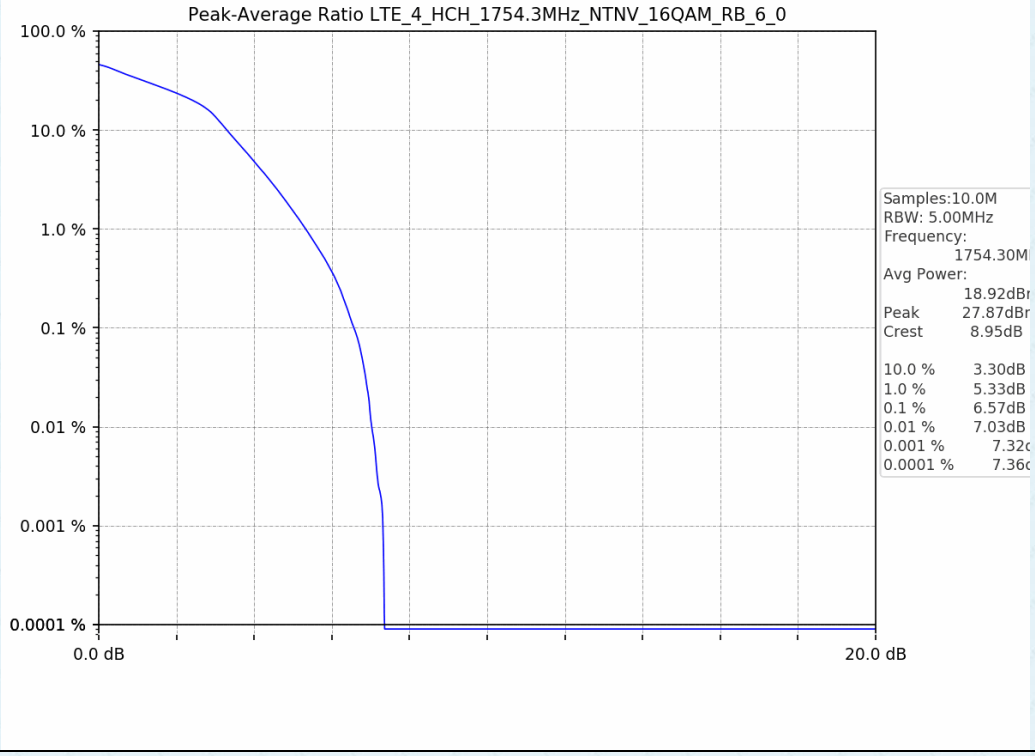
4.1 Test Result

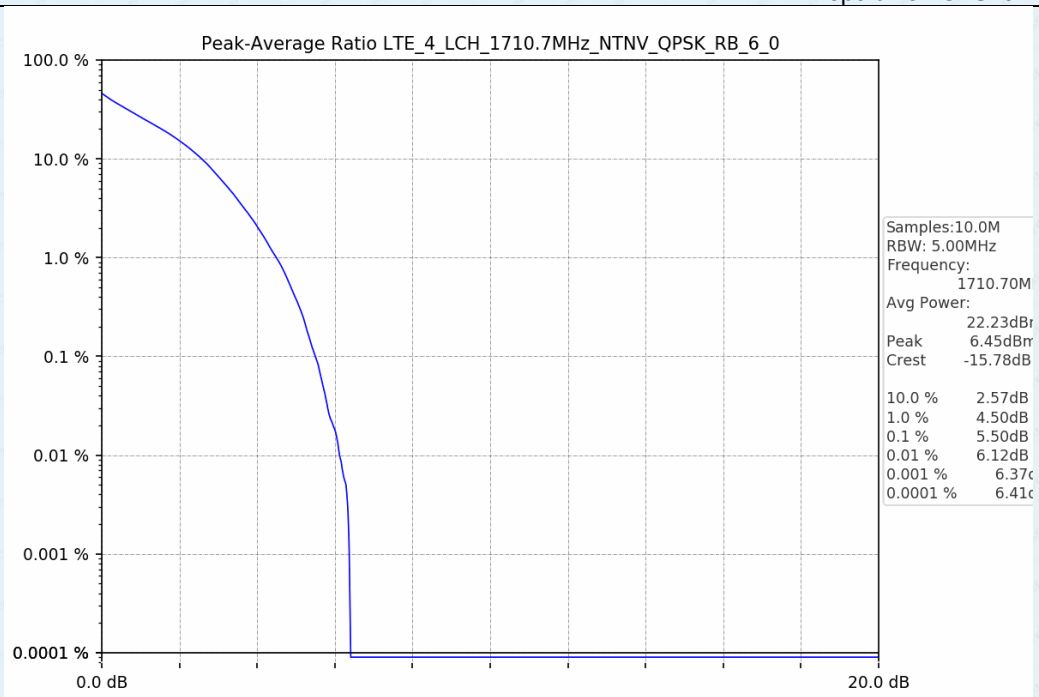
Test Band: 4 _ 1.4MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	6	0	5.50	5.59	5.36	13	PASS
16QAM	6	0	6.16	6.18	6.57	13	PASS

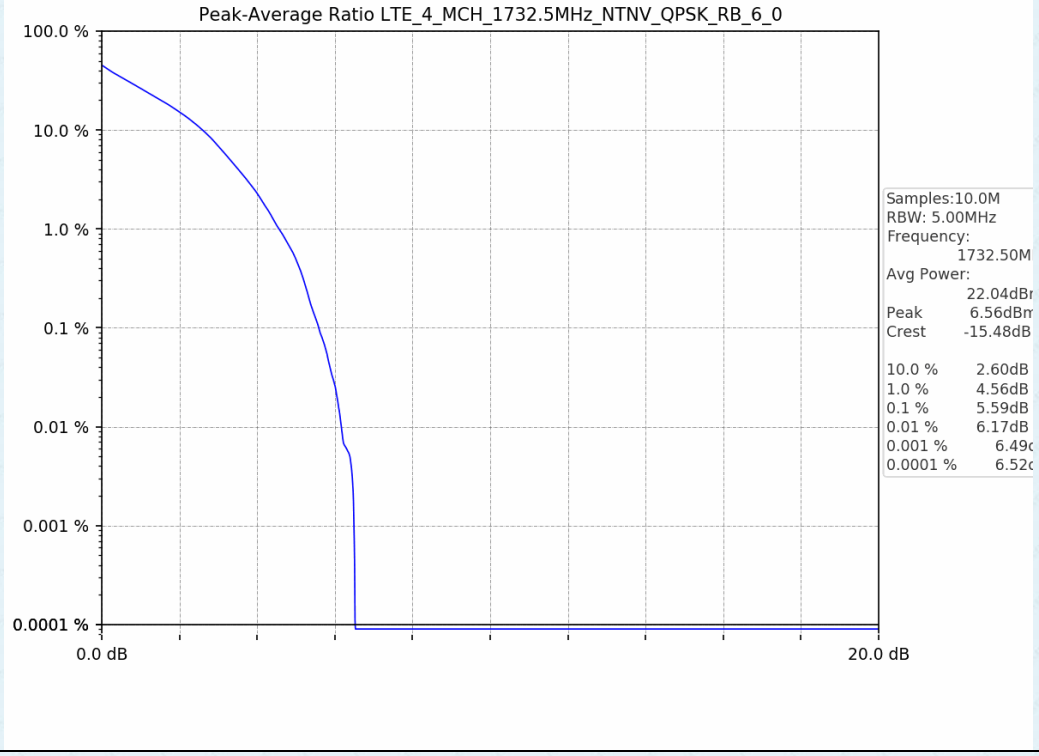
4.2 Test Graph

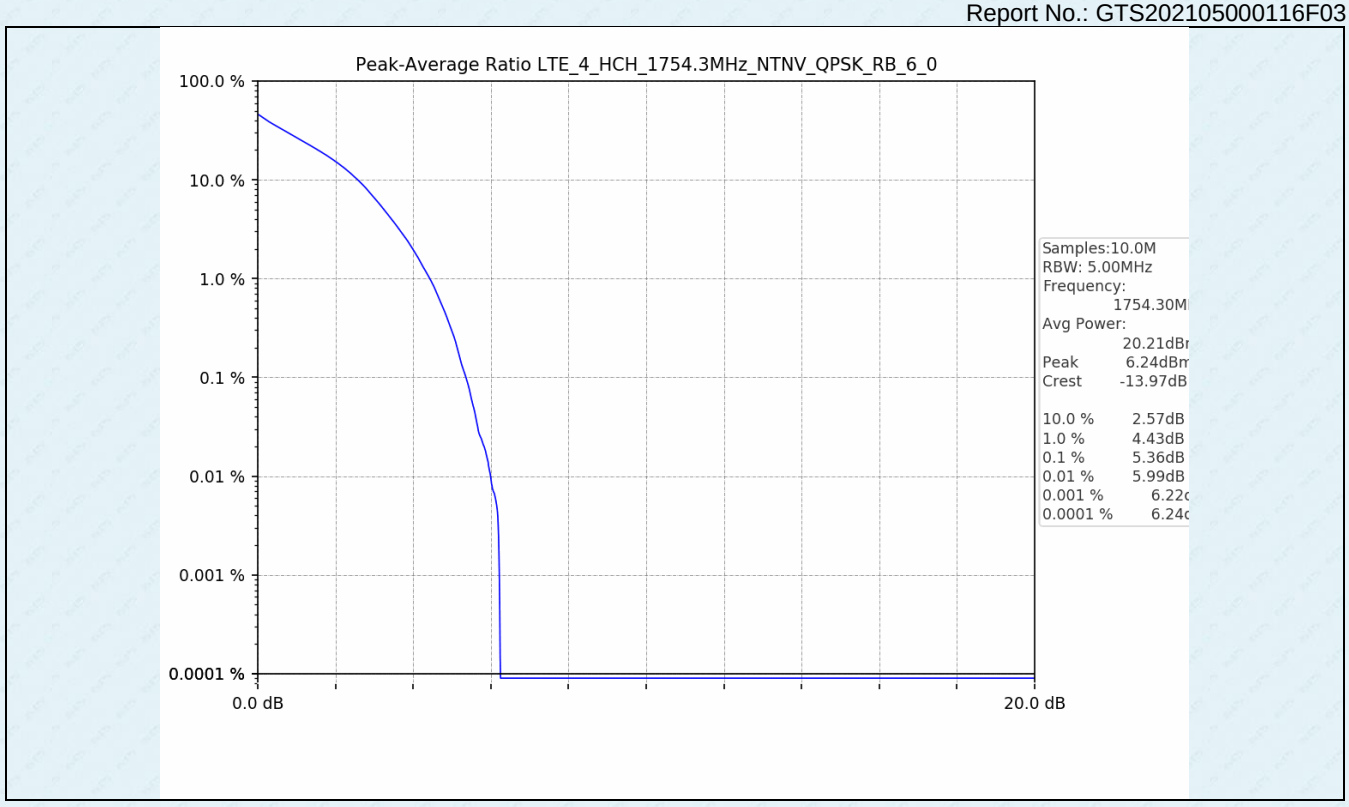



Peak-Average Ratio LTE_4_MCH_1732.5MHz_NTNV_16QAM_RB_6_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples:10.0M
RBW: 5.00MHz
Frequency:
1732.50M
Avg Power:
20.99dBr
Peak 7.13dBr
Crest -13.86dB
10.0 % 2.96dB
1.0 % 5.12dB
0.1 % 6.18dB
0.01 % 6.70dB
0.001 % 7.07
0.0001 % 7.11


Peak-Average Ratio LTE_4_HCH_1754.3MHz_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: 5.00MHz
Frequency:
1754.30M
Avg Power:
18.92dBr
Peak 27.87dBr
Crest 8.95dB
10.0 % 3.30dB
1.0 % 5.33dB
0.1 % 6.57dB
0.01 % 7.03dB
0.001 % 7.32
0.0001 % 7.36

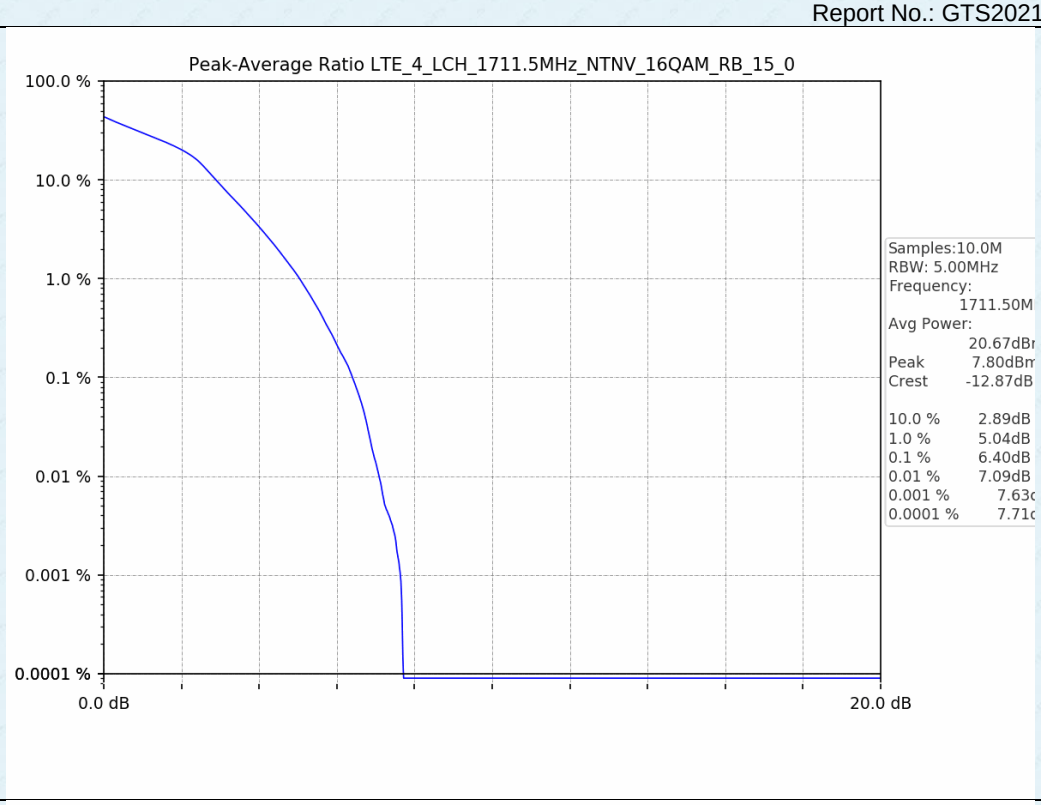

Peak-Average Ratio LTE_4_LCH_1710.7MHz_NTNV_QPSK_RB_6_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples:10.0M
RBW: 5.00MHz
Frequency:
1710.70M
Avg Power:
22.23dBr
Peak 6.45dBr
Crest -15.78dB
10.0 % 2.57dB
1.0 % 4.50dB
0.1 % 5.50dB
0.01 % 6.12dB
0.001 % 6.37
0.0001 % 6.41

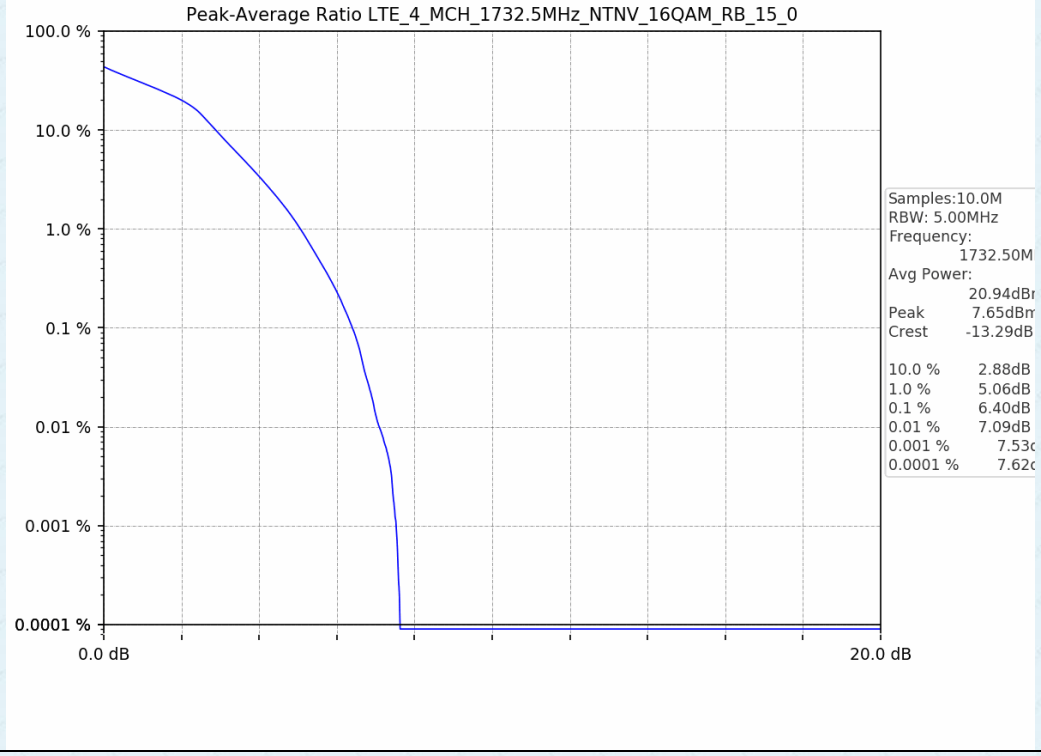

Peak-Average Ratio LTE_4_MCH_1732.5MHz_NTNV_QPSK_RB_6_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples:10.0M
RBW: 5.00MHz
Frequency:
1732.50M
Avg Power:
22.04dBr
Peak 6.56dBr
Crest -15.48dB
10.0 % 2.60dB
1.0 % 4.56dB
0.1 % 5.59dB
0.01 % 6.17dB
0.001 % 6.49
0.0001 % 6.52

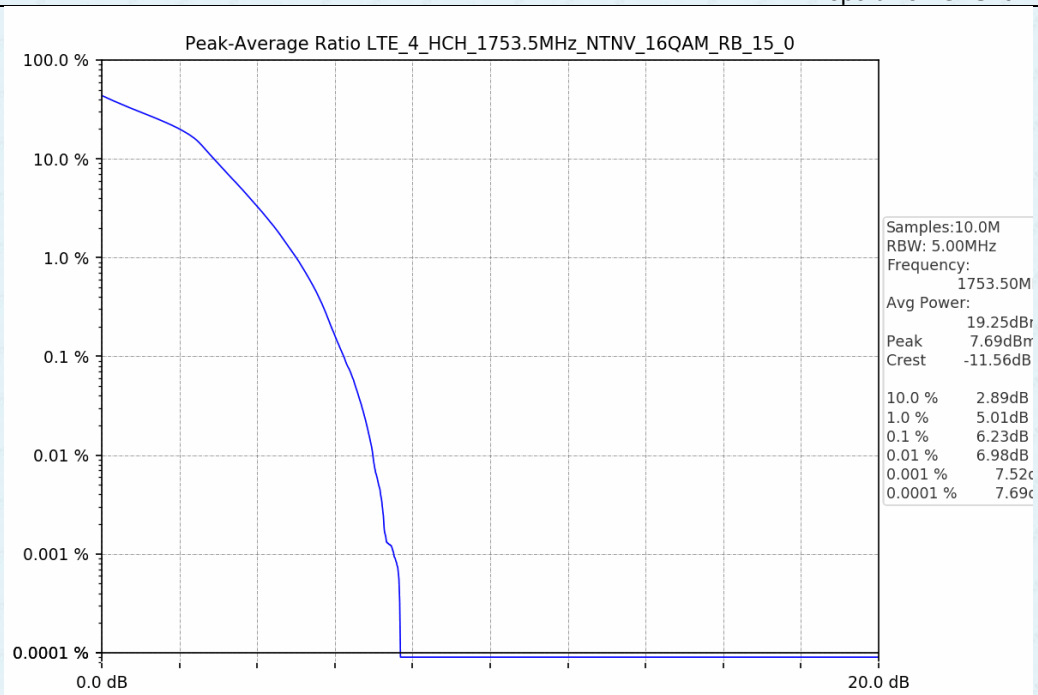


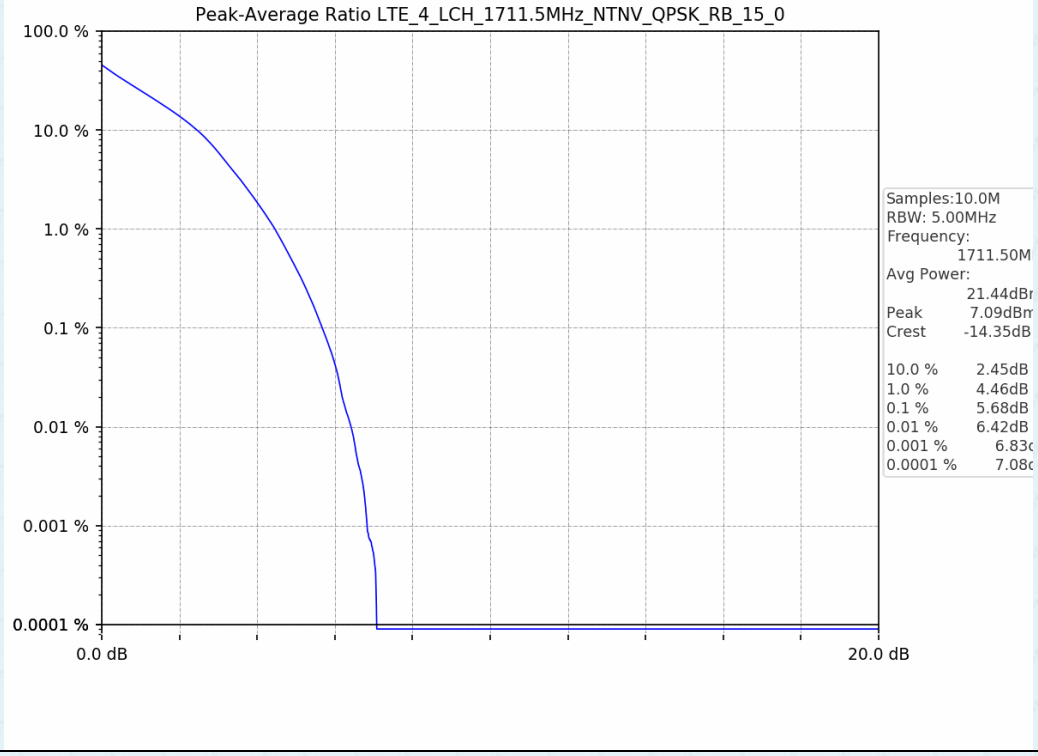
Test Band: 4 _ 3MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		
QPSK	15	0	5.68	6.88	5.53	13	PASS
16QAM	15	0	6.40	6.40	6.23	13	PASS

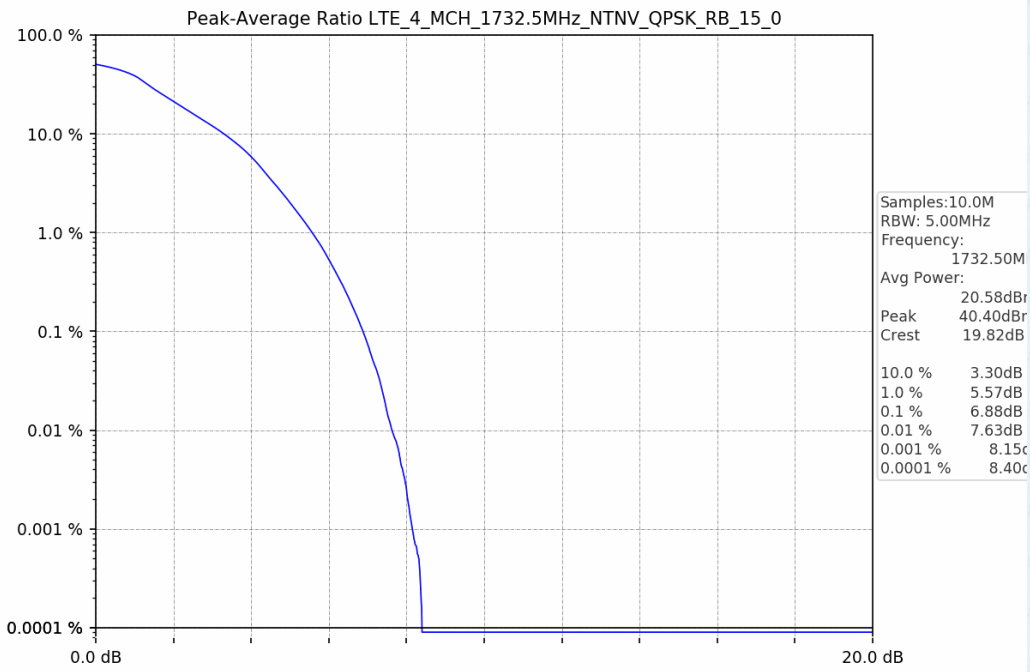
4.2 Test Graph

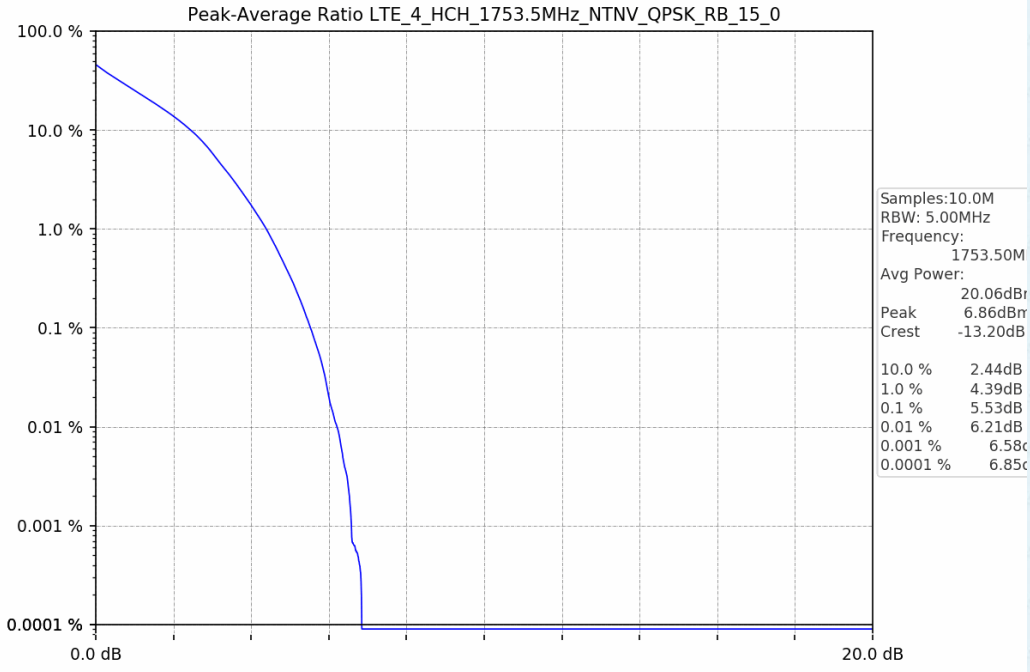

Peak-Average Ratio LTE_4_LCH_1711.5MHz_NTNV_16QAM_RB_15_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples:10.0M
RBW: 5.00MHz
Frequency:
1711.50M
Avg Power:
20.67dBr
Peak 7.80dBr
Crest -12.87dB
10.0 % 2.89dB
1.0 % 5.04dB
0.1 % 6.40dB
0.01 % 7.09dB
0.001 % 7.63
0.0001 % 7.71


Peak-Average Ratio LTE_4_MCH_1732.5MHz_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: 5.00MHz
Frequency:
1732.50M
Avg Power:
20.94dBr
Peak 7.65dBr
Crest -13.29dB
10.0 % 2.88dB
1.0 % 5.06dB
0.1 % 6.40dB
0.01 % 7.09dB
0.001 % 7.53
0.0001 % 7.62


Peak-Average Ratio LTE_4_HCH_1753.5MHz_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: 5.00MHz
Frequency:
1753.50M
Avg Power:
19.25dBr
Peak 7.69dBr
Crest -11.56dB
10.0 % 2.89dB
1.0 % 5.01dB
0.1 % 6.23dB
0.01 % 6.98dB
0.001 % 7.52
0.0001 % 7.69


Peak-Average Ratio LTE_4_LCH_1711.5MHz_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: 5.00MHz
Frequency:
1711.50M
Avg Power:
21.44dBr
Peak 7.09dBr
Crest -14.35dB
10.0 % 2.45dB
1.0 % 4.46dB
0.1 % 5.68dB
0.01 % 6.42dB
0.001 % 6.83
0.0001 % 7.08

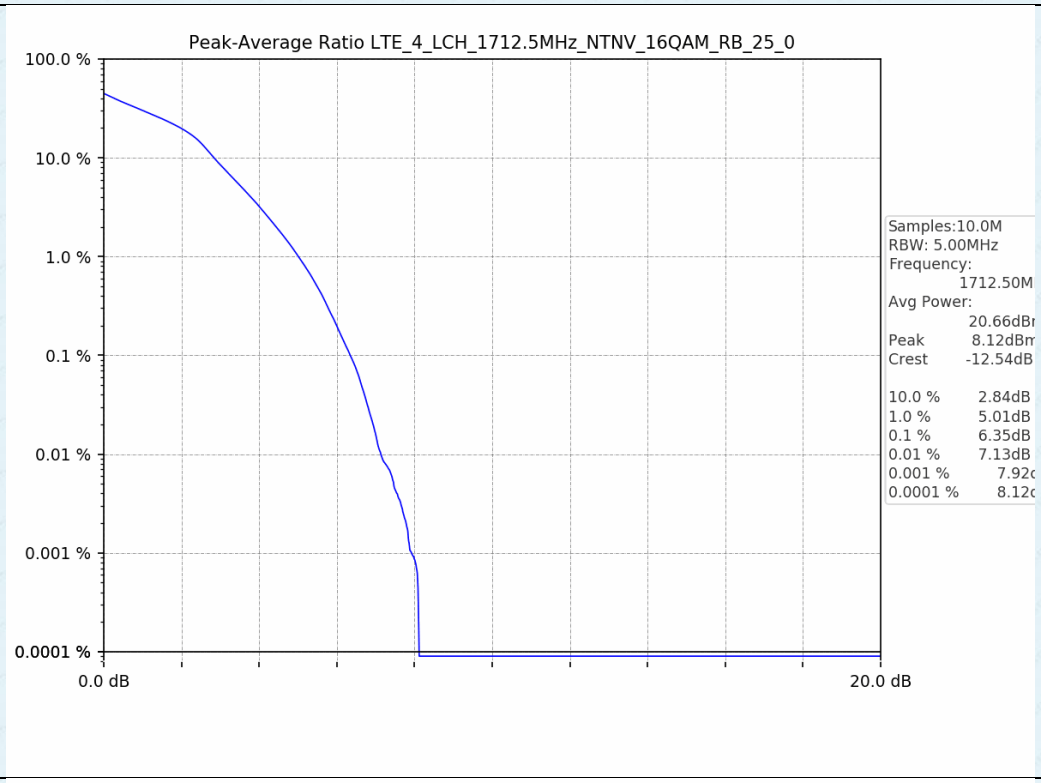


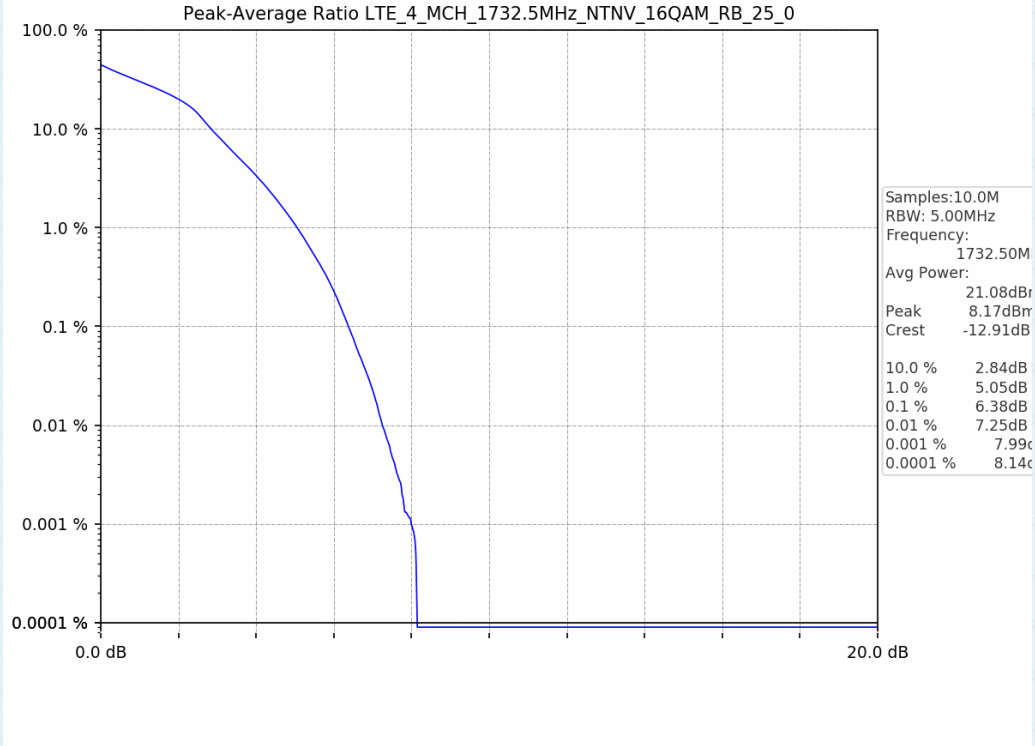


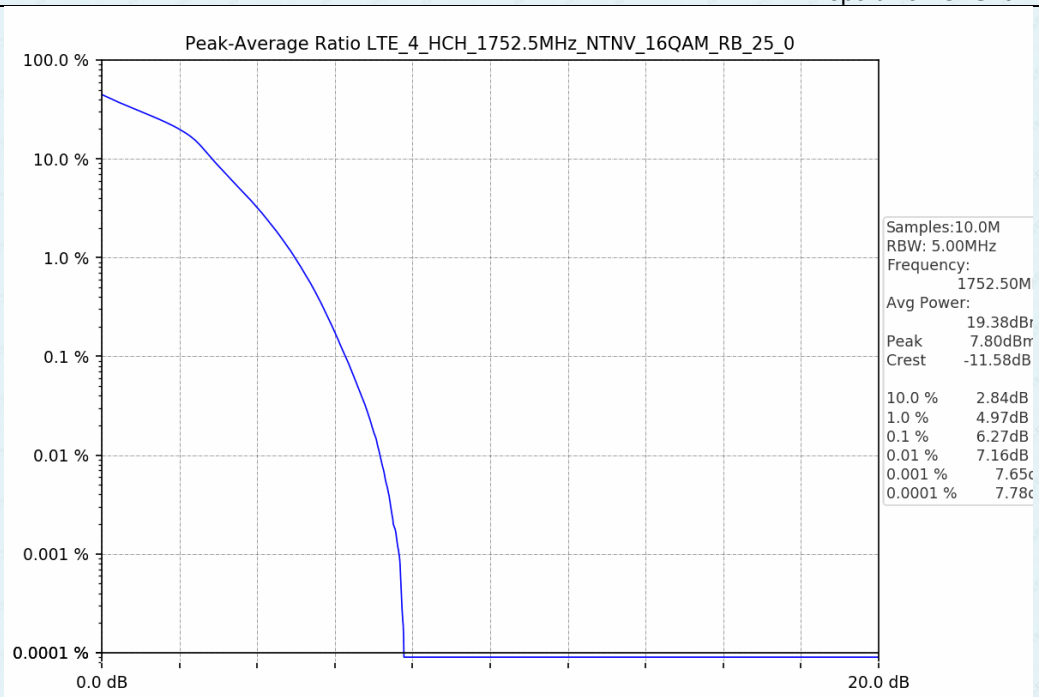
Test Band: 4 _ 5MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		

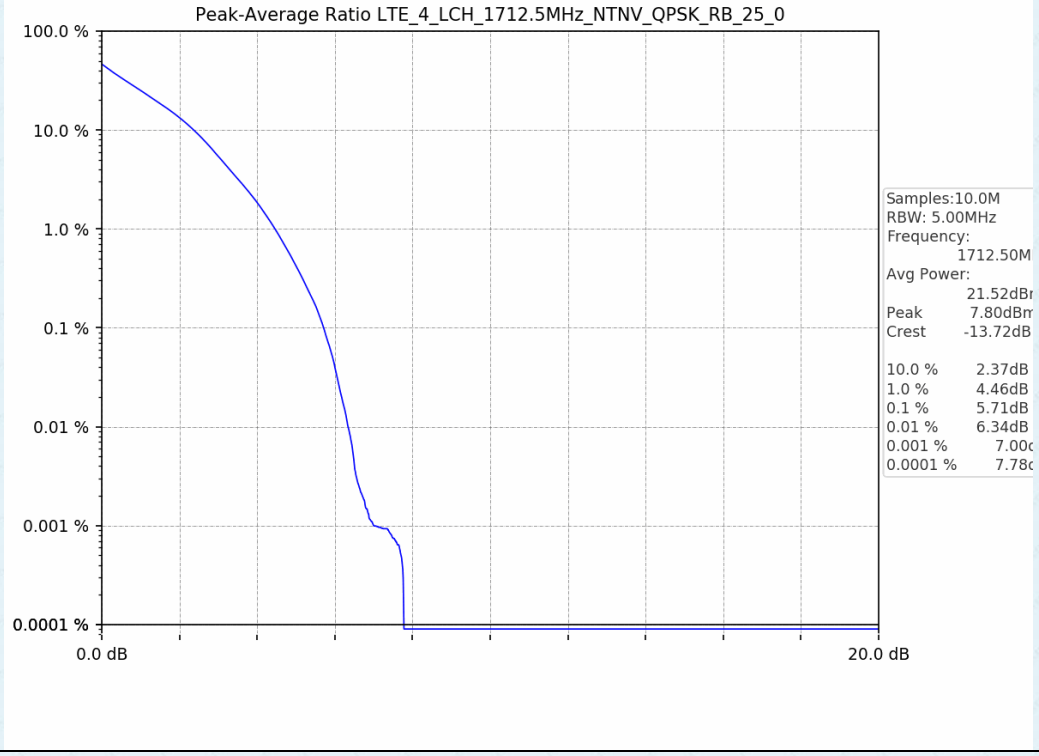
QPSK	25	0	5.71	5.77	5.64	13	PASS
16QAM	25	0	6.35	6.38	6.27	13	PASS

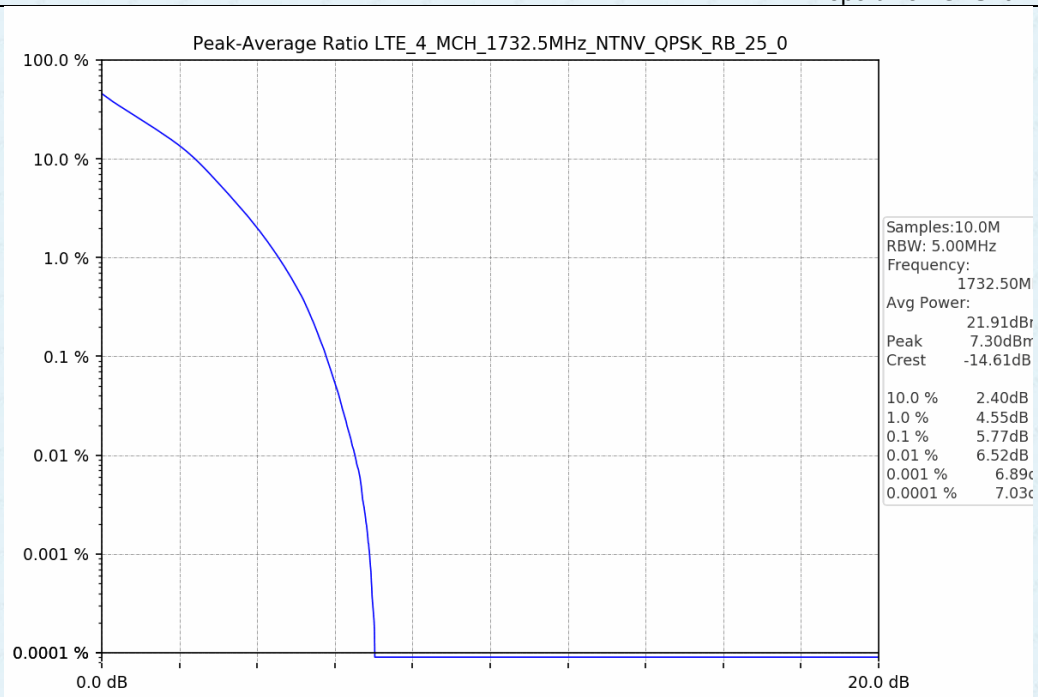
4.2 Test Graph

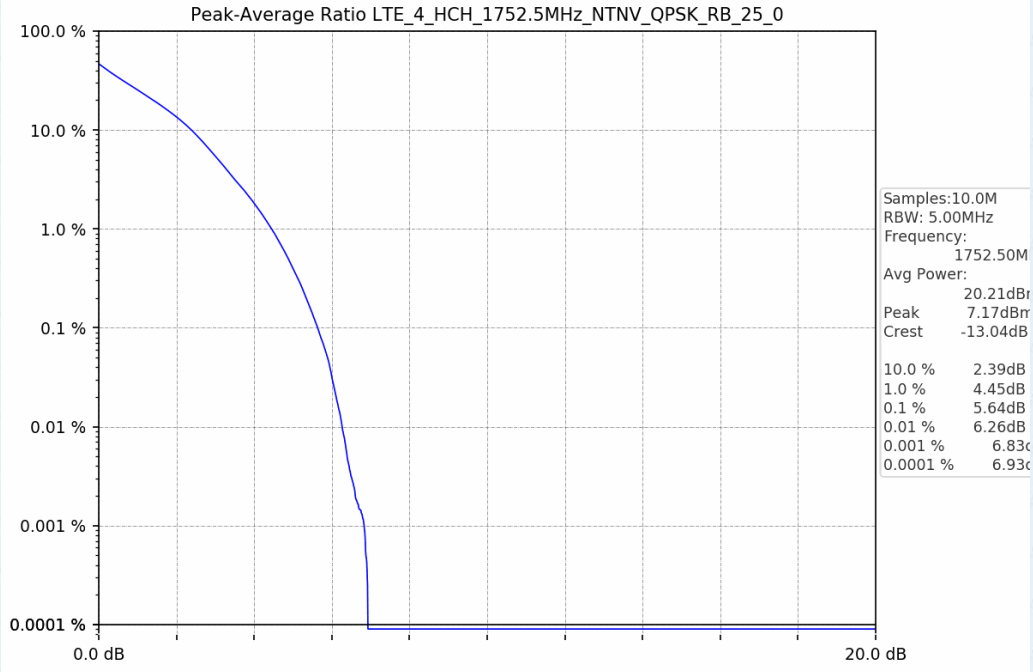





Peak-Average Ratio LTE_4_HCH_1752.5MHz_NTNV_16QAM_RB_25_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples:10.0M
RBW: 5.00MHz
Frequency:
1752.50M
Avg Power:
19.38dBr
Peak 7.80dBr
Crest -11.58dB
10.0 % 2.84dB
1.0 % 4.97dB
0.1 % 6.27dB
0.01 % 7.16dB
0.001 % 7.65
0.0001 % 7.78


Peak-Average Ratio LTE_4_LCH_1712.5MHz_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: 5.00MHz
Frequency:
1712.50M
Avg Power:
21.52dBr
Peak 7.80dBr
Crest -13.72dB
10.0 % 2.37dB
1.0 % 4.46dB
0.1 % 5.71dB
0.01 % 6.34dB
0.001 % 7.00
0.0001 % 7.78

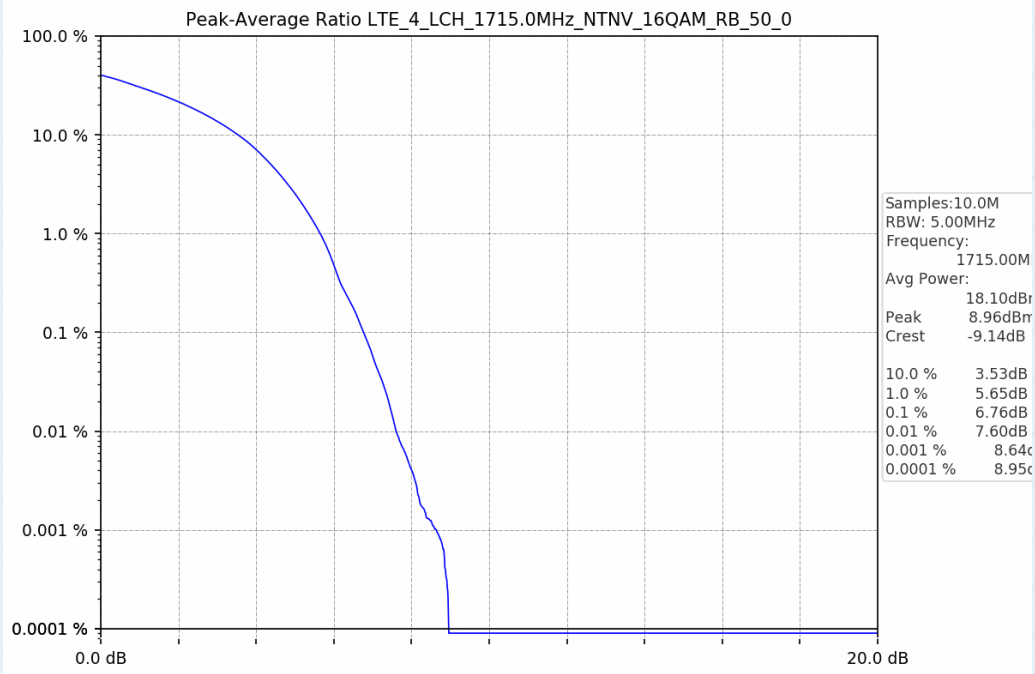


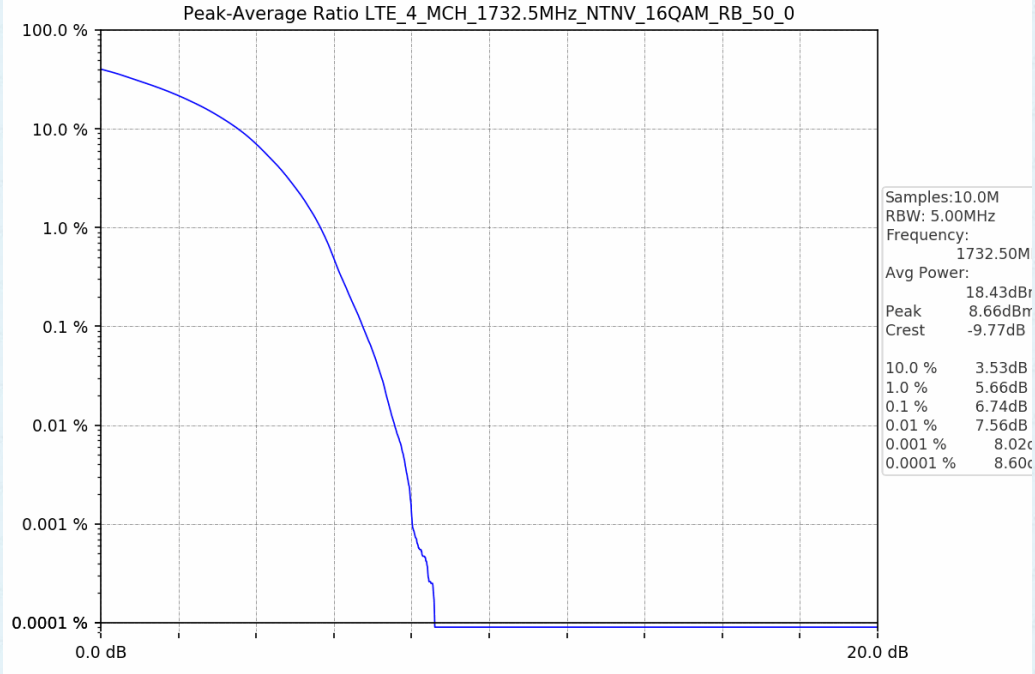


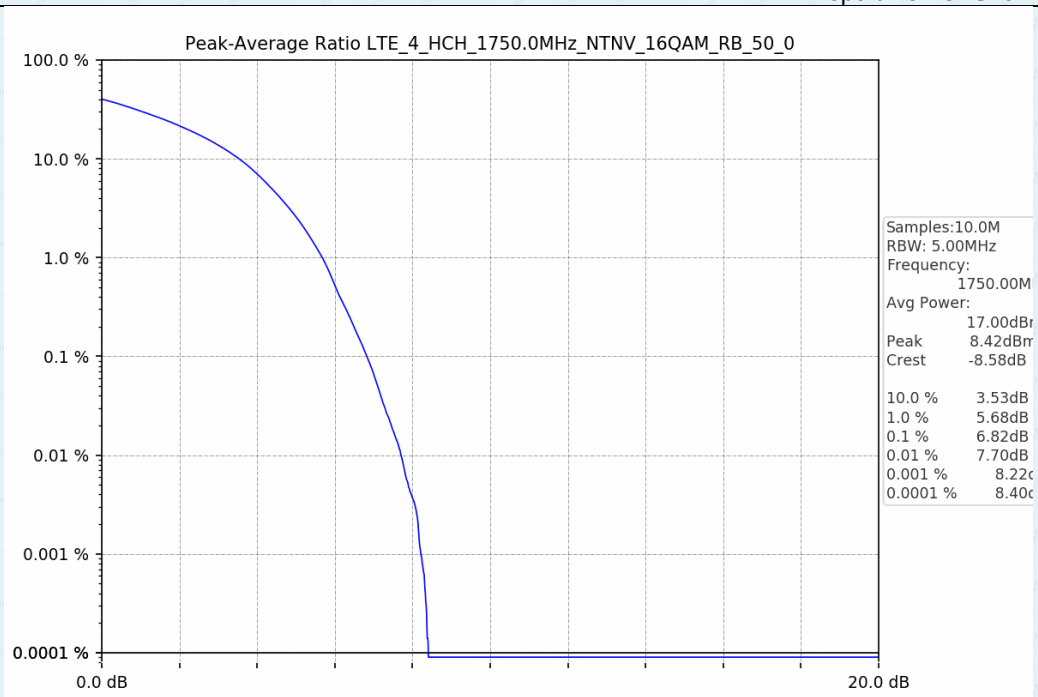
Test Band: 4 _ 10MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		

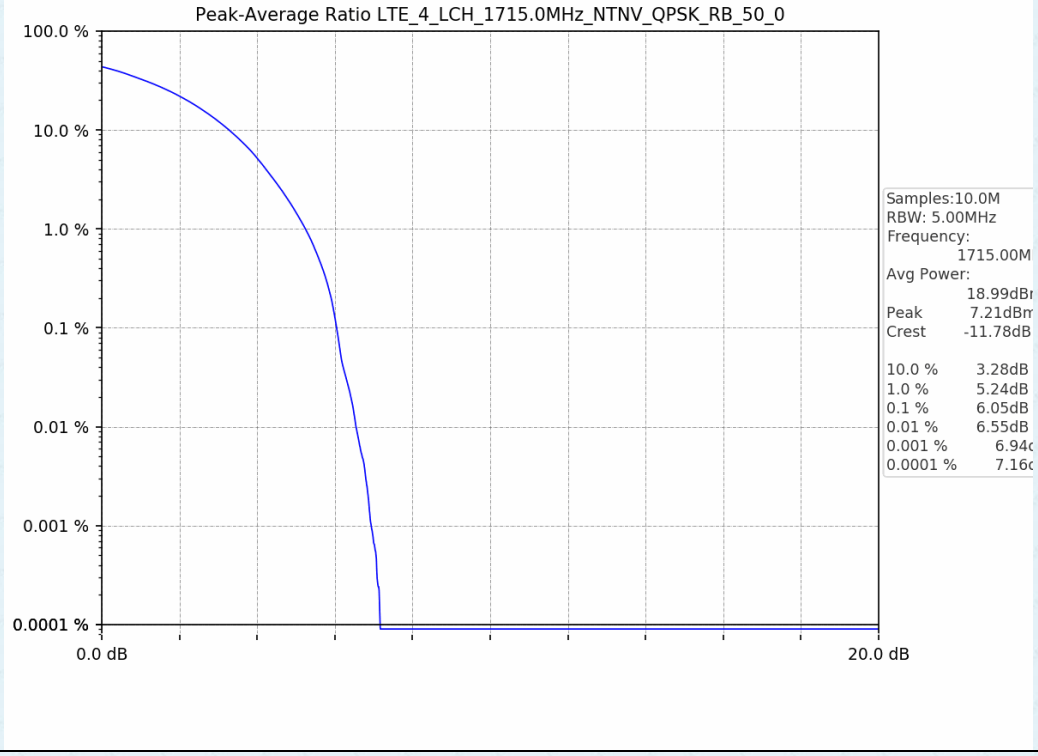
QPSK	50	0	6.05	6.06	6.00	13	PASS
16QAM	50	0	6.76	6.74	6.82	13	PASS

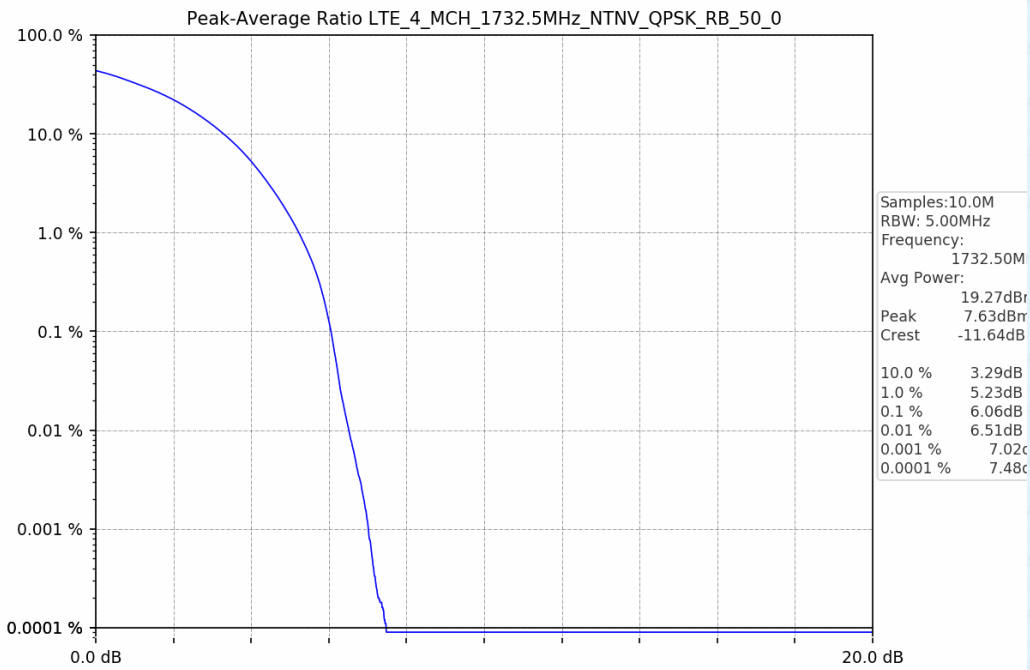
4.2 Test Graph

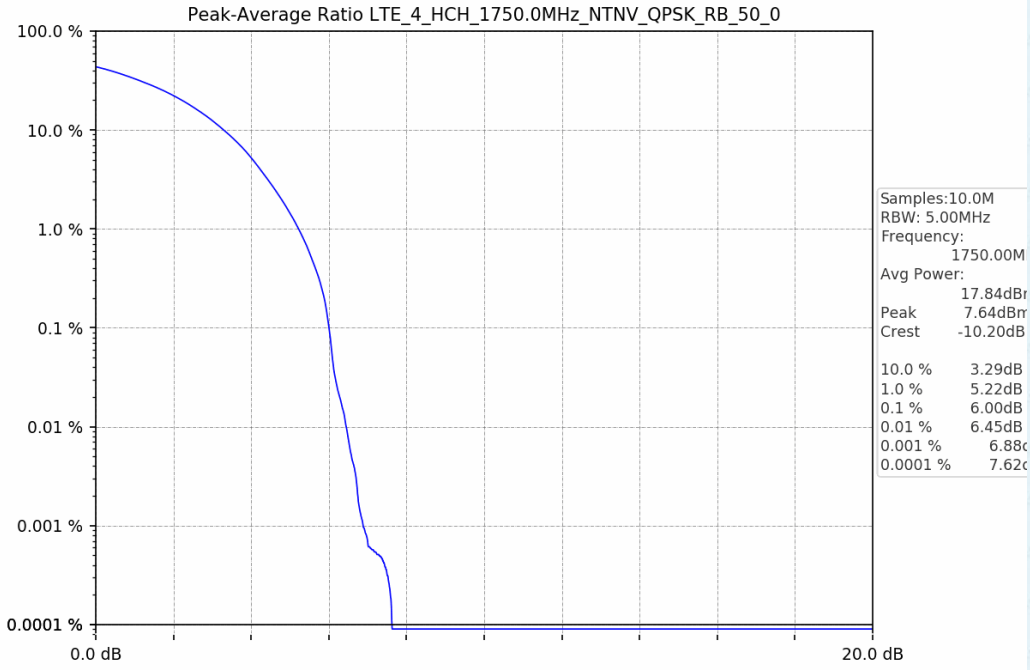





Peak-Average Ratio LTE_4_HCH_1750.0MHz_NTNV_16QAM_RB_50_0
100.0 %
10.0 %
1.0 %
0.1 %
0.01 %
0.001 %
0.0001 %
0.0 dB
20.0 dB
Samples:10.0M
RBW: 5.00MHz
Frequency:
1750.00M
Avg Power:
17.00dBr
Peak 8.42dBr
Crest -8.58dB
10.0 % 3.53dB
1.0 % 5.68dB
0.1 % 6.82dB
0.01 % 7.70dB
0.001 % 8.22
0.0001 % 8.40


Peak-Average Ratio LTE_4_LCH_1715.0MHz_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: 5.00MHz
Frequency:
1715.00M
Avg Power:
18.99dBr
Peak 7.21dBr
Crest -11.78dB
10.0 % 3.28dB
1.0 % 5.24dB
0.1 % 6.05dB
0.01 % 6.55dB
0.001 % 6.94
0.0001 % 7.16





Test Band: 4 _ 15MHz Bandwidth							
Test Mode	RB Allocation		Test result (dB)			Limit (dB)	Verdict
	Size	Offset	LCH	MCH	HCH		