

Fig.13

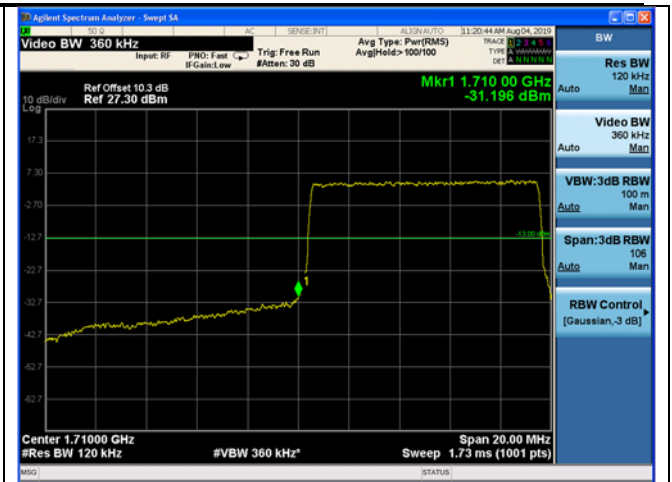


Fig.14



Fig.15



Fig.16

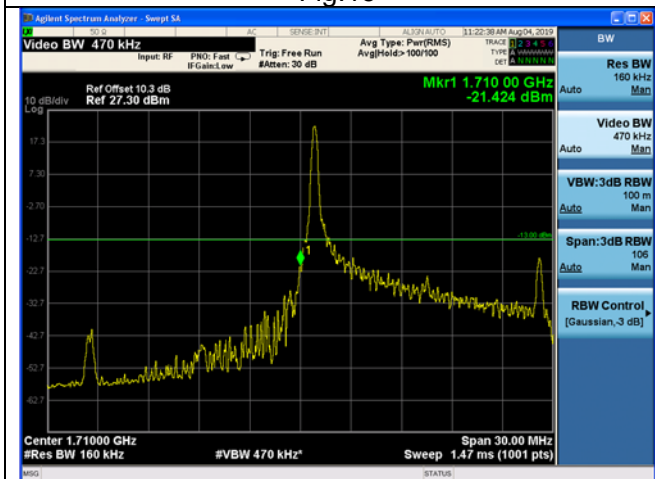


Fig.17

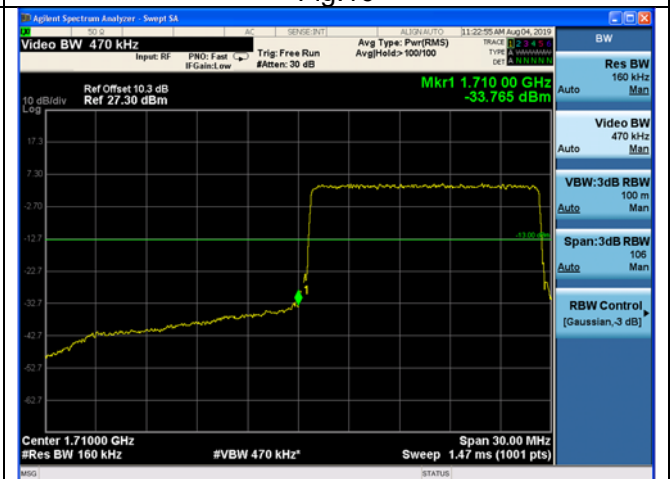


Fig.18

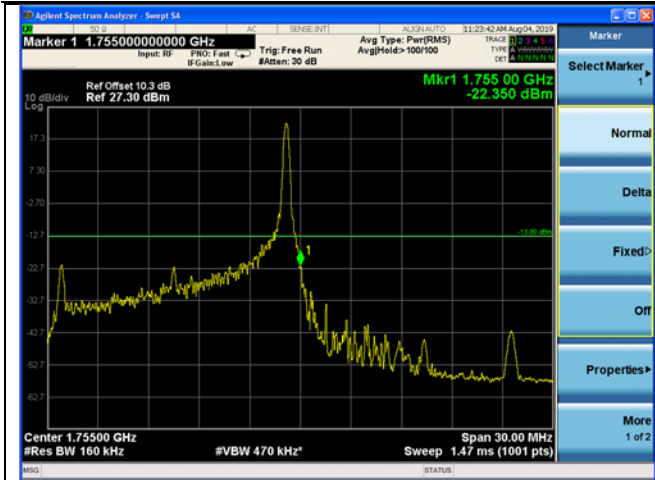


Fig.19

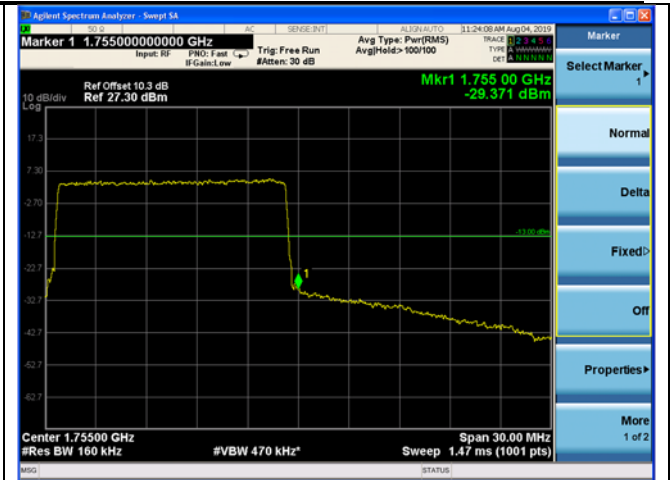


Fig.20

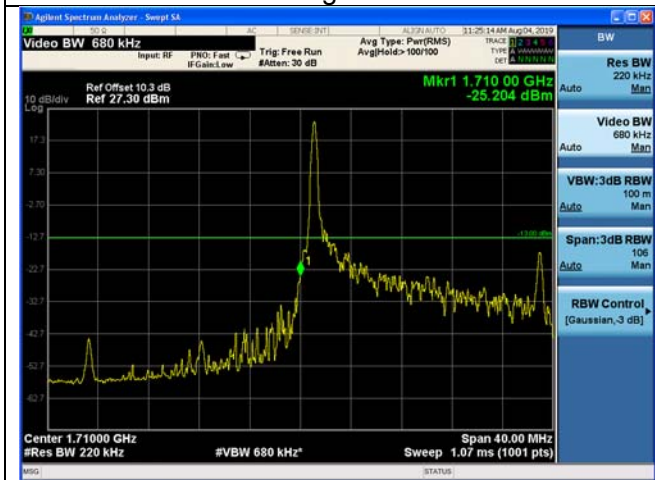


Fig.21

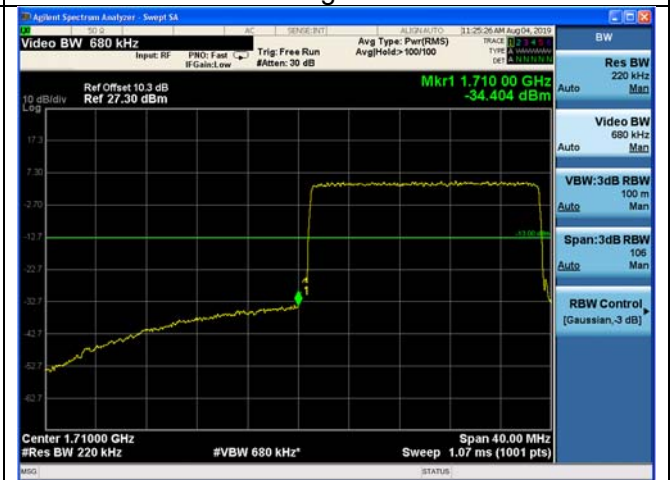


Fig.22

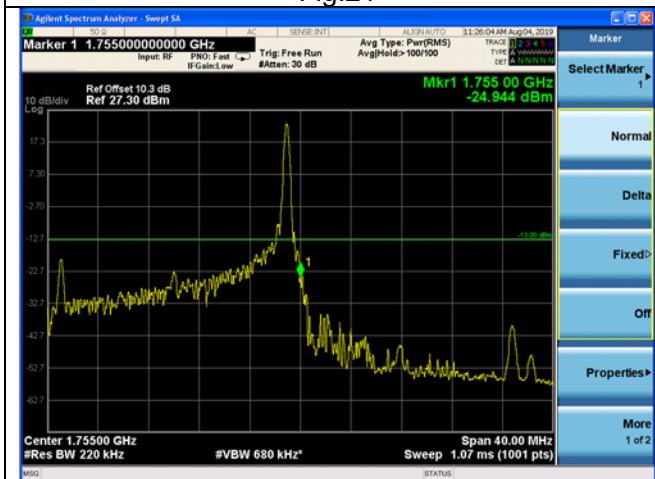


Fig.23

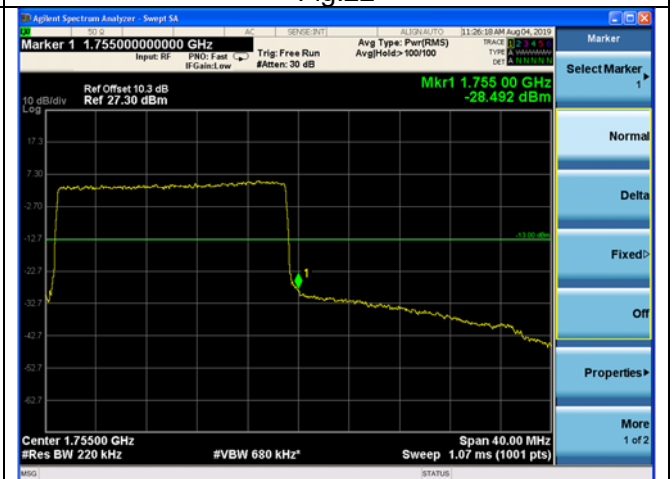


Fig.24

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band4 Low Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.012	-0.002	0.029	0.005	0.017	0.155
0	NV	0.043	0.014	0.005	0.036	0.102	0.101
+10	NV	0.027	-0.022	0.022	0.048	0.015	-0.074
+20	NV	-0.013	0.006	0.100	-0.033	0.043	0.056
+30	NV	0.034	0.004	0.107	0.013	0.007	0.017
40	NV	0.025	-0.033	0.025	-0.102	0.027	-0.094
+50	NV	0.064	0.015	0.032	0.023	0.045	0.075
+55	NV	0.041	0.006	0.110	-0.043	0.075	0.023
+20	LV	0.049	-0.024	0.035	0.012	0.007	0.055
+20	HV	0.020	0.015	0.064	0.023	0.035	-0.103

Temperature(°C)	Voltage	Test Result (ppm) Band4 High Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.037	0.043	0.006	0.073	0.023	0.151
0	NV	0.041	0.046	-0.075	0.114	0.036	0.113
+10	NV	0.012	0.102	0.078	0.073	0.048	-0.031
+20	NV	0.016	-0.088	-0.064	0.104	-0.103	0.110
+30	NV	0.119	0.016	0.127	0.042	0.022	0.155
+40	NV	0.024	0.036	-0.136	0.062	0.008	0.053
+50	NV	0.080	-0.044	0.050	0.043	0.033	-0.086
+55	NV	0.043	0.016	0.140	0.053	0.075	0.015
+20	LV	-0.064	0.045	0.042	-0.092	0.096	0.142
+20	HV	0.016	0.008	0.140	0.037	-0.002	0.003

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	824.7	20407	1.4	1	0	23.78
				1	5	23.78
				3	2	23.74
				6	0	22.79
	836.5	20525		1	0	23.86
				1	5	23.86
				3	2	23.84
				6	0	22.75
	848.3	20643		1	0	23.64
				1	5	23.64
				3	2	23.78
				6	0	22.75
16QAM	824.7	20407	1.4	1	0	23.56
				1	5	23.56
				3	2	23.26
				6	0	21.54
	836.5	20525		1	0	23.58
				1	5	23.58
				3	2	23.21
				6	0	21.63
	848.3	20643		1	0	22.97
				1	5	22.97
				3	2	22.86
				6	0	21.56
64QAM	824.7	20407	1.4	1	0	22.88
				1	5	22.71
				3	2	21.88
				6	0	21.53
	836.5	20525		1	0	22.69
				1	5	22.92
				3	2	21.67
				6	0	21.86
	848.3	20643		1	0	22.74
				1	5	22.65
				3	2	21.70
				6	0	21.78

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.93
				1	14	23.93
				8	4	22.78
				15	0	22.77
	836.5	20525		1	0	23.96
				1	14	23.96
				8	4	22.73
				15	0	22.74
	847.5	20635		1	0	23.85
				1	14	23.85
				8	4	22.71
				15	0	22.70
16QAM	825.5	20415	3	1	0	23.19
				1	14	23.19
				8	4	21.85
				15	0	21.98
	836.5	20525		1	0	23.46
				1	14	23.46
				8	4	22.04
				15	0	21.98
	847.5	20635		1	0	23.95
				1	14	23.95
				8	4	21.82
				15	0	21.78
64QAM	825.5	20415	3	1	0	22.71
				1	14	22.76
				8	4	21.62
				15	0	21.57
	836.5	20525		1	0	22.90
				1	14	22.90
				8	4	21.87
				15	0	21.76
	847.5	20635		1	0	22.66
				1	14	22.70
				8	4	21.67
				15	0	21.64

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.78
				1	24	23.78
				12	6	22.75
				25	0	22.73
	836.5	20525		1	0	23.84
				1	24	23.84
				12	6	22.83
				25	0	22.74
	846.5	20625		1	0	23.86
				1	24	23.86
				12	6	22.64
				25	0	22.63
16QAM	826.5	20425	5	1	0	23.84
				1	24	23.84
				12	6	21.73
				25	0	21.76
	836.5	20525		1	0	23.05
				1	24	23.05
				12	6	21.96
				25	0	21.87
	846.5	20625		1	0	23.12
				1	24	23.12
				12	6	21.85
				25	0	21.69
64QAM	826.5	20425	5	1	0	22.97
				1	24	22.78
				12	6	21.70
				25	0	21.56
	836.5	20525		1	0	22.81
				1	24	22.90
				12	6	21.81
				25	0	21.65
	846.5	20625		1	0	22.61
				1	24	22.77
				12	6	21.61
				25	0	21.59

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.86
				1	49	23.86
				24	12	22.74
				50	0	22.79
	836.5	20525		1	0	23.98
				1	49	23.98
				24	12	22.84
				50	0	22.78
	844	20600		1	0	23.98
				1	49	23.98
				24	12	22.73
				50	0	22.73
16QAM	829	20450	10	1	0	22.64
				1	49	22.64
				24	12	21.93
				50	0	21.78
	836.5	20525		1	0	23.64
				1	49	23.64
				24	12	21.92
				50	0	21.80
	844	20600		1	0	22.63
				1	49	22.63
				24	12	21.87
				50	0	21.72
64QAM	829	20450	10	1	0	22.97
				1	49	22.87
				24	12	21.90
				50	0	21.80
	836.5	20525		1	0	22.98
				1	49	22.95
				24	12	21.97
				50	0	21.81
	844	20600		1	0	22.91
				1	49	22.93
				24	12	21.91
				50	0	21.75

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
5	824.7	20407	1.4	6	0	1.07	Fig.1	1.07	Fig.2	1.07	Fig.3
	836.5	20525		6	0	1.07	Fig.4	1.08	Fig.5	1.08	Fig.6
	848.3	20643		6	0	1.08	Fig.7	1.08	Fig.8	1.08	Fig.9
	825.5	20415	3	15	0	2.69	Fig.10	2.68	Fig.11	2.68	Fig.12
	836.5	20525		15	0	2.69	Fig.13	2.68	Fig.14	2.70	Fig.15
	847.5	20635		15	0	2.69	Fig.16	2.69	Fig.17	2.69	Fig.18
	826.5	20425	5	25	0	4.48	Fig.19	4.47	Fig.20	4.45	Fig.21
	836.5	20525		25	0	4.47	Fig.22	4.45	Fig.23	4.45	Fig.24
	846.5	20625		25	0	4.47	Fig.25	4.46	Fig.26	4.45	Fig.27
	829	20450	10	50	0	9.03	Fig.28	9.01	Fig.29	9.02	Fig.30
	836.5	20525		50	0	9.01	Fig.31	9.01	Fig.32	8.96	Fig.33
	844	20600		50	0	9.00	Fig.34	9.05	Fig.35	9.03	Fig.36

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
5	824.7	20407	1.4	6	0	1.21	Fig.1	1.21	Fig.2	1.22	Fig.3
	836.5	20525		6	0	1.22	Fig.4	1.22	Fig.5	1.22	Fig.6
	848.3	20643		6	0	1.21	Fig.7	1.22	Fig.8	1.21	Fig.9
	825.5	20415	3	15	0	2.96	Fig.10	2.92	Fig.11	2.93	Fig.12
	836.5	20525		15	0	2.95	Fig.13	2.92	Fig.14	2.87	Fig.15
	847.5	20635		15	0	2.94	Fig.16	2.88	Fig.17	2.88	Fig.18
	826.5	20425	5	25	0	4.75	Fig.19	4.73	Fig.20	4.67	Fig.21
	836.5	20525		25	0	4.74	Fig.22	4.76	Fig.23	4.70	Fig.24
	846.5	20625		25	0	4.83	Fig.25	4.72	Fig.26	4.70	Fig.27
	829	20450	10	50	0	9.68	Fig.28	9.82	Fig.29	9.64	Fig.30
	836.5	20525		50	0	9.72	Fig.31	9.64	Fig.32	9.64	Fig.33
	844	20600		50	0	9.73	Fig.34	9.69	Fig.35	9.64	Fig.36

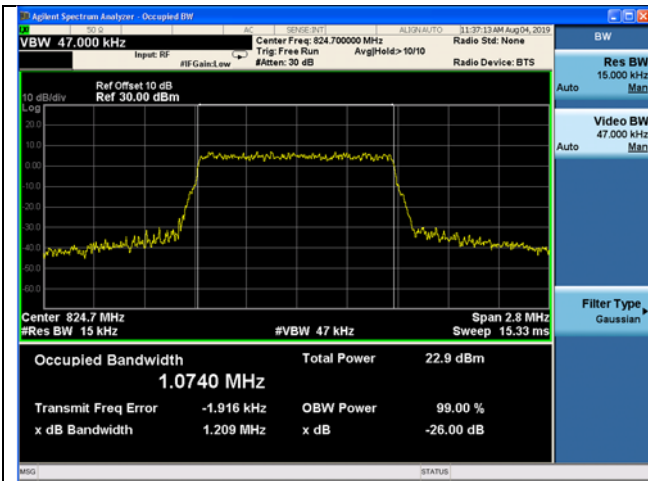


Fig.1

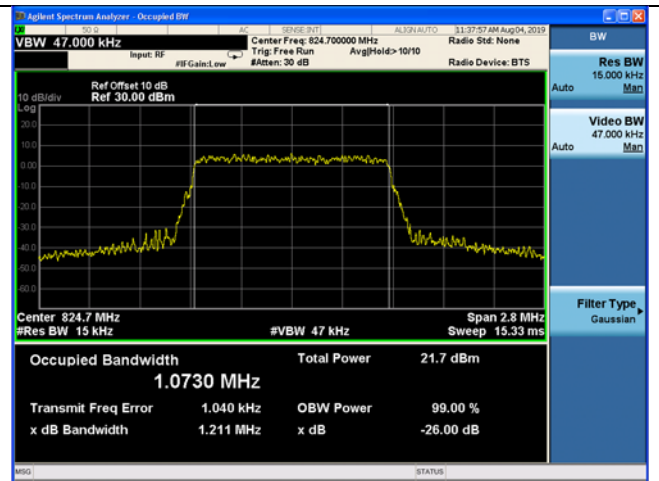


Fig.2

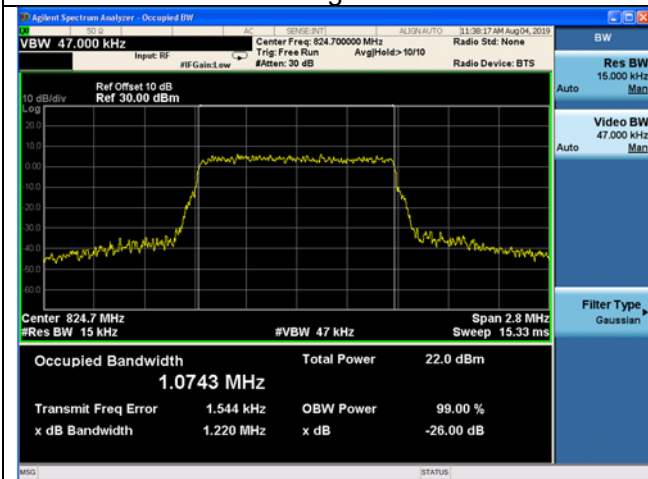


Fig.3

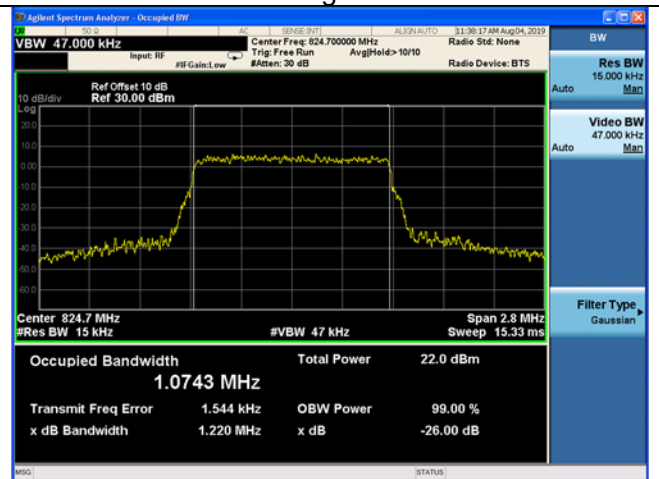


Fig.4

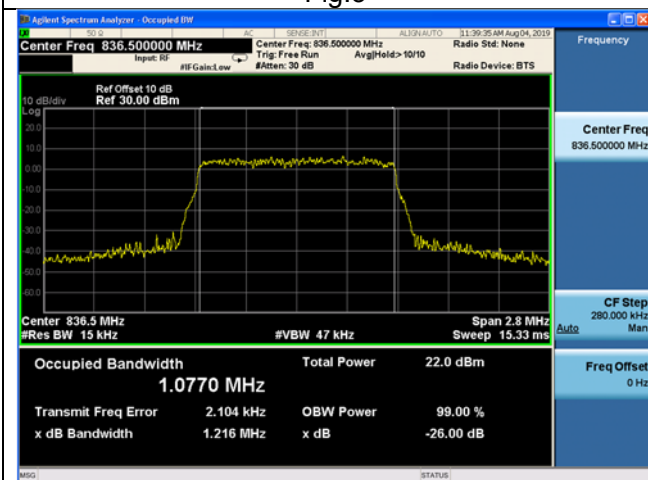


Fig.5

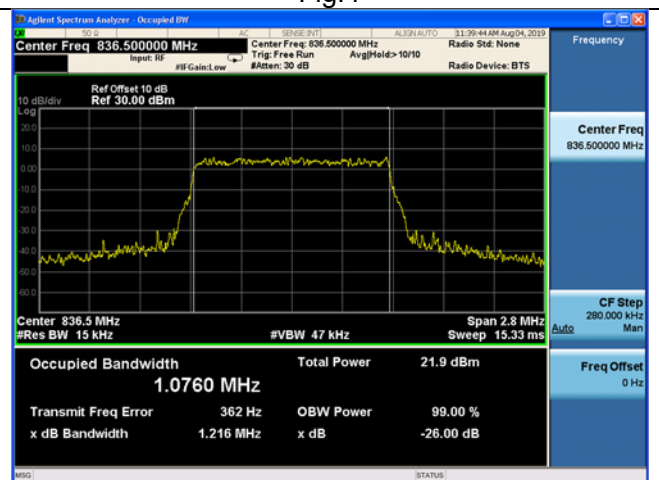


Fig.6

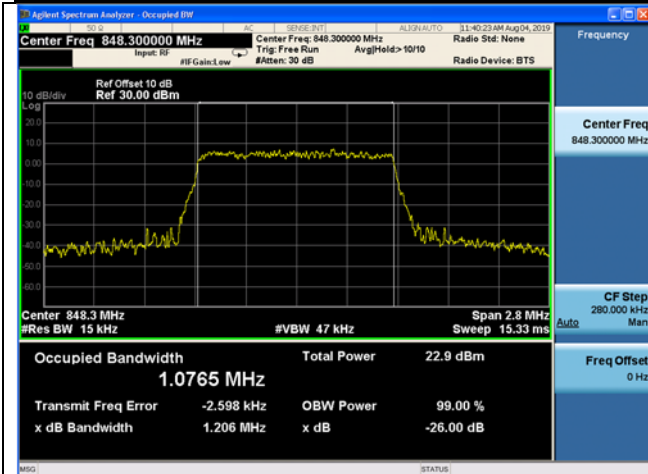


Fig.7

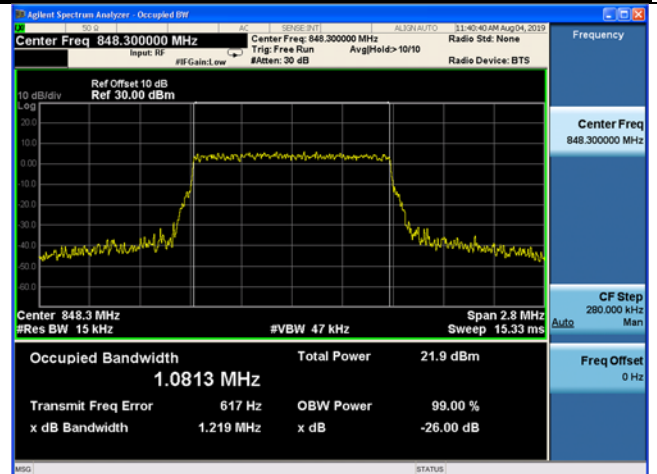


Fig.8

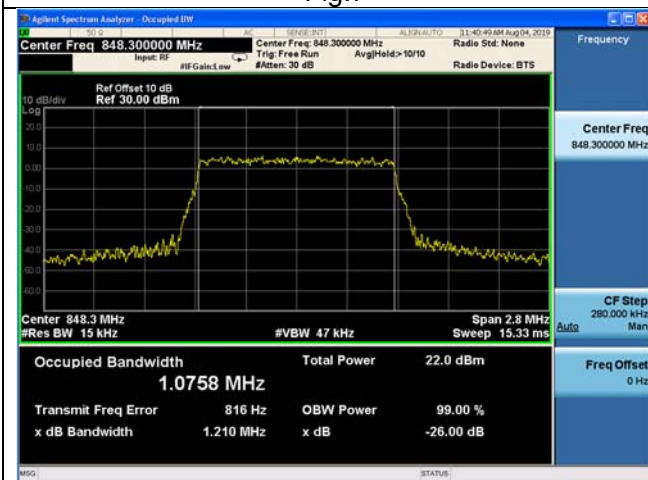


Fig.9

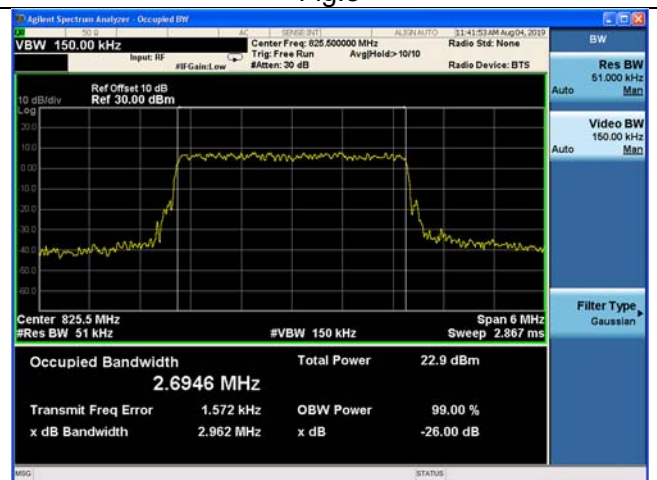


Fig.10

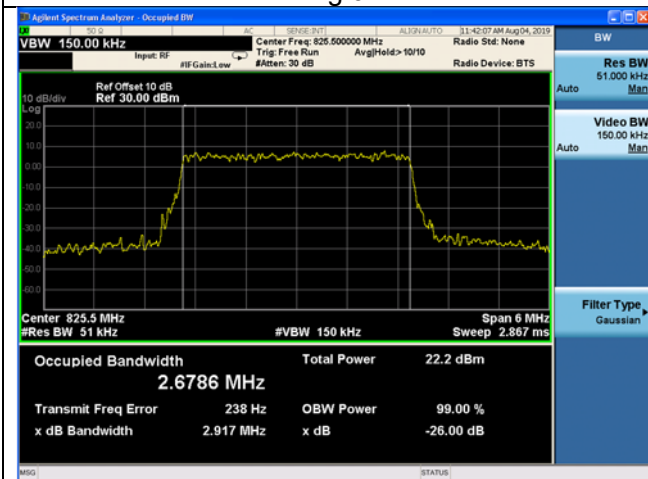


Fig.11

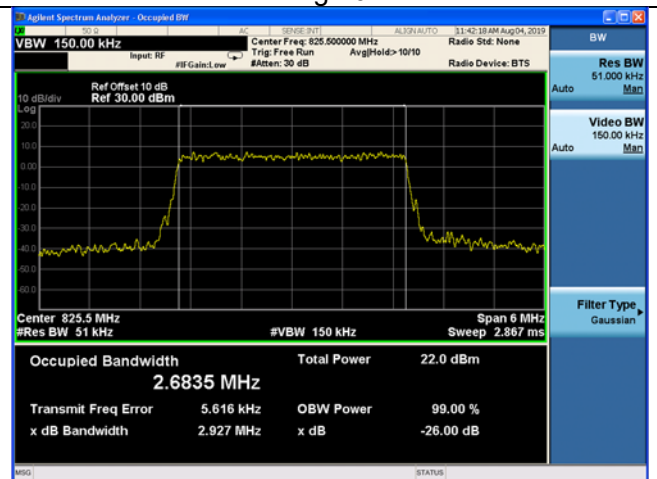


Fig.12

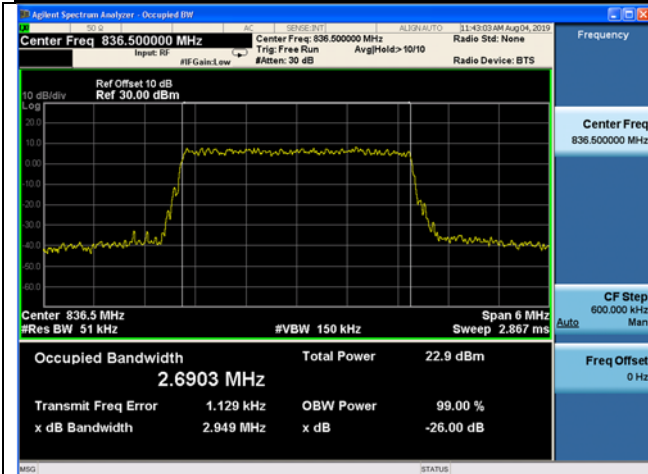


Fig.13

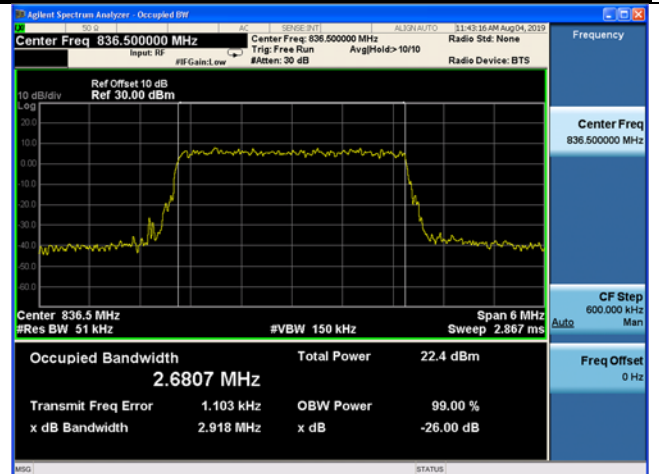


Fig.14

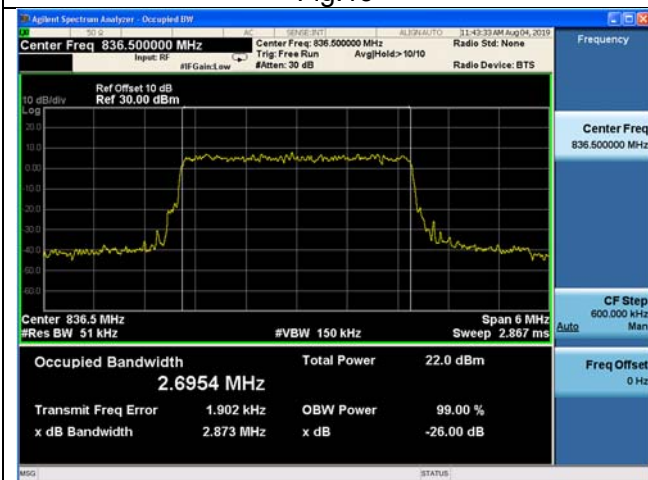


Fig.15

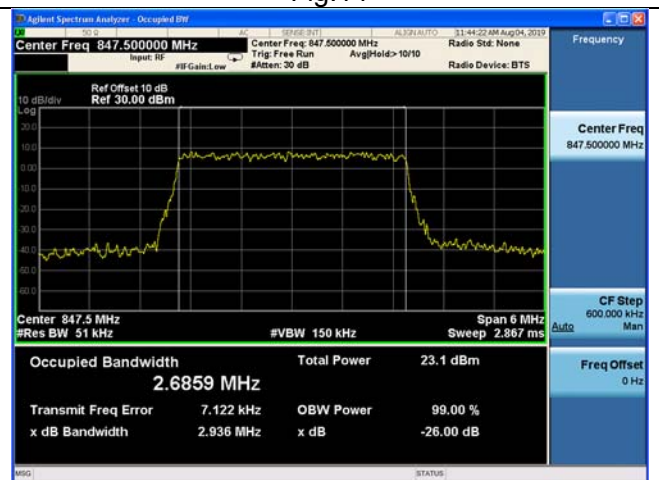


Fig.16

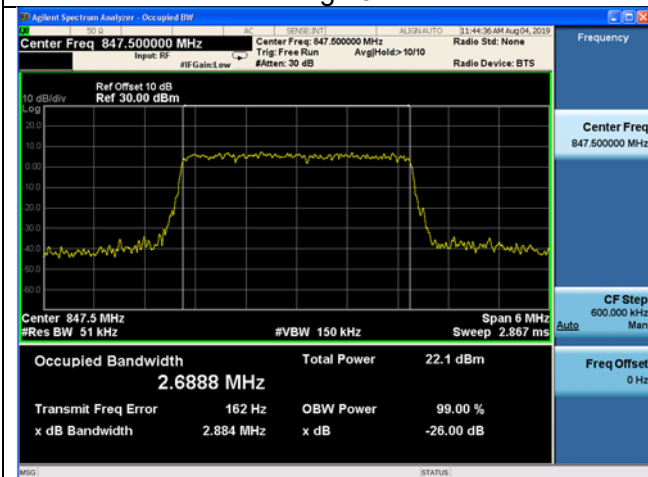


Fig.17

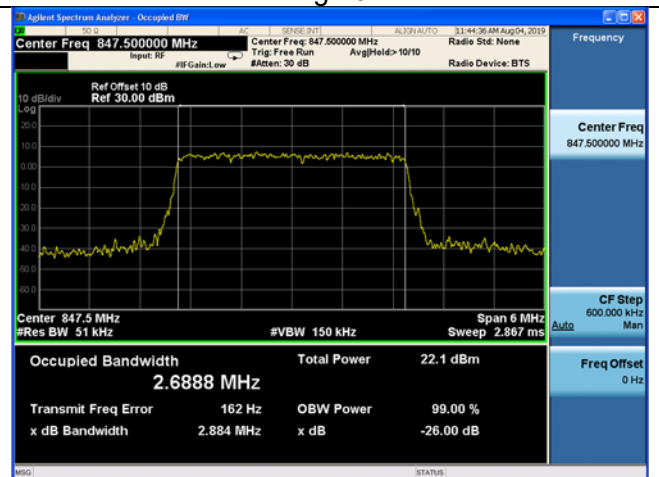


Fig.18

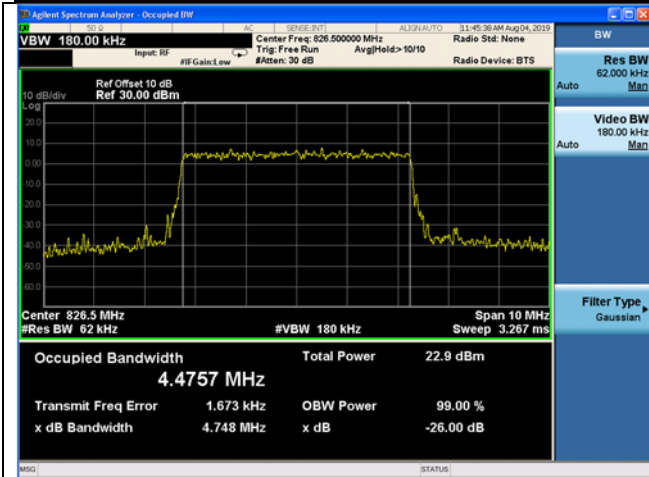


Fig.19

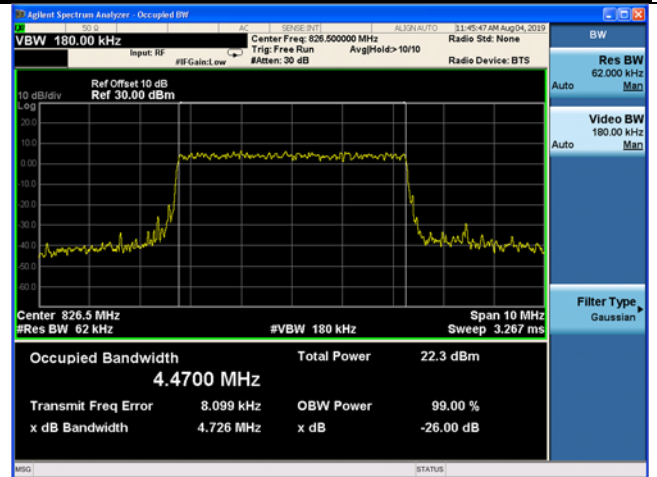


Fig.20

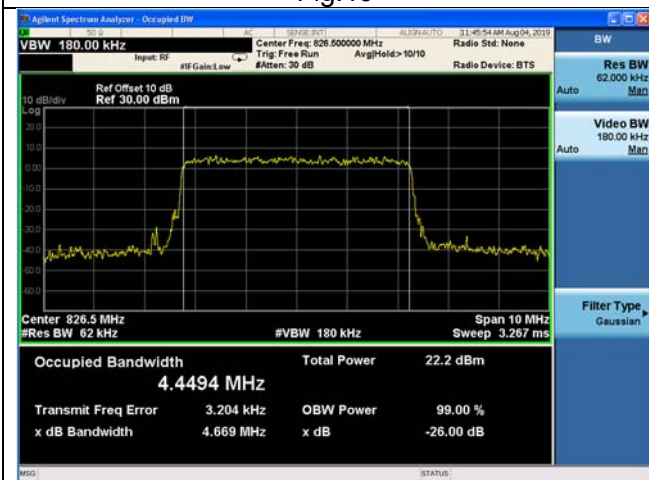


Fig.21

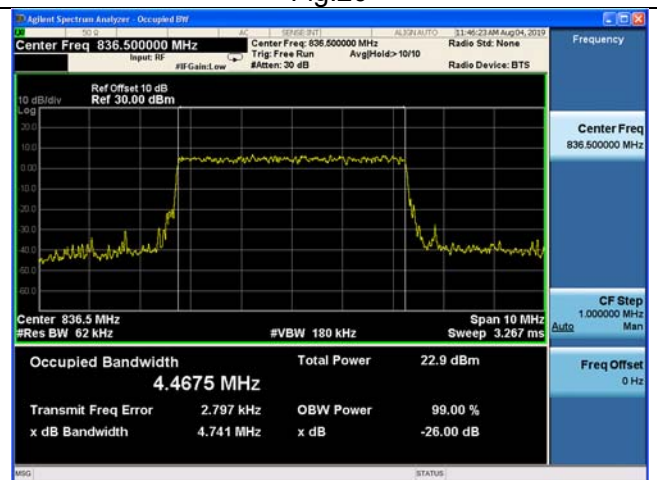


Fig.22

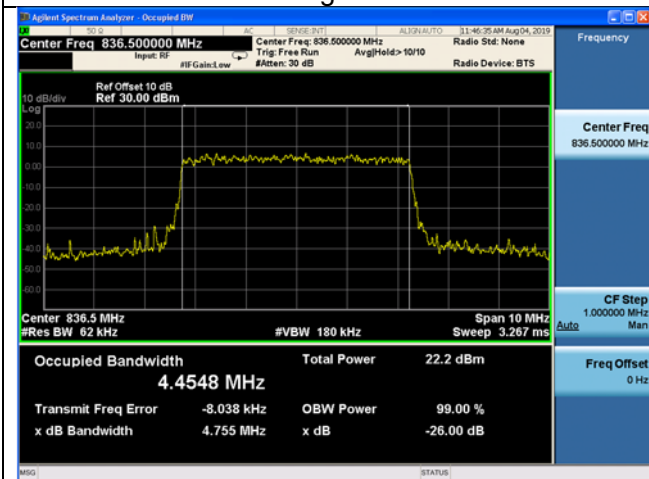


Fig.23

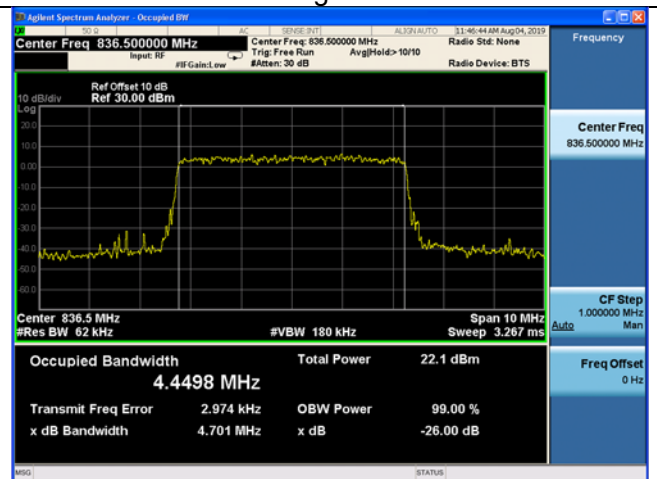


Fig.24

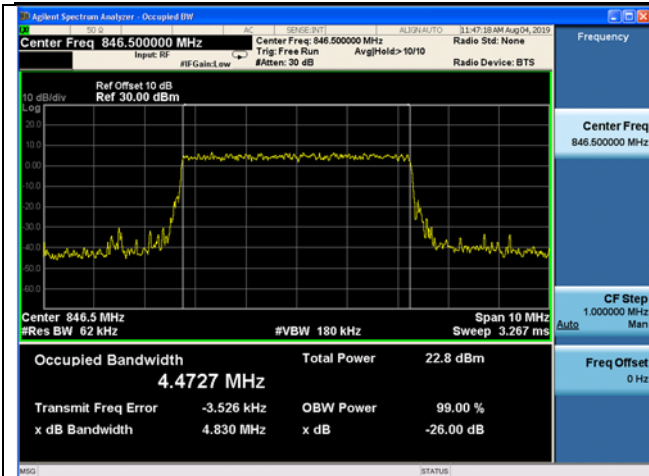


Fig.25

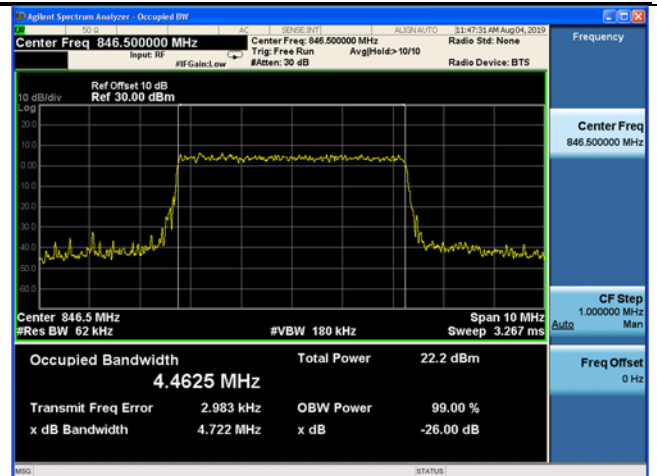


Fig.26

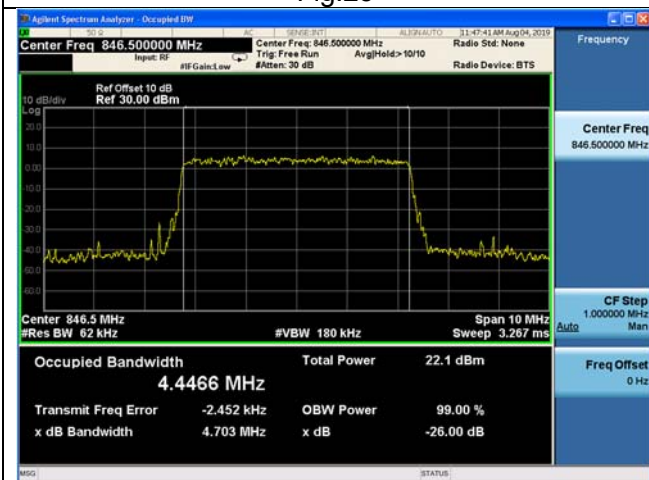


Fig.27

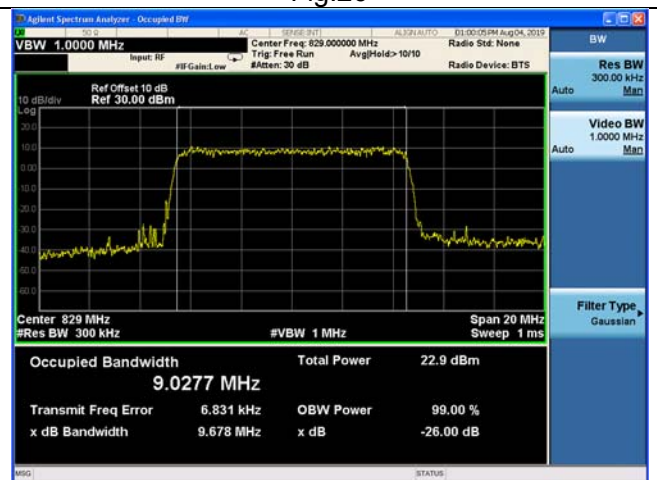


Fig.28

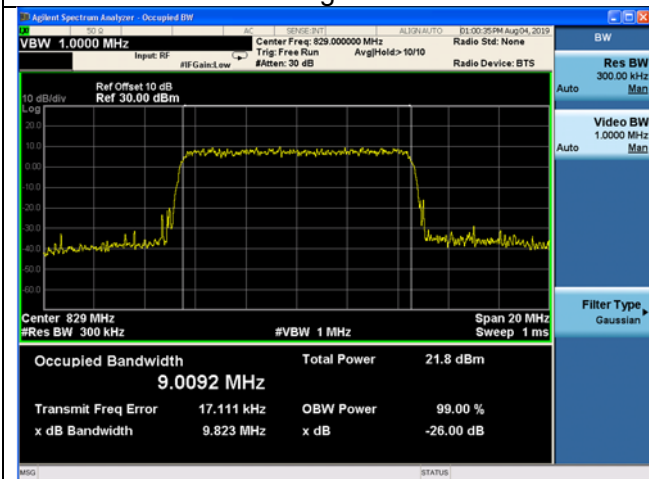


Fig.29

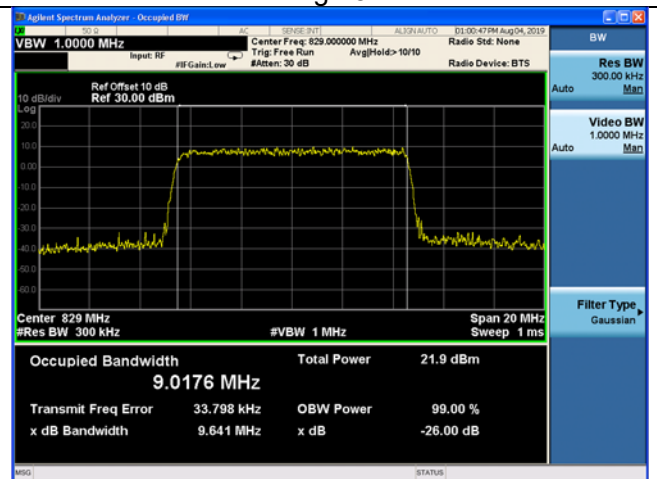


Fig.30

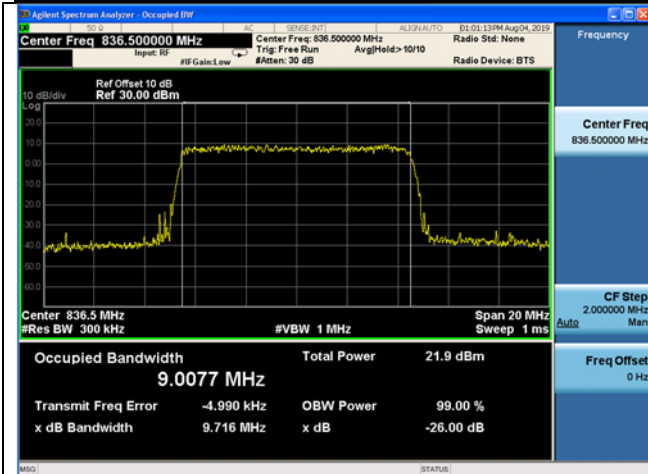


Fig.31

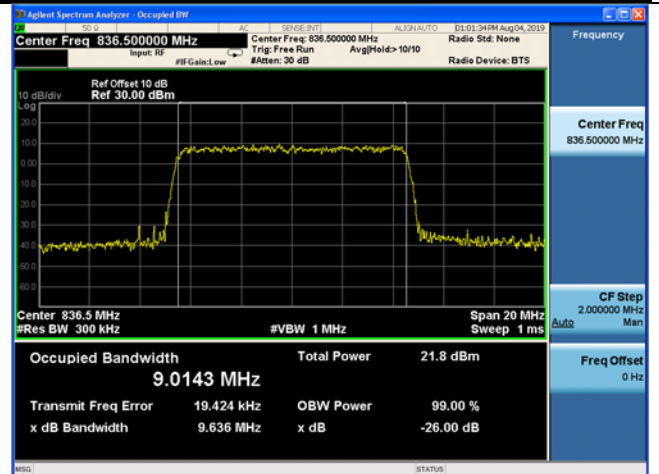


Fig.32

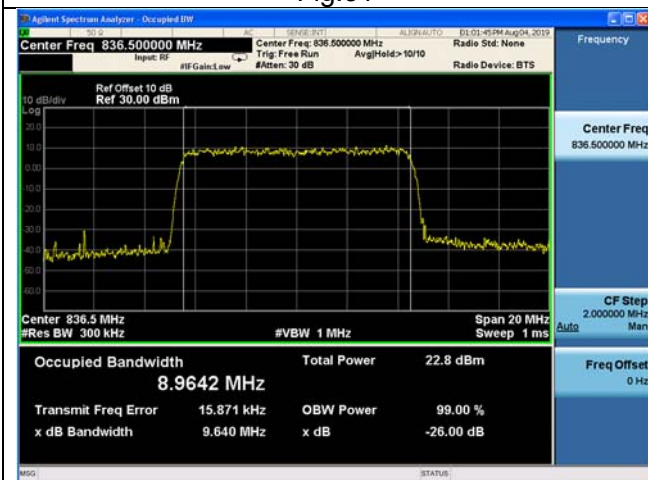


Fig.33

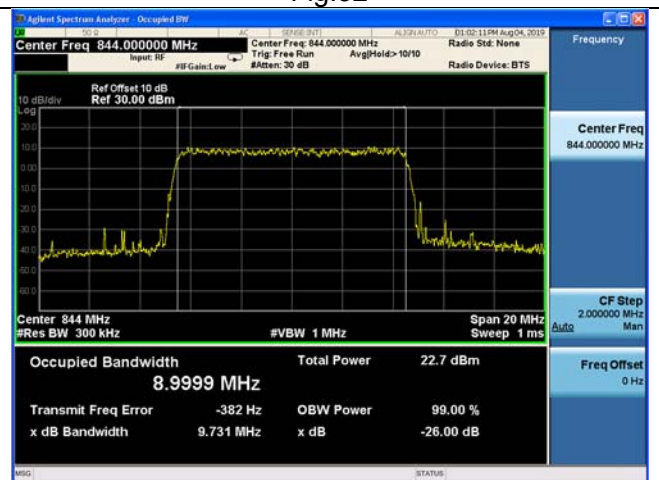


Fig.34

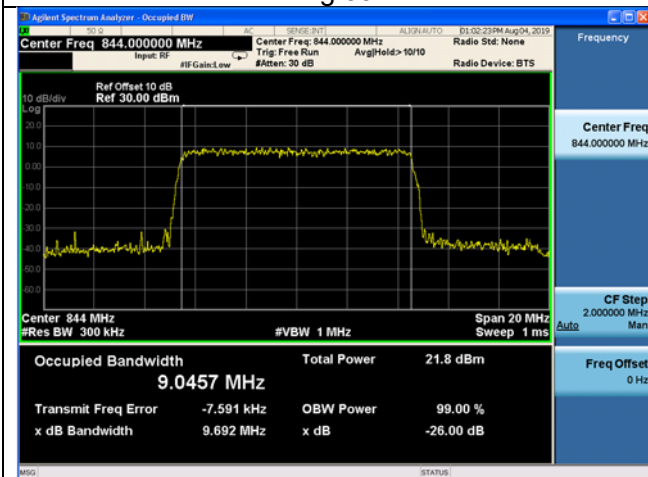


Fig.35

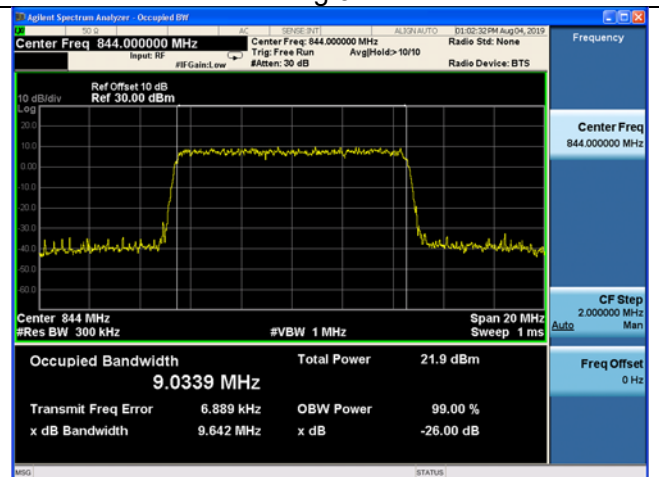


Fig.36

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
5	836.5	20525	1.4	1	0	Fig.1	Fig.2	Fig.3
			3	1	0	Fig.4	Fig.5	Fig.6
			5	1	0	Fig.7	Fig.8	Fig.9
			10	1	0	Fig.10	Fig.11	Fig.12

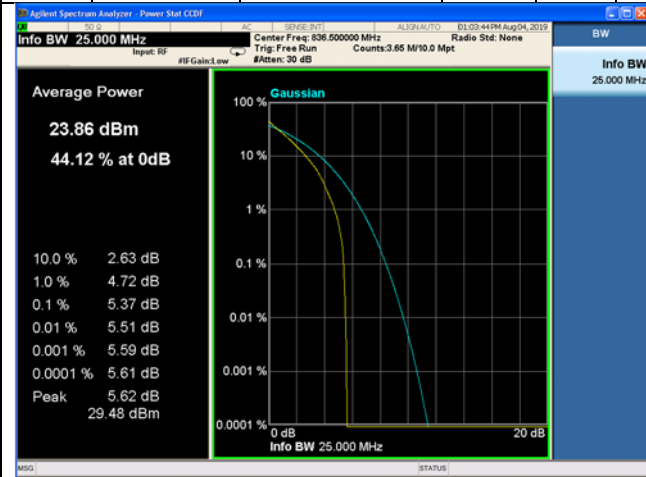


Fig.1

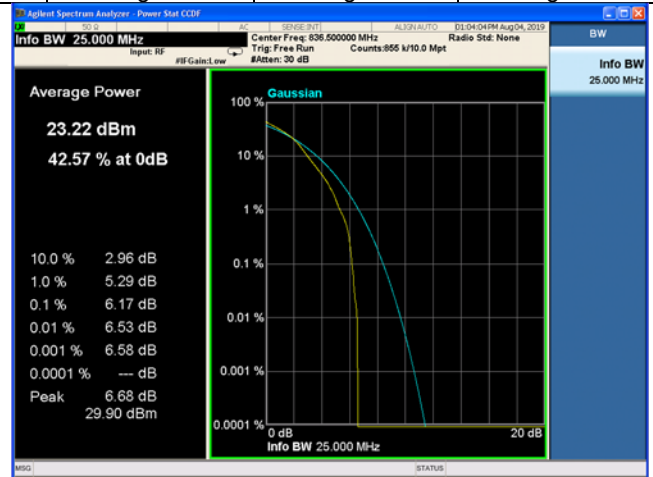


Fig.2

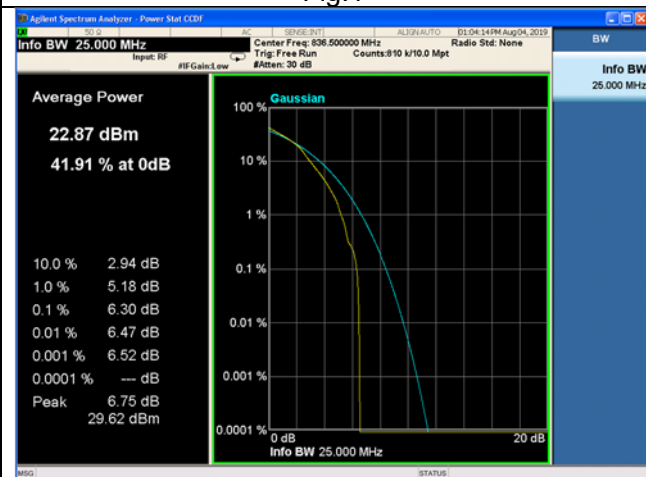


Fig.3

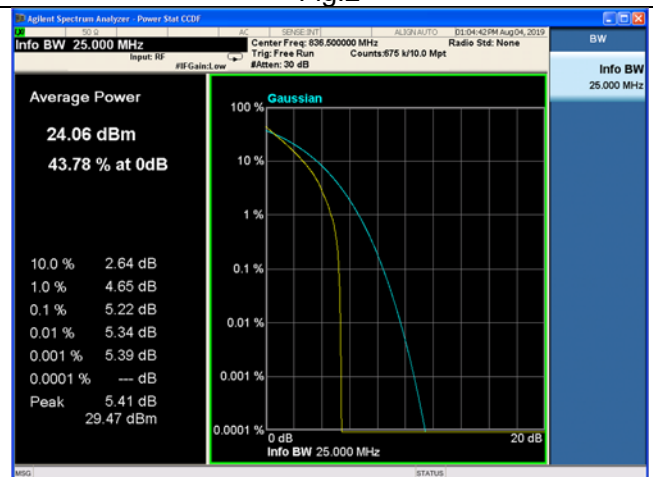


Fig.4

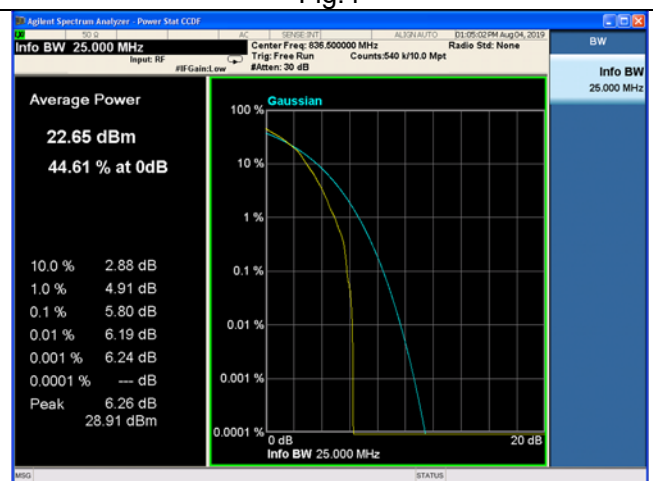
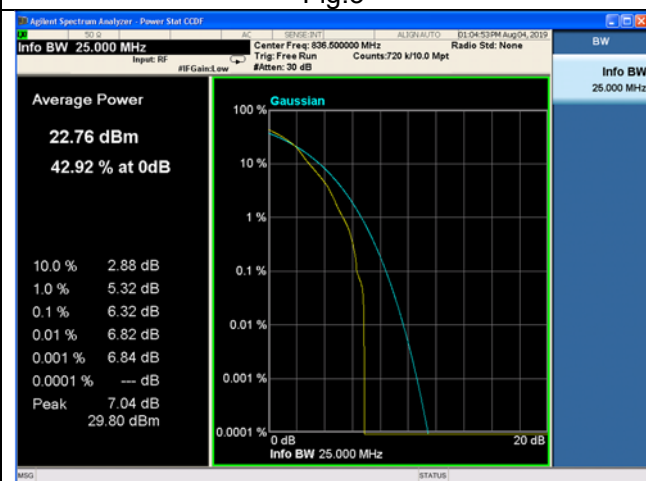


Fig.5

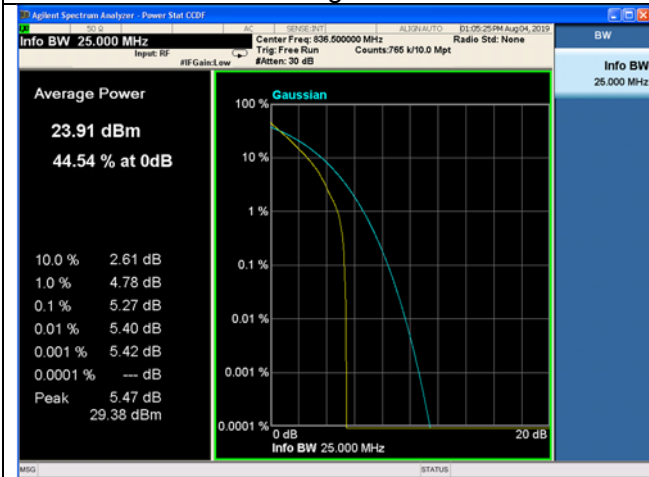


Fig.6

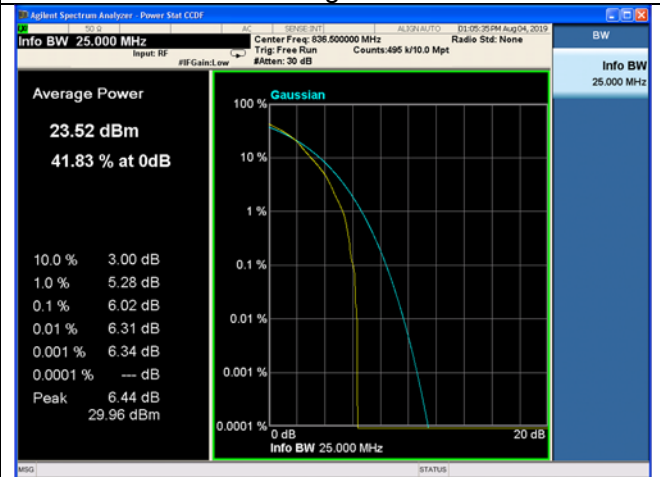


Fig.7

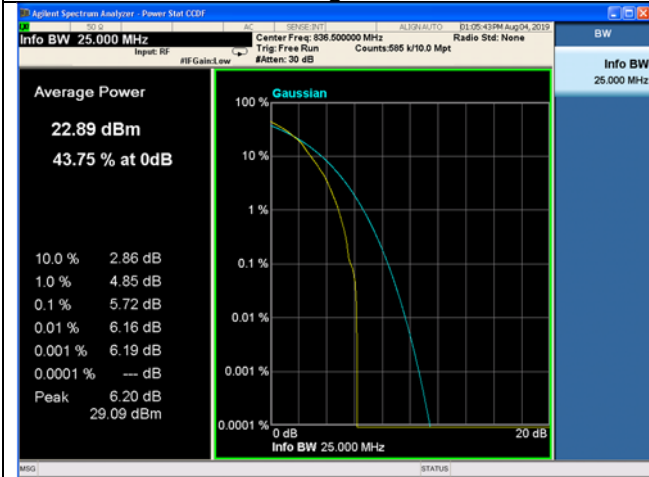


Fig.8

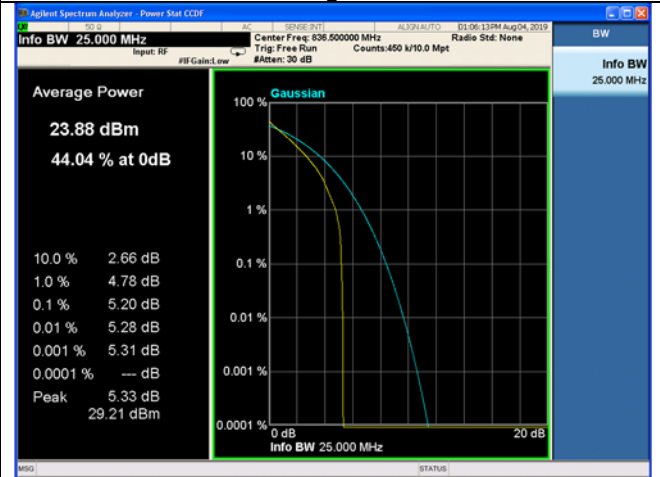


Fig.9

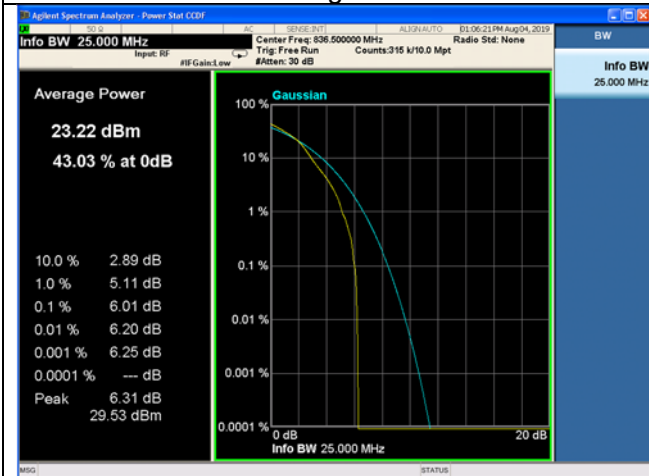


Fig.10

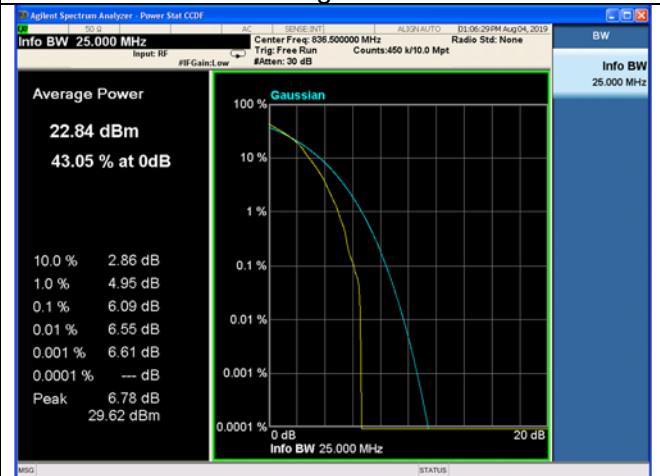


Fig.11



Fig.12



4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
5	829	20450	10	1	0	Fig.1
	836.5	20525	10	1	0	Fig.2
	844	20600	10	1	0	Fig.3

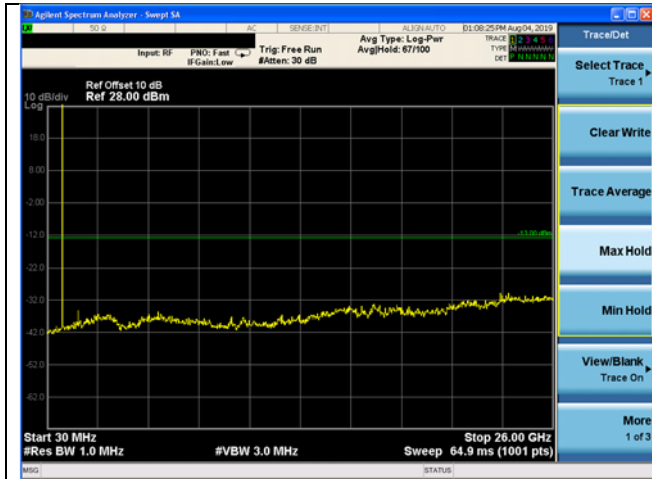


Fig.1



Fig.2



Fig3

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot	
						QPSK	
5	824.7	20407	1.4	1	0	Fig.1	
				6	0	Fig.2	
	848.3	20643		1	5	Fig.3	
				6	0	Fig.4	
	825.5	20415	3	1	0	Fig.5	
				15	0	Fig.6	
	847.5	20635		1	14	Fig.7	
				15	0	Fig.8	
	826.5	20425		5	1	0	Fig.9
					25	0	Fig.10
	846.5	20625	1		24	Fig.11	
			25		0	Fig.12	
	829	20450	10	1	0	Fig.13	
				50	0	Fig.14	
	844	20600		1	49	Fig.15	
				50	0	Fig.16	

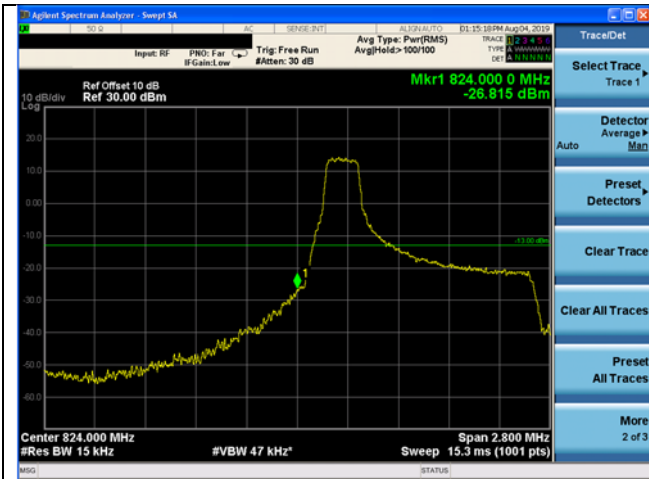


Fig.1

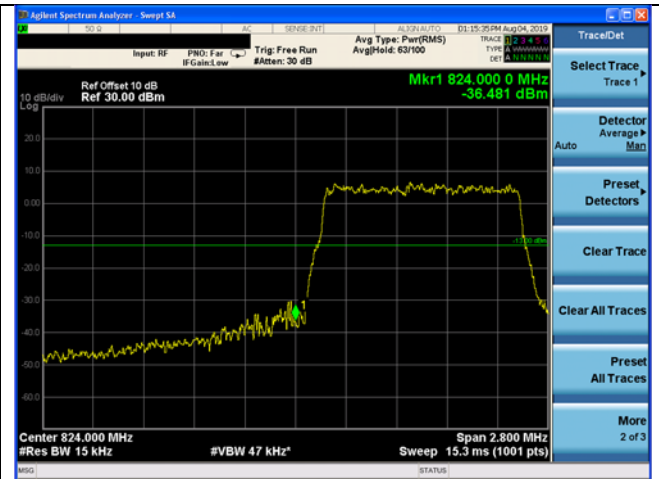


Fig.2

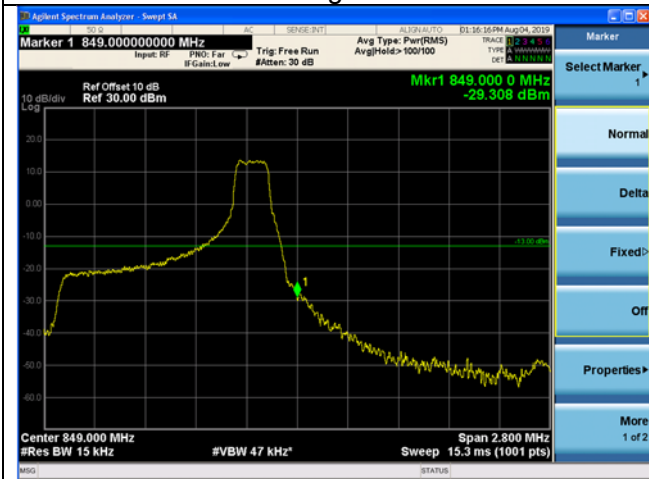


Fig.3

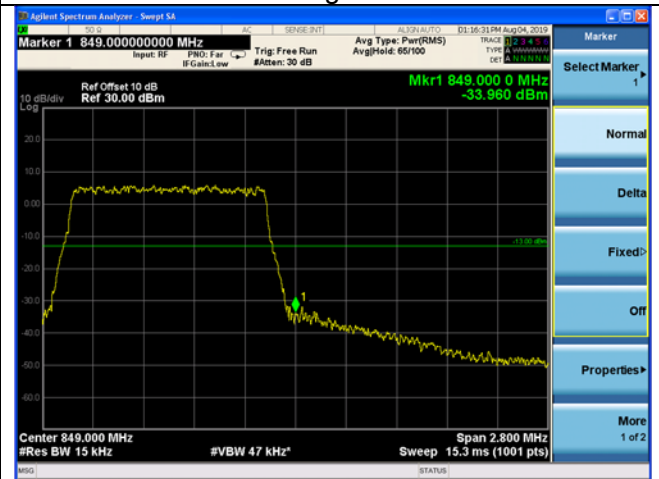


Fig.4

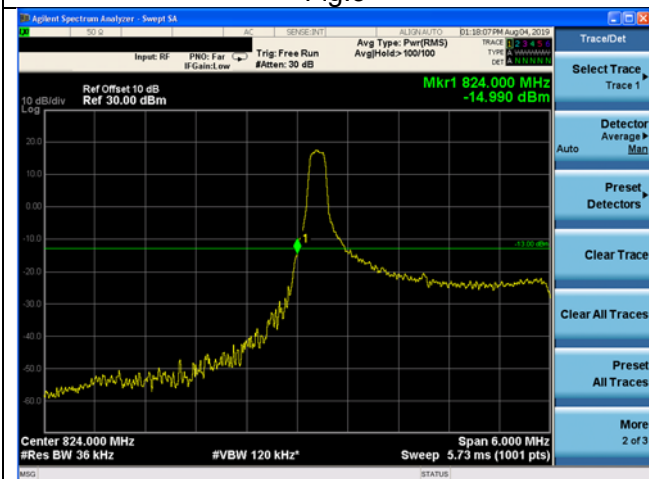


Fig.5

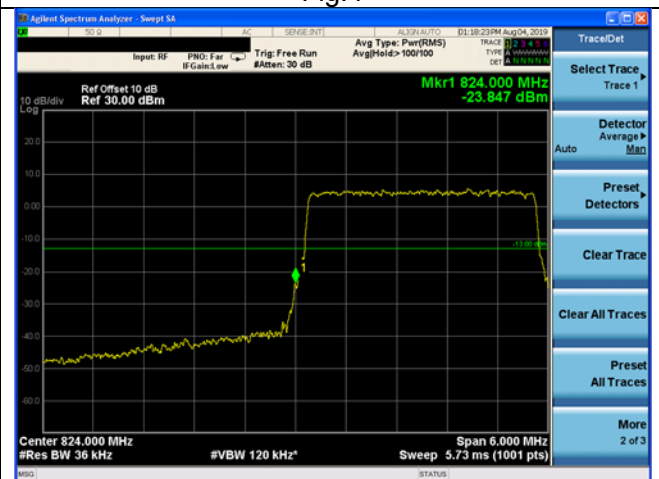


Fig.6

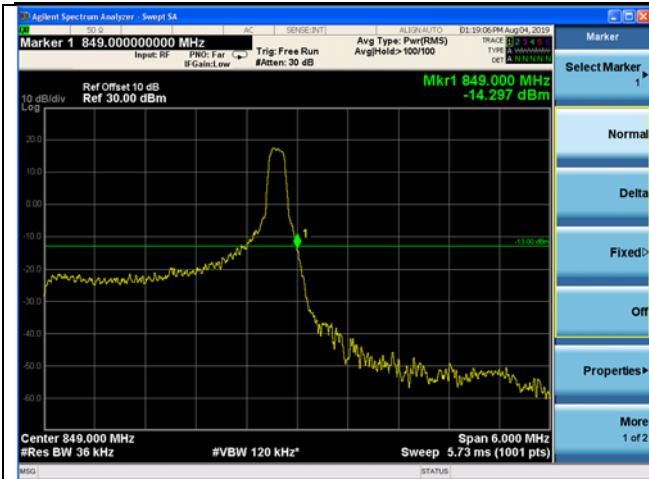


Fig.7



Fig.8

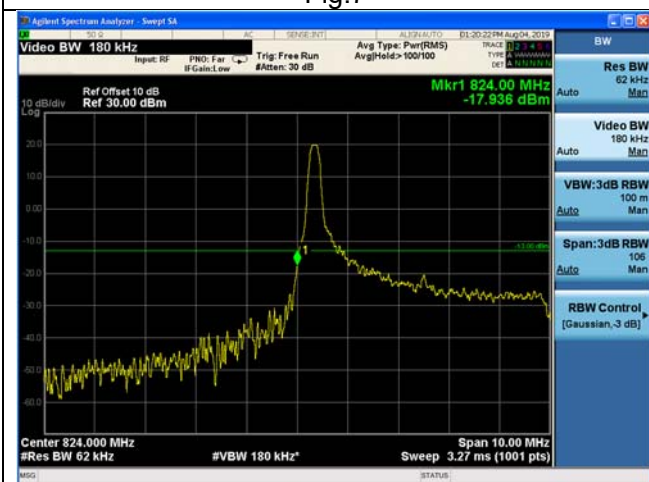


Fig.9

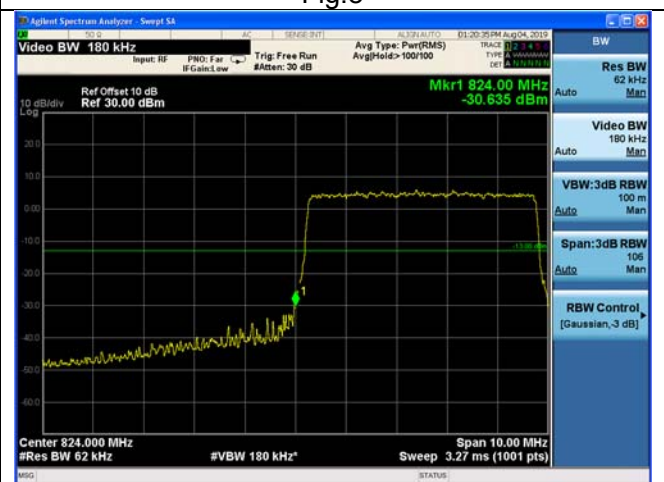


Fig.10

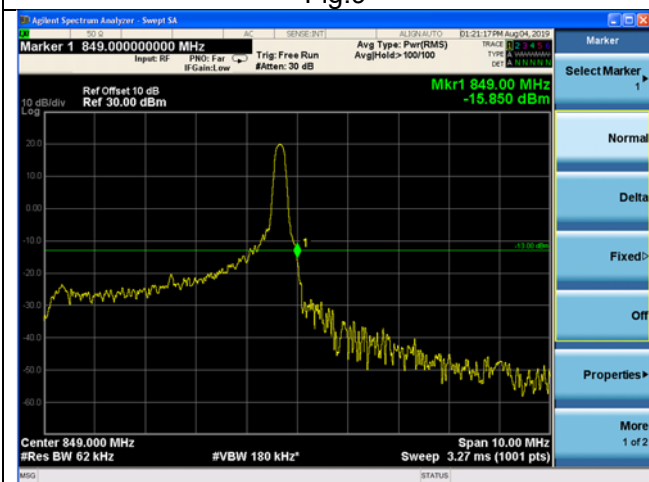


Fig.11

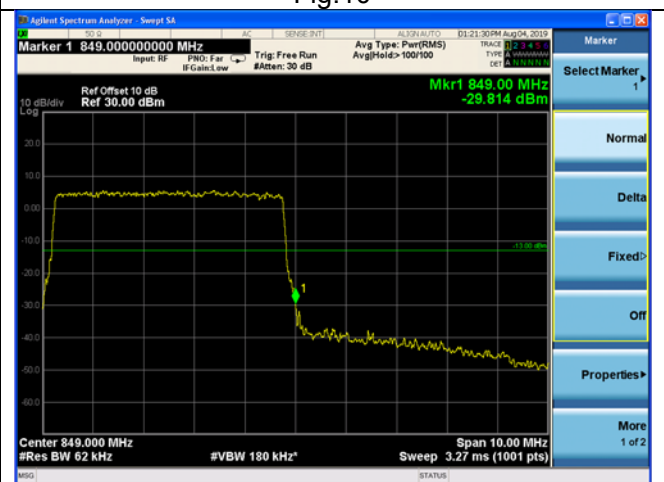


Fig.12