

Fig.13

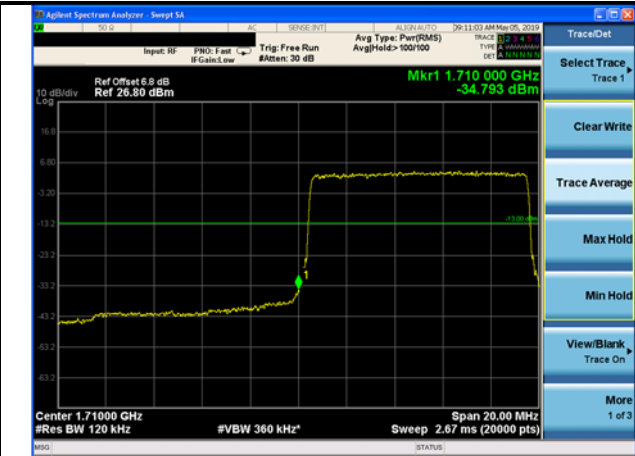


Fig.14

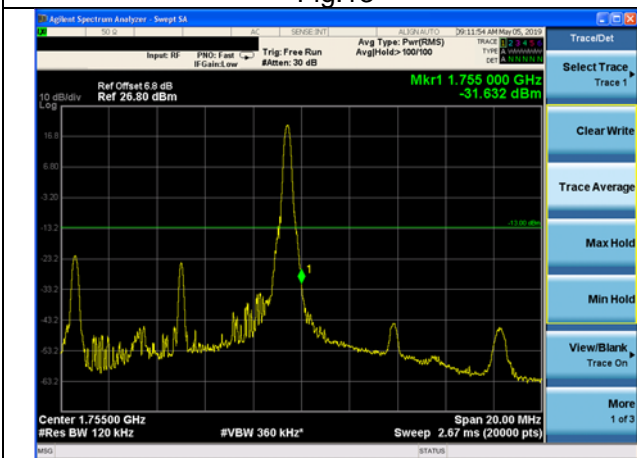


Fig.15



Fig.16

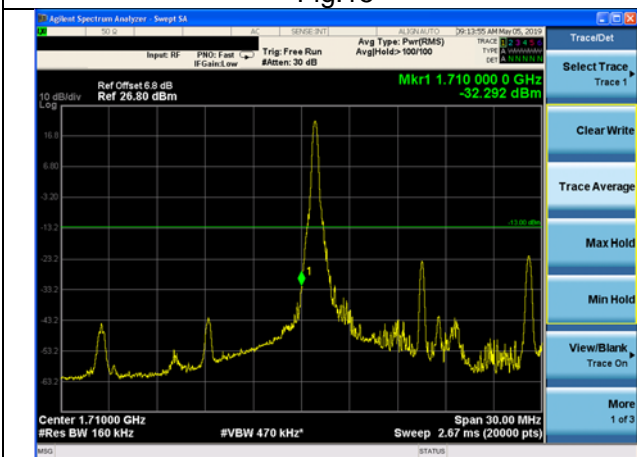


Fig.17

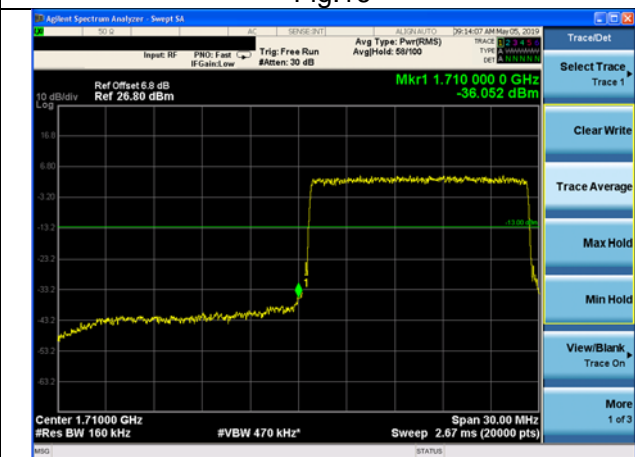


Fig.18

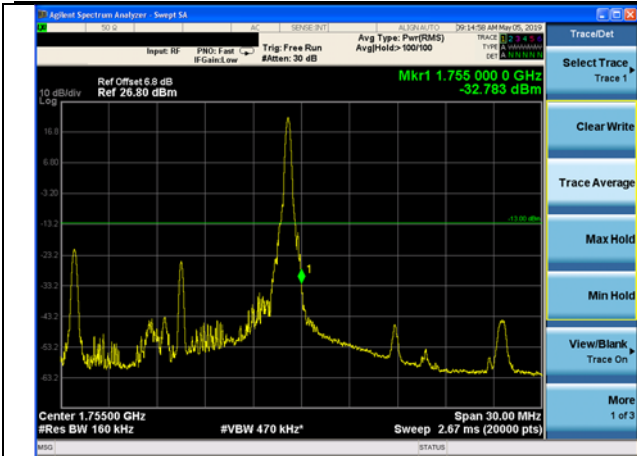


Fig.19

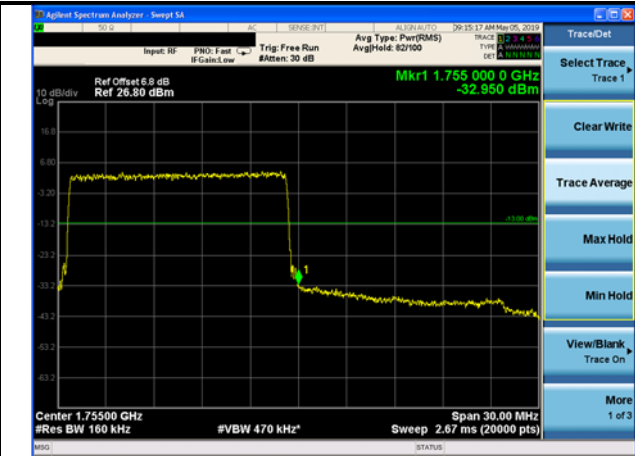


Fig.20

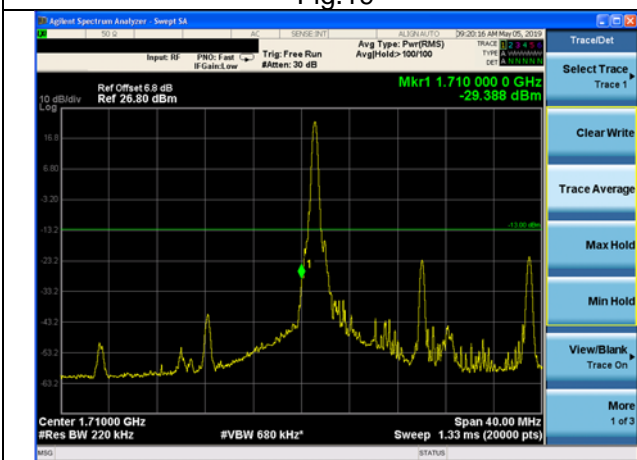


Fig.21

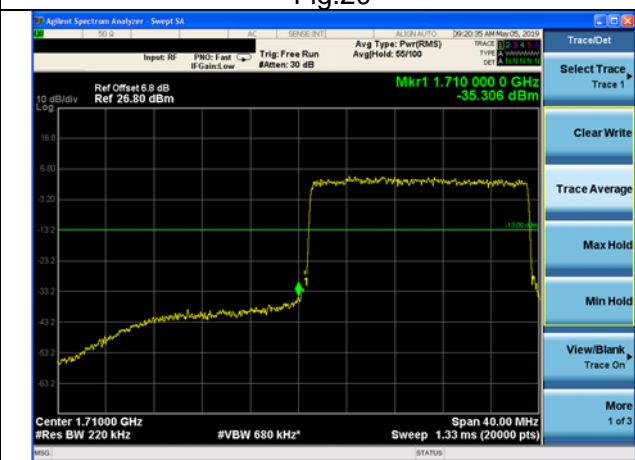


Fig.22

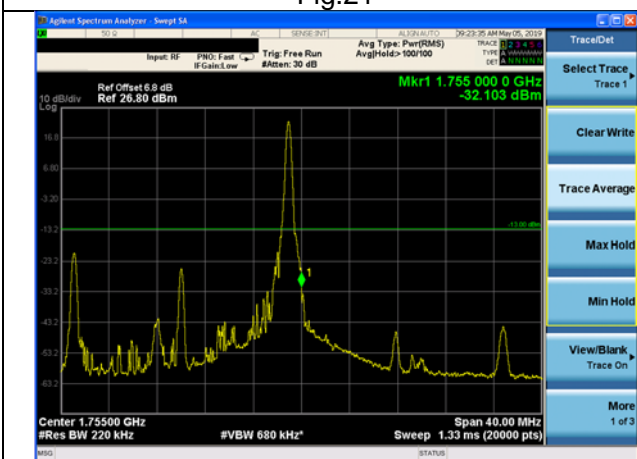


Fig.23



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	0.118	0.007	0.089	0.095	0.018	0.154
0	NV	0.142	0.094	0.005	0.036	0.103	0.100
+10	NV	0.086	0.043	0.072	0.078	0.086	0.073
+20	NV	0.042	0.017	0.140	0.052	0.076	0.084
+30	NV	0.033	0.025	0.117	0.032	0.008	0.016
+40	NV	0.125	0.053	0.064	0.107	0.067	0.094
+50	NV	0.066	0.076	0.041	0.053	0.090	0.075
+55	NV	0.148	0.058	0.043	0.005	0.107	0.150
+20	LV	0.045	0.045	0.030	0.011	0.008	0.055
+20	HV	0.060	0.085	0.052	0.061	0.036	0.102

Temperature(°C)	Voltage	Test Result (ppm) Band4 High Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.128	0.081	0.006	0.073	0.024	0.150
0	NV	0.042	0.096	0.122	0.113	0.137	0.117
+10	NV	0.094	0.102	0.067	0.072	0.068	0.030
+20	NV	0.015	0.089	0.063	0.104	0.103	0.109
+30	NV	0.119	0.017	0.127	0.041	0.023	0.154
+40	NV	0.024	0.036	0.136	0.061	0.009	0.052
+50	NV	0.080	0.044	0.049	0.072	0.033	0.085
+55	NV	0.037	0.029	0.061	0.084	0.087	0.082
+20	LV	0.064	0.046	0.041	0.092	0.096	0.141
+20	HV	0.015	0.060	0.140	0.037	0.001	0.005

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	23.61
				1	5	23.67
				3	2	22.57
				6	0	22.45
	836.5	20525		1	0	23.59
				1	5	23.56
				3	2	22.77
				6	0	22.49
	848.3	20643		1	0	23.57
				1	5	23.51
				3	2	22.53
				6	0	22.39
16QAM	824.7	20407	1.4	1	0	22.99
				1	5	22.99
				3	2	21.68
				6	0	21.45
	836.5	20525		1	0	23.04
				1	5	22.99
				3	2	21.59
				6	0	21.47
	848.3	20643		1	0	22.99
				1	5	23.02
				3	2	21.55
				6	0	21.27
64QAM	824.7	20407	1.4	1	0	23.03
				1	5	23.09
				3	2	21.66
				6	0	21.40
	836.5	20525		1	0	23.02
				1	5	23.03
				3	2	21.54
				6	0	21.39
	848.3	20643		1	0	22.90
				1	5	22.97
				3	2	21.51
				6	0	21.34

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.62
				1	14	23.60
				8	4	22.56
				15	0	22.53
	836.5	20525		1	0	23.58
				1	14	23.61
				8	4	22.75
				15	0	22.50
	847.5	20635		1	0	23.49
				1	14	23.53
				8	4	22.55
				15	0	22.36
16QAM	825.5	20415	3	1	0	23.04
				1	14	23.06
				8	4	21.69
				15	0	21.39
	836.5	20525		1	0	23.03
				1	14	23.08
				8	4	21.60
				15	0	21.44
	847.5	20635		1	0	22.95
				1	14	22.99
				8	4	21.60
				15	0	21.35
64QAM	825.5	20415	3	1	0	23.03
				1	14	23.05
				8	4	21.66
				15	0	21.40
	836.5	20525		1	0	23.02
				1	14	22.99
				8	4	21.58
				15	0	21.35
	847.5	20635		1	0	22.93
				1	14	22.93
				8	4	21.51
				15	0	21.38

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.64
				1	24	23.59
				12	6	22.63
				25	0	22.51
	836.5	20525		1	0	23.54
				1	24	23.61
				12	6	22.77
				25	0	22.50
	846.5	20625		1	0	23.54
				1	24	23.50
				12	6	22.59
				25	0	22.36
16QAM	826.5	20425	5	1	0	23.00
				1	24	23.08
				12	6	21.67
				25	0	21.37
	836.5	20525		1	0	23.01
				1	24	23.02
				12	6	21.65
				25	0	21.44
	846.5	20625		1	0	23.01
				1	24	23.02
				12	6	21.59
				25	0	21.27
64QAM	826.5	20425	5	1	0	23.07
				1	24	23.02
				12	6	21.68
				25	0	21.40
	836.5	20525		1	0	23.07
				1	24	23.06
				12	6	21.57
				25	0	21.32
	846.5	20625		1	0	22.89
				1	24	22.97
				12	6	21.51
				25	0	21.39

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.68
				1	49	23.68
				24	12	22.64
				50	0	22.55
	836.5	20525		1	0	23.62
				1	49	23.62
				24	12	22.79
				50	0	22.51
	844	20600		1	0	23.58
				1	49	23.58
				24	12	22.62
				50	0	22.43
16QAM	829	20450	10	1	0	23.08
				1	49	23.08
				24	12	21.69
				50	0	21.46
	836.5	20525		1	0	23.09
				1	49	23.09
				24	12	21.65
				50	0	21.52
	844	20600		1	0	23.05
				1	49	23.05
				24	12	21.64
				50	0	21.35
64QAM	829	20450	10	1	0	23.12
				1	49	23.12
				24	12	21.68
				50	0	21.45
	836.5	20525		1	0	23.09
				1	49	23.09
				24	12	21.62
				50	0	21.41
	844	20600		1	0	22.98
				1	49	22.98
				24	12	21.54
				50	0	21.42

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	1.1	Fig.1	1.1	Fig.2	1.1	Fig.3
	836.5	20525		6	0	1.1	Fig.4	1.1	Fig.5	1.1	Fig.6
	848.3	20643		6	0	1.1	Fig.7	1.1	Fig.8	1.1	Fig.9
	825.5	20415	3	15	0	2.7	Fig.10	2.7	Fig.11	2.7	Fig.12
	836.5	20525		15	0	2.7	Fig.13	2.7	Fig.14	2.7	Fig.15
	847.5	20635		15	0	2.7	Fig.16	2.7	Fig.17	2.7	Fig.18
	826.5	20425	5	25	0	4.5	Fig.19	4.5	Fig.20	4.5	Fig.21
	836.5	20525		25	0	4.5	Fig.22	4.5	Fig.23	4.5	Fig.24
	846.5	20625		25	0	4.5	Fig.25	4.5	Fig.26	4.5	Fig.27
	829	20450	10	50	0	9.1	Fig.28	9.0	Fig.29	9.0	Fig.30
	836.5	20525		50	0	9.0	Fig.31	9.0	Fig.32	9.1	Fig.33
844	20600	50		0	9.0	Fig.34	9.0	Fig.35	9.0	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	1.2	Fig.1	1.2	Fig.2	1.2	Fig.3
	836.5	20525		6	0	1.2	Fig.4	1.2	Fig.5	1.2	Fig.6
	848.3	20643		6	0	1.2	Fig.7	1.2	Fig.8	1.2	Fig.9
	825.5	20415	3	15	0	2.9	Fig.10	2.9	Fig.11	3.0	Fig.12
	836.5	20525		15	0	2.9	Fig.13	2.9	Fig.14	3.0	Fig.15
	847.5	20635		15	0	3.0	Fig.16	3.0	Fig.17	2.9	Fig.18
	826.5	20425	5	25	0	4.9	Fig.19	4.9	Fig.20	4.8	Fig.21
	836.5	20525		25	0	4.9	Fig.22	4.8	Fig.23	4.8	Fig.24
	846.5	20625		25	0	4.8	Fig.25	4.8	Fig.26	4.8	Fig.27
	829	20450	10	50	0	9.9	Fig.28	9.9	Fig.29	9.9	Fig.30
	836.5	20525		50	0	9.8	Fig.31	9.8	Fig.32	9.7	Fig.33
844	20600	50		0	9.8	Fig.34	9.8	Fig.35	9.9	Fig.36	

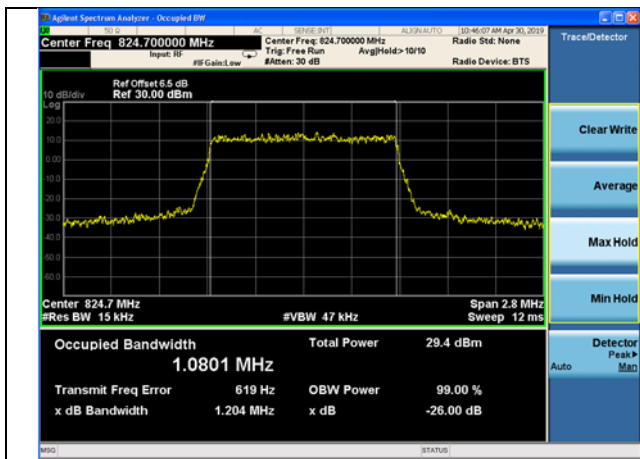


Fig.1

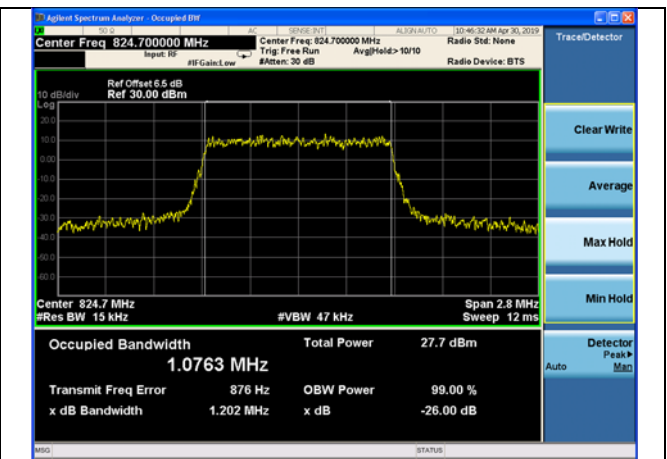


Fig.2

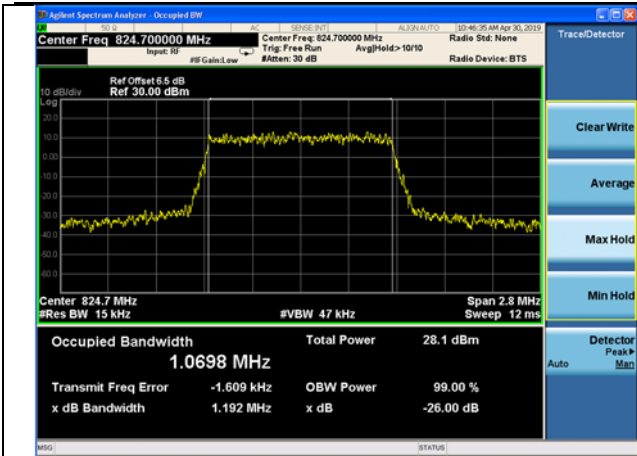


Fig.3

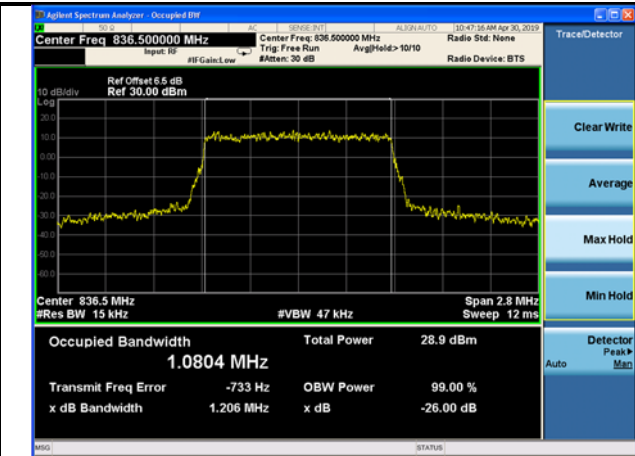


Fig.4

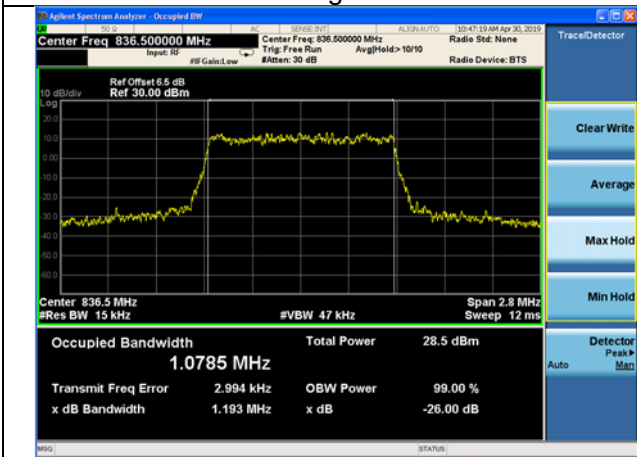


Fig.5

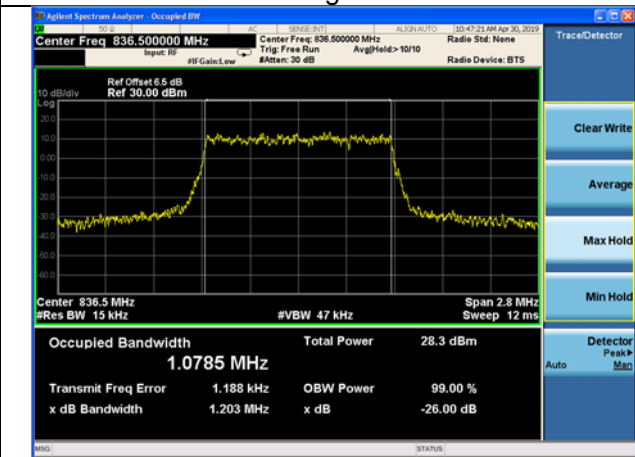


Fig.6

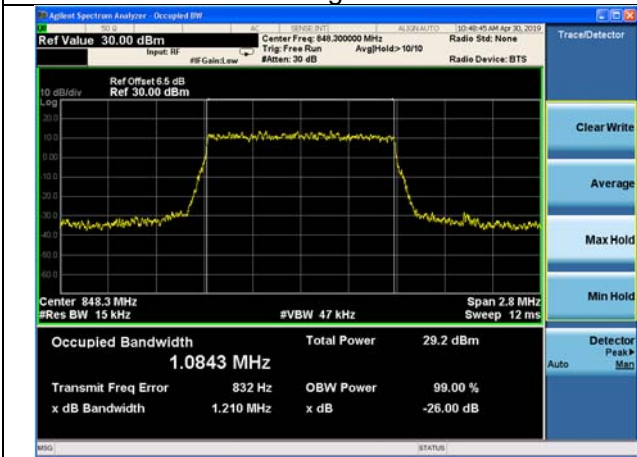


Fig.7

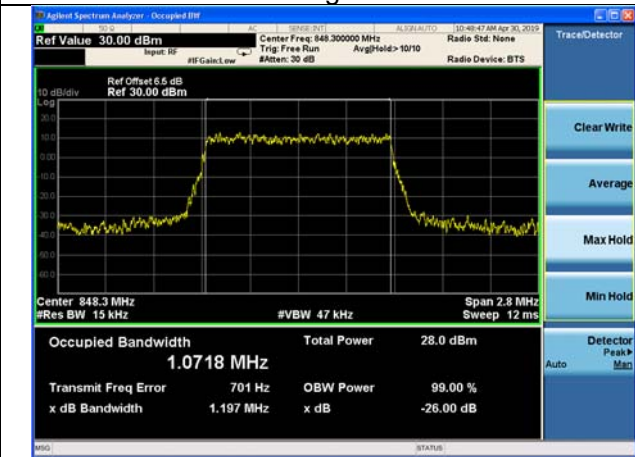


Fig.8

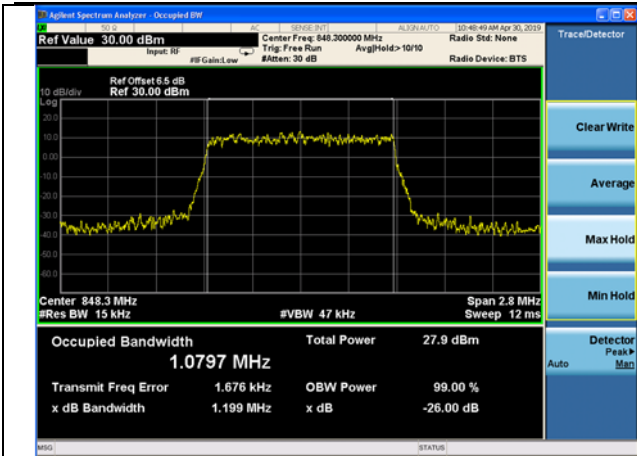


Fig.9

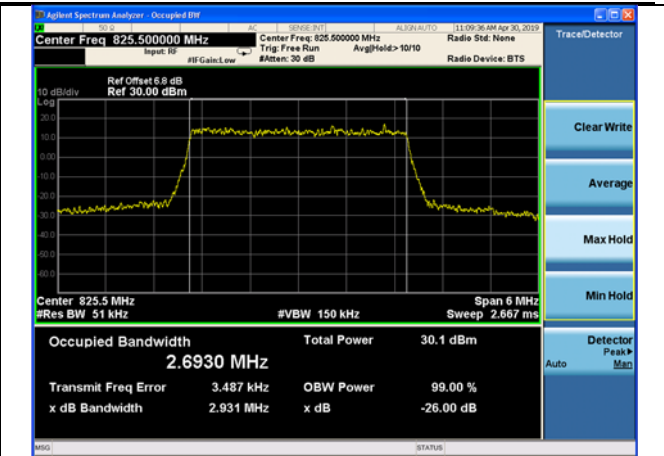


Fig.10

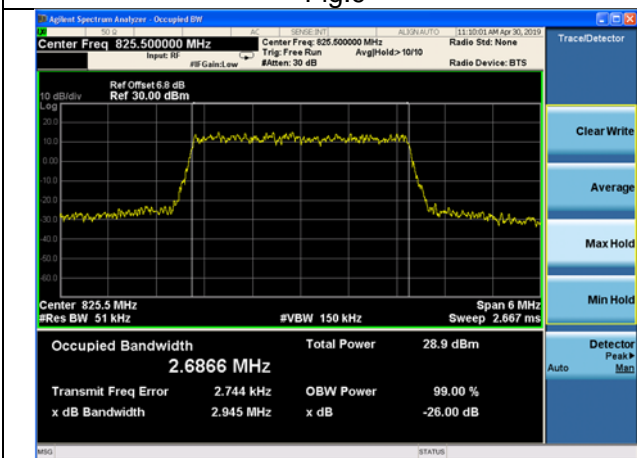


Fig.11

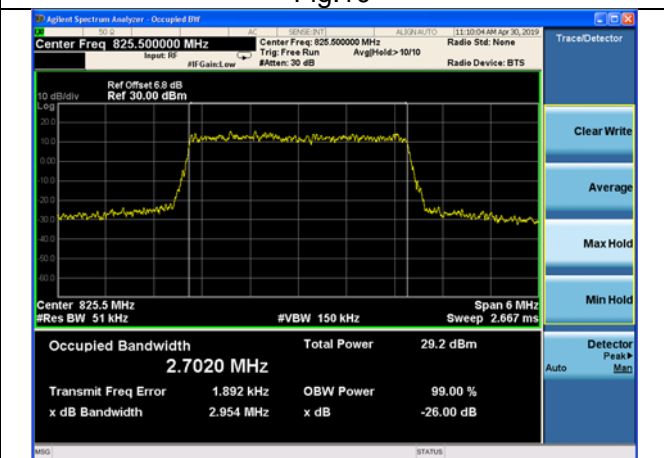


Fig.12

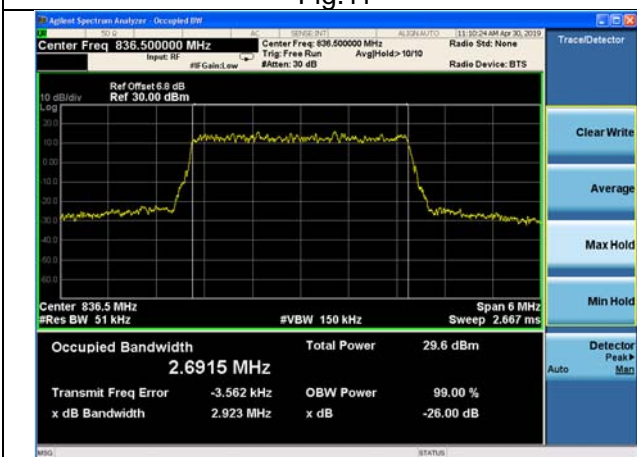


Fig.13

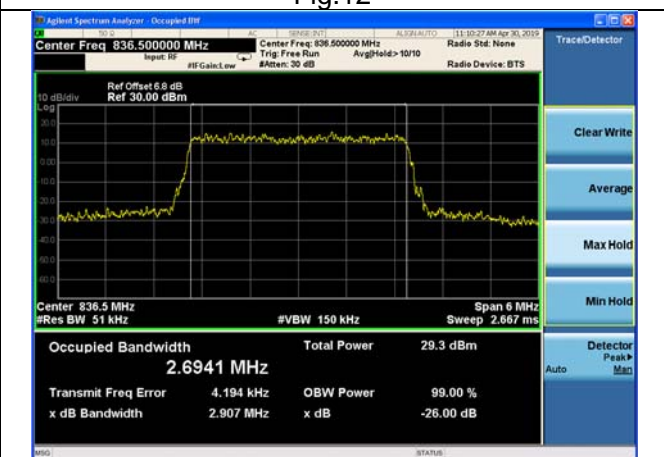


Fig.14

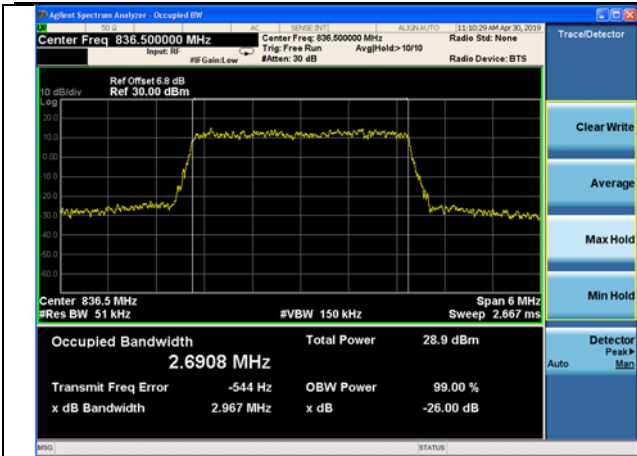


Fig.15

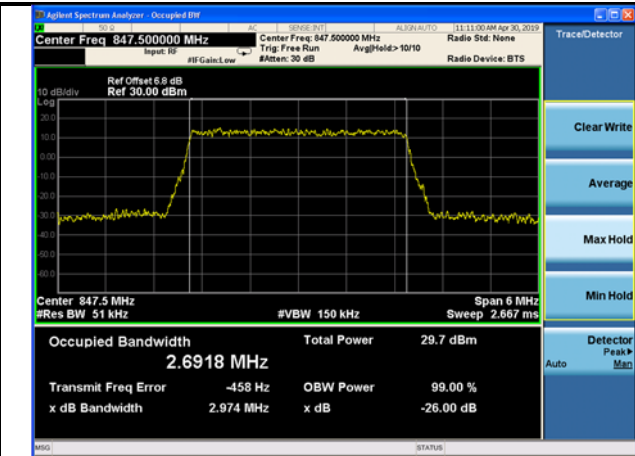


Fig.16

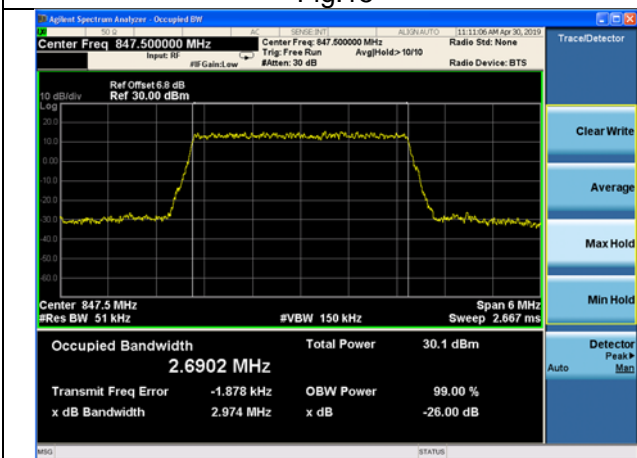


Fig.17

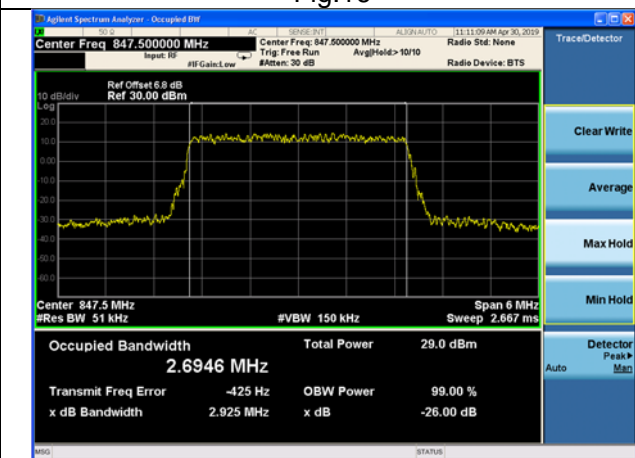


Fig.18

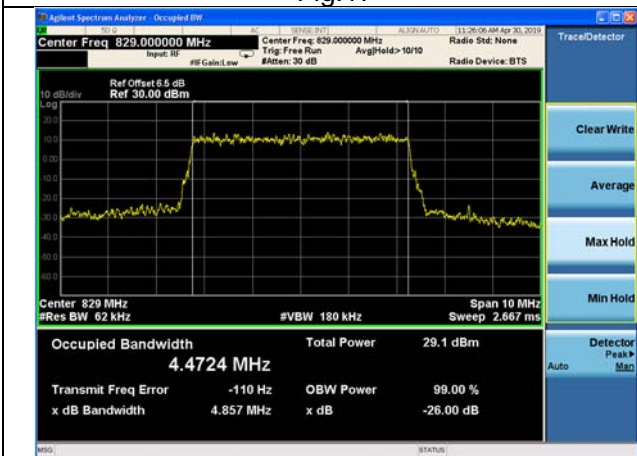


Fig.19

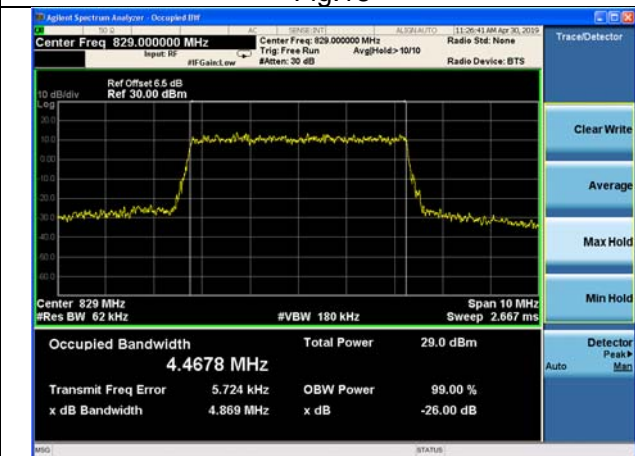


Fig.20

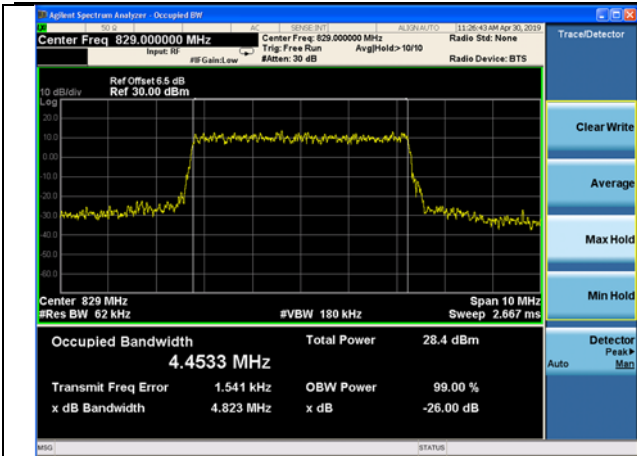


Fig.21

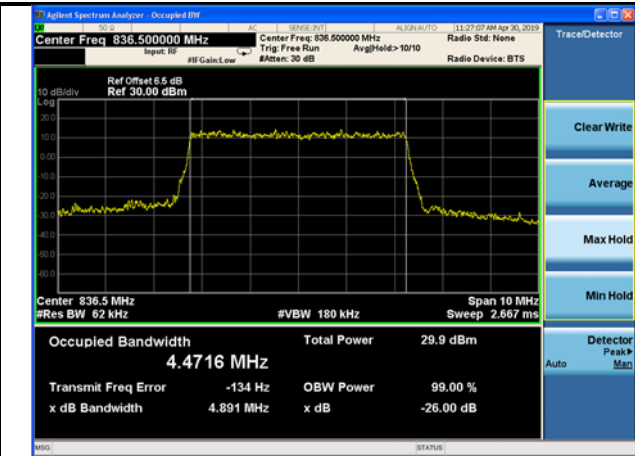


Fig.22

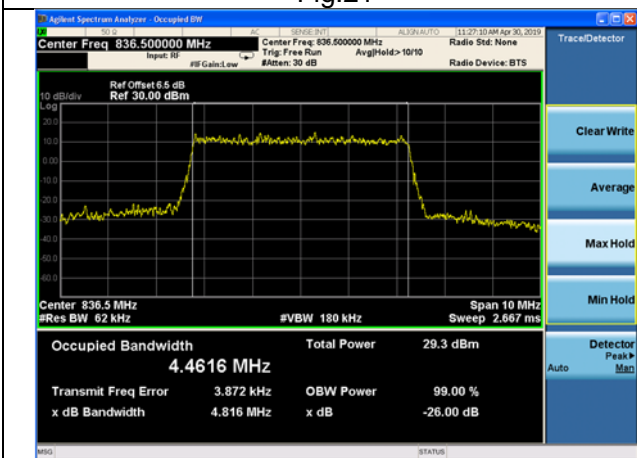


Fig.23

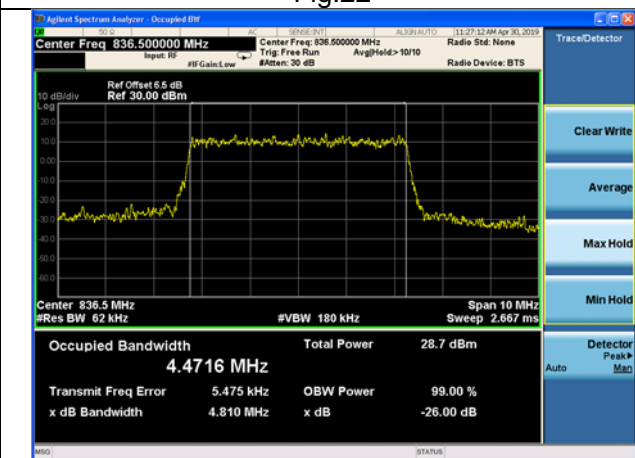


Fig.24

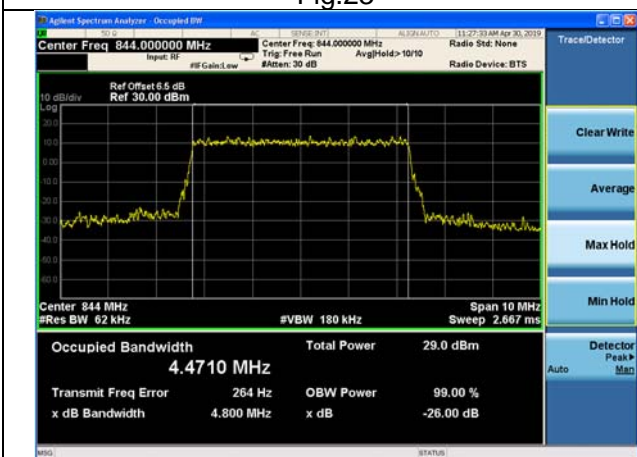


Fig.25

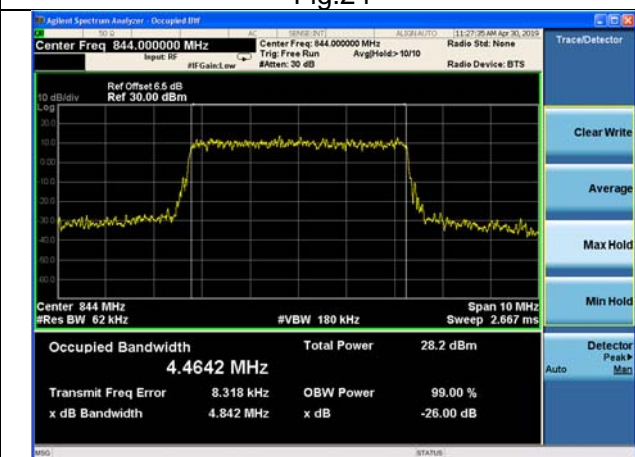


Fig.26

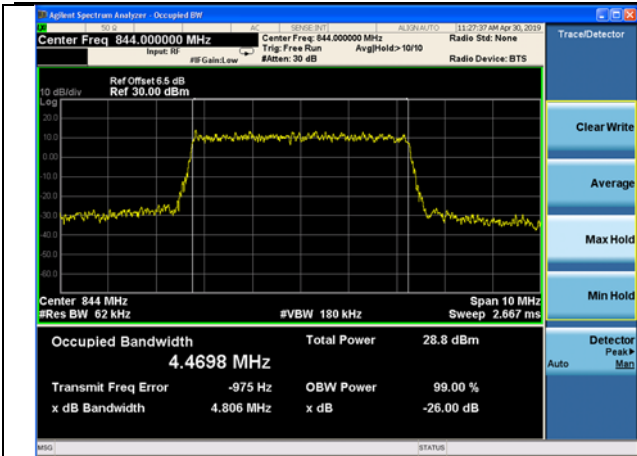


Fig.27



Fig.28

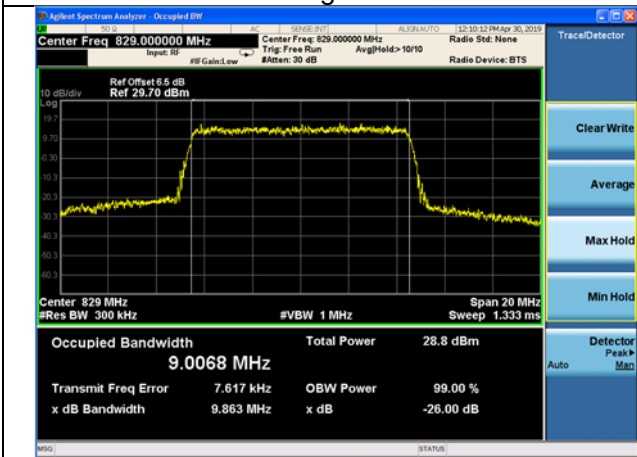


Fig.29

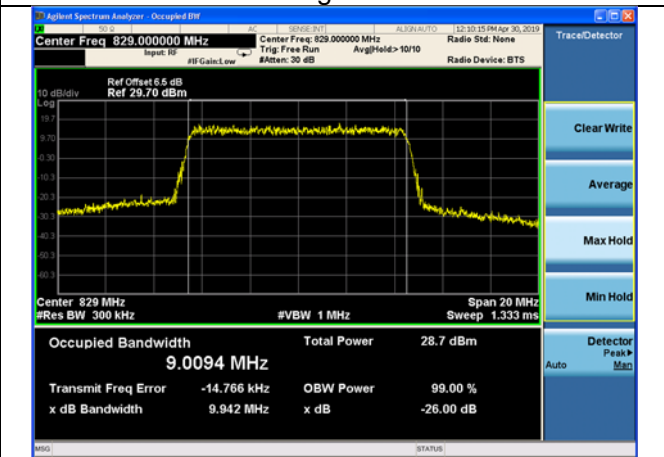


Fig.30

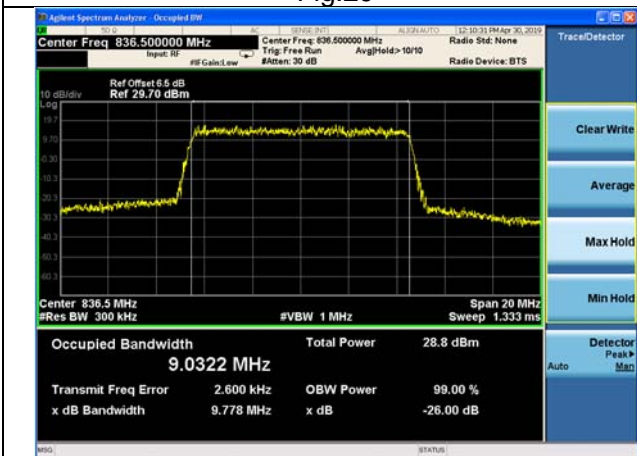


Fig.31

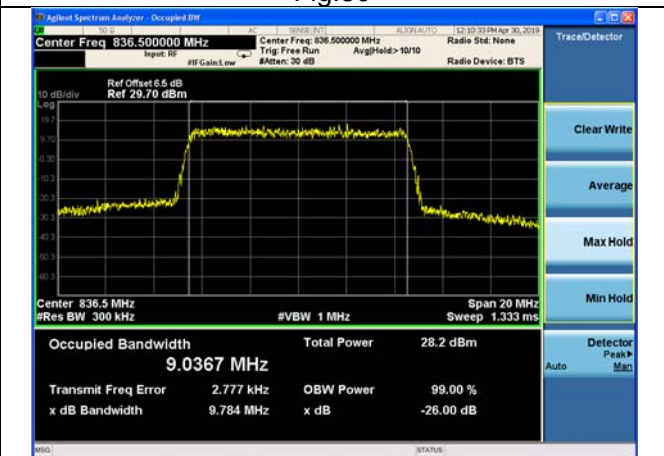


Fig.32

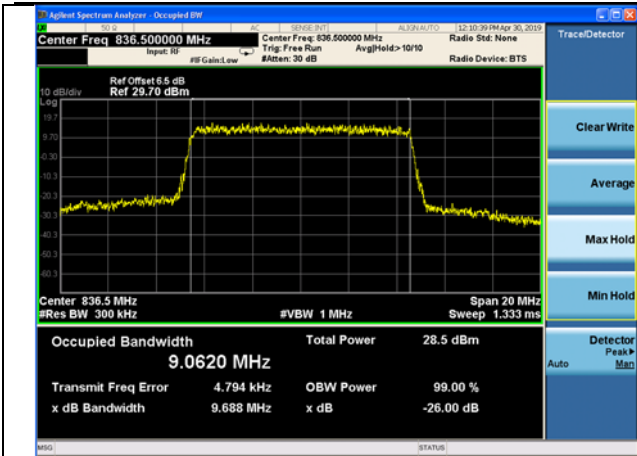


Fig.33

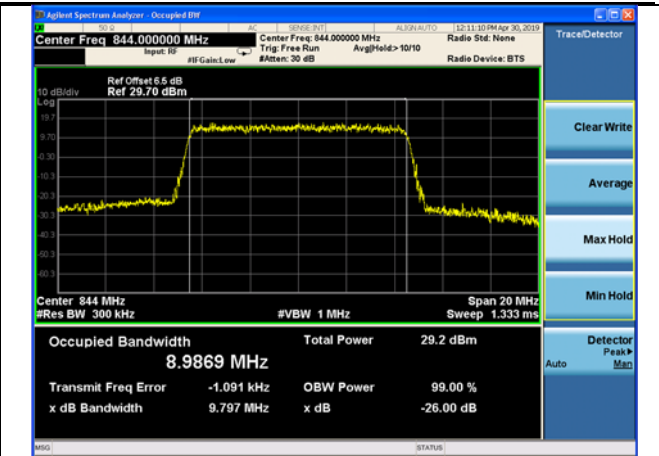


Fig.34

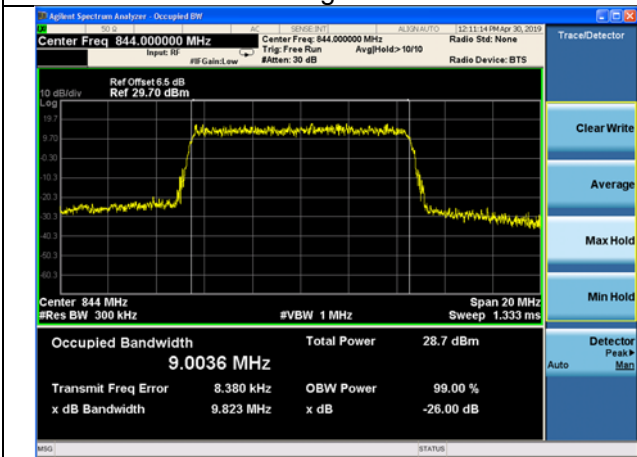


Fig.35

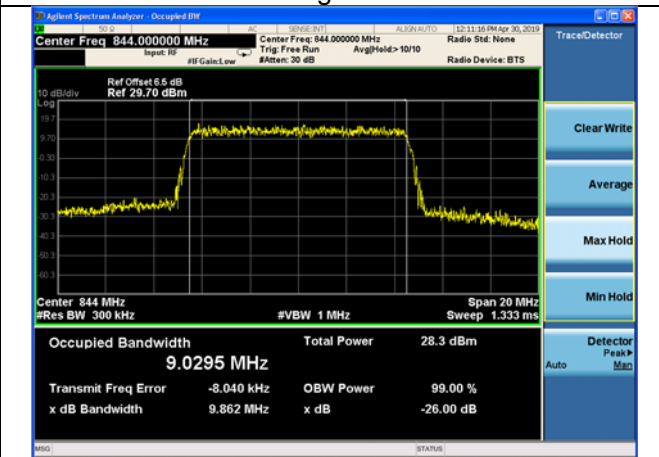


Fig.36

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

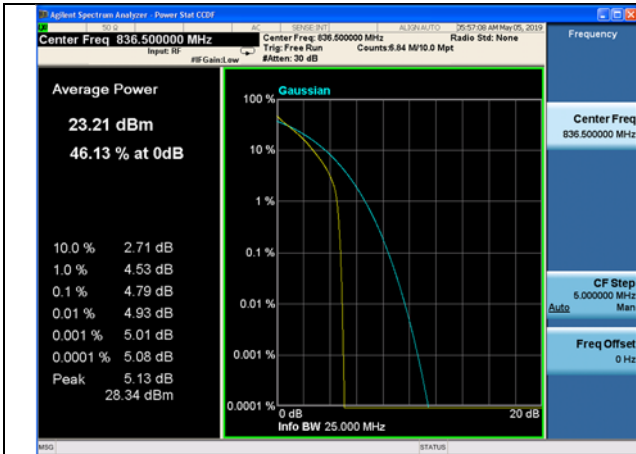


Fig.1

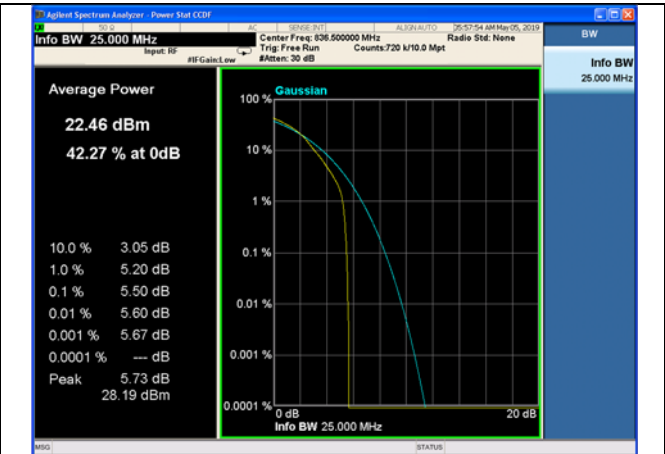


Fig.2

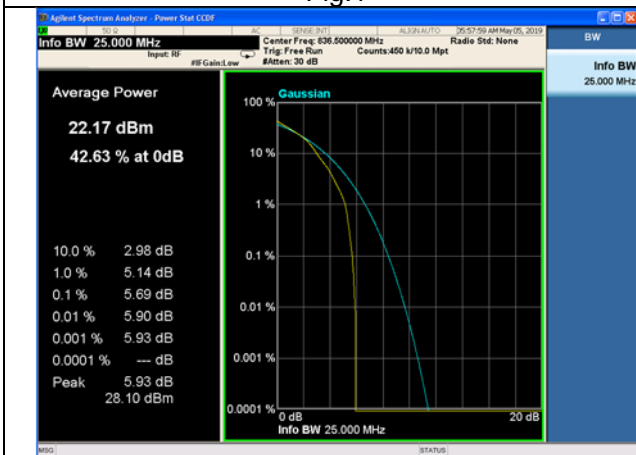


Fig.3

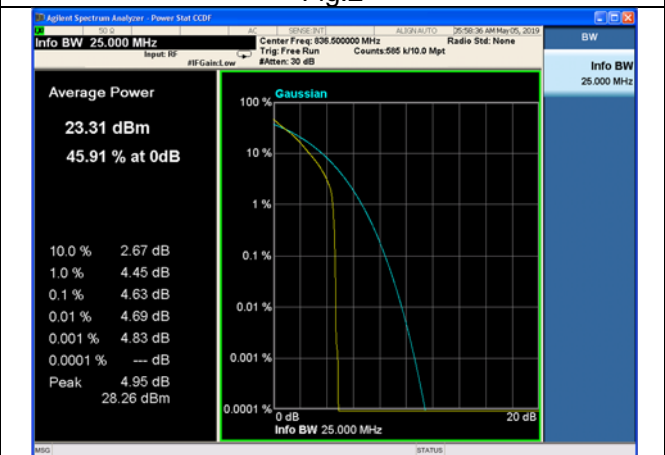


Fig.4

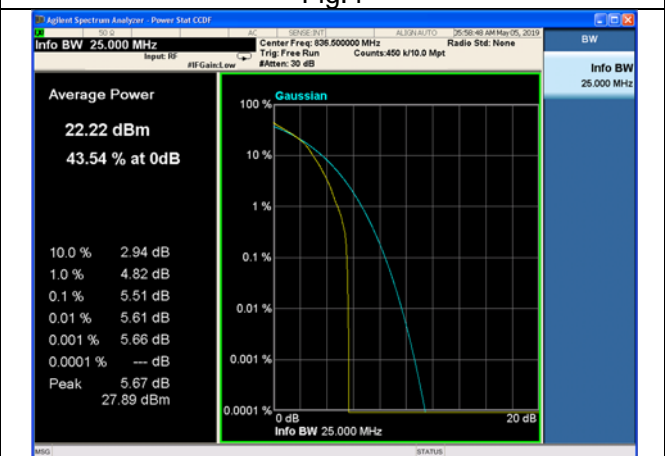
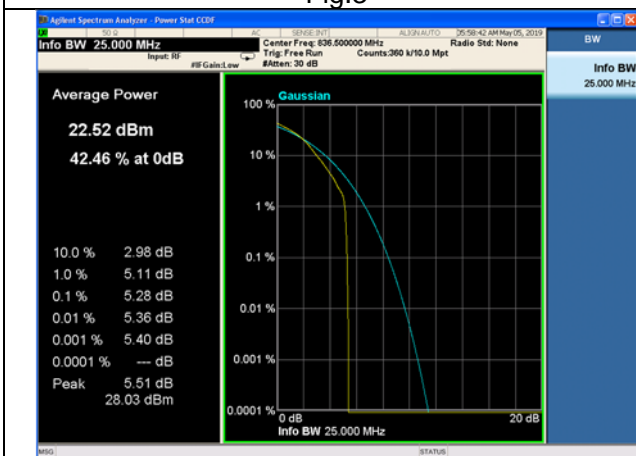


Fig.5



Fig.6

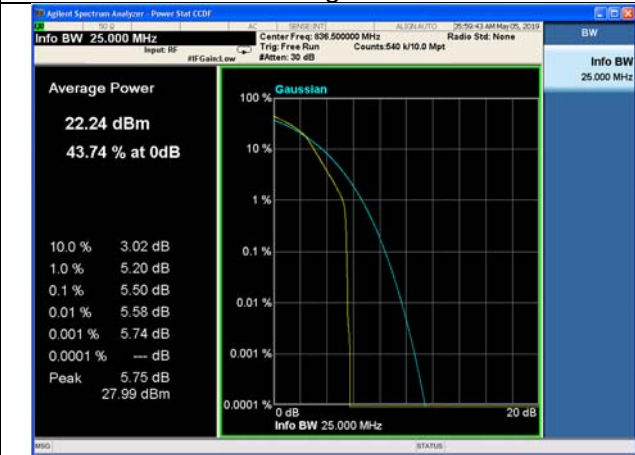


Fig.7

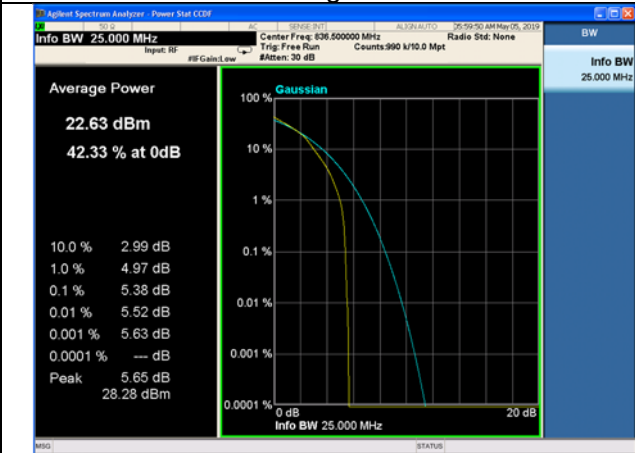


Fig.8

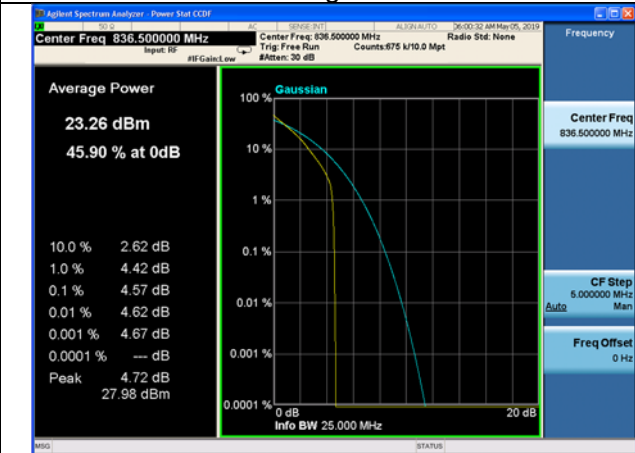


Fig.9

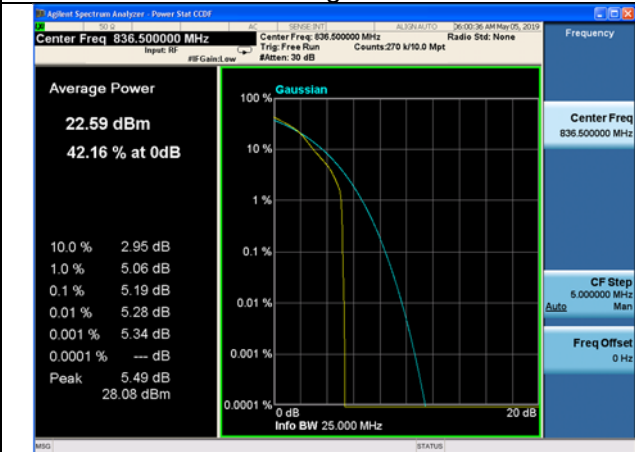


Fig.10

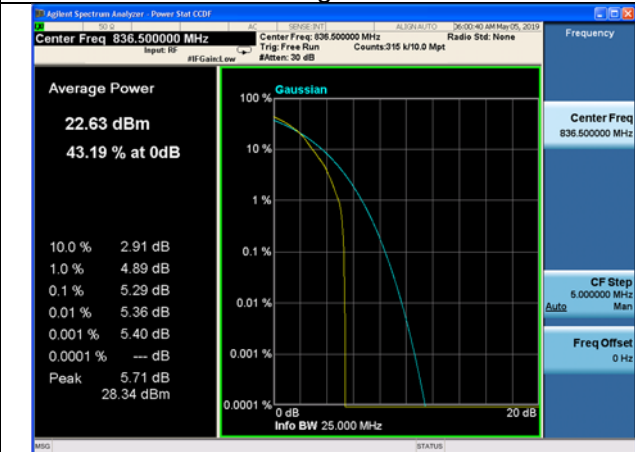


Fig.11

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

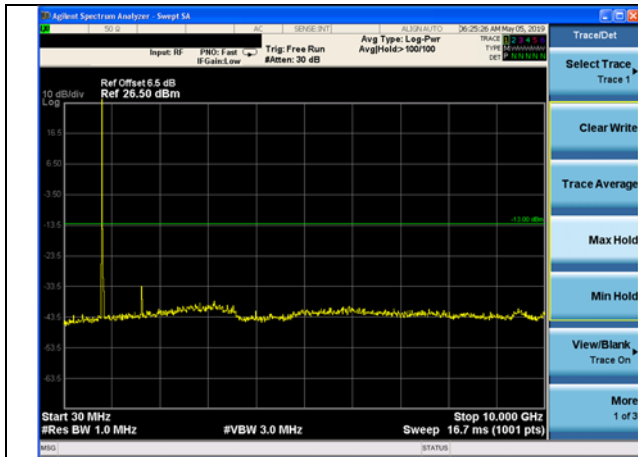


Fig.1

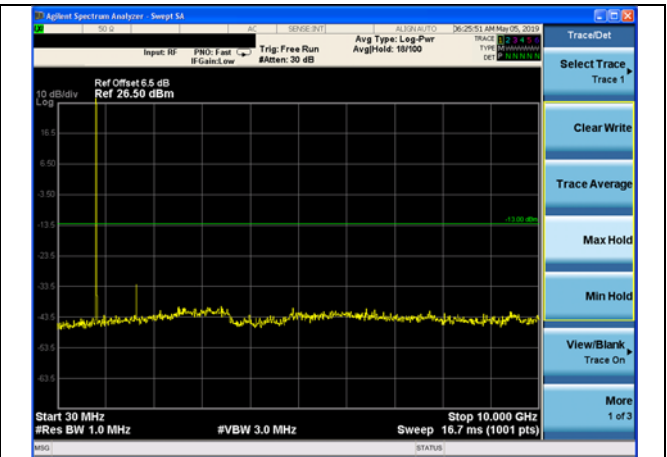


Fig.2

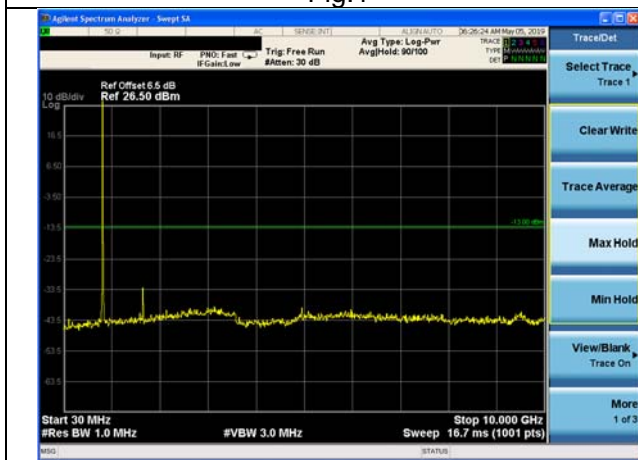


Fig3

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

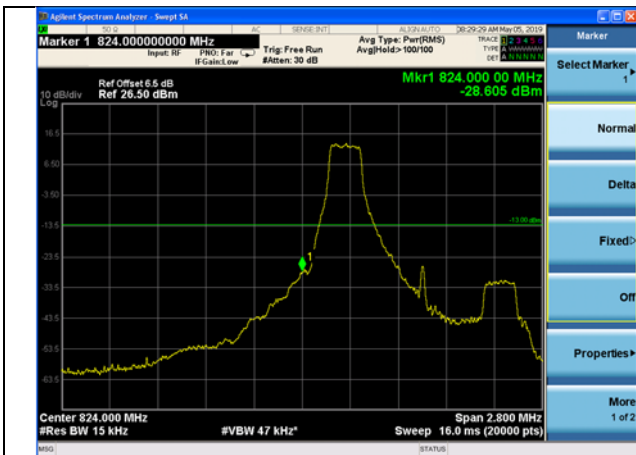


Fig.1

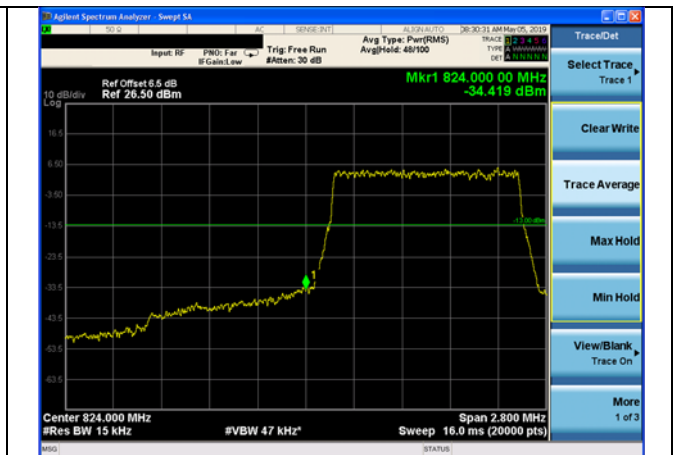


Fig.2



Fig.3

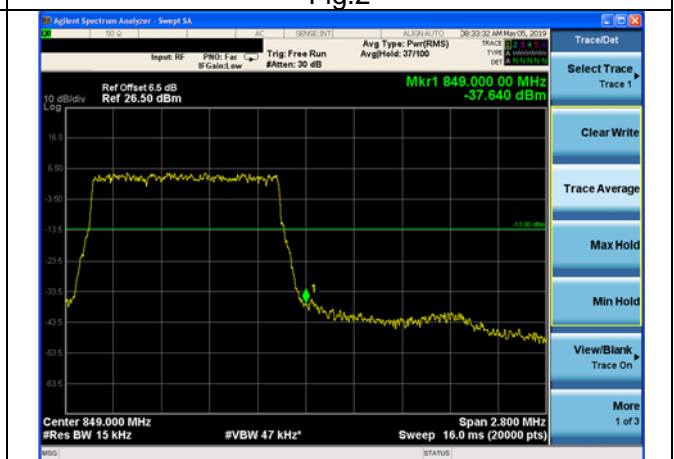


Fig.4

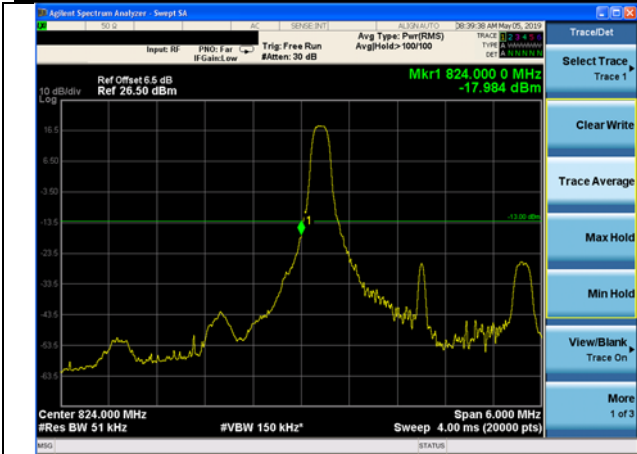


Fig.5

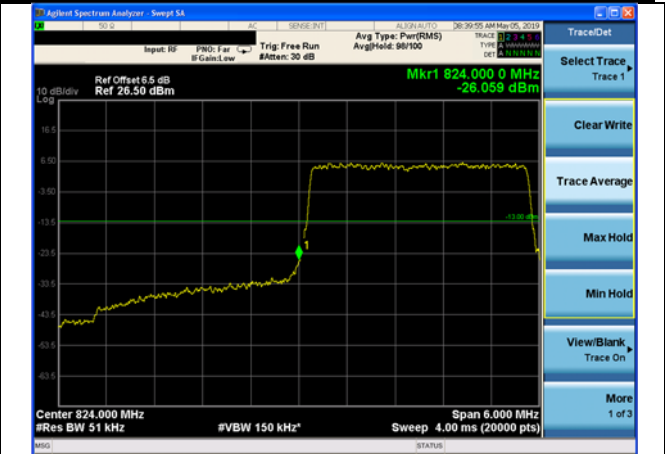


Fig.6

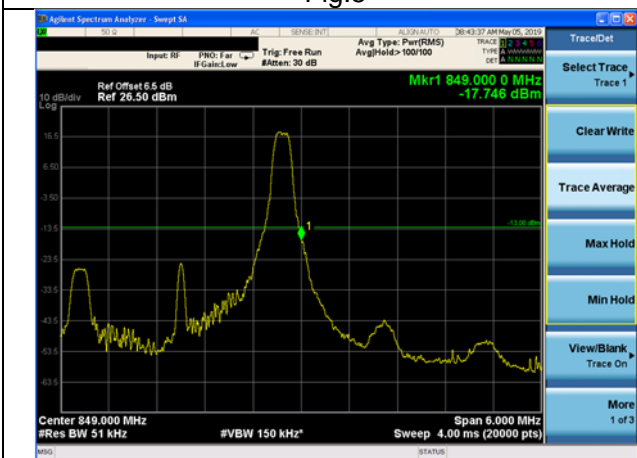


Fig.7

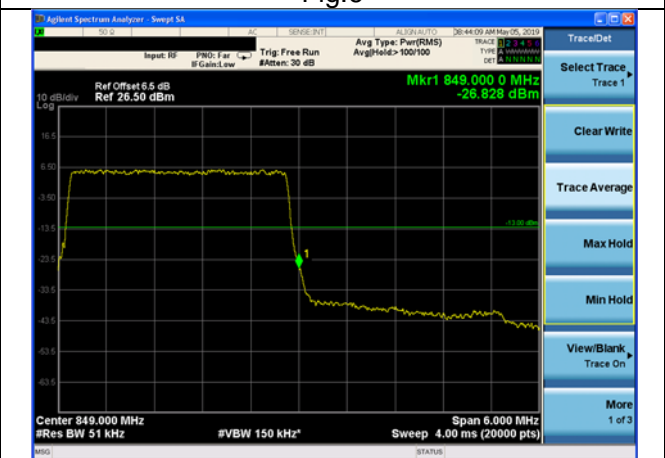


Fig.8

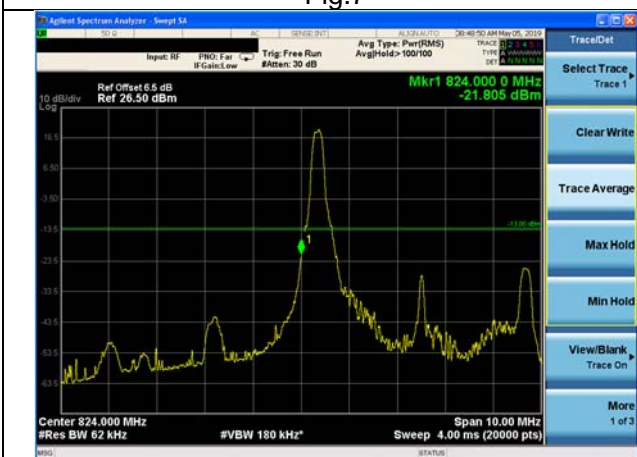


Fig.9

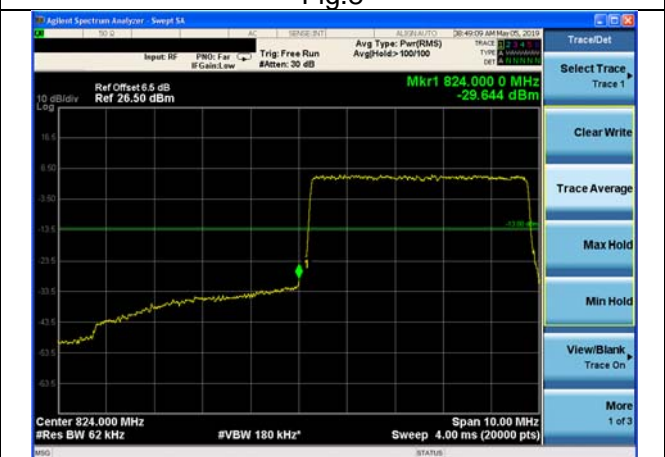


Fig.10