

## **APPENDIX A – TEST DATA OF CONDUCTED EMISSION**

### **LTE Band 26 1 RF Power Output**

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	824.7	26797	1.4	1	0	23.82
				1	5	24.28
				3	2	22.72
				6	0	22.78
	836.5	26915		1	0	24.03
				1	5	23.95
				3	2	22.59
				6	0	22.73
	848.3	27033		1	0	23.77
				1	5	23.89
				3	2	22.53
				6	0	22.81
16QAM	824.7	26797	1.4	1	0	22.77
				1	5	22.82
				3	2	21.69
				6	0	21.55
	836.5	26915		1	0	23.00
				1	5	23.05
				3	2	21.77
				6	0	21.65
	848.3	27033		1	0	22.85
				1	5	22.65
				3	2	21.56
				6	0	21.71
64QAM	824.7	26797	1.4	1	0	22.79
				1	5	23.05
				3	2	21.93
				6	0	21.84
	836.5	26915		1	0	22.47
				1	5	22.96
				3	2	21.89
				6	0	21.51
	848.3	27033		1	0	22.71
				1	5	22.89
				3	2	21.64
				6	0	21.82

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	26805	3	1	0	24.25
				1	14	24.01
				8	4	22.59
				15	0	22.80
	836.5	26915		1	0	23.93
				1	14	23.79
				8	4	22.61
	847.5	27025		15	0	22.68
				1	0	24.03
16QAM	825.5	26805	3	1	0	22.84
				1	14	22.89
				8	4	21.72
				15	0	21.47
	836.5	26915		1	0	22.98
				1	14	22.96
				8	4	21.63
	847.5	27025		15	0	21.66
				1	0	22.53
64QAM	825.5	26805	3	1	14	22.69
				1	14	22.73
				8	4	21.59
				15	0	21.45
	836.5	26915		1	0	23.12
				1	14	22.79
				8	4	21.68
	847.5	27025		15	0	21.61
				1	0	23.00
64QAM	825.5	26805	3	1	14	23.02
				8	4	21.55
				15	0	21.83
				1	0	22.69
	836.5	26915		1	14	22.73
				8	4	21.59
				15	0	21.45
	847.5	27025		1	0	23.12
				1	14	22.79
847.5	27025	8	4	21.68		
		15	0	21.61		
		1	0	23.00		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	26815	5	1	0	24.12
				1	24	23.88
				12	6	22.70
				25	0	22.53
	836.5	26915		1	0	23.95
				1	24	23.62
				12	6	22.69
	846.5	27015		25	0	22.48
				1	0	23.84
1			24	23.80		
16QAM	826.5	26815	5	12	6	22.69
				25	0	22.48
				1	0	23.84
				1	24	23.80
	836.5	26915		12	6	22.69
				25	0	22.62
				1	0	22.92
	846.5	27015		1	24	22.71
				12	6	21.61
25			0	21.62		
64QAM	826.5	26815	5	1	0	23.34
				1	24	23.36
				12	6	21.58
				25	0	21.40
	836.5	26915		1	0	22.80
				1	24	22.84
				12	6	21.64
	846.5	27015		25	0	21.74
				1	0	22.96
1			24	22.97		
64QAM	826.5	26815	5	12	6	21.52
				25	0	21.57
				1	0	22.82
				1	24	22.55
	836.5	26915		12	6	21.58
				25	0	21.67
				1	0	22.96
	846.5	27015		1	24	22.97
				12	6	21.79
25			0	21.41		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	26840	10	1	0	24.08
				1	49	24.29
				24	12	22.86
				50	0	22.72
	836.5	26915		1	0	23.65
				1	49	24.01
				24	12	22.61
				50	0	22.57
	844	26990		1	0	23.98
				1	49	24.20
				24	12	22.69
				50	0	22.71
16QAM	829	26840	10	1	0	22.90
				1	49	22.50
				24	12	21.72
				50	0	21.77
	836.5	26915		1	0	23.27
				1	49	23.02
				24	12	21.84
				50	0	21.64
	844	26990		1	0	22.71
				1	49	22.69
				24	12	21.81
				50	0	21.65
64QAM	829	26840	10	1	0	22.79
				1	49	22.96
				24	12	21.66
				50	0	21.83
	836.5	26915		1	0	22.67
				1	49	22.83
				24	12	21.68
				50	0	21.42
	844	26990		1	0	23.18
				1	49	22.90
				24	12	21.59
				50	0	21.34

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	831.5	26865	15	1	0	24.31
				1	74	24.31
				40	18	22.94
	836.5	26915		75	0	22.98
				1	0	24.09
				1	74	24.09
	841.5	26965		40	18	22.92
				75	0	22.93
				1	0	24.27
			1	74	24.27	
			40	18	22.87	
			75	0	22.91	
16QAM	831.5	26865	15	1	0	23.00
				1	74	23.00
				40	18	21.94
	836.5	26915		75	0	21.87
				1	0	23.43
				1	74	23.43
	841.5	26965		40	18	21.87
				75	0	21.89
				1	0	22.98
			1	74	22.98	
			40	18	21.86	
			75	0	21.84	
64QAM	831.5	26865	15	1	0	23.19
				1	74	23.19
				40	18	21.99
	836.5	26915		75	0	21.92
				1	0	22.97
				1	74	22.97
	841.5	26965		40	18	22.03
				75	0	21.88
				1	0	23.18
			1	74	23.18	
			40	18	21.94	
			75	0	21.84	

## 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	
26	824.7	26797	1.4	6	0	1.0814	Fig.1	1.0801	Fig.2	1.0793	Fig.3
	836.5	26915		6	0	1.0805	Fig.4	1.0800	Fig.5	1.0762	Fig.6
	848.3	27033		6	0	1.0763	Fig.7	1.0773	Fig.8	1.0838	Fig.9
	825.5	26805	3	15	0	2.6986	Fig.10	2.7024	Fig.11	2.7032	Fig.12
	836.5	26915		15	0	2.6939	Fig.13	2.6923	Fig.14	2.6951	Fig.15
	847.5	27025		15	0	2.7015	Fig.16	2.6996	Fig.17	2.6895	Fig.18
	826.5	26815	5	25	0	4.4672	Fig.19	4.4823	Fig.20	4.4711	Fig.21
	836.5	26915		25	0	4.4736	Fig.22	4.4669	Fig.23	4.4711	Fig.24
	846.5	27015		25	0	4.4653	Fig.25	4.4559	Fig.26	4.4629	Fig.27
	829	26840	10	50	0	8.9540	Fig.28	8.9464	Fig.29	8.9421	Fig.30
	836.5	26915		50	0	8.9284	Fig.31	8.9472	Fig.32	8.9375	Fig.33
	844	26990		50	0	8.9490	Fig.34	8.9501	Fig.35	8.9535	Fig.36
	831.5	26865	15	75	0	13.393	Fig.37	13.396	Fig.38	13.406	Fig.39
	836.5	26915		75	0	13.408	Fig.40	13.396	Fig.41	13.380	Fig.42
	841.5	26965		75	0	13.403	Fig.43	13.372	Fig.44	13.381	Fig.45

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
26	824.7	26797	1.4	6	0	1.252	Fig.1	1.261	Fig.2	1.233	Fig.3
	836.5	26915		6	0	1.224	Fig.4	1.225	Fig.5	1.217	Fig.6
	848.3	27033		6	0	1.210	Fig.7	1.231	Fig.8	1.240	Fig.9
	825.5	26805	3	15	0	3.018	Fig.10	3.027	Fig.11	3.033	Fig.12
	836.5	26915		15	0	3.034	Fig.13	3.021	Fig.14	3.002	Fig.15
	847.5	27025		15	0	2.996	Fig.16	3.028	Fig.17	3.008	Fig.18
	826.5	26815	5	25	0	5.021	Fig.19	5.064	Fig.20	5.034	Fig.21
	836.5	26915		25	0	5.101	Fig.22	5.041	Fig.23	4.914	Fig.24
	846.5	27015		25	0	4.856	Fig.25	5.128	Fig.26	4.962	Fig.27
	829	26840	10	50	0	9.901	Fig.28	9.808	Fig.29	9.716	Fig.30
	836.5	26915		50	0	9.706	Fig.31	9.892	Fig.32	9.835	Fig.33
	844	26990		50	0	9.933	Fig.34	9.833	Fig.35	9.874	Fig.36
	831.5	26865	15	75	0	14.55	Fig.37	14.62	Fig.38	14.44	Fig.39
	836.5	26915		75	0	14.41	Fig.40	14.65	Fig.41	14.54	Fig.42
	841.5	26965		75	0	14.35	Fig.43	14.65	Fig.44	14.27	Fig.45

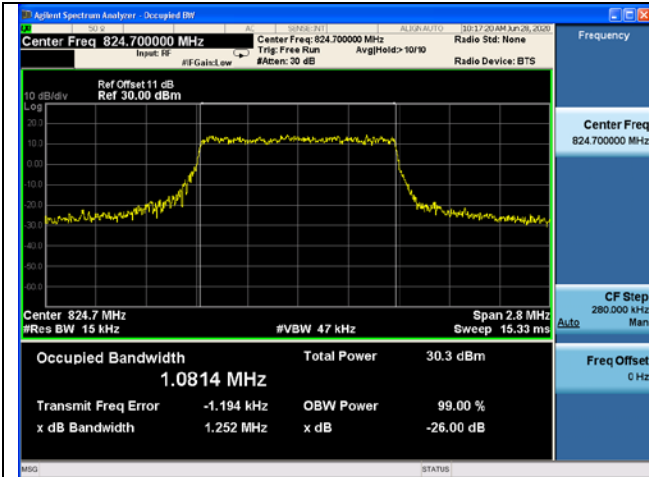


Fig.1

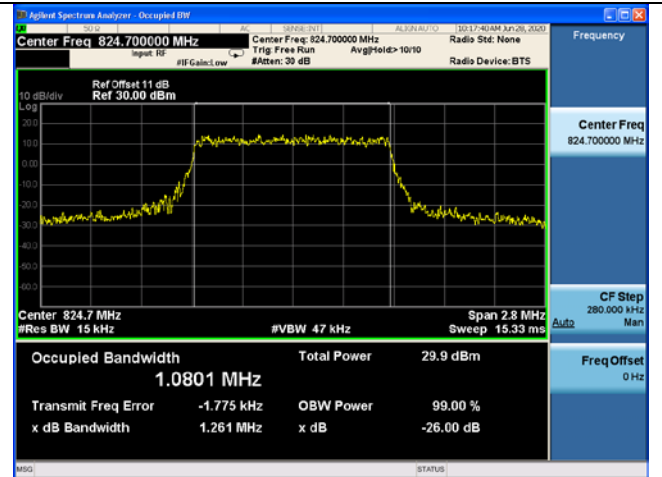


Fig.2

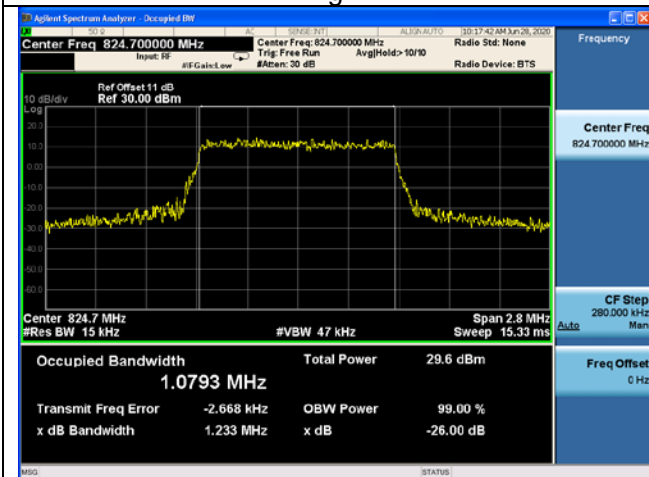


Fig.3

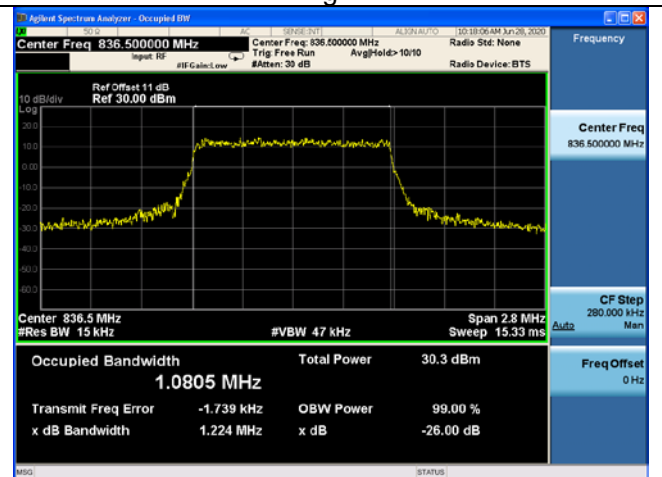


Fig.4

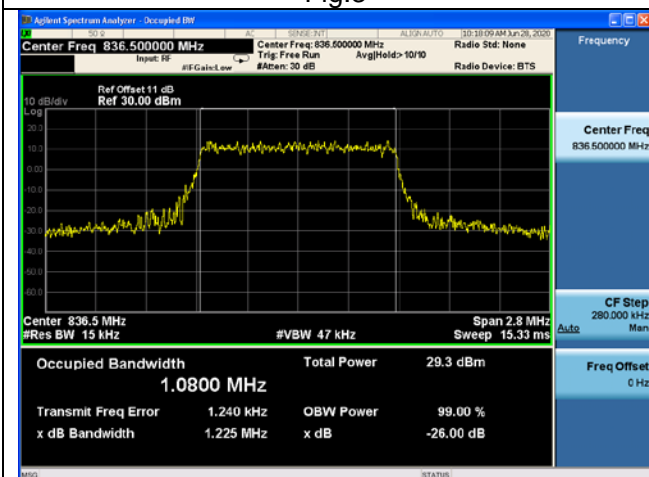


Fig.5

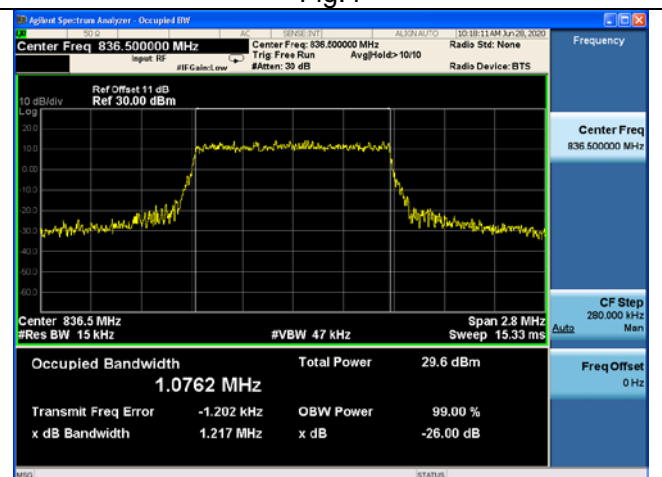


Fig.6

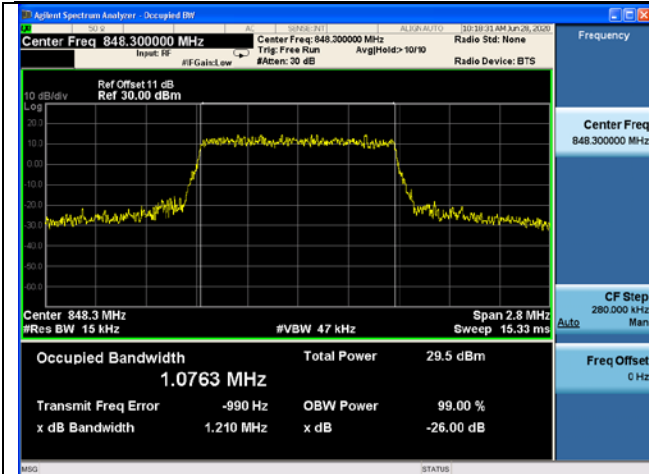


Fig.7

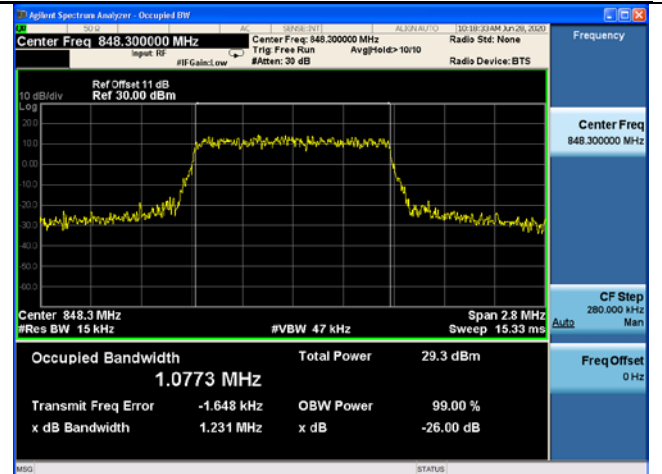


Fig.8

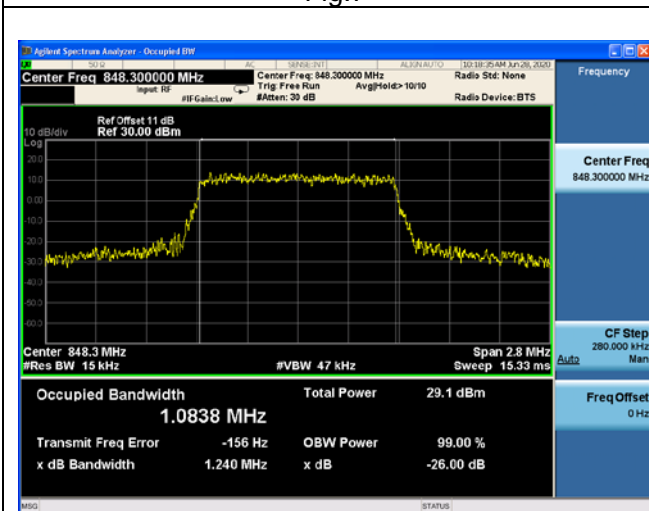


Fig.9

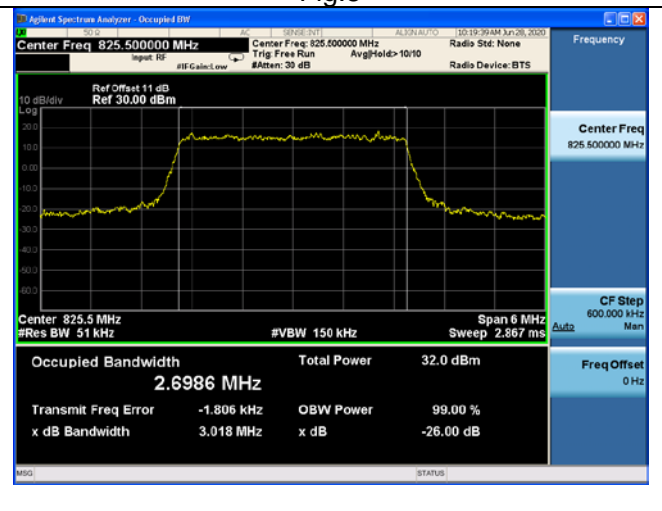


Fig.10

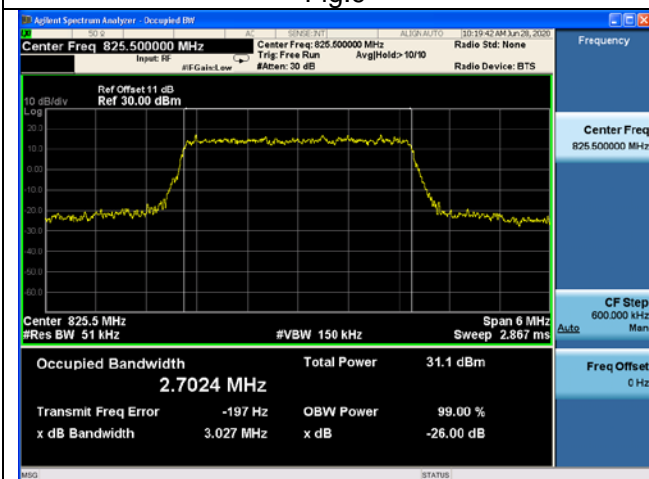


Fig.11

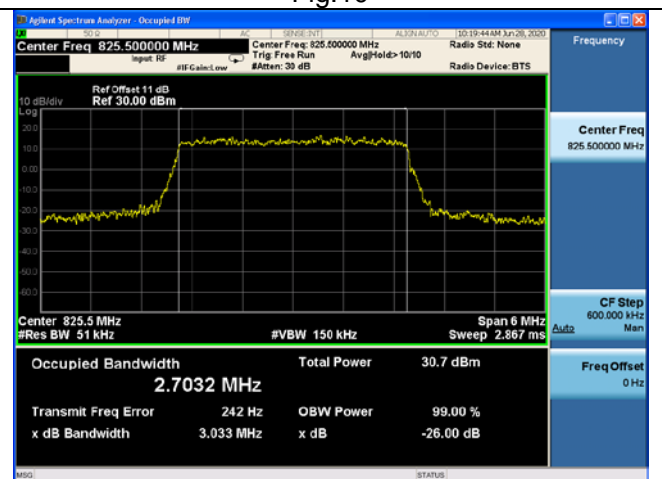


Fig.12



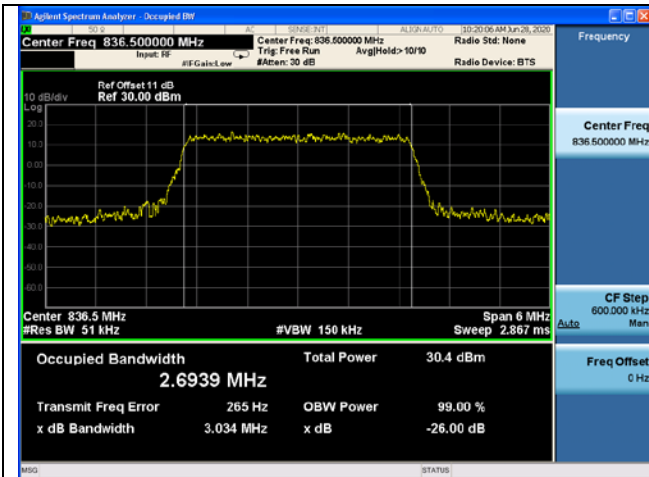


Fig.13

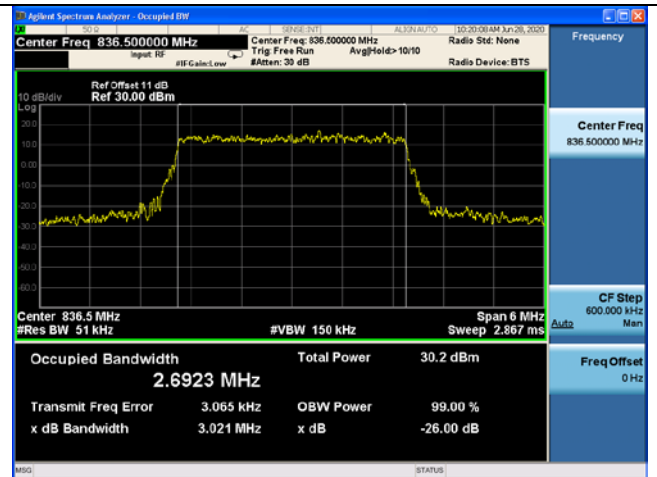


Fig.14

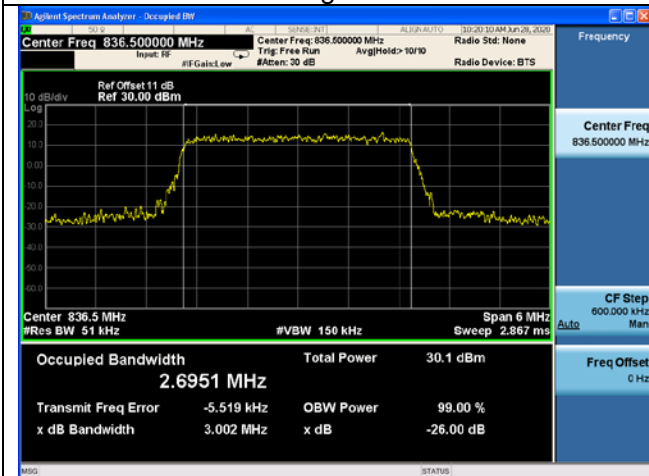


Fig.15

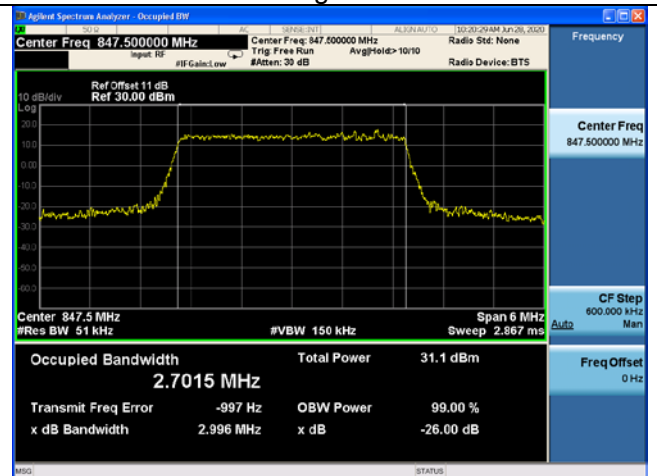


Fig.16

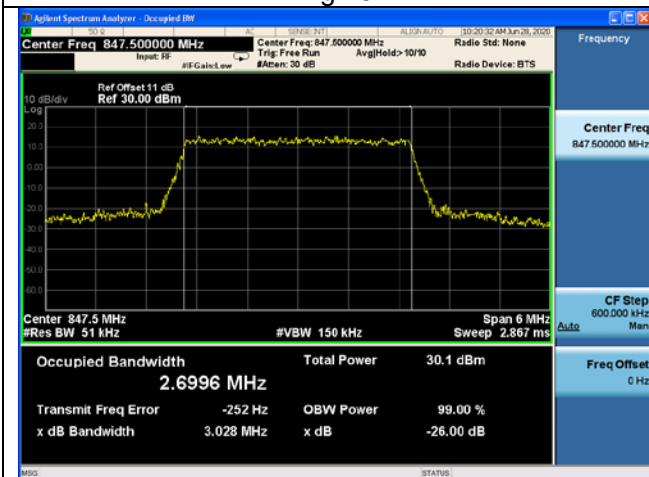


Fig.17

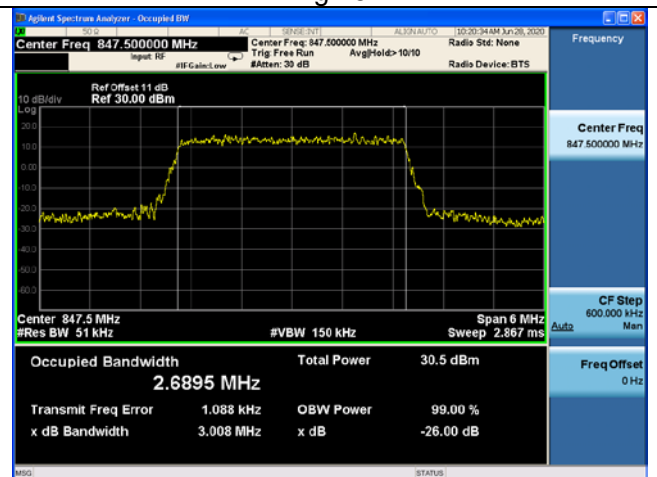


Fig.18

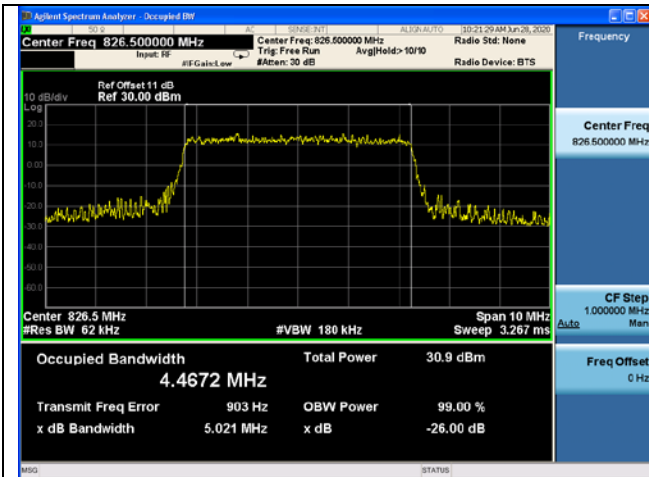


Fig.19

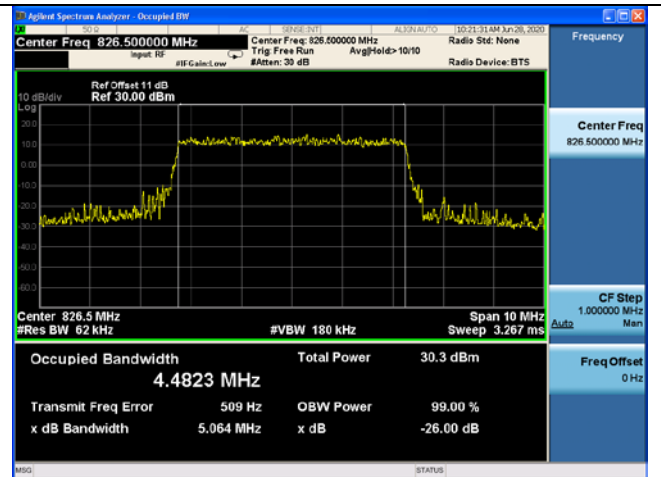


Fig.20

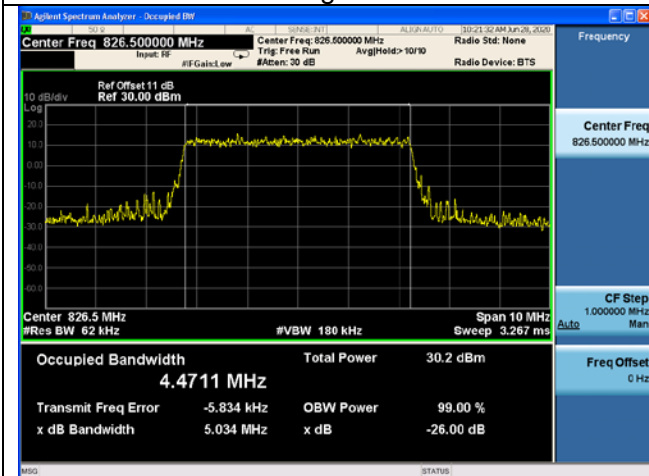


Fig.21

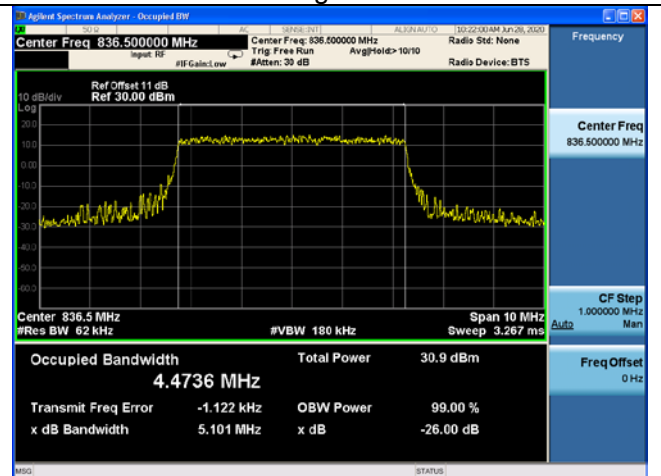


Fig.22

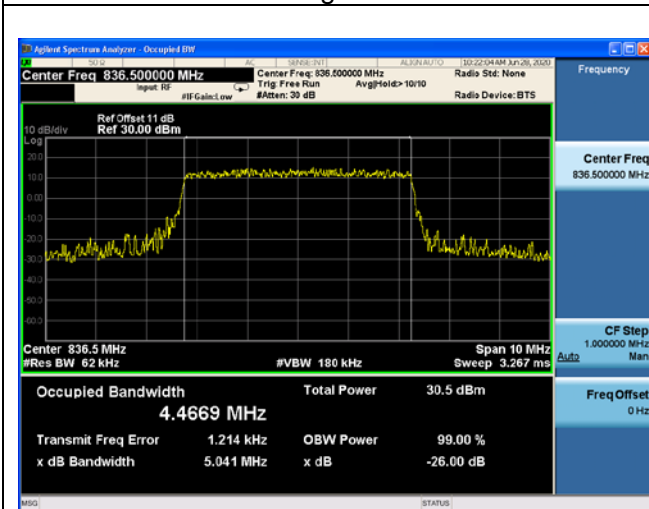


Fig.23

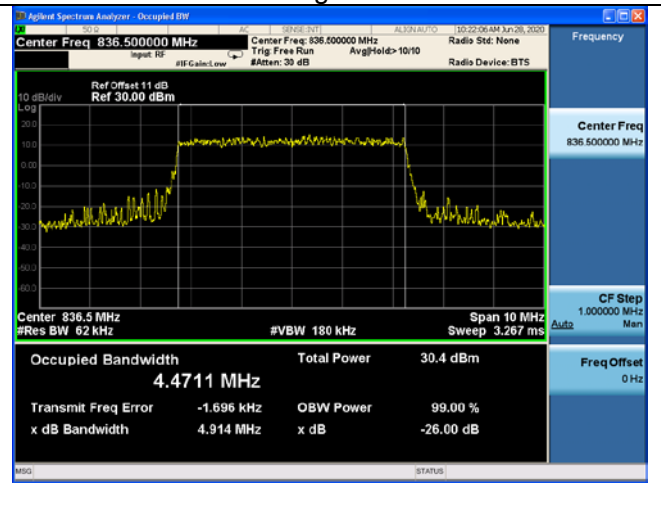


Fig.24

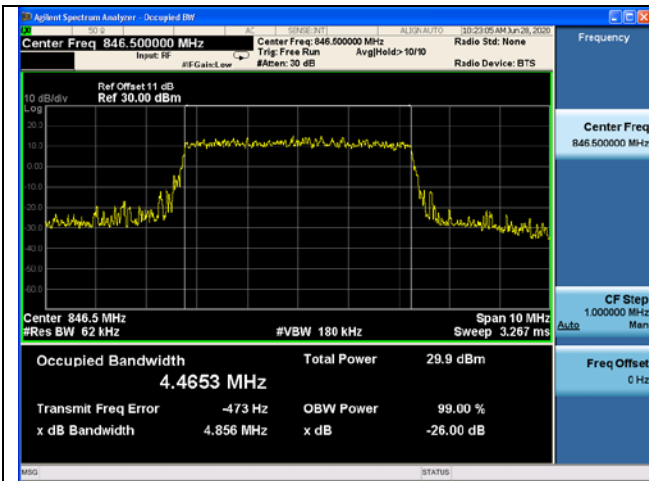


Fig.25

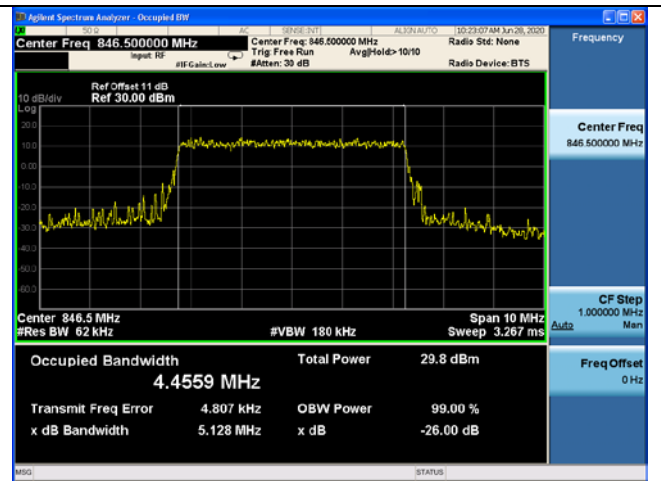


Fig.26

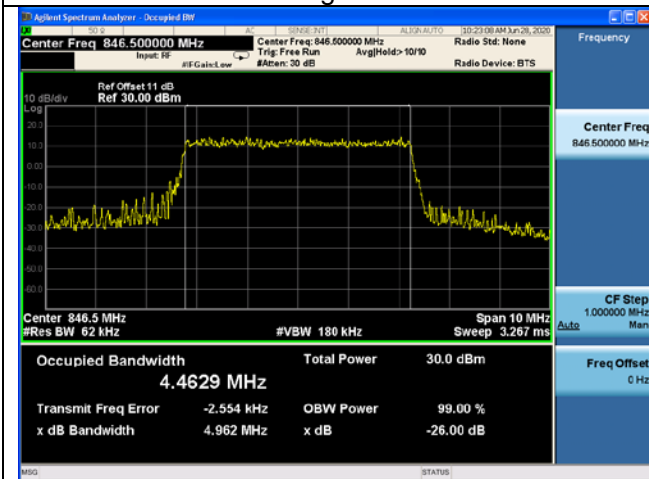


Fig.27

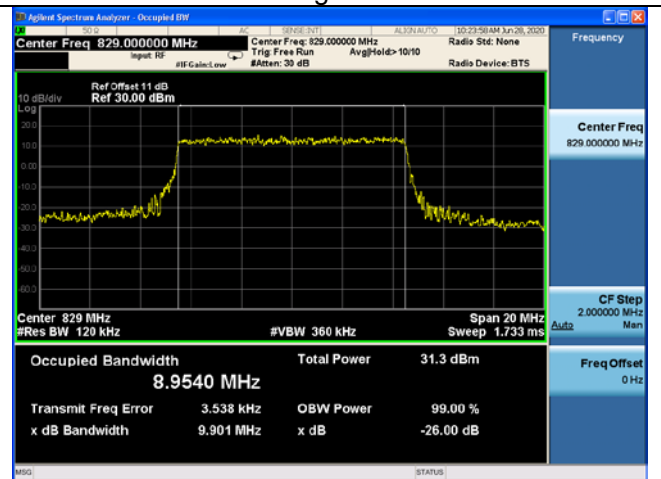


Fig.28

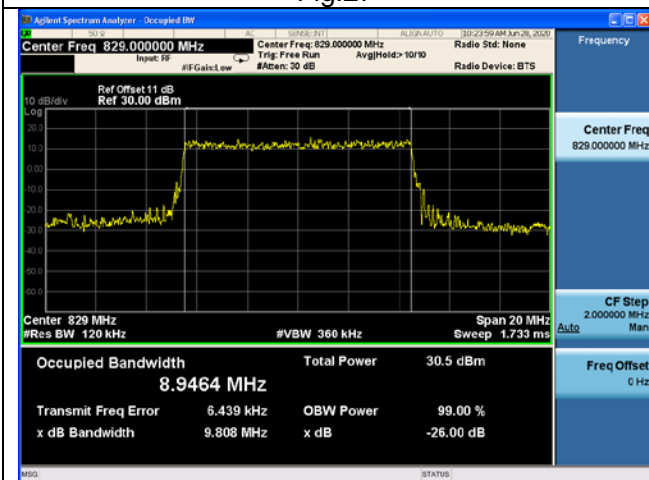


Fig.29

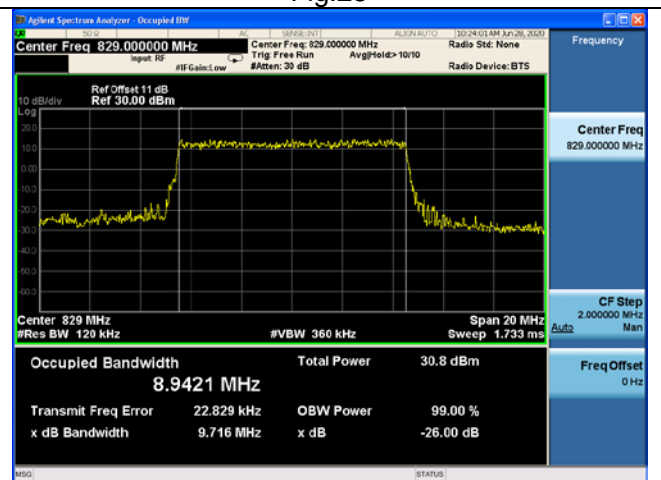


Fig.30

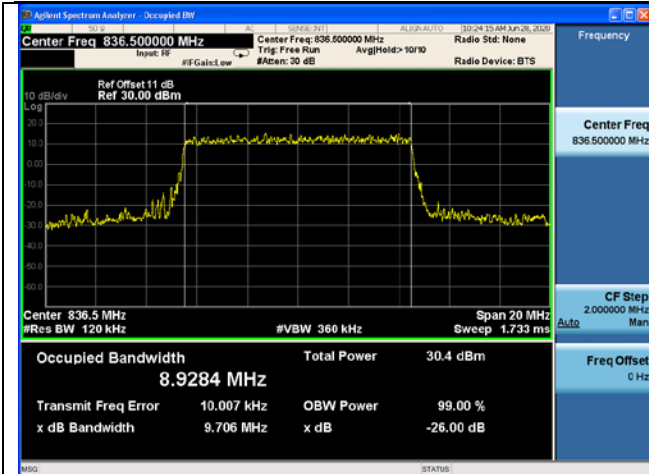


Fig.31

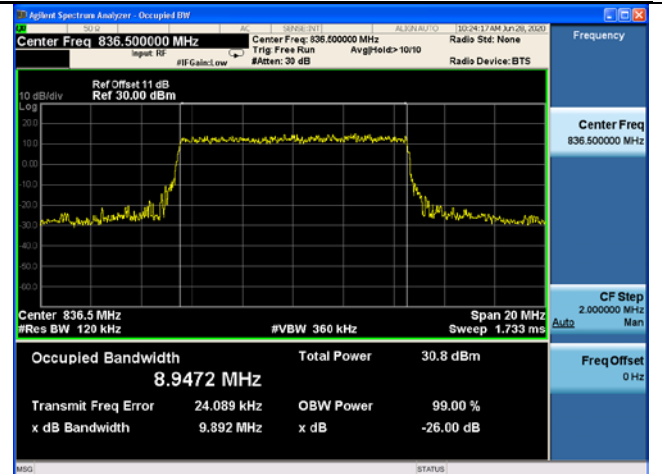


Fig.32

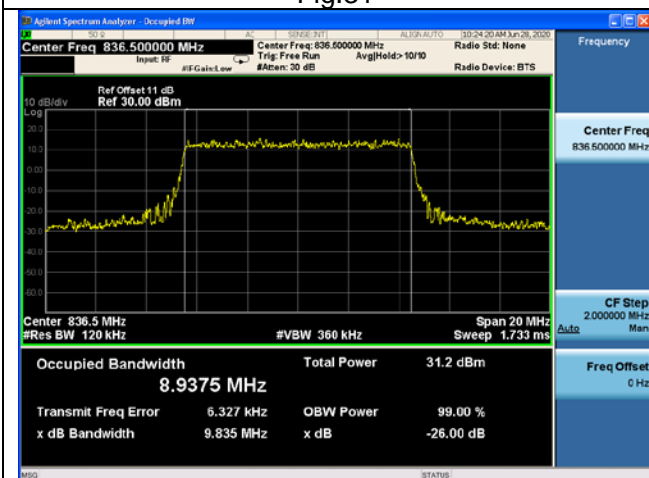


Fig.33

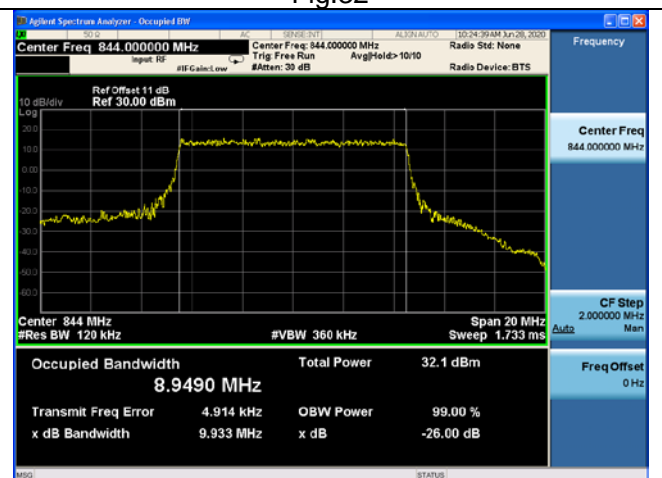


Fig.34

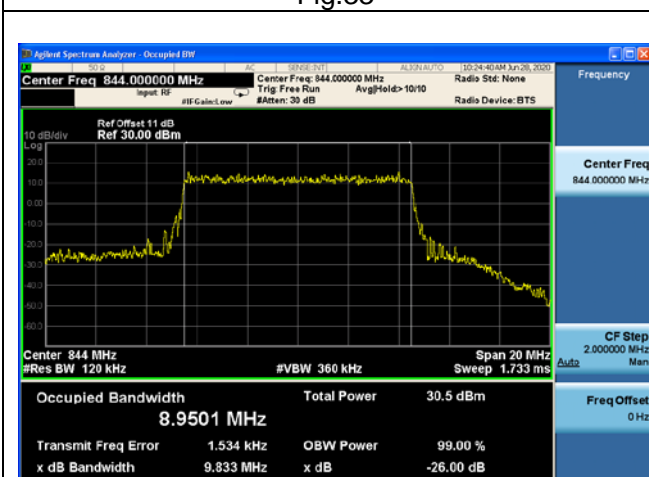


Fig.35

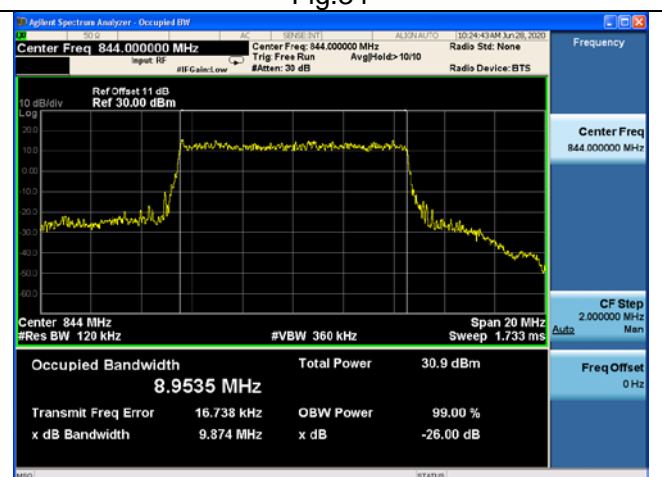


Fig.36

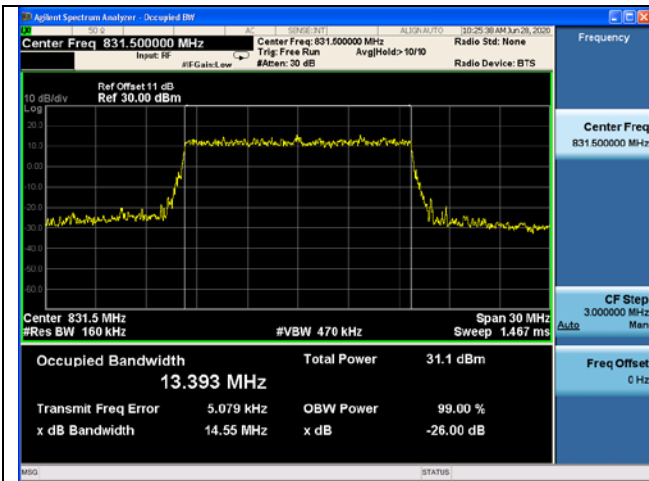


Fig.37

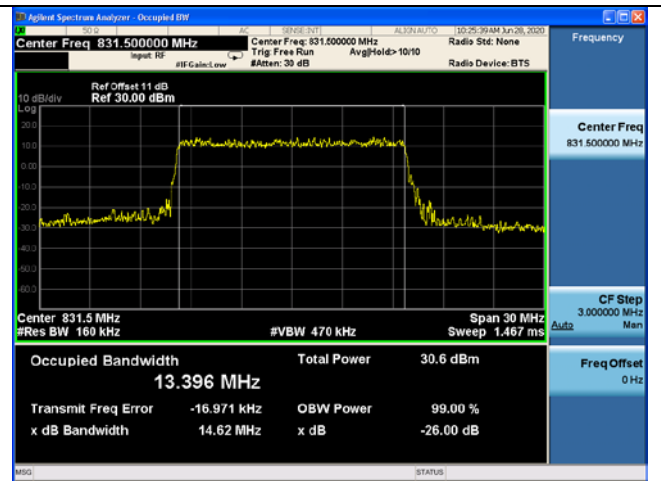


Fig.38

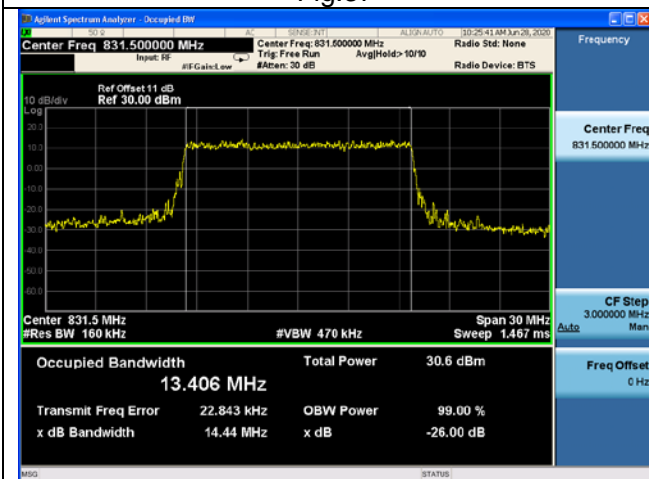


Fig.39

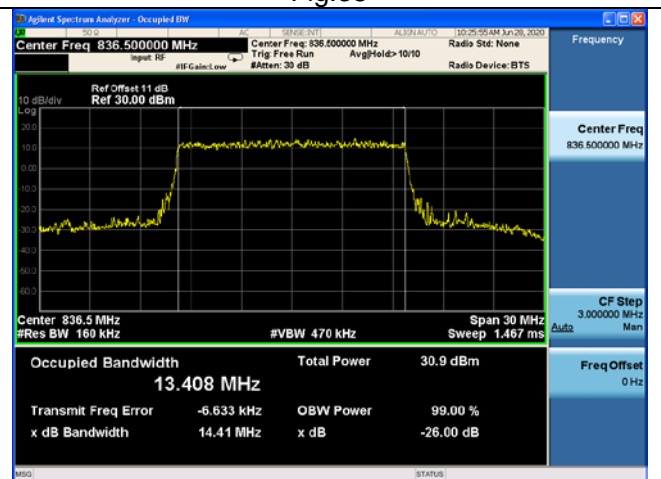


Fig.40

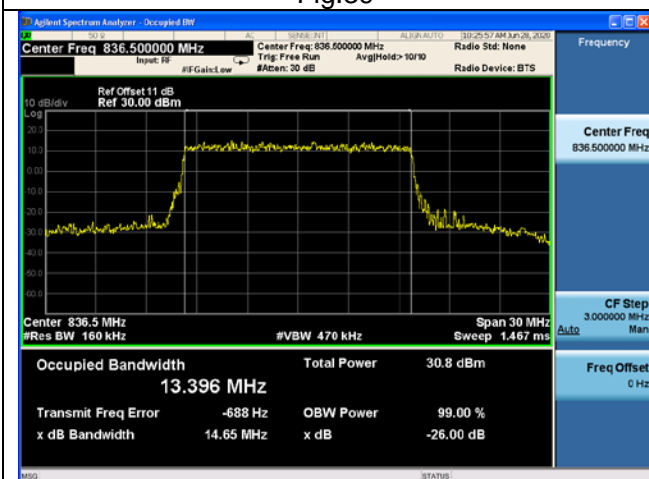


Fig.41

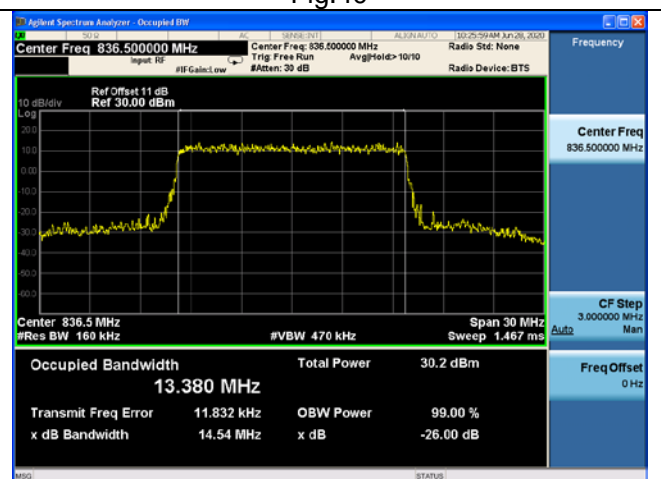


Fig.42

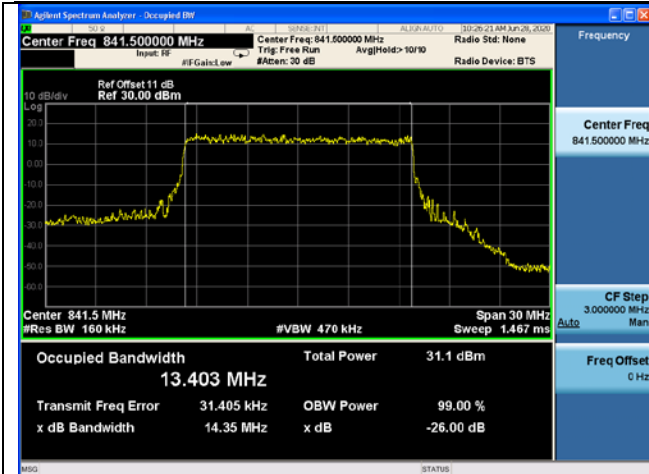


Fig.43

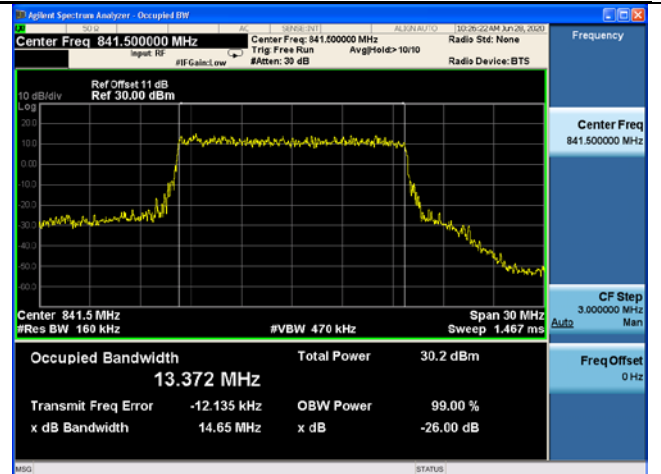


Fig.44

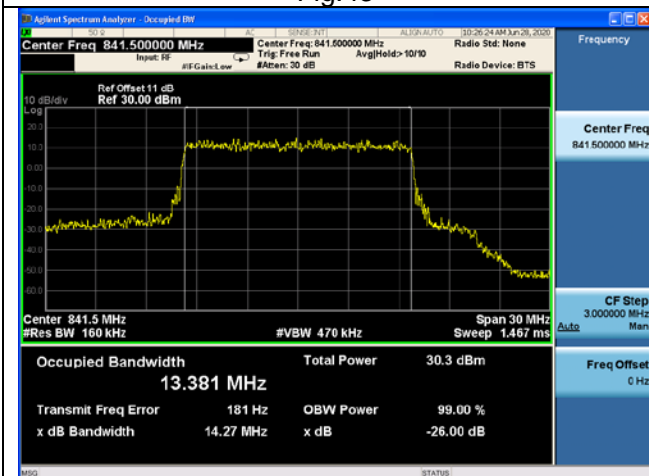


Fig.45

### 3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
26	836.5	26915	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
			15	1	0	Fig.13	Fig.14	Fig.15

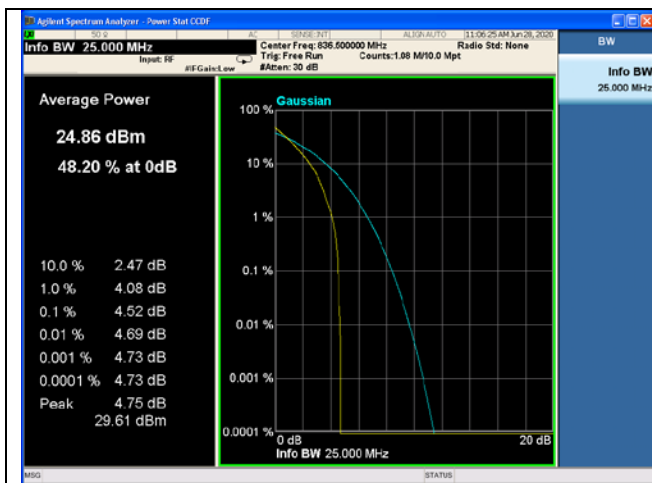


Fig.1

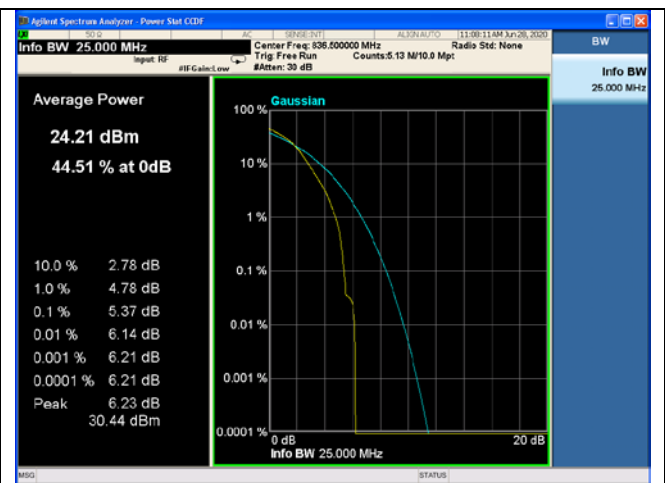


Fig.2

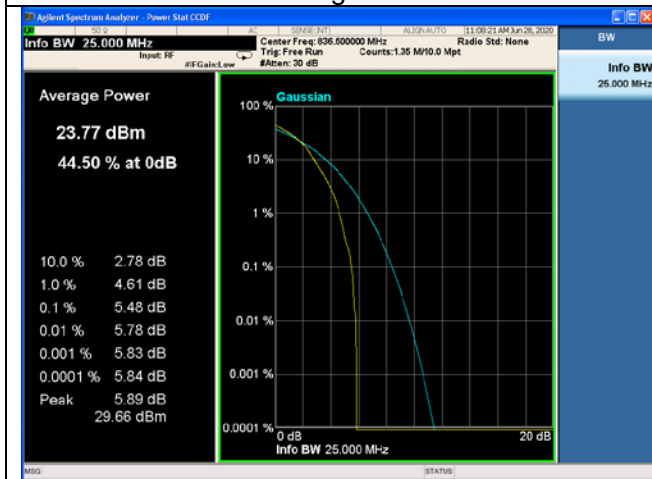


Fig.3

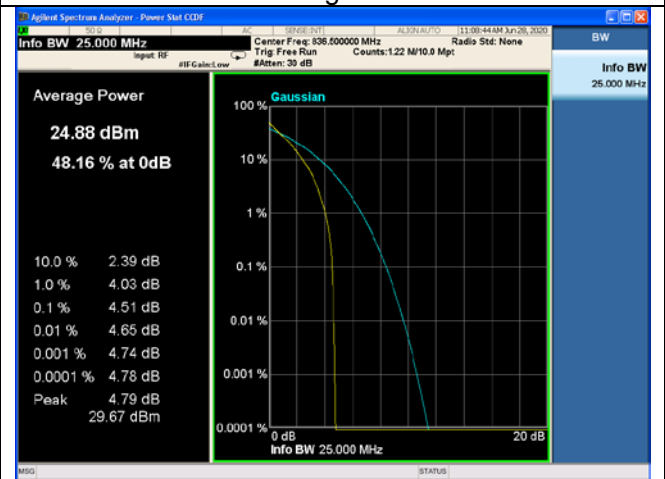


Fig.4

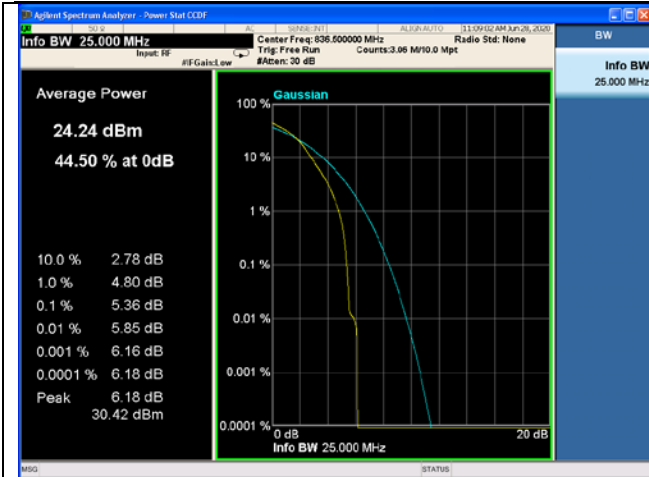


Fig.5

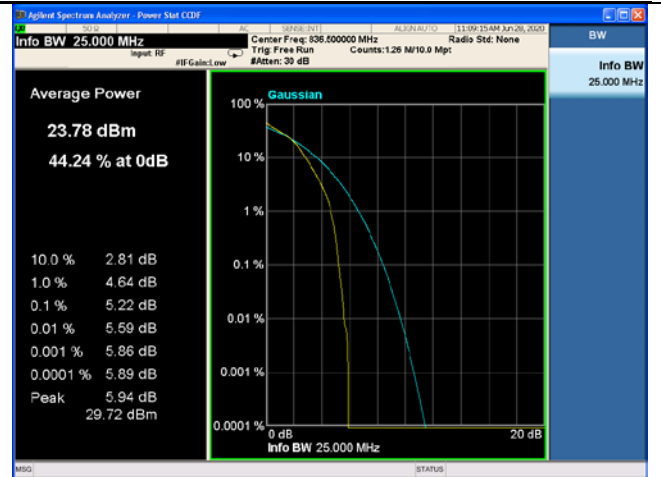


Fig.6

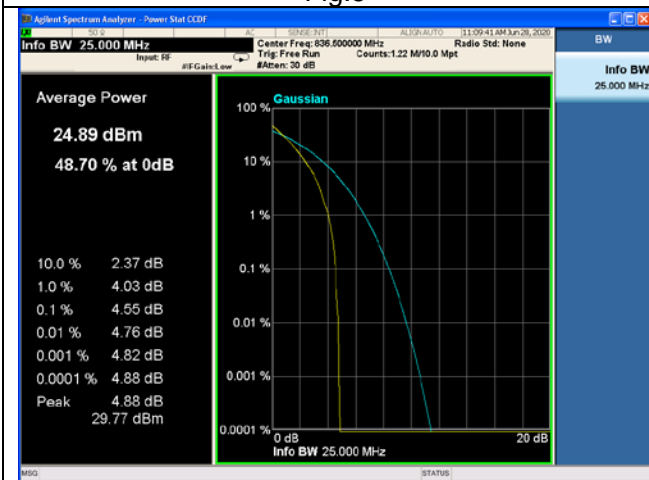


Fig.7

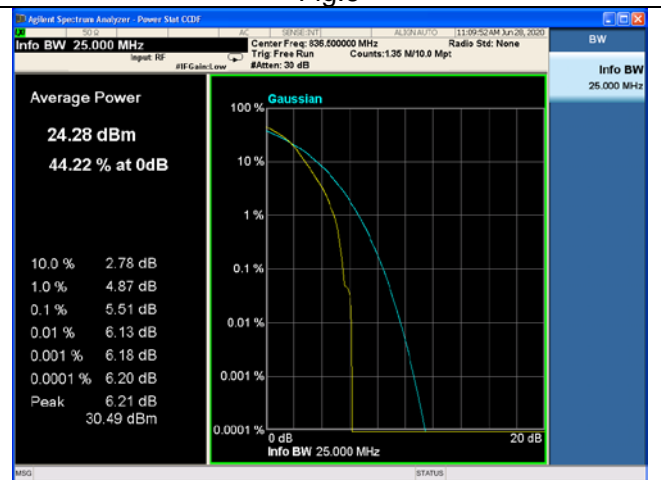


Fig.8

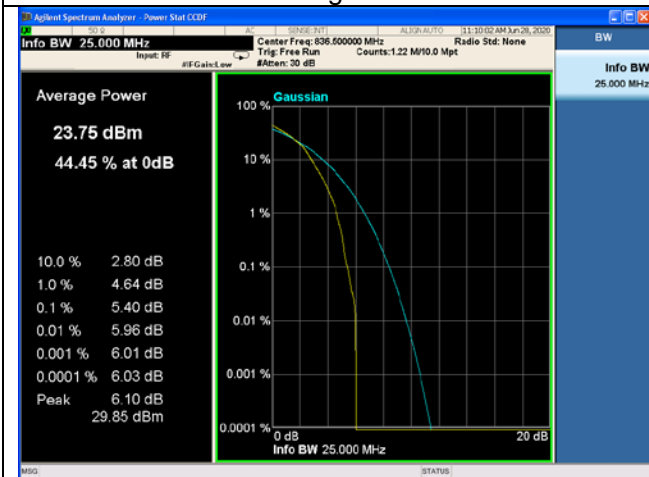


Fig.9

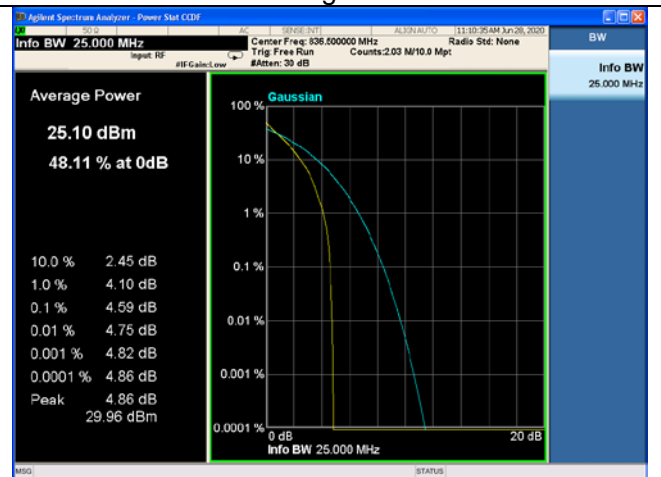


Fig.10



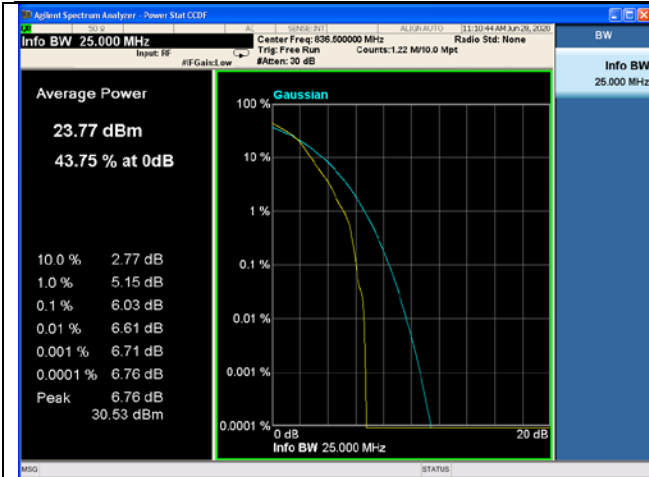


Fig.11

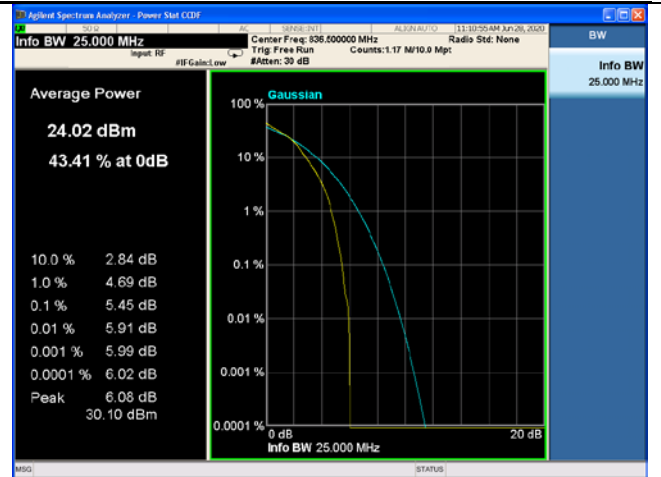


Fig.12

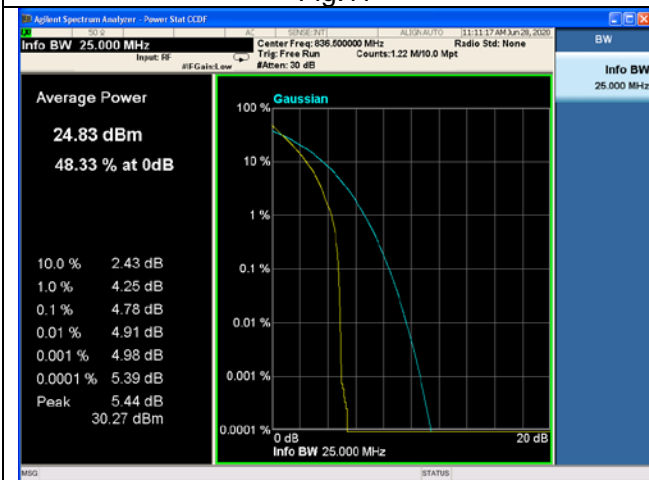


Fig.13

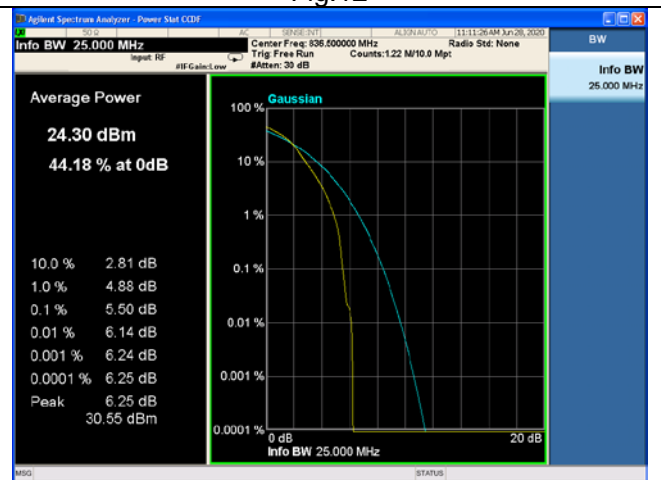


Fig.14

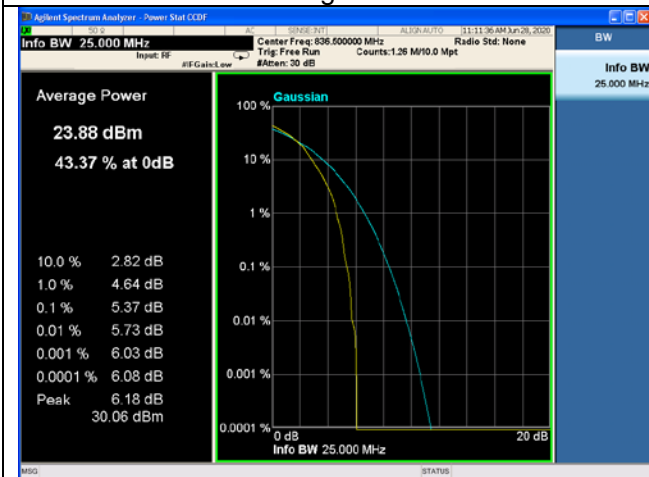


Fig.15

**4 Spurious Emissions at antenna terminal**

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
26	831.5	26865	15	1	0	Fig.1-2
	836.5	26915	15	1	0	Fig.3-4
	841.5	26965	15	1	0	Fig.5-6

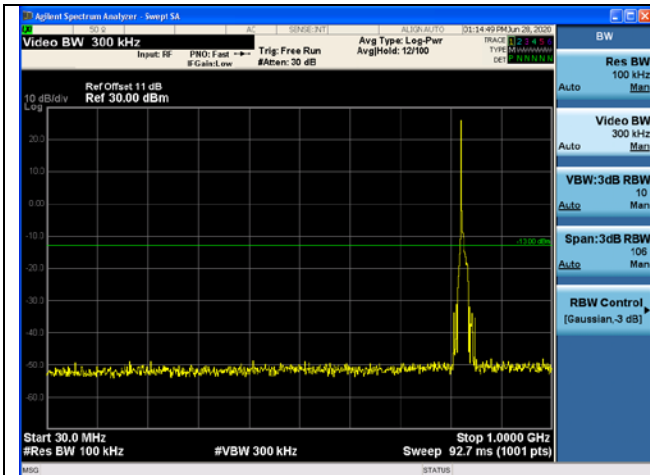


Fig.1

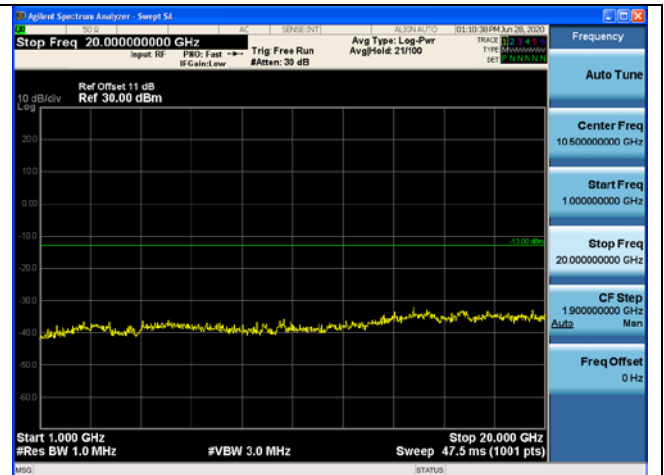


Fig.2

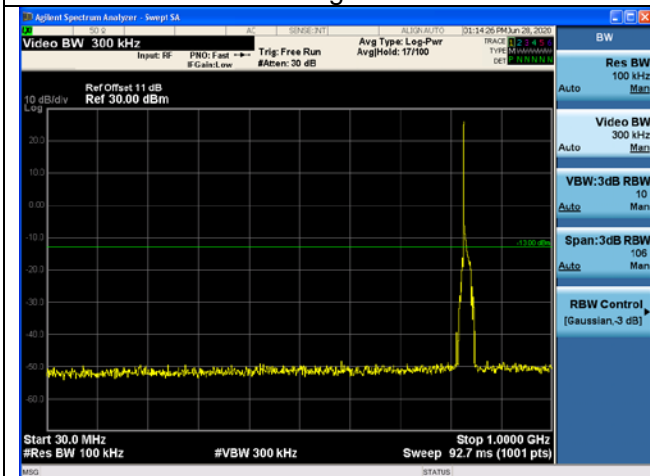


Fig.3

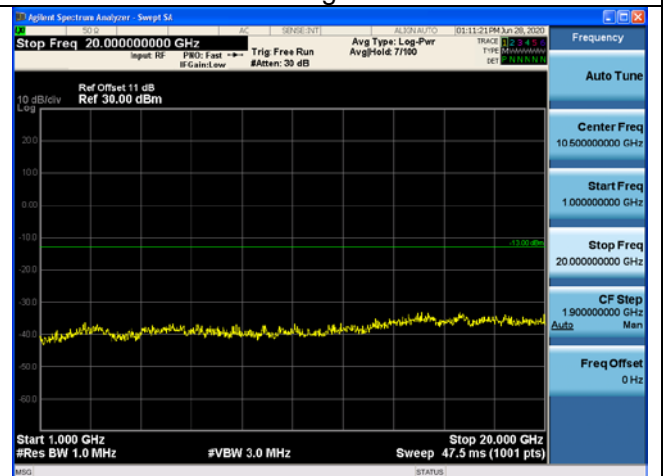


Fig.4

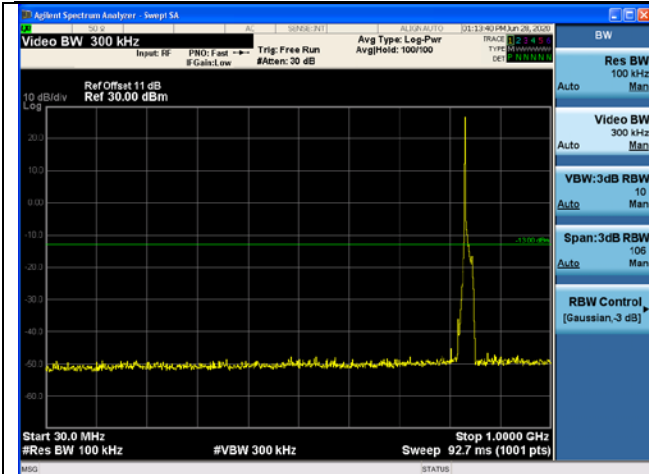


Fig.5

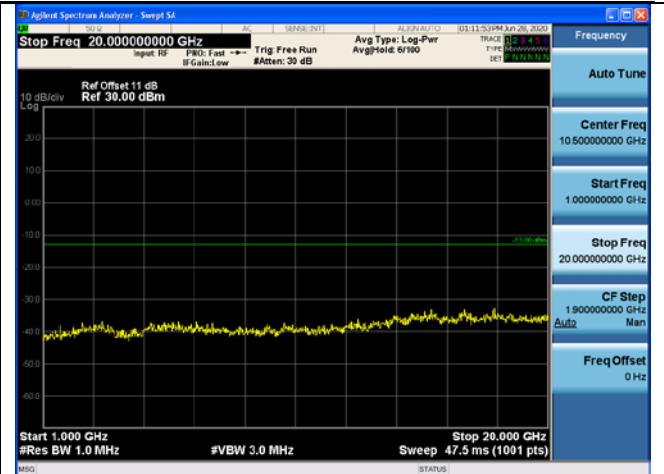


Fig.6

### 5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
26	824.7	26797	1.4	1	0	Fig.1
				6	0	Fig.2
	848.3	27033		1	5	Fig.3
				6	0	Fig.4
	825.5	26805	3	1	0	Fig.5
				15	0	Fig.6
	847.5	27025		1	14	Fig.7
				15	0	Fig.8
	826.5	26815	5	1	0	Fig.9
				25	0	Fig.10
	846.5	27015		1	24	Fig.11
				25	0	Fig.12
	829	26840	10	1	0	Fig.13
				50	0	Fig.14
	844	26990		1	49	Fig.15
				50	0	Fig.16
	831.5	26865	15	1	0	Fig.17
				75	0	Fig.18
	841.5	26965		1	74	Fig.19
				75	0	Fig.20

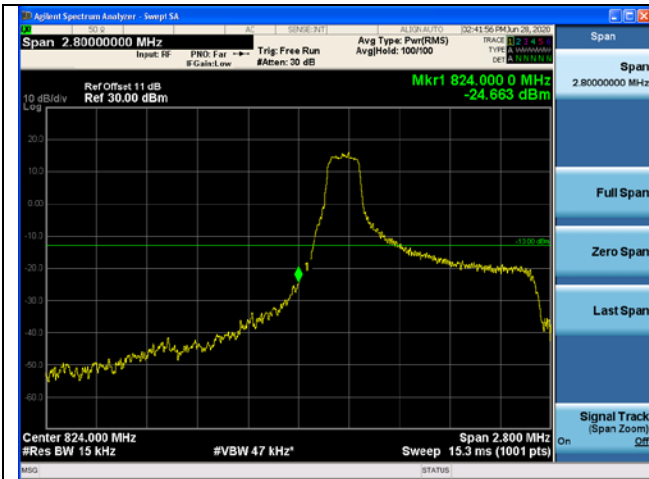


Fig.1

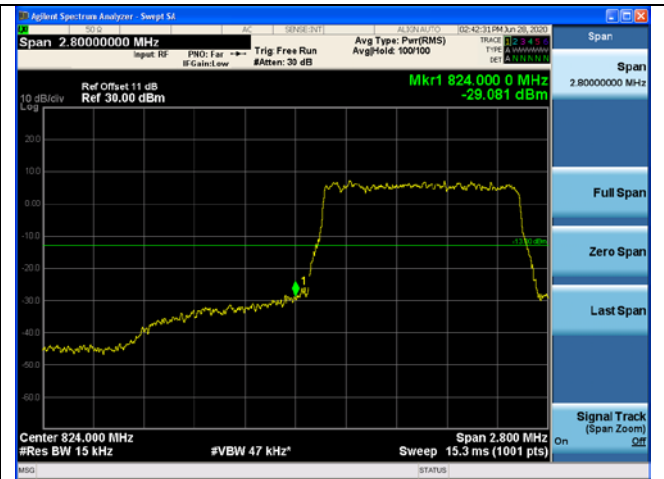


Fig.2

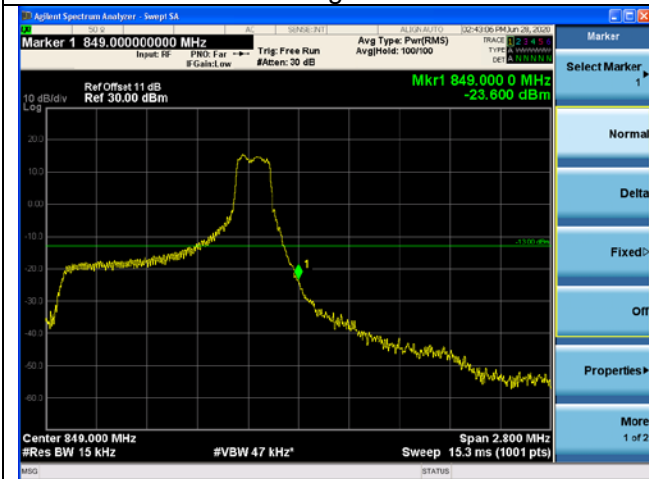


Fig.3



Fig.4

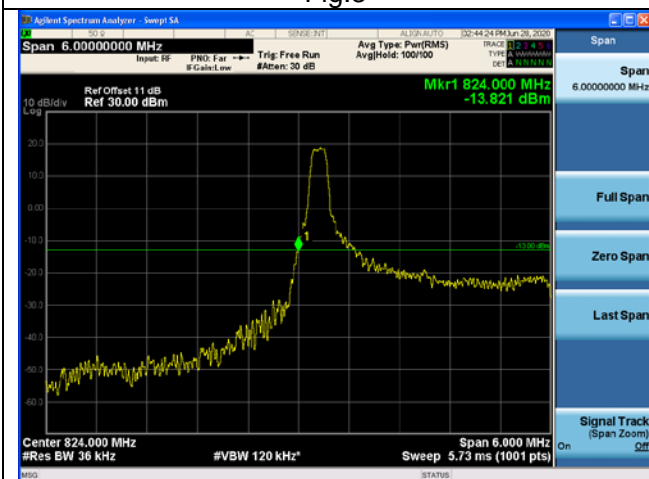


Fig.5

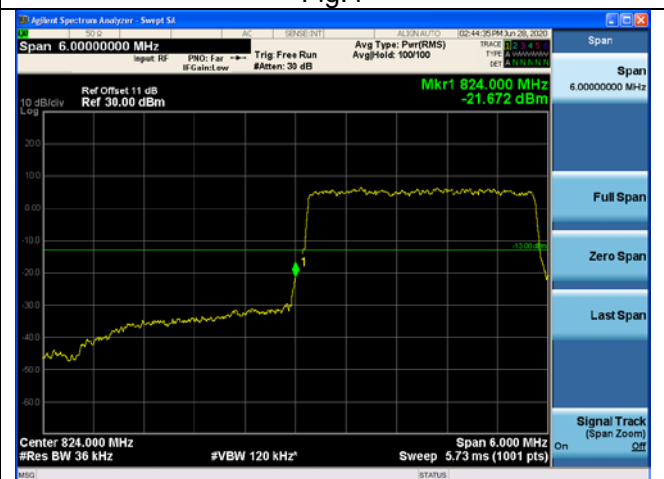


Fig.6

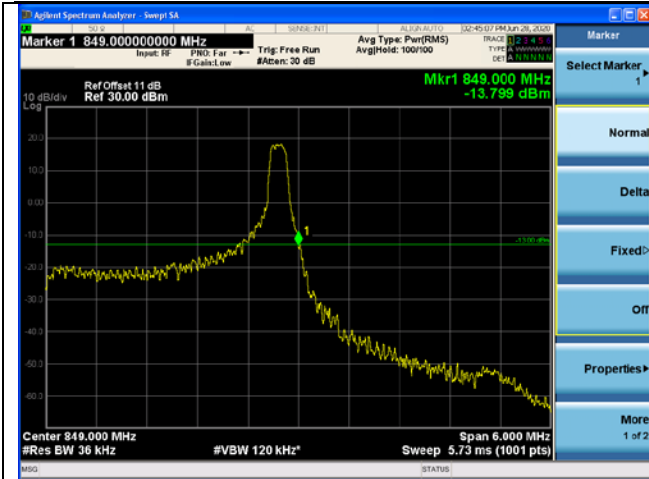


Fig.7



Fig.8

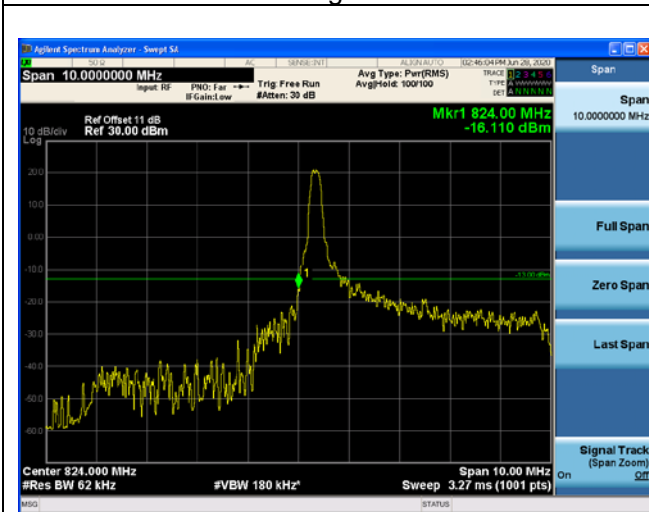


Fig.9

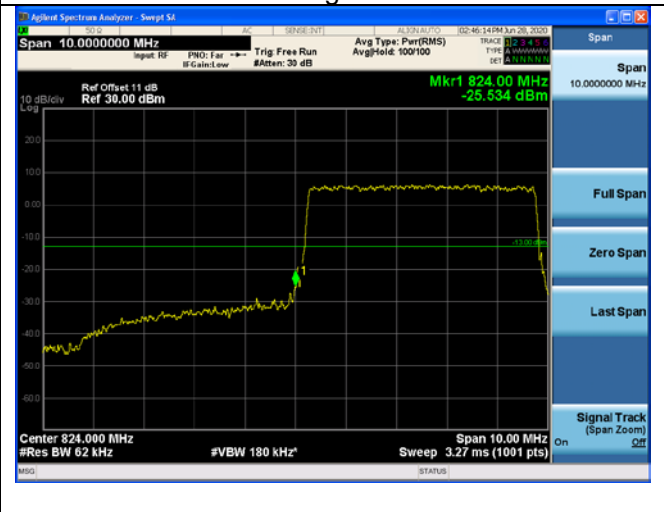


Fig.10

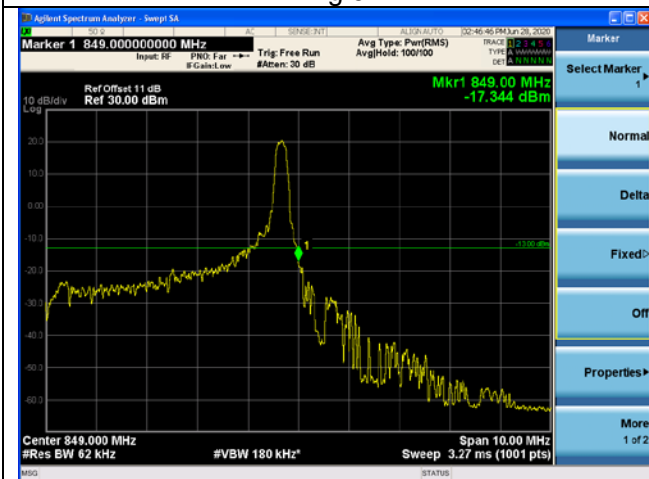


Fig.11



Fig.12

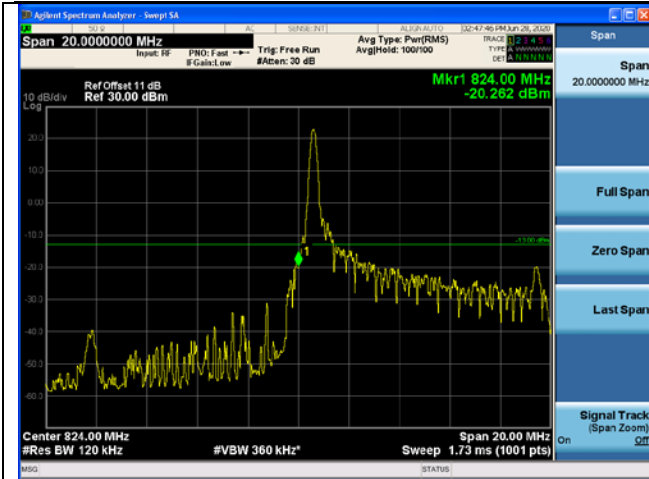


Fig.13

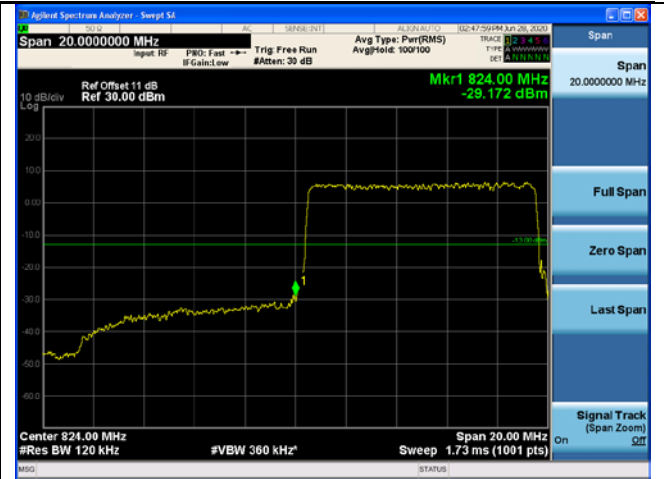


Fig.14

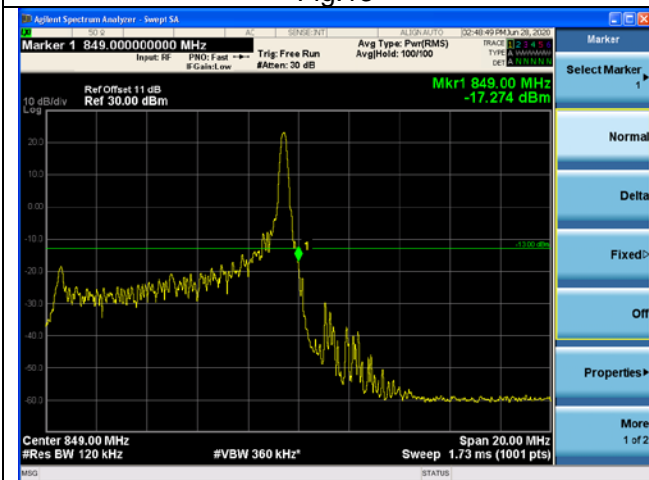


Fig.15



Fig.16

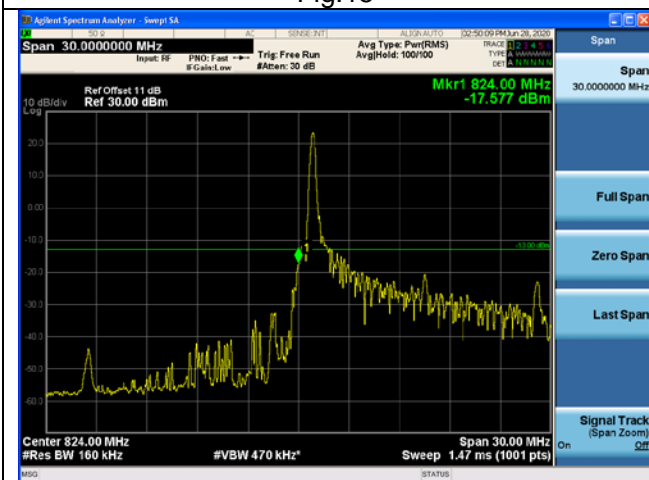


Fig.17

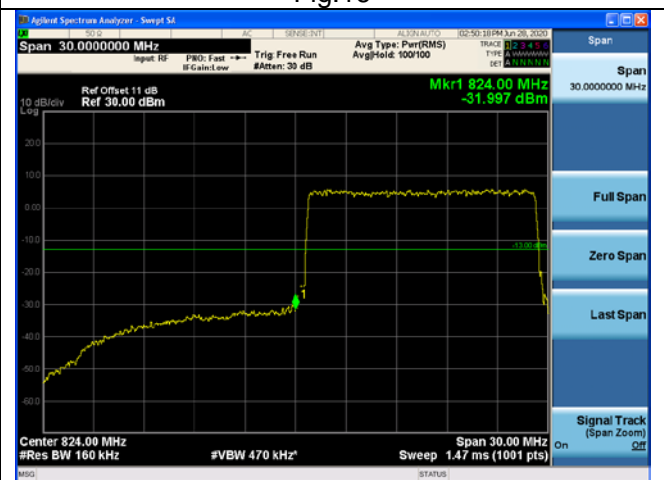


Fig.18

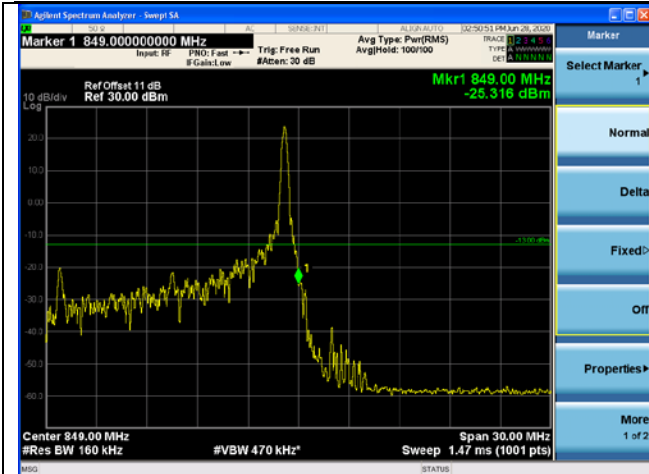


Fig.19

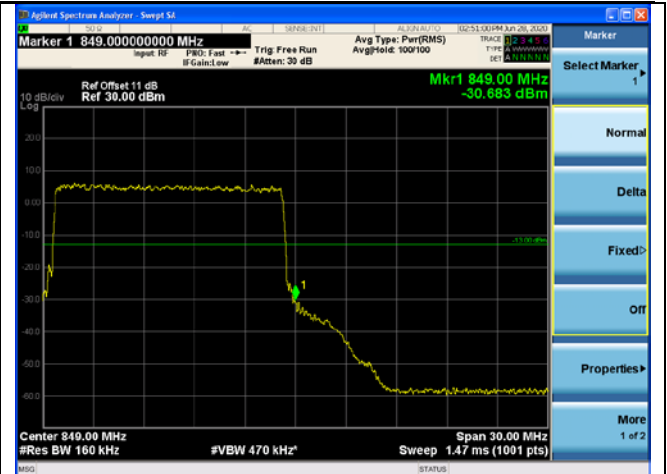


Fig.20

## 6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band26 Low Channel				
		1.4M	3M	5M	10M	15M
-10	NV	0.023	0.010	-0.039	-0.022	0.036
0	NV	0.017	0.005	-0.022	-0.010	-0.017
+10	NV	0.044	0.017	-0.042	-0.022	-0.024
+20	NV	0.000	0.000	0.000	0.000	0.000
+30	NV	0.025	-0.038	0.026	0.043	0.036
+40	NV	0.014	-0.001	-0.005	-0.041	-0.040
+50	NV	-0.010	0.012	0.046	0.029	-0.030
+55	NV	0.026	0.016	-0.040	-0.021	0.029
+20	LV	0.031	-0.031	-0.049	0.000	-0.028
+20	HV	-0.040	-0.032	0.005	0.037	0.000

Temperature(°C)	Voltage	Test Result (ppm) Band26 High Channel				
		1.4M	3M	5M	10M	15M
-10	NV	0.010	0.005	-0.014	0.000	-0.030
0	NV	-0.034	-0.020	-0.034	0.040	-0.045
+10	NV	-0.002	-0.018	-0.030	0.001	0.032
+20	NV	0.000	0.000	0.000	0.000	0.000
+30	NV	-0.042	-0.038	0.033	0.030	-0.029
+40	NV	0.011	-0.019	-0.018	0.001	0.021
+50	NV	0.040	-0.010	0.028	0.016	0.018
+55	NV	-0.018	0.017	0.043	0.014	0.042
+20	LV	0.042	-0.043	-0.044	-0.032	-0.038
+20	HV	-0.008	-0.016	0.045	0.043	0.014