

Fig.5

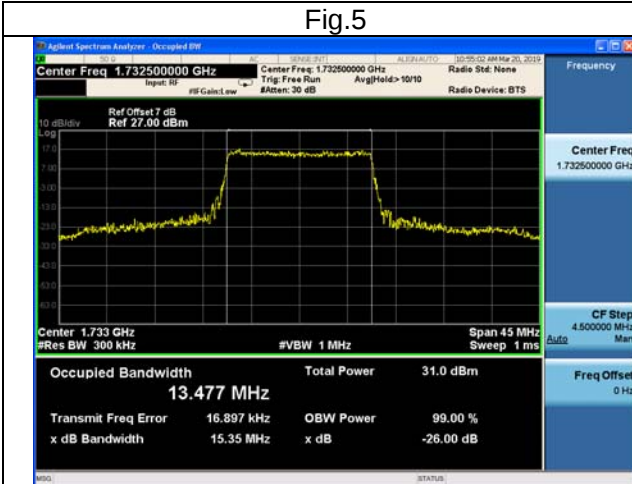


Fig.6

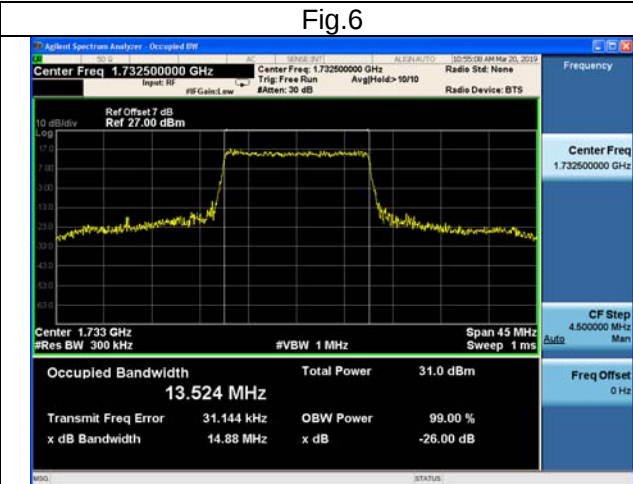


Fig.7

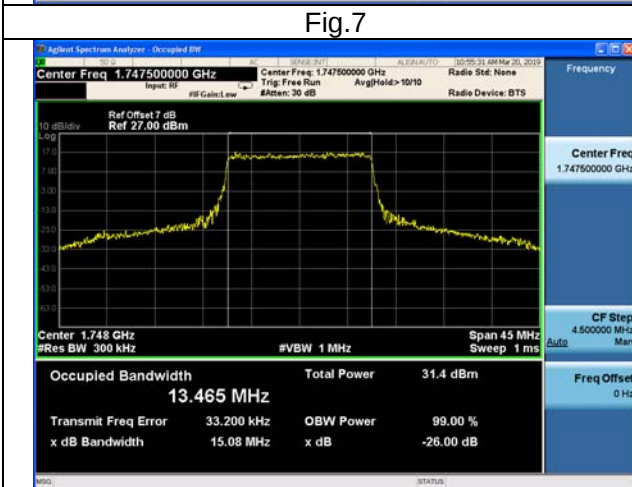


Fig.8

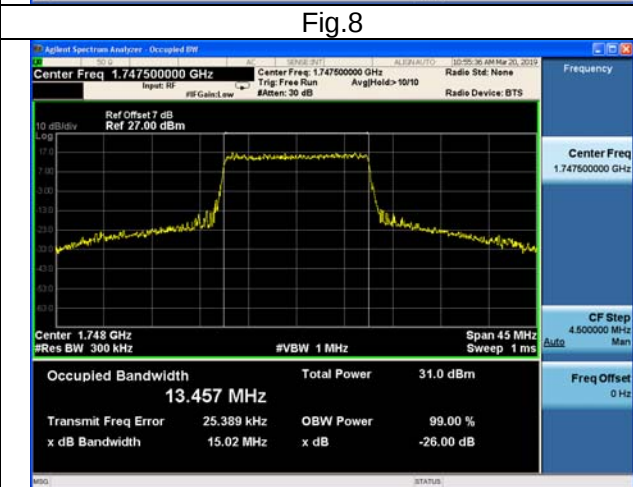
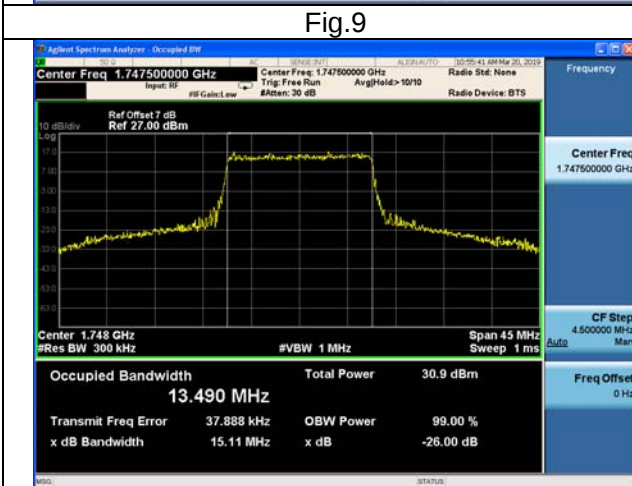


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1720	20050	20	100	0	17.922	Fig.1	17.925	Fig.2	17.921	Fig.3
4	1732.5	20175	20	100	0	17.987	Fig.4	17.977	Fig.5	17.979	Fig.6
4	1745	20300	20	100	0	17.975	Fig.7	17.959	Fig.8	17.937	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1720	20050	20	100	0	20.04	Fig.1	19.53	Fig.2	20.00	Fig.3
4	1732.5	20175	20	100	0	19.85	Fig.4	20.12	Fig.5	19.67	Fig.6
4	1745	20300	20	100	0	19.77	Fig.7	19.53	Fig.8	19.69	Fig.9

Fig.1

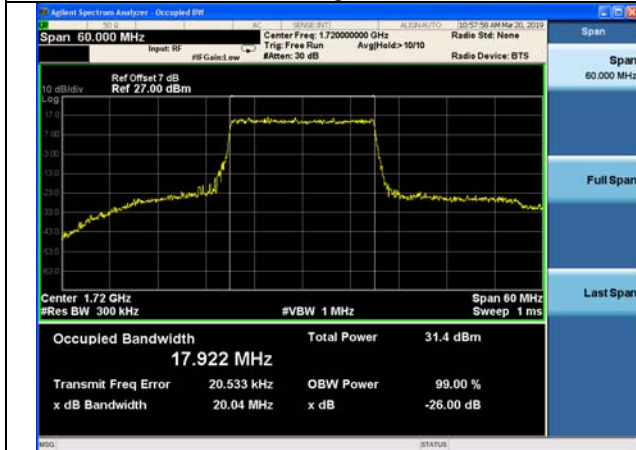


Fig.2

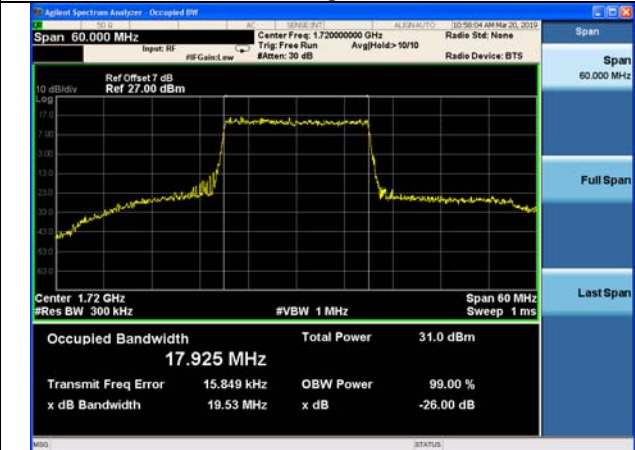


Fig.3

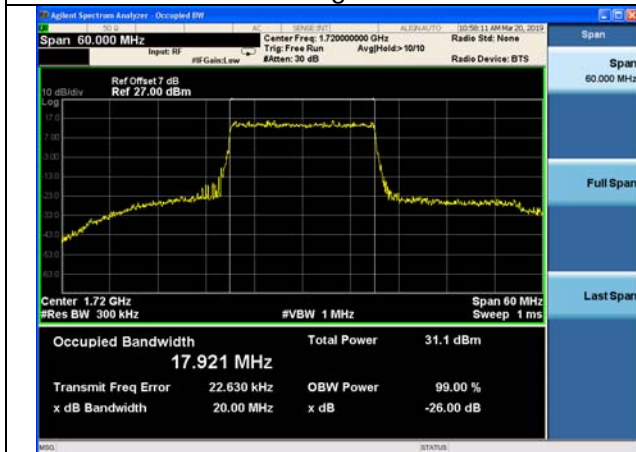


Fig.4

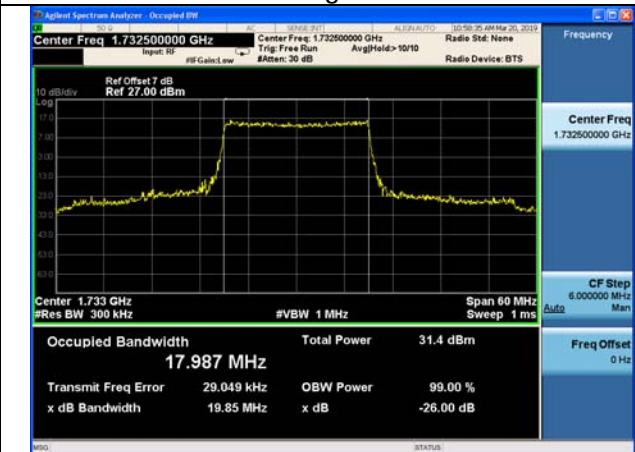


Fig.5

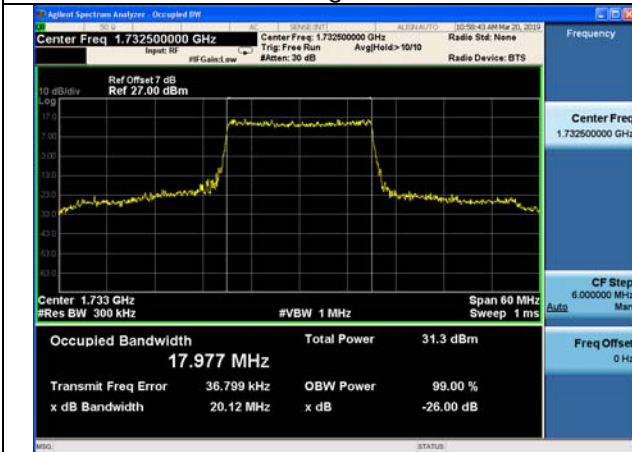


Fig.6

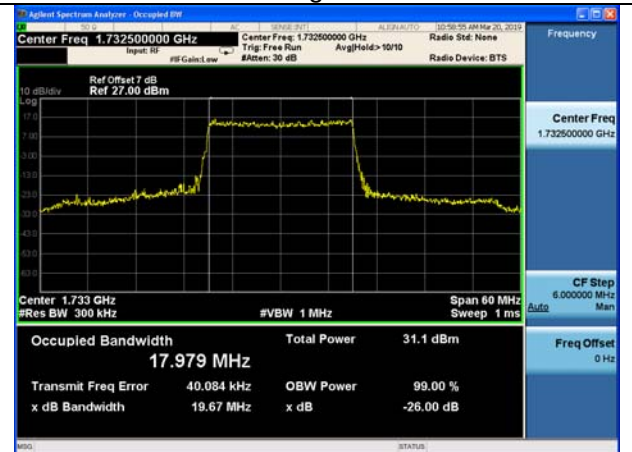


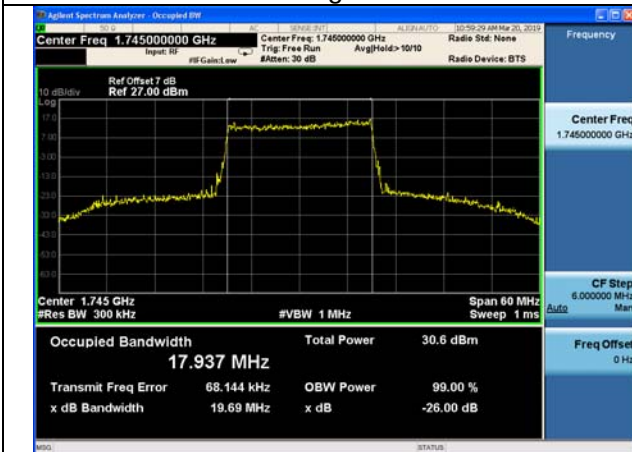
Fig.7



Fig.8

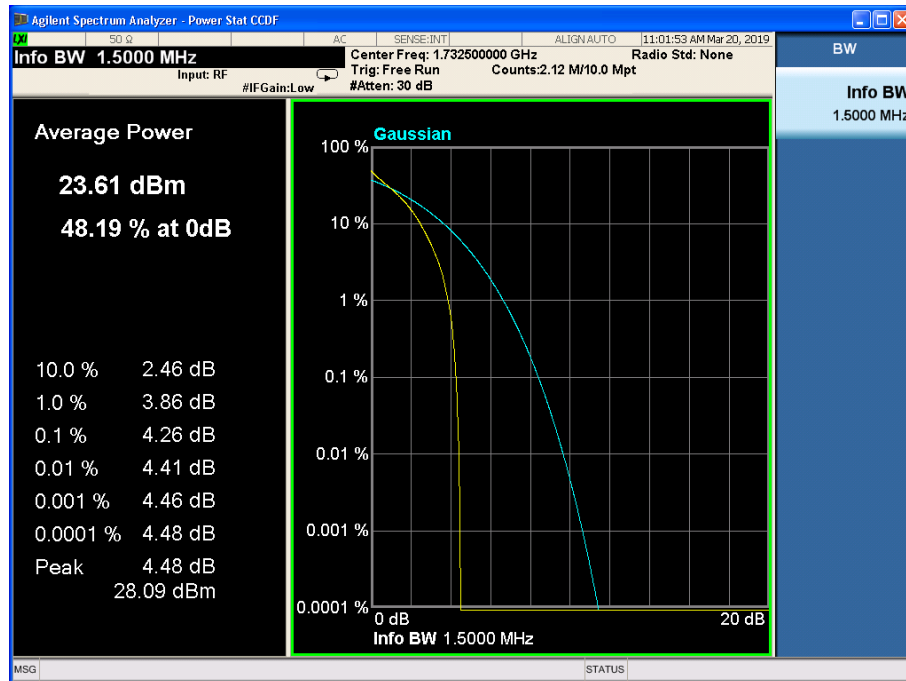


Fig.9

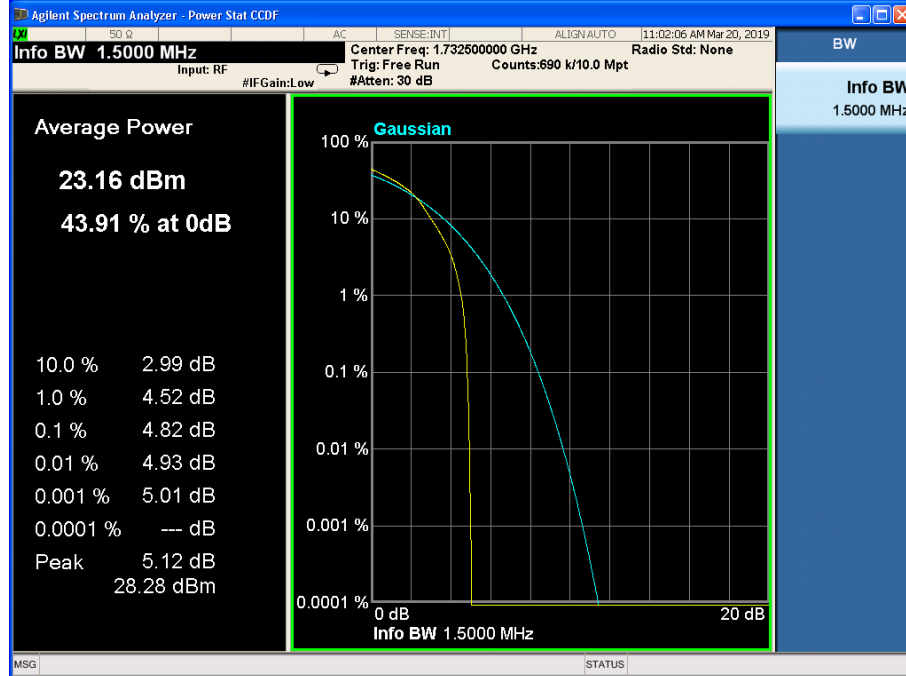


3 Peak-Average Ratio

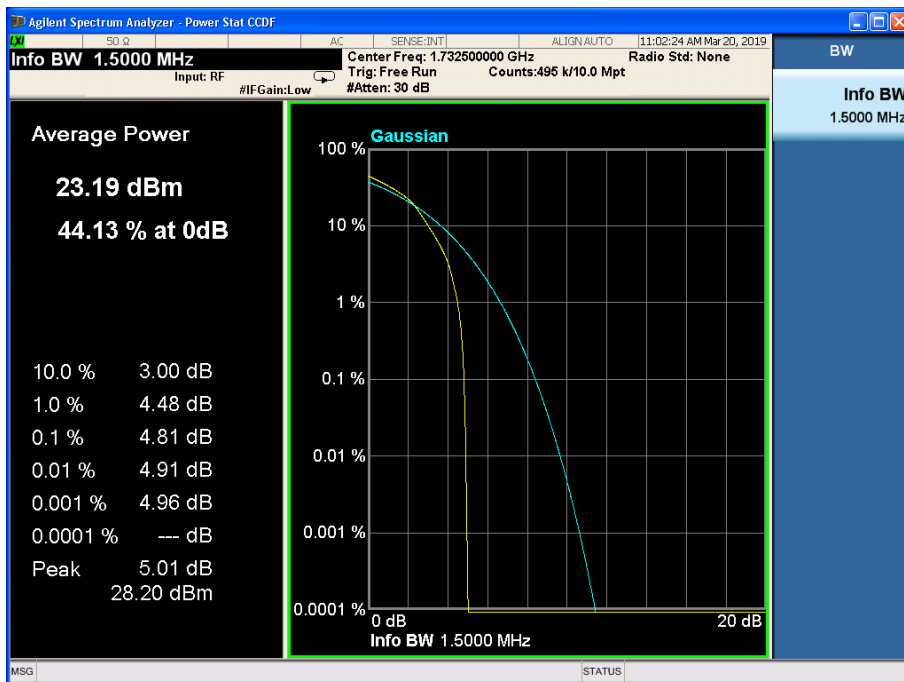
Test result:



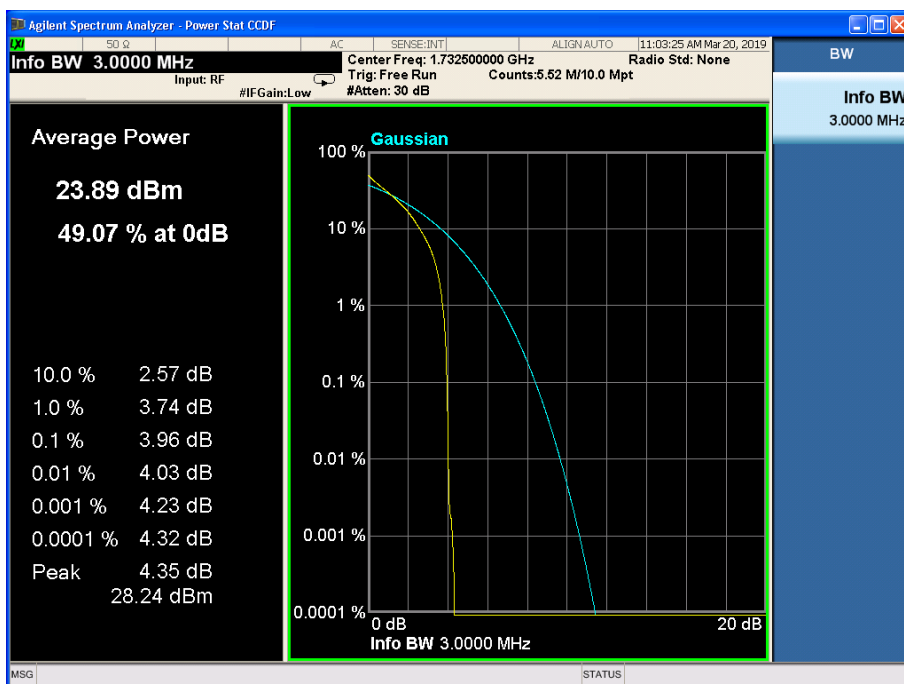
Peak-Average Ratio Plot(1.4MHz BW,QPSK,Band 4-mid Channel)



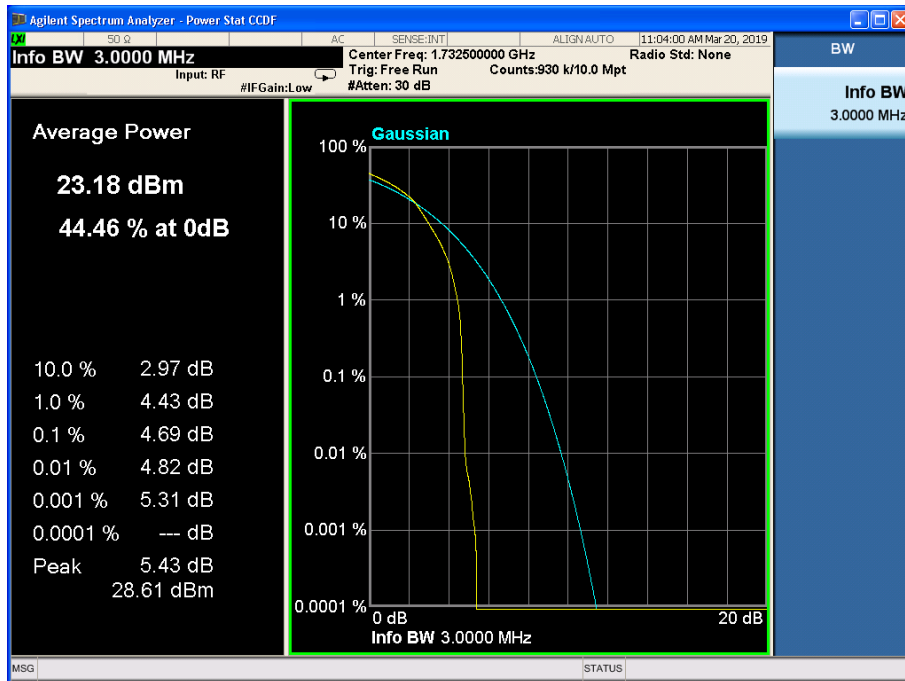
Peak-Average Ratio Plot(1.4MHz BW,16QAM,Band 4-mid Channel)



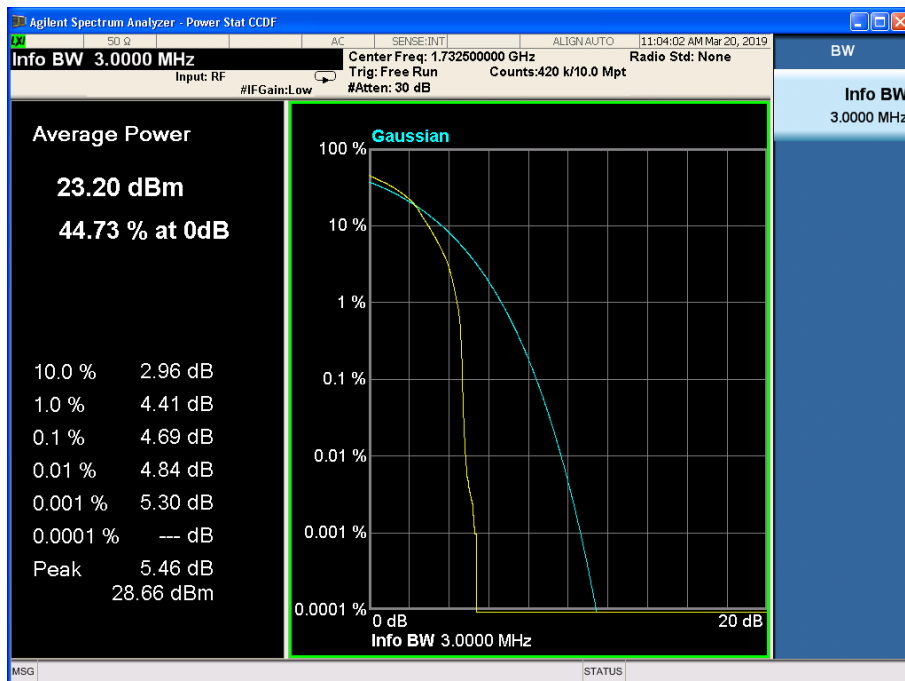
Peak-Average Ratio Plot(1.4MHz BW,64QAM,Band 4-mid Channel)



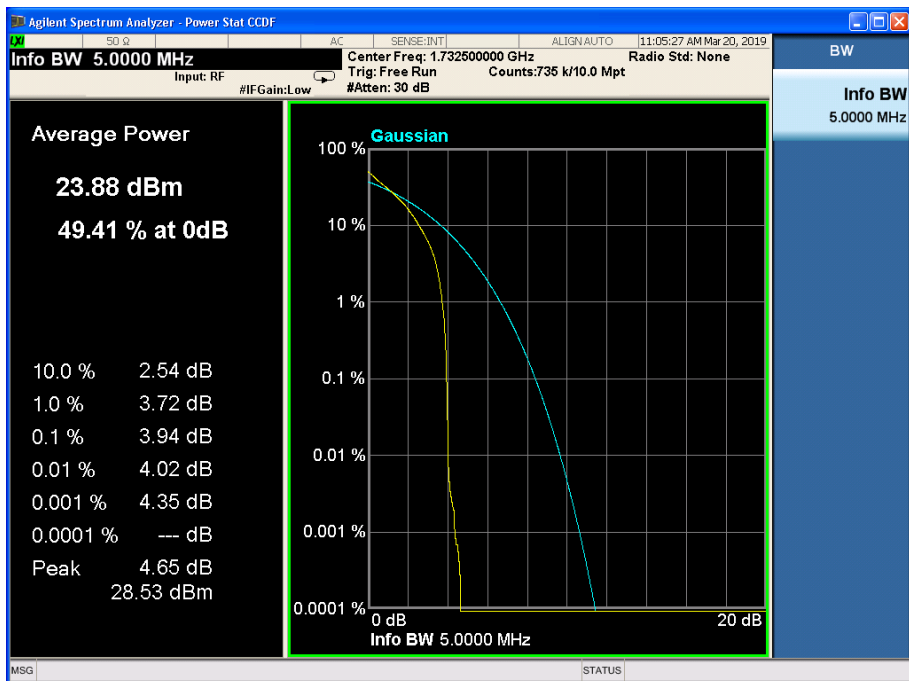
Peak-Average Ratio Plot(3MHz BW,QPSK,Band 4-mid Channel)



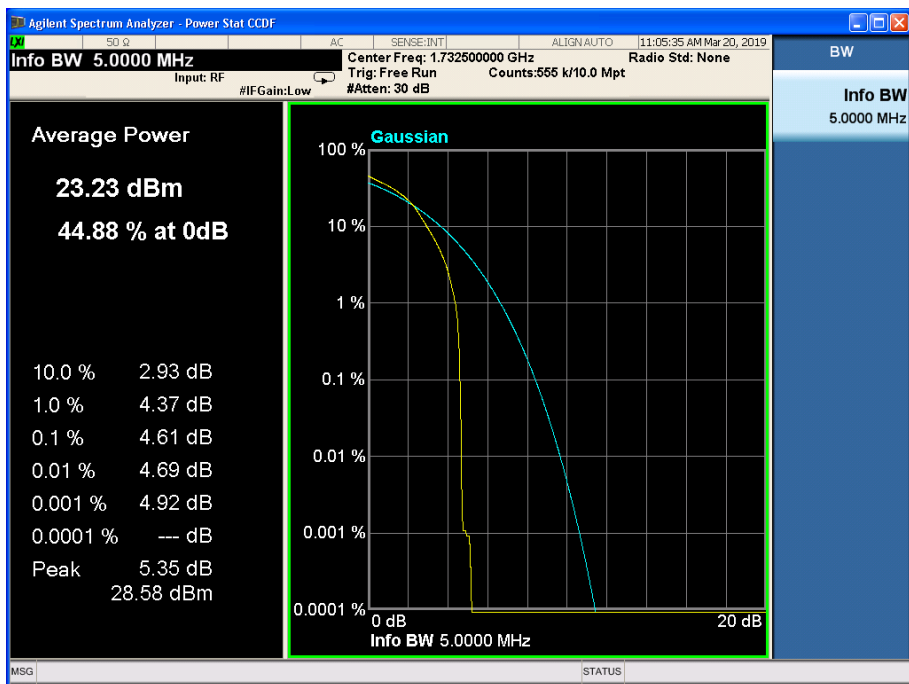
Peak-Average Ratio Plot(3MHz BW,16QAM,Band 4-mid Channel)



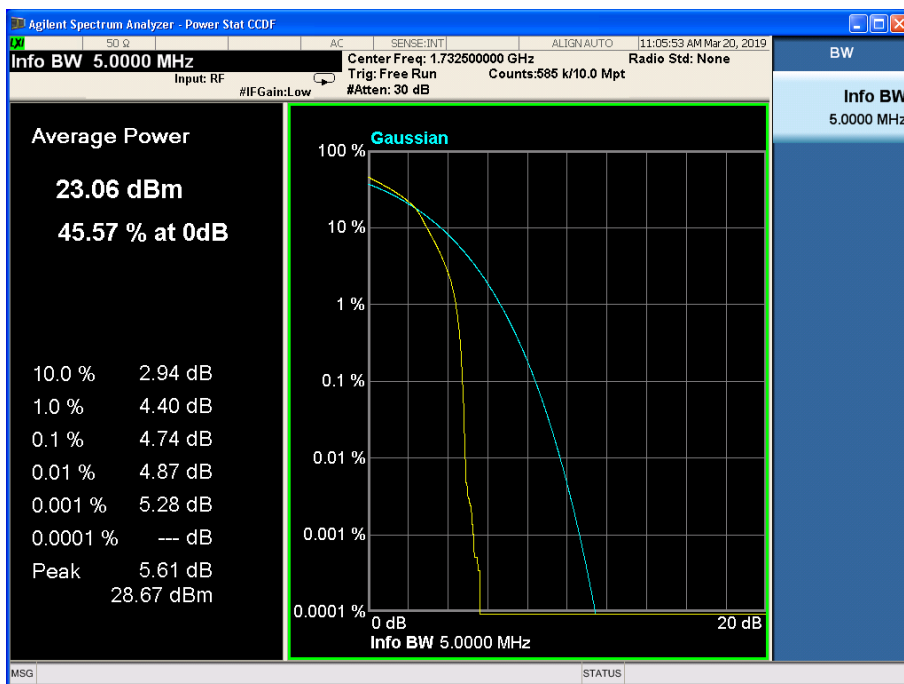
Peak-Average Ratio Plot(3MHz BW,64QAM,Band 4-mid Channel)



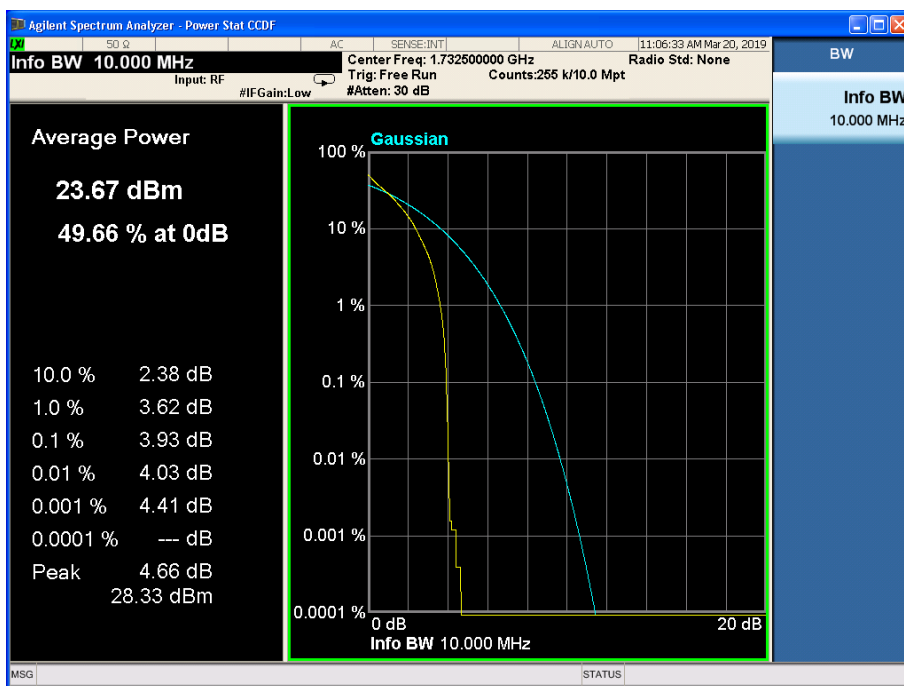
Peak-Average Ratio Plot(5MHz BW,QPSK,Band 4-mid Channel)



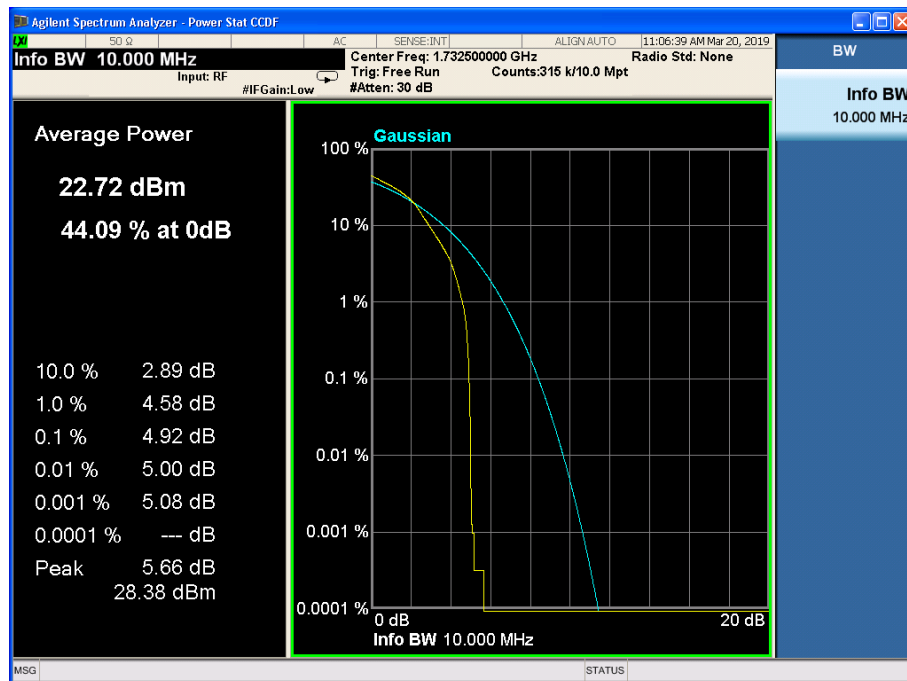
Peak-Average Ratio Plot(5MHz BW,16QAM,Band 4-mid Channel)



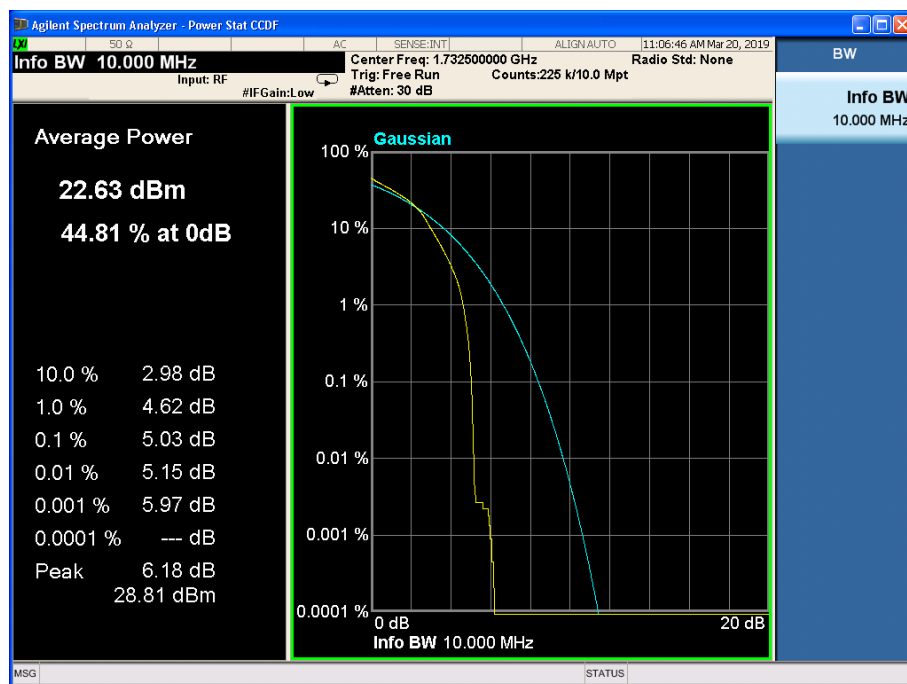
Peak-Average Ratio Plot(5MHz BW,64QAM,Band 4-mid Channel)



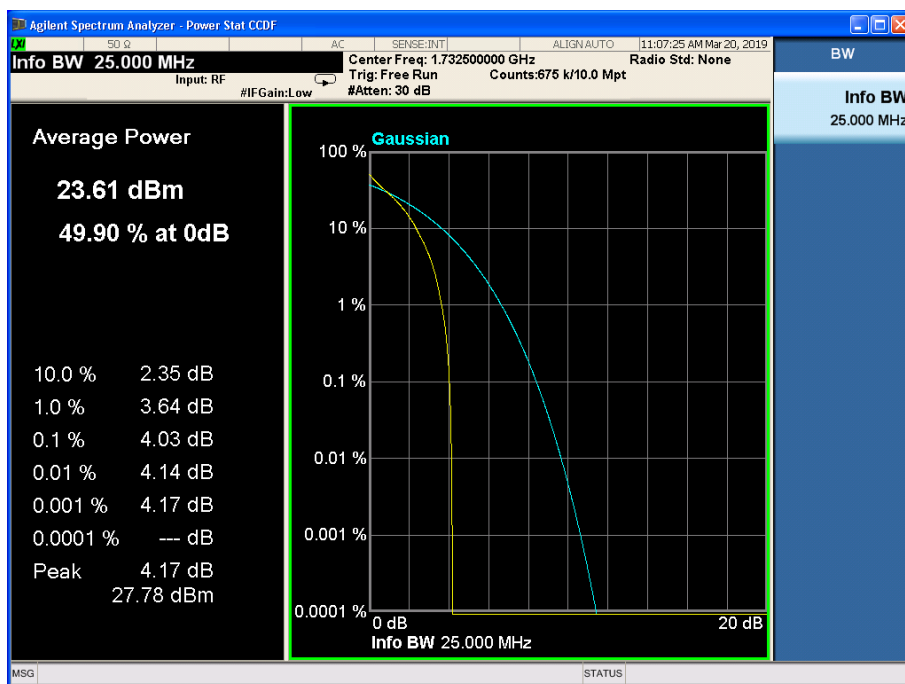
Peak-Average Ratio Plot(10MHz BW,QPSK,Band 4-mid Channel)



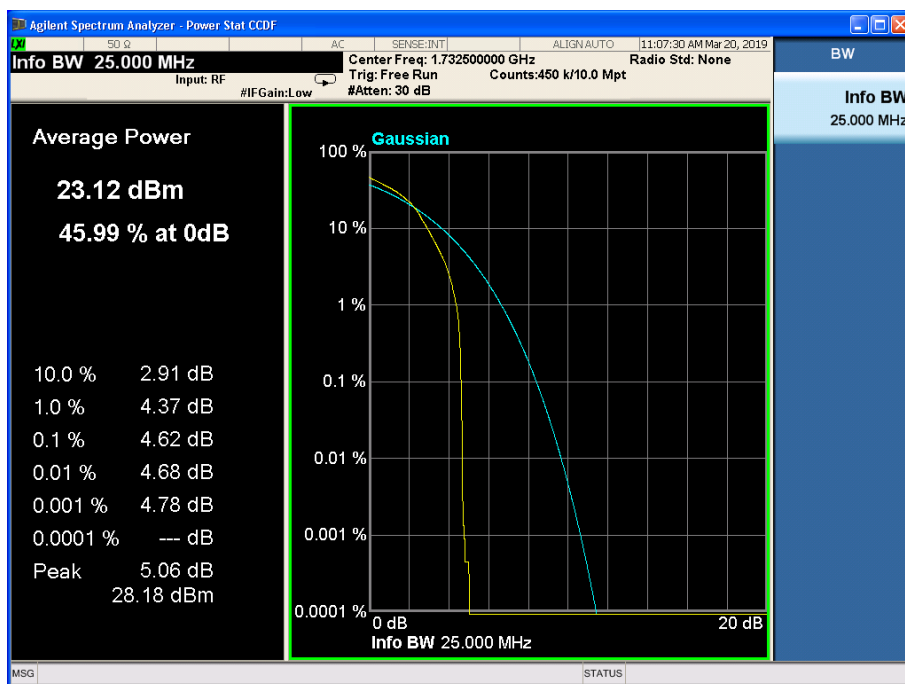
Peak-Average Ratio Plot(10MHz BW,16QAM,Band 4-mid Channel)



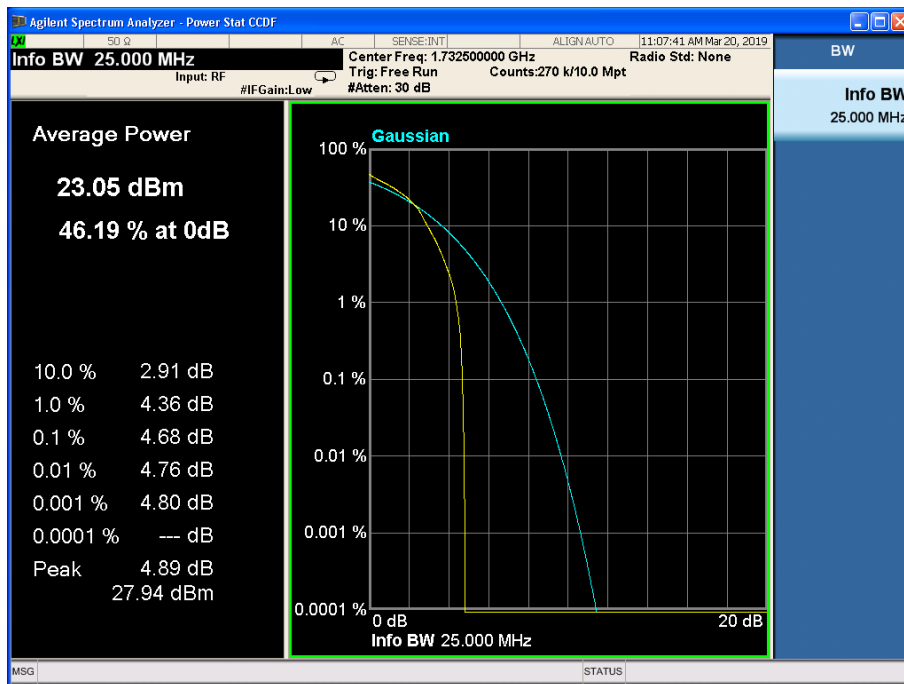
Peak-Average Ratio Plot(10MHz BW,64QAM,Band 4-mid Channel)



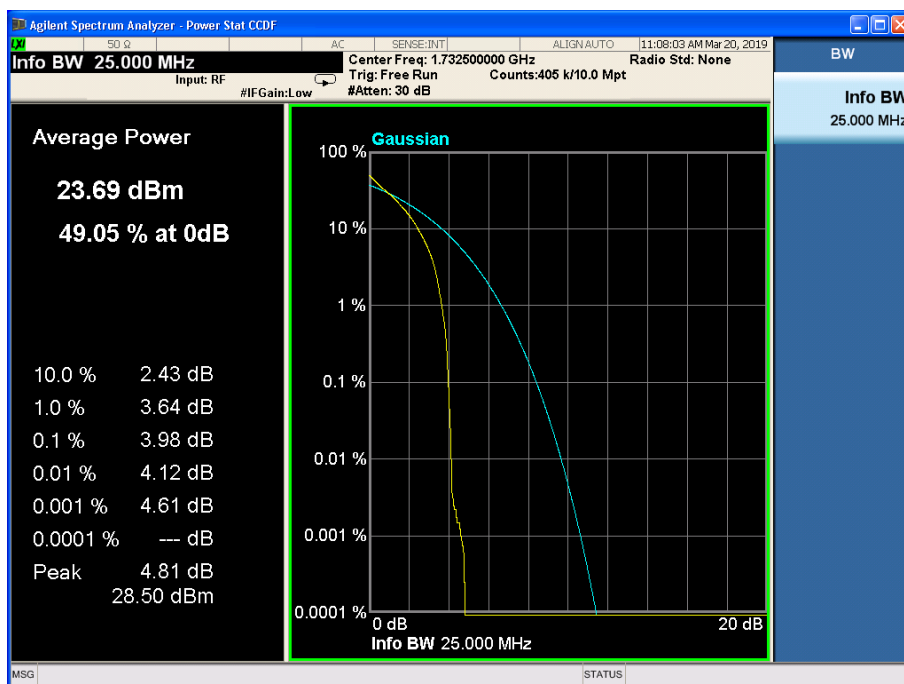
Peak-Average Ratio Plot(15MHz BW,QPSK,Band 4-mid Channel)



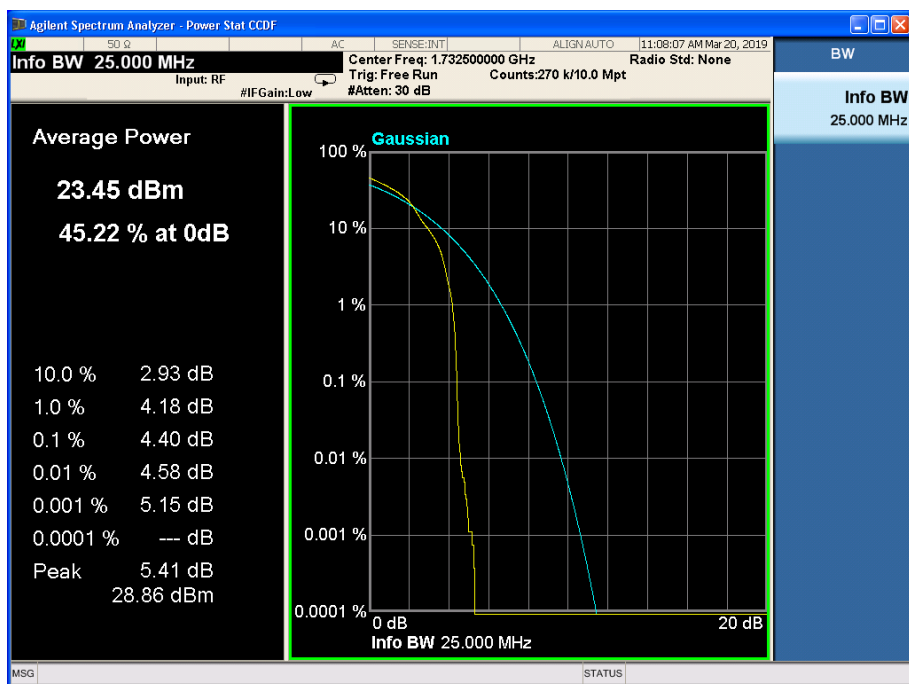
Peak-Average Ratio Plot(15MHz BW,16QAM,Band 4-mid Channel)



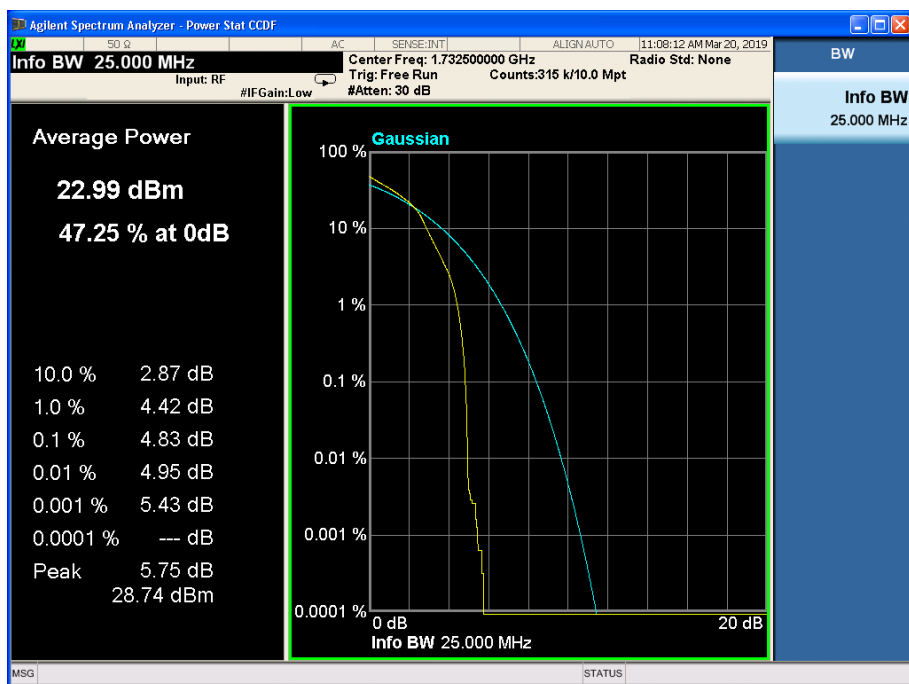
Peak-Average Ratio Plot(15MHz BW,64QAM,Band 4-mid Channel)



Peak-Average Ratio Plot(20MHz BW,QPSK,Band 4-mid Channel)



Peak-Average Ratio Plot(20MHz BW,16QAM,Band 4-mid Channel)



Peak-Average Ratio Plot(20MHz BW,64QAM,Band 4-mid Channel)

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
4	1720	20050	20	1	0	Fig.1

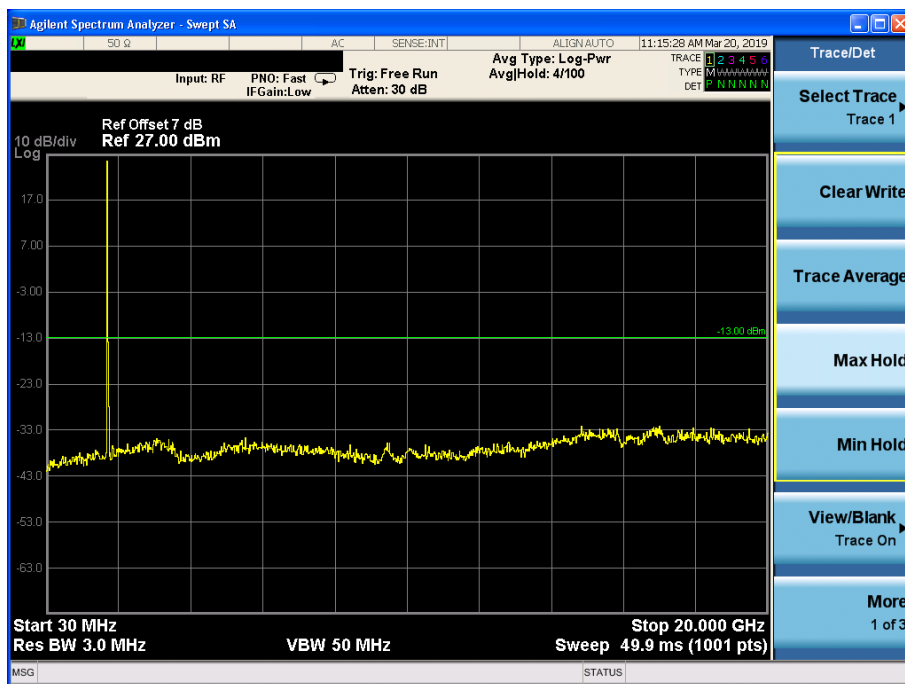


Fig.1

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
4	1732.5	20175	20	1	0	Fig.4

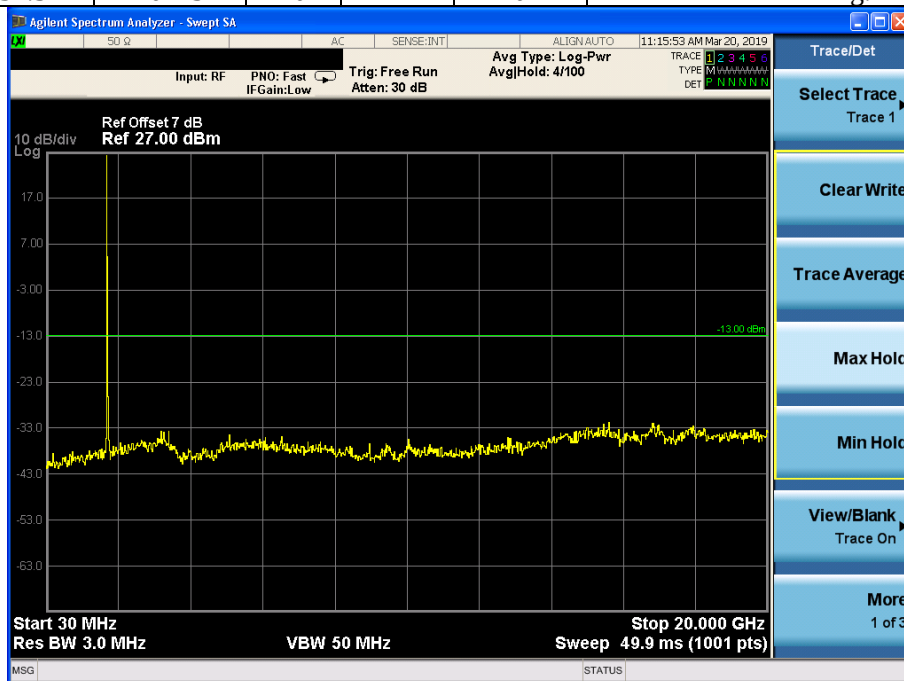


Fig.1

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
4	1745	20300	20	1	0	Fig.1

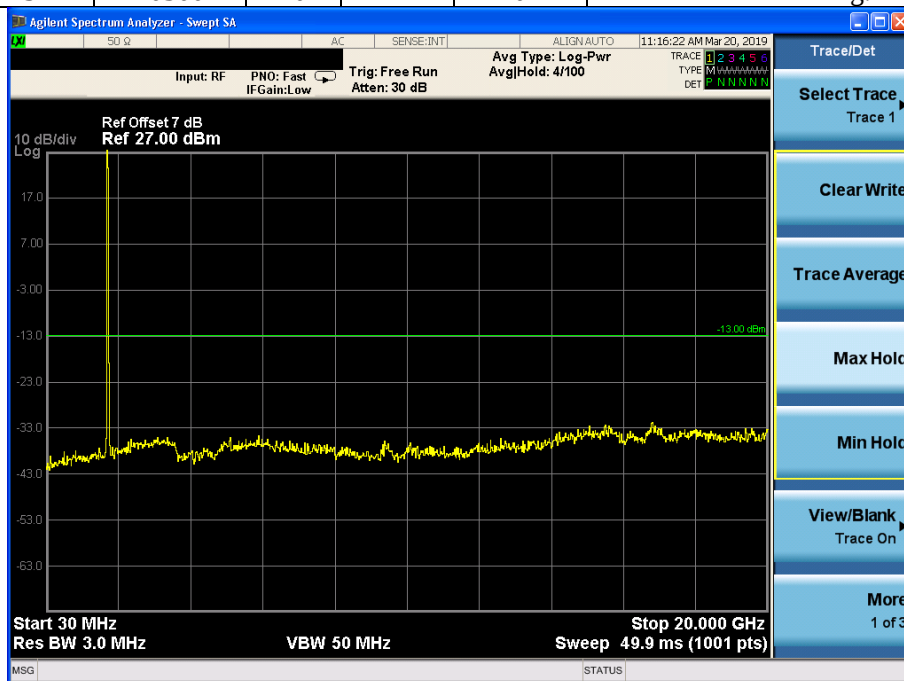


Fig.1

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1710.7	19957	1.4	1	0	Fig.1
				6	0	Fig.4

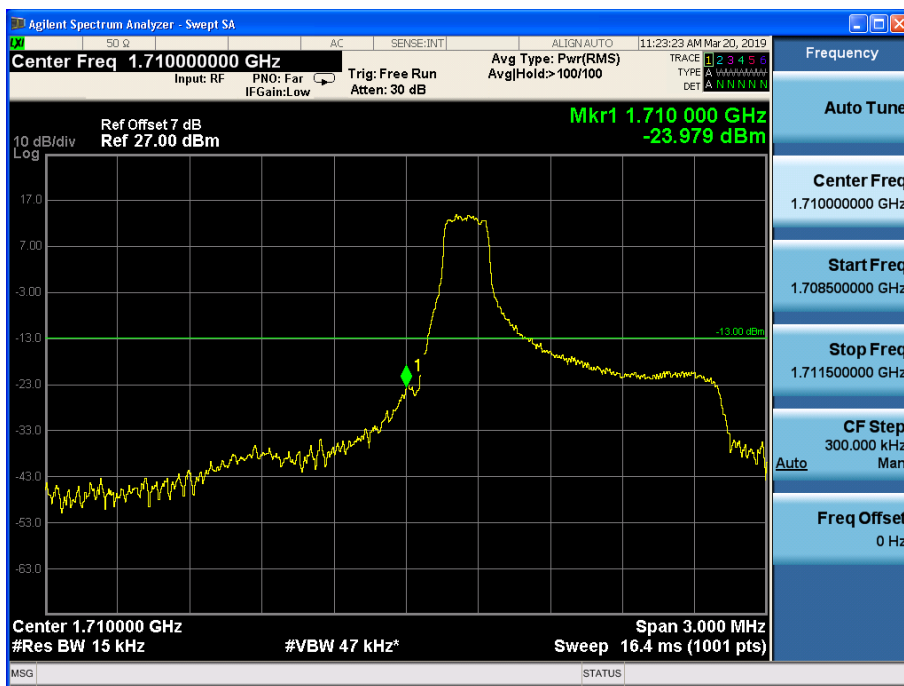


Fig.1

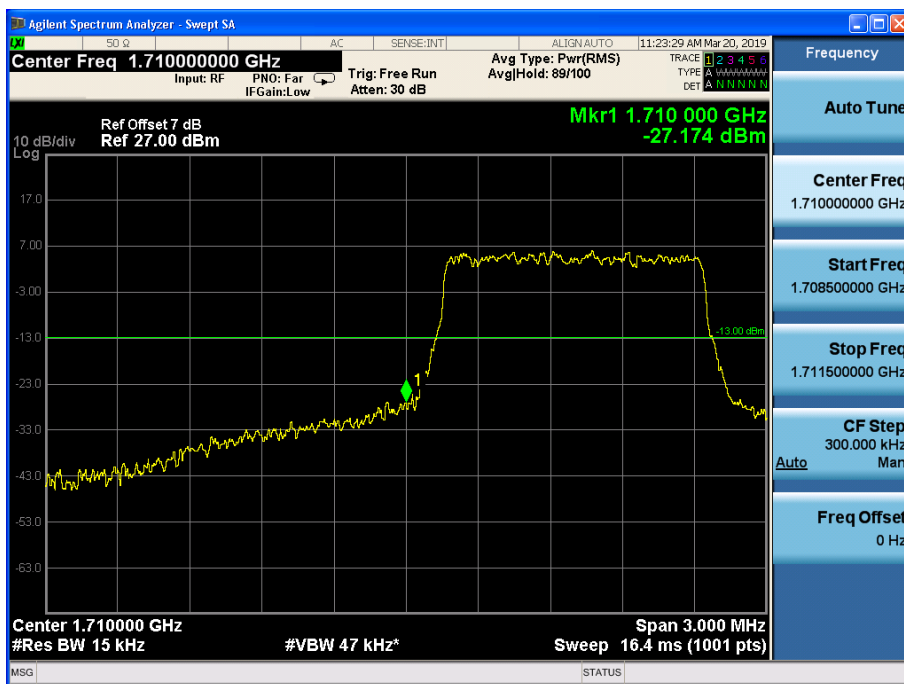


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1754.3	20393	1.4	1	0	Fig.1
				6	0	Fig.4

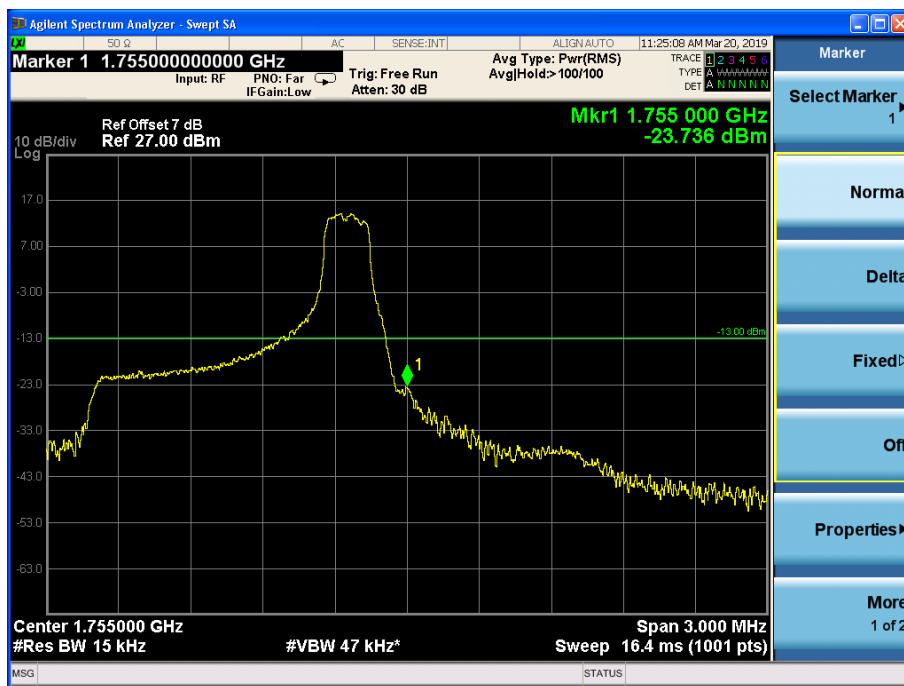


Fig.1

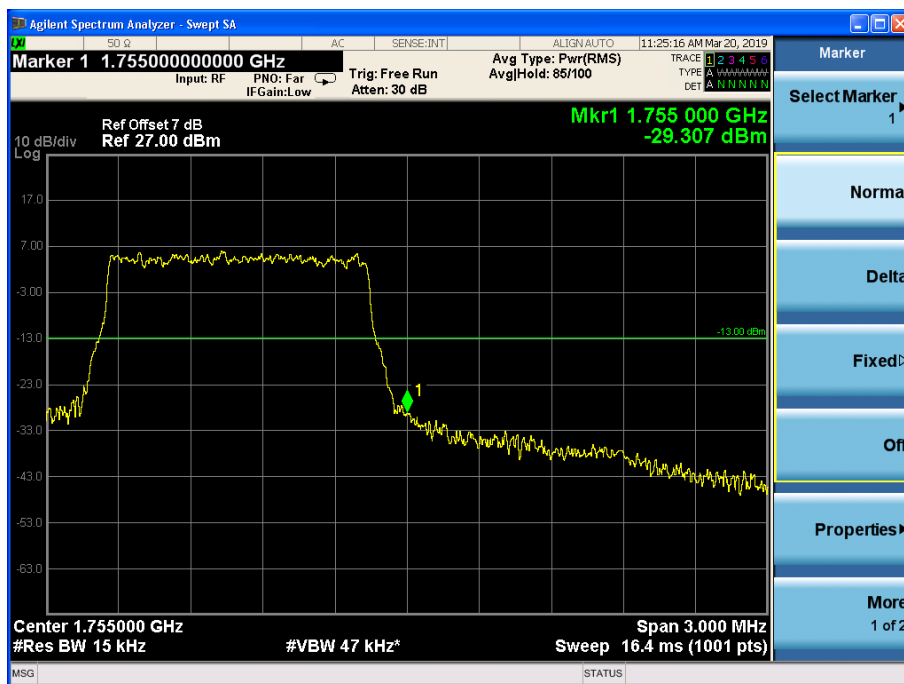


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1711.5	19965	3	1	0	Fig.1
				15	0	Fig.4

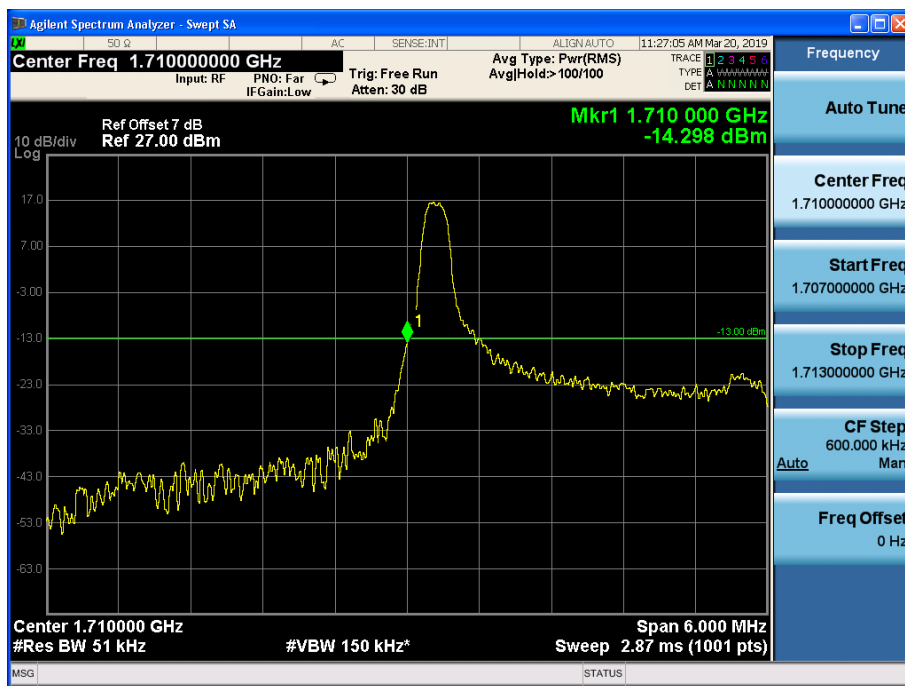


Fig.1

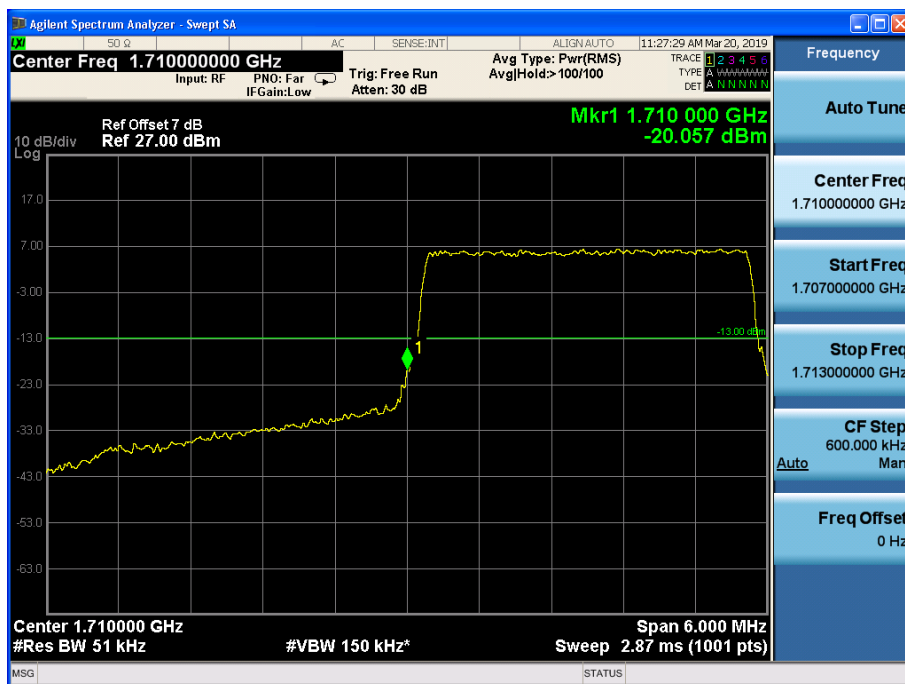


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1753.5	20385	3	1	0	Fig.1
				15	0	Fig.4

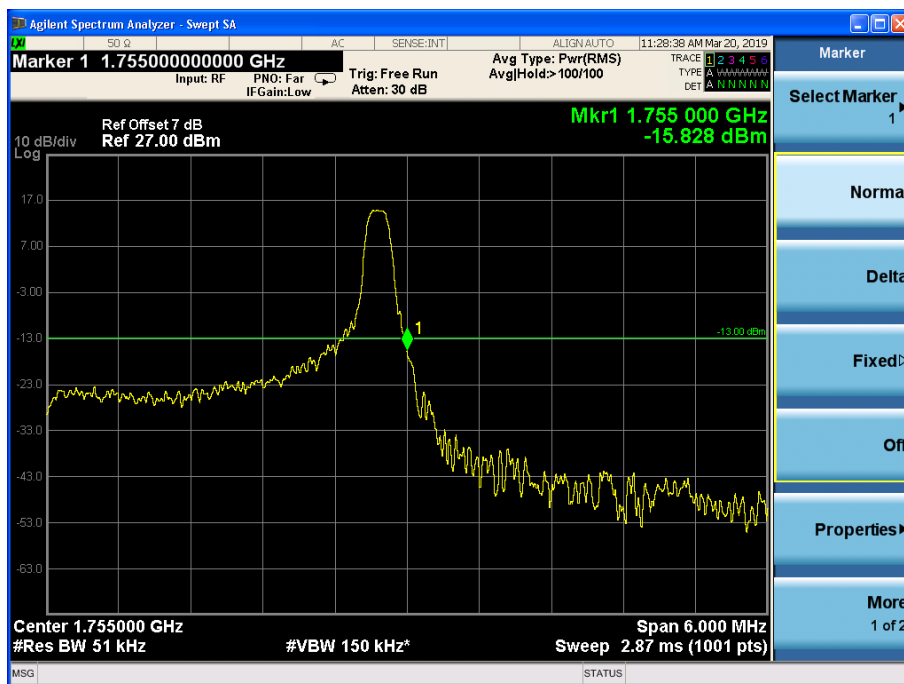


Fig.1

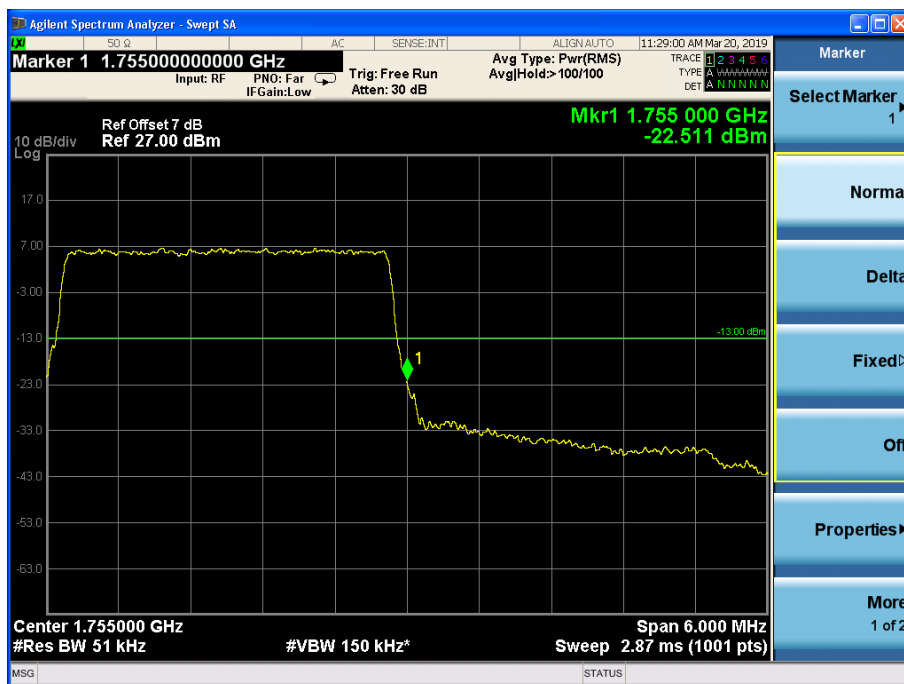


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1712.5	19975	5	1	0	Fig.1
				25	0	Fig.4

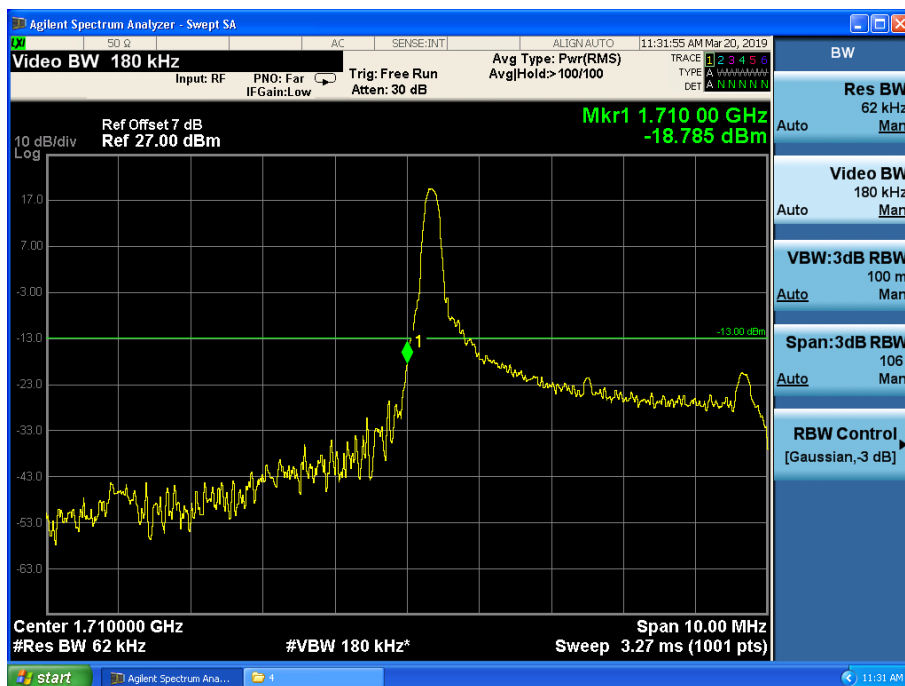


Fig.1

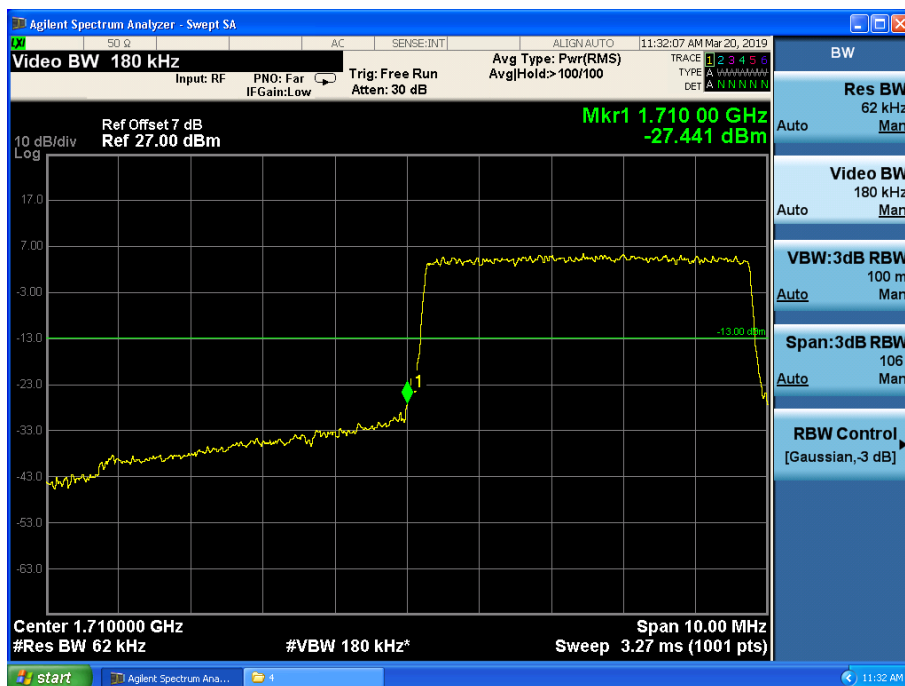


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1752.5	20375	5	1	0	Fig.1
				25	0	Fig.4

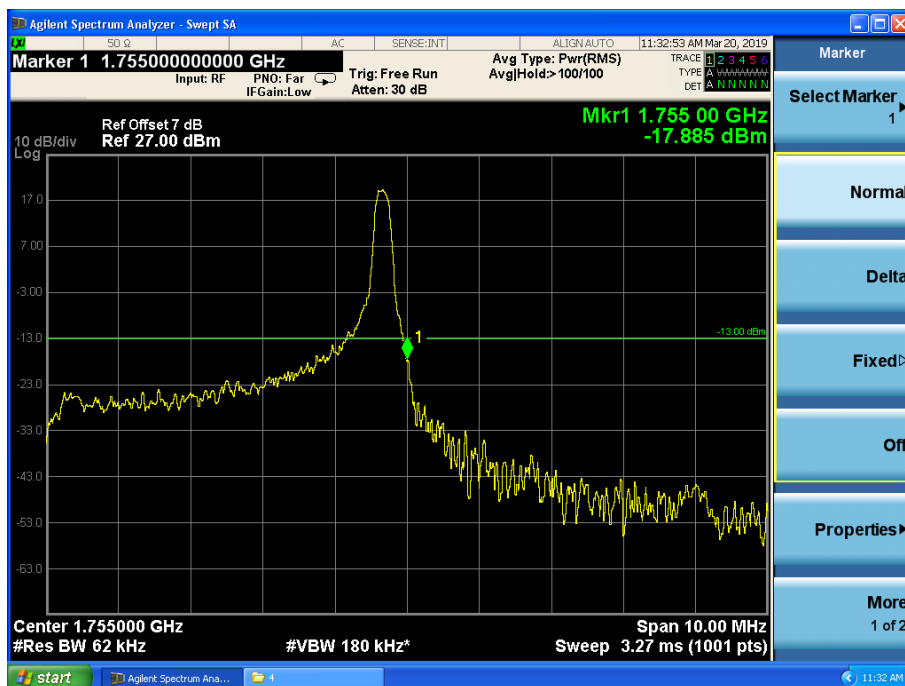


Fig.1



Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1715	20000	10	1	0	Fig.1
				50	0	Fig.4

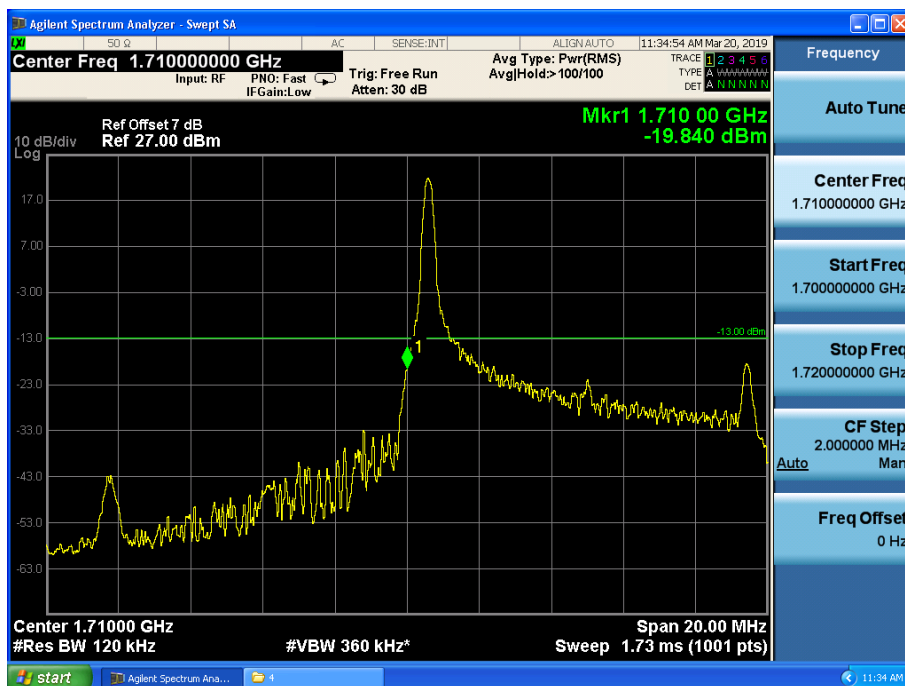


Fig.1

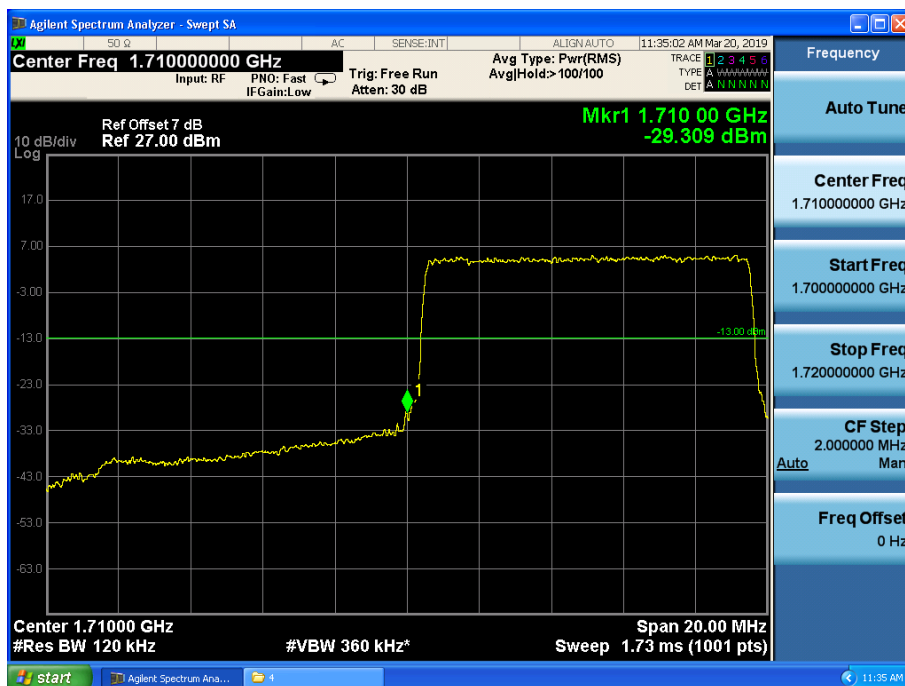


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1750	20350	10	1	0	Fig.1
				50	0	Fig.4

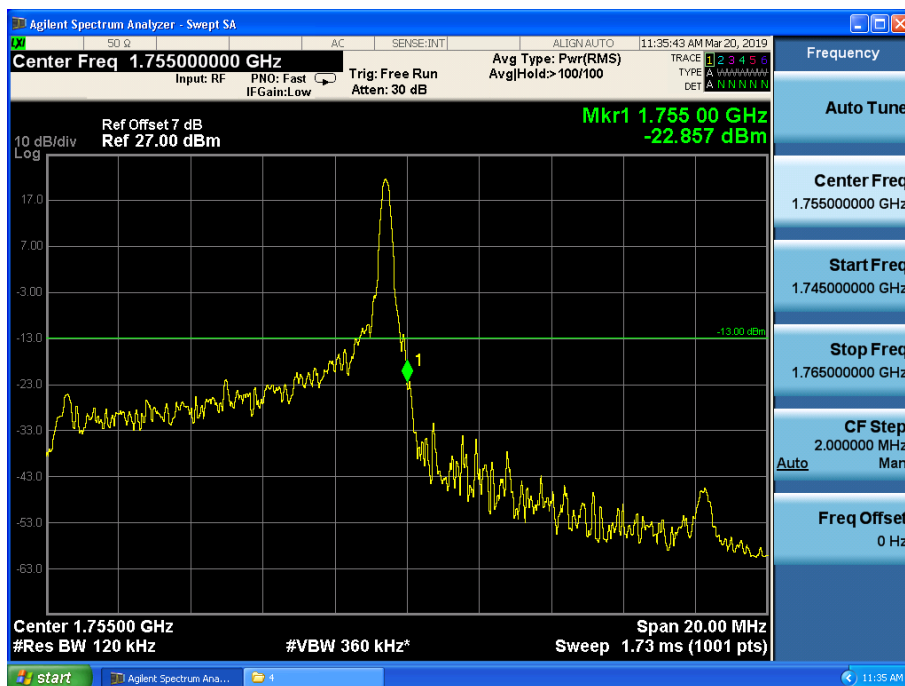


Fig.1

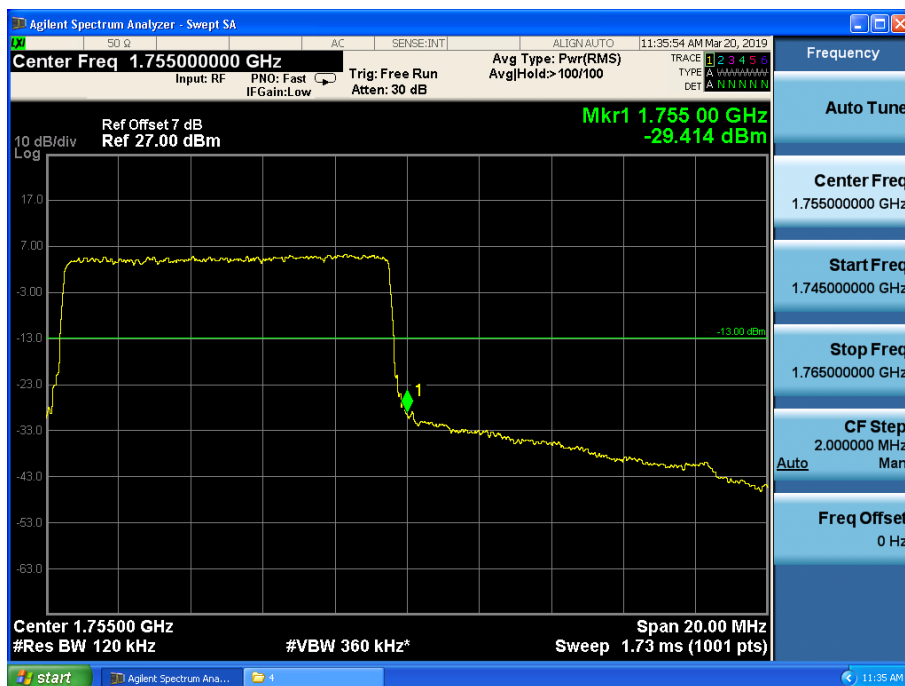


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1717.5	20025	15	1	0	Fig.1
				75	0	Fig.4

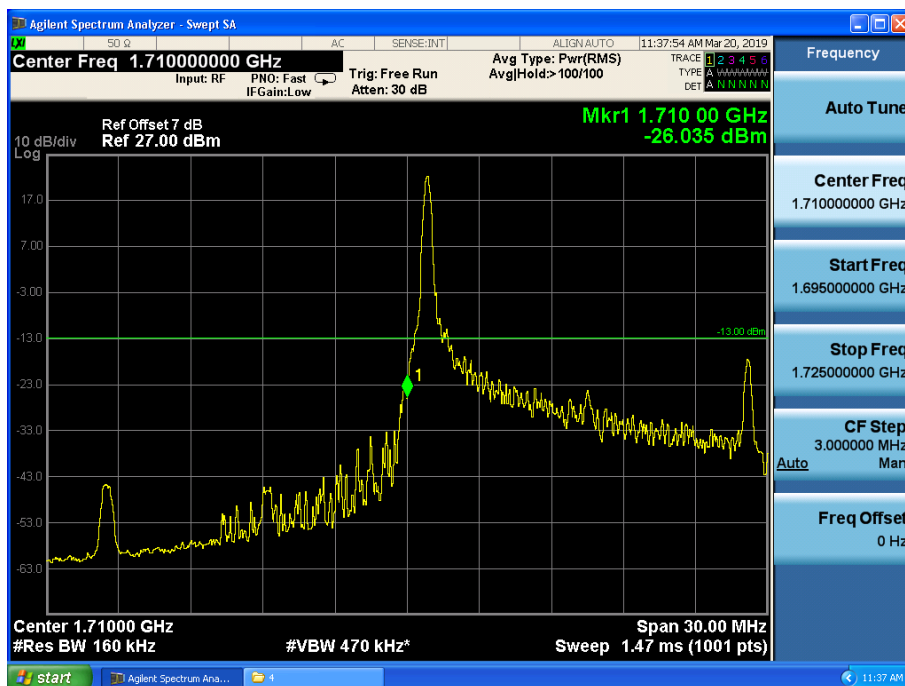


Fig.1

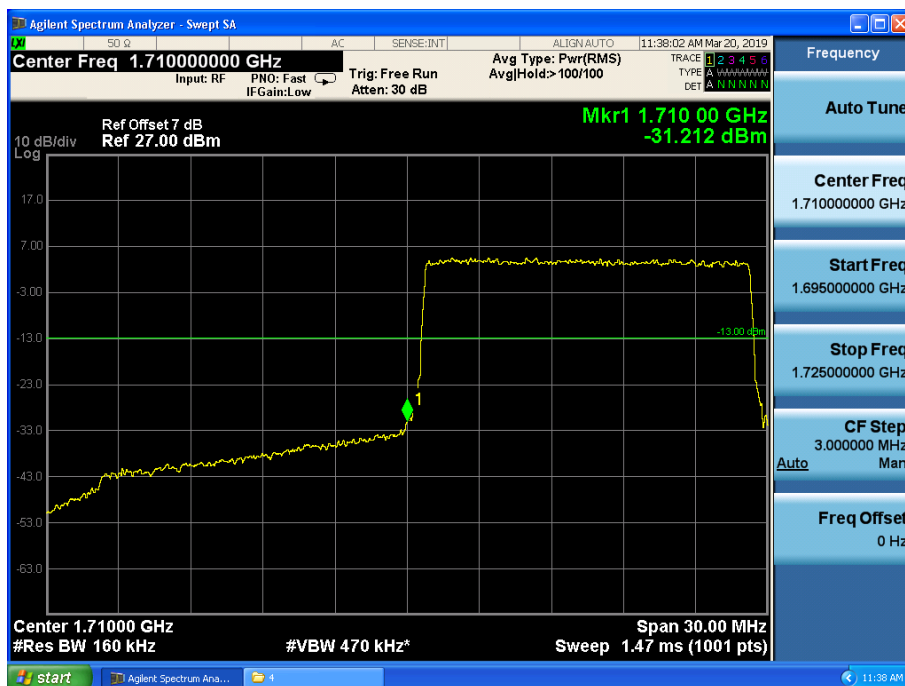


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1747.5	20325	15	1	0	Fig.1
				75	0	Fig.4



Fig.1

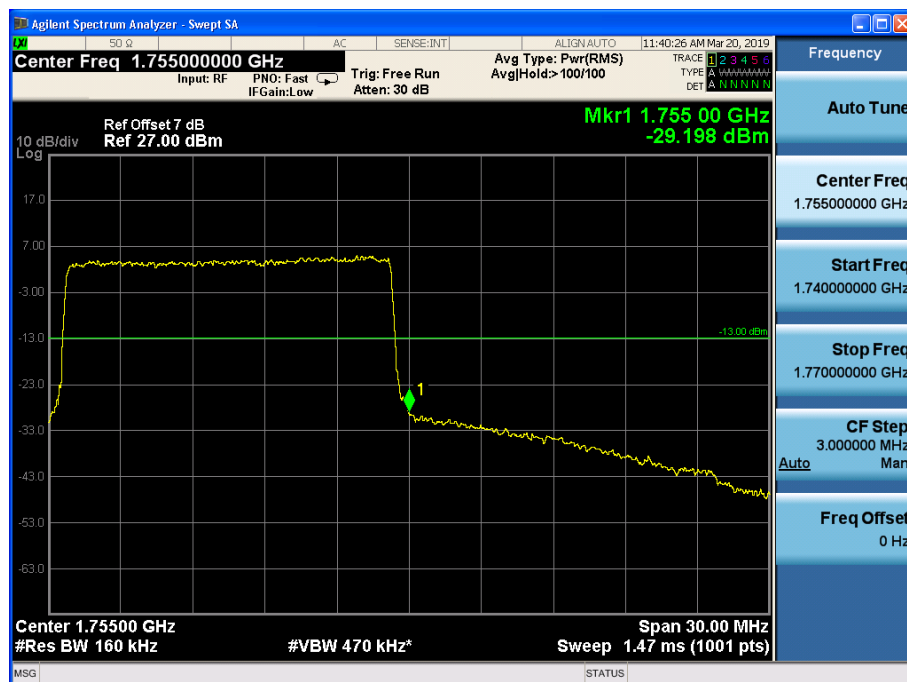


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1720	20050	20	1	0	Fig.1
				100	0	Fig.4

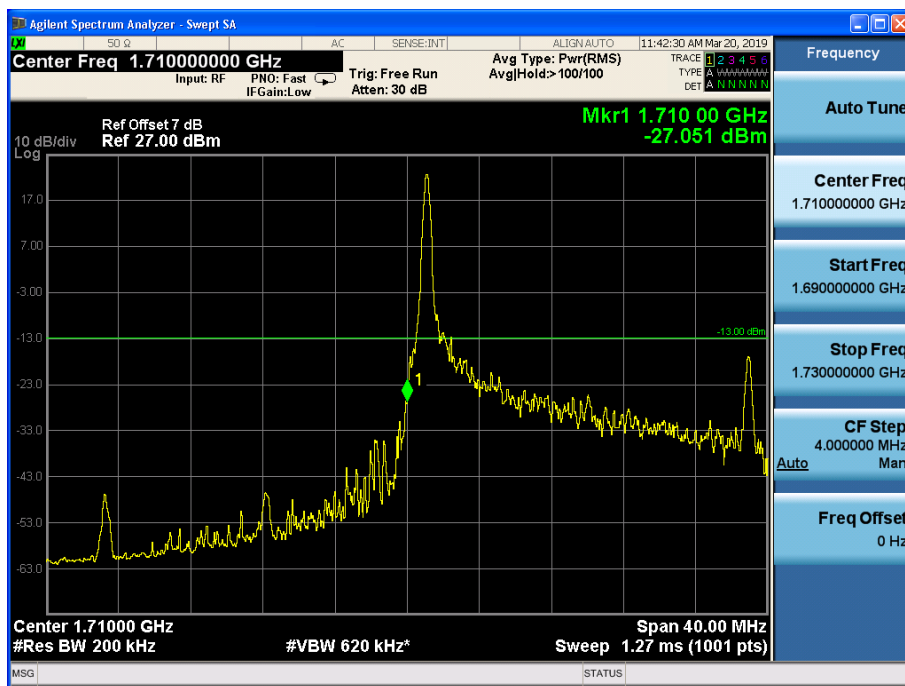


Fig.1

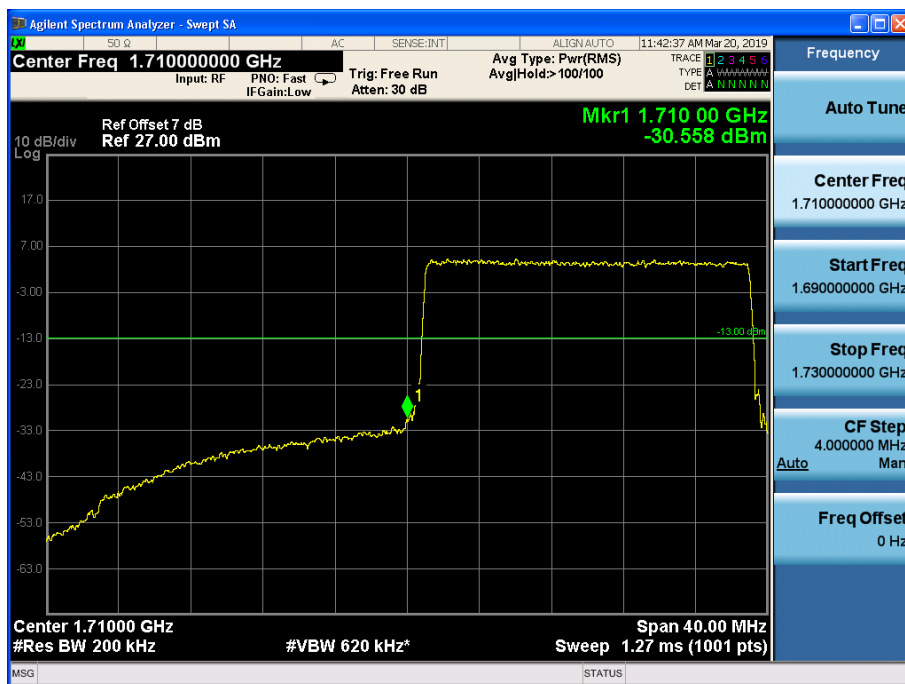


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1745	20300	20	1	0	Fig.1
				100	0	Fig.4

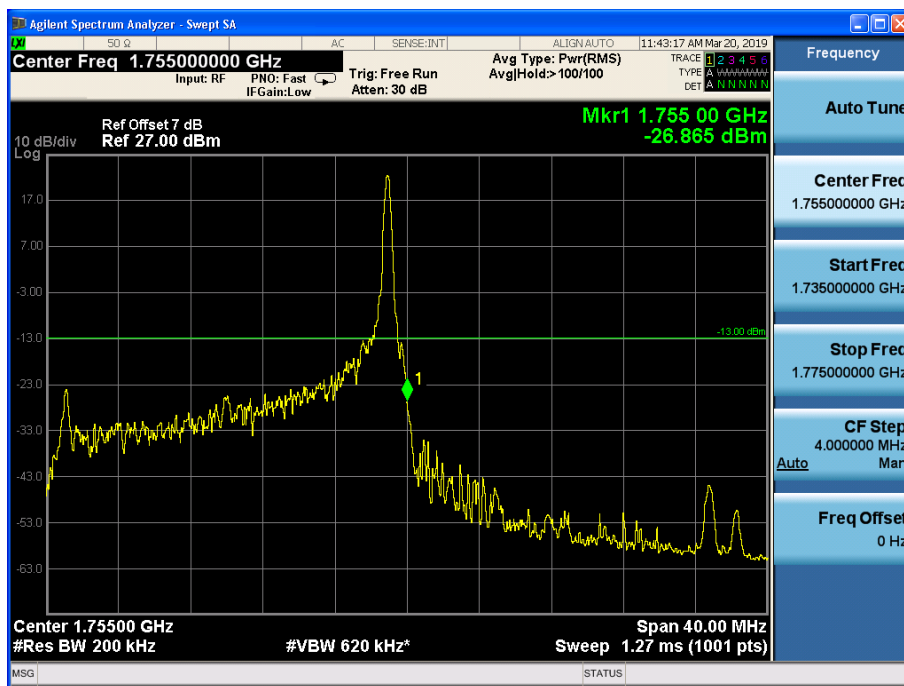


Fig.1

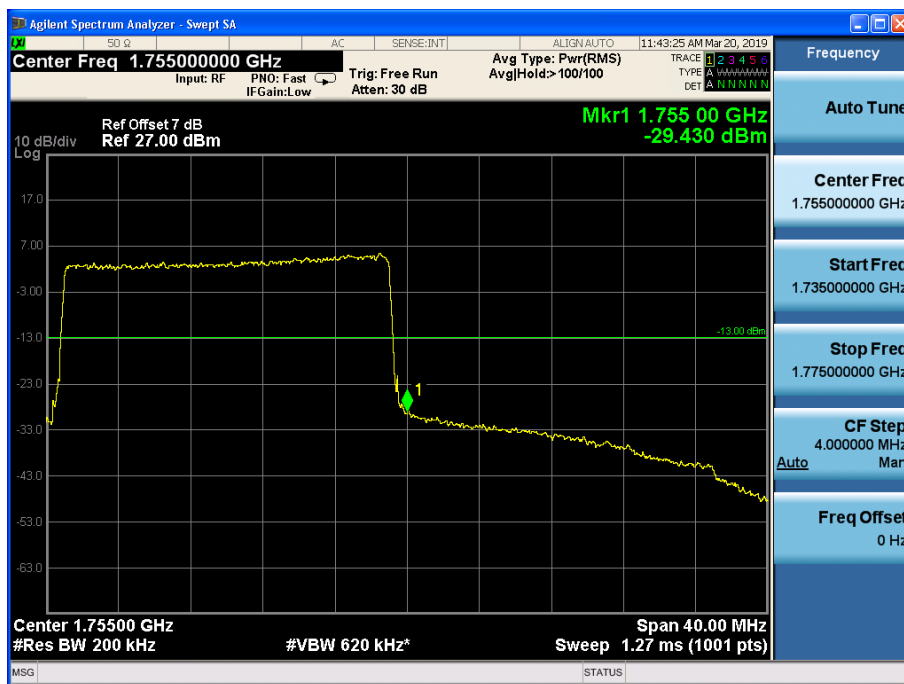


Fig.4

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band4 Low Channel					
		1.4M	3M	5M	10M	15M	20M
0	NV	0.017	0.001	-0.015	-0.004	0.015	0.011
+10	NV	0.006	-0.006	-0.012	-0.009	0.008	0.004
+20	NV	-0.001	-0.014	-0.006	-0.014	-0.008	0.001
+30	NV	0.008	0.001	0.002	-0.003	0.003	-0.006
+40	NV	0.015	0.003	0.004	-0.008	-0.002	0.000
+50	NV	0.005	0.004	0.003	0.009	0.004	0.008
+55	NV	0.010	-0.007	0.003	0.003	0.006	0.009
+20	LV	-0.001	-0.009	0.011	-0.005	-0.006	-0.008
+20	HV	0.010	-0.007	-0.002	0.018	-0.012	0.003

Temperature(°C)	Voltage	Test Result (ppm) Band4 High Channel					
		1.4M	3M	5M	10M	15M	20M
0	NV	-0.012	0.005	0.003	-0.012	0.014	0.013
+10	NV	0.009	-0.011	-0.013	0.004	-0.007	-0.009
+20	NV	0.003	0.005	-0.003	-0.014	0.000	0.009
+30	NV	0.002	0.010	0.003	-0.002	0.003	0.011
+40	NV	-0.014	0.014	0.007	0.008	0.009	-0.003
+50	NV	-0.004	0.013	0.005	-0.013	0.011	0.005
+55	NV	0.004	0.019	0.017	0.008	0.012	-0.004
+20	LV	-0.004	-0.005	-0.008	-0.004	-0.009	-0.001
+20	HV	-0.012	0.002	-0.012	-0.009	-0.010	-0.010

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

1 RF Power Output

Antenna Gain=-3.42dBi

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
QPSK	824.7	20407	1.4	1	0	23.77	0.066
				1	5	23.77	0.066
				3	2	22.91	0.054
				6	0	22.87	0.054
	836.5	20525		1	0	23.79	0.066
				1	5	23.79	0.066
				3	2	22.87	0.054
				6	0	22.83	0.053
	848.3	20643		1	0	23.62	0.064
				1	5	23.62	0.064
				3	2	22.67	0.051
				6	0	22.63	0.051
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
16QAM	824.7	20407	1.4	1	0	23.40	0.061
				1	5	23.34	0.060
				3	2	21.92	0.043
				6	0	21.86	0.043
	836.5	20525		1	0	23.36	0.060
				1	5	23.29	0.059
				3	2	21.89	0.043
				6	0	21.83	0.042
	848.3	20643		1	0	23.16	0.057
				1	5	23.12	0.057
				3	2	21.76	0.042
				6	0	21.73	0.041
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
64QAM	824.7	20407	1.4	1	0	23.33	0.060
				1	5	23.26	0.059
				3	2	22.00	0.044
				6	0	21.91	0.043
	836.5	20525		1	0	23.33	0.060
				1	5	23.26	0.059
				3	2	21.95	0.043
				6	0	21.90	0.043
	848.3	20643		1	0	22.96	0.055
				1	5	22.93	0.054
				3	2	21.73	0.041
				6	0	21.62	0.040

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
QPSK	825.5	20415	3	1	0	23.65	0.064
				1	14	23.65	0.064
				8	4	22.79	0.053
				15	0	22.75	0.052
	836.5	20525		1	0	23.70	0.065
				1	14	23.70	0.065
				8	4	22.78	0.053
				15	0	22.74	0.052
	847.5	20635		1	0	23.56	0.063
				1	14	23.56	0.063
				8	4	22.61	0.051
				15	0	22.57	0.050
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
16QAM	825.5	20415	3	1	0	23.28	0.059
				1	14	23.22	0.058
				8	4	21.80	0.042
				15	0	21.74	0.041
	836.5	20525		1	0	23.27	0.059
				1	14	23.20	0.058
				8	4	21.80	0.042
				15	0	21.74	0.041
	847.5	20635		1	0	23.10	0.057
				1	14	23.06	0.056
				8	4	21.70	0.041
				15	0	21.67	0.041
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
64QAM	825.5	20415	3	1	0	23.21	0.058
				1	14	23.14	0.057
				8	4	21.88	0.043
				15	0	21.79	0.042
	836.5	20525		1	0	23.24	0.058
				1	14	23.17	0.058
				8	4	21.86	0.043
				15	0	21.81	0.042
	847.5	20635		1	0	22.90	0.054
				1	14	22.87	0.054
				8	4	21.67	0.041
				15	0	21.56	0.040

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
QPSK	826.5	20425	5	1	0	23.72	0.065
				1	24	23.72	0.065
				12	6	22.86	0.054
				25	0	22.82	0.053
	836.5	20525		1	0	23.79	0.066
				1	24	23.79	0.066
				12	6	22.87	0.054
				25	0	22.83	0.053
	846.5	20625		1	0	23.66	0.064
				1	24	23.66	0.064
				12	6	22.71	0.052
				25	0	22.67	0.051
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
16QAM	826.5	20425	5	1	0	23.35	0.060
				1	24	23.29	0.059
				12	6	21.87	0.043
				25	0	21.81	0.042
	836.5	20525		1	0	23.33	0.060
				1	24	23.29	0.059
				12	6	21.89	0.043
				25	0	21.83	0.042
	846.5	20625		1	0	23.20	0.058
				1	24	23.16	0.057
				12	6	21.80	0.042
				25	0	21.77	0.042
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
64QAM	826.5	20425	5	1	0	23.28	0.059
				1	24	23.21	0.058
				12	6	21.95	0.043
				25	0	21.86	0.043
	836.5	20525		1	0	23.30	0.059
				1	24	23.26	0.059
				12	6	21.95	0.043
				25	0	21.90	0.043
	846.5	20625		1	0	23.00	0.055
				1	24	22.97	0.055
				12	6	21.77	0.042
				25	0	21.66	0.041

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
QPSK	829	20450	10	1	0	23.92	0.068
				1	49	23.92	0.068
				24	12	23.02	0.056
				50	0	22.98	0.055
	836.5	20525		1	0	23.97	0.069
				1	49	23.97	0.069
				24	12	23.05	0.056
				50	0	23.01	0.055
	844	20600		1	0	23.89	0.068
				1	49	23.89	0.068
				24	12	22.92	0.054
				50	0	22.88	0.054
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
16QAM	829	20450	10	1	0	23.45	0.061
				1	49	23.45	0.061
				24	12	22.03	0.044
				50	0	21.97	0.044
	836.5	20525		1	0	23.47	0.062
				1	49	23.47	0.062
				24	12	22.07	0.045
				50	0	22.01	0.044
	844	20600		1	0	23.37	0.060
				1	49	23.37	0.060
				24	12	22.01	0.044
				50	0	21.98	0.044
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP (W)
64QAM	829	20450	10	1	0	23.37	0.060
				1	49	23.37	0.060
				24	12	22.11	0.045
				50	0	22.02	0.044
	836.5	20525		1	0	23.44	0.061
				1	49	23.44	0.061
				24	12	22.13	0.045
				50	0	22.08	0.045
	844	20600		1	0	23.18	0.058
				1	49	23.18	0.058
				24	12	21.98	0.044
				50	0	21.87	0.043

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
5	824.7	20407	1.4	6	0	1.1004	Fig.1	1.1006	Fig.2	1.1002	Fig.3
5	836.5	20525	1.4	6	0	1.0995	Fig.4	1.0997	Fig.5	1.1009	Fig.6
5	848.3	20643	1.4	6	0	1.1007	Fig.7	1.0997	Fig.8	1.1019	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
5	824.7	20407	1.4	6	0	1.328	Fig.1	1.320	Fig.2	1.357	Fig.3
5	836.5	20525	1.4	6	0	1.314	Fig.4	1.333	Fig.5	1.306	Fig.6
5	848.3	20643	1.4	6	0	1.327	Fig.7	1.309	Fig.8	1.330	Fig.9

Fig.1

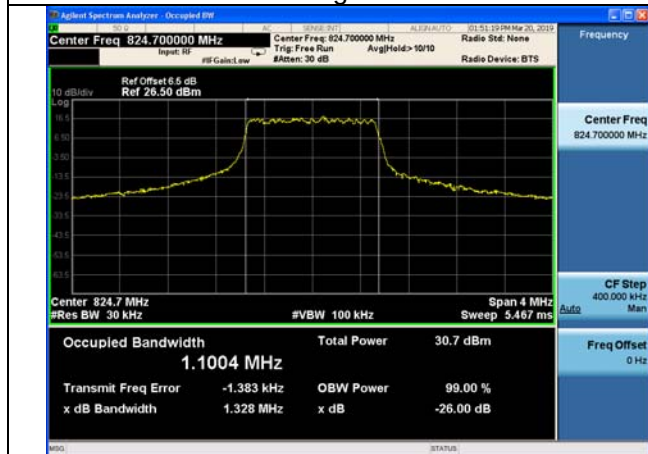


Fig.2

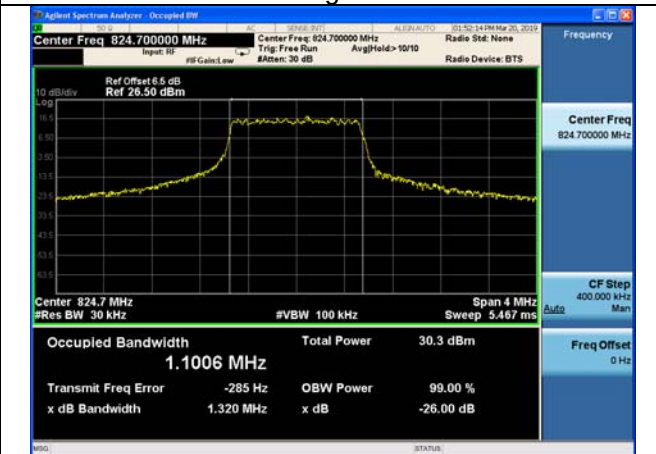


Fig.3

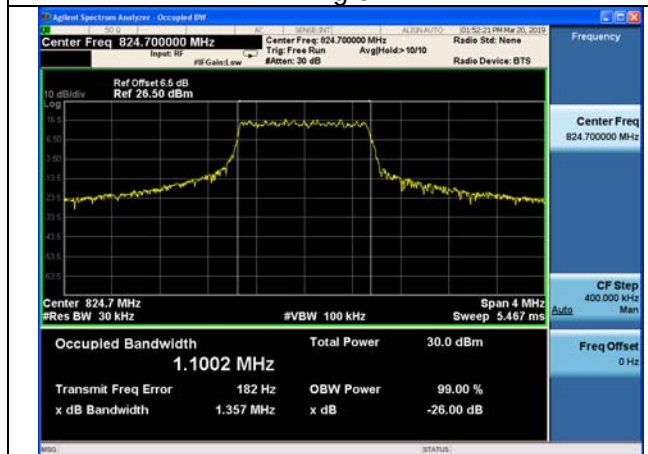


Fig.4



Fig.5

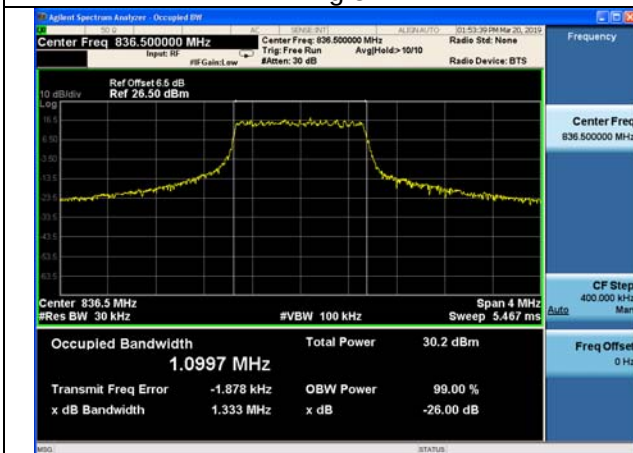


Fig.6

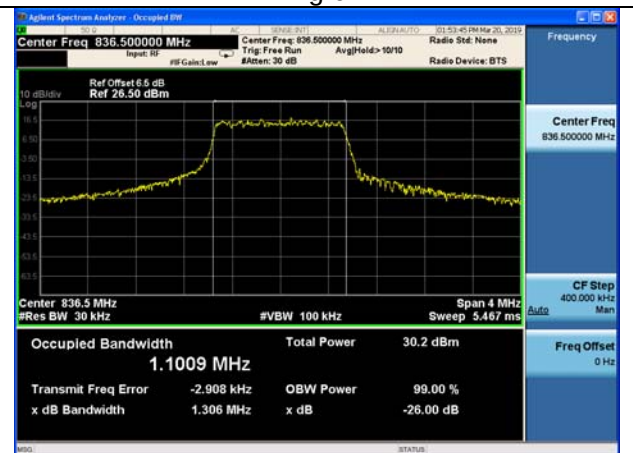


Fig.7

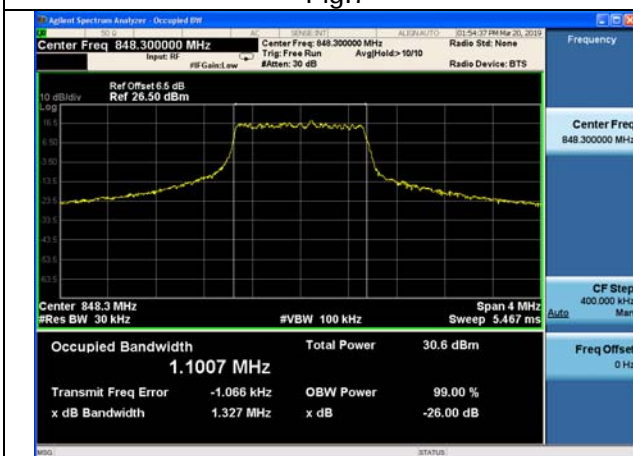
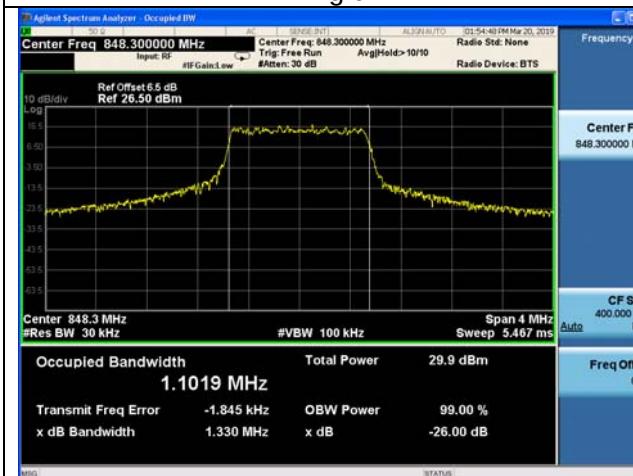


Fig.8



Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
5	825.5	20415	3	15	0	2.7721	Fig.1	2.7707	Fig.2	2.7708	Fig.3
5	836.5	20525	3	15	0	2.7695	Fig.4	2.7656	Fig.5	2.7548	Fig.6
5	847.5	20635	3	15	0	2.7616	Fig.7	2.7692	Fig.8	2.7689	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
5	825.5	20415	3	15	0	3.522	Fig.1	3.459	Fig.2	3.572	Fig.3
5	836.5	20525	3	15	0	3.494	Fig.4	3.491	Fig.5	3.537	Fig.6
5	847.5	20635	3	15	0	3.540	Fig.7	3.546	Fig.8	3.515	Fig.9

Fig.1

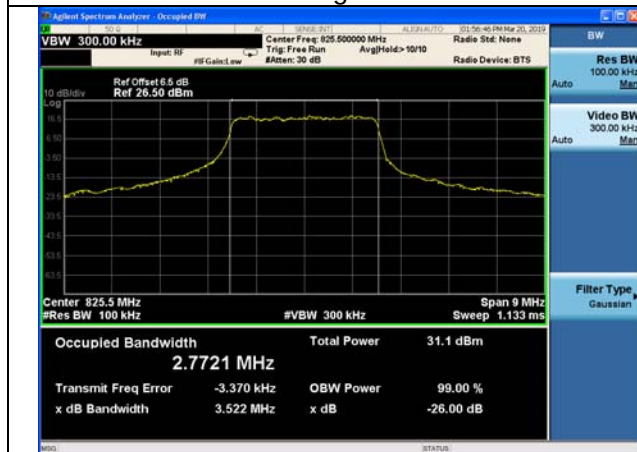


Fig.2

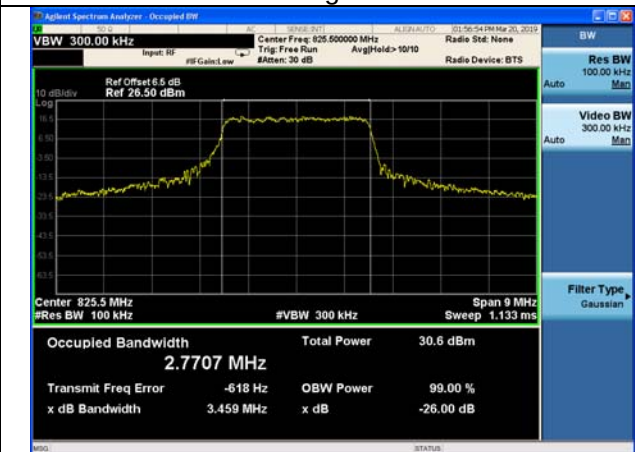


Fig.3

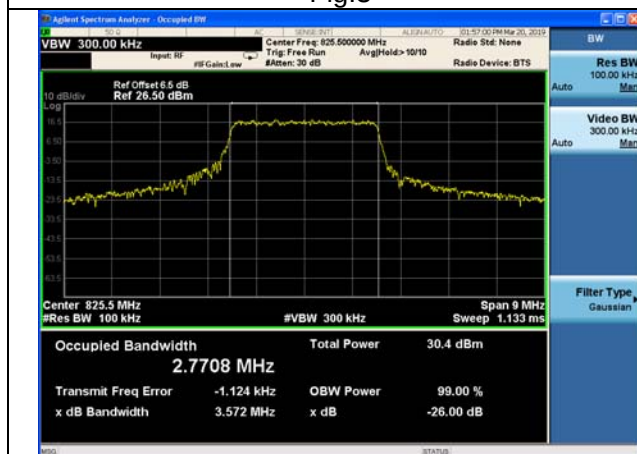


Fig.4

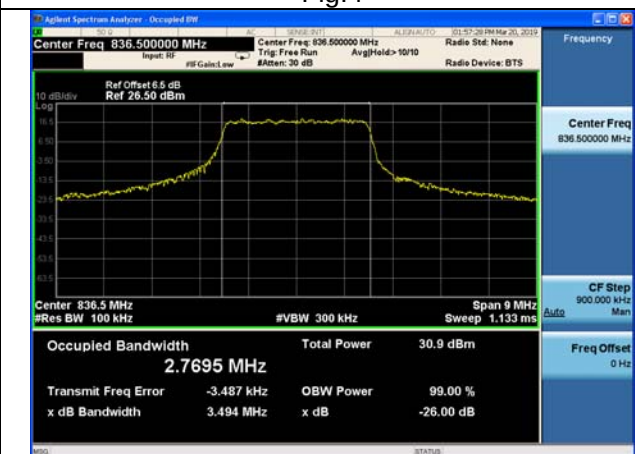


Fig.5



Fig.6

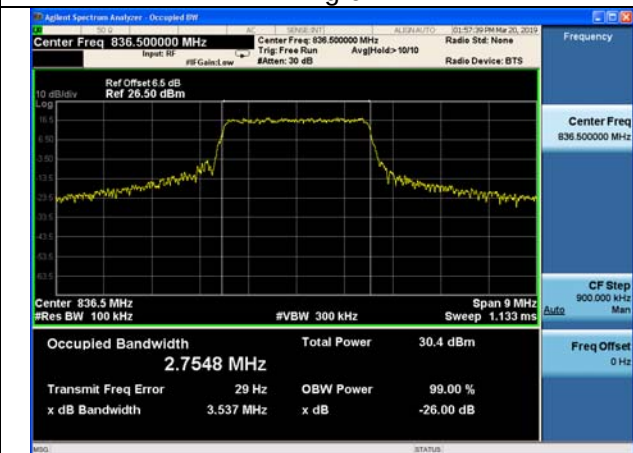


Fig.7

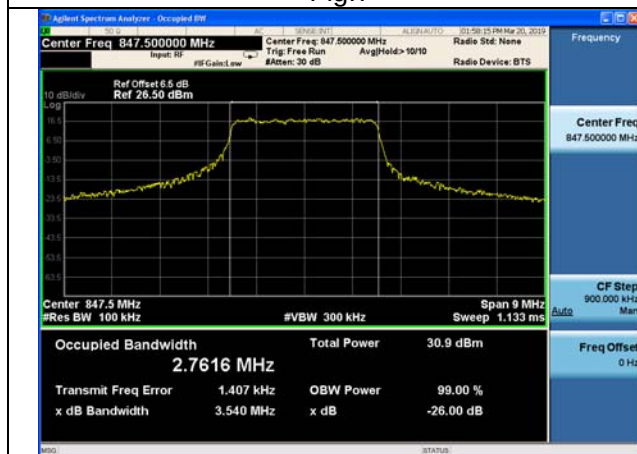


Fig.8

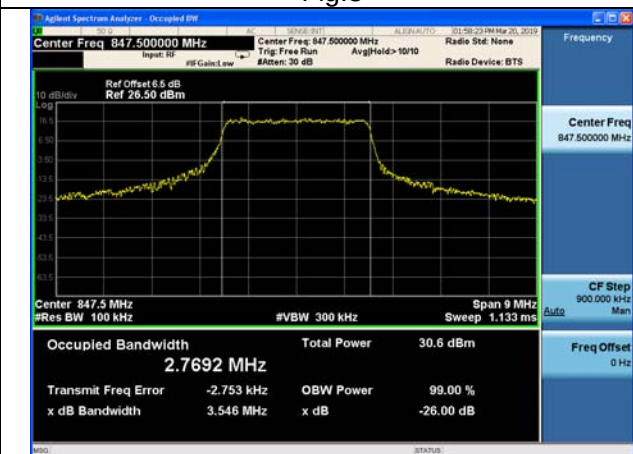
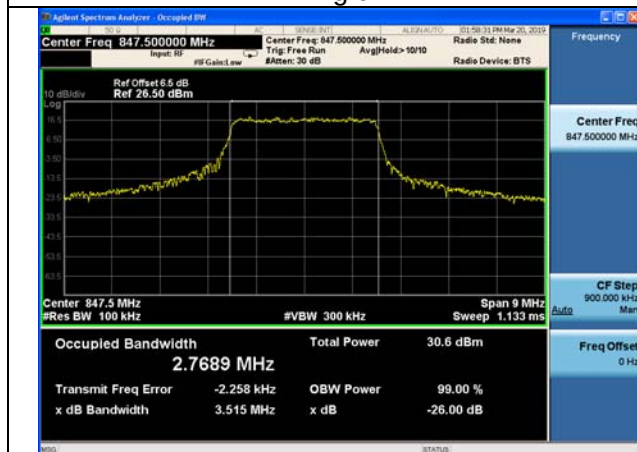


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
5	826.5	20425	5	25	0	4.5199	Fig.1	4.5165	Fig.2	4.5135	Fig.3
5	836.5	20525	5	25	0	4.5238	Fig.4	4.5188	Fig.5	4.5168	Fig.6
5	846.5	20625	5	25	0	4.5186	Fig.7	4.5190	Fig.8	4.5142	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
5	826.5	20425	5	25	0	5.292	Fig.1	5.262	Fig.2	5.247	Fig.3
5	836.5	20525	5	25	0	5.252	Fig.4	5.195	Fig.5	5.056	Fig.6
5	846.5	20625	5	25	0	5.199	Fig.7	5.239	Fig.8	5.209	Fig.9

Fig.1

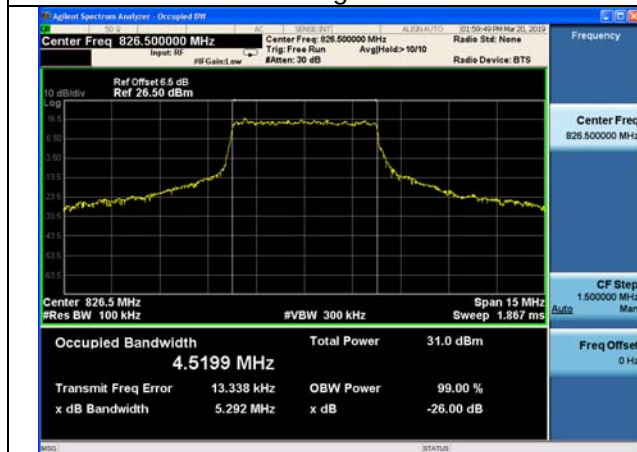


Fig.2

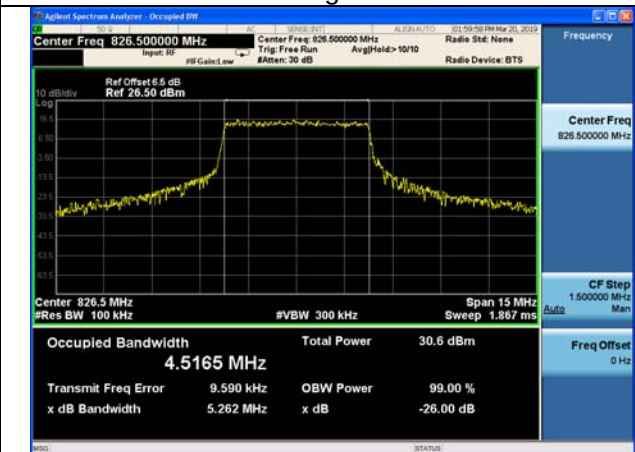


Fig.3

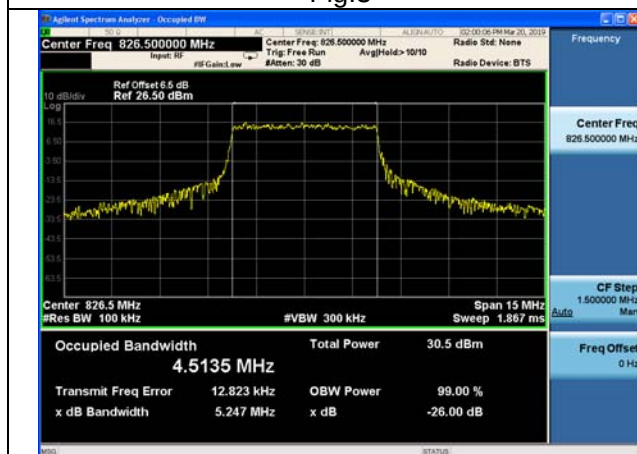


Fig.4

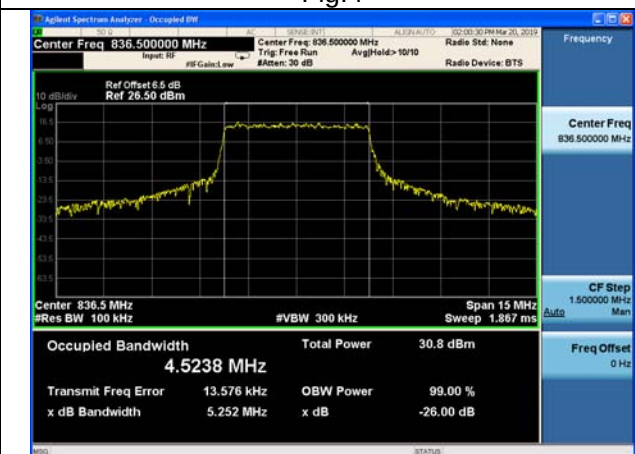


Fig.5



Fig.6

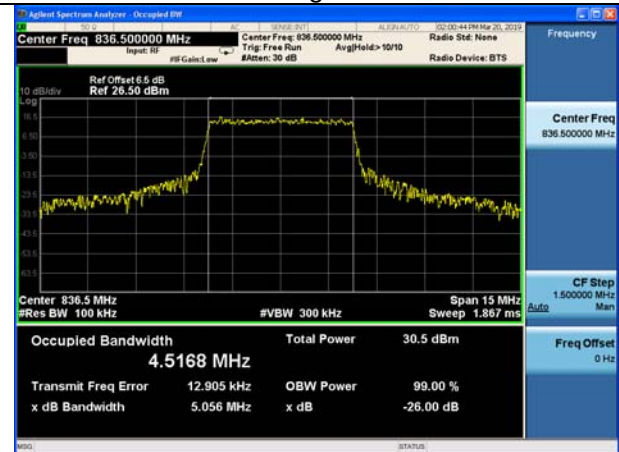


Fig.7



Fig.8

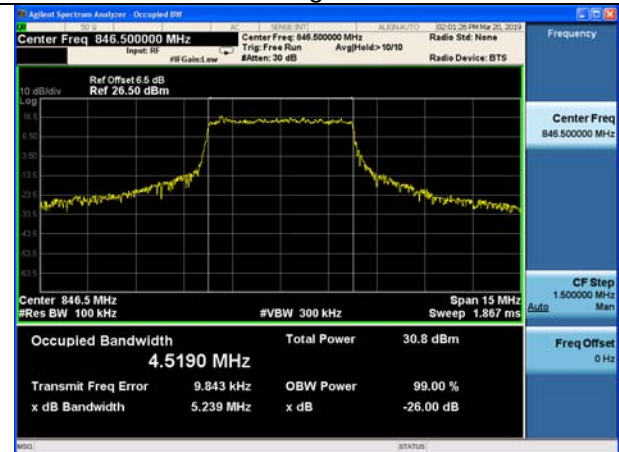


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
5	829	20450	10	50	0	9.1042	Fig.1	9.0726	Fig.2	9.0823	Fig.3
5	836.5	20525	10	50	0	9.0835	Fig.4	9.0533	Fig.5	9.0949	Fig.6
5	844	20600	10	50	0	9.0808	Fig.7	9.0705	Fig.8	9.0718	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
5	829	20450	10	50	0	10.62	Fig.1	10.50	Fig.2	10.57	Fig.3
5	836.5	20525	10	50	0	10.62	Fig.4	10.41	Fig.5	10.73	Fig.6
5	844	20600	10	50	0	10.65	Fig.7	10.42	Fig.8	10.32	Fig.9

Fig.1

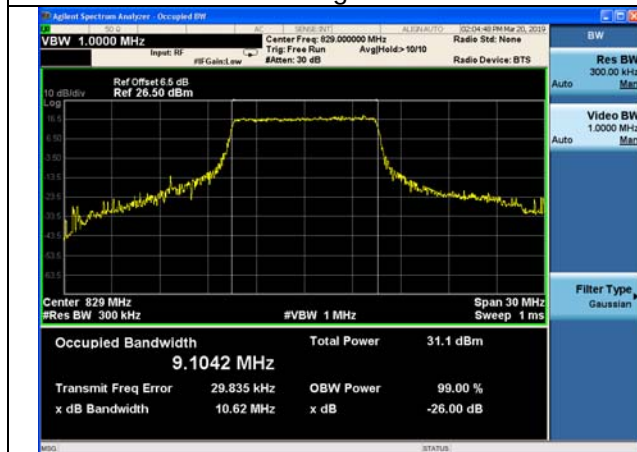


Fig.2

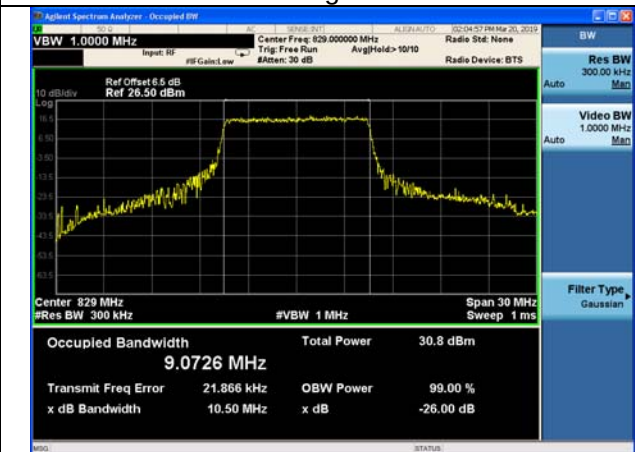


Fig.3

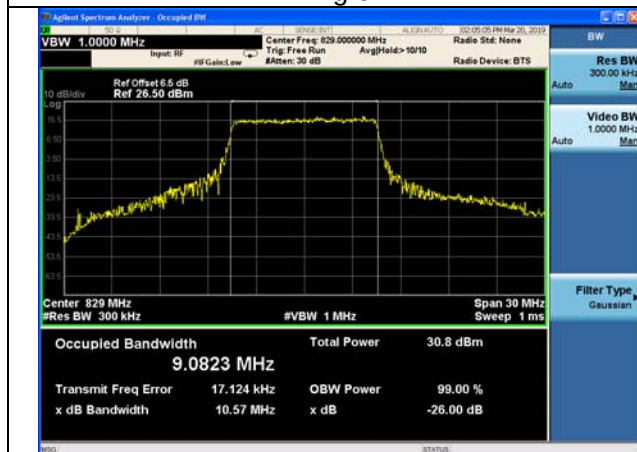


Fig.4

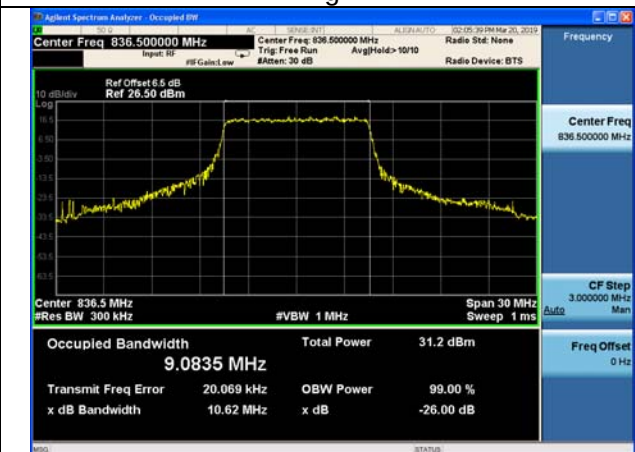


Fig.5

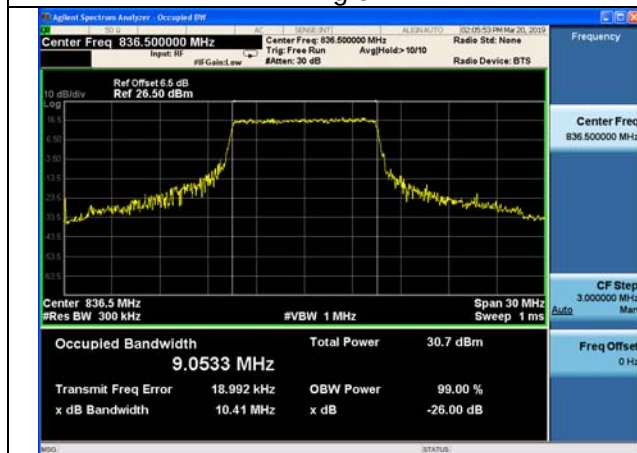


Fig.6

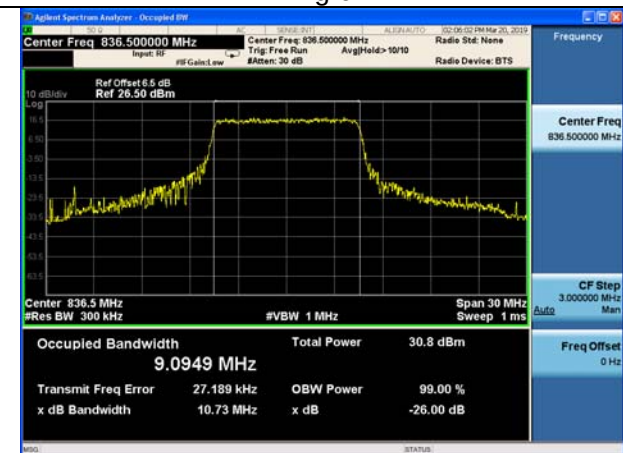


Fig.7

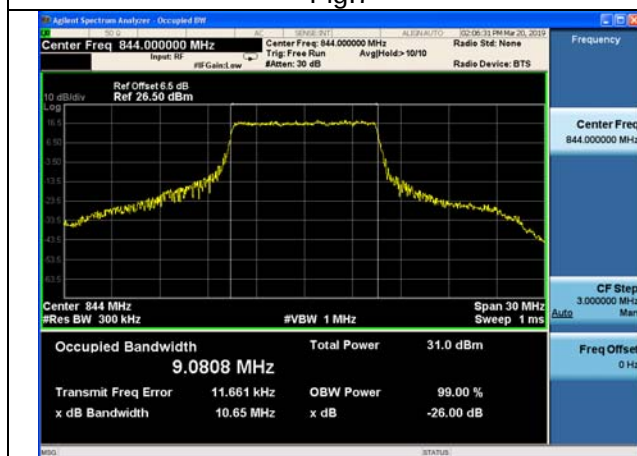


Fig.8

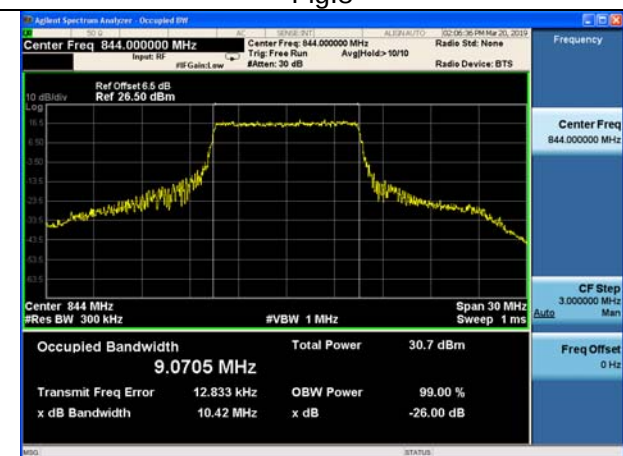
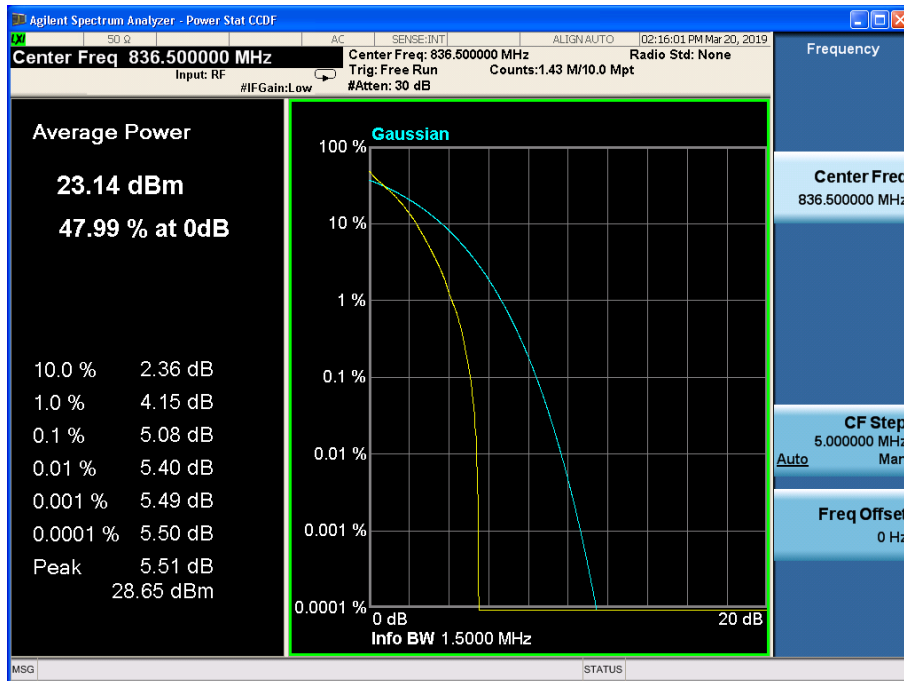


Fig.9

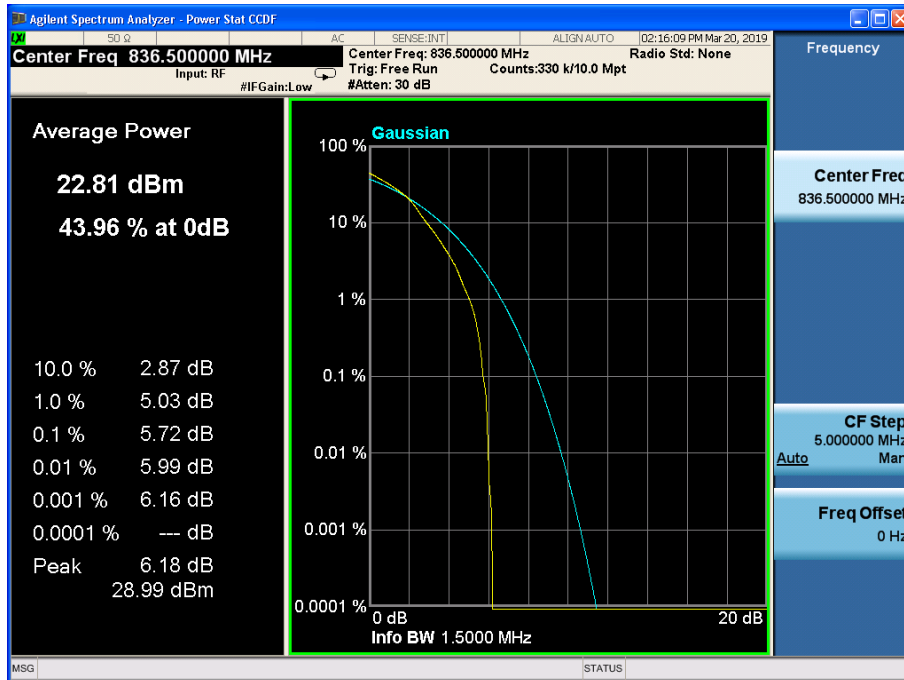


3 Peak-Average Ratio

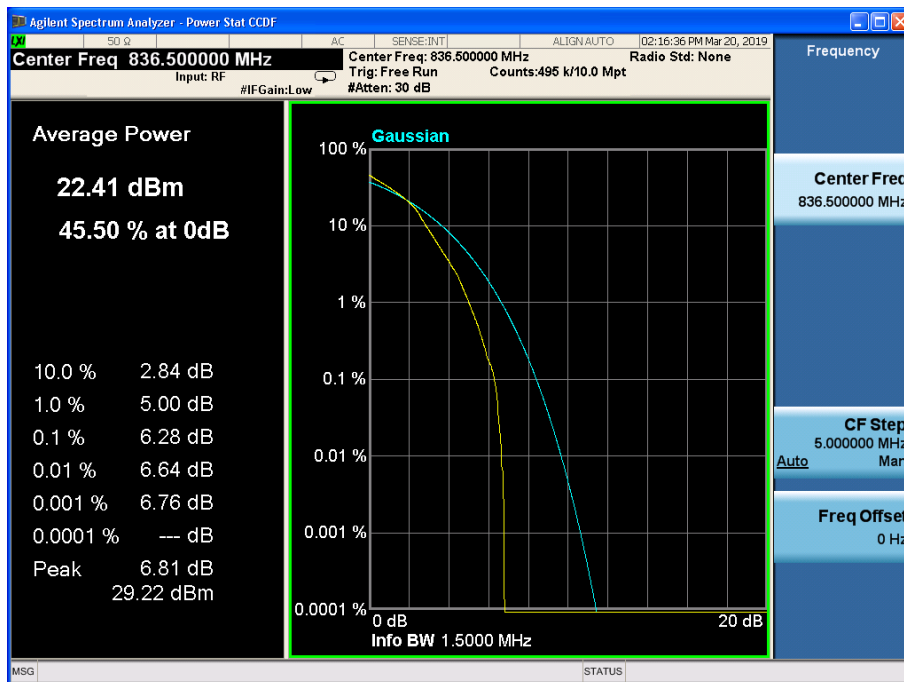
Test result:



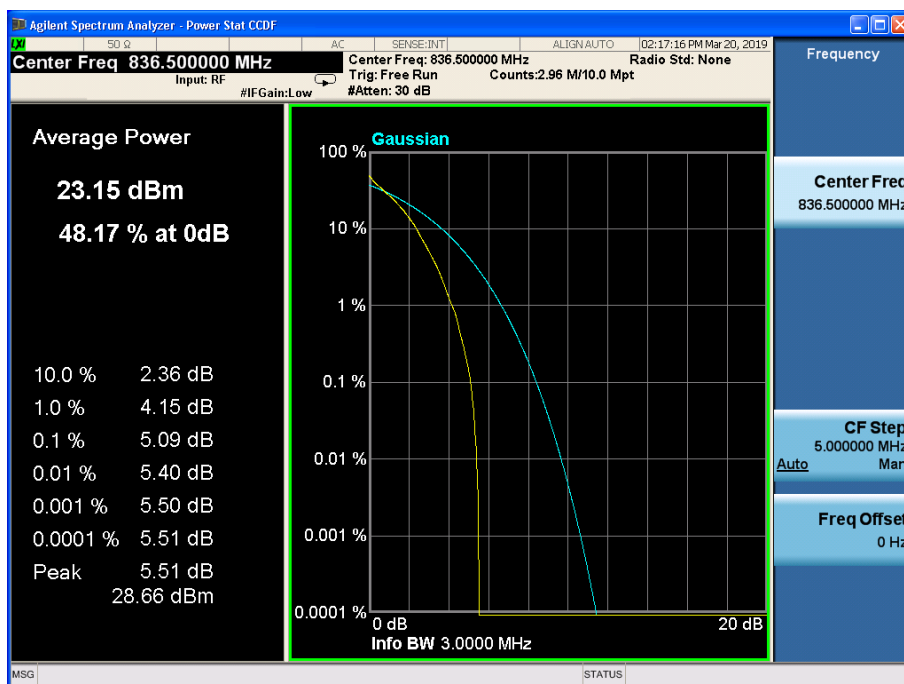
Peak-Average Ratio Plot(1.4MHz BW,QPSK,Band 5-mid Channel)



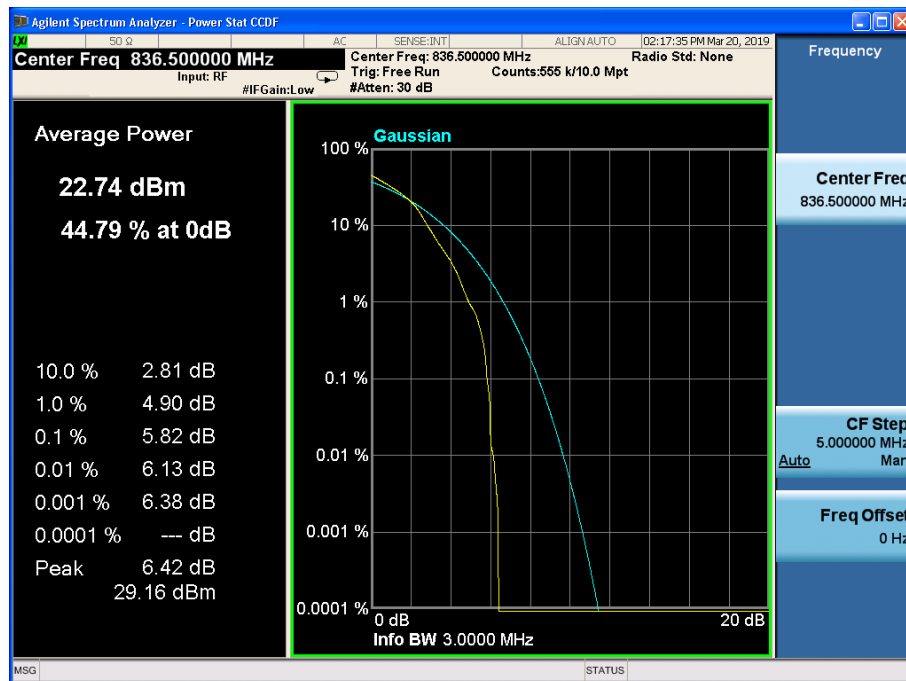
Peak-Average Ratio Plot(1.4MHz BW,16QAM,Band 5-mid Channel)



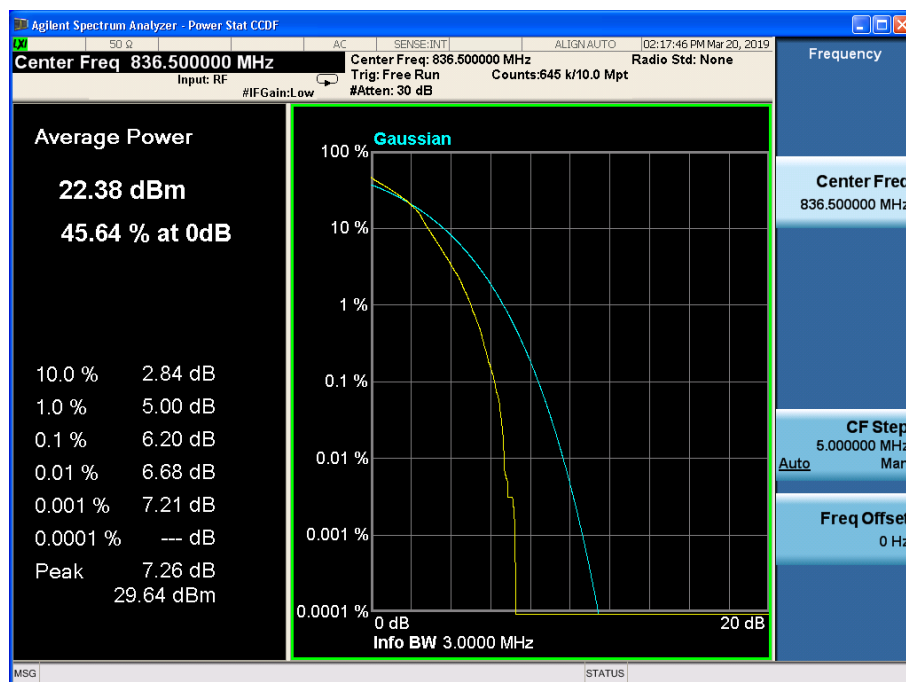
Peak-Average Ratio Plot(1.4MHz BW,64QAM,Band 5-mid Channel)



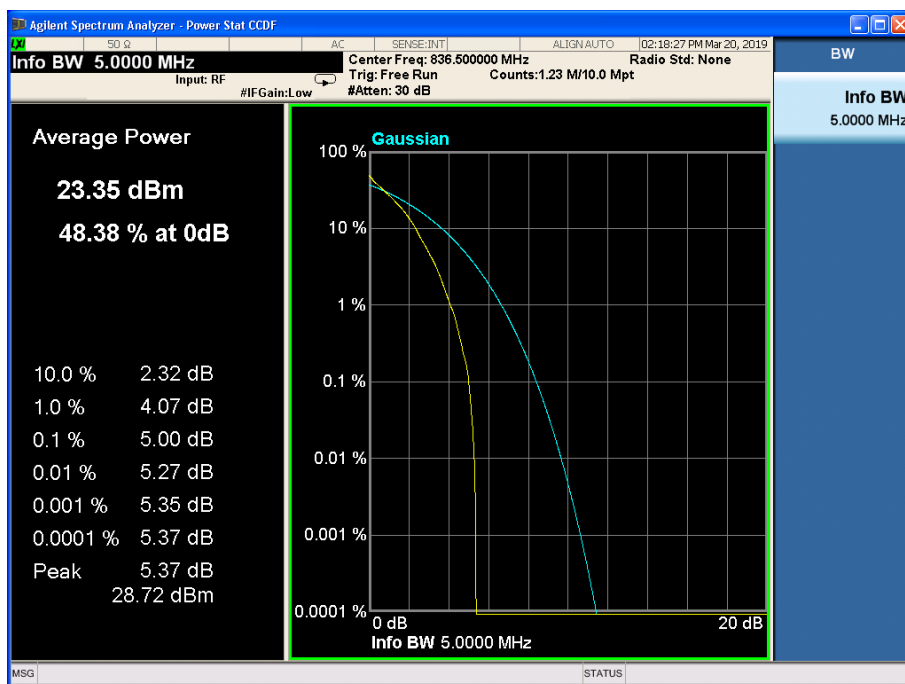
Peak-Average Ratio Plot(3MHz BW,QPSK,Band 5-mid Channel)



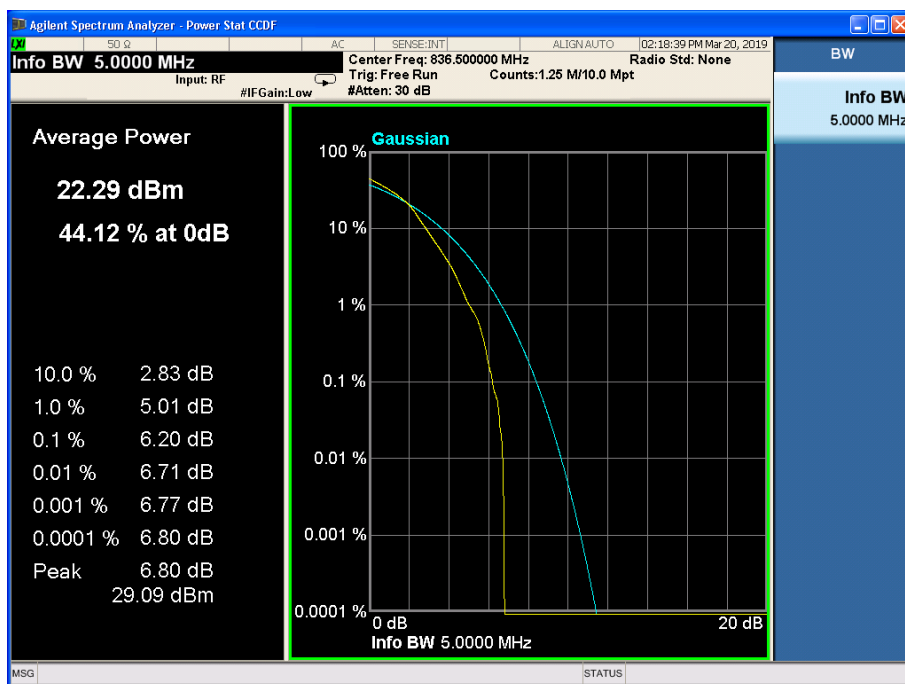
Peak-Average Ratio Plot(3MHz BW,16QAM,Band 5-mid Channel)



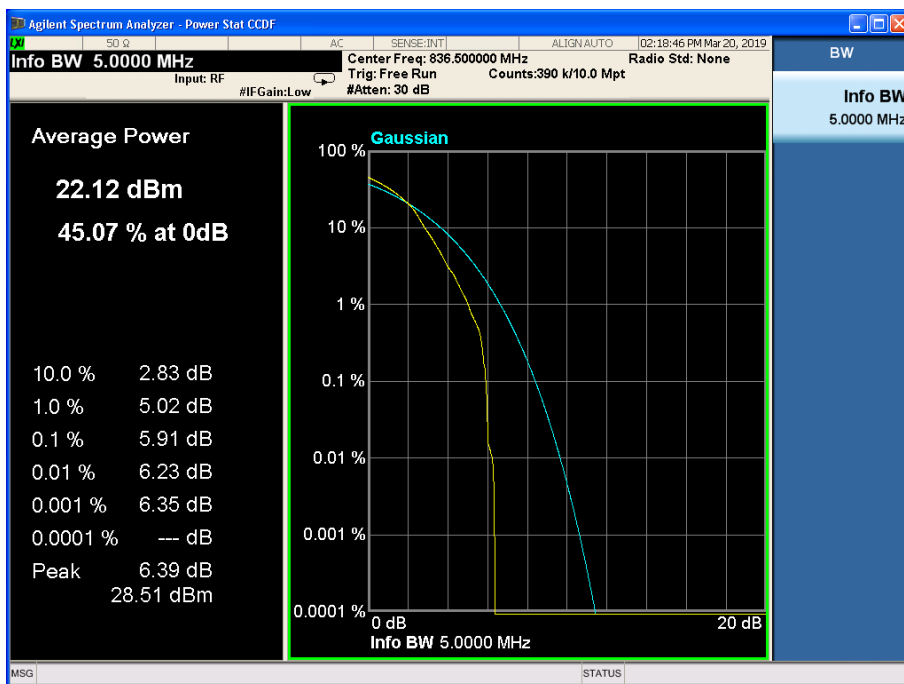
Peak-Average Ratio Plot(3MHz BW,64QAM,Band 5-mid Channel)



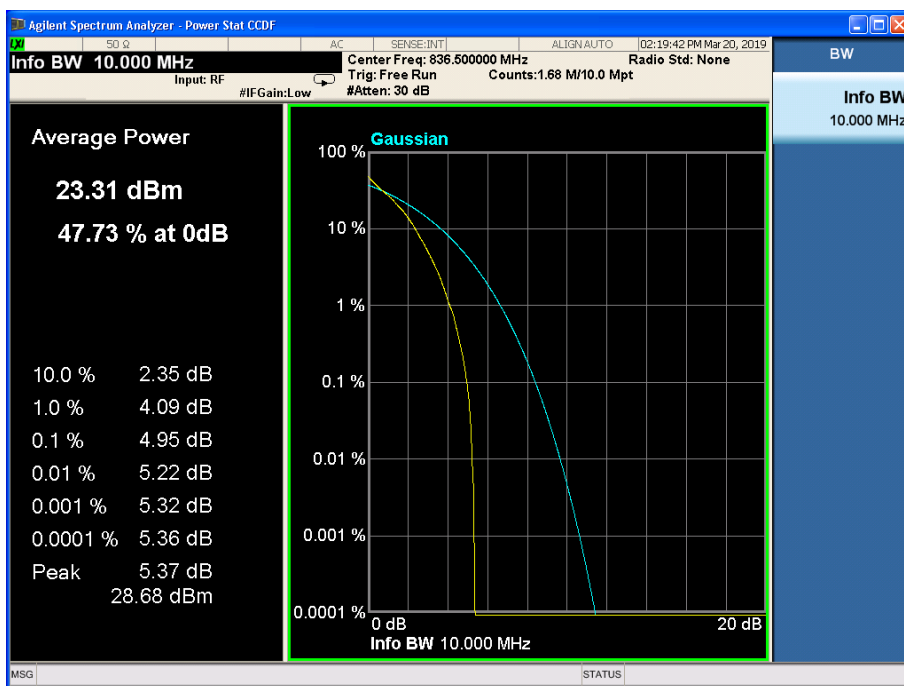
Peak-Average Ratio Plot(5MHz BW,QPSK,Band 5-mid Channel)



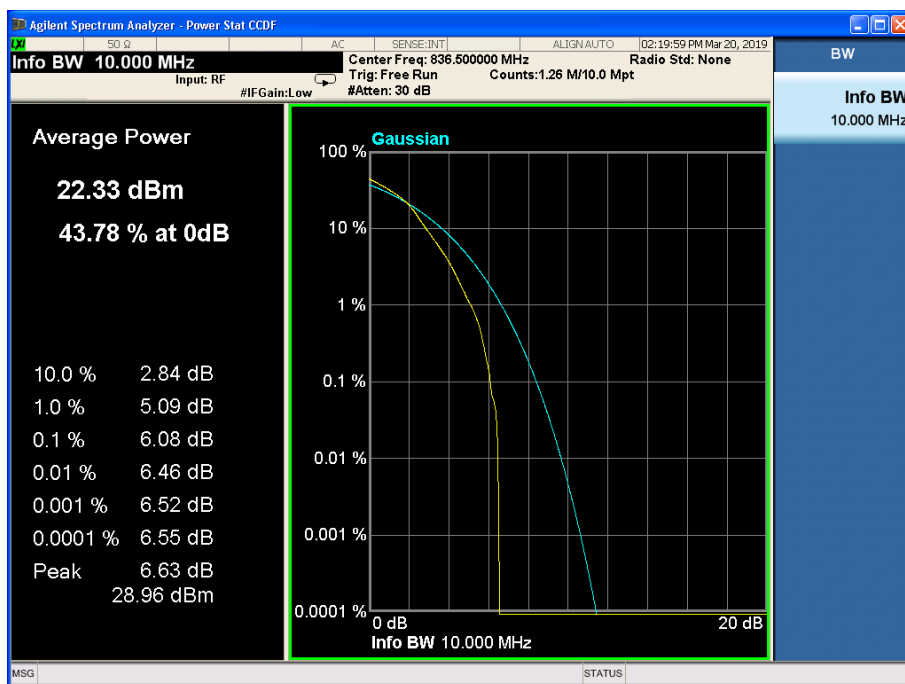
Peak-Average Ratio Plot(5MHz BW,16QAM,Band 5-mid Channel)



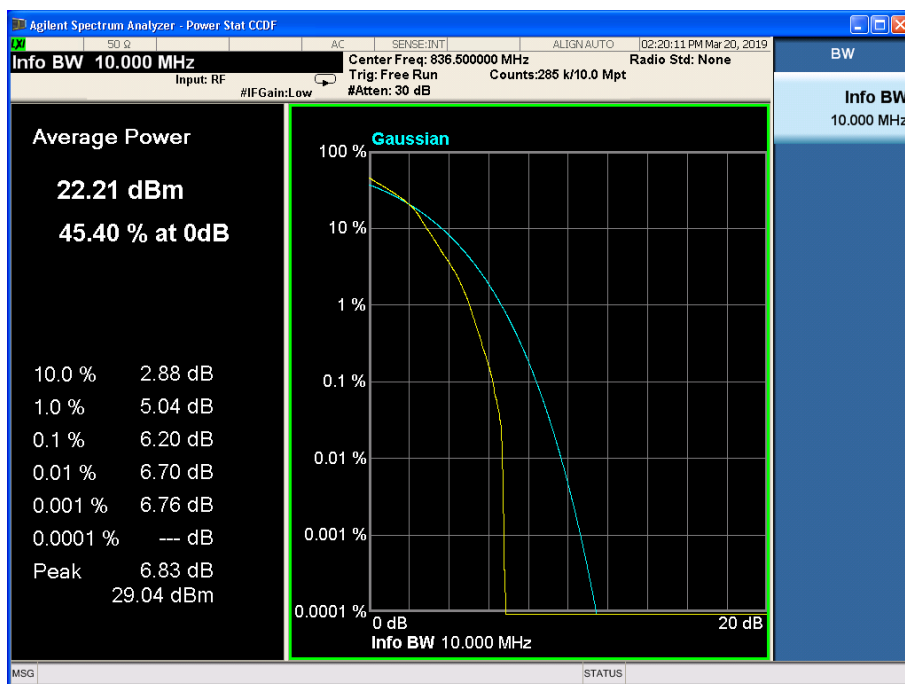
Peak-Average Ratio Plot(5MHz BW,64QAM,Band 5-mid Channel)



Peak-Average Ratio Plot(10MHz BW,QPSK,Band 5-mid Channel)



Peak-Average Ratio Plot(10MHz BW,16QAM,Band 5-mid Channel)



Peak-Average Ratio Plot(10MHz BW,64QAM,Band 5-mid Channel)

4 Spurious Emissions at antenna terminal

Test result

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
5	829	20450	10	1	0	Fig.1

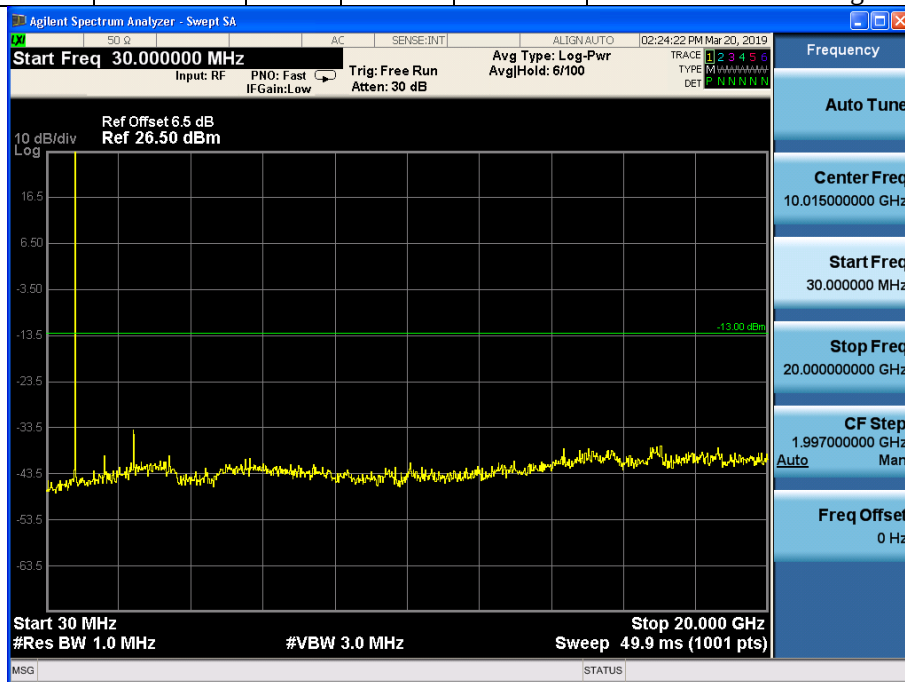


Fig.1

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
5	836.5	20525	10	1	0	Fig.1

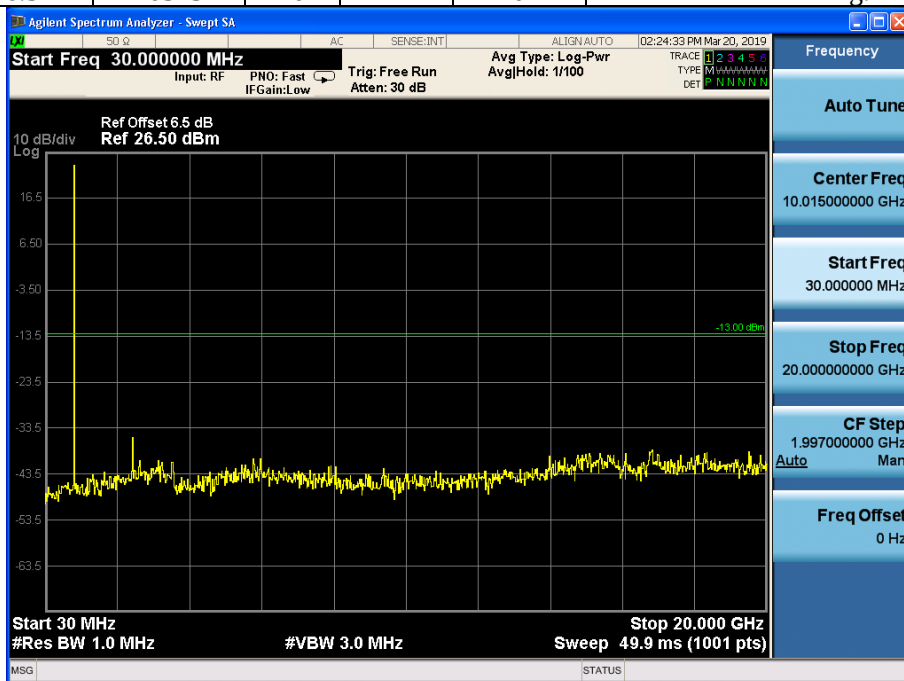


Fig.1

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
5	844	20600	10	1	0	Fig.1

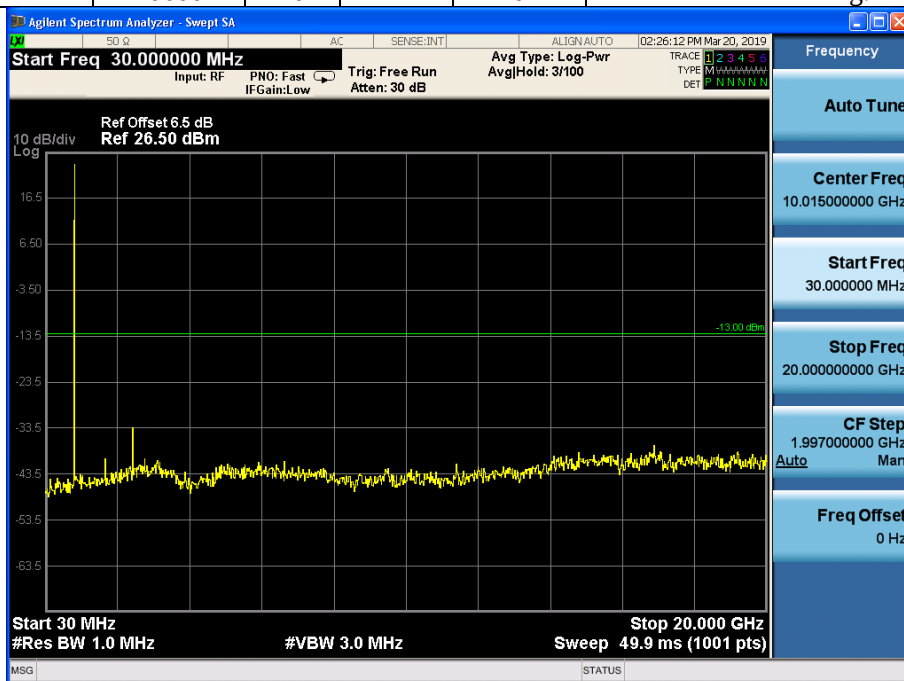


Fig.1

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
5	824.7	20407	1.4	1	0	Fig.1
				6	0	Fig.4

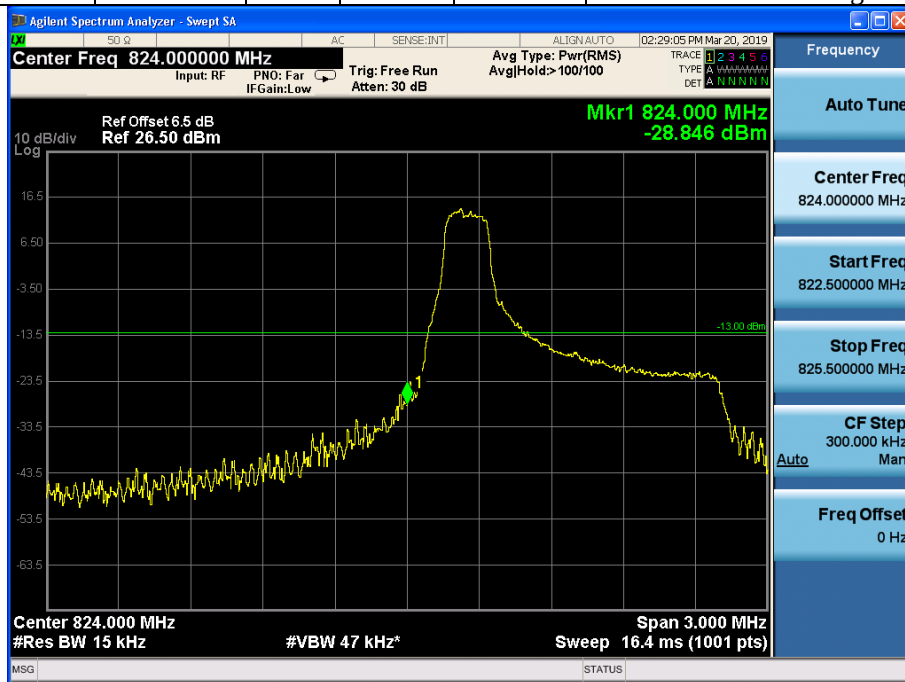


Fig.1

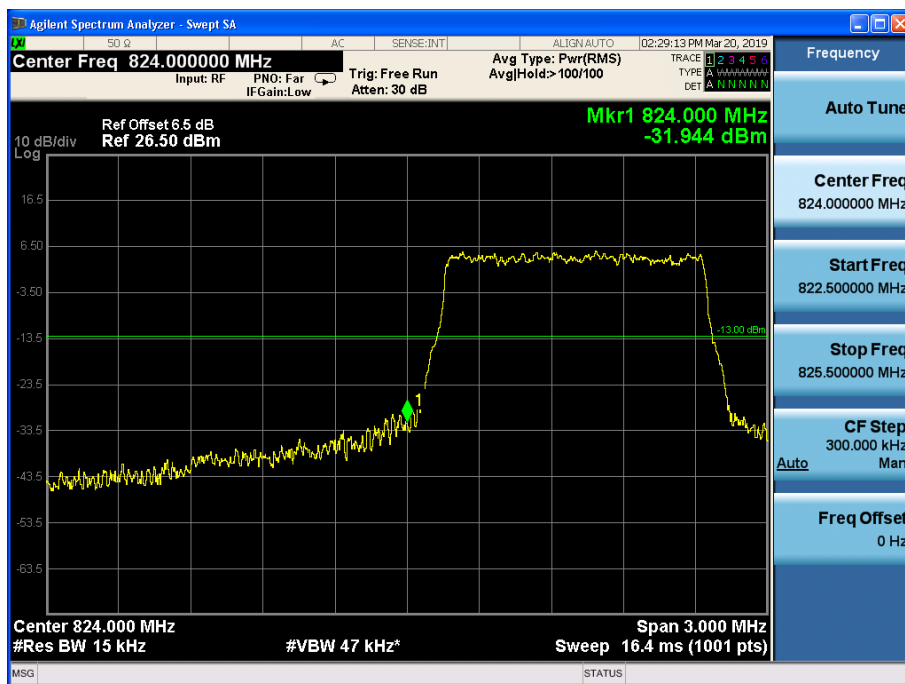


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
5	848.3	20643	1.4	1	0	Fig.1
				6	0	Fig.4

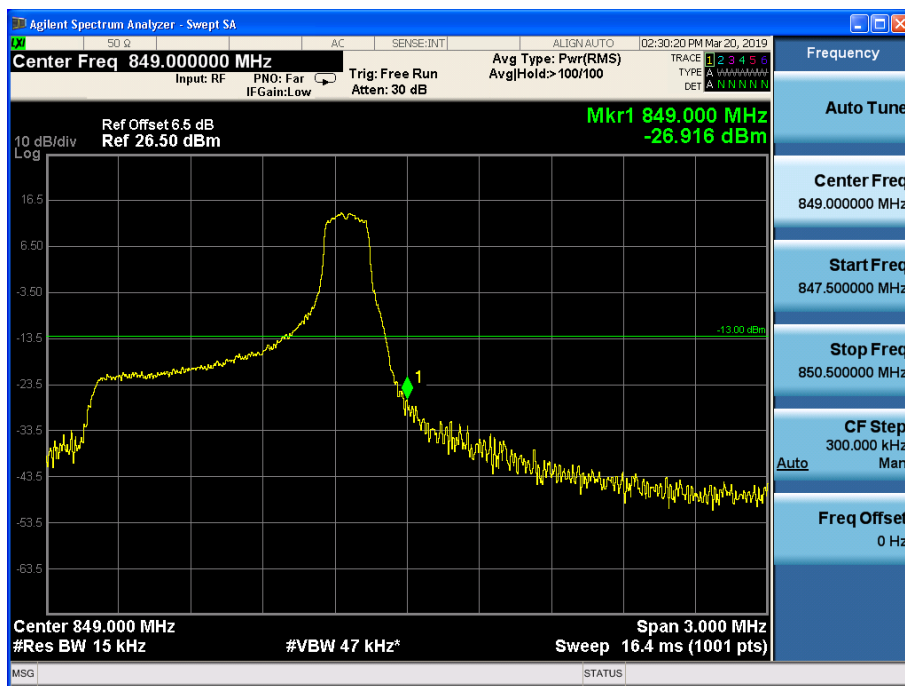


Fig.1

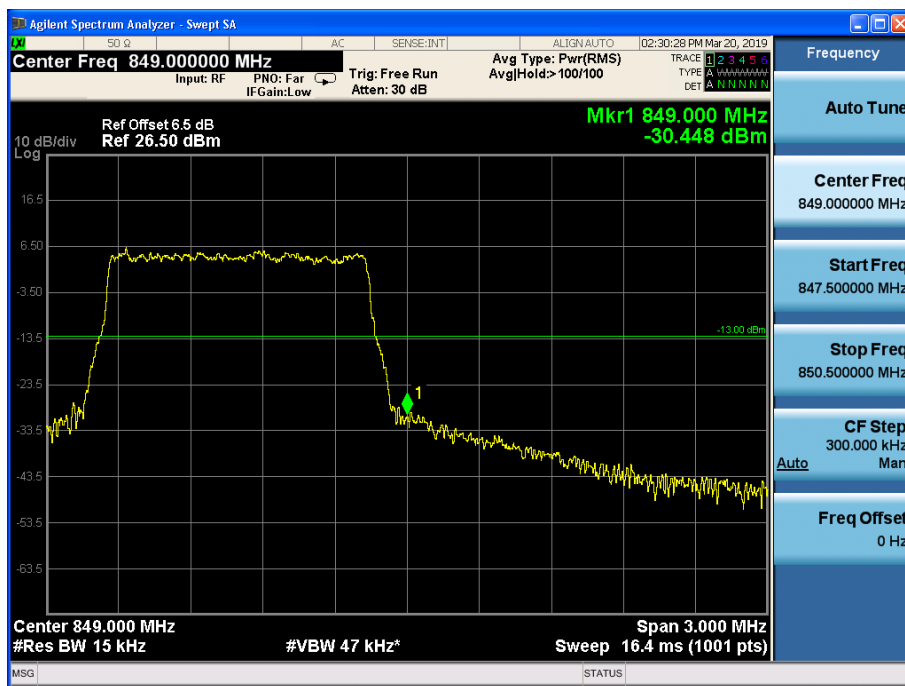


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
5	825.5	20415	3	1	0	Fig.1
				15	0	Fig.4

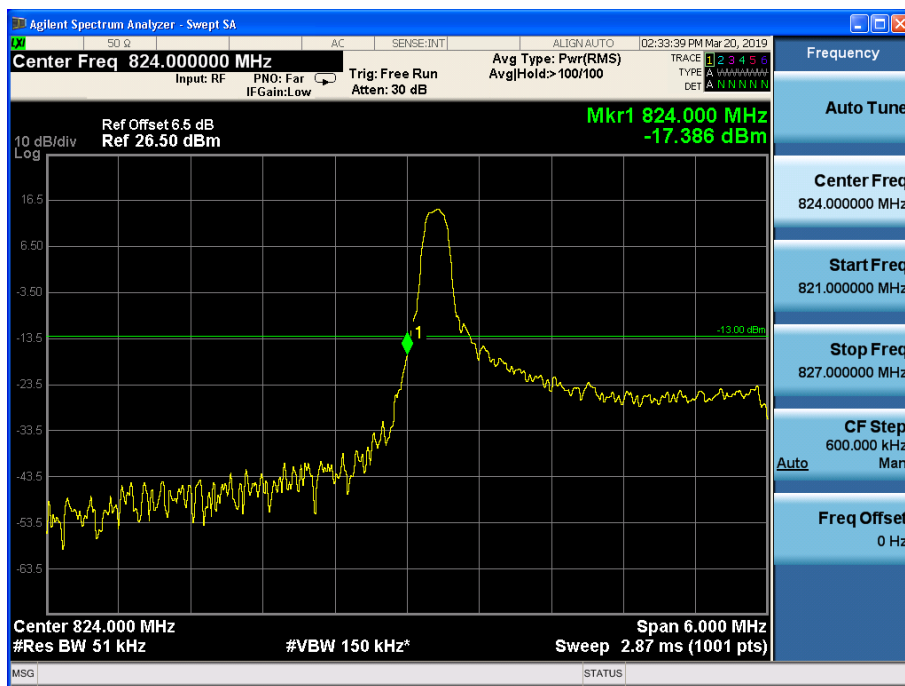


Fig.1

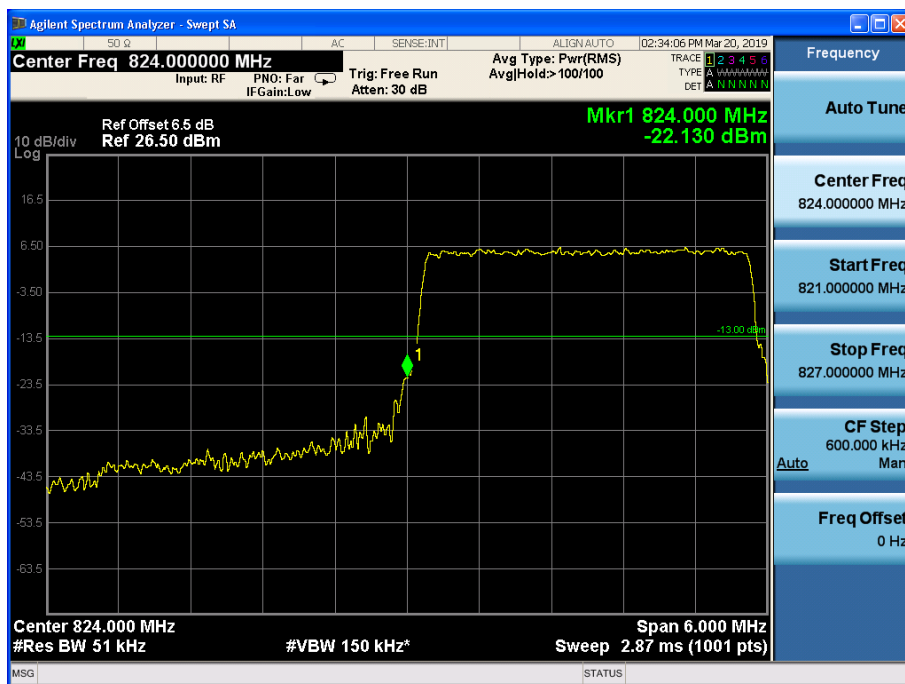


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
5	847.5	20635	3	1	0	Fig.1
				15	0	Fig.4

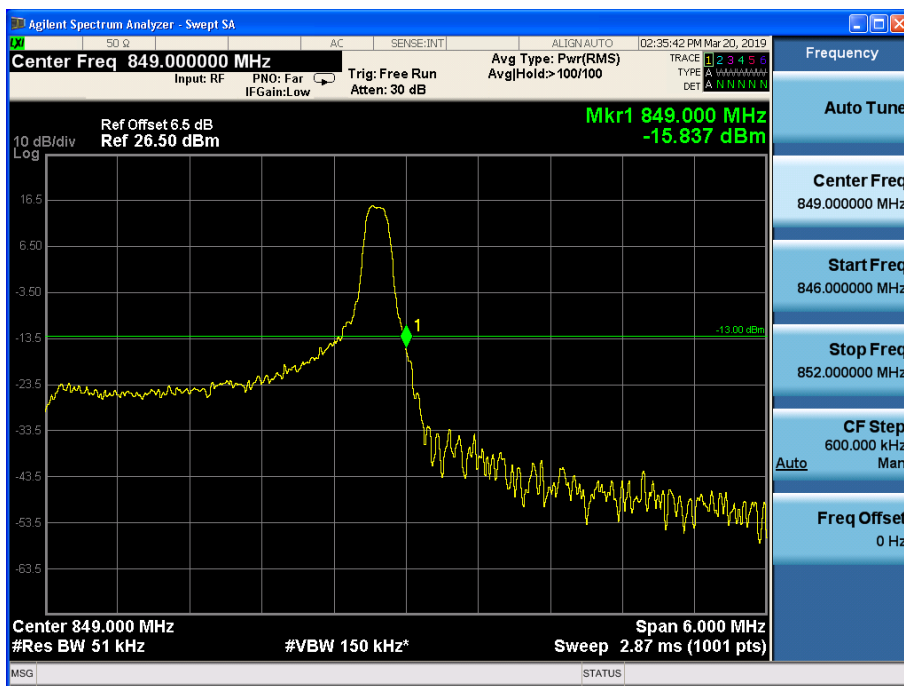


Fig.1

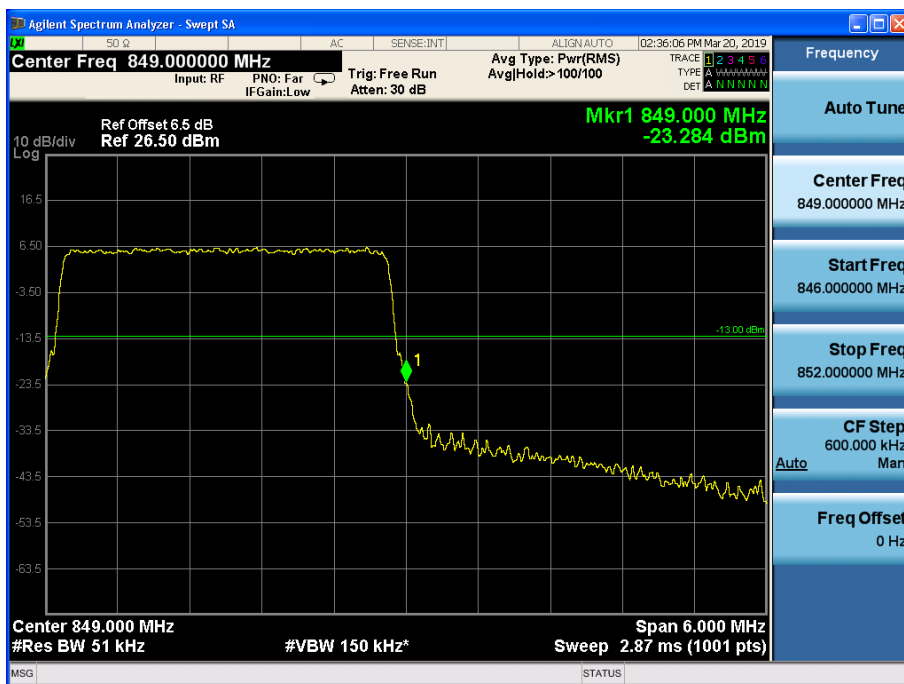


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
5	826.5	20425	5	1	0	Fig.1
				25	0	Fig.4

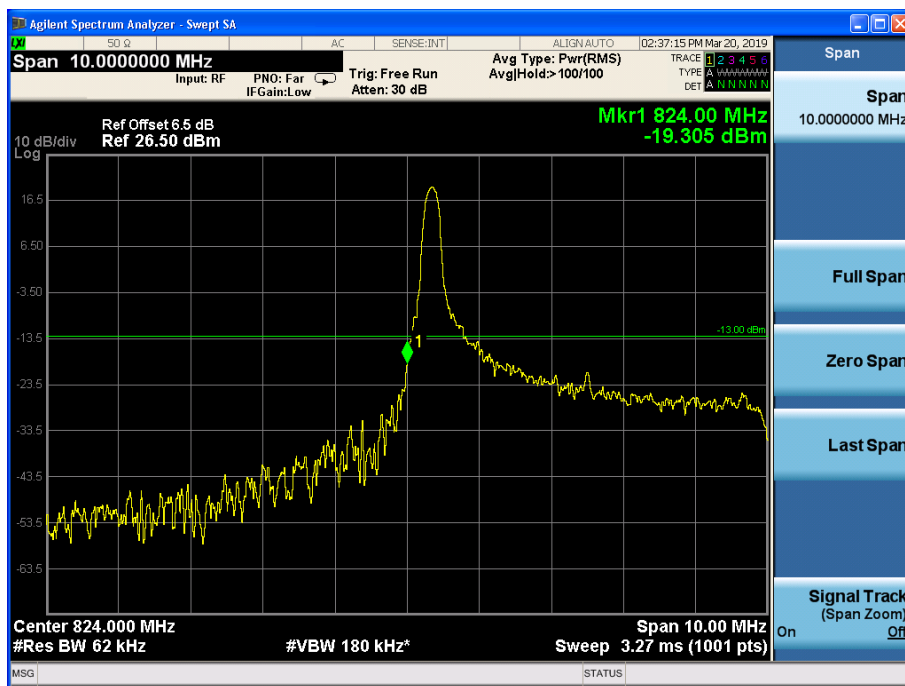


Fig.1

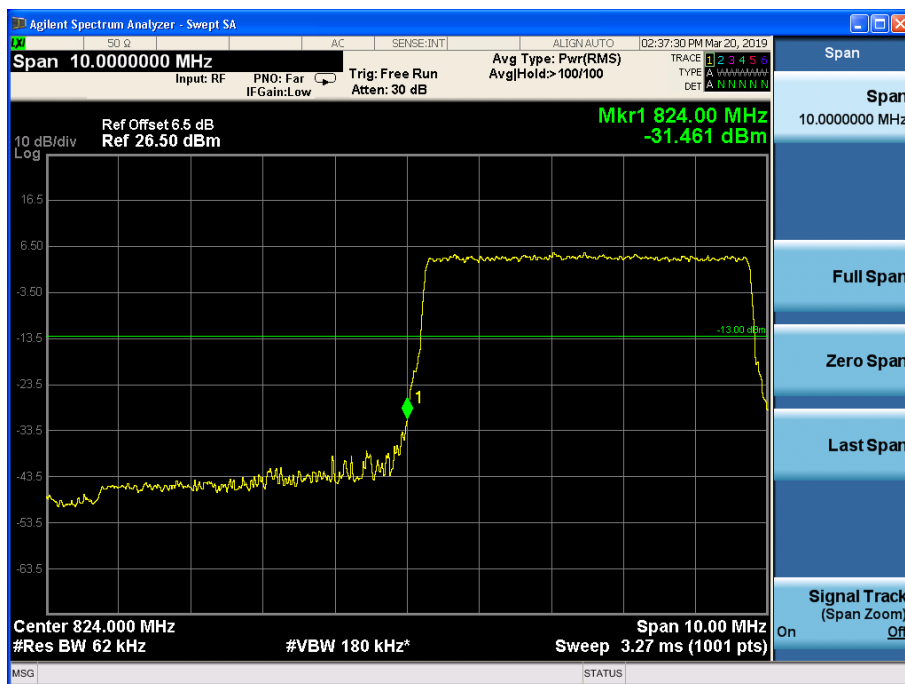


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
5	846.5	20625	5	1	0	Fig.1
				25	0	Fig.4

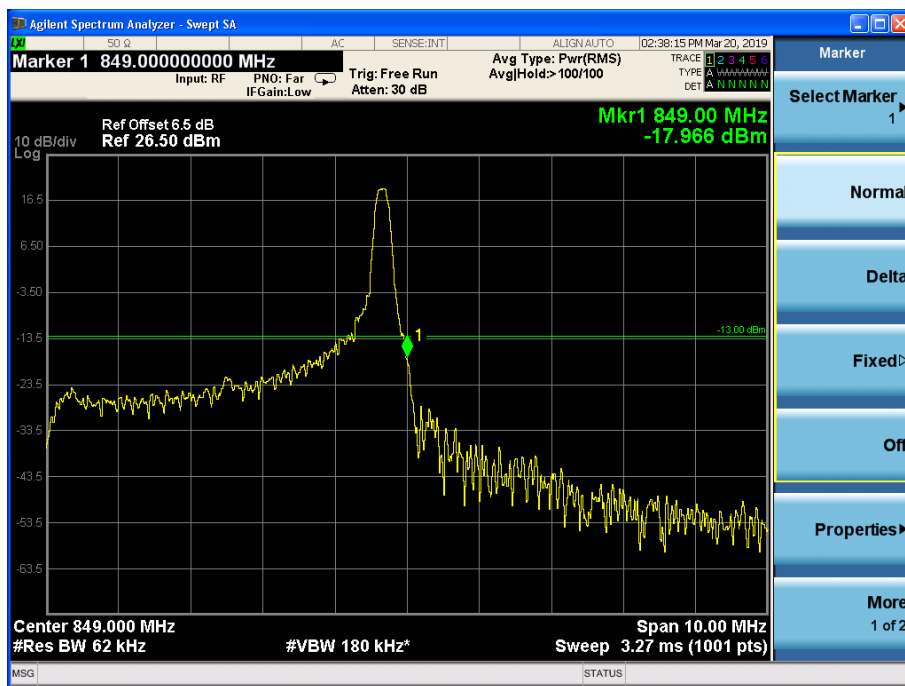


Fig.1

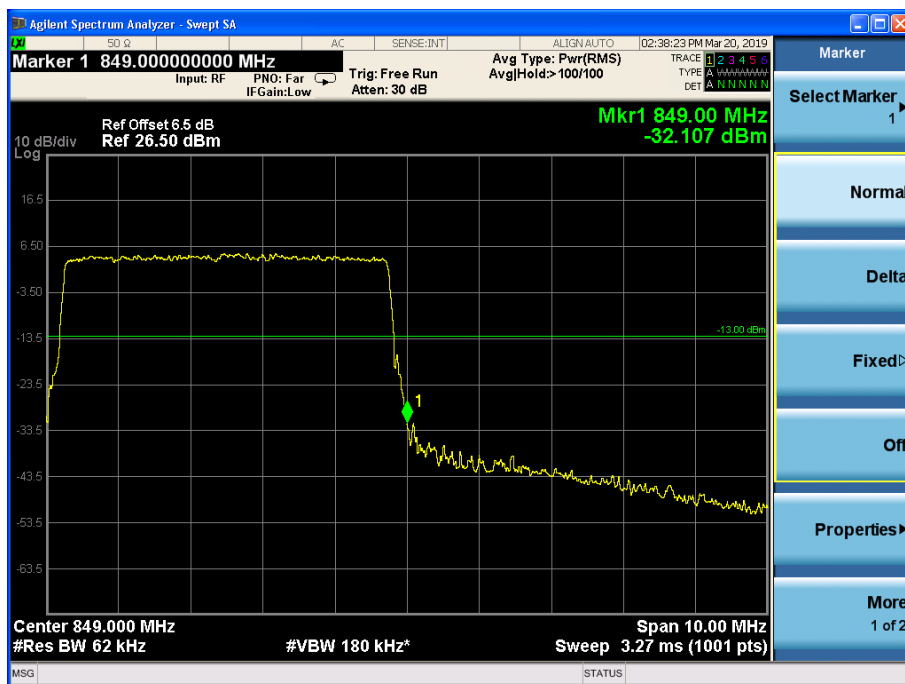


Fig.4

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
5	829	20450	10	1	0	Fig.1
				50	0	Fig.4

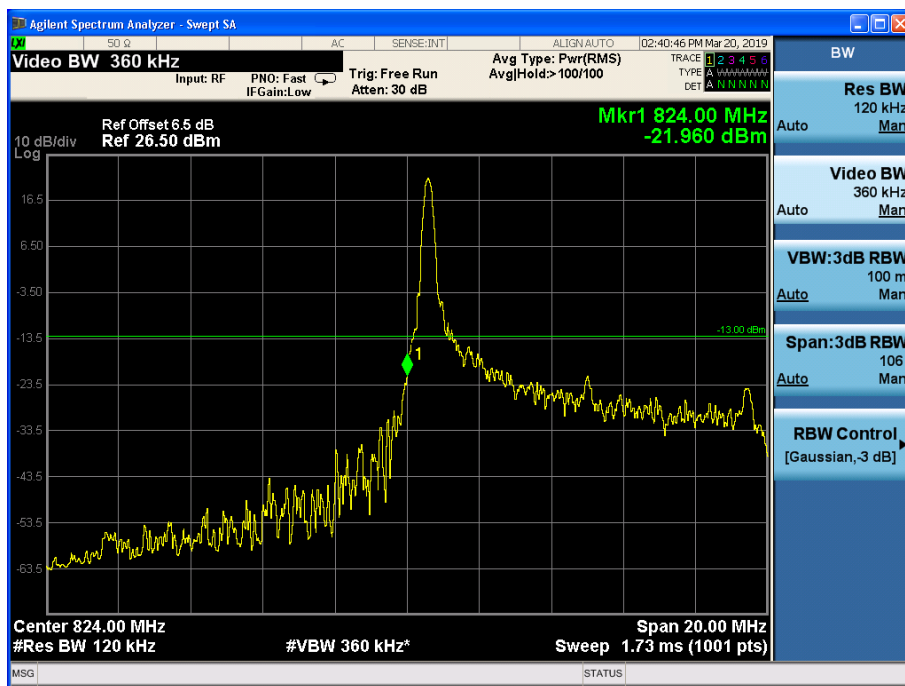


Fig.1

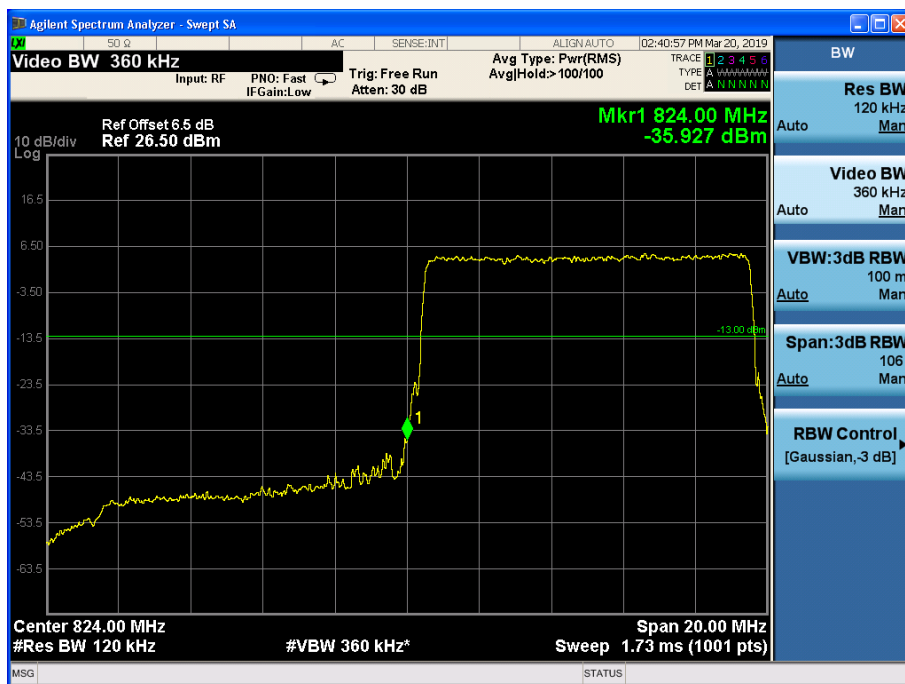


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
5	844	20600	10	1	0	Fig.1
				50	0	Fig.4

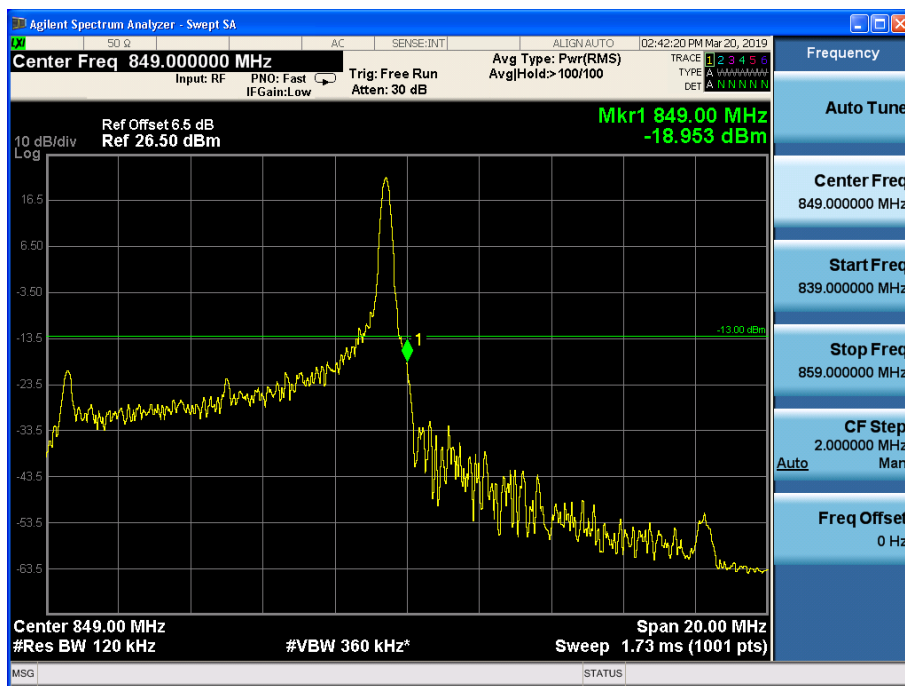


Fig.1

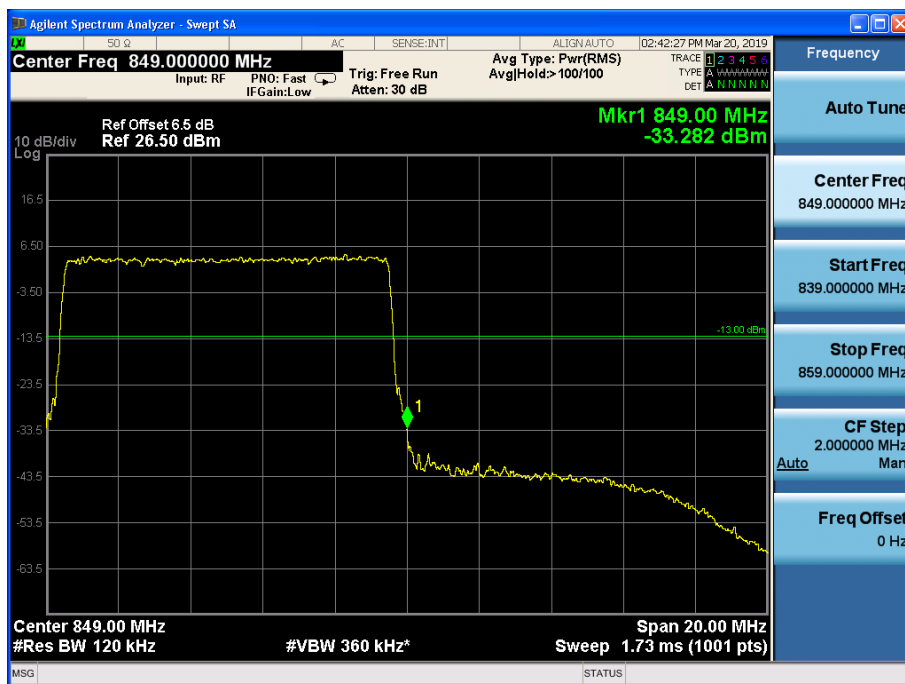


Fig.4

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band5 Low Channel			
		1.4M	3M	5M	10M
0	NV	0.004	0.001	0.006	-0.001
+10	NV	0.011	0.010	-0.002	-0.011
+20	NV	-0.006	-0.006	0.003	0.005
+30	NV	0.006	-0.007	-0.010	0.011
+40	NV	-0.008	0.015	0.007	-0.004
+50	NV	0.011	0.005	0.014	-0.009
+55	NV	-0.014	0.010	0.003	-0.005
+20	LV	0.014	-0.007	0.014	-0.005
+20	HV	-0.001	0.005	-0.006	-0.007

Temperature(°C)	Voltage	Test Result (ppm) Band5 High Channel			
		1.4M	3M	5M	10M
0	NV	-0.013	-0.006	0.010	-0.008
+10	NV	0.008	0.001	0.007	0.006
+20	NV	-0.008	0.005	-0.002	-0.006
+30	NV	0.012	-0.002	0.012	0.000
+40	NV	0.010	0.006	0.011	0.004
+50	NV	0.018	-0.014	-0.014	-0.006
+55	NV	-0.010	0.012	0.015	-0.009
+20	LV	0.003	0.004	0.010	0.004
+20	HV	0.006	0.000	0.010	0.013

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 7

1 RF Power Output

Antenna Gain=0.12dBi

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
QPSK	2502.5	20775	5	1	0	23.33	0.221
				1	24	23.33	0.221
				12	6	22.42	0.179
				25	0	22.40	0.179
	2535	21100		1	0	23.34	0.222
				1	24	23.34	0.222
				12	6	22.51	0.183
				25	0	22.44	0.180
	2567.5	21425		1	0	23.33	0.221
				1	24	23.33	0.221
				12	6	22.47	0.182
				25	0	22.40	0.179
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
16QAM	2502.5	20775	5	1	0	22.91	0.201
				1	24	22.83	0.197
				12	6	21.44	0.143
				25	0	21.43	0.143
	2535	21100		1	0	22.81	0.196
				1	24	22.71	0.192
				12	6	21.58	0.148
				25	0	21.52	0.146
	2567.5	21425		1	0	22.95	0.203
				1	24	22.88	0.200
				12	6	21.57	0.148
				25	0	21.51	0.146
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
64QAM	2502.5	20775	5	1	0	22.76	0.194
				1	24	22.71	0.192
				12	6	21.60	0.149
				25	0	21.56	0.147
	2535	21100		1	0	22.79	0.195
				1	24	22.71	0.192
				12	6	21.64	0.150
				25	0	21.59	0.148
	2567.5	21425		1	0	22.72	0.192
				1	24	22.66	0.190
				12	6	21.59	0.148
				25	0	21.52	0.146

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
QPSK	2505	20800	10	1	0	23.46	0.228
				1	49	23.46	0.228
				24	12	22.55	0.185
				50	0	22.53	0.184
	2535	21100		1	0	23.44	0.227
				1	49	23.44	0.227
				24	12	22.61	0.187
				50	0	22.54	0.185
	2565	21400		1	0	23.42	0.226
				1	49	23.42	0.226
				24	12	22.56	0.185
				50	0	22.49	0.182
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
16QAM	2505	20800	10	1	0	23.04	0.207
				1	49	22.96	0.203
				24	12	21.57	0.148
				50	0	21.56	0.147
	2535	21100		1	0	22.91	0.201
				1	49	22.81	0.196
				24	12	21.68	0.151
				50	0	21.62	0.149
	2565	21400		1	0	23.04	0.207
				1	49	22.97	0.204
				24	12	21.66	0.151
				50	0	21.60	0.149
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
64QAM	2505	20800	10	1	0	22.89	0.200
				1	49	22.84	0.198
				24	12	21.73	0.153
				50	0	21.69	0.152
	2535	21100		1	0	22.89	0.200
				1	49	22.81	0.196
				24	12	21.74	0.153
				50	0	21.69	0.152
	2565	21400		1	0	22.81	0.196
				1	49	22.75	0.194
				24	12	21.68	0.151
				50	0	21.61	0.149

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
QPSK	2507.5	20825	15	1	0	23.54	0.232
				1	74	23.54	0.232
				40	18	22.63	0.188
				75	0	22.61	0.187
	2535	21100		1	0	23.49	0.230
				1	74	23.49	0.230
				40	18	22.66	0.190
				75	0	22.59	0.187
	2562.5	21375		1	0	23.44	0.227
				1	74	23.44	0.227
				40	18	22.58	0.186
				75	0	22.51	0.183
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
16QAM	2507.5	20825	15	1	0	23.12	0.211
				1	74	23.04	0.207
				40	18	21.65	0.150
				75	0	21.64	0.150
	2535	21100		1	0	22.96	0.203
				1	74	22.86	0.199
				40	18	21.73	0.153
				75	0	21.67	0.151
	2562.5	21375		1	0	23.06	0.208
				1	74	22.99	0.205
				40	18	21.68	0.151
				75	0	21.62	0.149
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
64QAM	2507.5	20825	15	1	0	22.97	0.204
				1	74	22.92	0.201
				40	18	21.81	0.156
				75	0	21.77	0.155
	2535	21100		1	0	22.94	0.202
				1	74	22.86	0.199
				40	18	21.79	0.155
				75	0	21.74	0.153
	2562.5	21375		1	0	22.83	0.197
				1	74	22.77	0.195
				40	18	21.70	0.152
				75	0	21.63	0.150

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
QPSK	2510	20850	20	1	0	23.77	0.245
				1	99	23.77	0.245
				50	25	22.74	0.193
				100	0	22.72	0.192
	2535	21100		1	0	23.74	0.243
				1	99	23.74	0.243
				50	25	22.84	0.198
				100	0	22.77	0.195
	2560	21350		1	0	23.78	0.245
				1	99	23.78	0.245
				50	25	22.83	0.197
				100	0	22.76	0.194
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
16QAM	2510	20850	20	1	0	23.23	0.216
				1	99	23.15	0.212
				50	25	21.76	0.154
				100	0	21.75	0.154
	2535	21100		1	0	23.14	0.212
				1	99	23.04	0.207
				50	25	21.91	0.160
				100	0	21.85	0.157
	2560	21350		1	0	23.31	0.220
				1	99	23.24	0.217
				50	25	21.93	0.160
				100	0	21.87	0.158
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	EIRP (W)
64QAM	2510	20850	20	1	0	23.08	0.209
				1	99	23.03	0.207
				50	25	21.92	0.160
				100	0	21.88	0.158
	2535	21100		1	0	23.12	0.211
				1	99	23.04	0.207
				50	25	21.97	0.162
				100	0	21.92	0.160
	2560	21350		1	0	23.08	0.209
				1	99	23.02	0.206
				50	25	21.95	0.161
				100	0	21.88	0.158

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2502.5	20775	5	25	0	4.5272	Fig.1	4.5160	Fig.2	4.5205	Fig.3
7	2535	21100	5	25	0	4.5242	Fig.4	4.5185	Fig.5	4.5162	Fig.6
7	2567.5	21425	5	25	0	4.5197	Fig.7	4.5124	Fig.8	4.5178	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2502.5	20775	5	25	0	5.263	Fig.1	5.118	Fig.2	5.174	Fig.3
7	2535	21100	5	25	0	5.263	Fig.4	5.342	Fig.5	5.128	Fig.6
7	2567.5	21425	5	25	0	5.244	Fig.7	5.126	Fig.8	5.181	Fig.9

Fig.1



Fig.2



Fig.3

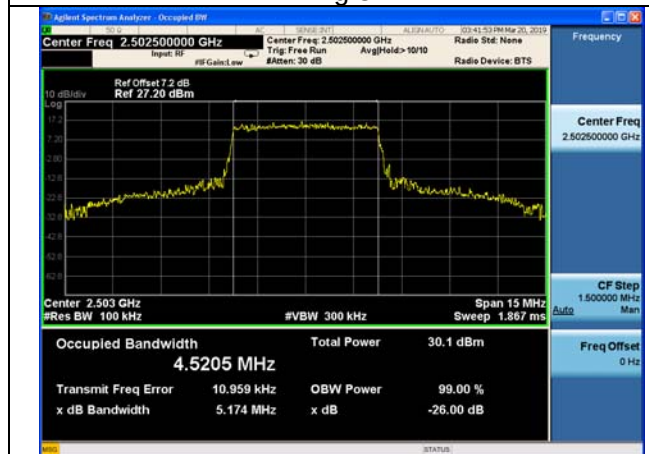


Fig.4

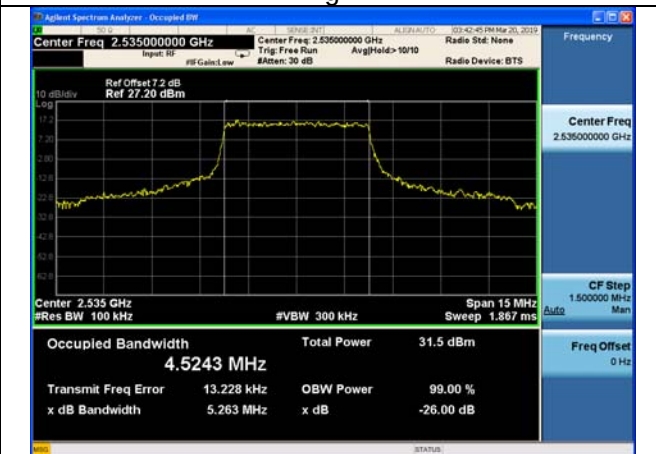


Fig.5

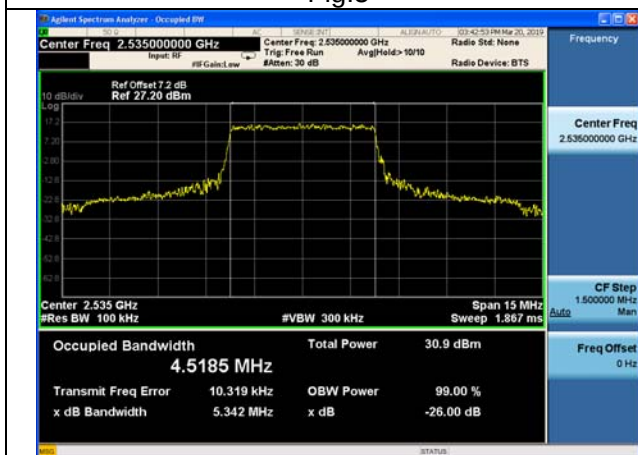


Fig.6

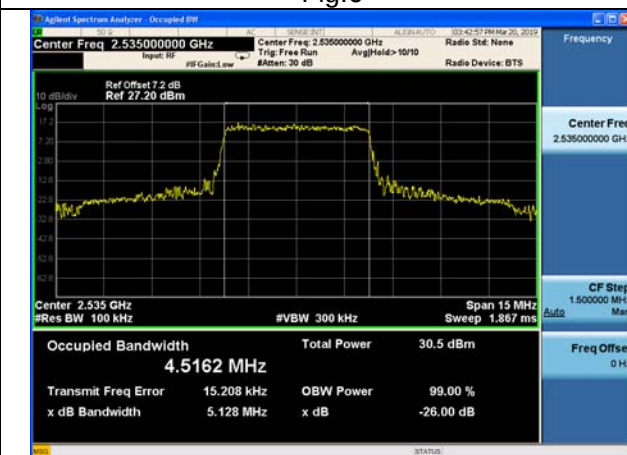


Fig.7

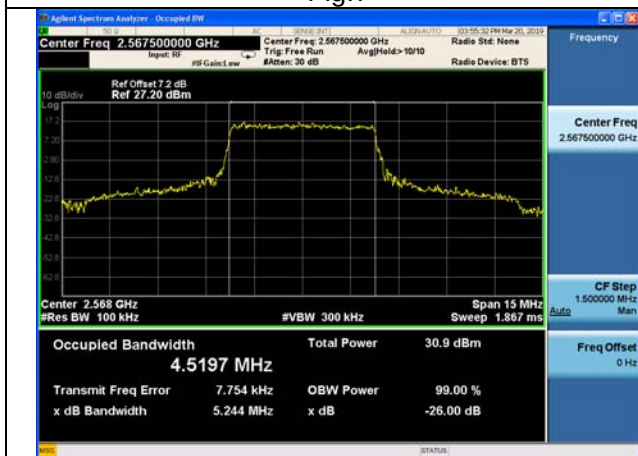


Fig.8

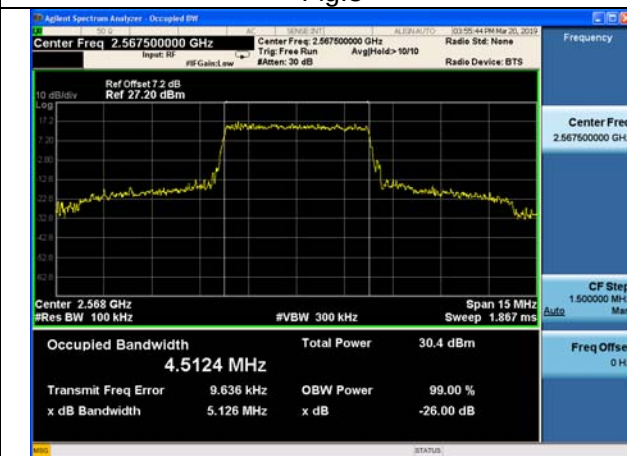


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2505	20800	10	50	0	9.0935	Fig.1	9.0613	Fig.2	9.0853	Fig.3
7	2535	21100	10	50	0	9.1000	Fig.4	9.0956	Fig.5	9.0609	Fig.6
7	2565	21400	10	50	0	9.1184	Fig.7	9.0959	Fig.8	9.0980	Fig.9

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2505	20800	10	50	0	10.50	Fig.1	10.30	Fig.2	10.69	Fig.3
7	2535	21100	10	50	0	10.68	Fig.4	10.50	Fig.5	10.70	Fig.6
7	2565	21400	10	50	0	10.77	Fig.7	10.81	Fig.8	10.42	Fig.9

Fig.1

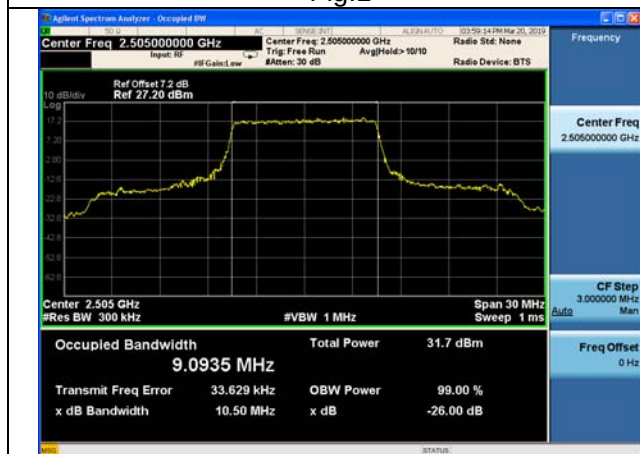


Fig.2



Fig.3

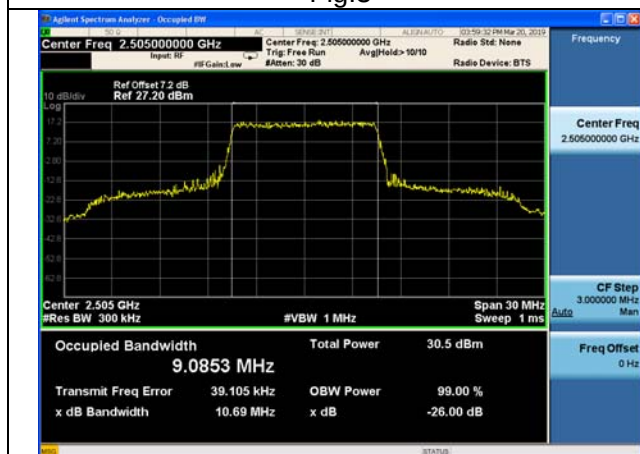


Fig.4



Fig.5

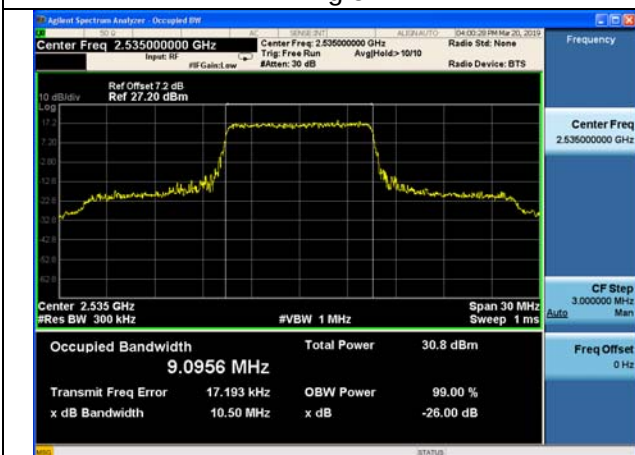


Fig.6

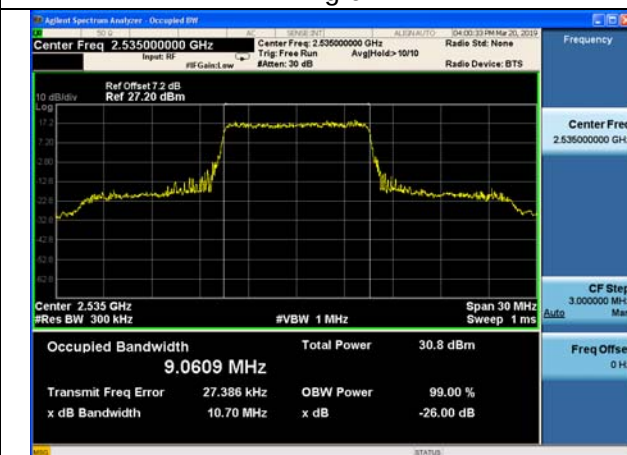


Fig.7

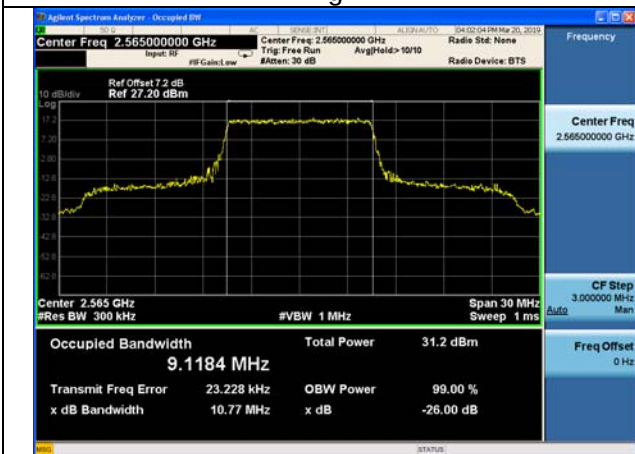


Fig.8



Fig.9

