

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1710.7	19957	1.4	1	0	23.21
				1	5	23.21
				3	2	22.39
				6	0	22.30
	1732.5	20175		1	0	23.18
				1	5	23.18
				3	2	22.36
				6	0	22.25
	1754.3	20393		1	0	23.16
				1	5	23.16
				3	2	22.31
				6	0	22.22
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1710.7	19957	1.4	1	0	22.52
				1	5	22.52
				3	2	21.45
				6	0	21.37
	1732.5	20175		1	0	22.50
				1	5	22.50
				3	2	21.42
				6	0	21.33
	1754.3	20393		1	0	22.47
				1	5	22.47
				3	2	21.40
				6	0	21.29
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	22.23
				1	5	22.23
				3	2	21.39
				6	0	21.35
	1732.5	20175		1	0	22.22
				1	5	22.22
				3	2	21.37
				6	0	21.32
	1754.3	20393		1	0	22.20
				1	5	22.20
				3	2	21.36
				6	0	21.29

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.19
				1	14	23.19
				8	4	22.37
				15	0	22.28
	1732.5	20175		1	0	23.16
				1	14	23.16
				8	4	22.34
				15	0	22.23
	1753.5	20385		1	0	23.14
				1	14	23.14
				8	4	22.29
				15	0	22.20
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1711.5	19965	3	1	0	22.50
				1	14	22.50
				8	4	21.42
				15	0	21.34
	1732.5	20175		1	0	22.45
				1	14	22.45
				8	4	21.37
				15	0	21.28
	1753.5	20385		1	0	22.42
				1	14	22.42
				8	4	21.35
				15	0	21.24
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	22.18
				1	14	22.18
				8	4	21.33
				15	0	21.29
	1732.5	20175		1	0	22.16
				1	14	22.16
				8	4	21.31
				15	0	21.26
	1753.5	20385		1	0	22.14
				1	14	22.14
				8	4	21.30
				15	0	21.23

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	23.17
				1	24	23.17
				12	6	22.35
				25	0	22.26
	1732.5	20175		1	0	23.14
				1	24	23.14
				12	6	22.32
				25	0	22.21
	1752.5	20375		1	0	23.12
				1	24	23.12
				12	6	22.29
				25	0	22.20
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1712.5	19975	5	1	0	22.50
				1	24	22.50
				12	6	21.42
				25	0	21.34
	1732.5	20175		1	0	22.46
				1	24	22.46
				12	6	21.38
				25	0	21.29
	1752.5	20375		1	0	22.43
				1	24	22.43
				12	6	21.36
				25	0	21.25
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	22.19
				1	24	22.19
				12	6	21.34
				25	0	21.30
	1732.5	20175		1	0	22.17
				1	24	22.15
				12	6	21.30
				25	0	21.25
	1752.5	20375		1	0	22.13
				1	24	22.13
				12	6	21.29
				25	0	21.22

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	23.21
				1	49	23.21
				24	12	22.39
				50	0	22.29
	1732.5	20175		1	0	23.17
				1	49	23.17
				24	12	22.35
				50	0	22.24
	1750	20350		1	0	23.15
				1	49	23.15
				24	12	22.30
				50	0	22.21
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1715	20000	10	1	0	22.51
				1	49	22.51
				24	12	21.43
				50	0	21.34
	1732.5	20175		1	0	22.47
				1	49	22.47
				24	12	21.39
				50	0	21.30
	1750	20350		1	0	22.44
				1	49	22.44
				24	12	21.37
				50	0	21.26
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	22.20
				1	49	22.20
				24	12	21.35
				50	0	21.31
	1732.5	20175		1	0	22.16
				1	49	22.16
				24	12	21.31
				50	0	21.26
	1750	20350		1	0	22.14
				1	49	22.14
				24	12	21.30
				50	0	21.23

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	23.25
				1	74	23.25
				40	18	22.43
				75	0	22.34
	1732.5	20175		1	0	23.22
				1	74	23.22
				40	18	22.40
				75	0	22.29
	1747.5	20325		1	0	23.20
				1	74	23.20
				40	18	22.35
				75	0	22.26
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1717.5	20025	15	1	0	22.52
				1	74	22.52
				40	18	21.44
				75	0	21.36
	1732.5	20175		1	0	22.49
				1	74	22.49
				40	18	21.41
				75	0	21.32
	1747.5	20325		1	0	22.46
				1	74	22.46
				40	18	21.39
				75	0	21.28
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	22.22
				1	74	22.22
				40	18	21.37
				75	0	21.32
	1732.5	20175		1	0	22.19
				1	74	22.19
				40	18	21.34
				75	0	21.29
	1747.5	20325		1	0	22.17
				1	74	22.17
				40	18	21.33
				75	0	21.26

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	23.28
				1	99	23.28
				50	25	22.46
				100	0	22.37
	1732.5	20175		1	0	23.25
				1	99	23.25
				50	25	22.43
				100	0	22.32
	1745	20300		1	0	23.23
				1	99	23.23
				50	25	22.38
				100	0	22.29
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1720	20050	20	1	0	22.59
				1	99	22.59
				50	25	21.51
				100	0	21.43
	1732.5	20175		1	0	22.56
				1	99	22.56
				50	25	21.48
				100	0	21.39
	1745	20300		1	0	22.53
				1	99	22.53
				50	25	21.46
				100	0	21.35
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	22.29
				1	99	22.29
				50	25	21.44
				100	0	21.40
	1732.5	20175		1	0	22.27
				1	99	22.27
				50	25	21.42
				100	0	21.37
	1745	20300		1	0	22.25
				1	99	22.25
				50	25	21.41
				100	0	21.34

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	
4	1710.7	19957	1.4	6	0	1.0761	Fig.1	1.0766	Fig.2	1.0768	Fig.3
4	1732.5	20175	1.4	6	0	1.0752	Fig.4	1.0758	Fig.5	1.0735	Fig.6
4	1754.3	20393	1.4	6	0	1.0759	Fig.7	1.0758	Fig.8	1.0761	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	1710.7	19957	1.4	6	0	1.249	Fig.1	1.233	Fig.2	1.223	Fig.3
4	1732.5	20175	1.4	6	0	1.230	Fig.4	1.226	Fig.5	1.232	Fig.6
4	1754.3	20393	1.4	6	0	1.237	Fig.7	1.233	Fig.8	1.233	Fig.9

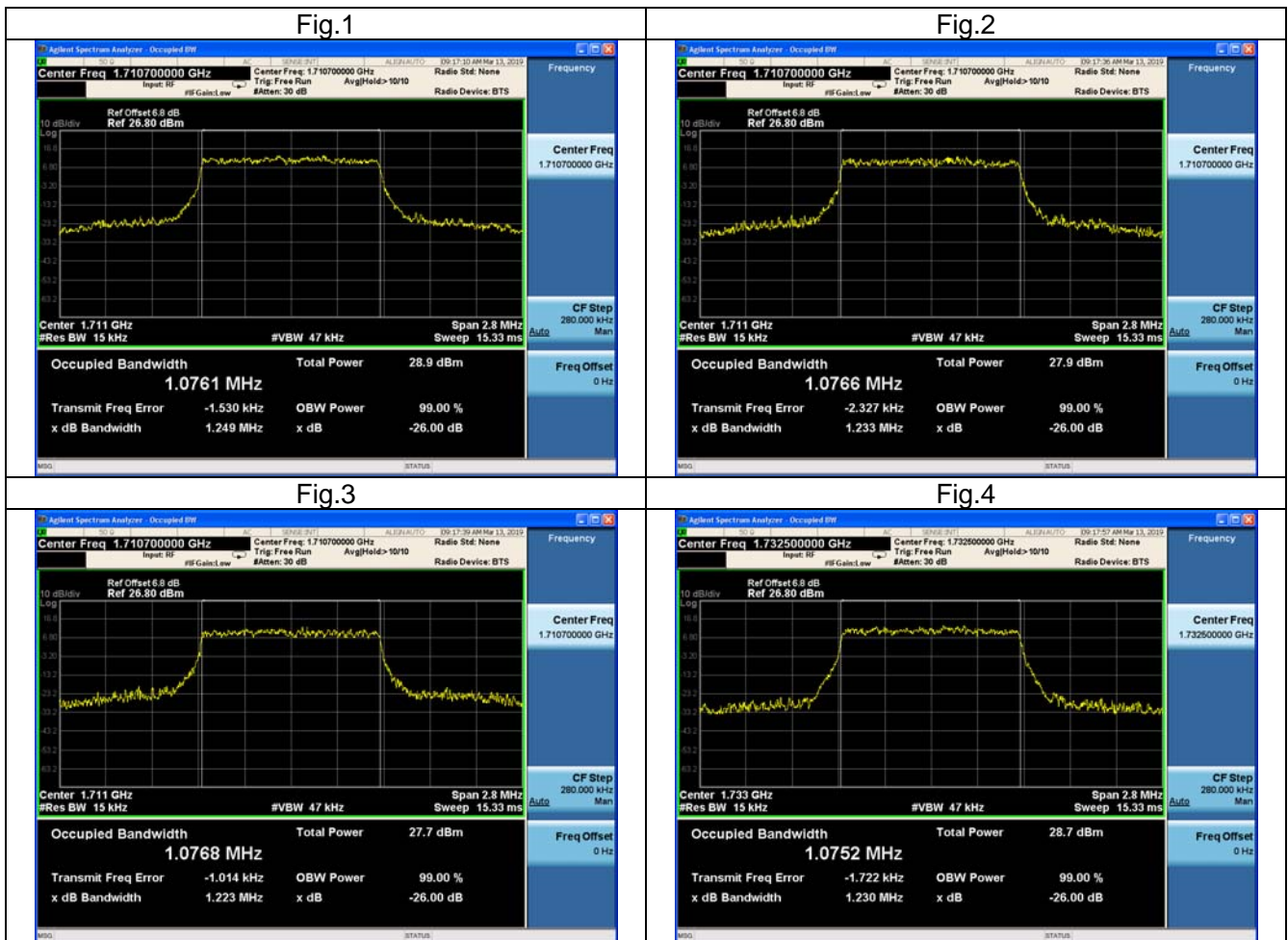


Fig.5

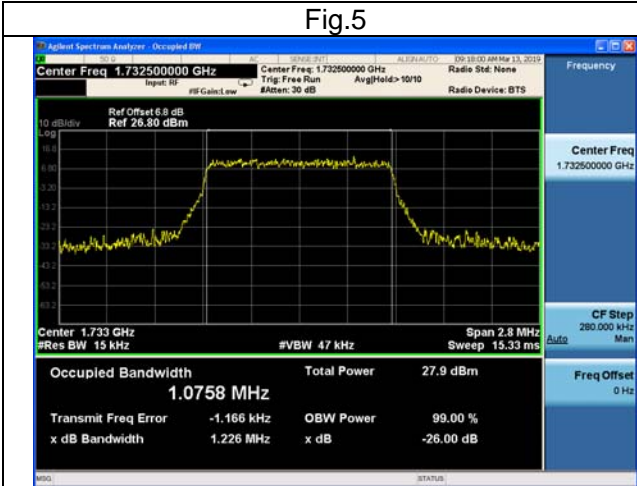


Fig.6

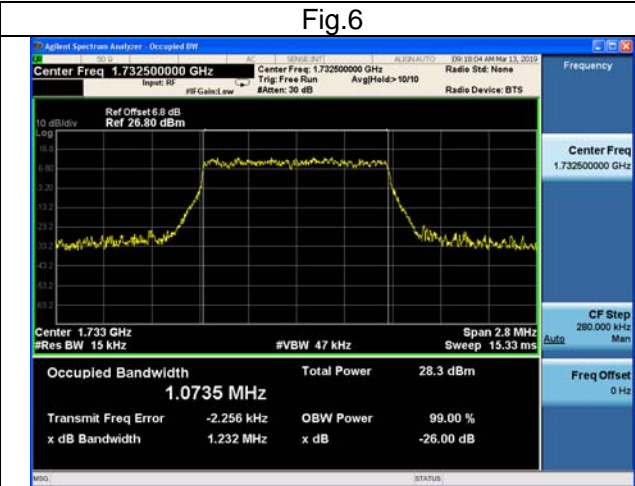


Fig.7

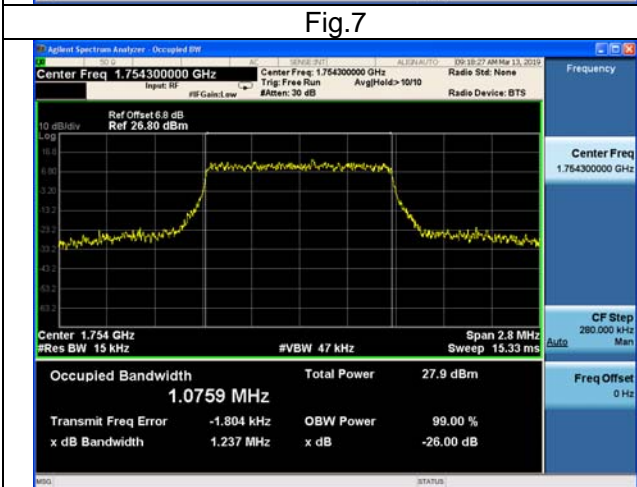


Fig.8

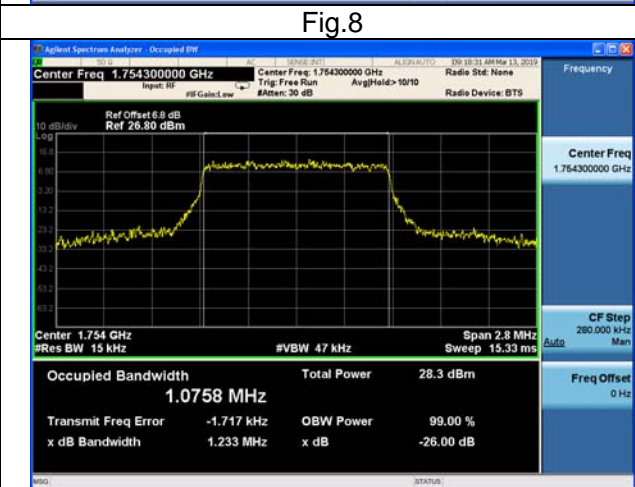
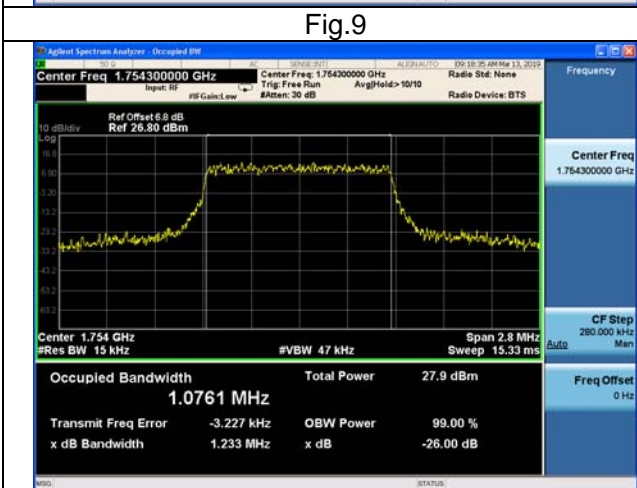


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1711.5	19965	3	15	0	2.6927	Fig.1	2.6860	Fig.2	2.6934	Fig.3
4	1732.5	20175	3	15	0	2.6954	Fig.4	2.6802	Fig.5	2.6952	Fig.6
4	1753.5	20385	3	15	0	2.6959	Fig.7	2.6904	Fig.8	2.6931	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	1711.5	19965	3	15	0	2.913	Fig.1	2.895	Fig.2	2.892	Fig.3
4	1732.5	20175	3	15	0	2.894	Fig.4	2.893	Fig.5	2.883	Fig.6
4	1753.5	20385	3	15	0	2.903	Fig.7	2.895	Fig.8	2.896	Fig.9

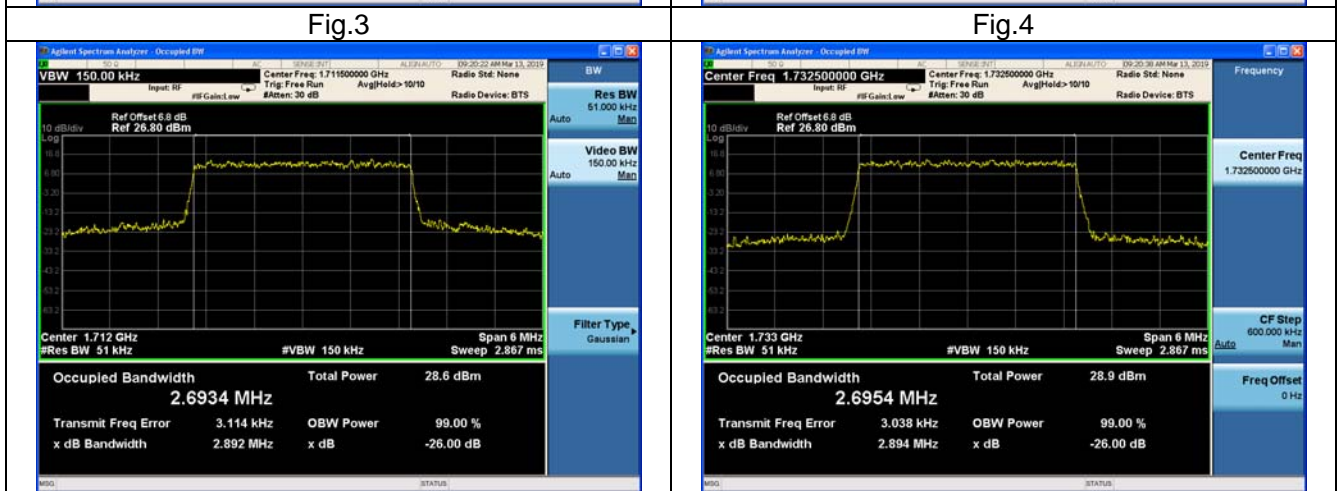
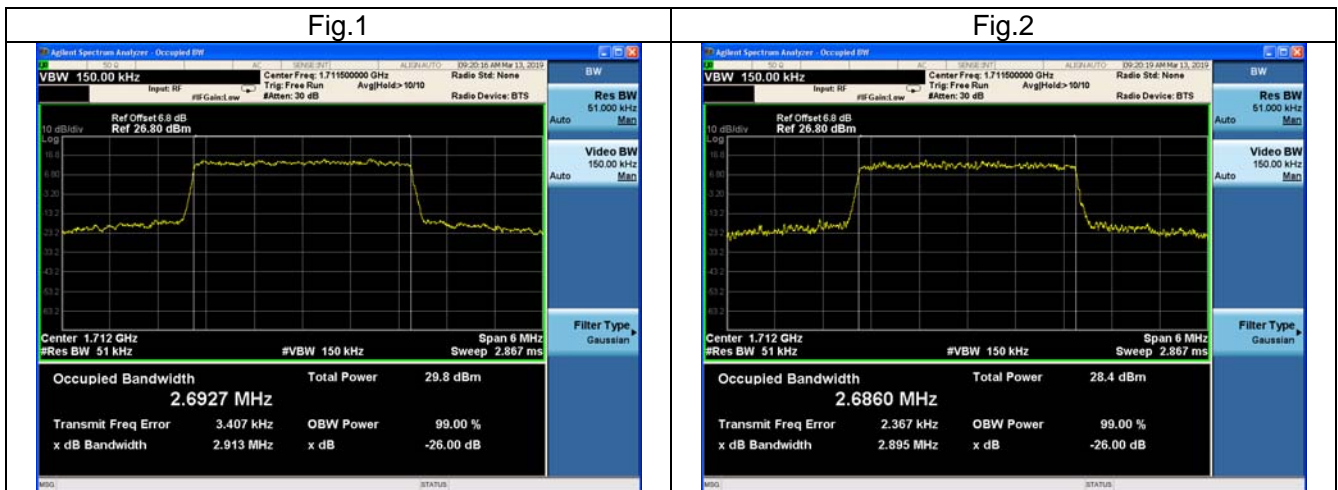


Fig.5

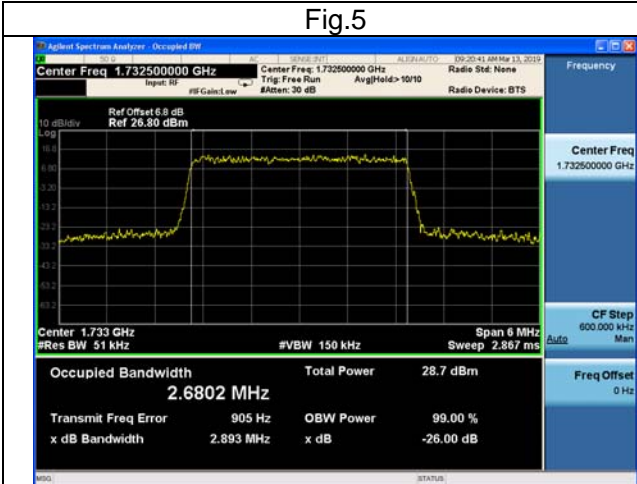


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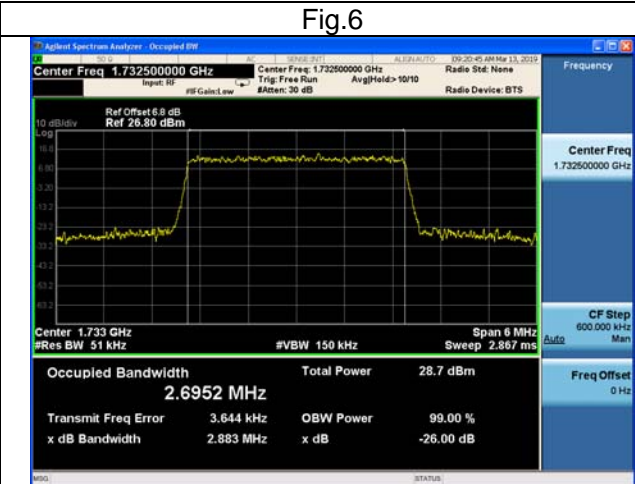


Fig.7

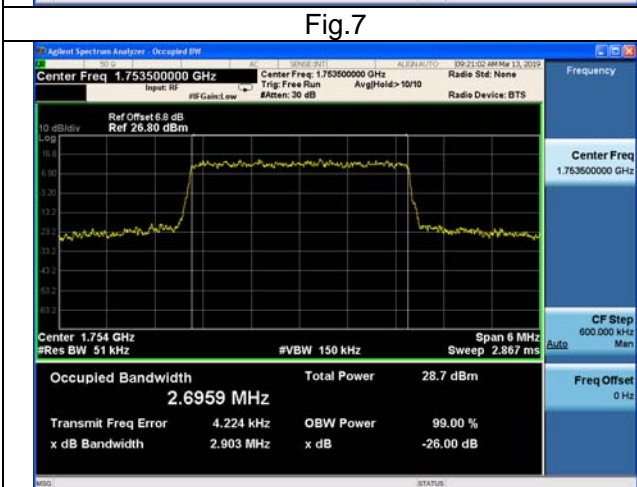


Fig.8

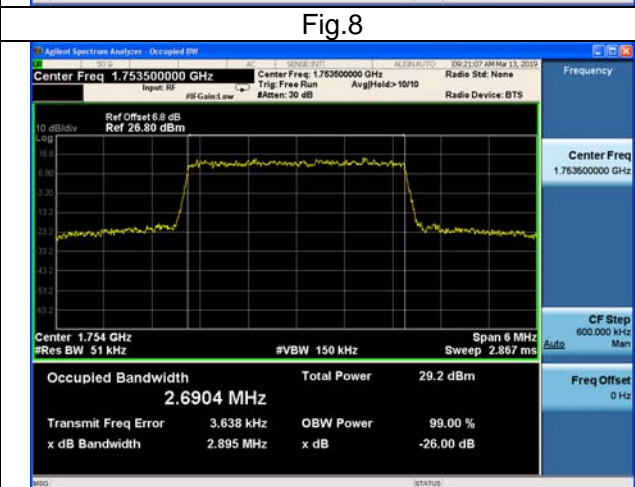
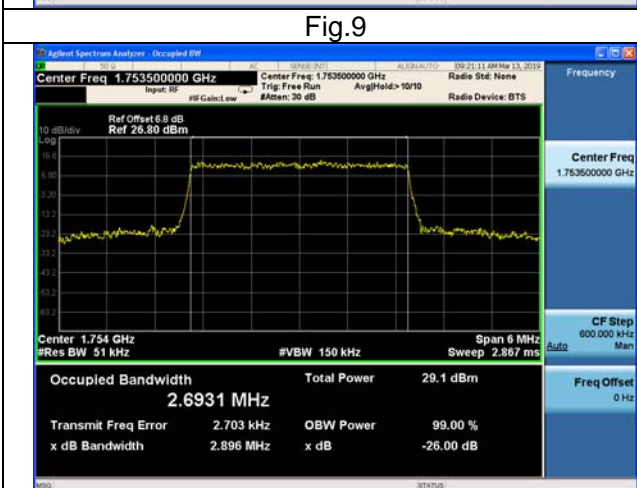


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1712.5	19975	5	25	0	4.4737	Fig.1	4.4785	Fig.2	4.4766	Fig.3
4	1732.5	20175	5	25	0	4.4803	Fig.4	4.4833	Fig.5	4.4790	Fig.6
4	1752.5	20375	5	25	0	4.4856	Fig.7	4.4782	Fig.8	4.4783	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	1712.5	19975	5	25	0	5.087	Fig.1	5.135	Fig.2	5.018	Fig.3
4	1732.5	20175	5	25	0	5.037	Fig.4	5.070	Fig.5	5.087	Fig.6
4	1752.5	20375	5	25	0	5.006	Fig.7	5.028	Fig.8	5.047	Fig.9

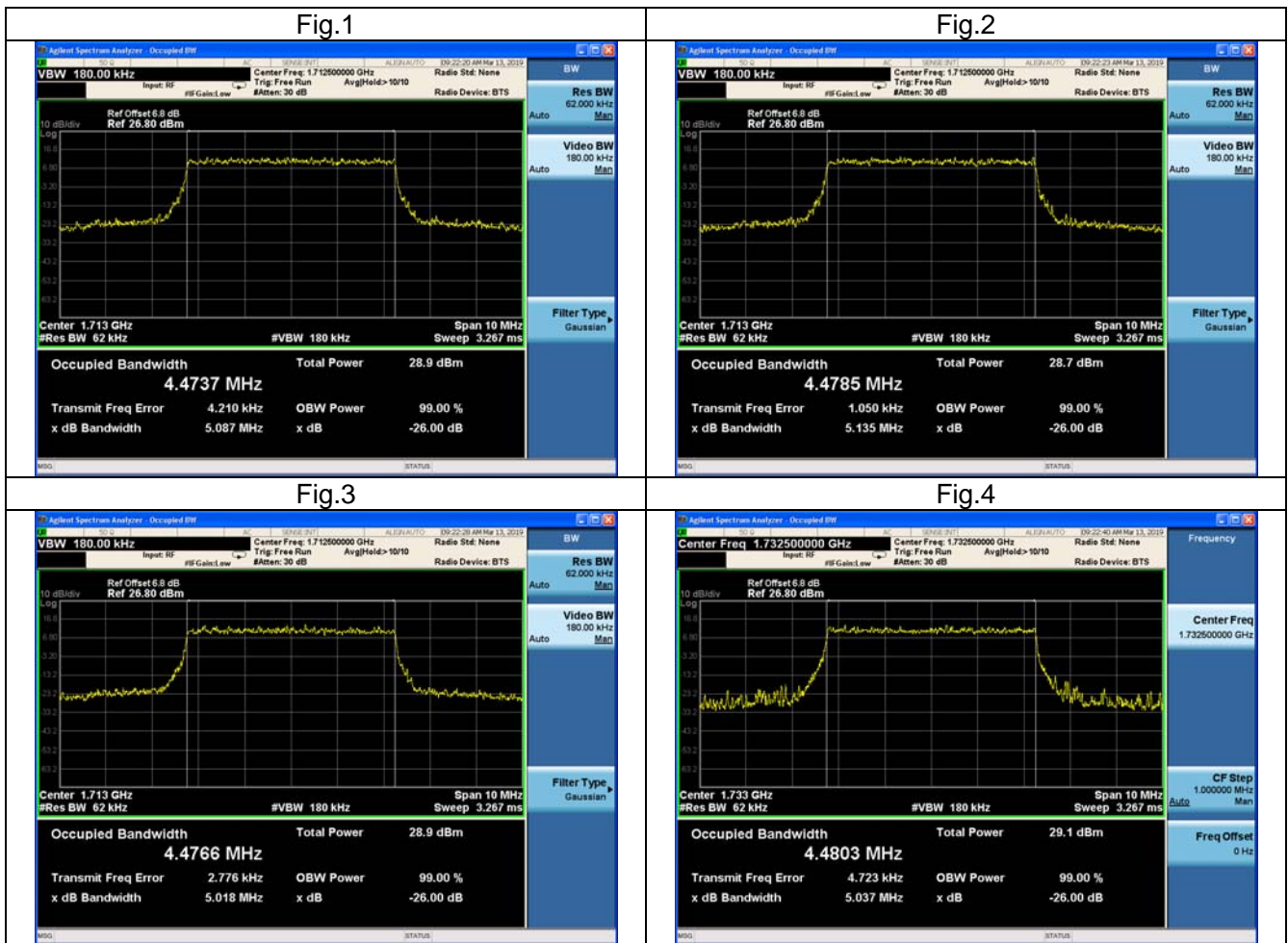


Fig.5

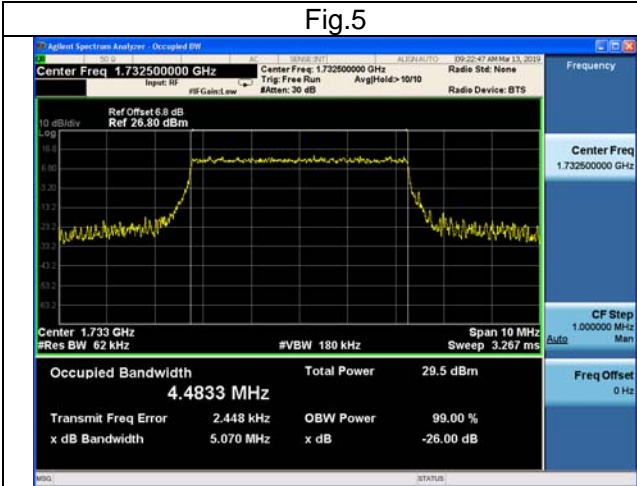


Fig.6

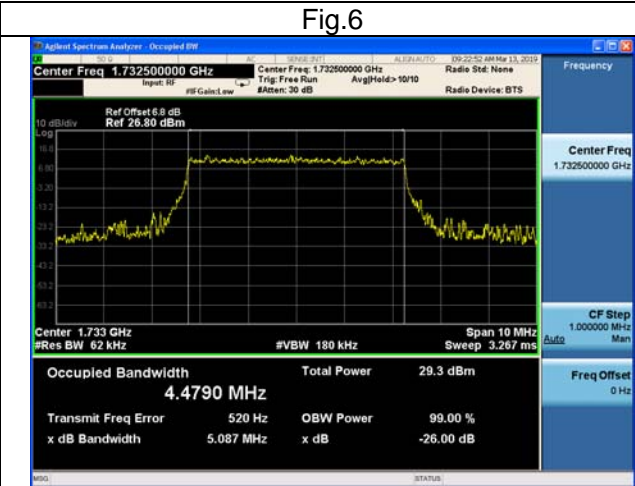


Fig.7

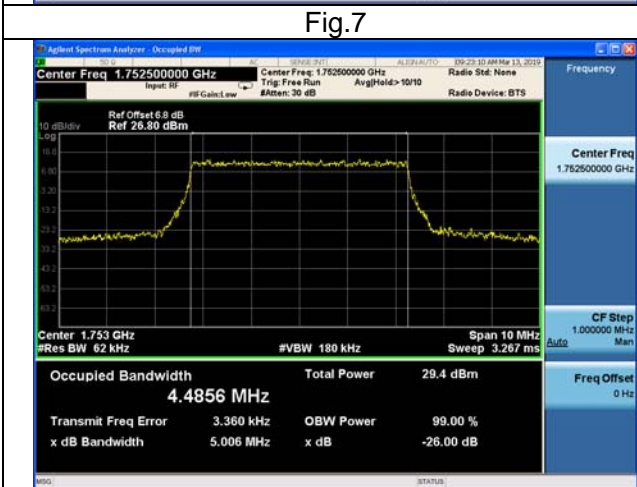


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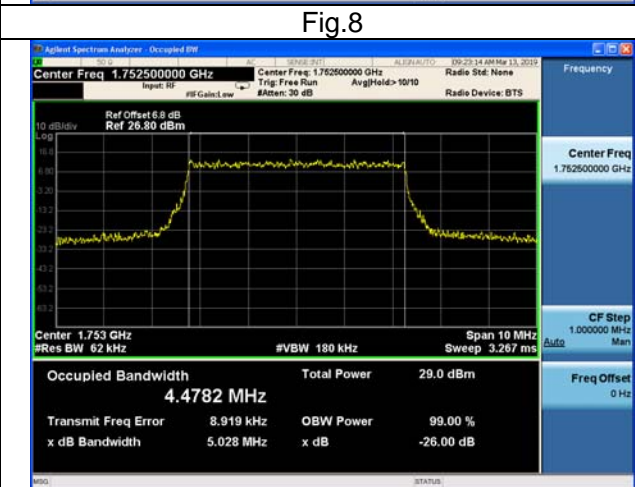
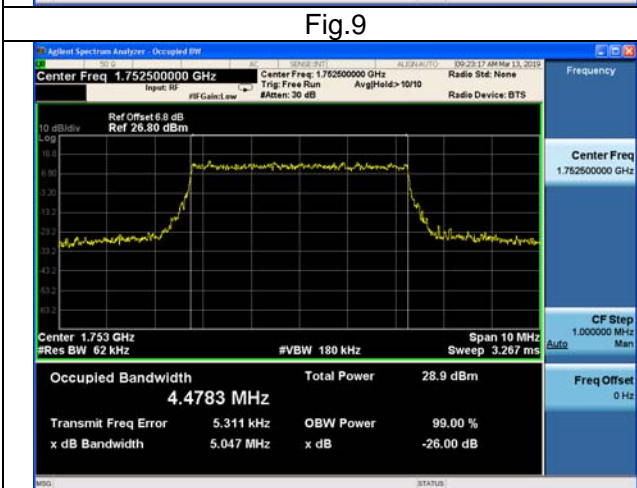


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1715	20000	10	50	0	8.9529	Fig.1	8.9379	Fig.2	8.9550	Fig.3
4	1732.5	20175	10	50	0	8.9370	Fig.4	8.9567	Fig.5	8.9457	Fig.6
4	1750	20350	10	50	0	8.9469	Fig.7	8.9325	Fig.8	8.9460	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	1715	20000	10	50	0	9.894	Fig.1	10.160	Fig.2	9.939	Fig.3
4	1732.5	20175	10	50	0	9.921	Fig.4	9.856	Fig.5	9.696	Fig.6
4	1750	20350	10	50	0	9.854	Fig.7	9.929	Fig.8	9.848	Fig.9

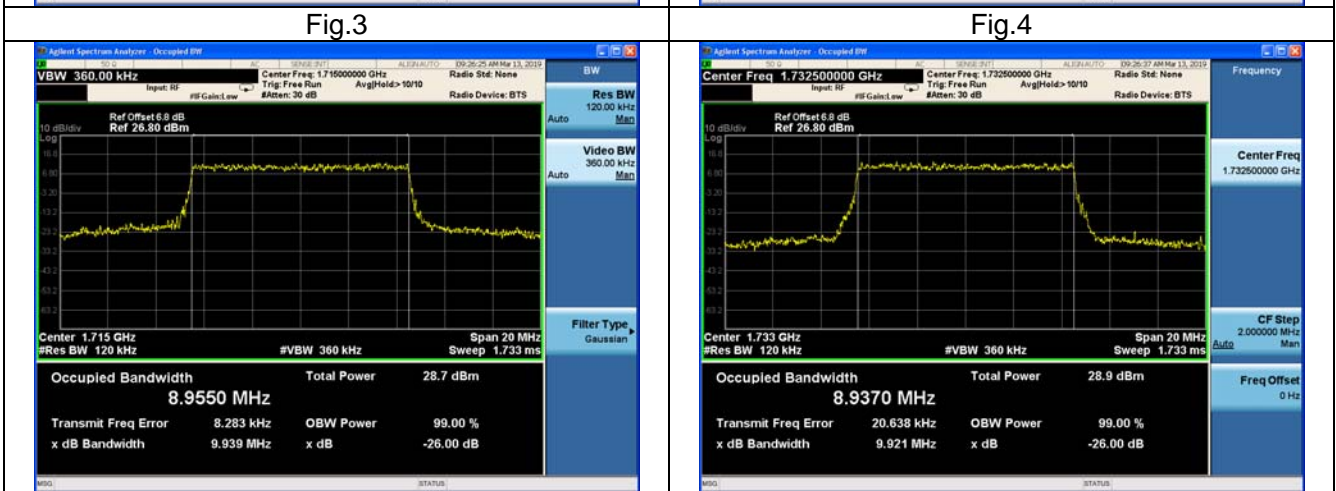
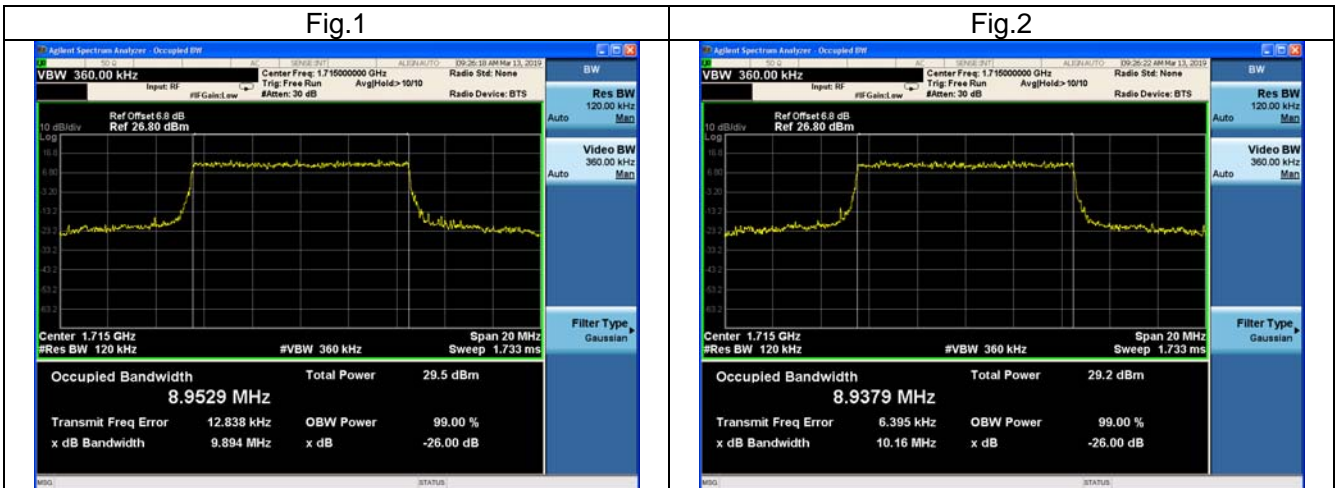


Fig.5

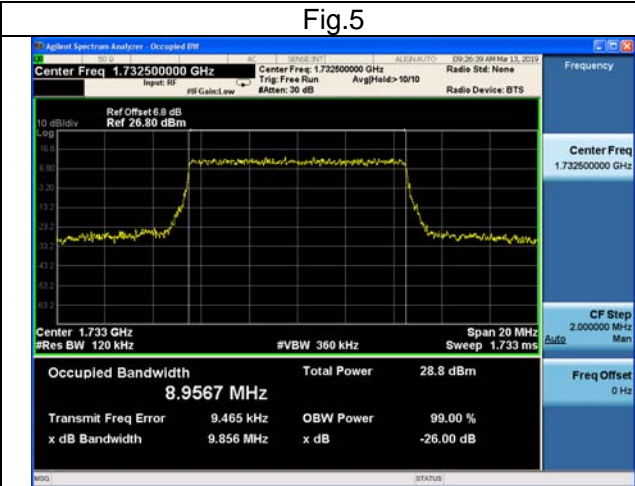


Fig.6

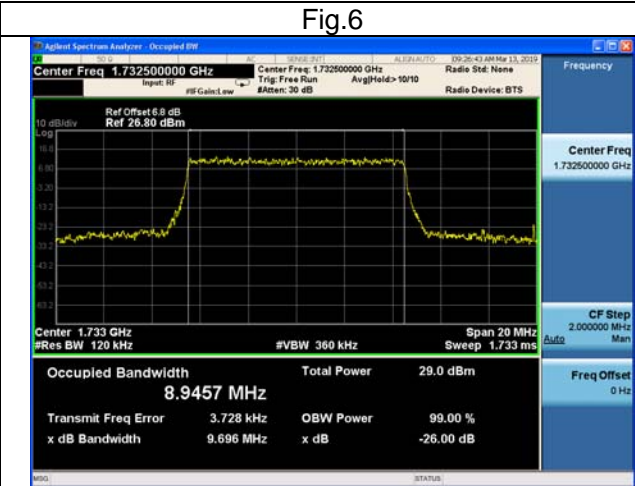


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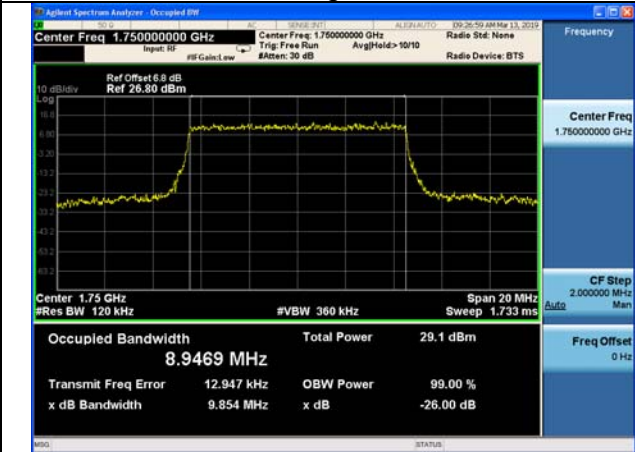


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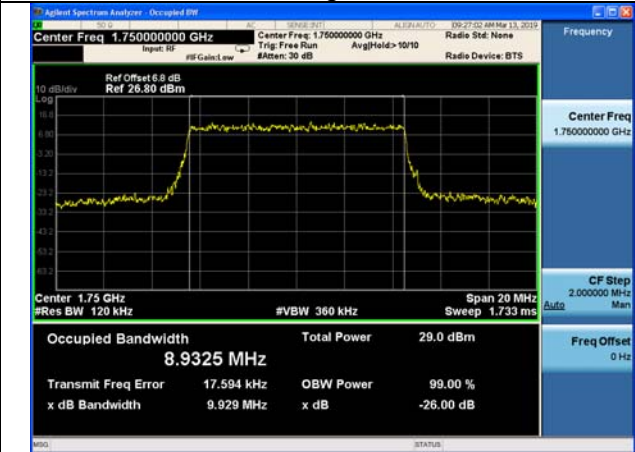
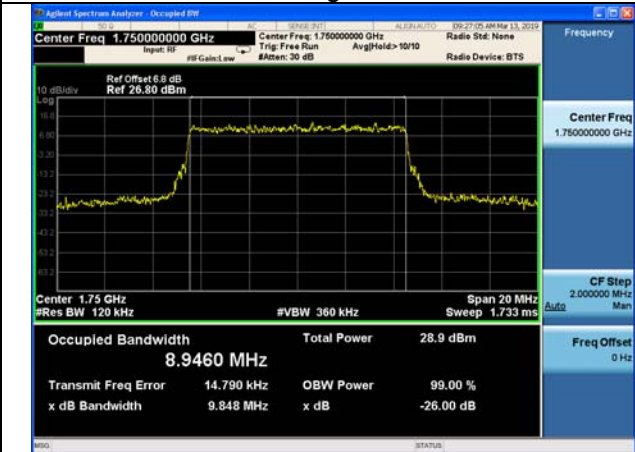


Fig.9



Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1717.5	20025	15	75	0	13.447	Fig.1	13.422	Fig.2	13.424	Fig.3
4	1732.5	20175	15	75	0	13.412	Fig.4	13.414	Fig.5	13.413	Fig.6
4	1747.5	20325	15	75	0	13.389	Fig.7	13.392	Fig.8	13.366	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	1717.5	20025	15	75	0	14.69	Fig.1	14.80	Fig.2	14.80	Fig.3
4	1732.5	20175	15	75	0	14.65	Fig.4	14.52	Fig.5	14.59	Fig.6
4	1747.5	20325	15	75	0	14.61	Fig.7	14.52	Fig.8	14.40	Fig.9

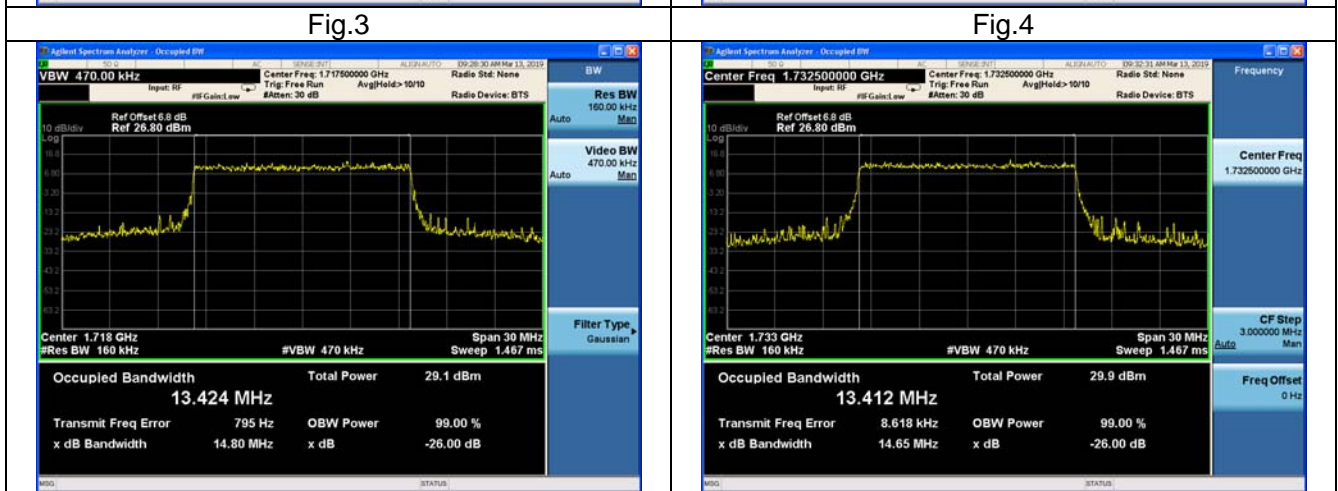
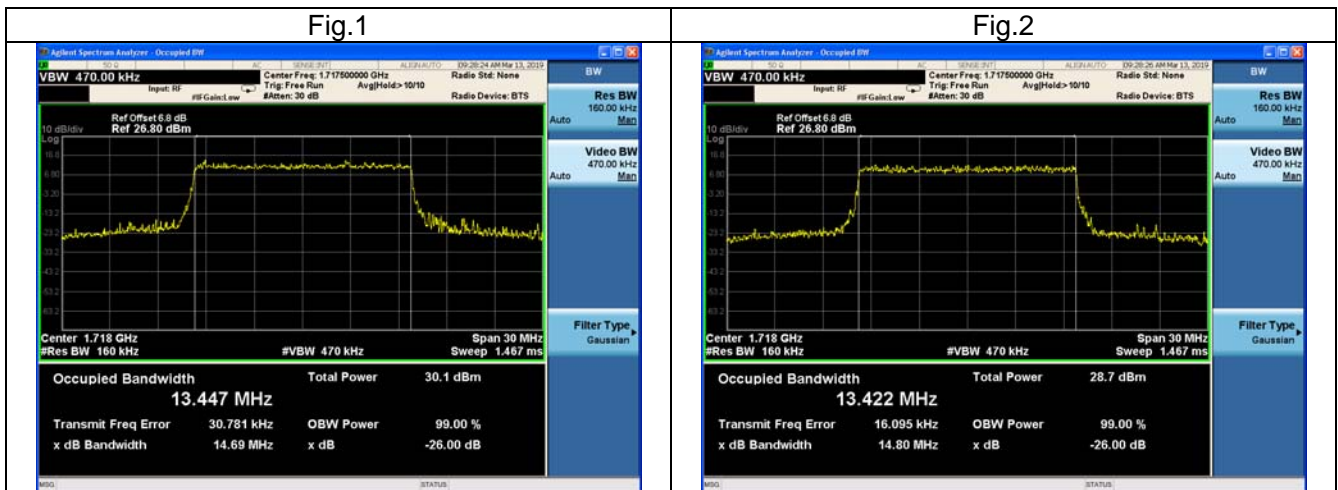


Fig.5

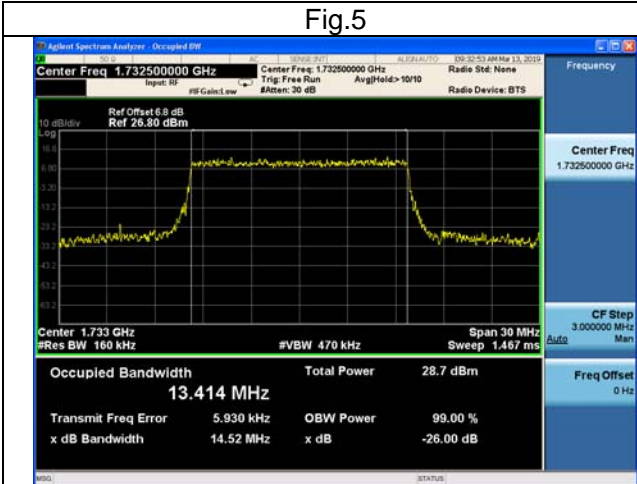


Fig.6

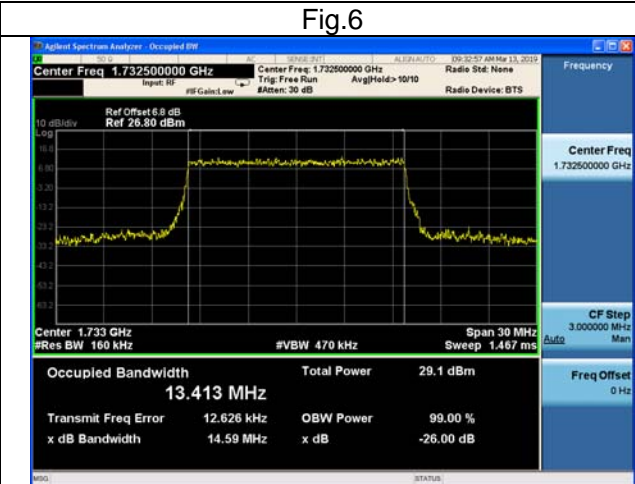


Fig.7

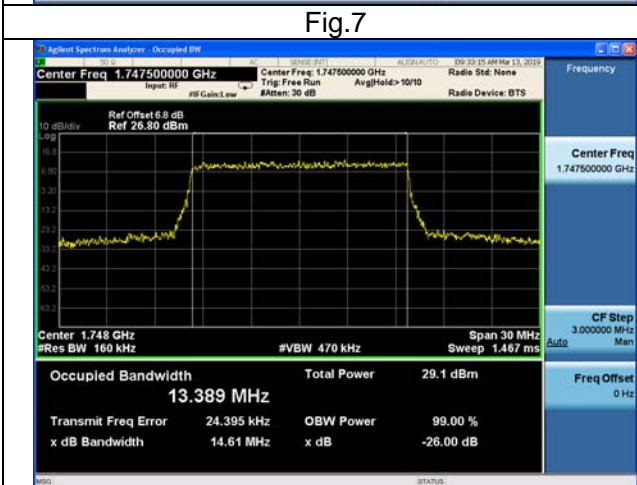


Fig.8

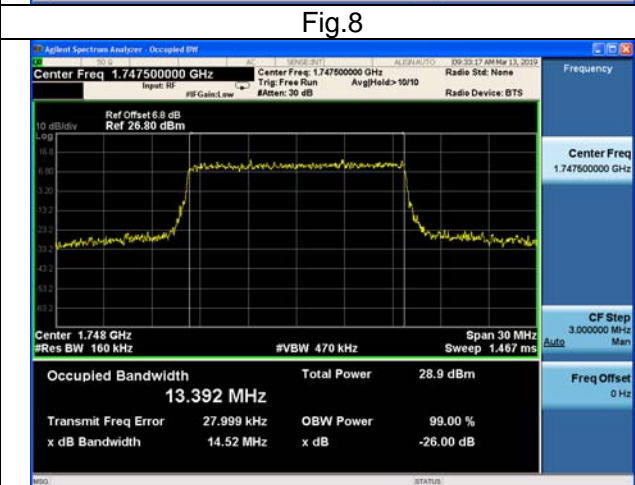
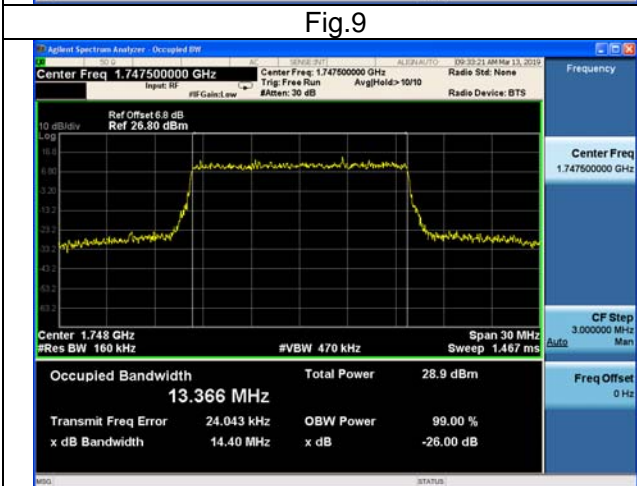


Fig.9



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	17.851	Fig.1	17.864	Fig.2	17.849	Fig.3
4	1732.5	20175	20	100	0	17.881	Fig.4	17.882	Fig.5	17.879	Fig.6
4	1745	20300	20	100	0	17.887	Fig.7	17.865	Fig.8	17.830	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	19.91	Fig.1	19.23	Fig.2	19.20	Fig.3
4	1732.5	20175	20	100	0	19.32	Fig.4	19.24	Fig.5	19.09	Fig.6
4	1745	20300	20	100	0	19.41	Fig.7	19.11	Fig.8	19.31	Fig.9

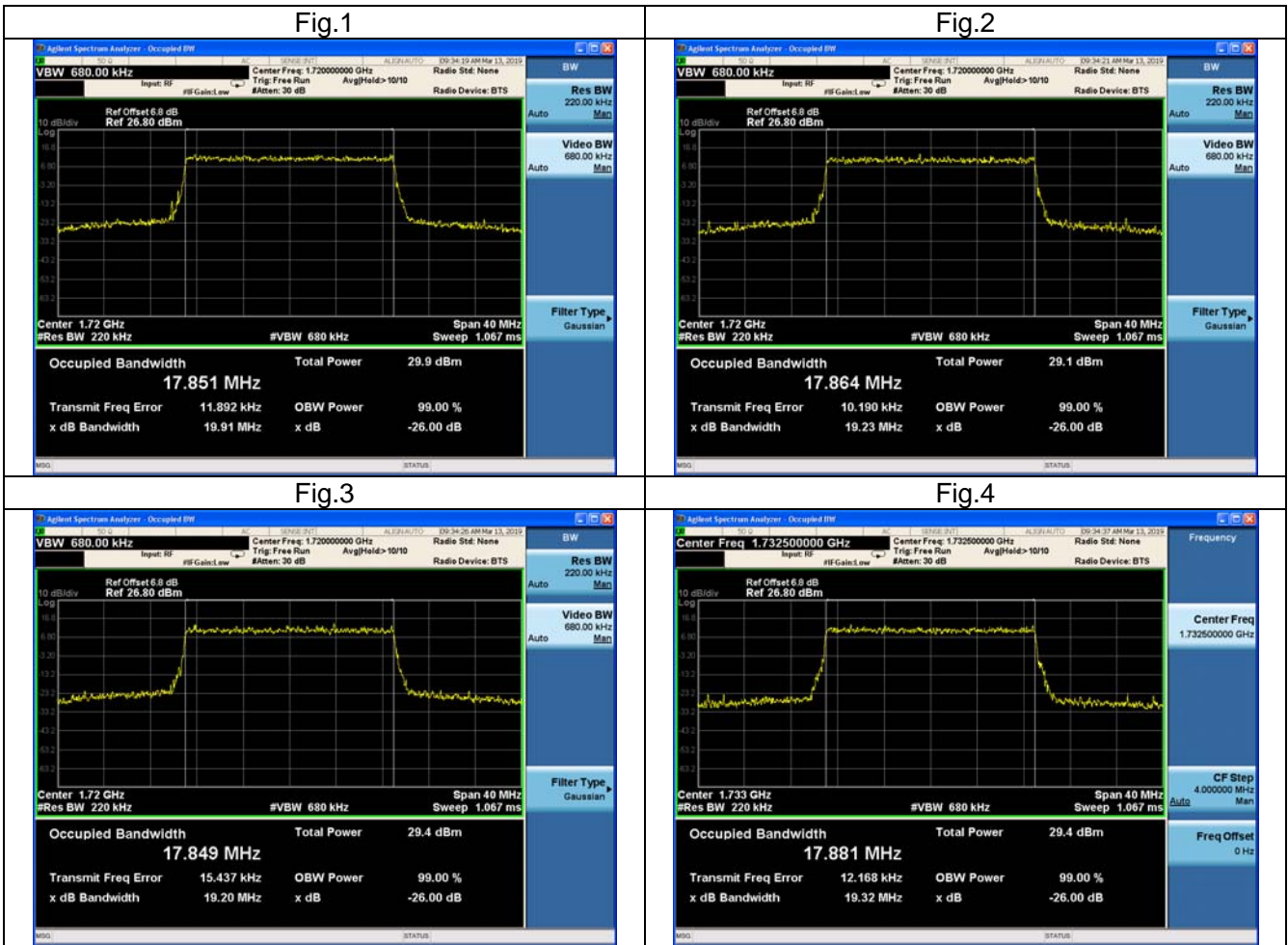


Fig.5

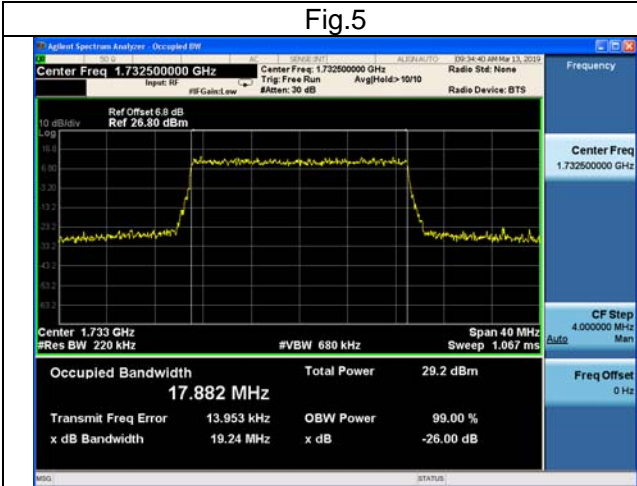


Fig.6

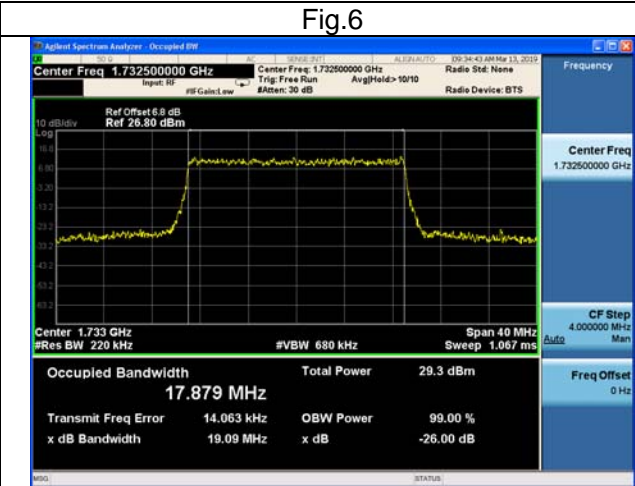


Fig.7

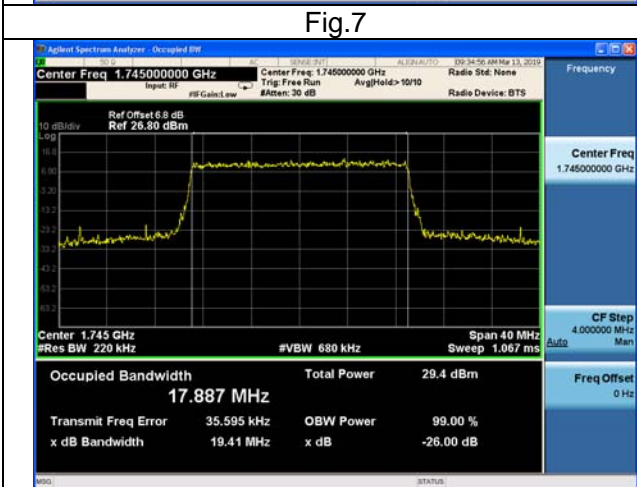


Fig.8

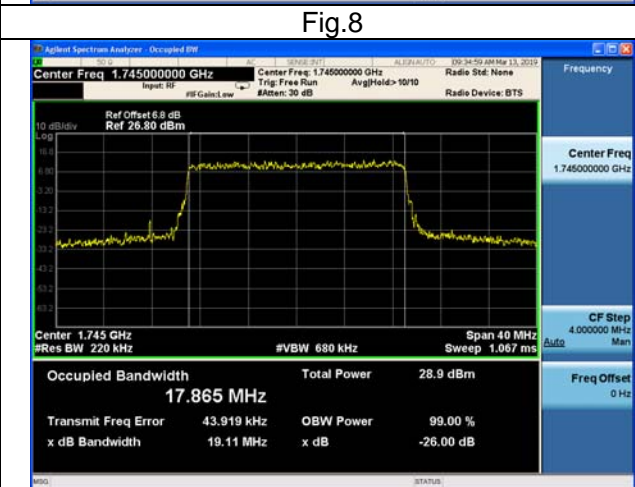
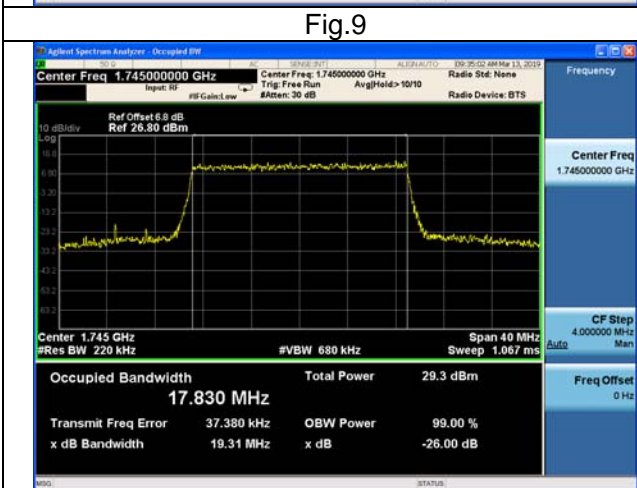
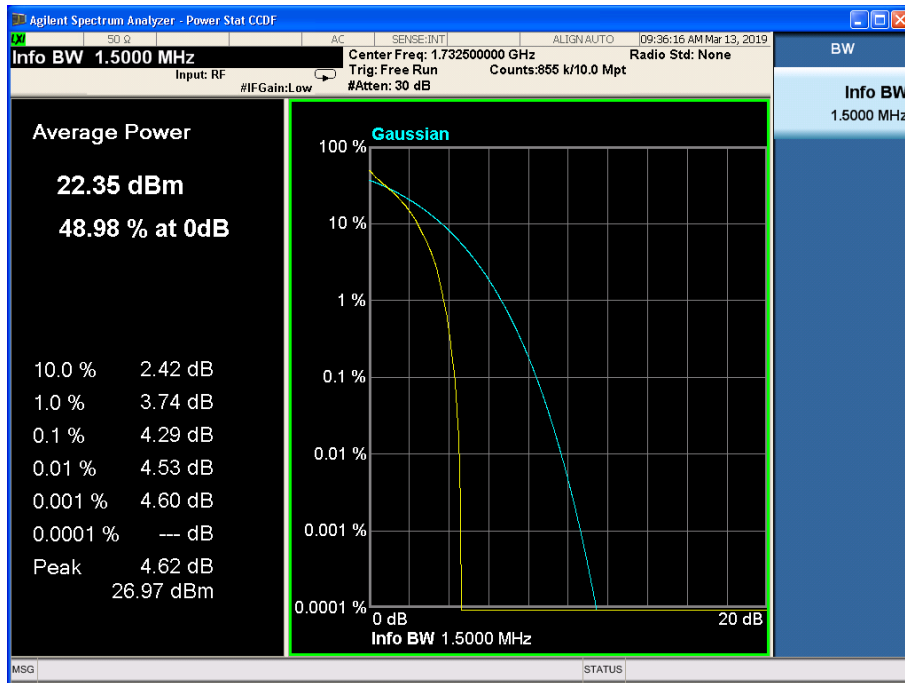


Fig.9

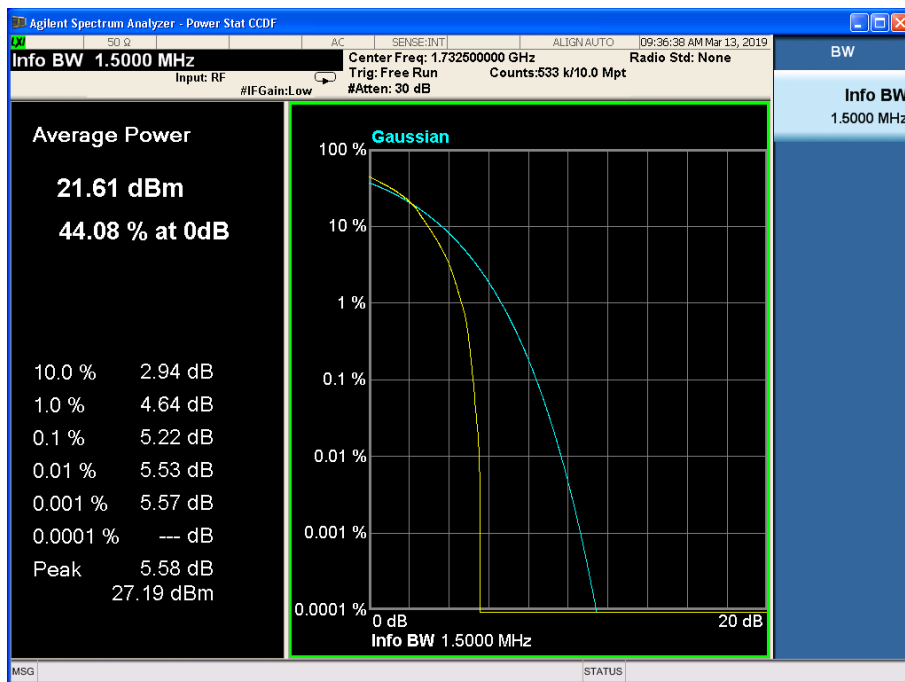


3 Peak-Average Ratio

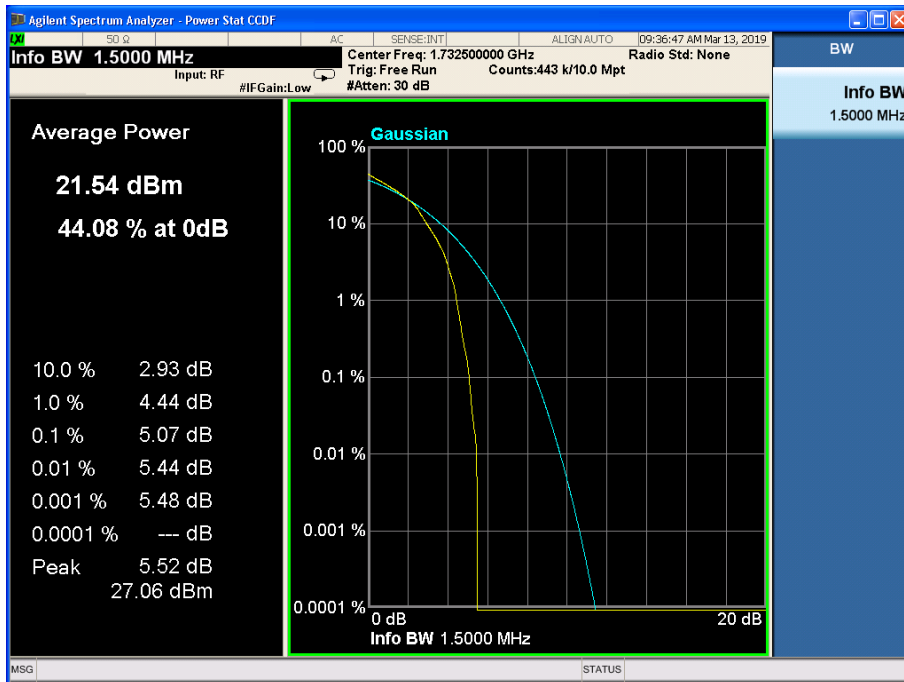
Test result:



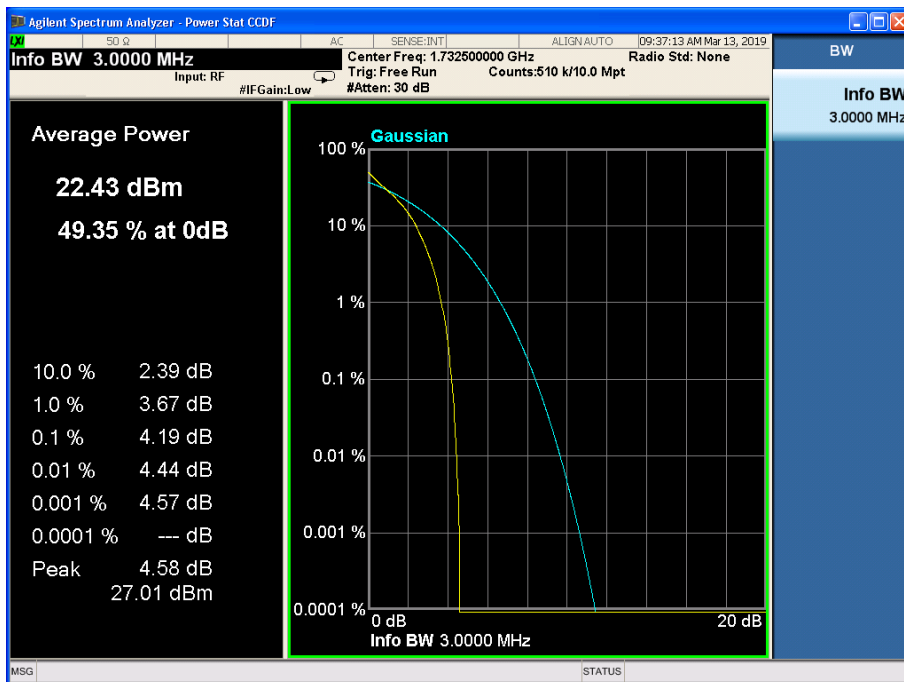
Peak-Average Ratio Plot(1.4MHz BW,QPSK,Band 4-mid Channel)



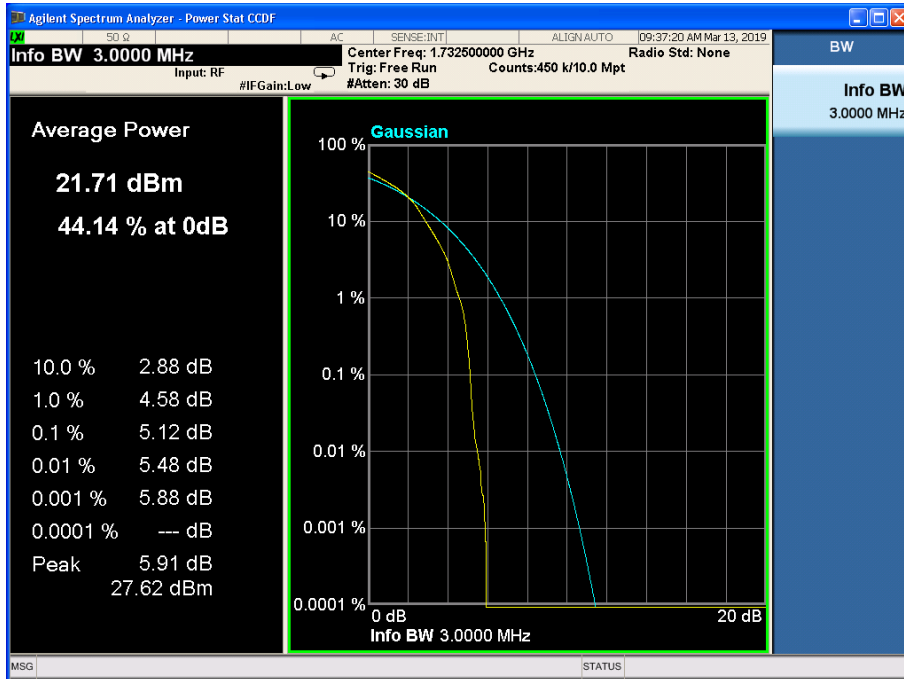
Peak-Average Ratio Plot(1.4MHz BW,16QAM,Band 4-mid Channel)



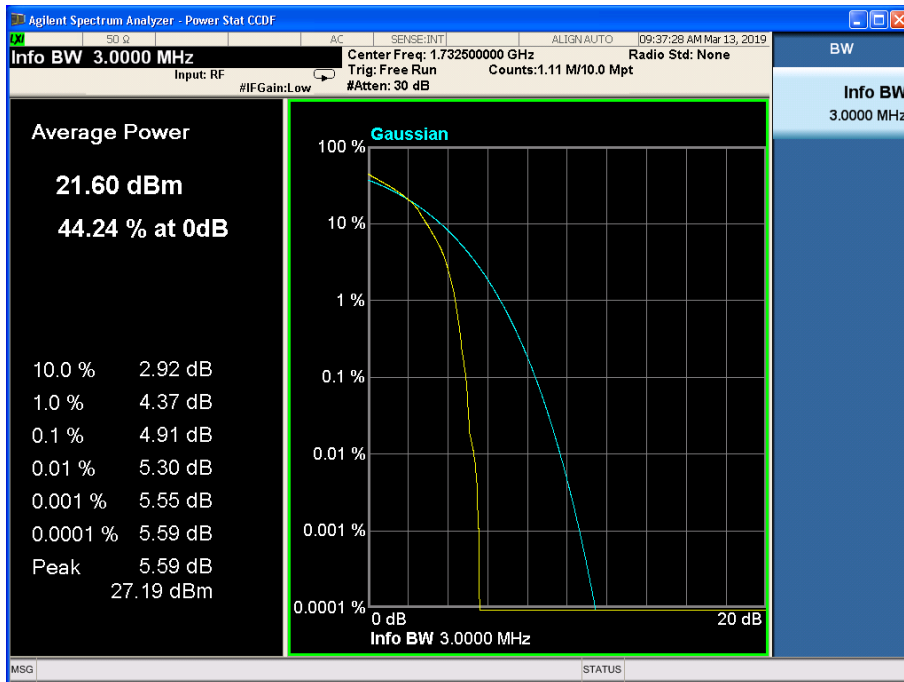
Peak-Average Ratio Plot(1.4MHz BW,64QAM,Band 4-mid Channel)



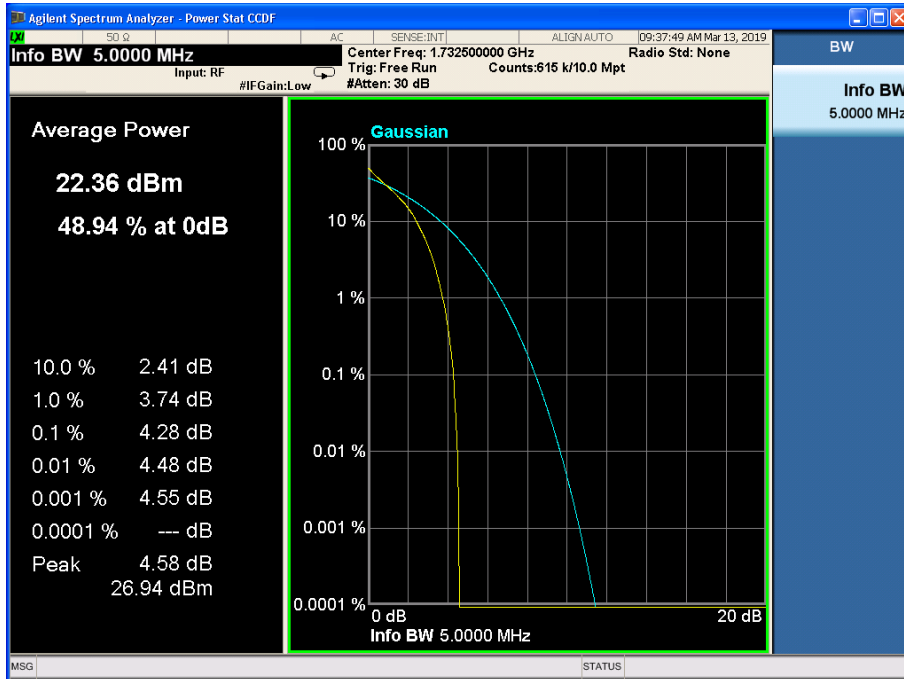
Peak-Average Ratio Plot(3MHz BW,QPSK,Band 4-mid Channel)



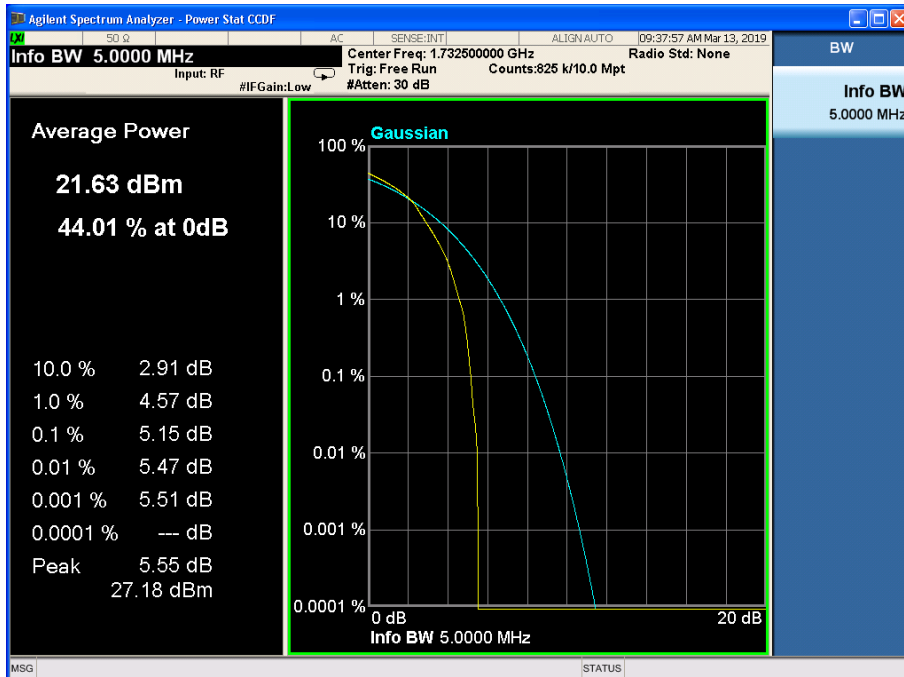
Peak-Average Ratio Plot(3MHz BW,16QAM,Band 4-mid Channel)



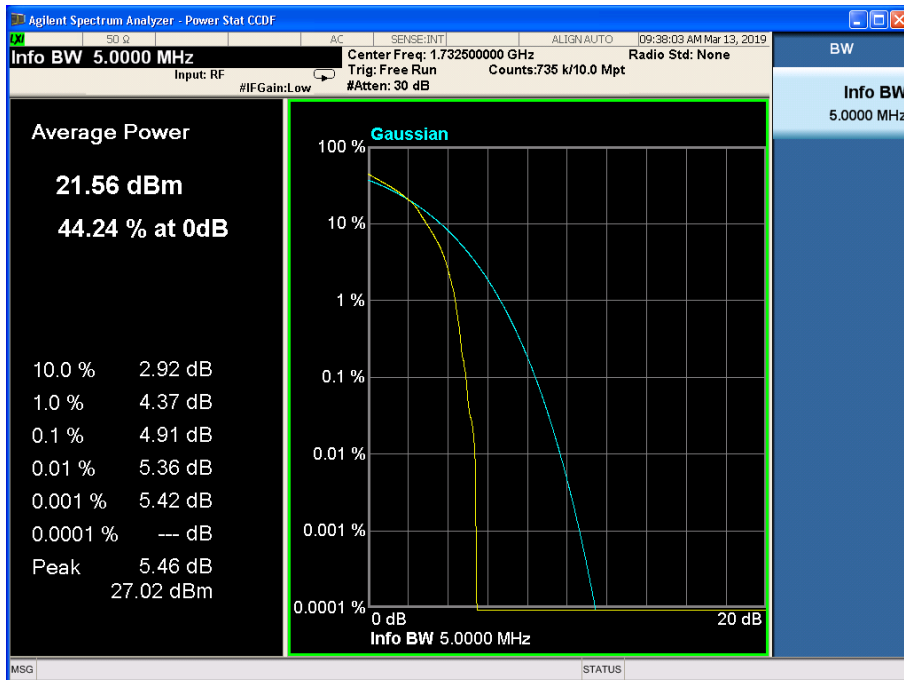
Peak-Average Ratio Plot(3MHz BW,64QAM,Band 4-mid Channel)



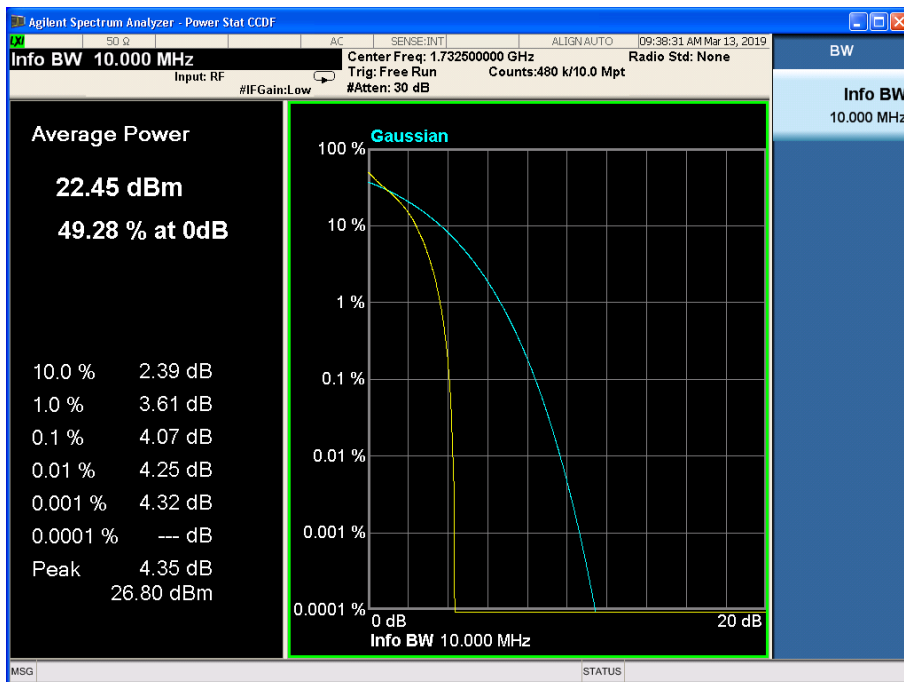
Peak-Average Ratio Plot(5MHz BW,QPSK,Band 4-mid Channel)



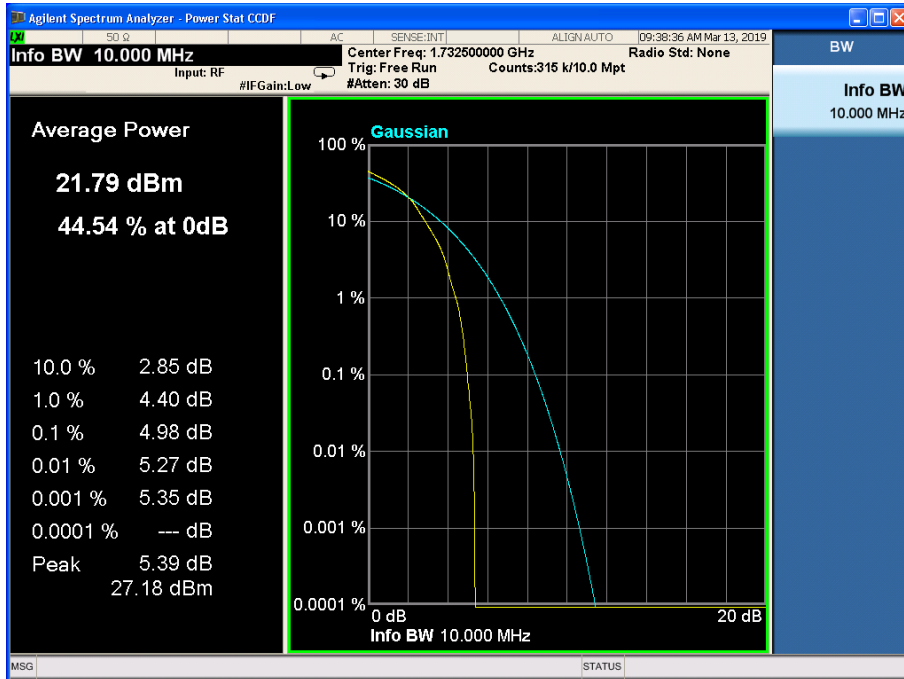
Peak-Average Ratio Plot(5MHz BW,16QAM,Band 4-mid Channel)



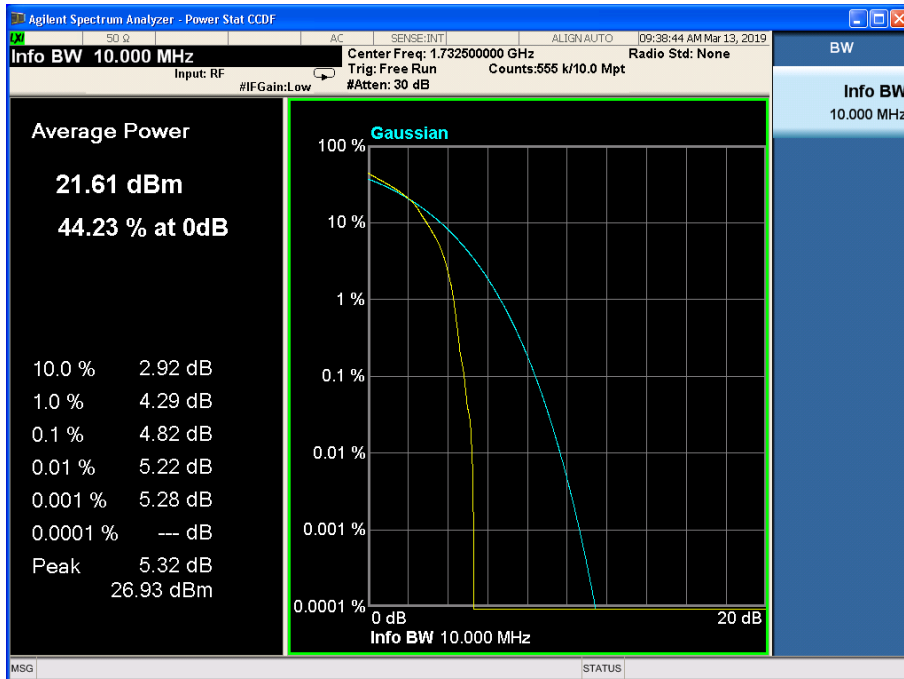
Peak-Average Ratio Plot(5MHz BW,64QAM,Band 4-mid Channel)



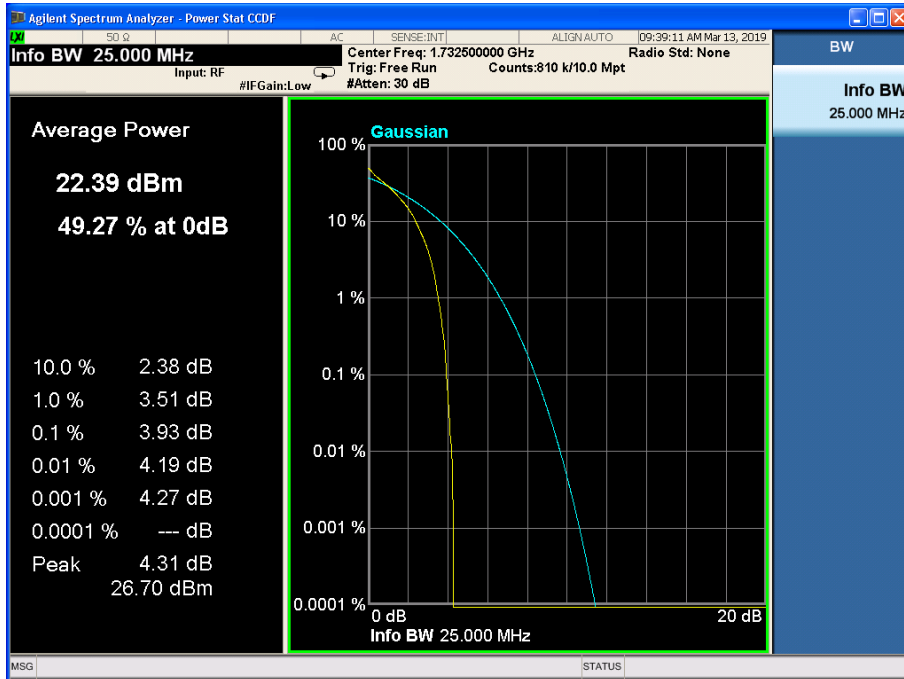
Peak-Average Ratio Plot(10MHz BW,QPSK,Band 4-mid Channel)



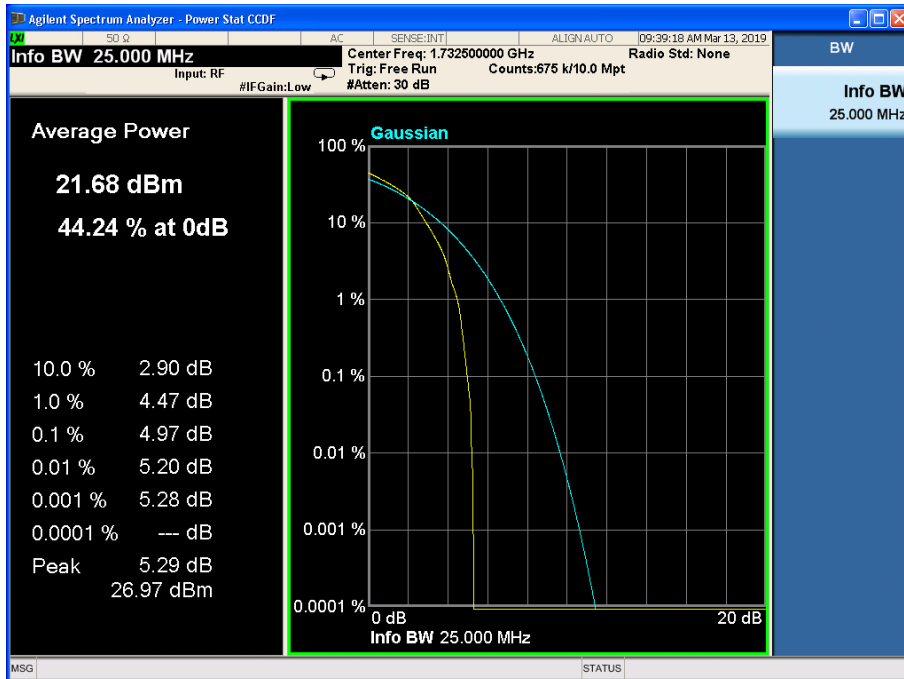
Peak-Average Ratio Plot(10MHz BW,16QAM,Band 4-mid Channel)



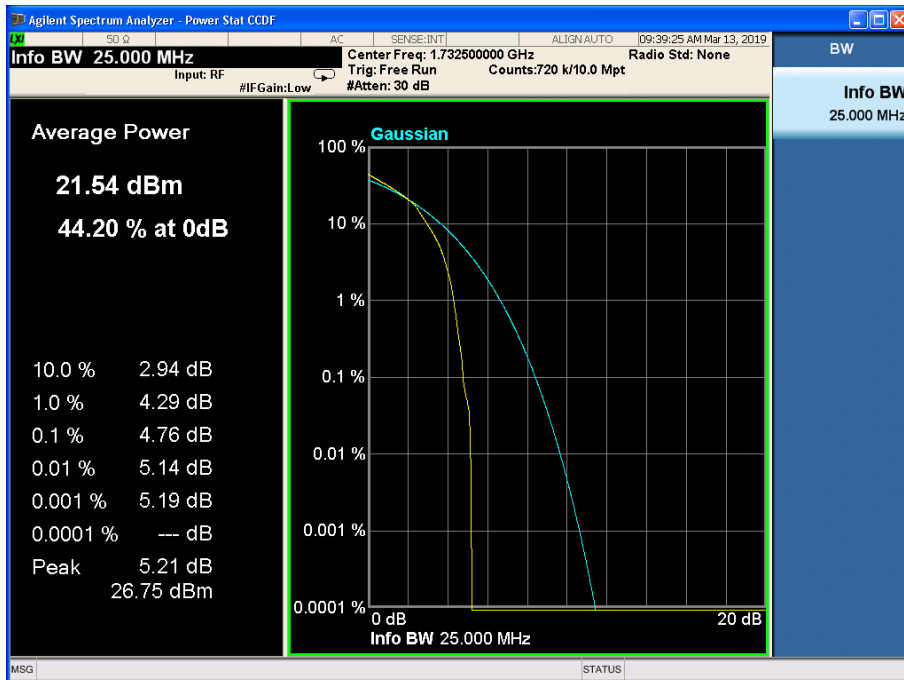
Peak-Average Ratio Plot(10MHz BW,64QAM,Band 4-mid Channel)



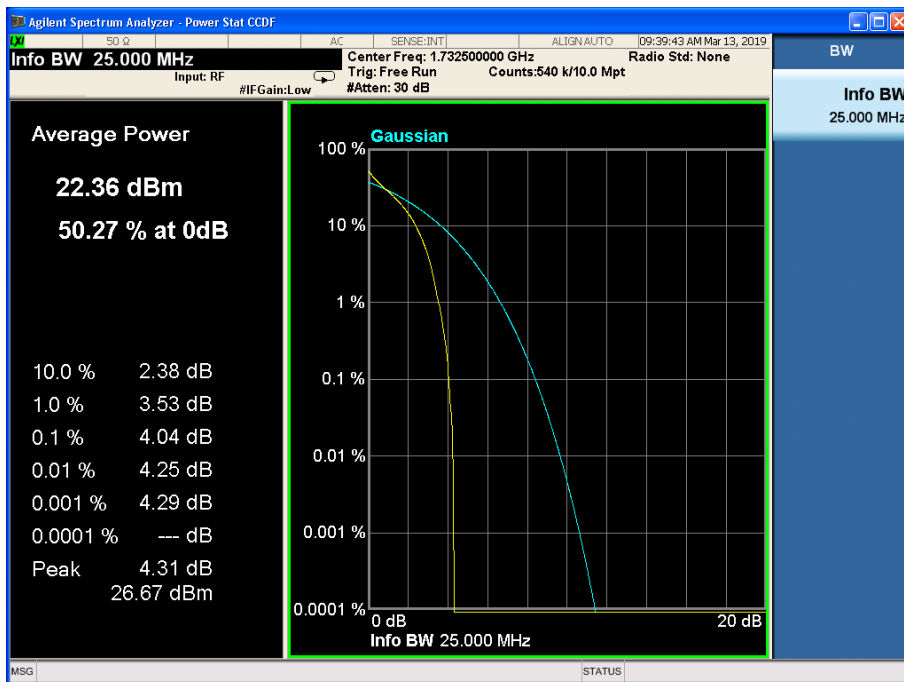
Peak-Average Ratio Plot(15MHz BW,QPSK,Band 4-mid Channel)



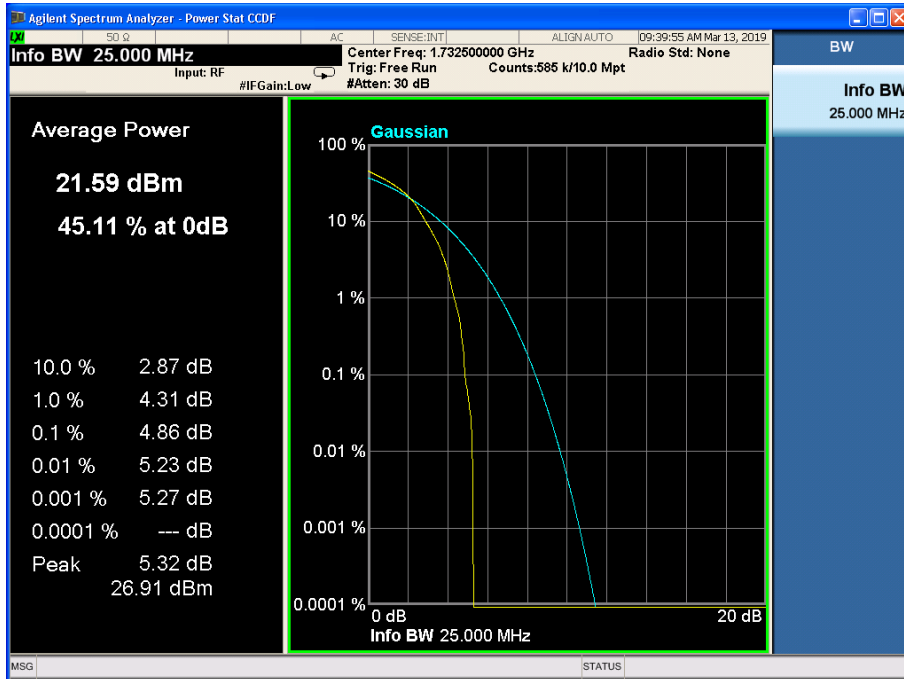
Peak-Average Ratio Plot(15MHz BW,16QAM,Band 4-mid Channel)



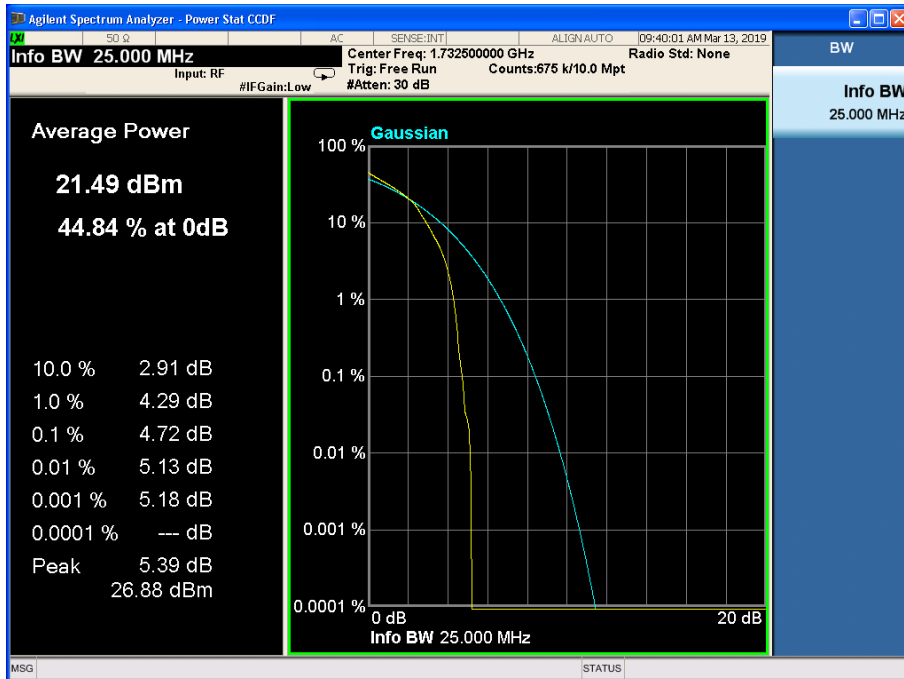
Peak-Average Ratio Plot(15MHz BW,64QAM,Band 4-mid Channel)



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

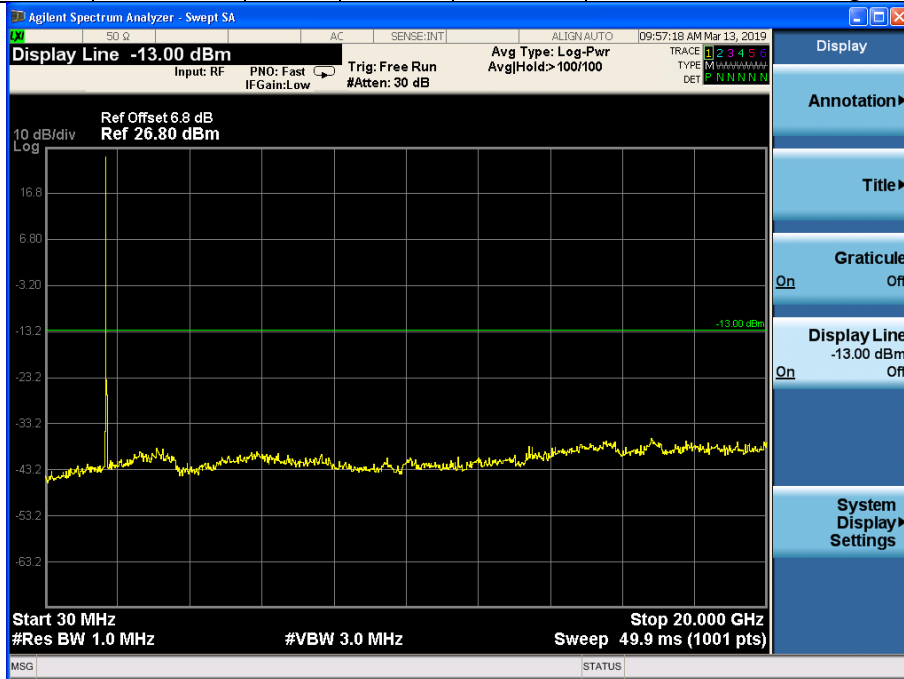


Fig.1

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

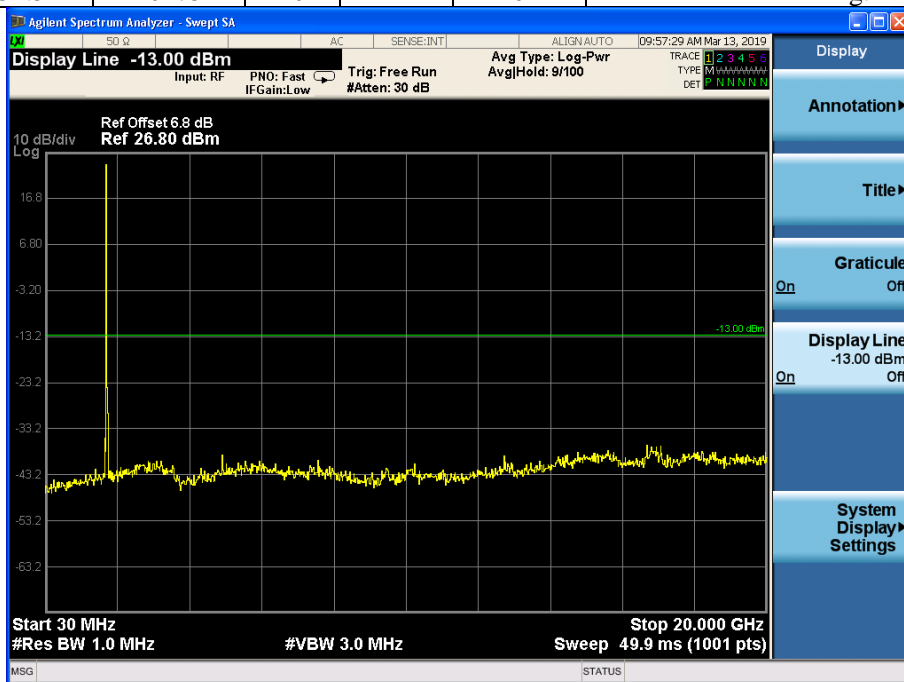


Fig.1

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

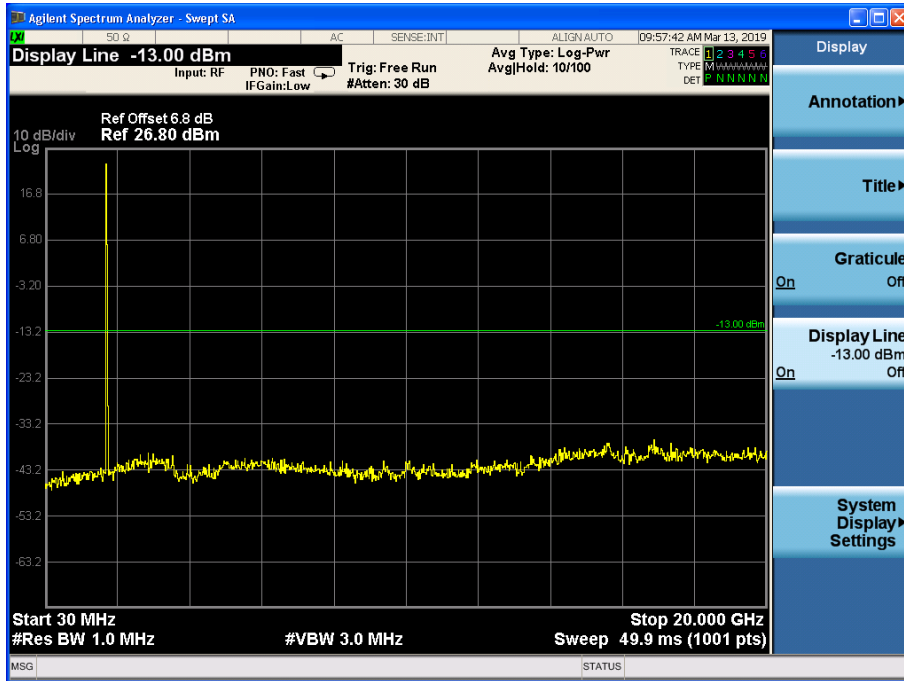


Fig.1

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

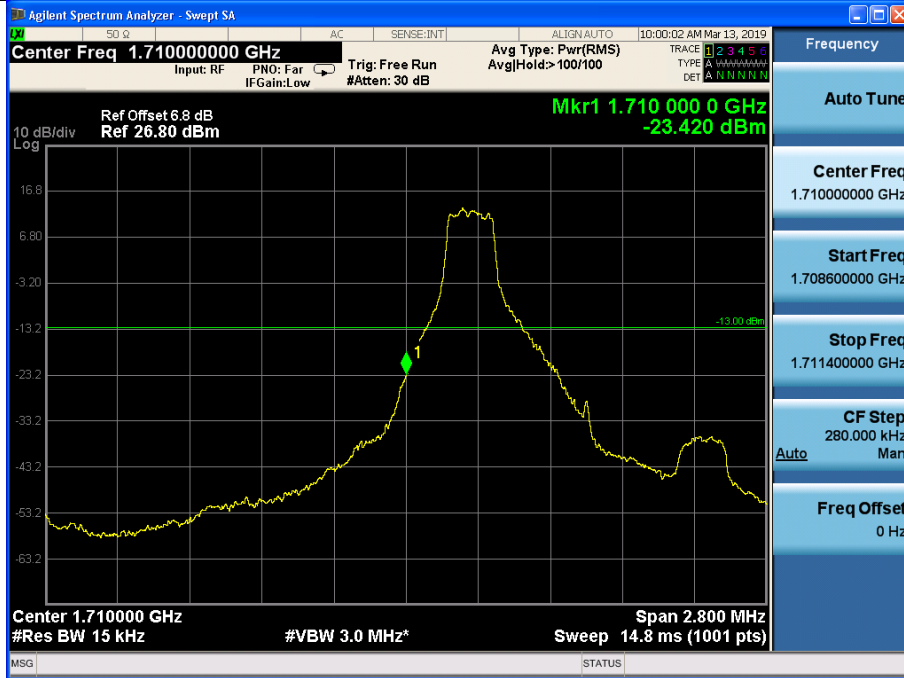


Fig.1

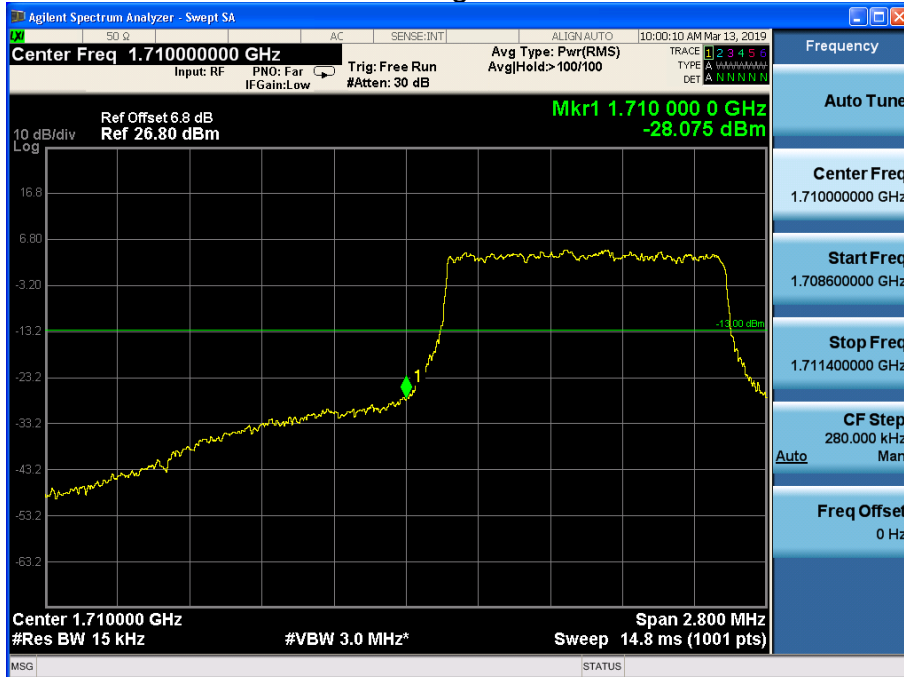


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1754.3	20393	1.4	1	5	Fig.1
				6	0	Fig.4

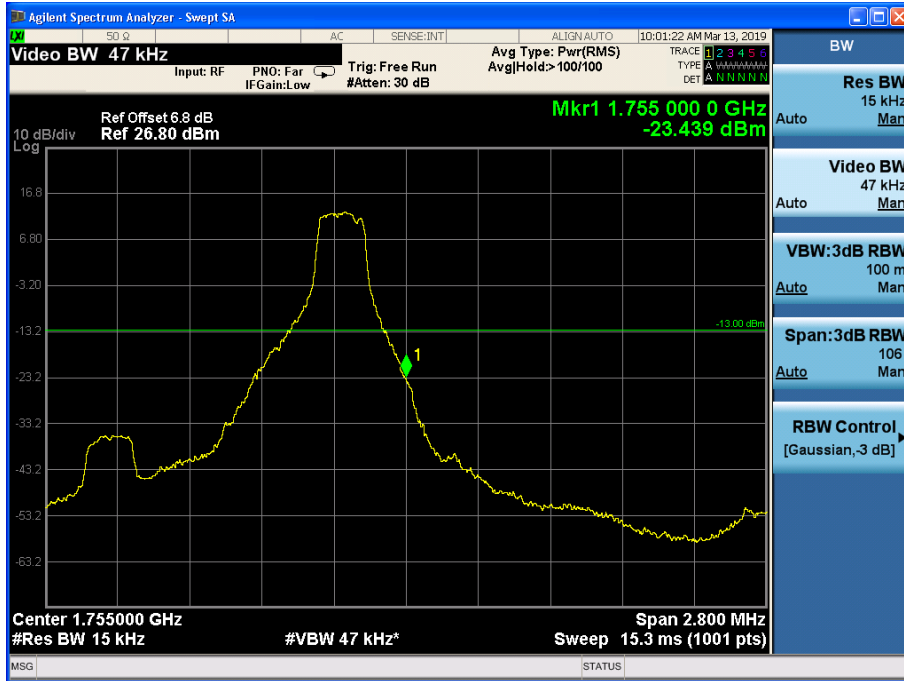


Fig.1



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

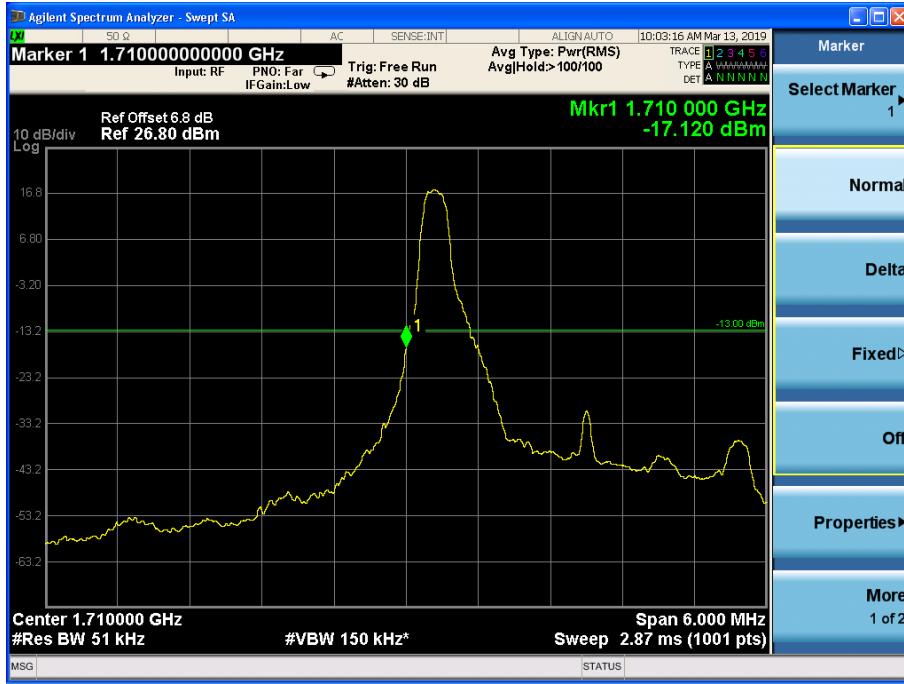


Fig.1



Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1753.5	20385	3	1	14	Fig.1
				15	0	Fig.4

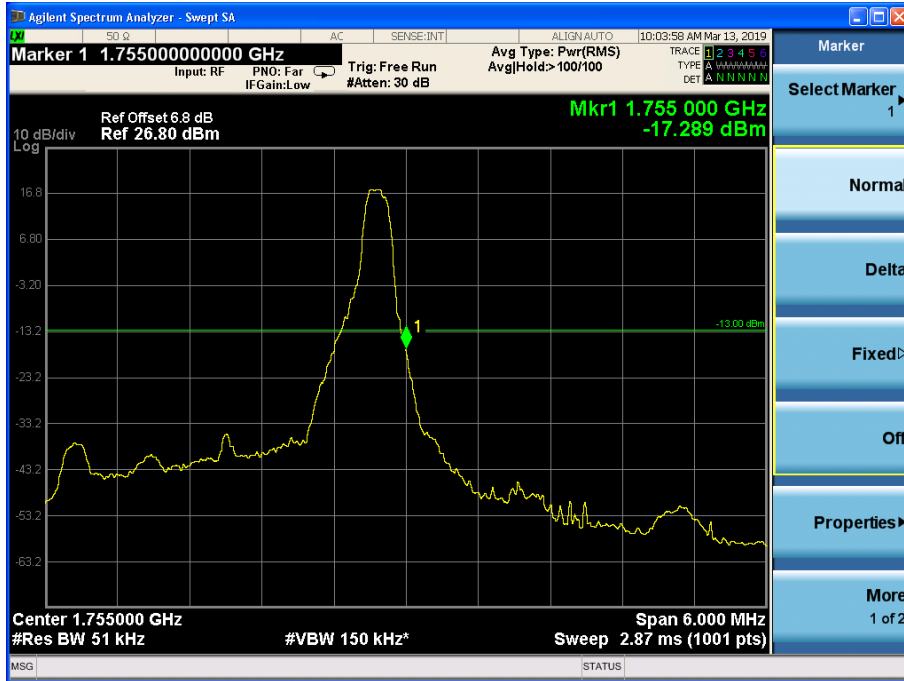


Fig.1



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

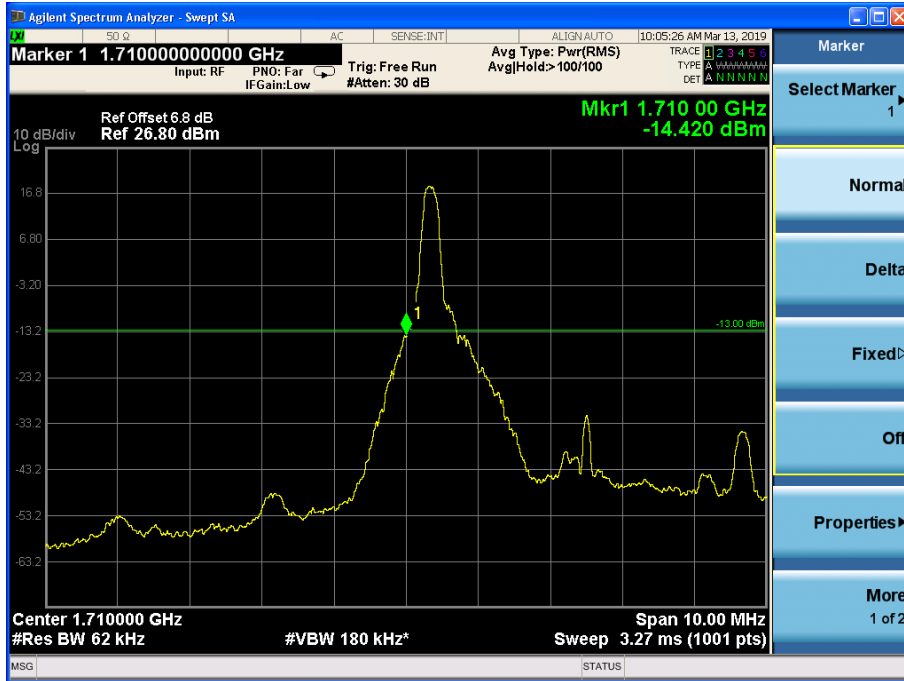


Fig.1



Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1752.5	20375	5	1	24	Fig.1
				25	0	Fig.4

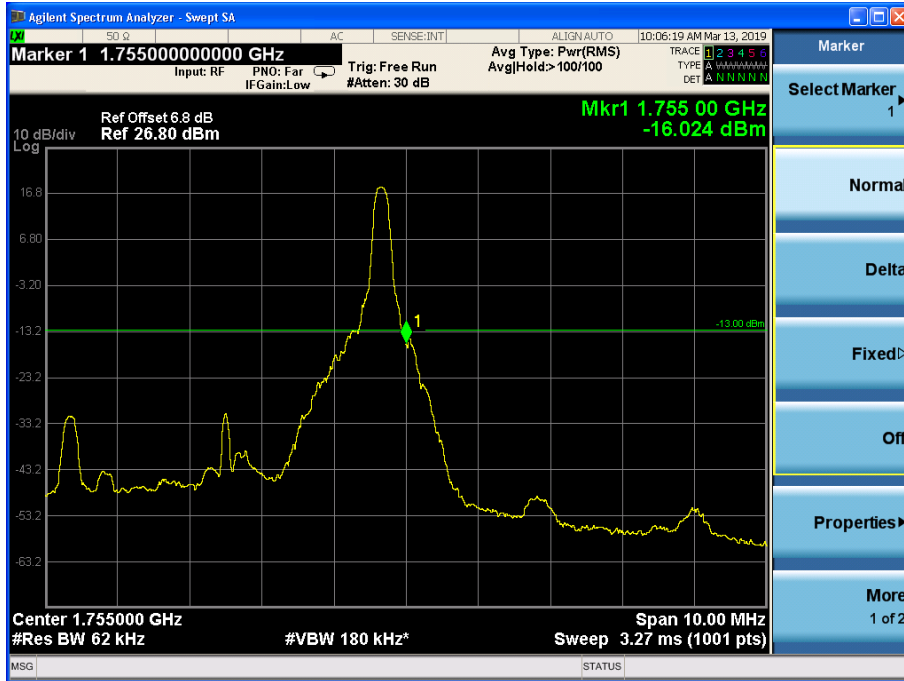


Fig.1



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

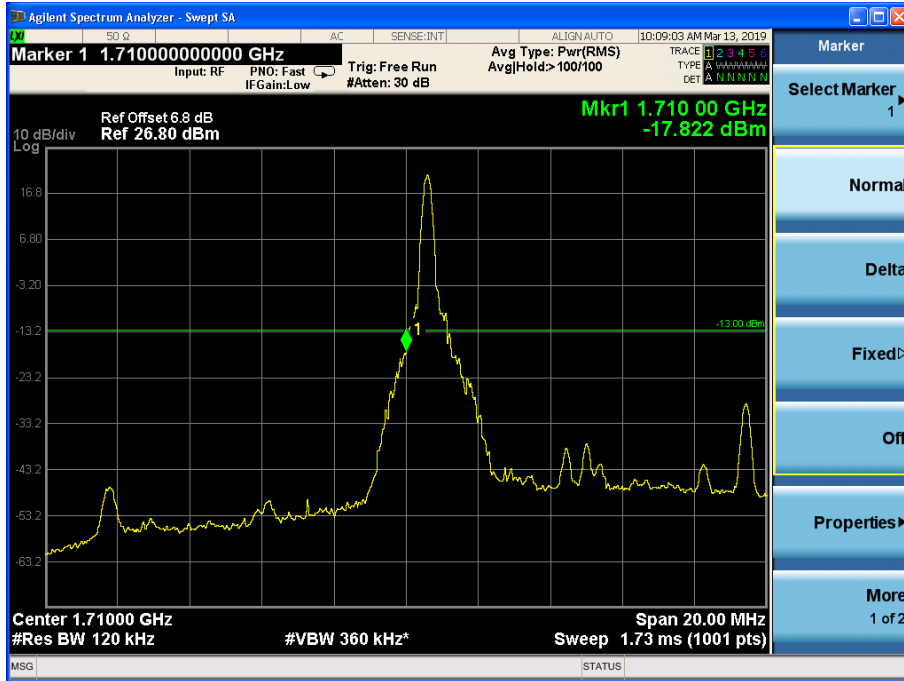


Fig.1

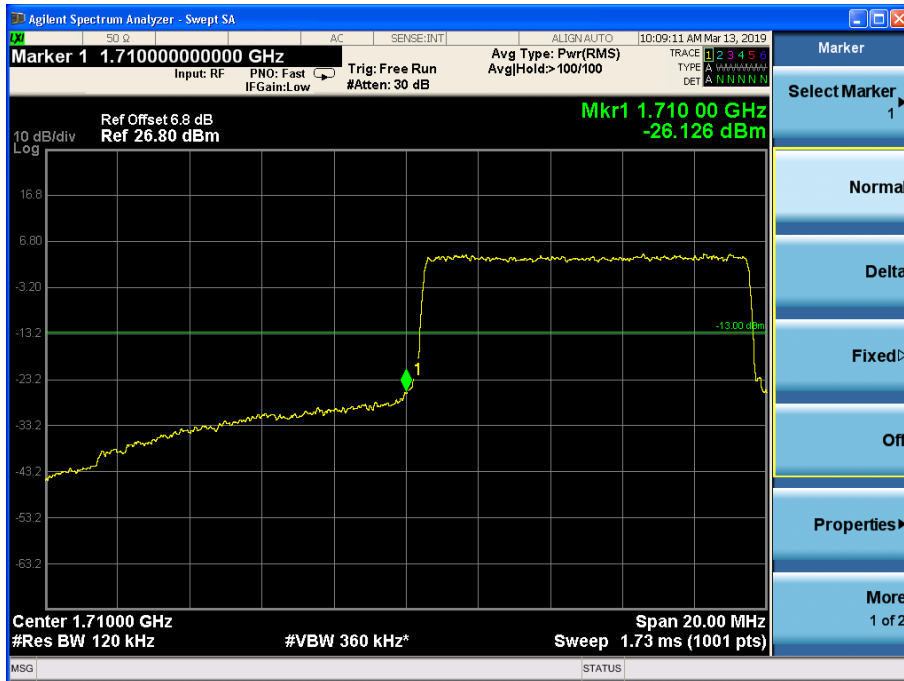


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1750	20350	10	1	49	Fig.1
				50	0	Fig.4

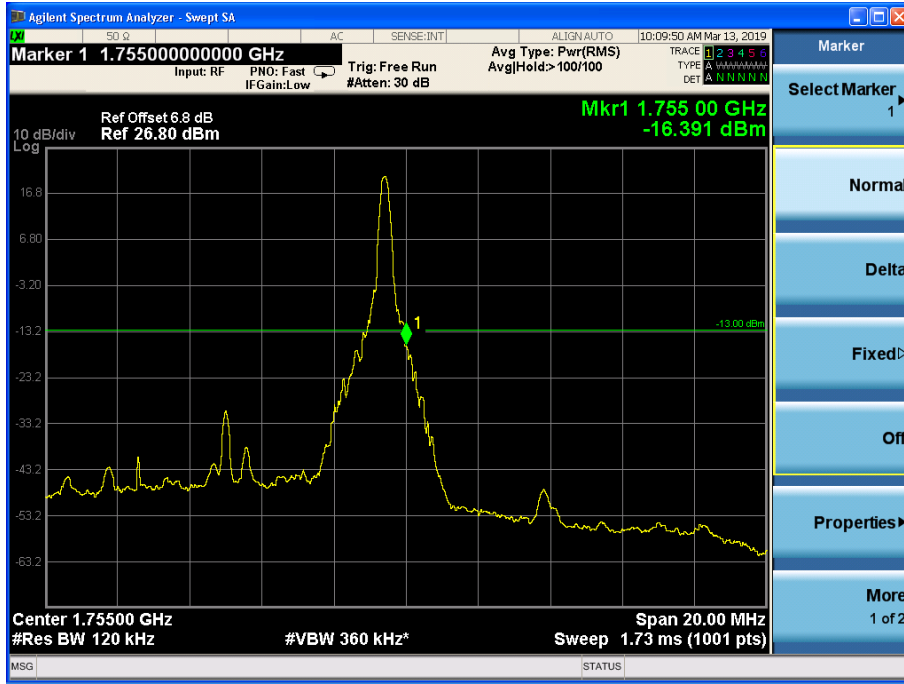


Fig.1



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

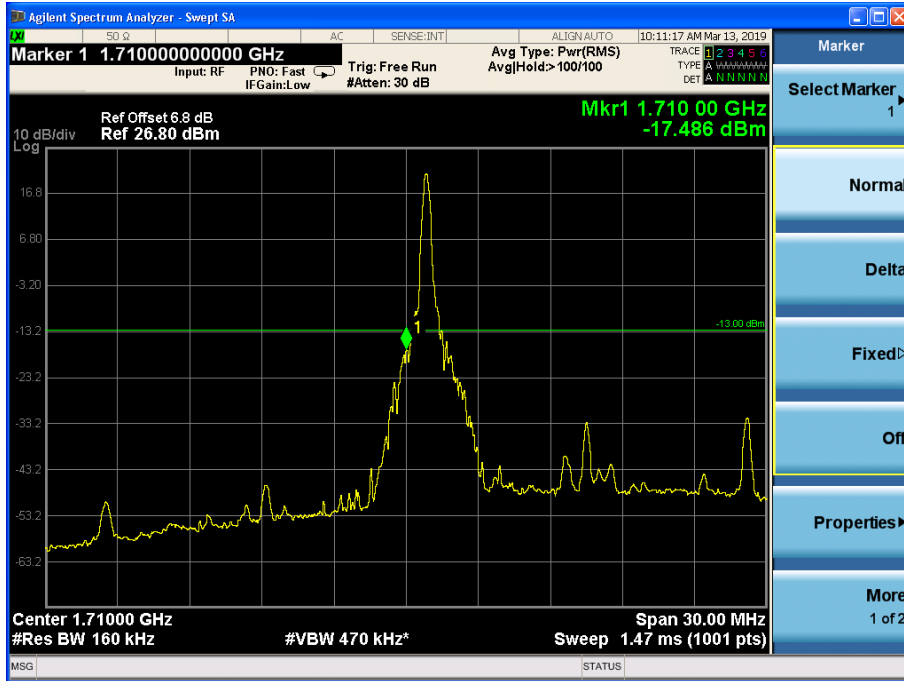


Fig.1

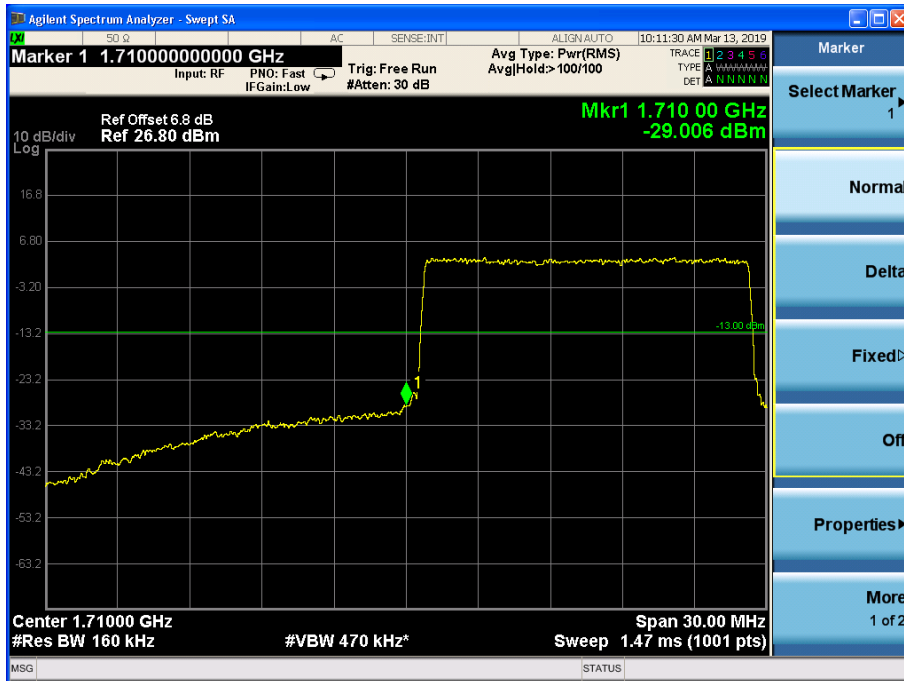


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1747.5	20325	15	1	74	Fig.1
				75	0	Fig.4

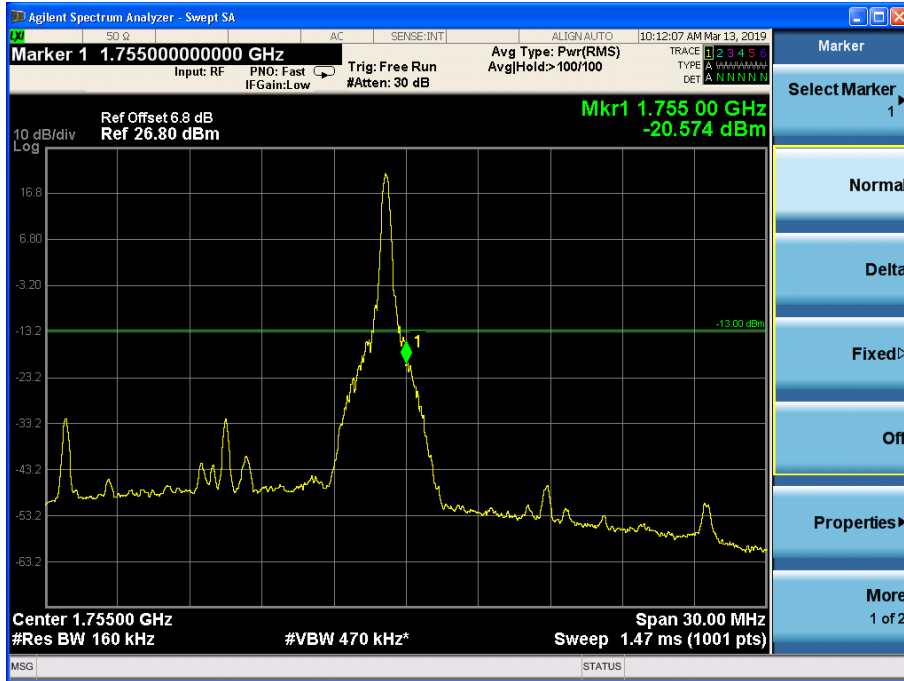


Fig.1



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

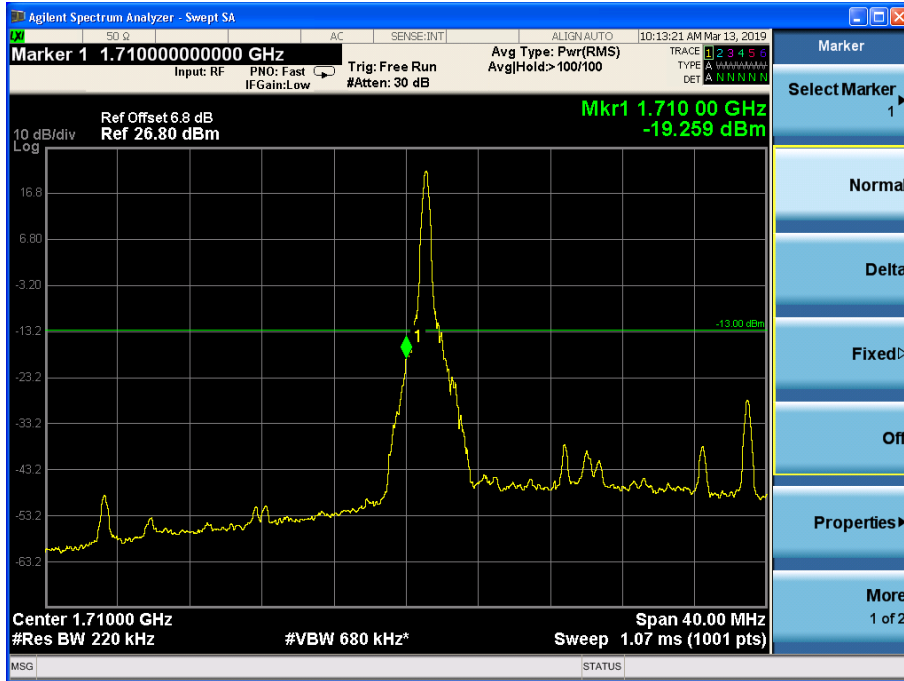


Fig.1

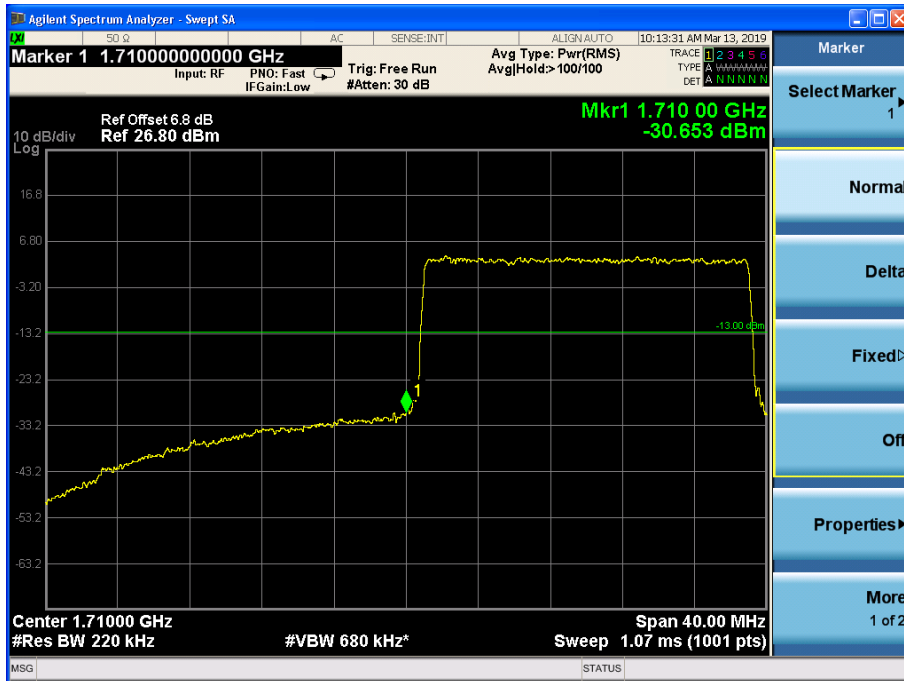


Fig.4

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
4	1745	20300	20	1	99	Fig.1
				100	0	Fig.4

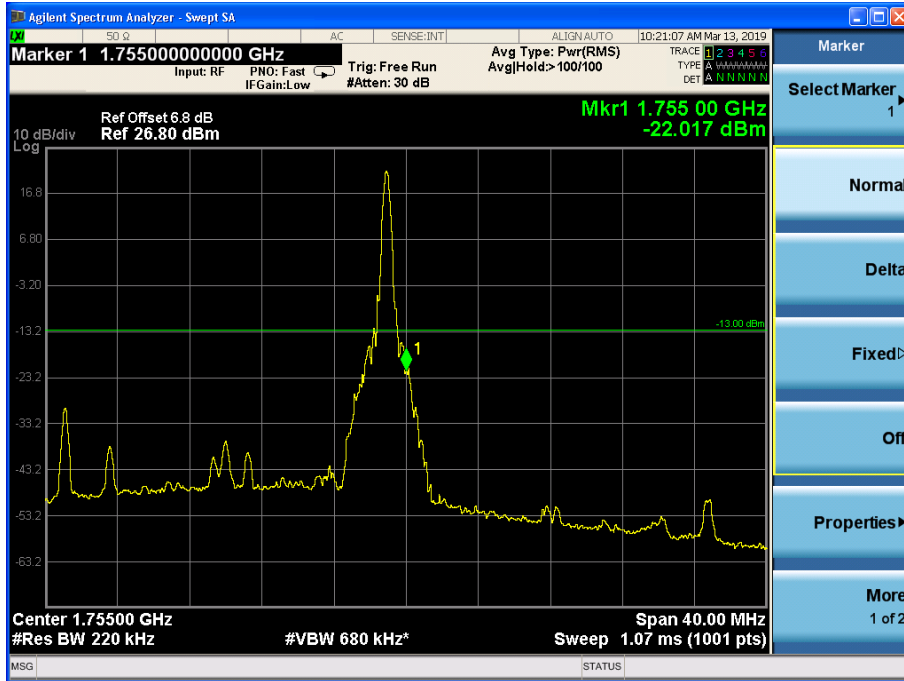


Fig.1



Fig.4

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band4 Low Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.114	0.007	0.089	0.095	0.018	0.153
0	NV	0.142	0.095	0.005	0.036	0.103	0.100
+10	NV	0.085	0.043	0.071	0.077	0.086	0.073
+20	NV	0.042	0.017	0.139	0.052	0.076	0.084
+30	NV	0.032	0.026	0.117	0.031	0.009	0.016
+40	NV	0.124	0.053	0.064	0.106	0.067	0.094
+50	NV	0.066	0.077	0.041	0.052	0.091	0.074
+55	NV	0.147	0.058	0.042	0.005	0.108	0.149
+20	LV	0.045	0.046	0.029	0.011	0.008	0.054
+20	HV	0.059	0.086	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	0.121	0.082	0.005	0.073	0.025	0.149
0	NV	0.041	0.096	0.122	0.112	0.138	0.116
+10	NV	0.093	0.102	0.066	0.072	0.068	0.029
+20	NV	0.014	0.090	0.063	0.103	0.104	0.108
+30	NV	0.119	0.018	0.127	0.041	0.023	0.154
+40	NV	0.024	0.036	0.136	0.060	0.010	0.051
+50	NV	0.080	0.044	0.049	0.071	0.033	0.085
+55	NV	0.037	0.030	0.061	0.084	0.088	0.081
+20	LV	0.064	0.046	0.041	0.092	0.096	0.140
+20	HV	0.015	0.061	0.140	0.037	0.001	0.005