

Fig.5

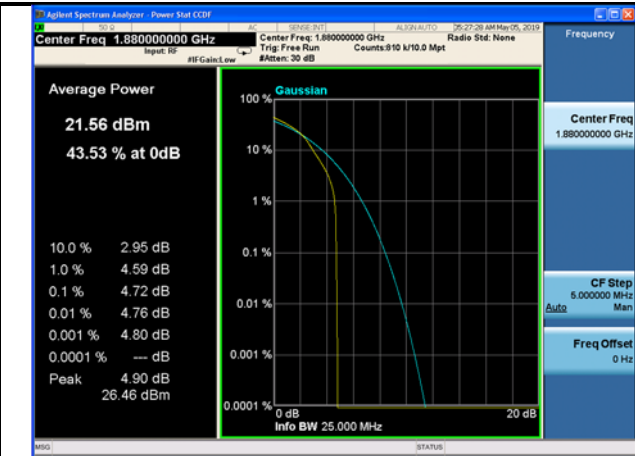


Fig.6

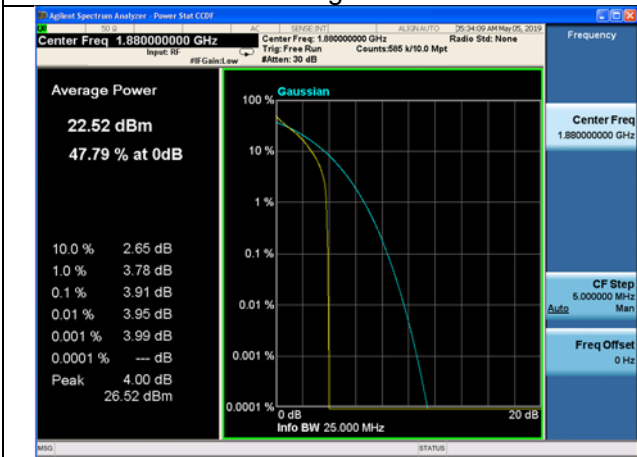


Fig.7

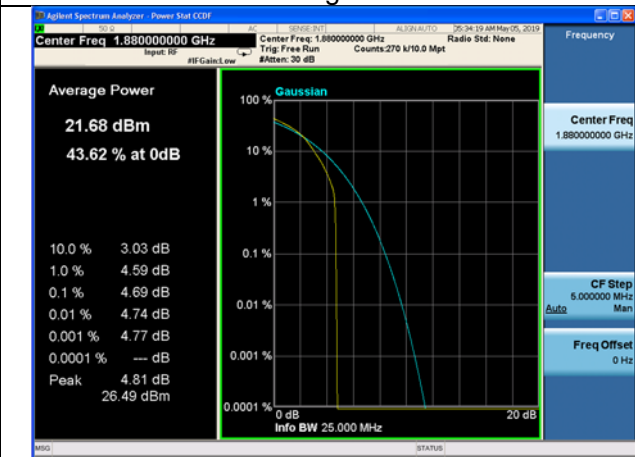


Fig.8

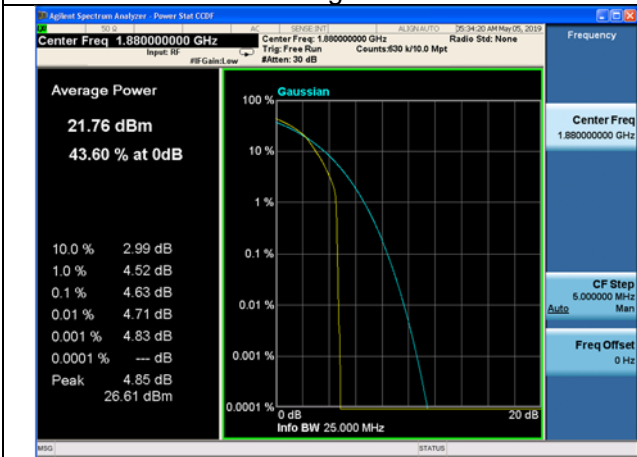


Fig.9

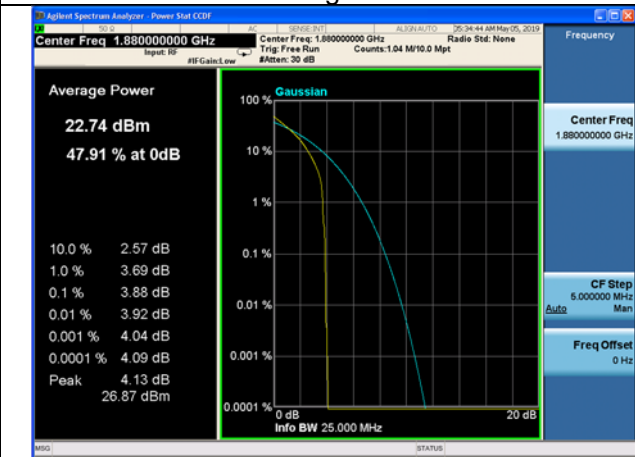


Fig.10

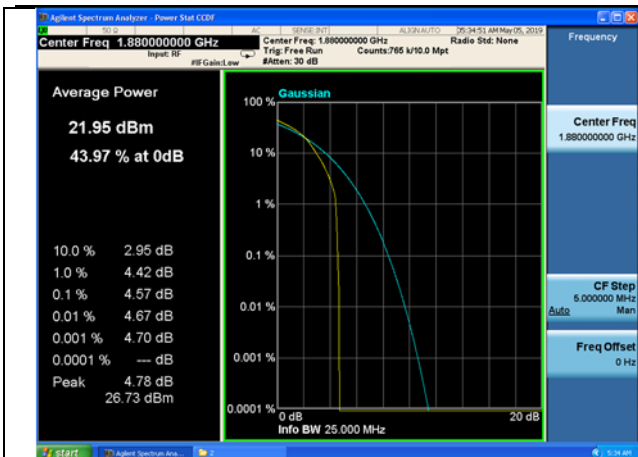


Fig.11

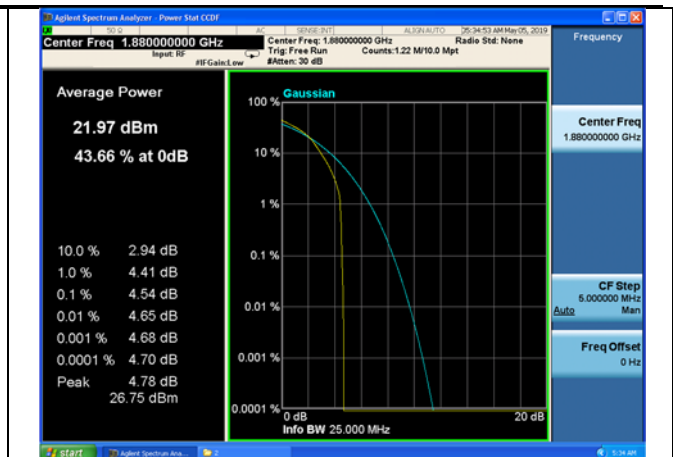


Fig.12

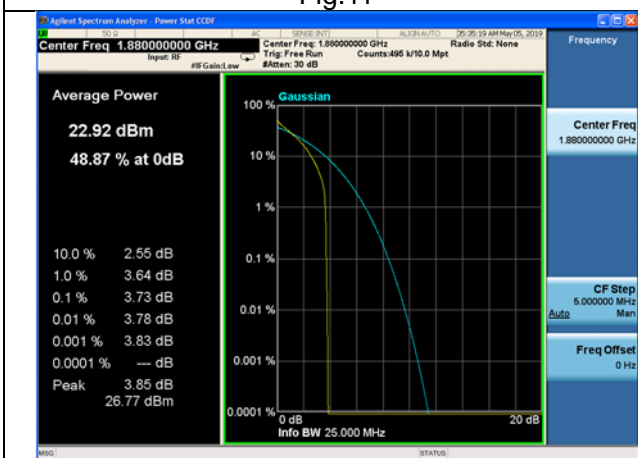


Fig.13

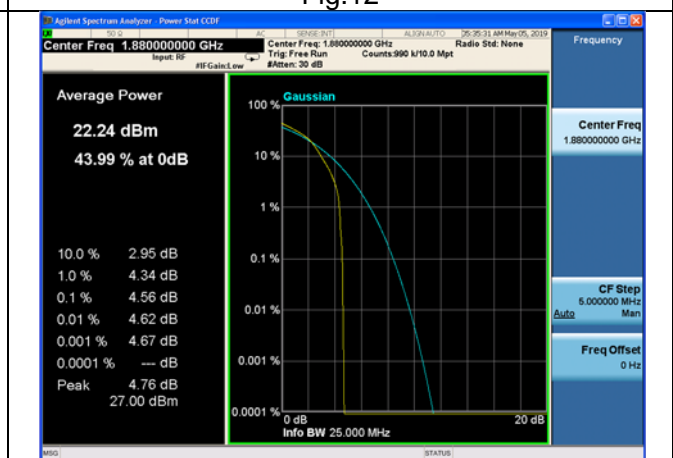


Fig.14

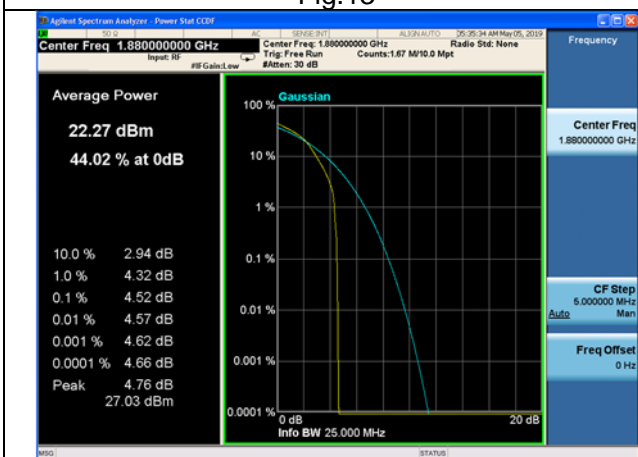


Fig.15

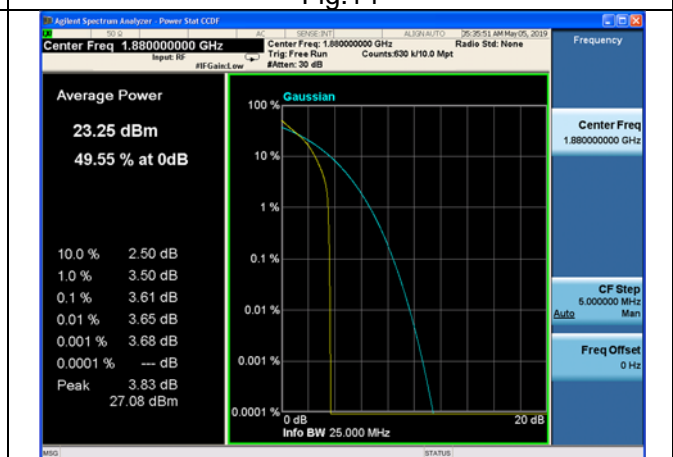


Fig.16

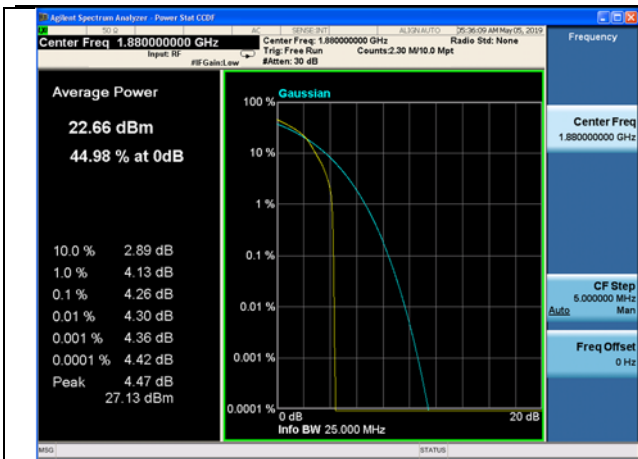


Fig.17

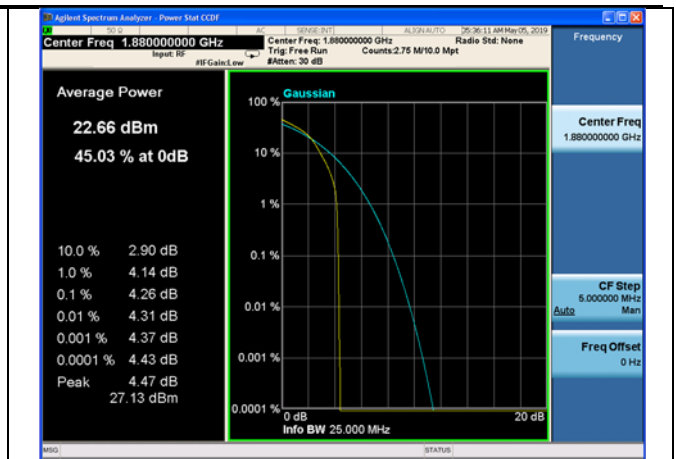


Fig.18

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
2	1860	18700	20	1	0	Fig.1
	1880	18900	20	1	0	Fig.2
	1900	19100	20	1	0	Fig.3

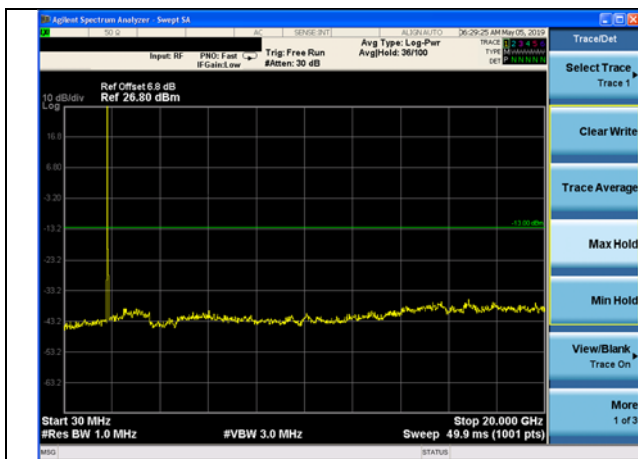


Fig.1

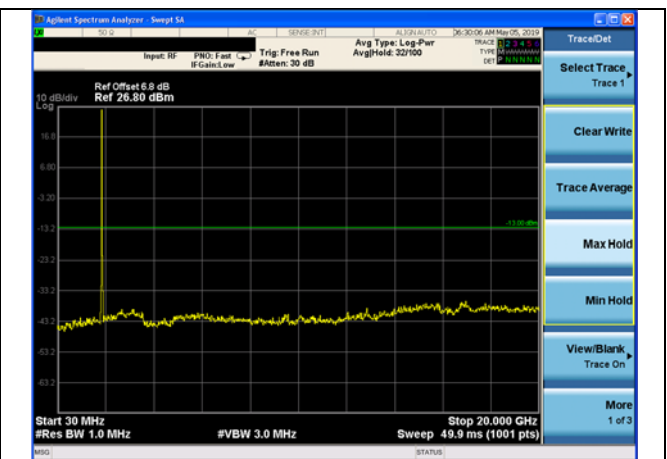


Fig.2

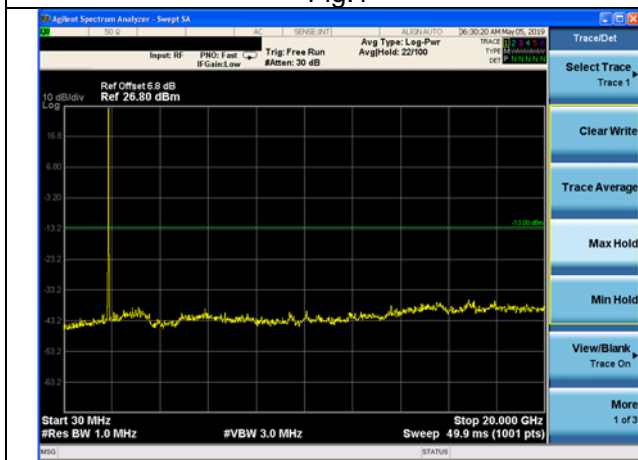


Fig3

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
2	1850.7	18607	1.4	1	0	Fig.1
				6	0	Fig.2
	1909.3	19193		1	5	Fig.3
				6	0	Fig.4
	1851.5	18615	3	1	0	Fig.5
				15	0	Fig.6
	1908.5	19185		1	14	Fig.7
				15	0	Fig.8
	1852.5	18625	5	1	0	Fig.9
				25	0	Fig.10
	1907.5	19175		1	24	Fig.11
				25	0	Fig.12
	1855	18650	10	1	0	Fig.13
				50	0	Fig.14
	1905	19150		1	49	Fig.15
				50	0	Fig.16
	1857.5	18675	15	1	0	Fig.17
				75	0	Fig.18
	1902.5	19125		1	74	Fig.19
				75	0	Fig.20
	1860	18700	20	1	0	Fig.21
				100	0	Fig.22
	1900	19100		1	99	Fig.23
				100	0	Fig.24

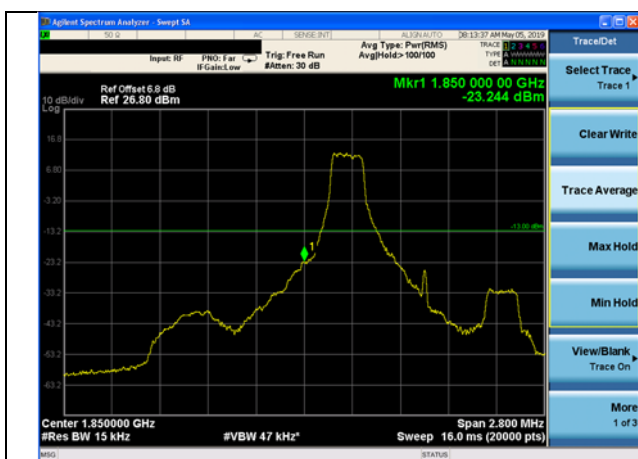


Fig.1

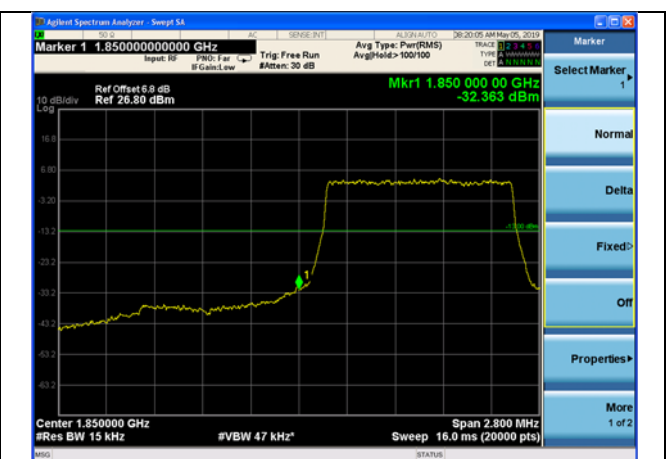


Fig.2

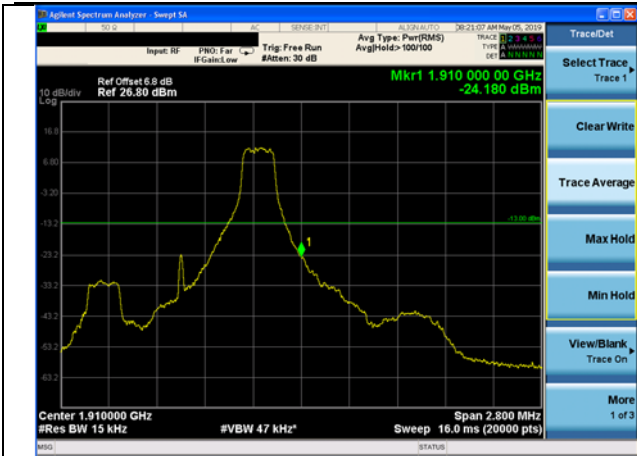


Fig.3

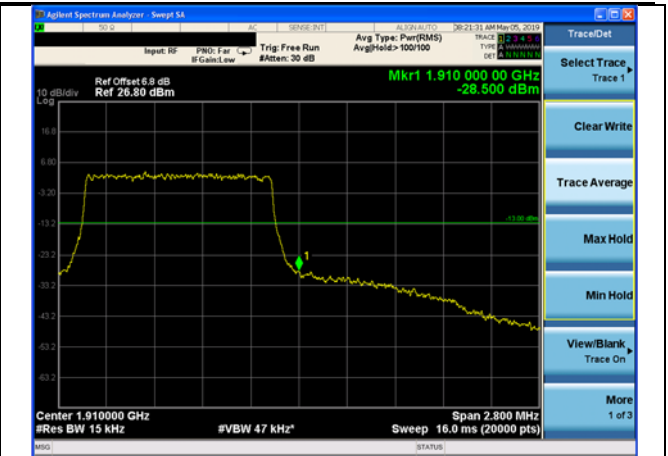


Fig.4

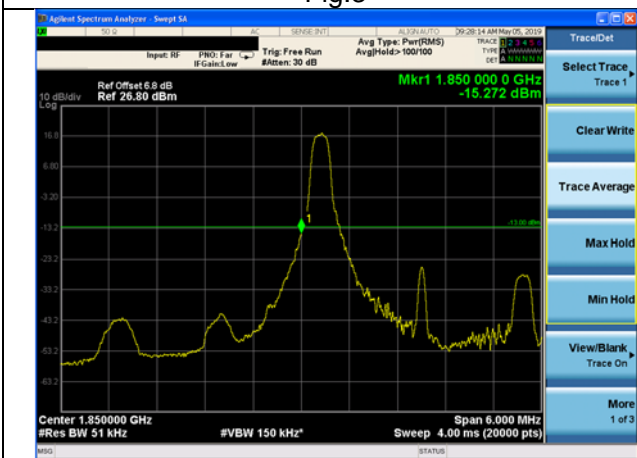


Fig.5

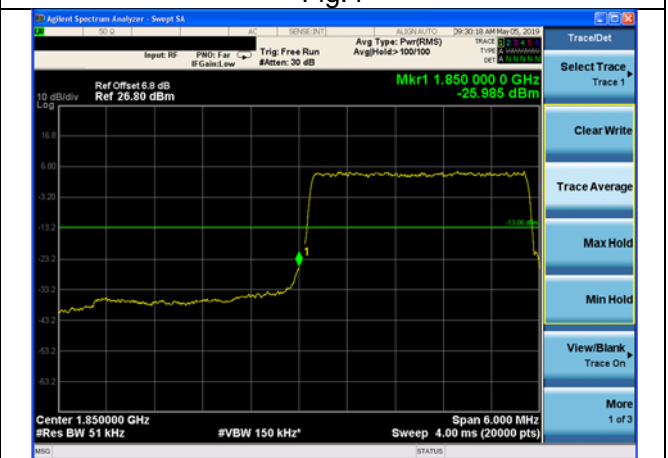


Fig.6

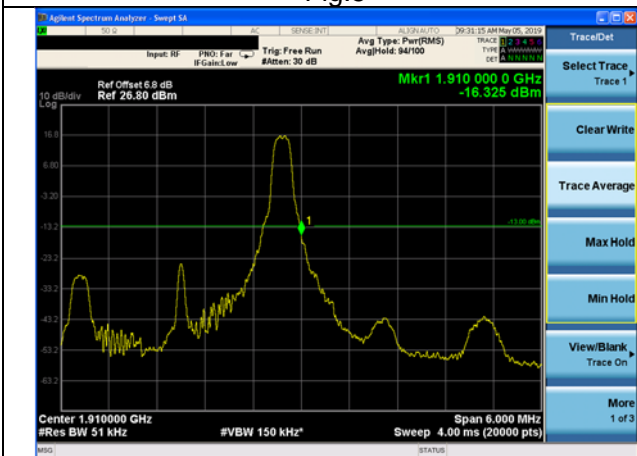


Fig.7



Fig.8

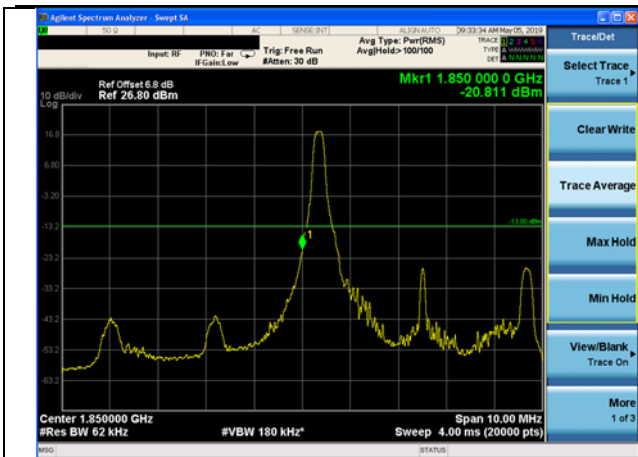


Fig.9

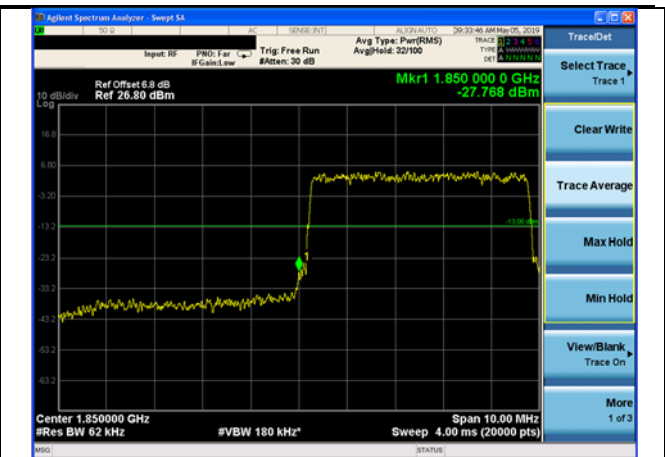


Fig.10

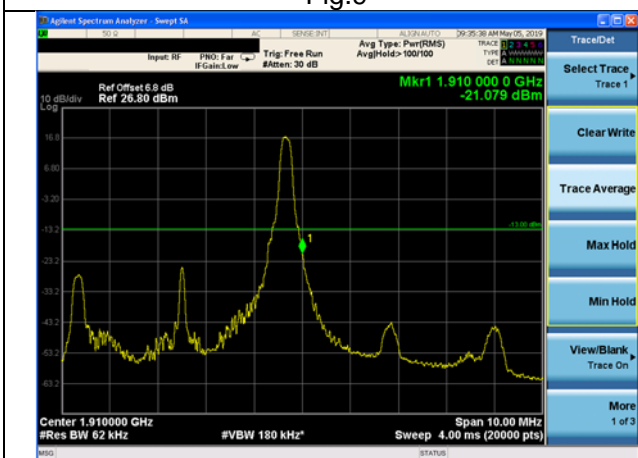


Fig.11

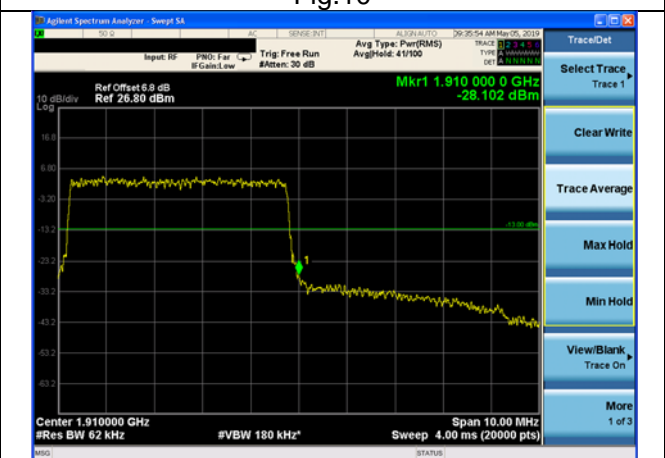


Fig.12

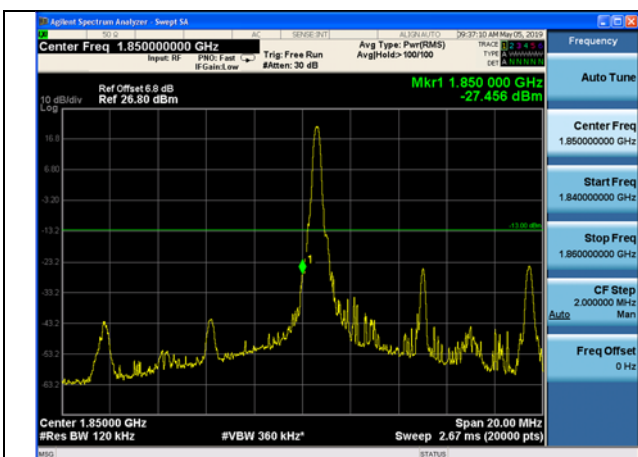


Fig.13

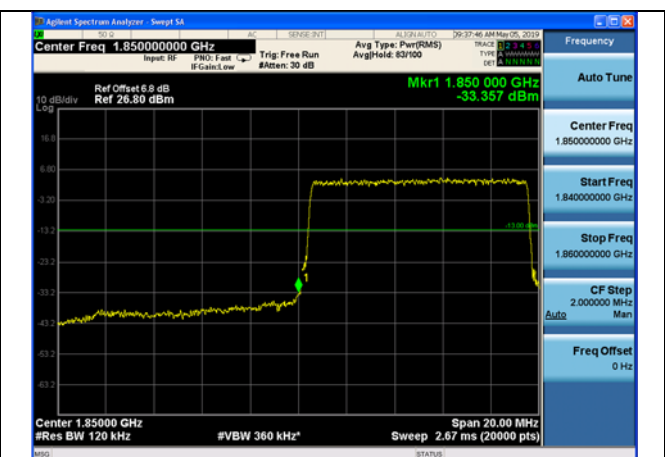


Fig.14

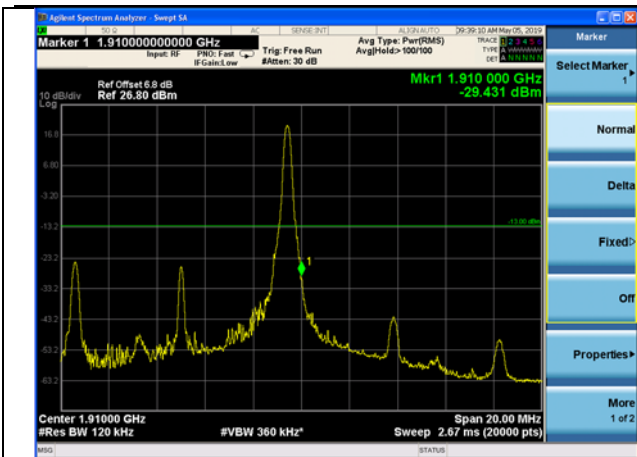


Fig.15

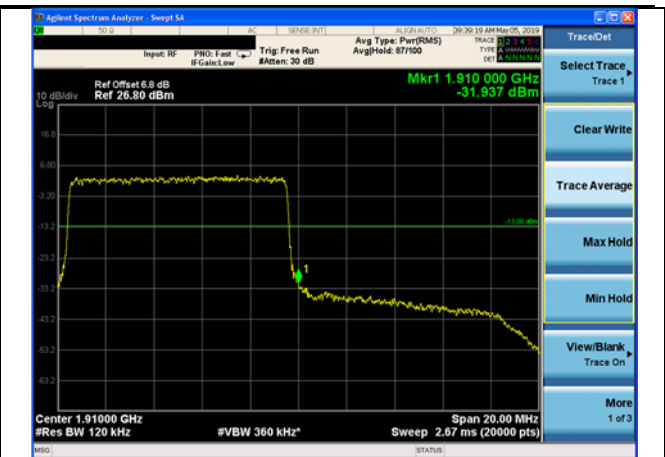


Fig.16

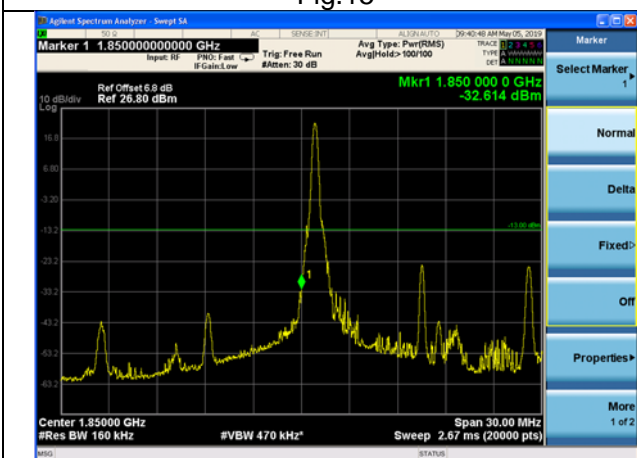


Fig.17

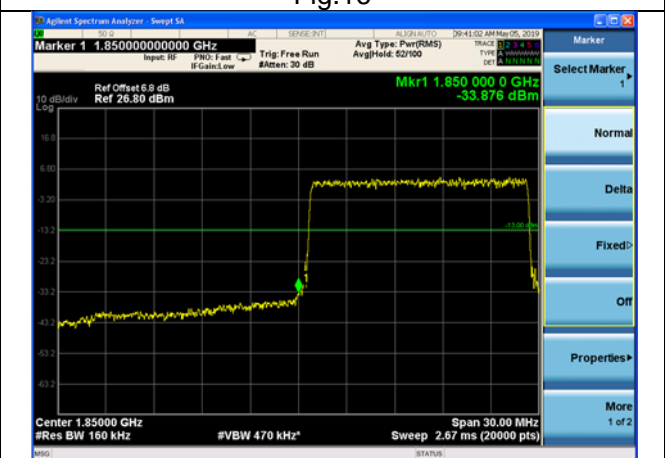


Fig.18

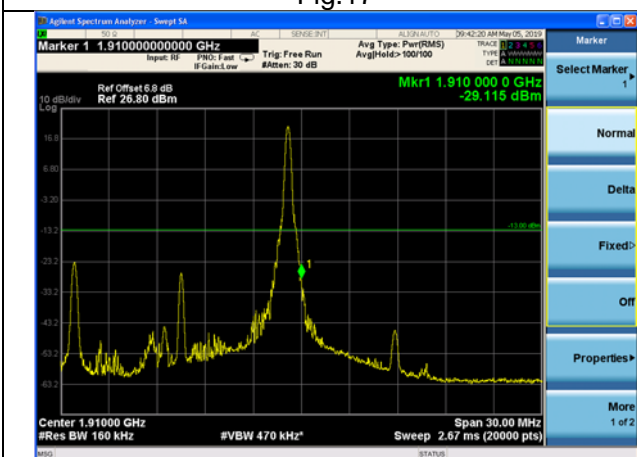


Fig.19

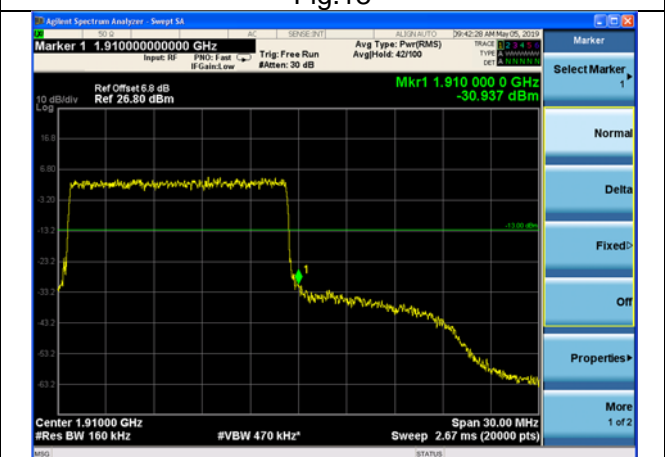


Fig.20

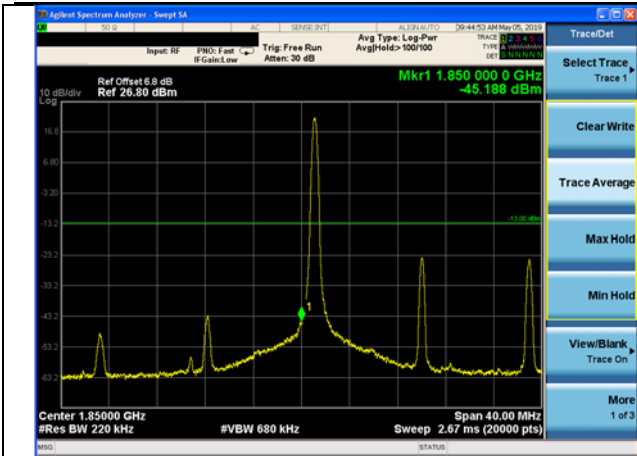


Fig.21

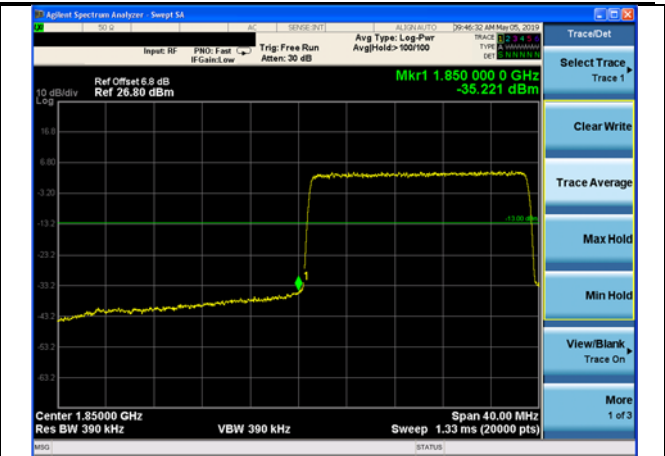


Fig.22

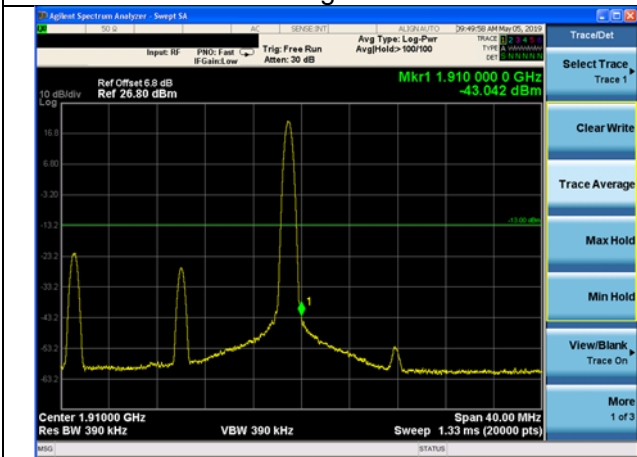


Fig.23

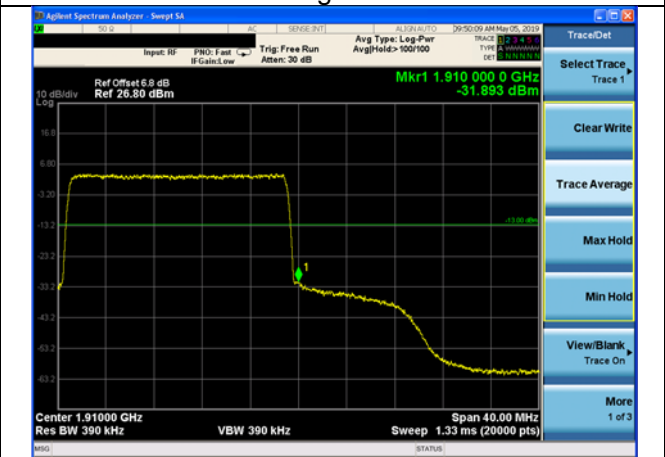


Fig.24

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band2 Low Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.103	0.000	0.023	0.120	0.136	0.096
0	NV	0.004	0.026	0.011	0.110	0.008	0.119
+10	NV	0.021	0.058	0.086	0.029	0.064	0.117
+20	NV	0.015	0.048	0.074	0.042	0.016	0.116
+30	NV	0.103	0.107	0.011	0.065	0.039	0.068
+40	NV	0.067	0.019	0.002	0.119	0.058	0.026
+50	NV	0.065	0.018	0.149	0.019	0.098	0.047
+55	NV	0.033	0.067	0.073	0.007	0.138	0.059
+20	LV	0.044	0.004	0.078	0.068	0.135	0.038
+20	HV	0.095	0.101	0.126	0.086	0.042	0.068

Temperature(°C)	Voltage	Test Result (ppm) Band2 High Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.061	0.089	0.061	0.031	0.032	0.136
0	NV	0.070	0.048	0.105	0.005	0.096	0.158
+10	NV	0.006	0.097	0.147	0.018	0.110	0.002
+20	NV	0.109	0.102	0.089	0.027	0.098	0.067
+30	NV	0.082	0.011	0.092	0.092	0.050	0.111
+40	NV	0.032	0.104	0.053	0.083	0.014	0.151
+50	NV	0.107	0.004	0.108	0.100	0.012	0.111
+55	NV	0.108	0.070	0.085	0.118	0.087	0.049
+20	LV	0.105	0.011	0.088	0.006	0.025	0.054
+20	HV	0.067	0.049	0.067	0.043	0.129	0.087

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	23.98
				1	5	24.00
				3	2	22.47
				6	0	22.29
	1732.5	20175		1	0	23.88
				1	5	23.93
				3	2	22.37
				6	0	22.23
	1754.3	20393		1	0	23.82
				1	5	23.84
				3	2	22.37
				6	0	22.28
16QAM	1710.7	19957	1.4	1	0	23.41
				1	5	23.35
				3	2	21.50
				6	0	21.34
	1732.5	20175		1	0	23.06
				1	5	23.09
				3	2	21.29
				6	0	21.27
	1754.3	20393		1	0	23.12
				1	5	23.09
				3	2	21.43
				6	0	21.28
64QAM	1710.7	19957	1.4	1	0	23.27
				1	5	23.20
				3	2	21.44
				6	0	21.40
	1732.5	20175		1	0	23.21
				1	5	23.19
				3	2	21.36
				6	0	21.25
	1754.3	20393		1	0	22.97
				1	5	23.01
				3	2	21.33
				6	0	21.31

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.97
				1	14	23.95
				8	4	22.47
				15	0	22.32
	1732.5	20175		1	0	23.90
				1	14	23.87
				8	4	22.36
				15	0	22.22
	1753.5	20385		1	0	23.85
				1	14	23.87
				8	4	22.37
				15	0	22.24
16QAM	1711.5	19965	3	1	0	23.44
				1	14	23.43
				8	4	21.52
				15	0	21.42
	1732.5	20175		1	0	23.07
				1	14	23.11
				8	4	21.32
				15	0	21.30
	1753.5	20385		1	0	23.03
				1	14	23.13
				8	4	21.38
				15	0	21.32
64QAM	1711.5	19965	3	1	0	23.22
				1	14	23.24
				8	4	21.46
				15	0	21.35
	1732.5	20175		1	0	23.14
				1	14	23.17
				8	4	21.35
				15	0	21.25
	1753.5	20385		1	0	23.00
				1	14	23.01
				8	4	21.31
				15	0	21.28

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	23.94
				1	24	23.93
				12	6	22.55
				25	0	22.36
	1732.5	20175		1	0	23.94
				1	24	23.91
				12	6	22.39
				25	0	22.28
	1752.5	20375		1	0	23.85
				1	24	23.87
				12	6	22.37
				25	0	22.24
16QAM	1712.5	19975	5	1	0	23.36
				1	24	23.41
				12	6	21.51
				25	0	21.37
	1732.5	20175		1	0	23.09
				1	24	23.15
				12	6	21.35
				25	0	21.27
	1752.5	20375		1	0	23.12
				1	24	23.06
				12	6	21.42
				25	0	21.27
64QAM	1712.5	19975	5	1	0	23.23
				1	24	23.21
				12	6	21.42
				25	0	21.41
	1732.5	20175		1	0	23.19
				1	24	23.19
				12	6	21.32
				25	0	21.29
	1752.5	20375		1	0	22.93
				1	24	23.01
				12	6	21.28
				25	0	21.31

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	23.92
				1	49	23.98
				24	12	22.53
				50	0	22.30
	1732.5	20175		1	0	23.87
				1	49	23.89
				24	12	22.41
				50	0	22.32
	1750	20350		1	0	23.88
				1	49	23.81
				24	12	22.37
				50	0	22.27
16QAM	1715	20000	10	1	0	23.37
				1	49	23.39
				24	12	21.51
				50	0	21.33
	1732.5	20175		1	0	23.14
				1	49	23.10
				24	12	21.35
				50	0	21.27
	1750	20350		1	0	23.09
				1	49	23.06
				24	12	21.41
				50	0	21.31
64QAM	1715	20000	10	1	0	23.27
				1	49	23.21
				24	12	21.49
				50	0	21.39
	1732.5	20175		1	0	23.11
				1	49	23.16
				24	12	21.31
				50	0	21.31
	1750	20350		1	0	23.00
				1	49	22.94
				24	12	21.34
				50	0	21.26

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	23.97
				1	74	23.97
				40	18	22.51
				75	0	22.33
	1732.5	20175		1	0	23.94
				1	74	23.95
				40	18	22.40
				75	0	22.25
	1747.5	20325		1	0	23.83
				1	74	23.87
				40	18	22.29
				75	0	22.27
16QAM	1717.5	20025	15	1	0	23.42
				1	74	23.35
				40	18	21.56
				75	0	21.42
	1732.5	20175		1	0	23.12
				1	74	23.13
				40	18	21.36
				75	0	21.30
	1747.5	20325		1	0	23.10
				1	74	23.07
				40	18	21.45
				75	0	21.25
64QAM	1717.5	20025	15	1	0	23.26
				1	74	23.25
				40	18	21.50
				75	0	21.41
	1732.5	20175		1	0	23.13
				1	74	23.19
				40	18	21.35
				75	0	21.29
	1747.5	20325		1	0	22.97
				1	74	23.00
				40	18	21.31
				75	0	21.33

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	23.99
				1	99	23.99
				50	25	22.46
				100	0	22.37
	1732.5	20175		1	0	23.95
				1	99	23.95
				50	25	22.43
				100	0	22.32
	1745	20300		1	0	23.89
				1	99	23.89
				50	25	22.38
				100	0	22.29
16QAM	1720	20050	20	1	0	23.44
				1	99	23.44
				50	25	21.58
				100	0	21.43
	1732.5	20175		1	0	23.16
				1	99	23.16
				50	25	21.38
				100	0	21.31
	1745	20300		1	0	23.13
				1	99	23.13
				50	25	21.46
				100	0	21.35
64QAM	1720	20050	20	1	0	23.29
				1	99	23.29
				50	25	21.51
				100	0	21.43
	1732.5	20175		1	0	23.21
				1	99	23.21
				50	25	21.38
				100	0	21.32
	1745	20300		1	0	23.03
				1	99	23.03
				50	25	21.36
				100	0	21.35

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	
4	1710.7	19957	1.4	6	0	1.08	Fig.1	1.07	Fig.2	1.08	Fig.3
	1732.5	20175		6	0	1.08	Fig.4	1.08	Fig.5	1.08	Fig.6
	1754.3	20393		6	0	1.08	Fig.7	1.07	Fig.8	1.08	Fig.9
	1711.5	19965	3	15	0	2.70	Fig.10	2.69	Fig.11	2.70	Fig.12
	1732.5	20175		15	0	2.70	Fig.13	2.70	Fig.14	2.69	Fig.15
	1753.5	20385		15	0	2.69	Fig.16	2.70	Fig.17	2.69	Fig.18
	1712.5	19975	5	25	0	4.47	Fig.19	4.45	Fig.20	4.48	Fig.21
	1732.5	20175		25	0	4.47	Fig.22	4.47	Fig.23	4.48	Fig.24
	1752.5	20375		25	0	4.47	Fig.25	4.47	Fig.26	4.47	Fig.27
	1715	20000	10	50	0	9.00	Fig.28	9.02	Fig.29	9.01	Fig.30
	1732.5	20175		50	0	9.03	Fig.31	9.04	Fig.32	9.03	Fig.33
	1750	20350		50	0	9.05	Fig.34	8.98	Fig.35	9.00	Fig.36
	1717.5	20025	15	75	0	13.37	Fig.37	13.38	Fig.38	13.37	Fig.39
	1732.5	20175		75	0	13.44	Fig.40	13.42	Fig.41	13.42	Fig.42
	1747.5	20325		75	0	13.38	Fig.43	13.40	Fig.44	13.36	Fig.45
	1720	20050	20	100	0	17.86	Fig.46	17.84	Fig.47	17.86	Fig.48
	1732.5	20175		100	0	17.90	Fig.49	17.92	Fig.50	17.88	Fig.51
	1745	20300		100	0	17.89	Fig.52	17.88	Fig.53	17.87	Fig.54

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1710.7	19957	1.4	6	0	1.21	Fig.1	1.21	Fig.2	1.21	Fig.3
	1732.5	20175		6	0	1.22	Fig.4	1.20	Fig.5	1.21	Fig.6
	1754.3	20393		6	0	1.22	Fig.7	1.20	Fig.8	1.20	Fig.9
	1711.5	19965	3	15	0	2.98	Fig.10	2.93	Fig.11	2.90	Fig.12
	1732.5	20175		15	0	3.00	Fig.13	2.92	Fig.14	2.95	Fig.15
	1753.5	20385		15	0	2.97	Fig.16	2.98	Fig.17	2.52	Fig.18
	1712.5	19975	5	25	0	4.88	Fig.19	4.84	Fig.20	4.84	Fig.21
	1732.5	20175		25	0	4.90	Fig.22	4.87	Fig.23	4.83	Fig.24
	1752.5	20375		25	0	4.81	Fig.25	4.88	Fig.26	4.74	Fig.27
	1715	20000	10	50	0	9.76	Fig.28	9.68	Fig.29	9.82	Fig.30
	1732.5	20175		50	0	9.74	Fig.31	9.80	Fig.32	9.62	Fig.33
	1750	20350		50	0	9.75	Fig.34	9.70	Fig.35	9.72	Fig.36
	1717.5	20025	15	75	0	14.25	Fig.37	14.25	Fig.38	14.34	Fig.39
	1732.5	20175		75	0	14.29	Fig.40	14.14	Fig.41	14.42	Fig.42
	1747.5	20325		75	0	14.22	Fig.43	14.10	Fig.44	13.98	Fig.45
	1720	20050	20	100	0	19.18	Fig.46	19.01	Fig.47	18.92	Fig.48
	1732.5	20175		100	0	19.29	Fig.49	19.05	Fig.50	19.12	Fig.51
	1745	20300		100	0	19.28	Fig.52	19.13	Fig.53	19.25	Fig.54

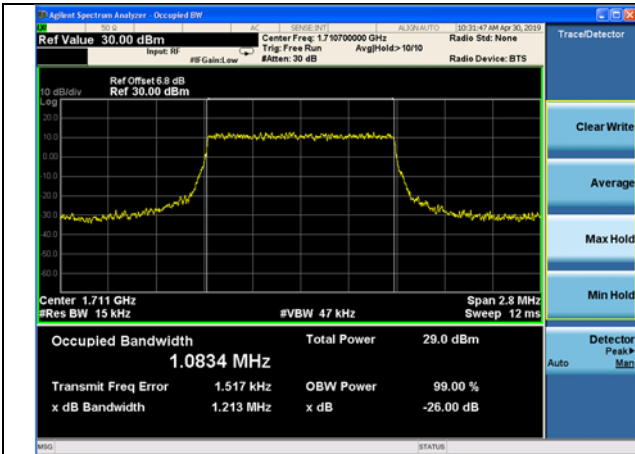


Fig.1

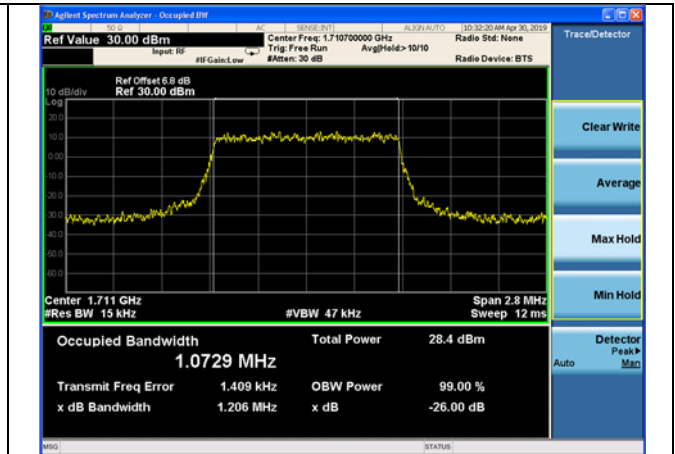


Fig.2

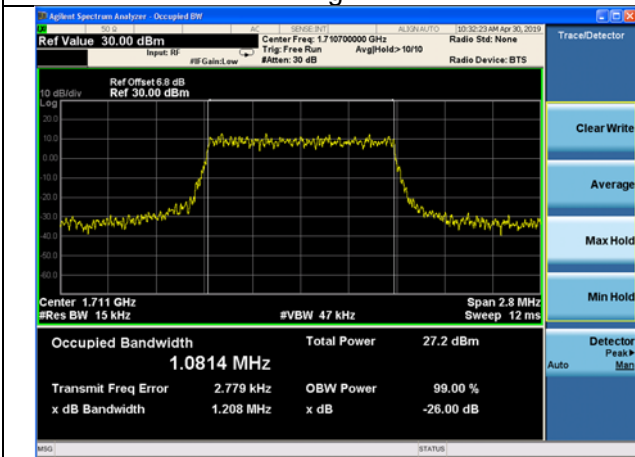


Fig.3

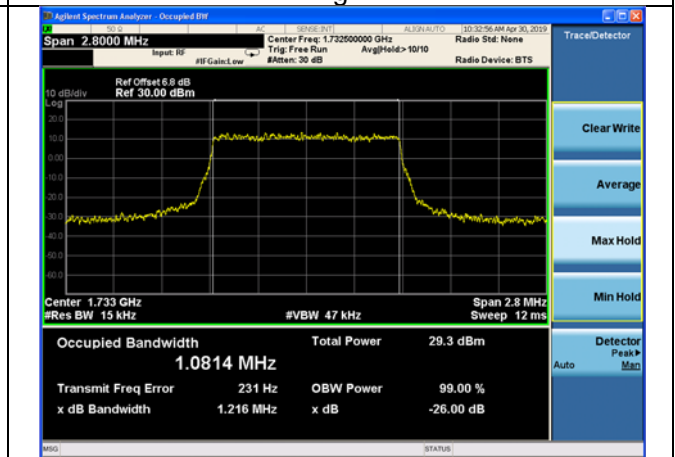


Fig.4

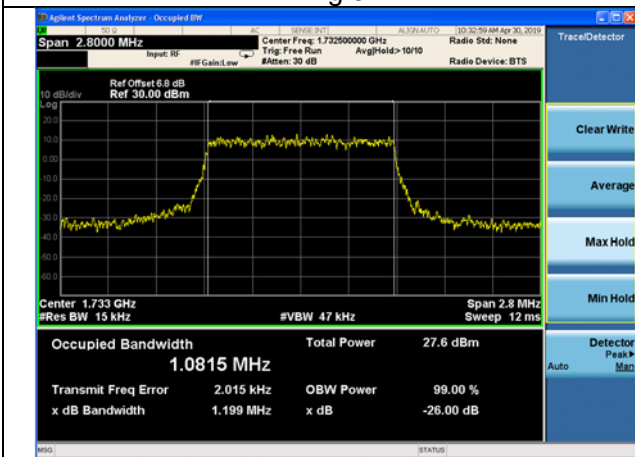


Fig.5

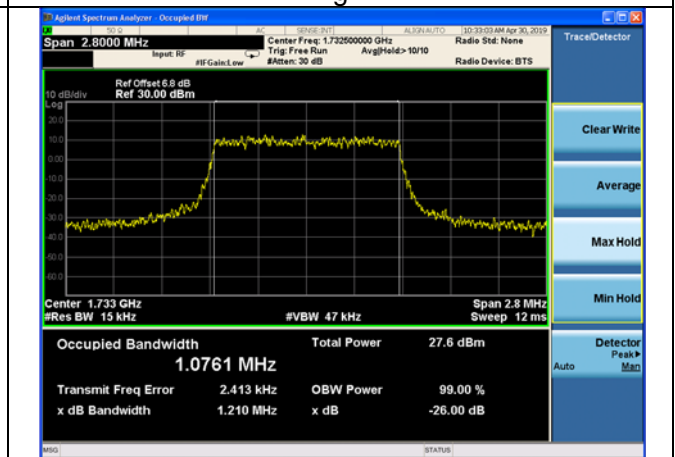


Fig.6

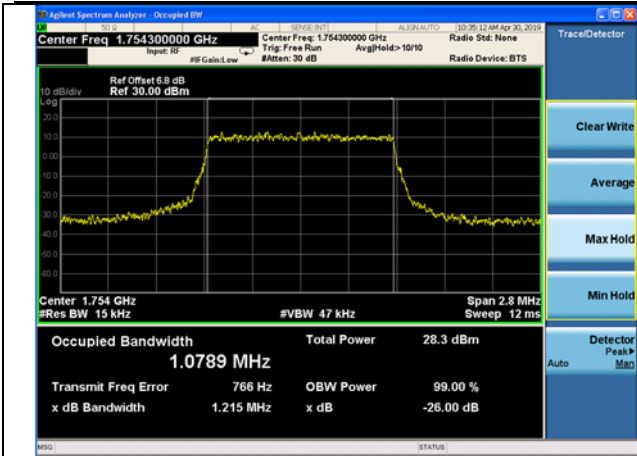


Fig.7

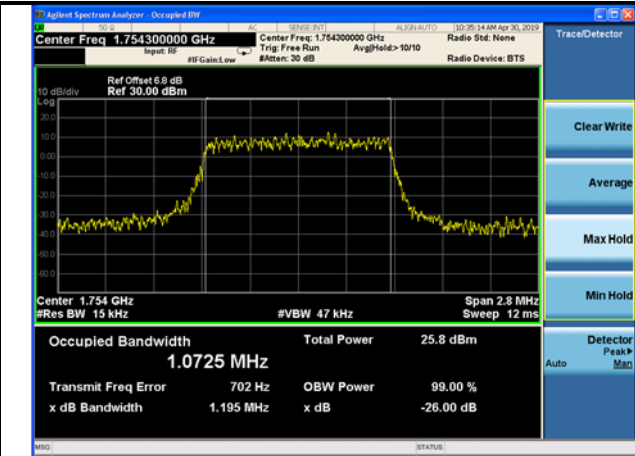


Fig.8

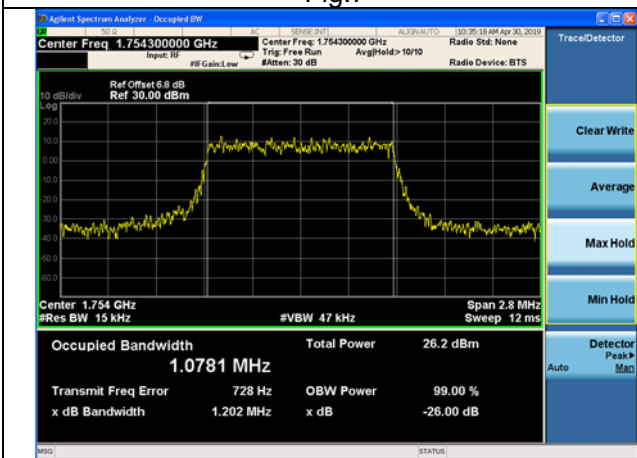


Fig.9

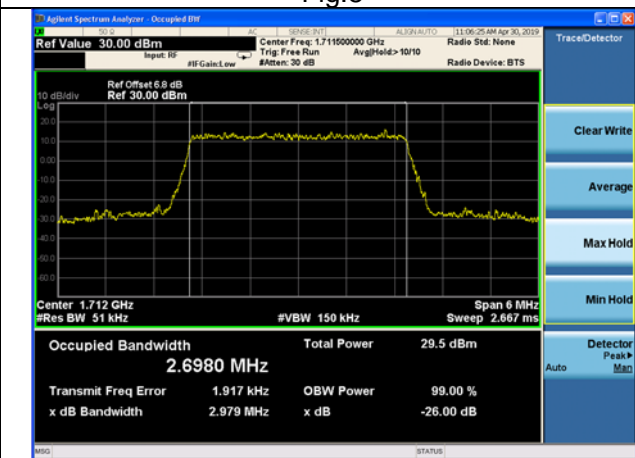


Fig.10

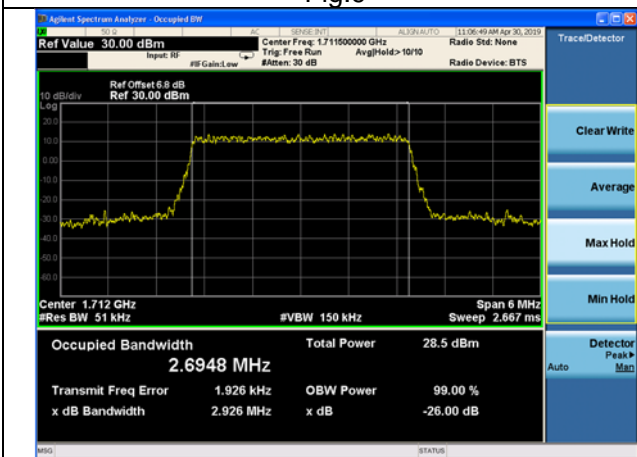


Fig.11

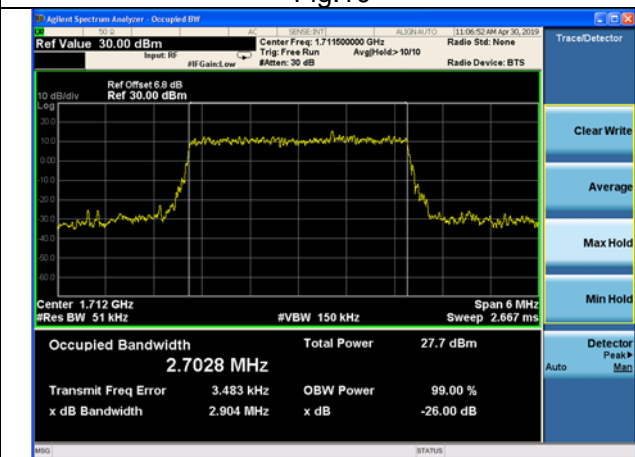


Fig.12

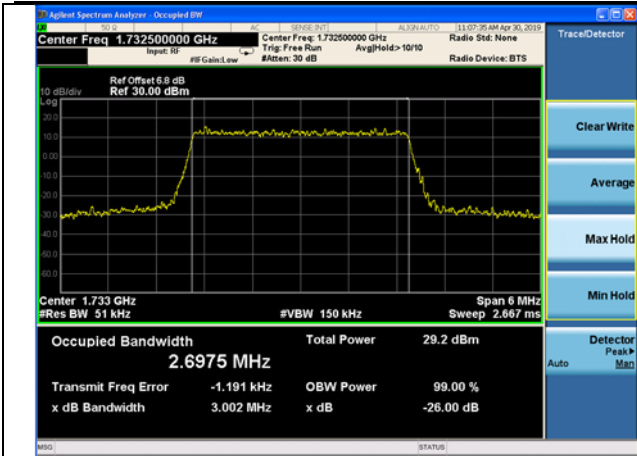


Fig.13

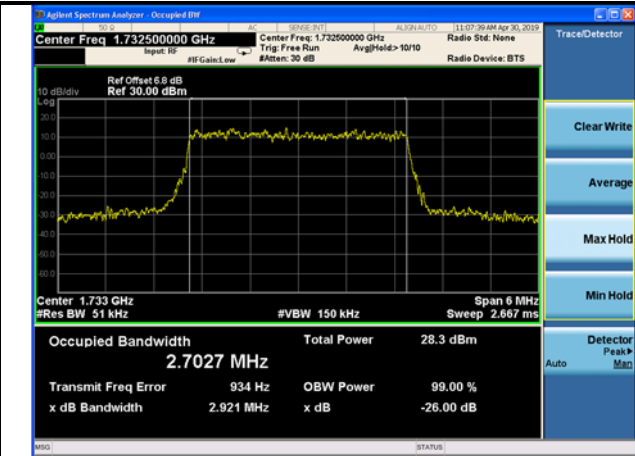


Fig.14

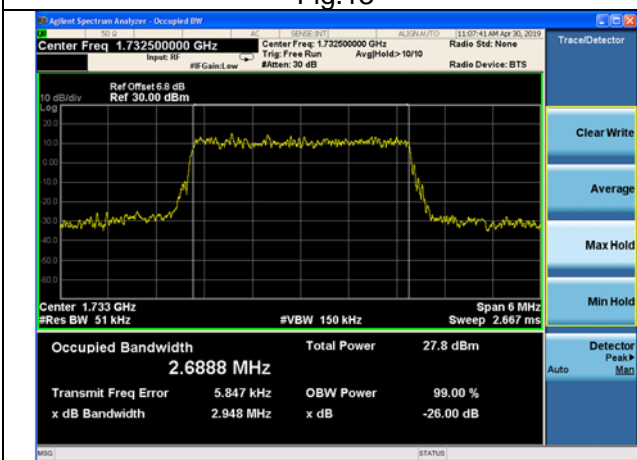


Fig.15

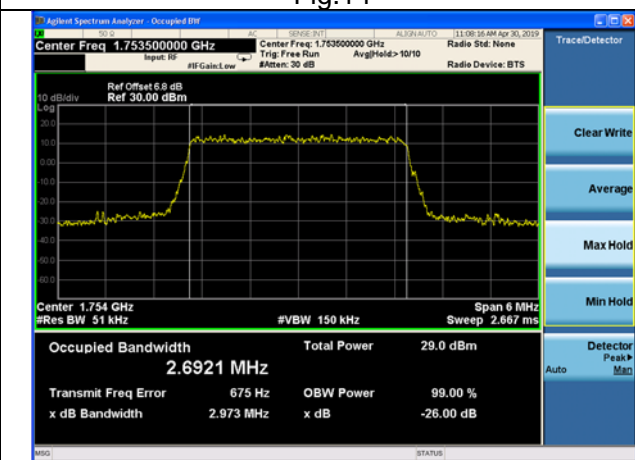


Fig.16

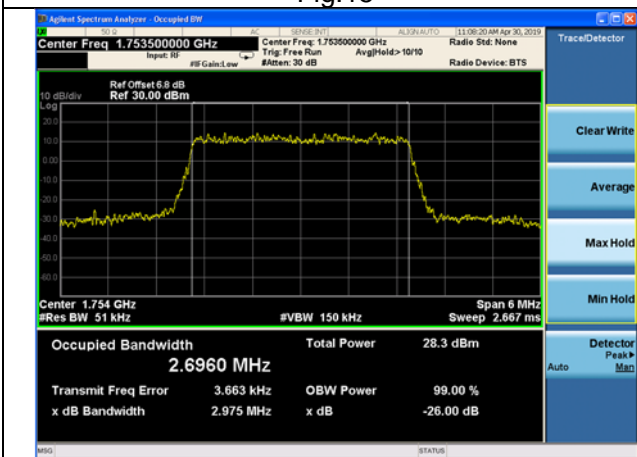


Fig.17

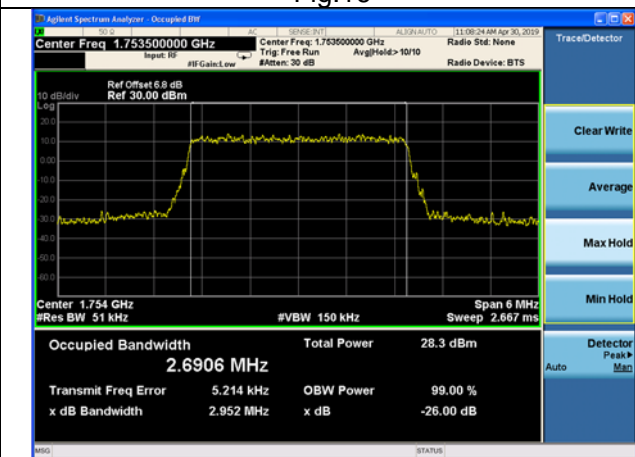


Fig.18

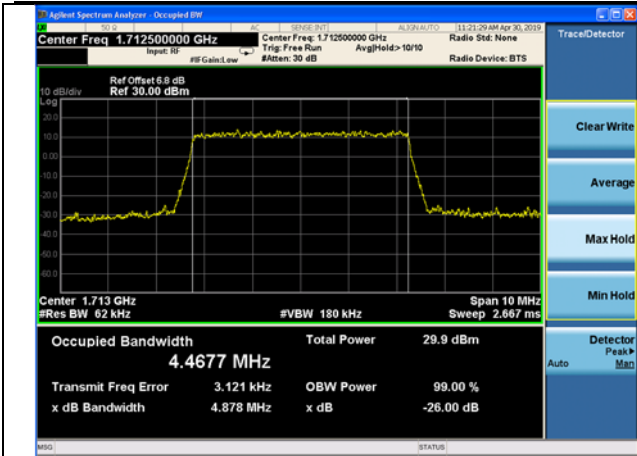


Fig.19

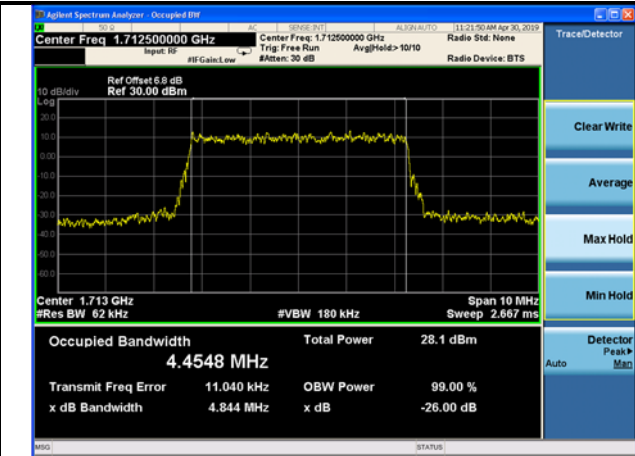


Fig.20

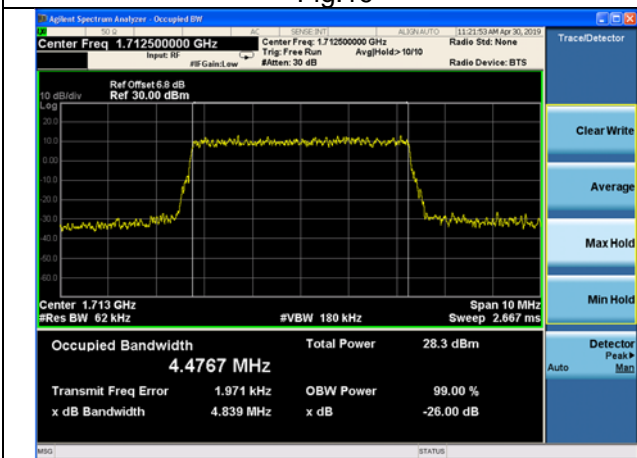


Fig.21

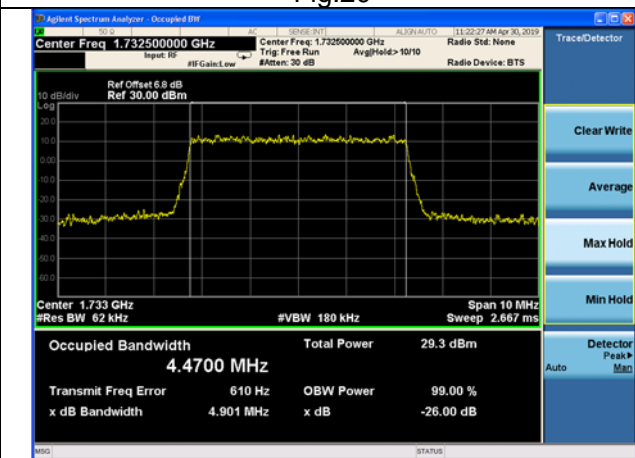


Fig.22

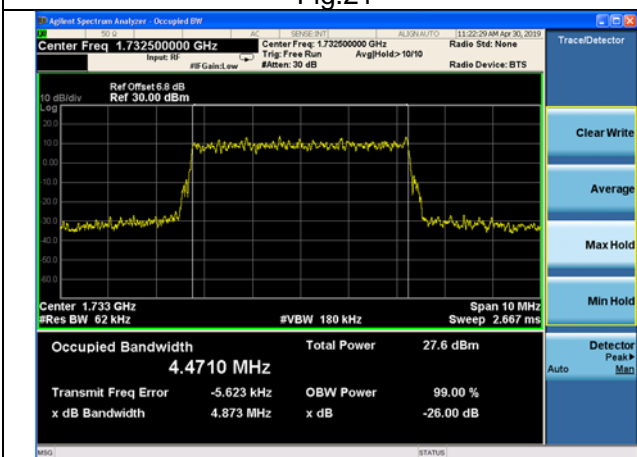


Fig.23

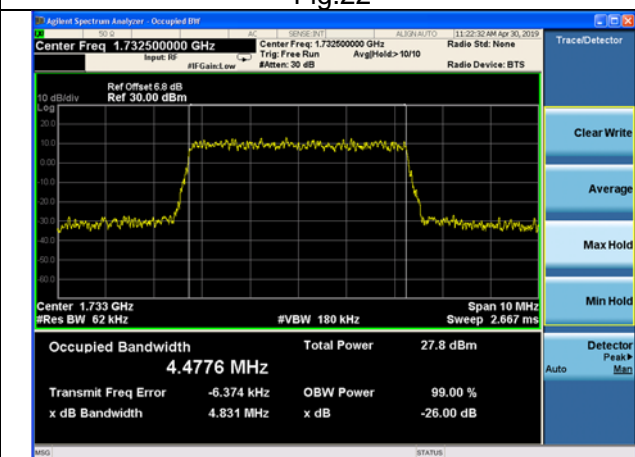


Fig.24