

Fig.11

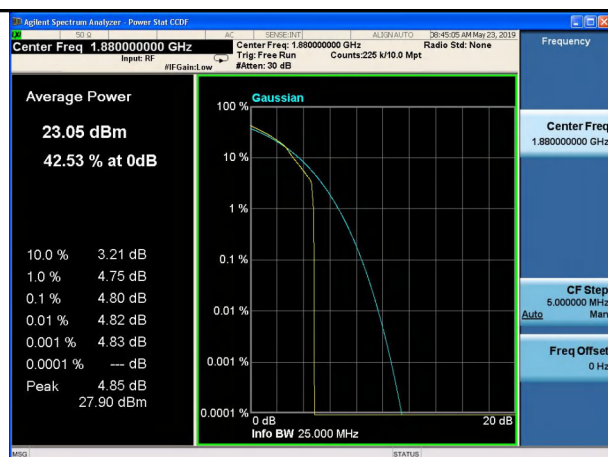


Fig.12

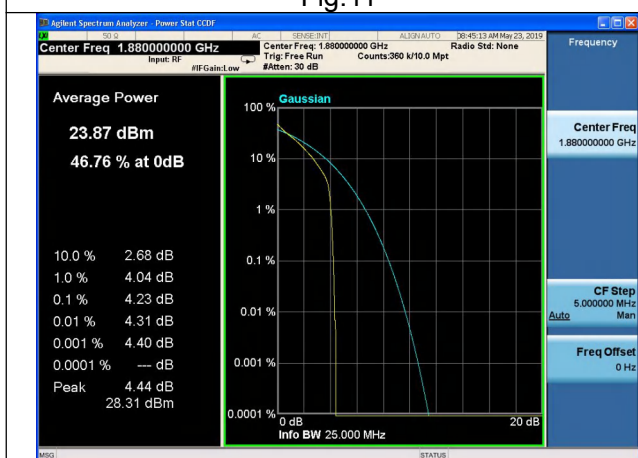


Fig.13



Fig.14

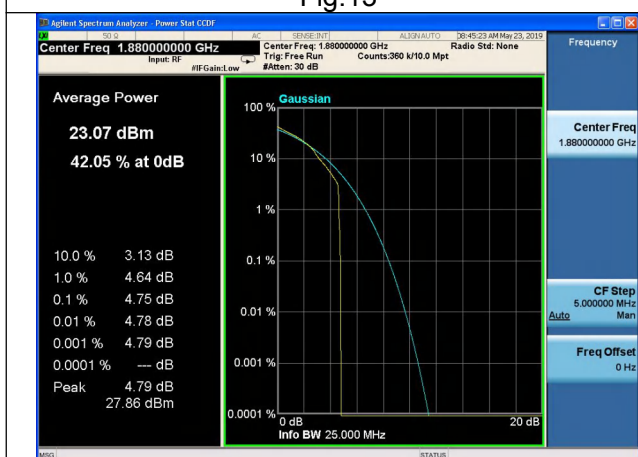


Fig.15



Fig.16

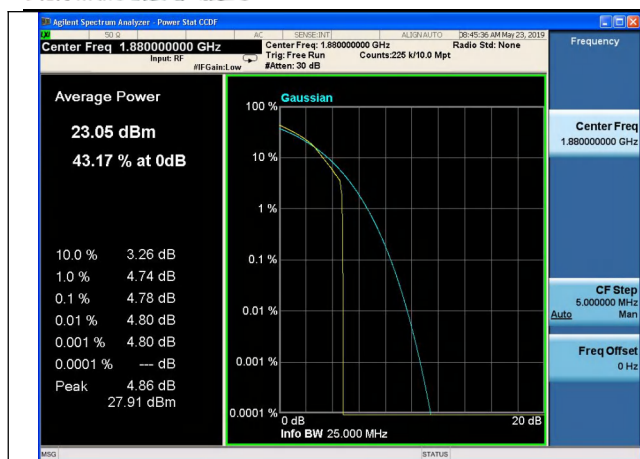


Fig.17

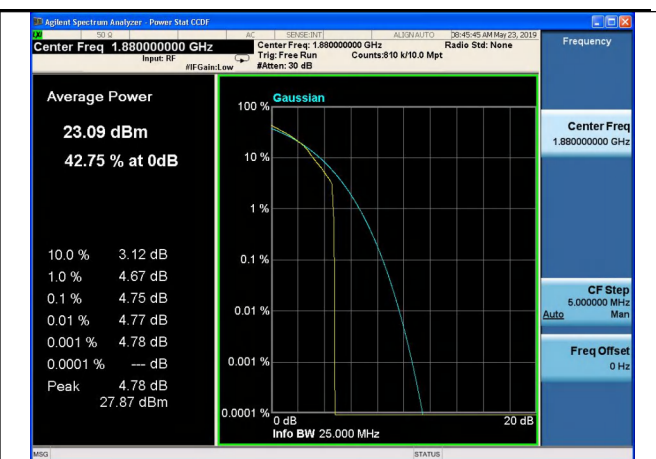


Fig.18

#### 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

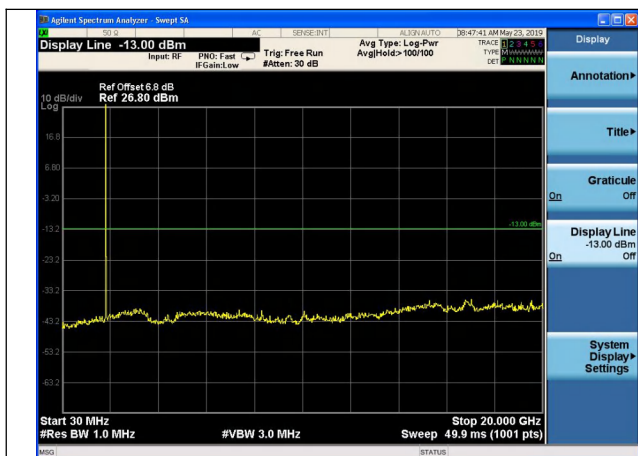


Fig.1



Fig.2

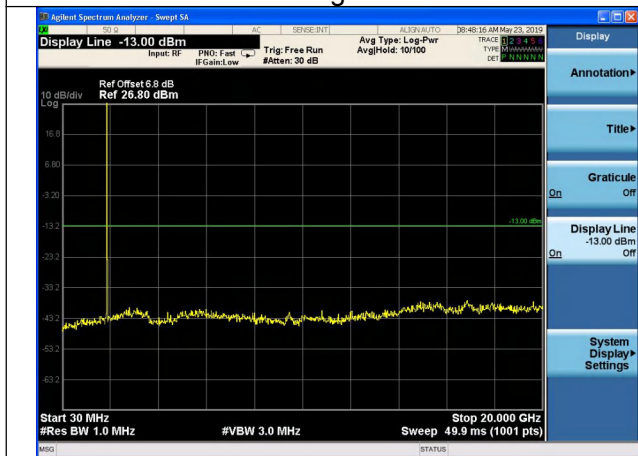


Fig.3

### 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	

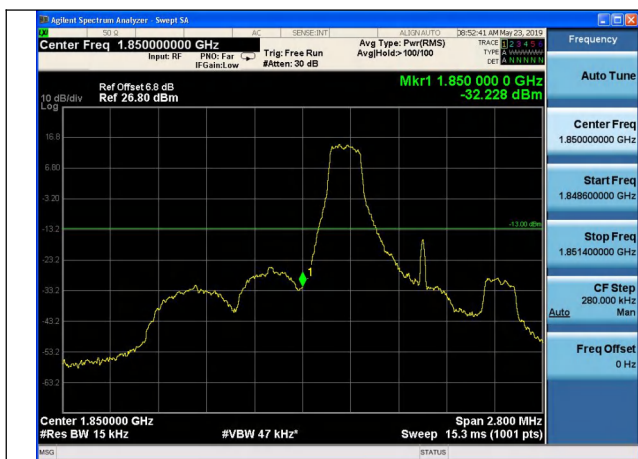


Fig.1



Fig.2

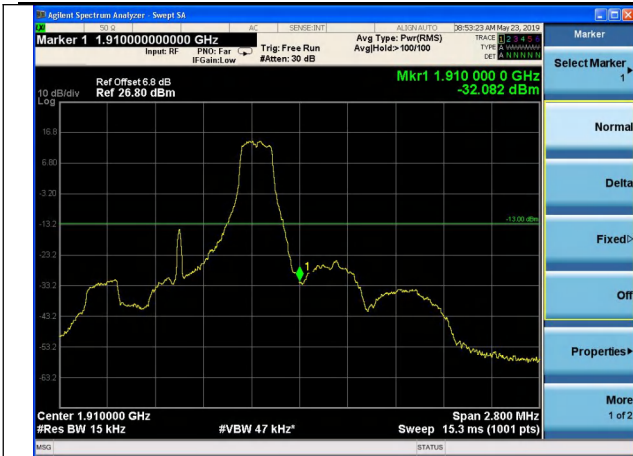


Fig.3



Fig.4

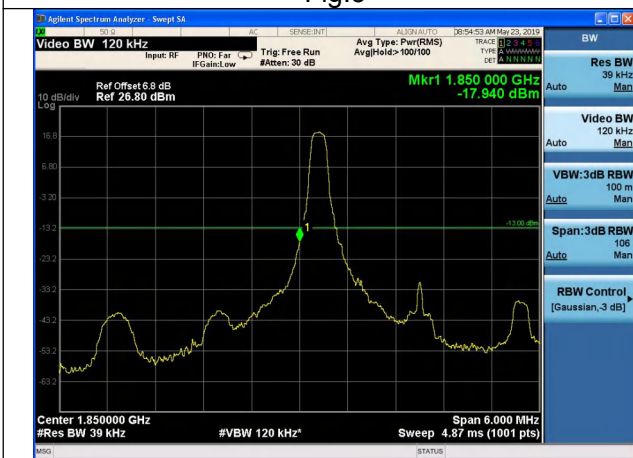


Fig.5



Fig.6

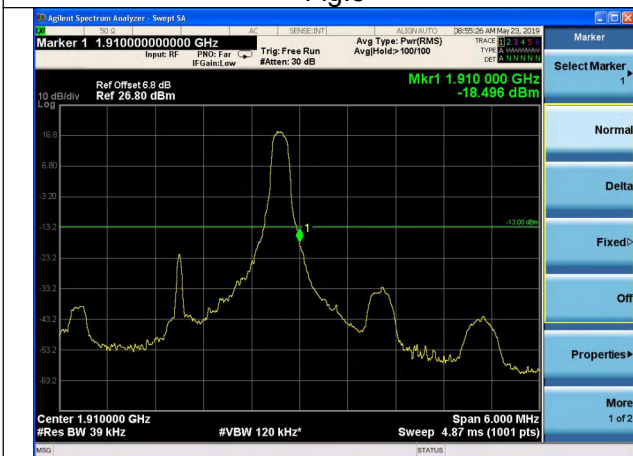


Fig.7



Fig.8



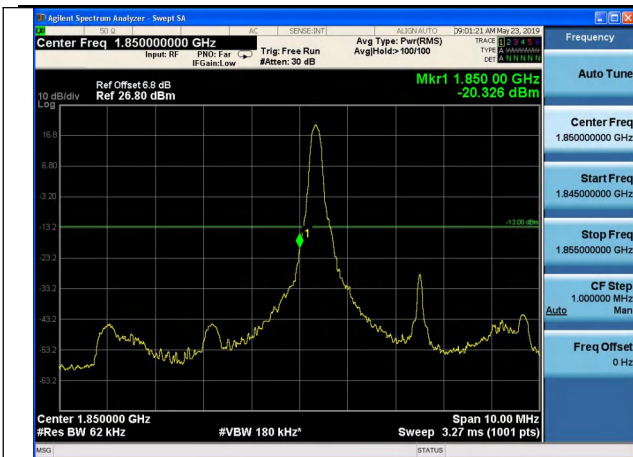


Fig.9



Fig.10

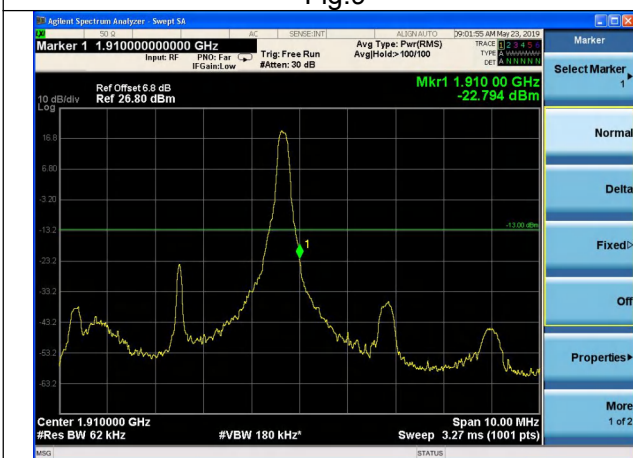


Fig.11



Fig.12

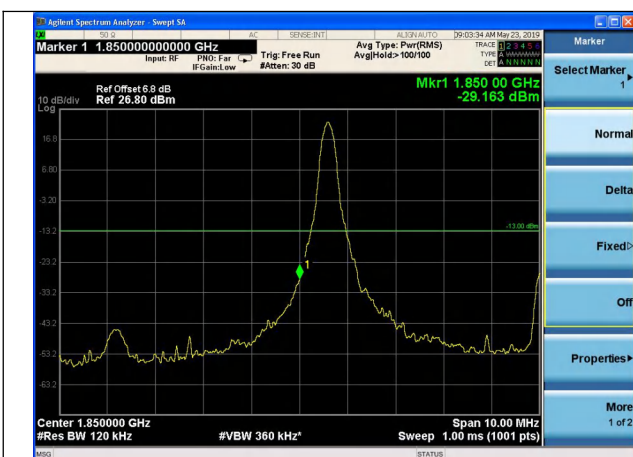


Fig.13



Fig.14

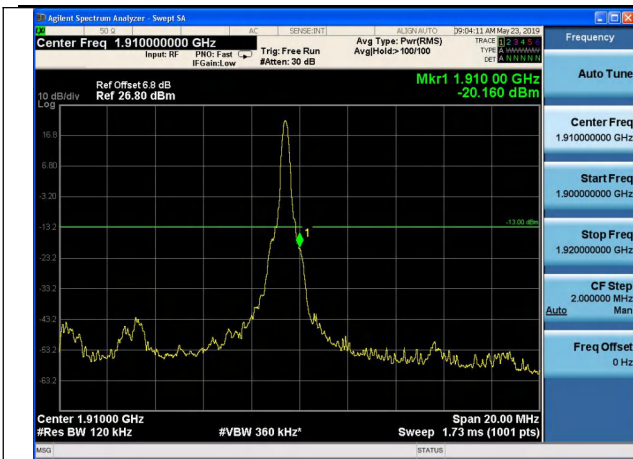


Fig.15

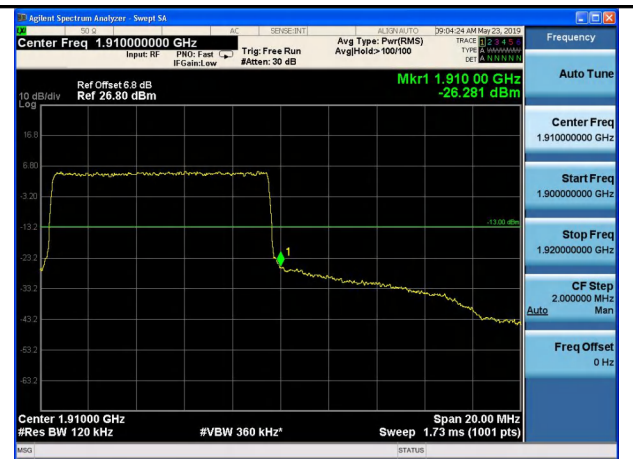


Fig.16

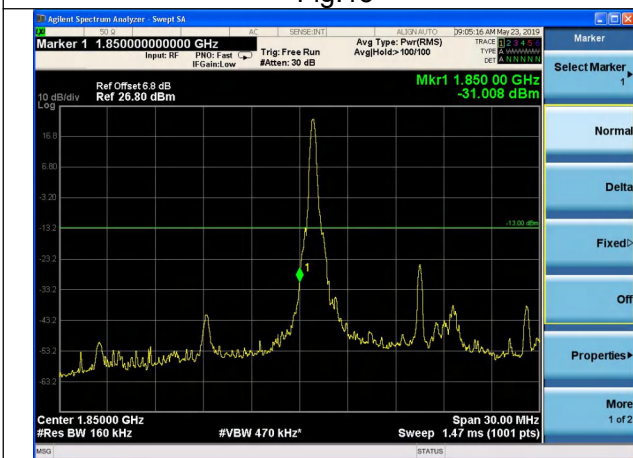


Fig.17



Fig.18

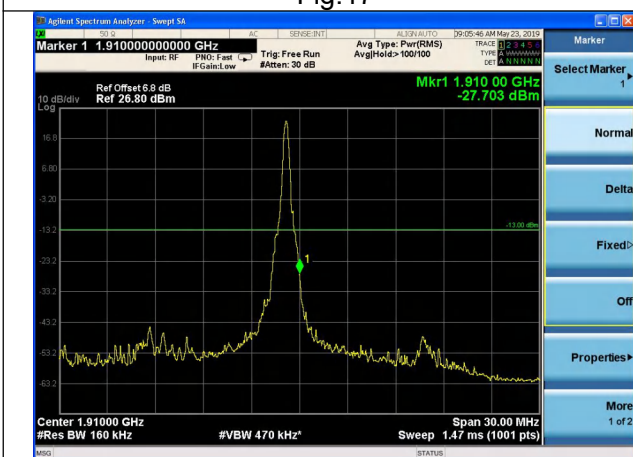


Fig.19



Fig.20

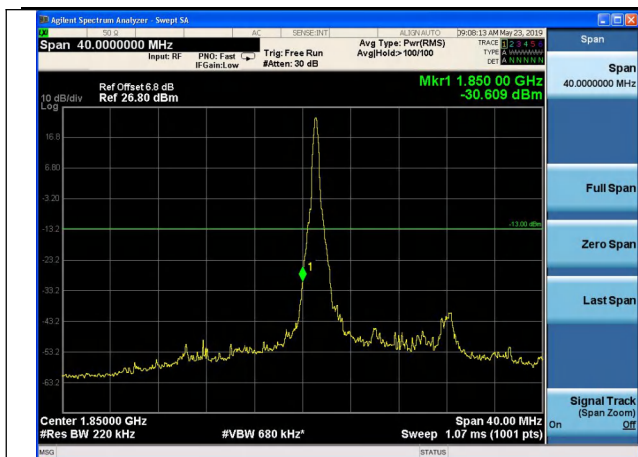


Fig.21



Fig.22

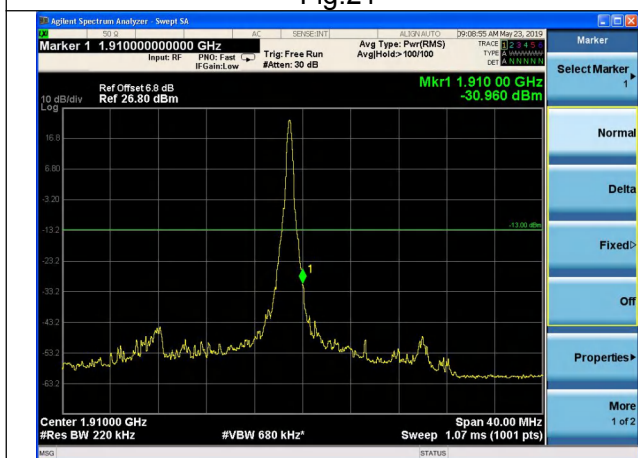


Fig.23

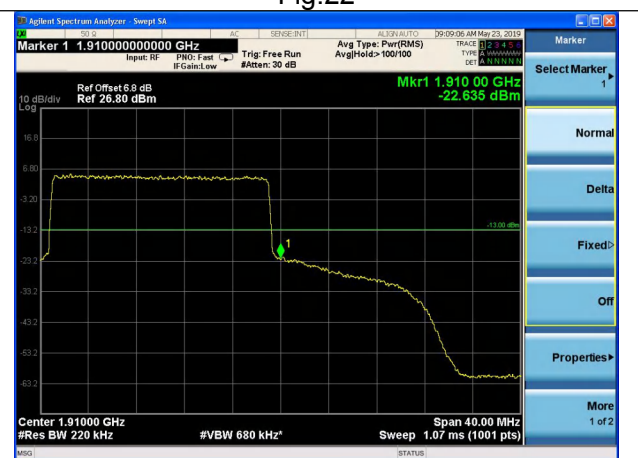


Fig.24



## 6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band2 Low Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.087	0.072	0.028	0.053	0.077	0.037
0	NV	0.043	0.082	0.091	0.025	0.046	0.019
+10	NV	0.036	0.079	0.070	0.023	0.062	0.076
+20	NV	0.088	0.055	0.067	0.059	0.086	0.018
+30	NV	0.007	0.016	0.096	0.064	0.078	0.085
+40	NV	0.072	0.079	0.011	0.074	0.022	0.100
+50	NV	0.081	0.067	0.093	0.049	0.021	0.076
+55	NV	0.082	0.021	0.014	0.010	0.077	0.075
+20	LV	0.070	0.049	0.053	0.022	0.067	0.073
+20	HV	0.043	0.096	0.054	0.085	0.058	0.012

Temperature(°C)	Voltage	Test Result (ppm) Band2 High Channel					
		1.4M	3M	5M	10M	15M	20M
-10	NV	0.052	0.064	0.093	0.036	0.040	0.057
0	NV	0.081	0.015	0.007	0.066	0.055	0.094
+10	NV	0.051	0.044	0.047	0.027	0.075	0.009
+20	NV	0.085	0.020	0.001	0.026	0.003	0.045
+30	NV	0.004	0.085	0.096	0.072	0.059	0.009
+40	NV	0.009	0.025	0.001	0.062	0.014	0.005
+50	NV	0.055	0.083	0.098	0.031	0.082	0.020
+55	NV	0.035	0.045	0.014	0.047	0.040	0.087
+20	LV	0.089	0.031	0.028	0.050	0.051	0.016
+20	HV	0.017	0.015	0.063	0.018	0.021	0.037

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

LTE Band 4

1 RF Power Output up Ant

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1710.7	19957	1.4	1	0	17.48
				1	5	17.48
				3	2	16.53
				6	0	16.48
	1732.5	20175		1	0	17.63
				1	5	17.63
				3	2	16.51
				6	0	16.48
	1754.3	20393		1	0	17.55
				1	5	17.55
				3	2	16.53
				6	0	16.50
16QAM	1710.7	19957	1.4	1	0	17.03
				1	5	17.03
				3	2	15.58
				6	0	15.54
	1732.5	20175		1	0	16.97
				1	5	16.97
				3	2	15.54
				6	0	15.50
	1754.3	20393		1	0	17.08
				1	5	17.08
				3	2	15.57
				6	0	15.50
64QAM	1710.7	19957	1.4	1	0	17.01
				1	5	17.01
				3	2	15.58
				6	0	15.50
	1732.5	20175		1	0	16.95
				1	5	16.95
				3	2	15.53
				6	0	15.49
	1754.3	20393		1	0	17.05
				1	5	17.05
				3	2	15.57
				6	0	15.48

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	17.52
				1	14	17.52
				8	4	16.57
				15	0	16.52
	1732.5	20175		1	0	17.67
				1	14	17.67
				8	4	16.55
				15	0	16.52
	1753.5	20385		1	0	17.59
				1	14	17.59
				8	4	16.57
				15	0	16.54
16QAM	1711.5	19965	3	1	0	17.07
				1	14	17.07
				8	4	15.62
				15	0	15.58
	1732.5	20175		1	0	17.01
				1	14	17.01
				8	4	15.58
				15	0	15.54
	1753.5	20385		1	0	17.12
				1	14	17.12
				8	4	15.61
				15	0	15.54
64QAM	1711.5	19965	3	1	0	17.05
				1	14	17.05
				8	4	15.62
				15	0	15.54
	1732.5	20175		1	0	16.99
				1	14	16.99
				8	4	15.57
				15	0	15.53
	1753.5	20385		1	0	17.09
				1	14	17.09
				8	4	15.61
				15	0	15.52

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	17.54
				1	24	17.54
				12	6	16.59
				25	0	16.54
	1732.5	20175		1	0	17.69
				1	24	17.69
				12	6	16.57
				25	0	16.54
	1752.5	20375		1	0	17.61
				1	24	17.61
				12	6	16.59
				25	0	16.56
16QAM	1712.5	19975	5	1	0	17.09
				1	24	17.09
				12	6	15.64
				25	0	15.60
	1732.5	20175		1	0	17.03
				1	24	17.03
				12	6	15.60
				25	0	15.56
	1752.5	20375		1	0	17.14
				1	24	17.14
				12	6	15.63
				25	0	15.56
64QAM	1712.5	19975	5	1	0	17.07
				1	24	17.07
				12	6	15.64
				25	0	15.56
	1732.5	20175		1	0	17.01
				1	24	17.01
				12	6	15.59
				25	0	15.55
	1752.5	20375		1	0	17.11
				1	24	17.11
				12	6	15.63
				25	0	15.54



Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	17.56
				1	49	17.56
				24	12	16.61
				50	0	16.56
	1732.5	20175		1	0	17.71
				1	49	17.71
				24	12	16.59
				50	0	16.56
	1750	20350		1	0	17.63
				1	49	17.63
				24	12	16.61
				50	0	16.58
16QAM	1715	20000	10	1	0	17.11
				1	49	17.11
				24	12	15.66
				50	0	15.62
	1732.5	20175		1	0	17.05
				1	49	17.05
				24	12	15.62
				50	0	15.58
	1750	20350		1	0	17.16
				1	49	17.16
				24	12	15.65
				50	0	15.58
64QAM	1715	20000	10	1	0	17.09
				1	49	17.09
				24	12	15.66
				50	0	15.58
	1732.5	20175		1	0	17.03
				1	49	17.03
				24	12	15.61
				50	0	15.57
	1750	20350		1	0	17.13
				1	49	17.13
				24	12	15.65
				50	0	15.56

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	17.58
				1	74	17.58
				40	18	16.63
				75	0	16.58
	1732.5	20175		1	0	17.73
				1	74	17.73
				40	18	16.61
				75	0	16.58
	1747.5	20325		1	0	17.65
				1	74	17.65
				40	18	16.63
				75	0	16.60
16QAM	1717.5	20025	15	1	0	17.13
				1	74	17.13
				40	18	15.68
				75	0	15.64
	1732.5	20175		1	0	17.07
				1	74	17.07
				40	18	15.64
				75	0	15.60
	1747.5	20325		1	0	17.18
				1	74	17.18
				40	18	15.67
				75	0	15.60
64QAM	1717.5	20025	15	1	0	17.11
				1	74	17.11
				40	18	15.68
				75	0	15.60
	1732.5	20175		1	0	17.05
				1	74	17.05
				40	18	15.63
				75	0	15.59
	1747.5	20325		1	0	17.15
				1	74	17.15
				40	18	15.67
				75	0	15.58

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	17.81
				1	99	17.81
				50	25	16.66
				100	0	16.61
	1732.5	20175		1	0	17.86
				1	99	17.86
				50	25	16.64
				100	0	16.61
	1745	20300		1	0	17.88
				1	99	17.88
				50	25	16.66
				100	0	16.63
16QAM	1720	20050	20	1	0	17.16
				1	99	17.16
				50	25	15.71
				100	0	15.67
	1732.5	20175		1	0	17.10
				1	99	17.10
				50	25	15.67
				100	0	15.63
	1745	20300		1	0	17.21
				1	99	17.21
				50	25	15.70
				100	0	15.63
64QAM	1720	20050	20	1	0	17.14
				1	99	17.14
				50	25	15.71
				100	0	15.63
	1732.5	20175		1	0	17.08
				1	99	17.08
				50	25	15.66
				100	0	15.62
	1745	20300		1	0	17.18
				1	99	17.18
				50	25	15.70
				100	0	15.61

**1 RF Power Output down Ant**

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1710.7	19957	1.4	1	0	23.97
				1	5	23.97
				3	2	23.02
				6	0	22.97
	1732.5	20175		1	0	24.12
				1	5	24.12
				3	2	23.00
				6	0	22.97
	1754.3	20393		1	0	24.04
				1	5	24.04
				3	2	23.02
				6	0	22.99
16QAM	1710.7	19957	1.4	1	0	23.52
				1	5	23.52
				3	2	22.07
				6	0	22.03
	1732.5	20175		1	0	23.46
				1	5	23.46
				3	2	22.03
				6	0	21.99
	1754.3	20393		1	0	23.57
				1	5	23.57
				3	2	22.06
				6	0	21.99
64QAM	1710.7	19957	1.4	1	0	23.50
				1	5	23.50
				3	2	22.07
				6	0	21.99
	1732.5	20175		1	0	23.44
				1	5	23.44
				3	2	22.02
				6	0	21.98
	1754.3	20393		1	0	23.54
				1	5	23.54
				3	2	22.06
				6	0	21.97



Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.99
				1	14	23.99
				8	4	23.04
				15	0	22.99
	1732.5	20175		1	0	24.14
				1	14	24.14
				8	4	23.02
				15	0	22.99
	1753.5	20385		1	0	24.06
				1	14	24.06
				8	4	23.04
				15	0	23.01
16QAM	1711.5	19965	3	1	0	23.54
				1	14	23.54
				8	4	22.09
				15	0	22.05
	1732.5	20175		1	0	23.48
				1	14	23.48
				8	4	22.05
				15	0	22.01
	1753.5	20385		1	0	23.59
				1	14	23.59
				8	4	22.08
				15	0	22.01
64QAM	1711.5	19965	3	1	0	23.52
				1	14	23.52
				8	4	22.09
				15	0	22.01
	1732.5	20175		1	0	23.46
				1	14	23.46
				8	4	22.04
				15	0	22.00
	1753.5	20385		1	0	23.56
				1	14	23.56
				8	4	22.08
				15	0	21.99

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	24.04
				1	24	24.04
				12	6	23.09
				25	0	23.04
	1732.5	20175		1	0	24.19
				1	24	24.19
				12	6	23.07
				25	0	23.04
	1752.5	20375		1	0	24.11
				1	24	24.11
				12	6	23.09
				25	0	23.06
16QAM	1712.5	19975	5	1	0	23.59
				1	24	23.59
				12	6	22.14
				25	0	22.10
	1732.5	20175		1	0	23.53
				1	24	23.53
				12	6	22.10
				25	0	22.06
	1752.5	20375		1	0	23.64
				1	24	23.64
				12	6	22.13
				25	0	22.06
64QAM	1712.5	19975	5	1	0	23.57
				1	24	23.57
				12	6	22.14
				25	0	22.06
	1732.5	20175		1	0	23.51
				1	24	23.51
				12	6	22.09
				25	0	22.05
	1752.5	20375		1	0	23.61
				1	24	23.61
				12	6	22.13
				25	0	22.04

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	24.05
				1	49	24.05
				24	12	23.10
				50	0	23.05
	1732.5	20175		1	0	24.20
				1	49	24.20
				24	12	23.08
				50	0	23.05
	1750	20350		1	0	24.12
				1	49	24.12
				24	12	23.10
				50	0	23.07
16QAM	1715	20000	10	1	0	23.60
				1	49	23.60
				24	12	22.15
				50	0	22.11
	1732.5	20175		1	0	23.54
				1	49	23.54
				24	12	22.11
				50	0	22.07
	1750	20350		1	0	23.65
				1	49	23.65
				24	12	22.14
				50	0	22.07
64QAM	1715	20000	10	1	0	23.58
				1	49	23.58
				24	12	22.15
				50	0	22.07
	1732.5	20175		1	0	23.52
				1	49	23.52
				24	12	22.10
				50	0	22.06
	1750	20350		1	0	23.62
				1	49	23.62
				24	12	22.14
				50	0	22.05

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	24.08
				1	74	24.08
				40	18	23.13
				75	0	23.08
	1732.5	20175		1	0	24.23
				1	74	24.23
				40	18	23.11
				75	0	23.08
	1747.5	20325		1	0	24.15
				1	74	24.15
				40	18	23.13
				75	0	23.10
16QAM	1717.5	20025	15	1	0	23.63
				1	74	23.63
				40	18	22.18
				75	0	22.14
	1732.5	20175		1	0	23.57
				1	74	23.57
				40	18	22.14
				75	0	22.10
	1747.5	20325		1	0	23.68
				1	74	23.68
				40	18	22.17
				75	0	22.10
64QAM	1717.5	20025	15	1	0	23.61
				1	74	23.61
				40	18	22.18
				75	0	22.10
	1732.5	20175		1	0	23.55
				1	74	23.55
				40	18	22.13
				75	0	22.09
	1747.5	20325		1	0	23.65
				1	74	23.65
				40	18	22.17
				75	0	22.08



Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	24.11
				1	99	24.11
				50	25	23.16
				100	0	23.11
	1732.5	20175		1	0	24.26
				1	99	24.26
				50	25	23.14
				100	0	23.11
	1745	20300		1	0	24.18
				1	99	24.18
				50	25	23.16
				100	0	23.13
16QAM	1720	20050	20	1	0	23.66
				1	99	23.66
				50	25	22.21
				100	0	22.17
	1732.5	20175		1	0	23.60
				1	99	23.60
				50	25	22.17
				100	0	22.13
	1745	20300		1	0	23.71
				1	99	23.71
				50	25	22.20
				100	0	22.13
64QAM	1720	20050	20	1	0	23.64
				1	99	23.64
				50	25	22.21
				100	0	22.13
	1732.5	20175		1	0	23.58
				1	99	23.58
				50	25	22.16
				100	0	22.12
	1745	20300		1	0	23.68
				1	99	23.68
				50	25	22.20
				100	0	22.11

## 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	1.08	Fig.2	1.08	Fig.3
	1732.5	20175		6	0	1.07	Fig.4	1.08	Fig.5	1.08	Fig.6
	1754.3	20393		6	0	1.08	Fig.7	1.08	Fig.8	1.08	Fig.9
	1711.5	19965	3	15	0	2.70	Fig.10	2.71	Fig.11	2.71	Fig.12
	1732.5	20175		15	0	2.70	Fig.13	2.70	Fig.14	2.70	Fig.15
	1753.5	20385		15	0	2.70	Fig.16	2.70	Fig.17	2.70	Fig.18
	1712.5	19975	5	25	0	4.48	Fig.19	4.49	Fig.20	4.48	Fig.21
	1732.5	20175		25	0	4.49	Fig.22	4.48	Fig.23	4.49	Fig.24
	1752.5	20375		25	0	4.49	Fig.25	4.48	Fig.26	4.48	Fig.27
	1715	20000	10	50	0	8.94	Fig.28	8.93	Fig.29	8.96	Fig.30
	1732.5	20175		50	0	8.95	Fig.31	8.94	Fig.32	8.94	Fig.33
	1750	20350		50	0	8.93	Fig.34	8.96	Fig.35	8.94	Fig.36
	1717.5	20025	15	75	0	13.42	Fig.37	13.43	Fig.38	13.42	Fig.39
	1732.5	20175		75	0	13.43	Fig.40	13.40	Fig.41	13.45	Fig.42
	1747.5	20325		75	0	13.41	Fig.43	13.40	Fig.44	13.42	Fig.45
	1720	20050	20	100	0	17.84	Fig.46	17.84	Fig.47	17.85	Fig.48
1732.5	20175	100		0	17.87	Fig.49	17.87	Fig.50	17.90	Fig.51	
1745	20300	100		0	17.89	Fig.52	17.89	Fig.53	17.86	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	1.22	Fig.1	1.21	Fig.2	1.22	Fig.3
	1732.5	20175		6	0	1.21	Fig.4	1.22	Fig.5	1.20	Fig.6
	1754.3	20393		6	0	1.23	Fig.7	1.21	Fig.8	1.22	Fig.9
	1711.5	19965	3	15	0	2.98	Fig.10	3.00	Fig.11	2.97	Fig.12
	1732.5	20175		15	0	2.98	Fig.13	2.97	Fig.14	2.96	Fig.15
	1753.5	20385		15	0	2.99	Fig.16	2.99	Fig.17	2.94	Fig.18
	1712.5	19975	5	25	0	4.89	Fig.19	4.83	Fig.20	4.84	Fig.21
	1732.5	20175		25	0	4.90	Fig.22	4.86	Fig.23	4.89	Fig.24
	1752.5	20375		25	0	4.90	Fig.25	4.85	Fig.26	4.89	Fig.27
	1715	20000	10	50	0	9.63	Fig.28	9.71	Fig.29	9.69	Fig.30
	1732.5	20175		50	0	9.68	Fig.31	9.66	Fig.32	9.67	Fig.33
	1750	20350		50	0	9.67	Fig.34	9.64	Fig.35	9.68	Fig.36
	1717.5	20025	15	75	0	14.47	Fig.37	14.24	Fig.38	14.30	Fig.39
	1732.5	20175		75	0	14.43	Fig.40	14.39	Fig.41	14.43	Fig.42
	1747.5	20325		75	0	14.27	Fig.43	14.37	Fig.44	13.36	Fig.45
	1720	20050	20	100	0	19.14	Fig.46	18.93	Fig.47	19.14	Fig.48
1732.5	20175	100		0	19.10	Fig.49	19.04	Fig.50	18.93	Fig.51	
1745	20300	100		0	19.12	Fig.52	19.32	Fig.53	19.23	Fig.54	

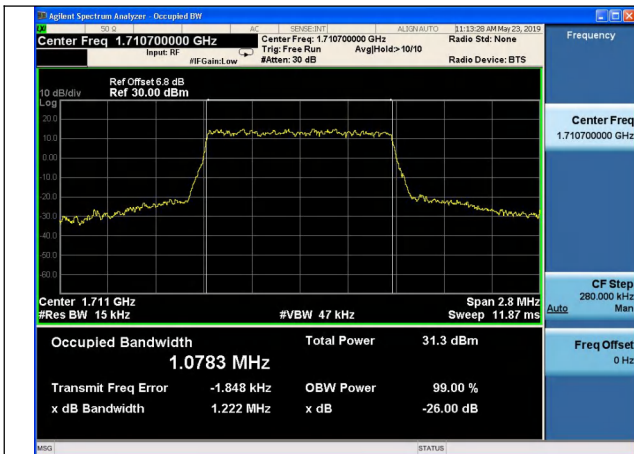


Fig.1



Fig.2

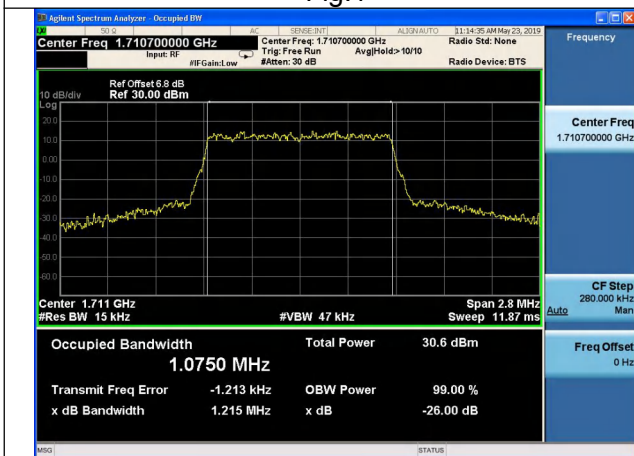


Fig.3



Fig.4

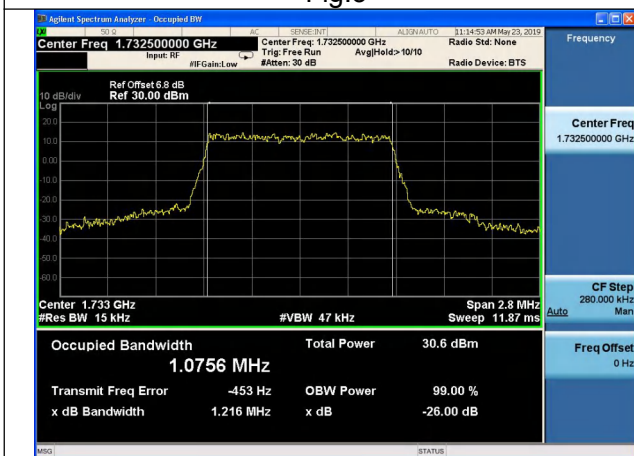


Fig.5

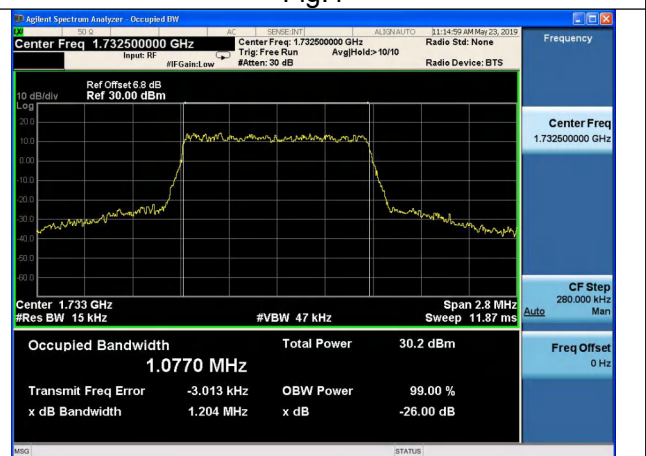


Fig.6

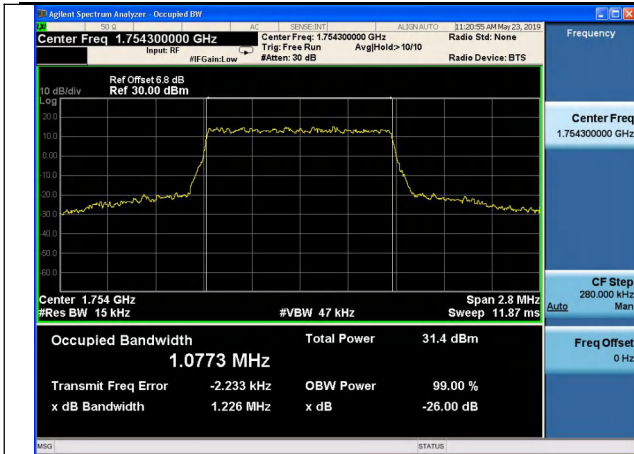


Fig.7

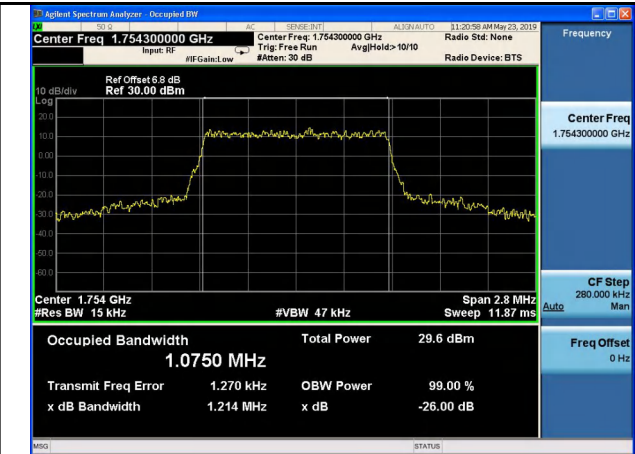


Fig.8

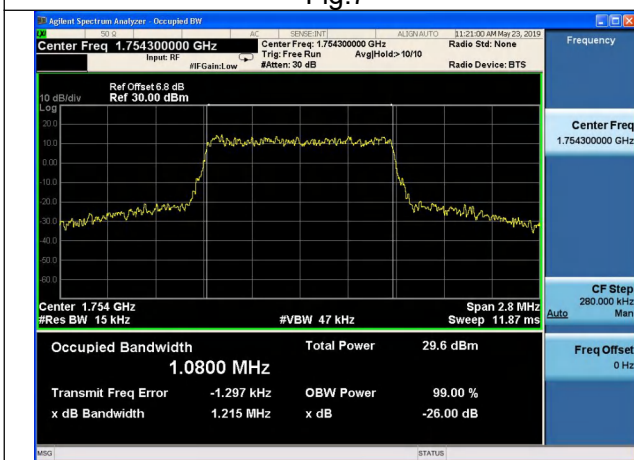


Fig.9

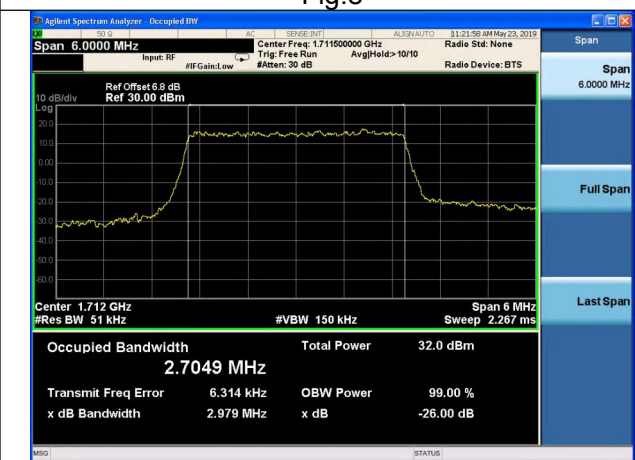


Fig.10

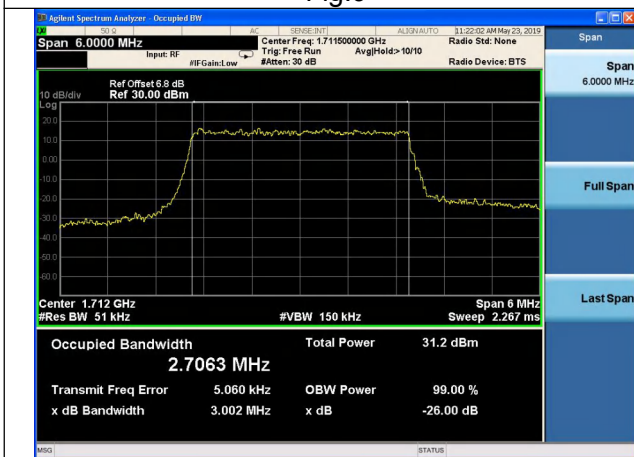


Fig.11

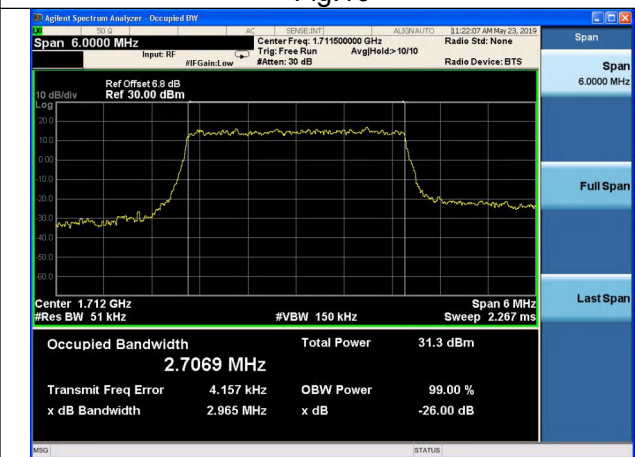


Fig.12

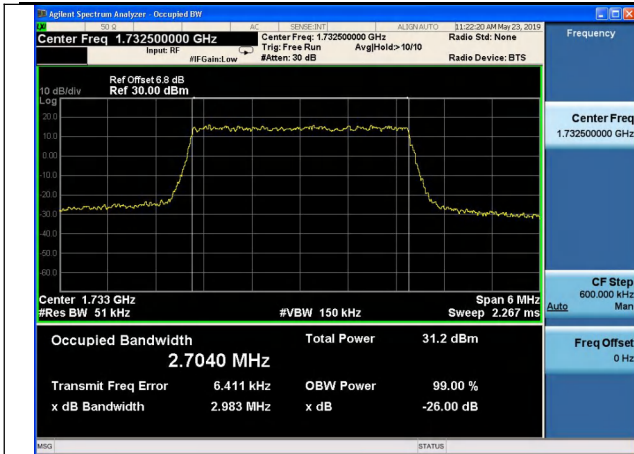


Fig. 13

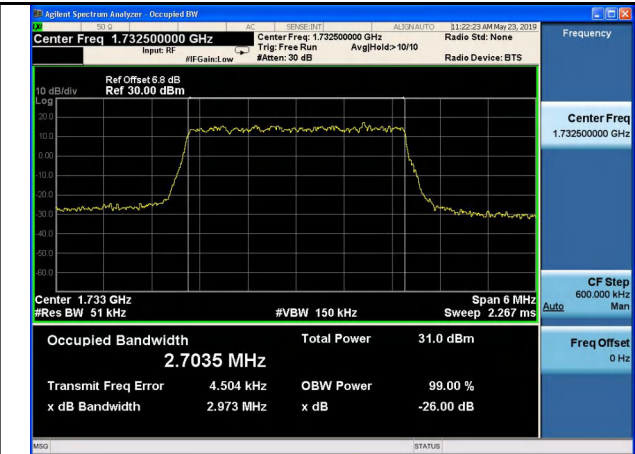


Fig. 14

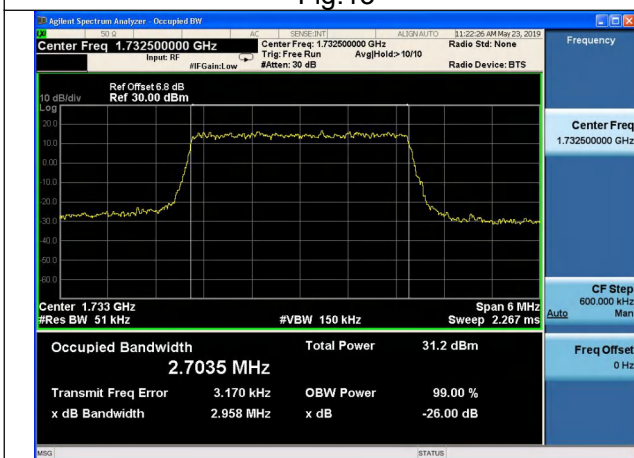


Fig. 15

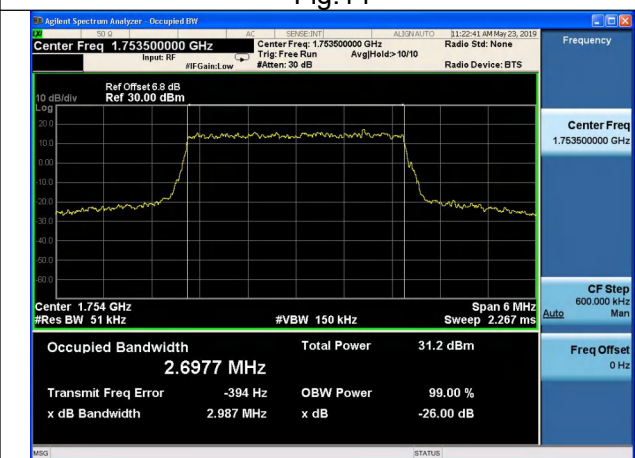


Fig. 16

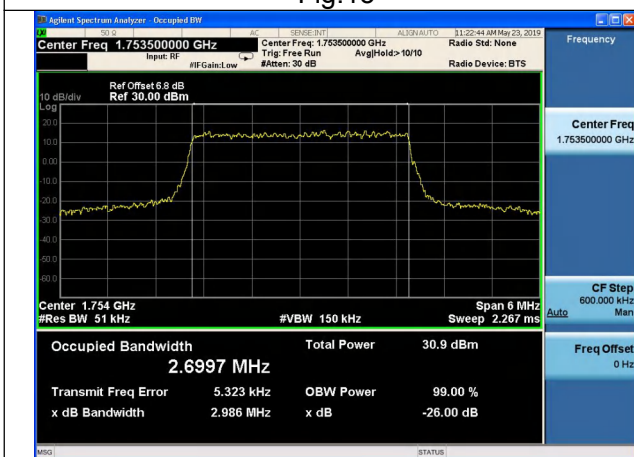


Fig. 17

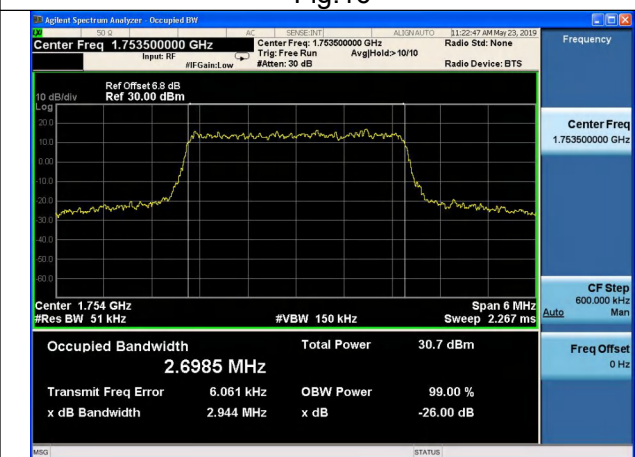


Fig. 18