5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
12	704	23060	10	1	0	Fig.1
12	707.5	23095	10	1	0	Fig.2
12	711	23130	10	1	0	Fig.3

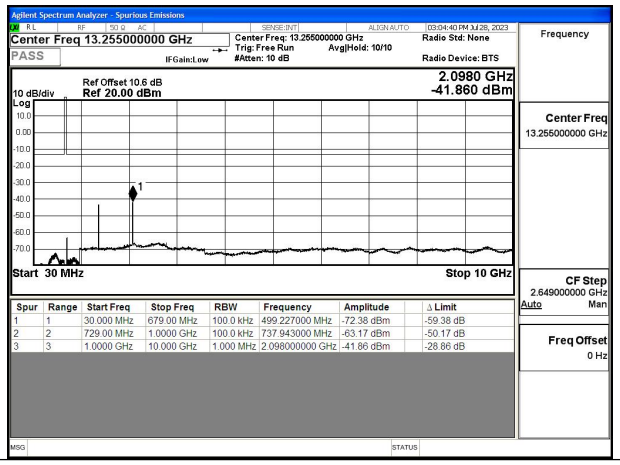


Fig.1

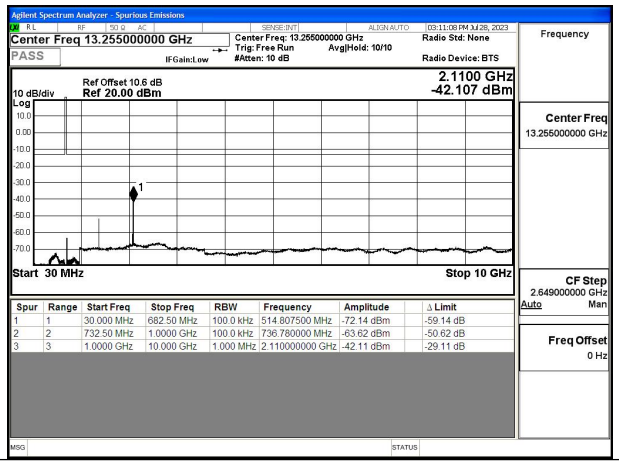


Fig.2

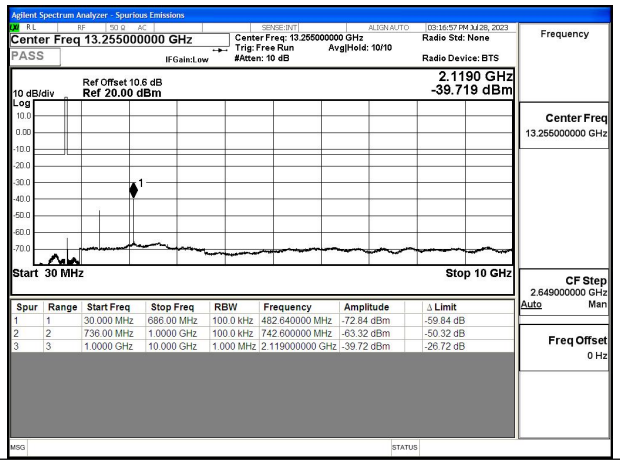


Fig.3

6 Band Edges Compliance

Band	Mode	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
12	QPSK	699.7	23017	1.4	1	0	Fig.1
12	QPSK	699.7	23017	1.4	6	0	Fig.2
12	QPSK	715.3	23173	1.4	1	5	Fig.3
12	QPSK	715.3	23173	1.4	6	0	Fig.4
12	QPSK	700.5	23025	3	1	0	Fig.5
12	QPSK	700.5	23025	3	15	0	Fig.6
12	QPSK	714.5	23165	3	1	14	Fig.7
12	QPSK	714.5	23165	3	15	0	Fig.8
12	QPSK	701.5	23035	5	1	0	Fig.9
12	QPSK	701.5	23035	5	25	0	Fig.10
12	QPSK	713.5	23155	5	1	24	Fig.11
12	QPSK	713.5	23155	5	25	0	Fig.12
12	QPSK	704	23060	10	1	0	Fig.13
12	QPSK	704	23060	10	50	0	Fig.14
12	QPSK	711	23130	10	1	49	Fig.15
12	QPSK	711	23130	10	50	0	Fig.16

Test Mode: QPSK

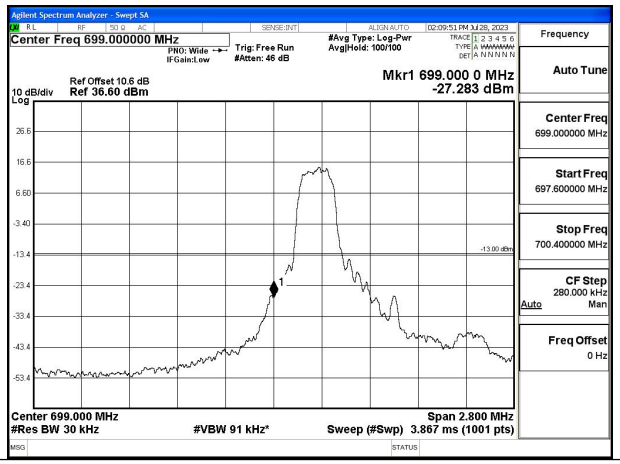


Fig.1

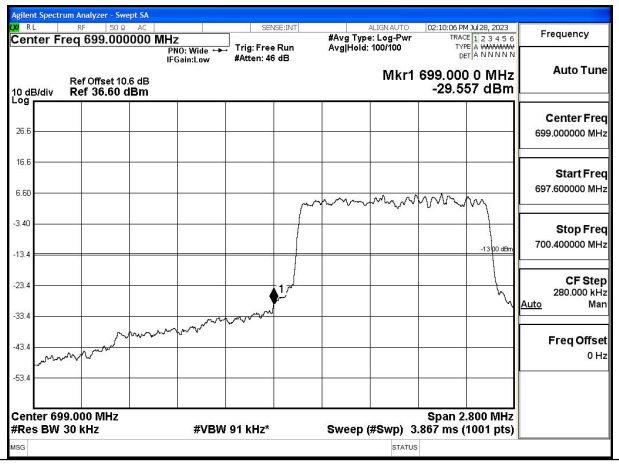


Fig.2

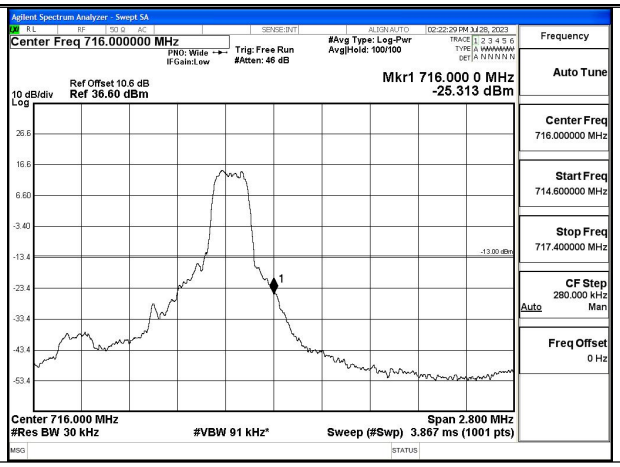


Fig.3

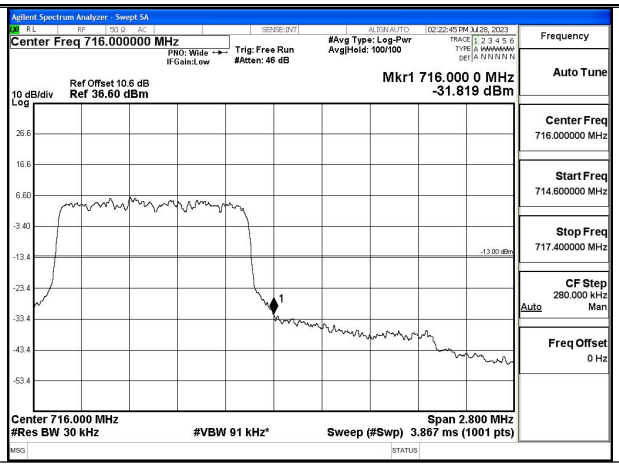


Fig.4

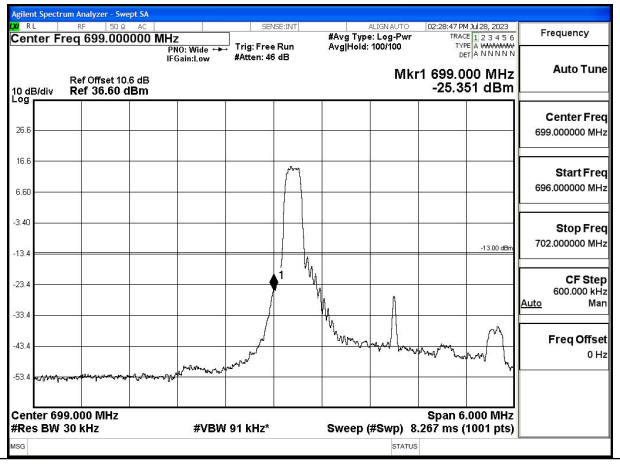


Fig.5

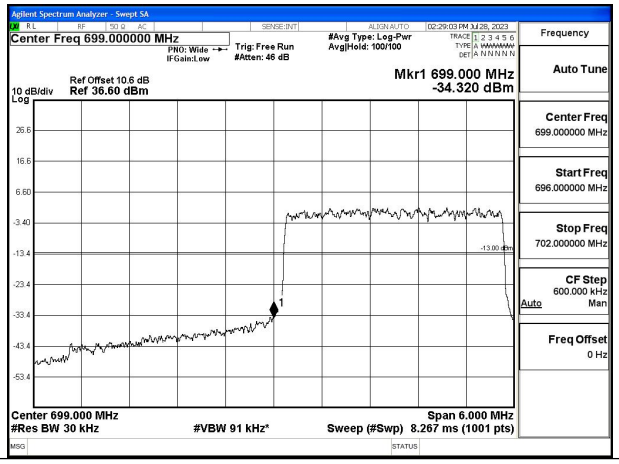


Fig.6

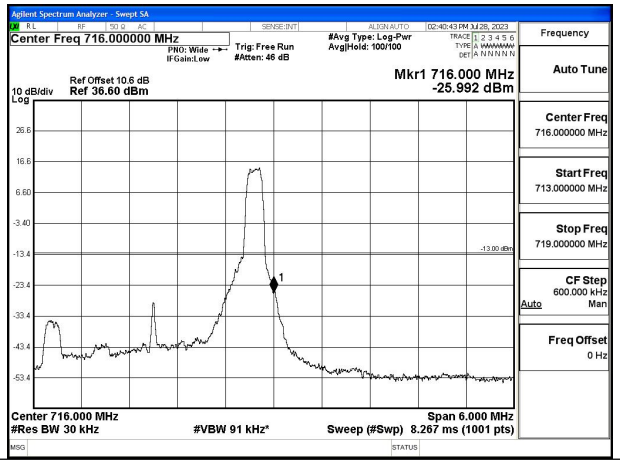


Fig.7

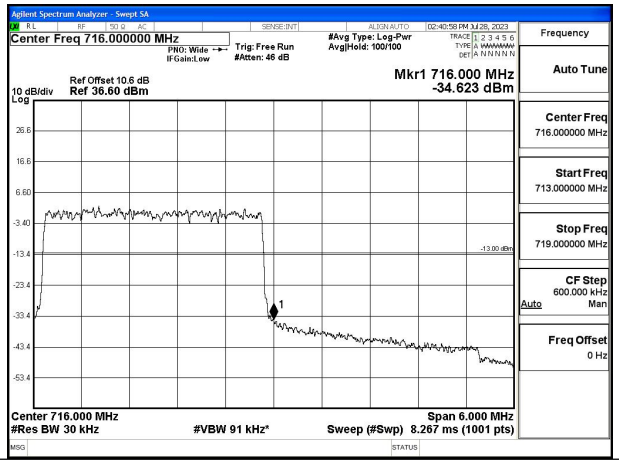


Fig.8

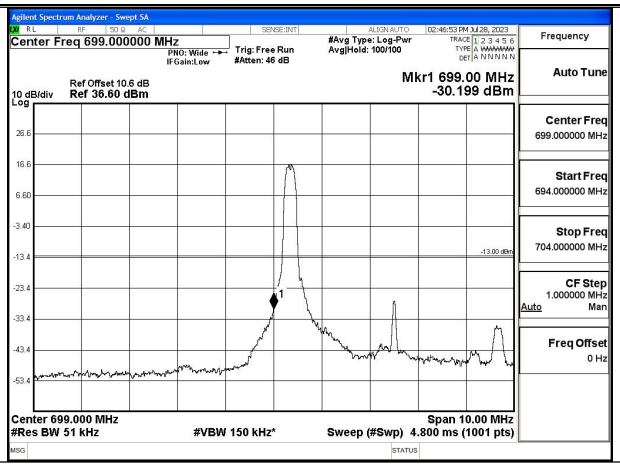


Fig.9

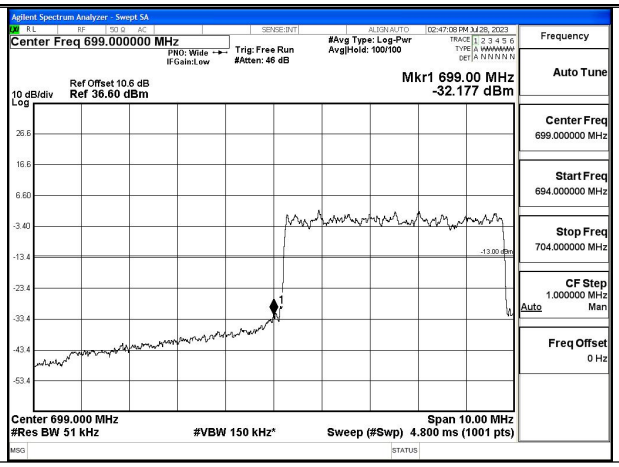


Fig.10

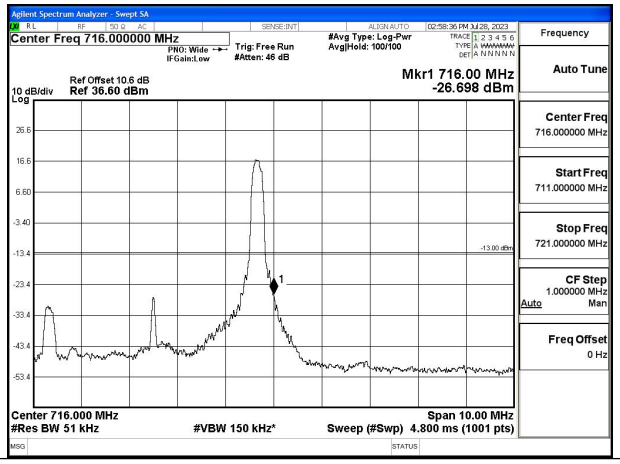


Fig.11

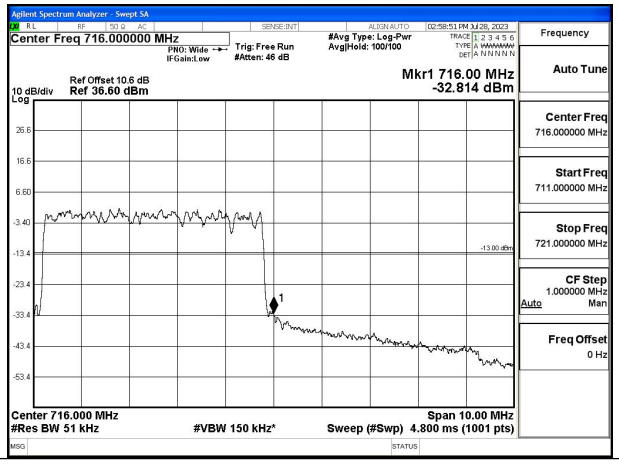


Fig.12

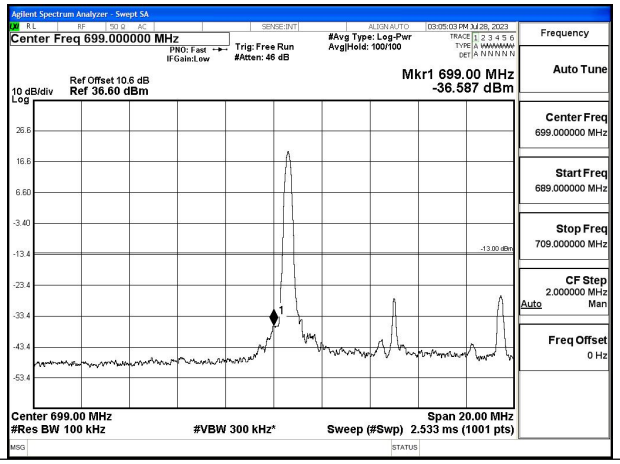


Fig.13

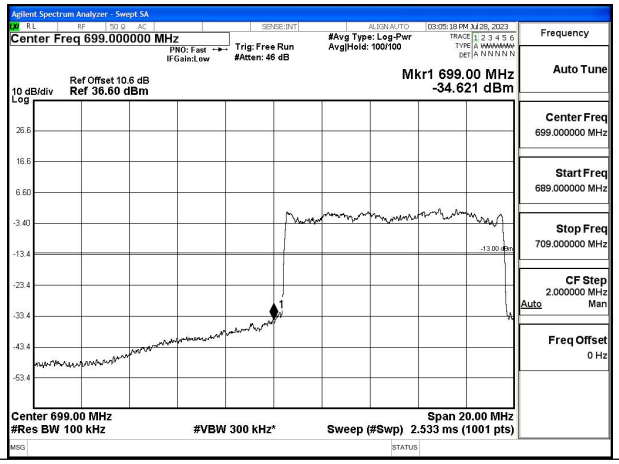
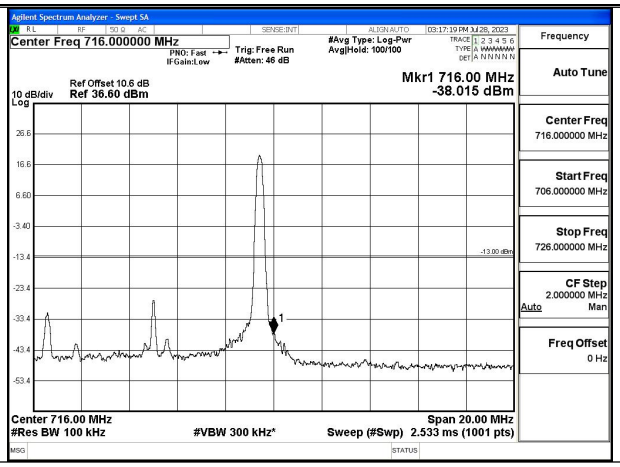


Fig.14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PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 46 dB
#Avg Type: Log-Pwr
Avg|Hold: 100/100
Mkr1 716.00 MHz
-38.015 dBm
Ref Offset 10.6 dB
10 dB/div
Log
Ref 36.60 dBm
Center 716.00 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 20.00 MHz
Sweep (#Swp) 2.533 ms (1001 pts)
Frequency
Auto Tune
Center Freq
716.000000 MHz
Start Freq
706.000000 MHz
Stop Freq
726.000000 MHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.15

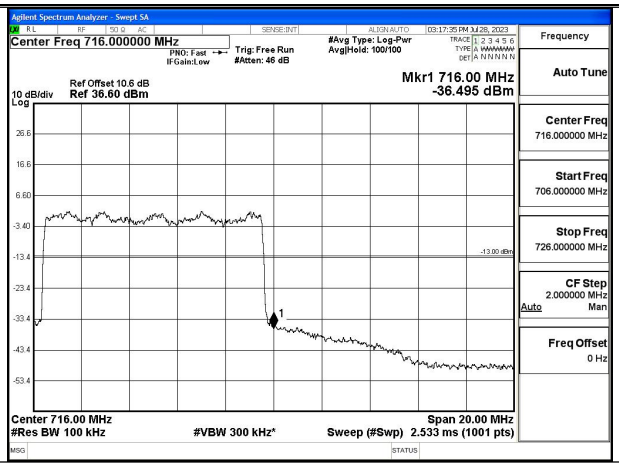
Agilent Spectrum Analyzer - Swept SA
Center Freq 716.000000 MHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 46 dB
#Avg Type: Log-Pwr
Avg|Hold: 100/100
Mkr1 716.00 MHz
-36.495 dBm
Ref Offset 10.6 dB
10 dB/div
Log
Ref 36.60 dBm
Center 716.00 MHz
#Res BW 100 kHz
#VBW 300 kHz*
Span 20.00 MHz
Sweep (#Swp) 2.533 ms (1001 pts)
Frequency
Auto Tune
Center Freq
716.000000 MHz
Start Freq
706.000000 MHz
Stop Freq
726.000000 MHz
CF Step
2.000000 MHz
Auto
Man
Freq Offset
0 Hz

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 12 Low Channel QPSK			
		1.4M	3M	5M	10M
-10	NV	-0.011	-0.012	-0.007	-0.011
0	NV	-0.015	-0.011	-0.016	-0.008
+10	NV	-0.013	-0.015	-0.014	-0.011
+20	NV	-0.014	-0.013	-0.012	-0.012
+30	NV	-0.006	-0.012	-0.007	-0.017
+40	NV	-0.010	-0.009	-0.008	-0.011
+50	NV	-0.010	-0.011	-0.018	-0.013
+55	NV	-0.010	-0.013	-0.012	-0.014
+20	LV	-0.009	-0.012	-0.009	-0.012
+20	HV	-0.011	-0.017	-0.012	-0.012

Temperature(°C)	Voltage	Test Result (ppm) Band 12 High Channel QPSK			
		1.4M	3M	5M	10M
-10	NV	-0.012	-0.015	-0.014	-0.010
0	NV	-0.013	-0.009	-0.012	-0.010
+10	NV	-0.014	-0.017	-0.004	-0.016
+20	NV	-0.008	-0.016	-0.017	-0.008
+30	NV	-0.014	-0.015	-0.014	-0.012
+40	NV	-0.012	-0.018	-0.010	-0.011
+50	NV	-0.014	-0.010	-0.013	-0.016
+55	NV	-0.012	-0.017	-0.011	-0.011
+20	LV	-0.011	-0.009	-0.017	-0.011
+20	HV	-0.016	-0.015	-0.019	-0.008

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	699.7	23017	1.4	1	0	23.69	15.03	0.032
QPSK	699.7	23017	1.4	1	3	23.66	15.00	0.032
QPSK	699.7	23017	1.4	1	5	23.66	15.00	0.032
QPSK	699.7	23017	1.4	3	0	23.69	15.03	0.032
QPSK	699.7	23017	1.4	3	1	23.81	15.15	0.033
QPSK	699.7	23017	1.4	3	3	23.77	15.11	0.032
QPSK	699.7	23017	1.4	6	0	22.68	14.02	0.025
QPSK	707.5	23095	1.4	1	0	23.43	14.77	0.030
QPSK	707.5	23095	1.4	1	3	23.71	15.05	0.032
QPSK	707.5	23095	1.4	1	5	23.53	14.87	0.031
QPSK	707.5	23095	1.4	3	0	23.66	15.00	0.032
QPSK	707.5	23095	1.4	3	1	23.62	14.96	0.031
QPSK	707.5	23095	1.4	3	3	23.52	14.86	0.031
QPSK	707.5	23095	1.4	6	0	22.62	13.96	0.025
QPSK	715.3	23173	1.4	1	0	23.62	14.96	0.031
QPSK	715.3	23173	1.4	1	3	23.74	15.08	0.032
QPSK	715.3	23173	1.4	1	5	23.52	14.86	0.031
QPSK	715.3	23173	1.4	3	0	23.76	15.10	0.032
QPSK	715.3	23173	1.4	3	1	23.88	15.22	0.033
QPSK	715.3	23173	1.4	3	3	23.62	14.96	0.031
QPSK	715.3	23173	1.4	6	0	22.71	14.05	0.025

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	699.7	23017	1.4	1	0	22.87	14.21	0.026
16QAM	699.7	23017	1.4	1	3	22.99	14.33	0.027
16QAM	699.7	23017	1.4	1	5	22.78	14.12	0.026
16QAM	699.7	23017	1.4	3	0	22.70	14.04	0.025
16QAM	699.7	23017	1.4	3	1	22.59	13.93	0.025
16QAM	699.7	23017	1.4	3	3	22.62	13.96	0.025
16QAM	699.7	23017	1.4	6	0	21.81	13.15	0.021
16QAM	707.5	23095	1.4	1	0	22.50	13.84	0.024
16QAM	707.5	23095	1.4	1	3	22.64	13.98	0.025
16QAM	707.5	23095	1.4	1	5	22.55	13.89	0.024
16QAM	707.5	23095	1.4	3	0	22.73	14.07	0.026
16QAM	707.5	23095	1.4	3	1	22.71	14.05	0.025
16QAM	707.5	23095	1.4	3	3	22.83	14.17	0.026
16QAM	707.5	23095	1.4	6	0	21.79	13.13	0.021
16QAM	715.3	23173	1.4	1	0	22.73	14.07	0.026
16QAM	715.3	23173	1.4	1	3	22.95	14.29	0.027
16QAM	715.3	23173	1.4	1	5	22.76	14.10	0.026
16QAM	715.3	23173	1.4	3	0	22.76	14.10	0.026
16QAM	715.3	23173	1.4	3	1	22.74	14.08	0.026
16QAM	715.3	23173	1.4	3	3	22.57	13.91	0.025
16QAM	715.3	23173	1.4	6	0	21.74	13.08	0.020

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	700.5	23025	3	1	0	23.66	15.00	0.032
QPSK	700.5	23025	3	1	8	23.67	15.01	0.032
QPSK	700.5	23025	3	1	14	23.70	15.04	0.032
QPSK	700.5	23025	3	8	0	22.73	14.07	0.026
QPSK	700.5	23025	3	8	4	22.75	14.09	0.026
QPSK	700.5	23025	3	8	7	22.72	14.06	0.025
QPSK	700.5	23025	3	15	0	22.76	14.10	0.026
QPSK	707.5	23095	3	1	0	23.61	14.95	0.031
QPSK	707.5	23095	3	1	8	23.63	14.97	0.031
QPSK	707.5	23095	3	1	14	23.55	14.89	0.031
QPSK	707.5	23095	3	8	0	22.61	13.95	0.025
QPSK	707.5	23095	3	8	4	22.71	14.05	0.025
QPSK	707.5	23095	3	8	7	22.54	13.88	0.024
QPSK	707.5	23095	3	15	0	22.60	13.94	0.025
QPSK	714.5	23165	3	1	0	23.56	14.90	0.031
QPSK	714.5	23165	3	1	8	23.58	14.92	0.031
QPSK	714.5	23165	3	1	14	23.63	14.97	0.031
QPSK	714.5	23165	3	8	0	22.63	13.97	0.025
QPSK	714.5	23165	3	8	4	22.73	14.07	0.026
QPSK	714.5	23165	3	8	7	22.58	13.92	0.025
QPSK	714.5	23165	3	15	0	22.64	13.98	0.025

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	700.5	23025	3	1	0	23.29	14.63	0.029
16QAM	700.5	23025	3	1	8	23.25	14.59	0.029
16QAM	700.5	23025	3	1	14	23.21	14.55	0.029
16QAM	700.5	23025	3	8	0	21.77	13.11	0.020
16QAM	700.5	23025	3	8	4	21.85	13.19	0.021
16QAM	700.5	23025	3	8	7	21.84	13.18	0.021
16QAM	700.5	23025	3	15	0	21.85	13.19	0.021
16QAM	707.5	23095	3	1	0	22.83	14.17	0.026
16QAM	707.5	23095	3	1	8	22.86	14.20	0.026
16QAM	707.5	23095	3	1	14	22.72	14.06	0.025
16QAM	707.5	23095	3	8	0	21.57	12.91	0.020
16QAM	707.5	23095	3	8	4	21.59	12.93	0.020
16QAM	707.5	23095	3	8	7	21.56	12.90	0.019
16QAM	707.5	23095	3	15	0	21.68	13.02	0.020
16QAM	714.5	23165	3	1	0	22.87	14.21	0.026
16QAM	714.5	23165	3	1	8	22.83	14.17	0.026
16QAM	714.5	23165	3	1	14	22.79	14.13	0.026
16QAM	714.5	23165	3	8	0	21.65	12.99	0.020
16QAM	714.5	23165	3	8	4	21.66	13.00	0.020
16QAM	714.5	23165	3	8	7	21.66	13.00	0.020
16QAM	714.5	23165	3	15	0	21.61	12.95	0.020

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	701.5	23035	5	1	0	23.59	14.93	0.031
QPSK	701.5	23035	5	1	12	23.68	15.02	0.032
QPSK	701.5	23035	5	1	24	23.41	14.75	0.030
QPSK	701.5	23035	5	12	0	22.68	14.02	0.025
QPSK	701.5	23035	5	12	7	22.69	14.03	0.025
QPSK	701.5	23035	5	12	13	22.56	13.90	0.025
QPSK	701.5	23035	5	25	0	22.60	13.94	0.025
QPSK	707.5	23095	5	1	0	23.50	14.84	0.030
QPSK	707.5	23095	5	1	12	23.73	15.07	0.032
QPSK	707.5	23095	5	1	24	23.44	14.78	0.030
QPSK	707.5	23095	5	12	0	22.58	13.92	0.025
QPSK	707.5	23095	5	12	7	22.61	13.95	0.025
QPSK	707.5	23095	5	12	13	22.50	13.84	0.024
QPSK	707.5	23095	5	25	0	22.56	13.90	0.025
QPSK	713.5	23155	5	1	0	23.52	14.86	0.031
QPSK	713.5	23155	5	1	12	23.76	15.10	0.032
QPSK	713.5	23155	5	1	24	23.56	14.90	0.031
QPSK	713.5	23155	5	12	0	22.53	13.87	0.024
QPSK	713.5	23155	5	12	7	22.61	13.95	0.025
QPSK	713.5	23155	5	12	13	22.54	13.88	0.024
QPSK	713.5	23155	5	25	0	22.61	13.95	0.025

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	701.5	23035	5	1	0	22.77	14.11	0.026
16QAM	701.5	23035	5	1	12	22.92	14.26	0.027
16QAM	701.5	23035	5	1	24	22.65	13.99	0.025
16QAM	701.5	23035	5	12	0	21.63	12.97	0.020
16QAM	701.5	23035	5	12	7	21.69	13.03	0.020
16QAM	701.5	23035	5	12	13	21.61	12.95	0.020
16QAM	701.5	23035	5	25	0	21.65	12.99	0.020
16QAM	707.5	23095	5	1	0	22.87	14.21	0.026
16QAM	707.5	23095	5	1	12	23.15	14.49	0.028
16QAM	707.5	23095	5	1	24	22.84	14.18	0.026
16QAM	707.5	23095	5	12	0	21.57	12.91	0.020
16QAM	707.5	23095	5	12	7	21.67	13.01	0.020
16QAM	707.5	23095	5	12	13	21.51	12.85	0.019
16QAM	707.5	23095	5	25	0	21.61	12.95	0.020
16QAM	713.5	23155	5	1	0	22.72	14.06	0.025
16QAM	713.5	23155	5	1	12	22.94	14.28	0.027
16QAM	713.5	23155	5	1	24	22.67	14.01	0.025
16QAM	713.5	23155	5	12	0	21.54	12.88	0.019
16QAM	713.5	23155	5	12	7	21.70	13.04	0.020
16QAM	713.5	23155	5	12	13	21.59	12.93	0.020
16QAM	713.5	23155	5	25	0	21.66	13.00	0.020

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	704	23060	10	1	0	23.68	15.02	0.032
QPSK	704	23060	10	1	25	23.82	15.16	0.033
QPSK	704	23060	10	1	49	23.53	14.87	0.031
QPSK	704	23060	10	25	0	22.75	14.09	0.026
QPSK	704	23060	10	25	12	22.61	13.95	0.025
QPSK	704	23060	10	25	25	22.58	13.92	0.025
QPSK	704	23060	10	50	0	22.66	14.00	0.025
QPSK	707.5	23095	10	1	0	23.55	14.89	0.031
QPSK	707.5	23095	10	1	25	23.70	15.04	0.032
QPSK	707.5	23095	10	1	49	23.60	14.94	0.031
QPSK	707.5	23095	10	25	0	22.69	14.03	0.025
QPSK	707.5	23095	10	25	12	22.68	14.02	0.025
QPSK	707.5	23095	10	25	25	22.60	13.94	0.025
QPSK	707.5	23095	10	50	0	22.67	14.01	0.025
QPSK	711	23130	10	1	0	23.53	14.87	0.031
QPSK	711	23130	10	1	25	23.77	15.11	0.032
QPSK	711	23130	10	1	49	23.58	14.92	0.031
QPSK	711	23130	10	25	0	22.62	13.96	0.025

QPSK	711	23130	10	25	12	22.66	14.00	0.025
QPSK	711	23130	10	25	25	22.59	13.93	0.025
QPSK	711	23130	10	50	0	22.58	13.92	0.025

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	704	23060	10	1	0	23.25	14.59	0.029
16QAM	704	23060	10	1	25	23.39	14.73	0.030
16QAM	704	23060	10	1	49	23.12	14.46	0.028
16QAM	704	23060	10	25	0	21.81	13.15	0.021
16QAM	704	23060	10	25	12	21.75	13.09	0.020
16QAM	704	23060	10	25	25	21.72	13.06	0.020
16QAM	704	23060	10	50	0	21.81	13.15	0.021
16QAM	707.5	23095	10	1	0	22.75	14.09	0.026
16QAM	707.5	23095	10	1	25	23.04	14.38	0.027
16QAM	707.5	23095	10	1	49	22.75	14.09	0.026
16QAM	707.5	23095	10	25	0	21.70	13.04	0.020
16QAM	707.5	23095	10	25	12	21.79	13.13	0.021
16QAM	707.5	23095	10	25	25	21.72	13.06	0.020
16QAM	707.5	23095	10	50	0	21.80	13.14	0.021
16QAM	711	23130	10	1	0	22.77	14.11	0.026
16QAM	711	23130	10	1	25	23.04	14.38	0.027
16QAM	711	23130	10	1	49	22.79	14.13	0.026
16QAM	711	23130	10	25	0	21.81	13.15	0.021
16QAM	711	23130	10	25	12	21.79	13.13	0.021
16QAM	711	23130	10	25	25	21.67	13.01	0.020
16QAM	711	23130	10	50	0	21.71	13.05	0.020

The original report test date

LTE Band 12

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	699.7	23017	1.4	1	0	21.44
				1	5	21.55
				3	2	20.76
				6	0	20.67
	707.5	23095		1	0	21.77
				1	5	21.64
				3	2	20.92
				6	0	20.89
	715.3	23173		1	0	21.50
				1	5	21.49
				3	2	20.71
				6	0	20.65
16QAM	699.7	23017	1.4	1	0	20.26
				1	5	20.21
				3	2	19.67
				6	0	19.63
	707.5	23095		1	0	20.22
				1	5	20.38
				3	2	19.77
				6	0	19.60
	715.3	23173		1	0	20.38
				1	5	20.14
				3	2	19.69
				6	0	19.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	21.62
				1	14	21.59
				8	4	20.70
				15	0	20.78
	707.5	23095		1	0	21.71
				1	14	21.71
				8	4	20.70
				15	0	20.75
	714.5	23165		1	0	21.62
				1	14	21.65
				8	4	20.90
				15	0	20.67
16QAM	700.5	23025	3	1	0	20.17
				1	14	20.31
				8	4	19.87
				15	0	19.67
	707.5	23095		1	0	20.31
				1	14	20.21
				8	4	19.79
				15	0	19.62
	714.5	23165		1	0	20.31
				1	14	20.18
				8	4	19.84
				15	0	19.53

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	21.58
				1	24	21.54
				12	6	20.89
				25	0	20.74
	707.5	23095		1	0	21.72
				1	24	21.62
				12	6	20.75
				25	0	20.71
	713.5	23155		1	0	21.76
				1	24	21.45
				12	6	20.93
				25	0	20.84
16QAM	701.5	23035	5	1	0	20.11
				1	24	20.17
				12	6	19.94
				25	0	19.67
	707.5	23095		1	0	20.39
				1	24	20.24
				12	6	19.85
				25	0	19.65
	713.5	23155		1	0	20.22
				1	24	20.31
				12	6	19.81
				25	0	19.52

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	21.66
				1	49	21.62
				24	12	20.68
				50	0	20.63
	707.5	23095		1	0	21.78
				1	49	21.73
				24	12	20.59
				50	0	20.52
	711	23130		1	0	21.85
				1	49	21.82
				24	12	20.79
				50	0	20.73
16QAM	704	23060	10	1	0	20.66
				1	49	20.65
				24	12	19.72
				50	0	19.66
	707.5	23095		1	0	20.81
				1	49	20.77
				24	12	19.59
				50	0	19.52
	711	23130		1	0	20.88
				1	49	20.83
				24	12	19.80
				50	0	19.72

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	699.7	23017	1.4	6	0	1.0827	Fig.1	1.0830	Fig.2
	707.5	23095		6	0	1.0833	Fig.3	1.0815	Fig.4
	715.3	23173		6	0	1.0836	Fig.5	1.0844	Fig.6
	700.5	23025	3	15	0	2.6794	Fig.7	2.6795	Fig.8
	707.5	23095		15	0	2.6810	Fig.9	2.6839	Fig.10
	714.5	23165		15	0	2.6807	Fig.11	2.6791	Fig.12
	701.5	23035	5	25	0	4.4719	Fig.13	4.4694	Fig.14
	707.5	23095		25	0	4.4818	Fig.15	4.4817	Fig.16
	713.5	23155		25	0	4.4689	Fig.17	4.4779	Fig.18
	704	23060	10	50	0	8.9268	Fig.19	8.9219	Fig.20
	707.5	23095		50	0	8.9579	Fig.21	8.9528	Fig.22
	711	23130		50	0	8.9066	Fig.23	8.9165	Fig.24

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)			
						QPSK		16-QAM	
12	699.7	23017	1.4	6	0	1.249	Fig.1	1.253	Fig.2
	707.5	23095		6	0	1.250	Fig.3	1.231	Fig.4
	715.3	23173		6	0	1.250	Fig.5	1.250	Fig.6
	700.5	23025	3	15	0	2.931	Fig.7	2.914	Fig.8
	707.5	23095		15	0	2.940	Fig.9	2.914	Fig.10
	714.5	23165		15	0	2.947	Fig.11	2.941	Fig.12
	701.5	23035	5	25	0	4.918	Fig.13	4.881	Fig.14
	707.5	23095		25	0	4.965	Fig.15	4.876	Fig.16
	713.5	23155		25	0	4.900	Fig.17	4.917	Fig.18
	704	23060	10	50	0	9.637	Fig.19	9.650	Fig.20
	707.5	23095		50	0	9.717	Fig.21	9.678	Fig.22
	711	23130		50	0	9.590	Fig.23	9.596	Fig.24

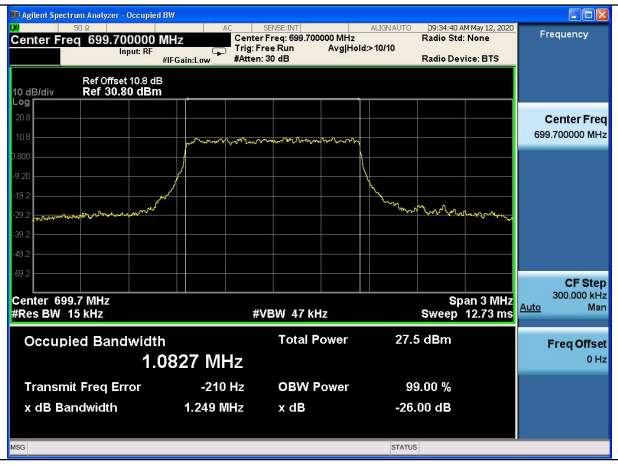

Fig.1

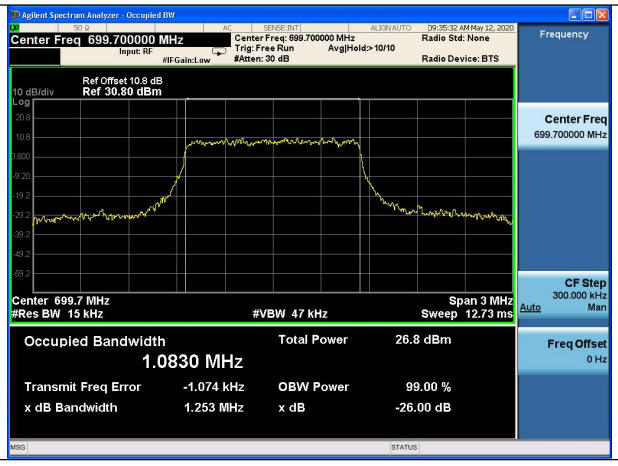

Fig.2

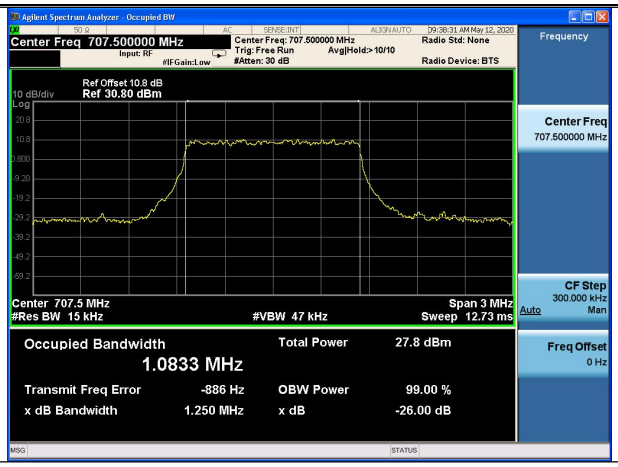

Fig.3

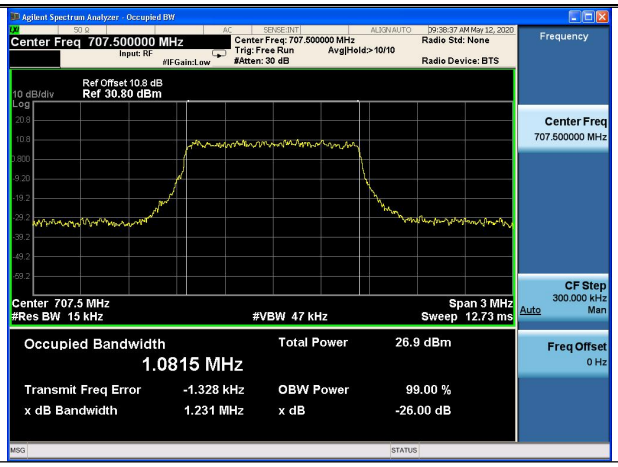

Fig.4

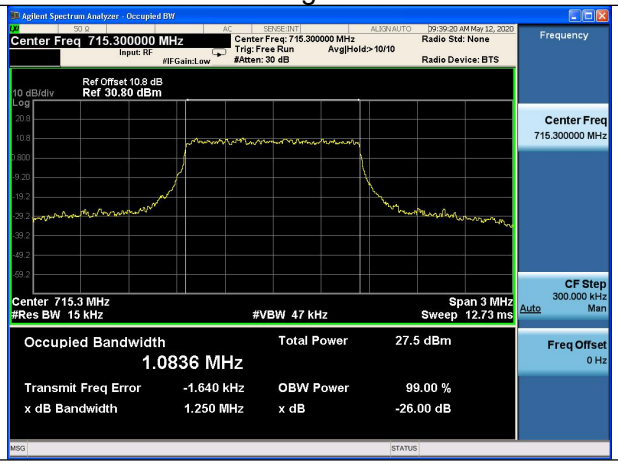

Fig.5

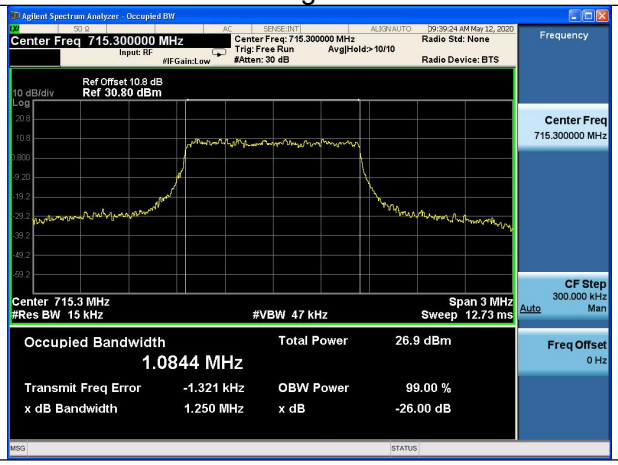

Fig.6

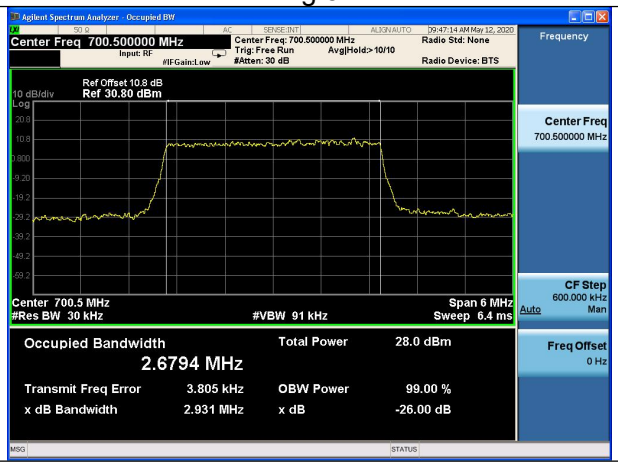

Fig.7

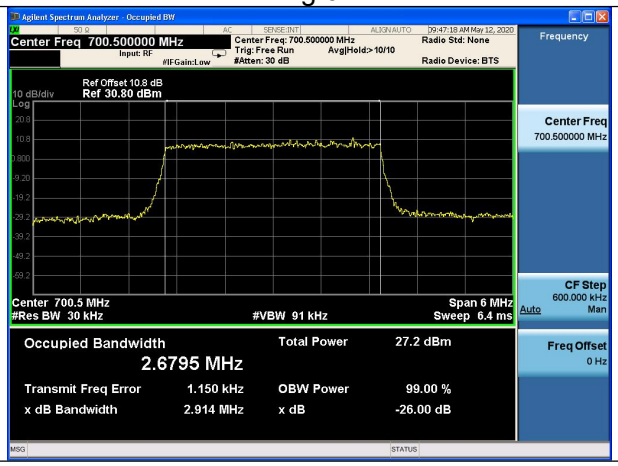

Fig.8

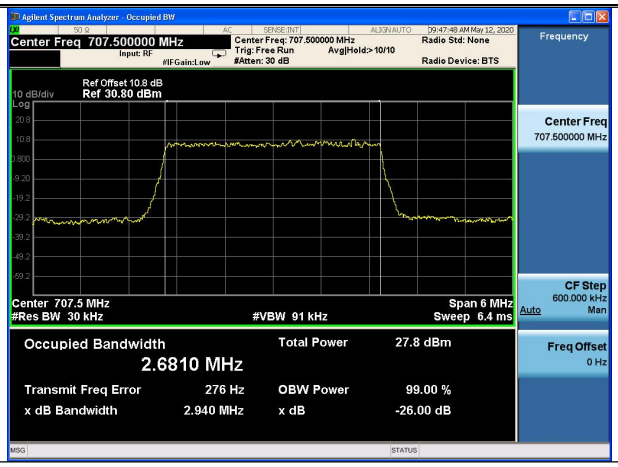

Fig.9

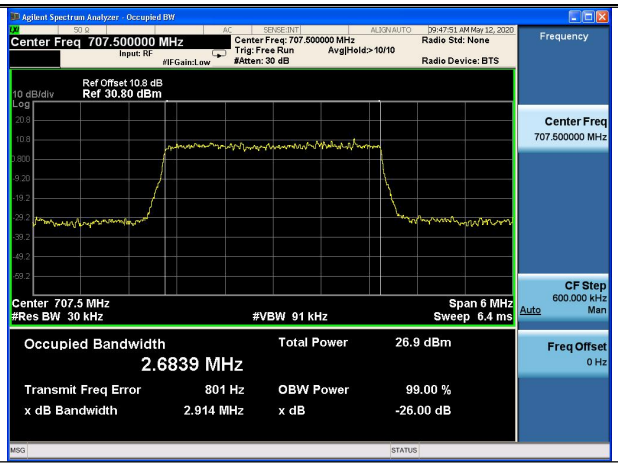

Fig.10

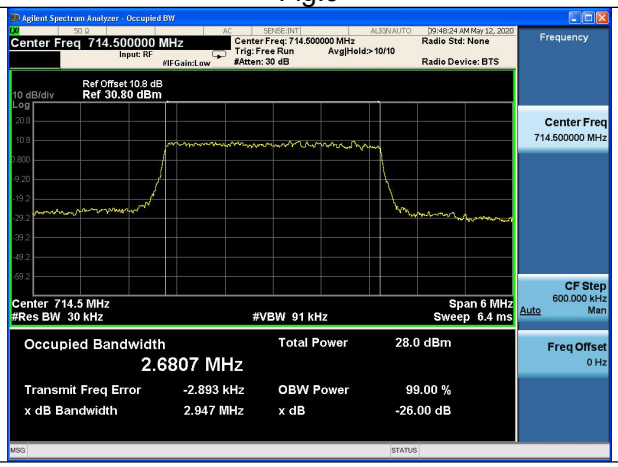

Fig.11

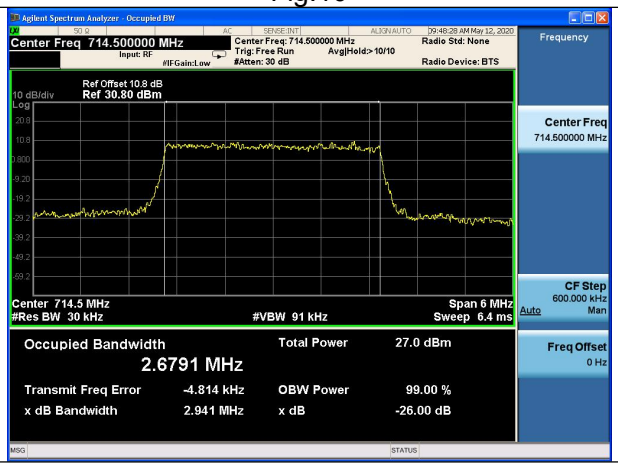

Fig.12

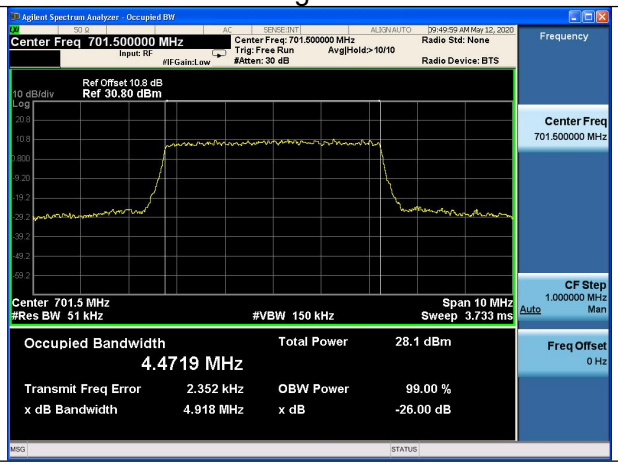

Fig.13

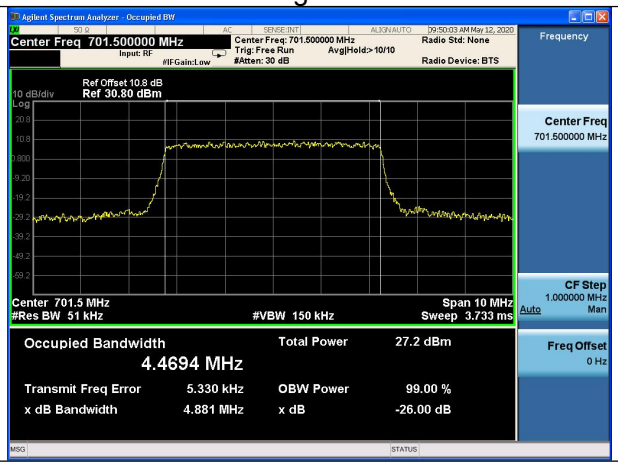

Fig.14

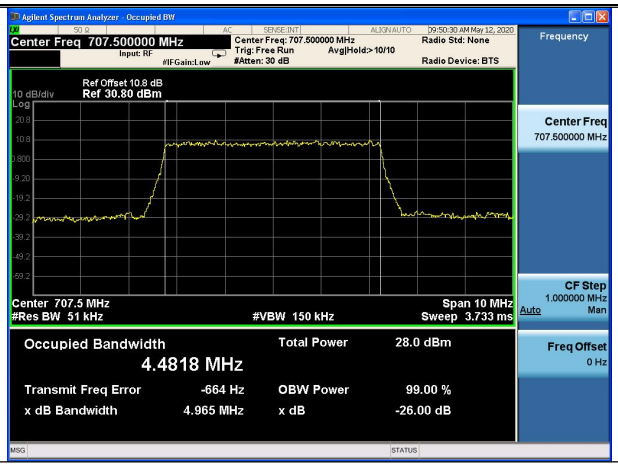

Fig.15

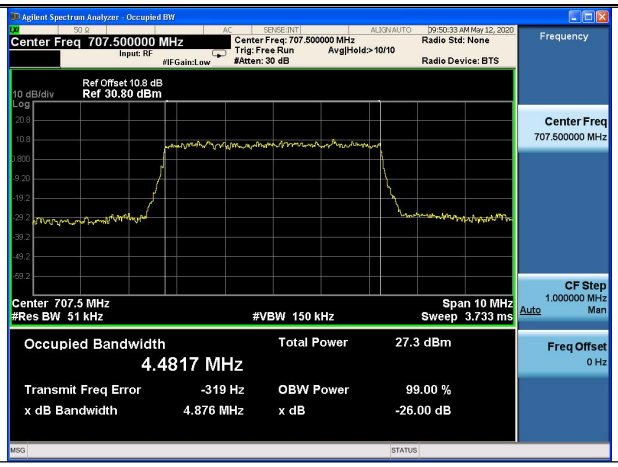

Fig.16

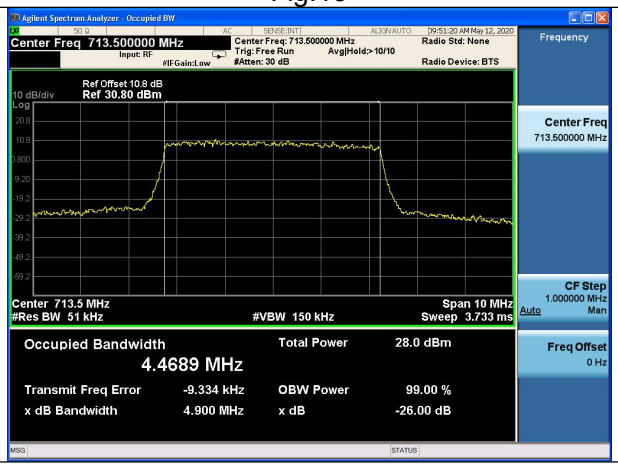

Fig.17

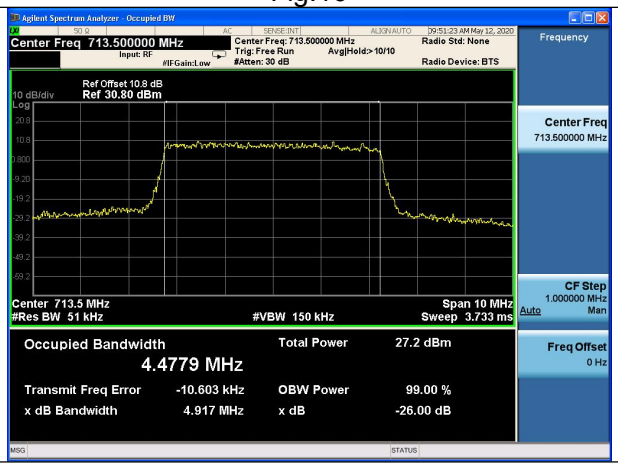

Fig.18

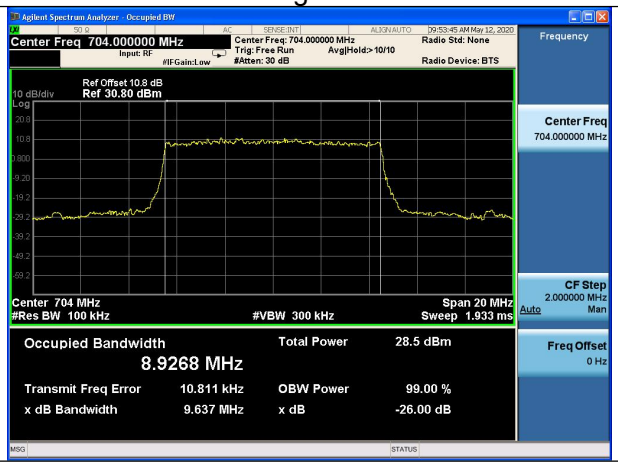

Fig.19

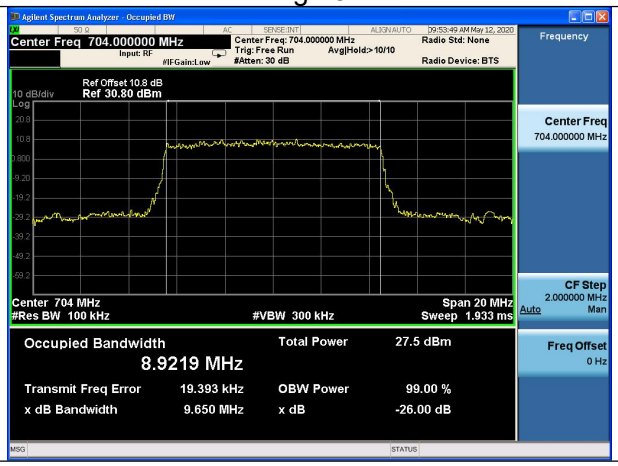

Fig.20

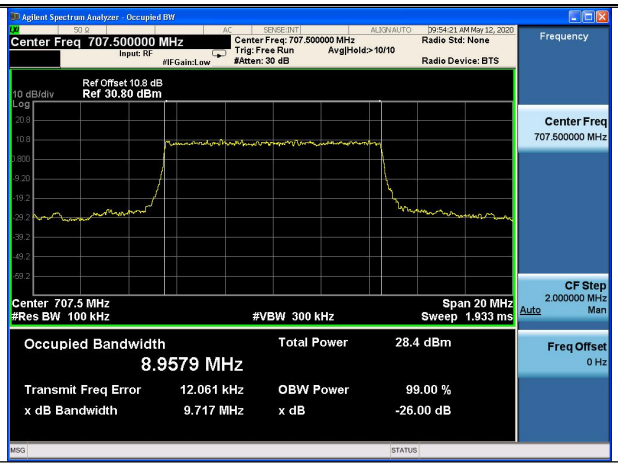

Fig.21

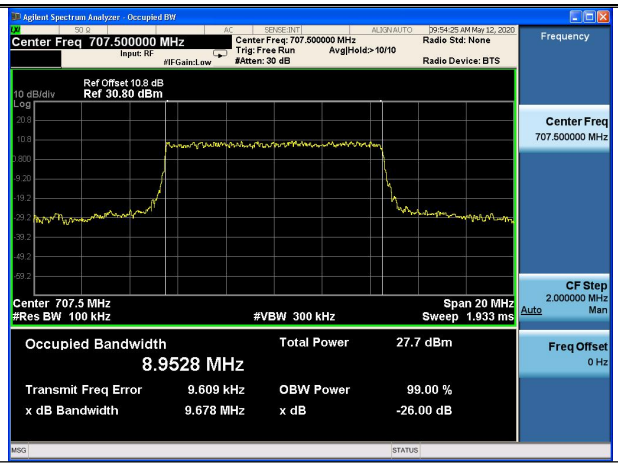

Fig.22

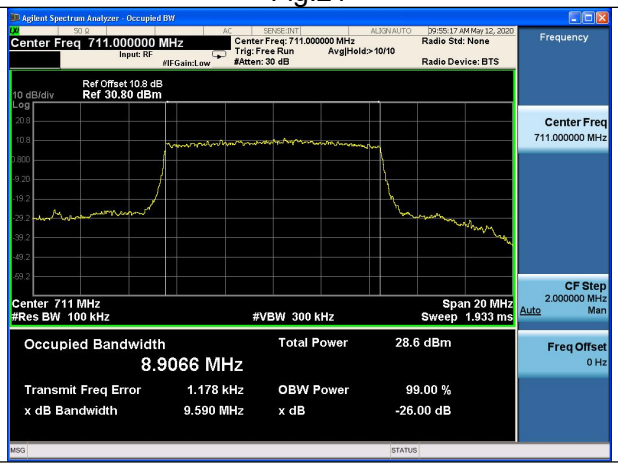

Fig.23

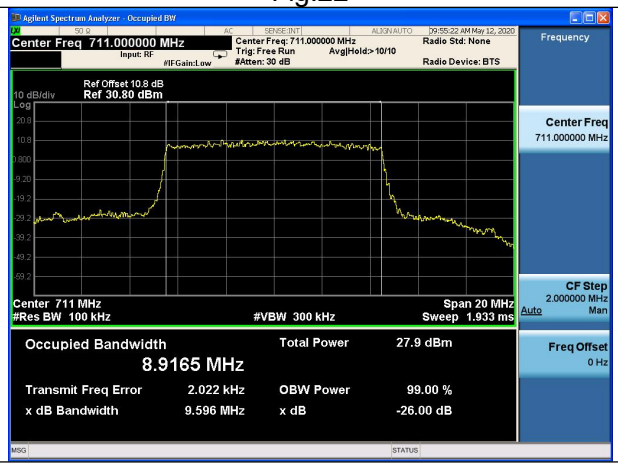

Fig.24