APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 41

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2498.5	39675	5	1	0	23.50
QPSK	2498.5	39675	5	1	12	23.69
QPSK	2498.5	39675	5	1	24	23.51
QPSK	2498.5	39675	5	12	0	22.69
QPSK	2498.5	39675	5	12	7	22.78
QPSK	2498.5	39675	5	12	13	22.79
QPSK	2498.5	39675	5	25	0	22.74
QPSK	2593	40620	5	1	0	23.46
QPSK	2593	40620	5	1	12	23.61
QPSK	2593	40620	5	1	24	23.59
QPSK	2593	40620	5	12	0	22.45
QPSK	2593	40620	5	12	7	22.50
QPSK	2593	40620	5	12	13	22.48
QPSK	2593	40620	5	25	0	22.42
QPSK	2687.5	41565	5	1	0	23.01
QPSK	2687.5	41565	5	1	12	23.61
QPSK	2687.5	41565	5	1	24	23.41
QPSK	2687.5	41565	5	12	0	22.16
QPSK	2687.5	41565	5	12	7	22.14
QPSK	2687.5	41565	5	12	13	22.18
QPSK	2687.5	41565	5	25	0	22.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2498.5	39675	5	1	0	23.30
16QAM	2498.5	39675	5	1	12	23.05
16QAM	2498.5	39675	5	1	24	23.16
16QAM	2498.5	39675	5	12	0	21.73
16QAM	2498.5	39675	5	12	7	21.85
16QAM	2498.5	39675	5	12	13	21.77
16QAM	2498.5	39675	5	25	0	21.74
16QAM	2593	40620	5	1	0	23.00
16QAM	2593	40620	5	1	12	22.86
16QAM	2593	40620	5	1	24	22.83
16QAM	2593	40620	5	12	0	21.53
16QAM	2593	40620	5	12	7	21.56
16QAM	2593	40620	5	12	13	21.55
16QAM	2593	40620	5	25	0	21.55
16QAM	2687.5	41565	5	1	0	22.79
16QAM	2687.5	41565	5	1	12	22.51
16QAM	2687.5	41565	5	1	24	22.65
16QAM	2687.5	41565	5	12	0	21.12
16QAM	2687.5	41565	5	12	7	21.16
16QAM	2687.5	41565	5	12	13	21.19
16QAM	2687.5	41565	5	25	0	21.20
64QAM	2498.5	39675	5	1	0	22.63
64QAM	2498.5	39675	5	1	12	22.98
64QAM	2498.5	39675	5	1	24	23.05
64QAM	2498.5	39675	5	12	0	21.81
64QAM	2498.5	39675	5	12	7	21.72
64QAM	2498.5	39675	5	12	13	21.75
64QAM	2498.5	39675	5	25	0	21.86
64QAM	2593	40620	5	1	0	23.04
64QAM	2593	40620	5	1	12	22.60
64QAM	2593	40620	5	1	24	22.68
64QAM	2593	40620	5	12	0	21.63
64QAM	2593	40620	5	12	7	21.52
64QAM	2593	40620	5	12	13	21.44
64QAM	2593	40620	5	25	0	21.39
64QAM	2687.5	41565	5	1	0	22.50
64QAM	2687.5	41565	5	1	12	22.52
64QAM	2687.5	41565	5	1	24	22.47
64QAM	2687.5	41565	5	12	0	21.25
64QAM	2687.5	41565	5	12	7	21.27
64QAM	2687.5	41565	5	12	13	21.23
64QAM	2687.5	41565	5	25	0	21.12

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2501	39700	10	1	0	23.68
QPSK	2501	39700	10	1	25	23.59
QPSK	2501	39700	10	1	49	23.90
QPSK	2501	39700	10	25	0	22.64
QPSK	2501	39700	10	25	12	22.73
QPSK	2501	39700	10	25	25	22.72
QPSK	2501	39700	10	50	0	22.65
QPSK	2593	40620	10	1	0	23.79
QPSK	2593	40620	10	1	25	23.32
QPSK	2593	40620	10	1	49	23.34
QPSK	2593	40620	10	25	0	22.46
QPSK	2593	40620	10	25	12	22.51
QPSK	2593	40620	10	25	25	22.48
QPSK	2593	40620	10	50	0	22.41
QPSK	2685	41540	10	1	0	23.25
QPSK	2685	41540	10	1	25	23.42
QPSK	2685	41540	10	1	49	23.30
QPSK	2685	41540	10	25	0	22.16
QPSK	2685	41540	10	25	12	22.13
QPSK	2685	41540	10	25	25	22.20
QPSK	2685	41540	10	50	0	22.14

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2501	39700	10	1	0	23.17
16QAM	2501	39700	10	1	25	23.16
16QAM	2501	39700	10	1	49	23.42
16QAM	2501	39700	10	25	0	21.69
16QAM	2501	39700	10	25	12	21.76
16QAM	2501	39700	10	25	25	21.89
16QAM	2501	39700	10	50	0	21.67
16QAM	2593	40620	10	1	0	23.06
16QAM	2593	40620	10	1	25	22.87
16QAM	2593	40620	10	1	49	22.94
16QAM	2593	40620	10	25	0	21.60
16QAM	2593	40620	10	25	12	21.52
16QAM	2593	40620	10	25	25	21.50
16QAM	2593	40620	10	50	0	21.58
16QAM	2685	41540	10	1	0	22.81
16QAM	2685	41540	10	1	25	23.03
16QAM	2685	41540	10	1	49	22.57
16QAM	2685	41540	10	25	0	21.28
16QAM	2685	41540	10	25	12	21.26
16QAM	2685	41540	10	25	25	21.32
16QAM	2685	41540	10	50	0	21.19
64QAM	2501	39700	10	1	0	22.52
64QAM	2501	39700	10	1	25	22.61
64QAM	2501	39700	10	1	49	22.59
64QAM	2501	39700	10	25	0	21.67
64QAM	2501	39700	10	25	12	21.82
64QAM	2501	39700	10	25	25	21.68
64QAM	2501	39700	10	50	0	21.76
64QAM	2593	40620	10	1	0	22.83
64QAM	2593	40620	10	1	25	22.96
64QAM	2593	40620	10	1	49	22.53
64QAM	2593	40620	10	25	0	21.52
64QAM	2593	40620	10	25	12	21.51
64QAM	2593	40620	10	25	25	21.50
64QAM	2593	40620	10	50	0	21.39
64QAM	2685	41540	10	1	0	22.45
64QAM	2685	41540	10	1	25	22.28
64QAM	2685	41540	10	1	49	22.19
64QAM	2685	41540	10	25	0	21.21
64QAM	2685	41540	10	25	12	21.22
64QAM	2685	41540	10	25	25	21.28
64QAM	2685	41540	10	50	0	21.19

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2503.5	39725	15	1	0	24.08
QPSK	2503.5	39725	15	1	37	24.21
QPSK	2503.5	39725	15	1	74	23.39
QPSK	2503.5	39725	15	36	0	22.46
QPSK	2503.5	39725	15	36	29	22.55
QPSK	2503.5	39725	15	36	30	22.56
QPSK	2503.5	39725	15	75	0	22.75
QPSK	2593	40620	15	1	0	23.38
QPSK	2593	40620	15	1	37	23.27
QPSK	2593	40620	15	1	74	23.04
QPSK	2593	40620	15	36	0	22.44
QPSK	2593	40620	15	36	29	22.39
QPSK	2593	40620	15	36	30	22.37
QPSK	2593	40620	15	75	0	22.29
QPSK	2682.5	41515	15	1	0	23.65
QPSK	2682.5	41515	15	1	37	22.91
QPSK	2682.5	41515	15	1	74	23.52
QPSK	2682.5	41515	15	36	0	22.15
QPSK	2682.5	41515	15	36	29	22.09
QPSK	2682.5	41515	15	36	30	22.10
QPSK	2682.5	41515	15	75	0	22.12

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2503.5	39725	15	1	0	22.59
16QAM	2503.5	39725	15	1	37	23.04
16QAM	2503.5	39725	15	1	74	22.93
16QAM	2503.5	39725	15	36	0	21.46
16QAM	2503.5	39725	15	36	29	21.63
16QAM	2503.5	39725	15	36	30	21.60
16QAM	2503.5	39725	15	75	0	21.54
16QAM	2593	40620	15	1	0	22.49
16QAM	2593	40620	15	1	37	22.16
16QAM	2593	40620	15	1	74	23.05
16QAM	2593	40620	15	36	0	21.61
16QAM	2593	40620	15	36	29	21.40
16QAM	2593	40620	15	36	30	21.45
16QAM	2593	40620	15	75	0	21.41
16QAM	2682.5	41515	15	1	0	22.32
16QAM	2682.5	41515	15	1	37	23.13
16QAM	2682.5	41515	15	1	74	22.64
16QAM	2682.5	41515	15	36	0	21.29
16QAM	2682.5	41515	15	36	29	21.13
16QAM	2682.5	41515	15	36	30	21.22
16QAM	2682.5	41515	15	75	0	21.15
64QAM	2503.5	39725	15	1	0	22.33
64QAM	2503.5	39725	15	1	37	22.48
64QAM	2503.5	39725	15	1	74	22.74
64QAM	2503.5	39725	15	36	0	21.47
64QAM	2503.5	39725	15	36	29	21.66
64QAM	2503.5	39725	15	36	30	21.58
64QAM	2503.5	39725	15	75	0	21.64
64QAM	2593	40620	15	1	0	23.07
64QAM	2593	40620	15	1	37	22.44
64QAM	2593	40620	15	1	74	22.57
64QAM	2593	40620	15	36	0	21.50
64QAM	2593	40620	15	36	29	21.31
64QAM	2593	40620	15	36	30	21.49
64QAM	2593	40620	15	75	0	21.38
64QAM	2682.5	41515	15	1	0	22.76
64QAM	2682.5	41515	15	1	37	22.10
64QAM	2682.5	41515	15	1	74	21.76
64QAM	2682.5	41515	15	36	0	21.25
64QAM	2682.5	41515	15	36	29	21.18
64QAM	2682.5	41515	15	36	30	21.16
64QAM	2682.5	41515	15	75	0	21.09

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2506	39750	20	1	0	23.29
QPSK	2506	39750	20	1	49	23.48
QPSK	2506	39750	20	1	99	23.54
QPSK	2506	39750	20	50	0	22.59
QPSK	2506	39750	20	50	24	22.69
QPSK	2506	39750	20	50	50	22.81
QPSK	2506	39750	20	100	0	22.74
QPSK	2593	40620	20	1	0	24.29
QPSK	2593	40620	20	1	49	24.00
QPSK	2593	40620	20	1	99	23.31
QPSK	2593	40620	20	50	0	22.48
QPSK	2593	40620	20	50	24	22.38
QPSK	2593	40620	20	50	50	22.35
QPSK	2593	40620	20	100	0	22.40
QPSK	2680	41490	20	1	0	23.27
QPSK	2680	41490	20	1	49	23.67
QPSK	2680	41490	20	1	99	23.48
QPSK	2680	41490	20	50	0	22.20
QPSK	2680	41490	20	50	24	22.11
QPSK	2680	41490	20	50	50	22.13
QPSK	2680	41490	20	100	0	22.09

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2506	39750	20	1	0	22.91
16QAM	2506	39750	20	1	49	23.79
16QAM	2506	39750	20	1	99	23.25
16QAM	2506	39750	20	50	0	21.64
16QAM	2506	39750	20	50	24	21.75
16QAM	2506	39750	20	50	50	21.65
16QAM	2506	39750	20	100	0	21.75
16QAM	2593	40620	20	1	0	23.10
16QAM	2593	40620	20	1	49	22.53
16QAM	2593	40620	20	1	99	22.76
16QAM	2593	40620	20	50	0	21.57
16QAM	2593	40620	20	50	24	21.51
16QAM	2593	40620	20	50	50	21.29
16QAM	2593	40620	20	100	0	21.43
16QAM	2680	41490	20	1	0	22.71
16QAM	2680	41490	20	1	49	22.13
16QAM	2680	41490	20	1	99	21.93
16QAM	2680	41490	20	50	0	21.26
16QAM	2680	41490	20	50	24	21.18
16QAM	2680	41490	20	50	50	21.16
16QAM	2680	41490	20	100	0	21.14
64QAM	2506	39750	20	1	0	22.85
64QAM	2506	39750	20	1	49	22.73
64QAM	2506	39750	20	1	99	23.86
64QAM	2506	39750	20	50	0	21.60
64QAM	2506	39750	20	50	24	21.68
64QAM	2506	39750	20	50	50	21.75
64QAM	2506	39750	20	100	0	21.68
64QAM	2593	40620	20	1	0	22.52
64QAM	2593	40620	20	1	49	22.78
64QAM	2593	40620	20	1	99	22.49
64QAM	2593	40620	20	50	0	21.52
64QAM	2593	40620	20	50	24	21.41
64QAM	2593	40620	20	50	50	21.41
64QAM	2593	40620	20	100	0	21.35
64QAM	2680	41490	20	1	0	22.48
64QAM	2680	41490	20	1	49	22.18
64QAM	2680	41490	20	1	99	21.92
64QAM	2680	41490	20	50	0	21.12
64QAM	2680	41490	20	50	24	21.14
64QAM	2680	41490	20	50	50	21.16
64QAM	2680	41490	20	100	0	21.17

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
41	QPSK	2498.5	39675	5	25	0	4.467	Fig.1
41	QPSK	2593	40620	5	25	0	4.504	Fig.2
41	QPSK	2687.5	41565	5	25	0	4.469	Fig.3
41	QPSK	2501	39700	10	50	0	8.909	Fig.4
41	QPSK	2593	40620	10	50	0	8.907	Fig.5
41	QPSK	2685	41540	10	50	0	8.925	Fig.6
41	QPSK	2503.5	39725	15	75	0	13.496	Fig.7
41	QPSK	2593	40620	15	75	0	13.327	Fig.8
41	QPSK	2682.5	41515	15	75	0	13.407	Fig.9
41	QPSK	2506	39750	20	100	0	17.800	Fig.10
41	QPSK	2593	40620	20	100	0	17.904	Fig.11
41	QPSK	2680	41490	20	100	0	17.844	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
41	16QAM	2498.5	39675	5	25	0	4.473	Fig.13
41	16QAM	2593	40620	5	25	0	4.442	Fig.14
41	16QAM	2687.5	41565	5	25	0	4.495	Fig.15
41	16QAM	2501	39700	10	50	0	8.909	Fig.16
41	16QAM	2593	40620	10	50	0	8.893	Fig.17
41	16QAM	2685	41540	10	50	0	8.889	Fig.18
41	16QAM	2503.5	39725	15	75	0	13.218	Fig.19
41	16QAM	2593	40620	15	75	0	13.405	Fig.20
41	16QAM	2682.5	41515	15	75	0	13.443	Fig.21
41	16QAM	2506	39750	20	100	0	17.769	Fig.22
41	16QAM	2593	40620	20	100	0	17.865	Fig.23
41	16QAM	2680	41490	20	100	0	17.689	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
41	64QAM	2498.5	39675	5	25	0	4.414	Fig.25
41	64QAM	2593	40620	5	25	0	4.453	Fig.26
41	64QAM	2687.5	41565	5	25	0	4.445	Fig.27
41	64QAM	2501	39700	10	50	0	8.911	Fig.28
41	64QAM	2593	40620	10	50	0	8.901	Fig.29
41	64QAM	2685	41540	10	50	0	8.941	Fig.30
41	64QAM	2503.5	39725	15	75	0	13.296	Fig.31
41	64QAM	2593	40620	15	75	0	13.307	Fig.32
41	64QAM	2682.5	41515	15	75	0	13.388	Fig.33
41	64QAM	2506	39750	20	100	0	17.825	Fig.34
41	64QAM	2593	40620	20	100	0	17.719	Fig.35
41	64QAM	2680	41490	20	100	0	17.846	Fig.36

Test Mode: QPSK

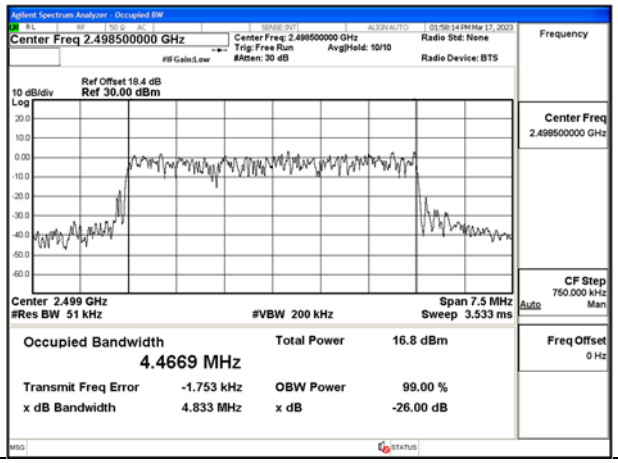


Fig.1

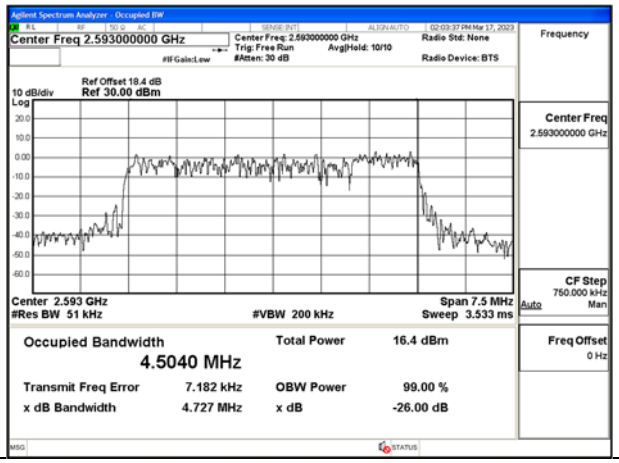


Fig.2

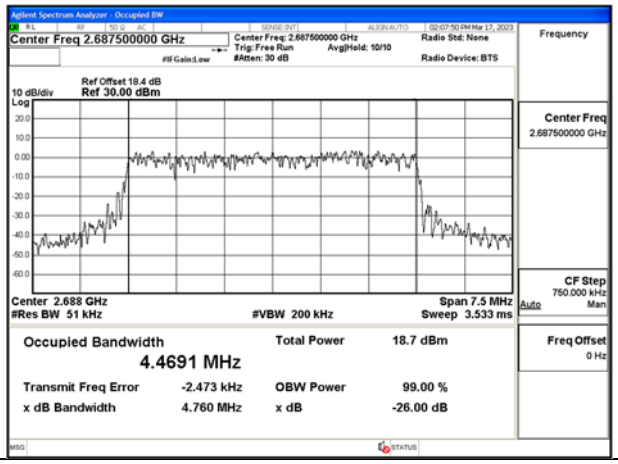


Fig.3

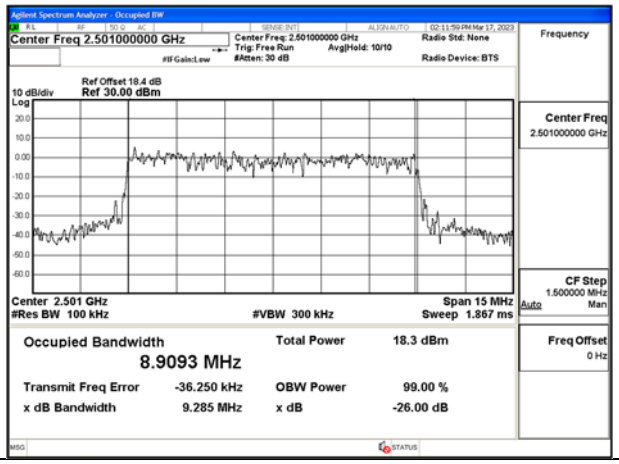


Fig.4

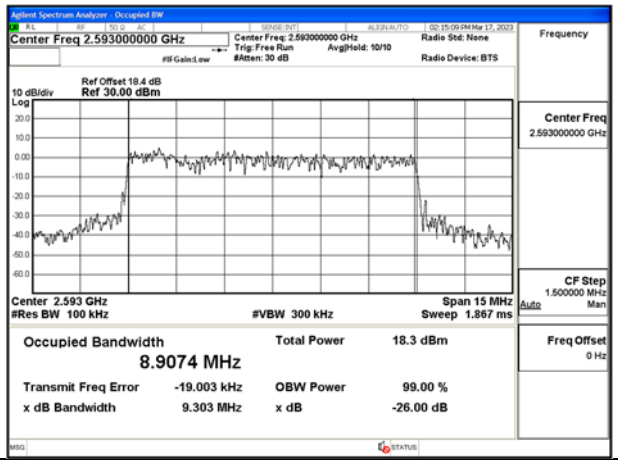


Fig.5

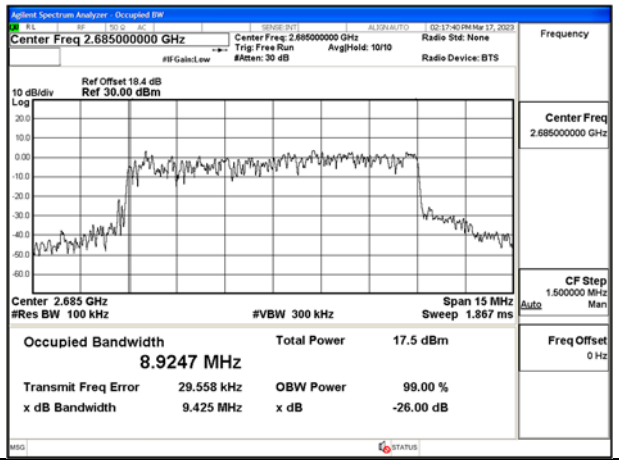


Fig.6

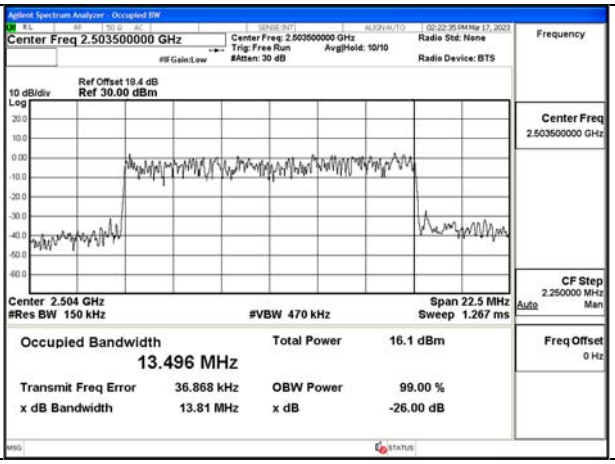


Fig.7

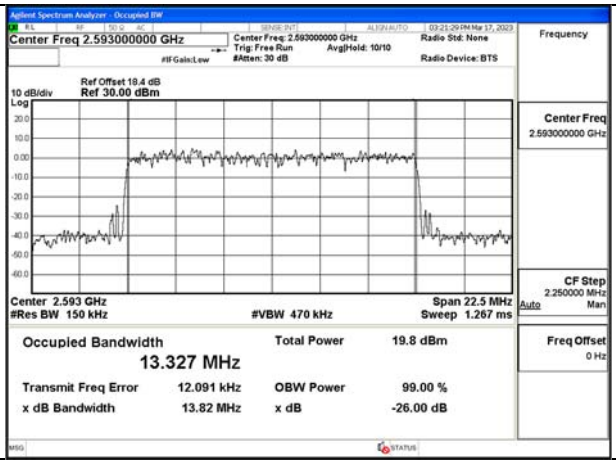


Fig.8

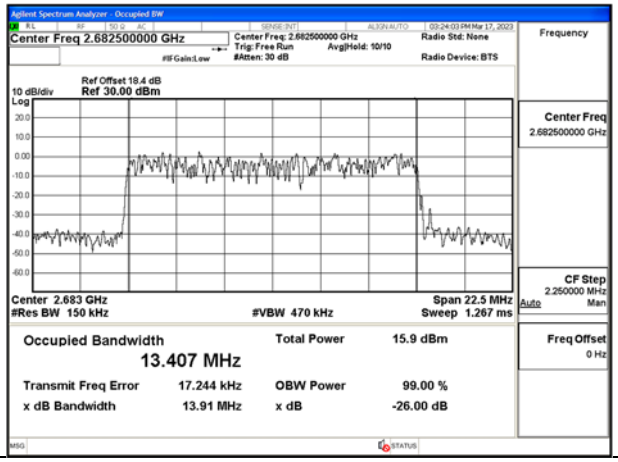


Fig.9

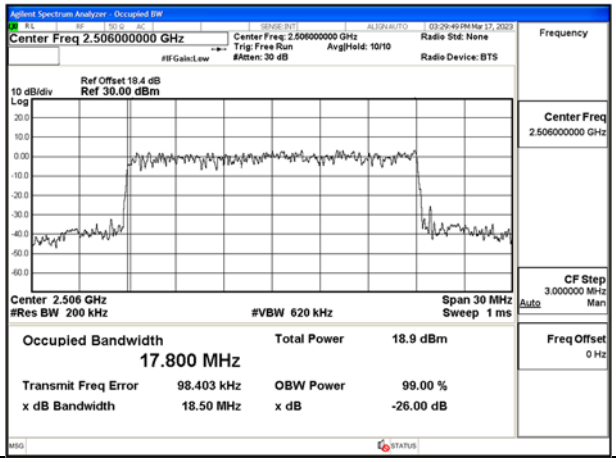


Fig.10

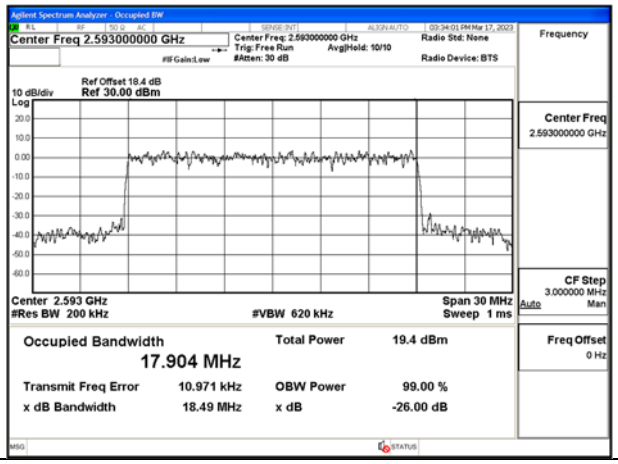


Fig.11

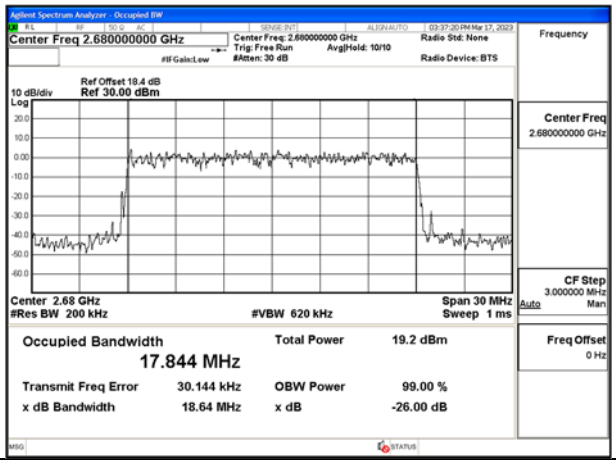


Fig.12

Test Mode: 16QAM

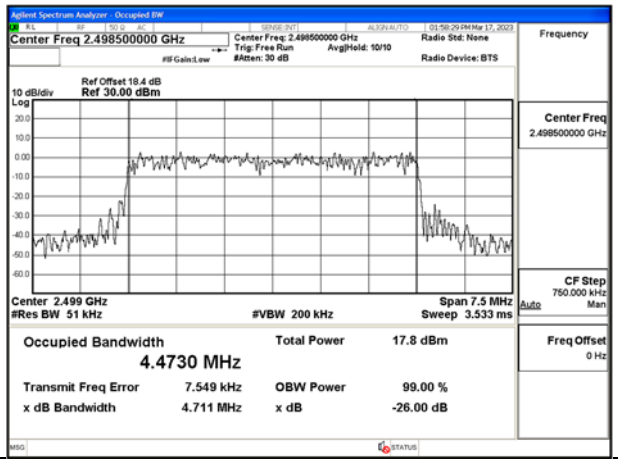


Fig.13

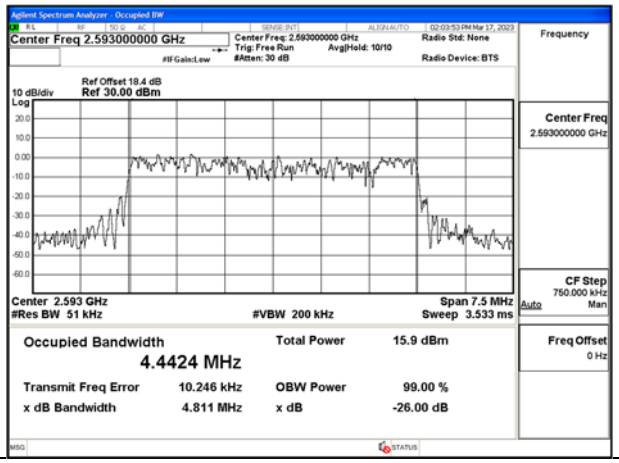
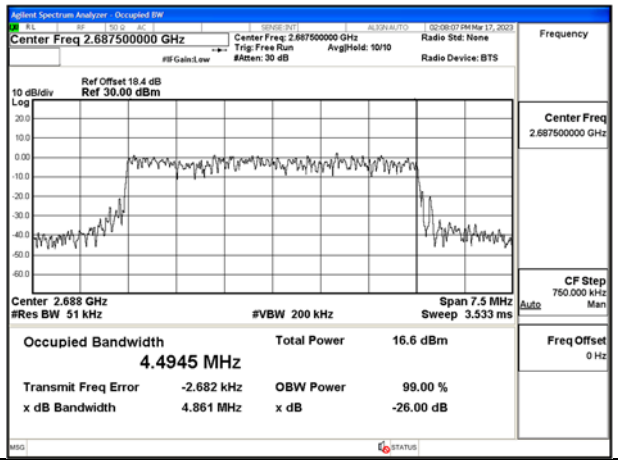


Fig.14



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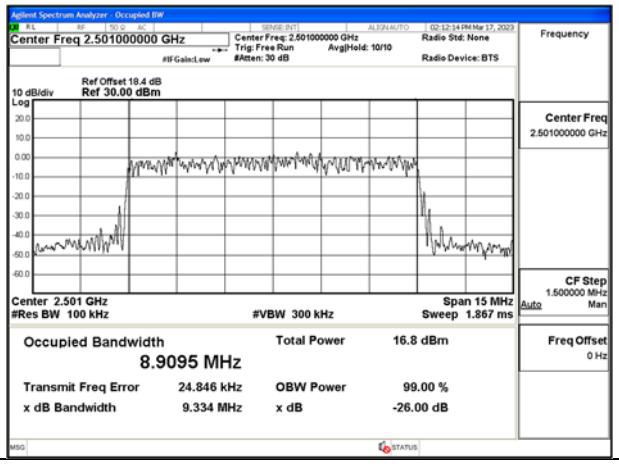
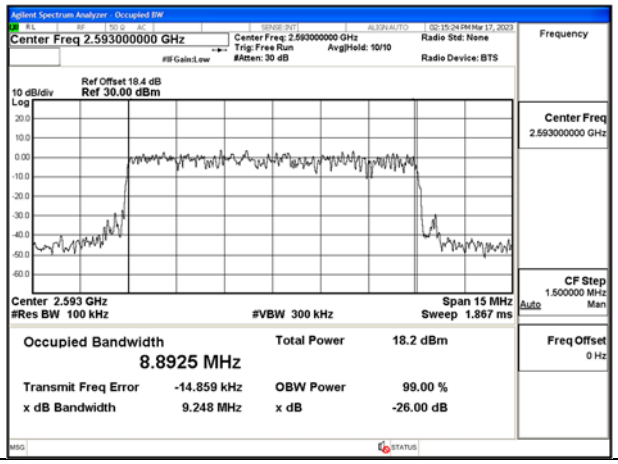


Fig.16



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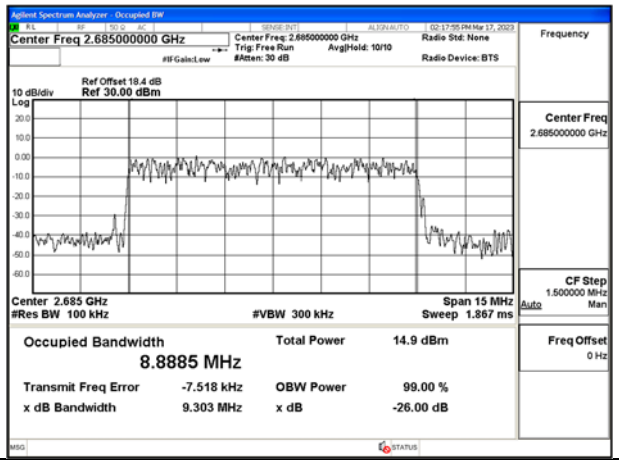
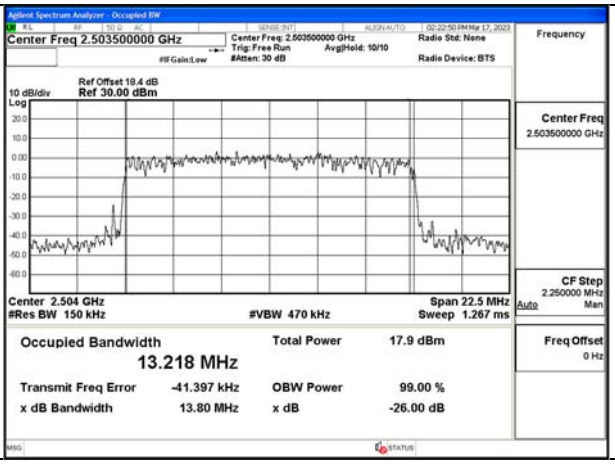


Fig.18



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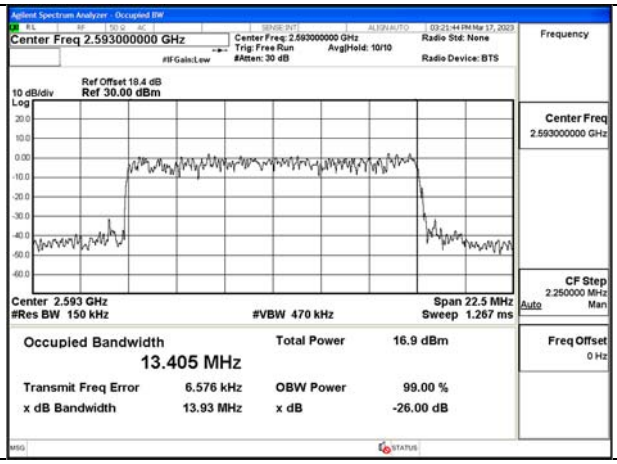

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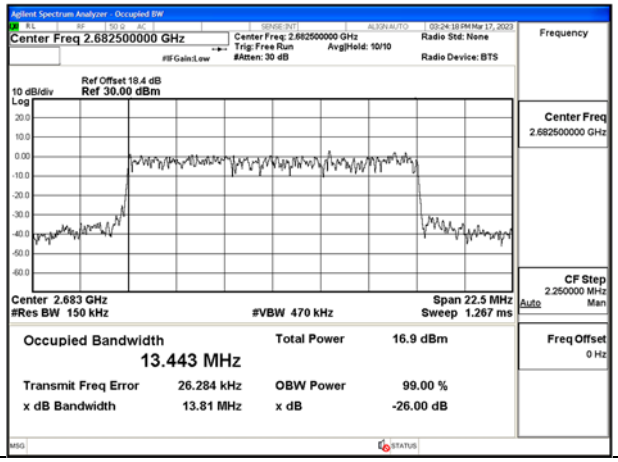

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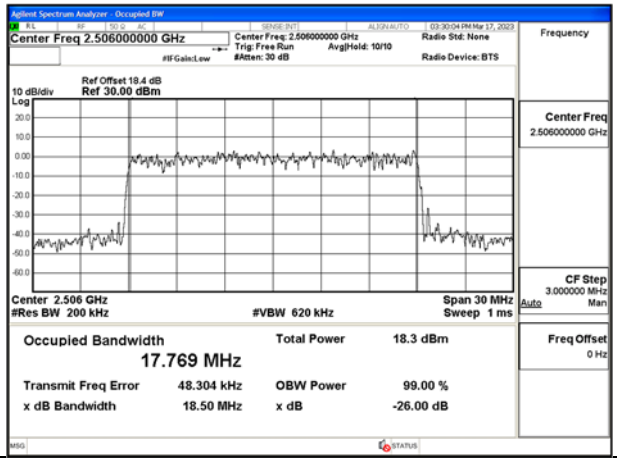

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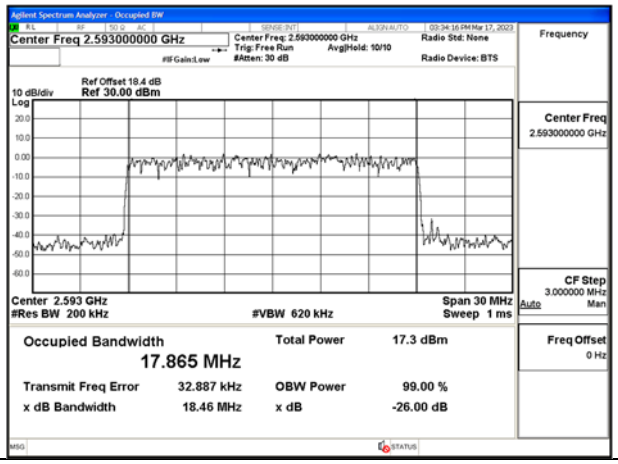


Fig.23

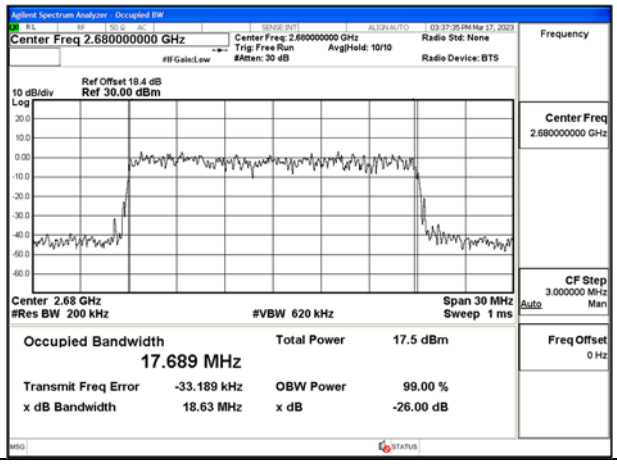


Fig.24

Test Mode: 64QAM

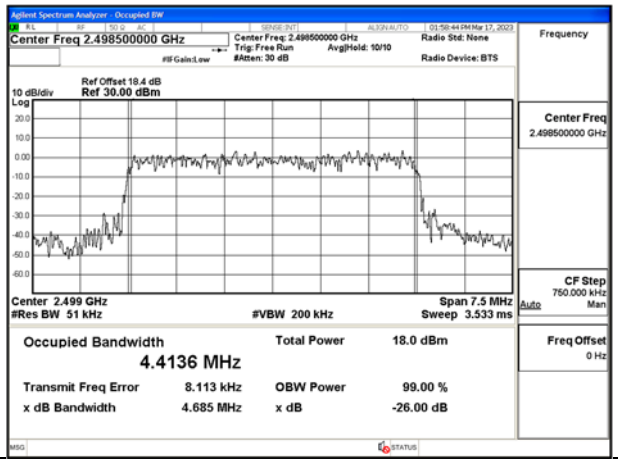


Fig.25

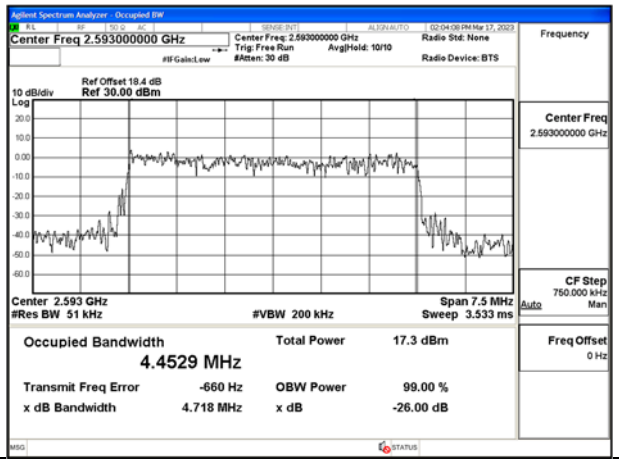


Fig.26

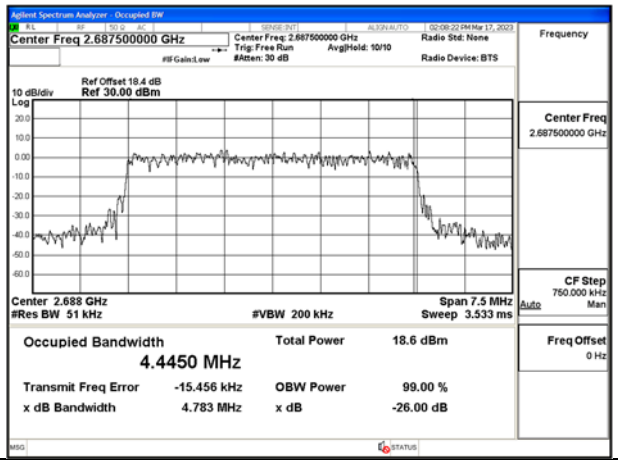


Fig.27

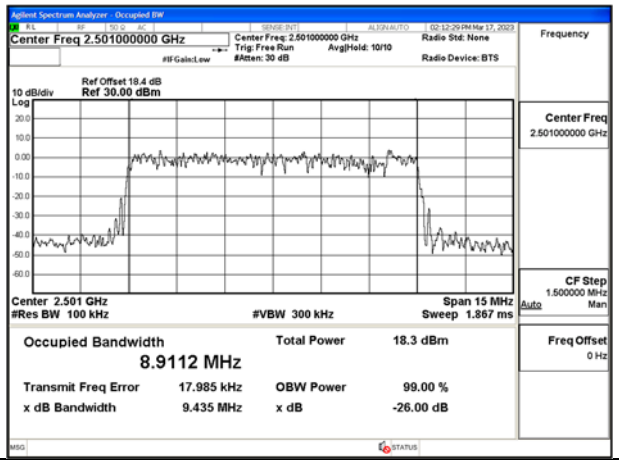
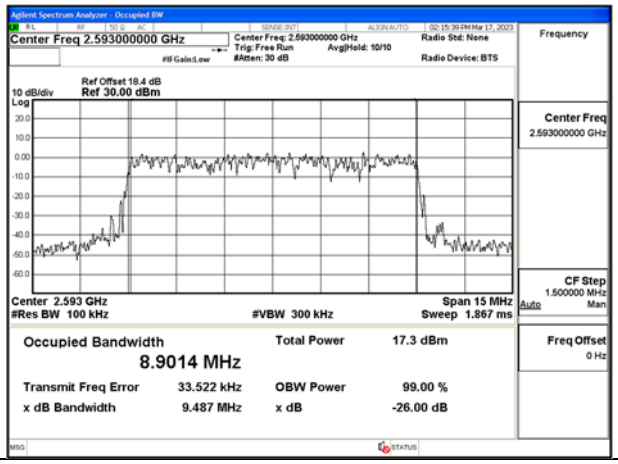


Fig.28



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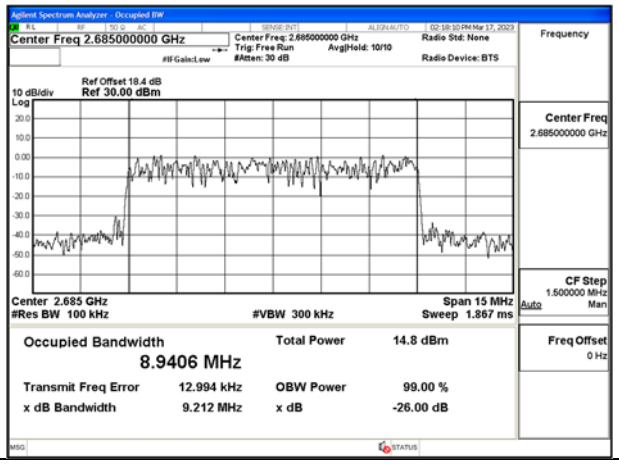


Fig.30

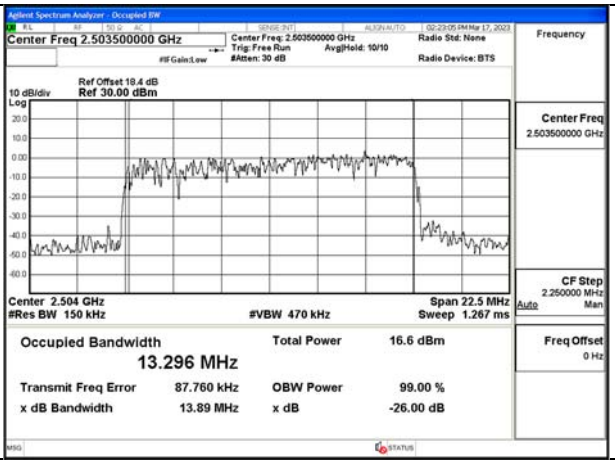


Fig.31

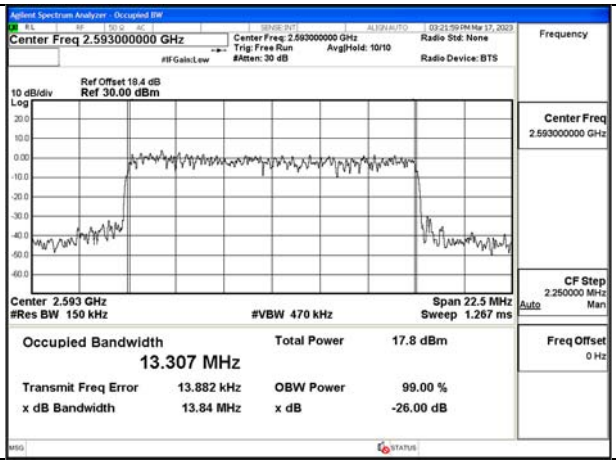


Fig.32

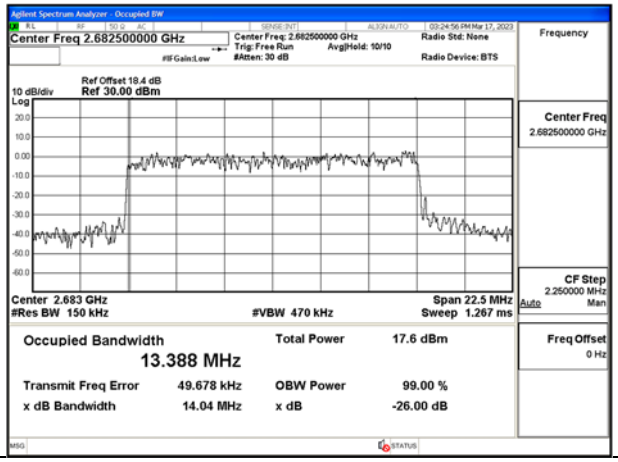


Fig.33

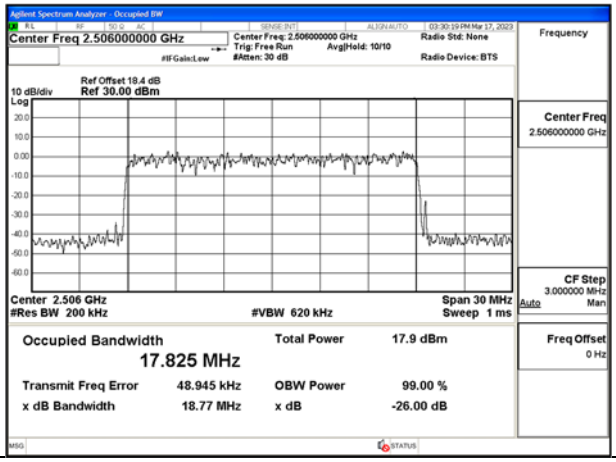


Fig.34

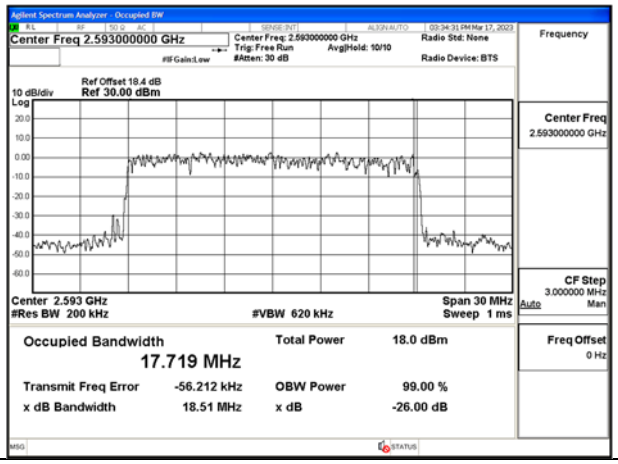


Fig.35

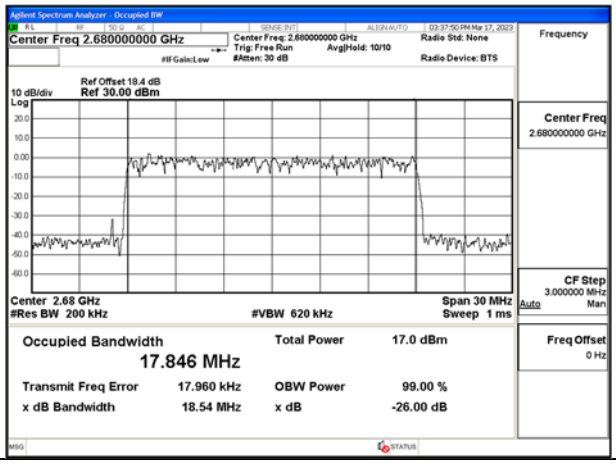


Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
41	QPSK	2498.5	39675	5	25	0	4.833	Fig.1
41	QPSK	2593	40620	5	25	0	4.727	Fig.2
41	QPSK	2687.5	41565	5	25	0	4.760	Fig.3
41	QPSK	2501	39700	10	50	0	9.285	Fig.4
41	QPSK	2593	40620	10	50	0	9.303	Fig.5
41	QPSK	2685	41540	10	50	0	9.425	Fig.6
41	QPSK	2503.5	39725	15	75	0	13.807	Fig.7
41	QPSK	2593	40620	15	75	0	13.822	Fig.8
41	QPSK	2682.5	41515	15	75	0	13.912	Fig.9
41	QPSK	2506	39750	20	100	0	18.496	Fig.10
41	QPSK	2593	40620	20	100	0	18.488	Fig.11
41	QPSK	2680	41490	20	100	0	18.644	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
41	16QAM	2498.5	39675	5	25	0	4.711	Fig.13
41	16QAM	2593	40620	5	25	0	4.811	Fig.14
41	16QAM	2687.5	41565	5	25	0	4.861	Fig.15
41	16QAM	2501	39700	10	50	0	9.334	Fig.16
41	16QAM	2593	40620	10	50	0	9.248	Fig.17
41	16QAM	2685	41540	10	50	0	9.303	Fig.18
41	16QAM	2503.5	39725	15	75	0	13.795	Fig.19
41	16QAM	2593	40620	15	75	0	13.925	Fig.20
41	16QAM	2682.5	41515	15	75	0	13.811	Fig.21
41	16QAM	2506	39750	20	100	0	18.499	Fig.22
41	16QAM	2593	40620	20	100	0	18.459	Fig.23
41	16QAM	2680	41490	20	100	0	18.633	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
41	64QAM	2498.5	39675	5	25	0	4.685	Fig.25
41	64QAM	2593	40620	5	25	0	4.718	Fig.26
41	64QAM	2687.5	41565	5	25	0	4.783	Fig.27
41	64QAM	2501	39700	10	50	0	9.435	Fig.28
41	64QAM	2593	40620	10	50	0	9.487	Fig.29
41	64QAM	2685	41540	10	50	0	9.212	Fig.30
41	64QAM	2503.5	39725	15	75	0	13.893	Fig.31
41	64QAM	2593	40620	15	75	0	13.845	Fig.32
41	64QAM	2682.5	41515	15	75	0	14.043	Fig.33
41	64QAM	2506	39750	20	100	0	18.769	Fig.34
41	64QAM	2593	40620	20	100	0	18.507	Fig.35
41	64QAM	2680	41490	20	100	0	18.536	Fig.36

Test Mode: QPSK

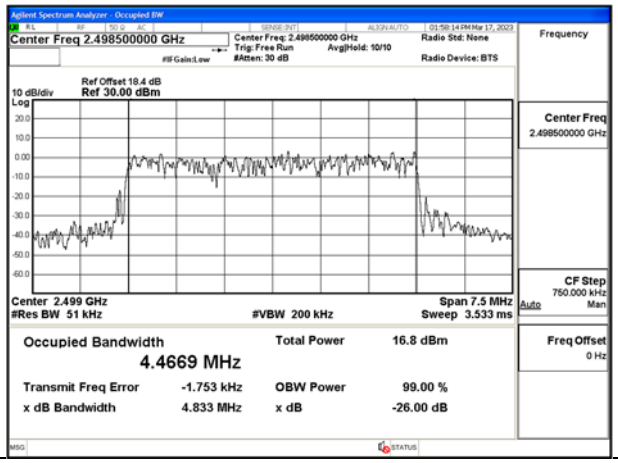


Fig.1

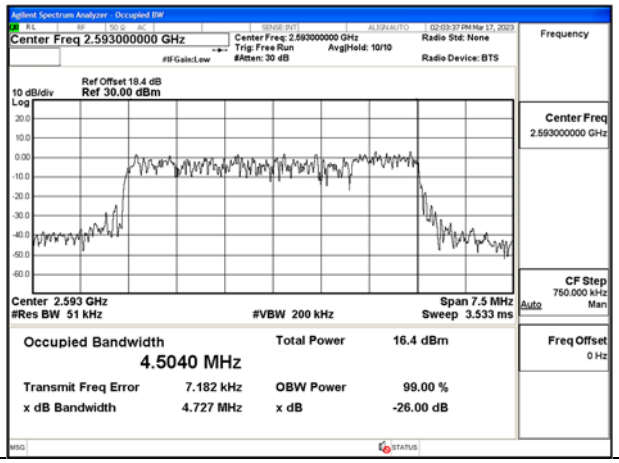


Fig.2

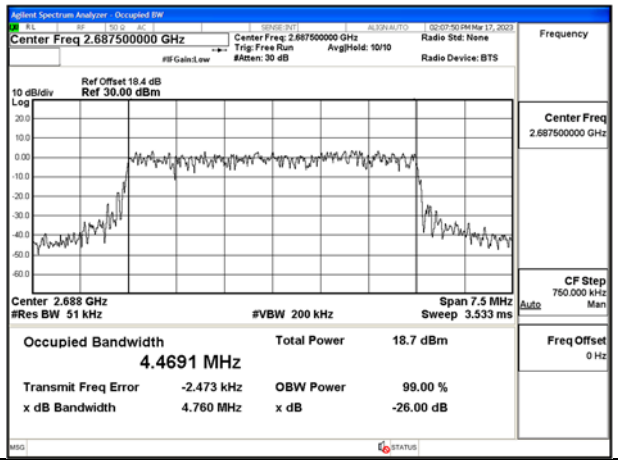


Fig.3

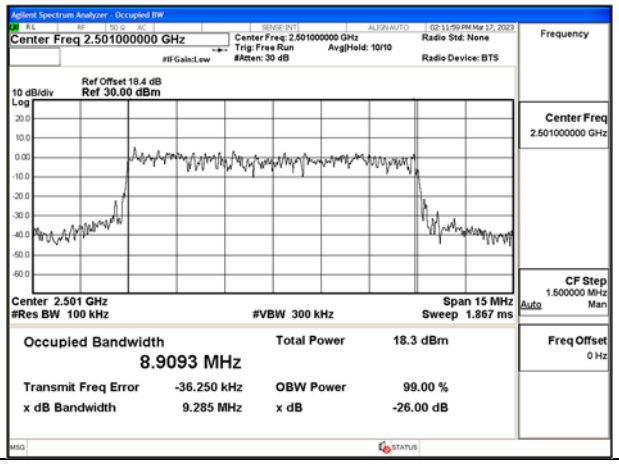


Fig.4

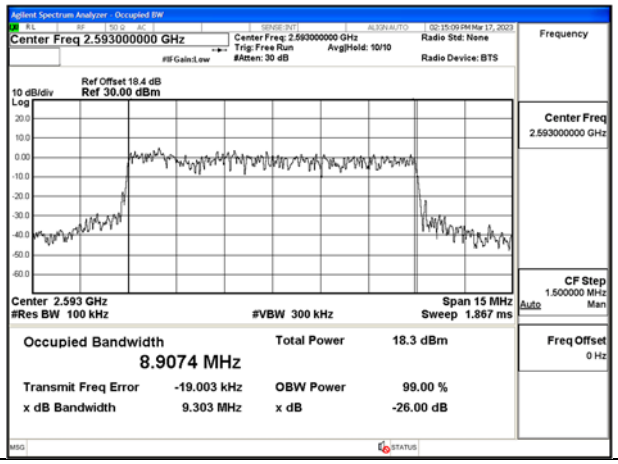


Fig.5

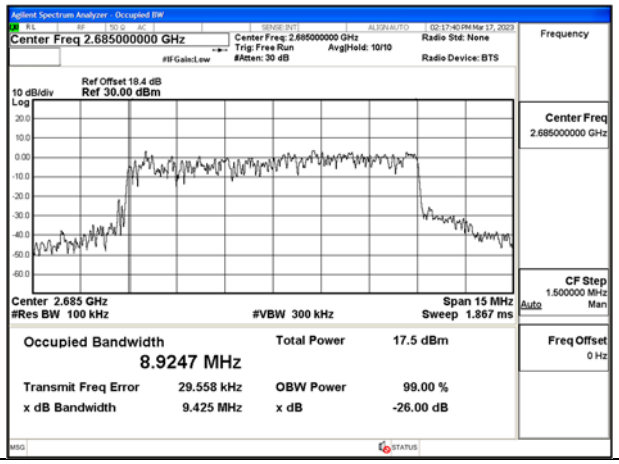


Fig.6

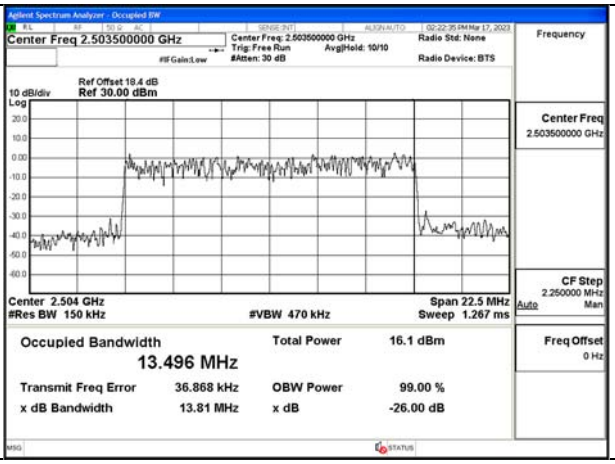


Fig.7

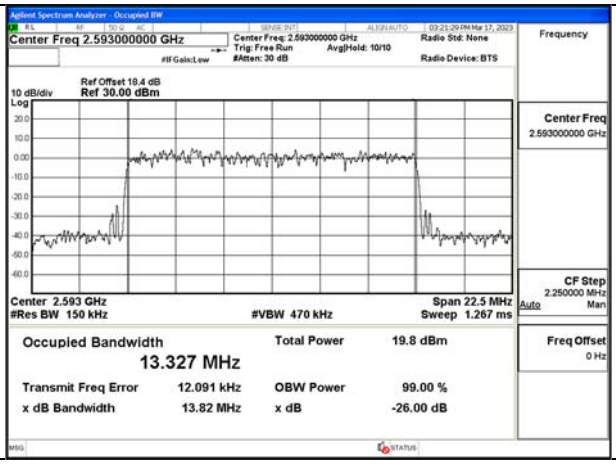


Fig.8

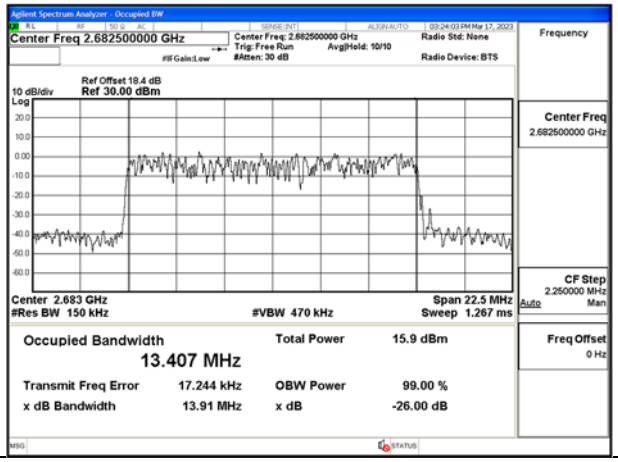


Fig.9

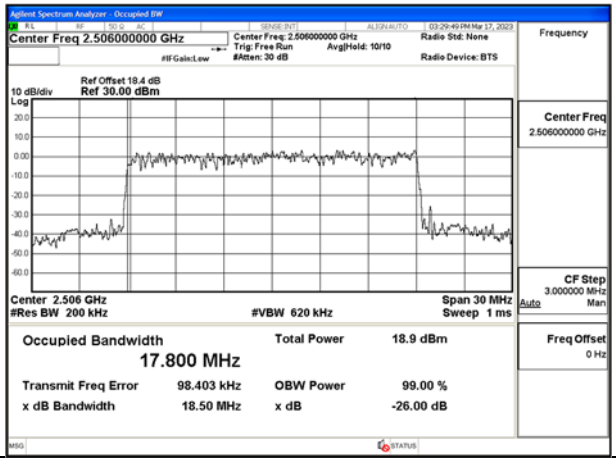


Fig.10

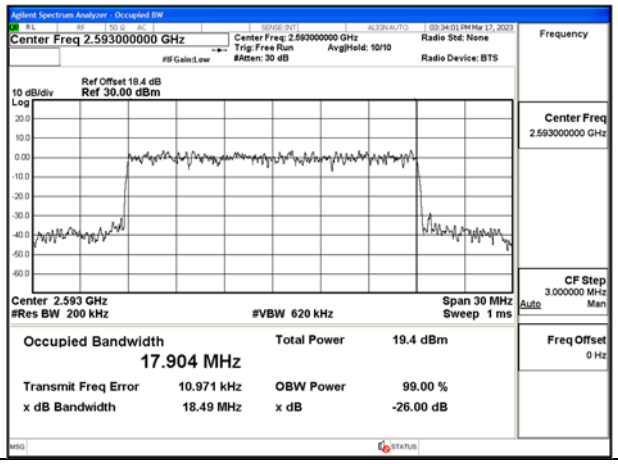


Fig.11

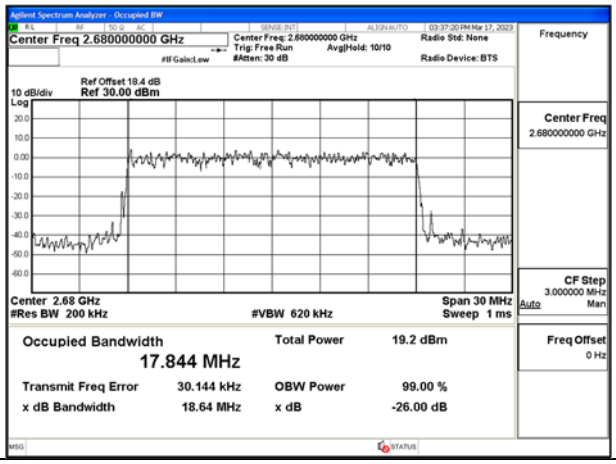


Fig.12

Test Mode: 16QAM

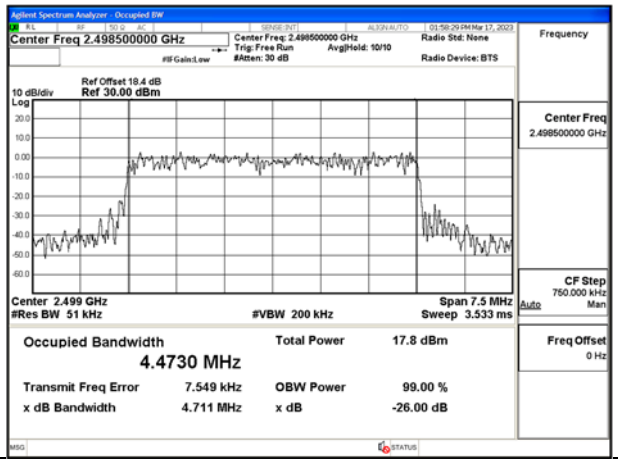


Fig.13

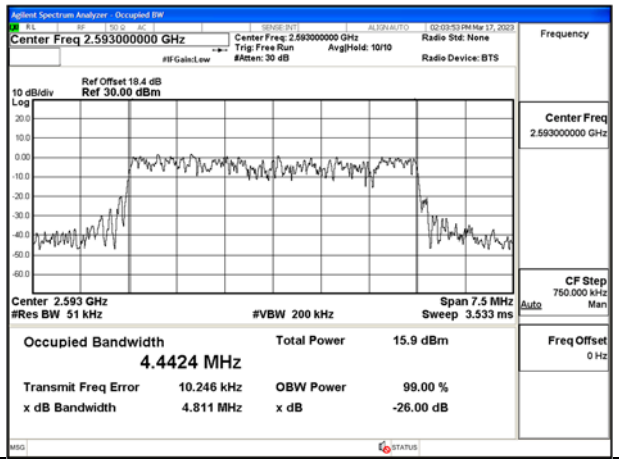


Fig.14

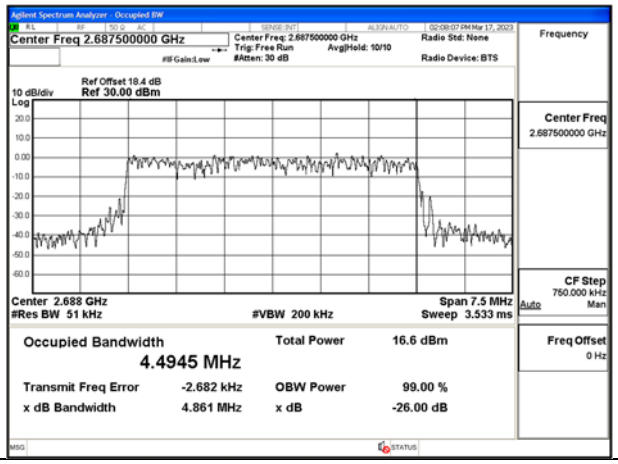


Fig.15

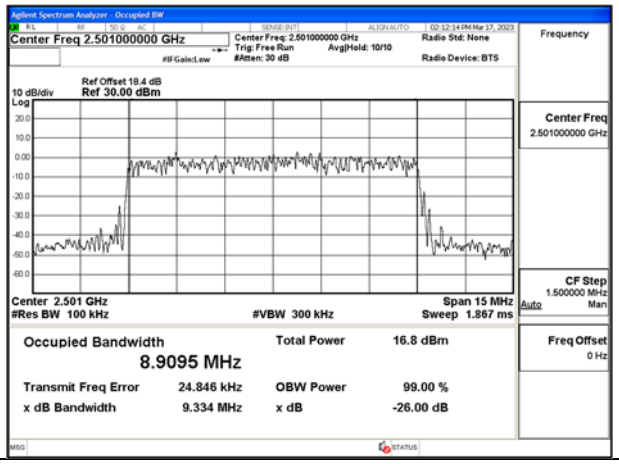


Fig.16

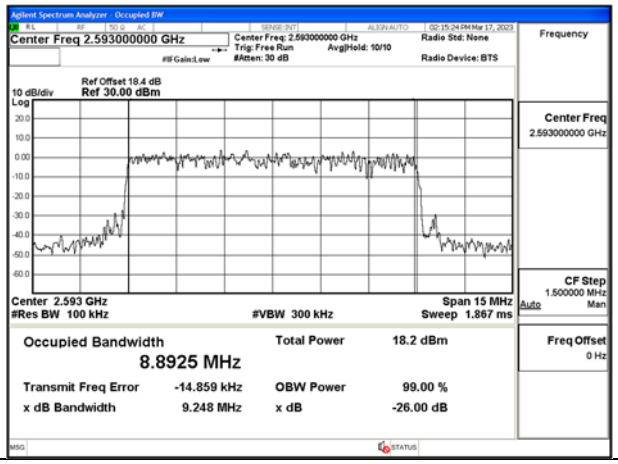


Fig.17

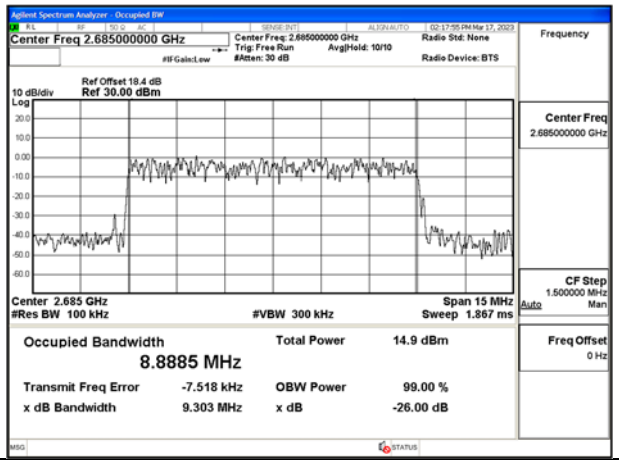


Fig.18

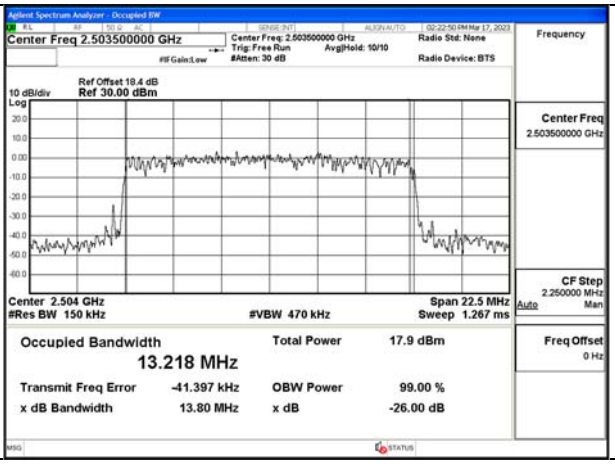


Fig.19

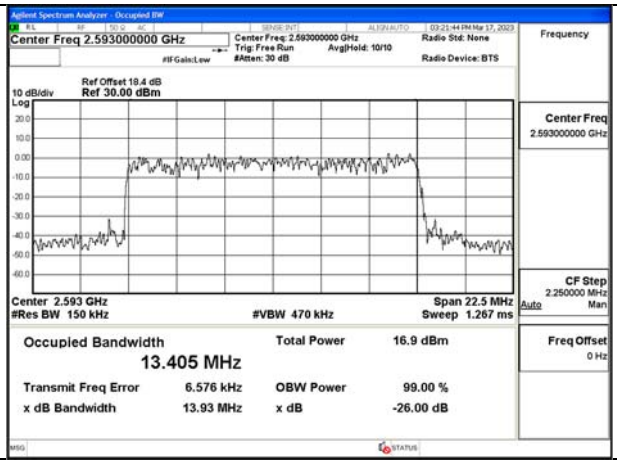
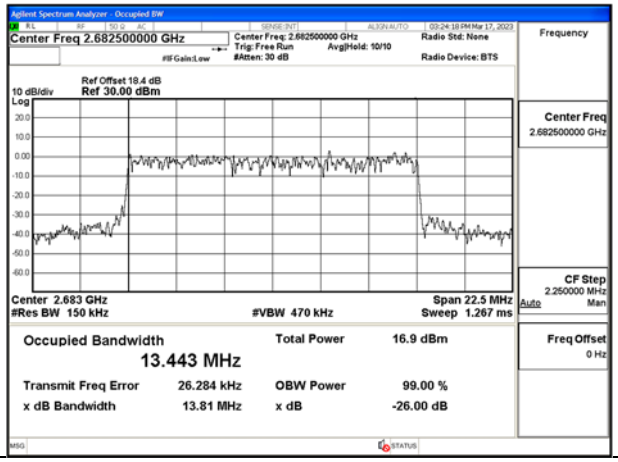


Fig.20



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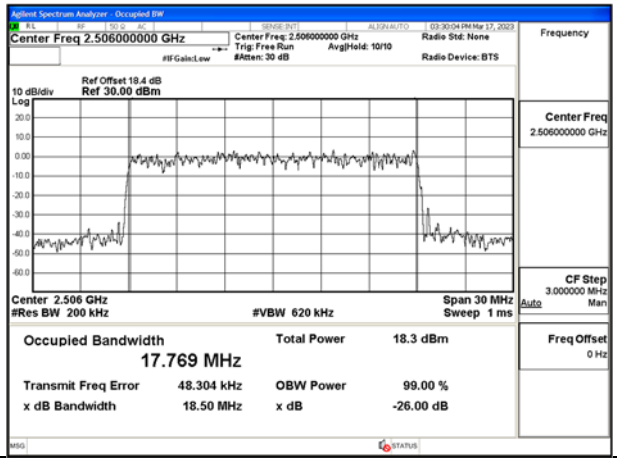

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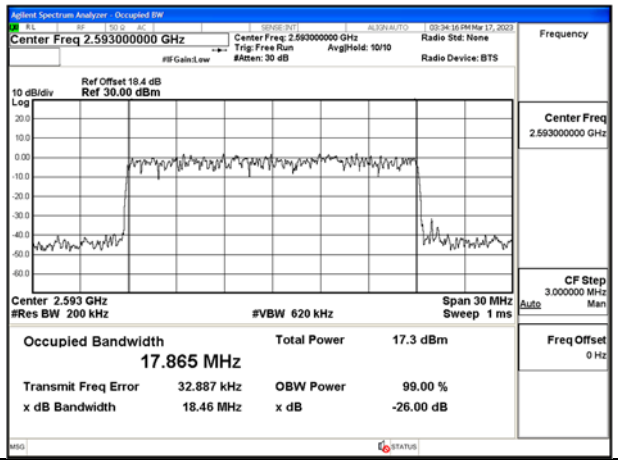

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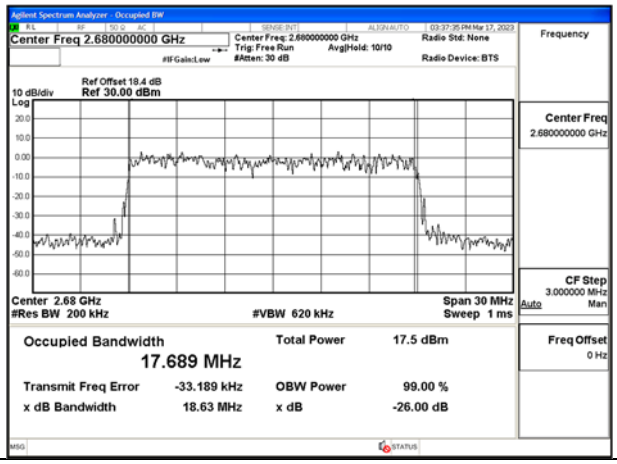
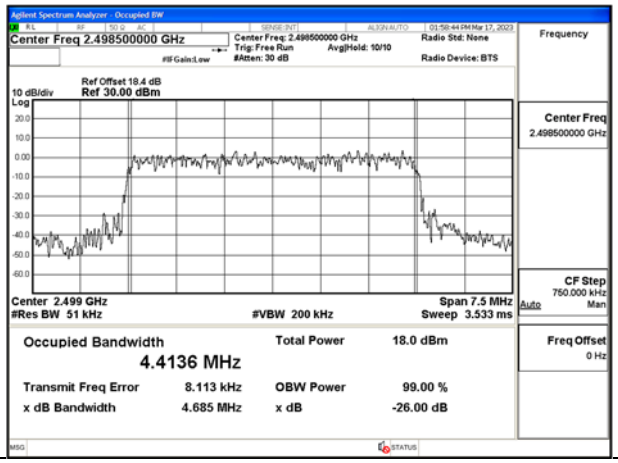


Fig.24

Test Mode: 64QAM



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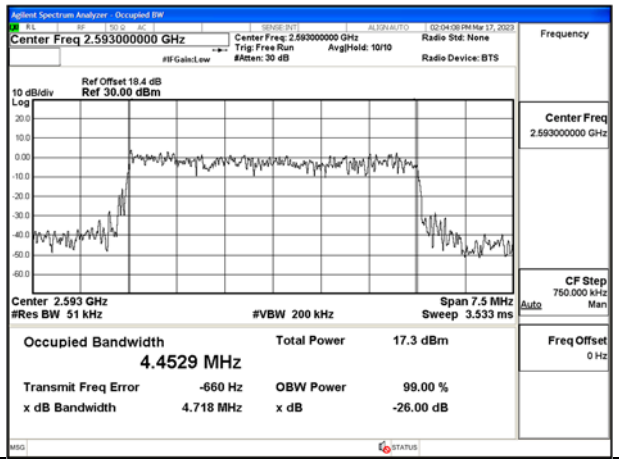

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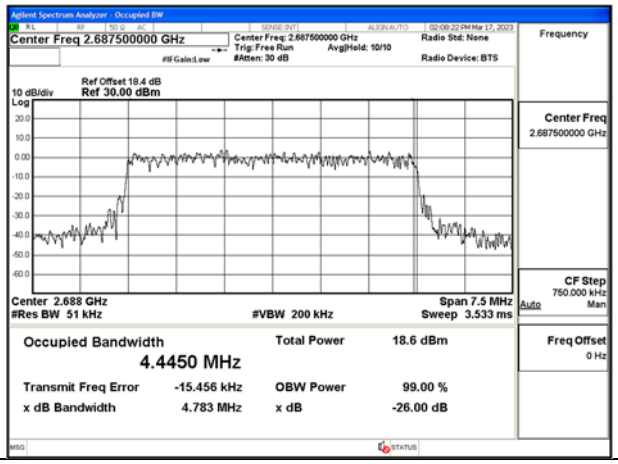

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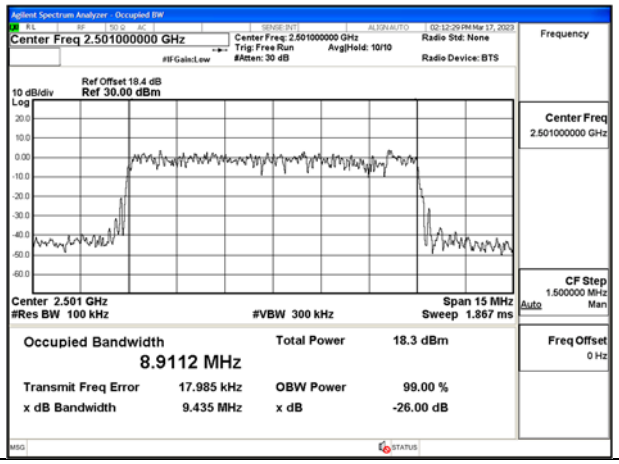

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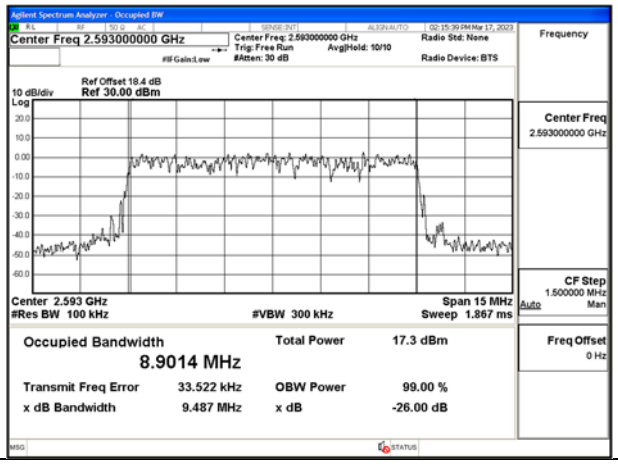

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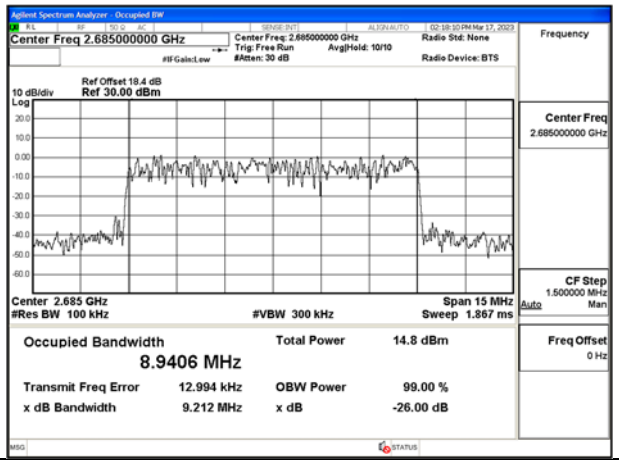

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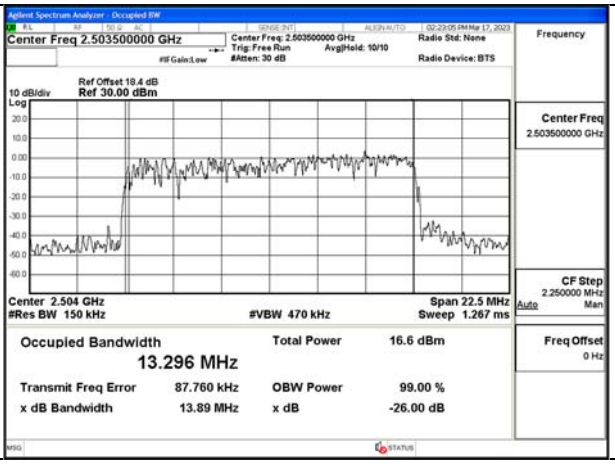

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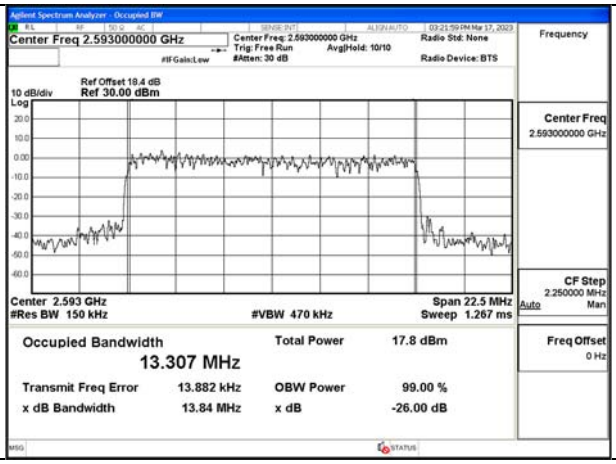

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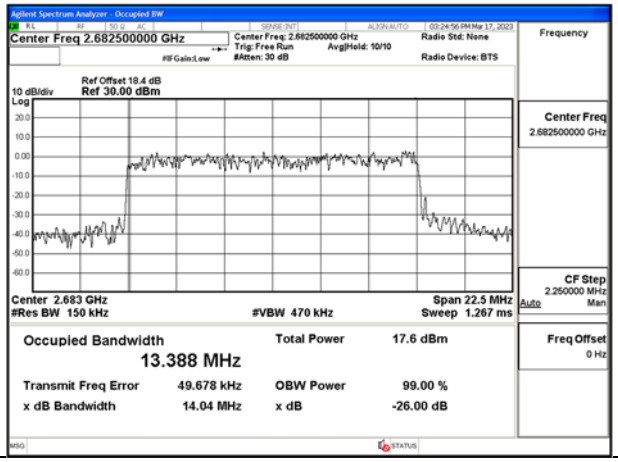

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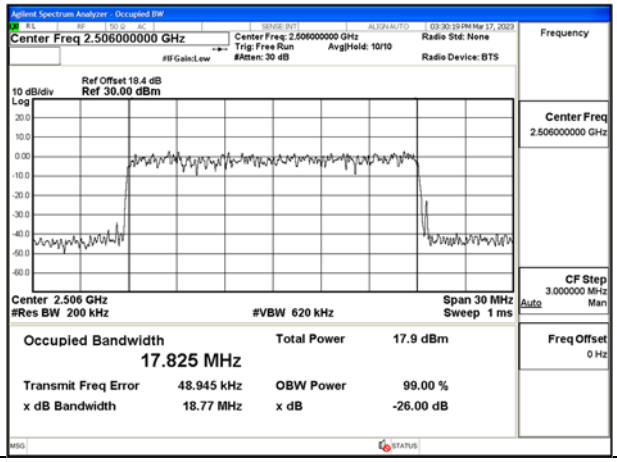

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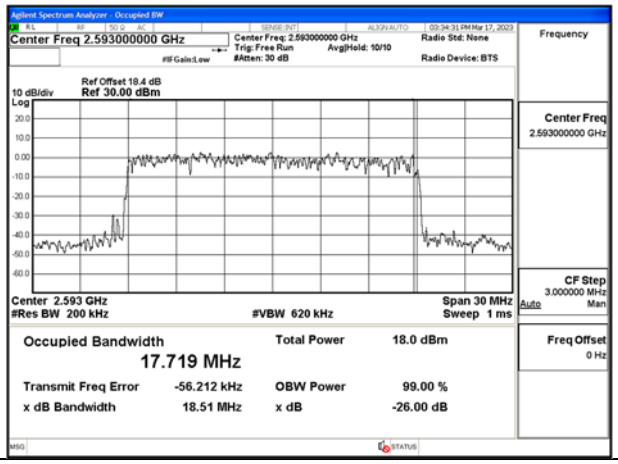

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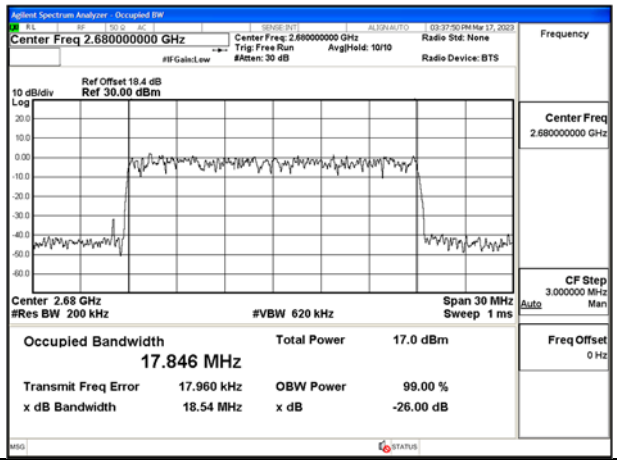


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
41	2498.5	39675	5	1	24	Fig.1	Fig.2	Fig.3
41	2498.5	39675	5	25	0	Fig.4	Fig.5	Fig.6
41	2593	40620	5	1	24	Fig.7	Fig.8	Fig.9
41	2593	40620	5	25	0	Fig.10	Fig.11	Fig.12
41	2687.5	41565	5	1	24	Fig.13	Fig.14	Fig.15
41	2687.5	41565	5	25	0	Fig.16	Fig.17	Fig.18
41	2501	39700	10	1	49	Fig.19	Fig.20	Fig.21
41	2501	39700	10	50	0	Fig.22	Fig.23	Fig.24
41	2593	40620	10	1	49	Fig.25	Fig.26	Fig.27
41	2593	40620	10	50	0	Fig.28	Fig.29	Fig.30
41	2685	41540	10	1	49	Fig.31	Fig.32	Fig.33
41	2685	41540	10	50	0	Fig.34	Fig.35	Fig.36
41	2503.5	39725	15	1	74	Fig.37	Fig.38	Fig.39
41	2503.5	39725	15	75	0	Fig.40	Fig.41	Fig.42
41	2593	40620	15	1	74	Fig.43	Fig.44	Fig.45
41	2593	40620	15	75	0	Fig.46	Fig.47	Fig.48
41	2682.5	41515	15	1	74	Fig.49	Fig.50	Fig.51
41	2682.5	41515	15	75	0	Fig.52	Fig.53	Fig.54
41	2506	39750	20	1	99	Fig.55	Fig.56	Fig.57
41	2506	39750	20	100	0	Fig.58	Fig.59	Fig.60
41	2593	40620	20	1	99	Fig.61	Fig.62	Fig.63
41	2593	40620	20	100	0	Fig.64	Fig.65	Fig.66
41	2680	41490	20	1	99	Fig.67	Fig.68	Fig.69
41	2680	41490	20	100	0	Fig.70	Fig.71	Fig.72

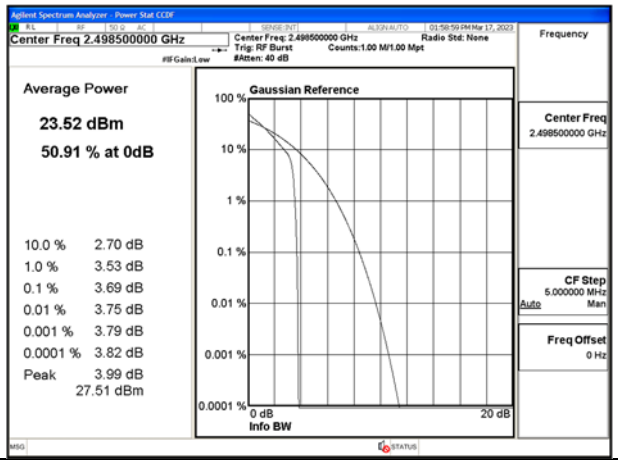
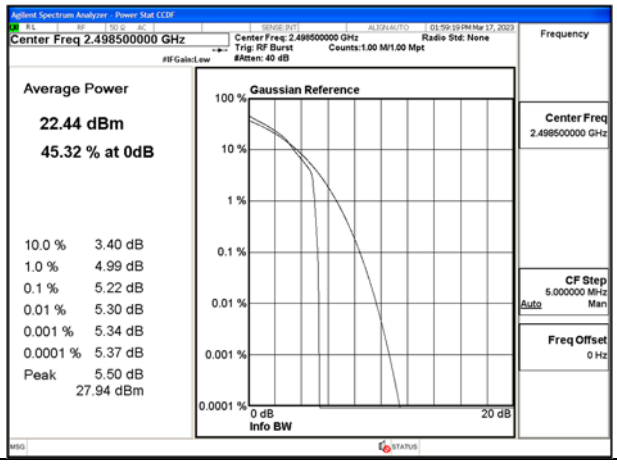


Fig.1



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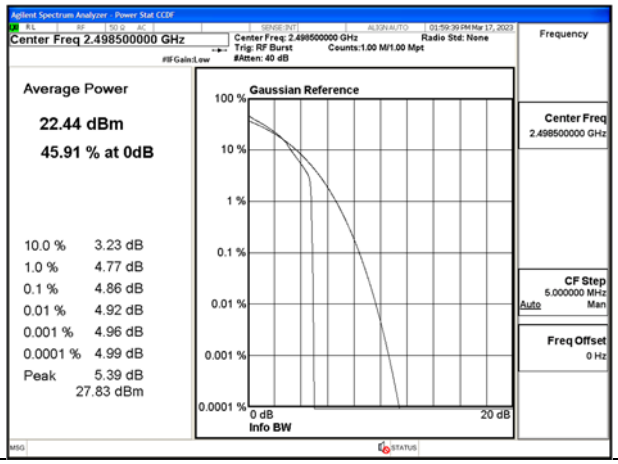

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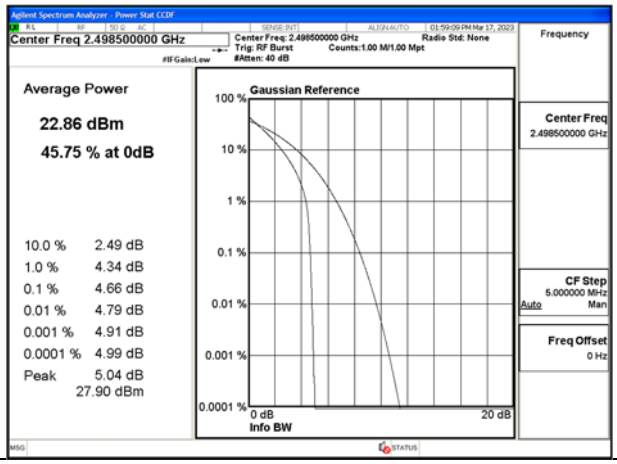

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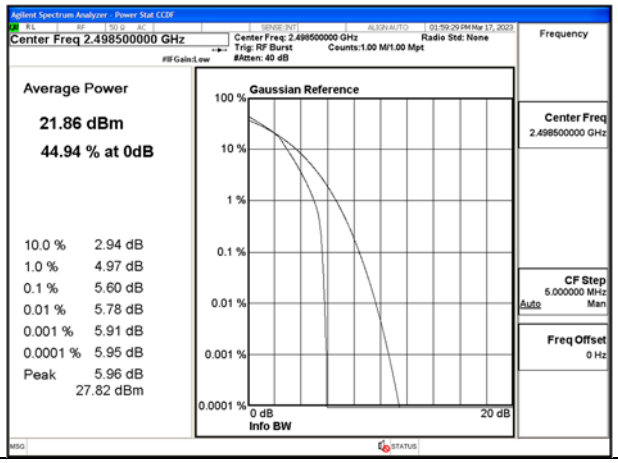

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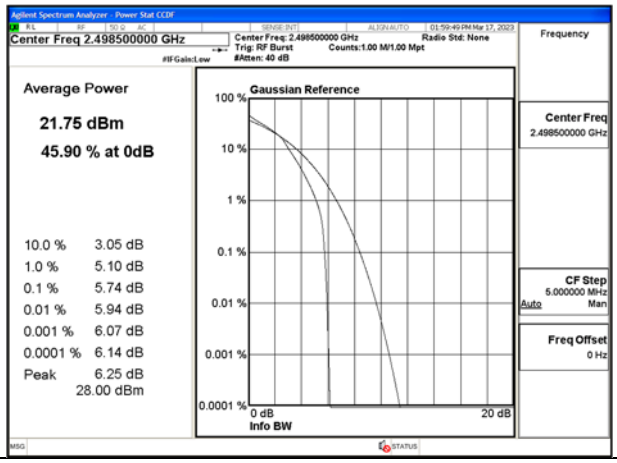

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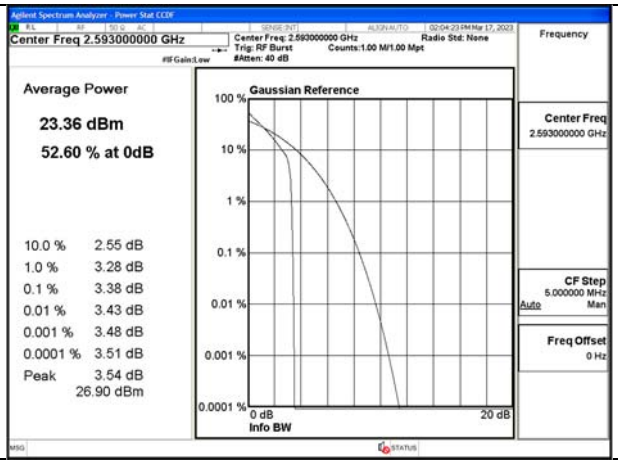

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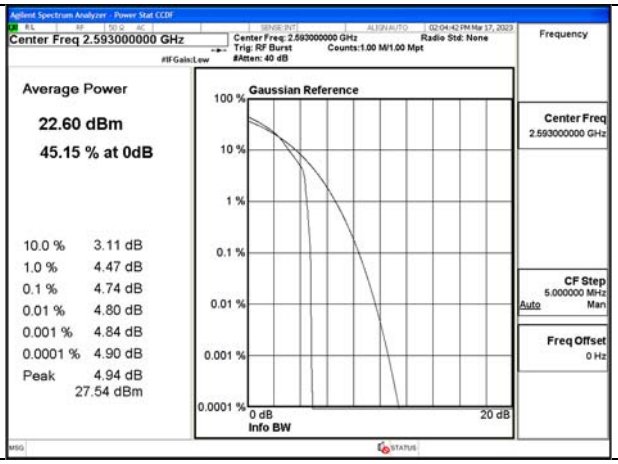

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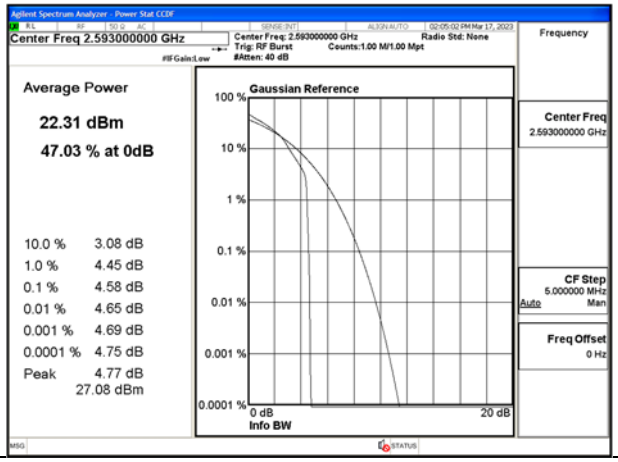

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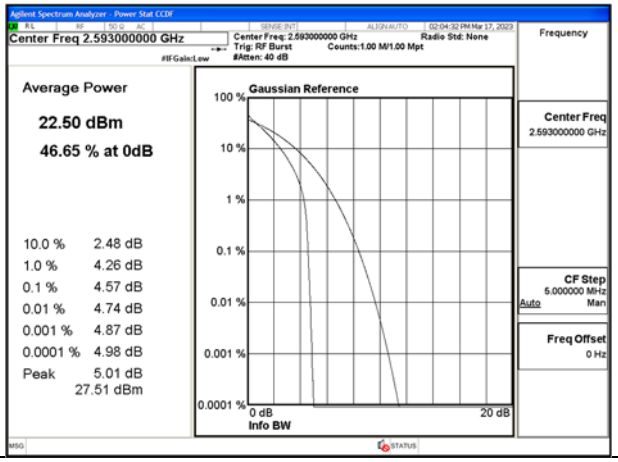
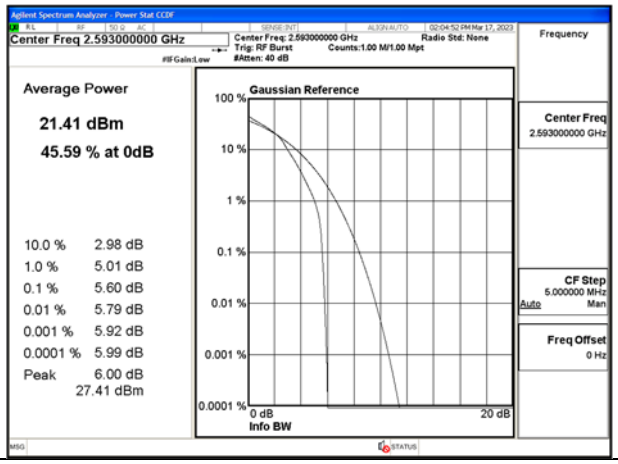


Fig.10



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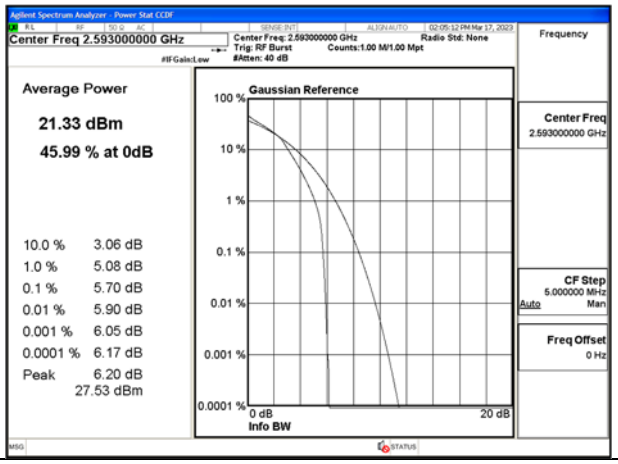

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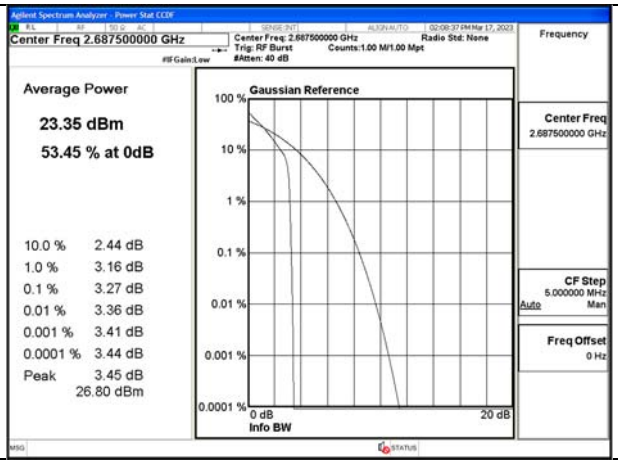

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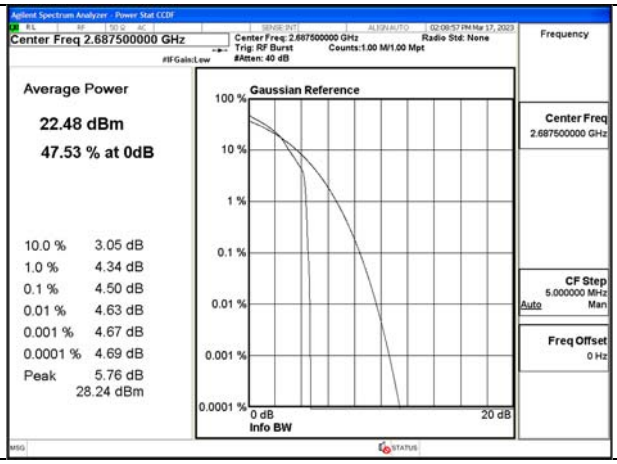

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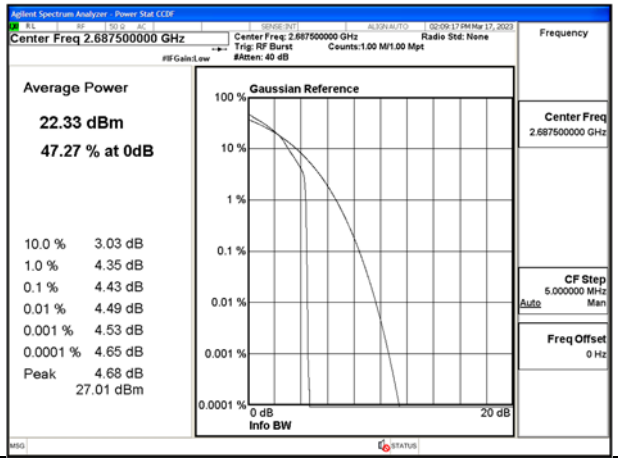

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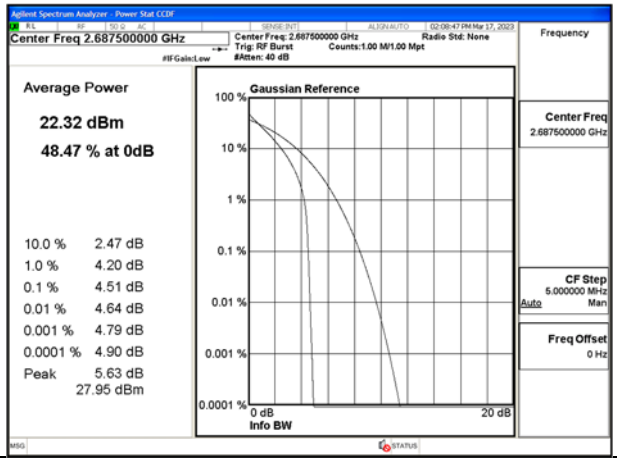

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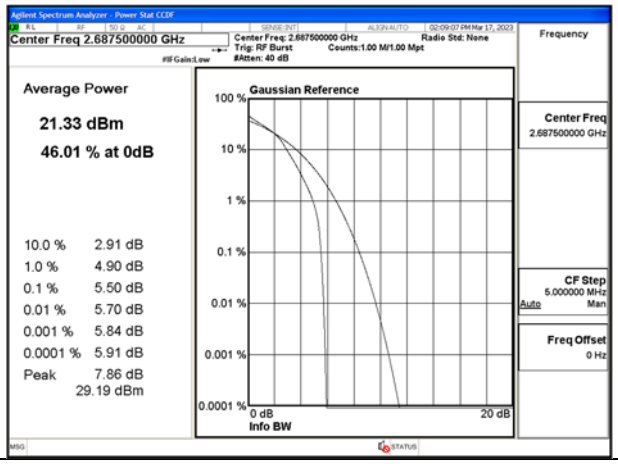

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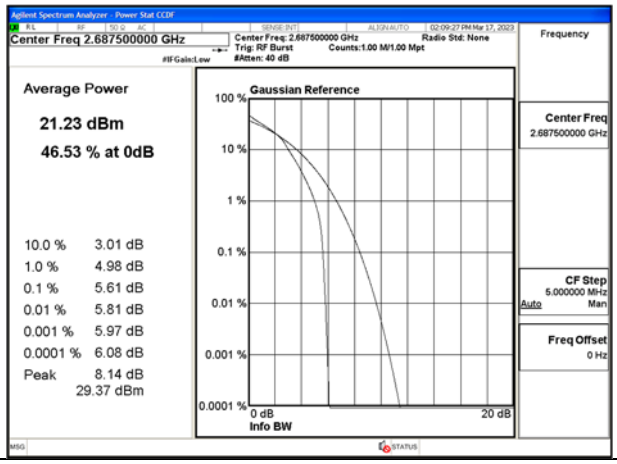

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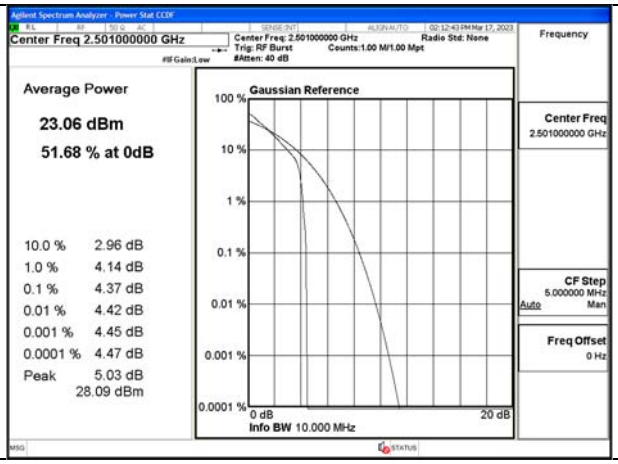

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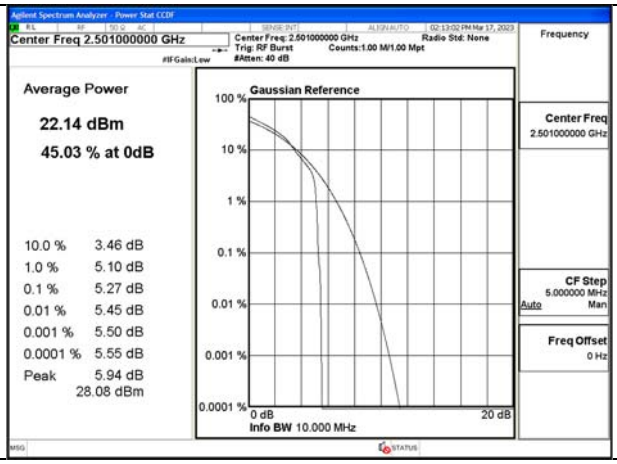

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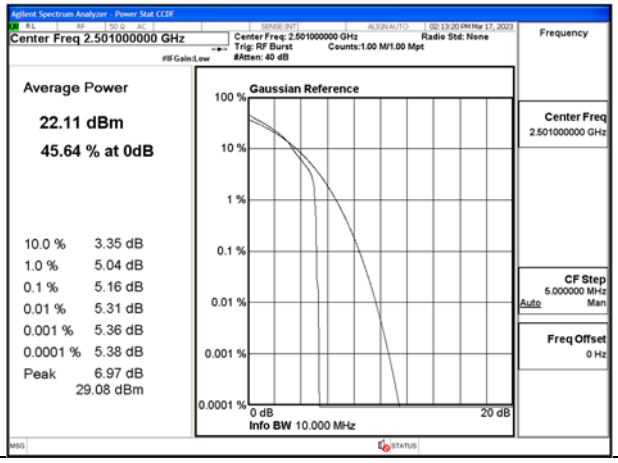

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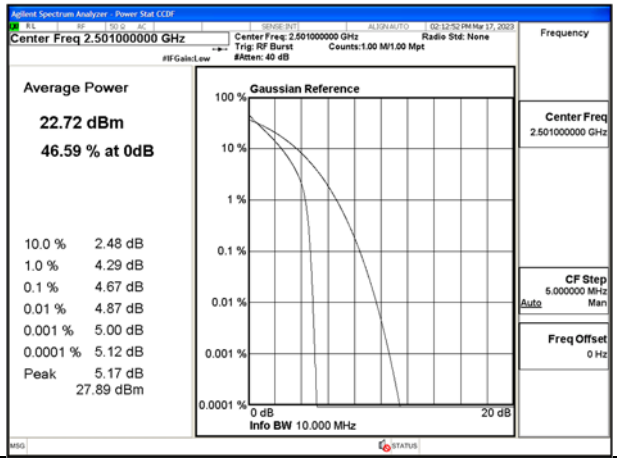

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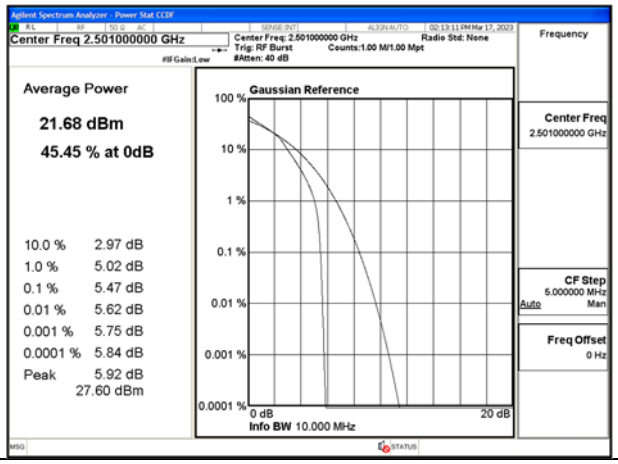

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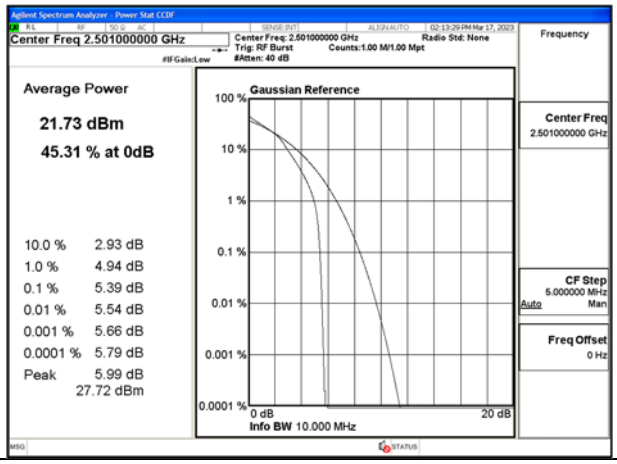

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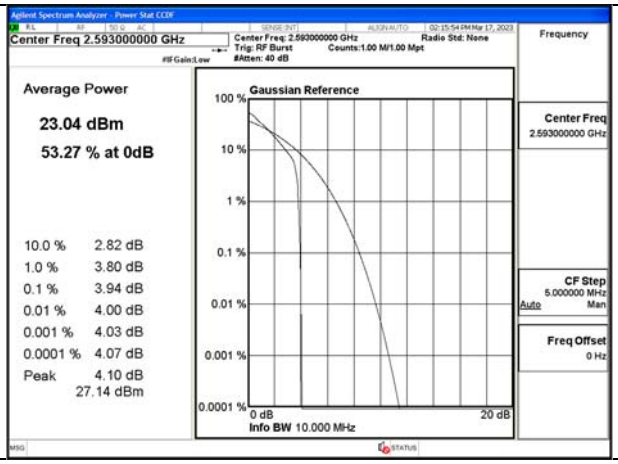

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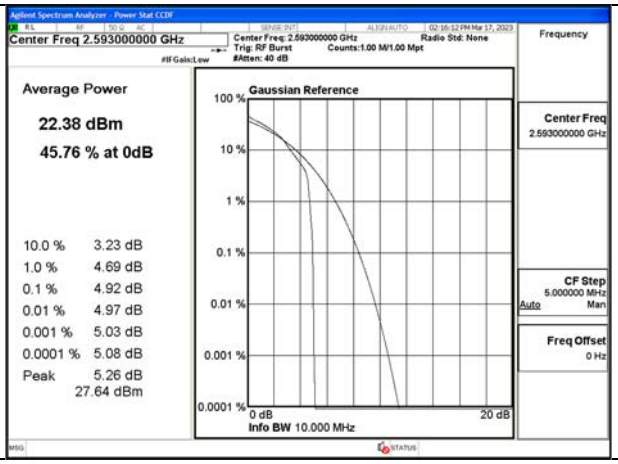
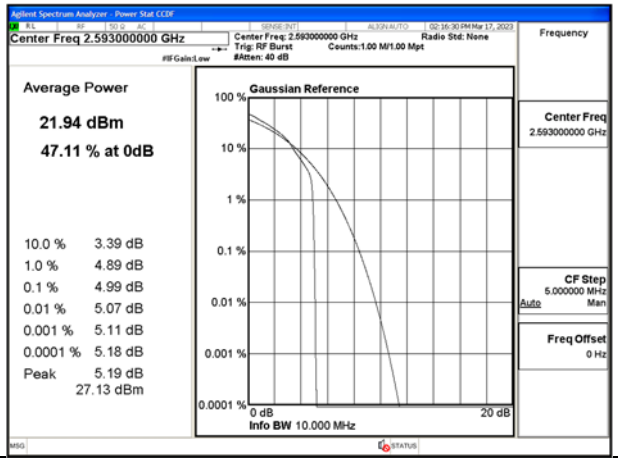


Fig.26



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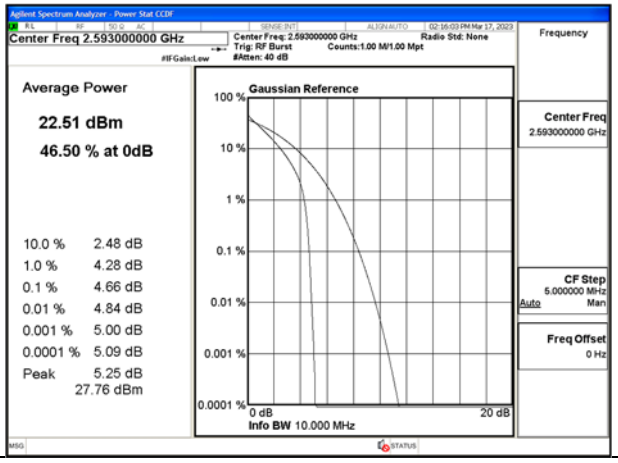

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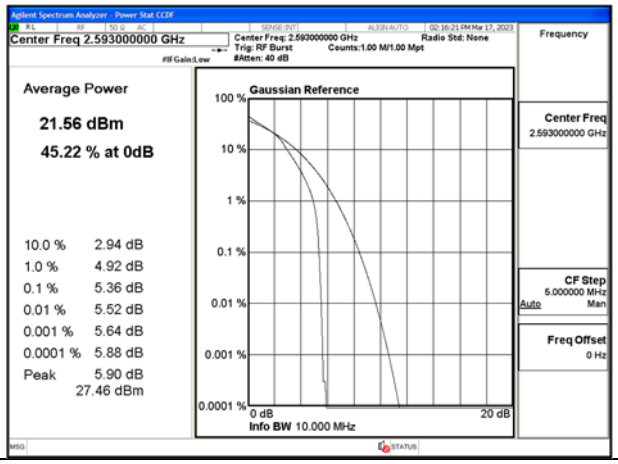

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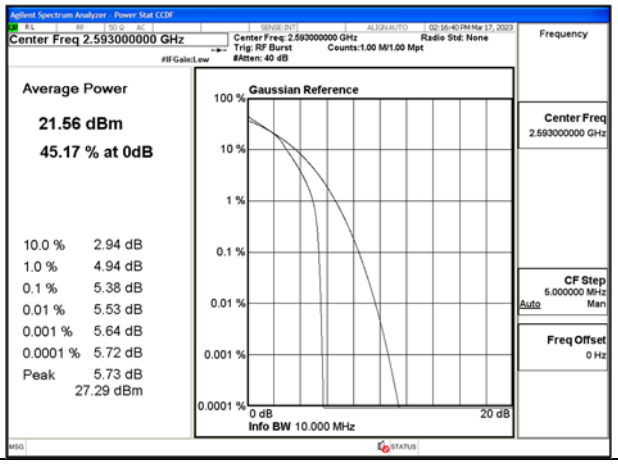

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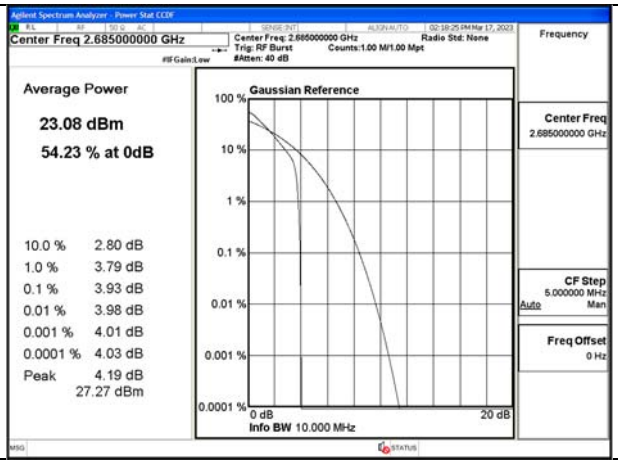

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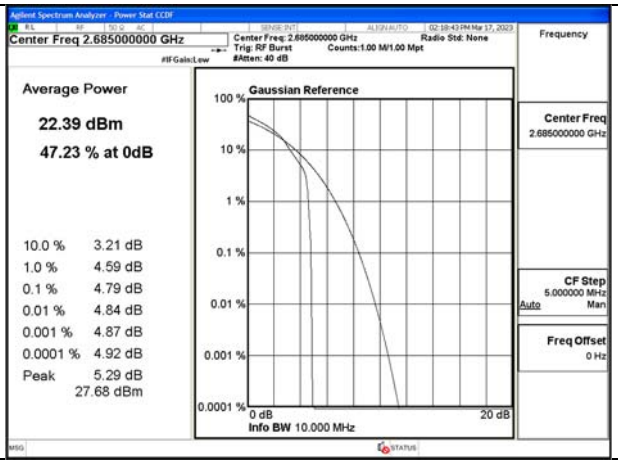

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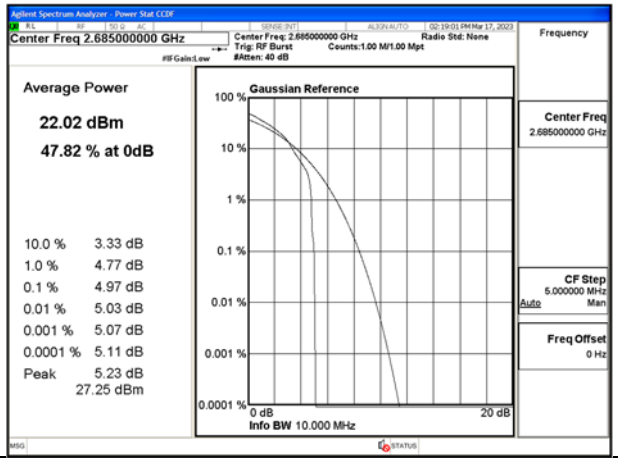

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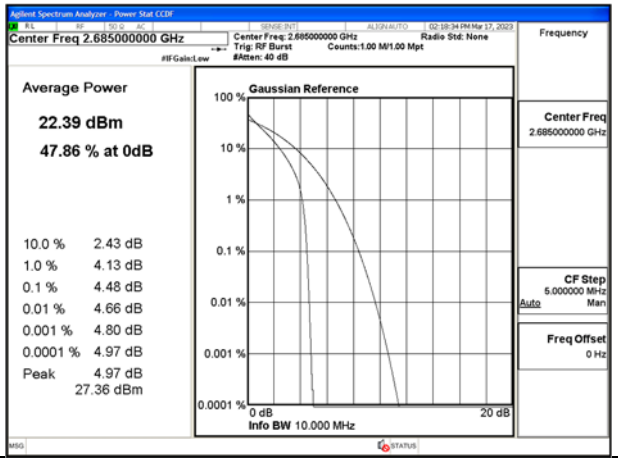

Fig.34

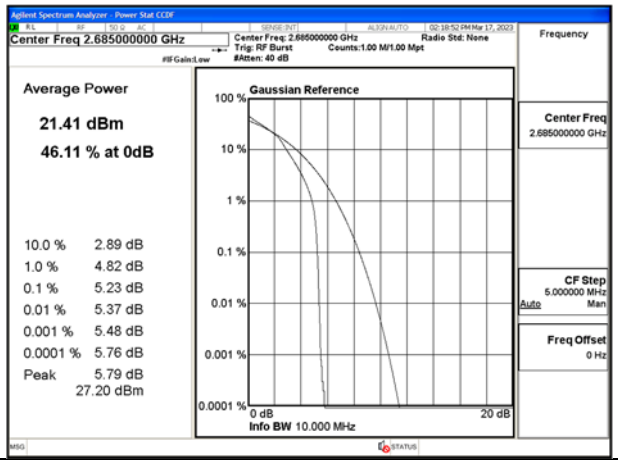

Fig.35

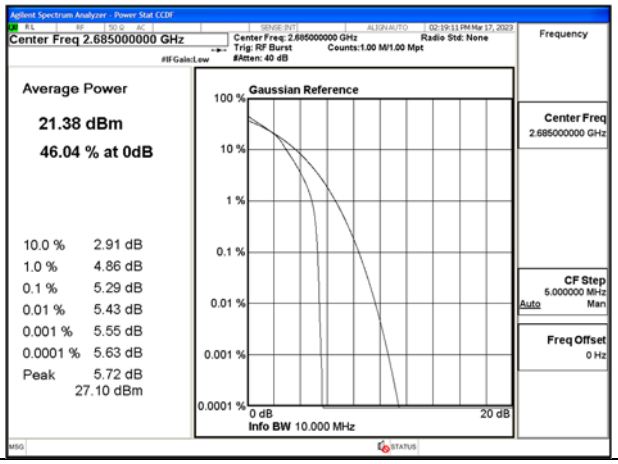

Fig.36