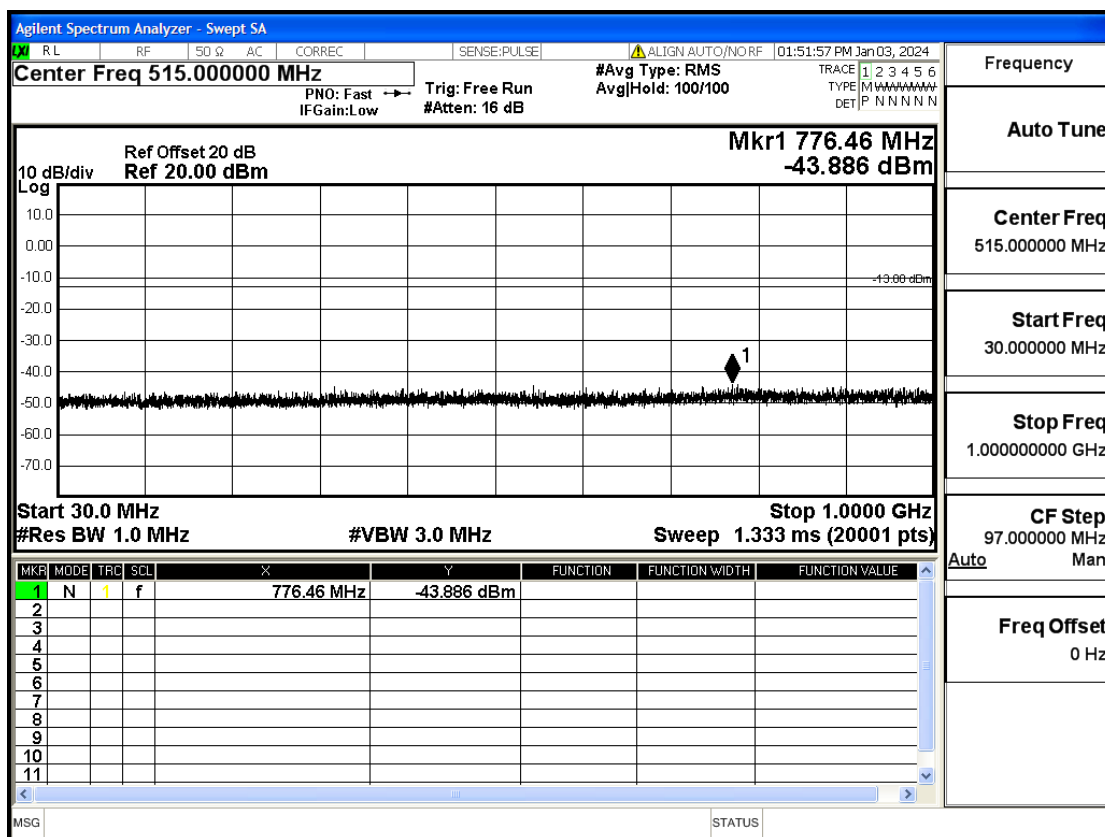
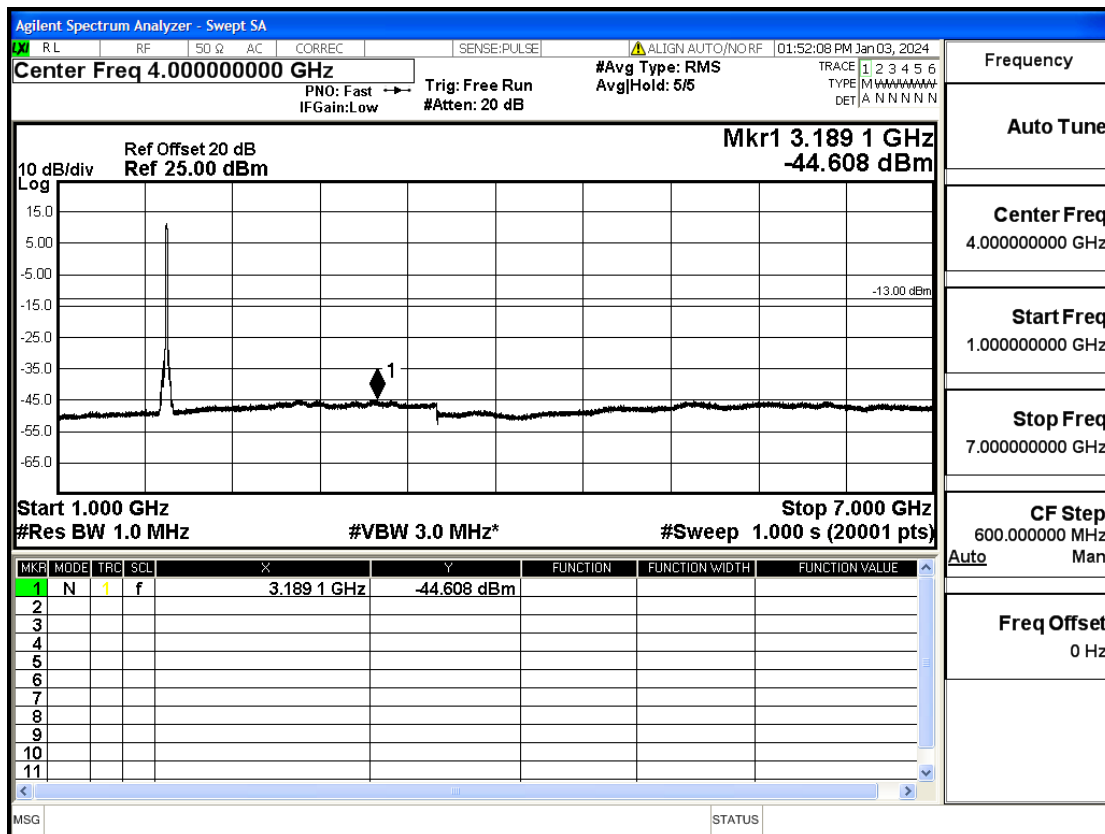


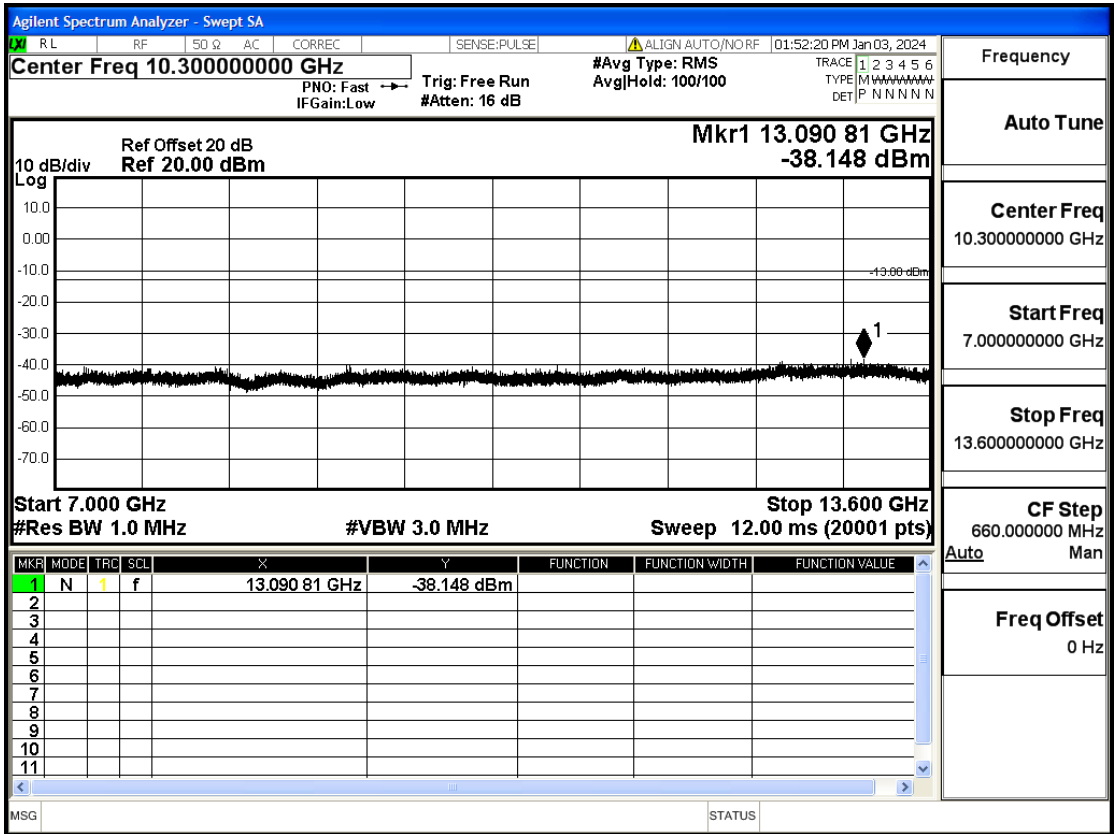
OB4-15-1747.5-QPSK-75#LOW@30mHz-1GHz@Pass



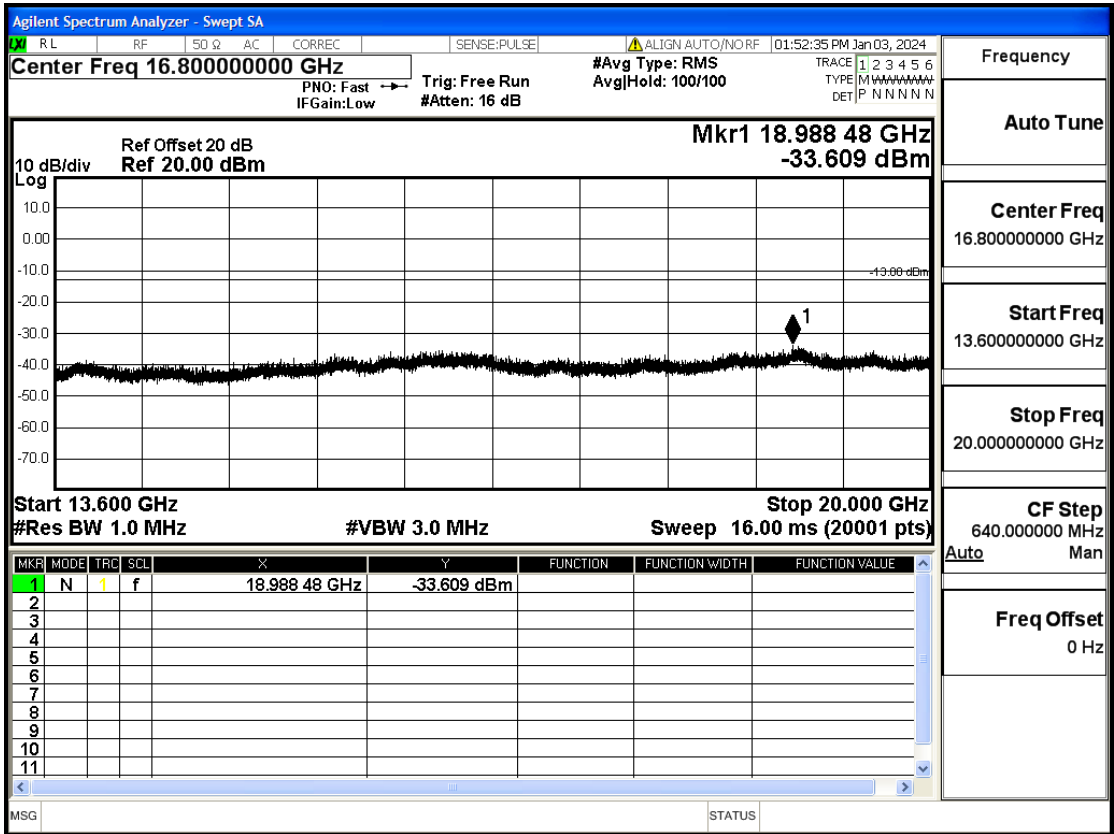
OB4-15-1747.5-QPSK-75#LOW@1GHz-7GHz@Pass



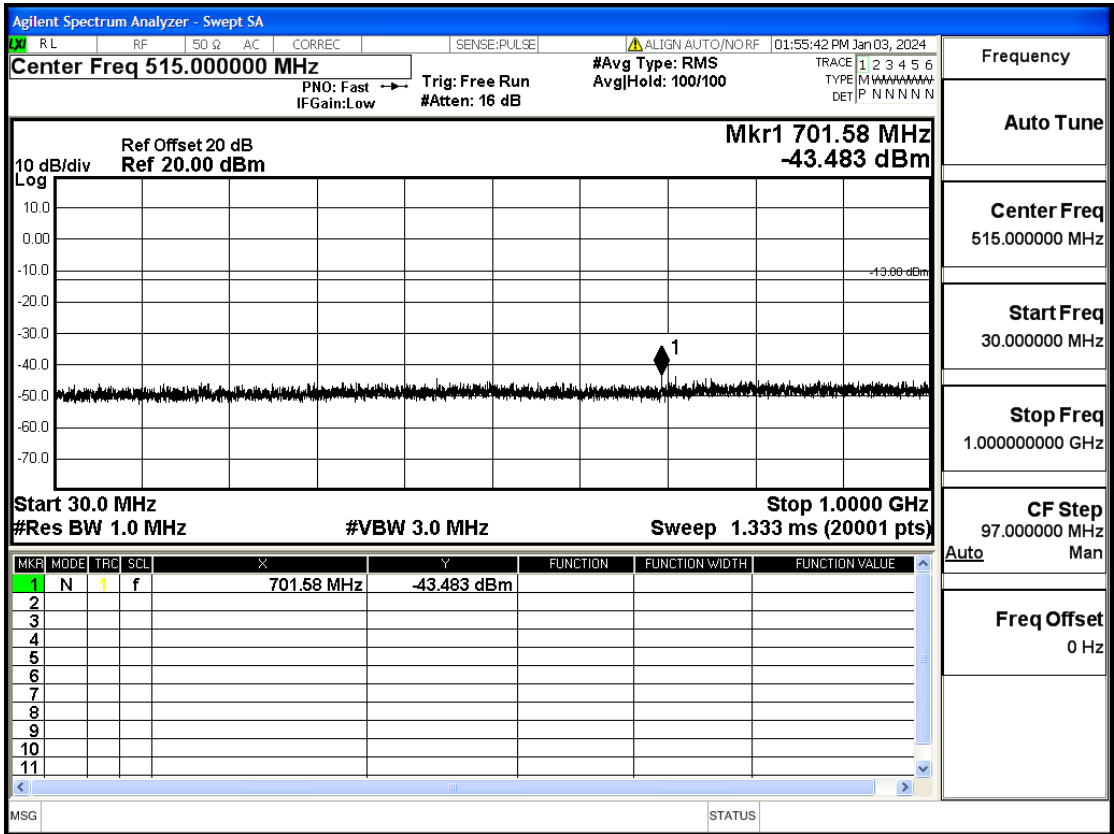
OB4-15-1747.5-QPSK-75#LOW@7GHz-13.6GHz@Pass



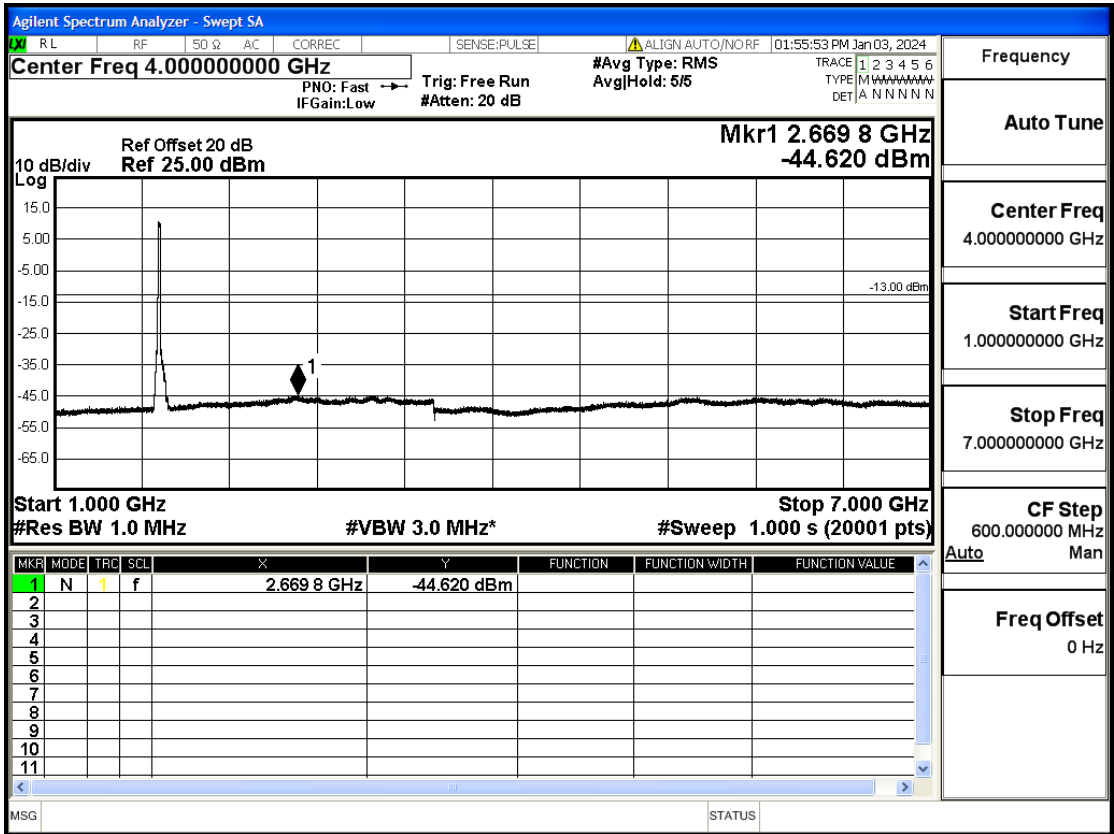
OB4-15-1747.5-QPSK-75#LOW@13.6GHz-20GHz@Pass



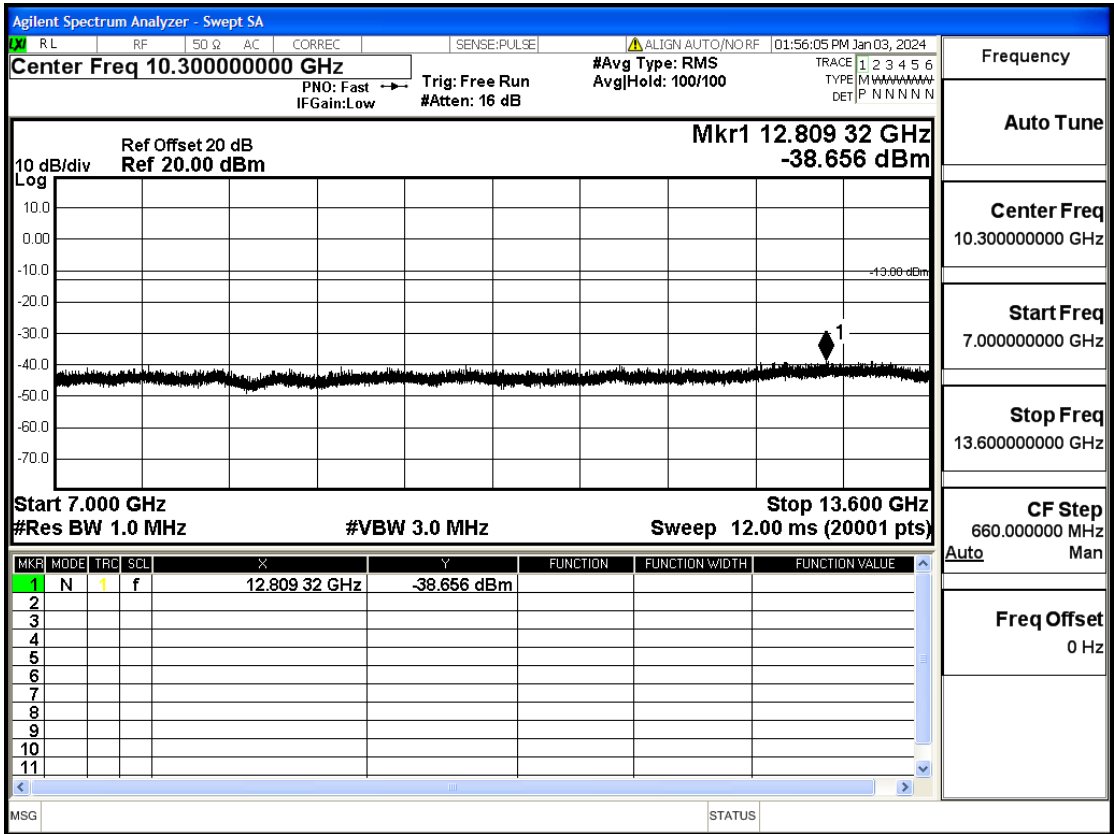
OB4-20-1720-QPSK-100#LOW@30mHz-1GHz@Pass



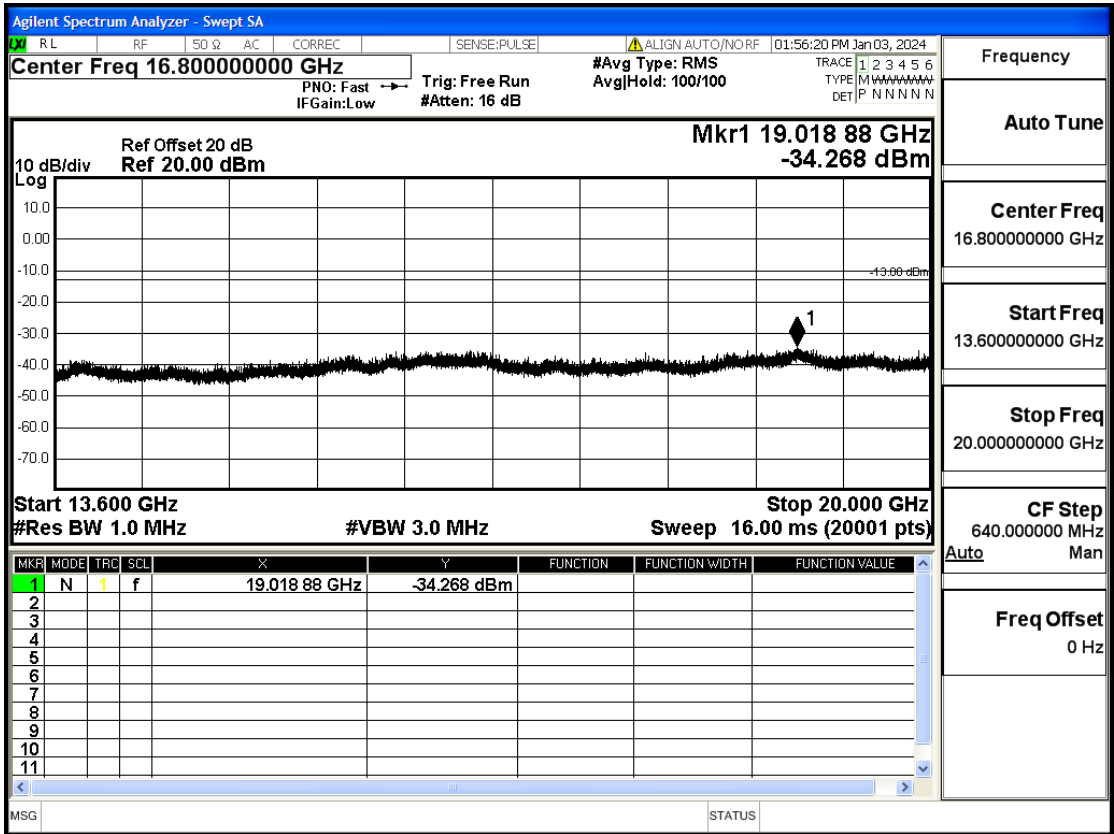
OB4-20-1720-QPSK-100#LOW@1GHz-7GHz@Pass



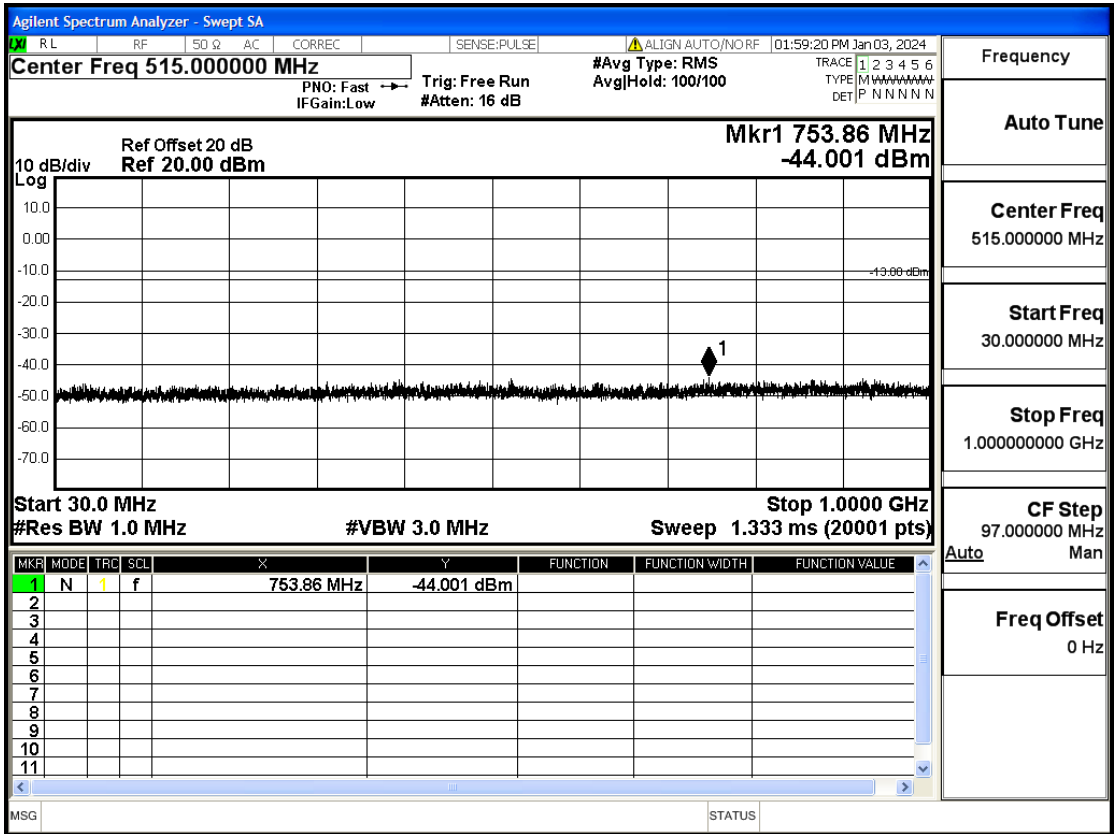
OB4-20-1720-QPSK-100#LOW@7GHz-13.6GHz@Pass



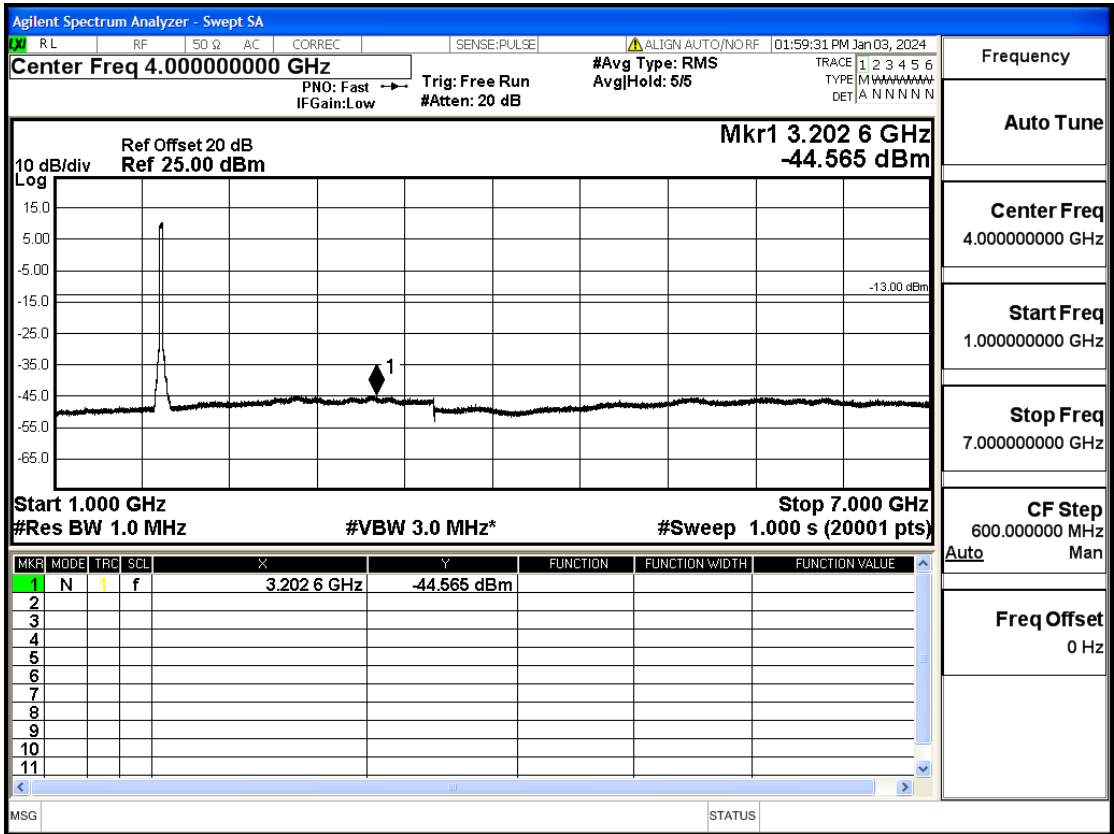
OB4-20-1720-QPSK-100#LOW@13.6GHz-20GHz@Pass



OB4-20-1732.5-QPSK-100#LOW@30mHz-1GHz@Pass



OB4-20-1732.5-QPSK-100#LOW@1GHz-7GHz@Pass



Agilent Spectrum Analyzer - Swept SA

☒ R L RF 50 Ω AC CORREC SENSE:PULSE ALIGN AUTO/NORF 01:59:43 PM Jan 03, 2024

Center Freq 10.30000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atn: 16 dB #Avg Type: RMS Avg/Hold: 100/100 TRACE 1 2 3 4 5 6 TYPE M W W W W W W W DET P N N N N N

Ref Offset 20 dB **Mkr1 12.742 99 GHz**
Ref 20.00 dBm **-38.370 dBm**

10 dB/div Log

Start 7.000 GHz Stop 13.600 GHz
 #Res BW 1.0 MHz #VBW 3.0 MHz Sweep 12.00 ms (20001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	12.742 99 GHz	-38.370 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Frequency
 Auto Tune
 Center Freq 10.30000000 GHz
 Start Freq 7.000000000 GHz
 Stop Freq 13.600000000 GHz
 CF Step 660.000000 MHz
 Auto Man
 Freq Offset 0 Hz

Agilent Spectrum Analyzer - Swept SA

R/L RF 50 Ω AC CORREC SENSE:PULSE ALIGN AUTO/NORF 01:59:58 PM Jan 03, 2024

Center Freq 16.80000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 16 dB #Avg Type: RMS Avg/Hold: 100/100 TRACE 1 2 3 4 5 6 TYPE M N N N N N N DET P N N N N N

**Mkr1 19.000 32 GHz
-33.641 dBm**

Ref Offset 20 dB
Ref 20.00 dBm

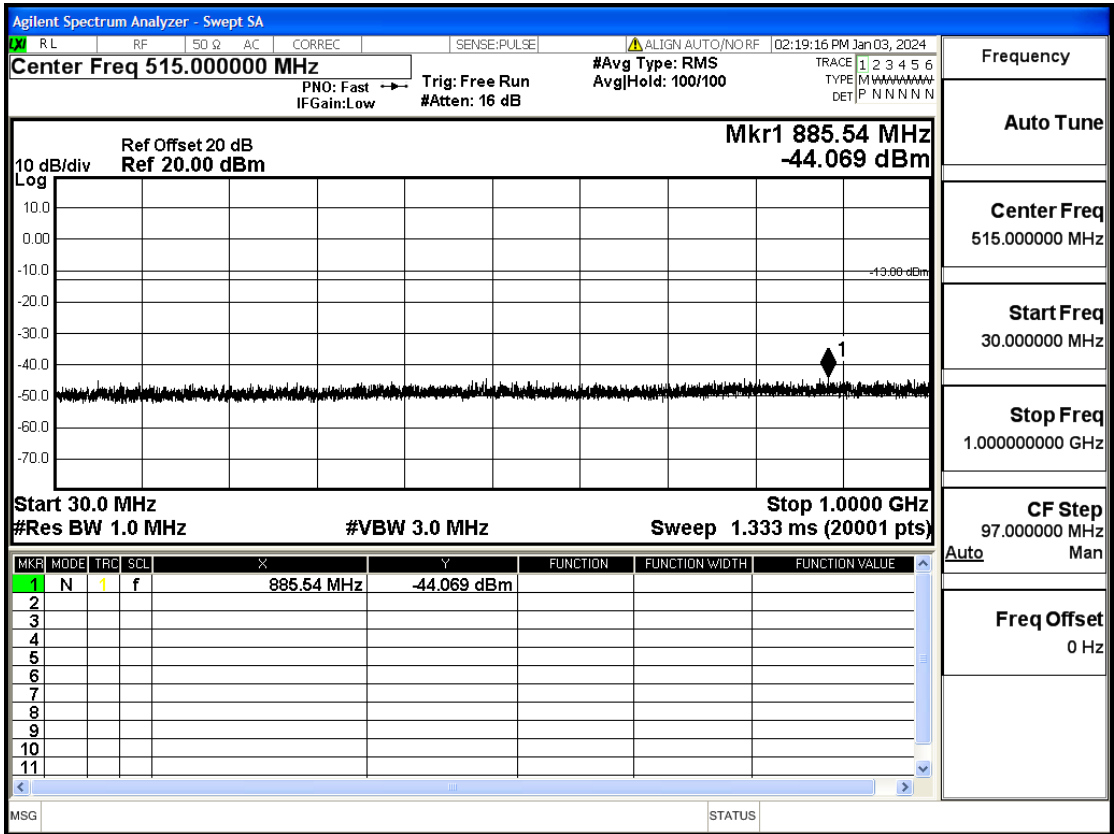
Start 13.600 GHz Stop 20.000 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 16.00 ms (20001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	f	19.000 32 GHz	-33.641 dBm			
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

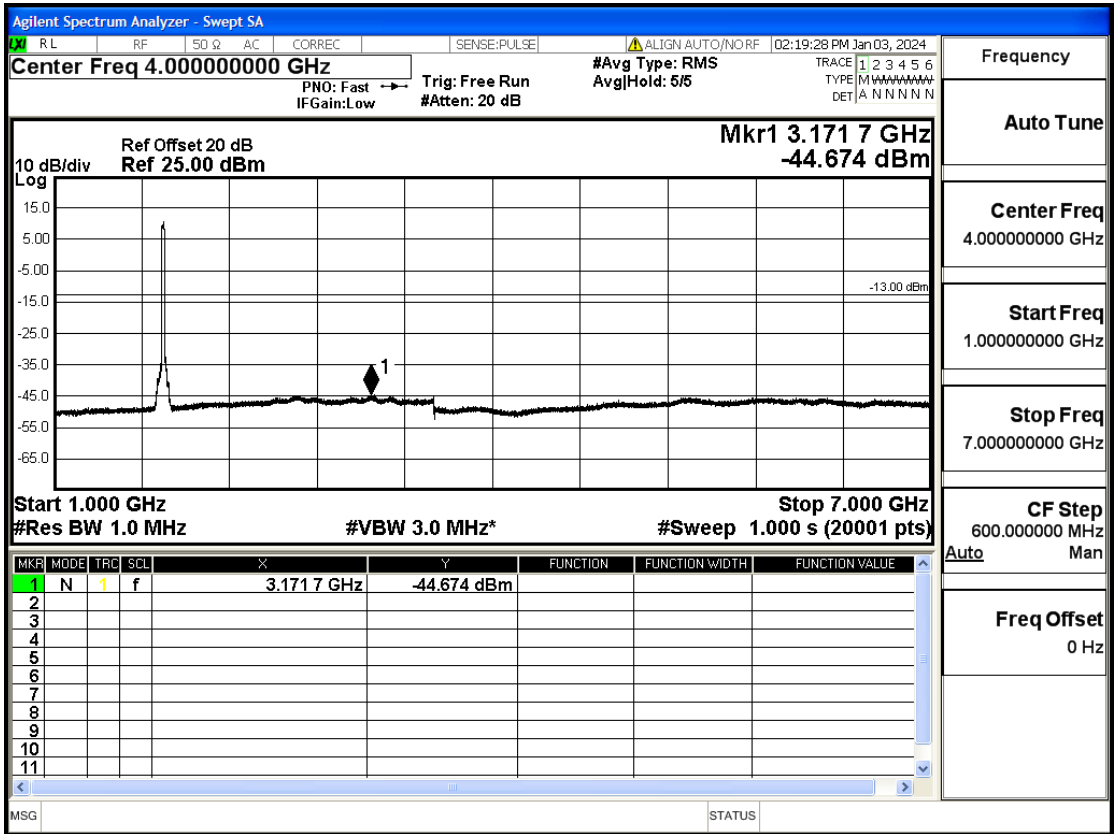
MSG STATUS

Frequency
Auto Tune
Center Freq
16.80000000 GHz
Start Freq
13.60000000 GHz
Stop Freq
20.00000000 GHz
CF Step
640.000000 MHz
Auto Man
Freq Offset
0 Hz

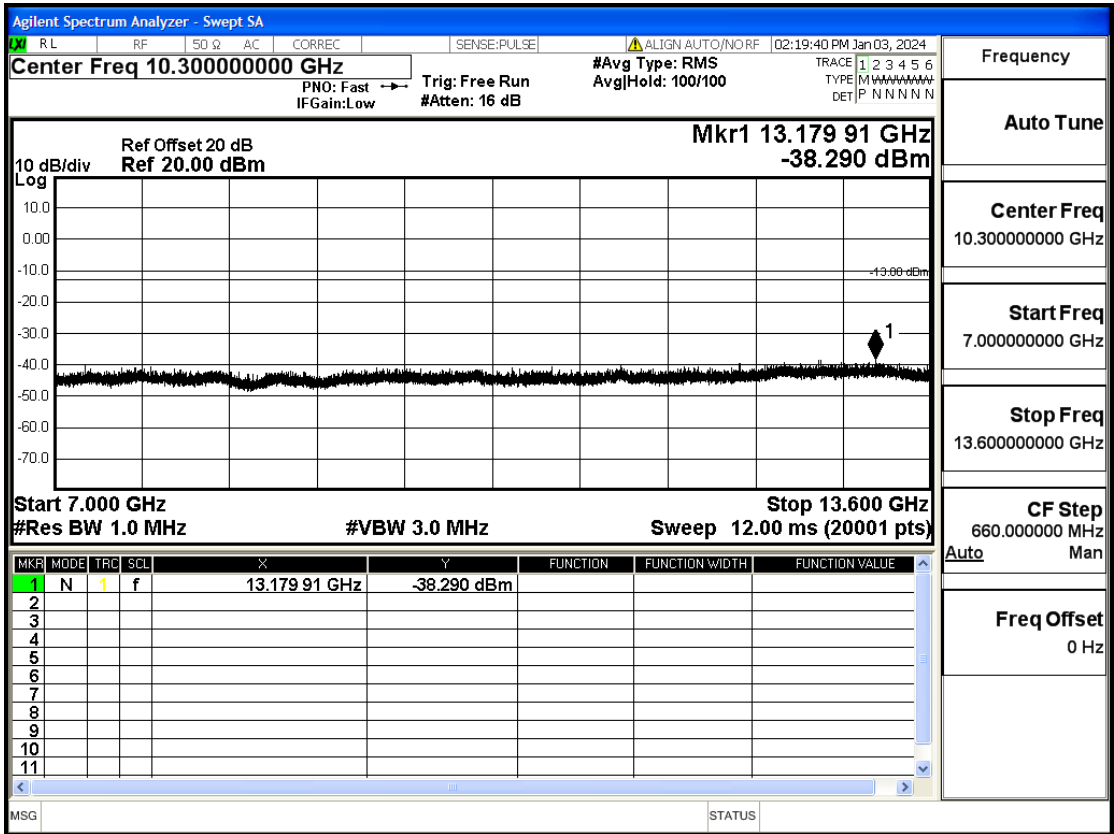
OB4-20-1745-QPSK-100#LOW@30mHz-1GHz@Pass



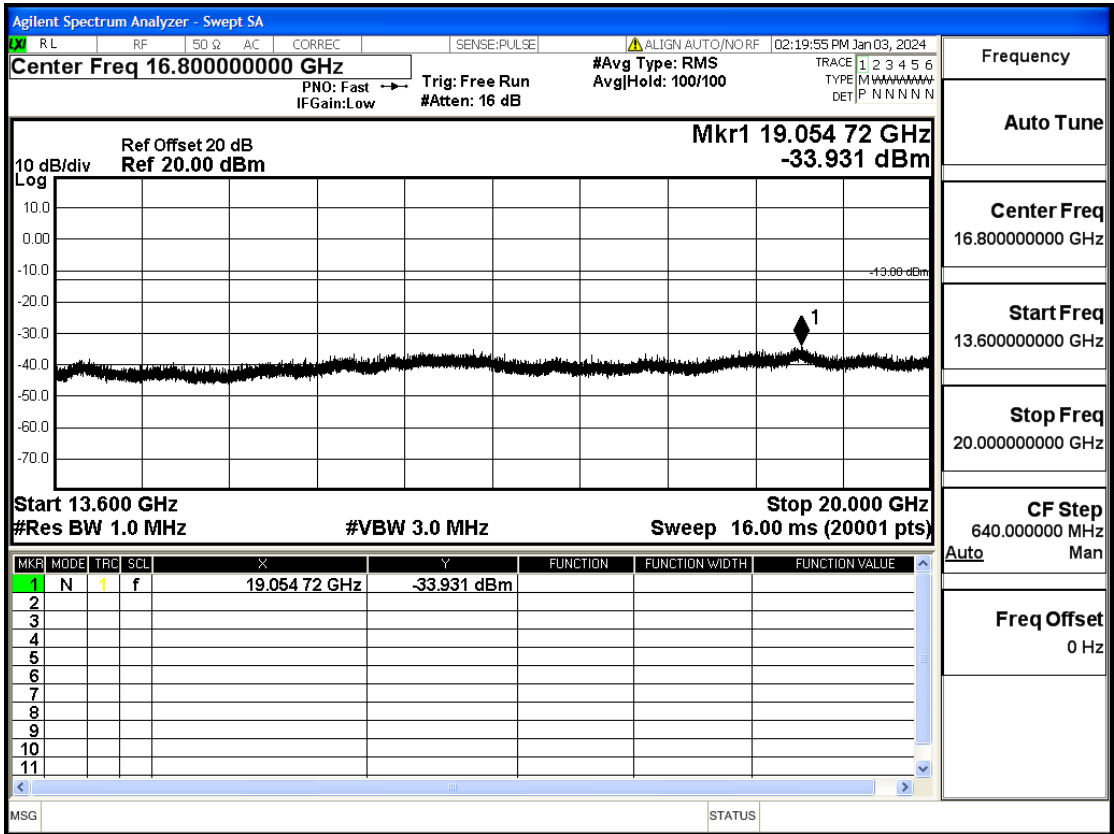
OB4-20-1745-QPSK-100#LOW@1GHz-7GHz@Pass



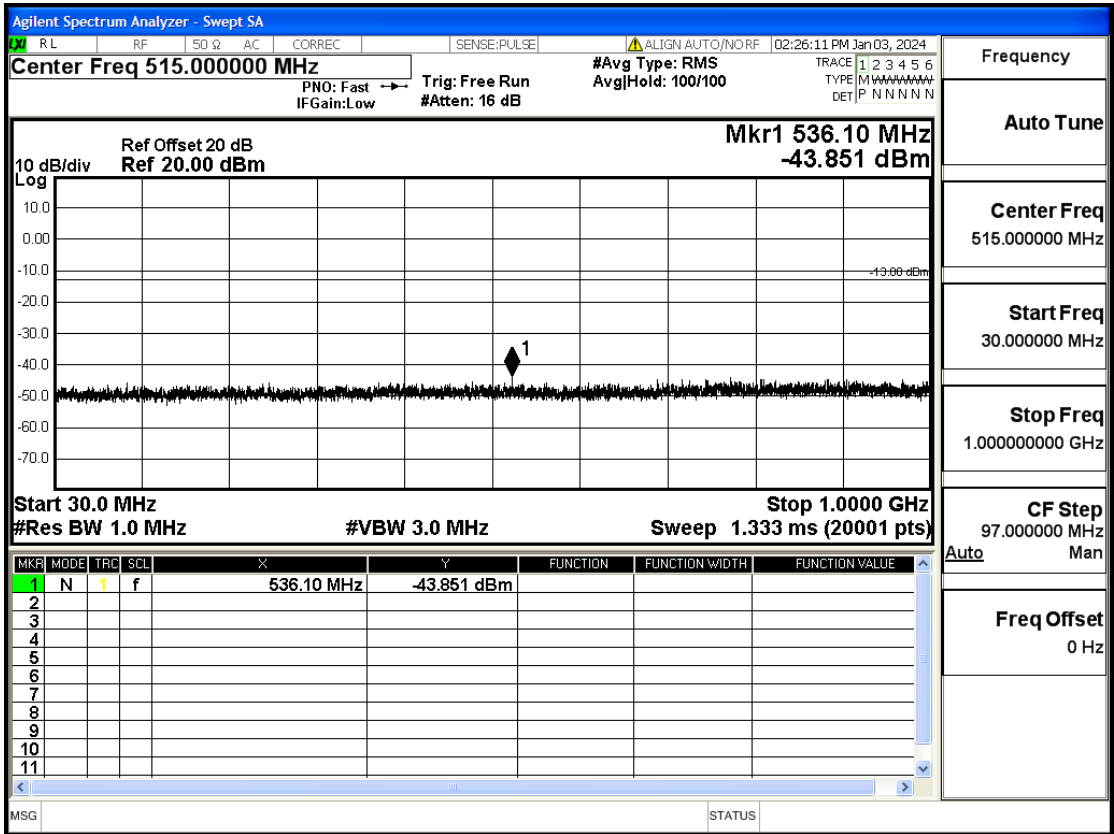
OB4-20-1745-QPSK-100#LOW@7GHz-13.6GHz@Pass



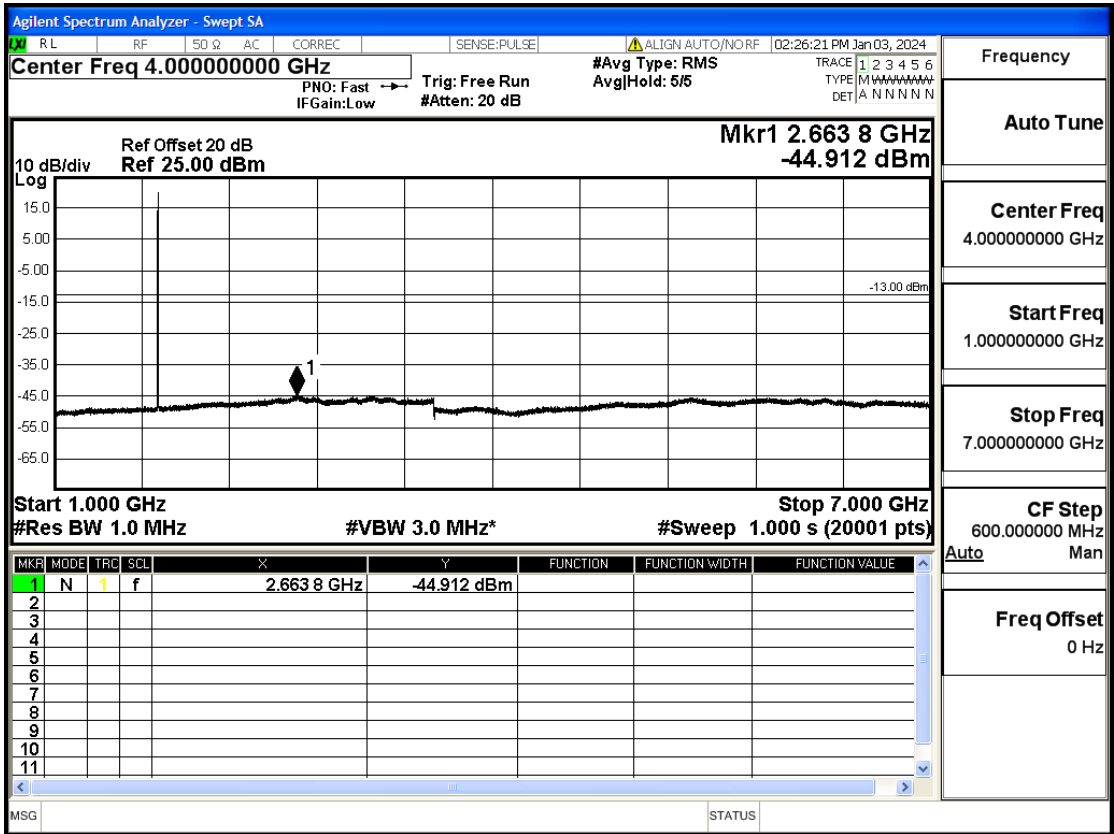
OB4-20-1745-QPSK-100#LOW@13.6GHz-20GHz@Pass



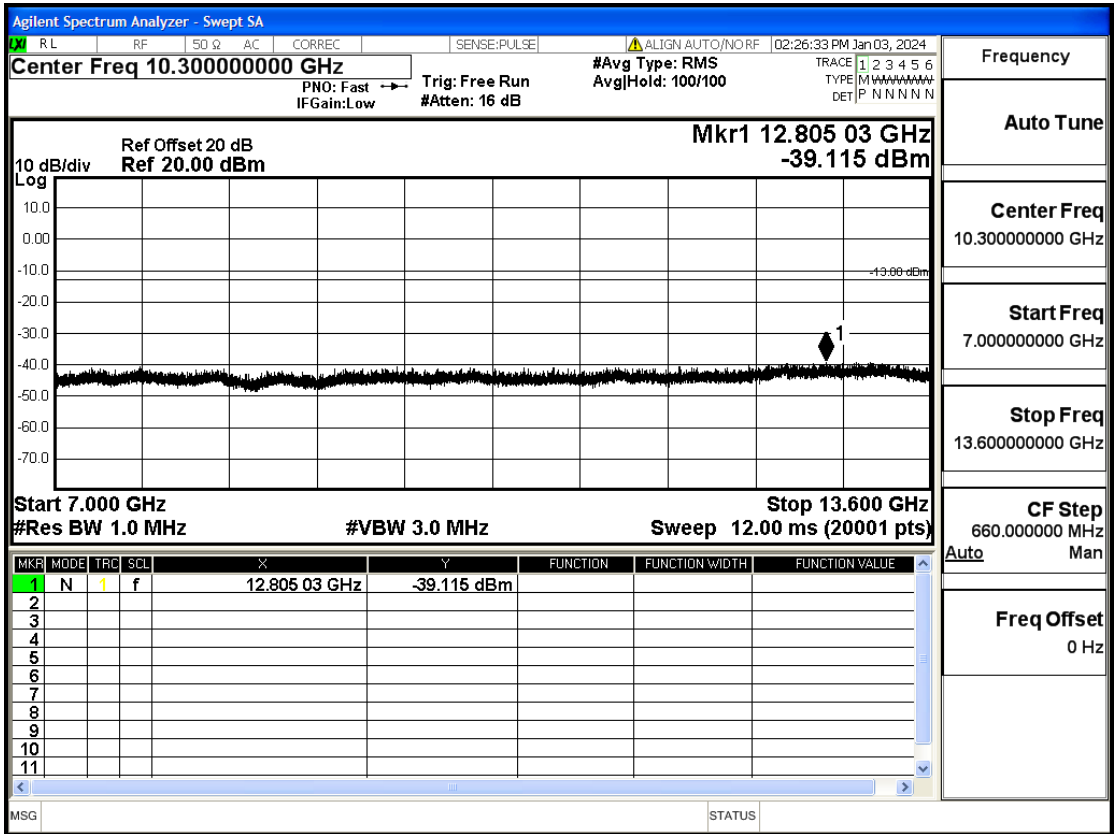
OB4-1.4-1710.7-Q16-6#LOW@30mHz-1GHz@Pass



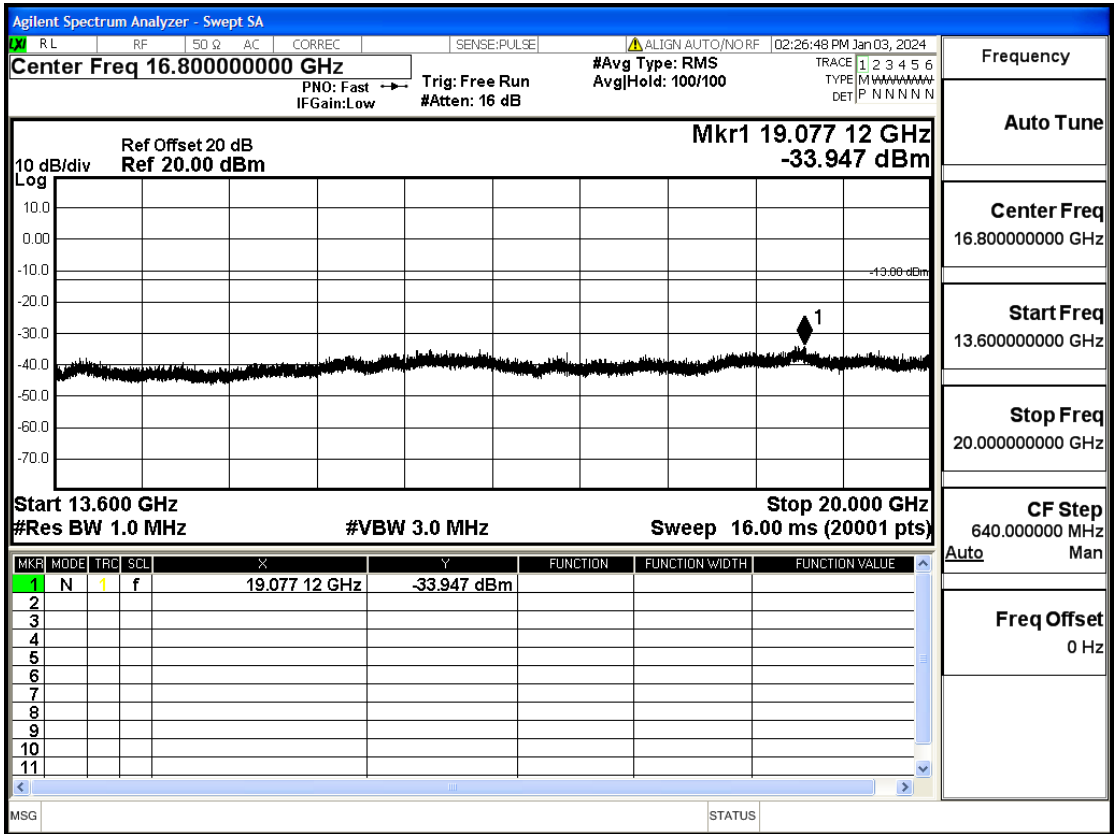
OB4-1.4-1710.7-Q16-6#LOW@1GHz-7GHz@Pass



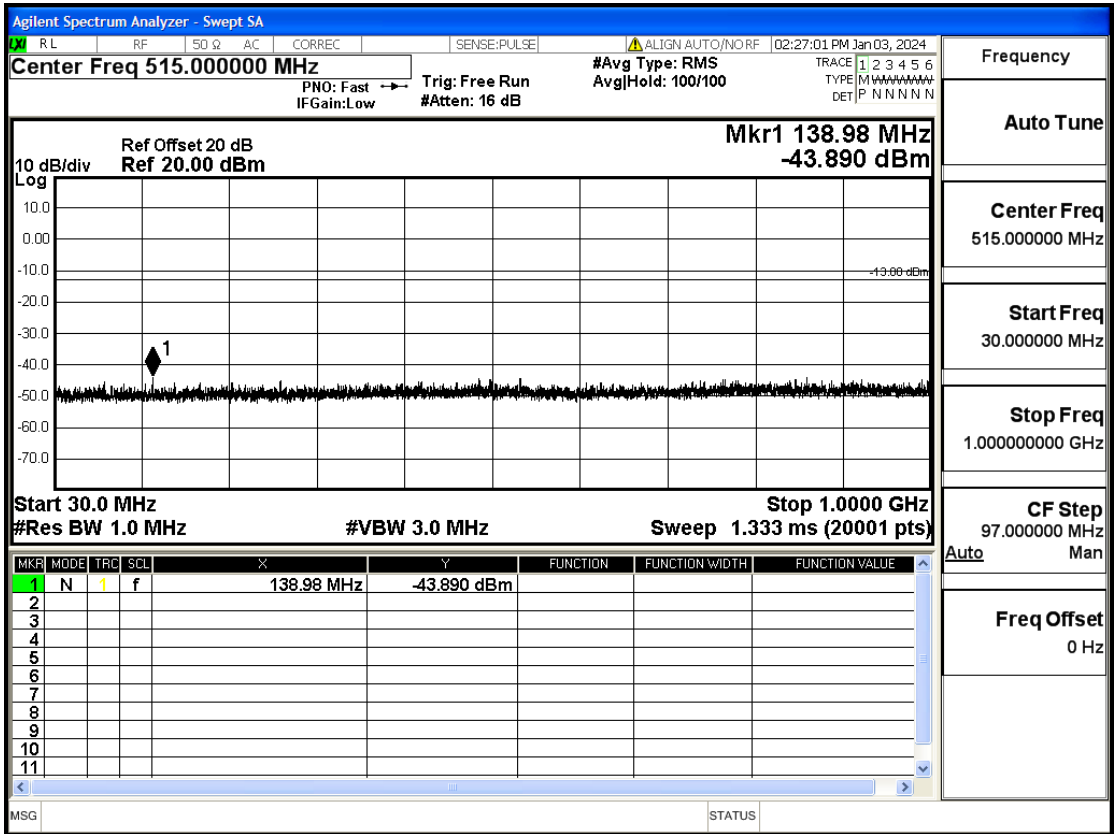
OB4-1.4-1710.7-Q16-6#LOW@7GHz-13.6GHz@Pass



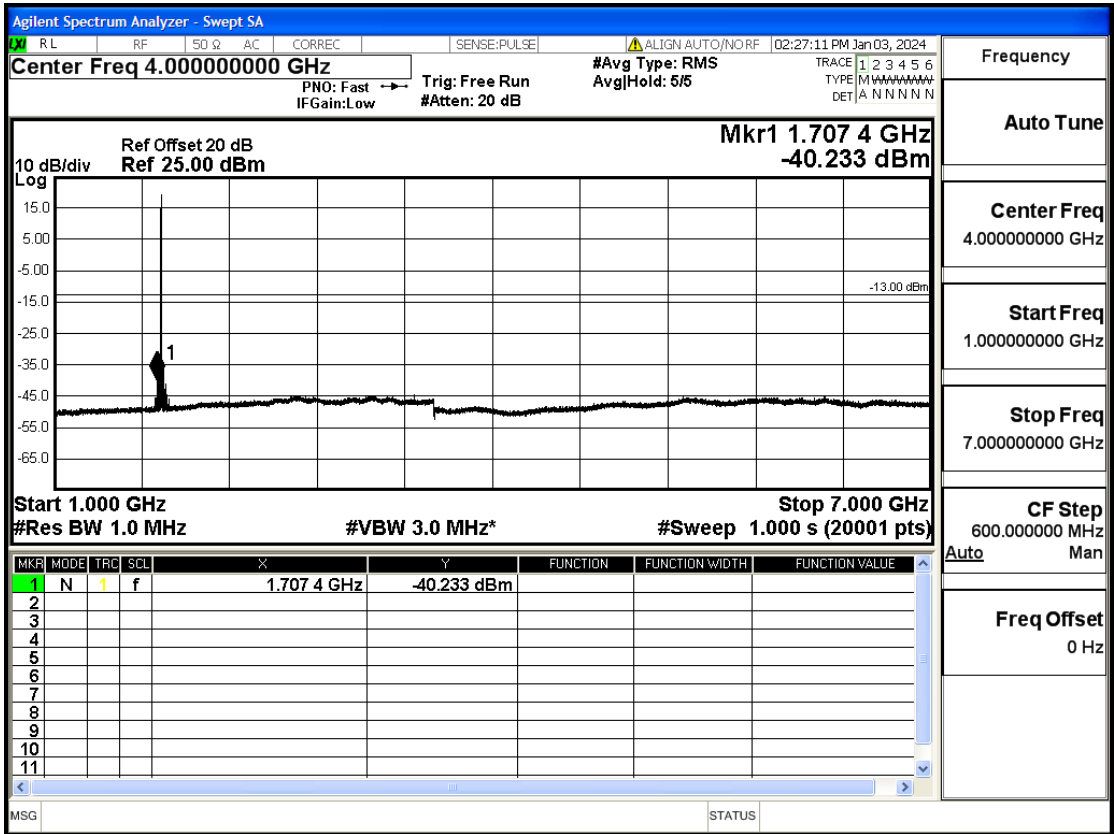
OB4-1.4-1710.7-Q16-6#LOW@13.6GHz-20GHz@Pass



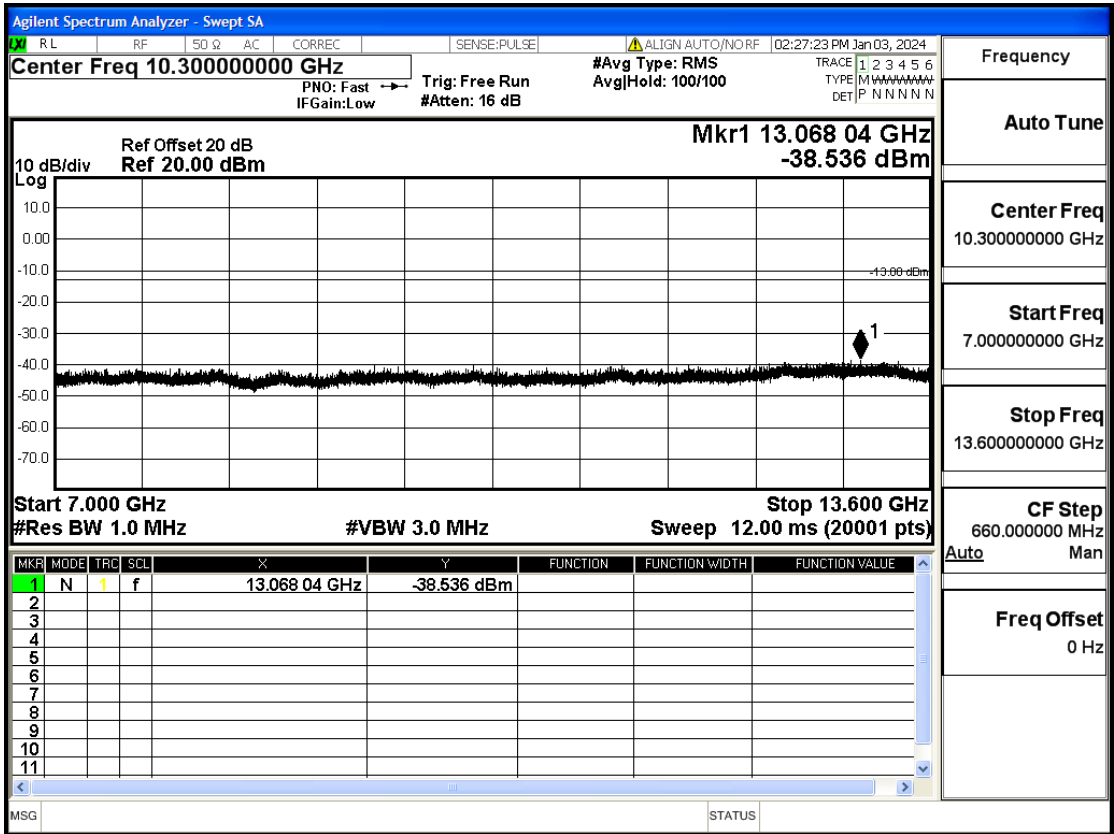
OB4-1.4-1732.5-Q16-6#LOW@30mHz-1GHz@Pass



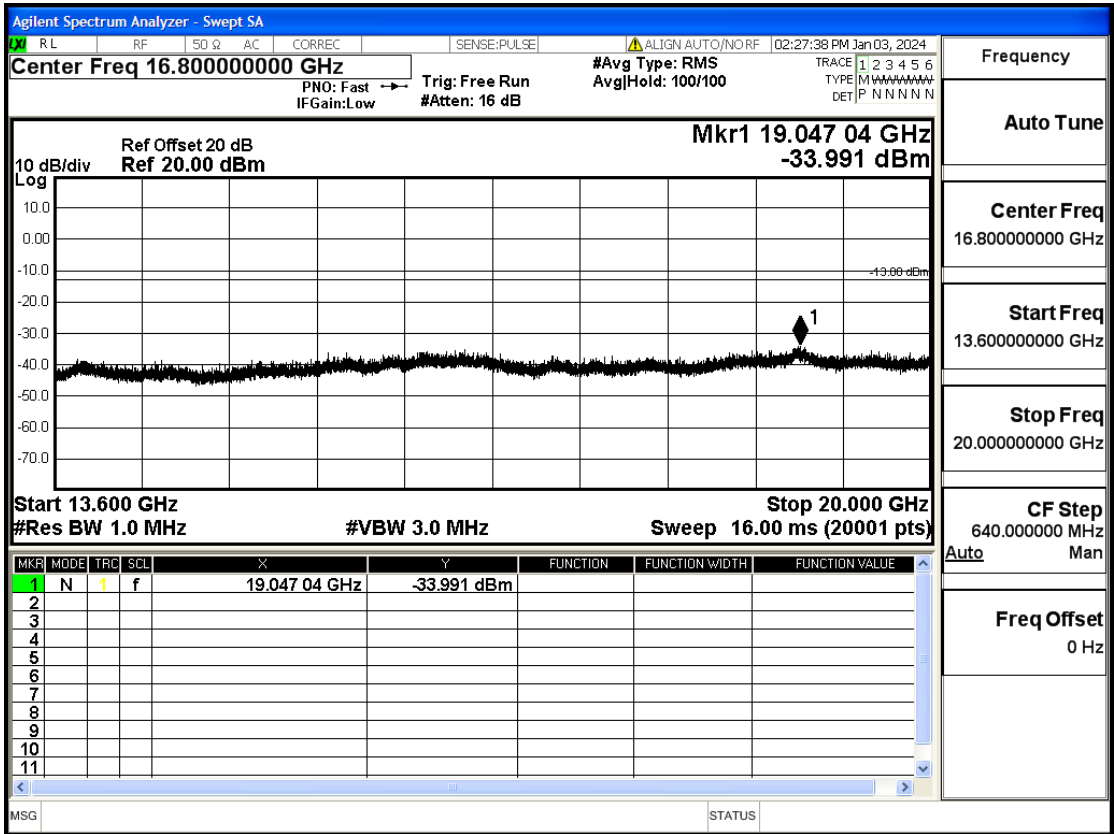
OB4-1.4-1732.5-Q16-6#LOW@1GHz-7GHz@Pass



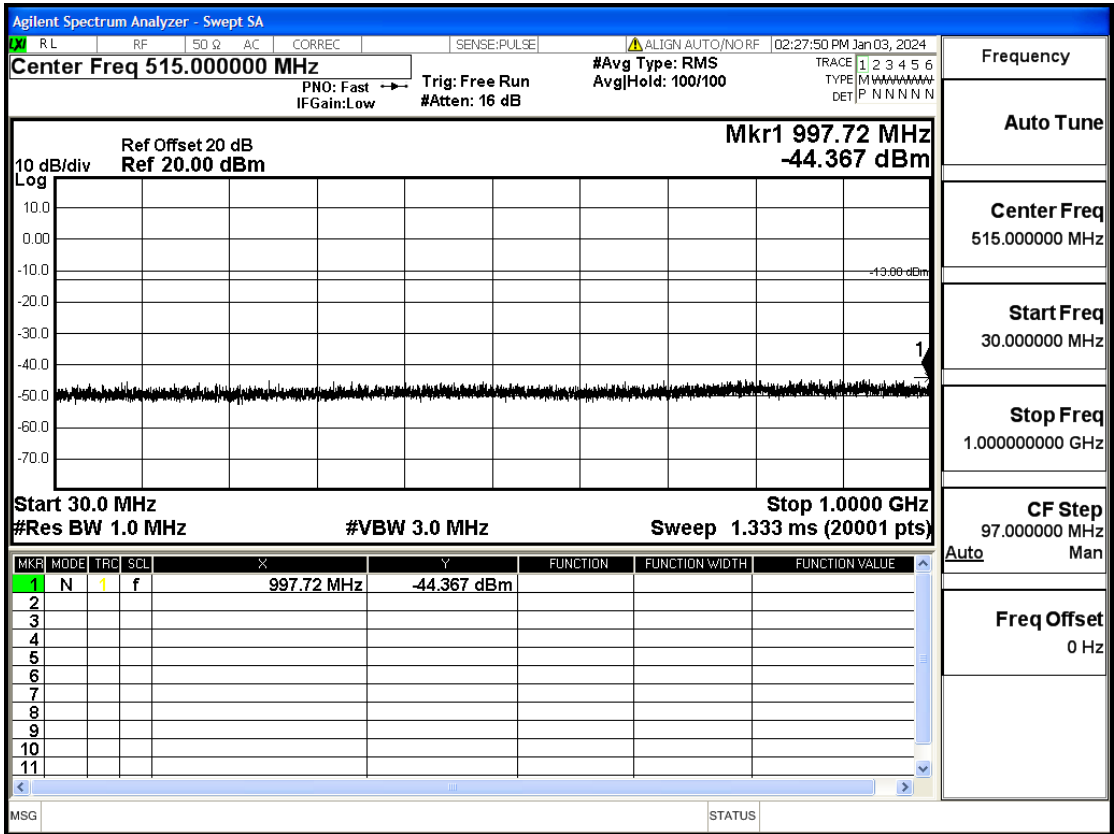
OB4-1.4-1732.5-Q16-6#LOW@7GHz-13.6GHz@Pass



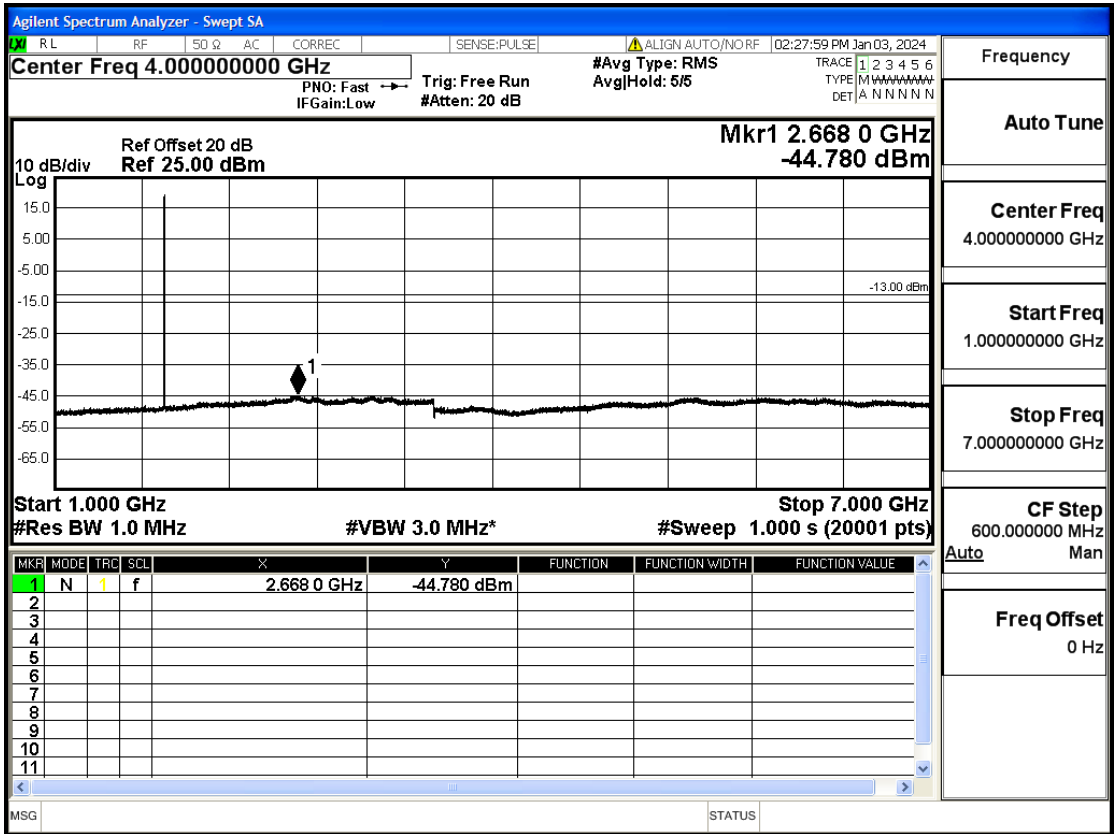
OB4-1.4-1732.5-Q16-6#LOW@13.6GHz-20GHz@Pass



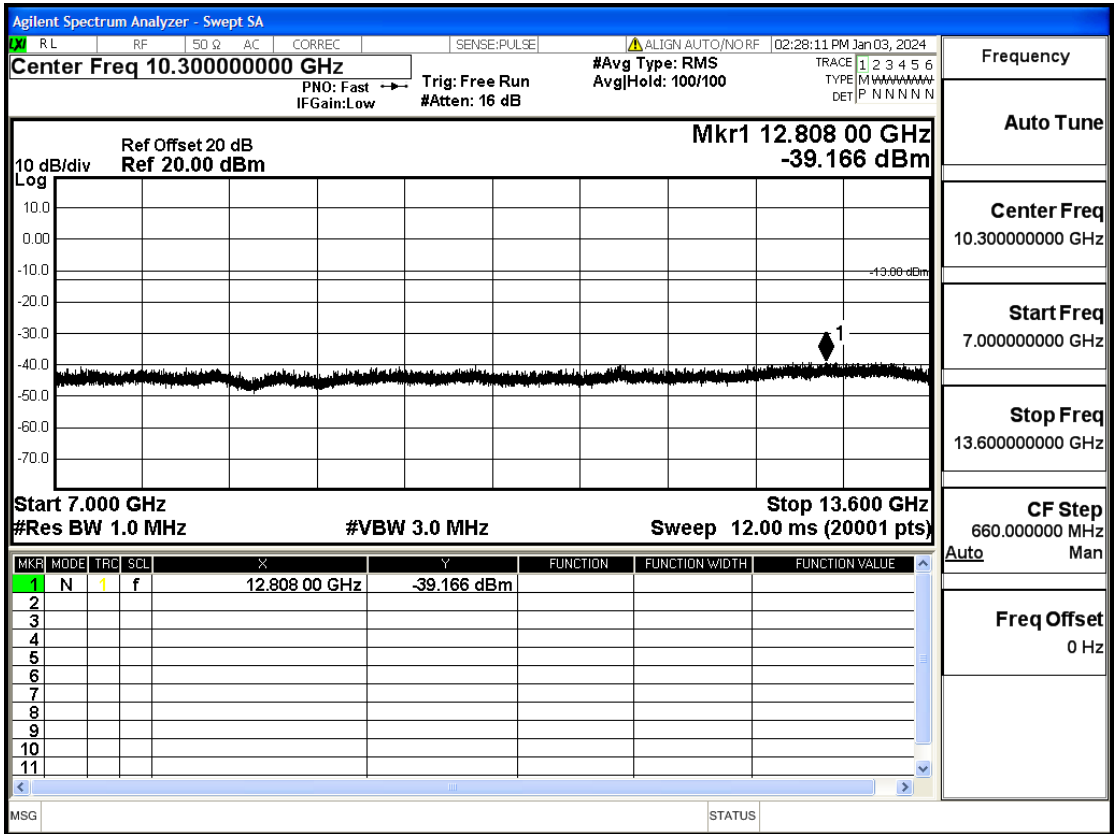
OB4-1.4-1754.3-Q16-6#LOW@30mHz-1GHz@Pass



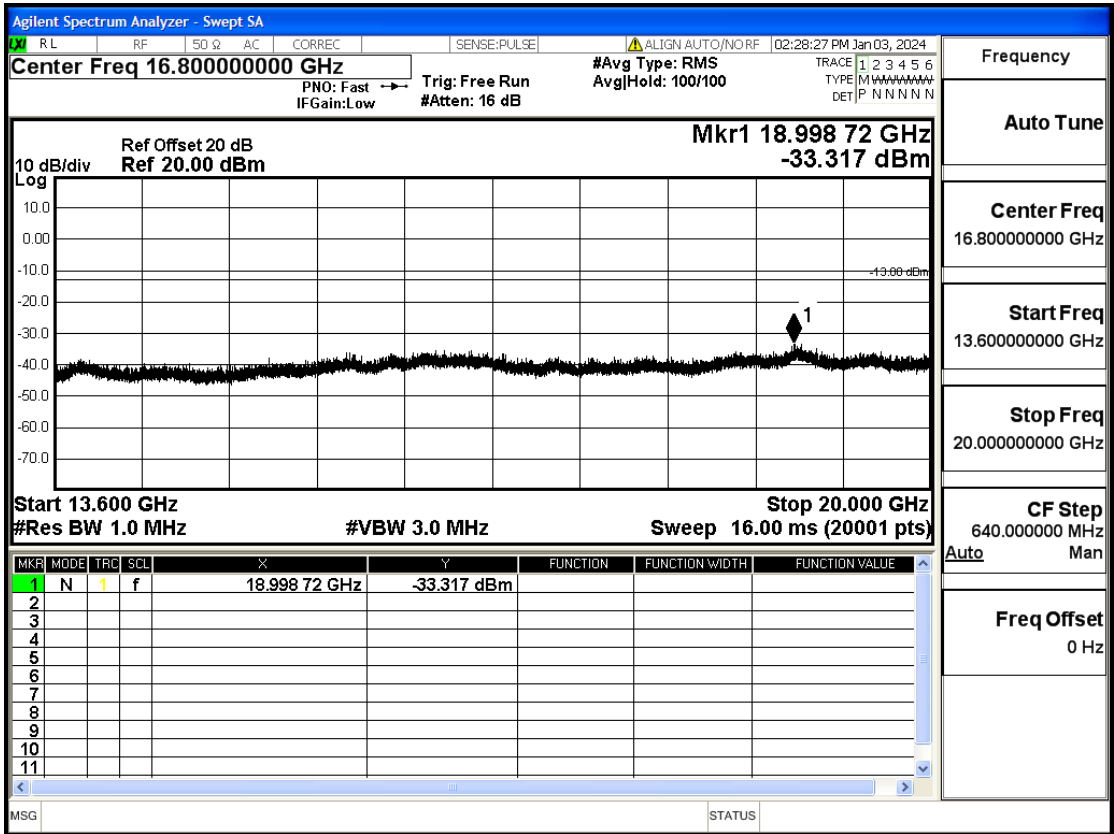
OB4-1.4-1754.3-Q16-6#LOW@1GHz-7GHz@Pass



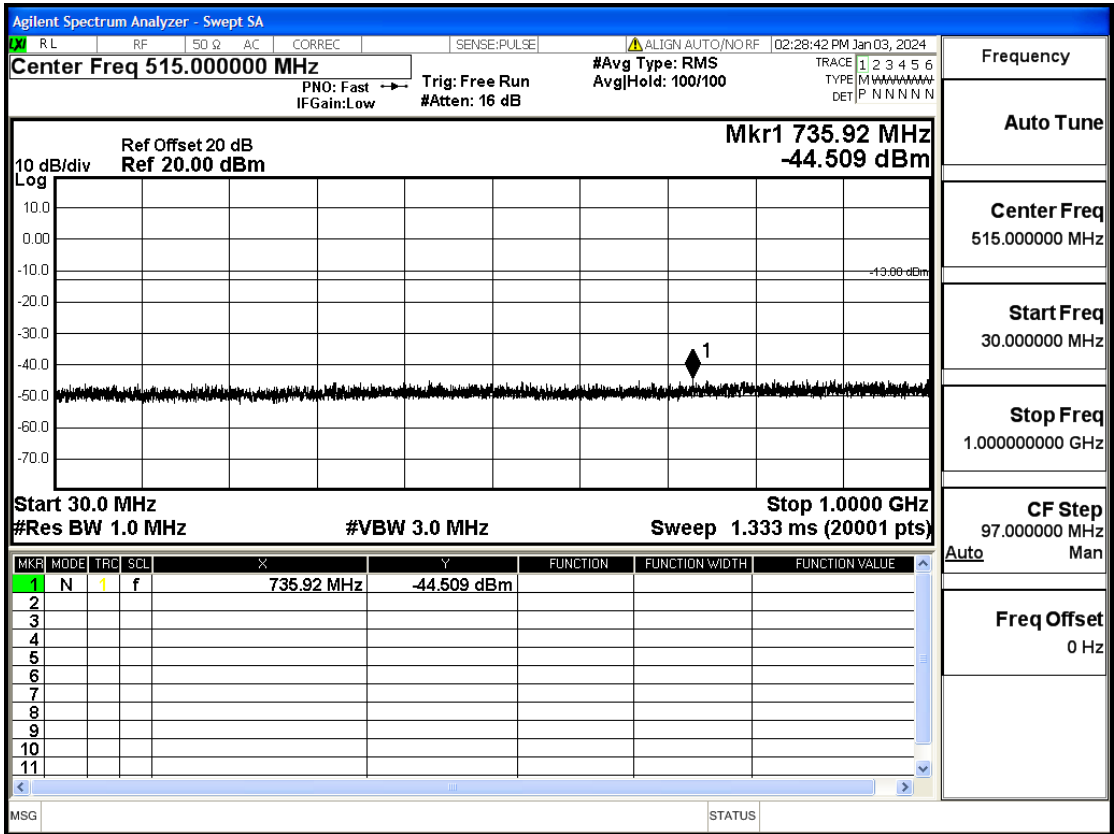
OB4-1.4-1754.3-Q16-6#LOW@7GHz-13.6GHz@Pass



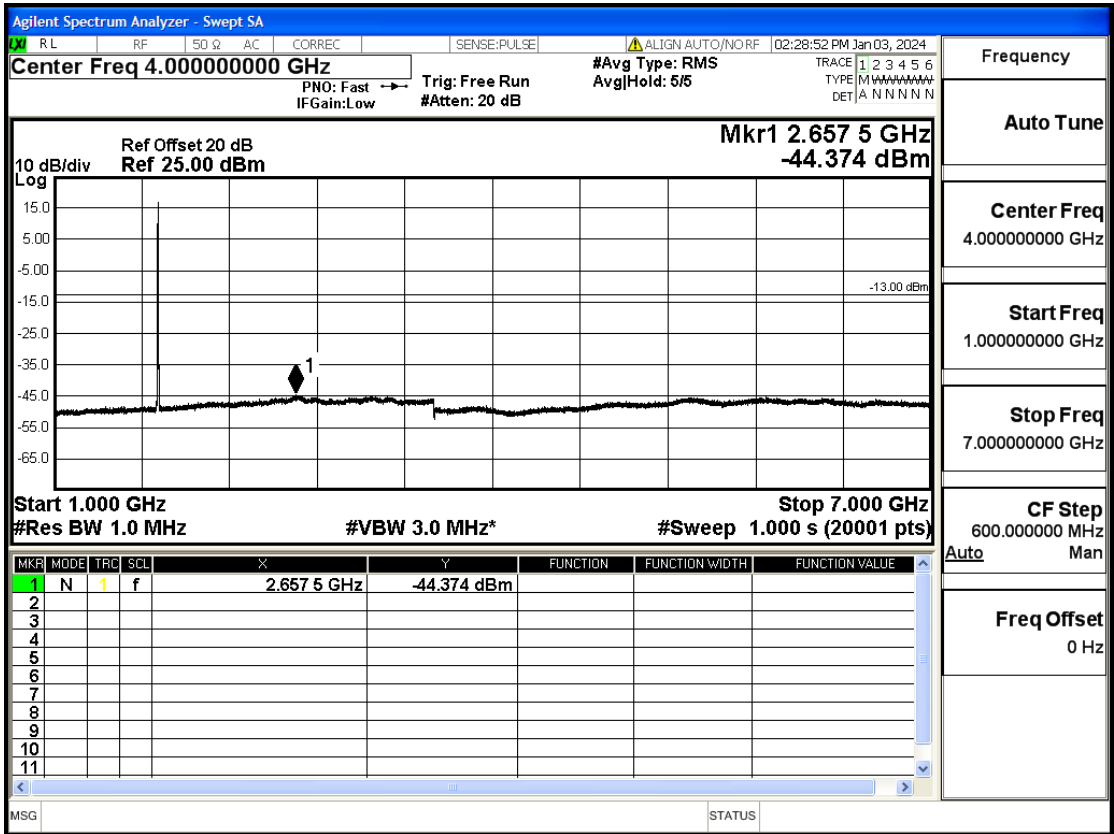
OB4-1.4-1754.3-Q16-6#LOW@13.6GHz-20GHz@Pass



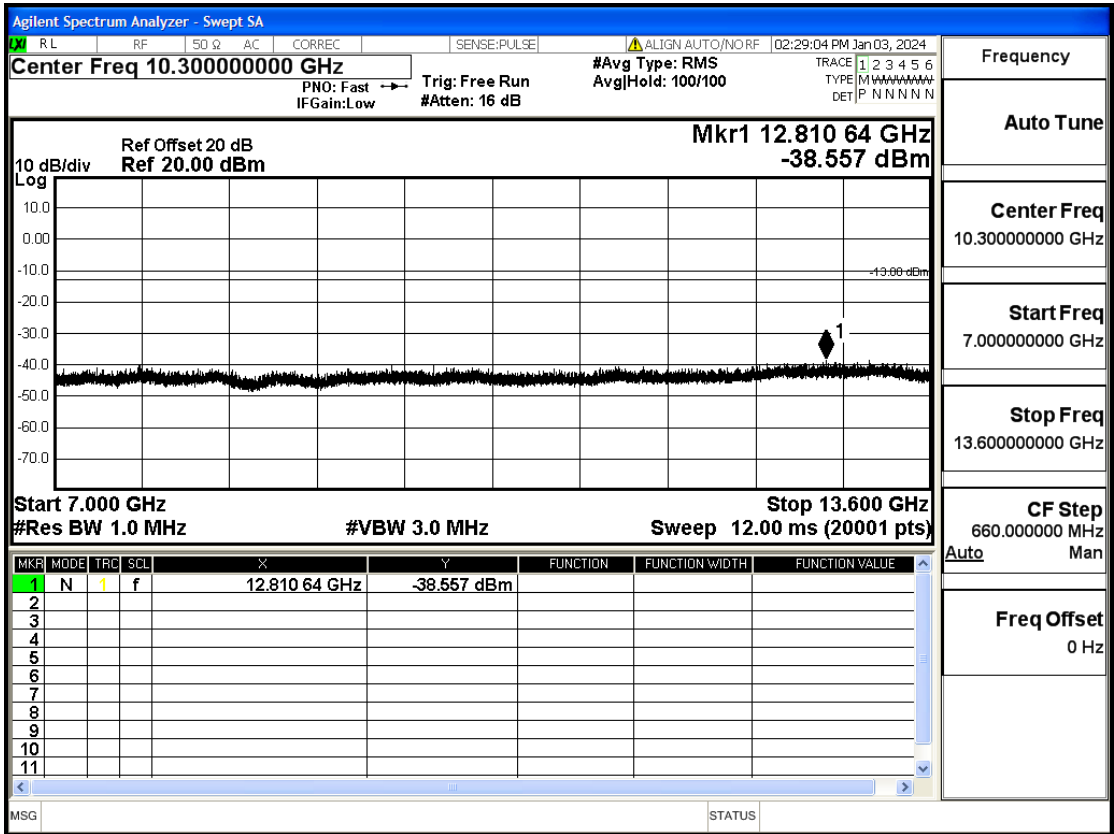
OB4-3-1711.5-Q16-15#LOW@30mHz-1GHz@Pass



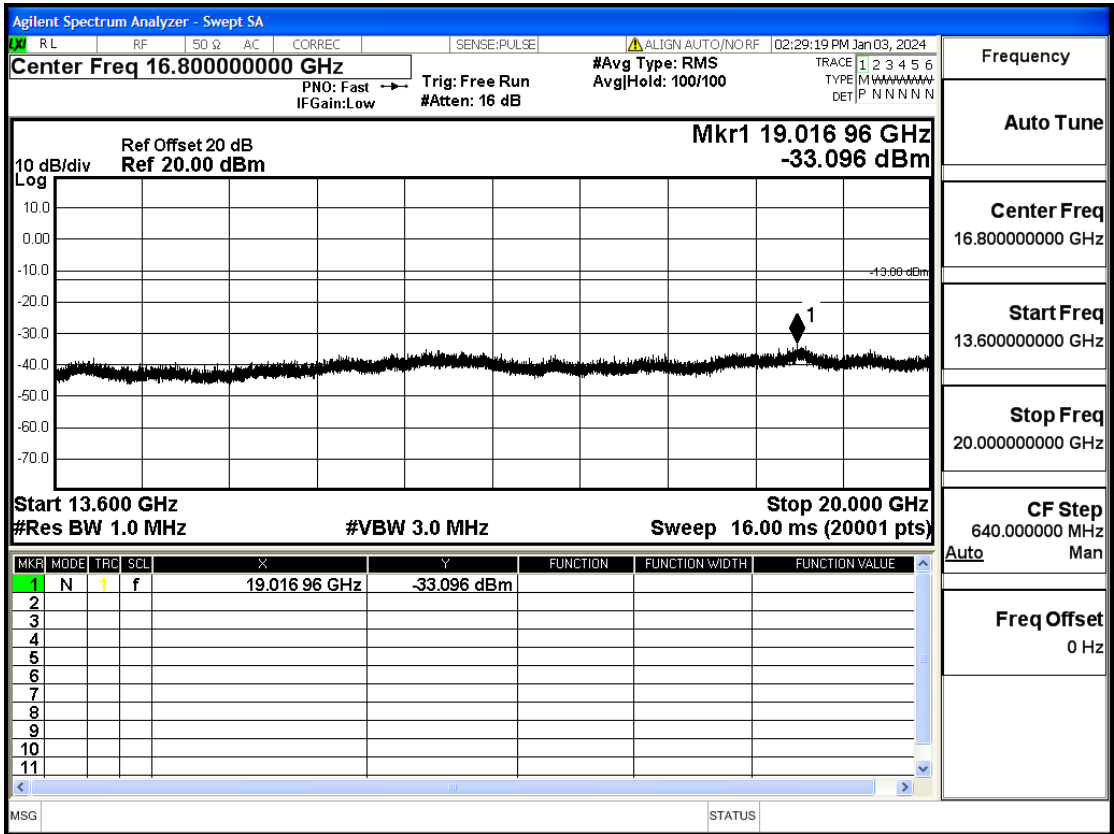
OB4-3-1711.5-Q16-15#LOW@1GHz-7GHz@Pass



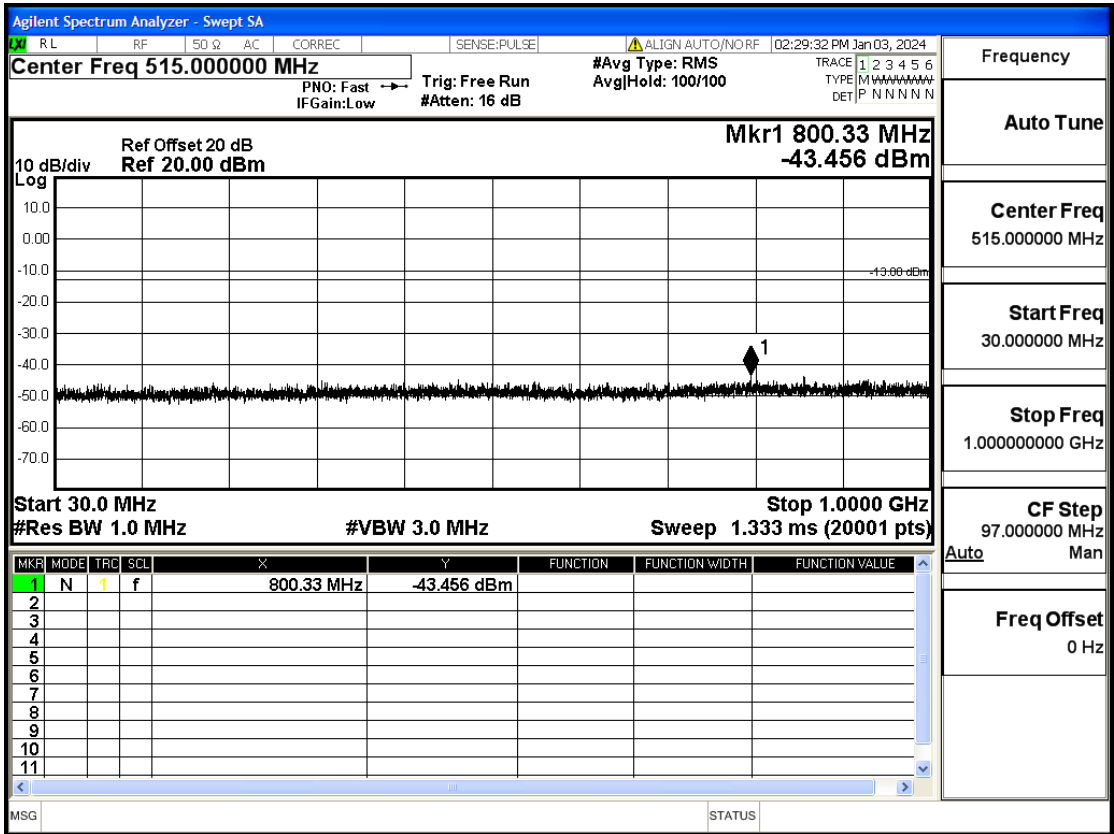
OB4-3-1711.5-Q16-15#LOW@7GHz-13.6GHz@Pass



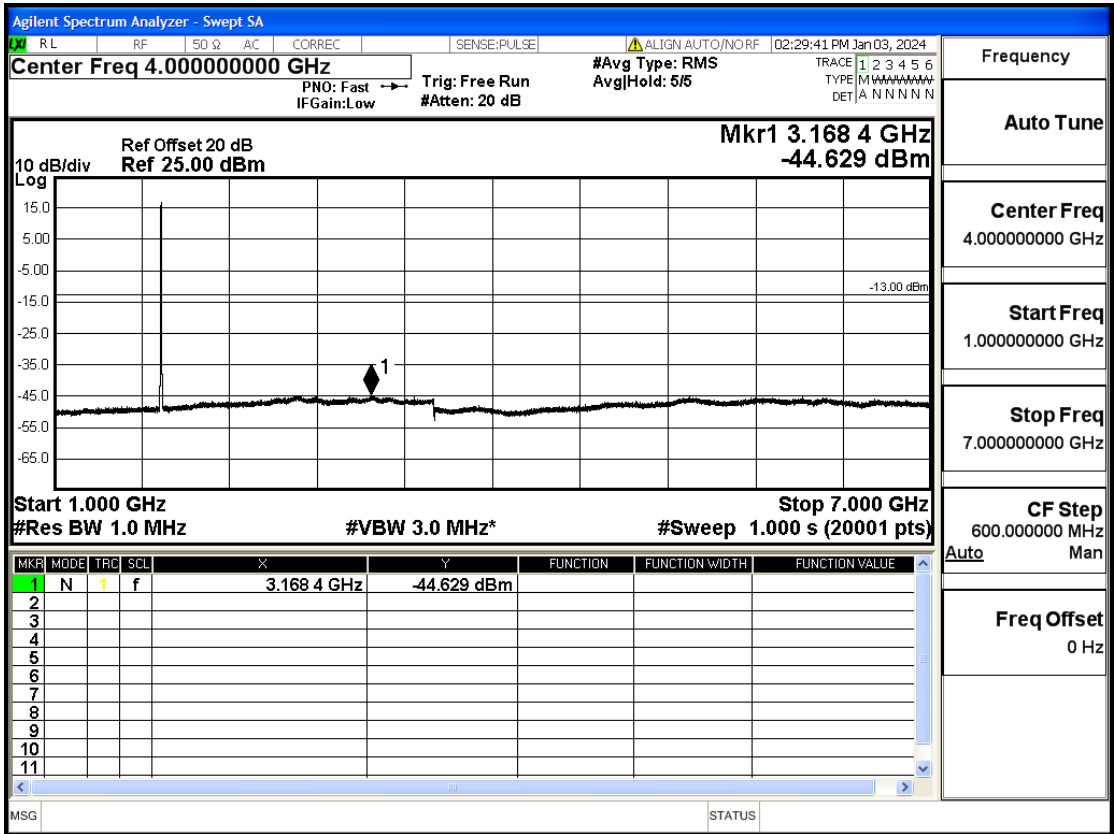
OB4-3-1711.5-Q16-15#LOW@13.6GHz-20GHz@Pass



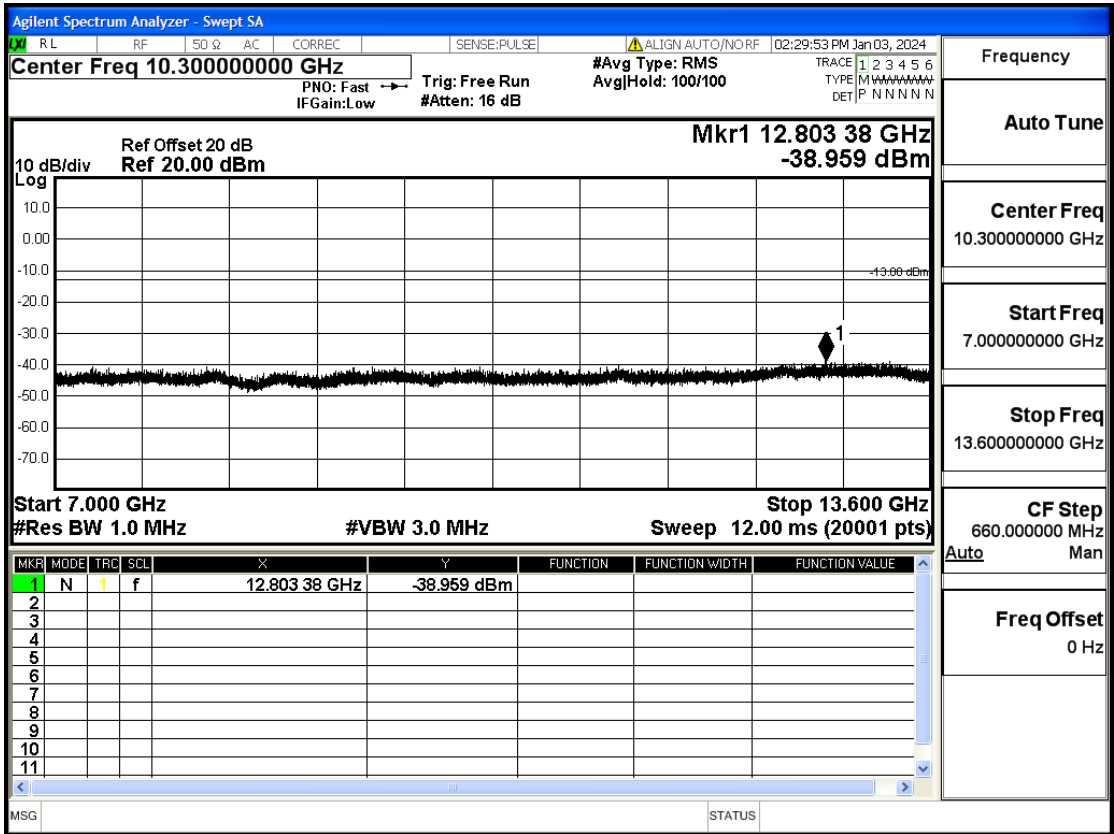
OB4-3-1732.5-Q16-15#LOW@30mHz-1GHz@Pass



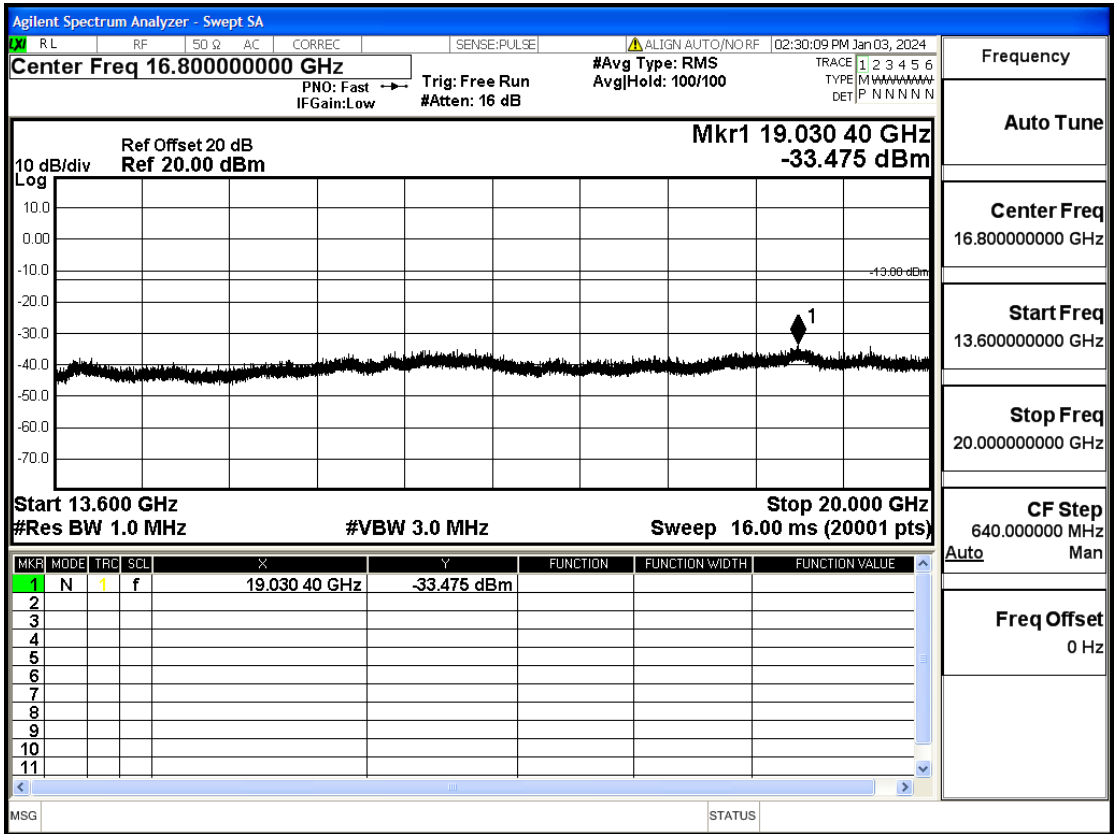
OB4-3-1732.5-Q16-15#LOW@1GHz-7GHz@Pass



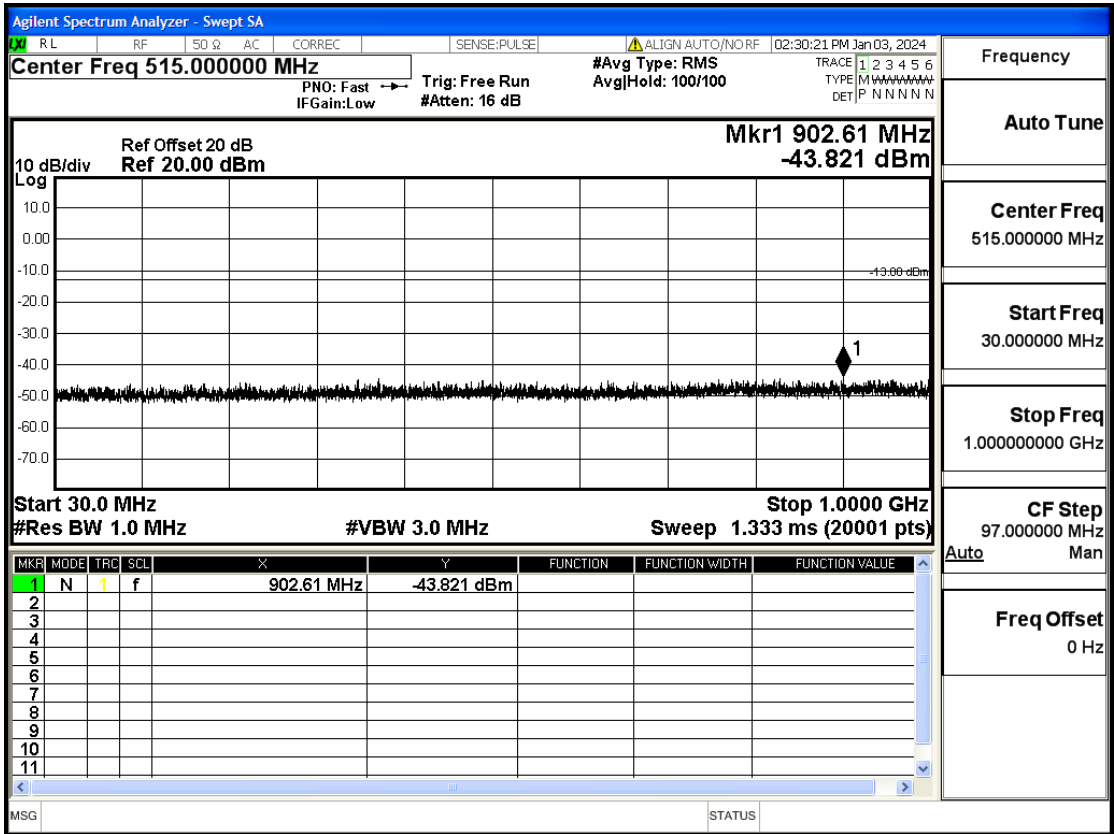
OB4-3-1732.5-Q16-15#LOW@7GHz-13.6GHz@Pass



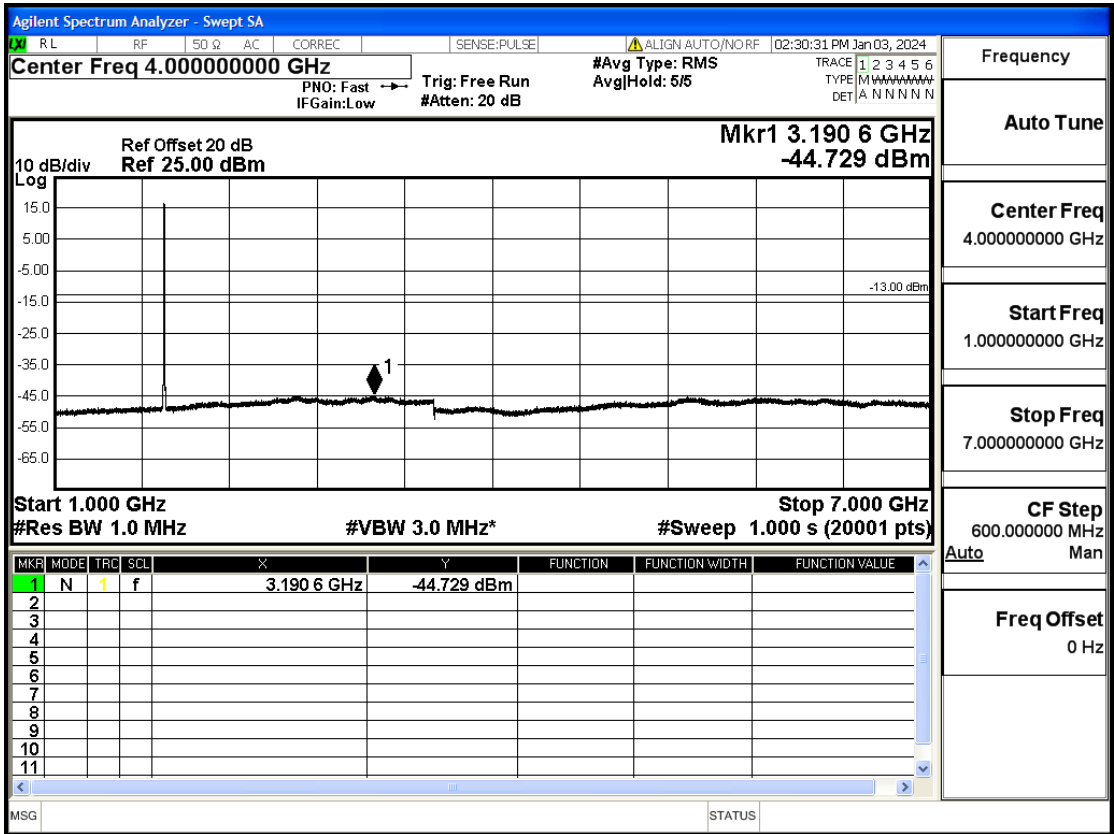
OB4-3-1732.5-Q16-15#LOW@13.6GHz-20GHz@Pass



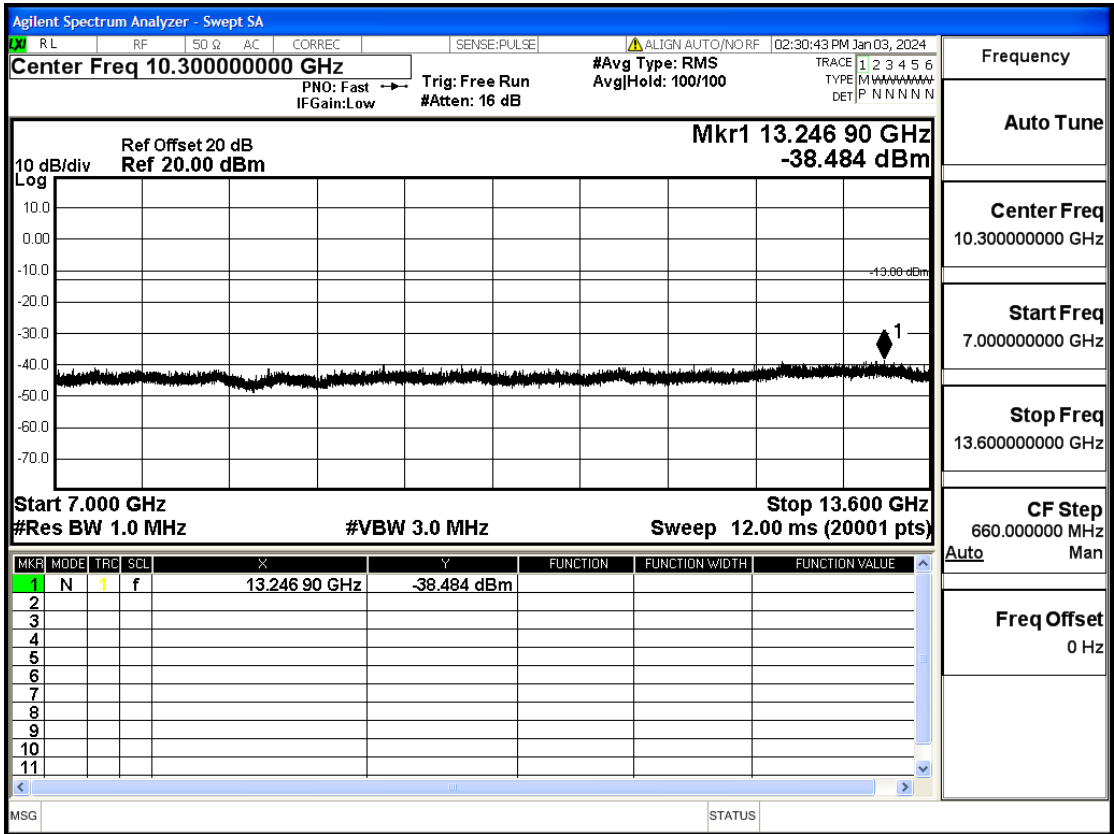
OB4-3-1753.5-Q16-15#LOW@30mHz-1GHz@Pass



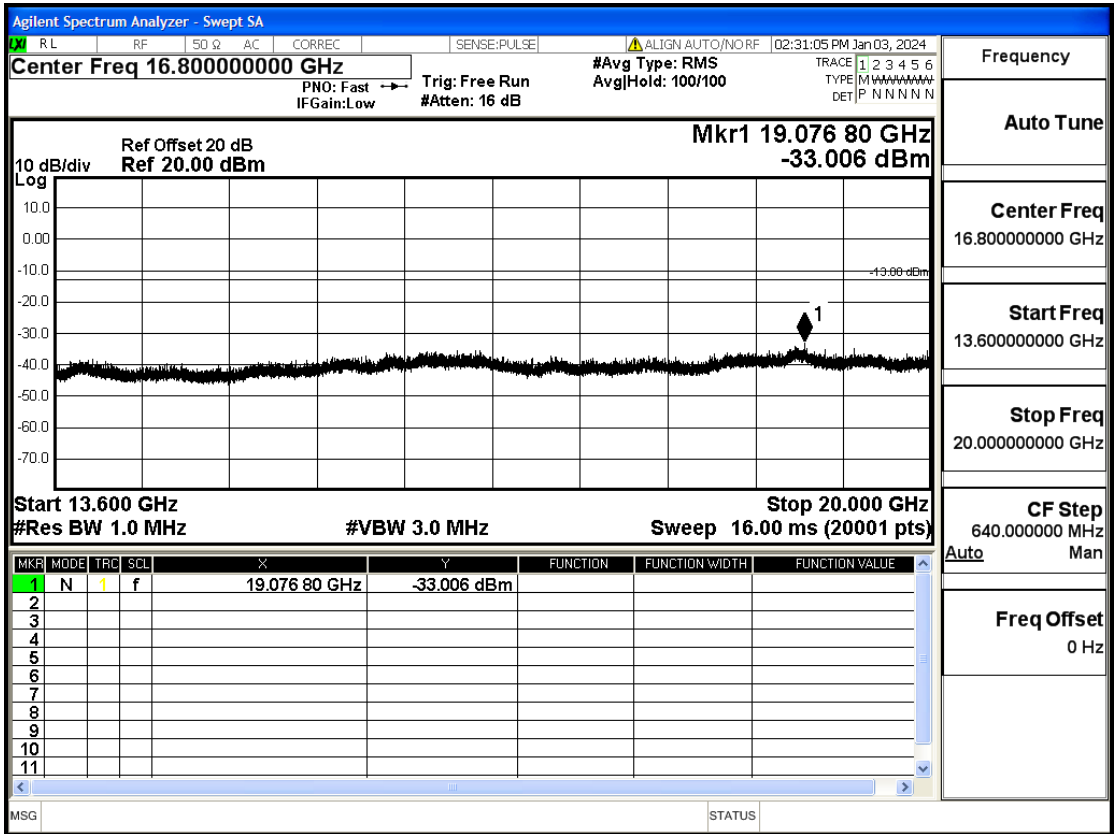
OB4-3-1753.5-Q16-15#LOW@1GHz-7GHz@Pass



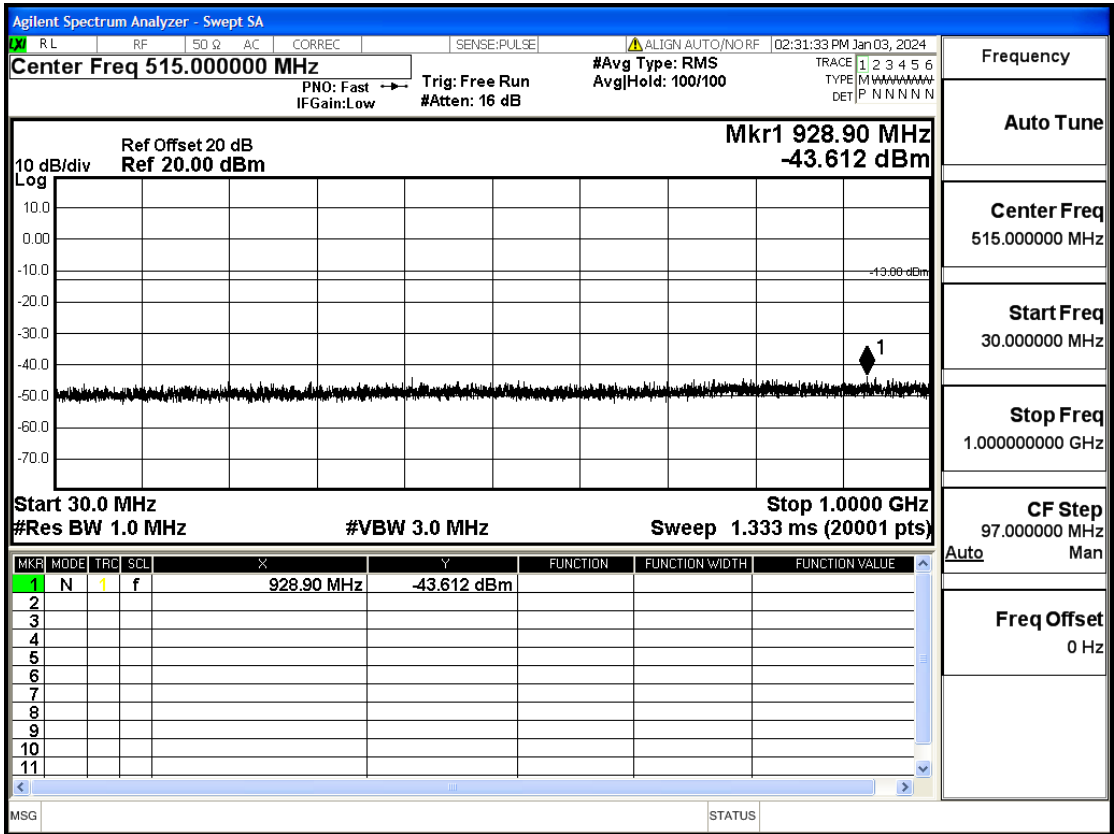
OB4-3-1753.5-Q16-15#LOW@7GHz-13.6GHz@Pass



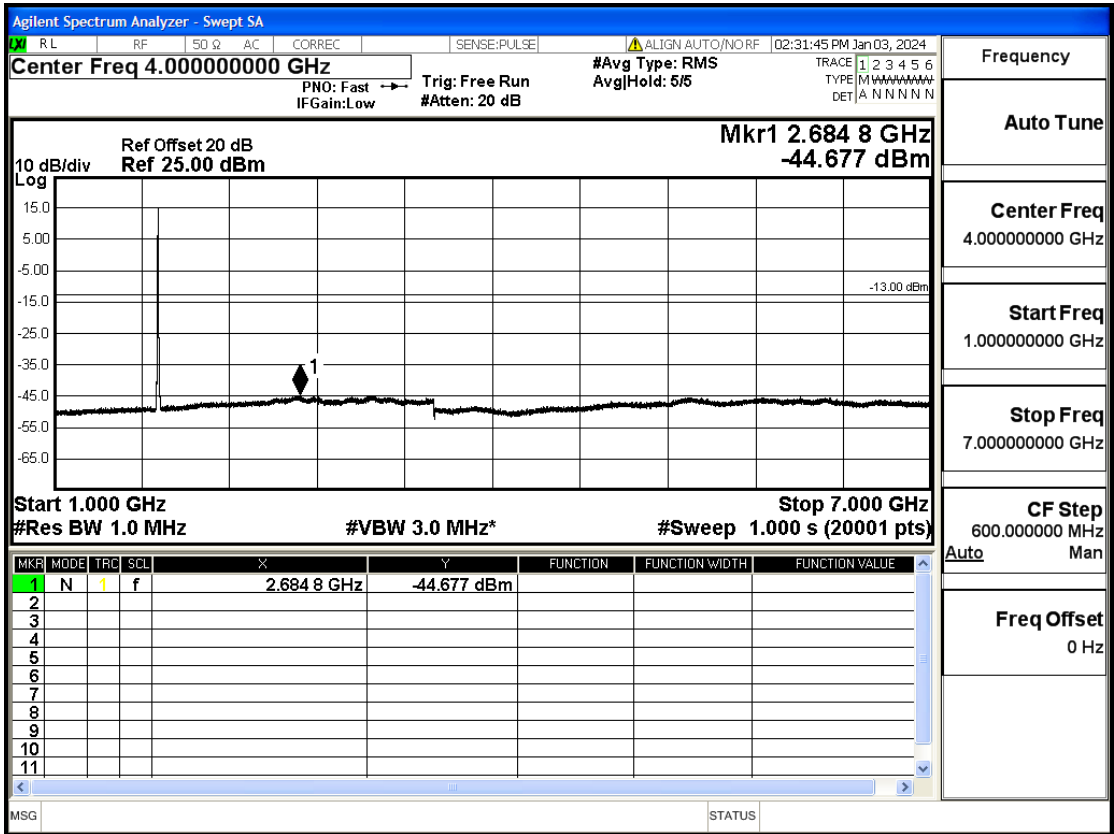
OB4-3-1753.5-Q16-15#LOW@13.6GHz-20GHz@Pass



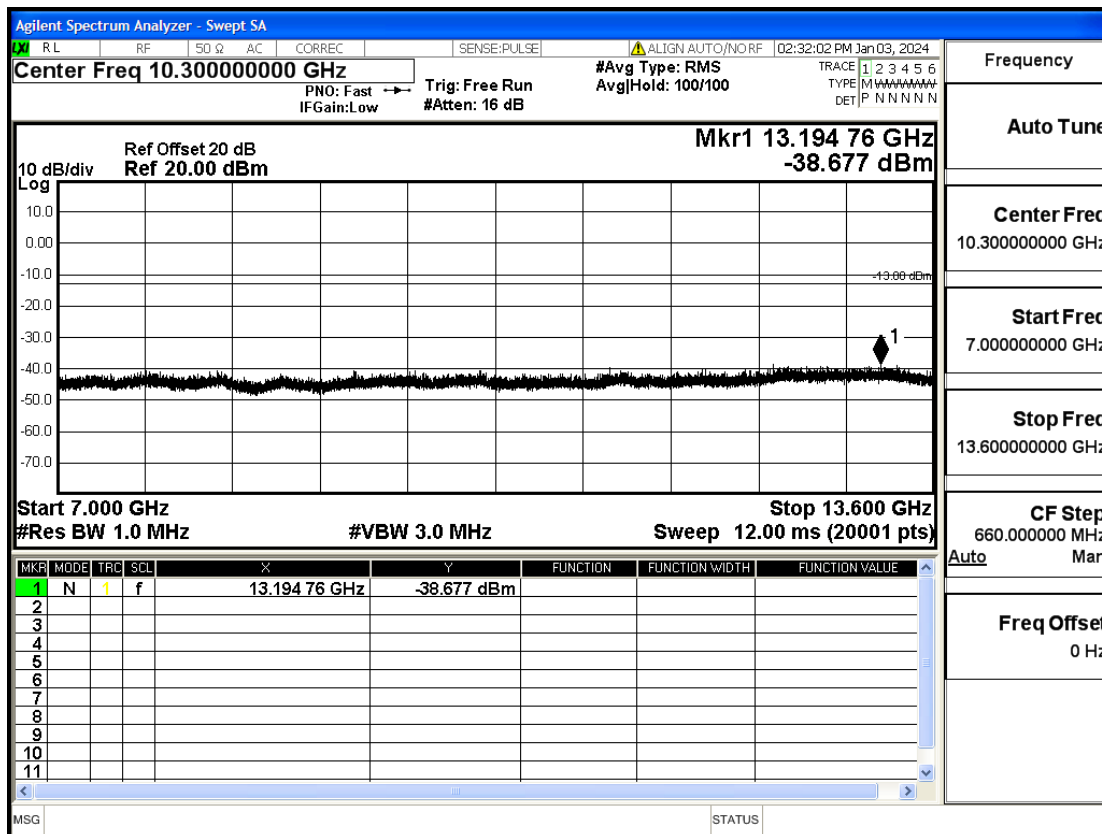
OB4-5-1712.5-Q16-25#LOW@30mHz-1GHz@Pass



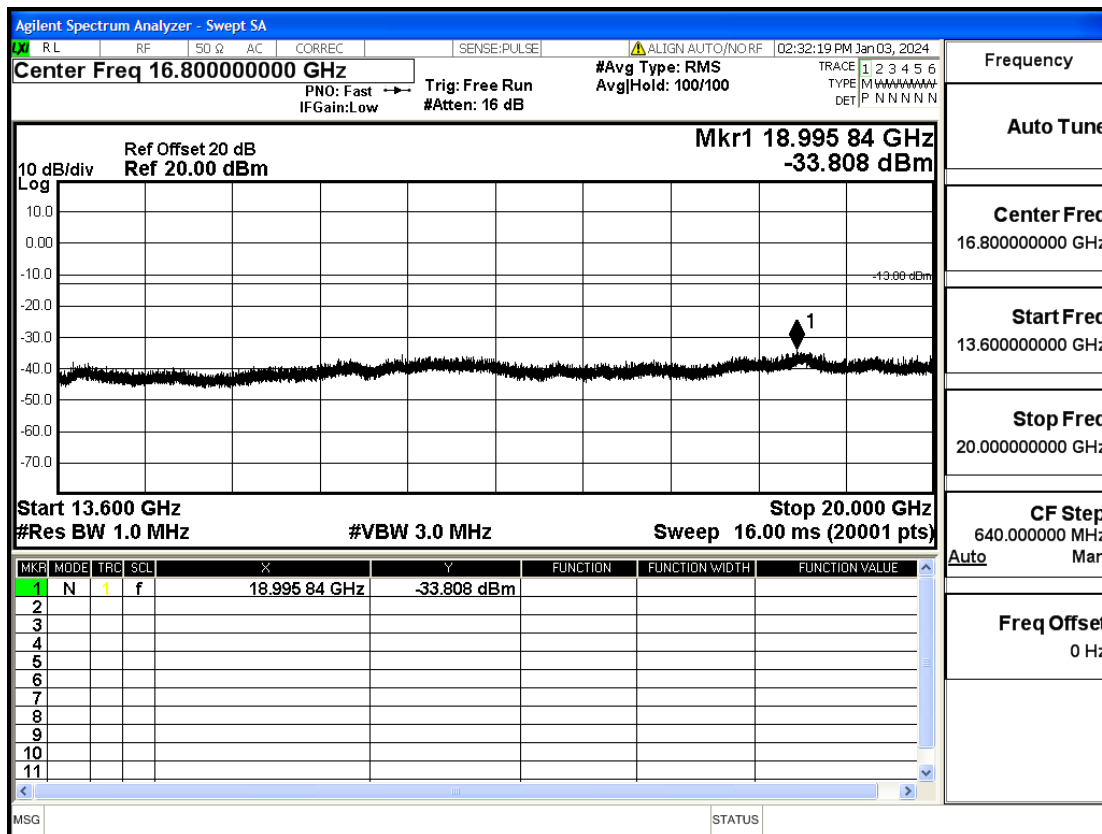
OB4-5-1712.5-Q16-25#LOW@1GHz-7GHz@Pass



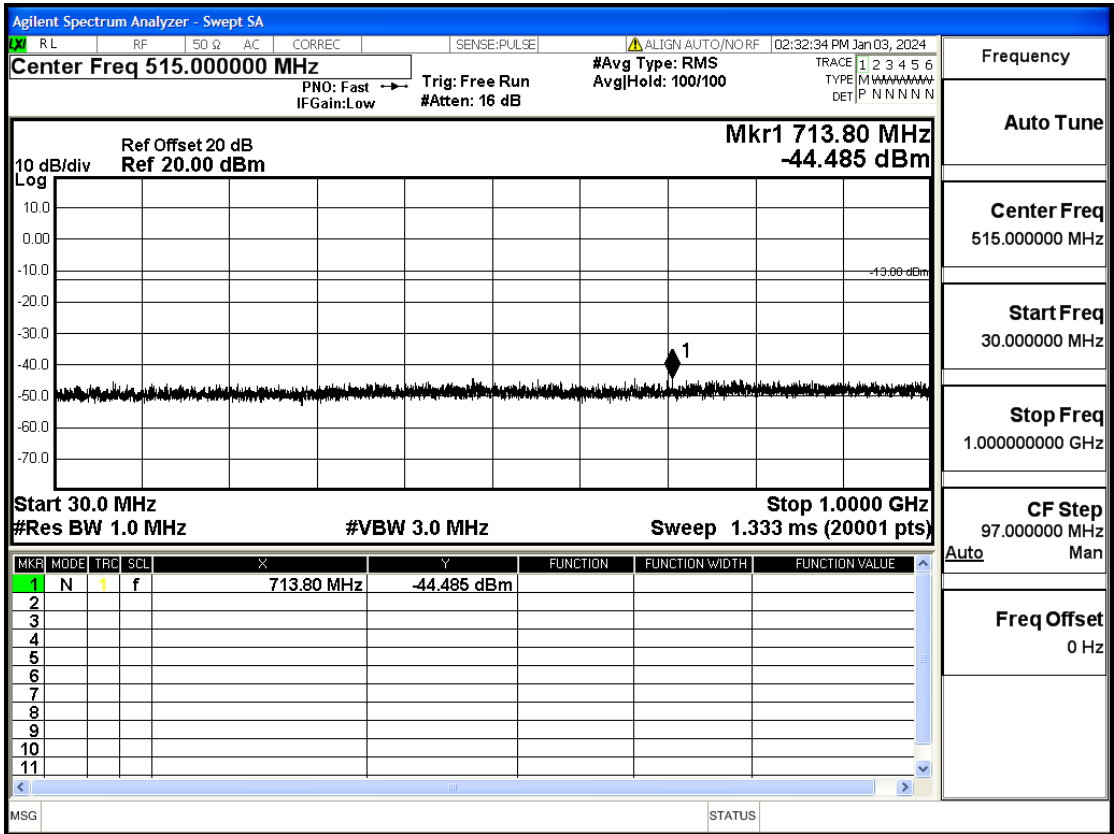
OB4-5-1712.5-Q16-25#LOW@7GHz-13.6GHz@Pass



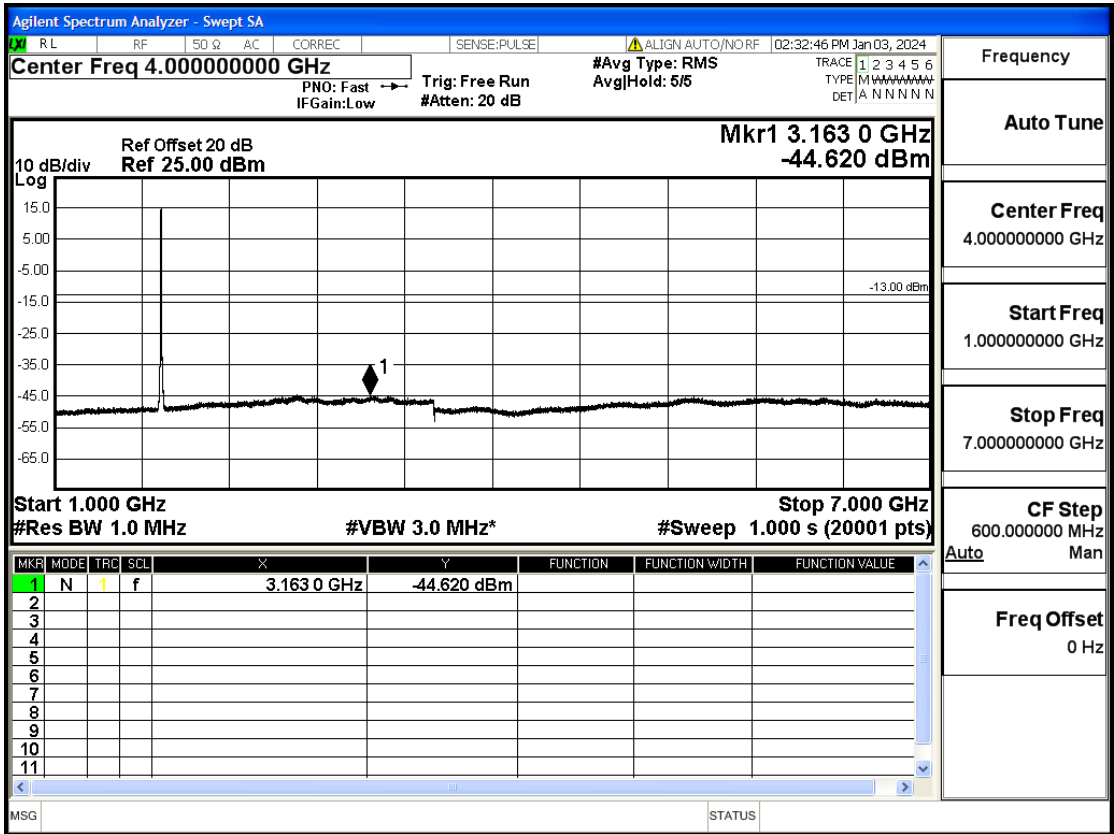
OB4-5-1712.5-Q16-25#LOW@13.6GHz-20GHz@Pass



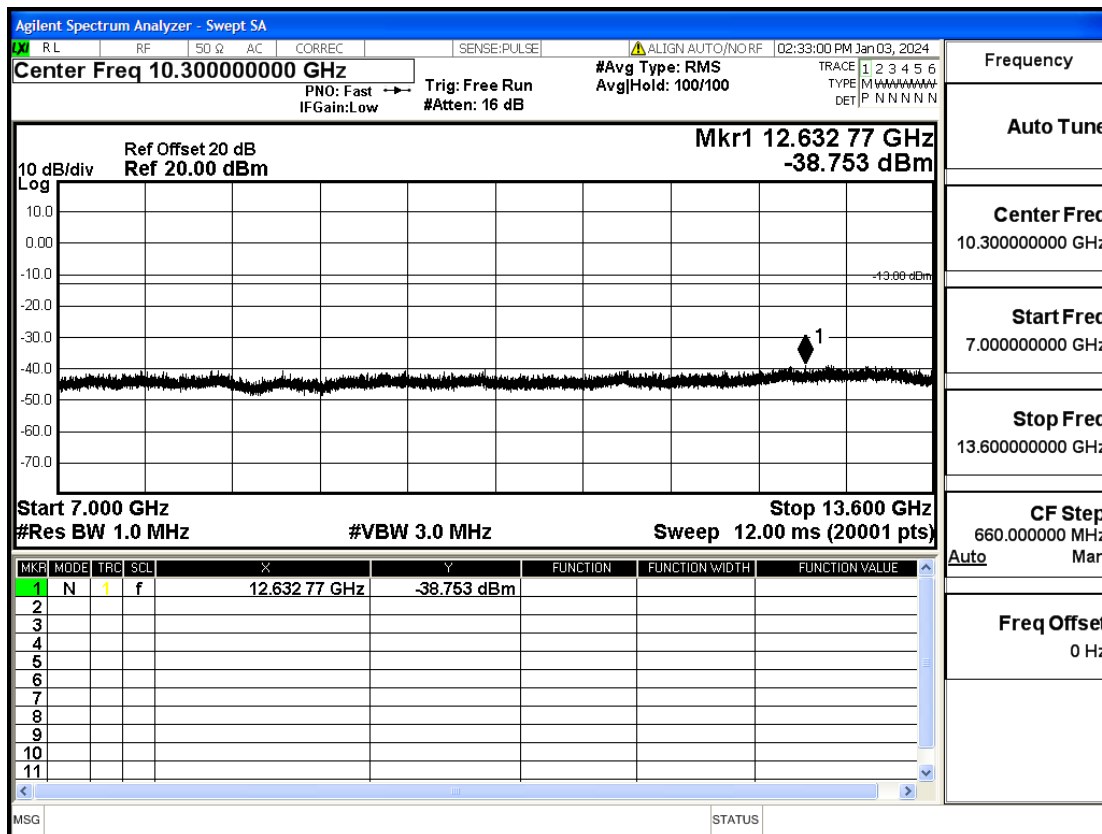
OB4-5-1732.5-Q16-25#LOW@30mHz-1GHz@Pass



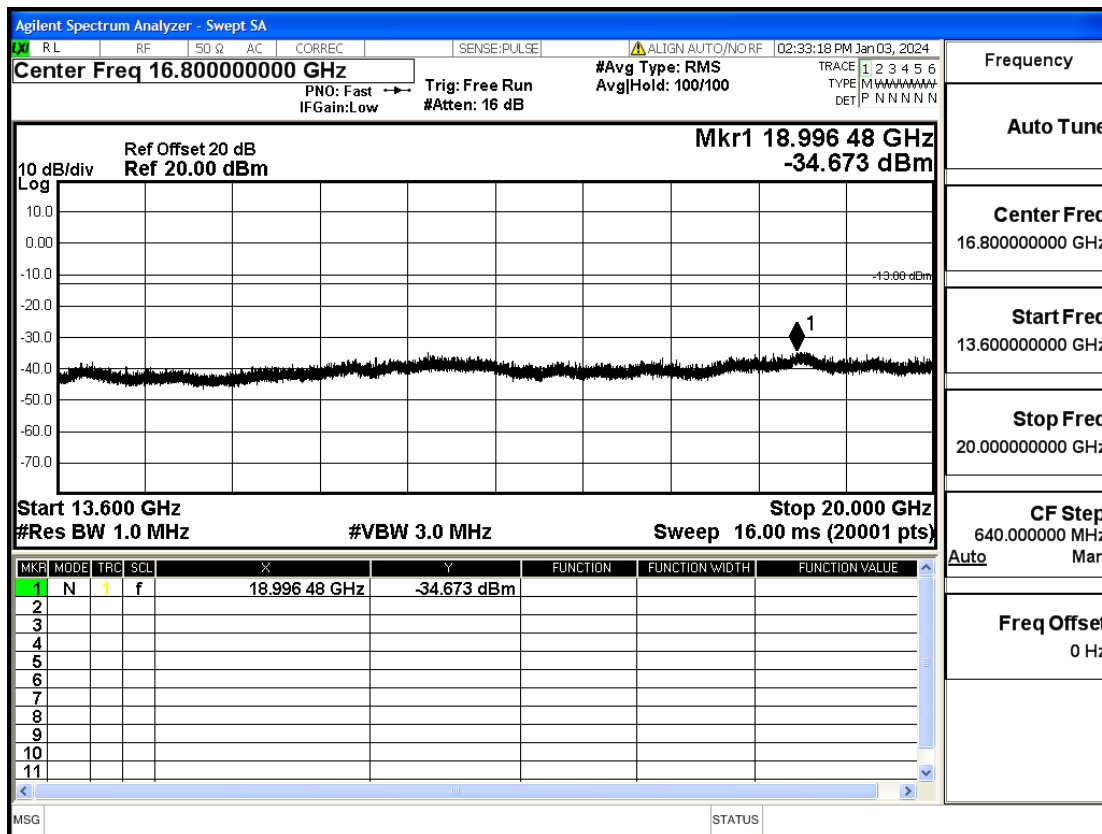
OB4-5-1732.5-Q16-25#LOW@1GHz-7GHz@Pass



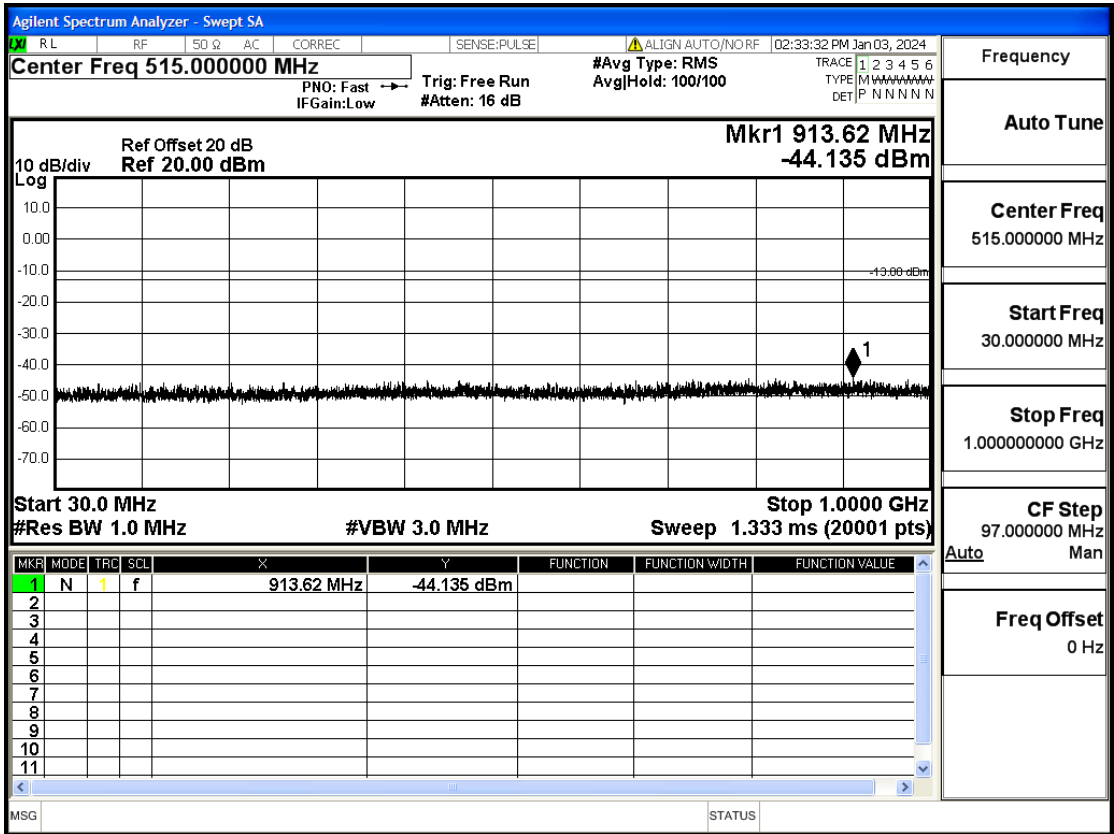
OB4-5-1732.5-Q16-25#LOW@7GHz-13.6GHz@Pass



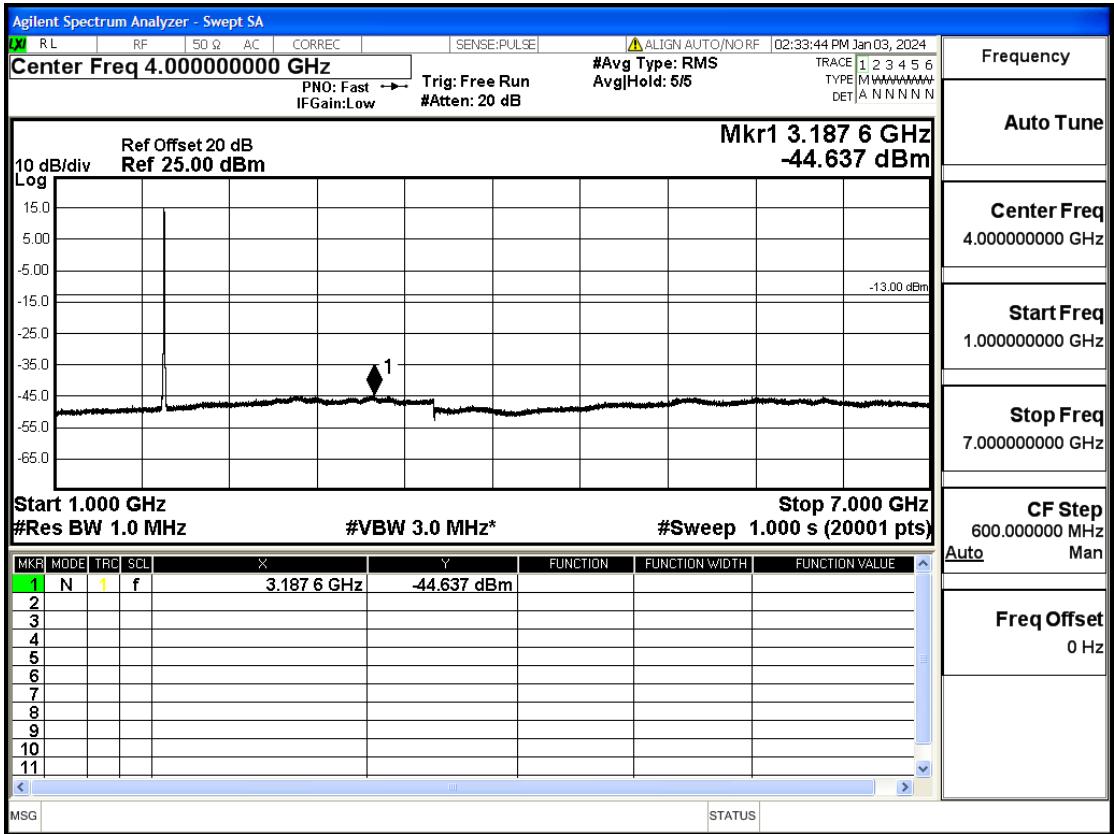
OB4-5-1732.5-Q16-25#LOW@13.6GHz-20GHz@Pass



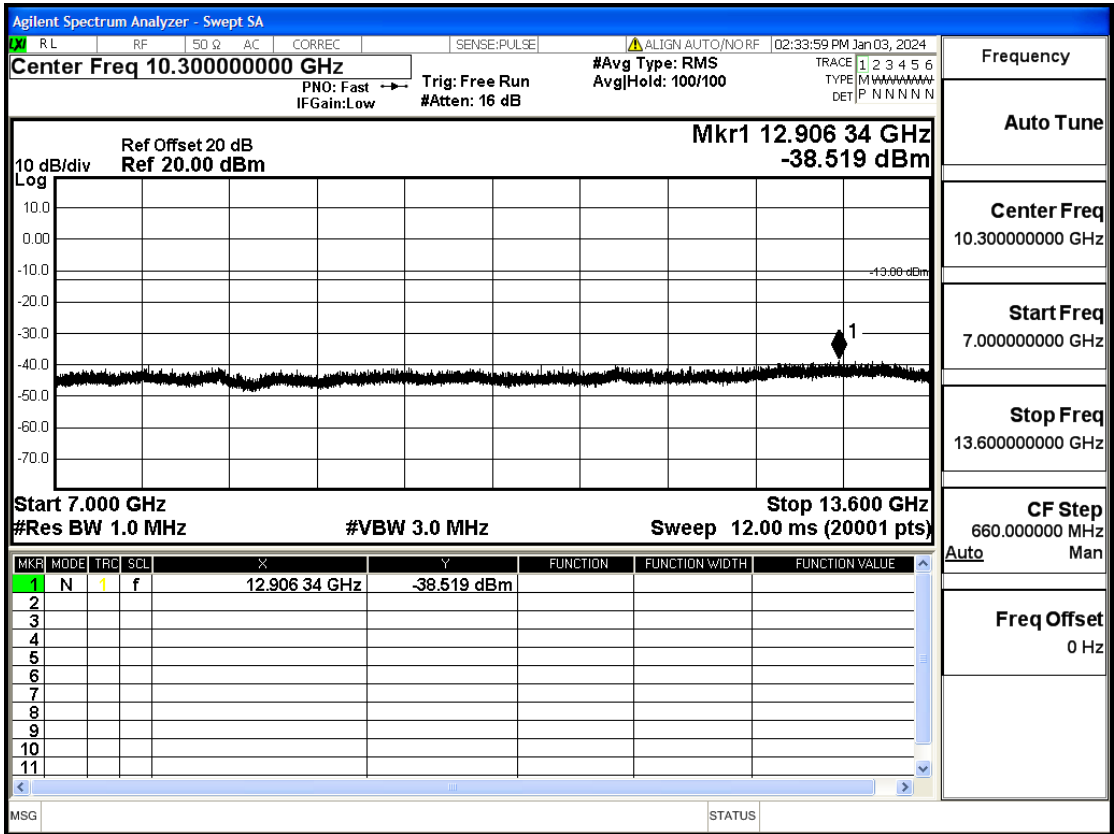
OB4-5-1752.5-Q16-25#LOW@30mHz-1GHz@Pass



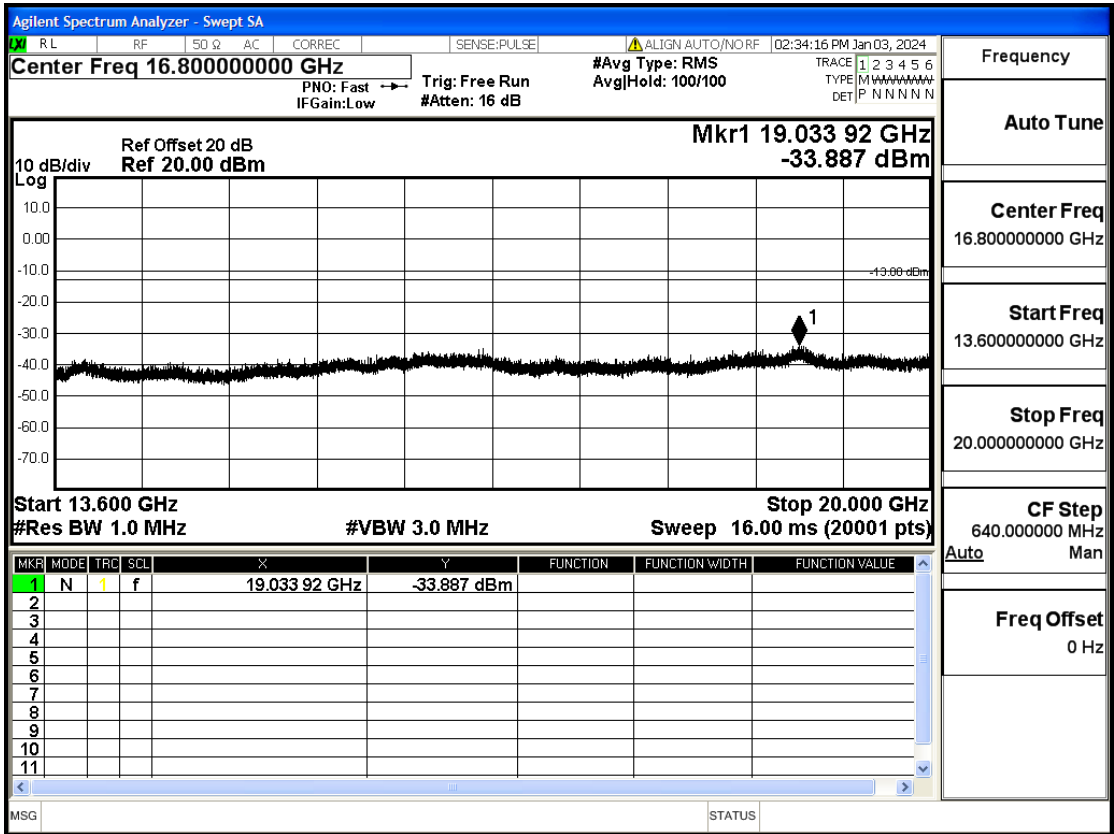
OB4-5-1752.5-Q16-25#LOW@1GHz-7GHz@Pass



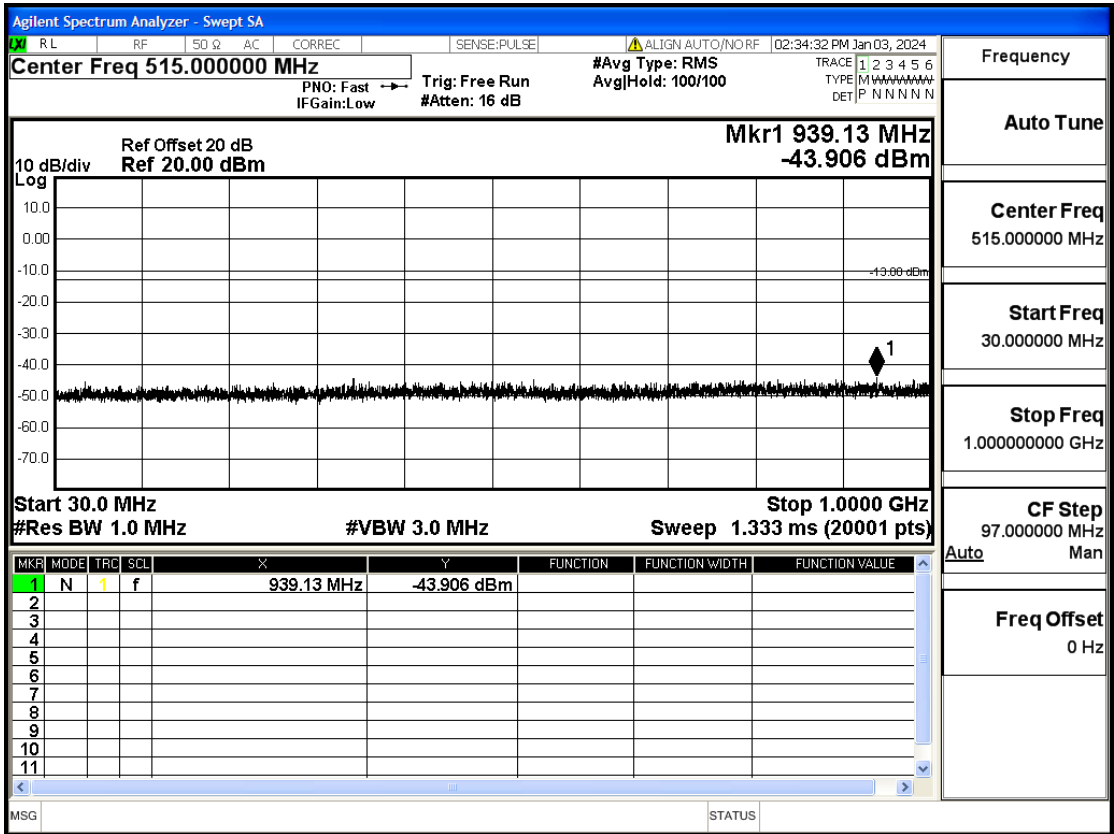
OB4-5-1752.5-Q16-25#LOW@7GHz-13.6GHz@Pass



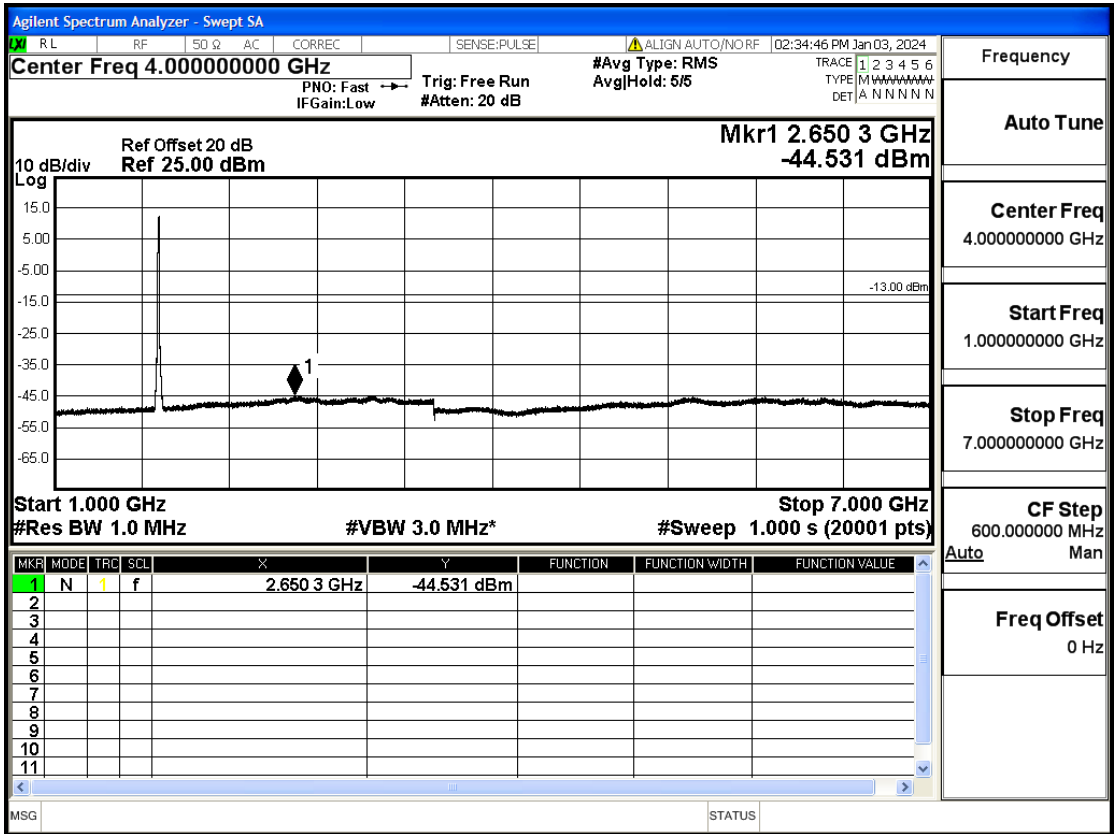
OB4-5-1752.5-Q16-25#LOW@13.6GHz-20GHz@Pass



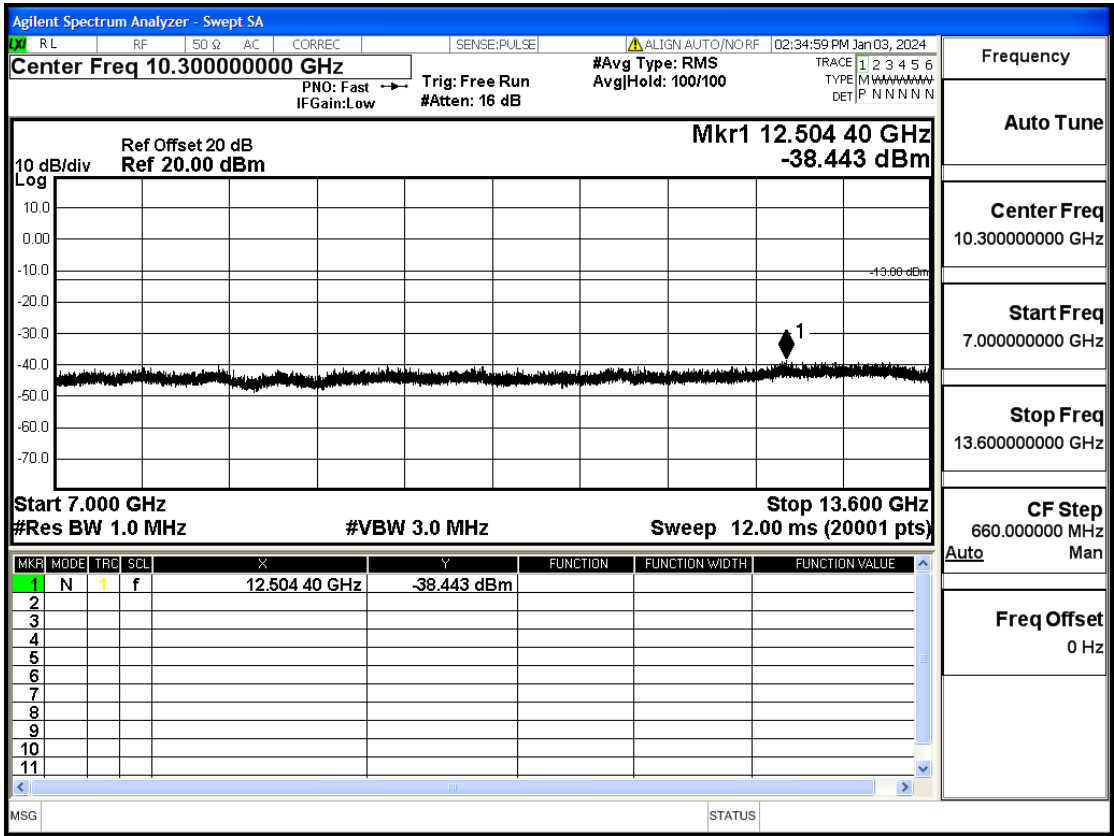
OB4-10-1715-Q16-50#LOW@30mHz-1GHz@Pass



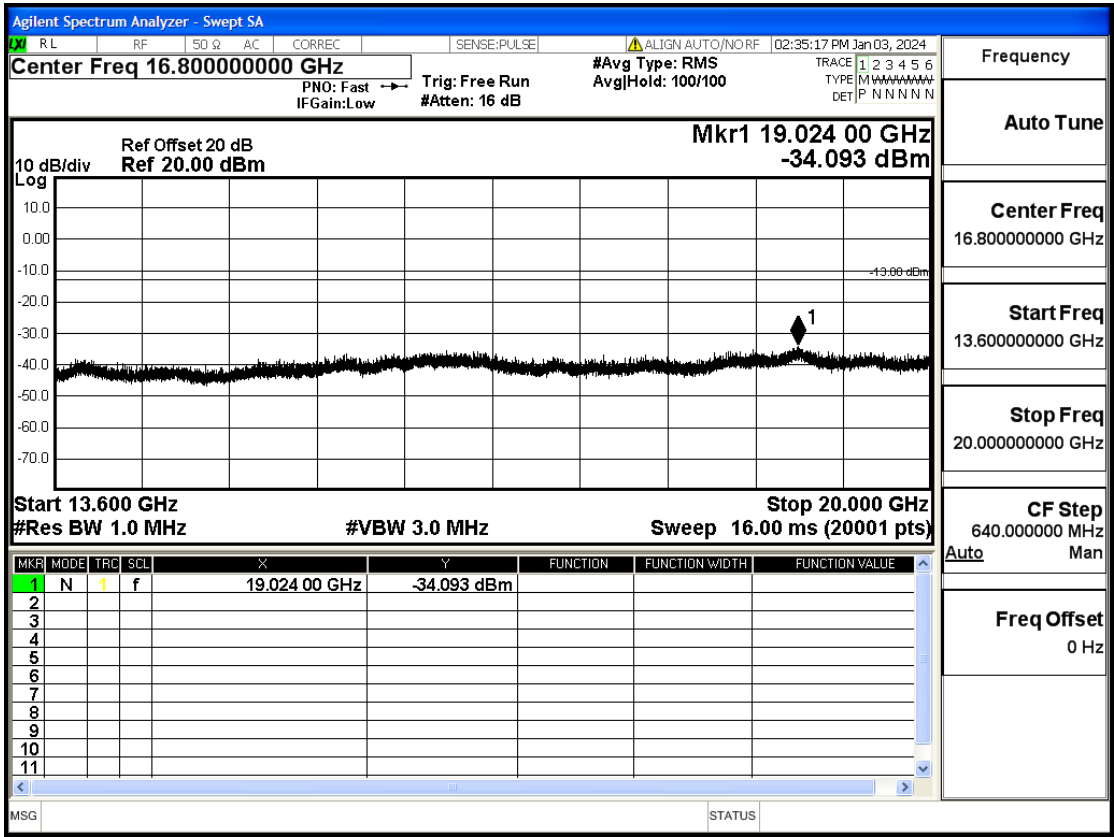
OB4-10-1715-Q16-50#LOW@1GHz-7GHz@Pass



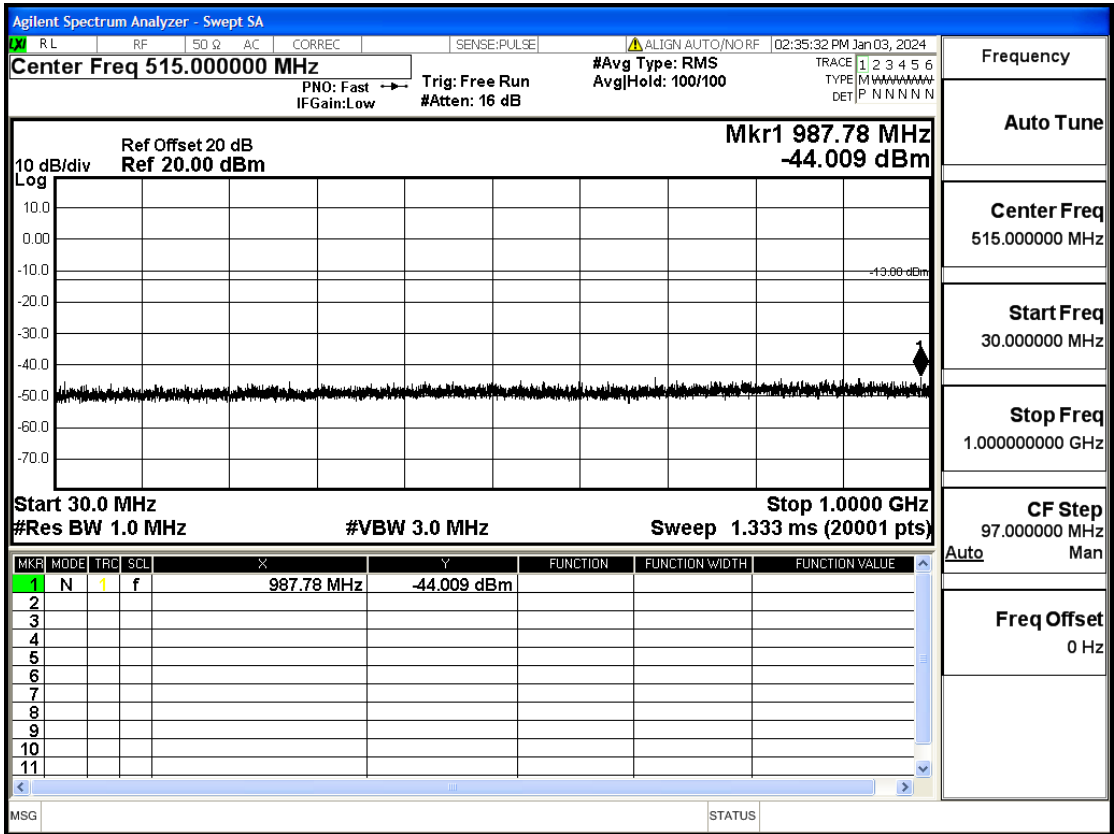
OB4-10-1715-Q16-50#LOW@7GHz-13.6GHz@Pass



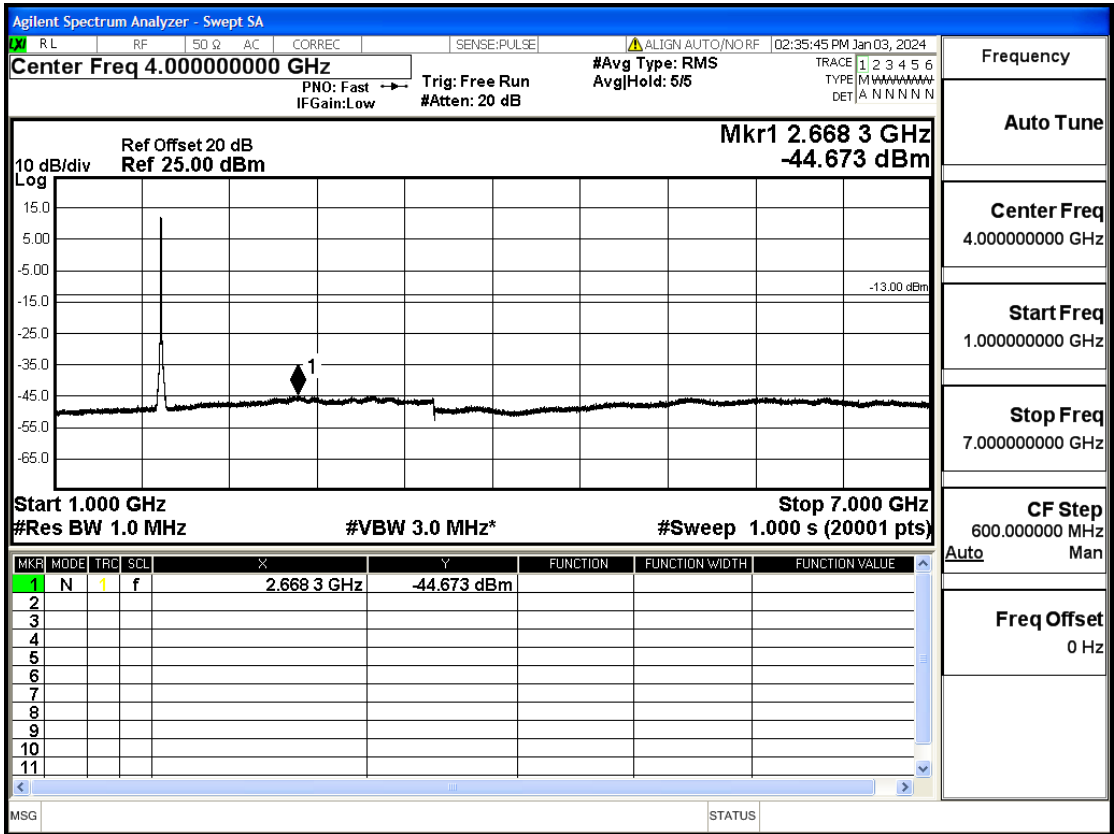
OB4-10-1715-Q16-50#LOW@13.6GHz-20GHz@Pass



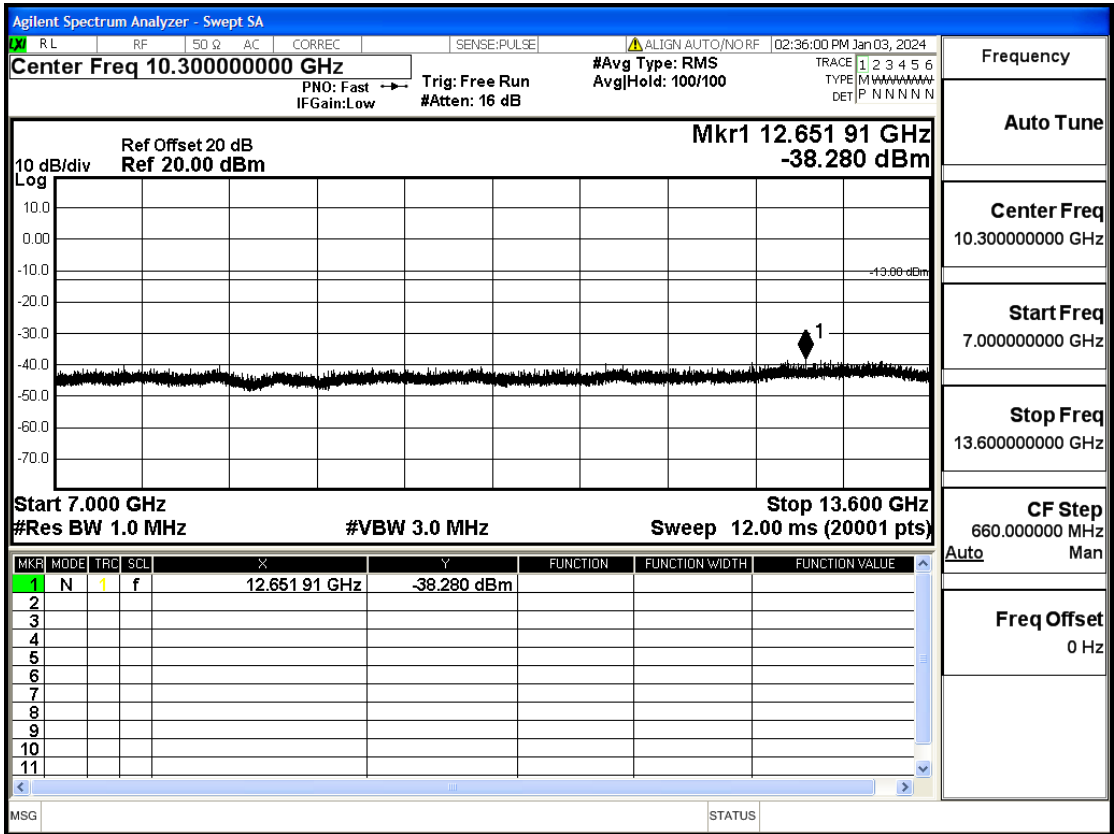
OB4-10-1732.5-Q16-50#LOW@30mHz-1GHz@Pass



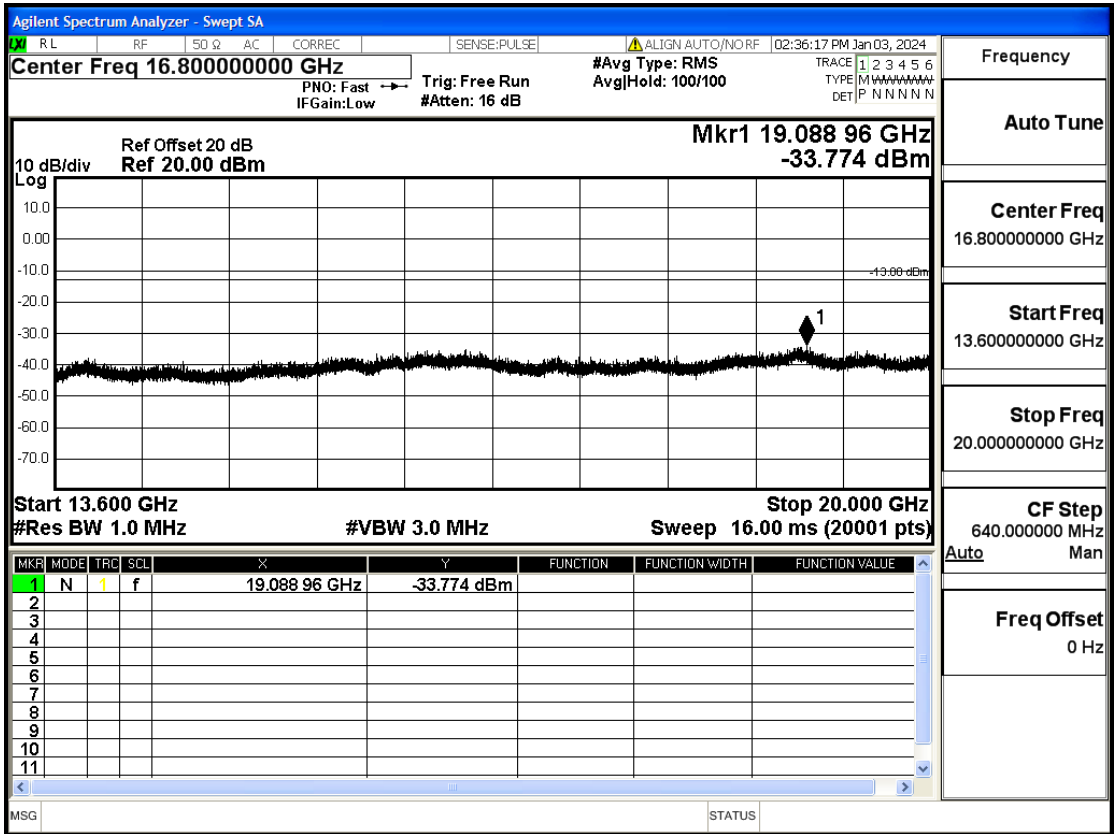
OB4-10-1732.5-Q16-50#LOW@1GHz-7GHz@Pass



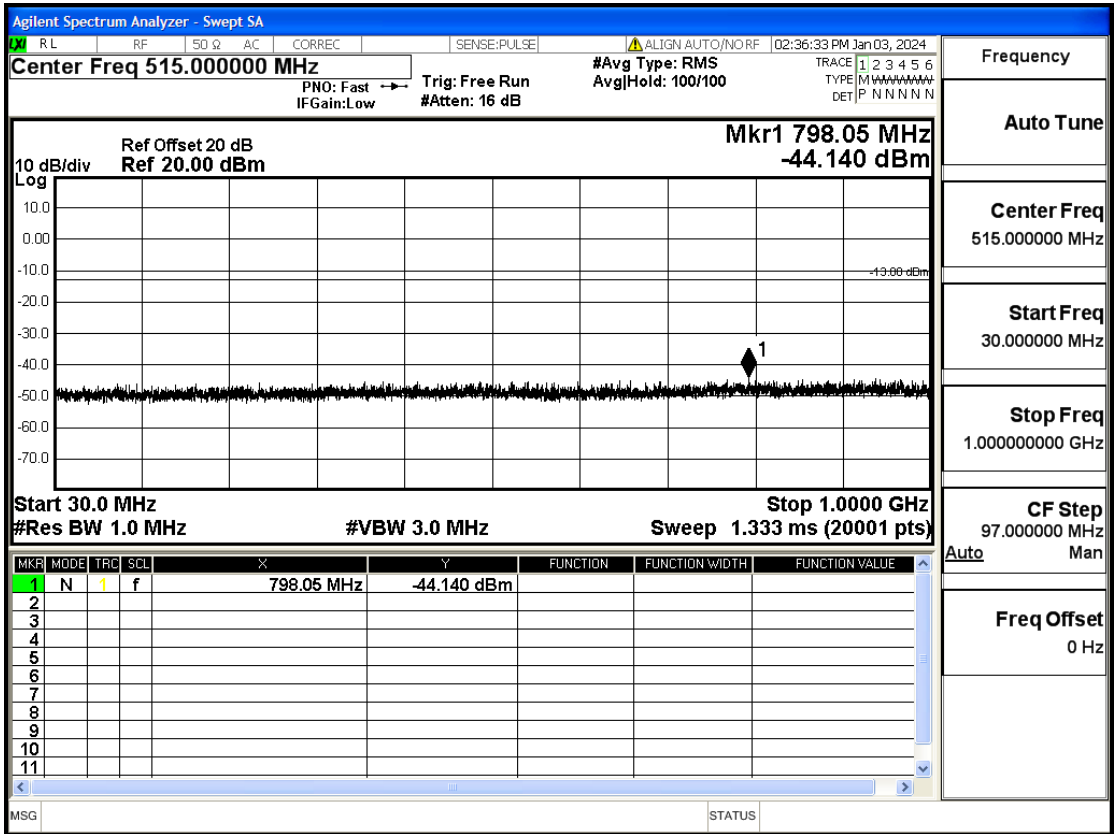
OB4-10-1732.5-Q16-50#LOW@7GHz-13.6GHz@Pass



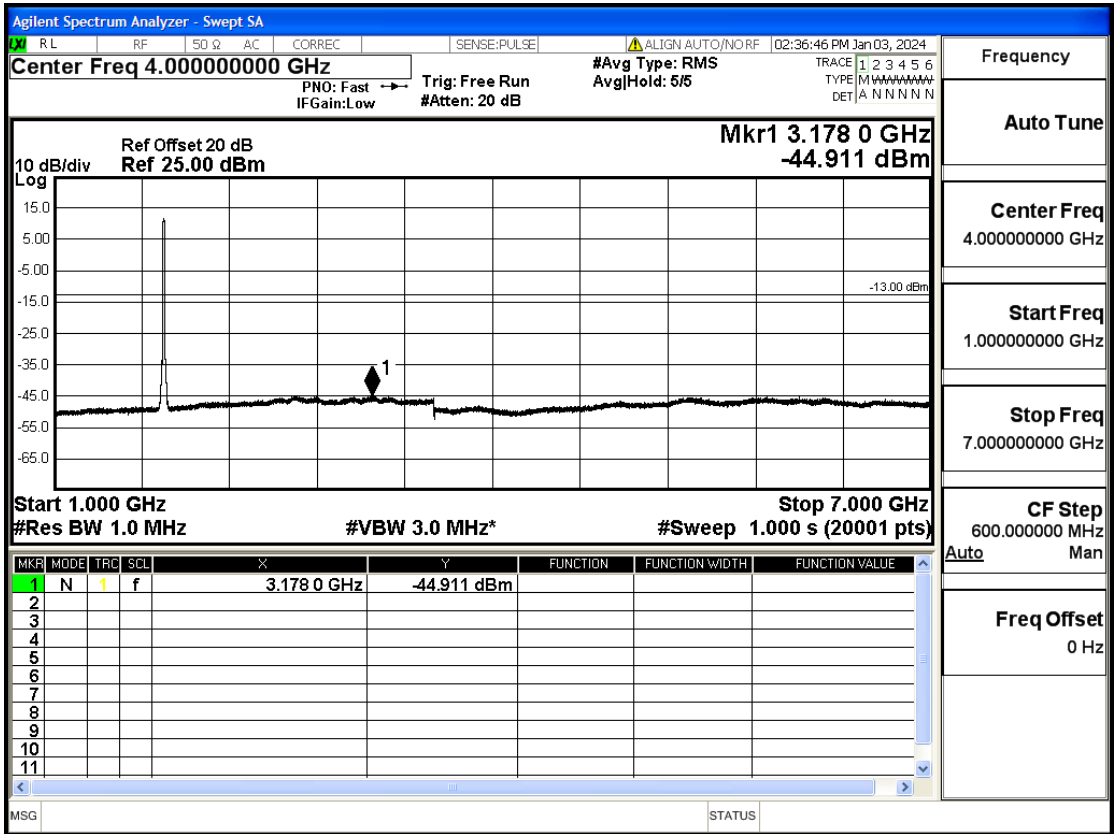
OB4-10-1732.5-Q16-50#LOW@13.6GHz-20GHz@Pass



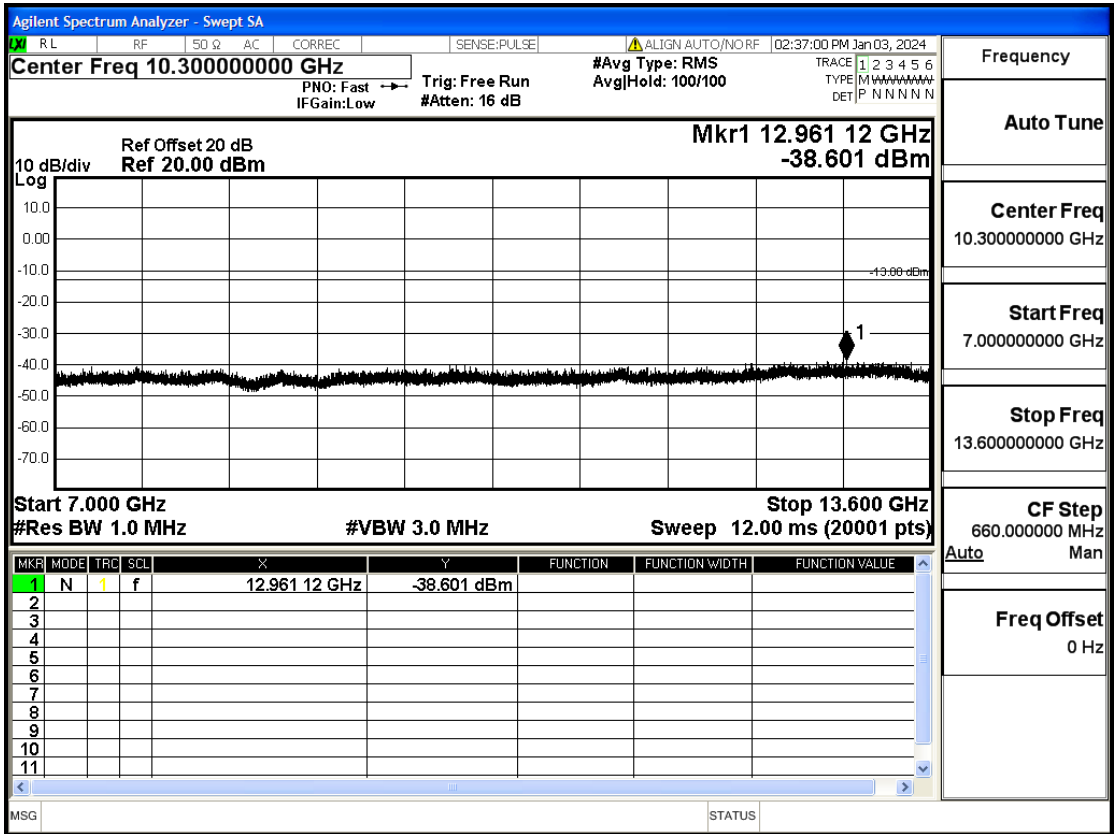
OB4-10-1750-Q16-50#LOW@30mHz-1GHz@Pass



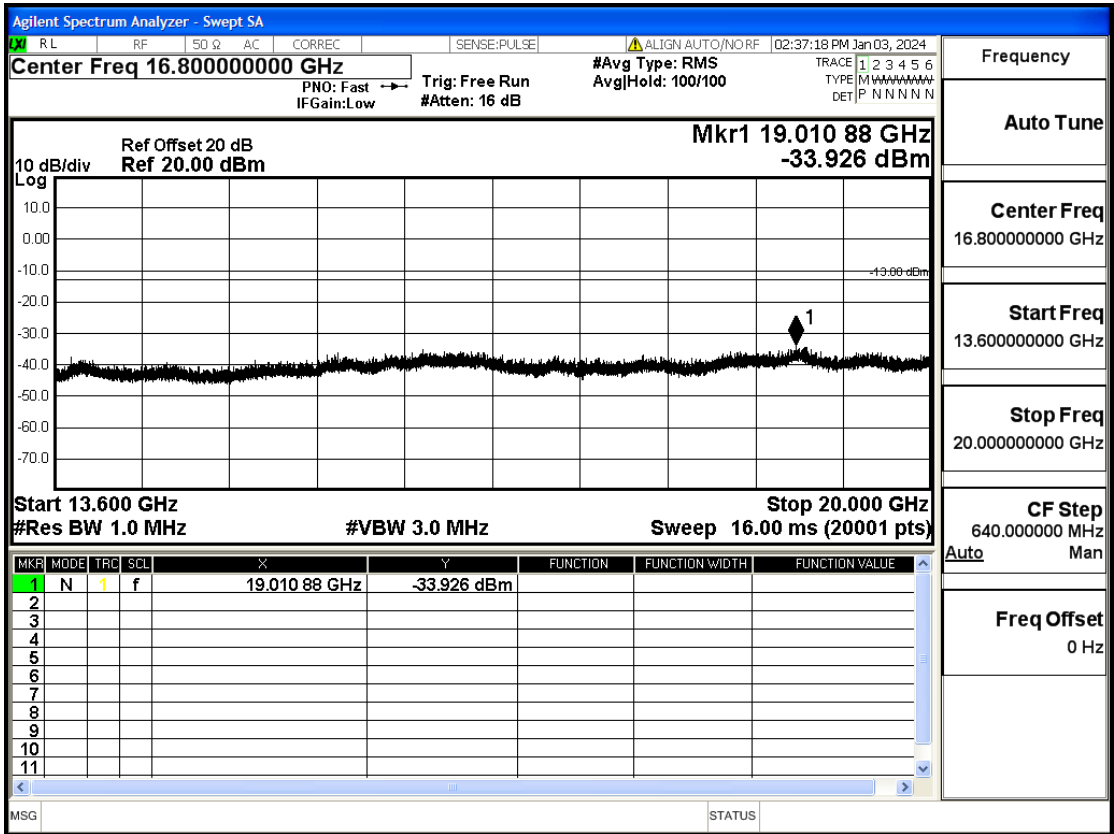
OB4-10-1750-Q16-50#LOW@1GHz-7GHz@Pass



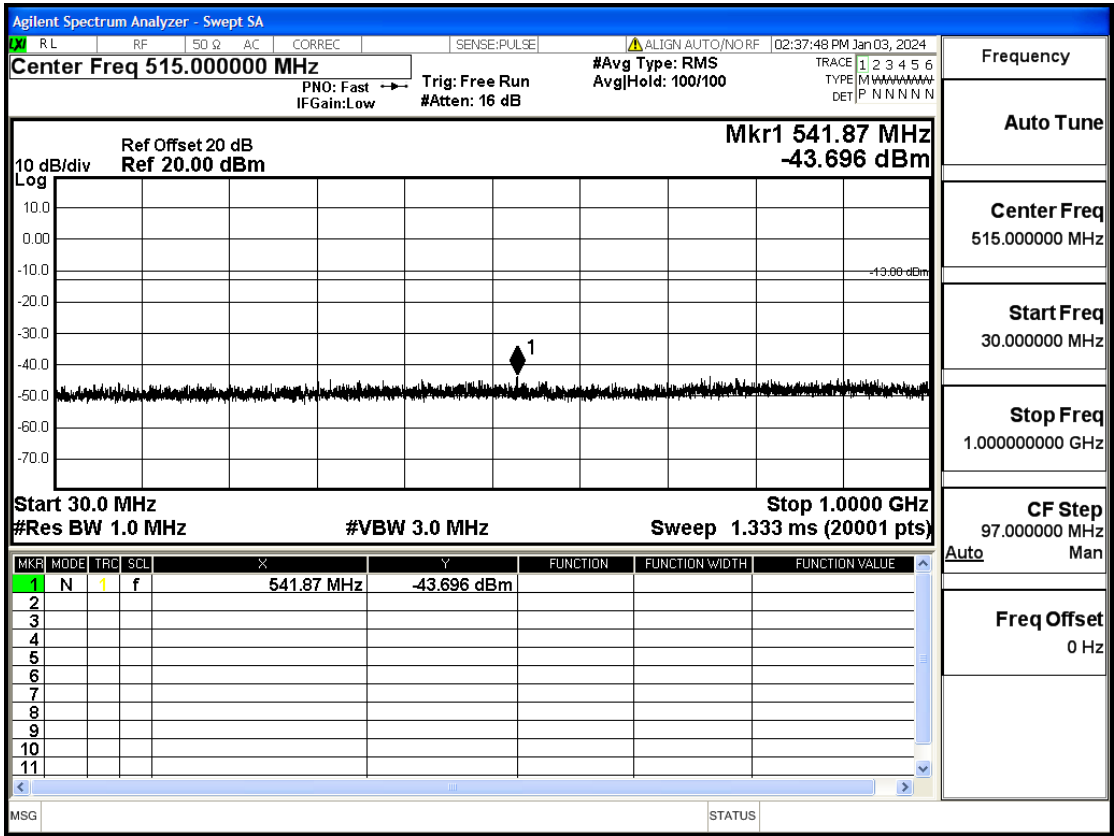
OB4-10-1750-Q16-50#LOW@7GHz-13.6GHz@Pass



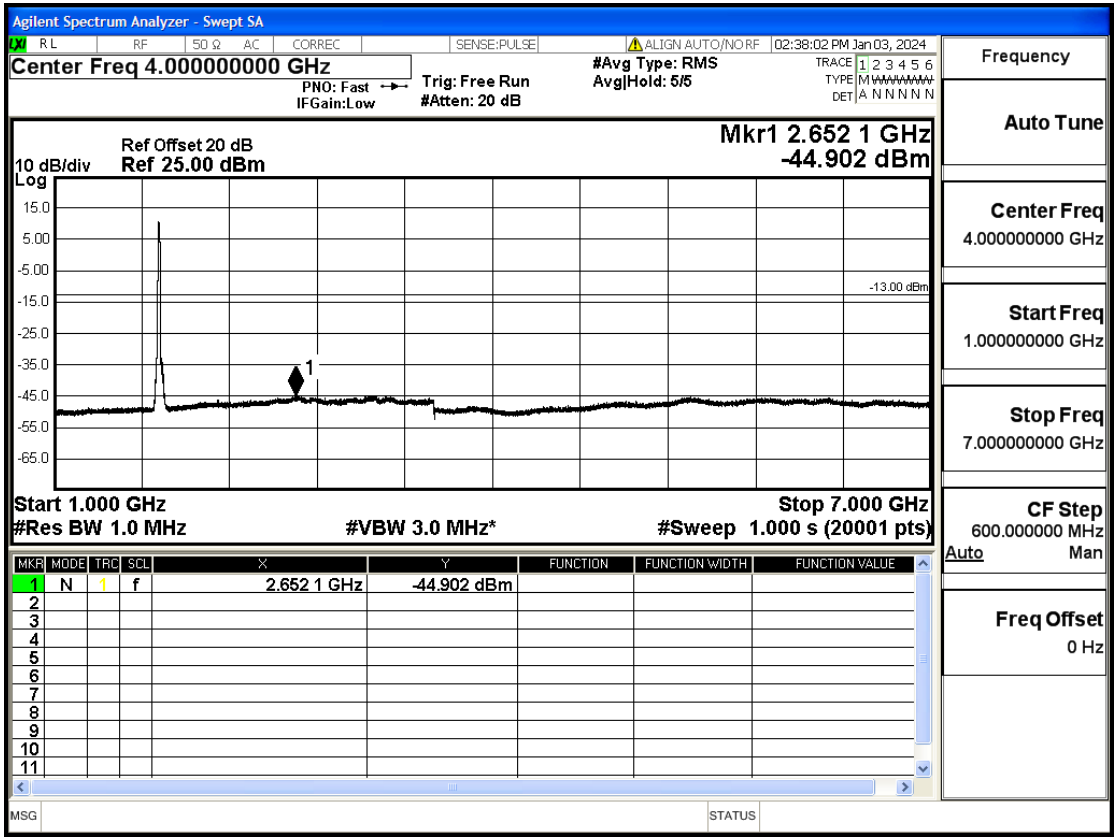
OB4-10-1750-Q16-50#LOW@13.6GHz-20GHz@Pass



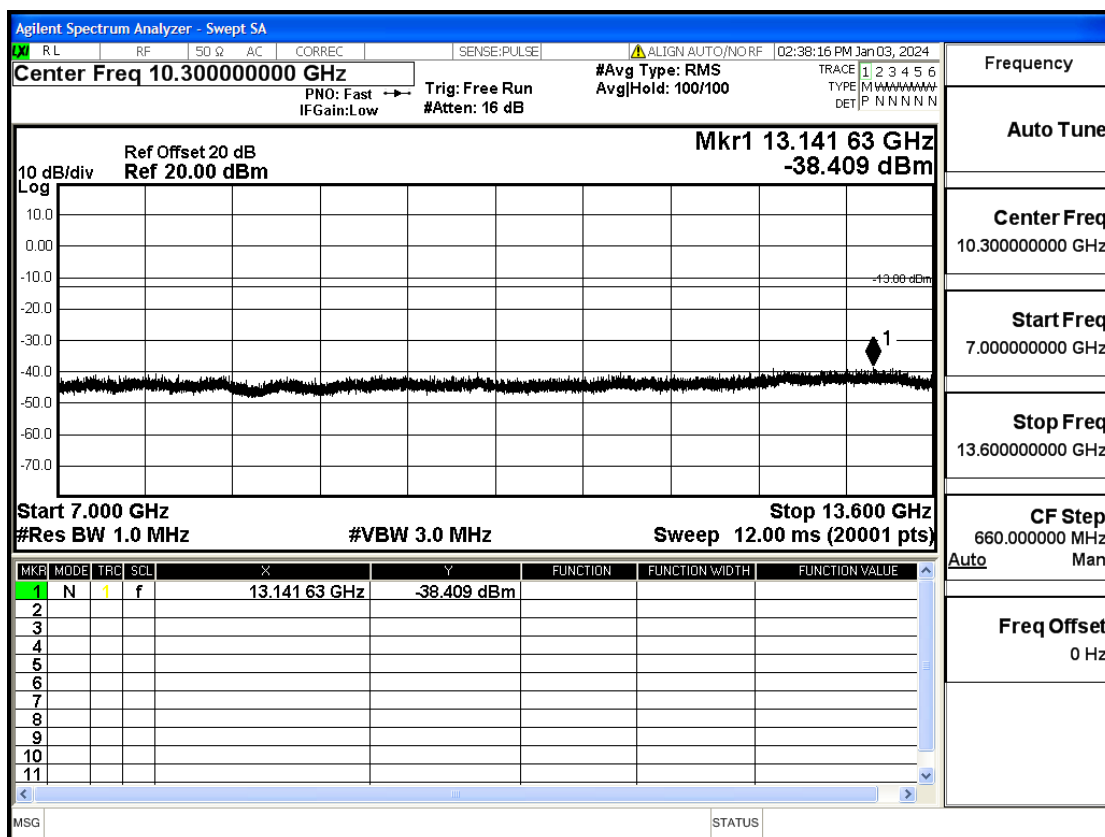
OB4-15-1717.5-Q16-75#LOW@30mHz-1GHz@Pass



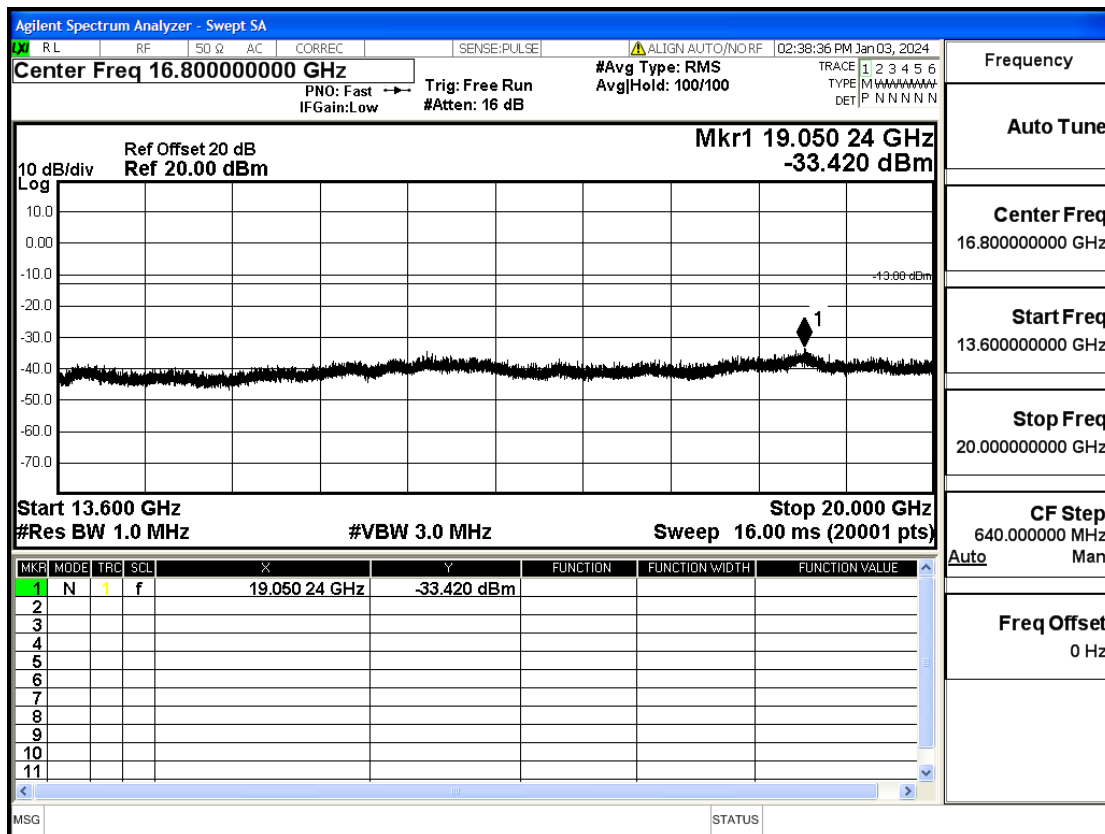
OB4-15-1717.5-Q16-75#LOW@1GHz-7GHz@Pass



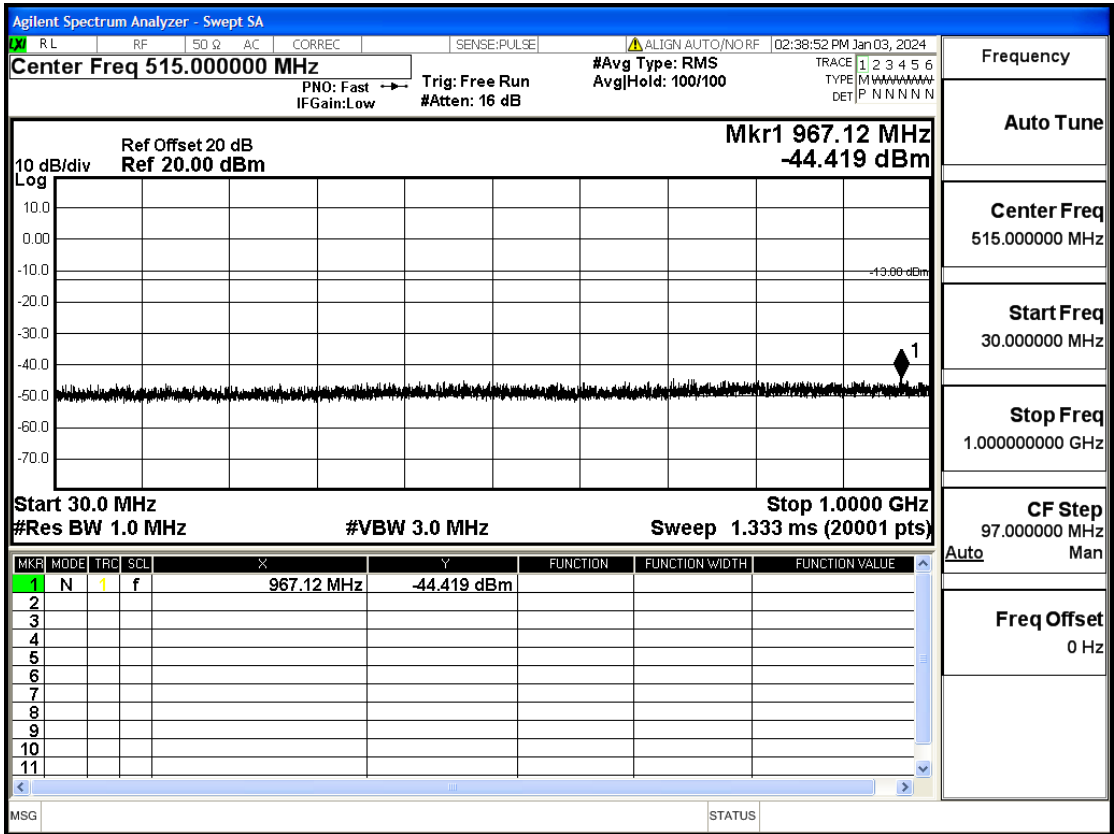
OB4-15-1717.5-Q16-75#LOW@7GHz-13.6GHz@Pass



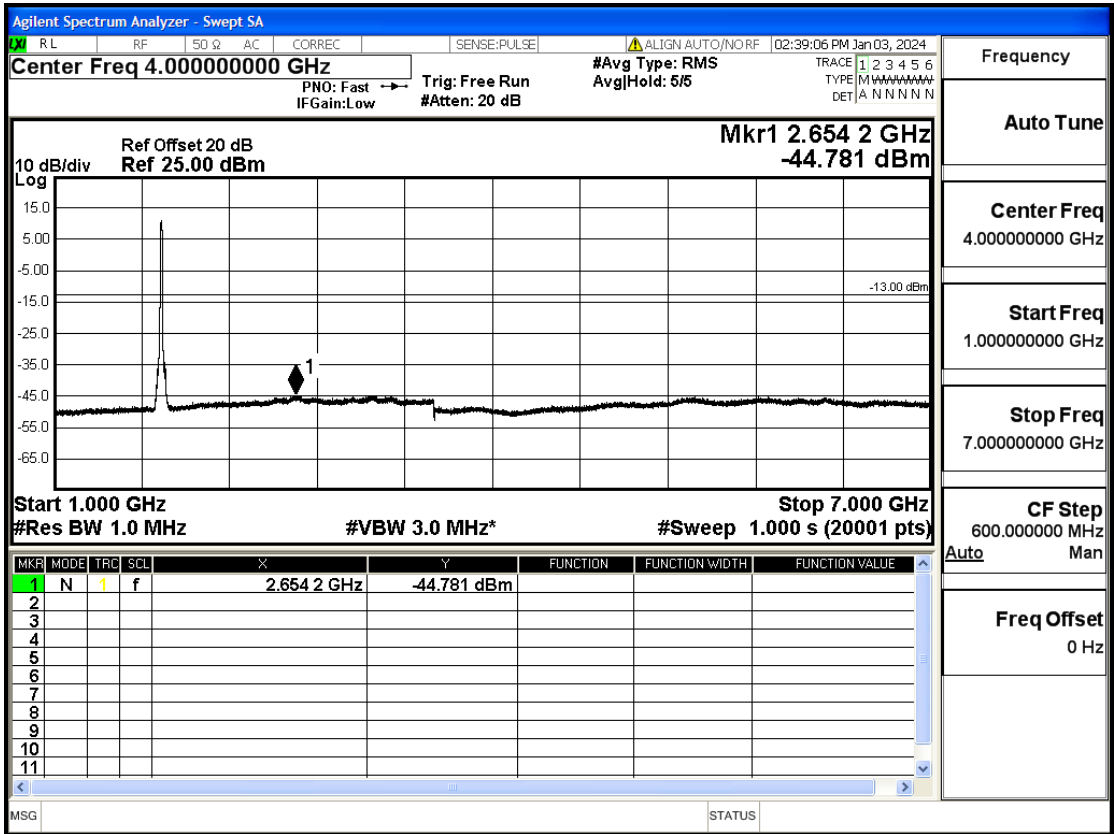
OB4-15-1717.5-Q16-75#LOW@13.6GHz-20GHz@Pass



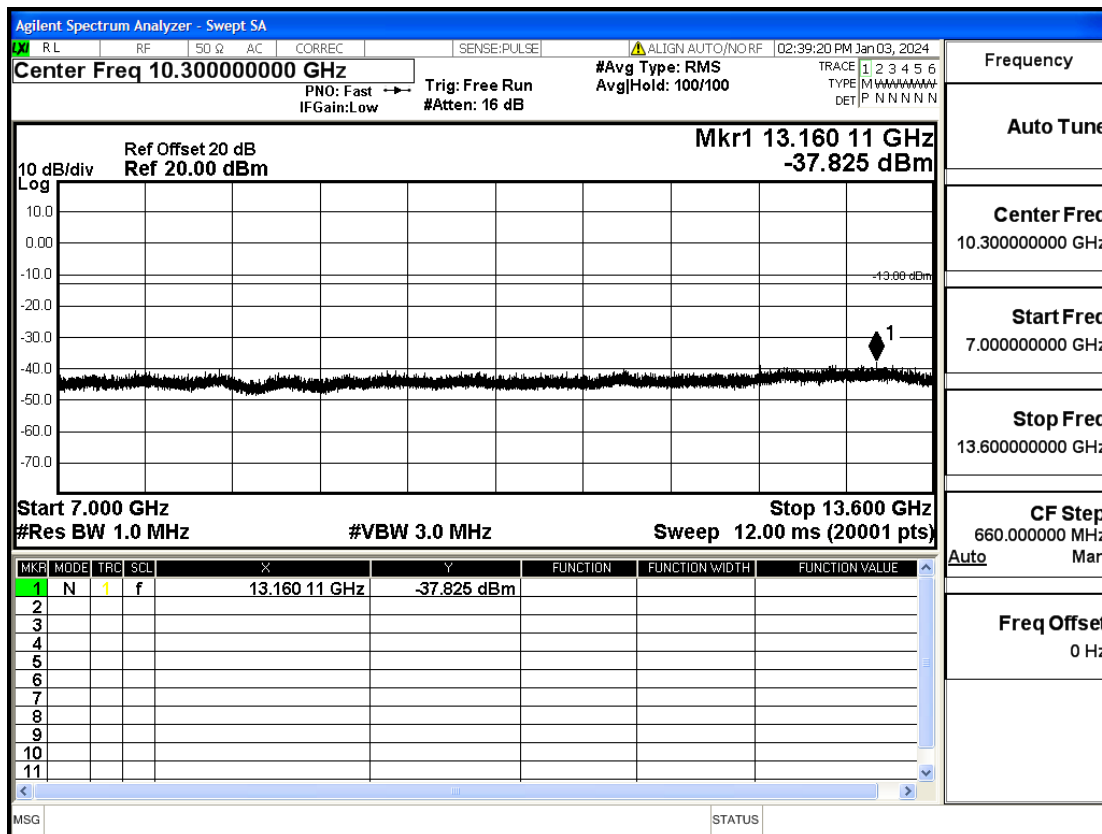
OB4-15-1732.5-Q16-75#LOW@30mHz-1GHz@Pass



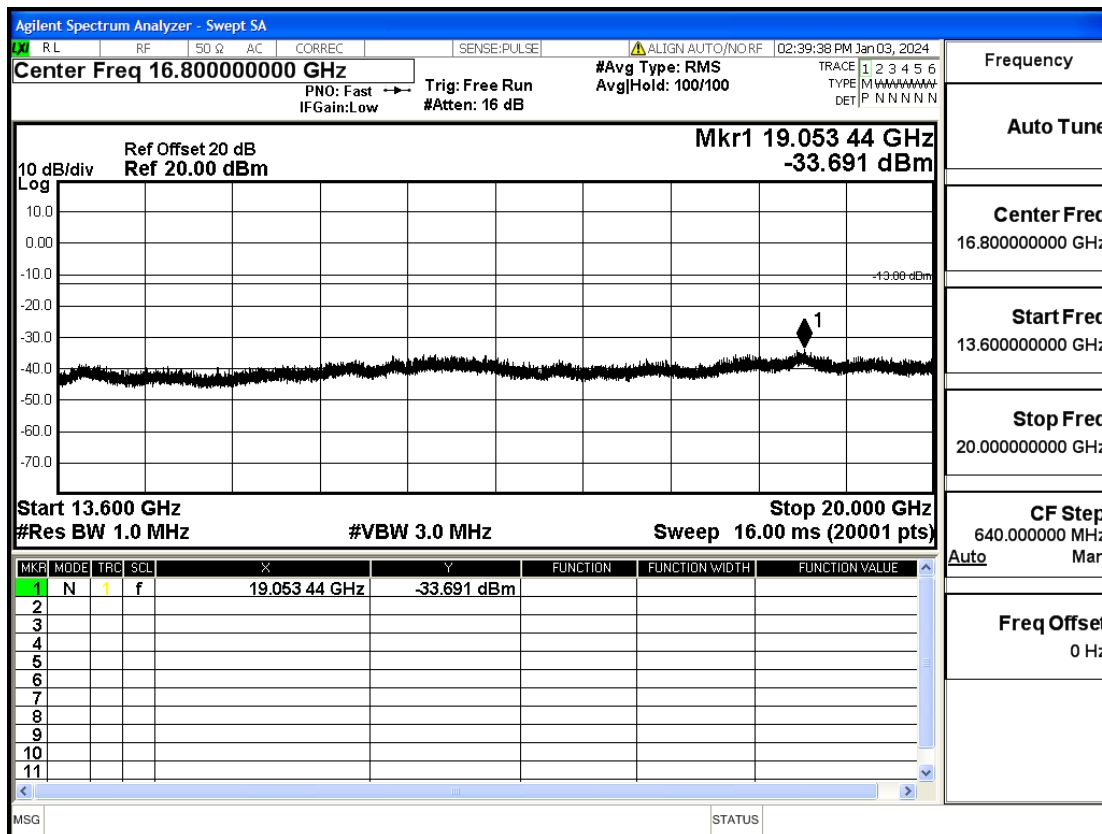
OB4-15-1732.5-Q16-75#LOW@1GHz-7GHz@Pass



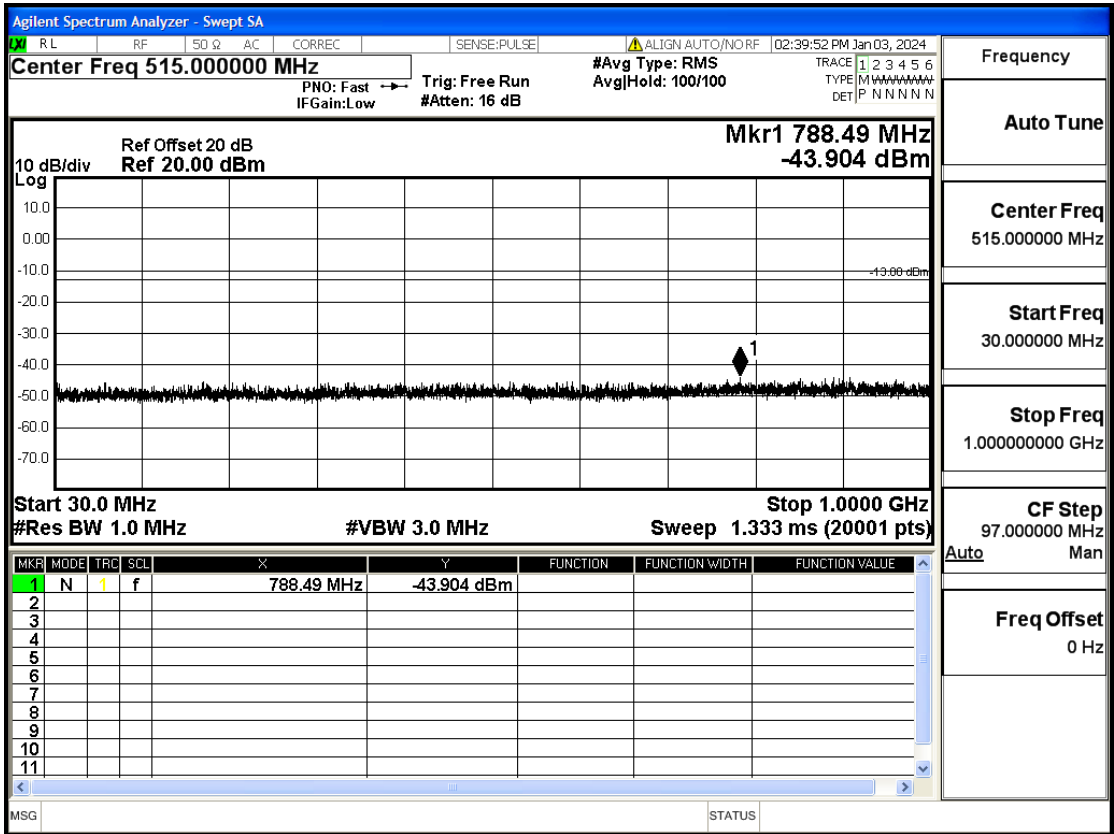
OB4-15-1732.5-Q16-75#LOW@7GHz-13.6GHz@Pass



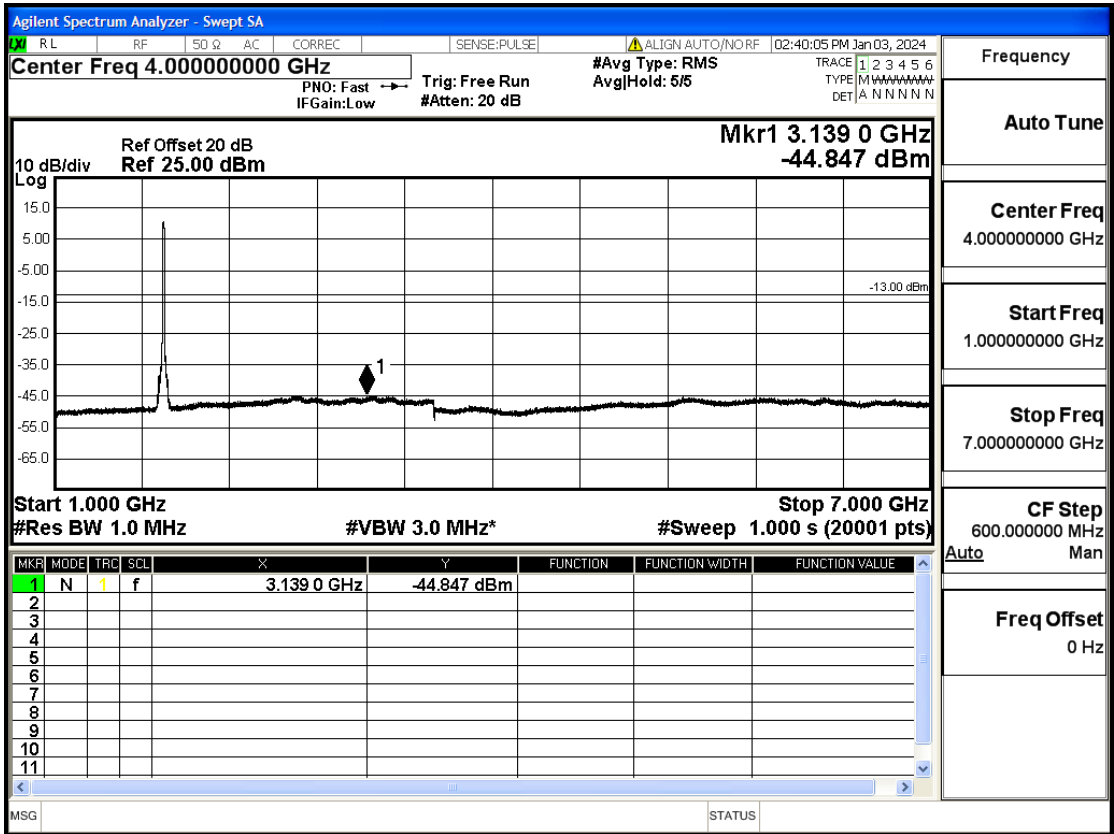
OB4-15-1732.5-Q16-75#LOW@13.6GHz-20GHz@Pass



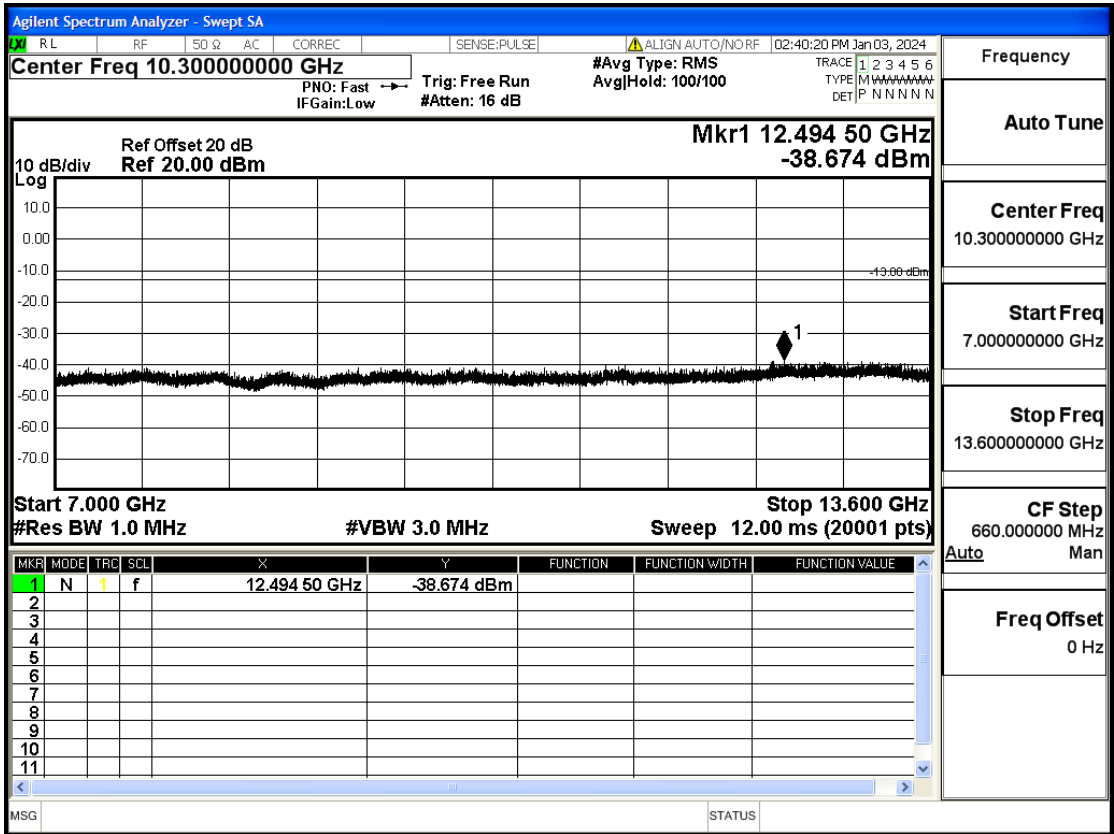
OB4-15-1747.5-Q16-75#LOW@30mHz-1GHz@Pass



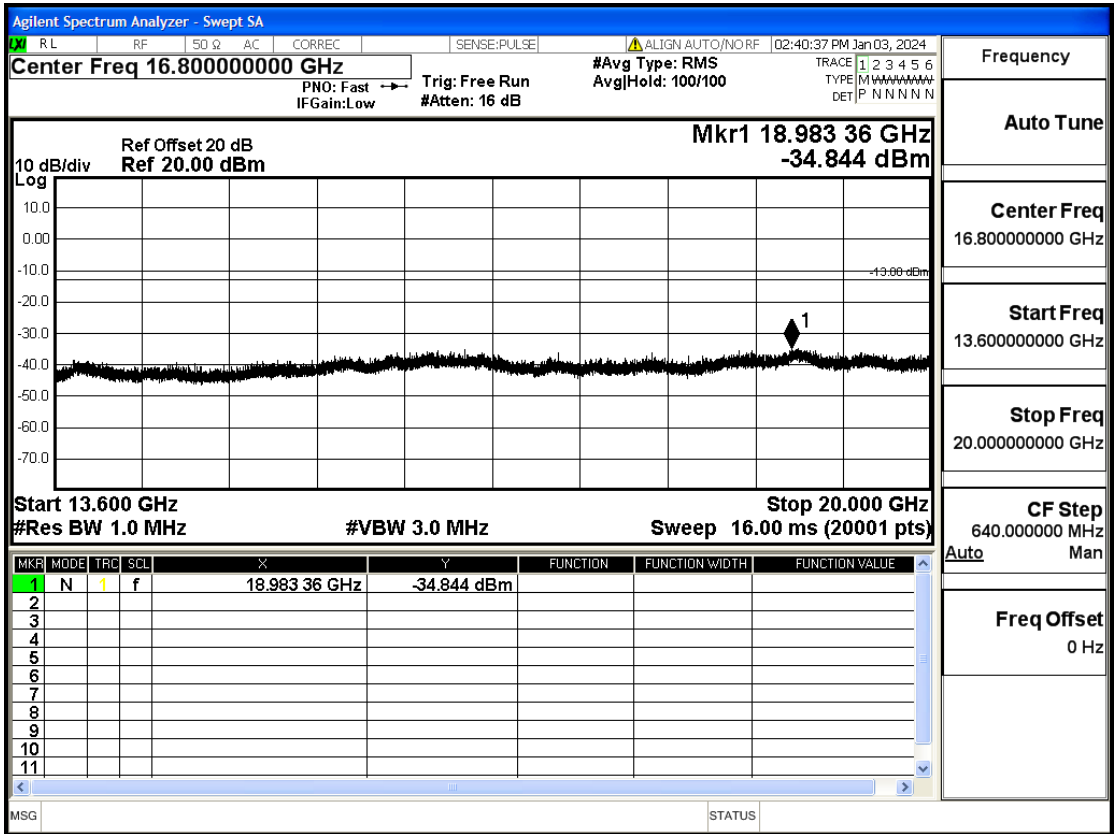
OB4-15-1747.5-Q16-75#LOW@1GHz-7GHz@Pass



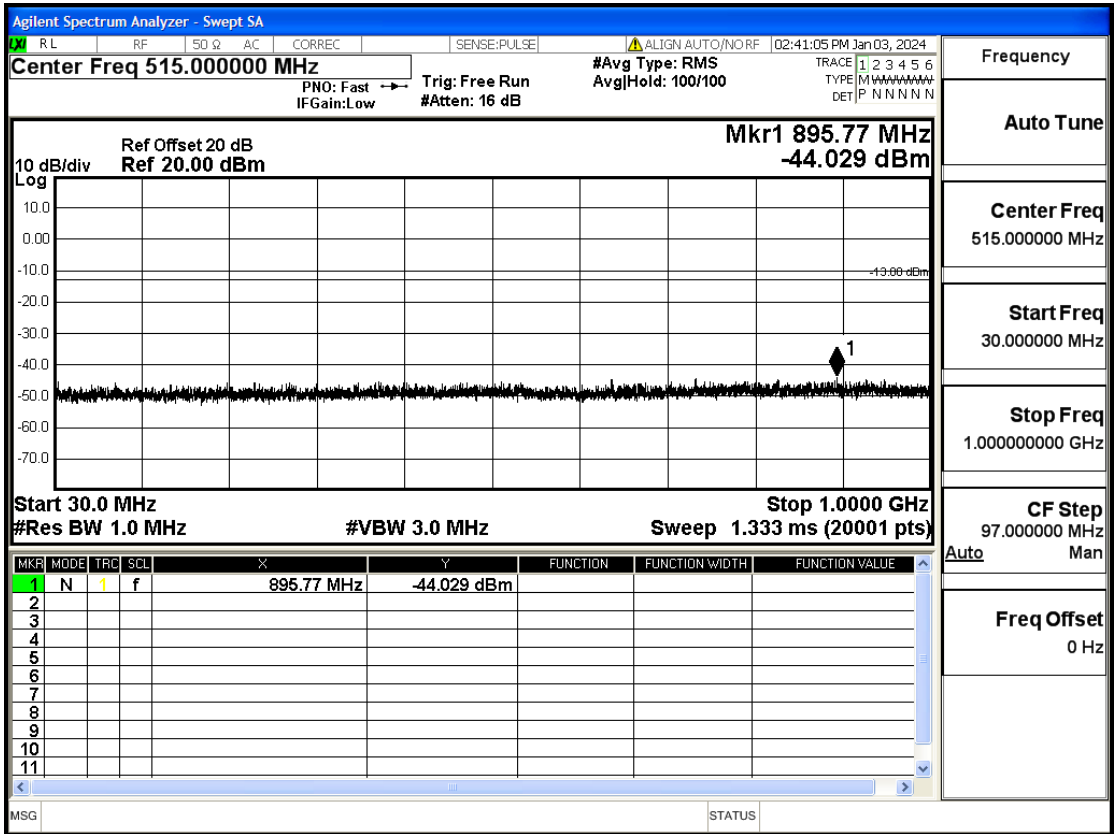
OB4-15-1747.5-Q16-75#LOW@7GHz-13.6GHz@Pass



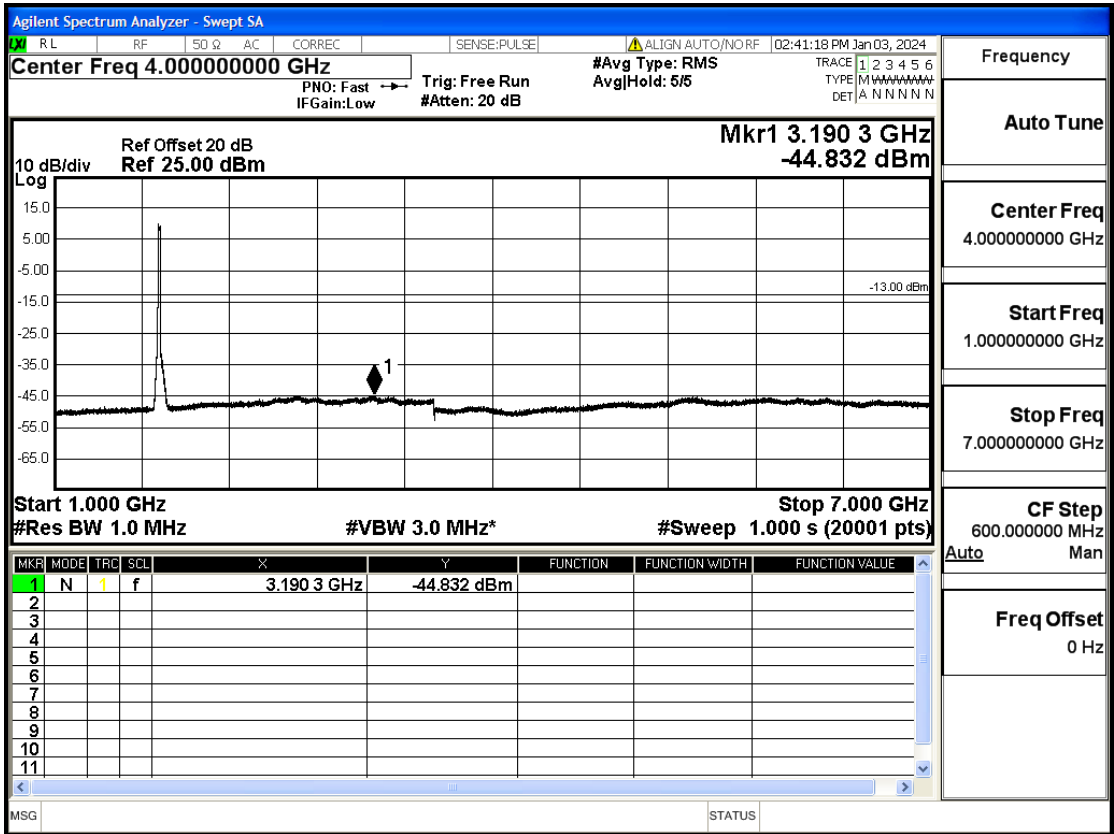
OB4-15-1747.5-Q16-75#LOW@13.6GHz-20GHz@Pass



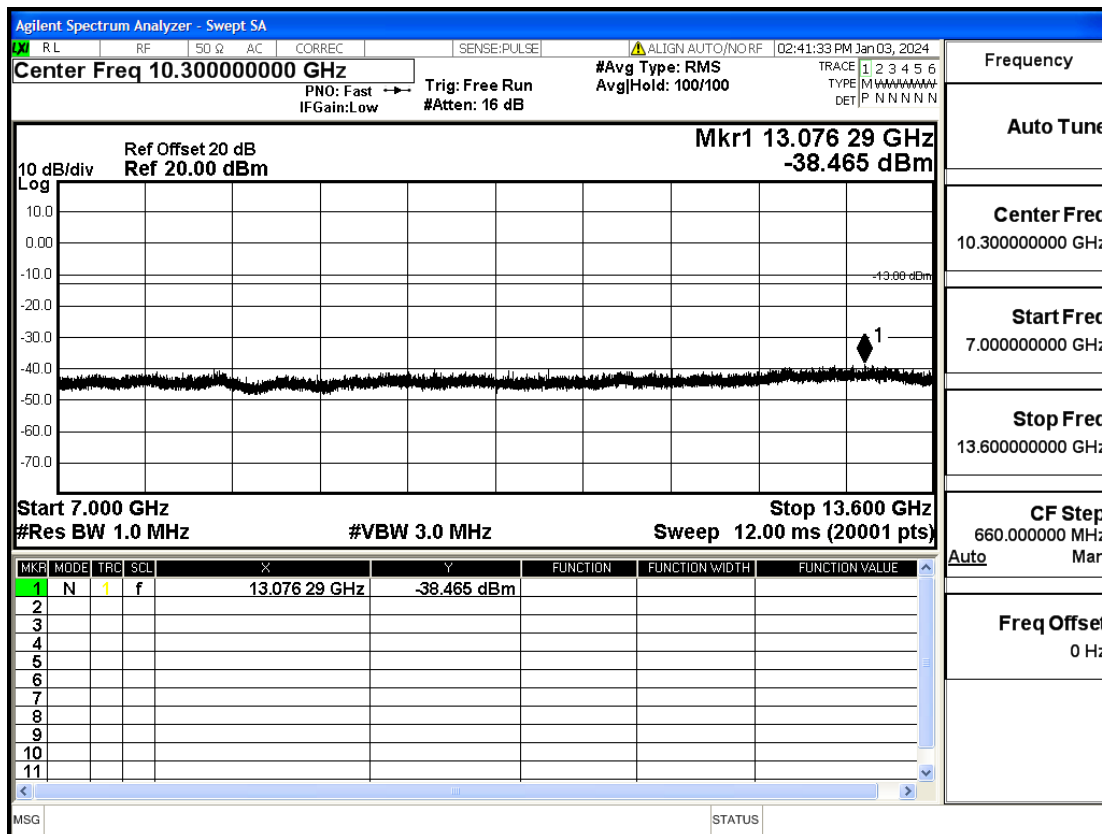
OB4-20-1720-Q16-100#LOW@30mHz-1GHz@Pass



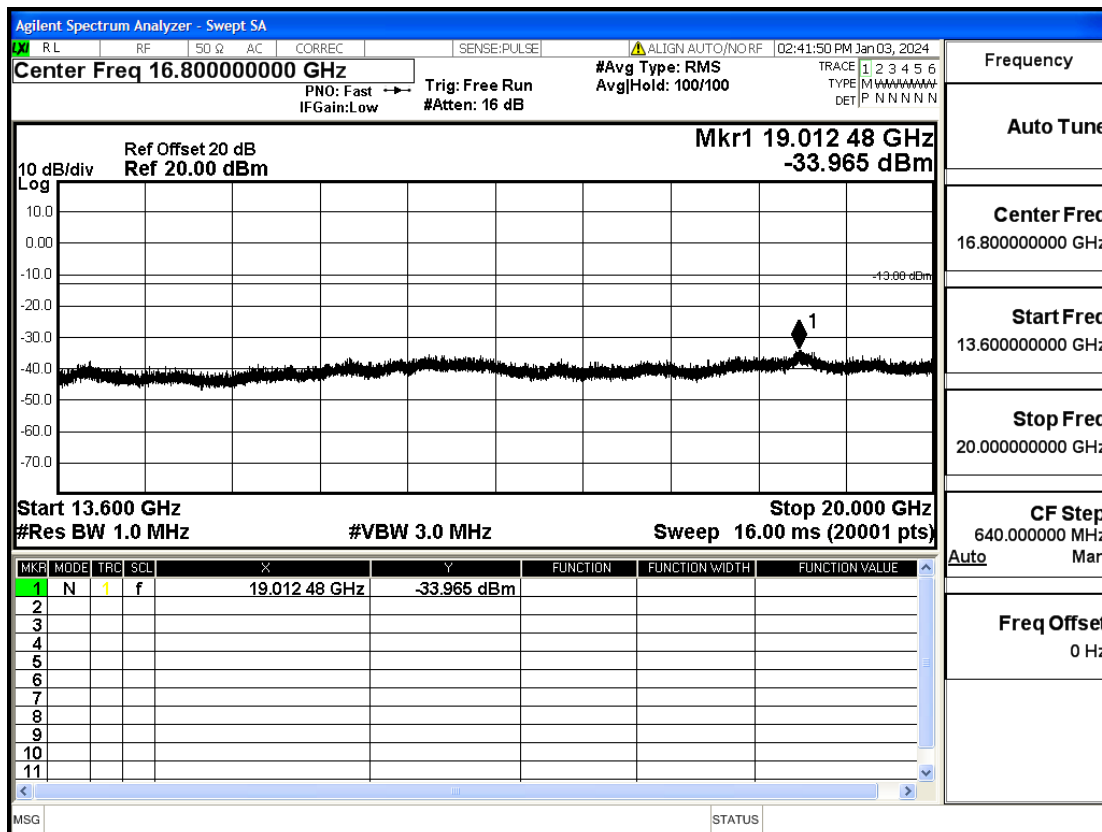
OB4-20-1720-Q16-100#LOW@1GHz-7GHz@Pass



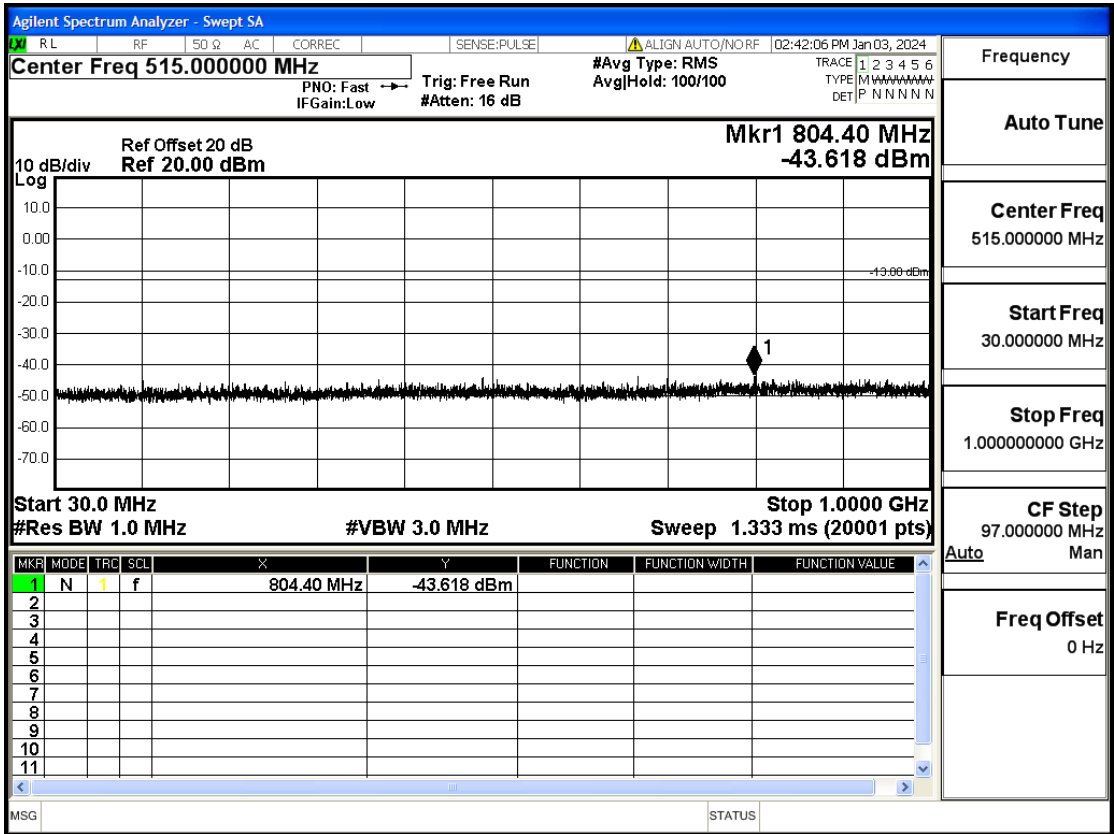
OB4-20-1720-Q16-100#LOW@7GHz-13.6GHz@Pass



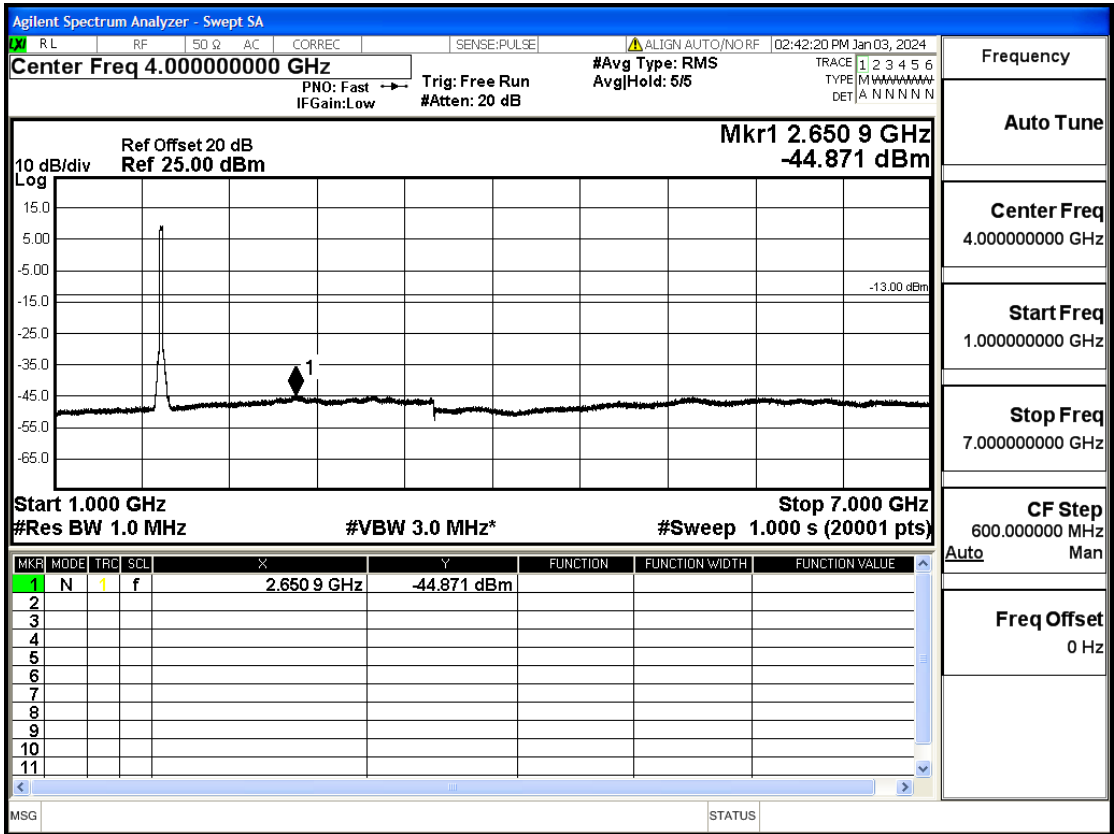
OB4-20-1720-Q16-100#LOW@13.6GHz-20GHz@Pass



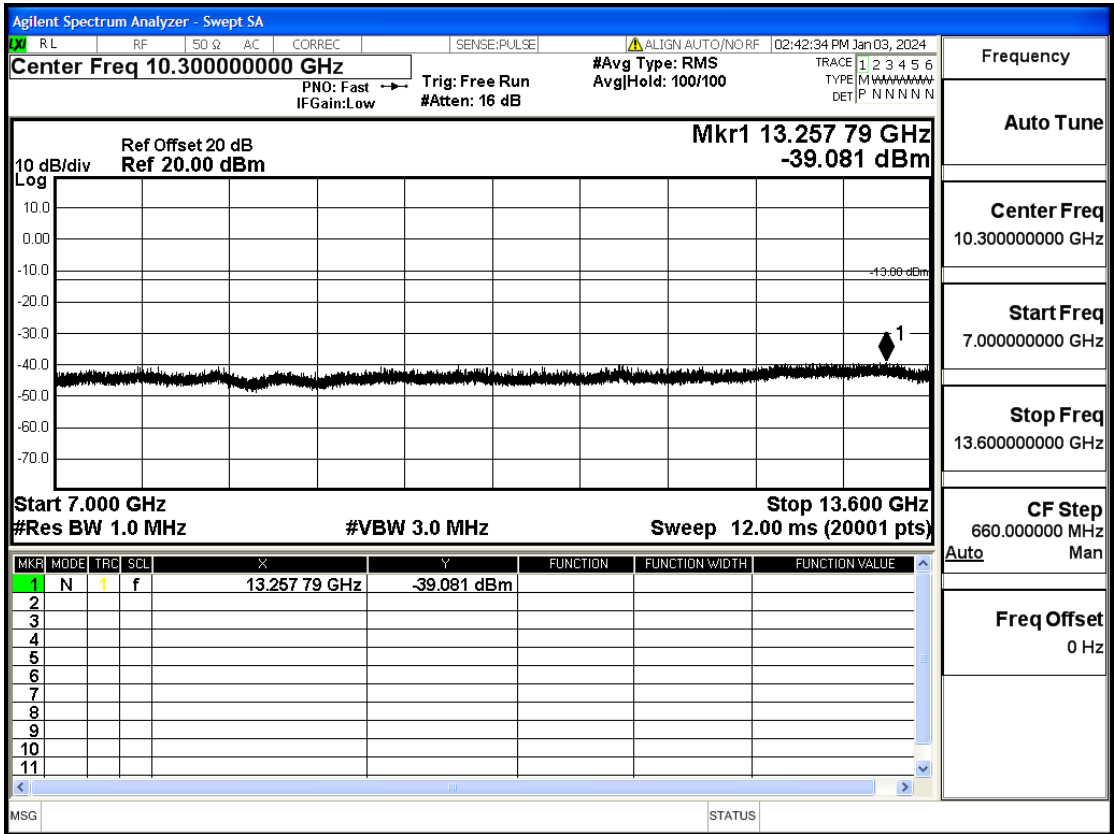
OB4-20-1732.5-Q16-100#LOW@30mHz-1GHz@Pass



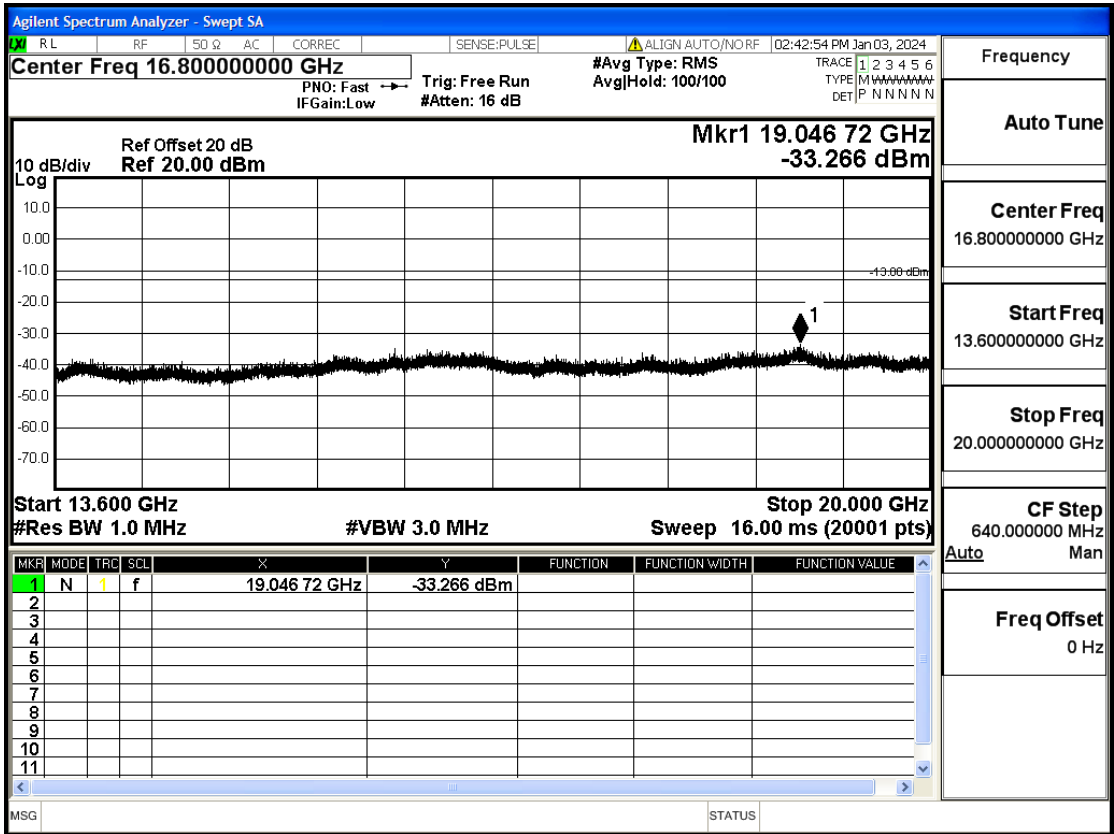
OB4-20-1732.5-Q16-100#LOW@1GHz-7GHz@Pass



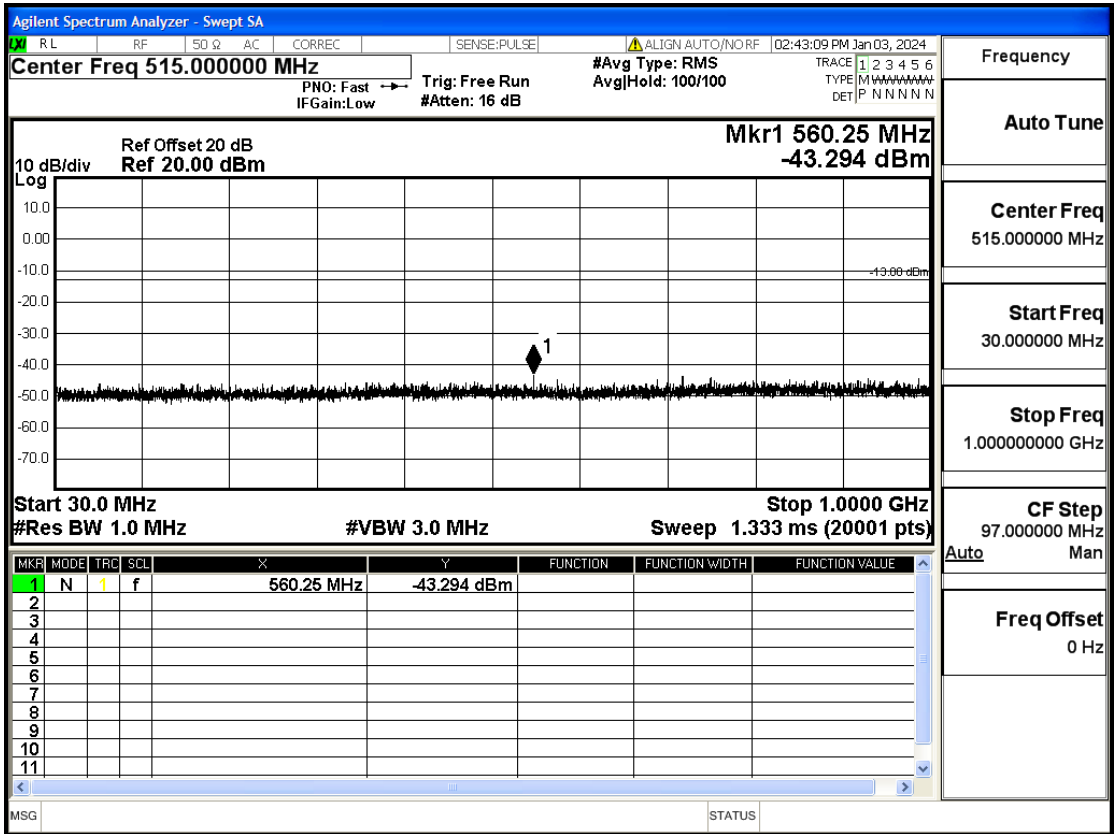
OB4-20-1732.5-Q16-100#LOW@7GHz-13.6GHz@Pass



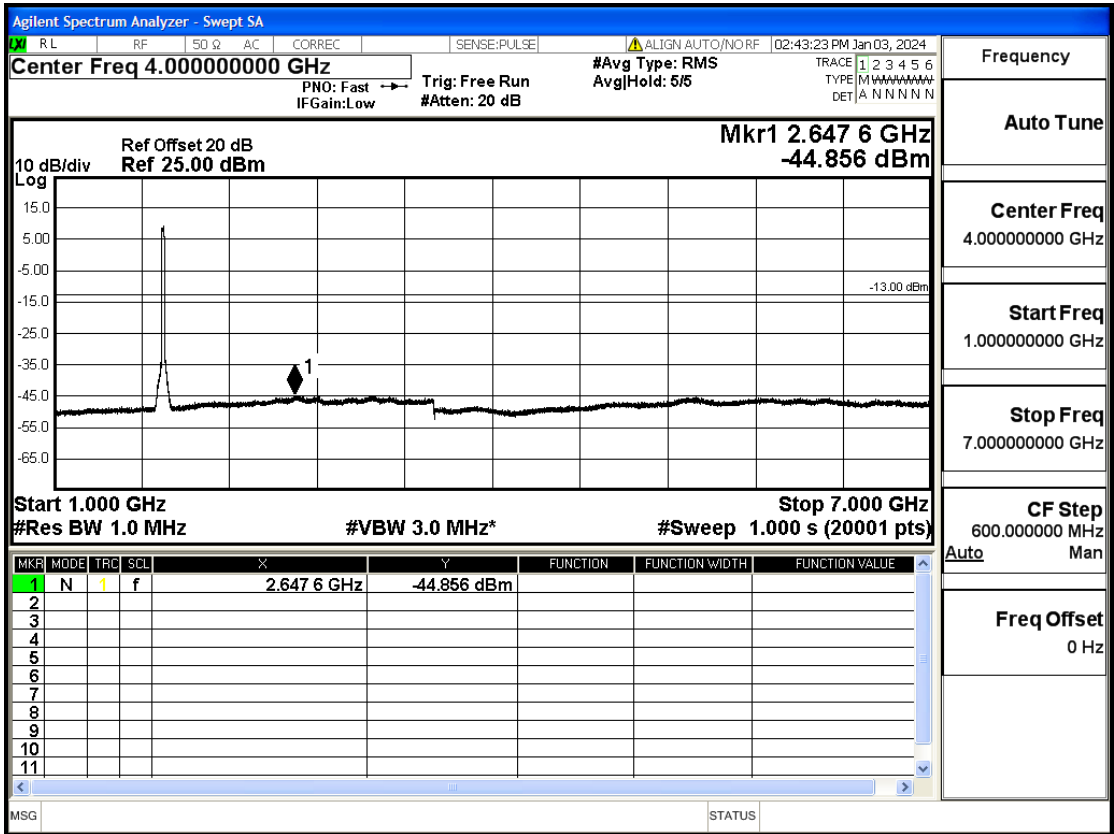
OB4-20-1732.5-Q16-100#LOW@13.6GHz-20GHz@Pass



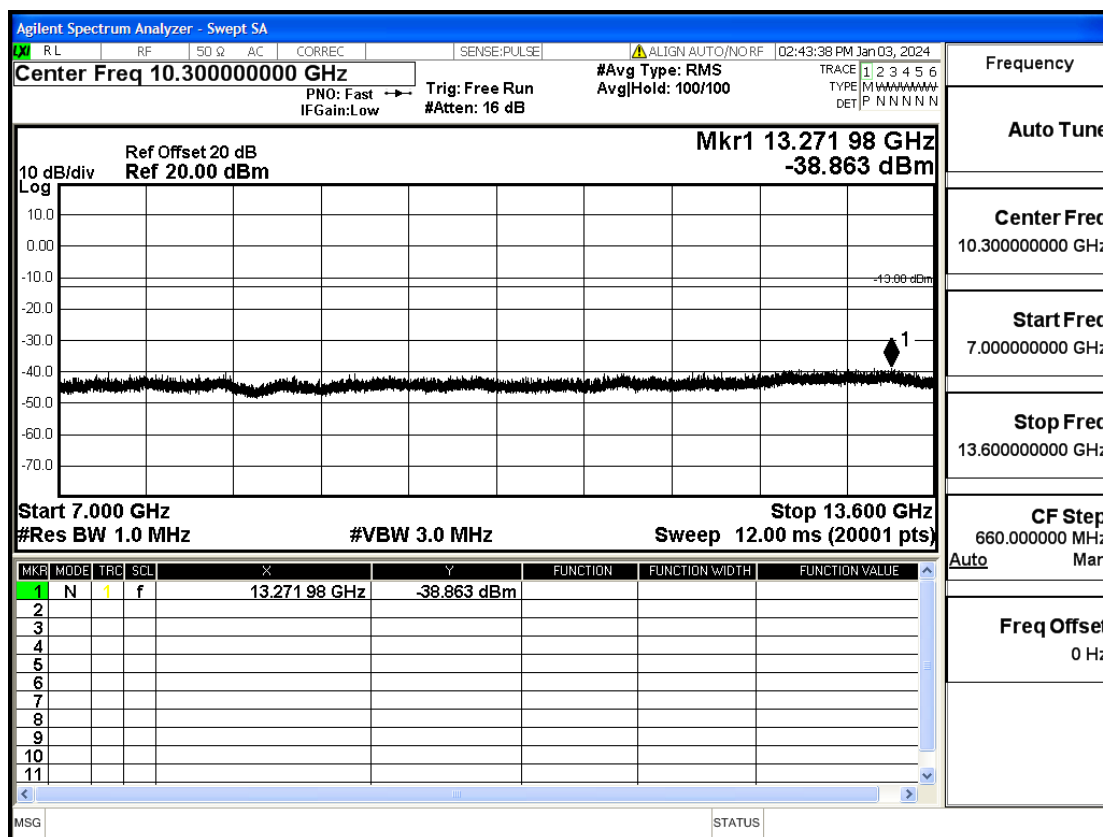
OB4-20-1745-Q16-100#LOW@30mHz-1GHz@Pass



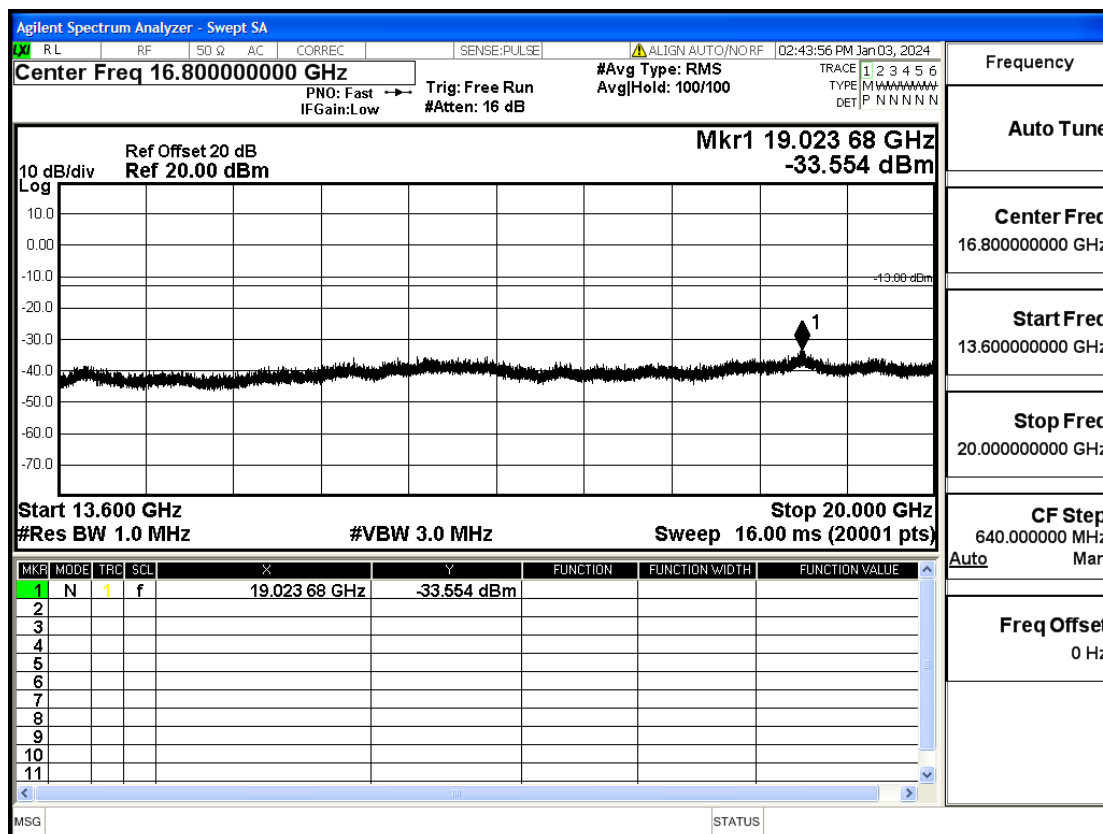
OB4-20-1745-Q16-100#LOW@1GHz-7GHz@Pass



OB4-20-1745-Q16-100#LOW@7GHz-13.6GHz@Pass



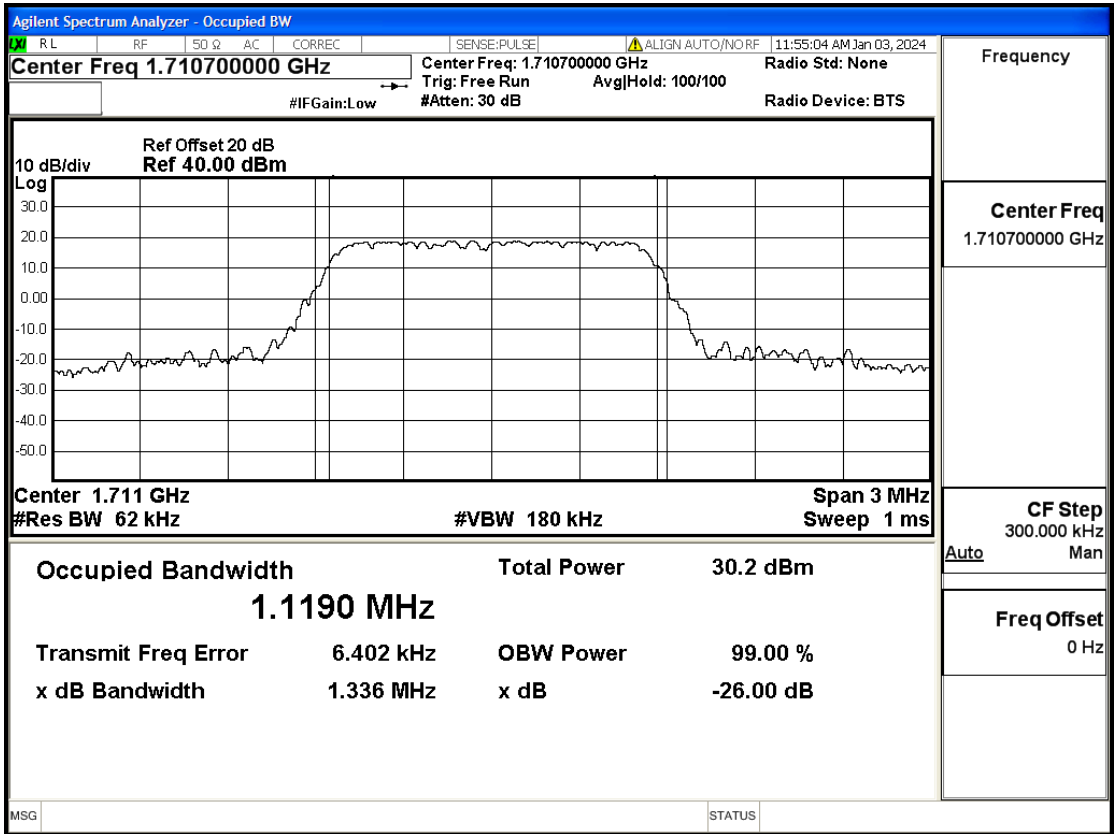
OB4-20-1745-Q16-100#LOW@13.6GHz-20GHz@Pass



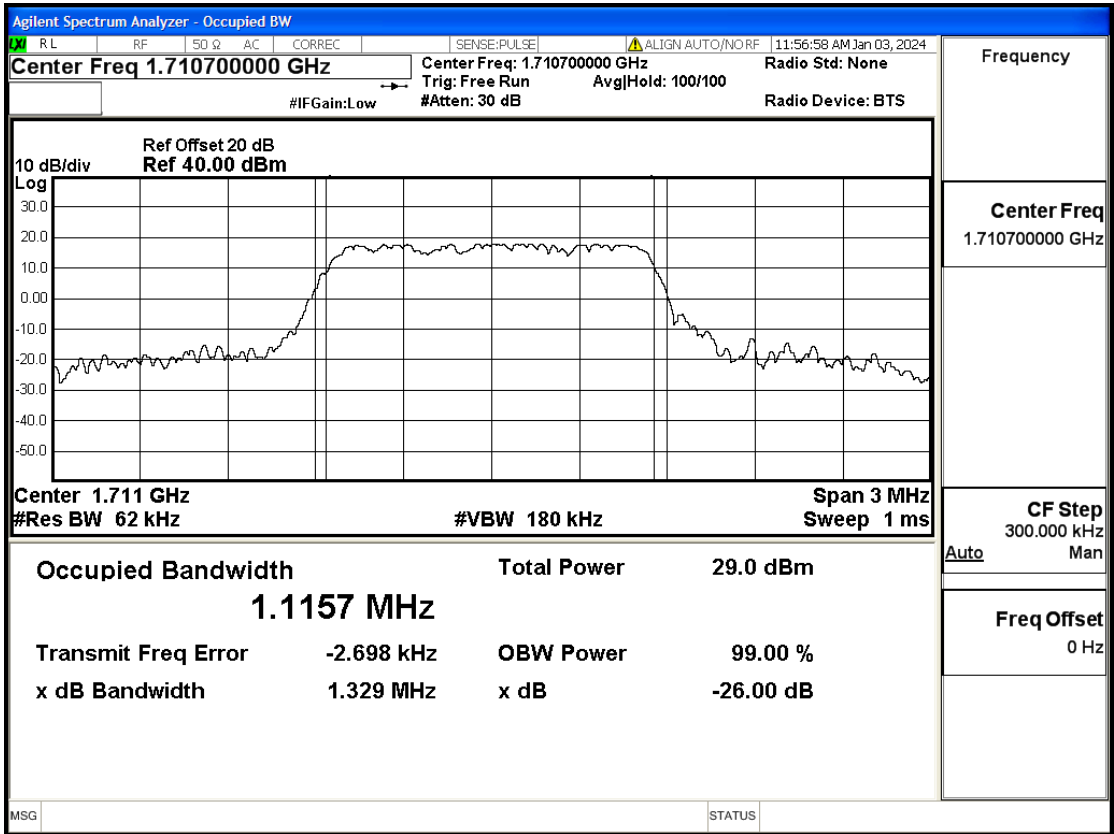
Emission bandwidth and OBW

Band	Bandwidth(MHz)	UL Frequency(MHz)	Modulation	RB Size	RB Offset	Occupied Bandwidth(KHz)	Emission Bandwidth(KHz)	Limit
Band4	1.4	1710.7	QPSK	6	LOW	1119	1336	No limit
Band4	1.4	1710.7	16QAM	6	LOW	1115.7	1329	No limit
Band4	1.4	1732.5	QPSK	6	LOW	1108.5	1338	No limit
Band4	1.4	1732.5	16QAM	6	LOW	1113.1	1325	No limit
Band4	1.4	1754.3	QPSK	6	LOW	1118	1326	No limit
Band4	1.4	1754.3	16QAM	6	LOW	1113.3	1330	No limit
Band4	3	1711.5	QPSK	15	LOW	2744.9	2982	No limit
Band4	3	1711.5	16QAM	15	LOW	2732.9	3009	No limit
Band4	3	1732.5	QPSK	15	LOW	2748.1	3002	No limit
Band4	3	1732.5	16QAM	15	LOW	2738.3	3128	No limit
Band4	3	1753.5	QPSK	15	LOW	2744.6	3040	No limit
Band4	3	1753.5	16QAM	15	LOW	2742	2999	No limit
Band4	5	1712.5	QPSK	25	LOW	4600.4	5135	No limit
Band4	5	1712.5	16QAM	25	LOW	4583.9	5287	No limit
Band4	5	1732.5	QPSK	25	LOW	4599.3	5355	No limit
Band4	5	1732.5	16QAM	25	LOW	4596.7	5355	No limit
Band4	5	1752.5	QPSK	25	LOW	4594.8	5215	No limit
Band4	5	1752.5	16QAM	25	LOW	4601.4	5401	No limit
Band4	10	1715	QPSK	50	LOW	9115.4	10420	No limit
Band4	10	1715	16QAM	50	LOW	9110.4	10310	No limit
Band4	10	1732.5	QPSK	50	LOW	9119.9	10130	No limit
Band4	10	1732.5	16QAM	50	LOW	9144	10170	No limit
Band4	10	1750	QPSK	50	LOW	9120.1	10410	No limit
Band4	10	1750	16QAM	50	LOW	9097.6	10160	No limit
Band4	15	1717.5	QPSK	75	LOW	13736	15510	No limit
Band4	15	1717.5	16QAM	75	LOW	13765	15270	No limit
Band4	15	1732.5	QPSK	75	LOW	13735	15390	No limit
Band4	15	1732.5	16QAM	75	LOW	13701	15450	No limit
Band4	15	1747.5	QPSK	75	LOW	13649	15370	No limit
Band4	15	1747.5	16QAM	75	LOW	13678	15100	No limit
Band4	20	1720	QPSK	100	LOW	18255	19880	No limit
Band4	20	1720	16QAM	100	LOW	18283	20100	No limit
Band4	20	1732.5	QPSK	100	LOW	18256	20180	No limit
Band4	20	1732.5	16QAM	100	LOW	18276	20230	No limit
Band4	20	1745	QPSK	100	LOW	18238	20080	No limit
Band4	20	1745	16QAM	100	LOW	18258	20060	No limit

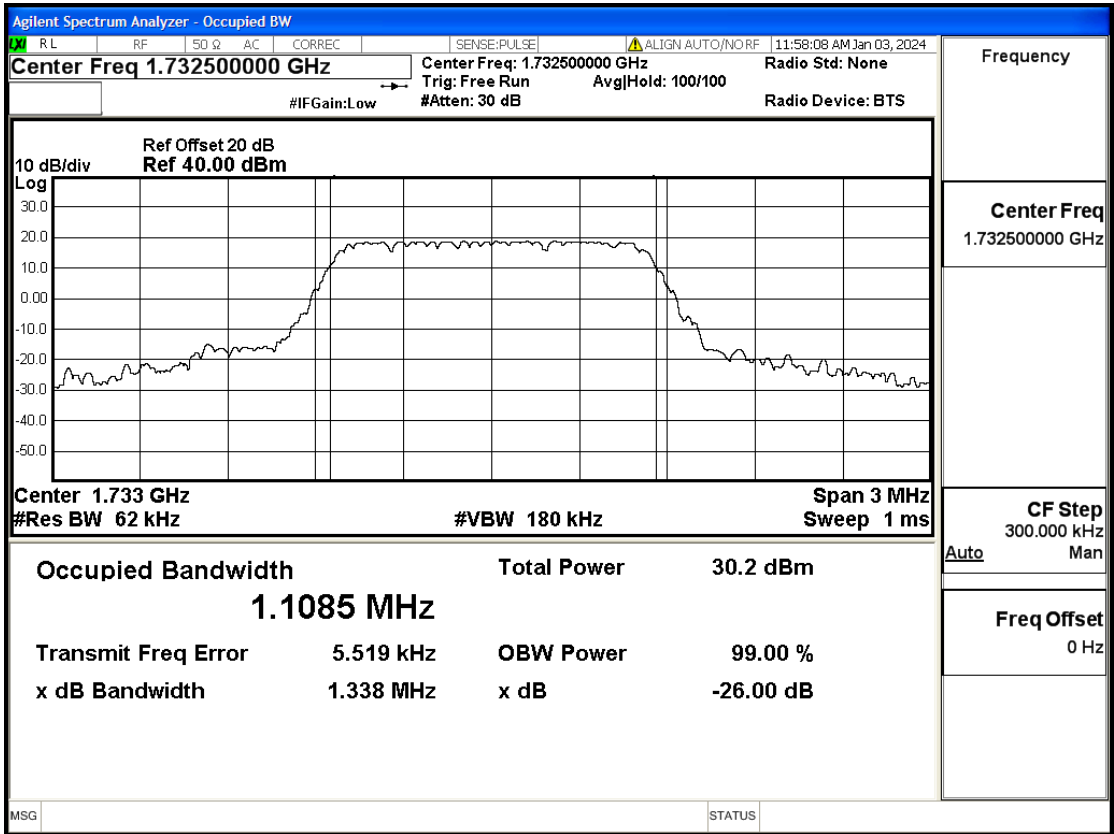
Band4-1.4-1710.7-QPSK-6#LOW@26dB and 99PCT Bandwidth



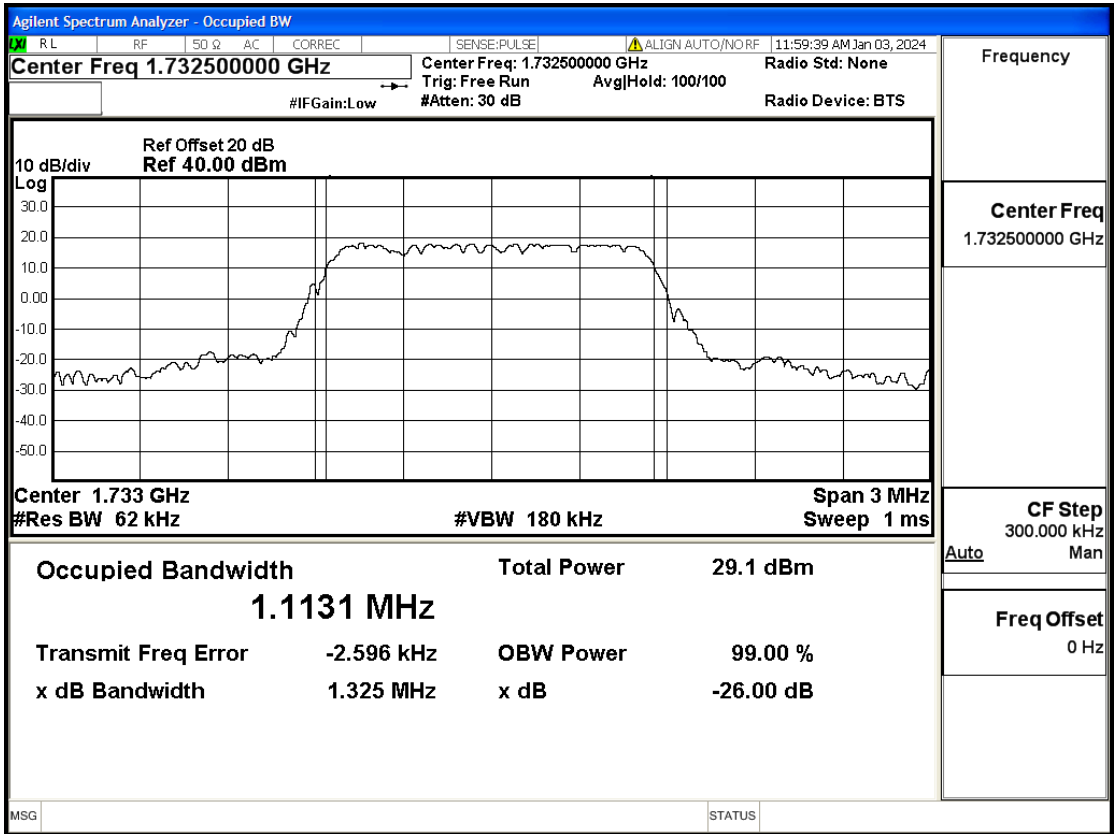
Band4-1.4-1710.7-16QAM-6#LOW@26dB and 99PCT Bandwidth



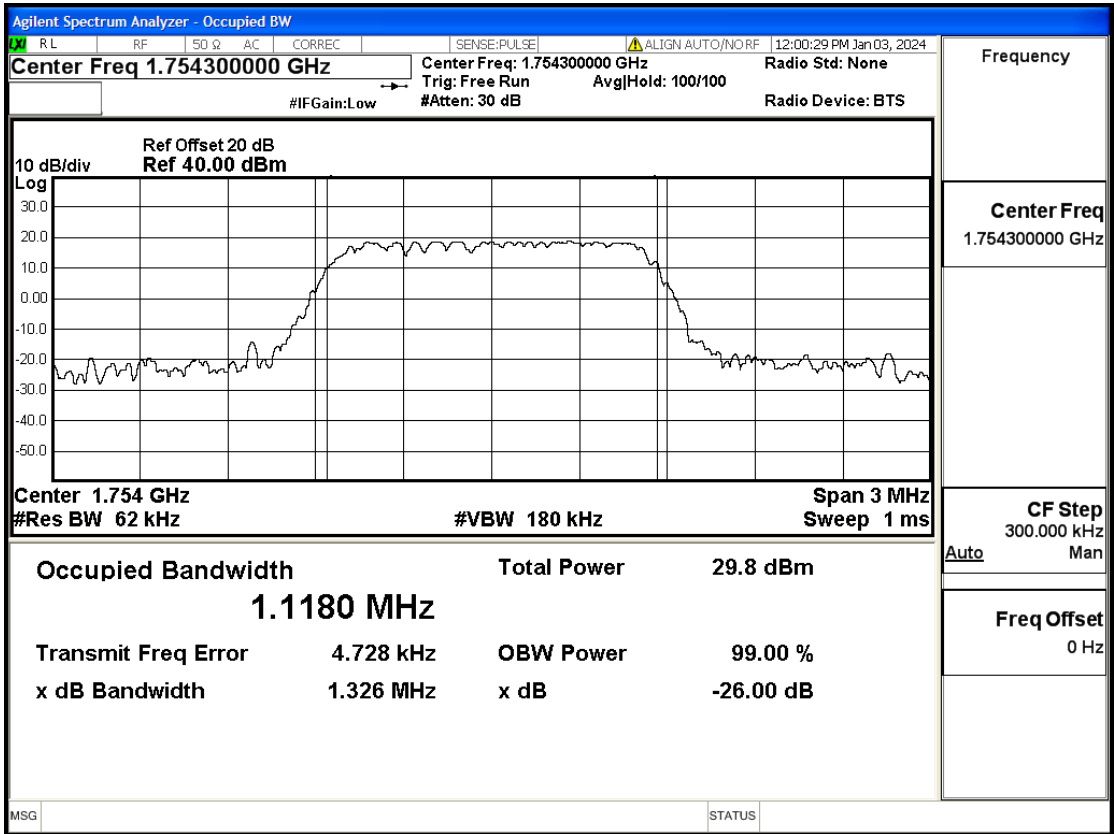
Band4-1.4-1732.5-QPSK-6#LOW@26dB and 99PCT Bandwidth



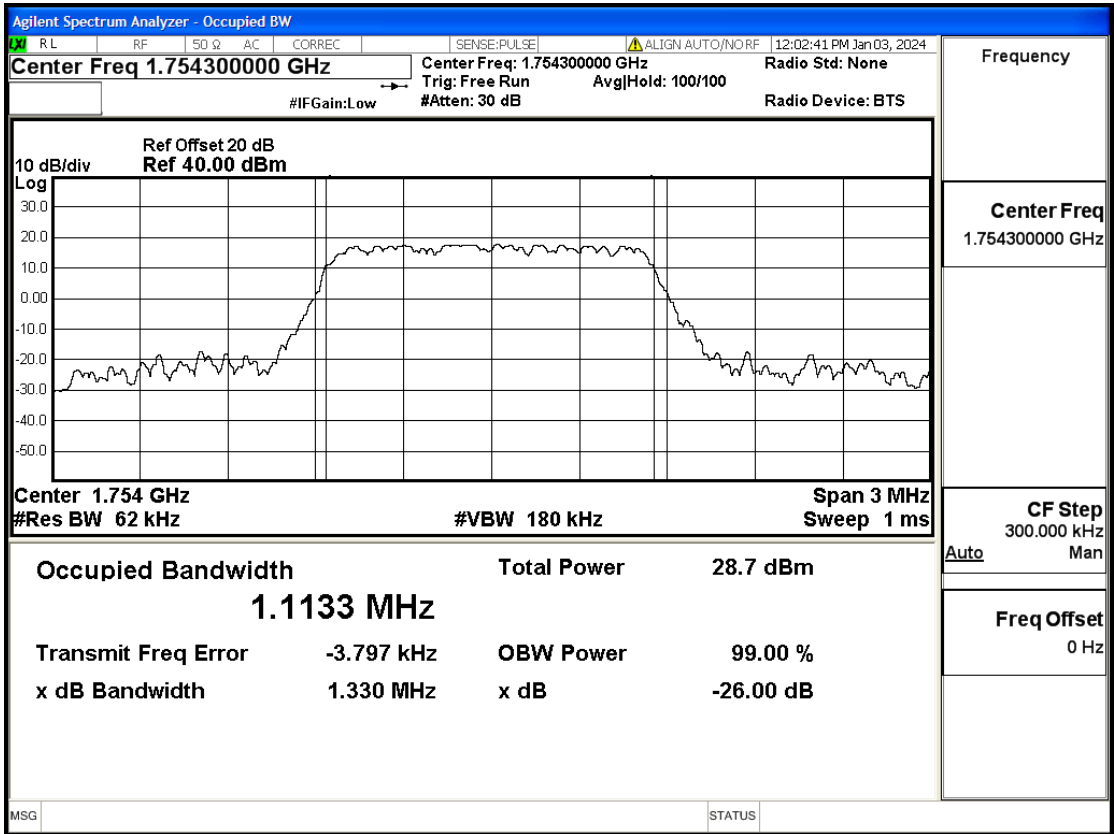
Band4-1.4-1732.5-16QAM-6#LOW@26dB and 99PCT Bandwidth



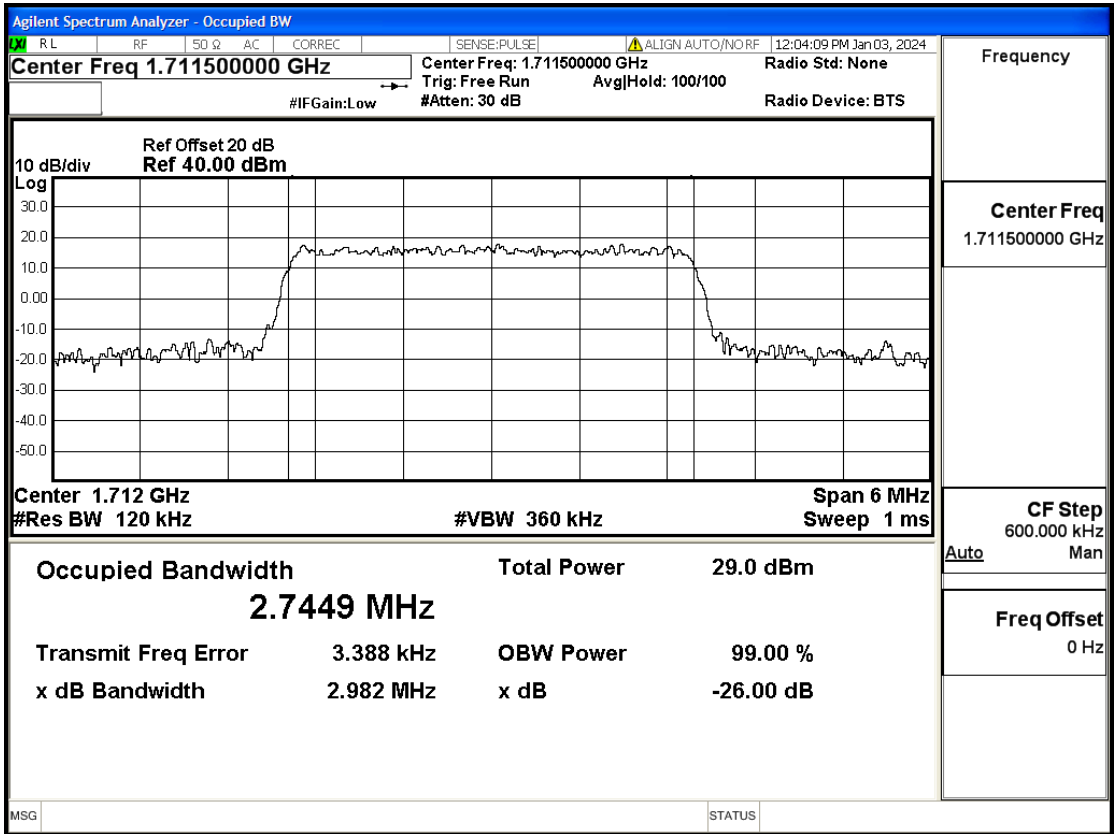
Band4-1.4-1754.3-QPSK-6#LOW@26dB and 99PCT Bandwidth



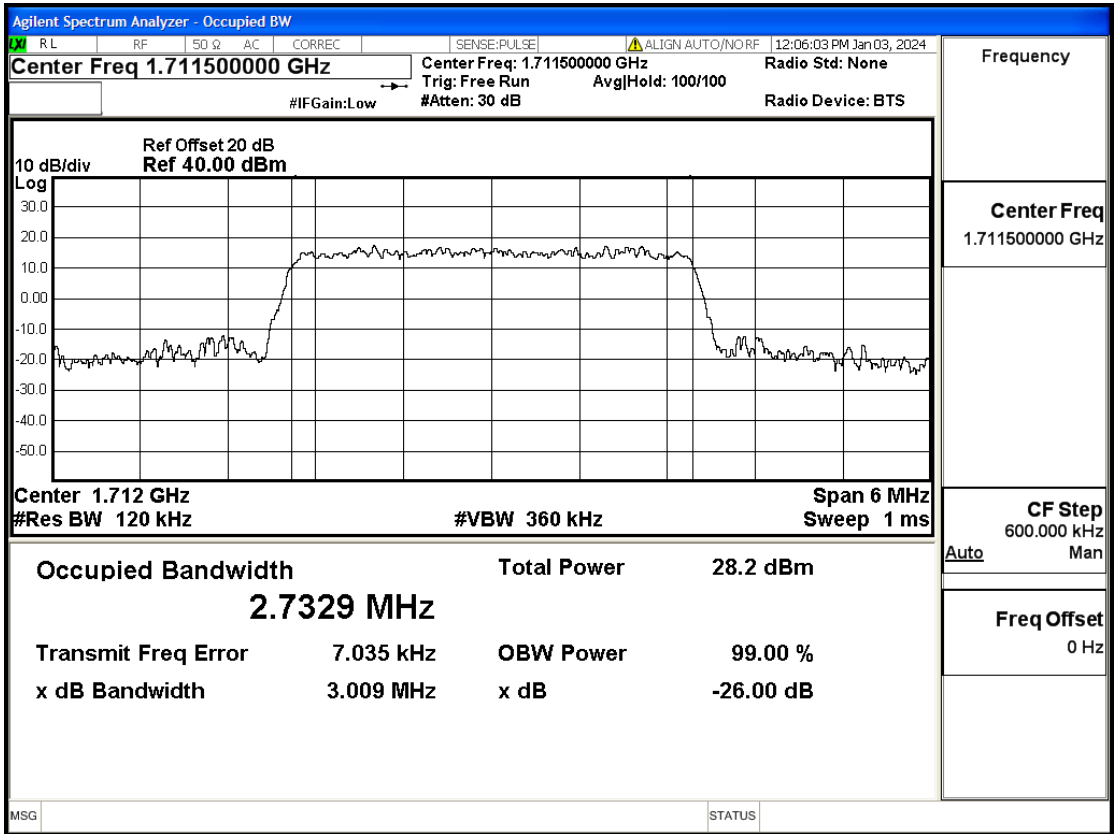
Band4-1.4-1754.3-16QAM-6#LOW@26dB and 99PCT Bandwidth



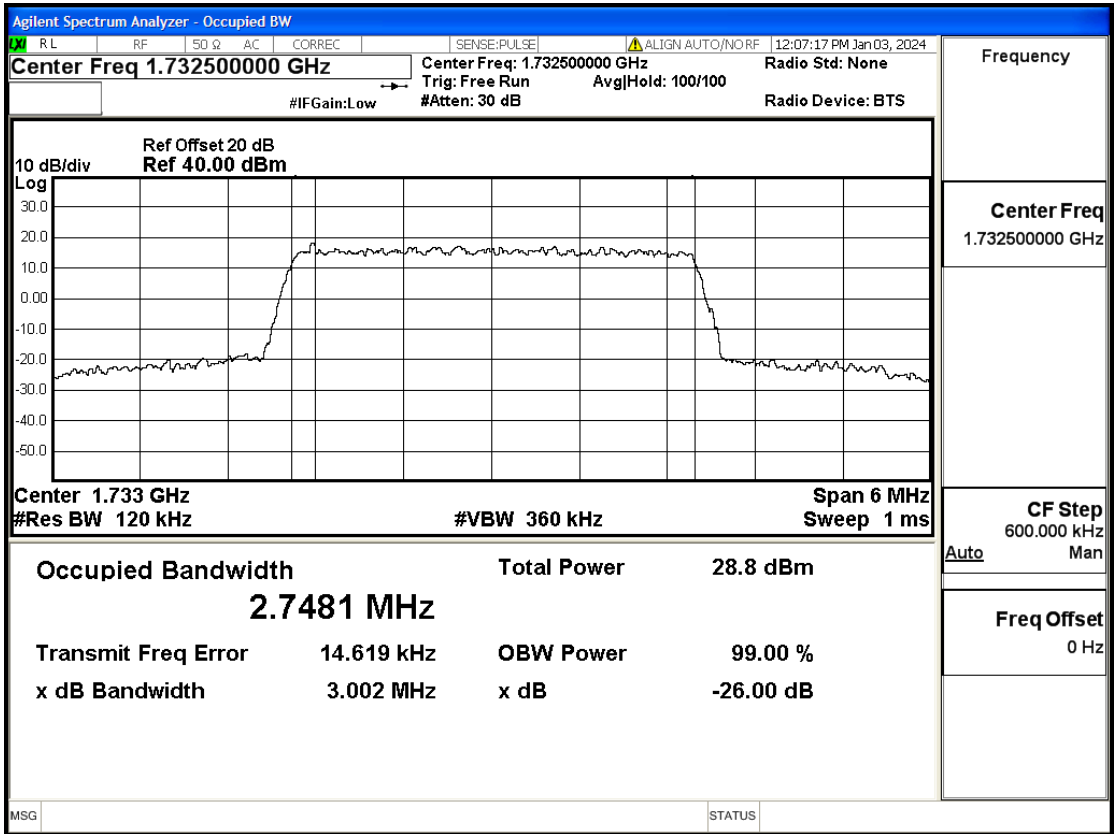
Band4-3-1711.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



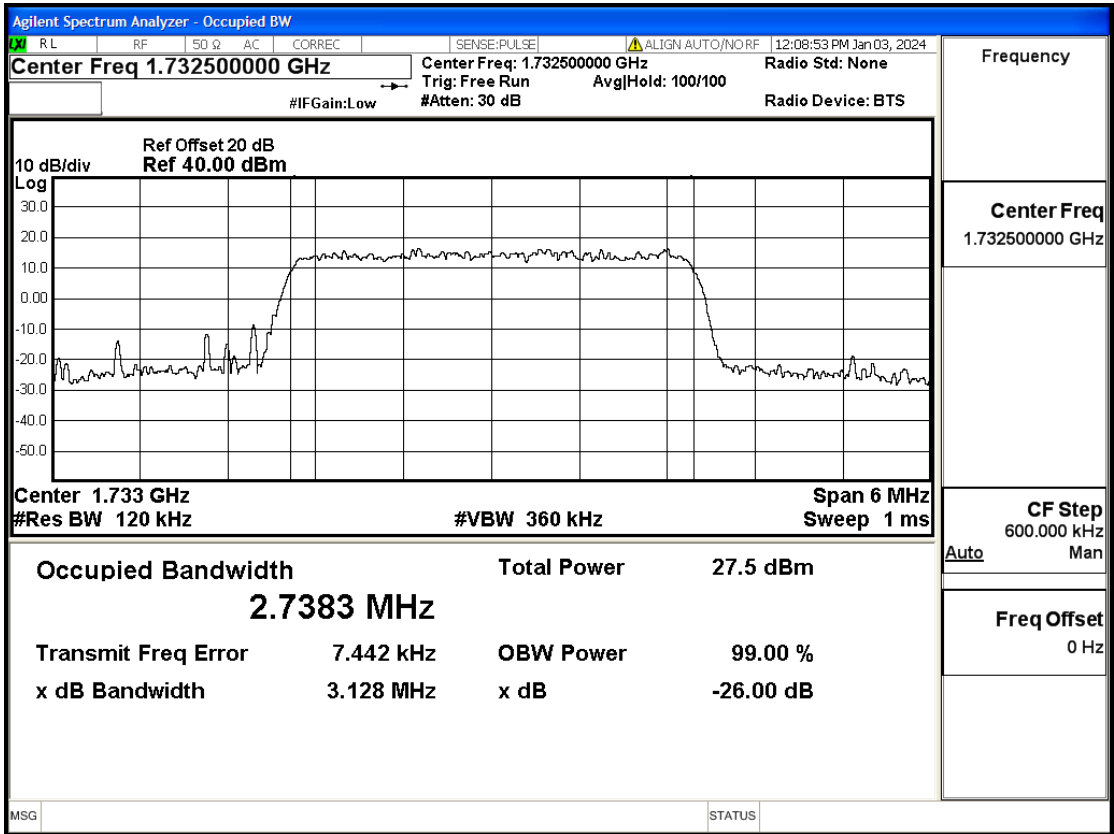
Band4-3-1711.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



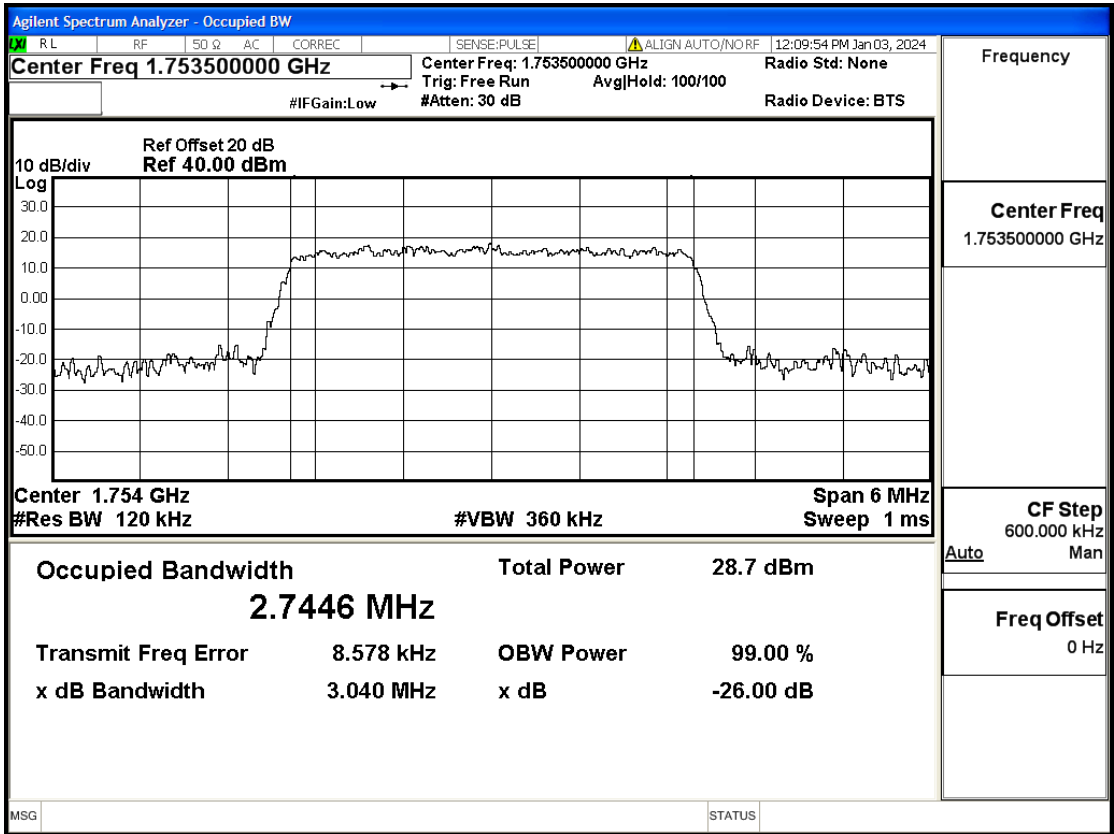
Band4-3-1732.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



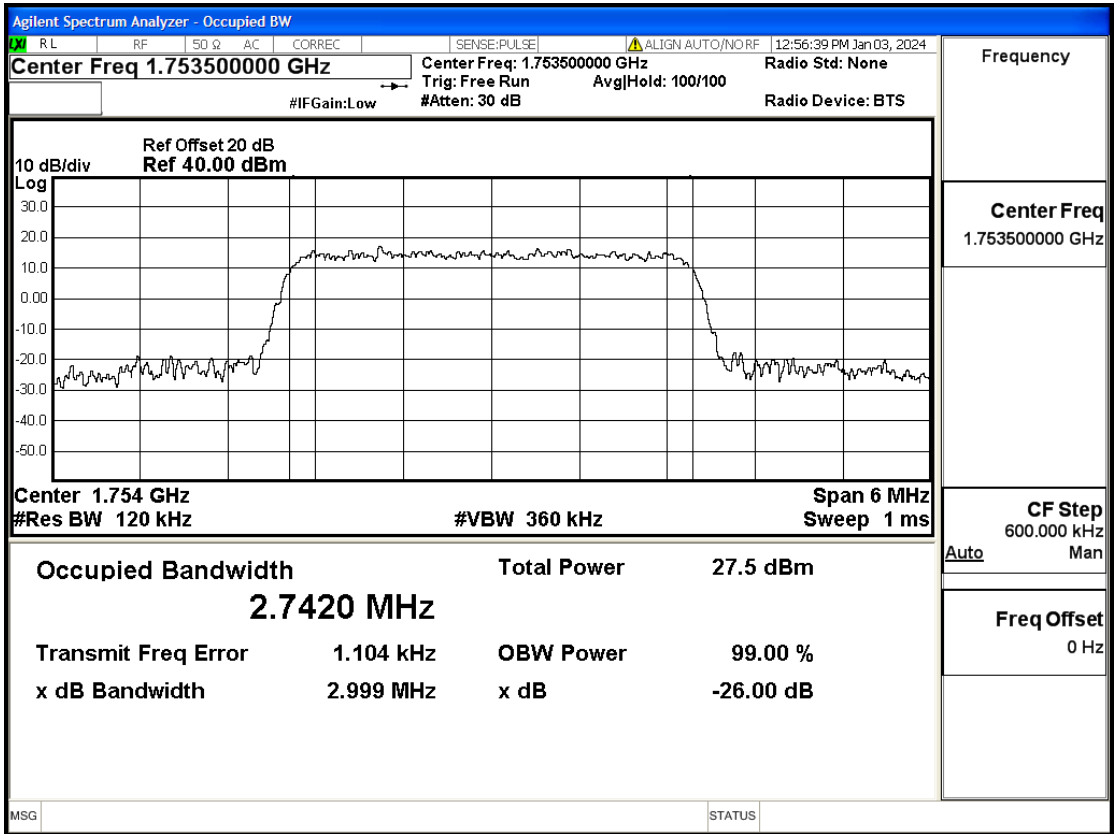
Band4-3-1732.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



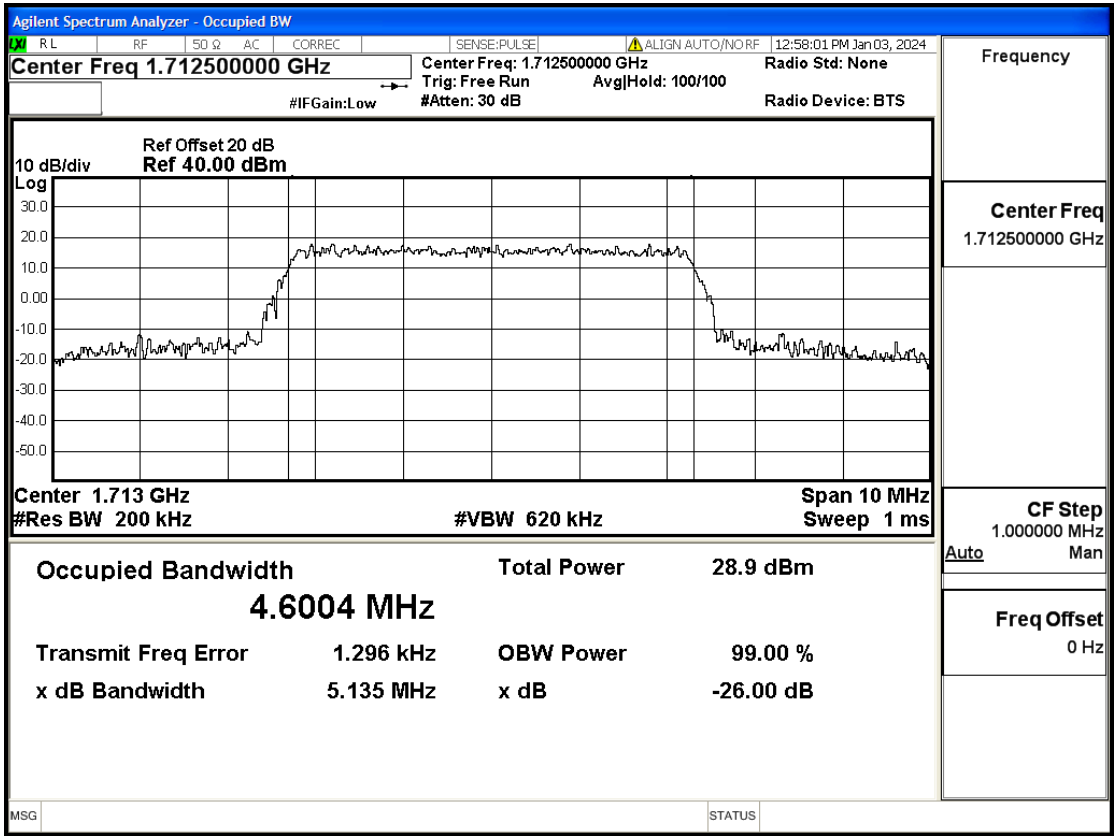
Band4-3-1753.5-QPSK-15#LOW@26dB and 99PCT Bandwidth



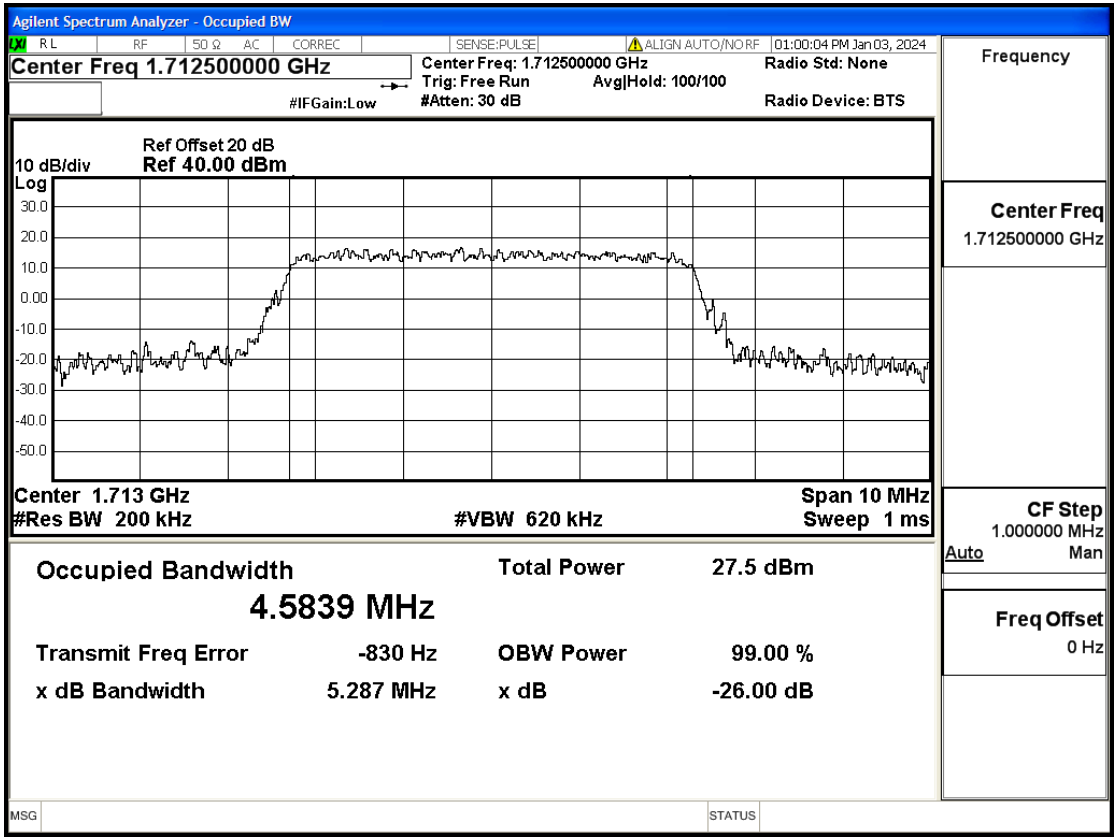
Band4-3-1753.5-16QAM-15#LOW@26dB and 99PCT Bandwidth



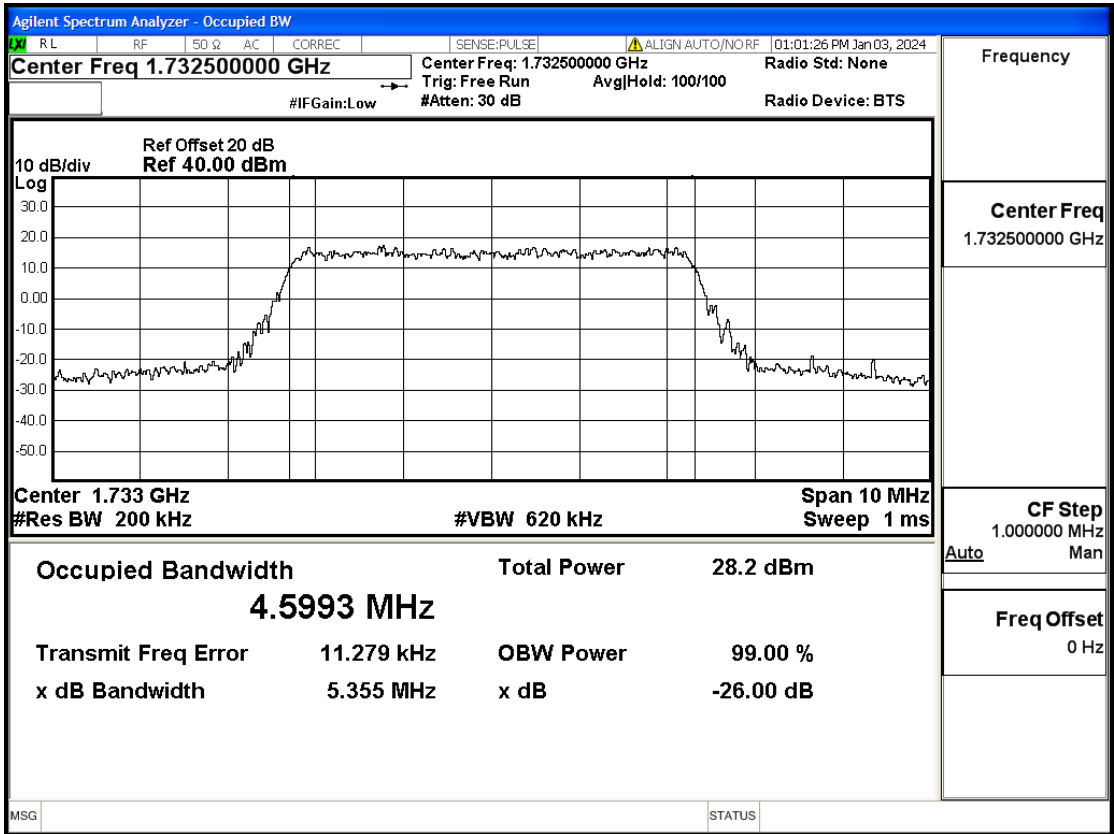
Band4-5-1712.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



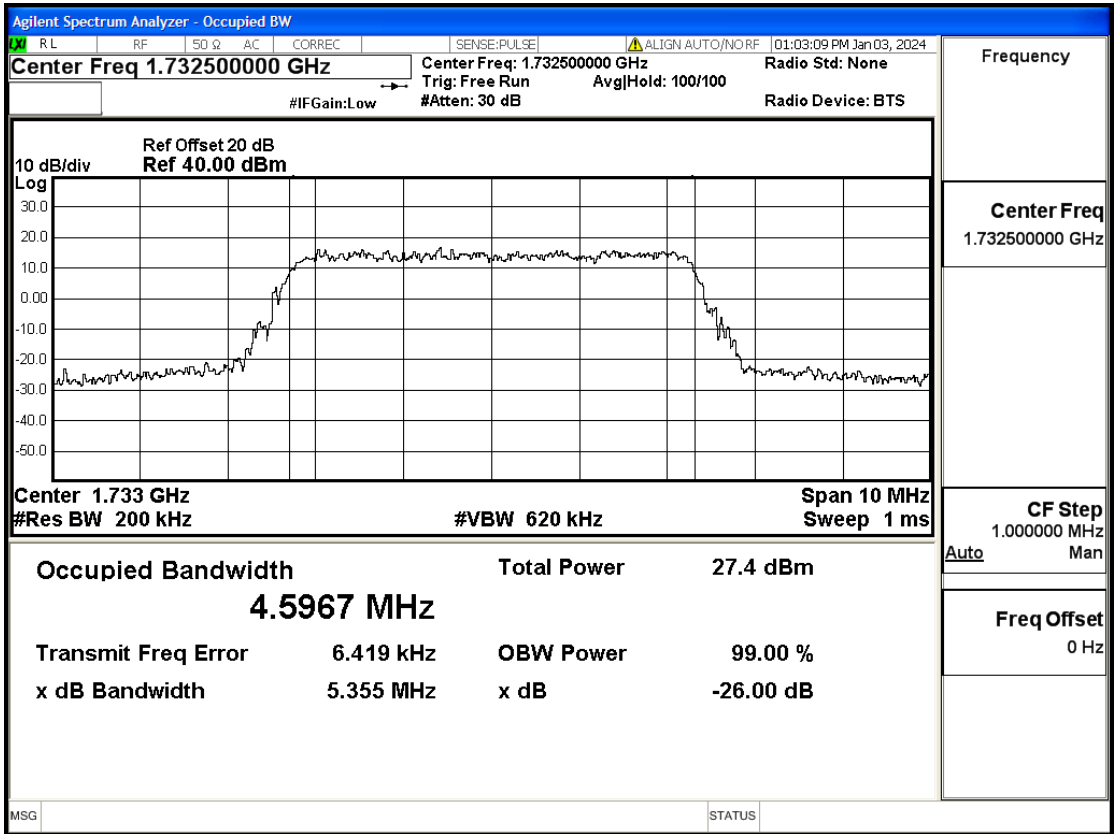
Band4-5-1712.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



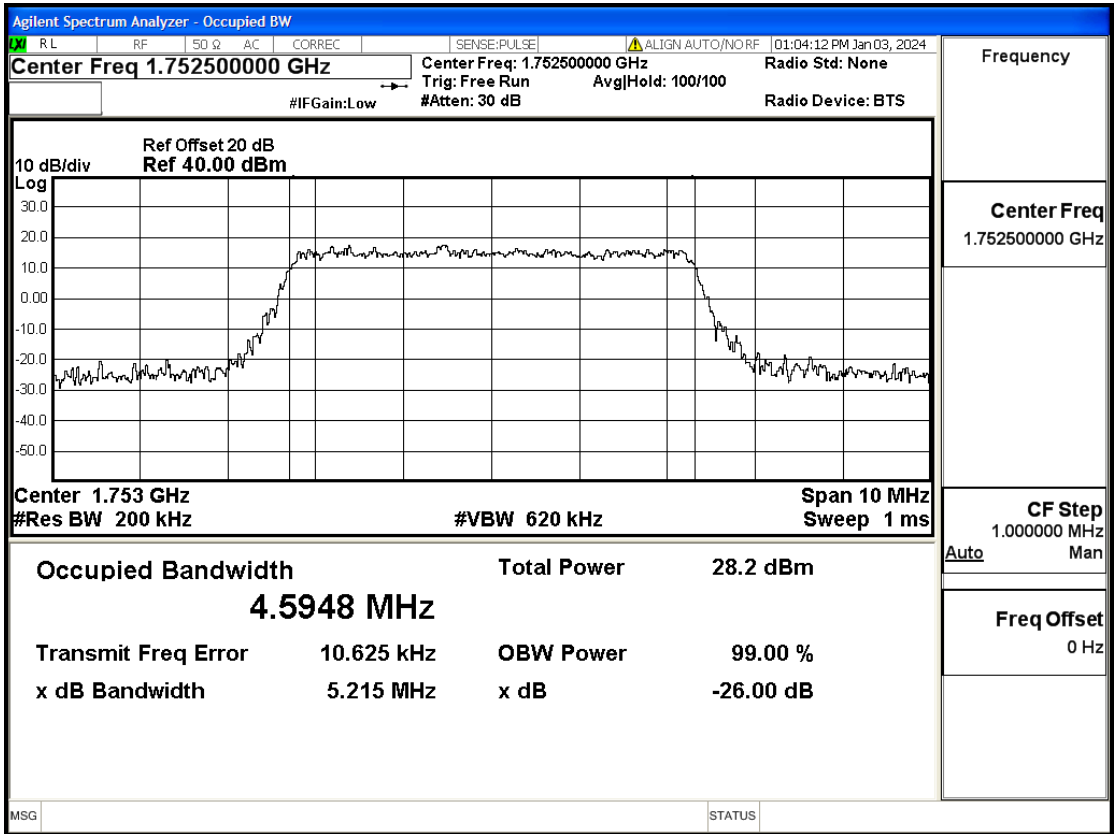
Band4-5-1732.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



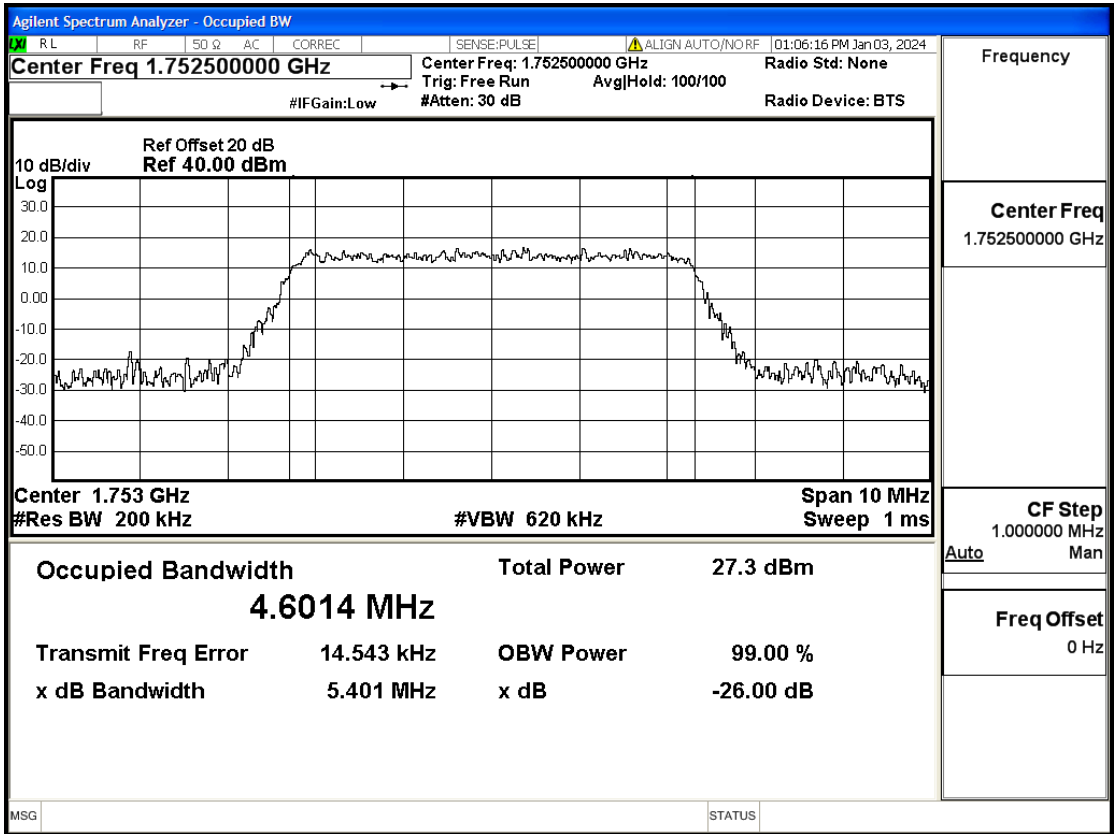
Band4-5-1732.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



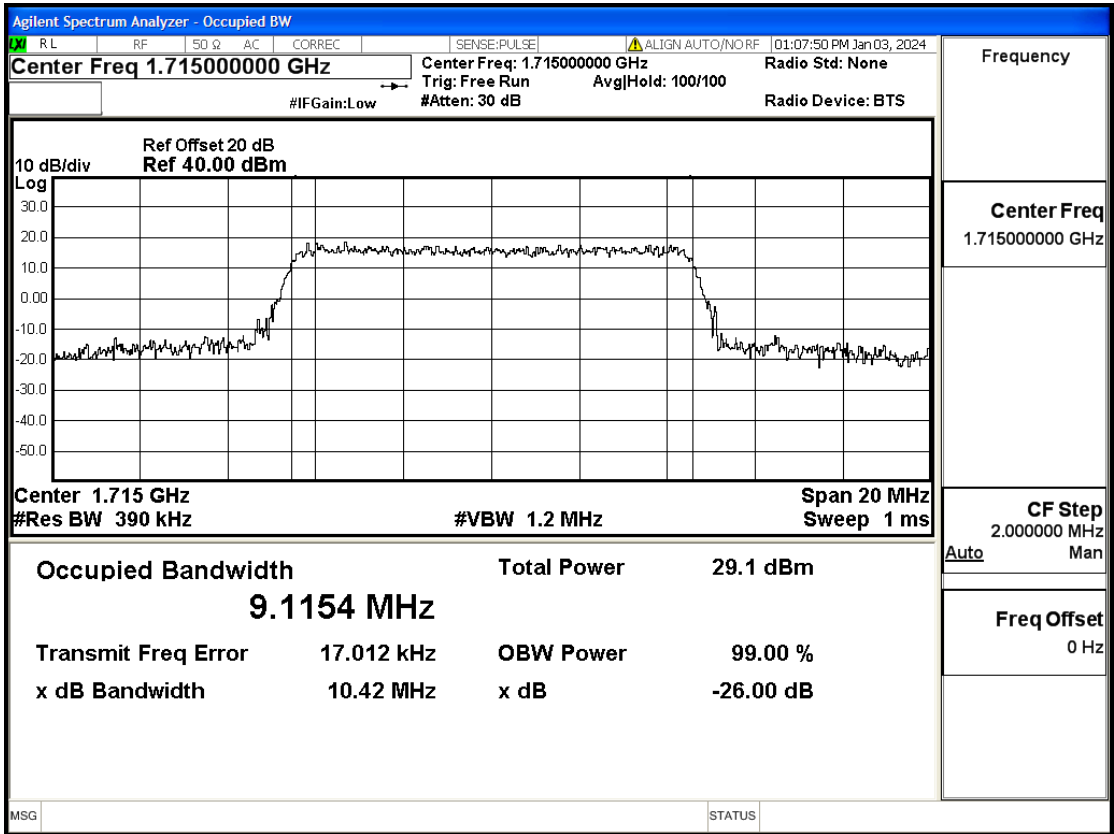
Band4-5-1752.5-QPSK-25#LOW@26dB and 99PCT Bandwidth



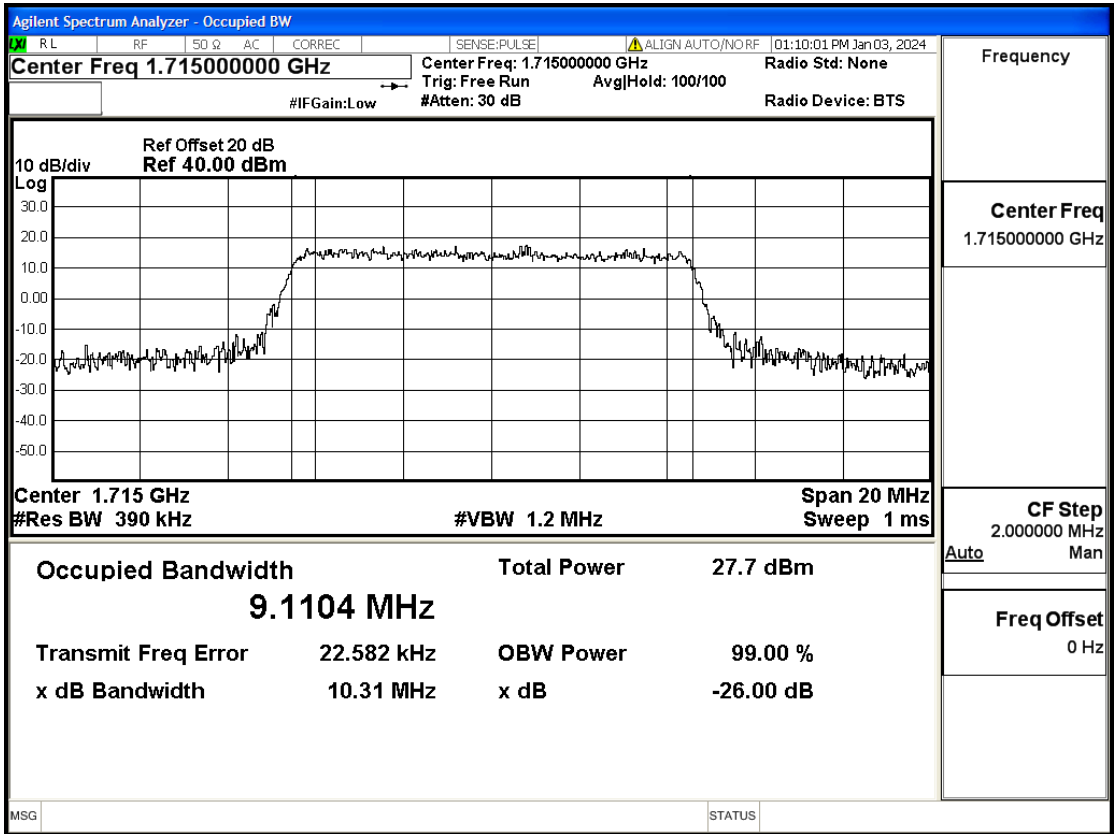
Band4-5-1752.5-16QAM-25#LOW@26dB and 99PCT Bandwidth



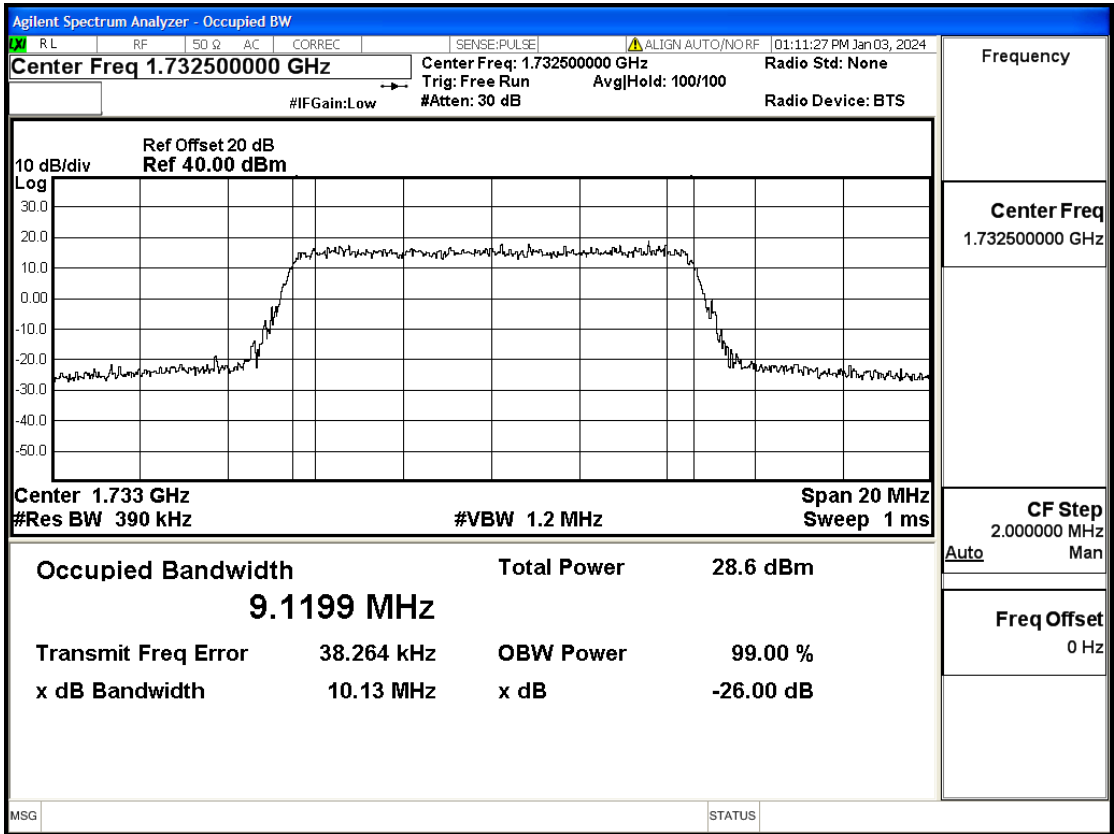
Band4-10-1715-QPSK-50#LOW@26dB and 99PCT Bandwidth



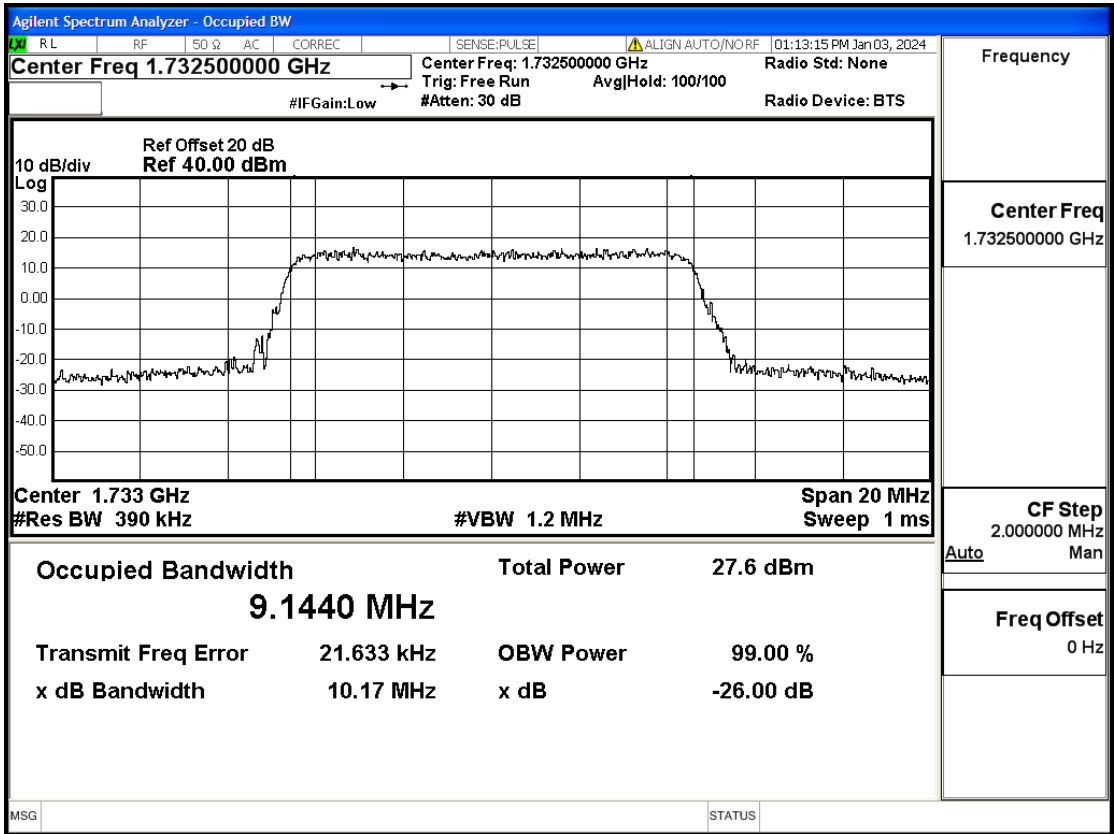
Band4-10-1715-16QAM-50#LOW@26dB and 99PCT Bandwidth



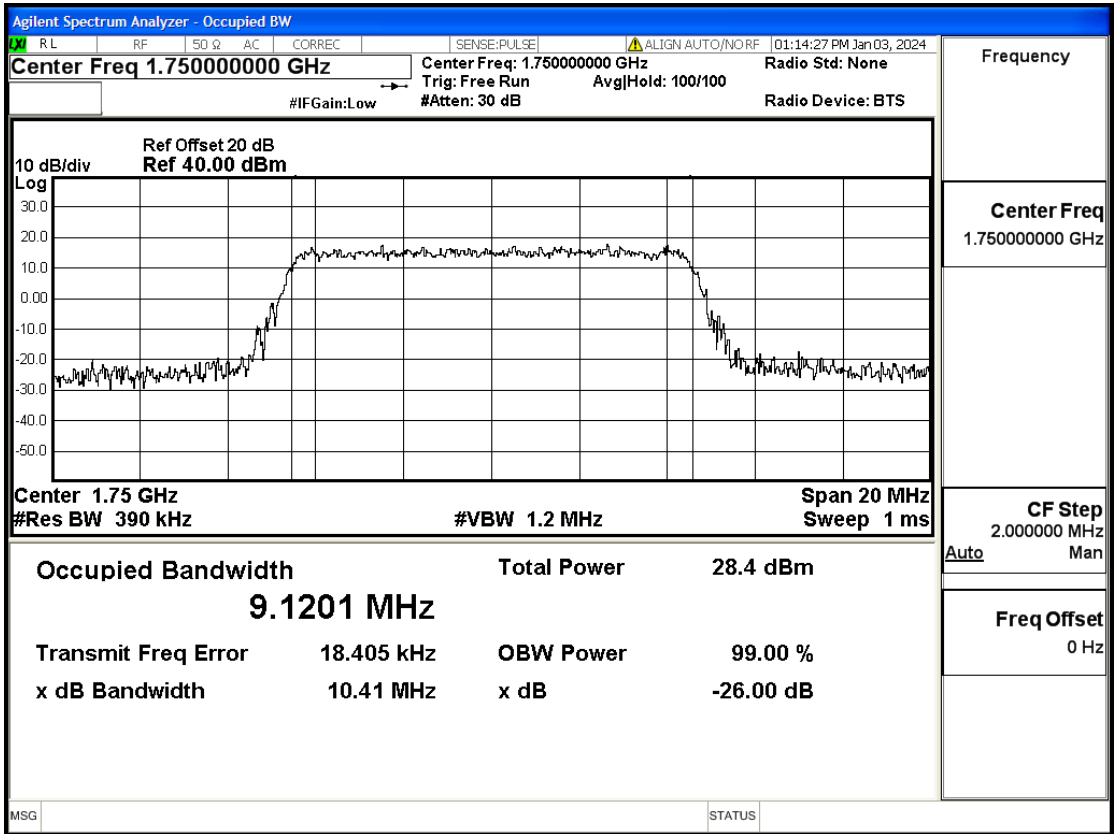
Band4-10-1732.5-QPSK-50#LOW@26dB and 99PCT Bandwidth



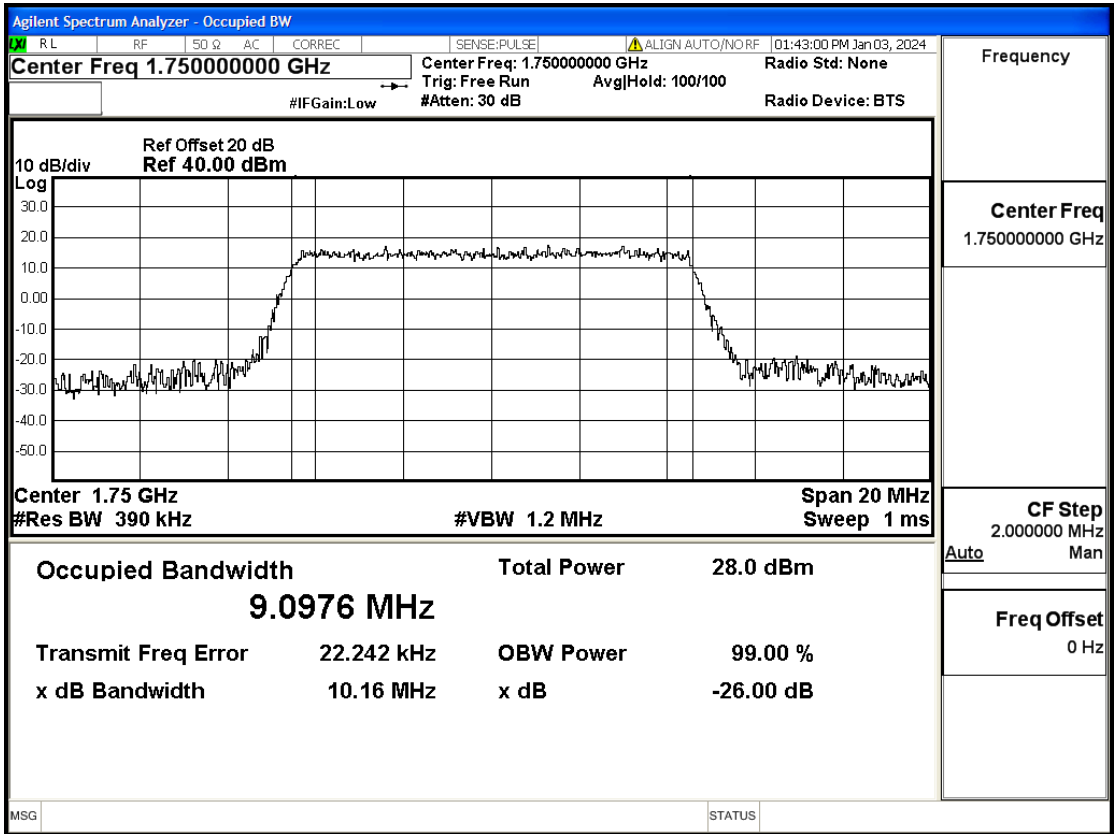
Band4-10-1732.5-16QAM-50#LOW@26dB and 99PCT Bandwidth



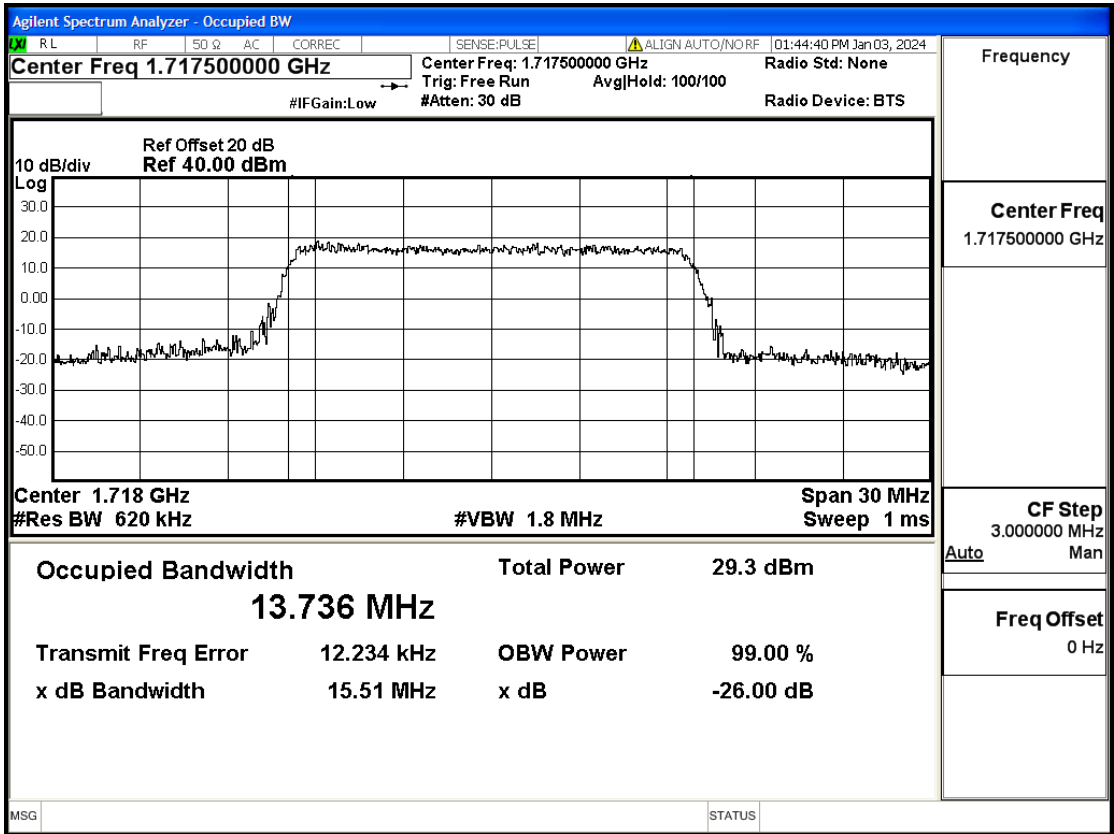
Band4-10-1750-QPSK-50#LOW@26dB and 99PCT Bandwidth



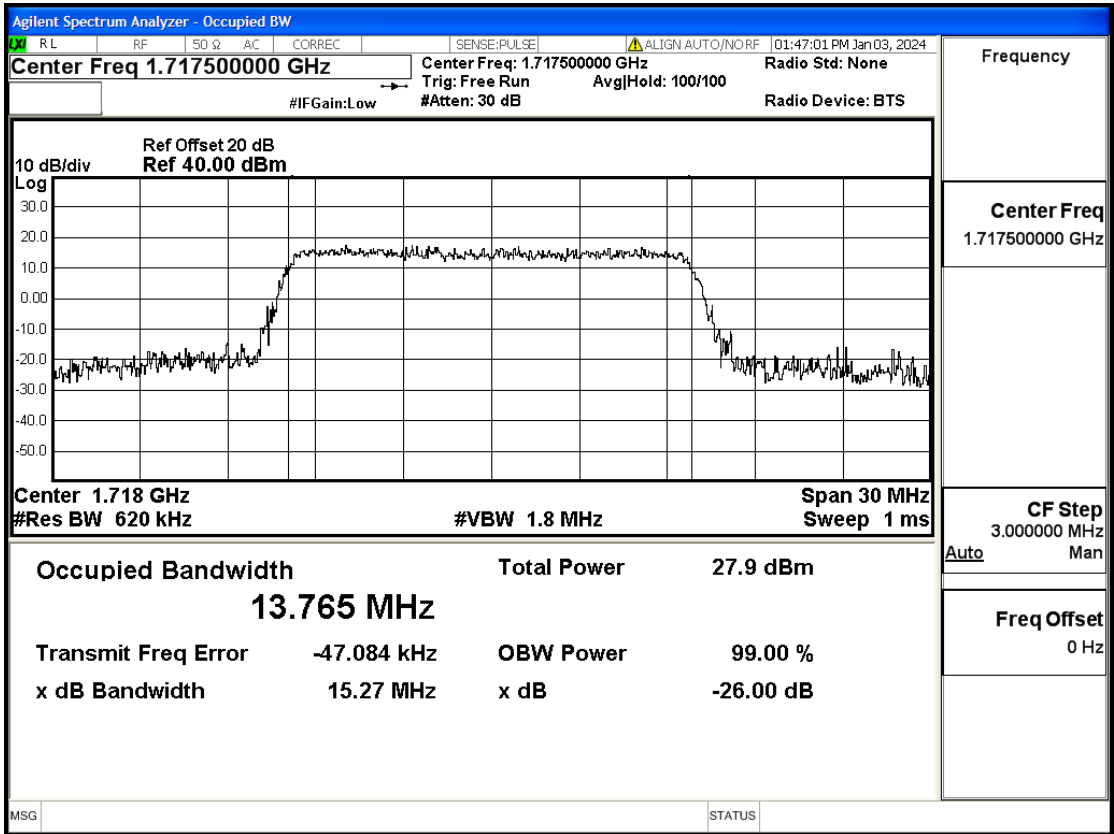
Band4-10-1750-16QAM-50#LOW@26dB and 99PCT Bandwidth



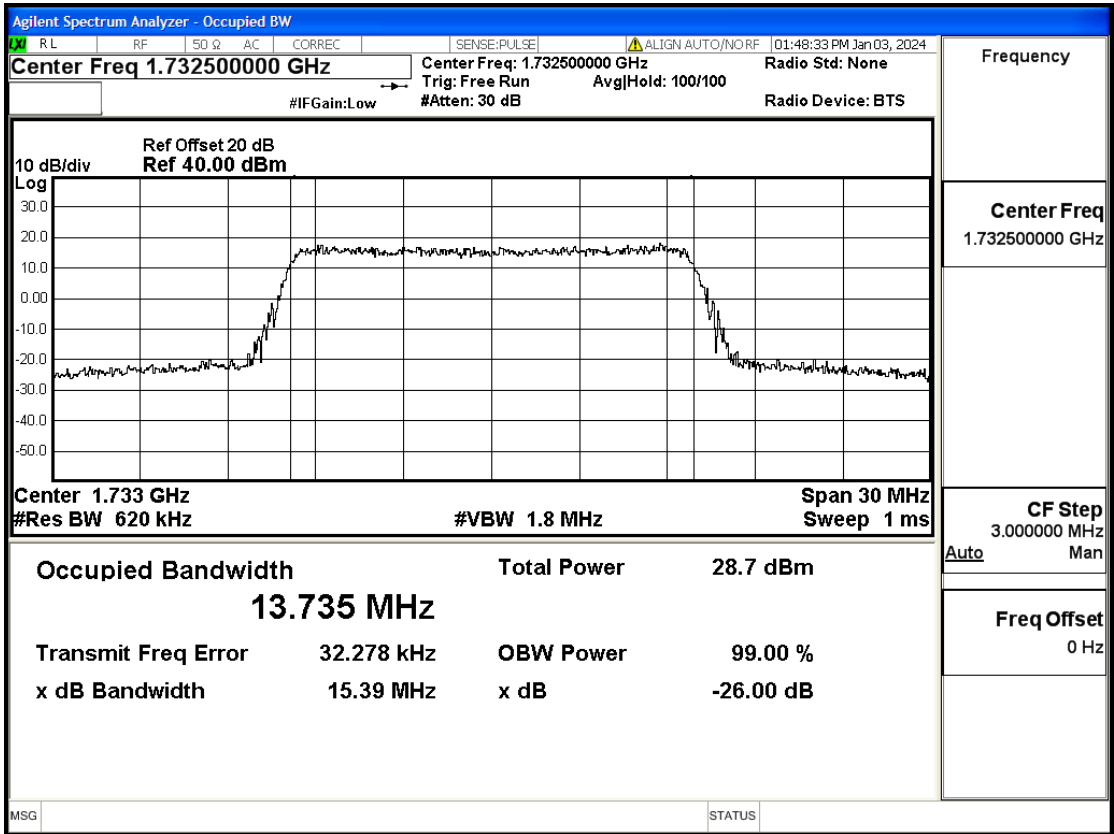
Band4-15-1717.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



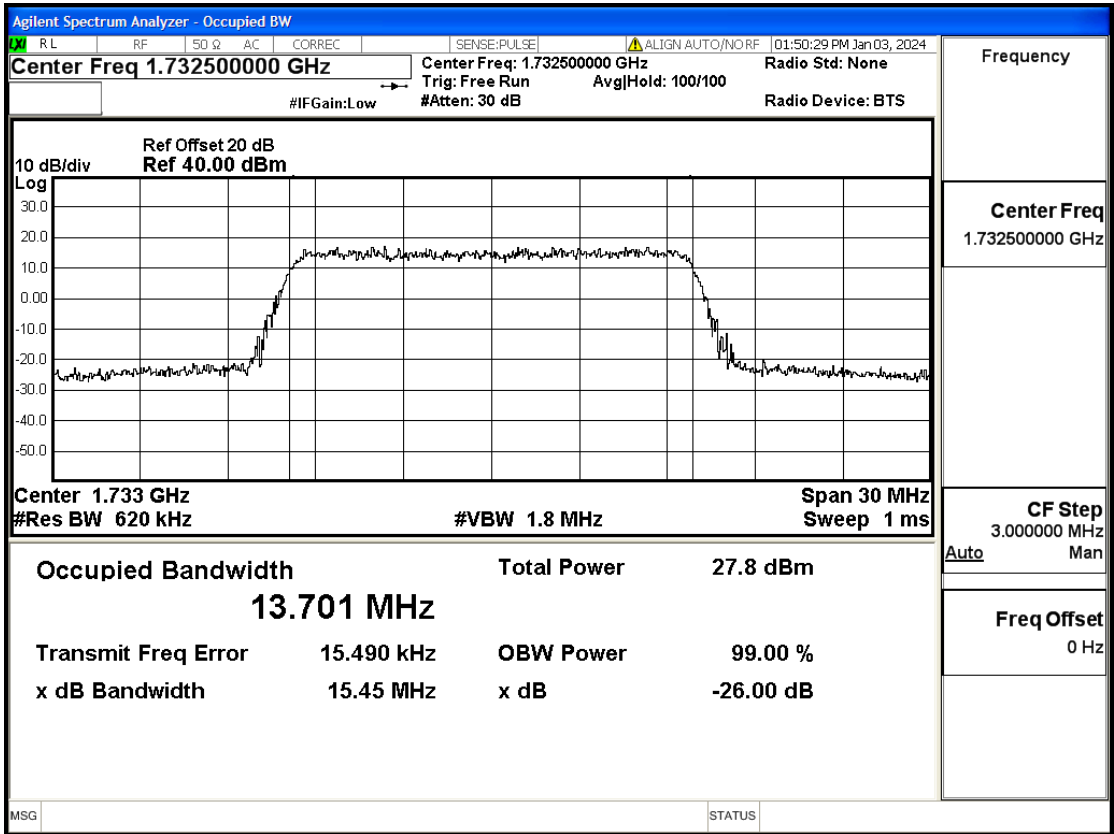
Band4-15-1717.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



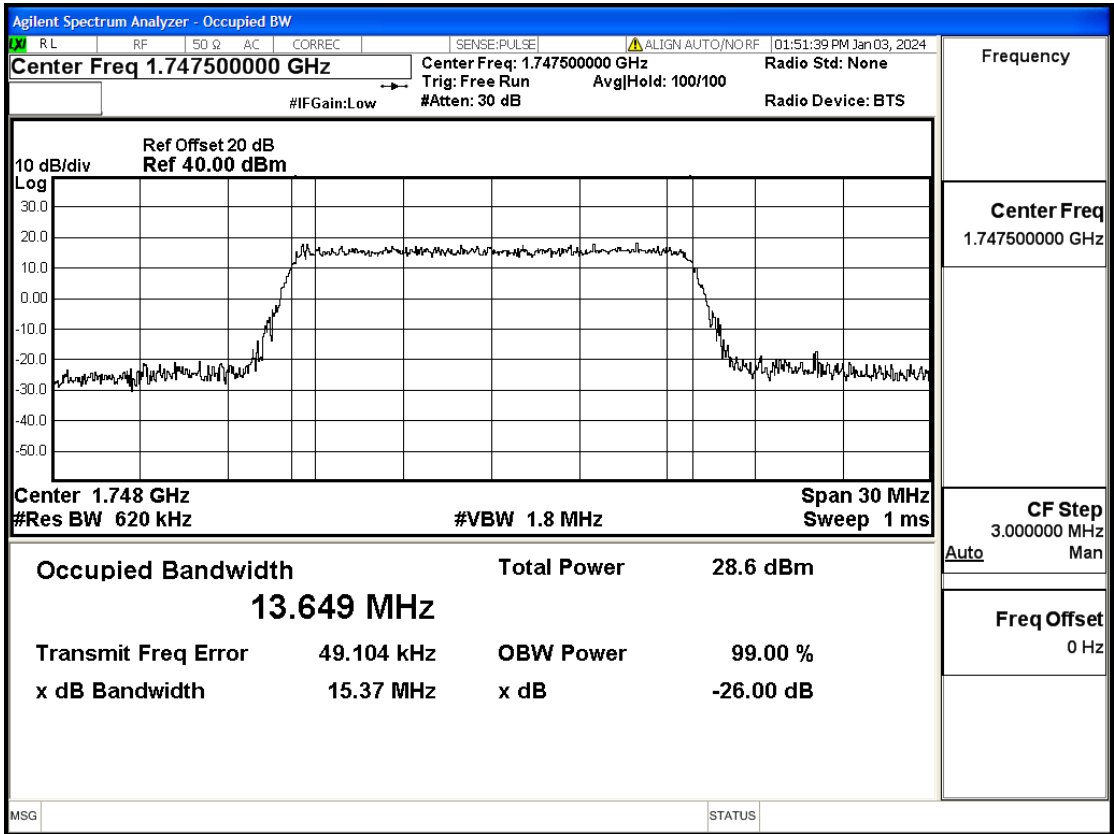
Band4-15-1732.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



Band4-15-1732.5-16QAM-75#LOW@26dB and 99PCT Bandwidth



Band4-15-1747.5-QPSK-75#LOW@26dB and 99PCT Bandwidth



Band4-15-1747.5-16QAM-75#LOW@26dB and 99PCT Bandwidth

