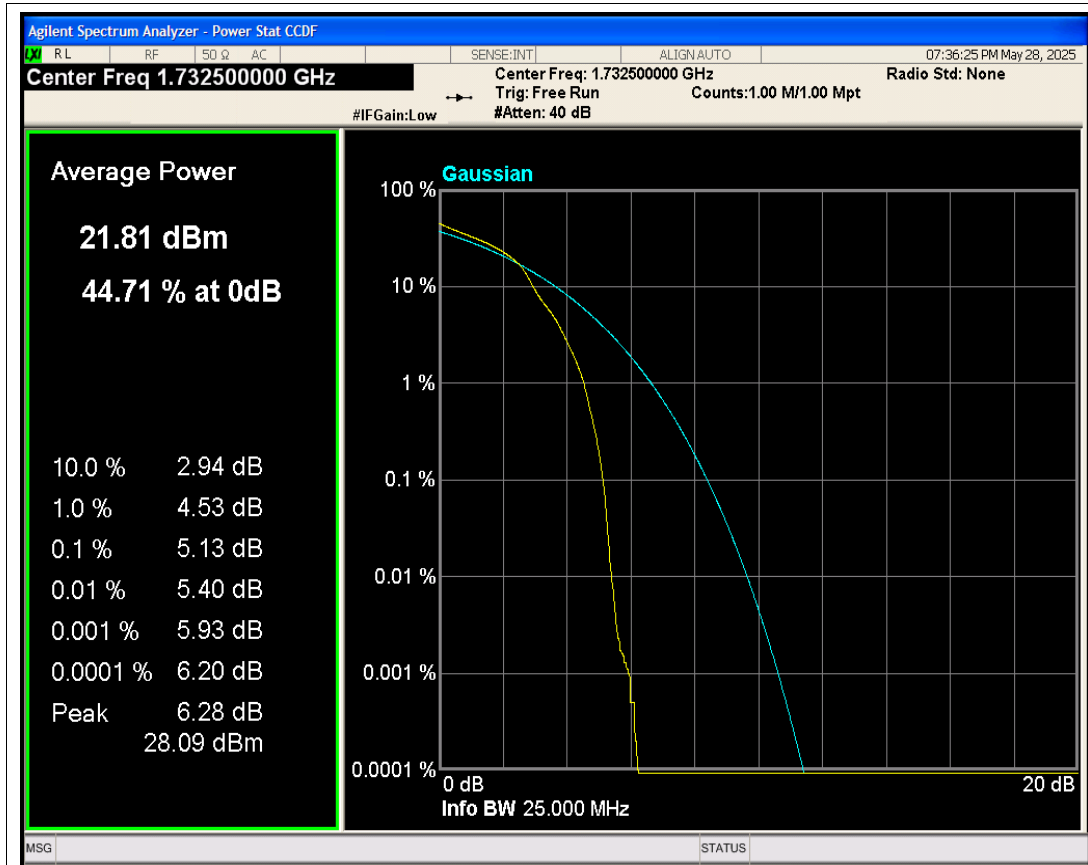
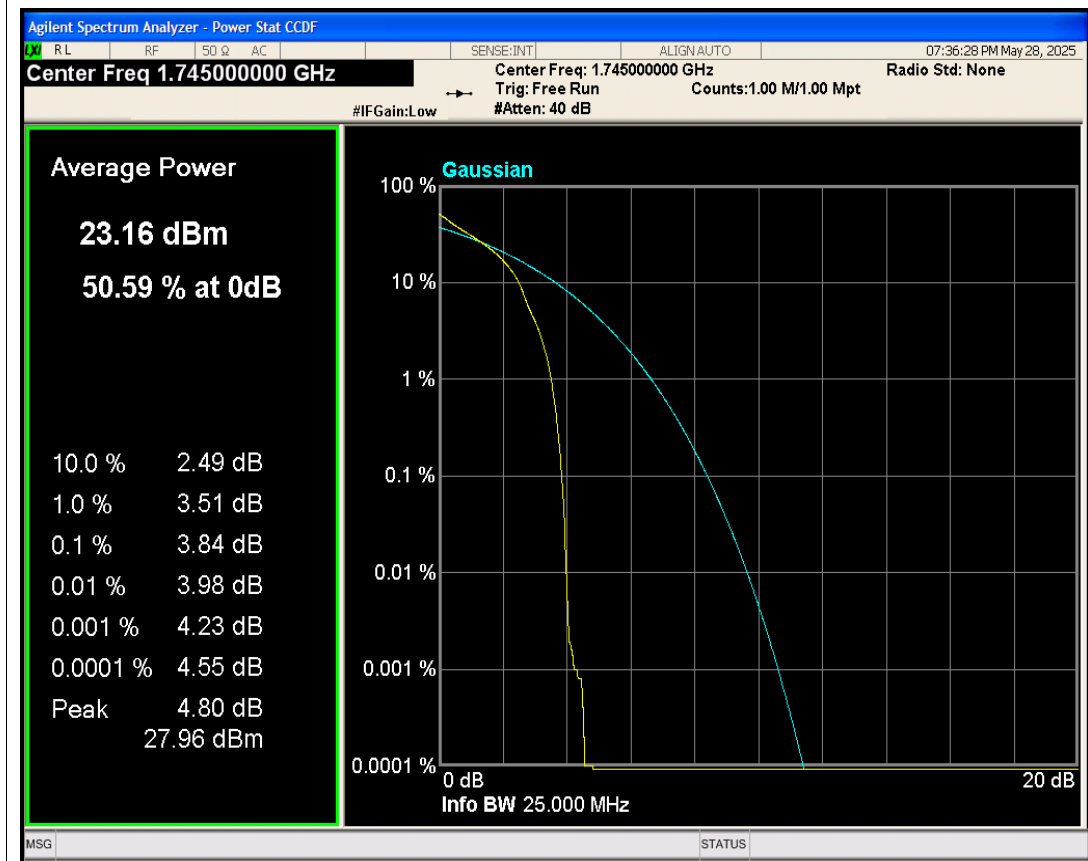
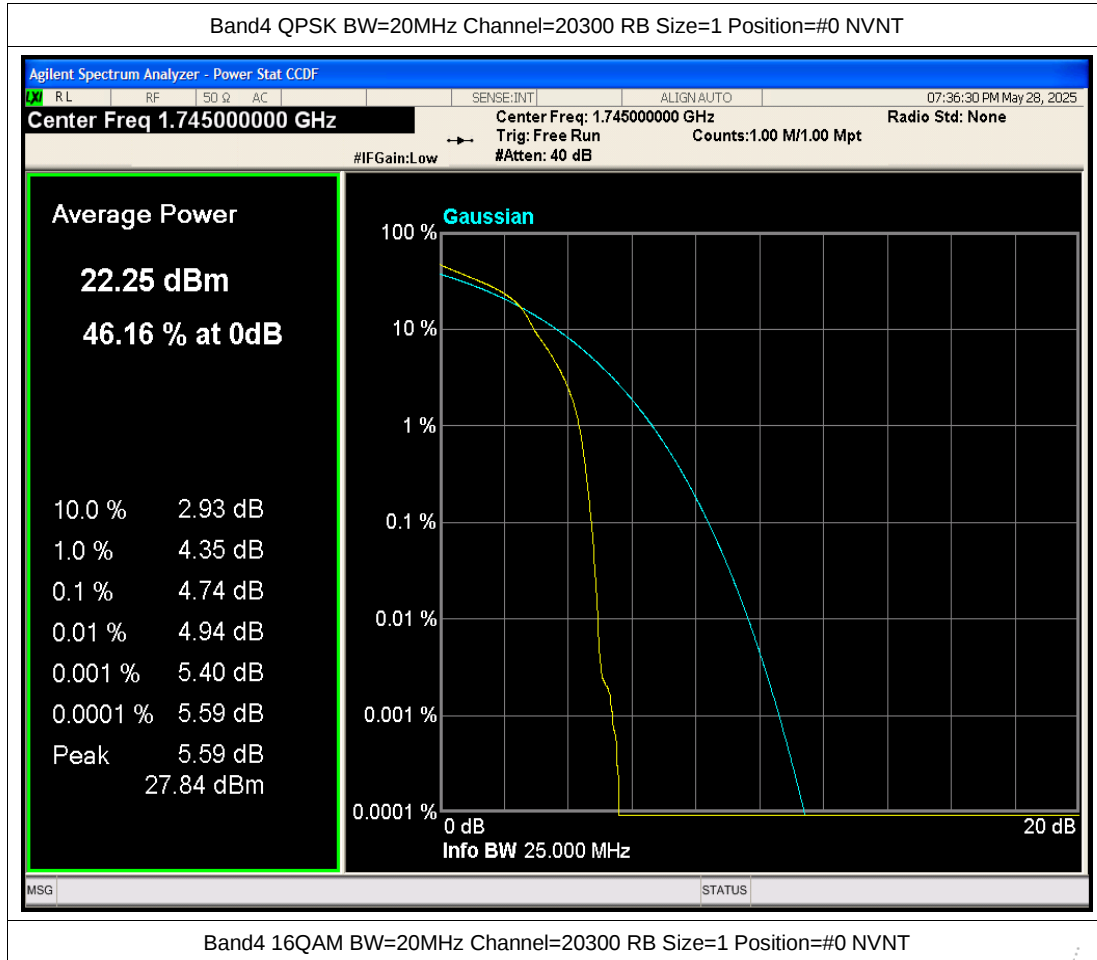




Band4 16QAM BW=20MHz Channel=20175 RB Size=1 Position=#0 NVNT

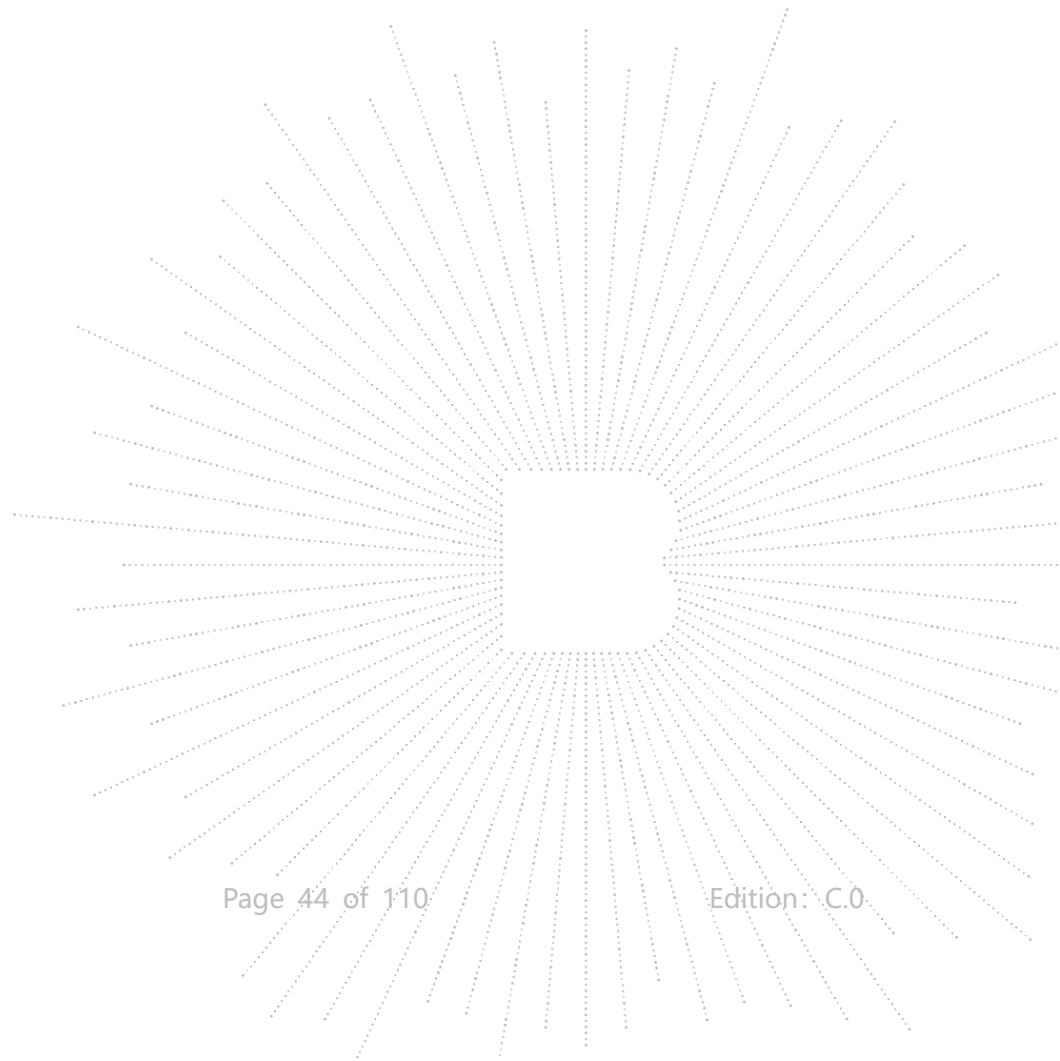


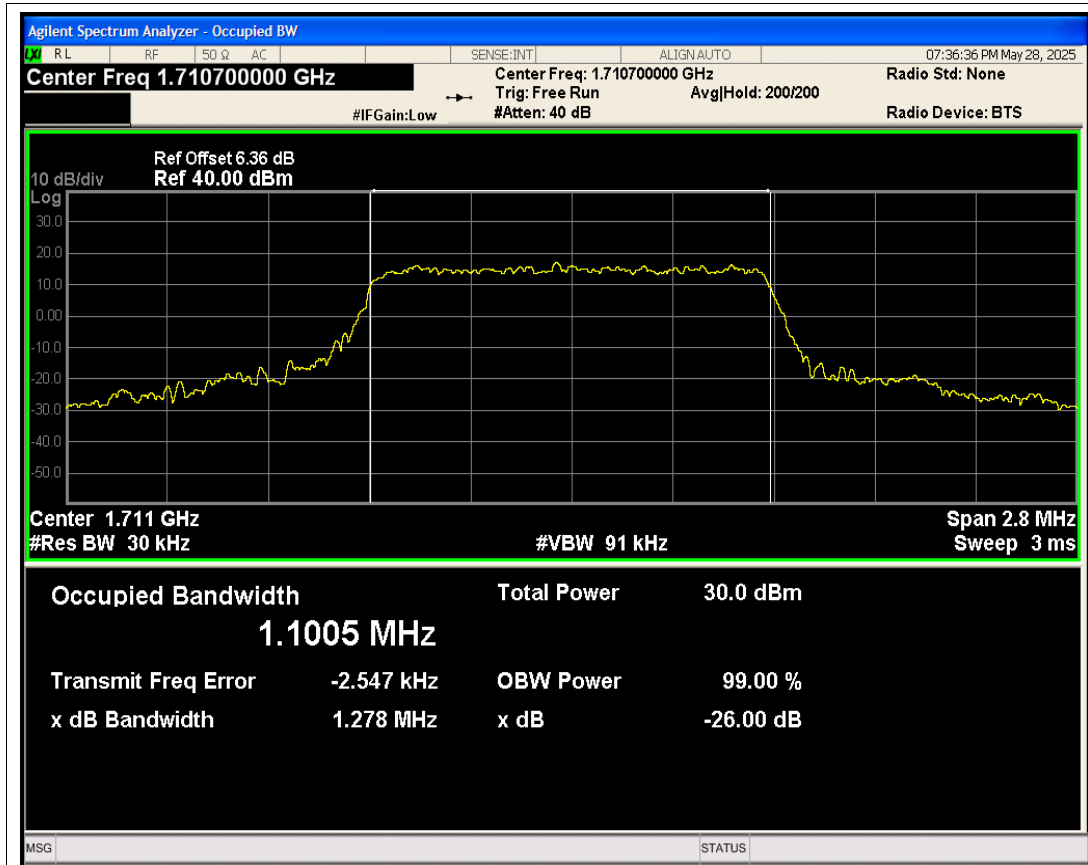


Appendix 4.Occupied bandwidth

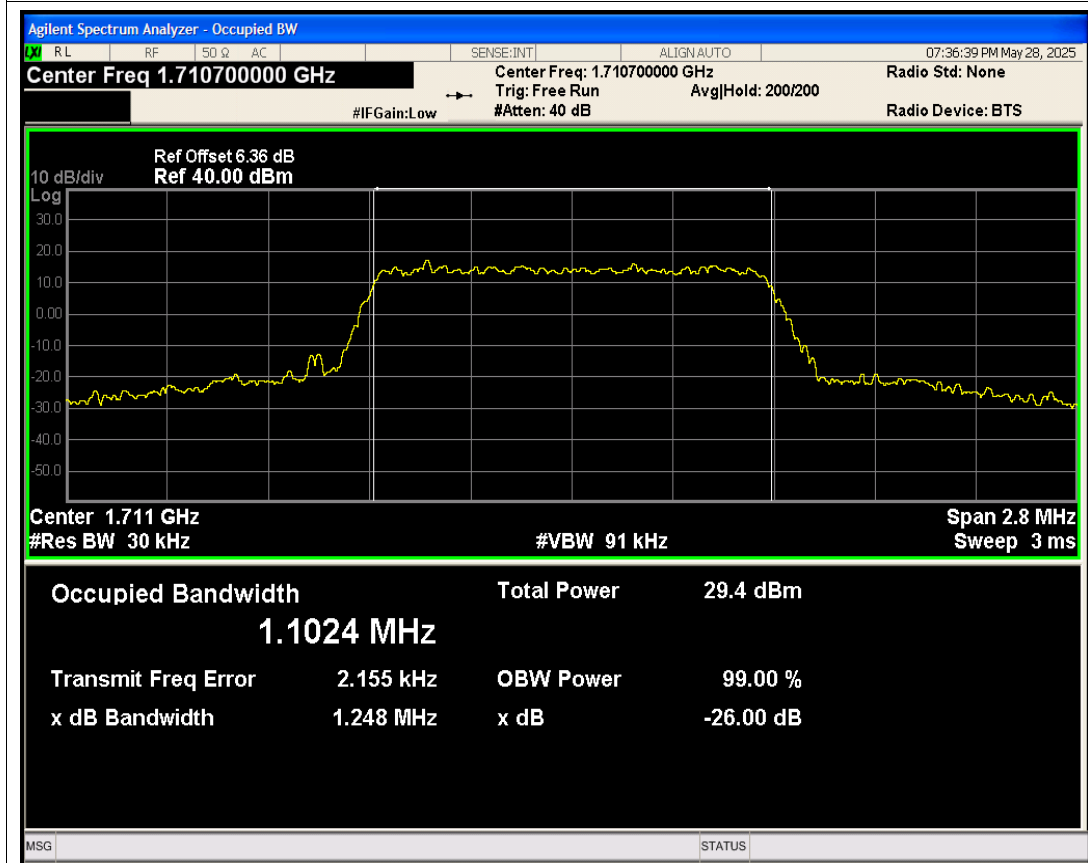
Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
NVNT	Band4	1.4	19957	6	#0	QPSK	1.100	1.278	PASS
NVNT	Band4	1.4	19957	6	#0	16QAM	1.102	1.248	PASS
NVNT	Band4	1.4	20175	6	#0	QPSK	1.100	1.297	PASS
NVNT	Band4	1.4	20175	6	#0	16QAM	1.094	1.267	PASS
NVNT	Band4	1.4	20393	6	#0	QPSK	1.093	1.256	PASS
NVNT	Band4	1.4	20393	6	#0	16QAM	1.100	1.294	PASS
NVNT	Band4	3	19965	15	#0	QPSK	2.714	3.122	PASS
NVNT	Band4	3	19965	15	#0	16QAM	2.705	3.062	PASS
NVNT	Band4	3	20175	15	#0	QPSK	2.720	3.083	PASS
NVNT	Band4	3	20175	15	#0	16QAM	2.718	3.196	PASS
NVNT	Band4	3	20385	15	#0	QPSK	2.710	3.017	PASS
NVNT	Band4	3	20385	15	#0	16QAM	2.713	3.045	PASS
NVNT	Band4	5	19975	25	#0	QPSK	4.533	5.402	PASS
NVNT	Band4	5	19975	25	#0	16QAM	4.514	5.165	PASS
NVNT	Band4	5	20175	25	#0	QPSK	4.514	5.109	PASS

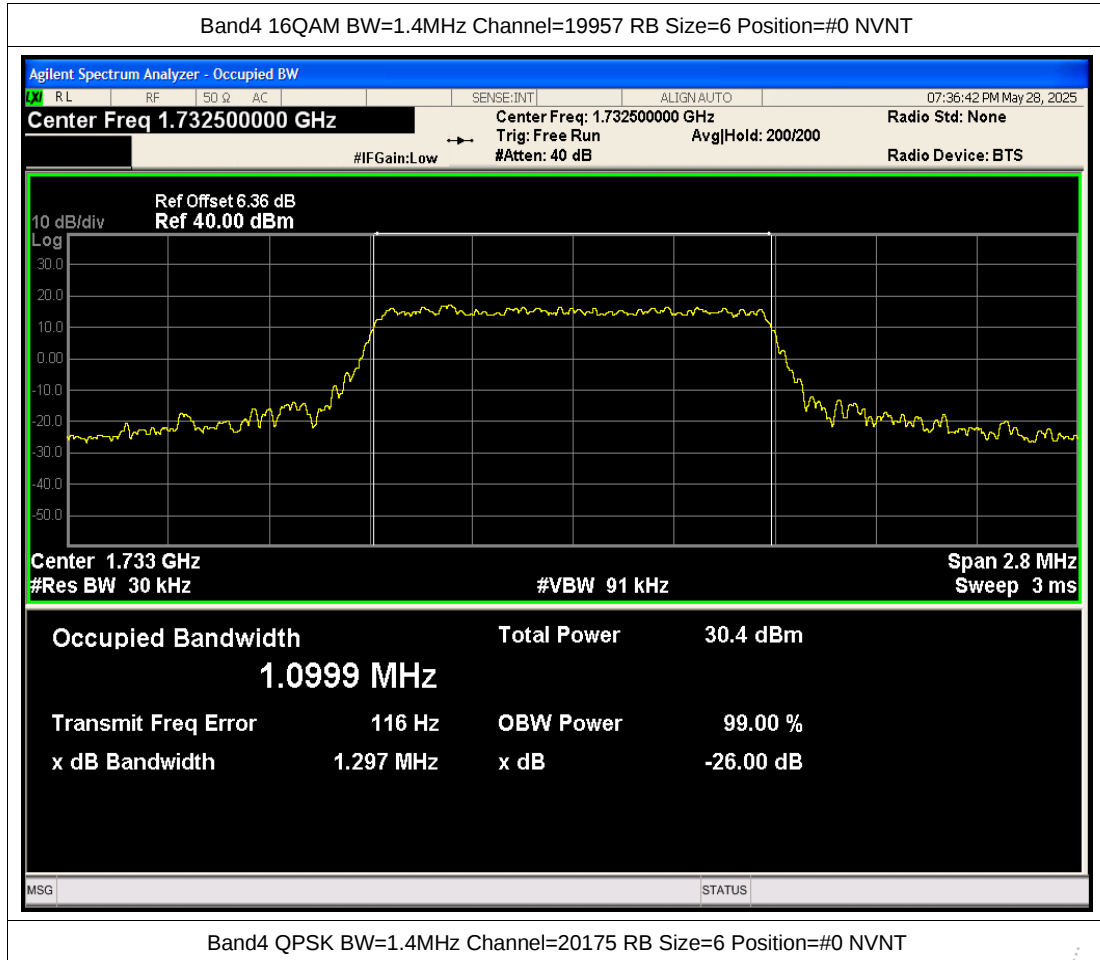
NVNT	Band4	5	20175	25	#0	16QAM	4.532	5.278	PASS
NVNT	Band4	5	20375	25	#0	QPSK	4.503	5.332	PASS
NVNT	Band4	5	20375	25	#0	16QAM	4.525	5.285	PASS
NVNT	Band4	10	20000	50	#0	QPSK	8.985	9.898	PASS
NVNT	Band4	10	20000	50	#0	16QAM	8.988	10.075	PASS
NVNT	Band4	10	20175	50	#0	QPSK	8.981	9.801	PASS
NVNT	Band4	10	20175	50	#0	16QAM	8.964	9.762	PASS
NVNT	Band4	10	20350	50	#0	QPSK	9.010	9.977	PASS
NVNT	Band4	10	20350	50	#0	16QAM	9.029	10.386	PASS
NVNT	Band4	15	20025	75	#0	QPSK	13.505	15.180	PASS
NVNT	Band4	15	20025	75	#0	16QAM	13.492	14.772	PASS
NVNT	Band4	15	20175	75	#0	QPSK	13.470	14.860	PASS
NVNT	Band4	15	20175	75	#0	16QAM	13.459	14.927	PASS
NVNT	Band4	15	20325	75	#0	QPSK	13.507	15.879	PASS
NVNT	Band4	15	20325	75	#0	16QAM	13.524	14.738	PASS
NVNT	Band4	20	20050	100	#0	QPSK	18.016	19.836	PASS
NVNT	Band4	20	20050	100	#0	16QAM	18.021	19.855	PASS
NVNT	Band4	20	20175	100	#0	QPSK	17.989	19.992	PASS
NVNT	Band4	20	20175	100	#0	16QAM	17.974	19.596	PASS
NVNT	Band4	20	20300	100	#0	QPSK	18.094	20.191	PASS
NVNT	Band4	20	20300	100	#0	16QAM	18.085	20.238	PASS

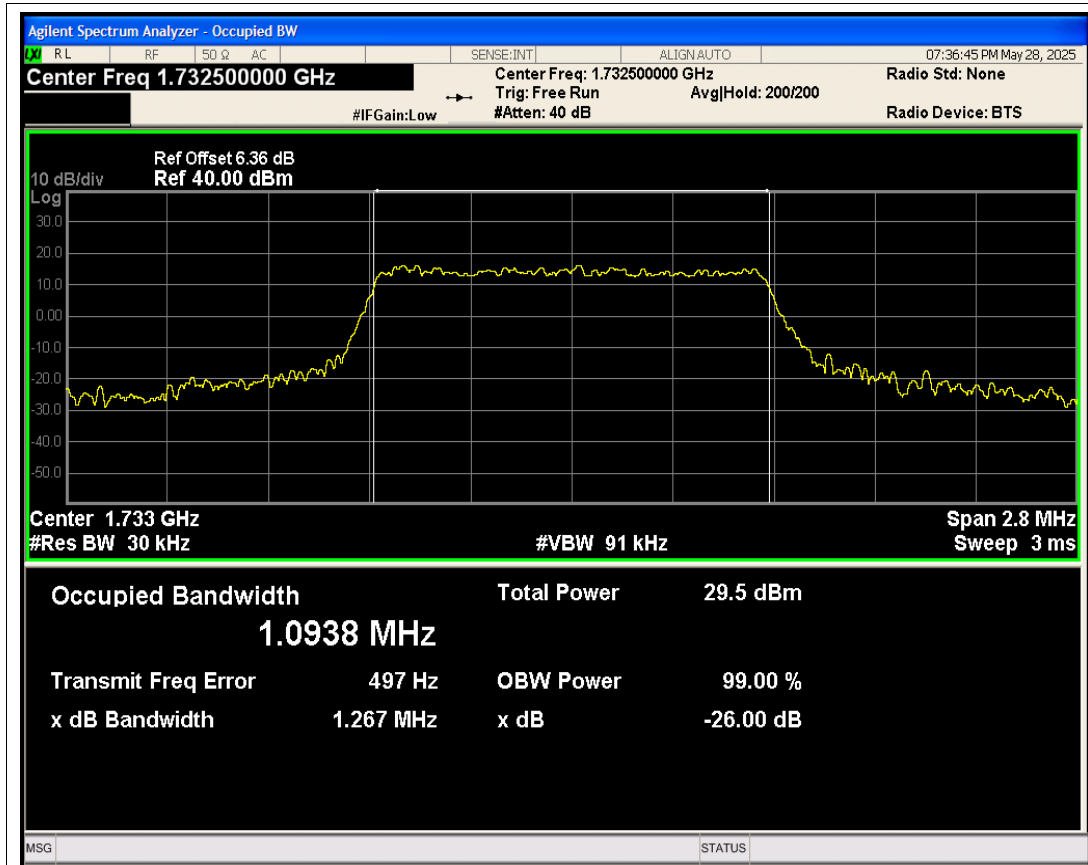




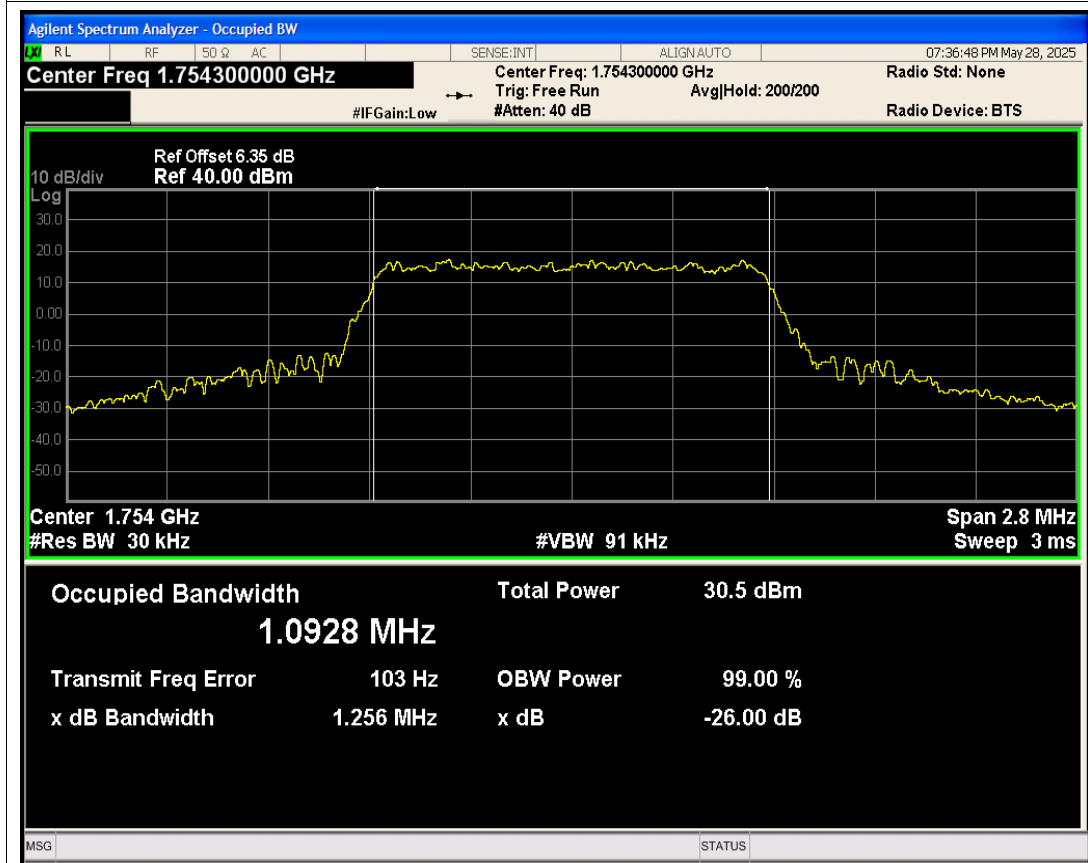
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0 NVNT

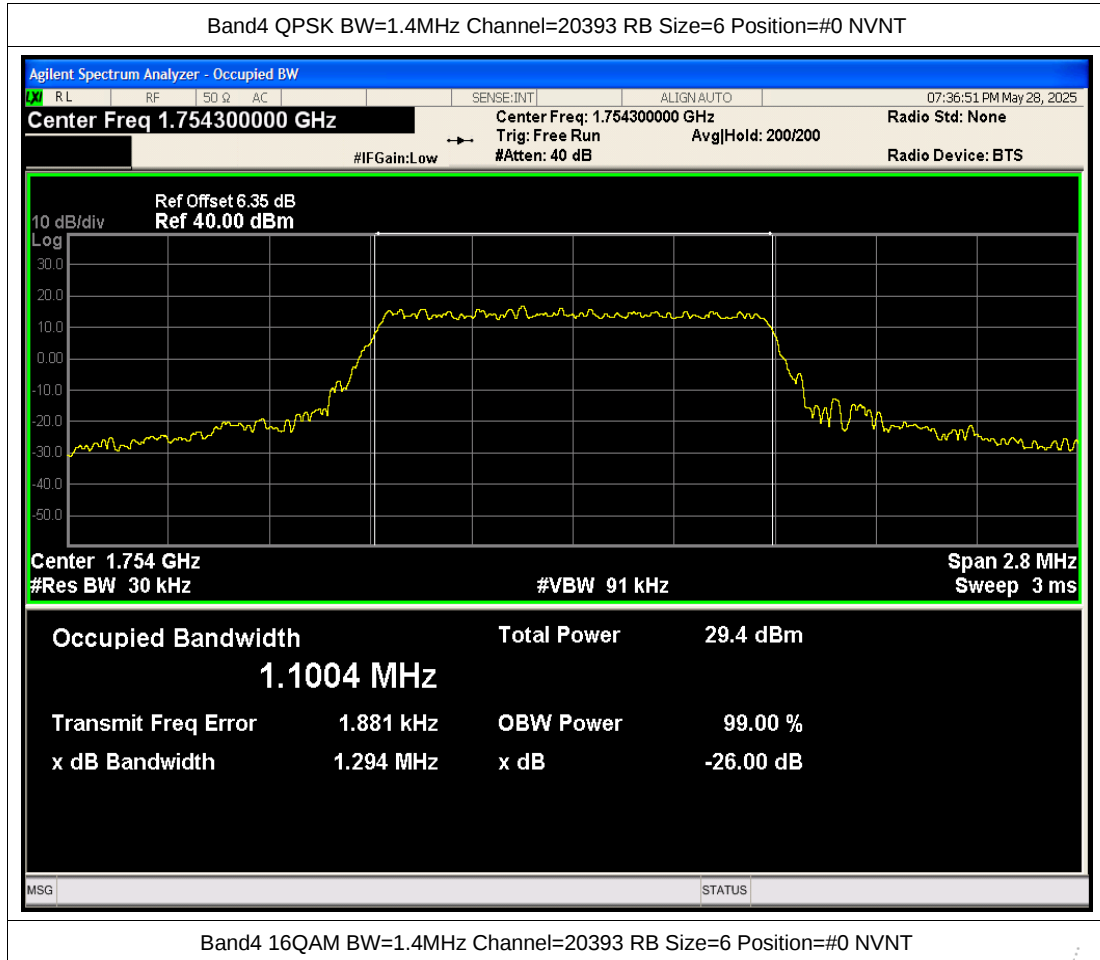


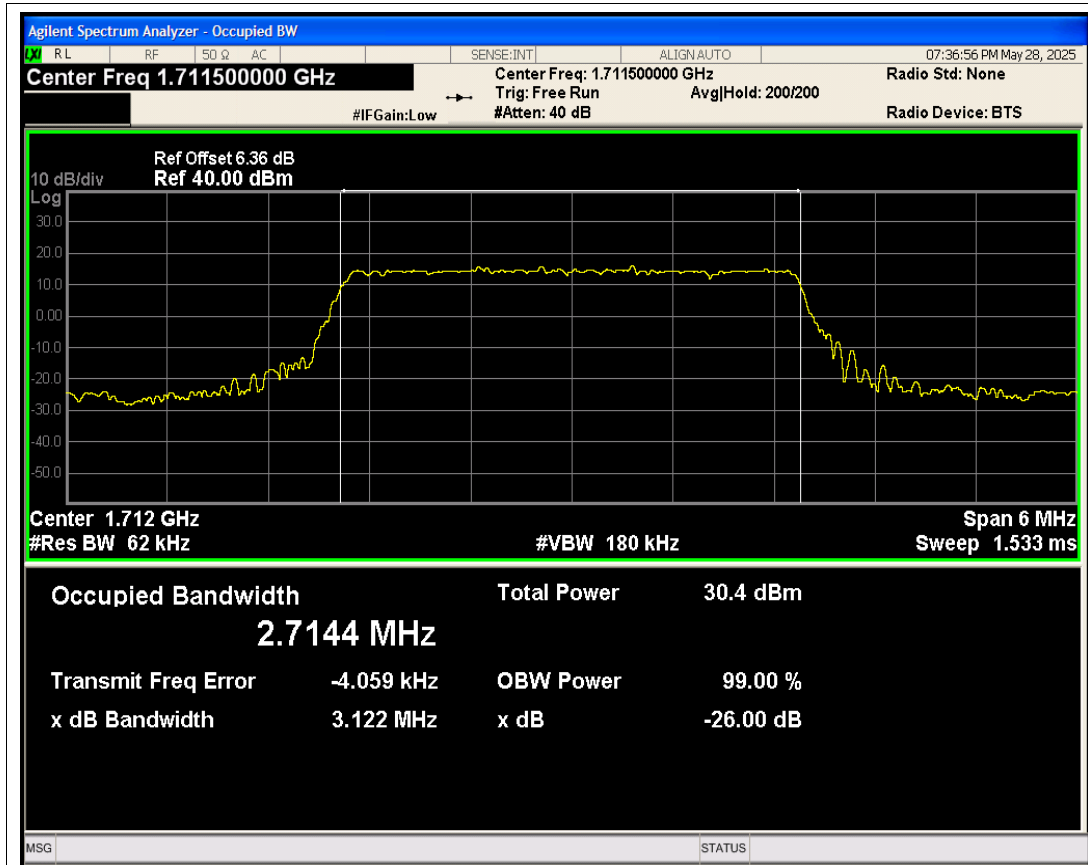




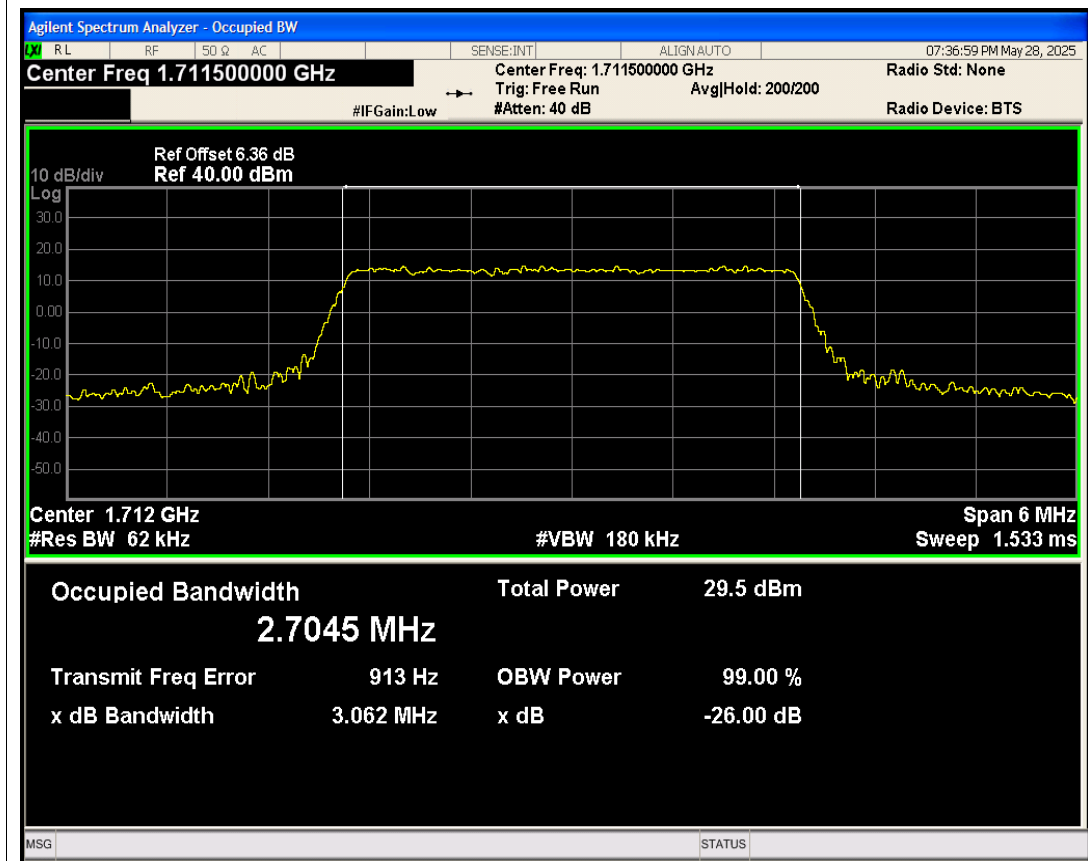
Band4 16QAM BW=1.4MHz Channel=20175 RB Size=6 Position=#0 NVNT





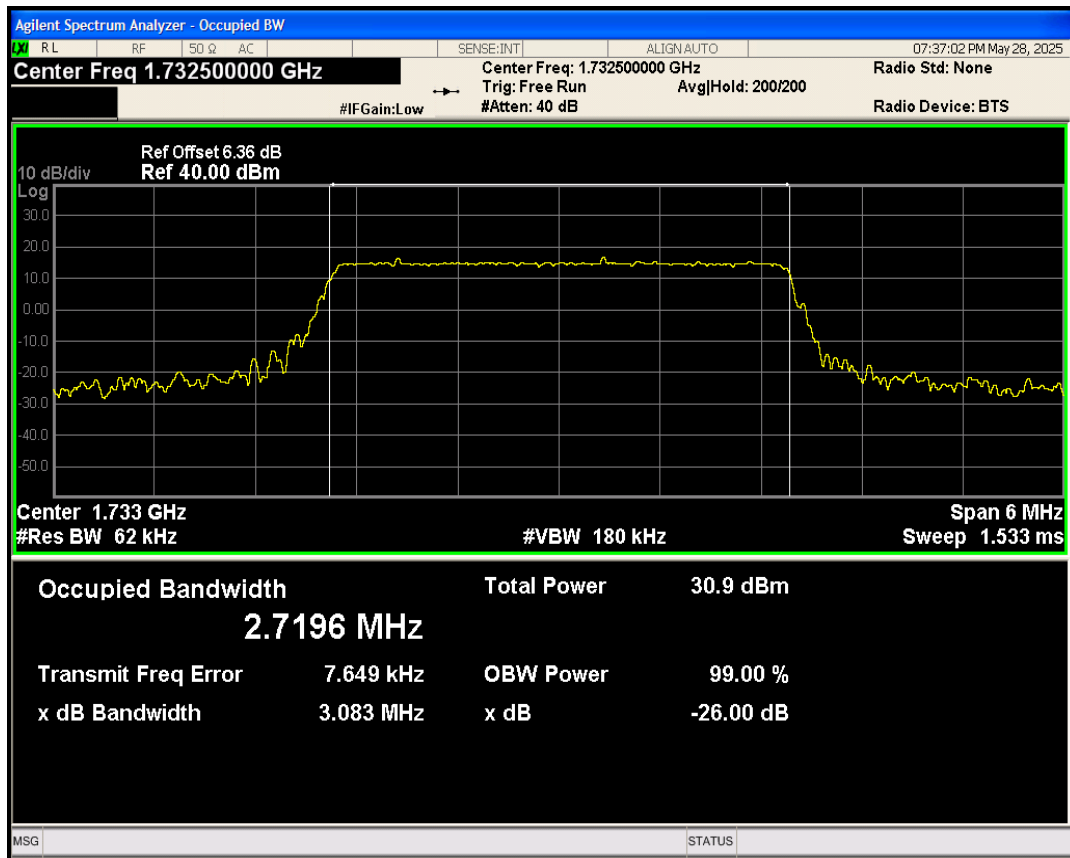


Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0 NVNT

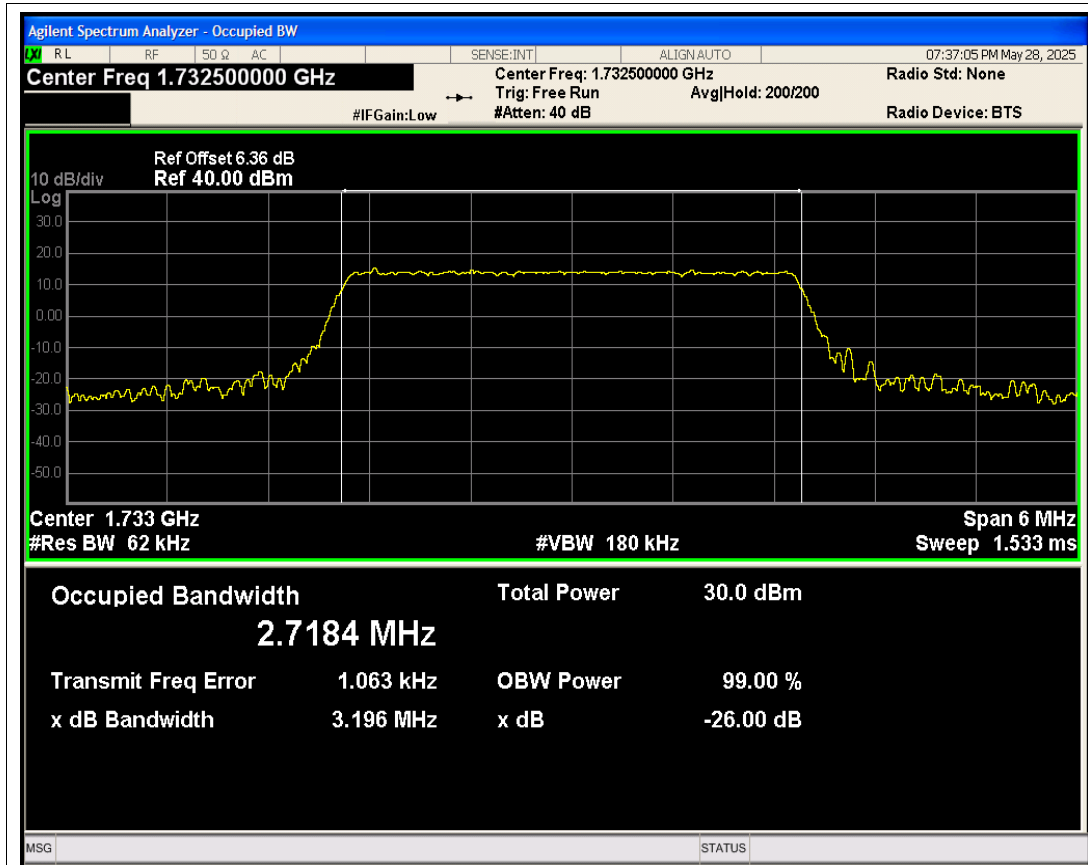




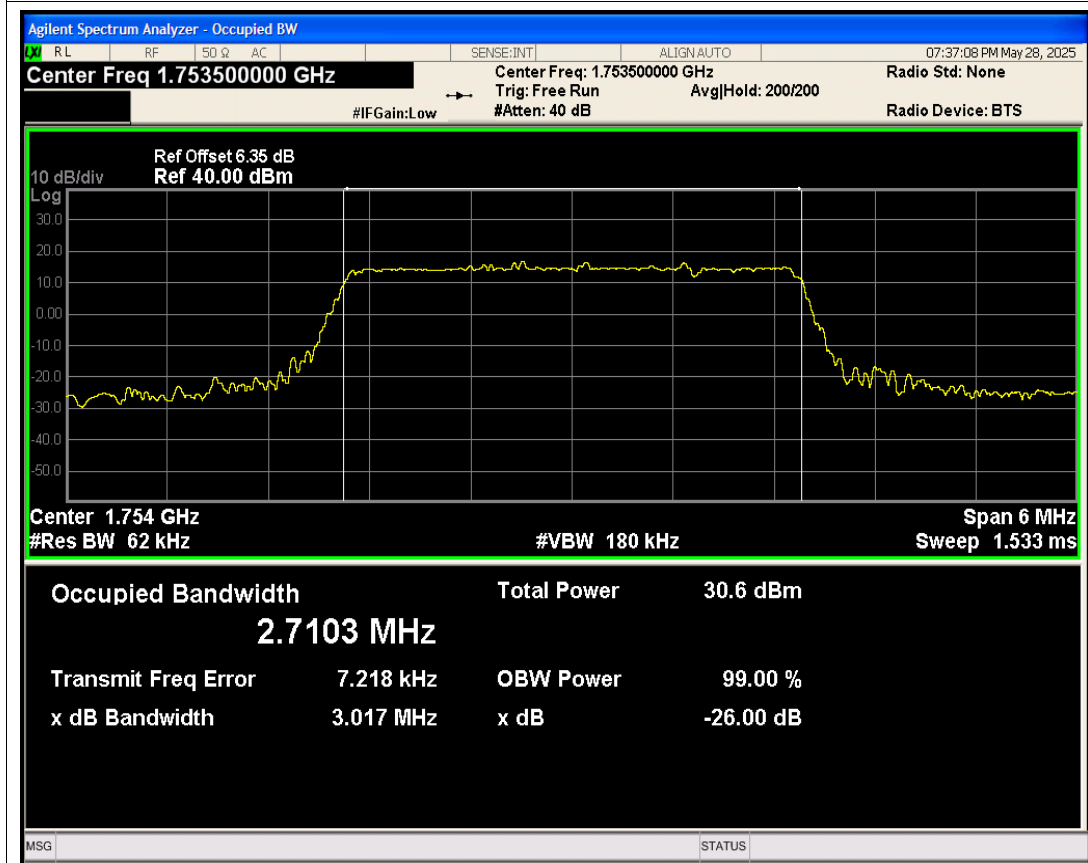
Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0 NVNT

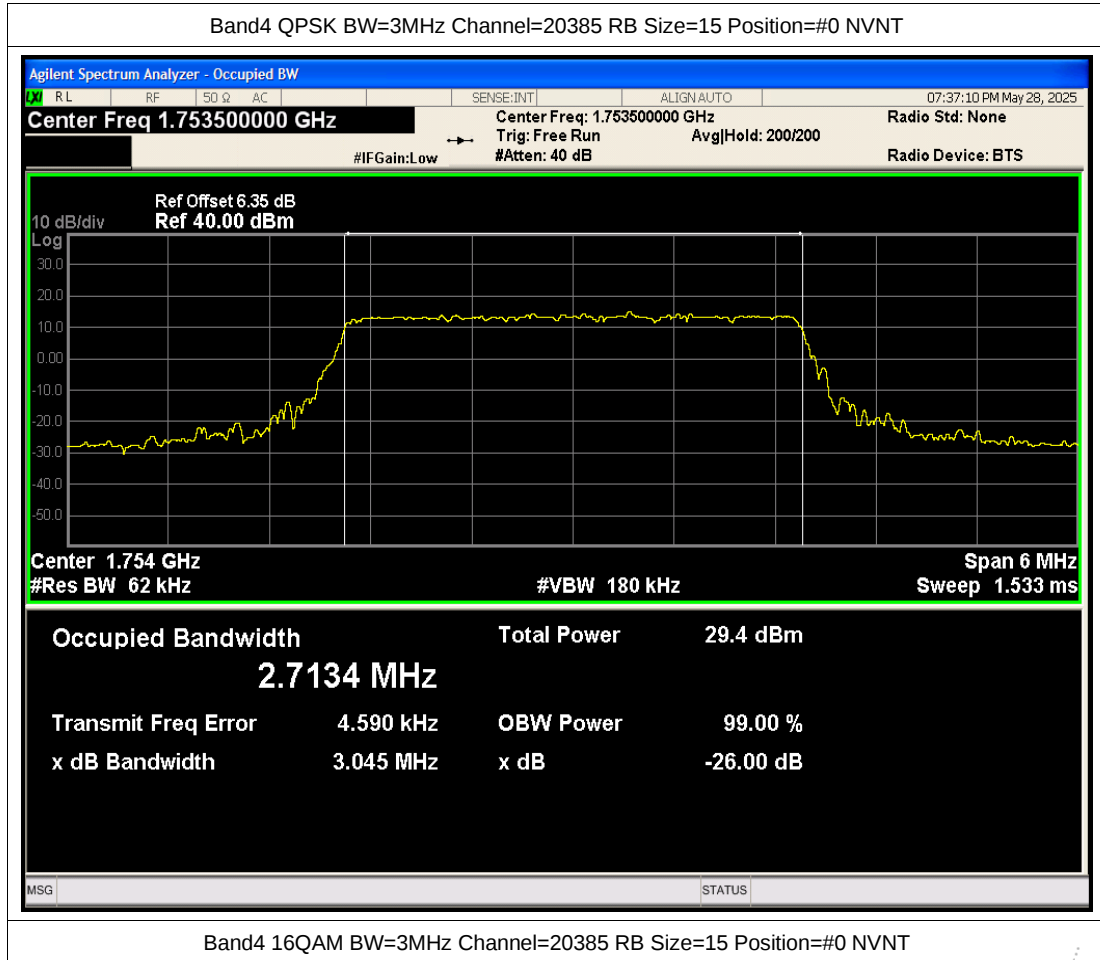


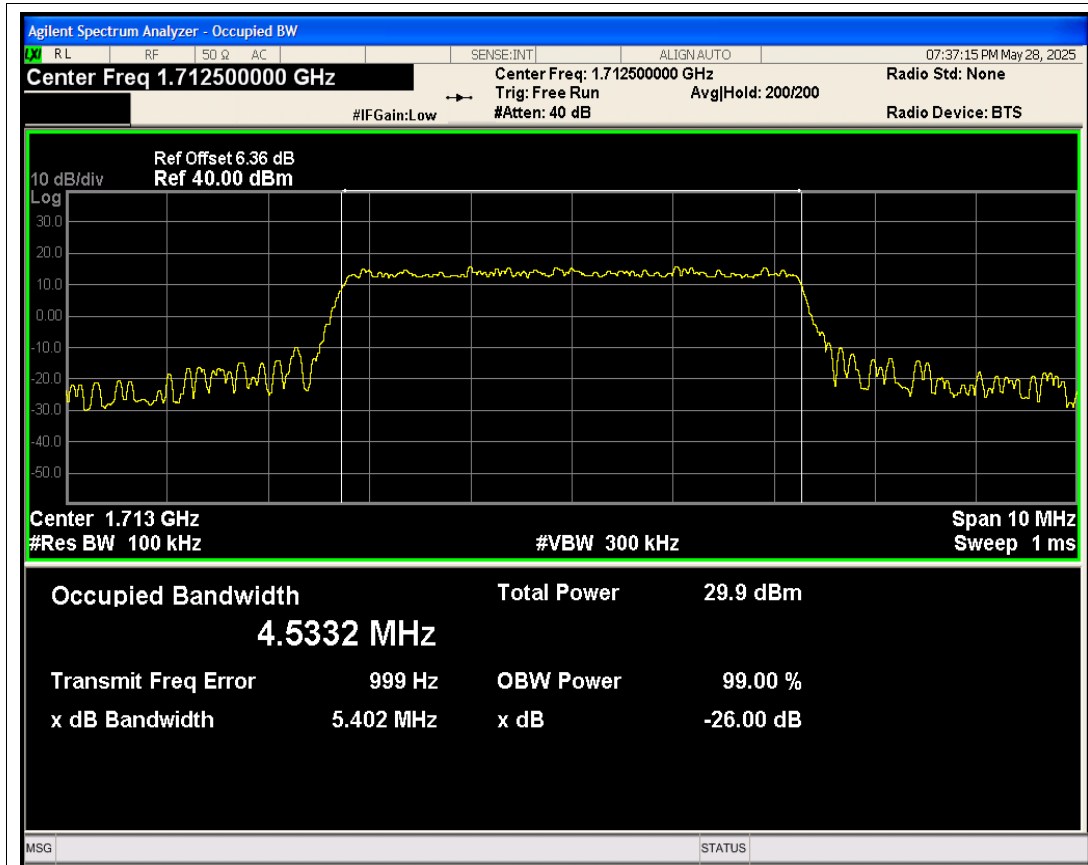
Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0 NVNT



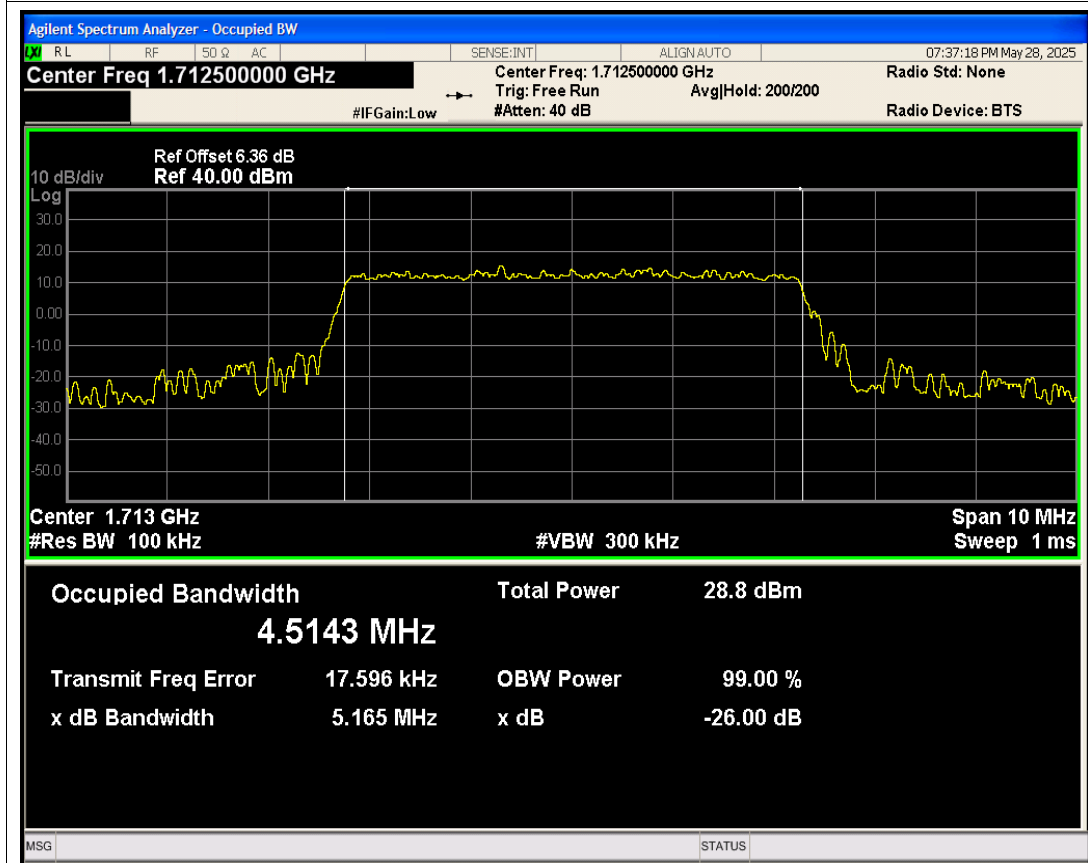
Band4 16QAM BW=3MHz Channel=20175 RB Size=15 Position=#0 NVNT

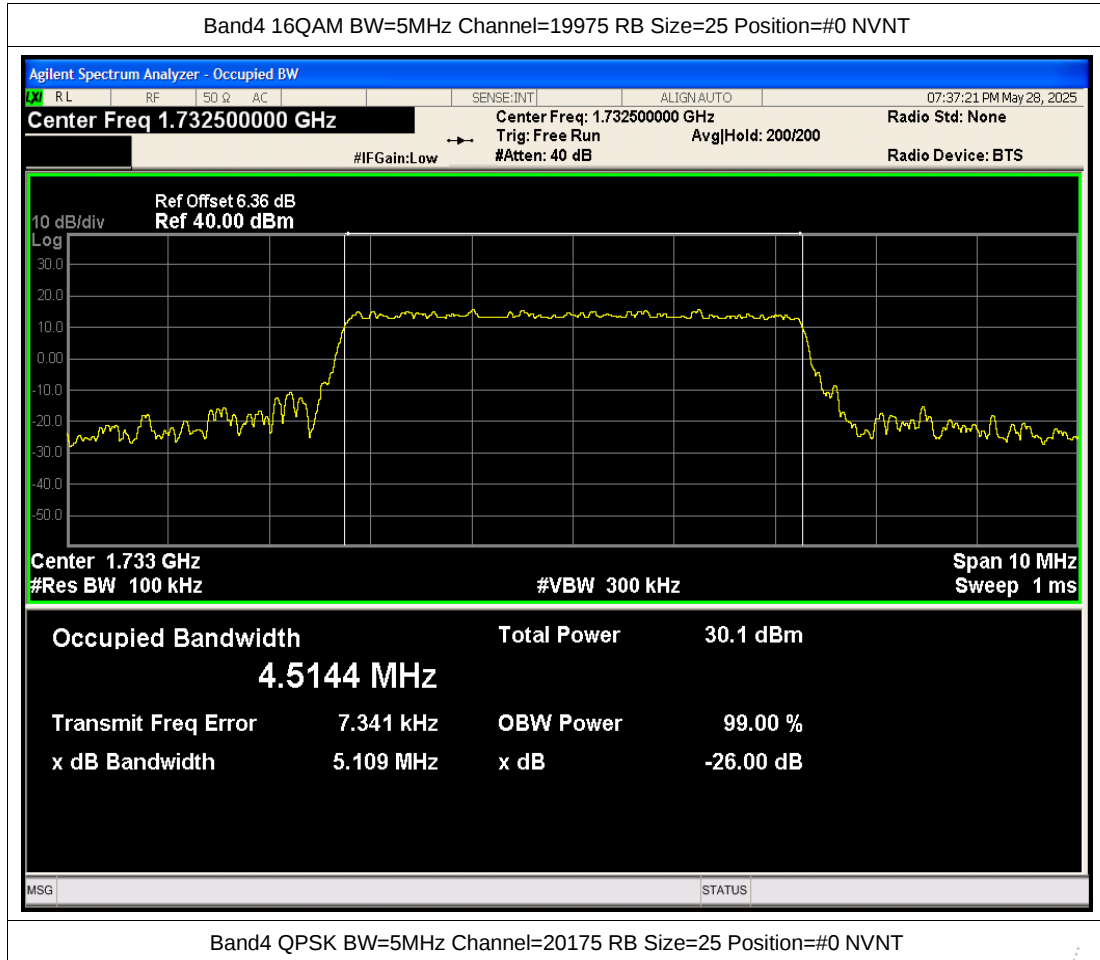


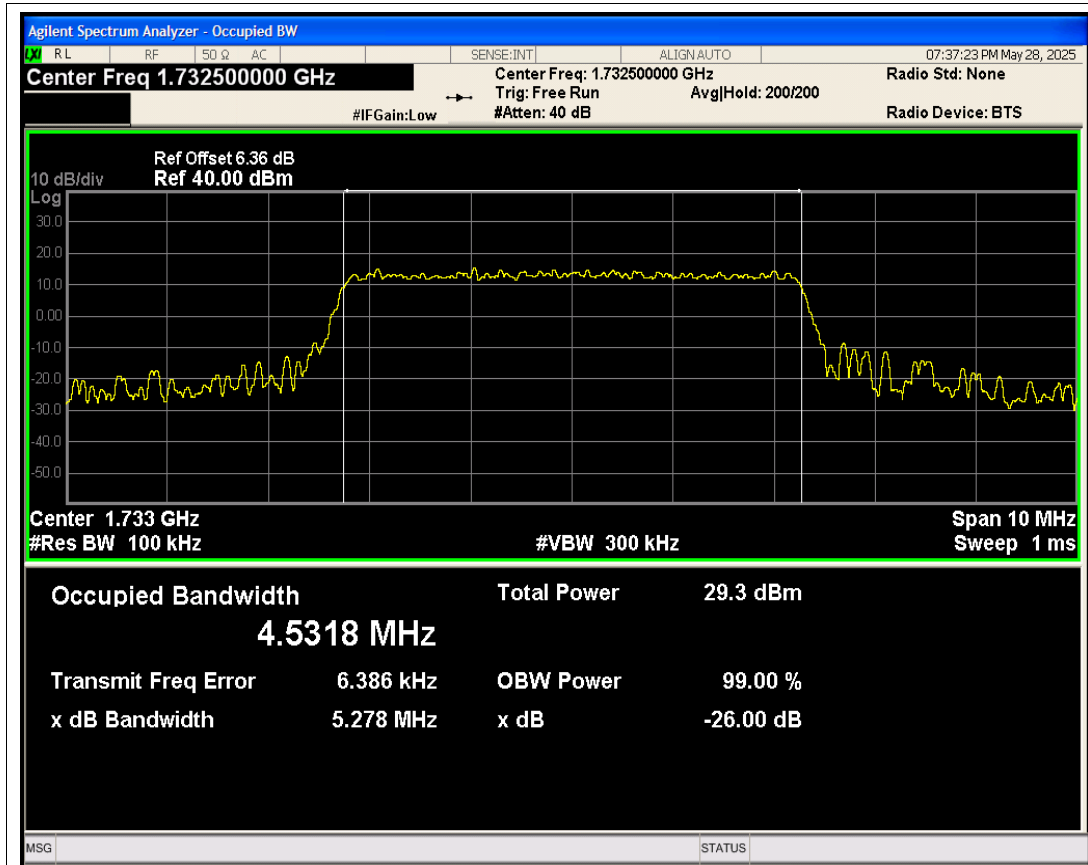




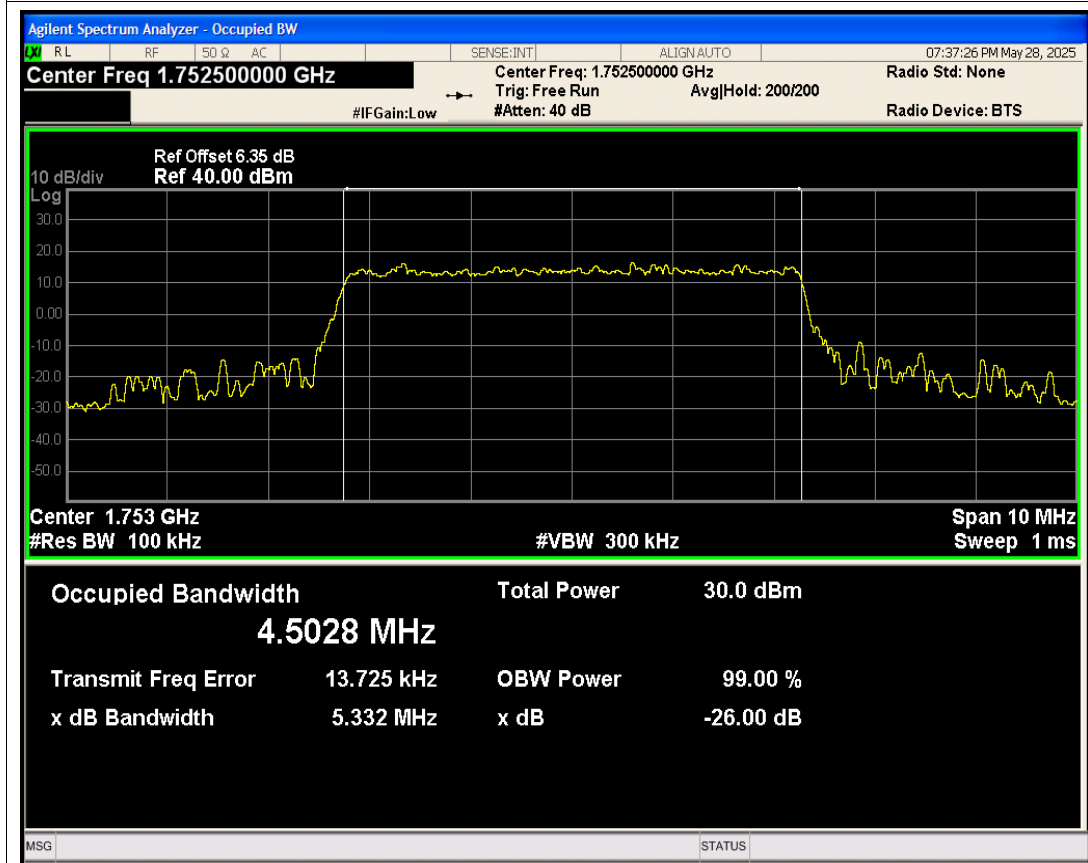
Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0 NVNT

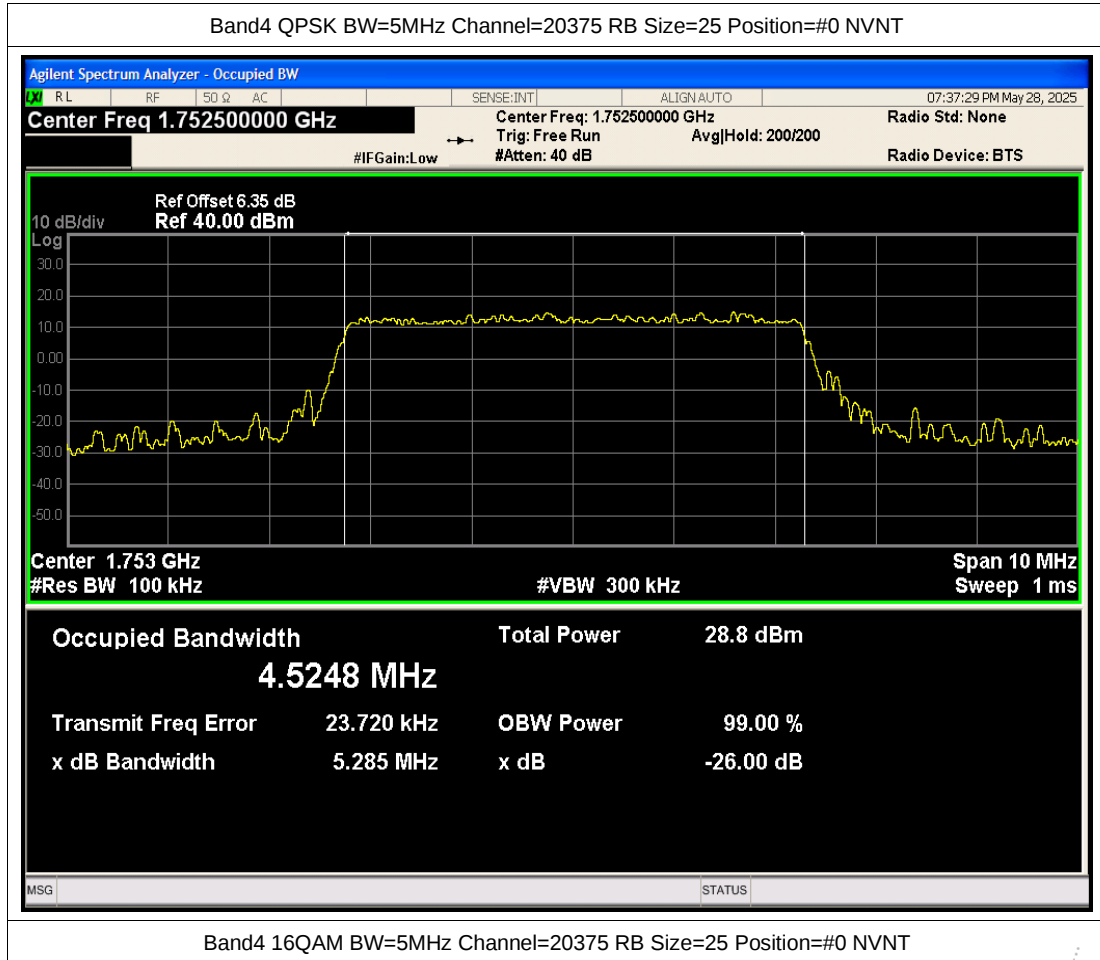


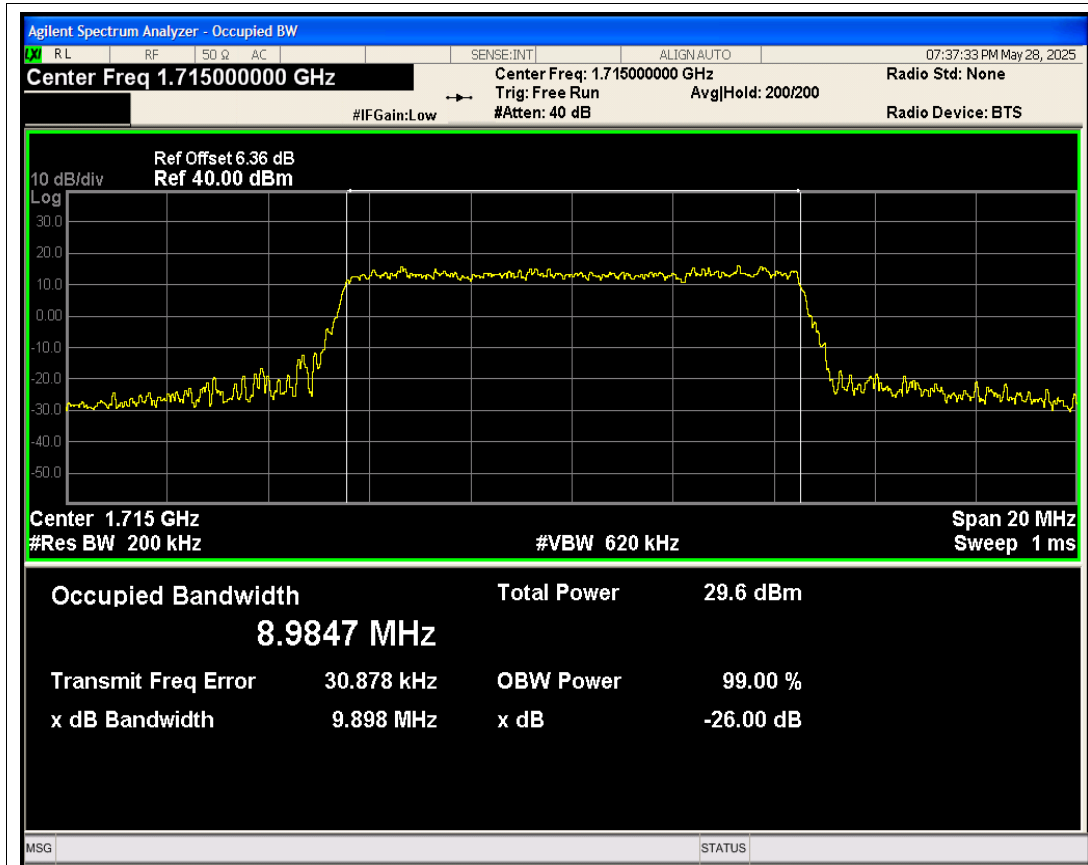




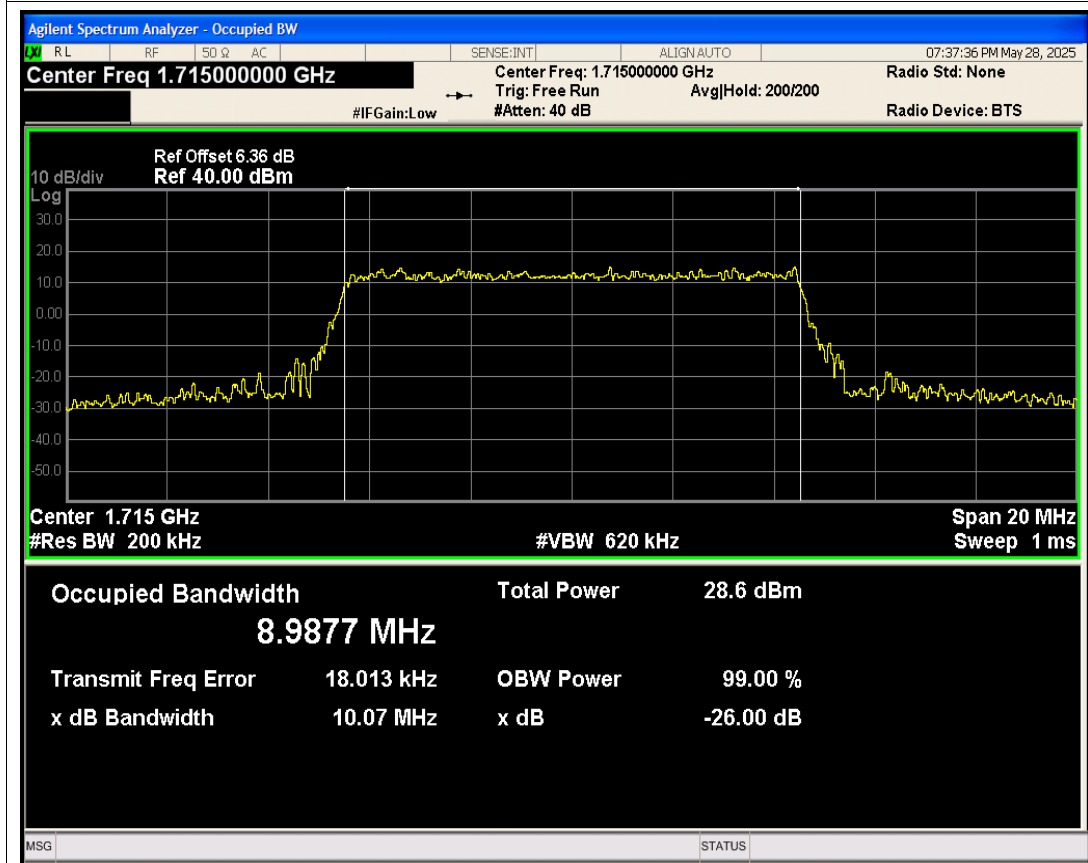
Band4 16QAM BW=5MHz Channel=20175 RB Size=25 Position=#0 NVNT

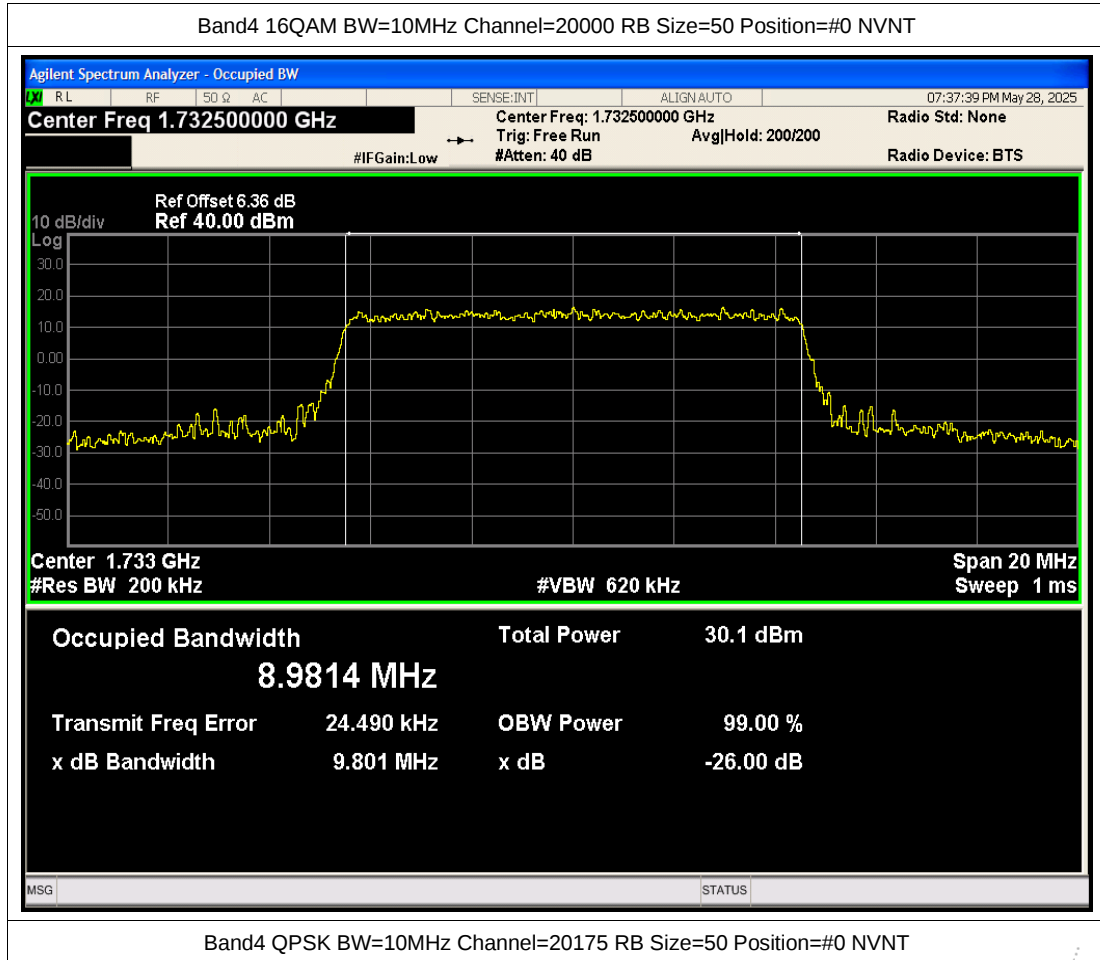


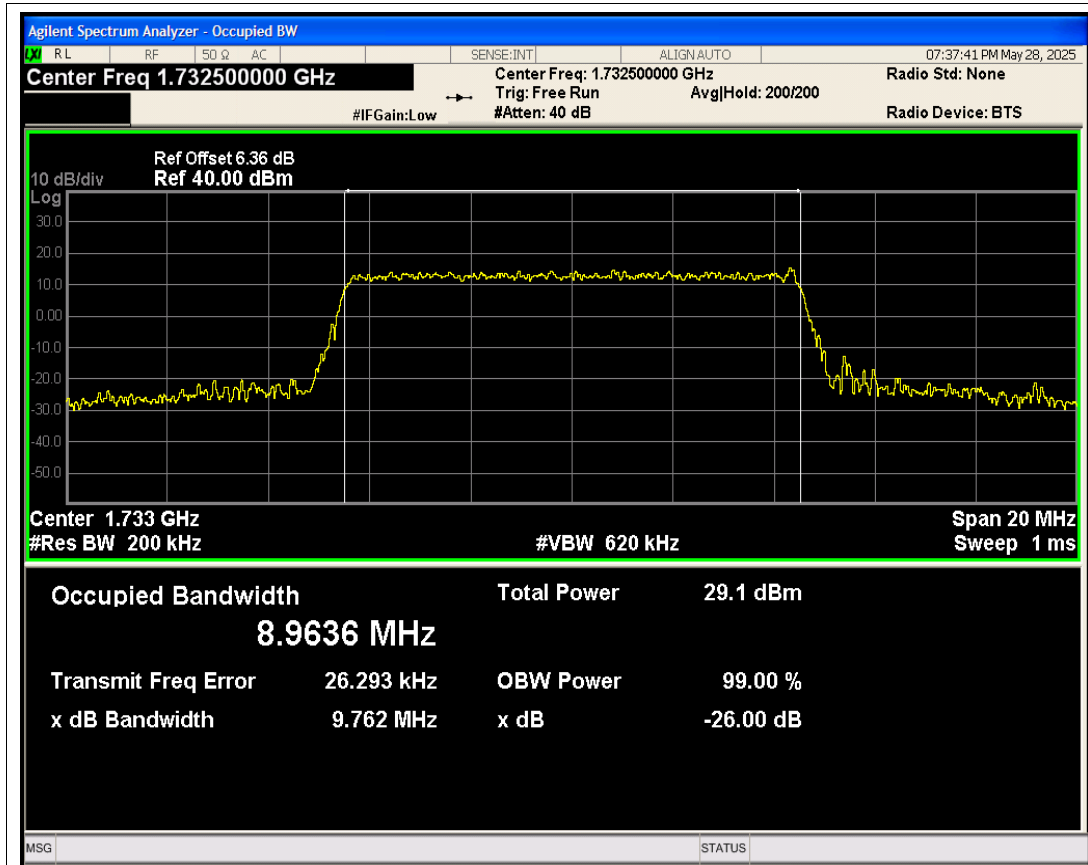




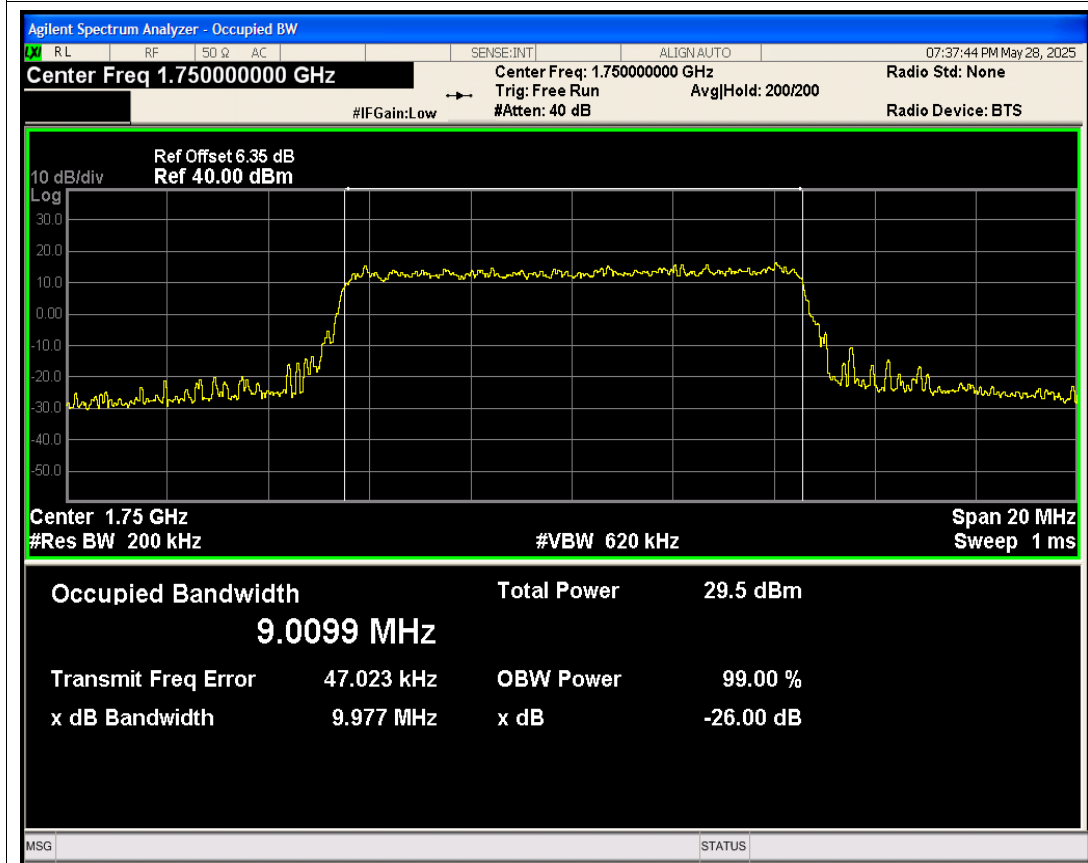
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0 NVNT

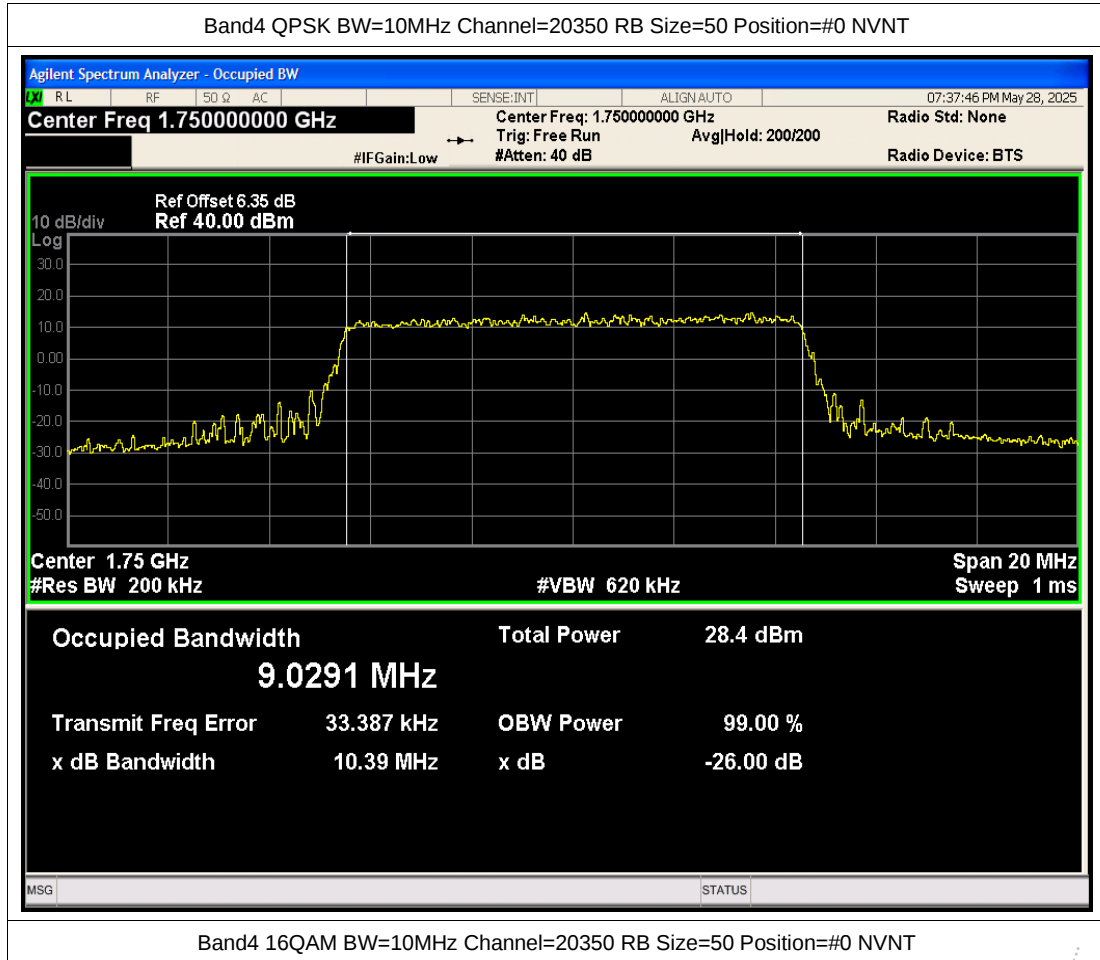


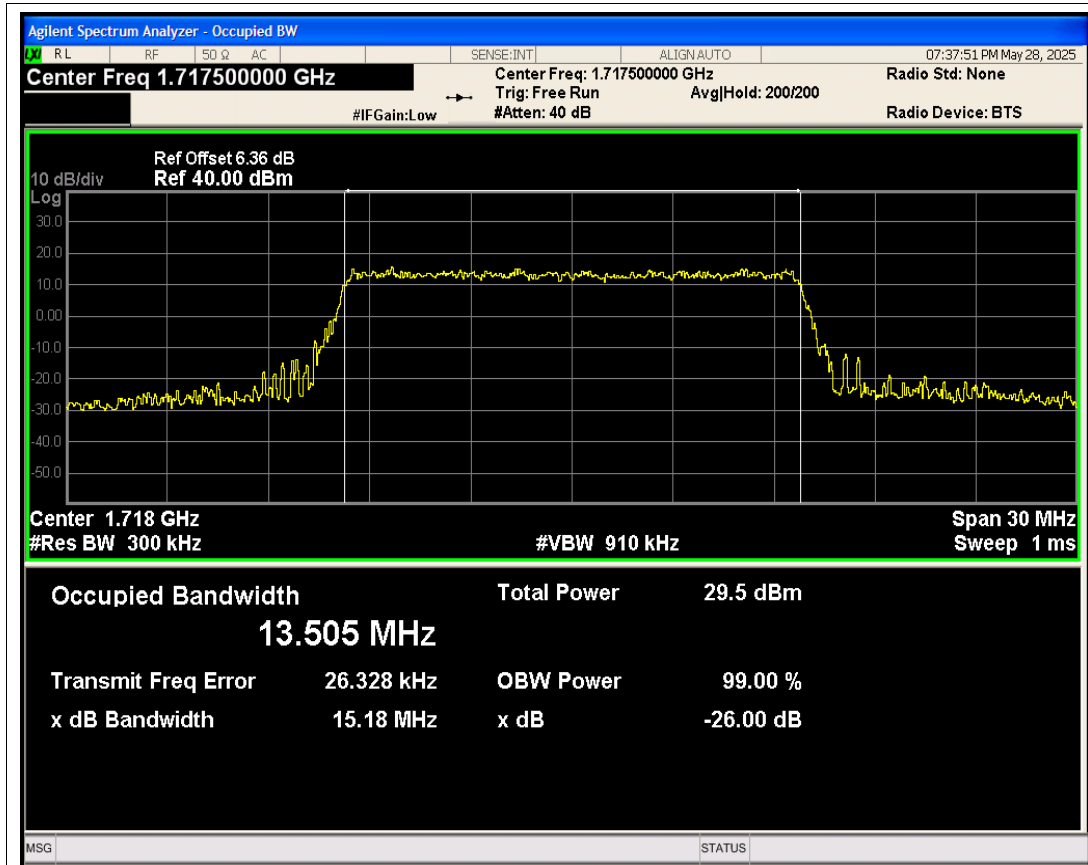




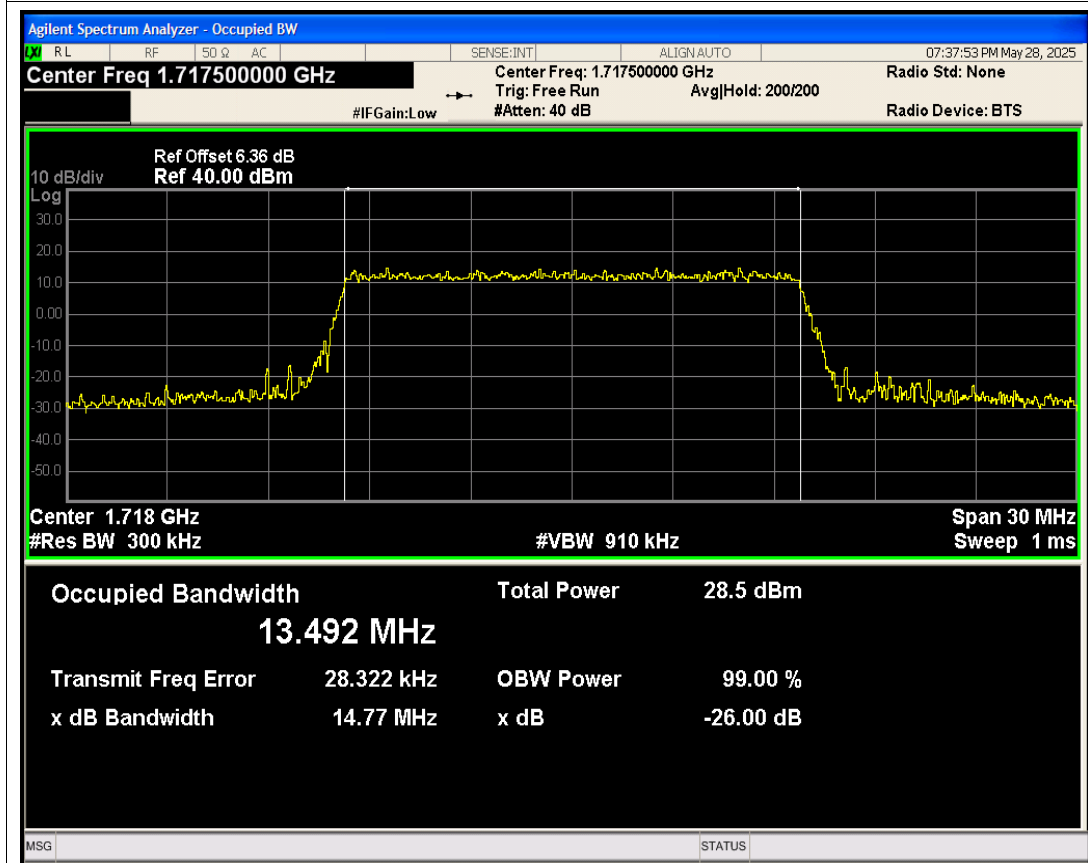
Band4 16QAM BW=10MHz Channel=20175 RB Size=50 Position=#0 NVNT

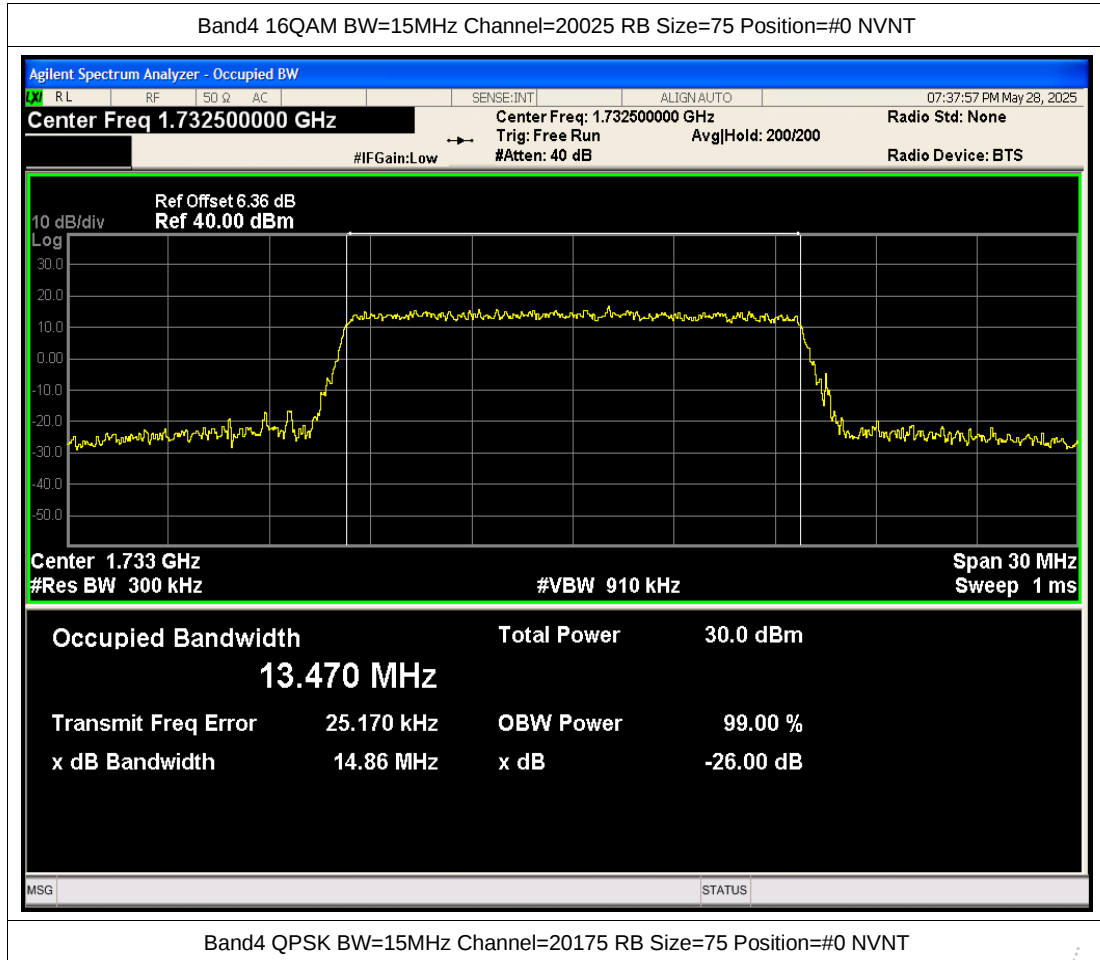


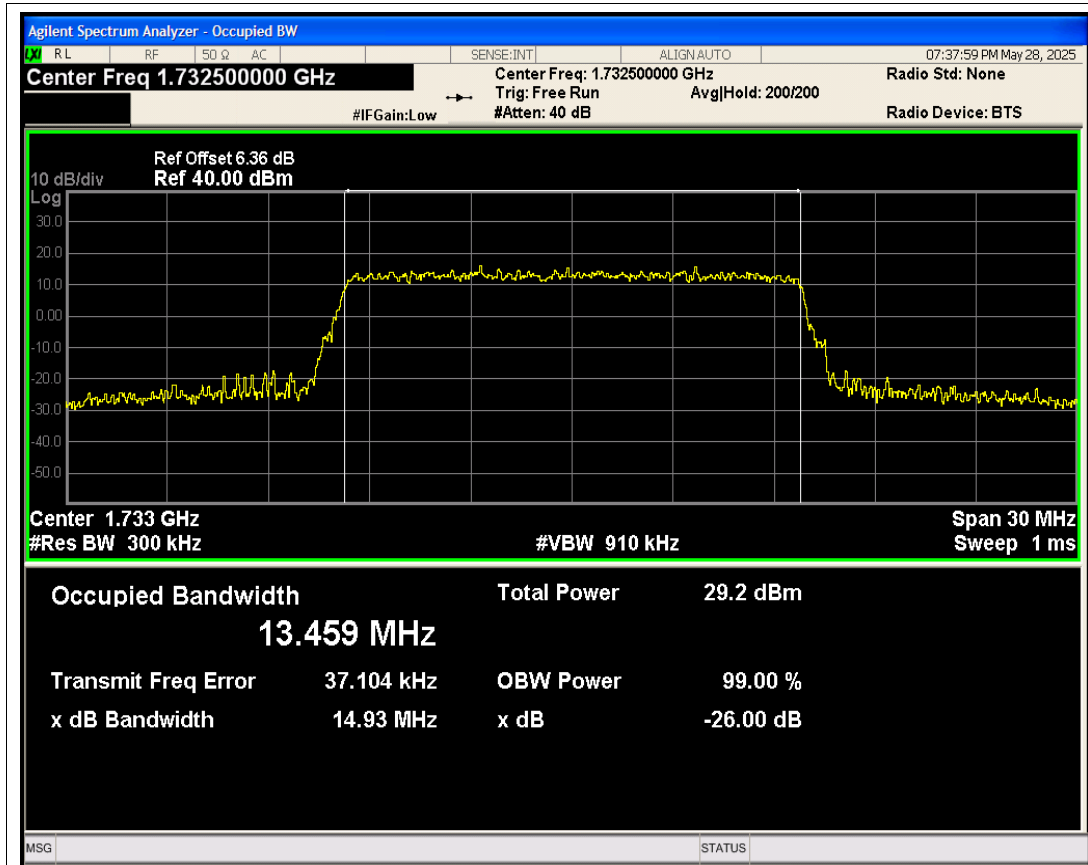




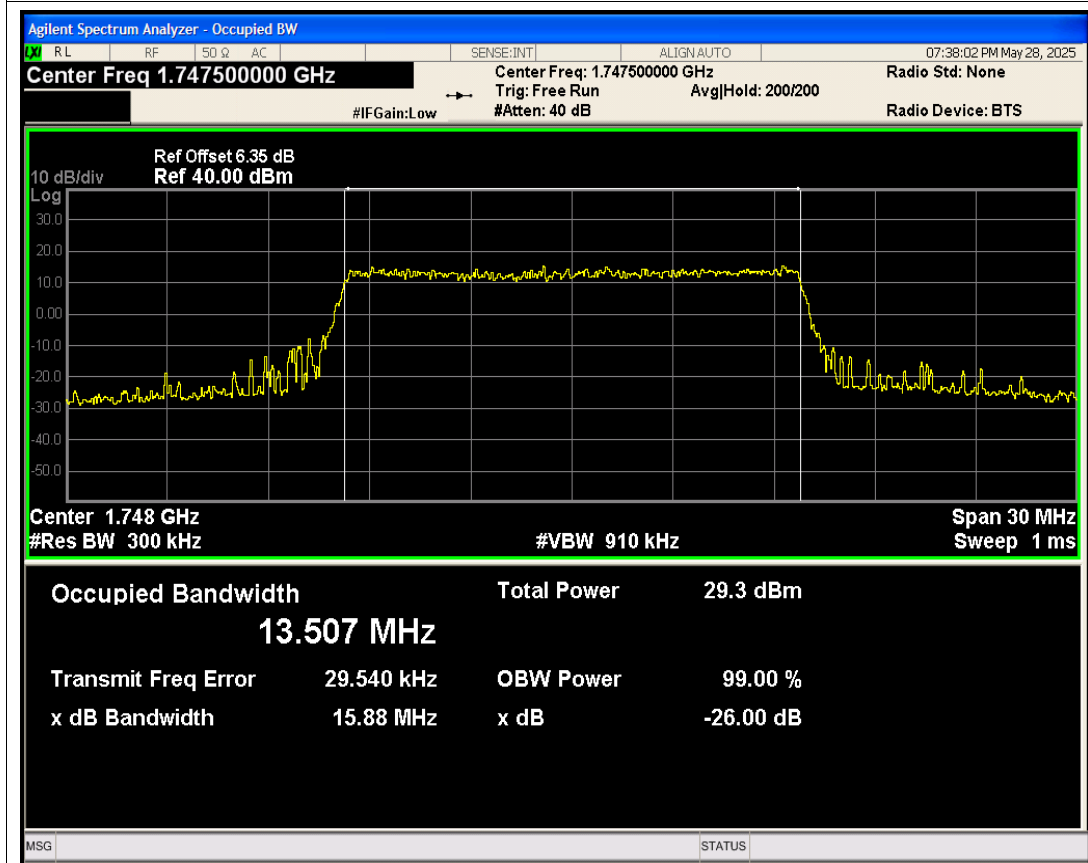
Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0 NVNT





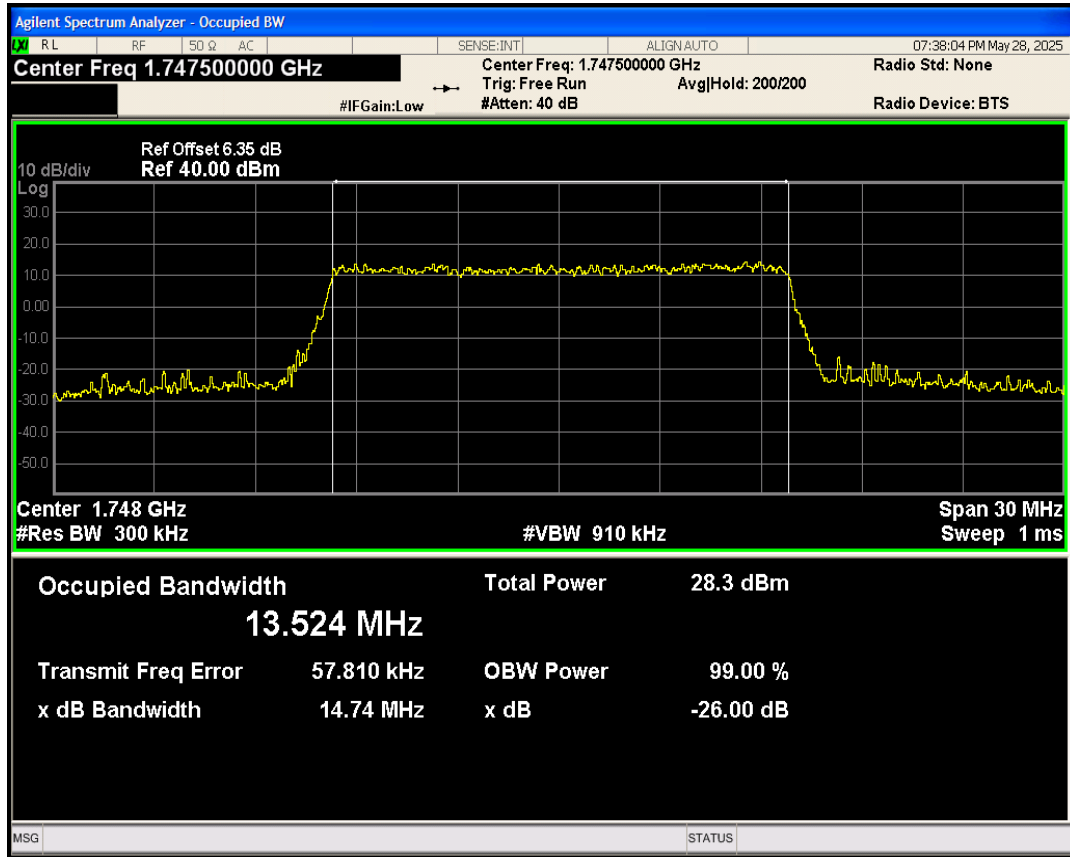


Band4 16QAM BW=15MHz Channel=20175 RB Size=75 Position=#0 NVNT

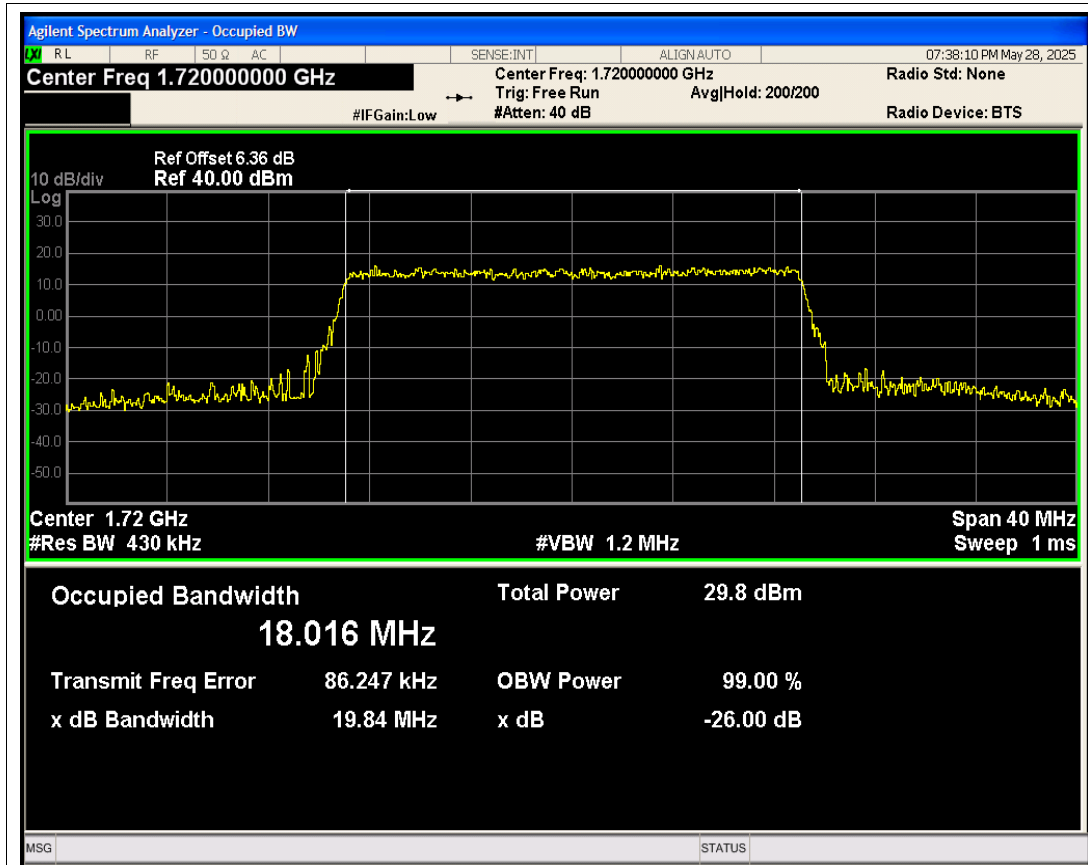




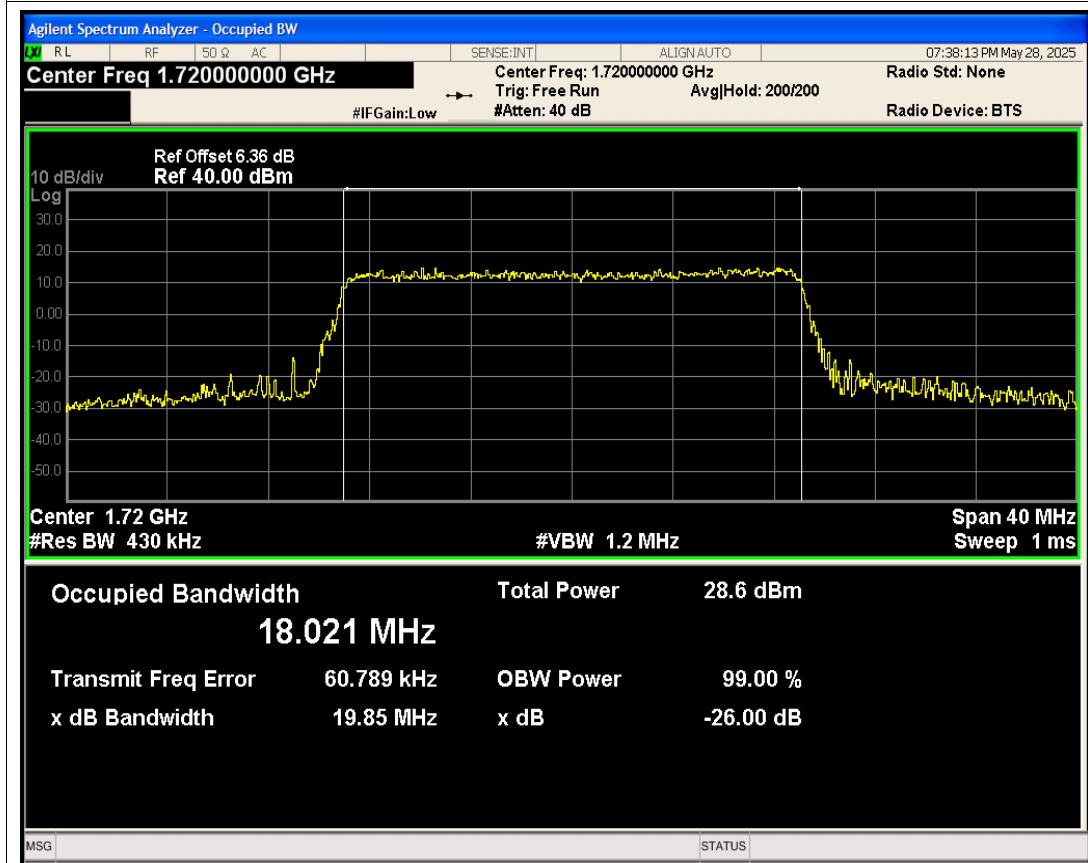
Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0 NVNT

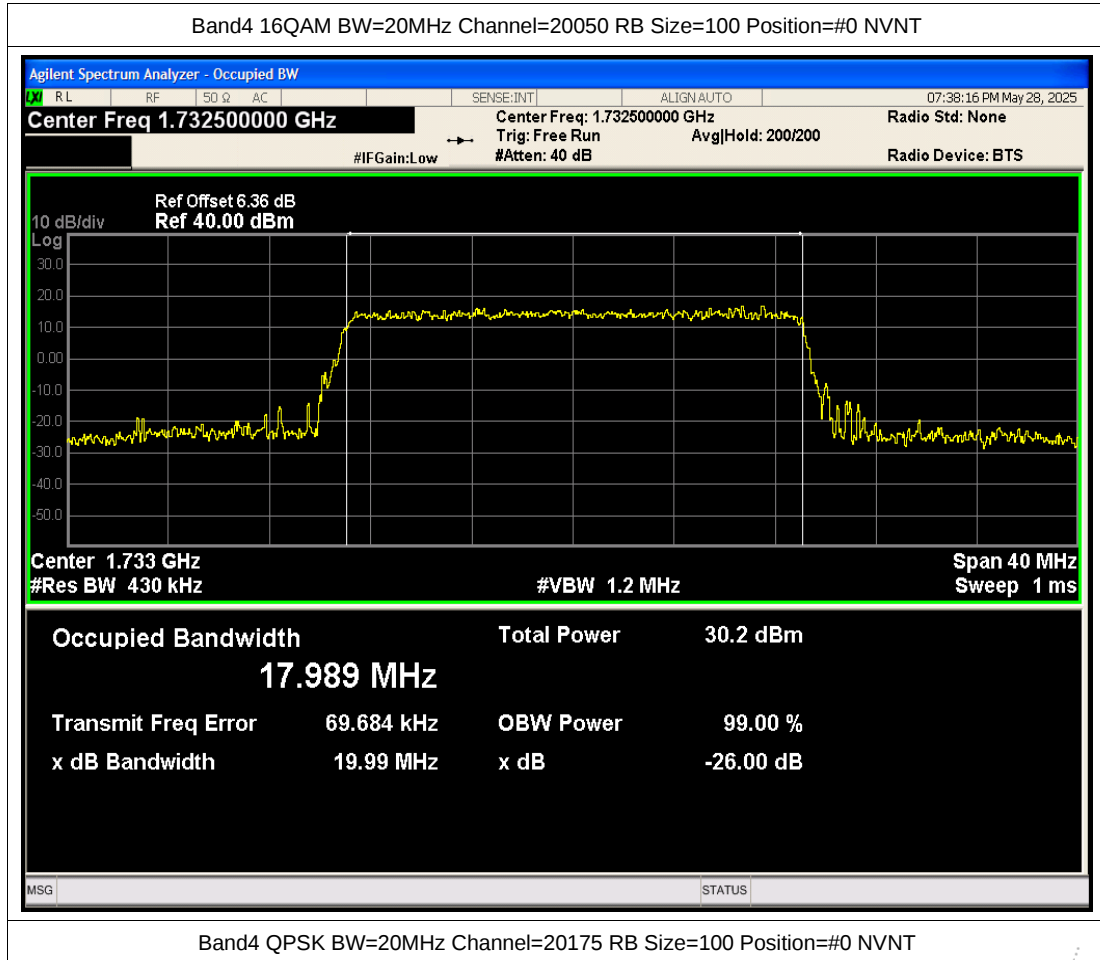


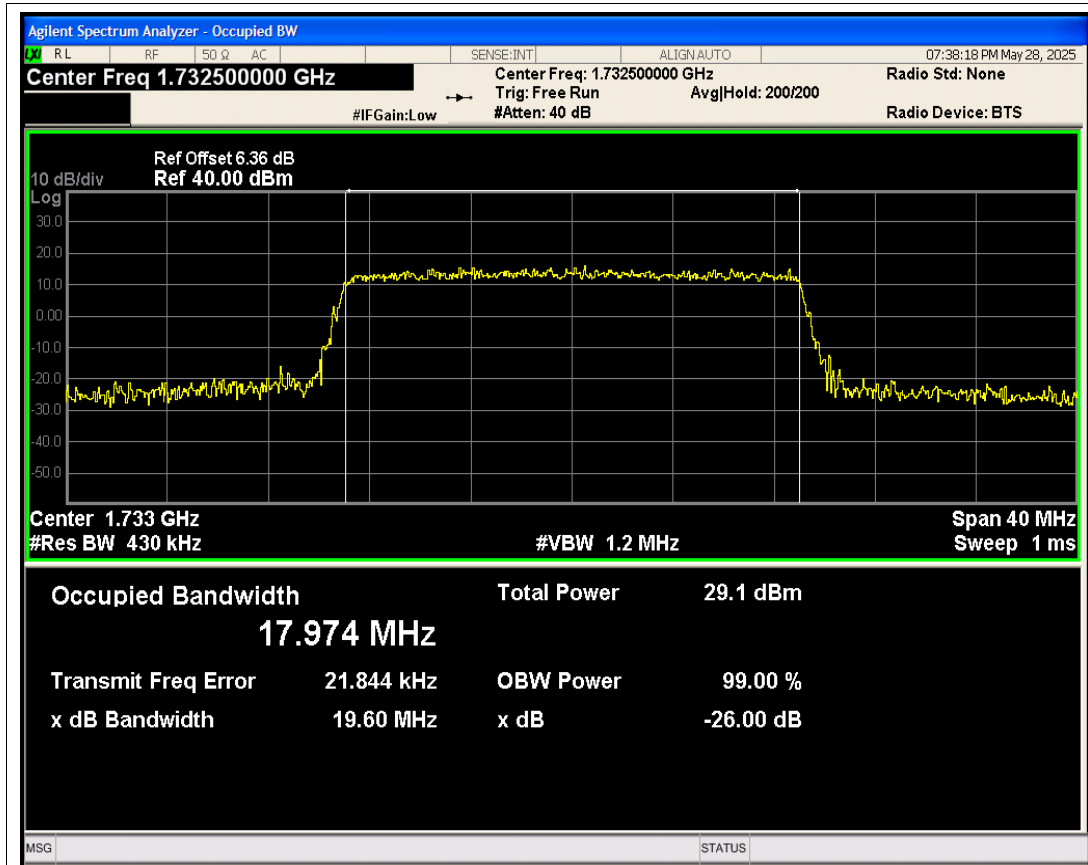
Band4 16QAM BW=15MHz Channel=20325 RB Size=75 Position=#0 NVNT



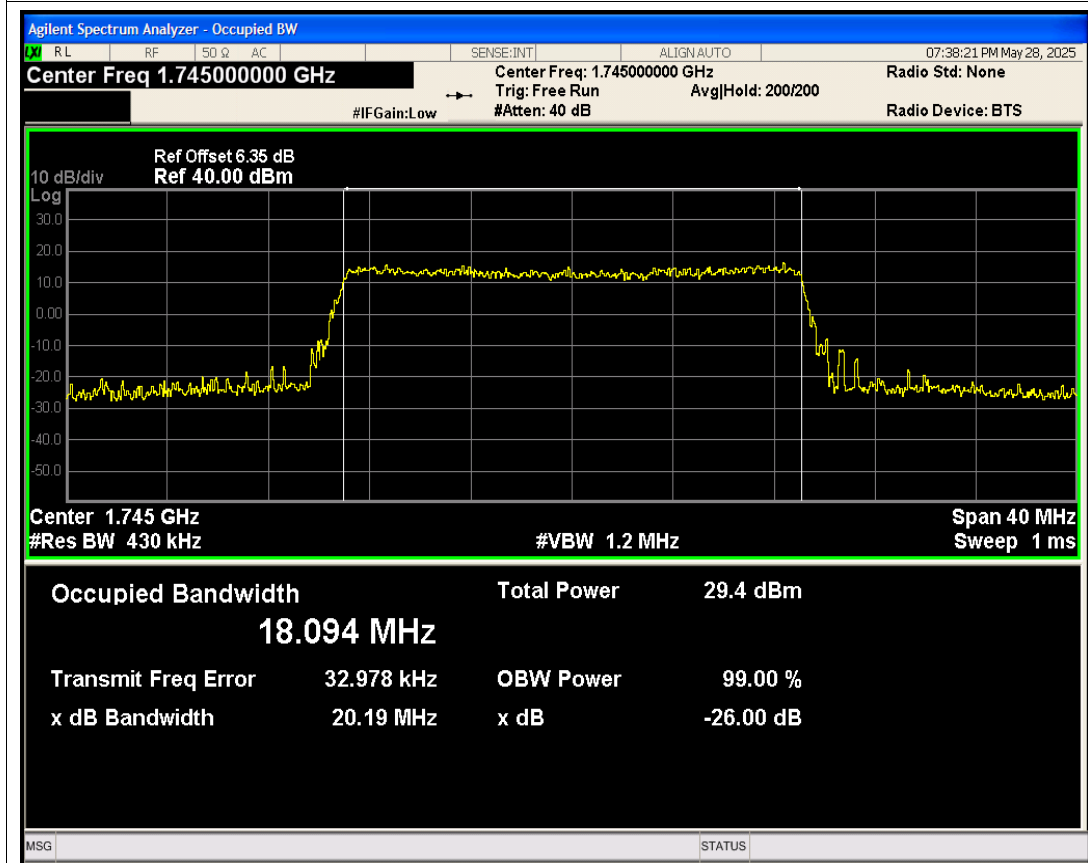
Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0 NVNT

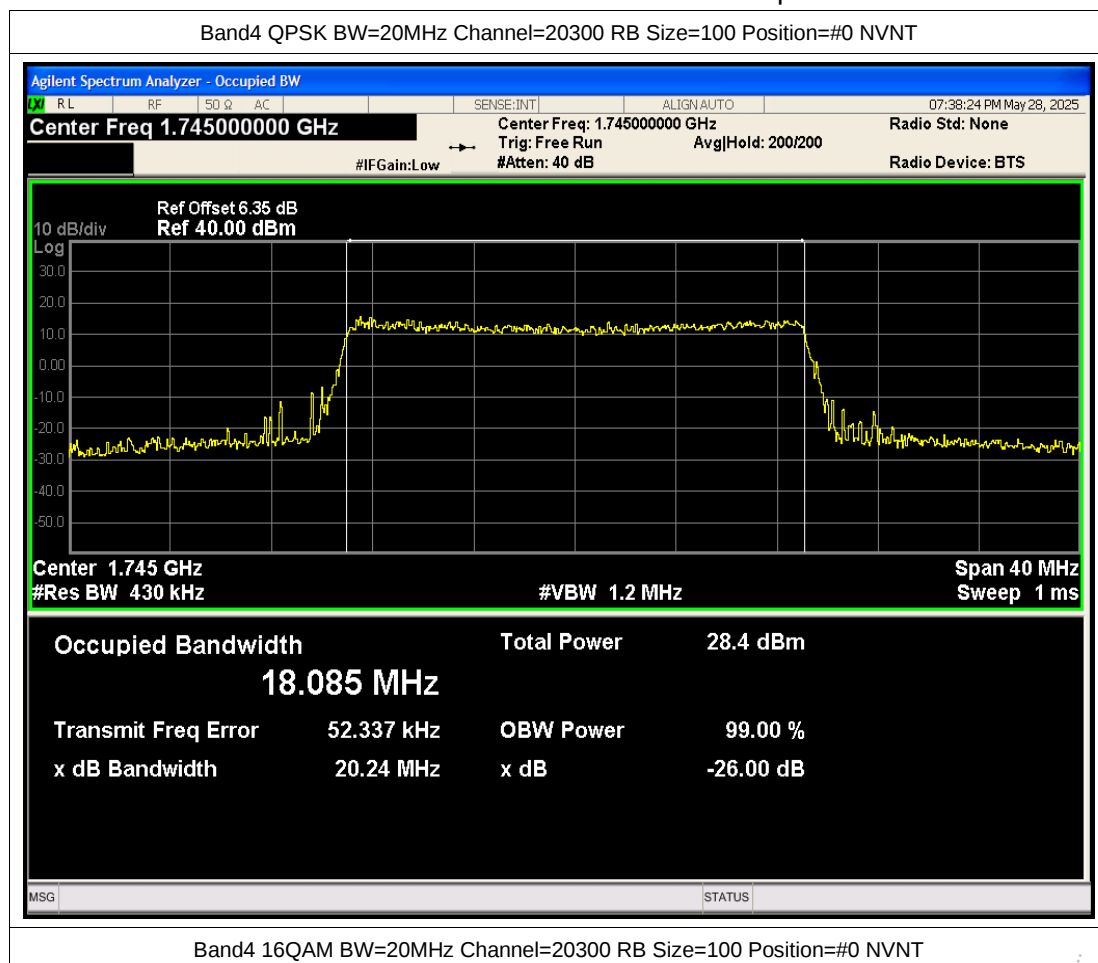






Band4 16QAM BW=20MHz Channel=20175 RB Size=100 Position=#0 NVNT

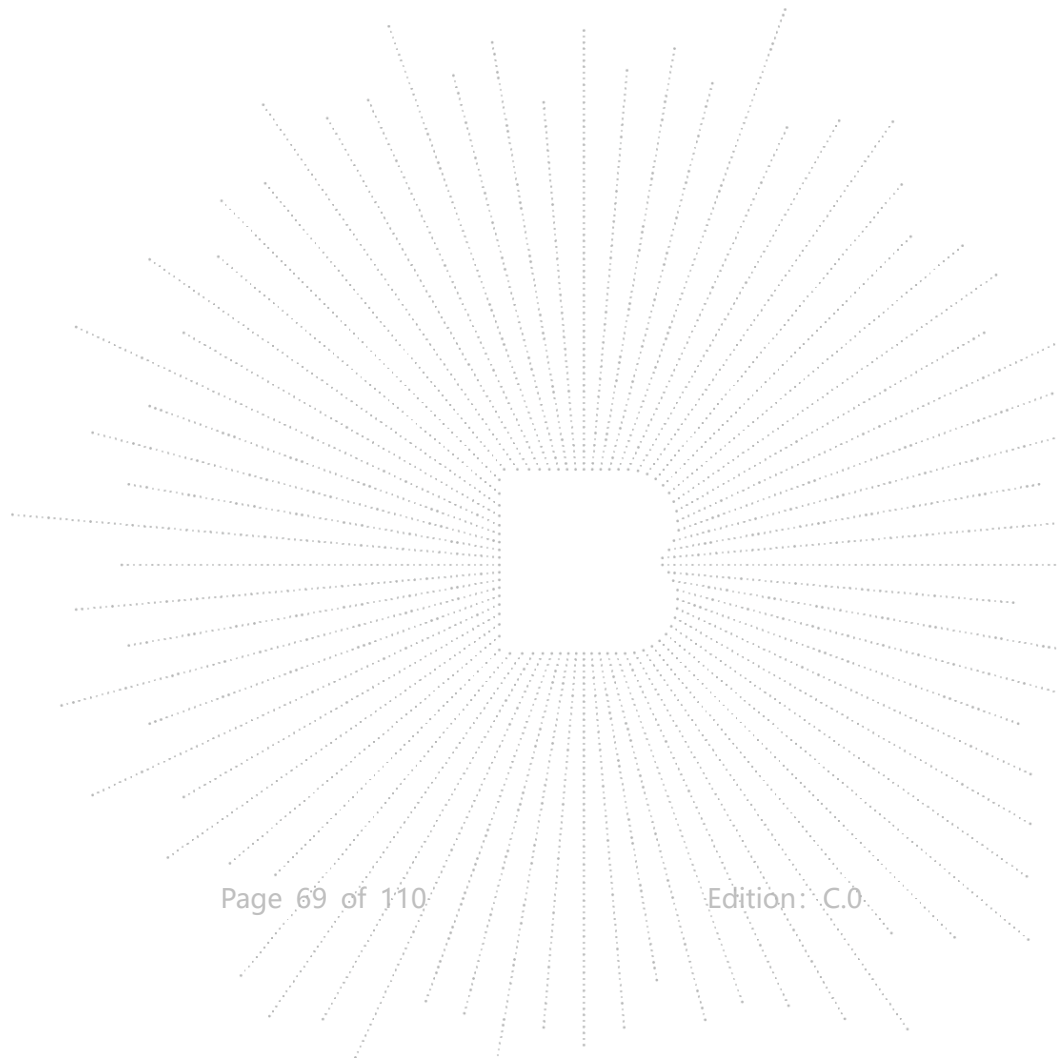


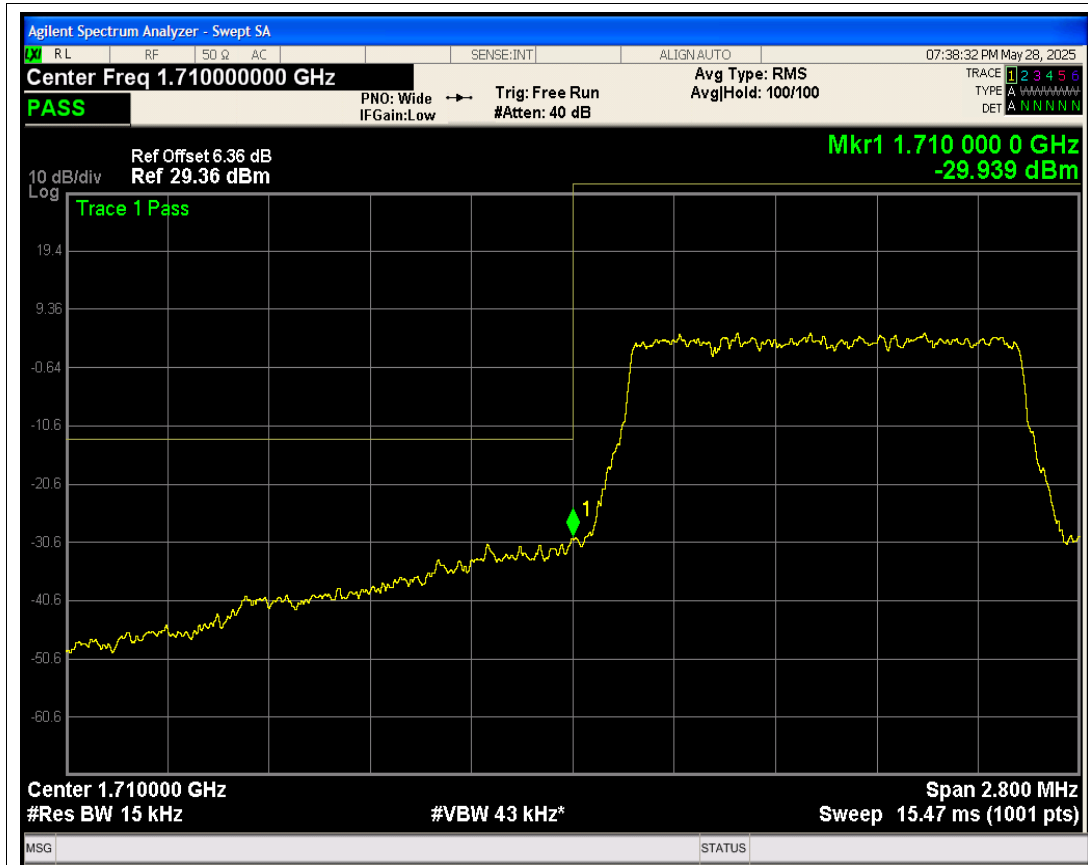


Appendix 5. Band edge

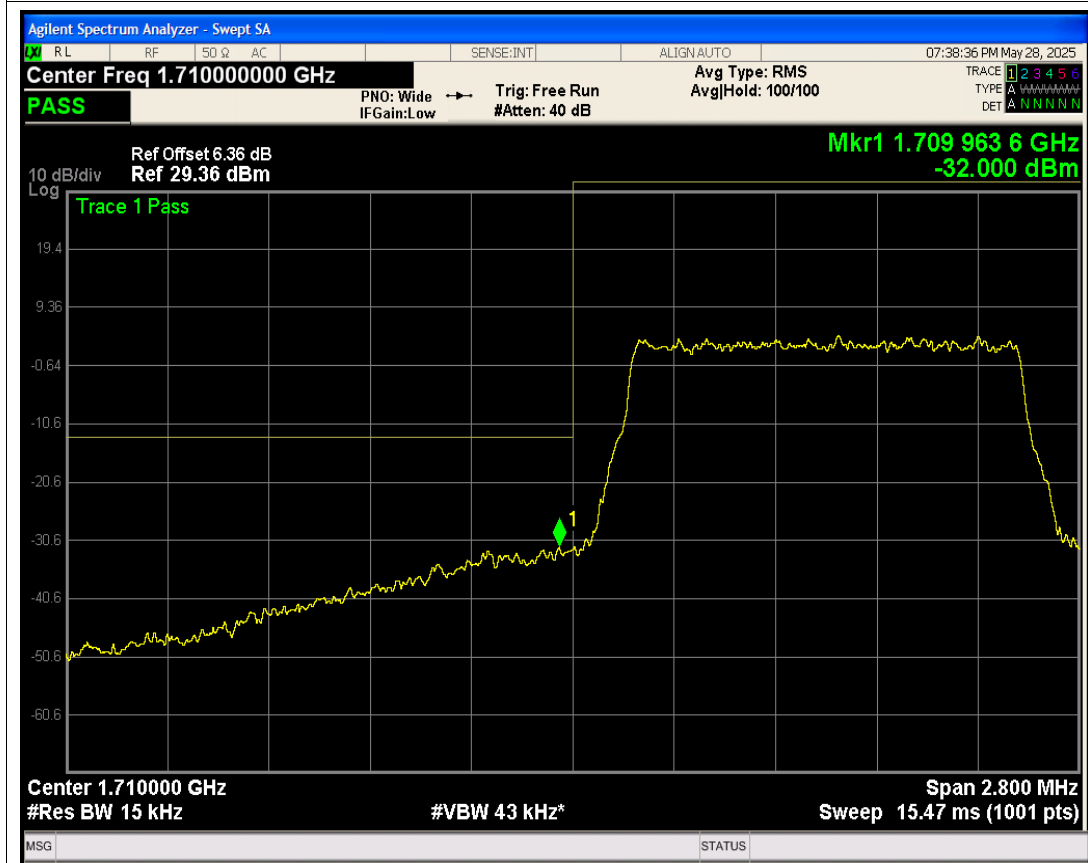
Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	Band4	1.4	19957	6	#0	QPSK	1710.00	-29.93	-13	PASS
NVNT	Band4	1.4	19957	6	#0	16QAM	1709.96	-31.99	-13	PASS
NVNT	Band4	1.4	20393	6	#0	QPSK	1755.04	-30.44	-13	PASS
NVNT	Band4	1.4	20393	6	#0	16QAM	1755.01	-31.46	-13	PASS
NVNT	Band4	3	19965	15	#0	QPSK	1710.00	-24.26	-13	PASS
NVNT	Band4	3	19965	15	#0	16QAM	1709.99	-24.83	-13	PASS
NVNT	Band4	3	20385	15	#0	QPSK	1755.00	-25.51	-13	PASS
NVNT	Band4	3	20385	15	#0	16QAM	1755.01	-25.01	-13	PASS
NVNT	Band4	5	19975	25	#0	QPSK	1710.00	-29.67	-13	PASS
NVNT	Band4	5	19975	25	#0	16QAM	1710.00	-30.42	-13	PASS
NVNT	Band4	5	20375	25	#0	QPSK	1755.00	-28.71	-13	PASS
NVNT	Band4	5	20375	25	#0	16QAM	1755.00	-27.48	-13	PASS
NVNT	Band4	10	20000	50	#0	QPSK	1709.98	-32.55	-13	PASS
NVNT	Band4	10	20000	50	#0	16QAM	1710.00	-33.15	-13	PASS

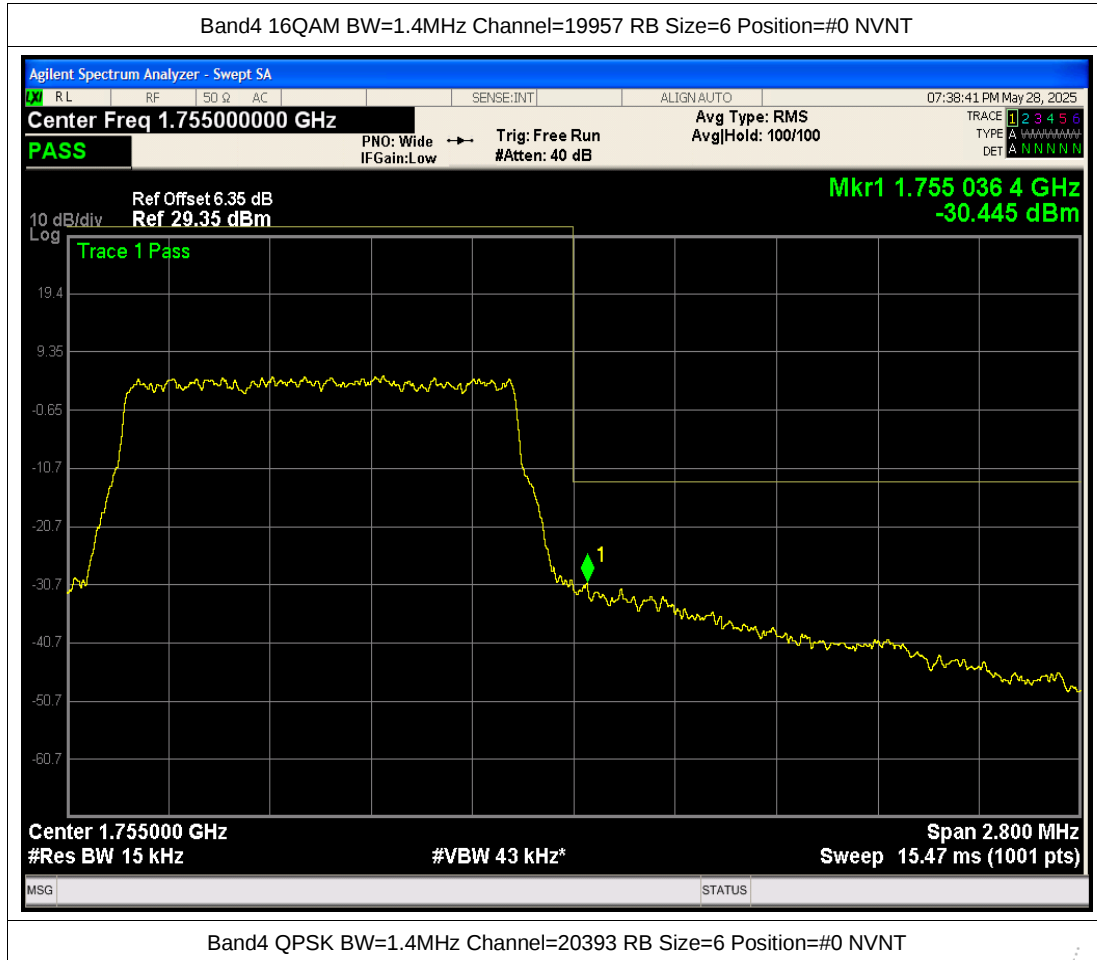
NVNT	Band4	10	20350	50	#0	QPSK	1755.06	-30.99	-13	PASS
NVNT	Band4	10	20350	50	#0	16QAM	1755.00	-32.24	-13	PASS
NVNT	Band4	15	20025	75	#0	QPSK	1709.97	-32.34	-13	PASS
NVNT	Band4	15	20025	75	#0	16QAM	1710.00	-32.41	-13	PASS
NVNT	Band4	15	20325	75	#0	QPSK	1755.00	-29.89	-13	PASS
NVNT	Band4	15	20325	75	#0	16QAM	1755.00	-30.76	-13	PASS
NVNT	Band4	20	20050	100	#0	QPSK	1710.00	-35.56	-13	PASS
NVNT	Band4	20	20050	100	#0	16QAM	1710.00	-34.51	-13	PASS
NVNT	Band4	20	20300	100	#0	QPSK	1755.00	-29.31	-13	PASS
NVNT	Band4	20	20300	100	#0	16QAM	1755.00	-33.28	-13	PASS





Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0 NVNT

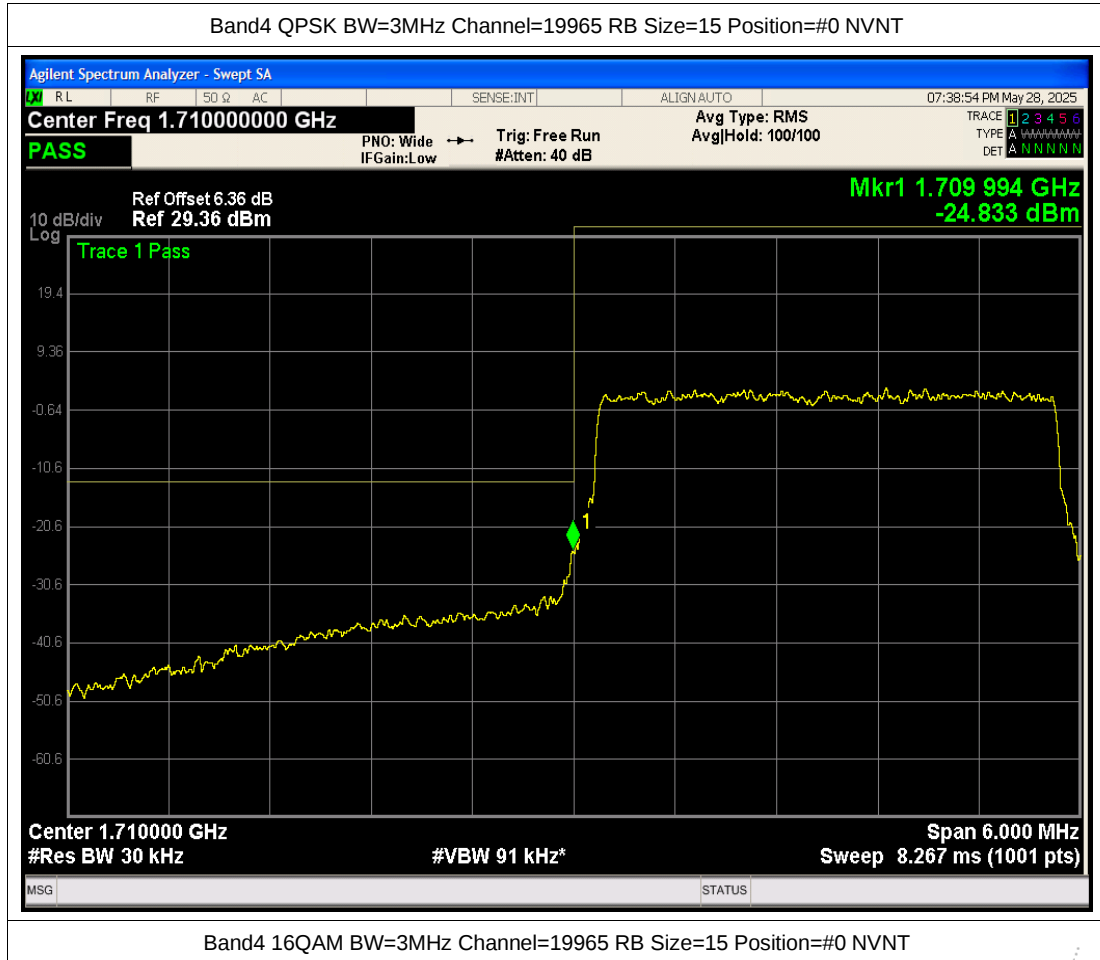


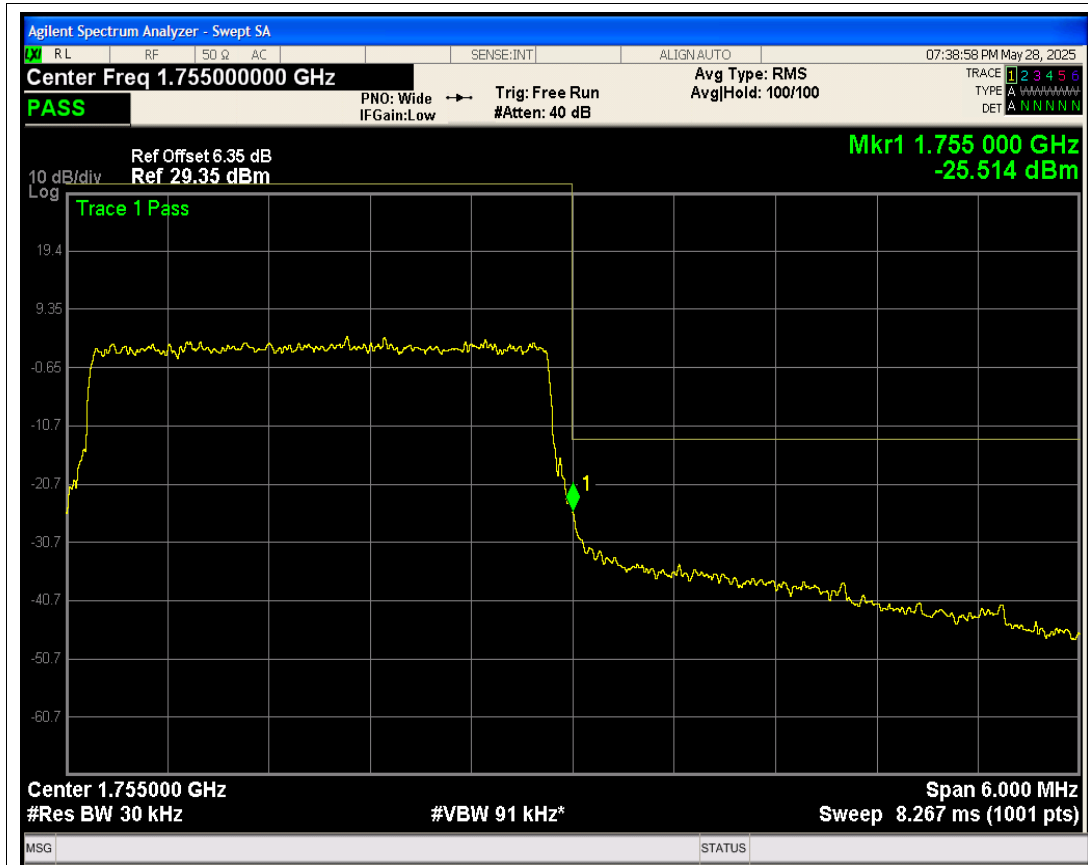




Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0 NVNT

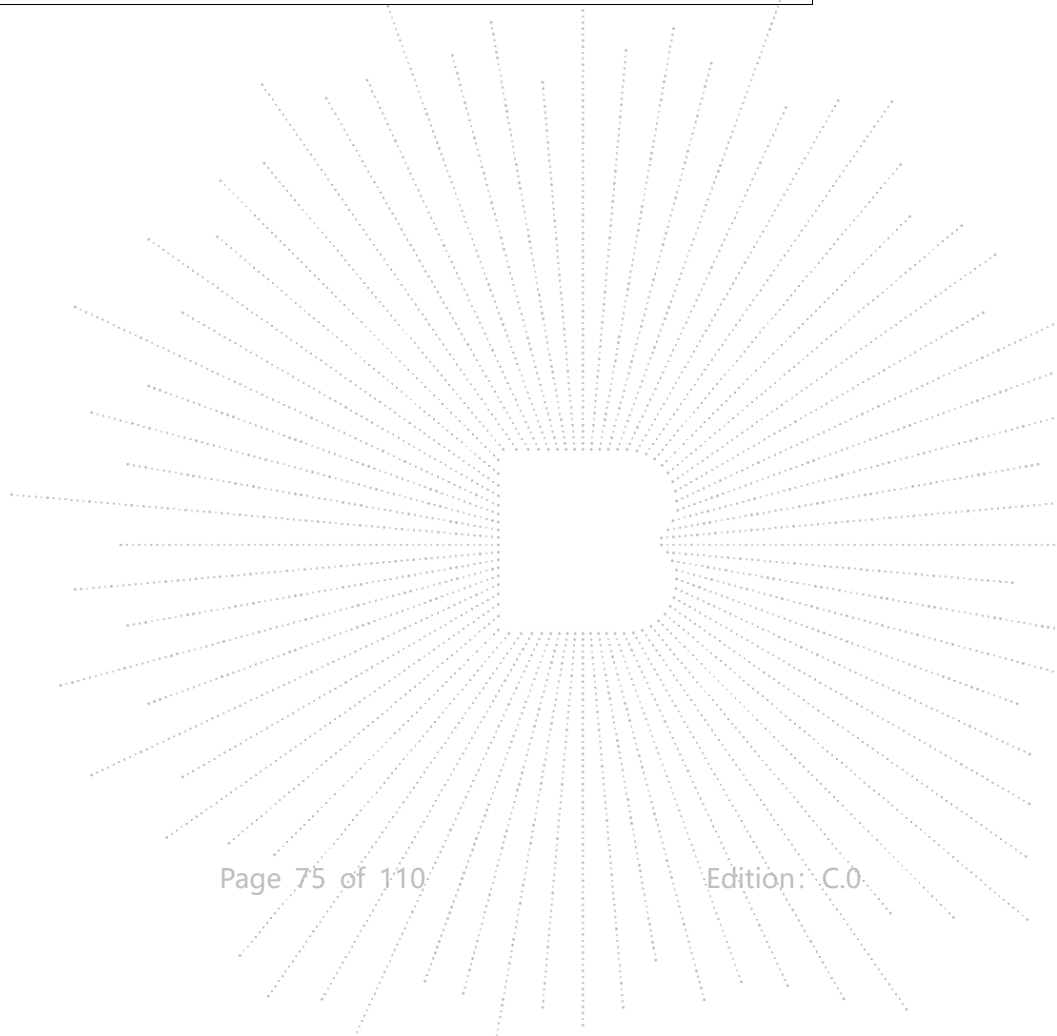
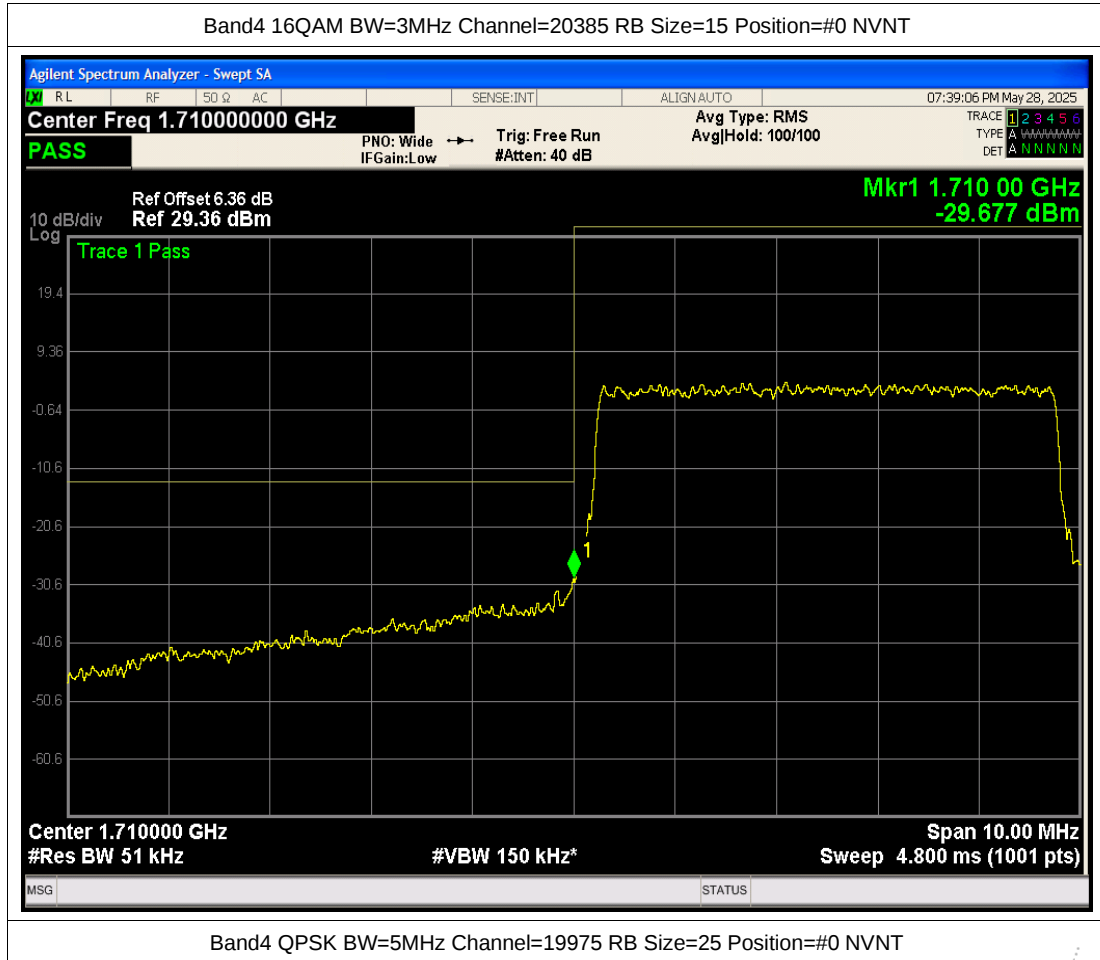


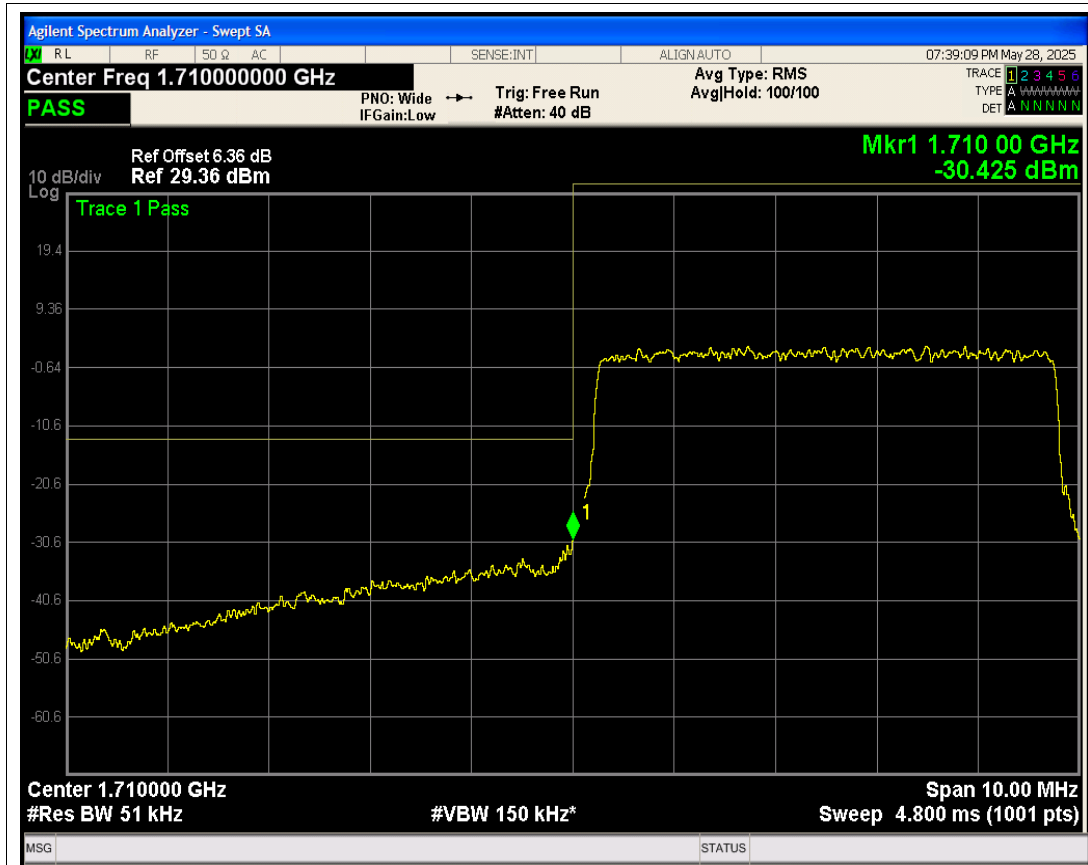




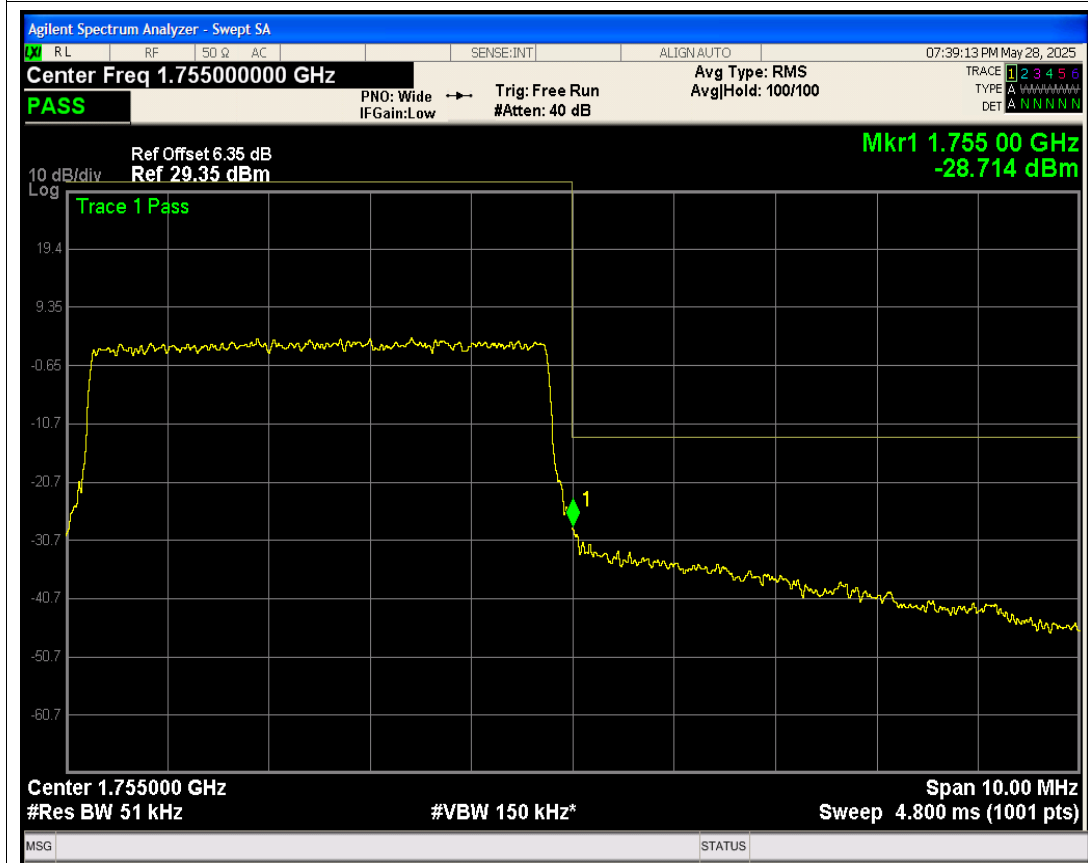
Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0 NVNT

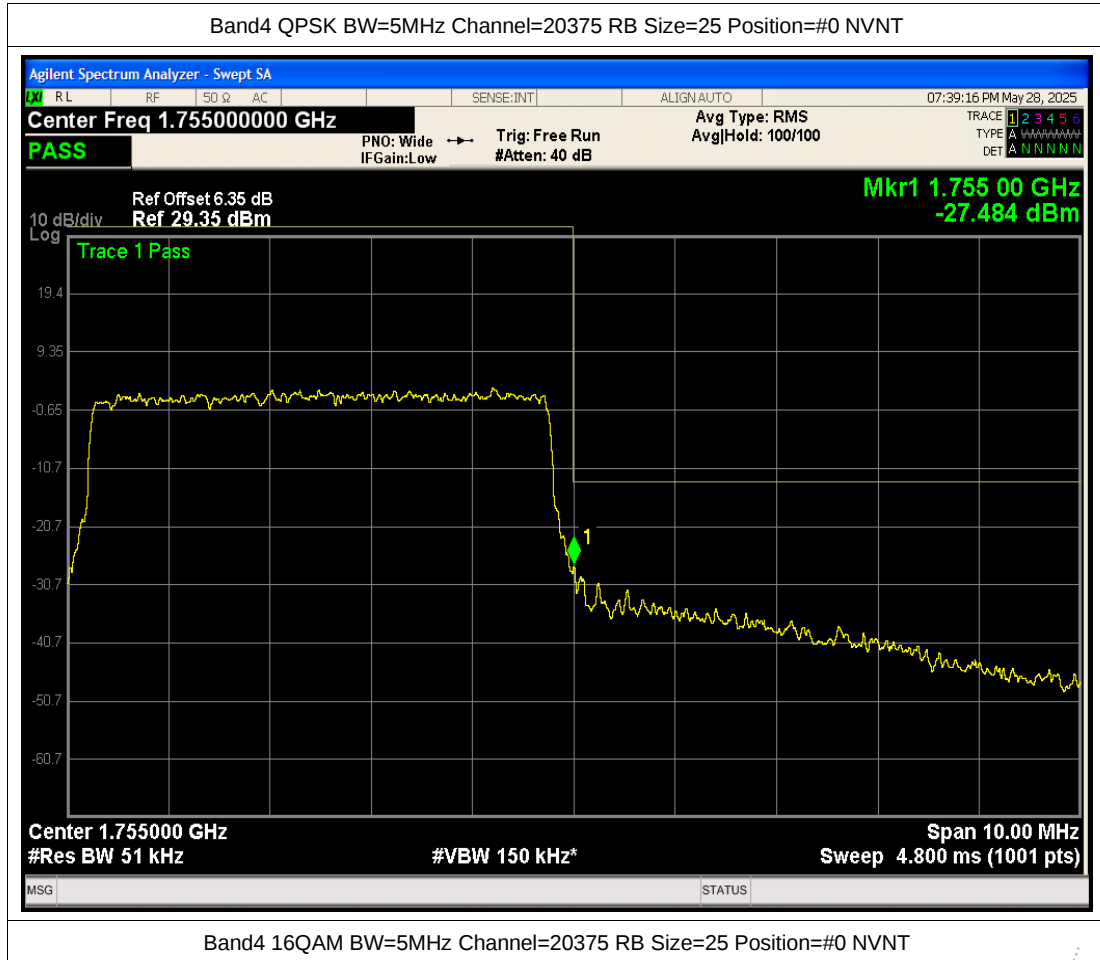


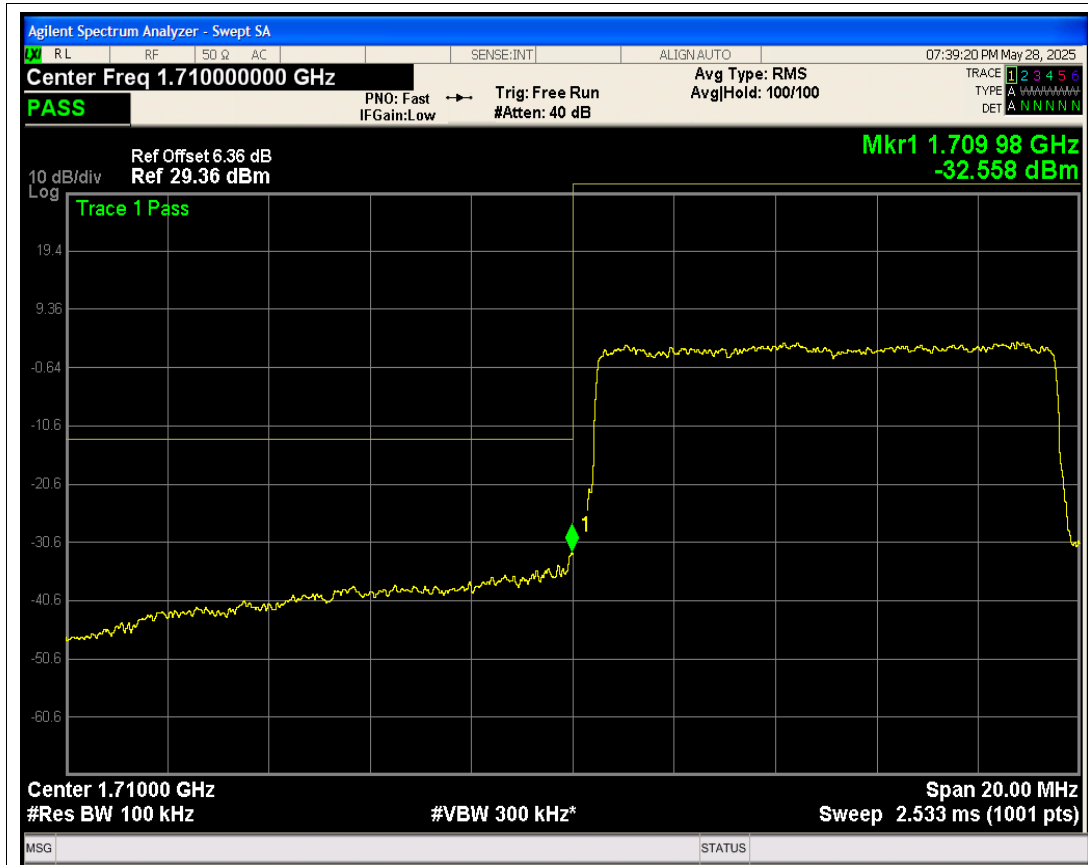




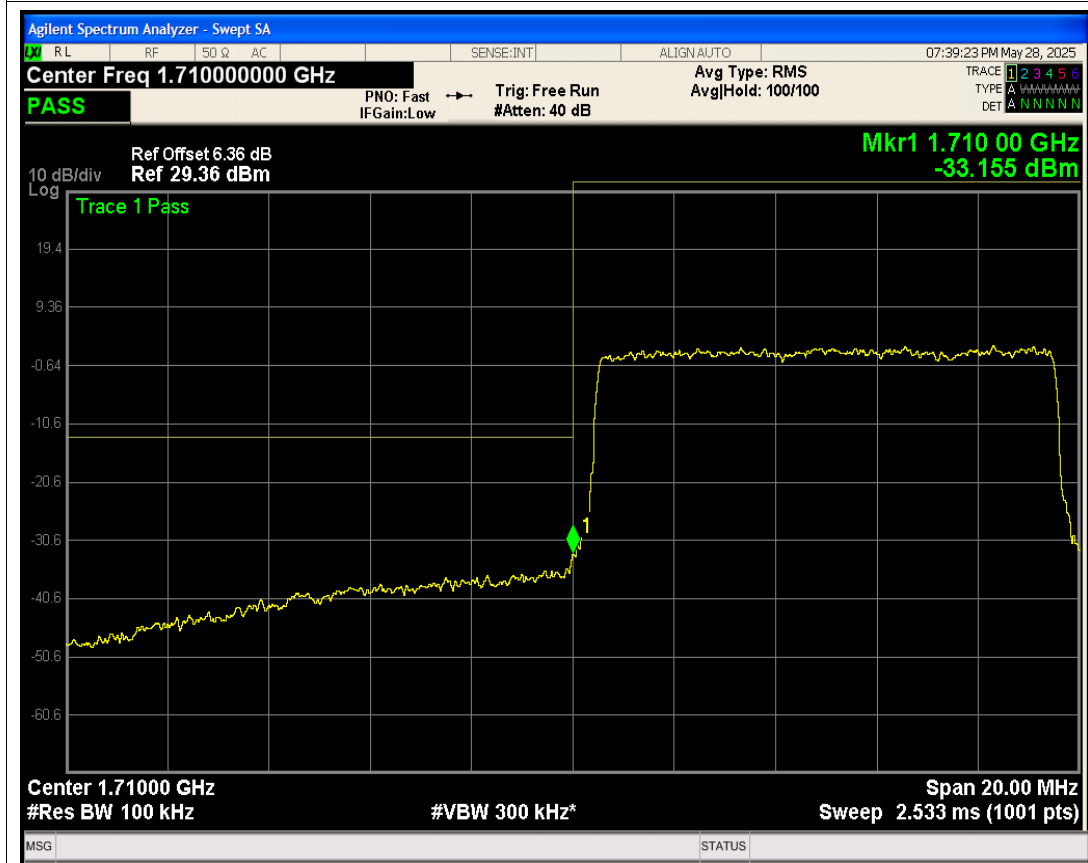
Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0 NVNT



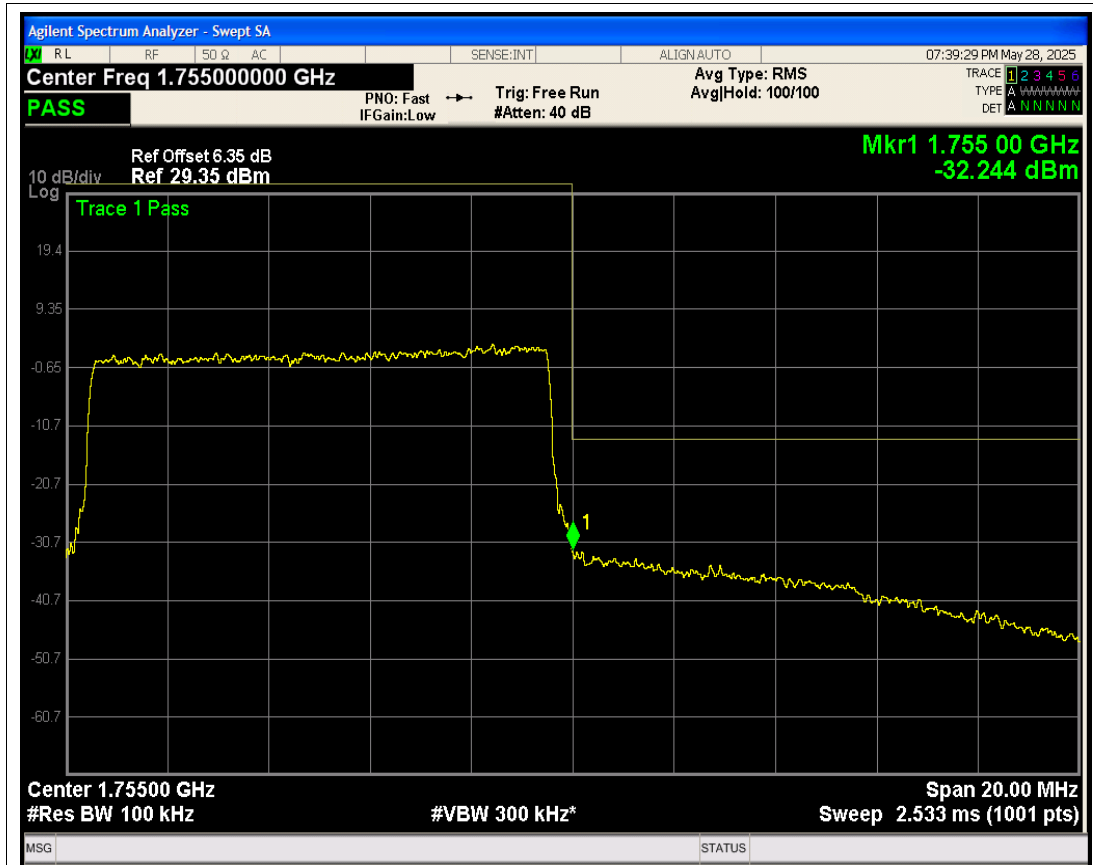




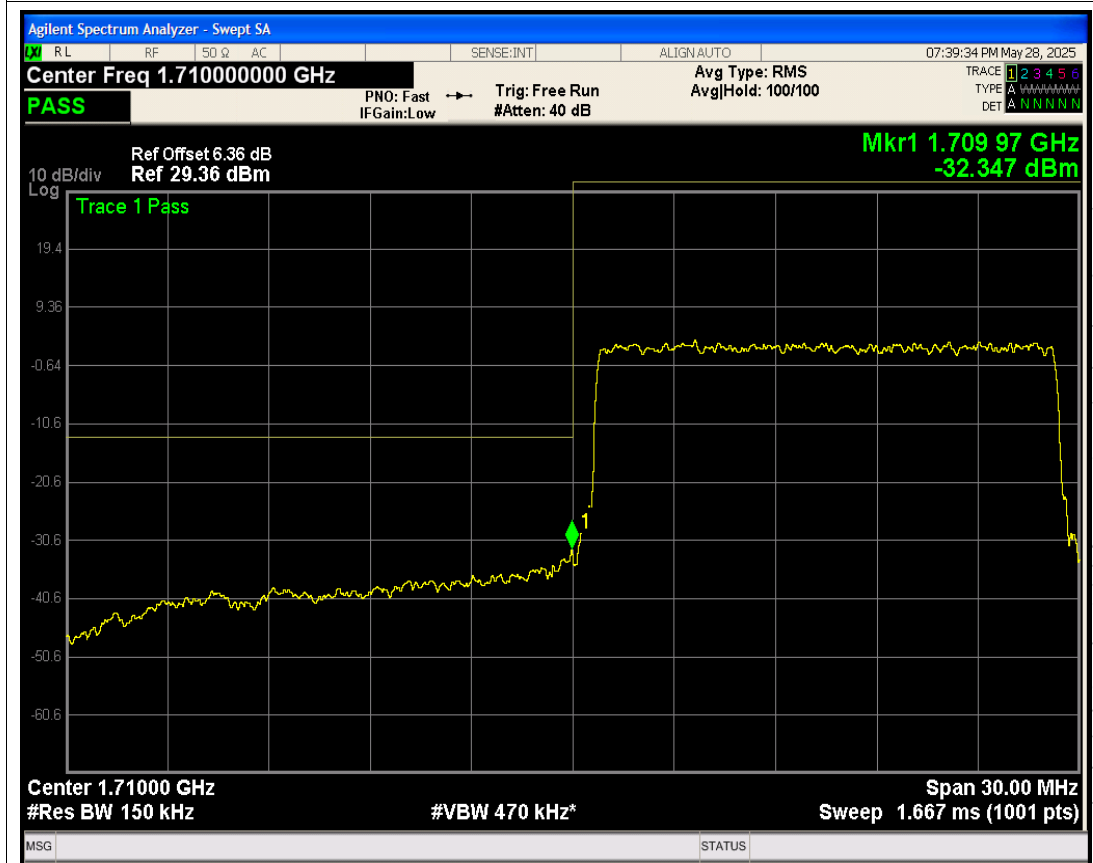
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0 NVNT

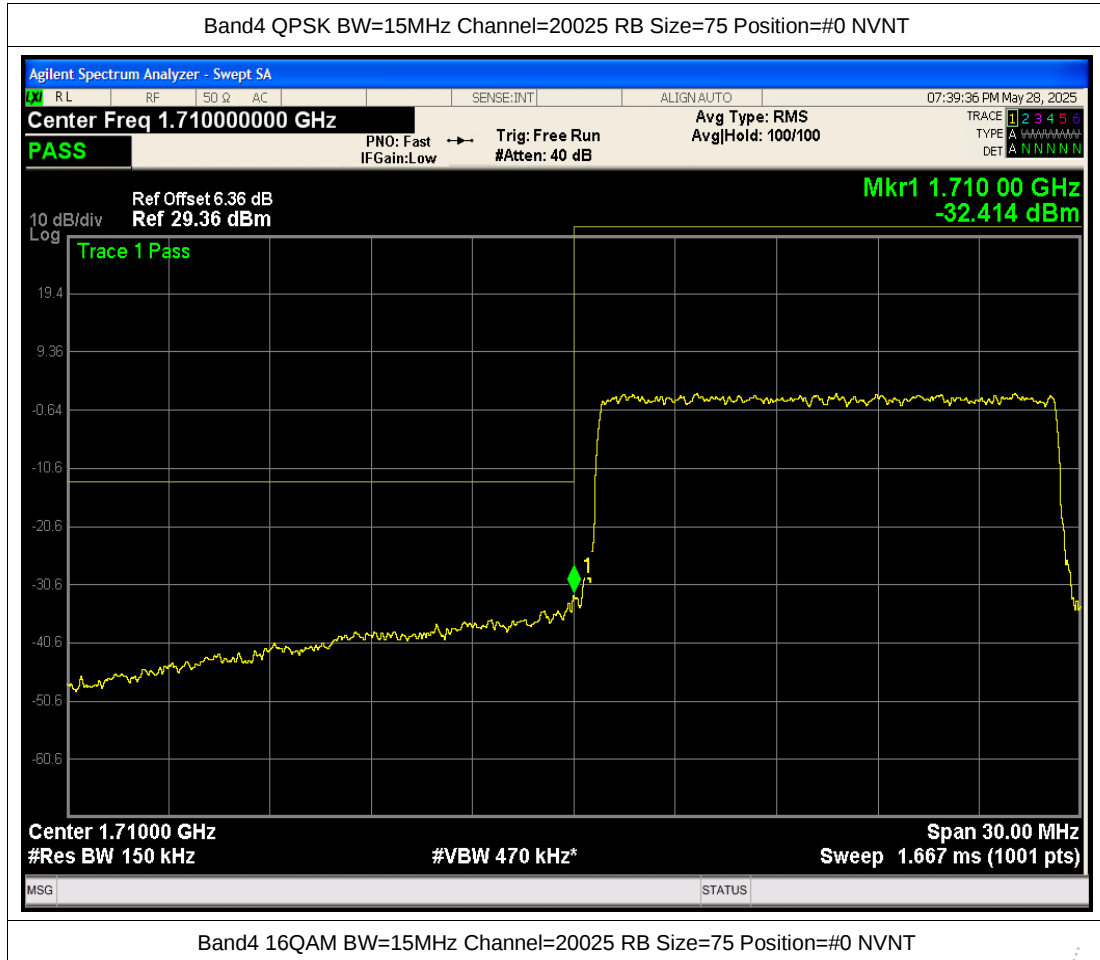


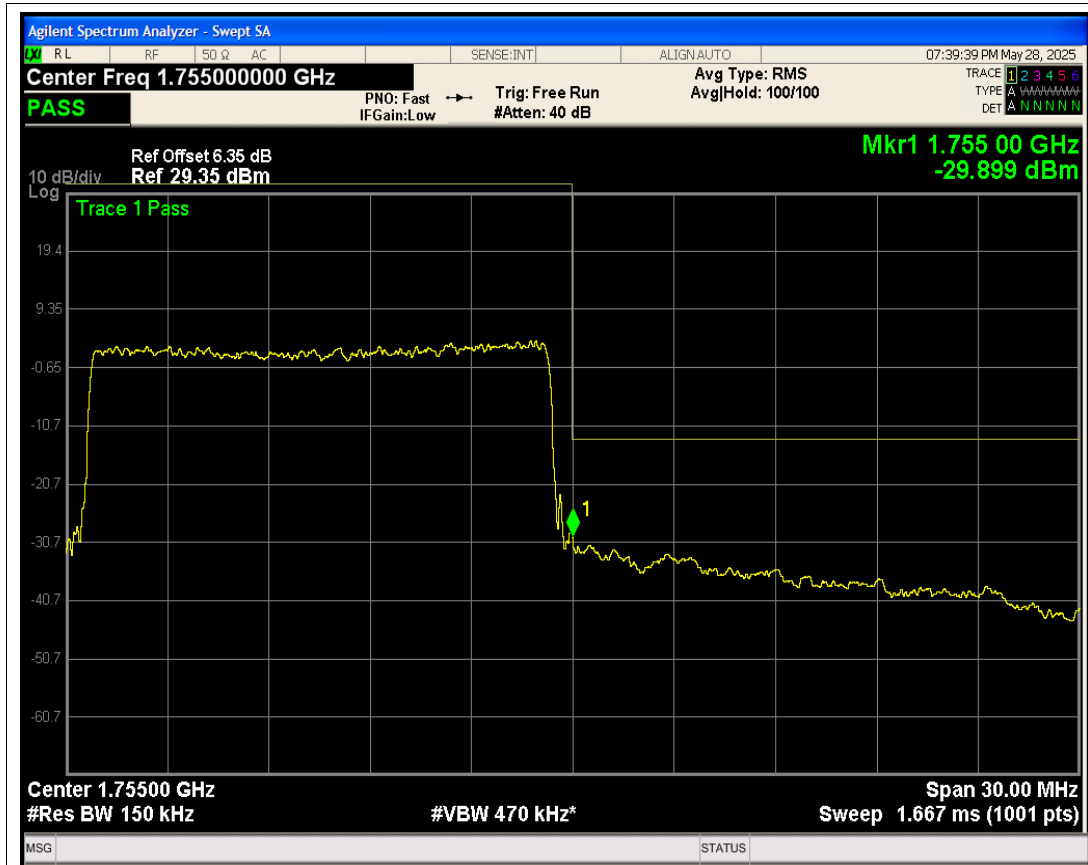




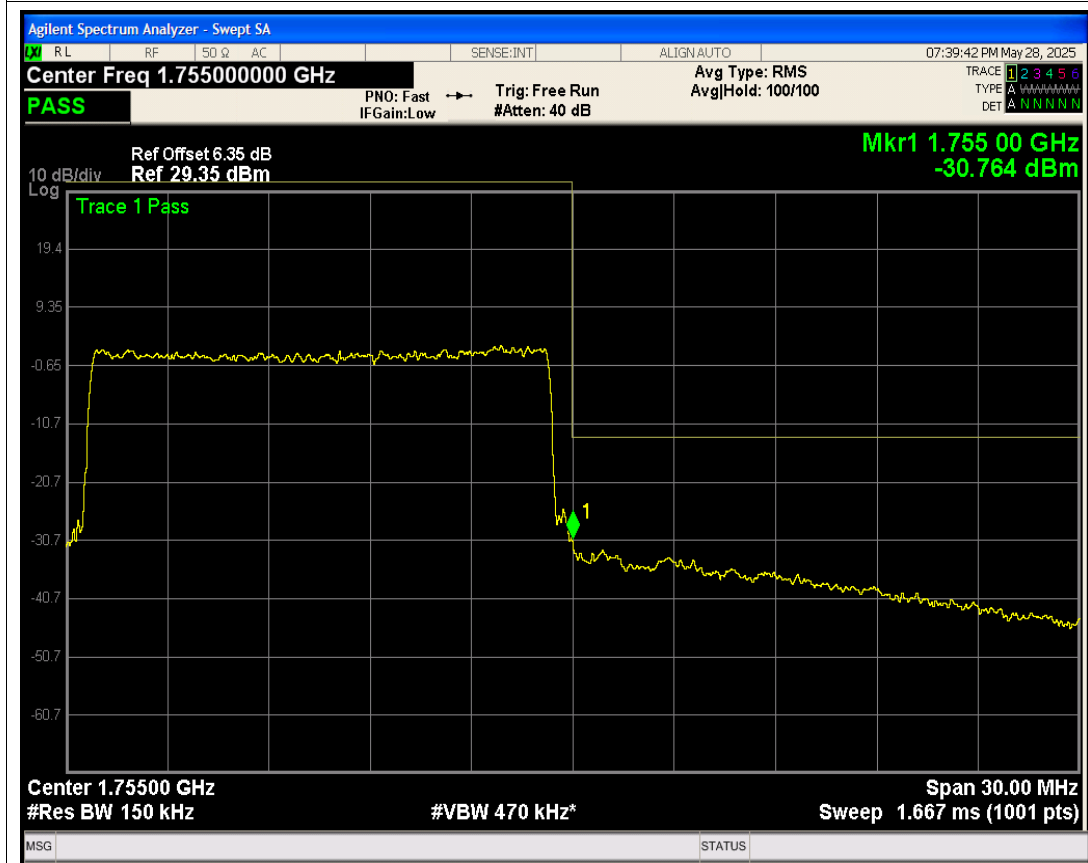
Band4 16QAM BW=10MHz Channel=20350 RB Size=50 Position=#0 NVNT

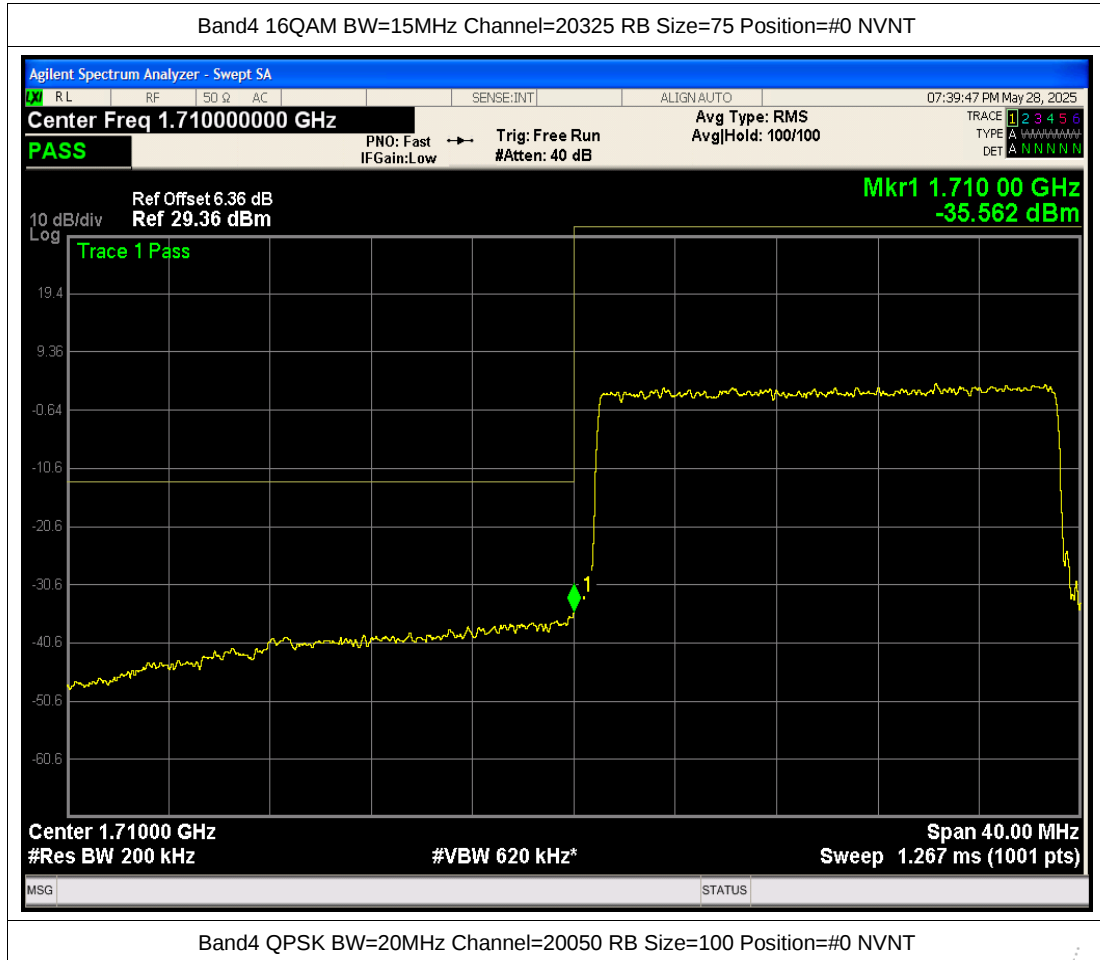


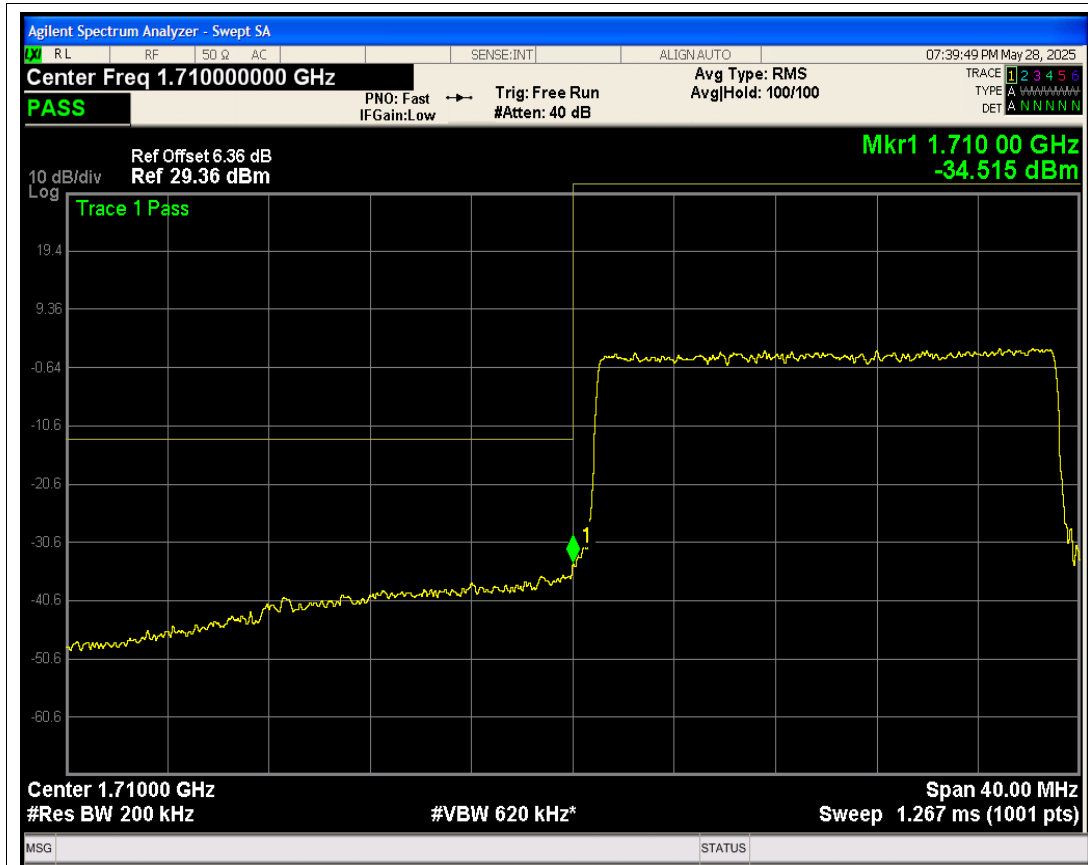




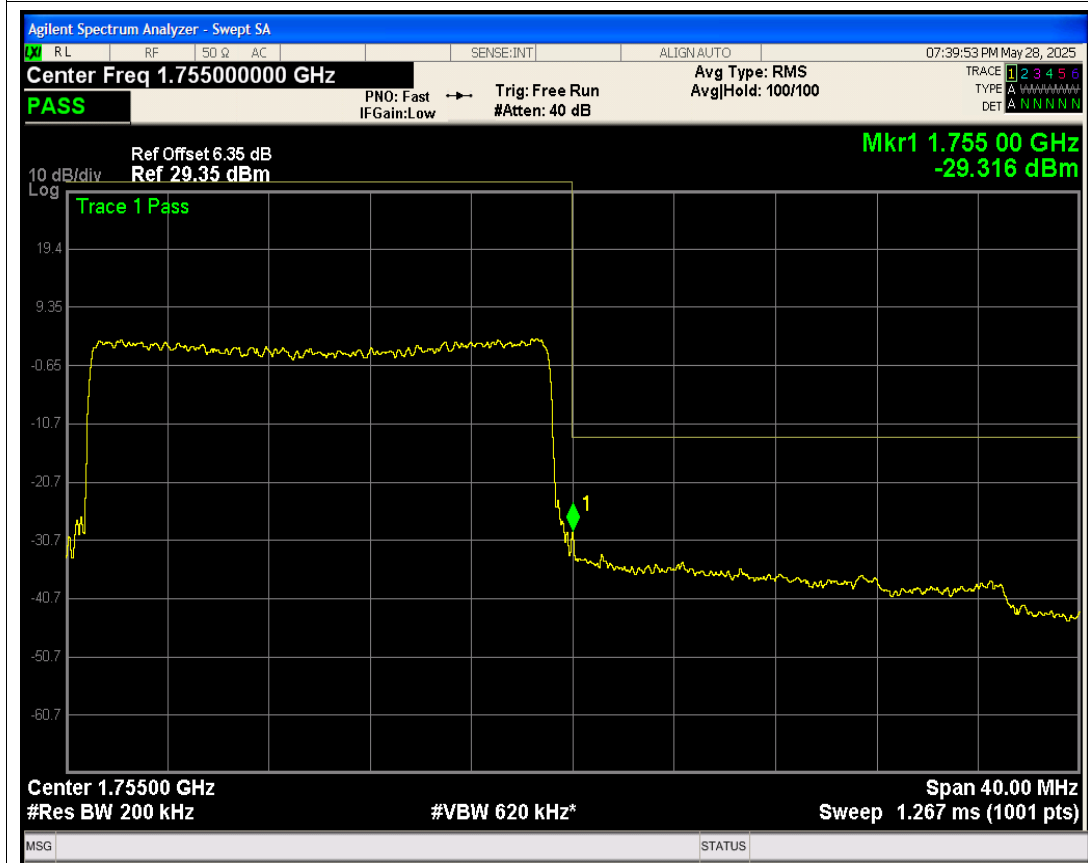
Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0 NVNT







Band4 16QAM BW=20MHz Channel=20050 RB Size=100 Position=#0 NVNT

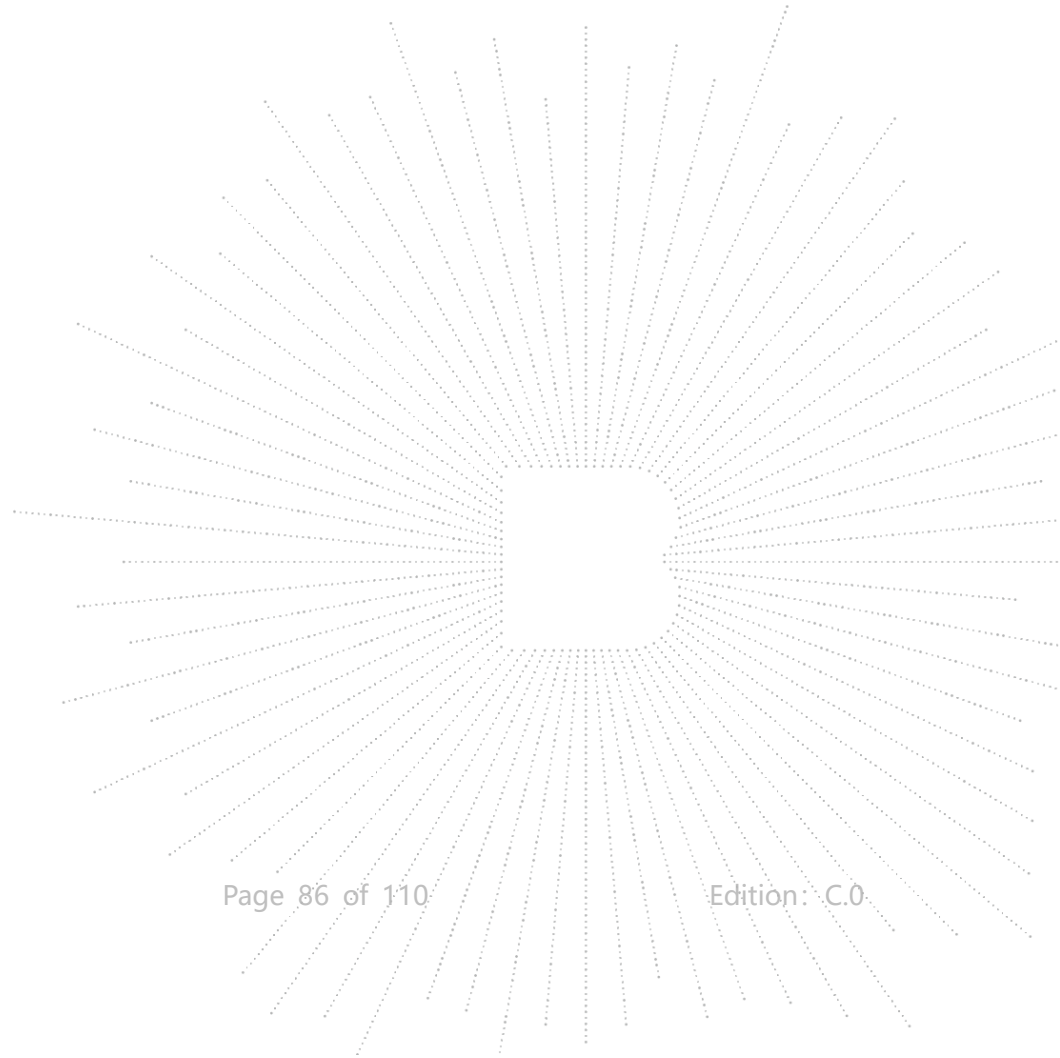


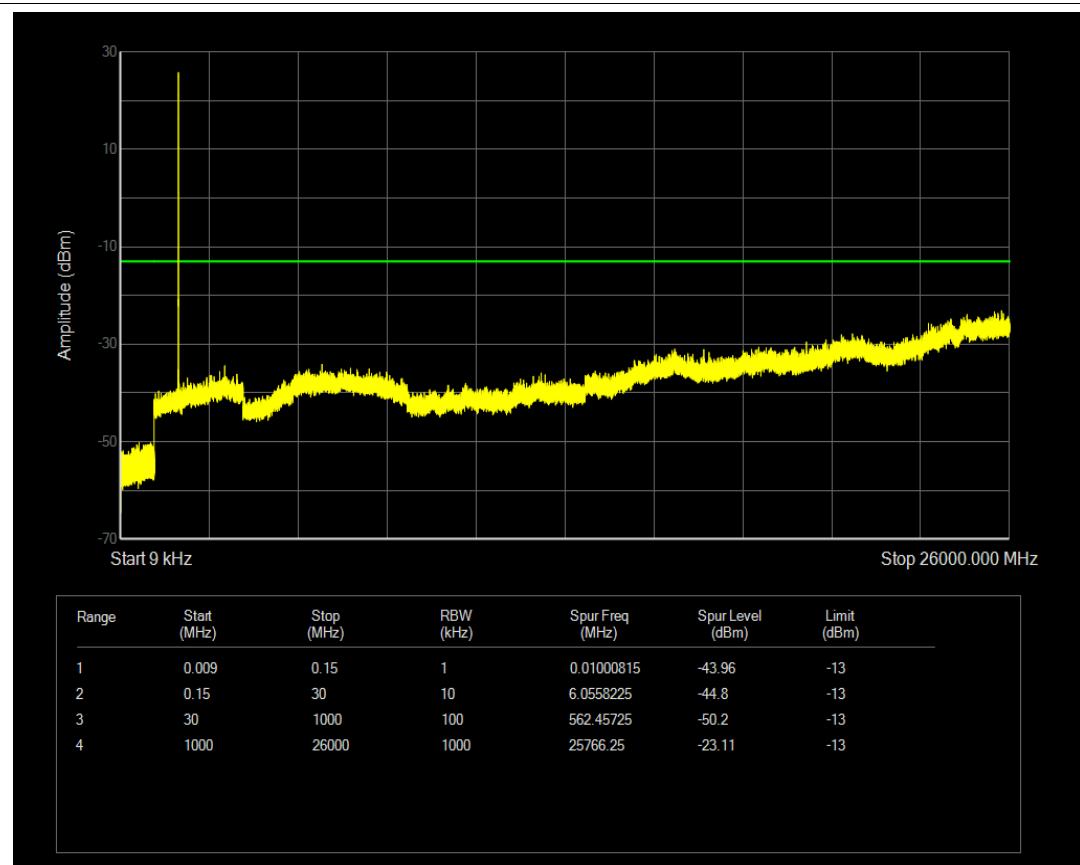


Appendix 6.Out-of-band emissions

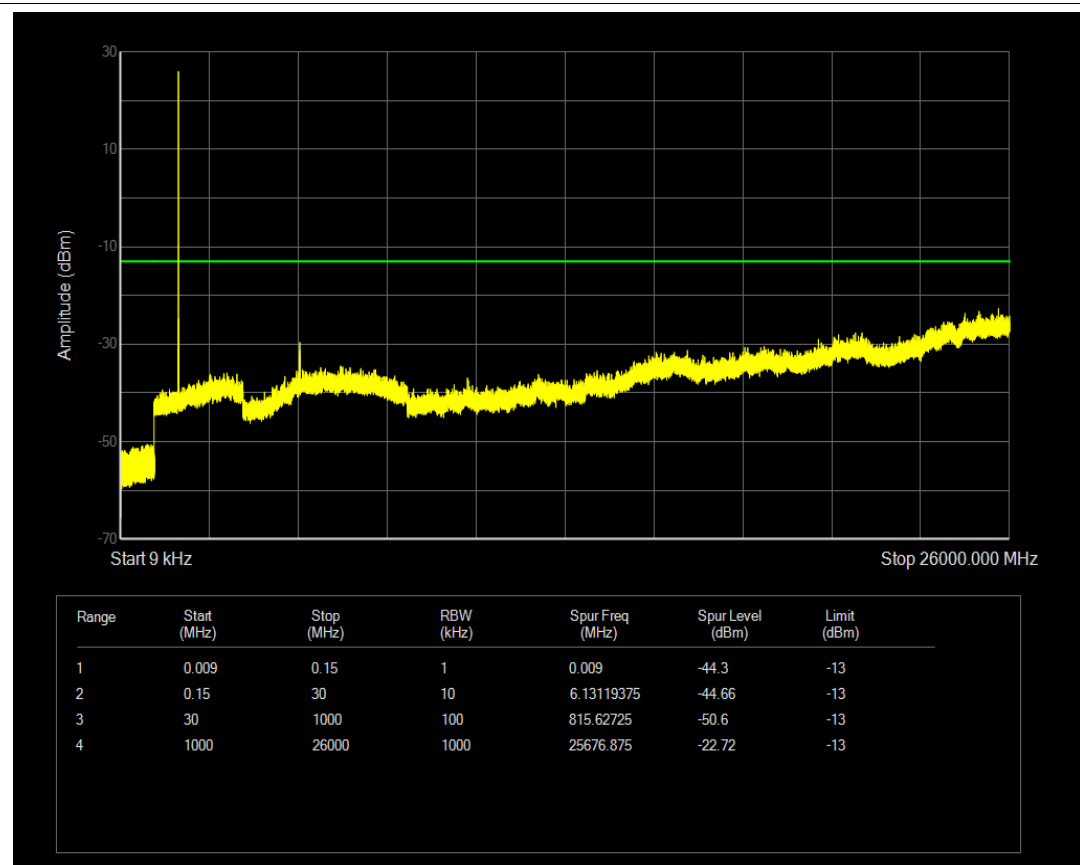
Condition	Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
NVNT	Band4	1.4	19957	6	#0	QPSK	25766.25	-23.11	-13	PASS
NVNT	Band4	1.4	19957	6	#0	16QAM	25676.88	-22.72	-13	PASS
NVNT	Band4	1.4	20175	6	#0	QPSK	25746.25	-23.47	-13	PASS
NVNT	Band4	1.4	20175	6	#0	16QAM	24928.13	-23.26	-13	PASS
NVNT	Band4	1.4	20393	6	#0	QPSK	25802.50	-23.04	-13	PASS
NVNT	Band4	1.4	20393	6	#0	16QAM	25318.13	-23.15	-13	PASS
NVNT	Band4	3	19965	15	#0	QPSK	25411.88	-23.12	-13	PASS
NVNT	Band4	3	19965	15	#0	16QAM	25768.13	-23.45	-13	PASS
NVNT	Band4	3	20175	15	#0	QPSK	25971.88	-23.27	-13	PASS
NVNT	Band4	3	20175	15	#0	16QAM	25857.50	-23.67	-13	PASS
NVNT	Band4	3	20385	15	#0	QPSK	25781.25	-23.36	-13	PASS
NVNT	Band4	3	20385	15	#0	16QAM	25708.75	-23.34	-13	PASS
NVNT	Band4	5	19975	25	#0	QPSK	25850.63	-23.47	-13	PASS
NVNT	Band4	5	19975	25	#0	16QAM	25353.13	-23.40	-13	PASS

NVNT	Band4	5	20175	25	#0	QPSK	25883.13	-23.46	-13	PASS
NVNT	Band4	5	20175	25	#0	16QAM	25571.88	-22.56	-13	PASS
NVNT	Band4	5	20375	25	#0	QPSK	25795.00	-23.46	-13	PASS
NVNT	Band4	5	20375	25	#0	16QAM	25611.88	-22.97	-13	PASS
NVNT	Band4	10	20000	50	#0	QPSK	25965.63	-23.61	-13	PASS
NVNT	Band4	10	20000	50	#0	16QAM	24665.00	-23.39	-13	PASS
NVNT	Band4	10	20175	50	#0	QPSK	24217.50	-23.61	-13	PASS
NVNT	Band4	10	20175	50	#0	16QAM	24791.88	-23.06	-13	PASS
NVNT	Band4	10	20350	50	#0	QPSK	25827.50	-22.92	-13	PASS
NVNT	Band4	10	20350	50	#0	16QAM	25485.00	-22.75	-13	PASS
NVNT	Band4	15	20025	75	#0	QPSK	25063.13	-22.85	-13	PASS
NVNT	Band4	15	20025	75	#0	16QAM	25887.50	-23.07	-13	PASS
NVNT	Band4	15	20175	75	#0	QPSK	25978.75	-23.32	-13	PASS
NVNT	Band4	15	20175	75	#0	16QAM	25761.25	-22.20	-13	PASS
NVNT	Band4	15	20325	75	#0	QPSK	24635.63	-23.37	-13	PASS
NVNT	Band4	15	20325	75	#0	16QAM	25989.38	-23.49	-13	PASS
NVNT	Band4	20	20050	100	#0	QPSK	25982.50	-23.37	-13	PASS
NVNT	Band4	20	20050	100	#0	16QAM	25480.00	-23.86	-13	PASS
NVNT	Band4	20	20175	100	#0	QPSK	25341.25	-23.27	-13	PASS
NVNT	Band4	20	20175	100	#0	16QAM	25074.38	-22.61	-13	PASS
NVNT	Band4	20	20300	100	#0	QPSK	24697.50	-23.15	-13	PASS
NVNT	Band4	20	20300	100	#0	16QAM	25970.00	-23.46	-13	PASS

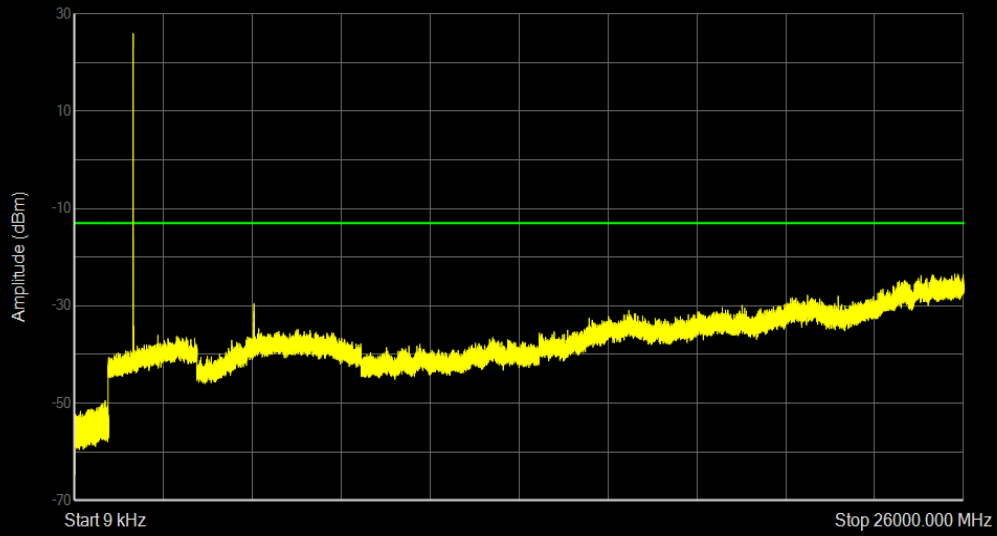




Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0 NVNT

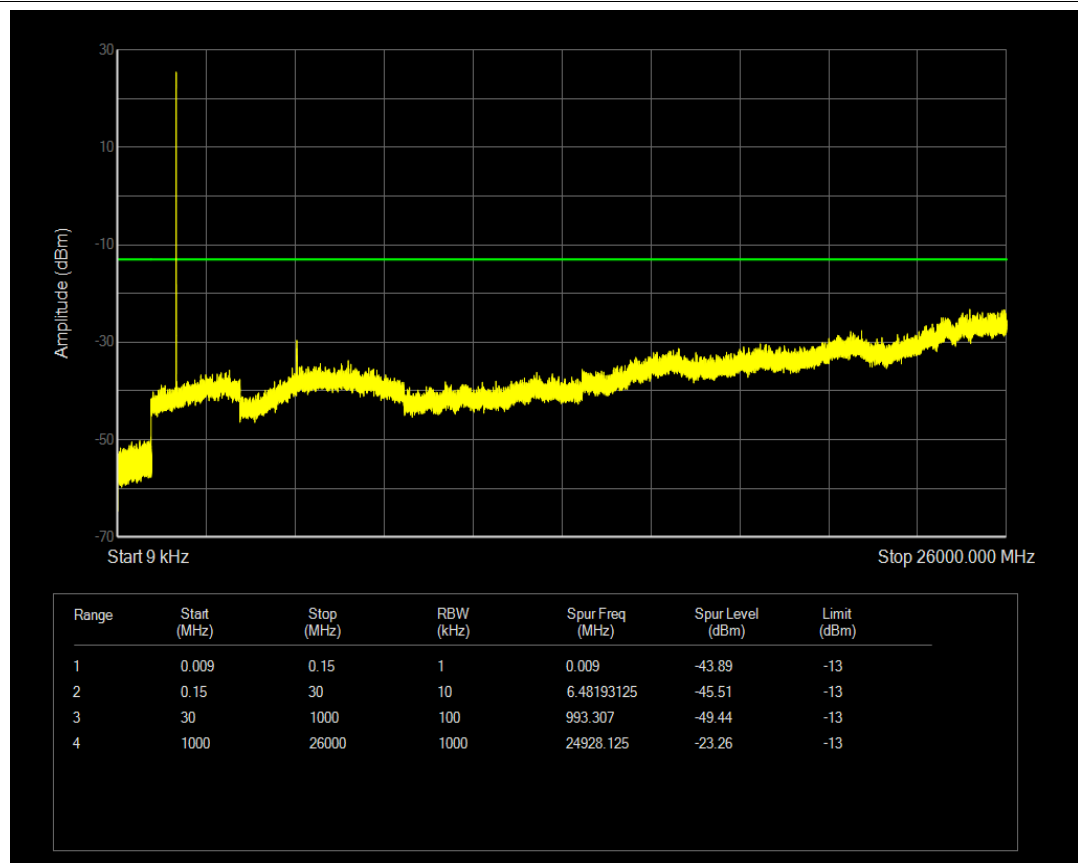


Band4 16QAM BW=1.4MHz Channel=19957 RB Size=6 Position=#0 NVNT

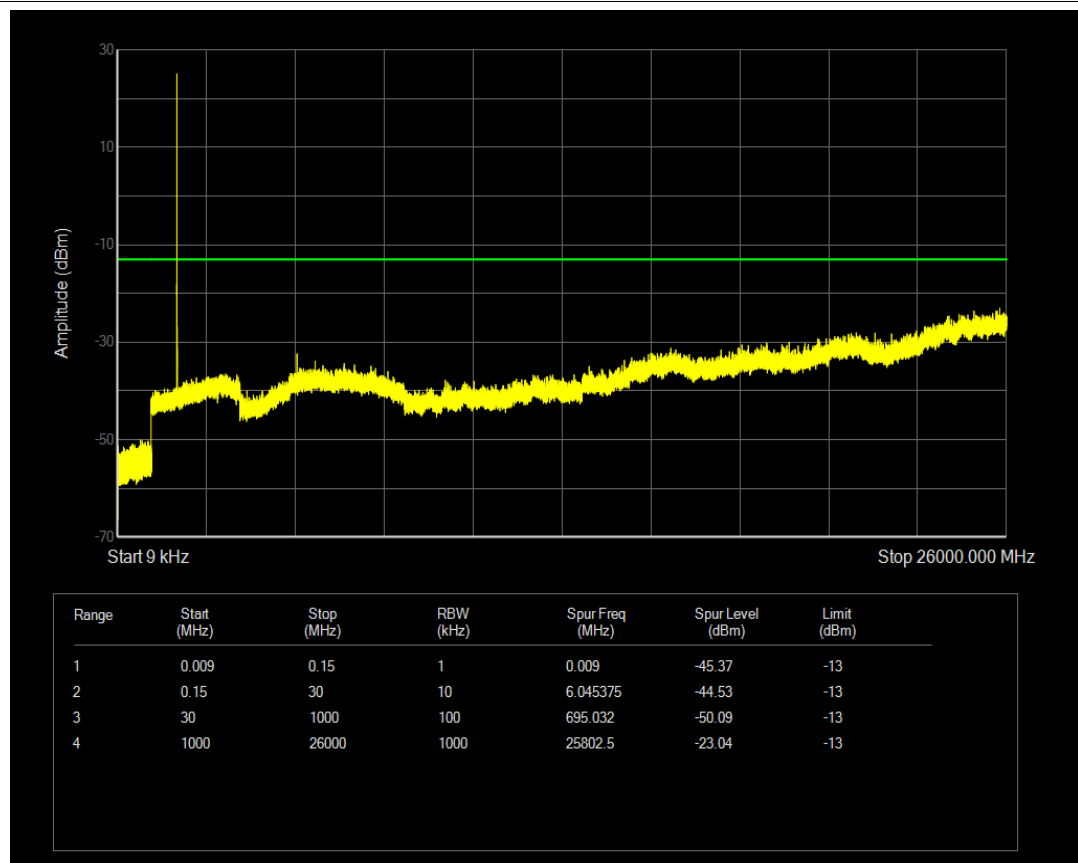


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009341925	-45.3	-13
2	0.15	30	10	6.52521375	-45.48	-13
3	30	1000	100	914.66425	-49.49	-13
4	1000	26000	1000	25746.25	-23.47	-13

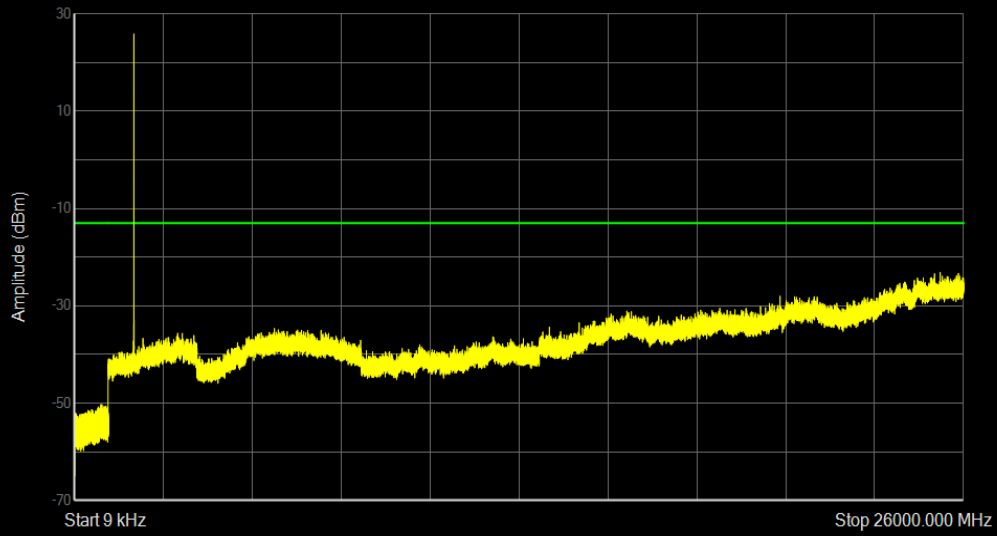
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0 NVNT



Band4 16QAM BW=1.4MHz Channel=20175 RB Size=6 Position=#0 NVNT

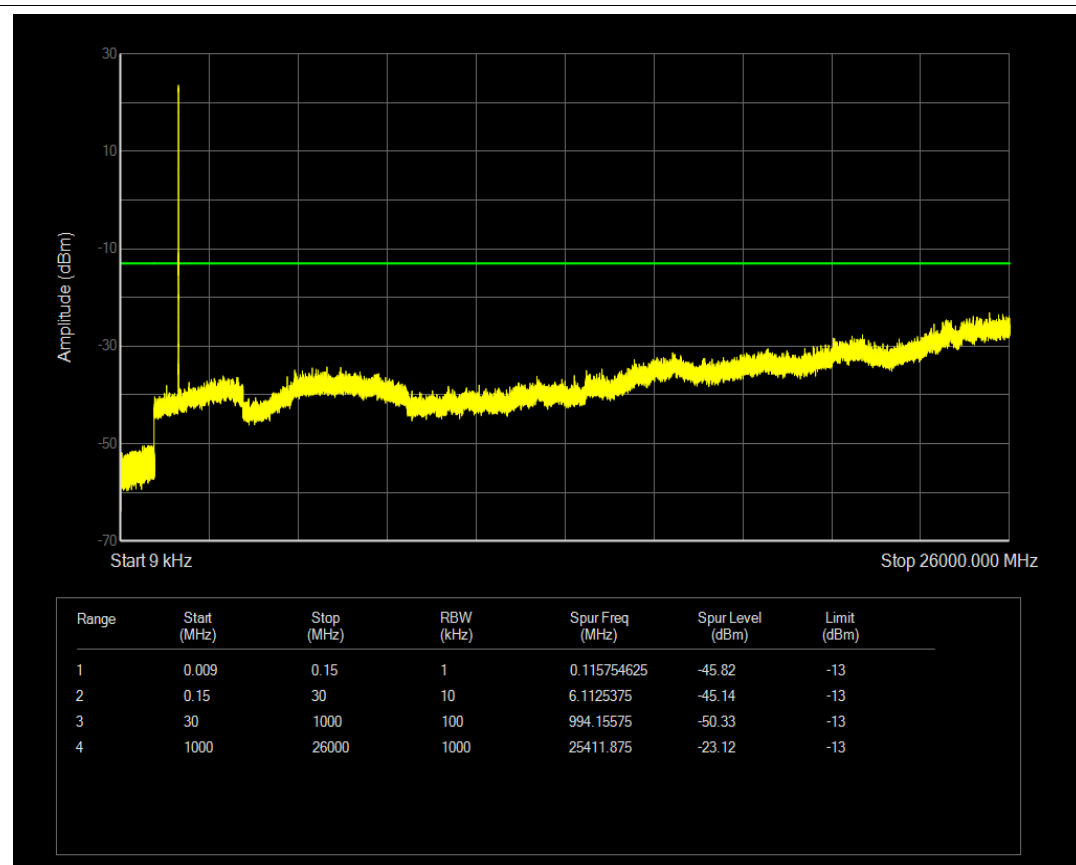


Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0 NVNT

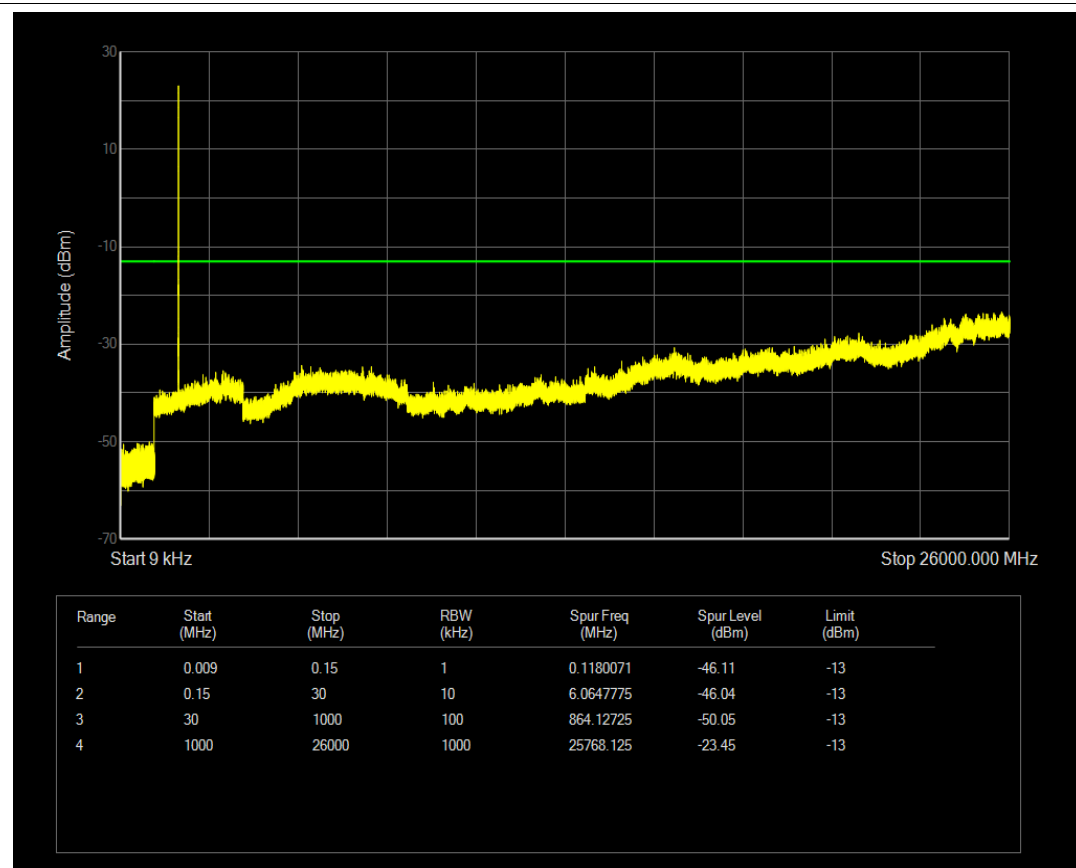


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00927495	-45.7	-13
2	0.15	30	10	6.05955375	-45.39	-13
3	30	1000	100	819.677	-50.3	-13
4	1000	26000	1000	25318.125	-23.15	-13

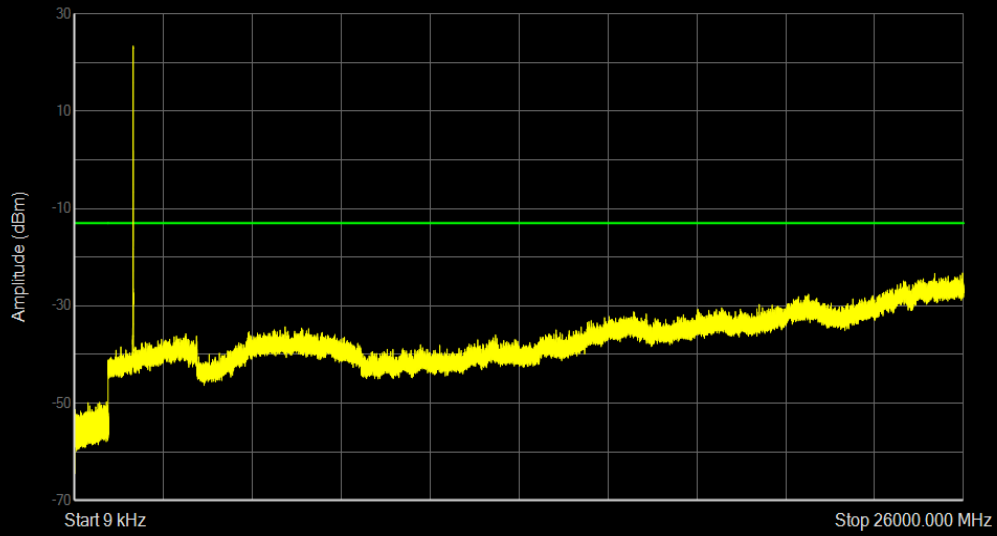
Band4 16QAM BW=1.4MHz Channel=20393 RB Size=6 Position=#0 NVNT



Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0 NVNT

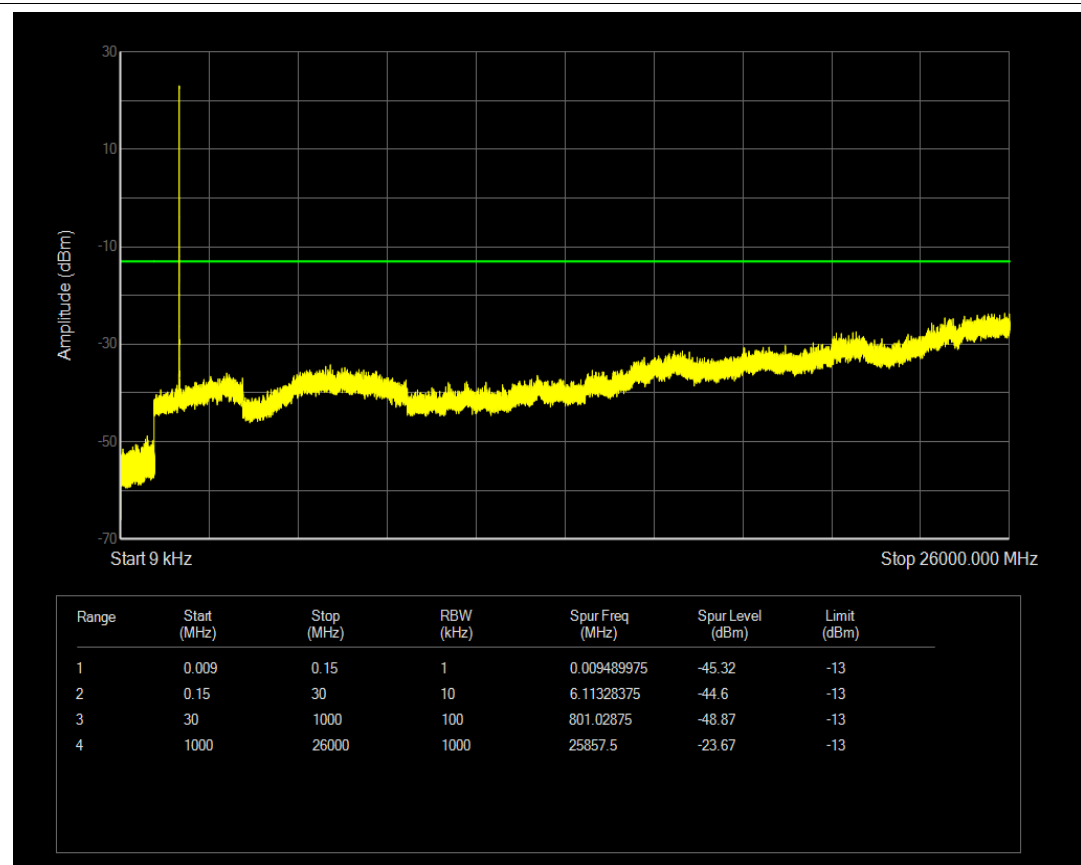


Band4 16QAM BW=3MHz Channel=19965 RB Size=15 Position=#0 NVNT

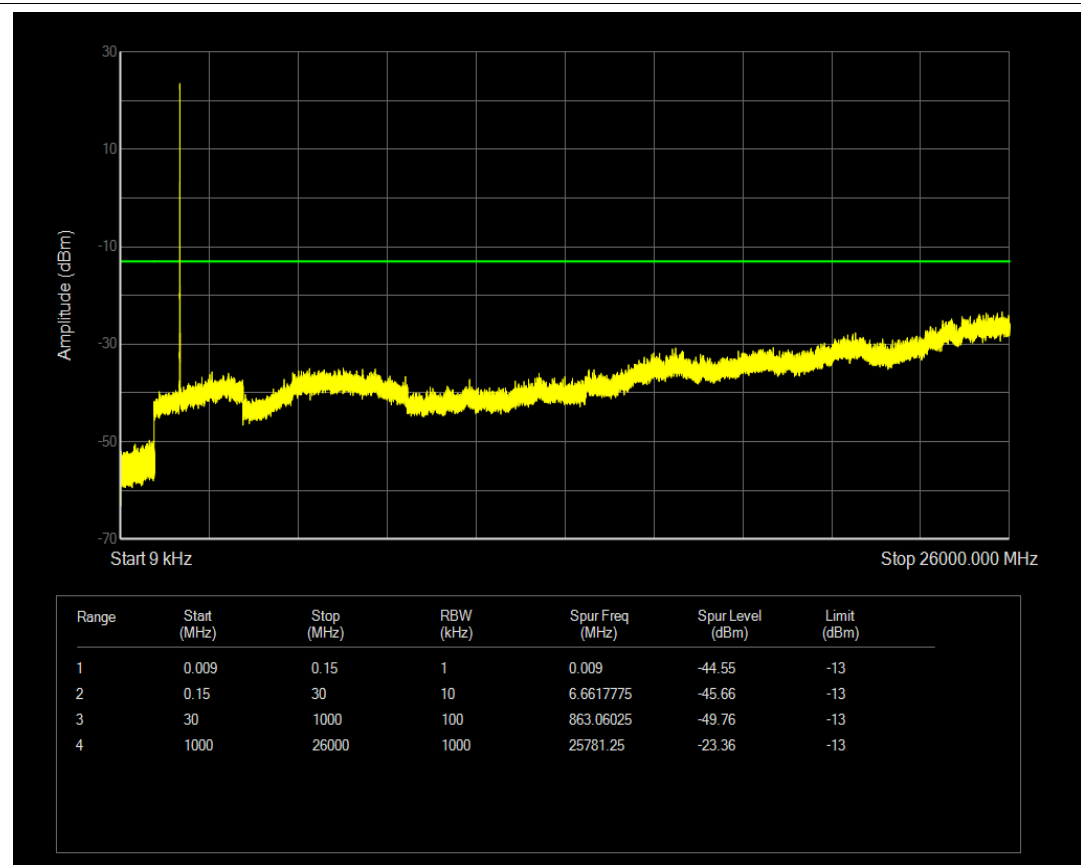


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009	-45.24	-13
2	0.15	30	10	6.0528375	-43.94	-13
3	30	1000	100	952.15475	-49.78	-13
4	1000	26000	1000	25971.875	-23.27	-13

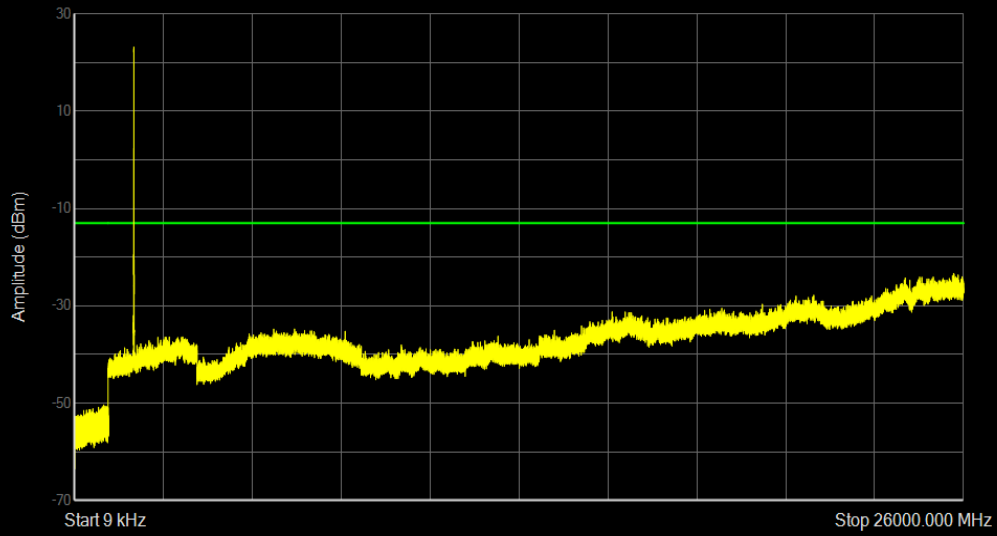
Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0 NVNT



Band4 16QAM BW=3MHz Channel=20175 RB Size=15 Position=#0 NVNT

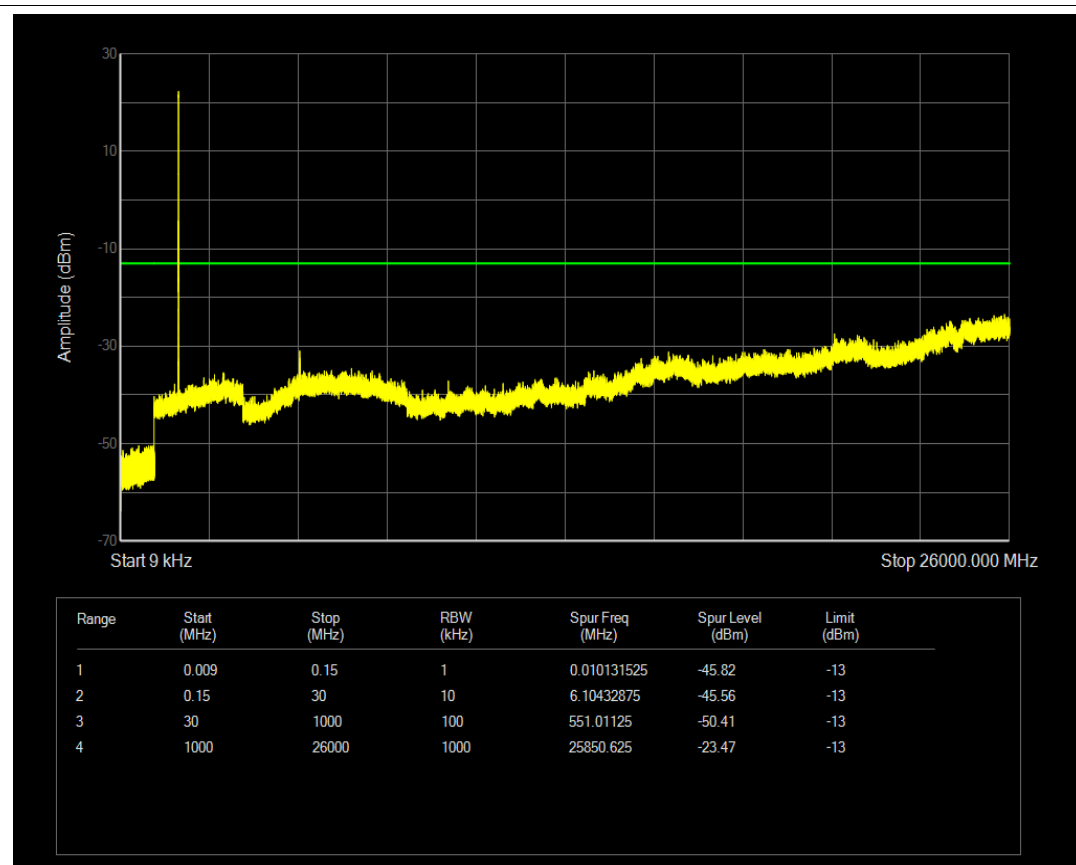


Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0 NVNT

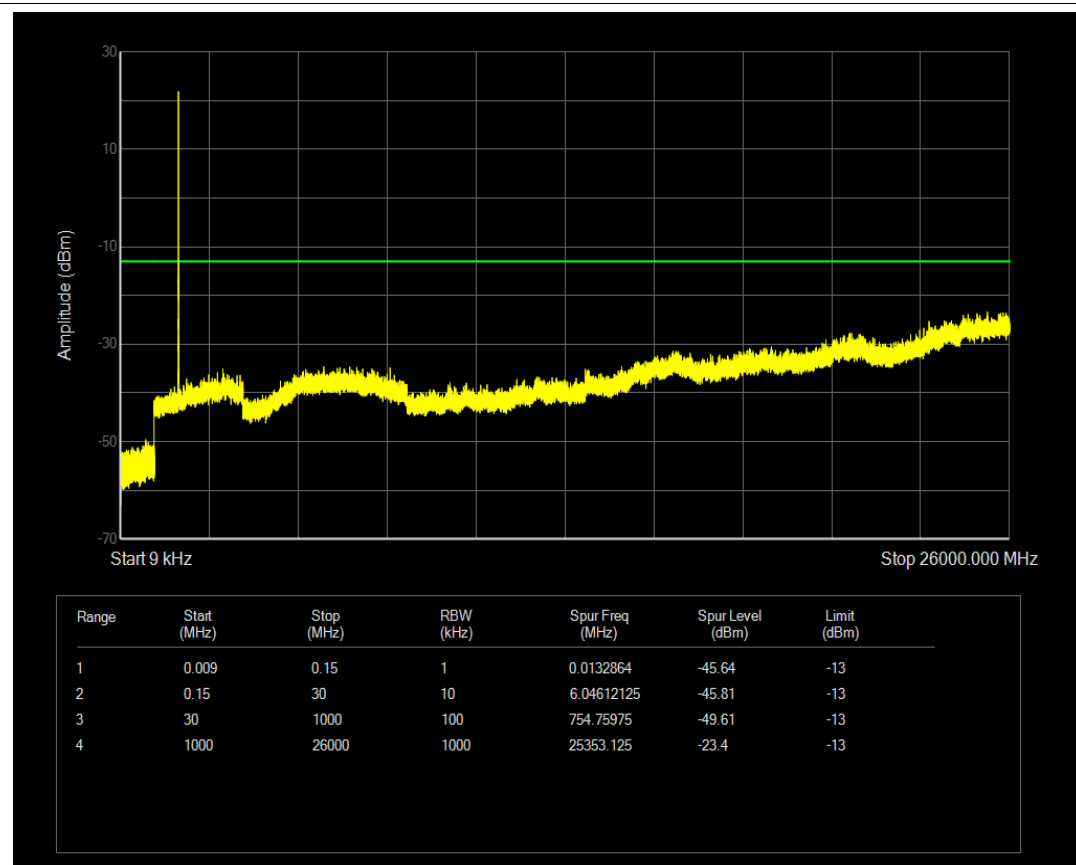


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0090705	-45.4	-13
2	0.15	30	10	6.08418	-45.23	-13
3	30	1000	100	870.28675	-50.39	-13
4	1000	26000	1000	25708.75	-23.34	-13

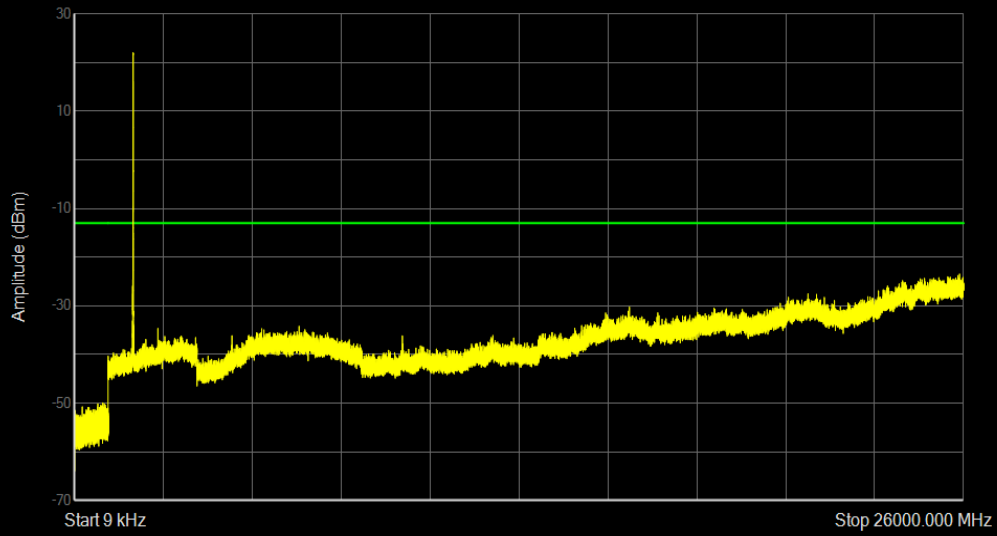
Band4 16QAM BW=3MHz Channel=20385 RB Size=15 Position=#0 NVNT



Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0 NVNT

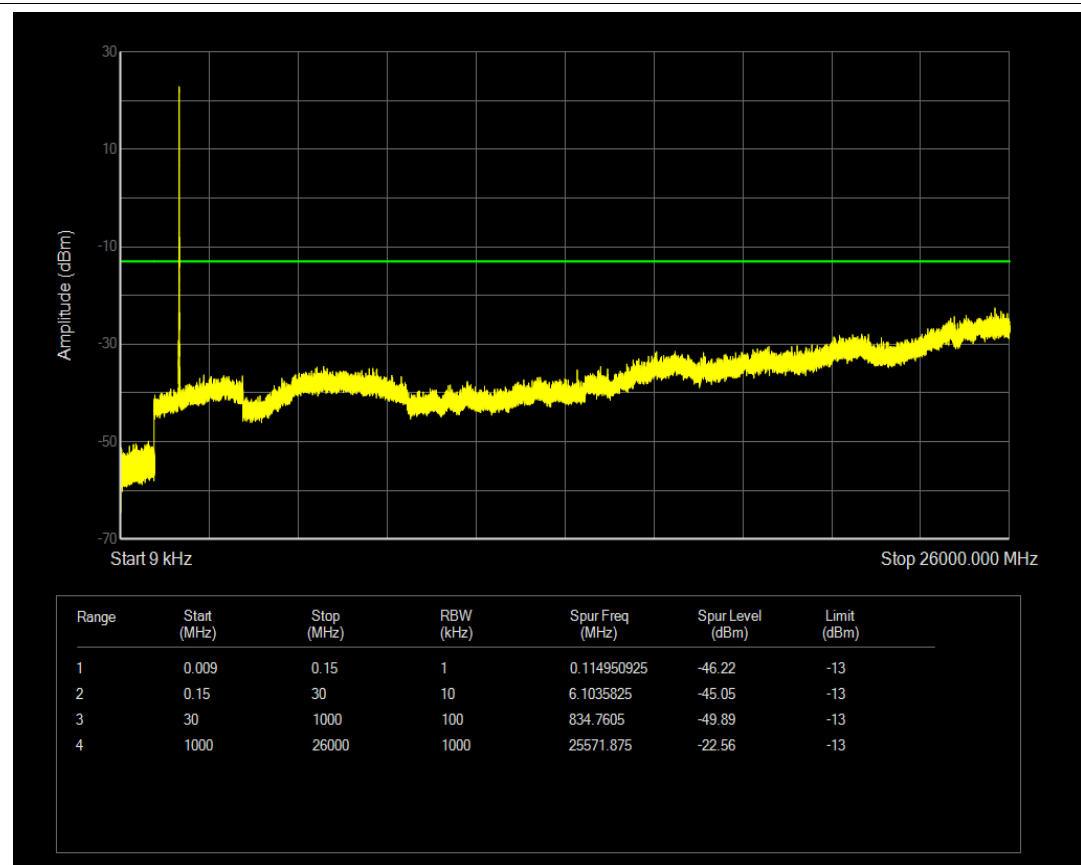


Band4 16QAM BW=5MHz Channel=19975 RB Size=25 Position=#0 NVNT

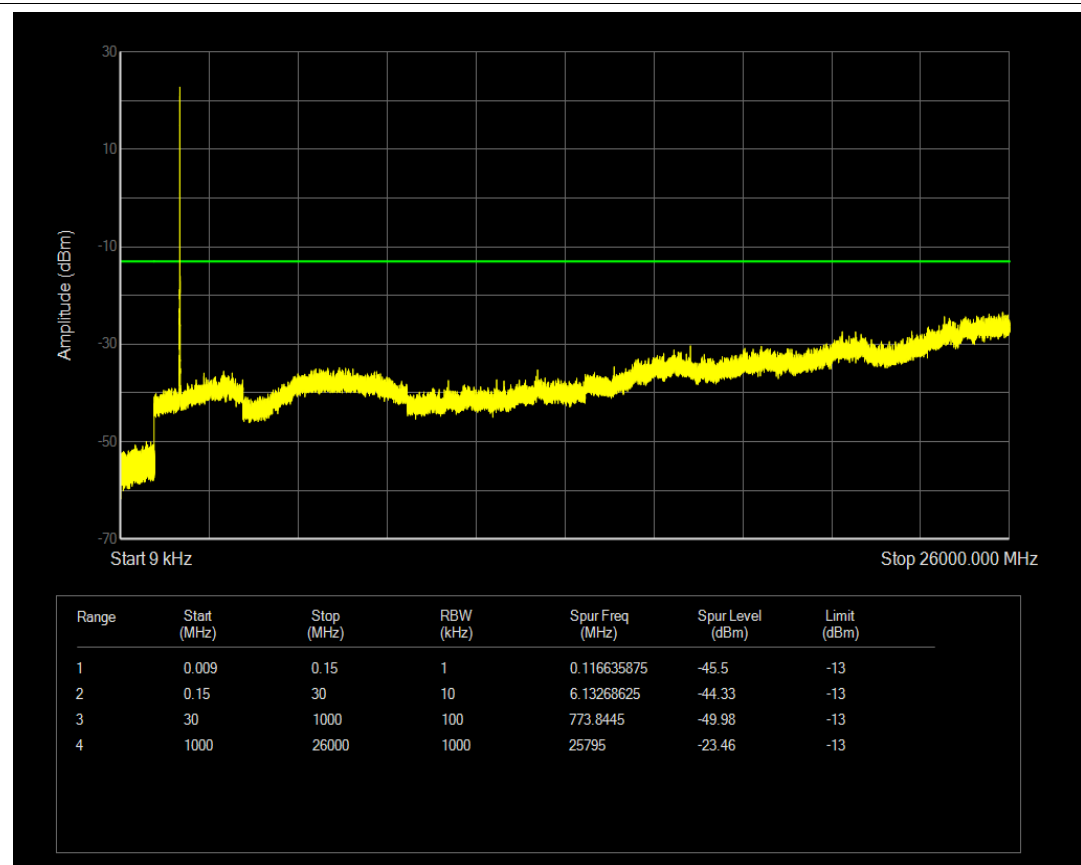


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.117242175	-45.38	-13
2	0.15	30	10	6.10806	-45.4	-13
3	30	1000	100	848.12225	-49.94	-13
4	1000	26000	1000	25883.125	-23.46	-13

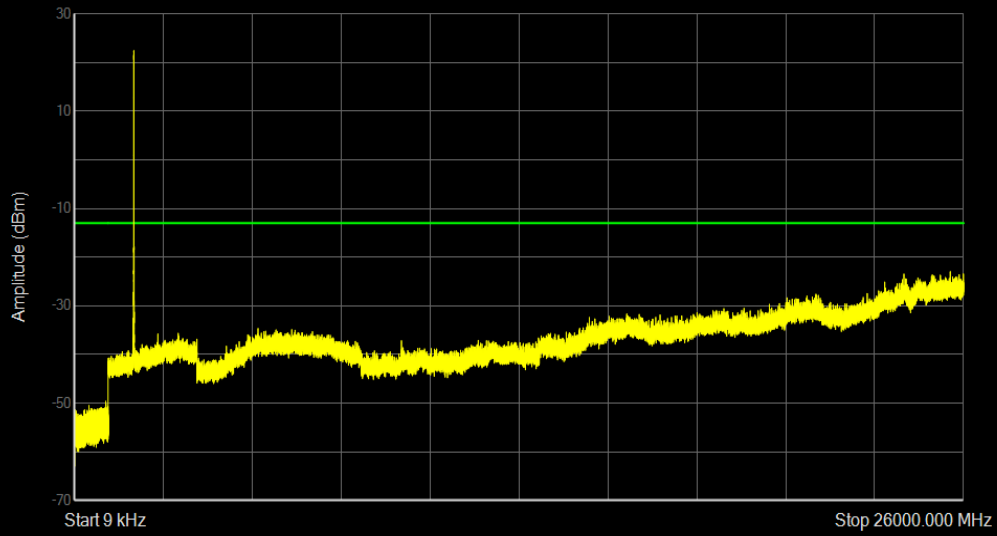
Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0 NVNT



Band4 16QAM BW=5MHz Channel=20175 RB Size=25 Position=#0 NVNT

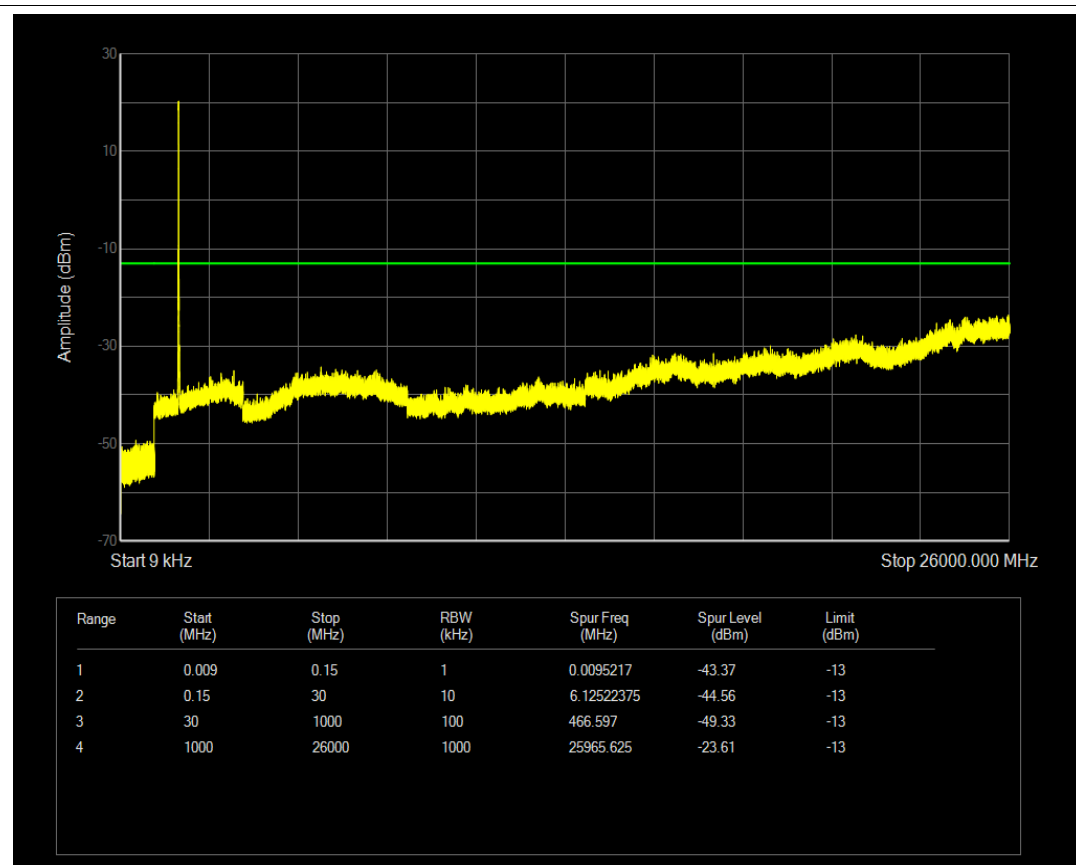


Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0 NVNT

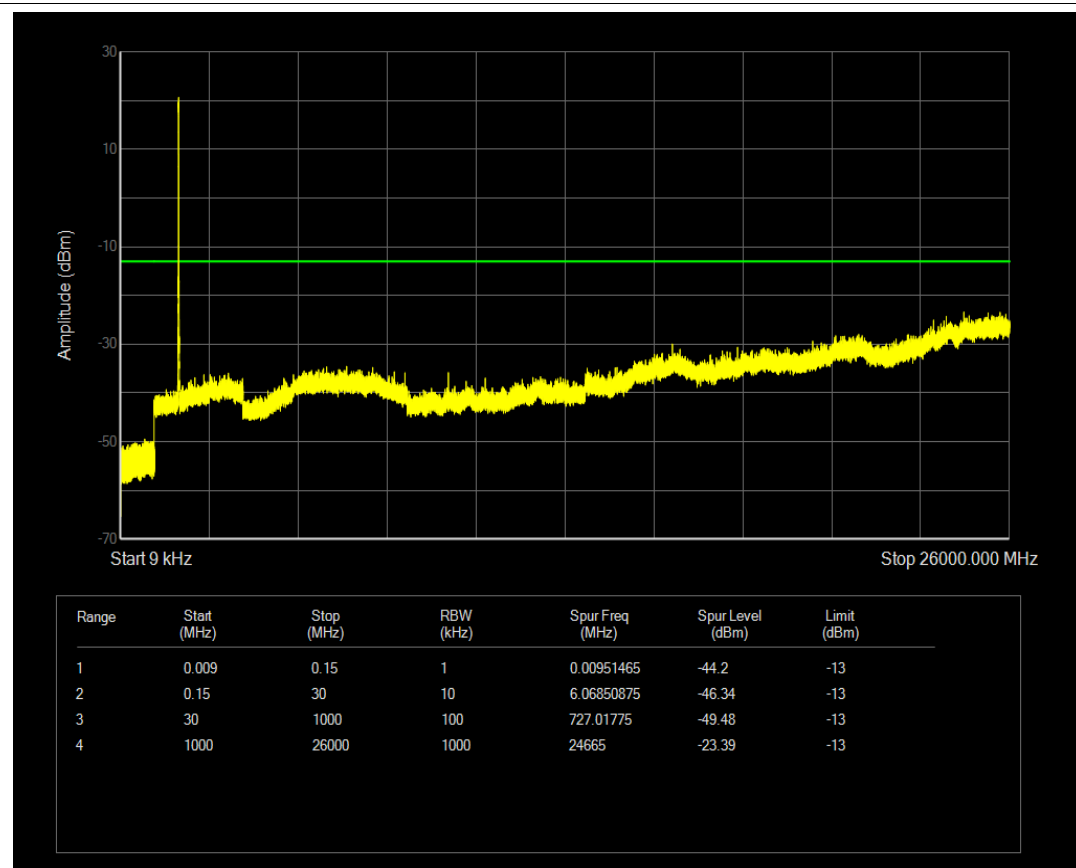


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009038775	-45.81	-13
2	0.15	30	10	6.12671625	-43.76	-13
3	30	1000	100	929.21425	-49.61	-13
4	1000	26000	1000	25611.875	-22.97	-13

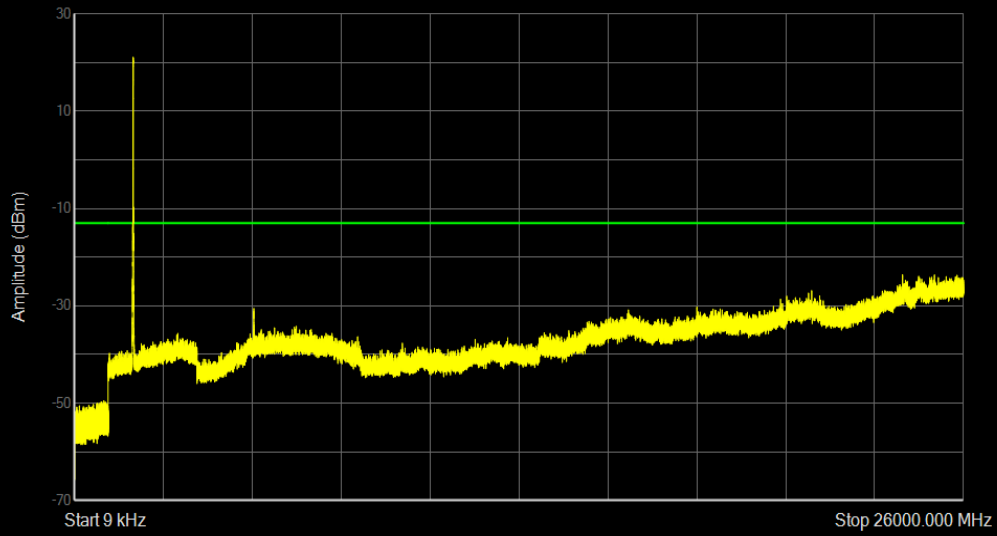
Band4 16QAM BW=5MHz Channel=20375 RB Size=25 Position=#0 NVNT



Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0 NVNT

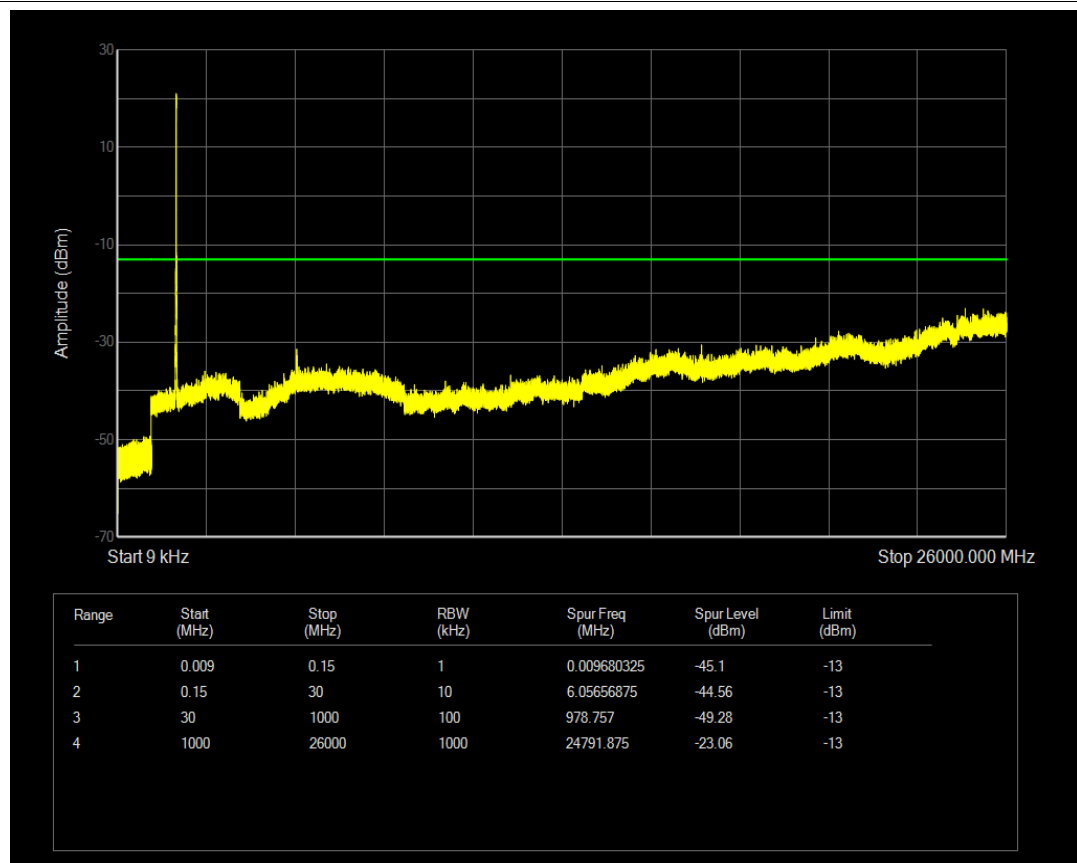


Band4 16QAM BW=10MHz Channel=20000 RB Size=50 Position=#0 NVNT

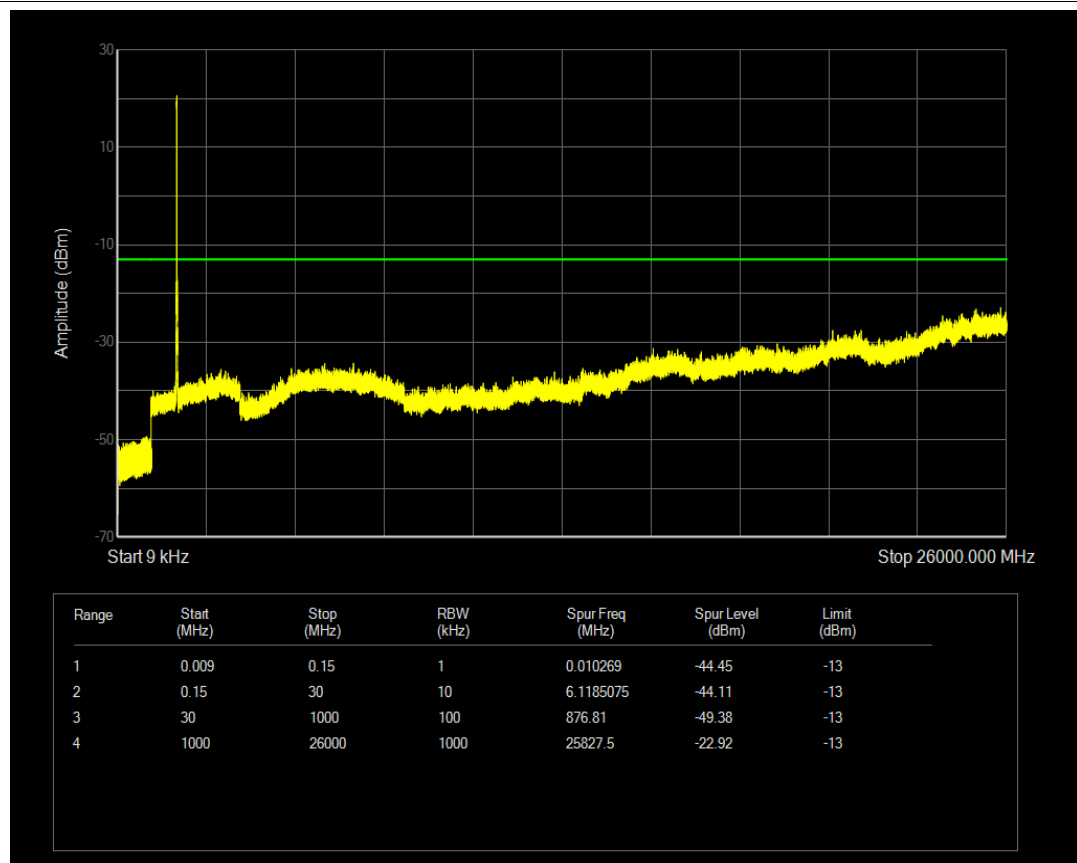


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.117312675	-45.37	-13
2	0.15	30	10	6.09686625	-44.46	-13
3	30	1000	100	876.9555	-49.52	-13
4	1000	26000	1000	24217.5	-23.61	-13

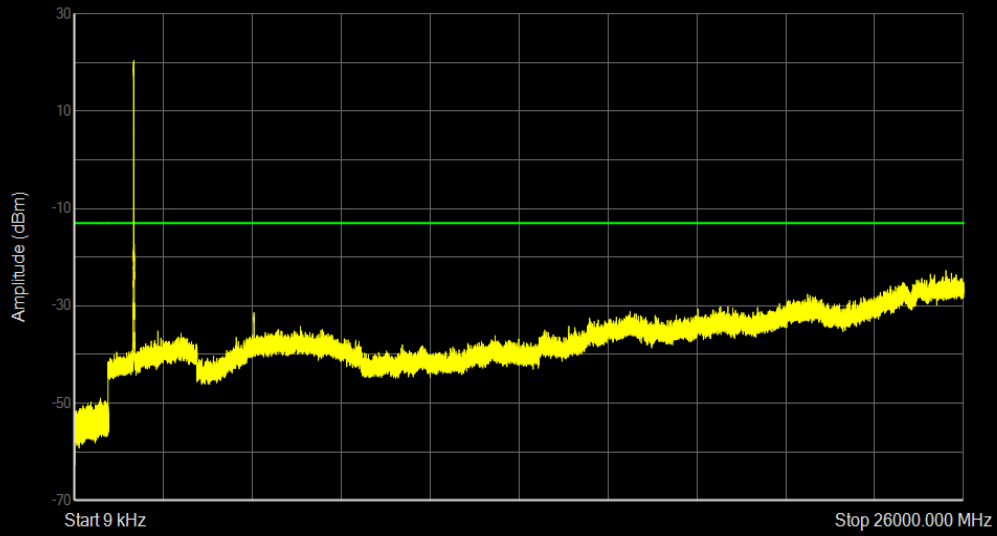
Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0 NVNT



Band4 16QAM BW=10MHz Channel=20175 RB Size=50 Position=#0 NVNT

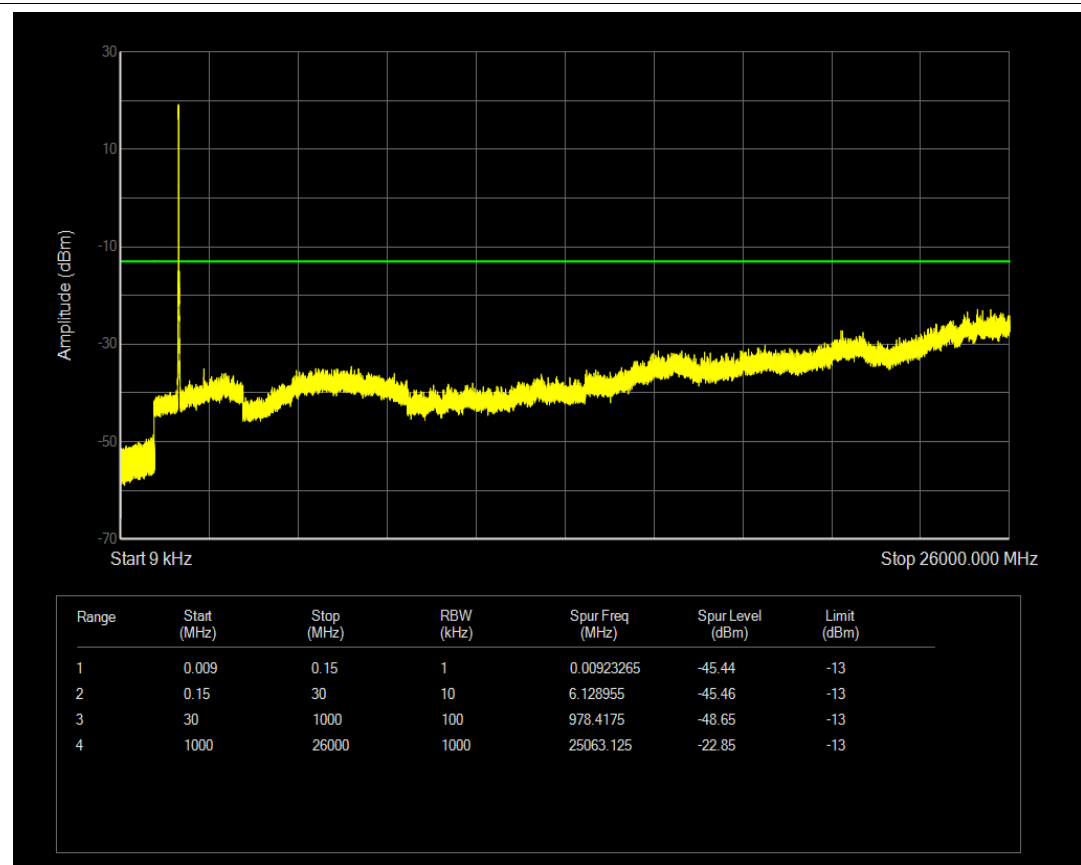


Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0 NVNT

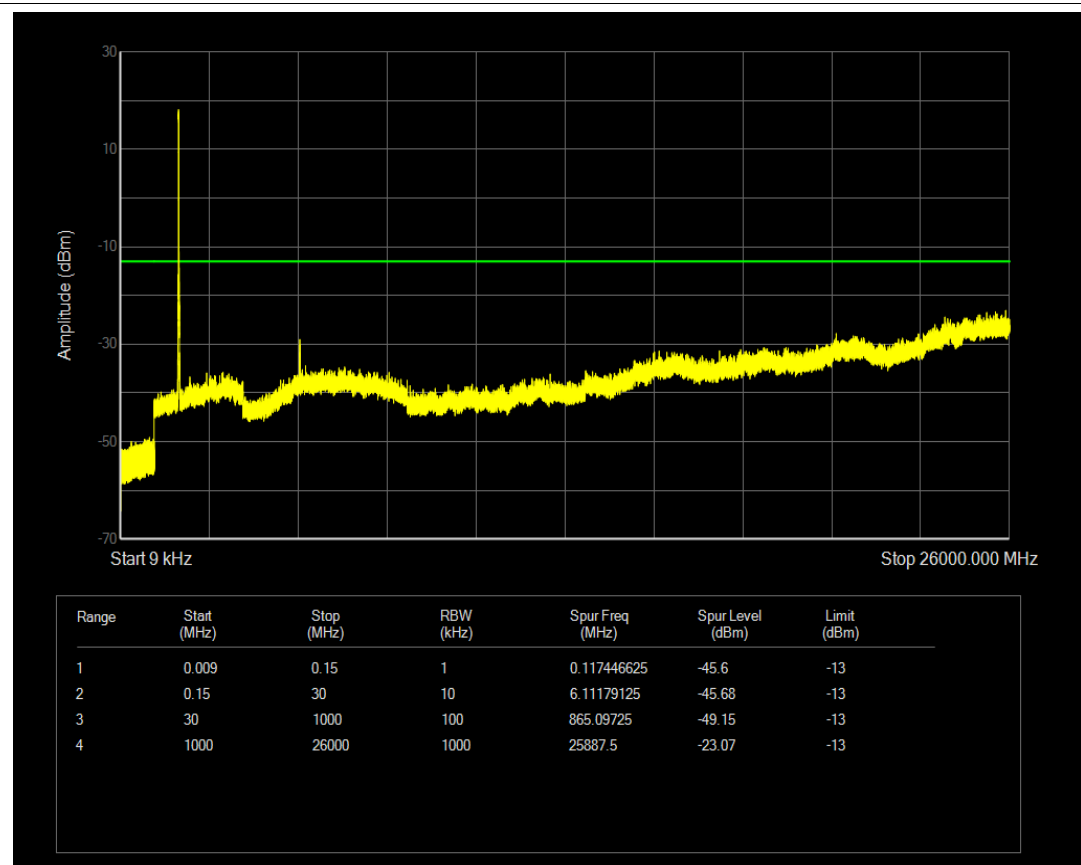


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010187925	-44.48	-13
2	0.15	30	10	6.06850875	-45.92	-13
3	30	1000	100	777.773	-49.01	-13
4	1000	26000	1000	25485	-22.75	-13

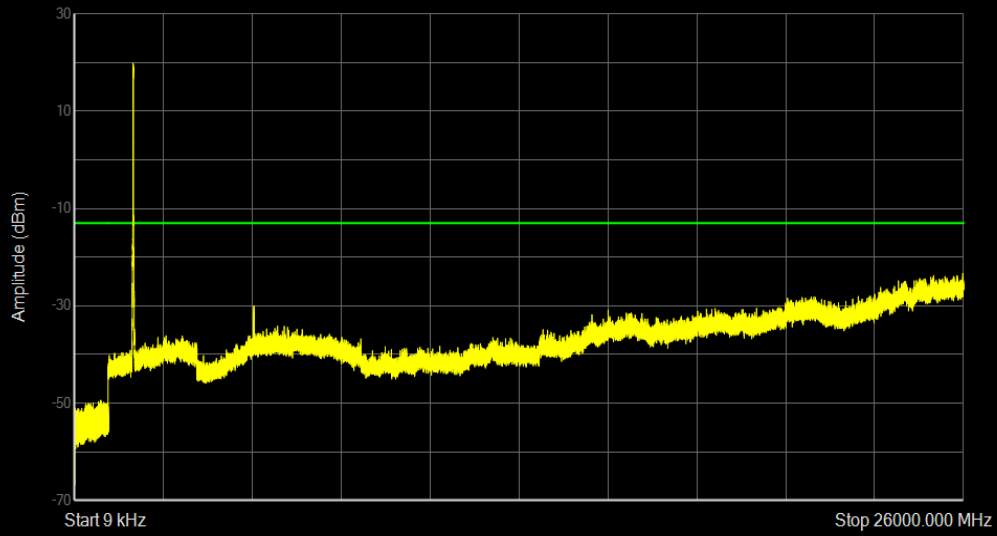
Band4 16QAM BW=10MHz Channel=20350 RB Size=50 Position=#0 NVNT



Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0 NVNT

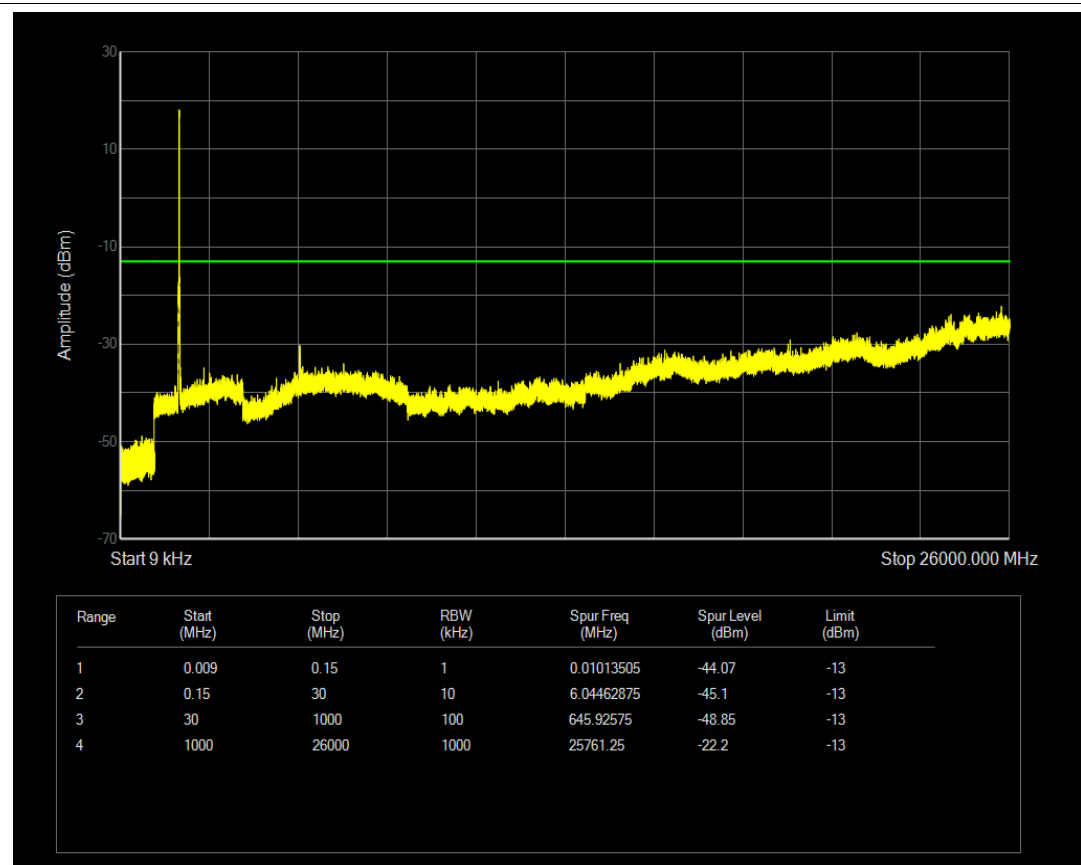


Band4 16QAM BW=15MHz Channel=20025 RB Size=75 Position=#0 NVNT

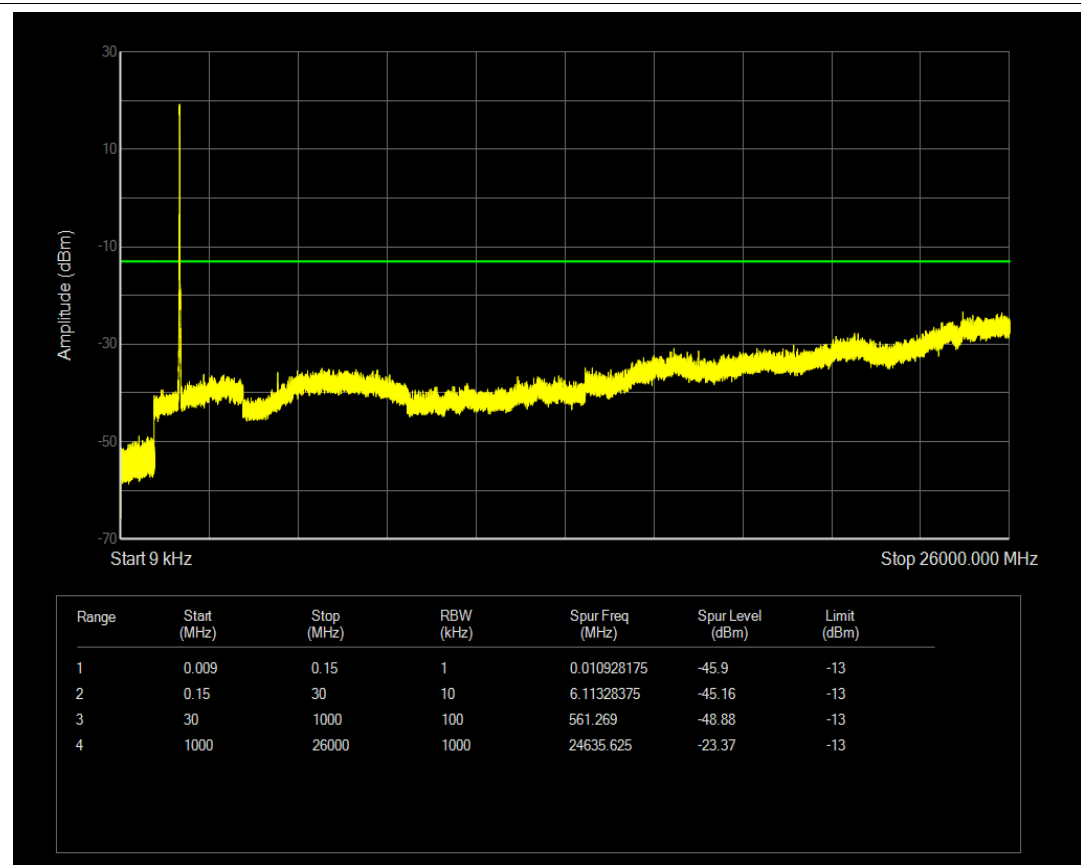


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010321875	-44.47	-13
2	0.15	30	10	6.1244775	-45.3	-13
3	30	1000	100	785.89675	-49.44	-13
4	1000	26000	1000	25978.75	-23.32	-13

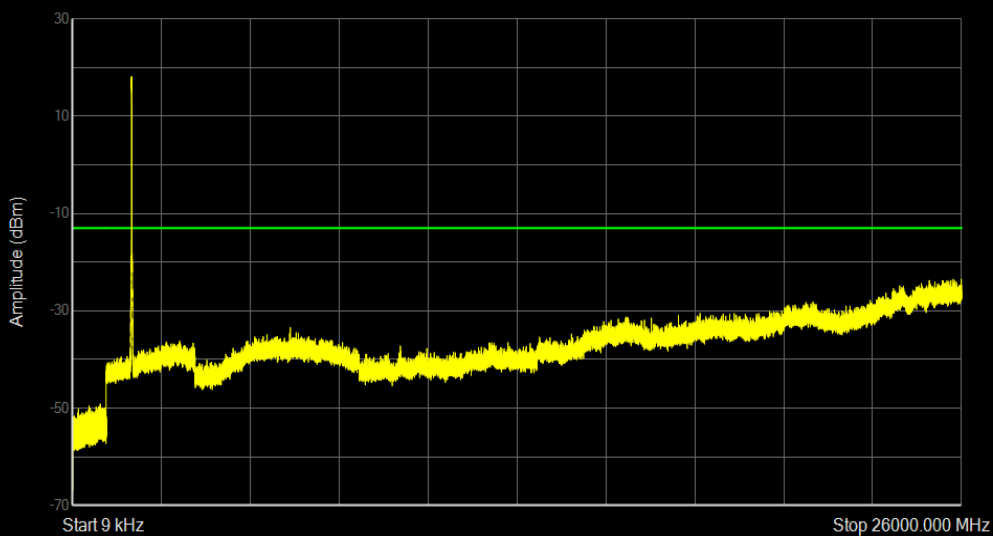
Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0 NVNT



Band4 16QAM BW=15MHz Channel=20175 RB Size=75 Position=#0 NVNT

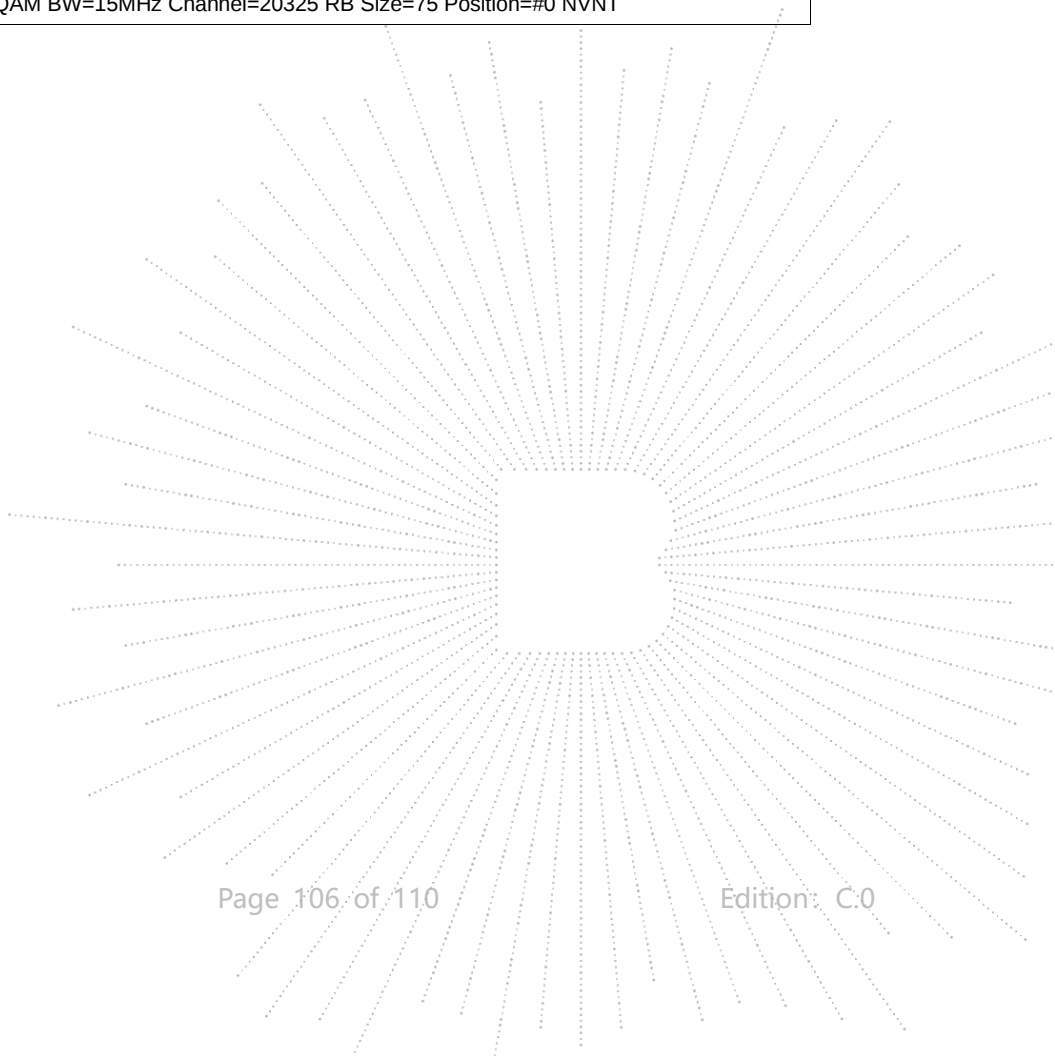


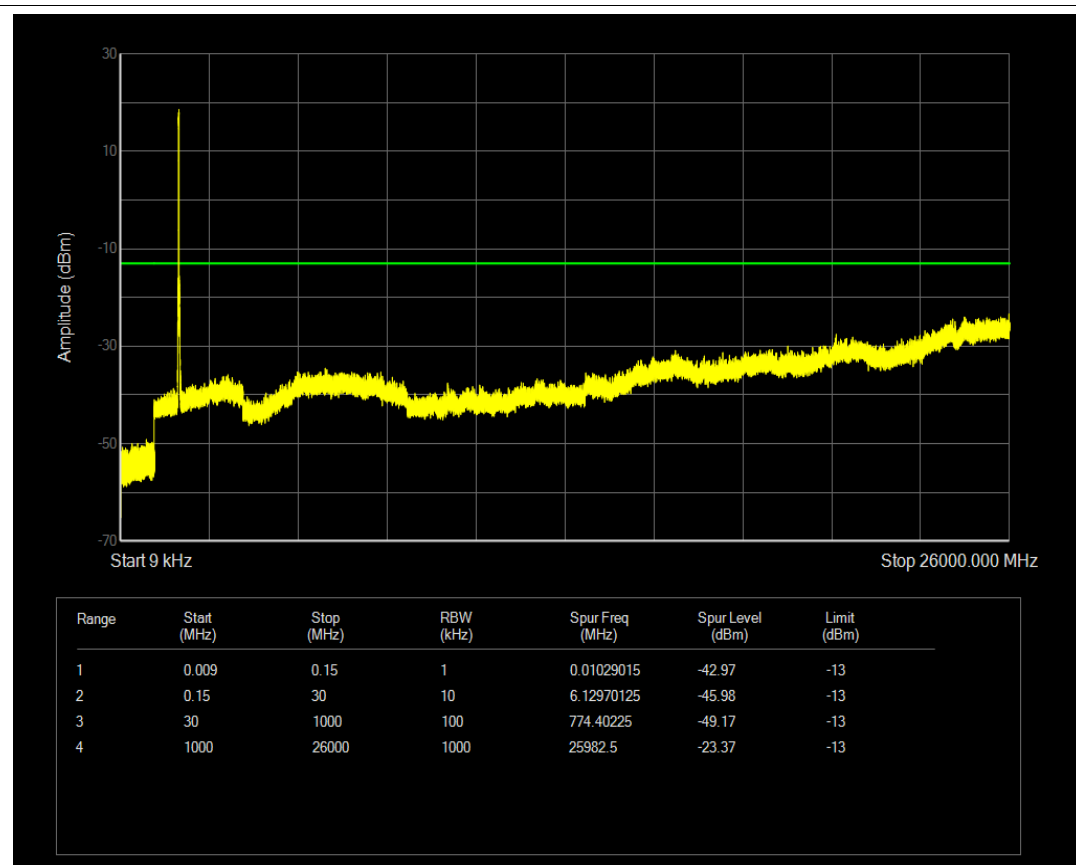
Band4 QPSK BW=15MHz Channel=20325 RB Size=75 Position=#0 NVNT



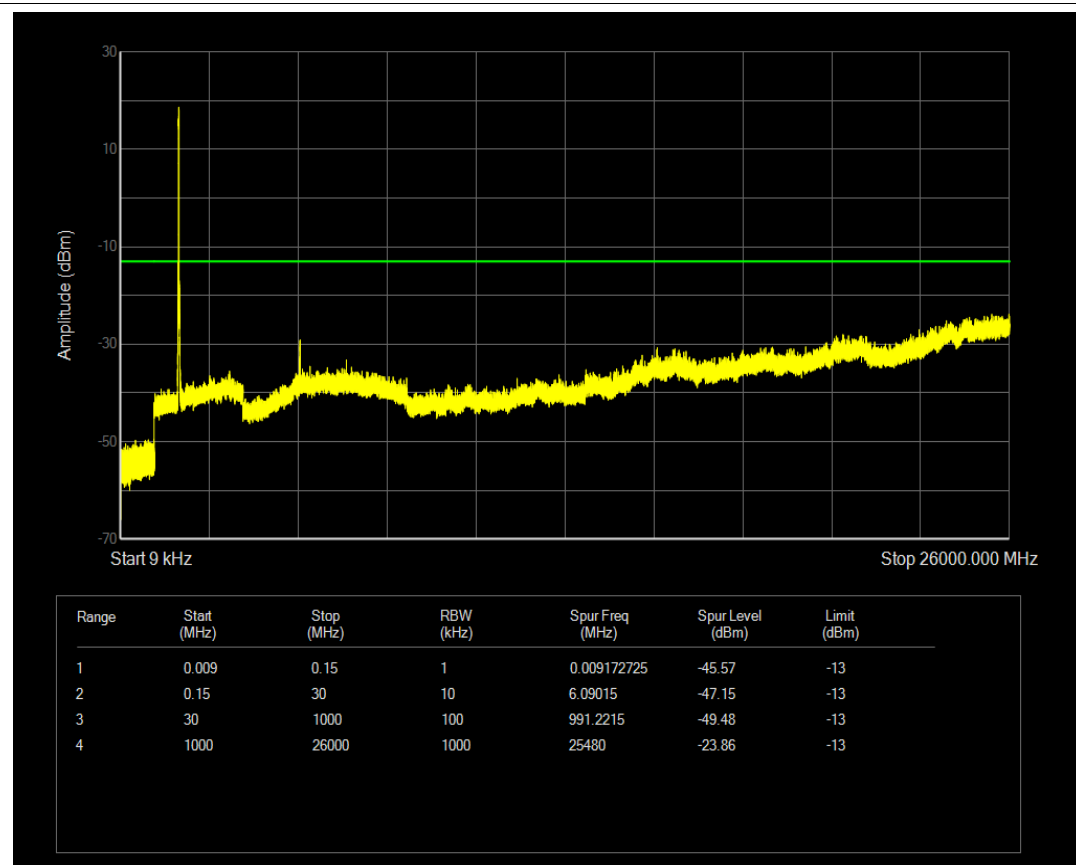
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0091833	-45.83	-13
2	0.15	30	10	6.134925	-45.61	-13
3	30	1000	100	831.14725	-49.14	-13
4	1000	26000	1000	25989.375	-23.49	-13

Band4 16QAM BW=15MHz Channel=20325 RB Size=75 Position=#0 NVNT

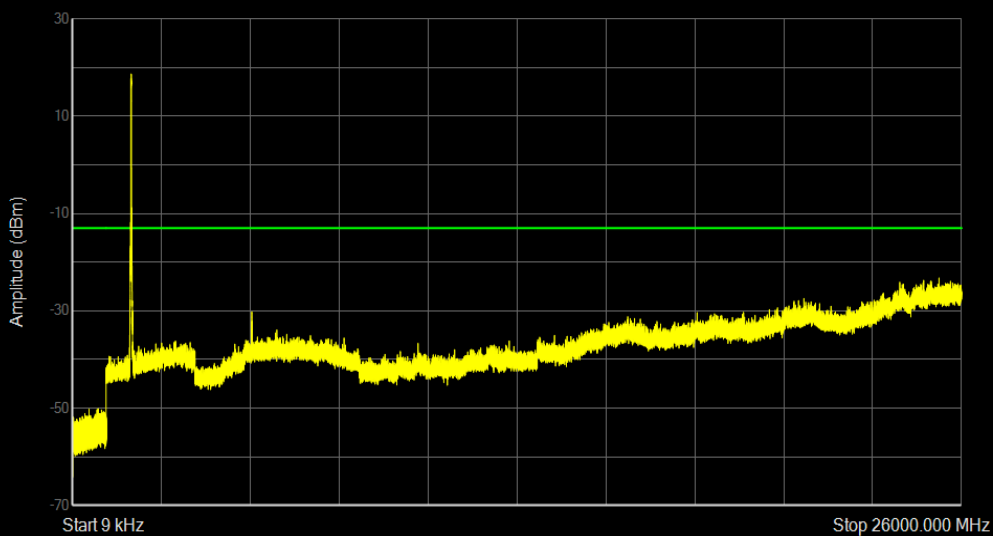




Band4 QPSK BW=20MHz Channel=20050 RB Size=100 Position=#0 NVNT

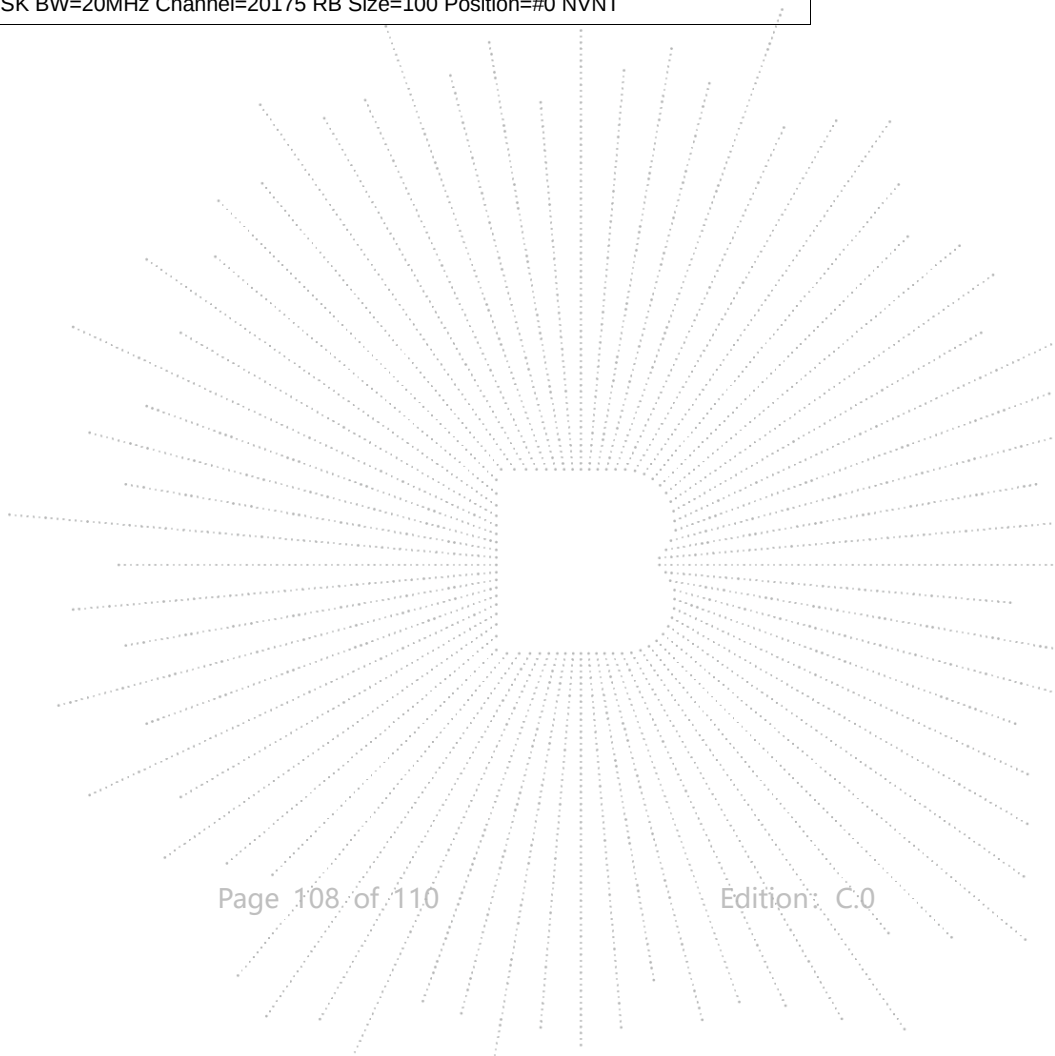


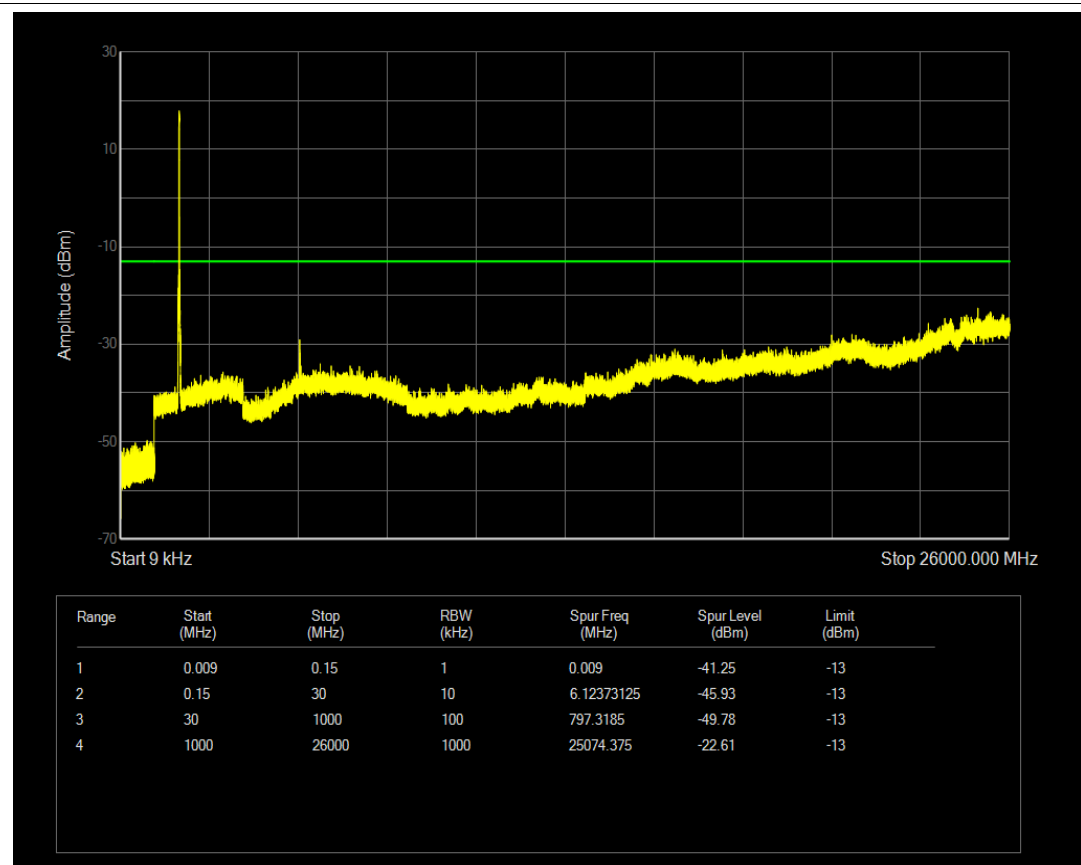
Band4 16QAM BW=20MHz Channel=20050 RB Size=100 Position=#0 NVNT



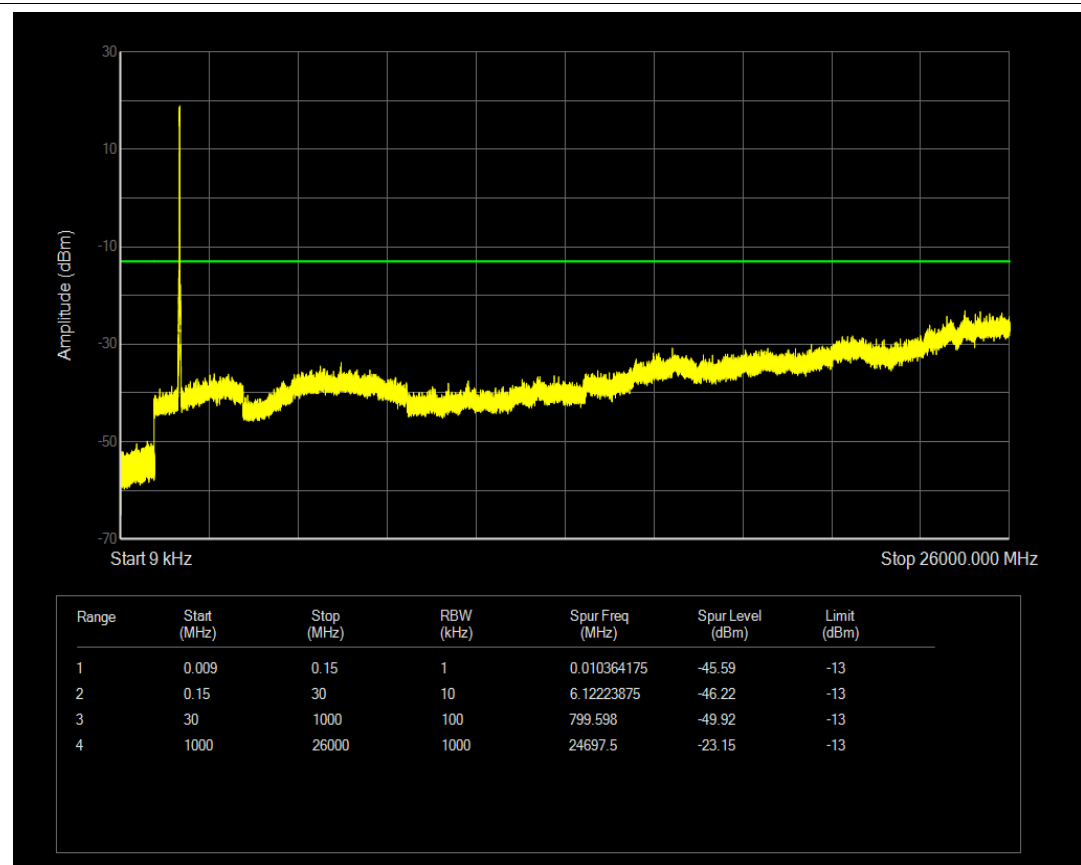
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009165675	-45.6	-13
2	0.15	30	10	6.09388125	-46.54	-13
3	30	1000	100	778.71875	-50.13	-13
4	1000	26000	1000	25341.25	-23.27	-13

Band4 QPSK BW=20MHz Channel=20175 RB Size=100 Position=#0 NVNT

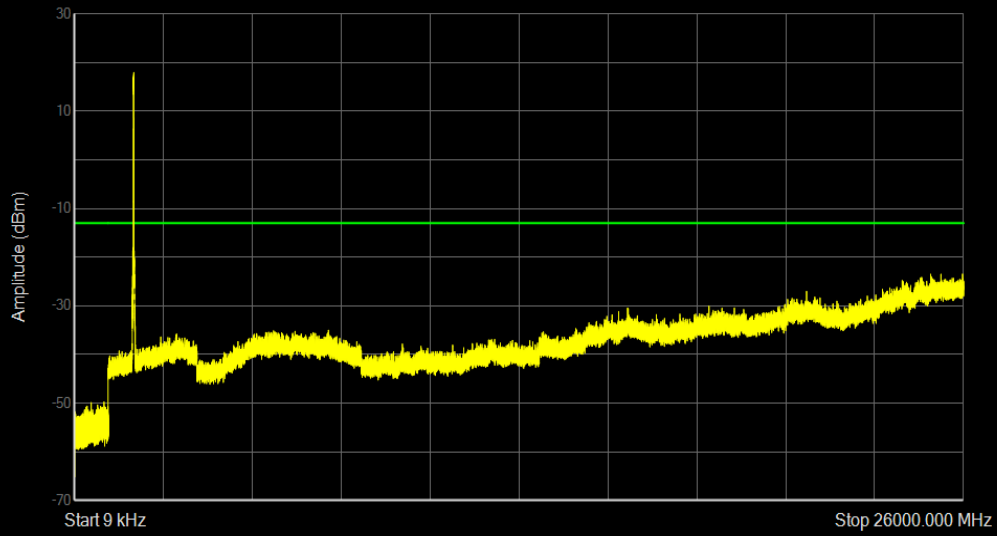




Band4 16QAM BW=20MHz Channel=20175 RB Size=100 Position=#0 NVNT



Band4 QPSK BW=20MHz Channel=20300 RB Size=100 Position=#0 NVNT



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.117411375	-45.58	-13
2	0.15	30	10	6.07821	-45.29	-13
3	30	1000	100	882.21775	-49.77	-13
4	1000	26000	1000	25970	-23.46	-13

Band4 16QAM BW=20MHz Channel=20300 RB Size=100 Position=#0 NVNT