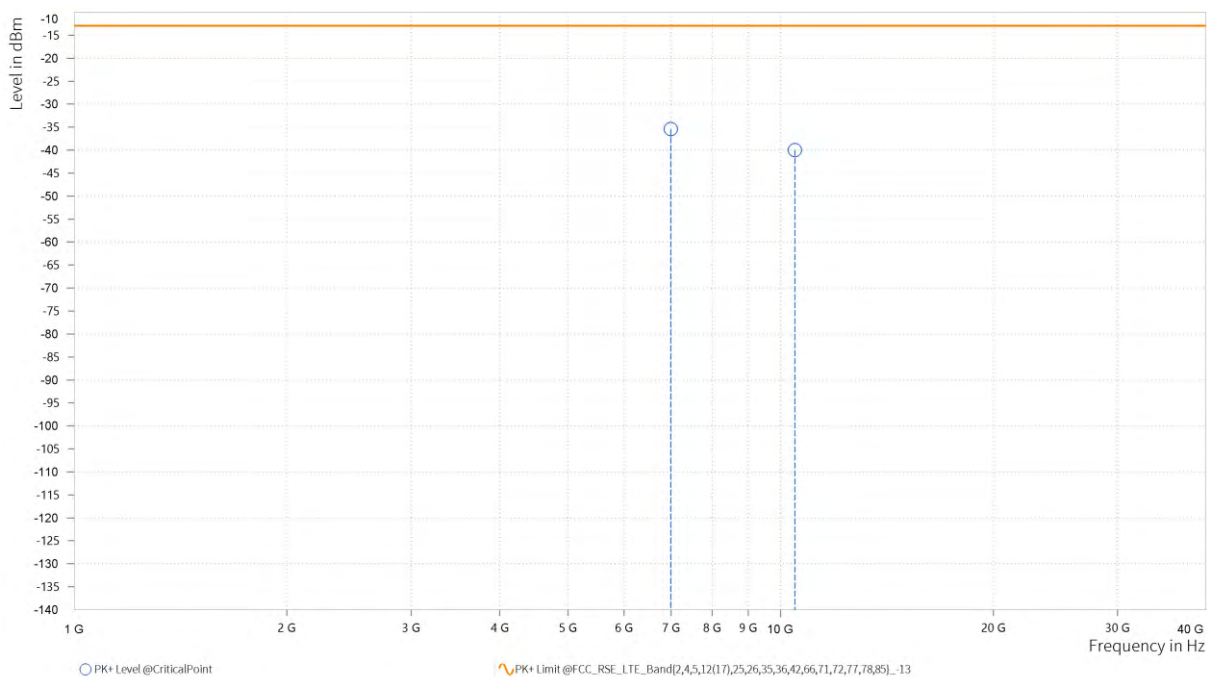


MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

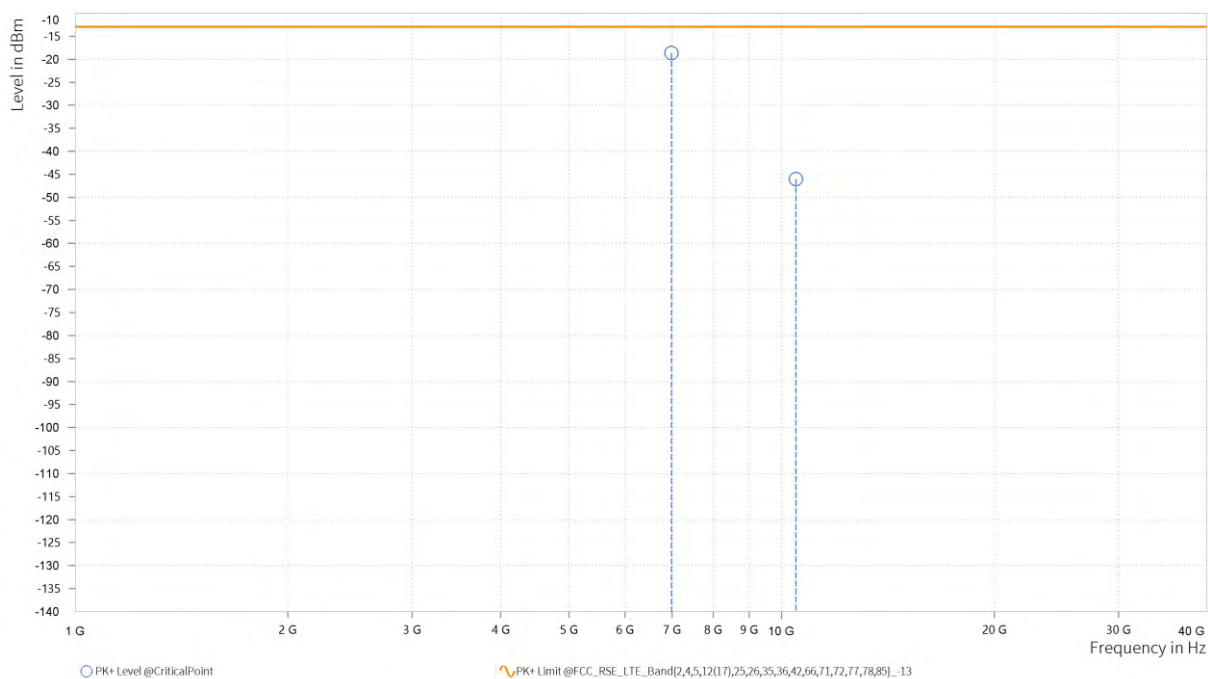
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,987.000	-35.43	-13.00	22.43	29.08	V	359	2
6	10,480.000	-39.99	-13.00	26.99	18.16	V	1	1



CHANNEL BANDWIDTH: 20MHz / QPSK

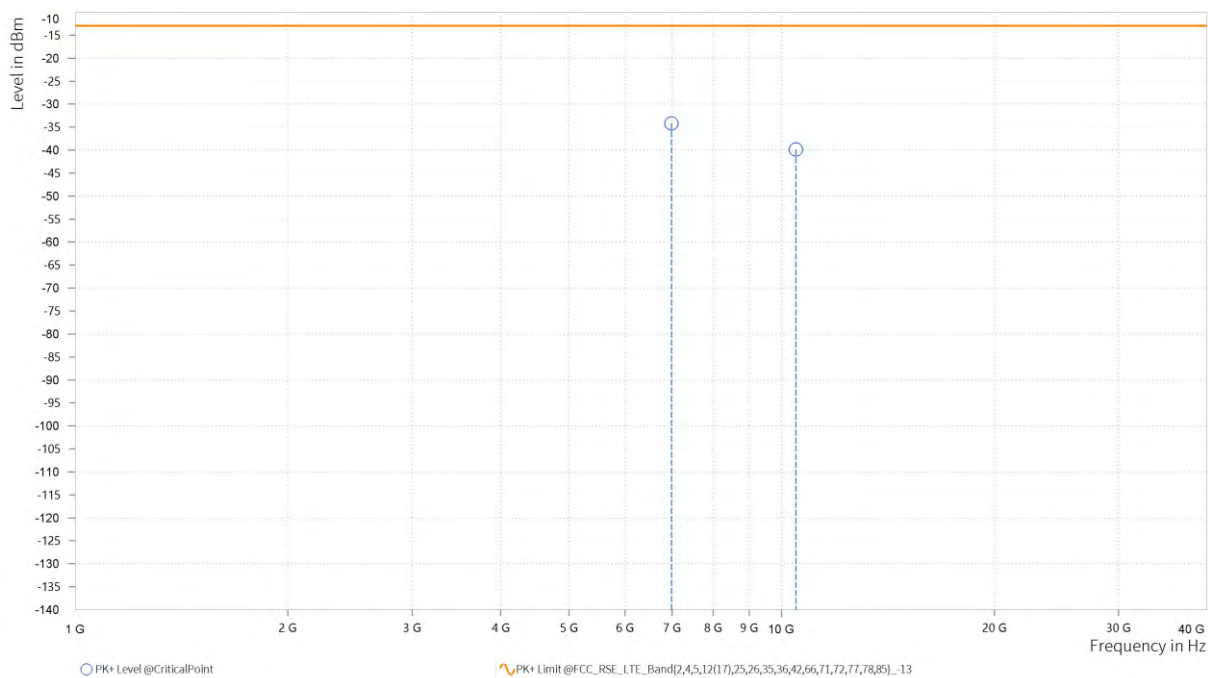
MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,982.000	-18.62	-13.00	5.62	28.89	H	309	1
6	10,473.030	-46.04	-13.00	33.04	18.37	H	0.9	2



MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

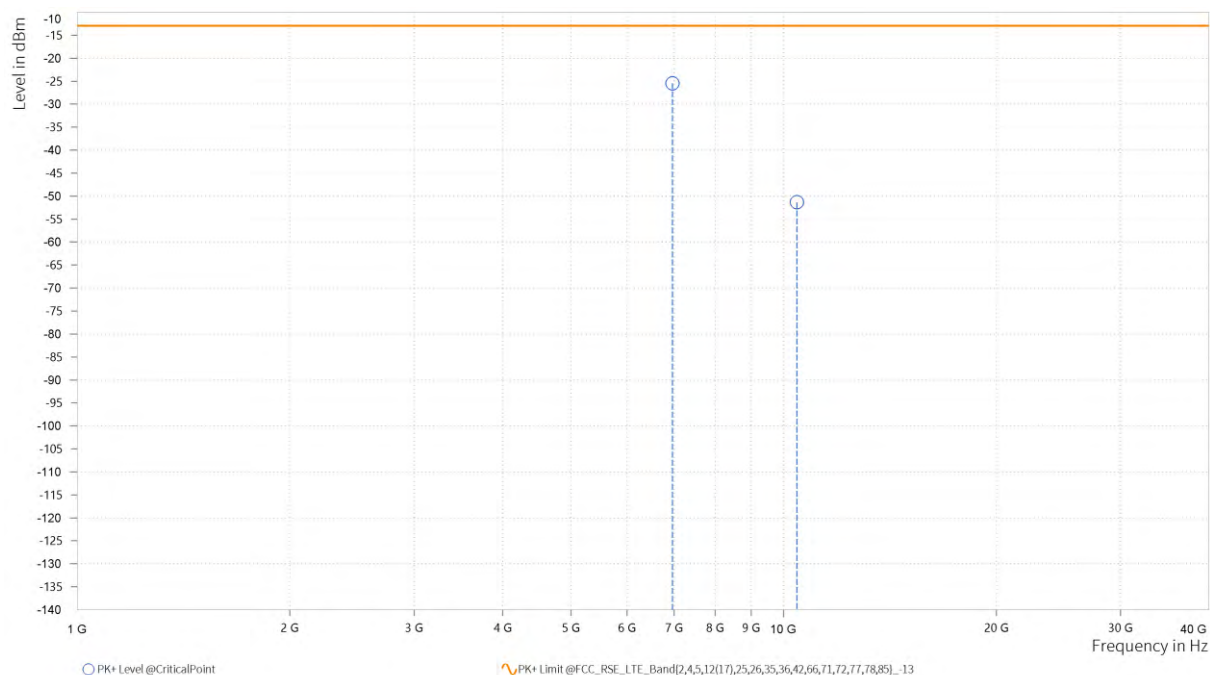
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,982.500	-34.16	-13.00	21.16	28.95	V	359	2
6	10,472.500	-39.81	-13.00	26.81	18.14	V	1	1



CHANNEL BANDWIDTH: 40MHz / QPSK

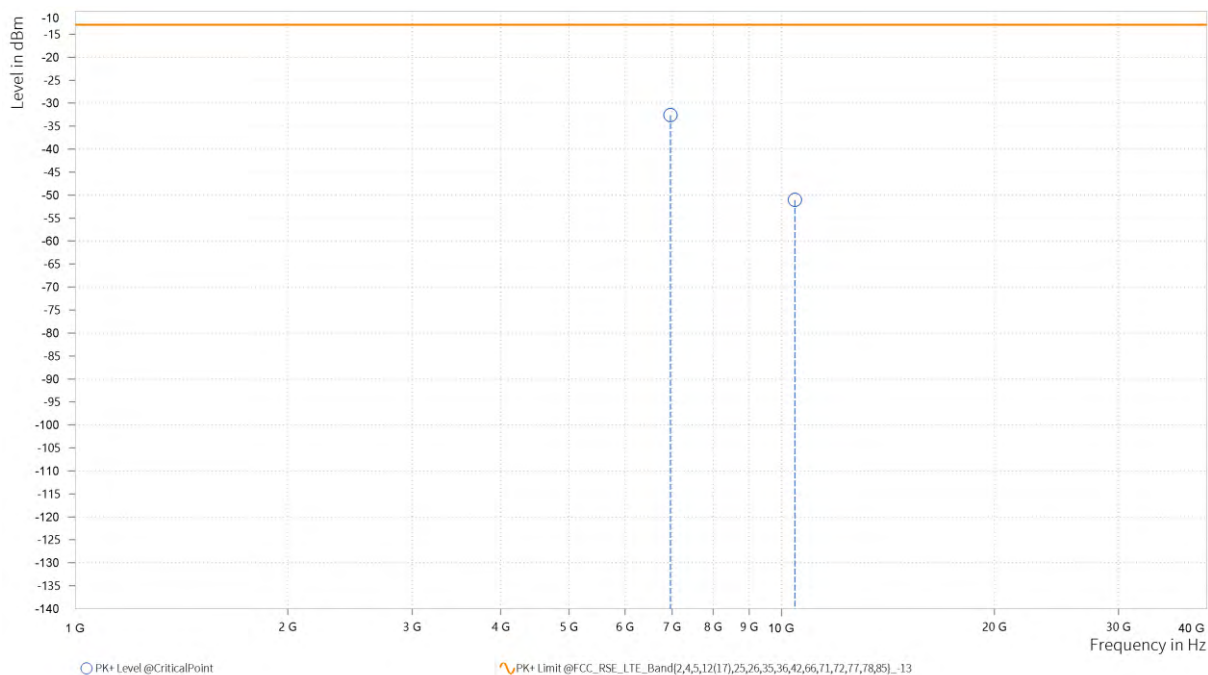
MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,962.000	-25.46	-13.00	12.46	28.66	H	359	2
6	10,446.000	-51.35	-13.00	38.35	18.25	H	0.9	2



MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

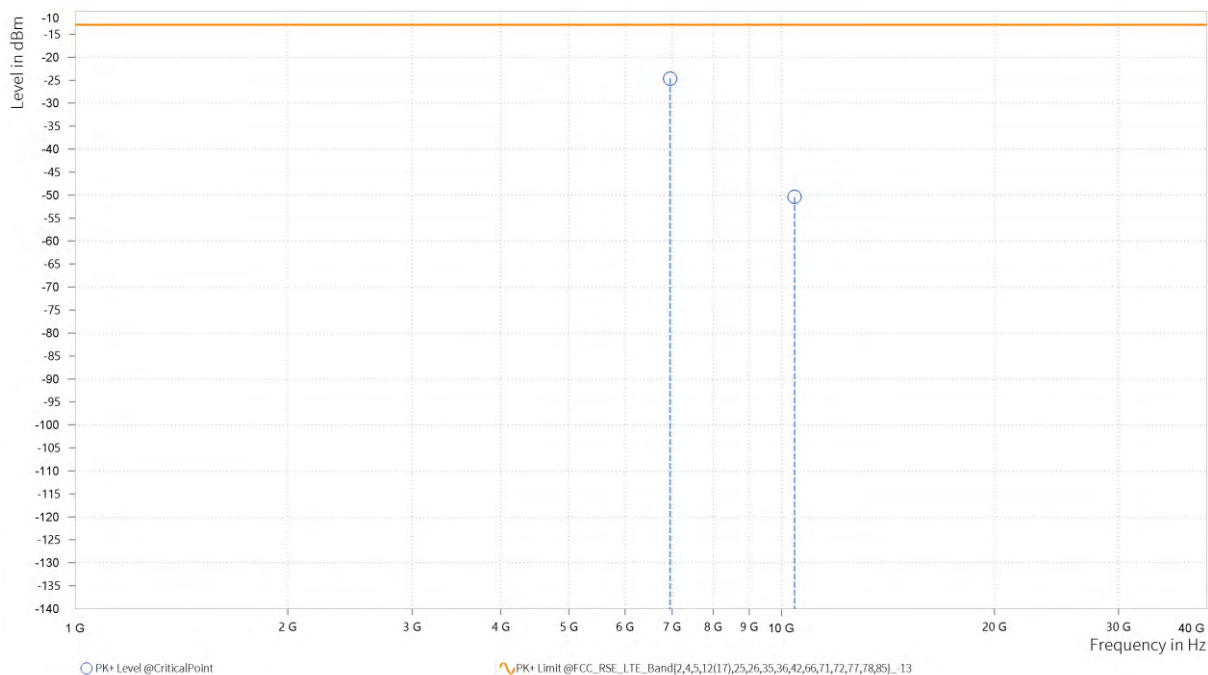
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,962.000	-32.62	-13.00	19.62	28.70	V	359	2
6	10,446.000	-51.05	-13.00	38.05	18.07	V	2.4	2



CHANNEL BANDWIDTH: 50MHz / QPSK

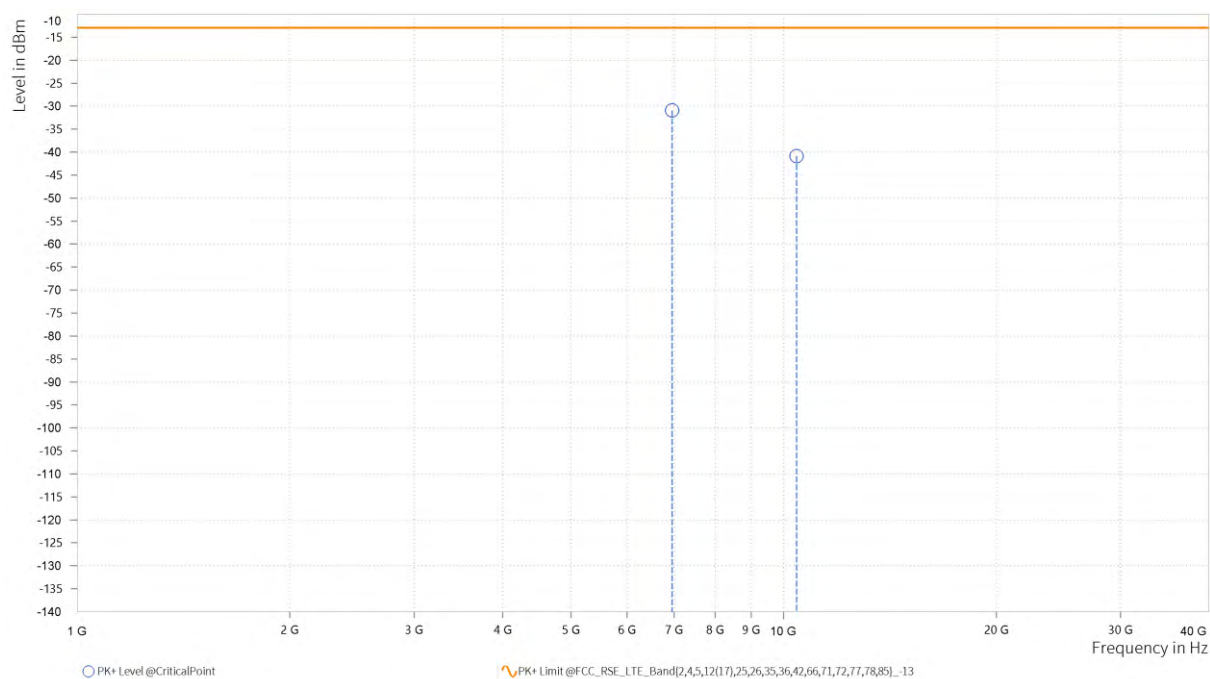
MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,952.500	-24.65	-13.00	11.65	28.55	H	1	1
6	10,432.000	-50.40	-13.00	37.40	18.19	H	357.7	1



MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

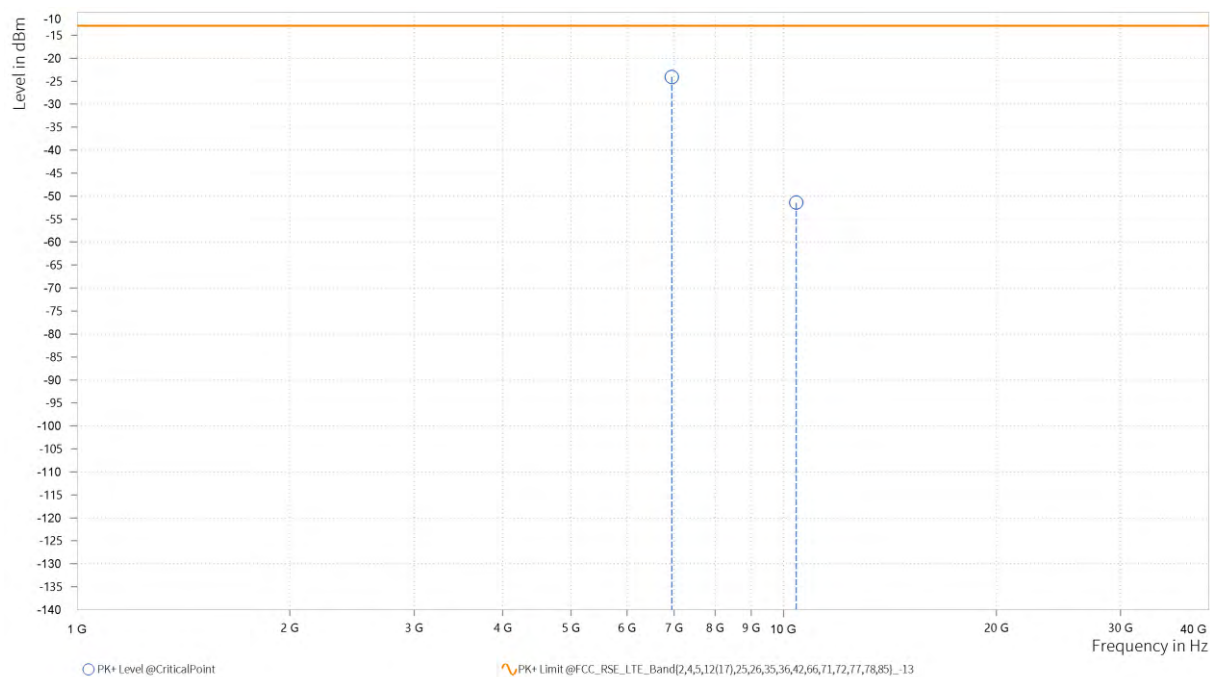
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,952.500	-30.93	-13.00	17.93	28.59	V	52.2	2
6	10,428.500	-40.83	-13.00	27.83	18.02	V	2.3	2



CHANNEL BANDWIDTH: 60MHz / QPSK

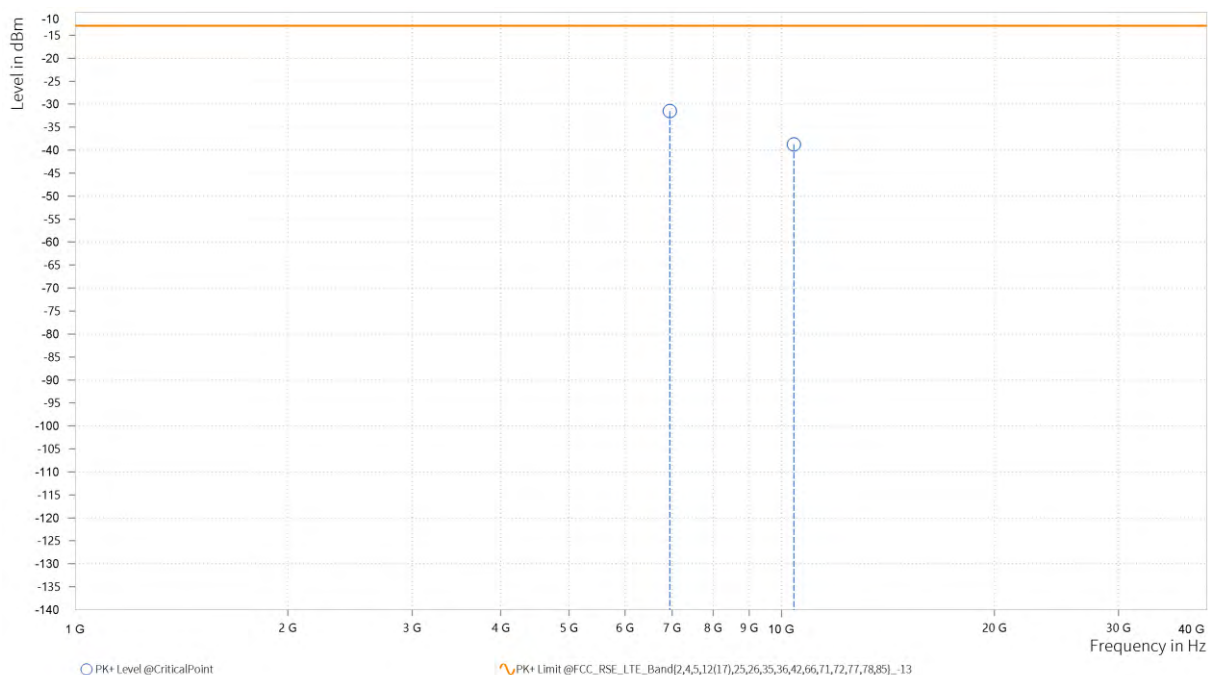
MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,942.500	-24.09	-13.00	11.09	28.41	H	359	2
6	10,419.000	-51.43	-13.00	38.43	18.13	H	357.7	1



MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

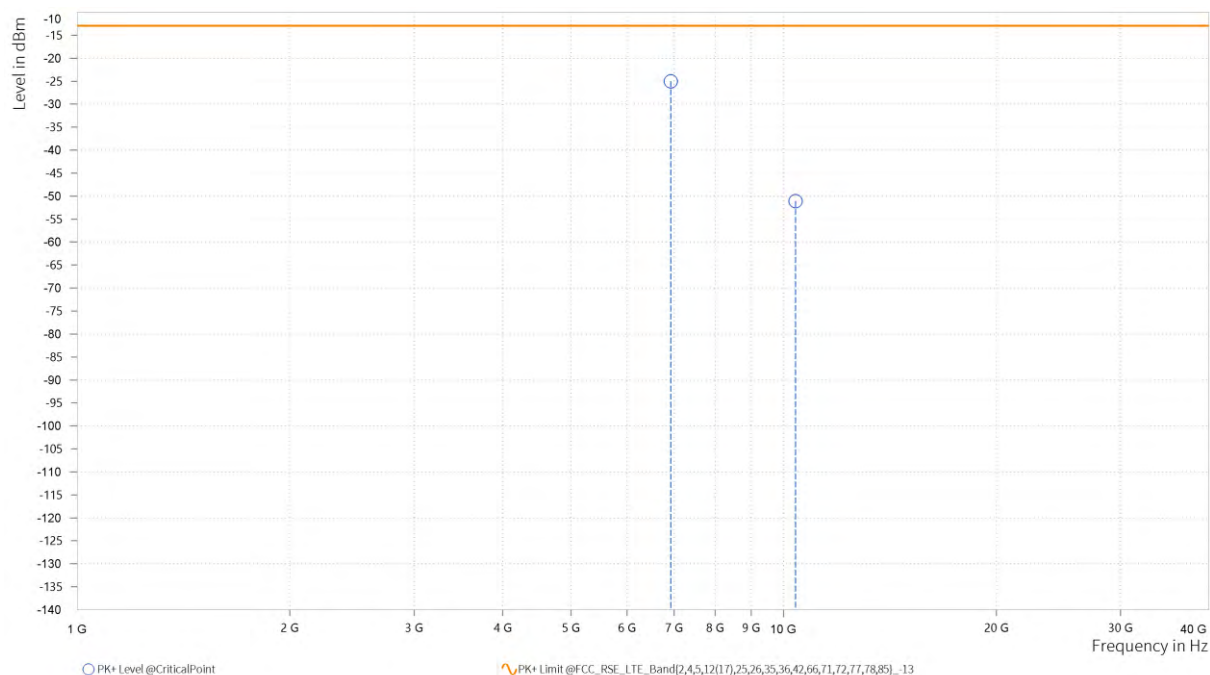
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,942.000	-31.51	-13.00	18.51	28.45	V	52.2	2
6	10,413.000	-38.75	-13.00	25.75	17.94	V	0.9	2



CHANNEL BANDWIDTH:80MHz / QPSK

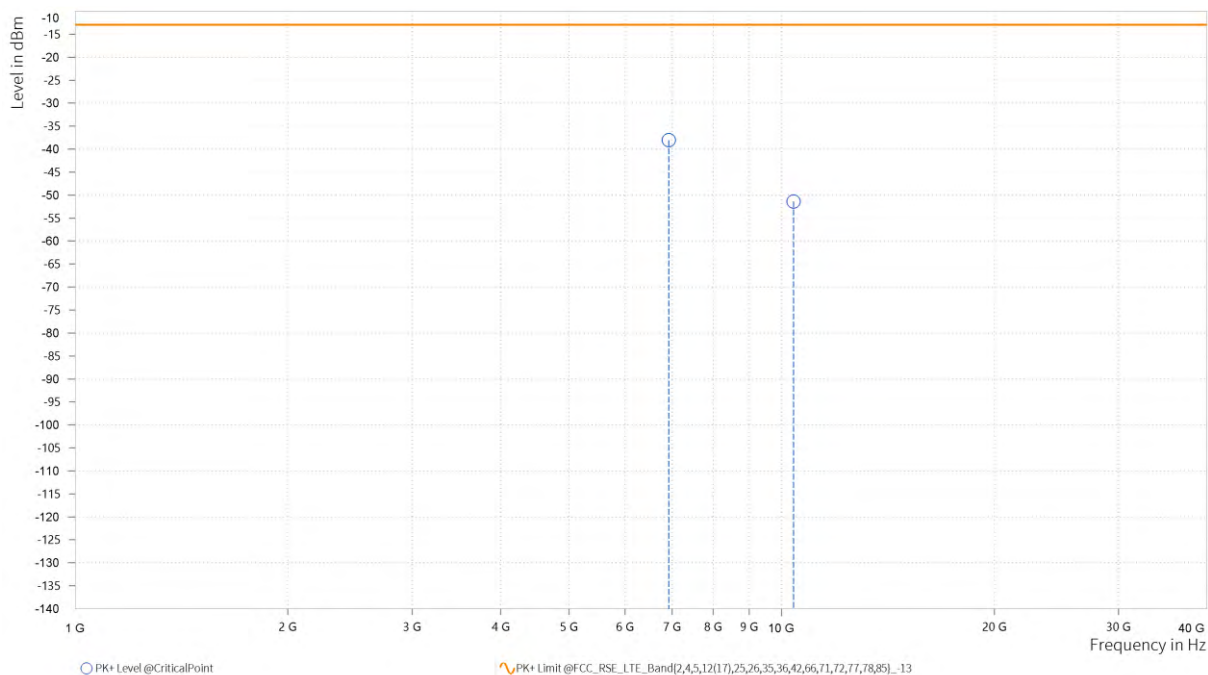
MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,922.000	-25.01	-13.00	12.01	28.31	H	359	2
6	10,392.000	-51.08	-13.00	38.08	18.00	H	359.1	1



MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,922.500	-38.04	-13.00	25.04	28.33	V	1	2
6	10,392.000	-51.36	-13.00	38.36	17.80	V	359.1	1





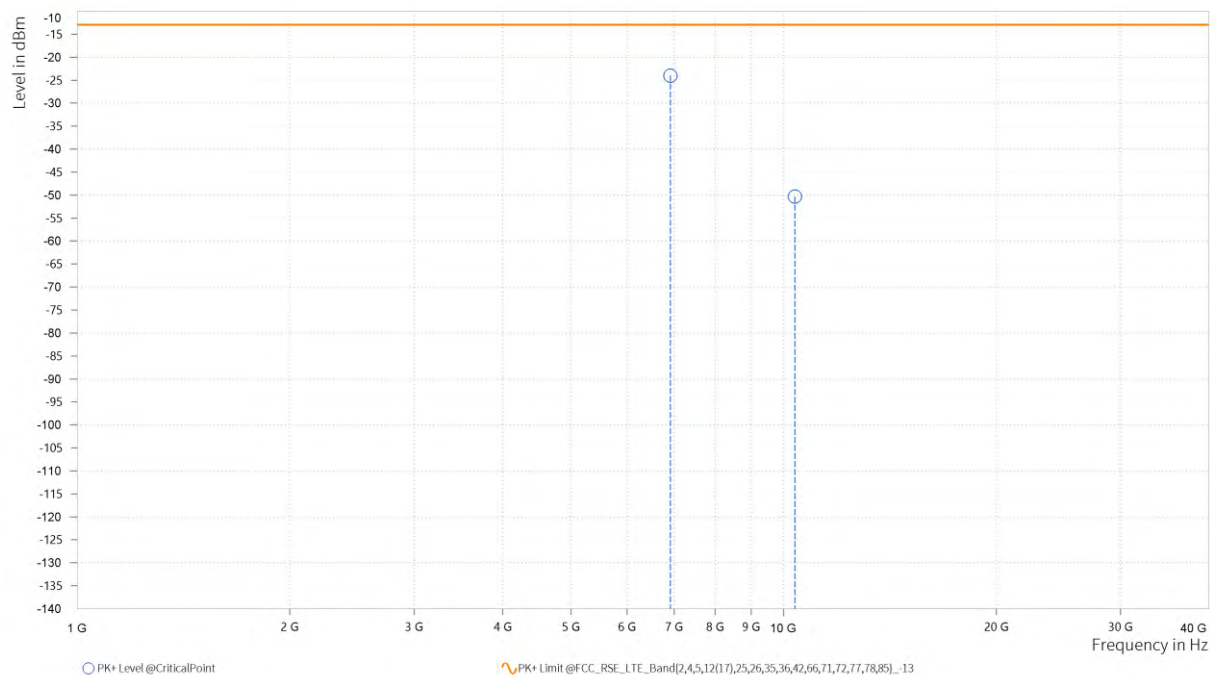
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Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 90MHz / QPSK

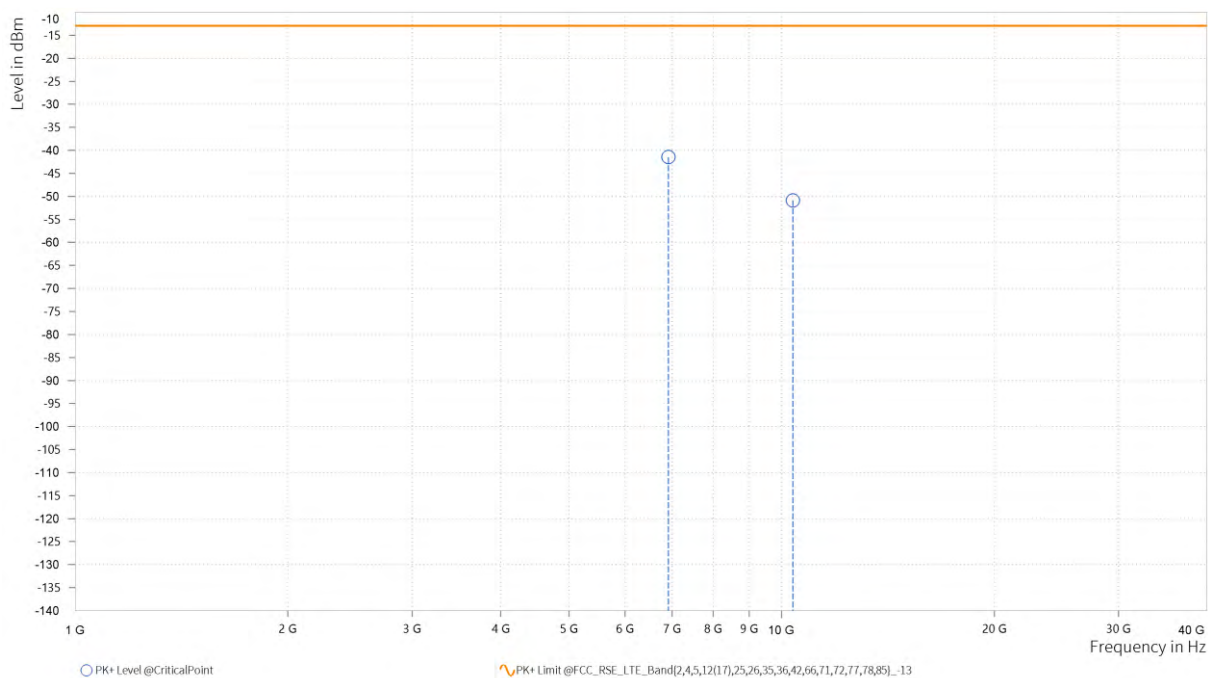
MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,912.000	-24.00	-13.00	11.00	28.32	H	359	2
6	10,378.000	-50.32	-13.00	37.32	17.94	H	357.7	1



MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

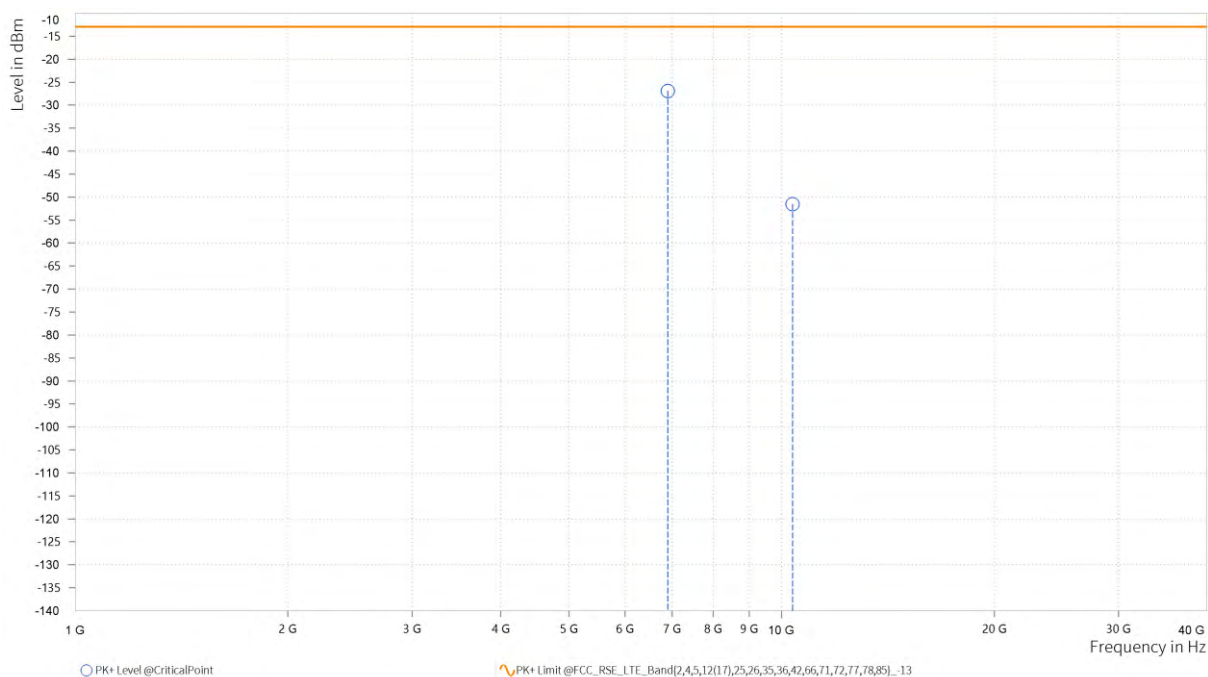
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,912.500	-41.46	-13.00	28.46	28.30	V	1	2
6	10,378.000	-50.86	-13.00	37.86	17.70	V	1	2



CHANNEL BANDWIDTH: 100MHz / QPSK

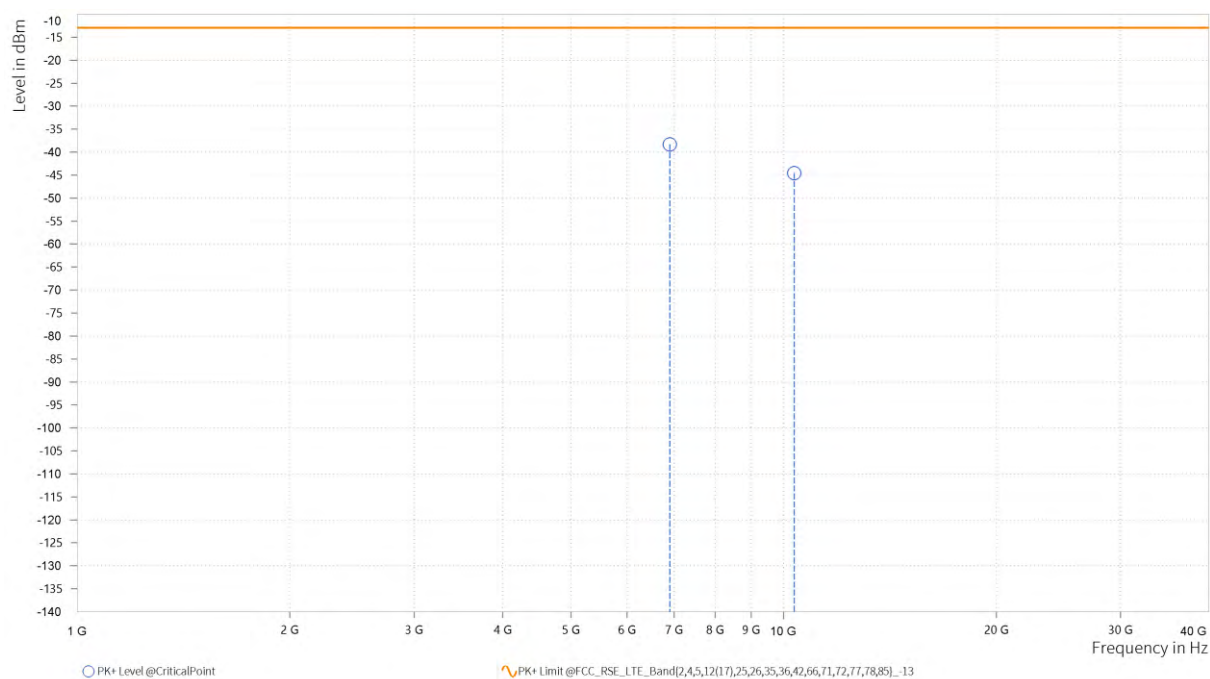
MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,901.500	-26.90	-13.00	13.90	28.38	H	312.6	1
6	10,365.000	-51.52	-13.00	38.52	17.88	H	357.8	1



MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,902.000	-38.32	-13.00	25.32	28.34	V	359	2
6	10,352.500	-44.54	-13.00	31.54	17.53	V	1	2





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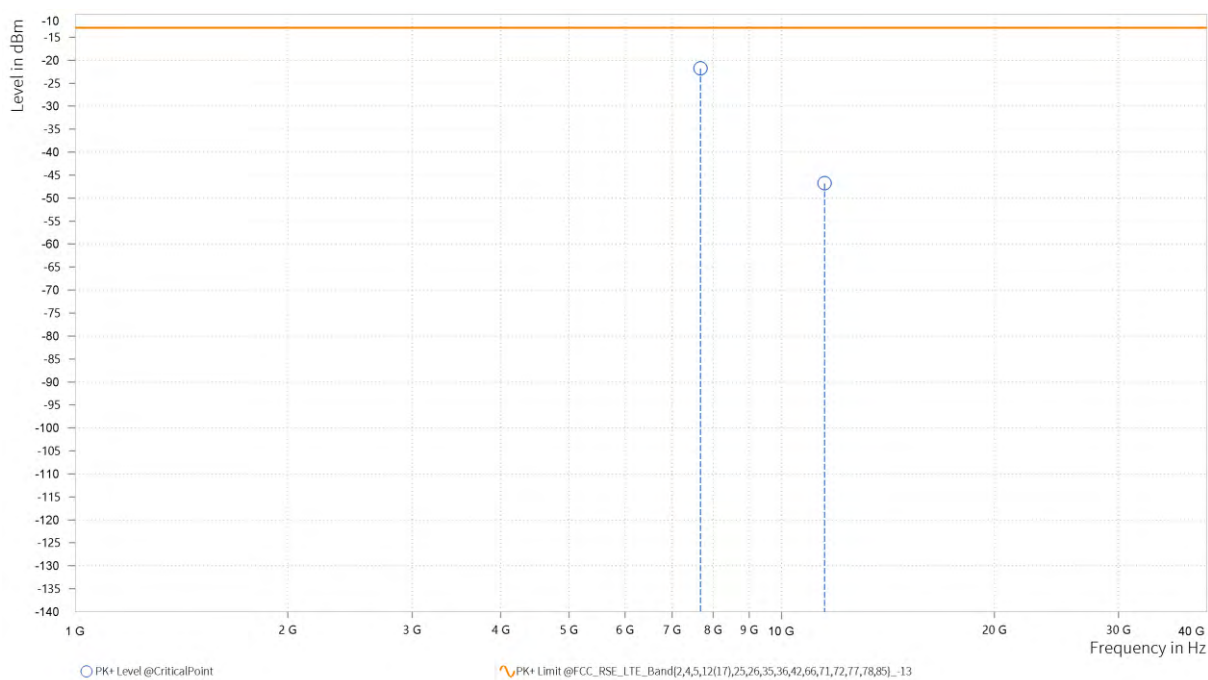
Test Report No.: PSU-QSU2306120115RF10

N77(Part 270):

CHANNEL BANDWIDTH: 10MHz / QPSK

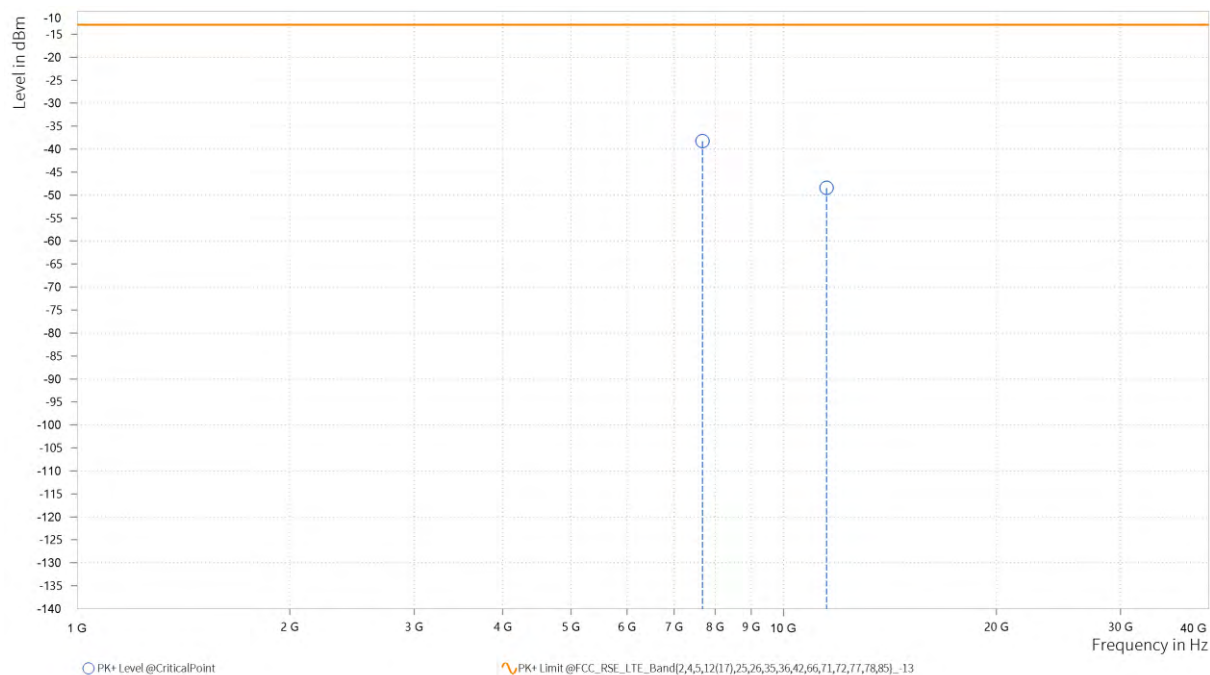
MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,672.000	-21.77	-13.00	8.77	29.07	H	359.1	1
6	11,506.500	-46.77	-13.00	33.77	20.23	H	359.1	1



MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

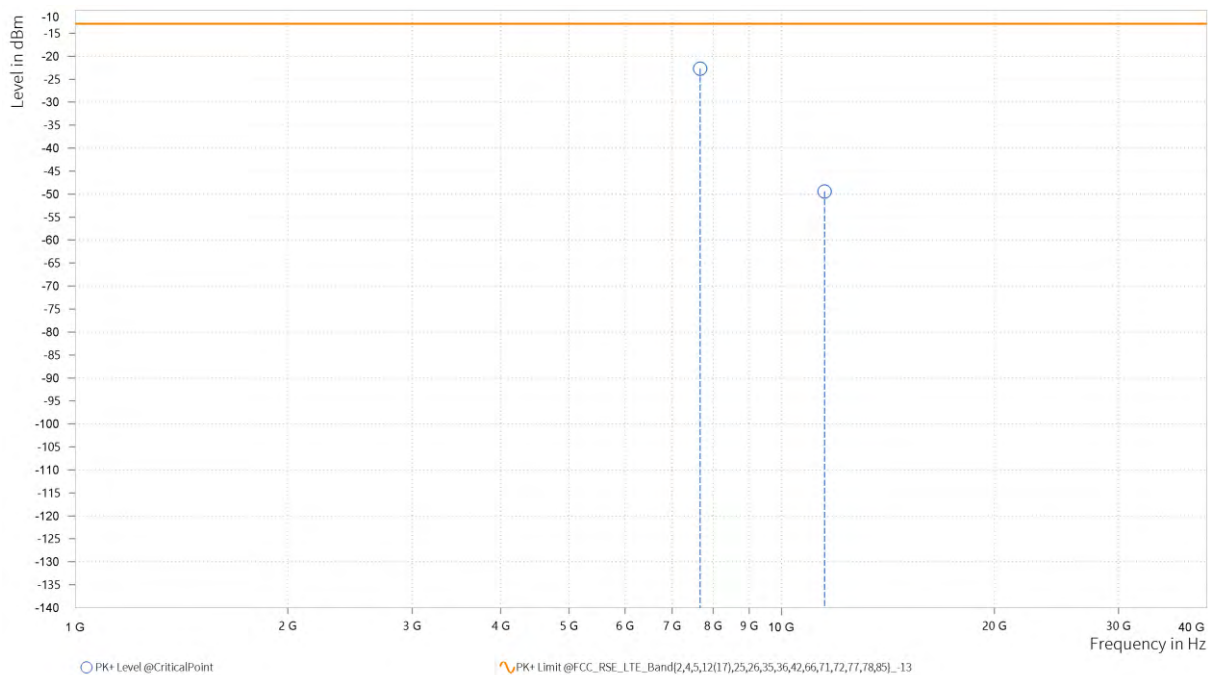
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,672.000	-38.28	-13.00	25.28	28.91	V	358.1	1
6	11,506.500	-48.43	-13.00	35.43	20.34	V	1	2



CHANNEL BANDWIDTH: 15MHz / QPSK

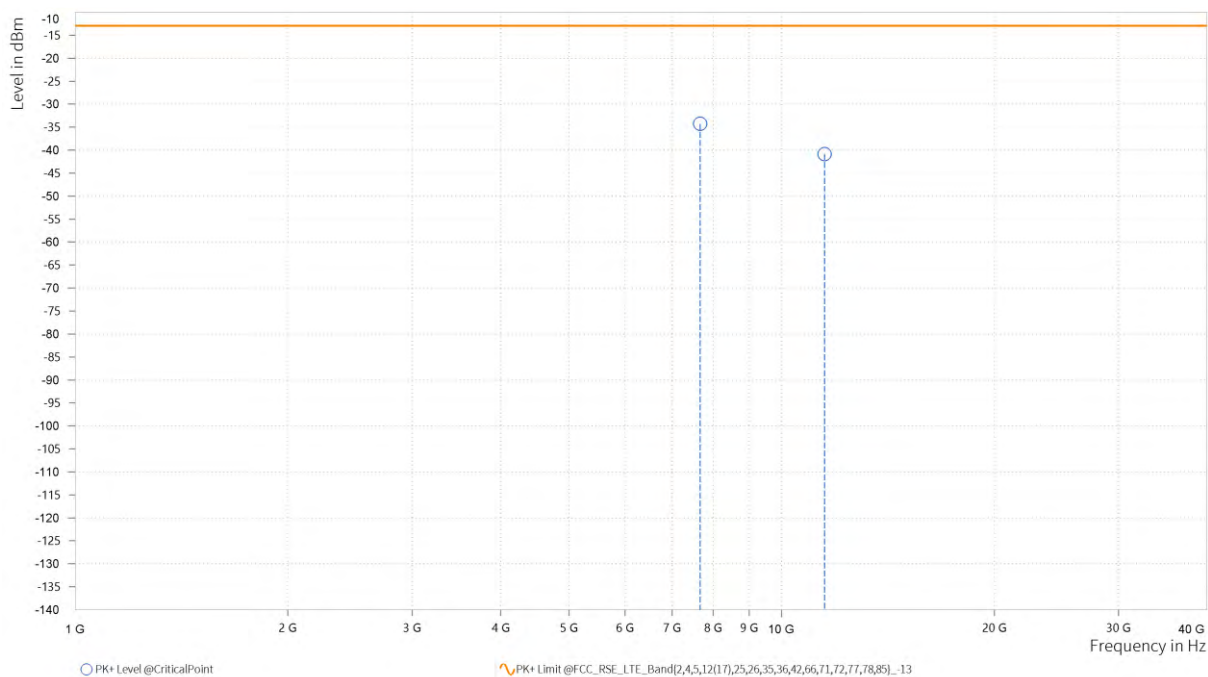
MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,667.000	-22.69	-13.00	9.69	29.09	H	359.1	1
6	11,499.750	-49.42	-13.00	36.42	20.21	H	2.2	2



MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

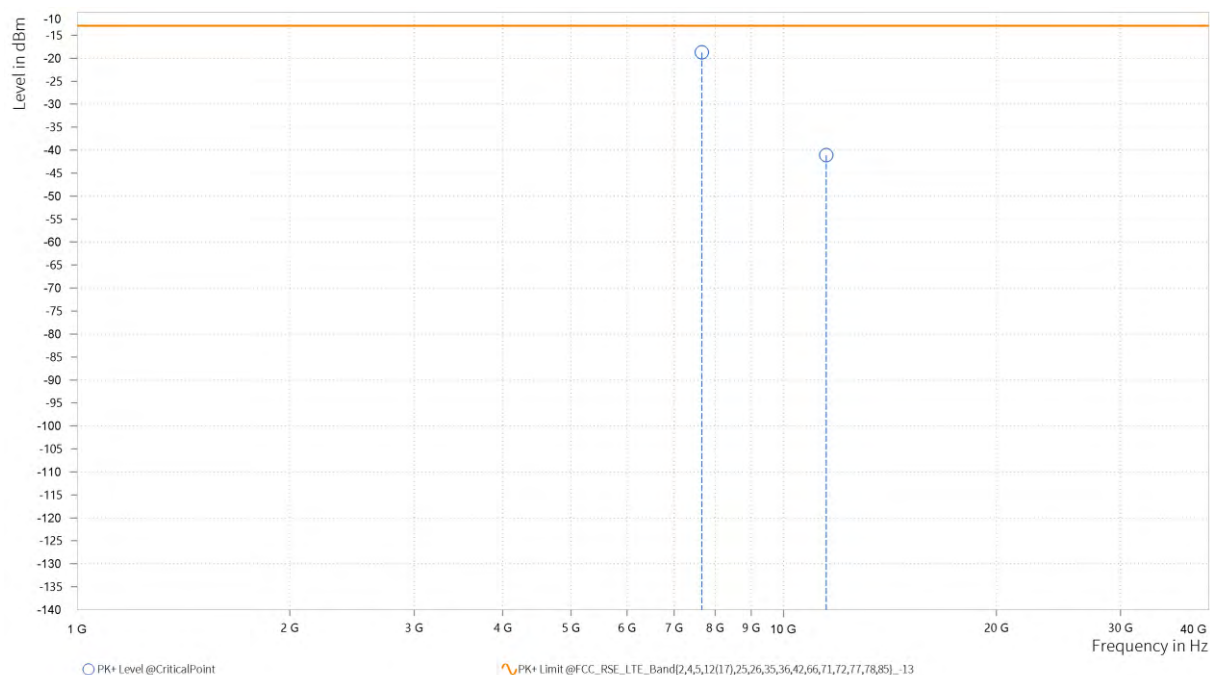
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,667.000	-34.27	-13.00	21.27	28.93	V	359	2
6	11,500.000	-40.85	-13.00	27.85	20.31	V	1	1



CHANNEL BANDWIDTH: 20MHz / QPSK

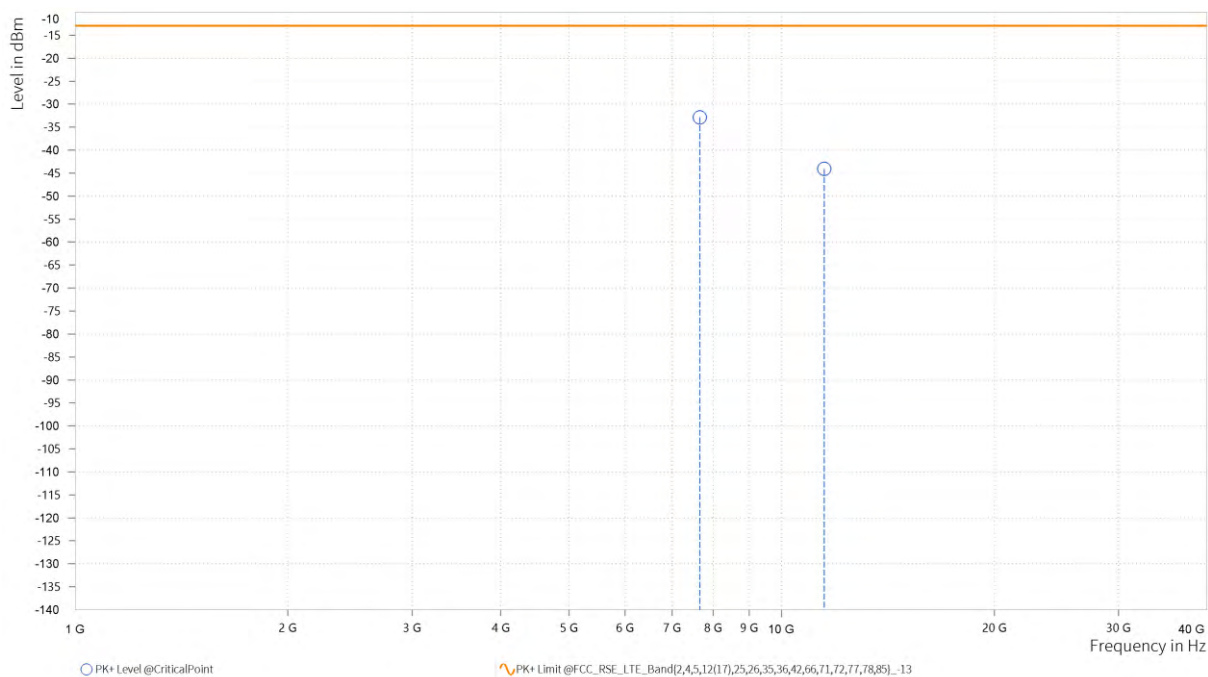
MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,662.500	-18.73	-13.00	5.73	29.09	H	49.9	2
6	11,493.500	-41.09	-13.00	28.09	20.18	H	359	2



MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

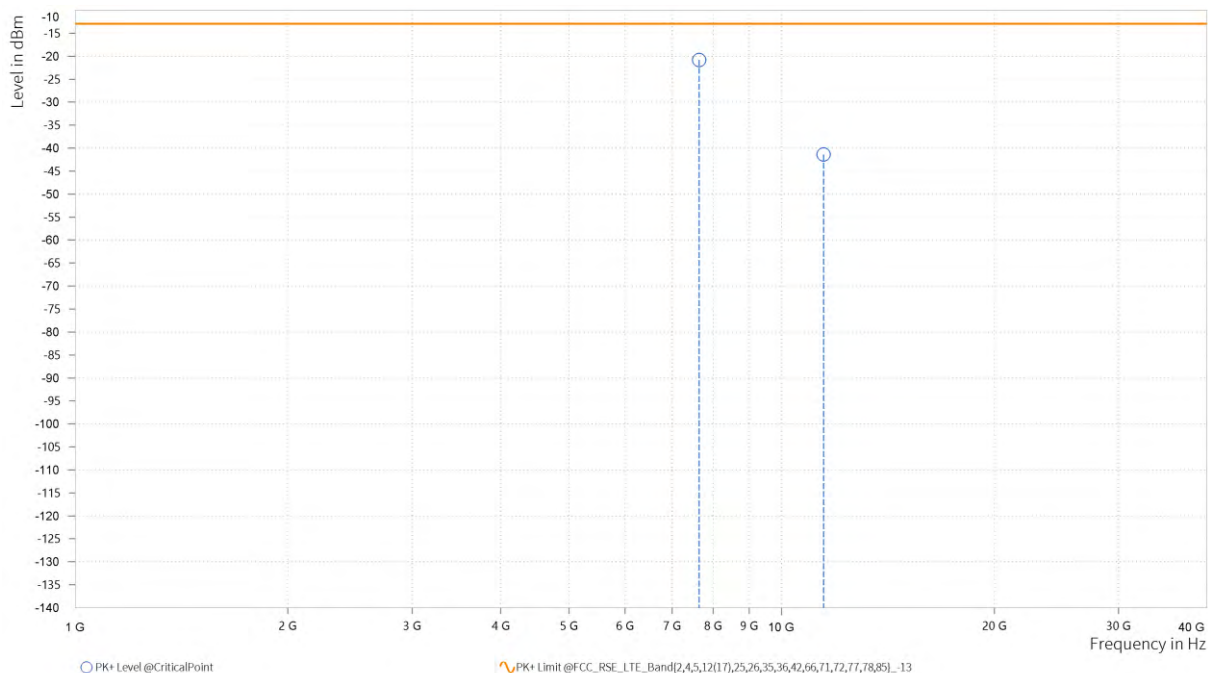
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,662.500	-32.86	-13.00	19.86	28.94	V	0.9	2
6	11,492.500	-44.07	-13.00	31.07	20.28	V	359.1	1



CHANNEL BANDWIDTH: 40MHz / QPSK

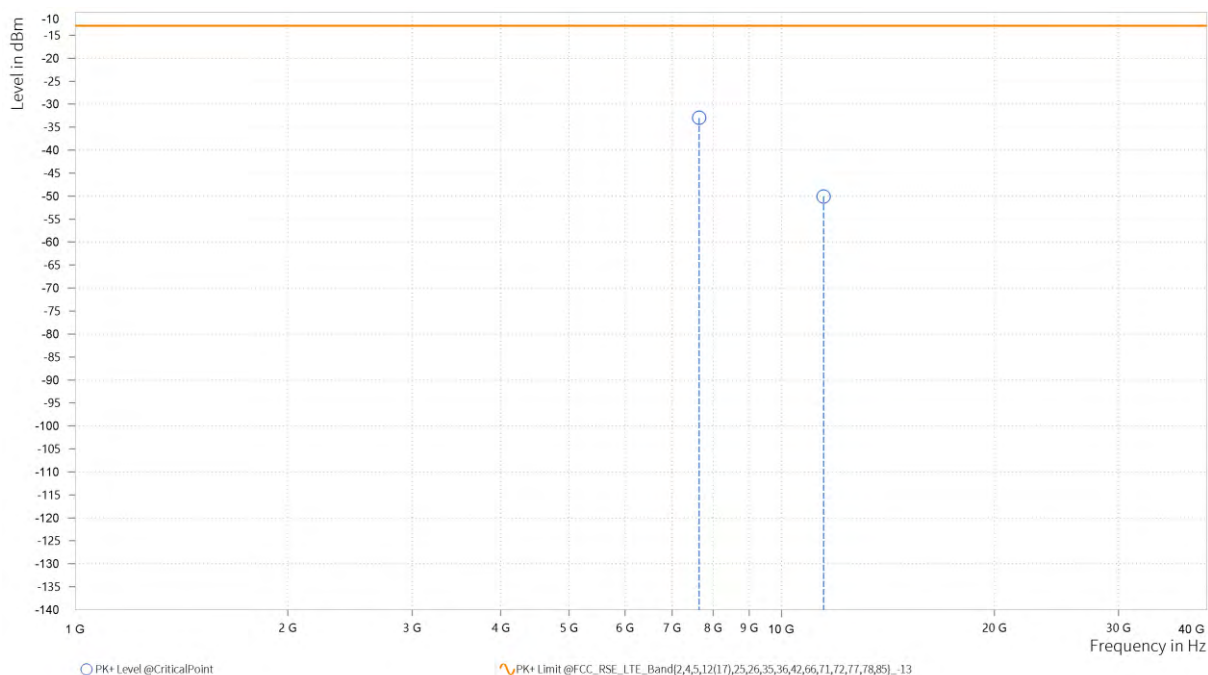
MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,643.000	-20.81	-13.00	7.81	29.36	H	49.9	2
6	11,463.000	-41.40	-13.00	28.40	20.07	H	359	2



MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,642.000	-32.96	-13.00	19.96	29.21	V	359	2
6	11,466.000	-50.09	-13.00	37.09	20.18	V	0.9	2





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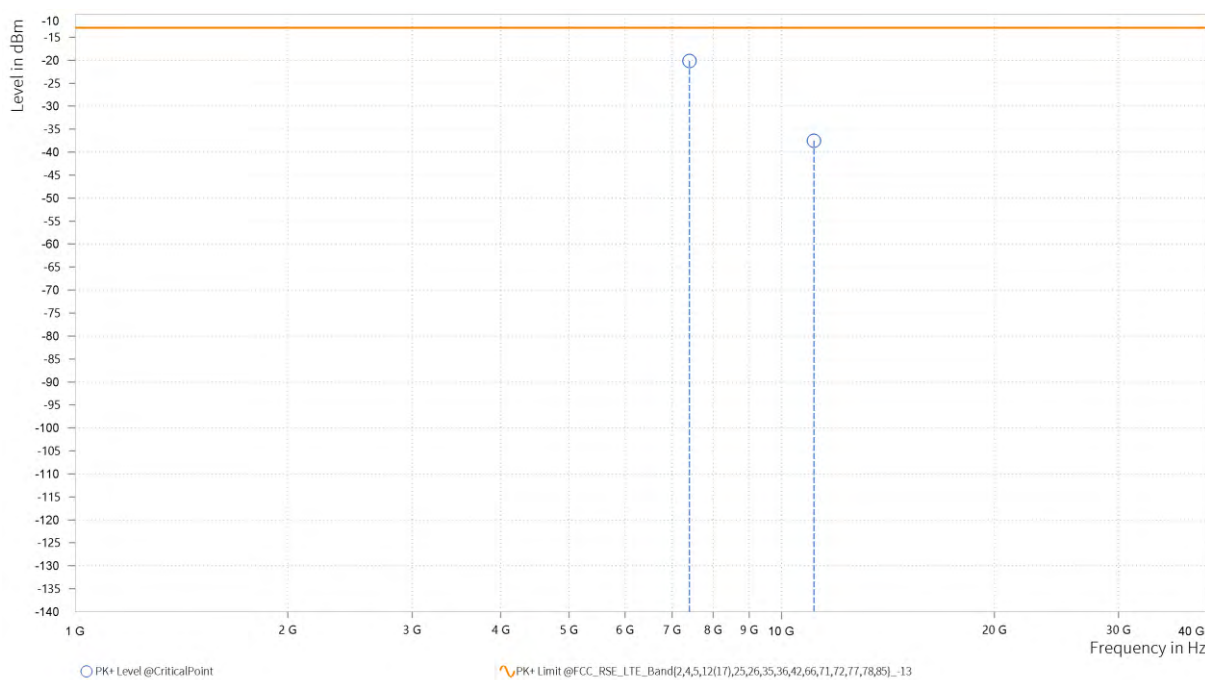
Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 50MHz / QPSK

CH 648336

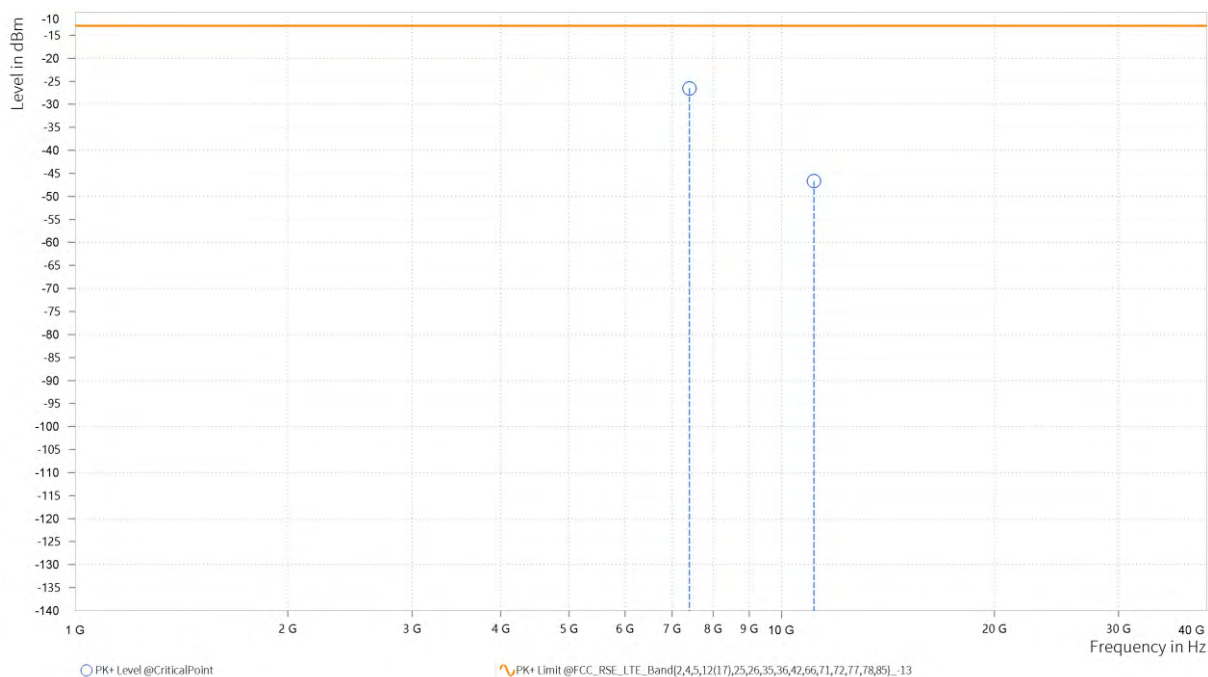
MODE	TX channel 648336	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,402.500	-20.16	-13.00	7.16	29.63	H	0.9	2
6	11,103.500	-37.49	-13.00	24.49	18.99	H	359	1



MODE	TX channel 648336	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,403.000	-26.52	-13.00	13.52	29.57	V	49.9	2
6	11,103.500	-46.67	-13.00	33.67	19.18	V	2.3	2





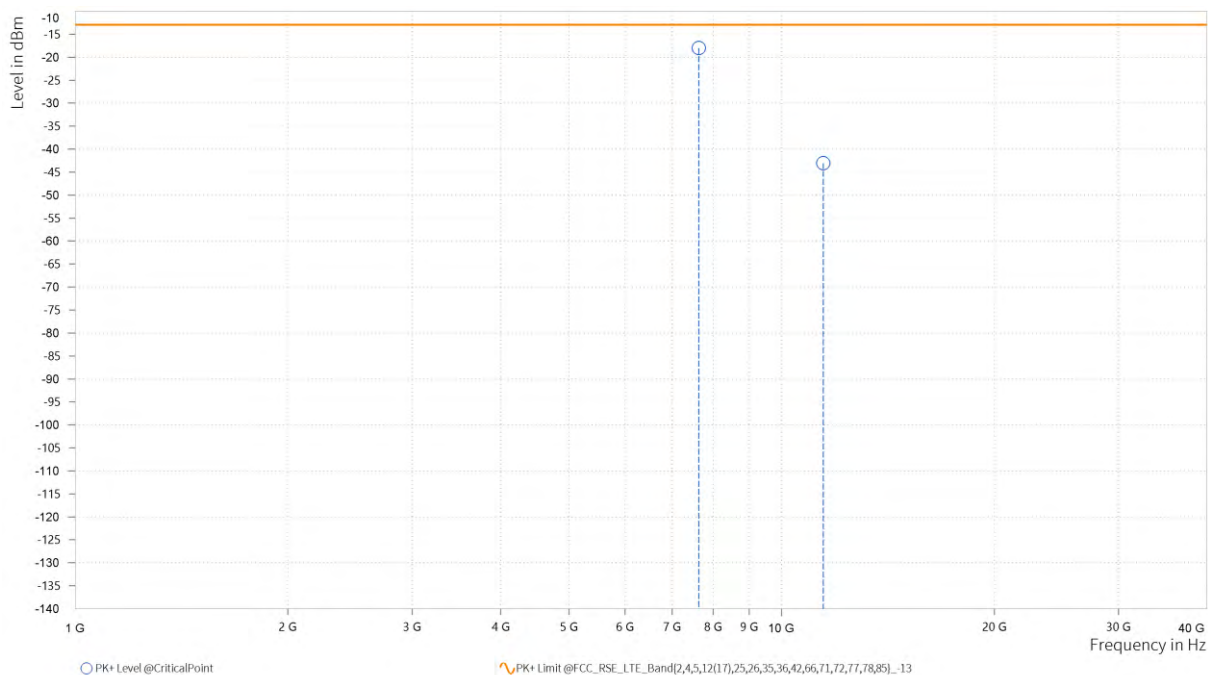
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Test Report No.: PSU-QSU2306120115RF10

CH 656000

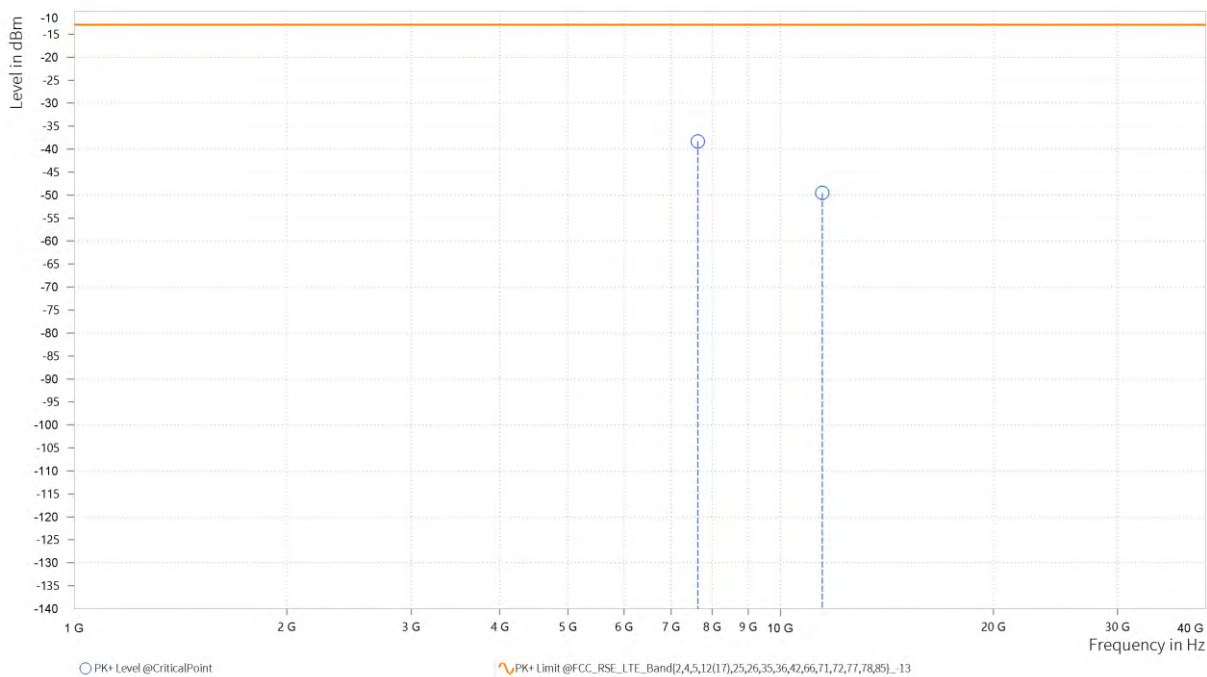
MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,632.500	-18.01	-13.00	5.01	29.41	H	49.9	2
6	11,449.000	-43.04	-13.00	30.04	20.01	H	357.7	1



MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,633.000	-38.30	-13.00	25.30	29.24	V	0.9	2
6	11,452.500	-49.54	-13.00	36.54	20.13	V	359.1	1





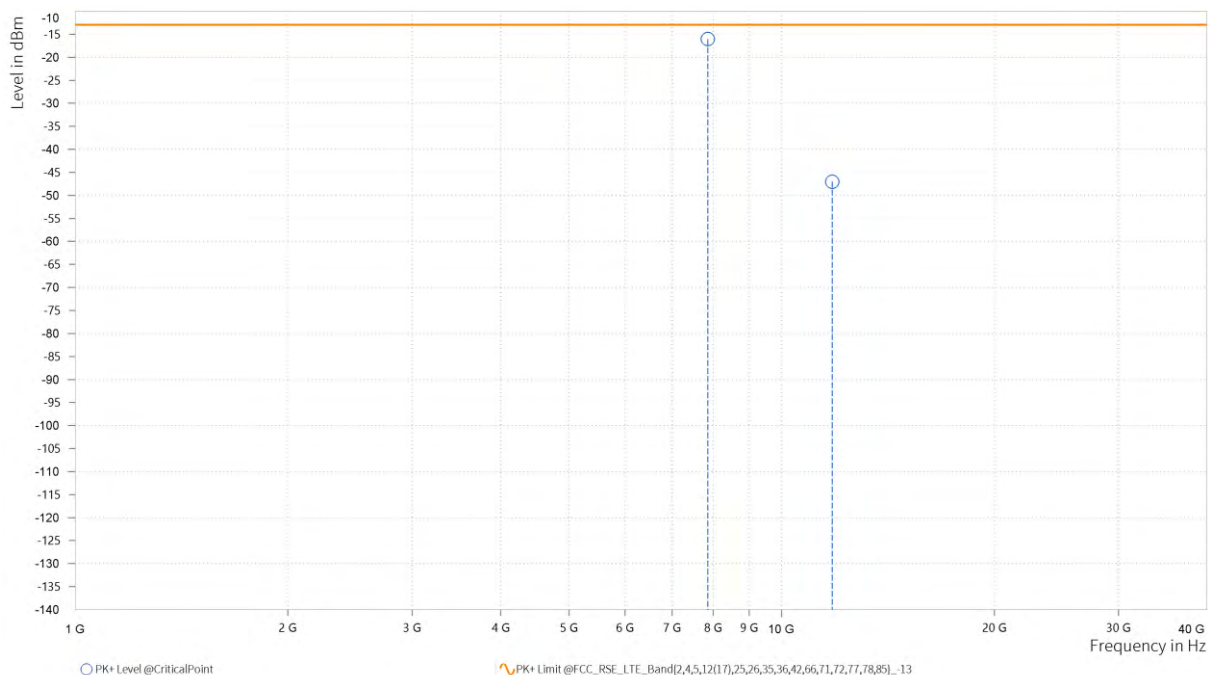
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VERITAS

Test Report No.: PSU-QSU2306120115RF10

CH 663666

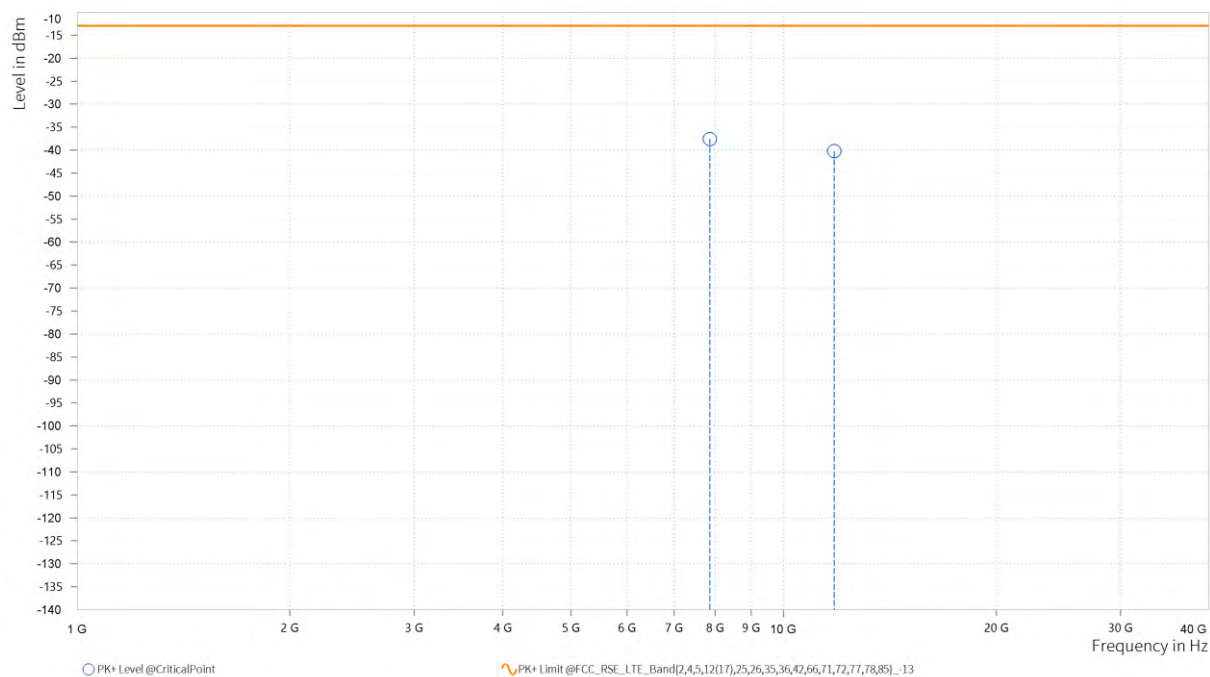
MODE	TX channel 663666	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,862.500	-16.05	-13.00	3.05	29.35	H	51	2
6	11,796.500	-47.01	-13.00	34.01	20.87	H	359	1



MODE	TX channel 663666	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

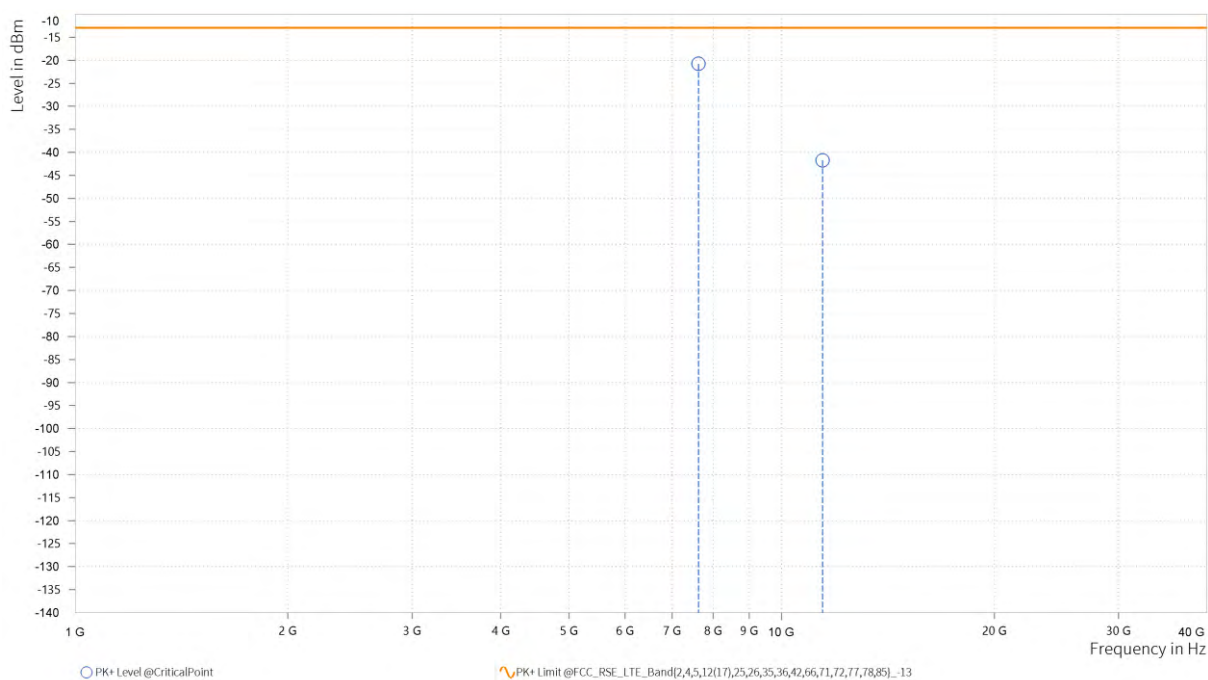
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,862.000	-37.59	-13.00	24.59	29.16	V	46.2	2
6	11,793.500	-40.23	-13.00	27.23	21.02	V	1	1



CHANNEL BANDWIDTH: 60MHz / QPSK

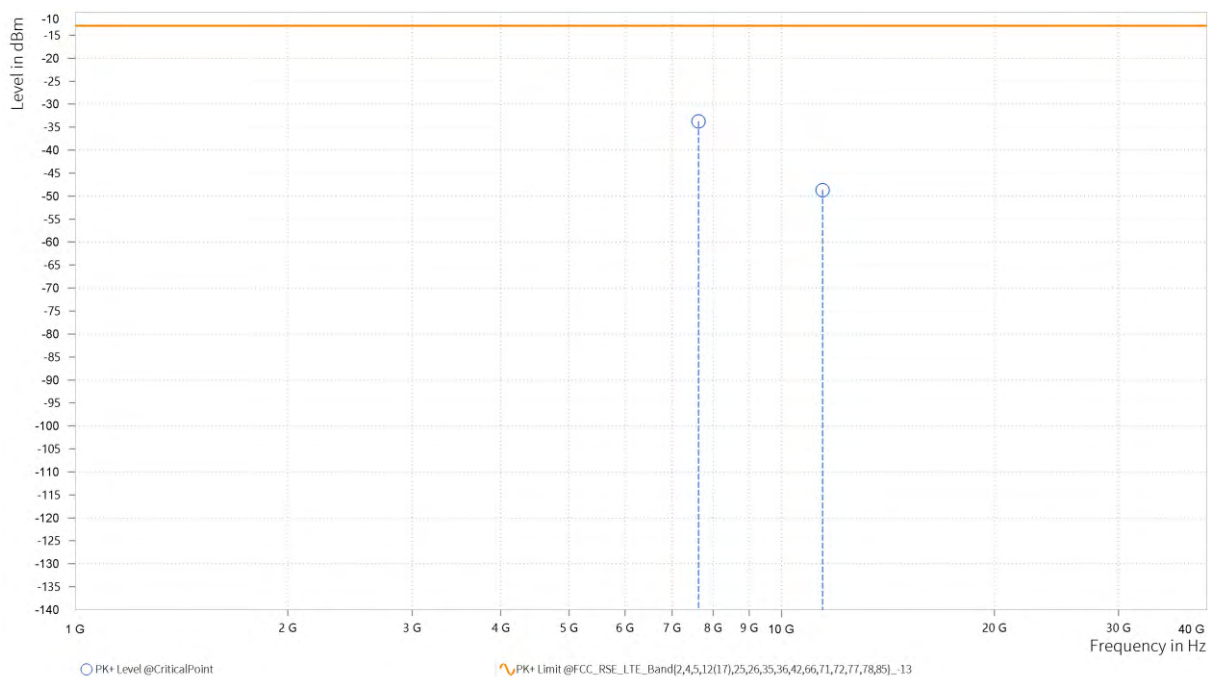
MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,622.000	-20.75	-13.00	7.75	29.40	H	51.1	2
6	11,432.500	-41.73	-13.00	28.73	19.91	H	357.8	1



MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

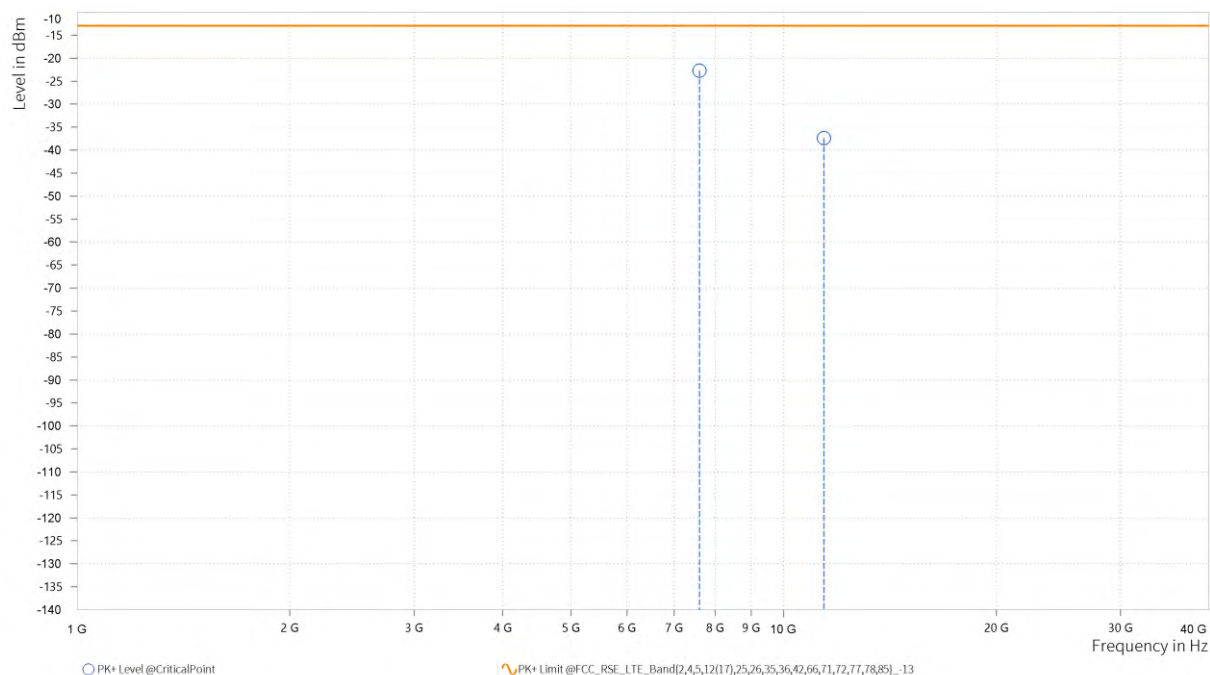
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,622.000	-33.73	-13.00	20.73	29.21	V	359	2
6	11,432.500	-48.69	-13.00	35.69	20.01	V	357.8	1



CHANNEL BANDWIDTH: 80MHz / QPSK

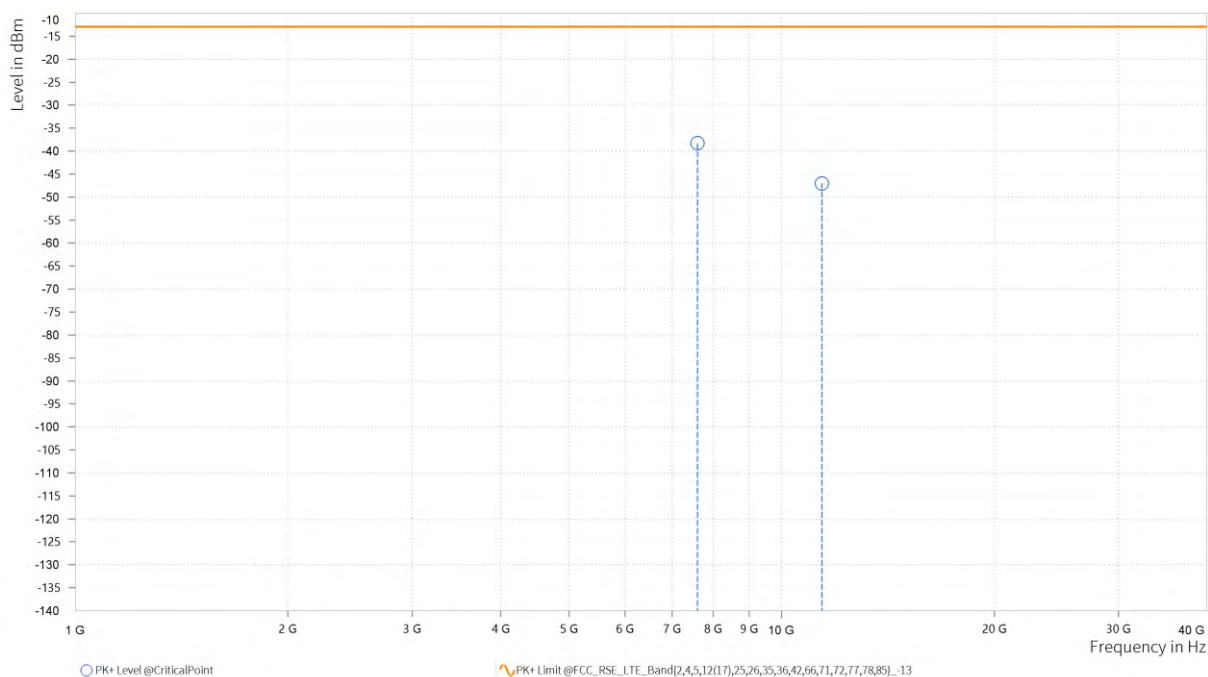
MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,603.000	-22.70	-13.00	9.70	29.39	H	47.4	2
6	11,403.500	-37.41	-13.00	24.41	19.74	H	2.2	2



MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,602.000	-38.25	-13.00	25.25	29.18	V	359.1	1
6	11,403.000	-47.00	-13.00	34.00	19.83	V	359.1	1





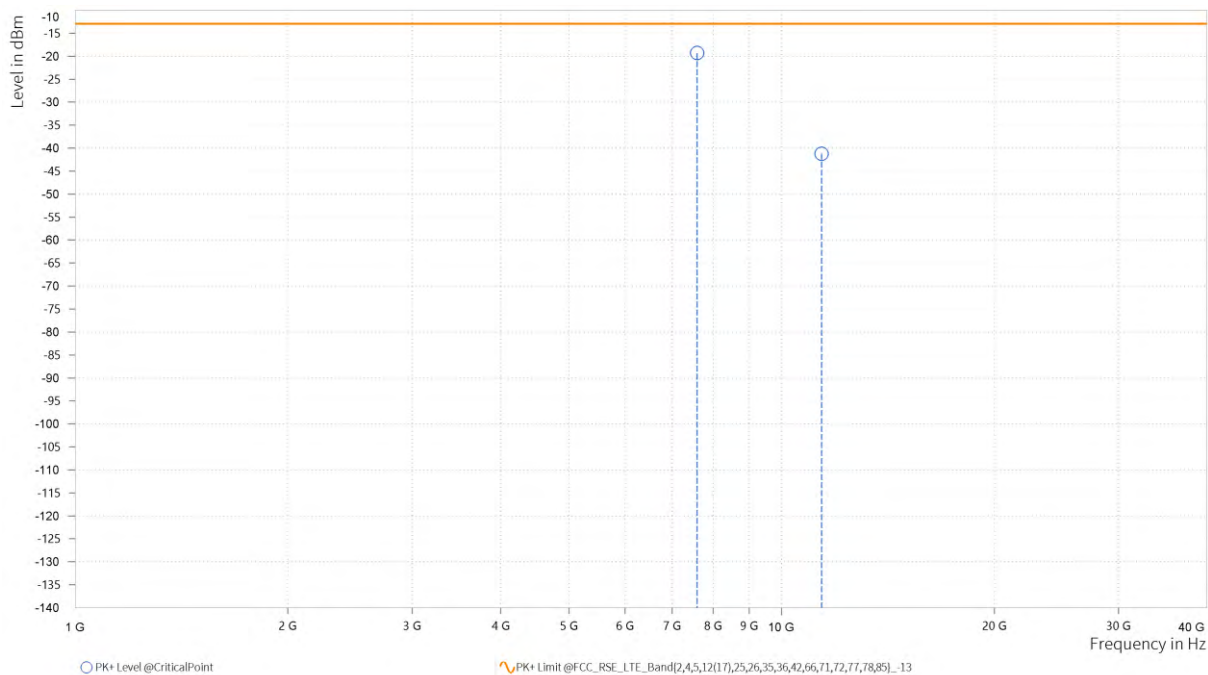
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Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 90MHz / QPSK

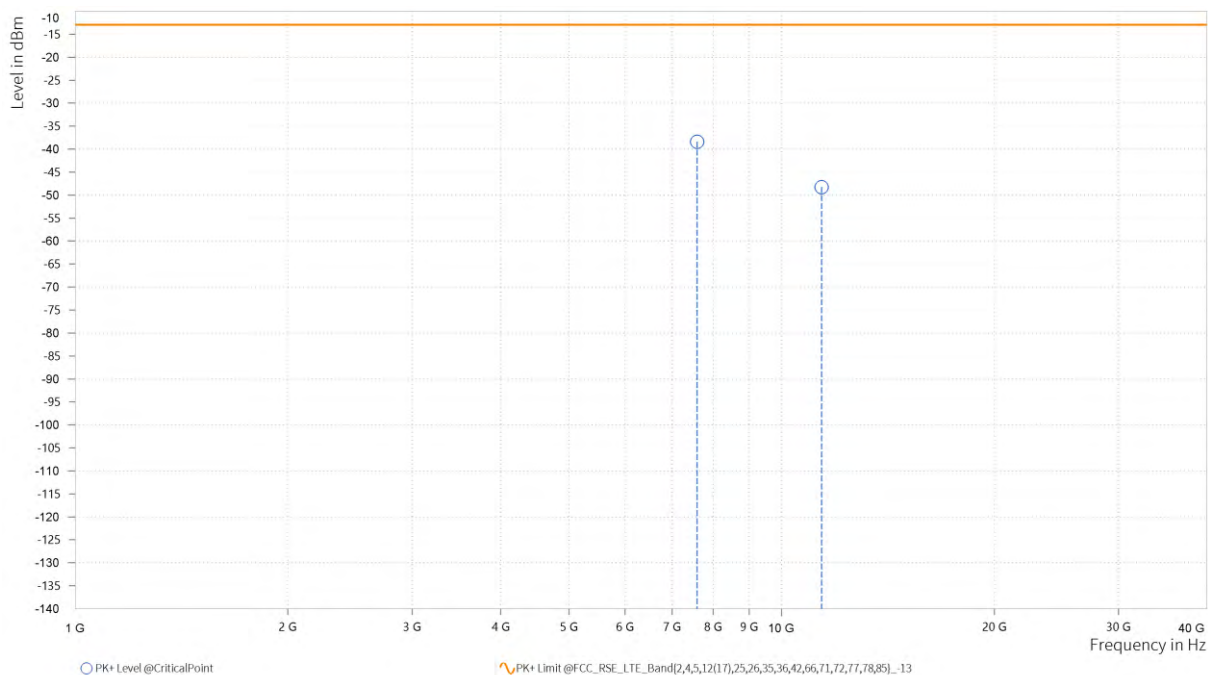
MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,592.500	-19.30	-13.00	6.30	29.35	H	359	2
6	11,388.000	-41.22	-13.00	28.22	19.68	H	359	1



MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

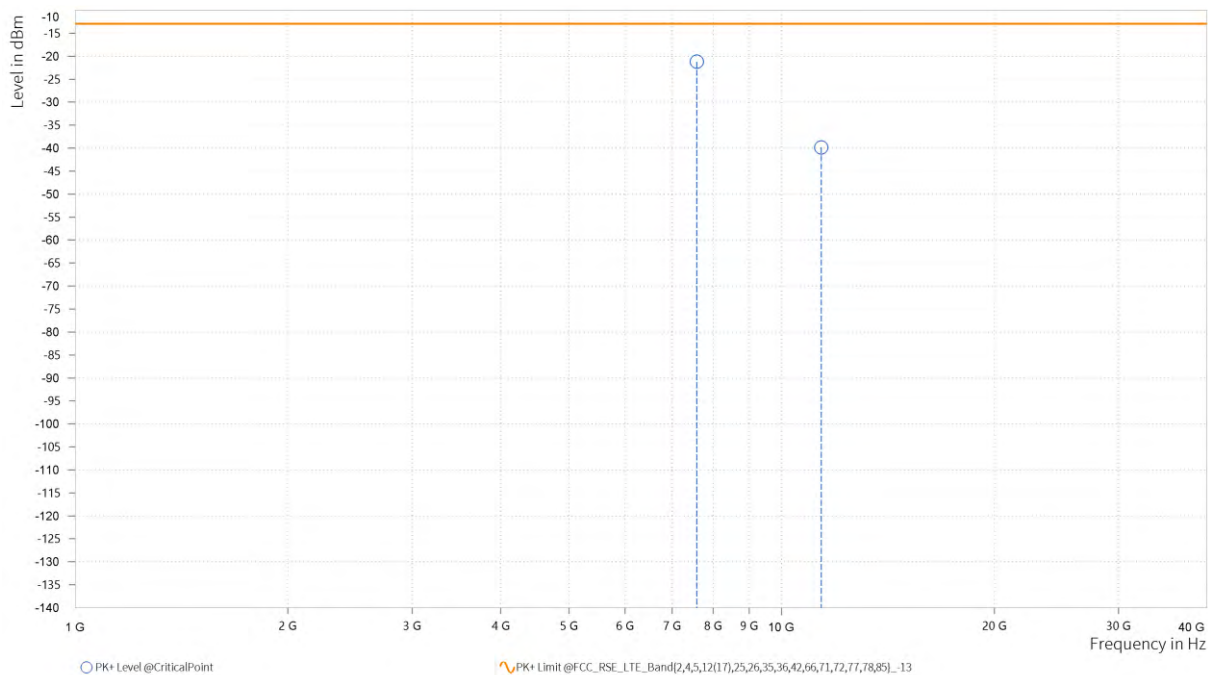
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,591.500	-38.38	-13.00	25.38	29.12	V	1	2
6	11,388.000	-48.26	-13.00	35.26	19.75	V	359.1	1



CHANNEL BANDWIDTH: 100MHz / QPSK

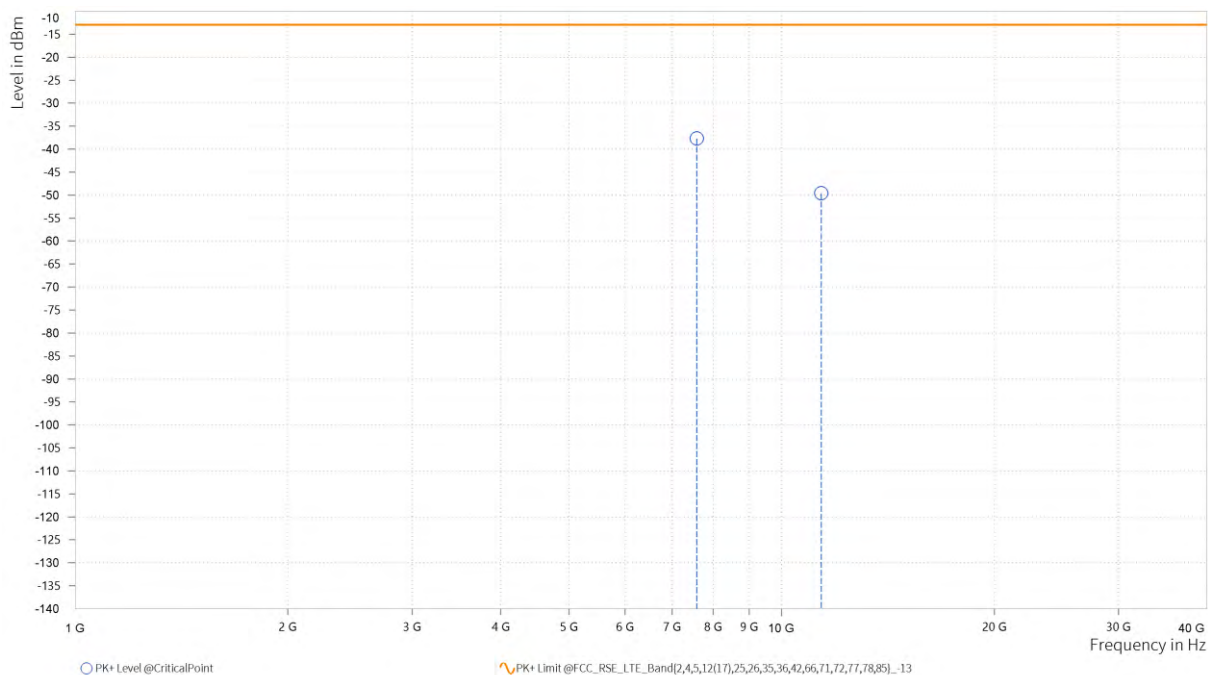
MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,582.000	-21.19	-13.00	8.19	29.30	H	46.3	2
6	11,373.000	-39.82	-13.00	26.82	19.65	H	2.2	2



MODE	TX channel 656000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,582.500	-37.70	-13.00	24.70	29.08	V	359	2
6	11,373.000	-49.59	-13.00	36.59	19.68	V	1	1





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Test Report No.: PSU-QSU2306120115RF10

N78(Part 27Q:

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,992.000	-21.94	-13.00	8.94	29.18	H	0.9	2
6	10,486.000	-48.33	-13.00	35.33	18.43	H	0.9	2



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,992.500	-31.00	-13.00	18.00	29.25	V	359.1	1
6	10,487.500	-44.03	-13.00	31.03	18.18	V	357.8	1



Test Report No.: PSU-QSU2306120115RF10

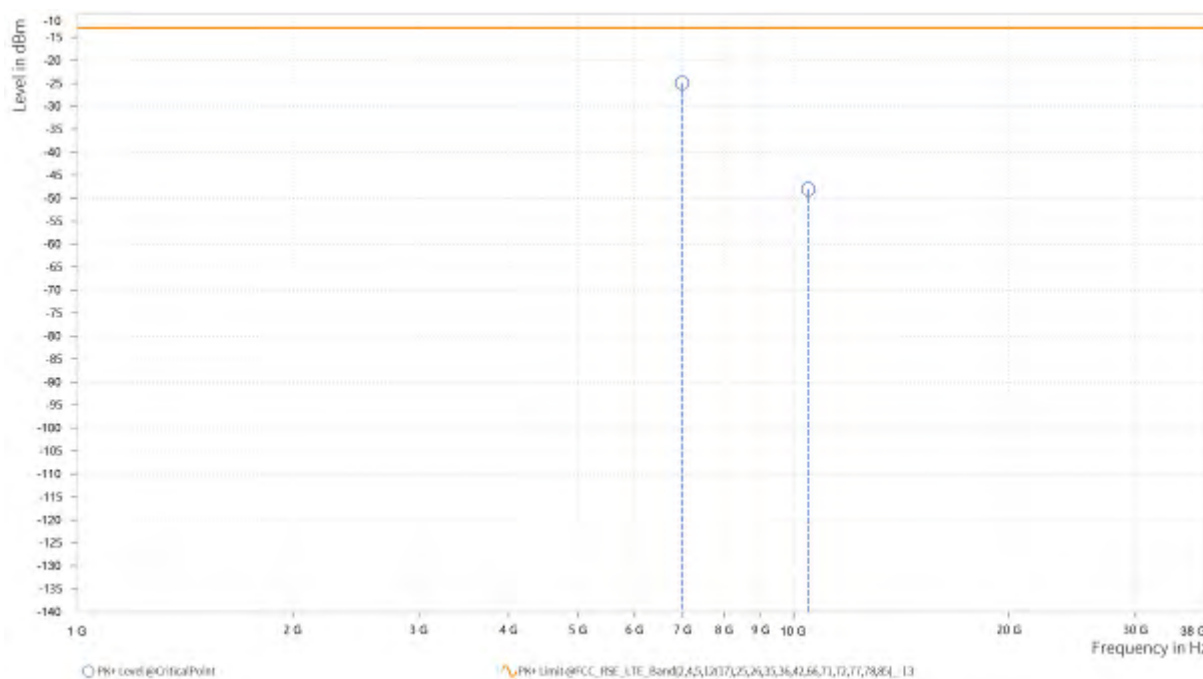
CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,986.500	-25.57	-13.00	12.57	29.02	H	359.1	1
6	10,479.500	-46.15	-13.00	33.15	18.40	H	359	2

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,986.500	-24.95	-13.00	11.95	29.07	V	1	1
6	10,479.500	-48.06	-13.00	35.06	18.16	V	1	1





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VERITAS

Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,982.000	-25.06	-13.00	12.06	28.89	H	1	1
6	10,473.500	-48.79	-13.00	35.79	18.37	H	1	1



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,982.000	-23.59	-13.00	10.59	28.94	V	351.2	1
6	10,473.000	-47.45	-13.00	34.45	18.14	V	359.1	1



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VERITAS

Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 40MHz / QPSK

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,962.000	-27.28	-13.00	14.28	28.66	H	359	1
6	10,443.000	-47.85	-13.00	34.85	18.24	H	357.8	1



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,962.000	-22.62	-13.00	9.62	28.70	V	1	1
6	10,443.000	-45.63	-13.00	32.63	18.06	V	2.2	2



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VERITAS

Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 50MHz / QPSK

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,952.500	-27.47	-13.00	14.47	28.55	H	359	1
6	10,430.500	-49.37	-13.00	36.37	18.19	H	1	1



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,952.500	-25.71	-13.00	12.71	28.59	V	1	1
6	10,429.000	-45.76	-13.00	32.76	18.02	V	1	2



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VERITAS

Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 60MHz / QPSK

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,942.000	-24.79	-13.00	11.79	28.40	H	48.6	2
6	10,413.000	-46.69	-13.00	33.69	18.11	H	359	2



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,942.000	-27.78	-13.00	14.78	28.45	V	359	1
6	10,412.500	-43.94	-13.00	30.94	17.94	V	2.2	2



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VERITAS

Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 80MHz / QPSK

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,922.500	-27.07	-13.00	14.07	28.32	H	0.9	2
6	10,394.500	-49.50	-13.00	36.50	18.02	H	359	2



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,922.000	-28.22	-13.00	15.22	28.32	V	310.1	1
6	10,394.500	-49.26	-13.00	36.26	17.81	V	0.8	2



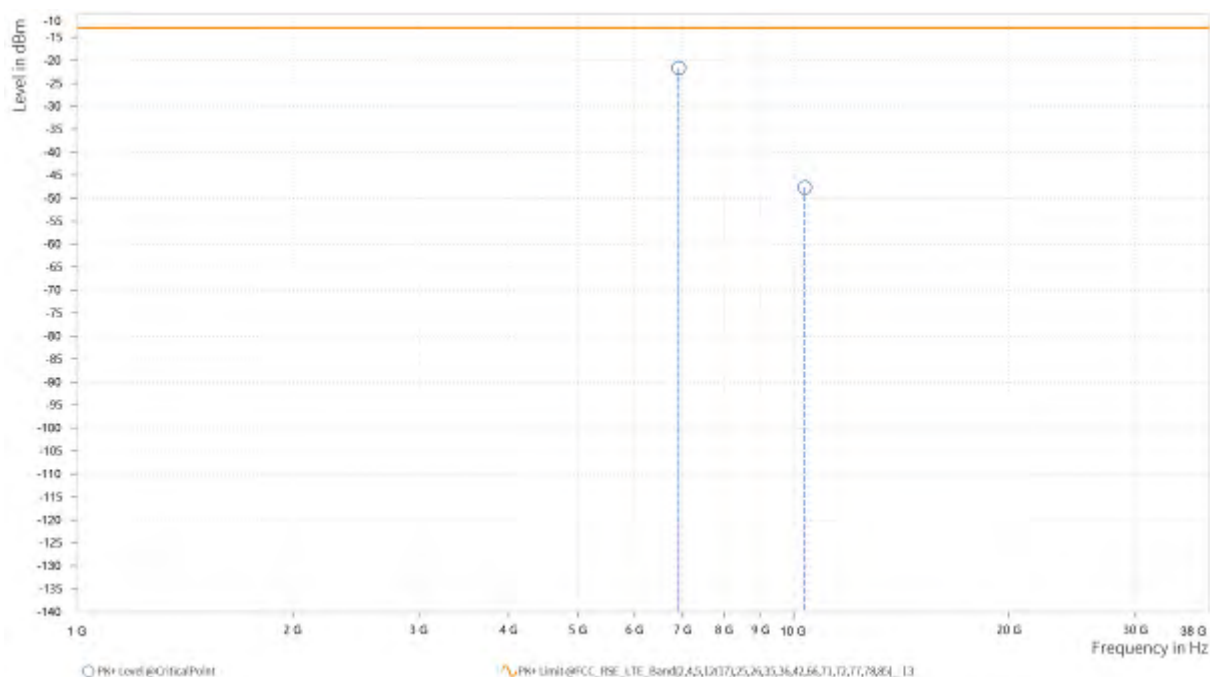
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Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 90MHz / QPSK

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,912.500	-21.70	-13.00	8.70	28.32	H	48.6	2
6	10,368.000	-47.67	-13.00	34.67	17.89	H	0.9	2





Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,912.500	-28.16	-13.00	15.16	28.30	V	311.3	1
6	10,368.000	-44.74	-13.00	31.74	17.64	V	359	2



Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 100MHz / QPSK

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,902.000	-20.91	-13.00	7.91	28.38	H	47.4	2
6	10,360.000	-49.44	-13.00	36.44	17.85	H	359	1



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 633334	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	6,901.500	-31.88	-13.00	18.88	28.34	V	357.9	1
6	10,360.500	-49.60	-13.00	36.60	17.59	V	359	1



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Test Report No.: PSU-QSU2306120115RF10

N78(Part 270):

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,491.500	-41.07	-13.00	28.07	29.03	H	52.3	2
6	11,238.000	-46.60	-13.00	33.60	19.35	H	359.1	1



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,492.000	-25.40	-13.00	12.40	29.02	V	0.9	2
6	11,236.500	-50.01	-13.00	37.01	19.27	V	0.9	2



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VERITAS

Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,487.000	-37.26	-13.00	24.26	29.01	H	52.3	2
6	11,229.000	-49.37	-13.00	36.37	19.33	H	359	2



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,487.000	-25.91	-13.00	12.91	29.00	V	0.9	2
6	11,229.000	-49.44	-13.00	36.44	19.27	V	358.8	1



Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,482.000	-41.58	-13.00	28.58	29.03	H	51.1	2
6	11,223.000	-45.10	-13.00	32.10	19.32	H	0.9	2



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,482.000	-26.16	-13.00	13.16	29.02	V	1	2
6	11,223.000	-44.08	-13.00	31.08	19.27	V	1	2



BUREAU
VERITAS

Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 40MHz / QPSK

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,462.000	-36.60	-13.00	23.60	29.02	H	52.3	2
6	11,196.000	-49.29	-13.00	36.29	19.28	H	359.1	1



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,462.500	-28.11	-13.00	15.11	29.02	V	52.3	2
6	11,196.000	-49.63	-13.00	36.63	19.30	V	2.5	2



BUREAU
VERITAS

Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 50MHz / QPSK

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,452.500	-34.52	-13.00	21.52	29.12	H	51.1	2
6	11,178.500	-46.38	-13.00	33.38	19.29	H	2.5	2



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,452.500	-28.15	-13.00	15.15	29.12	V	0.9	2
6	11,178.000	-47.90	-13.00	34.90	19.35	V	359.1	1



**BUREAU
VERITAS**

Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 60MHz / QPSK

CH 648668

MODE	TX channel 648668	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,402.000	-33.14	-13.00	20.14	29.63	H	51	2
6	11,109.000	-50.40	-13.00	37.40	19.01	H	357.6	1



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 648668	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,402.000	-28.17	-13.00	15.17	29.56	V	359	2
6	11,109.000	-48.80	-13.00	35.80	19.19	V	359.1	1



BUREAU
VERITAS

Test Report No.: PSU-QSU2306120115RF10

CH 650000

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,441.500	-35.60	-13.00	22.60	29.09	H	52.2	2
6	11,169.000	-49.80	-13.00	36.80	19.27	H	359.1	1



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,442.000	-24.43	-13.00	11.43	29.11	V	49.8	2
6	11,169.000	-49.18	-13.00	36.18	19.35	V	1	1



Test Report No.: PSU-QSU2306120115RF10

CH651332

MODE	TX channel 651332	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,485.000	-41.18	-13.00	28.18	29.02	H	359	2
6	11,228.000	-50.57	-13.00	37.57	19.33	H	1.4	2



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 651332	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,482.000	-26.58	-13.00	13.58	29.02	V	0.9	2
6	11,228.000	-50.79	-13.00	37.79	19.27	V	1	1



Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 80MHz / QPSK

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,428.000	-40.90	-13.00	27.90	29.15	H	54	2
6	11,142.000	-48.75	-13.00	35.75	19.16	H	358.9	1



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,422.500	-26.46	-13.00	13.46	29.17	V	0.9	2
6	11,142.000	-49.66	-13.00	36.66	19.28	V	359	2



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VERITAS

Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 90MHz / QPSK

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,411.500	-38.40	-13.00	25.40	29.63	H	52.3	2
6	11,128.000	-44.67	-13.00	31.67	19.05	H	359	2



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,412.500	-30.07	-13.00	17.07	29.54	V	359	2
6	11,128.000	-48.26	-13.00	35.26	19.24	V	359.1	1



BUREAU
VERITAS

Test Report No.: PSU-QSU2306120115RF10

CHANNEL BANDWIDTH: 100MHz / QPSK

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,402.000	-41.62	-13.00	28.62	29.63	H	51	2
6	11,115.000	-49.09	-13.00	36.09	19.04	H	2.4	2



Test Report No.: PSU-QSU2306120115RF10

MODE	TX channel 650000	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 12V
TESTED BY	Chao Wu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

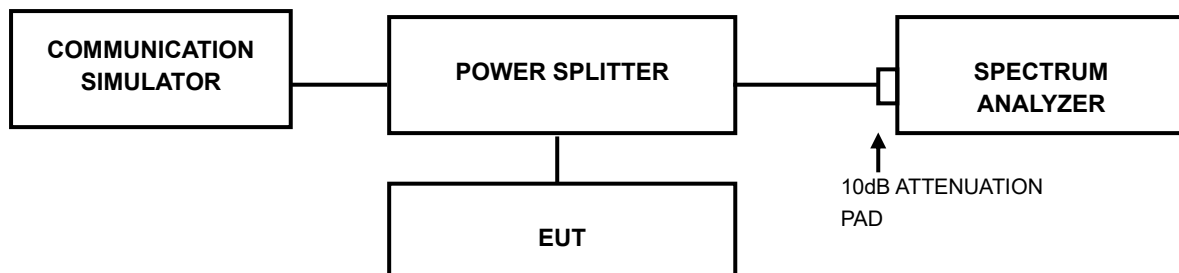
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
5	7,402.500	-26.32	-13.00	13.32	29.57	V	1	2
6	11,115.000	-50.26	-13.00	37.26	19.21	V	1	1

3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



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3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



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4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



Test Report No.: PSU-QSU2306120115RF10

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.



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6 APPENDIX

N5

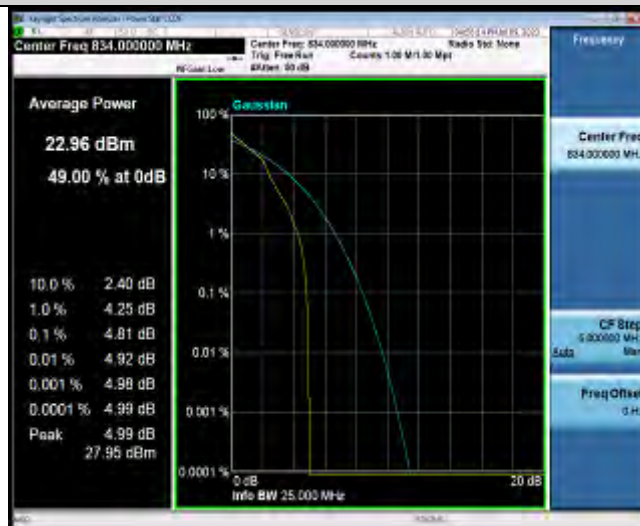
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

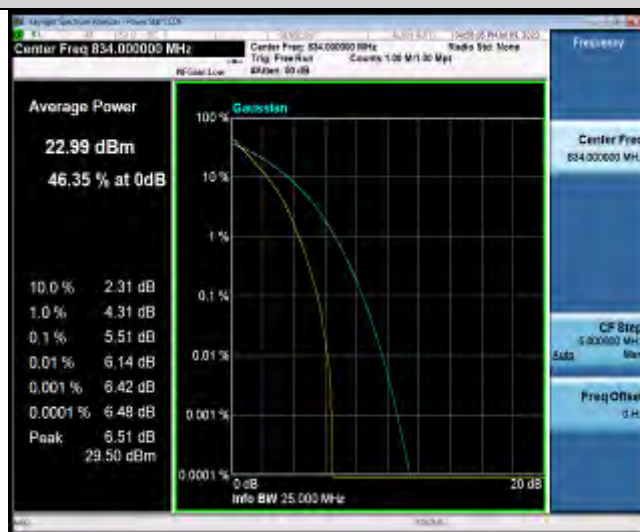
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
N5	20MHz	QPSK	166800	1RB#0	4.81	13	PASS
N5	20MHz	QPSK	166800	100RB#0	5.51	13	PASS
N5	20MHz	QPSK	167300	1RB#0	4.69	13	PASS
N5	20MHz	QPSK	167300	100RB#0	5.48	13	PASS
N5	20MHz	QPSK	167800	1RB#0	4.87	13	PASS
N5	20MHz	QPSK	167800	100RB#0	5.46	13	PASS

Test Graphs

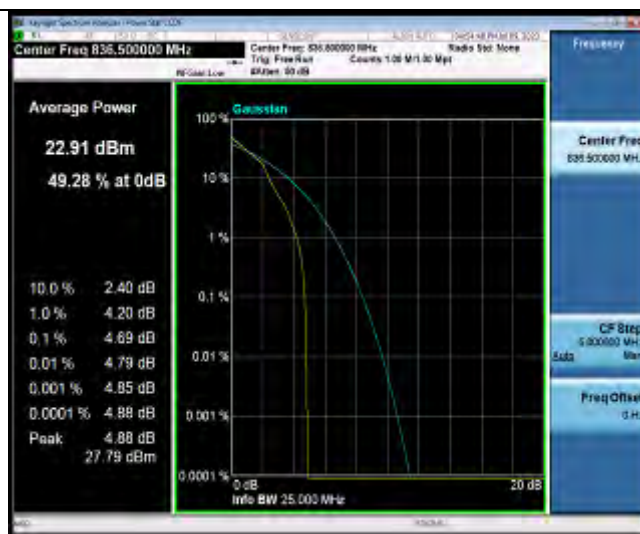
N5-20MHz-QPSK-166800-1RB#0



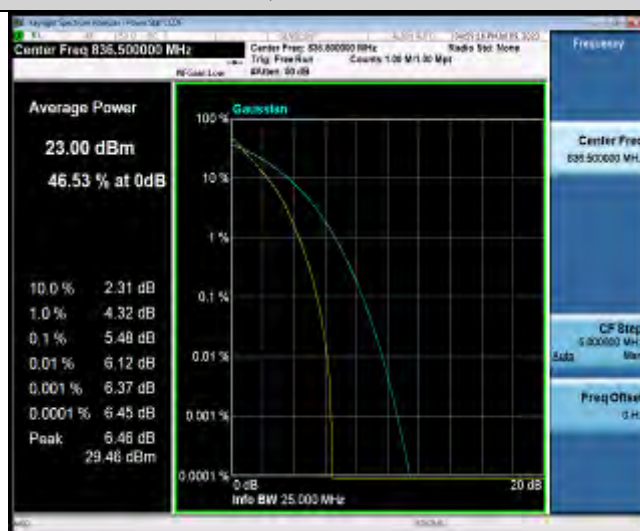
N5-20MHz-QPSK-166800-100RB#0



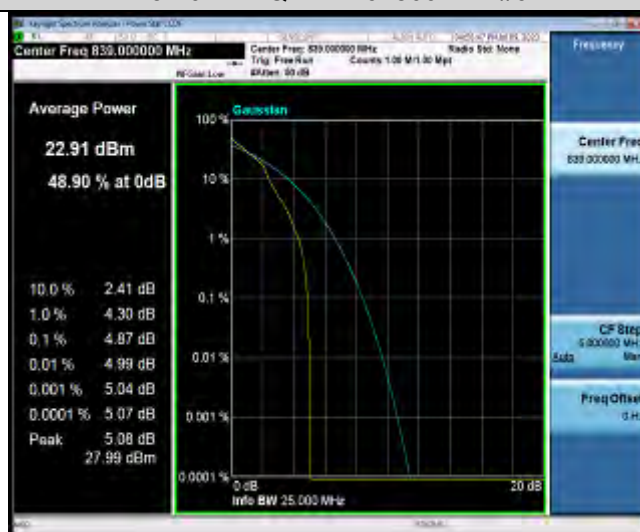
N5-20MHz-QPSK-167300-1RB#0



N5-20MHz-QPSK-167300-100RB#0



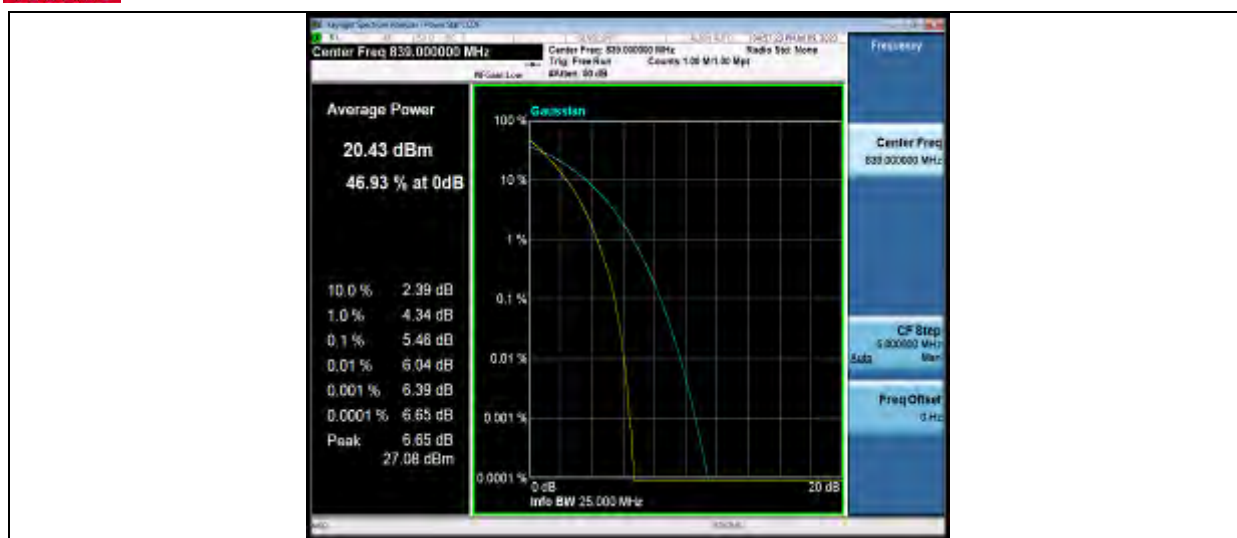
N5-20MHz-QPSK-167800-1RB#0



N5-20MHz-QPSK-167800-100RB#0



Test Report No.: PSU-QSU2306120115RF10



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
N5	5MHz	QPSK	167300	25RB#0	4.4898	4.932	PASS
N5	5MHz	16QAM	167300	25RB#0	4.4904	4.901	PASS
N5	5MHz	64QAM	167300	25RB#0	4.4882	4.916	PASS
N5	5MHz	256QAM	167300	25RB#0	4.4691	4.909	PASS
N5	5MHz	BPSK	167300	25RB#0	4.4706	4.942	PASS
N5	10MHz	QPSK	167300	50RB#0	8.9983	9.775	PASS
N5	10MHz	16QAM	167300	50RB#0	9.0036	9.802	PASS
N5	10MHz	64QAM	167300	50RB#0	8.9987	9.908	PASS
N5	10MHz	BPSK	167300	50RB#0	8.9790	9.668	PASS
N5	10MHz	256QAM	167300	50RB#0	9.0339	9.872	PASS
N5	15MHz	QPSK	167300	75RB#0	13.442	14.50	PASS
N5	15MHz	16QAM	167300	75RB#0	13.437	14.35	PASS
N5	15MHz	64QAM	167300	75RB#0	13.467	14.40	PASS
N5	15MHz	256QAM	167300	75RB#0	13.500	14.37	PASS
N5	15MHz	BPSK	167300	75RB#0	13.434	14.34	PASS
N5	20MHz	QPSK	167300	100RB#0	17.940	19.32	PASS
N5	20MHz	16QAM	167300	100RB#0	17.926	19.28	PASS
N5	20MHz	64QAM	167300	100RB#0	17.904	19.35	PASS
N5	20MHz	BPSK	167300	100RB#0	17.925	19.24	PASS
N5	20MHz	256QAM	167300	100RB#0	17.958	19.28	PASS

Test Graphs

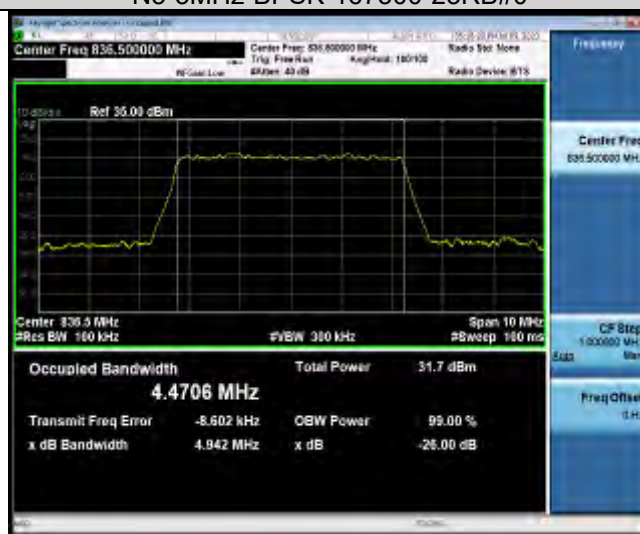




N5-5MHz-256QAM-167300-25RB#0



N5-5MHz-BPSK-167300-25RB#0



N5-10MHz-QPSK-167300-50RB#0



N5-10MHz-16QAM-167300-50RB#0



N5-10MHz-64QAM-167300-50RB#0



N5-10MHz-BPSK-167300-50RB#0



BUREAU
VERITAS

Test Report No.: PSU-QSU2306120115RF10



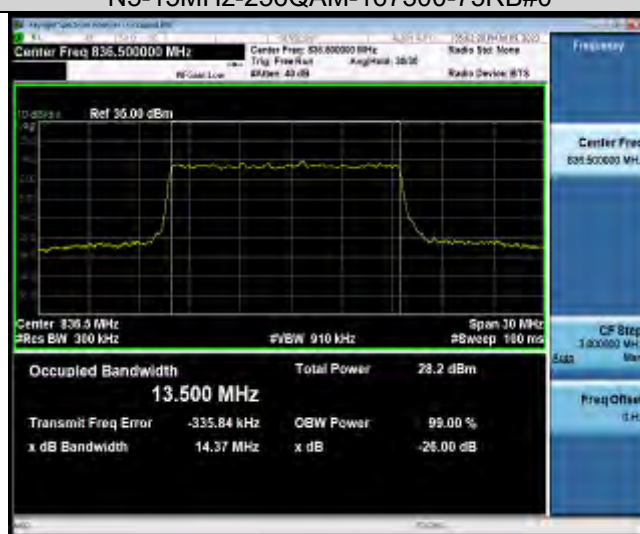
N5-10MHz-256QAM-167300-50RB#0



N5-15MHz-QPSK-167300-75RB#0



N5-15MHz-16QAM-167300-75RB#0





N5-20MHz-QPSK-167300-100RB#0



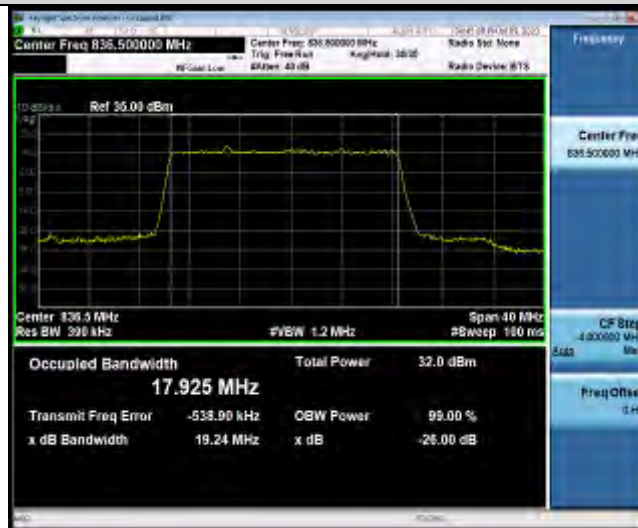
N5-20MHz-16QAM-167300-100RB#0



N5-20MHz-64QAM-167300-100RB#0



N5-20MHz-BPSK-167300-100RB#0



N5-20MHz-256QAM-167300-100RB#0

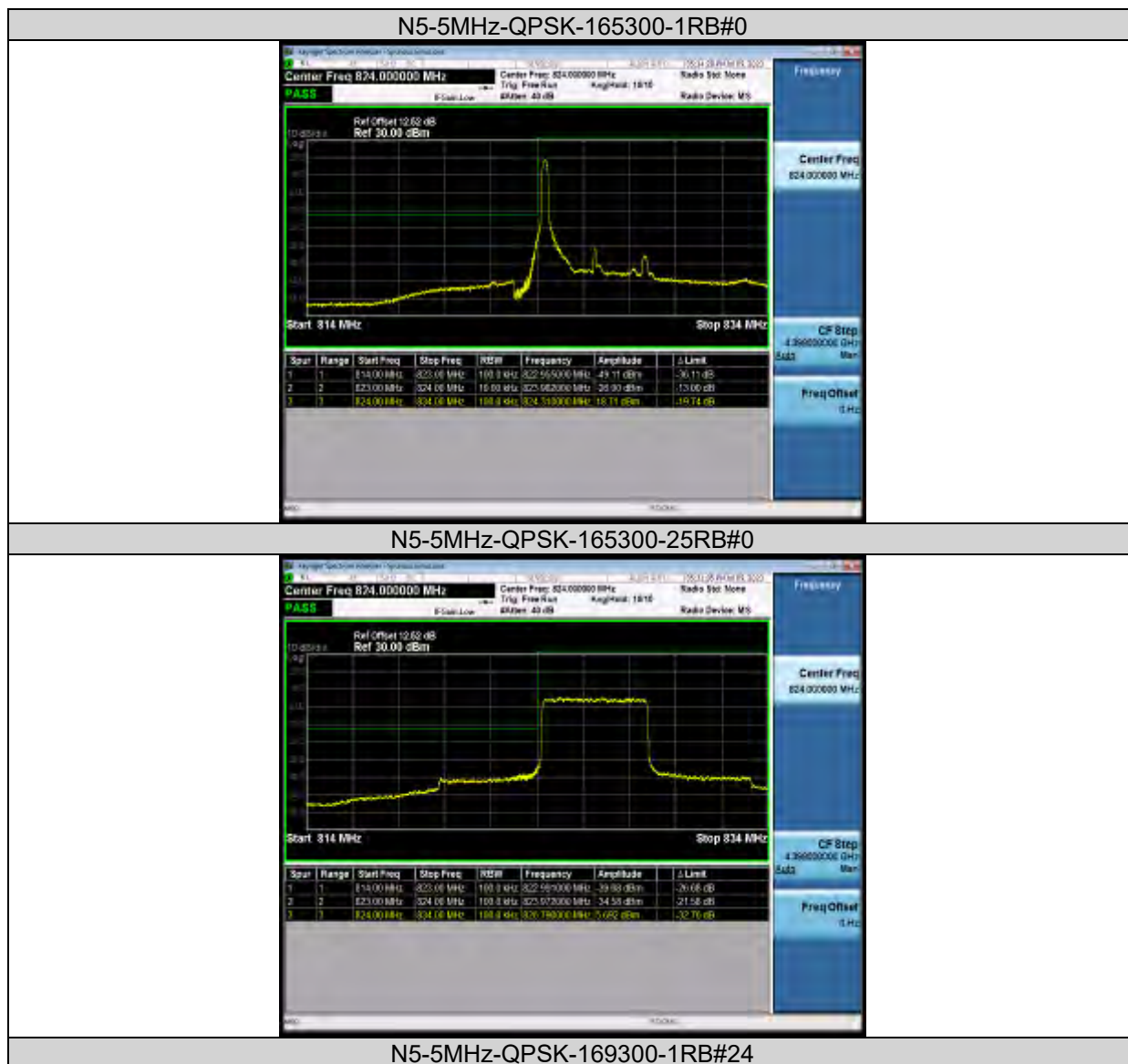


BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
N5	5MHz	QPSK	165300	1RB#0	-49.11,-26.00	PASS
N5	5MHz	QPSK	165300	25RB#0	-39.68,-34.58	PASS
N5	5MHz	QPSK	169300	1RB#24	-25.05,-50.29	PASS
N5	5MHz	QPSK	169300	25RB#0	-33.86,-38.37	PASS
N5	10MHz	QPSK	165800	1RB#0	-50.84,-26.45	PASS
N5	10MHz	QPSK	165800	50RB#0	-40.54,-33.45	PASS
N5	10MHz	QPSK	168800	1RB#49	-27.82,-50.67	PASS
N5	10MHz	QPSK	168800	50RB#0	-35.69,-41.93	PASS
N5	20MHz	QPSK	166800	1RB#0	-52.57,-29.33	PASS
N5	20MHz	QPSK	166800	100RB#0	-42.54,-36.80	PASS
N5	20MHz	QPSK	167800	1RB#99	-28.89,-51.80	PASS
N5	20MHz	QPSK	167800	100RB#0	-38.58,-44.02	PASS

Test Graphs





N5-5MHz-QPSK-169300-25RB#0



N5-10MHz-QPSK-165800-1RB#0



N5-10MHz-QPSK-165800-50RB#0



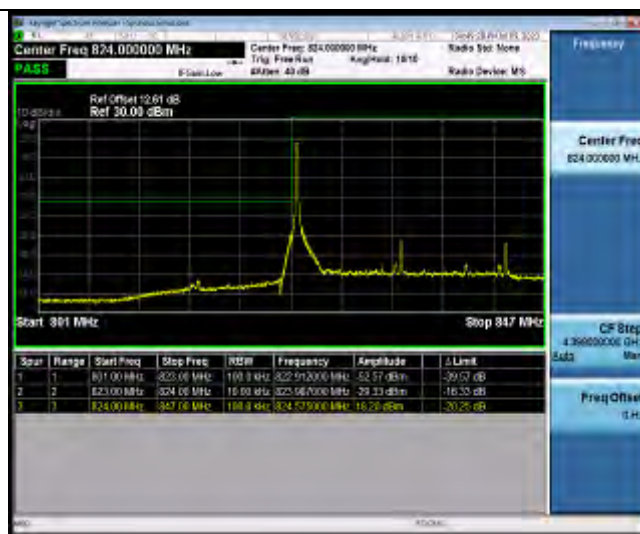
N5-10MHz-QPSK-168800-1RB#49



N5-10MHz-QPSK-168800-50RB#0



N5-20MHz-QPSK-166800-1RB#0



N5-20MHz-QPSK-166800-100RB#0



N5-20MHz-QPSK-167800-1RB#99



N5-20MHz-QPSK-167800-100RB#0



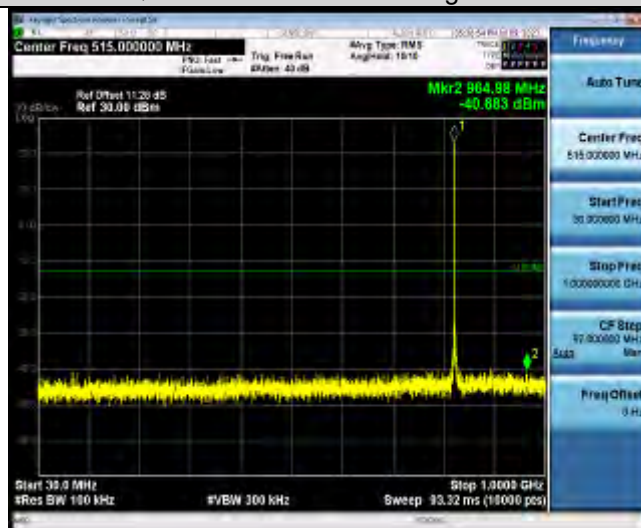
CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
N5	5MHz	QPSK	165300	1RB#0	Range1:30~1000MHz	-40.68	PASS
N5	5MHz	QPSK	165300	1RB#0	Range2:1000~10000MHz	-34.23	PASS
N5	5MHz	QPSK	167300	1RB#0	Range1:30~1000MHz	-40.3	PASS
N5	5MHz	QPSK	167300	1RB#0	Range2:1000~10000MHz	-34.2	PASS
N5	5MHz	QPSK	169300	1RB#0	Range1:30~1000MHz	-40.52	PASS
N5	5MHz	QPSK	169300	1RB#0	Range2:1000~10000MHz	-34.76	PASS
N5	10MHz	QPSK	165800	1RB#0	Range1:30~1000MHz	-40.04	PASS
N5	10MHz	QPSK	165800	1RB#0	Range2:1000~10000MHz	-34.15	PASS
N5	10MHz	QPSK	167300	1RB#0	Range1:30~1000MHz	-39.95	PASS
N5	10MHz	QPSK	167300	1RB#0	Range2:1000~10000MHz	-33.73	PASS
N5	10MHz	QPSK	168800	1RB#0	Range1:30~1000MHz	-39.91	PASS
N5	10MHz	QPSK	168800	1RB#0	Range2:1000~10000MHz	-34.42	PASS
N5	20MHz	QPSK	166800	1RB#0	Range1:30~1000MHz	-40.25	PASS
N5	20MHz	QPSK	166800	1RB#0	Range2:1000~10000MHz	-33.39	PASS
N5	20MHz	QPSK	167300	1RB#0	Range1:30~1000MHz	-39.52	PASS
N5	20MHz	QPSK	167300	1RB#0	Range2:1000~10000MHz	-33.98	PASS
N5	20MHz	QPSK	167800	1RB#0	Range1:30~1000MHz	-39.72	PASS
N5	20MHz	QPSK	167800	1RB#0	Range2:1000~10000MHz	-33.13	PASS

Test Graphs

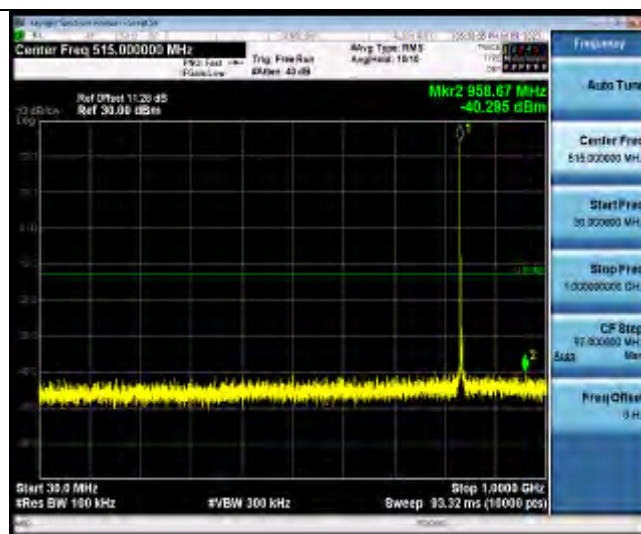
N5-5MHz-QPSK-165300-1RB#0-Range1:30~1000MHz



N5-5MHz-QPSK-165300-1RB#0-Range2:1000~10000MHz



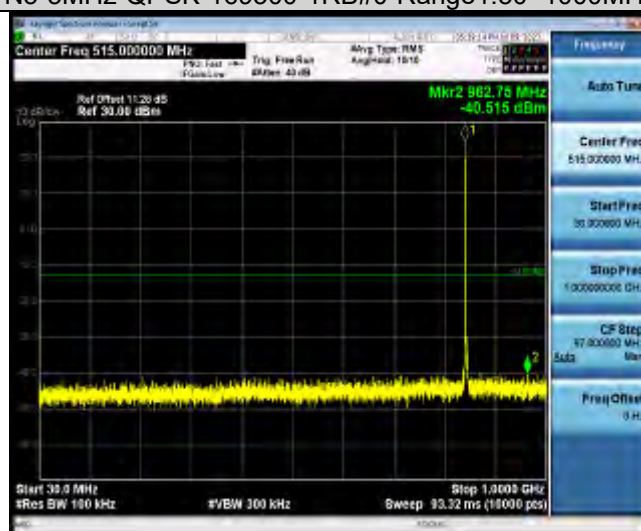
N5-5MHz-QPSK-167300-1RB#0-Range1:30~1000MHz



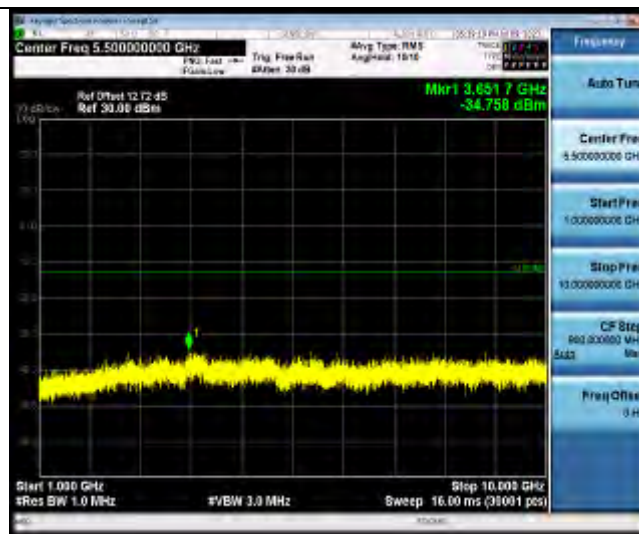
N5-5MHz-QPSK-167300-1RB#0-Range2:1000~10000MHz



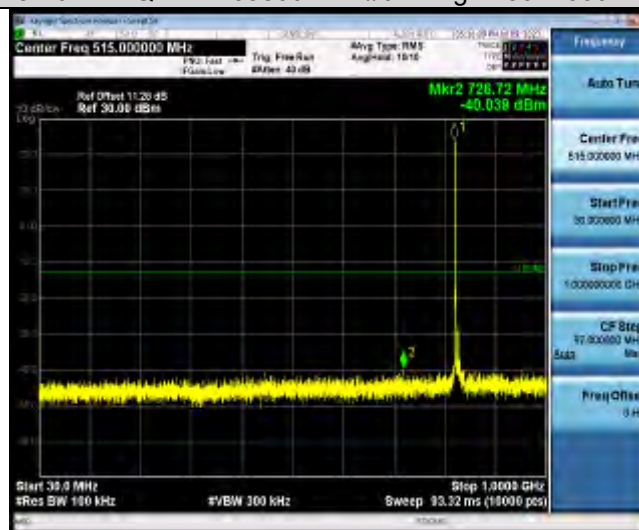
N5-5MHz-QPSK-169300-1RB#0-Range1:30~1000MHz



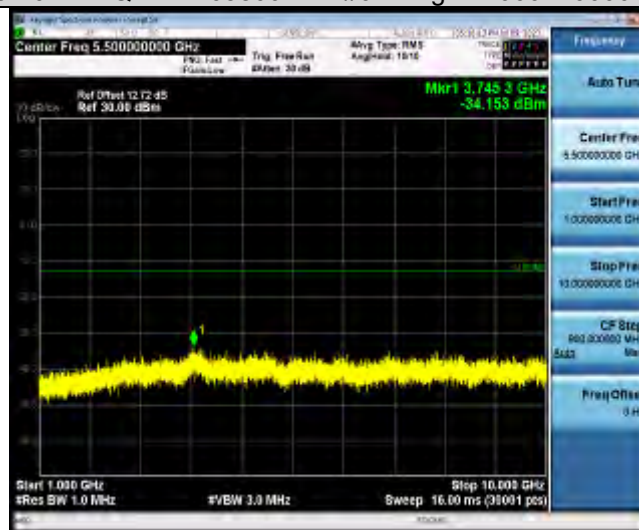
N5-5MHz-QPSK-169300-1RB#0-Range2:1000~10000MHz



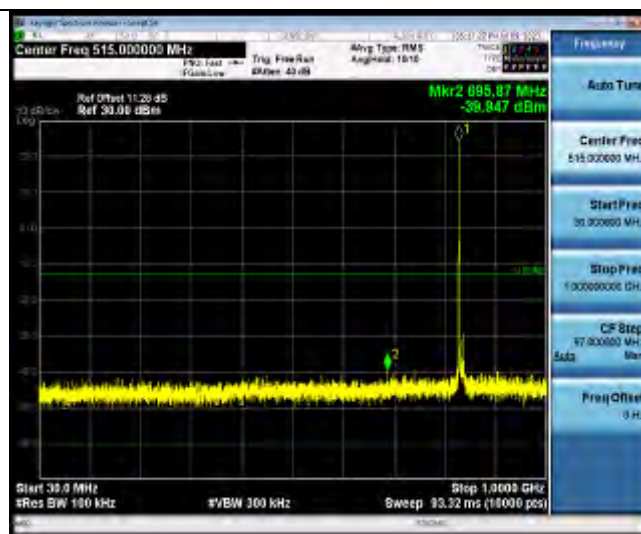
N5-10MHz-QPSK-165800-1RB#0-Range1:30~1000MHz



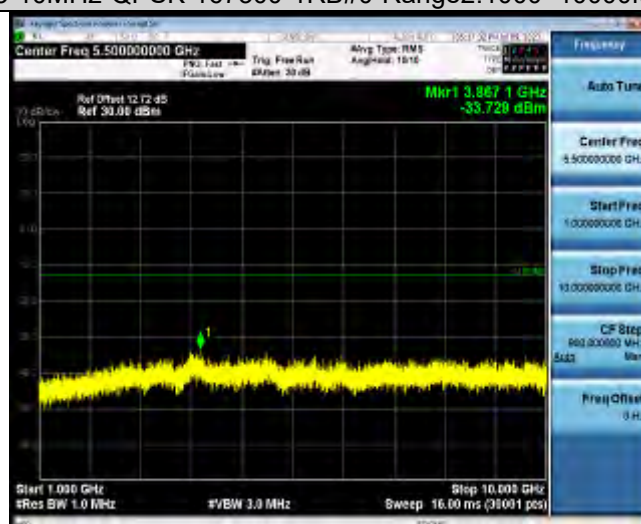
N5-10MHz-QPSK-165800-1RB#0-Range2:1000~10000MHz



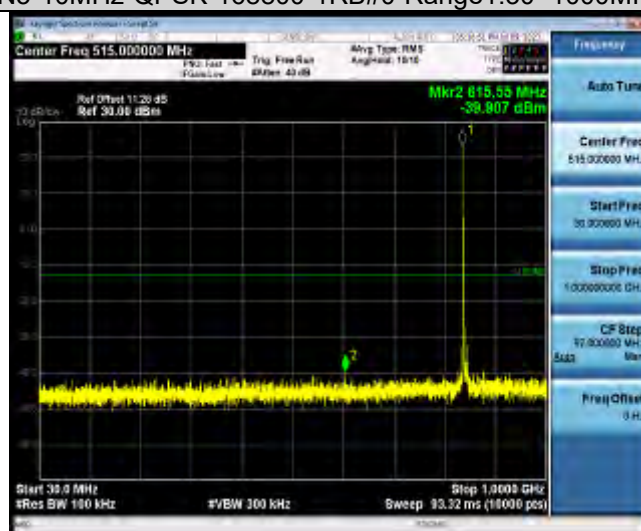
N5-10MHz-QPSK-167300-1RB#0-Range1:30~1000MHz



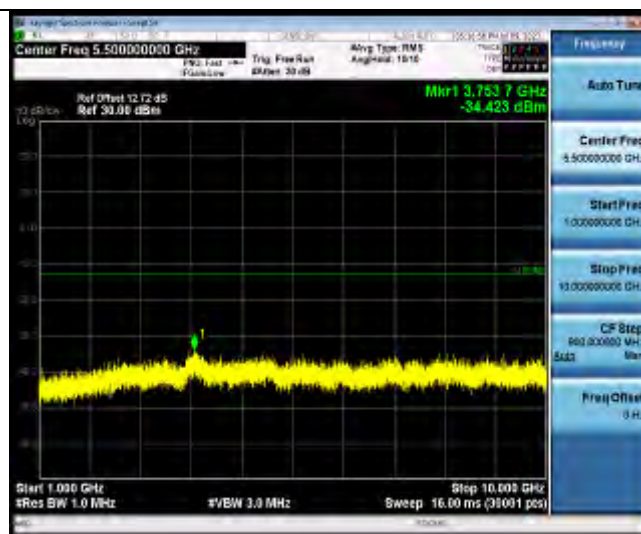
N5-10MHz-QPSK-167300-1RB#0-Range2:1000~10000MHz



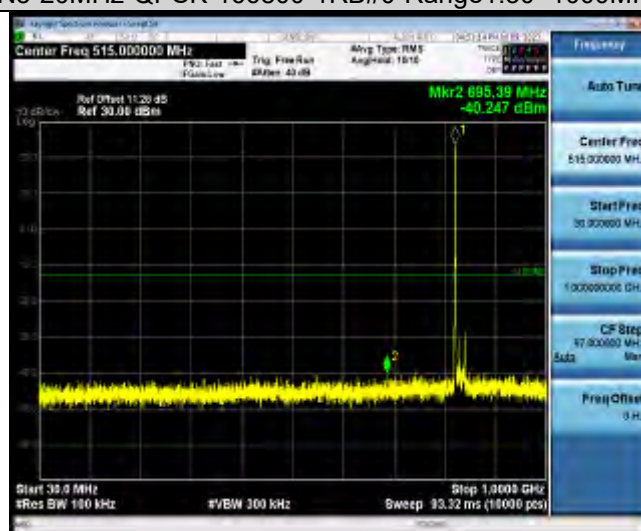
N5-10MHz-QPSK-168800-1RB#0-Range1:30~1000MHz



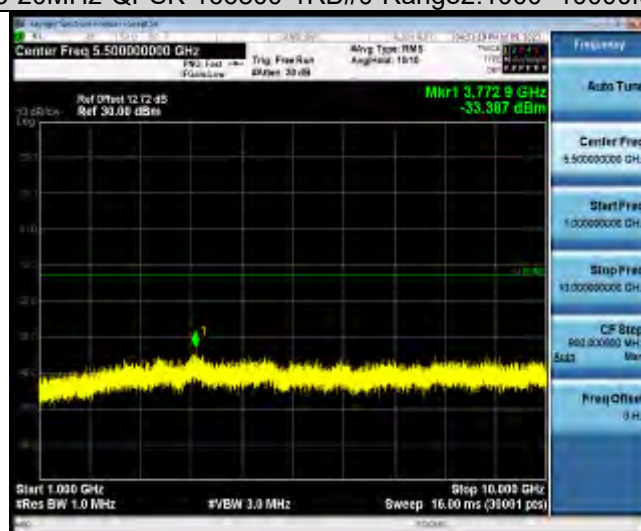
N5-10MHz-QPSK-168800-1RB#0-Range2:1000~10000MHz



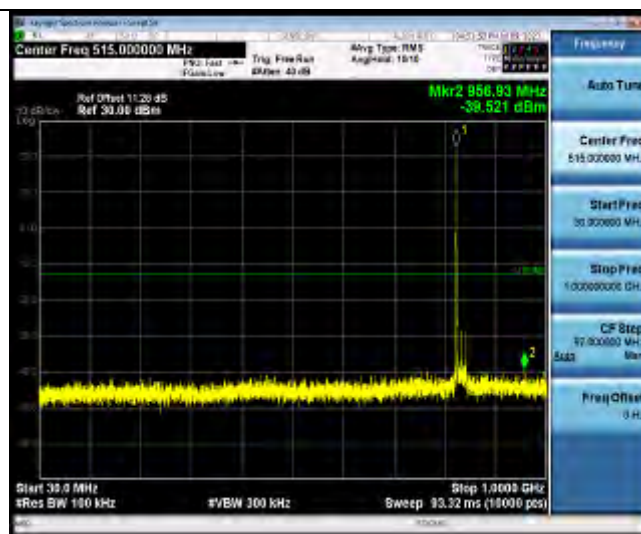
N5-20MHz-QPSK-166800-1RB#0-Range1:30~1000MHz



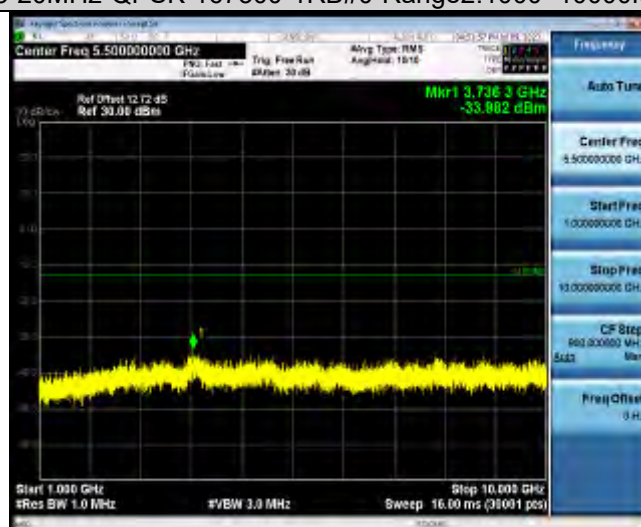
N5-20MHz-QPSK-166800-1RB#0-Range2:1000~10000MHz



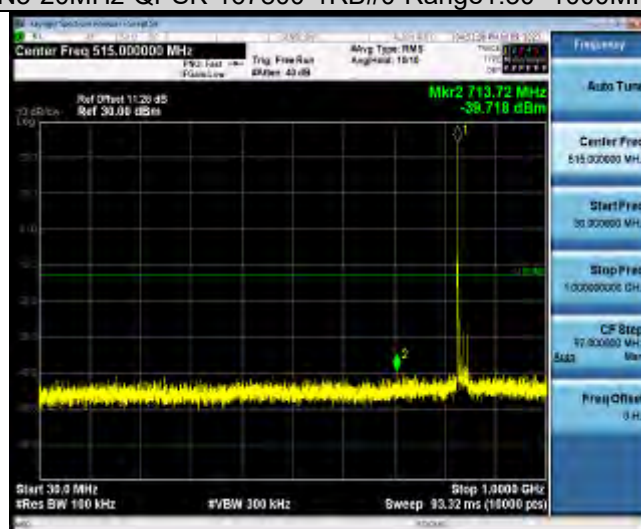
N5-20MHz-QPSK-167300-1RB#0-Range1:30~1000MHz



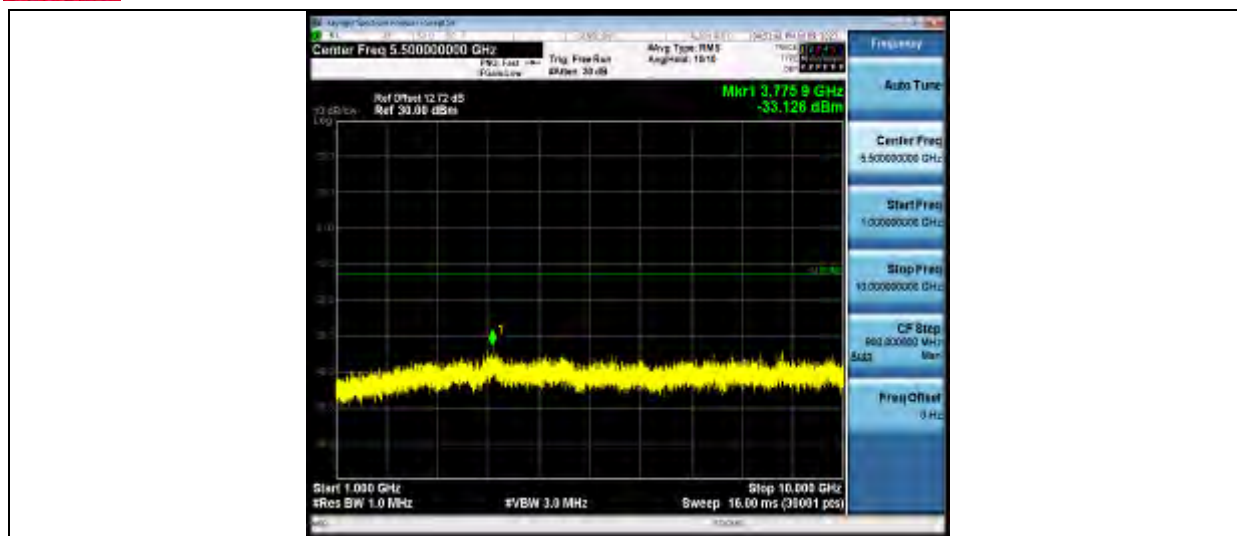
N5-20MHz-QPSK-167300-1RB#0-Range2:1000~10000MHz



N5-20MHz-QPSK-167800-1RB#0-Range1:30~1000MHz



N5-20MHz-QPSK-167800-1RB#0-Range2:1000~10000MHz





Test Report No.: PSU-QSU2306120115RF10

FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N5	20MHz	QPSK	166800	50RB#0	VL	NT	12.30	0.01475	±2.5	PASS
N5	20MHz	QPSK	166800	50RB#0	VN	NT	-69.37	-0.08318	±2.5	PASS
N5	20MHz	QPSK	166800	50RB#0	VH	NT	-78.11	-0.09366	±2.5	PASS
N5	20MHz	QPSK	167300	50RB#0	VL	NT	-17.57	-0.02100	±2.5	PASS
N5	20MHz	QPSK	167300	50RB#0	VN	NT	-89.44	-0.10692	±2.5	PASS
N5	20MHz	QPSK	167300	50RB#0	VH	NT	-40.76	-0.04873	±2.5	PASS
N5	20MHz	QPSK	167800	50RB#0	VL	NT	-13.23	-0.01577	±2.5	PASS
N5	20MHz	QPSK	167800	50RB#0	VN	NT	89.72	0.10694	±2.5	PASS
N5	20MHz	QPSK	167800	50RB#0	VH	NT	24.27	0.02892	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
N5	20MHz	QPSK	166800	50RB#0	NV	-30	-9.02	-0.01081	±2.5	PASS
N5	20MHz	QPSK	166800	50RB#0	NV	-20	-34.83	-0.04176	±2.5	PASS
N5	20MHz	QPSK	166800	50RB#0	NV	0	-67.95	-0.08148	±2.5	PASS
N5	20MHz	QPSK	166800	50RB#0	NV	10	-30.74	-0.03686	±2.5	PASS
N5	20MHz	QPSK	166800	50RB#0	NV	20	34.71	0.04161	±2.5	PASS
N5	20MHz	QPSK	166800	50RB#0	NV	30	-81.94	-0.09825	±2.5	PASS
N5	20MHz	QPSK	166800	50RB#0	NV	40	-78.08	-0.09362	±2.5	PASS
N5	20MHz	QPSK	166800	50RB#0	NV	50	-73.00	-0.08753	±2.5	PASS
N5	20MHz	QPSK	167300	50RB#0	NV	-30	-79.20	-0.09467	±2.5	PASS
N5	20MHz	QPSK	167300	50RB#0	NV	-20	-12.46	-0.01489	±2.5	PASS
N5	20MHz	QPSK	167300	50RB#0	NV	0	-43.46	-0.05195	±2.5	PASS
N5	20MHz	QPSK	167300	50RB#0	NV	10	12.44	0.01487	±2.5	PASS



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VERITAS

Test Report No.: PSU-QSU2306120115RF10

N5	20MHz	QPSK	167300	50RB#0	NV	20	90.74	0.10848	±2.5	PASS
N5	20MHz	QPSK	167300	50RB#0	NV	30	79.32	0.09482	±2.5	PASS
N5	20MHz	QPSK	167300	50RB#0	NV	40	97.43	0.11648	±2.5	PASS
N5	20MHz	QPSK	167300	50RB#0	NV	50	83.14	0.09939	±2.5	PASS
N5	20MHz	QPSK	167800	50RB#0	NV	-30	-76.98	-0.09175	±2.5	PASS
N5	20MHz	QPSK	167800	50RB#0	NV	-20	45.17	0.05384	±2.5	PASS
N5	20MHz	QPSK	167800	50RB#0	NV	0	-57.84	-0.06894	±2.5	PASS
N5	20MHz	QPSK	167800	50RB#0	NV	10	32.81	0.03910	±2.5	PASS
N5	20MHz	QPSK	167800	50RB#0	NV	20	52.81	0.06294	±2.5	PASS
N5	20MHz	QPSK	167800	50RB#0	NV	30	82.44	0.09827	±2.5	PASS
N5	20MHz	QPSK	167800	50RB#0	NV	40	19.26	0.02295	±2.5	PASS
N5	20MHz	QPSK	167800	50RB#0	NV	50	-1.33	-0.00158	±2.5	PASS



Test Report No.: PSU-QSU2306120115RF10

N7

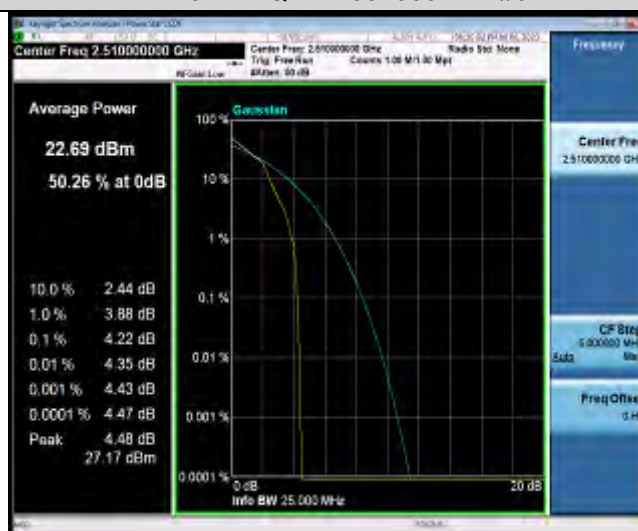
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

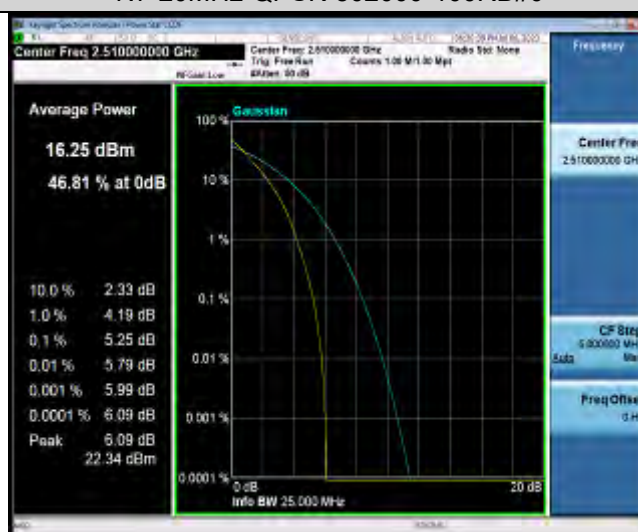
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
N7	20MHz	QPSK	502000	1RB#0	4.22	13	PASS
N7	20MHz	QPSK	502000	100RB#0	5.25	13	PASS
N7	20MHz	QPSK	507000	1RB#0	4.62	13	PASS
N7	20MHz	QPSK	507000	100RB#0	5.36	13	PASS
N7	20MHz	QPSK	512000	1RB#0	4.53	13	PASS
N7	20MHz	QPSK	512000	100RB#0	5.33	13	PASS

Test Graphs

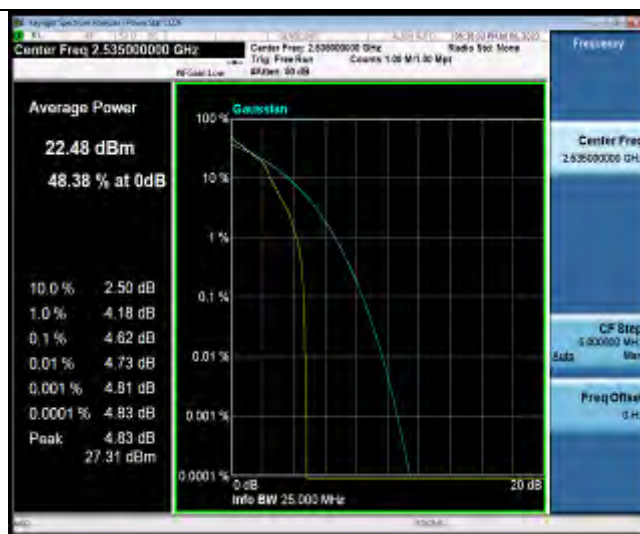
N7-20MHz-QPSK-502000-1RB#0



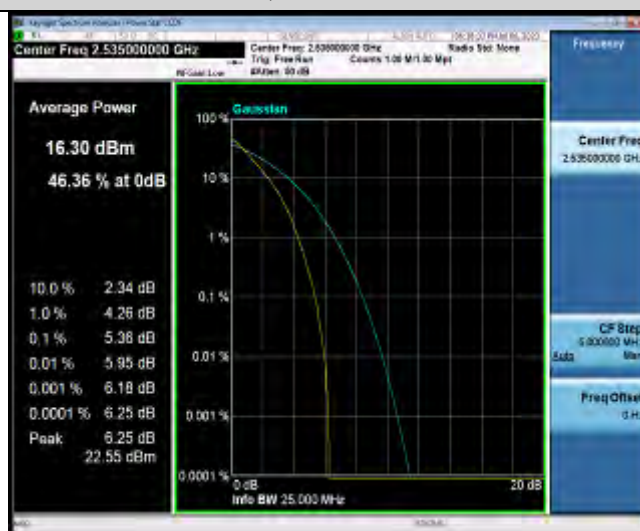
N7-20MHz-QPSK-502000-100RB#0



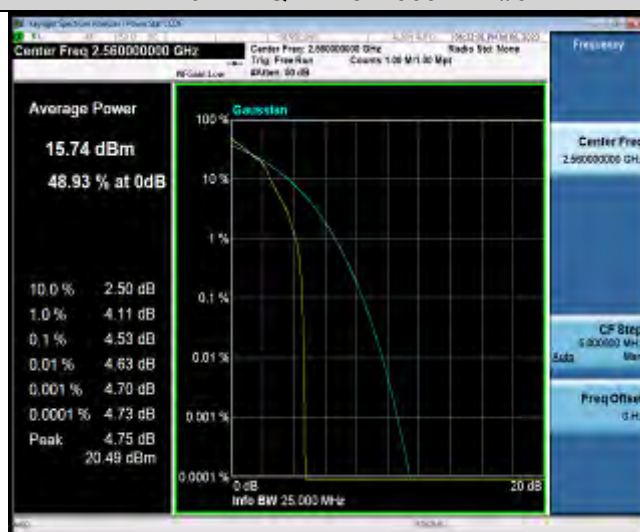
N7-20MHz-QPSK-507000-1RB#0



N7-20MHz-QPSK-507000-100RB#0



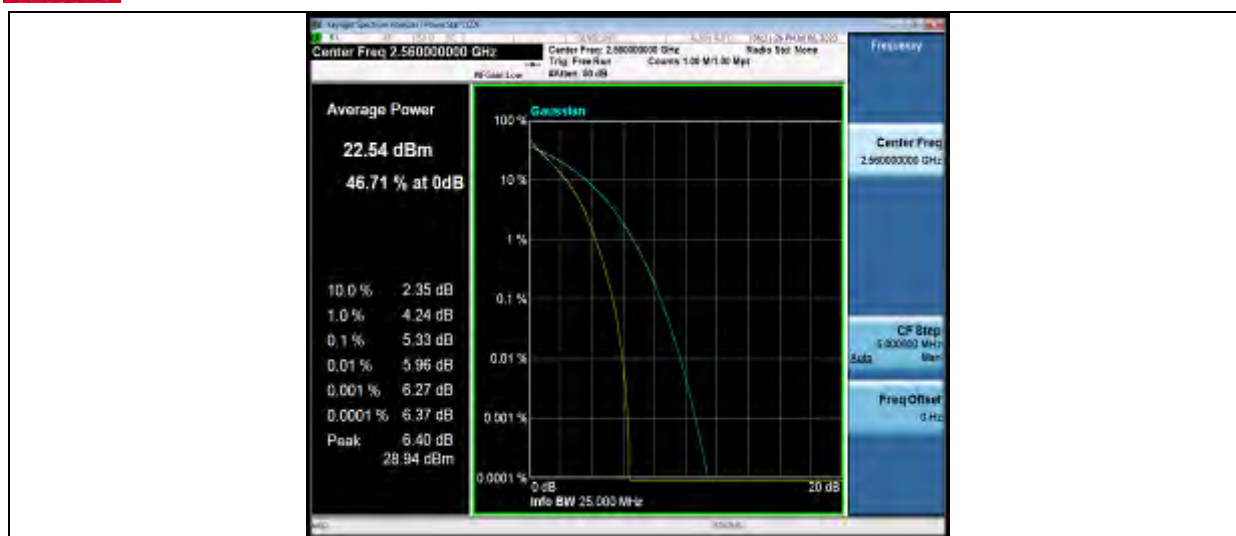
N7-20MHz-QPSK-512000-1RB#0



N7-20MHz-QPSK-512000-100RB#0



Test Report No.: PSU-QSU2306120115RF10



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

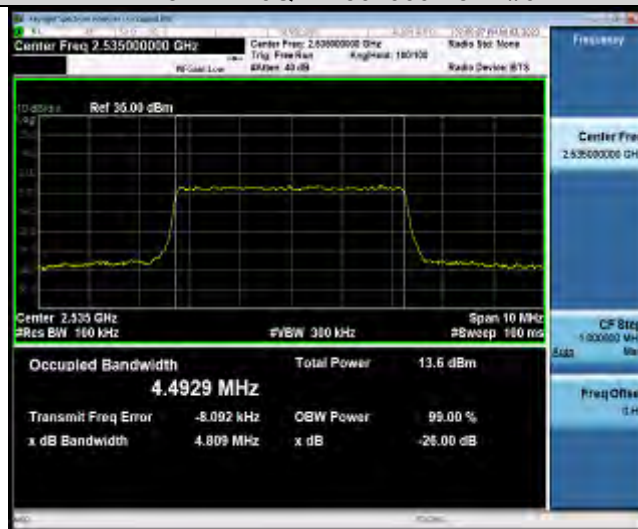
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
N7	5MHz	QPSK	507000	25RB#0	4.4877	4.816	PASS
N7	5MHz	16QAM	507000	25RB#0	4.4929	4.809	PASS
N7	5MHz	64QAM	507000	25RB#0	4.4897	4.802	PASS
N7	5MHz	256QAM	507000	25RB#0	4.4851	4.779	PASS
N7	5MHz	BPSK	507000	25RB#0	4.4970	4.808	PASS
N7	10MHz	QPSK	507000	50RB#0	8.9846	9.494	PASS
N7	10MHz	16QAM	507000	50RB#0	8.9832	9.489	PASS
N7	10MHz	64QAM	507000	50RB#0	8.9714	9.498	PASS
N7	10MHz	BPSK	507000	50RB#0	8.9724	9.483	PASS
N7	10MHz	256QAM	507000	50RB#0	8.9833	9.526	PASS
N7	15MHz	QPSK	507000	75RB#0	13.437	14.22	PASS
N7	15MHz	16QAM	507000	75RB#0	13.460	14.23	PASS
N7	15MHz	64QAM	507000	75RB#0	13.461	14.23	PASS
N7	15MHz	256QAM	507000	75RB#0	13.466	14.22	PASS
N7	15MHz	BPSK	507000	75RB#0	13.469	14.22	PASS
N7	20MHz	QPSK	507000	100RB#0	17.930	18.96	PASS
N7	20MHz	16QAM	507000	100RB#0	17.943	18.95	PASS
N7	20MHz	64QAM	507000	100RB#0	17.930	18.98	PASS
N7	20MHz	BPSK	507000	100RB#0	17.902	18.93	PASS
N7	20MHz	256QAM	507000	100RB#0	17.953	18.96	PASS

Test Graphs

N7-5MHz-QPSK-507000-25RB#0



N7-5MHz-16QAM-507000-25RB#0



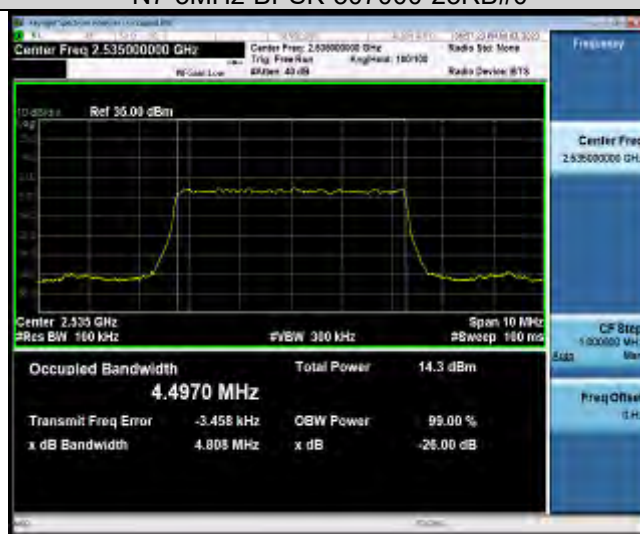
N7-5MHz-64QAM-507000-25RB#0



N7-5MHz-256QAM-507000-25RB#0



N7-5MHz-BPSK-507000-25RB#0



N7-10MHz-QPSK-507000-50RB#0



N7-10MHz-16QAM-507000-50RB#0



N7-10MHz-64QAM-507000-50RB#0



N7-10MHz-BPSK-507000-50RB#0



N7-10MHz-256QAM-507000-50RB#0



N7-15MHz-QPSK-507000-75RB#0



N7-15MHz-16QAM-507000-75RB#0



N7-15MHz-64QAM-507000-75RB#0



N7-15MHz-256QAM-507000-75RB#0



N7-15MHz-BPSK-507000-75RB#0



N7-20MHz-QPSK-507000-100RB#0



N7-20MHz-16QAM-507000-100RB#0



N7-20MHz-64QAM-507000-100RB#0



N7-20MHz-BPSK-507000-100RB#0



N7-20MHz-256QAM-507000-100RB#0



BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
N7	5MHz	QPSK	500500	1RB#0	-47.83,-43.84,-38.66,-26.65	PASS
N7	5MHz	QPSK	500500	25RB#0	-40.20,-29.37,-27.80,-31.19	PASS
N7	5MHz	QPSK	513500	1RB#24	-24.51,-38.74,-45.83,-48.06	PASS
N7	5MHz	QPSK	513500	25RB#0	-31.79,-26.91,-37.70,-41.34	PASS
N7	10MHz	QPSK	501000	1RB#0	-48.06,-40.55,-39.73,-28.50	PASS
N7	10MHz	QPSK	501000	50RB#0	-37.74,-31.87,-29.90,-31.47	PASS
N7	10MHz	QPSK	513000	1RB#49	-38.77,-40.92,-45.69,-48.22	PASS
N7	10MHz	QPSK	513000	50RB#0	-32.26,-28.69,-31.86,-39.66	PASS
N7	20MHz	QPSK	502000	1RB#0	-45.35,-41.58,-40.83,-29.59	PASS
N7	20MHz	QPSK	502000	100RB#0	-35.92,-33.90,-33.11,-33.36	PASS
N7	20MHz	QPSK	512000	1RB#99	-30.52,-40.76,-41.55,-49.36	PASS
N7	20MHz	QPSK	512000	100RB#0	-34.03,-31.58,-33.69,-45.57	PASS

Test Graphs

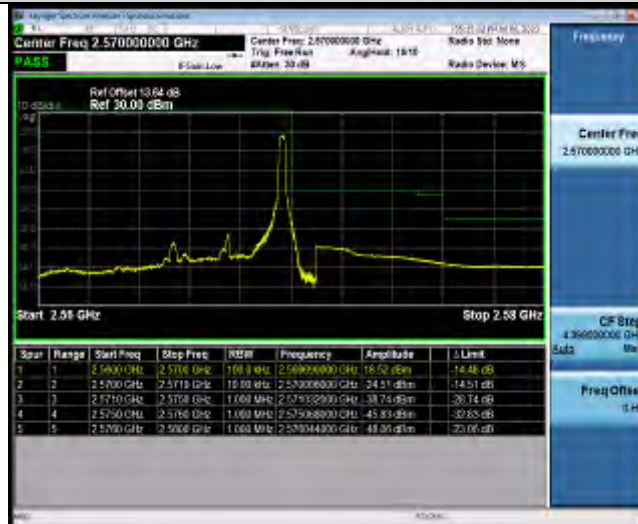
N7-5MHz-QPSK-500500-1RB#0



N7-5MHz-QPSK-500500-25RB#0



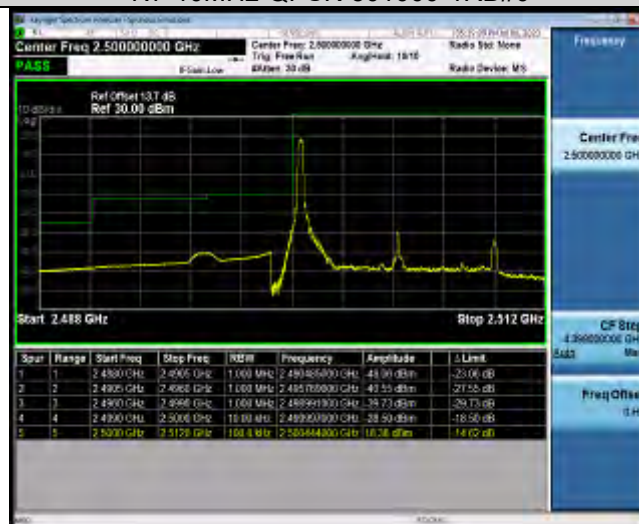
N7-5MHz-QPSK-513500-1RB#24



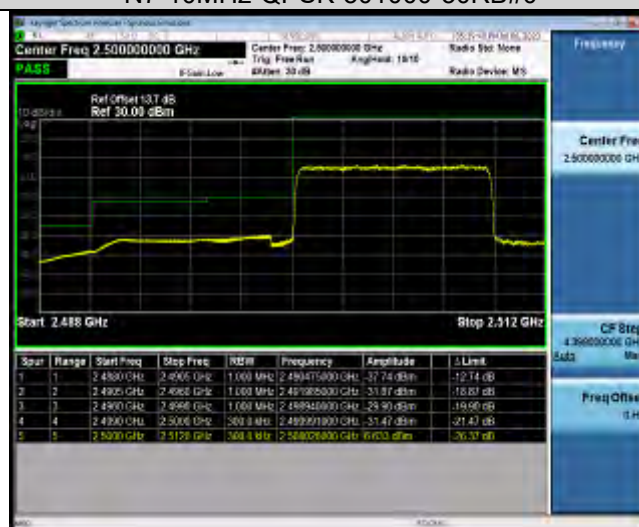
N7-5MHz-QPSK-513500-25RB#0



N7-10MHz-QPSK-501000-1RB#0



N7-10MHz-QPSK-501000-50RB#0



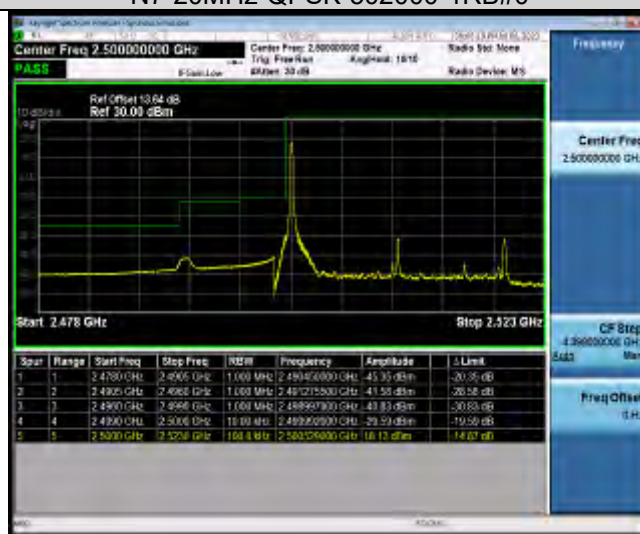
N7-10MHz-QPSK-513000-1RB#49



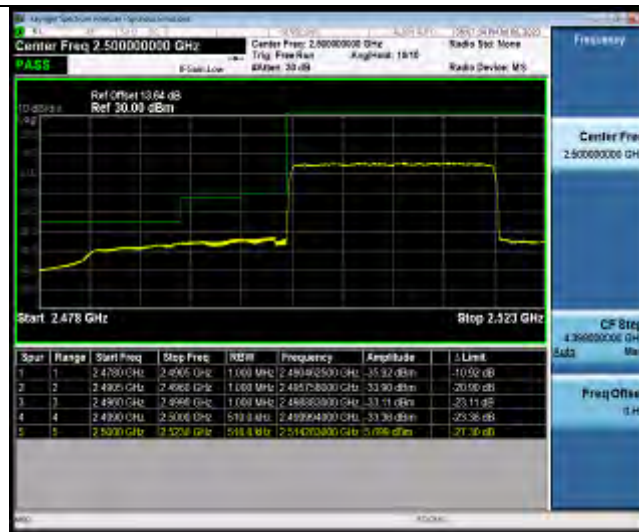
N7-10MHz-QPSK-513000-50RB#0



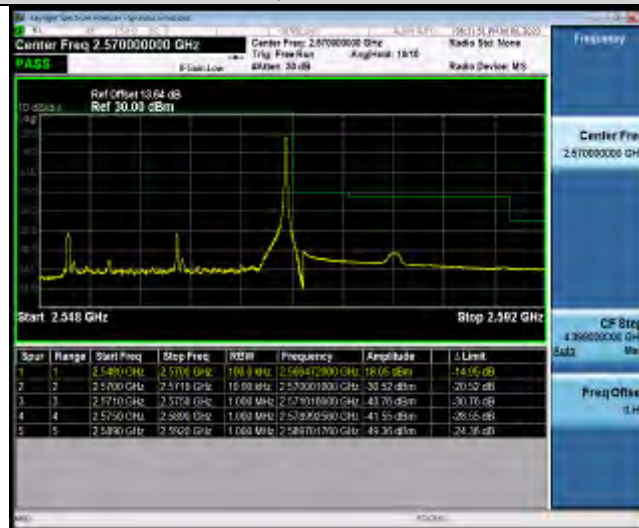
N7-20MHz-QPSK-502000-1RB#0



N7-20MHz-QPSK-502000-100RB#0



N7-20MHz-QPSK-512000-1RB#99



N7-20MHz-QPSK-512000-100RB#0



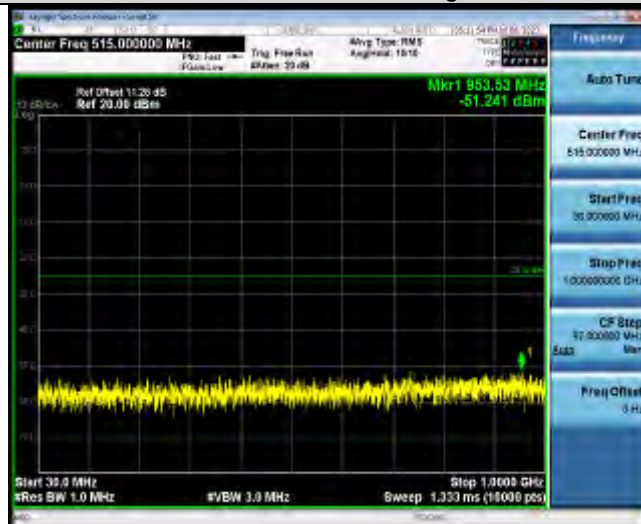
CONDUCTED SPURIOUS EMISSION

Test Result

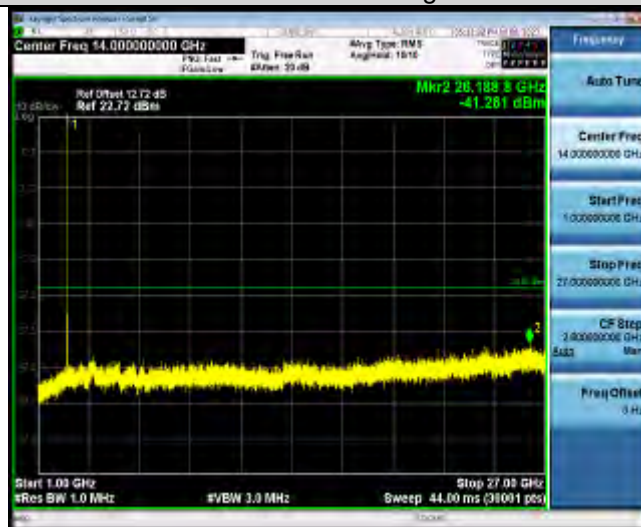
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
N7	5MHz	QPSK	500500	1RB#0	Range1:30~1000MHz	-51.24	PASS
N7	5MHz	QPSK	500500	1RB#0	Range2:1000~27000MHz	-41.26	PASS
N7	5MHz	QPSK	507000	1RB#0	Range1:30~1000MHz	-51.27	PASS
N7	5MHz	QPSK	507000	1RB#0	Range2:1000~27000MHz	-40.92	PASS
N7	5MHz	QPSK	513500	1RB#0	Range1:30~1000MHz	-50.46	PASS
N7	5MHz	QPSK	513500	1RB#0	Range2:1000~27000MHz	-40.26	PASS
N7	10MHz	QPSK	501000	1RB#0	Range1:30~1000MHz	-50.26	PASS
N7	10MHz	QPSK	501000	1RB#0	Range2:1000~27000MHz	-40.52	PASS
N7	10MHz	QPSK	513000	1RB#0	Range1:30~1000MHz	-51.05	PASS
N7	10MHz	QPSK	513000	1RB#0	Range2:1000~27000MHz	-40	PASS
N7	20MHz	QPSK	502000	1RB#0	Range1:30~1000MHz	-50.84	PASS
N7	20MHz	QPSK	502000	1RB#0	Range2:1000~27000MHz	-40.75	PASS
N7	20MHz	QPSK	507000	1RB#0	Range1:30~1000MHz	-50.29	PASS
N7	20MHz	QPSK	507000	1RB#0	Range2:1000~27000MHz	-41.04	PASS
N7	20MHz	QPSK	512000	1RB#0	Range1:30~1000MHz	-50.36	PASS
N7	20MHz	QPSK	512000	1RB#0	Range2:1000~27000MHz	-40.91	PASS

Test Graphs

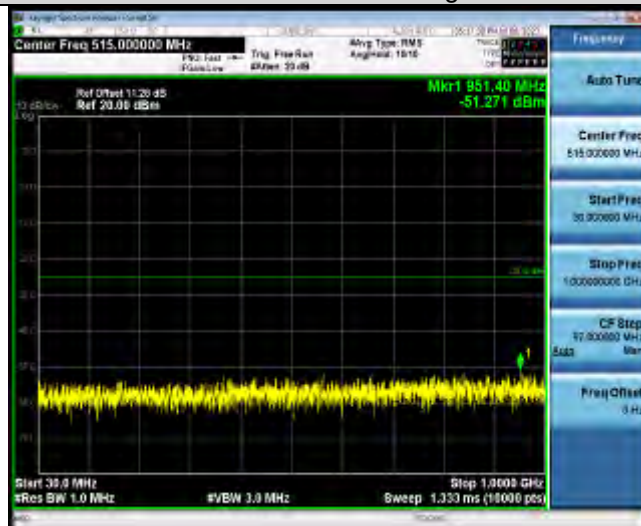
N7-5MHz-QPSK-500500-1RB#0-Range1:30~1000MHz



N7-5MHz-QPSK-500500-1RB#0-Range2:1000~27000MHz



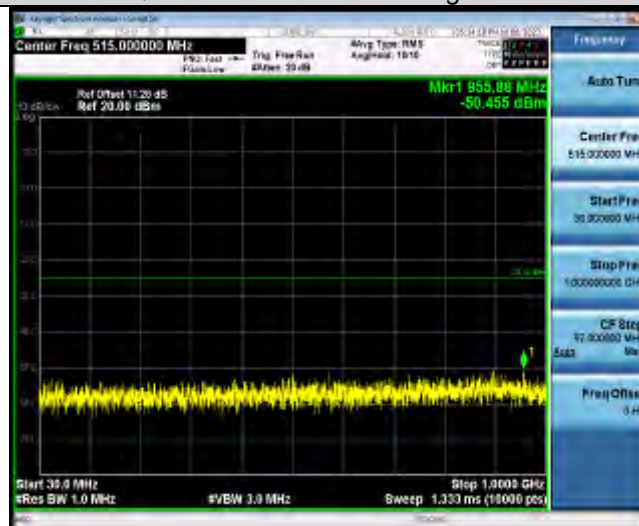
N7-5MHz-QPSK-507000-1RB#0-Range1:30~1000MHz



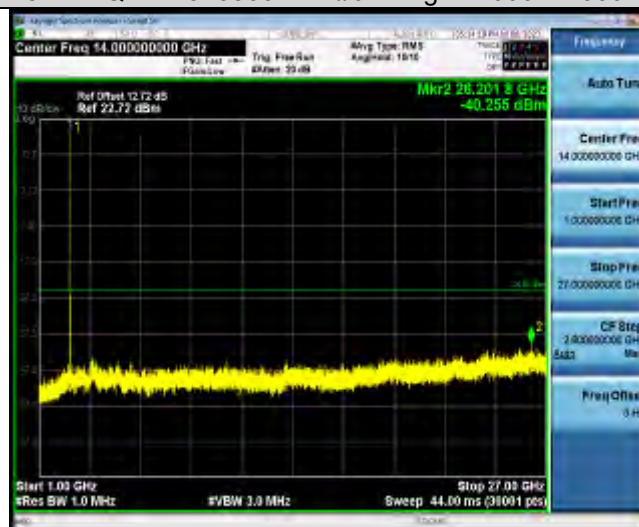
N7-5MHz-QPSK-507000-1RB#0-Range2:1000~27000MHz



N7-5MHz-QPSK-513500-1RB#0-Range1:30~1000MHz



N7-5MHz-QPSK-513500-1RB#0-Range2:1000~27000MHz



N7-10MHz-QPSK-501000-1RB#0-Range1:30~1000MHz