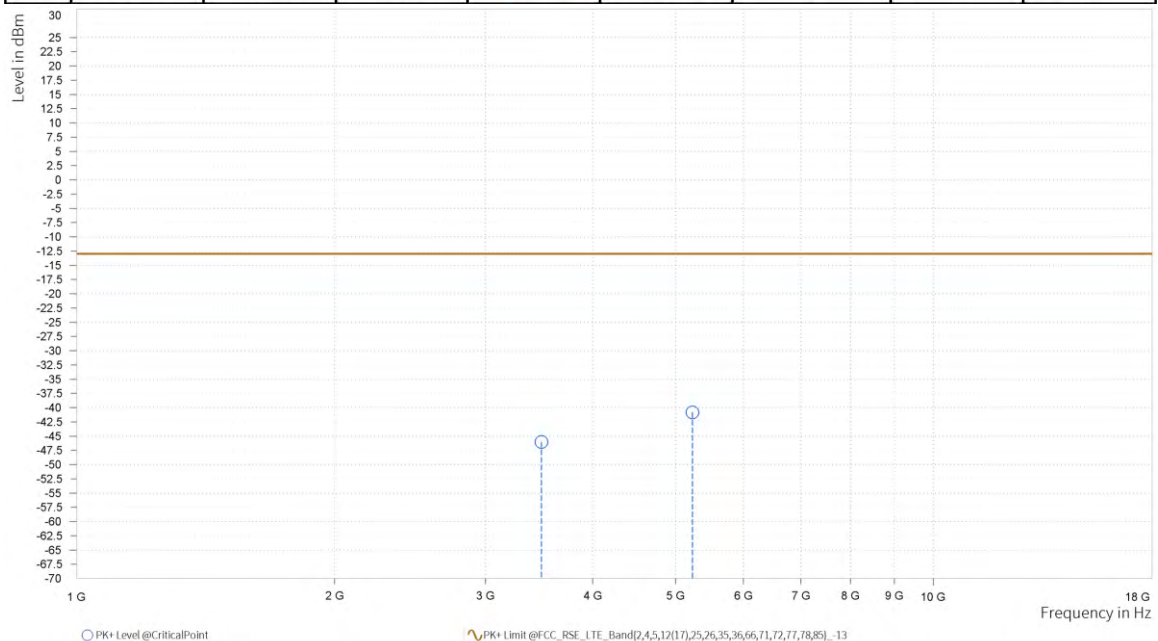




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

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]
4	3,487.300	-46.01	-13.00	33.01	26.27	H	1	1.00
4	5,230.950	-40.83	-13.00	27.83	33.48	H	359	2.00

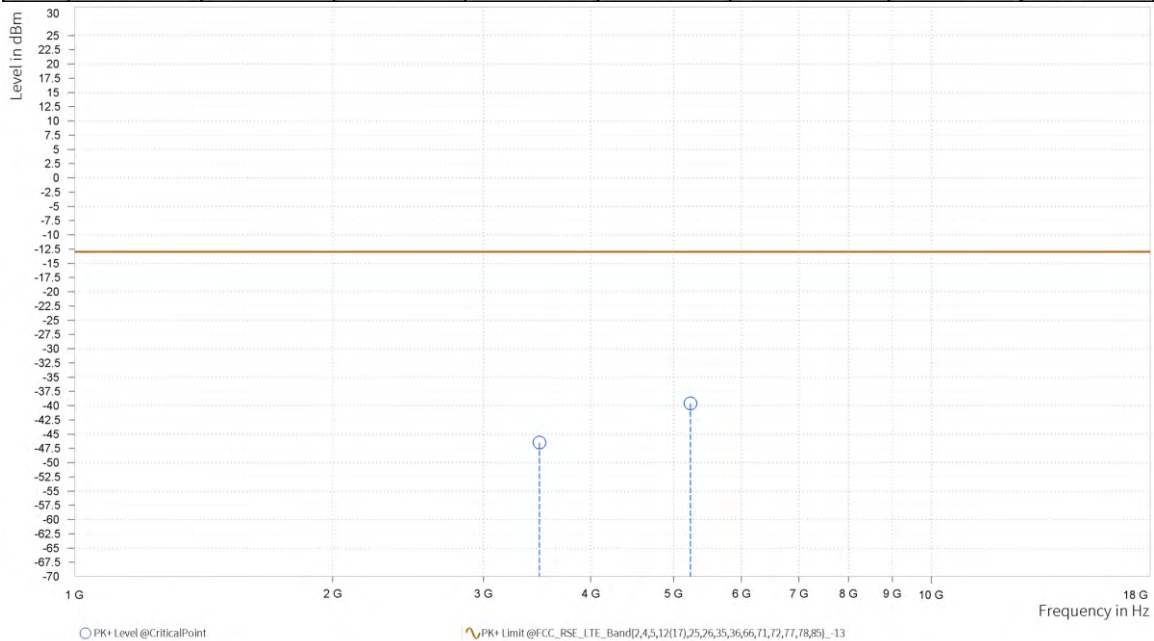




CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

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]
4	3,487.300	-46.50	-13.00	33.50	26.04	V	96.4	2.00
4	5,230.950	-39.62	-13.00	26.62	33.45	V	359	2.00

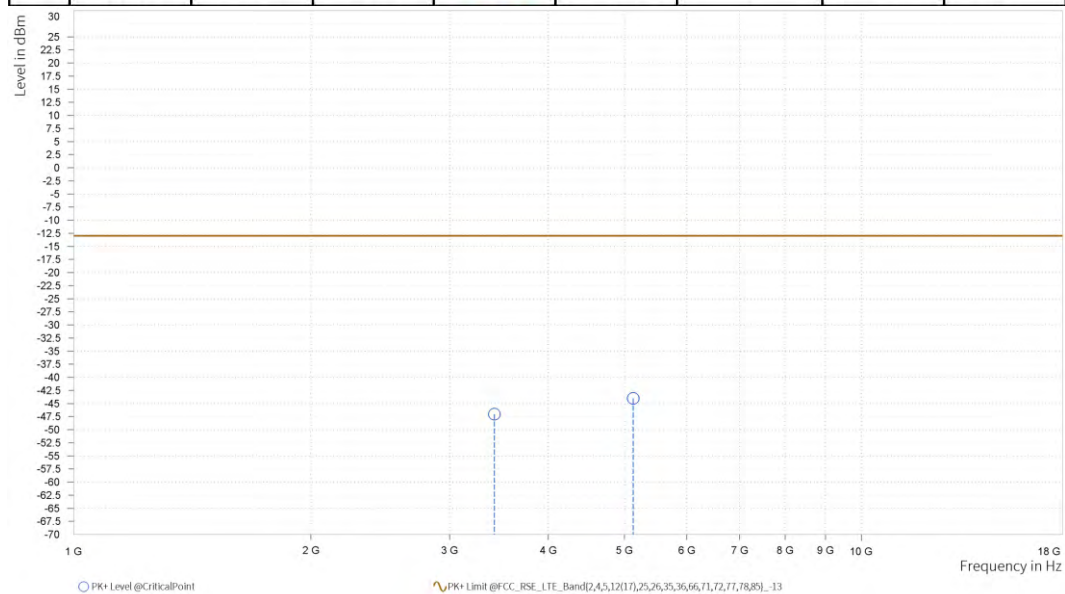




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 131997
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu
TESTED BY	Hanwen Xu		

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]
4	3,420.500	-47.04	-13.00	34.04	26.84	H	1	1.00
4	5,130.750	-44.04	-13.00	31.04	30.99	H	359	1.00

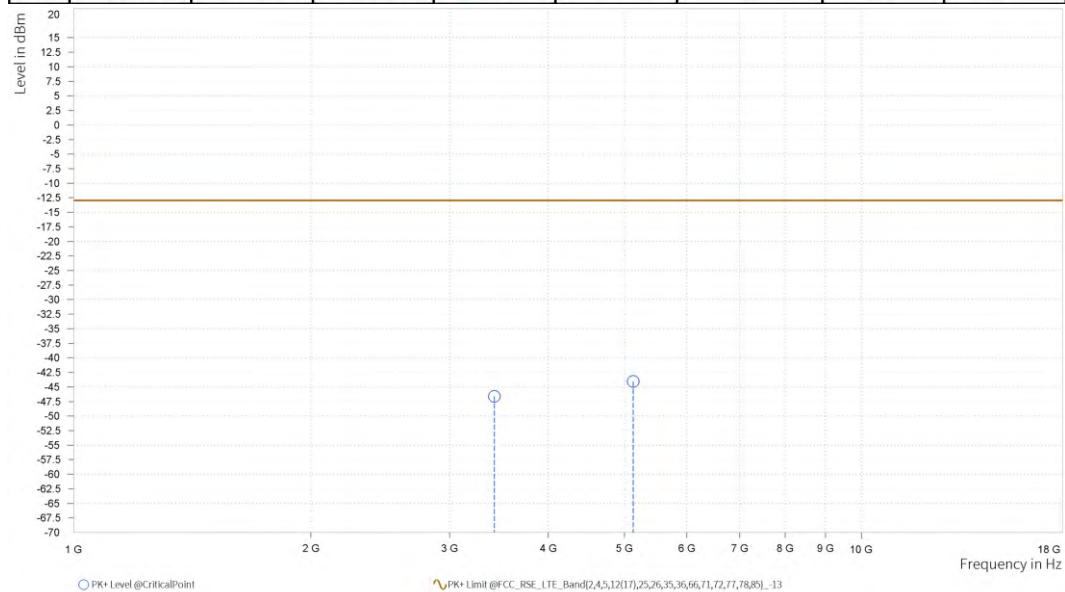




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 131997
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

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]
4	3,420.500	-46.64	-13.00	33.64	26.64	V	359	2.00
4	5,130.750	-44.07	-13.00	31.07	30.85	V	1	1.00

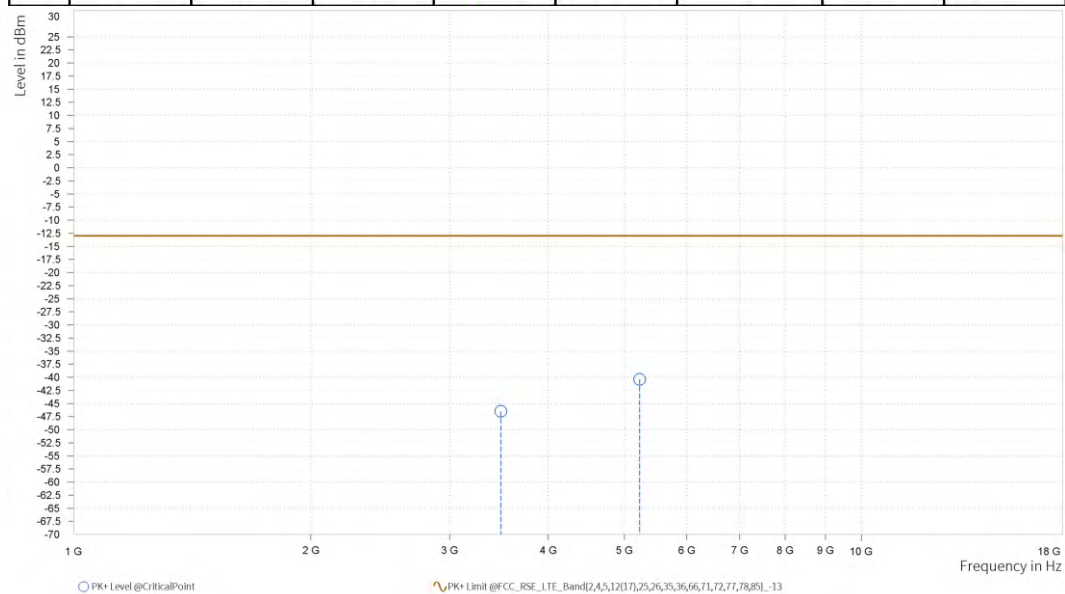




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu
TESTED BY	Hanwen Xu		

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]
4	3,485.500	-46.50	-13.00	33.50	26.29	H	245.8	1.00
4	5,228.250	-40.38	-13.00	27.38	33.39	H	0.9	2.00

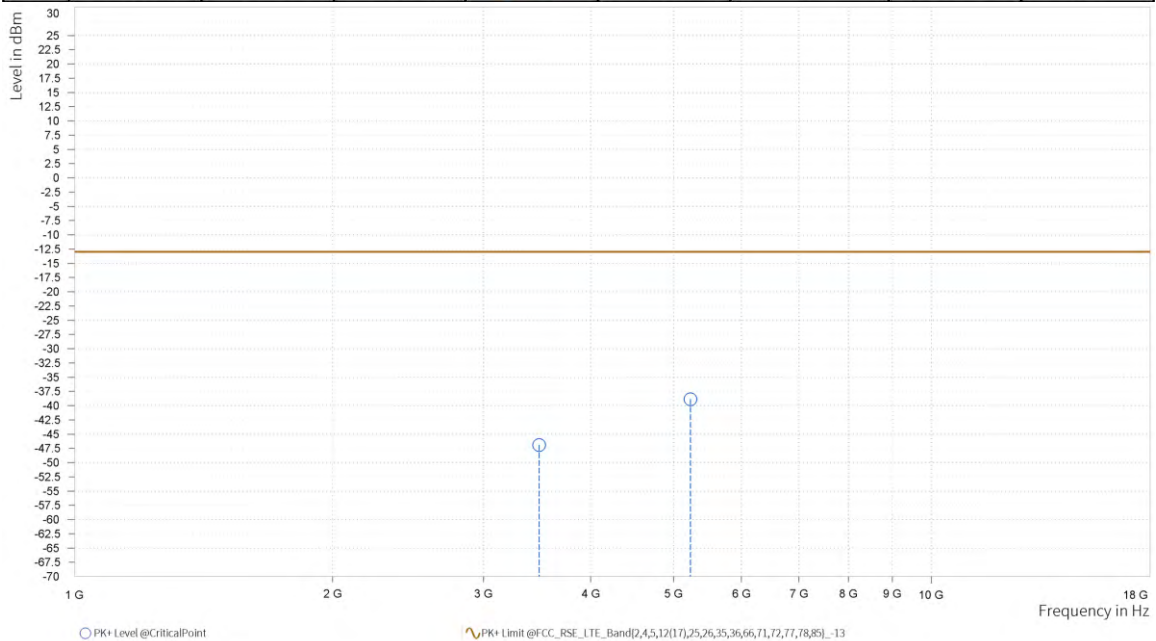




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

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]
4	3,485.500	-46.92	-13.00	33.92	26.06	V	116.6	2.00
4	5,231.000	-38.87	-13.00	25.87	33.45	V	310.3	1.00

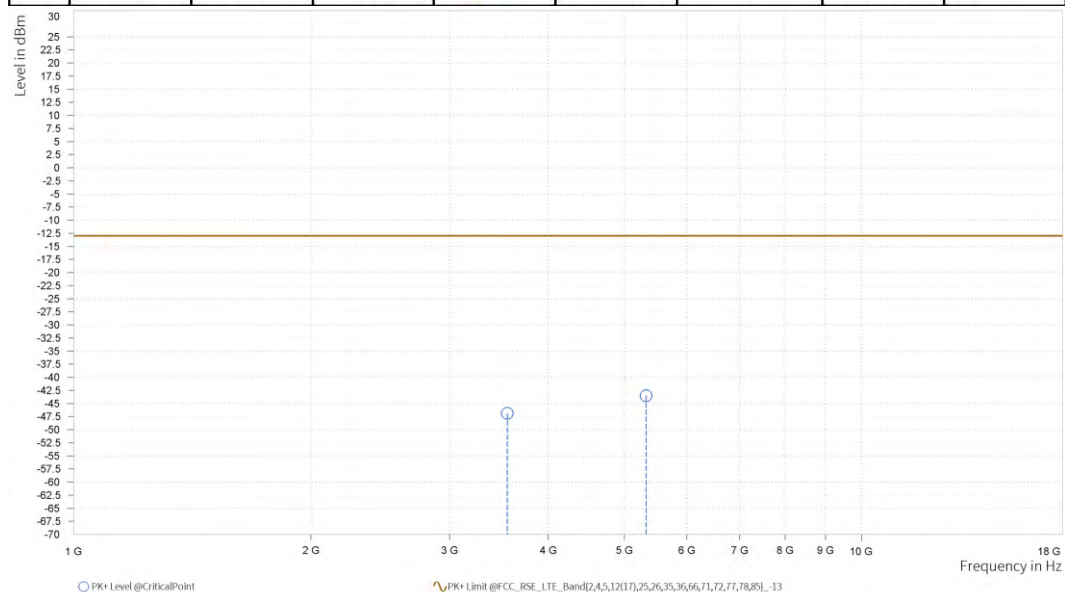




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 132647
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu
TESTED BY	Hanwen Xu		

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]
4	3,550.500	-46.87	-13.00	33.87	26.60	H	108.4	2.00
4	5,325.750	-43.49	-13.00	30.49	32.39	H	108.4	2.00

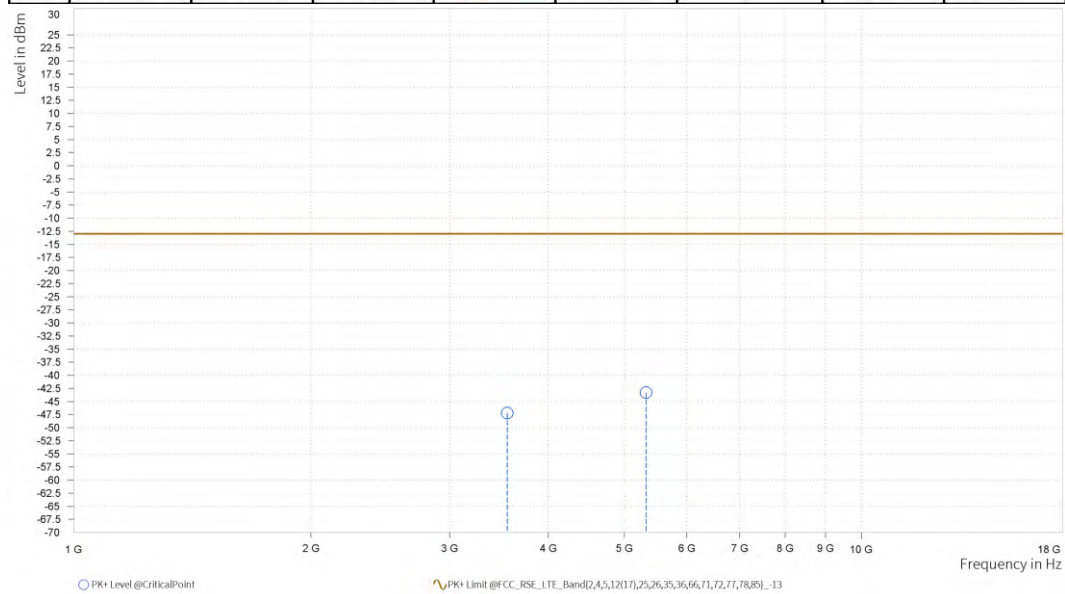




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 132647
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

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]
4	3,550.500	-47.23	-13.00	34.23	26.52	V	359	2.00
4	5,325.750	-43.32	-13.00	30.32	32.26	V	0.9	2.00

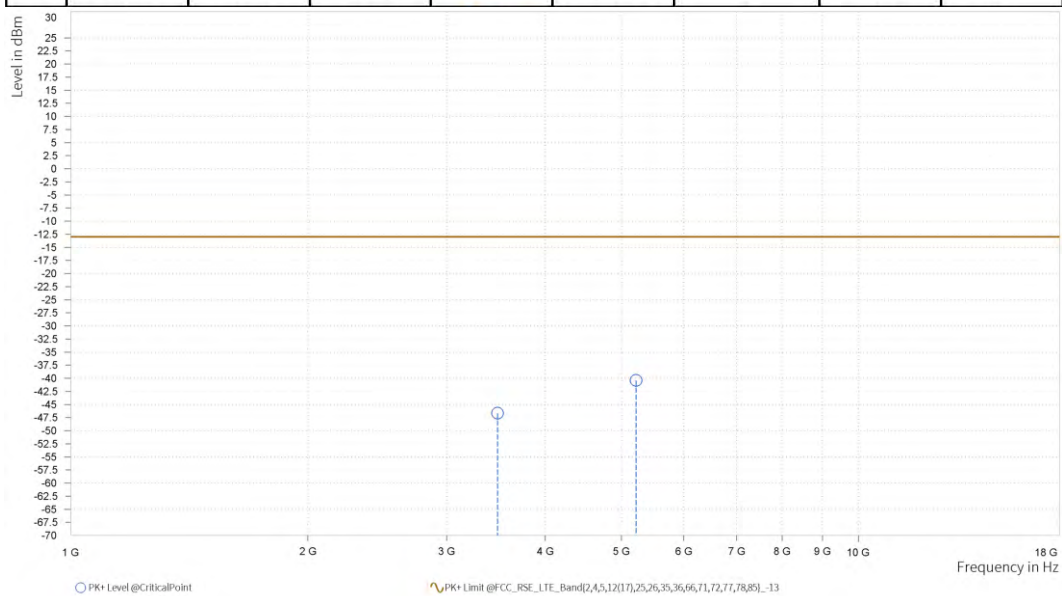




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

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]
4	3,481.000	-46.66	-13.00	33.66	26.35	H	359	2.00
4	5,221.500	-40.42	-13.00	27.42	32.64	H	359.1	1.00

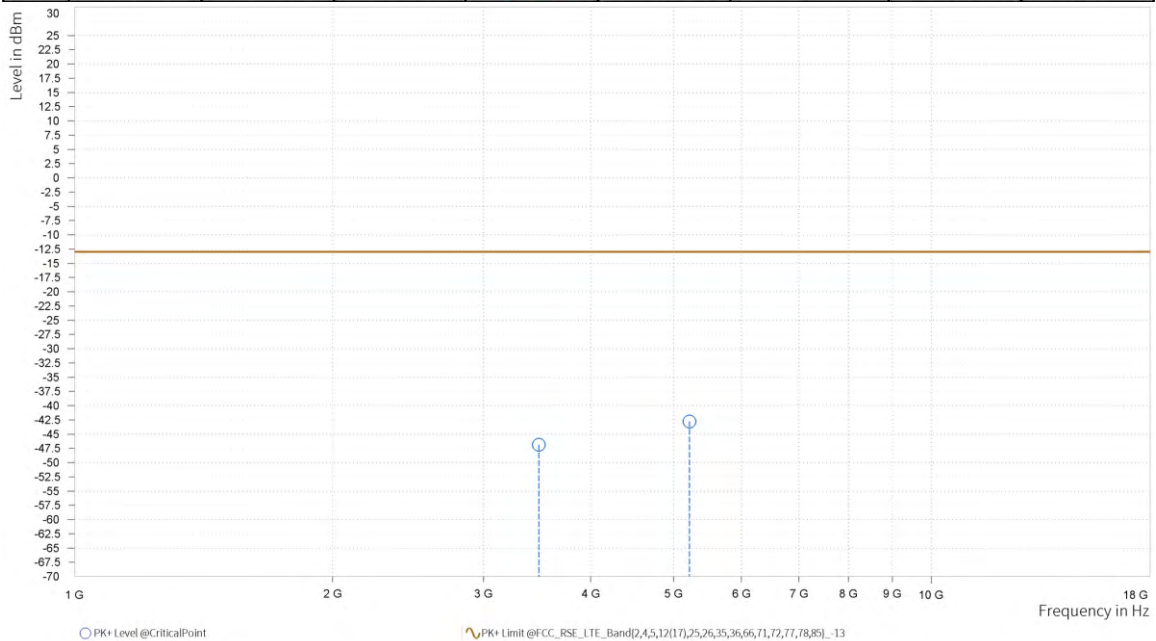




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

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]
4	3,481.000	-46.88	-13.00	33.88	26.10	V	1	1.00
4	5,221.500	-42.77	-13.00	29.77	32.62	V	359.1	1.00

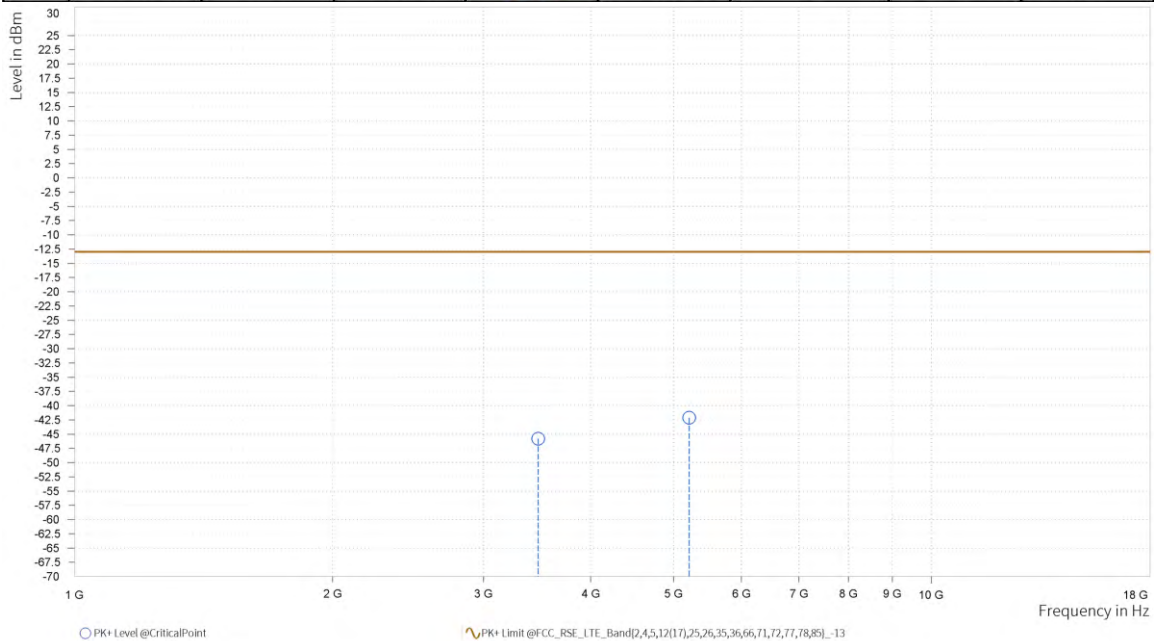




CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

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]
4	3,476.500	-45.79	-13.00	32.79	26.32	H	109.5	2.00
4	5,214.750	-42.15	-13.00	29.15	32.12	H	250.6	1.00

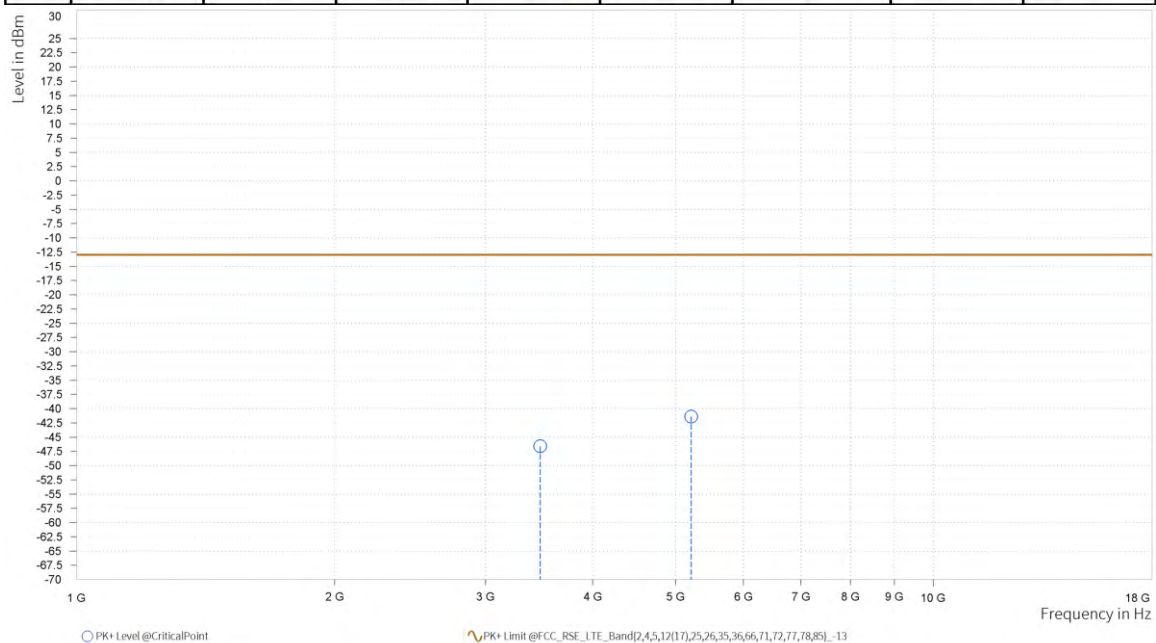




CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

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]
4	3,476.500	-46.60	-13.00	33.60	26.06	V	108.4	2.00
4	5,214.750	-41.38	-13.00	28.38	32.11	V	0.9	2.00

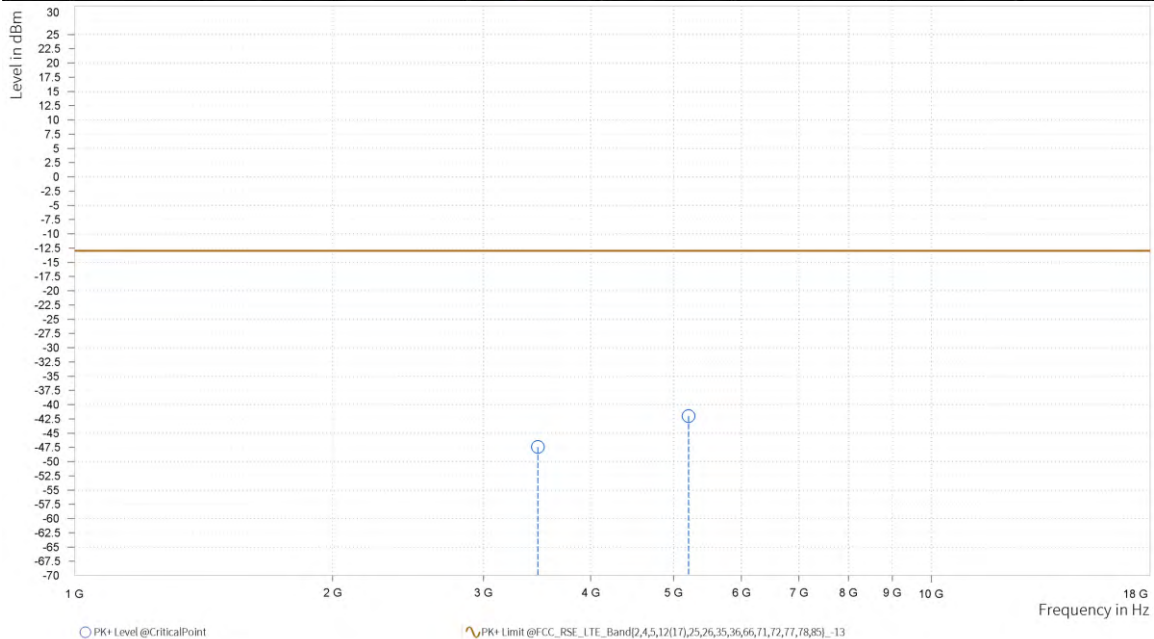




CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

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]
4	3,472.000	-47.44	-13.00	34.44	26.27	H	248.2	1.00
4	5,208.000	-42.00	-13.00	29.00	31.90	H	0.9	2.00

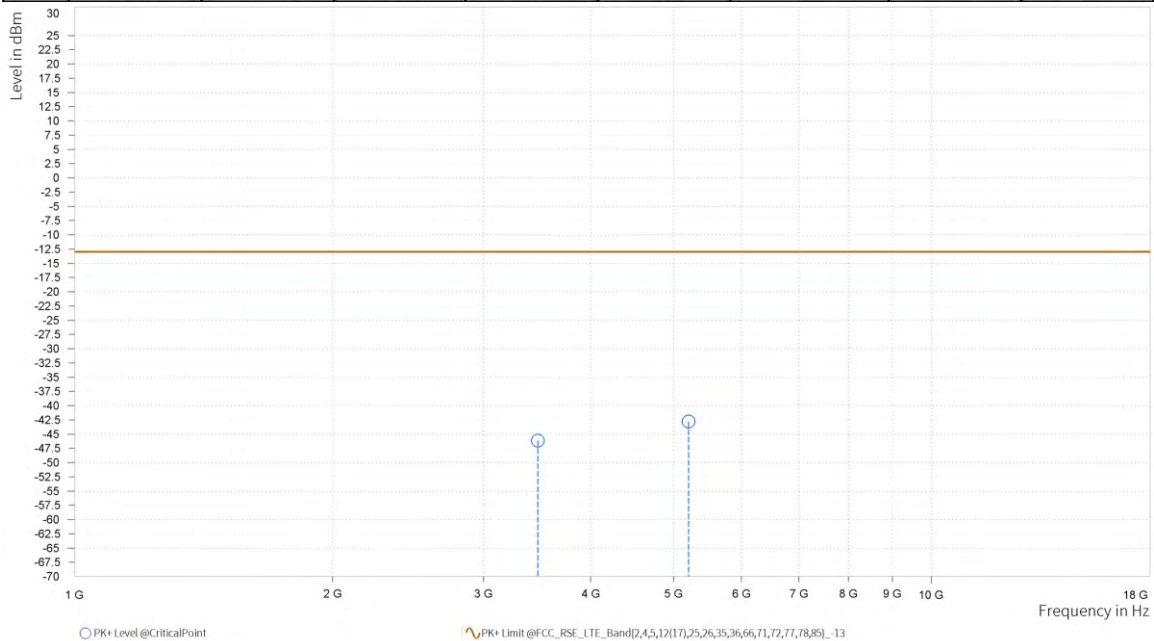


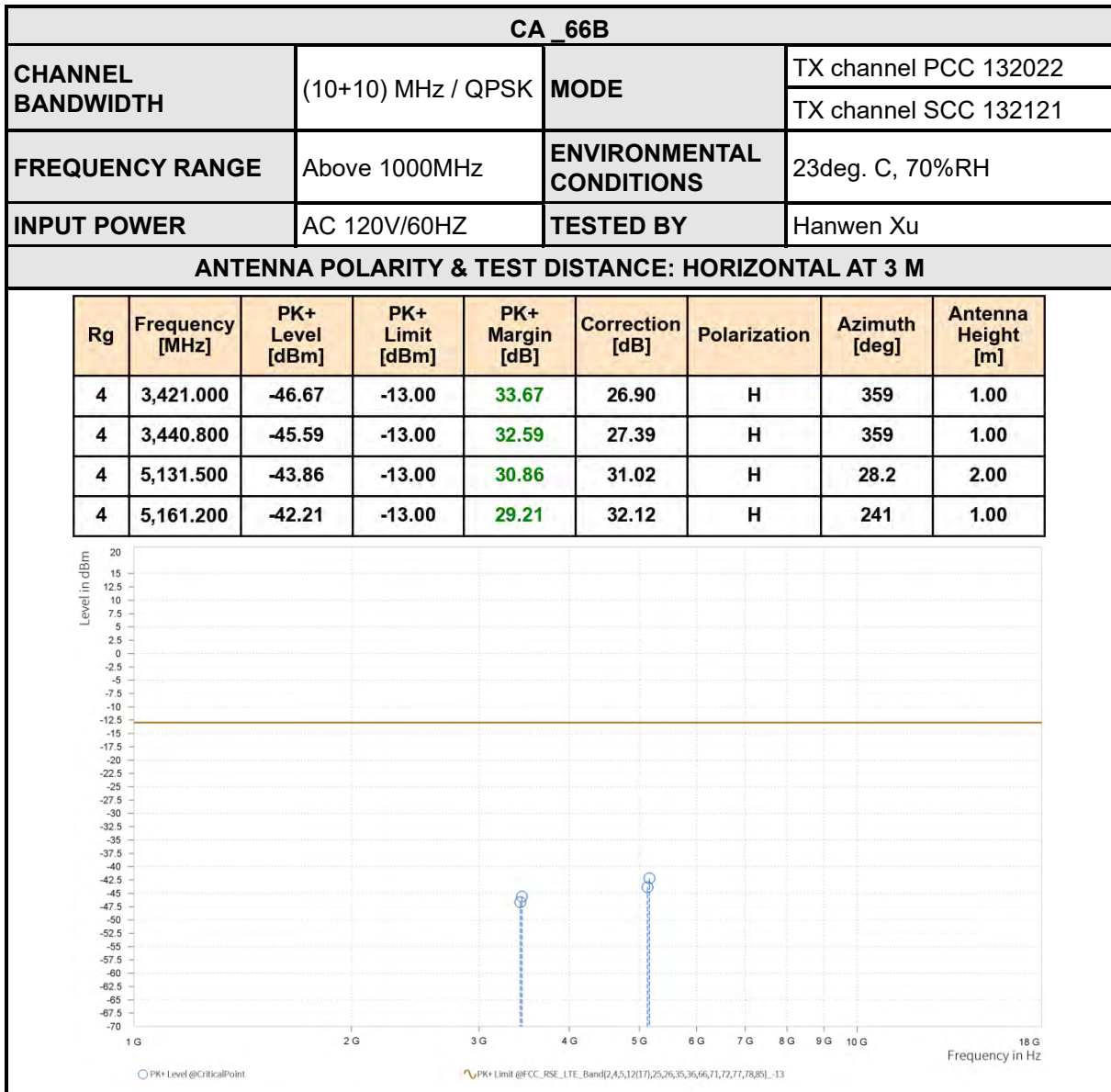


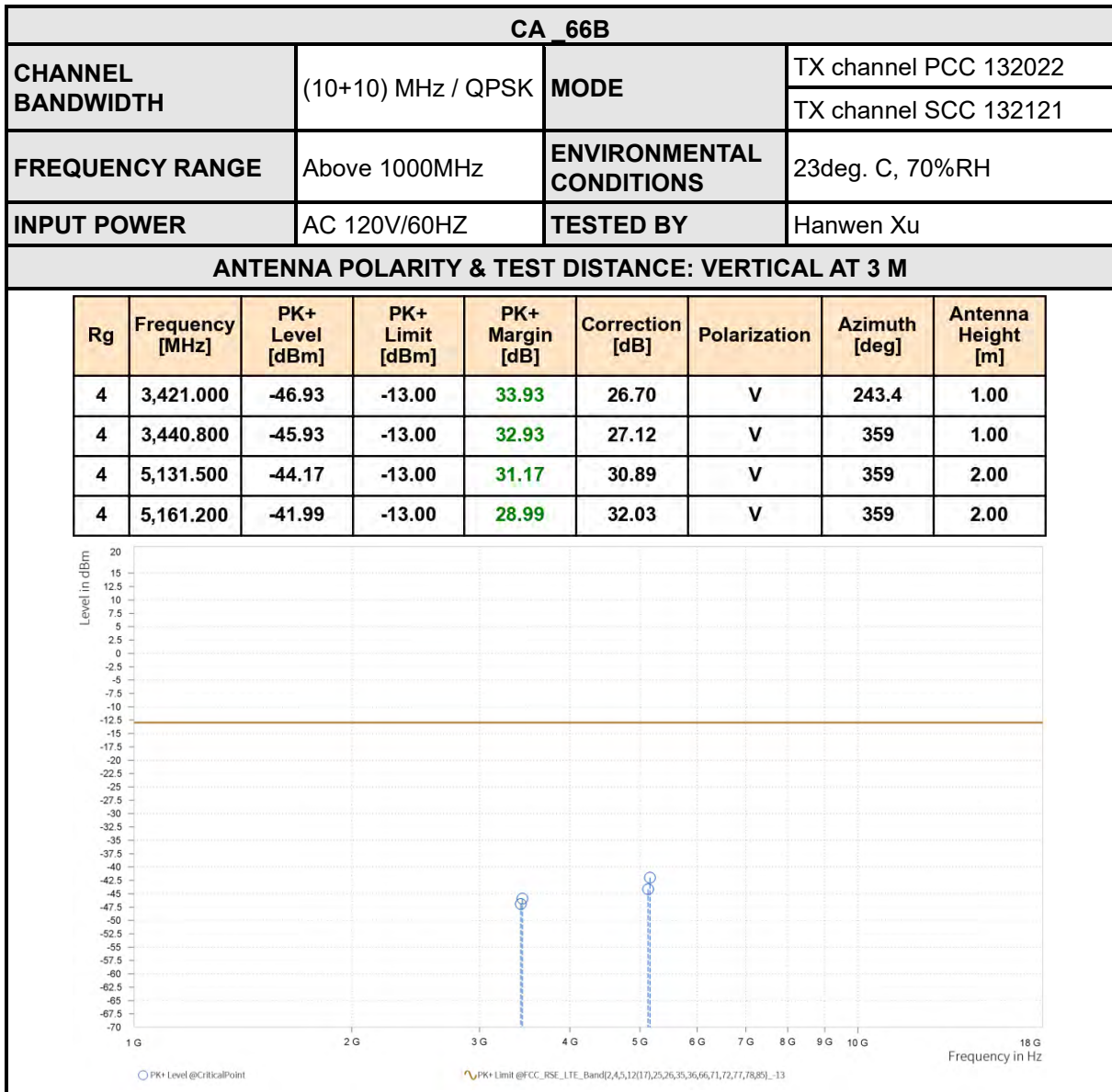
CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

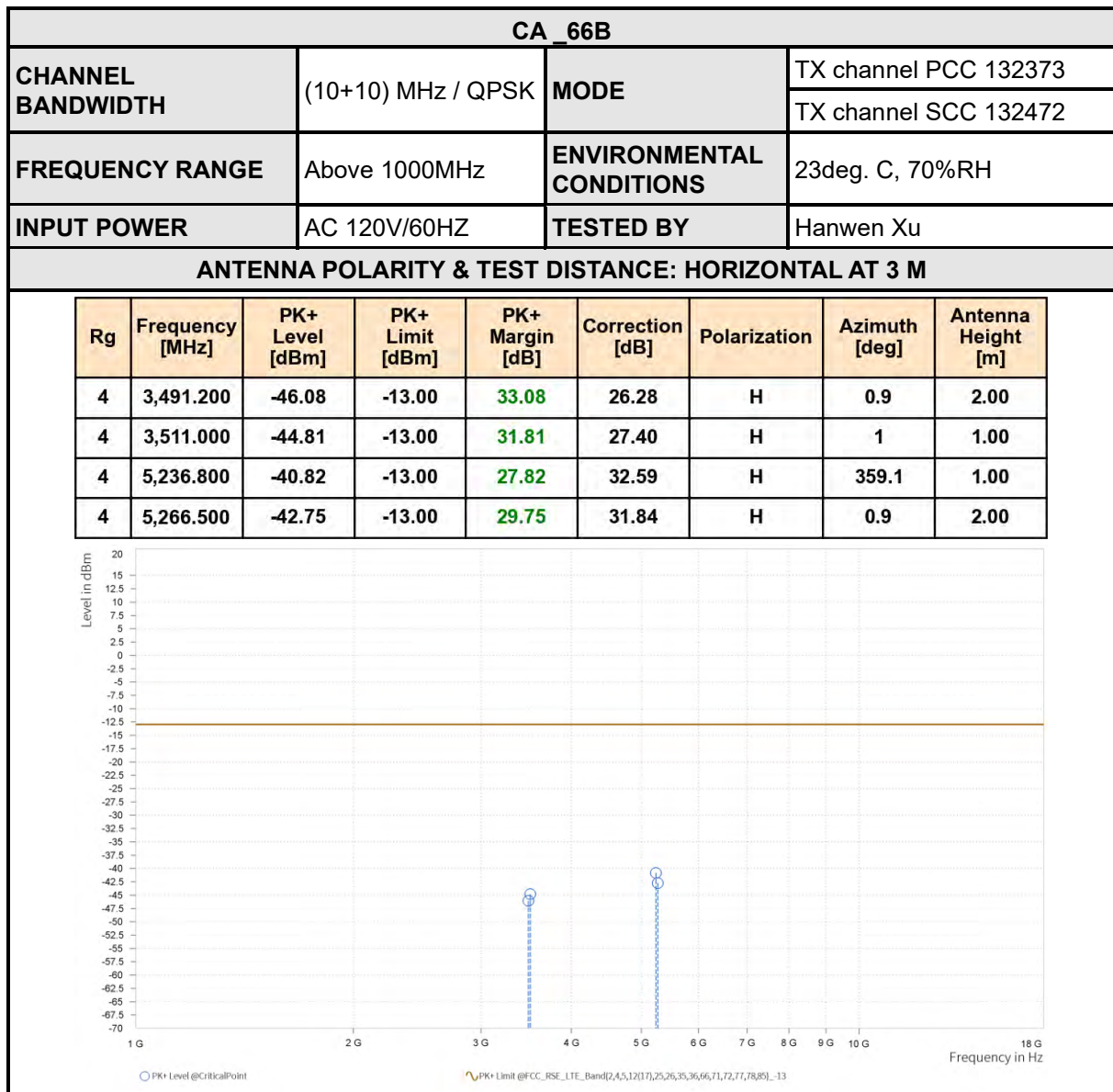
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

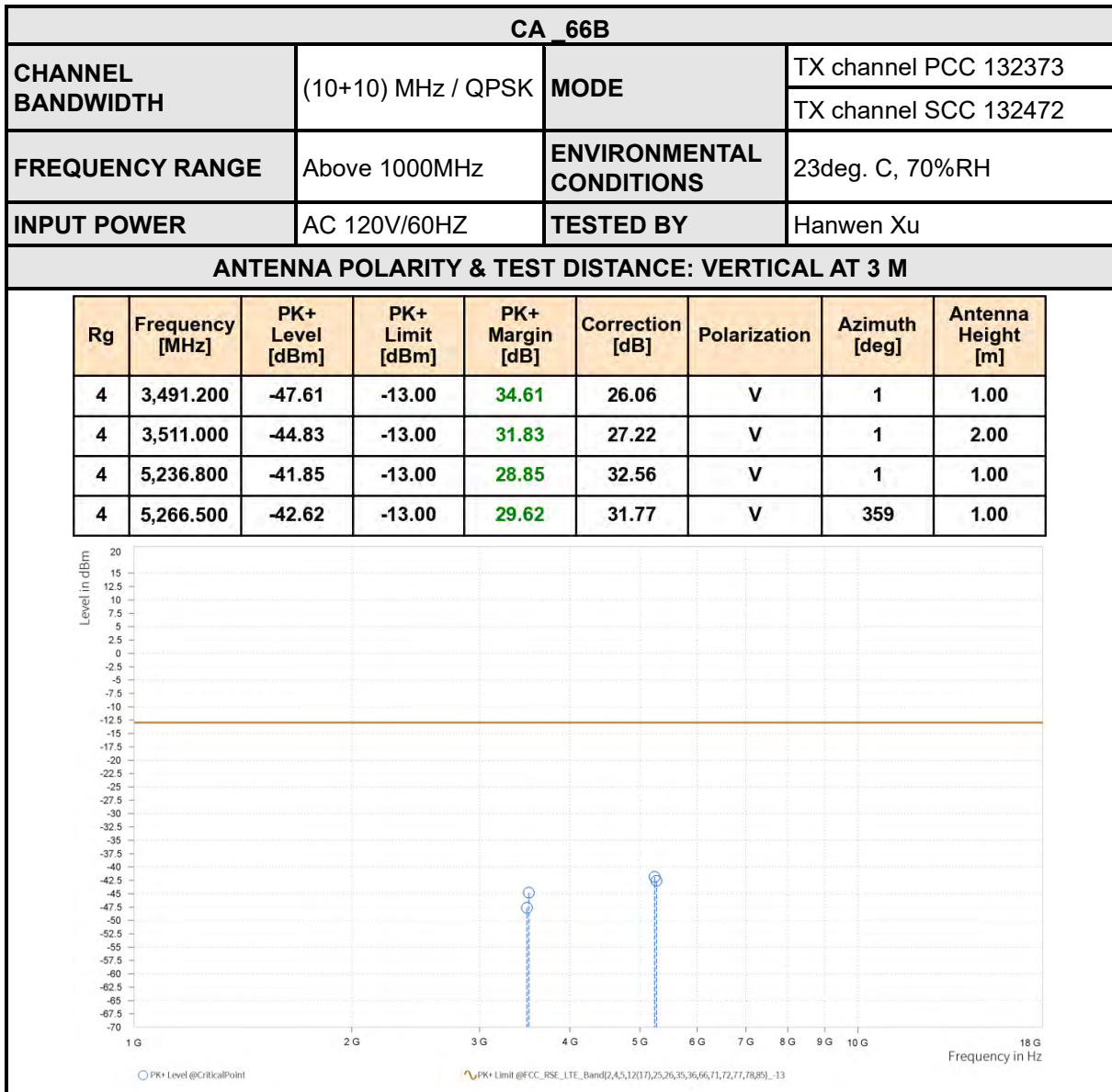
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,472.000	-46.12	-13.00	33.12	26.00	V	1	1.00
4	5,208.000	-42.79	-13.00	29.79	31.87	V	0.9	2.00

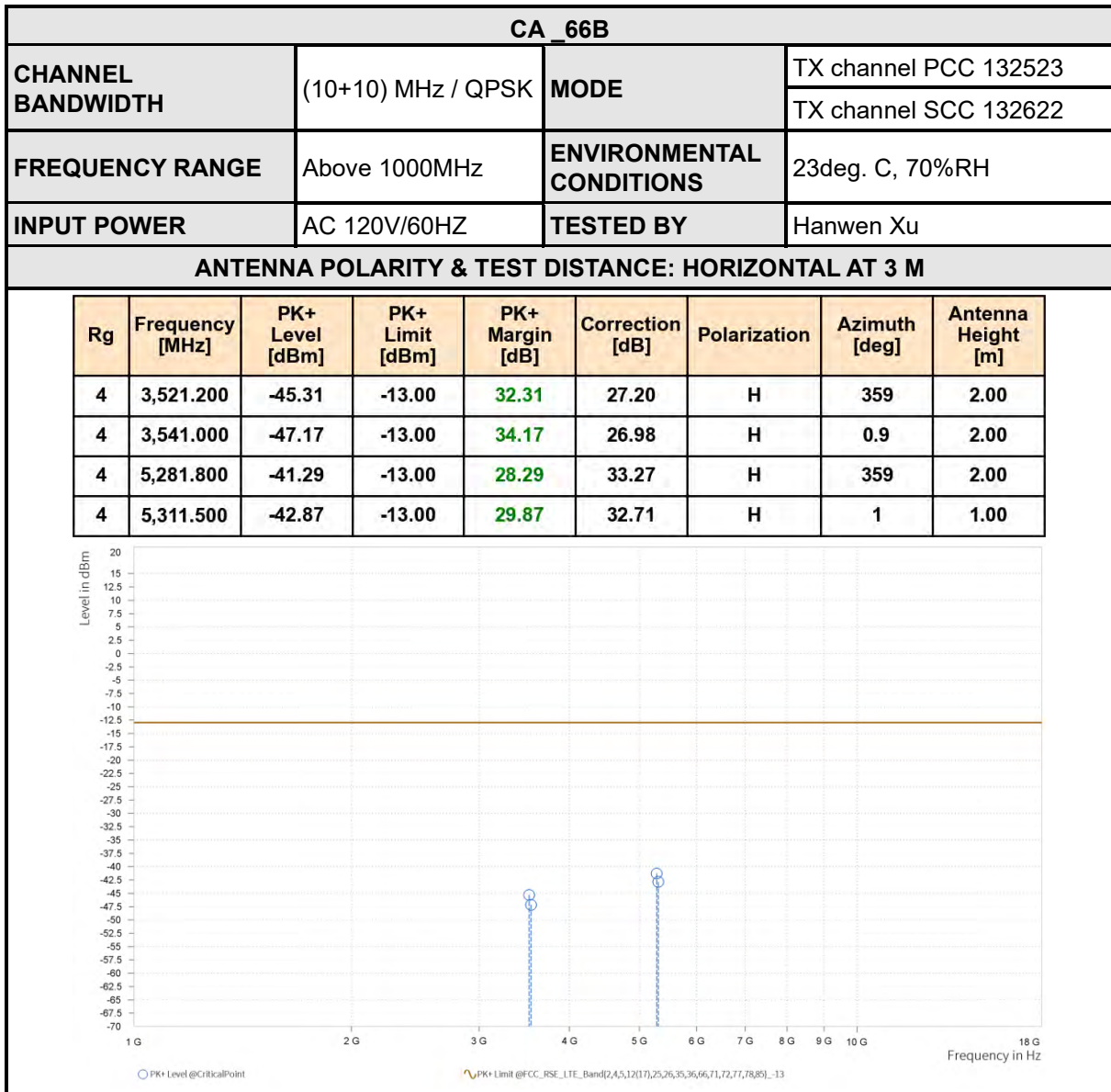


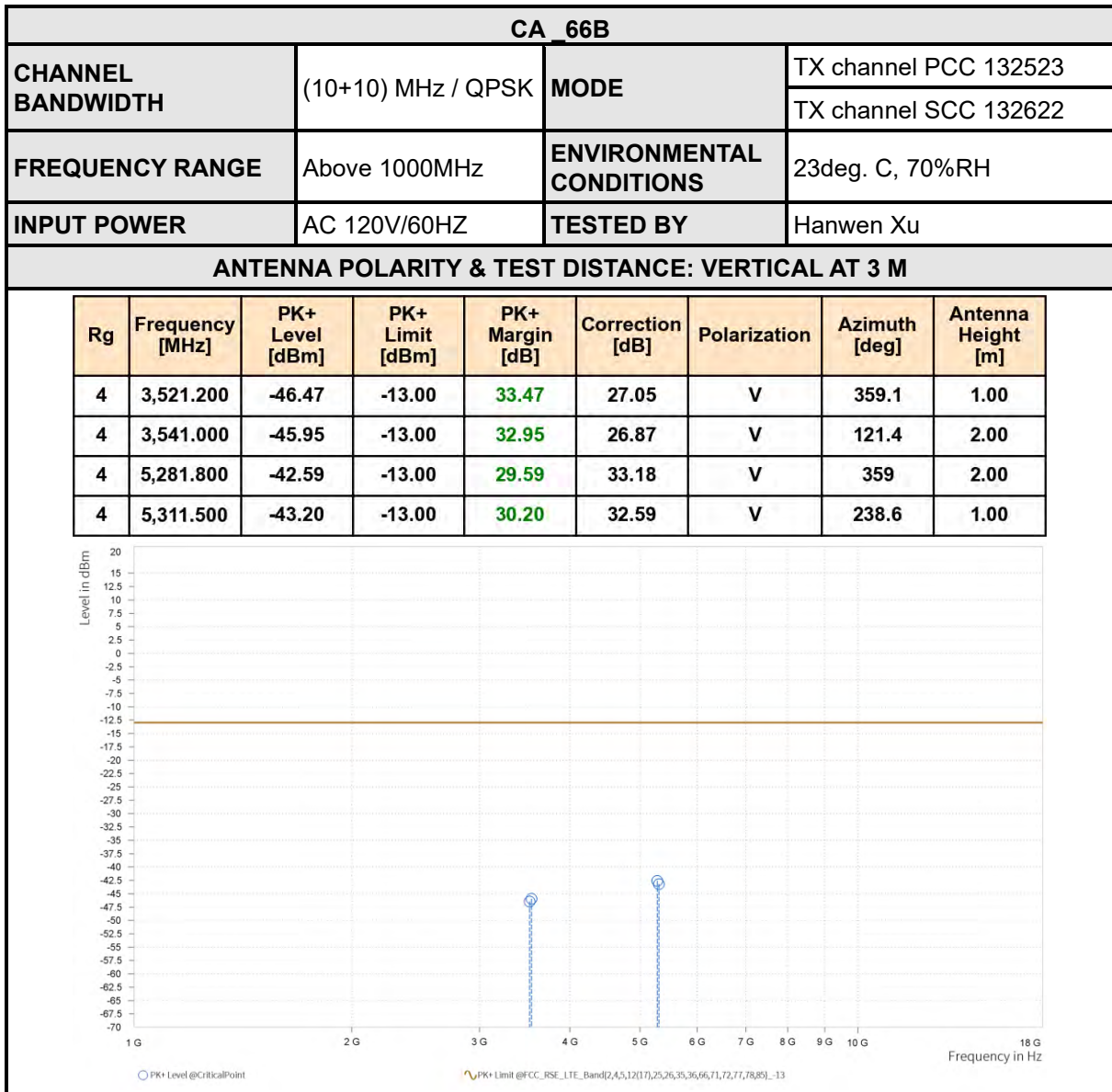


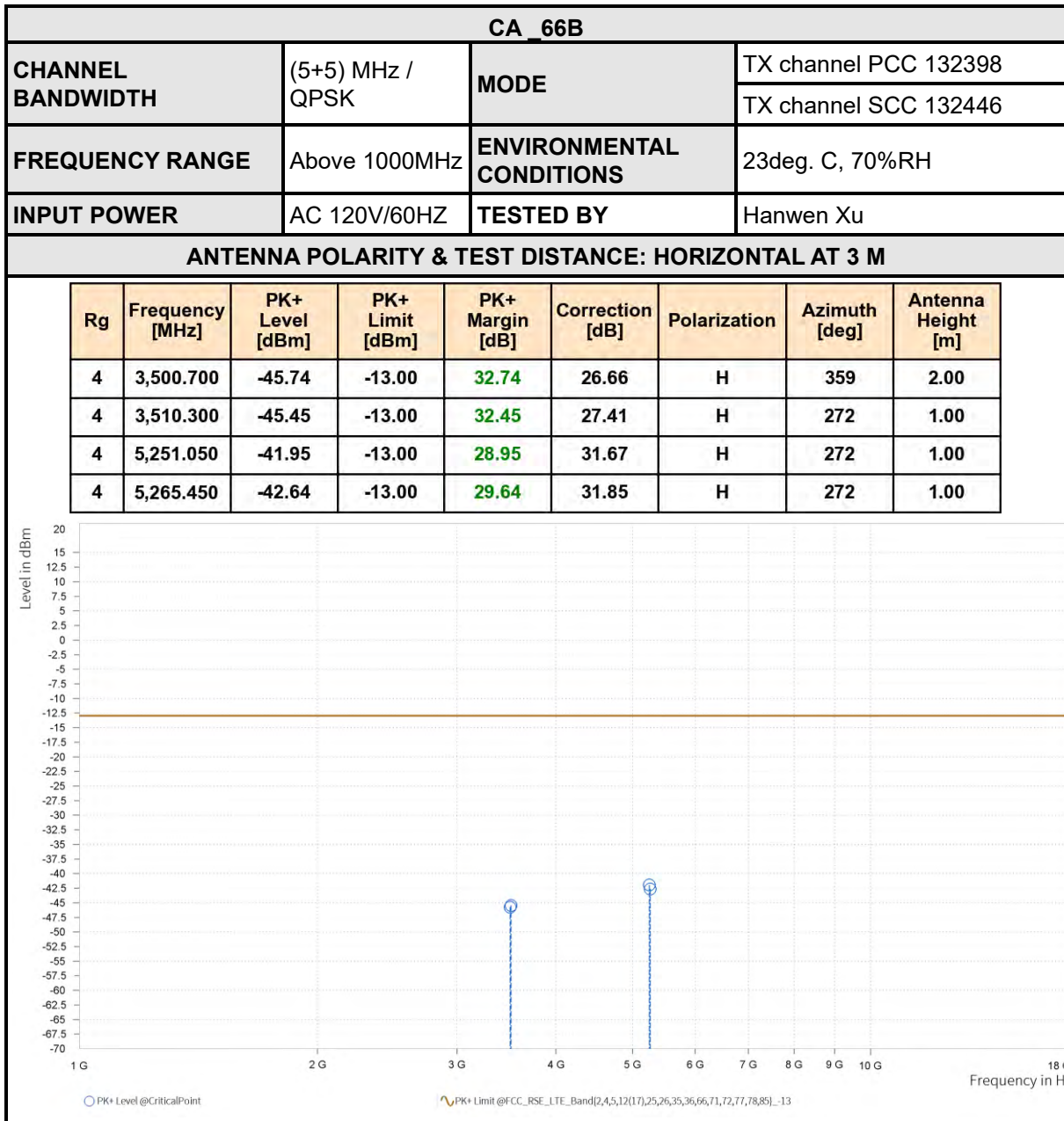


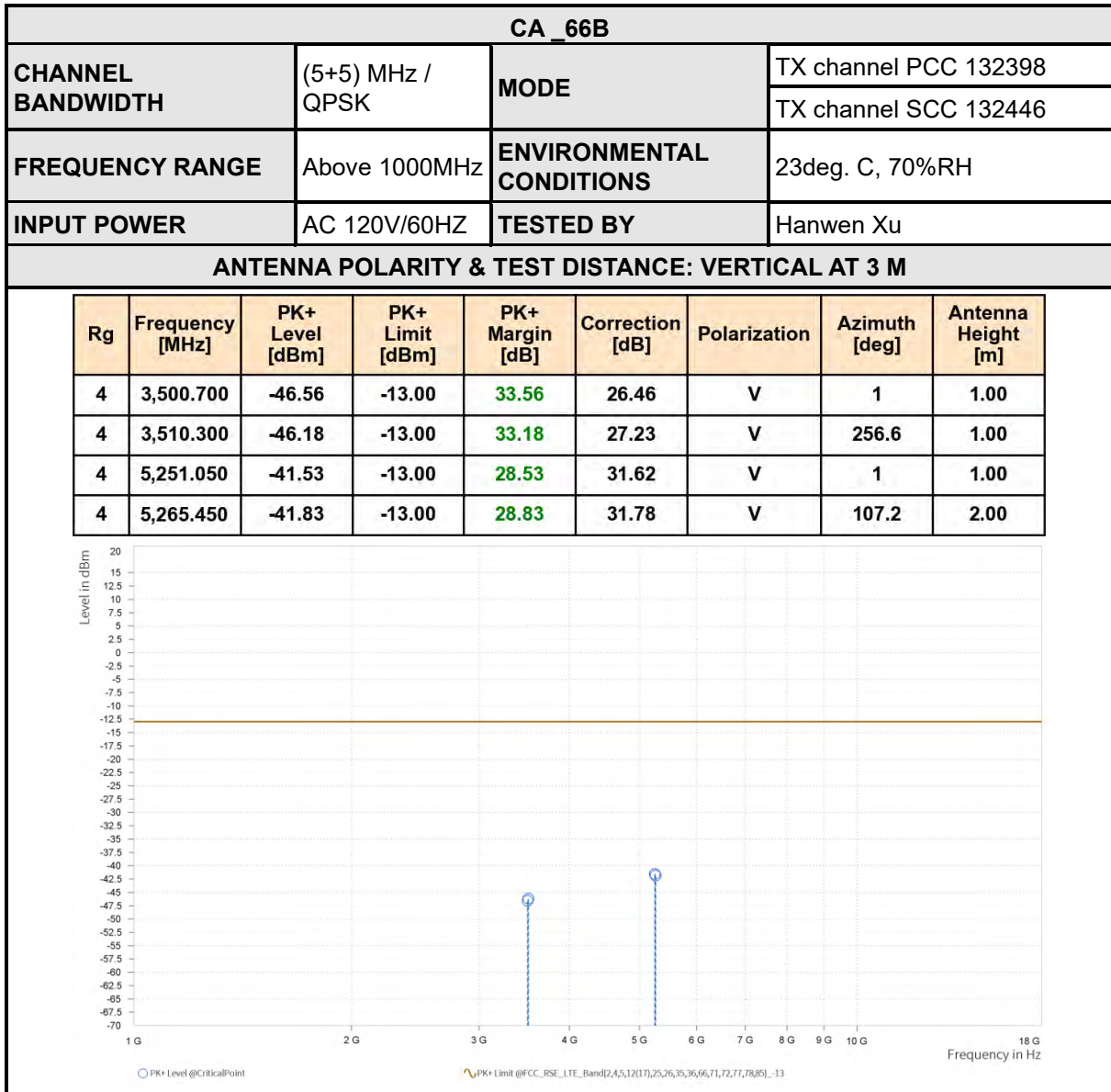


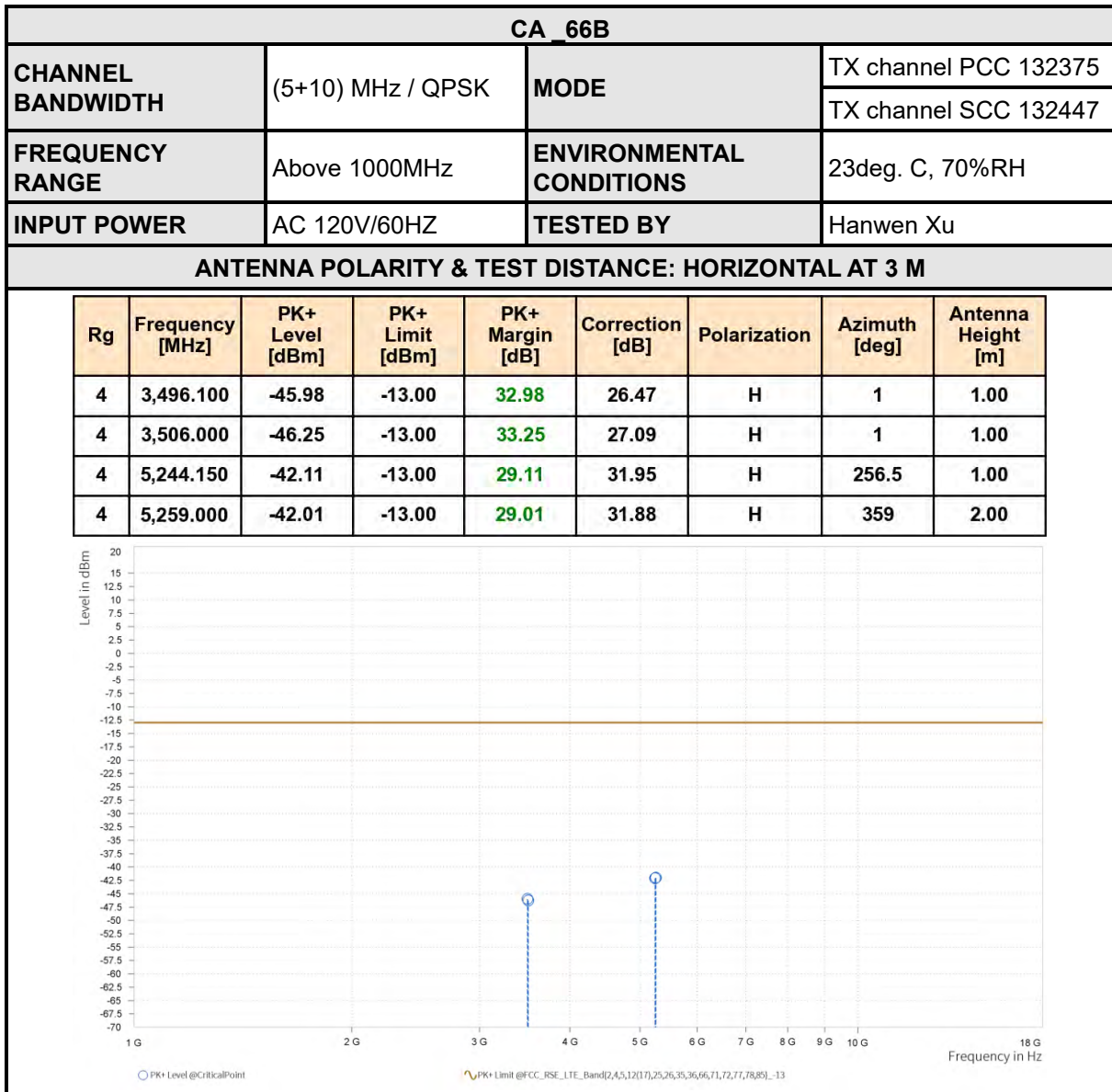


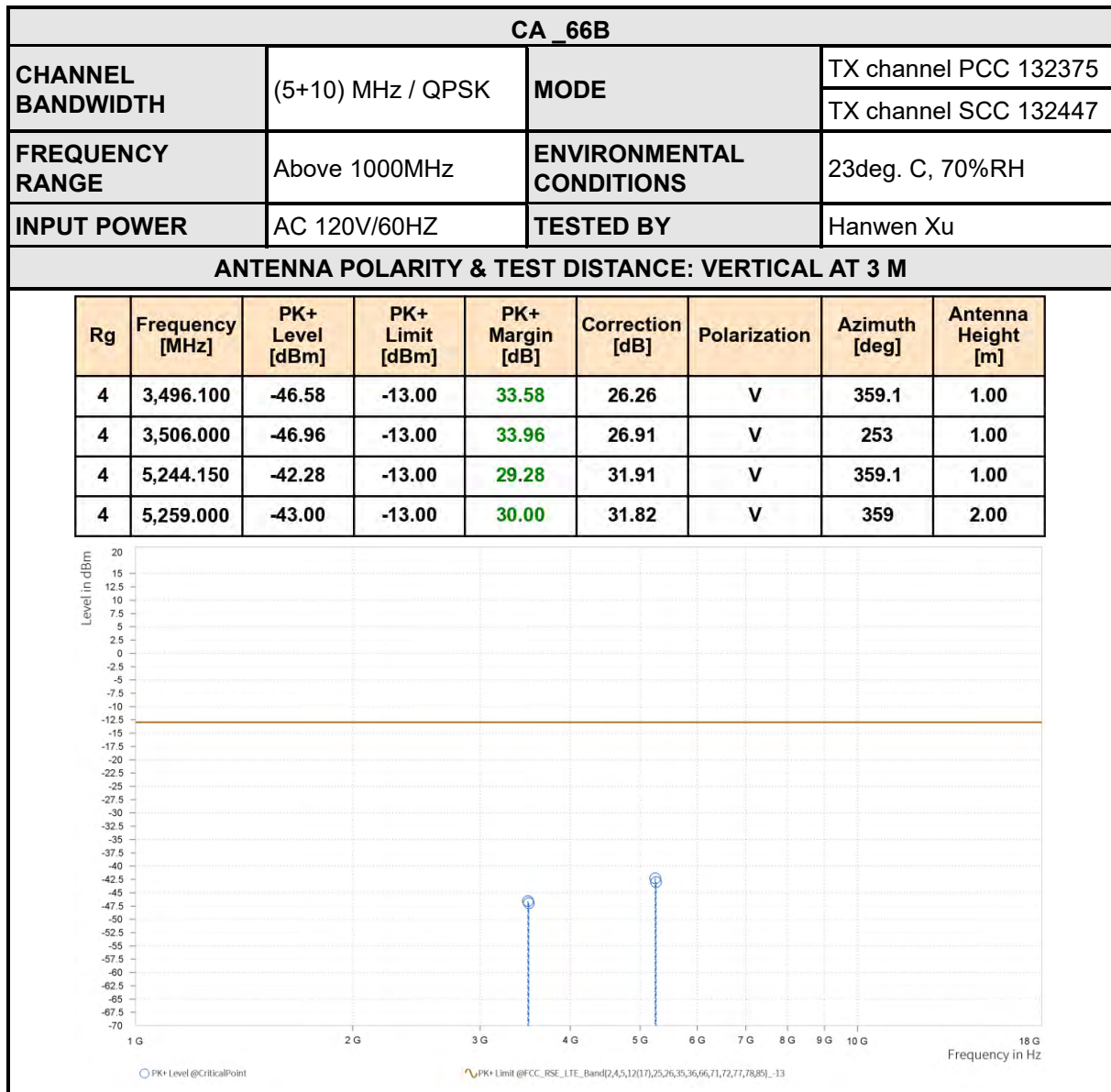


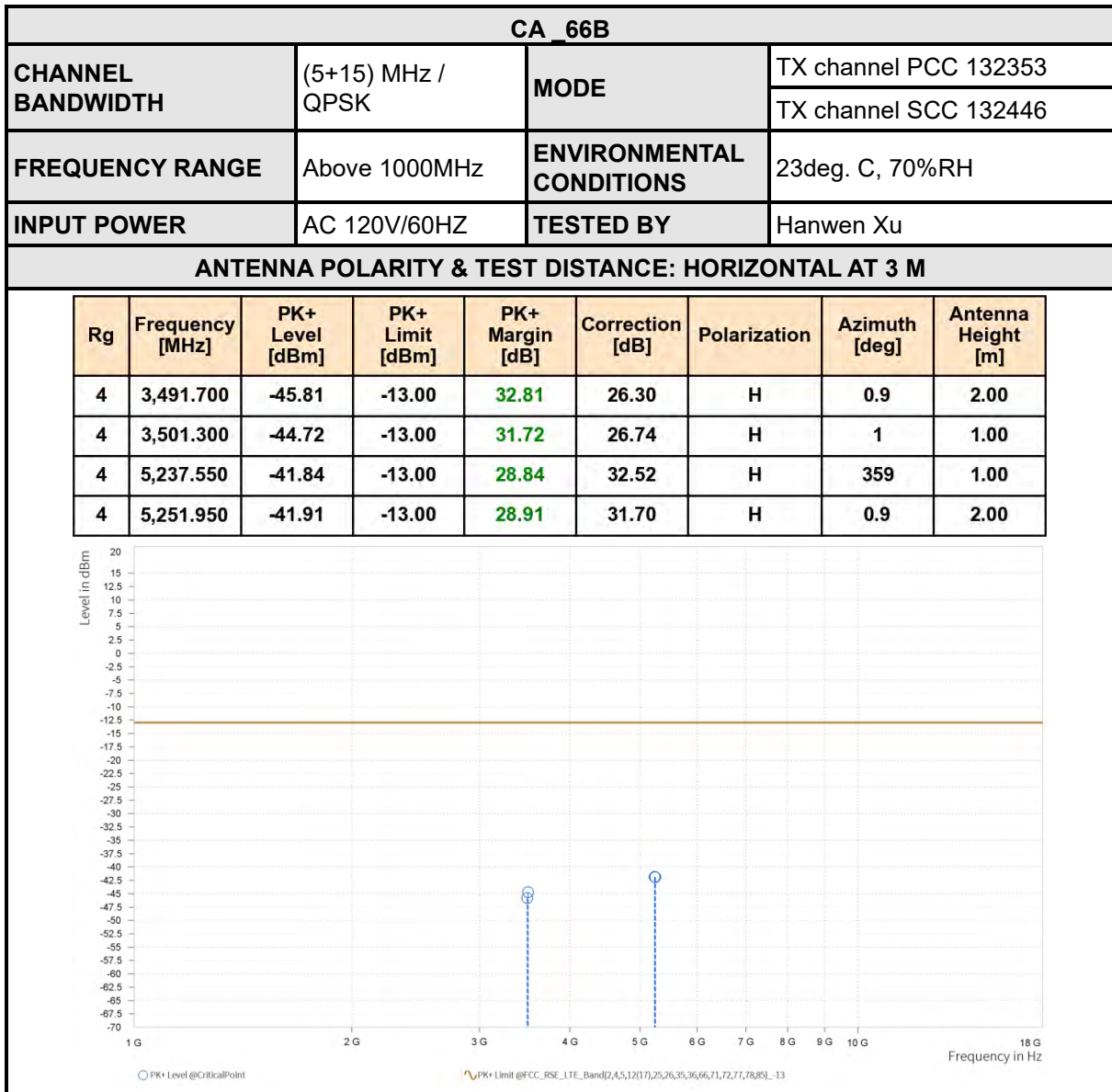


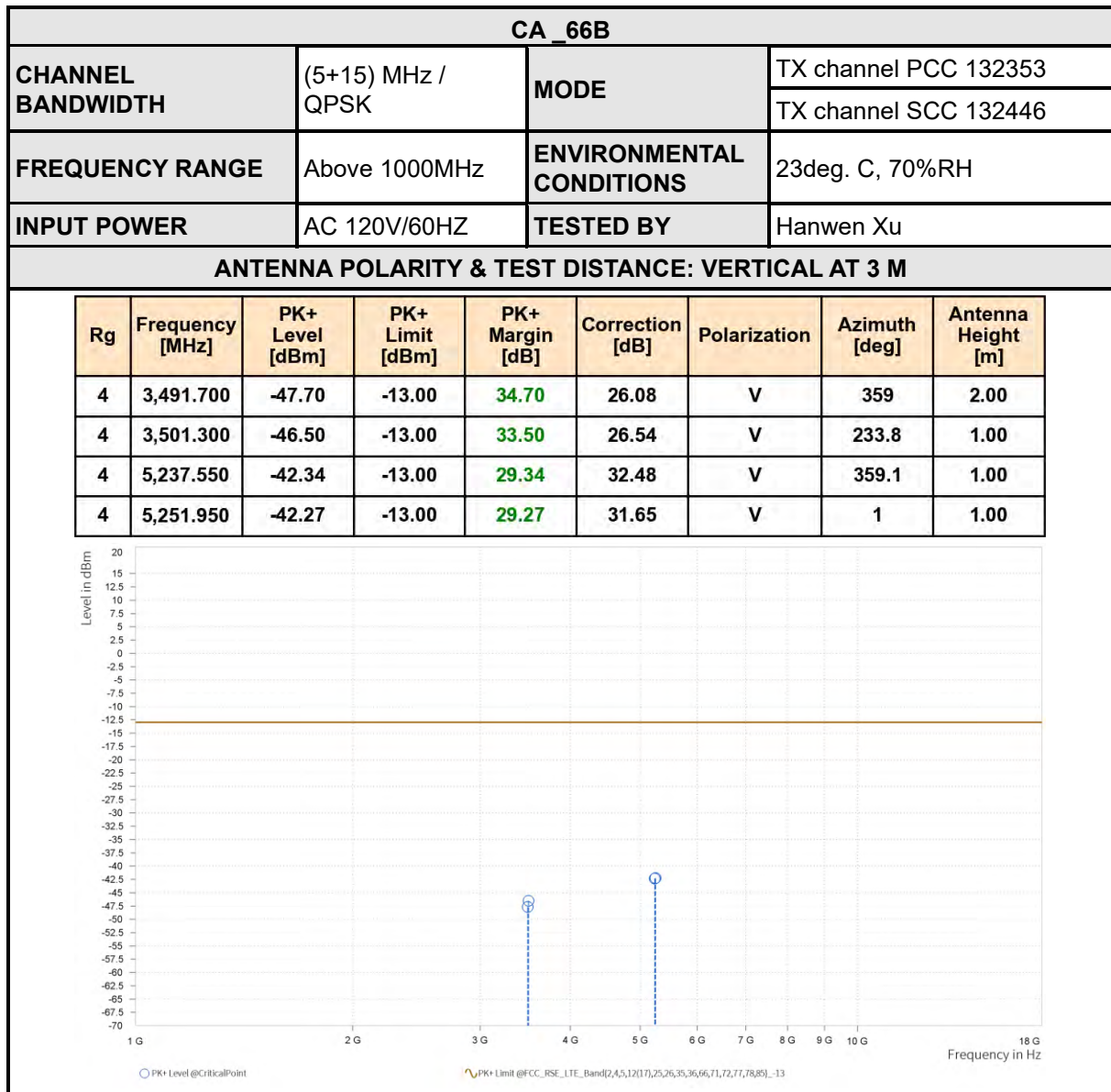


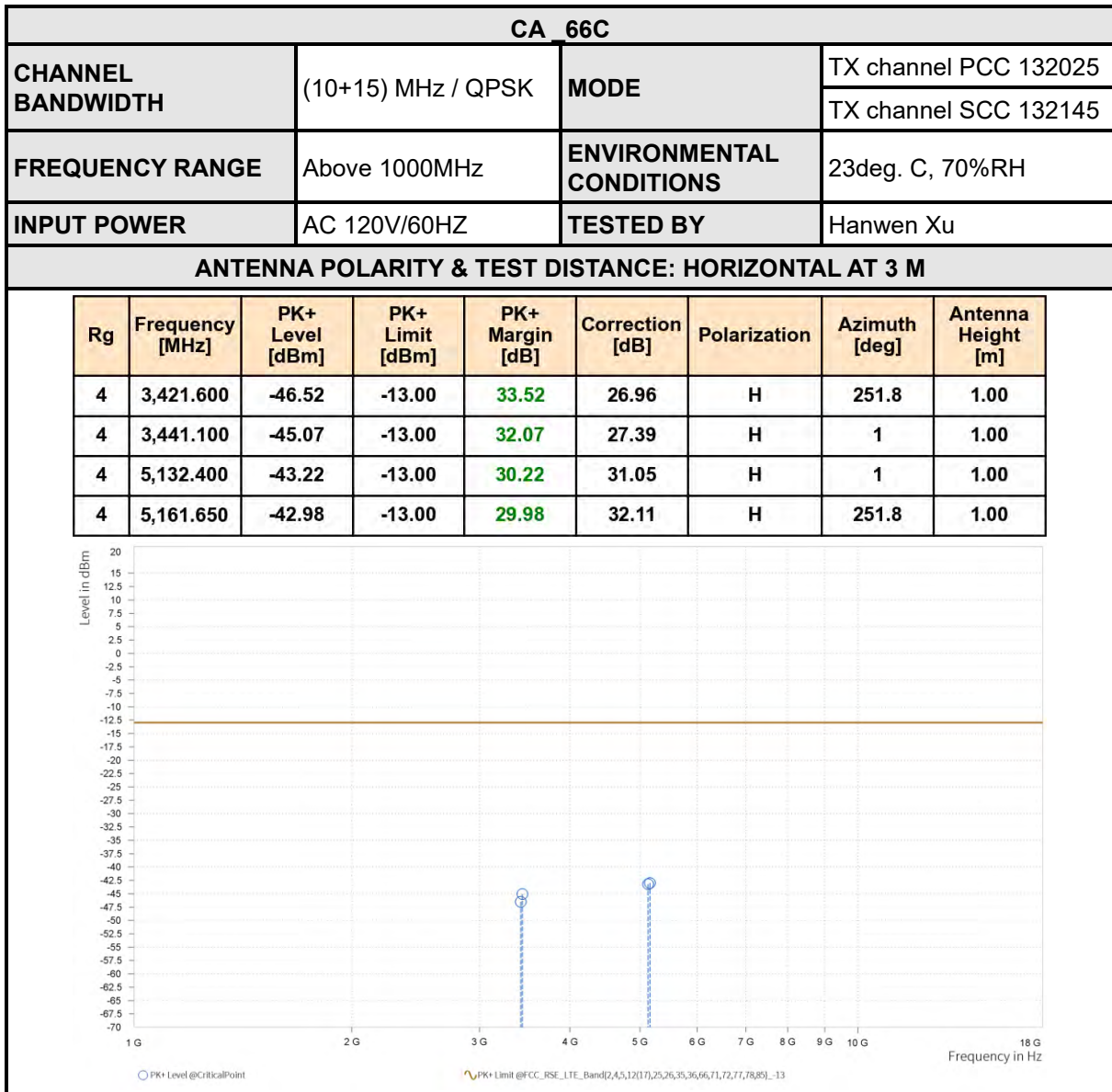


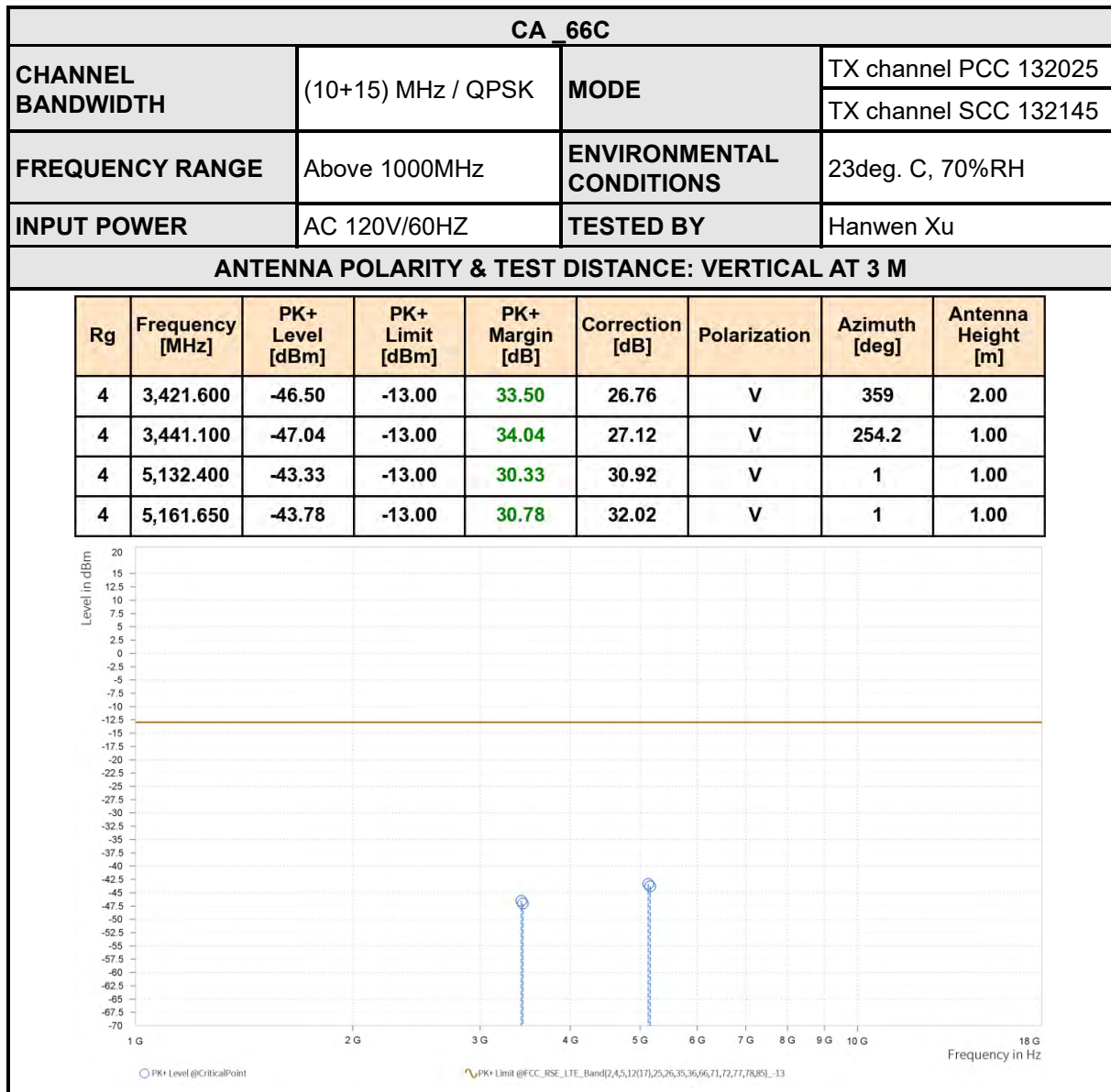


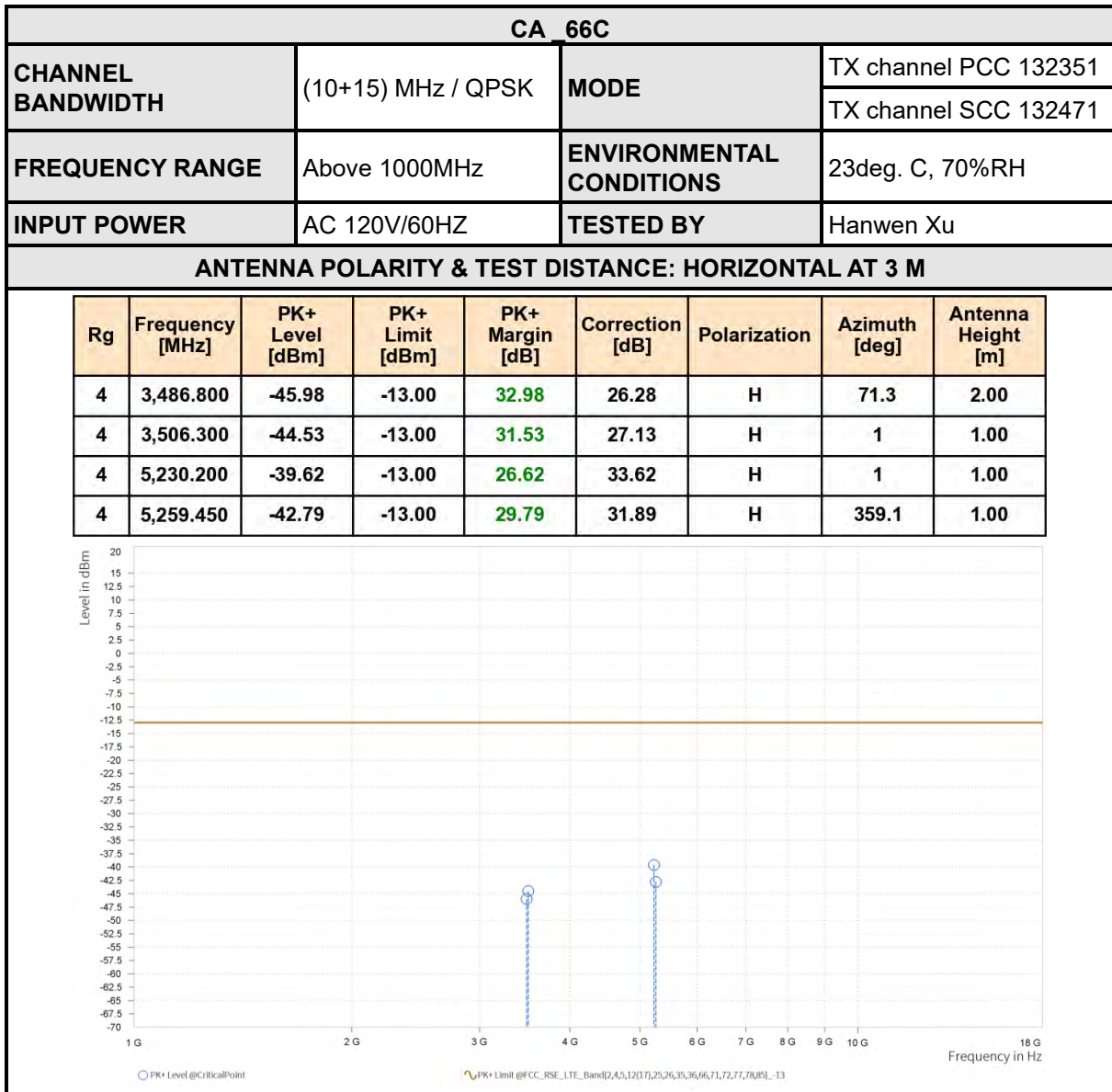


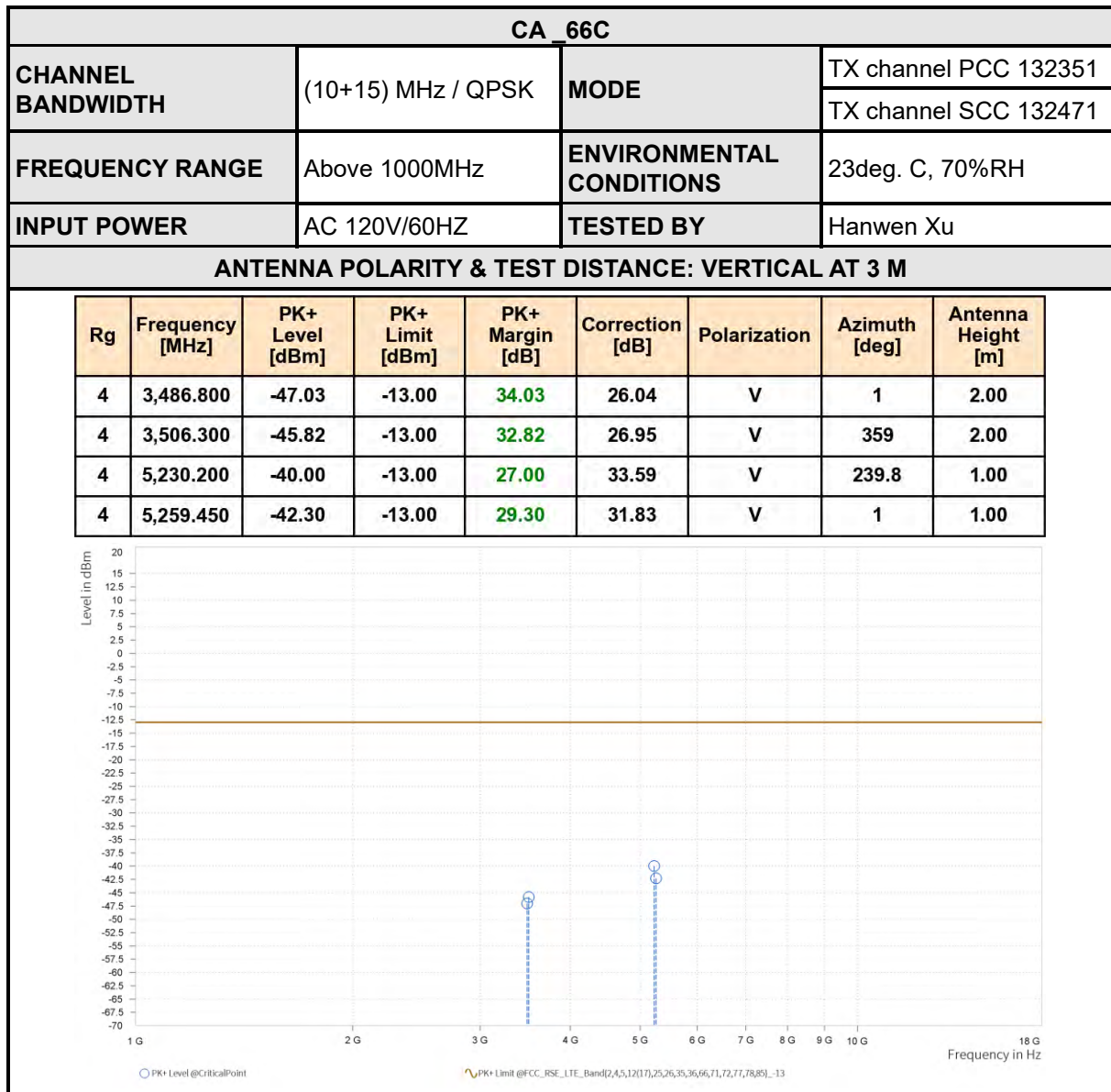


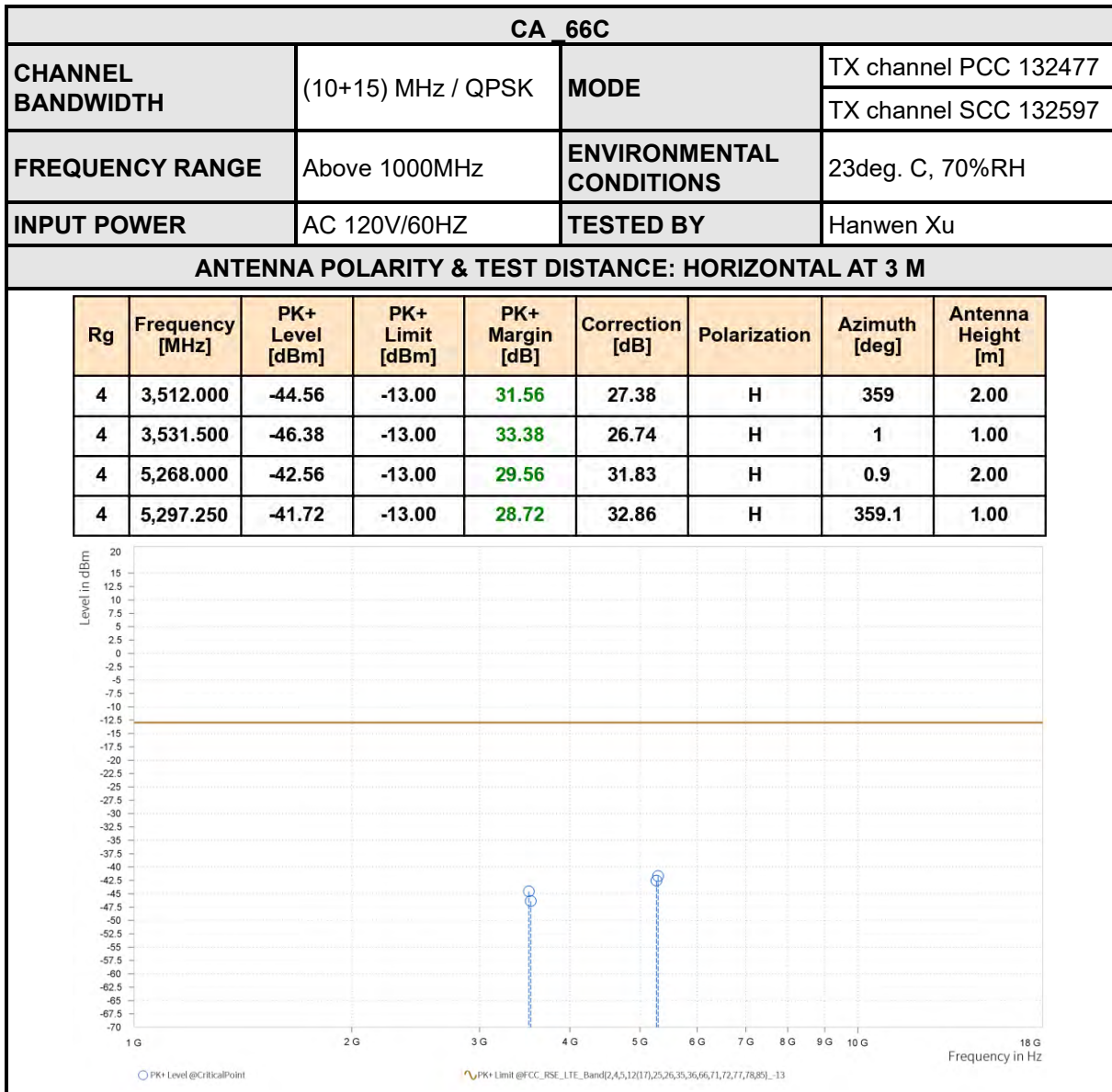


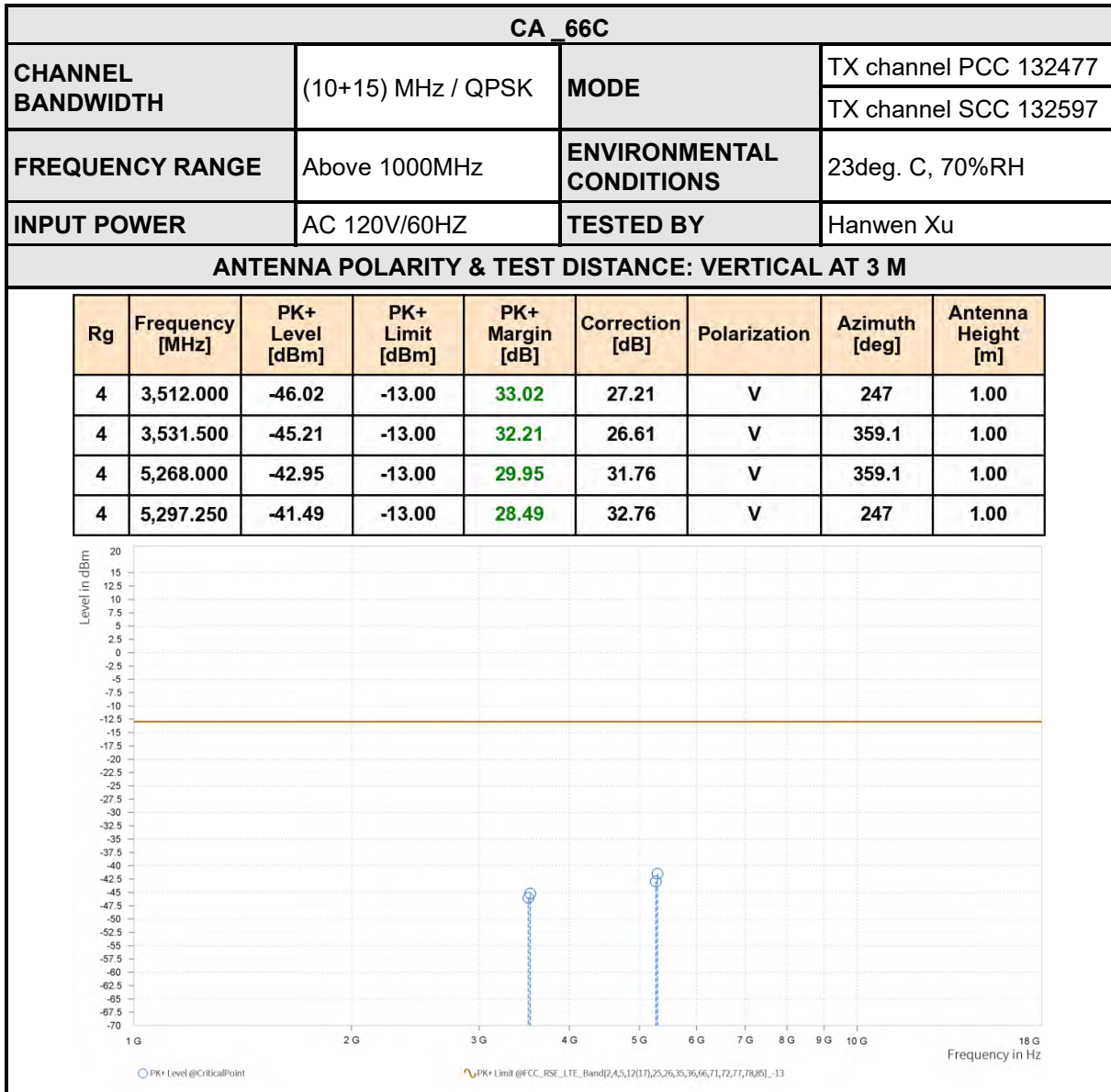


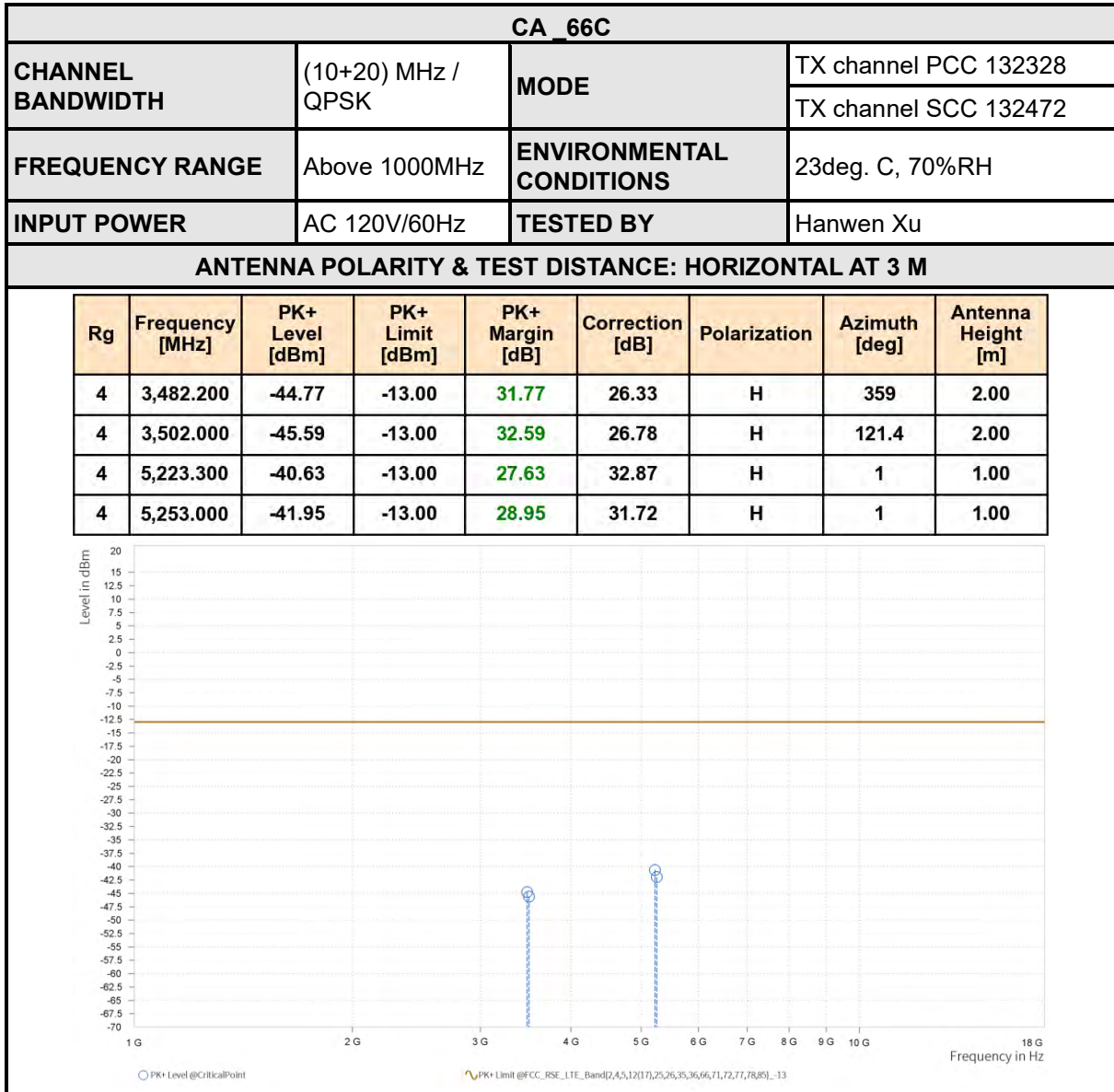


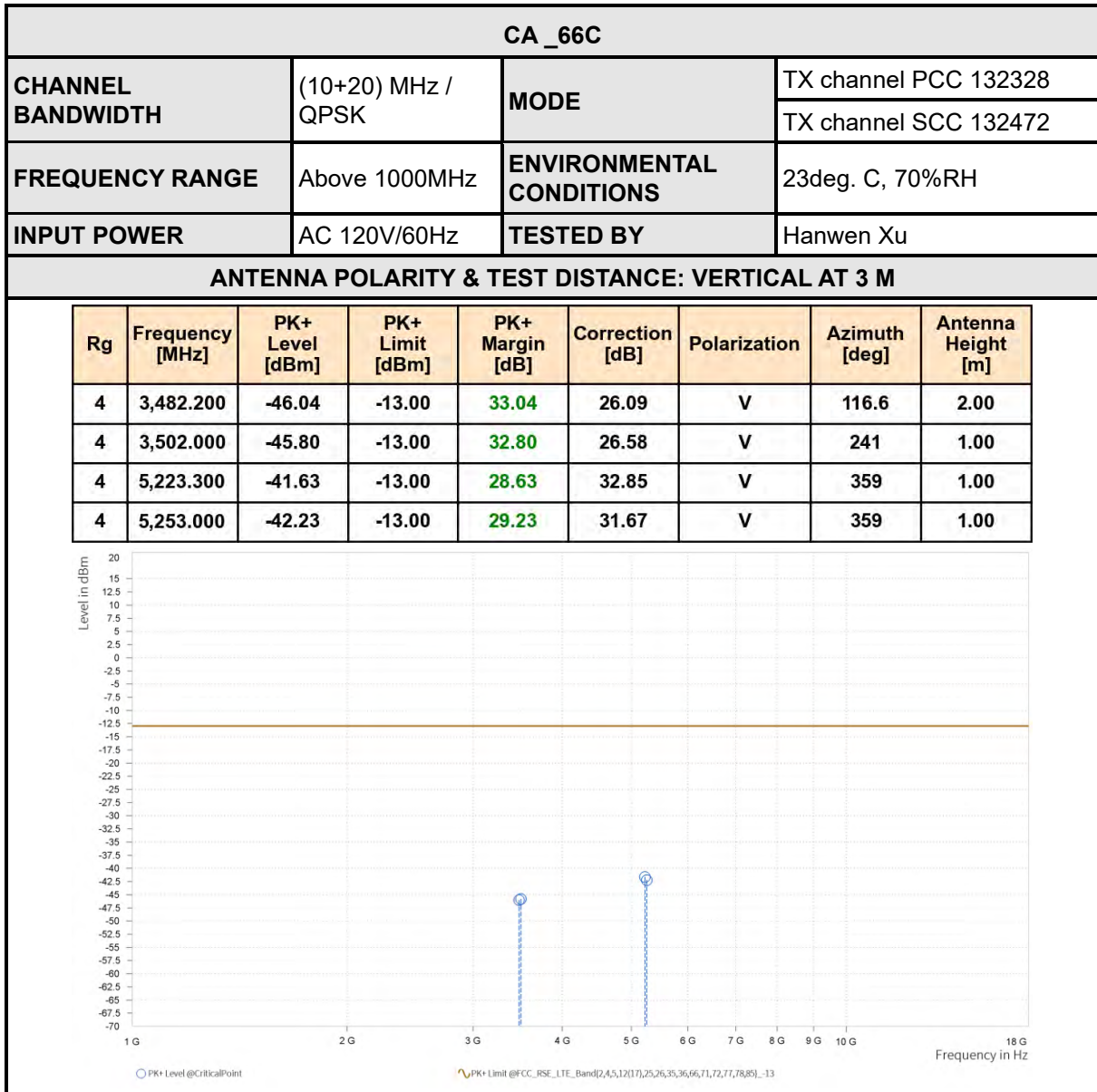


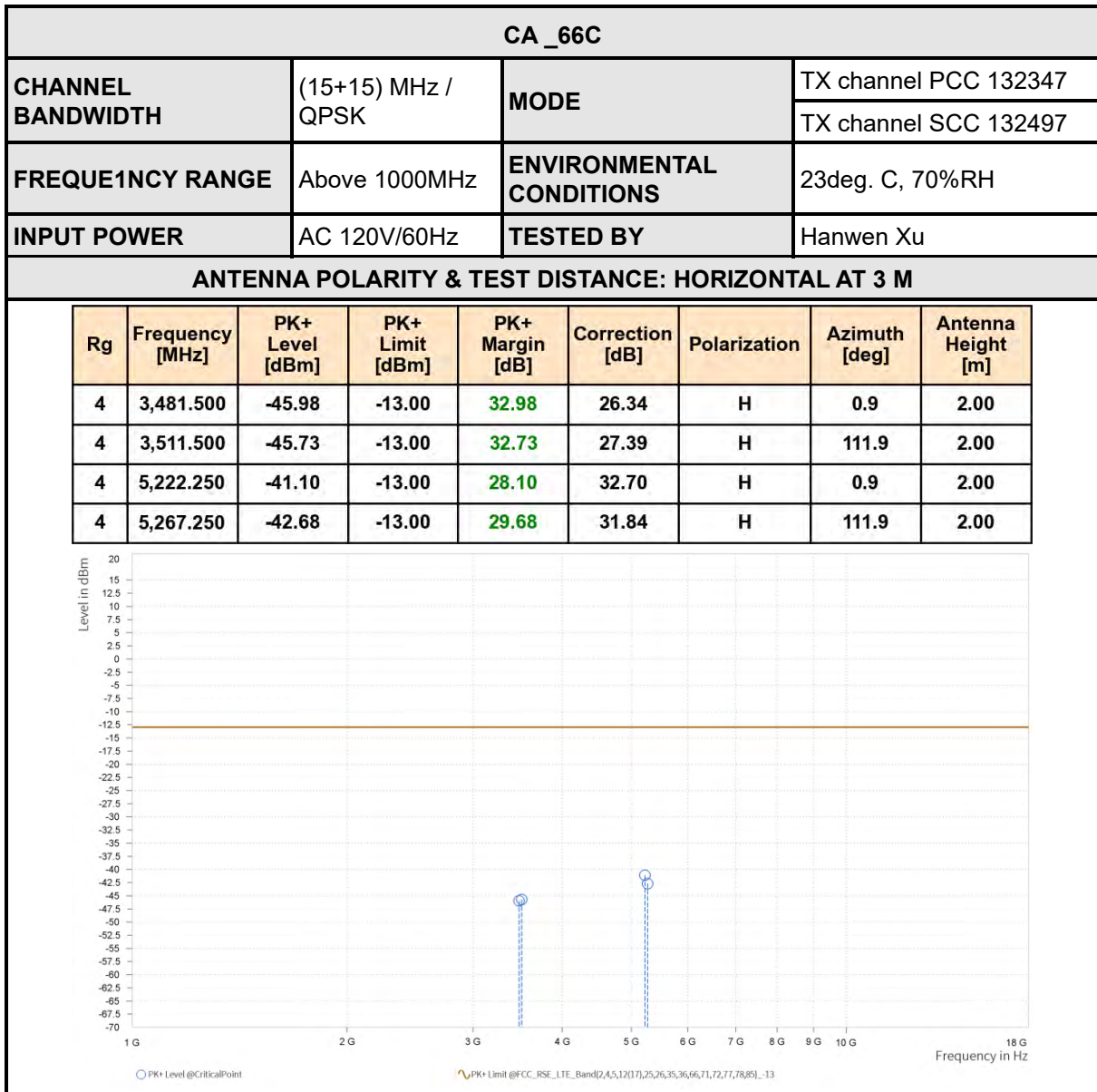


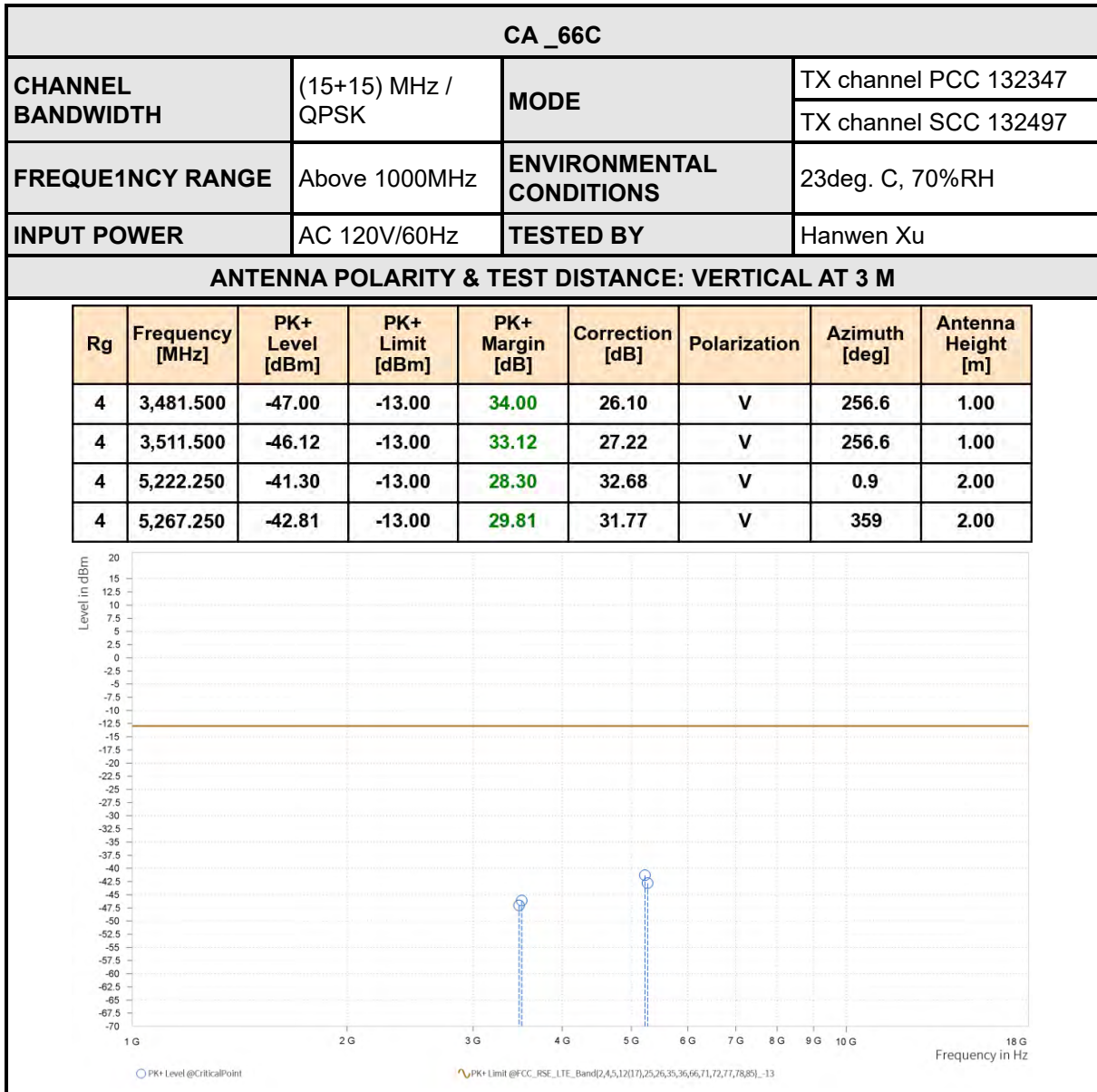


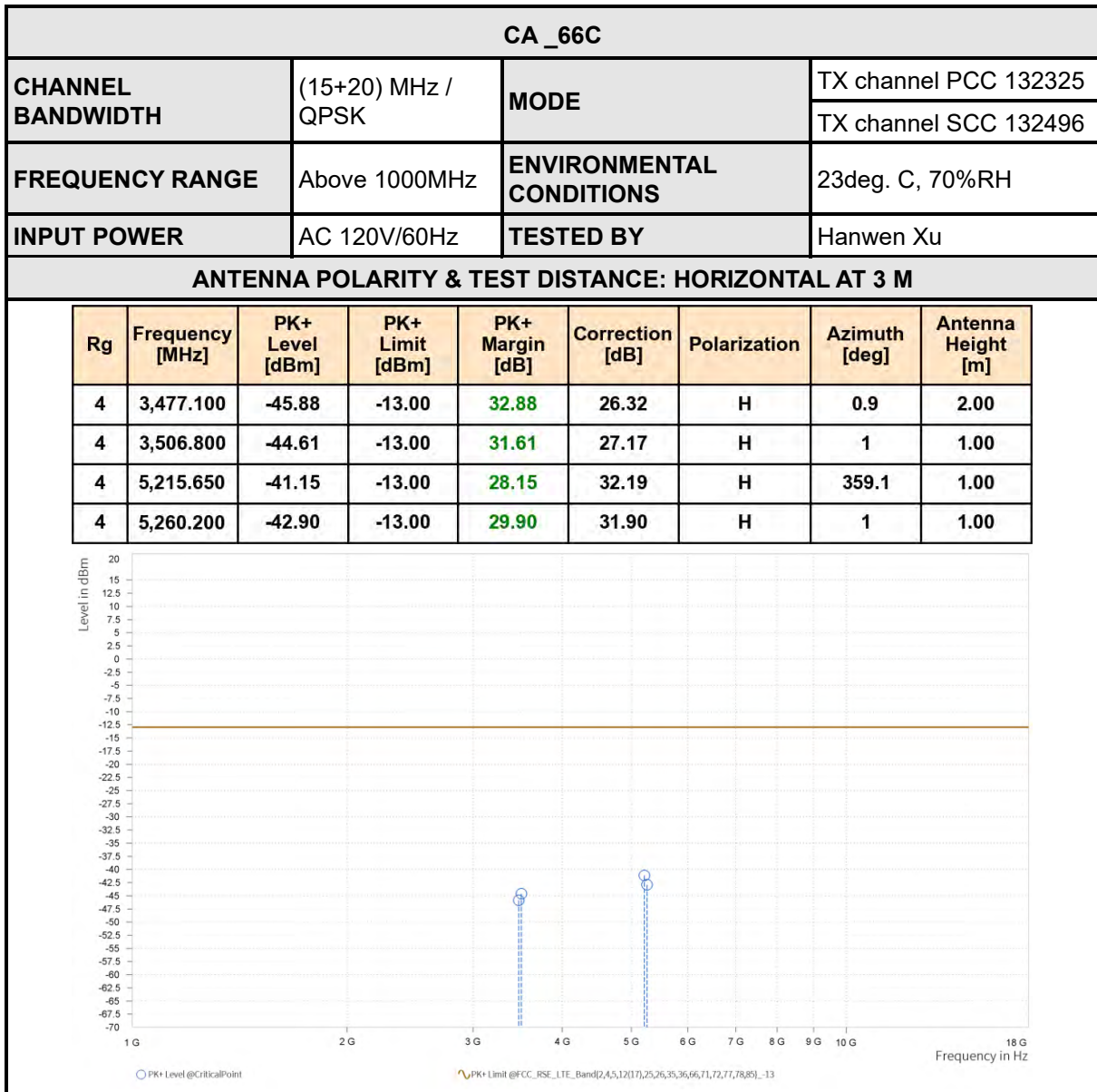


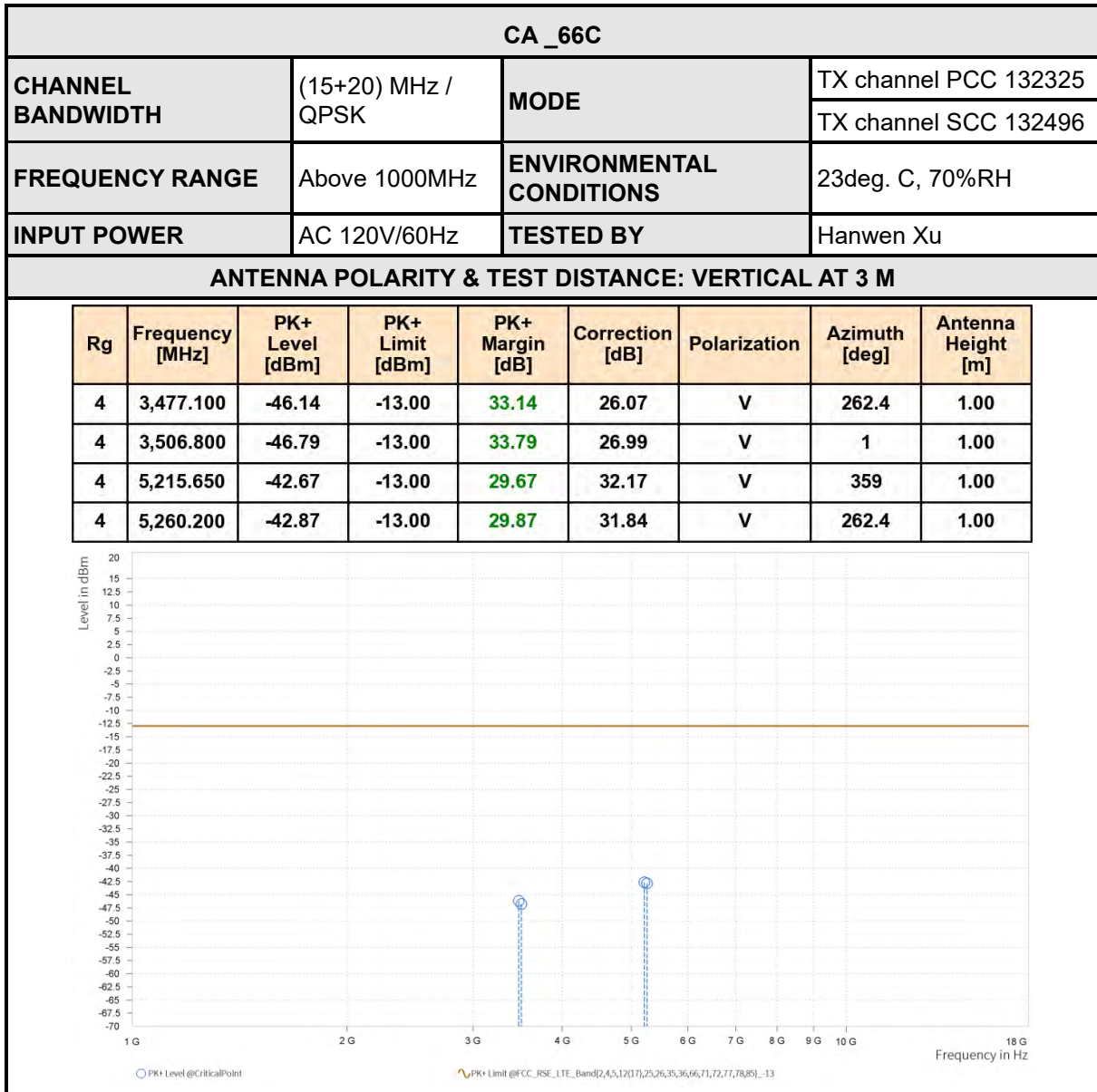


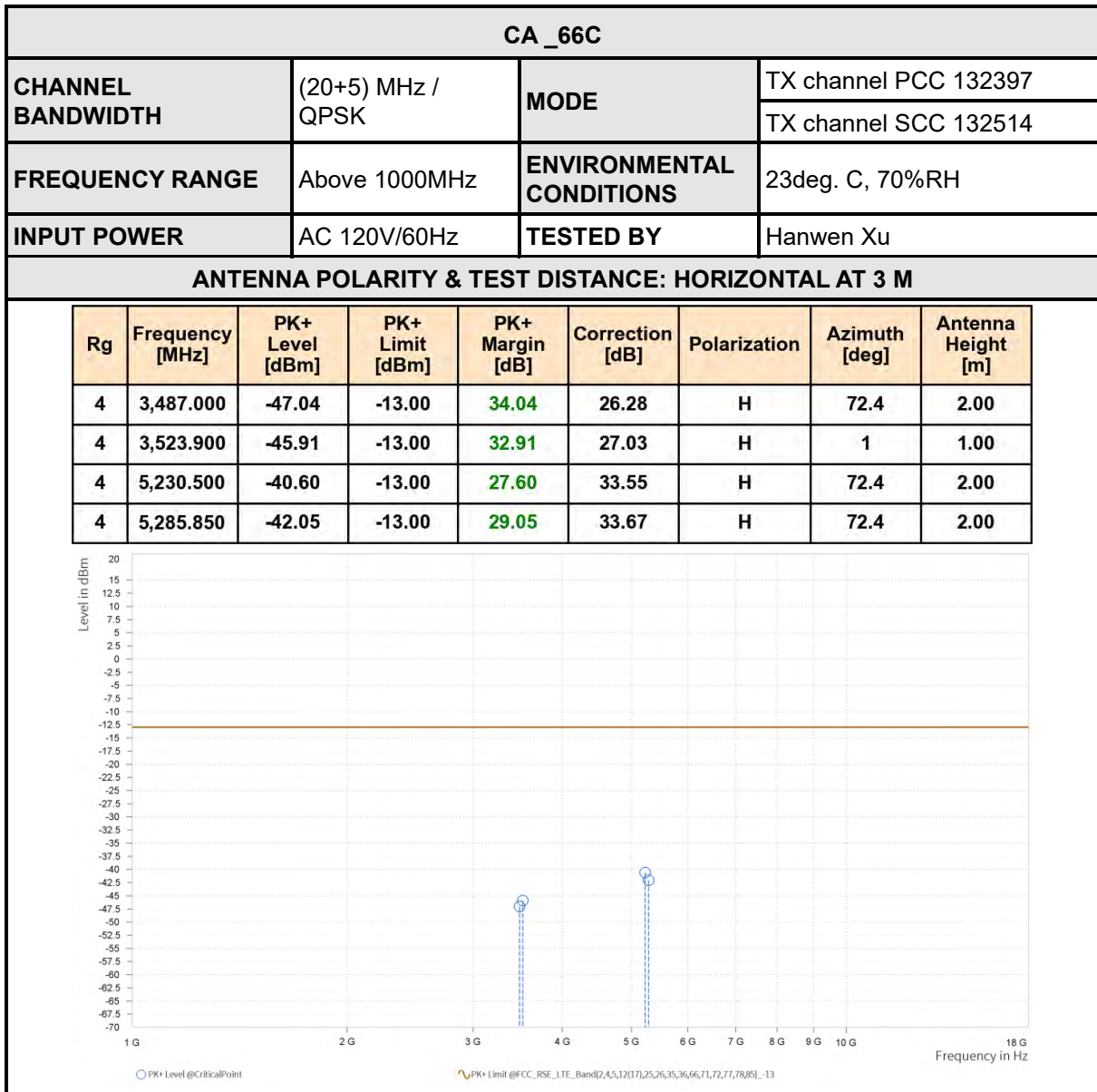


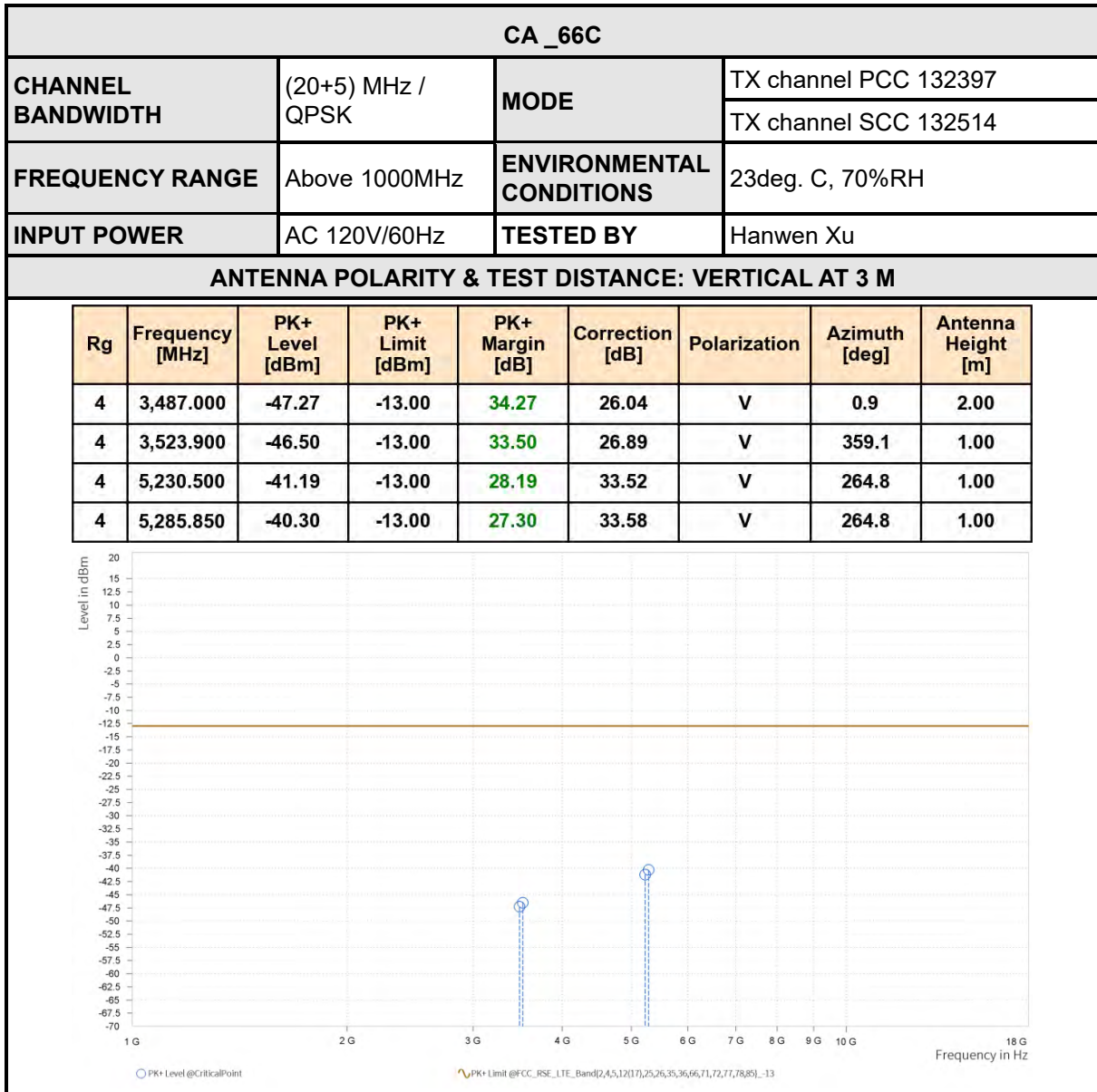


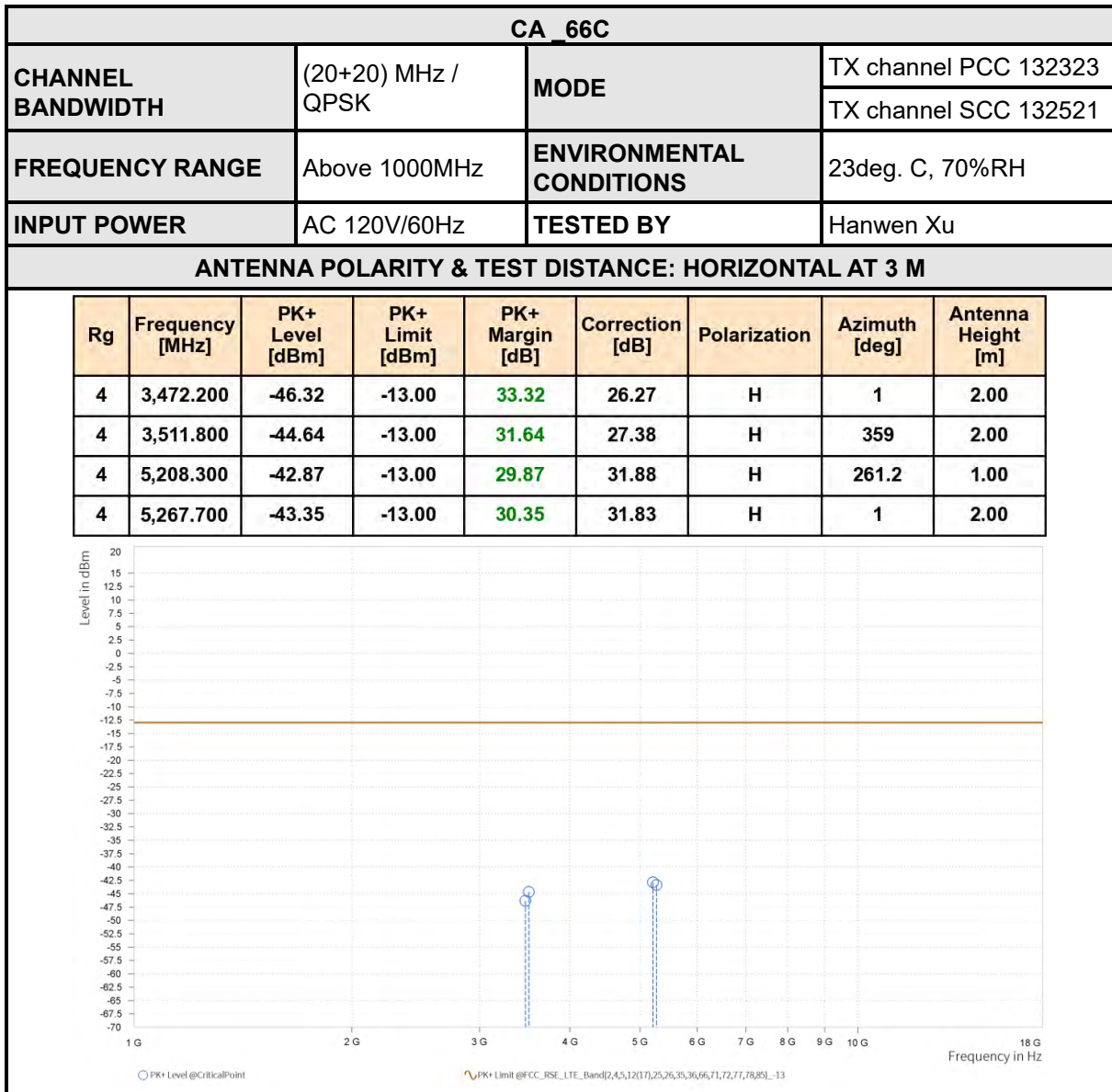


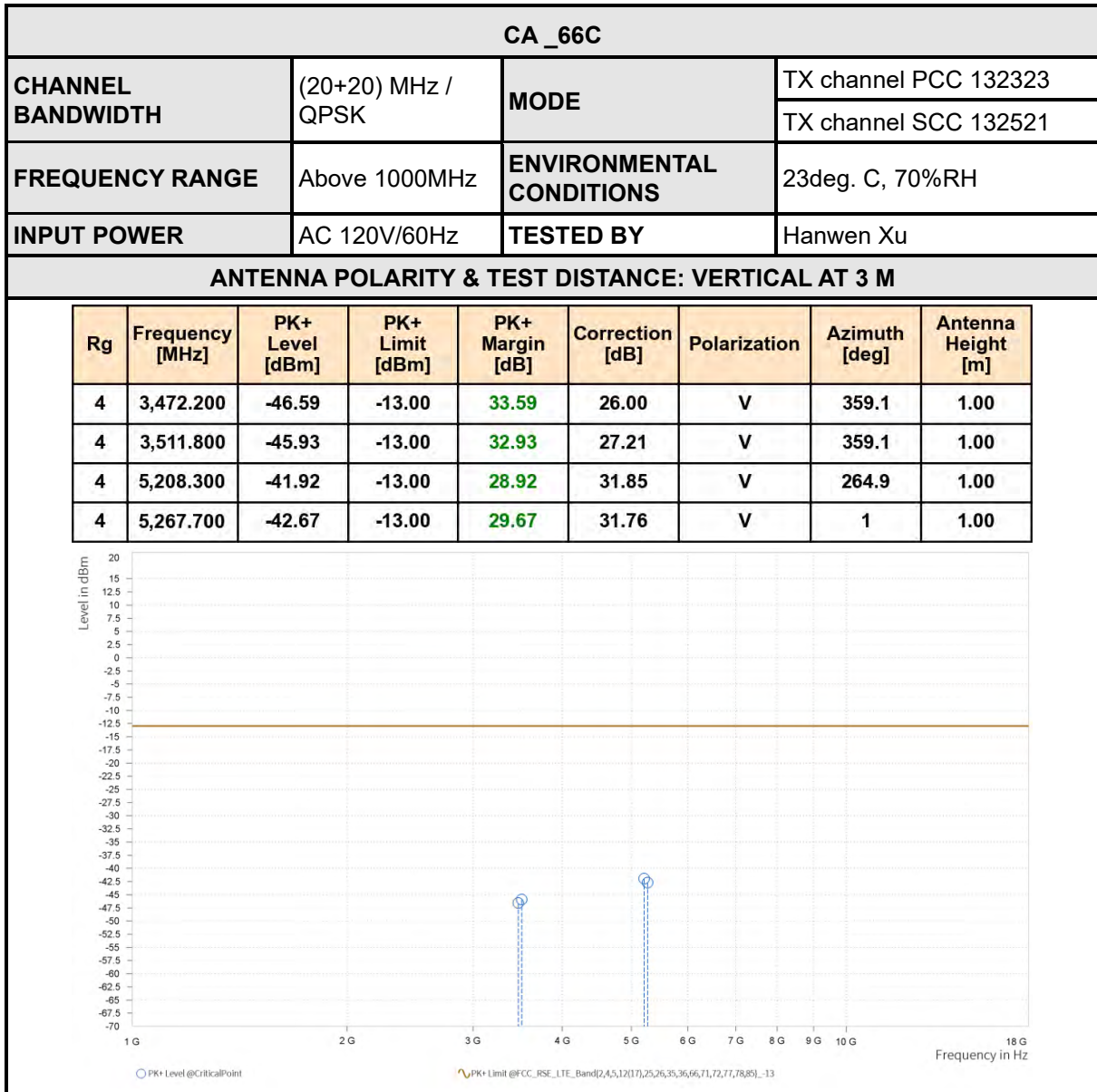


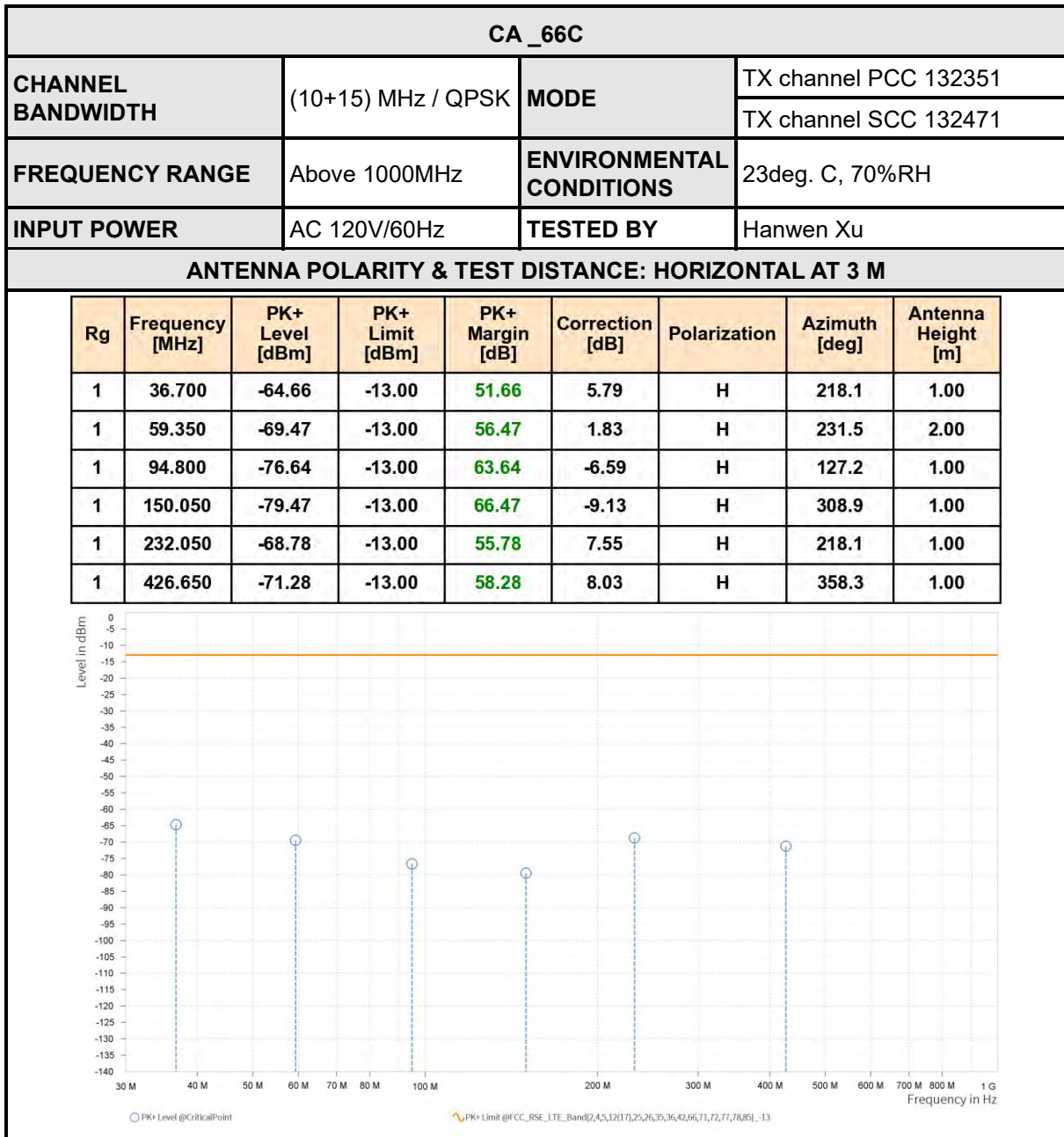


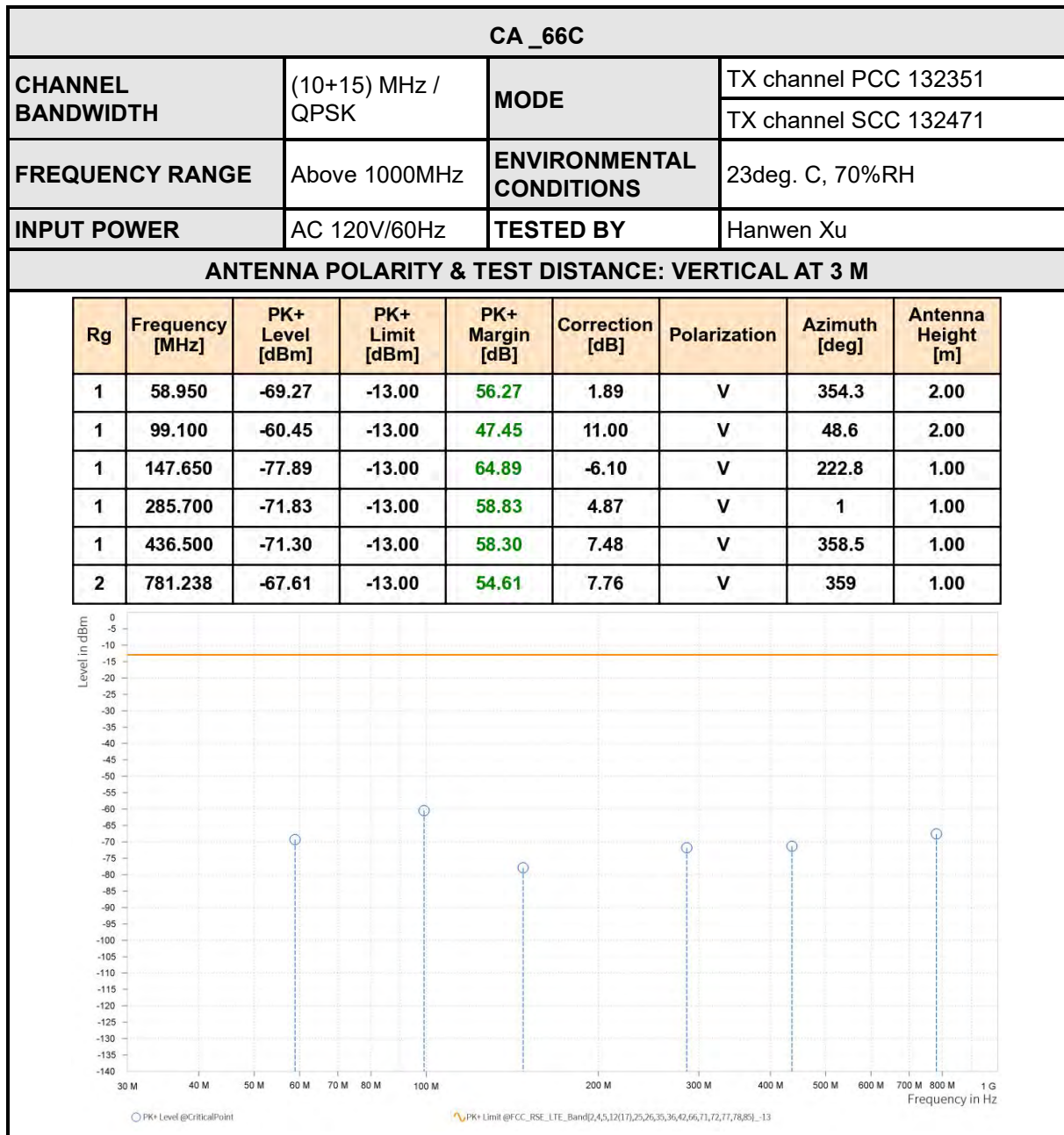












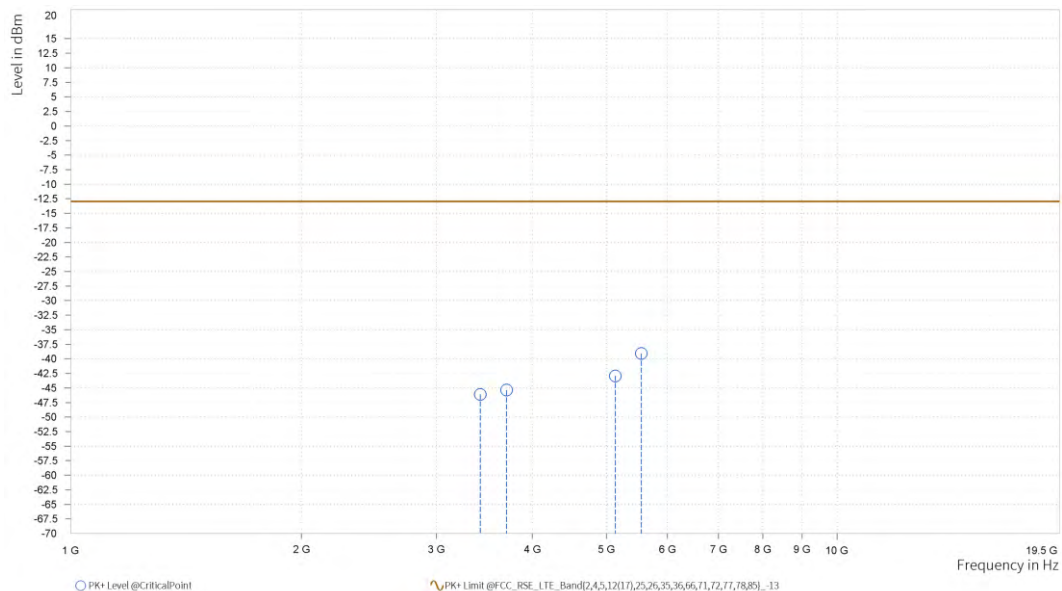


CA_2A_4A

CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 18700/20050
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,422.000	-46.11	-13.00	33.11	27.03	H	0.9	2.00
4	3,702.000	-45.38	-13.00	32.38	26.37	H	1	1.00
4	5,133.000	-42.95	-13.00	29.95	31.06	H	90.4	2.00
4	5,553.000	-39.08	-13.00	26.08	34.48	H	90.4	2.00

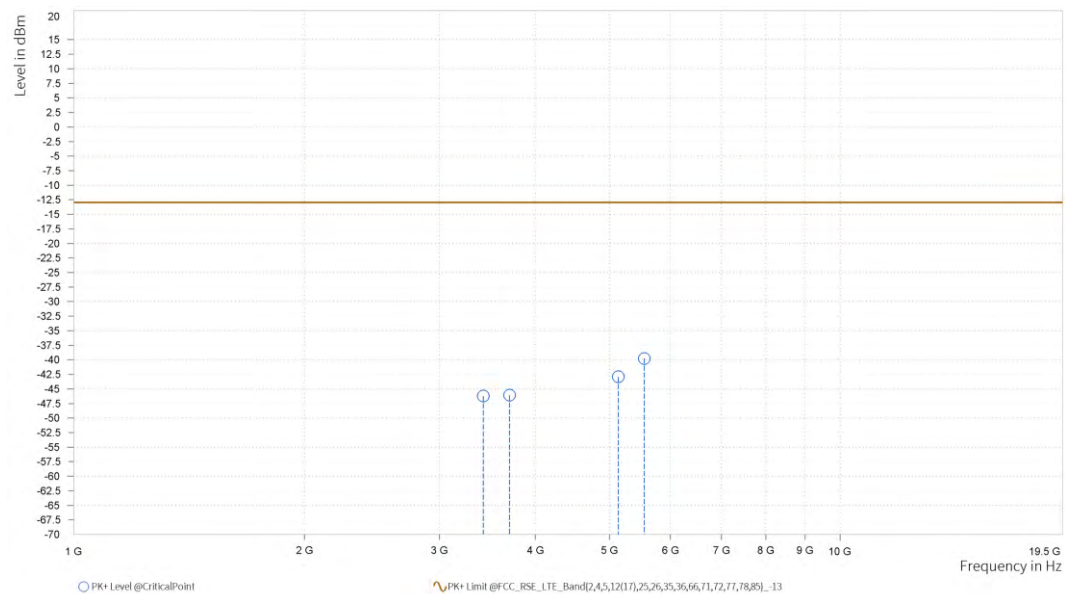




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 18700/20050
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,422.000	-46.24	-13.00	33.24	26.83	V	11.4	2.00
4	3,702.000	-46.09	-13.00	33.09	26.19	V	263.6	1.00
4	5,133.000	-42.91	-13.00	29.91	30.93	V	263.6	1.00
4	5,553.000	-39.77	-13.00	26.77	34.22	V	0.9	2.00

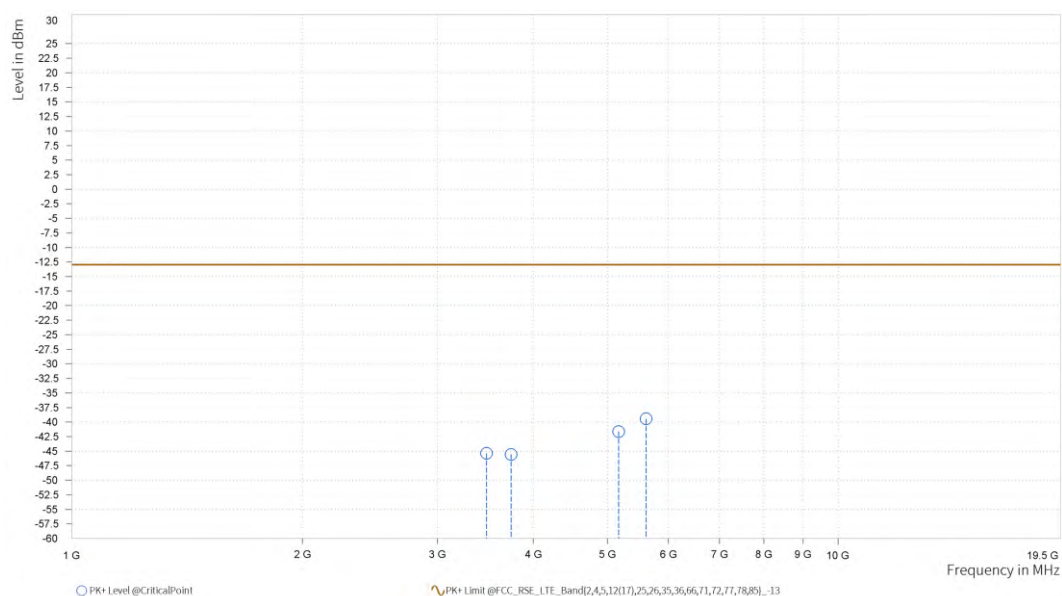




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 1890020175
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,477.000	-45.37	-13.00	32.37	26.32	H	1	1.00
4	3,742.000	-45.56	-13.00	32.56	27.41	H	359.1	1.00
4	5,170.500	-41.64	-13.00	28.64	31.93	H	113.1	2.00
4	5,613.000	-39.45	-13.00	26.45	34.70	H	113.1	2.00

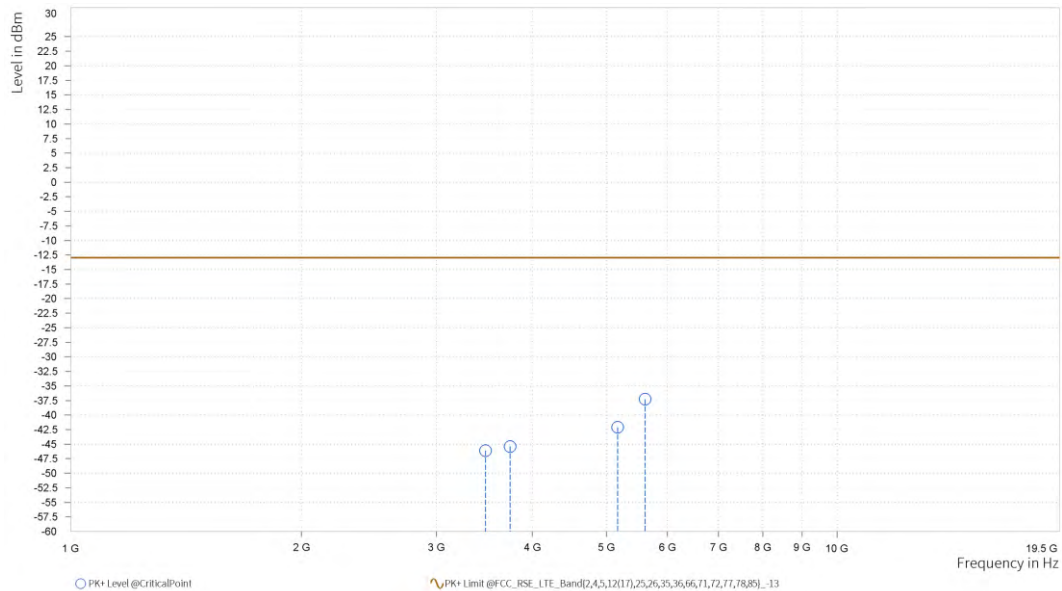




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 1890020175
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,477.000	-46.12	-13.00	33.12	26.07	V	247	1.00
4	3,742.000	-45.41	-13.00	32.41	27.14	V	359	1.00
4	5,170.500	-42.10	-13.00	29.10	31.85	V	0.9	2.00
4	5,613.000	-37.28	-13.00	24.28	34.44	V	247	1.00

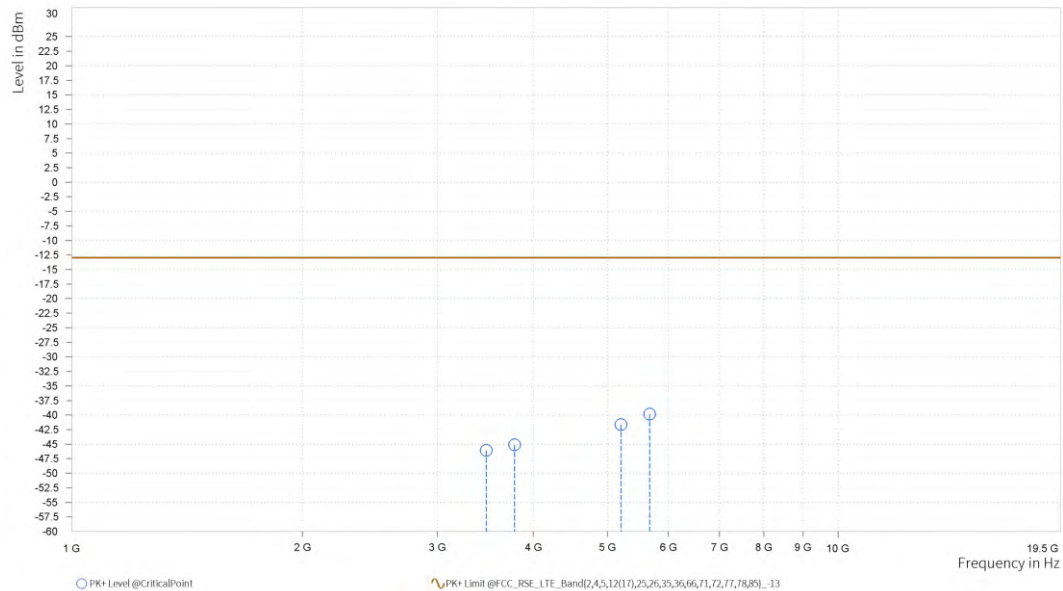




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 19100/20300
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,472.000	-46.09	-13.00	33.09	26.27	H	359	2.00
4	3,782.000	-45.14	-13.00	32.14	27.26	H	359.1	1.00
4	5,205.000	-41.67	-13.00	28.67	32.01	H	107.2	2.00
4	5,673.000	-39.85	-13.00	26.85	34.24	H	1	1.00

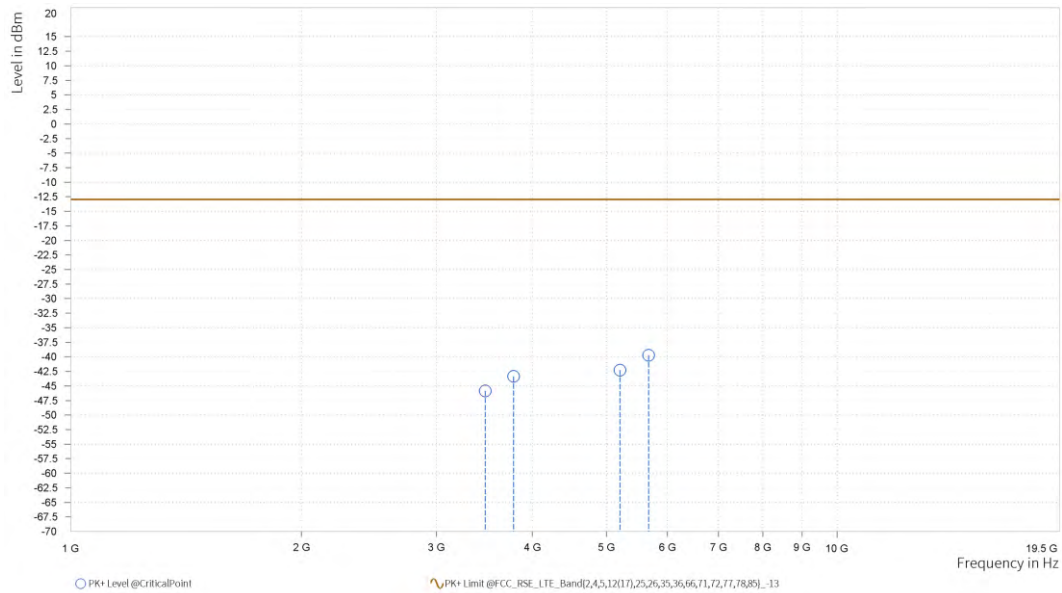




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 19100/20300
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,472.000	-45.84	-13.00	32.84	26.00	V	254.1	1.00
4	3,782.000	-43.36	-13.00	30.36	26.94	V	9.4	2.00
4	5,208.000	-42.28	-13.00	29.28	31.87	V	9.4	2.00
4	5,673.000	-39.73	-13.00	26.73	33.97	V	254.1	1.00



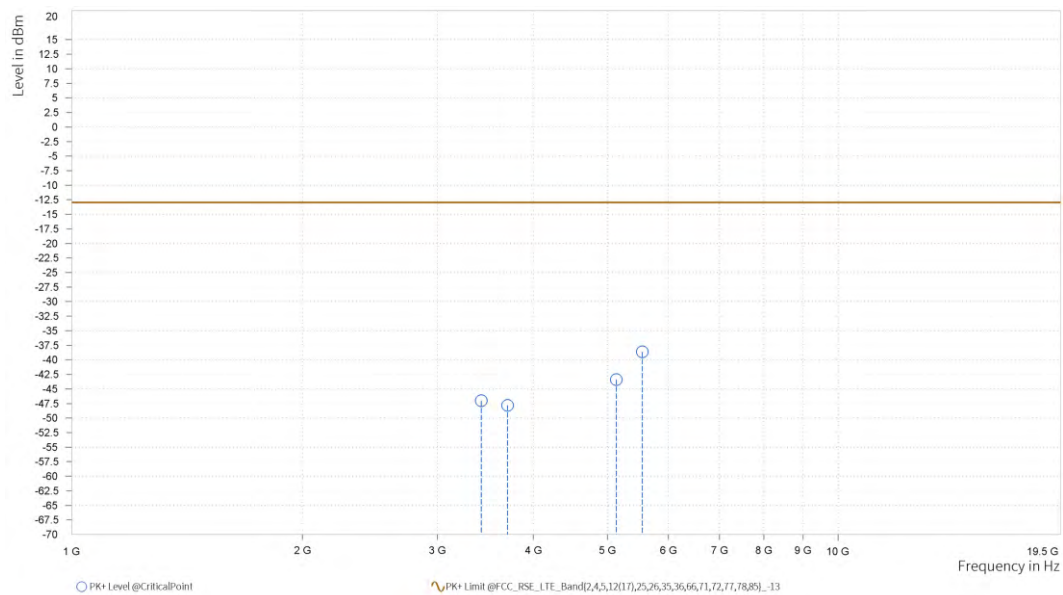


CA_2A_66A

CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 18700/132072
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,422.000	-47.04	-13.00	34.04	27.03	H	359	2.00
4	3,702.000	-47.82	-13.00	34.82	26.37	H	0.9	2.00
4	5,133.000	-43.38	-13.00	30.38	31.06	H	127.4	2.00
4	5,553.000	-38.63	-13.00	25.63	34.48	H	0.9	2.00

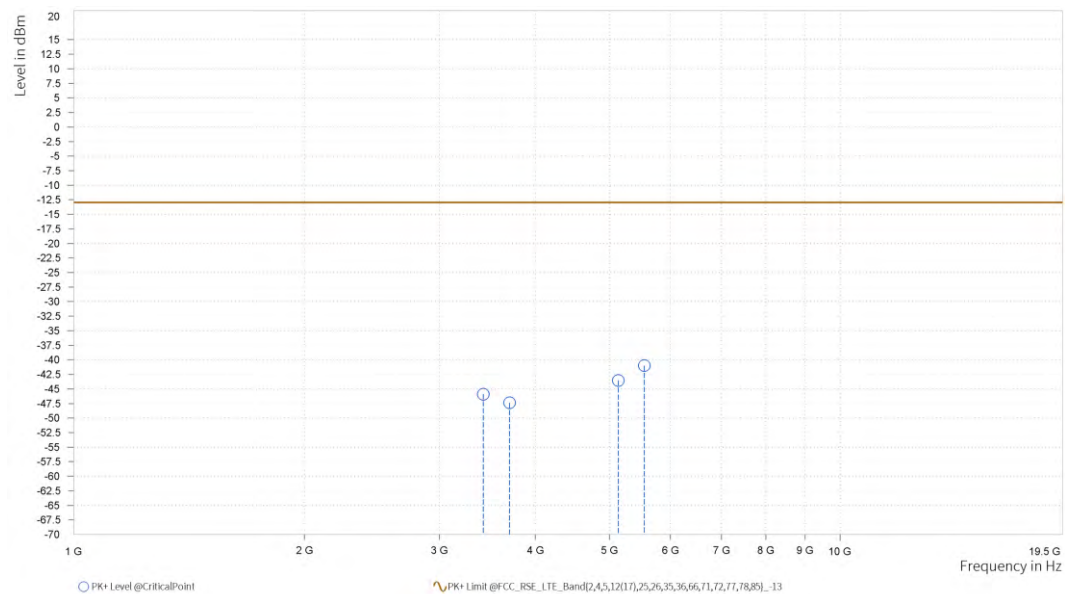




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 18700/132072
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,422.000	-45.90	-13.00	32.90	26.83	V	359	2.00
4	3,702.000	-47.39	-13.00	34.39	26.19	V	0.9	2.00
4	5,133.000	-43.53	-13.00	30.53	30.93	V	127.4	2.00
4	5,553.000	-40.99	-13.00	27.99	34.22	V	127.4	2.00

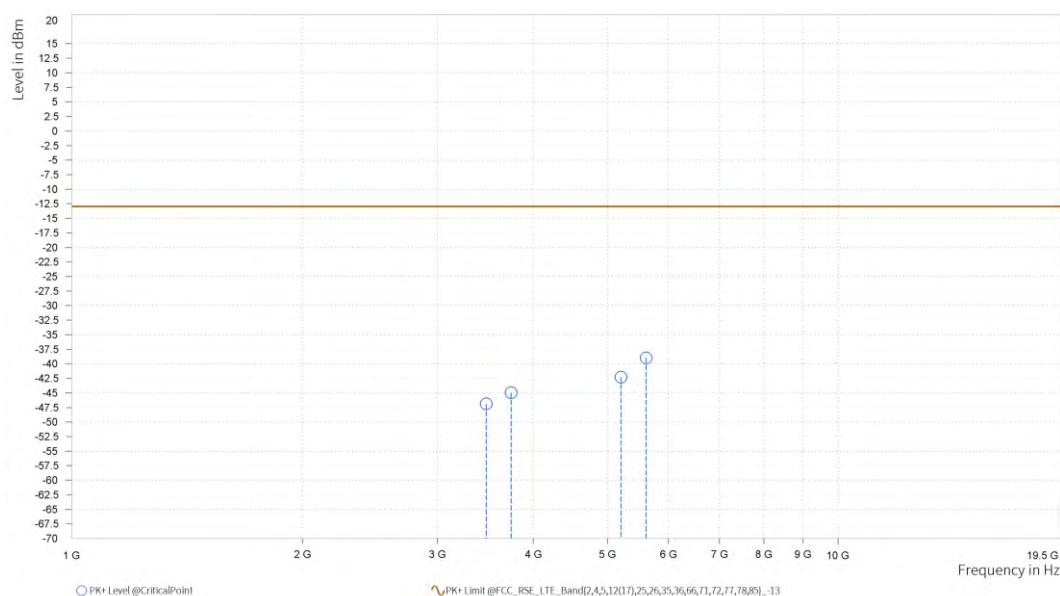




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 18900/132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,472.000	-46.89	-13.00	33.89	26.27	H	108.4	2.00
4	3,742.000	-44.96	-13.00	31.96	27.41	H	0.9	2.00
4	5,208.000	-42.29	-13.00	29.29	31.90	H	359.1	1.00
4	5,613.000	-38.96	-13.00	25.96	34.70	H	1	1.00

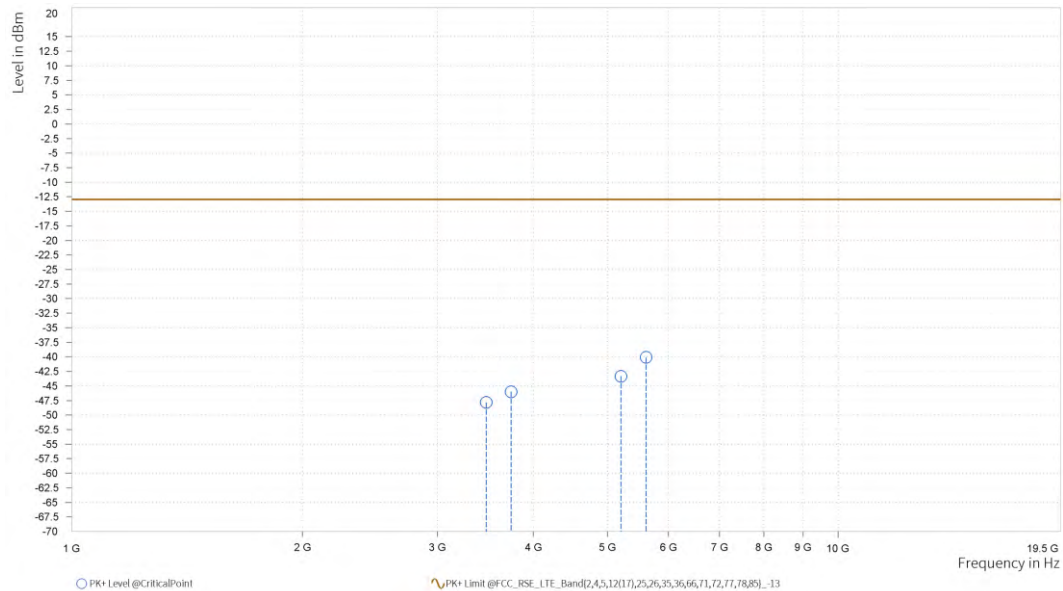




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 18900/132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,472.000	-47.83	-13.00	34.83	26.00	V	257.7	1.00
4	3,742.000	-46.01	-13.00	33.01	27.14	V	105.9	2.00
4	5,208.000	-43.35	-13.00	30.35	31.87	V	257.7	1.00
4	5,613.000	-40.09	-13.00	27.09	34.44	V	1	1.00

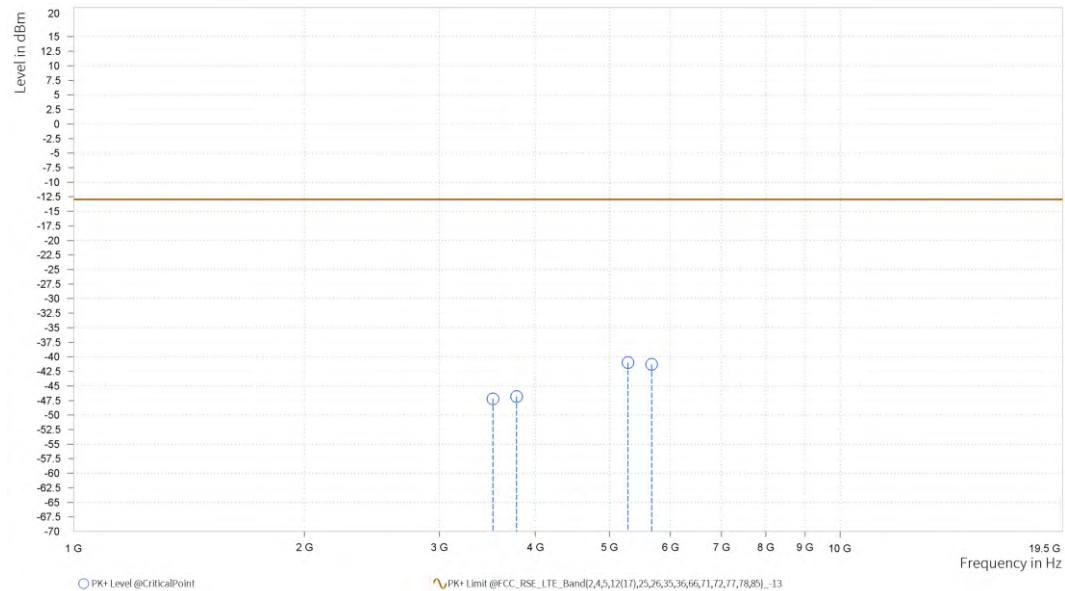




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 19100/132572
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,522.000	-47.20	-13.00	34.20	27.14	H	359	2.00
4	3,782.000	-46.81	-13.00	33.81	27.26	H	232.6	1.00
4	5,283.000	-40.99	-13.00	27.99	33.37	H	359	1.00
4	5,673.000	-41.31	-13.00	28.31	34.24	H	232.6	1.00

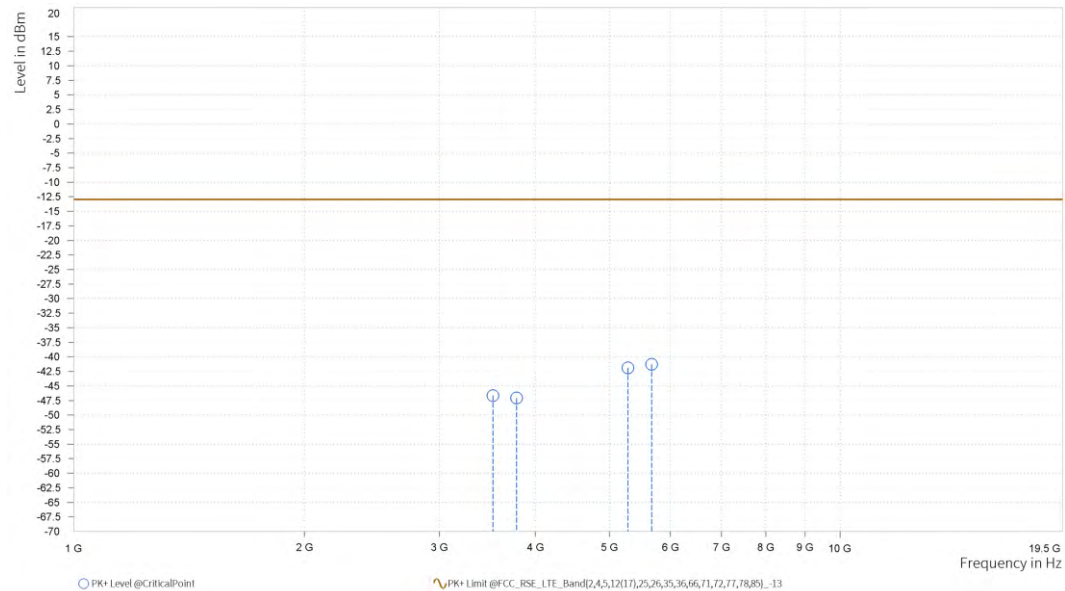




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 19100132572
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
4	3,522.000	-46.66	-13.00	33.66	27.00	V	0.9	2.00
4	3,782.000	-47.08	-13.00	34.08	26.94	V	125	2.00
4	5,283.000	-41.90	-13.00	28.90	33.28	V	125	2.00
4	5,673.000	-41.30	-13.00	28.30	33.97	V	0.9	2.00



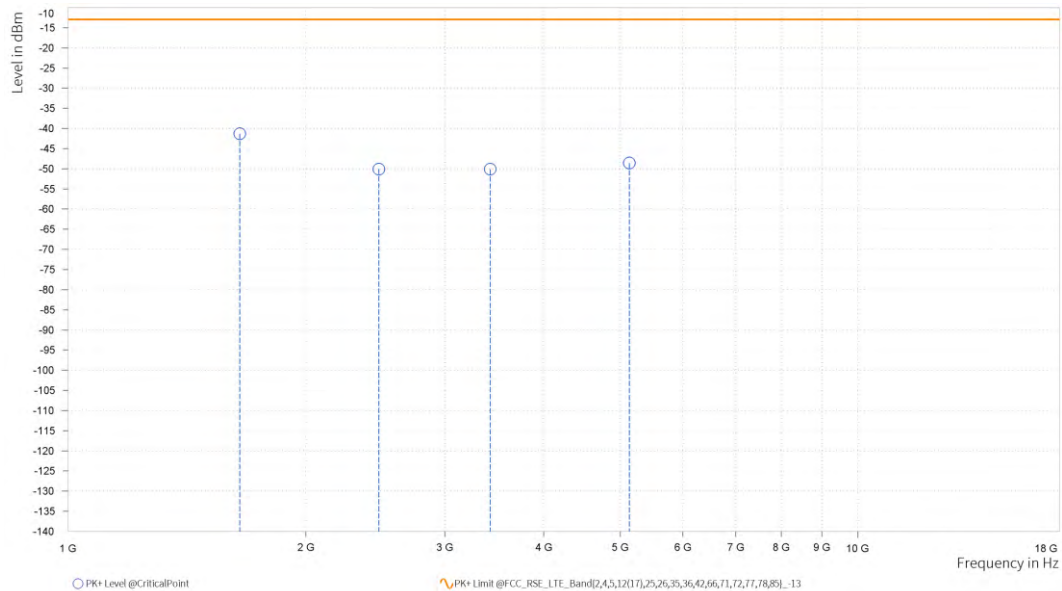


CA_5A_66A

CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 20450/132072
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,649.000	-41.33	-13.00	28.33	24.43	H	79	2.00
3	2,473.500	-50.08	-13.00	37.08	20.30	H	1	1.00
4	3,422.000	-50.09	-13.00	37.09	20.52	H	1.4	2.00
4	5,133.000	-48.59	-13.00	35.59	23.57	H	359	1.00

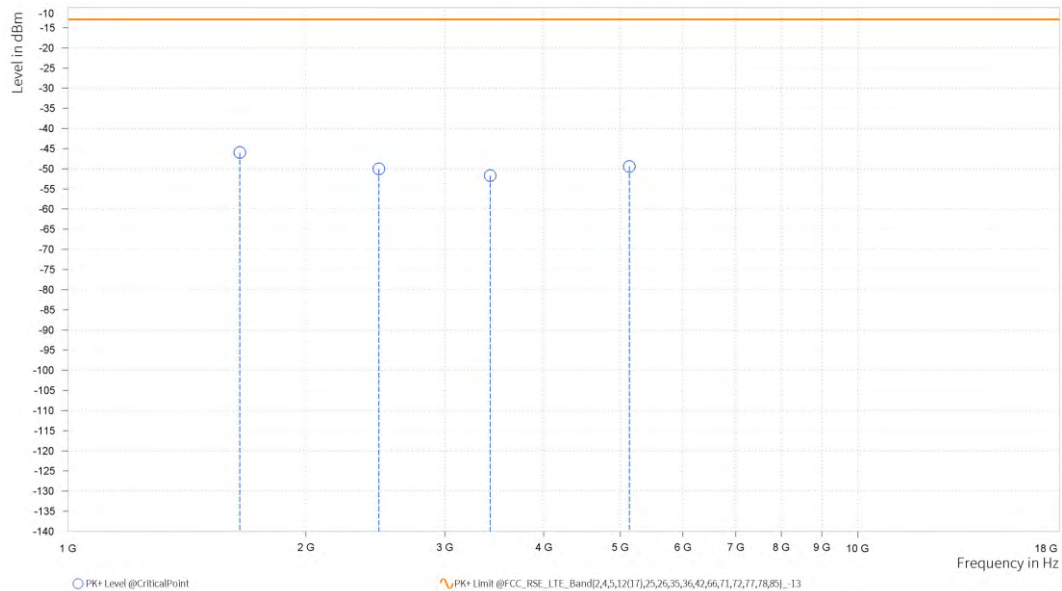




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 20450/132072
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,649.000	-45.98	-13.00	32.98	23.98	V	359	2.00
3	2,473.500	-50.03	-13.00	37.03	20.55	V	65.7	1.00
4	3,422.000	-51.72	-13.00	38.72	20.87	V	1	2.00
4	5,133.000	-49.43	-13.00	36.43	23.88	V	356.9	1.00

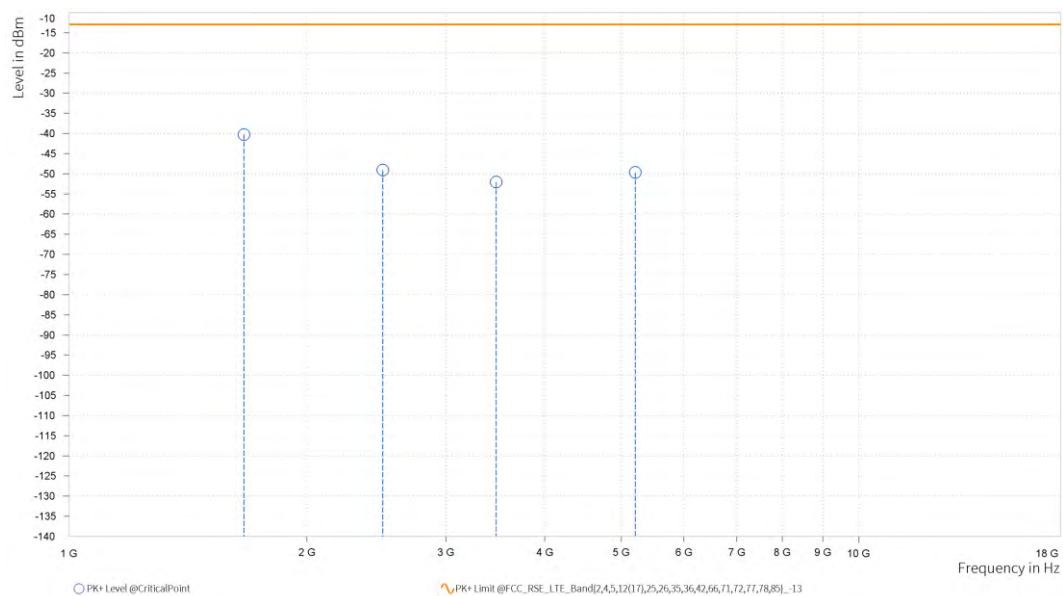




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 20525/132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,664.000	-40.28	-13.00	27.28	24.99	H	85.4	2.00
3	2,496.000	-49.08	-13.00	36.08	20.76	H	65.7	1.00
4	3,472.000	-52.08	-13.00	39.08	20.35	H	359	2.00
4	5,208.000	-49.67	-13.00	36.67	23.90	H	357.6	1.00

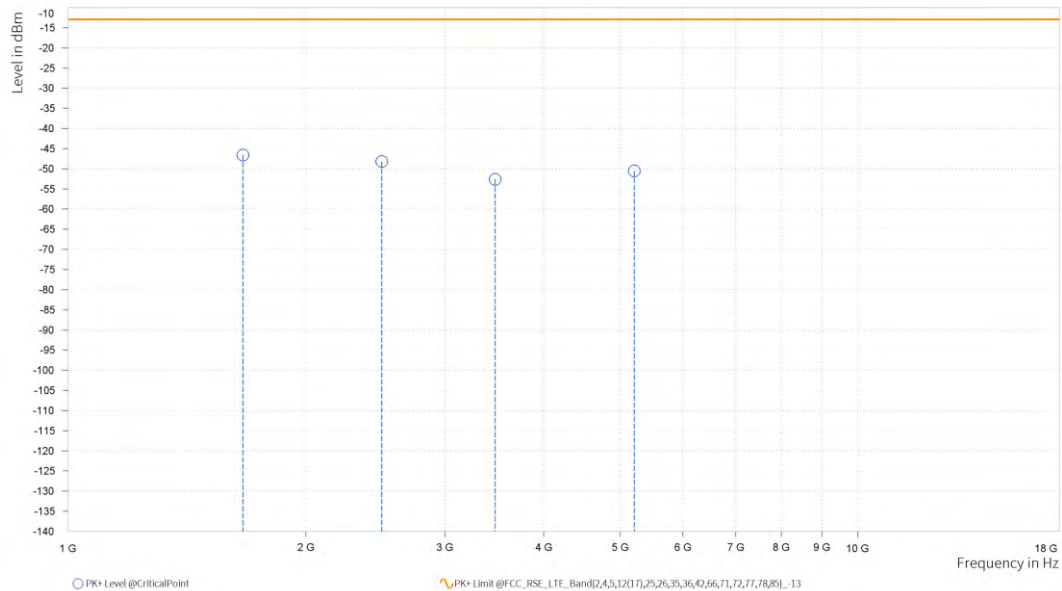




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 20525/132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,664.000	-46.60	-13.00	33.60	23.87	V	1	1.00
3	2,496.000	-48.24	-13.00	35.24	21.03	V	237.6	2.00
4	3,472.000	-52.60	-13.00	39.60	21.07	V	207.2	2.00
4	5,208.000	-50.50	-13.00	37.50	24.49	V	359	2.00

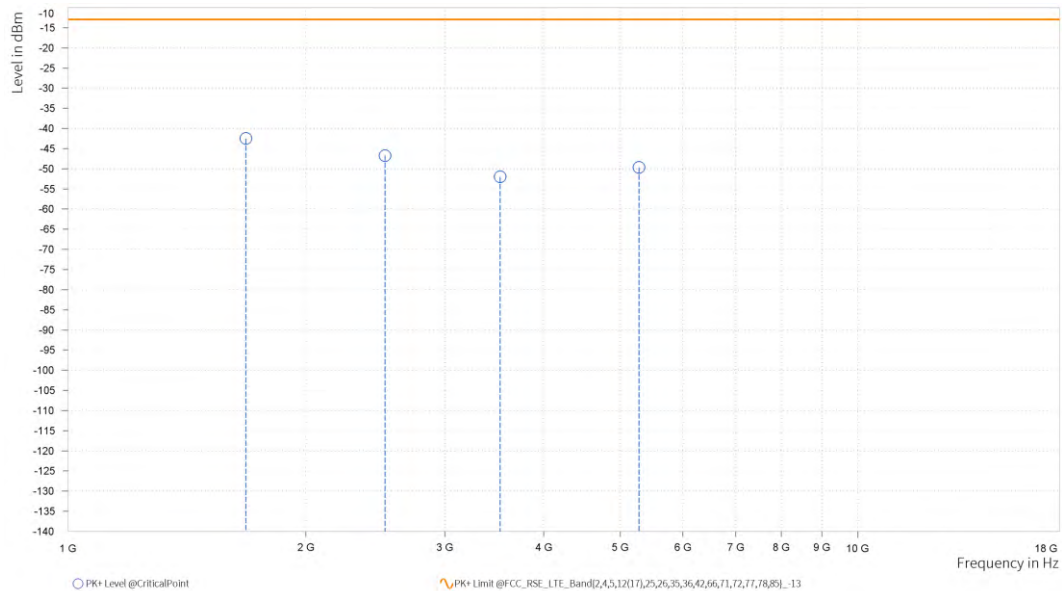




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 20600/132572
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,679.000	-42.48	-13.00	29.48	25.29	H	87.6	2.00
3	2,518.500	-46.72	-13.00	33.72	20.28	H	79.1	2.00
4	3,522.000	-51.99	-13.00	38.99	20.66	H	2.4	2.00
4	5,283.000	-49.68	-13.00	36.68	24.14	H	70.6	2.00

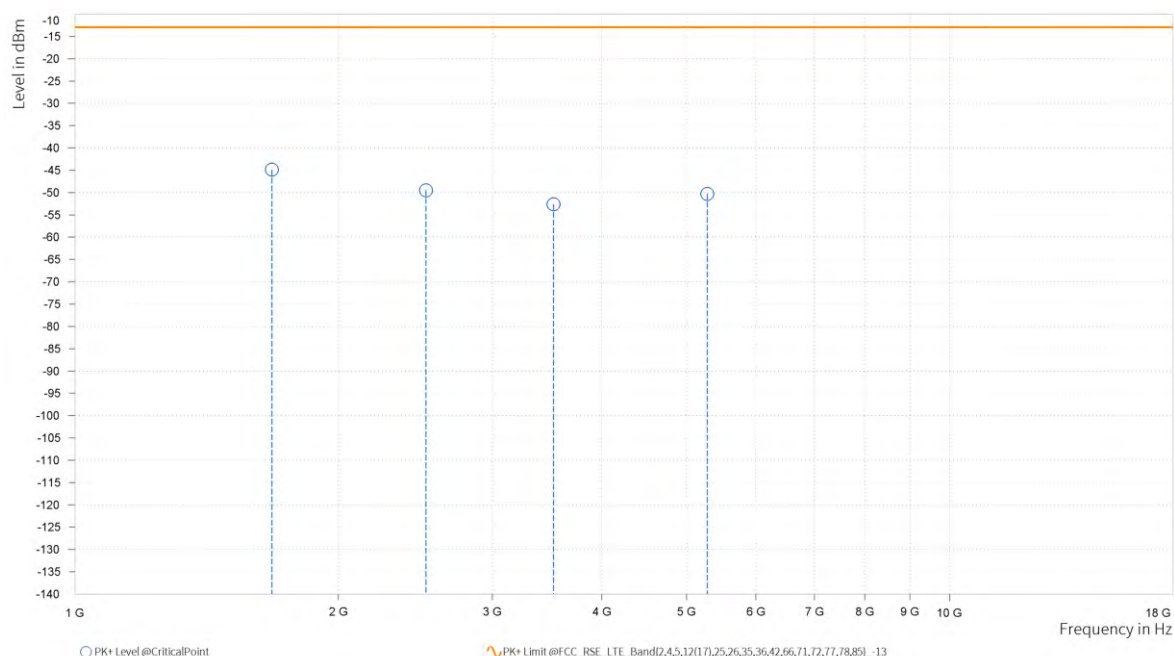




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 20600/132572
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,679.000	-44.89	-13.00	31.89	24.21	V	12.5	2.00
3	2,518.500	-49.50	-13.00	36.50	21.13	V	1	1.00
4	3,522.000	-52.61	-13.00	39.61	21.24	V	72.7	2.00
4	5,283.000	-50.27	-13.00	37.27	24.65	V	359	2.00



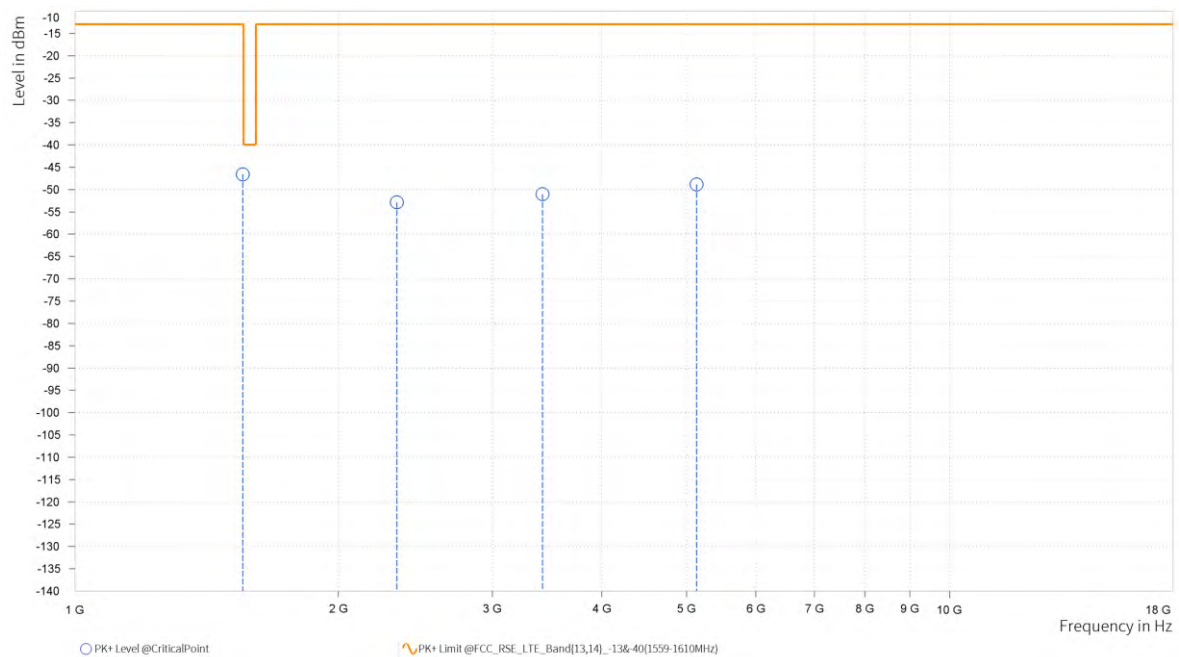


CA_13A_66A

CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 23230/132072
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,555.000	-46.57	-13.00	33.57	22.38	H	72.8	2.00
3	2,332.500	-52.85	-13.00	39.85	19.37	H	359	2.00
4	3,422.000	-51.04	-13.00	38.04	20.52	H	359	2.00
4	5,133.000	-48.85	-13.00	35.85	23.57	H	302.1	1.00

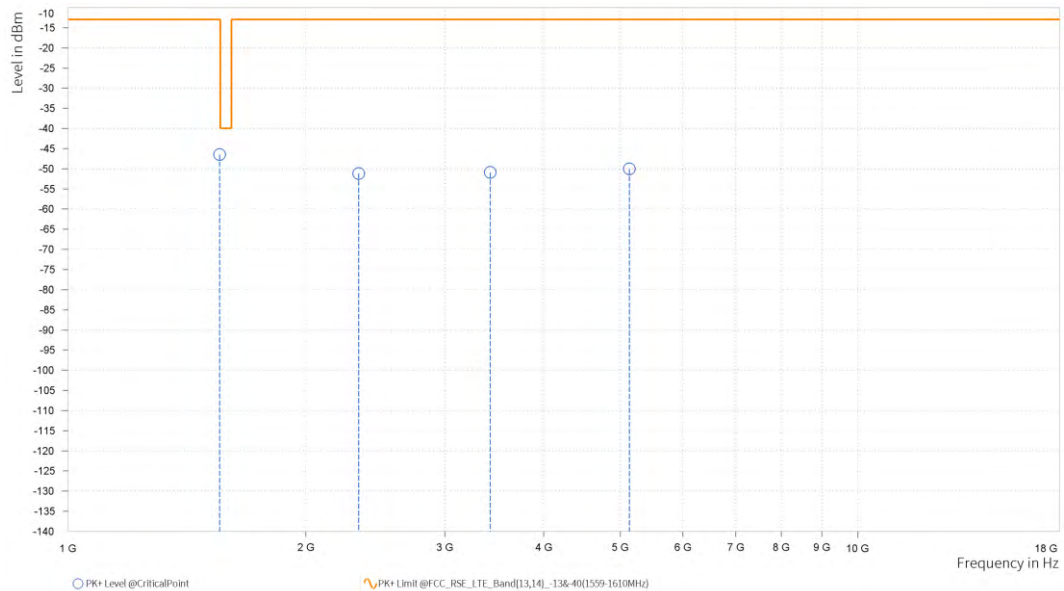




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 23230/132072
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,555.000	-46.48	-13.00	33.48	23.72	V	302.8	1.00
3	2,332.500	-51.17	-13.00	38.17	19.96	V	3.3	2.00
4	3,422.000	-50.91	-13.00	37.91	20.87	V	2.1	2.00
4	5,133.000	-50.04	-13.00	37.04	23.88	V	1	1.00

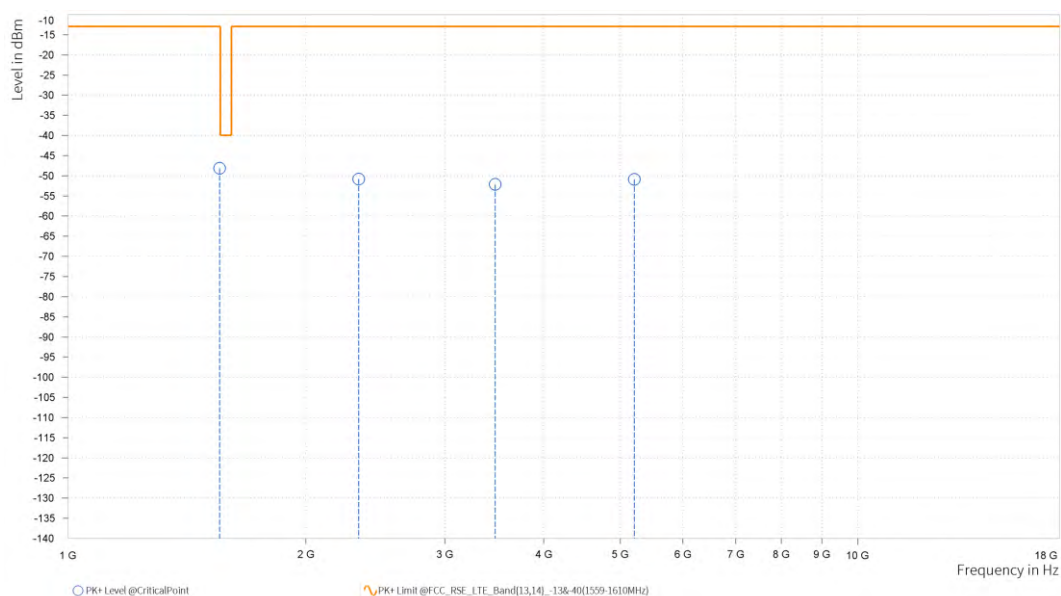




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 23230/132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,555.000	-48.13	-13.00	35.13	22.38	H	359	2.00
3	2,332.500	-50.78	-13.00	37.78	19.37	H	2.6	2.00
4	3,472.000	-52.15	-13.00	39.15	20.35	H	98.2	1.00
4	5,208.000	-50.92	-13.00	37.92	23.90	H	243.2	2.00

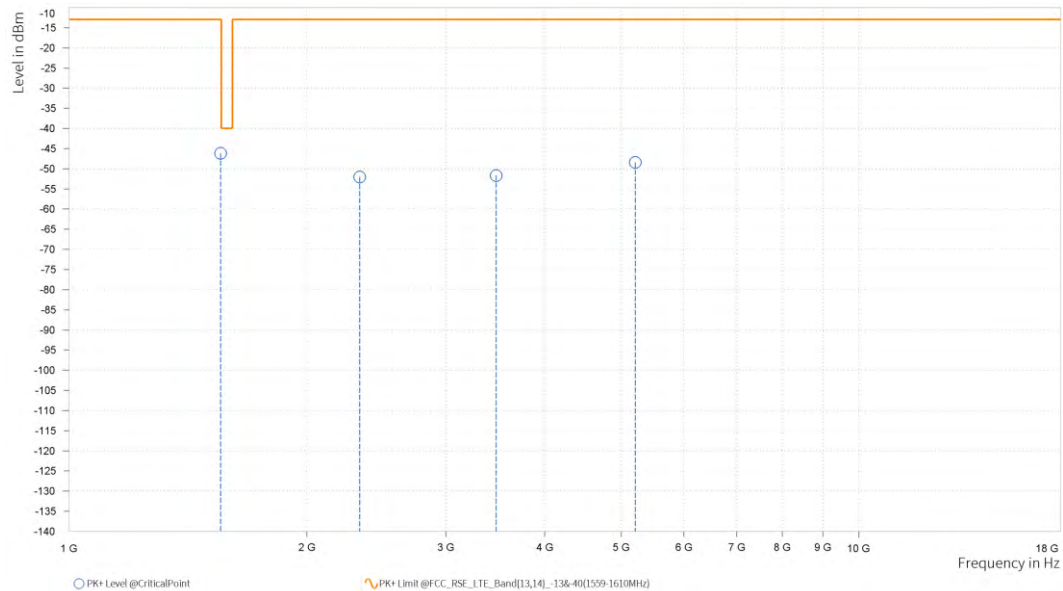




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 23230/132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,555.000	-46.19	-13.00	33.19	23.72	V	359	2.00
3	2,332.500	-52.03	-13.00	39.03	19.96	V	5.2	2.00
4	3,472.000	-51.68	-13.00	38.68	21.07	V	263.1	2.00
4	5,208.000	-48.46	-13.00	35.46	24.49	V	145	2.00

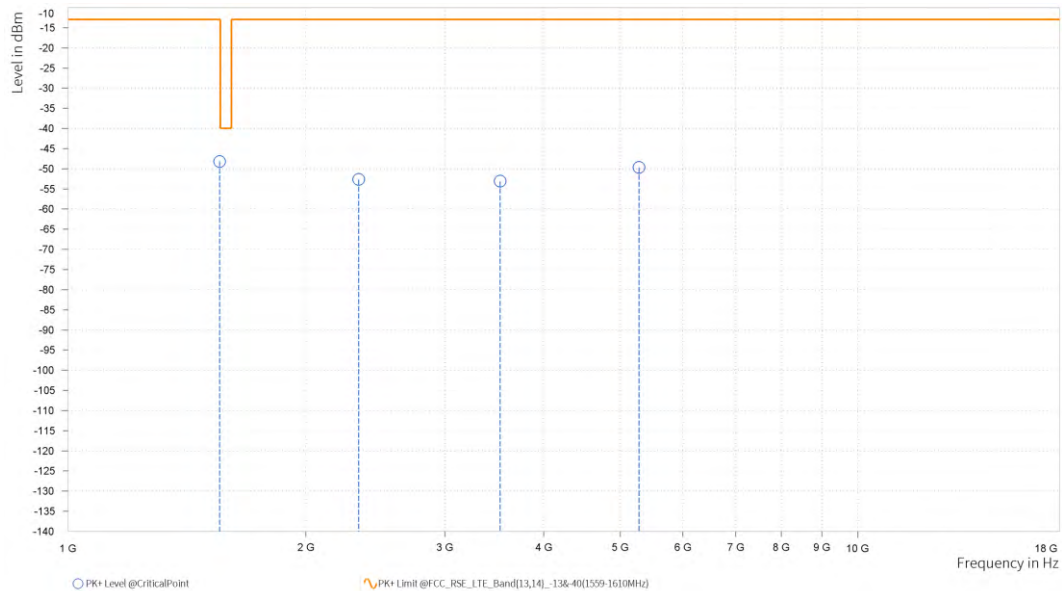




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 23230/132572
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,555.000	-48.17	-13.00	35.17	22.38	H	1	1.00
3	2,332.500	-52.64	-13.00	39.64	19.37	H	1.9	2.00
4	3,522.000	-53.08	-13.00	40.08	20.66	H	359	1.00
4	5,283.000	-49.68	-13.00	36.68	24.14	H	1.2	2.00

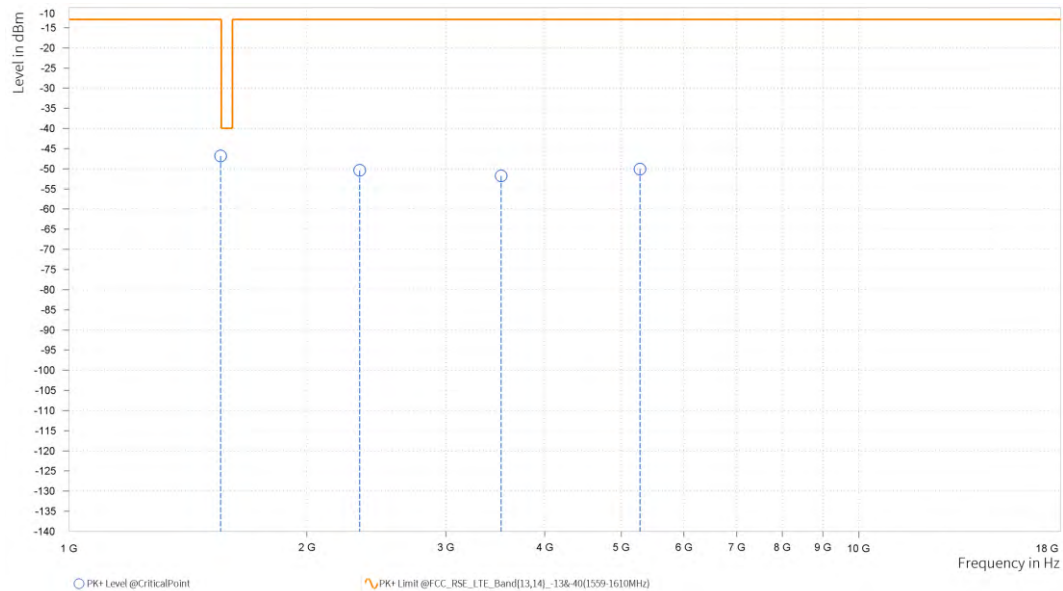




CHANNEL BANDWIDTH	20MHz+20MHz / QPSK	MODE	TX channel 23230/132572
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

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]
2	1,555.000	-46.79	-13.00	33.79	23.72	V	324.6	2.00
3	2,332.500	-50.41	-13.00	37.41	19.96	V	357.5	1.00
4	3,522.000	-51.79	-13.00	38.79	21.24	V	61.4	2.00
4	5,283.000	-50.07	-13.00	37.07	24.65	V	358.2	1.00

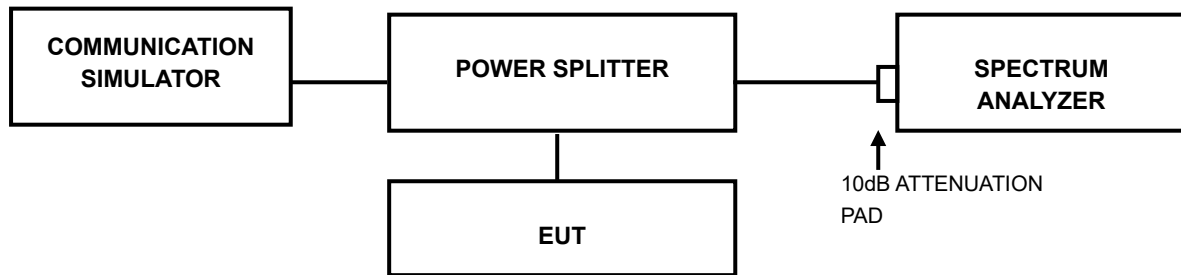


3.7 PEAK TO AVERAGE RATIO

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%.

3.7.4 TEST RESULTS

Please Refer to single band Appendix G&H.



4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

5 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.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

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

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



6 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.



7 Appendix:

LTE BAND 66(INCLUDING LTE BAND4)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	20MHz	QPSK	132072	1RB#0	4.57	13	PASS
Band66	20MHz	QPSK	132072	100RB#0	5.59	13	PASS
Band66	20MHz	QPSK	132322	1RB#0	5.14	13	PASS
Band66	20MHz	QPSK	132322	100RB#0	5.55	13	PASS
Band66	20MHz	QPSK	132572	1RB#0	5.46	13	PASS
Band66	20MHz	QPSK	132572	100RB#0	5.69	13	PASS



Test Graphs

