4.7.7. Test Result of Band Edge and Fundamental Emissions

For Antenna 1:

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 20M / Average / Port 1+Port 2

Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5180	-49.22	-46.82	-42.85	-41.25	1.60
5200	-50.81	-51.57	-46.16	-41.25	4.91
5240	-63.73	-57.22	-54.34	-41.25	13.09

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 20M / Peak / Port 1+Port 2

Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5180	-38.12	-34.04	-30.61	-21.25	9.36
5200	-37.19	-37.22	-32.19	-21.25	10.94
5240	-50.63	-38.94	-36.66	-21.25	15.41

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 80M / Average / Port 1+Port 2

Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5190	-44.32	-50.56	-41.39	-41.25	0.14
5200	-44.00	-52.95	-41.48	-41.25	0.23
5210	-43.99	-52.22	-41.38	-41.25	0.13

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 80M / Peak / Port 1+Port 2

Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5190	-30.11	-36.10	-27.13	-21.25	5.88
5200	-32.02	-42.20	-29.62	-21.25	8.37
5210	-30.28	-40.96	-27.92	-21.25	6.67

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 20M / Peak / Port 1+Port 2

Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5745	-30.84	-34.44	-27.27	-27.00	0.27
5785	-31.24	-33.38	-27.17	-27.00	0.17
5825	-32.95	-31.31	-27.04	-27.00	0.04

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 80M / Peak / Port 1+Port 2

Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5745	-32.80	-31.59	-27.14	-27.00	0.14
5785	-33.73	-31.18	-27.26	-27.00	0.26
5825	-32.48	-32.33	-27.39	-27.00	0.39

For Antenna 2:

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 20M / Average / Port 1+Port 2

Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5180	-66.75	-66.02	-41.36	-41.25	0.11
5200	-65.42	-68.07	-41.54	-41.25	0.29
5240	-65.40	-67.69	-41.39	-41.25	0.14

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 20M / Peak / Port 1+Port 2

Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5180	-58.20	-52.57	-29.52	-21.25	8.27
5200	-53.90	-55.98	-29.81	-21.25	8.56
5240	-52.67	-55.57	-28.87	-21.25	7.62

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 80M / Average / Port 1+Port 2

Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5200	-65.40	-68.86	-41.78	-41.25	0.53
5210	-65.23	-68.09	-41.42	-41.25	0.17

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 80M / Peak / Port 1+Port 2

Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5200	-53.62	-57.50	-30.13	-21.25	8.88
5210	-53.36	-57.62	-29.98	-21.25	8.73

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 20M / Peak / Port 1+Port 2

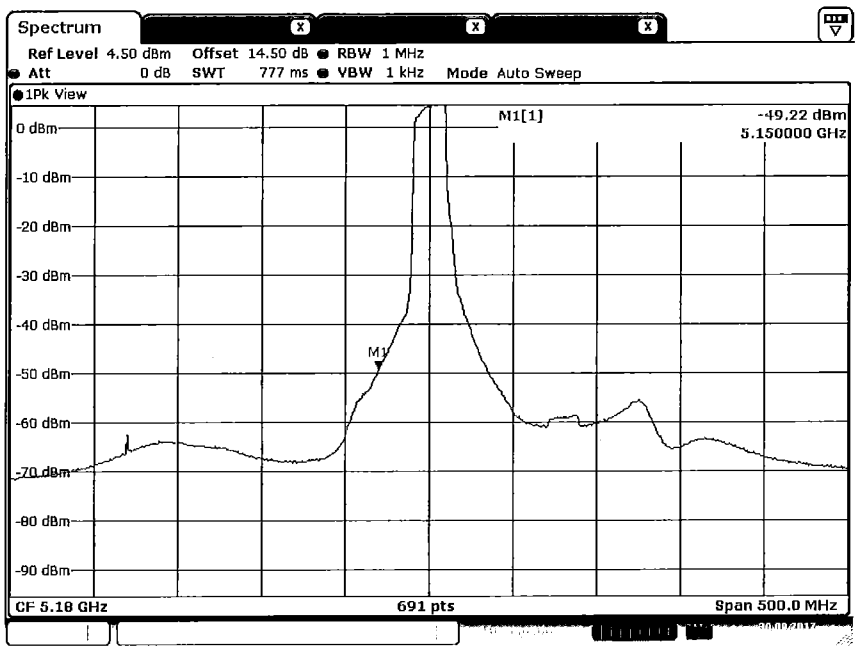
Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5745	-50.93	-54.29	-27.28	-27.00	0.28
5785	-50.34	-54.91	-27.04	-27.00	0.04
5825	-51.17	-53.51	-27.17	-27.00	0.17

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Configurations	QPSK, 80M / Peak / Port 1+Port 2

Frequency(MHz)	Port 1 (TX1) Spurious Level (dBm)	Port 2 (TX2) Spurious Level (dBm)	Total Spurious Level (dBm)	Limit (dBm)	Margin (dB)
5745	-50.61	-54.43	-27.10	-27.00	0.10
5785	-50.86	-54.41	-27.27	-27.00	0.27
5825	-51.64	-53.52	-27.47	-27.00	0.47

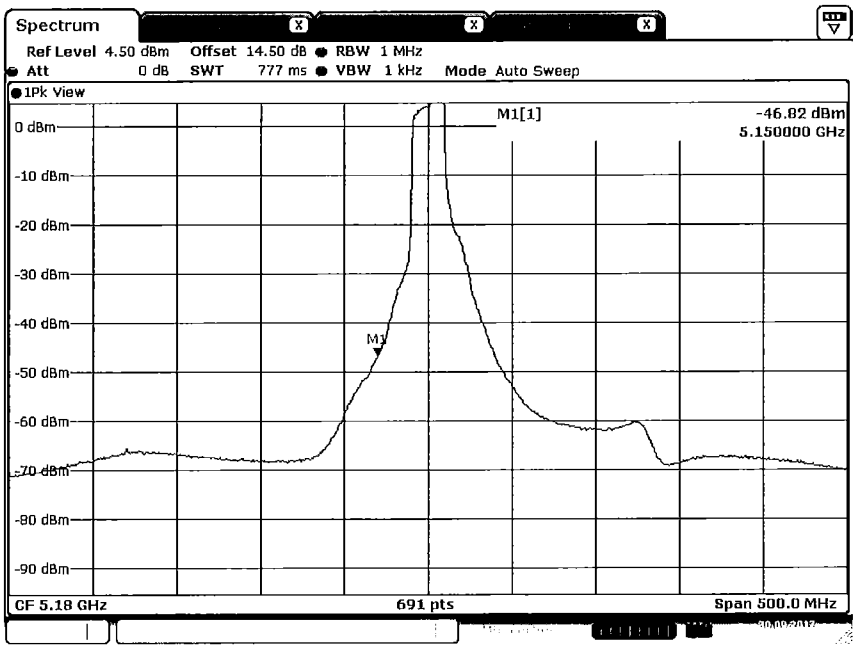
For Antenna 1:

Plot on Configuration QPSK, 20M / 5180 MHz / Average / Port 1 (TX1)



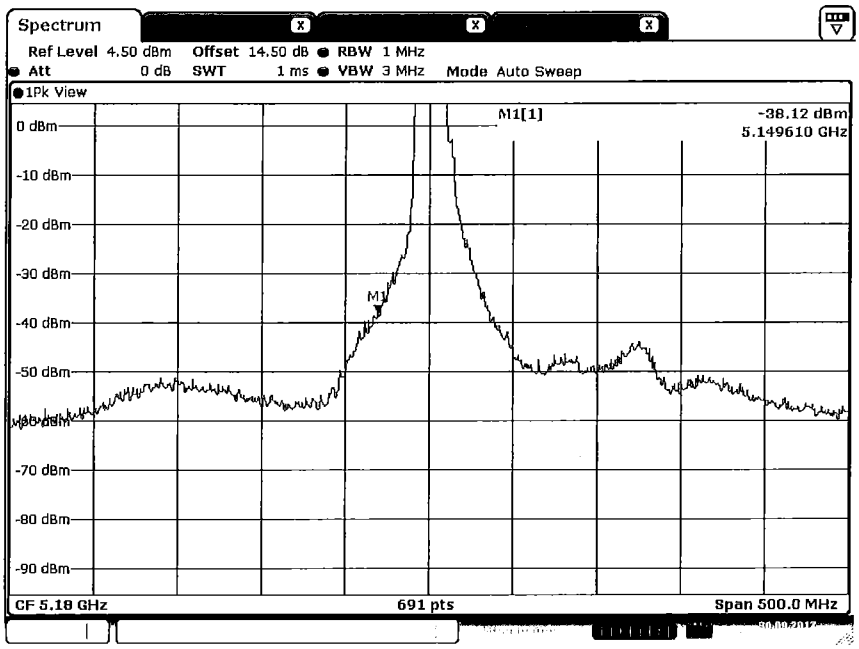
Date: 30.SEP.2017 00:16:39

Plot on Configuration QPSK, 20M / 5180 MHz / Average / Port 2 (TX2)



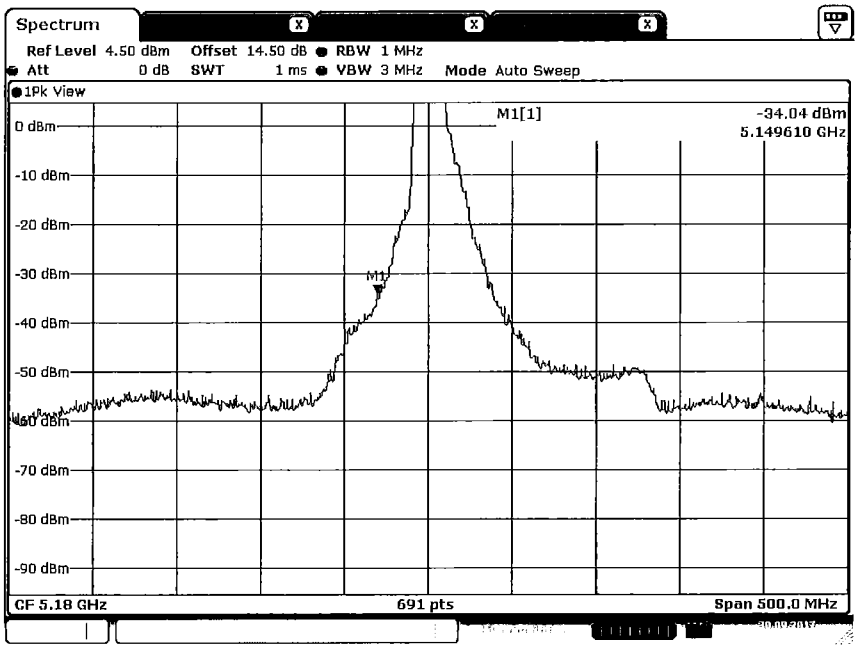
Date: 30.SEP.2017 00:17:41

Plot on Configuration QPSK, 20M / 5180 MHz / Peak / Port 1 (TX1)



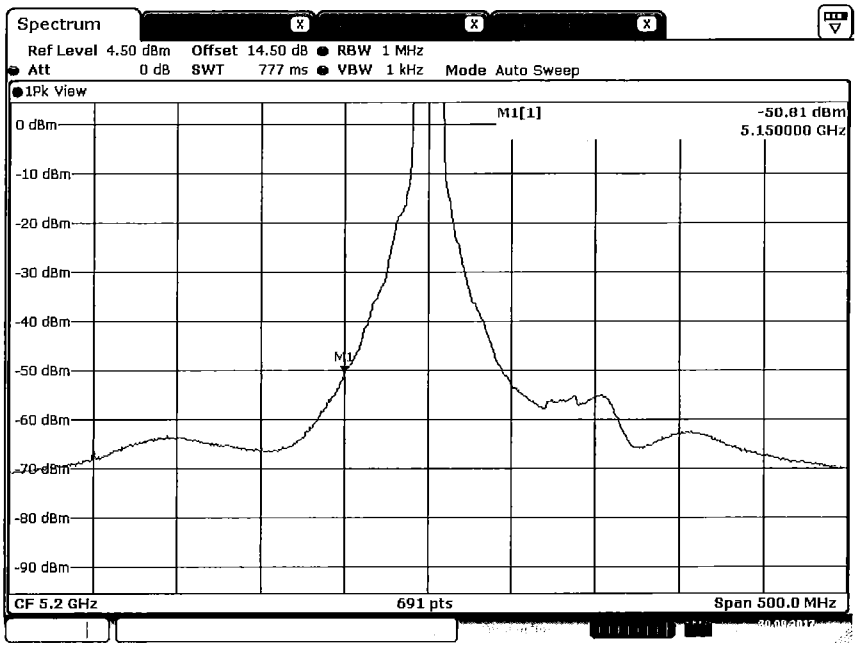
Date: 30.SEP.2017 00:41:52

Plot on Configuration QPSK, 20M / 5180 MHz / Peak / Port 2 (TX2)



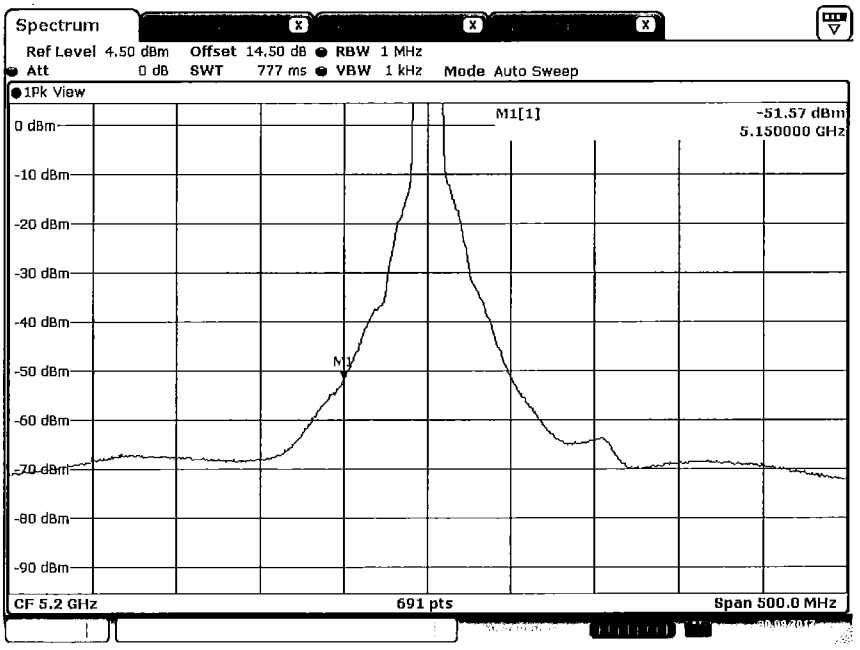
Date: 30.SEP.2017 00:40:26

Plot on Configuration QPSK, 20M / 5200 MHz / Average / Port 1 (TX1)



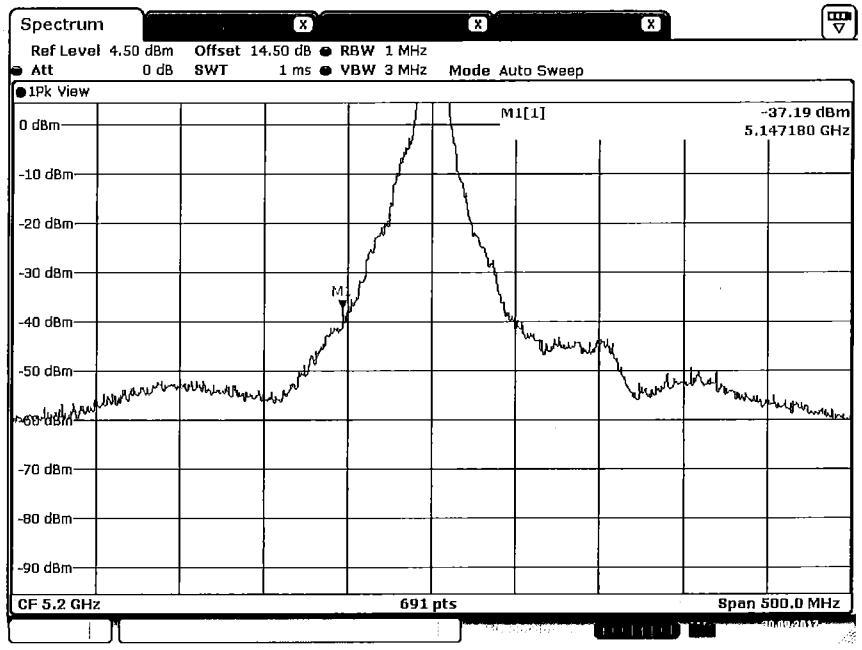
Date: 30.SEP.2017 00:24:27

Plot on Configuration QPSK, 20M / 5200 MHz / Average / Port 2 (TX2)



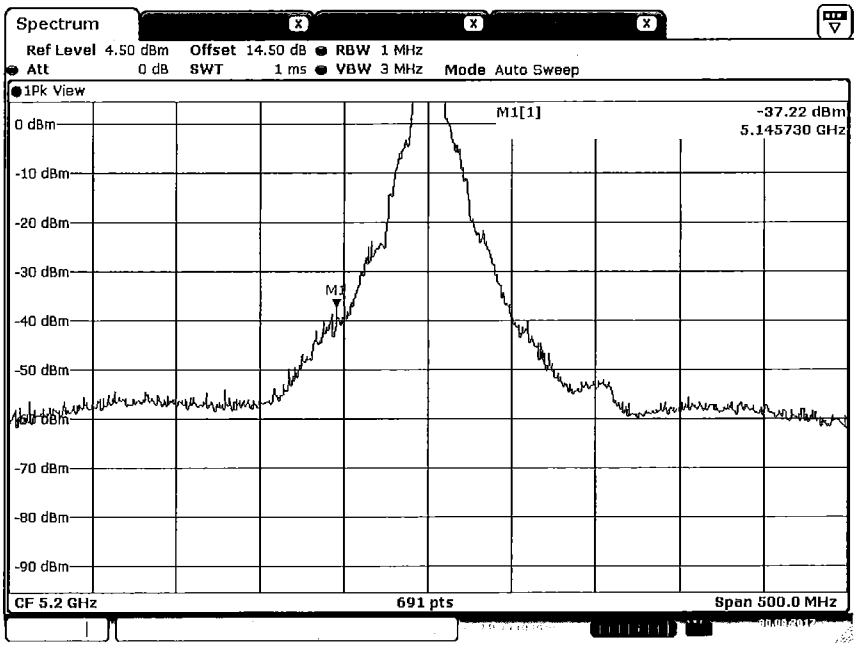
Date: 30.SEP.2017 00:25:29

Plot on Configuration QPSK, 20M / 5200 MHz / Peak / Port 1 (TX1)



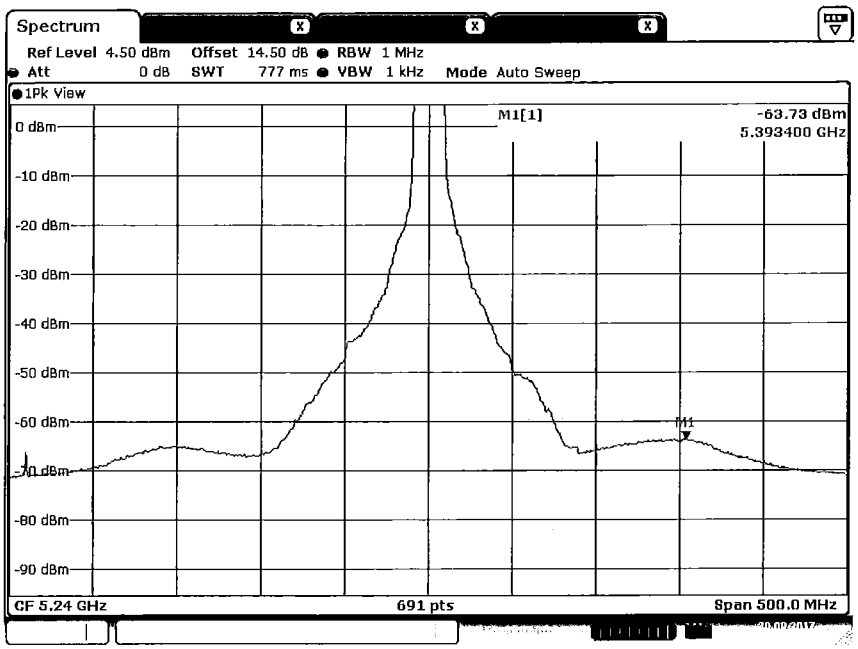
Date: 30.SEP.2017 00:38:21

Plot on Configuration QPSK, 20M / 5200 MHz / Peak / Port 2 (TX2)



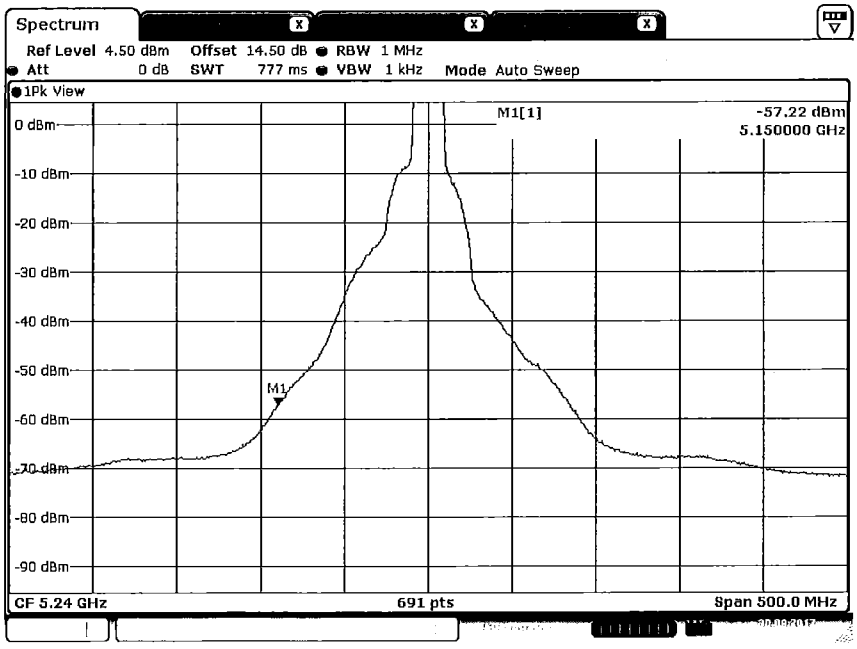
Date: 30.SEP.2017 00:36:27

Plot on Configuration QPSK, 20M / 5240 MHz / Average / Port 1 (TX1)



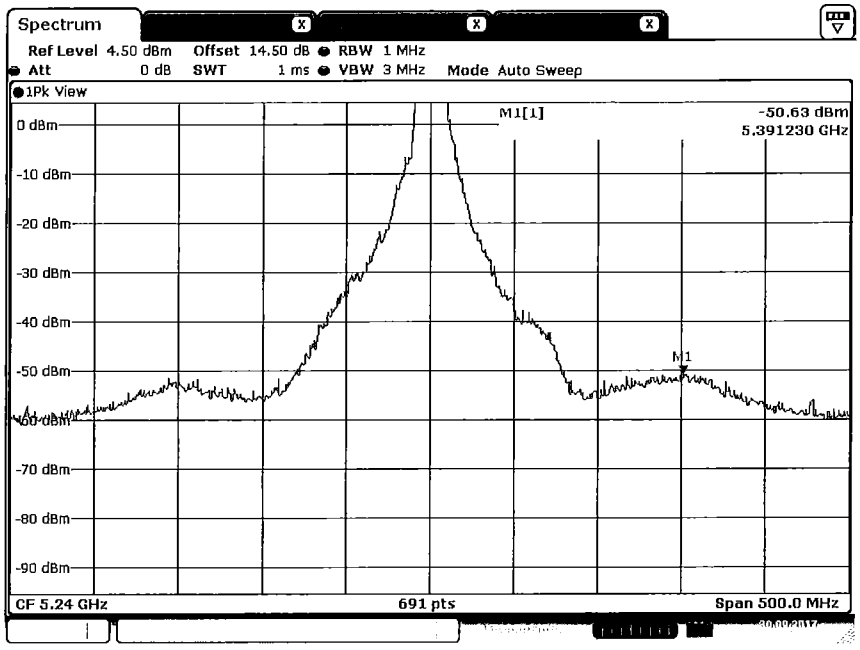
Date: 30.SEP.2017 00:31:06

Plot on Configuration QPSK, 20M / 5240 MHz / Average / Port 2 (TX2)



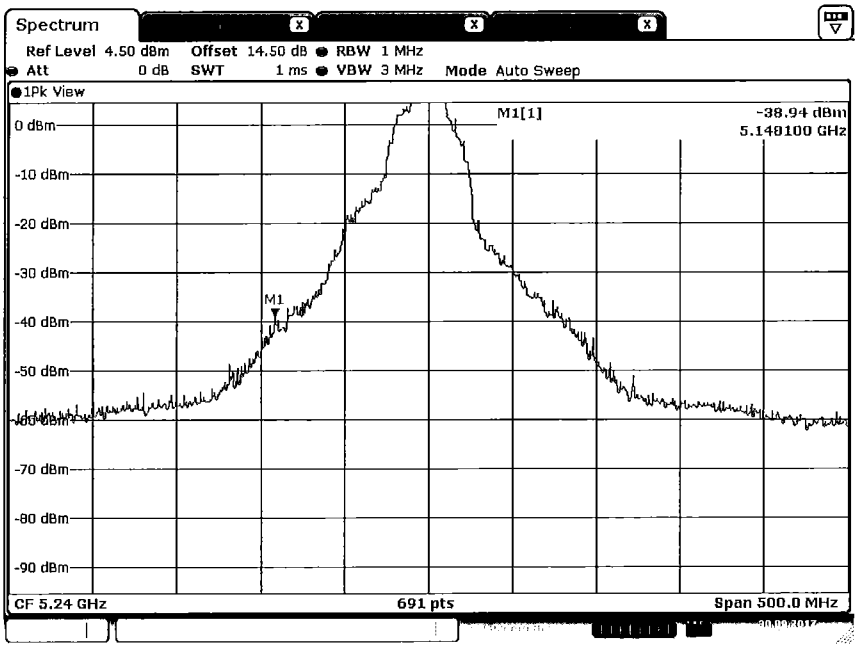
Date: 30.SEP.2017 00:28:06

Plot on Configuration QPSK, 20M / 5240 MHz / Peak / Port 1 (TX1)



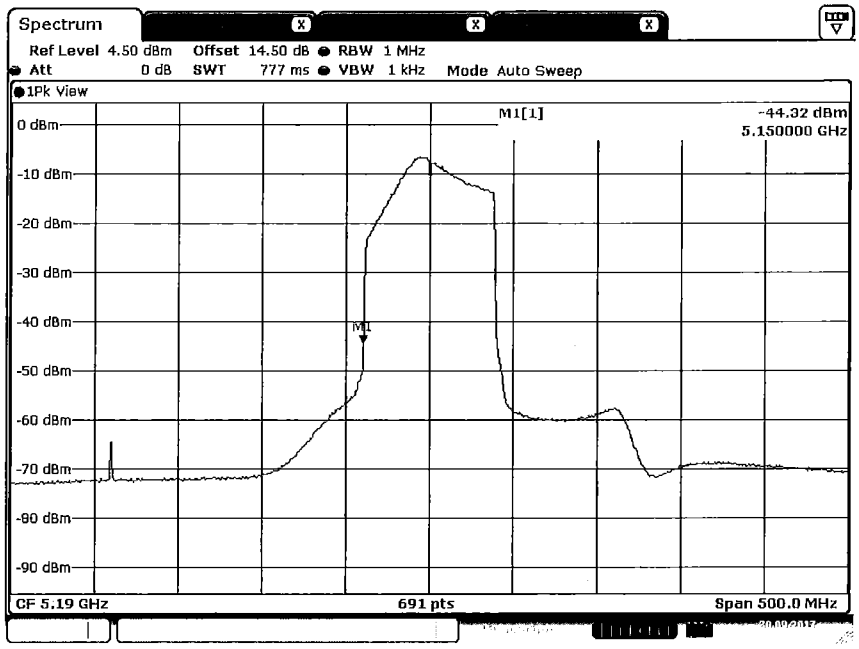
Date: 30.SEP.2017 00:33:42

Plot on Configuration QPSK, 20M / 5240 MHz / Peak / Port 2 (TX2)



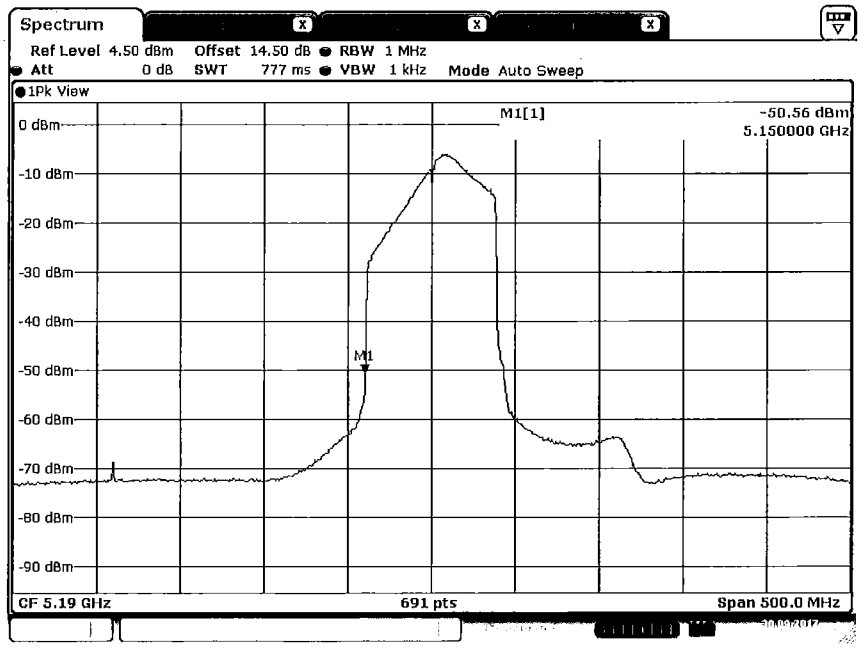
Date: 30.SEP.2017 00:35:05

Plot on Configuration QPSK, 80M / 5190 MHz / Average / Port 1 (TX1)



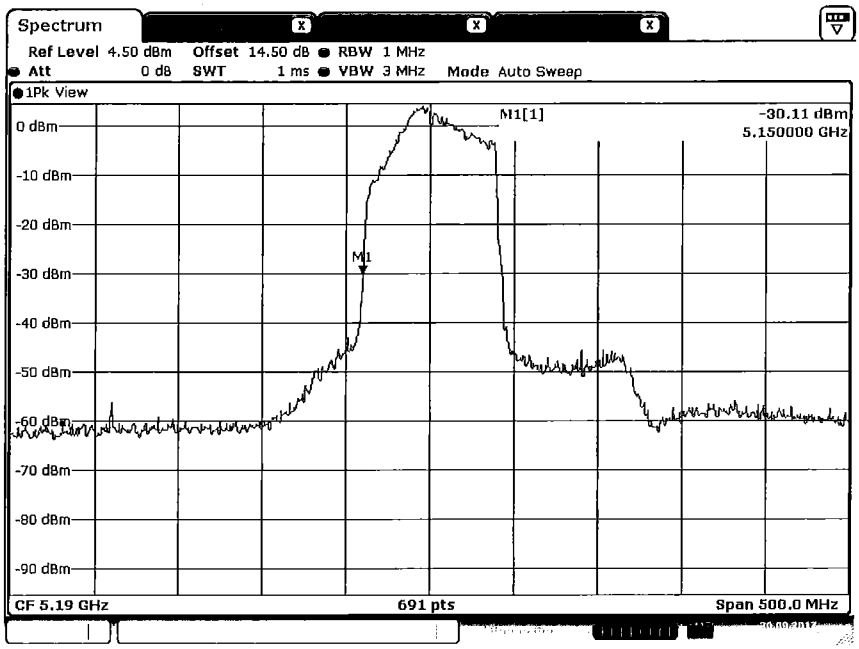
Date: 30.SEP.2017 09:29:31

Plot on Configuration QPSK, 80M / 5190 MHz / Average / Port 2 (TX2)



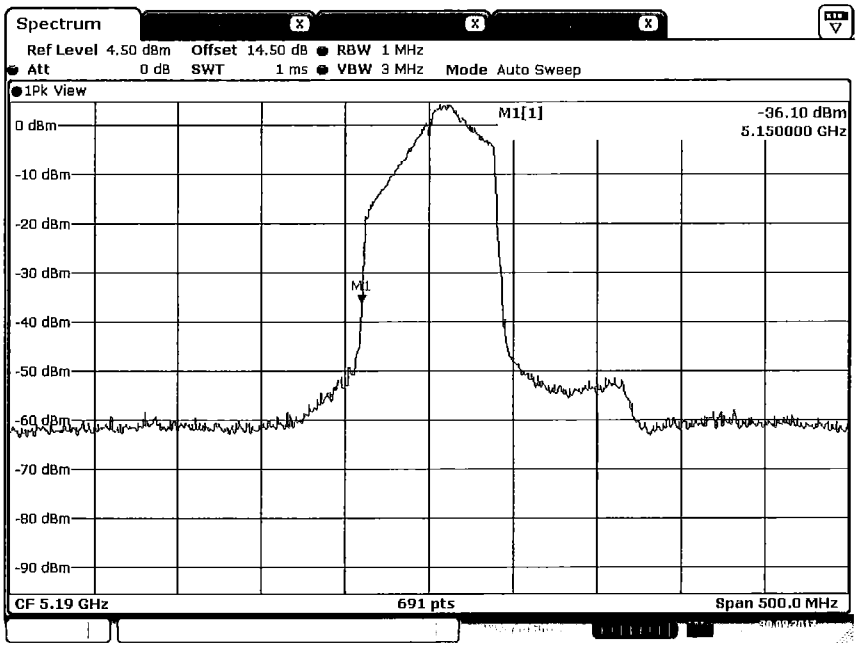
Date: 30.SEP.2017 09:34:42

Plot on Configuration QPSK, 80M / 5190 MHz / Peak / Port 1 (TX1)



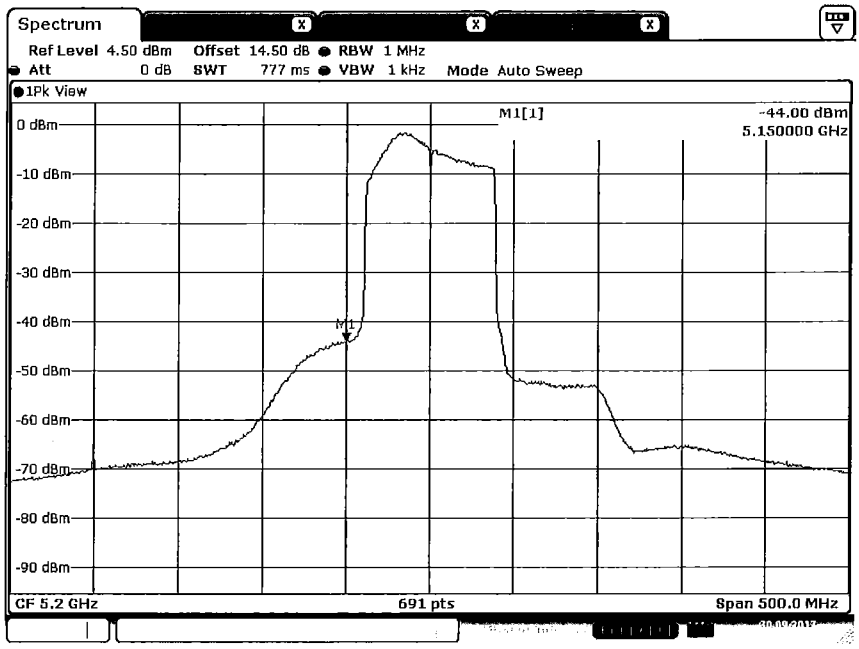
Date: 30.SEP.2017 10:24:38

Plot on Configuration QPSK, 80M / 5190 MHz / Peak / Port 2 (TX2)



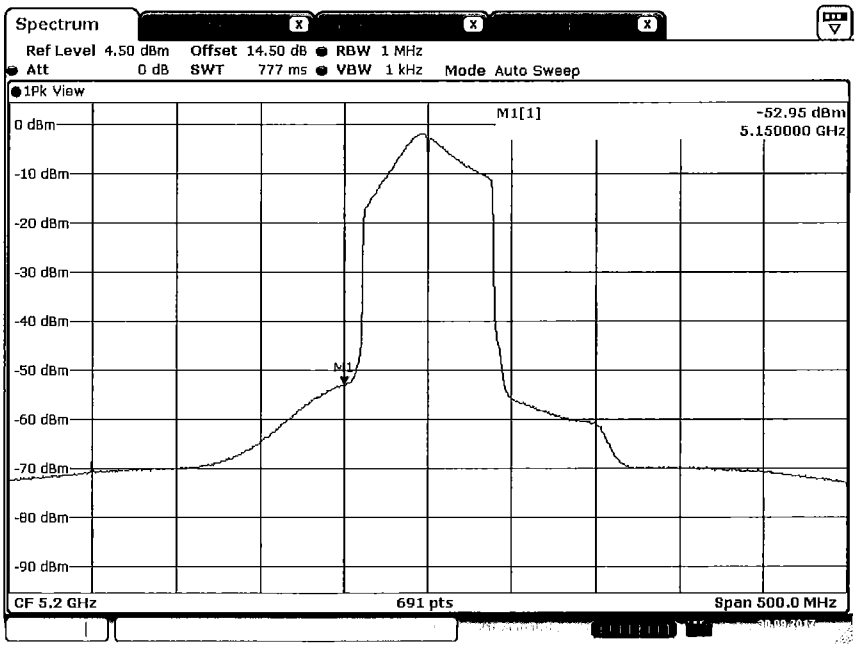
Date: 30.SEP.2017 10:25:52

Plot on Configuration QPSK, 80M / 5200 MHz / Average / Port 1 (TX1)



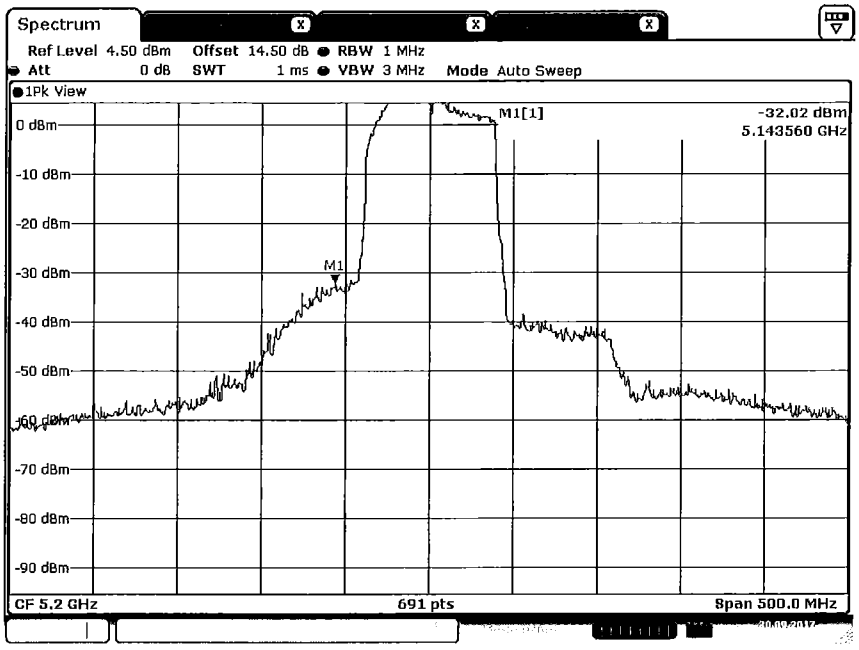
Date: 30.SEP.2017 09:50:19

Plot on Configuration QPSK, 80M / 5200 MHz / Average / Port 2 (TX2)



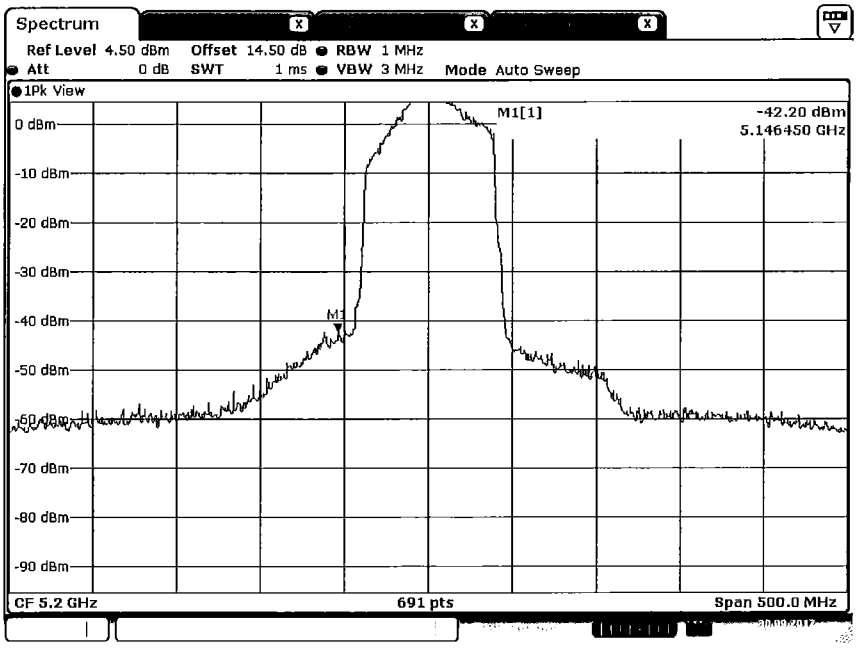
Date: 30.SEP.2017 09:53:57

Plot on Configuration QPSK, 80M / 5200 MHz / Peak / Port 1 (TX1)



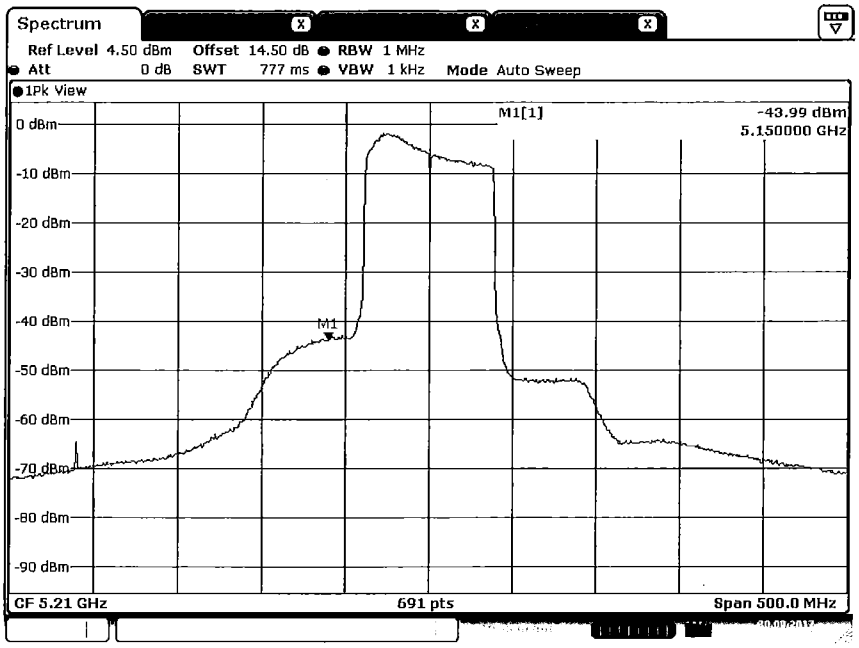
Date: 30.SEP.2017 10:22:17

Plot on Configuration QPSK, 80M / 5200 MHz / Peak / Port 2 (TX2)



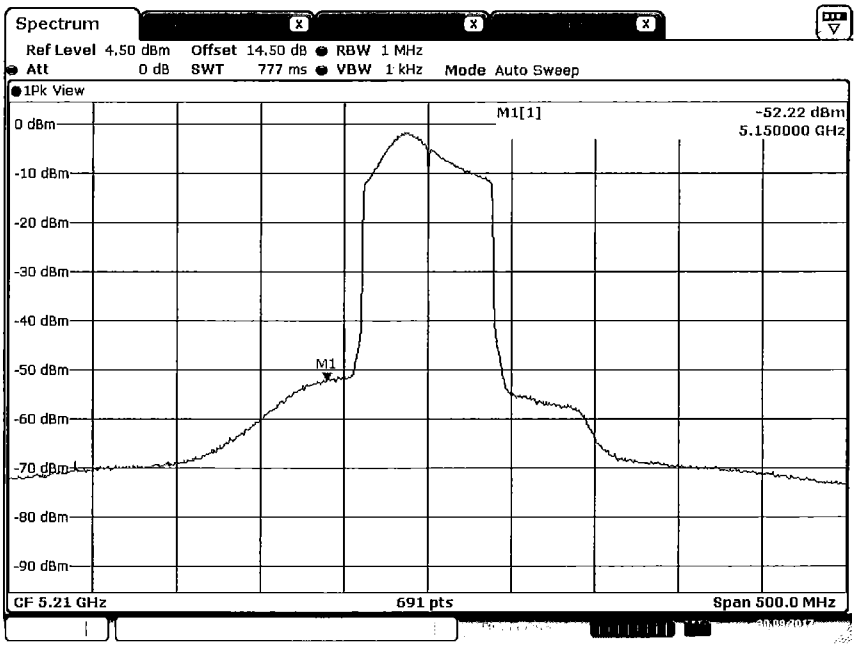
Date: 30.SEP.2017 10:19:35

Plot on Configuration QPSK, 80M / 5210 MHz / Average / Port 1 (TX1)



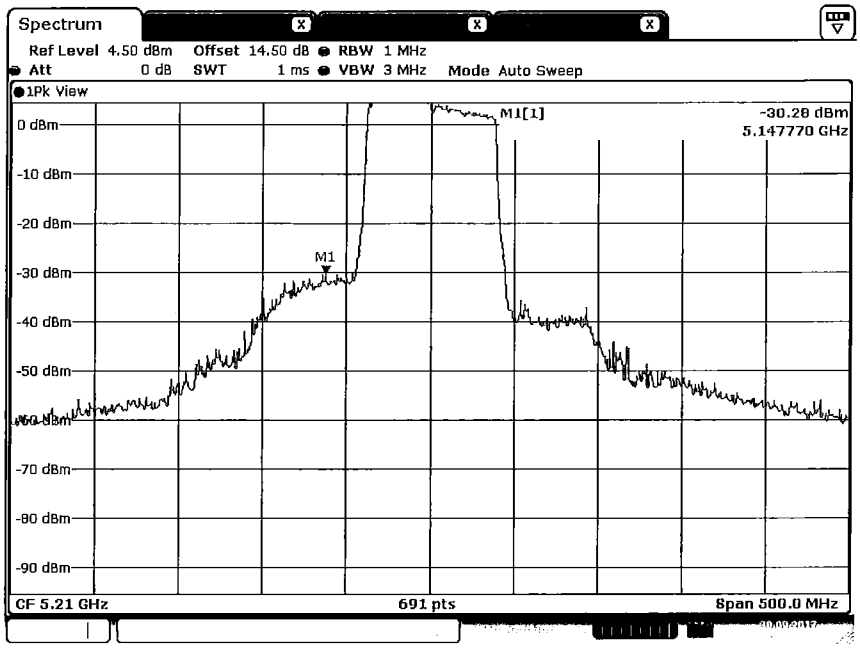
Date: 30.SEP.2017 10:11:05

Plot on Configuration QPSK, 80M / 5210 MHz / Average / Port 2 (TX2)



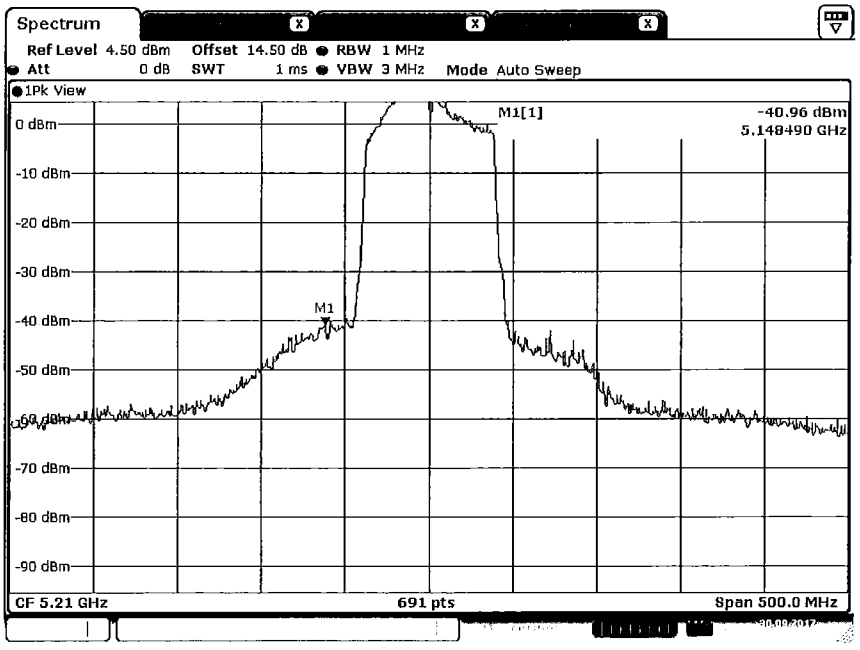
Date: 30.SEP.2017 10:09:48

Plot on Configuration QPSK, 80M / 5210 MHz / Peak / Port 1 (TX1)



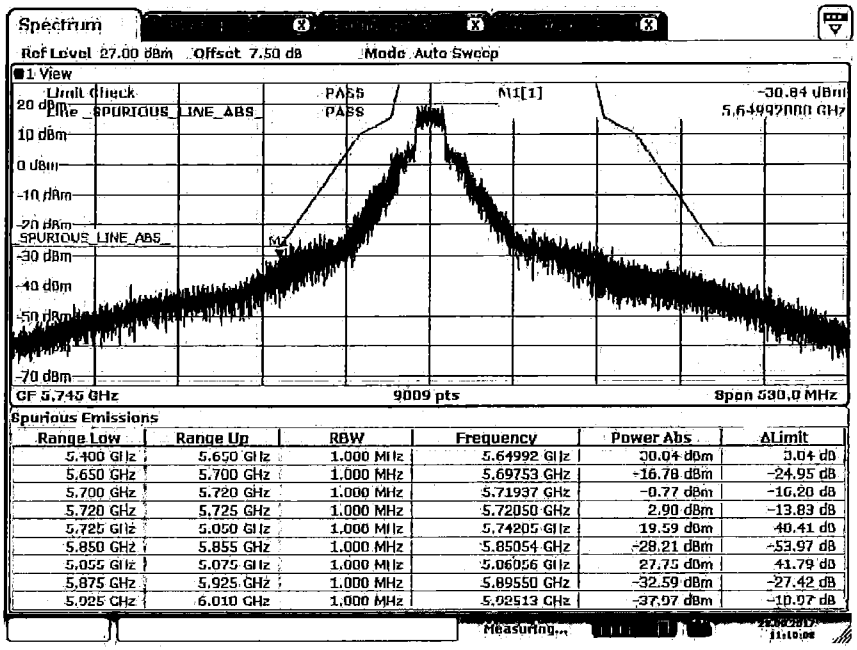
Date: 30.SEP.2017 10:13:50

Plot on Configuration QPSK, 80M / 5210 MHz / Peak / Port 2 (TX2)



Date: 30.SEP.2017 10:15:24

Plot on Configuration QPSK, 20M / 5745 MHz / Peak / Port 1 (TX1)

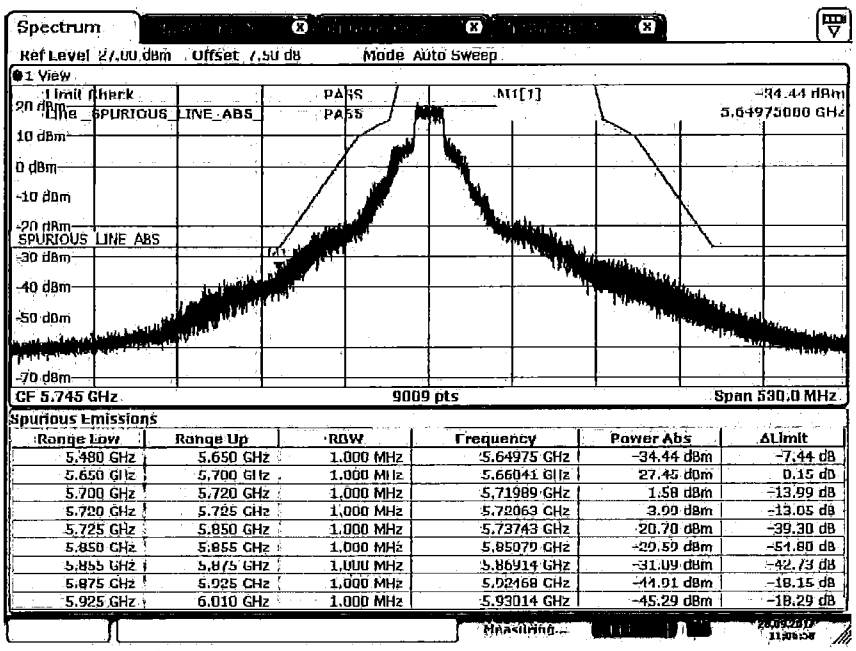


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.400 GHz	5.650 GHz	1.000 MHz	5.64992 GHz	30.04 dBm	5.04 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.69753 GHz	-16.78 dBm	-24.95 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.71937 GHz	-0.77 dBm	-16.20 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72050 GHz	2.90 dBm	-13.83 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.74205 GHz	19.59 dBm	40.41 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85054 GHz	-28.21 dBm	-53.97 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.86056 GHz	27.75 dBm	41.79 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.89550 GHz	-32.59 dBm	-27.42 dB
5.925 GHz	6.010 GHz	1.000 MHz	5.92513 GHz	-37.97 dBm	-10.97 dB

Date: 28.SEP.2017 11:10:08

Plot on Configuration QPSK, 20M / 5745 MHz / Peak / Port 2 (TX2)

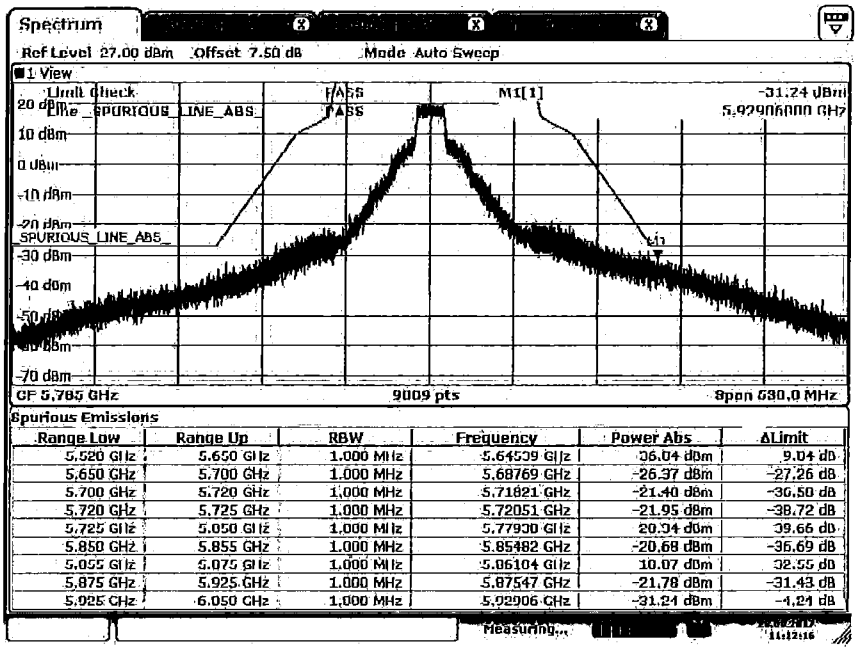


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.480 GHz	5.650 GHz	1.000 MHz	5.64975 GHz	-34.44 dBm	-7.44 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.66041 GHz	27.45 dBm	0.15 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.71989 GHz	1.58 dBm	-13.99 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72063 GHz	3.99 dBm	-13.05 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.73743 GHz	20.70 dBm	-39.30 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85079 GHz	-29.59 dBm	-54.80 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.86914 GHz	-31.09 dBm	-42.73 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92468 GHz	-44.91 dBm	-18.15 dB
5.925 GHz	6.010 GHz	1.000 MHz	5.93014 GHz	-45.29 dBm	-18.29 dB

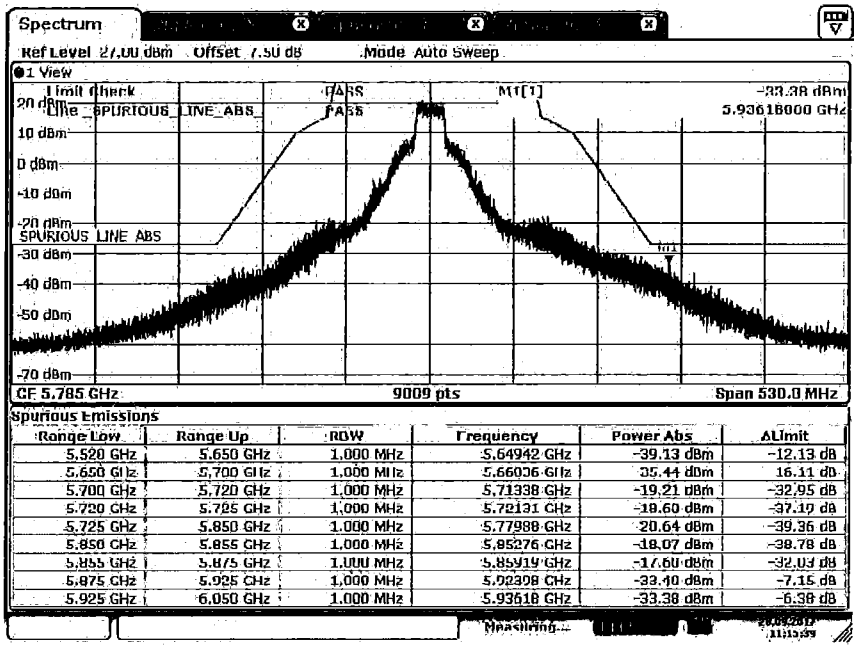
Date: 28.SEP.2017 11:06:58

Plot on Configuration QPSK, 20M / 5785 MHz / Peak / Port 1 (TX1)



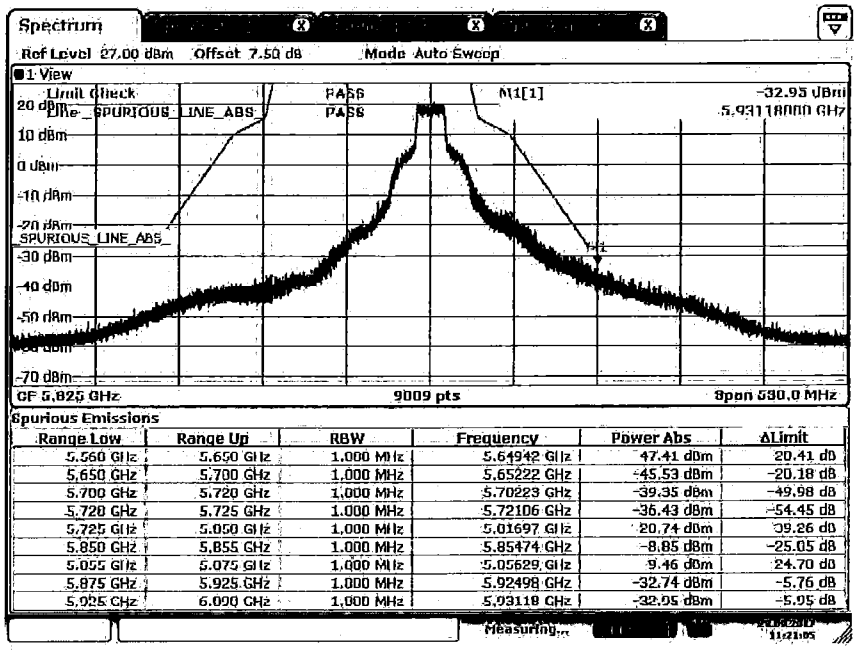
Date: 28.SEP.2017 11:12:17

Plot on Configuration QPSK, 20M / 5785 MHz / Peak / Port 2 (TX2)



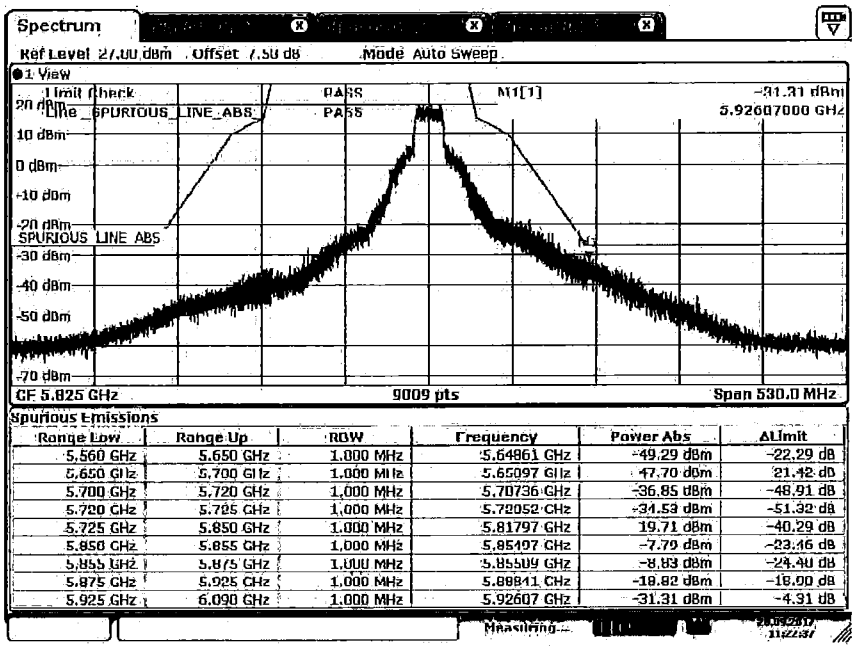
Date: 28.SEP.2017 11:15:39

Plot on Configuration QPSK, 20M / 5825 MHz / Peak / Port 1 (TX1)



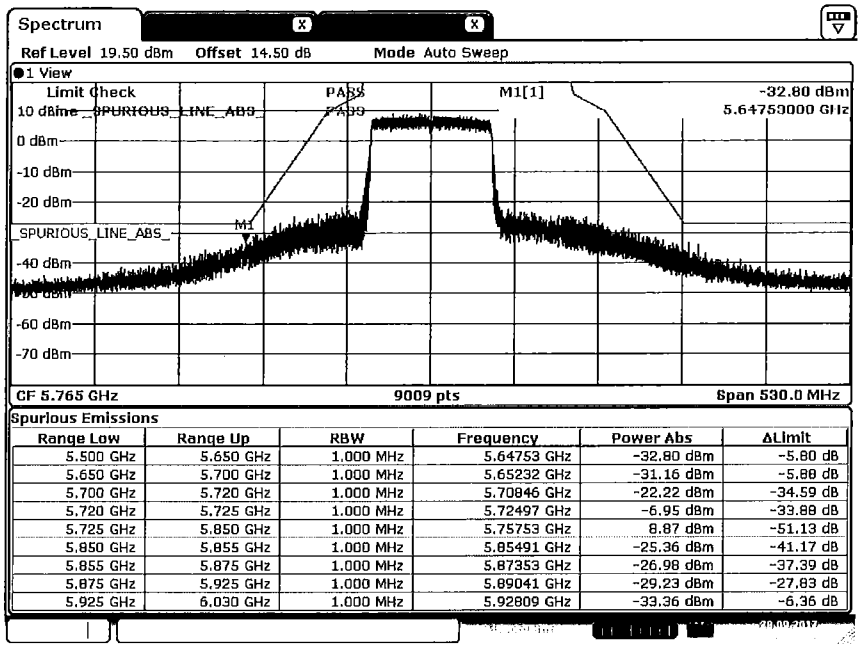
Date: 28.SEP.2017 11:21:05

Plot on Configuration QPSK, 20M / 5825 MHz / Peak / Port 2 (TX2)



Date: 28.SEP.2017 11:22:37

Plot on Configuration QPSK, 80M / 5765 MHz / Peak / Port 1 (TX1)

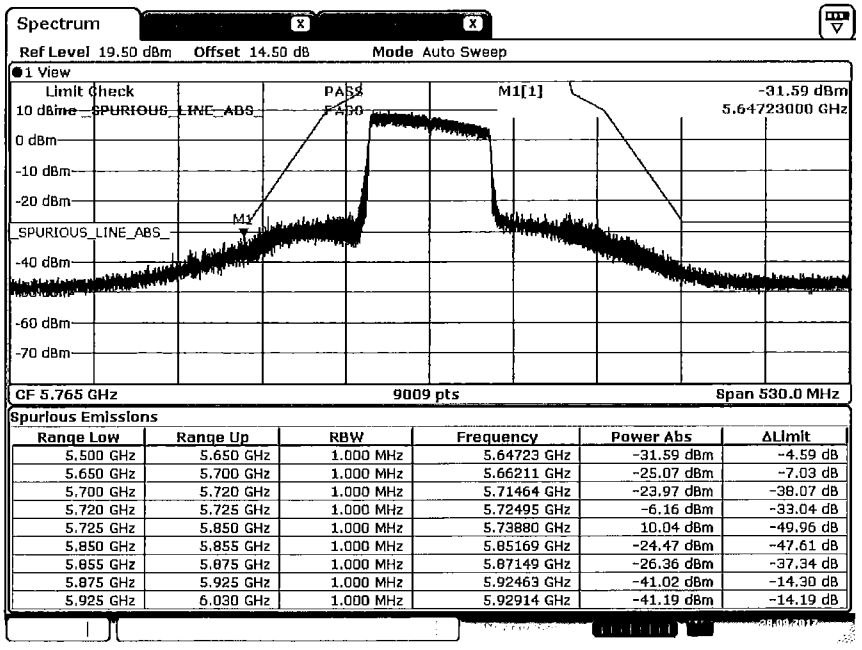


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.500 GHz	5.650 GHz	1.000 MHz	5.64753 GHz	-32.80 dBm	-5.80 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65232 GHz	-31.16 dBm	-5.80 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70846 GHz	-22.22 dBm	-34.59 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72497 GHz	-6.95 dBm	-33.88 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.75753 GHz	8.87 dBm	-51.13 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85491 GHz	-25.36 dBm	-41.17 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87353 GHz	-26.98 dBm	-37.39 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.89041 GHz	-29.23 dBm	-27.83 dB
5.925 GHz	6.030 GHz	1.000 MHz	5.92809 GHz	-33.36 dBm	-6.36 dB

Date: 28.SEP.2017 16:37:26

Plot on Configuration QPSK, 80M / 5765 MHz / Peak / Port 2 (TX2)

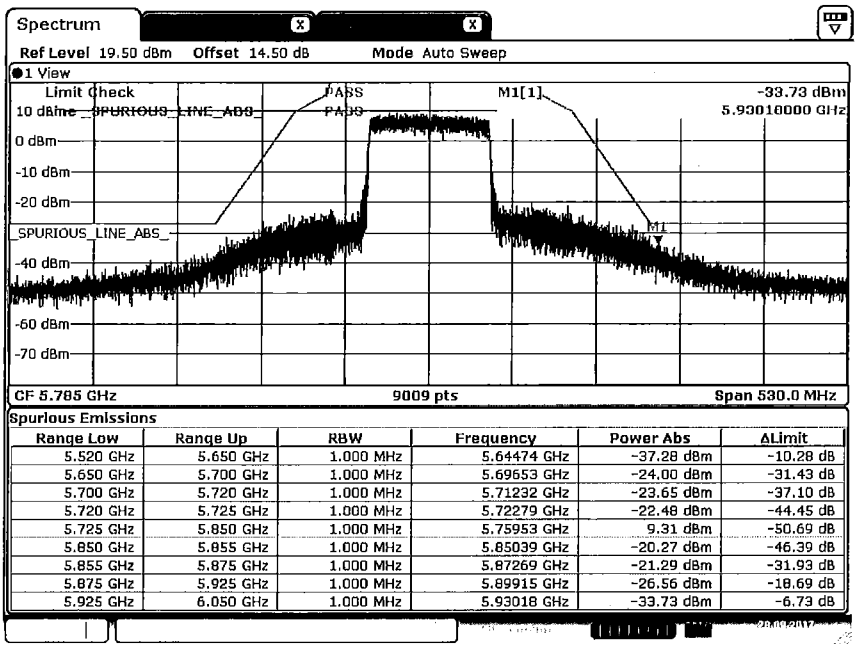


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.500 GHz	5.650 GHz	1.000 MHz	5.64723 GHz	-31.59 dBm	-4.59 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.66211 GHz	-25.07 dBm	-7.03 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.71464 GHz	-23.97 dBm	-38.07 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72495 GHz	-6.16 dBm	-33.04 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.73880 GHz	10.04 dBm	-49.96 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85169 GHz	-24.47 dBm	-47.61 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87149 GHz	-26.36 dBm	-37.34 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92463 GHz	-41.02 dBm	-14.30 dB
5.925 GHz	6.030 GHz	1.000 MHz	5.92914 GHz	-41.19 dBm	-14.19 dB

Date: 28.SEP.2017 16:39:21

Plot on Configuration QPSK, 80M / 5785 MHz / Peak / Port 1 (TX1)

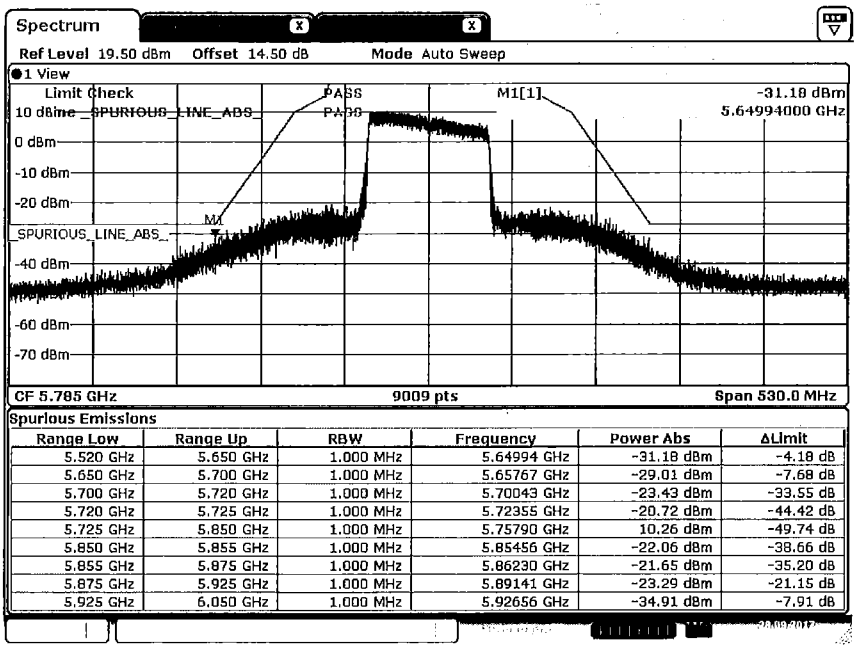


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.520 GHz	5.650 GHz	1.000 MHz	5.64474 GHz	-37.28 dBm	-10.28 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.69653 GHz	-24.00 dBm	-31.43 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.71232 GHz	-23.65 dBm	-37.10 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72279 GHz	-22.48 dBm	-44.45 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.75953 GHz	9.31 dBm	-50.69 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85039 GHz	-20.27 dBm	-46.39 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87269 GHz	-21.29 dBm	-31.93 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.89915 GHz	-26.56 dBm	-18.69 dB
5.925 GHz	6.050 GHz	1.000 MHz	5.93018 GHz	-33.73 dBm	-6.73 dB

Date: 28.SEP.2017 16:43:24

Plot on Configuration QPSK, 80M / 5785 MHz / Peak / Port 2 (TX2)

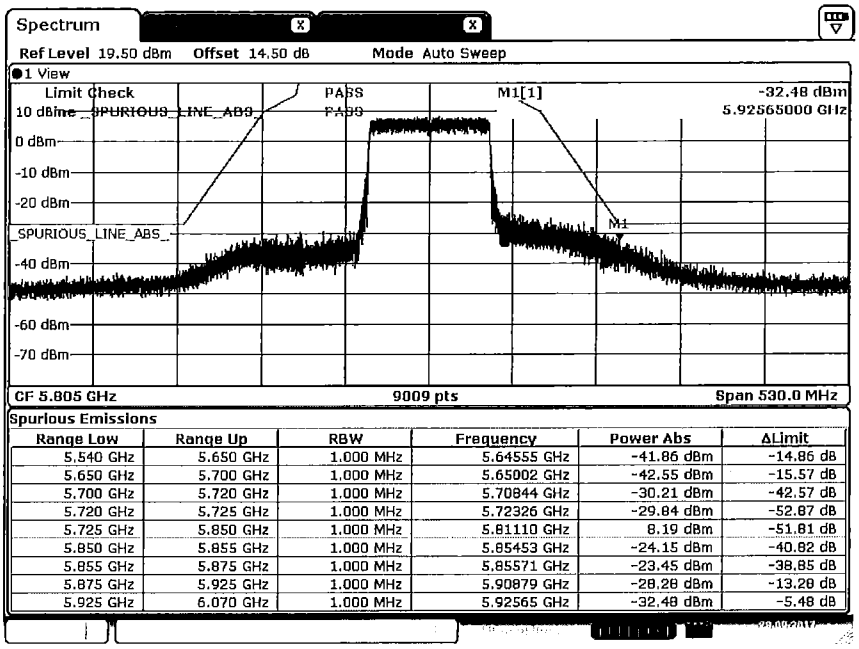


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.520 GHz	5.650 GHz	1.000 MHz	5.64994 GHz	-31.18 dBm	-4.18 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65767 GHz	-29.01 dBm	-7.68 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70043 GHz	-23.43 dBm	-33.55 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72355 GHz	-20.72 dBm	-44.42 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.75790 GHz	10.26 dBm	-49.74 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85456 GHz	-22.06 dBm	-38.66 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.86230 GHz	-21.65 dBm	-35.20 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.89141 GHz	-23.29 dBm	-21.15 dB
5.925 GHz	6.050 GHz	1.000 MHz	5.92656 GHz	-34.91 dBm	-7.91 dB

Date: 28.SEP.2017 16:40:59

Plot on Configuration QPSK, 80M / 5805 MHz / Peak / Port 1 (TX1)

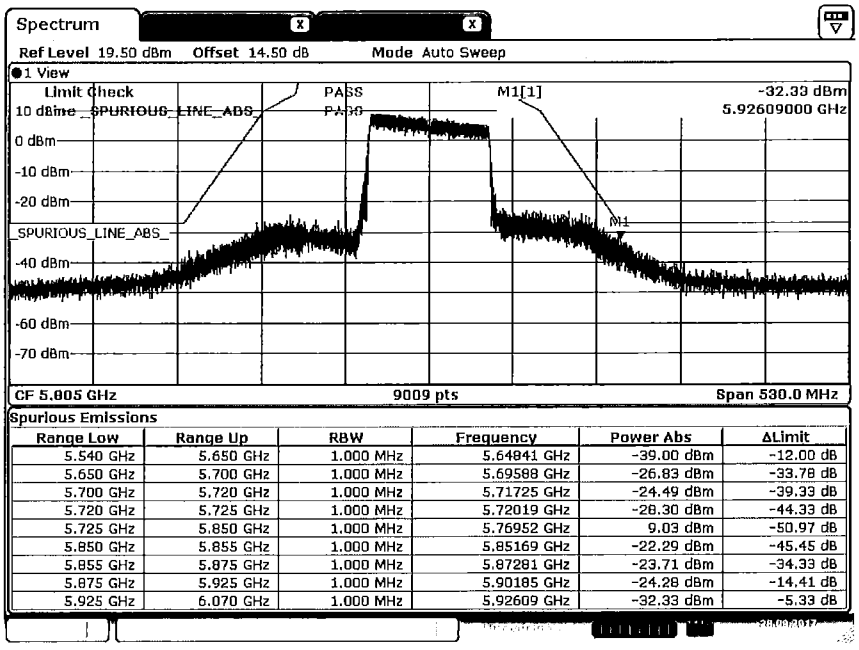


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.540 GHz	5.650 GHz	1.000 MHz	5.64555 GHz	-41.86 dBm	-14.86 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65002 GHz	-42.55 dBm	-15.57 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70844 GHz	-30.21 dBm	-42.57 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72326 GHz	-29.84 dBm	-52.87 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.81110 GHz	8.19 dBm	-51.81 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85453 GHz	-24.15 dBm	-40.82 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.85571 GHz	-23.45 dBm	-38.85 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.90879 GHz	-28.28 dBm	-13.28 dB
5.925 GHz	6.070 GHz	1.000 MHz	5.92565 GHz	-32.48 dBm	-5.48 dB

Date: 28.SEP.2017 16:45:21

Plot on Configuration QPSK, 80M / 5805 MHz / Peak / Port 2 (TX2)



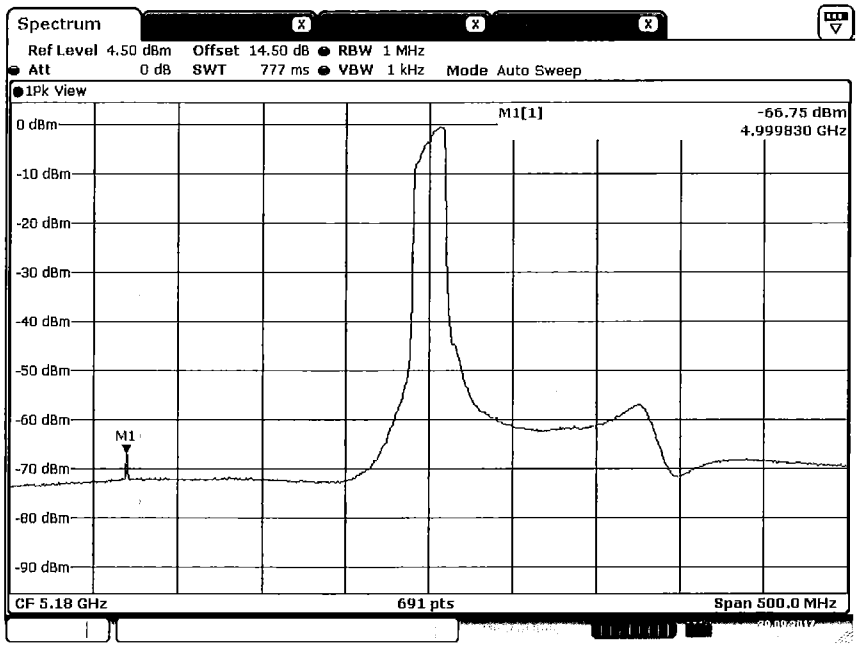
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.540 GHz	5.650 GHz	1.000 MHz	5.64841 GHz	-39.00 dBm	-12.00 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.69588 GHz	-26.83 dBm	-33.78 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.71725 GHz	-24.49 dBm	-39.33 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72019 GHz	-28.30 dBm	-44.33 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.76952 GHz	9.03 dBm	-50.97 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85169 GHz	-22.29 dBm	-45.45 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87281 GHz	-23.71 dBm	-34.33 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.90185 GHz	-24.28 dBm	-14.41 dB
5.925 GHz	6.070 GHz	1.000 MHz	5.92609 GHz	-32.33 dBm	-5.33 dB

Date: 28.SEP.2017 16:47:19

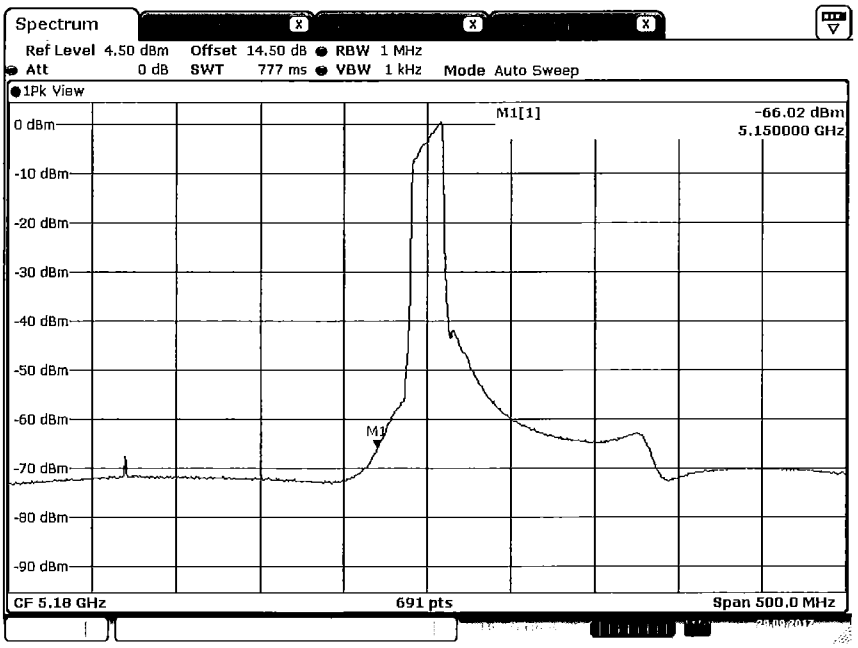
For Antenna 2:

Plot on Configuration QPSK, 20M / 5180 MHz / Average / Port 1 (TX1)



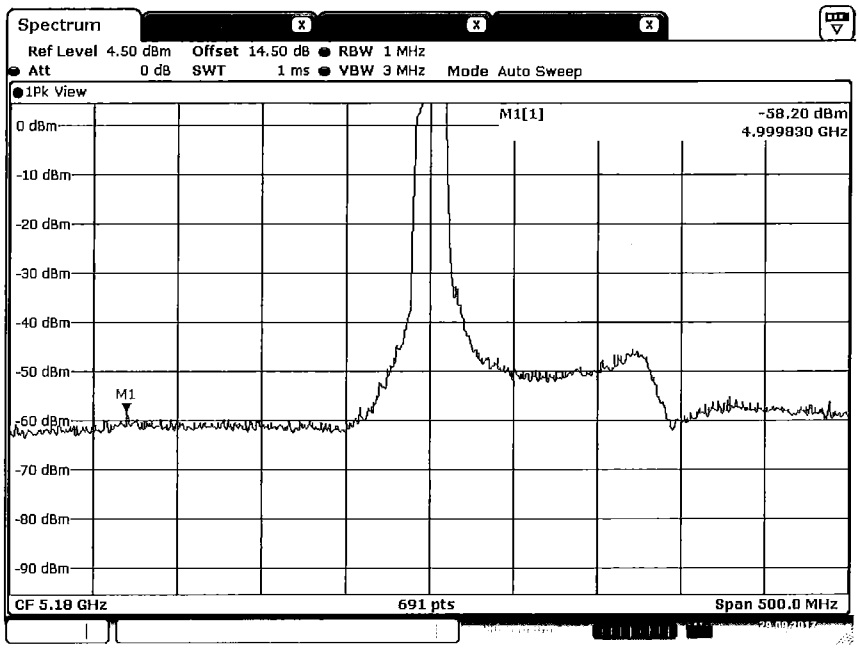
Date: 29.SEP.2017 14:41:58

Plot on Configuration QPSK, 20M / 5180 MHz / Average / Port 2 (TX2)



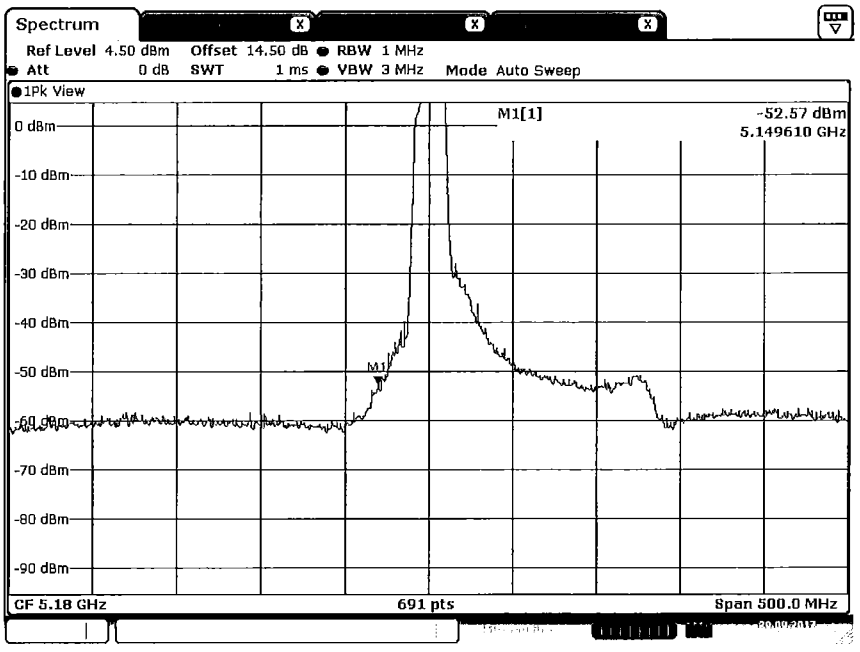
Date: 29.SEP.2017 14:40:37

Plot on Configuration QPSK, 20M / 5180 MHz / Peak / Port 1 (TX1)



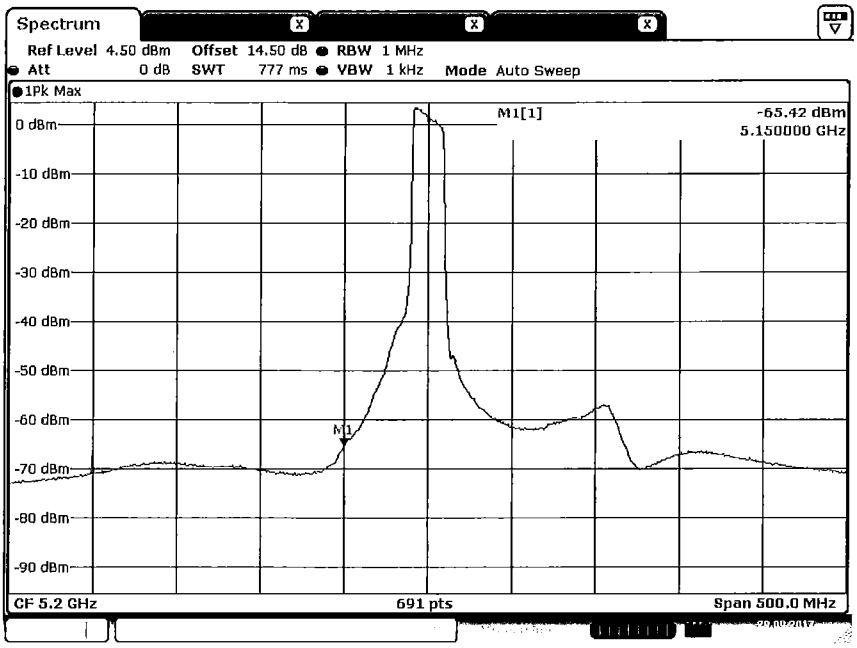
Date: 29.SEP.2017 14:44:40

Plot on Configuration QPSK, 20M / 5180 MHz / Peak / Port 2 (TX2)



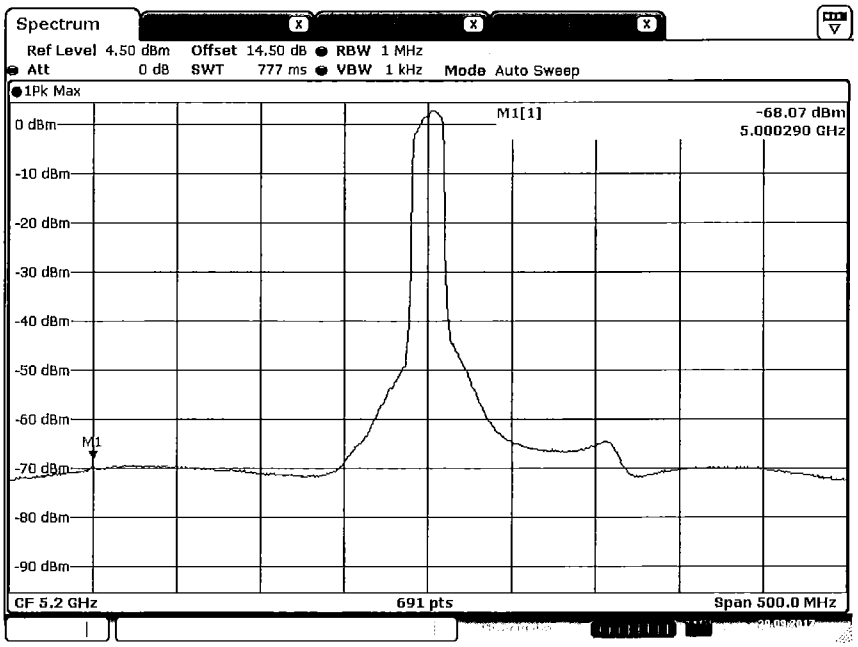
Date: 29.SEP.2017 14:45:44

Plot on Configuration QPSK, 20M / 5200 MHz / Average / Port 1 (TX1)



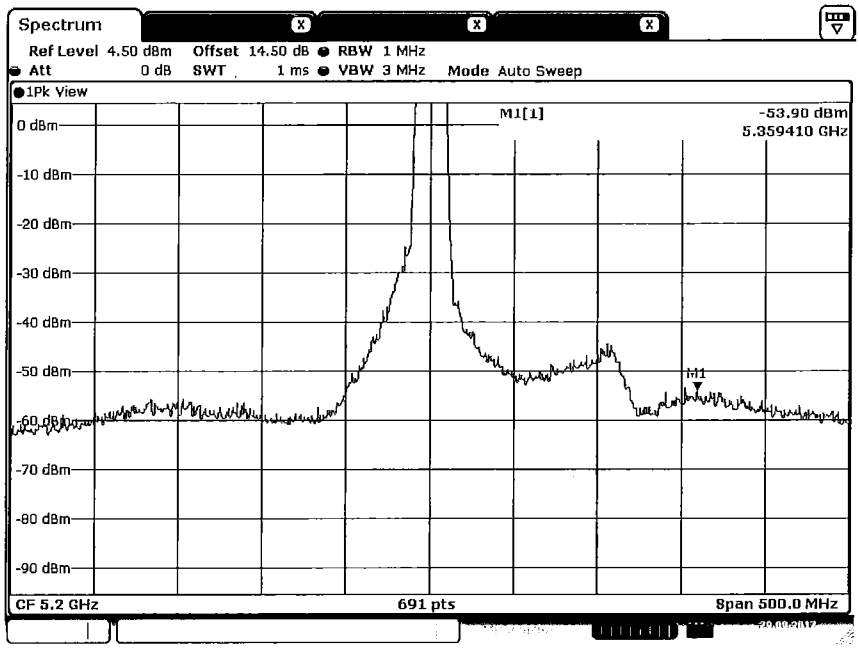
Date: 29.SEP.2017 15:52:39

Plot on Configuration QPSK, 20M / 5200 MHz / Average / Port 2 (TX2)



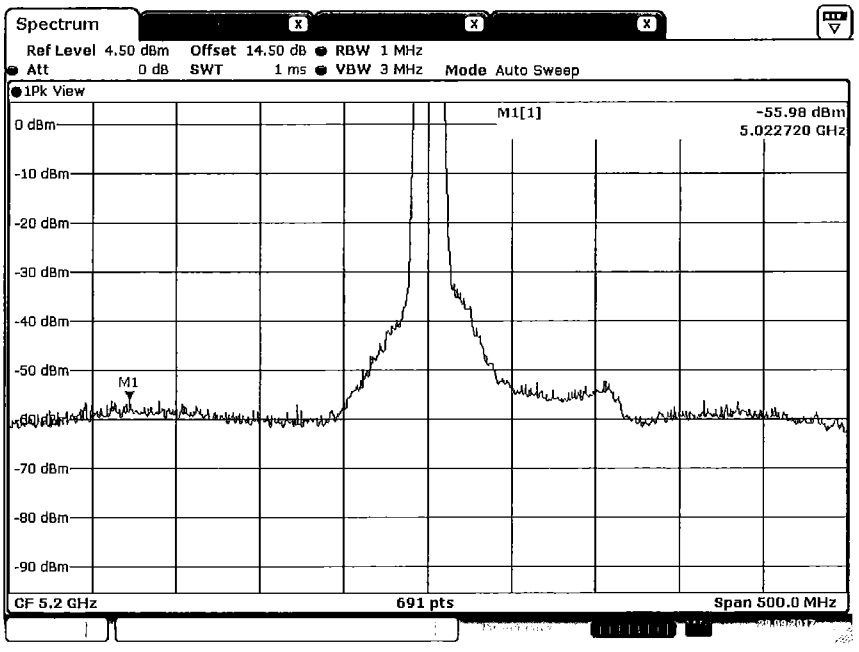
Date: 29.SEP.2017 15:53:31

Plot on Configuration QPSK, 20M / 5200 MHz / Peak / Port 1 (TX1)



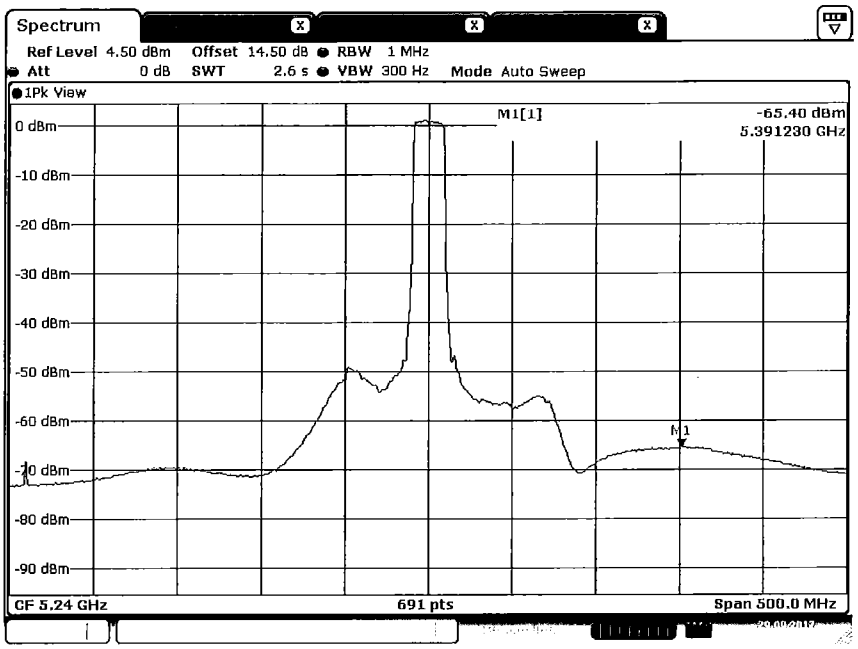
Date: 29.SEP.2017 15:56:23

Plot on Configuration QPSK, 20M / 5200 MHz / Peak / Port 2 (TX2)



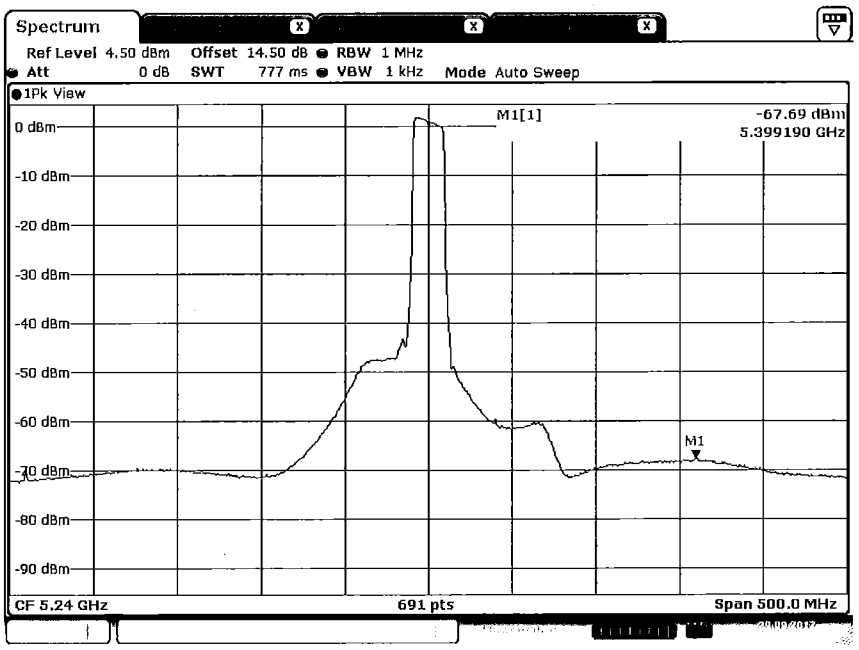
Date: 29.SEP.2017 15:55:07

Plot on Configuration QPSK, 20M / 5240 MHz / Average / Port 1 (TX1)



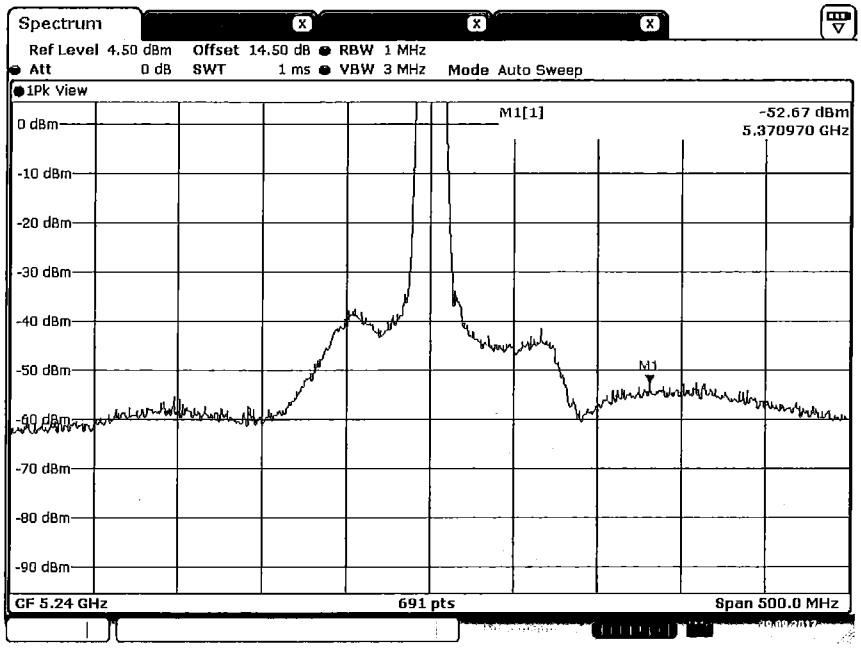
Date: 29.SEP.2017 16:11:15

Plot on Configuration QPSK, 20M / 5240 MHz / Average / Port 2 (TX2)



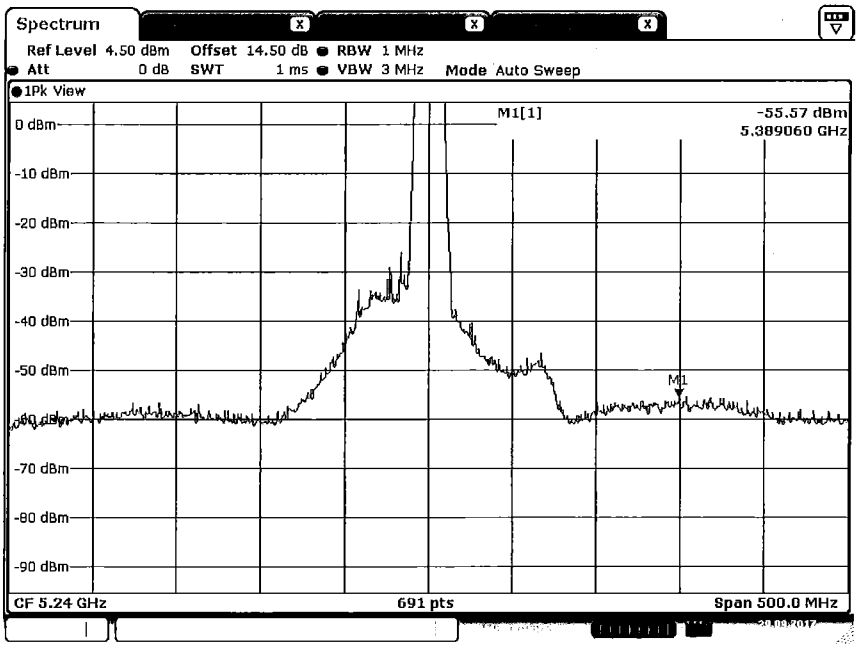
Date: 29.SEP.2017 16:08:49

Plot on Configuration QPSK, 20M / 5240 MHz / Peak / Port 1 (TX1)



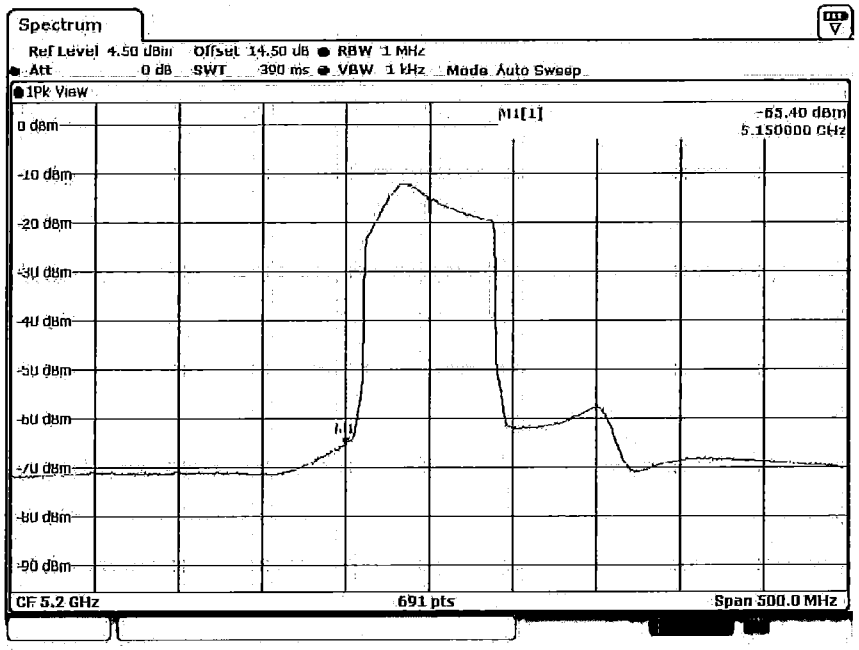
Date: 29.SEP.2017 16:12:05

Plot on Configuration QPSK, 20M / 5240 MHz / Peak / Port 2 (TX2)



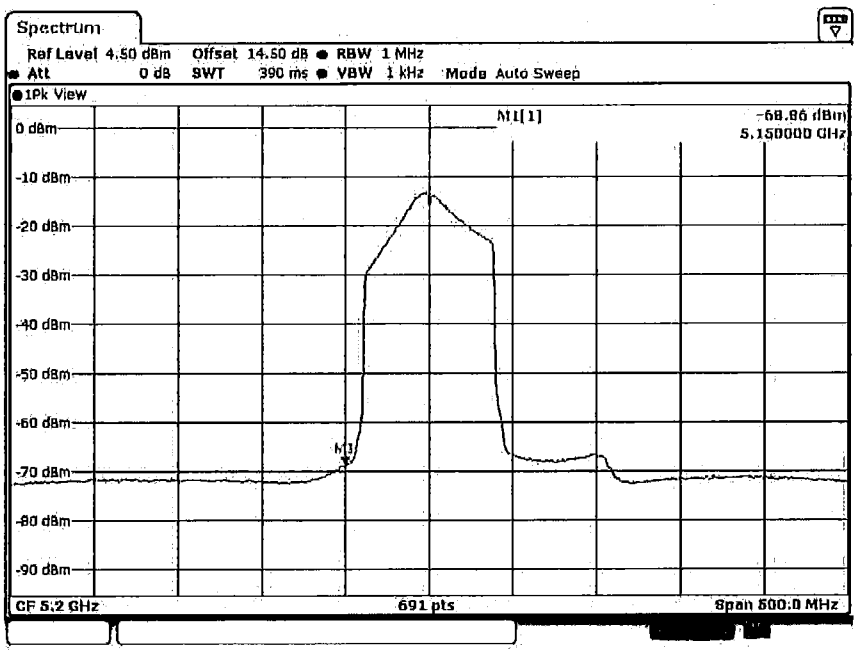
Date: 29.SEP.2017 16:14:46

Plot on Configuration QPSK, 80M / 5200 MHz / Average / Port 1 (TX1)



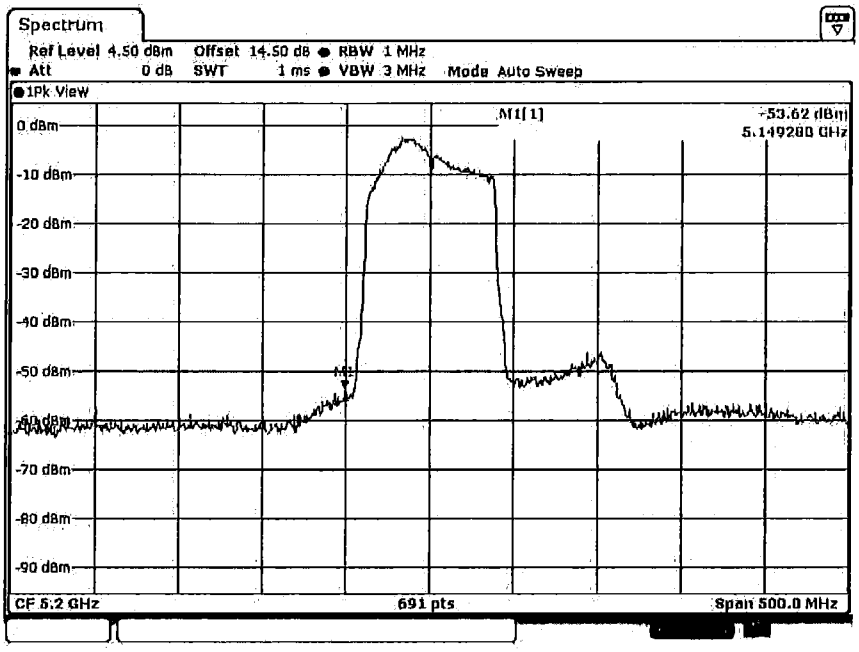
Date: 2.OCT.2017 23:08:49

Plot on Configuration QPSK, 80M / 5200 MHz / Average / Port 2 (TX2)



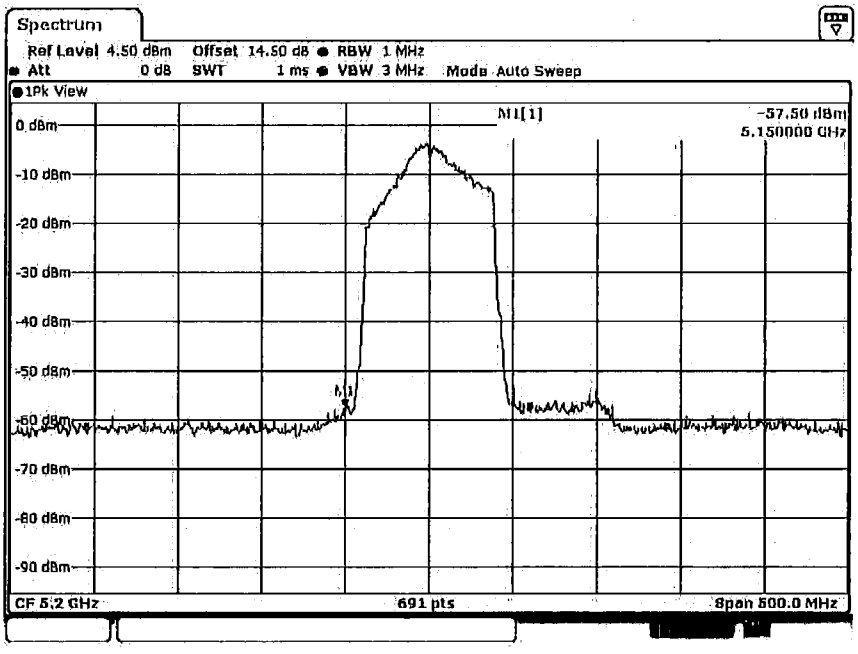
Date: 2.OCT.2017 23:09:57

Plot on Configuration QPSK, 80M / 5200 MHz / Peak / Port 1 (TX1)



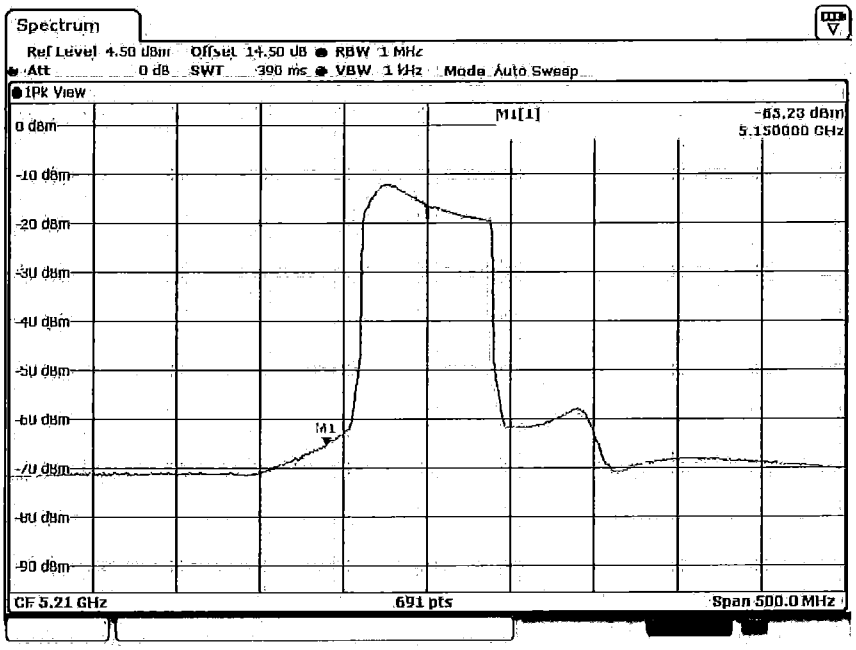
Date: 2.OCT.2017 23:11:56

Plot on Configuration QPSK, 80M / 5200 MHz / Peak / Port 2 (TX2)



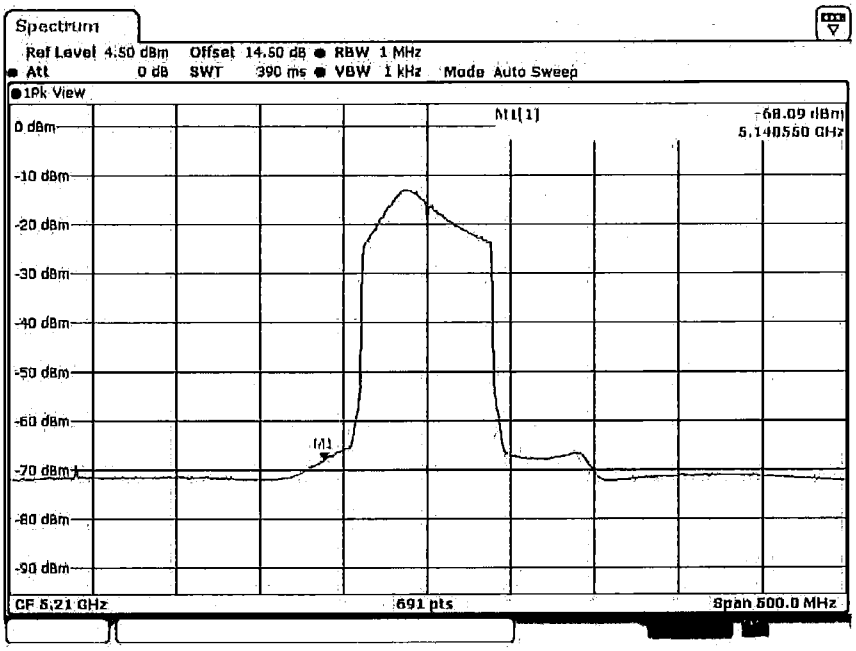
Date: 2.OCT.2017 23:11:17

Plot on Configuration QPSK, 80M / 5210 MHz / Average / Port 1 (TX1)



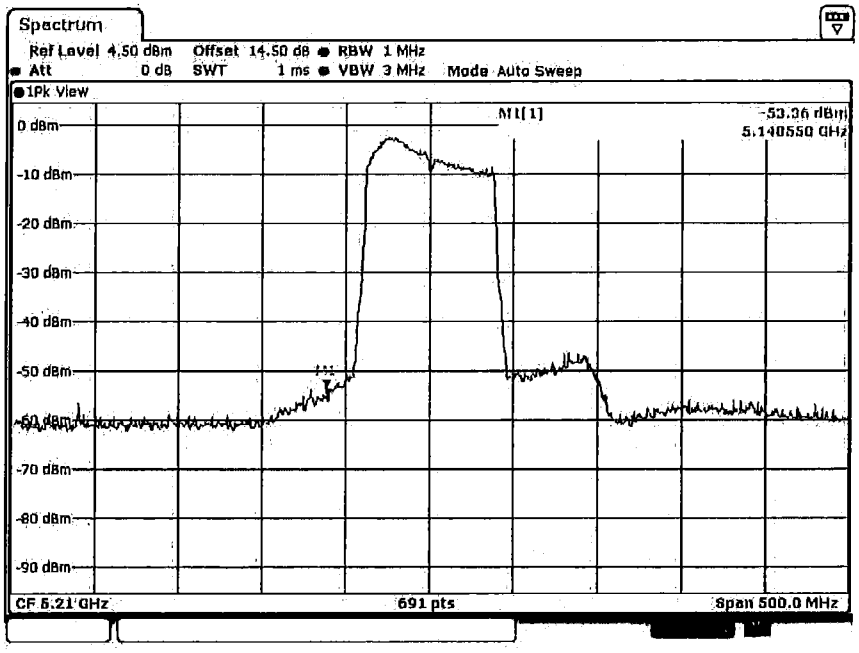
Date: 2.OCT.2017 23:16:55

Plot on Configuration QPSK, 80M / 5210 MHz / Average / Port 2 (TX2)



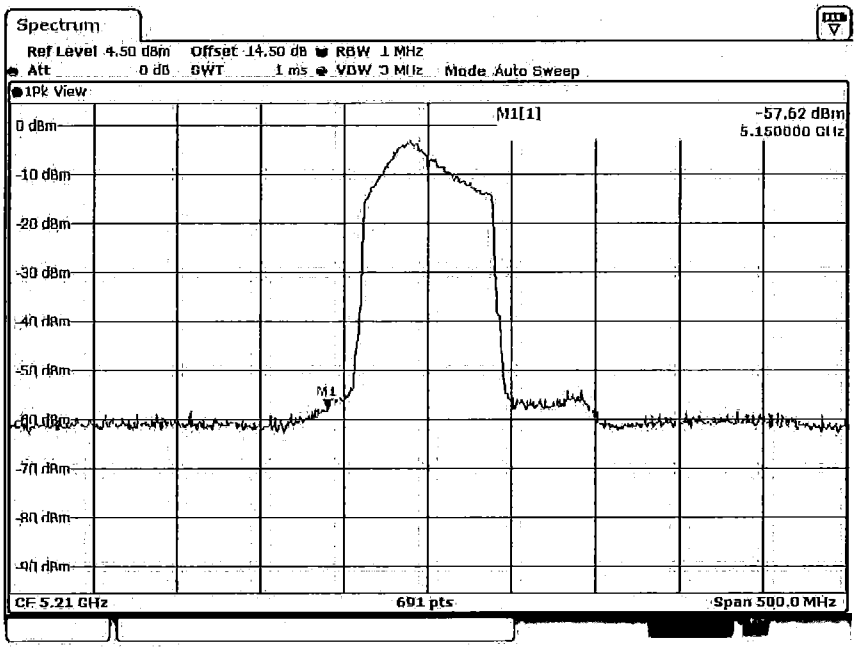
Date: 2.OCT.2017 23:18:29

Plot on Configuration QPSK, 80M / 5210 MHz / Peak / Port 1 (TX1)



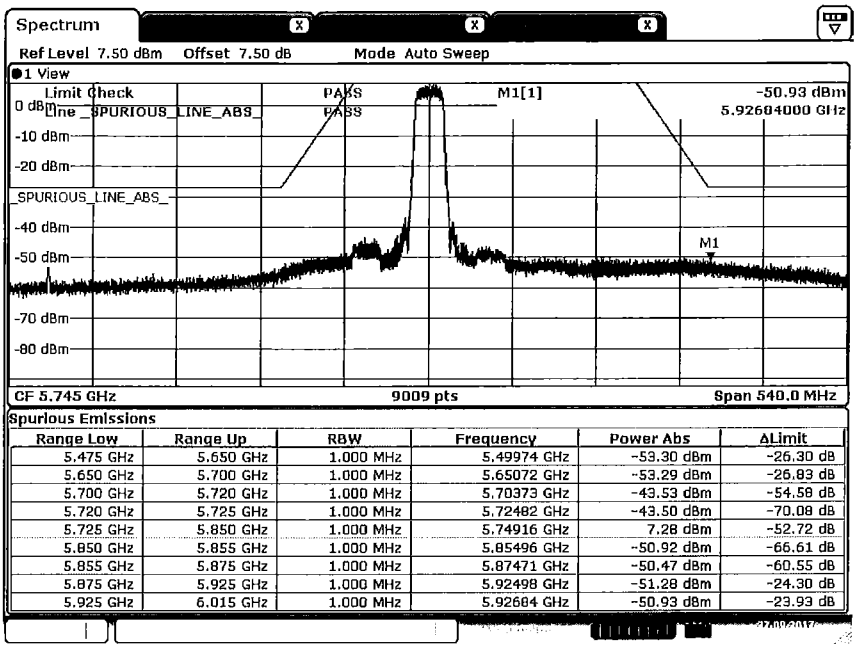
Date: 2.OCT.2017 23:17:18

Plot on Configuration QPSK, 80M / 5210 MHz / Peak / Port 2 (TX2)



Date: 2.OCT.2017 23:15:43

Plot on Configuration QPSK, 20M / 5745 MHz / Peak / Port 1 (TX1)

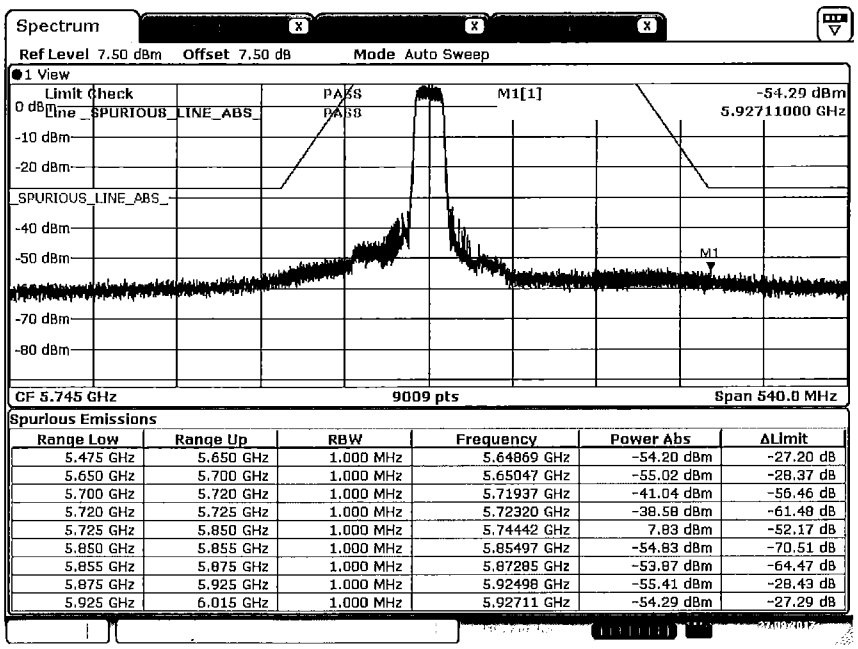


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.475 GHz	5.650 GHz	1.000 MHz	5.49974 GHz	-53.30 dBm	-26.30 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65072 GHz	-53.29 dBm	-26.83 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70373 GHz	-43.53 dBm	-54.58 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72482 GHz	-43.50 dBm	-70.08 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.74916 GHz	7.28 dBm	-52.72 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85496 GHz	-50.92 dBm	-66.61 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87471 GHz	-50.47 dBm	-60.55 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92498 GHz	-51.28 dBm	-24.30 dB
5.925 GHz	6.015 GHz	1.000 MHz	5.92604 GHz	-50.93 dBm	-23.93 dB

Date: 27.SEP.2017 22:53:22

Plot on Configuration QPSK, 20M / 5745 MHz / Peak / Port 2 (TX2)

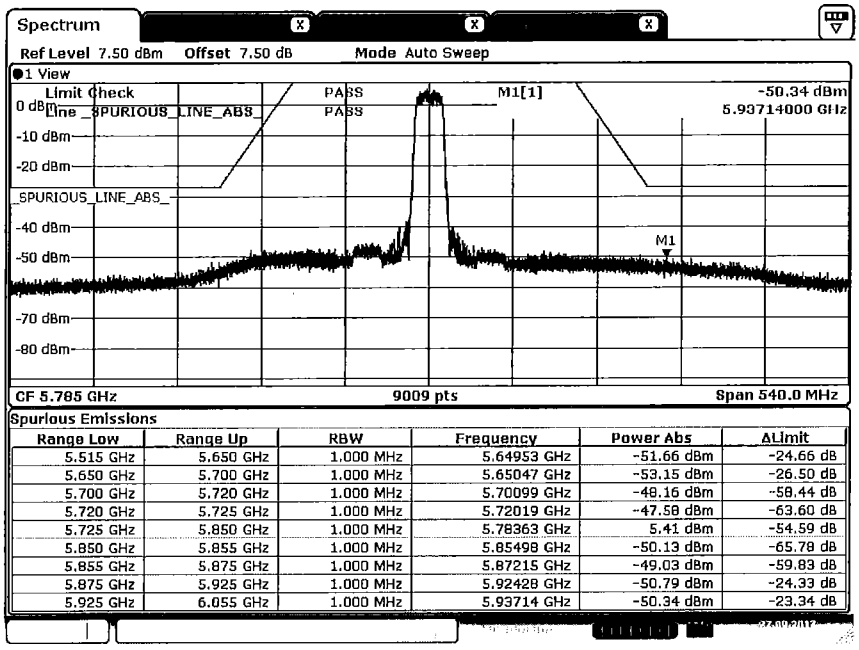


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.475 GHz	5.650 GHz	1.000 MHz	5.64869 GHz	-54.20 dBm	-27.20 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65047 GHz	-55.02 dBm	-28.37 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.71937 GHz	-41.04 dBm	-56.46 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72320 GHz	-38.58 dBm	-61.48 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.74442 GHz	7.83 dBm	-52.17 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85497 GHz	-54.83 dBm	-70.51 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87285 GHz	-53.87 dBm	-64.47 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92498 GHz	-55.41 dBm	-28.43 dB
5.925 GHz	6.015 GHz	1.000 MHz	5.92711 GHz	-54.29 dBm	-27.29 dB

Date: 27.SEP.2017 22:48:09

Plot on Configuration QPSK, 20M / 5785 MHz / Peak / Port 1 (TX1)

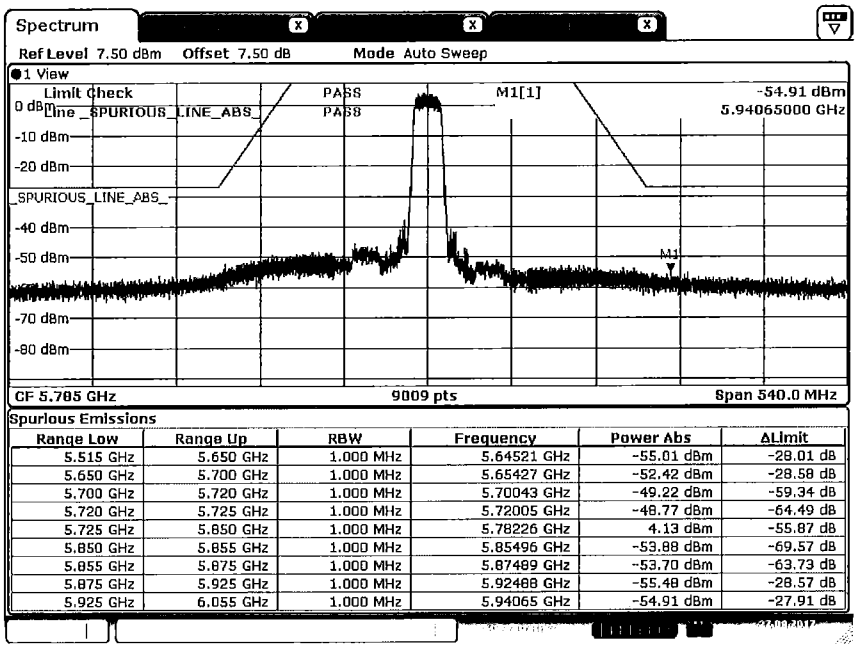


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.515 GHz	5.650 GHz	1.000 MHz	5.64953 GHz	-51.66 dBm	-24.66 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65047 GHz	-53.15 dBm	-26.50 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70099 GHz	-48.16 dBm	-58.44 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72019 GHz	-47.58 dBm	-63.60 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.78363 GHz	5.41 dBm	-54.59 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85498 GHz	-50.13 dBm	-65.78 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87215 GHz	-49.03 dBm	-59.83 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92428 GHz	-50.79 dBm	-24.33 dB
5.925 GHz	6.055 GHz	1.000 MHz	5.93714 GHz	-50.34 dBm	-23.34 dB

Date: 27.SEP.2017 23:48:32

Plot on Configuration QPSK, 20M / 5785 MHz / Peak / Port 2 (TX2)

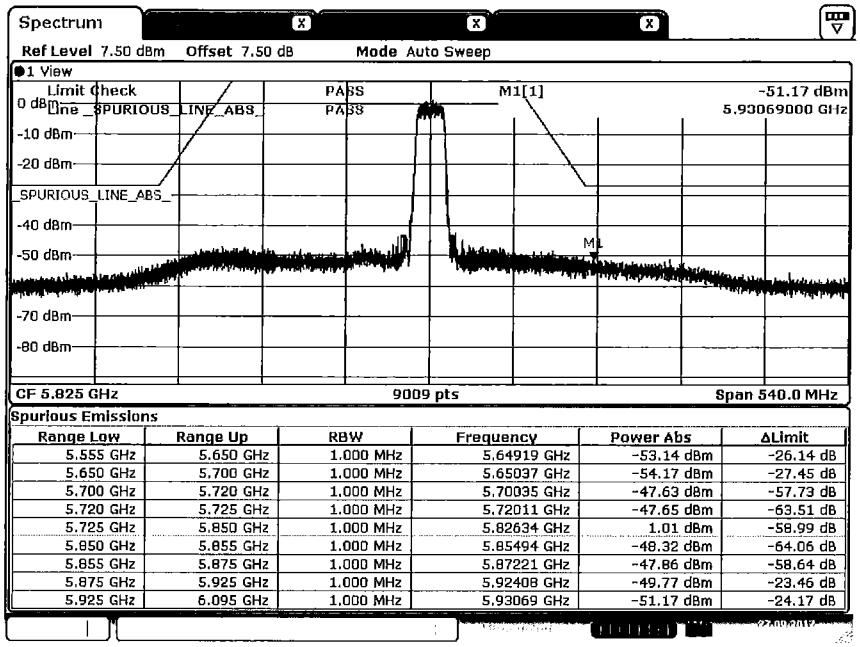


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.515 GHz	5.650 GHz	1.000 MHz	5.64521 GHz	-55.01 dBm	-28.01 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65427 GHz	-52.42 dBm	-28.58 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70043 GHz	-49.22 dBm	-59.34 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72005 GHz	-48.77 dBm	-64.49 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.78226 GHz	4.13 dBm	-55.87 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85496 GHz	-53.88 dBm	-69.57 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87489 GHz	-53.70 dBm	-63.73 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92488 GHz	-55.48 dBm	-28.57 dB
5.925 GHz	6.055 GHz	1.000 MHz	5.94065 GHz	-54.91 dBm	-27.91 dB

Date: 27.SEP.2017 23:45:48

Plot on Configuration QPSK, 20M / 5825 MHz / Peak / Port 1 (TX1)

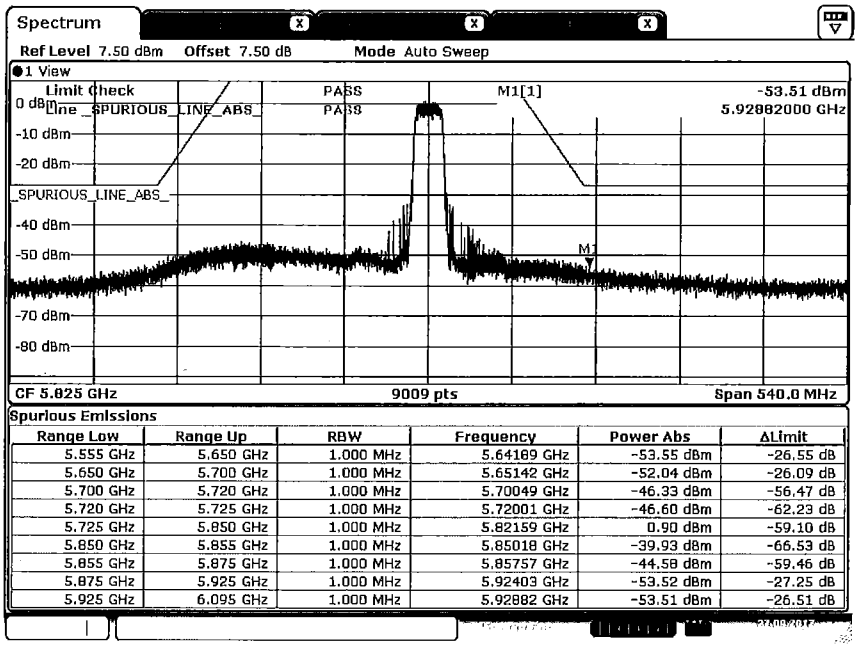


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.555 GHz	5.650 GHz	1.000 MHz	5.64919 GHz	-53.14 dBm	-26.14 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65037 GHz	-54.17 dBm	-27.45 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70035 GHz	-47.63 dBm	-57.73 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72011 GHz	-47.65 dBm	-63.51 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.82634 GHz	1.01 dBm	-58.99 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85494 GHz	-48.32 dBm	-64.06 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87221 GHz	-47.86 dBm	-58.64 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92408 GHz	-49.77 dBm	-23.46 dB
5.925 GHz	6.095 GHz	1.000 MHz	5.93069 GHz	-51.17 dBm	-24.17 dB

Date: 27.SEP.2017 22:36:55

Plot on Configuration QPSK, 20M / 5825 MHz / Peak / Port 2 (TX2)

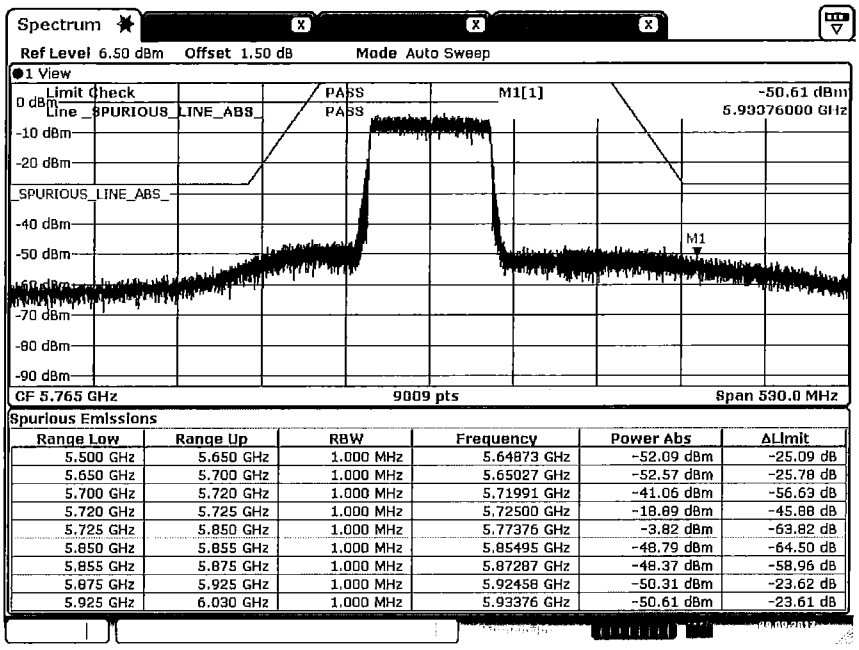


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.555 GHz	5.650 GHz	1.000 MHz	5.64189 GHz	-53.55 dBm	-26.55 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65142 GHz	-52.04 dBm	-26.09 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70049 GHz	-46.33 dBm	-56.47 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72001 GHz	-46.60 dBm	-62.23 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.82159 GHz	0.90 dBm	-59.10 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85018 GHz	-39.93 dBm	-66.53 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.85757 GHz	-44.58 dBm	-59.46 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92403 GHz	-53.52 dBm	-27.25 dB
5.925 GHz	6.095 GHz	1.000 MHz	5.92882 GHz	-53.51 dBm	-26.51 dB

Date: 27.SEP.2017 22:34:45

Plot on Configuration QPSK, 80M / 5765 MHz / Peak / Port 1 (TX1)

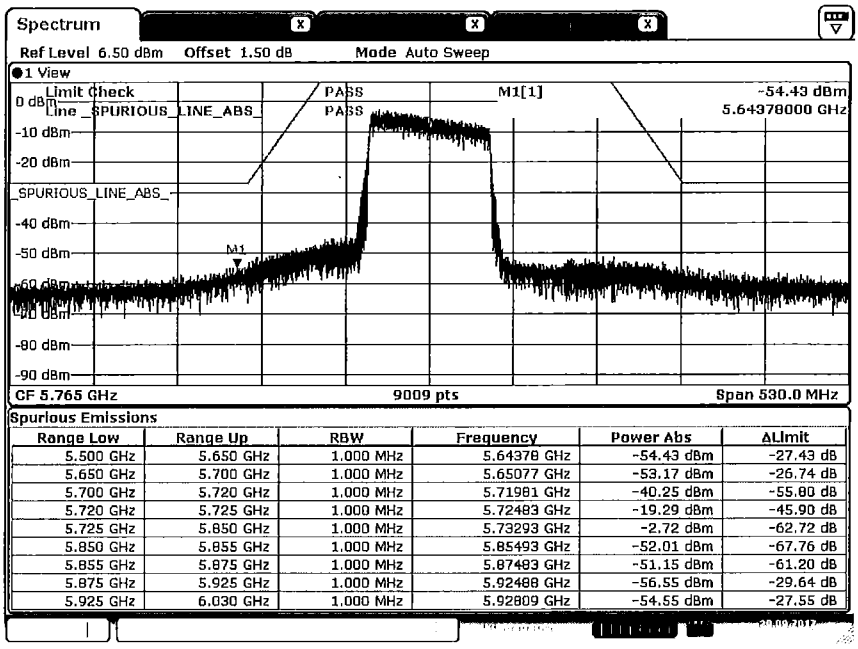


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.500 GHz	5.650 GHz	1.000 MHz	5.64873 GHz	-52.09 dBm	-25.09 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65027 GHz	-52.57 dBm	-25.78 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.71991 GHz	-41.06 dBm	-56.69 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72500 GHz	-18.89 dBm	-45.88 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.77376 GHz	-3.82 dBm	-63.82 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85495 GHz	-48.79 dBm	-64.50 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87287 GHz	-48.37 dBm	-58.96 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92458 GHz	-50.31 dBm	-23.62 dB
5.925 GHz	6.030 GHz	1.000 MHz	5.93376 GHz	-50.61 dBm	-23.61 dB

Date: 29.SEP.2017 09:21:10

Plot on Configuration QPSK, 80M / 5765 MHz / Peak / Port 2 (TX2)

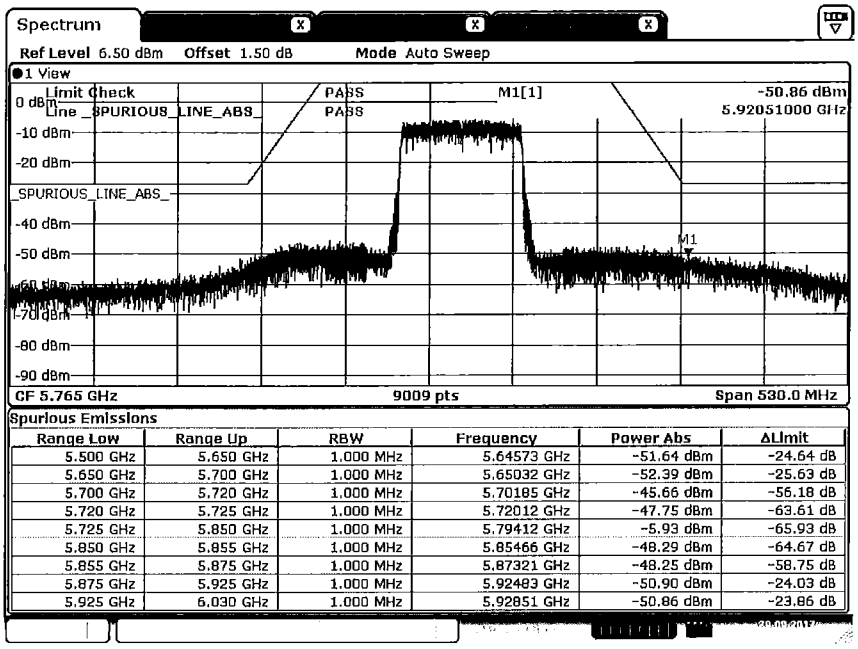


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.500 GHz	5.650 GHz	1.000 MHz	5.64378 GHz	-54.43 dBm	-27.43 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65077 GHz	-53.17 dBm	-26.74 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.71981 GHz	-40.25 dBm	-55.80 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72483 GHz	-19.29 dBm	-45.90 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.73293 GHz	-2.72 dBm	-62.72 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85493 GHz	-52.01 dBm	-67.76 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87483 GHz	-51.15 dBm	-61.20 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92488 GHz	-56.55 dBm	-29.64 dB
5.925 GHz	6.030 GHz	1.000 MHz	5.92809 GHz	-54.55 dBm	-27.55 dB

Date: 29.SEP.2017 09:23:19

Plot on Configuration QPSK, 80M / 5785 MHz / Peak / Port 1 (TX1)

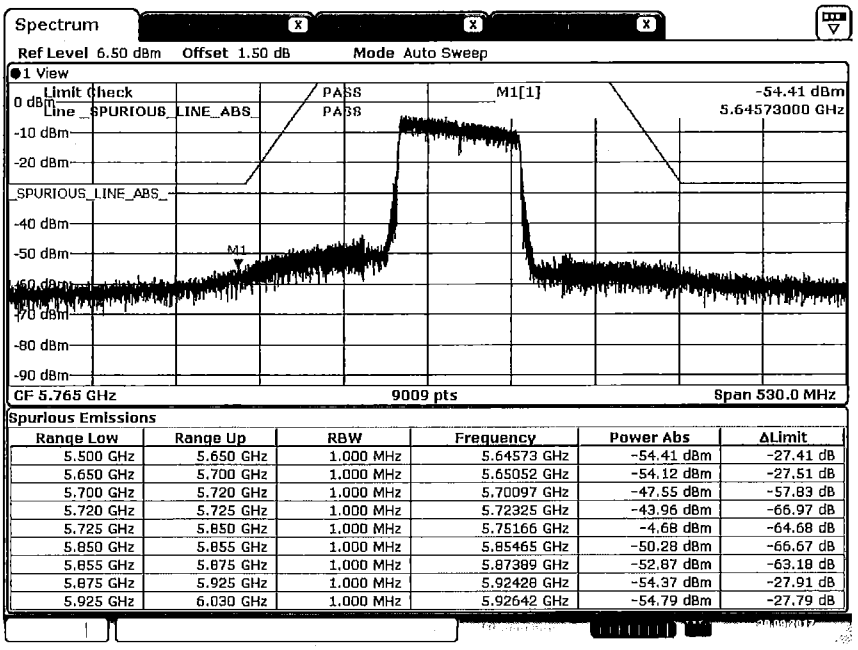


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.500 GHz	5.650 GHz	1.000 MHz	5.64573 GHz	-51.64 dBm	-24.64 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65032 GHz	-52.39 dBm	-25.63 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70185 GHz	-45.66 dBm	-56.18 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72012 GHz	-47.75 dBm	-63.61 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.79412 GHz	-5.93 dBm	-65.93 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85466 GHz	-48.29 dBm	-64.67 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87321 GHz	-48.25 dBm	-58.75 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92483 GHz	-50.90 dBm	-24.03 dB
5.925 GHz	6.030 GHz	1.000 MHz	5.92851 GHz	-50.86 dBm	-23.86 dB

Date: 29.SEP.2017 09:28:38

Plot on Configuration QPSK, 80M / 5785 MHz / Peak / Port 2 (TX2)

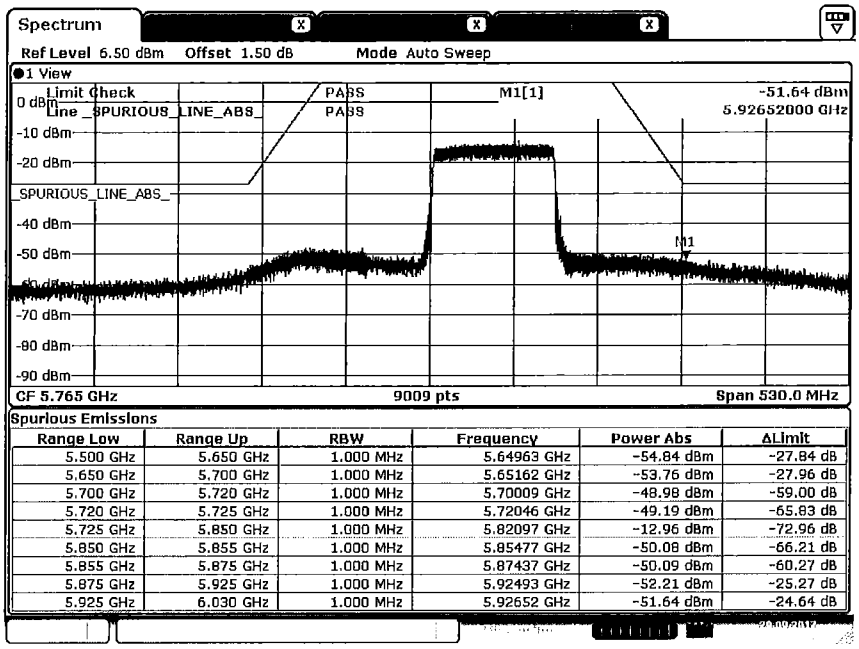


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.500 GHz	5.650 GHz	1.000 MHz	5.64573 GHz	-54.41 dBm	-27.41 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65052 GHz	-54.12 dBm	-27.51 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70097 GHz	-47.55 dBm	-57.83 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72325 GHz	-43.96 dBm	-66.97 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.75166 GHz	-4.68 dBm	-64.68 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85465 GHz	-50.28 dBm	-66.67 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87389 GHz	-52.87 dBm	-63.18 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92428 GHz	-54.37 dBm	-27.91 dB
5.925 GHz	6.030 GHz	1.000 MHz	5.92642 GHz	-54.79 dBm	-27.79 dB

Date: 29.SEP.2017 09:24:59

Plot on Configuration QPSK, 80M / 5805 MHz / Peak / Port 1 (TX1)

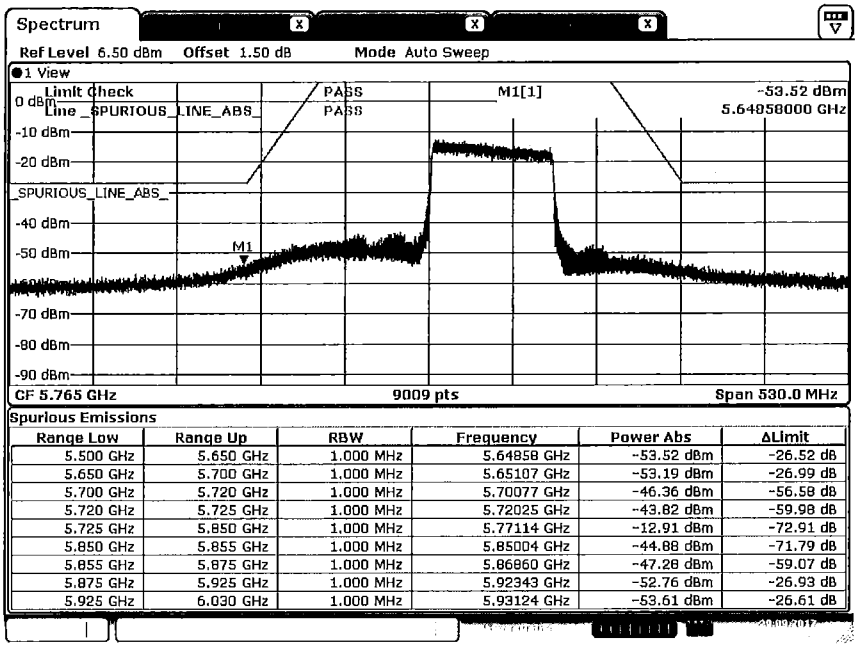


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.500 GHz	5.650 GHz	1.000 MHz	5.64963 GHz	-54.84 dBm	-27.84 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65162 GHz	-53.76 dBm	-27.96 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70009 GHz	-48.98 dBm	-59.00 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72046 GHz	-49.19 dBm	-65.83 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.82097 GHz	-12.96 dBm	-72.96 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85477 GHz	-50.08 dBm	-66.21 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.87437 GHz	-50.09 dBm	-60.27 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92493 GHz	-52.21 dBm	-25.27 dB
5.925 GHz	6.030 GHz	1.000 MHz	5.92652 GHz	-51.64 dBm	-24.64 dB

Date: 29.SEP.2017 09:37:13

Plot on Configuration QPSK, 80M / 5805 MHz / Peak / Port 2 (TX2)



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
5.500 GHz	5.650 GHz	1.000 MHz	5.64858 GHz	-53.52 dBm	-26.52 dB
5.650 GHz	5.700 GHz	1.000 MHz	5.65107 GHz	-53.19 dBm	-26.99 dB
5.700 GHz	5.720 GHz	1.000 MHz	5.70077 GHz	-46.36 dBm	-56.58 dB
5.720 GHz	5.725 GHz	1.000 MHz	5.72025 GHz	-43.82 dBm	-59.98 dB
5.725 GHz	5.850 GHz	1.000 MHz	5.77114 GHz	-12.91 dBm	-72.91 dB
5.850 GHz	5.855 GHz	1.000 MHz	5.85004 GHz	-44.88 dBm	-71.79 dB
5.855 GHz	5.875 GHz	1.000 MHz	5.86860 GHz	-47.28 dBm	-59.07 dB
5.875 GHz	5.925 GHz	1.000 MHz	5.92343 GHz	-52.76 dBm	-26.93 dB
5.925 GHz	6.030 GHz	1.000 MHz	5.93124 GHz	-53.61 dBm	-26.61 dB

Date: 29.SEP.2017 09:39:26

4.8. Frequency Stability Measurement

4.8.1. Limit

In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

4.8.2. Measuring Instruments and Setting

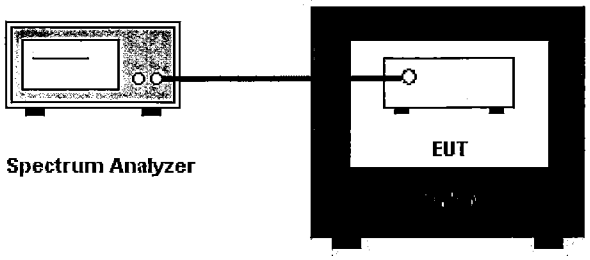
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	Entire absence of modulation emissions bandwidth
RBW	10 kHz
VBW	10 kHz
Sweep Time	Auto

4.8.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 10^6 ppm and the limit is less than ±20ppm (IEEE 802.11nspecification).
6. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
7. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
8. Extreme temperature is -40°C~70°C.

4.8.4. Test Setup Layout



4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.8.7. Test Result of Frequency Stability

Temperature	27.1°C	Humidity	79%
Test Engineer	Ron Huang	Test Date	Sep. 27, 2017~Oct. 16, 2017

Mode: 20 M / Port 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5200.0097	5200.0088	5200.0082	5200.0081
110.00	5200.0087	5200.0084	5200.0075	5200.0065
93.50	5200.0080	5200.0078	5200.0073	5200.0064
Max. Deviation (MHz)	0.0097	0.0088	0.0082	0.0081
Max. Deviation (ppm)	1.86	1.69	1.57	1.55
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5200.0725	5200.0716	5200.0711	5200.0702
-30	5200.0644	5200.0638	5200.0637	5200.0636
-20	5200.0563	5200.0561	5200.0560	5200.0550
-10	5200.0569	5200.0561	5200.0552	5200.0549
0	5200.0582	5200.0577	5200.0567	5200.0565
10	5200.0591	5200.0584	5200.0578	5200.0574
20	5200.0087	5200.0082	5200.0077	5200.0070
30	5200.0086	5200.0081	5200.0076	5200.0066
40	5200.0076	5200.0072	5200.0069	5200.0060
50	5200.0075	5200.0071	5200.0062	5200.0052
60	5200.0060	5200.0051	5200.0041	5200.0033
70	5200.0056	5200.0055	5200.0054	5200.0044
Max. Deviation (MHz)	0.0725	0.0716	0.0711	0.0702
Max. Deviation (ppm)	13.94	13.77	13.67	13.50
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5785.0091	5785.0085	5785.0084	5785.0081
110.00	5785.0087	5785.0081	5785.0079	5785.0073
93.50	5785.0079	5785.0078	5785.0075	5785.0071
Max. Deviation (MHz)	0.0091	0.0085	0.0084	0.0081
Max. Deviation (ppm)	1.57	1.47	1.45	1.40
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5785.0748	5785.0744	5785.0738	5785.0735
-30	5785.0653	5785.0648	5785.0645	5785.0639
-20	5785.0568	5785.0562	5785.0557	5785.0554
-10	5785.0572	5785.0566	5785.0562	5785.0557
0	5785.0584	5785.0577	5785.0576	5785.0566
10	5785.0591	5785.0583	5785.0580	5785.0579
20	5785.0087	5785.0080	5785.0071	5785.0066
30	5785.0086	5785.0082	5785.0074	5785.0065
40	5785.0080	5785.0074	5785.0067	5785.0062
50	5785.0081	5785.0080	5785.0072	5785.0070
60	5785.0070	5785.0060	5785.0059	5785.0058
70	5785.0063	5785.0060	5785.0059	5785.0049
Max. Deviation (MHz)	0.0748	0.0744	0.0738	0.0735
Max. Deviation (ppm)	12.93	12.86	12.76	12.71
Result	Complies			

Mode: 80M / Port 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5210.0093	5210.0089	5210.0082	5210.0076
110.00	5210.0087	5210.0077	5210.0071	5210.0070
93.50	5210.0080	5210.0079	5210.0071	5210.0061
Max. Deviation (MHz)	0.0093	0.0089	0.0082	0.0076
Max. Deviation (ppm)	1.78	1.70	1.57	1.45
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5210.0737	5210.0736	5210.0733	5210.0725
-30	5210.0654	5210.0653	5210.0650	5210.0640
-20	5210.0561	5210.0552	5210.0543	5210.0540
-10	5210.0562	5210.0561	5210.0559	5210.0553
0	5210.0577	5210.0568	5210.0562	5210.0553
10	5210.0591	5210.0583	5210.0574	5210.0566
20	5210.0087	5210.0079	5210.0077	5210.0073
30	5210.0086	5210.0080	5210.0075	5210.0073
40	5210.0074	5210.0071	5210.0063	5210.0057
50	5210.0068	5210.0066	5210.0059	5210.0049
60	5210.0081	5210.0072	5210.0070	5210.0067
70	5210.0056	5210.0051	5210.0049	5210.0044
Max. Deviation (MHz)	0.0737	0.0736	0.0733	0.0725
Max. Deviation (ppm)	14.15	14.13	14.07	13.92
Result	Complies			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5765 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5765.0089	5765.0079	5765.0074	5765.0068
110.00	5765.0087	5765.0079	5765.0076	5765.0074
93.50	5765.0085	5765.0078	5765.0069	5765.0066
Max. Deviation (MHz)	0.0089	0.0079	0.0076	0.0074
Max. Deviation (ppm)	1.54	1.37	1.31	1.28
Result	Complies			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5765 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5765.0748	5765.0740	5765.0732	5765.0724
-30	5765.0662	5765.0657	5765.0655	5765.0645
-20	5765.0568	5765.0558	5765.0556	5765.0553
-10	5765.0578	5765.0568	5765.0566	5765.0558
0	5765.0589	5765.0579	5765.0571	5765.0566
10	5765.0591	5765.0582	5765.0581	5765.0578
20	5765.0087	5765.0086	5765.0076	5765.0070
30	5765.0086	5765.0083	5765.0073	5765.0064
40	5765.0082	5765.0072	5765.0071	5765.0065
50	5765.0071	5765.0061	5765.0058	5765.0050
60	5765.0083	5765.0077	5765.0073	5765.0068
70	5765.0072	5765.0068	5765.0065	5765.0063
Max. Deviation (MHz)	0.0748	0.0740	0.0732	0.0724
Max. Deviation (ppm)	12.97	12.84	12.70	12.56
Result	Complies			

4.9. Antenna Requirements

4.9.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.9.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Nov. 23, 2016	Nov. 22, 2017	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Nov. 15, 2016	Nov. 14, 2017	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 16, 2017	Jan. 15, 2018	Conduction (CO02-CB)
COND Cable	Woken	Cable	01	0.15MHz ~ 30MHz	Nov. 30, 2016	Nov. 29, 2017	Conduction (CO02-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F	9561-F073	9kHz ~ 30MHz	Oct. 03, 2017	Oct. 02, 2018	Conduction (CO02-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Nov. 09, 2017	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Nov. 21, 2017	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Oct. 23, 2017	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Dec. 25, 2017	Conducted (TH01-CB)
Temp. and Humidity Chamber	Gaint Force	GTH-408-40-CP-AR	MAA1410-011	-40~100 degree	Sep. 15, 2017	Sep. 14, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz –26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz –26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz –26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 24, 2016	Oct. 23, 2017	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Nov. 21, 2017	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.
"*" Calibration Interval of instruments listed above is two years.
N.C.R. means Non-Calibration required.

6. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74×10^{-8}	Confidence levels of 95%
Frequency Stability	6.06×10^{-8}	Confidence levels of 95%