Registration
No.910917

TEST REPORT FOR RF TESTING

Report No.: SRTC2017-9004(F)-0025

Product Name: LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone

Product Model: ZTE BLADE V0850/ZTE BLADE V8 MINI/BLADE V8 mini/ZTE BLADE V8 mini

Applicant: ZTE Corporation

Manufacturer: ZTE Corporation

Specification: FCC Part 24E, Part 22H Part 2 Part 27 (October, 2016 edition)

FCC ID: SRQ-BLADEV8MINI

The State Radio_monitoring_center Testing Center (SRTC)

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1. GENERAL INFORMATION

1.1 Notes of the test report

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The test results relate only to individual items of the samples which have been tested.

1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District
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Country or Region:	P.R.China
Contacted person:	liujia
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1.3 Applicant's details

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Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District,Guangdong
City:	Shenzhen
Country or Region:	P.R.China
Grantee Code:	SRQ
Contacted person:	Min Zhang
Tel:	021-68897867
Fax:	021-50801070
Email:	zhang.min13@zte.com.cn

1.4 Manufacturer's details

Company:	ZTE Corporation
Address:	ZTE Plaza, #55 Keji Road South, Hi-Tech, Industrial Park, Nanshan District,Guangdong
City:	Shenzhen
Country or Region:	P.R.China
Contacted person:	Min Zhang
Tel:	021-68897867
Fax:	021-50801070
Email:	zhang.min13@zte.com.cn

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1.5 Test Environment

Date of Receipt of test sample at SRTC:	2017.03.27
Testing Start Date:	2017.03.27
Testing End Date:	2017.05.16

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	38
Maximum Extreme	55	80
Minimum Extreme	-10	---

Normal Supply Voltage (V d.c.):	3.70
Maximum Extreme Supply Voltage (V d.c.):	4.20
Minimum Extreme Supply Voltage (V d.c.):	3.50

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2 DESCRIPTION OF THE EQUIPMENT UNDER TEST

2.1 Final Equipment Build Status

Frequency Range	LTE Band 2: Tx:1850~1910MHz Rx:1930~1990MHz LTE Band 4: Tx:1710~1755MHz Rx:2110~2155MHz LTE Band 5: Tx:825~850MHz Rx:870~900MHz LTE Band 7: Tx:2500~2570MHz Rx:2620~2690MHz LTE Band 12: Tx:695~720MHz Rx:725~745MHz LTE Band 13: Tx:770~790MHz Rx:740~755MHz
Modulation Type	QPSK 16QAM
Duplex Mode	FDD
Antenna Type	Fixed Internal
Power Supply	Battery or Charger
HW Version	ux9A
SW Version	GEN_LA_BV0850_V1.0
IMEI	863927030037287

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2.2 Summary table.

FCC Rule Part	Frequency Range(MHz)	Output Power(W)	Frequency Tolerance	Emission Designator	Emission Bandwidth (MHz)	Communication Type
GSM						
22H	824.2-848.8	1.32	0.014	300KGXW	---	GPRS 850
	824.2-848.8	1.26	0.015	300KG7W	---	EGPRS850
24E	1850.2-1909.8	1.30	0.015	300KGXW	---	GPRS 1900
	1850.2-1909.8	1.26	0.016	300KG7W	---	EGPRS1900
WCDMA						
22H	826.4-846.6	0.13	0.004	4M50F9W	---	WCDMA
	826.4-846.6	0.09	0.005	4M50F9W	---	HSDPA/UPA
24E	1852.4-1907.6	0.25	0.004	4M50F9W	---	WCDMA
	1852.4-1907.6	0.18	0.003	4M50F9W	---	HSDPA/UPA
27	1712.4-1752.6	0.23	0.005	4M50F9W	---	WCDMA
	1712.4-1752.6	0.14	0.006	4M50F9W	---	HSDPA/UPA
LTE BAND2						
24E	1850.7-1909.3	0.18	0.002	1M40G7D/ 1M40D7W	1.4M	QPSK/16QAM
	1851.5-1908.5	0.18	0.003	3M00G7D/ 3M00D7W	3M	QPSK/16QAM
	1852.5-1907.5	0.19	0.003	5M00G7D/ 5M00D7W	5M	QPSK/16QAM
	1855-1905	0.15	0.004	10M0G7D/ 10M0D7W	10M	QPSK/16QAM
	1857.5-1902.5	0.14	0.002	15M0G7D/ 15M0D7W	15M	QPSK/16QAM
	1860-1900	0.12	0.003	20M0G7D/ 20M0D7W	20M	QPSK/16QAM
LTE BAND4						
27L	1710.7-1754.3	0.17	0.001	1M40G7D/ 1M40D7W	1.4M	QPSK/16QAM
	1711.5-1753.5	0.18	0.001	3M00G7D/ 3M00D7W	3M	QPSK/16QAM
	1712.5-1752.5	0.15	0.001	5M00G7D/ 5M00D7W	5M	QPSK/16QAM
	1715-1750	0.14	0.001	10M0G7D/ 10M0D7W	10M	QPSK/16QAM
	1717.5-1747.5	0.14	0.001	15M0G7D/ 15M0D7W	15M	QPSK/16QAM
	1720-1745	0.11	0.001	20M0G7D/ 20M0D7W	20M	QPSK/16QAM
LTE BAND7						

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27B	2502.5-2567.5	0.10	0.002	5M00G7D/ 5M00D7W	5M	QPSK/16QAM
	2505-2565	0.10	0.002	10M0G7D/ 10M0D7W	10M	QPSK/16QAM
	2507.5-2562.5	0.10	0.002	15M0G7D/ 15M0D7W	15M	QPSK/16QAM
	2510-2560	0.11	0.003	20M0G7D/ 20M0D7W	20M	QPSK/16QAM
LTE BAND5						
22H	824.7-848.3	0.08	0.002	1M40G7D/ 1M40D7W	1.4M	QPSK/16QAM
	825.5-847.5	0.08	0.002	3M00G7D/ 3M00D7W	3M	QPSK/16QAM
	826.5-846.5	0.08	0.002	5M00G7D/ 5M00D7W	5M	QPSK/16QAM
	829-844	0.08	0.003	10M0G7D/ 10M0D7W	10M	QPSK/16QAM
LTE BAND12						
27	699.7-715.3	0.07	0.004	1M40G7D/ 1M40D7W	1.4M	QPSK/16QAM
	700.5-714.5	0.07	0.002	3M00G7D/ 3M00D7W	3M	QPSK/16QAM
	701.5-713.5	0.07	0.003	5M00G7D/ 5M00D7W	5M	QPSK/16QAM
	704-711	0.07	0.003	10M0G7D/ 10M0D7W	10M	QPSK/16QAM
LTE BAND13						
27	779.5-784.5	0.07	0.003	5M00G7D/ 5M00D7W	5M	QPSK/16QAM
	782-782	0.06	0.003	10M0G7D/ 10M0D7W	10M	QPSK/16QAM

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2.3 Support Equipment

The following support equipment was used to exercise the EUT during testing:

Equipment	Battery
Manufacturer	Harbin Coslight Power CO.,LTD.
Model Number	Li3928T44P8h475371
Serial Number	----

There are two SIM (SIM1/2) of EUT. The relevant tests have been performed in order to verify in which combination case the EUT would have the worst features. So all the tests shown in this test report are performed when the EUT use SIM 1.

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3 REFERENCE SPECIFICATION

Specification	Version	Title
2.1046	July 7, 1998	Measurements required: RF power output.
2.1049	July 7, 1998	Measurements required: Occupied bandwidth.
2.1051	July 7, 1998	Measurements required: Spurious emissions at antenna terminals.
2.1053	July 7, 1998	Measurements required: Field strength of spurious radiation.
2.1055	Dec. 9, 2003	Measurements required: Frequency stability.
22.355	Oct. 17, 1996	Frequency tolerance.
22.913	Dec. 15, 2004	Effective radiated power limits.
22.917	Dec. 17, 2002	Emission limitations for cellular equipment.
24.232	May 2, 2008	Power and antenna height limits.
24.235/27.54	N/A	Frequency stability.
24.238	Dec. 17, 2002	Emission limitations for Broadband PCS equipment.
27.50	Apr. 7, 1997	Power limits and duty cycle.
27.53	Apr. 7, 1997	Emission limits.

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4 KEY TO NOTES AND RESULT CODES

The following are the definition of the test result.

Code	Meaning
PASS	Test result shows that the requirements of the relevant specification have been met.
FAIL	Test result shows that the requirements of the relevant specification have not been met.
N/T	Test case is not tested.
NTNV	Nominal voltage, Normal Temperature
HV	High voltage, Normal Temperature
LV	Low voltage, Normal Temperature
HTHV	high voltage, High Temperature
LTHV	High voltage, Low Temperature
HTLV	Low voltage, High Temperature
LTLV	Low voltage, Low Temperature

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5 RESULT SUMMARY

The following table summarizes the test results obtained.

No.	Test case	FCC reference	Verdict
1	RF Power Output	2.1046	Pass
2	Effective Radiated Power and Effective Isotropic Radiated Power	22.913(a)/24.232(c) /27.50(d)(4)	Pass
3	Occupied Bandwidth	2.1049/27.53(h)(1)	Pass
4	Peak-Average Ratio	27.50(d)(5)	Pass
5	Emission Bandwidth	22.917(b)/24.238(b)	Pass
6	Spurious Emissions at antenna terminals	2.1051/22.917(a)/24.238(a)/ 27.53(h)	Pass
7	Band Edges Compliance	2.1051/22.917(a)/24.238(a)/ 27.53(h)	Pass
8	Frequency Stability	2.1055/22.355/24.235/27.54	Pass
9	Radiated Spurious Emissions	2.1053/22.917(a)/24.238(a)/ 27.53(h), 27.53(g)	Pass

This Test Report Is Issued by: Mr. Peng Zhen	Checked by: Ms. Liu Jia
Tested by: Mr. Jiang Shuo	Issued date: 20170517

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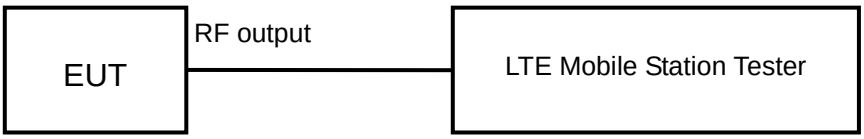
6 TEST RESULT

6.1 RF Power Output-FCC Part 2.1046

Ambient condition:

Temperature	Relative humidity	Pressure
23°C	42%	101.9kPa

Test Setup:



Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. Then the test data can be read at the tester screen. The loss between RF output port of the EUT and the input port of the tester will be taken into consideration.

Limits	≤30dBm

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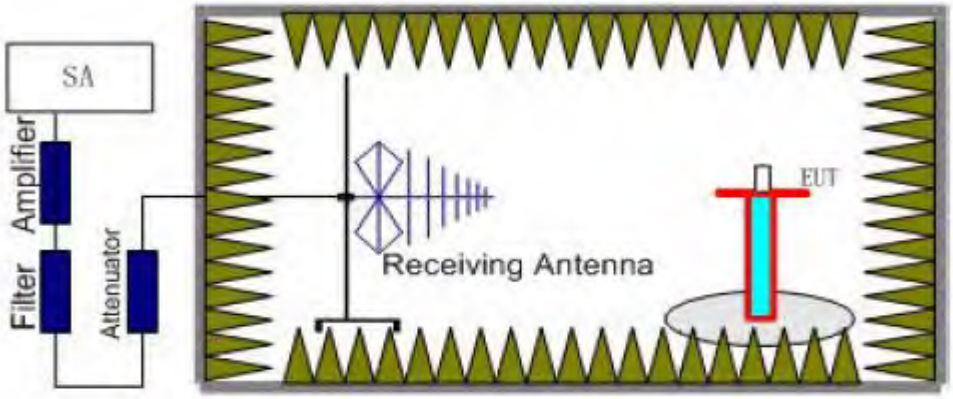
6.2 Effective Radiated Power-FCC Part 22.913(a)/24.232(c) /27.50(d)(4)

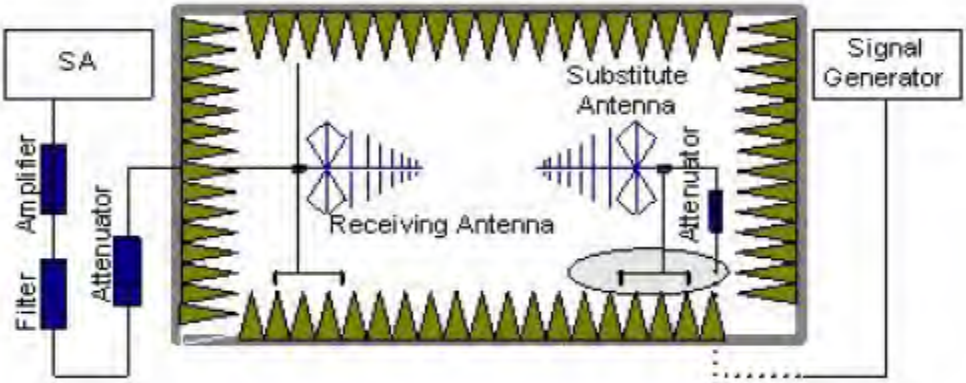
Ambient condition:

Temperature	Relative humidity	Pressure
20.8°C	36.5%	100.9kPa

Test setup:



Step 1



Step 2

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Test procedure:
The measurements procedures in TIA-603C-2004 are used.
Step 1:
The measurement is carried out in the fully anechoic chamber. EUT was placed on a 2.4 meters high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. The height of receiving antenna is 2.4m and varies in certain range to find the maximum power value. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used and RBW is set to 3MHz. Then the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum power value on spectrum analyzer or receiver. And the maximum value of the receiver should be recorded as (Pr).

Step 2:
A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator. To repeat the same procedure as step1 and the level of signal generator will be adjusted till the same power value on the spectrum analyzer or receiver. The ERP/EIRP of the EUT can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
A power (Pmea) is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (Pmea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
A “reference path loss” should be calculated after test. The attenuation of “reference path loss” is the cable loss between the Signal Source with the Substitution Antenna (Pca) and the Substitution Antenna Gain (Ga).

The measurement results are obtained as described below:
Power (EIRP) = Pmea+ Pca+ Ga

This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP – 2.15 (dB).

Limits	≤30dBm

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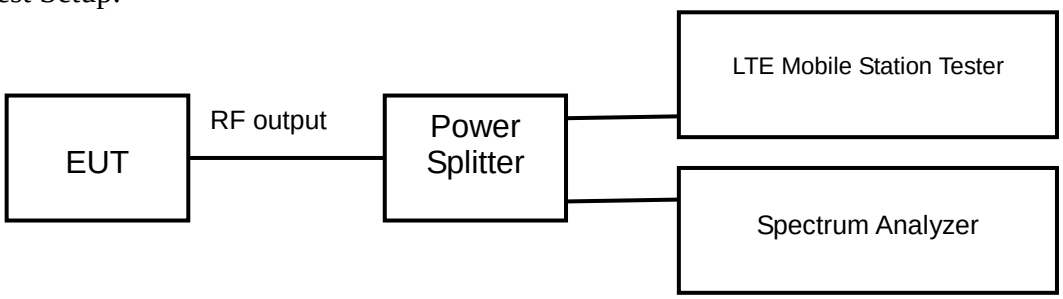
6.3 Occupied Bandwidth-FCC Part 2.1049/27.53(h)(1)

Ambient condition:

Temperature	Relative humidity	Pressure
23°C	42%	101.9kPa

Test Setup:



Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. The occupied bandwidth is measured using spectrum analyzer. RBW is set to 1-5% OBW on spectrum analyzer. The bandwidth of 99% power can be read on spectrum analyzer.

The measurement will be conducted at three channels (Bottom, middle and top channels of LTE band)

Limits: No specific occupied bandwidth requirements in part 2.1049

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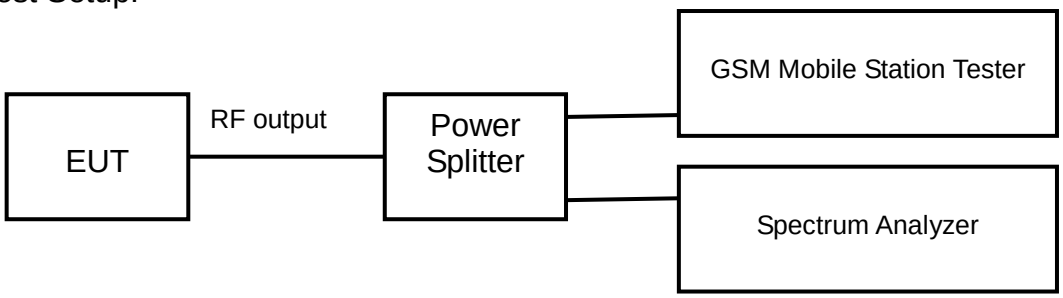
6.4 Emission Bandwidth-FCC Part22.917(b)/24.238(b)

Ambient condition:

Temperature	Relative humidity	Pressure
23℃	42%	101.9kPa

Test Setup:



Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. The emission bandwidth is measured using spectrum analyzer. RBW is set to 1-5% OBW on spectrum analyzer. The bandwidth of -26dB transmitter power can be read on spectrum analyzer.

Limits: No specific emission bandwidth requirements in part 22.917(b)

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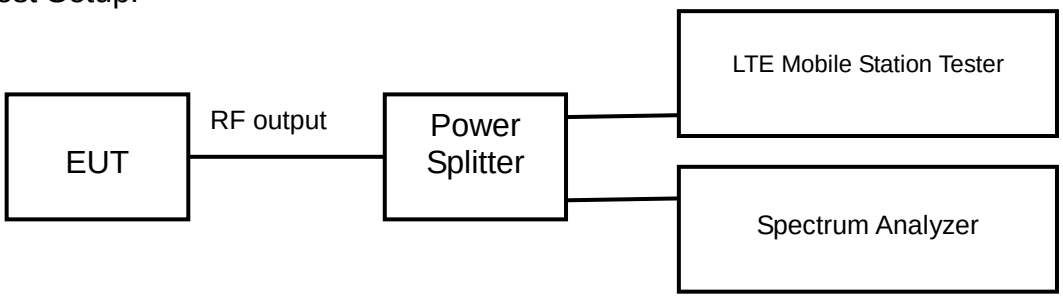
6.5 Peak-Average Ratio -FCC Part 27.50(d)(5)

Ambient condition:

Temperature	Relative humidity	Pressure
23°C	42%	101.9kPa

Test Setup:



Test procedure:
After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. The Peak-Average Ratio is measured using spectrum analyzer. RBW is set to 30kHz on spectrum analyzer. The Peak-Average Ratio can be read on spectrum analyzer.

Limits	≤13dB

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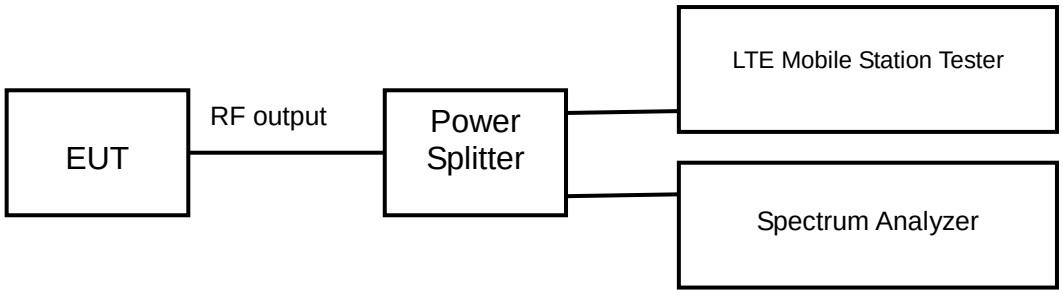
6.6 Spurious Emissions at antenna terminal-FCC Part 2.1051/22.917(a)/24.238(a)/ 27.53(h)

Ambient condition:

Temperature	Relative humidity	Pressure
23°C	42%	101.9kPa

Test Setup:



Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to 26GHz (higher than the 10th harmonic of the carrier). The peak detector is used and RBW is set to 1MHz on spectrum analyzer.

Limits	≤-13dBm

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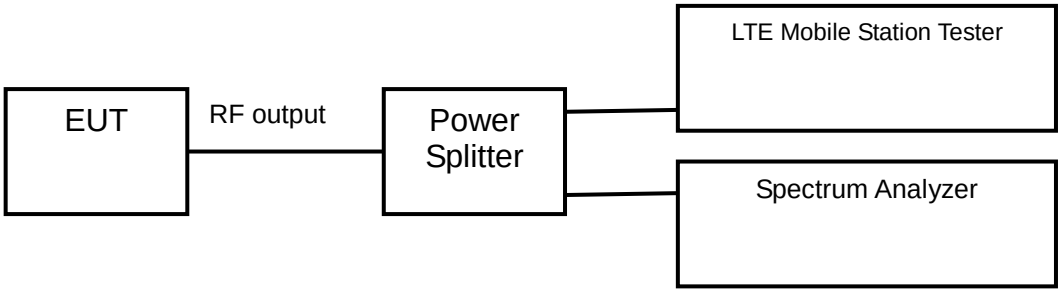
6.7 Band Edges Compliance-FCC Part 2.1051/22.917(a)/24.238(a)/ 27.53(h)

Ambient condition:

Temperature	Relative humidity	Pressure
23°C	42%	101.9kPa

Test Setup:



Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. The measurement is carried out using a spectrum analyzer. The peak detector is used and RBW is set to at least 1% of the emission bandwidth on spectrum analyzer.

Limits	≤-13dBm

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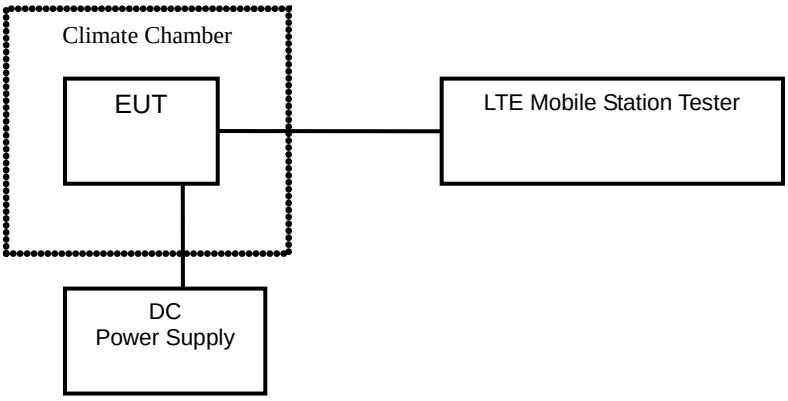
6.8 Frequency Stability-FCC Part 2.1055/22.355/24.235/27.54

Ambient condition:

Temperature	Relative humidity	Pressure
23°C	42%	101.9kPa

Test setup:



Test Procedure:
A radio link shall be established between EUT and Tester. The tester will sample the transmitter RF output signal and measure its frequency. The temperature inside the climate chamber is varied from -30 to +50°C in 10°C step size, and also the DC power supply voltage to the EUT is varied from LV to HV. The measurement will be conducted at three channels (Bottom, middle and top channels).

Limits: No specific frequency stability requirements in part 2.1055 and part 22.355.

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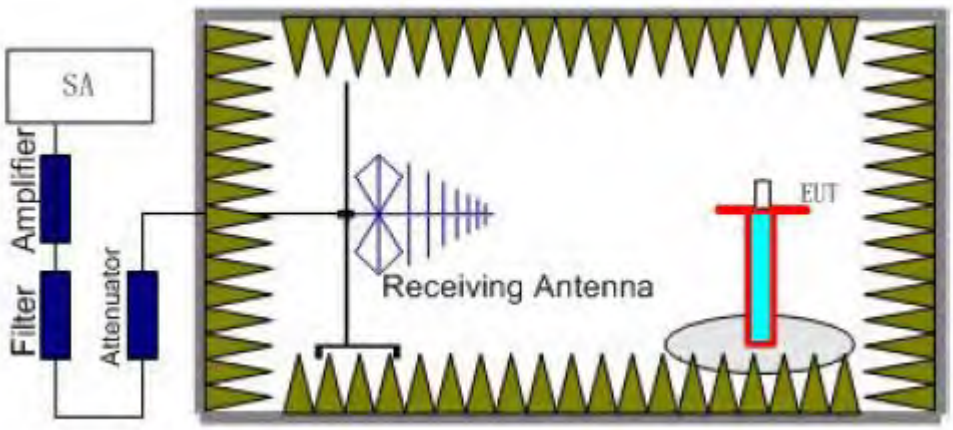
6.9 Radiated Spurious Emissions-FCC Part 2.1053/22.917(a)/24.238(a)/ 27.53(h), 27.53(g)

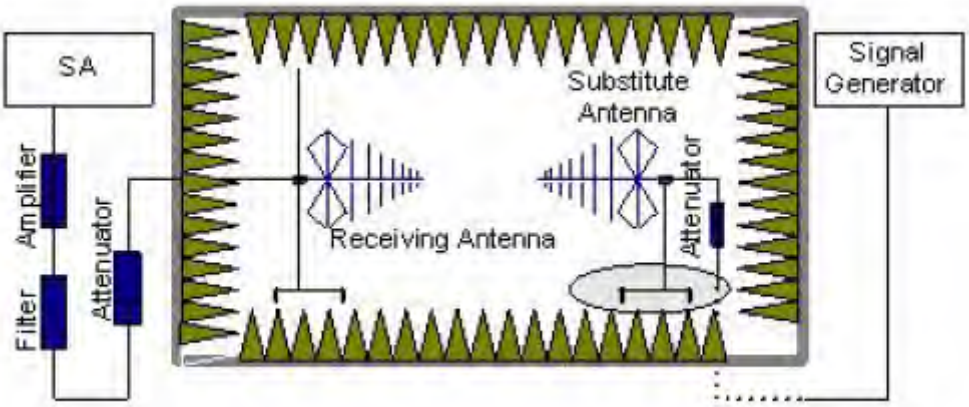
Ambient condition:

Temperature	Relative humidity	Pressure
20.8°C	36.5%	100.9kPa

Test Setup:



Step 1



Step 2

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Test procedure:
The measurements procedures in TIA-603C-2004 are used.
The spectrum was scanned from 30MHz to the 10th harmonic of the highest frequency generated within the equipment.

Step 1:
The measurement is carried out in the fully anechoic chamber. EUT was placed on a 2.4 meter high non-conductive table at a 3 meter test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. The height of receiving antenna is 2.4m and varies in certain range to find the maximum power value. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. The measurement is carried out using a spectrum analyzer or receiver. The spectrum analyzer scans from 30MHz to 26GHz (higher than the 10th harmonic of the carrier). The peak detector is used and RBW is set to 1MHz on spectrum analyzer. Then the antenna height and turn table rotation is adjusted till the maximum power value is founded on spectrum analyzer or receiver. A notch filter is necessary in the band near to the carrier frequency. A high pass filter is needed to avoid the distortion of the testing equipment in the band above the carrier frequency.

Step 2:
A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
A power (Pmea) is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (Pmea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
A “reference path loss” should be calculated after test. The attenuation of “reference path loss” is the cable loss between the Signal Source with the Substitution Antenna (Pca) and the Substitution Antenna Gain (Ga).

Calculation procedure:
The data of cable loss and antenna gain has been calibrated in full testing frequency range before the testing.

The power of the Radiated Spurious Emissions is calculated by adding the cable loss and antenna gain. The basic equation with a sample calculation is as followed:
Power(EIRP) = Pmea+ Pca + Ga
This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15dB) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP – 2.15 (dB).

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Assumed the power of signal source record is -20dBm. A cable loss of -30dB, and an antenna gain of 11dB are added.
P=Pmea+Pca+Ga=(-20dBm)+(-30dB)+(11dB)= -39dBm

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7 MEASUREMENT UNCERTAINTIES

Items	Uncertainty	
RF Power Output	U=0.6 dB	
Occupied Bandwidth	3kHz	
Spurious Emissions	9kHz~2GHz	U=1.2dB
	2G~3.6GHz	U=1.4dB
	3.6G~8GHz	U=2.2dB
	8G~12.75GHz	U=2.7dB
Band Edges Compliance	1.2dB	
Frequency Stability	U=48 Hz	

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8 TEST EQUIPMENTS

No.	Name/Model	Manufacturer	Serial Number	Calibration Due Date
1	Mobile Station Tester	SP8010B	E0095	2017.09.24
2	N9020A Spectrum Analyzer	Agilent	MY48010771	2017.08.20
3	DC Power Supply E3645A	Agilent	MY43007648	2017.08.20
4	Power Splitter 11850C	Agilent	19632	2017.08.20
5	Temperature chamber SH241	ESPEC	92013758	2017.08.20
6	12.65m×8.03m×7.50m Fully-Anechoic Chamber	FRANKONIA	-----	-----
7	Turn table Diameter:1m	HD	-----	-----
8	Antenna master FAC(MA4.0)	MATURO	-----	-----
9	HF 906 Double-Ridged Waveguide Horn Antenna	R&S	100030	2017.08.20
10	HL562 Ultra log antenna	R&S	100016	2017.08.20
11	3160-09 Receive antenna	SCHWARZ-BECK	002058-002	2017.08.20
12	ESI 40 EMI test receiver	R&S	100015	2017.08.20
13	Radio tester	CMU 200	114667	2017.08.20
14	Spectrum Analyzer	FSV40	101065	2017.08.20

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APPENDIX A – TEST DATA OF CONDUCTED EMISSION

Please refer to the attachment.

APPENDIX B – TEST DATA OF RADIATED EMISSION

Please refer to the attachment.

APPENDIX C – TEST SETUP

Please refer to the attachment.

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APPENDIX

Appendix Test Setup

1 RF Power Output-FCC Part 2.1046

Test result:

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	699.7	23017	1.4	1	0	21.8	20.5
				1	5	21.8	20.7
				3	2	21.7	21.0
				6	0	20.9	19.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	707.5	23095	1.4	1	0	18.3	20.5
				1	5	21.9	20.9
				3	2	21.9	21.0
				6	0	20.9	19.9

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	715.3	23173	1.4	1	0	21.9	21.2
				1	5	22.1	21.1
				3	2	21.9	20.9
				6	0	21.0	20.0

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	700.5	23025	3	1	0	18.5	17.9
				1	14	18.2	17.6
				8	4	17.5	16.9
				15	0	17.5	16.4

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	707.5	23095	3	1	0	18.5	18.3
				1	14	18.6	18.2
				8	4	17.3	16.8
				15	0	17.4	16.8

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Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	714.5	23165	3	1	0	18.3	17.2
				1	14	18.2	16.9
				8	4	17.3	16.1
				15	0	17.5	16.6

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	701.5	23035	5	1	0	18.2	20.0
				1	24	21.6	19.8
				12	6	20.6	19.5
				25	0	20.6	19.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	707.5	23095	5	1	0	21.7	21.0
				1	24	21.3	20.9
				12	6	20.7	19.5
				25	0	20.7	19.6

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	713.5	23155	5	1	0	22.0	20.5
				1	24	21.7	20.7
				12	6	21.0	20.0
				25	0	21.0	20.0

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	704	23060	10	1	0	22.2	21.5
				1	49	21.9	21.4
				24	12	21.0	19.9
				50	0	21.2	20.2

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	707.5	23095	10	1	0	22.1	21.9
				1	49	21.7	21.4

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				24	12	21.0	20.1
				50	0	21.1	20.1

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
12	711	23130	10	1	0	22.2	20.8
				1	49	22.1	20.8
				24	12	21.0	20.0
				50	0	21.1	20.0

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
13	779.5	23205	5	1	0	22.1	17.6
				1	24	18.8	17.8
				12	6	18.0	16.9
				25	0	18.0	17.1

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
13	784.5	23255	5	1	0	18.9	18.3
				1	24	18.7	18.6
				12	6	18.0	17.0
				25	0	18.0	16.9

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
13	782	23230	5	1	0	18.9	17.6
				1	24	18.9	17.5
				12	6	18.2	16.9
				25	0	18.1	17.1

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
13	782	23230	10	1	0	19.1	18.4
				1	49	19.0	18.3
				24	12	18.1	17.0
				50	0	18.1	17.0

Band	Carrier frequency	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)

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	(MHz)					QPSK	16-QAM
13	782	23230	10	1	0	19.2	18.5
				1	49	19.0	18.3
				24	12	18.1	16.9
				50	0	18.1	17.1

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
13	782	23230	10	1	0	19.1	18.4
				1	49	18.8	18.3
				24	12	18.1	16.9
				50	0	18.0	17.1

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1850.7	18607	1.4	1	0	22.0	20.9
				1	5	22.0	20.9
				3	2	21.7	21.1
				6	0	20.8	19.9

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1880	18900	1.4	1	0	21.6	21.2
				1	5	21.8	21.2
				3	2	22.0	21.1
				6	0	20.9	20.0

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1909.3	19193	1.4	1	0	22.3	21.3
				1	5	22.4	21.2
				3	2	22.0	21.1
				6	0	21.0	20.1

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1851.5	18615	3	1	0	22.0	21.1
				1	14	21.6	21.1
				8	4	20.8	19.7
				15	0	20.9	19.7

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Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1880	18900	3	1	0	22.1	21.4
				1	14	21.8	21.6
				8	4	20.8	20.1
				15	0	20.9	20.1

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1908.5	19185	3	1	0	22.1	21.0
				1	14	22.1	20.7
				8	4	21.1	19.7
				15	0	21.1	20.0

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1852.5	18625	5	1	0	21.9	20.4
				1	24	21.8	20.2
				12	6	20.8	19.8
				25	0	20.8	19.9

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1880	18900	5	1	0	21.9	21.1
				1	24	22.1	21.3
				12	6	20.9	20.0
				25	0	20.9	20.0

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1907.5	19175	5	1	0	22.1	20.6
				1	24	22.0	20.7
				12	6	21.0	20.1
				25	0	21.0	19.9

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1855	18650	10	1	0	21.9	21.0

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				1	49	21.7	21.2
				24	12	20.8	20.0
				50	0	20.8	19.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1880	18900	10	1	0	21.8	21.7
				1	49	21.9	21.7
				24	12	21.1	19.8
				50	0	20.9	19.6

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1905	19150	10	1	0	21.9	21.2
				1	49	22.1	20.8
				24	12	21.0	20.0
				50	0	21.0	19.9

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1857.5	18675	15	1	0	21.9	21.1
				1	74	21.8	21.3
				38	18	21.8	21.2
				75	0	20.8	19.9

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1880	18900	15	1	0	21.8	21.3
				1	74	21.8	21.3
				38	18	21.8	21.3
				75	0	20.9	19.9

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1902.5	19125	15	1	0	21.8	21.1
				1	74	22.0	20.8
				38	18	22.1	20.8
				75	0	21.0	19.9

Band	Carrier frequency	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)

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	(MHz)					QPSK	16-QAM
2	1860	18700	20	1	0	21.7	21.2
				1	99	21.9	21.4
				50	25	20.9	19.8
				100	0	20.9	19.9

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1900	19100	20	1	0	22.0	21.7
				1	99	22.1	22.0
				50	25	21.1	20.0
				100	0	21.1	20.0

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
2	1880	18900	20	1	0	22.0	21.0
				1	99	22.0	20.7
				50	25	20.9	19.9
				100	0	20.9	19.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1710.7	19957	1.4	1	0	22.3	21.1
				1	5	22.4	21.2
				3	2	22.0	20.6
				6	0	21.1	20.0

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1732.5	20175	1.4	1	0	21.9	21.4
				1	5	21.8	21.4
				3	2	22.2	21.3
				6	0	21.1	20.1

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1754.3	20393	1.4	1	0	21.8	20.7
				1	5	22.2	21.0
				3	2	22.2	21.0
				6	0	21.0	20.1

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Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1711.5	19965	3	1	0	21.9	21.3
				1	14	21.9	21.0
				8	4	21.1	19.9
				15	0	21.2	20.2

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1732.5	20175	3	1	0	22.1	21.6
				1	14	22.0	21.8
				8	4	21.2	20.2
				15	0	20.9	20.2

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1753.5	20385	3	1	0	21.6	21.1
				1	14	21.8	20.9
				8	4	21.0	19.7
				15	0	20.9	19.9

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1712.5	19975	5	1	0	21.9	20.3
				1	24	21.8	20.3
				12	6	21.1	20.0
				25	0	21.0	20.0

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1732.5	20175	5	1	0	21.8	21.2
				1	24	22.0	21.4
				12	6	21.0	20.0
				25	0	20.9	20.0

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1752.5	20375	5	1	0	21.9	20.6

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				1	24	22.0	20.7
				12	6	20.9	19.9
				25	0	21.0	20.0

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1715	20000	10	1	0	21.8	21.3
				1	49	21.8	21.3
				24	12	21.0	19.9
				50	0	21.1	20.0

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1732.5	20175	10	1	0	22.1	21.7
				1	49	21.7	21.6
				24	12	20.9	20.0
				50	0	20.9	19.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1750	20350	10	1	0	21.9	20.8
				1	49	22.0	20.8
				24	12	21.0	20.0
				50	0	21.0	20.0

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1717.5	20025	15	1	0	21.9	21.4
				1	74	21.8	21.3
				38	18	21.9	21.3
				75	0	21.1	20.0

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1732.5	20175	15	1	0	21.9	21.5
				1	74	21.9	21.5
				38	18	22.0	21.5
				75	0	21.0	20.1

Band	Carrier frequency	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)

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	(MHz)					QPSK	16-QAM
4	1747.5	20325	15	1	0	22.0	21.3
				1	74	21.9	21.1
				38	18	21.9	21.1
				75	0	21.1	20.1

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1720	20050	20	1	0	21.7	21.8
				1	99	21.8	21.7
				50	25	21.1	20.2
				100	0	21.1	20.2

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1732.5	20175	20	1	0	22.1	21.2
				1	99	22.2	21.2
				50	25	20.9	20.0
				100	0	21.0	20.0

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
4	1745	20300	20	1	0	21.8	21.9
				1	99	22.0	21.7
				50	25	21.1	20.2
				100	0	21.1	20.1

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	824.7	20407	1.4	1	0	21.2	17.2
				1	5	18.1	16.9
				3	2	17.9	17.1
				6	0	16.9	15.9

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	836.5	20525	1.4	1	0	17.7	17.1
				1	5	17.8	17.1
				3	2	17.8	17.0
				6	0	16.8	15.7

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Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	848.3	20643	1.4	1	0	17.9	17.1
				1	5	17.9	16.7
				3	2	18.0	17.0
				6	0	16.9	15.7

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	825.5	20415	3	1	0	17.9	17.0
				1	14	17.6	16.9
				8	4	16.8	16.0
				15	0	16.9	16.0

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	836.5	20525	3	1	0	17.9	17.5
				1	14	17.7	17.5
				8	4	16.9	16.0
				15	0	16.8	16.0

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	847.5	20635	3	1	0	17.8	16.9
				1	14	17.9	16.8
				8	4	17.0	15.8
				15	0	16.9	15.9

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	826.5	20425	5	1	0	17.9	16.5
				1	24	17.8	16.6
				12	6	16.9	15.7
				25	0	16.9	15.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	836.5	20525	5	1	0	17.7	17.0

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				1	24	18.0	16.9
				12	6	16.8	15.8
				25	0	16.8	15.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	846.5	20625	5	1	0	17.7	16.4
				1	24	17.9	16.5
				12	6	16.9	15.9
				25	0	16.8	15.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	829	20450	10	1	0	17.9	17.2
				1	49	17.9	17.0
				24	12	16.8	16.0
				50	0	16.9	16.0

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	836.5	20525	10	1	0	18.1	17.3
				1	49	18.1	17.2
				24	12	16.8	15.9
				50	0	16.8	15.9

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
5	844	20600	10	1	0	17.7	17.0
				1	49	17.7	16.7
				24	12	16.9	15.9
				50	0	16.9	15.9

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
7	2502.5	20775	5	1	0	20.2	19.0
				1	24	20.4	18.9
				12	6	19.4	18.1
				25	0	19.3	18.4

Band	Carrier frequency	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)

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	(MHz)					QPSK	16-QAM
7	2535	21100	5	1	0	20.9	19.7
				1	24	20.9	19.5
				12	6	19.9	18.8
				25	0	19.9	18.9

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
7	2567.5	21425	5	1	0	20.4	19.2
				1	24	20.3	18.9
				12	6	19.6	18.6
				25	0	19.5	18.6

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
7	2505	20800	10	1	0	20.5	19.8
				1	49	20.7	19.9
				24	12	19.6	18.8
				50	0	19.6	18.6

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
7	2535	21100	10	1	0	20.9	20.4
				1	49	21.2	20.5
				24	12	19.8	19.0
				50	0	19.9	18.9

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
7	2565	21400	10	1	0	20.5	19.5
				1	49	20.1	19.4
				24	12	19.7	18.7
				50	0	19.7	18.5

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
7	2507.5	20825	15	1	0	20.4	19.8
				1	74	20.8	19.9
				38	18	20.7	19.9
				75	0	19.6	18.6

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Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
7	2535	21100	15	1	0	20.8	20.4
				1	74	20.9	20.3
				38	18	20.8	20.3
				75	0	19.8	18.7

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
7	2562.5	21375	15	1	0	20.7	19.8
				1	74	19.9	19.6
				38	18	19.9	19.5
				75	0	19.7	18.7

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
7	2510	20850	20	1	0	19.6	19.0
				1	99	20.8	20.2
				50	25	19.7	18.6
				100	0	19.6	18.6

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
7	2560	21350	20	1	0	20.0	19.7
				1	99	19.3	19.0
				50	25	19.7	18.5
				100	0	19.8	18.6

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	RF Power Output (dBm)	
						QPSK	16-QAM
7	2535	21100	20	1	0	20.1	19.4
				1	99	20.6	19.8
				50	25	19.8	18.9
				100	0	19.8	18.8

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2 Occupied Bandwidth-FCC Part 2.1049/27.53(h)(1)

Test result

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	699.7	23017	1.4	1	0	0.207	Fig.1	0.219	Fig.5
				1	5	0.213	Fig.2	0.213	Fig.6
				3	2	0.577	Fig.3	0.571	Fig.7
				6	0	1.100	Fig.4	1.100	Fig.8

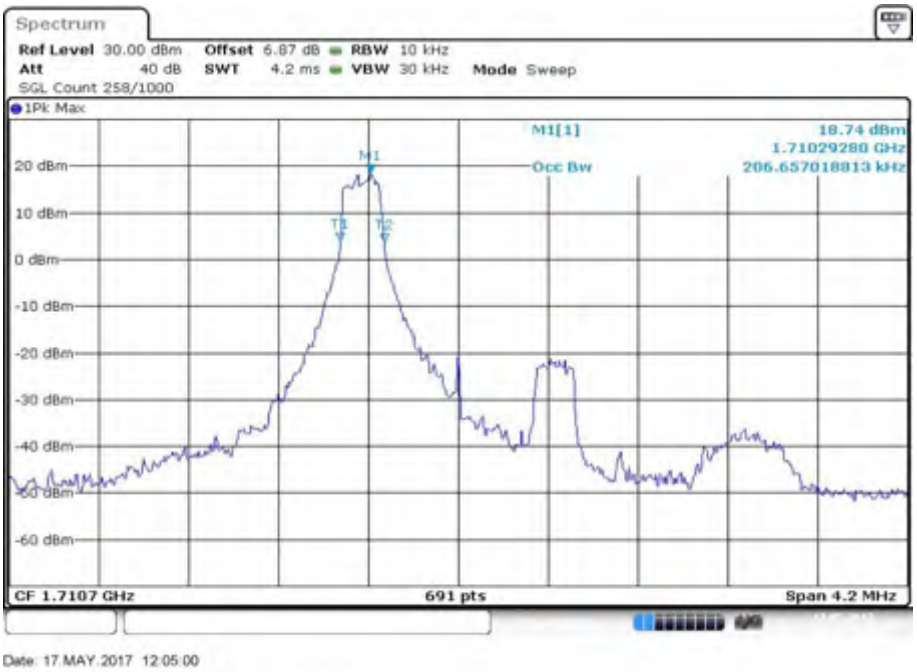

Fig.1

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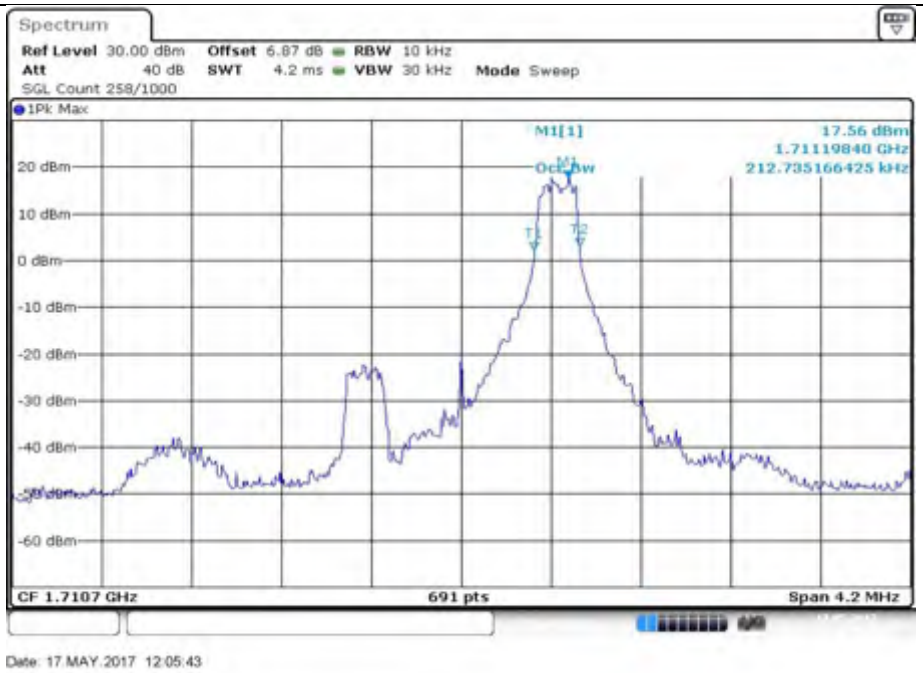

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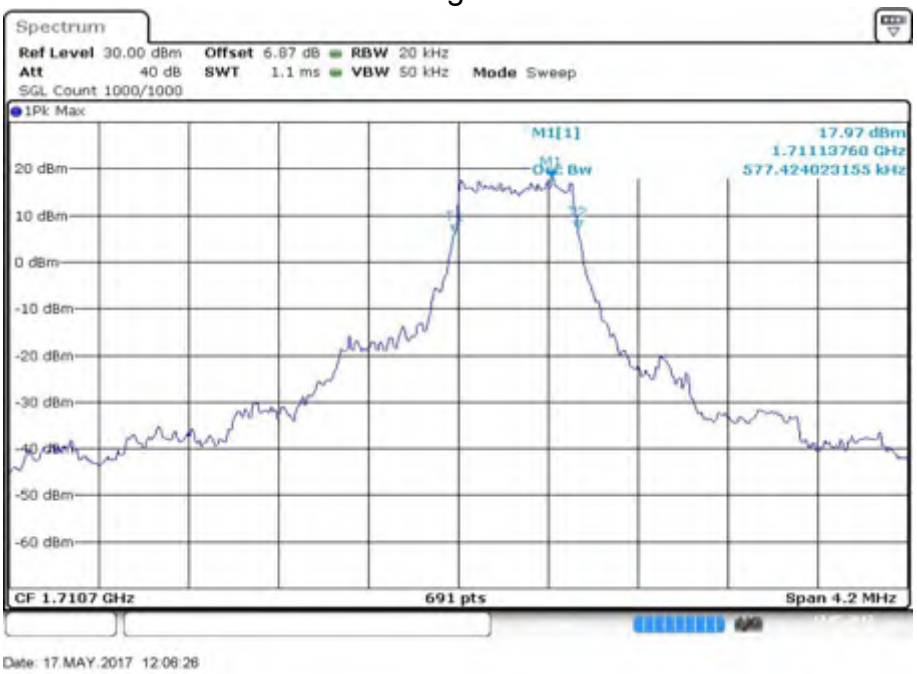

Fig.3

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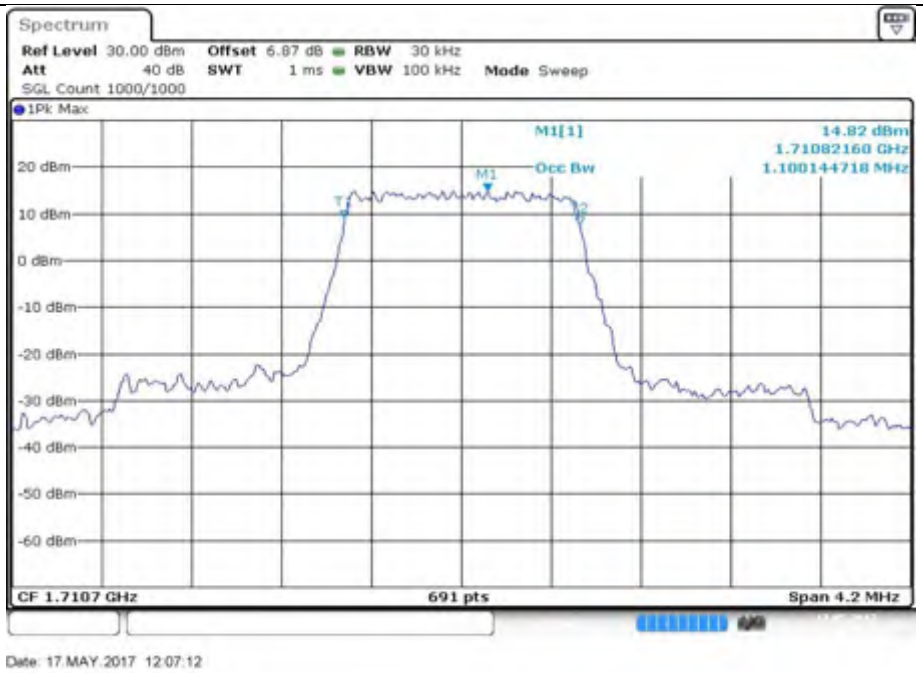

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Fig.4

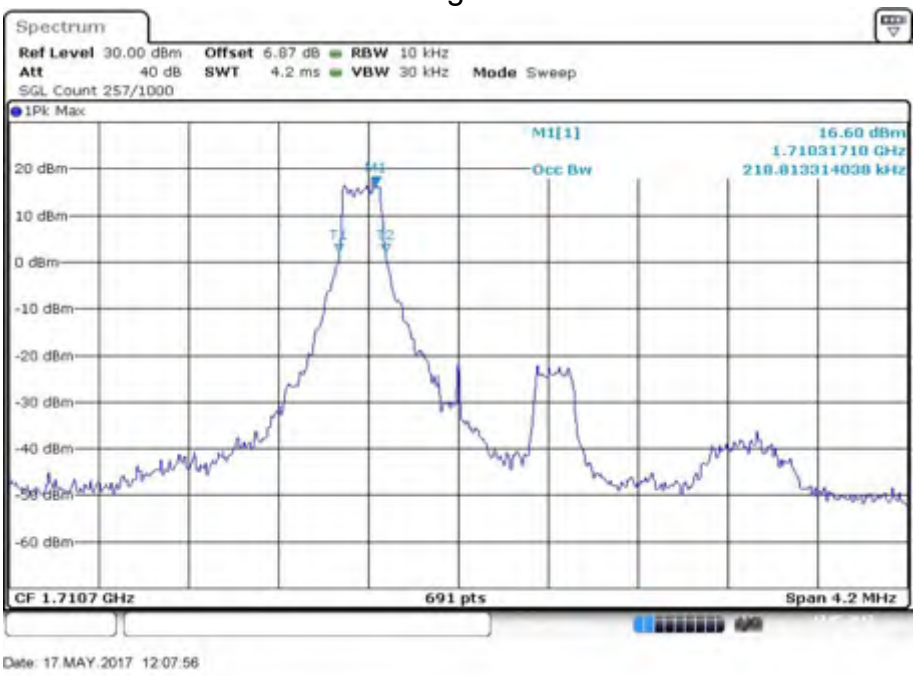

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Fig.5

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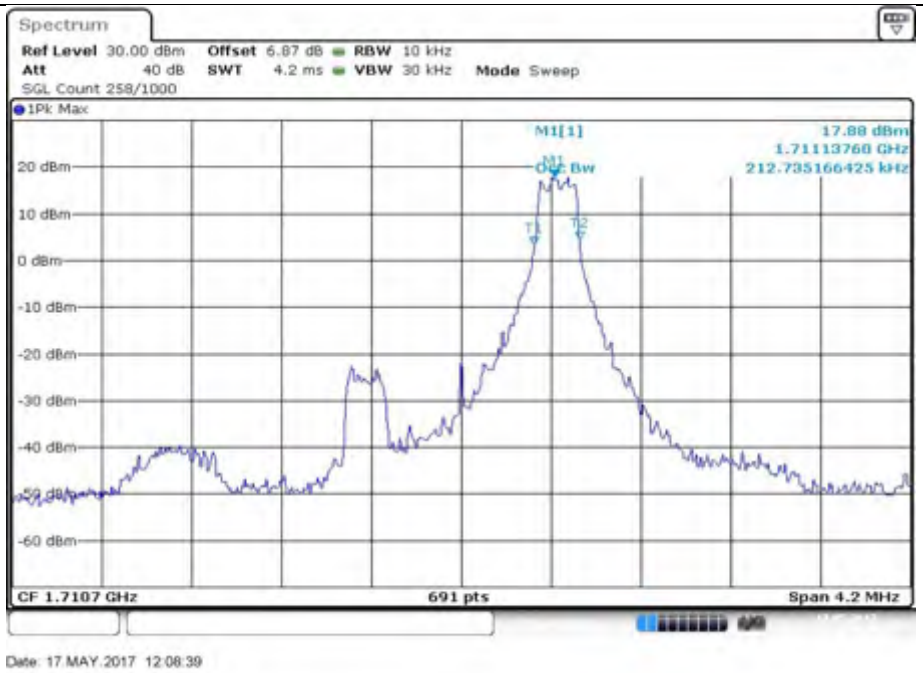

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Fig.6

Date: 17.MAY.2017 12:09:22

Fig.7

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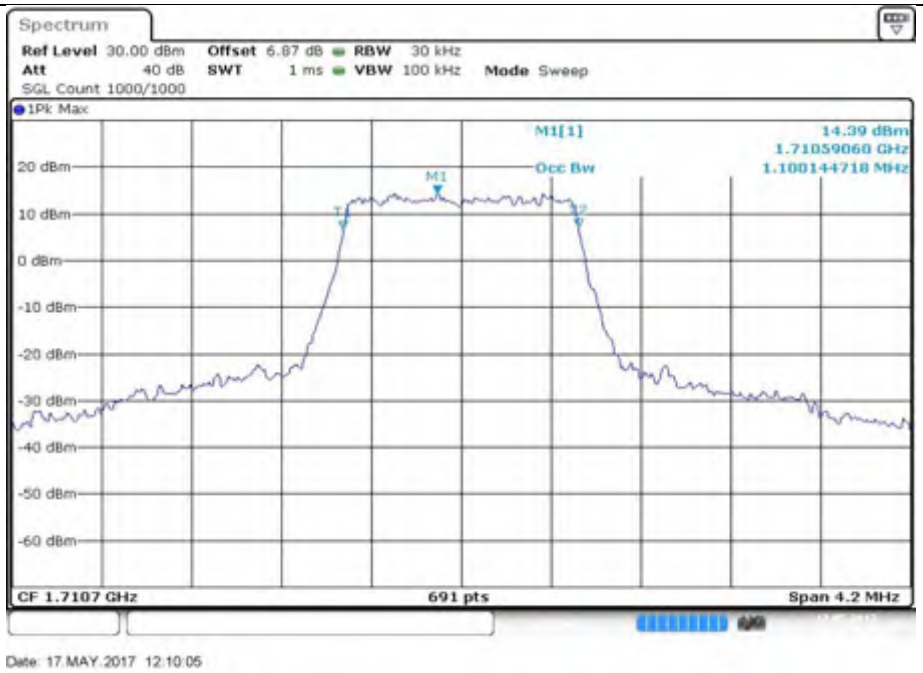

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	707.5	23095	1.4	1	0	0.213	Fig.1	0.219	Fig.5
				1	5	0.207	Fig.2	0.213	Fig.6
				3	2	0.571	Fig.3	0.571	Fig.7
				6	0	1.100	Fig.4	1.106	Fig.8

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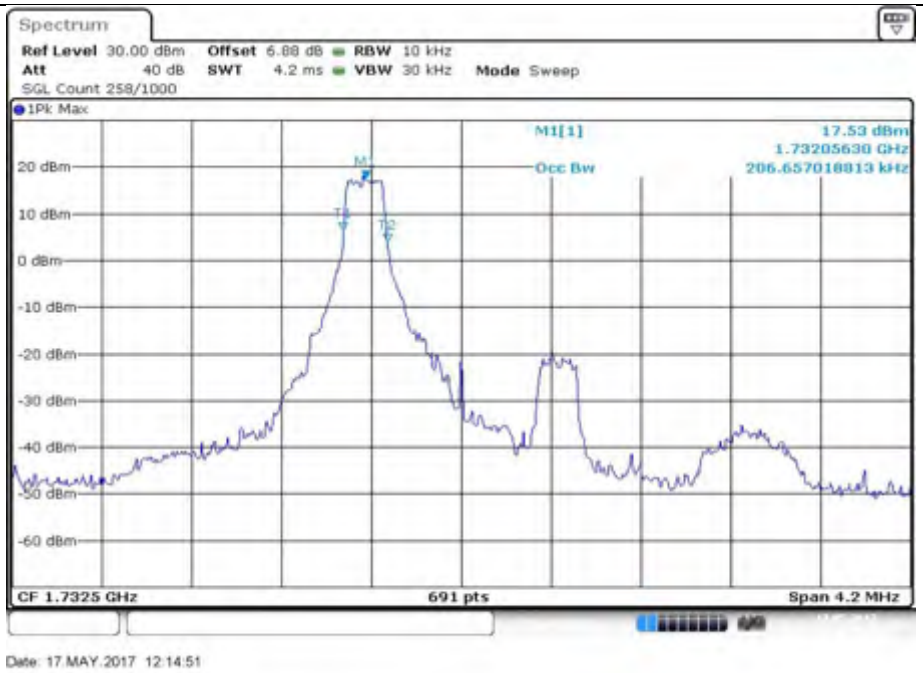

Fig.1

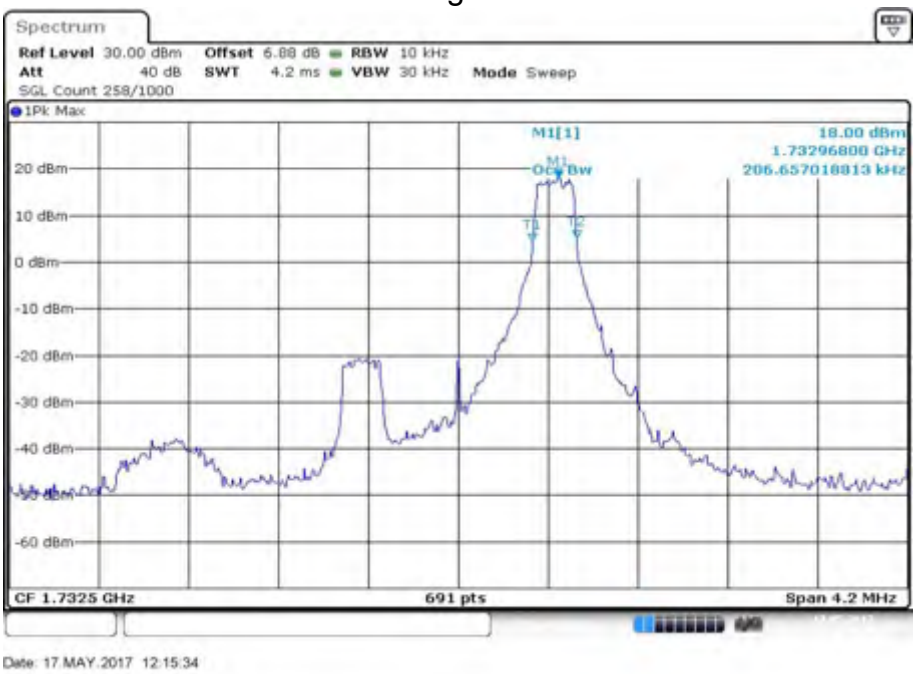

Fig.2

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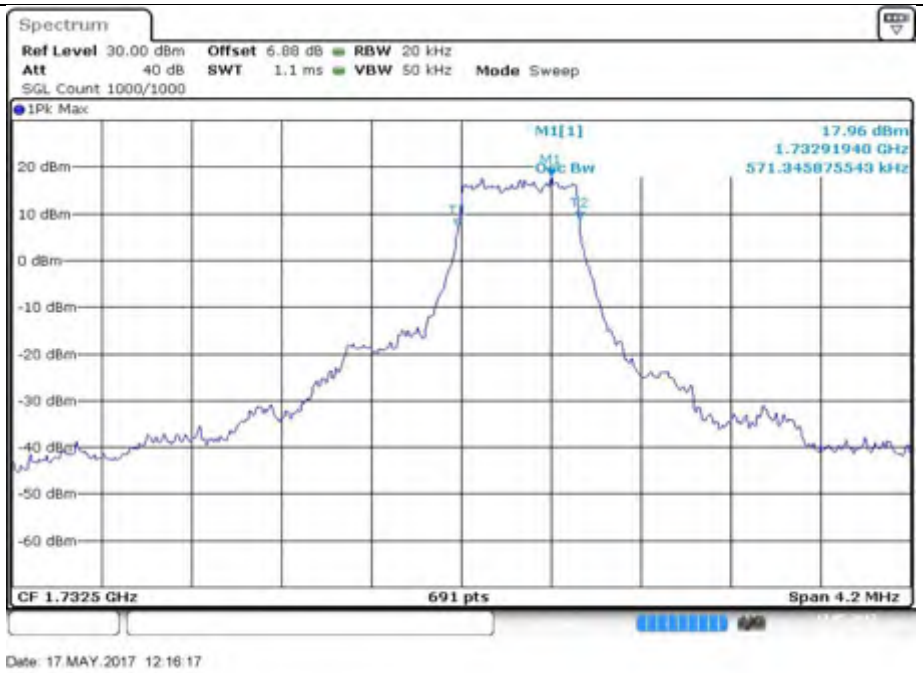

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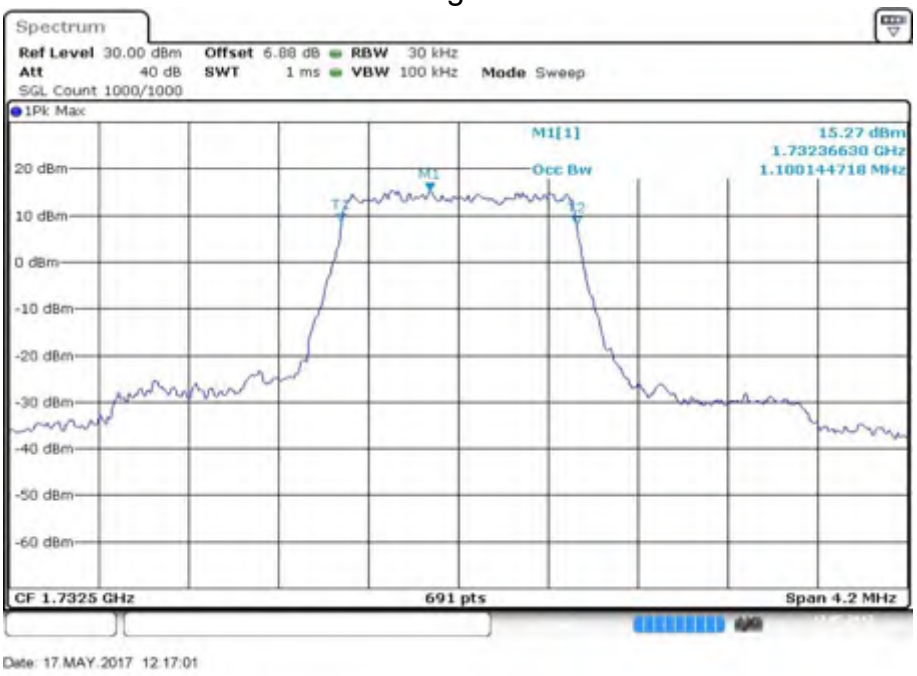

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Fig.4

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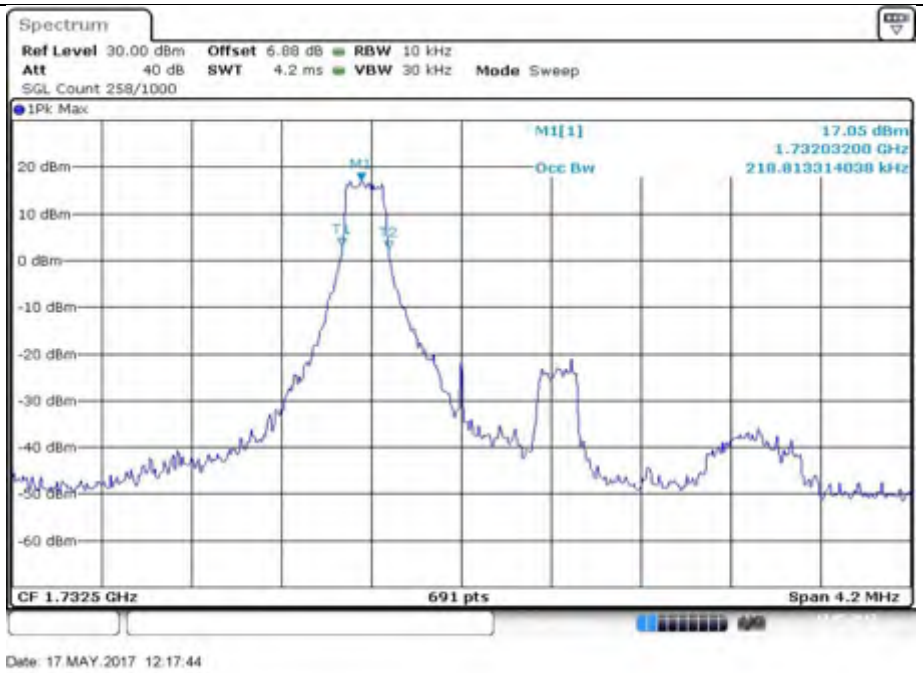

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Fig.5

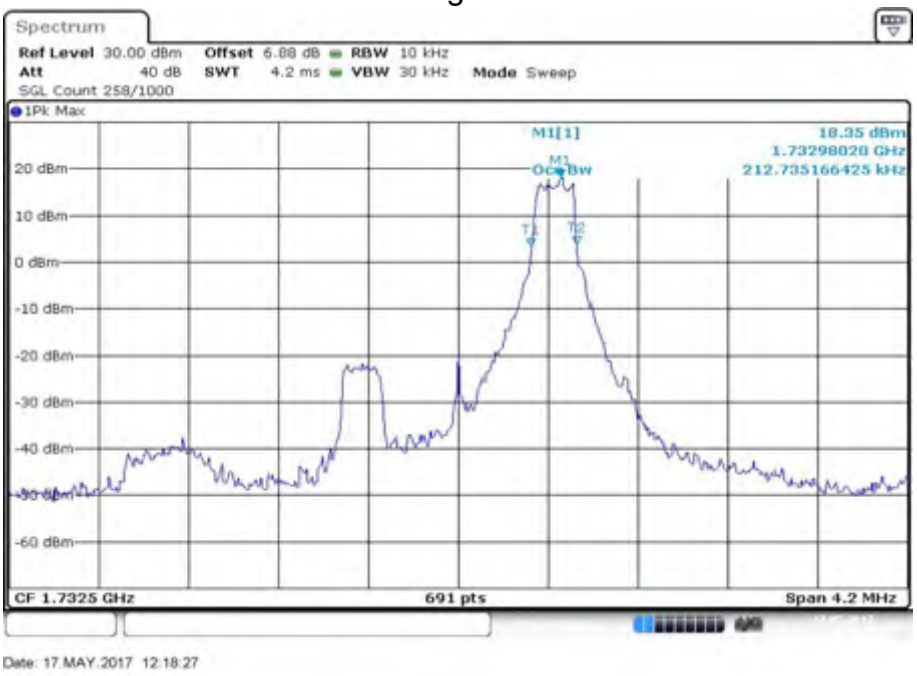

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Fig.6

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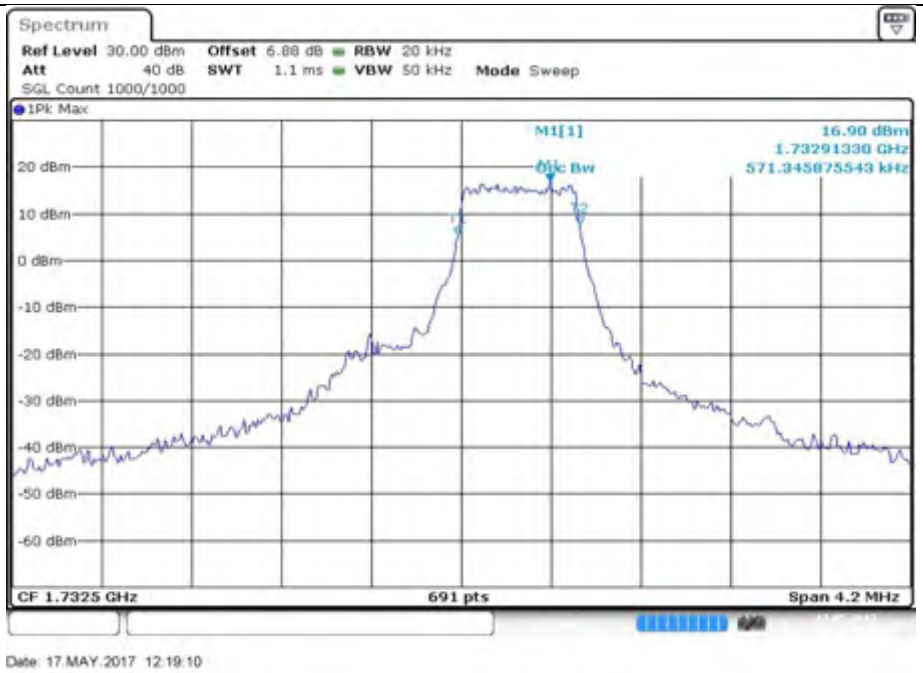

Fig.7

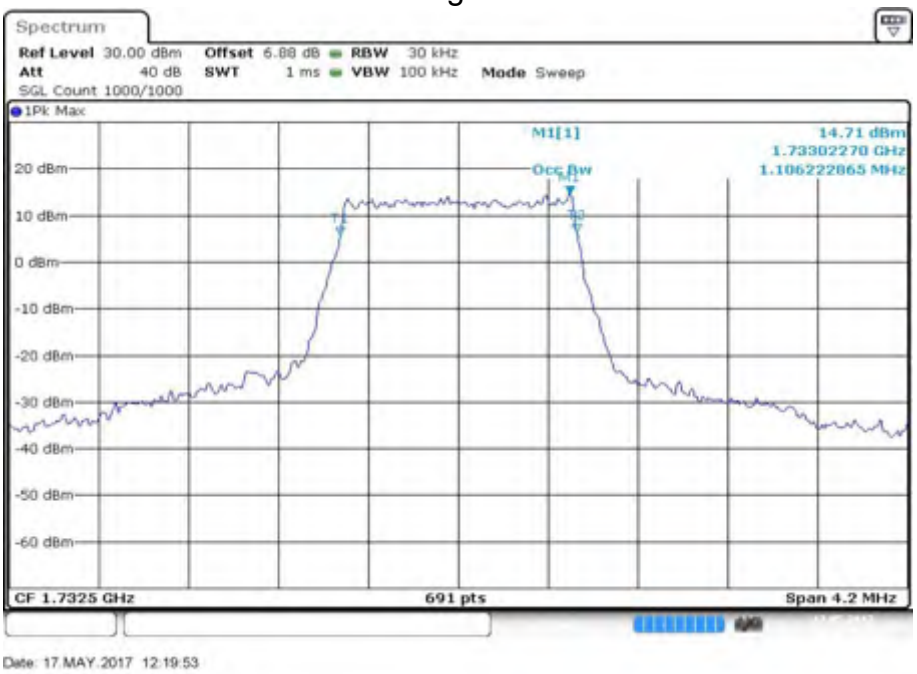

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	715.3	23173	1.4	1	0	0.213	Fig.1	0.231	Fig.5
				1	5	0.207	Fig.2	0.213	Fig.6
				3	2	0.571	Fig.3	0.571	Fig.7
				6	0	1.100	Fig.4	1.100	Fig.8

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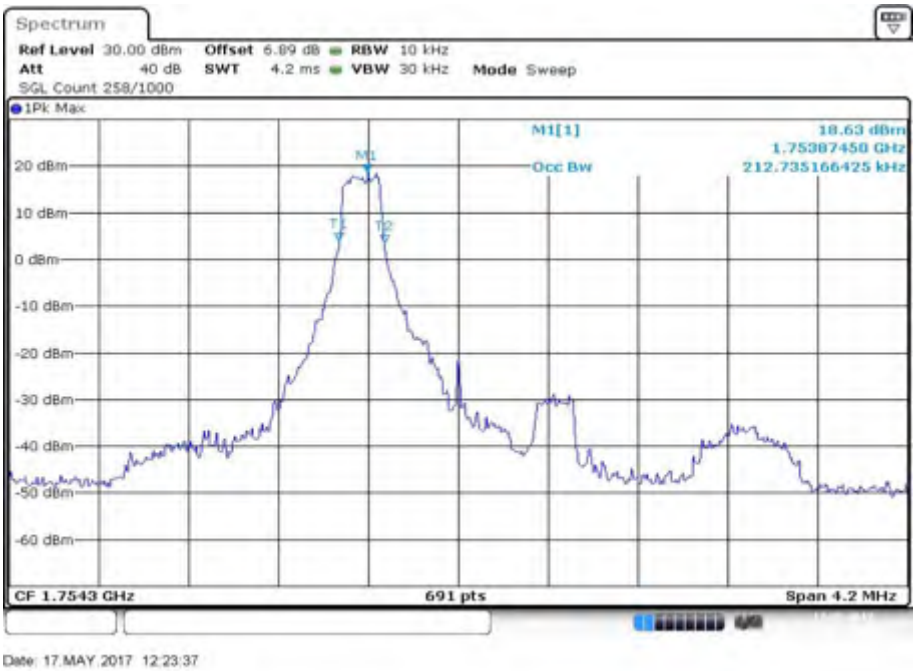

Fig.1

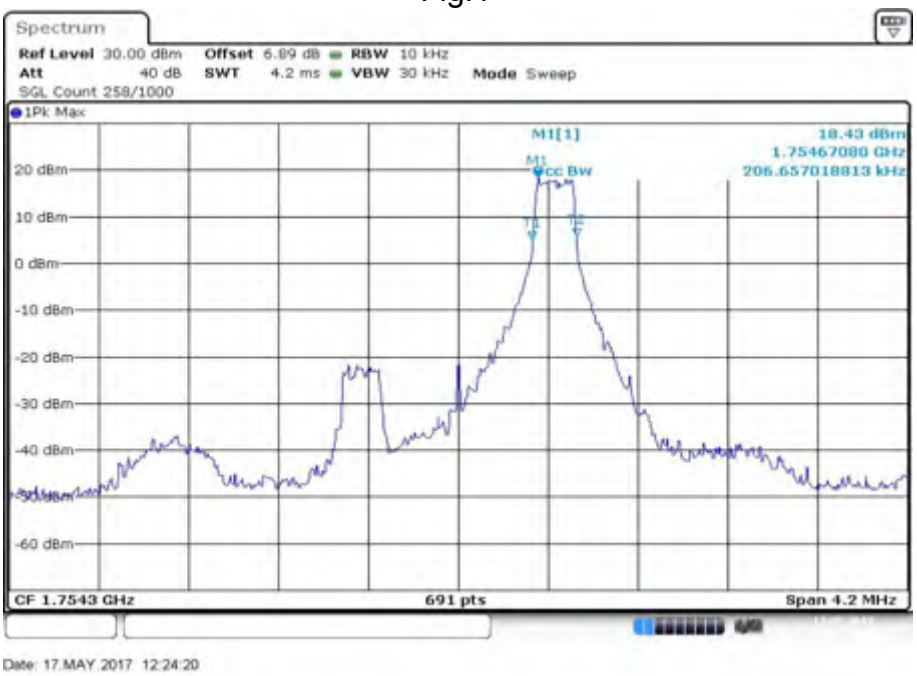

Fig.2

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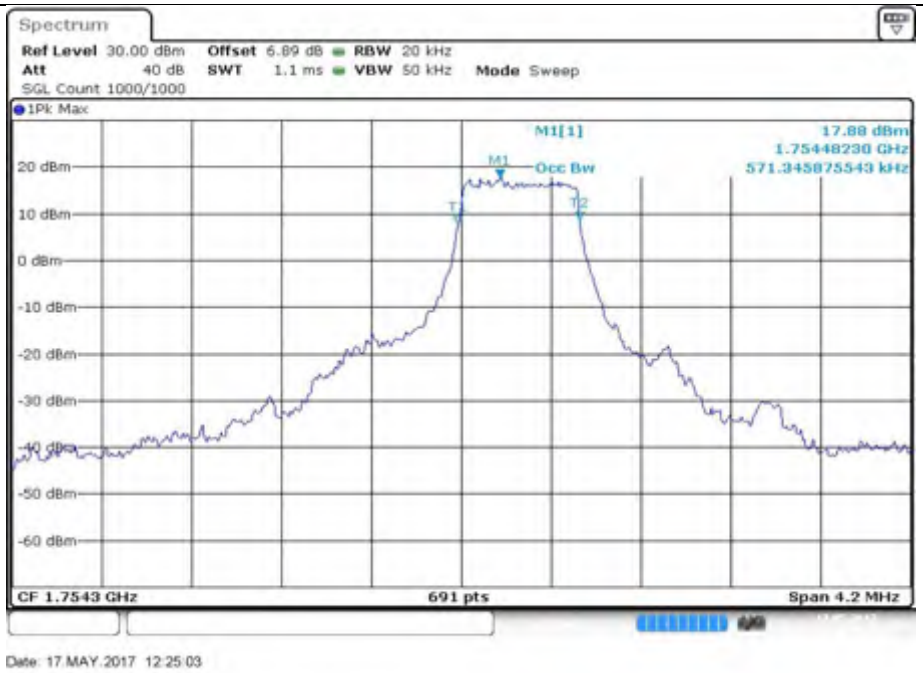

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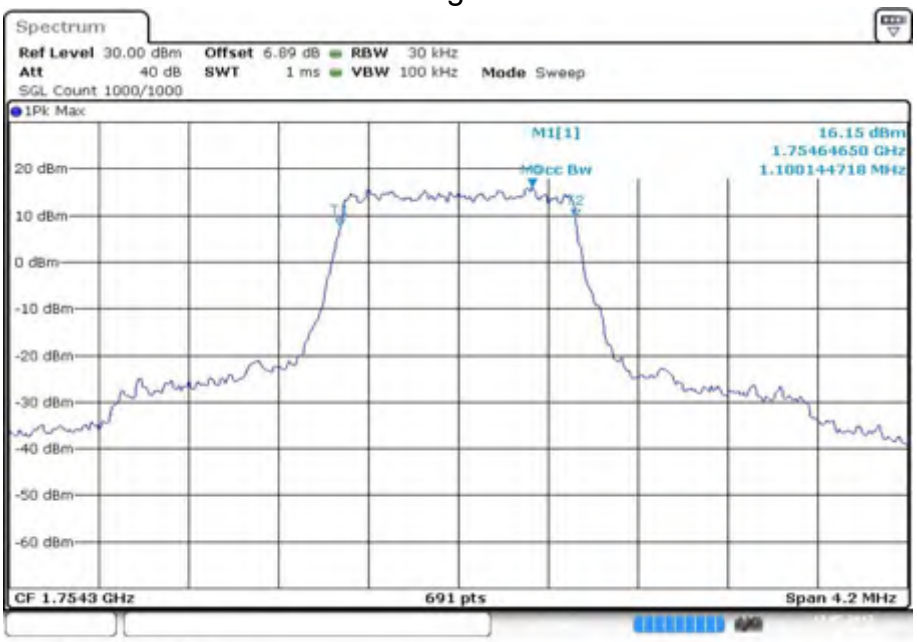

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Fig.4

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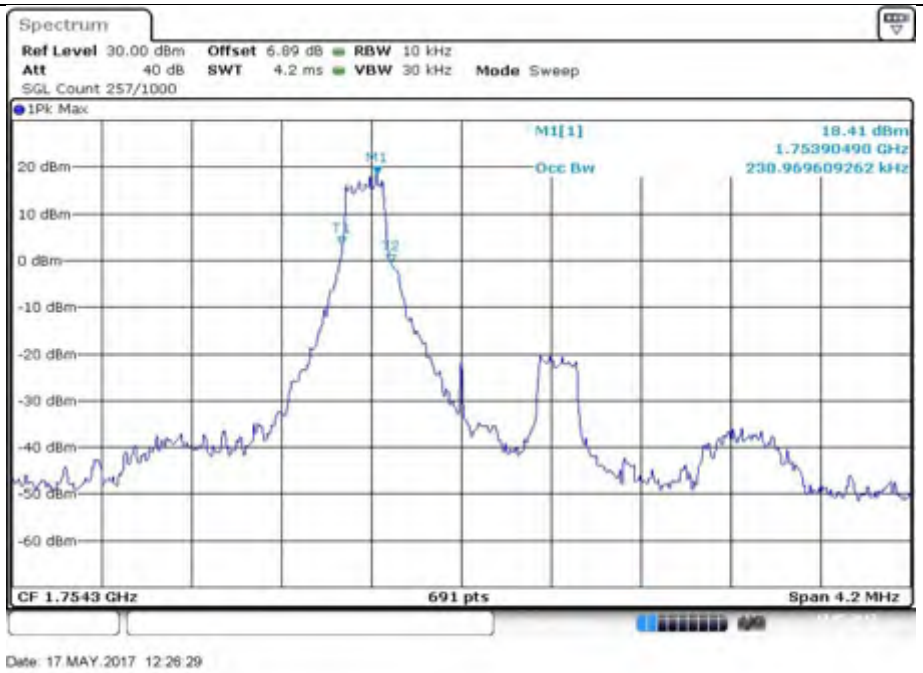

Fig.5

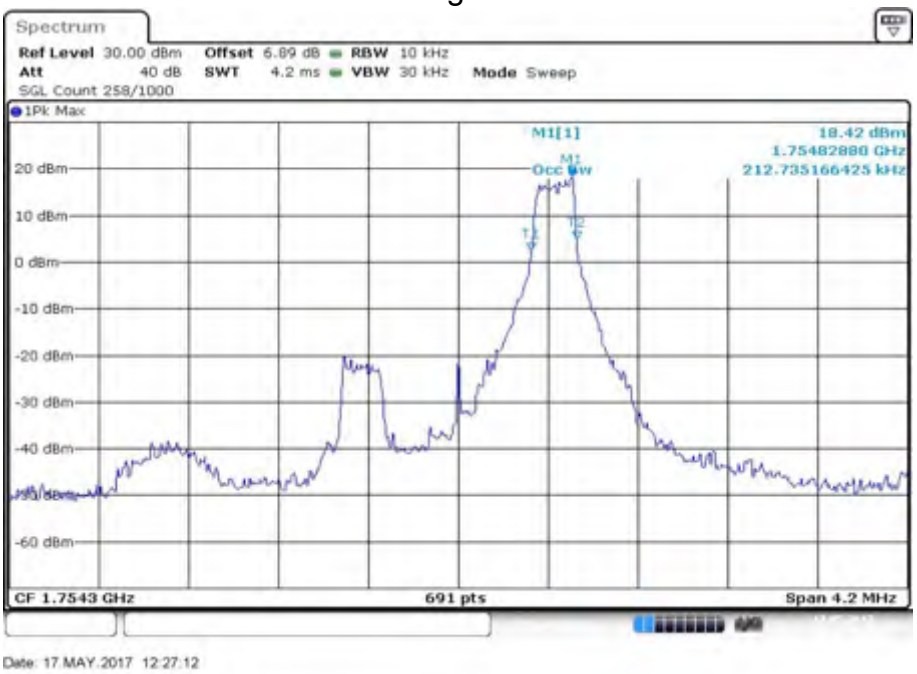

Fig.6

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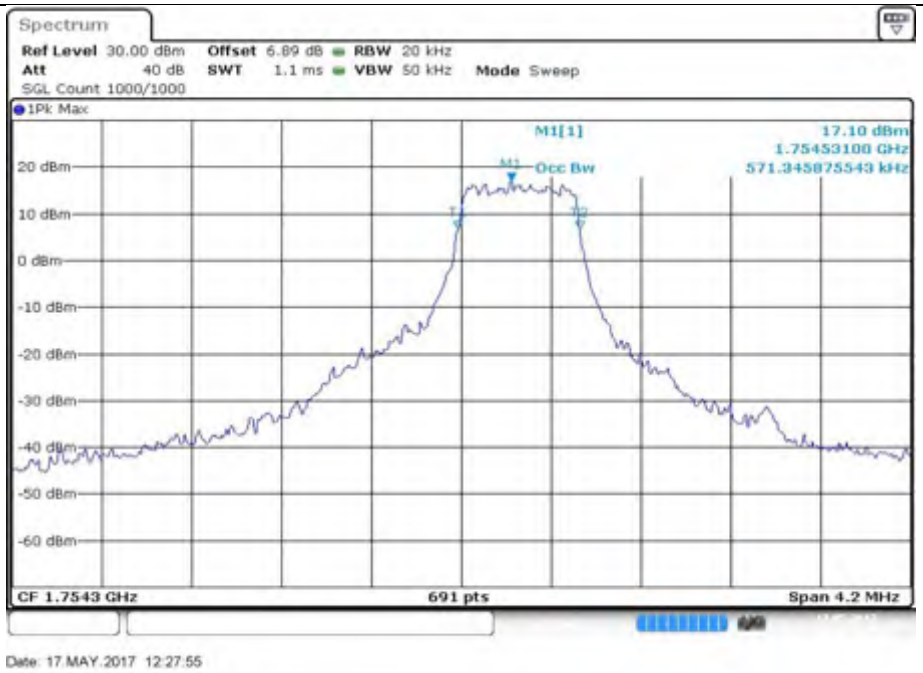

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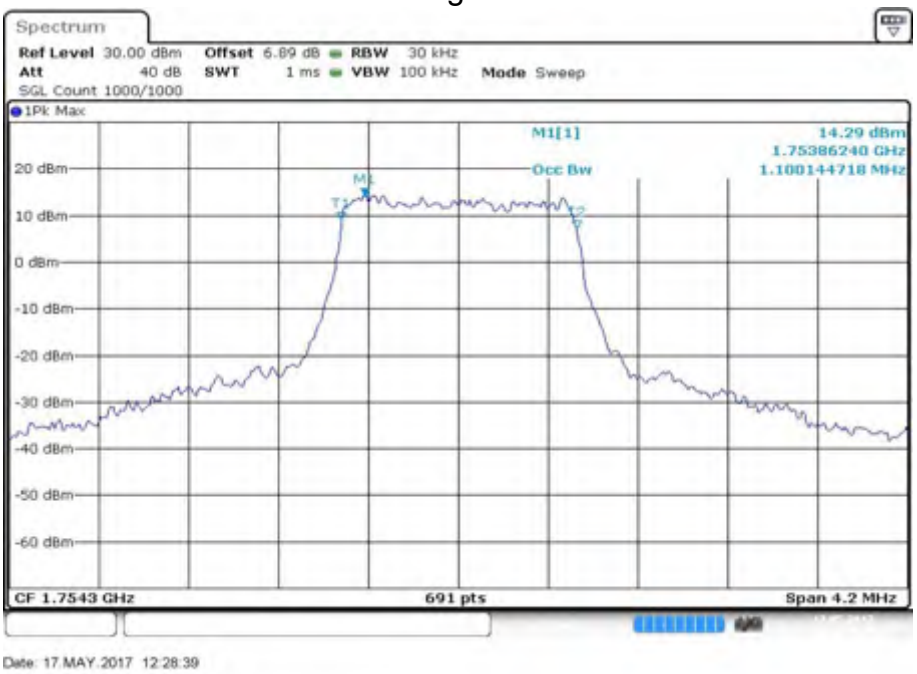

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	700.5	23025	3	1	0	0.208	Fig.1	0.208	Fig.5
				1	14	0.221	Fig.2	0.208	Fig.6
				8	4	1.472	Fig.3	1.459	Fig.7
				15	0	2.735	Fig.4	2.722	Fig.8

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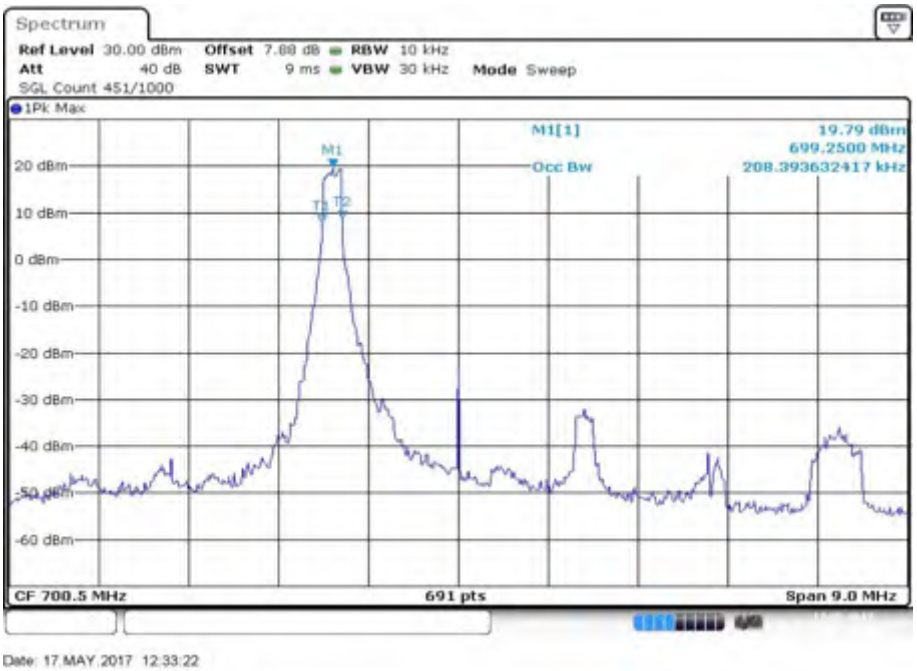

Fig.1

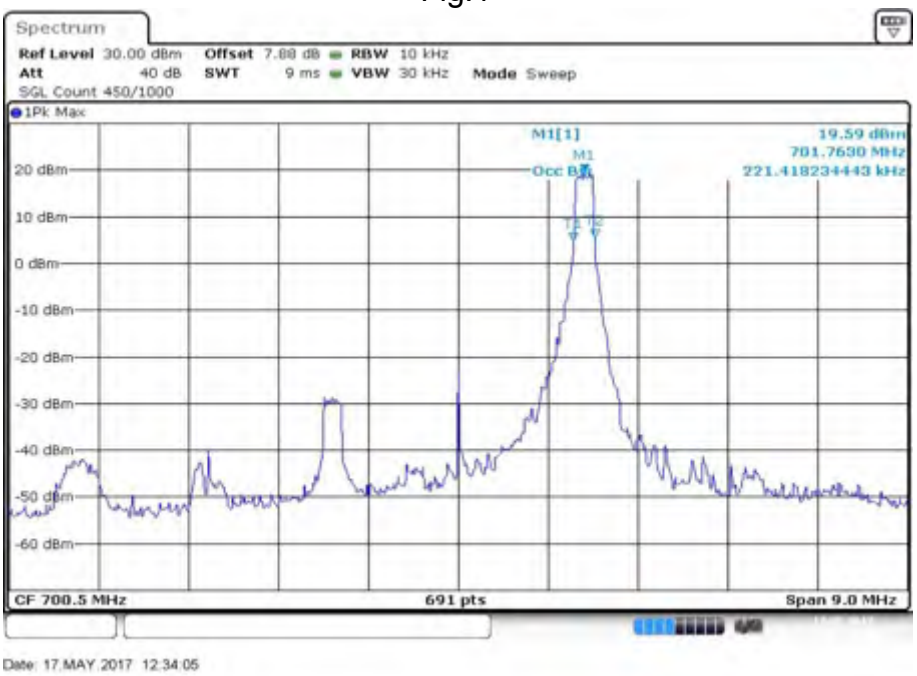

Fig.2

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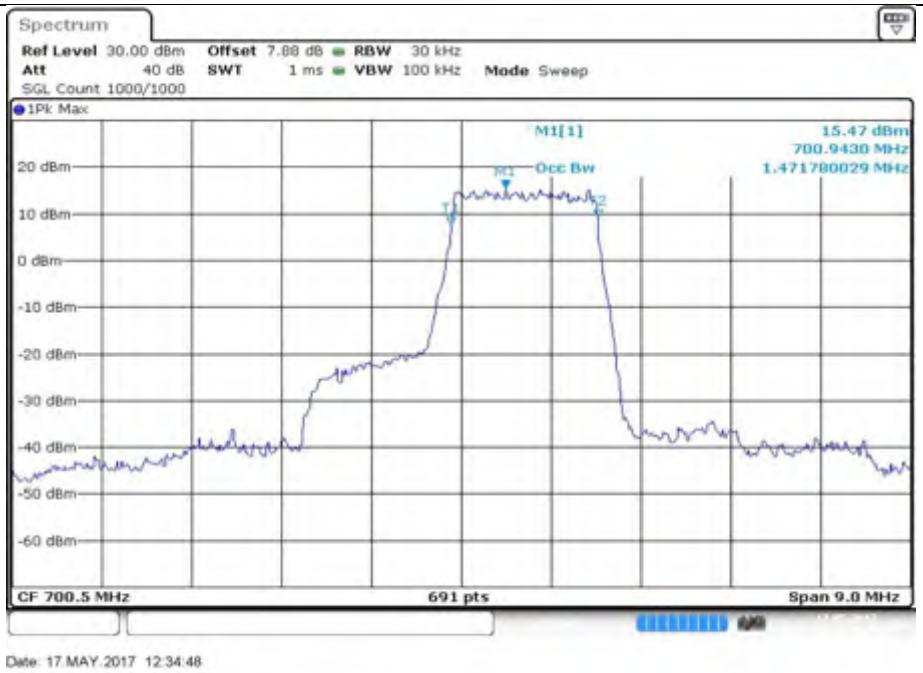

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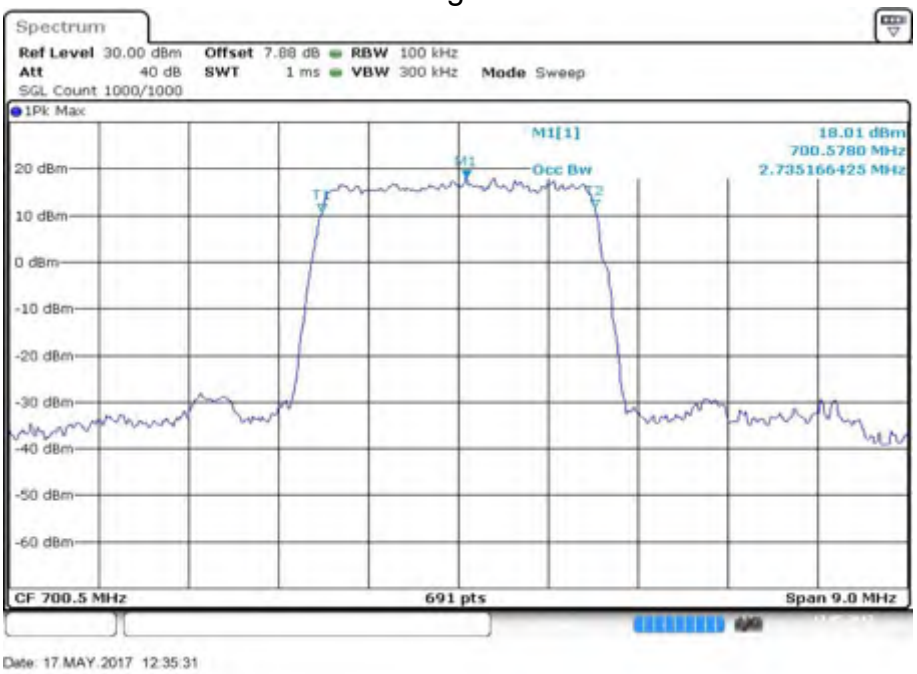

Fig.4

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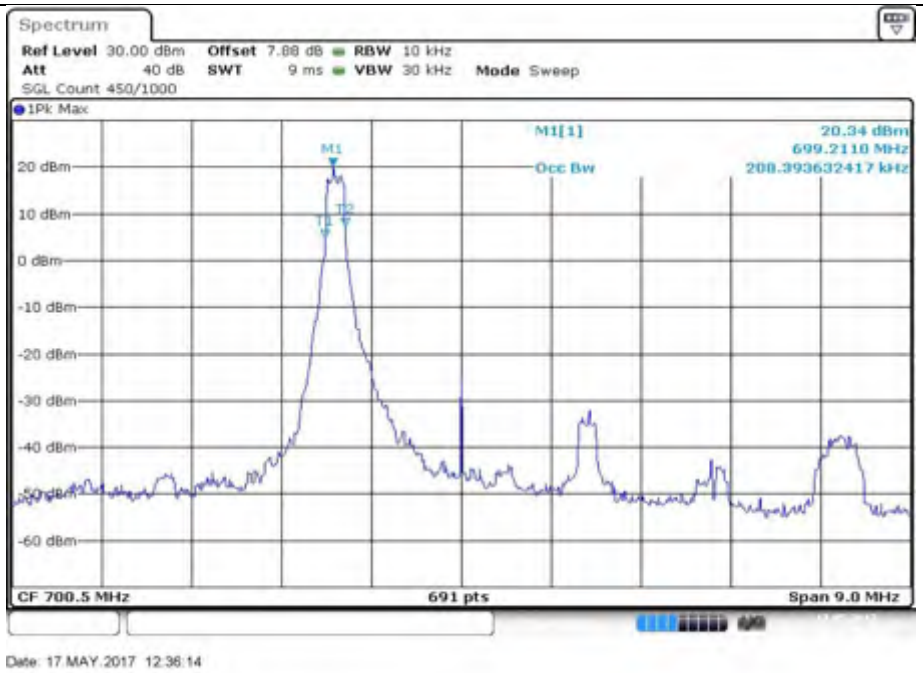

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Fig.5

Date: 17.MAY.2017 12:36:57

Fig.6

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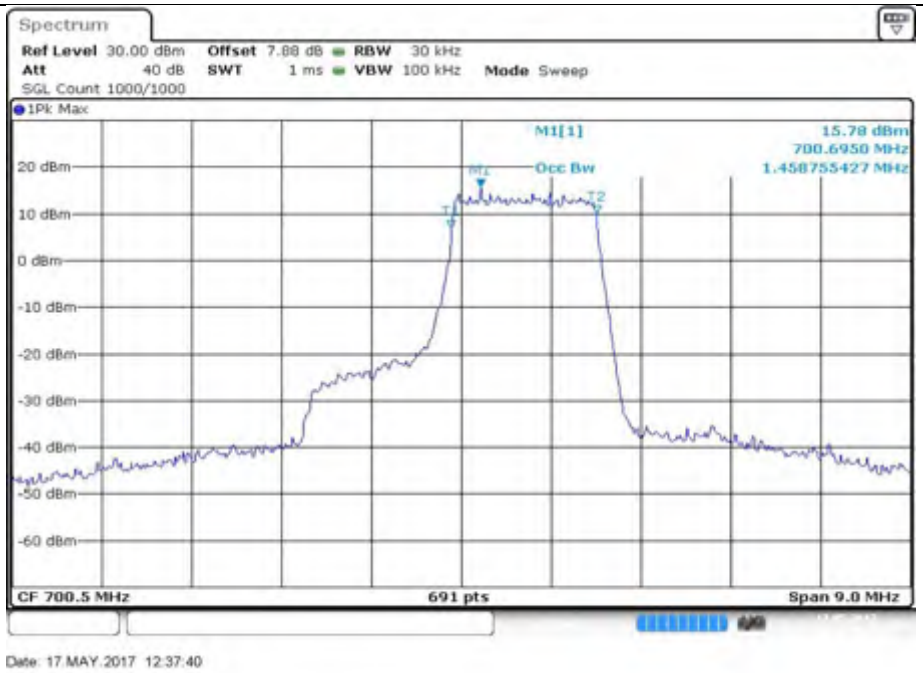

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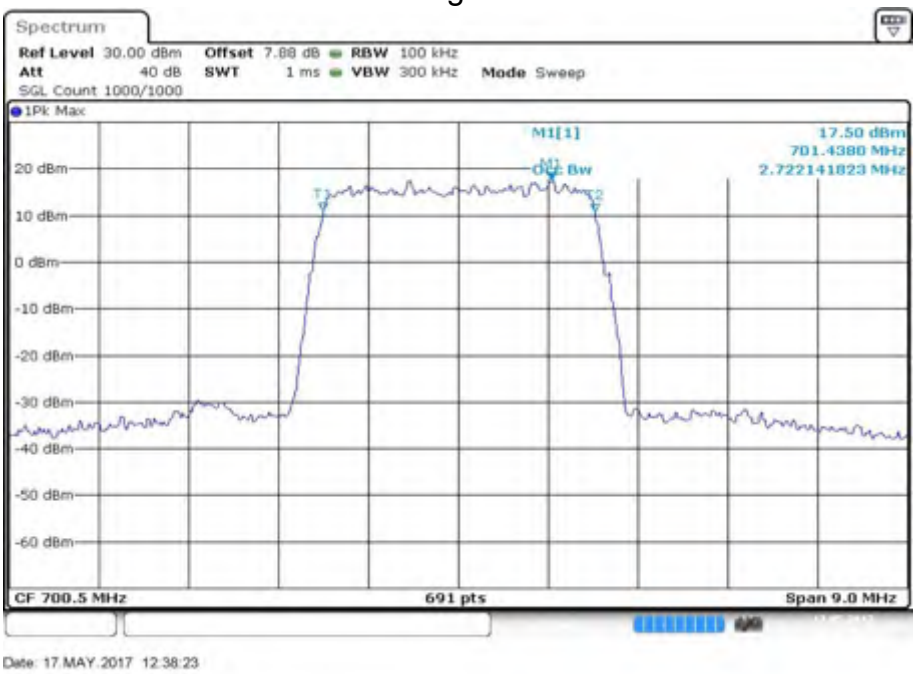

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	707.5	23095	3	1	0	0.221	Fig.1	0.221	Fig.5
				1	14	0.221	Fig.2	0.221	Fig.6
				8	4	1.446	Fig.3	1.459	Fig.7
				15	0	2.748	Fig.4	2.735	Fig.8

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Fig.1

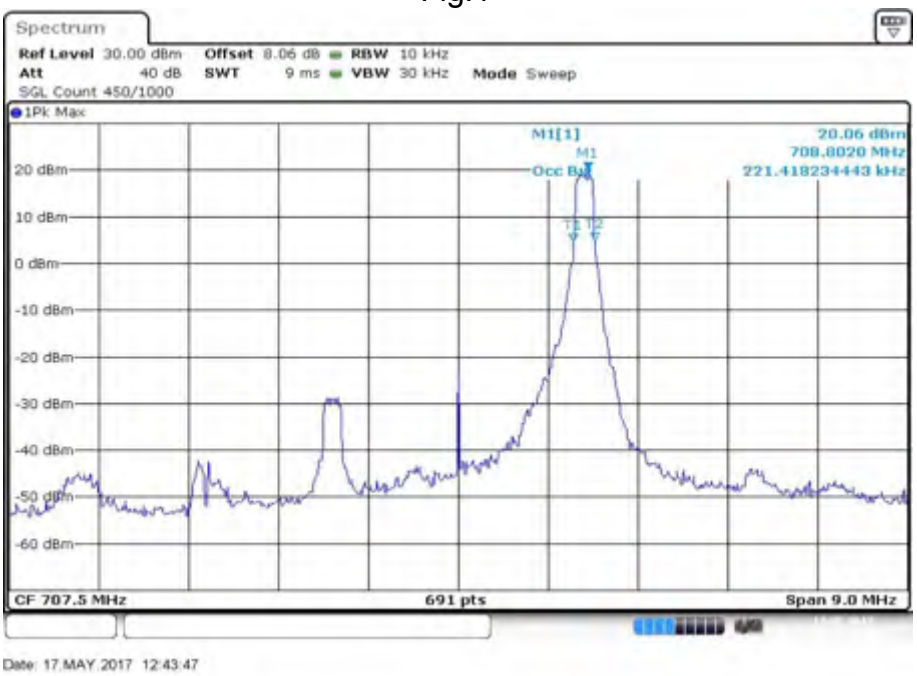

Fig.2

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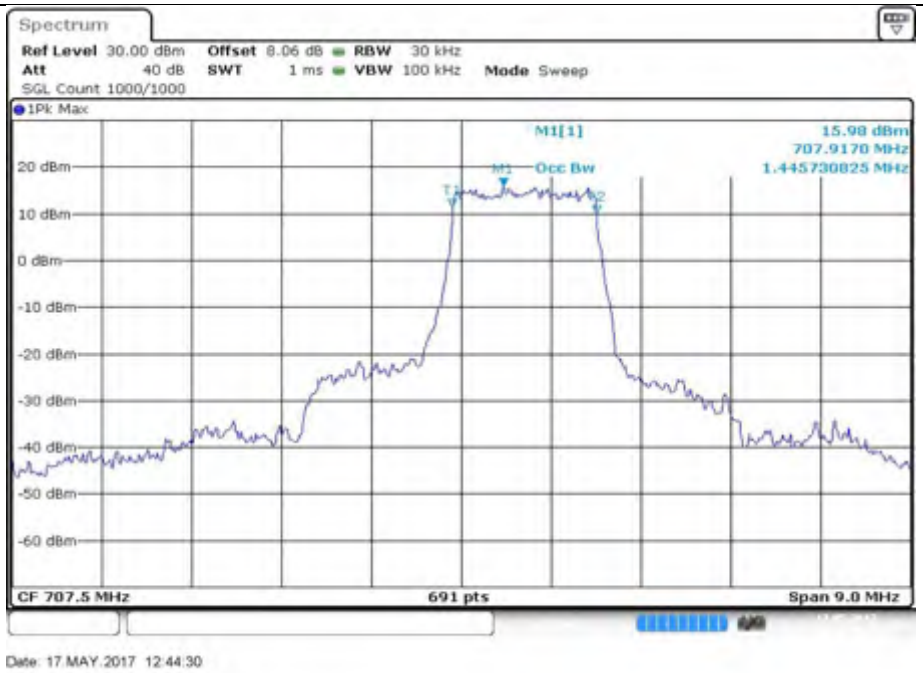

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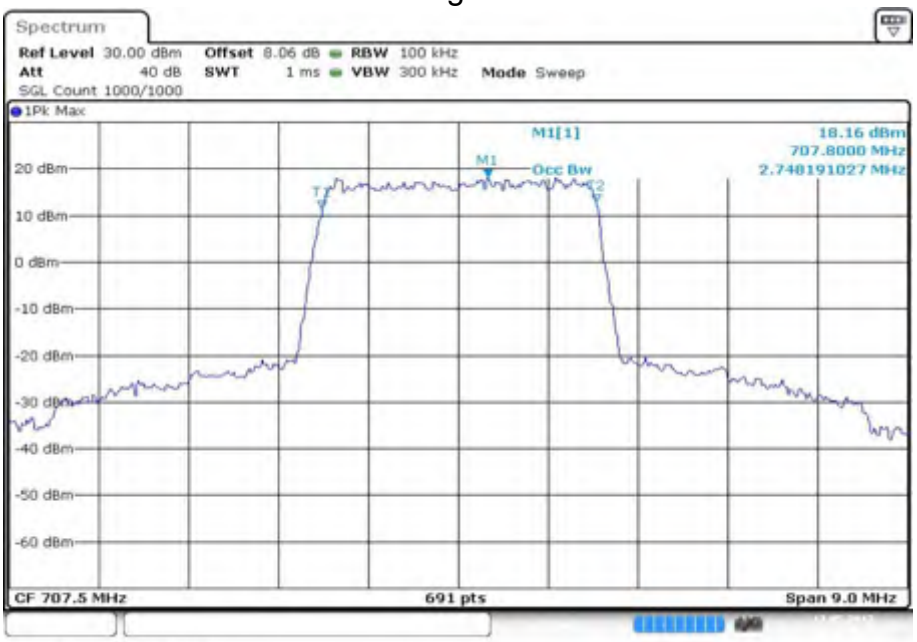

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Fig.4

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Fig.5

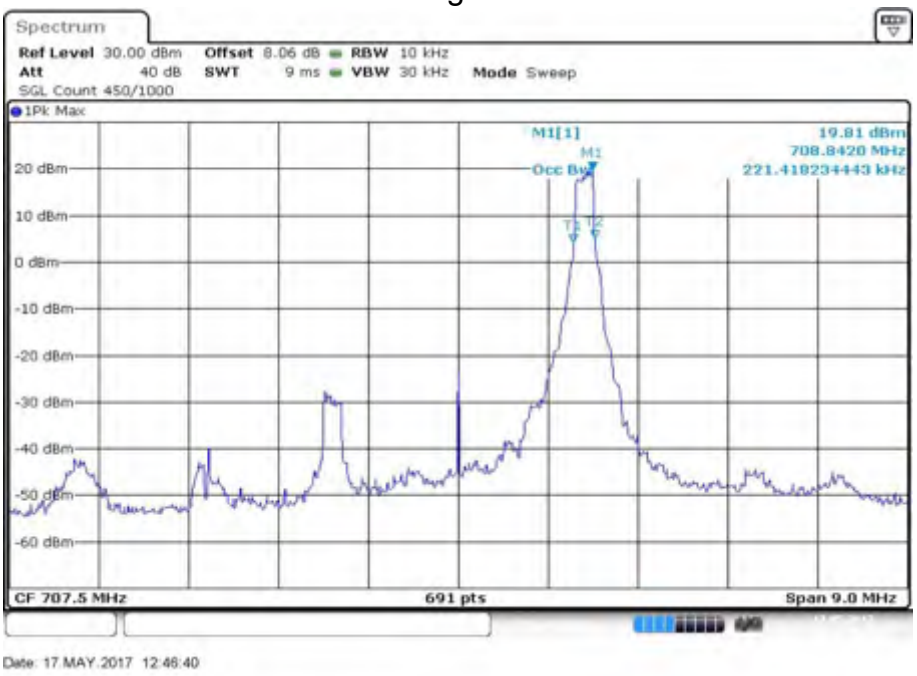

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Fig.6

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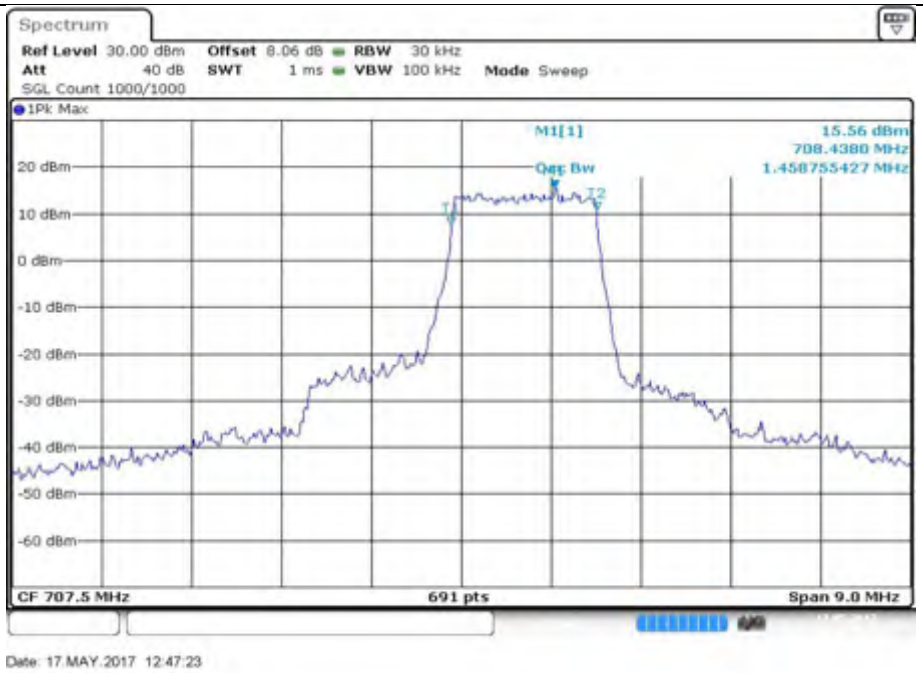

Fig.7

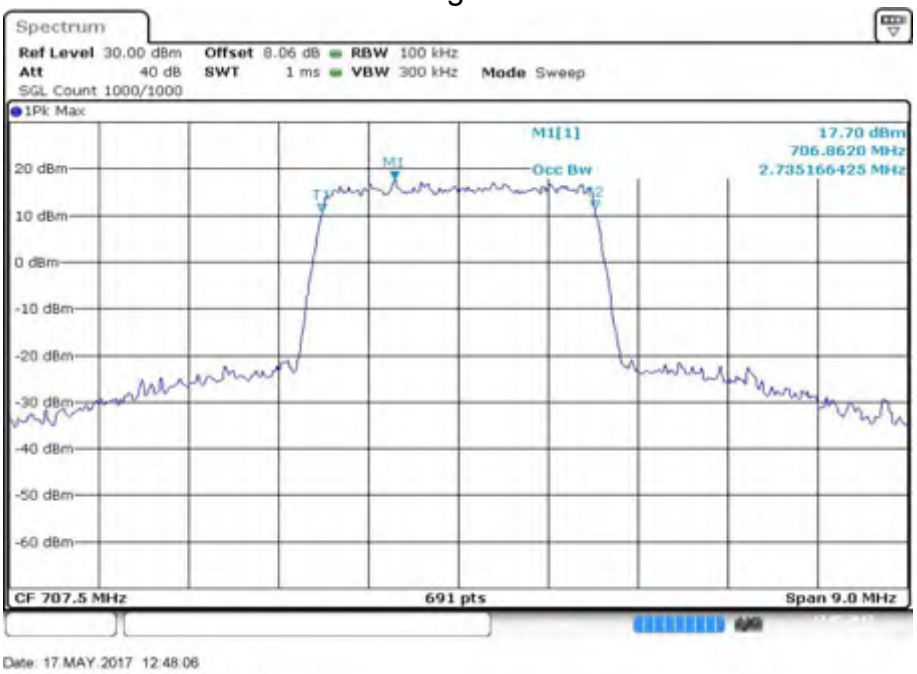

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	714.5	23165	3	1	0	0.221	Fig.1	0.221	Fig.5
				1	14	0.221	Fig.2	0.221	Fig.6
				8	4	1.446	Fig.3	1.459	Fig.7
				15	0	2.735	Fig.4	2.722	Fig.8

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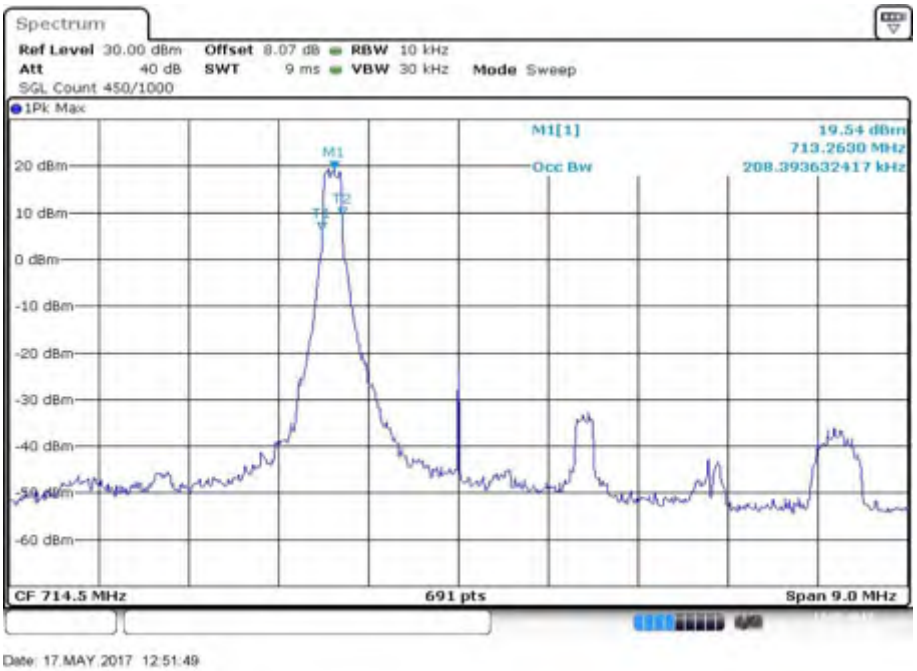

Fig.1

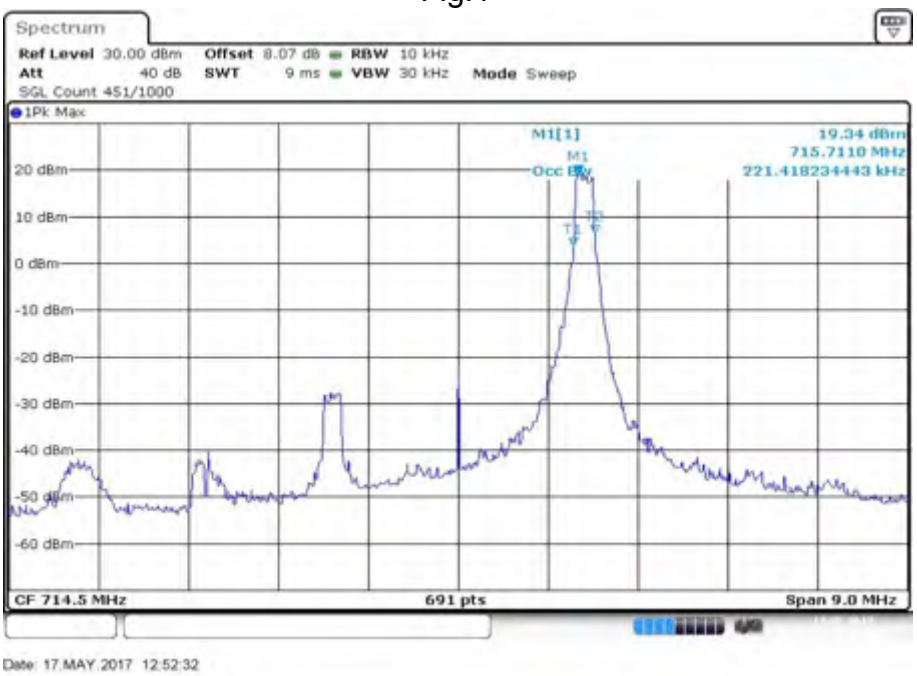

Fig.2

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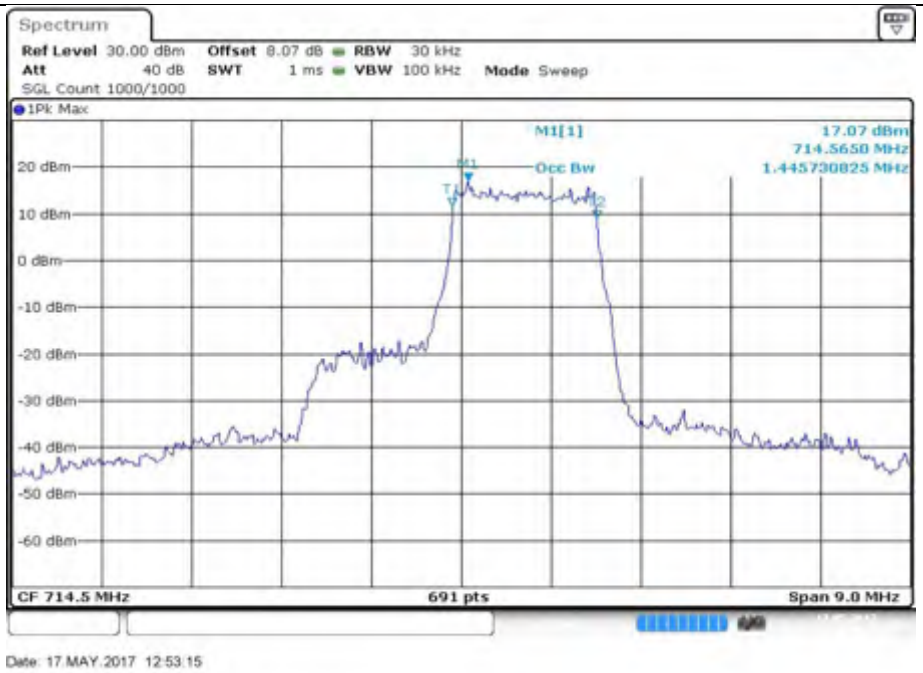

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Fig.3

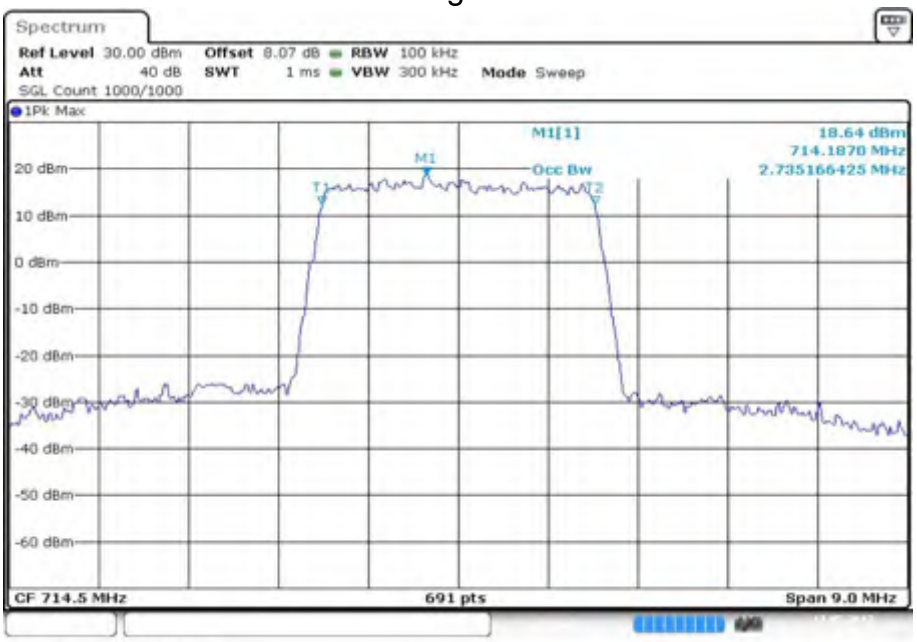

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Fig.4

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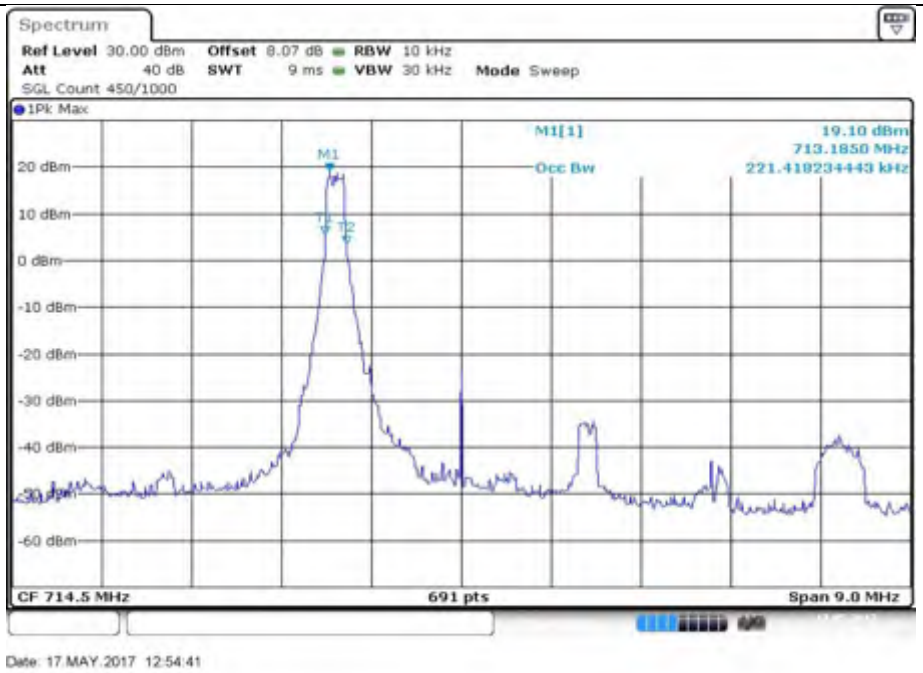

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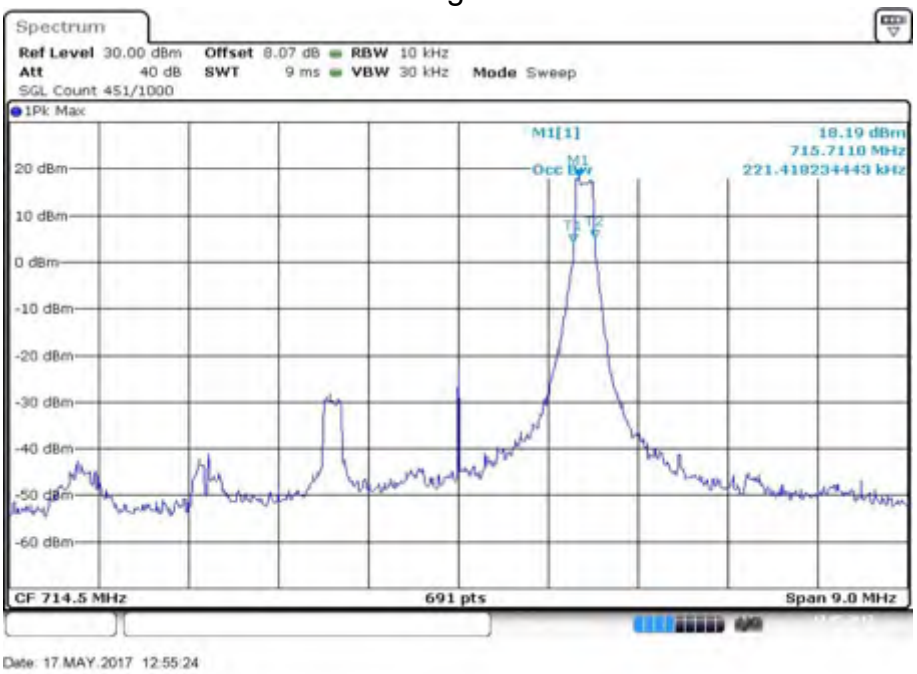

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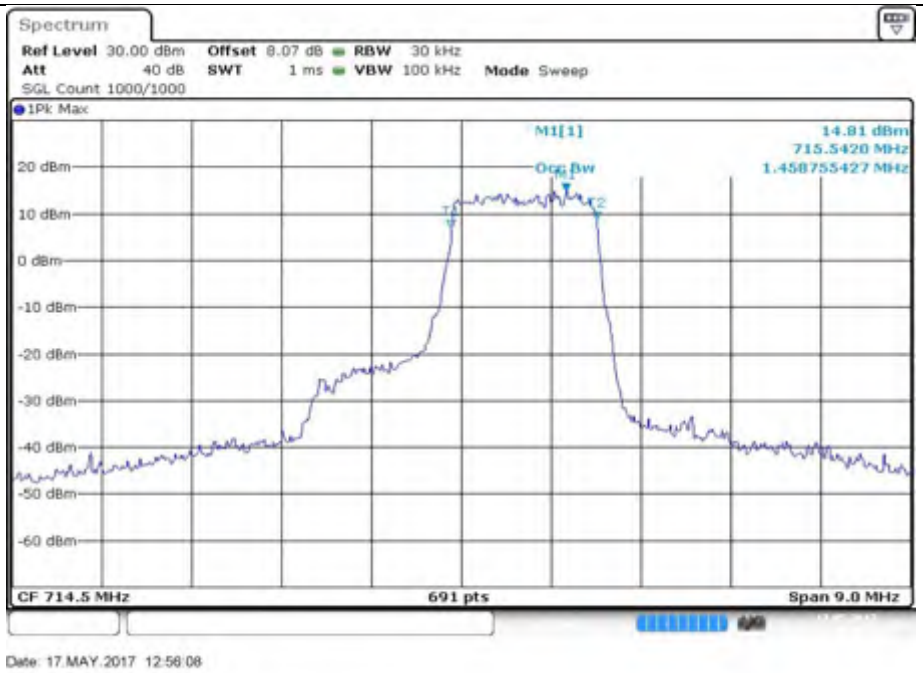

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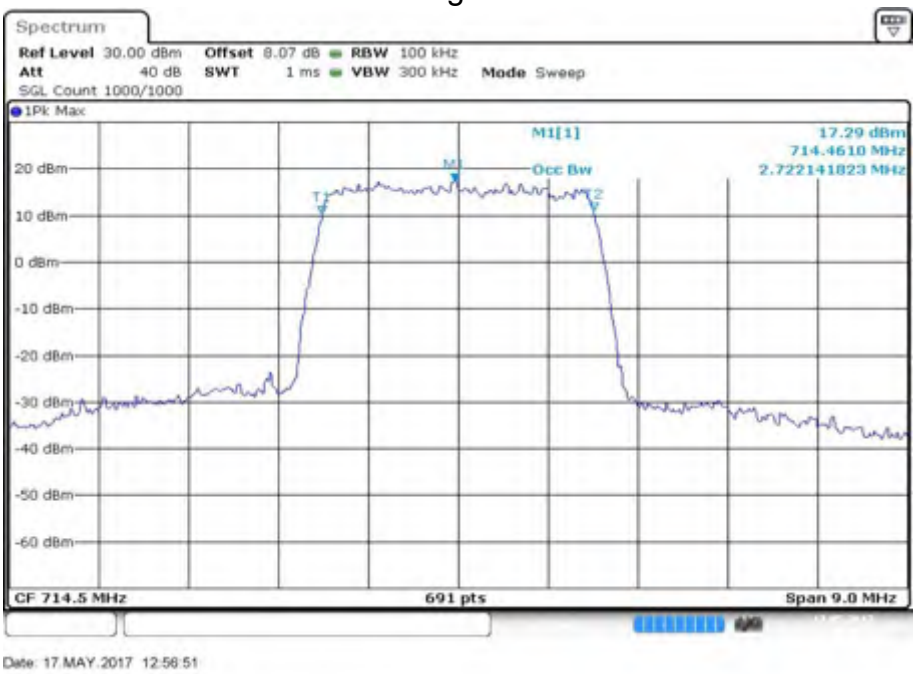

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	701.5	23035	5	1	0	0.239	Fig.1	0.239	Fig.5
				1	24	0.239	Fig.2	0.239	Fig.6
				12	6	2.171	Fig.3	2.171	Fig.7
				25	0	4.537	Fig.4	4.472	Fig.8

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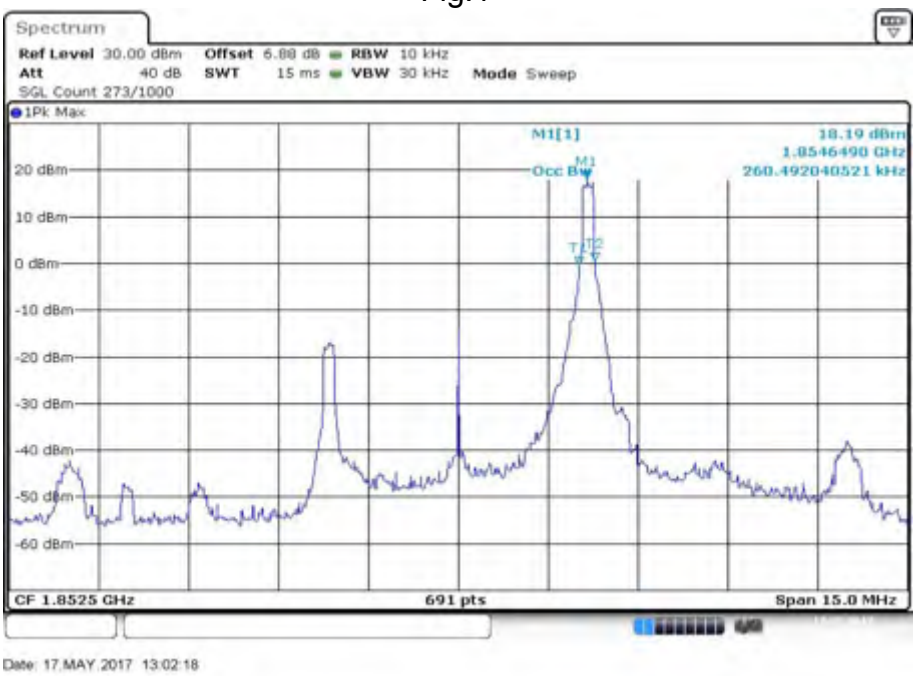
Fig.1



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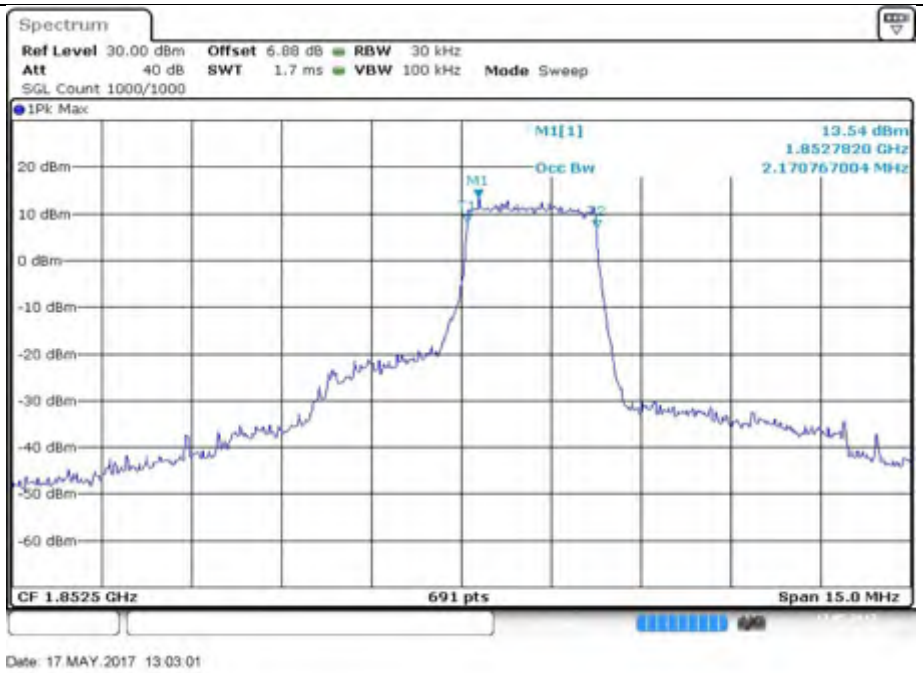

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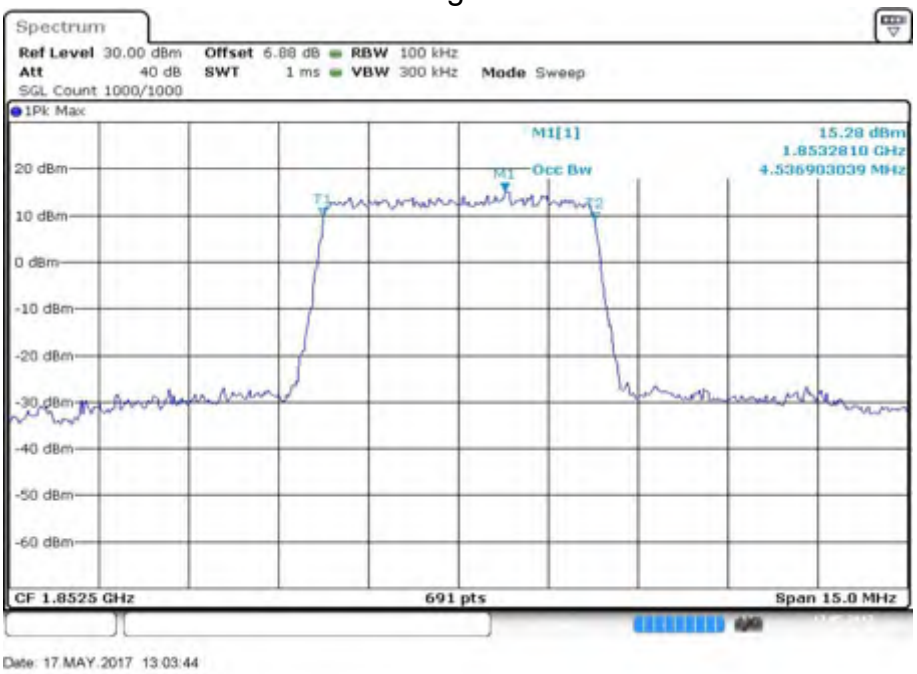

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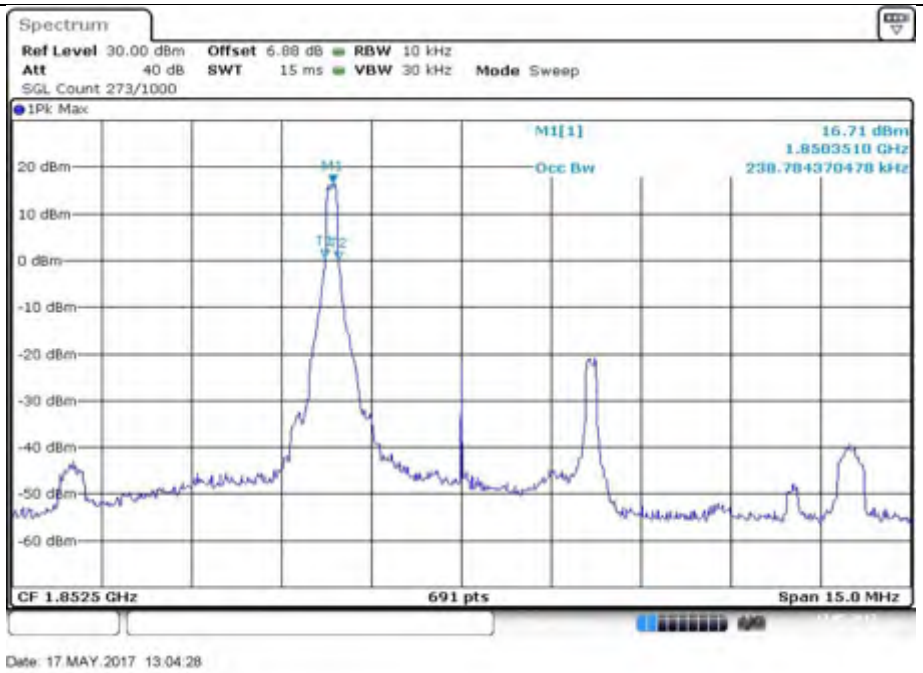

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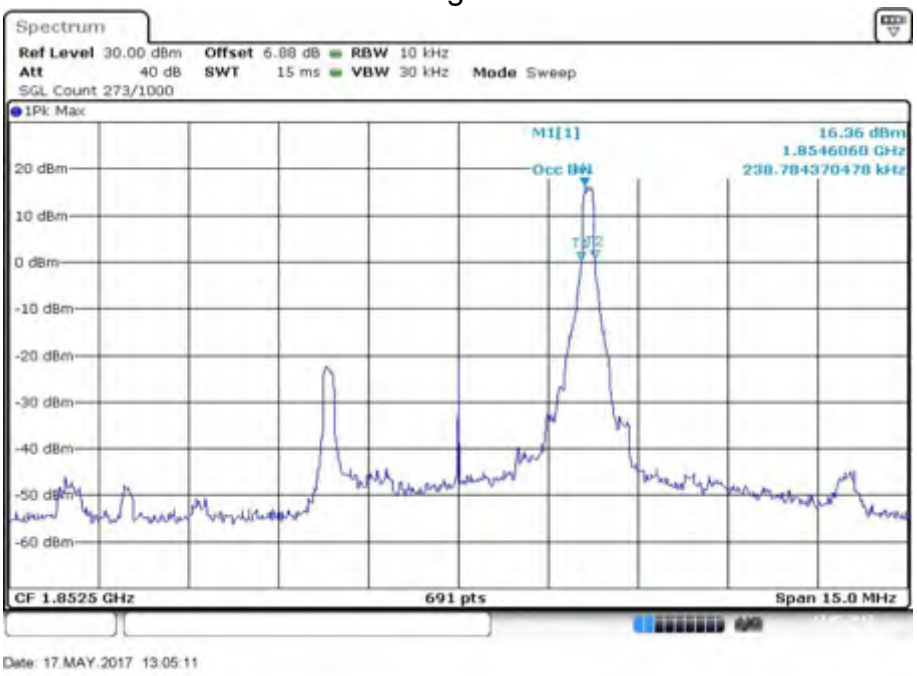

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Fig.6

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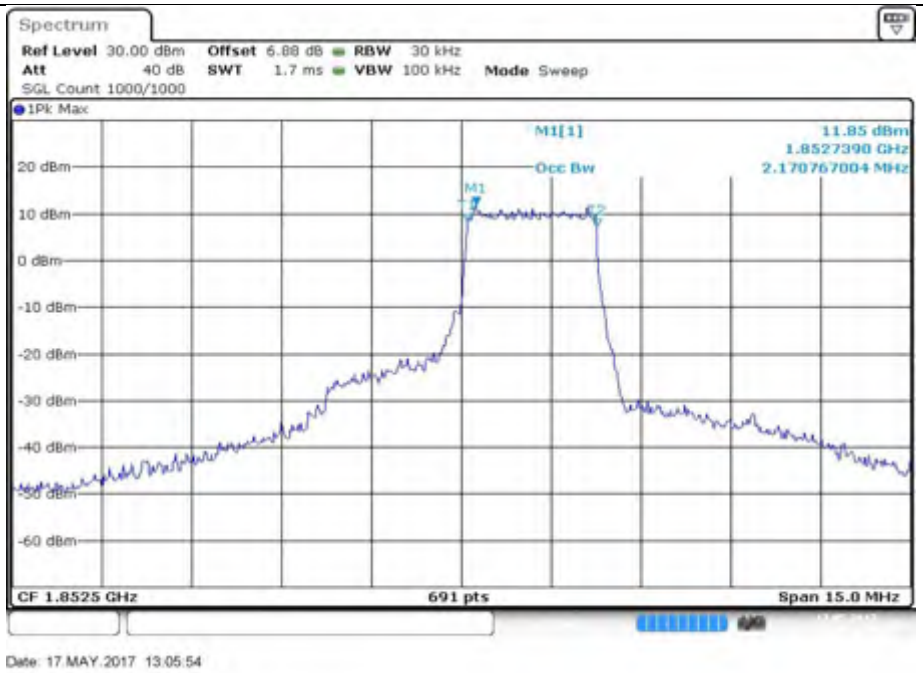

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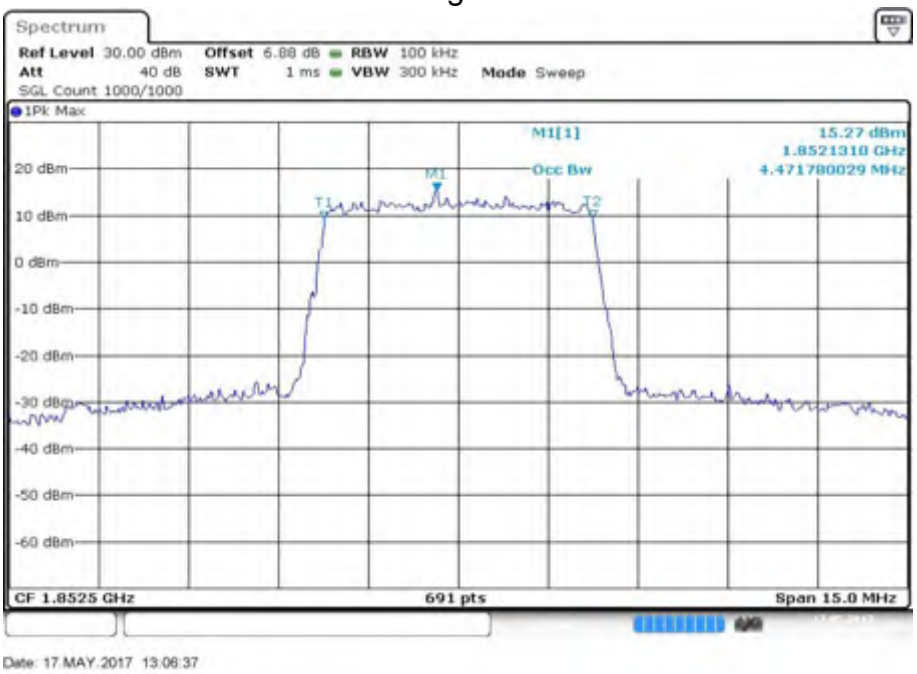

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	707.5	23095	5	1	0	0.239	Fig.1	0.239	Fig.5
				1	24	0.239	Fig.2	0.239	Fig.6
				12	6	2.192	Fig.3	2.171	Fig.7
				25	0	4.515	Fig.4	4.515	Fig.8

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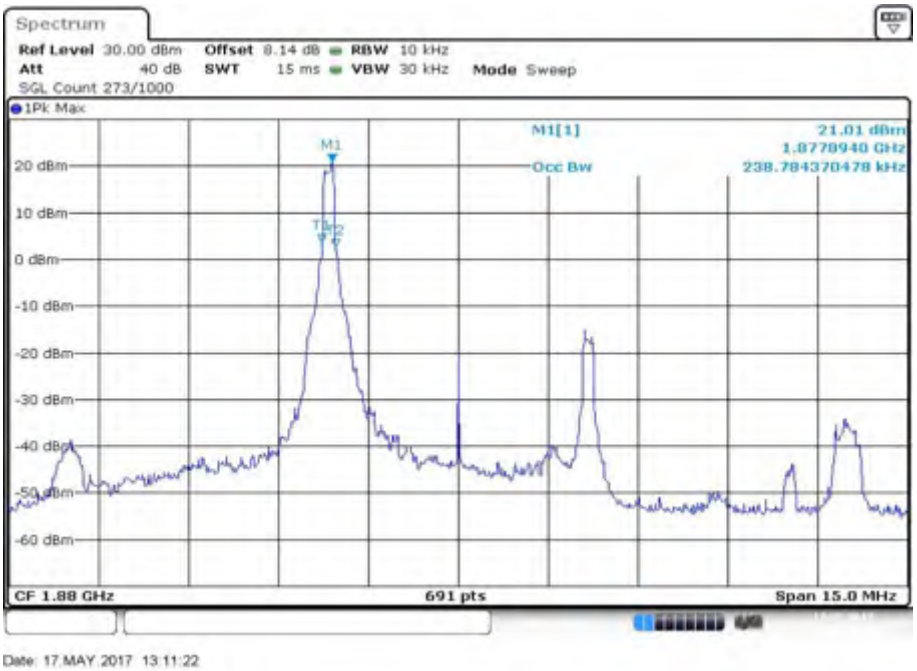

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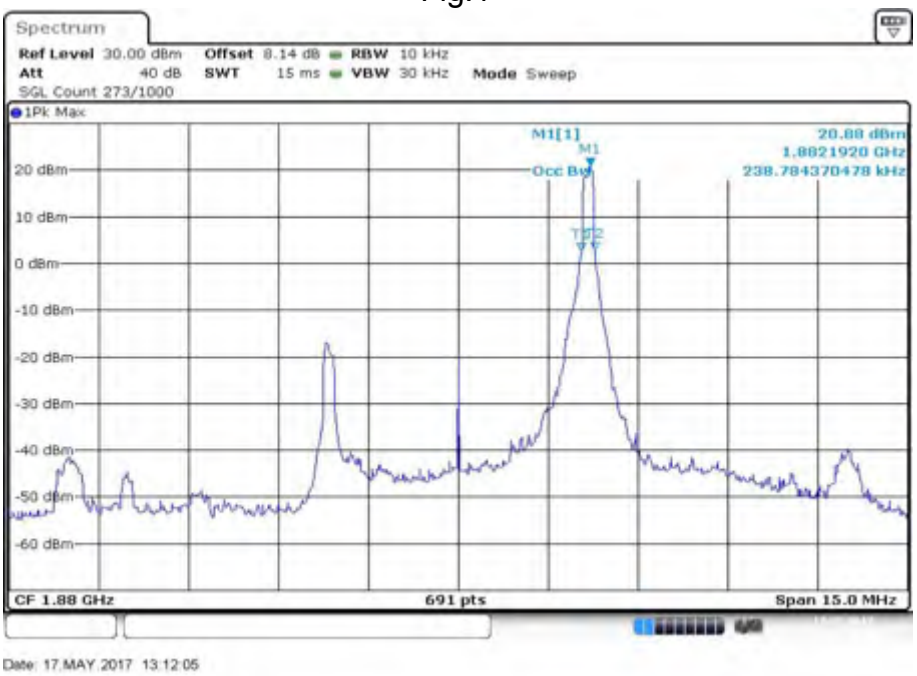

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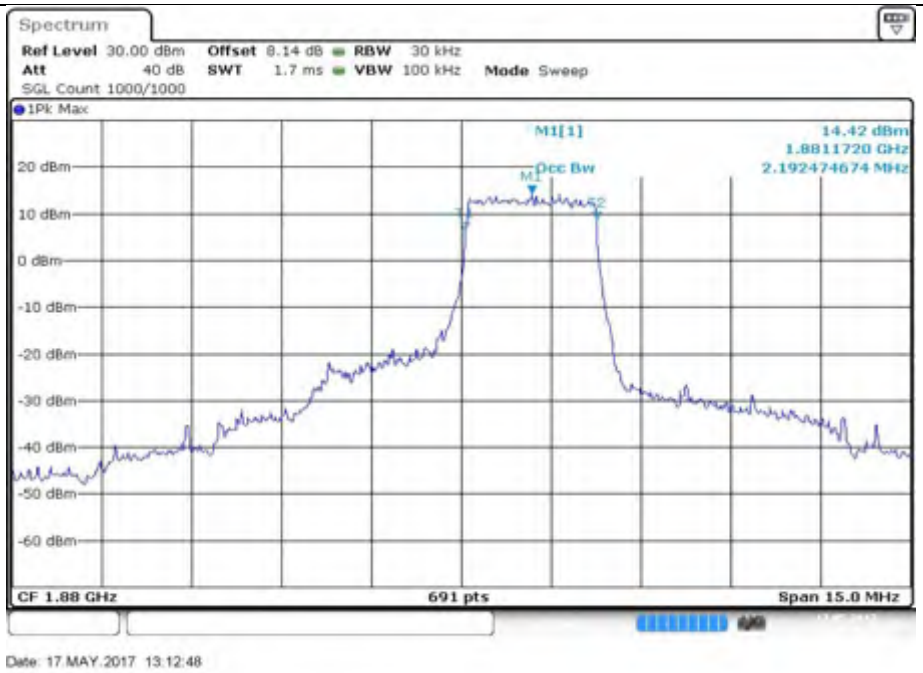

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Fig.3

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Fig.4

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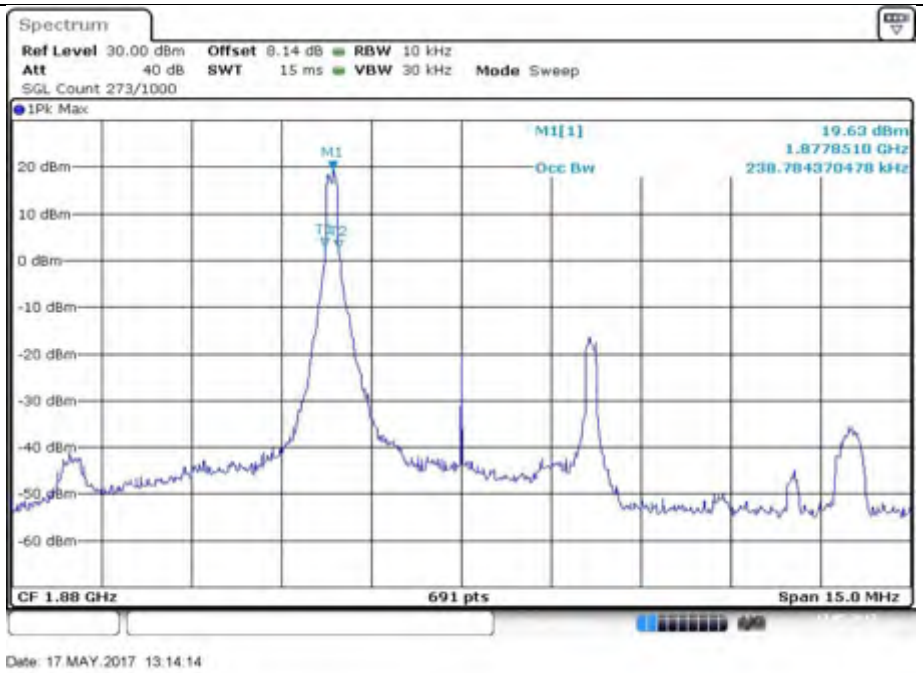

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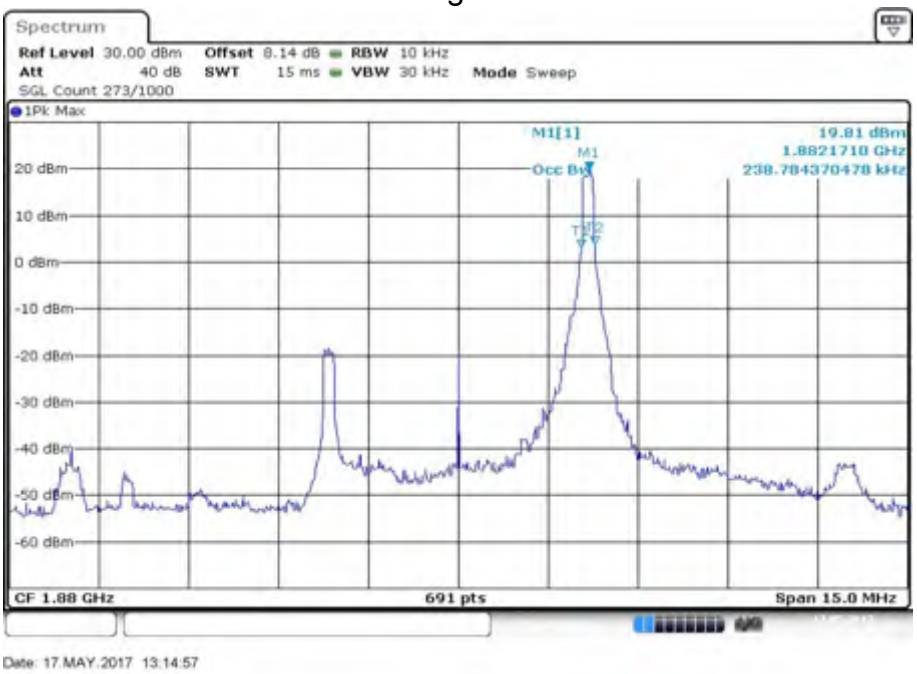

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Fig.6

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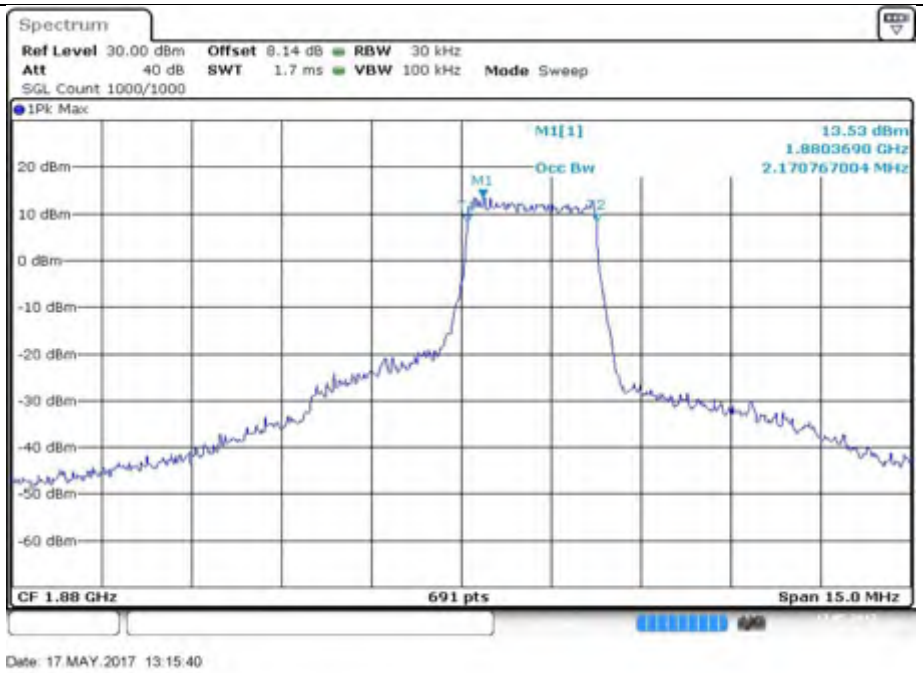

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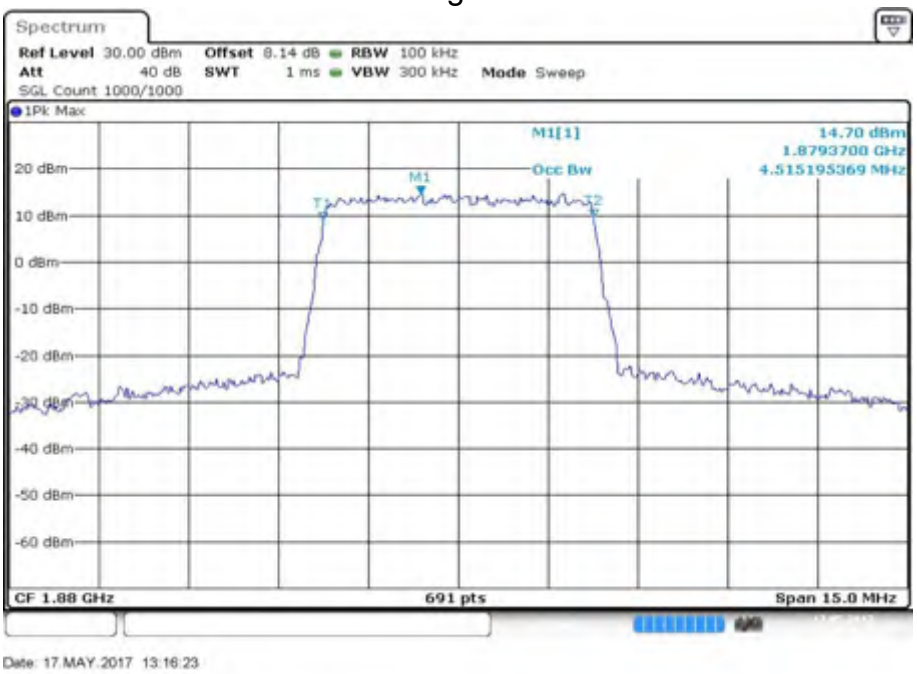

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	713.5	23155	5	1	0	0.239	Fig.1	0.239	Fig.5
				1	24	0.239	Fig.2	0.239	Fig.6
				12	6	2.192	Fig.3	2.171	Fig.7
				25	0	4.493	Fig.4	4.537	Fig.8

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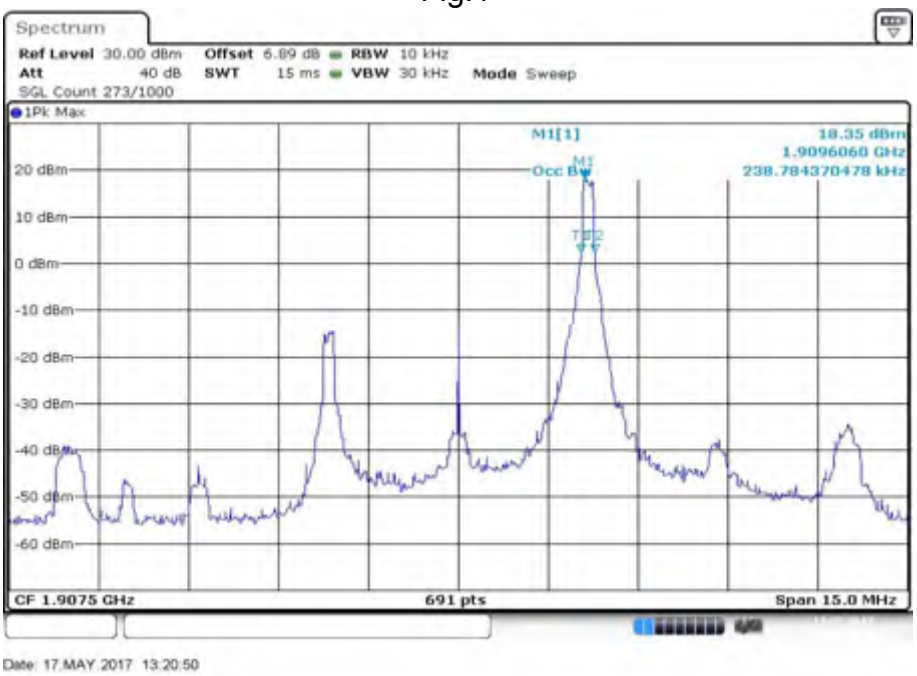
Fig.1



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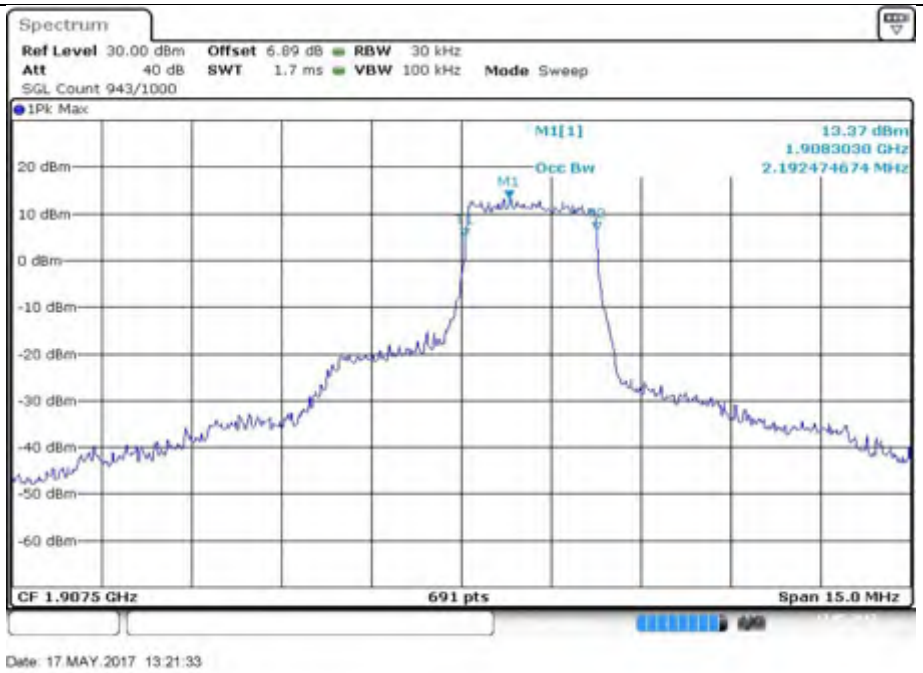

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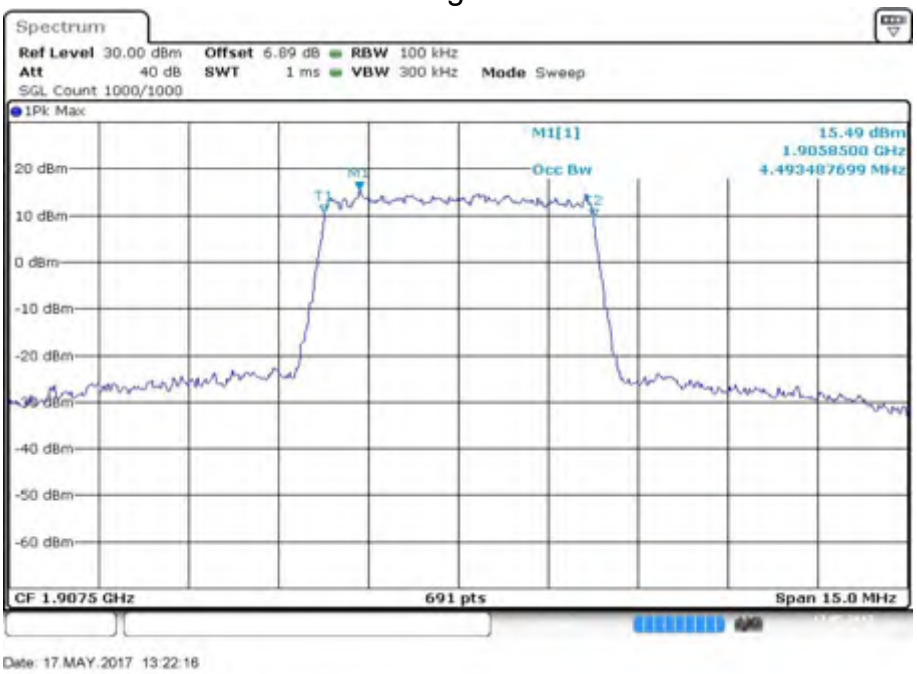

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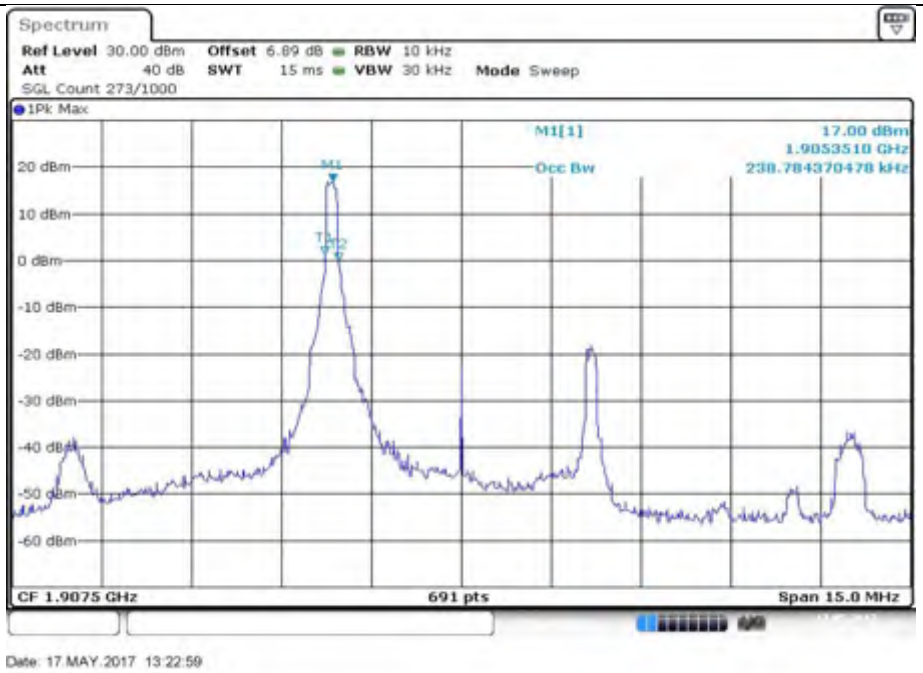

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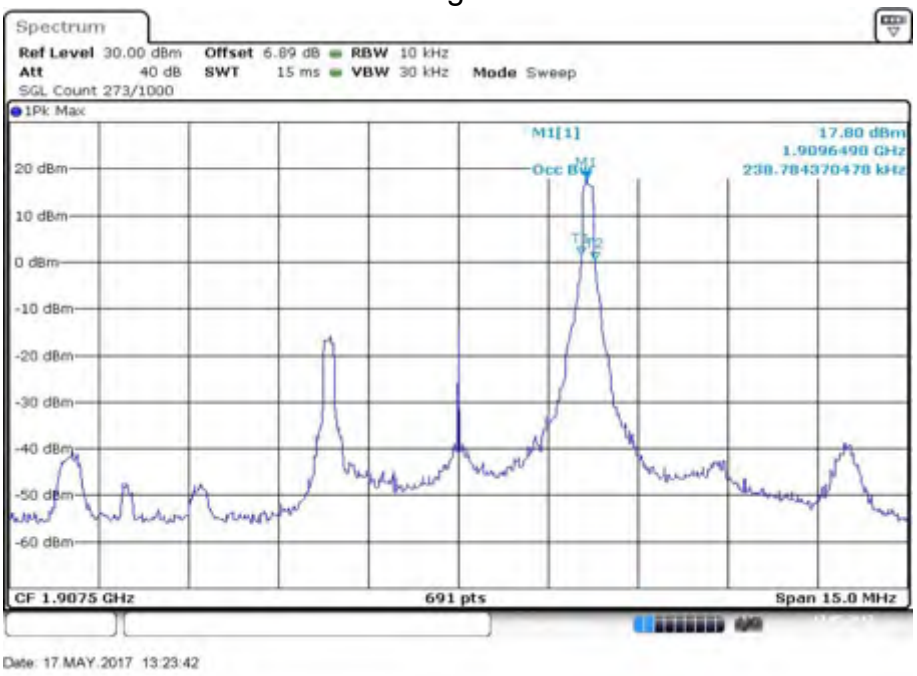

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Fig.6

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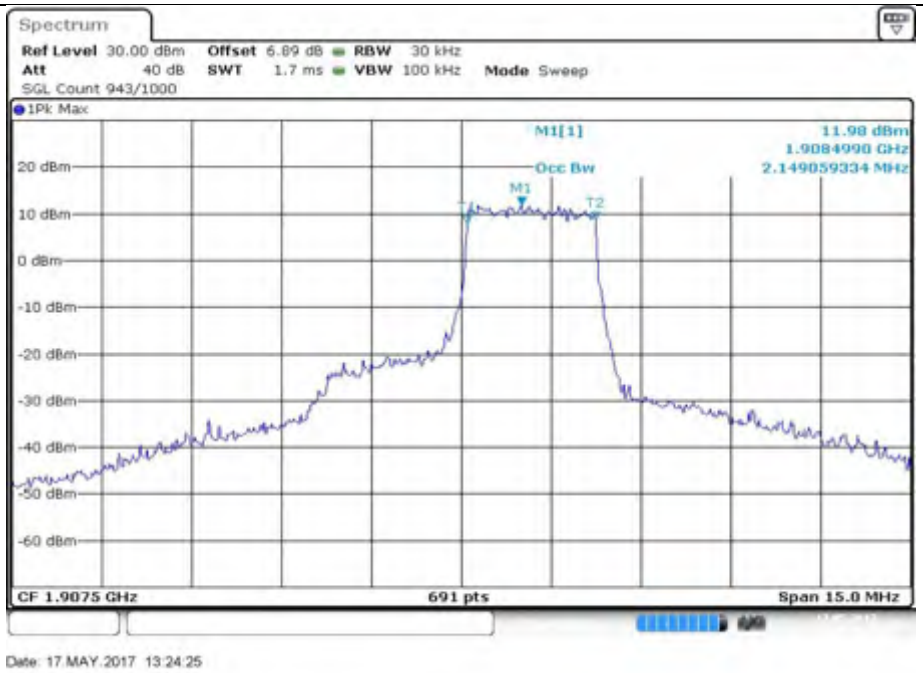

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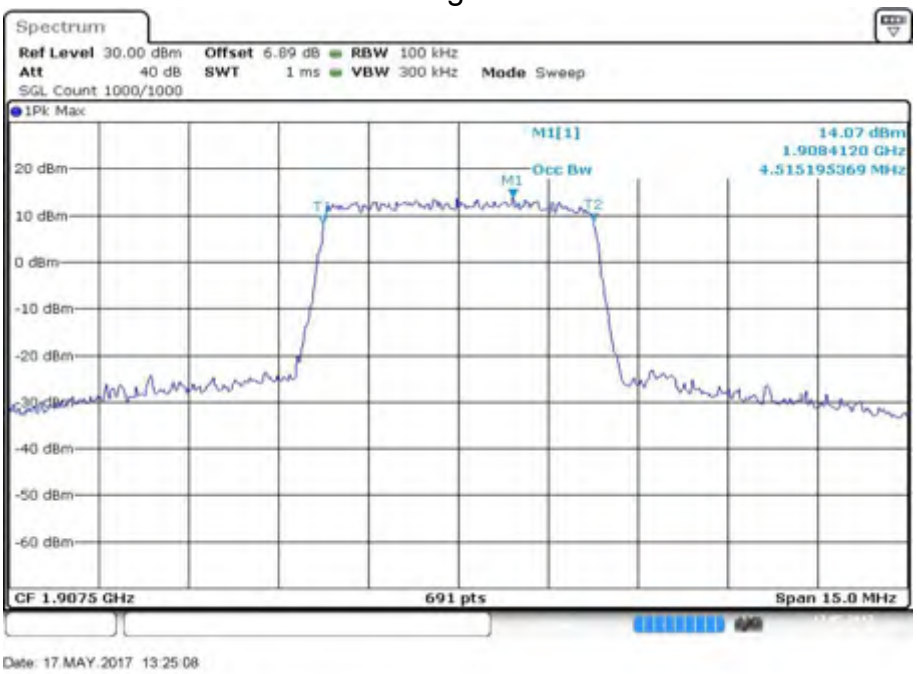

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	704	23060	10	1	0	0.217	Fig.1	0.217	Fig.5
				1	49	0.217	Fig.2	0.260	Fig.6
				24	12	4.342	Fig.3	4.385	Fig.7
				50	0	9.074	Fig.4	9.074	Fig.8

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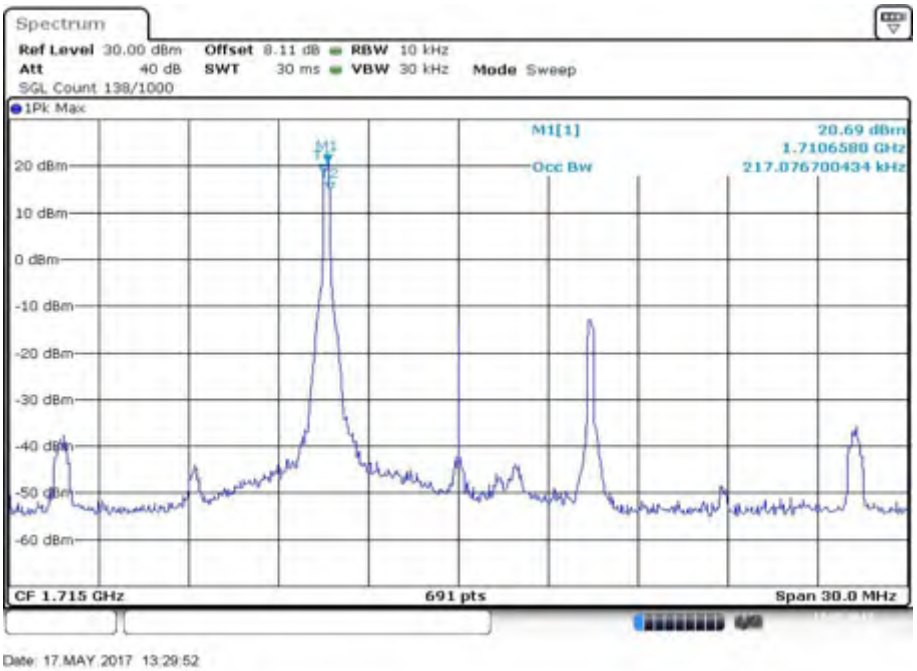

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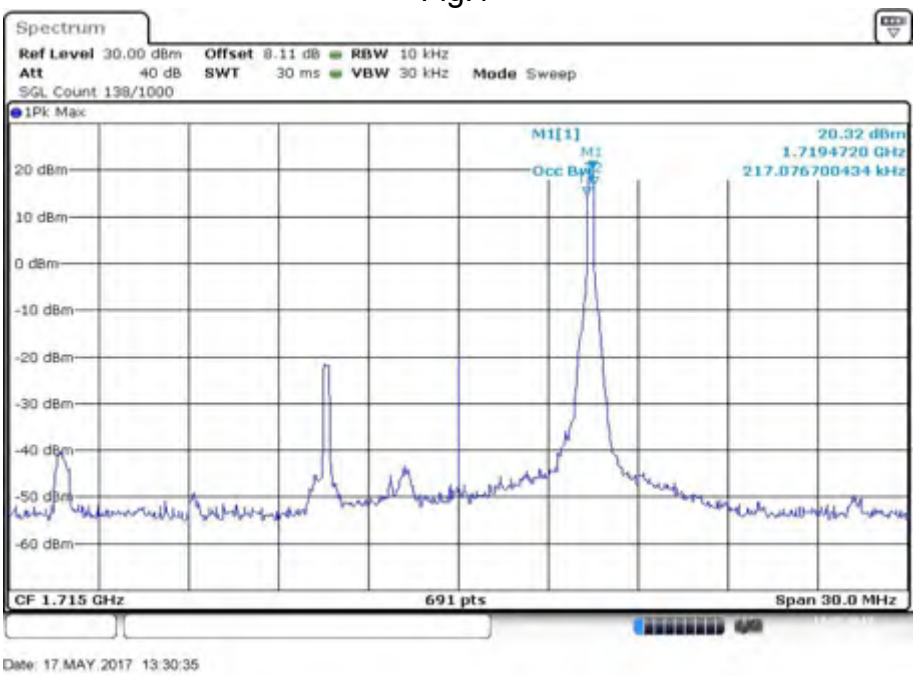

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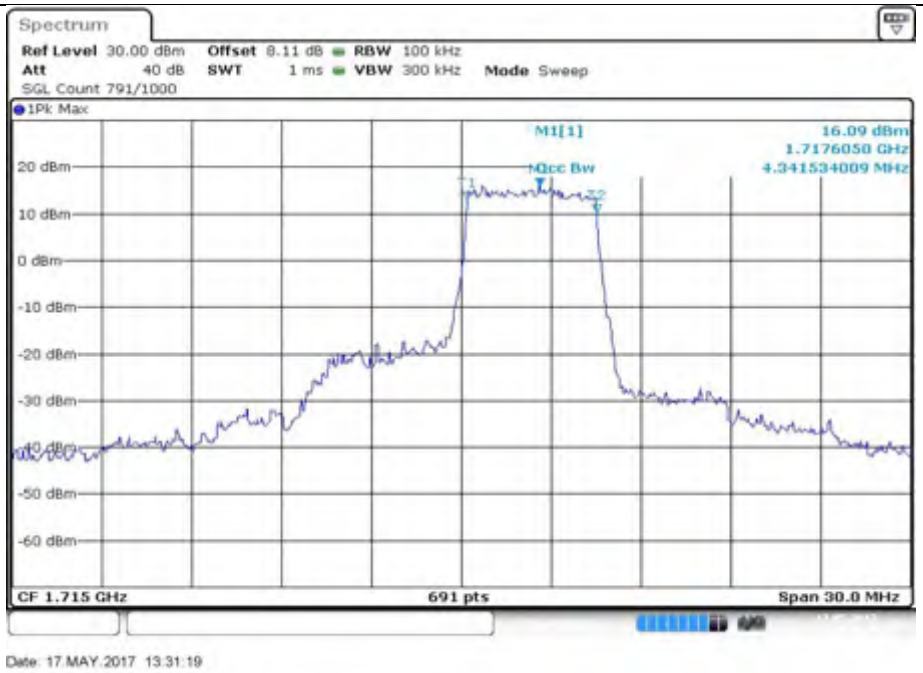

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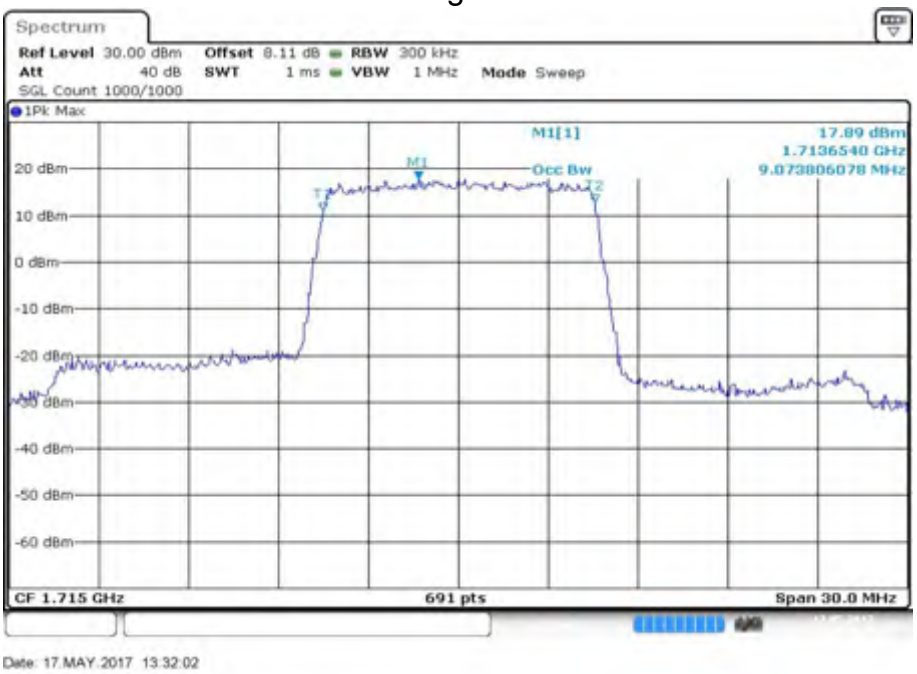

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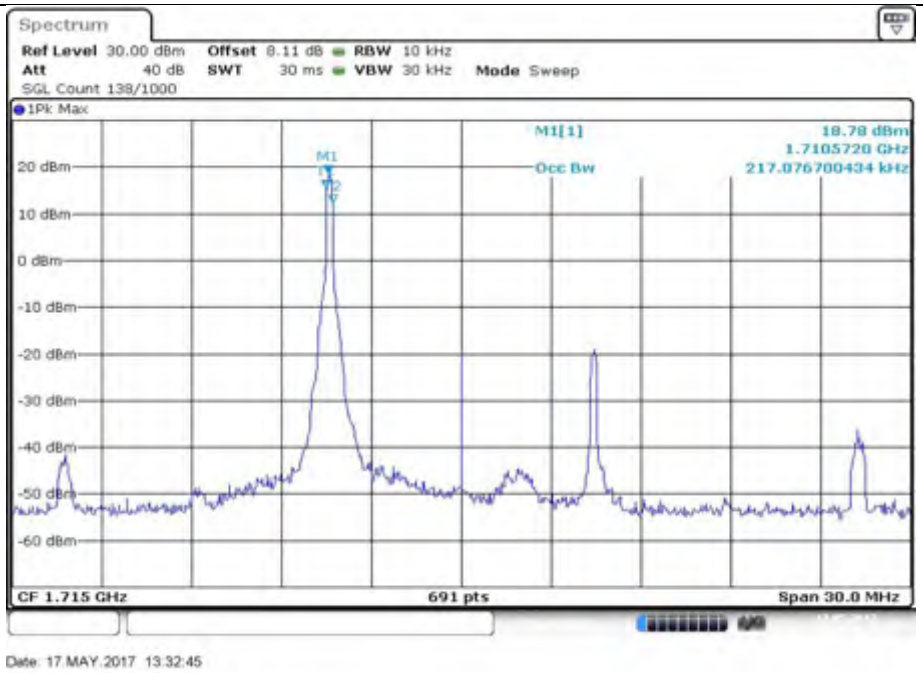

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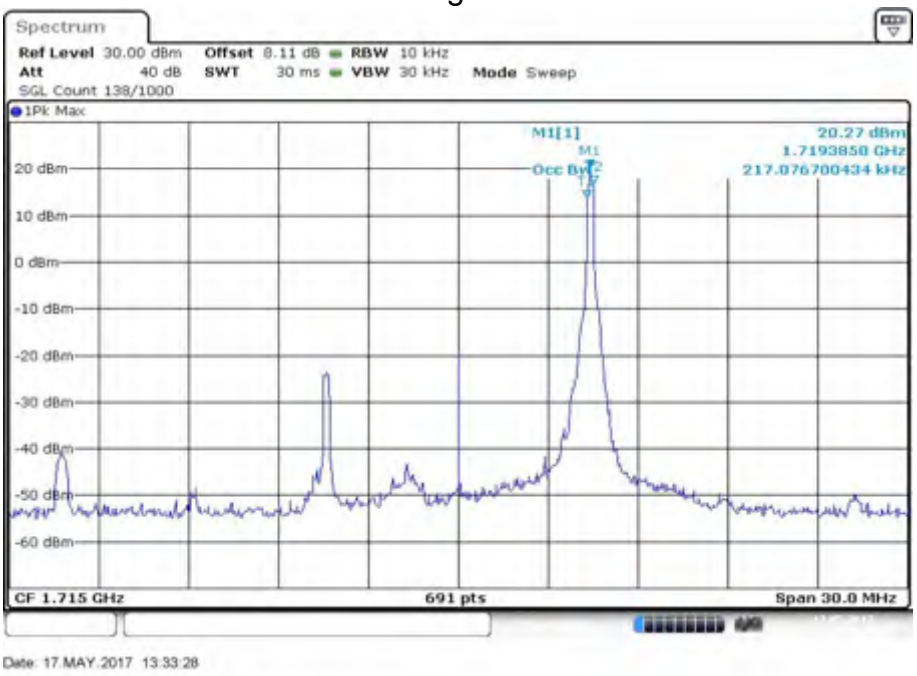

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Fig.6

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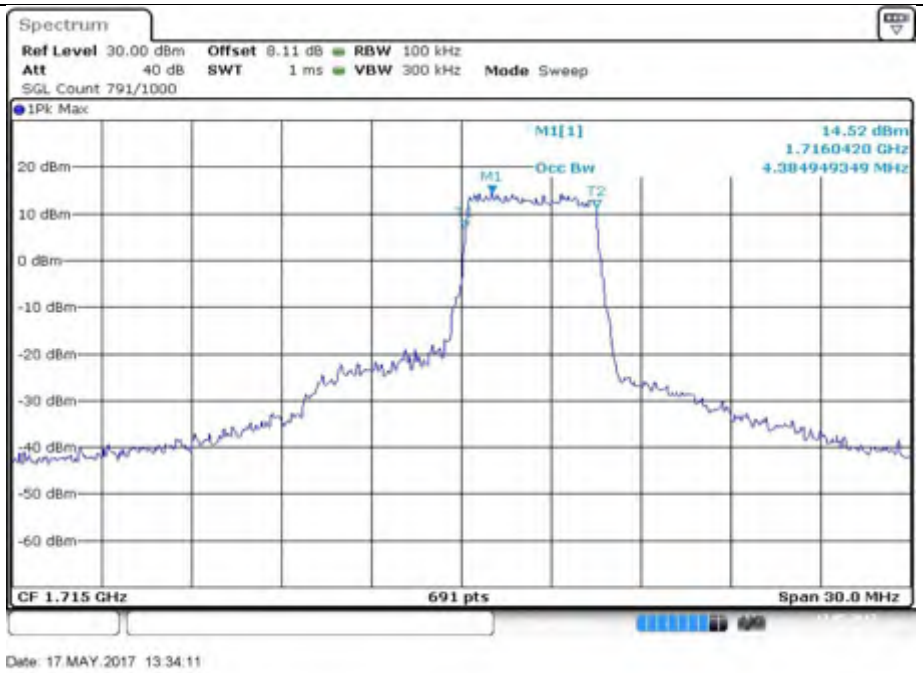

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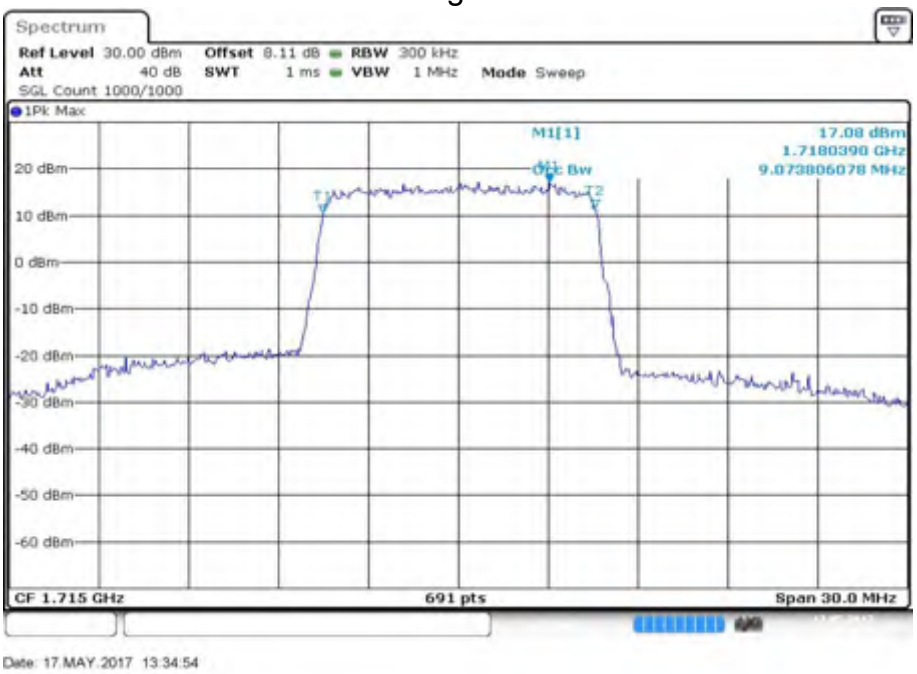

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	707.5	23095	10	1	0	0.217	Fig.1	0.217	Fig.5
				1	49	0.217	Fig.2	0.217	Fig.6
				24	12	4.428	Fig.3	4.385	Fig.7
				50	0	9.030	Fig.4	9.030	Fig.8

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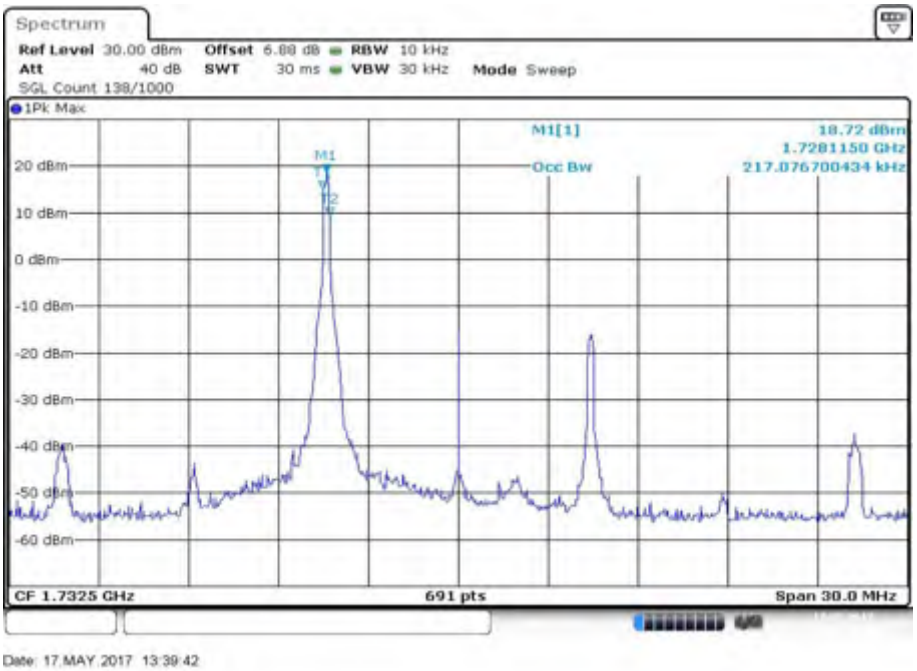

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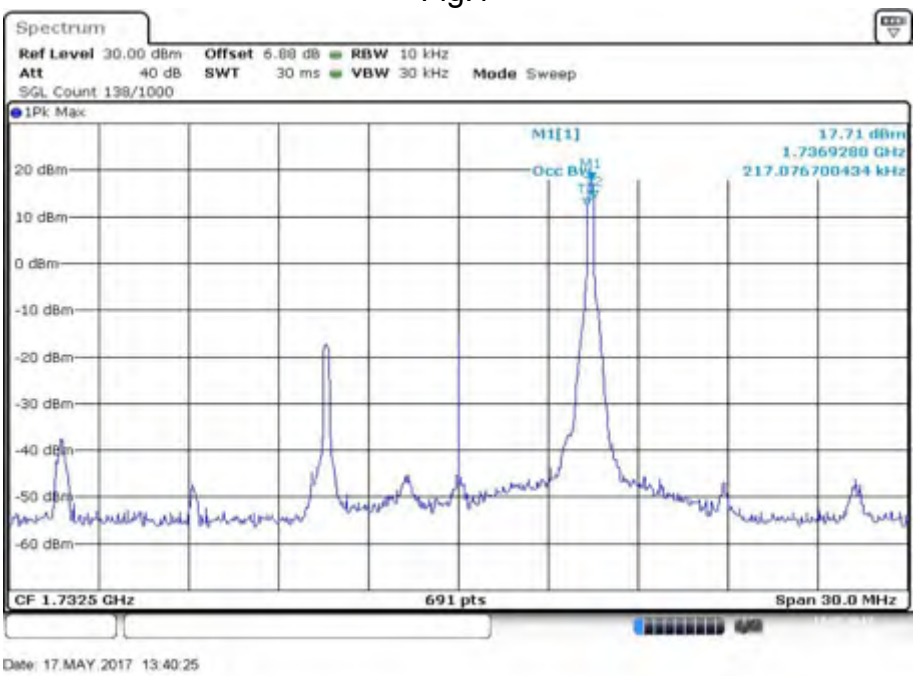

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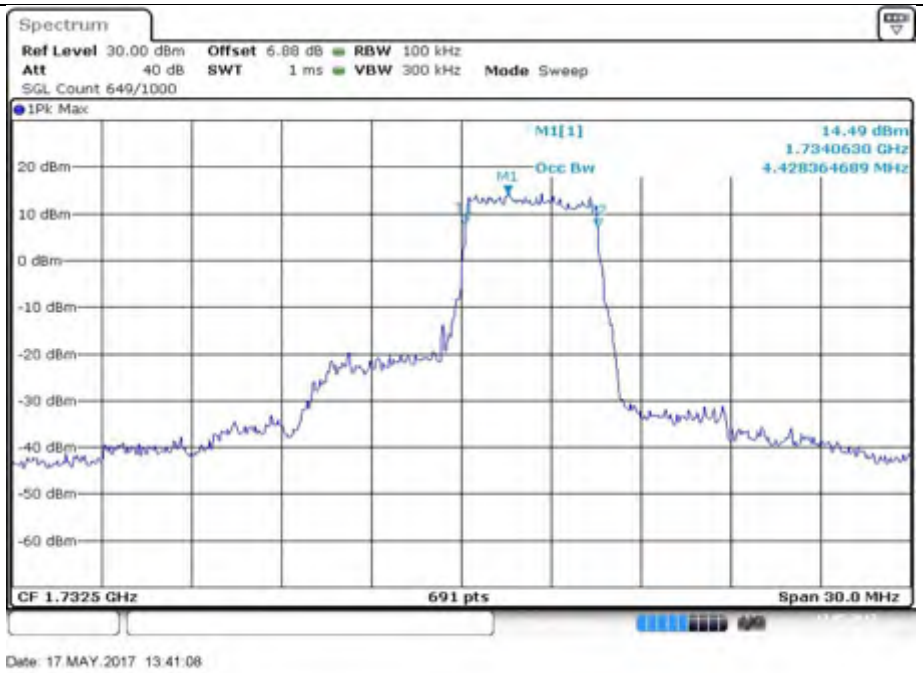

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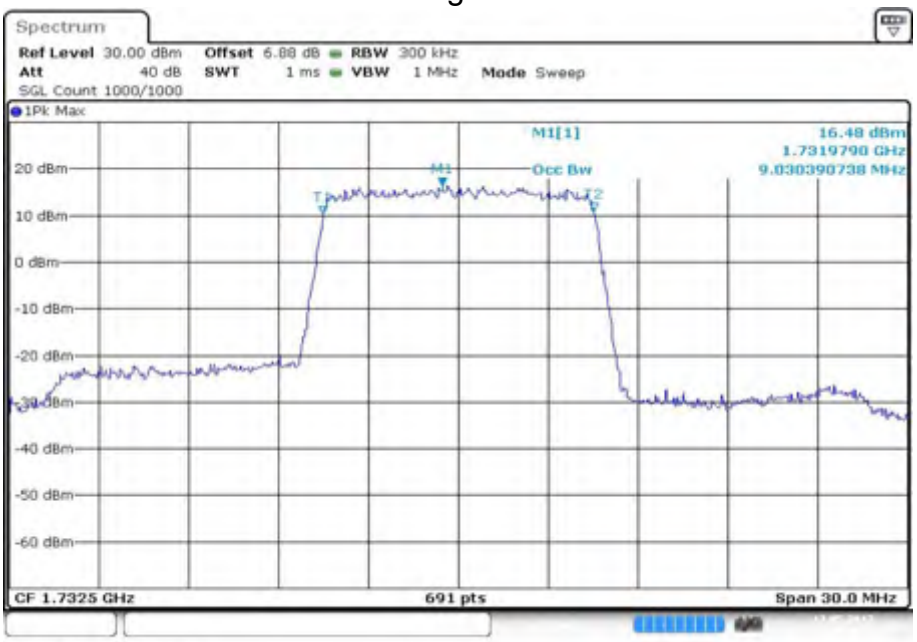

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Fig.4

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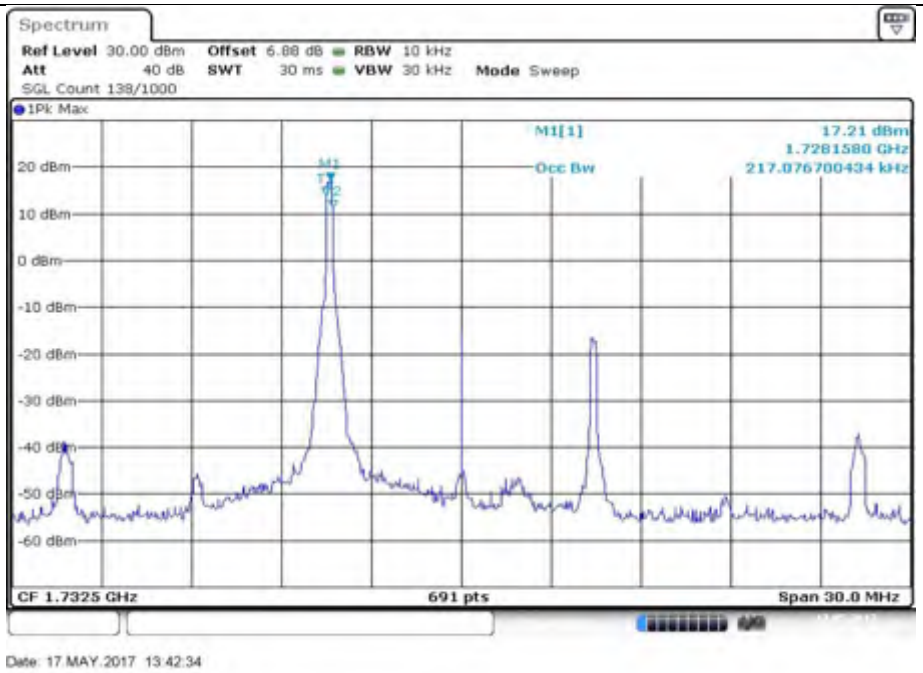

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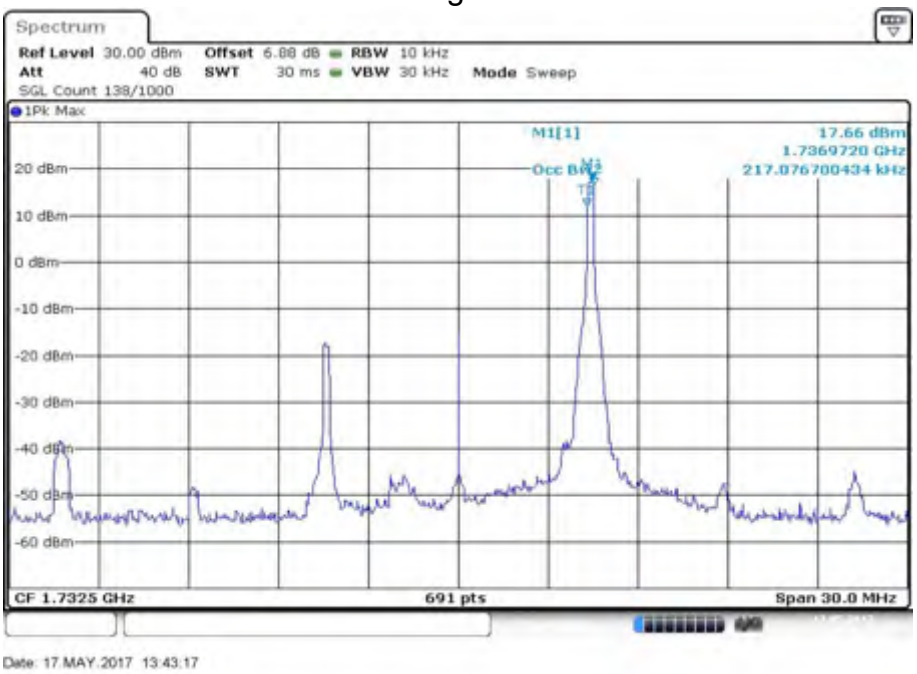

Fig.6

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Fig.7

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
12	711	23130	10	1	0	0.217	Fig.1	0.217	Fig.5
				1	49	0.217	Fig.2	0.217	Fig.6
				24	12	4.385	Fig.3	4.342	Fig.7
				50	0	9.030	Fig.4	9.074	Fig.8

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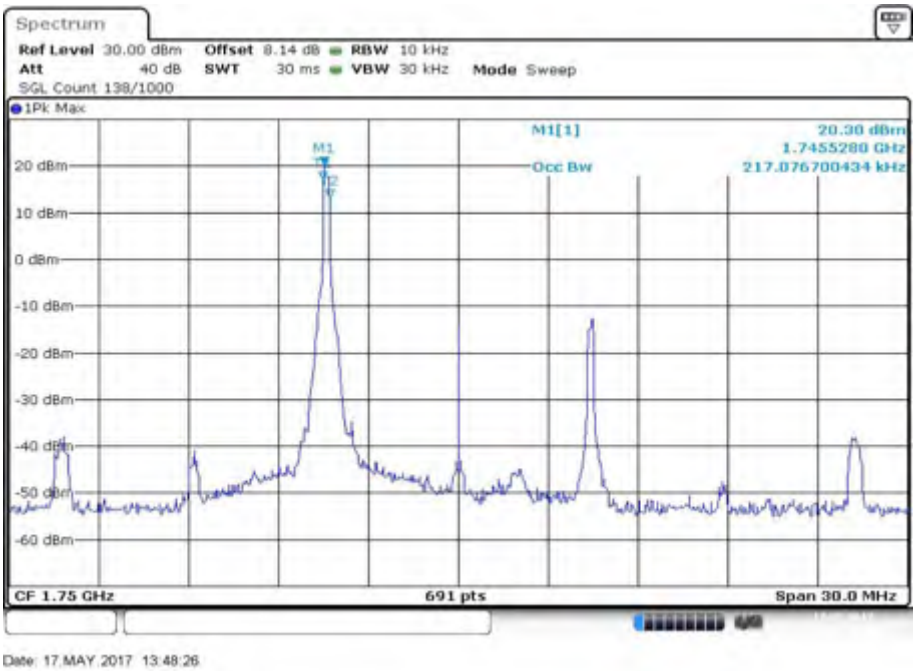

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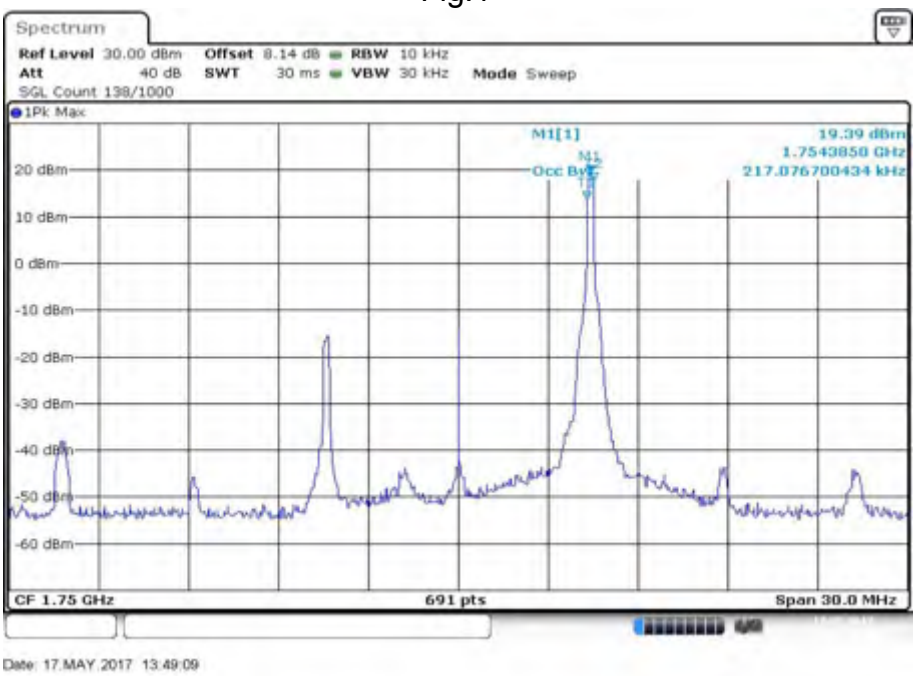

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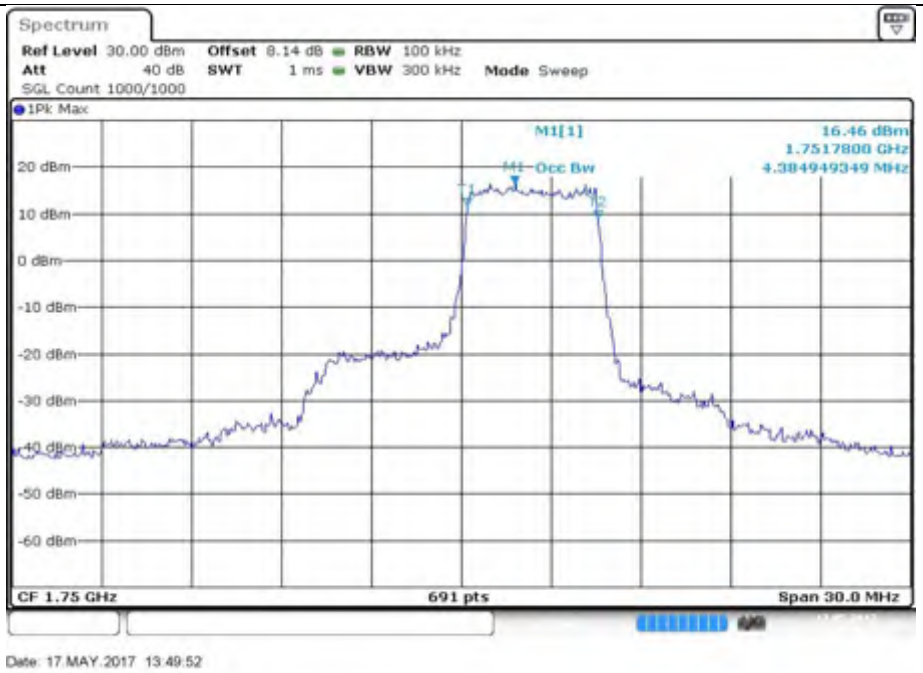

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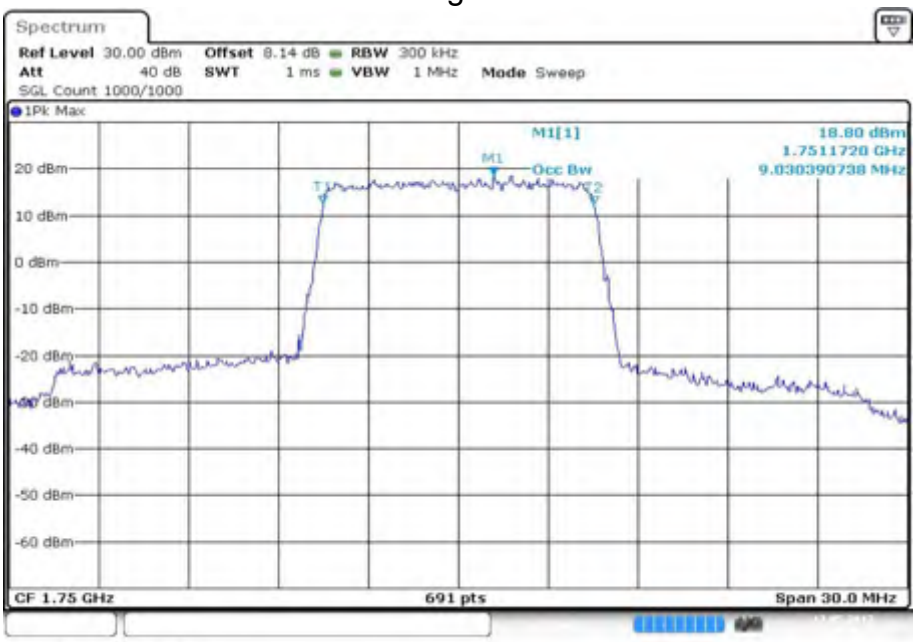

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Fig.4

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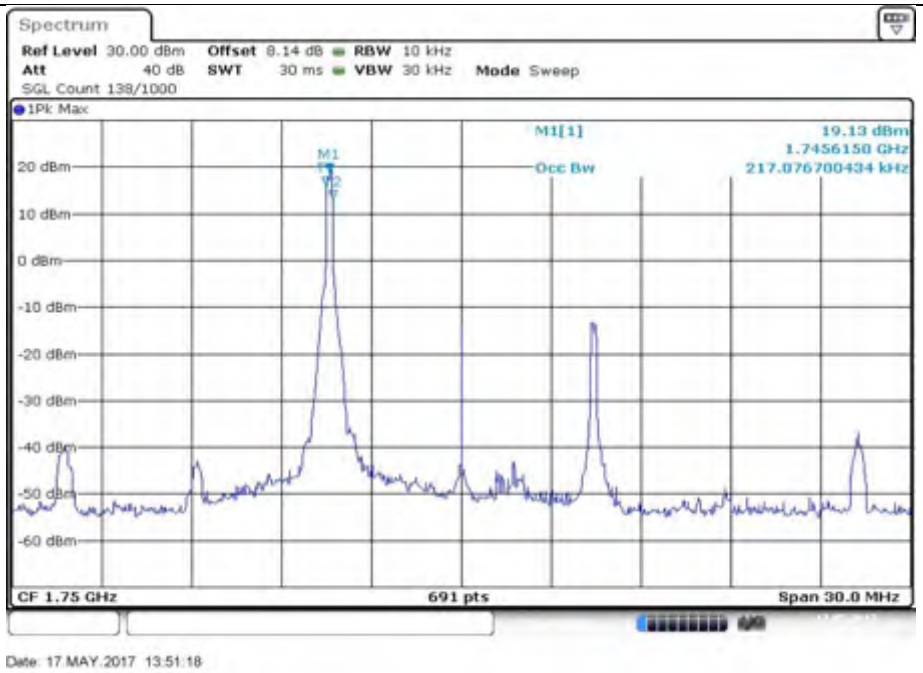

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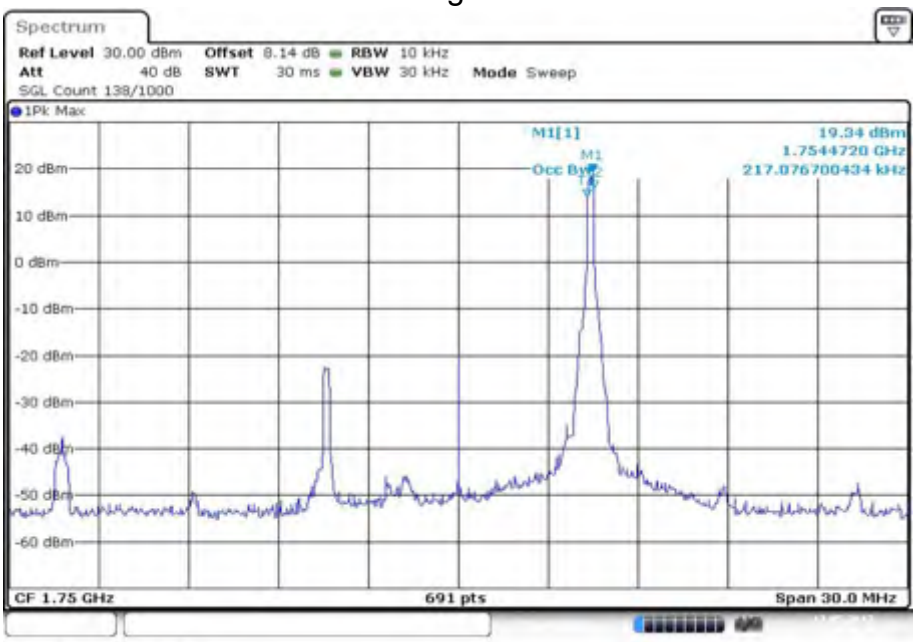

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Fig.6

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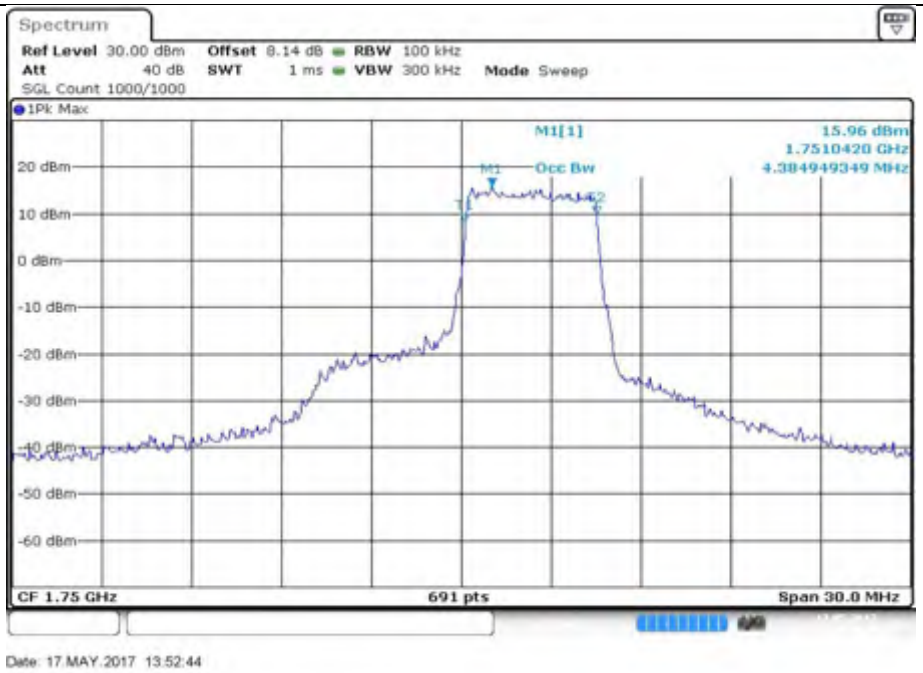

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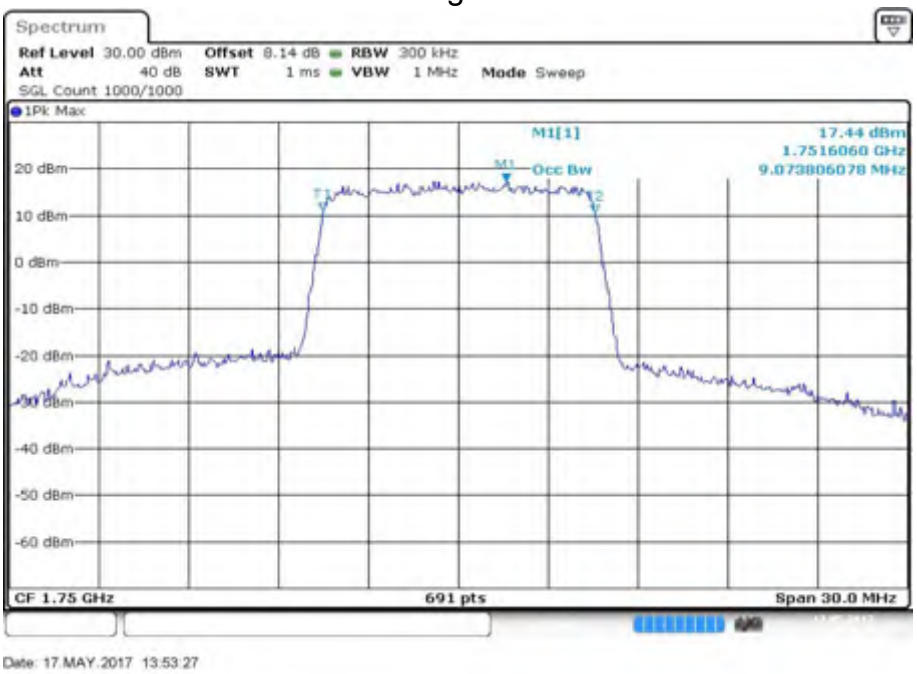

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
13	779.5	23205	5	1	0	0.239	Fig.1	0.239	Fig.5
				1	24	0.239	Fig.2	0.239	Fig.6
				12	6	2.171	Fig.3	2.149	Fig.7
				25	0	4.493	Fig.4	4.515	Fig.8

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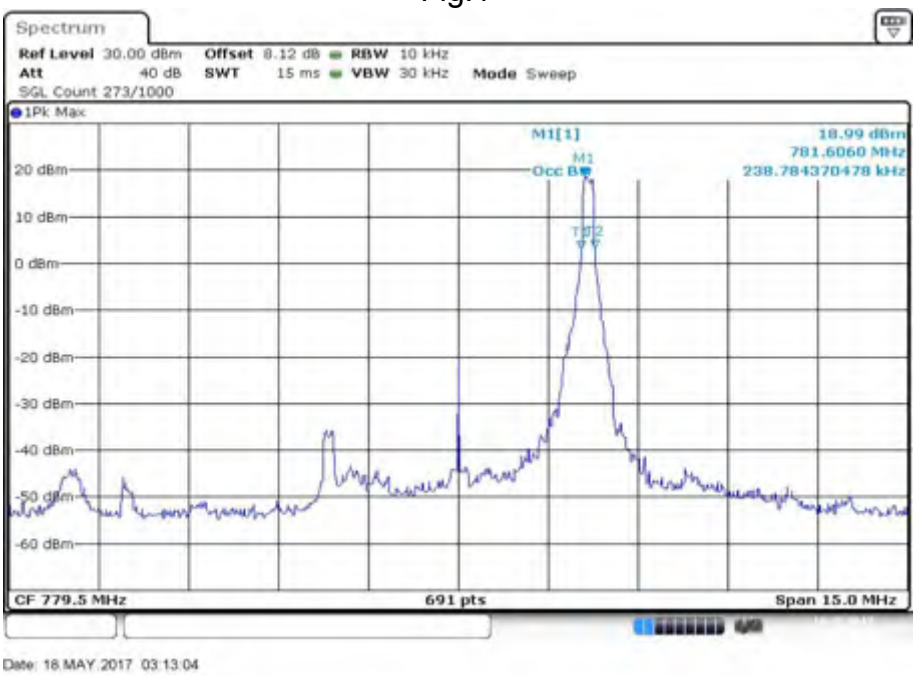
Fig.1



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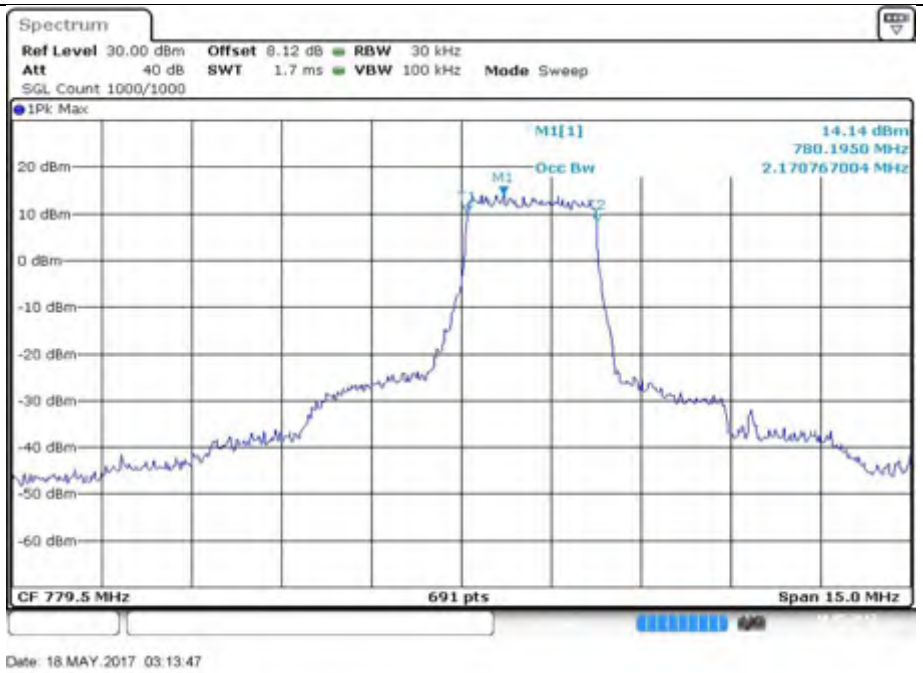

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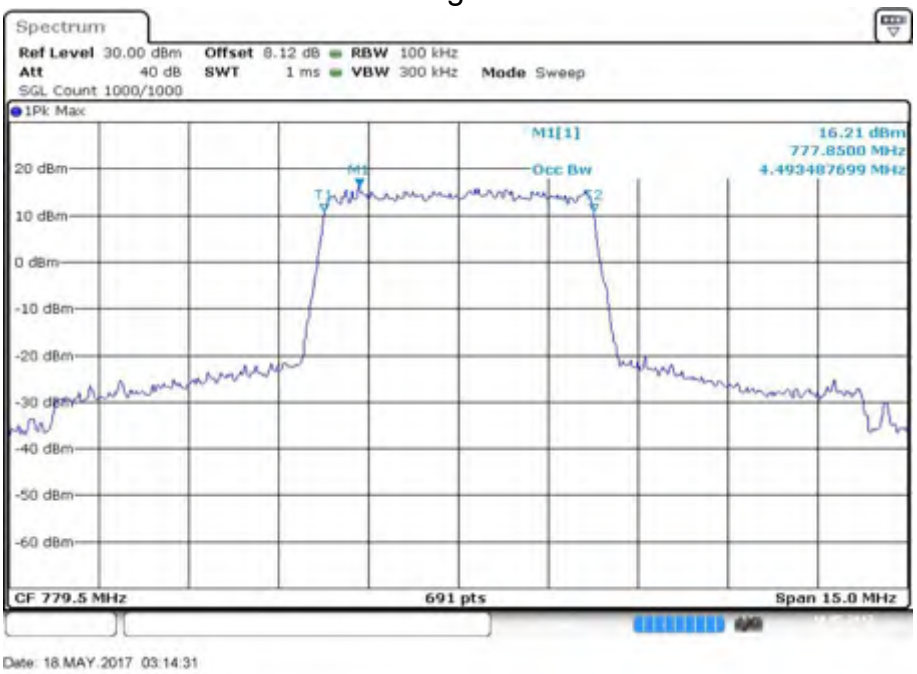

Fig.4

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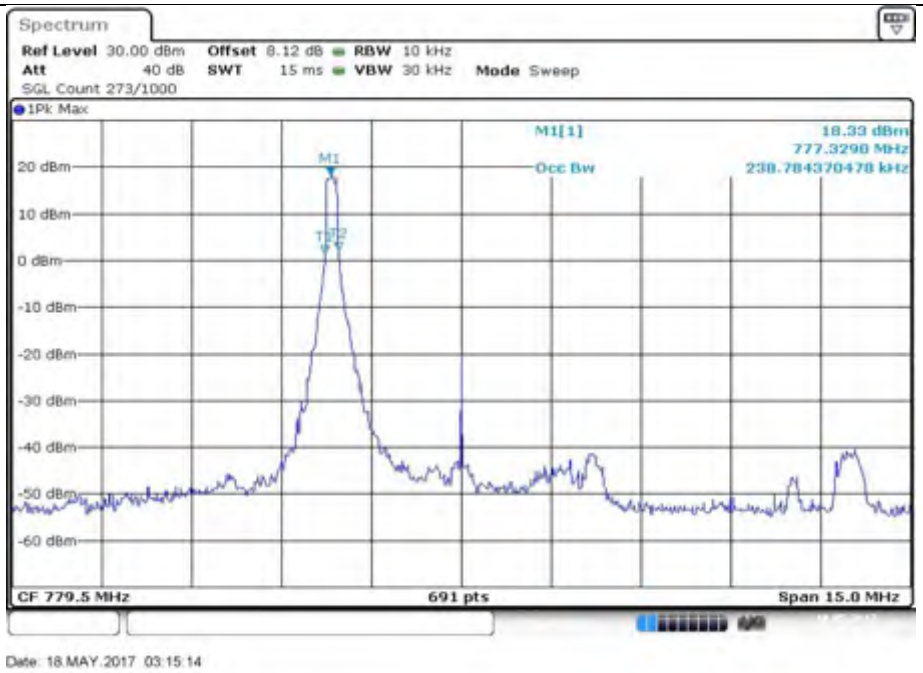

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Fig.5

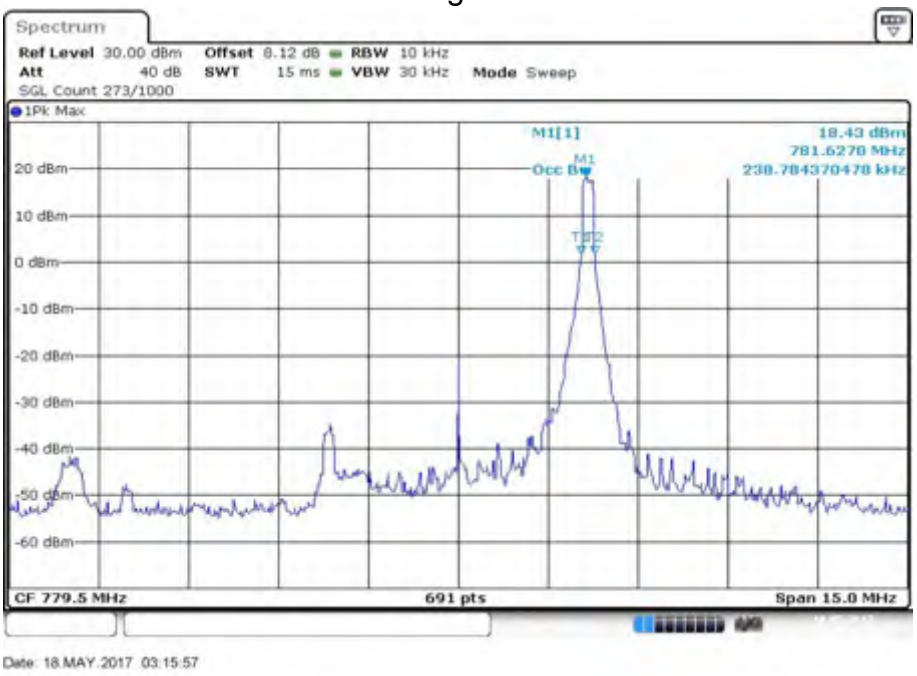

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Fig.6

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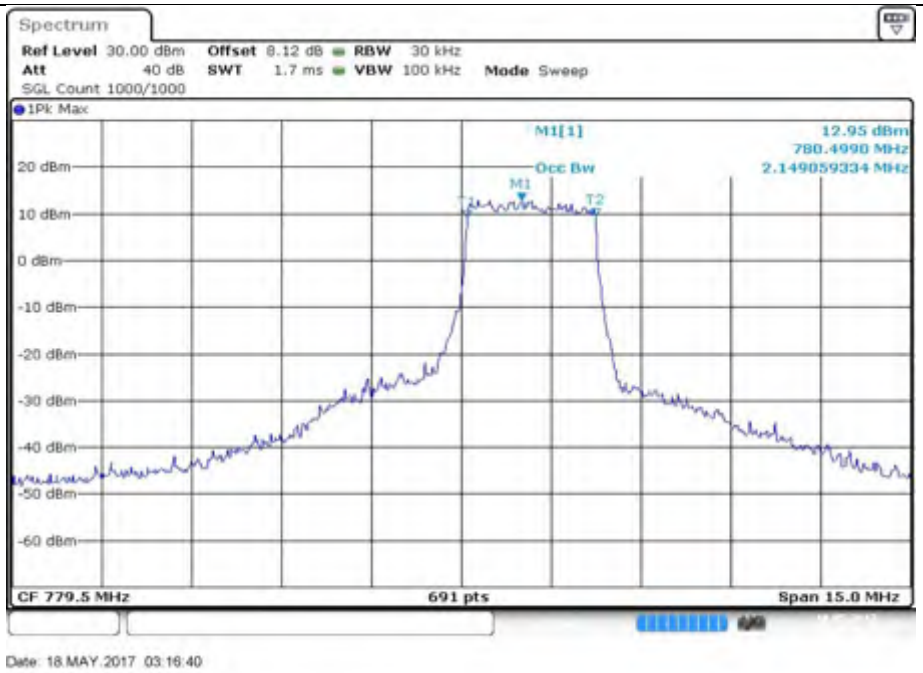

Fig.7

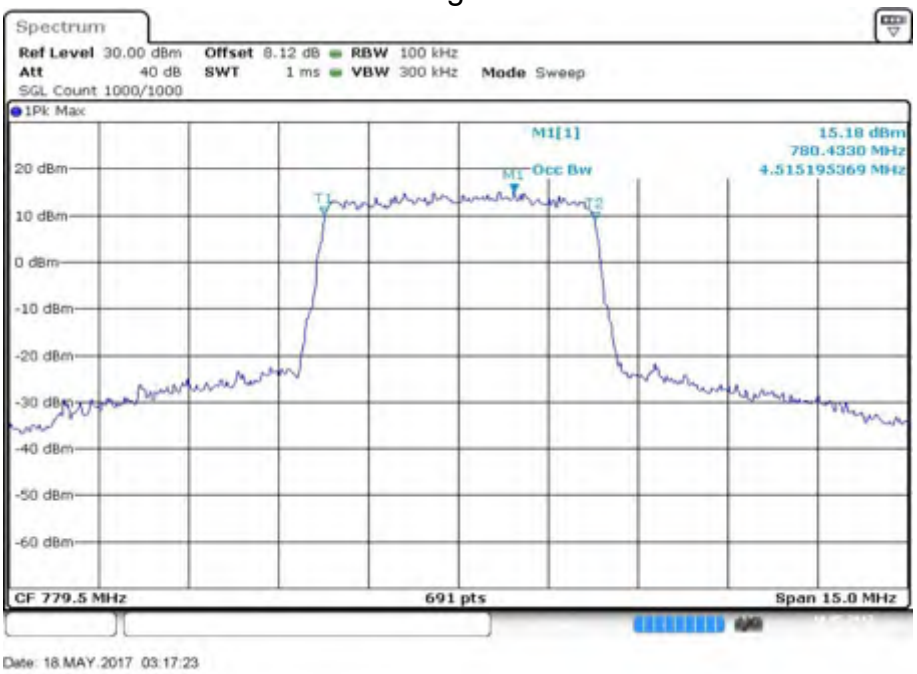

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
13	782	23230	5	1	0	0.239	Fig.1	0.239	Fig.5
				1	24	0.239	Fig.2	0.239	Fig.6
				12	6	2.171	Fig.3	2.171	Fig.7
				25	0	4.515	Fig.4	4.515	Fig.8

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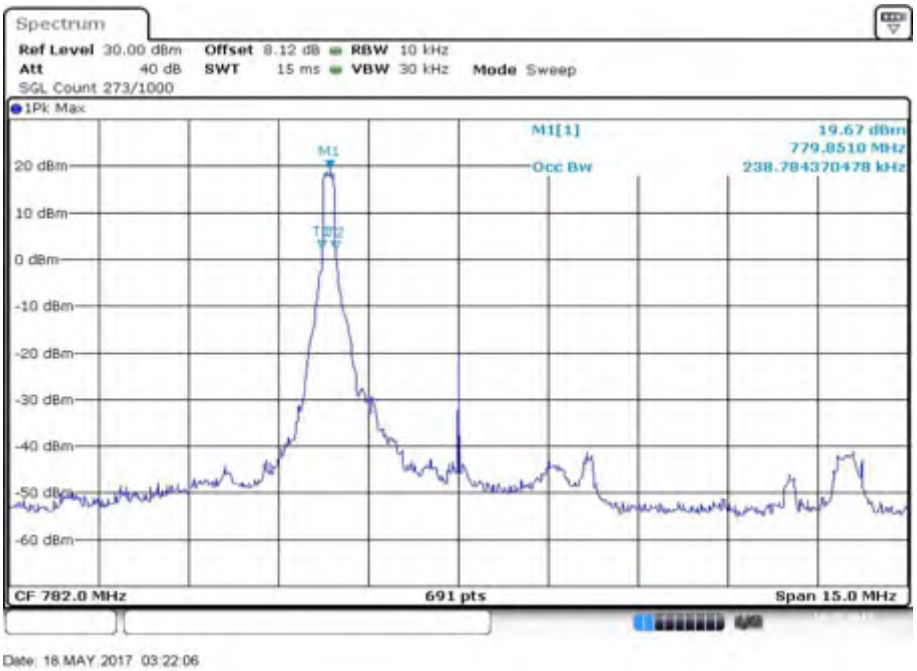

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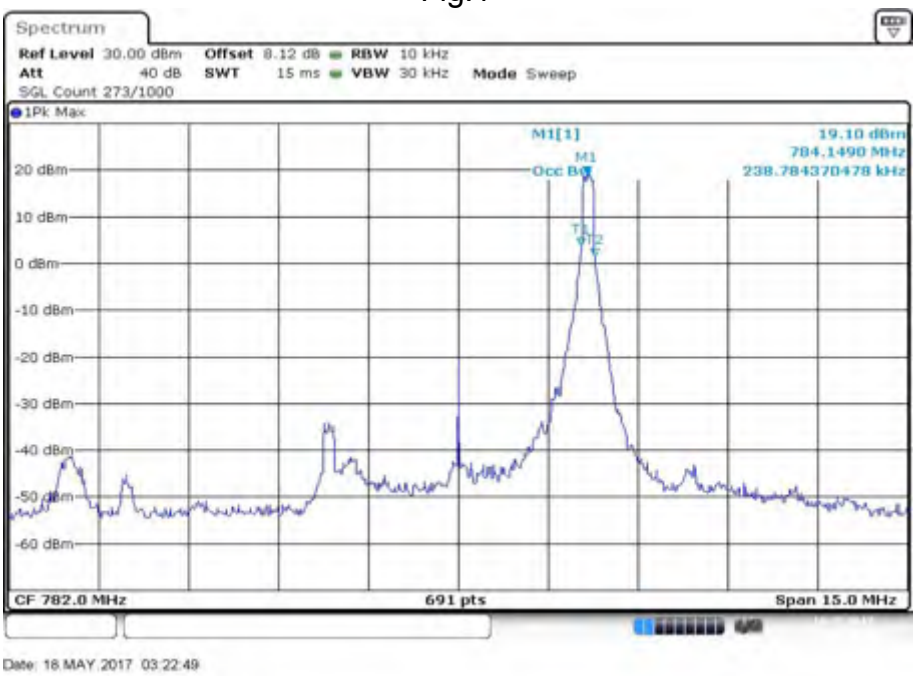

Fig.2

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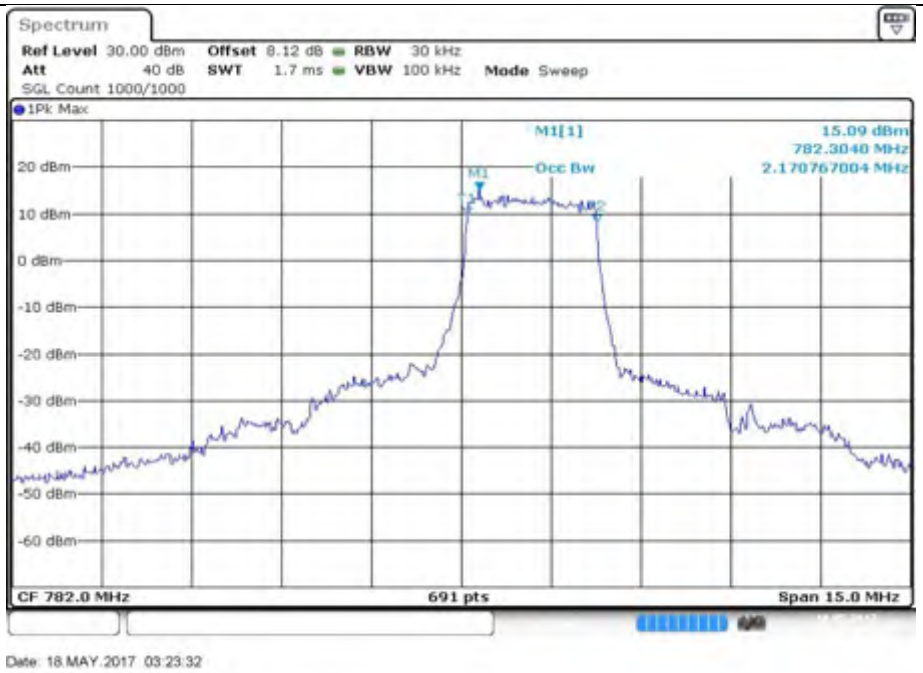

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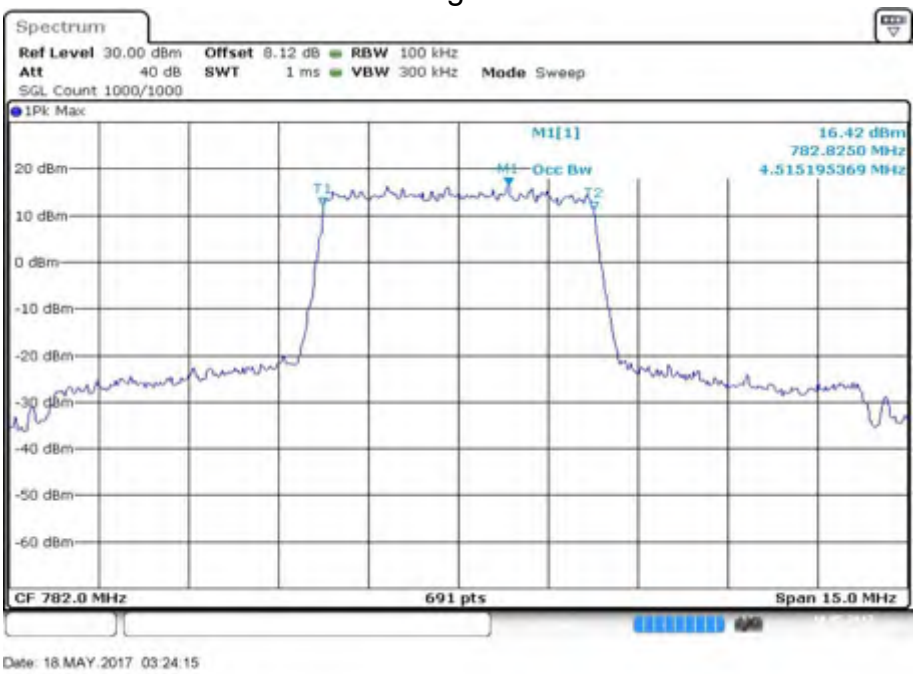

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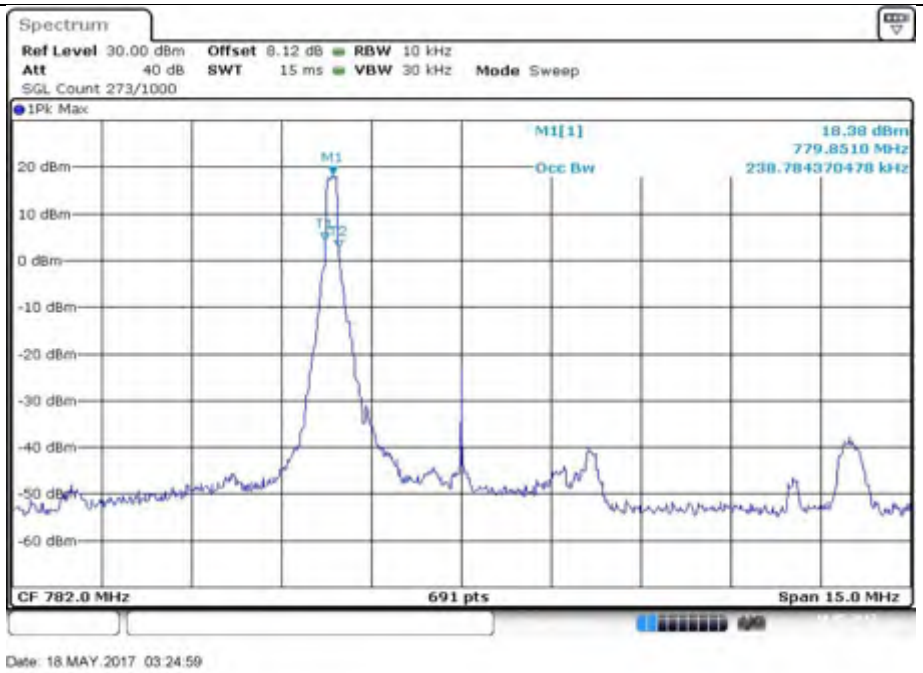

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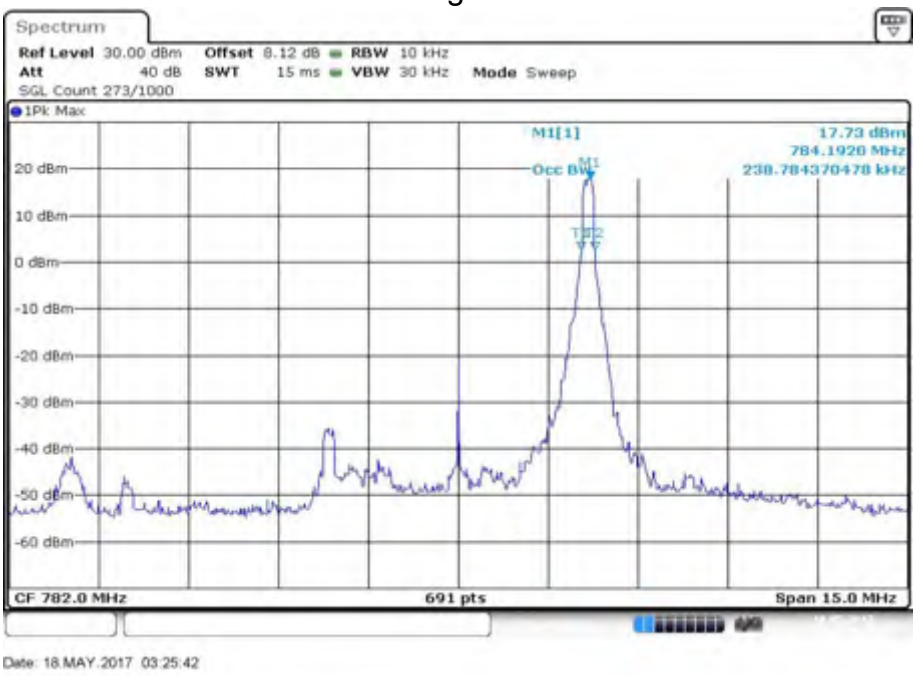

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Fig.6

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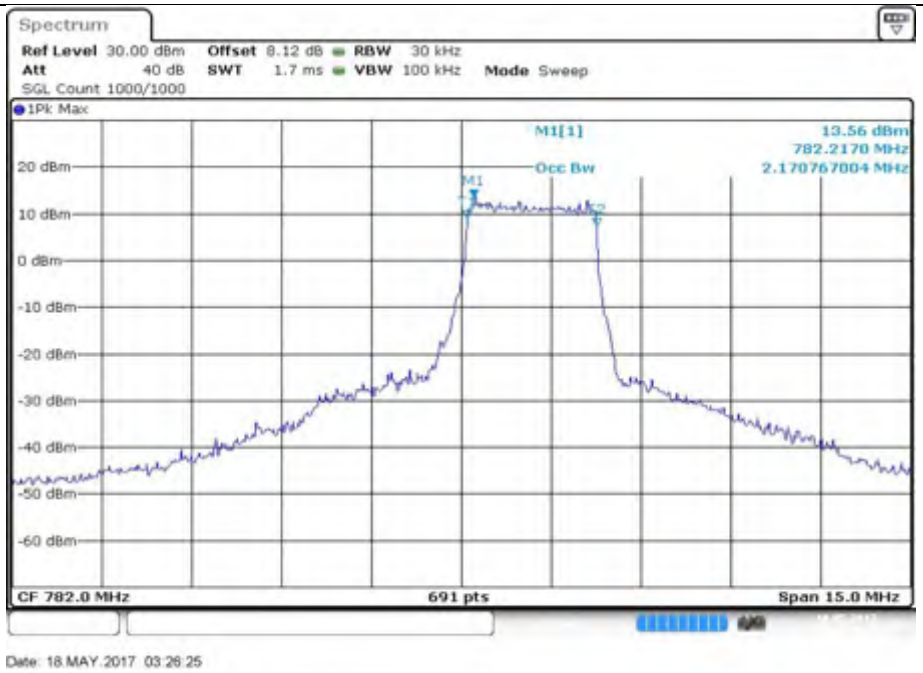

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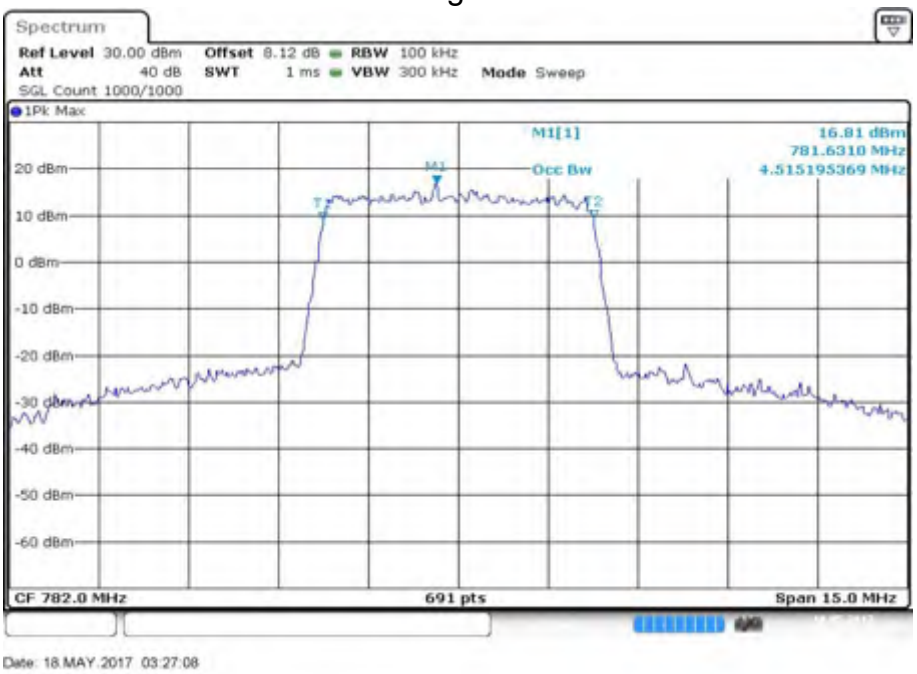

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
13	784.5	23255	5	1	0	0.239	Fig.1	0.239	Fig.5
				1	24	0.239	Fig.2	0.239	Fig.6
				12	6	2.192	Fig.3	2.171	Fig.7
				25	0	4.493	Fig.4	4.515	Fig.8

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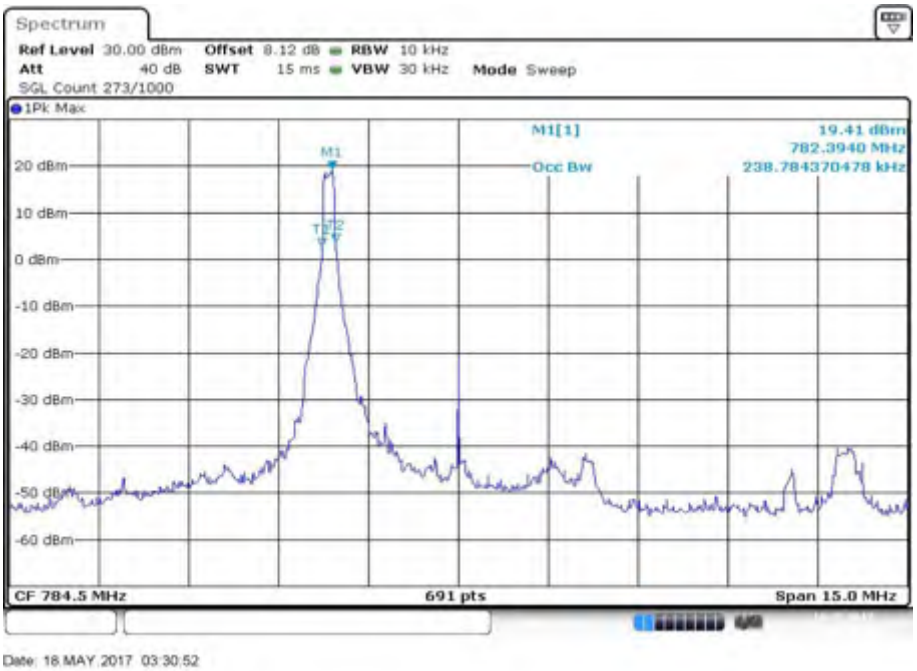

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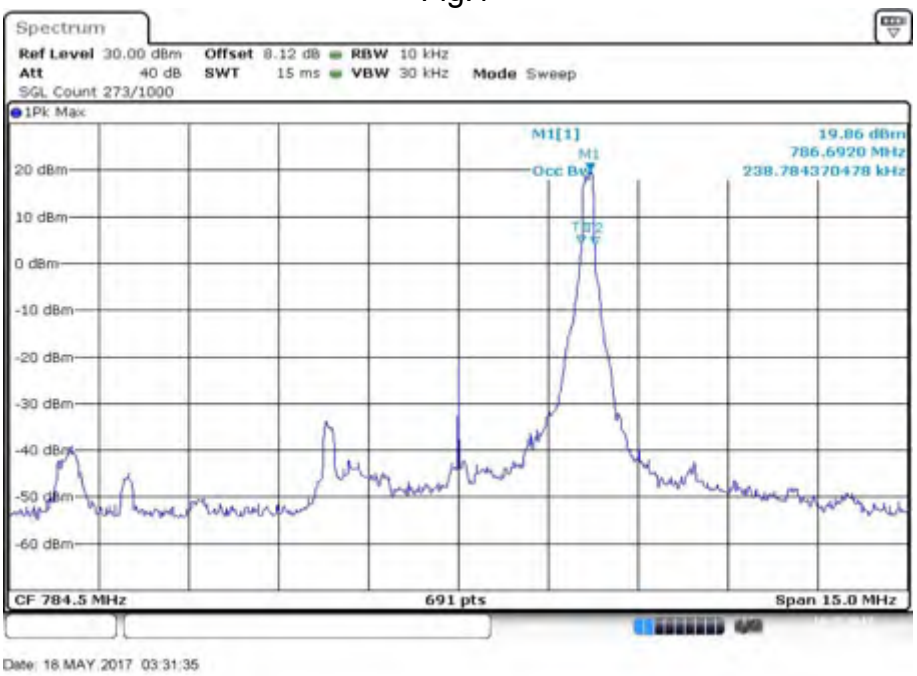

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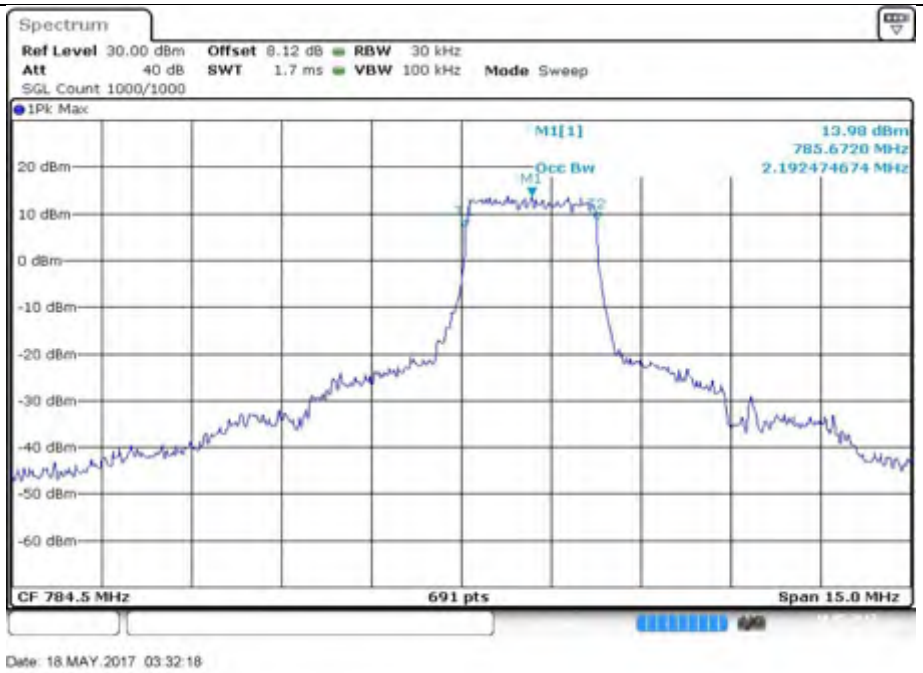

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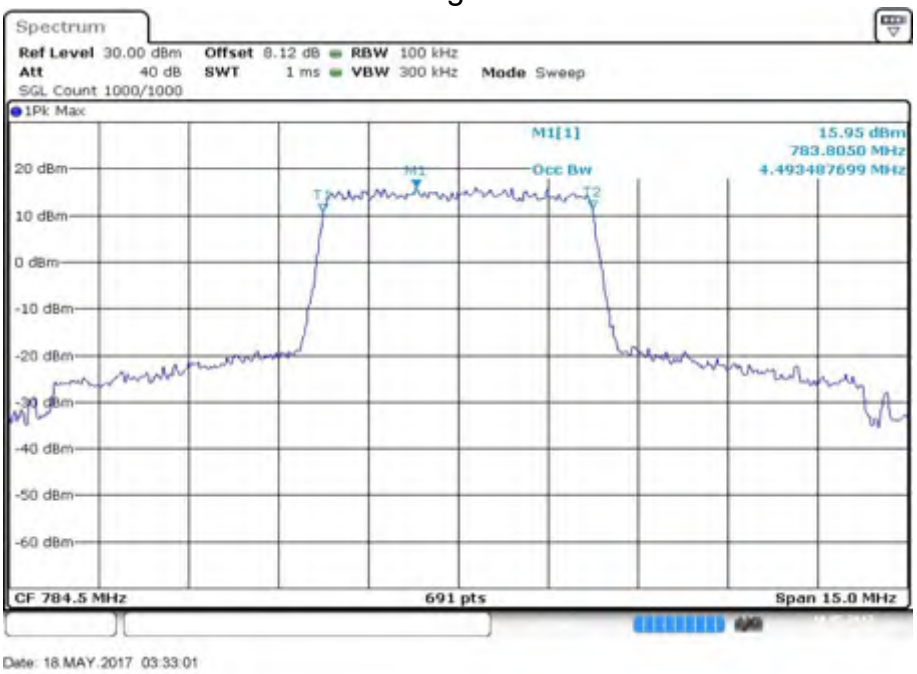

Fig.4

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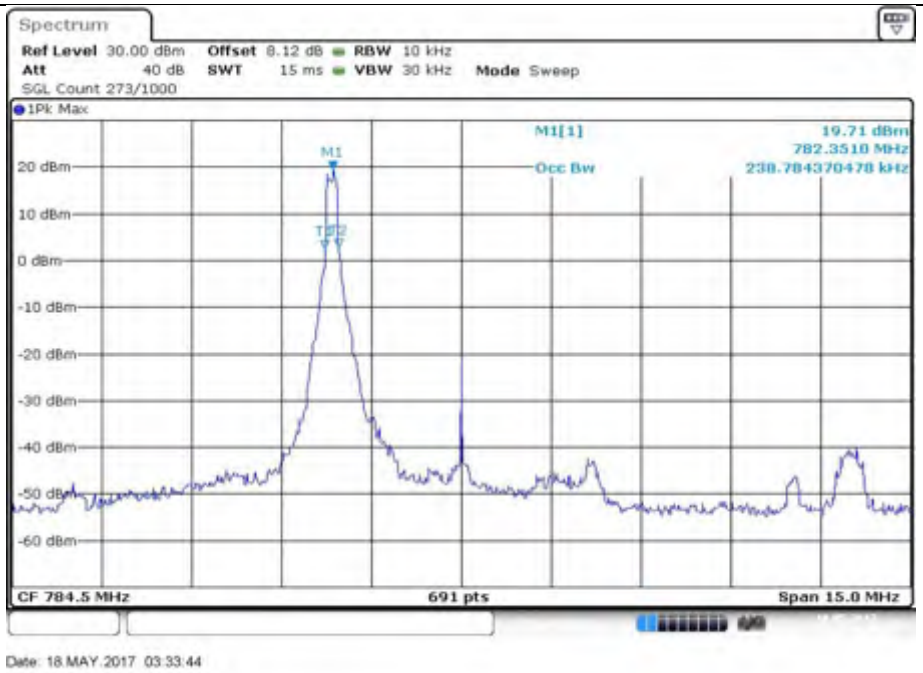

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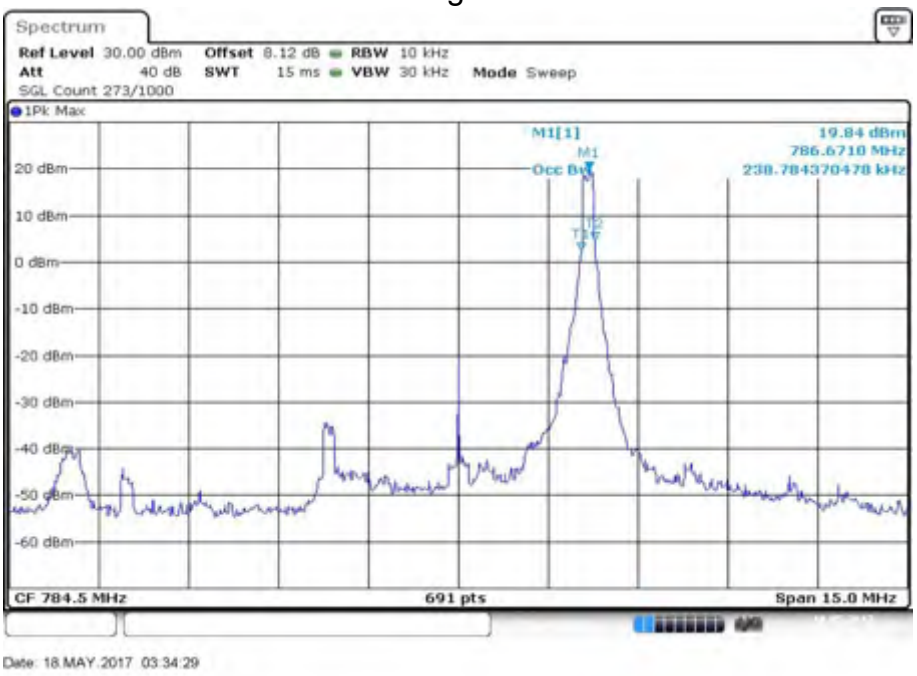

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Fig.6

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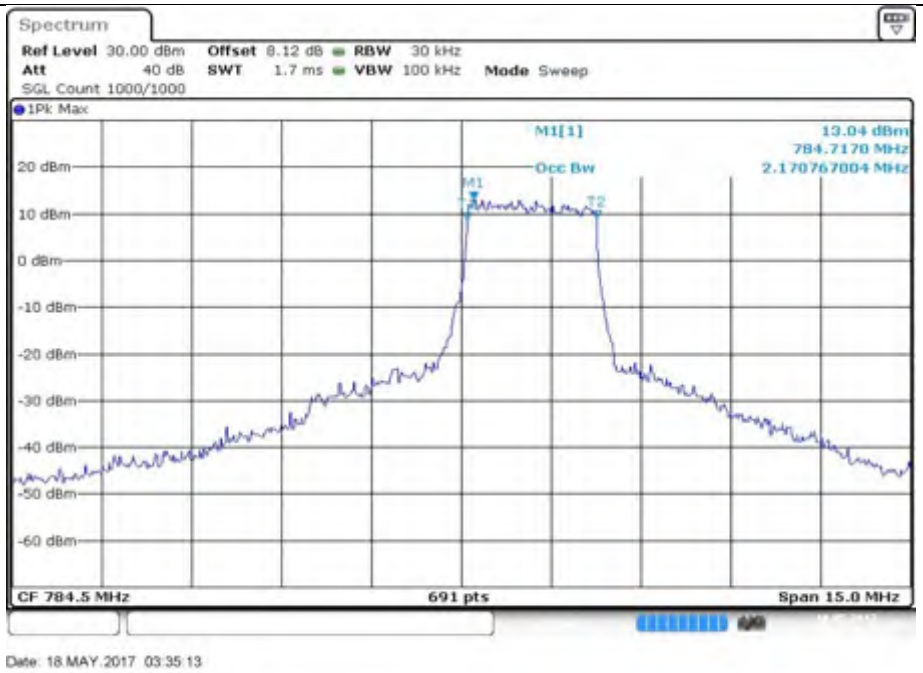

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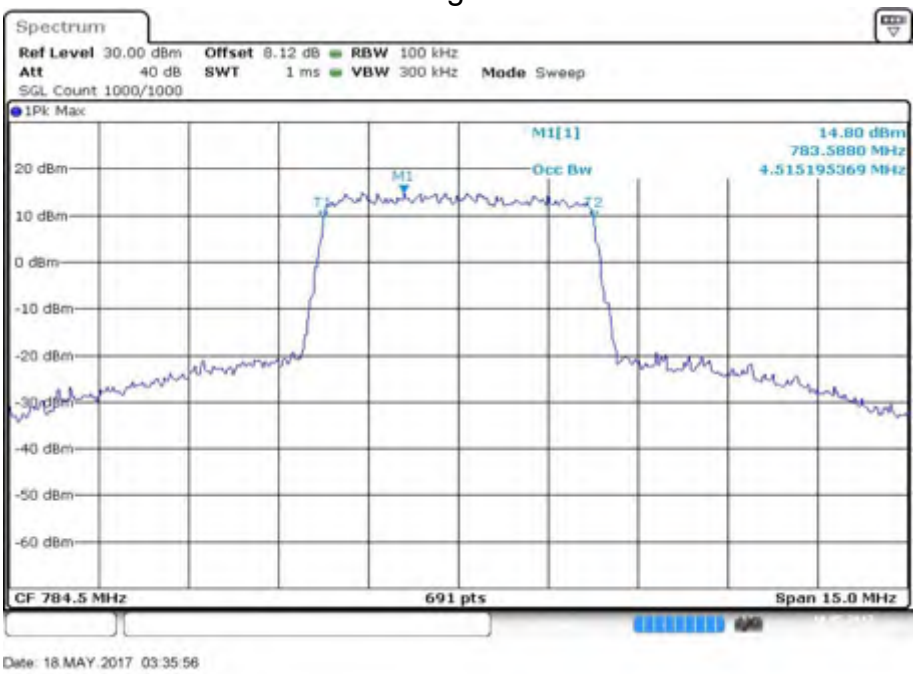

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
13	782	23230	10	1	0	0.217	Fig.1	0.217	Fig.5
				1	49	0.217	Fig.2	0.217	Fig.6
				24	12	4.385	Fig.3	4.342	Fig.7
				50	0	9.074	Fig.4	9.030	Fig.8

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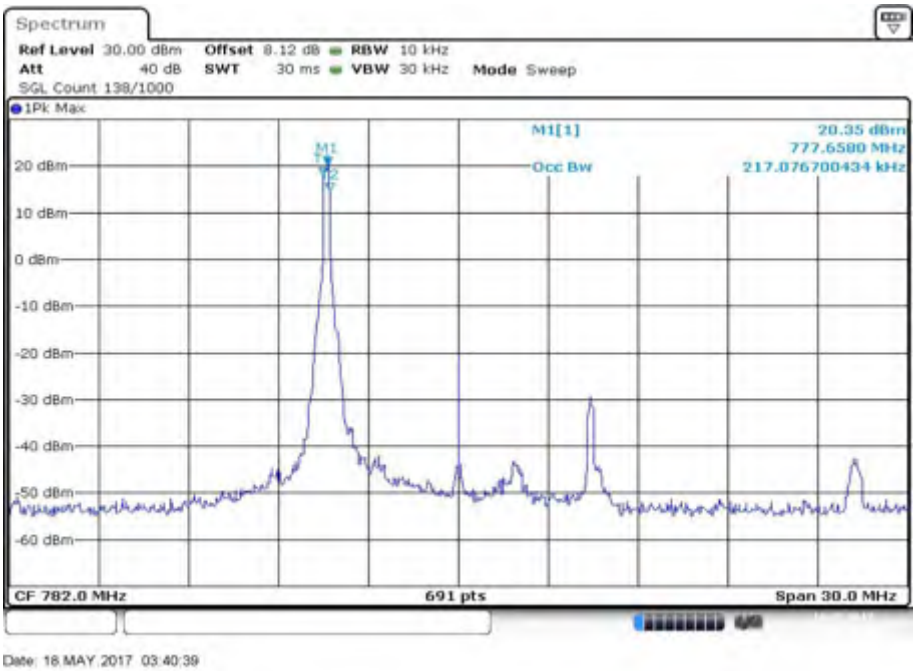

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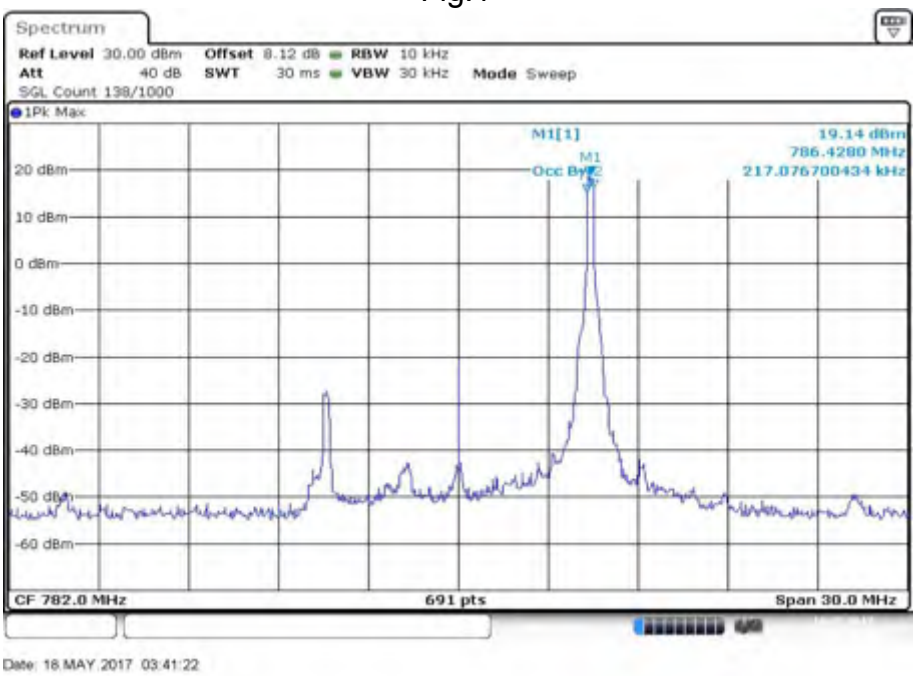

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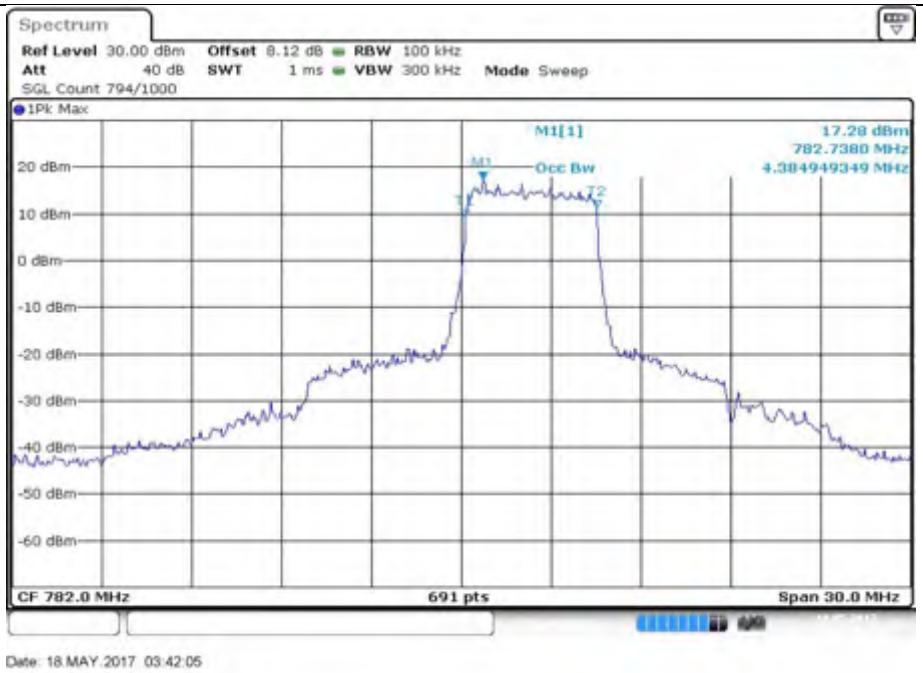

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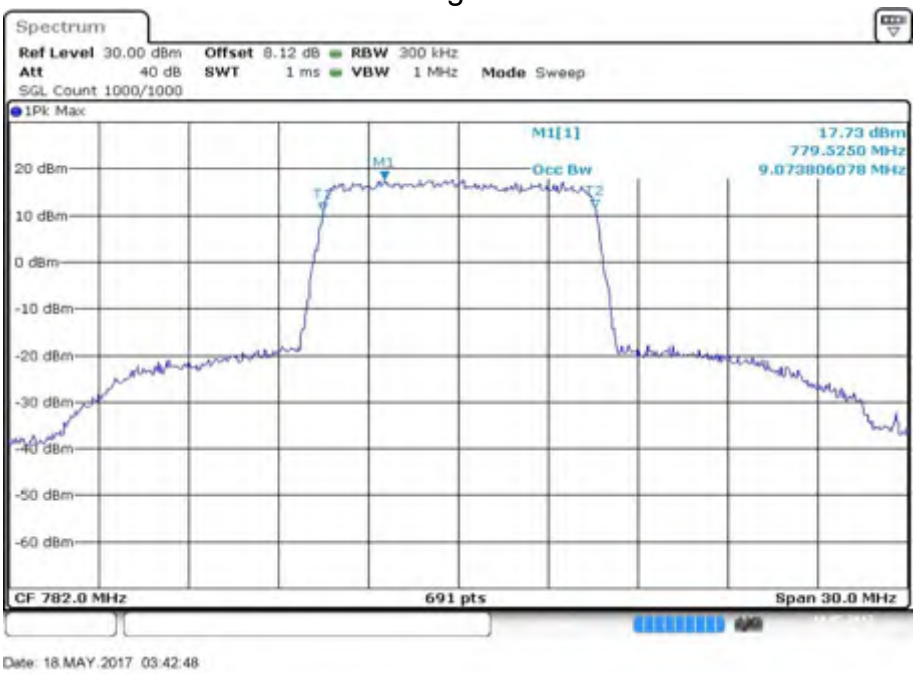

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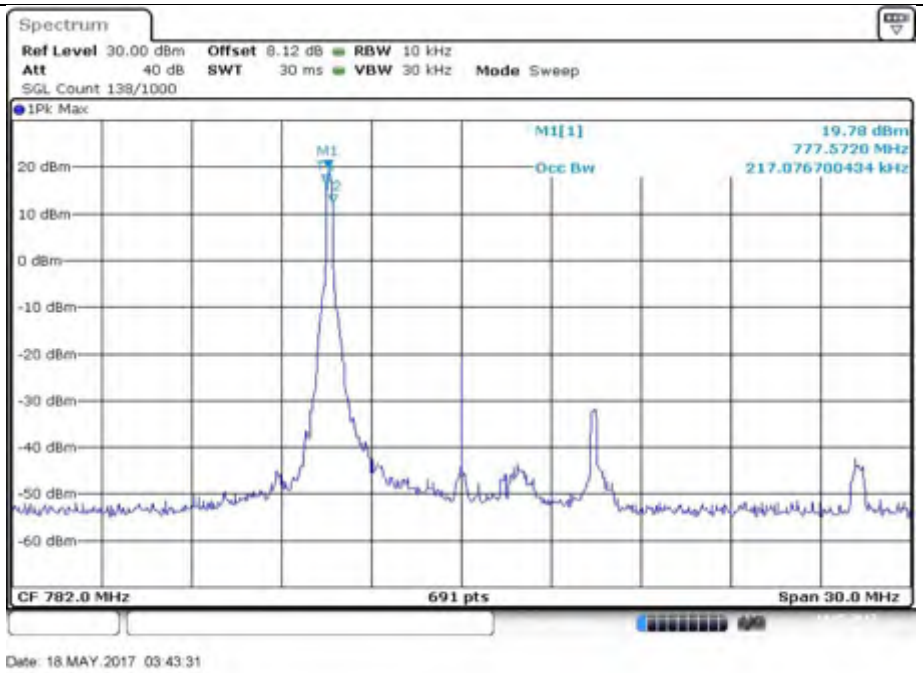

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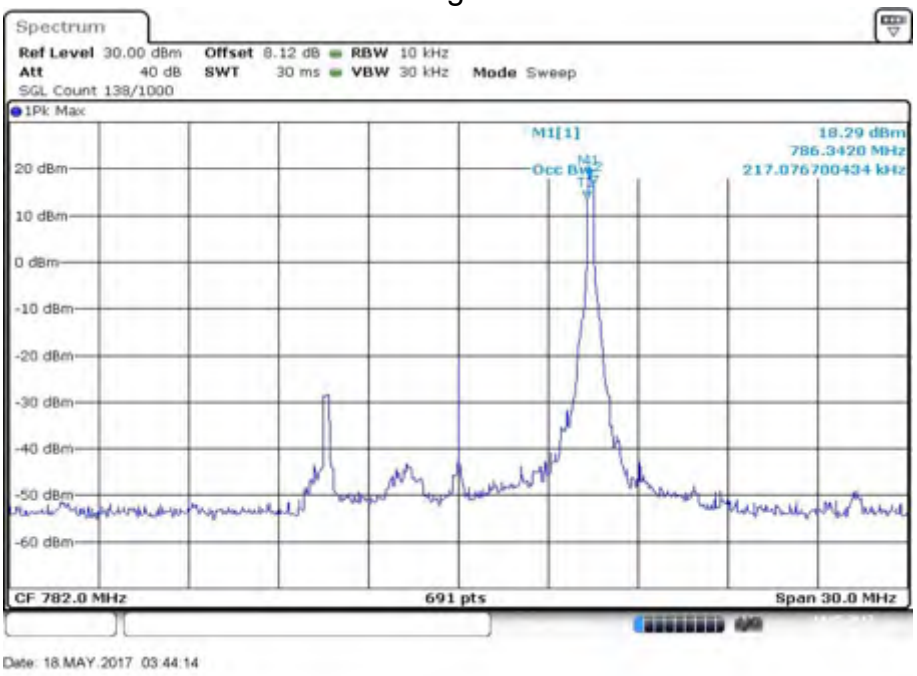

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Fig.6

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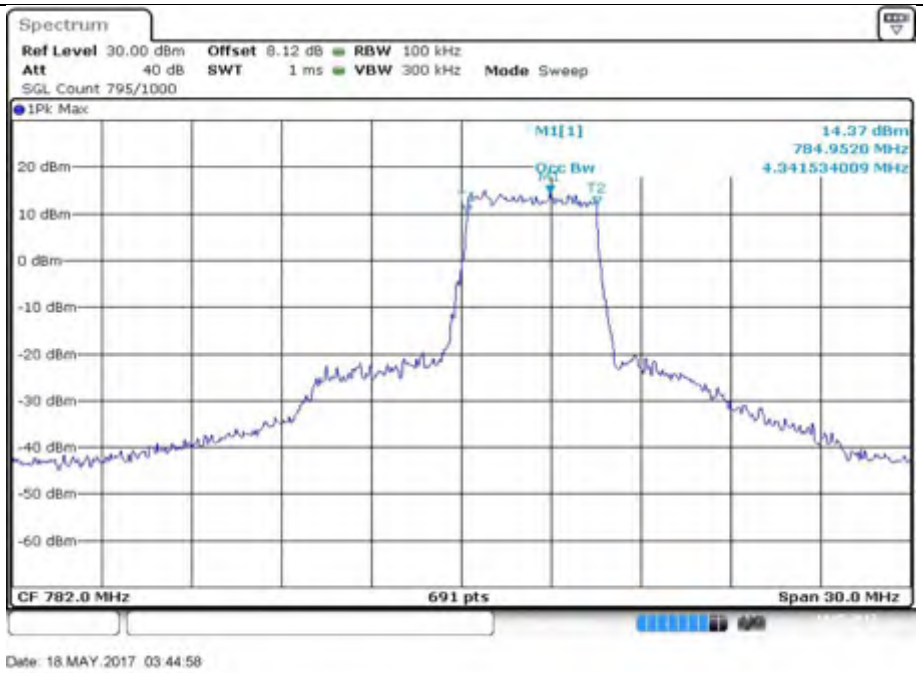

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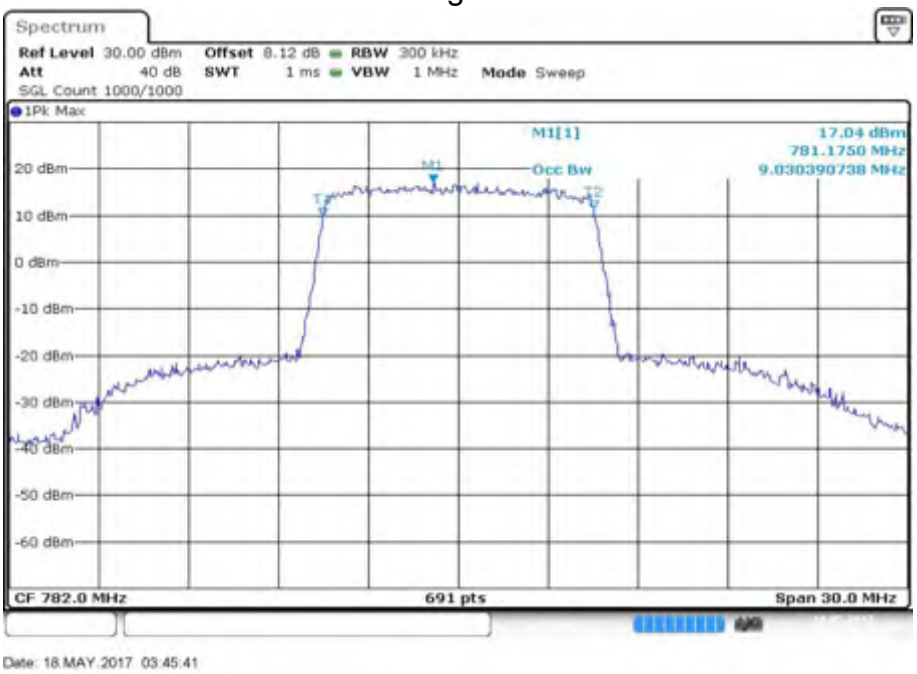

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
13	782	23230	10	1	0	0.217	Fig.1	0.217	Fig.5
				1	49	0.217	Fig.2	0.217	Fig.6
				24	12	4.342	Fig.3	4.342	Fig.7
				50	0	9.030	Fig.4	9.030	Fig.8

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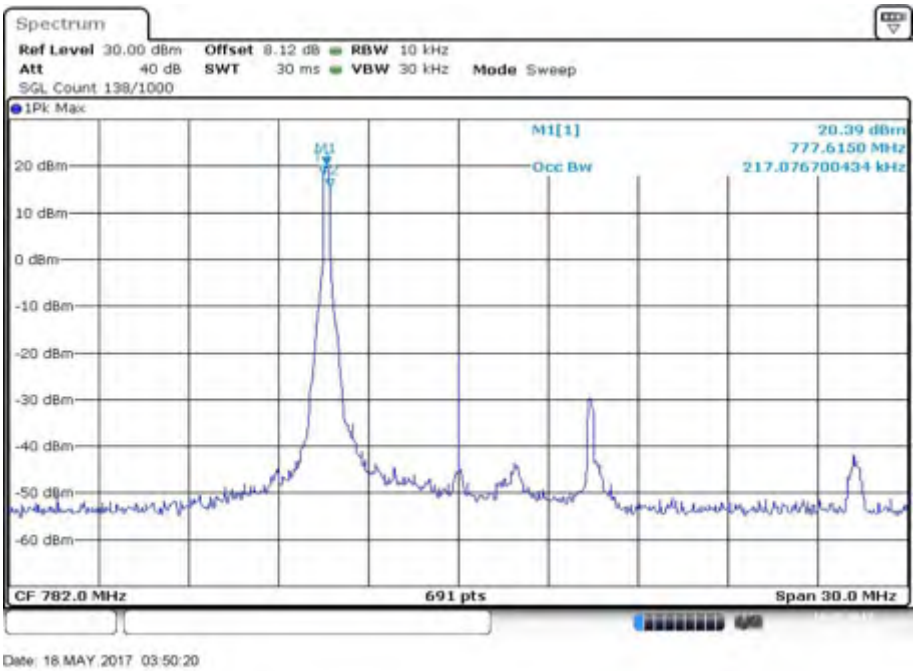

Fig.1

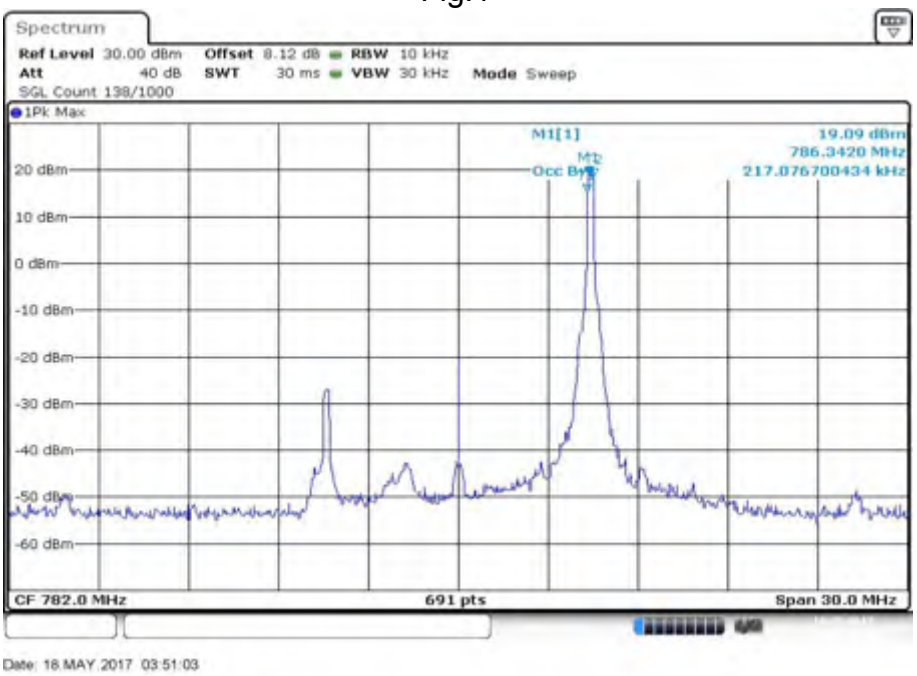

Fig.2

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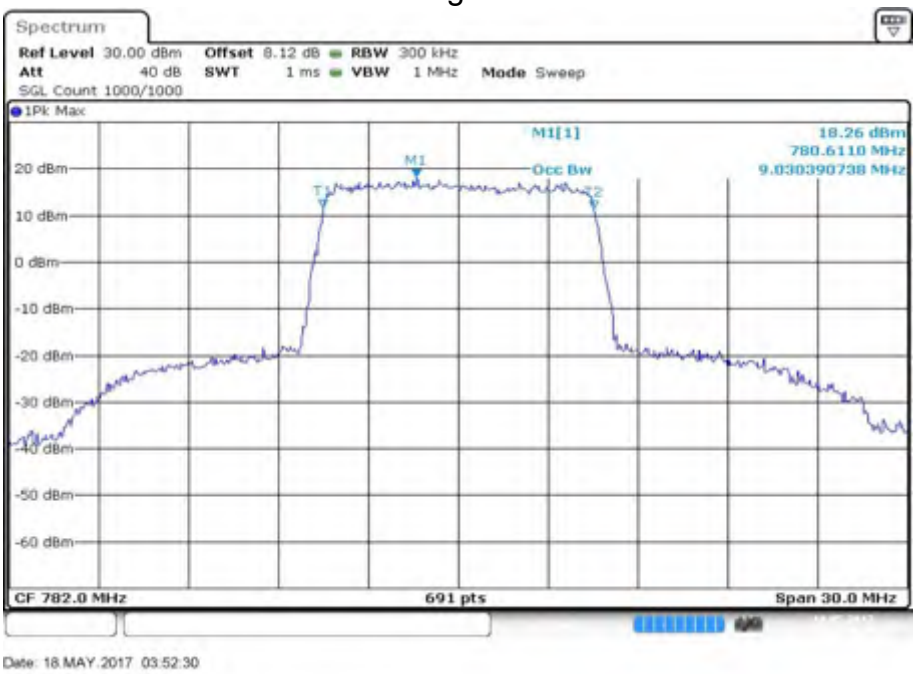
Fig.3



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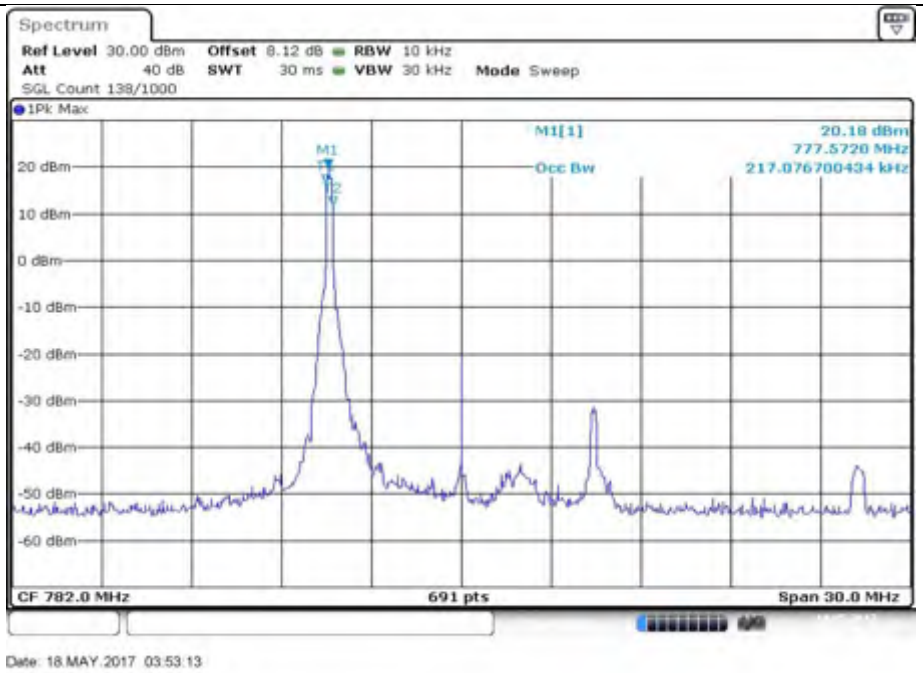

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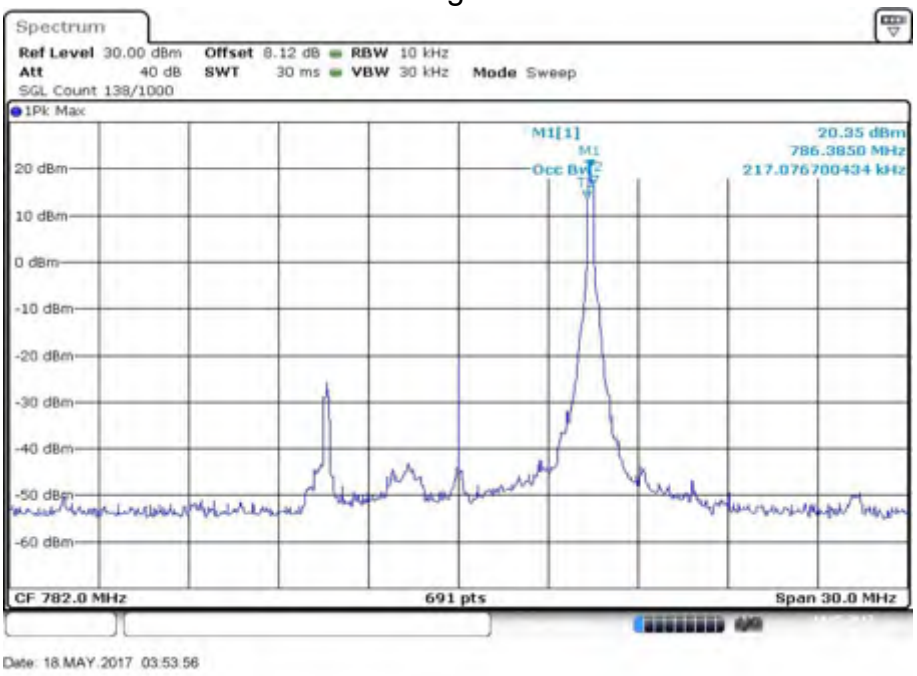

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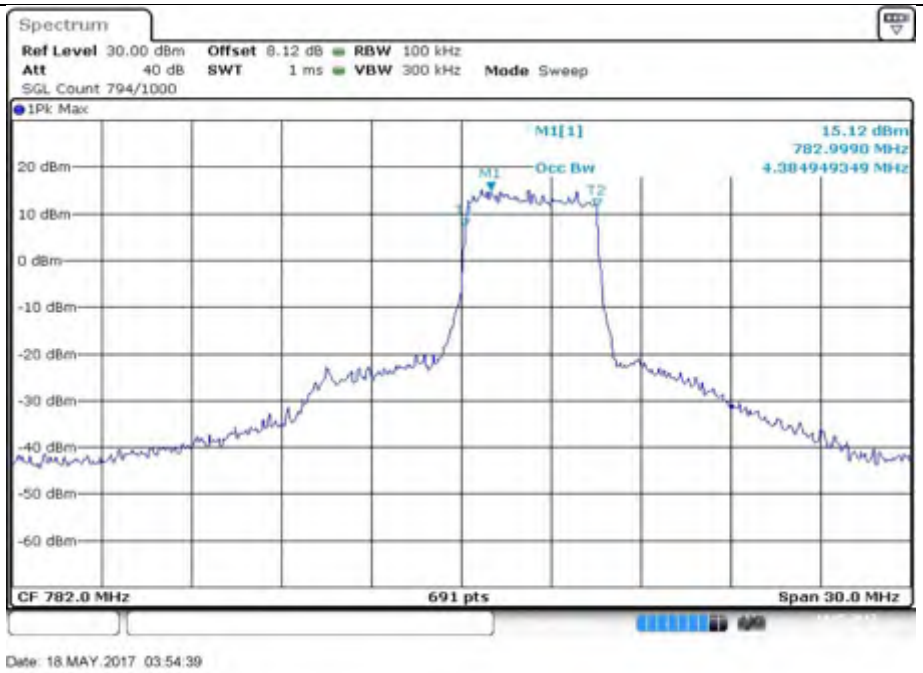

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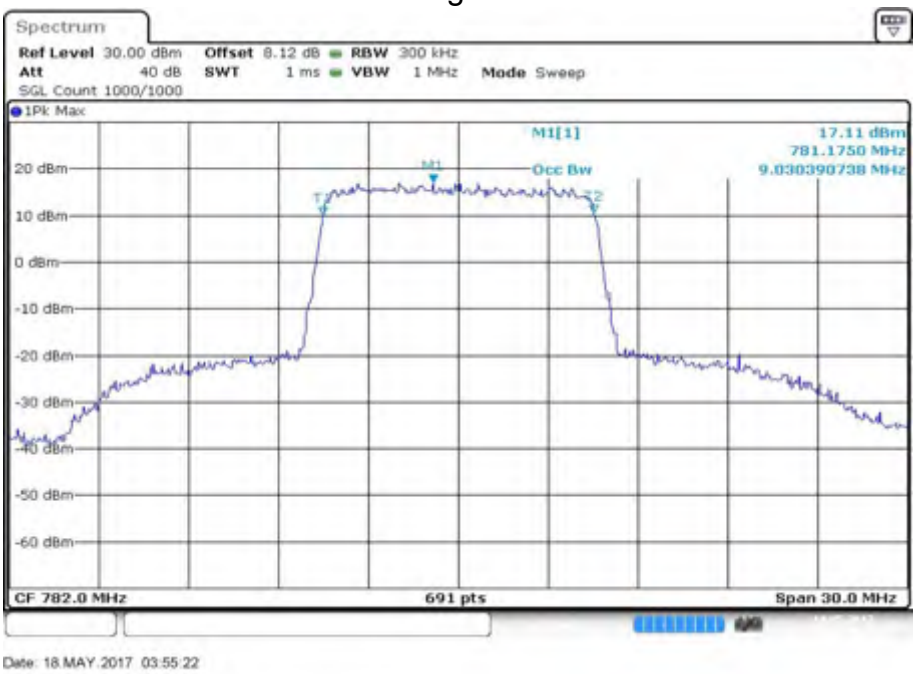

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
13	782	23230	10	1	0	0.217	Fig.1	0.217	Fig.5
				1	49	0.217	Fig.2	0.217	Fig.6
				24	12	4.385	Fig.3	4.385	Fig.7
				50	0	9.030	Fig.4	8.987	Fig.8

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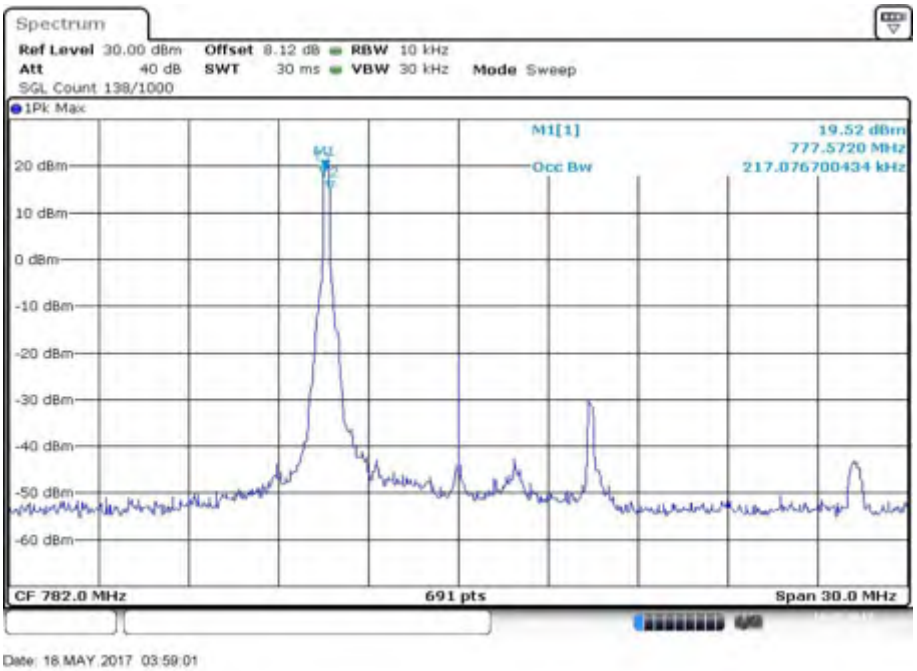

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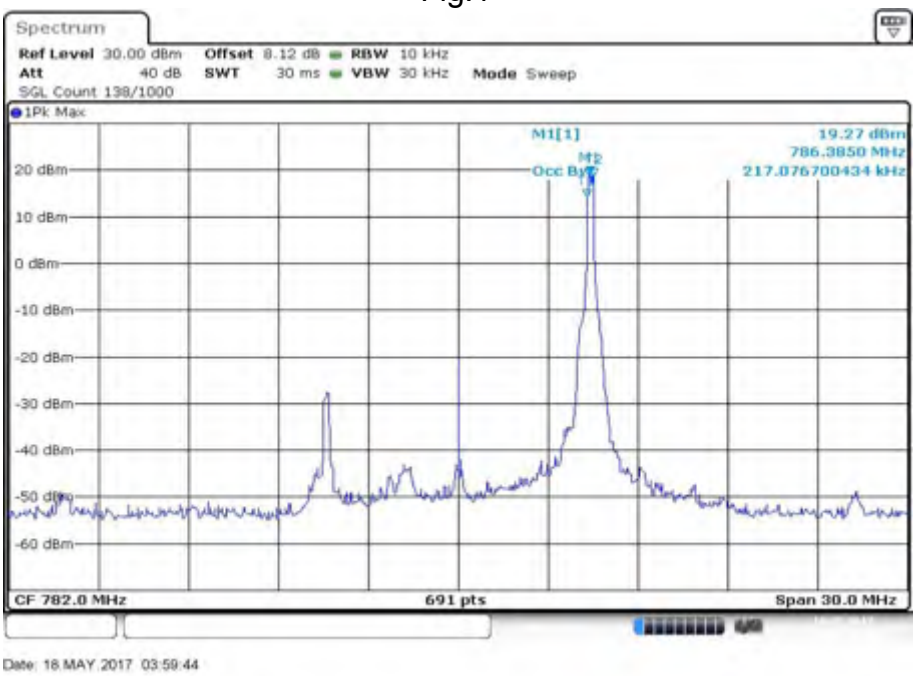

Fig.2

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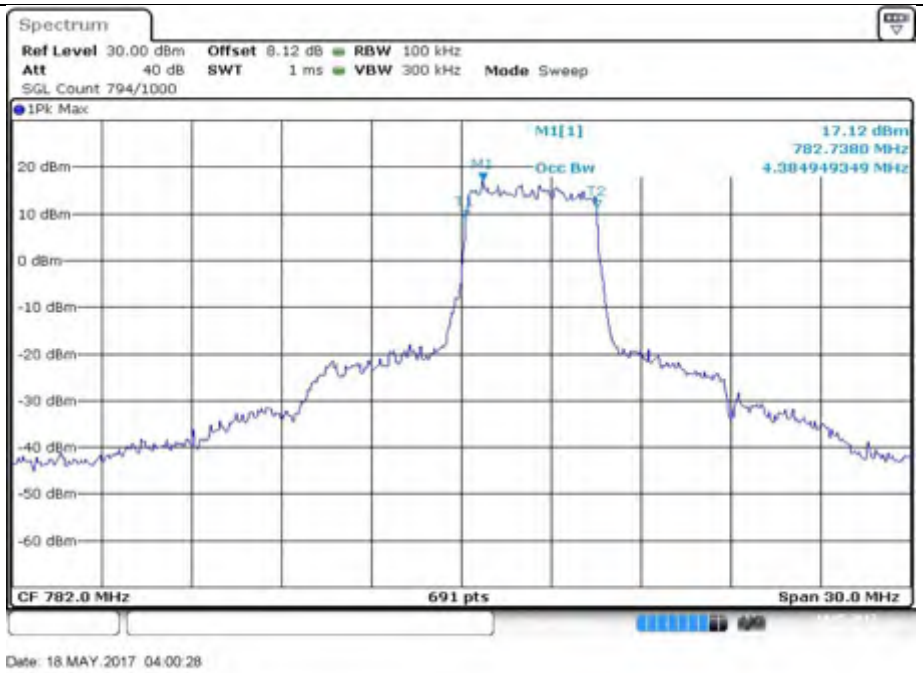

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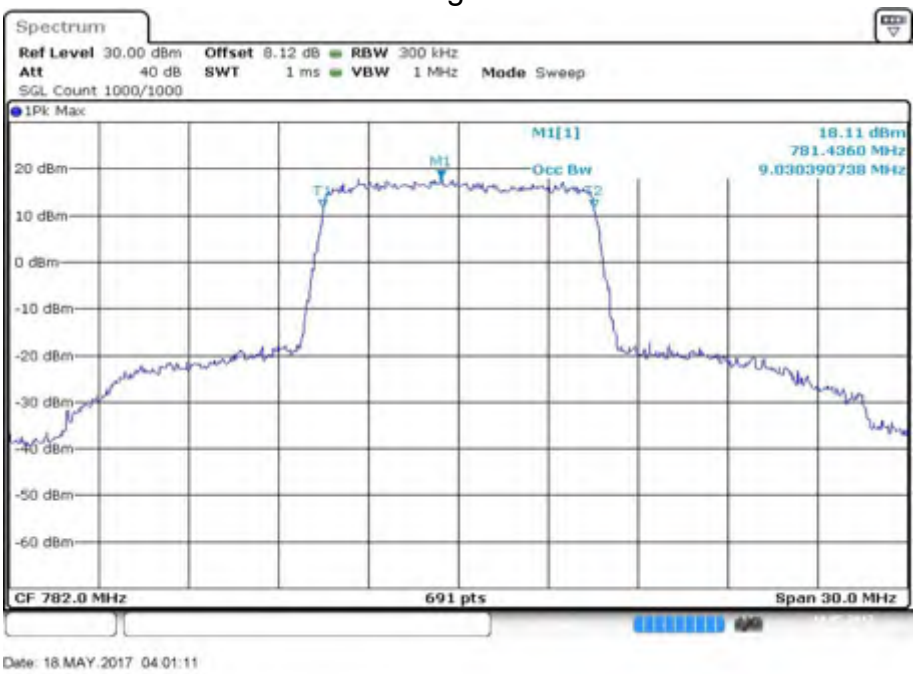

Fig.4

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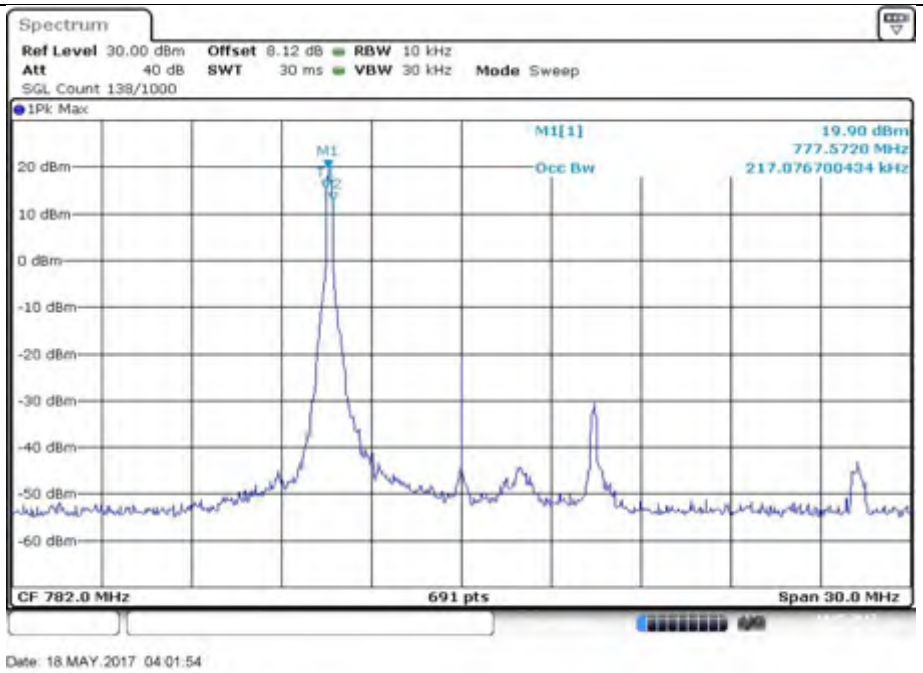

Fig.5

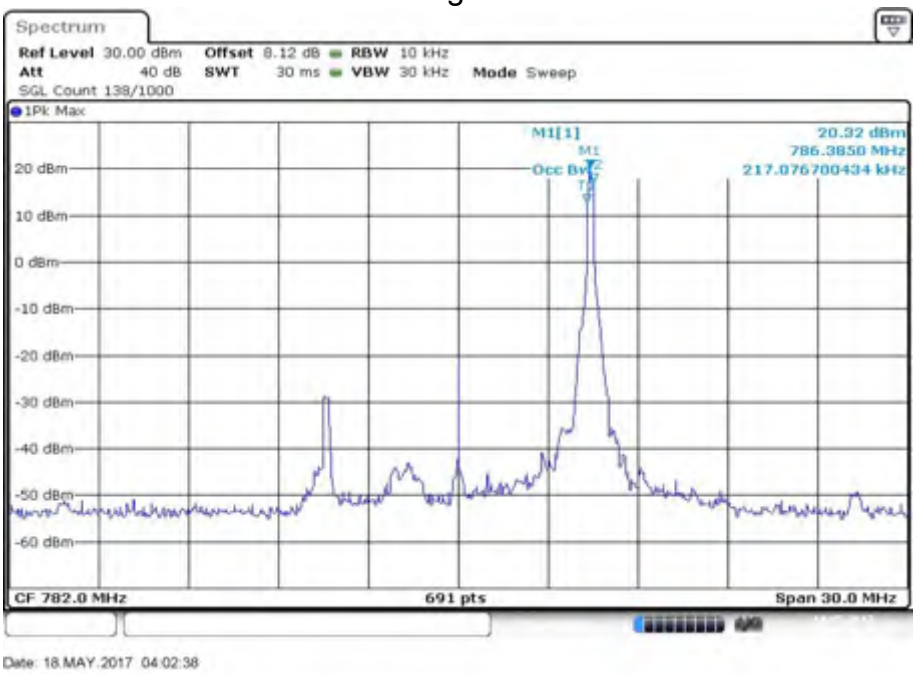

Fig.6

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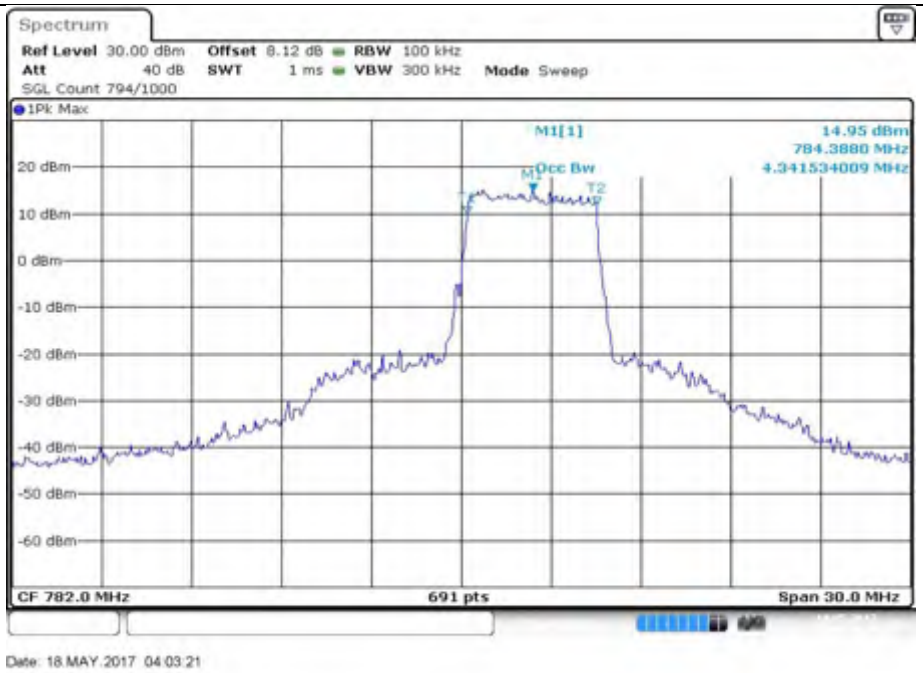

Fig.7

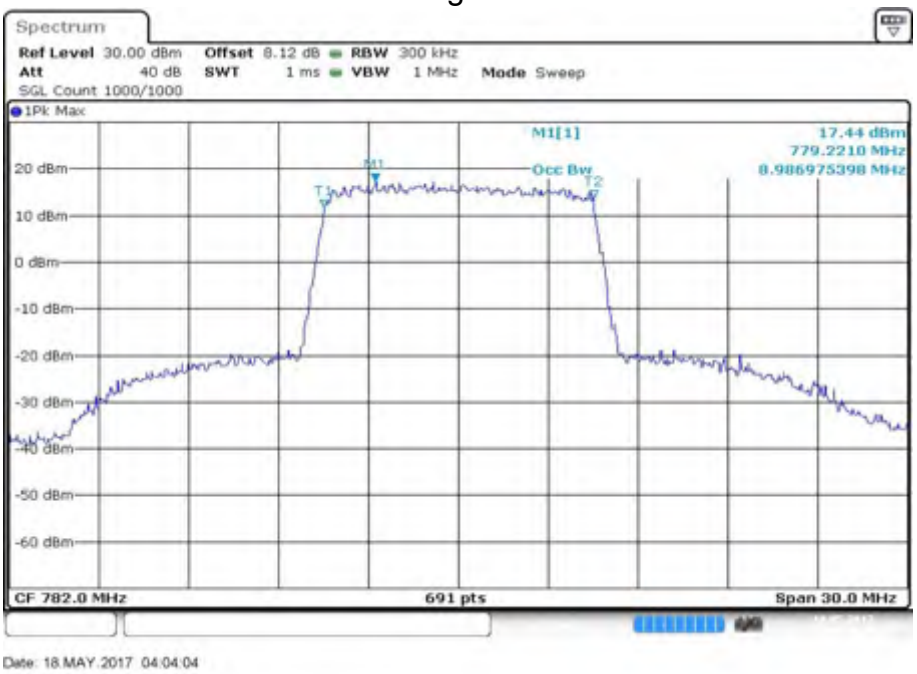

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1850.7	18607	1.4	1	0	0.219	Fig.1	0.219	Fig.5
				1	5	0.213	Fig.2	0.219	Fig.6
				3	2	0.577	Fig.3	0.571	Fig.7
				6	0	1.094	Fig.4	1.100	Fig.8

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Fig.1

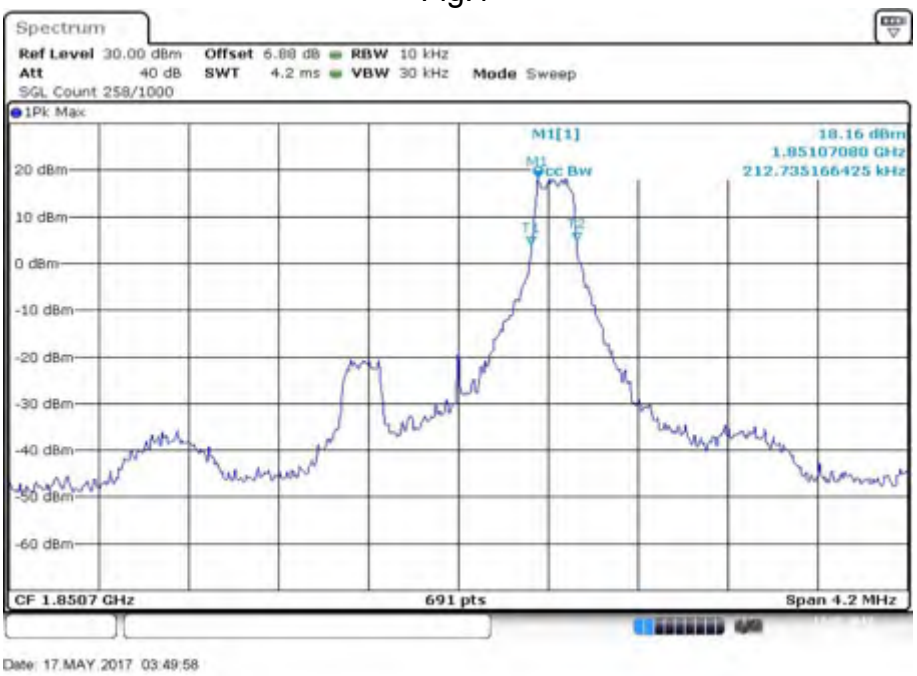

Fig.2

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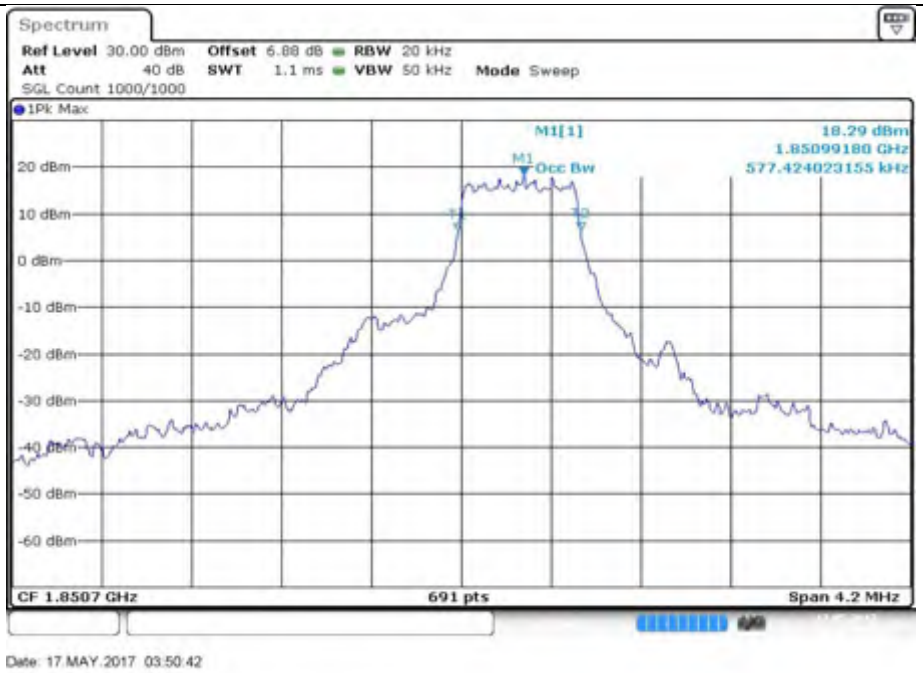

Date: 17.MAY.2017 03:50:42

Fig.3

Date: 17.MAY.2017 03:51:25

Fig.4

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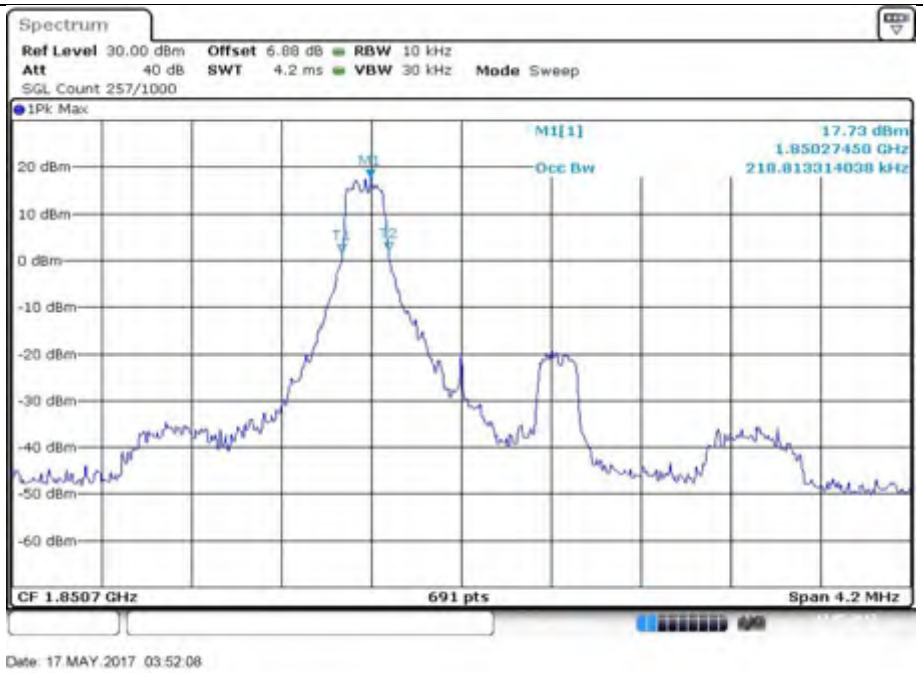

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Fig.5

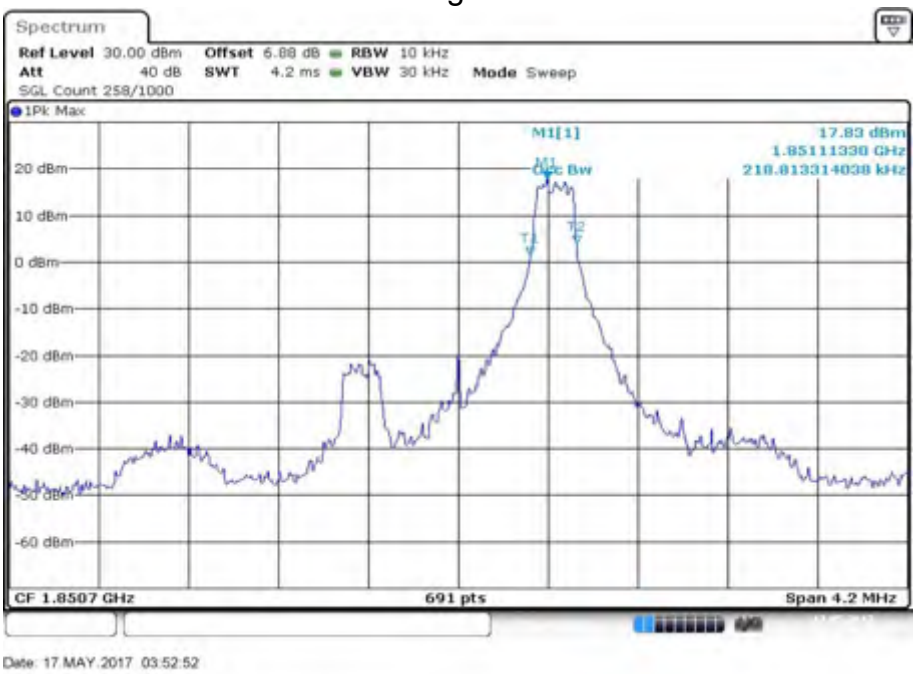

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Fig.6

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Fig.7

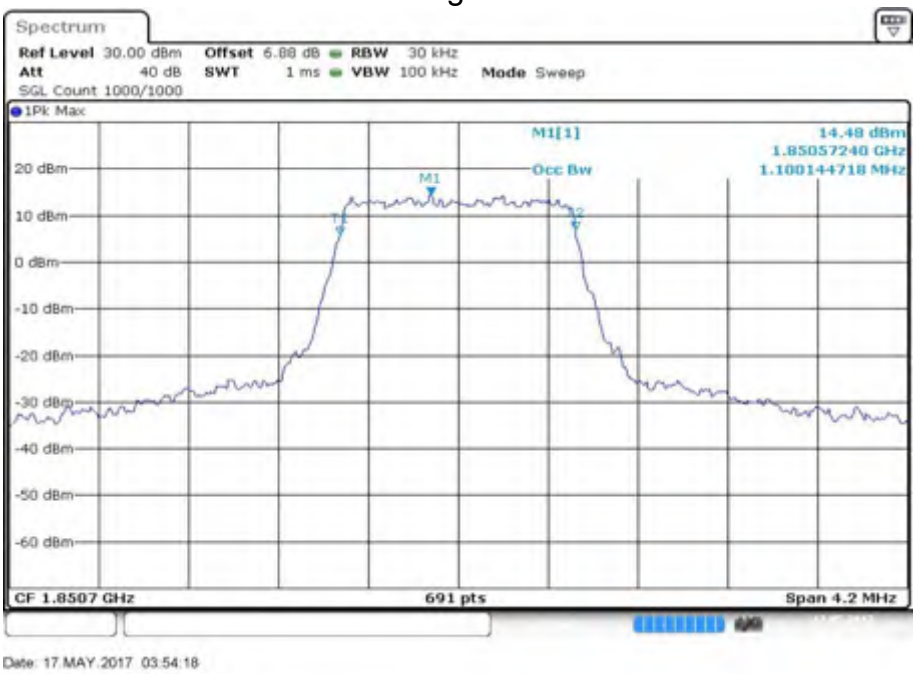

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1880	18900	1.4	1	0	0.213	Fig.1	0.231	Fig.5
				1	5	0.213	Fig.2	0.219	Fig.6
				3	2	0.577	Fig.3	0.577	Fig.7
				6	0	1.100	Fig.4	1.100	Fig.8

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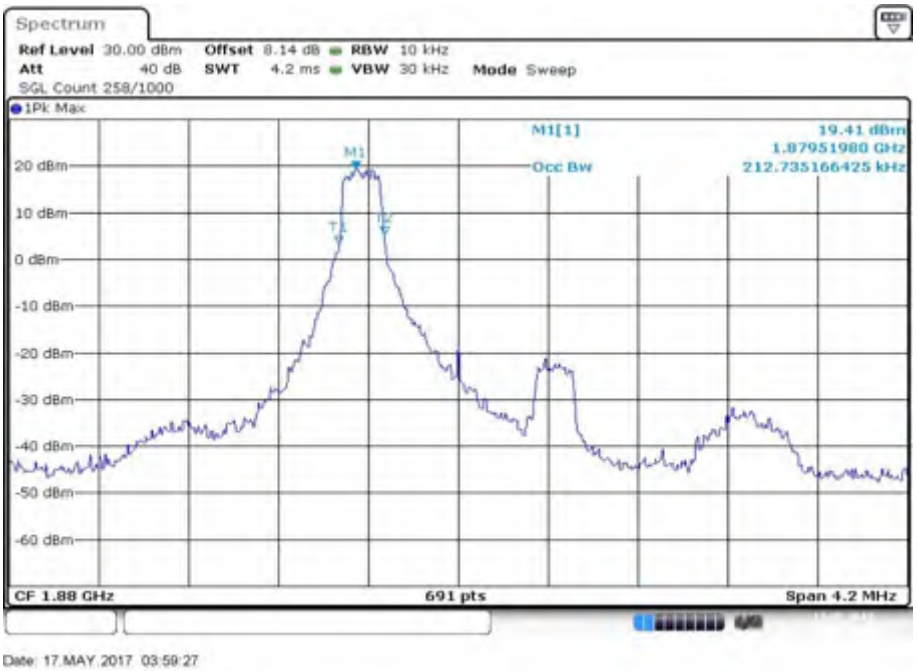

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Fig.1

Date: 17.MAY.2017 04:00:10

Fig.2

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Date: 17.MAY.2017 04:00:53

Fig.3

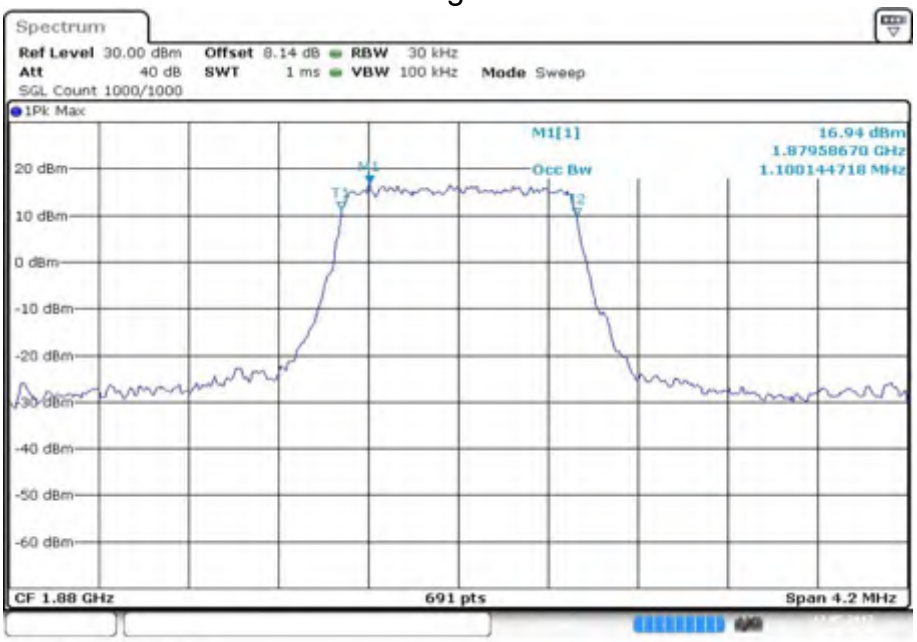

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Fig.4

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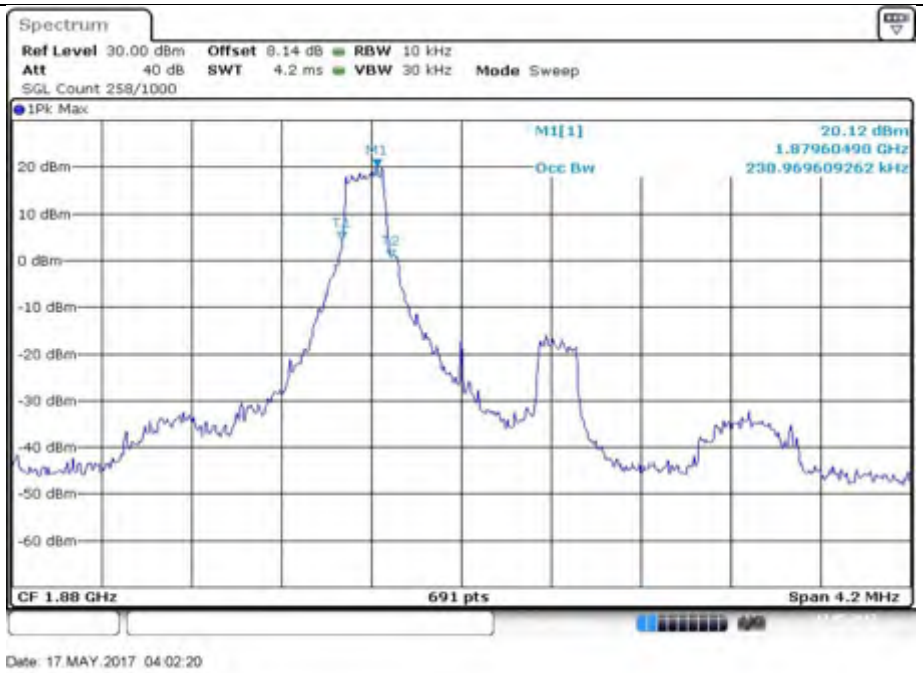

Fig.5

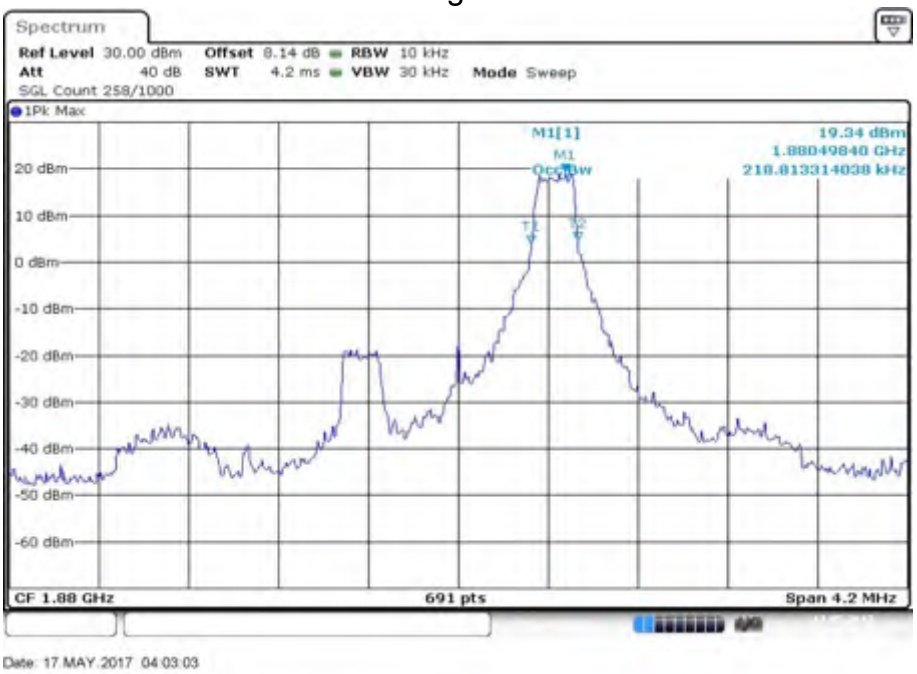

Fig.6

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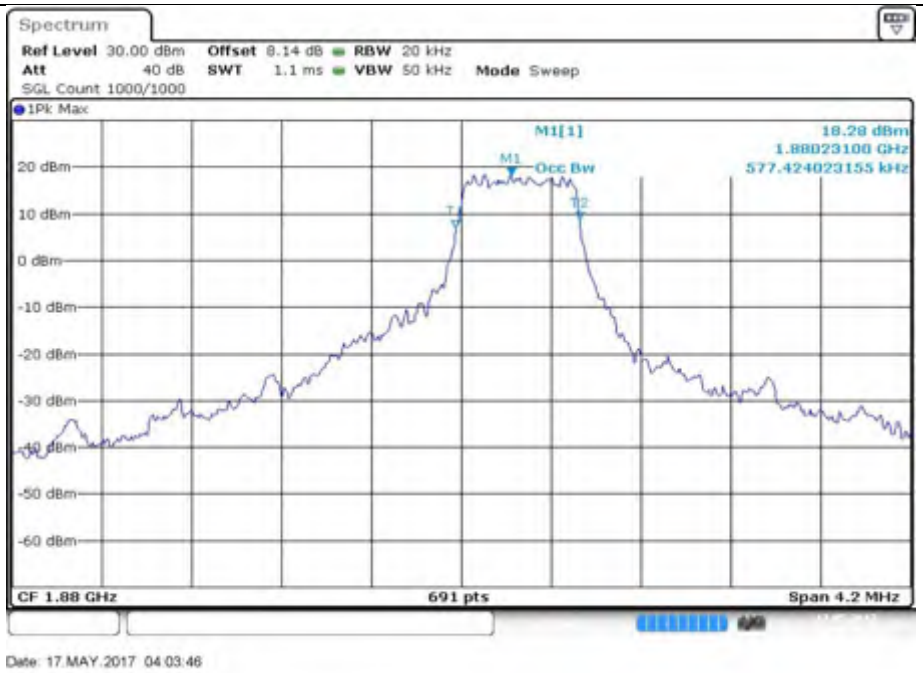

Fig.7

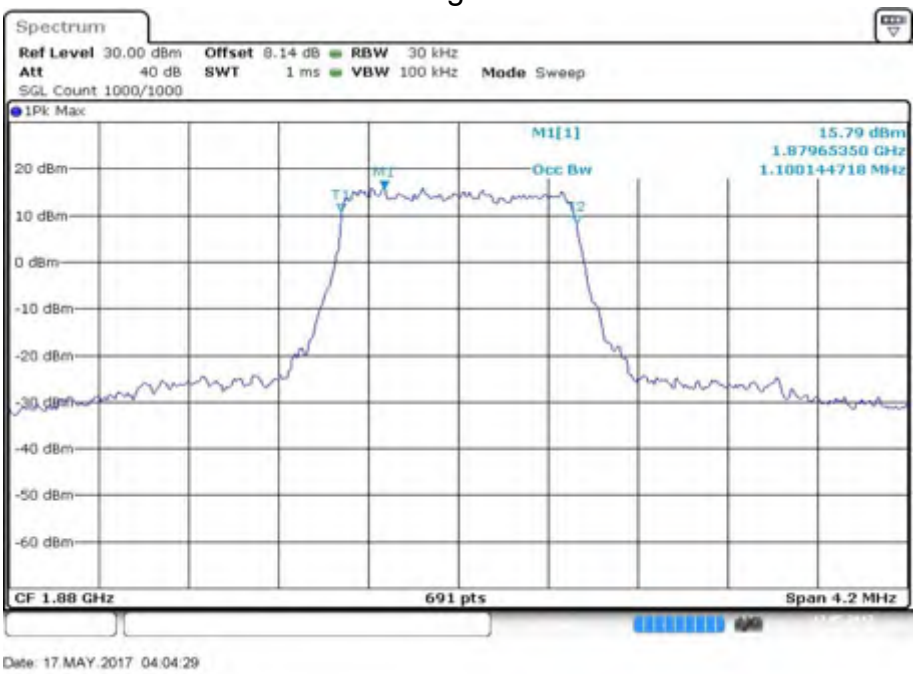

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1909.3	19193	1.4	1	0	0.225	Fig.1	0.219	Fig.5
				1	5	0.231	Fig.2	0.225	Fig.6
				3	2	0.577	Fig.3	0.571	Fig.7
				6	0	1.094	Fig.4	1.100	Fig.8

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Fig.1

Fig.2

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Fig.3

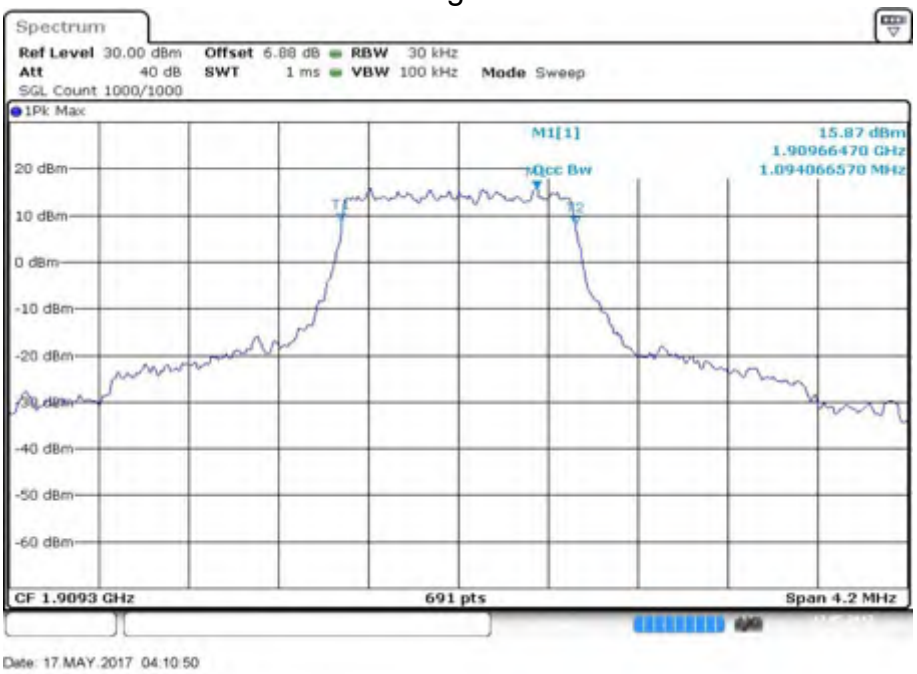

Fig.4

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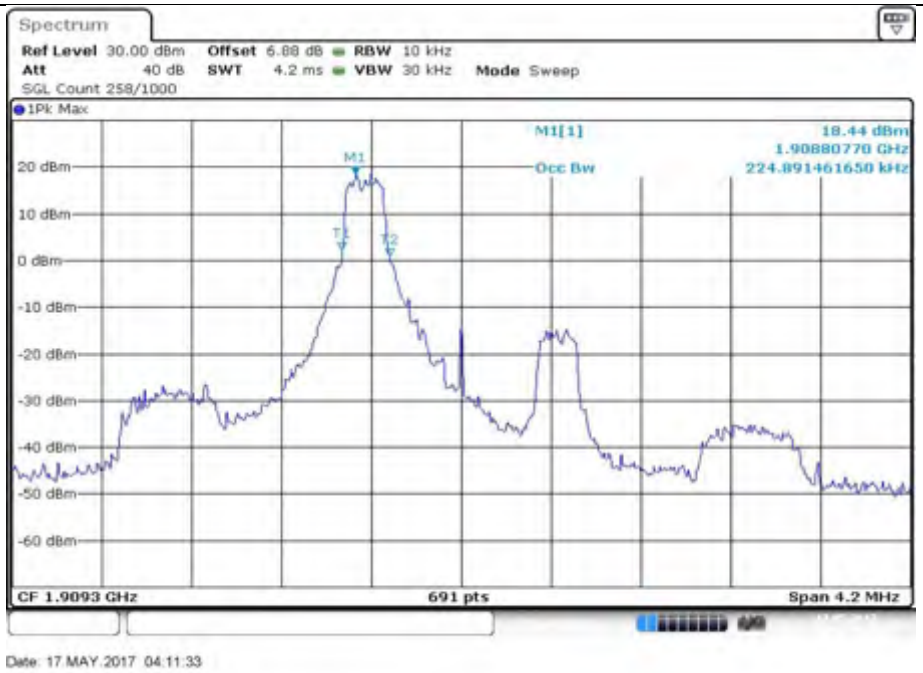

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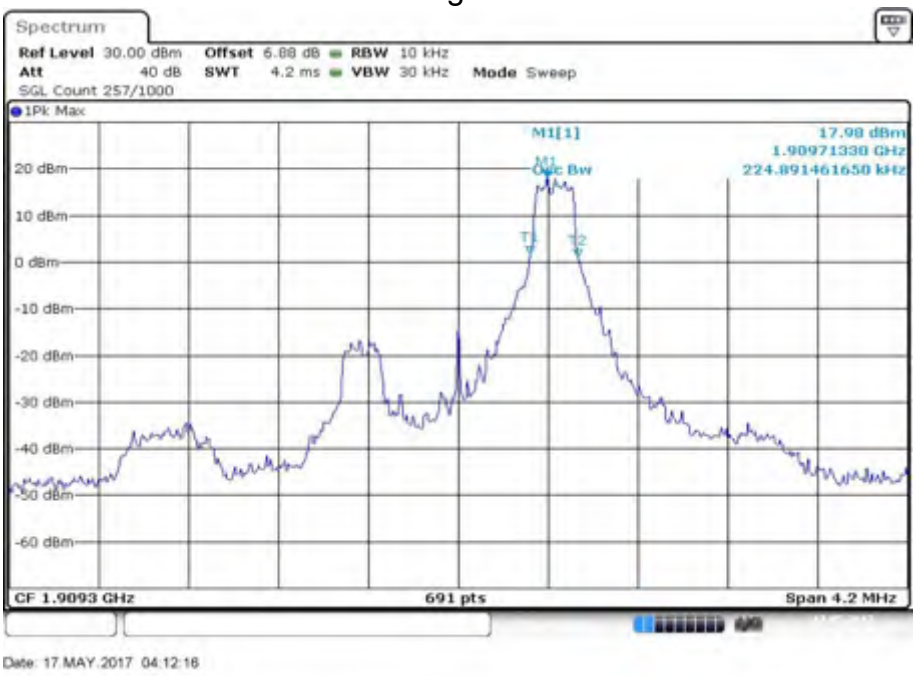

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Fig.6

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Fig.7

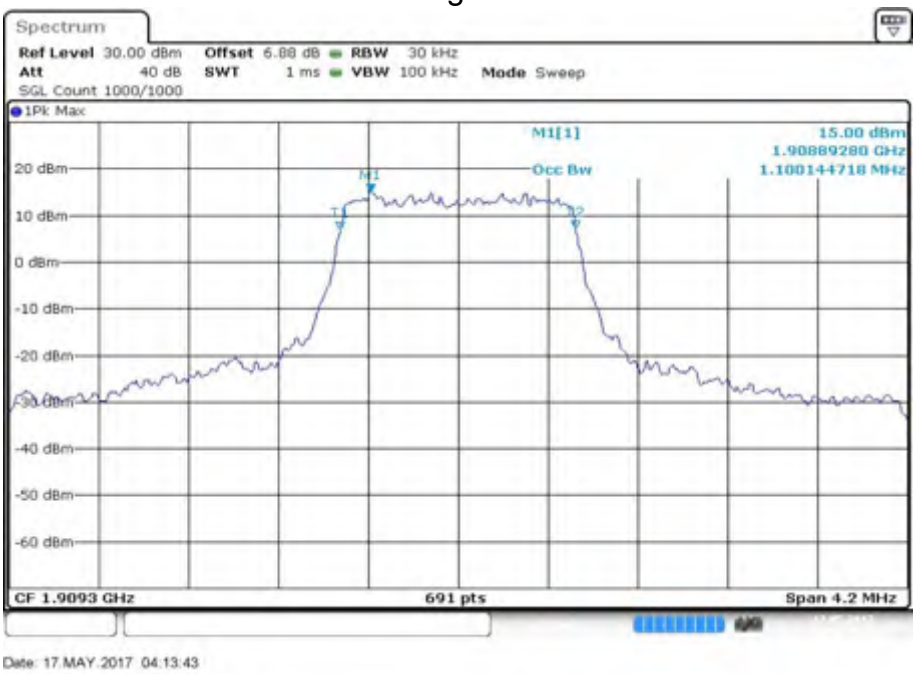

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1851.5	18615	3	1	0	0.221	Fig.1	0.221	Fig.5
				1	14	0.221	Fig.2	0.221	Fig.6
				8	4	1.472	Fig.3	1.459	Fig.7
				15	0	2.735	Fig.4	2.735	Fig.8

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Fig.1

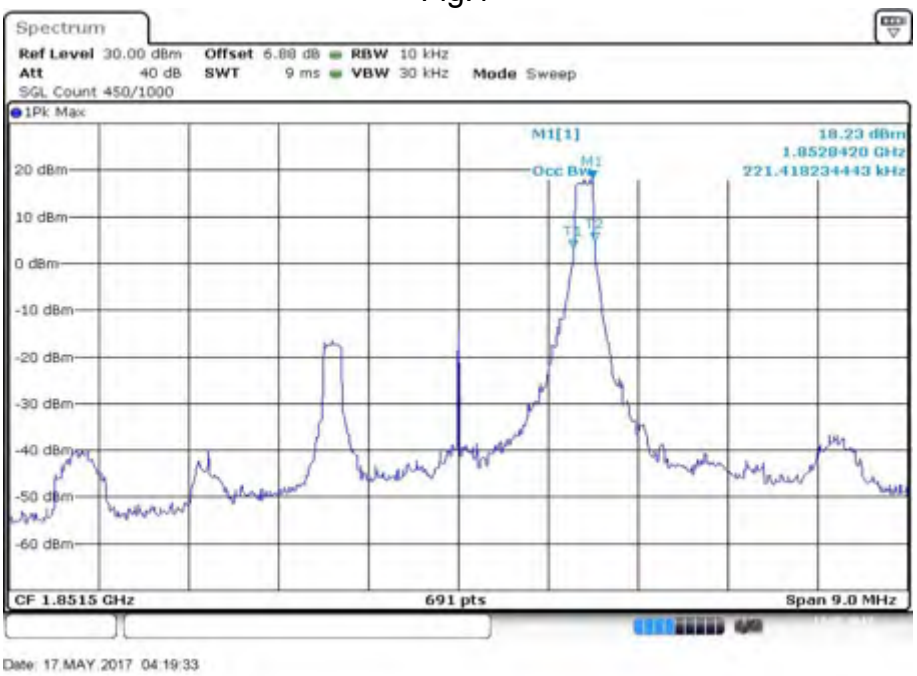

Fig.2

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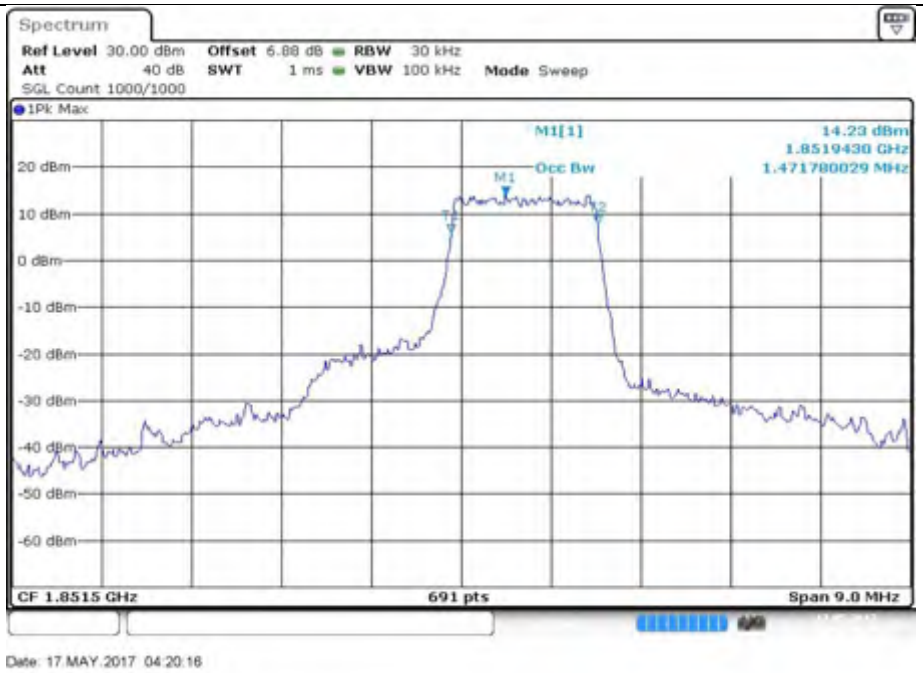

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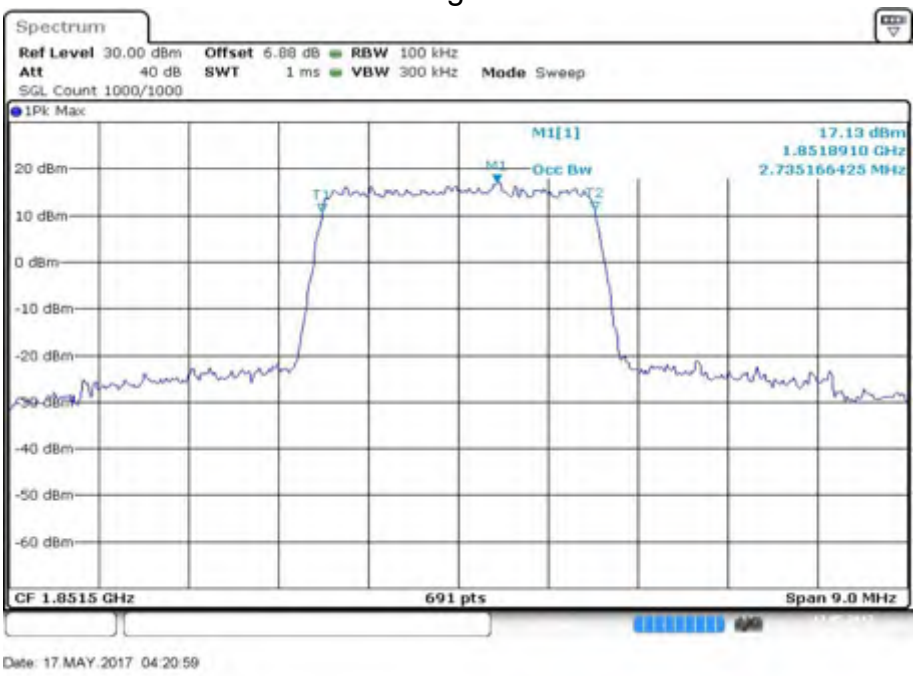

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Fig.4

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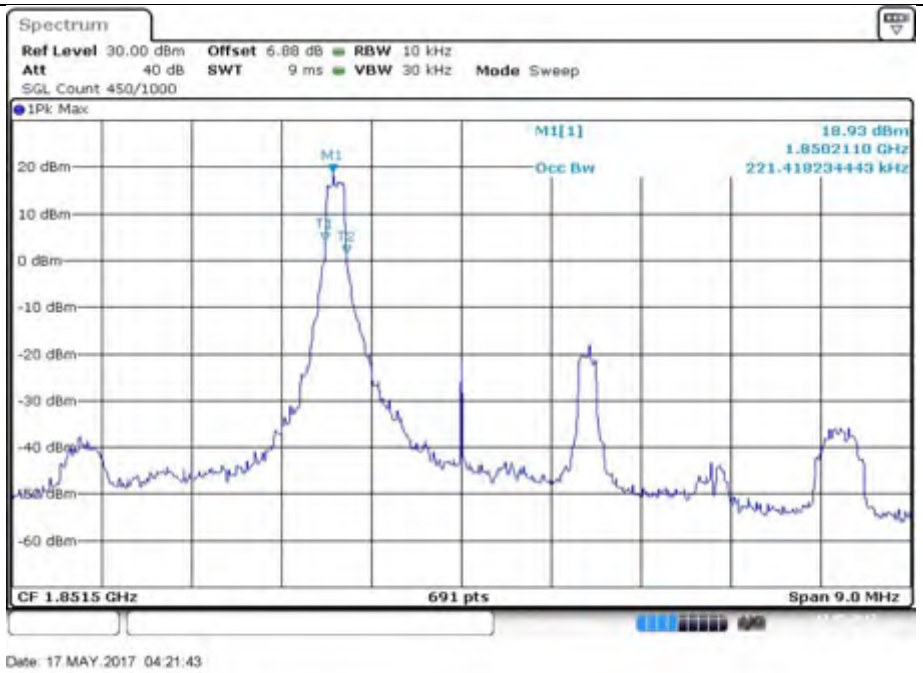

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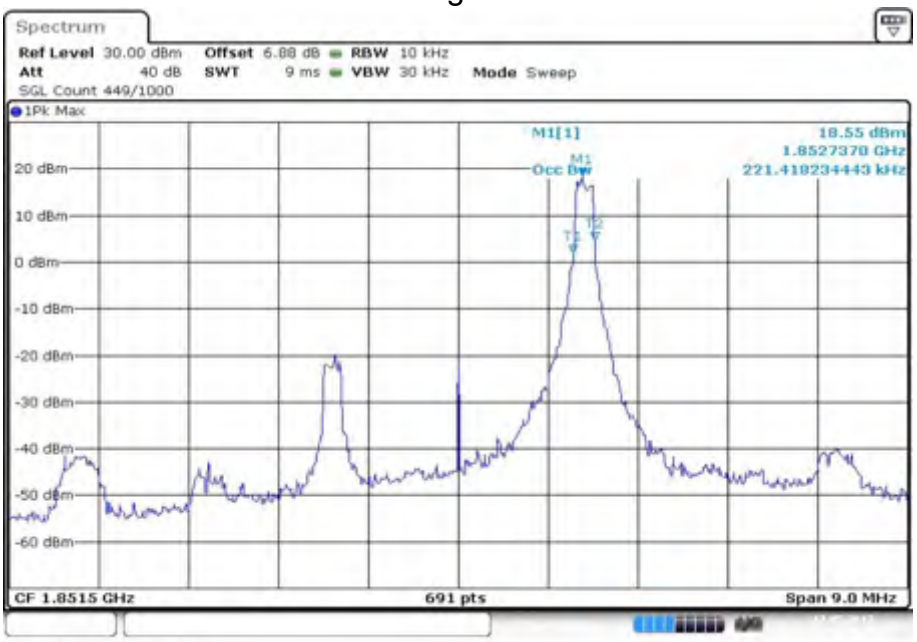

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Fig.6

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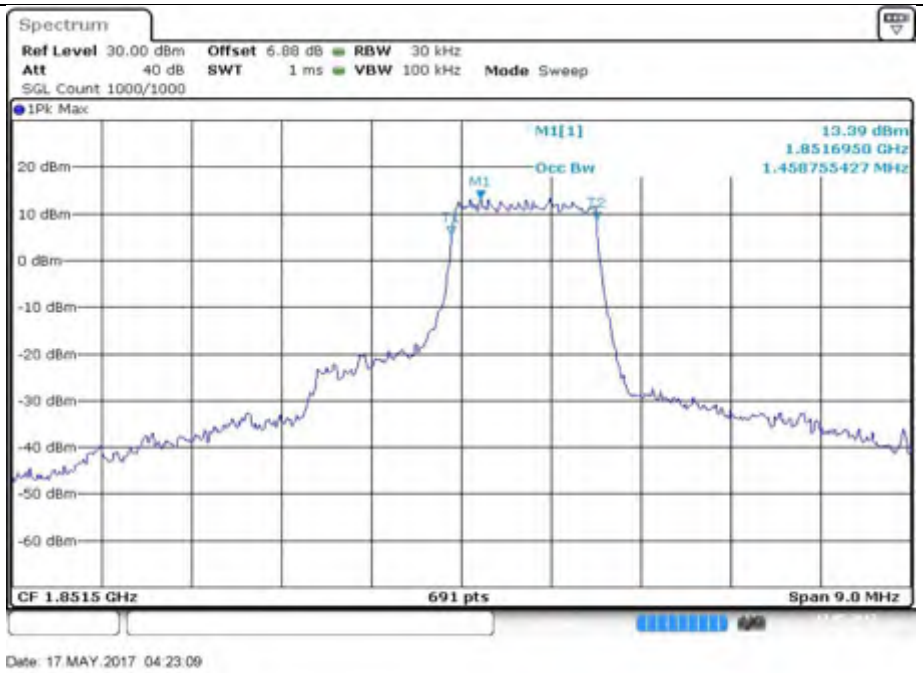

Fig.7

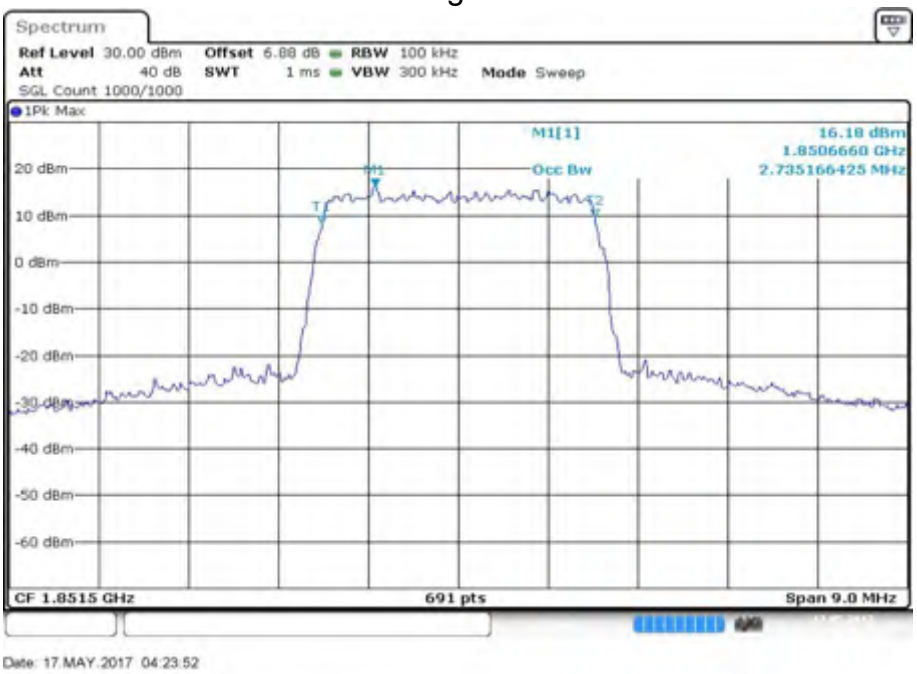

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1880	18900	3	1	0	0.221	Fig.1	0.234	Fig.5
				1	14	0.221	Fig.2	0.234	Fig.6
				8	4	1.459	Fig.3	1.459	Fig.7
				15	0	2.748	Fig.4	2.735	Fig.8

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Fig.1

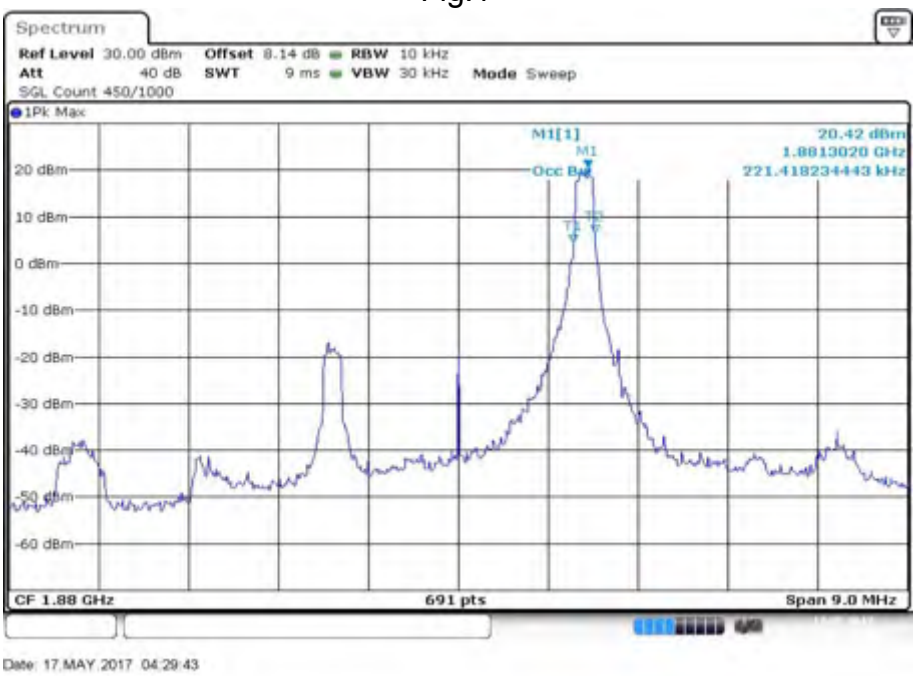

Fig.2

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Fig.3

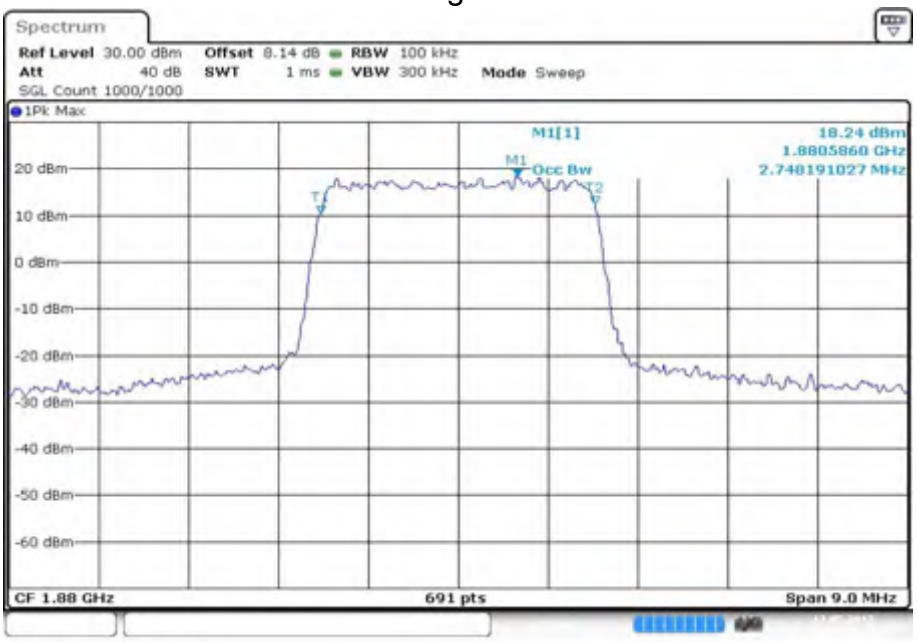

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Fig.4

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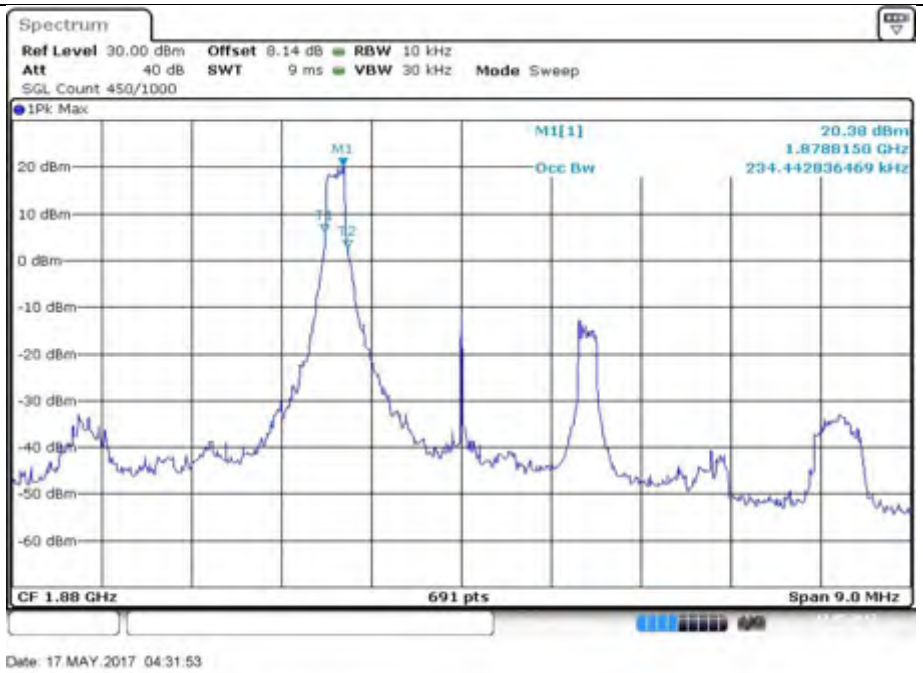

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Fig.5

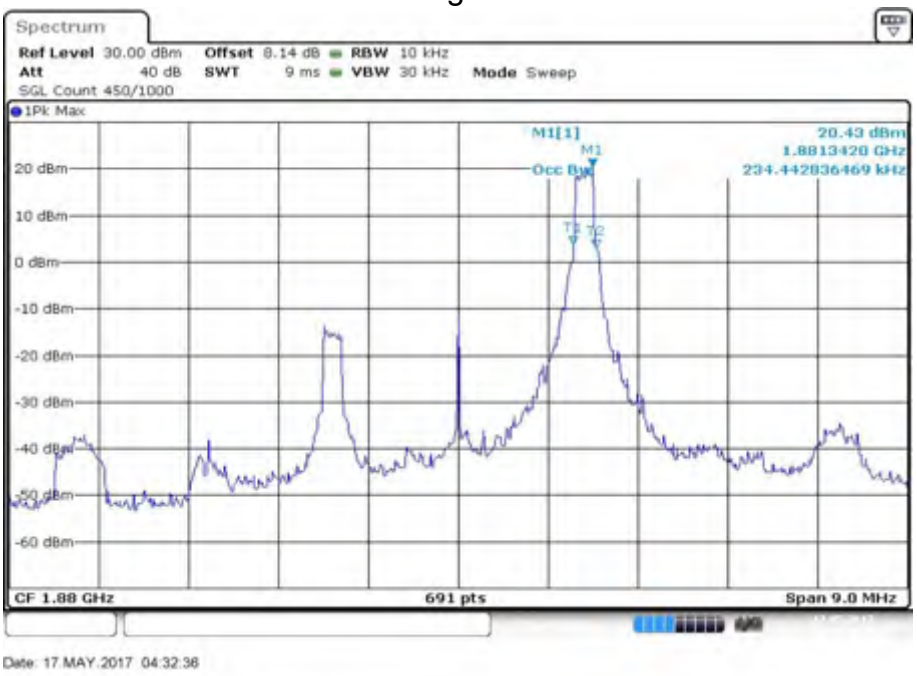

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Fig.6

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Fig.7

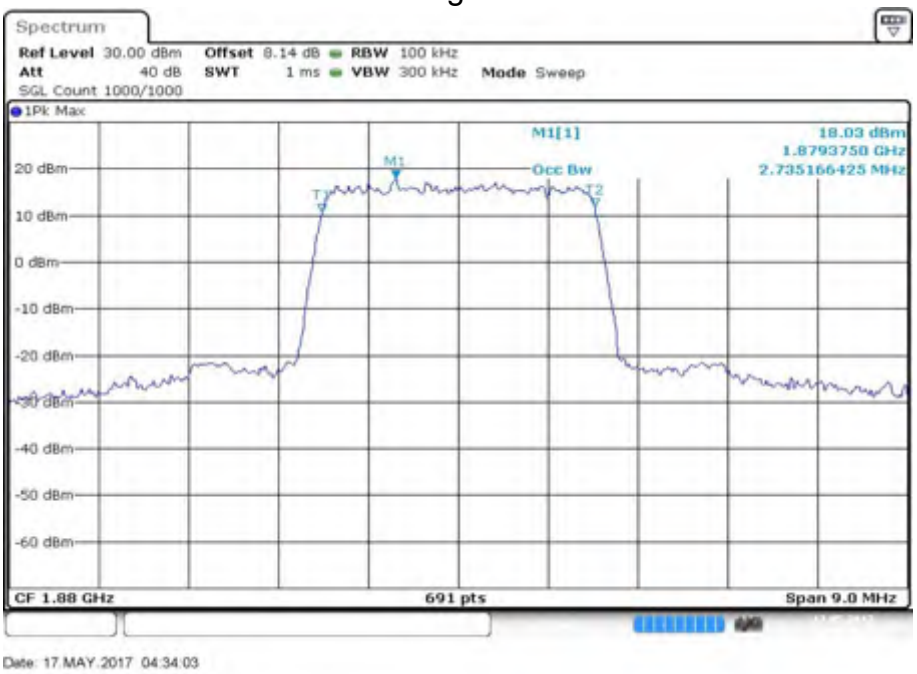

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1908.5	19185	3	1	0	0.221	Fig.1	0.221	Fig.5
				1	14	0.221	Fig.2	0.221	Fig.6
				8	4	1.459	Fig.3	1.459	Fig.7
				15	0	2.748	Fig.4	2.735	Fig.8

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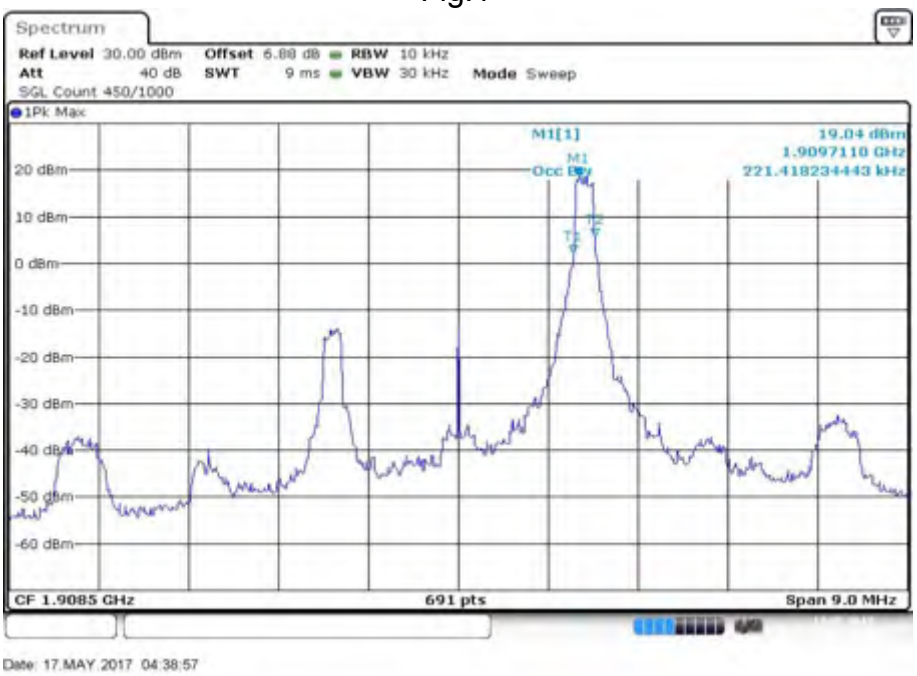
Fig.1



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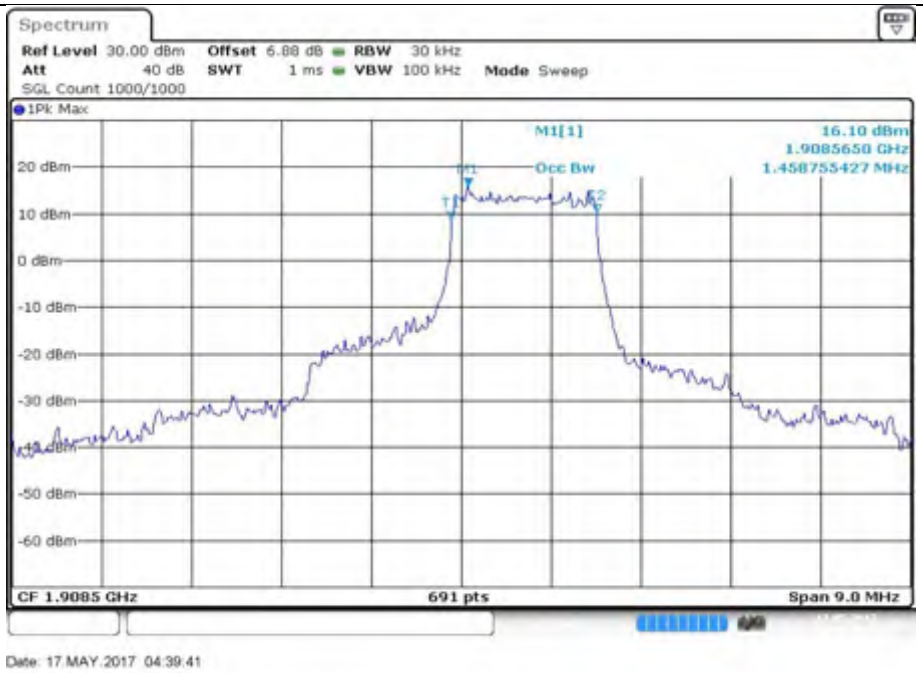

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Fig.3

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Fig.4

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Fig.5

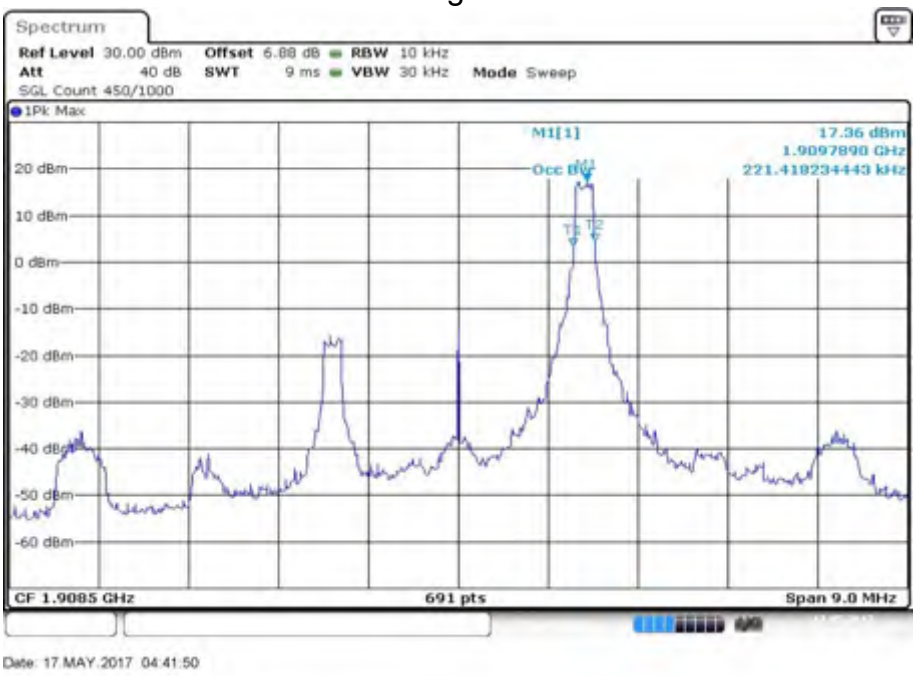

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Fig.6

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Fig.7

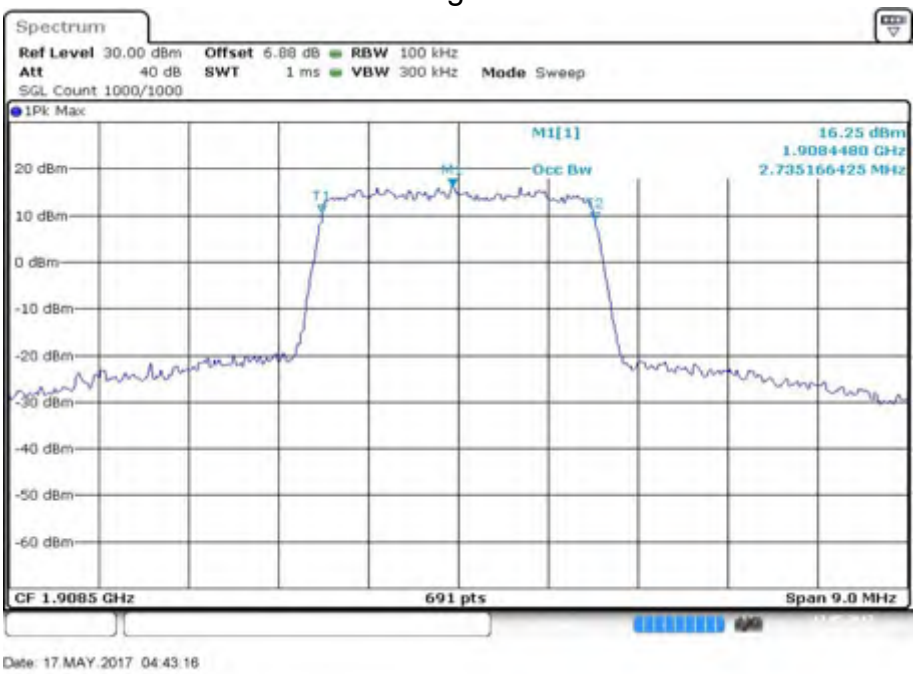

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1852.5	18625	5	1	0	0.239	Fig.1	0.239	Fig.5
				1	24	0.239	Fig.2	0.239	Fig.6
				12	6	2.171	Fig.3	2.171	Fig.7
				25	0	4.515	Fig.4	4.515	Fig.8

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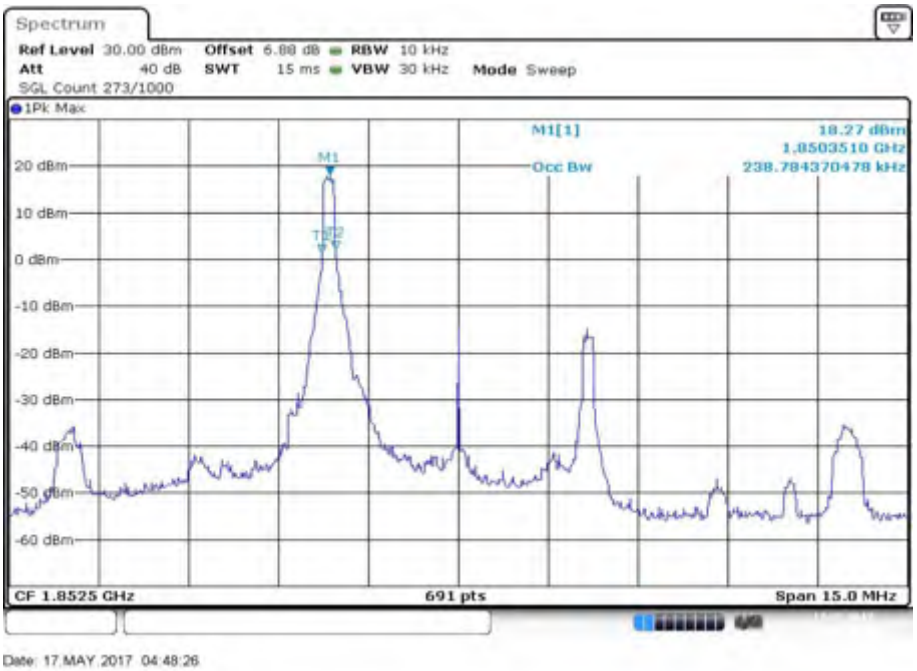

Fig.1

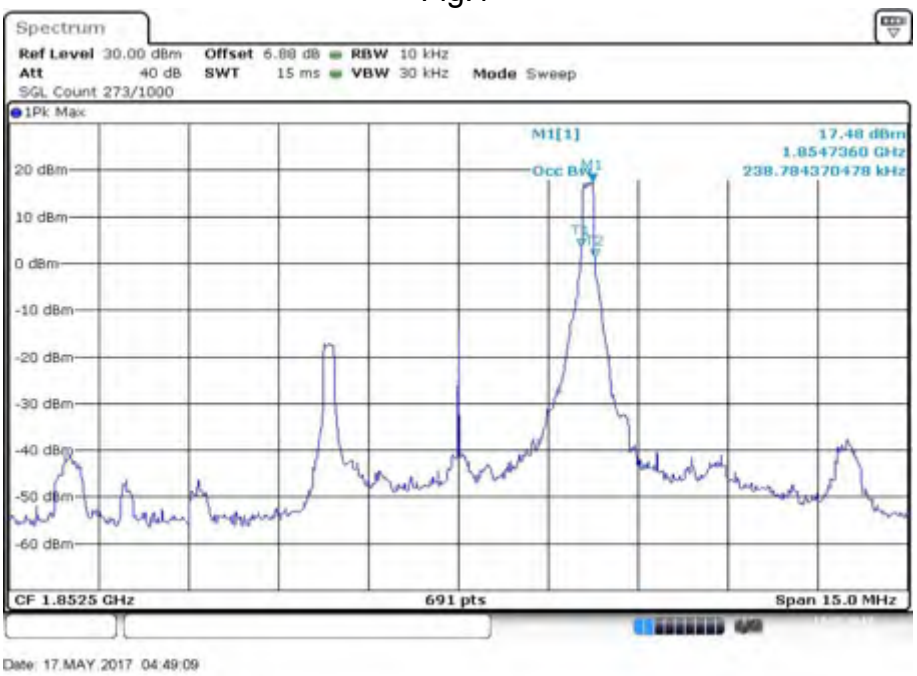

Fig.2

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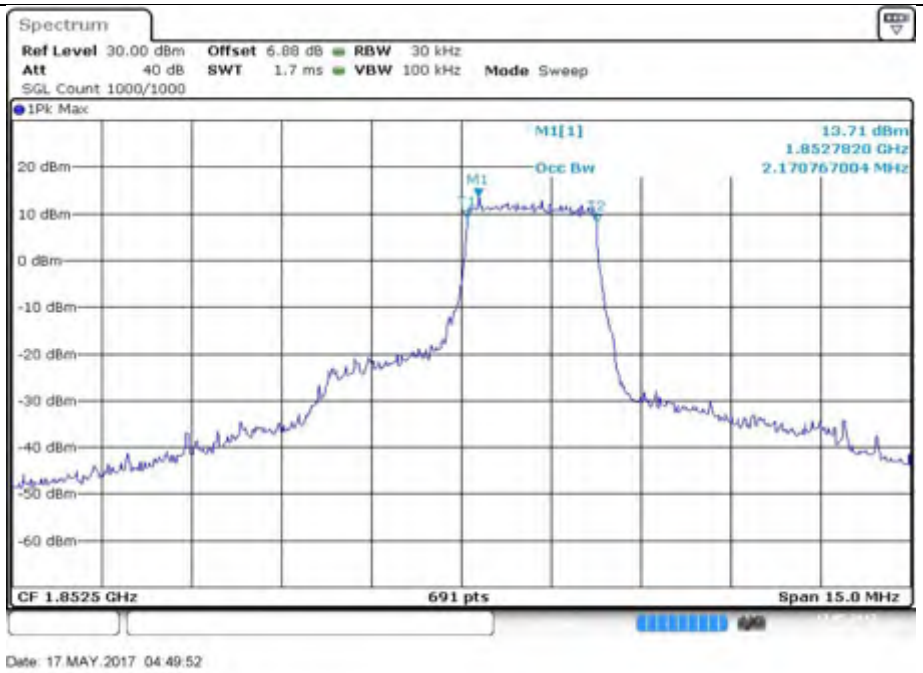

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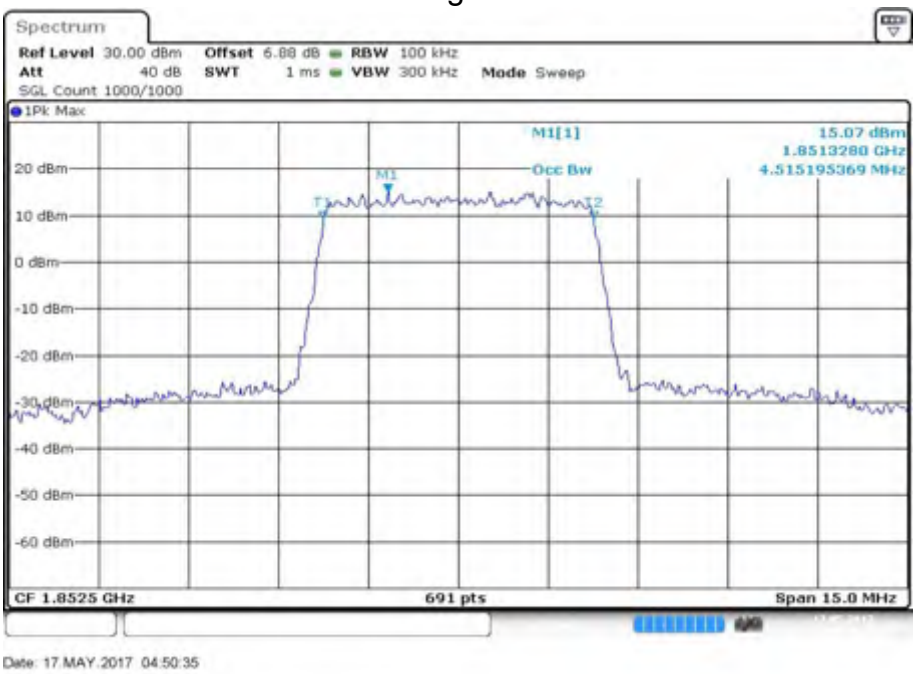

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Fig.4

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Date: 17.MAY.2017 04:51:18

Fig.5

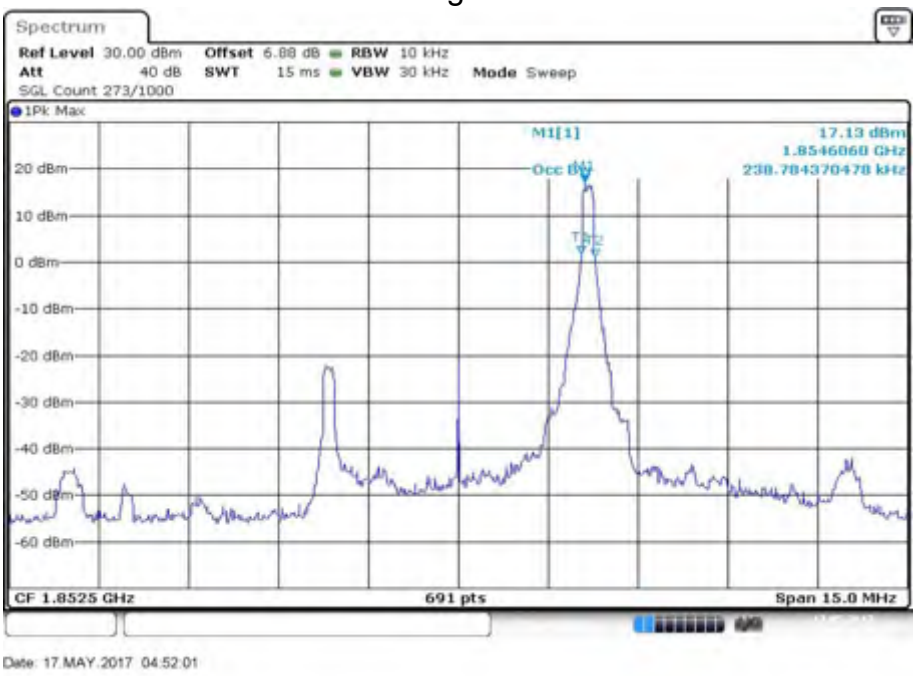

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Fig.6

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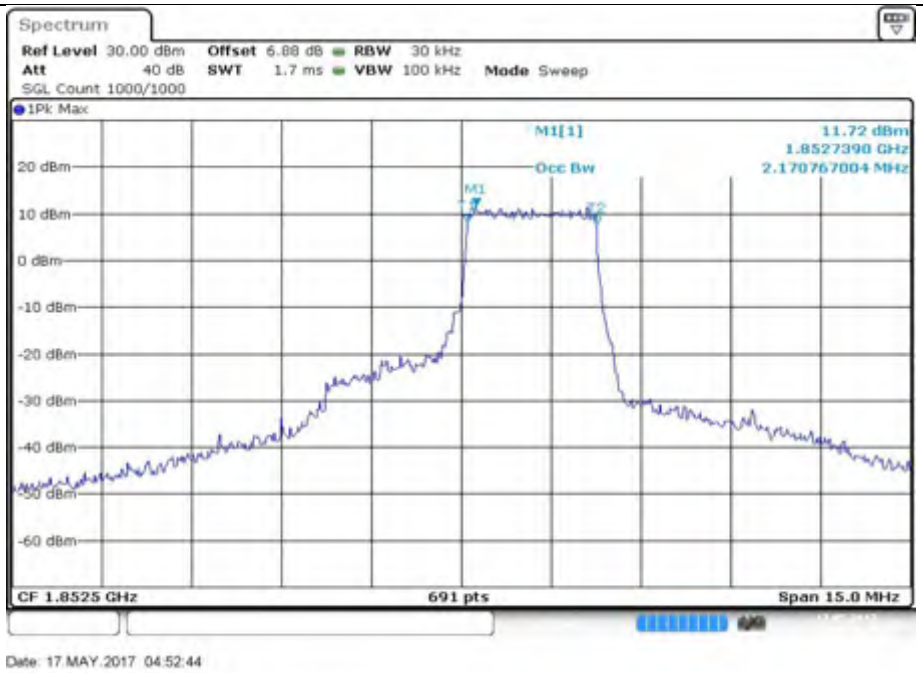

Fig.7

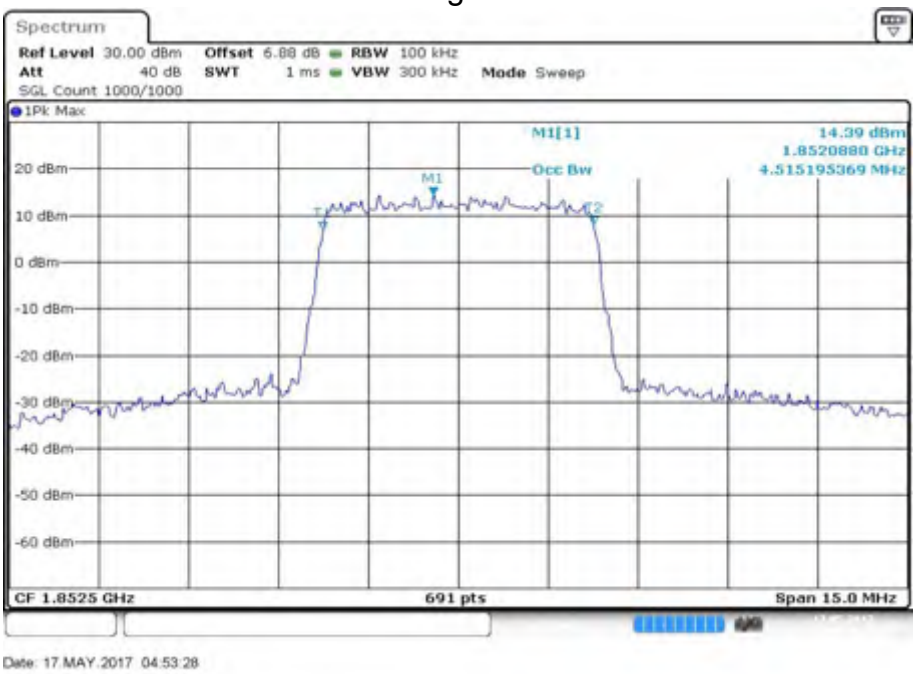

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1880	18900	5	1	0	0.239	Fig.1	0.239	Fig.5
				1	24	0.239	Fig.2	0.239	Fig.6
				12	6	2.171	Fig.3	2.171	Fig.7
				25	0	4.515	Fig.4	4.493	Fig.8

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Fig.1

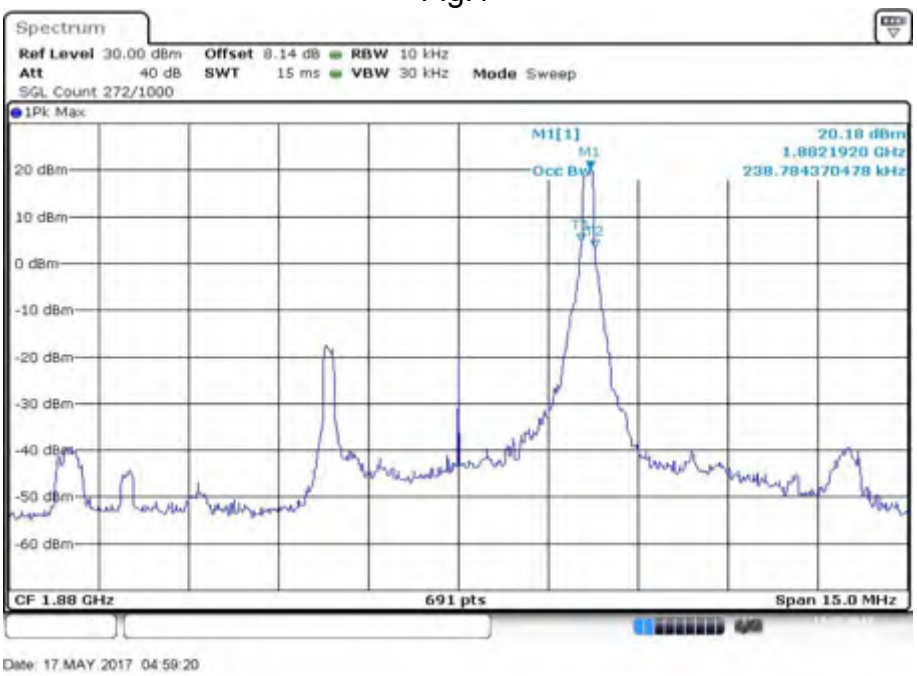

Fig.2

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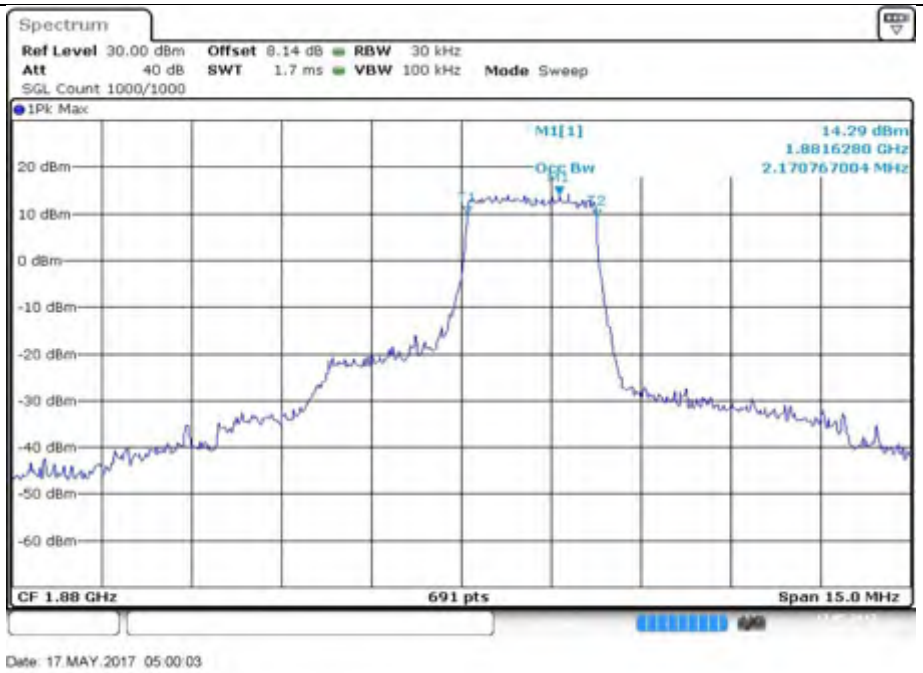

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Fig.3

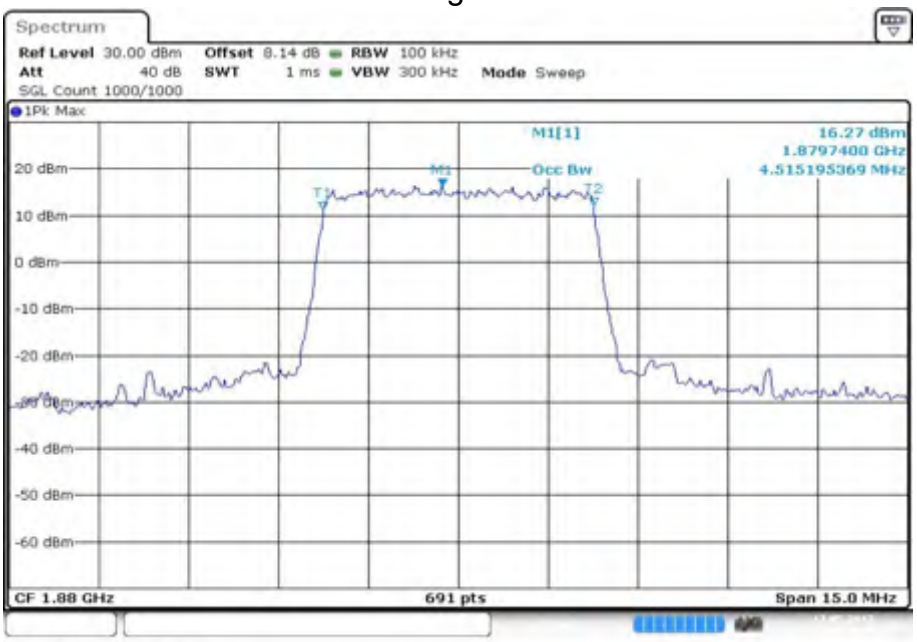

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Fig.4

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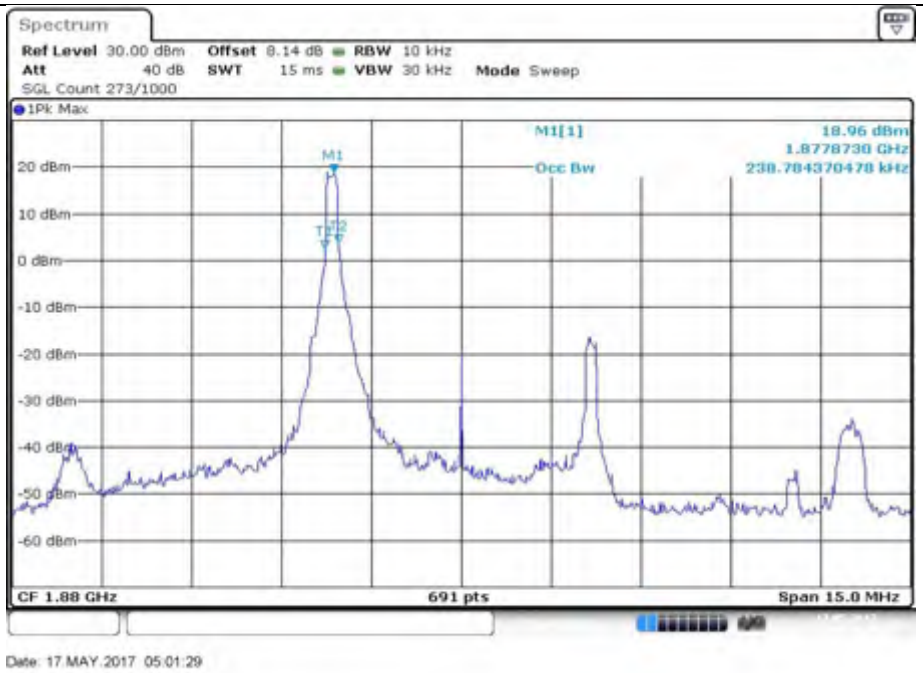

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Fig.5

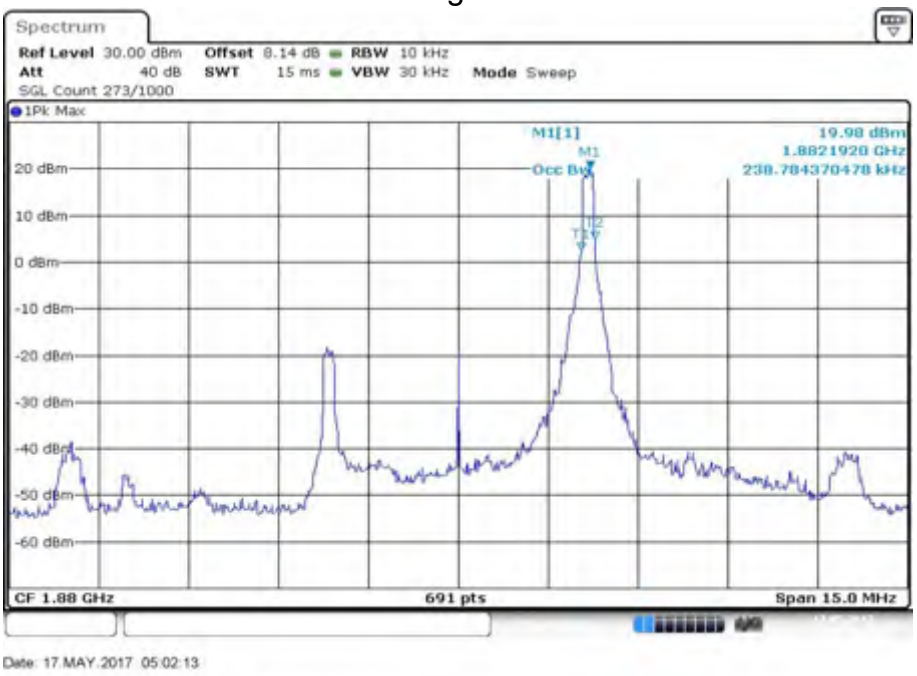

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Fig.6

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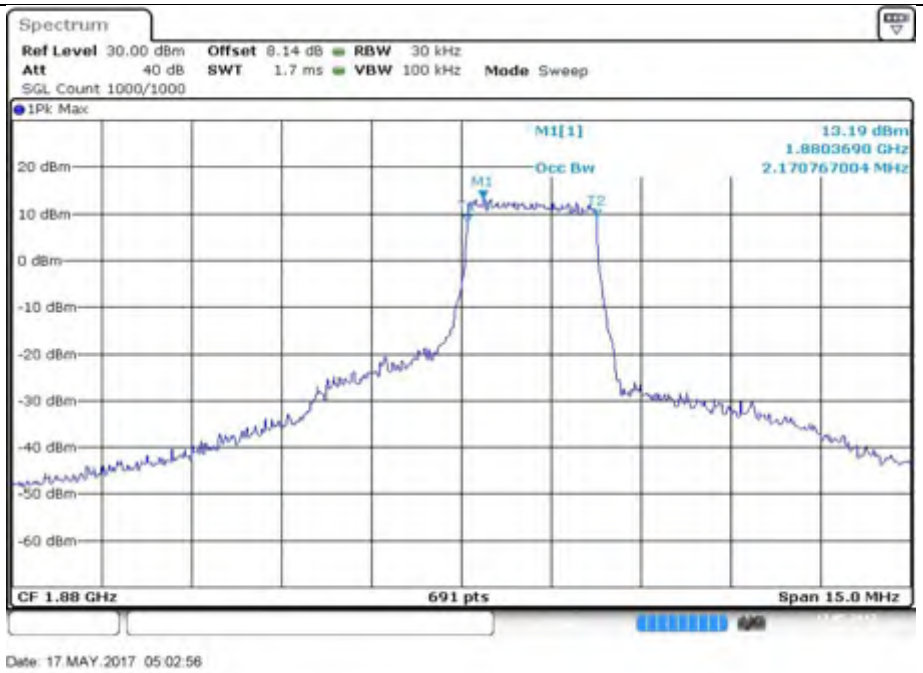

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Fig.7

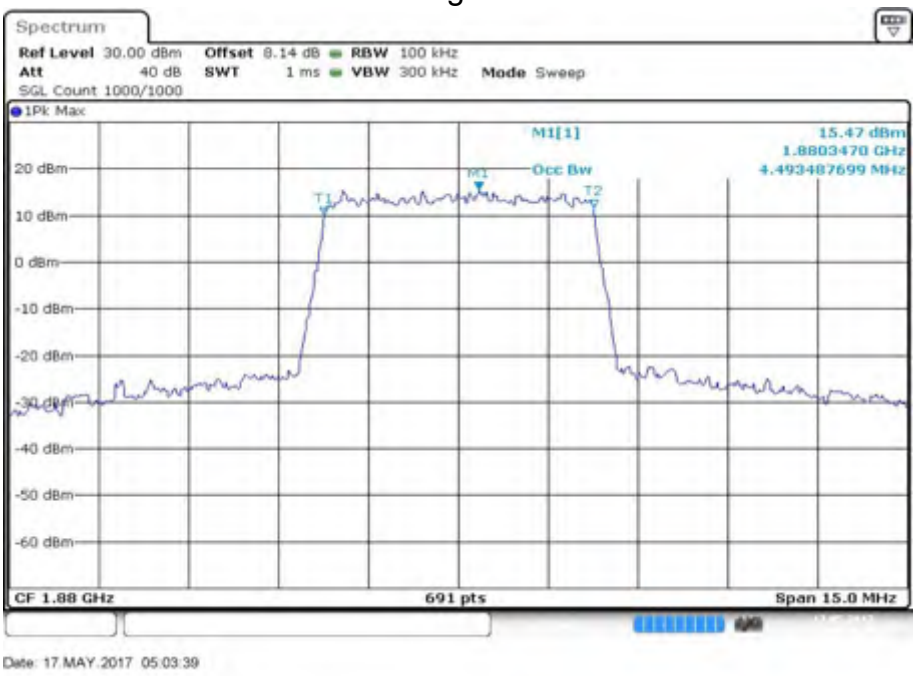

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Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1907.5	19175	5	1	0	0.239	Fig.1	0.239	Fig.5
				1	24	0.239	Fig.2	0.239	Fig.6
				12	6	2.192	Fig.3	2.149	Fig.7
				25	0	4.493	Fig.4	4.515	Fig.8

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Fig.1

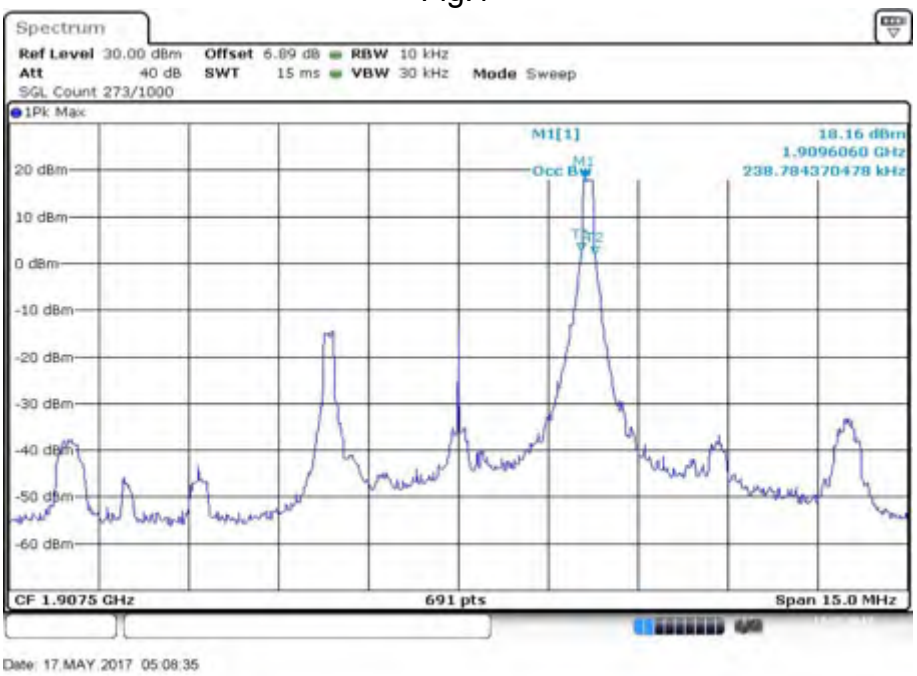

Fig.2

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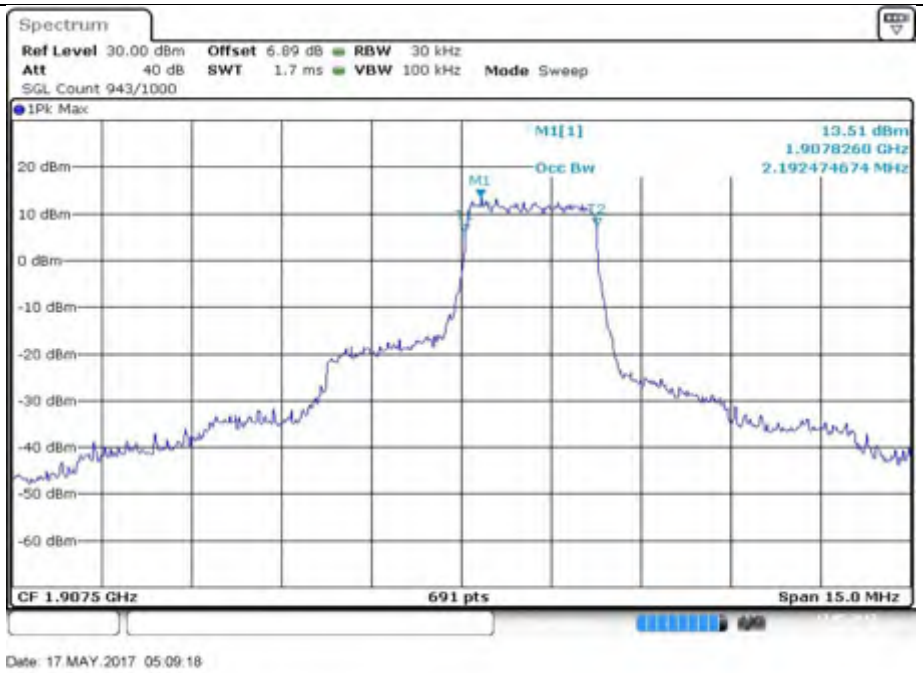

Fig.3

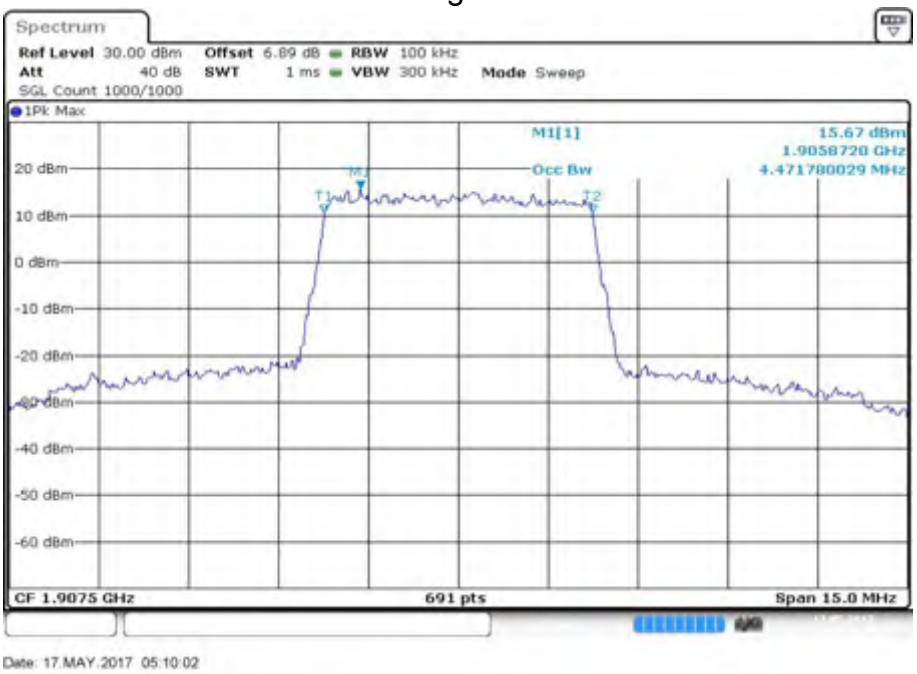

Fig.4

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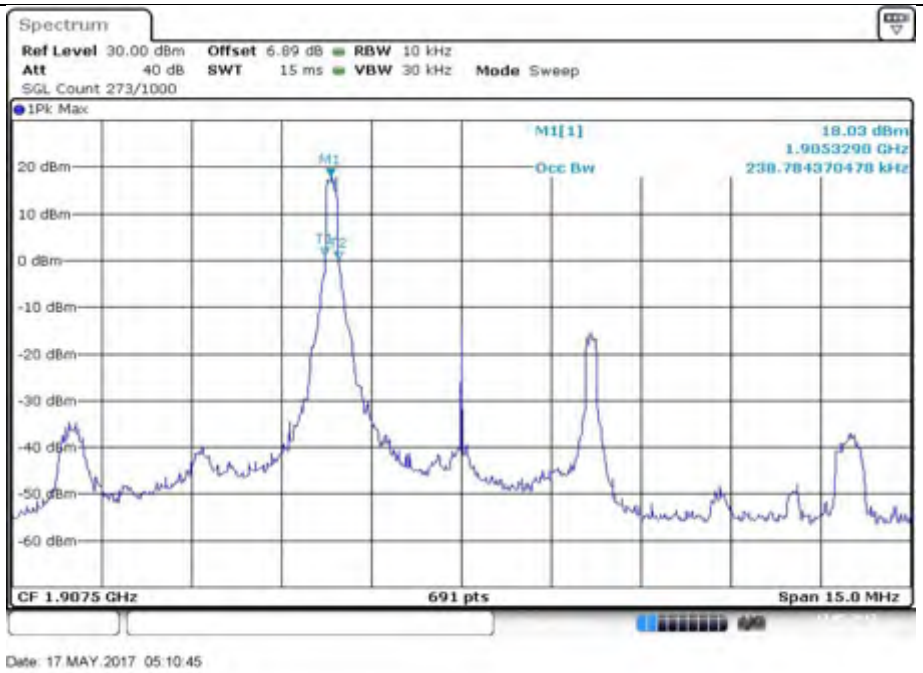

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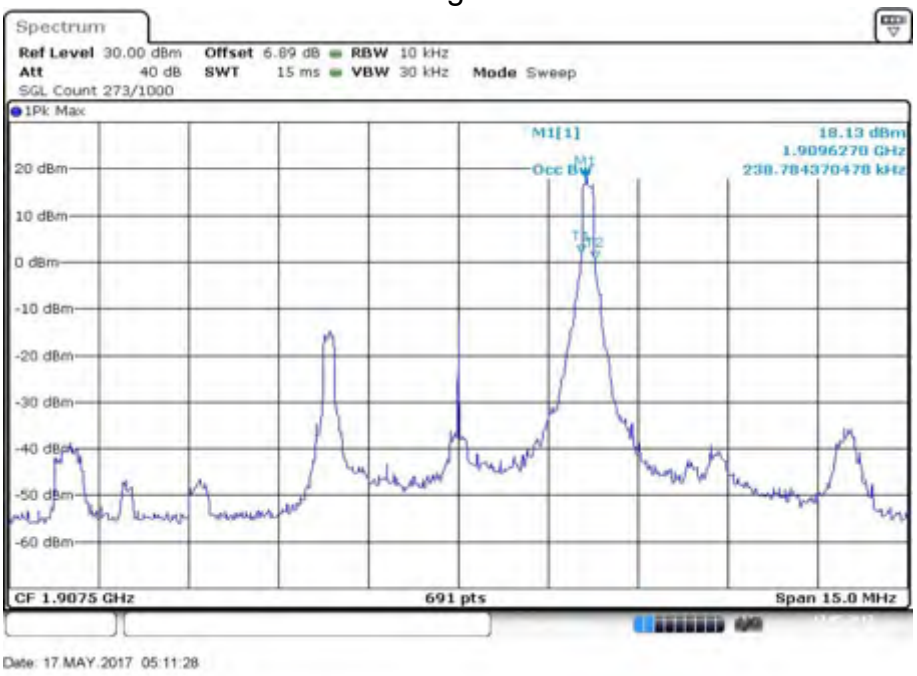

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Fig.6

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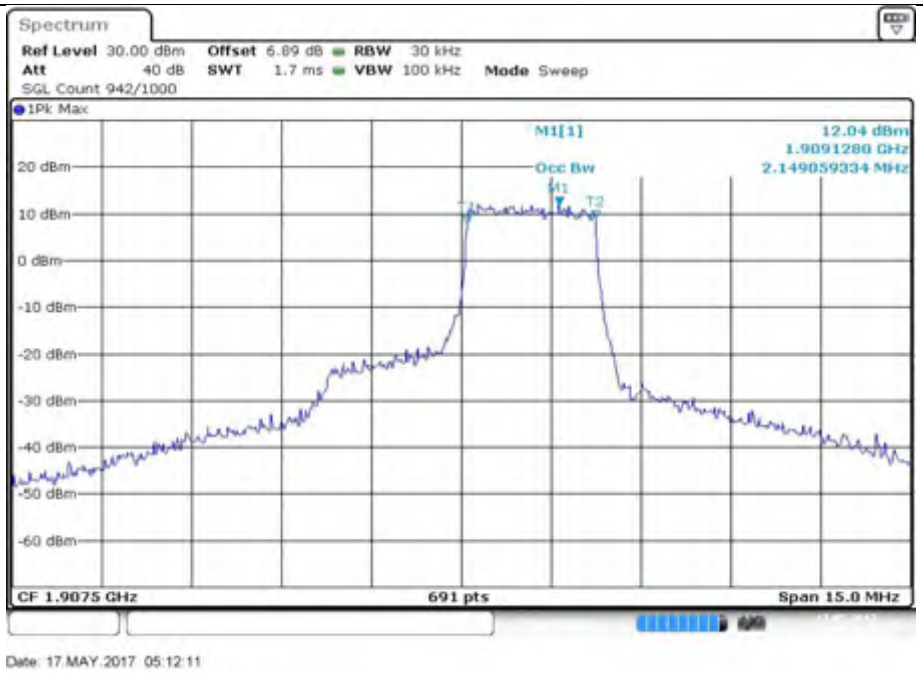

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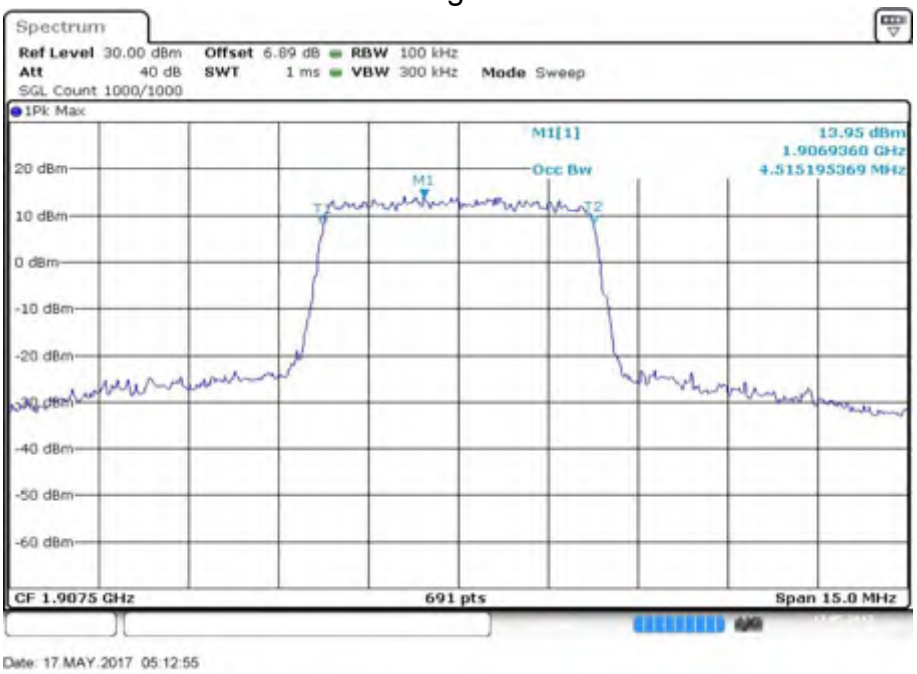

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1855	18650	10	1	0	0.217	Fig.1	0.217	Fig.5
				1	49	0.217	Fig.2	0.217	Fig.6
				24	12	4.385	Fig.3	4.342	Fig.7
				50	0	9.030	Fig.4	9.030	Fig.8

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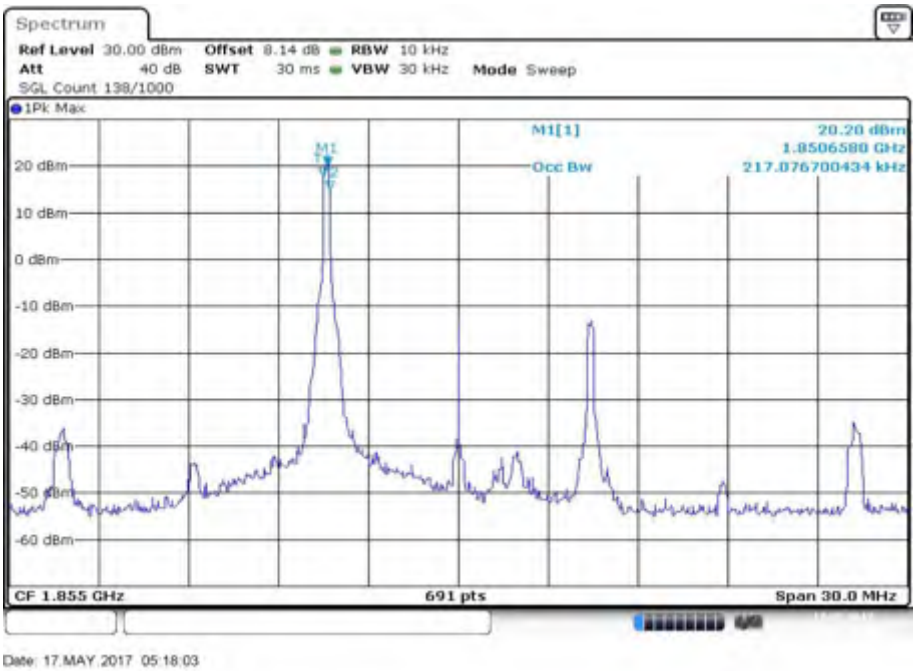

Fig.1

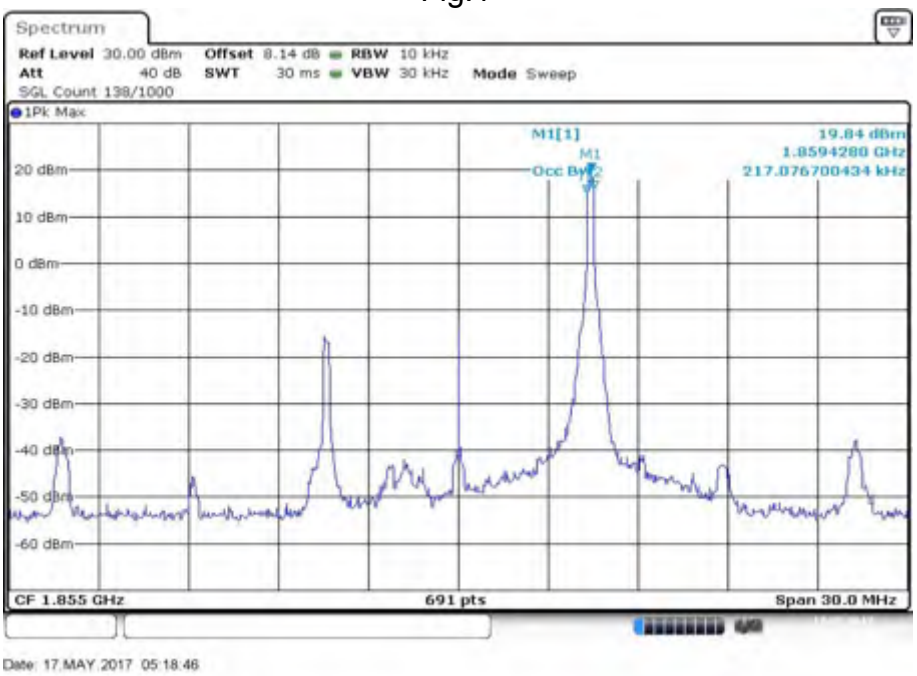

Fig.2

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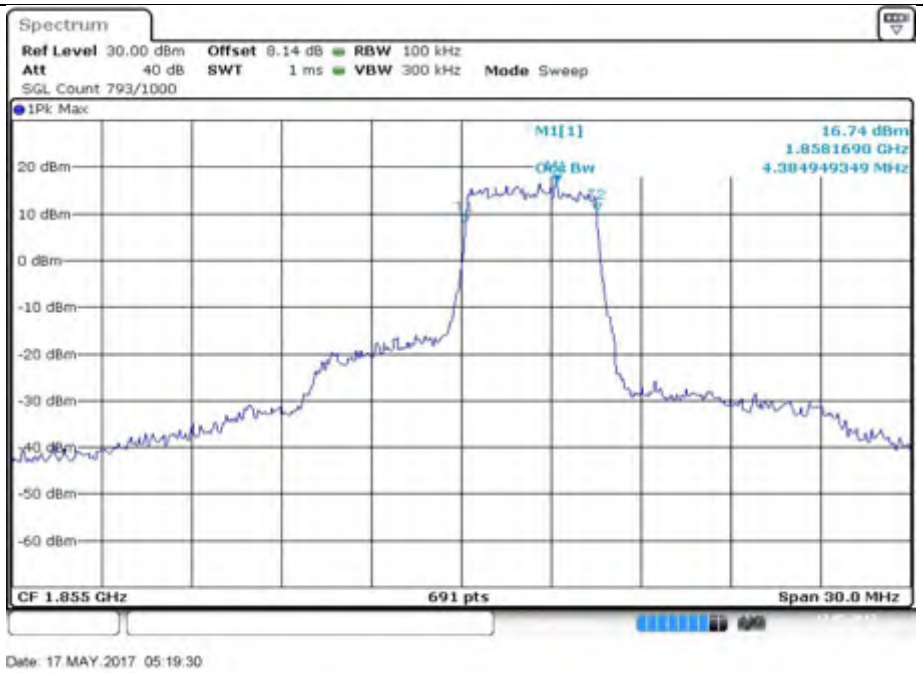

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Fig.3

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Fig.4

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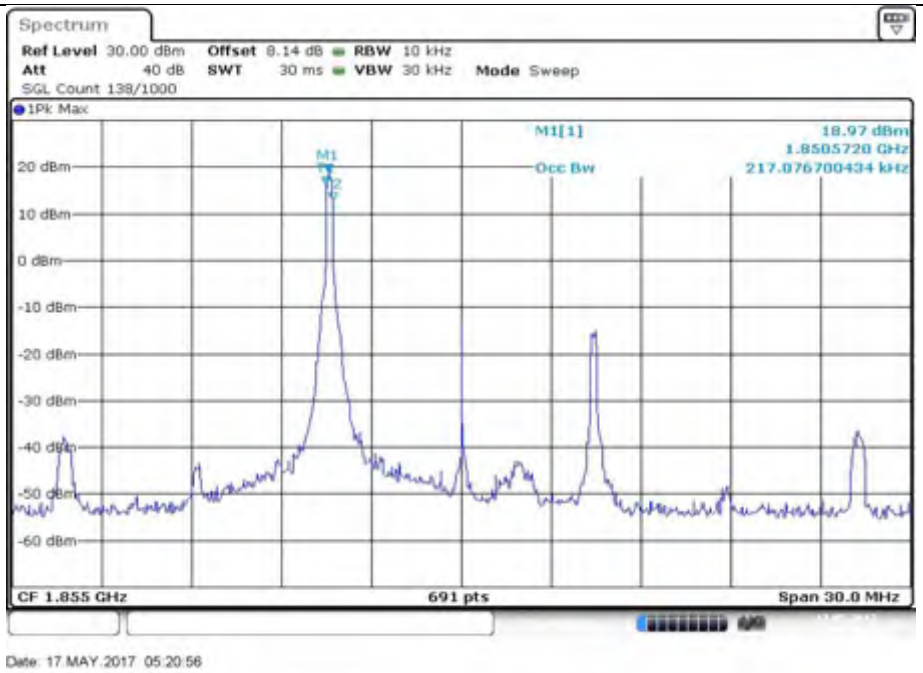

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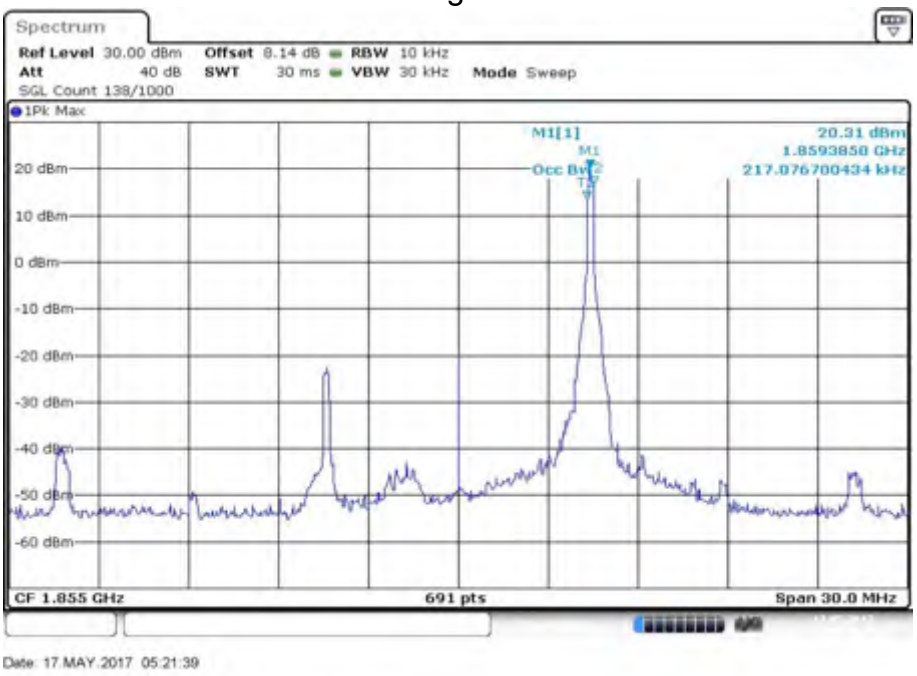

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Fig.6

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Fig.7

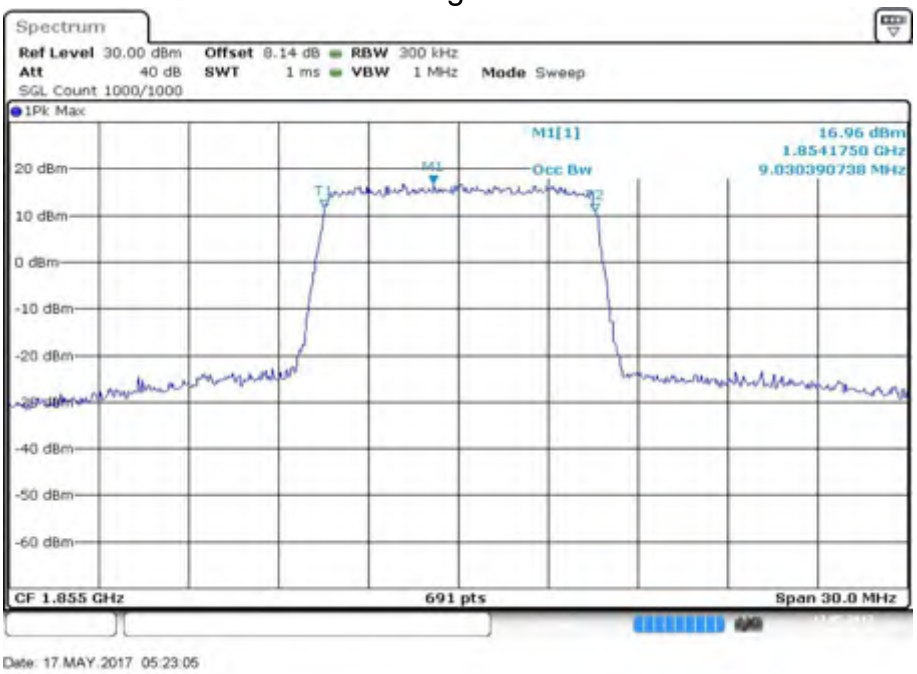

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1880	18900	10	1	0	0.217	Fig.1	0.260	Fig.5
				1	49	0.217	Fig.2	0.217	Fig.6
				24	12	4.385	Fig.3	4.342	Fig.7
				50	0	8.987	Fig.4	9.030	Fig.8

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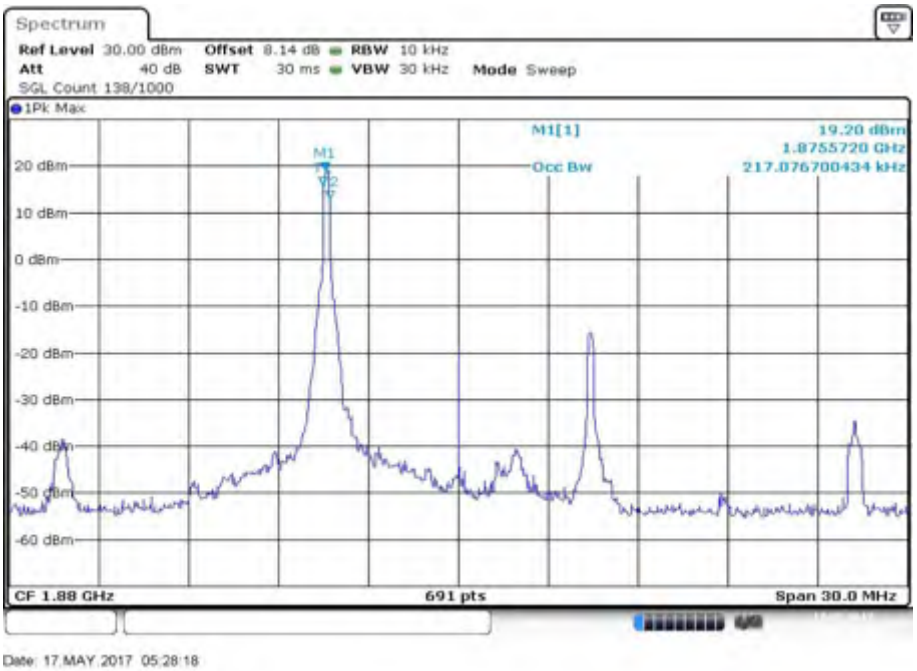

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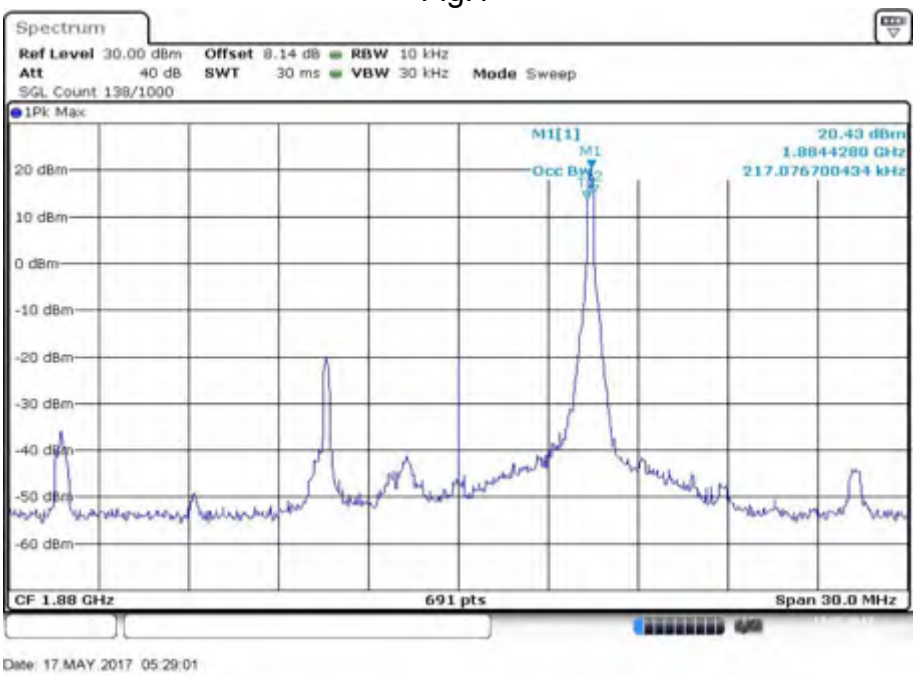

Fig.2

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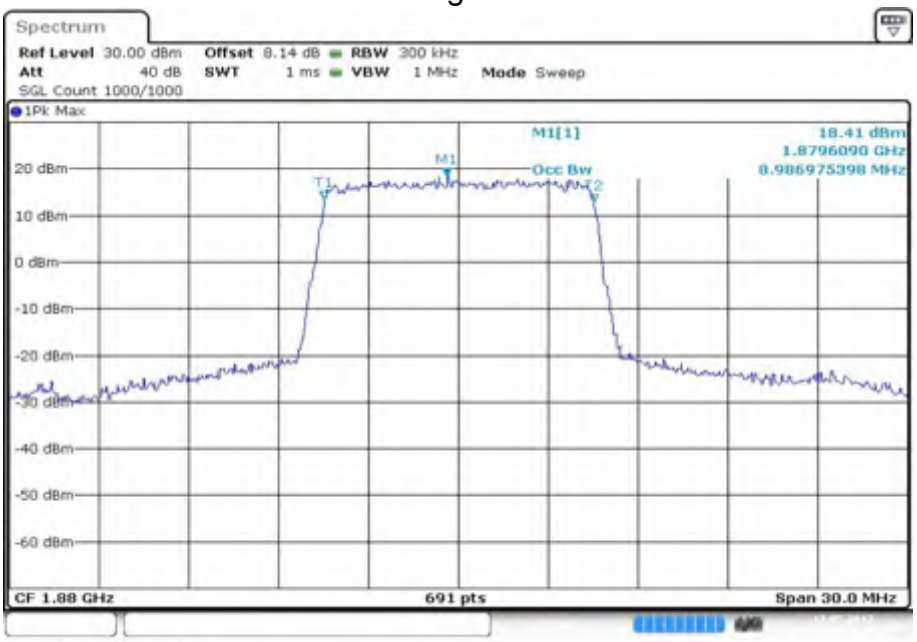

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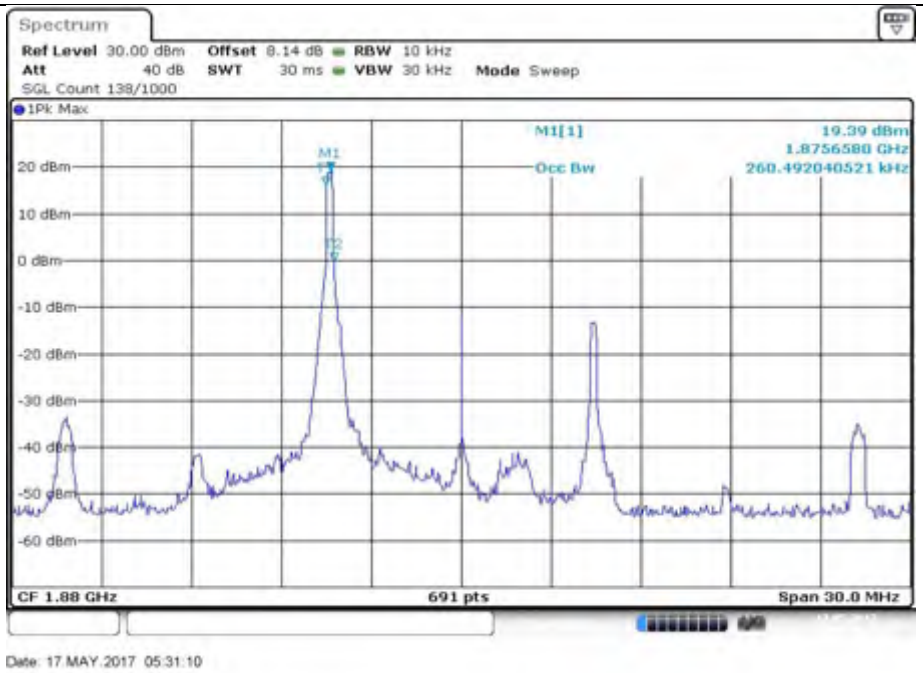

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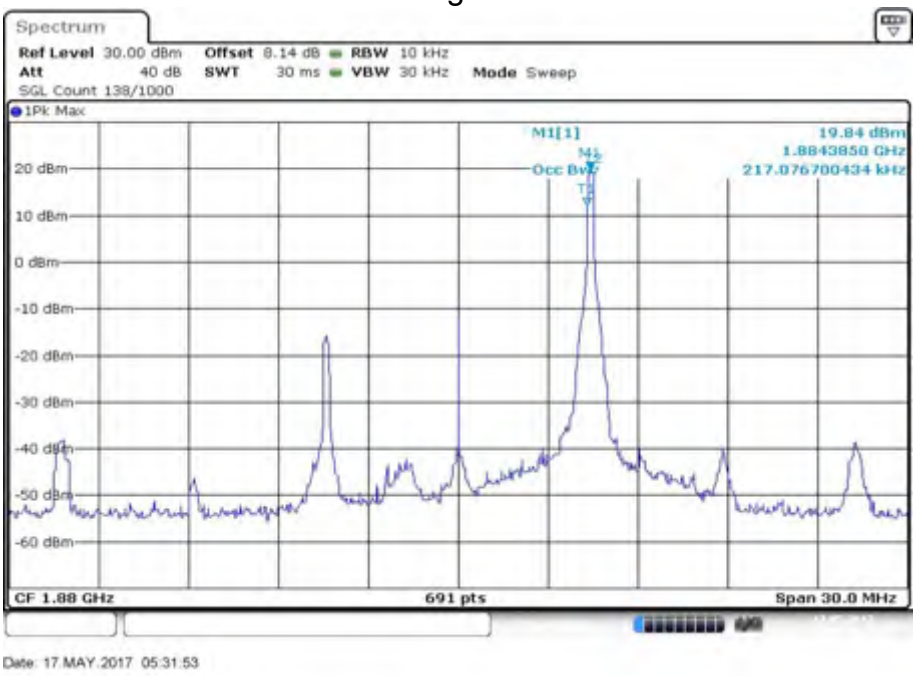

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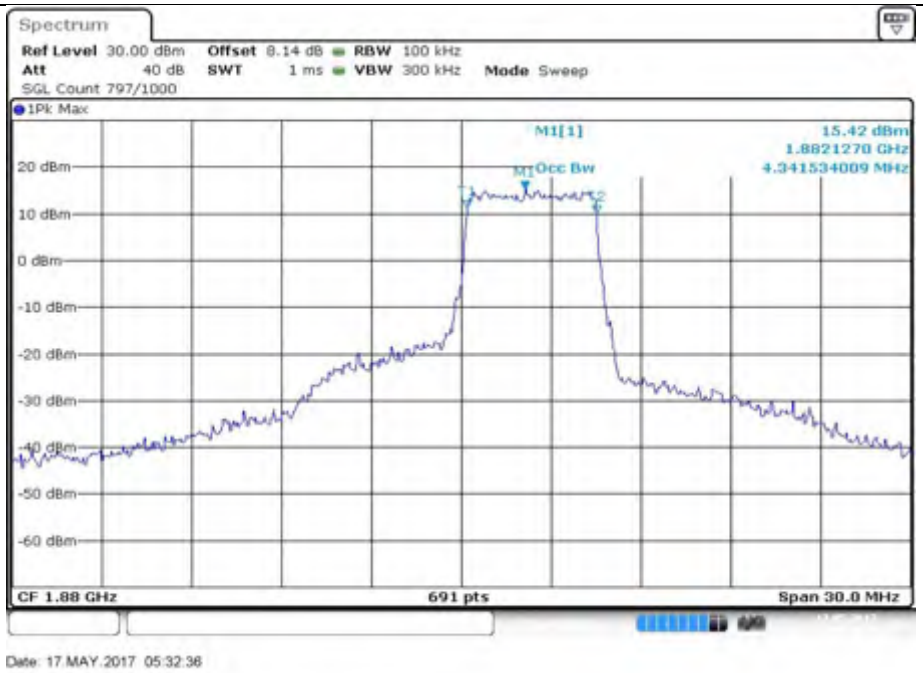

Fig.7

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1905	19150	10	1	0	0.217	Fig.1	0.217	Fig.5
				1	49	0.304	Fig.2	0.260	Fig.6
				24	12	4.385	Fig.3	4.342	Fig.7
				50	0	9.030	Fig.4	9.030	Fig.8

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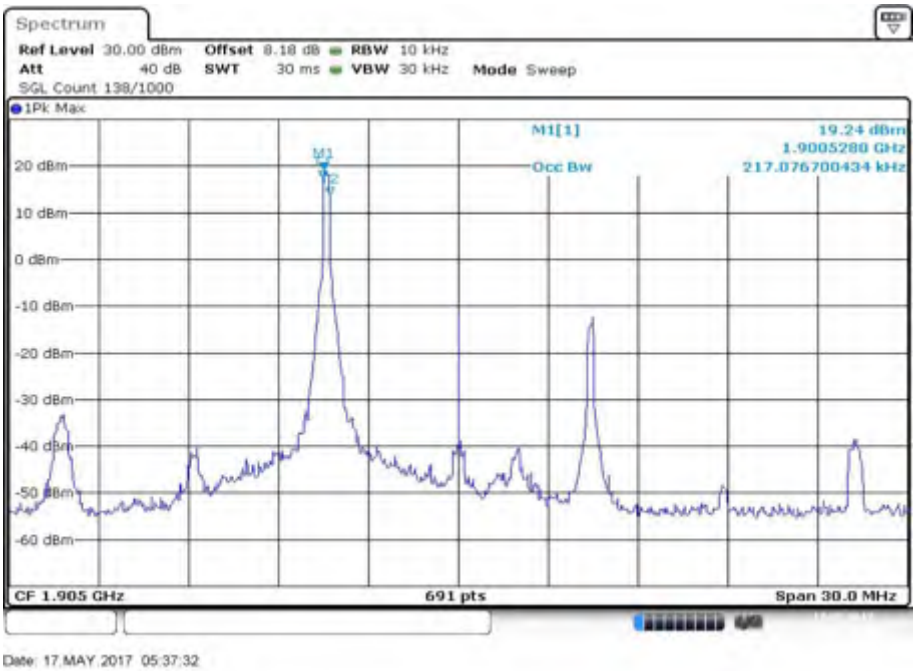

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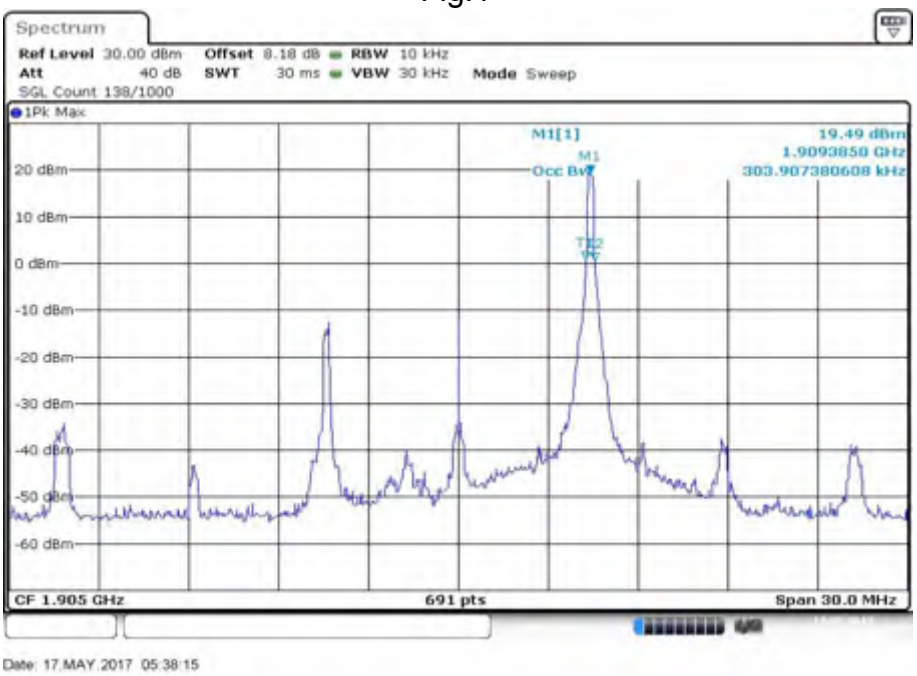

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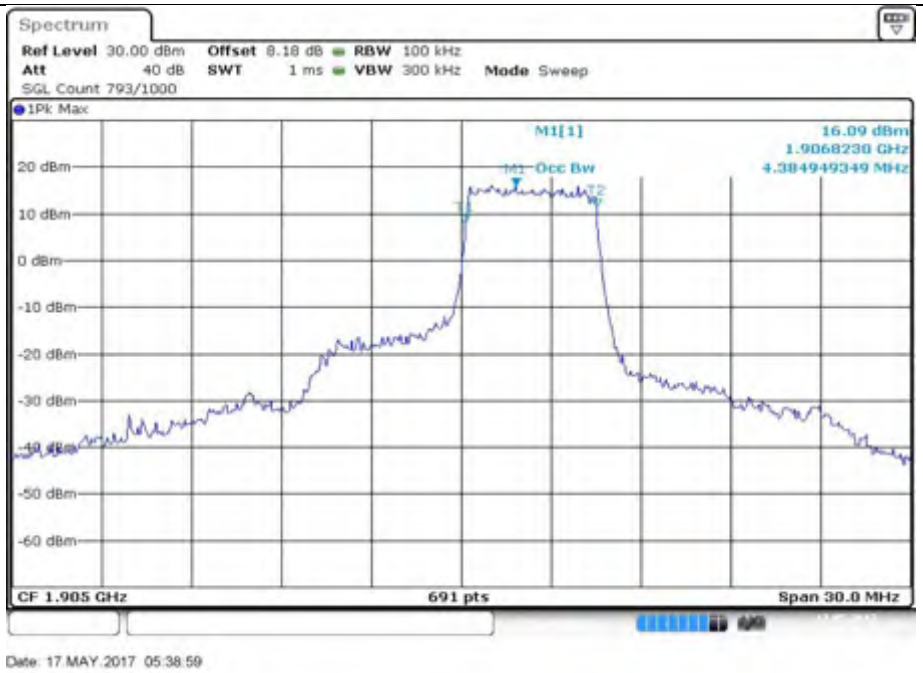

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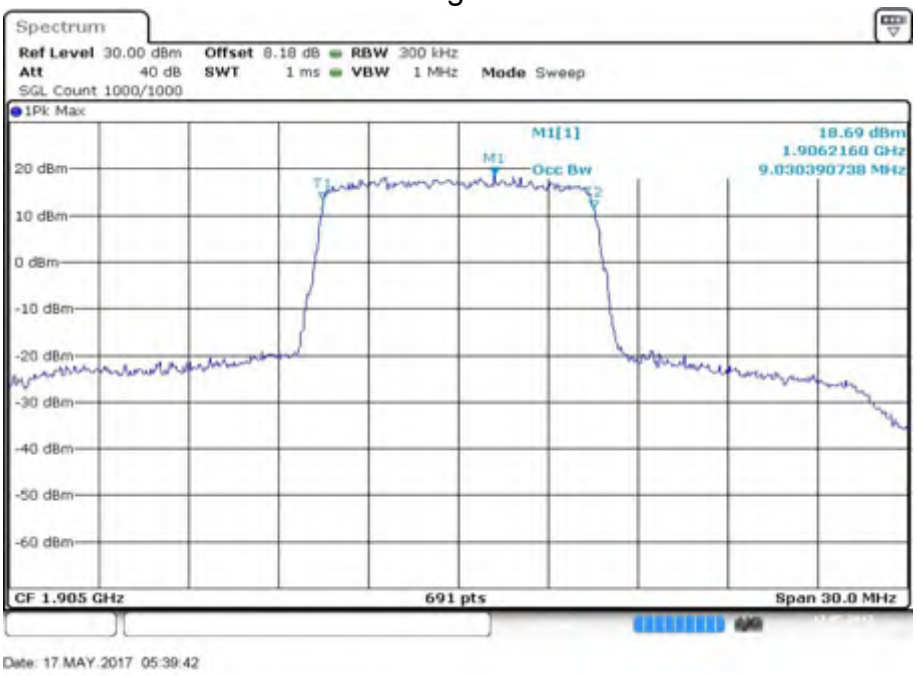

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Fig.4

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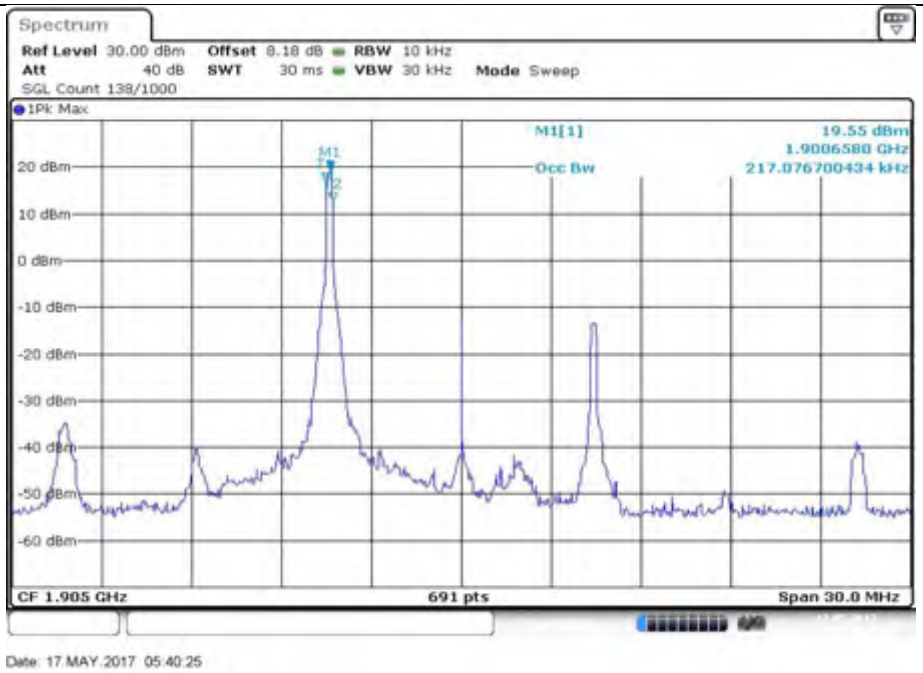

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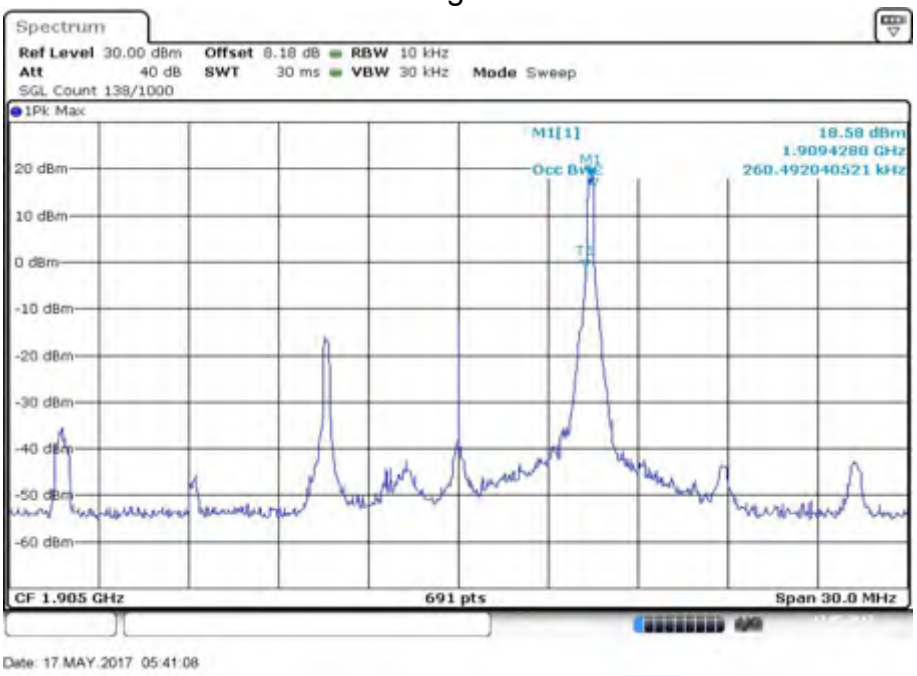

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Fig.6

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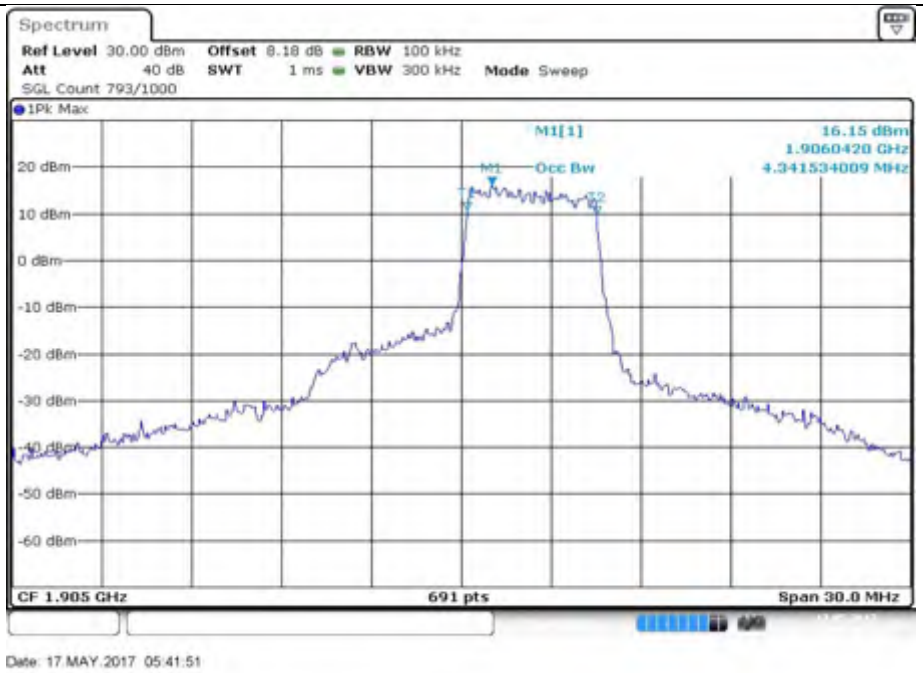

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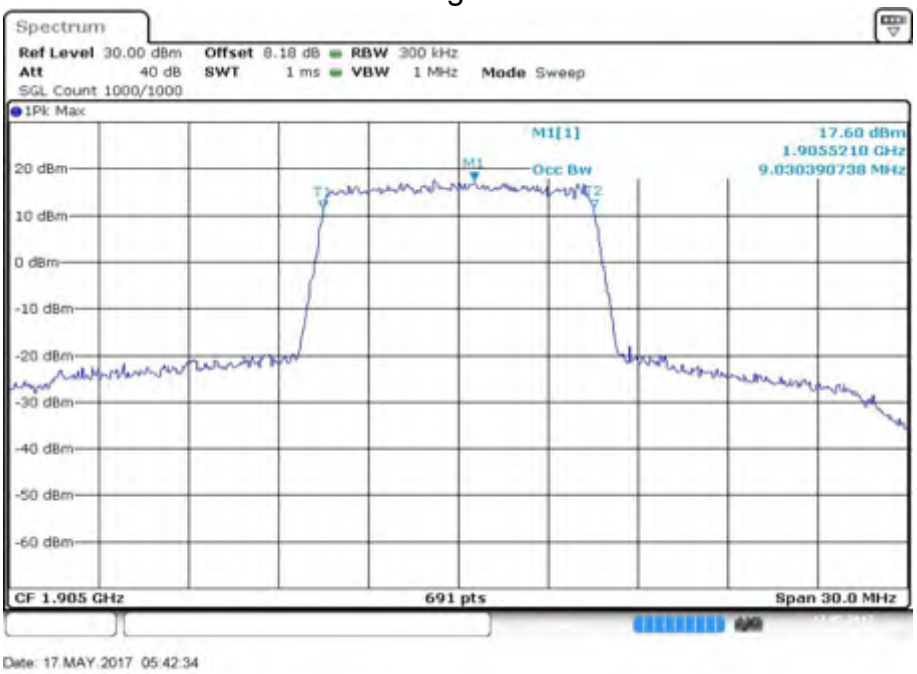

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1857.5	18675	15	1	0	0.260	Fig.1	0.260	Fig.5
				1	74	0.260	Fig.2	0.260	Fig.6
				40	18	7.229	Fig.3	7.229	Fig.7
				75	0	13.480	Fig.4	13.480	Fig.8

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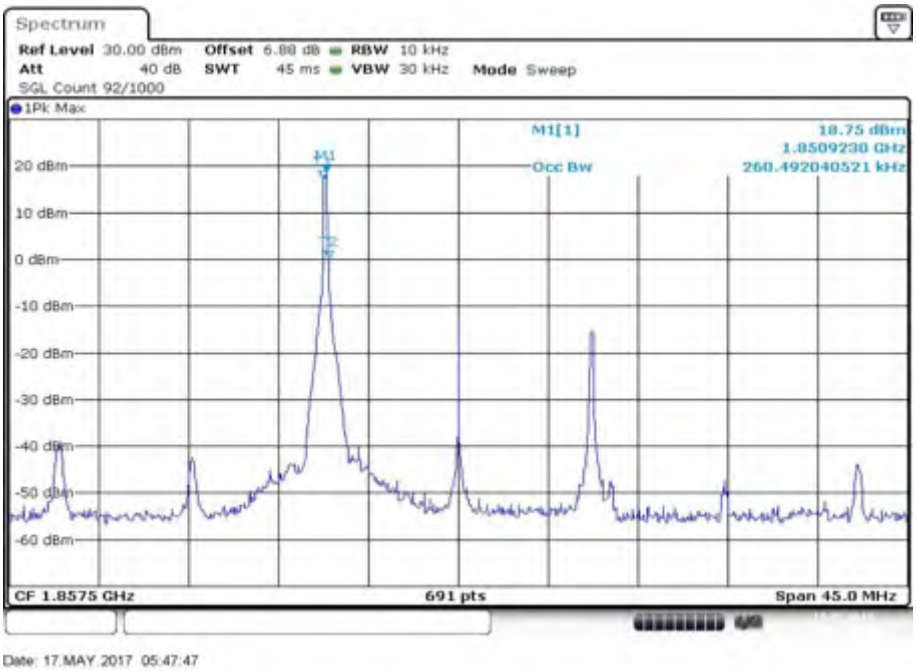

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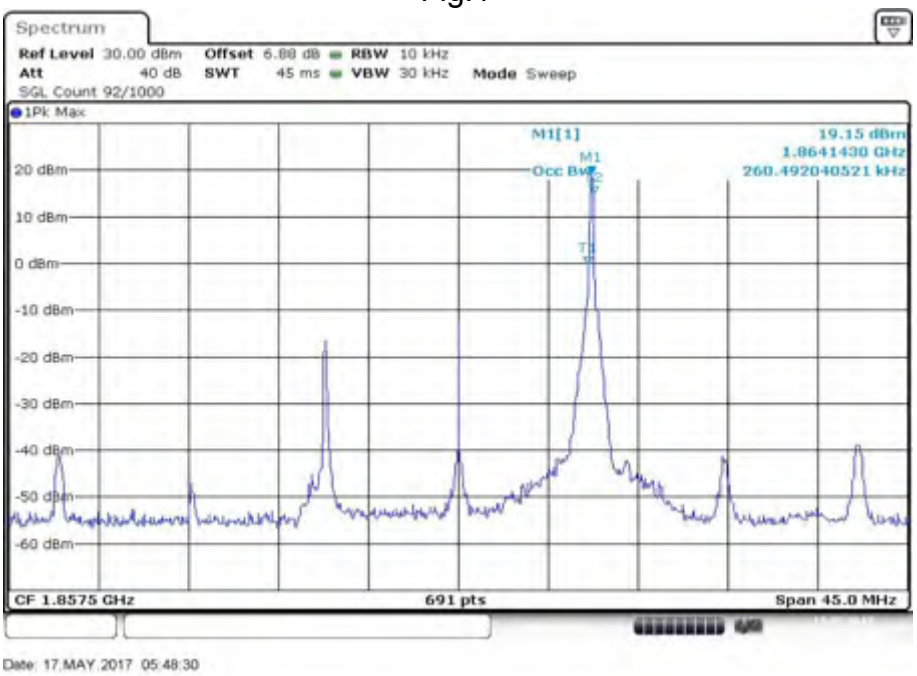

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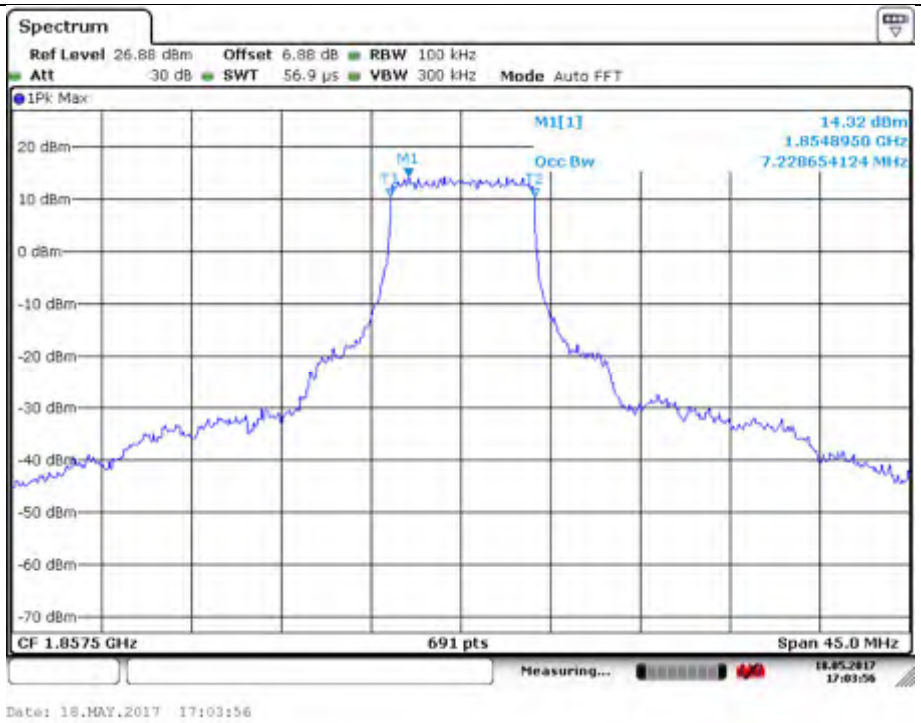

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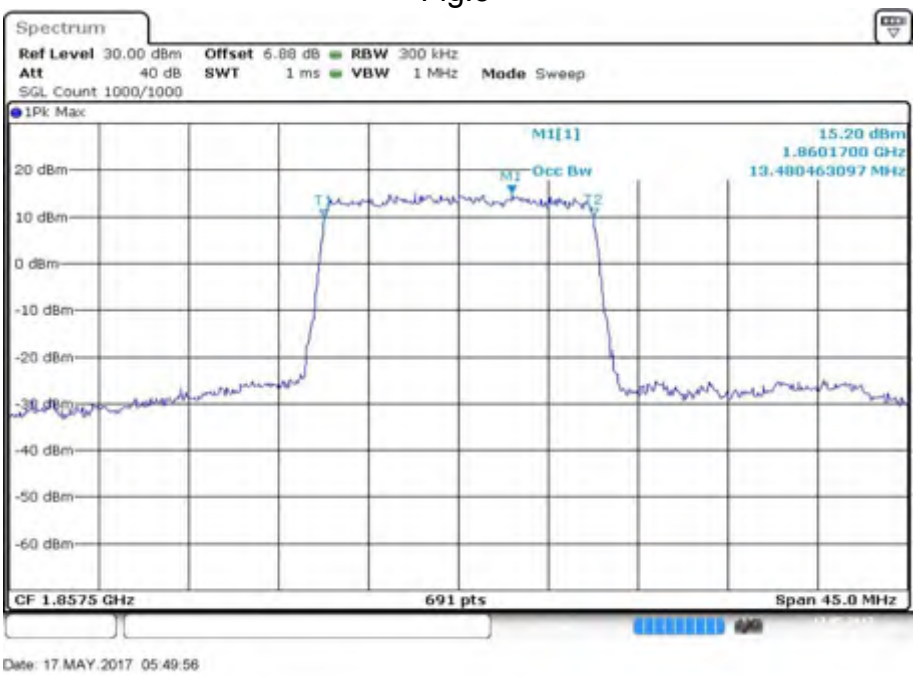

Fig.4

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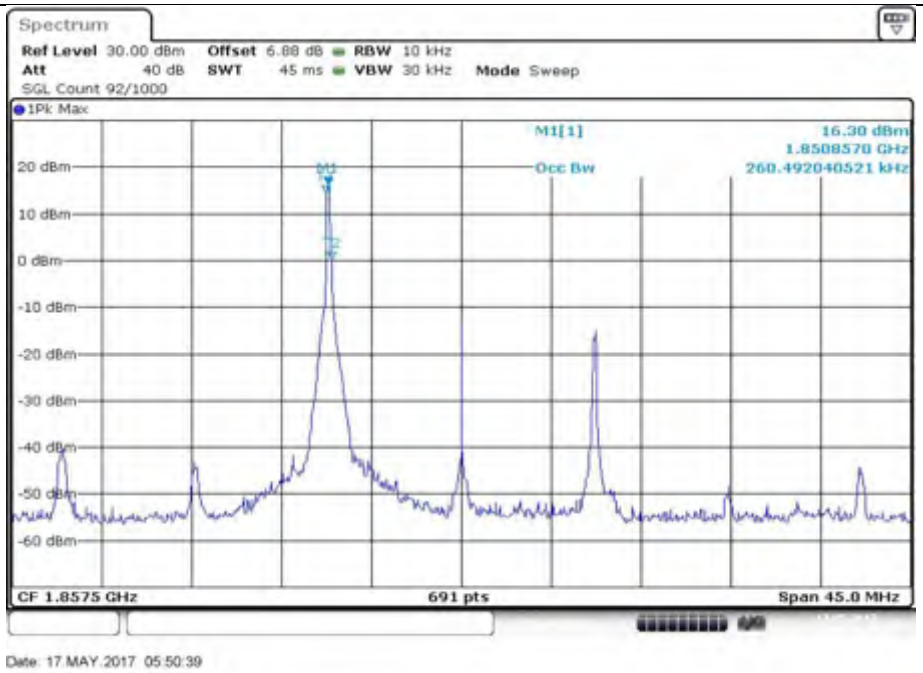

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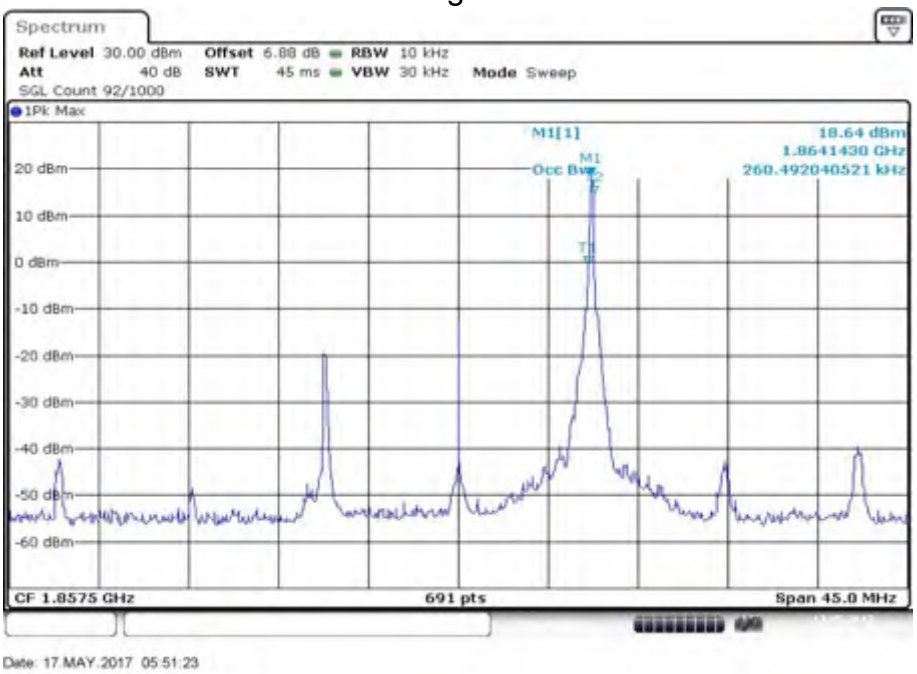

Fig.6

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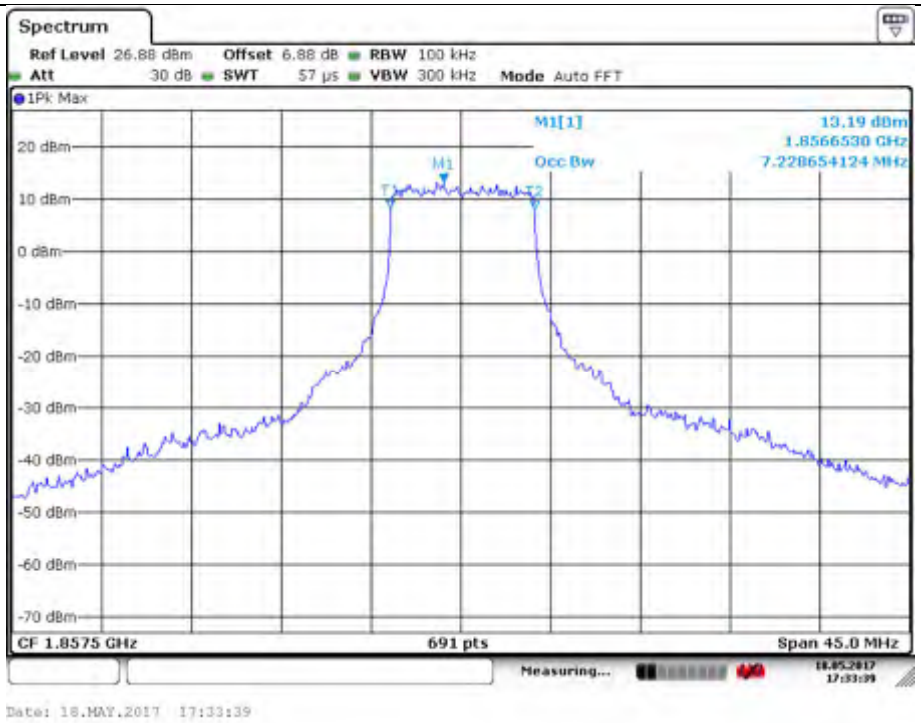

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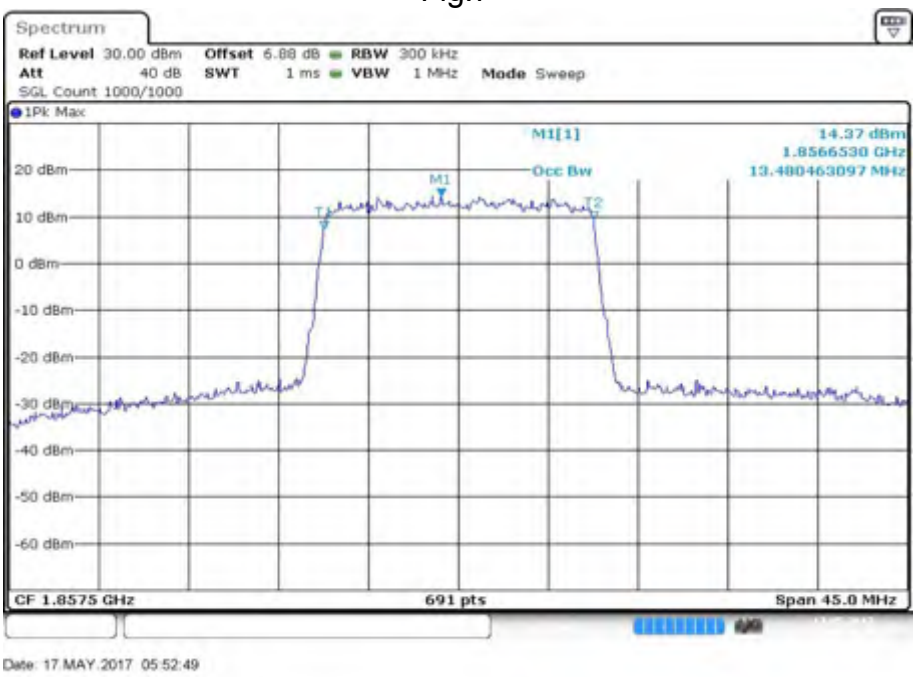

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1880	18900	15	1	0	0.260	Fig.1	0.260	Fig.5
				1	74	0.260	Fig.2	0.260	Fig.6
				40	18	7.229	Fig.3	7.229	Fig.7

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				75	0	13.350	Fig.4	13.415	Fig.8

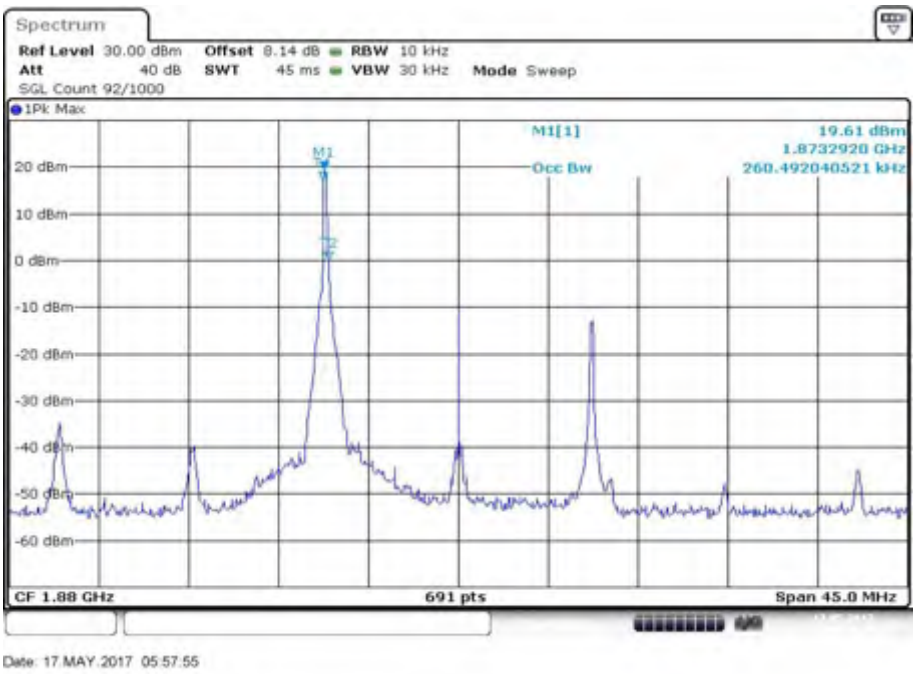

Fig.1

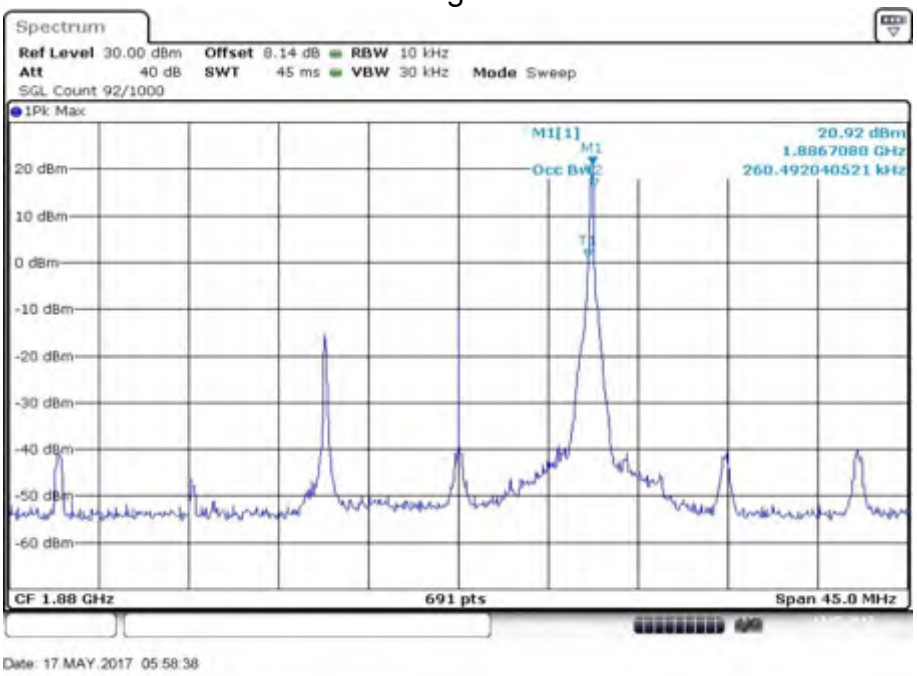

Fig.2

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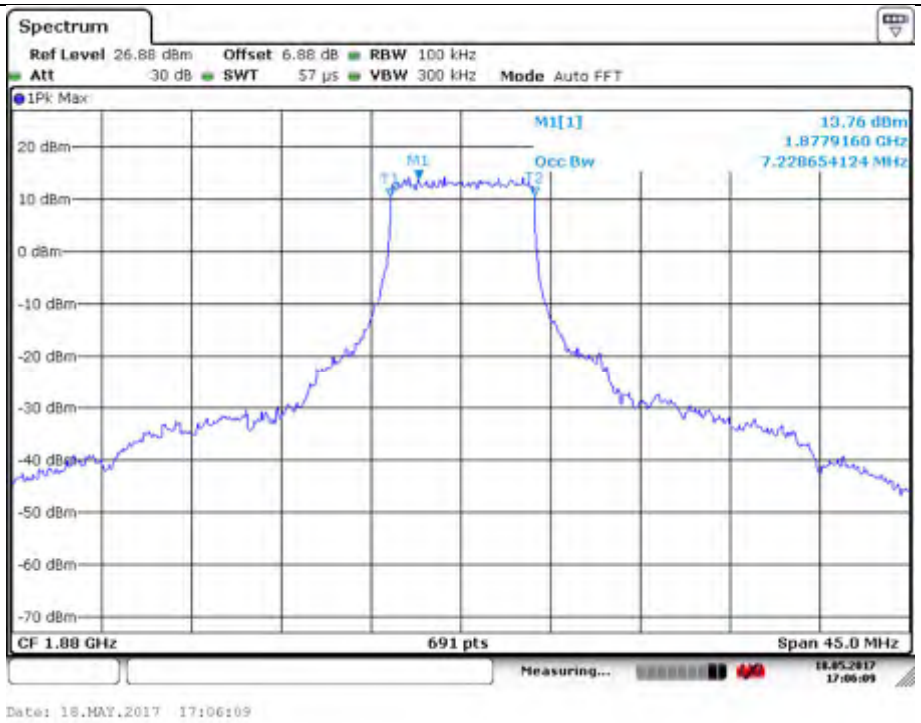

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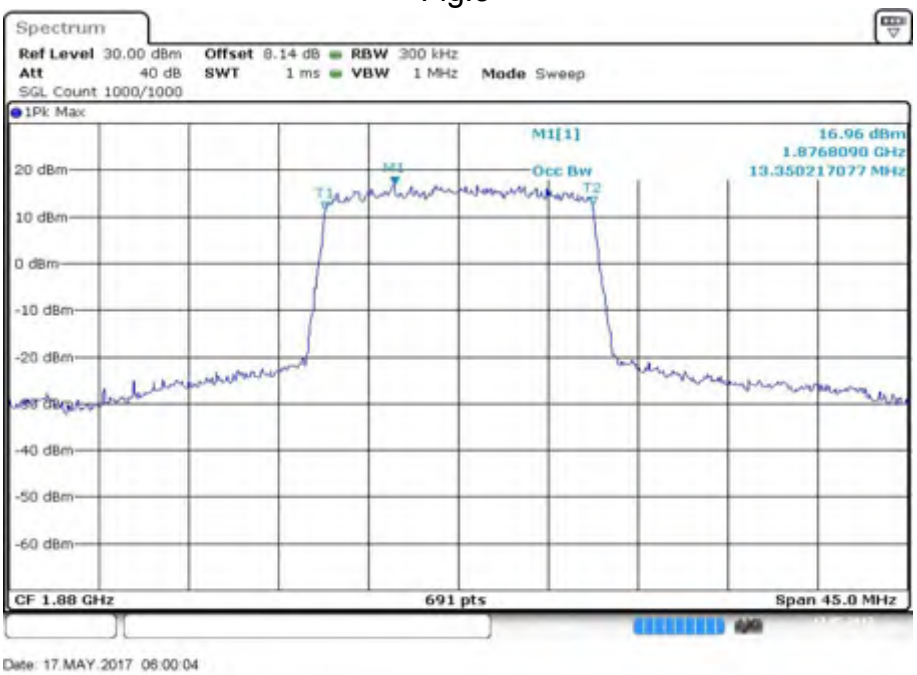

Fig.4

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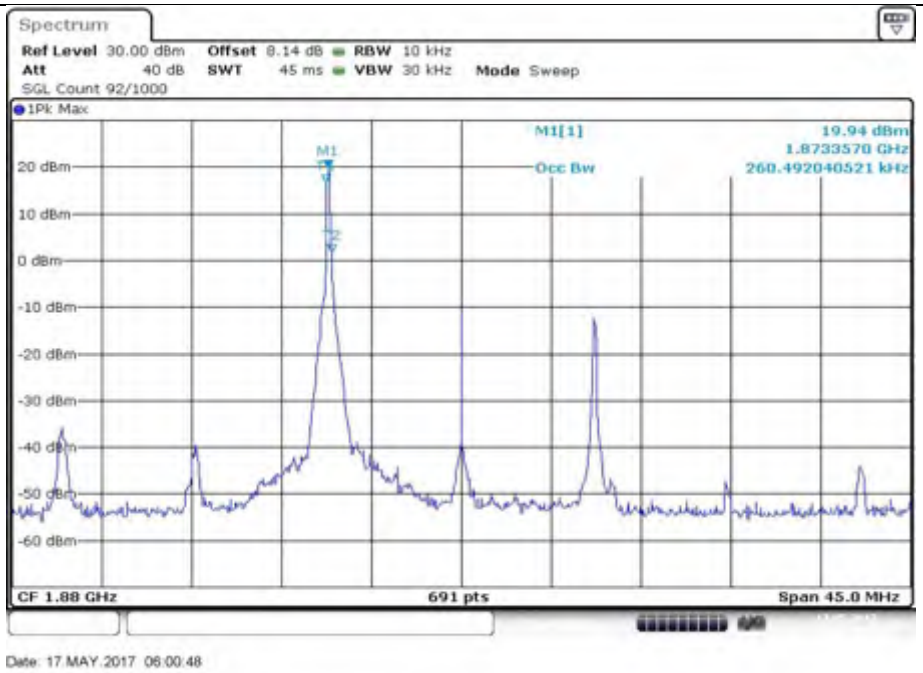

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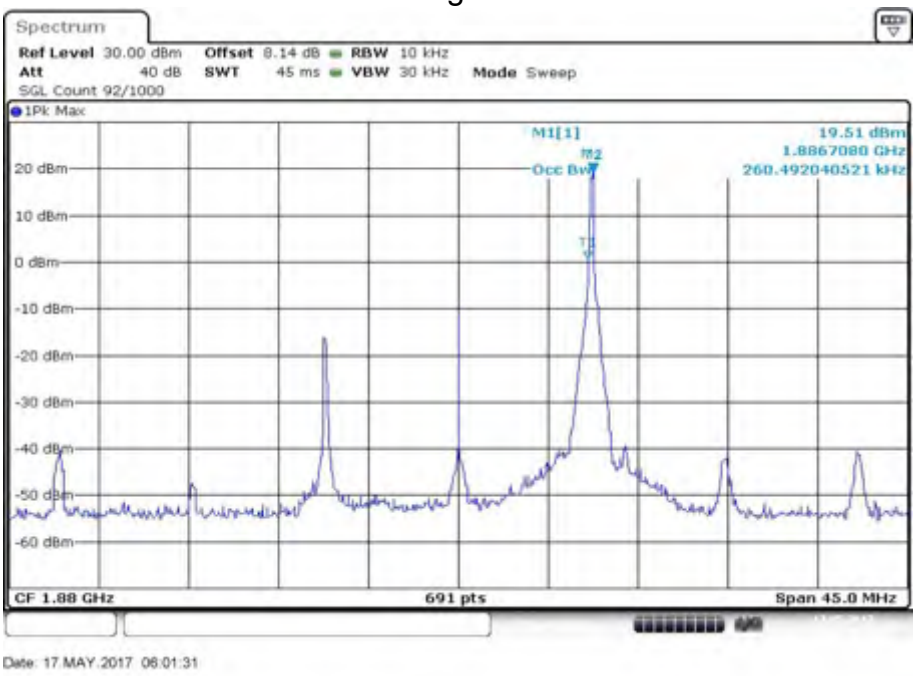

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Fig.6

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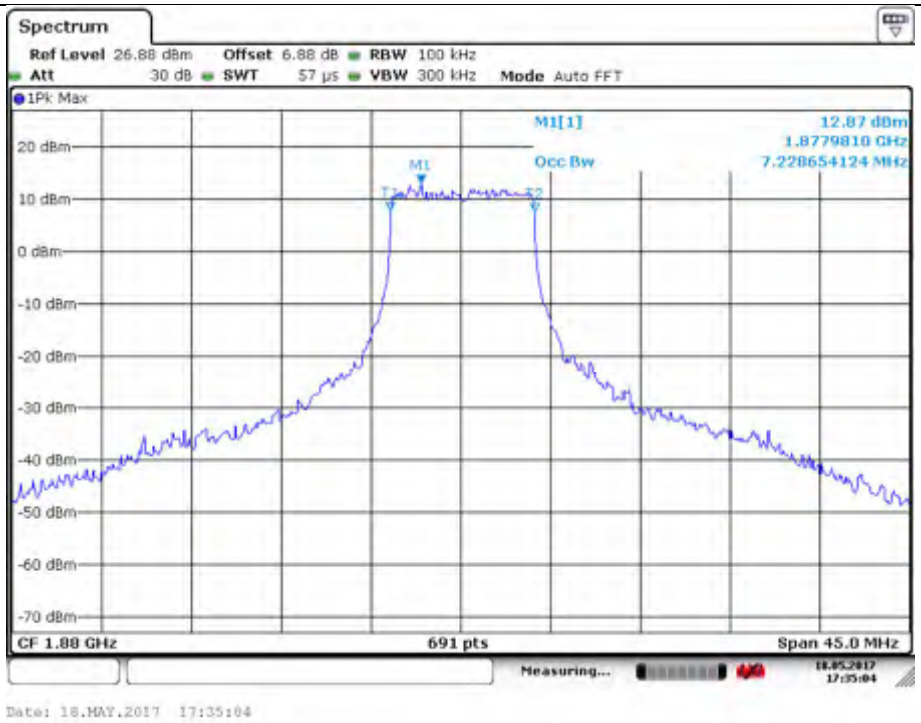

Fig.7

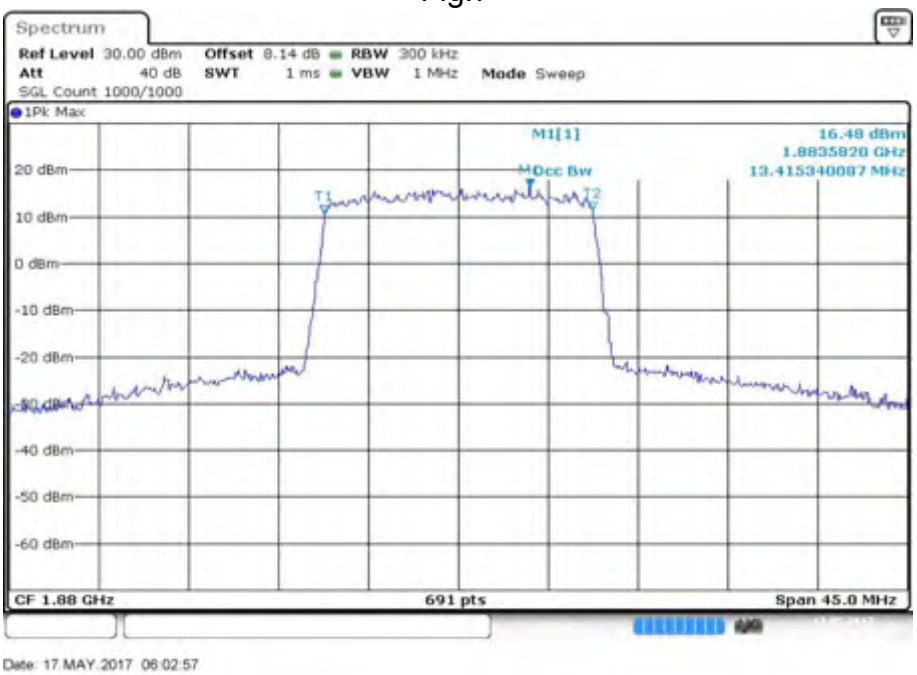

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1902.5	19125	15	1	0	0.260	Fig.1	0.260	Fig.5
				1	74	0.260	Fig.2	0.260	Fig.6
				40	18	7.229	Fig.3	7.229	Fig.7

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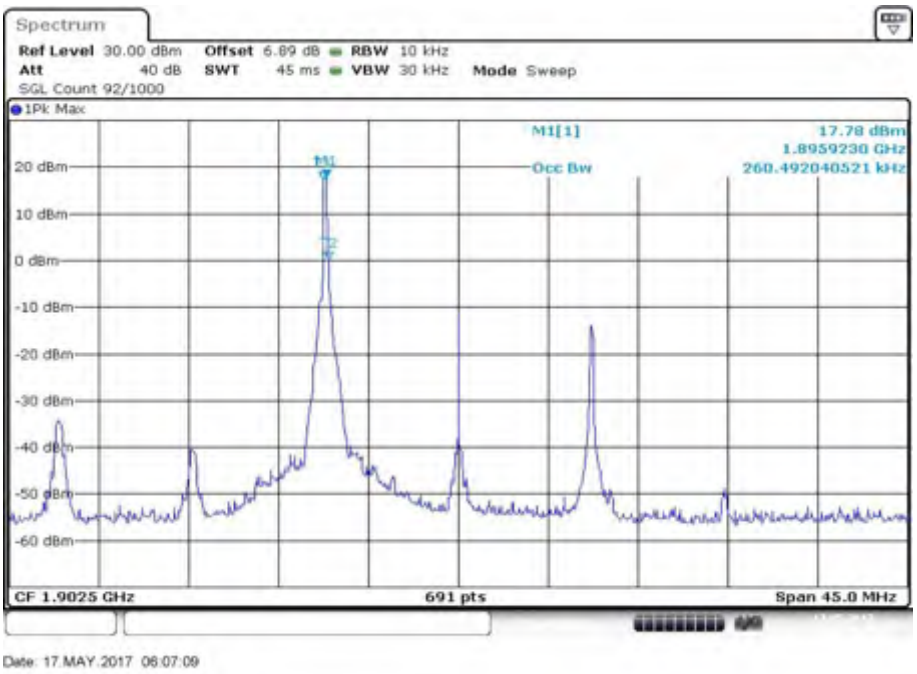
				75	0	13.415	Fig.4	13.480	Fig.8



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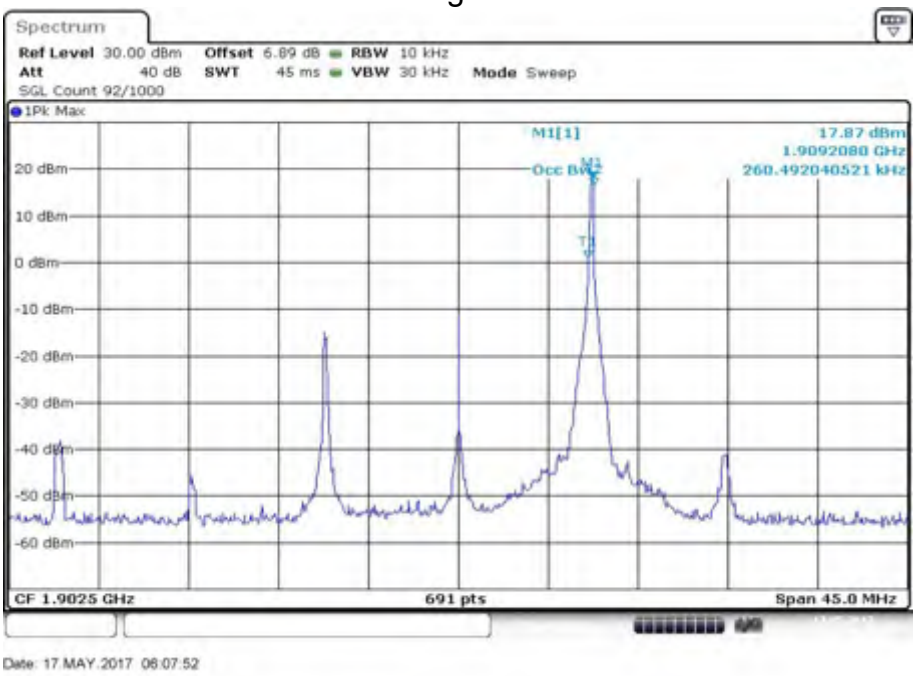

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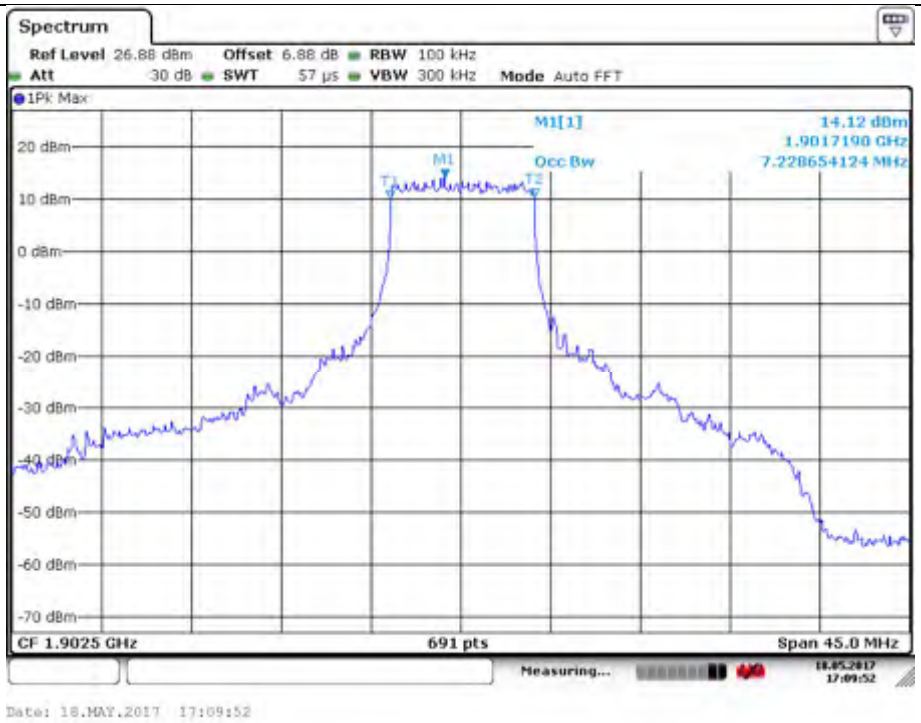

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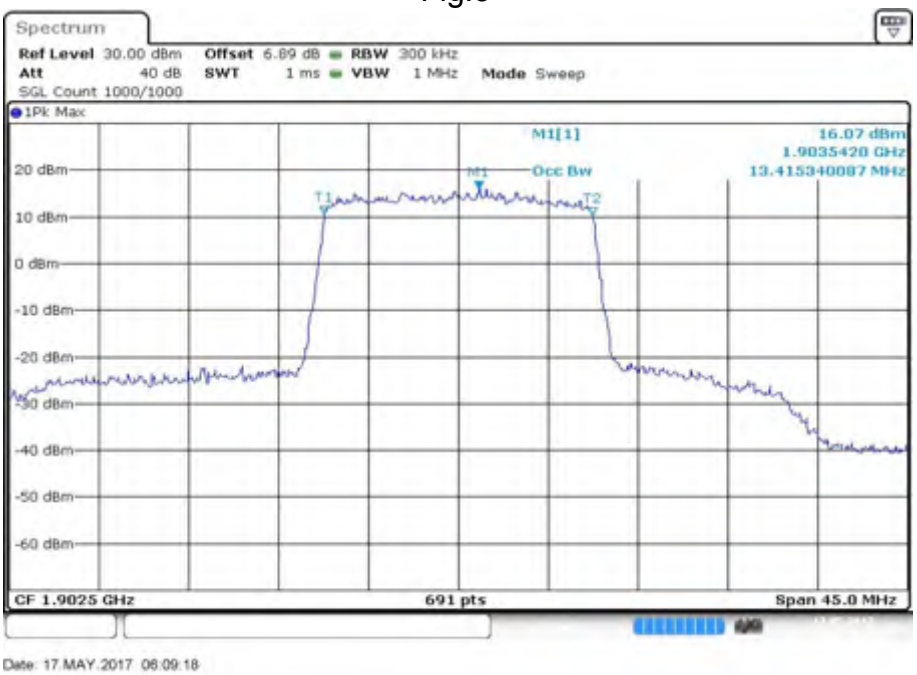

Fig.4

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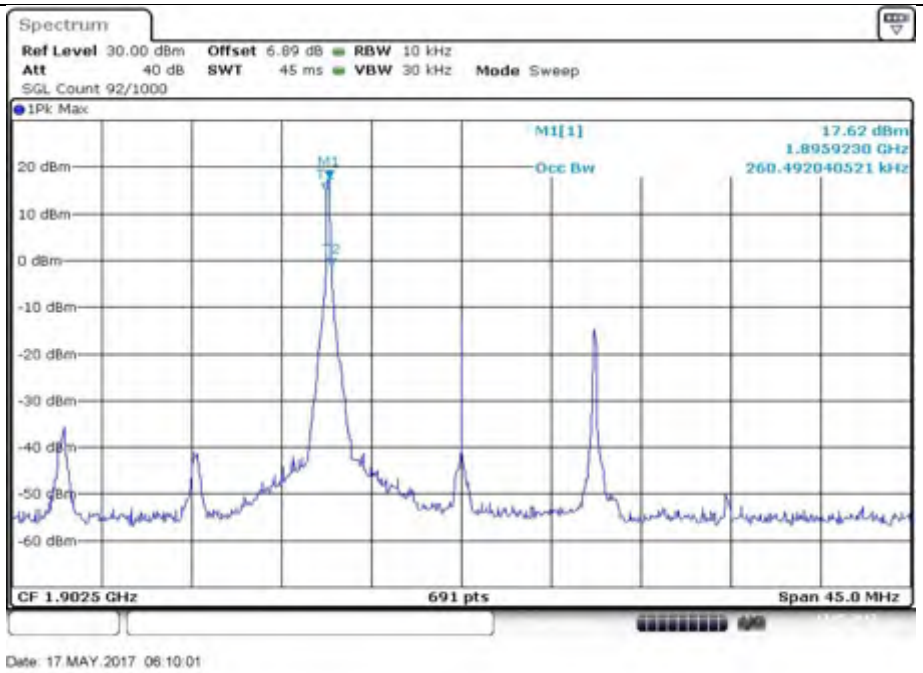

Fig.5

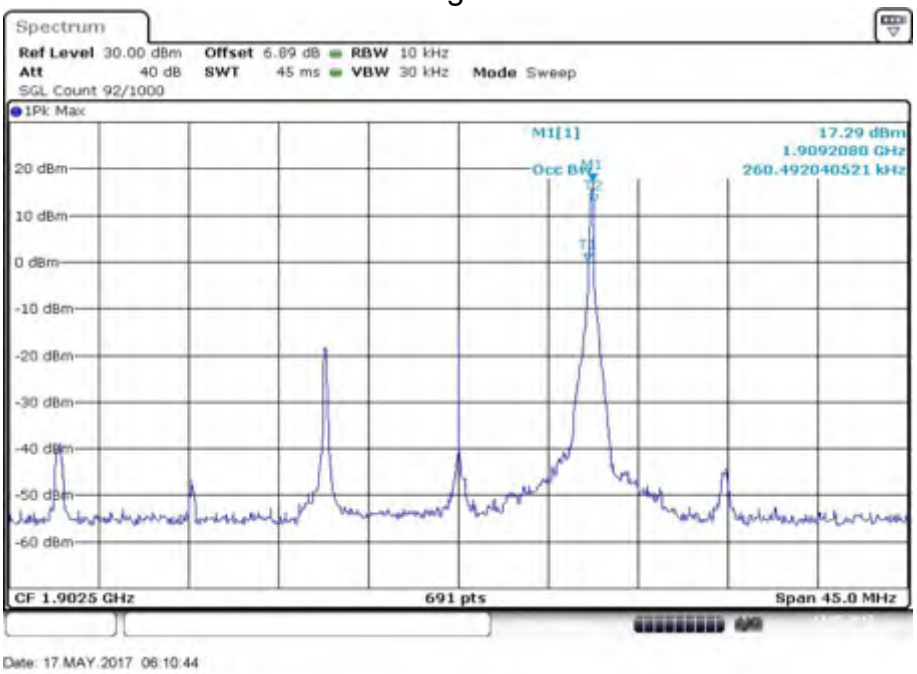

Fig.6

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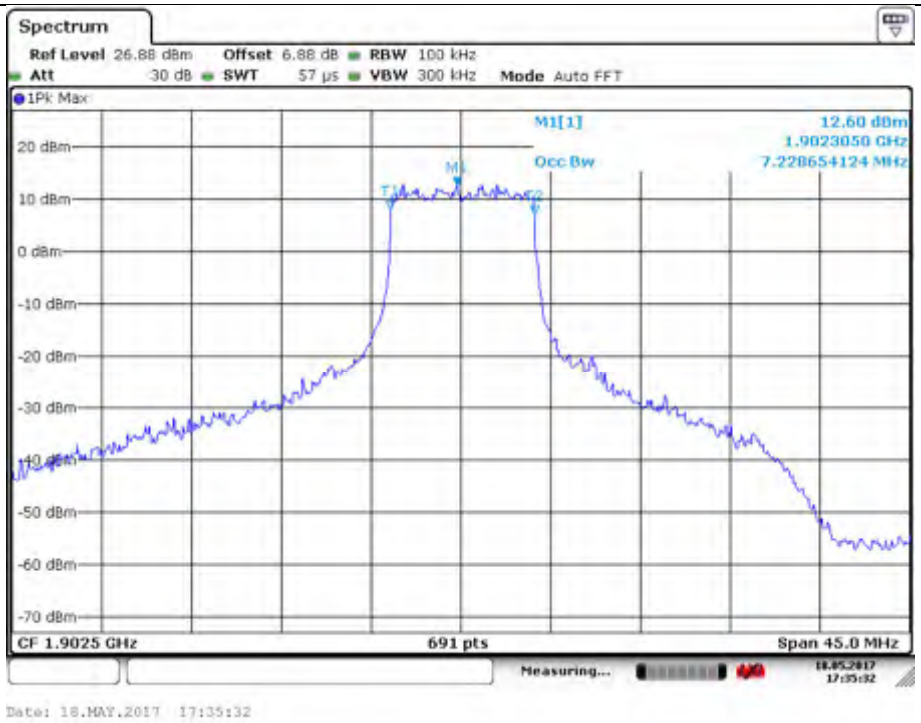

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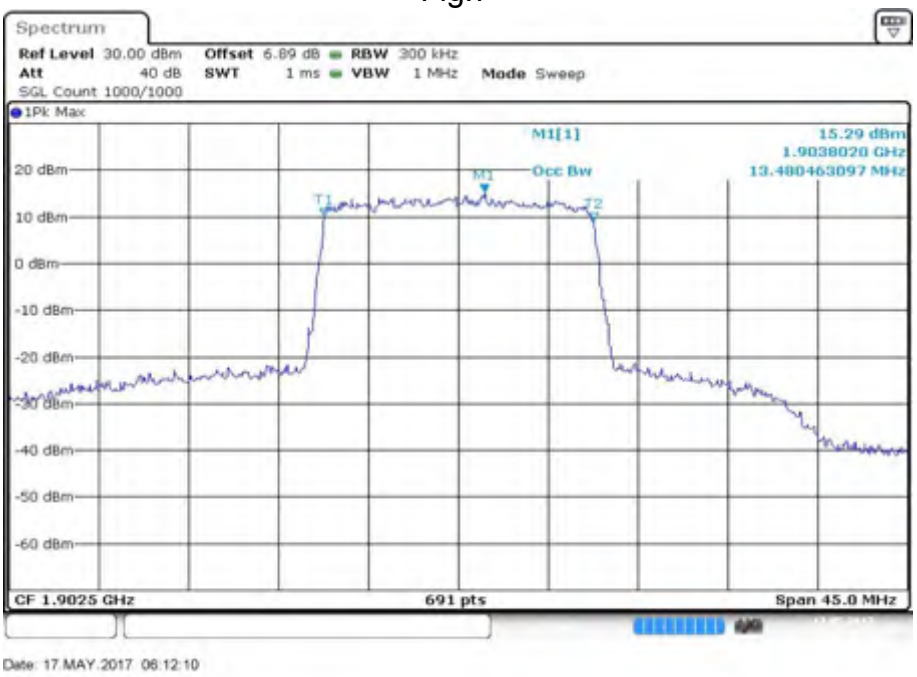

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1860	18700	20	1	0	0.260	Fig.1	0.260	Fig.5
				1	99	0.260	Fig.2	0.260	Fig.6
				50	25	9.117	Fig.3	9.204	Fig.7

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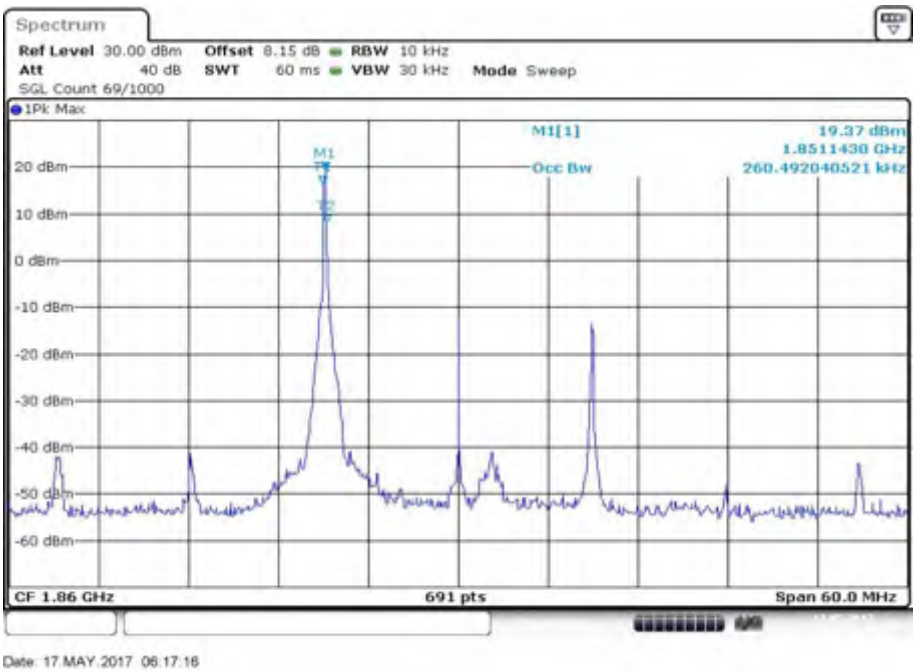
				100	0	17.887	Fig.4	17.974	Fig.8



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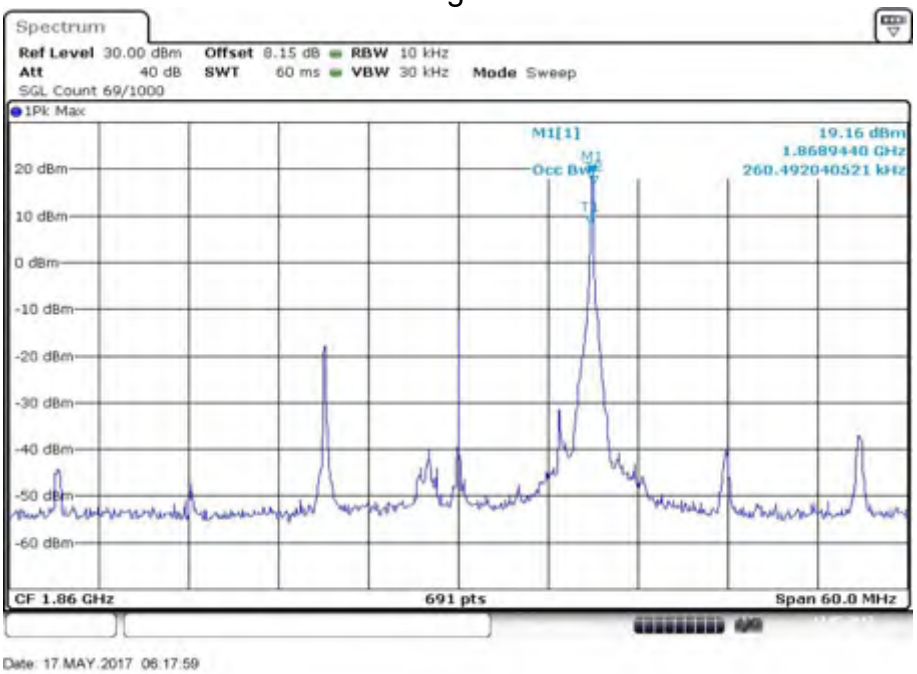

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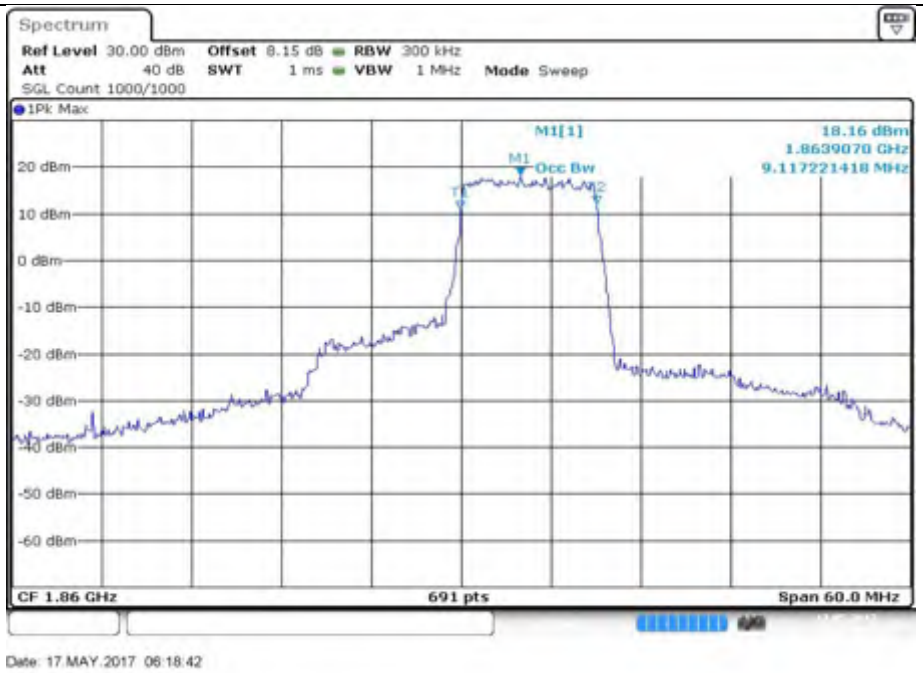

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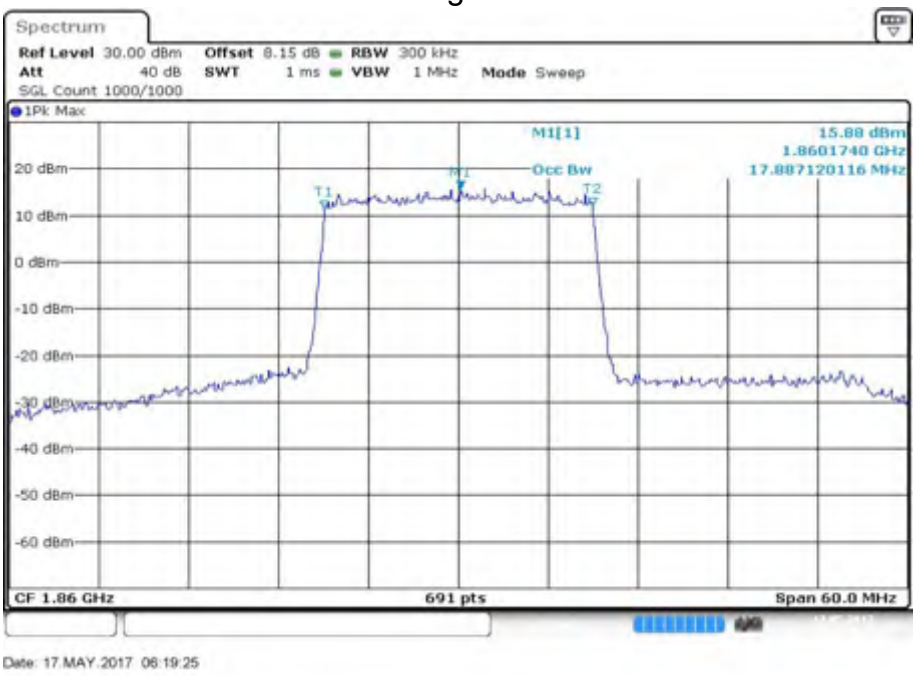

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Fig.4

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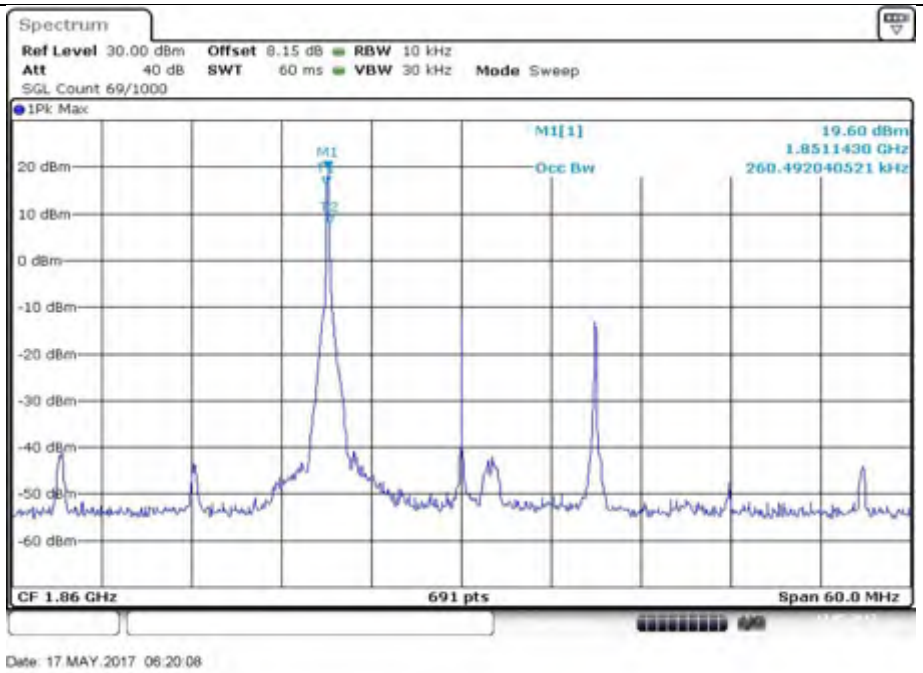

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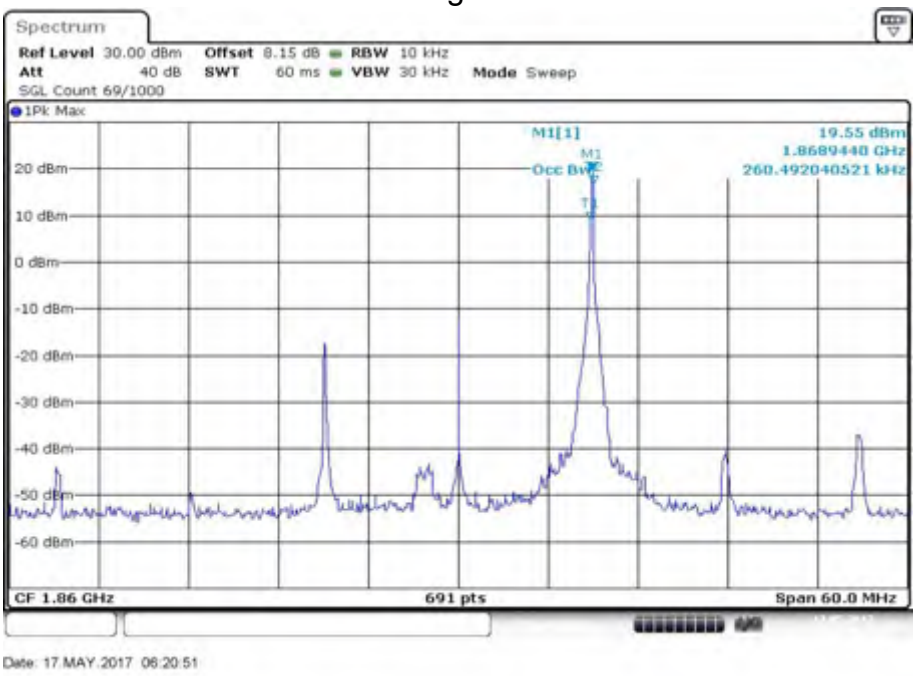

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Fig.6

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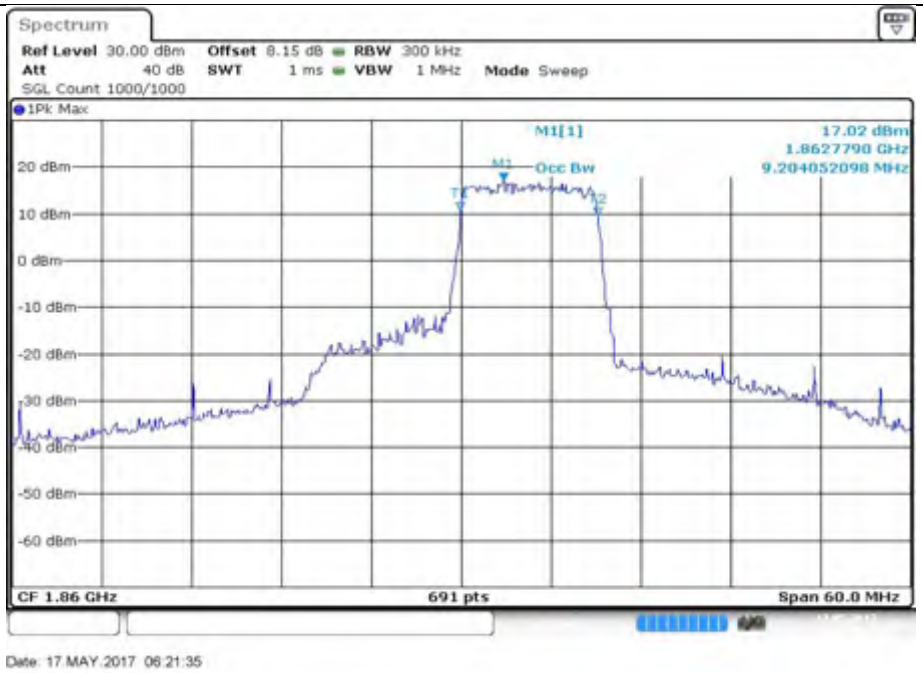

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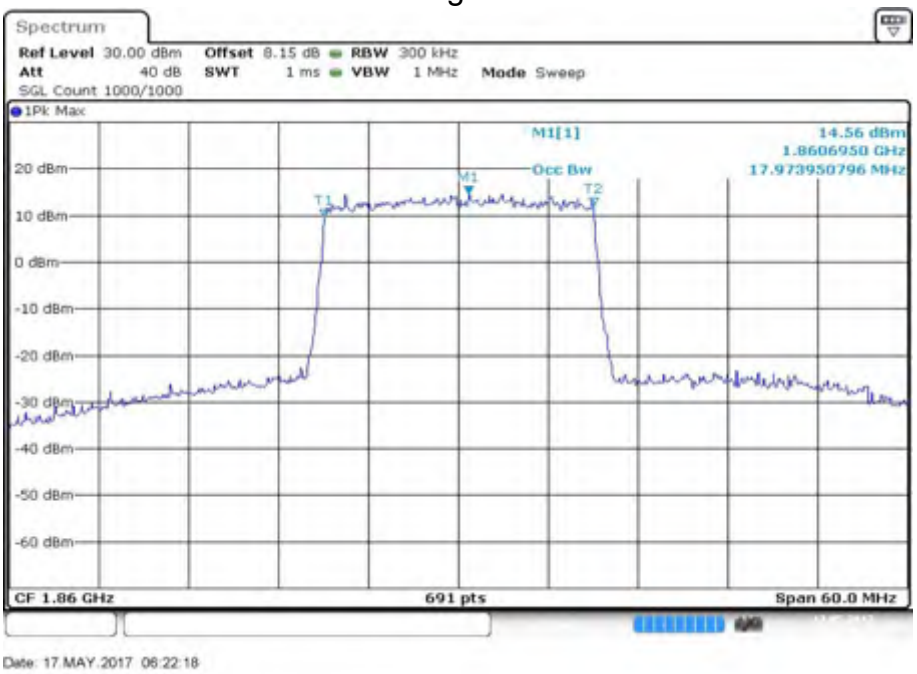

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1880	18900	20	1	0	0.260	Fig.1	0.260	Fig.5
				1	99	0.260	Fig.2	0.260	Fig.6
				50	25	9.117	Fig.3	9.030	Fig.7
				100	0	17.887	Fig.4	17.974	Fig.8

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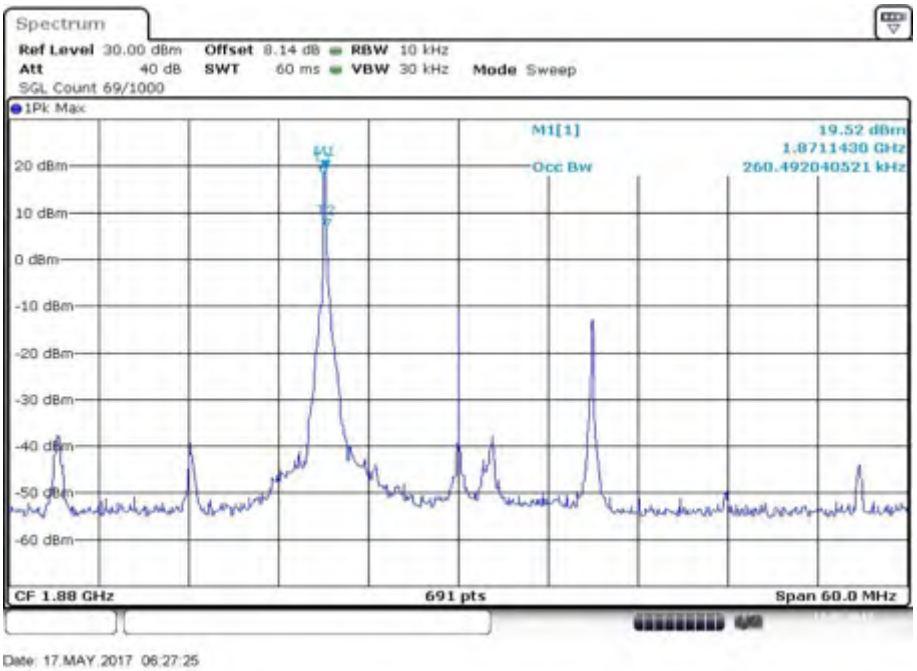

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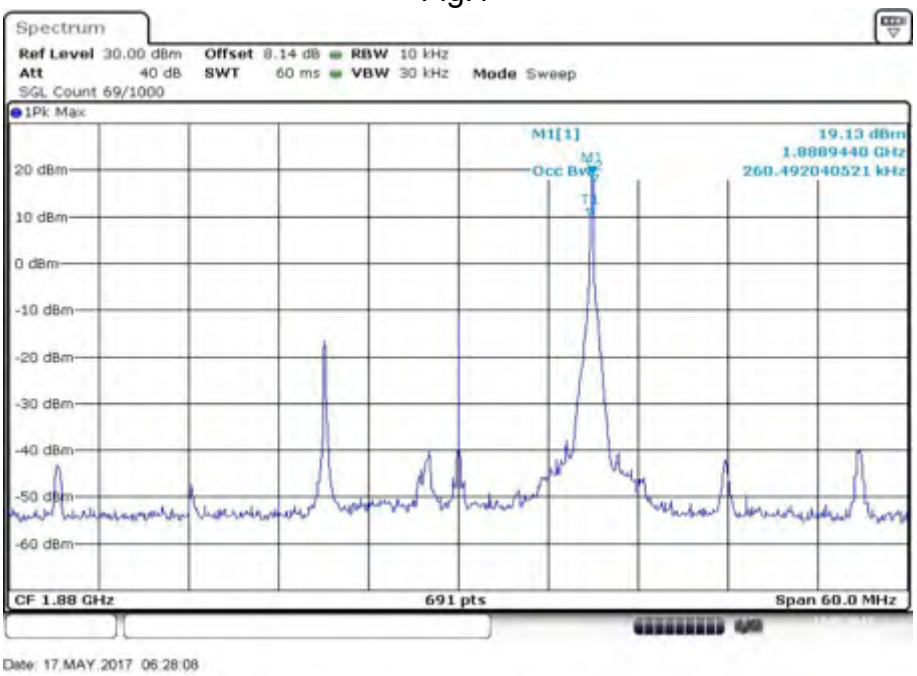

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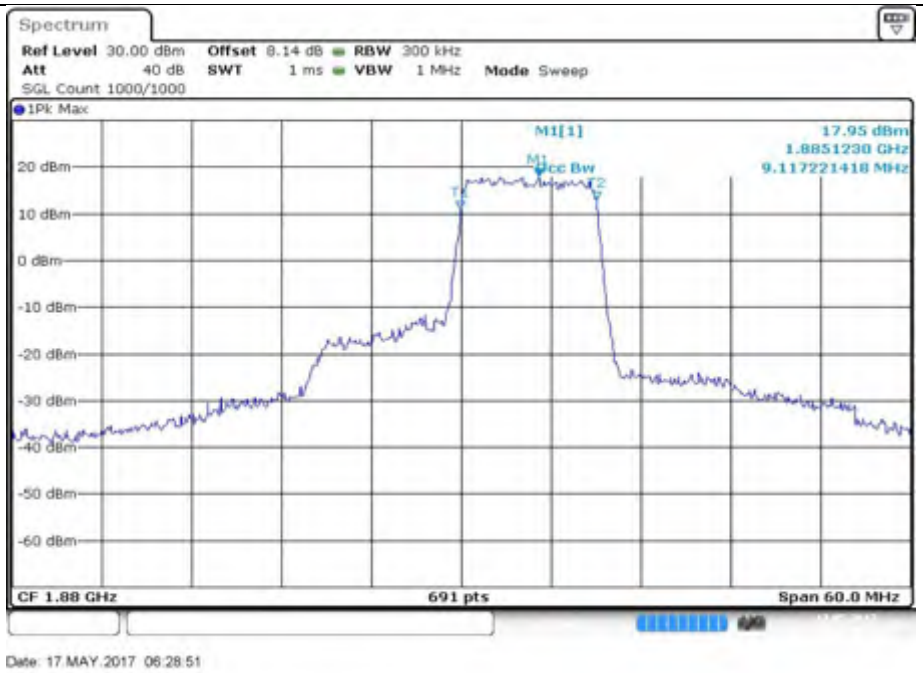

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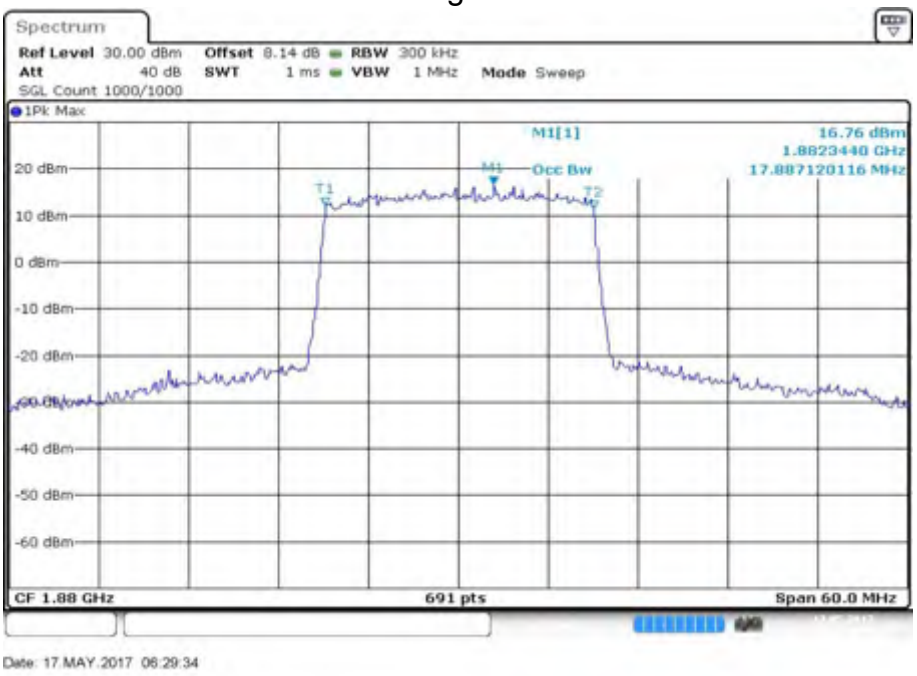

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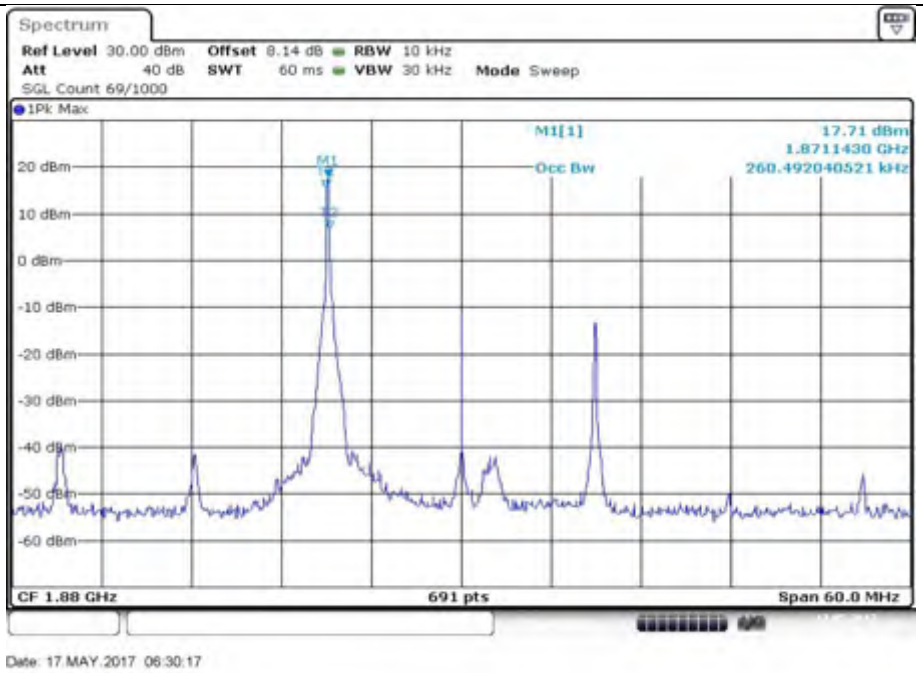

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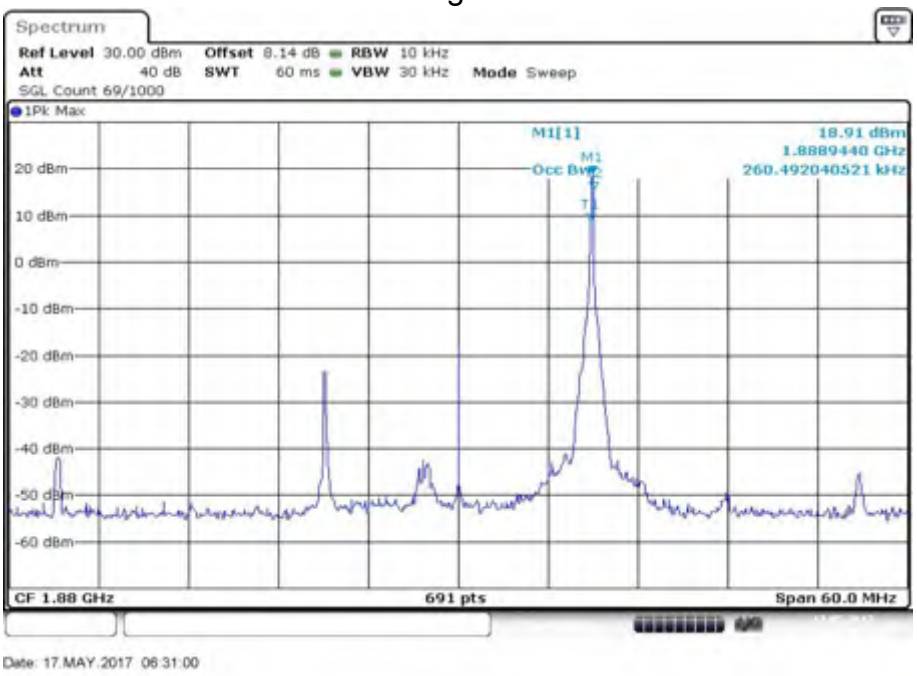

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Fig.6

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Fig.7

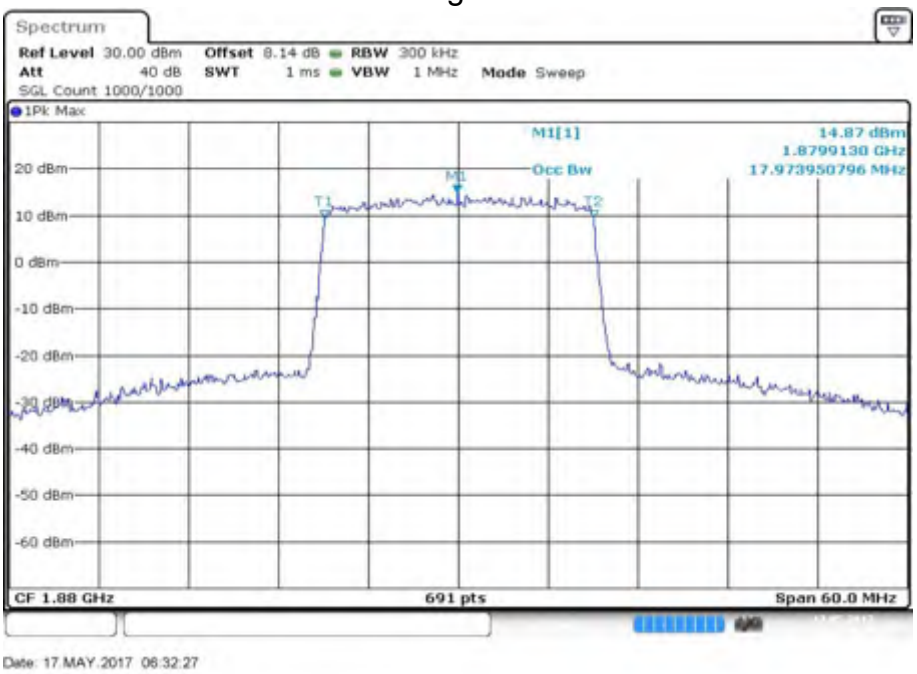

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
2	1900	19100	20	1	0	0.260	Fig.1	0.260	Fig.5
				1	99	0.347	Fig.2	0.260	Fig.6
				50	25	9.117	Fig.3	9.117	Fig.7
				100	0	17.887	Fig.4	17.887	Fig.8

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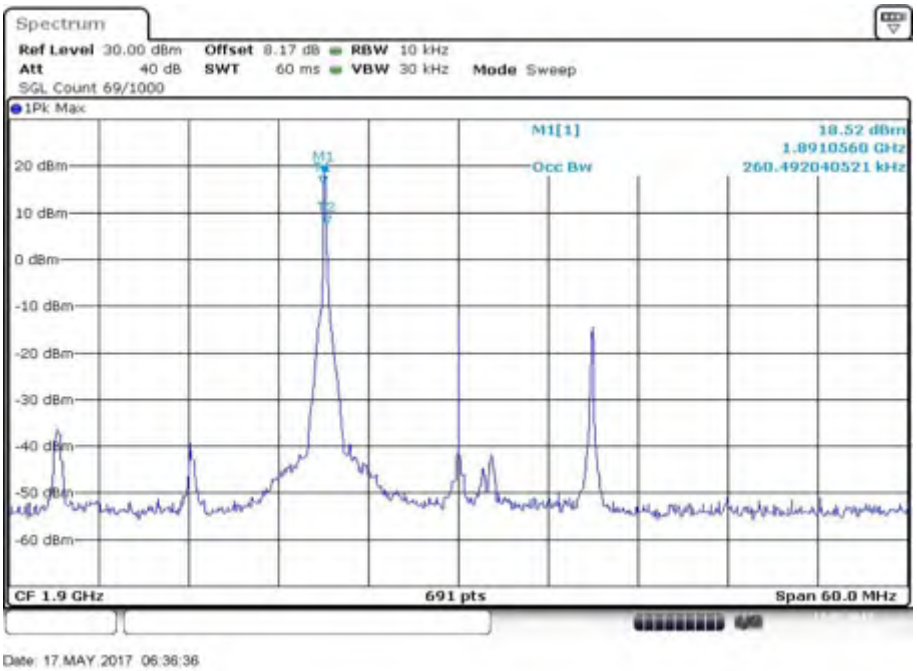

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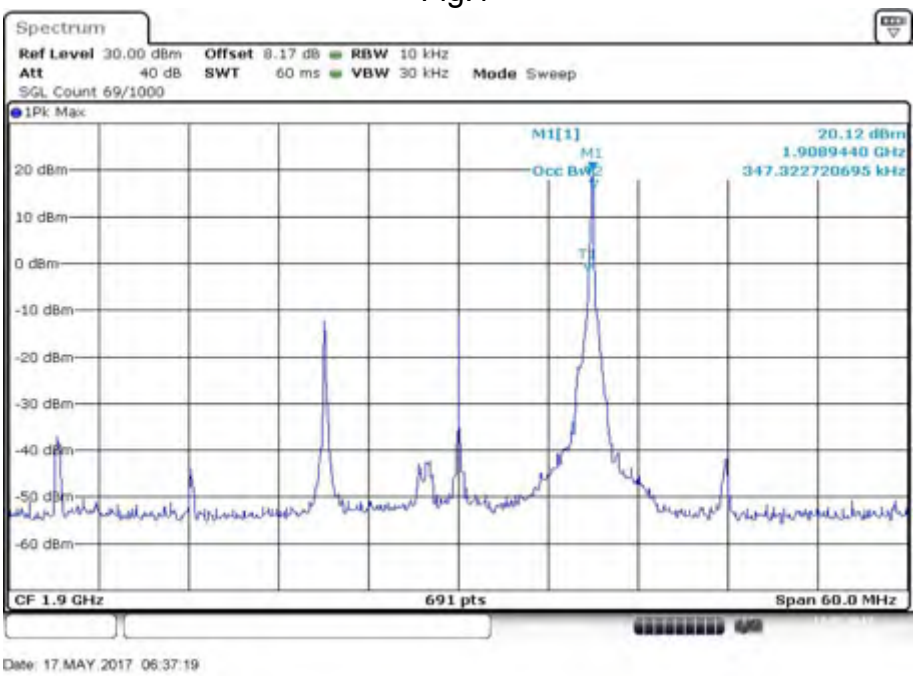

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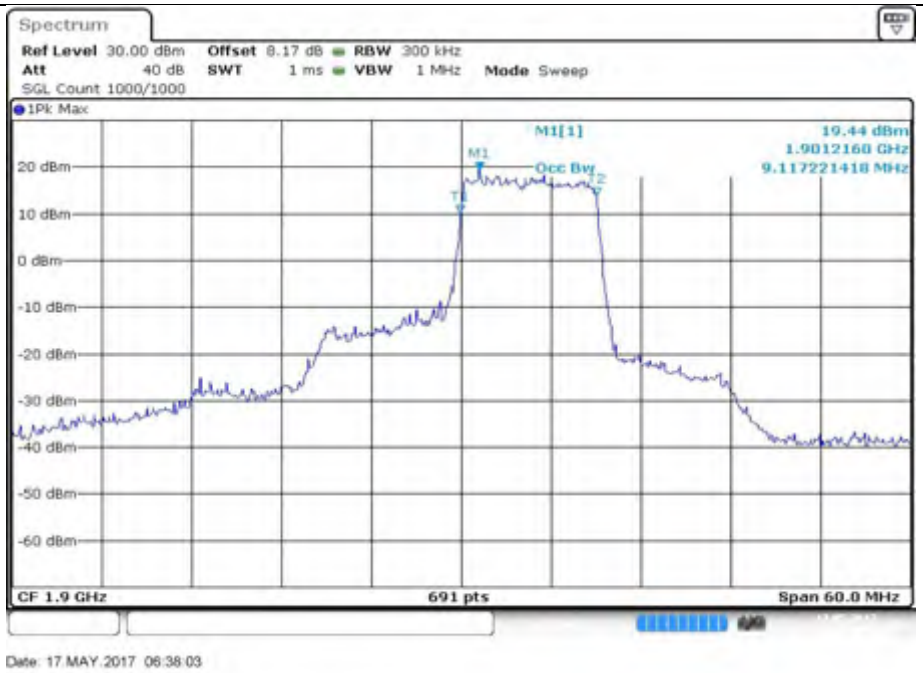

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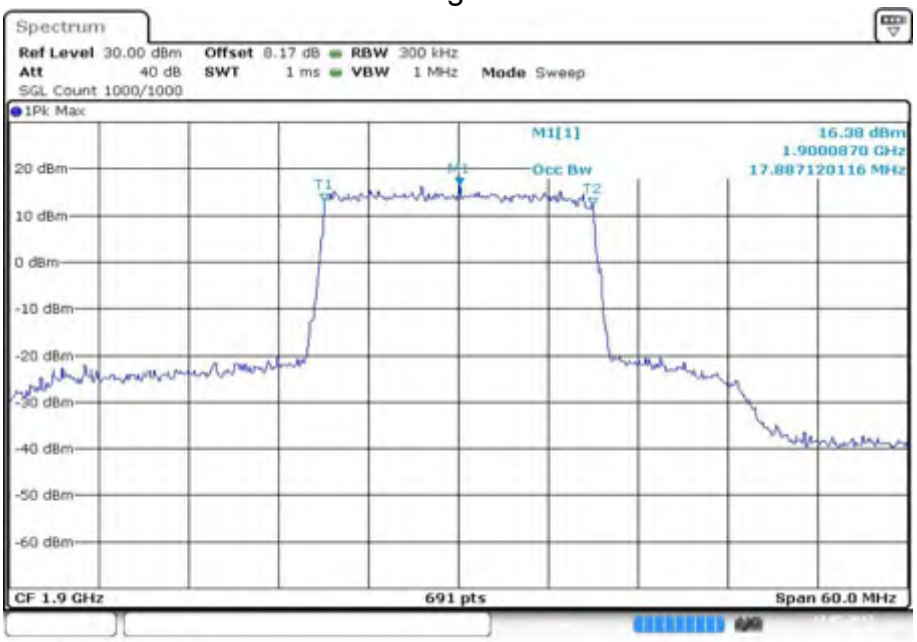

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Fig.4

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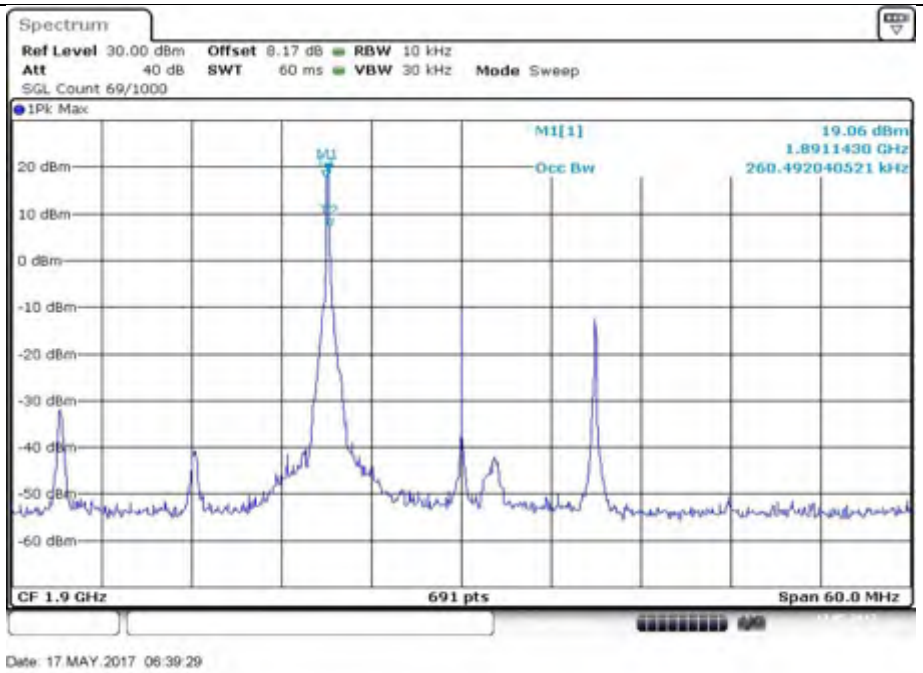

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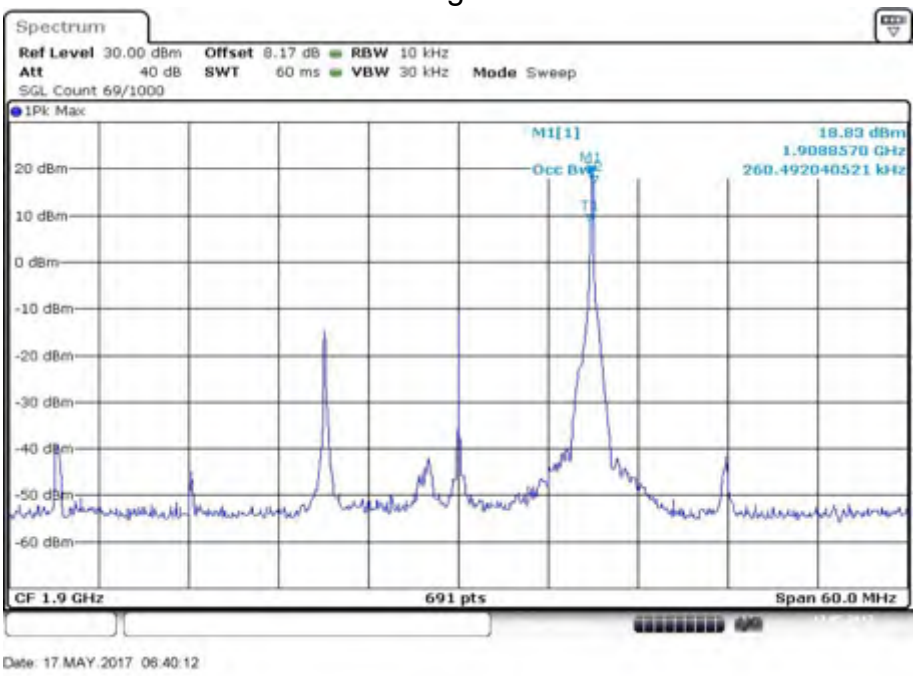

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Fig.6

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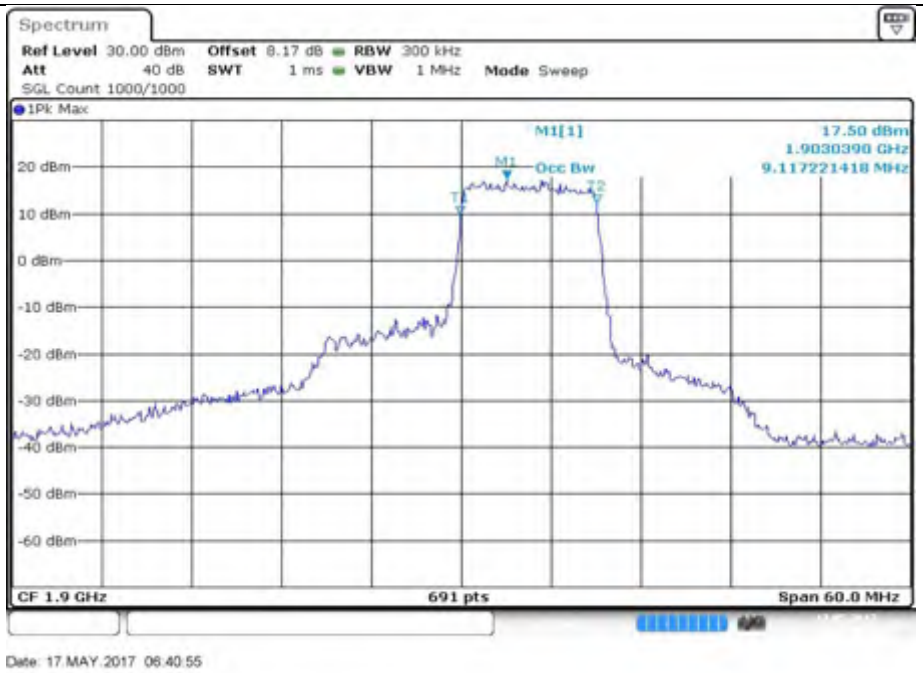

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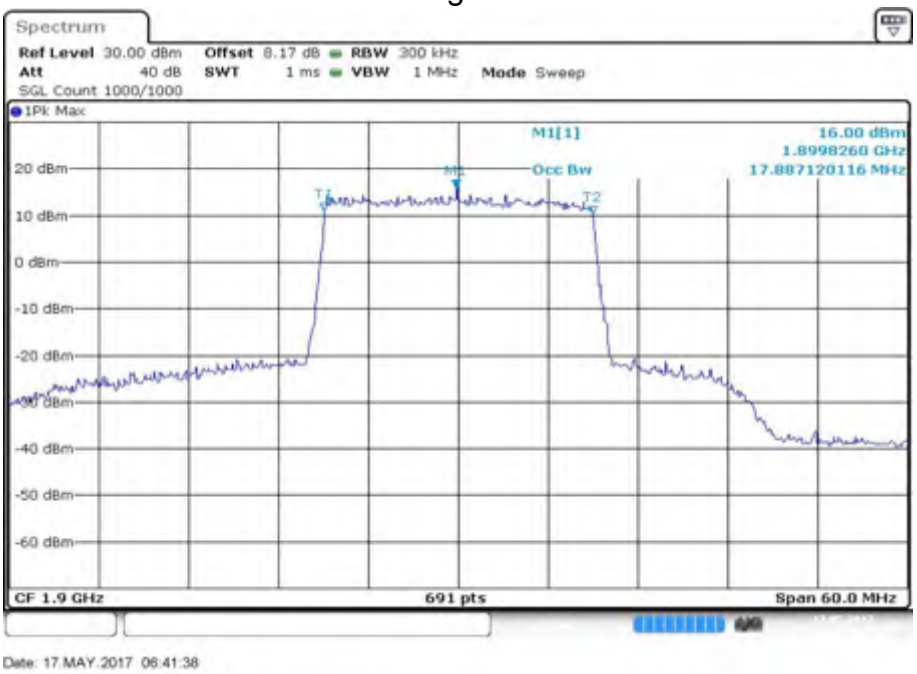

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
4	1710.7	19957	1.4	1	0	0.213	Fig.1	0.219	Fig.5
				1	5	0.213	Fig.2	0.225	Fig.6
				3	2	0.571	Fig.3	0.571	Fig.7
				6	0	1.094	Fig.4	1.100	Fig.8

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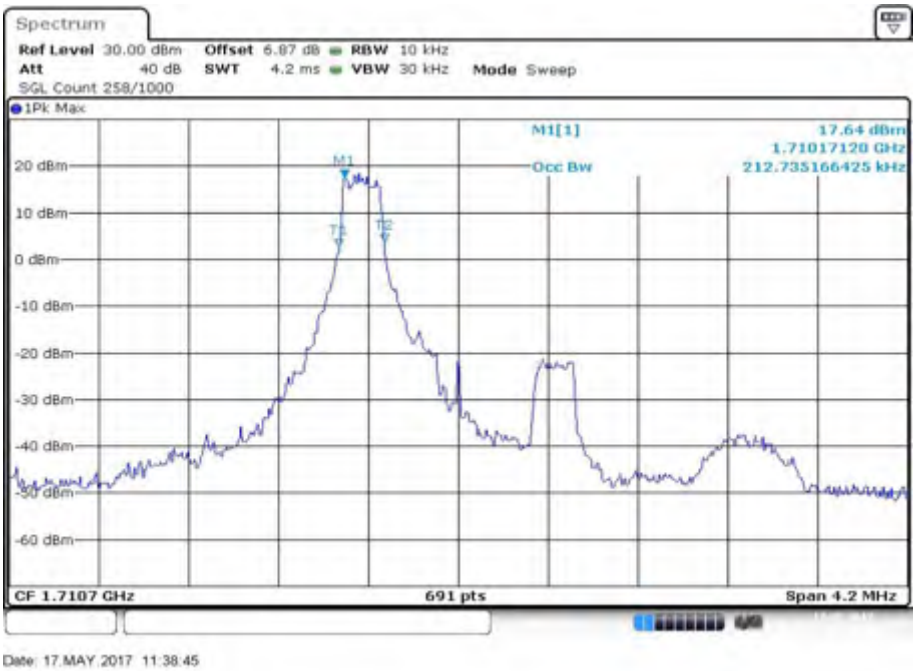

Fig.1

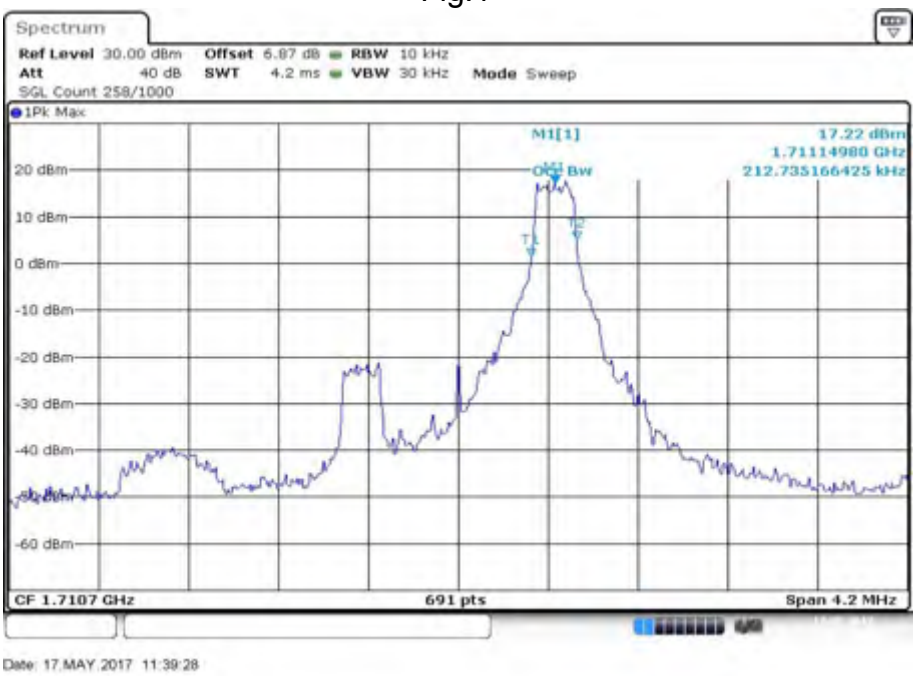

Fig.2

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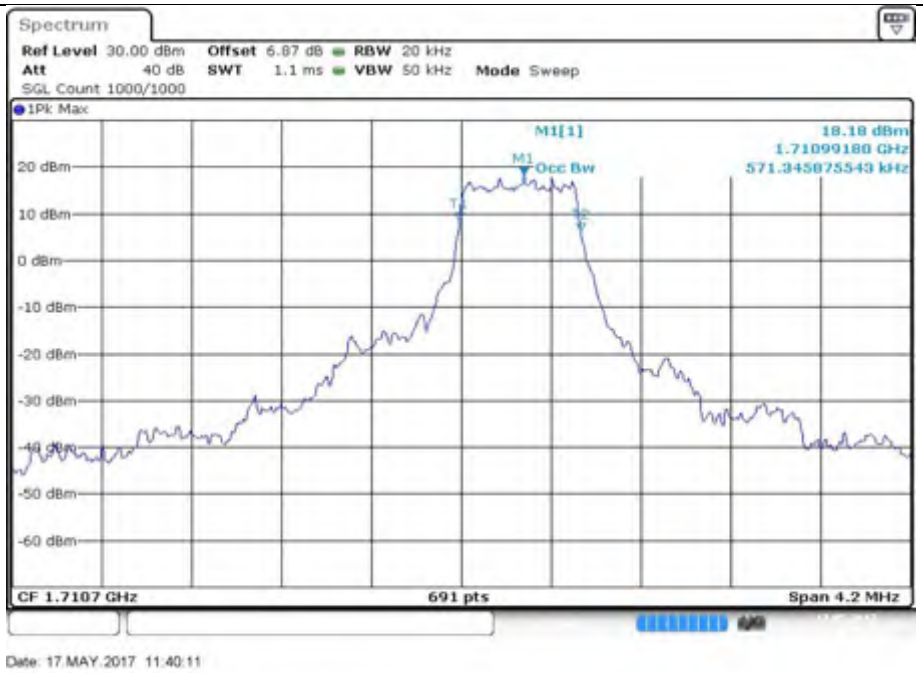

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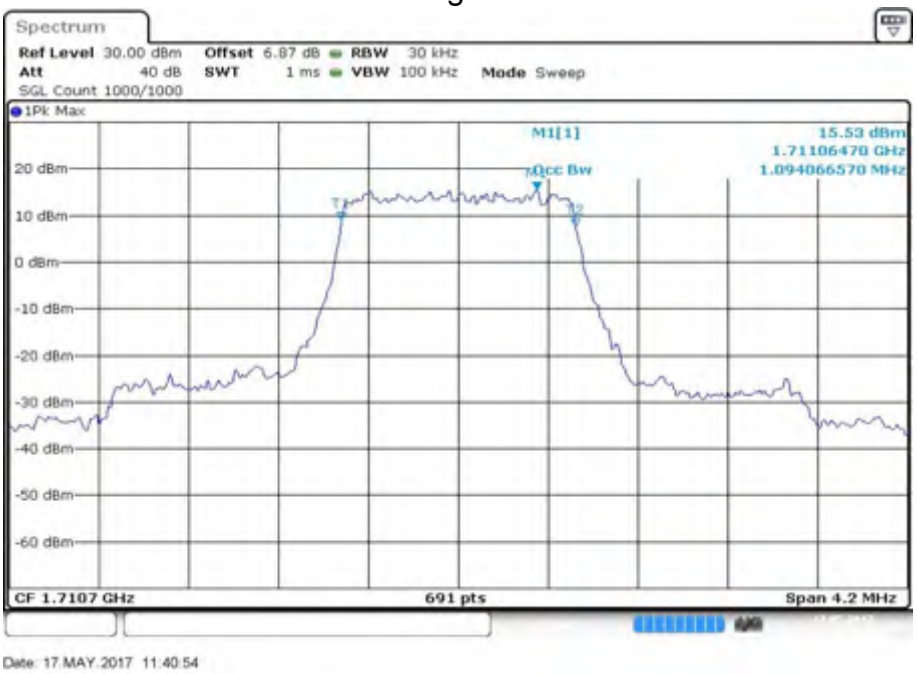

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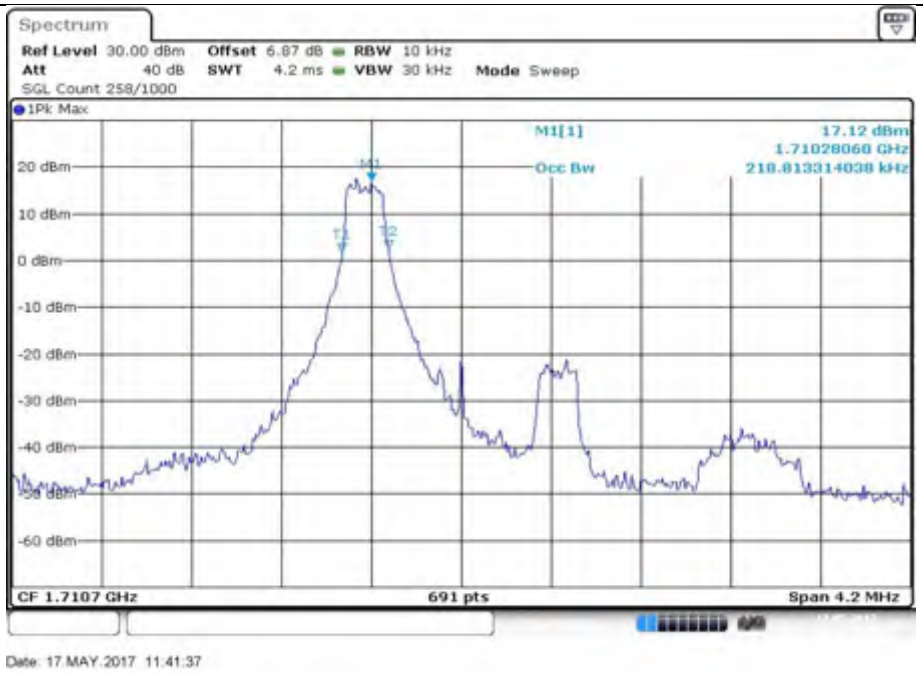

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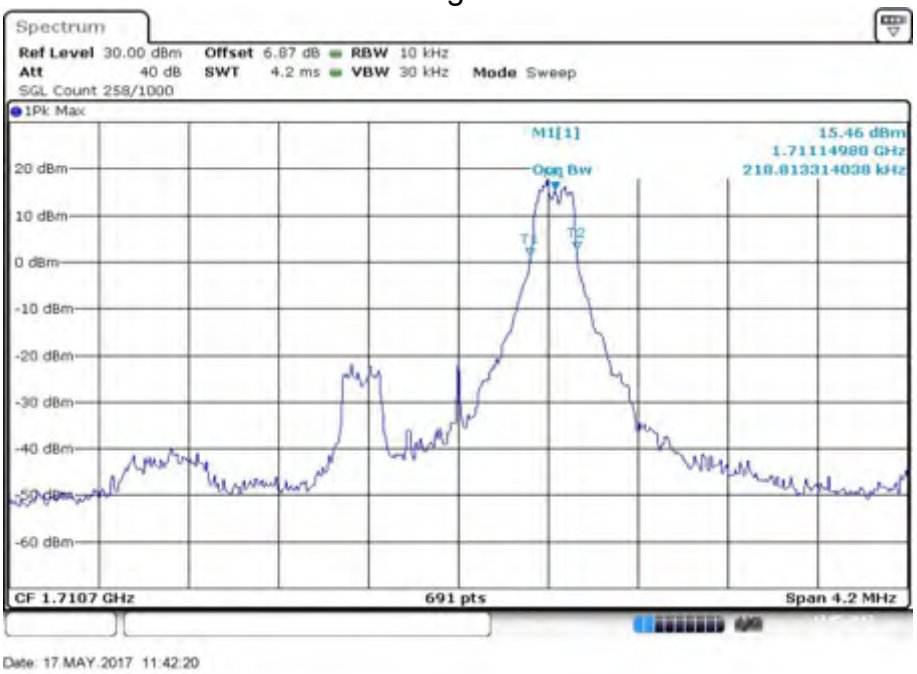

Fig.6

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Fig.7

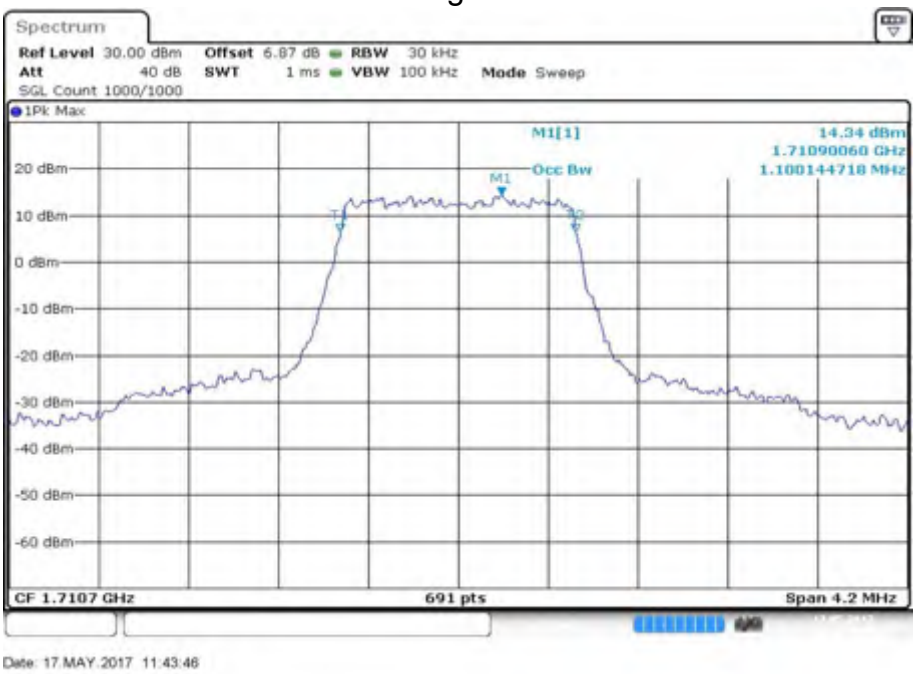

Fig.8

Band	Carrier frequency (MHz)	Channel (Mid)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
4	1732.5	20175	1.4	1	0	0.201	Fig.1	0.219	Fig.5
				1	5	0.219	Fig.2	0.219	Fig.6
				3	2	0.571	Fig.3	0.571	Fig.7
				6	0	1.100	Fig.4	1.100	Fig.8

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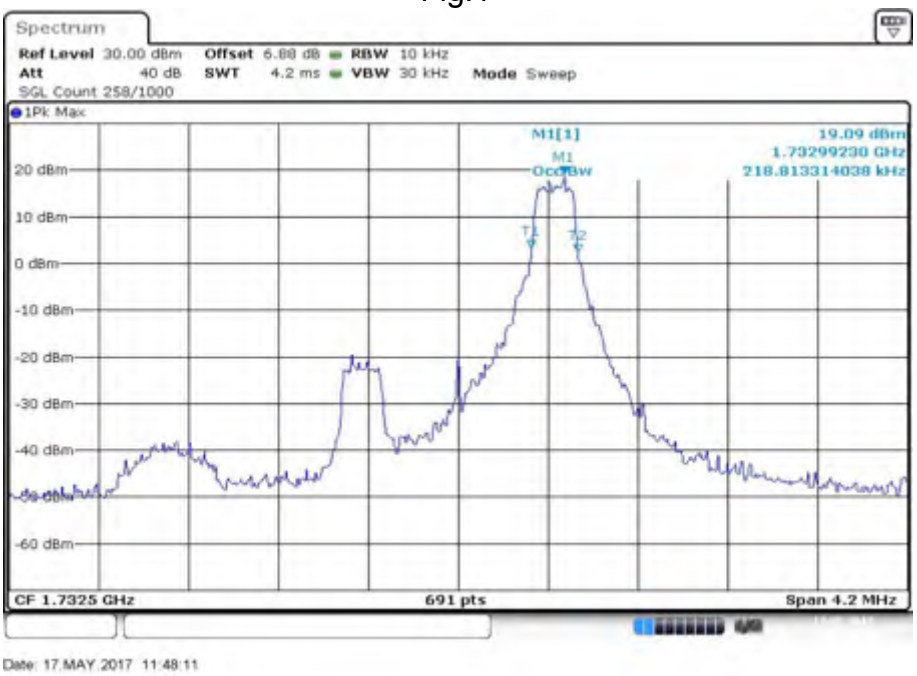
Fig.1



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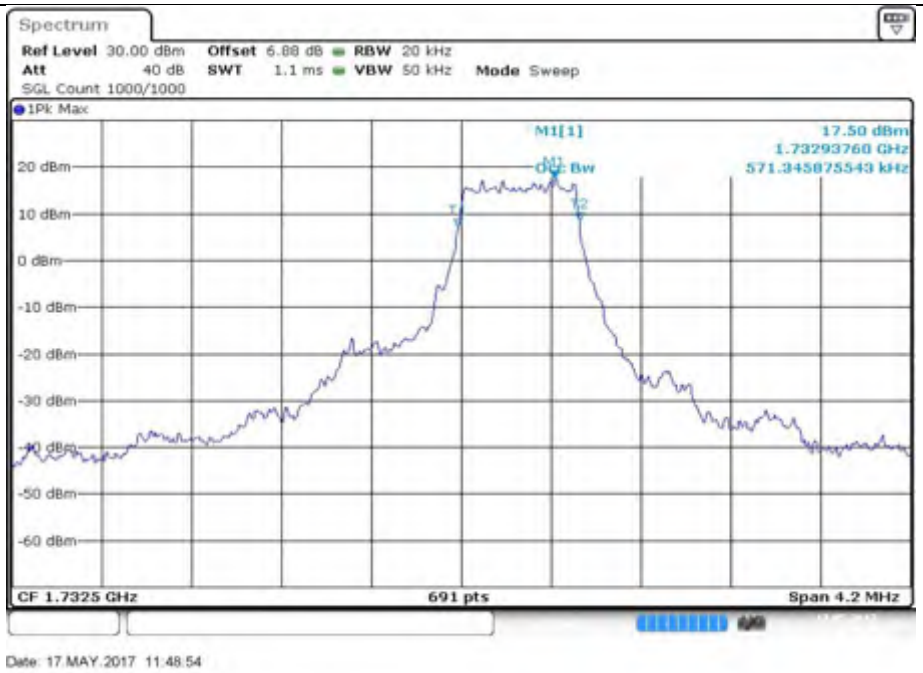

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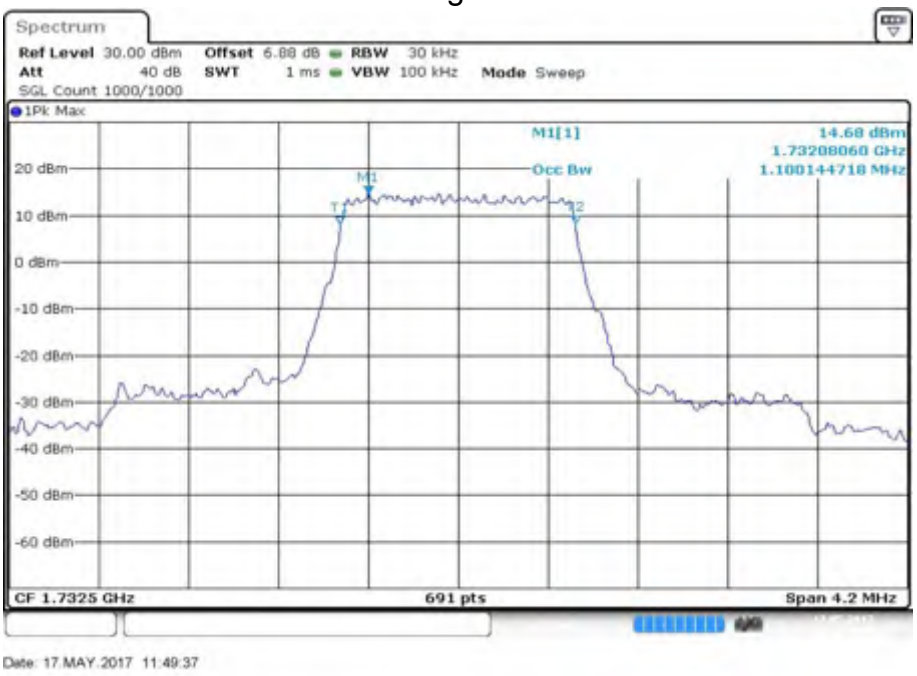

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Fig.4

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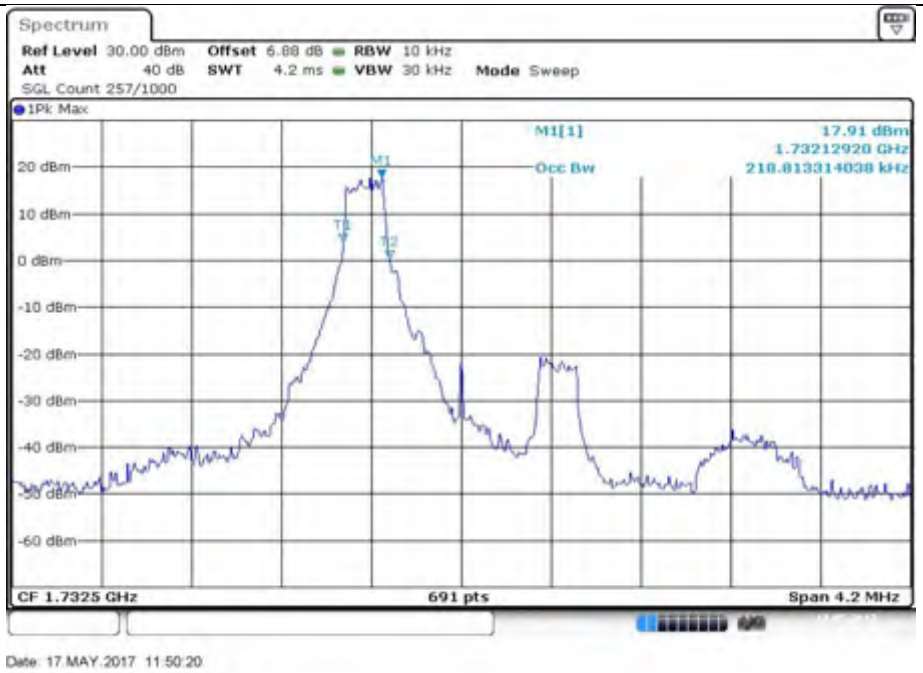

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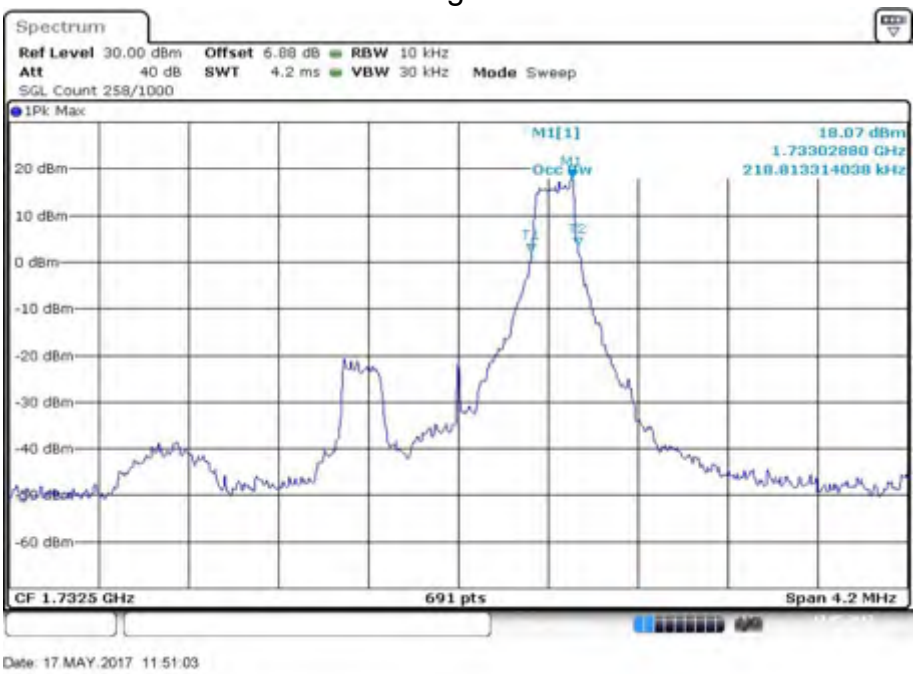

Fig.6

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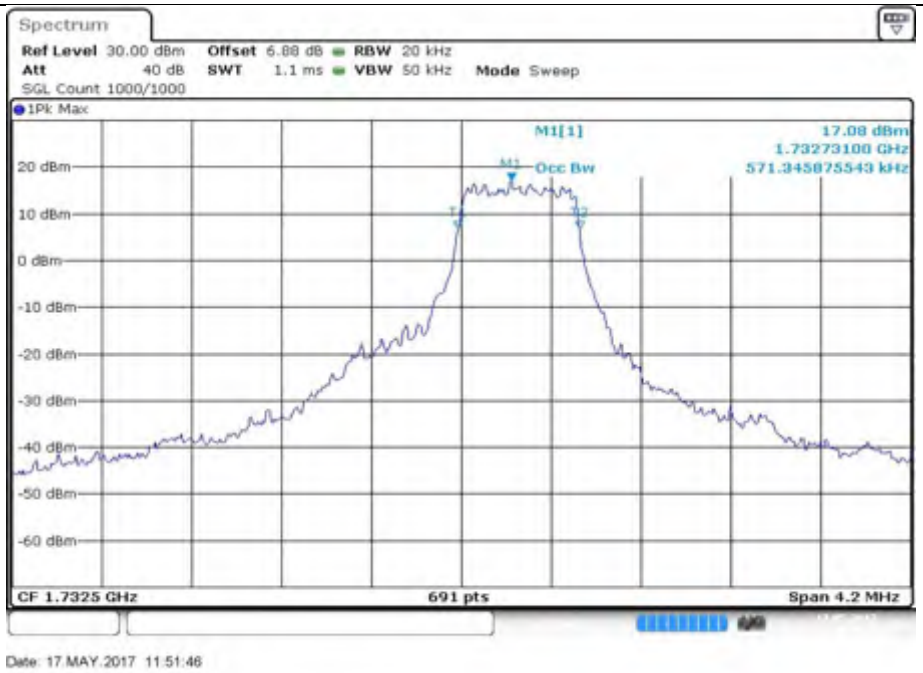

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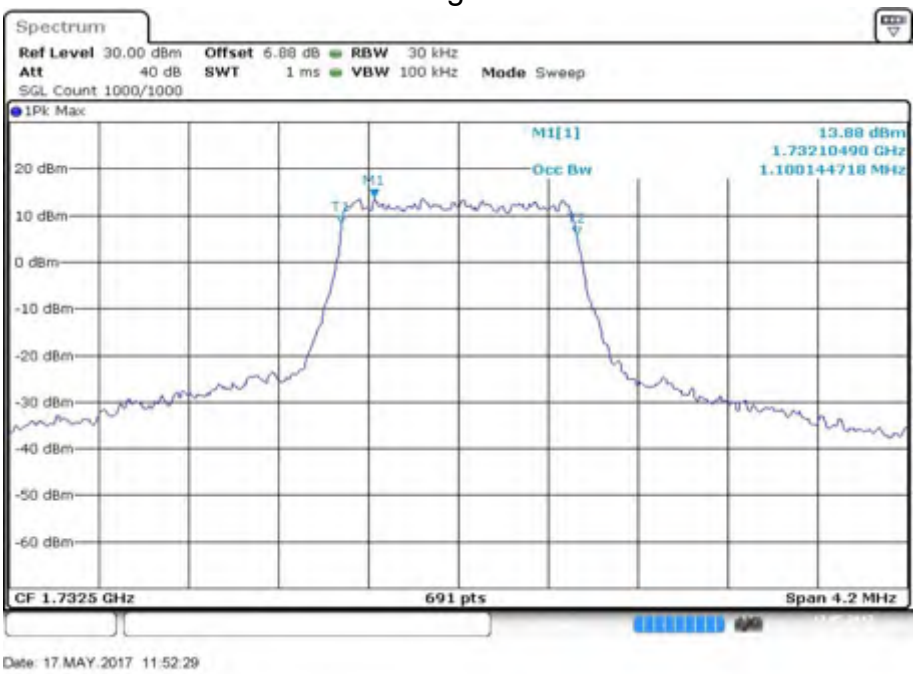

Fig.8

Band	Carrier frequency (MHz)	Channel (High)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
4	1754.3	20393	1.4	1	0	0.213	Fig.1	0.219	Fig.5
				1	5	0.207	Fig.2	0.207	Fig.6
				3	2	0.571	Fig.3	0.559	Fig.7
				6	0	1.100	Fig.4	1.106	Fig.8

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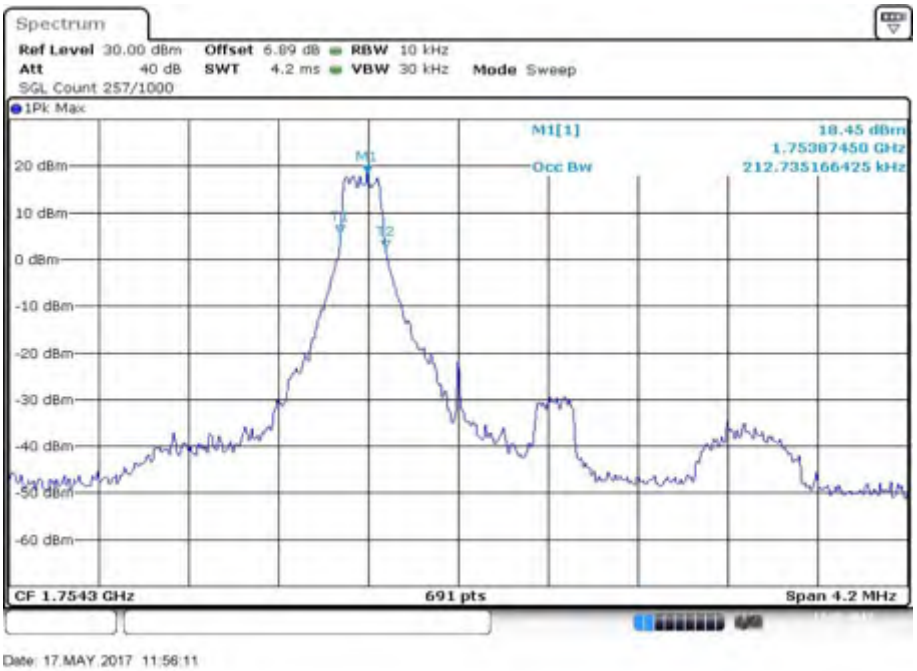

Fig.1

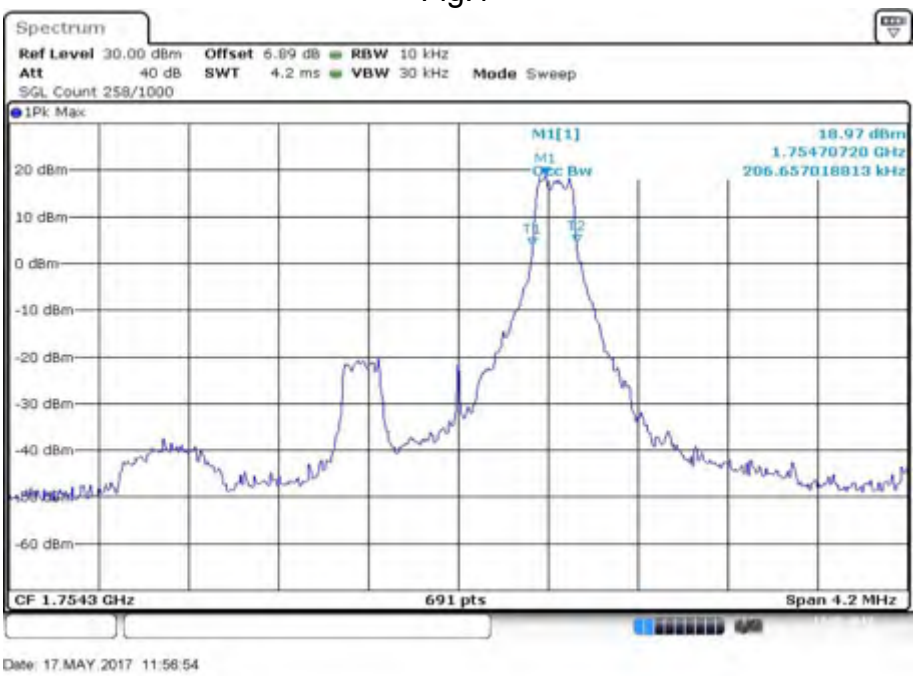

Fig.2

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Fig.3

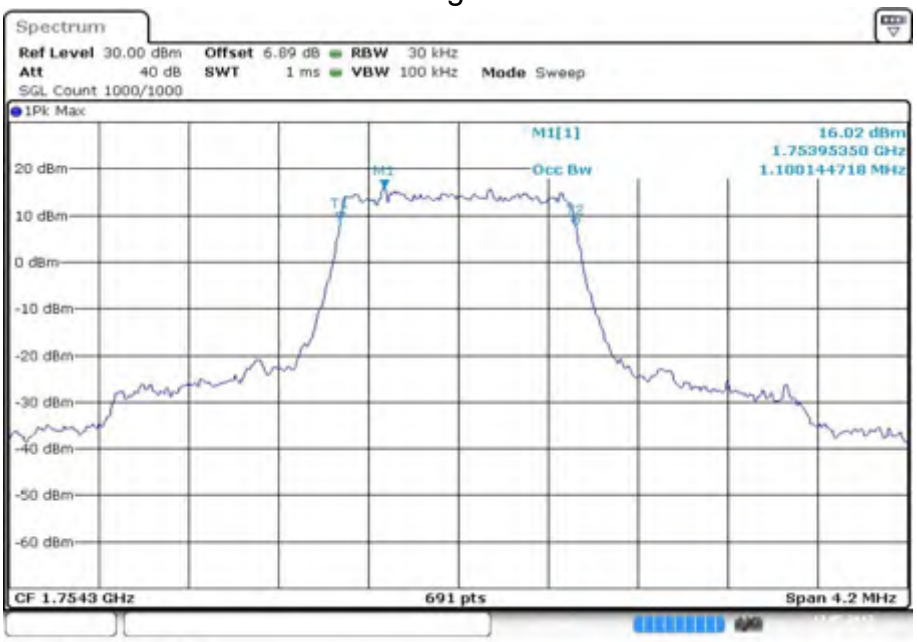

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Fig.4

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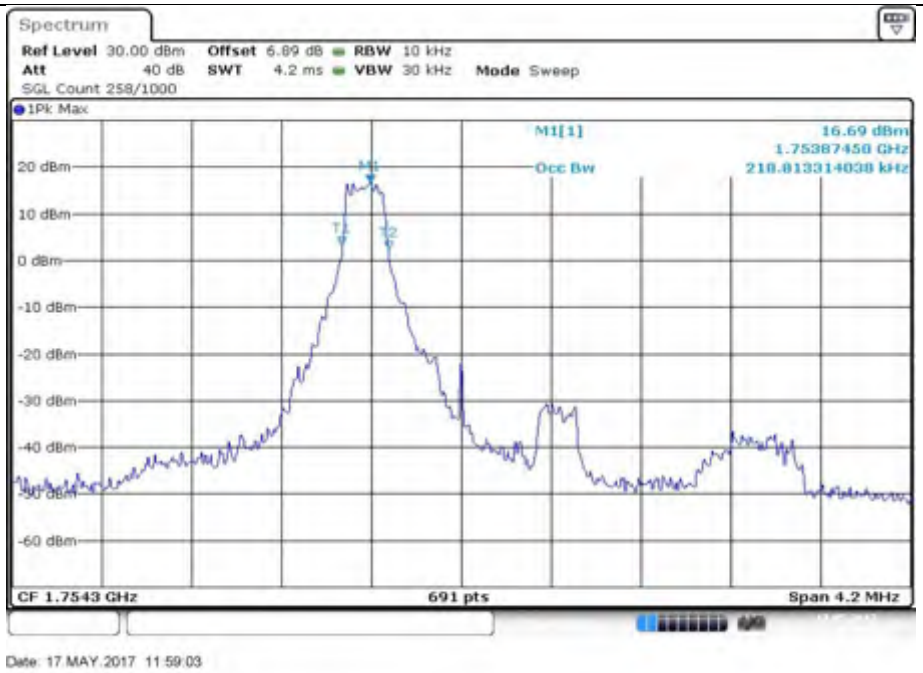

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Fig.5

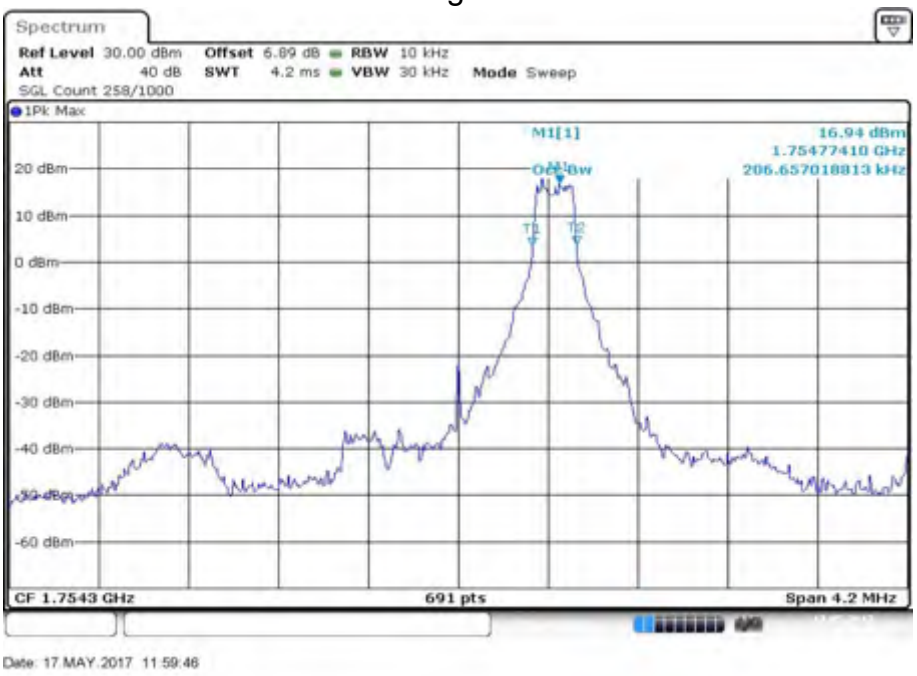

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Fig.6

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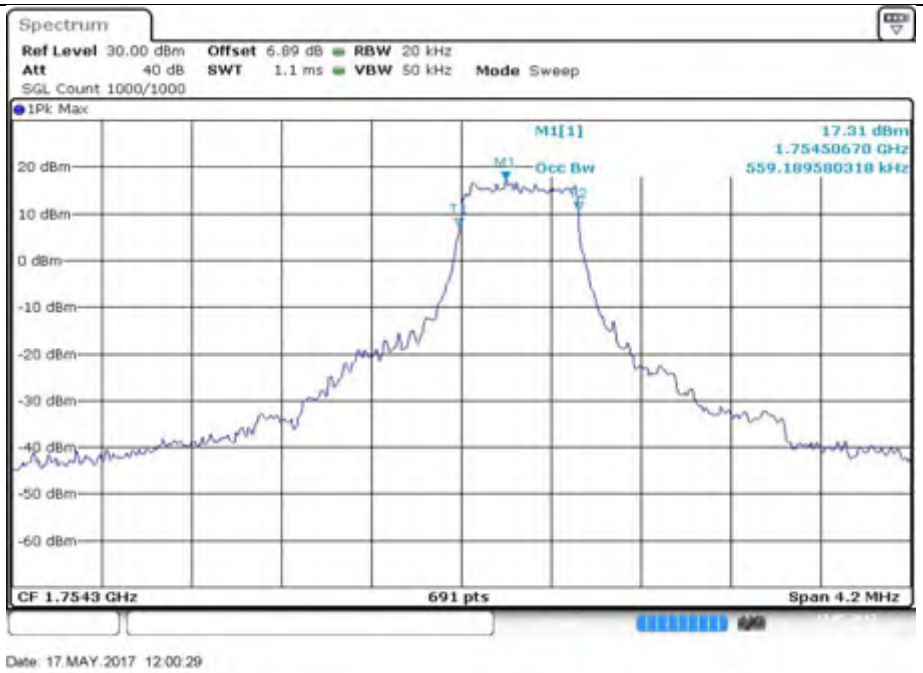

Fig.7

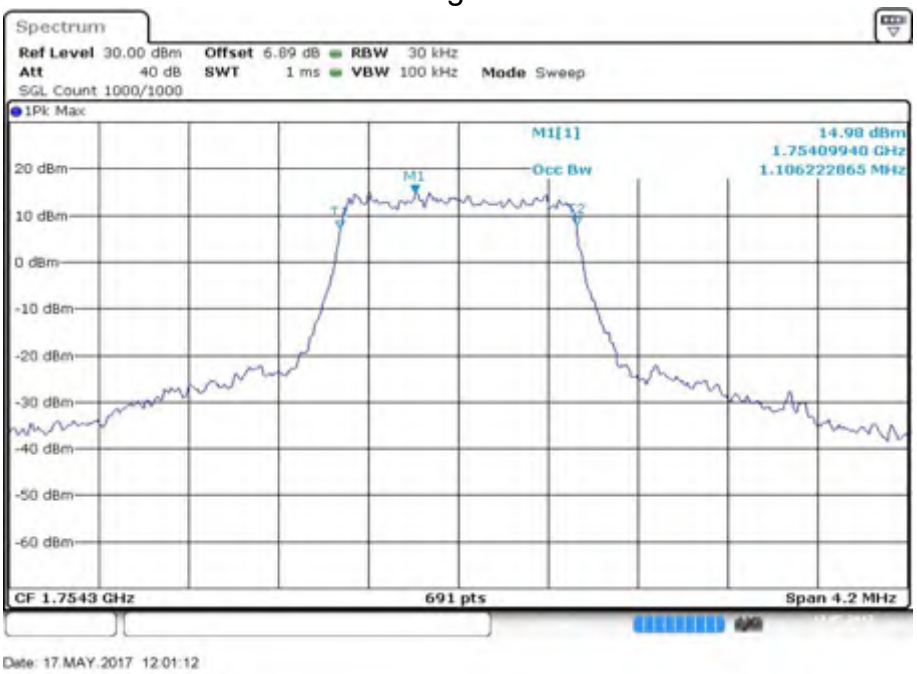

Fig.8

Band	Carrier frequency (MHz)	Channel (Low)	BW	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
4	1711.5	19965	3	1	0	0.221	Fig.1	0.221	Fig.5
				1	14	0.221	Fig.2	0.221	Fig.6
				8	4	1.472	Fig.3	1.472	Fig.7
				15	0	2.748	Fig.4	2.735	Fig.8

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Fig.1

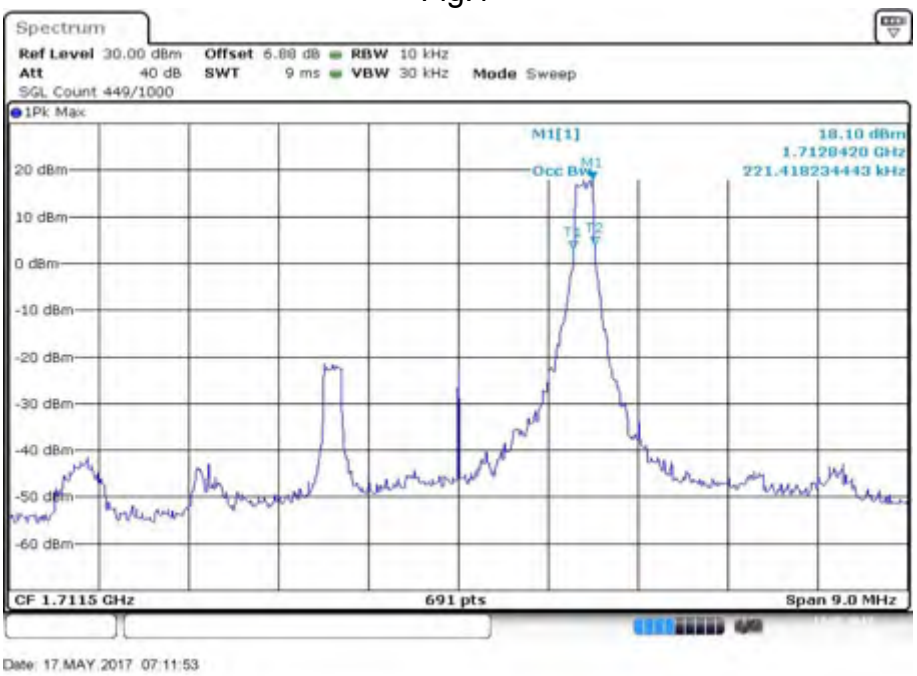

Fig.2

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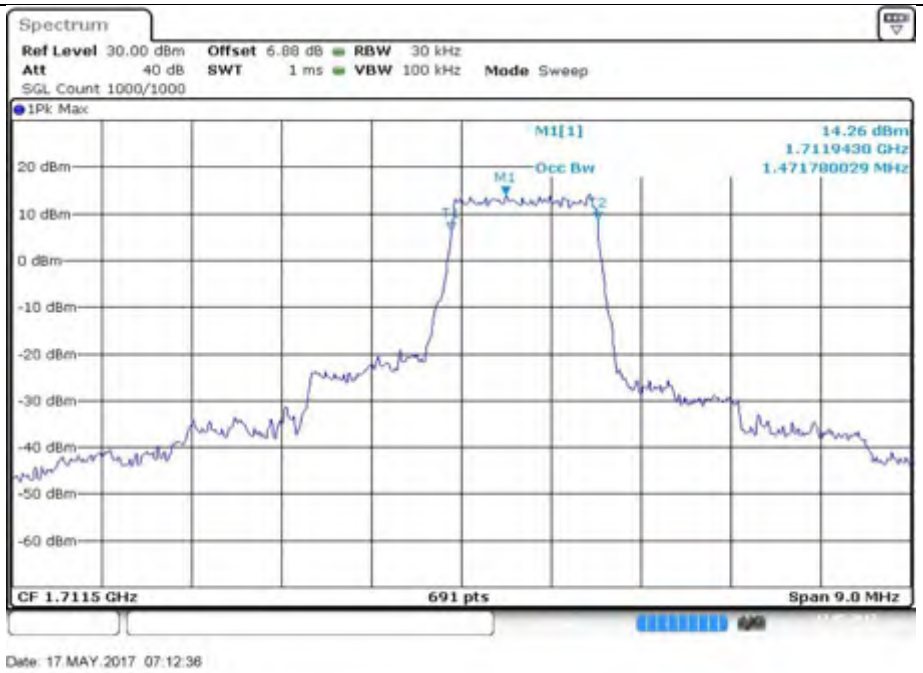

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Fig.3

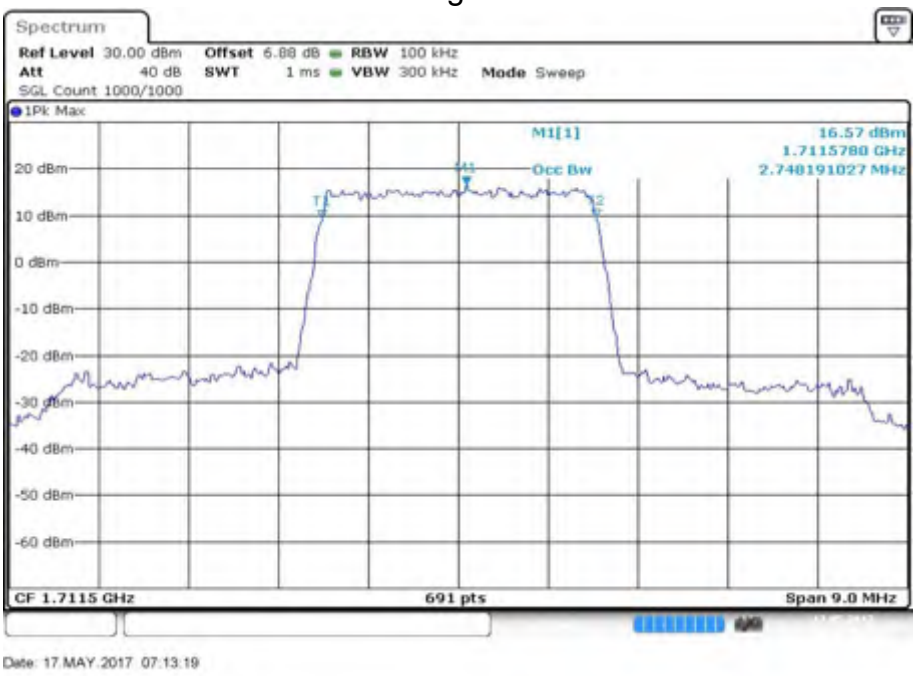

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Fig.4

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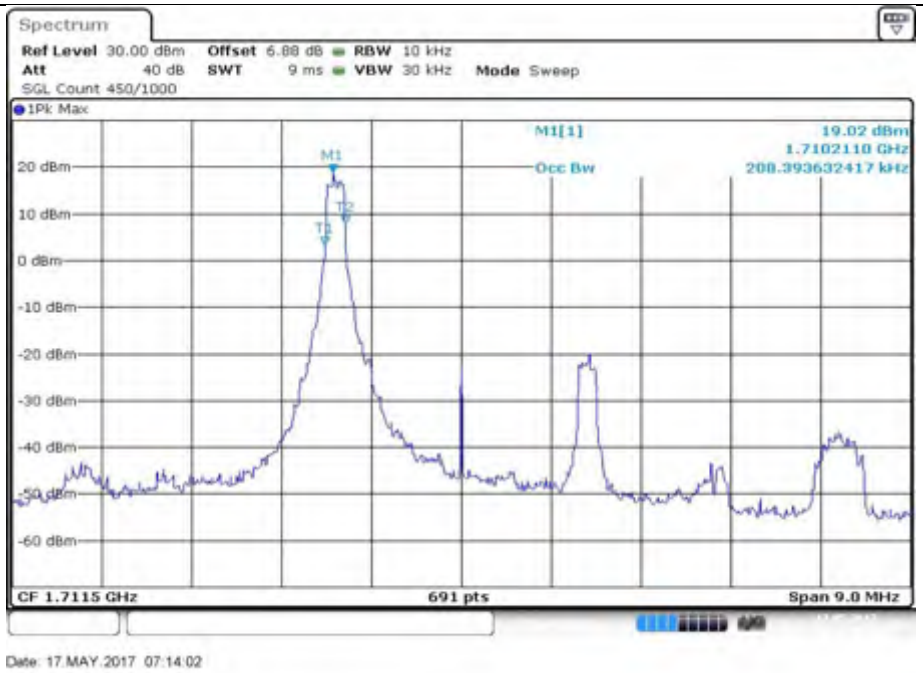

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Fig.5

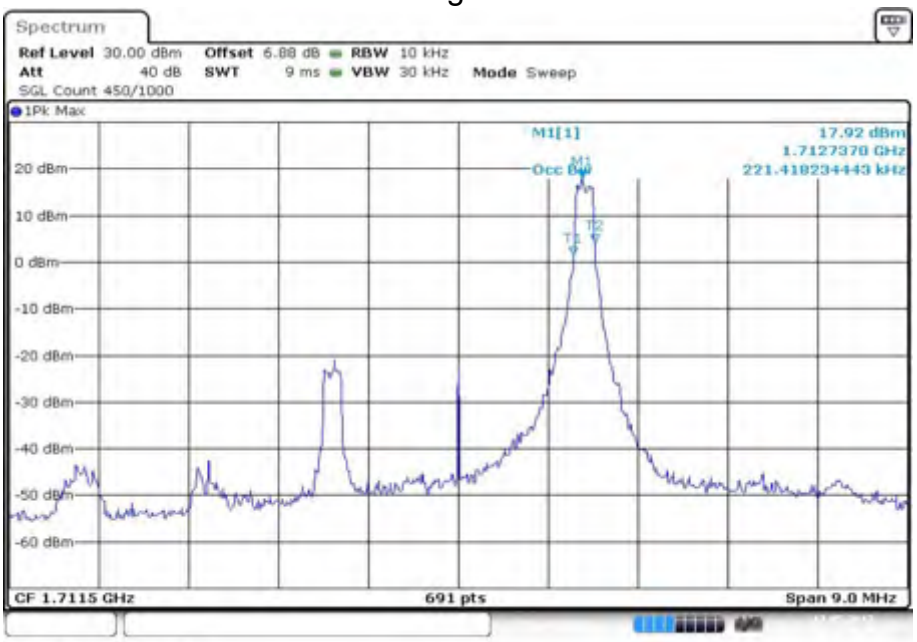

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Fig.6

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