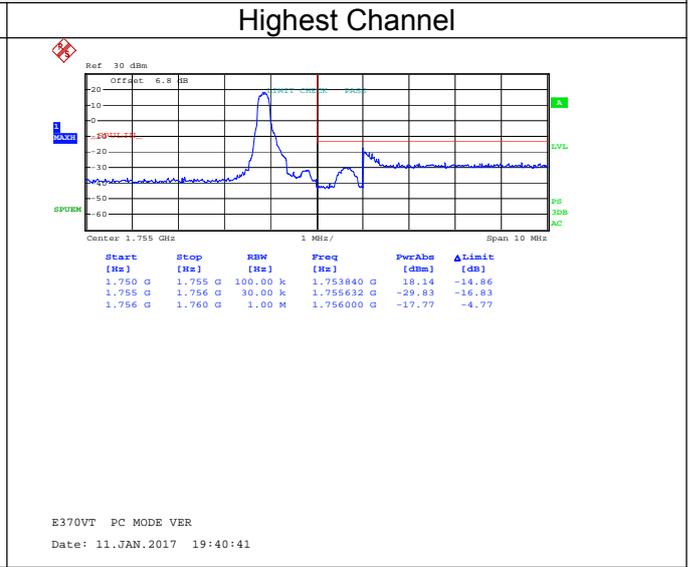
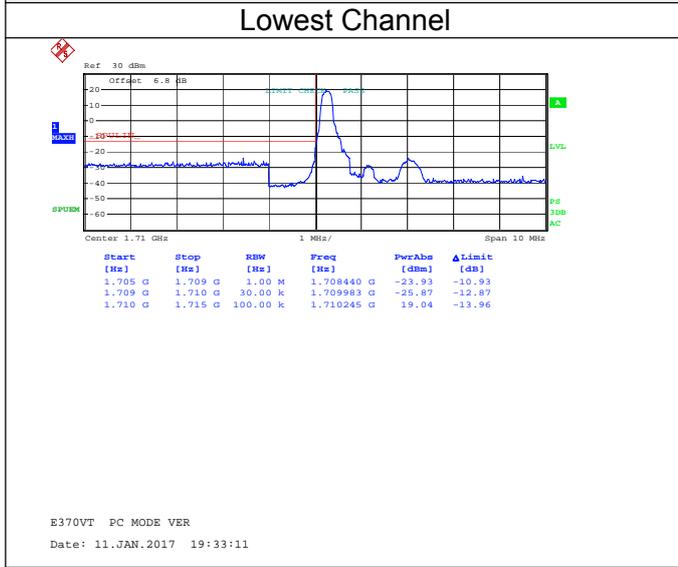
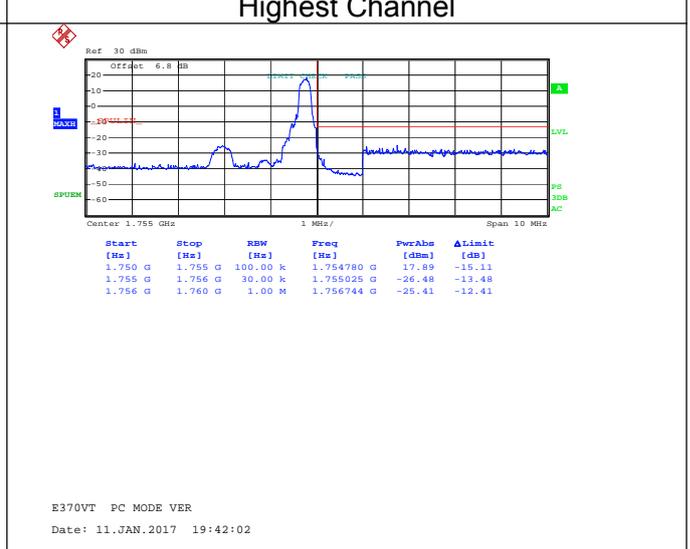
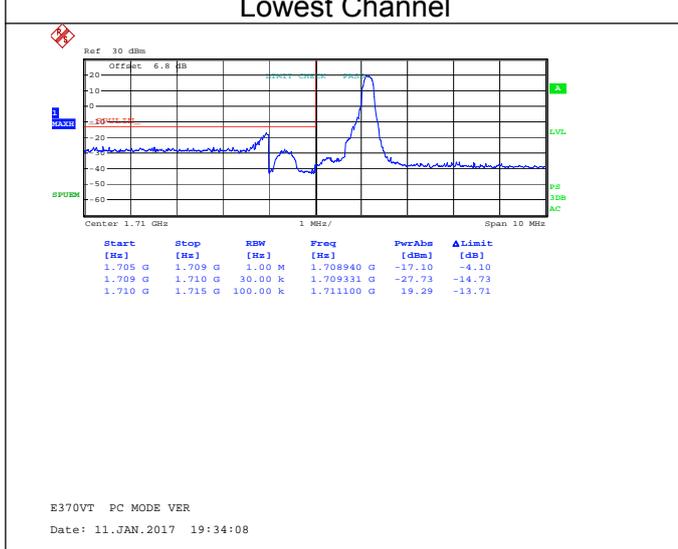


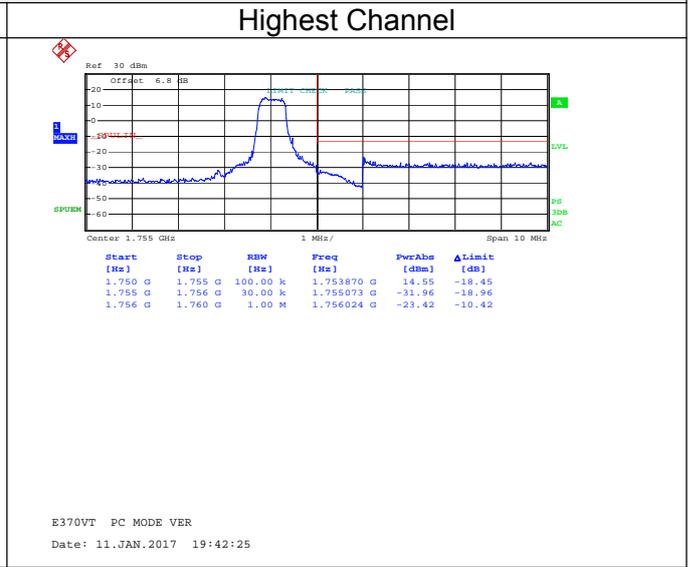
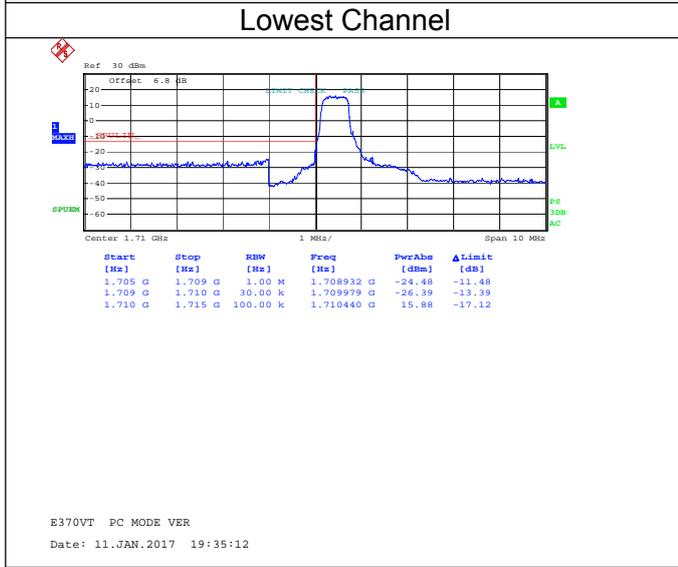
Band 4 – QPSK
1.4MHz – 1RB#0



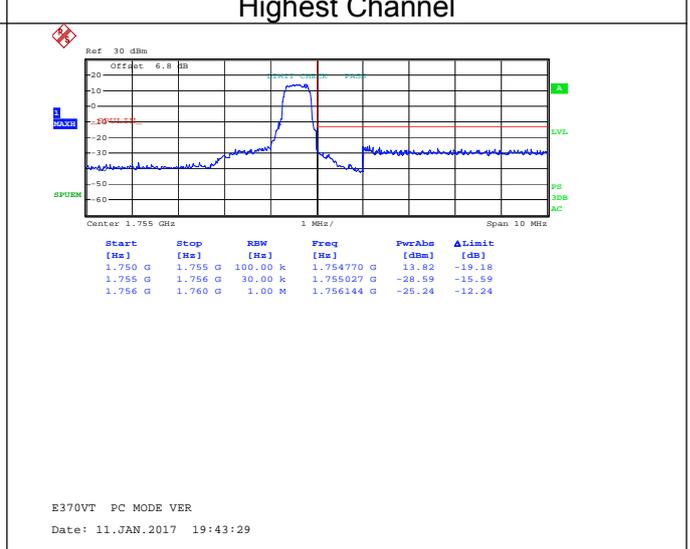
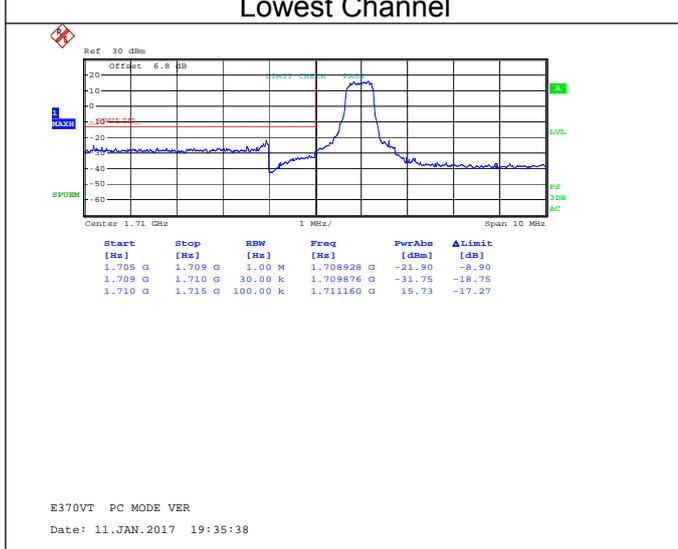
1.4MHz – 1RB#5

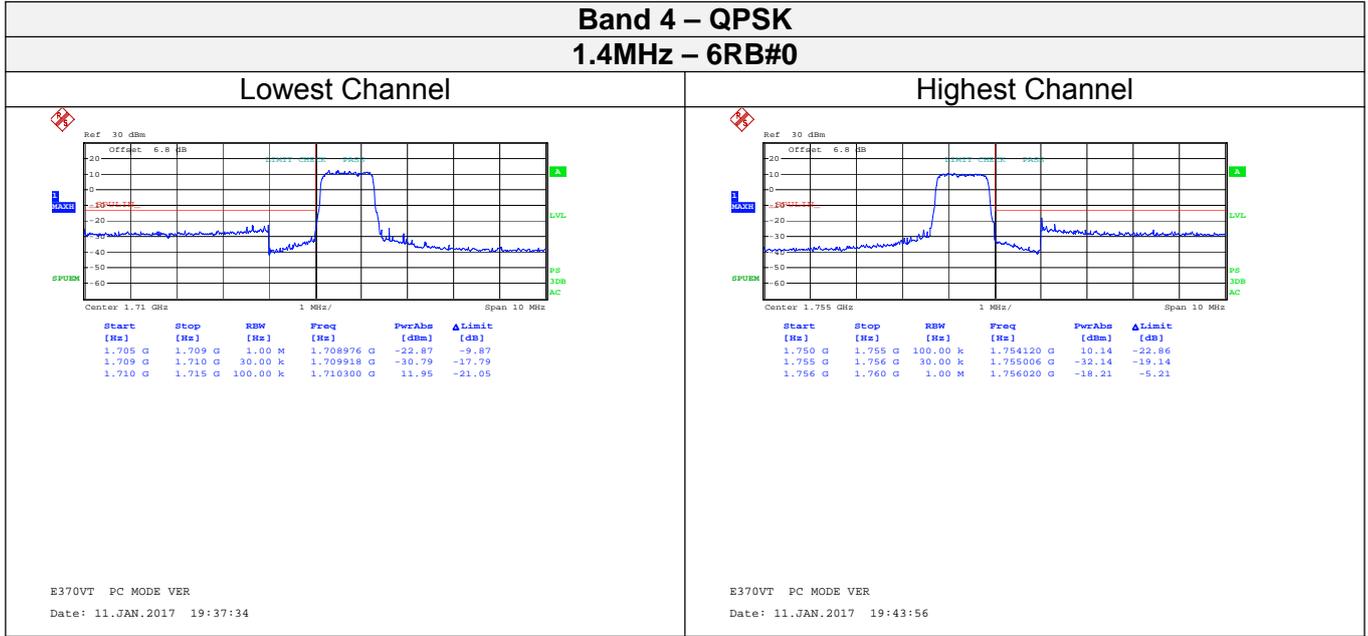


Band 4 – QPSK
1.4MHz – 3RB#0

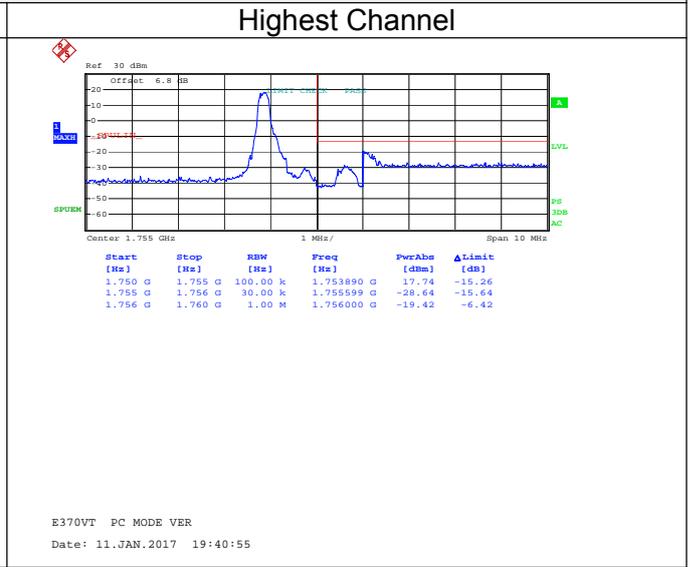
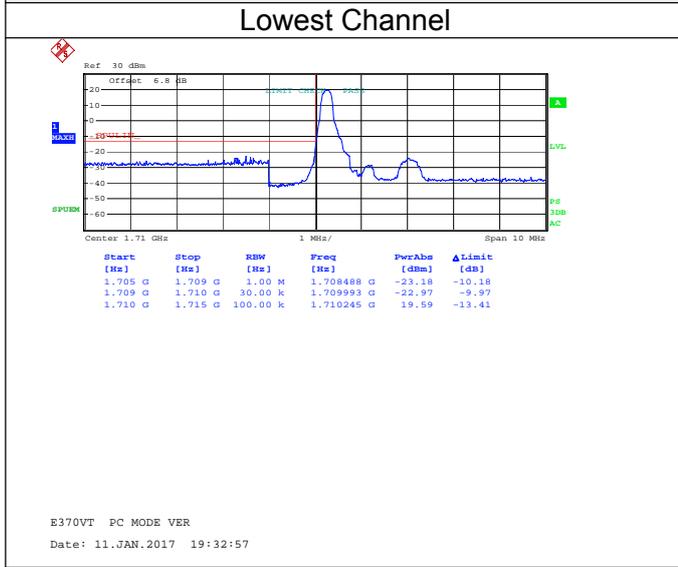


1.4MHz – 3RB#2

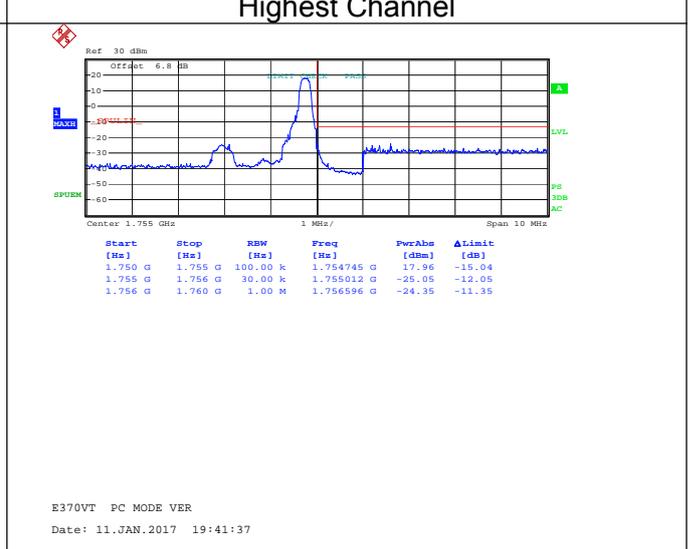
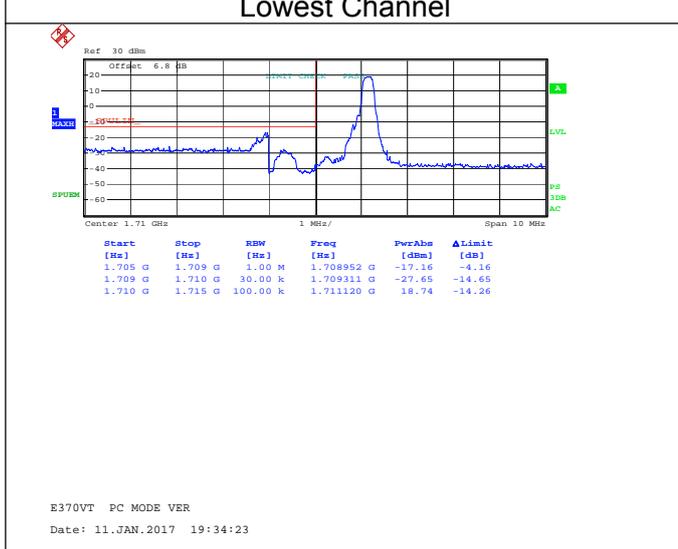




**Band 4 – 16QAM
1.4MHz – 1RB#0**

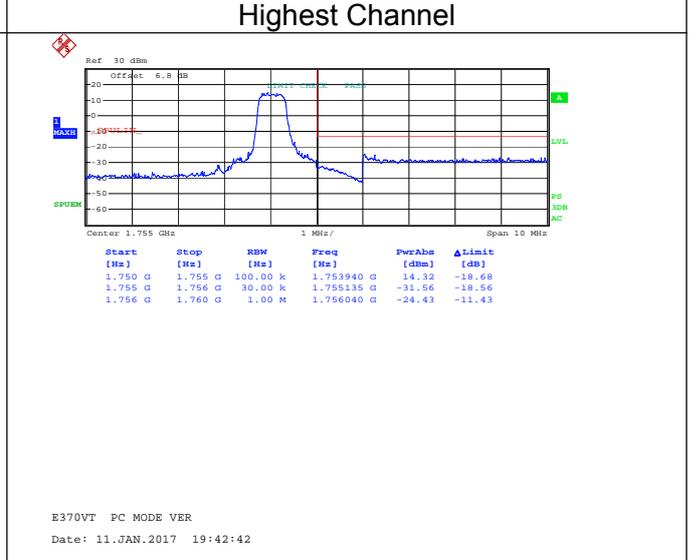
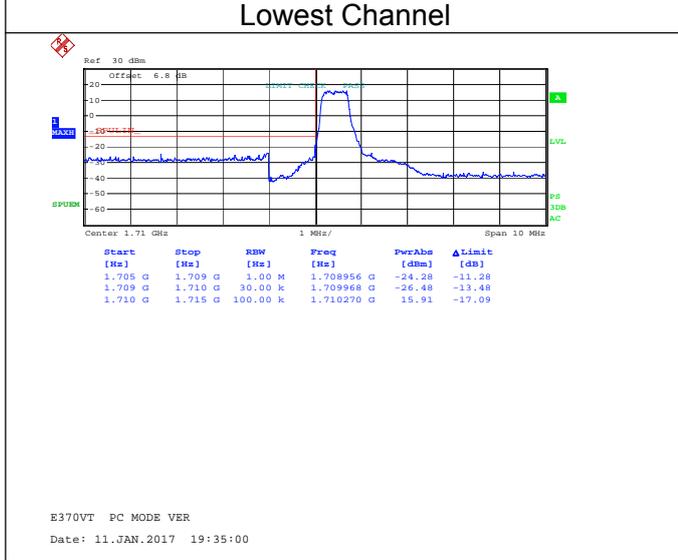


1.4MHz – 1RB#5

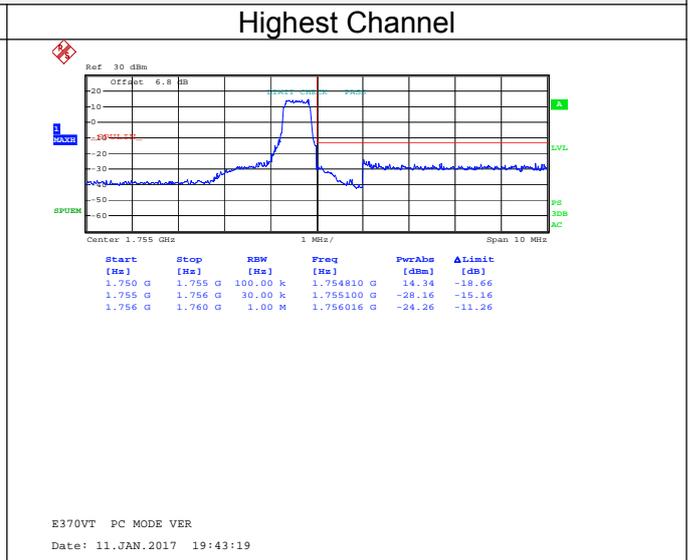
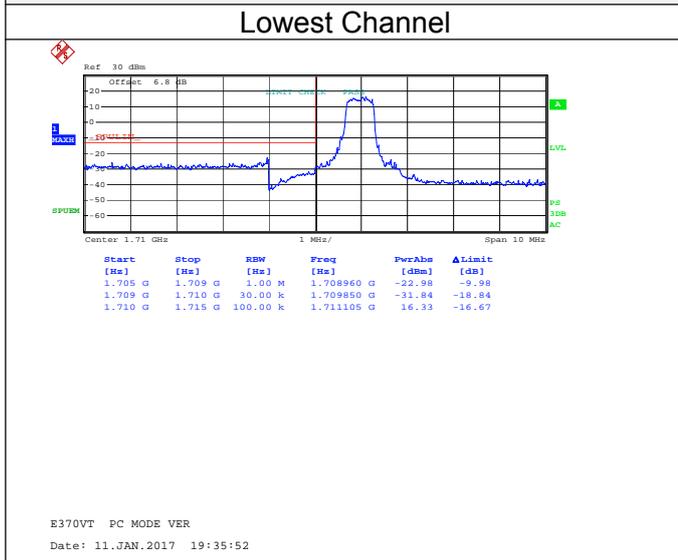


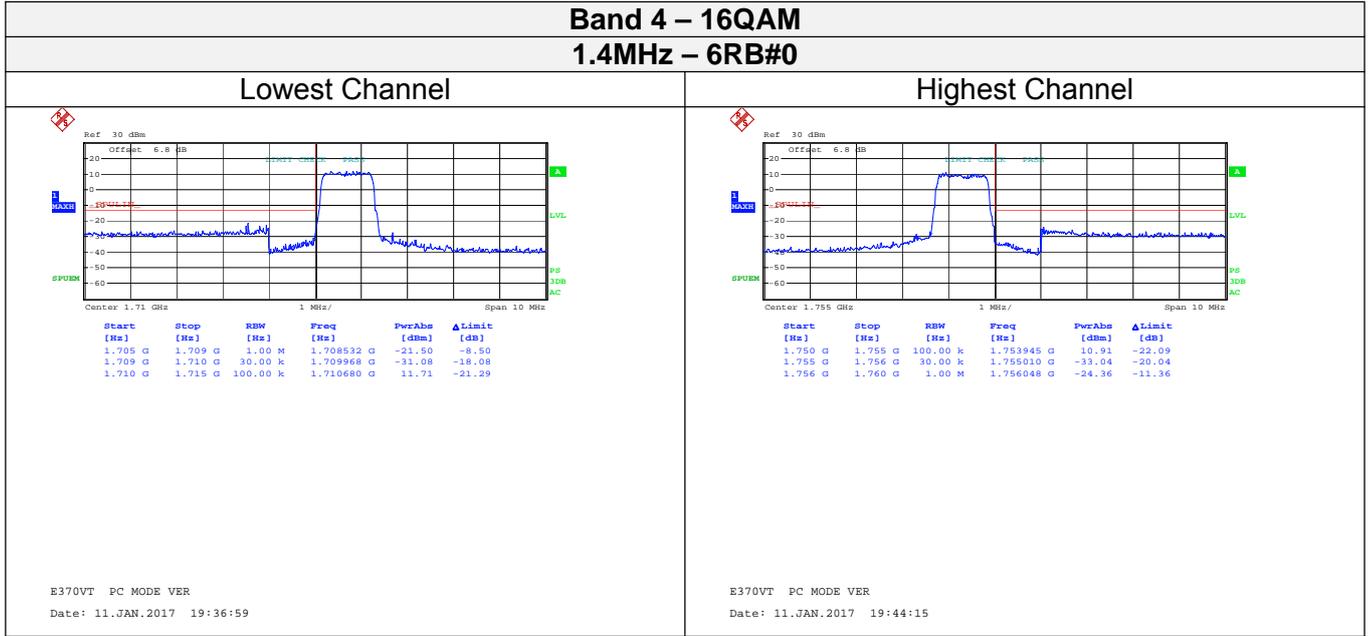
Band 4 – 16QAM

1.4MHz – 3RB#0

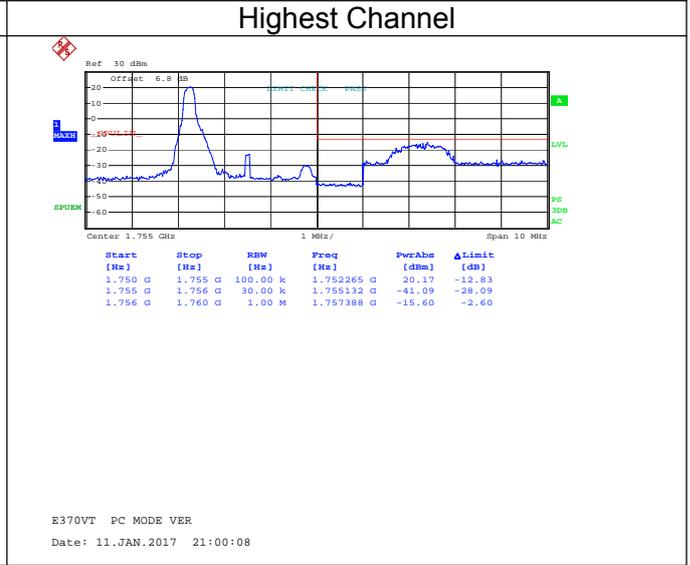
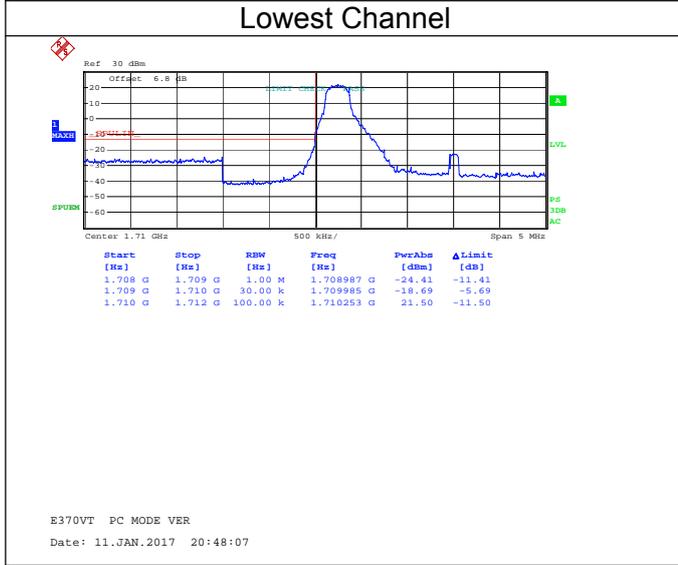


1.4MHz – 3RB#2

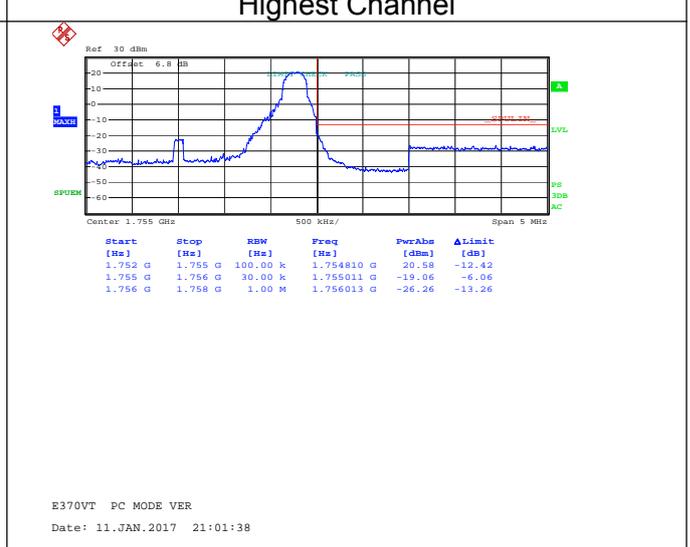
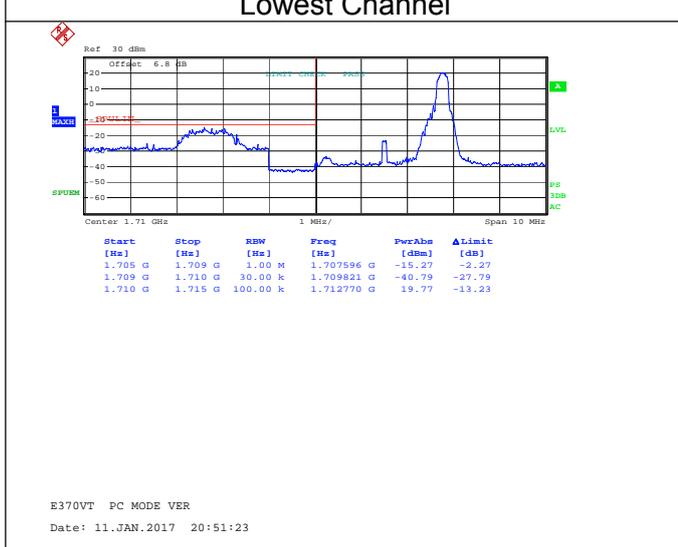




**Band 4 – QPSK
3MHz – 1RB#0**

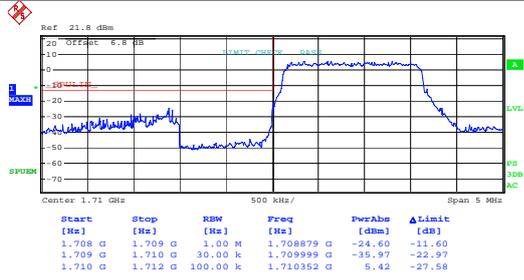


3MHz – 1RB#14



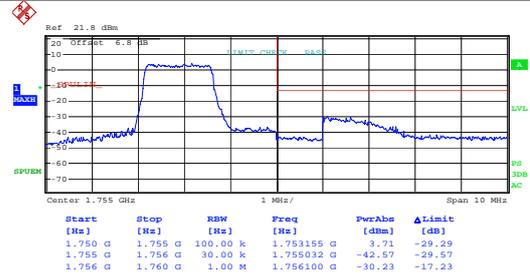
**Band 4 – QPSK
3MHz – 8RB#0**

Lowest Channel



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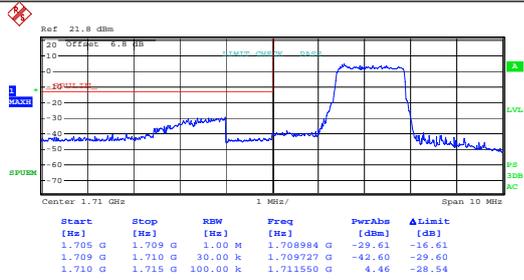
Highest Channel



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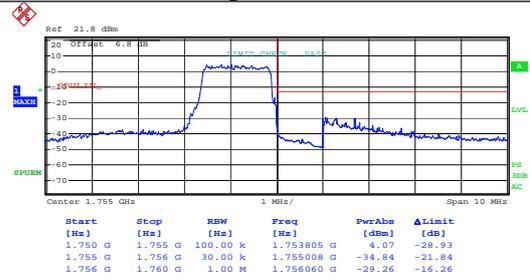
3MHz – 8RB#7

Lowest Channel

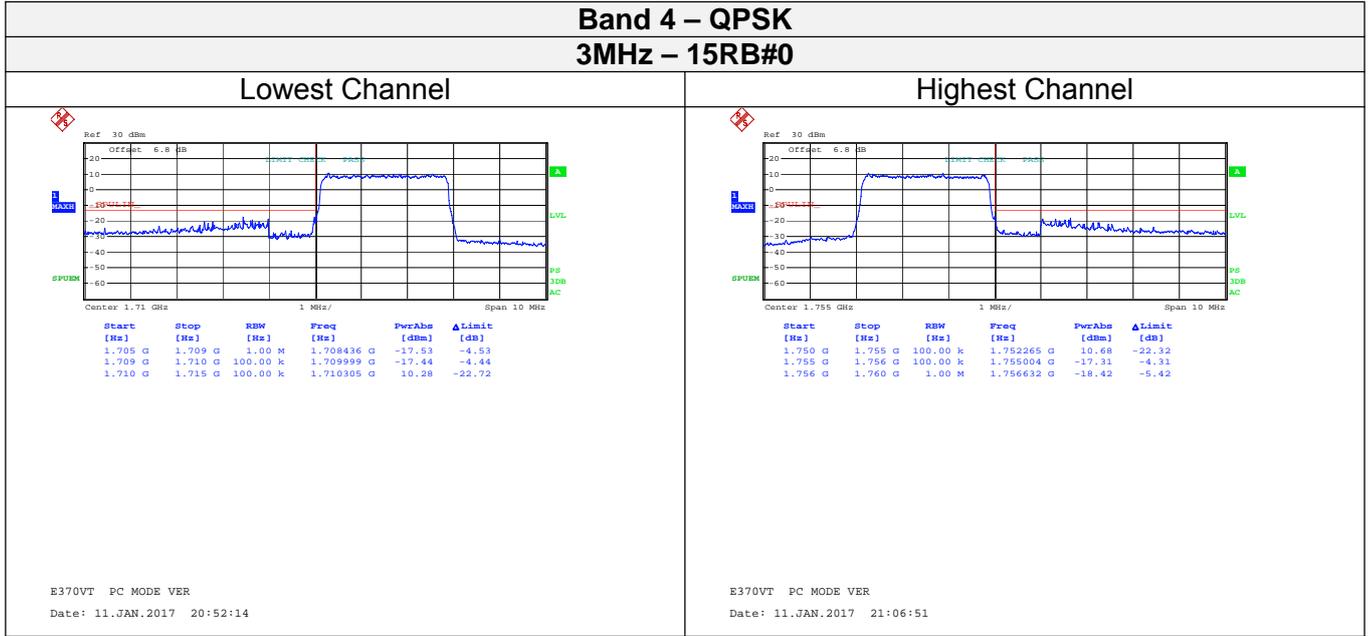


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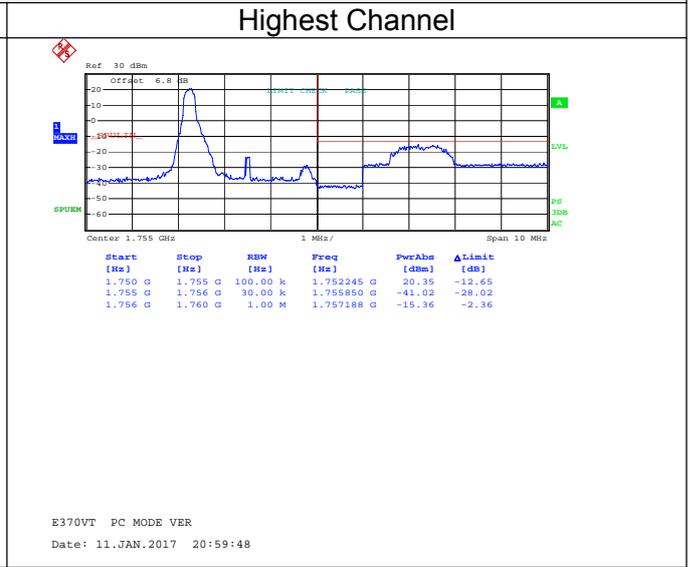
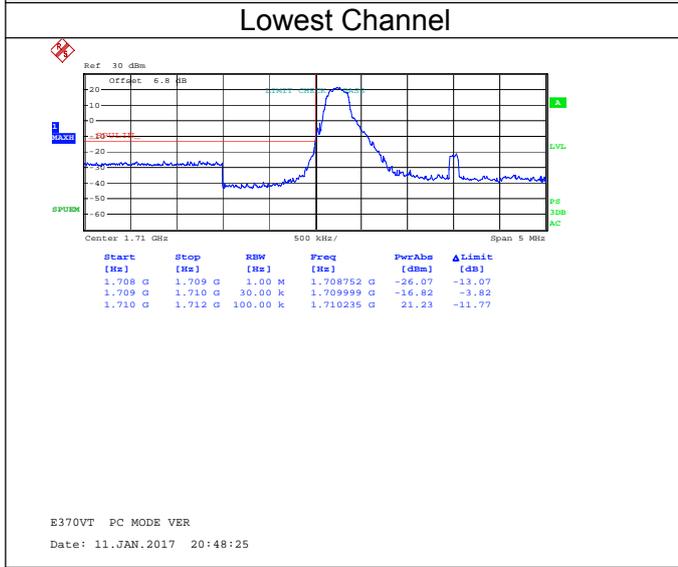
Highest Channel



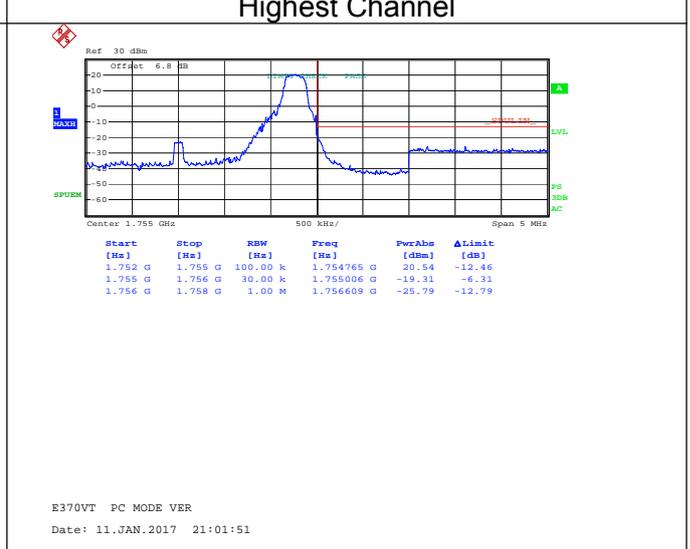
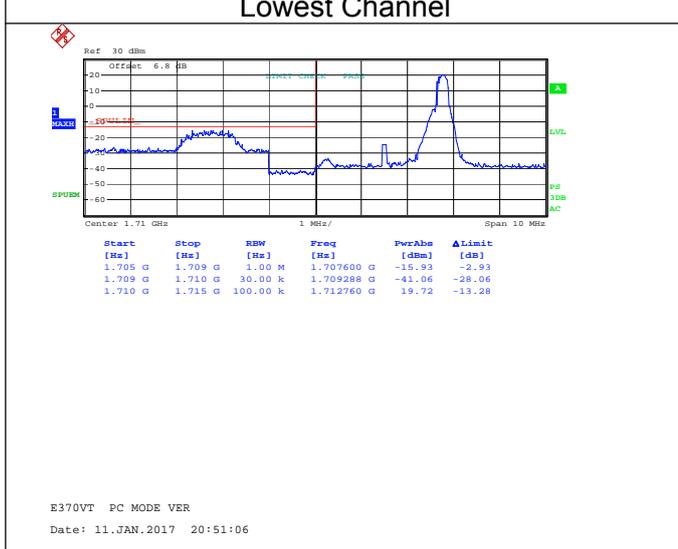
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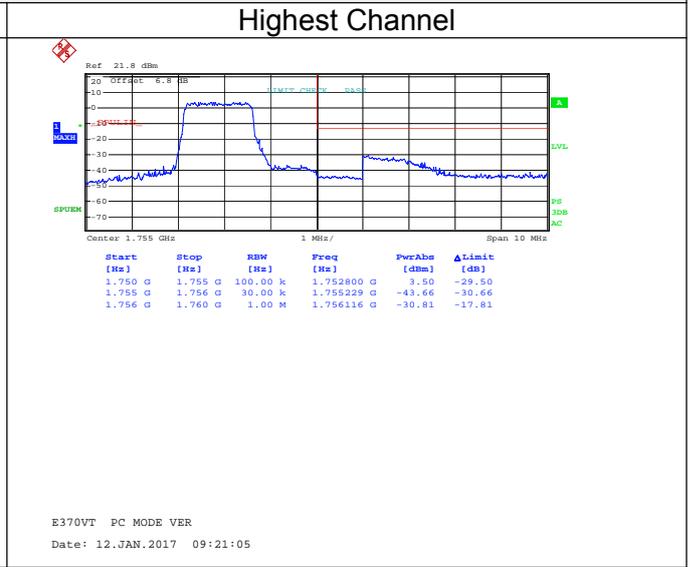
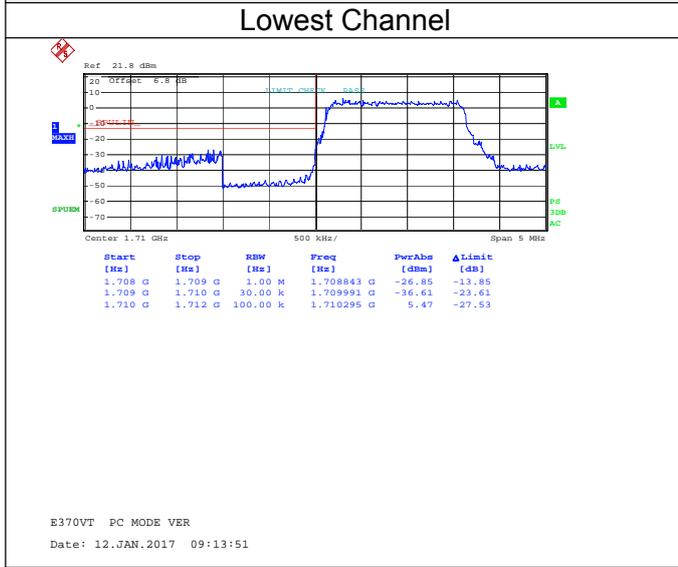
**Band 4 – 16QAM
3MHz – 1RB#0**



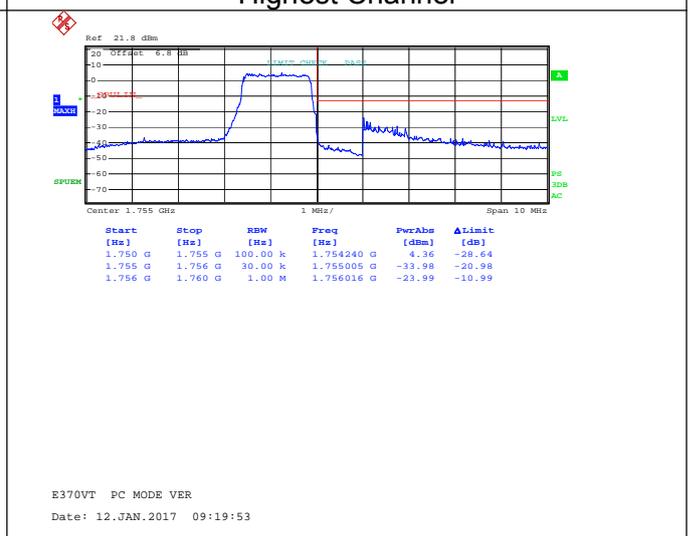
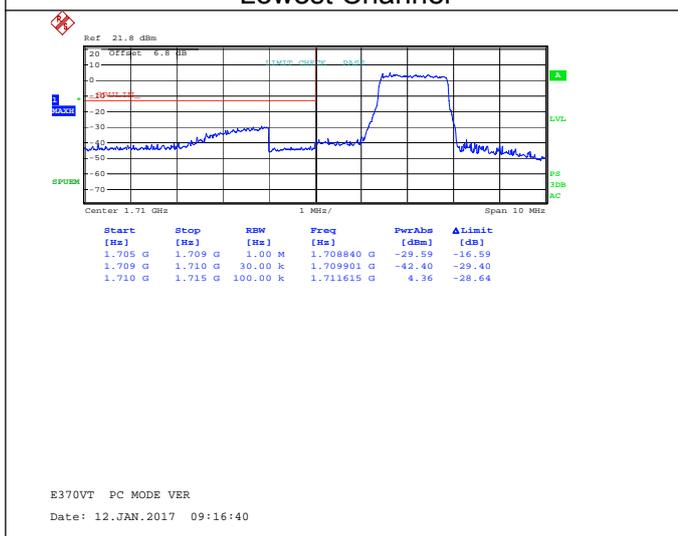
3MHz – 1RB#14

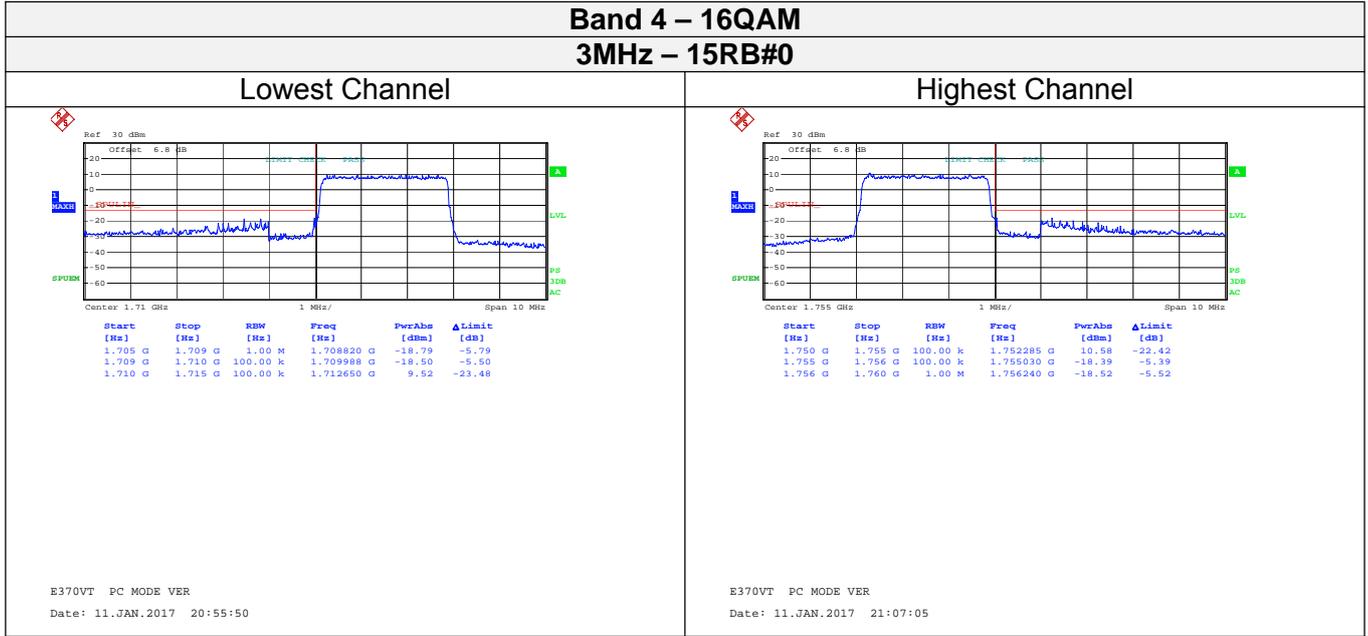


**Band 4 – 16QAM
3MHz – 8RB#0**

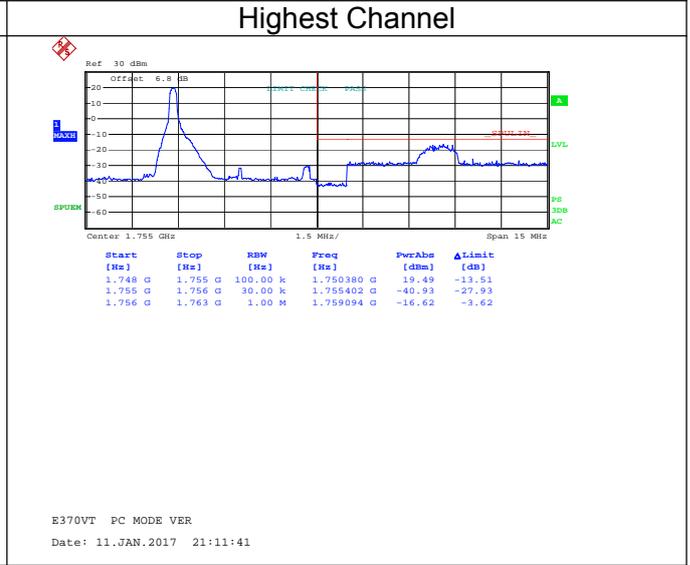
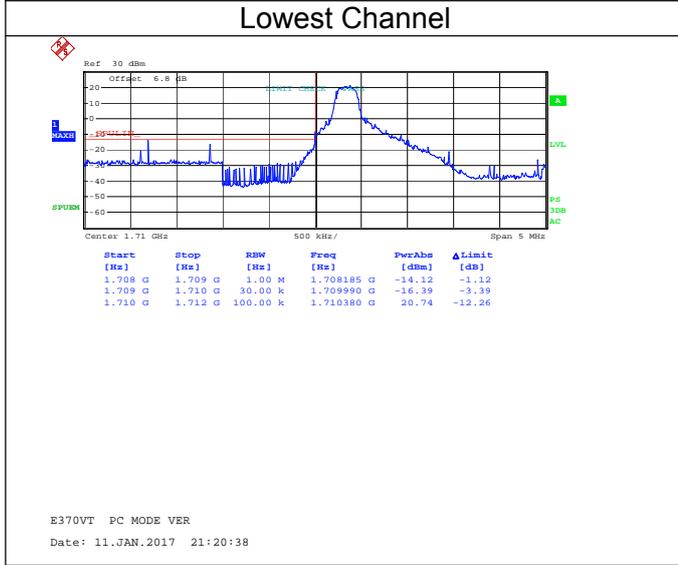


3MHz – 8RB#7

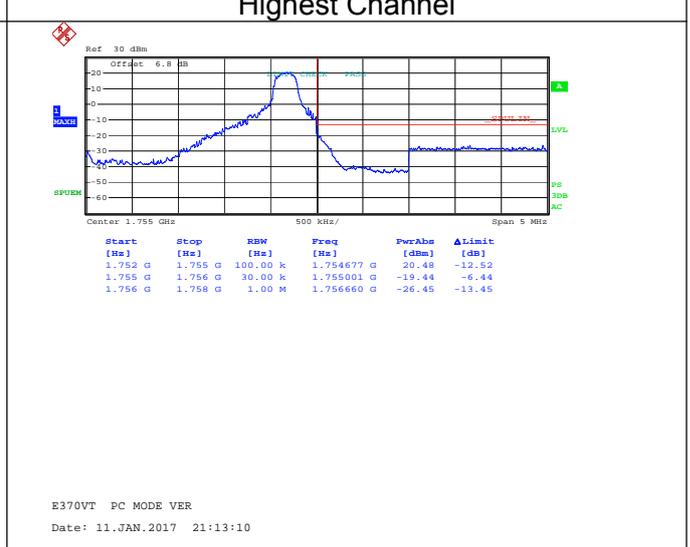
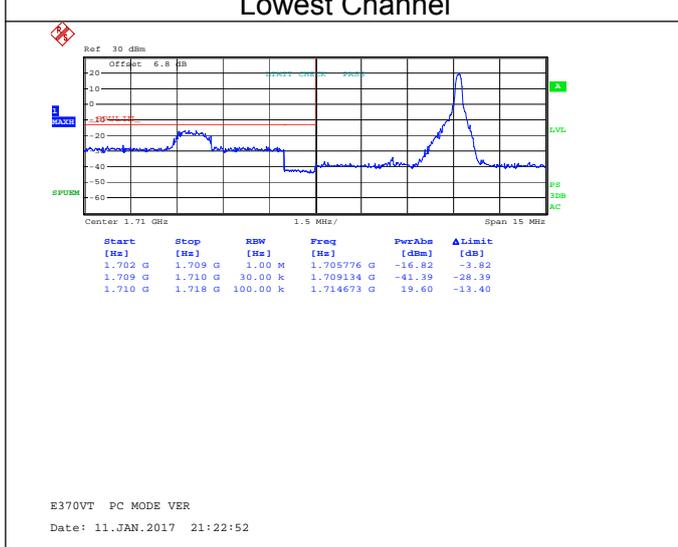




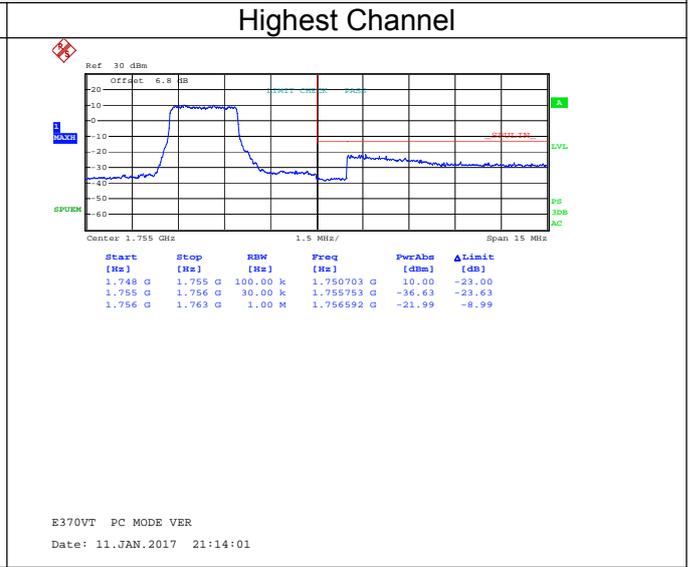
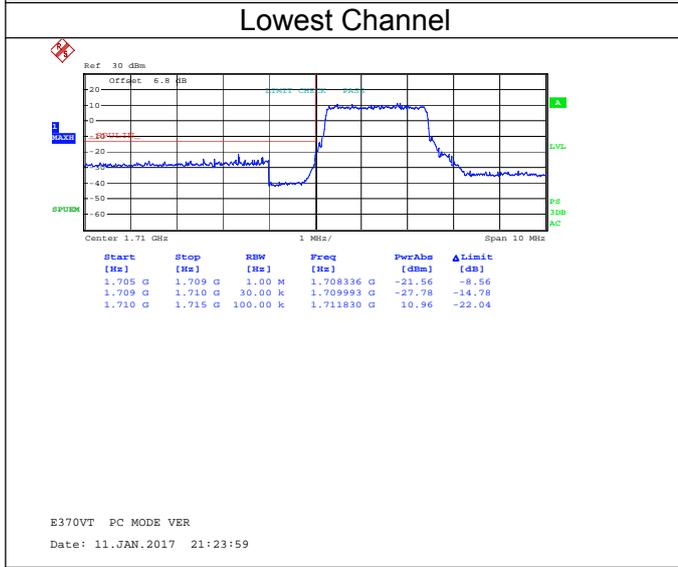
**Band 4 – QPSK
5MHz – 1RB#0**



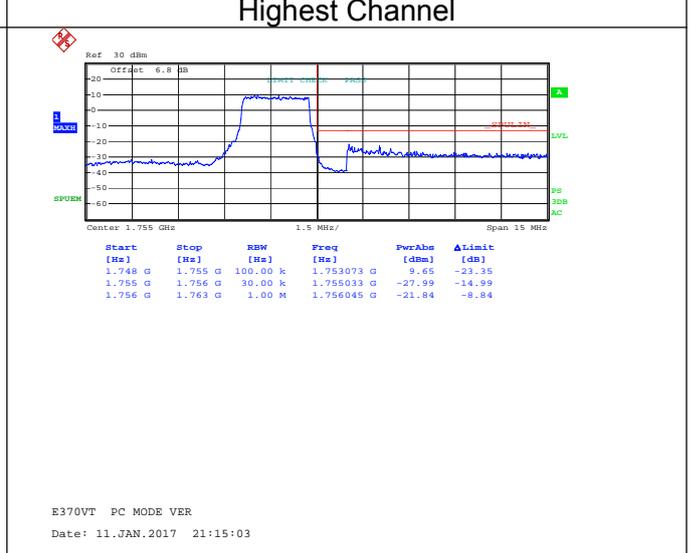
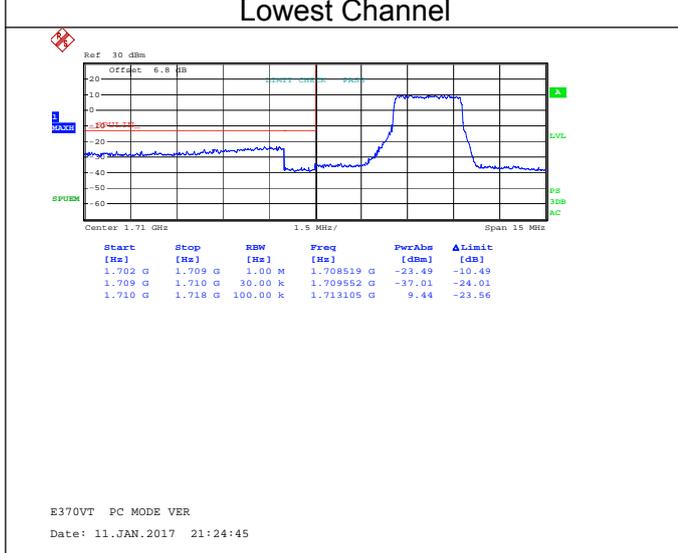
5MHz – 1RB#24

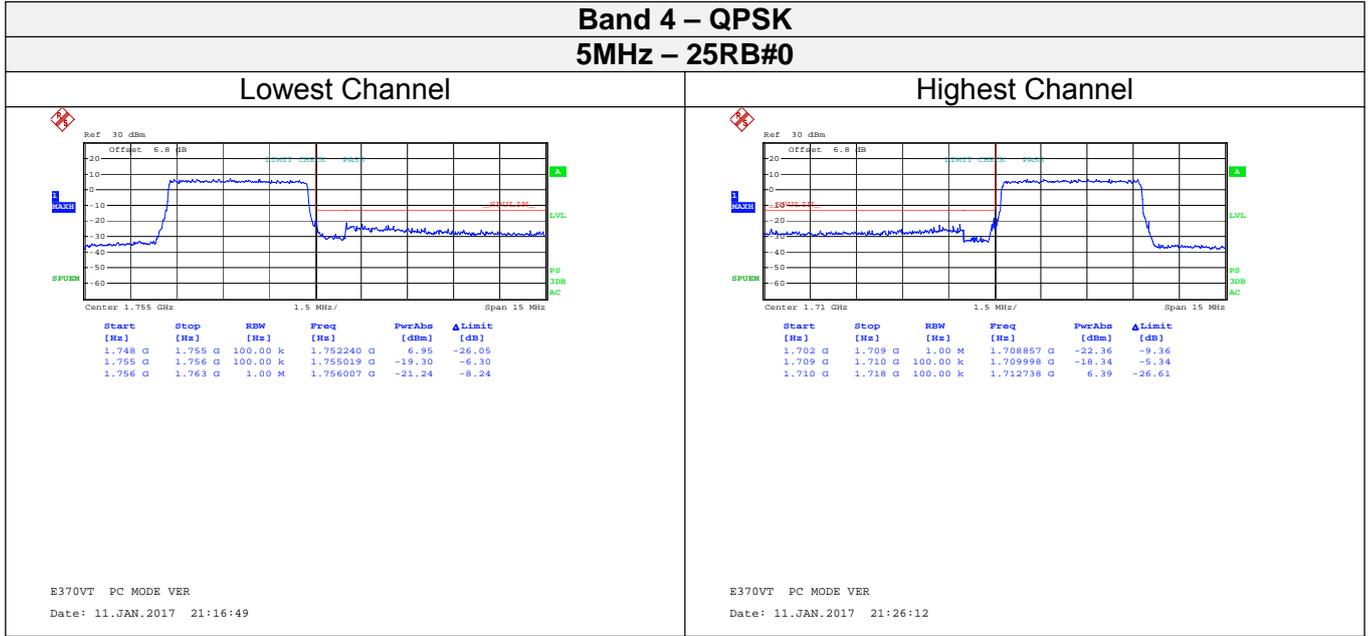


**Band 4 – QPSK
5MHz – 12RB#0**

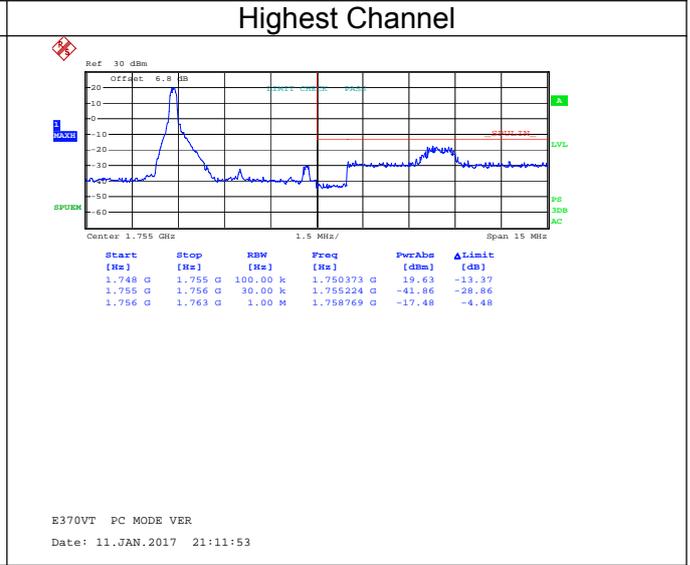
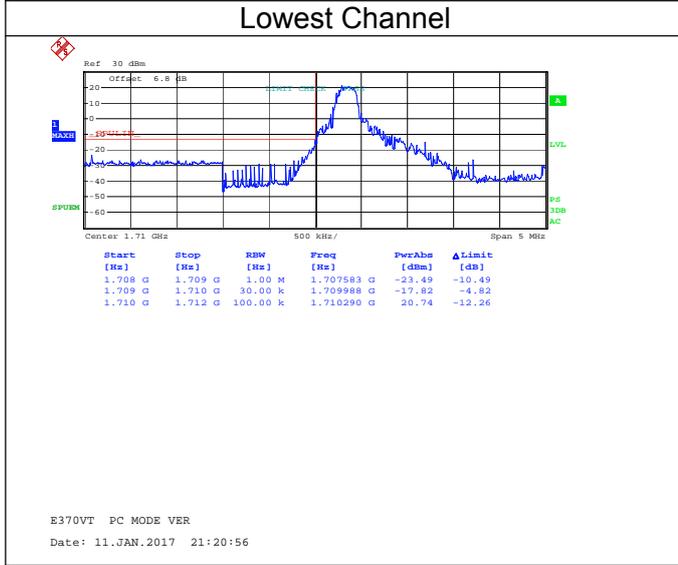


5MHz – 12RB#11

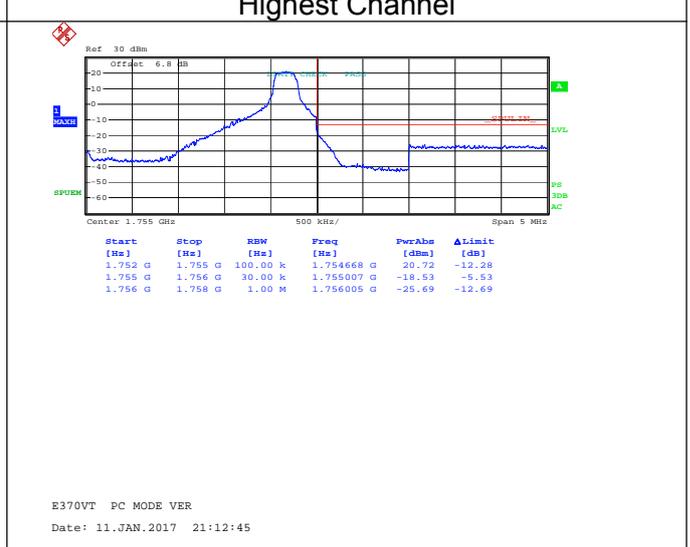
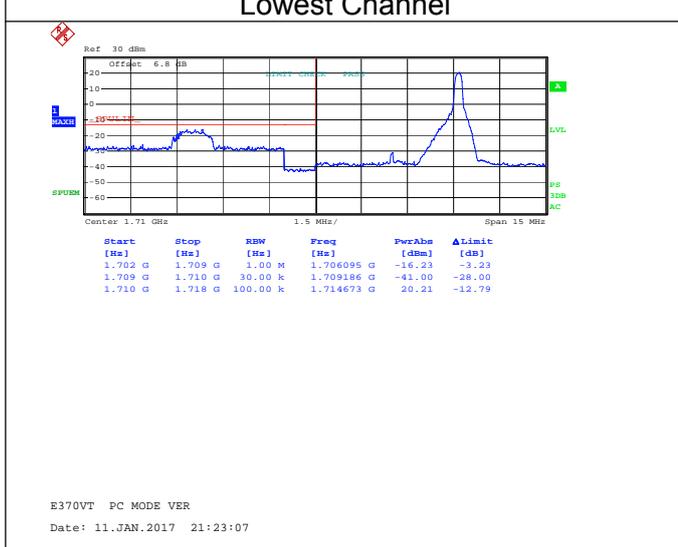




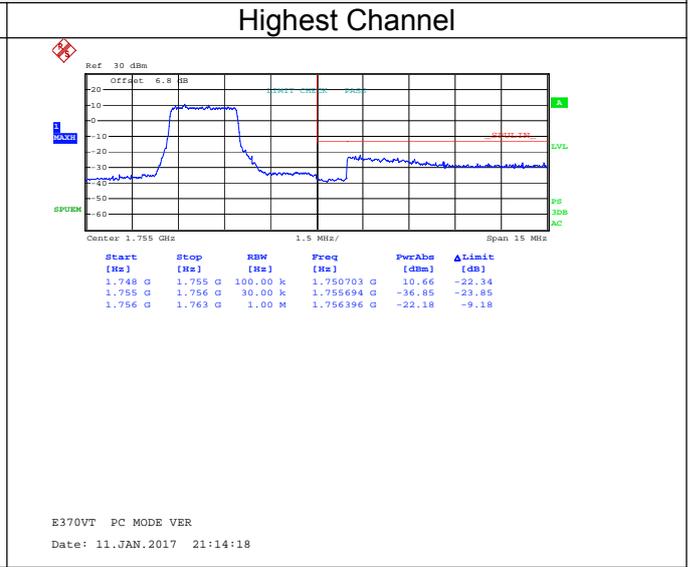
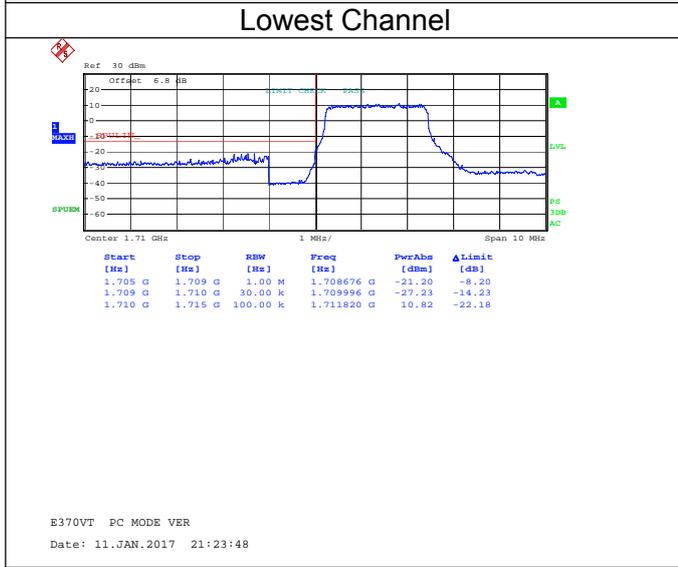
**Band 4 – 16QAM
5MHz – 1RB#0**



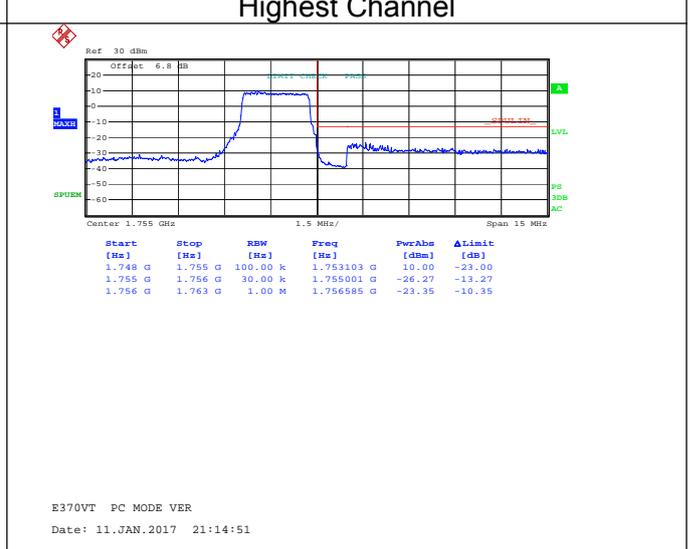
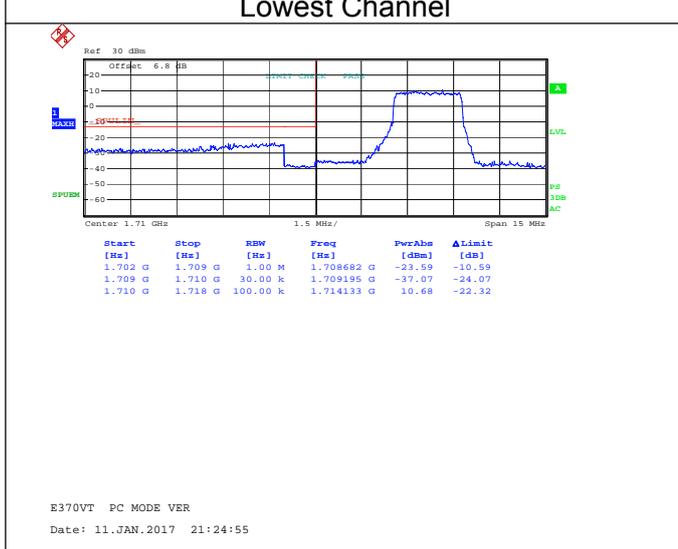
5MHz – 1RB#24

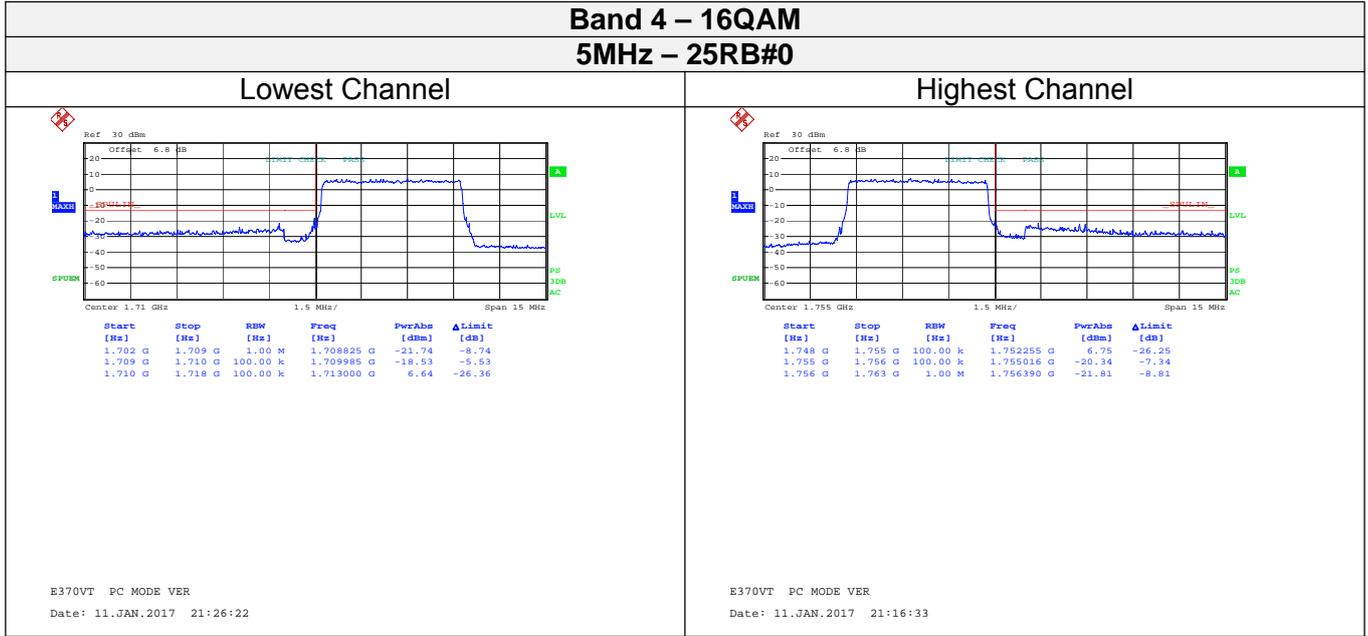


**Band 4 – 16QAM
5MHz – 12RB#0**

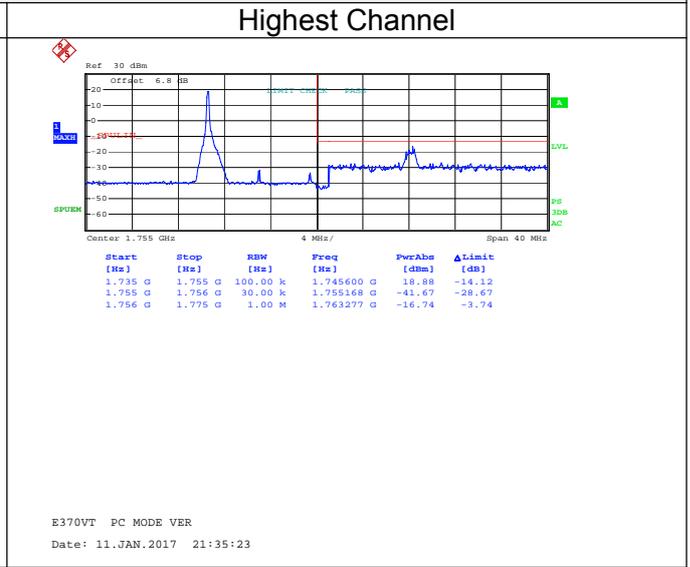
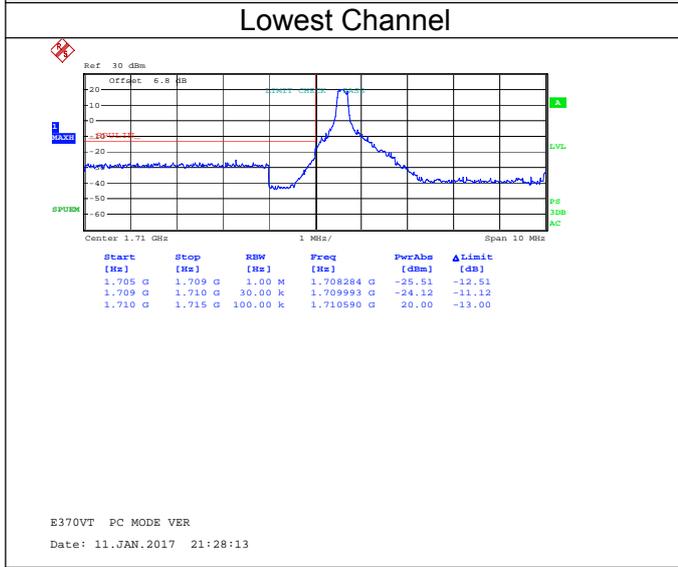


5MHz – 12RB#11

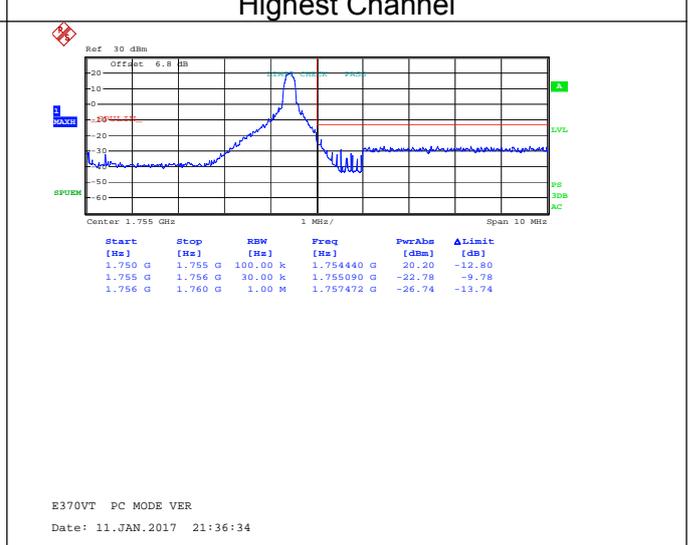
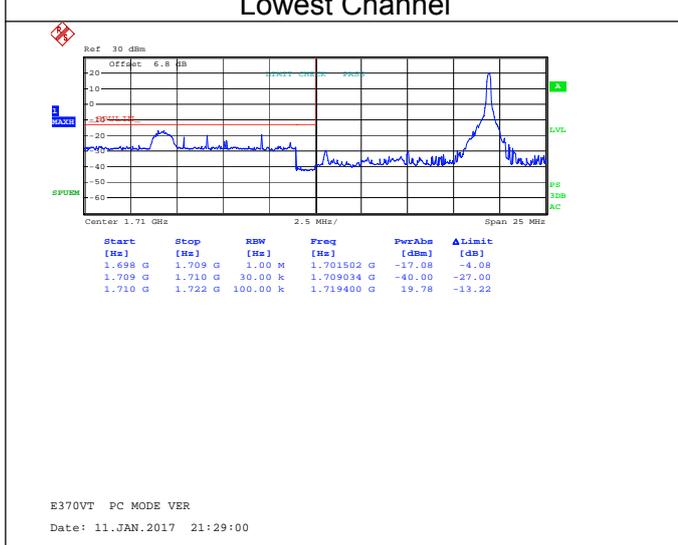




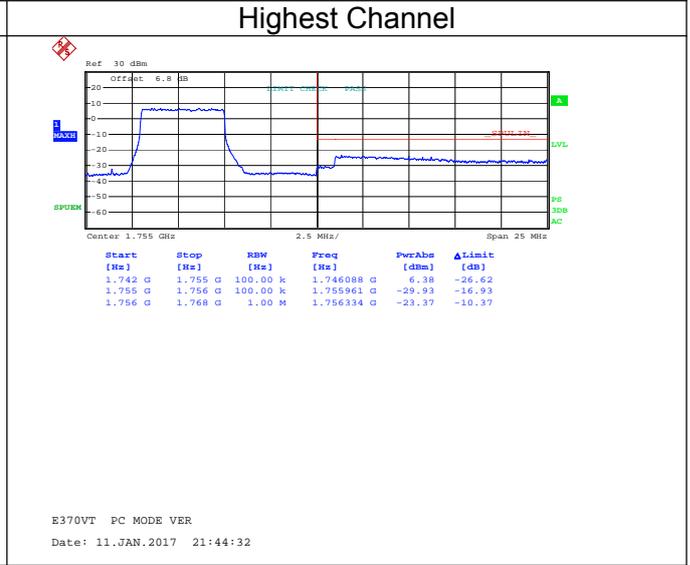
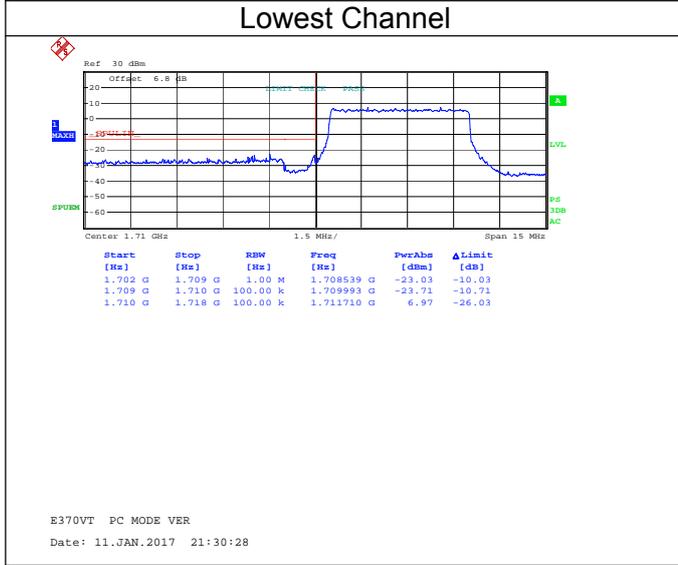
**Band 4 – QPSK
10MHz – 1RB#0**



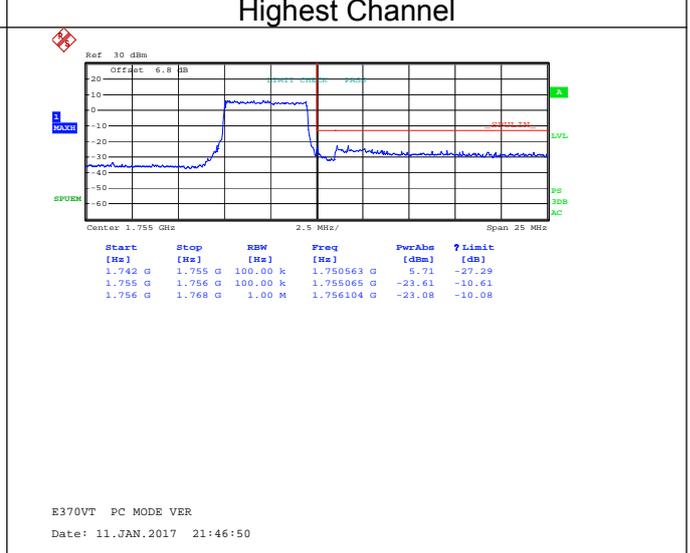
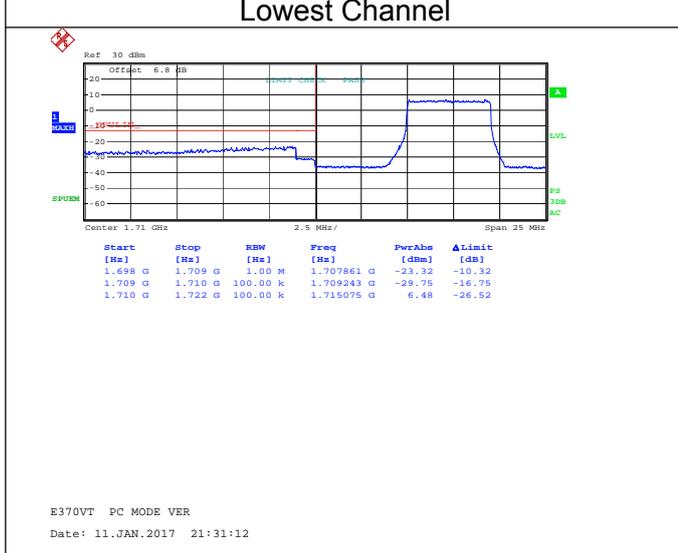
10MHz – 1RB#49

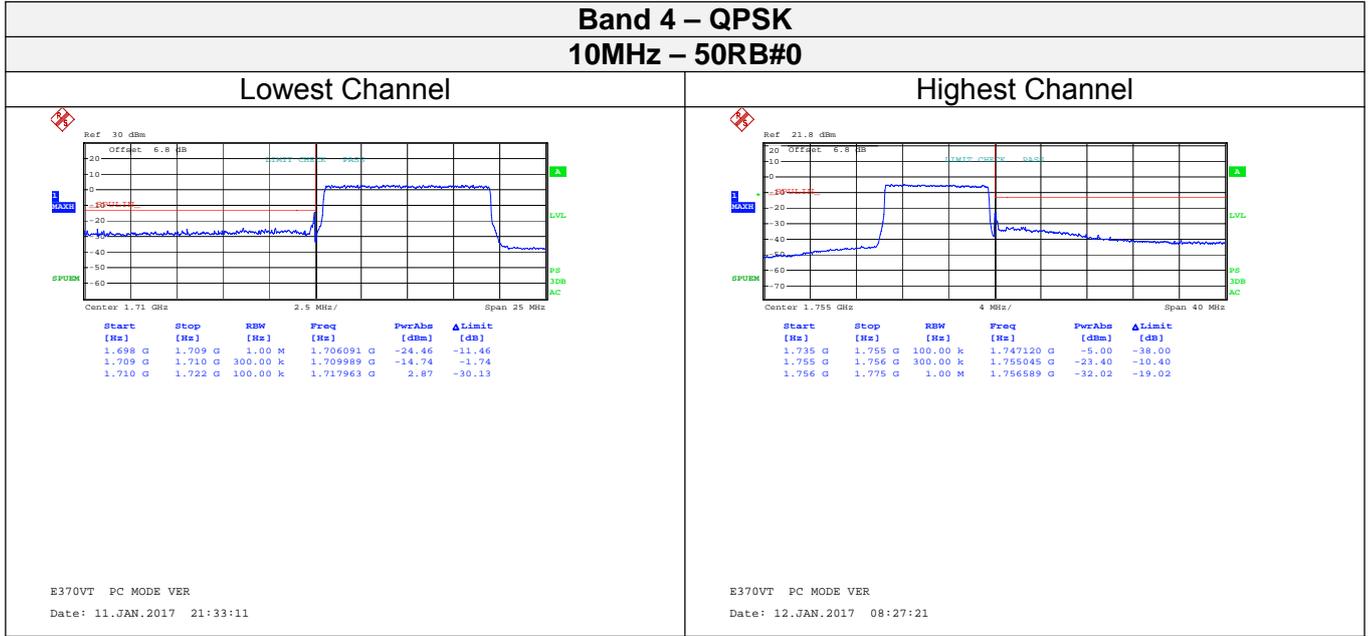


**Band 4 – QPSK
10MHz – 25RB#0**

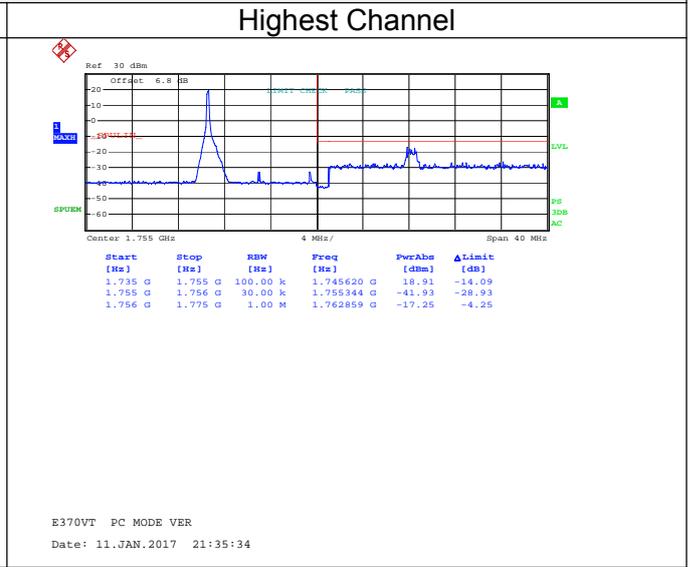
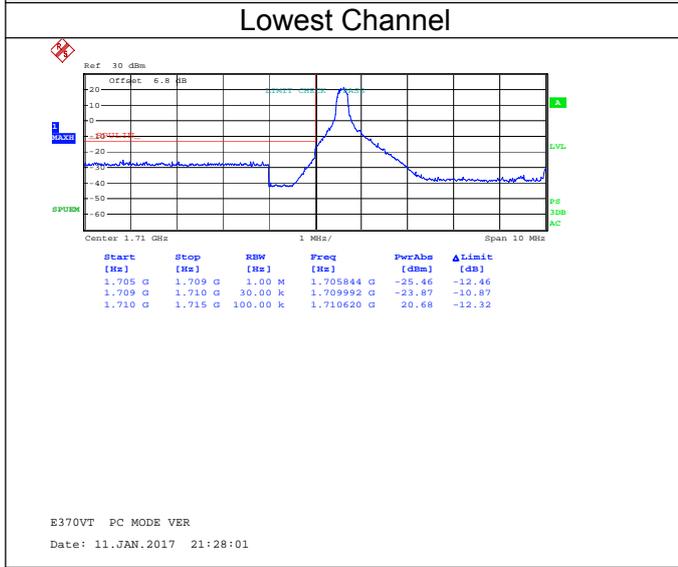


10MHz – 25RB#24

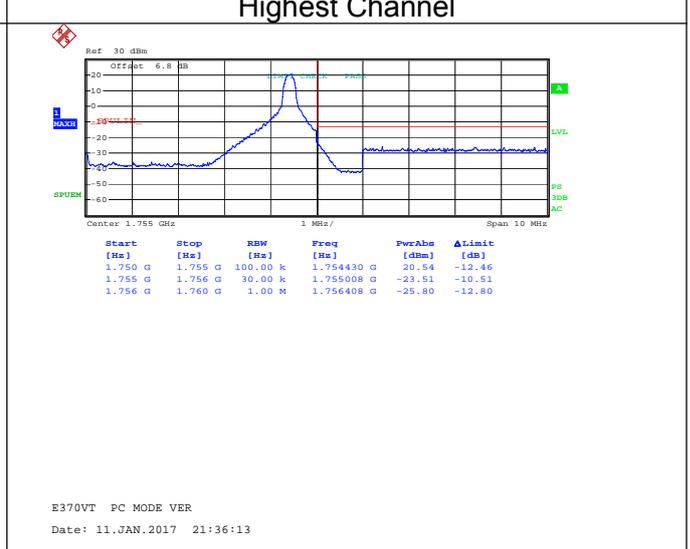
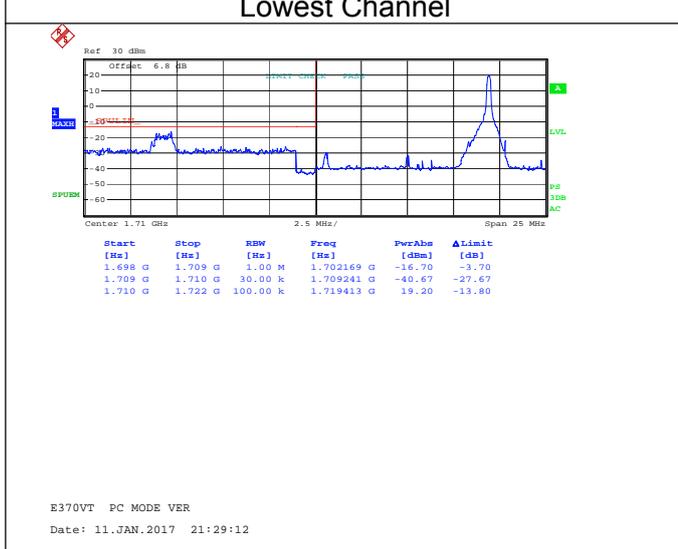




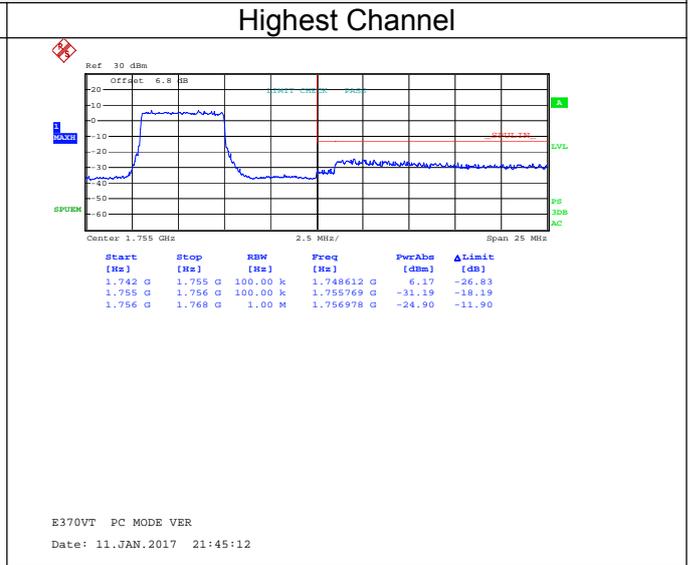
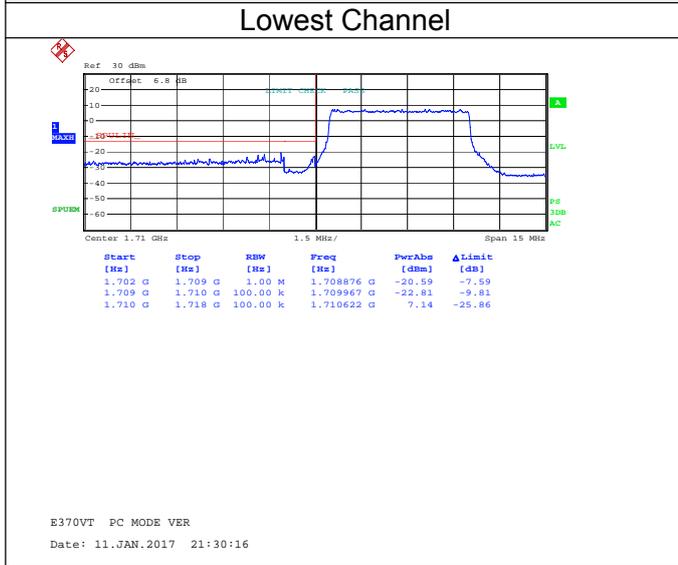
**Band 4 – 16QAM
10MHz – 1RB#0**



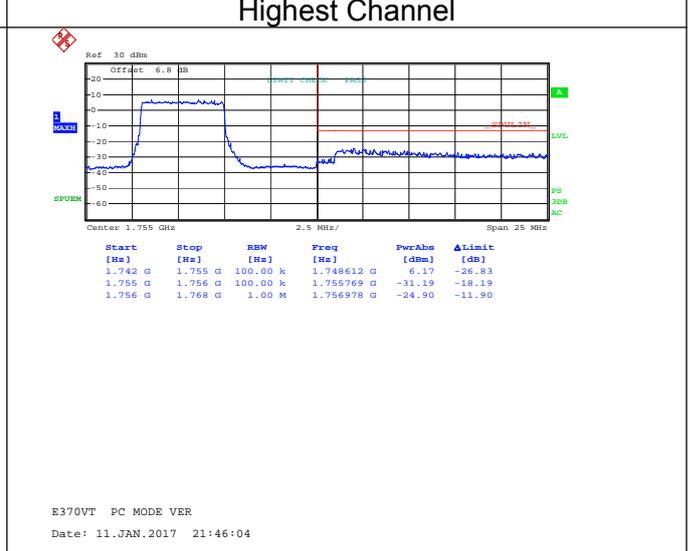
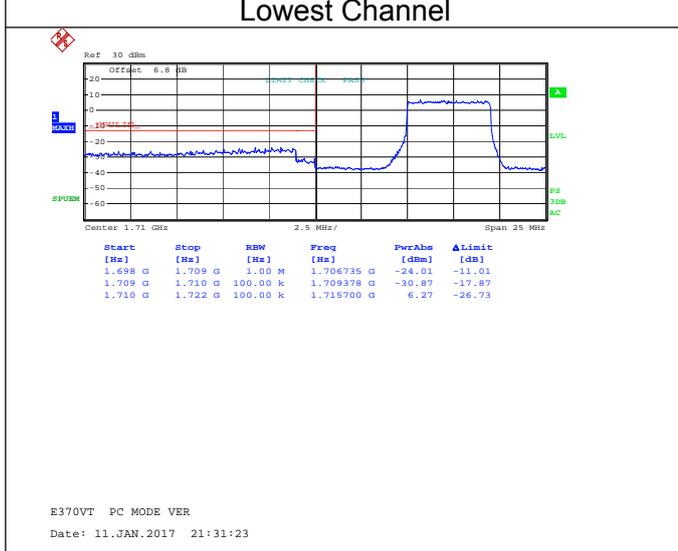
10MHz – 1RB#49

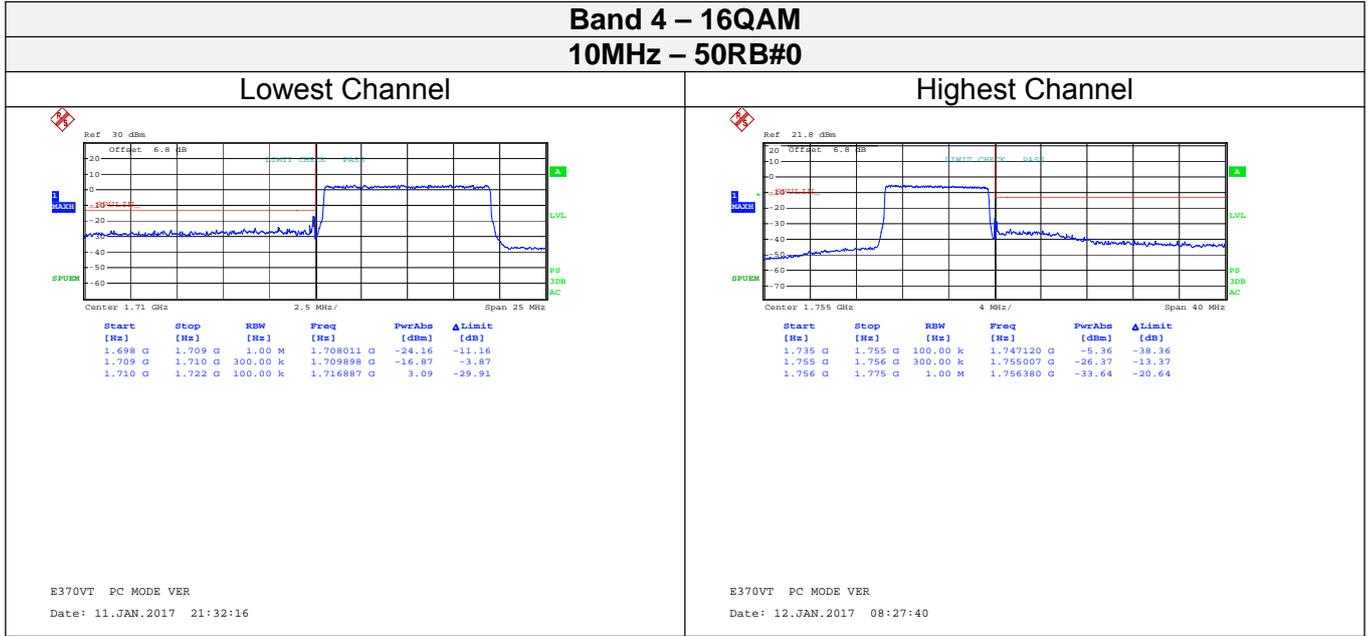


**Band 4 – 16QAM
10MHz – 25RB#0**

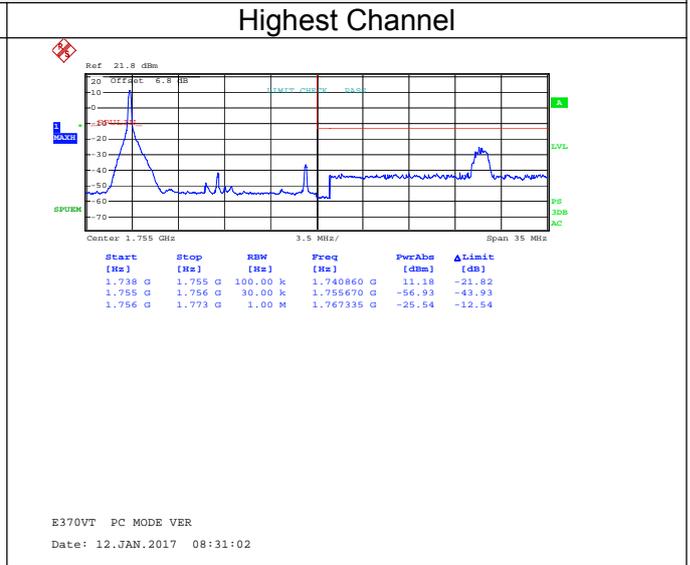
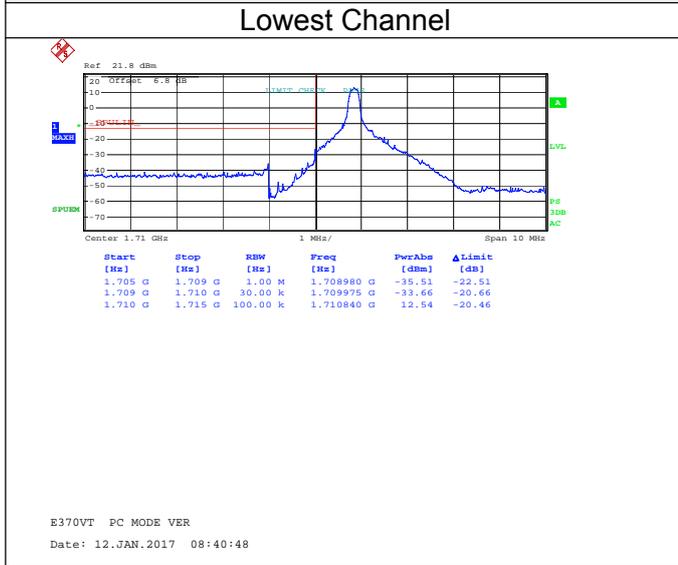


10MHz – 25RB#24

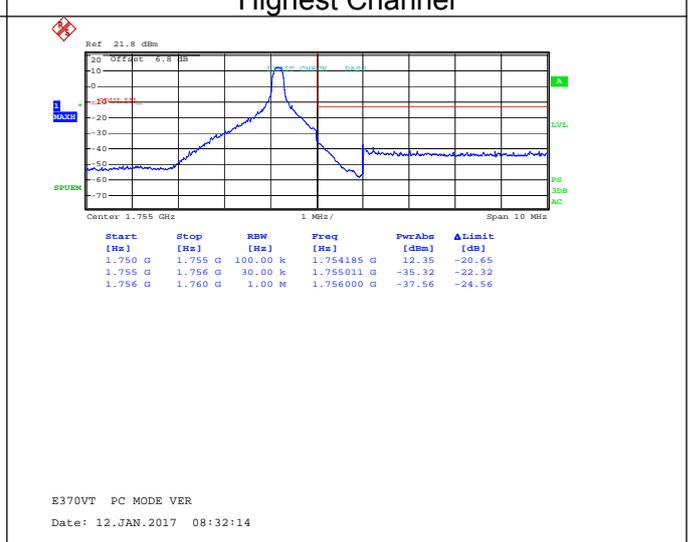
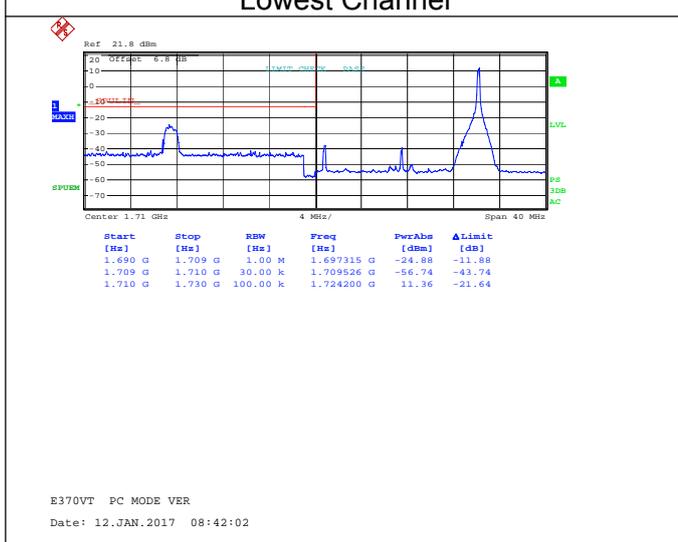




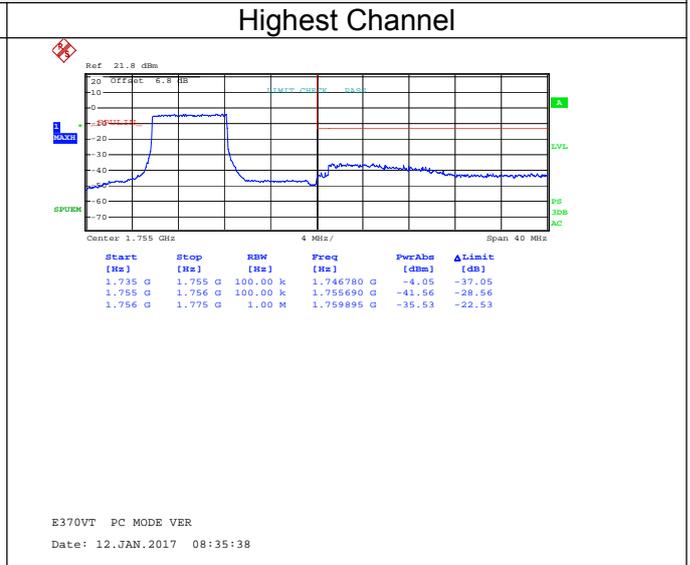
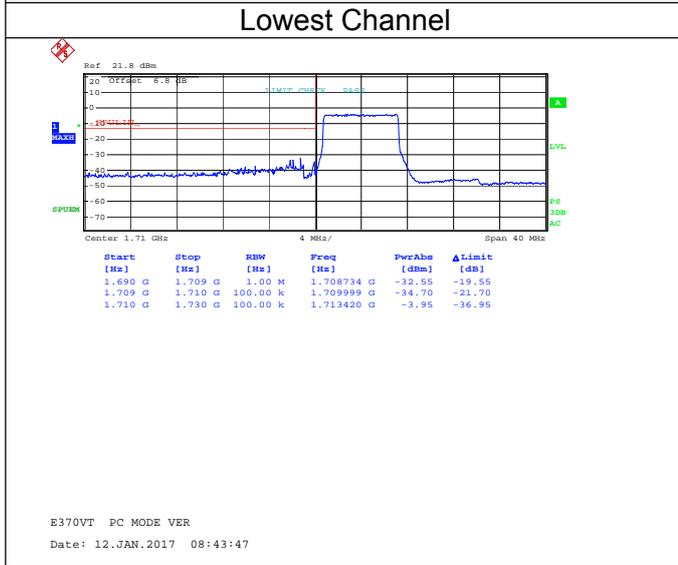
**Band 4 – QPSK
15MHz – 1RB#0**



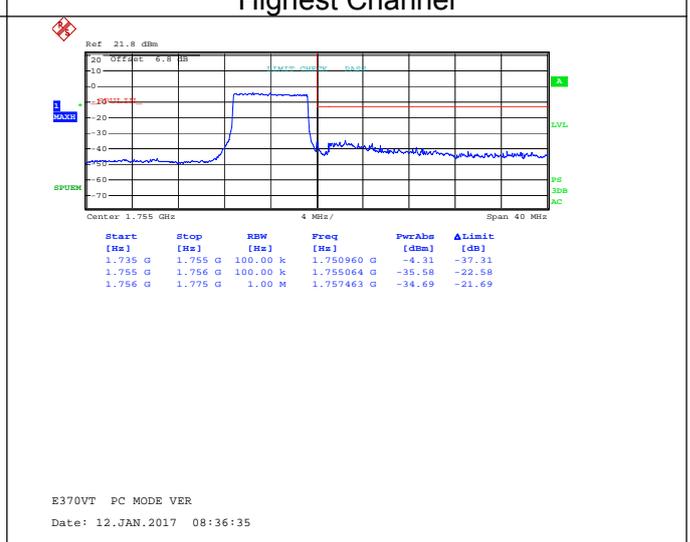
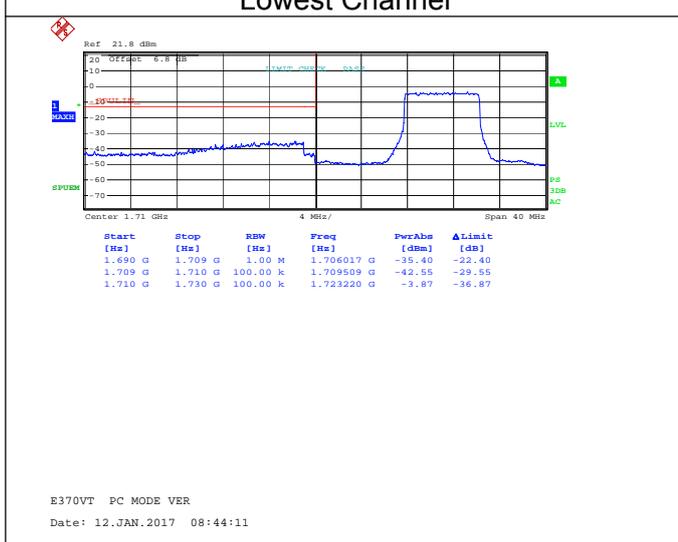
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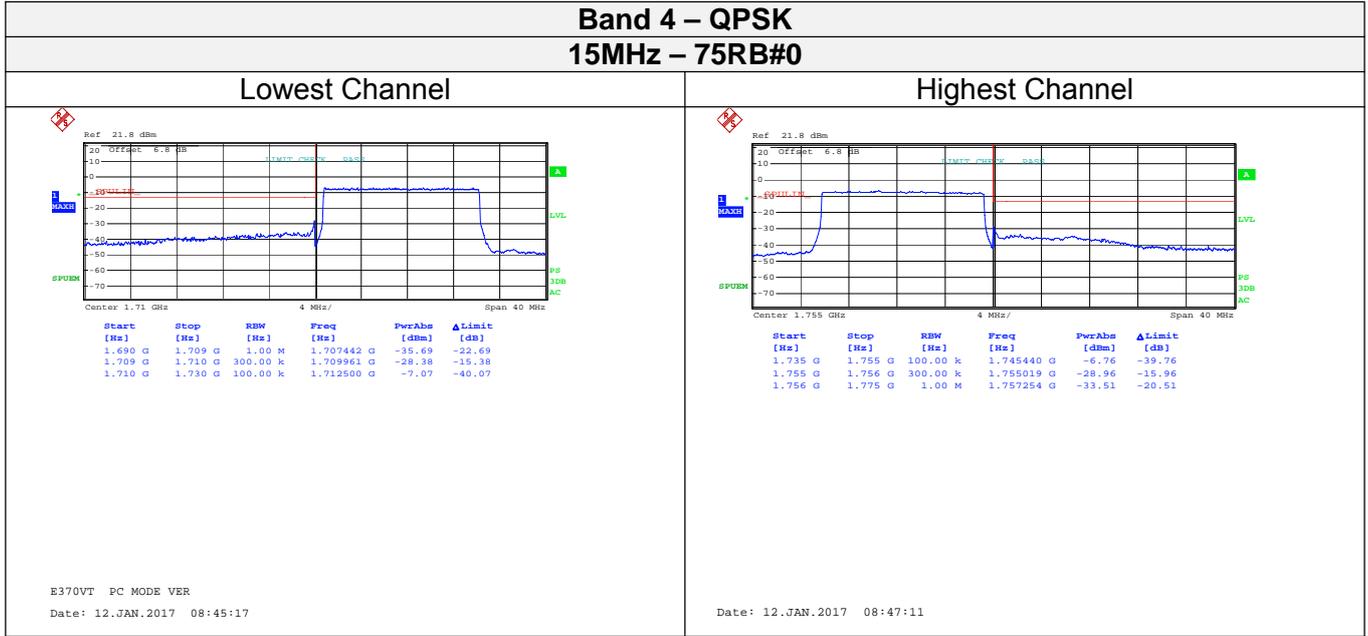


**Band 4 – QPSK
15MHz – 36RB#0**

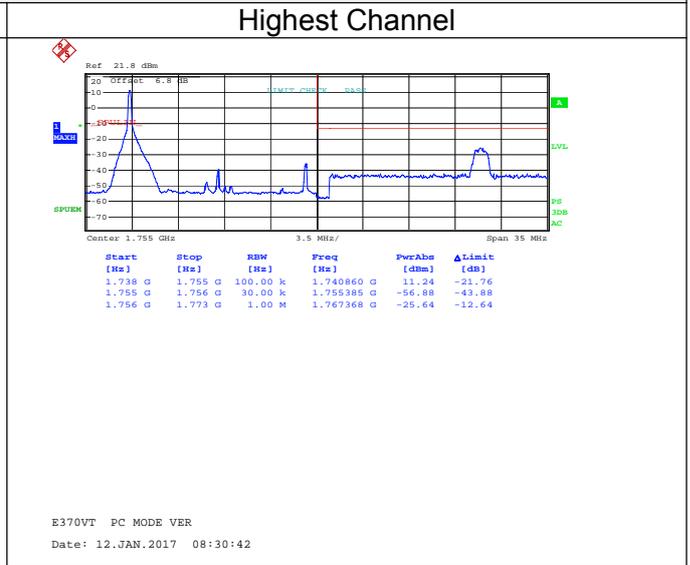
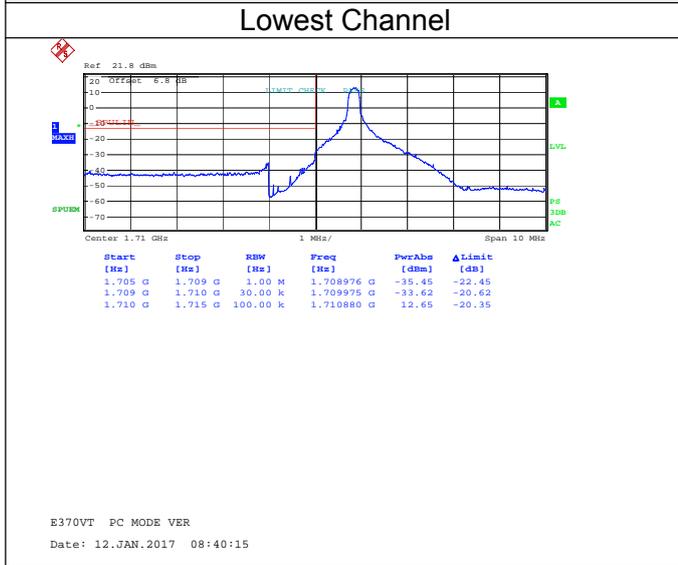


15MHz – 36RB#35

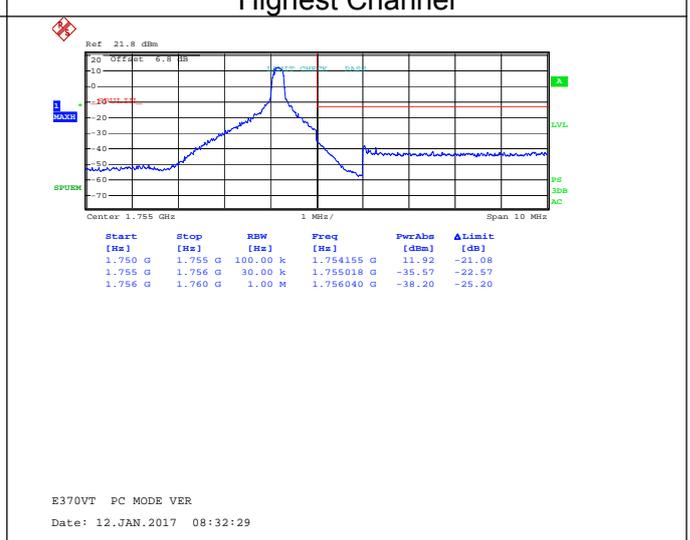
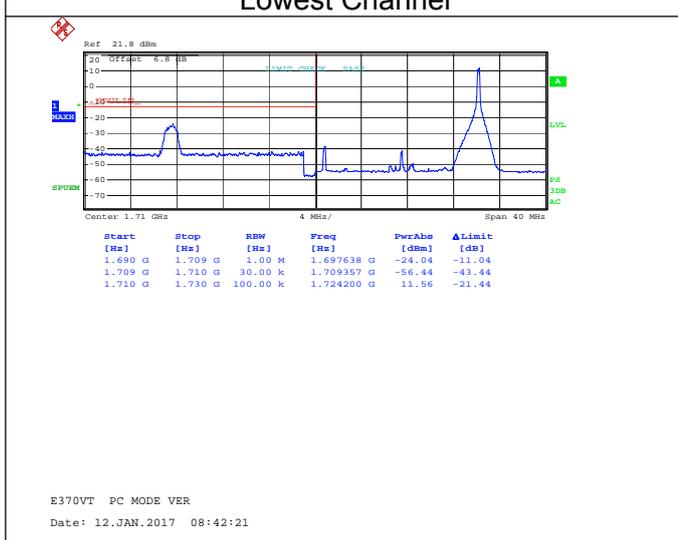




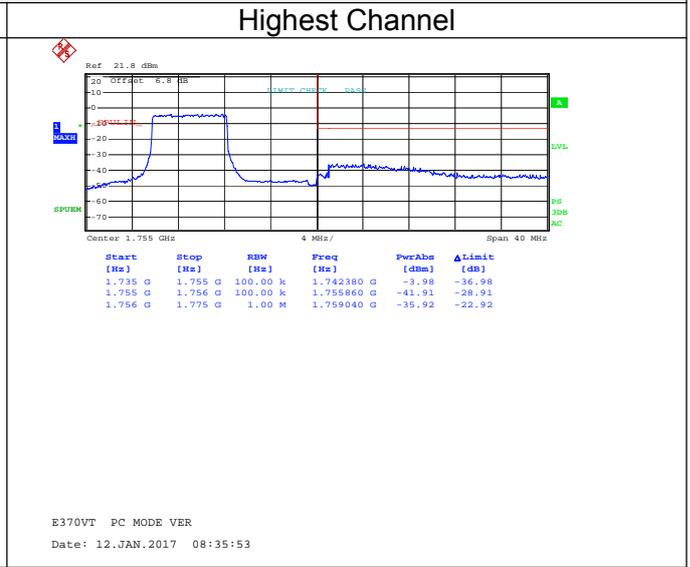
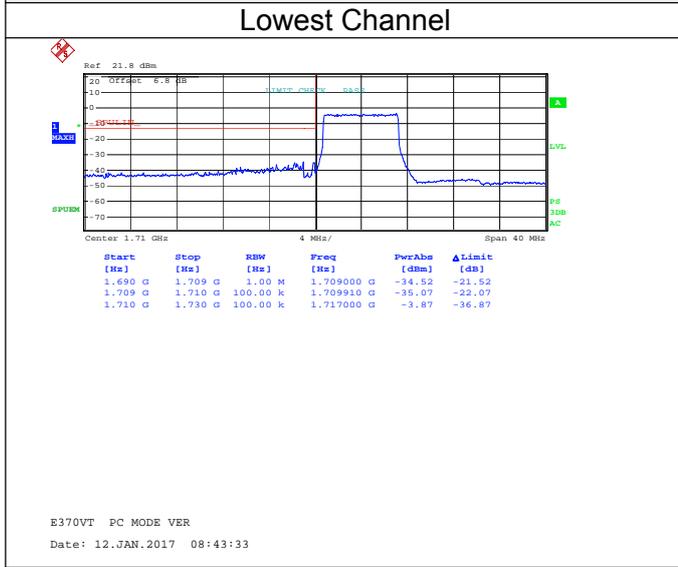
**Band 4 – 16QAM
15MHz – 1RB#0**



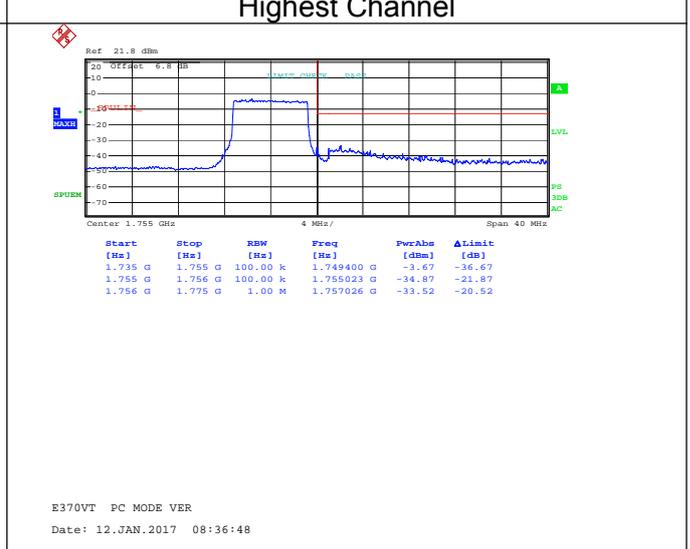
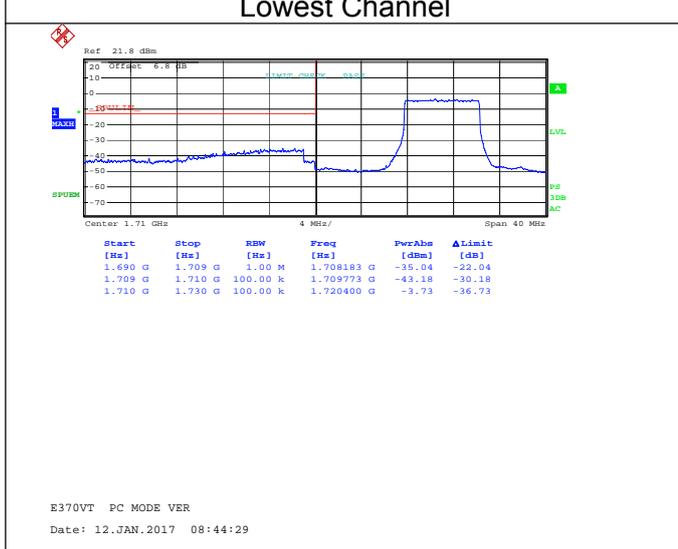
15MHz – 1RB#74

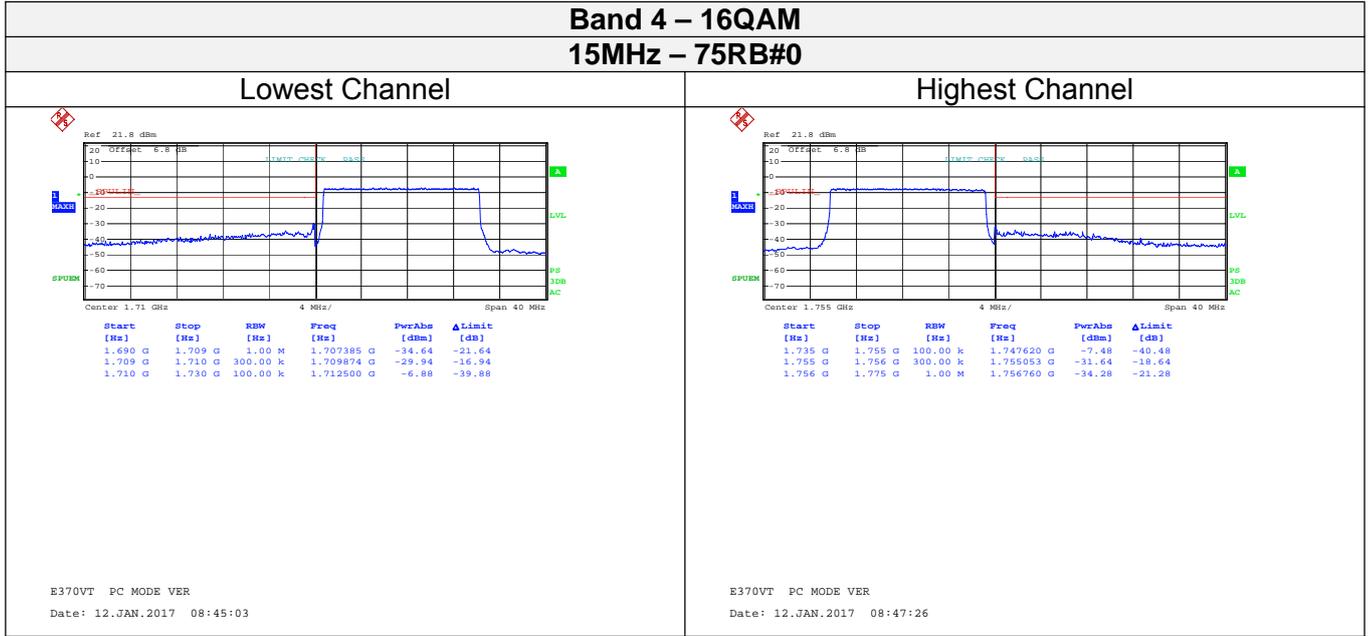


**Band 4 – 16QAM
15MHz – 36RB#0**

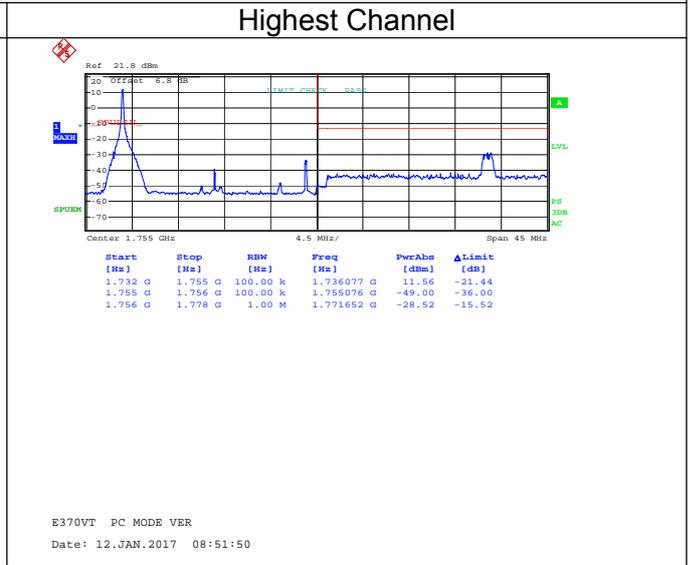
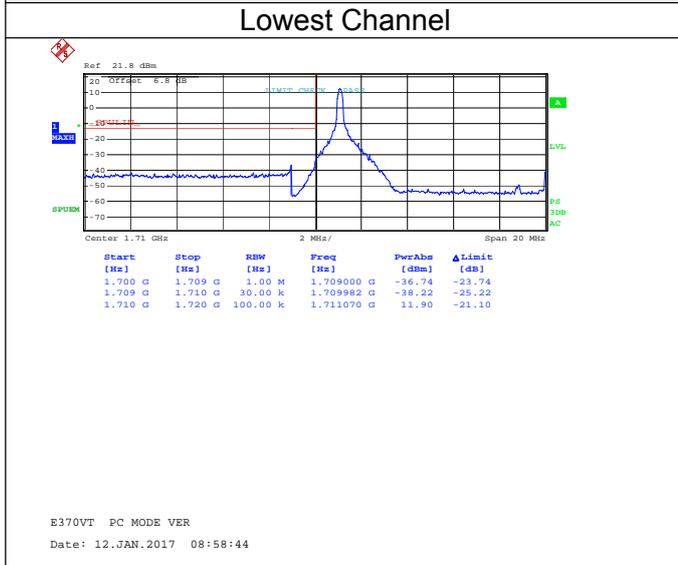


15MHz – 36RB#35

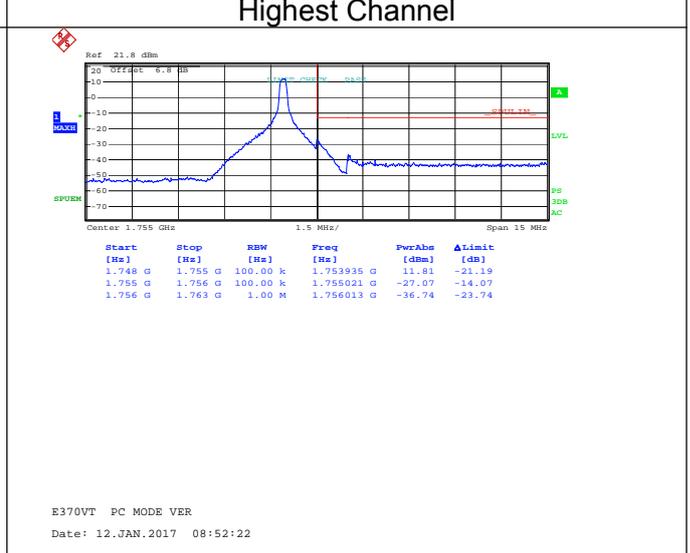
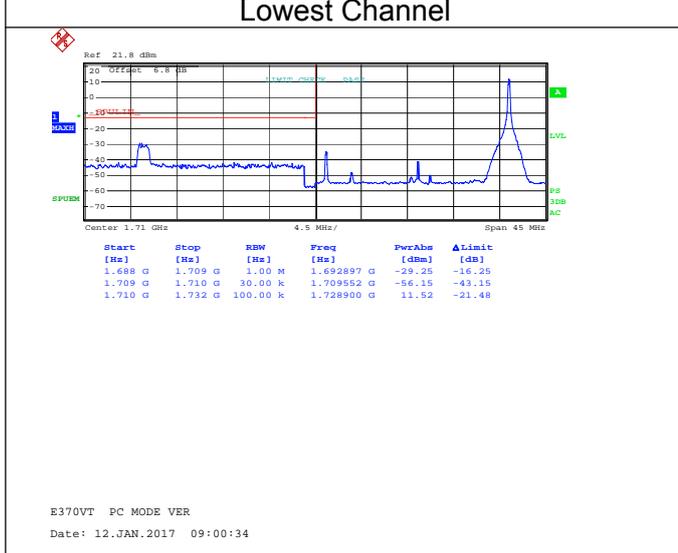




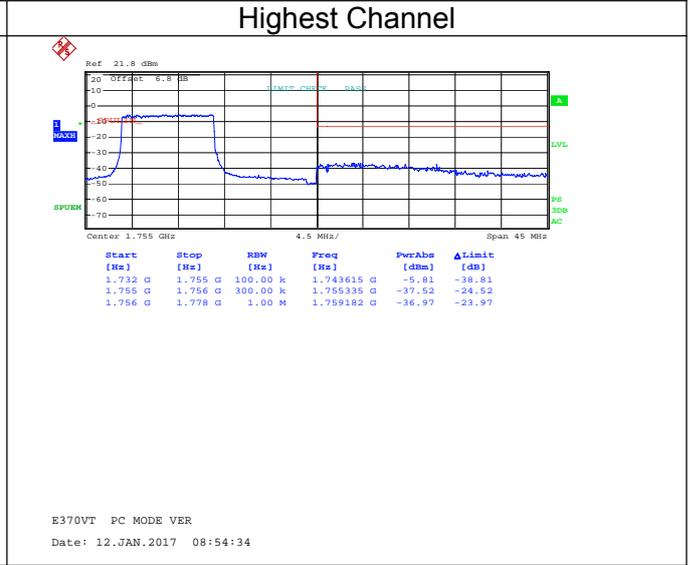
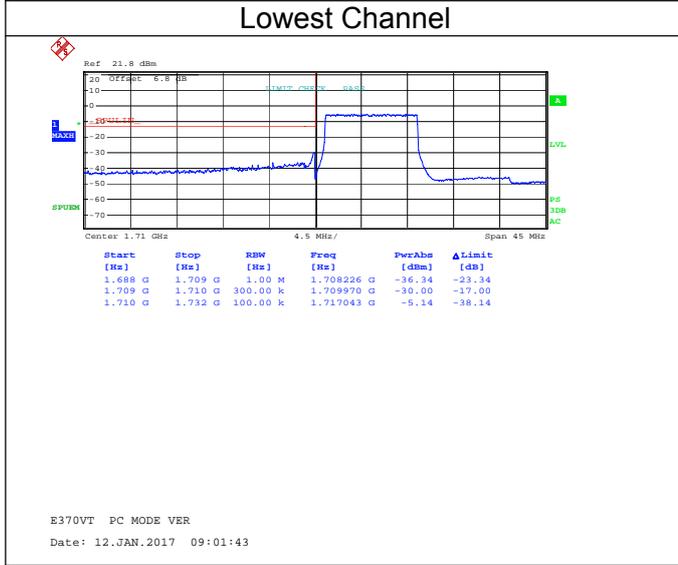
**Band 4 – QPSK
20MHz – 1RB#0**



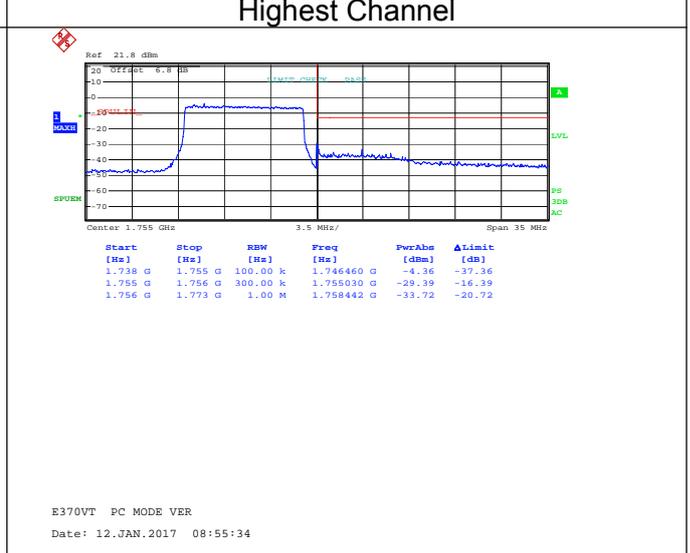
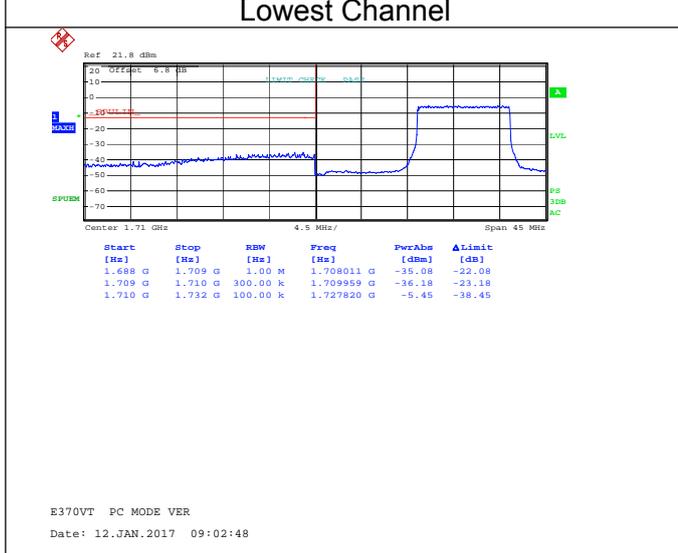
20MHz – 1RB#99

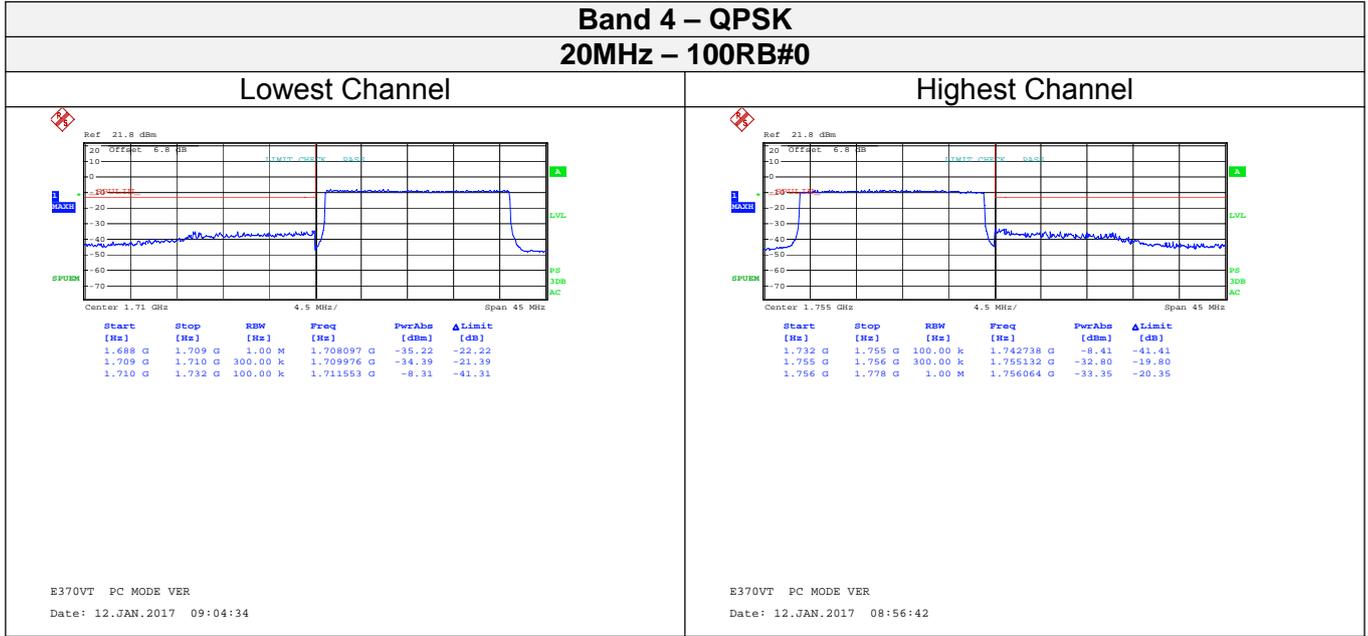


**Band 4 – QPSK
20MHz – 50RB#0**

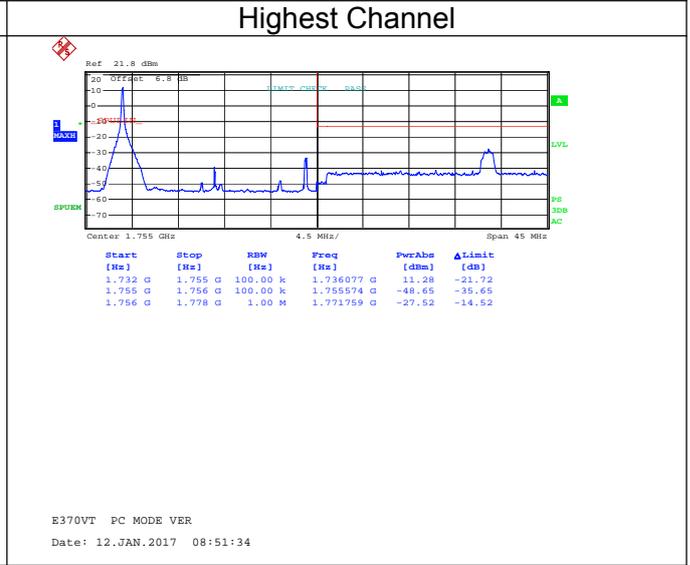
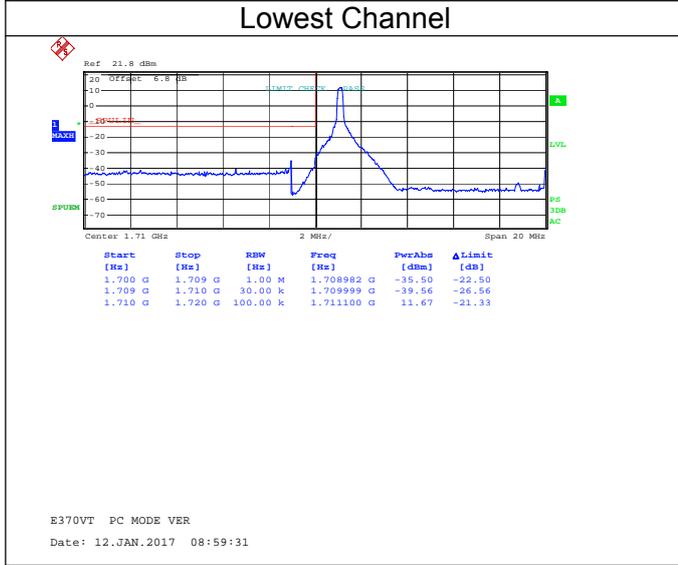


20MHz – 50RB#49

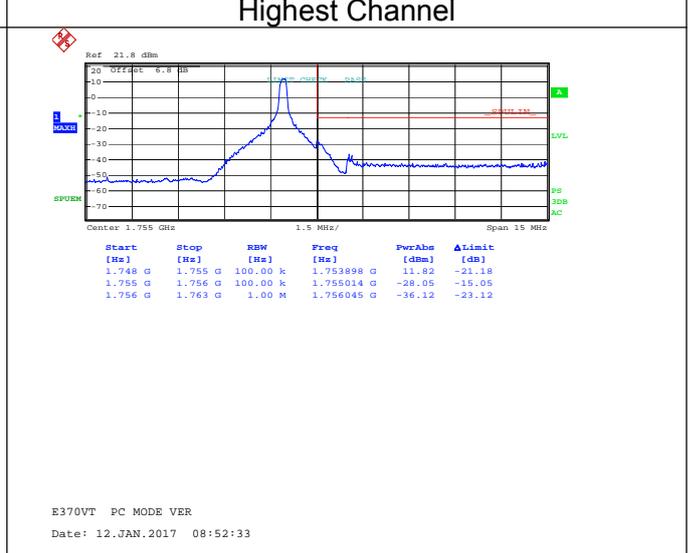
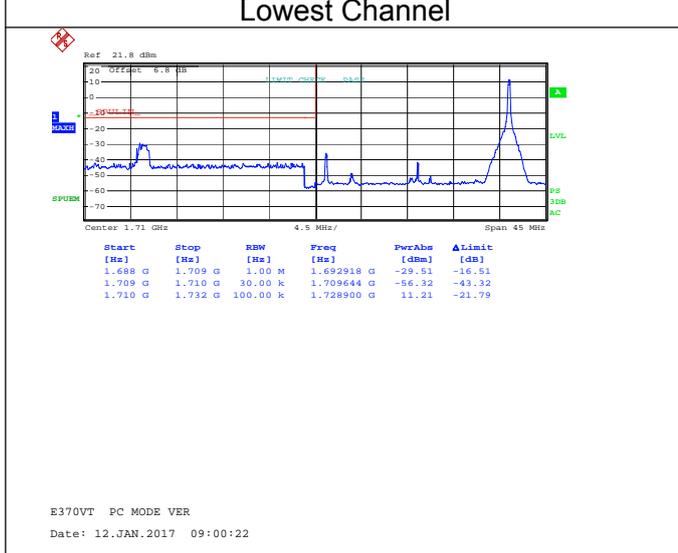




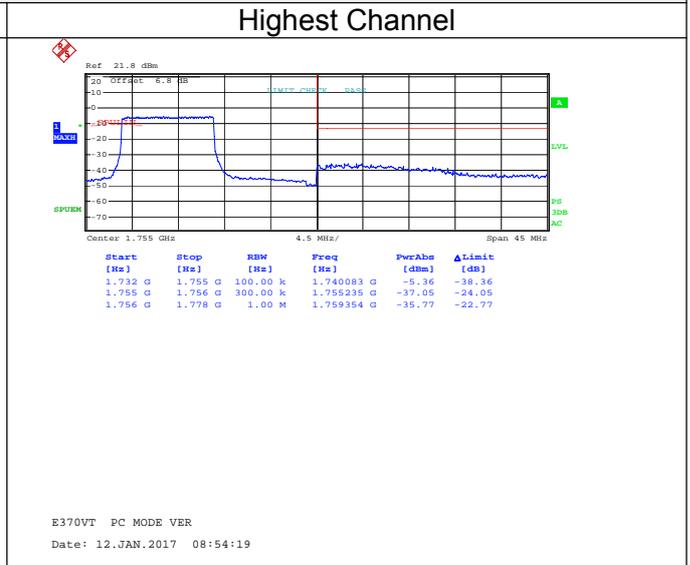
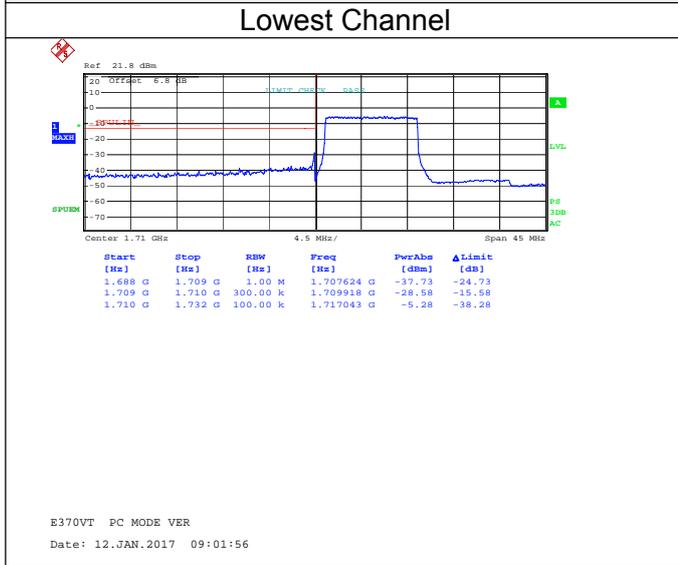
**Band 4 – 16QAM
20MHz – 1RB#0**



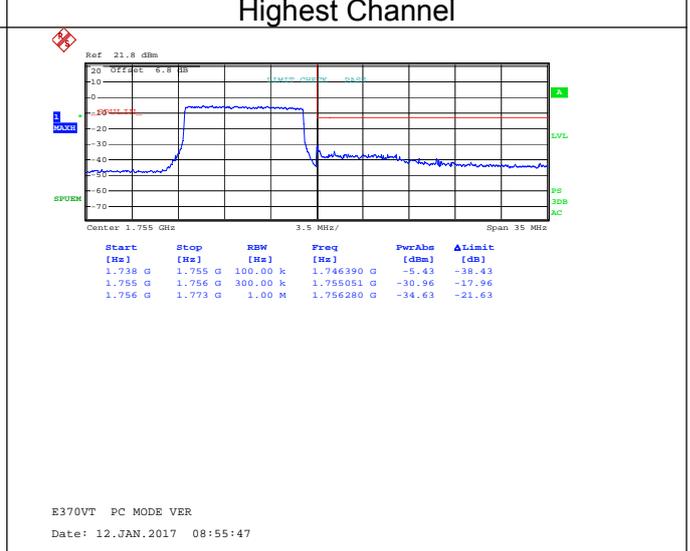
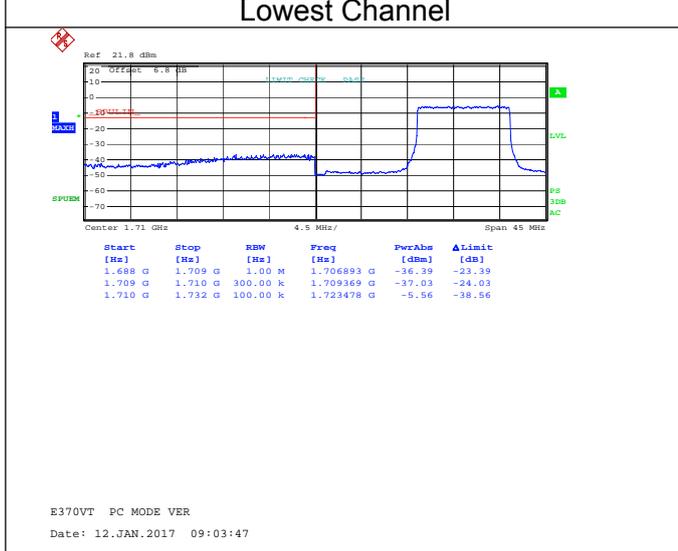
20MHz – 1RB#99

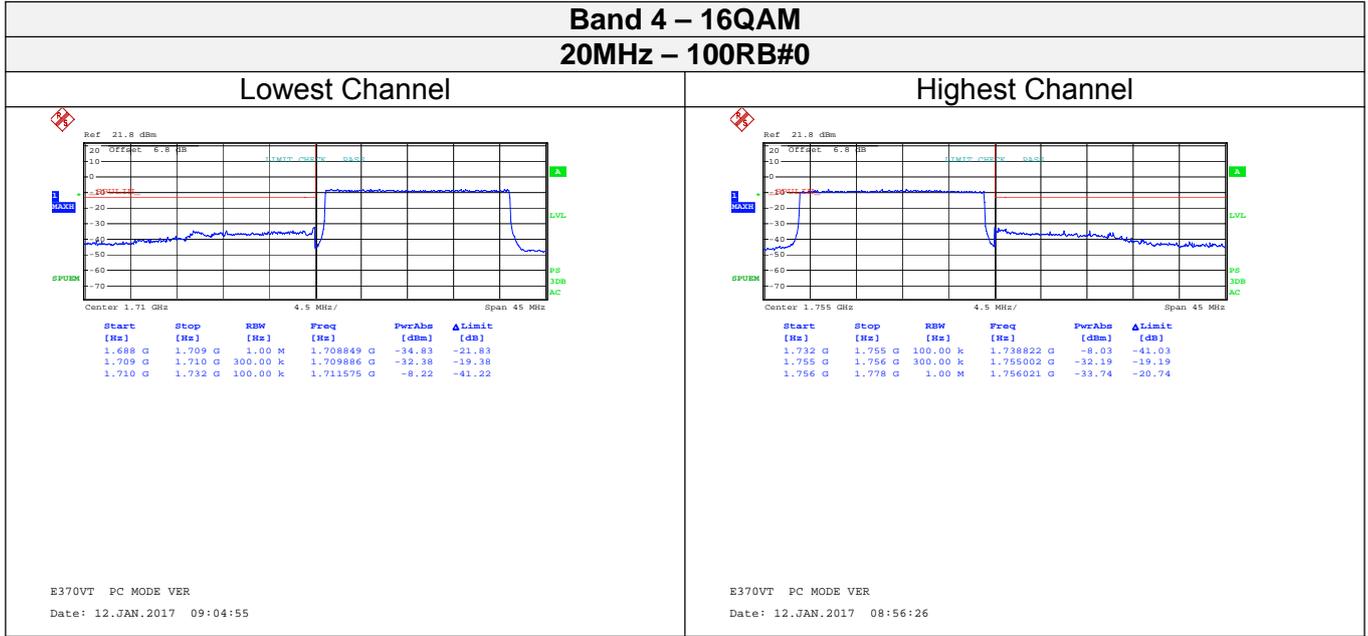


**Band 4 – 16QAM
20MHz – 50RB#0**

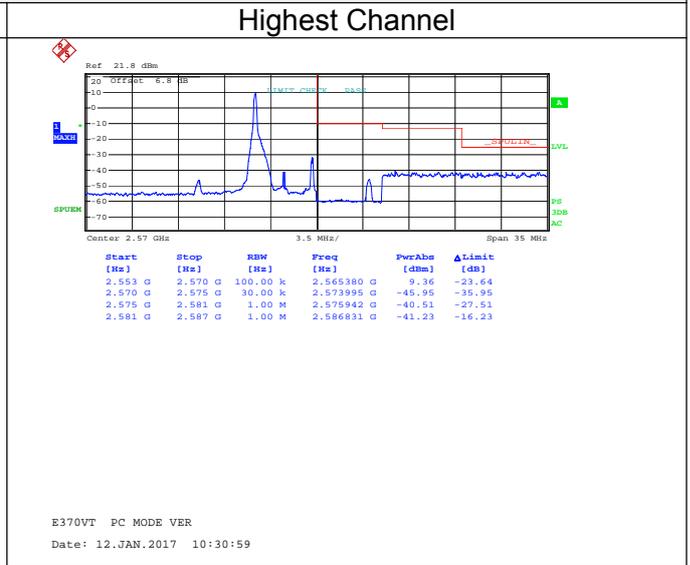
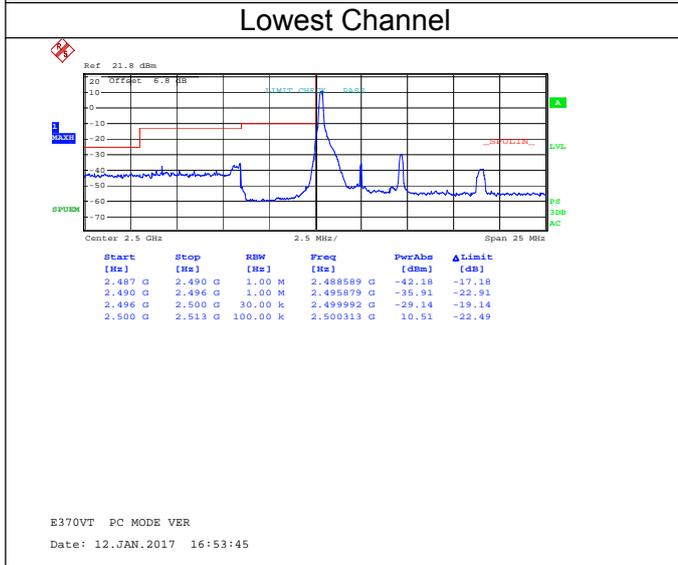


20MHz – 50RB#49

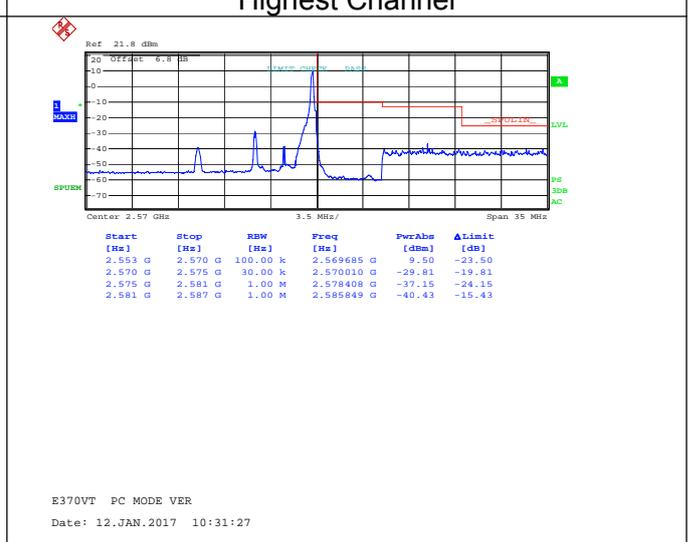
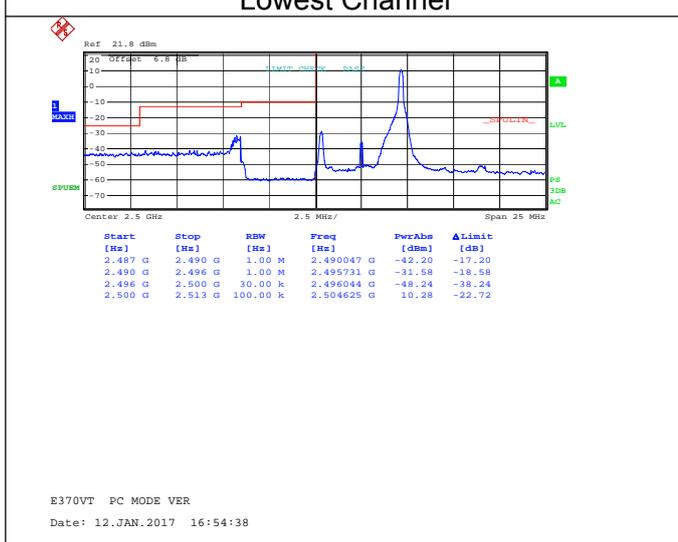




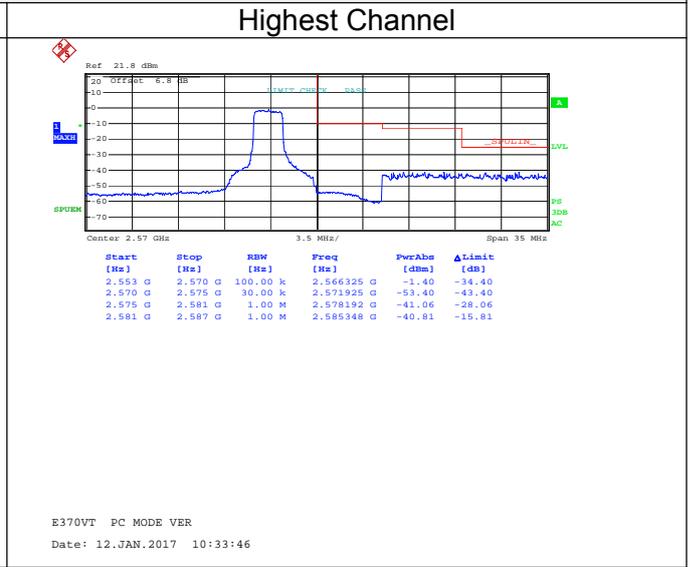
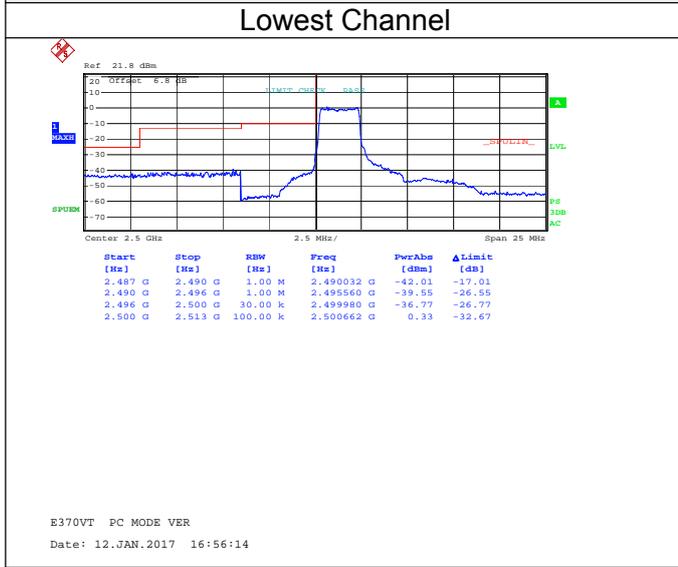
**Band 7 – QPSK
5MHz – 1RB#0**



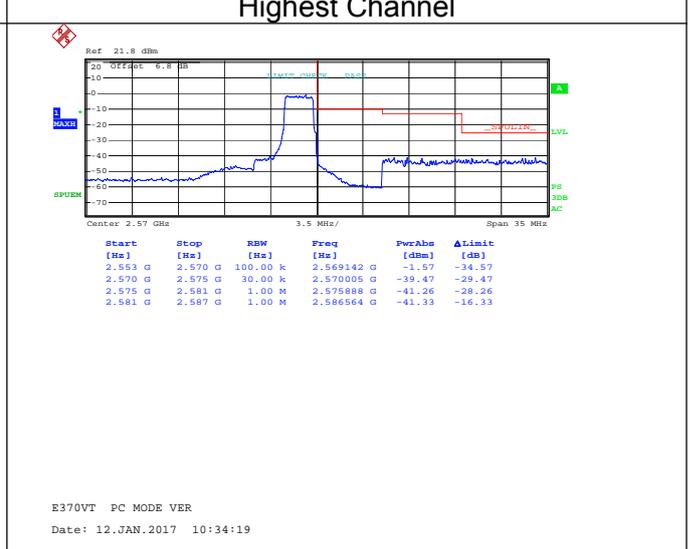
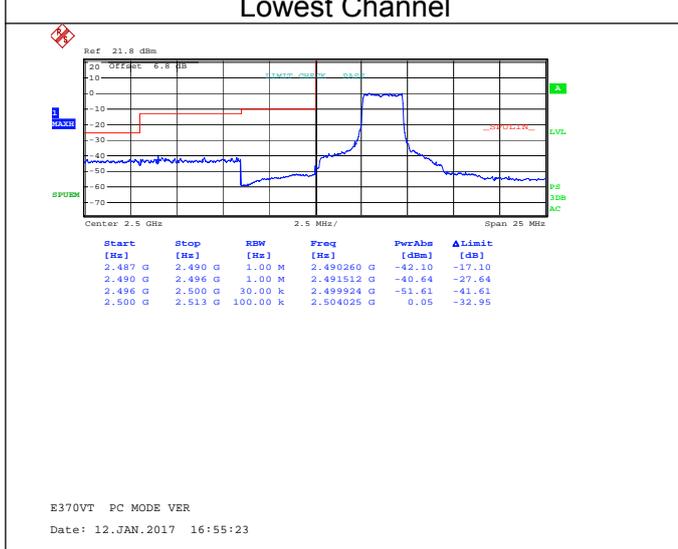
5MHz – 1RB#24

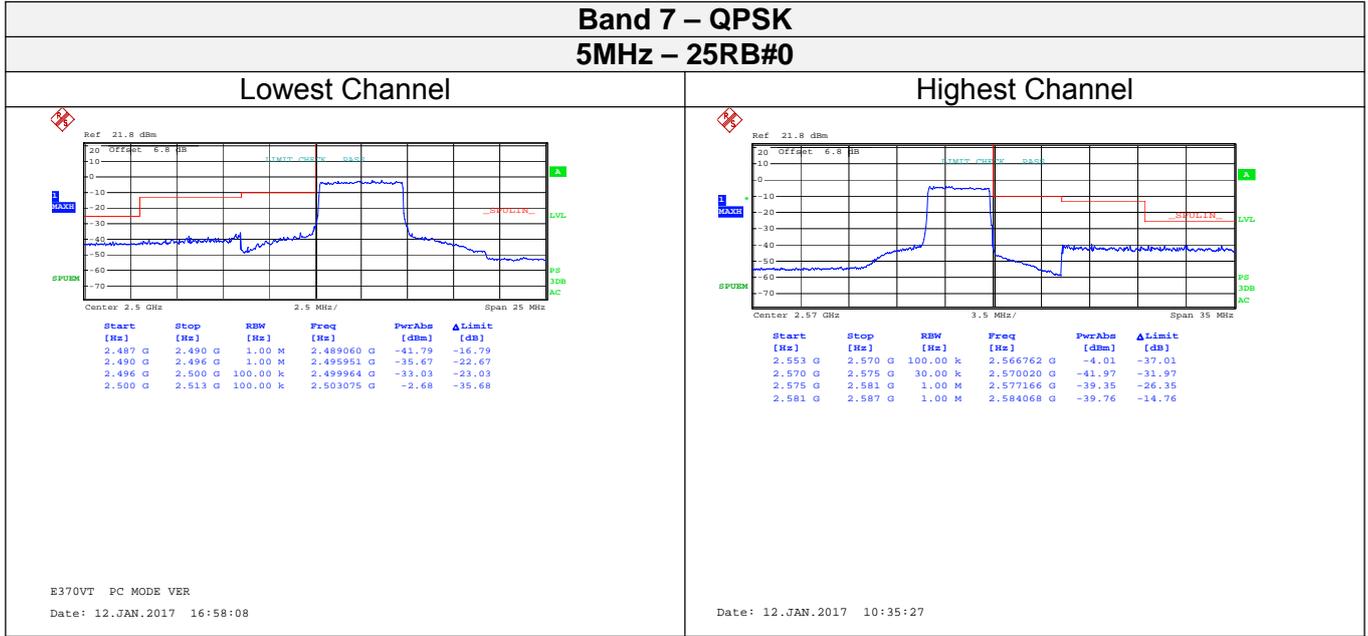


**Band 7 – QPSK
5MHz – 12RB#0**

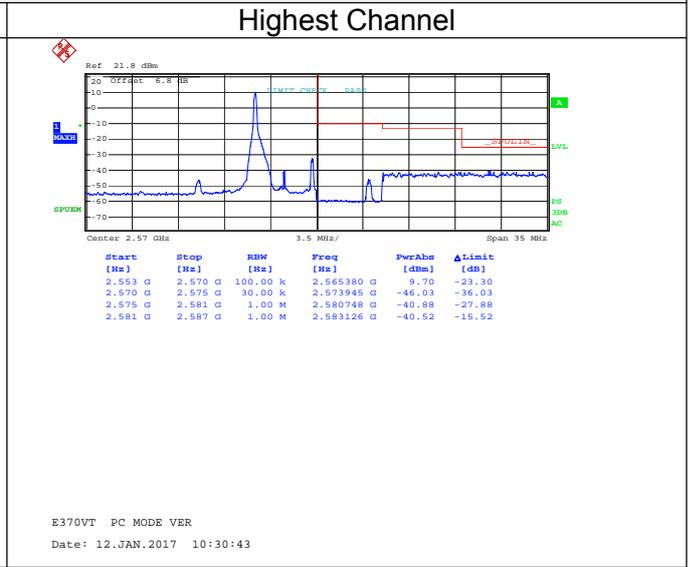
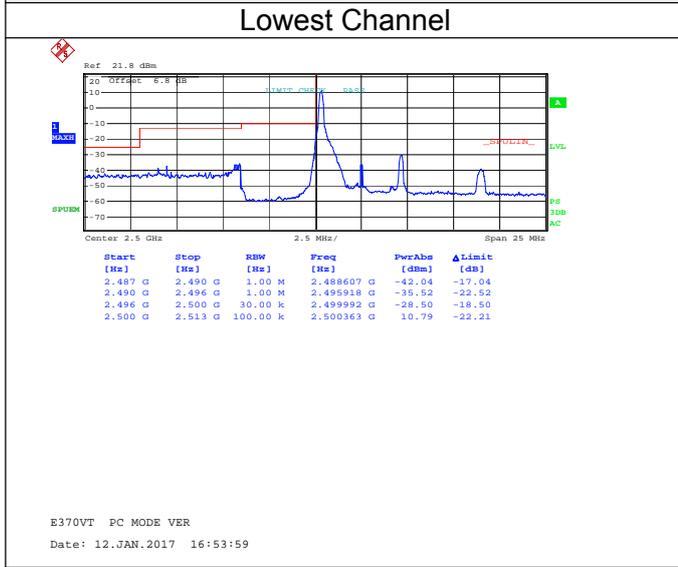


5MHz – 12RB#11

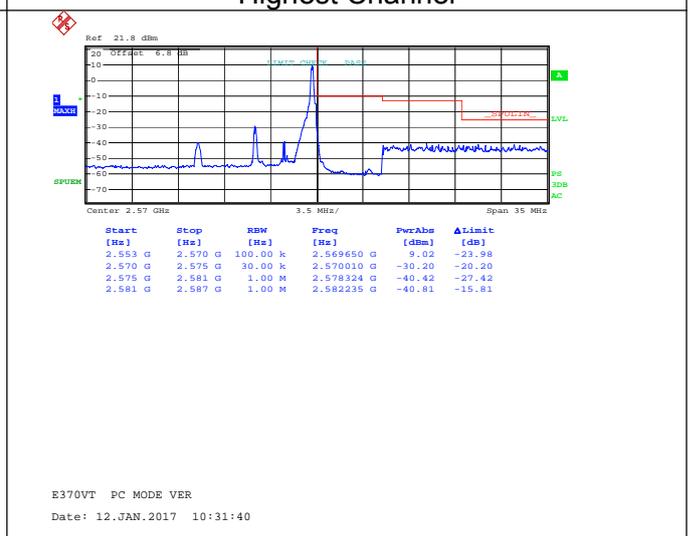
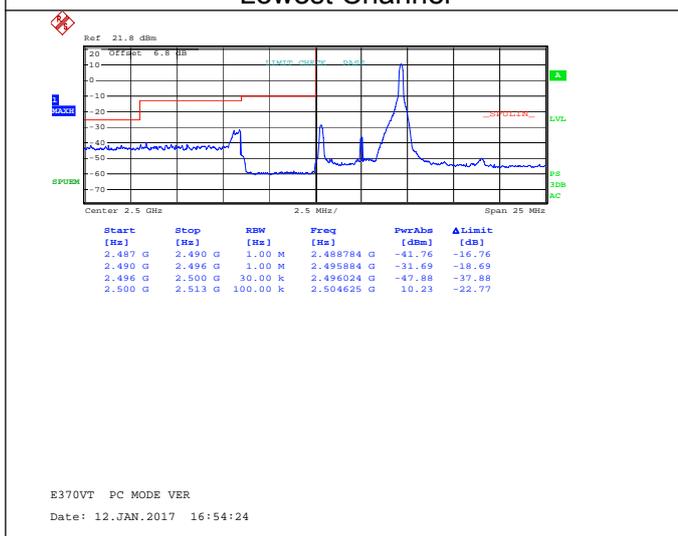




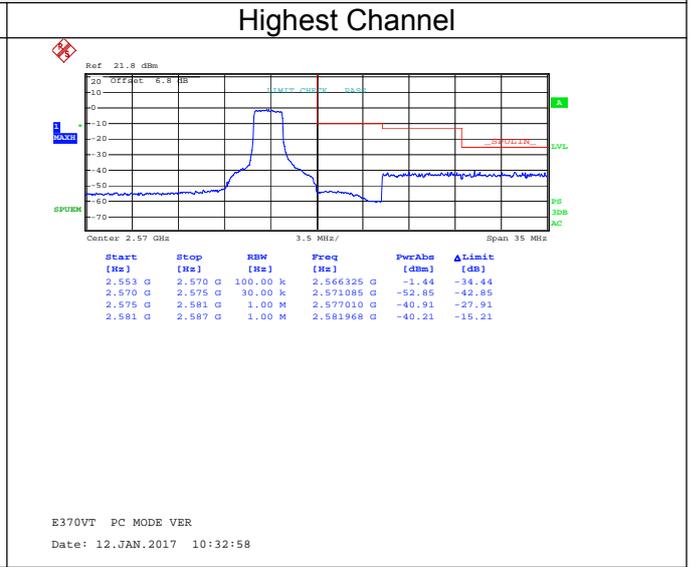
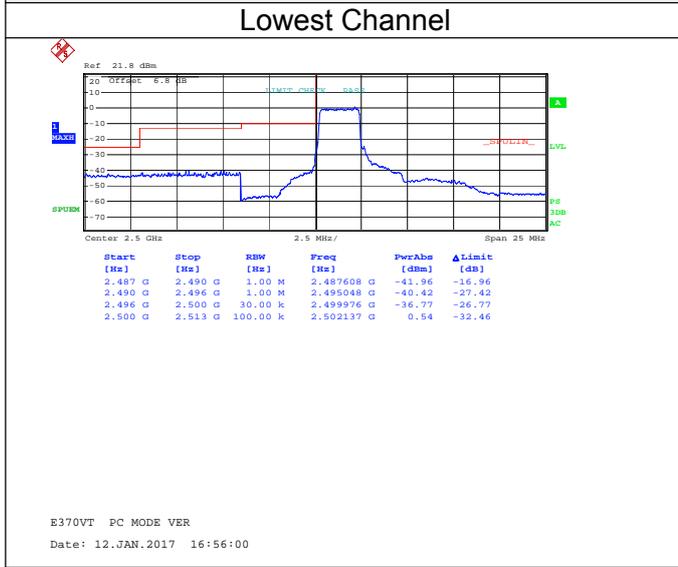
**Band 7 – 16QAM
5MHz – 1RB#0**



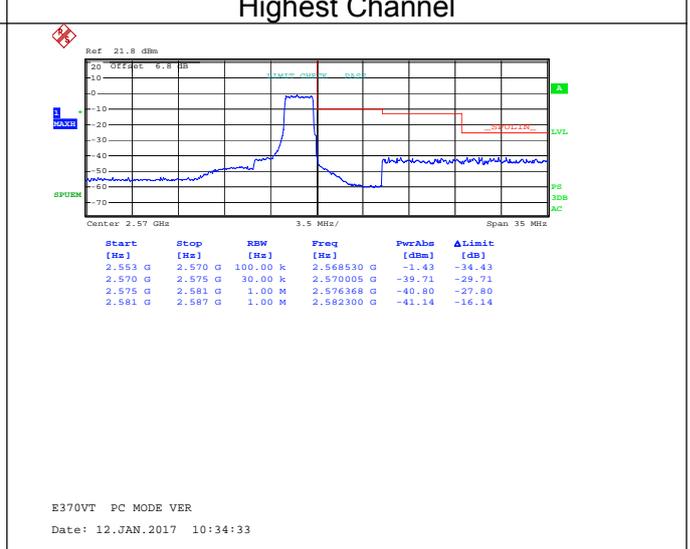
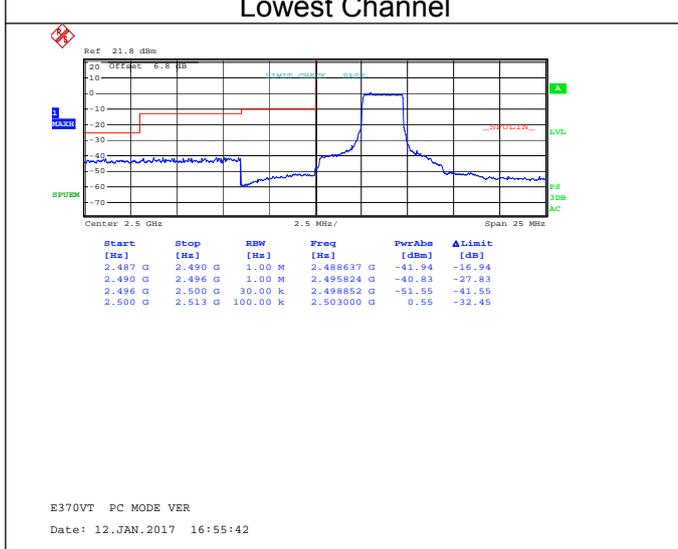
5MHz – 1RB#24

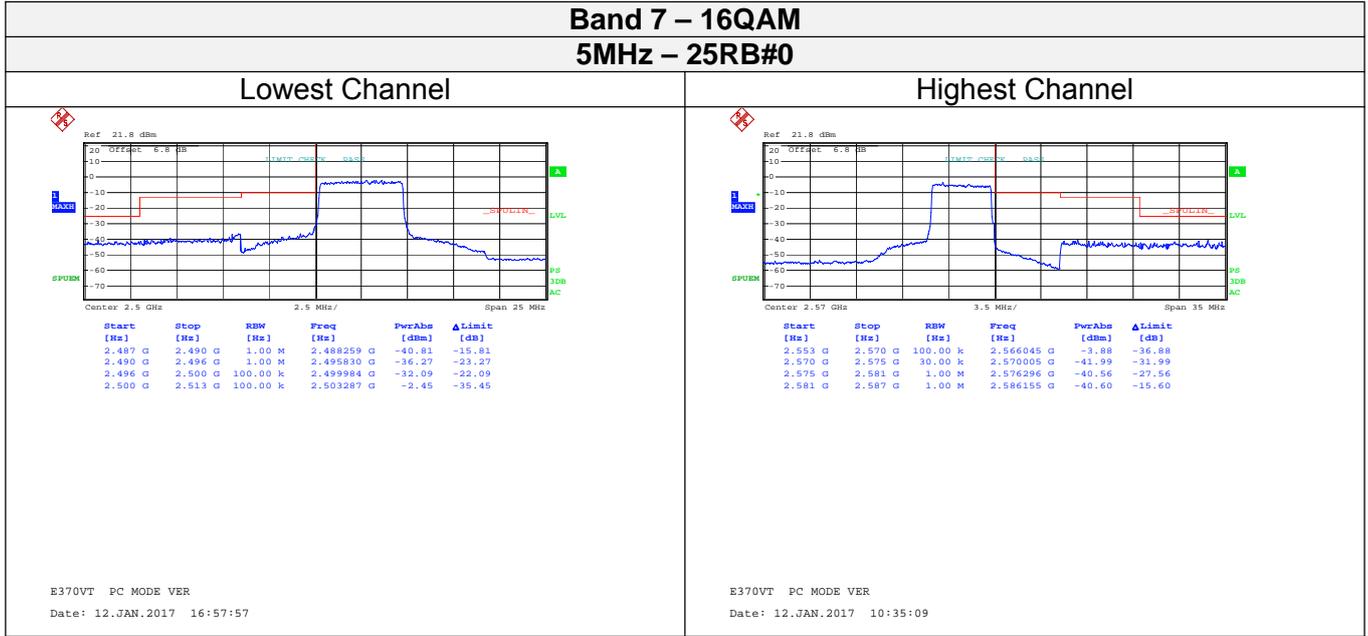


**Band 7 – 16QAM
5MHz – 12RB#0**

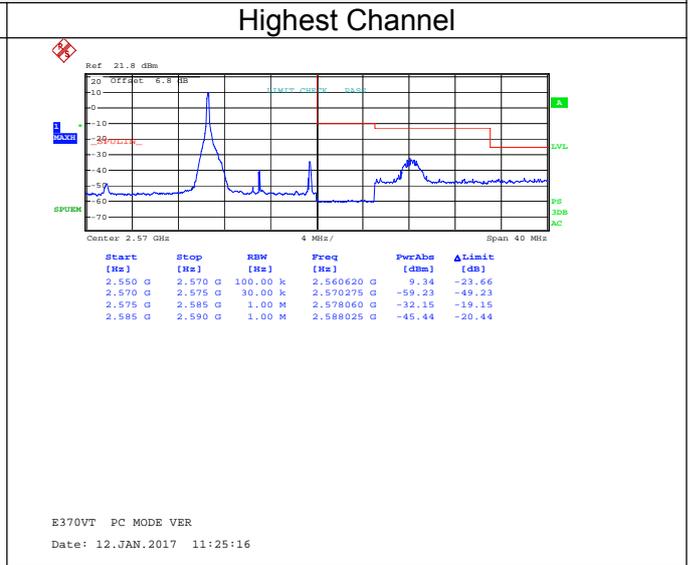
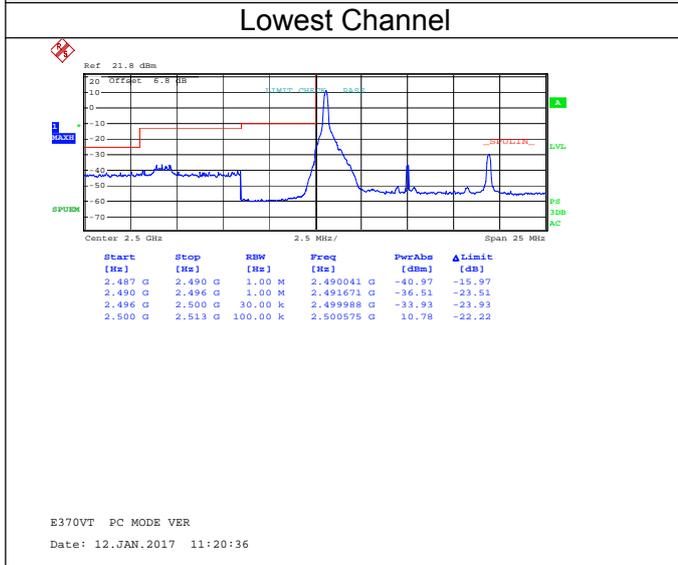


5MHz – 12RB#11

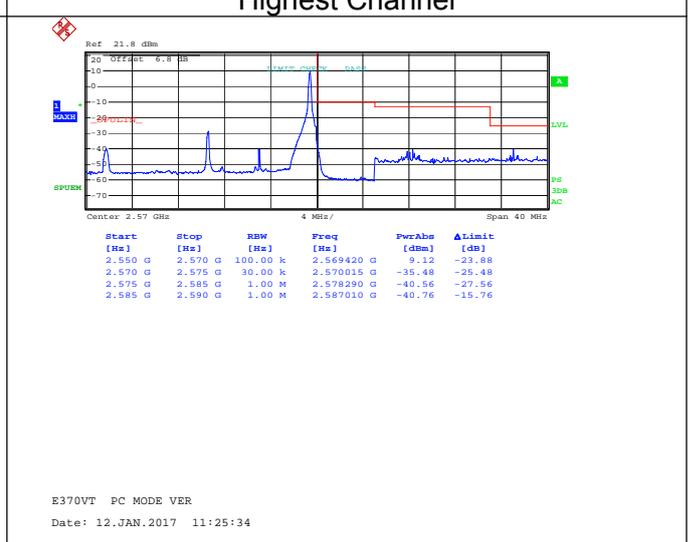
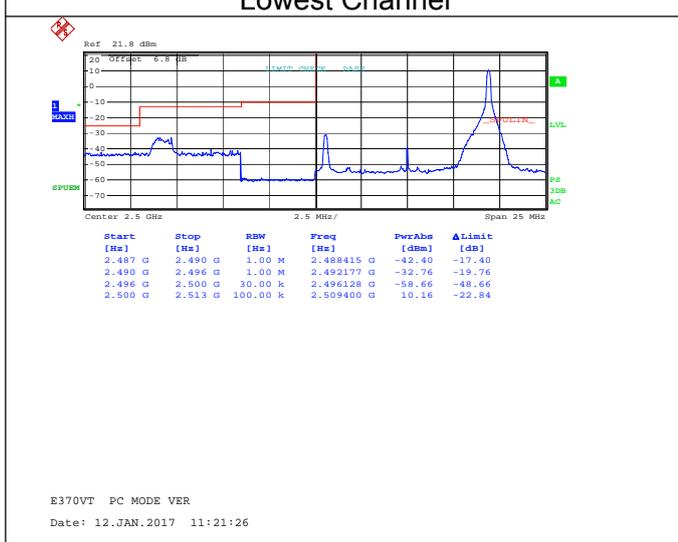




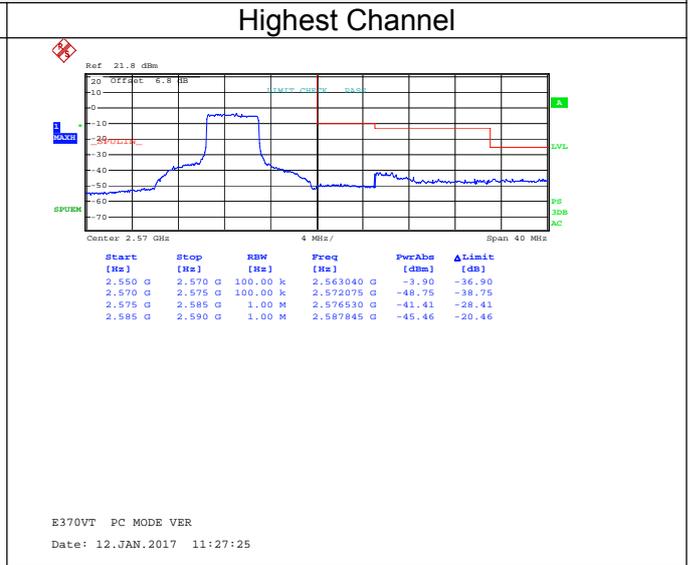
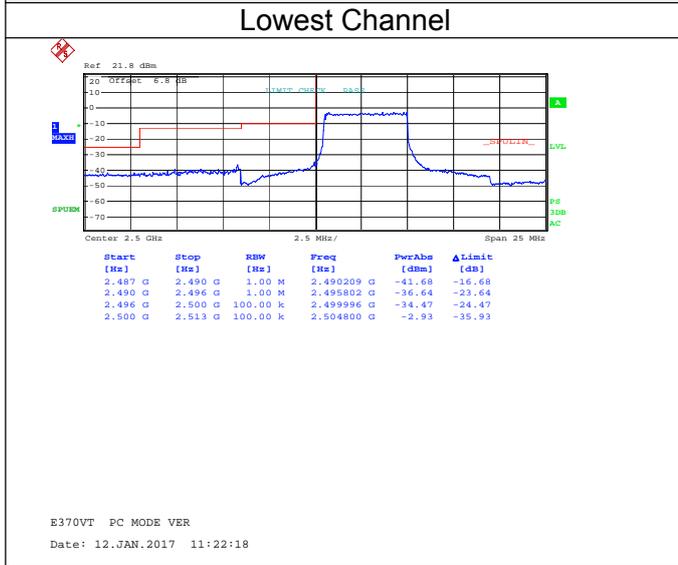
**Band 7 – QPSK
10MHz – 1RB#0**



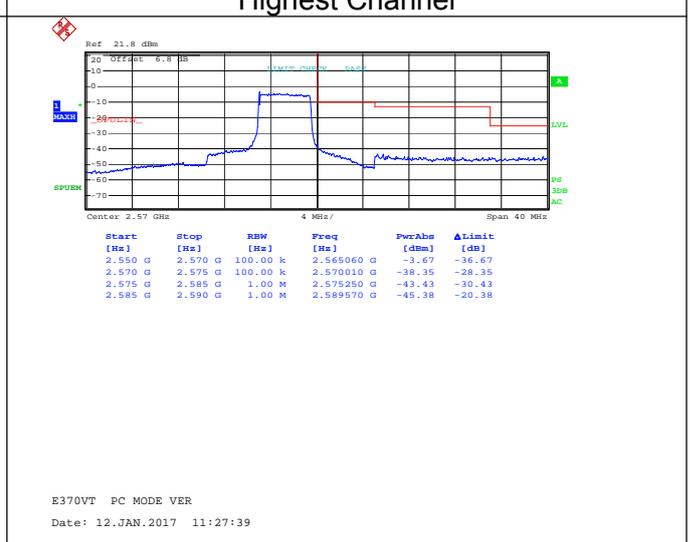
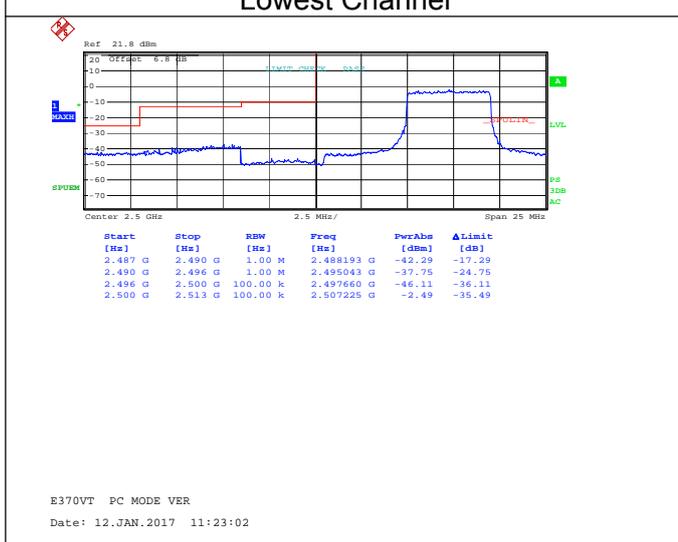
10MHz – 1RB#49

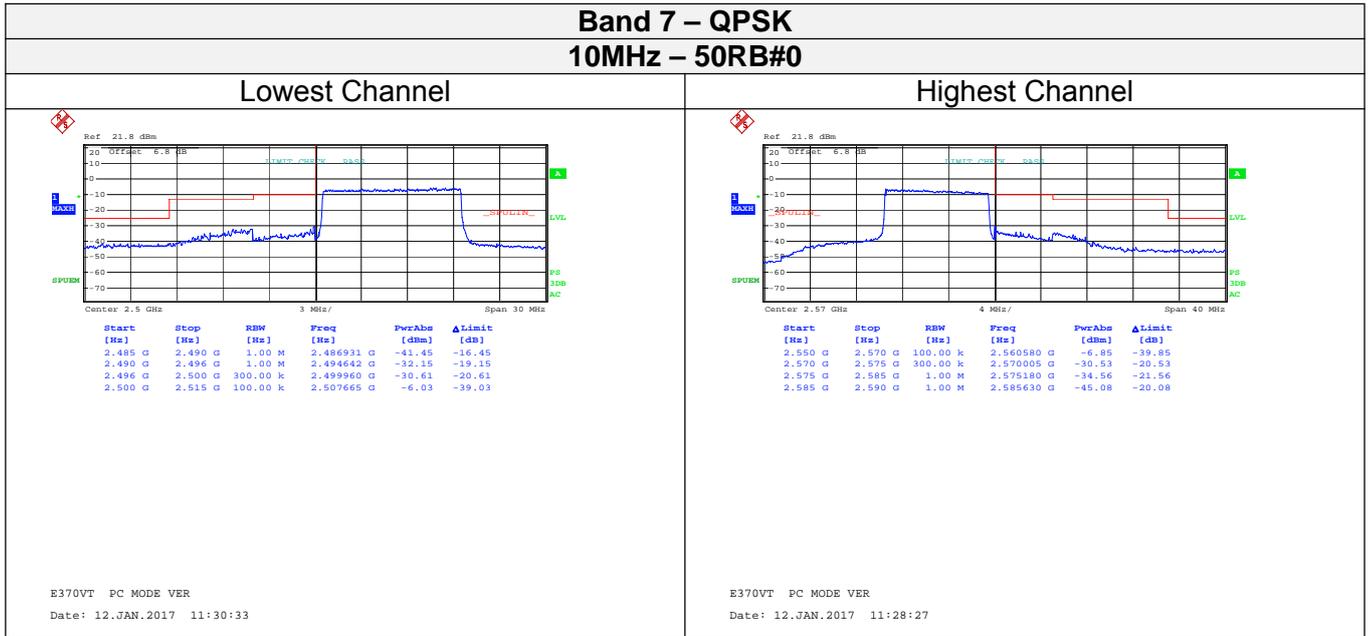


**Band 7 – QPSK
10MHz – 25RB#0**



10MHz – 25RB#24

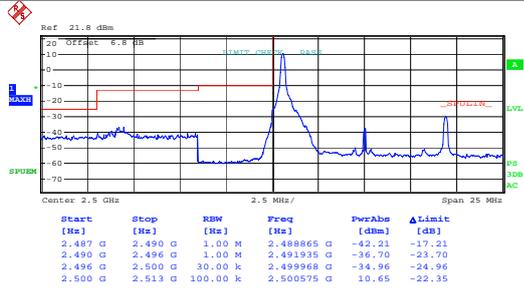




Band 7 – 16QAM

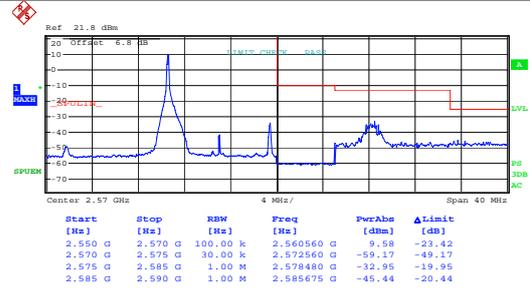
10MHz – 1RB#0

Lowest Channel



E370VT PC MODE VER
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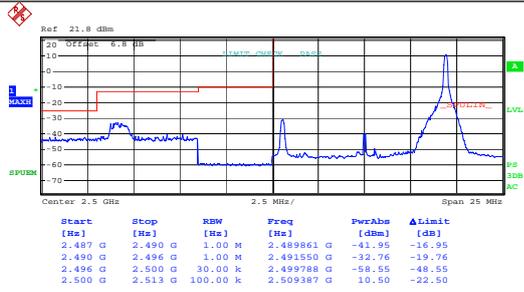
Highest Channel



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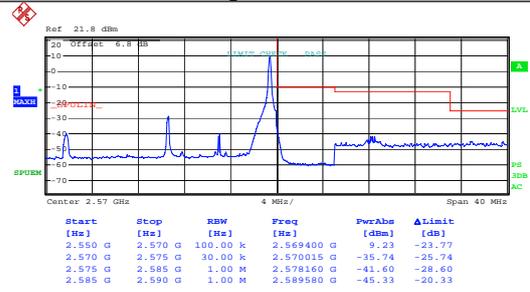
10MHz – 1RB#49

Lowest Channel



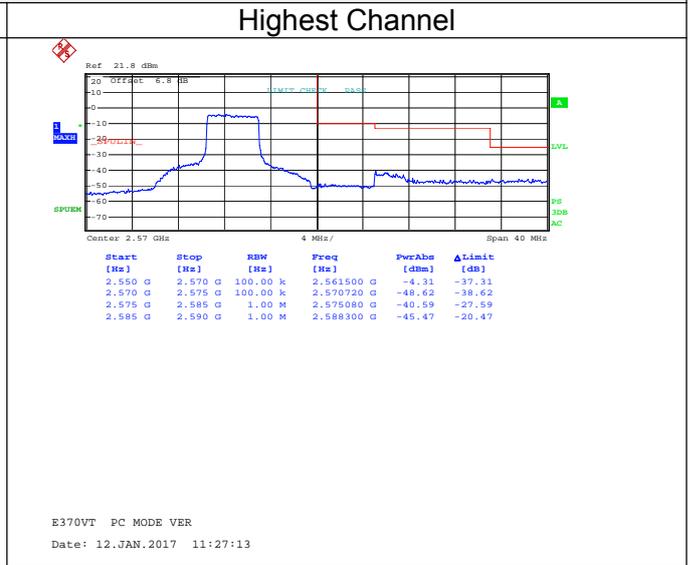
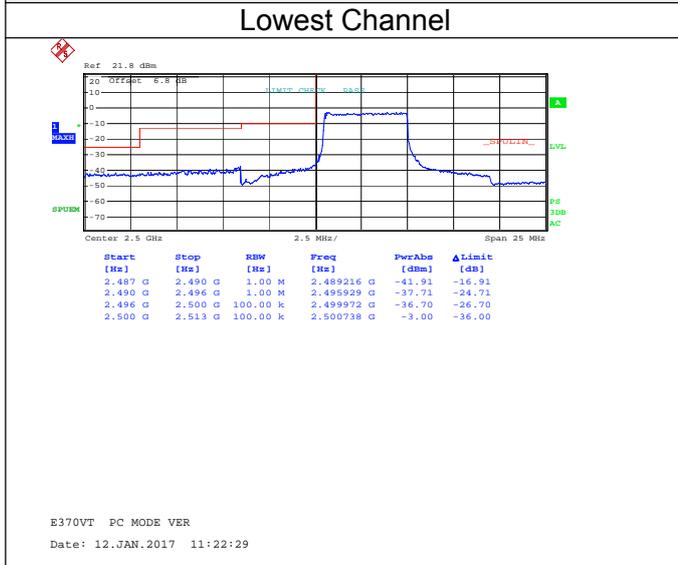
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Highest Channel

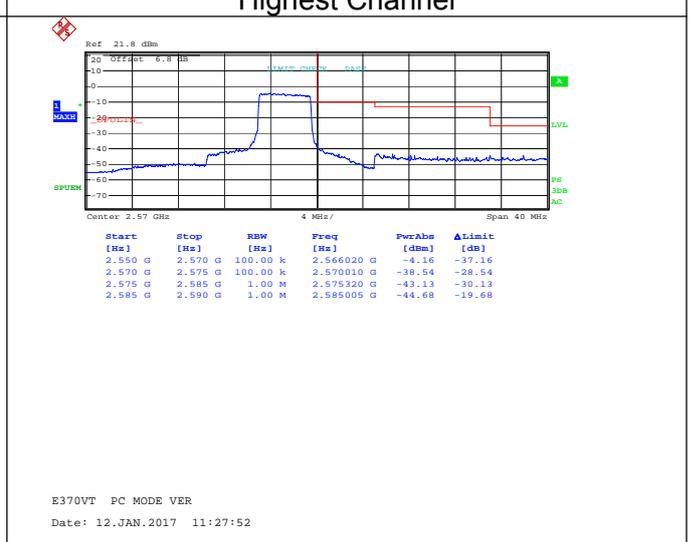
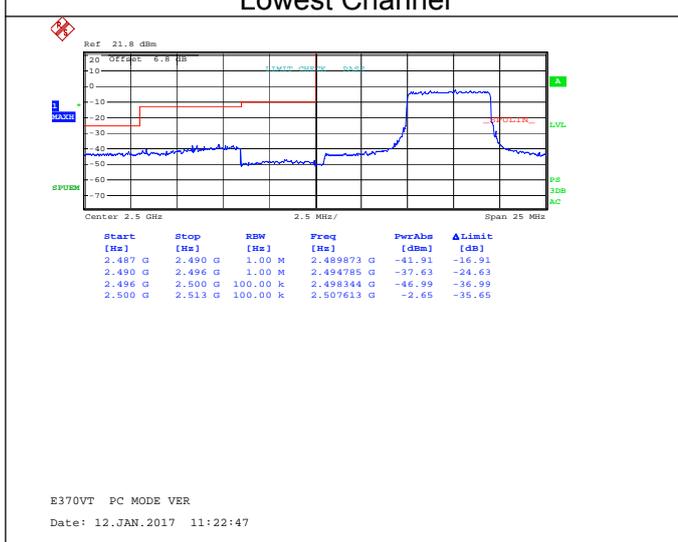


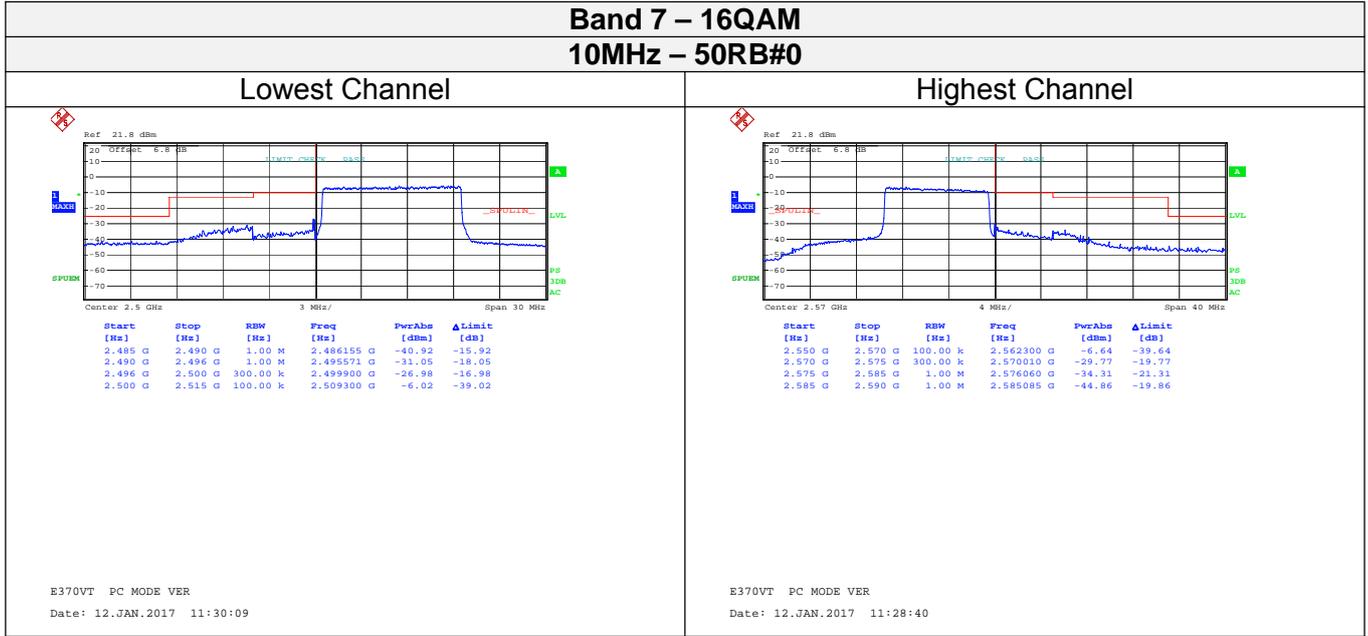
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**Band 7 – 16QAM
10MHz – 25RB#0**

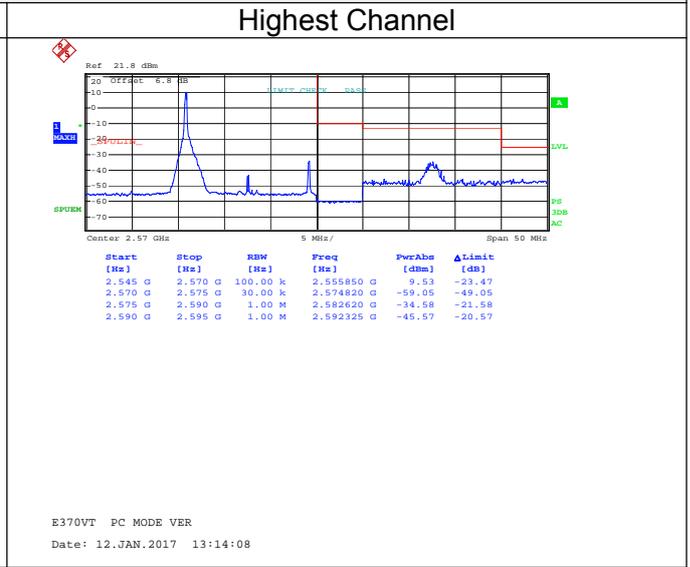
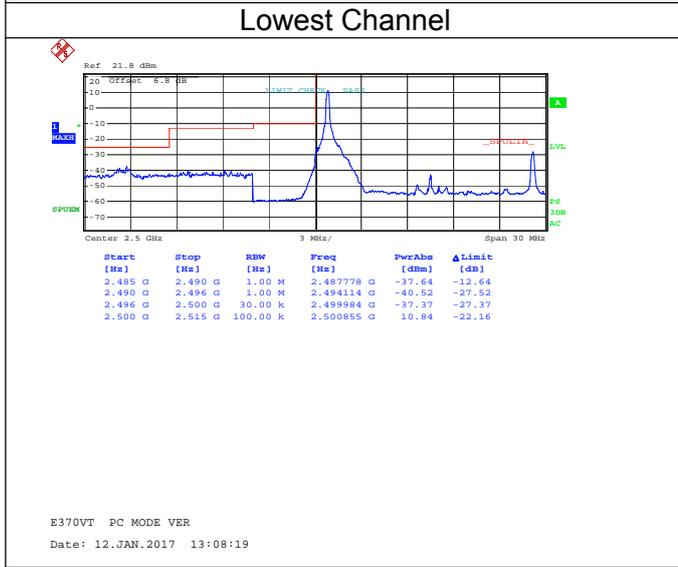


10MHz – 25RB#24

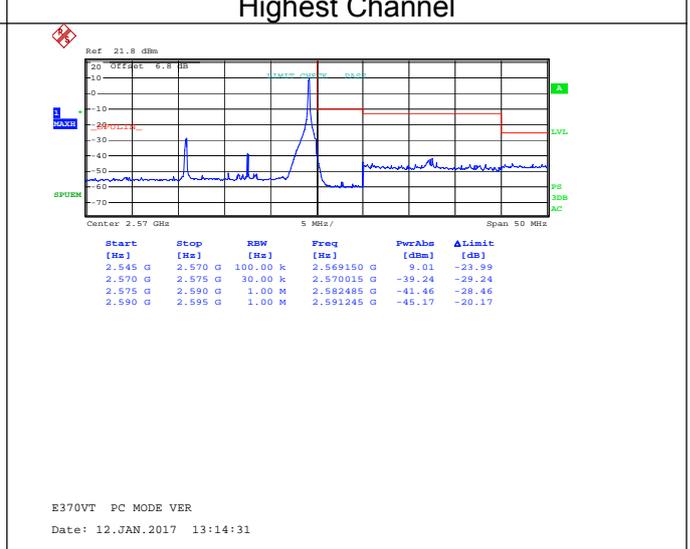
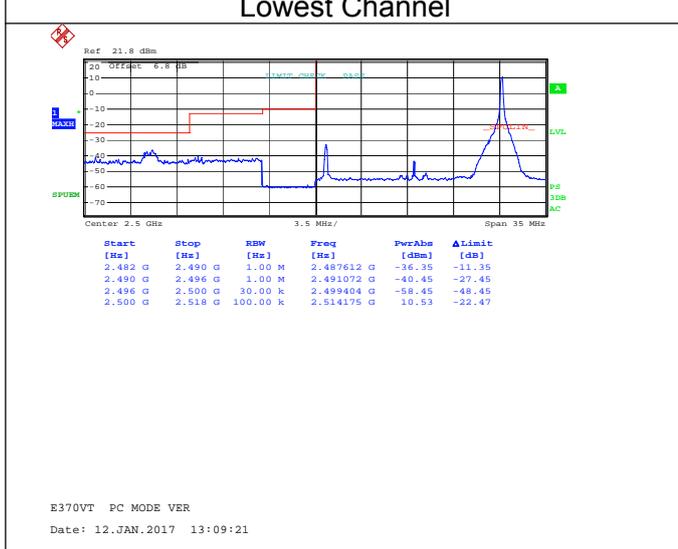




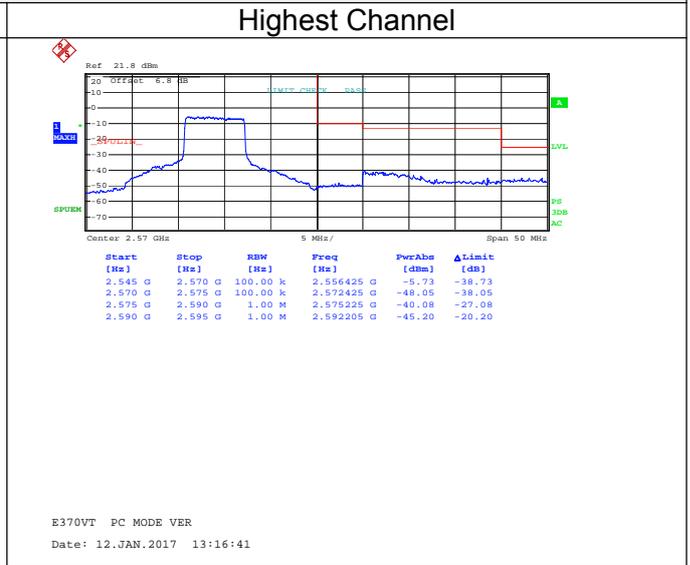
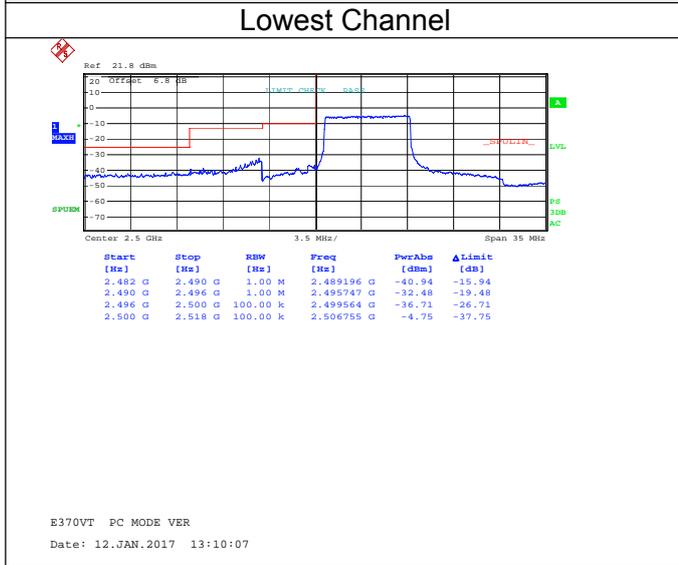
**Band 7 – QPSK
15MHz – 1RB#0**



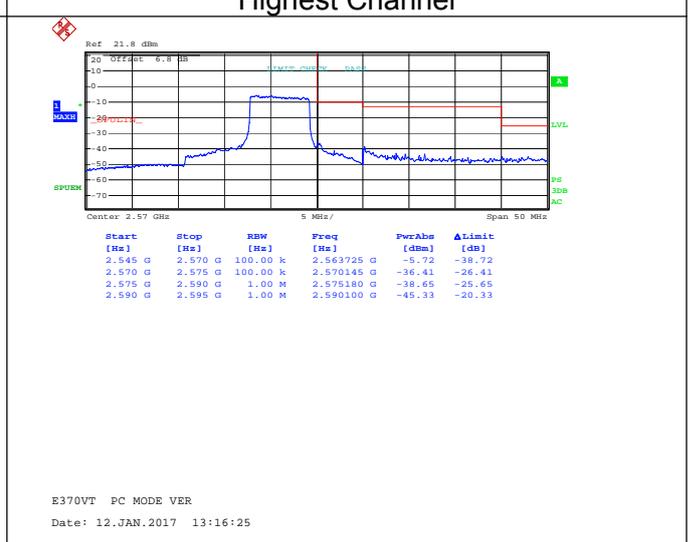
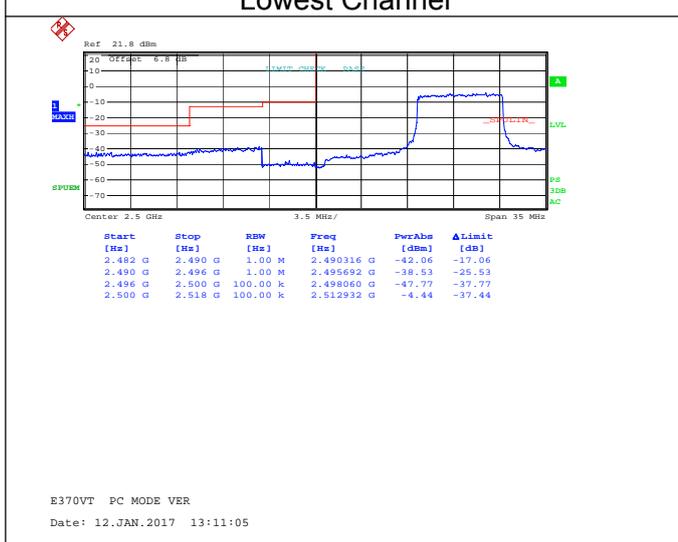
15MHz – 1RB#74

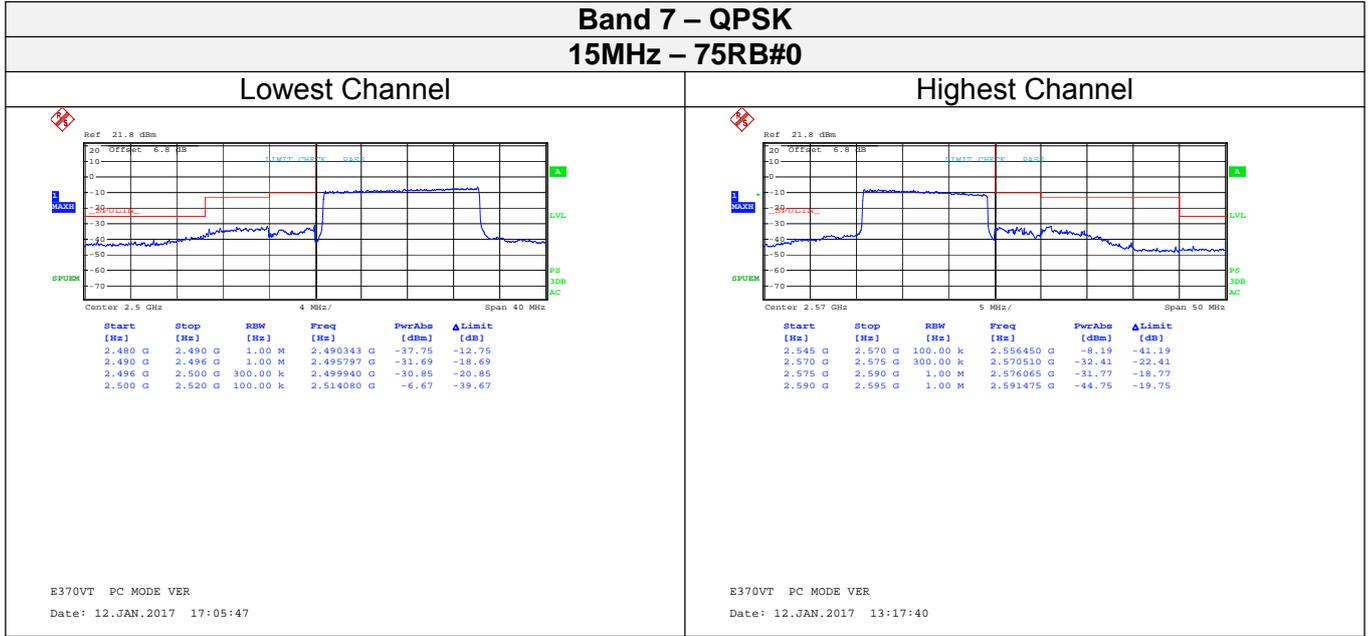


Band 7 – QPSK
15MHz – 36RB#0

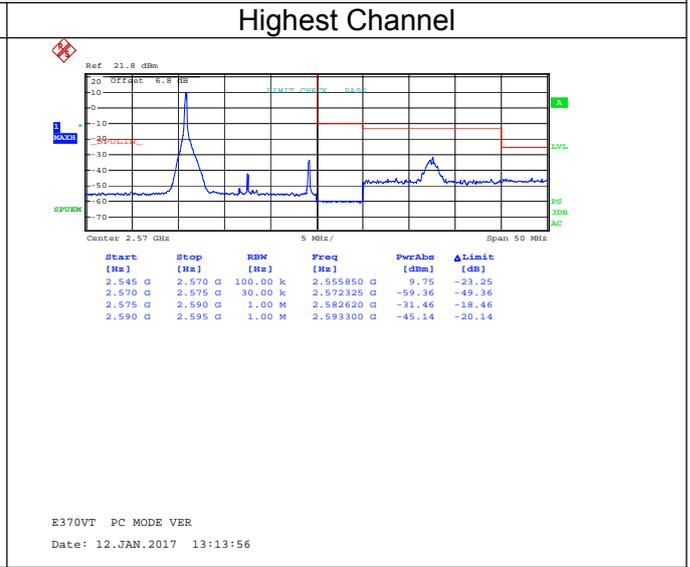
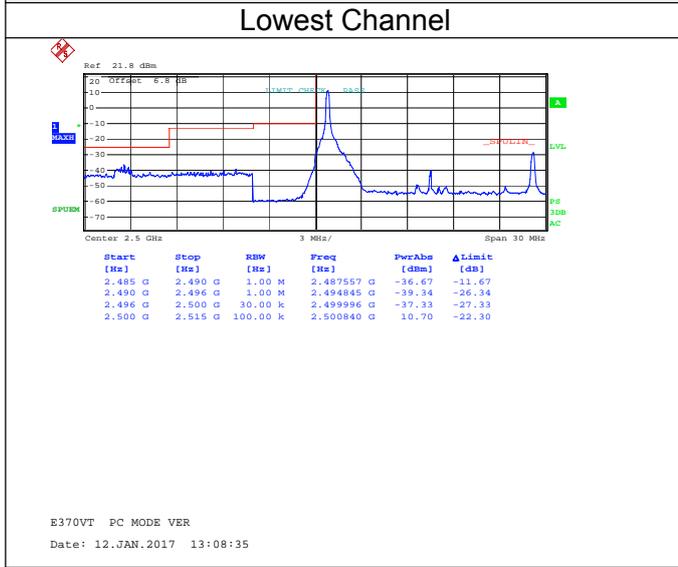


15MHz – 36RB#35

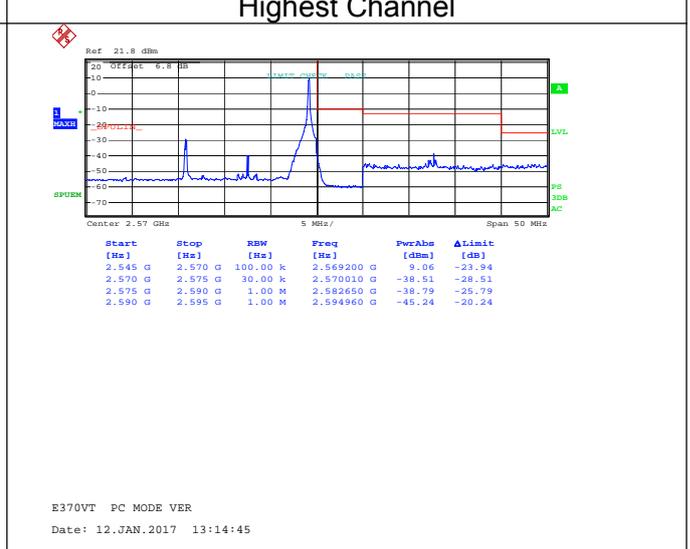
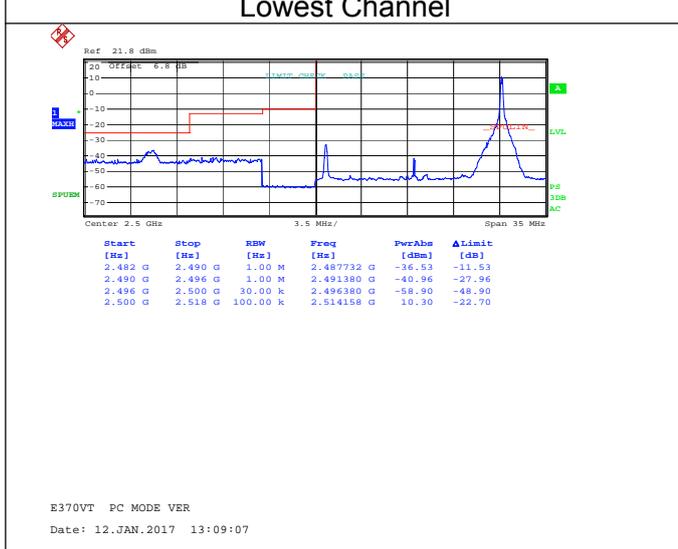




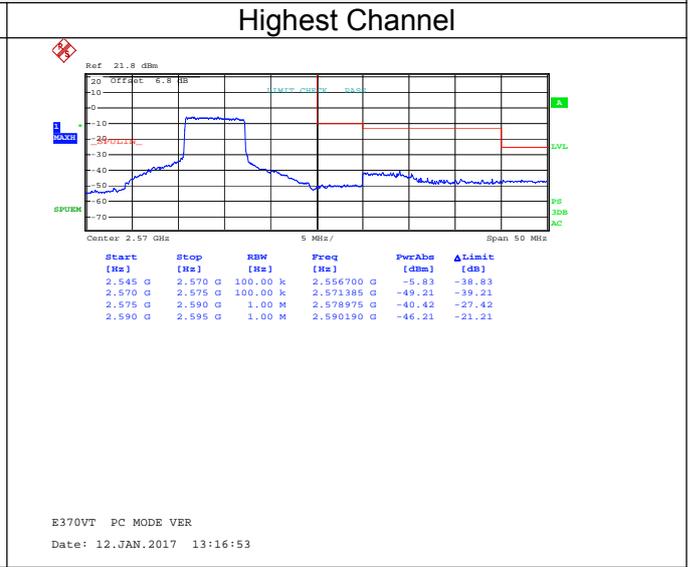
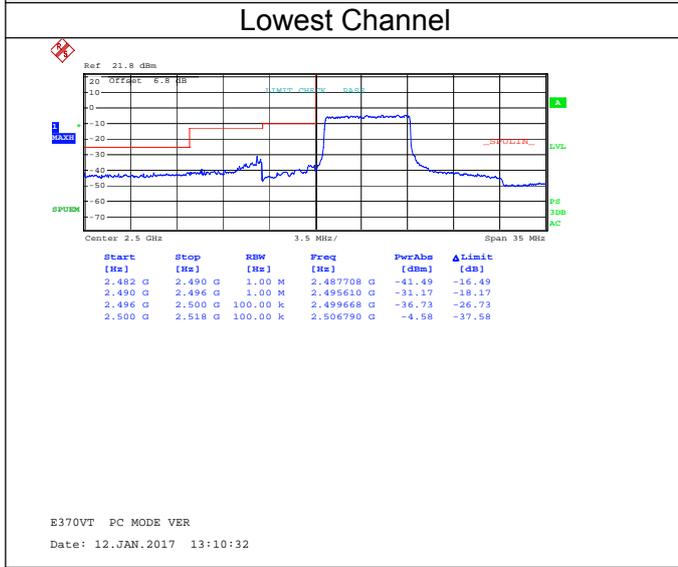
**Band 7 – 16QAM
15MHz – 1RB#0**



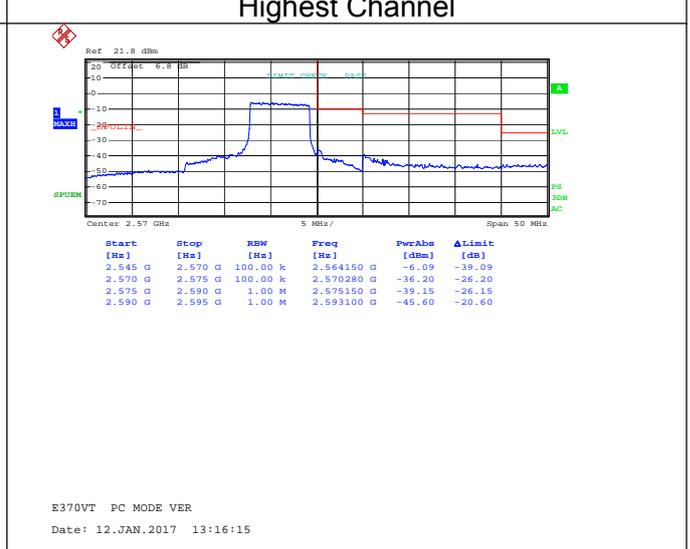
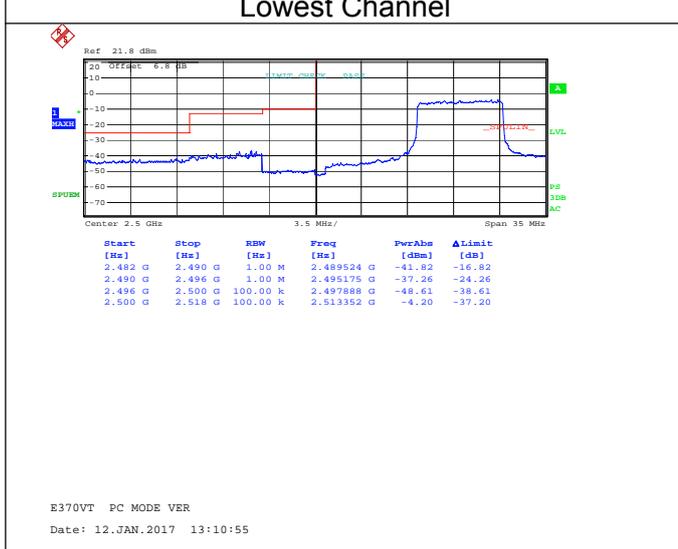
15MHz – 1RB#74

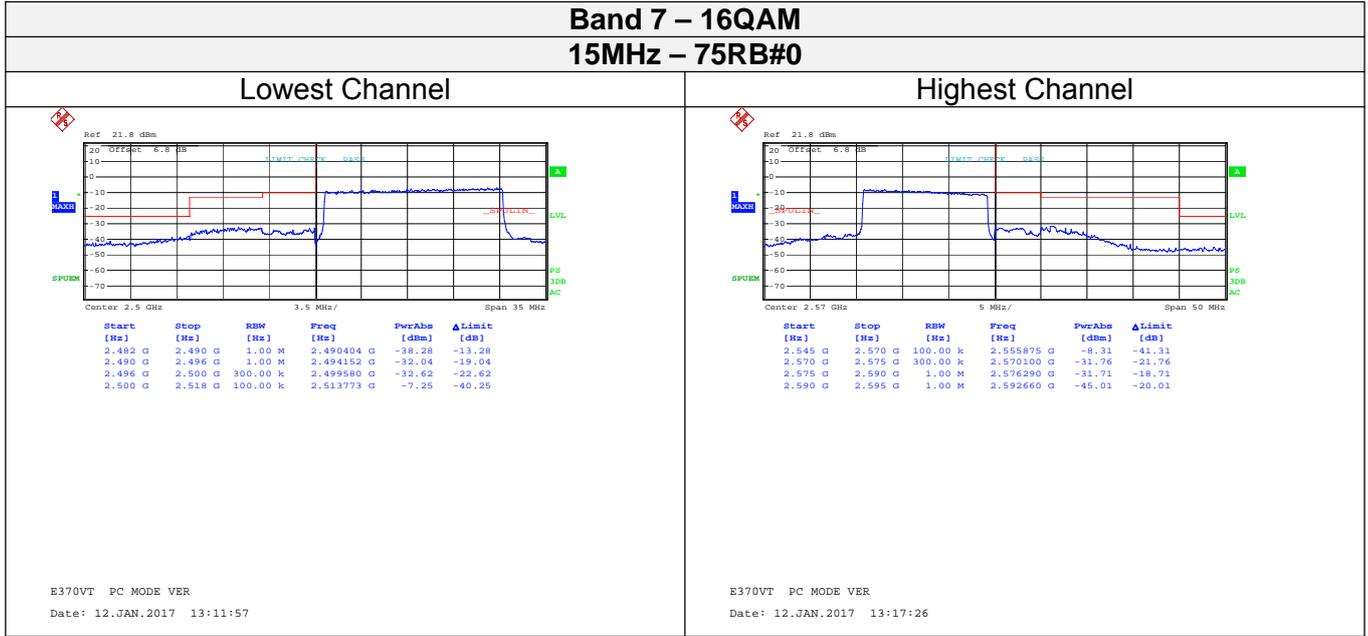


**Band 7 – 16QAM
15MHz – 36RB#0**

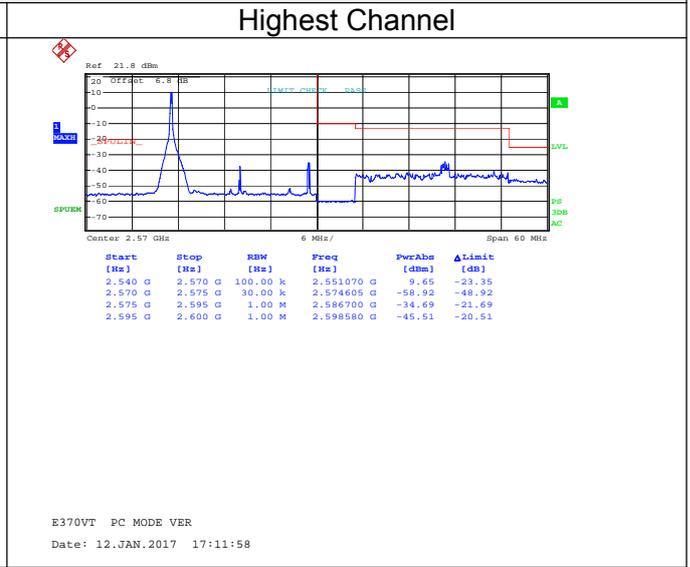
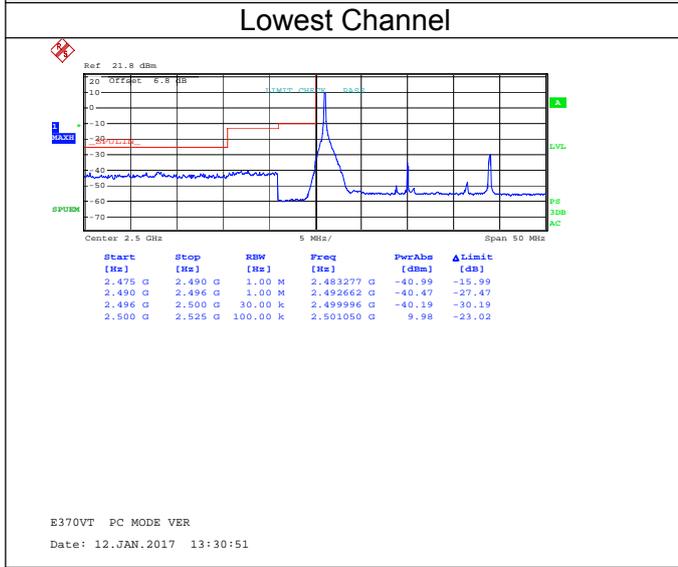


15MHz – 36RB#35

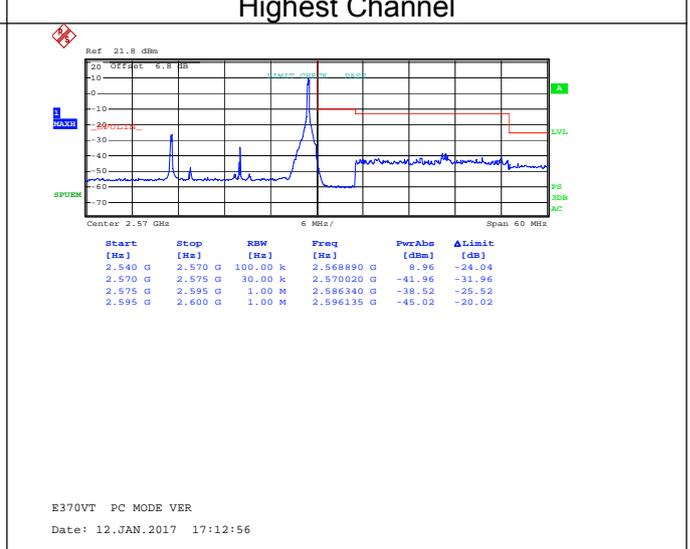
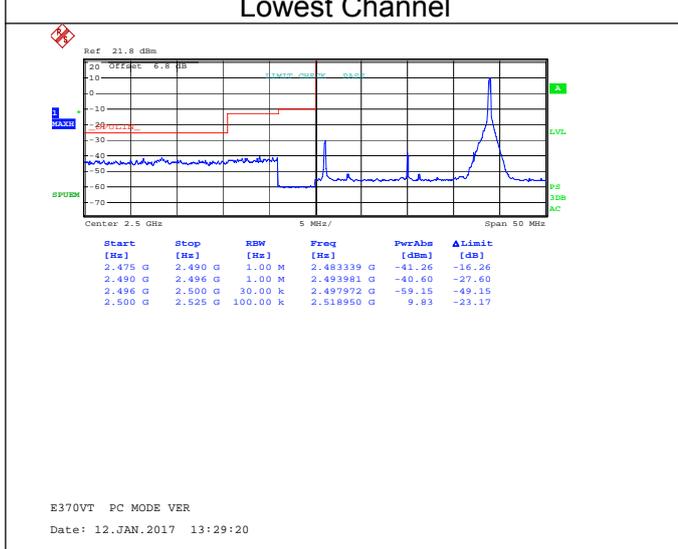




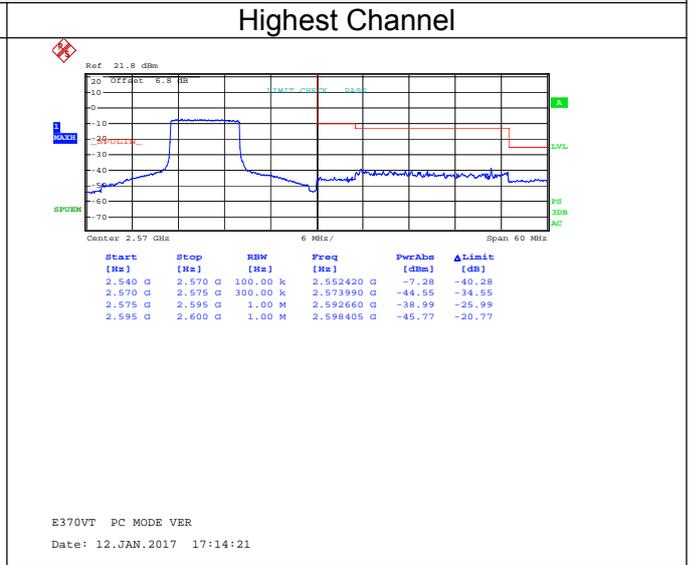
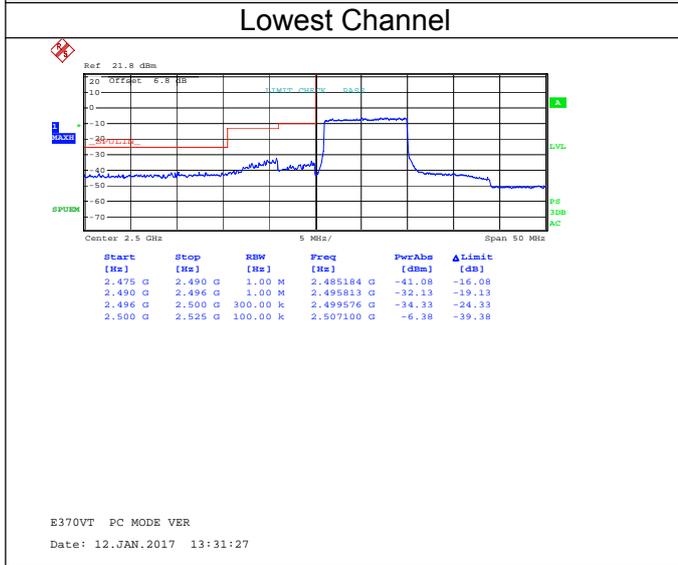
**Band 7 – QPSK
20MHz – 1RB#0**



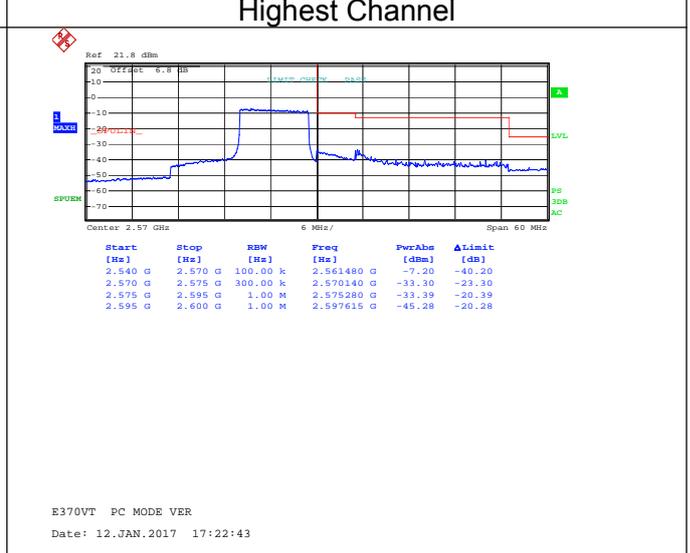
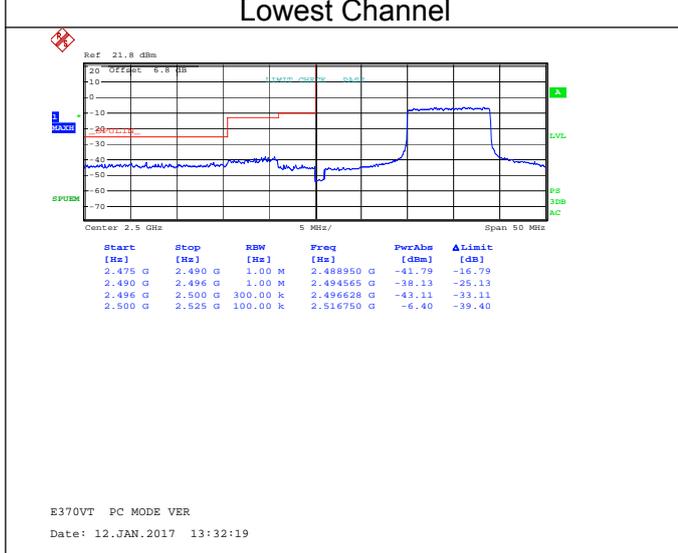
20MHz – 1RB#99

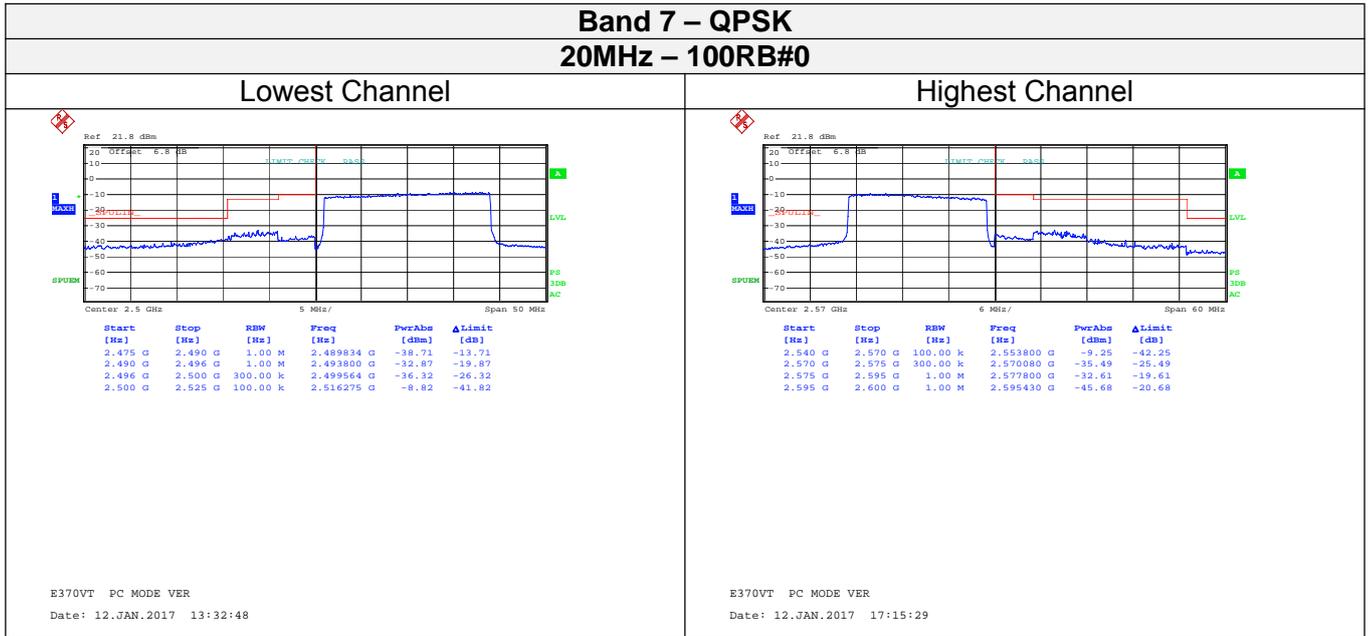


**Band 7 – QPSK
20MHz – 50RB#0**

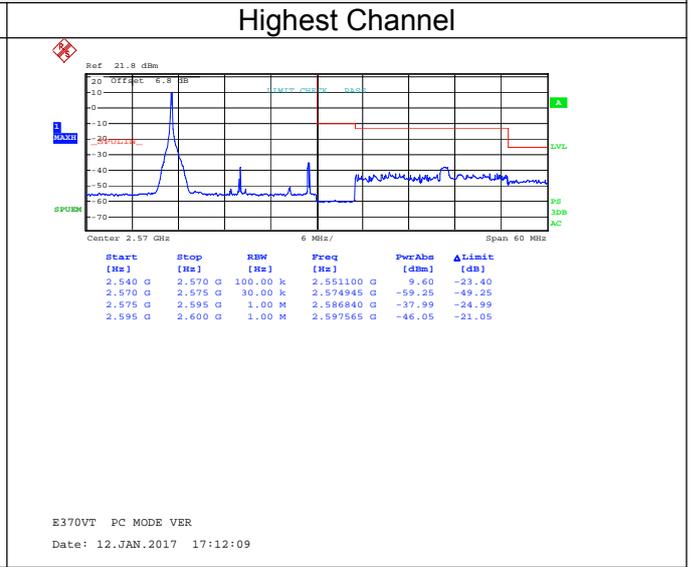
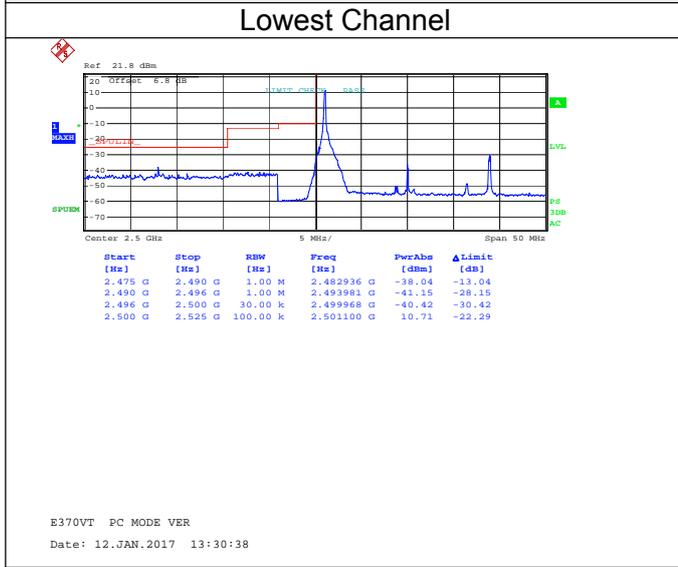


20MHz – 50RB#49

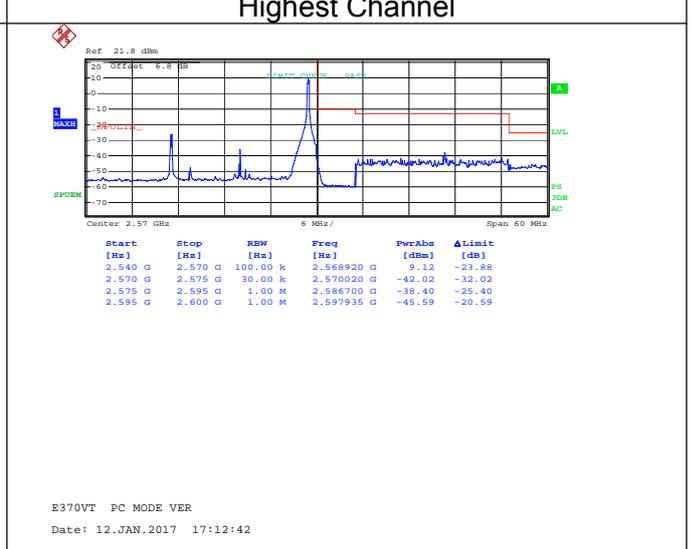
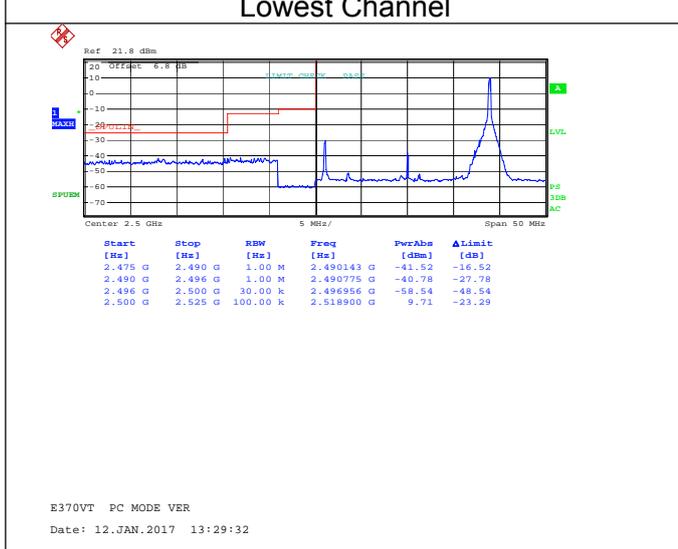




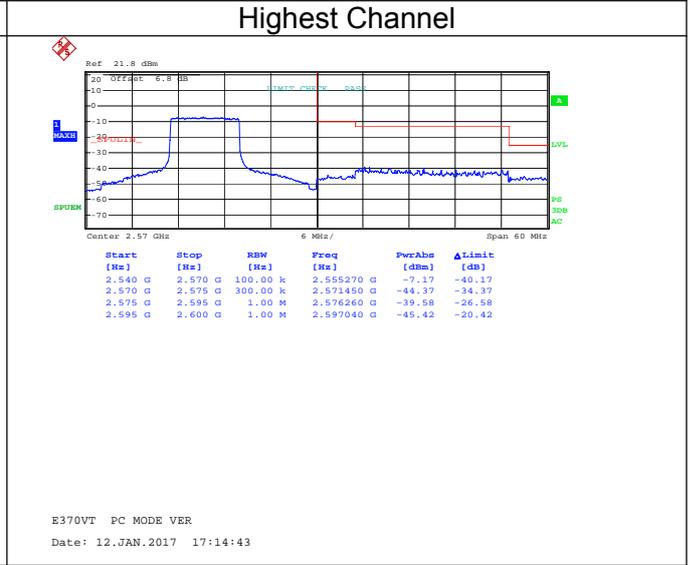
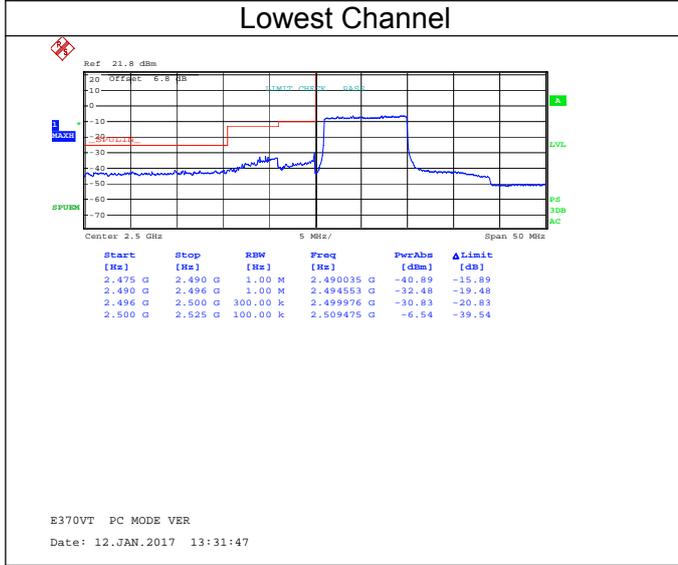
**Band 7 – 16QAM
20MHz – 1RB#0**



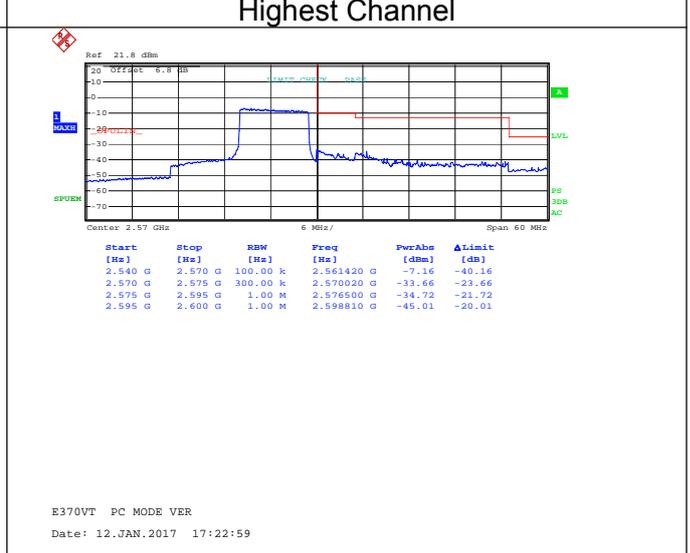
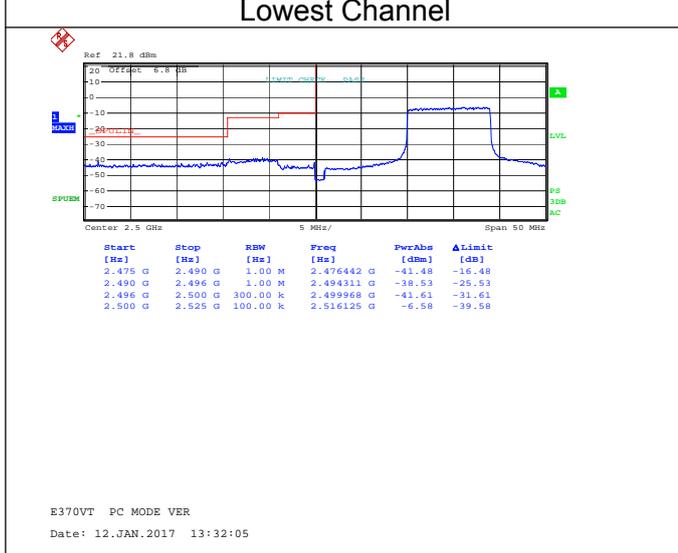
20MHz – 1RB#99

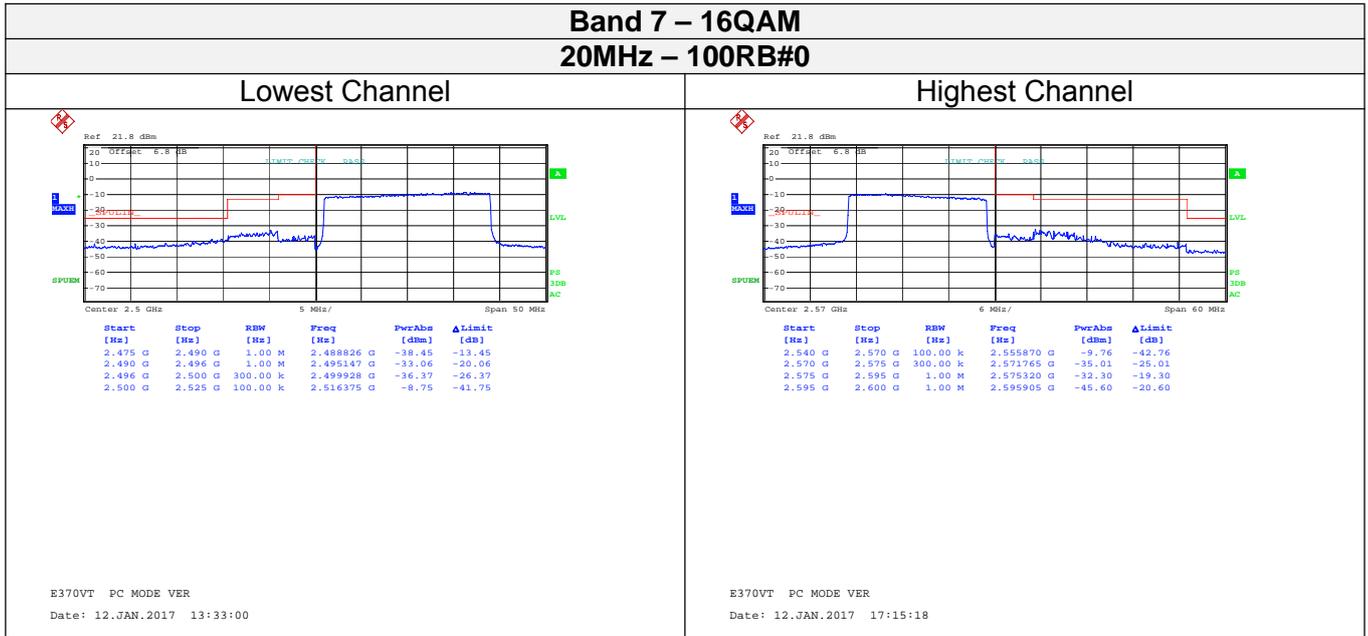


**Band 7 – 16QAM
20MHz – 50RB#0**



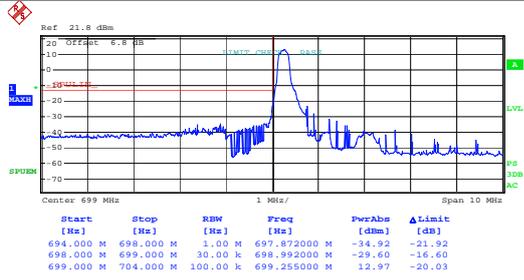
20MHz – 50RB#49





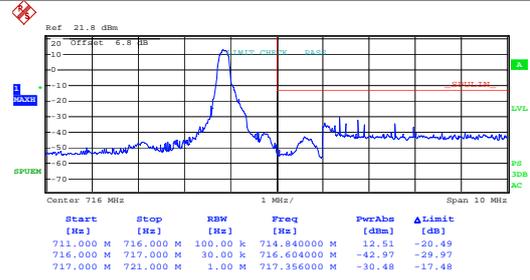
Band 12 – QPSK
1.4MHz – 1RB#0

Lowest Channel



E370VT PC MODE VER
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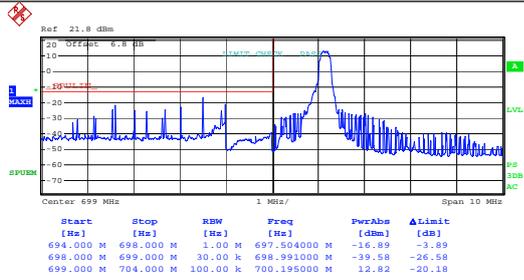
Highest Channel



E370VT PC MODE VER
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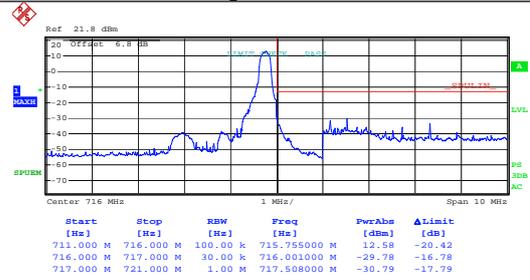
1.4MHz – 1RB#5

Lowest Channel



E370VT PC MODE VER
Date: 12.JAN.2017 13:52:54

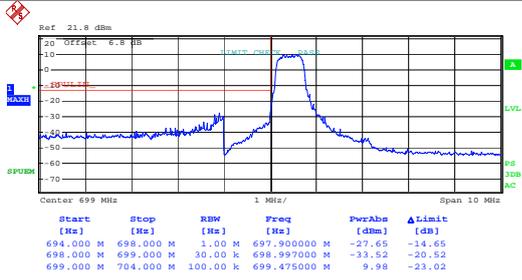
Highest Channel



E370VT PC MODE VER
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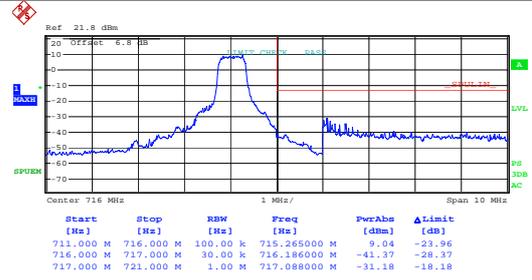
**Band 12 – QPSK
1.4MHz – 3RB#0**

Lowest Channel



E370VT PC MODE VER
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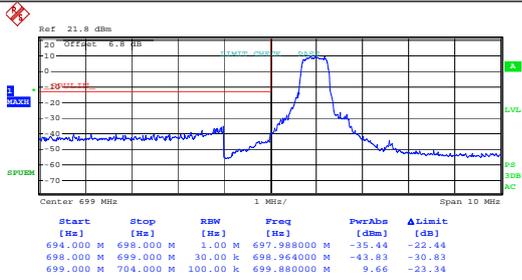
Highest Channel



E370VT PC MODE VER
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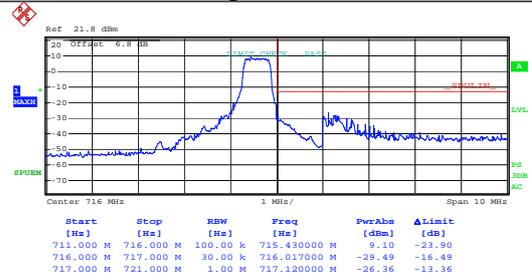
1.4MHz – 3RB#2

Lowest Channel

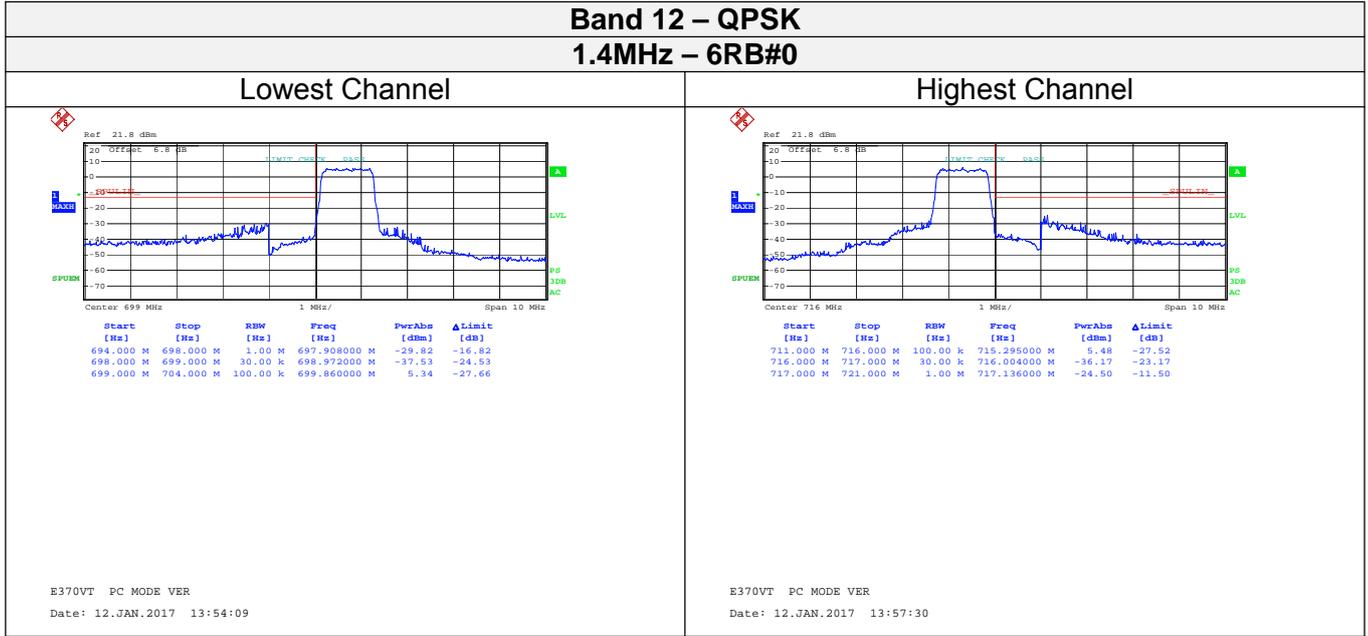


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Date: 12.JAN.2017 13:53:16

Highest Channel

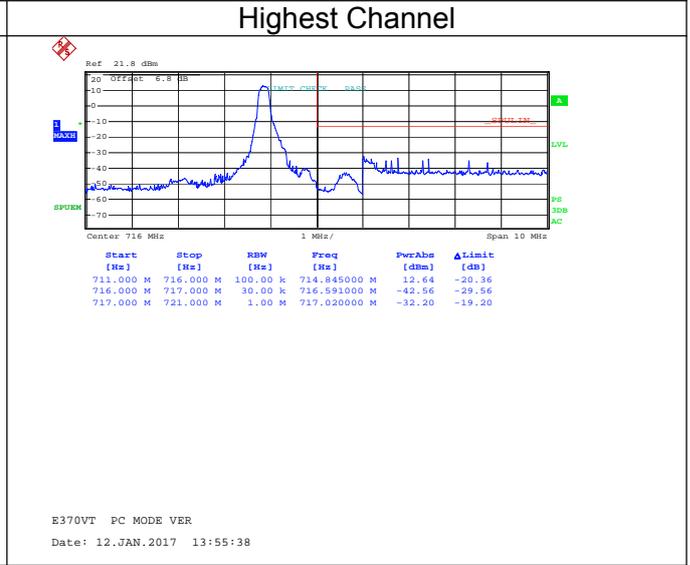
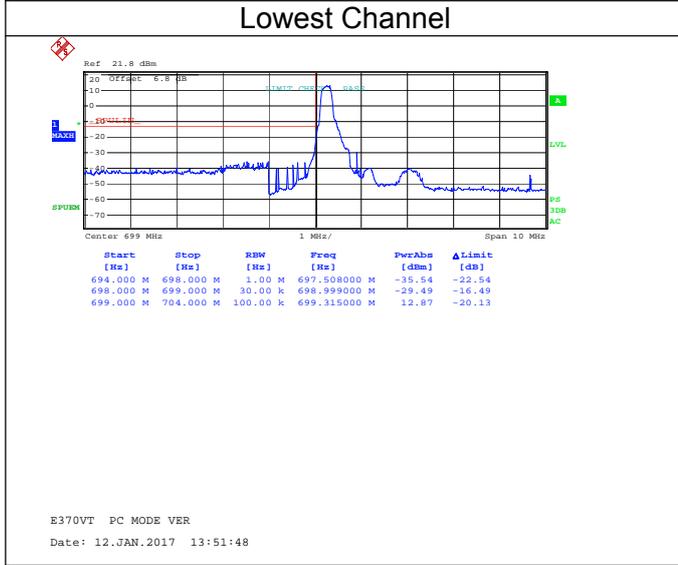


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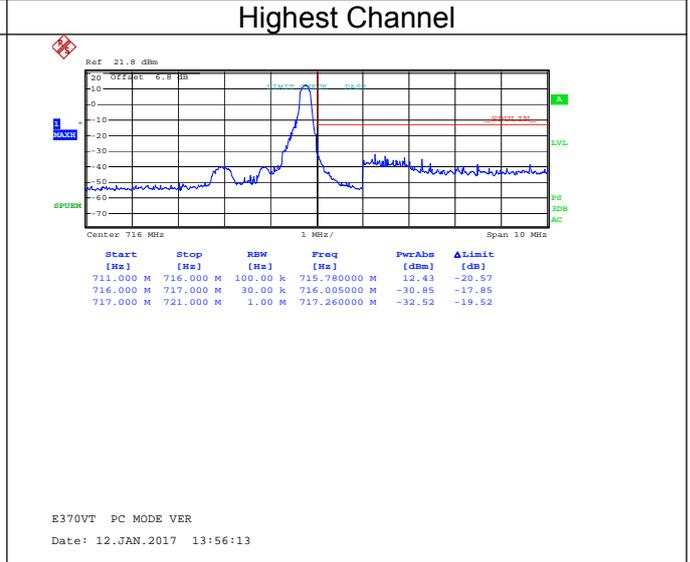
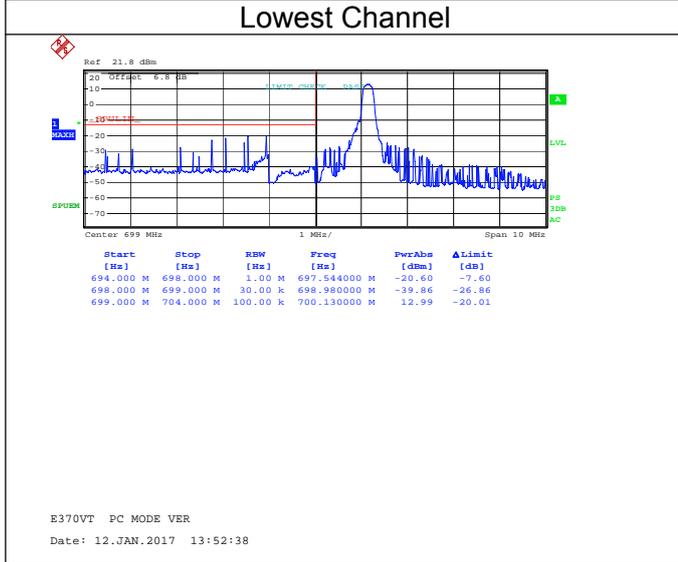


Band 12 – 16QAM

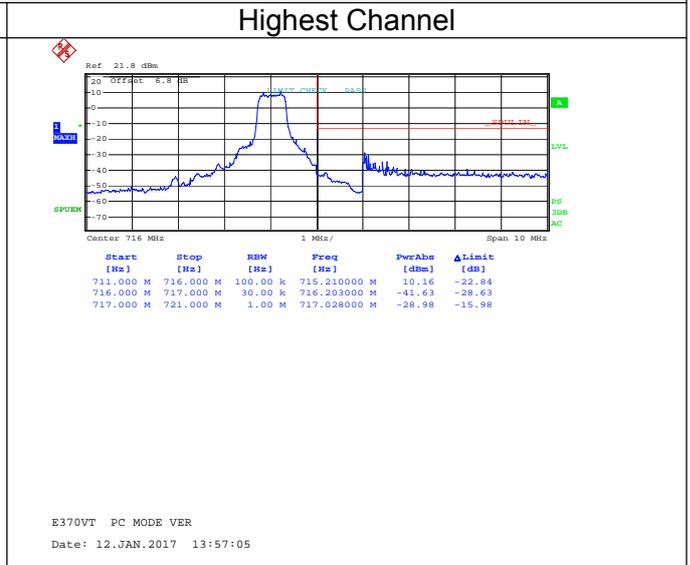
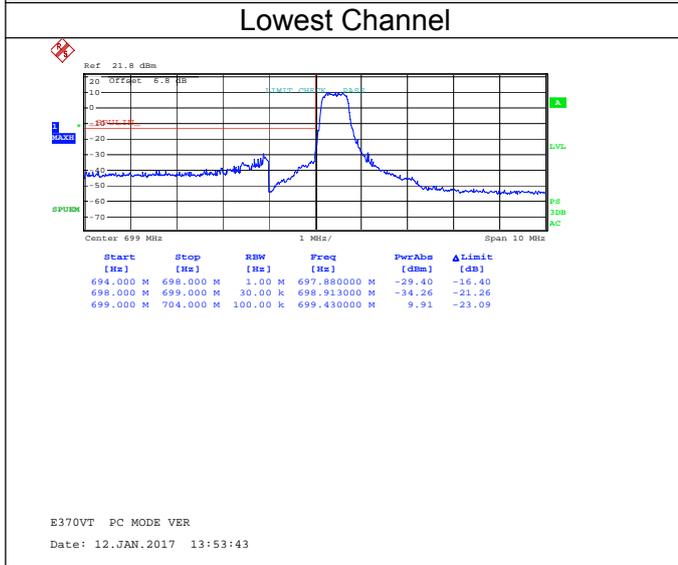
1.4MHz – 1RB#0



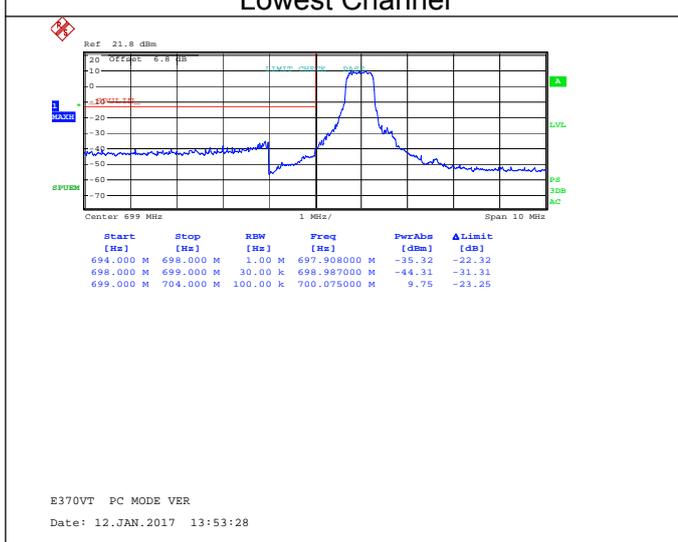
1.4MHz – 1RB#5

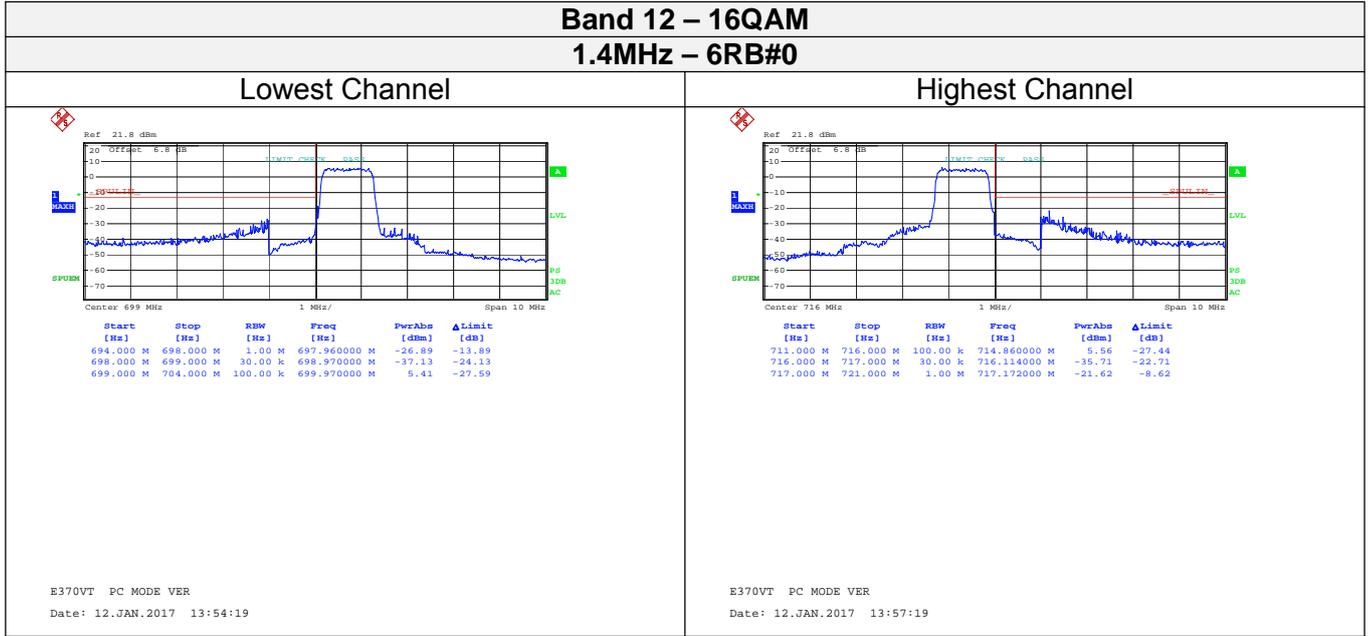


**Band 12 – 16QAM
1.4MHz – 3RB#0**



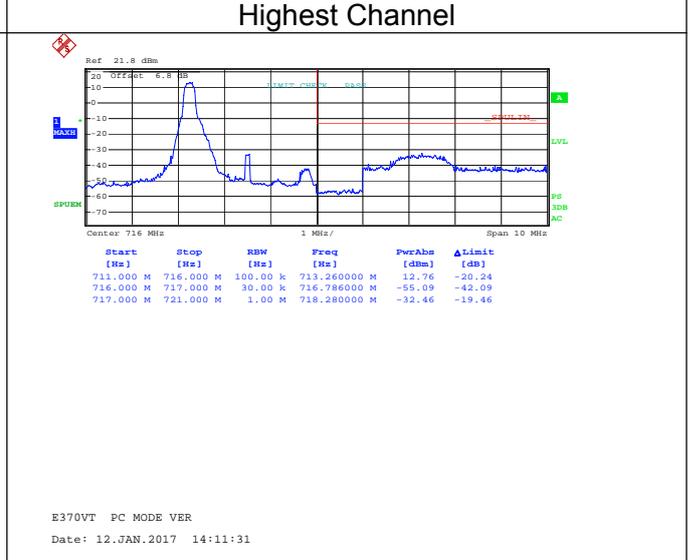
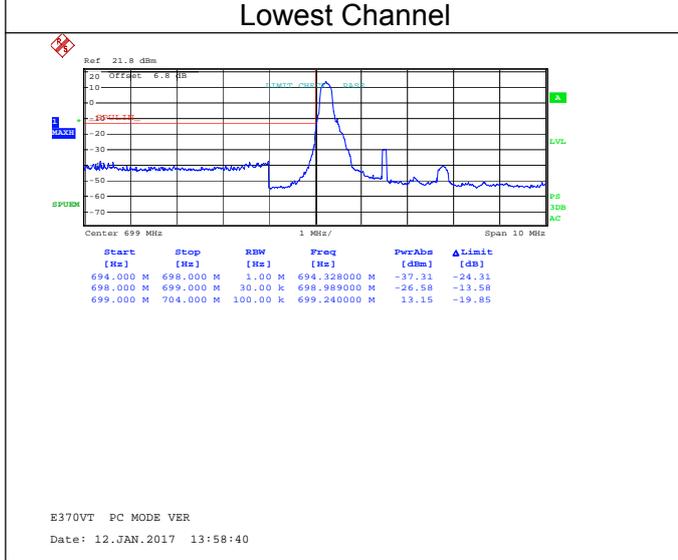
1.4MHz – 3RB#2



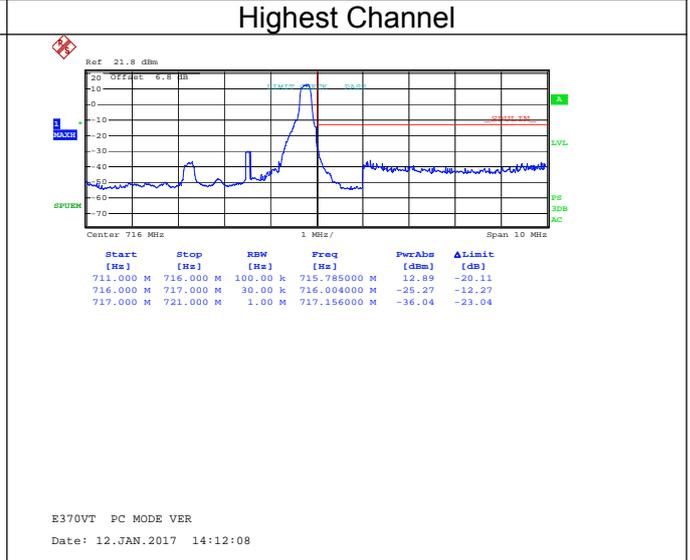
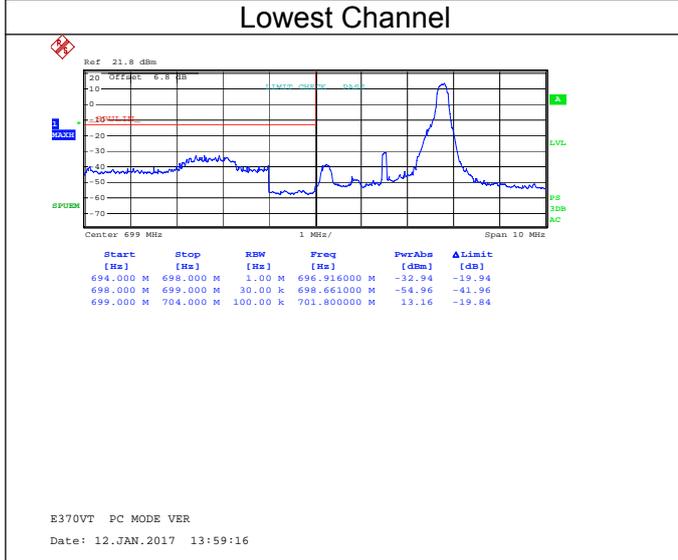


Band 12 – QPSK

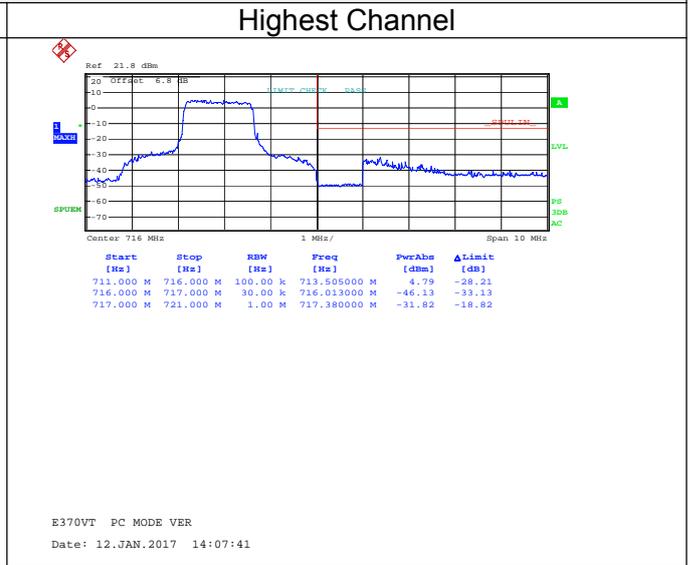
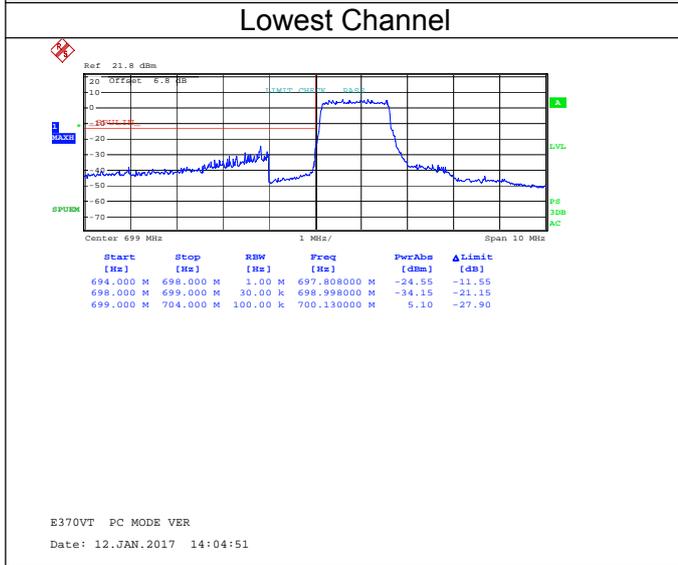
3MHz – 1RB#0



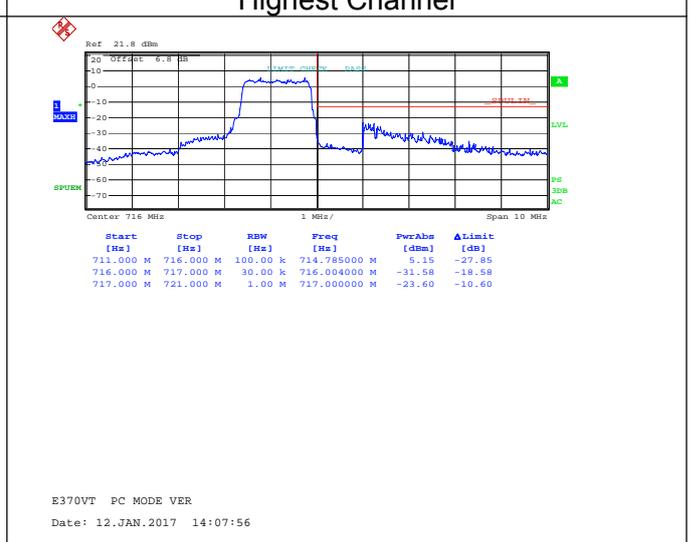
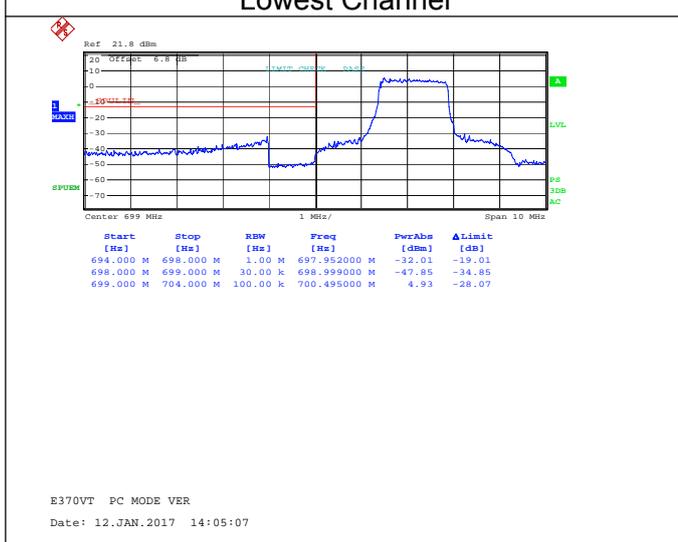
3MHz – 1RB#14

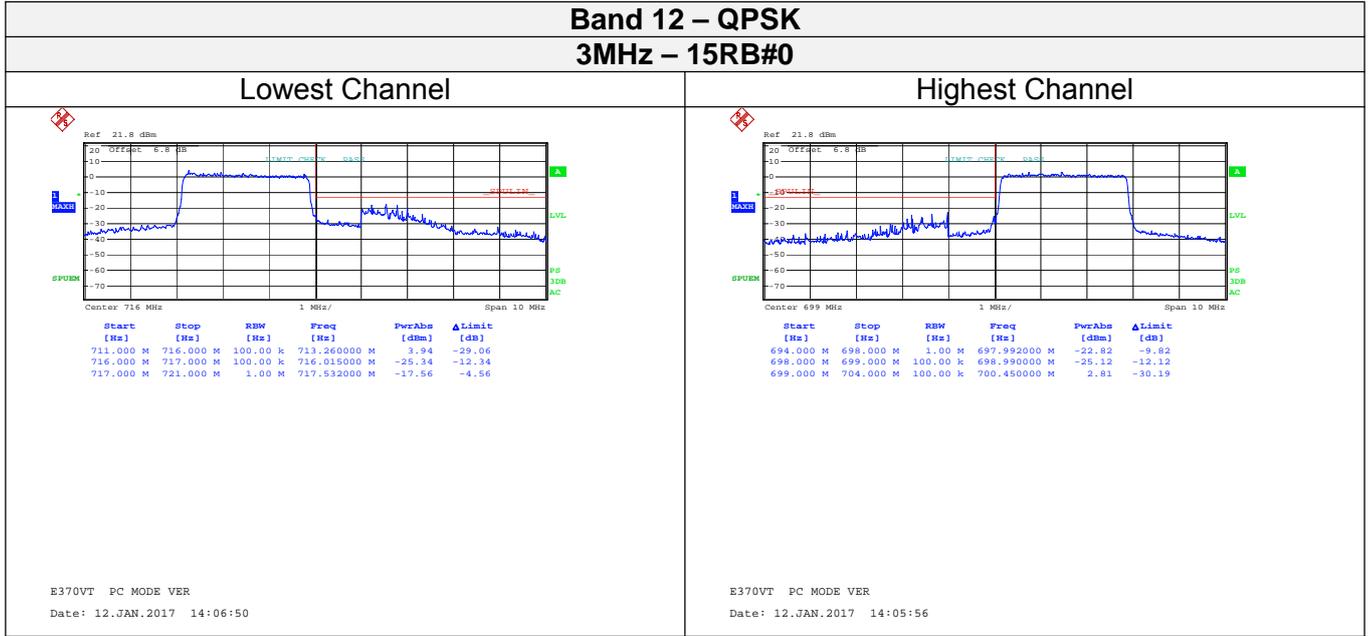


**Band 12 – QPSK
3MHz – 8RB#0**



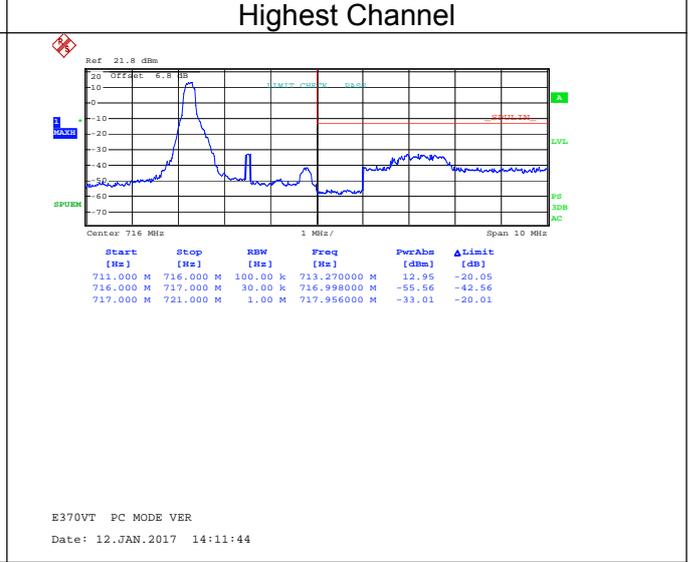
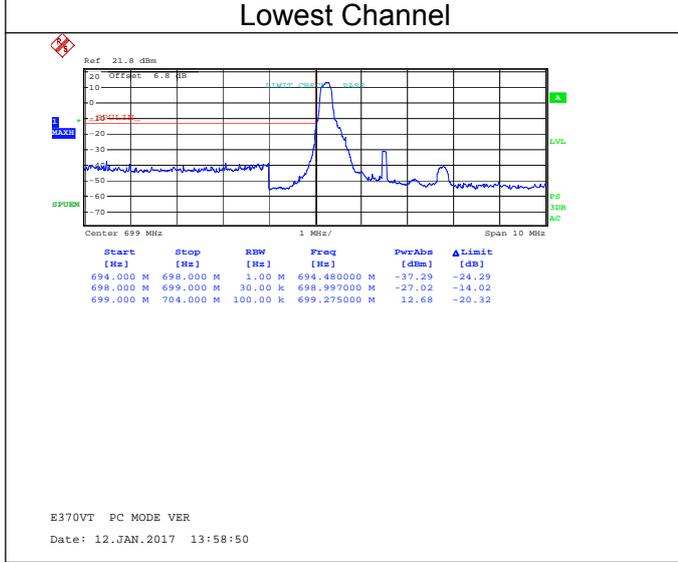
3MHz – 8RB#7



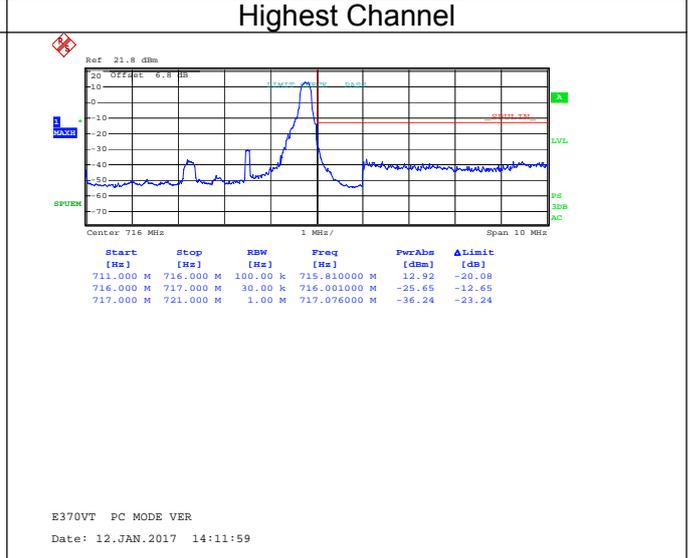
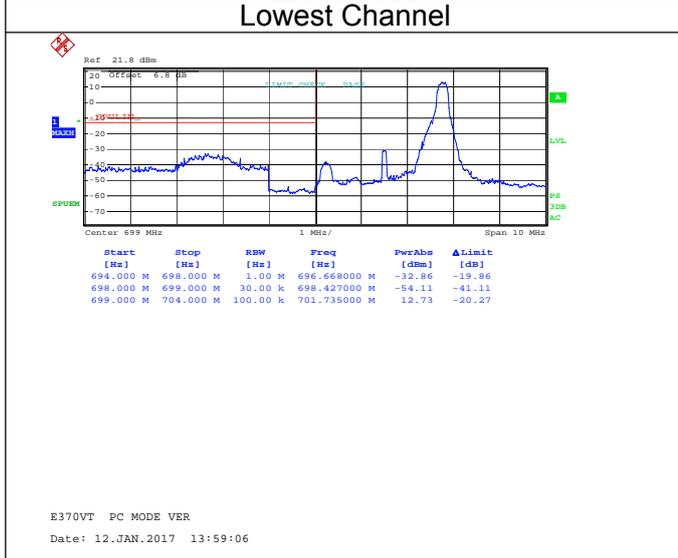


Band 12 – 16QAM

3MHz – 1RB#0



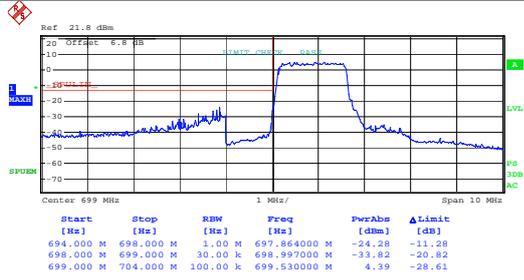
3MHz – 1RB#14



Band 12 – 16QAM

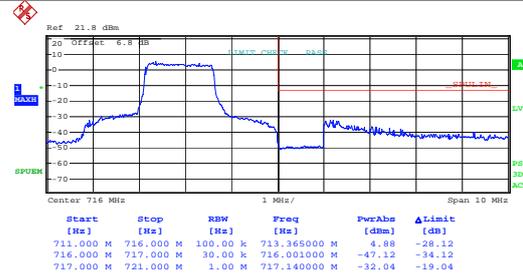
3MHz – 8RB#0

Lowest Channel



E370VT PC MODE VER
Date: 12.JAN.2017 14:04:33

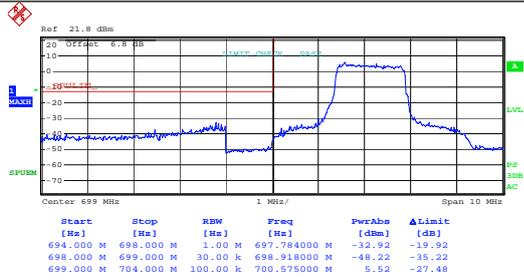
Highest Channel



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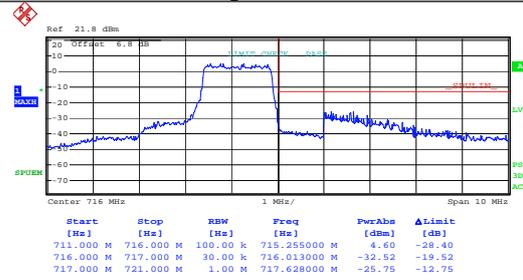
3MHz – 8RB#7

Lowest Channel

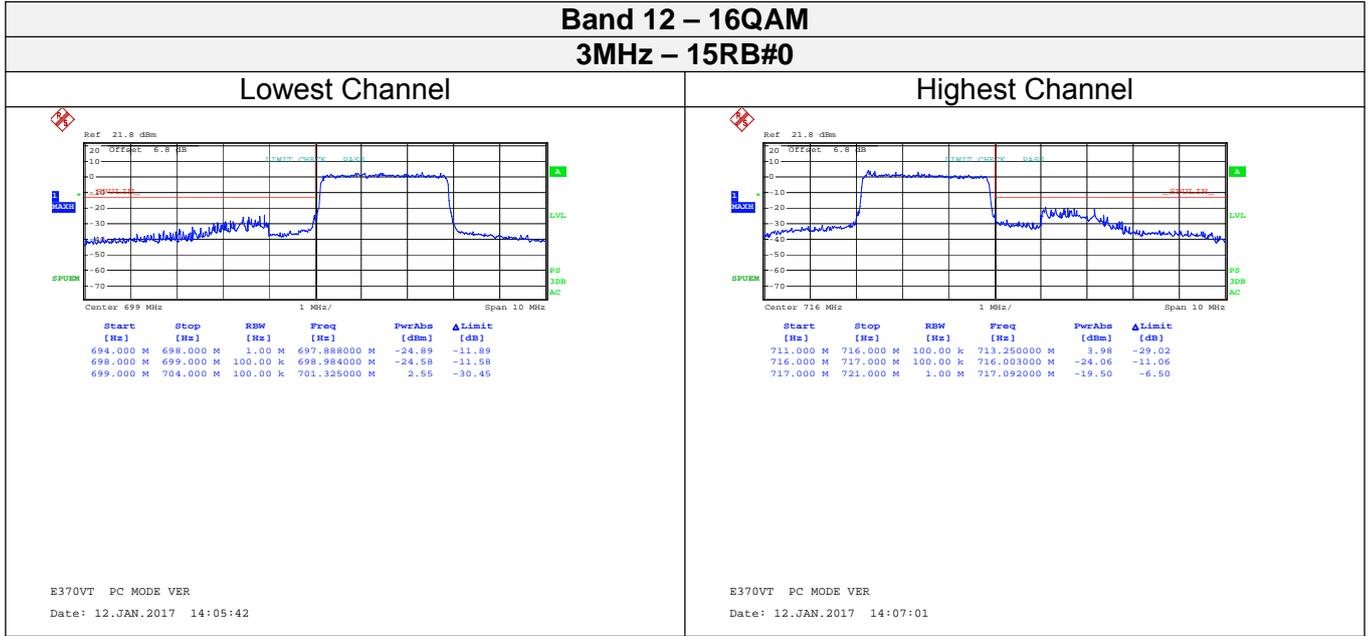


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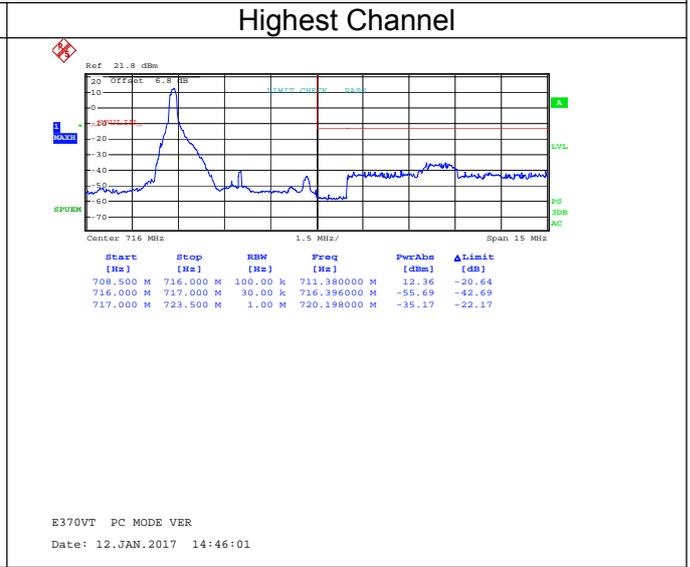
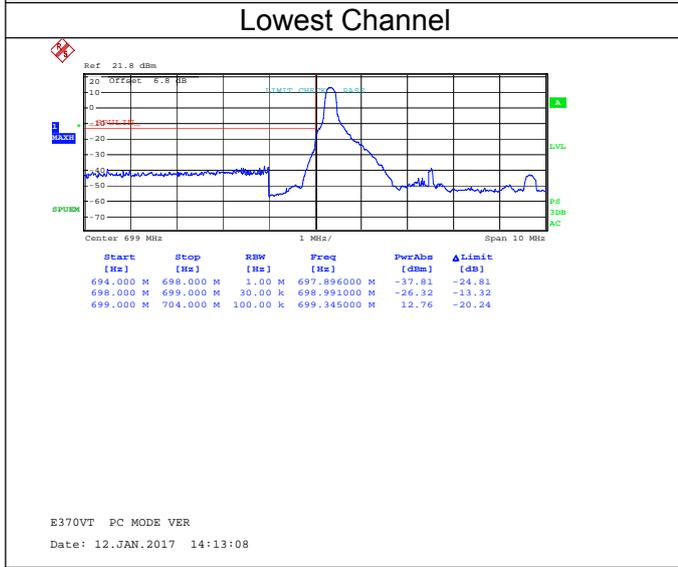
Highest Channel



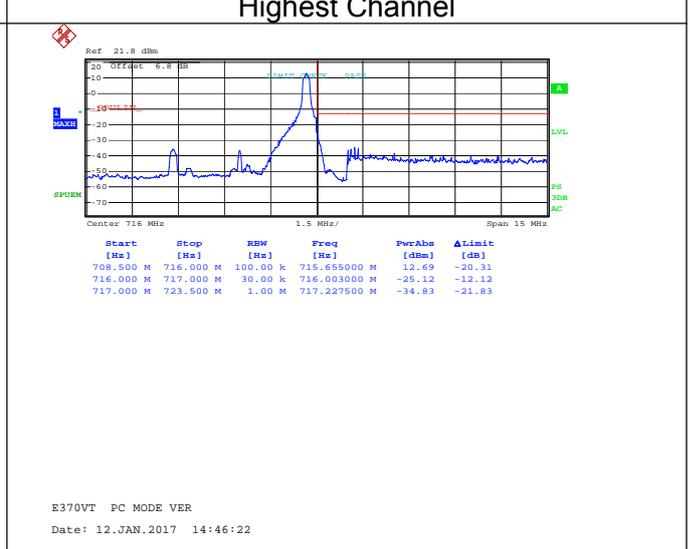
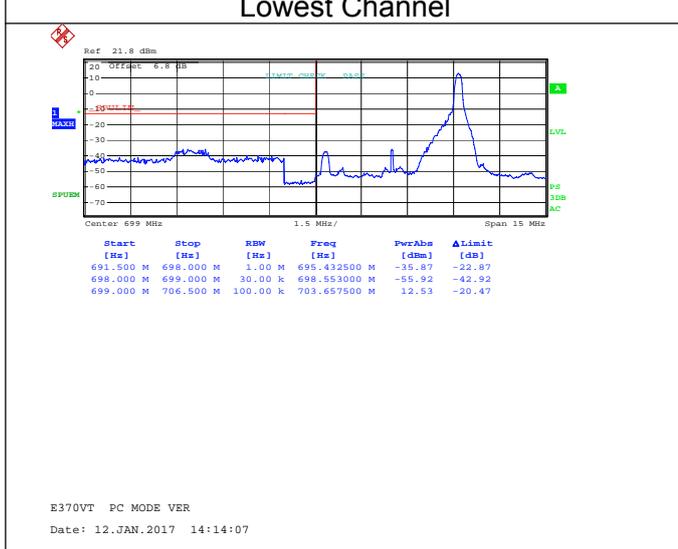
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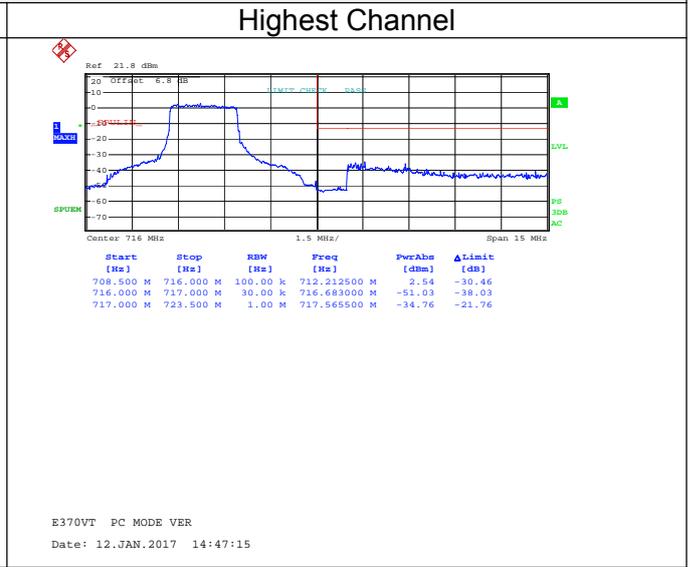
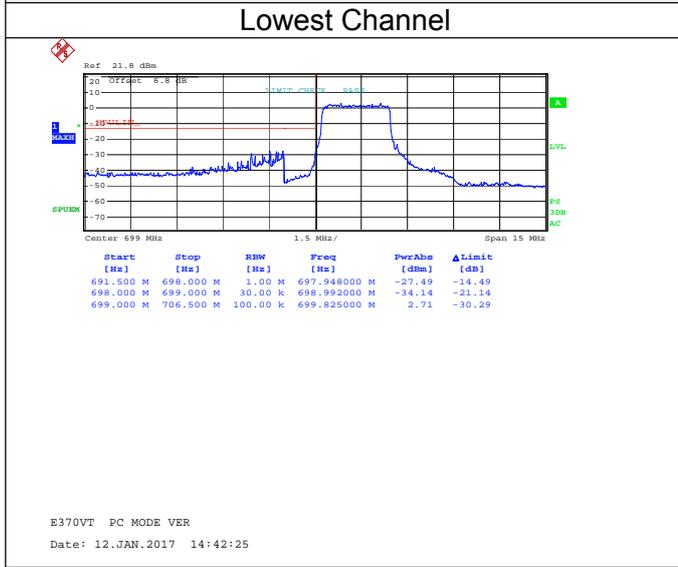
**Band 12 – QPSK
5MHz – 1RB#0**



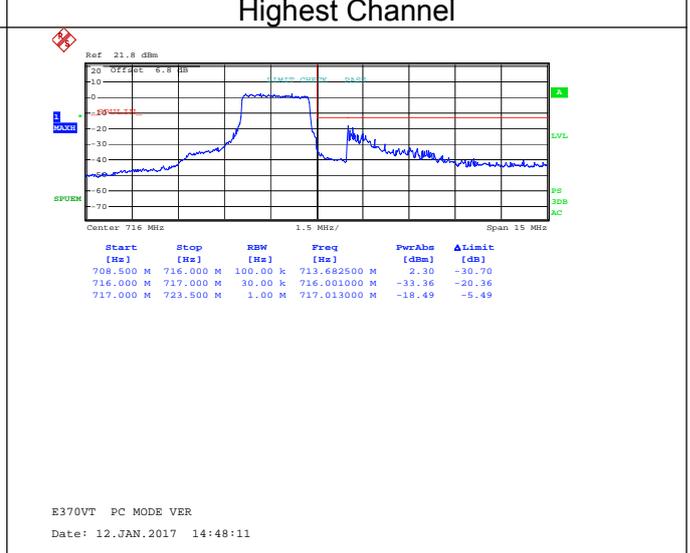
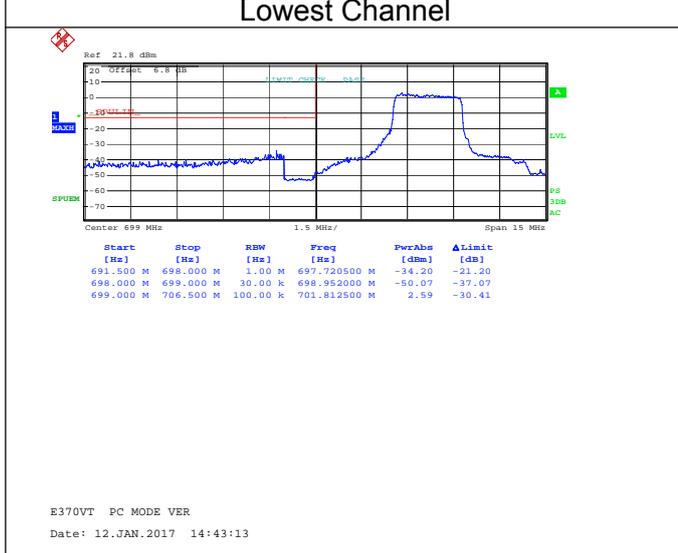
5MHz – 1RB#24

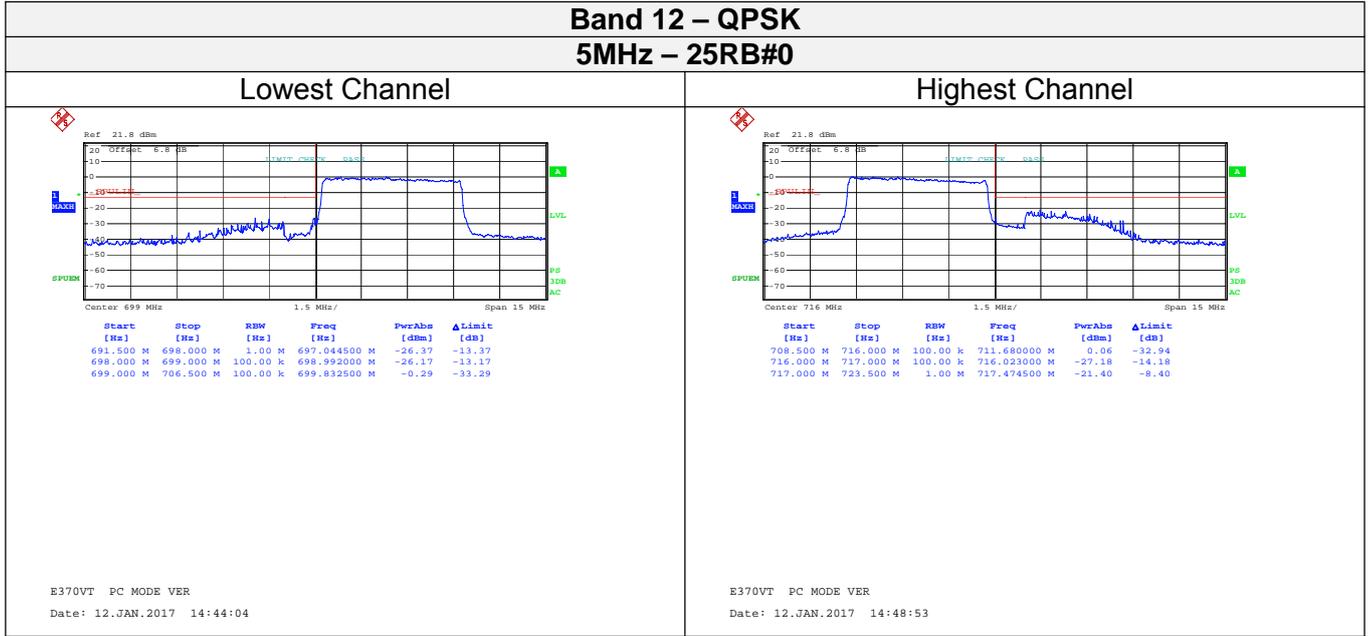


**Band 12 – QPSK
5MHz – 12RB#0**



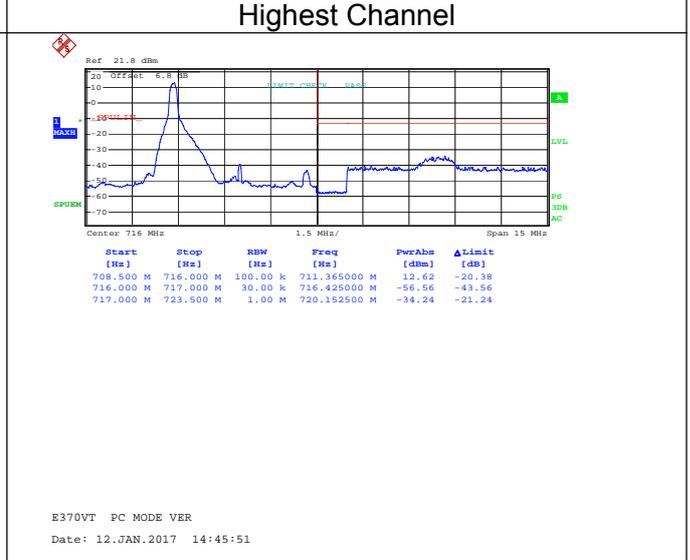
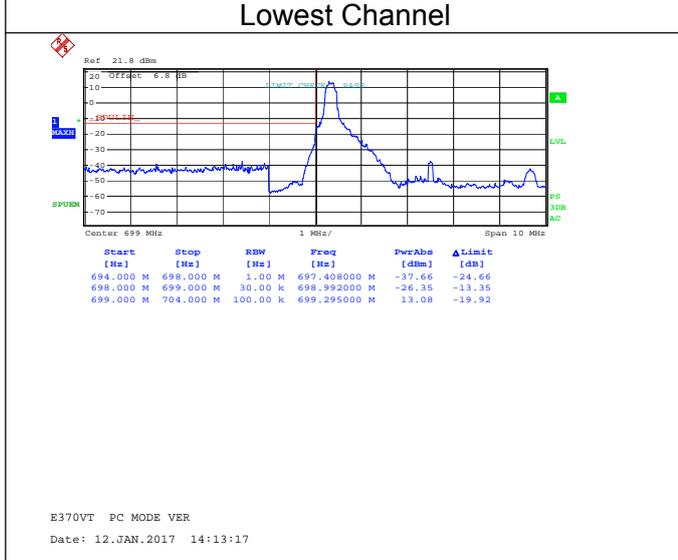
5MHz – 12RB#11



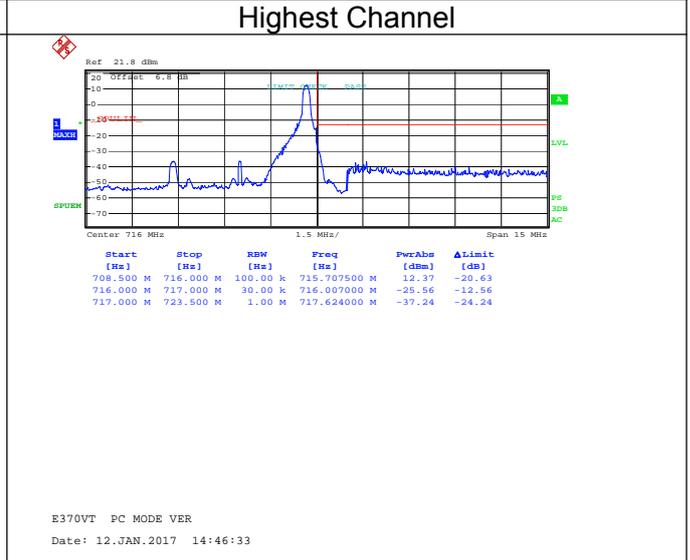
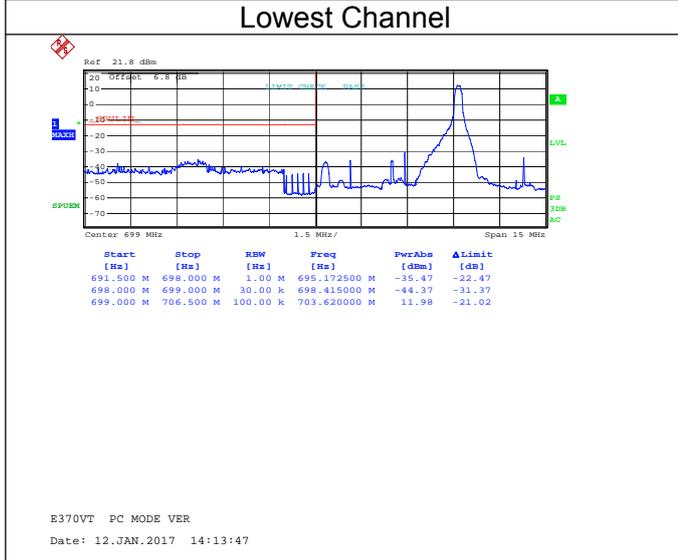


Band 12 – 16QAM

5MHz – 1RB#0

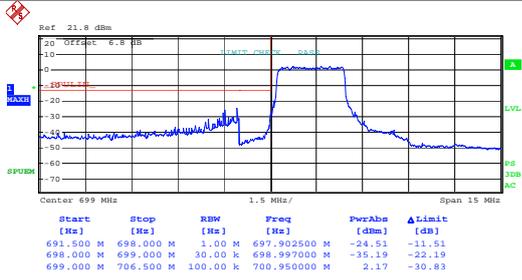


5MHz – 1RB#24



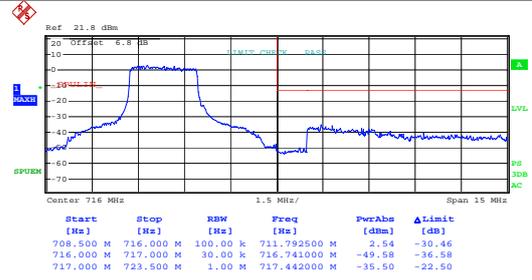
**Band 12 – 16QAM
5MHz – 12RB#0**

Lowest Channel



E370VT PC MODE VER
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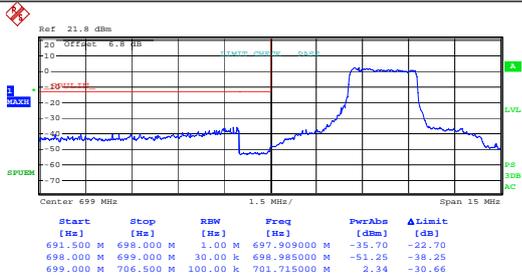
Highest Channel



E370VT PC MODE VER
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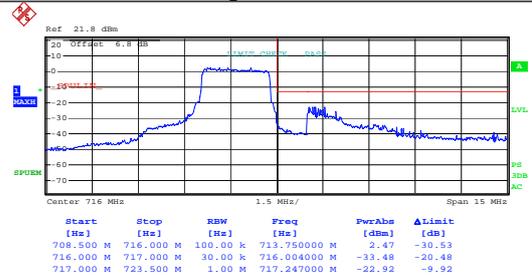
5MHz – 12RB#11

Lowest Channel

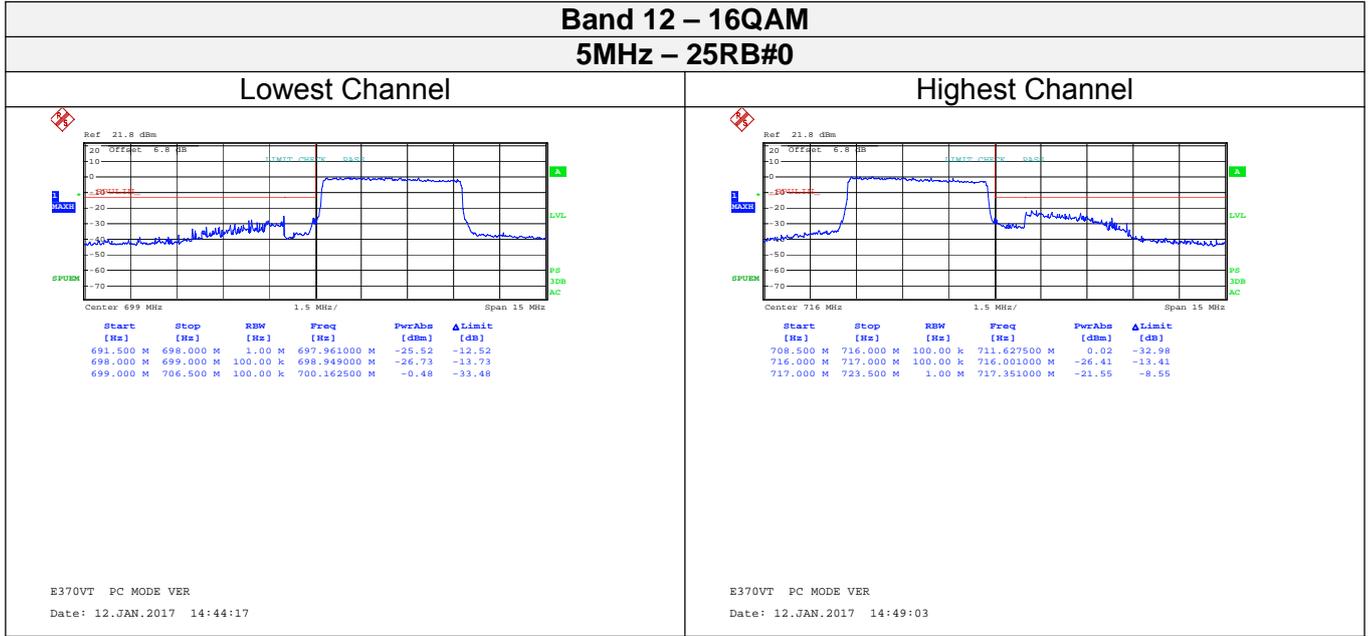


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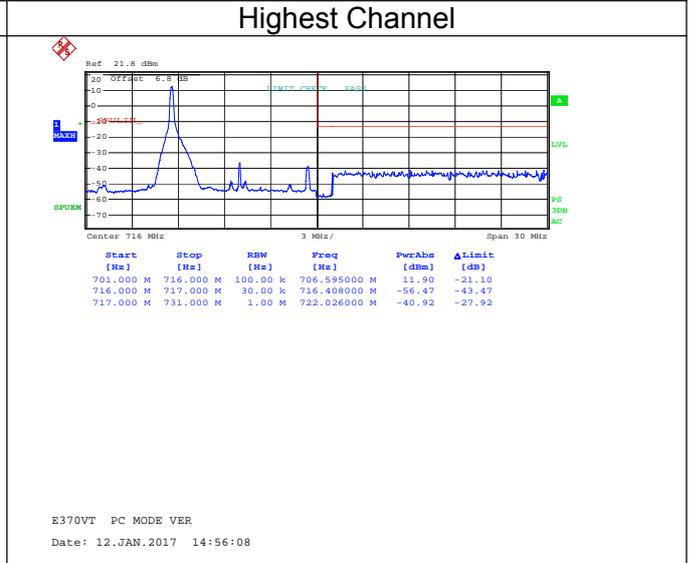
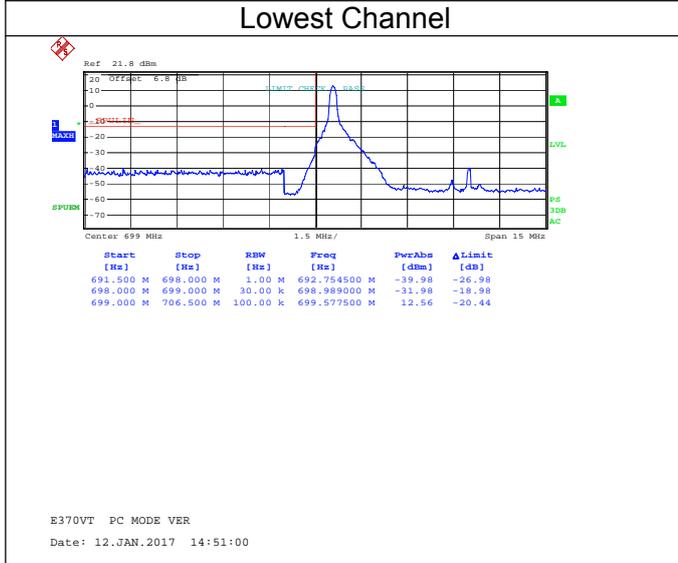
Highest Channel



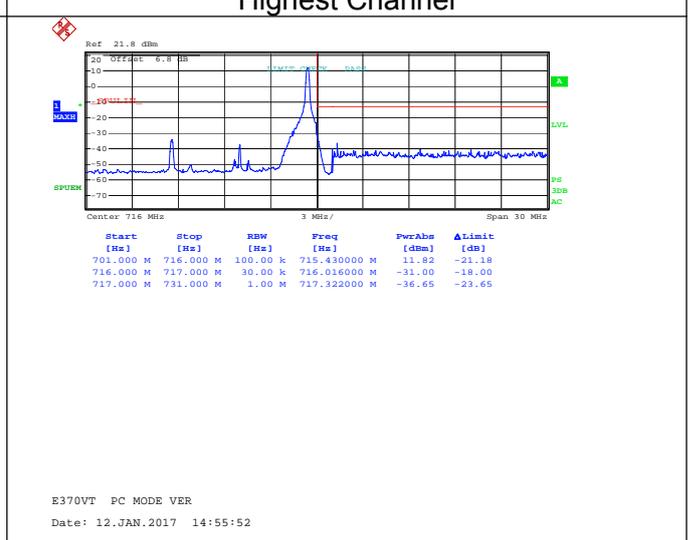
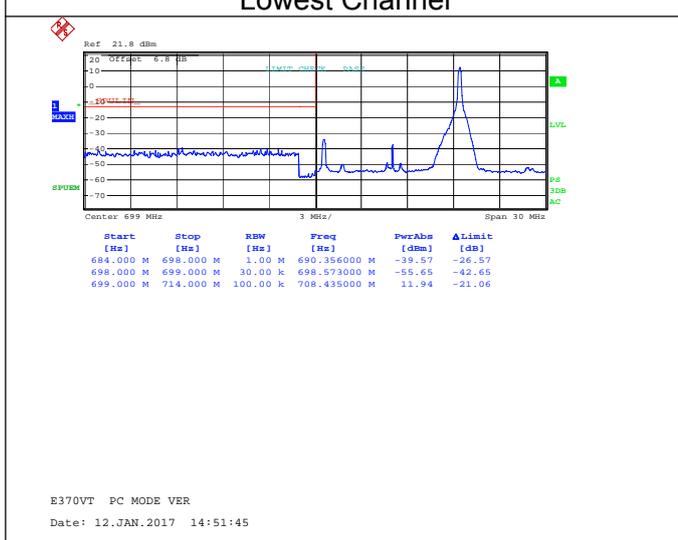
E370VT PC MODE VER
Date: 12.JAN.2017 14:48:01



**Band 12 – QPSK
10MHz – 1RB#0**

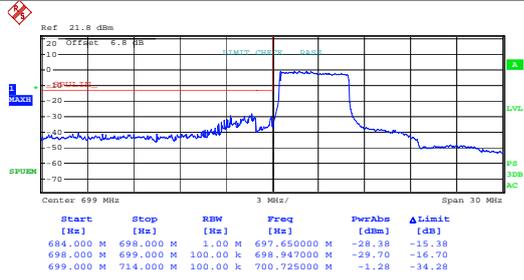


10MHz – 1RB#49



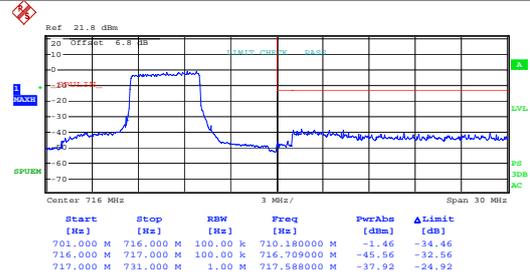
**Band 12 – QPSK
10MHz – 25RB#0**

Lowest Channel



E370VT PC MODE VER
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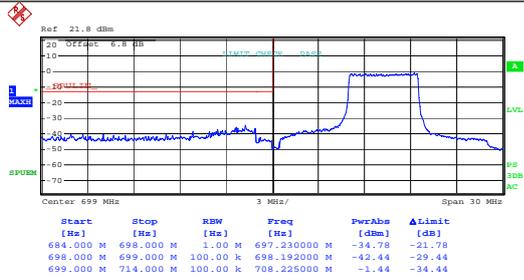
Highest Channel



E370VT PC MODE VER
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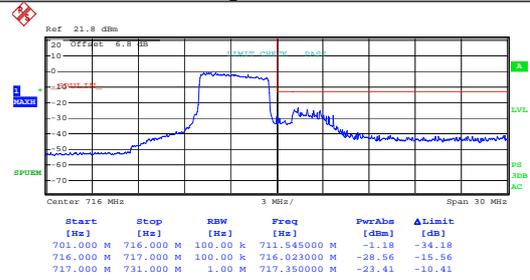
10MHz – 25RB#24

Lowest Channel

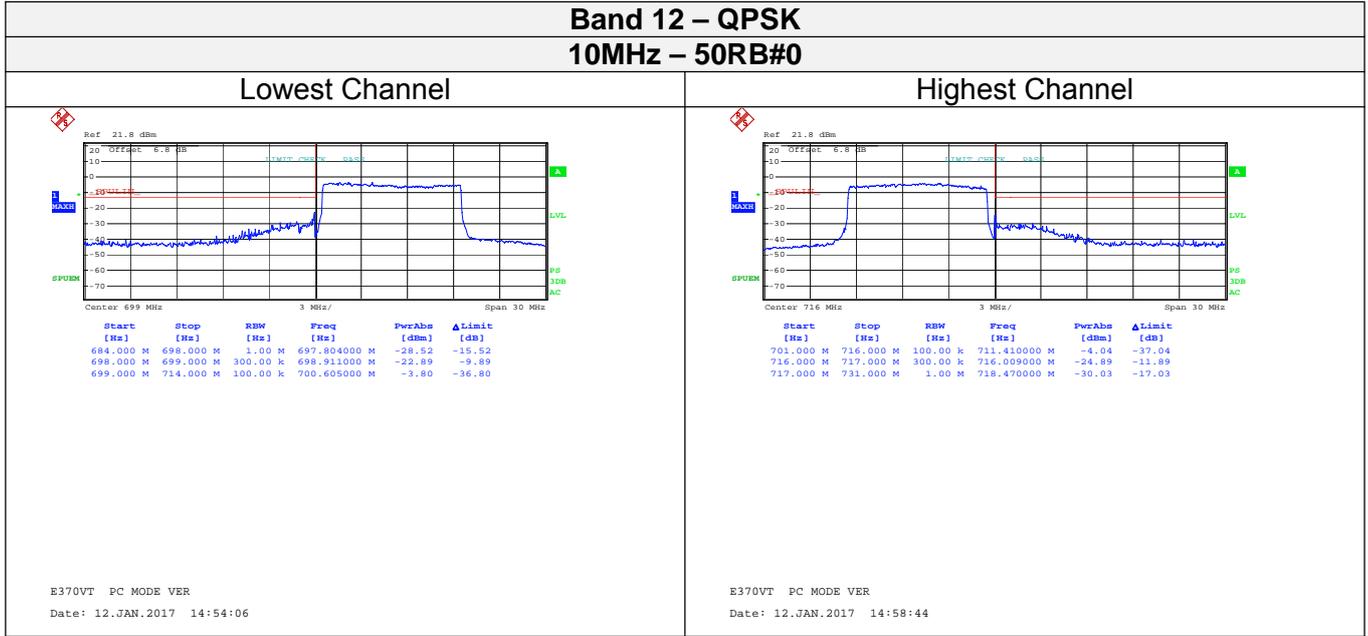


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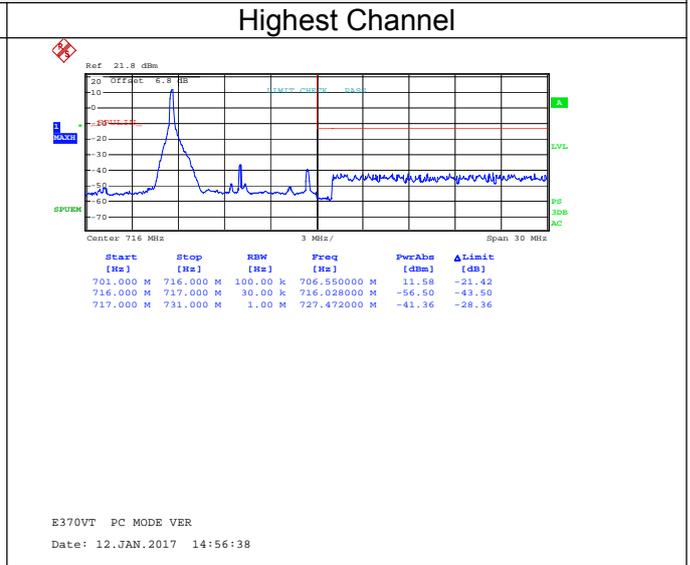
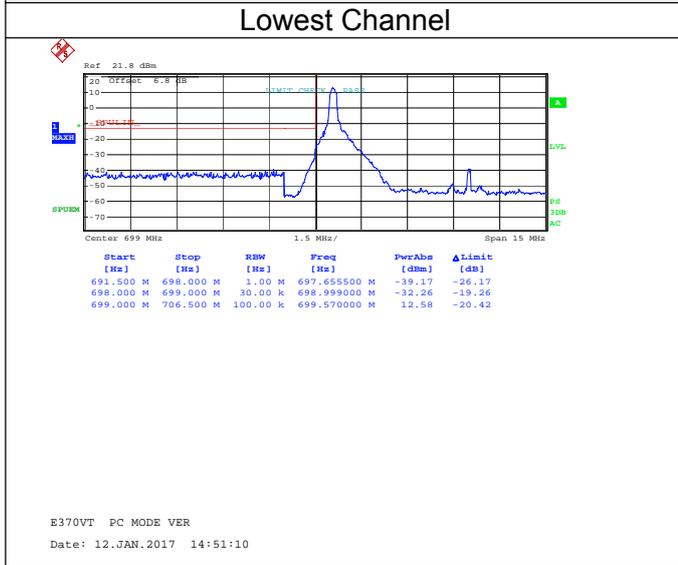
Highest Channel



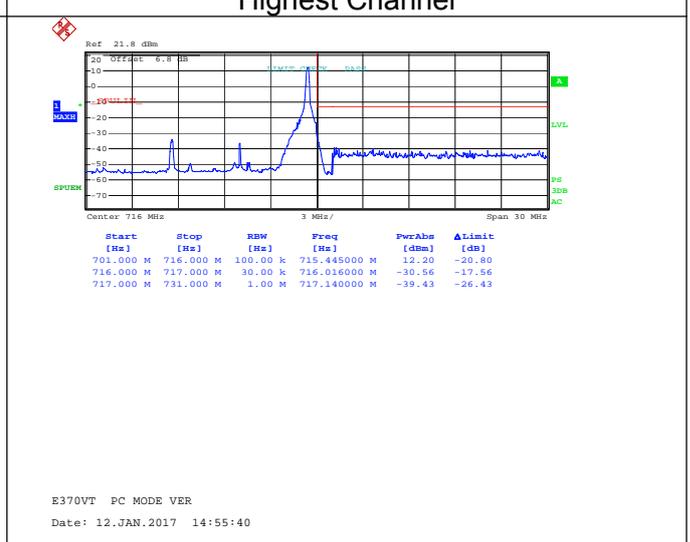
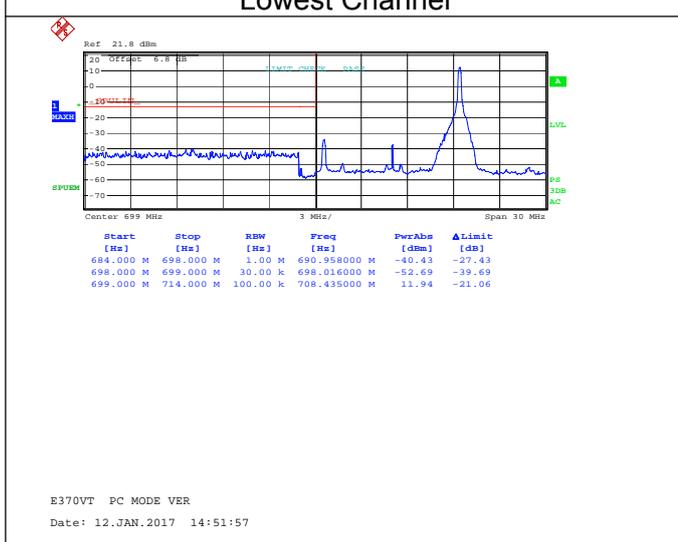
E370VT PC MODE VER
Date: 12.JAN.2017 14:57:50



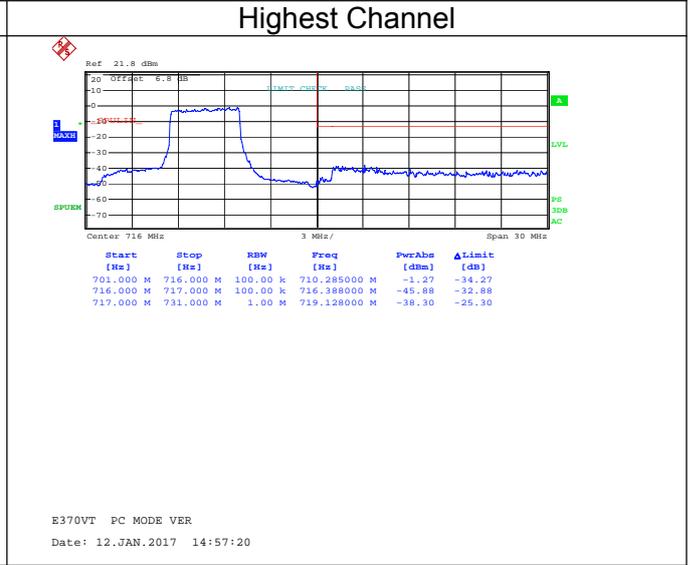
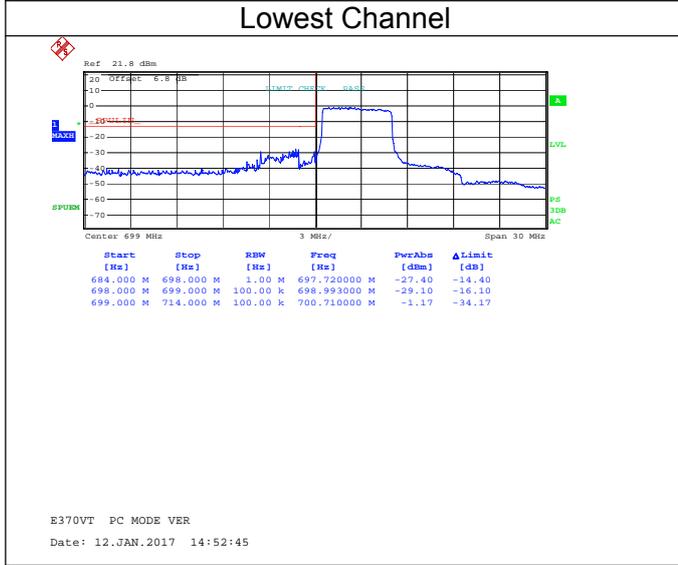
**Band 12 – 16QAM
10MHz – 1RB#0**



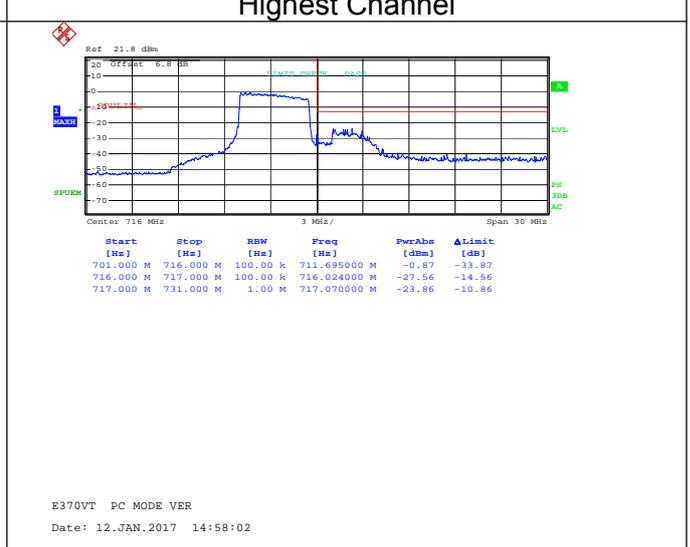
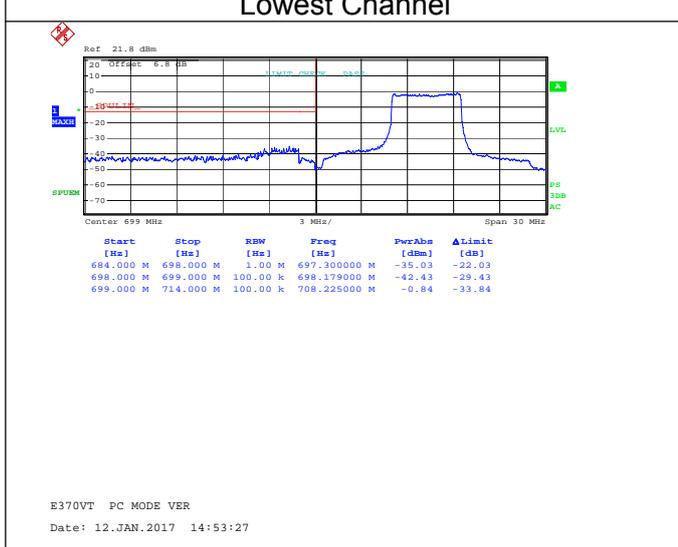
10MHz – 1RB#49

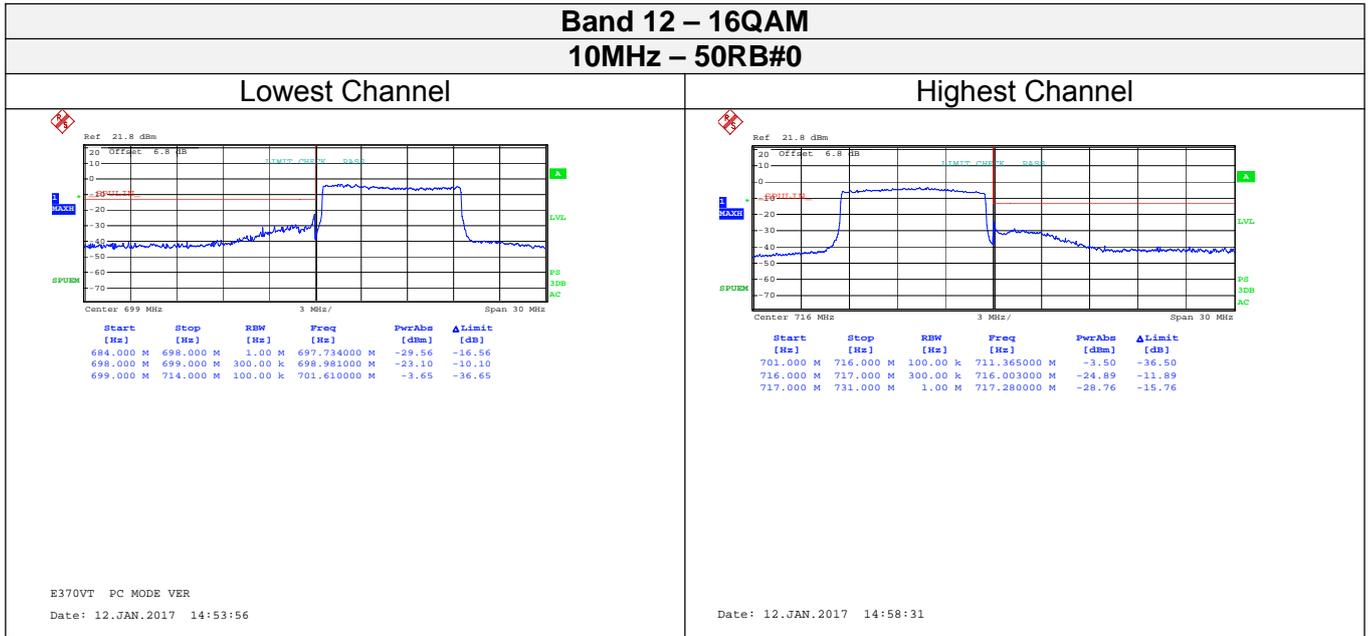


**Band 12 – 16QAM
10MHz – 25RB#0**

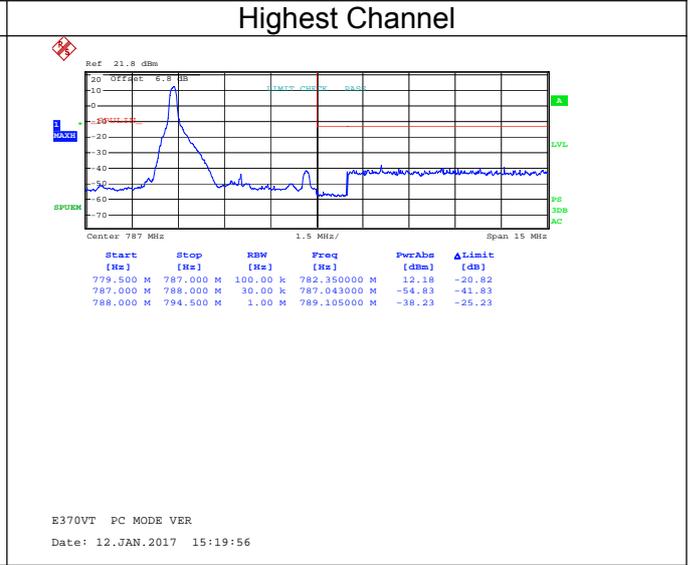
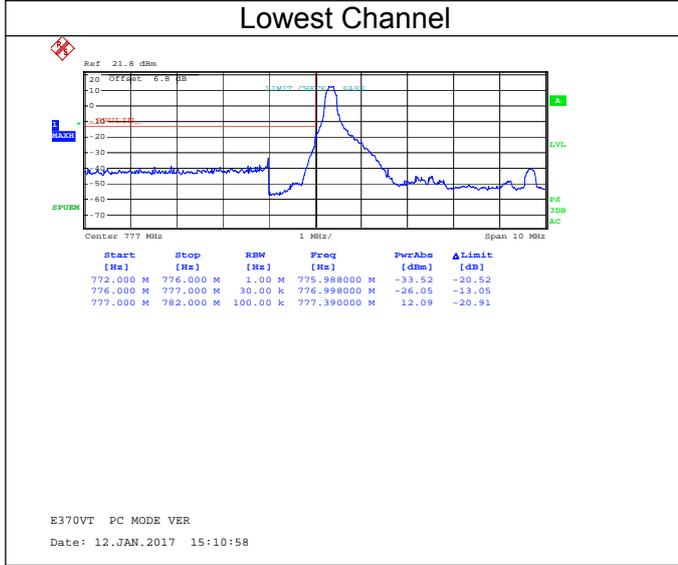


10MHz – 25RB#24

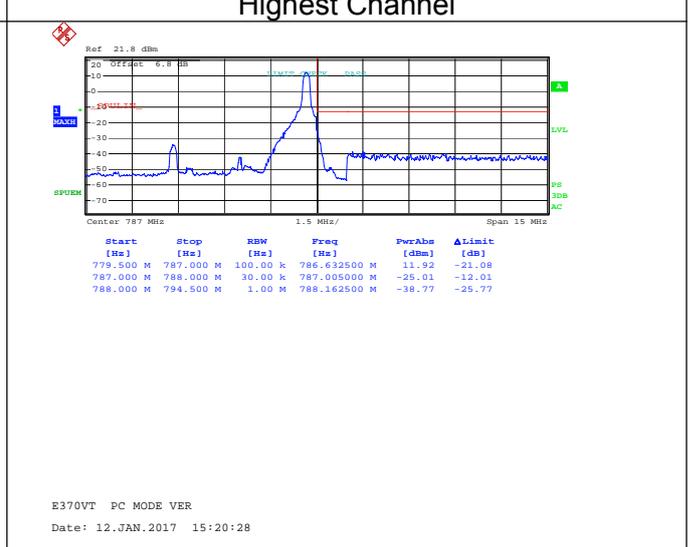
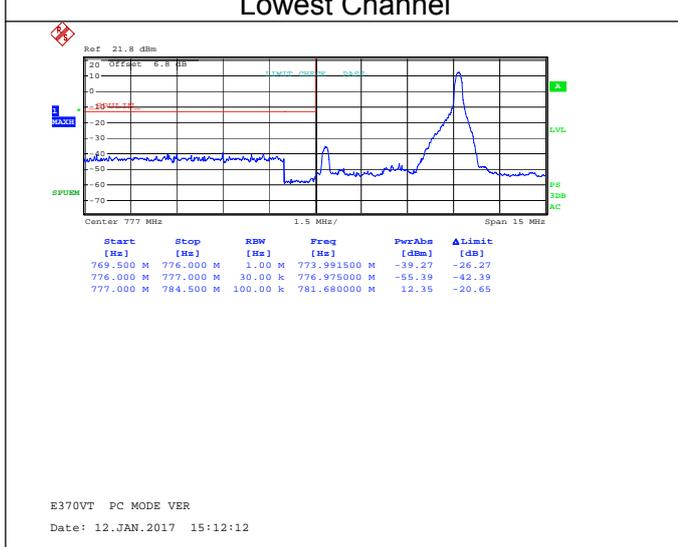




**Band 13 – QPSK
5MHz – 1RB#0**

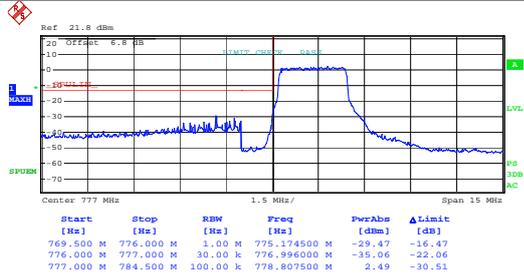


5MHz – 1RB#24



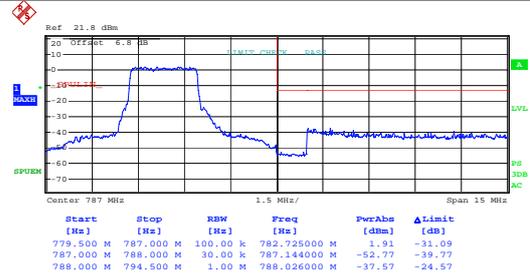
**Band 13 – QPSK
5MHz – 12RB#0**

Lowest Channel



E370VT PC MODE VER
Date: 12.JAN.2017 15:12:54

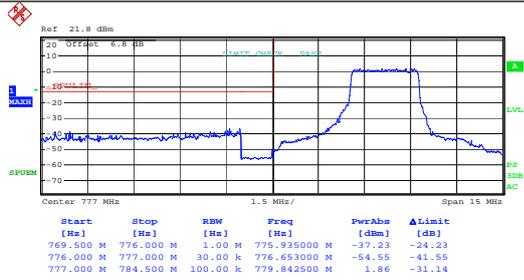
Highest Channel



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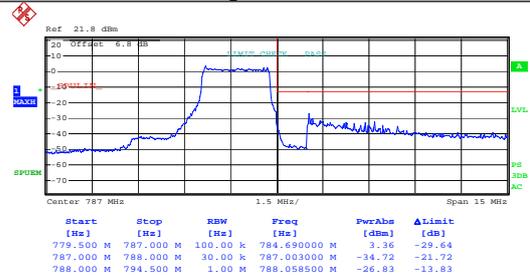
5MHz – 12RB#11

Lowest Channel

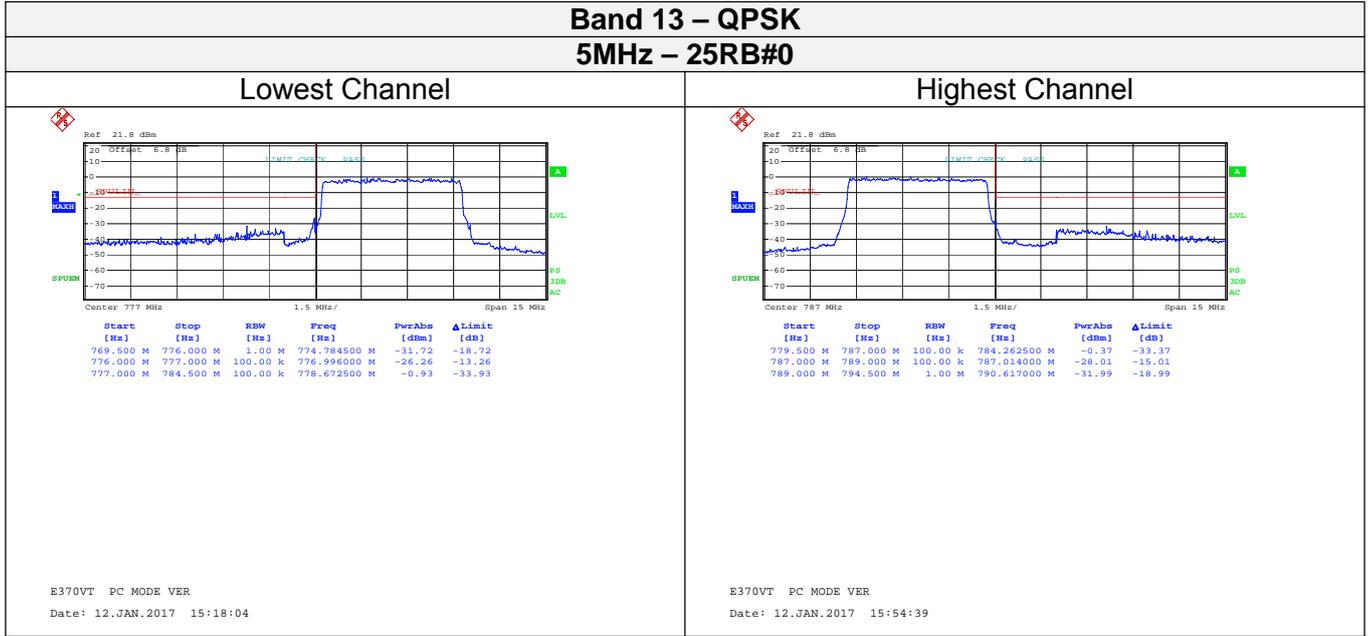


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Highest Channel



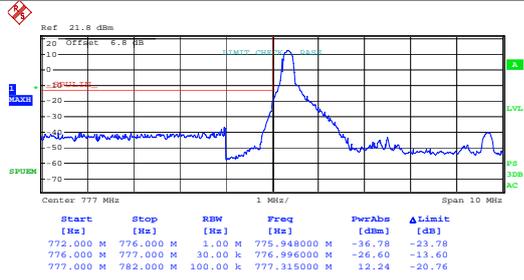
E370VT PC MODE VER
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Band 13 – 16QAM

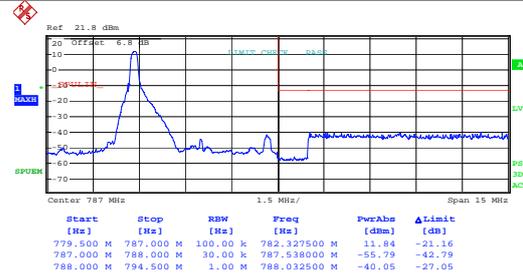
5MHz – 1RB#0

Lowest Channel



E370VT PC MODE VER
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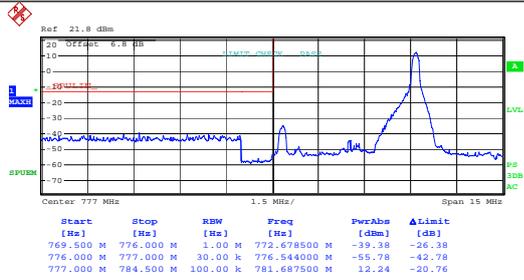
Highest Channel



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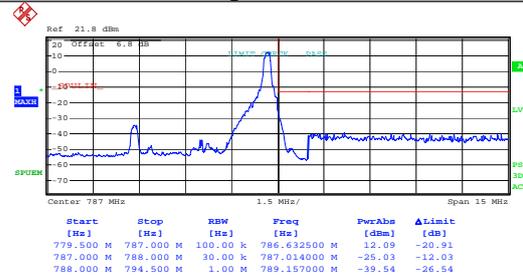
5MHz – 1RB#24

Lowest Channel



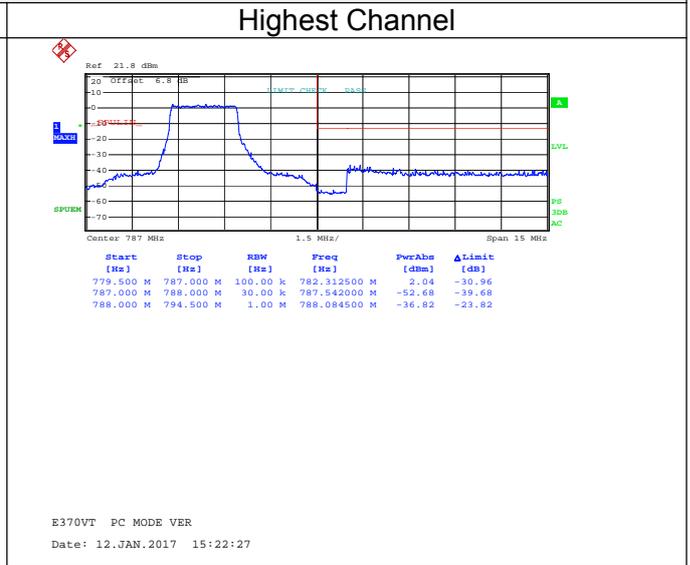
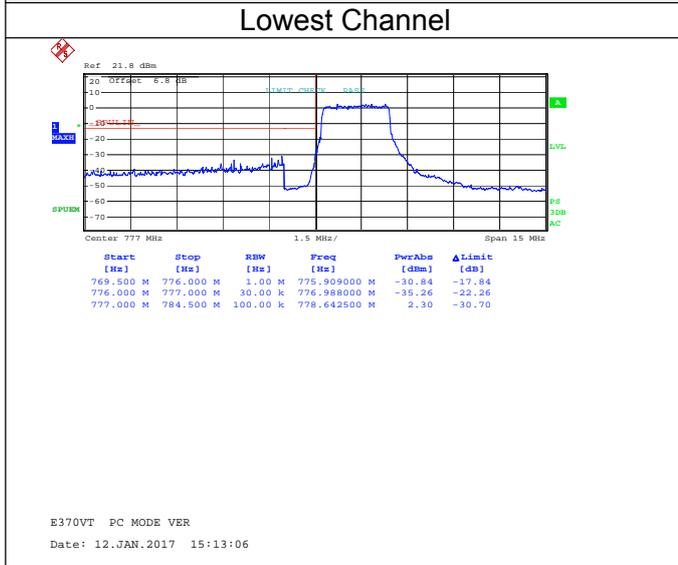
E370VT PC MODE VER
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Highest Channel

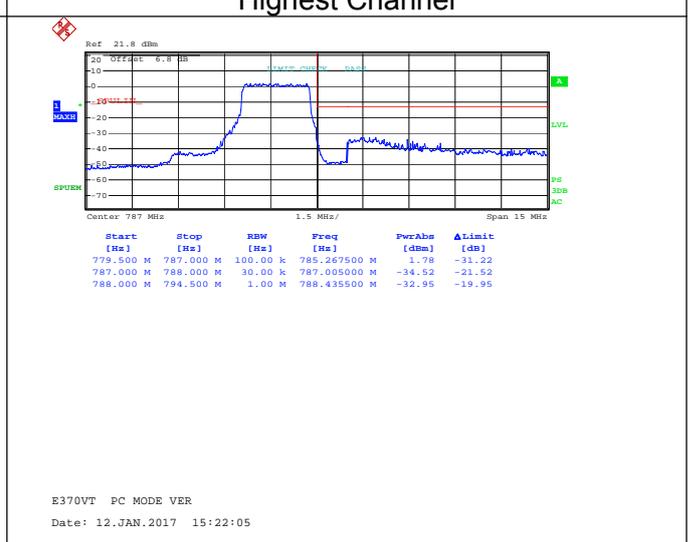
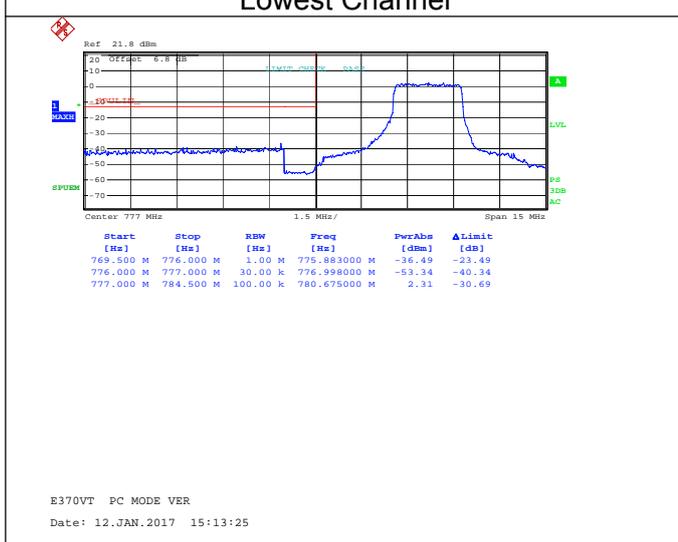


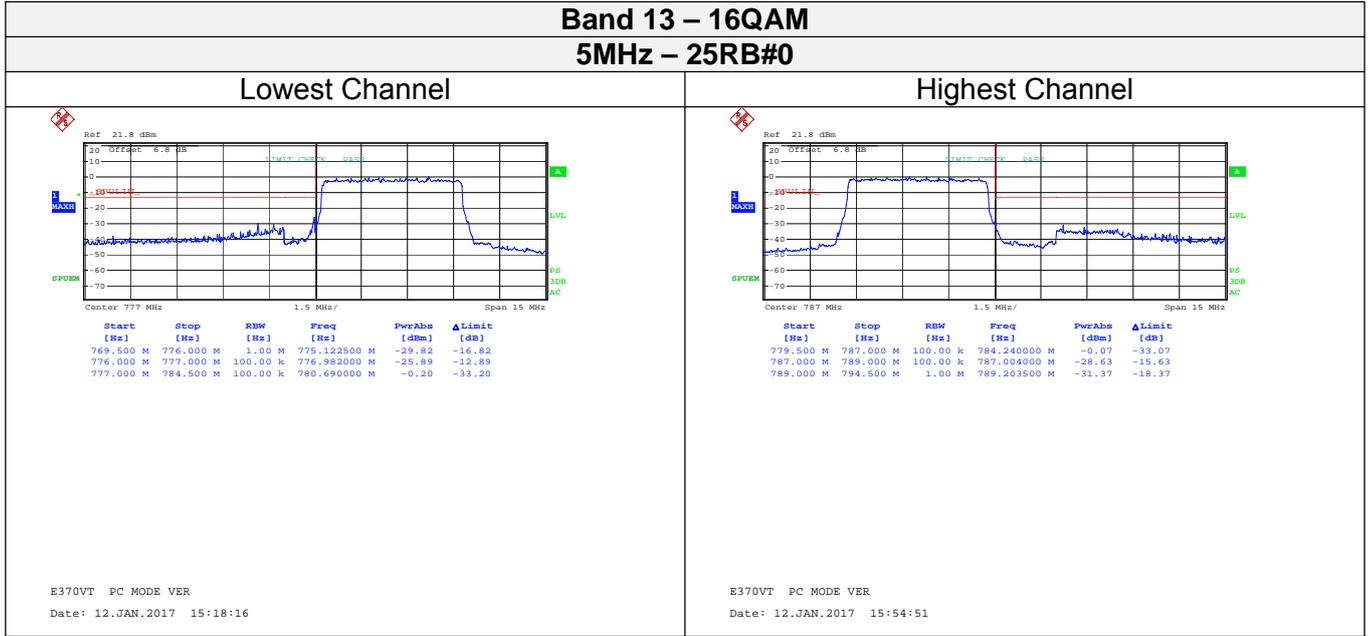
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Date: 12.JAN.2017 15:20:45

**Band 2 – 16QAM
5MHz – 12RB#0**

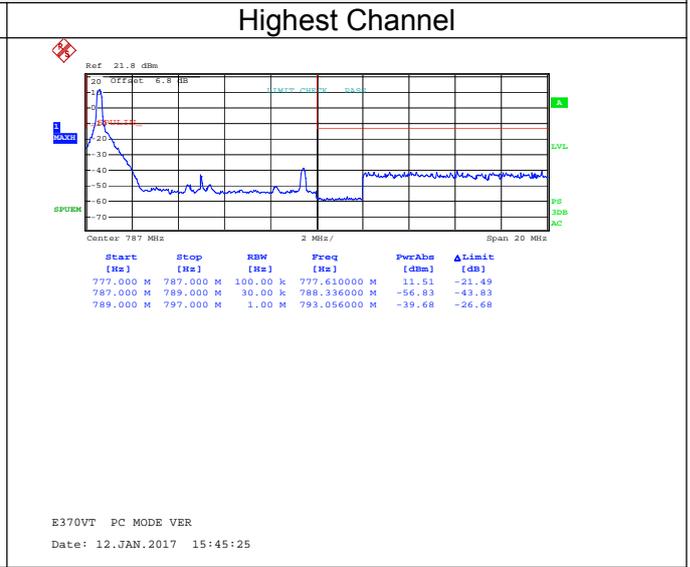
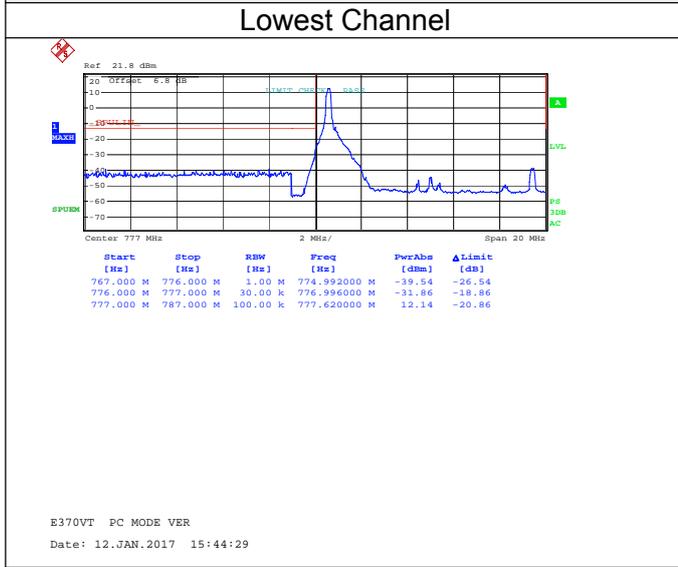


5MHz – 12RB#11

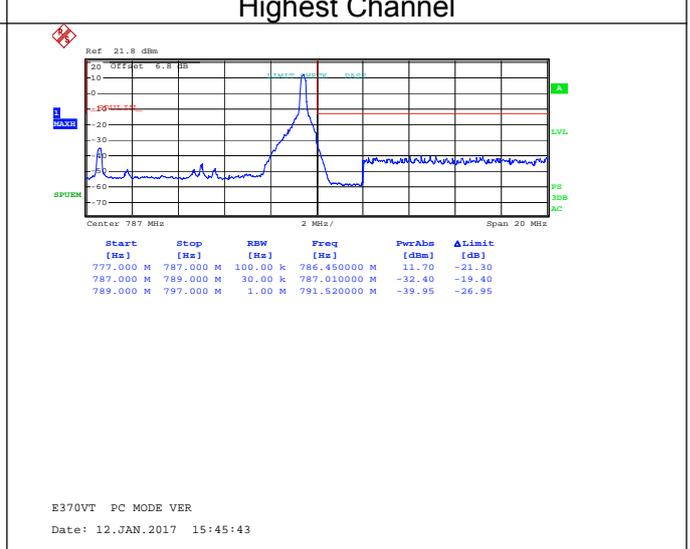
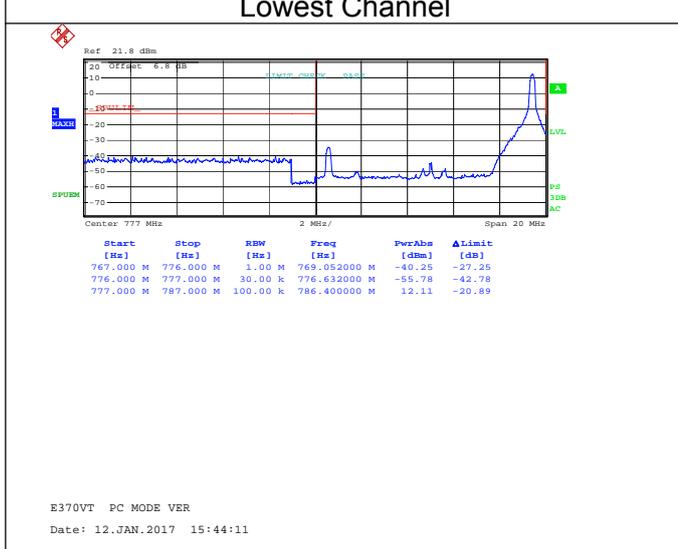




**Band 13 – QPSK
10MHz – 1RB#0**

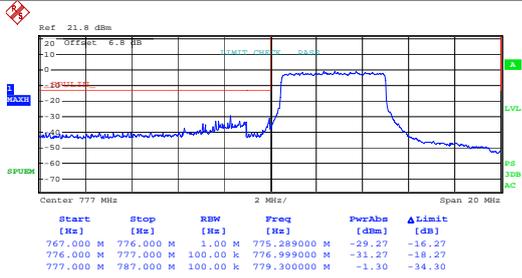


10MHz – 1RB#49



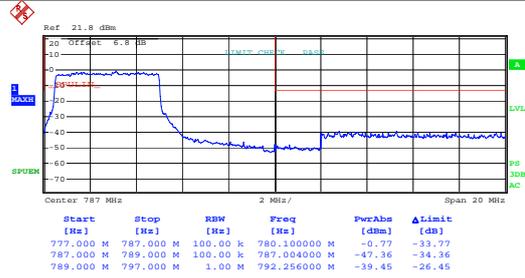
Band 13 – QPSK
10MHz – 25RB#0

Lowest Channel



E370VT PC MODE VER
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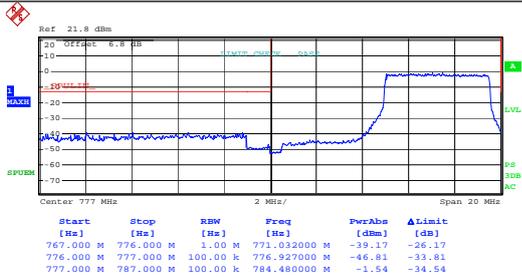
Highest Channel



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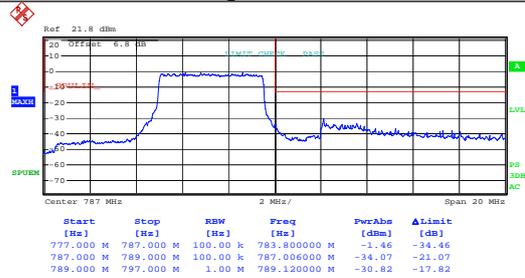
10MHz – 25RB#24

Lowest Channel

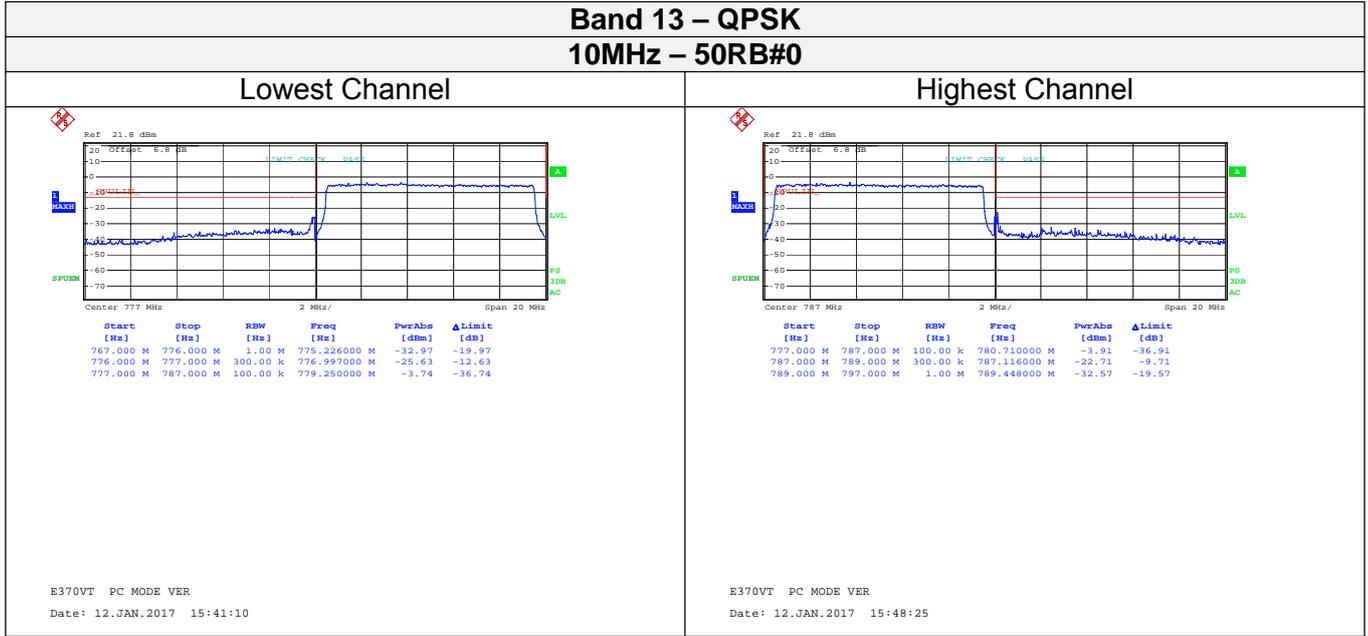


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Highest Channel

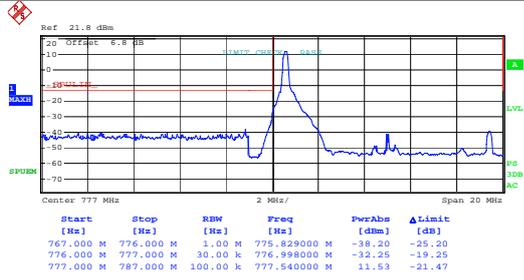


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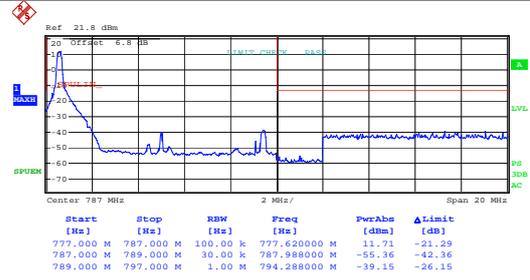
**Band 13 – 16QAM
10MHz – 1RB#0**

Lowest Channel



E370VT PC MODE VER
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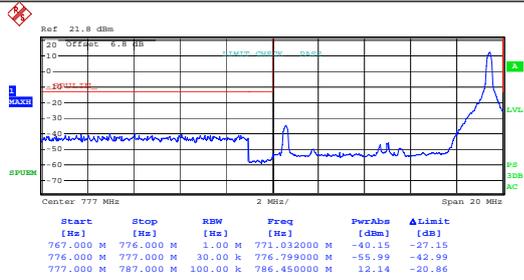
Highest Channel



E370VT PC MODE VER
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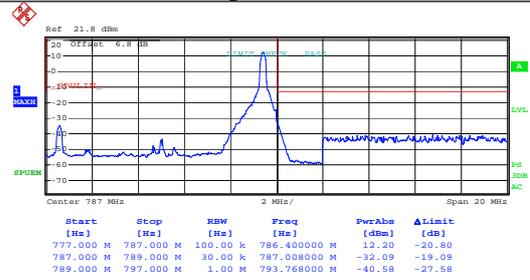
10MHz – 1RB#49

Lowest Channel



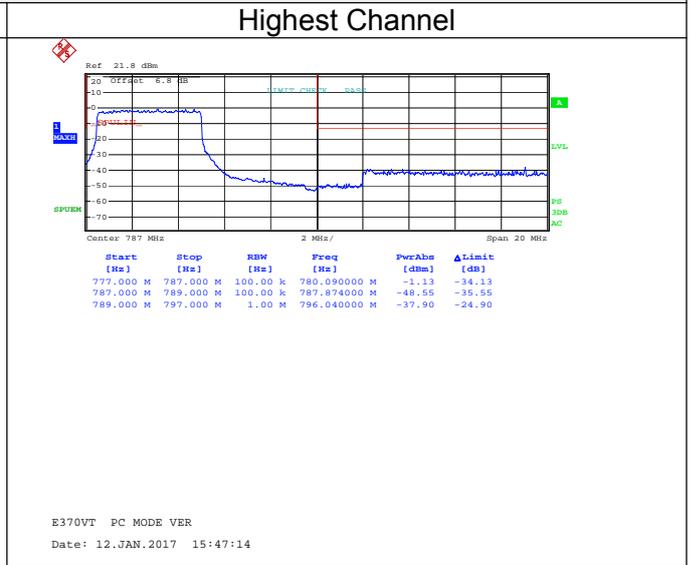
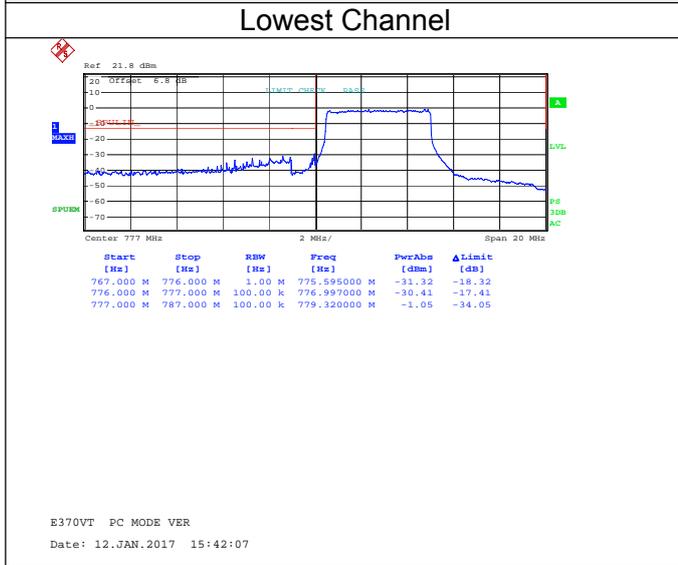
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Highest Channel

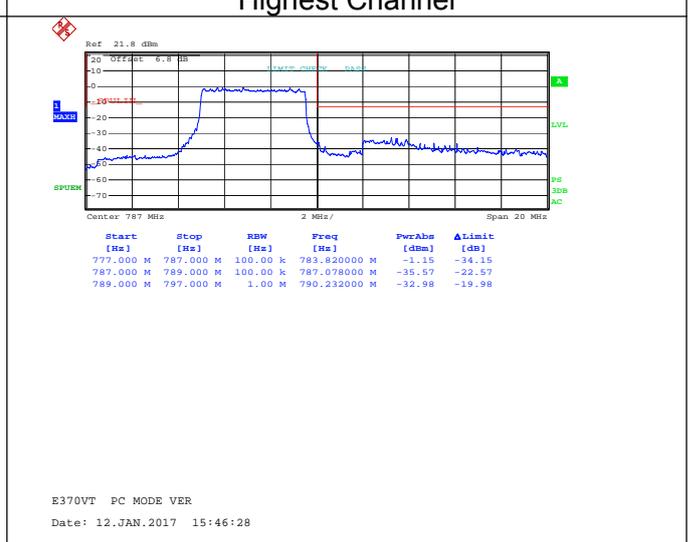
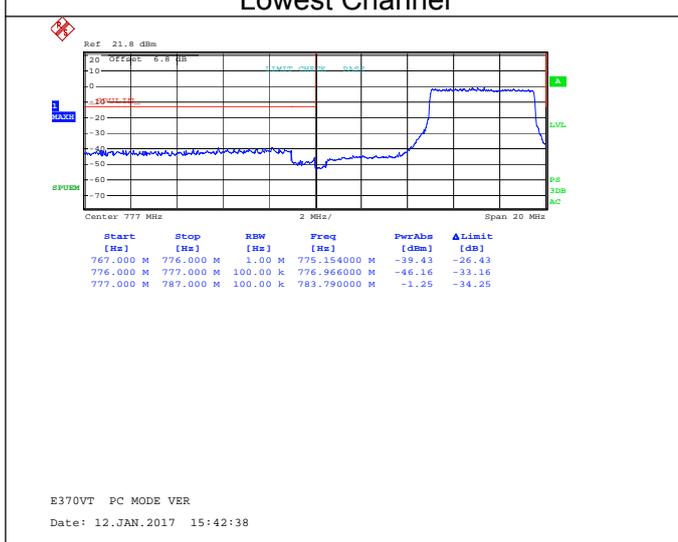


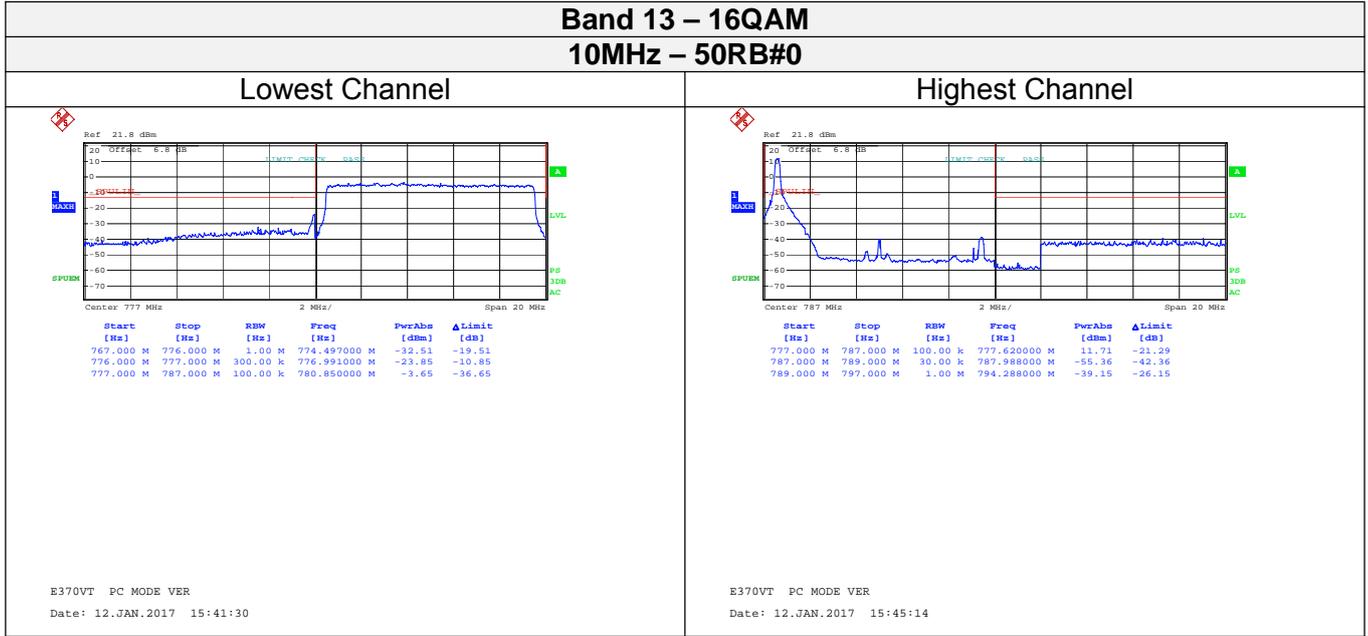
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**Band 13 – 16QAM
10MHz – 25RB#0**



10MHz – 25RB#24





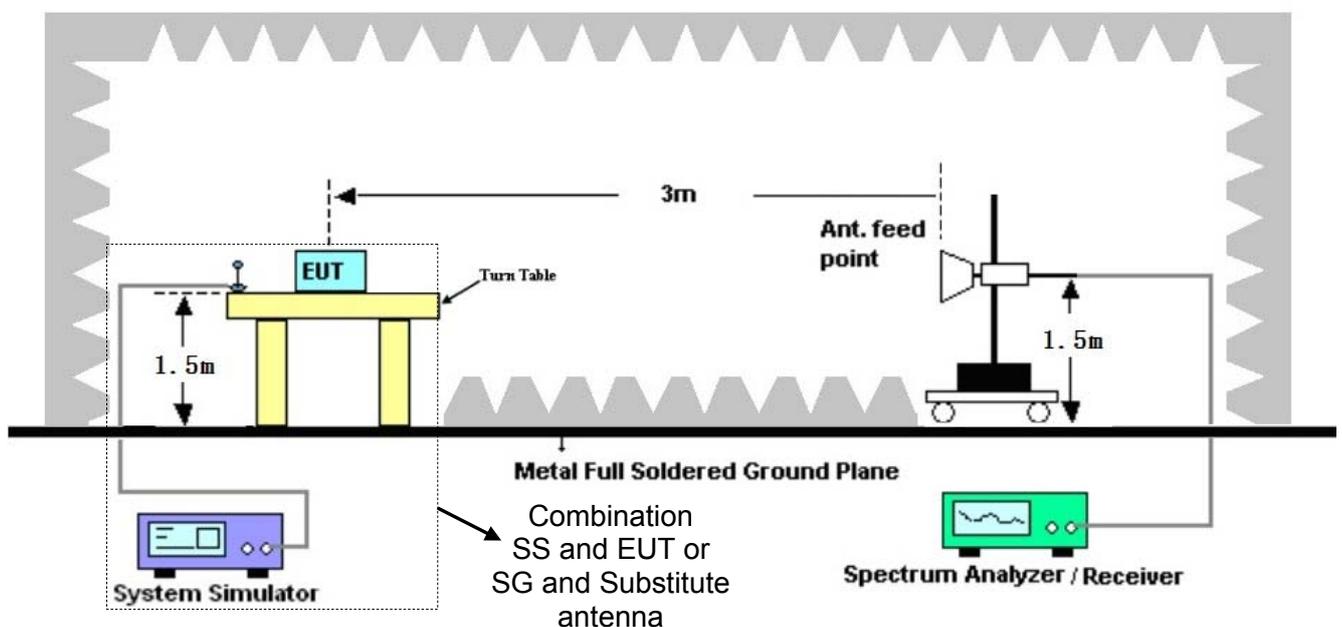
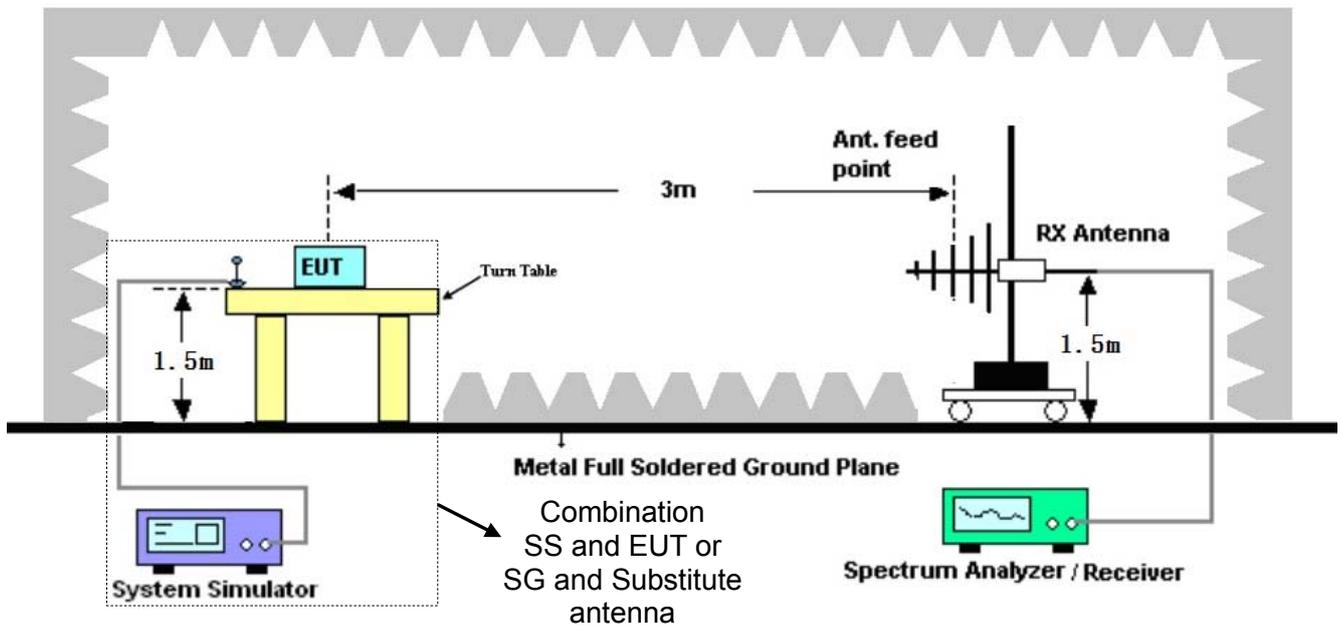
3.5. Radiated Power Measurement

LIMIT

LTE FDD Band 2: 2W(33dBm) EIRP
LTE FDD Band 4: 1W(30dBm) EIRP
LTE FDD Band 7: 2W(33dBm) EIRP
LTE FDD Band 12: 3W(34.77dBm) EPR
LTE FDD Band 13: 3W(34.77dBm) ERP

TEST CONFIGURATION

For the actual test configuration, please refer to the related Item –EUT Test Photos.



TEST PROCEDURE

1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
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.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, and the maximum value of the receiver should be recorded as (Pr).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. 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.
5. An amplifier should be connected to the Signal Source output port. And the cable should be connecting between the Amplifier and the Substitution Antenna. The cable loss (Pcl), the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
6. The measurement results are obtained as described below:
Power(EIRP)=PMea- PAg - Pcl + Ga
We used N5182A microwave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substitution test; The measurement results are amend as described below:
Power(EIRP)=PMea- Pcl + Ga
7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

TEST RESULTS

Remark:

1. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report.

Band 2 Radiated Power EIRP					
Bandwidth	Modulation	Channel	RB Size & RB offset	Horizontal	Vertical
				EIRP(dBm)	EIRP(dBm)
1.4MHz	QPSK	L	1#0	18.94	20.64
		M	1#0	18.87	20.75
		H	1#0	18.82	20.45
	16QAM	L	1#0	18.34	20.37
		M	1#0	18.42	20.23
		H	1#0	18.23	20.34
1.4MHz	QPSK	L	3#0	18.56	20.36
		M	3#0	18.45	20.23
		H	3#0	18.44	20.37
	16QAM	L	3#0	18.23	20.12
		M	3#0	18.34	20.11
		H	3#0	18.22	20.20
1.4MHz	QPSK	L	6#0	18.34	20.43
		M	6#0	18.43	20.36
		H	6#0	18.28	20.33
	16QAM	L	6#0	18.21	20.29
		M	6#0	18.11	20.24
		H	6#0	18.24	20.12
3MHz	QPSK	L	1#0	18.51	20.48
		M	1#0	18.47	20.37
		H	1#0	18.35	20.20
	16QAM	L	1#0	18.32	20.53
		M	1#0	18.38	20.35
		H	1#0	18.23	20.30
3MHz	QPSK	L	8#0	18.29	20.51
		M	8#0	18.25	20.53
		H	8#0	18.49	20.53
	16QAM	L	8#0	18.27	20.39
		M	8#0	18.26	20.26
		H	8#0	18.41	20.22
3MHz	QPSK	L	15#0	18.33	20.37
		M	15#0	18.17	20.24
		H	15#0	18.28	20.32
	16QAM	L	15#0	18.39	20.29
		M	15#0	18.26	20.25
		H	15#0	18.11	20.15
Test Result		Pass			



Band 2 Radiated Power EIRP					
Bandwidth	Modulation	Channel	RB Size & RB offset	Horizontal	Vertical
				EIRP(dBm)	EIRP(dBm)
5MHz	QPSK	L	1#0	18.33	19.83
		M	1#0	18.19	19.62
		H	1#0	18.11	19.68
	16QAM	L	1#0	18.15	19.55
		M	1#0	18.23	19.53
		H	1#0	18.02	19.47
5MHz	QPSK	L	12#0	18.05	19.53
		M	12#0	17.99	19.59
		H	12#0	18.15	19.70
	16QAM	L	12#0	17.90	19.52
		M	12#0	17.96	19.81
		H	12#0	18.06	19.57
5MHz	QPSK	L	25#0	18.05	19.66
		M	25#0	17.91	19.49
		H	25#0	17.58	19.69
	16QAM	L	25#0	18.19	19.25
		M	25#0	17.95	19.41
		H	25#0	17.86	19.41
10MHz	QPSK	L	1#0	18.55	20.49
		M	1#0	18.51	20.35
		H	1#0	18.43	20.25
	16QAM	L	1#0	18.31	20.47
		M	1#0	18.30	20.45
		H	1#0	18.21	20.32
10MHz	QPSK	L	25#0	18.29	20.36
		M	25#0	18.29	19.97
		H	25#0	18.42	20.05
	16QAM	L	25#0	18.31	20.34
		M	25#0	18.23	20.33
		H	25#0	18.37	20.31
10MHz	QPSK	L	50#0	18.28	20.52
		M	50#0	18.12	20.25
		H	50#0	18.15	20.24
	16QAM	L	50#0	18.19	20.31
		M	50#0	18.12	20.16
		H	50#0	18.21	20.17
Test Result		Pass			

Band 2 Radiated Power EIRP					
Bandwidth	Modulation	Channel	RB Size & RB offset	Horizontal	Vertical
				EIRP(dBm)	EIRP(dBm)
15MHz	QPSK	L	1#0	18.90	20.69
		M	1#0	18.81	20.79
		H	1#0	18.85	20.45
	16QAM	L	1#0	18.34	20.34
		M	1#0	18.45	20.21
		H	1#0	18.20	20.36
15MHz	QPSK	L	36#0	18.59	20.32
		M	36#0	18.42	20.28
		H	36#0	18.44	20.32
	16QAM	L	36#0	18.24	20.17
		M	36#0	18.39	20.22
		H	36#0	18.21	20.26
15MHz	QPSK	L	75#0	18.35	20.42
		M	75#0	18.41	20.33
		H	75#0	18.24	20.42
	16QAM	L	75#0	18.20	20.20
		M	75#0	18.19	20.20
		H	75#0	18.24	20.11
20MHz	QPSK	L	1#0	18.56	20.43
		M	1#0	18.53	20.37
		H	1#0	18.45	20.23
	16QAM	L	1#0	18.33	20.48
		M	1#0	18.37	20.42
		H	1#0	18.23	20.35
20MHz	QPSK	L	50#0	18.25	20.34
		M	50#0	18.29	19.98
		H	50#0	18.46	20.04
	16QAM	L	50#0	18.31	20.32
		M	50#0	18.22	20.36
		H	50#0	18.36	20.31
20MHz	QPSK	L	100#0	18.26	20.19
		M	100#0	18.18	20.08
		H	100#0	18.15	20.26
	16QAM	L	100#0	18.11	20.34
		M	100#0	18.16	20.16
		H	100#0	18.22	20.12
Test Result		Pass			

Band 4 Radiated Power EIRP					
Bandwidth	Modulation	Channel	RB Size & RB offset	Horizontal	Vertical
				EIRP(dBm)	EIRP(dBm)
1.4MHz	QPSK	L	1#0	18.32	20.09
		M	1#0	18.23	20.11
		H	1#0	18.43	20.12
	16QAM	L	1#0	18.30	20.02
		M	1#0	18.25	19.98
		H	1#0	18.33	19.76
1.4MHz	QPSK	L	3#0	18.19	20.01
		M	3#0	18.28	19.94
		H	3#0	18.22	20.03
	16QAM	L	3#0	18.16	20.11
		M	3#0	18.23	19.79
		H	3#0	18.24	19.80
1.4MHz	QPSK	L	6#0	18.11	19.99
		M	6#0	18.17	20.14
		H	6#0	18.26	20.00
	16QAM	L	6#0	18.28	19.69
		M	6#0	18.13	19.79
		H	6#0	18.14	19.88
3MHz	QPSK	L	1#0	18.15	19.80
		M	1#0	18.27	19.92
		H	1#0	18.49	20.12
	16QAM	L	1#0	18.30	20.04
		M	1#0	18.19	20.13
		H	1#0	18.20	20.14
3MHz	QPSK	L	8#0	18.38	19.82
		M	8#0	18.25	19.66
		H	8#0	18.12	19.70
	16QAM	L	8#0	18.29	20.06
		M	8#0	18.16	20.09
		H	8#0	18.20	19.95
3MHz	QPSK	L	15#0	18.37	19.59
		M	15#0	18.24	19.71
		H	15#0	18.21	19.90
	16QAM	L	15#0	18.10	20.06
		M	15#0	18.35	19.91
		H	15#0	18.24	19.73
Test Result		Pass			

Band 4 Radiated Power EIRP					
Bandwidth	Modulation	Channel	RB Size & RB offset	Horizontal	Vertical
				EIRP(dBm)	EIRP(dBm)
5MHz	QPSK	L	1#0	18.31	20.09
		M	1#0	18.21	20.20
		H	1#0	18.45	20.11
	16QAM	L	1#0	18.39	20.43
		M	1#0	18.22	20.37
		H	1#0	18.30	20.23
5MHz	QPSK	L	12#0	18.14	20.01
		M	12#0	18.25	19.94
		H	12#0	18.27	20.03
	16QAM	L	12#0	18.10	20.11
		M	12#0	18.27	19.79
		H	12#0	18.28	19.80
5MHz	QPSK	L	25#0	18.12	19.99
		M	25#0	18.15	20.14
		H	25#0	18.26	20.00
	16QAM	L	25#0	18.21	19.69
		M	25#0	18.11	19.76
		H	25#0	18.15	20.01
10MHz	QPSK	L	1#0	18.13	19.94
		M	1#0	18.23	20.03
		H	1#0	18.41	20.11
	16QAM	L	1#0	18.32	19.79
		M	1#0	18.14	19.80
		H	1#0	18.25	20.12
10MHz	QPSK	L	25#0	18.27	19.84
		M	25#0	18.10	19.98
		H	25#0	18.19	19.76
	16QAM	L	25#0	18.27	20.01
		M	25#0	18.15	19.94
		H	25#0	18.21	19.91
10MHz	QPSK	L	50#0	18.45	19.56
		M	50#0	18.39	19.77
		H	50#0	18.22	20.37
	16QAM	L	50#0	18.30	20.23
		M	50#0	18.35	20.48
		H	50#0	18.29	19.70
Test Result		Pass			



Band 4 Radiated Power EIRP					
Bandwidth	Modulation	Channel	RB Size & RB offset	Horizontal	Vertical
				EIRP(dBm)	EIRP(dBm)
15MHz	QPSK	L	1#0	18.35	20.18
		M	1#0	18.21	20.19
		H	1#0	18.49	20.10
	16QAM	L	1#0	18.32	20.08
		M	1#0	18.25	19.90
		H	1#0	18.38	19.78
15MHz	QPSK	L	36#0	18.14	20.05
		M	36#0	18.21	19.90
		H	36#0	18.27	20.01
	16QAM	L	36#0	18.19	20.50
		M	36#0	18.23	19.17
		H	36#0	18.22	19.85
15MHz	QPSK	L	75#0	18.16	19.90
		M	75#0	18.19	20.16
		H	75#0	18.25	20.00
	16QAM	L	75#0	18.24	19.61
		M	75#0	18.17	19.72
		H	75#0	18.11	19.84
20MHz	QPSK	L	1#0	18.13	19.89
		M	1#0	18.23	19.96
		H	1#0	18.41	20.10
	16QAM	L	1#0	18.32	20.07
		M	1#0	18.11	20.14
		H	1#0	18.27	20.12
20MHz	QPSK	L	50#0	18.31	19.84
		M	50#0	18.24	19.60
		H	50#0	18.19	19.75
	16QAM	L	50#0	18.27	20.04
		M	50#0	18.15	20.01
		H	50#0	18.20	19.91
20MHz	QPSK	L	100#0	18.38	19.56
		M	100#0	18.21	19.77
		H	100#0	18.22	19.96
	16QAM	L	100#0	18.13	20.03
		M	100#0	18.35	19.99
		H	100#0	18.24	19.75
Test Result		Pass			

Band 7 Radiated Power EIRP					
Bandwidth	Modulation	Channel	RB Size & RB offset	Horizontal	Vertical
				EIRP(dBm)	EIRP(dBm)
5MHz	QPSK	L	1#0	18.12	19.87
		M	1#0	18.11	19.69
		H	1#0	18.14	19.60
	16QAM	L	1#0	18.09	19.43
		M	1#0	18.02	19.56
		H	1#0	18.08	19.39
5MHz	QPSK	L	12#0	17.92	19.45
		M	12#0	17.69	19.62
		H	12#0	18.11	19.75
	16QAM	L	12#0	17.94	19.47
		M	12#0	17.80	19.85
		H	12#0	17.96	19.50
5MHz	QPSK	L	25#0	18.05	19.54
		M	25#0	17.92	19.49
		H	25#0	17.68	19.63
	16QAM	L	25#0	18.10	19.22
		M	25#0	17.99	19.46
		H	25#0	17.76	19.41
10MHz	QPSK	L	1#0	18.24	19.80
		M	1#0	18.13	19.60
		H	1#0	18.22	19.41
	16QAM	L	1#0	18.02	19.55
		M	1#0	18.06	19.47
		H	1#0	17.45	19.60
10MHz	QPSK	L	25#0	17.54	19.80
		M	25#0	17.65	19.92
		H	25#0	18.03	19.80
	16QAM	L	25#0	17.92	19.51
		M	25#0	17.64	19.73
		H	25#0	17.88	19.57
10MHz	QPSK	L	50#0	17.90	19.65
		M	50#0	17.95	19.14
		H	50#0	18.03	19.50
	16QAM	L	50#0	17.80	19.69
		M	50#0	17.71	19.66
		H	50#0	17.85	19.30
Test Result		Pass			

Band 7 Radiated Power EIRP					
Bandwidth	Modulation	Channel	RB Size & RB offset	Horizontal	Vertical
				EIRP(dBm)	EIRP(dBm)
15MHz	QPSK	L	1#0	18.24	19.57
		M	1#0	18.19	19.56
		H	1#0	18.23	19.65
	16QAM	L	1#0	18.44	19.67
		M	1#0	18.22	19.50
		H	1#0	18.09	19.47
15MHz	QPSK	L	36#0	17.91	19.49
		M	36#0	17.22	19.55
		H	36#0	18.53	19.35
	16QAM	L	36#0	17.35	19.34
		M	36#0	17.88	19.80
		H	36#0	17.90	19.57
15MHz	QPSK	L	75#0	18.56	19.54
		M	75#0	17.90	19.40
		H	75#0	17.18	19.63
	16QAM	L	75#0	18.22	19.21
		M	75#0	17.35	19.34
		H	75#0	17.33	19.26
20MHz	QPSK	L	1#0	18.03	19.84
		M	1#0	18.12	19.67
		H	1#0	18.21	19.45
	16QAM	L	1#0	18.04	19.57
		M	1#0	18.05	19.48
		H	1#0	17.94	19.69
20MHz	QPSK	L	50#0	17.68	19.83
		M	50#0	17.86	19.94
		H	50#0	18.05	19.86
	16QAM	L	50#0	17.92	19.58
		M	50#0	17.69	19.74
		H	50#0	17.84	19.54
20MHz	QPSK	L	100#0	17.97	19.63
		M	100#0	17.99	19.14
		H	100#0	18.08	19.55
	16QAM	L	100#0	17.85	19.61
		M	100#0	17.79	19.66
		H	100#0	17.83	19.32
Test Result		Pass			

Band 12 Radiated Power ERP					
Bandwidth	Modulation	Channel	RB Size & RB offset	Horizontal	Vertical
				ERP(dBm)	ERP(dBm)
1.4MHz	QPSK	L	1#0	20.39	22.03
		M	1#0	20.31	21.94
		H	1#0	20.24	21.53
	16QAM	L	1#0	20.18	21.65
		M	1#0	20.27	21.64
		H	1#0	20.14	21.55
1.4MHz	QPSK	L	3#0	20.31	21.75
		M	3#0	20.21	21.19
		H	3#0	20.12	21.44
	16QAM	L	3#0	20.37	21.45
		M	3#0	20.29	21.47
		H	3#0	20.14	21.58
1.4MHz	QPSK	L	6#0	20.16	21.43
		M	6#0	20.11	21.57
		H	6#0	20.30	21.56
	16QAM	L	6#0	20.17	21.63
		M	6#0	20.24	21.76
		H	6#0	20.27	21.87
3MHz	QPSK	L	1#0	20.36	21.76
		M	1#0	20.52	21.81
		H	1#0	20.58	21.88
	16QAM	L	1#0	20.35	21.53
		M	1#0	20.21	21.60
		H	1#0	20.22	21.25
3MHz	QPSK	L	8#0	20.39	21.59
		M	8#0	20.21	21.60
		H	8#0	20.12	21.40
	16QAM	L	8#0	20.23	21.61
		M	8#0	20.42	21.47
		H	8#0	20.21	21.43
3MHz	QPSK	L	15#0	20.20	21.50
		M	15#0	20.33	21.68
		H	15#0	20.11	21.45
	16QAM	L	15#0	20.17	21.53
		M	15#0	20.35	21.57
		H	15#0	20.20	21.50
Test Result		Pass			

Band 12 Radiated Power ERP					
Bandwidth	Modulation	Channel	RB Size & RB offset	Horizontal	Vertical
				ERP(dBm)	ERP(dBm)
5MHz	QPSK	L	1#0	20.42	22.43
		M	1#0	20.39	21.34
		H	1#0	20.33	21.50
	16QAM	L	1#0	20.52	21.24
		M	1#0	20.38	21.65
		H	1#0	20.25	21.56
5MHz	QPSK	L	12#0	20.32	21.71
		M	12#0	20.26	21.36
		H	12#0	20.17	21.41
	16QAM	L	12#0	20.36	21.40
		M	12#0	20.38	21.48
		H	12#0	20.16	21.61
5MHz	QPSK	L	25#0	20.18	21.41
		M	25#0	20.10	21.57
		H	25#0	20.38	21.49
	16QAM	L	25#0	20.24	21.63
		M	25#0	20.21	21.73
		H	25#0	20.23	21.81
10MHz	QPSK	L	1#0	20.29	21.84
		M	1#0	20.18	21.87
		H	1#0	20.32	21.93
	16QAM	L	1#0	20.19	21.78
		M	1#0	20.28	21.69
		H	1#0	20.15	21.28
10MHz	QPSK	L	25#0	20.31	21.67
		M	25#0	20.26	21.65
		H	25#0	20.16	21.47
	16QAM	L	25#0	20.23	21.69
		M	25#0	20.18	21.48
		H	25#0	20.22	21.51
10MHz	QPSK	L	50#0	20.21	21.59
		M	50#0	20.26	21.62
		H	50#0	20.12	21.43
	16QAM	L	50#0	20.19	21.34
		M	50#0	20.28	21.67
		H	50#0	20.26	21.56
Test Result		Pass			

Band 13 Radiated Power ERP					
Bandwidth	Modulation	Channel	RB Size & RB offset	Horizontal	Vertical
				ERP(dBm)	ERP(dBm)
5MHz	QPSK	L	1#0	20.47	21.38
		M	1#0	20.25	21.13
		H	1#0	20.18	21.84
	16QAM	L	1#0	20.38	21.92
		M	1#0	20.74	21.47
		H	1#0	20.47	21.48
5MHz	QPSK	L	12#0	20.19	21.47
		M	12#0	20.38	21.46
		H	12#0	20.78	21.38
	16QAM	L	12#0	20.76	21.46
		M	12#0	20.23	21.30
		H	12#0	20.79	21.27
5MHz	QPSK	L	+25#0	20.34	21.37
		M	25#0	20.47	21.84
		H	25#0	20.98	21.35
	16QAM	L	25#0	20.28	21.57
		M	25#0	20.56	21.28
		H	25#0	20.54	21.65
10MHz	QPSK	M	1#0	20.38	21.37
	16QAM		1#0	20.56	21.94
10MHz	QPSK	M	25#0	20.77	21.46
	16QAM		25#0	20.85	21.98
10MHz	QPSK	M	50#0	20.56	21.89
	16QAM		50#0	20.35	21.87
Test Result		Pass			

3.6. Radiated Spurious Emission

LIMIT

FDD Band 2: The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FDD Band 4: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

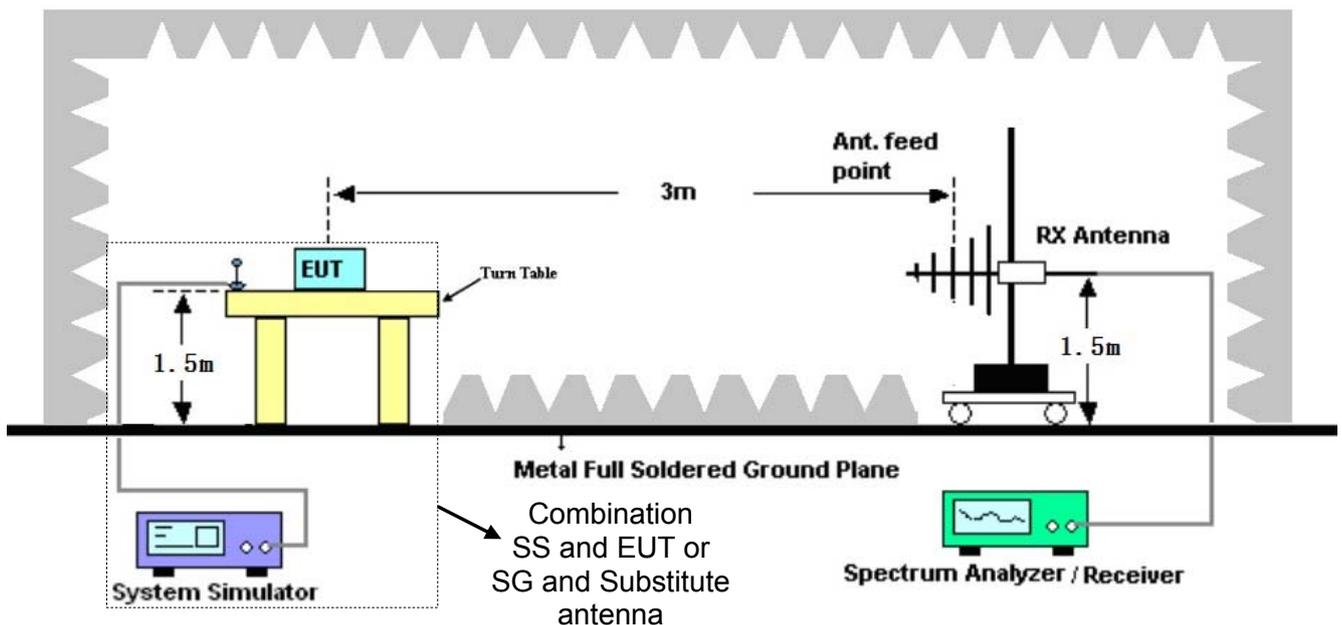
FDD Band 7: For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.

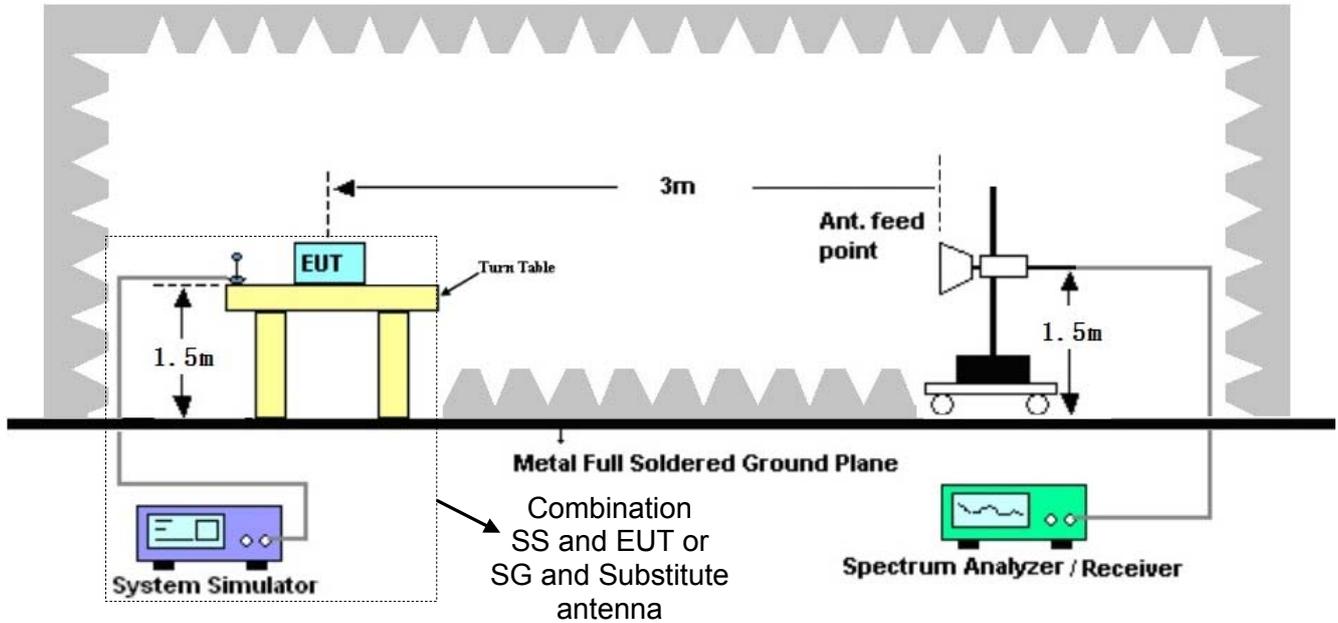
FDD Band 12: the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

FDD Band 13: The power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

TEST CONFIGURATION

For the actual test configuration, please refer to the related Item –EUT Test Photos.





TEST PROCEDURE

1. EUT was placed on a 1.50 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50m. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
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.
3. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz, and the maximum value of the receiver should be recorded as (Pr).
4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. 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.
5. An amplifier should be connected to the Signal Source output port. And the cable should be connecting between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
6. The measurement results are obtained as described below:
 $Power(EIRP)=PMea- PAg - Pcl + Ga$

We used SMF100A microwave signal generator which signal level can up to 33dBm,so we not used power Amplifier for substitution test; The measurement results are amend as described below:
Power(EIRP)=PMea- Pcl + Ga

7. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP-2.15dBi.

8. Test frequency range should extend to 10th harmonic of highest fundamental frequency.

TEST RESULTS

Remark:

1. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report.
2. We test all modulation type and record worst case at Voice mode.

Measured data (worst case):

Band 2 Radiated Spurious Emissions								
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result
				Frequency	Level (dBm)	Polarization		
1.4MHz	QPSK	L	1#0	3701.40	-44.28	Vertical	-13.00	Pass
				5552.10	-46.90	Vertical		
				3701.40	-44.34	Horizontal		
				5552.10	-43.71	Horizontal		
1.4MHz	QPSK	M	1#0	3760.00	-44.69	Vertical	-13.00	Pass
				5640.00	-44.35	Vertical		
				3760.00	-47.78	Horizontal		
				5640.00	-40.68	Horizontal		
1.4MHz	QPSK	H	1#0	3818.60	-44.81	Vertical	-13.00	Pass
				5727.90	-43.95	Vertical		
				3818.60	-42.86	Horizontal		
				5727.90	-39.02	Horizontal		
3MHz	QPSK	L	1#0	3703.00	-44.52	Vertical	-13.00	Pass
				5554.50	-45.36	Vertical		
				3703.00	-44.63	Horizontal		
				5554.50	-43.41	Horizontal		
3MHz	QPSK	M	1#0	3760.00	-44.36	Vertical	-13.00	Pass
				5640.00	-44.25	Vertical		
				3760.00	-47.36	Horizontal		
				5640.00	-40.36	Horizontal		
3MHz	QPSK	H	1#0	3817.00	-44.69	Vertical	-13.00	Pass
				5725.50	-43.68	Vertical		
				3817.00	-42.77	Horizontal		
				5725.50	-39.54	Horizontal		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

Band 2 Radiated Spurious Emissions								
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result
				Frequency	Level (dBm)	Polarization		
5MHz	QPSK	L	1#0	3705.00	-44.63	Vertical	-13.00	Pass
				5557.50	-45.36	Vertical		
				3705.00	-44.25	Horizontal		
				5557.50	-43.14	Horizontal		
5MHz	QPSK	M	1#0	3760.00	-44.85	Vertical	-13.00	Pass
				5640.00	-44.36	Vertical		
				3760.00	-47.10	Horizontal		
				5640.00	-40.21	Horizontal		
5MHz	QPSK	H	1#0	3815.00	-44.85	Vertical	-13.00	Pass
				5722.50	-43.96	Vertical		
				3815.00	-42.14	Horizontal		
				5722.50	-39.25	Horizontal		
10MHz	QPSK	L	1#0	3710.00	-44.85	Vertical	-13.00	Pass
				5565.00	-45.95	Vertical		
				3710.00	-44.14	Horizontal		
				5565.00	-43.21	Horizontal		
10MHz	QPSK	M	1#0	3760.00	-44.25	Vertical	-13.00	Pass
				5640.00	-44.96	Vertical		
				3760.00	-47.12	Horizontal		
				5640.00	-40.25	Horizontal		
10MHz	QPSK	H	1#0	3810.00	-44.74	Vertical	-13.00	Pass
				5715.00	-43.69	Vertical		
				3810.00	-42.10	Horizontal		
				5715.00	-39.47	Horizontal		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

Band 2 Radiated Spurious Emissions								
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result
				Frequency	Level (dBm)	Polarization		
15MHz	QPSK	L	1#0	3715.00	-45.23	Vertical	-13.00	Pass
				5572.50	-46.25	Vertical		
				3715.00	-44.25	Horizontal		
				5572.50	-43.69	Horizontal		
15MHz	QPSK	M	1#0	3760.00	-45.21	Vertical	-13.00	Pass
				5640.00	-45.96	Vertical		
				3760.00	-47.25	Horizontal		
				5640.00	-40.21	Horizontal		
15MHz	QPSK	H	1#0	3805.00	-45.26	Vertical	-13.00	Pass
				5707.50	-44.25	Vertical		
				3805.00	-42.98	Horizontal		
				5707.50	-39.21	Horizontal		
20MHz	QPSK	L	1#0	3720.00	-44.52	Vertical	-13.00	Pass
				5580.00	-45.63	Vertical		
				3720.00	-44.85	Horizontal		
				5580.00	-43.66	Horizontal		
20MHz	QPSK	M	1#0	3760.00	-44.21	Vertical	-13.00	Pass
				5640.00	-44.85	Vertical		
				3760.00	-47.12	Horizontal		
				5640.00	-40.32	Horizontal		
20MHz	QPSK	H	1#0	3800.00	-44.63	Vertical	-13.00	Pass
				5700.00	-43.69	Vertical		
				3800.00	-42.14	Horizontal		
				5700.00	-39.32	Horizontal		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

Band 4 Radiated Spurious Emissions								
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result
				Frequency	Level (dBm)	Polarization		
1.4MHz	QPSK	L	1#0	3421.40	-46.25	Vertical	-13.00	Pass
				5132.10	-47.52	Vertical		
				3421.40	-45.69	Horizontal		
				5132.10	-44.52	Horizontal		
1.4MHz	QPSK	M	1#0	3465.00	-46.95	Vertical	-13.00	Pass
				5197.50	-47.25	Vertical		
				3465.00	-48.25	Horizontal		
				5197.50	-42.36	Horizontal		
1.4MHz	QPSK	H	1#0	3508.60	-46.36	Vertical	-13.00	Pass
				5262.90	-45.25	Vertical		
				3508.60	-43.85	Horizontal		
				5262.90	-40.25	Horizontal		
3MHz	QPSK	L	1#0	3423.00	-45.74	Vertical	-13.00	Pass
				5134.50	-46.85	Vertical		
				3423.00	-45.20	Horizontal		
				5134.50	-44.36	Horizontal		
3MHz	QPSK	M	1#0	3465.00	-45.87	Vertical	-13.00	Pass
				5197.50	-46.33	Vertical		
				3465.00	-47.69	Horizontal		
				5197.50	-42.14	Horizontal		
3MHz	QPSK	H	1#0	3507.00	-46.32	Vertical	-13.00	Pass
				5260.50	-44.25	Vertical		
				3507.00	-44.25	Horizontal		
				5260.50	-41.25	Horizontal		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

Band 4 Radiated Spurious Emissions								
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result
				Frequency	Level (dBm)	Polarization		
5MHz	QPSK	L	1#0	3425.00	-46.52	Vertical	-13.00	Pass
				5137.50	-47.21	Vertical		
				3425.00	-45.96	Horizontal		
				5137.50	-44.21	Horizontal		
5MHz	QPSK	M	1#0	3465.00	-46.87	Vertical	-13.00	Pass
				5197.50	-47.23	Vertical		
				3465.00	-48.96	Horizontal		
				5197.50	-42.66	Horizontal		
5MHz	QPSK	H	1#0	3505.00	-46.74	Vertical	-13.00	Pass
				5257.50	-45.96	Vertical		
				3505.00	-43.54	Horizontal		
				5257.50	-41.25	Horizontal		
10MHz	QPSK	L	1#0	3430.00	-45.87	Vertical	-13.00	Pass
				5145.00	-46.85	Vertical		
				3430.00	-45.12	Horizontal		
				5145.00	-44.36	Horizontal		
10MHz	QPSK	M	1#0	3465.00	-45.63	Vertical	-13.00	Pass
				5197.50	-46.74	Vertical		
				3465.00	-47.21	Horizontal		
				5197.50	-42.36	Horizontal		
10MHz	QPSK	H	1#0	3500.00	-46.85	Vertical	-13.00	Pass
				5250.00	-44.25	Vertical		
				3500.00	-44.96	Horizontal		
				5250.00	-42.02	Horizontal		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

Band 4 Radiated Spurious Emissions								
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result
				Frequency	Level (dBm)	Polarization		
15MHz	QPSK	L	1#0	3435.00	-47.20	Vertical	-13.00	Pass
				5152.50	-47.20	Vertical		
				3435.00	-45.23	Horizontal		
				5152.50	-44.10	Horizontal		
15MHz	QPSK	M	1#0	3465.00	-46.32	Vertical	-13.00	Pass
				5197.50	-47.21	Vertical		
				3465.00	-48.25	Horizontal		
				5197.50	-42.32	Horizontal		
15MHz	QPSK	H	1#0	3495.00	-46.29	Vertical	-13.00	Pass
				5242.50	-45.14	Vertical		
				3495.00	-43.26	Horizontal		
				5242.50	-41.52	Horizontal		
20MHz	QPSK	L	1#0	3440.00	-45.96	Vertical	-13.00	Pass
				5160.00	-46.21	Vertical		
				3440.00	-45.63	Horizontal		
				5160.00	-44.10	Horizontal		
20MHz	QPSK	M	1#0	3465.00	-45.74	Vertical	-13.00	Pass
				5197.50	-46.52	Vertical		
				3465.00	-46.32	Horizontal		
				5197.50	-42.32	Horizontal		
20MHz	QPSK	H	1#0	3490.00	-45.10	Vertical	-13.00	Pass
				5235.00	-44.96	Vertical		
				3490.00	-45.20	Horizontal		
				5235.00	-42.69	Horizontal		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

Band 7 Radiated Spurious Emissions								
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result
				Frequency	Level (dBm)	Polarization		
5MHz	QPSK	L	1#0	5005.00	-39.79	Vertical	-25.00	Pass
				7507.50	-35.25	Vertical		
				5005.00	-40.42	Horizontal		
				7507.50	-38.20	Horizontal		
5MHz	QPSK	M	1#0	5070.00	-40.74	Vertical	-25.00	Pass
				7605.00	-36.45	Vertical		
				5070.00	-40.11	Horizontal		
				7605.00	-36.08	Horizontal		
5MHz	QPSK	H	1#0	5135.00	-44.85	Vertical	-25.00	Pass
				7702.50	-36.57	Vertical		
				5135.00	-40.06	Horizontal		
				7702.50	-36.32	Horizontal		
10MHz	QPSK	L	1#0	5010.00	-39.52	Vertical	-25.00	Pass
				7515.00	-35.74	Vertical		
				5010.00	-40.24	Horizontal		
				7515.00	-38.96	Horizontal		
10MHz	QPSK	M	1#0	5070.00	-40.12	Vertical	-25.00	Pass
				7605.00	-36.74	Vertical		
				5070.00	-40.25	Horizontal		
				7605.00	-36.58	Horizontal		
10MHz	QPSK	H	1#0	5130.00	-44.25	Vertical	-25.00	Pass
				7695.00	-36.69	Vertical		
				5130.00	-40.74	Horizontal		
				7695.00	-36.52	Horizontal		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

Band 7 Radiated Spurious Emissions								
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result
				Frequency	Level (dBm)	Polarization		
15MHz	QPSK	L	1#0	5015.00	-38.52	Vertical	-25.00	Pass
				7522.50	-36.74	Vertical		
				5015.00	-37.21	Horizontal		
				7522.50	-36.24	Horizontal		
15MHz	QPSK	M	1#0	5070.00	-41.55	Vertical	-25.00	Pass
				7605.00	-38.65	Vertical		
				5070.00	-39.74	Horizontal		
				7605.00	-36.25	Horizontal		
15MHz	QPSK	H	1#0	5125.00	-41.02	Vertical	-25.00	Pass
				7687.50	-35.87	Vertical		
				5125.00	-38.69	Horizontal		
				7687.50	-36.74	Horizontal		
20MHz	QPSK	L	1#0	5020.00	-38.56	Vertical	-25.00	Pass
				7530.00	-36.46	Vertical		
				5020.00	-37.72	Horizontal		
				7530.00	-36.04	Horizontal		
20MHz	QPSK	M	1#0	5070.00	-41.05	Vertical	-25.00	Pass
				7605.00	-38.15	Vertical		
				5070.00	-39.08	Horizontal		
				7605.00	-36.75	Horizontal		
20MHz	QPSK	H	1#0	5120.00	-41.53	Vertical	-25.00	Pass
				7680.00	-35.85	Vertical		
				5120.00	-38.71	Horizontal		
				7680.00	-36.48	Horizontal		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

Band 12 Radiated Spurious Emissions								
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result
				Frequency	Level (dBm)	Polarization		
1.4MHz	QPSK	L	1#0	1399.40	-42.58	Vertical	-13.00	Pass
				2099.10	-39.23	Vertical		
				1399.40	-41.85	Horizontal		
				2099.10	-50.12	Horizontal		
1.4MHz	QPSK	M	1#0	1415.00	-41.25	Vertical	-13.00	Pass
				2122.50	-51.25	Vertical		
				1415.00	-41.96	Horizontal		
				2122.50	-49.23	Horizontal		
1.4MHz	QPSK	H	1#0	1430.60	-45.36	Vertical	-13.00	Pass
				2145.90	-48.95	Vertical		
				1430.60	-45.02	Horizontal		
				2145.90	-43.36	Horizontal		
3MHz	QPSK	L	1#0	1401.00	-42.57	Vertical	-13.00	Pass
				2101.50	-39.87	Vertical		
				1401.00	-41.85	Horizontal		
				2101.50	-50.52	Horizontal		
3MHz	QPSK	M	1#0	1415.00	-41.52	Vertical	-13.00	Pass
				2122.50	-51.95	Vertical		
				1415.00	-41.85	Horizontal		
				2122.50	-49.36	Horizontal		
3MHz	QPSK	H	1#0	1429.00	-45.78	Vertical	-13.00	Pass
				2143.50	-48.65	Vertical		
				1429.00	-45.12	Horizontal		
				2143.50	-43.95	Horizontal		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

Band 12 Radiated Spurious Emissions								
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result
				Frequency	Level (dBm)	Polarization		
5MHz	QPSK	L	1#0	1403.00	-42.63	Vertical	-13.00	Pass
				2104.50	-39.74	Vertical		
				1403.00	-41.74	Horizontal		
				2104.50	-50.36	Horizontal		
5MHz	QPSK	M	1#0	1415.00	-41.52	Vertical	-13.00	Pass
				2122.50	-51.36	Vertical		
				1415.00	-41.74	Horizontal		
				2122.50	-49.65	Horizontal		
5MHz	QPSK	H	1#0	1427.00	-45.63	Vertical	-13.00	Pass
				2140.50	-48.25	Vertical		
				1427.00	-45.12	Horizontal		
				2140.50	-43.65	Horizontal		
10MHz	QPSK	L	1#0	1408.00	-42.65	Vertical	-13.00	Pass
				2112.00	-39.68	Vertical		
				1408.00	-41.74	Horizontal		
				2112.00	-50.63	Horizontal		
10MHz	QPSK	M	1#0	1415.00	-41.25	Vertical	-13.00	Pass
				2122.50	-51.87	Vertical		
				1415.00	-41.65	Horizontal		
				2122.50	-49.58	Horizontal		
10MHz	QPSK	H	1#0	1422.00	-45.30	Vertical	-13.00	Pass
				2133.00	-48.64	Vertical		
				1422.00	-45.71	Horizontal		
				2133.00	-43.90	Horizontal		

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

Band 13 Radiated Spurious Emissions												
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result				
				Frequency	Level (dBm)	Polarization						
5MHz	QPSK	L	1#0	1559.00	-52.73	Vertical	-40	Pass				
				2338.50	-38.94	Vertical	-13					
				1559.00	-51.72	Horizontal	-40					
				2338.50	-49.02	Horizontal	-13					
			1#24	1563.22	-50.28	Vertical	-40					
				1563.23	-42.55	Horizontal						
			12#0	1559.35	-55.67	Vertical	-40					
				1559.15	-52.00	Horizontal						
			12#11	1559.95	-51.24	Vertical	-40					
				1560.05	-47.44	Horizontal						
			25#0	1559.80	-52.77	Vertical	-40					
				1559.10	-46.13	Horizontal						
			5MHz	QPSK	M	1#0	1559.75		-46.91	Vertical	-40	Pass
							2346.00		-50.19	Vertical	-13	
							1559.65		-43.14	Horizontal	-40	
							2346.00		-49.09	Horizontal	-13	
1#24	1568.11	-51.77				Vertical	-40					
	1568.51	-49.63				Horizontal						
12#0	1560.51	-50.37				Vertical	-40					
	1560.46	-47.24				Horizontal						
12#11	1565.69	-54.35				Vertical	-40					
	1564.73	-51.40				Horizontal						
25#0	1560.10	-52.38				Vertical	-40					
	1560.26	-48.23				Horizontal						

Remark :

1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

Band 13 Radiated Spurious Emissions								
Bandwidth h	Modulation	Test Channel	RB Size & RB offset	Spurious Emission			Limit (dBm)	Result
				Frequency	Level (dBm)	Polarization		
5MHz	QPSK	H	1#0	1564.58	-50.31	Vertical	-40	Pass
				2353.50	-48.91	Vertical	-13	
				1564.43	-46.61	Horizontal	-40	
				2353.50	-42.73	Horizontal	-13	
			1#24	1573.42	-52.54	Vertical	-40	
				1573.42	-50.17	Horizontal		
			12#0	1565.89	-54.41	Vertical	-40	
				1565.39	-51.78	Horizontal		
			12#11	1571.29	-54.31	Vertical	-40	
				1572.51	-53.63	Horizontal		
			25#0	1567.35	-55.13	Vertical	-40	
				1565.44	-53.23	Horizontal		
10MHz	QPSK	M	1#0	1565.79	-55.43	Vertical	-40	Pass
				2346.00	-38.70	Vertical	-13	
				1565.19	-56.53	Horizontal	-40	
				2346.00	-49.19	Horizontal	-13	
			1#49	1572.81	-52.07	Vertical	-40	
				1572.96	-50.23	Horizontal		
			25#0	1559.60	-52.36	Vertical	-40	
				1559.35	-48.86	Horizontal		
			25#24	1565.08	-54.26	Vertical	-40	
				1566.09	-52.88	Horizontal		
			50#0	1559.35	-53.31	Vertical	-40	
				1559.55	-48.93	Horizontal		

Remark :

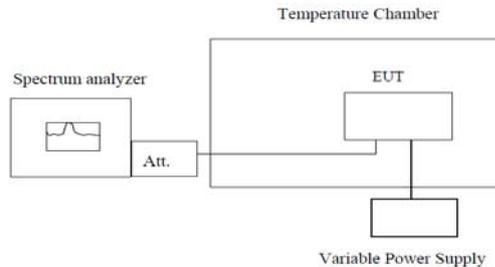
1. The emission behavior belongs to narrowband spurious emission.
2. The emission levels of below 1 GHz are very lower than the limit above 10dB and not show in test report.

3.7. Frequency stability

LIMIT

Within the authorized frequency block

TEST CONFIGURATION



Note : Measurement setup for testing on Antenna connector

TEST PROCEDURE

1. The equipment under test was connected to an external DC power supply and input rated voltage.
2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
3. The EUT was placed inside the temperature chamber.
4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.
5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
6. Repeat step measure with 10°C increased per stage until the highest temperature of +55°C reached.
7. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

TEST RESULTS

Remark: For this item, all test of Low/Middle/High channel have been test, the report only present the worse case

1. Temperature measurement:

Reference Frequency: Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	176	0.093617	2.5	Pass
	-20	175	0.093085		
	-10	165	0.087766		
	0	172	0.091489		
	10	146	0.077660		
	20	148	0.078723		
	30	167	0.088830		
	40	169	0.089894		
	50	174	0.092553		
Reference Frequency: Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	156	0.082979	2.5	Pass
	-20	165	0.087766		
	-10	148	0.078723		
	0	169	0.089894		
	10	174	0.092553		
	20	128	0.068085		
	30	168	0.089362		
	40	149	0.079255		
	50	158	0.084043		

Reference Frequency: Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	148	0.078723	2.5	Pass
	-20	128	0.068085		
	-10	135	0.071809		
	0	145	0.077128		
	10	169	0.089894		
	20	157	0.083511		
	30	142	0.075532		
	40	136	0.072340		
	50	140	0.074468		
Reference Frequency: Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	152	0.080851	2.5	Pass
	-20	160	0.085106		
	-10	148	0.078723		
	0	157	0.083511		
	10	125	0.066489		
	20	136	0.072340		
	30	174	0.092553		
	40	187	0.099468		
	50	154	0.081915		

Reference Frequency: Band 2(15MHz) Middle Middle channel=18900 channel=1880.00MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	149	0.079255	2.5	Pass
	-20	143	0.076064		
	-10	184	0.097872		
	0	169	0.089894		
	10	174	0.092553		
	20	136	0.072340		
	30	167	0.088830		
	40	162	0.086170		
	50	174	0.092553		
Reference Frequency: Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	122	0.064894	2.5	Pass
	-20	154	0.081915		
	-10	162	0.086170		
	0	187	0.099468		
	10	169	0.089894		
	20	165	0.087766		
	30	165	0.087766		
	40	149	0.079255		
	50	164	0.087234		

Reference Frequency: Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	147	0.084848	2.5	Pass
	-20	152	0.087734		
	-10	164	0.094661		
	0	128	0.073882		
	10	169	0.097547		
	20	174	0.100433		
	30	135	0.077922		
	40	160	0.092352		
	50	174	0.100433		
Reference Frequency: Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	165	0.095238	2.5	Pass
	-20	179	0.103319		
	-10	120	0.069264		
	0	136	0.078499		
	10	174	0.100433		
	20	152	0.087734		
	30	168	0.096970		
	40	165	0.095238		
	50	176	0.101587		

Reference Frequency: Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	184	0.106205	2.5	Pass
	-20	195	0.112554		
	-10	164	0.094661		
	0	174	0.100433		
	10	139	0.080231		
	20	144	0.083117		
	30	165	0.095238		
	40	168	0.096970		
	50	179	0.103319		
Reference Frequency: Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	159	0.091775	2.5	Pass
	-20	167	0.096392		
	-10	164	0.094661		
	0	184	0.106205		
	10	198	0.114286		
	20	165	0.095238		
	30	187	0.107937		
	40	192	0.110823		
	50	197	0.113709		

Reference Frequency: Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	168	0.096970	2.5	Pass
	-20	152	0.087734		
	-10	169	0.097547		
	0	174	0.100433		
	10	195	0.112554		
	20	164	0.094661		
	30	185	0.106782		
	40	195	0.112554		
	50	169	0.097547		
Reference Frequency: Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	188	0.108514	2.5	Pass
	-20	195	0.112554		
	-10	174	0.100433		
	0	169	0.097547		
	10	174	0.100433		
	20	198	0.114286		
	30	176	0.101587		
	40	184	0.106205		
	50	189	0.109091		

Reference Frequency: Band 7(5MHz) Middle channel=21100 channel=2535.00MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	195	0.076923	2.5	Pass
	-20	174	0.068639		
	-10	185	0.072978		
	0	168	0.066272		
	10	172	0.067850		
	20	134	0.052860		
	30	168	0.066272		
	40	197	0.077712		
	50	189	0.074556		
Reference Frequency: Band 7(10MHz) Middle channel=21100 channel=2535.00MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	190	0.074951	2.5	Pass
	-20	132	0.052071		
	-10	128	0.050493		
	0	156	0.061538		
	10	172	0.067850		
	20	195	0.076923		
	30	184	0.072584		
	40	193	0.076134		
	50	188	0.074162		

Reference Frequency: Band 7(15MHz) Middle channel=21100 channel=2535.00MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	169	0.066667	2.5	Pass
	-20	178	0.070217		
	-10	156	0.061538		
	0	189	0.074556		
	10	165	0.065089		
	20	197	0.077712		
	30	195	0.076923		
	40	183	0.072189		
	50	168	0.066272		
Reference Frequency: Band 7(20MHz) Middle channel=21100 channel=2535.00MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	169	0.066667	2.5	Pass
	-20	175	0.069034		
	-10	136	0.053649		
	0	184	0.072584		
	10	193	0.076134		
	20	174	0.068639		
	30	185	0.072978		
	40	150	0.059172		
	50	156	0.061538		

Reference Frequency: Band 12(1.4MHz) Middle channel=23095 channel=707.5MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	166	0.234629	2.5	Pass
	-20	185	0.261484		
	-10	139	0.196466		
	0	152	0.214841		
	10	120	0.169611		
	20	136	0.192226		
	30	174	0.245936		
	40	152	0.214841		
	50	155	0.219081		
Reference Frequency: Band 12(3MHz) Middle channel=23095 channel=707.5MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	155	0.219081	2.5	Pass
	-20	136	0.192226		
	-10	174	0.245936		
	0	125	0.176678		
	10	195	0.275618		
	20	132	0.186572		
	30	152	0.214841		
	40	133	0.187986		
	50	185	0.261484		

Reference Frequency: Band 12(5MHz) Middle channel=23095 channel=707.5MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	187	0.264311	2.5	Pass
	-20	186	0.262898		
	-10	165	0.233216		
	0	169	0.238869		
	10	174	0.245936		
	20	158	0.223322		
	30	136	0.192226		
	40	178	0.251590		
	50	152	0.214841		
Reference Frequency: Band 12(10MHz) Middle channel=23095 channel=707.5MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	165	0.233216	2.5	Pass
	-20	184	0.260071		
	-10	169	0.238869		
	0	135	0.190813		
	10	176	0.248763		
	20	128	0.180919		
	30	168	0.237456		
	40	184	0.260071		
	50	193	0.272792		

Reference Frequency: Band 13(5MHz) Middle channel=23230 channel=782.0MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	155	0.198210	2.5	Pass
	-20	175	0.223785		
	-10	169	0.216113		
	0	123	0.157289		
	10	174	0.222506		
	20	146	0.186701		
	30	134	0.171355		
	40	185	0.236573		
	50	154	0.196931		
Reference Frequency: Band 13(10MHz) Middle channel=23230 channel=782.0MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.85	-30	160	0.204604	2.5	Pass
	-20	124	0.158568		
	-10	161	0.205882		
	0	148	0.189258		
	10	159	0.203325		
	20	150	0.191816		
	30	174	0.222506		
	40	158	0.202046		
	50	196	0.250639		

2. Voltage measurement:

Reference Frequency: Band 2(1.4MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	125	0.066489	2.5	Pass
	3.85	174	0.092553		
	3.60	135	0.071809		
Reference Frequency: Band 2(3MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	154	0.081915	2.5	Pass
	3.85	165	0.087766		
	3.60	187	0.099468		
Reference Frequency: Band 2(5MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	169	0.089894	2.5	Pass
	3.85	182	0.096809		
	3.60	145	0.077128		
Reference Frequency: Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	135	0.071809	2.5	Pass
	3.85	172	0.091489		
	3.60	156	0.082979		
Reference Frequency: Band 2(15MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	165	0.087766	2.5	Pass
	3.85	152	0.080851		
	3.60	176	0.093617		
Reference Frequency: Band 2(20MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	161	0.085638	2.5	Pass
	3.85	195	0.103723		
	3.60	186	0.098936		

Reference Frequency: Band 4(1.4MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	188	0.108514	2.5	Pass
	3.85	165	0.095238		
	3.60	152	0.087734		
Reference Frequency: Band 4(3MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	184	0.106205	2.5	Pass
	3.85	150	0.086580		
	3.60	164	0.094661		
Reference Frequency: Band 4(5MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	155	0.089466	2.5	Pass
	3.85	147	0.084848		
	3.60	162	0.093506		
Reference Frequency: Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	166	0.095815	2.5	Pass
	3.85	129	0.074459		
	3.60	126	0.072727		
Reference Frequency: Band 4(15MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	179	0.103319	2.5	Pass
	3.85	159	0.091775		
	3.60	148	0.085426		
Reference Frequency: Band 4(20MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	168	0.096970	2.5	Pass
	3.85	172	0.099278		
	3.60	153	0.088312		

Reference Frequency: Band 7(5MHz) Middle channel=21100 channel=2535.00MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	185	0.072978	2.5	Pass
	3.85	142	0.056016		
	3.60	128	0.050493		
Reference Frequency: Band 7(15MHz) Middle channel=21100 channel=2535.00MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	165	0.065089	2.5	Pass
	3.85	178	0.070217		
	3.60	157	0.061933		
Reference Frequency: Band 7(20MHz) Middle channel=21100 channel=2535.00MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	198	0.078107	2.5	Pass
	3.85	174	0.068639		
	3.60	126	0.049704		

Reference Frequency: Band 12(1.4MHz) Middle channel=23095 channel=707.5MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	155	0.219081	2.5	Pass
	3.85	169	0.238869		
	3.60	176	0.248763		

Reference Frequency: Band 12(3MHz) Middle channel=23095 channel=707.5MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	168	0.237456	2.5	Pass
	3.85	117	0.165371		
	3.60	152	0.214841		

Reference Frequency: Band 12(5MHz) Middle channel=23095 channel=707.5MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	149	0.210601	2.5	Pass
	3.85	157	0.221908		
	3.60	160	0.226148		

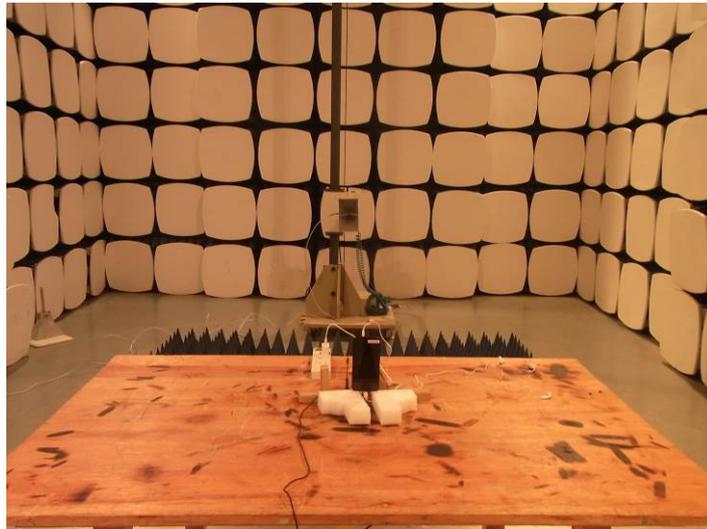
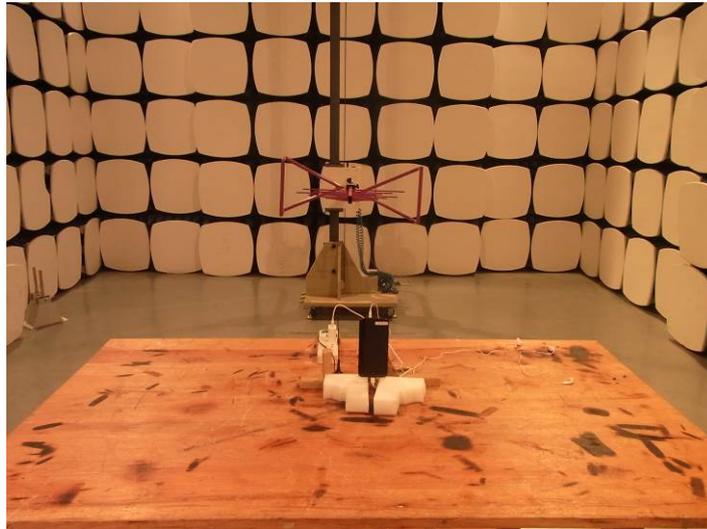
Reference Frequency: Band 12(10MHz) Middle channel=23095 channel=707.5MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	156	0.220495	2.5	Pass
	3.85	172	0.243110		
	3.60	139	0.196466		

Reference Frequency: Band 13(5MHz) Middle channel=23230 channel=782.0MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	166	0.212276	2.5	Pass
	3.85	174	0.222506		
	3.60	180	0.230179		

Reference Frequency: Band 13(10MHz) Middle channel=23230 channel=782.0MHz					
Temperature (°C)	Voltage (V)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.40	158	0.202046	2.5	Pass
	3.85	136	0.173913		
	3.60	187	0.239130		

4. EUT TEST PHOTOS

Radiated Emission





5. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Please reference to the test report No.: GTI20161071F-1

*****THE END*****