

Page:

Report No.: SZEM180700624404

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FCC TEST REPORT

Application No: SZEM1807006244RG

Applicant: Huawei Technologies Co.,Ltd.

Address of Applicant Administration Building, Headquarters of Huawei Technologies Co., Ltd.,

Bantian, Longgang District, Shenzhen, 518129, P.R.C

Manufacturer: Huawei Technologies Co.,Ltd.

Address of Manufacturer Administration Building, Headquarters of Huawei Technologies Co., Ltd.,

Bantian, Longgang District, Shenzhen, 518129, P.R.C

Product Name: Tablet

Model No.(EUT): AGS2-W19
Trade Mark:: HUAWEI

FCC ID: QISAGS2-W19

47 CFR FCC Part 2, Subpart J

Standards: 47 CFR FCC Part 15, Subpart C

47 CFR FCC Part 15, Subpart E

KDB 789033 D02 General UNII Test Procedures New Rules v02

FCC KDB 558074 D01 DTS Meas Guidance v04

Test Method KDB 789033 D02

KDB 905462 D02

ANSI C63.10-2013, American National Standard for Testing Unlicensed

Wireless Devices

Date of Receipt: 2018-07-10

Date of Test: 2018-07-11 to 2018-07-23

Date of Issue: 2018-07-24

Test Result: PASS *

. * In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Derek Yang

Wireless Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2018-07-24		Original

Authorized for issue by:		
Tested By	Mike Yu (Mike Hu) /Project Engineer	Date
Checked By	David Chen	
J. 100.100 2,	(David Chen) /Reviewer	Date



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3 Test Summary

Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
	5150-5250	15.403(i) 15.407(a)(1)			
Emission	5250-5350	15.403(i) 15.407(a)(2)	No limit.		
Bandwidth	5470-5725	15.403(i) 15.407(a)(2)		Clause 5.4	Pass
	5725-5850	15.403(i) 15.407(e)	≥ 500 kHz.	Clause 5.5	1 433
Occupied	5150-5250 5250-5350	KDB 789033	No limit.		
Bandwidth	5470-5725 5725-5850	D02§ D	NO IIIIIL.		
Duty Cycle	5150-5850	 	No limit.		
Duty Cycle	3130-3630	15.407(a)(1)	FCC < 250mW		1
ı	5150-5250	15.407(a)(1)	(avg during transmission)		
İ		13.407 (a)(4)	<pre><min{250mw,11dbm+10*lg< pre=""></min{250mw,11dbm+10*lg<></pre>	-	
	5250-5350	15.407(a)(2)	(EBW)) (avg during		
Maximum	3230-3330	15.407(a)(4)	transmission)		
Conducted			<min{250mw,11dbm+10*lg< td=""><td>Clause 5.3</td><td></td></min{250mw,11dbm+10*lg<>	Clause 5.3	
Output Power	5470-5725	15.407(a)(2)	(EBW)) (avg during		
	3470-3723	15.407(a)(4)	` " `		
			transmission) < 1W		Pass
	5725-5850	15.407(a)(3)			Fass
		4F 407(a)(4)	(avg during transmission) <11dBm/MHz		
	5150-5250	15.407(a)(1)			
ma avrima uma	5250-5350 15.407(a	15.407(a)(4)	(avg during transmission) <11dBm/MHz	_	
maximum			-		
Power		15.407(a)(4)	(avg during transmission) <11dBm/MHz	Clause 5.6	
Spectral	5470-5725	15.407(a)(2)			
Density		15.407(a)(4)	(avg during transmission) <30dBm/500KHz	-	
	5725-5850	15.407(a)(3)			
		15.407(a)(4)	(avg during transmission)		
Unwanted Emissions that fall Outside of the Restricted	5150-5250	15.407(b)(1) 15.407(b)(6) 15.407(b)(7) 15.209	 F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & outrestricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). 	Clause 5.7	Pass
Bands(Radiat ed)	5250-5350	15.407(b)(2) 15.407(b)(6) 15.407(b)(7) 15.209	 F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out- restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit 		



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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
			(AV&PK).		
	5470-5750	15.407(b)(3) 15.407(b)(6) 15.407(b)(7) 15.209	 F<1GHz: §15.209/§7.2.5 limit (QP). F≥1GHz & out- restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). 		
	5725-5850	15.407(b)(4) 15.407(b)(6) 15.407(b)(7) 15.209	 F<1GHz: §15.209/§7.2.5 limit (QP) F≥1GHz &out- restricted:(QP) a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 75 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. F≥1GHz & in-restricted: §15.209/§7.2.5 limit (AV&PK). 		
Unwanted Emissions in theRestricted Bands (Radiated)	5150-5250 5250-5350 5470-5725 5725-5850	15.209	FCC: Part 15.209	Clause 5.8	Pass
AC Power Line Conducted Emissions	5150-5250 5250-5350 5470-5725 5725-5850	15.207	FCC:Part 15.207 conducted limit;	Clause 5.2	Pass
Frequence Stability	5150-5250 5250-5350 5470-5725 5725-5850	15.407(g)	FCC Part 15.407(g)	Clause 5.9	Pass
DFS: Non- occupancy	5250-5350 5470-5725	47 CFR Part 15, Subpart E 15.407	Minimum 30 minutes	Clause 5.10	Pass



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Test Item	Band	FCC Rule	Requirements	Test Result	Verdict
period					
DFS: Channel Move Time		47 CFR Part 15, Subpart E 15.407	10 seconds		Pass
DFS: Channel Closing Transmission Time		47 CFR Part 15, Subpart E 15.407	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period.		Pass



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4 General Information

4.1 Client Information

Applicant:	Huawei Technologies Co.,Ltd.
Address of Applicant:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian,Longgang District, Shenzhen, 518129, P.R.C
Manufacturer:	Huawei Technologies Co.,Ltd.
Address of Manufacturer:	Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

4.2 General Description of EUT

Product Name:	Tablet
Model No.:	AGS2-W19
Trade Mark:	HUAWEI
Hardware Version:	A6t6e
Software Version:	AGS2-W19 8.0.0.11 (C605)
Operation Frequency:	IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80): 5150MHz to 5250MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80): 5250MHz to 5350MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80): 5470MHz to 5725MHz IEEE 802.11a/ n(HT20/40)/ ac(HT20/40/80): 5725MHz to 5850MHz
	* The 5580-5650MHz can not be used.
Type of Modulation:	IEEE 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11ac: OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)
DFS mode:	Slave without radar detection
Sample Type:	Portable Device
Antenna Type:	PIFA
Antenna Gain:	1dBi,
EUT Power Supply:	Battery Model: HB2899C0ECW-C Rated capacity: 4980mAh
	Nominal Voltage: +3.82V
	Charging Voltage: +4.40V
AC adaptor:	Model: HW-050100U01 Input: 100-240V ~50/60Hz 0.2A
	Output: 5V === 1A



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Note:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5180
IEEE 802.11a/n/ac 20MHz	The Middle channel	5200
	The Highest channel	5240
	The Lowest channel	5190
IEEE 802.11n/ac 40MHz	The Highest channel	5230
IEEE 802.11ac 80MHz	The Middle channel	5210

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5260
IEEE 802.11a/n/ac 20MHz	The Middle channel	5280
	The Highest channel	5320
JEEE 000 44 / 40MH	The Lowest channel	5270
IEEE 802.11n/ac 40MHz	The Highest channel	5310
IEEE 802.11ac 80MHz The Middle channel		5290

For UNII Band II-C:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5500
IEEE 802.11a/n/ac 20MHz	The Middle channel	5600
	The Highest channel	5720
IEEE 802.11n/ac 40MHz	The Lowest channel	5510
	The Middle channel	5670
	The Highest channel	5710
IEEE 802.11ac 80MHz	The Lowest channel	5530
	The Highest channel	5690



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For UNII Band III:

Mode	Channel	Frequency(MHz)
	The Lowest channel	5745
IEEE 802.11a/n/ac 20MHz	The Middle channel	5785
	The Highest channel	5825
	The Lowest channel	5755
IEEE 802.11n/ac 40MHz	The Highest channel	5795
IEEE 802.11ac 80MHz	The Middle channel	5775



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4.3 Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	101.32 KPa
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.7 Deviation from Standards

None.



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4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.

5 Test results and Measurement Data

5.1 Antenna Requirement

Test Requirement:	47 CFR Part 15 Section 15.203				
The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna					
1dBi.					

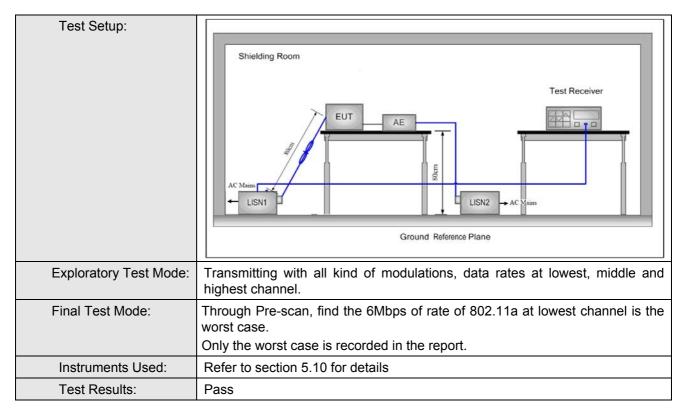
5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:	F	Limit	(dBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm	n of the frequency.			
Test Procedure:					



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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Note1: Mode Telecom Idle+BT+WLAN 5G+GPS Rx+earphone+playing MP4+battery+adapter2

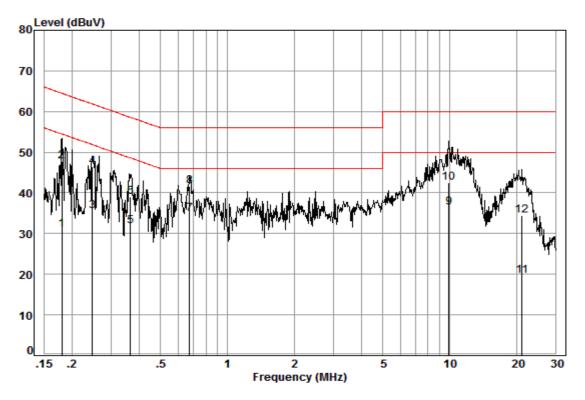
Note2: Only the worse test data had been displayed



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Live Line:



Site : Shielding Room

Condition: Line Job No. : 06244RG

Test mode: d

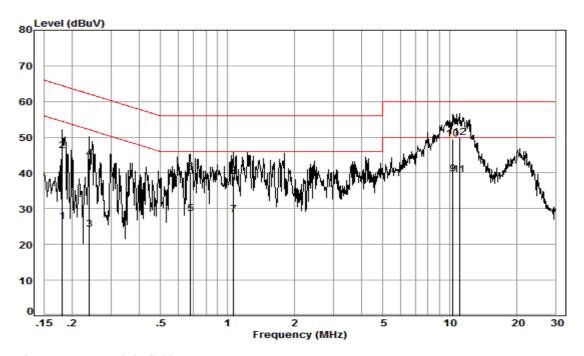
		Cable	LISN	Read		Limit	0ver	
	Freq	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.03	9.51	21.40	30.94	54.50	-23.56	Average
2	0.18	0.03	9.51	38.20	47.74	64.50	-16.76	QP
3	0.25	0.03	9.51	26.05	35.59	51.86	-16.27	Average
4	0.25	0.03	9.51	36.87	46.41	61.86	-15.45	QP
5	0.37	0.03	9.50	22.31	31.84	48.56	-16.72	Average
6	0.37	0.03	9.50	29.54	39.07	58.56	-19.49	QP
7	0.68	0.07	9.50	25.27	34.84	46.00	-11.16	Average
8	0.68	0.07	9.50	31.98	41.55	56.00	-14.45	QP
9	9.91	0.20	9.63	26.55	36.38	50.00	-13.62	Average
10	9.91	0.20	9.63	32.59	42.42	60.00	-17.58	QP
11	21.15	0.27	9.77	9.64	19.68	50.00	-30.32	Average
12	21.15	0.27	9.77	24.31	34.35	60.00	-25.65	QP



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Neutral Line:



Site : Shielding Room

Condition: Neutral Job No. : 06244RG

Test mode: d

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.18	0.03	9.58	16.69	26.30	54.46	-28.16	Average
2	0.18	0.03	9.58	36.62	46.23	64.46	-18.23	QP
3	0.24	0.03	9.58	14.66	24.27	52.13	-27.86	Average
4	0.24	0.03	9.58	34.35	43.96	62.13	-18.17	QP
5	0.68	0.07	9.62	18.91	28.60	46.00	-17.40	Average
6	0.68	0.07	9.62	30.50	40.19	56.00	-15.81	QP
7	1.07	0.10	9.63	18.52	28.25	46.00	-17.75	Average
8	1.07	0.10	9.63	29.29	39.02	56.00	-16.98	QP
9	10.34	0.20	9.79	29.63	39.62	50.00	-10.38	Average
10	10.34	0.20	9.79	39.59	49.58	60.00	-10.42	QP
11	11.08	0.21	9.82	29.34	39.37	50.00	-10.63	Average
12	11.08	0.21	9.82	39.79	49.82	60.00	-10.18	QP

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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5.3 Conducted Output Power

Test Requirement:	47 CFR Part 15 Sect	ion 15.407(a)				
Test Method:	ANSI C63.10: 2013					
Test Setup:	N	E.U.T Con-Conducted Table ound Reference Plane				
Test Instruments:	Refer to section 5.10 for details					
Exploratory Test Mode:	Transmitting with all k	ind of modulations, data rates				
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40); MCS0 of rate is the worst case of 802.11ac(HT20); MCS0 of rate is the worst case of 802.11ac(HT40); MCS0 of rate is the worst case of 802.11ac(HT80) Only the worst case is recorded in the report.					
Limit:	Frequency Band	Limit				
	5150-5250MHz	Not exceed 250mW(24dBm)				
	5250-5350MHz	The lesser of 250mW(24dBm) or 11+ 10logB				
	5470-5725MHz The lesser of 250mW(24dBm) or 11+ 10logB					
	5725-5850MHz Not exceed 1W(30dBm)					
	*Where B is the 26dB	emission bandwidth in MHz				
Test Results:	Pass					



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Measurement Data:

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Meas. Level (EIRP) [dBm]	Verdict
	36	5180	ANT 1	15.92	16.92	PASS
	40	5200	ANT 1	16.12	17.12	PASS
	48	5240	ANT 1	16.21	17.21	PASS
	52	5260	ANT 1	16.11	17.11	PASS
	56	5280	ANT 1	16.29	17.29	PASS
11A20	64	5320	ANT 1	16.41	17.41	PASS
117720	100	5500	ANT 1	16.59	17.59	PASS
	120	5600	ANT 1	16.53	17.53	PASS
	144	5720	ANT 1	16.29	17.29	PASS
	149	5745	ANT 1	15.95	16.95	PASS
	157	5785	ANT 1	16.13	17.13	PASS
	165	5825	ANT 1	16.09	17.09	PASS
	36	5180	ANT 1	16.12	17.12	PASS
	40	5200	ANT 1	16.25	17.25	PASS
	48	5240	ANT 1	16.19	17.19	PASS
	52	5260	ANT 1	16.26	17.26	PASS
	56	5280	ANT 1	16.16	17.16	PASS
11N20	64	5320	ANT 1	16.09	17.09	PASS
111120	100	5500	ANT 1	16.12	17.12	PASS
	120	5600	ANT 1	16.32	17.32	PASS
	144	5720	ANT 1	15.92	16.92	PASS
	149	5745	ANT 1	16.06	17.06	PASS
	157	5785	ANT 1	16.31	17.31	PASS
	165	5825	ANT 1	16.26	17.26	PASS
	38	5190	ANT 1	10.65	11.65	PASS
	46	5230	ANT 1	10.97	11.97	PASS
	54	5270	ANT 1	11.36	12.36	PASS
11N40	62	5310	ANT 1	11.08	12.08	PASS
	102	5510	ANT 1	11.04	12.04	PASS
	142	5710	ANT 1	11.07	12.07	PASS
	134	5670	ANT 1	11.01	12.01	PASS



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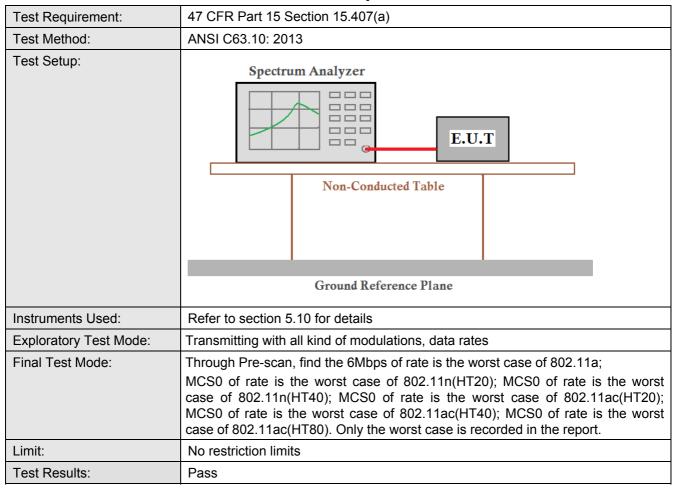
	151	5755	ANT 1	10.79	11.79	PASS
	159	5795	ANT 1	10.92	11.92	PASS
	36	5180	ANT 1	16.11	17.11	PASS
	40	5200	ANT 1	16.28	17.28	PASS
	48	5240	ANT 1	16.21	17.21	PASS
	52	5260	ANT 1	16.04	17.04	PASS
	56	5280	ANT 1	16.11	17.11	PASS
11AC20	64	5320	ANT 1	16.21	17.21	PASS
TIACZU	100	5500	ANT 1	16.23	17.23	PASS
	120	5600	ANT 1	16.03	17.03	PASS
	144	5720	ANT 1	16.1	17.1	PASS
	149	5745	ANT 1	16.26	17.26	PASS
	157	5785	ANT 1	16.28	17.28	PASS
	165	5825	ANT 1	16.29	17.29	PASS
	38	5190	ANT 1	10.32	11.32	PASS
	46	5230	ANT 1	10.41	11.41	PASS
	54	5270	ANT 1	10.48	11.48	PASS
	62	5310	ANT 1	10.77	11.77	PASS
11AC40	102	5510	ANT 1	10.76	11.76	PASS
	142	5710	ANT 1	10.38	11.38	PASS
	134	5670	ANT 1	10.94	11.94	PASS
	151	5755	ANT 1	10.71	11.71	PASS
	159	5795	ANT 1	10.88	11.88	PASS
	42	5210	ANT 1	10.13	11.13	PASS
	58	5290	ANT 1	10.12	11.12	PASS
11AC80	106	5530	ANT 1	10.41	11.41	PASS
	138	5690	ANT 1	10.54	11.54	PASS
	155	5775	ANT 1	10.22	11.22	PASS



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5.4 Emission Bandwidth and 99% Occupied Bandwidth





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5.4.1 Measurement Data:

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Occupied Bandwidth [MHz]	Verdict
	36	5180	ANT 1	19.94	16.74	PASS
	40	5200	ANT 1	19.86	16.70	PASS
	48	5240	ANT 1	19.86	16.78	PASS
	52	5260	ANT 1	19.70	16.74	PASS
11A20	56	5280	ANT 1	19.78	16.70	PASS
	64	5320	ANT 1	19.78	16.70	PASS
	100	5500	ANT 1	19.90	16.70	PASS
	120	5600	ANT 1	19.94	16.70	PASS
	144	5720	ANT 1	19.90	16.70	PASS
	36	5180	ANT 1	20.30	17.74	PASS
	40	5200	ANT 1	20.30	17.74	PASS
	48	5240	ANT 1	20.26	17.74	PASS
	52	5260	ANT 1	20.26	17.70	PASS
11N20	56	5280	ANT 1	20.30	17.74	PASS
	64	5320	ANT 1	20.38	17.70	PASS
	100	5500	ANT 1	20.34	17.70	PASS
	120	5600	ANT 1	20.38	17.70	PASS
	144	5720	ANT 1	20.46	17.70	PASS
	38	5190	ANT 1	39.40	35.88	PASS
	46	5230	ANT 1	39.48	35.88	PASS
	54	5270	ANT 1	39.64	35.96	PASS
11N40	62	5310	ANT 1	39.56	35.96	PASS
	102	5510	ANT 1	39.48	35.88	PASS
	134	5670	ANT 1	39.40	35.88	PASS
	142	5710	ANT 1	39.48	35.96	PASS
	36	5180	ANT 1	20.46	17.74	PASS
	40	5200	ANT 1	20.30	17.74	PASS
	48	5240	ANT 1	20.50	17.74	PASS
11AC20	52	5260	ANT 1	20.38	17.70	PASS
	56	5280	ANT 1	20.42	17.74	PASS
	64	5320	ANT 1	20.30	17.74	PASS
	100	5500	ANT 1	20.22	17.74	PASS

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	120	5600	ANT 1	20.26	17.70	PASS
	144	5720	ANT 1	20.30	17.70	PASS
	38	5190	ANT 1	39.56	35.88	PASS
	46	5230	ANT 1	39.32	35.88	PASS
	54	5270	ANT 1	39.32	35.96	PASS
11AC40	62	5310	ANT 1	39.40	35.88	PASS
	102	5510	ANT 1	39.40	35.88	PASS
	134	5670	ANT 1	39.56	35.88	PASS
	142	5710	ANT 1	39.48	35.88	PASS
	42	5210	ANT 1	80.88	74.97	PASS
11AC80	58	5290	ANT 1	80.72	74.81	PASS
	106	5530	ANT 1	80.56	74.81	PASS
	138	5690	ANT 1	81.20	74.81	PASS

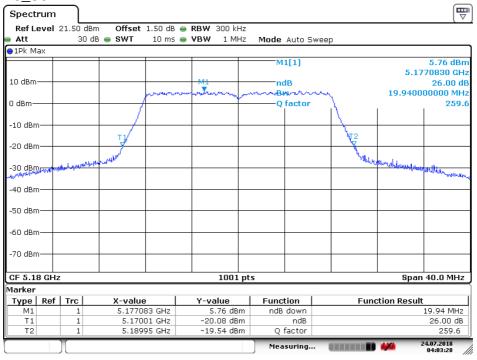


Report No.: SZEM180700624404

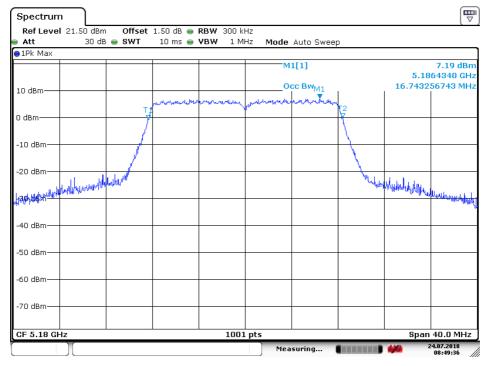
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5.4.2 Plots for 26dB Emission Bandwidth & 99% Occupied Bandwidth

5.4.2.1 11A20 36 ANT 1



Date: 24 JUL.2018 04:03:28



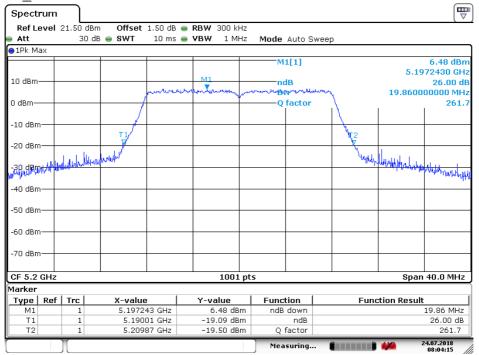
Date: 24 JUL.2018 08:49:37



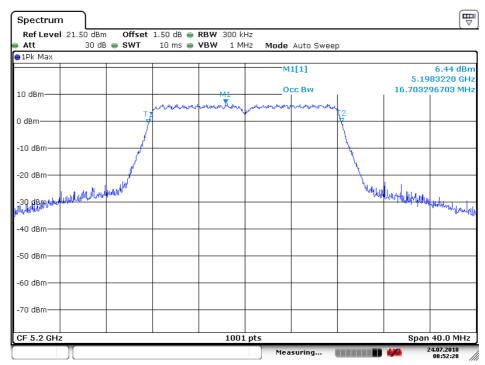
Report No.: SZEM180700624404

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5.4.2.2 11A20 40 ANT 1



Date: 24.JUL.2018 08:04:15



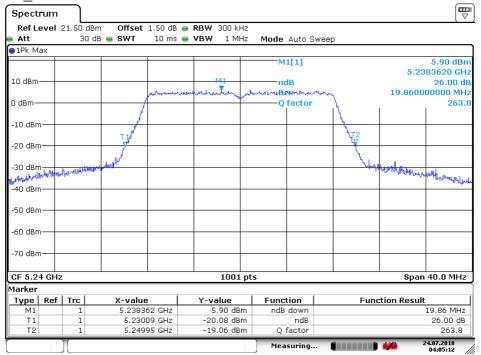
Date: 24 JUL.2018 08:52:28



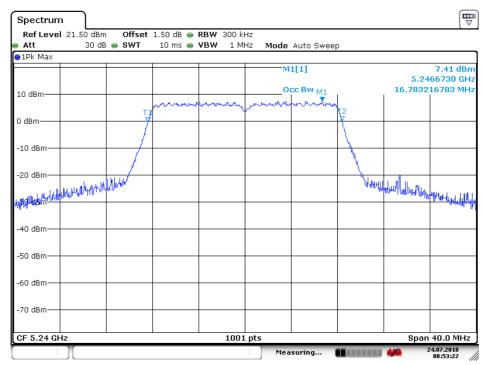
Report No.: SZEM180700624404

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5.4.2.3 11A20 48 ANT 1



Date: 24 JUL.2018 04:05:12



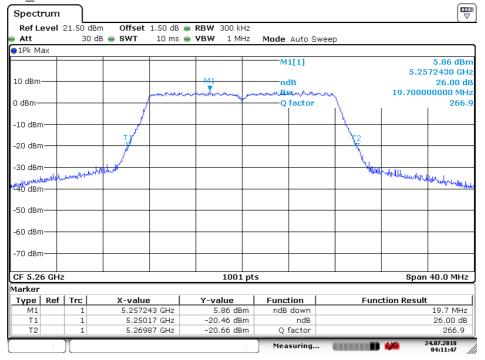
Date: 24 JUL.2018 08:53:23



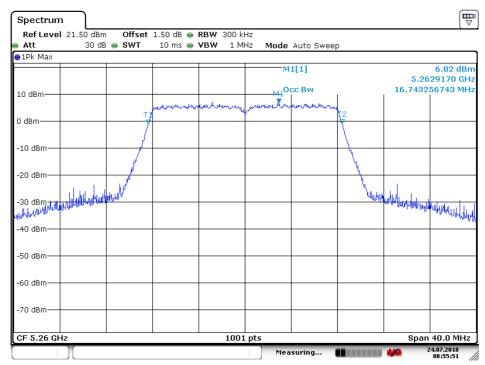
Report No.: SZEM180700624404

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5.4.2.4 11A20_52 ANT 1



Date: 24 JUL.2018 04:11:47



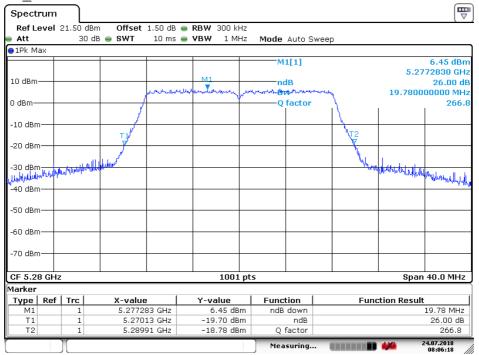
Date: 24 JUL.2018 08:55:52



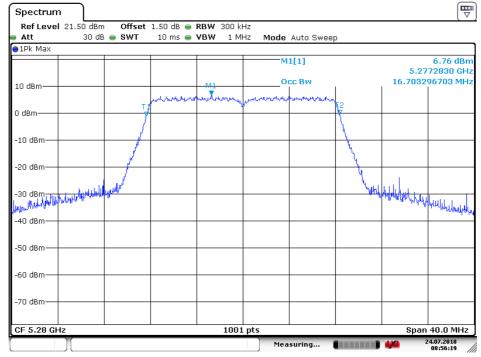
Report No.: SZEM180700624404

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5.4.2.5 11A20_56 ANT 1



Date: 24 JUL.2018 08:06:18



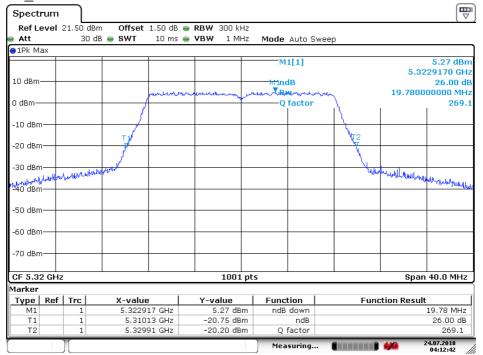
Date: 24 JUL.2018 08:56:20



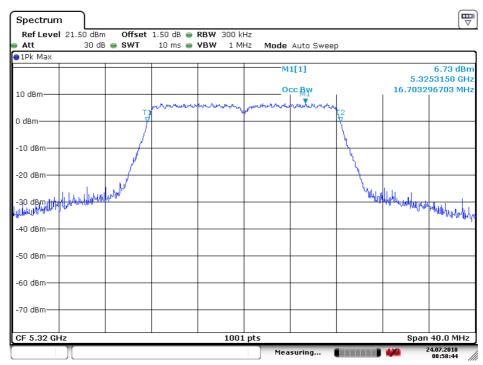
Report No.: SZEM180700624404

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5.4.2.6 11A20_64 ANT 1



Date: 24 JUL.2018 04:12:43



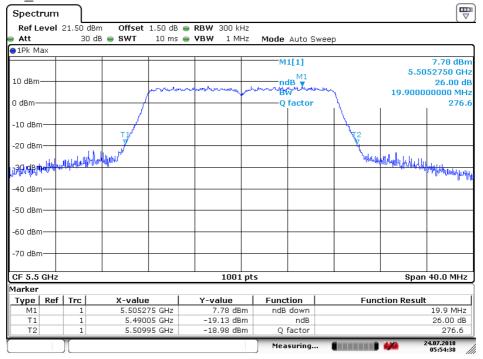
Date: 24 JUL.2018 08:58:45



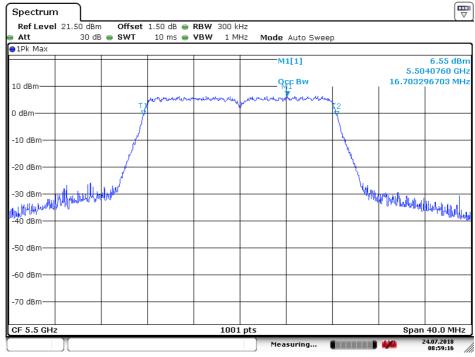
Report No.: SZEM180700624404

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5.4.2.7 11A20_100 ANT 1



Date: 24 JUL.2018 05:54:39



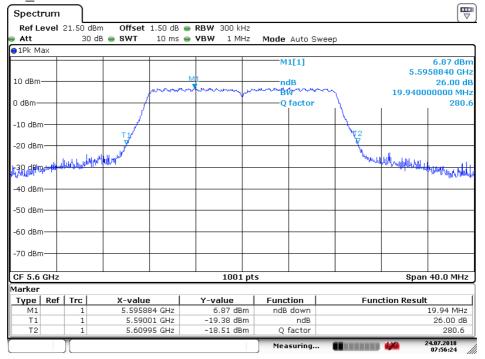
Date: 24 JUL.2018 08:59:16



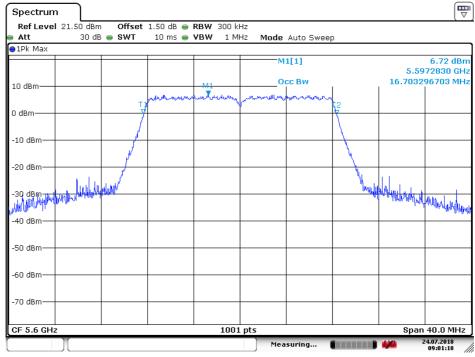
Report No.: SZEM180700624404

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5.4.2.8 11A20_120 ANT 1



Date: 24 JUL.2018 07:56:24



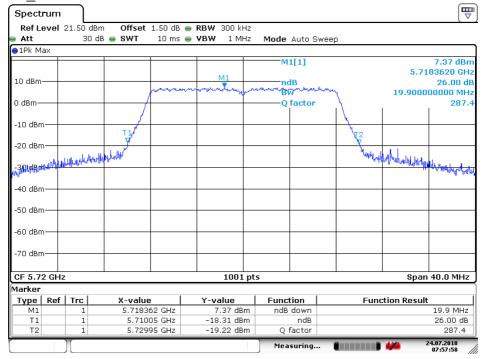
Date: 24 JUL.2018 09:01:18



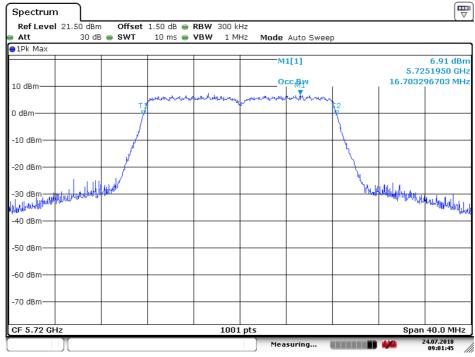
Report No.: SZEM180700624404

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5.4.2.9 11A20_144 ANT 1



Date: 24 JUL.2018 07:57:58



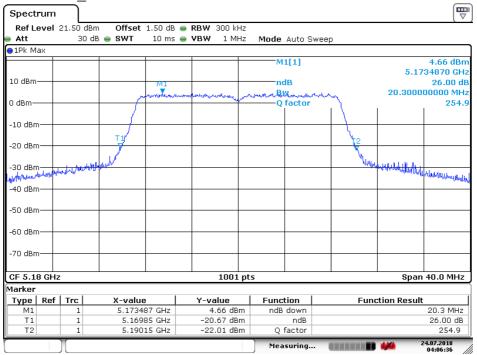
Date: 24 JUL.2018 09:01:46



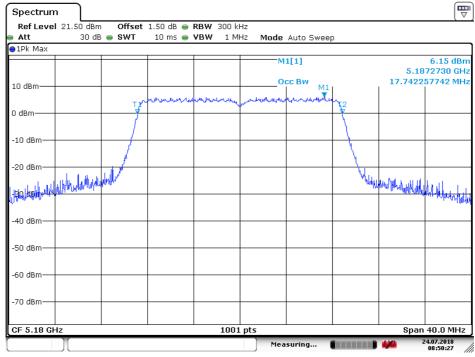
Report No.: SZEM180700624404

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5.4.2.10 11N20 36 ANT 1



Date: 24 JUL.2018 04:06:36



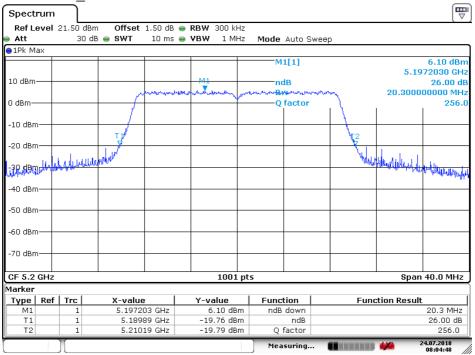
Date: 24 JUL.2018 08:50:27



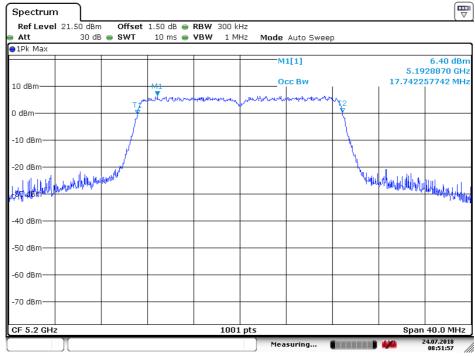
Report No.: SZEM180700624404

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5.4.2.11 11N20 40 ANT 1



Date: 24 JUL.2018 08:04:49



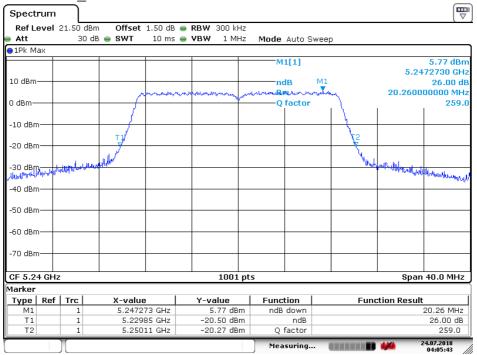
Date: 24 JUL.2018 08:51:58



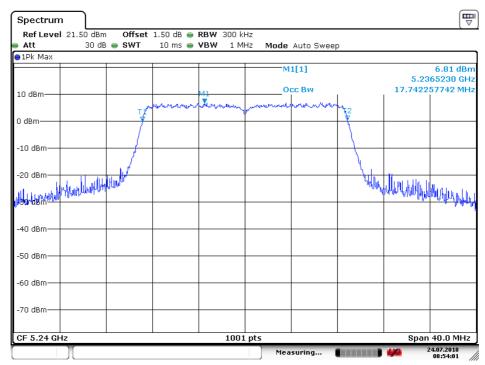
Report No.: SZEM180700624404

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5.4.2.12 11N20 48 ANT 1



Date: 24 JUL.2018 04:05:43



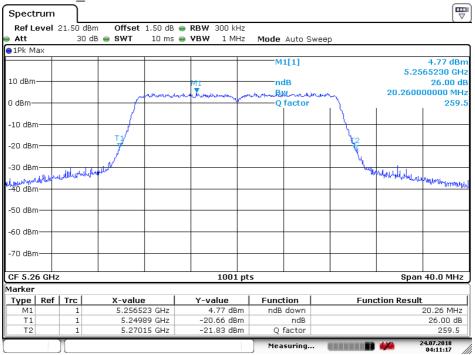
Date: 24 JUL.2018 08:54:02



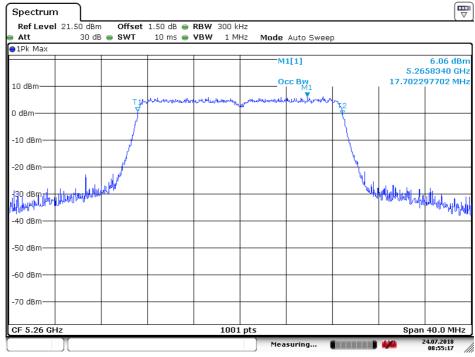
Report No.: SZEM180700624404

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5.4.2.13 11N20 52 ANT 1



Date: 24 JUL.2018 04:11:17



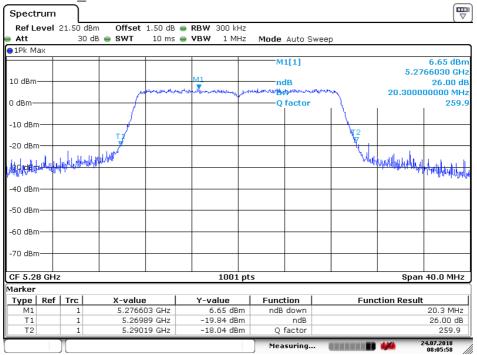
Date: 24 JUL.2018 08:55:18



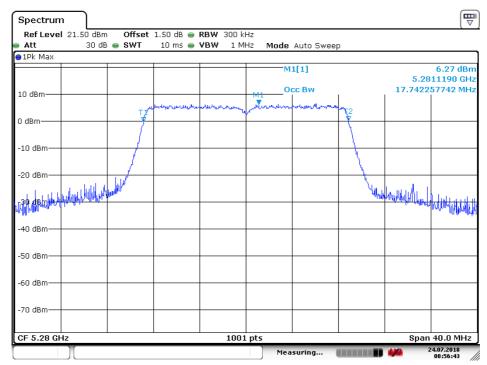
Report No.: SZEM180700624404

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5.4.2.14 11N20 56 ANT 1



Date: 24 JUL.2018 08:05:58



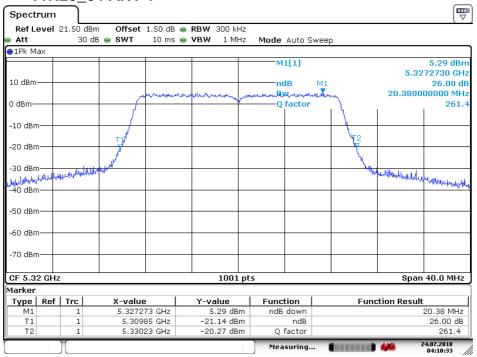
Date: 24 JUL.2018 08:56:43



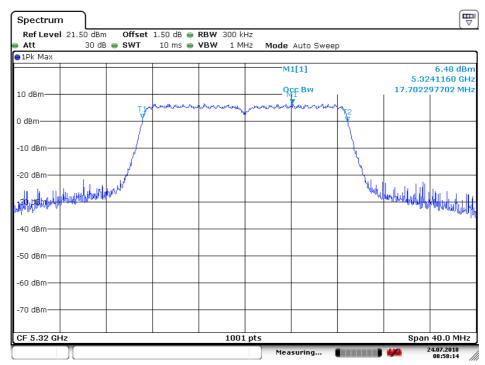
Report No.: SZEM180700624404

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5.4.2.15 11N20 64 ANT 1



Date: 24 JUL.2018 04:10:33



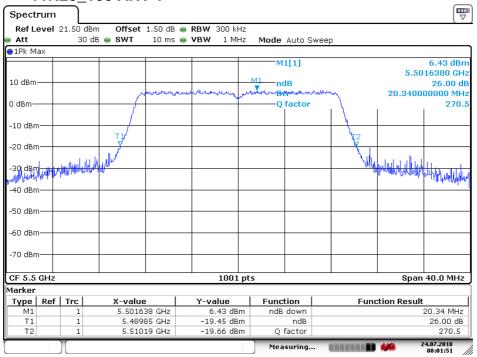
Date: 24 JUL.2018 08:58:15



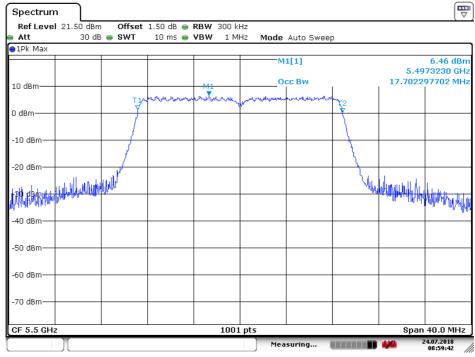
Report No.: SZEM180700624404

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5.4.2.16 11N20_100 ANT 1



Date: 24 JUL.2018 08:01:51



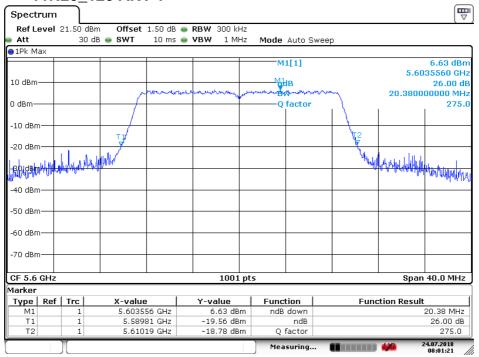
Date: 24 JUL.2018 08:59:42



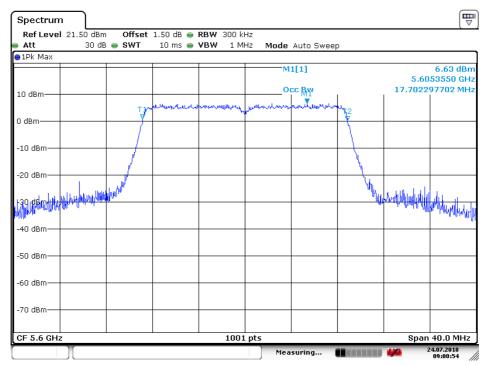
Report No.: SZEM180700624404

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5.4.2.17 11N20_120 ANT 1



Date: 24 JUL.2018 08:01:22



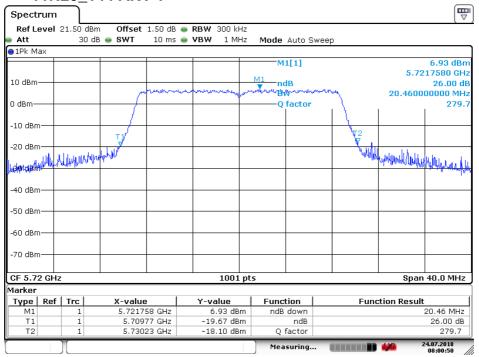
Date: 24 JUL.2018 09:00:54



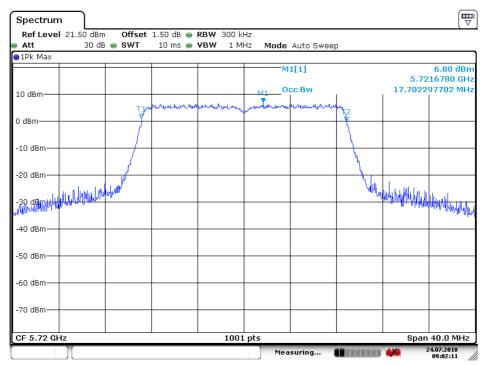
Report No.: SZEM180700624404

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5.4.2.18 11N20 144 ANT 1



Date: 24 JUL.2018 08:00:50



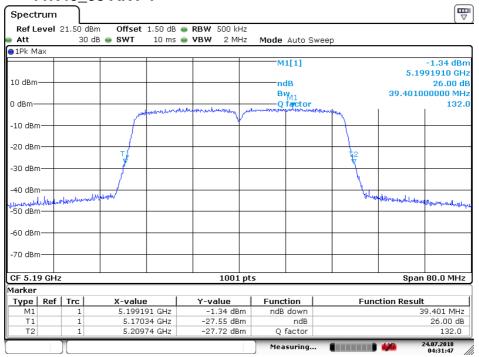
Date: 24 JUL.2018 09:02:11



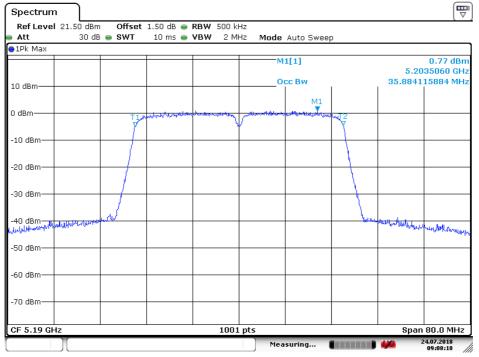
Report No.: SZEM180700624404

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5.4.2.19 11N40 38 ANT 1



Date: 24 JUL.2018 04:31:47



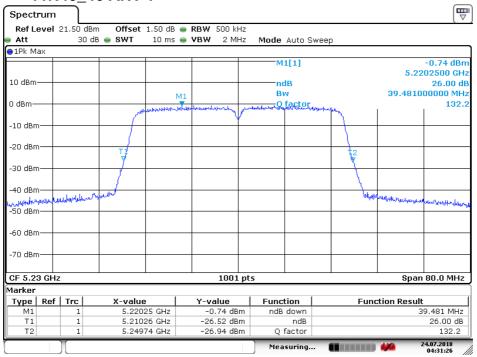
Date: 24 JUL.2018 09:08:18



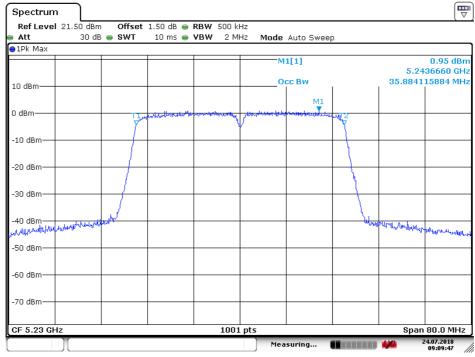
Report No.: SZEM180700624404

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5.4.2.20 11N40 46 ANT 1



Date: 24 JUL.2018 04:31:27



Date: 24 JUL.2018 09:09:48



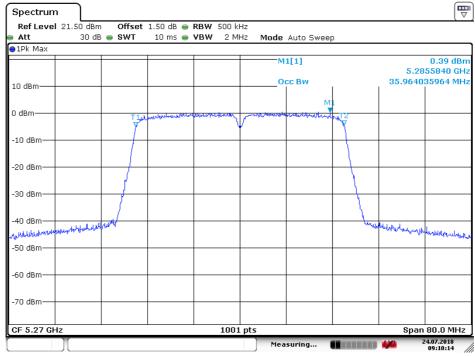
Report No.: SZEM180700624404

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5.4.2.21 11N40 54 ANT 1



Date: 24 JUL.2018 04:34:01



Date: 24 JUL.2018 09:10:15



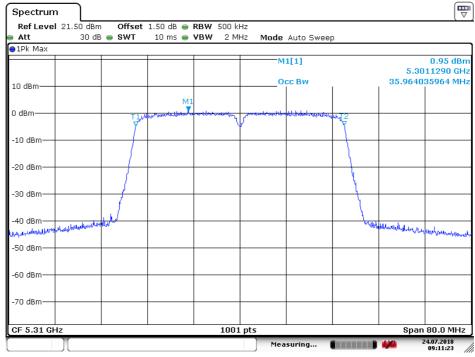
Report No.: SZEM180700624404

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5.4.2.22 11N40 62 ANT 1



Date: 24 JUL.2018 04:33:38



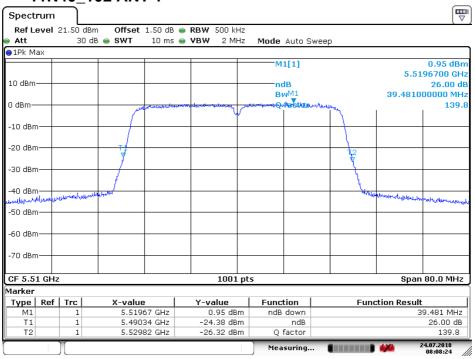
Date: 24 JUL.2018 09:11:24



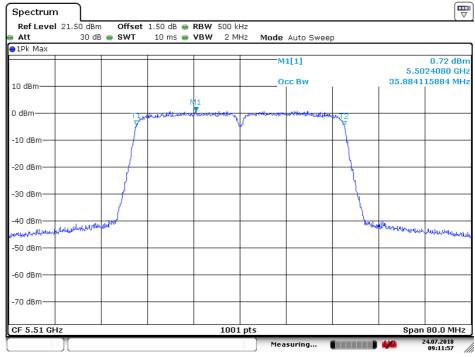
Report No.: SZEM180700624404

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5.4.2.23 11N40_102 ANT 1



Date: 24 JUL.2018 08:08:24



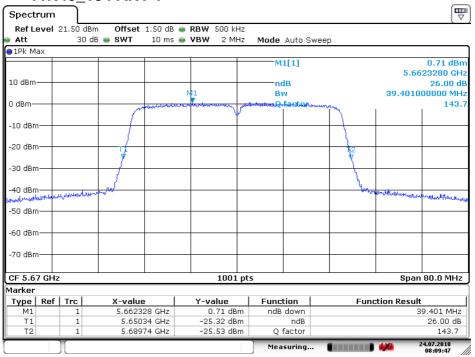
Date: 24 JUL.2018 09:11:57



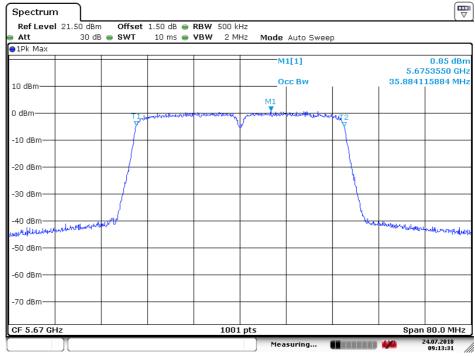
Report No.: SZEM180700624404

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5.4.2.24 11N40 134 ANT 1



Date: 24 JUL.2018 08:09:48



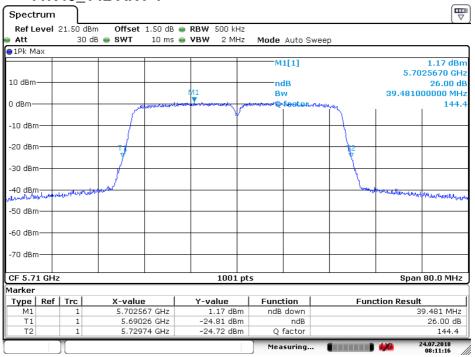
Date: 24 JUL.2018 09:13:32



Report No.: SZEM180700624404

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5.4.2.25 11N40 142 ANT 1



Date: 24 JUL.2018 08:11:15



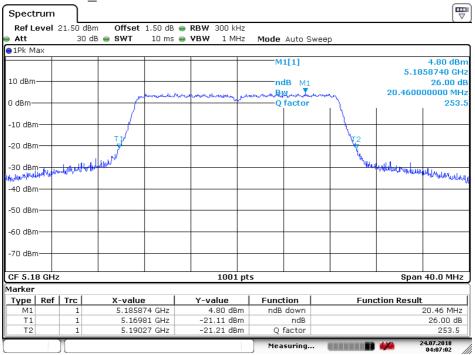
Date: 24 JUL.2018 09:13:02



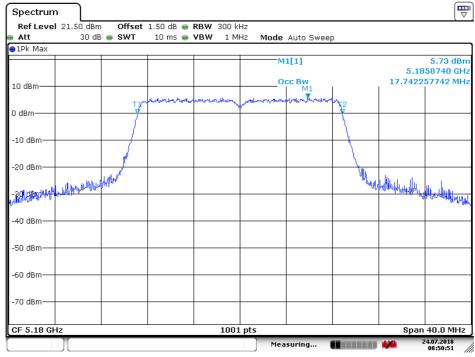
Report No.: SZEM180700624404

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5.4.2.26 11AC20_36 ANT 1



Date: 24 JUL.2018 04:07:03



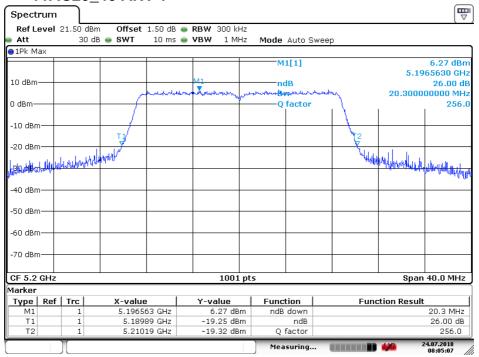
Date: 24 JUL.2018 08:50:51



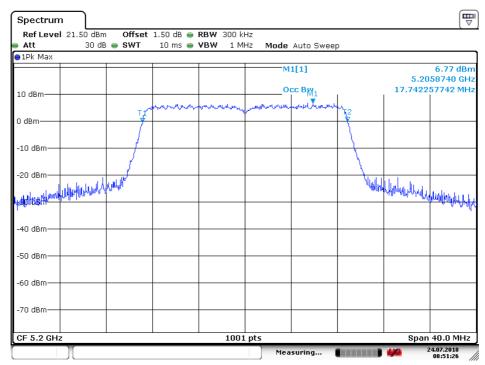
Report No.: SZEM180700624404

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5.4.2.27 11AC20 40 ANT 1



Date: 24 JUL.2018 08:05:08



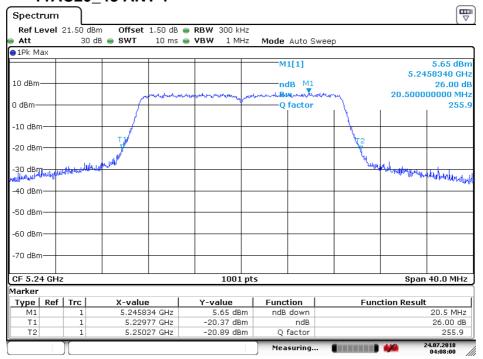
Date: 24 JUL.2018 08:51:27



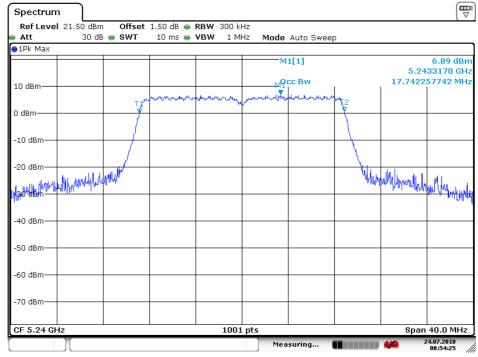
Report No.: SZEM180700624404

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5.4.2.28 11AC20 48 ANT 1



Date: 24 JUL.2018 04:08:00



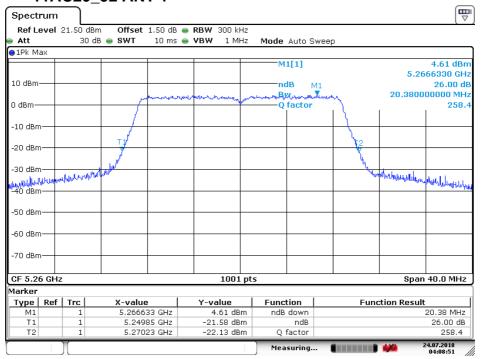
Date: 24 JUL.2018 08:54:25



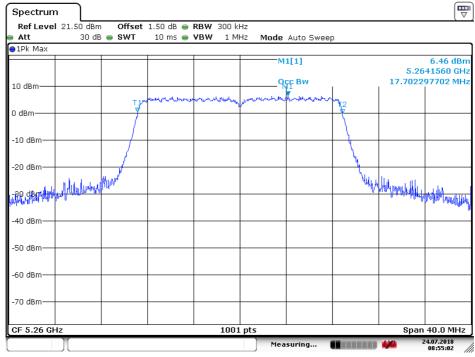
Report No.: SZEM180700624404

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5.4.2.29 11AC20_52 ANT 1



Date: 24 JUL.2018 04:08:51



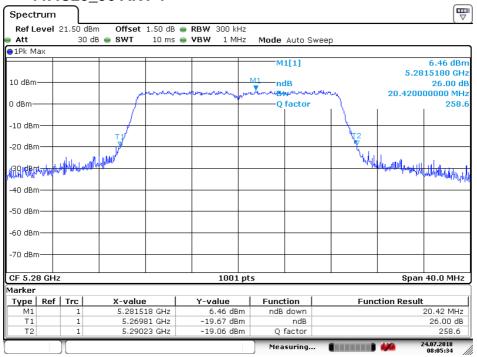
Date: 24 JUL.2018 08:55:02



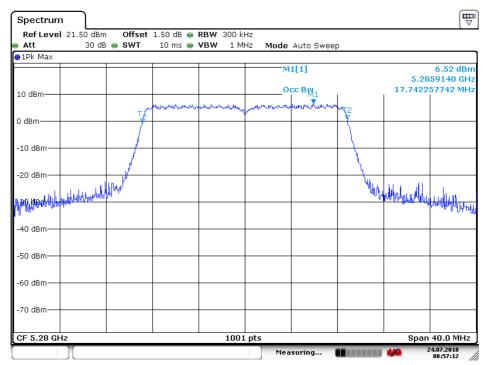
Report No.: SZEM180700624404

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5.4.2.30 11AC20_56 ANT 1



Date: 24 JUL.2018 08:05:34



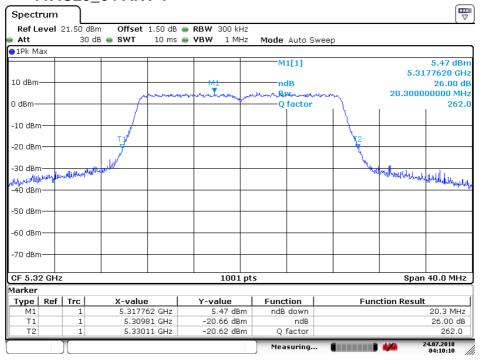
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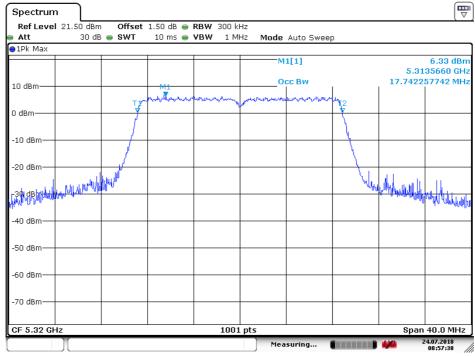
Report No.: SZEM180700624404

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5.4.2.31 11AC20_64 ANT 1



Date: 24 JUL.2018 04:10:10



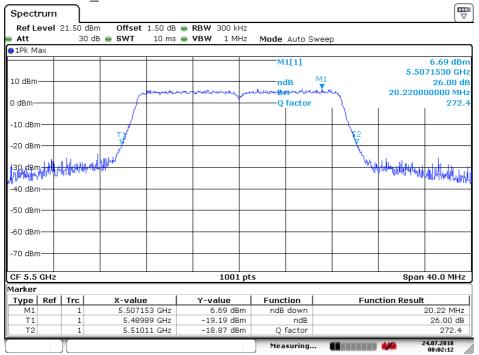
Date: 24 JUL.2018 08:57:39



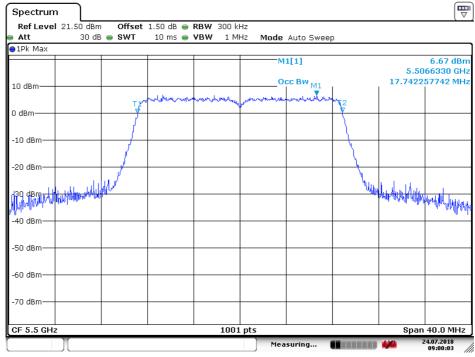
Report No.: SZEM180700624404

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5.4.2.32 11AC20_100 ANT 1



Date: 24 JUL.2018 08:02:12



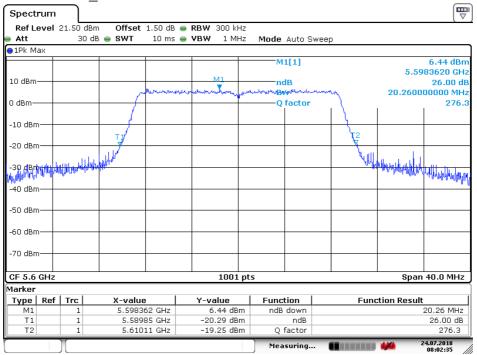
Date: 24 JUL.2018 09:00:04



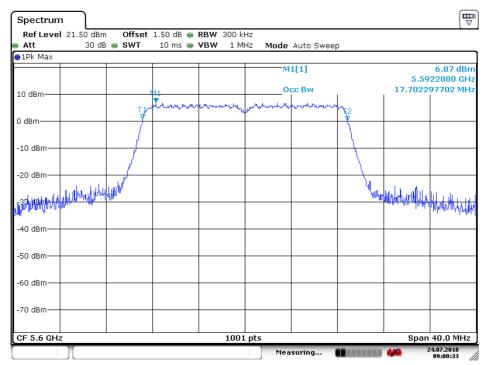
Report No.: SZEM180700624404

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5.4.2.33 11AC20_120 ANT 1



Date: 24 JUL.2018 08:02:36



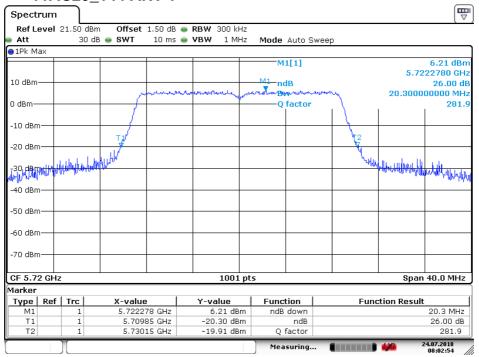
Date: 24 JUL.2018 09:00:34



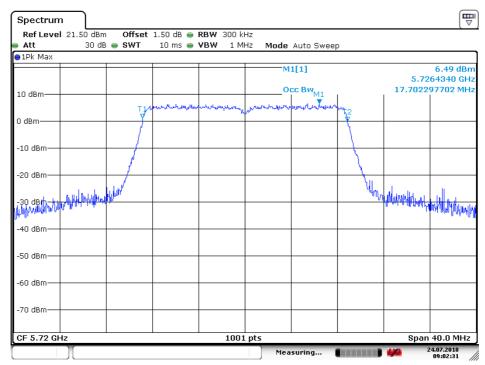
Report No.: SZEM180700624404

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5.4.2.34 11AC20_144 ANT 1



Date: 24 JUL.2018 08:02:54



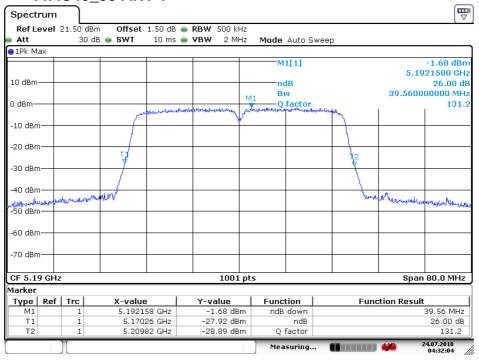
Date: 24 JUL.2018 09:02:32



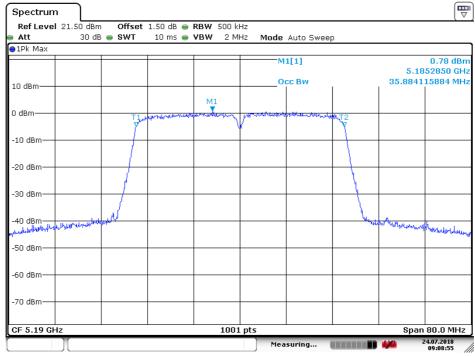
Report No.: SZEM180700624404

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5.4.2.35 11AC40_38 ANT 1



Date: 24 JUL.2018 04:32:05



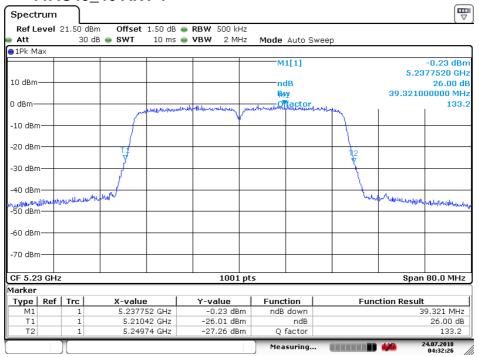
Date: 24 JUL.2018 09:08:55



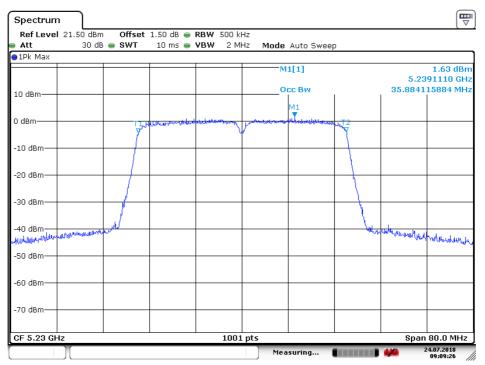
Report No.: SZEM180700624404

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5.4.2.36 11AC40 46 ANT 1



Date: 24 JUL.2018 04:32:27



Date: 24 JUL.2018 09:09:27



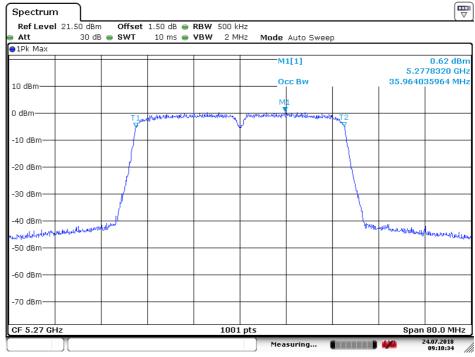
Report No.: SZEM180700624404

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5.4.2.37 11AC40_54 ANT 1



Date: 24 JUL.2018 04:32:49



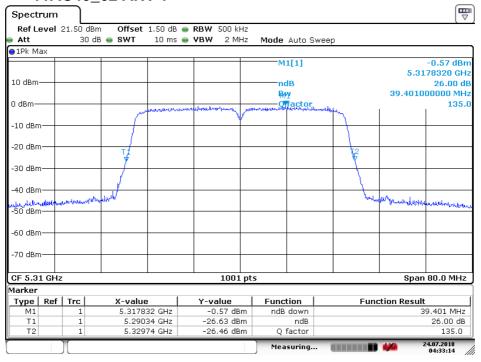
Date: 24 JUL.2018 09:10:34



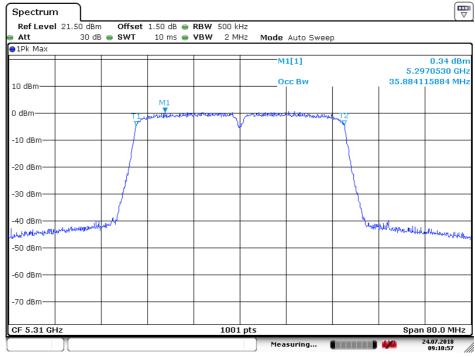
Report No.: SZEM180700624404

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5.4.2.38 11AC40_62 ANT 1



Date: 24 JUL.2018 04:33:14



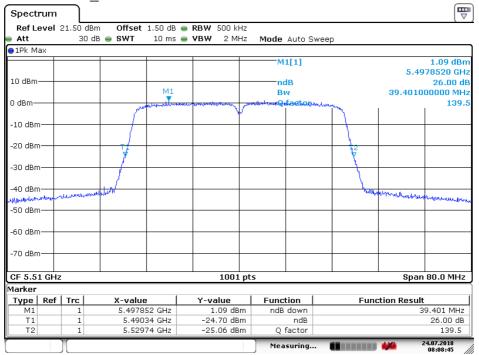
Date: 24 JUL.2018 09:10:58



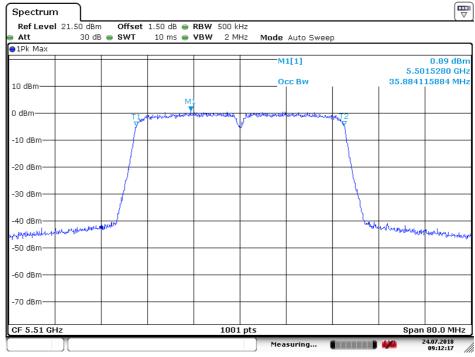
Report No.: SZEM180700624404

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5.4.2.39 11AC40_102 ANT 1



Date: 24 JUL.2018 08:08:45



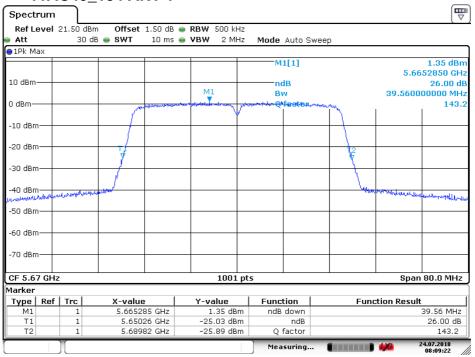
Date: 24 JUL.2018 09:12:17



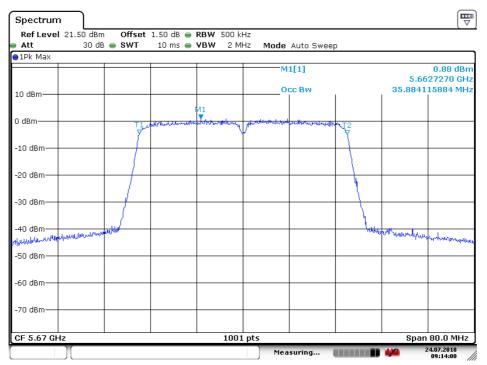
Report No.: SZEM180700624404

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5.4.2.40 11AC40_134 ANT 1



Date: 24 JUL.2018 08:09:23



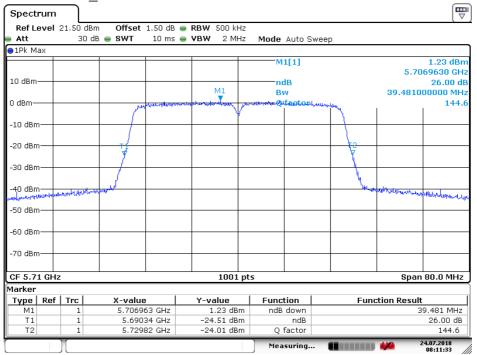
Date: 24 JUL.2018 09:14:00



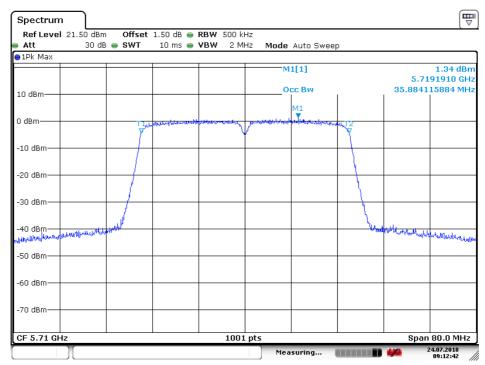
Report No.: SZEM180700624404

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5.4.2.41 11AC40_142 ANT 1



Date: 24 JUL.2018 08:11:33



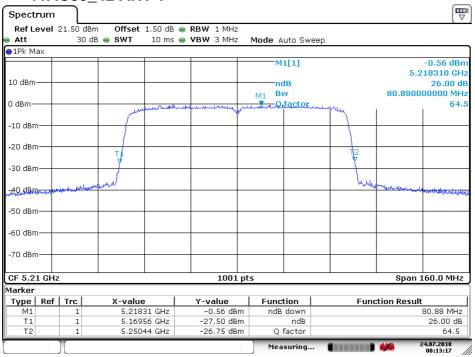
Date: 24 JUL.2018 09:12:43



Report No.: SZEM180700624404

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5.4.2.42 11AC80 42 ANT 1



Date: 24 JUL.2018 08:13:17



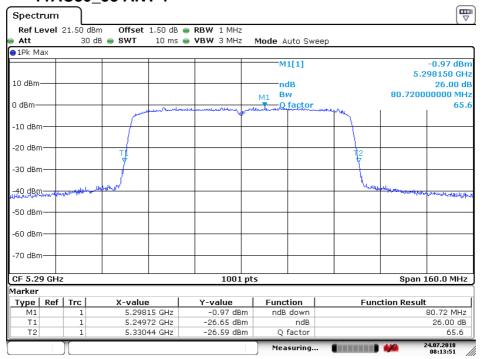
Date: 24 JUL.2018 09:16:45



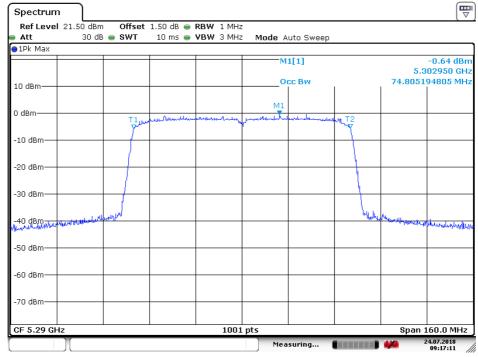
Report No.: SZEM180700624404

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5.4.2.43 11AC80_58 ANT 1



Date: 24 JUL.2018 08:13:51



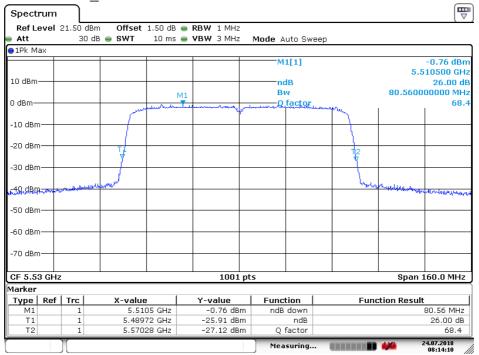
Date: 24 JUL.2018 09:17:11



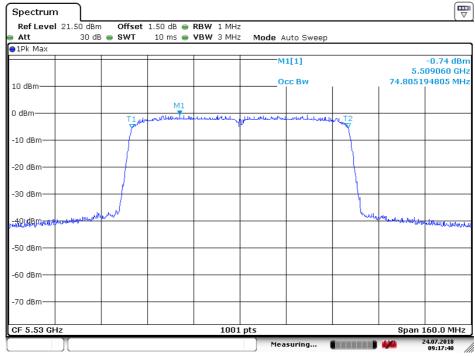
Report No.: SZEM180700624404

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5.4.2.44 11AC80_106 ANT 1



Date: 24 JUL.2018 08:14:10



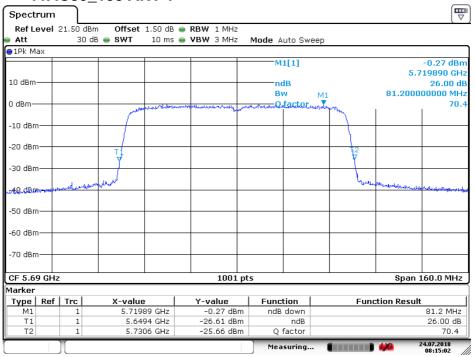
Date: 24 JUL.2018 09:17:40



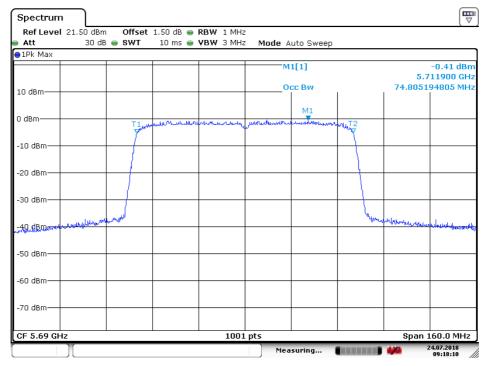
Report No.: SZEM180700624404

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5.4.2.45 11AC80_138 ANT 1



Date: 24 JUL.2018 08:15:02



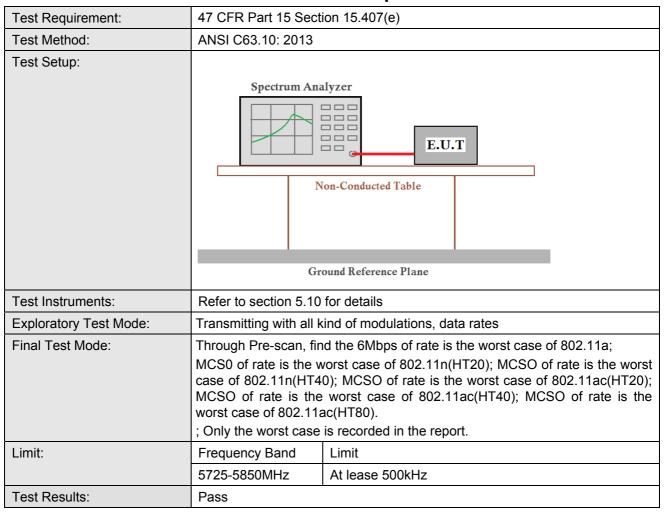
Date: 24 JUL.2018 09:18:10



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5.5 6dB Emission Bandwidth & 99% Occupied Bandwidth





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Test Mode	Test Channel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Occupied Bandwidth [MHz]	Verdict
11A20	149	5745	ANT 1	16.38	16.70	PASS
	157	5785	ANT 1	16.42	16.70	PASS
	165	5825	ANT 1	16.42	16.70	PASS
11N20	149	5745	ANT 1	17.62	17.70	PASS
	157	5785	ANT 1	17.46	17.70	PASS
	165	5825	ANT 1	17.46	17.74	PASS
11N40	151	5755	ANT 1	35.72	35.88	PASS
	159	5795	ANT 1	36.00	35.88	PASS
11AC20	149	5745	ANT 1	17.62	17.70	PASS
	157	5785	ANT 1	17.38	17.74	PASS
	165	5825	ANT 1	17.46	17.74	PASS
11AC40	151	5755	ANT 1	35.56	35.88	PASS
	159	5795	ANT 1	36.00	35.88	PASS
11AC80	155	5775	ANT 1	75.34	74.81	PASS

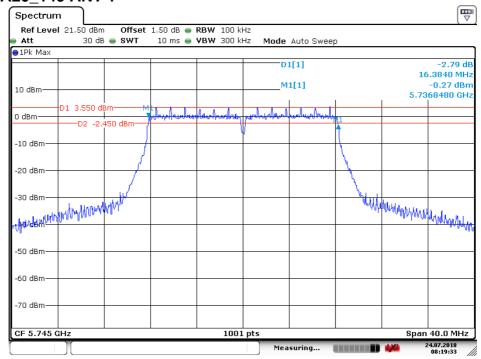


Report No.: SZEM180700624404

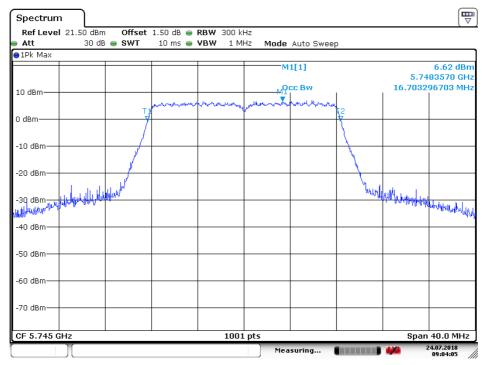
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5.5.1 Plots for 6dB Emission Bandwidth & 99% Occupied Bandwidth

5.5.1.1 11A20_149 ANT 1



Date: 24 JUL 2018 08:19:33



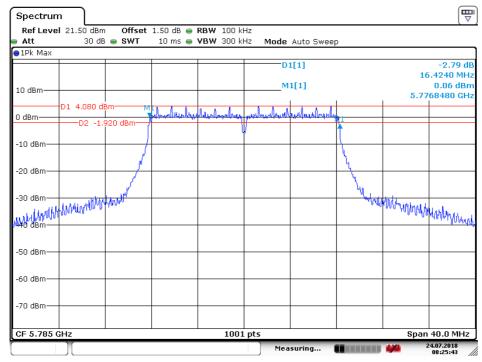
Date: 24 JUL.2018 09:04:05



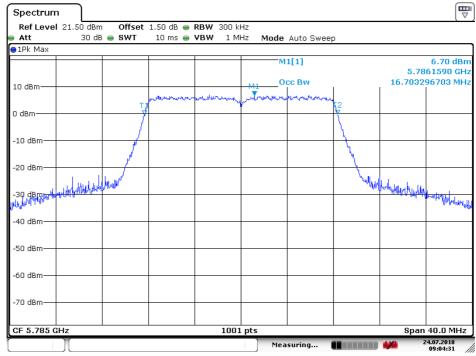
Report No.: SZEM180700624404

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5.5.1.2 11A20 157 ANT 1



Date: 24 JUL 2018 08:25:43



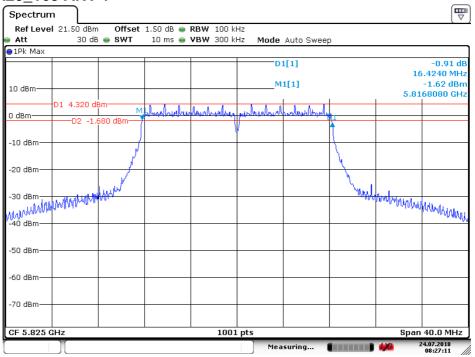
Date: 24 JUL.2018 09:04:31



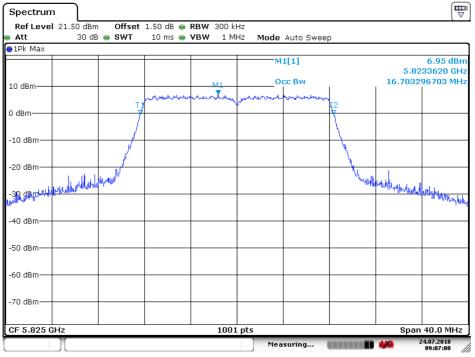
Report No.: SZEM180700624404

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5.5.1.3 11A20_165 ANT 1



Date: 24 JUL.2018 08:27:11



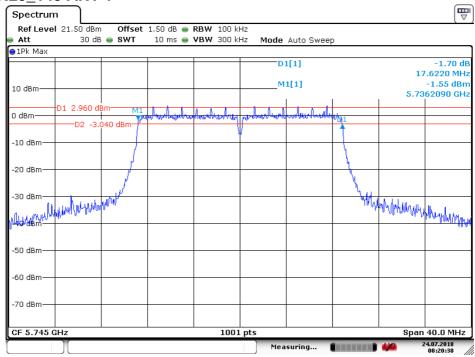
Date: 24 JUL.2018 09:07:00



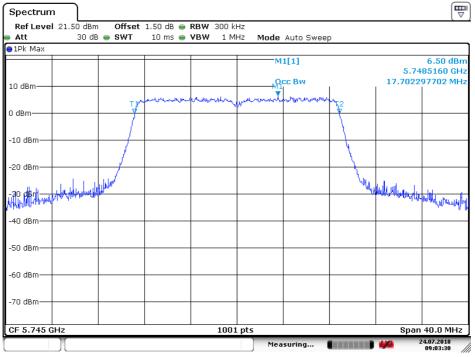
Report No.: SZEM180700624404

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5.5.1.4 11N20_149 ANT 1



Date: 24 JUL.2018 08:20:39



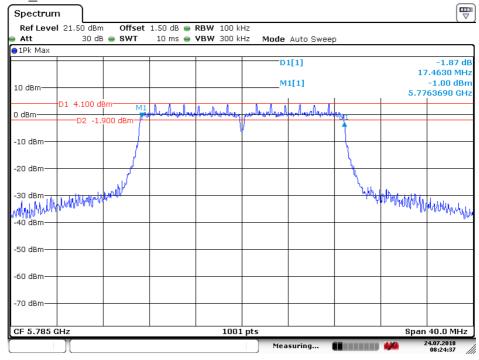
Date: 24 JUL.2018 09:03:30



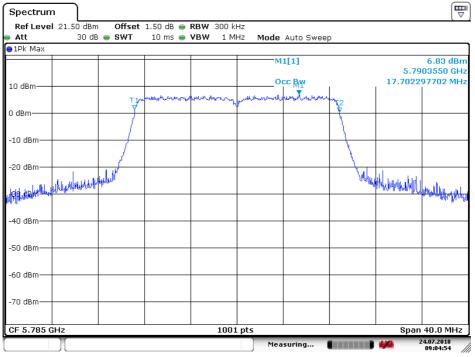
Report No.: SZEM180700624404

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5.5.1.5 11N20_157 ANT 1



Date: 24.JUL.2018 08:24:37



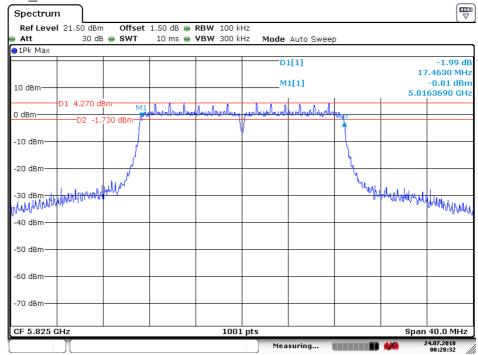
Date: 24 JUL.2018 09:04:54



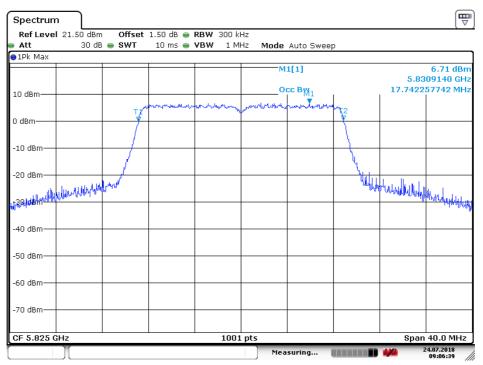
Report No.: SZEM180700624404

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5.5.1.6 11N20_165 ANT 1



Date: 24 JUL 2018 08:28:32



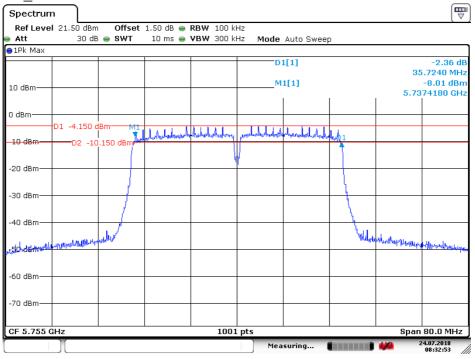
Date: 24 JUL.2018 09:06:39



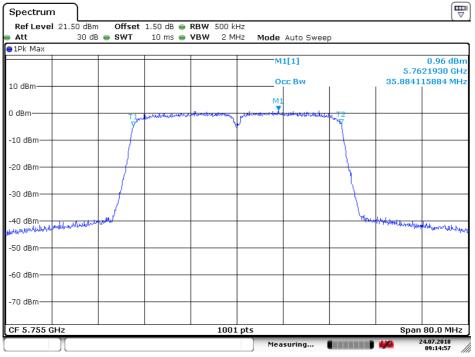
Report No.: SZEM180700624404

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5.5.1.7 11N40_151 ANT 1



Date: 24 JUL.2018 08:32:53



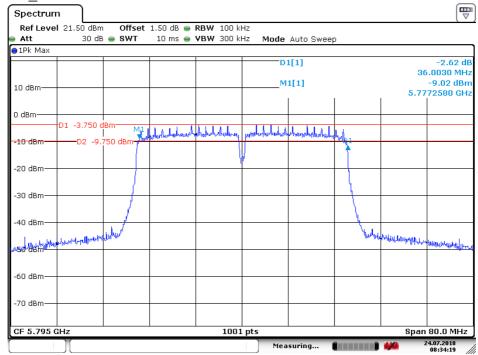
Date: 24 JUL.2018 09:14:57



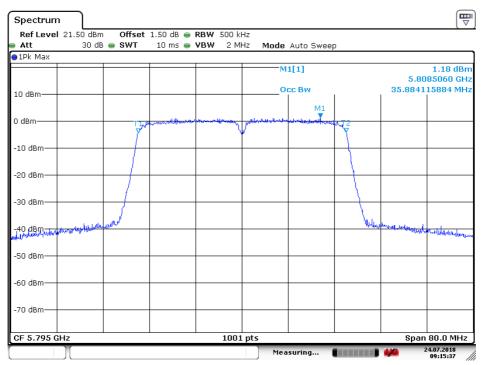
Report No.: SZEM180700624404

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5.5.1.8 11N40_159 ANT 1



Date: 24 JUL.2018 08:34:19



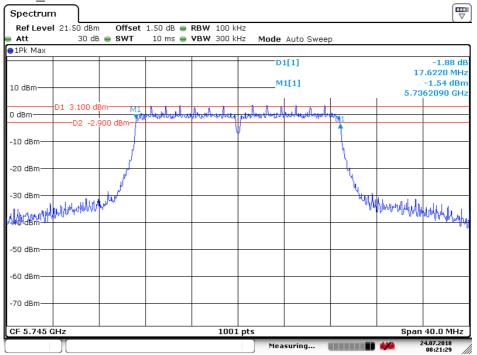
Date: 24 JUL.2018 09:15:37



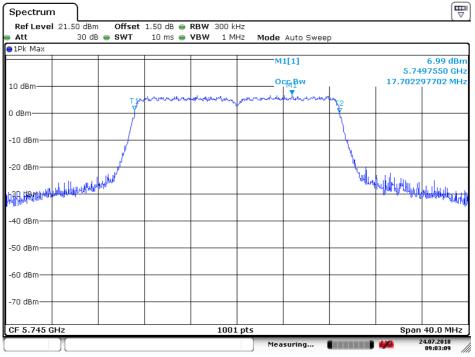
Report No.: SZEM180700624404

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5.5.1.9 11AC20_149 ANT 1



Date: 24 JUL 2018 08:21:29



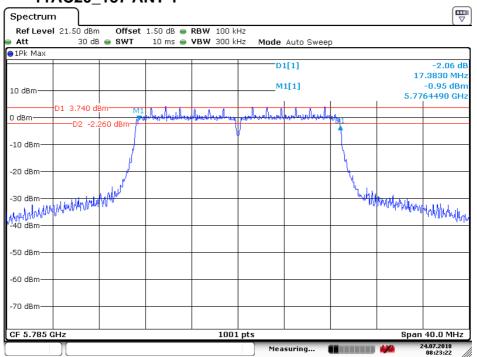
Date: 24 JUL 2018 09:03:09



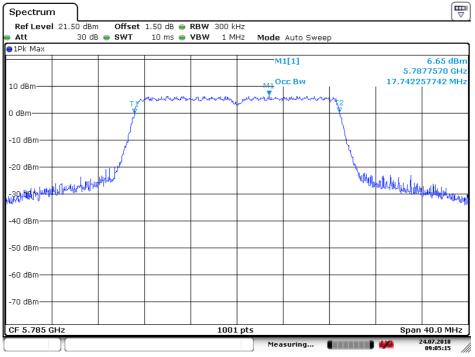
Report No.: SZEM180700624404

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5.5.1.10 11AC20_157 ANT 1



Date: 24 JUL 2018 08:23:22



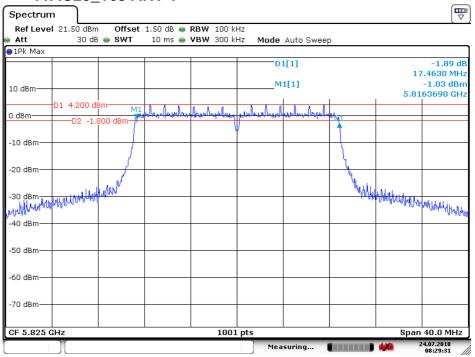
Date: 24 JUL 2018 09:05:15



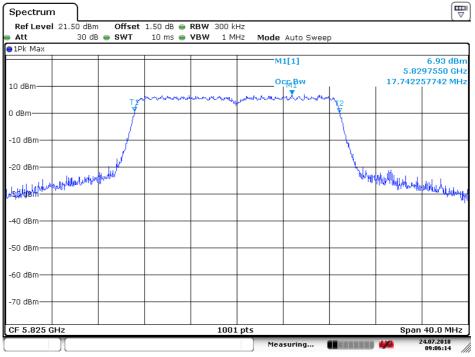
Report No.: SZEM180700624404

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5.5.1.11 11AC20_165 ANT 1



Date: 24 JUL.2018 08:29:31



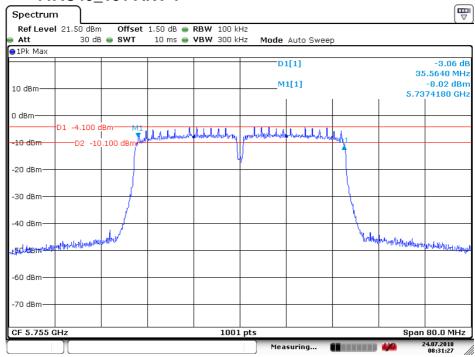
Date: 24.JUL.2018 09:06:15



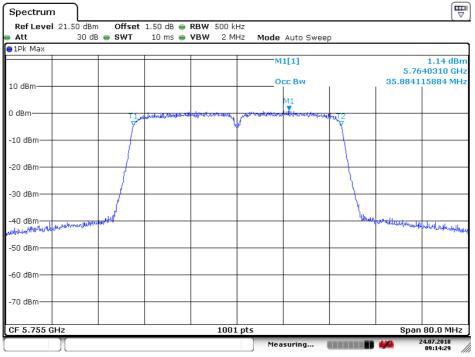
Report No.: SZEM180700624404

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5.5.1.12 11AC40_151 ANT 1



Date: 24 JUL.2018 08:31:27



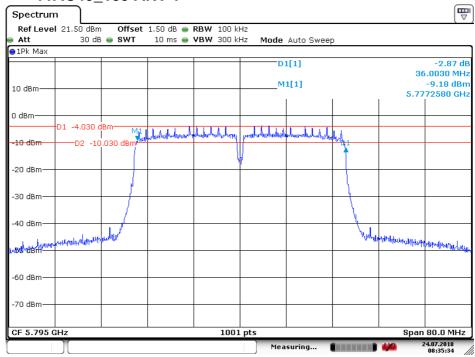
Date: 24 JUL.2018 09:14:30



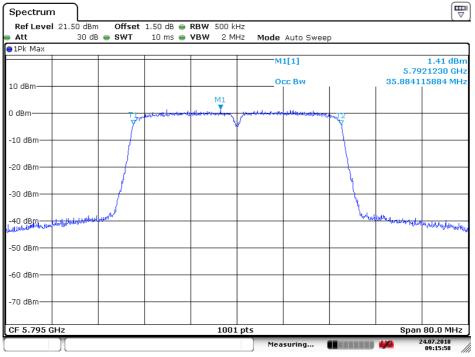
Report No.: SZEM180700624404

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5.5.1.13 11AC40_159 ANT 1



Date: 24 JUL 2018 08:35:34



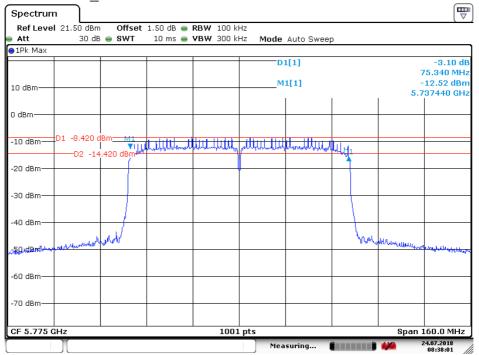
Date: 24 JUL.2018 09:15:58



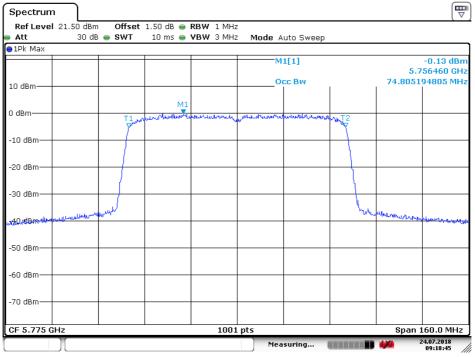
Report No.: SZEM180700624404

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5.5.1.14 11AC80_155 ANT 1



Date: 24 JUL.2018 08:38:01



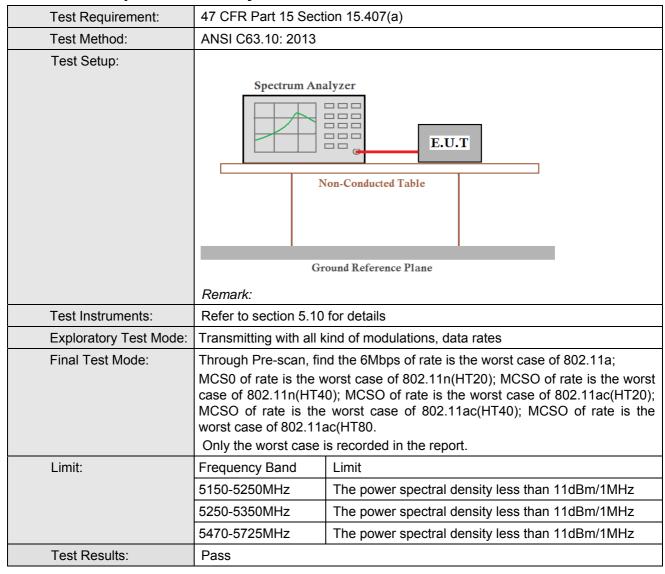
Date: 24 JUL.2018 09:18:46



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5.6 Power Spectral Density





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Measurement Data:

Measurement Data: Total Models Total Channel Frequency Meas. Level Variable						
Test Mode	Test Channel	[MHz]	(Cond.) [dBm/MHz]	Verdict		
11A20	36	5180	4.51	PASS		
	40	5200	4.62	PASS		
	48	5240	5.15	PASS		
	52	5260	4.34	PASS		
	56	5280	4.91	PASS		
	64	5320	5.14	PASS		
	100	5500	3.86	PASS		
	120	5600	3.60	PASS		
	144	5720	4.28	PASS		
	149	5745	1.73	PASS		
	157	5785	3.05	PASS		
	165	5825	2.80	PASS		
	36	5180	3.46	PASS		
	40	5200	4.46	PASS		
	48	5240	5.00	PASS		
	52	5260	4.18	PASS		
	56	5280	4.30	PASS		
11N20	64	5320	4.45	PASS		
111120	100	5500	3.27	PASS		
	120	5600	3.40	PASS		
	144	5720	3.88	PASS		
	149	5745	2.24	PASS		
	157	5785	2.61	PASS		
	165	5825	2.83	PASS		
11N40	38	5190	-4.09	PASS		
	46	5230	-4.39	PASS		
	54	5270	-4.46	PASS		
	62	5310	-4.35	PASS		
	102	5510	-5.97	PASS		
	142	5710	-5.35	PASS		



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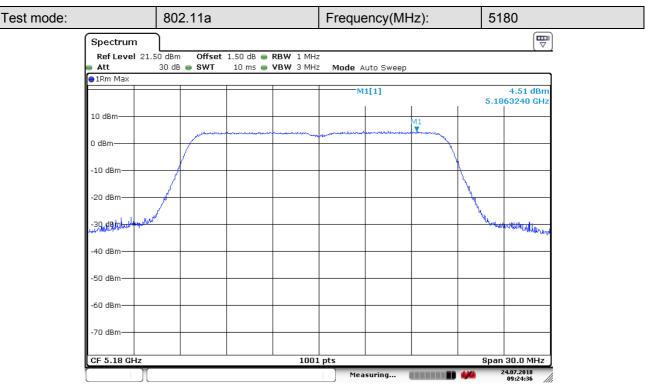
	134	5670	-5.89	PASS
	151	5755	-6.27	PASS
	159	5795	-5.70	PASS
	36	5180	3.75	PASS
	40	5200	4.37	PASS
	48	5240	4.89	PASS
	52	5260	3.89	PASS
	56	5280	4.37	PASS
11AC20	64	5320	4.77	PASS
TIACZU	100	5500	3.16	PASS
	120	5600	3.26	PASS
	144	5720	4.00	PASS
	149	5745	2.48	PASS
	157	5785	2.71	PASS
	165	5825	2.85	PASS
	38	5190	-5.38	PASS
11AC40	46	5230	-4.59	PASS
	54	5270	-4.57	PASS
	62	5310	-4.42	PASS
	102	5510	-6.24	PASS
	142	5710	-5.29	PASS
	134	5670	-5.98	PASS
	151	5755	-6.27	PASS
	159	5795	-5.81	PASS
11AC80	42	5210	-7.89	PASS
	58	5290	-7.88	PASS
	106	5530	-8.33	PASS
	138	5690	-8.09	PASS
	155	5775	-9.15	PASS



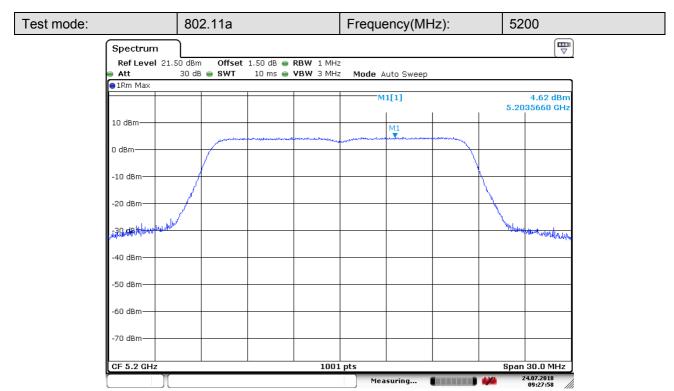
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Test plot as follows:



Date: 24 JUL 2018 09:24:37

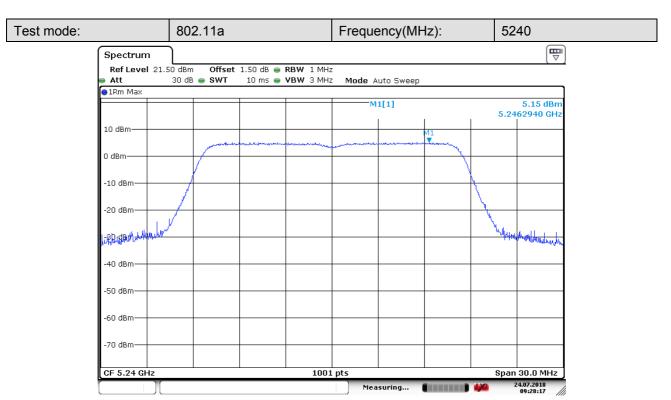


Date: 24 JUL.2018 09:27:59

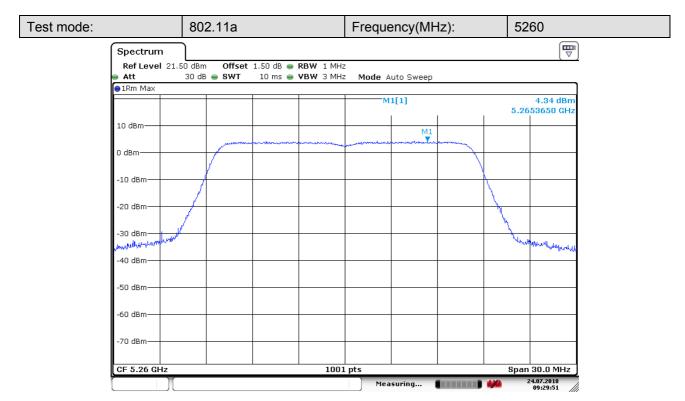


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Date: 24 JUL.2018 09:28:18

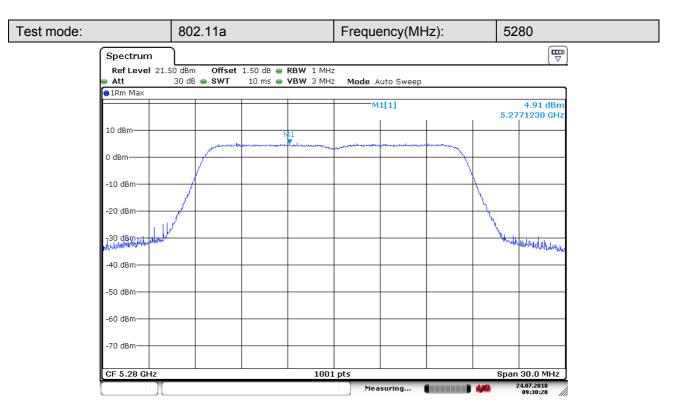


Date: 24 JUL.2018 09:29:51

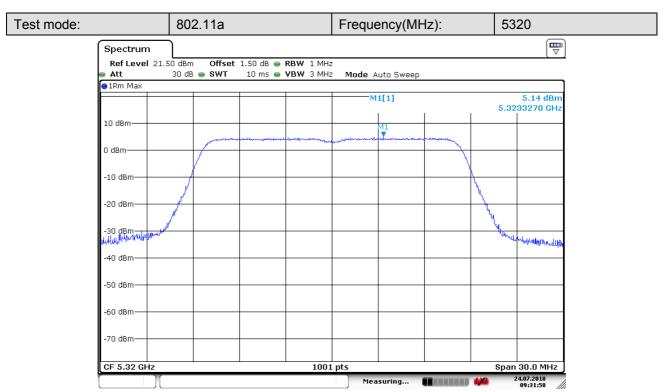


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Date: 24 JUL 2018 09:30:21

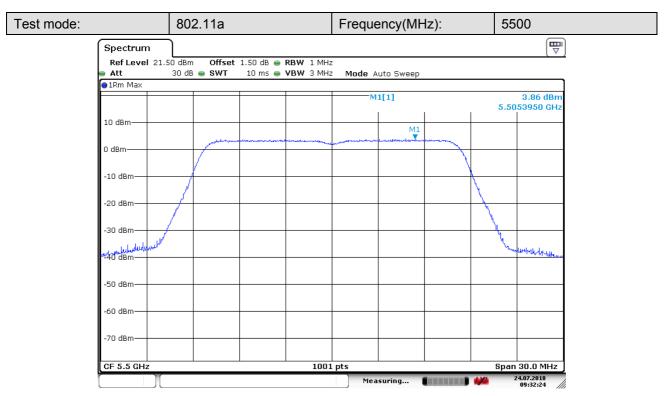


Date: 24 JUL.2018 09:31:58

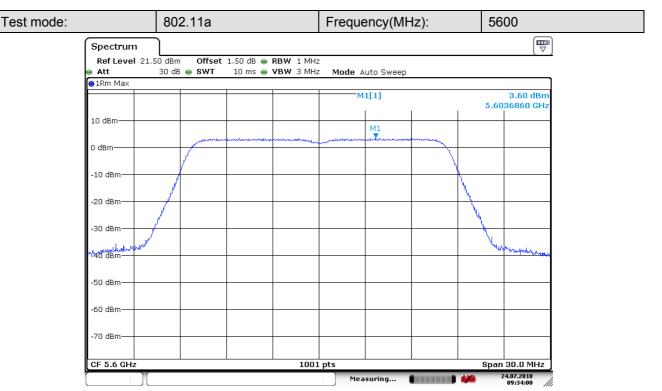


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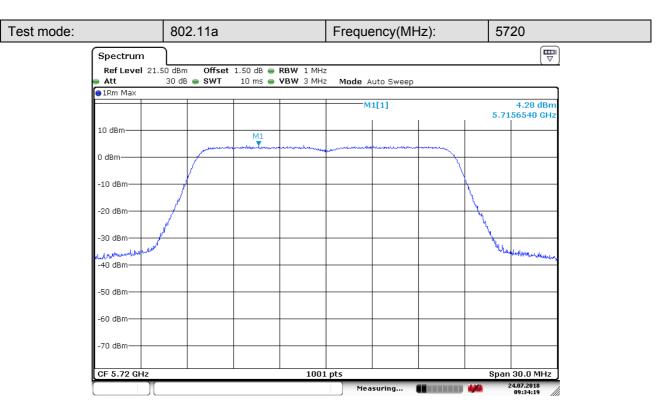


Date: 24.JUL.2018 09:34:00

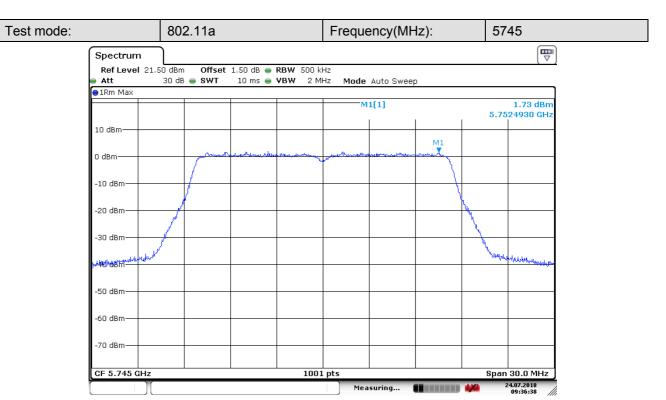


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Date: 24 JUL 2018 09:34:20

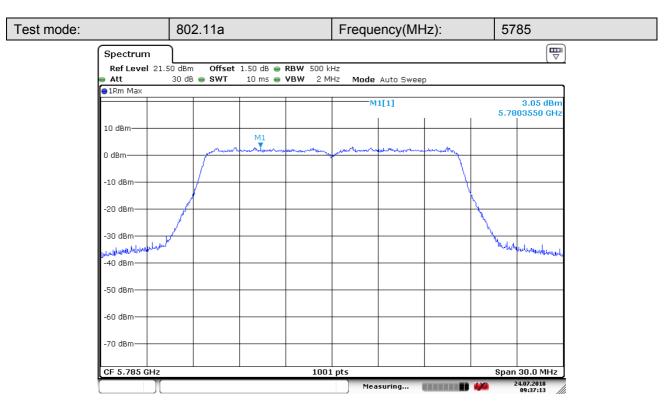


Date: 24.JUL.2018 09:36:39

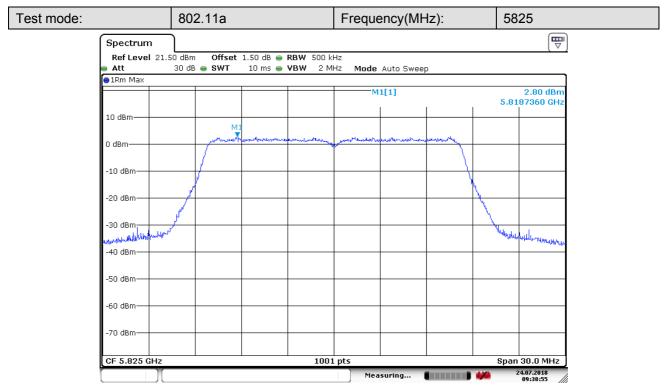


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Date: 24 JUL.2018 09:37:14

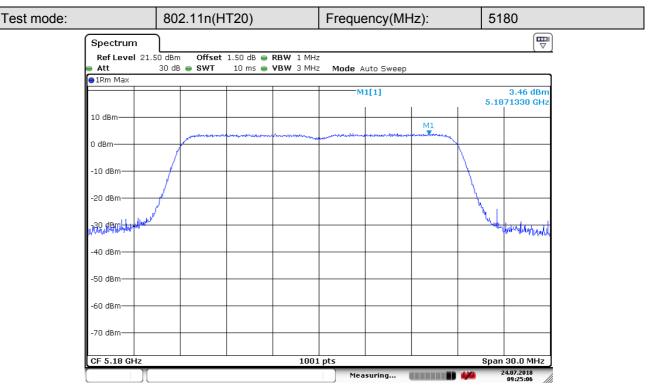


Date: 24 JUL.2018 09:38:55

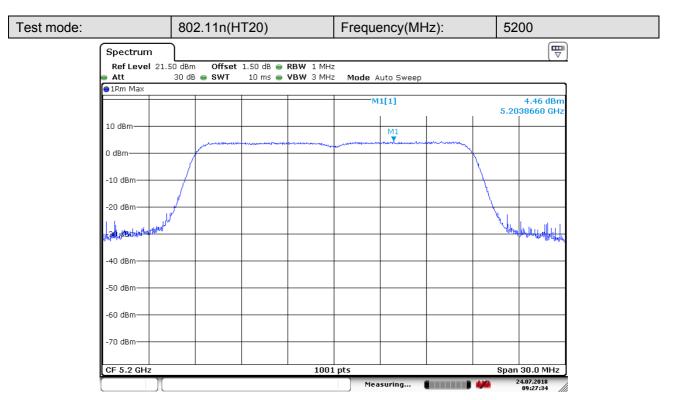


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Date: 24 JUL 2018 09:25:06

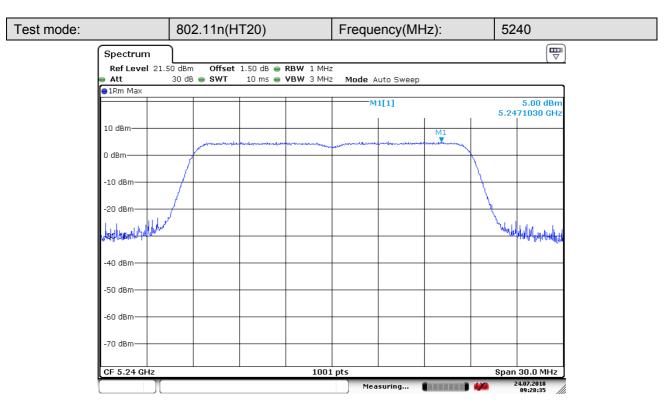


Date: 24 JUL.2018 09:27:34

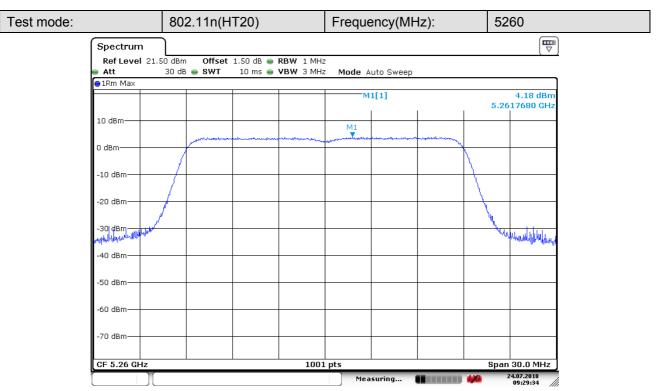


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Date: 24 JUL.2018 09:28:35

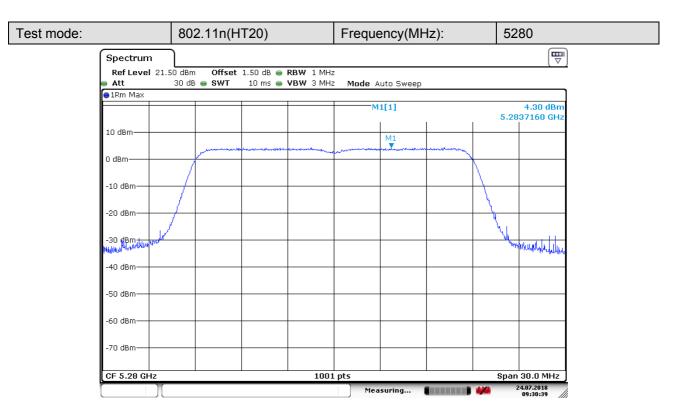


Date: 24 JUL.2018 09:29:35

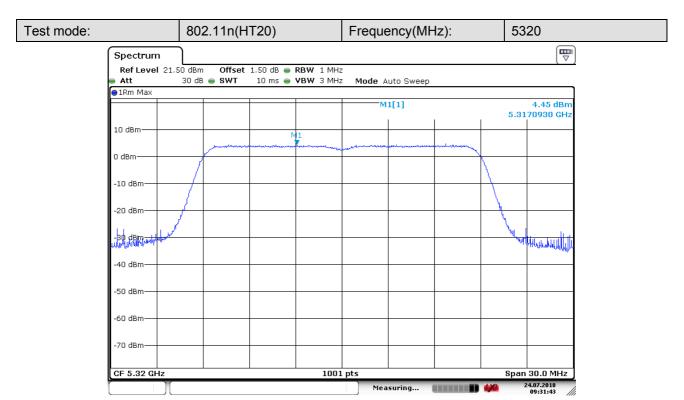


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Date: 24 JUL.2018 09:30:39

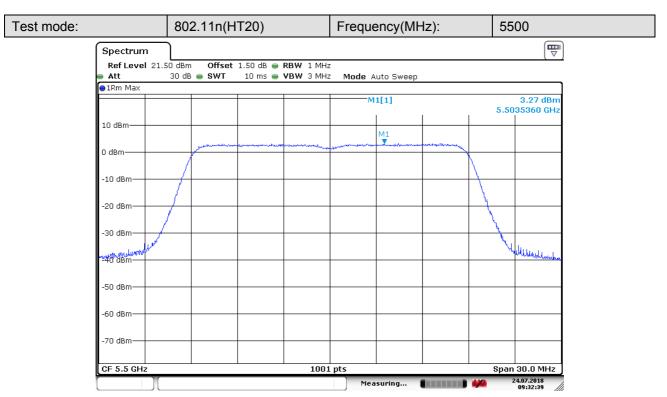


Date: 24.JUL.2018 09:31:43

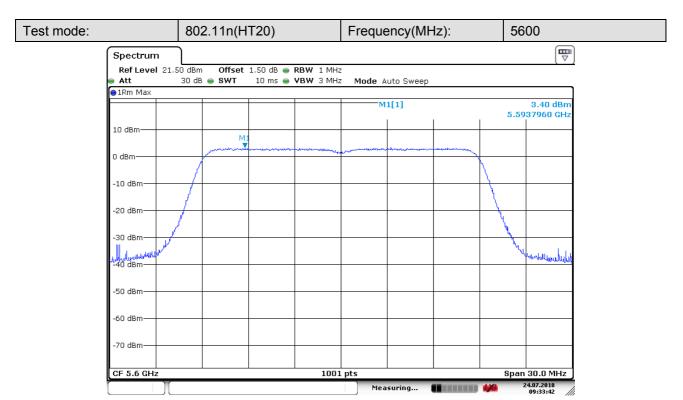


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Date: 24 JUL.2018 09:32:39

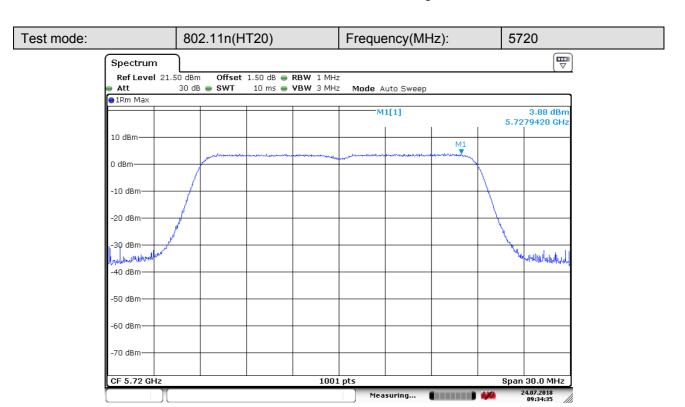


Date: 24 JUL.2018 09:33:42

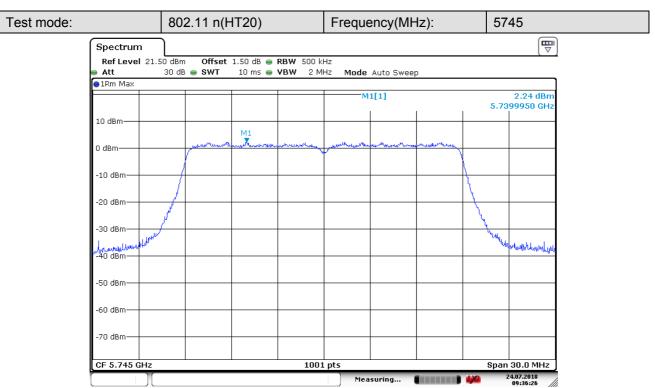


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Date: 24.JUL.2018 09:34:35

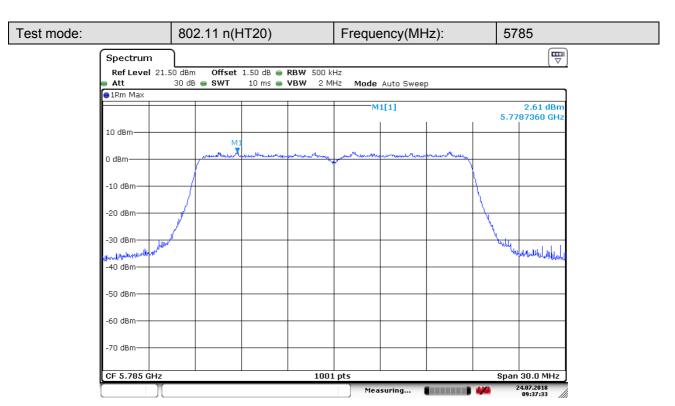


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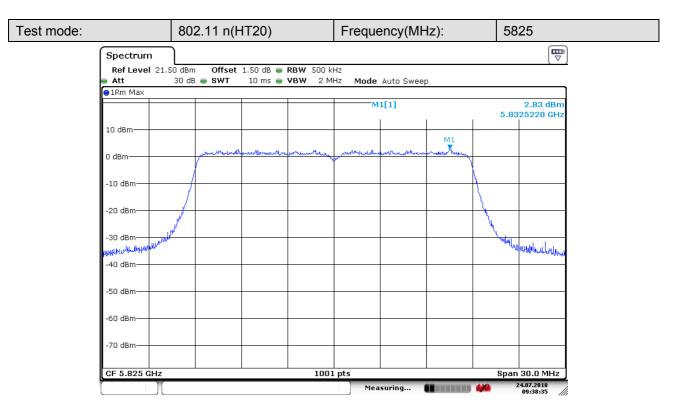


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Date: 24 JUL.2018 09:37:33

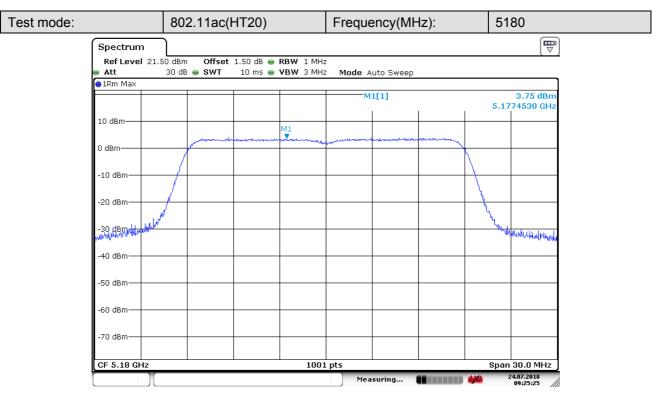


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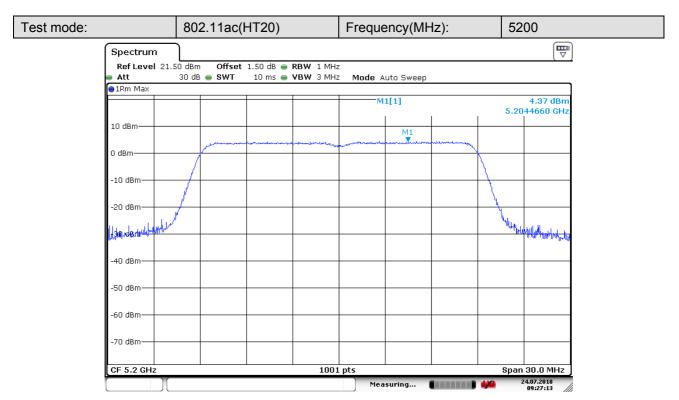


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Date: 24 JUL 2018 09:25:25

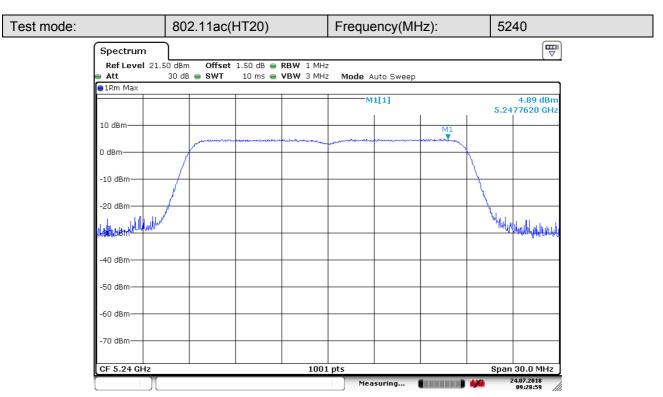


Date: 24 JUL.2018 09:27:14

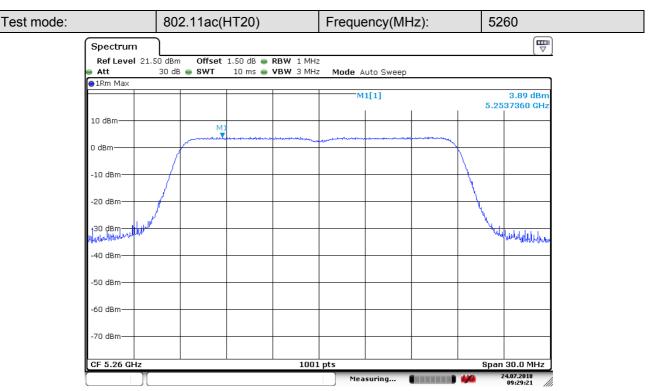


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Date: 24 JUL 2018 09:29:00

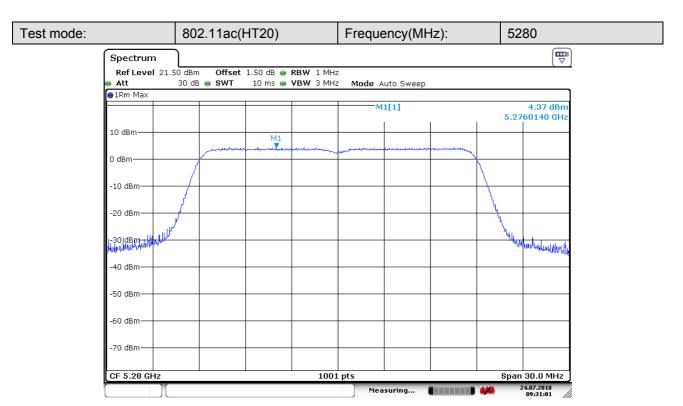


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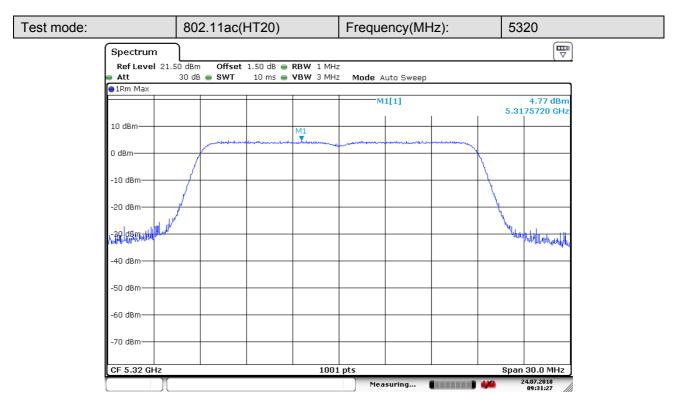


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Date: 24 JUL.2018 09:31:01

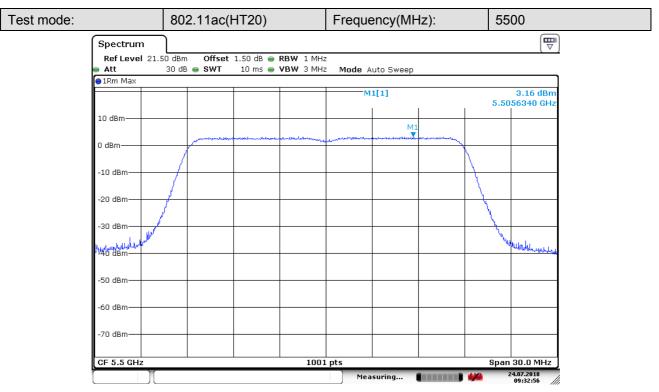


Date: 24 JUL.2018 09:31:27

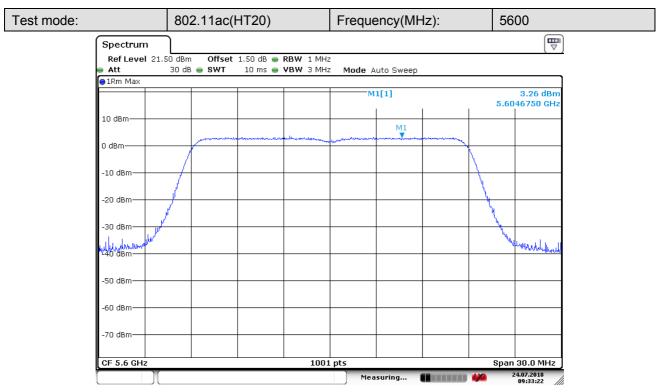


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Date: 24 JUL.2018 09:32:56

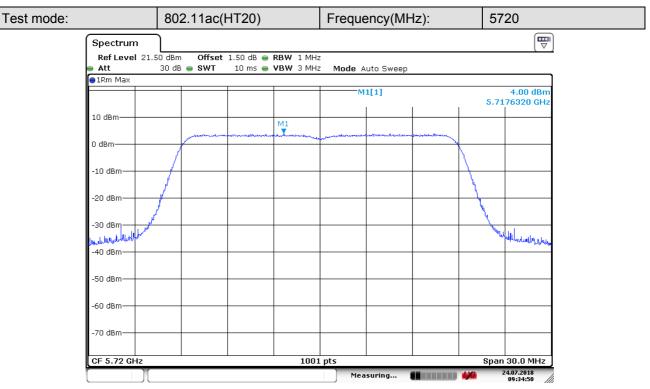


Date: 24 JUL.2018 09:33:22

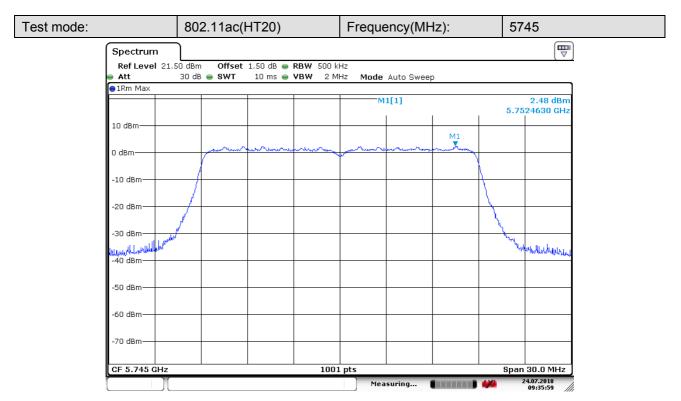


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Date: 24 JUL 2018 09:34:50

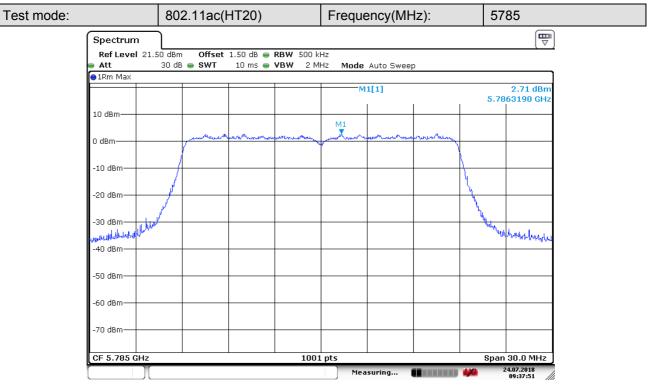


Date: 24 JUL 2018 09:35:59

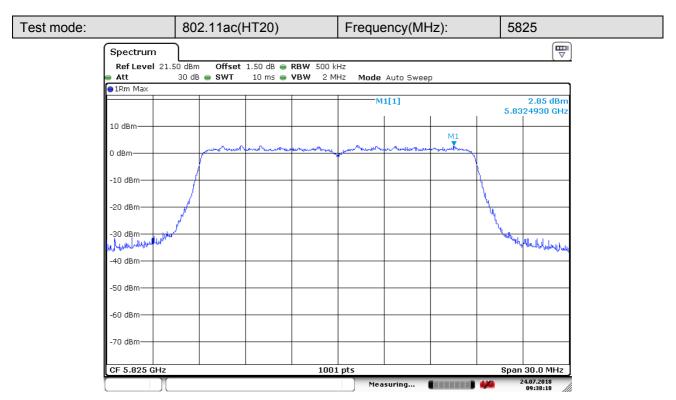


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Date: 24 JUL 2018 09:37:52

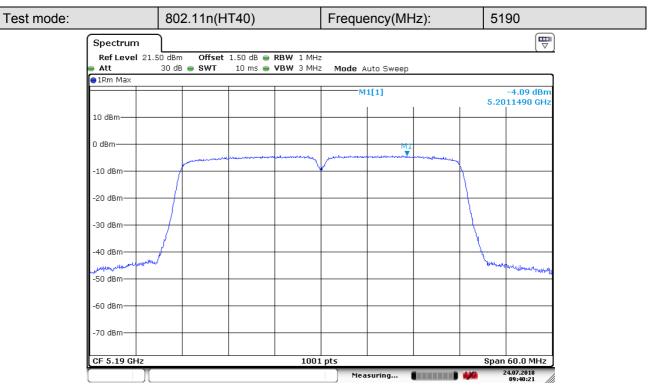


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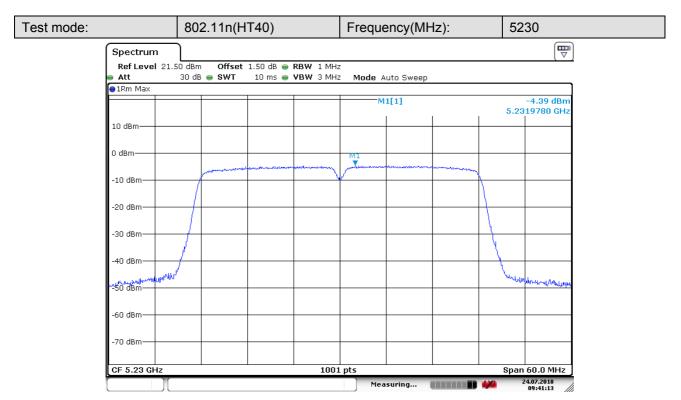


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Date: 24 JUL 2018 09:40:22

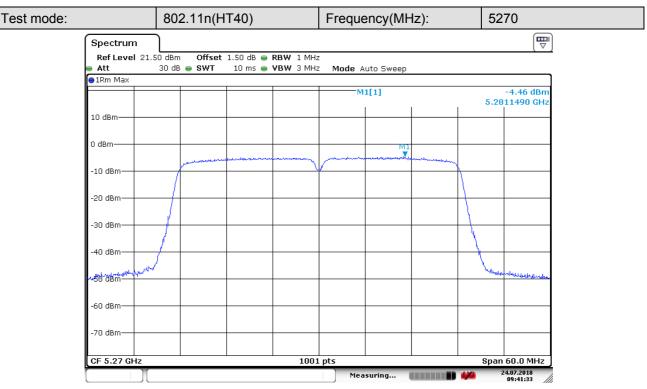


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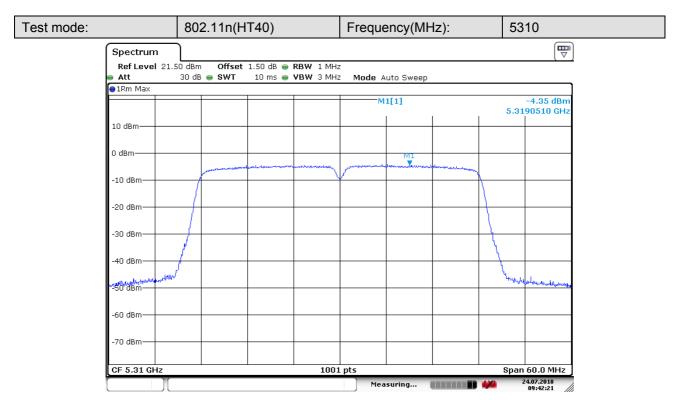


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Date: 24 JUL 2018 09:41:34

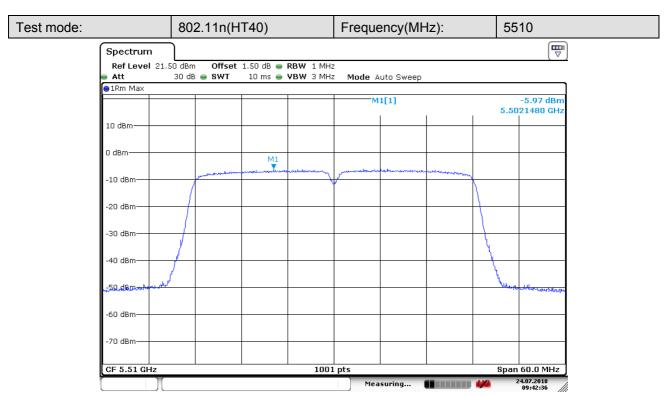


Date: 24 JUL.2018 09:42:21

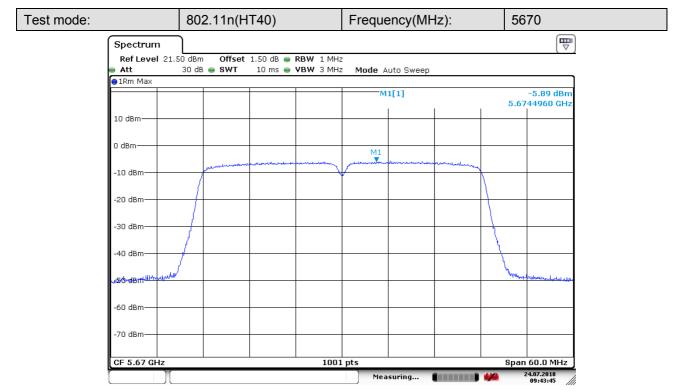


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Date: 24 JUL.2018 09:42:37

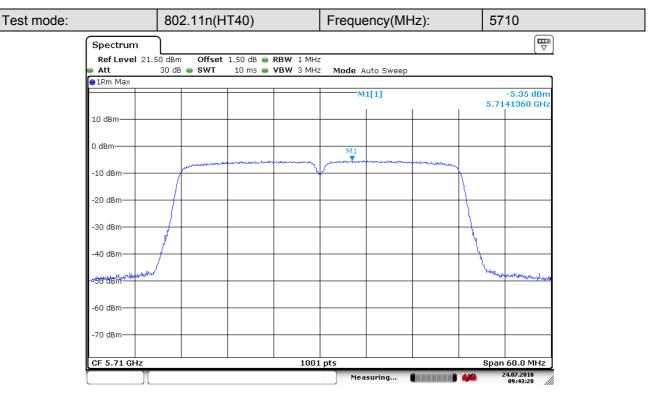


Date: 24 JUL 2018 09:43:45



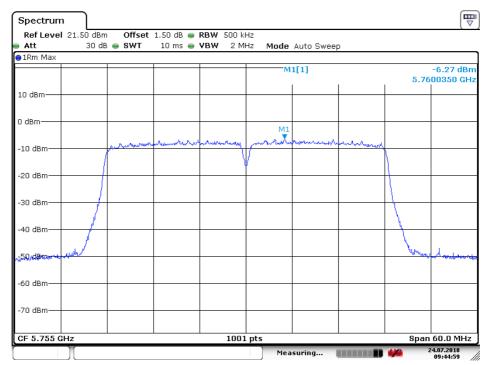
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Date: 24 JUL.2018 09:43:28



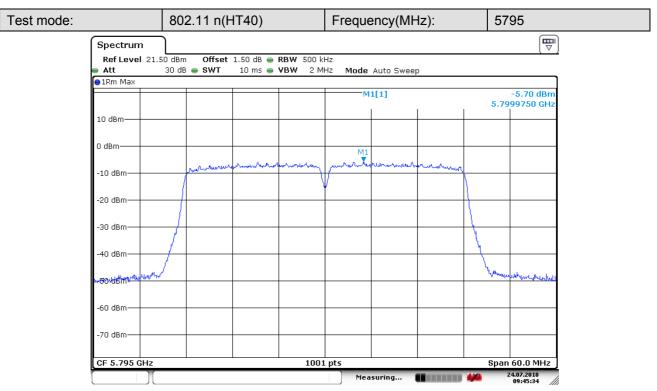


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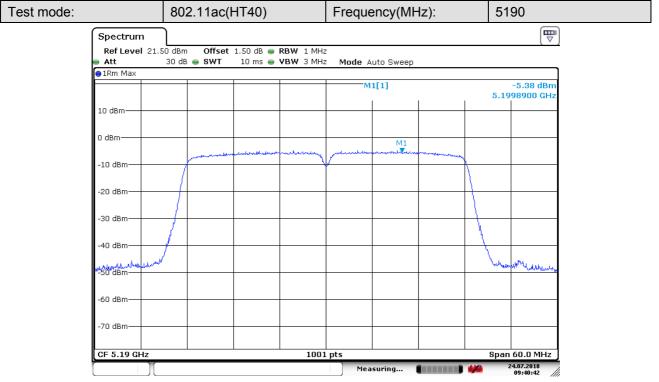


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