



LCIE

Bluetooth Classic Template: Release October 03rd, 2016

TEST REPORT

N°: 146019-698067B

Version : 01

Subject

Radio spectrum matters
tests according to standards:
47 CFR Part 15.247 [P](#)

Issued to

SAGEMCOM BROADBAND SAS
250 Route de l' Empereur
92500 - RUEIL MALMAISON
FRANCE

Apparatus under test

- [P](#) Product
- [P](#) Trade mark
- [P](#) Manufacturer
- [P](#) Model under test
- [P](#) Serial number
- [P](#) FCC ID

DCIWA384 UHD AIt US
SAGEMCOM
SAGEMCOM
MiniBox (253697290)
616476080862
VW3DCIWA384

Test date

: December 5, 2016 to January 5, 2017

Test location

Fontenay Aux Roses & Ecuelles

Composition of document

84 pages

Document issued on

February 13, 2017

Written by :
Mathieu CERISIER
Tests operator



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1. TEST PROGRAM

References

- 47 CFR Part 15.247
- ANSI C63.10-2013
- FCC DA 00-705

Radio requirement:

Clause (47CFR Part 15.247) Test Description	Test result - Comments			
Occupied Bandwidth P	☒ PASS	☐ FAIL	☐ NA	☐ NP(1)
20dB Bandwidth P	☒ PASS	☐ FAIL	☐ NA	☐ NP(1)
Number of Hopping Frequency P	☒ PASS	☐ FAIL	☐ NA	☐ NP(1)
Carrier Frequency Separation P	☒ PASS	☐ FAIL	☐ NA	☐ NP(1)
Time of Occupancy P	☒ PASS	☐ FAIL	☐ NA	☐ NP(1)
Duty Cycle P	☒ PASS	☐ FAIL	☐ NA	☐ NP(1)
Maximum Conducted Output Power P	☒ PASS	☐ FAIL	☐ NA	☐ NP(1)
Conducted Spurious Emission at the Band Edge P	☒ PASS	☐ FAIL	☐ NA	☐ NP(1)
Unwanted Emissions into Non-Restricted Frequency Bands P	☒ PASS	☐ FAIL	☐ NA()	☐ NP(1)
AC Power Line Conducted Emission P	☒ PASS	☐ FAIL	☐ NA(2)	☐ NP(1)
Unwanted Emissions into Restricted Frequency Bands P	☒ PASS	☐ FAIL	☐ NA	☐ NP(1)
Receiver Radiated emissions P	☒ PASS	☐ FAIL	☐ NA	☐ NP(1)
This table is a summary of test report, see conclusion of each clause of this test report for detail.				

(1): Limited program

(2): EUT not directly or indirectly connected to the AC Power Public Network

PASS: EUT complies with standard's requirement

FAIL: EUT does not comply with standard's requirement

NA: Not Applicable

NP: Test Not Performed

2. EQUIPMENT UNDER TEST: CONFIGURATION (DECLARED BY PROVIDER)

2.1. HARDWARE IDENTIFICATION (EUT AND AUXILIARIES):

Equipment under test (EUT):
DCIWA384 UHD Alt US

Serial Number: 253697290-A01



Equipment Under Test



Equipment Under Test

Inputs/outputs - Cable:

Access	Type	Length used (m)	Declared <3m	Shielded	Under test	Comments
1	Power supply	1	☒	☐	☒	-
2	Ethernet	2.5	☒	☒	☐	-

Auxiliary equipment used during test:

Type	Reference	Sn	Comments
Laptop	-	-	Use to set the EUT
CBT Bluetooth Tester	A4120005	-	-
Horn antenna	C2042051	-	-
Power supply°1	MSA-Z3800IC12.0-48W-P	191360131-XX	-
Power supply°2	NBS42C120380M2	191357366-XX	-
Power supply°3	LPL-C64612038026	191359307-XX	-

Equipment information:

Bluetooth Classic Type:	☐ v1.2	☐ v2.0	☐ v2.1+EDR	☐ v3.0+HS
	☐ v4.0	☒ v4.1		☐ v4.2
Frequency band:	[2400 – 2483.5] MHz			
Spectrum Modulation:	☒ FHSS			
Number of Channel:	Maximum:	79	Minimum:	20
Spacing channel:	1MHz			
Channel bandwidth:	1MHz			
Antenna Type:	☒ Integral	☐ External	☐ Dedicated	
Antenna connector:	☒ Yes	☐ No	☐ Temporary for test	
Transmit chains:	1			
	Single antenna			
Beam forming gain:	No			
Receiver chains:	1			
Type of equipment:	☒ Stand-alone	☐ Plug-in	☐ Combined	
Ad-Hoc mode:	☐ Yes		☒ No	
Dwell time:	400ms			
Duty cycle:	☒ Continuous duty	☐ Intermittent duty	☐ 100% duty	
Equipment type:	☒ Production model		☐ Pre-production model	
Operating temperature range:	Tmin:	☐ -20°C	☒ 0°C	☐ X°C
	Tnom:	20°C		
	Tmax:	☐ 35°C	☐ 55°C	☒ 45°C
Type of power source:	☒ AC power supply	☐ DC power supply	☐ Battery	
Operating voltage range:	Vnom:	☒ 120V/60Hz	☐ X Vdc	

Antenna Characteristic

Antenna assembly	Gain (dBi)	Frequency Band (MHz)	Impedance(Ω)
1	3.1	2400-2483.5	50

CHANNEL PLAN

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Cmin: 0	2402	27	2429	54	2456
1	2403	28	2430	55	2457
2	2404	29	2431	56	2458
3	2405	30	2432	57	2459
4	2406	31	2433	58	2460
5	2407	32	2434	59	2461
6	2408	33	2435	60	2462
7	2409	34	2436	61	2463
8	2410	35	2437	62	2464
9	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	Cmax: 78	2480
25	2427	52	2454		
26	2428	53	2455		

DATA RATE

Available for EUT	Modulation type	Max. Data Rate (Mbps)	Packet type	Worst Case Modulation
☒	GFSK	1	1-DM1	☐
	GFSK	1	1-DH1	☐
	GFSK	1	1-DM3	☐
	GFSK	1	1-DH3	☐
	GFSK	1	1-DM5	☐
	GFSK	1	1-DH5	☒
☒	GFSK	1	AUX1	☐
☒	$\pi/4$ DQPSK	2	2-DH1	☐
	$\pi/4$ DQPSK	2	2-DH3	☐
	$\pi/4$ DQPSK	2	2-DH5	☒
	8DPSK	3	3-DH1	☐
	8DPSK	3	3-DH3	☐
	8DPSK	3	3-DH5	☒

2.2. RUNNING MODE

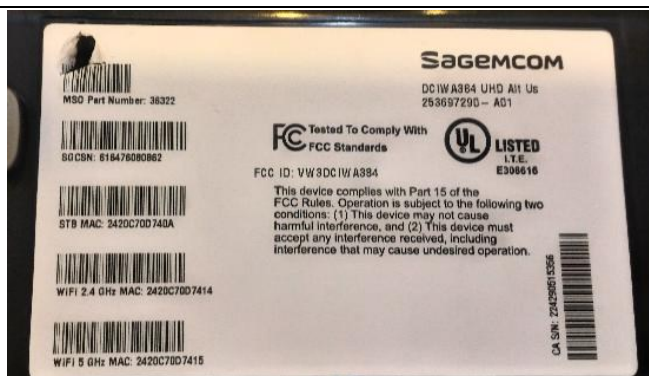
The EUT is set in the following modes during tests:

- Permanent emission with modulation on a fixed channel in the data rate that produced the highest power
- Permanent emission with modulation & hopping in the data rate that produced the highest power
- Permanent reception

Following commands with the specific test software "TERATERM" are used to set the product:

- See document "FCC part15 - Bluetooth compliance test commands of M384US-4L mainboard.pdf" for the command used during test.

2.3. EQUIPMENT LABELLING



Power supply n°1



Power supply n°2



Power supply n°3

2.4. EQUIPMENT MODIFICATION

- ☒ None ☐ Modification:

3. OCCUPIED BANDWIDTH

3.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER
Date of test : January 5, 2017
Ambient temperature : 23 °C
Relative humidity : 42 %

3.2. TEST SETUP

- The Equipment Under Test is installed:

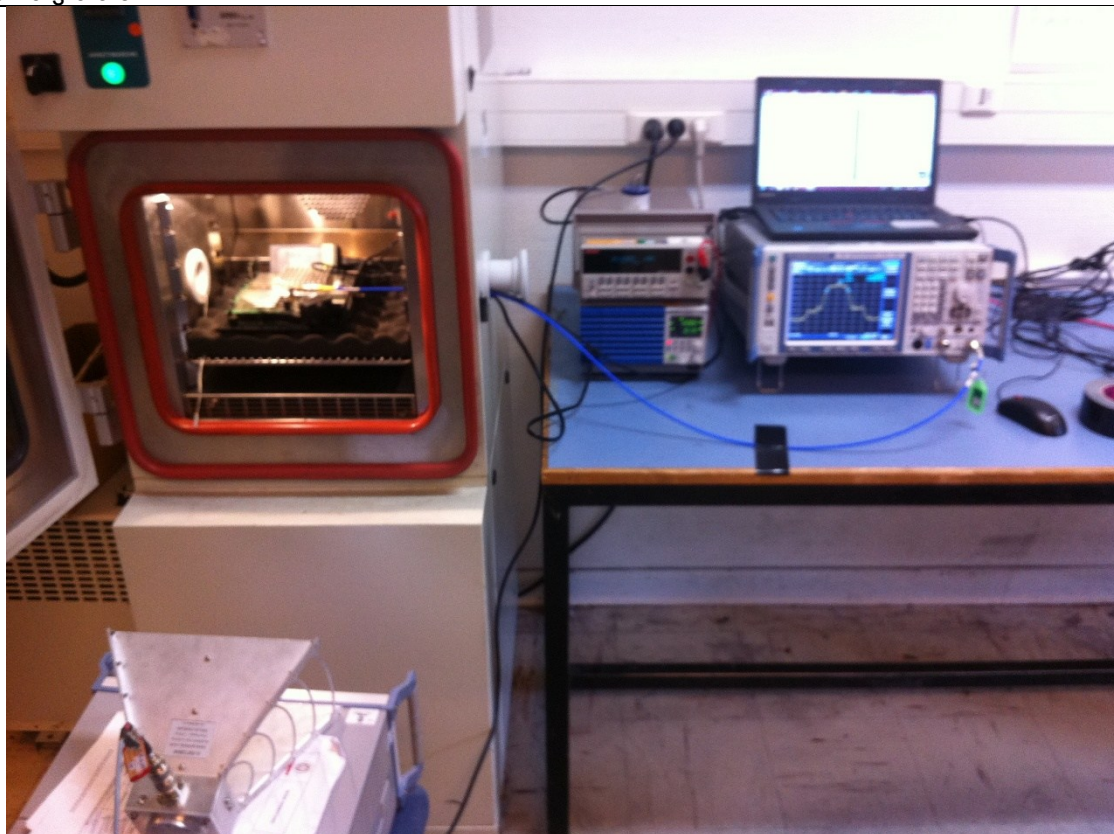
- ☐ On a table
- ☐ In an anechoic chamber
- ☒ In climatic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☐ RSS-Gen Issue 4 § 6.6
- ☒ ANSI C63.10 § 6.9.3



Photograph for Occupied bandwidth



3.1. LIMIT

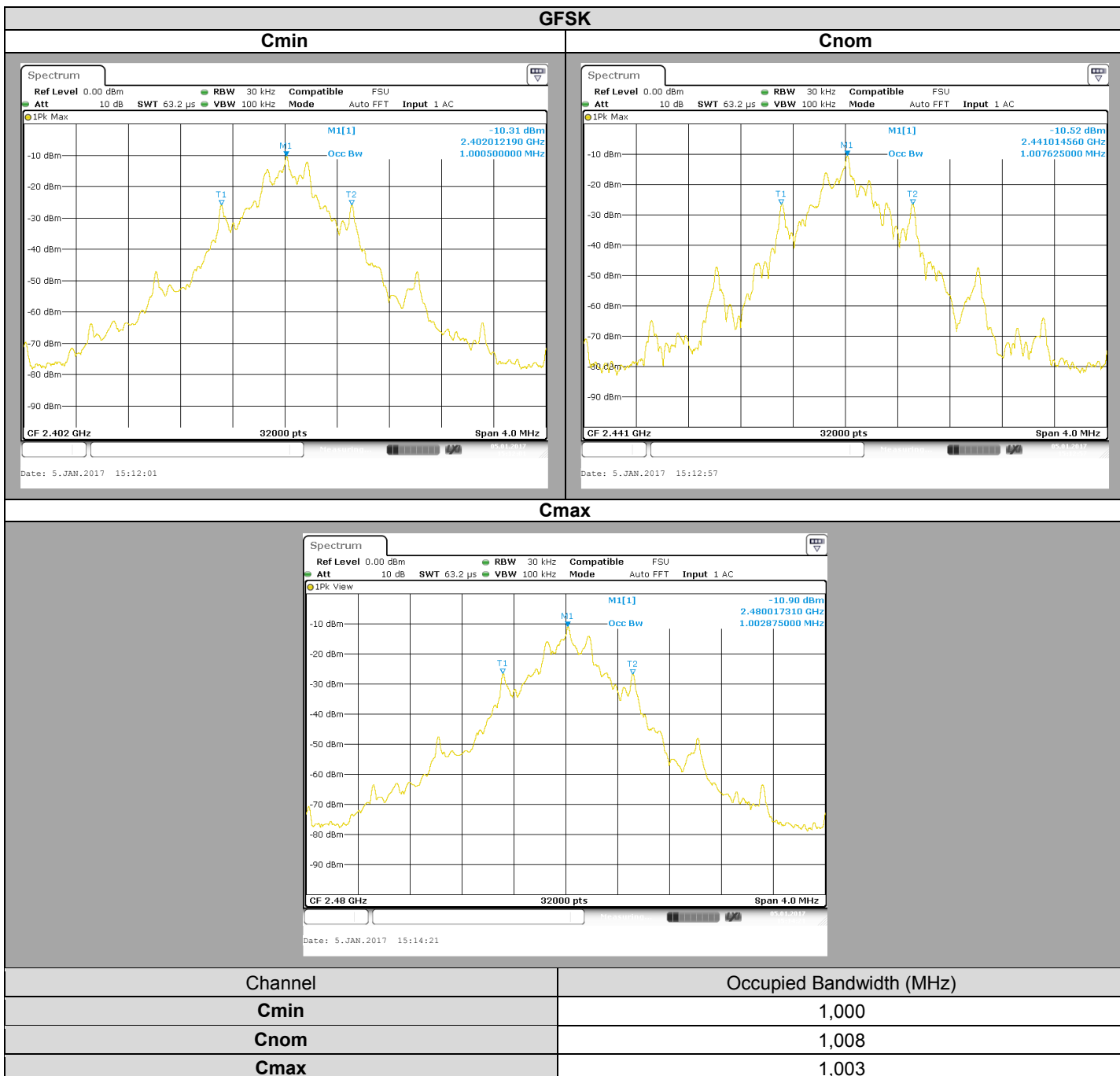
No Limit

3.2. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Calibration date	Calibration due
Multi-meter	KEITHLEY	2000	A1241084	2016/05	2018/05
Programmable AC/DC power supply	-; KIKUSUI	PCR500M	A7049006	Verified with calibrated multimeter	Verified with calibrated multimeter
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2017/09
RF cable & 20 dB attenuator	Télédyne	920-0202-048	A5329676	2016/09	2017/09

Note: In our quality system, the test equipment calibration due is more & less 2 months

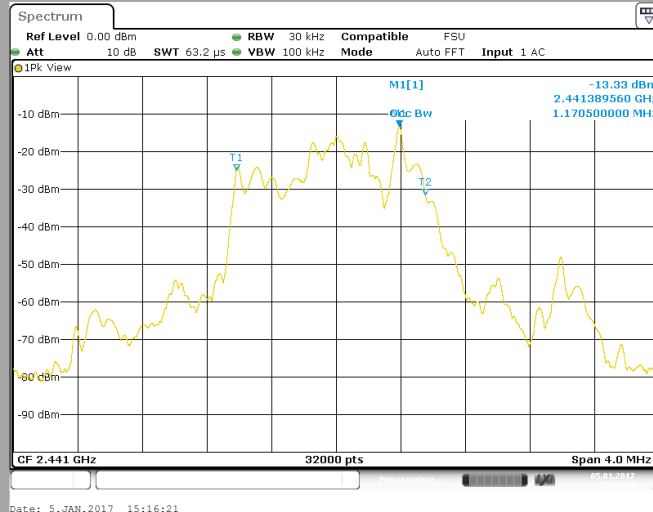
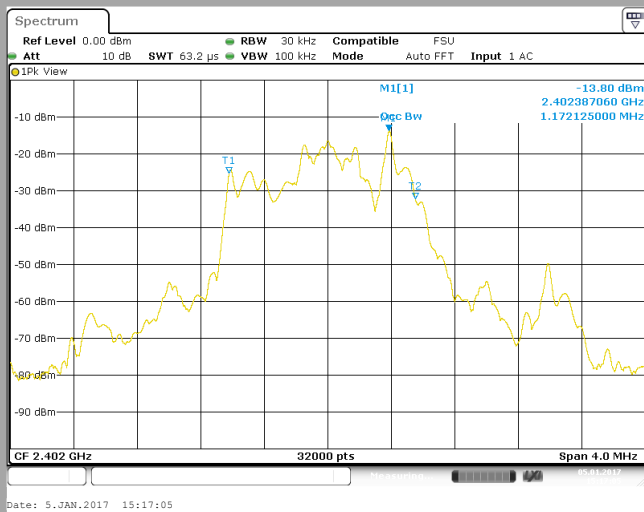
3.3. RESULTS



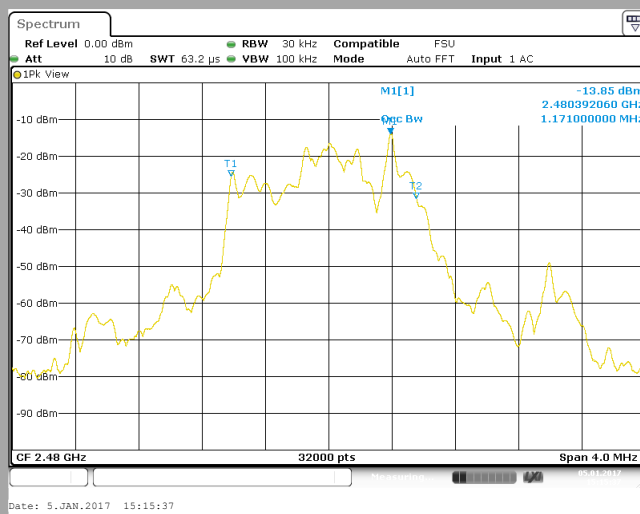
$\pi/4$ DQPSK

Cmin

Cnom



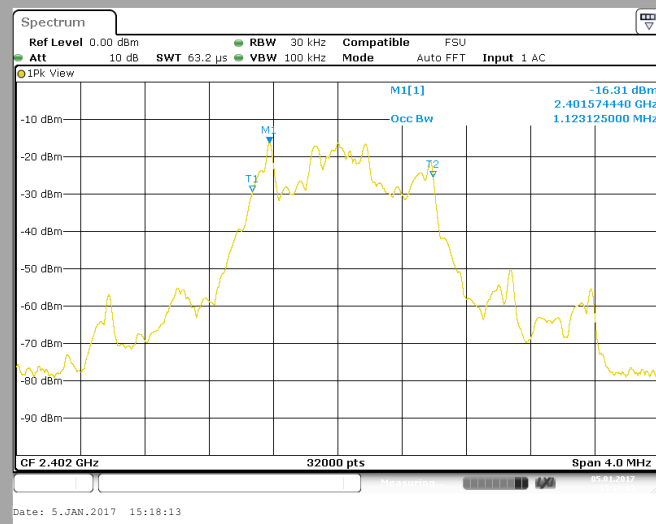
Cmax



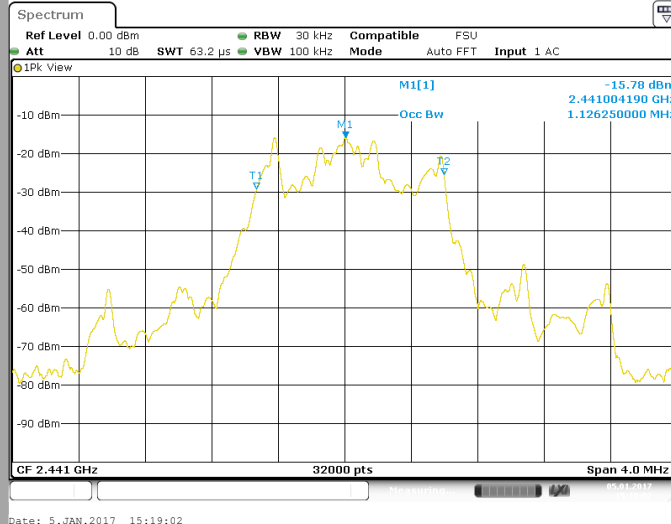
Channel	Occupied Bandwidth (MHz)
Cmin	1,172
Cnom	1,705
Cmax	1,171

8DPSK

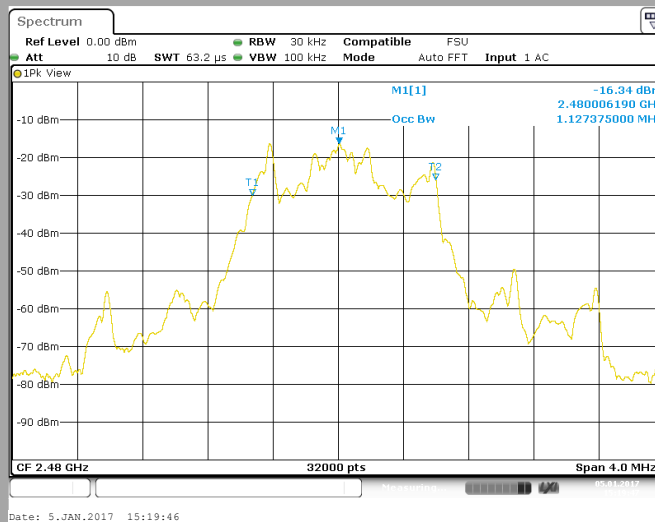
Cmin



Cnom



Cmax



Channel	Occupied Bandwidth (MHz)
Cmin	1,123
Cnom	1,126
Cmax	1,127

3.4. CONCLUSION

Occupied Bandwidth measurement performed on the sample of the product **SAGEMCOM DCIWA384 UHD Alt US**, SN: **616476080862**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247** limits.

4. 20dB EMISSION BANDWIDTH

4.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER
Date of test : December 15, 2016
Ambient temperature : 24 °C
Relative humidity : 41 %

4.2. TEST SETUP

- The Equipment Under Test is installed:

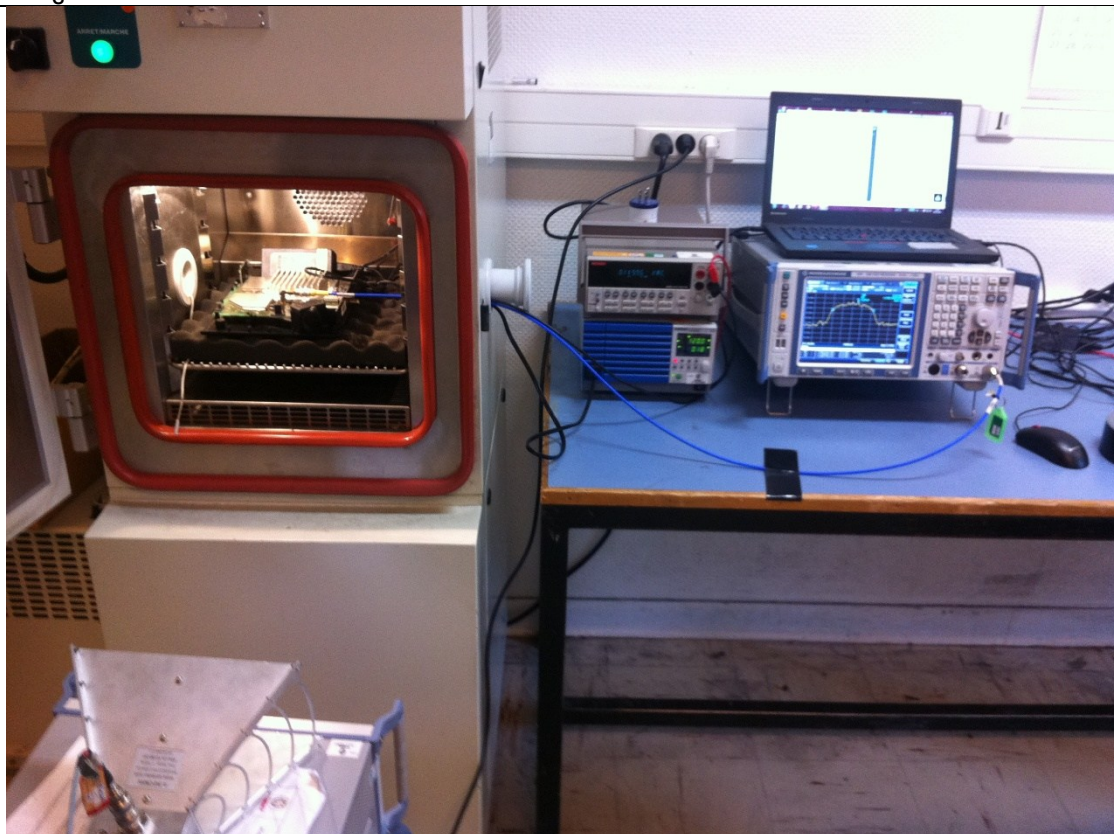
- ☐ On a table
- ☐ In an anechoic chamber
- ☒ In climatic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ FCC DA 00-705 (20dB Bandwidth)
- ☐ ANSI C63.10 § 6.9.2



Photograph for 20dB emission bandwidth



4.3. LIMIT

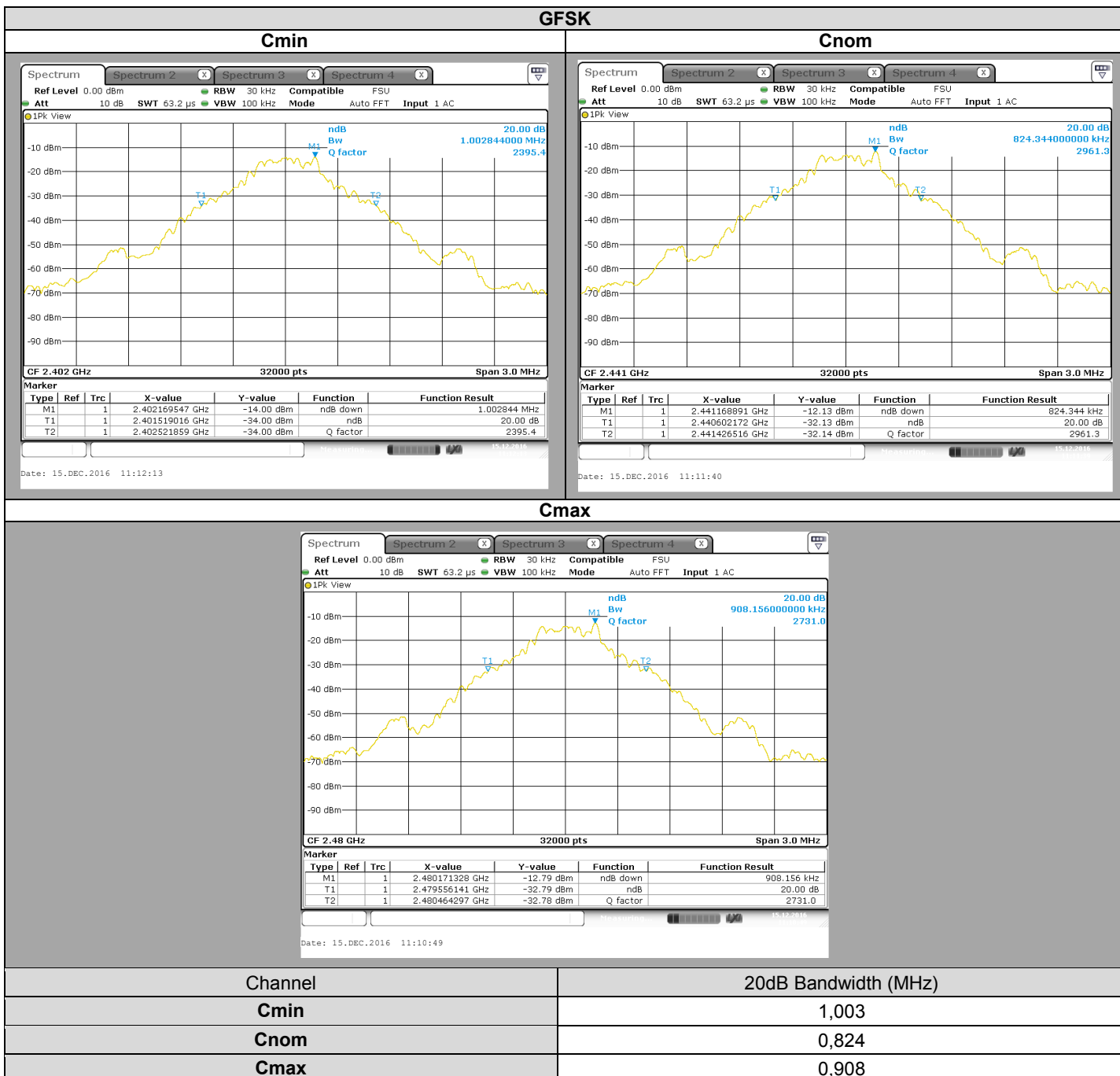
No Limit

4.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Calibration date	Calibration due
Multi-meter	KEITHLEY	2000	A1241084	2016/05	2018/05
Programmable AC/DC power supply	-; KIKUSUI	PCR500M	A7049006	Verified with calibrated multimeter	Verified with calibrated multimeter
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2017/09
RF cable & 20 dB attenuator	Télédyne	920-0202-048	A5329676	2016/09	2017/09

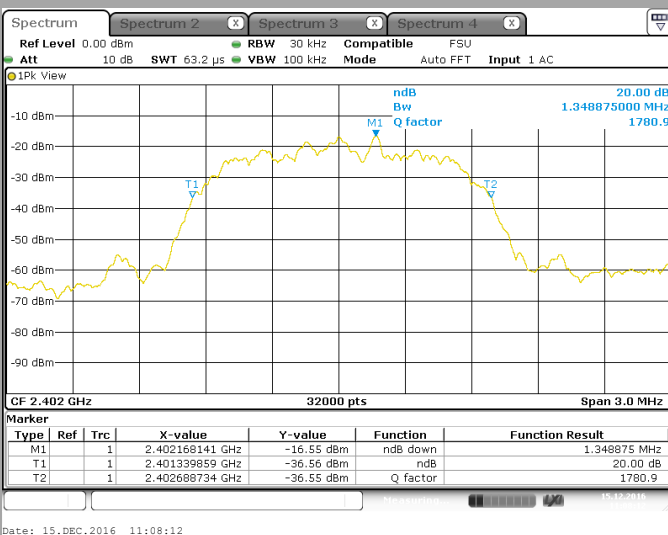
Note: In our quality system, the test equipment calibration due is more & less 2 months

4.5. RESULTS

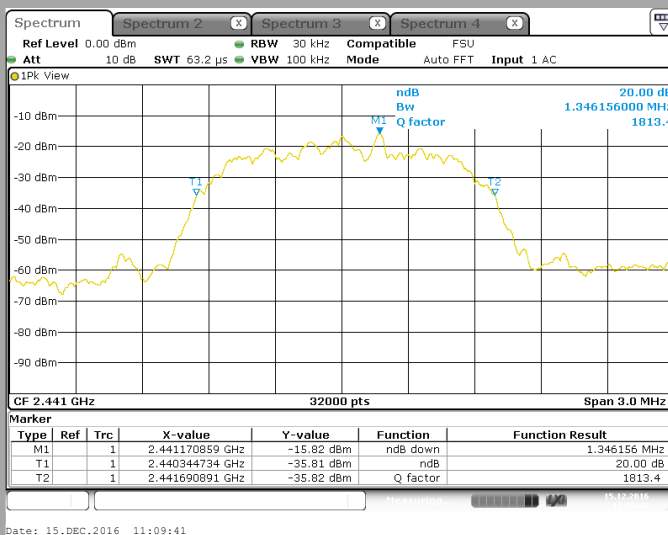


$\pi/4$ DQPSK

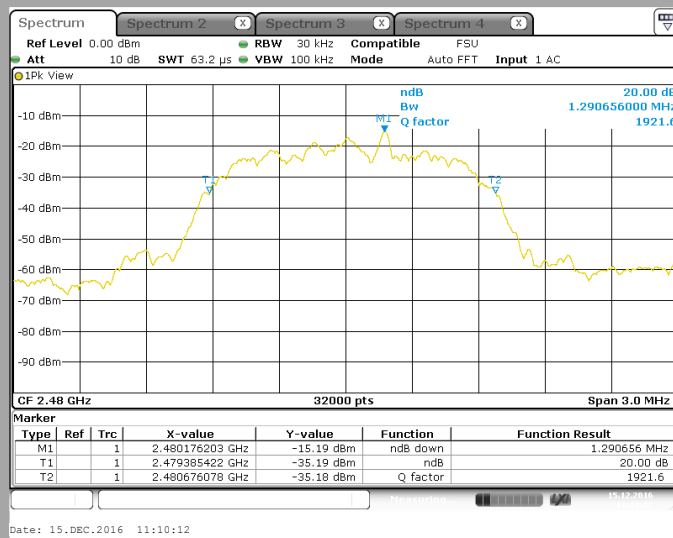
Cmin



Cnom



Cmax



Channel

20dB Bandwidth (MHz)

Cmin

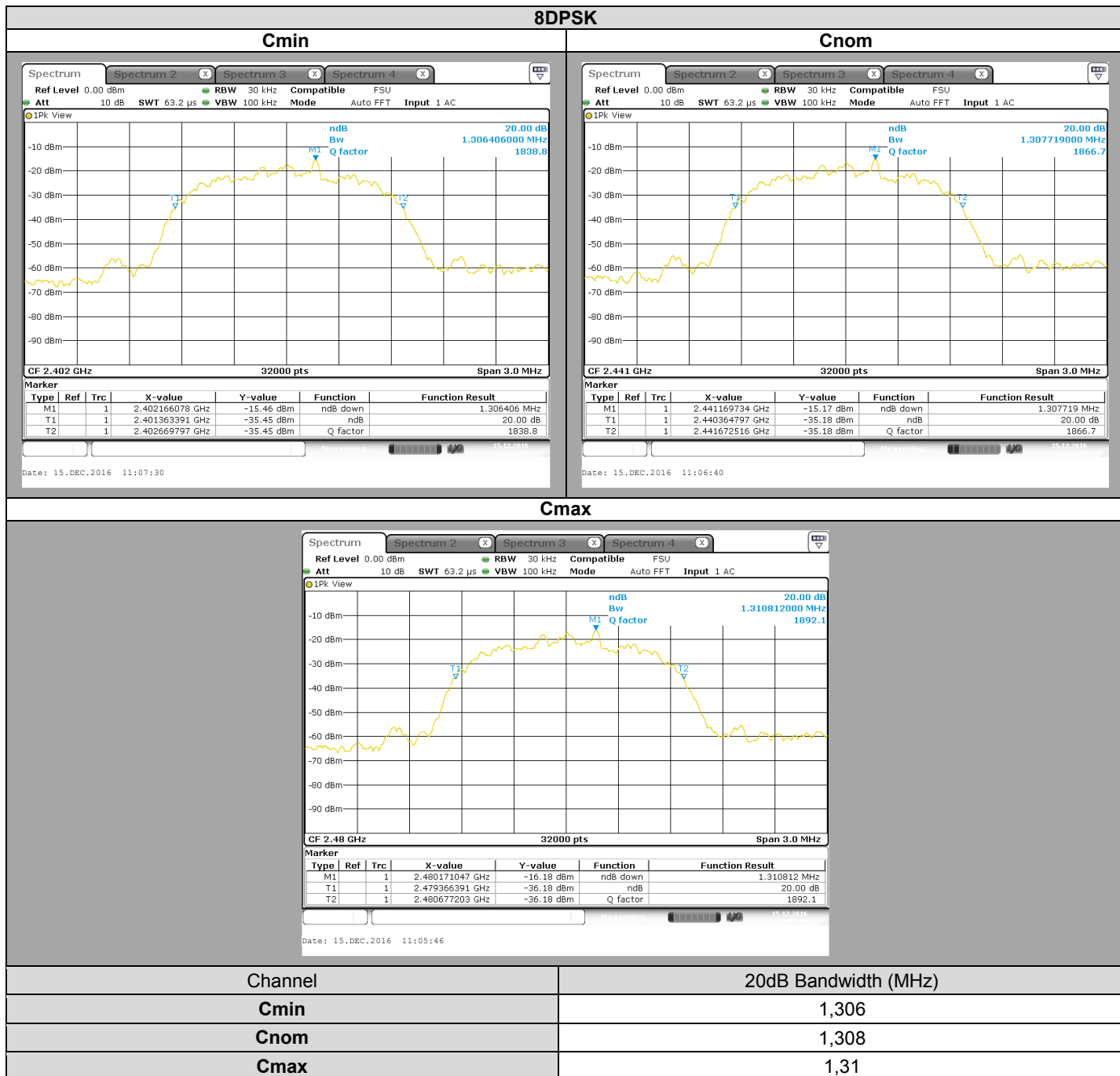
1,349

Cnom

1,346

Cmax

1,29



4.6. CONCLUSION

20dB Emission Bandwidth measurement performed on the sample of the product **SAGEMCOM DCIWA384 UHD Alt US**, SN: **616476080862**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247** limits.

5. NUMBER OF HOPPING FREQUENCY

5.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER
Date of test : December 15, 2016
Ambient temperature : 24 °C
Relative humidity : 41 %

5.2. TEST SETUP

- The Equipment Under Test is installed:

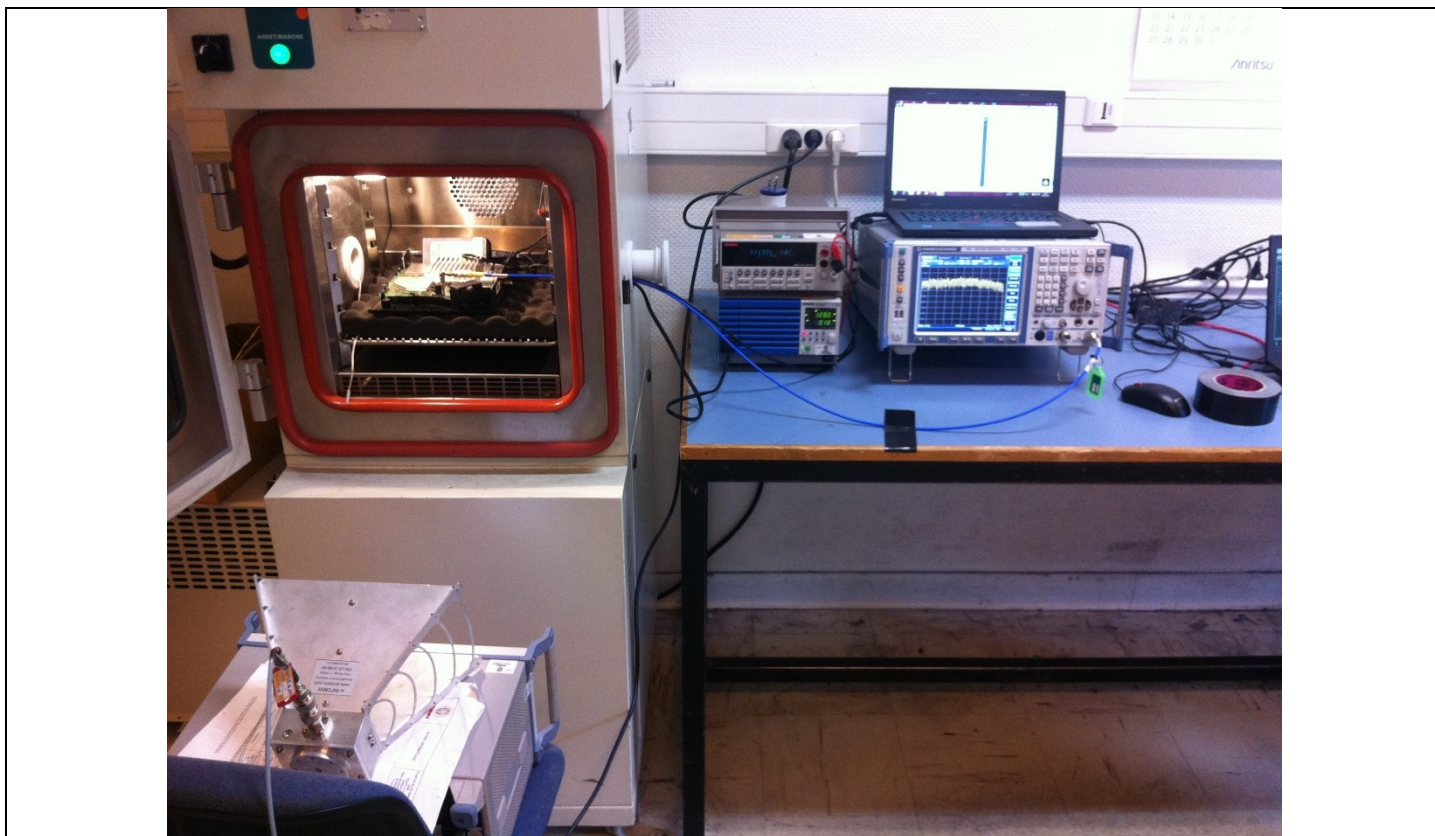
- ☐ On a table
- ☐ In an anechoic chamber
- ☒ In climatic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ FCC DA 00-705 (Number of Hopping Frequencies)
- ☐ ANSI C63.10 § 7.8.3



Photograph for Number of Frequency Hopping



5.3. LIMIT

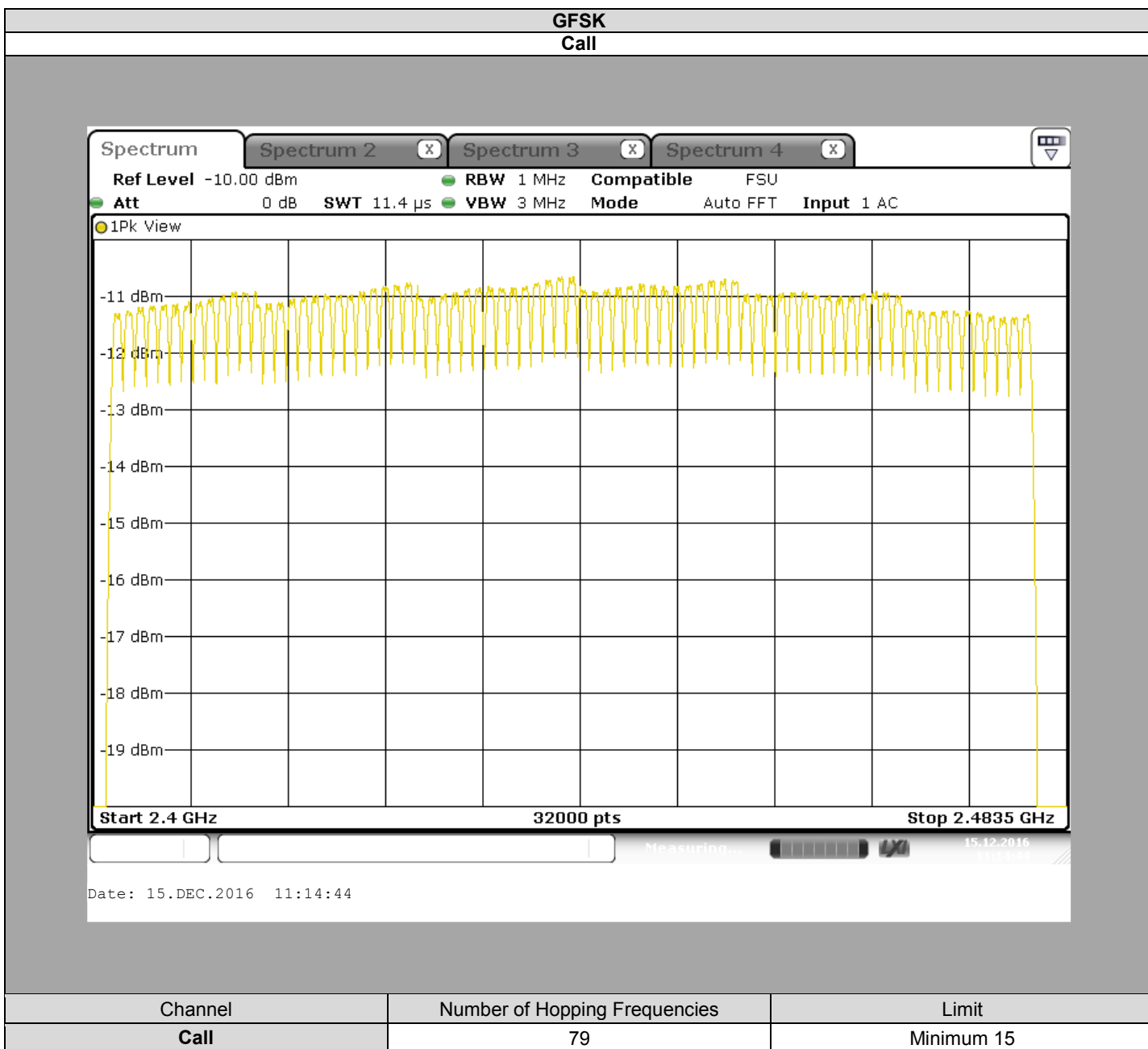
Number of Hopping Frequencies shall be at least 15 channels

5.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Calibration date	Calibration due
Multi-meter	KEITHLEY	2000	A1241084	2016/05	2018/05
Programmable AC/DC power supply	-; KIKUSUI	PCR500M	A7049006	Verified with calibrated multimeter	Verified with calibrated multimeter
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2017/09
RF cable & 20 dB attenuator	Télédyne	920-0202-048	A5329676	2016/09	2017/09

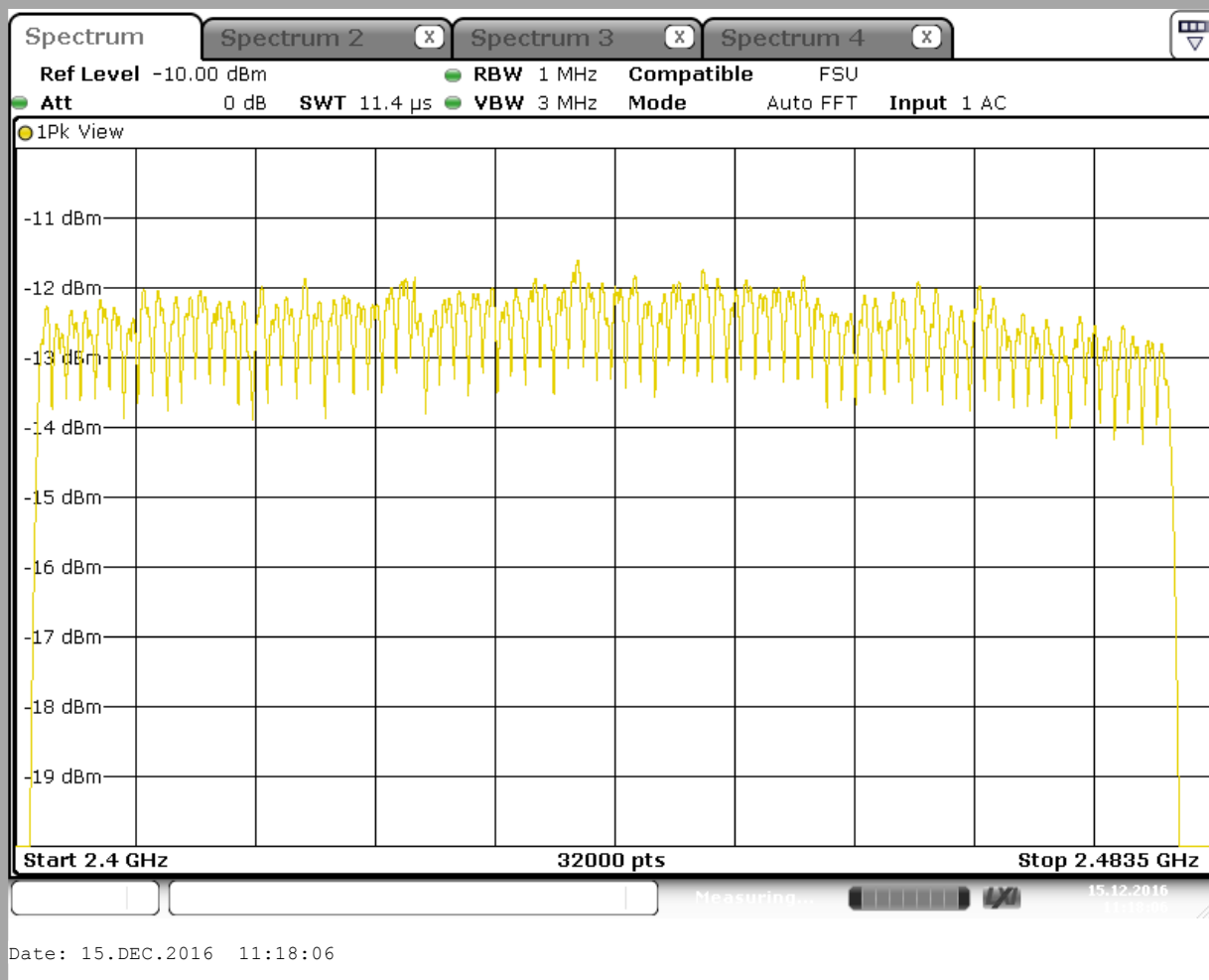
Note: In our quality system, the test equipment calibration due is more & less 2 months

5.5. RESULTS

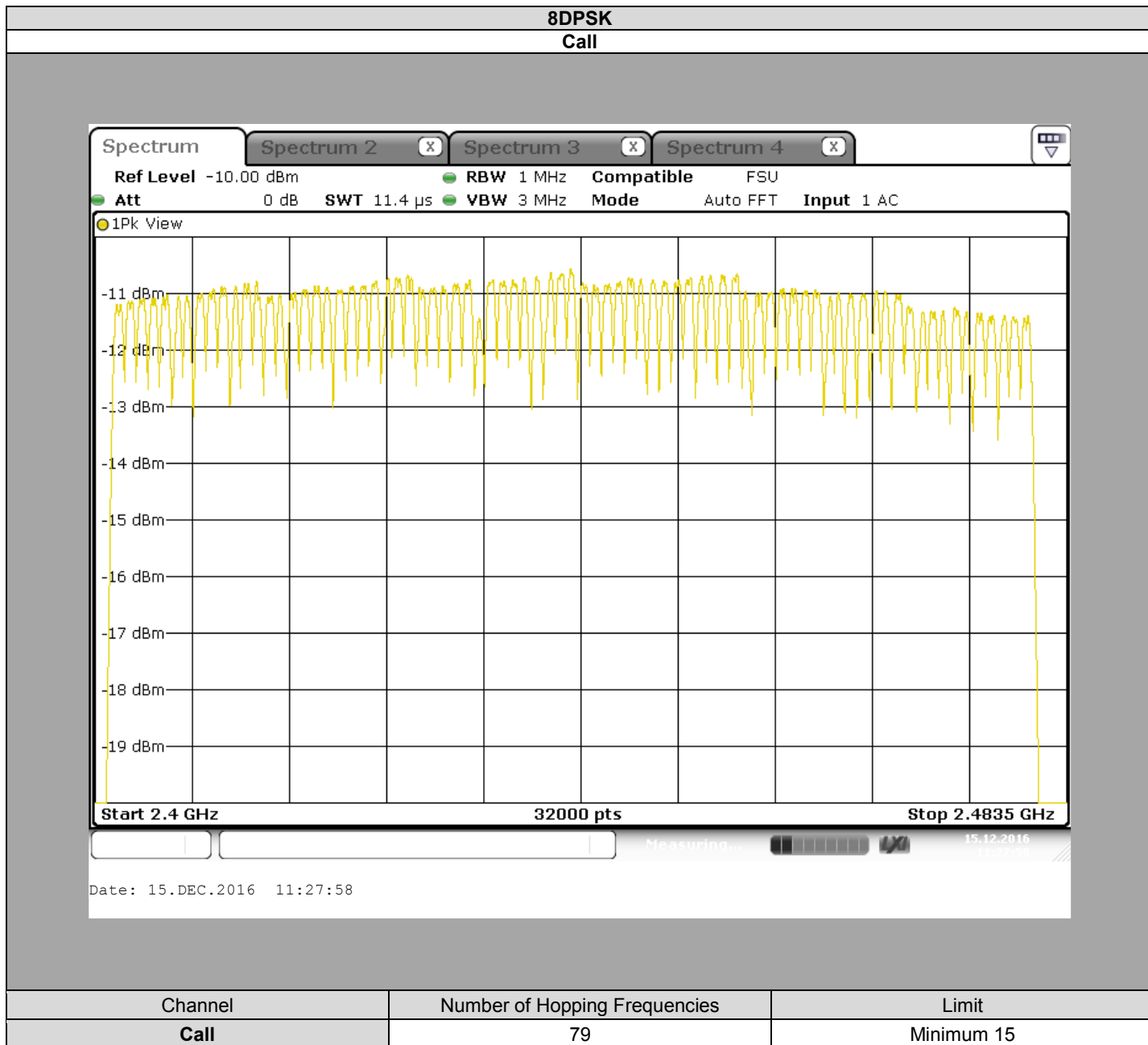


$\pi/4$ DQPSK

Call



Channel	Number of Hopping Frequencies	Limit
Call	79	Minimum 15



5.6. CONCLUSION

Number of Frequency Hopping measurement performed on the sample of the product **SAGEMCOM DCIWA384 UHD Alt US**, SN: **616476080862**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247** limits.

6. CARRIER FREQUENCY SEPARATION

6.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER
Date of test : December 15, 2016
Ambient temperature : 24 °C
Relative humidity : 41 %

6.2. TEST SETUP

- The Equipment Under Test is installed:

- ☐ On a table
- ☐ In an anechoic chamber
- ☒ In climatic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ FCC DA 00-705 (Carrier Frequency Separation)
- ☐ ANSI C63.10 § 7.8.2



Photograph for Carrier Frequency Separation



6.3. LIMIT

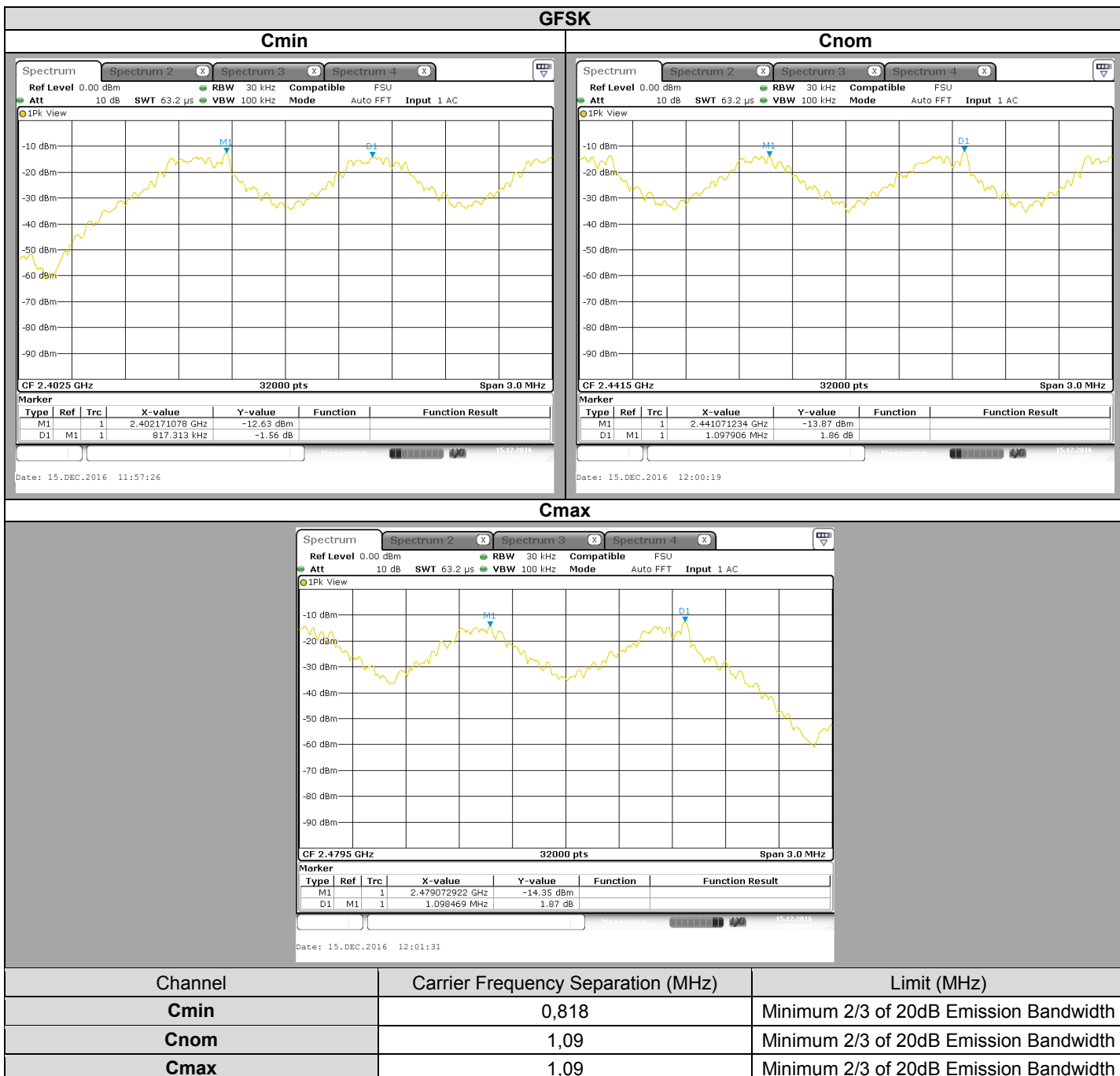
Carrier Frequency Separation shall be at least two-thirds of the 20dB Bandwidth

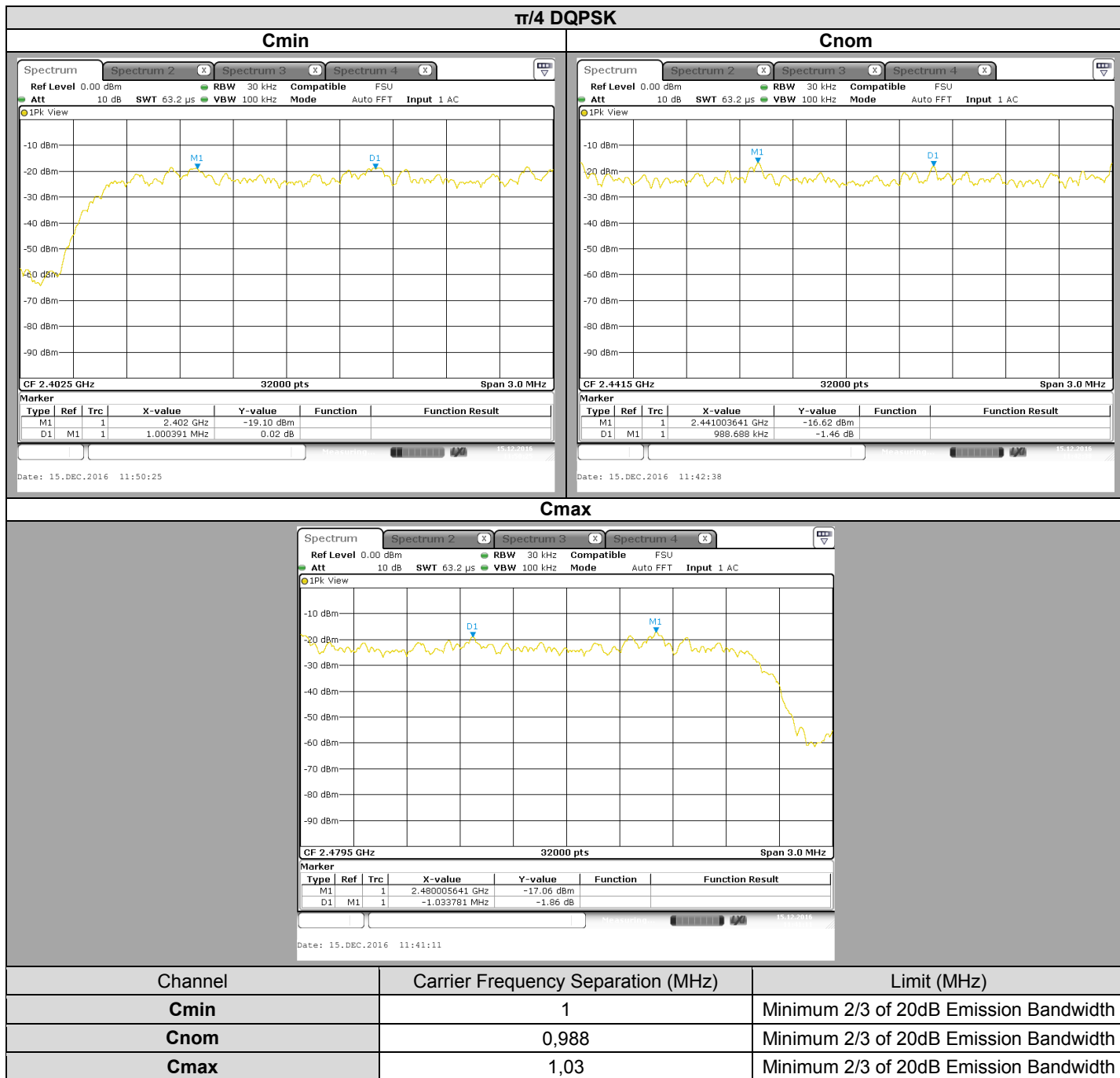
6.4. TEST EQUIPMENT LIST

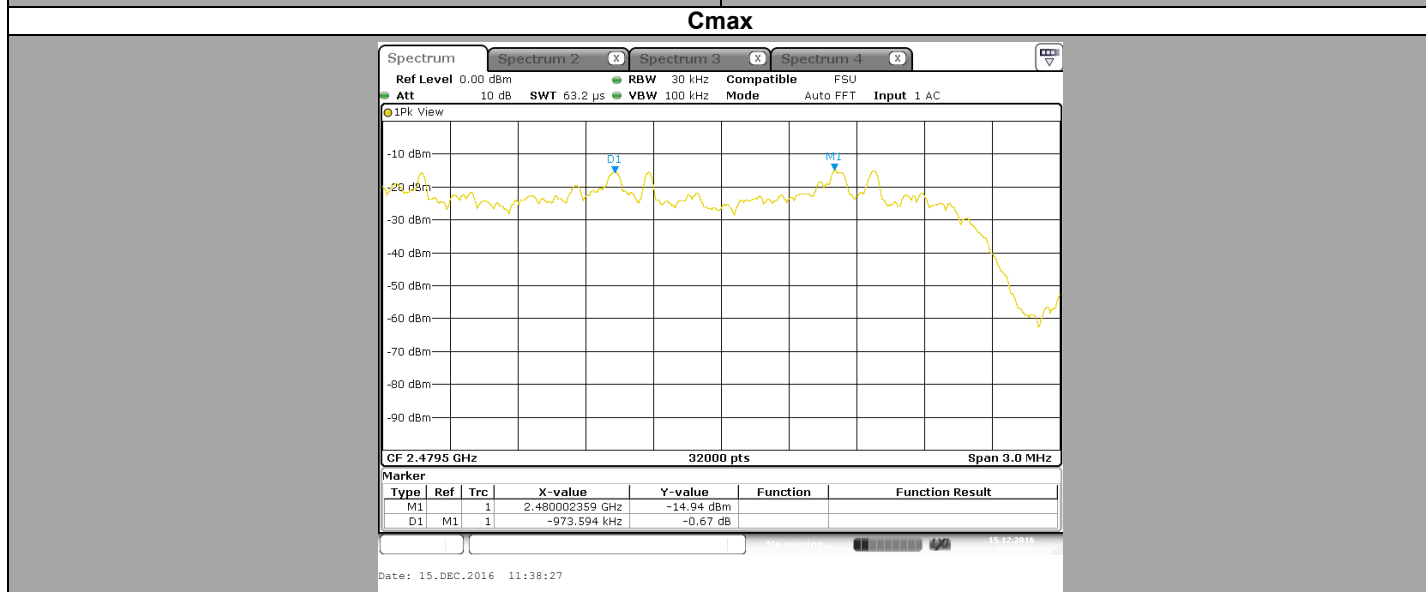
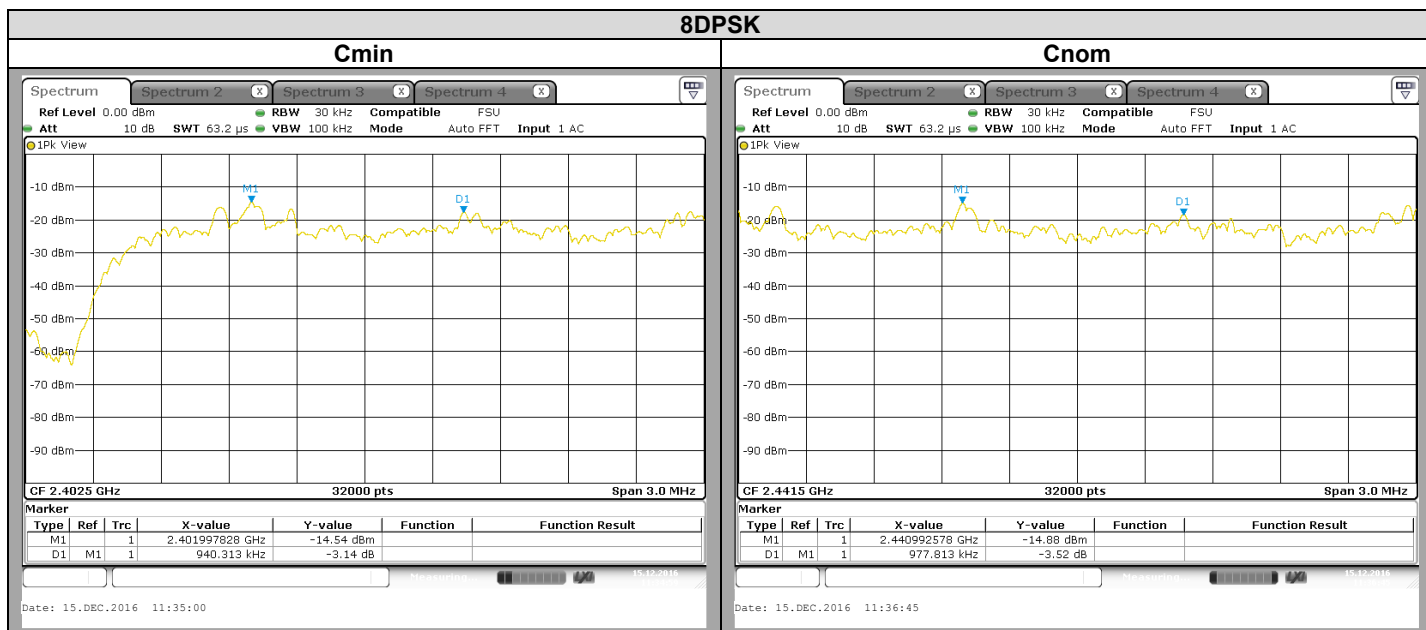
DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Calibration date	Calibration due
Multi-meter	KEITHLEY	2000	A1241084	2016/05	2018/05
Programmable AC/DC power supply	-; KIKUSUI	PCR500M	A7049006	Verified with calibrated multimeter	Verified with calibrated multimeter
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2017/09
RF cable & 20 dB attenuator	Télédyne	920-0202-048	A5329676	2016/09	2017/09

Note: In our quality system, the test equipment calibration due is more & less 2 months

6.5. RESULTS







Channel	Carrier Frequency Separation (MHz)	Limit (MHz)
Cmin	0,94	Minimum 2/3 of 20dB Emission Bandwidth
Cnom	0,977	Minimum 2/3 of 20dB Emission Bandwidth
Cmax	0,974	Minimum 2/3 of 20dB Emission Bandwidth

6.6. CONCLUSION

Carrier Frequency Separation measurement performed on the sample of the product **SAGEMCOM DCIWA384 UHD Ait US**, SN: **616476080862**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247** limits.

7. TIME OF OCCUPANCY

7.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER
Date of test : December 15, 2016
Ambient temperature : 24 °C
Relative humidity : 41 %

7.2. TEST SETUP

- The Equipment Under Test is installed:

- ☐ On a table
- ☐ In an anechoic chamber
- ☒ In climatic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ FCC DA 00-705 (Time of Occupancy)
- ☐ ANSI C63.10 § 7.8.4



Photograph for Time of Occupancy



7.3. LIMIT

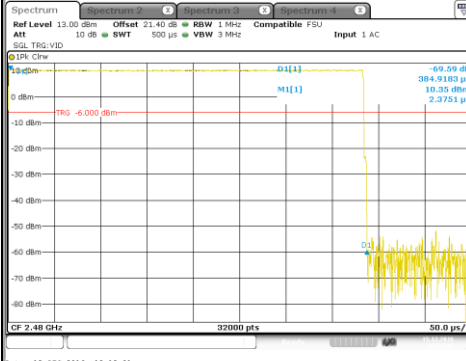
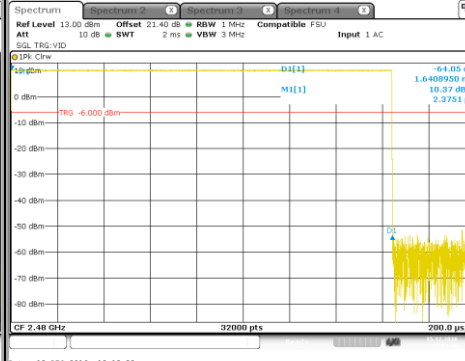
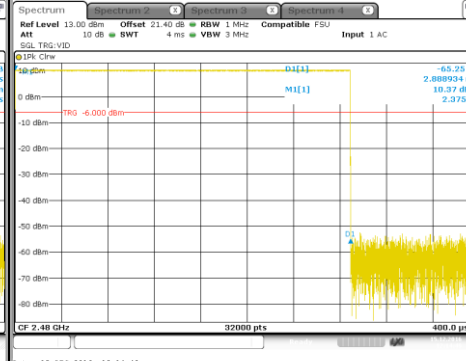
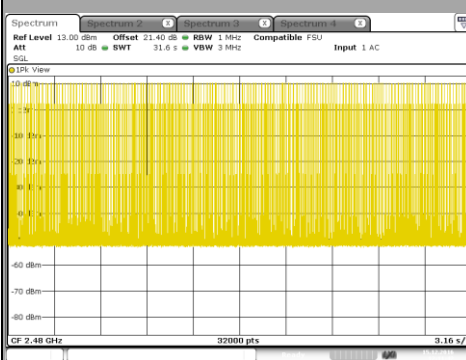
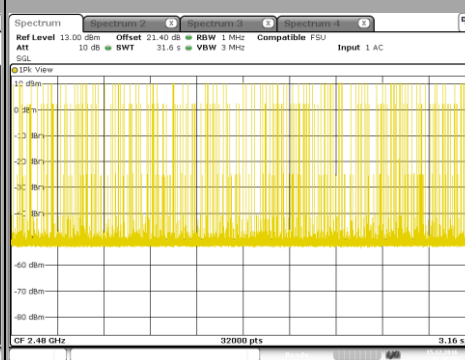
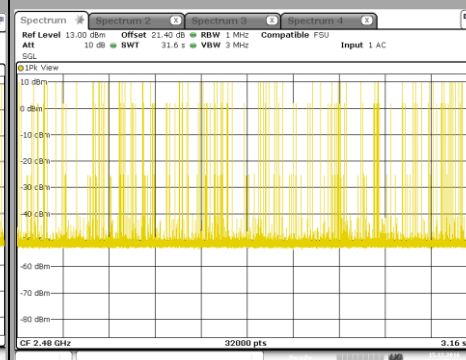
The Time of Occupancy shall not exceed 0.4s within any period of 0.4s multiplied by the number of hopping channels employed

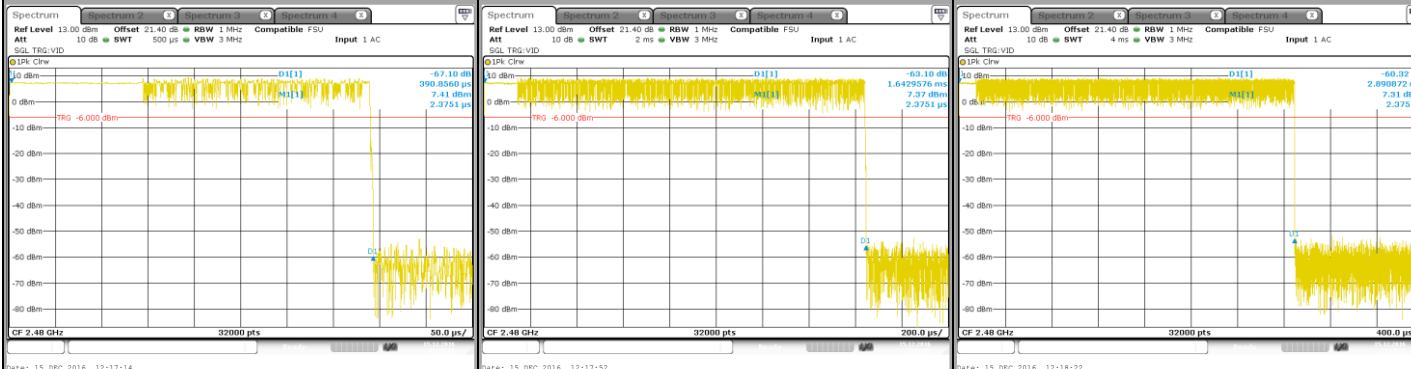
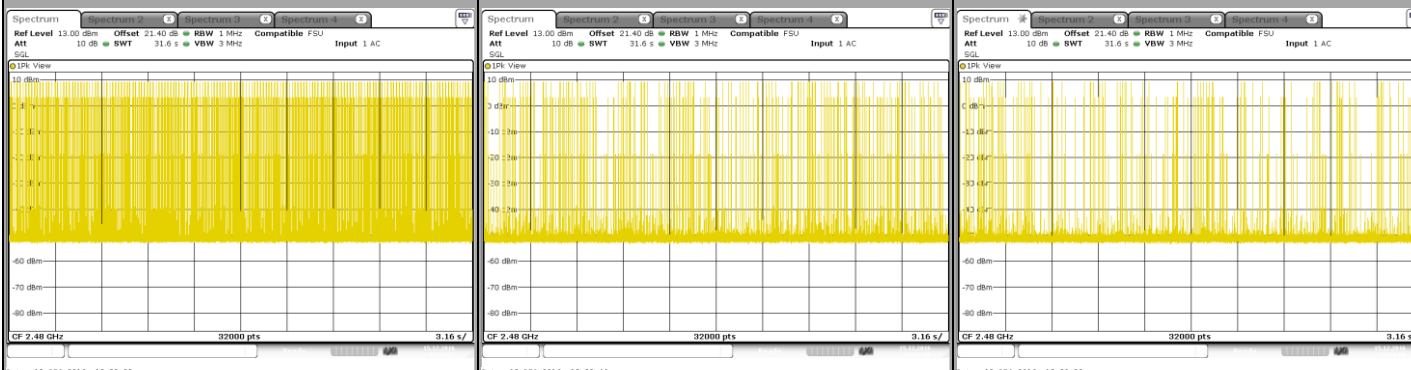
7.4. TEST EQUIPMENT LIST

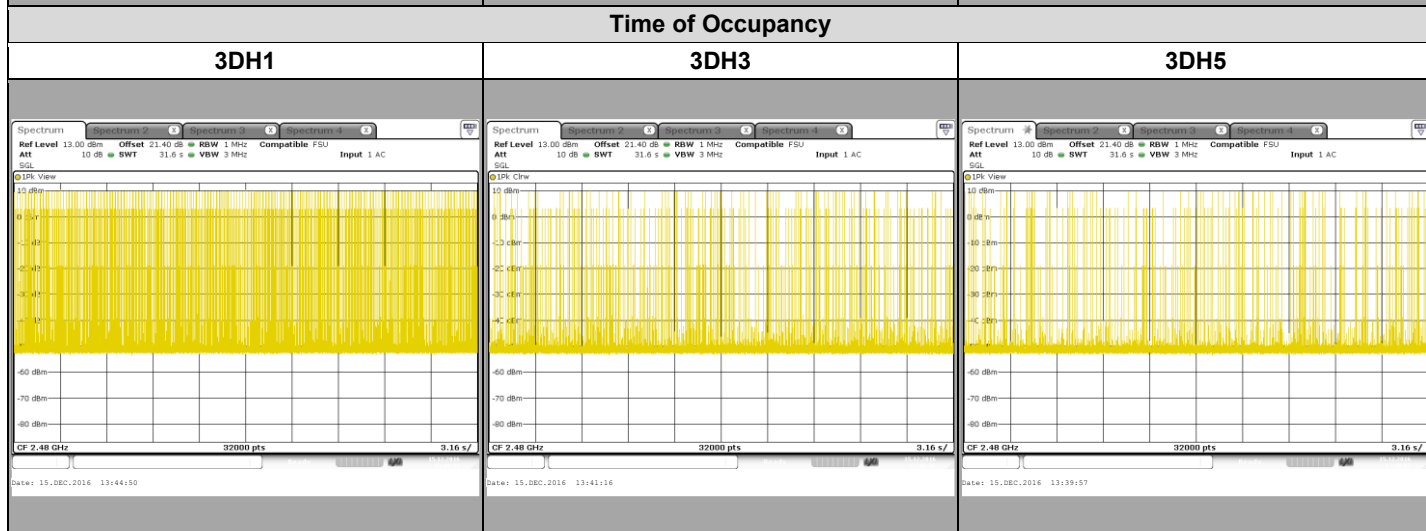
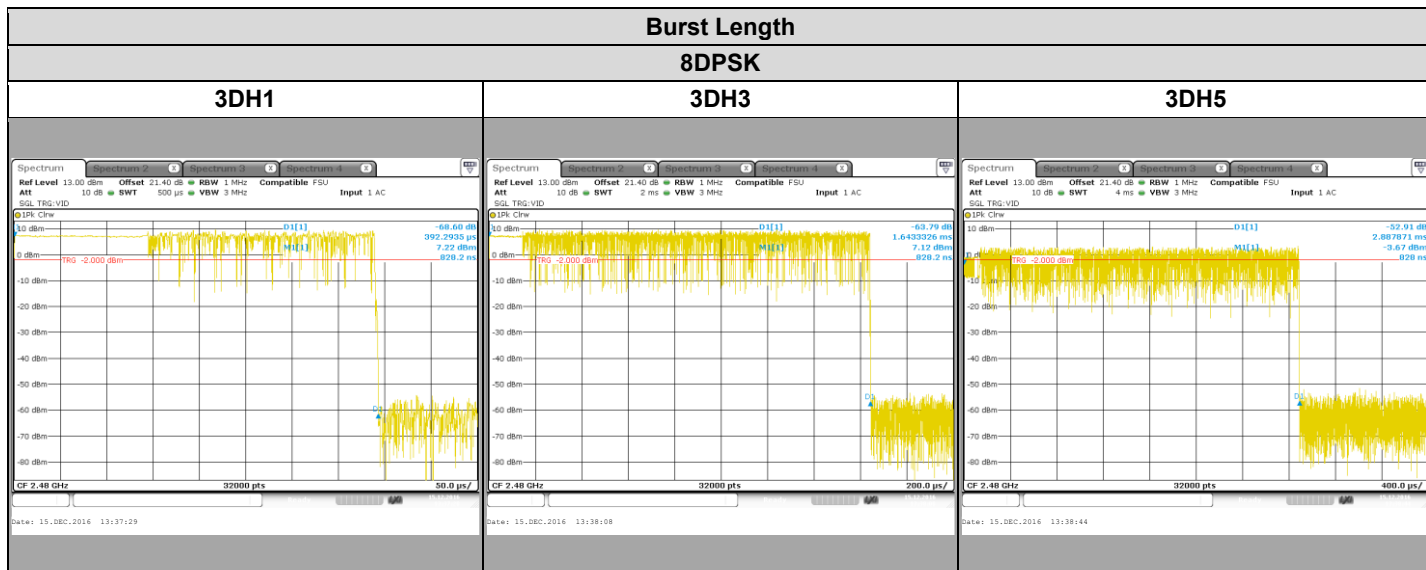
DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Calibration date	Calibration due
Multi-meter	KEITHLEY	2000	A1241084	2016/05	2018/05
Programmable AC/DC power supply	-; KIKUSUI	PCR500M	A7049006	Verified with calibrated multimeter	Verified with calibrated multimeter
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2017/09
RF cable & 20 dB attenuator	Télédyne	920-0202-048	A5329676	2016/09	2017/09

Note: In our quality system, the test equipment calibration due is more & less 2 months

7.5. RESULTS

Burst Length				
GFSK				
DH1		DH3		DH5
				
Time of Occupancy				
DH1		DH3		DH5
				
Packet Type	Burst Length (ms)	Number of Hopping during Time of Occupancy	Time of Occupancy (ms)	Limit of Time of Occupancy (ms)
DH1	0,385	269	103,6	400
DH3	1,64	113	185,3	400
DH5	2,88	64	184,3	400

Burst Length				
$\pi/4$ DQPSK				
2DH1		2DH3		2DH5
				
Time of Occupancy				
2DH1		2DH3		2DH5
				
Packet Type	Burst Length (ms)	Number of Hopping during Time of Occupancy	Time of Occupancy (ms)	Limit of Time of Occupancy (ms)
2DH1	0,391	282	110,3	400
2DH3	1,64	113	185,3	400
2DH5	2,89	73	211	400



Packet Type	Burst Length (ms)	Number of Hopping during Time of Occupancy	Time of Occupancy (ms)	Limit of Time of Occupancy (ms)
DH1	0,392	270	105,8	400
DH3	1,64	79	129,6	400
DH5	2,89	70	202,3	400

7.6. CONCLUSION

Time of Occupancy measurement performed on the sample of the product **SAGEMCOM DCIWA384 UHD Ait US**, SN: **616476080862**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247** limits.

8. DUTY CYCLE

8.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER
Date of test : December 15, 2016
Ambient temperature : 24 °C
Relative humidity : 41 %

8.2. TEST SETUP

- The Equipment Under Test is installed:

- ☐ On a table
- ☐ In an anechoic chamber
- ☒ In climatic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☒ ANSI C63.10 § 11.6



Photograph for Duty Cycle

8.3. LIMIT

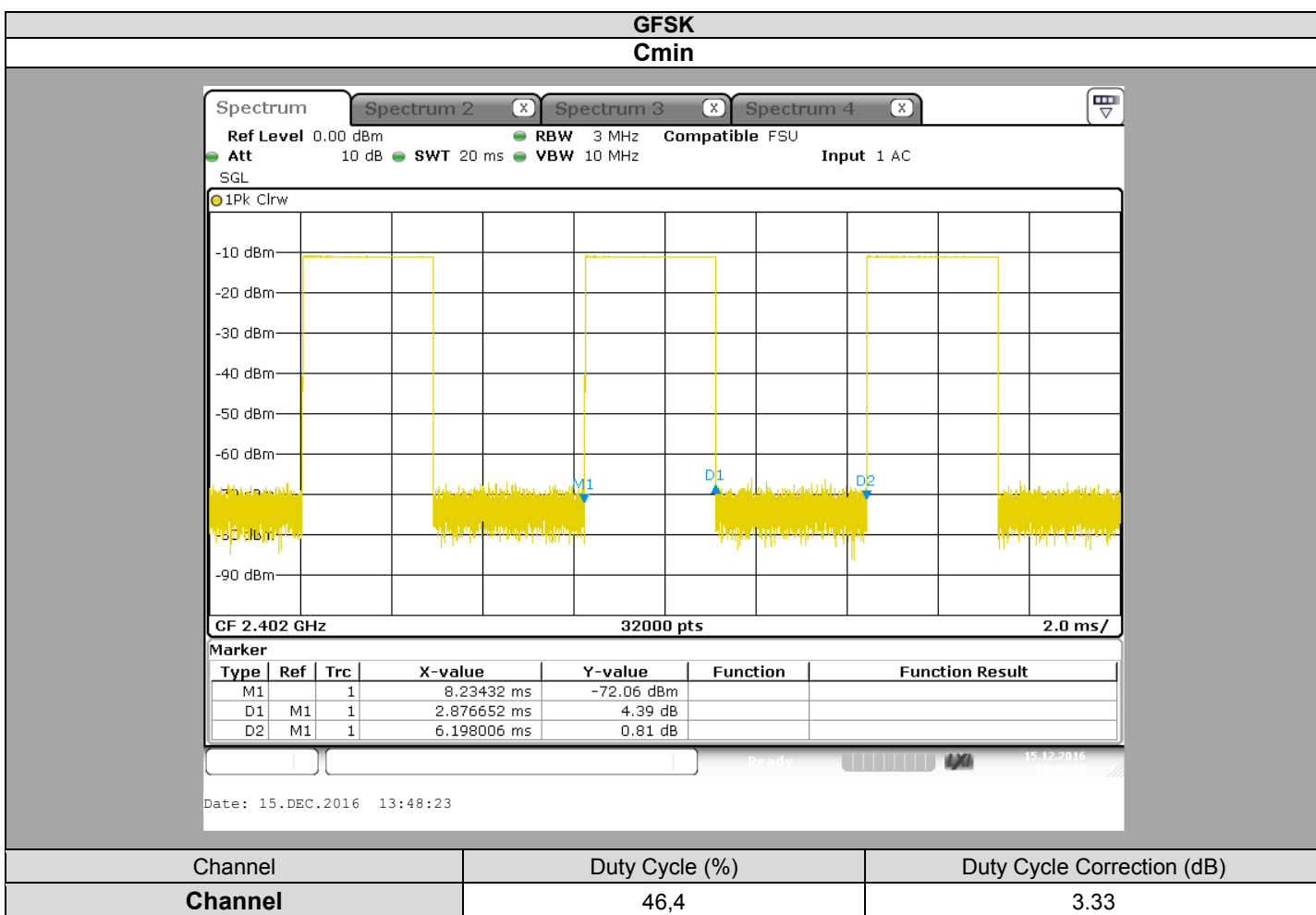
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8.4. TEST EQUIPMENT LIST

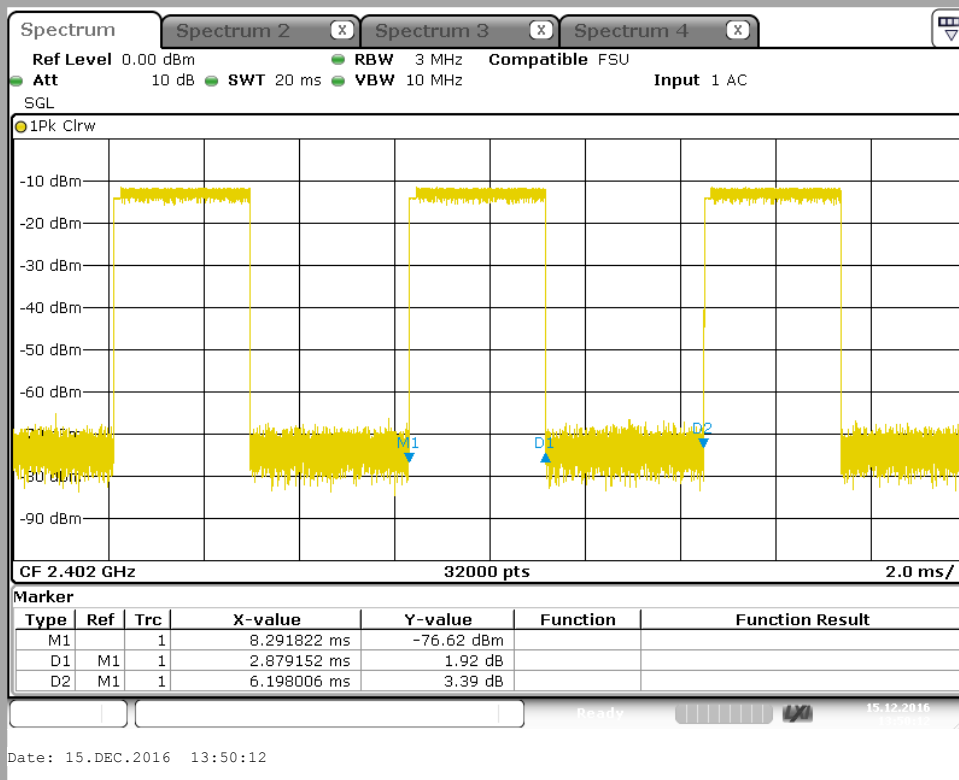
DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Calibration date	Calibration due
Multi-meter	KEITHLEY	2000	A1241084	2016/05	2018/05
Programmable AC/DC power supply	-; KIKUSUI	PCR500M	A7049006	Verified with calibrated multimeter	Verified with calibrated multimeter
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2017/09
RF cable & 20 dB attenuator	Télédyn	920-0202-048	A5329676	2016/09	2017/09

Note: In our quality system, the test equipment calibration due is more & less 2 months

8.5. RESULTS

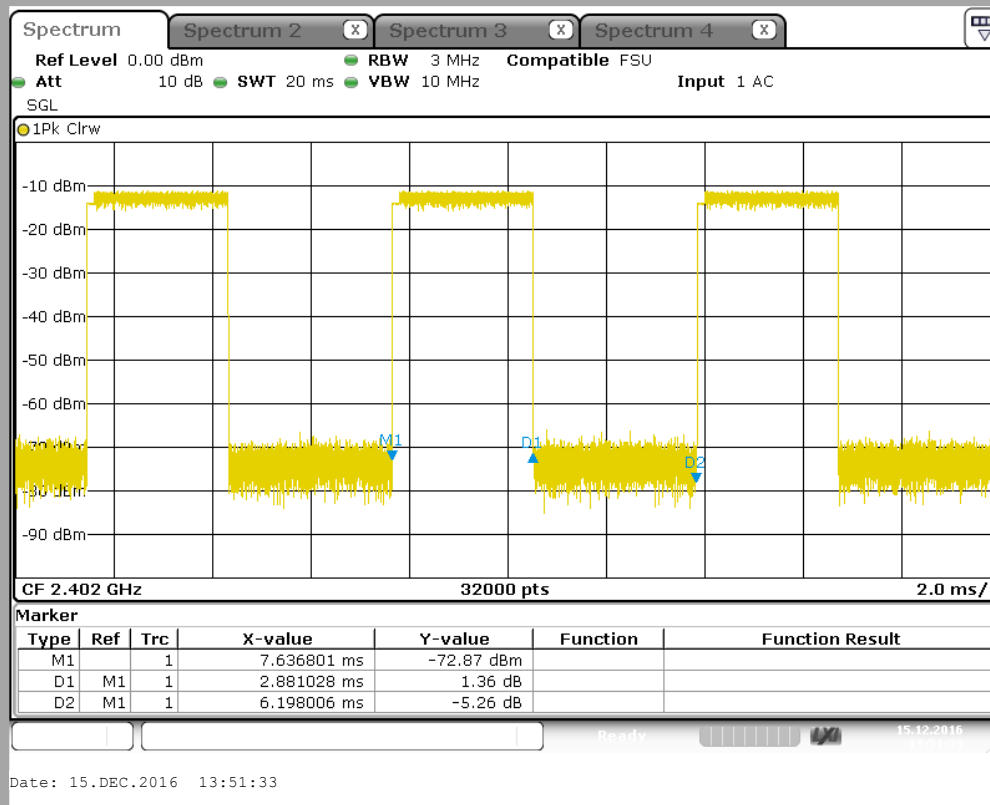


$\pi/4$ DQPSK
Cmin



Channel	Duty Cycle (%)	Duty Cycle Correction (dB)
Channel	46,5	3.33

**8DPSK
Cmin**



Channel	Duty Cycle (%)	Duty Cycle Correction (dB)
Channel	46,5	3.33

8.6. CONCLUSION

Duty Cycle measurement performed on the sample of the product **SAGEMCOM DCIWA384 UHD Alt US**, SN: **616476080862** in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247** limits.

9. MAXIMUM CONDUCTED OUTPUT POWER

9.1. TEST CONDITIONS

Test performed by : Mathieu CERISIER
Date of test : December 15, 2016
Ambient temperature : 24 °C
Relative humidity : 41 %

9.2. TEST SETUP

- The Equipment Under Test is installed:

- ☐ On a table
- ☐ In an anechoic chamber
- ☒ In climatic chamber

- Measurement is performed with a spectrum analyzer in:

- ☒ Conducted Method
- ☐ Radiated Method

- Test Procedure:

- ☐ FCC DA 00-705 (Peak Output Power)
- ☒ ANSI C63.10 § 7.8.5



Photograph for Maximum Conducted Output Power



9.3. LIMIT

Maximum Conducted Output power:

Shall not exceed 21dBm

Limits are reduced by G-6dBi if Antenna Gain above 6dBi

9.4. TEST EQUIPMENT LIST

DESCRIPTION	MANUFACTURER	MODEL	N° LCIE	Calibration date	Calibration due
Multi-meter	KEITHLEY	2000	A1241084	2016/05	2018/05
Programmable AC/DC power supply	-; KIKUSUI	PCR500M	A7049006	Verified with calibrated multimeter	Verified with calibrated multimeter
EMI receiver	ROHDE & SCHWARZ	ESR 7	A2642023	2016/09	2017/09
RF cable & 20 dB attenuator	Télédyne	920-0202-048	A5329676	2016/09	2017/09

Note: In our quality system, the test equipment calibration due is more & less 2 months

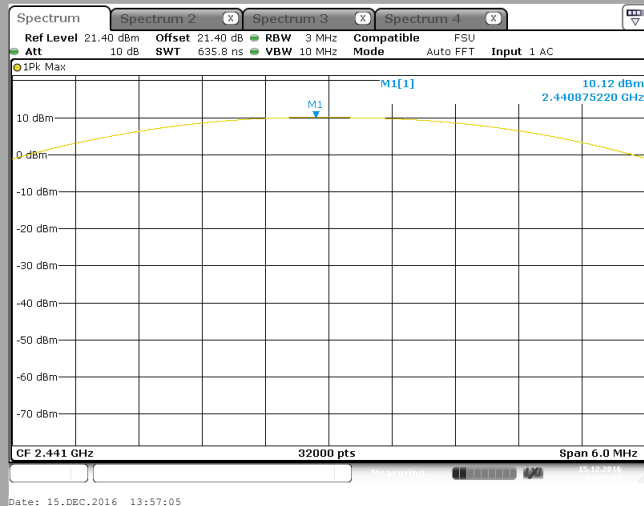
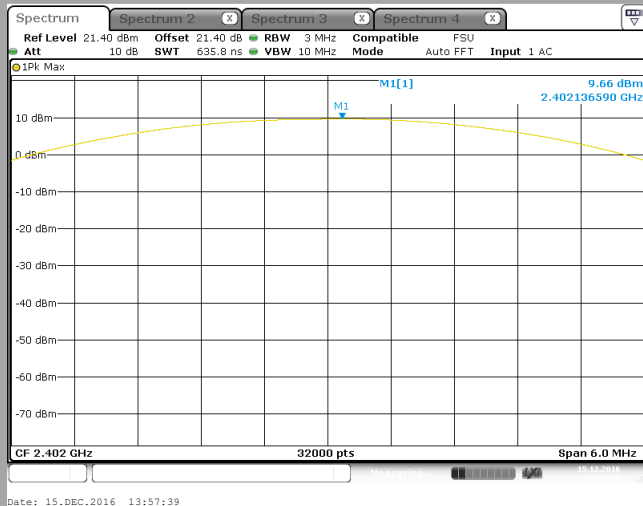
9.5. RESULTS



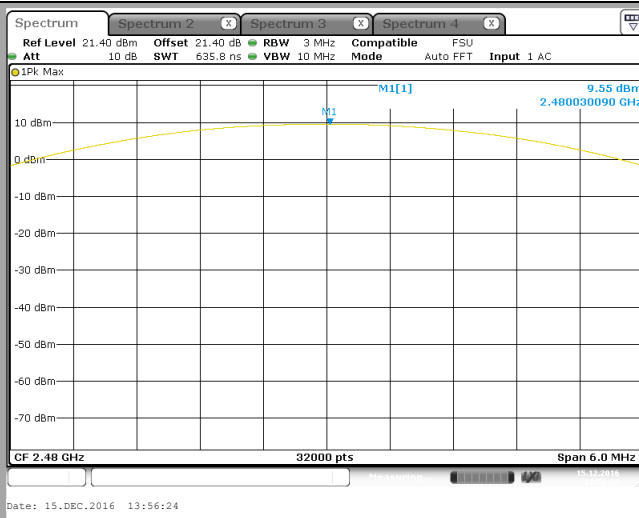
$\pi/4$ DQPSK

Cmin

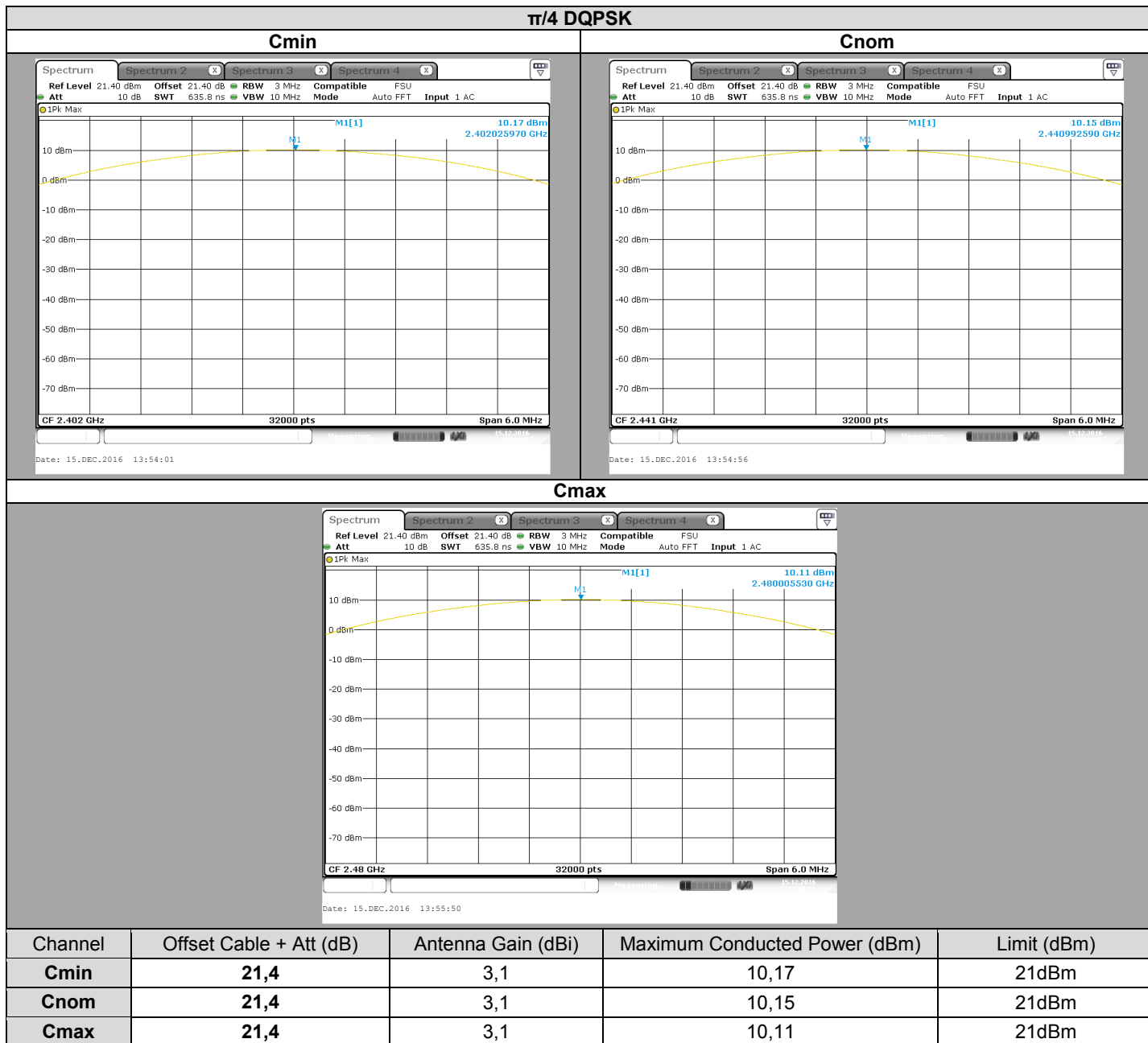
Cnom



Cmax



Channel	Offset Cable + Att (dB)	Antenna Gain (dBi)	Maximum Conducted Power (dBm)	Limit (dBm)
Cmin	21,4	3,1	9,66	21dBm
Cnom	21,4	3,1	10,12	21dBm
Cmax	21,4	3,1	9,55	21dBm



9.6. CONCLUSION

Maximum Conducted Output Power measurement performed on the sample of the product **SAGEMCOM DCIWA384 UHD Alt US**, SN: **616476080862**, in configuration and description presented in this test report, show levels **compliant** to the **47 CFR PART 15.247** limits.