

Measurement Results

1-8822/19-01-05_log1_conducted

[Test logging](#)

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Document authorized:

Mihail Dorongovskij
Lab Manager
Radio Communications

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IUT Summary

IUT DEFINITION & Common settings	
Manufacturer	steute Technologies GmbH & Co KG
Type	TX NGF ULR2.4-safe; RX NGF ULR2.4-safe
Serial No. Setup No.	1473157 / SerNo: 00034 (0x22) 1.0
SW Version HW Version	V01.07 NI
Comment 1 2	Chain A
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	24.0 24.0 24.0 @1
Auto Control enabled Power Supply Climatic Box	No No
Antenna Gain [dBi] (only considered if explicitly mentioned in testresult)	0
Additional Path Loss [dB]	0

IUT Common Settings 2G4	
Hopping supported	Yes
Burst length [ms]	10
Nominal Bandwidth [MHz]	1.5
User Interaction	No

1. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 11:44:22
Ambit Temp [°C] Humidity [rel%]	25.3 37
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20DB FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

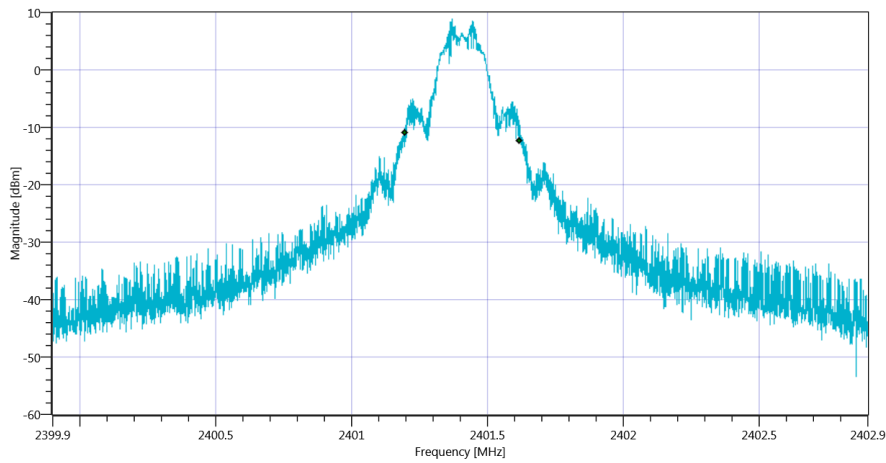
Test at TX 2401.4 MHz

READ SA SETTINGS:

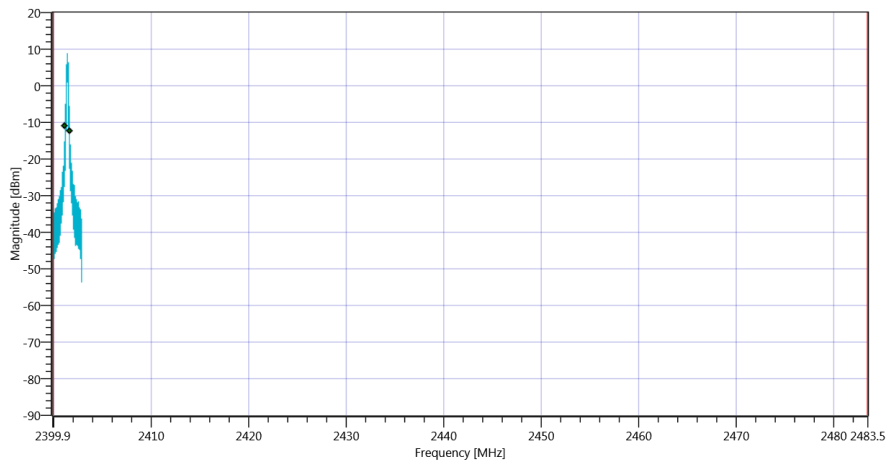
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.22 10.21 20
Start [MHz] Stop [MHz]	2399.900 2402.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	422	kHz	INFO
T1 99%	2400.000000	---	2401.1960	MHz	PASS
T2 99%	---	2483.500000	2401.6178	MHz	PASS



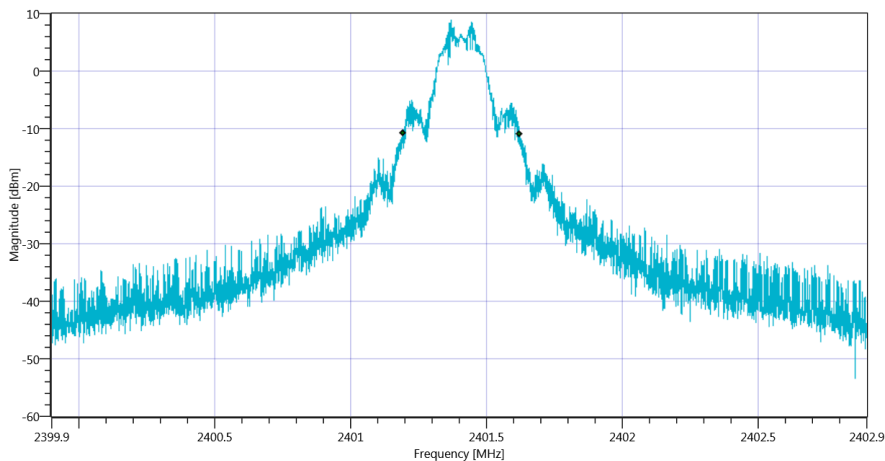
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_114451.png



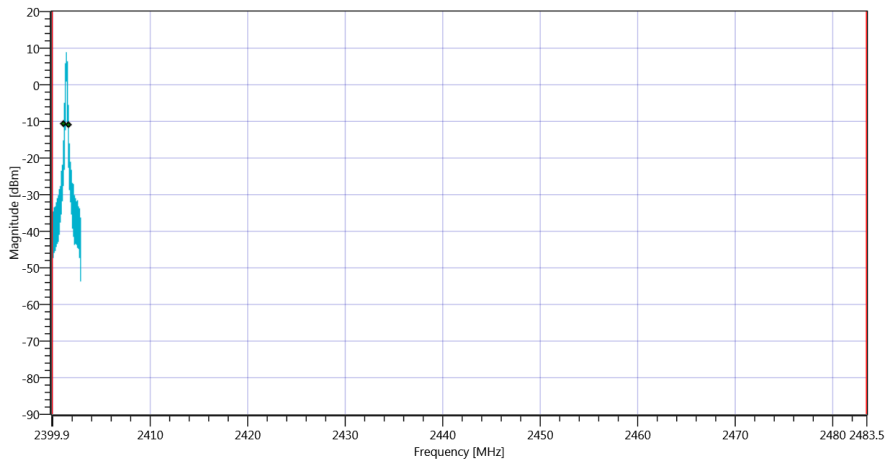
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_114455.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	429	kHz	INFO
T1 20dB	2400.000000	---	2401.1918	MHz	PASS
T2 20dB	---	2483.500000	2401.6208	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_114500.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_114504.png

TEST FINISHED		
General Verdict	06.08.2020 11:45:05 / RT: 43 s	PASS

2. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 12:28:12
Ambit Temp [°C] Humidity [rel%]	25.3 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20DB FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2403.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

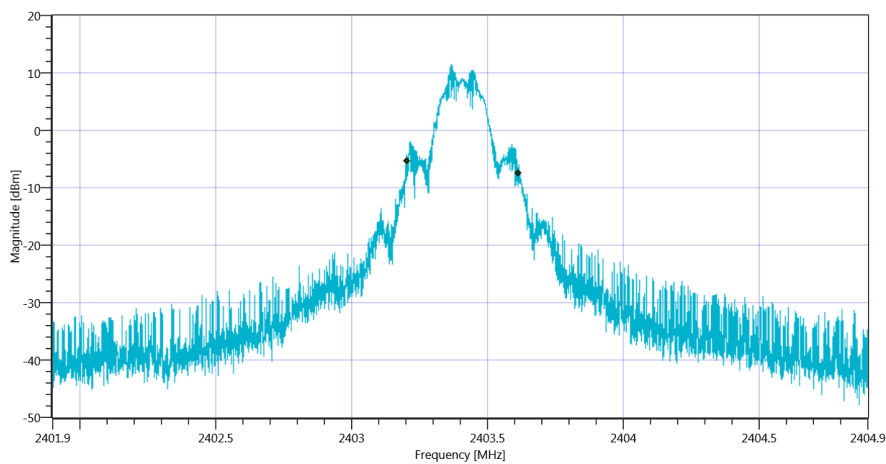
Test at TX 2403.4 MHz

READ SA SETTINGS:

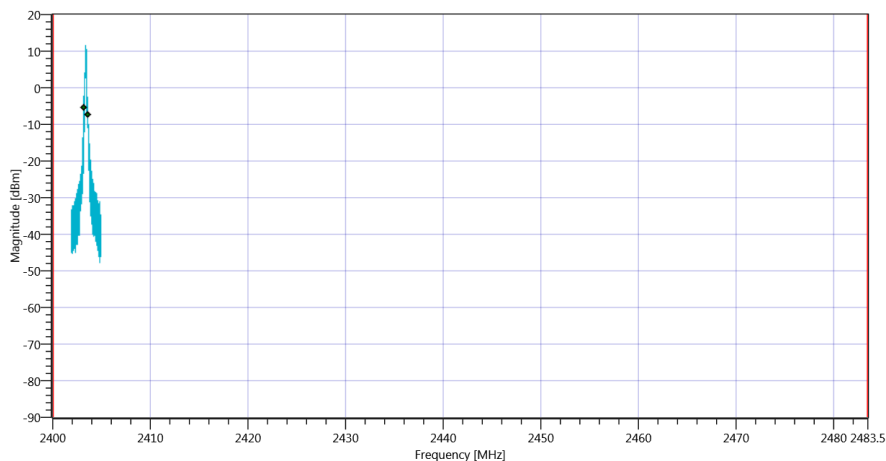
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.03 10.21 25
Start [MHz] Stop [MHz]	2401.900 2404.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	410	kHz	INFO
T1 99%	2400.000000	---	2403.2035	MHz	PASS
T2 99%	---	2483.500000	2403.6133	MHz	PASS



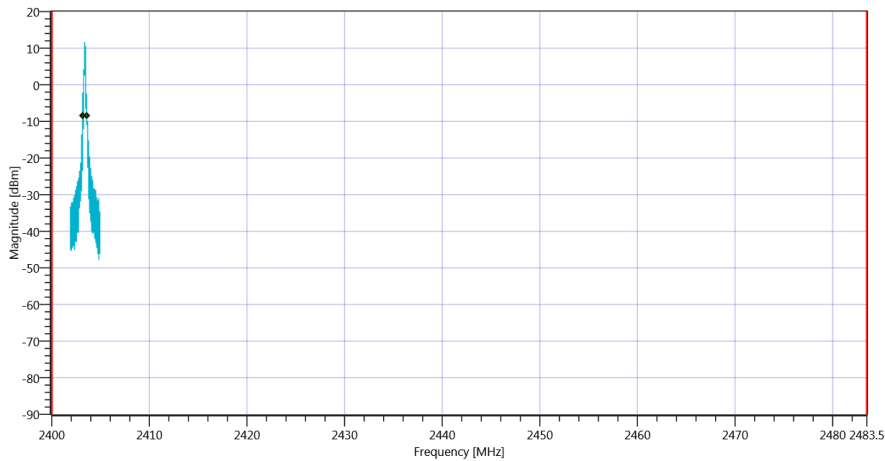
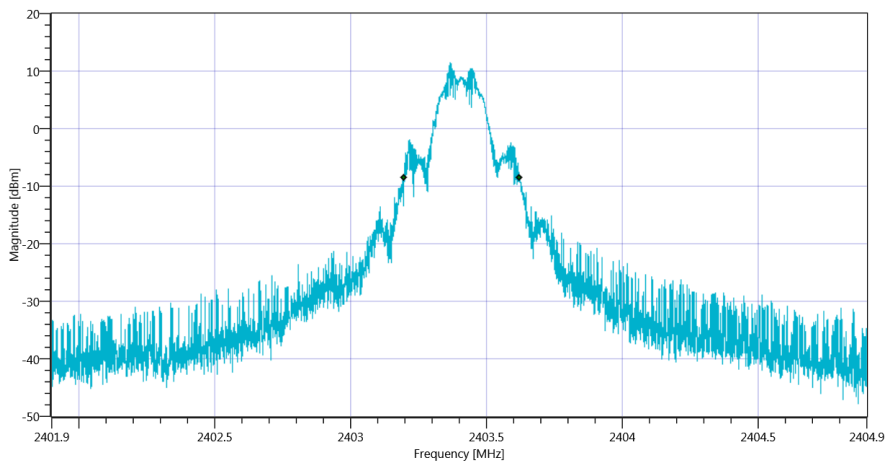
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_122841.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_122845.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	426	kHz	INFO
T1 20dB	2400.000000	---	2403.1978	MHz	PASS
T2 20dB	---	2483.500000	2403.6235	MHz	PASS



TEST FINISHED

General Verdict

06.08.2020 12:28:56 / RT: 43 s

PASS

3. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 13:03:39
Ambit Temp [°C] Humidity [rel%]	25.4 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20DB FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2404.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

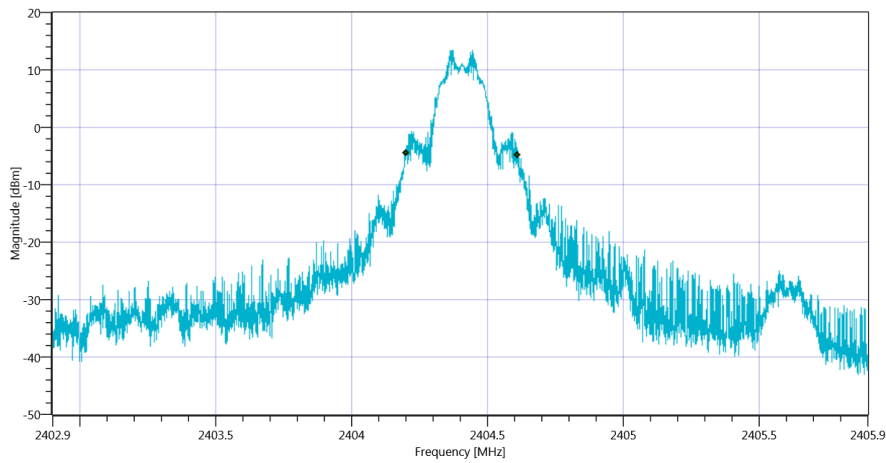
Test at TX 2404.4 MHz

READ SA SETTINGS:

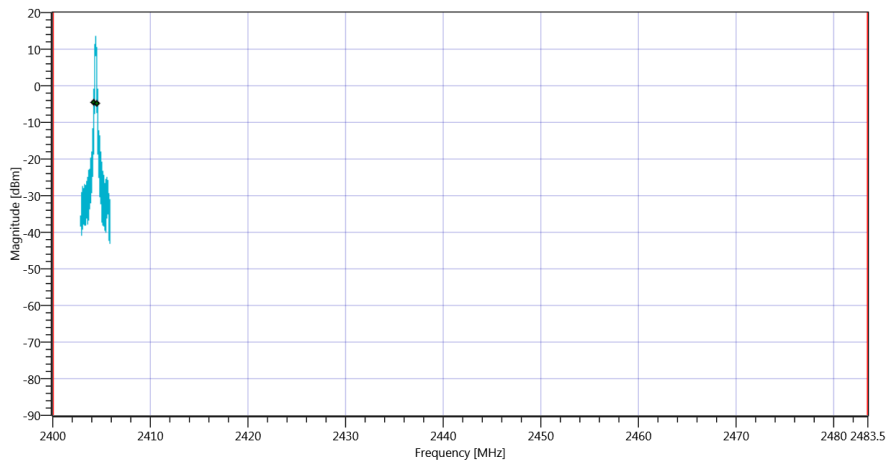
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	19.10 10.21 25
Start [MHz] Stop [MHz]	2402.900 2405.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	410	kHz	INFO
T1 99%	2400.000000	---	2404.2020	MHz	PASS
T2 99%	---	2483.500000	2404.6118	MHz	PASS



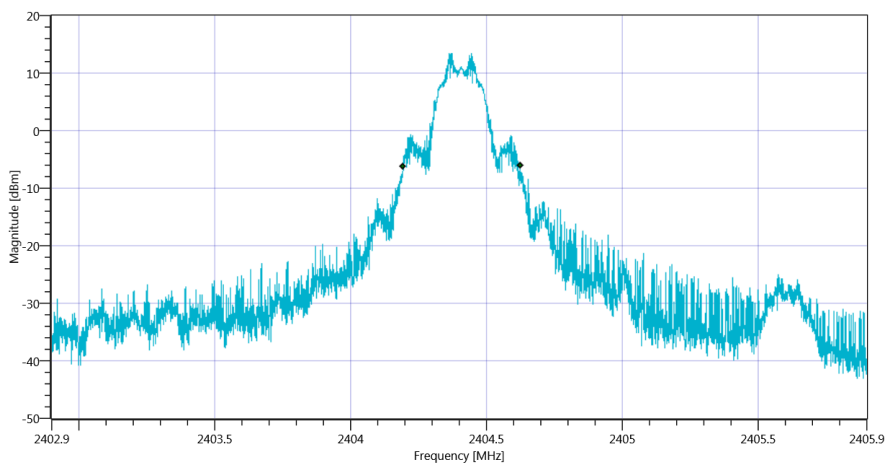
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_130407.png



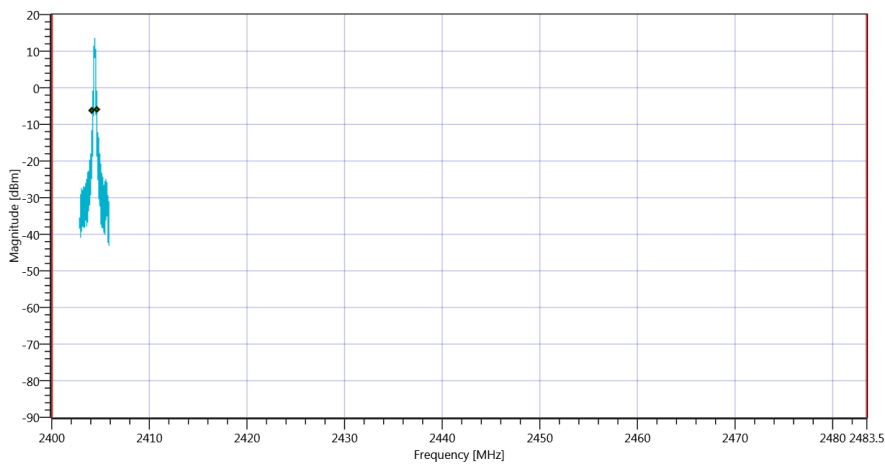
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_130412.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	431	kHz	INFO
T1 20dB	2400.000000	---	2404.1936	MHz	PASS
T2 20dB	---	2483.500000	2404.6244	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_130417.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_130421.png

TEST FINISHED		
General Verdict	06.08.2020 13:04:22 / RT: 43 s	PASS

4. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 13:30:30
Ambit Temp [°C] Humidity [rel%]	25.6 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20DB FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2412.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

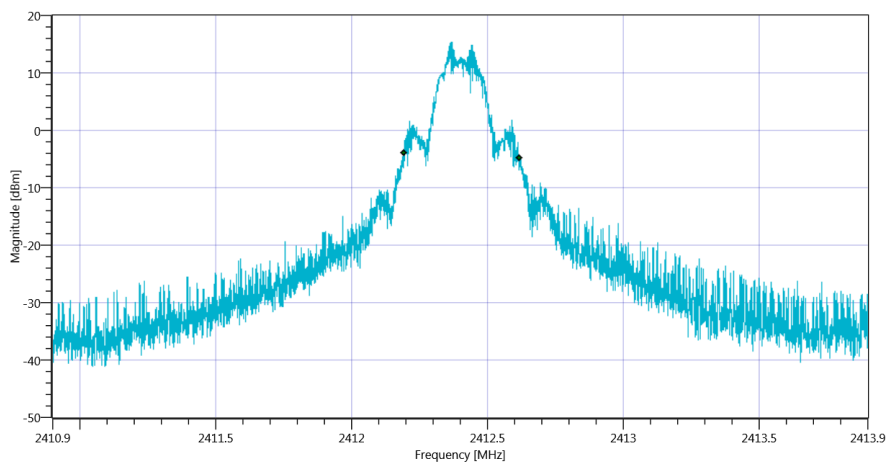
Test at TX 2412.4 MHz

READ SA SETTINGS:

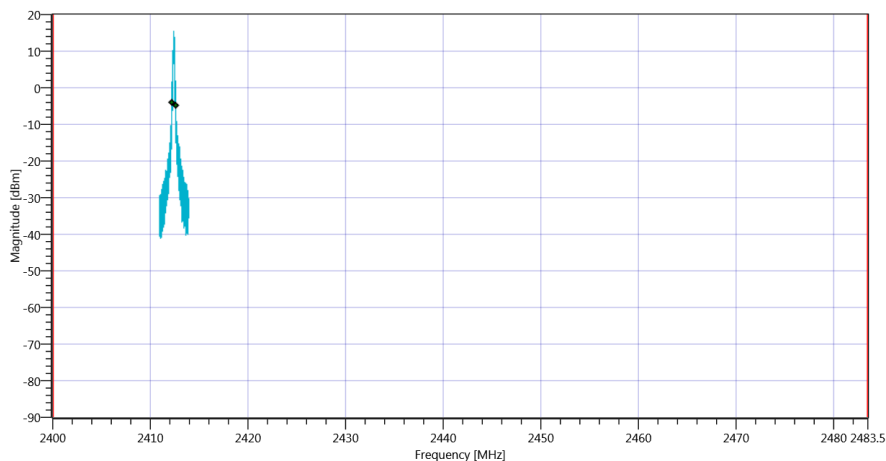
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.73 10.23 30
Start [MHz] Stop [MHz]	2410.900 2413.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	424	kHz	INFO
T1 99%	2400.000000	---	2412.1930	MHz	PASS
T2 99%	---	2483.500000	2412.6166	MHz	PASS



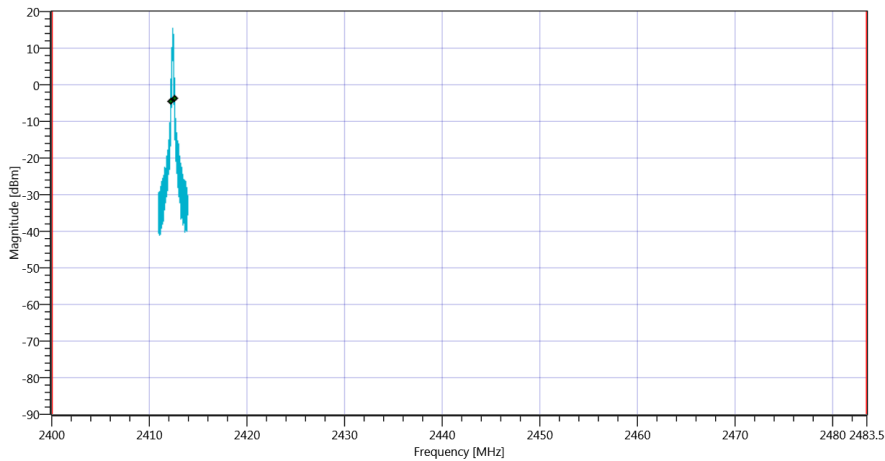
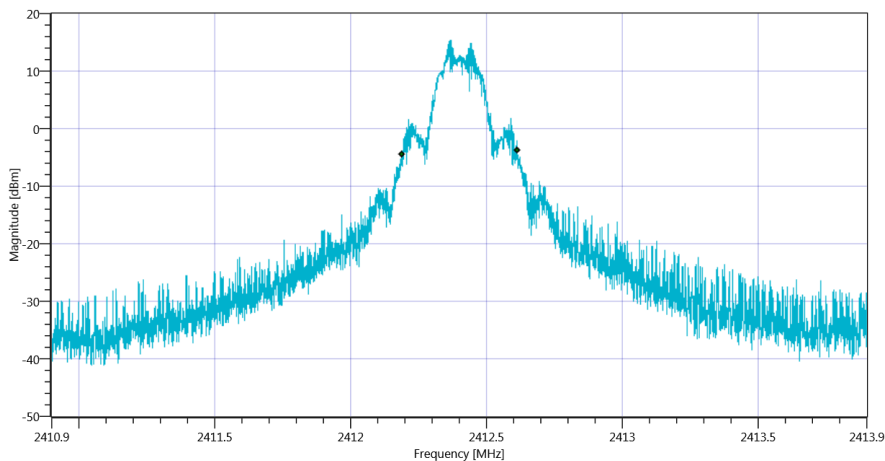
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_133100.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_133104.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	425	kHz	INFO
T1 20dB	2400.000000	---	2412.1888	MHz	PASS
T2 20dB	---	2483.500000	2412.6142	MHz	PASS



TEST FINISHED		
General Verdict	06.08.2020 13:31:15 / RT: 44 s	PASS

5. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 13:52:01
Ambit Temp [°C] Humidity [rel%]	25.5 37
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20DB FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	True Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

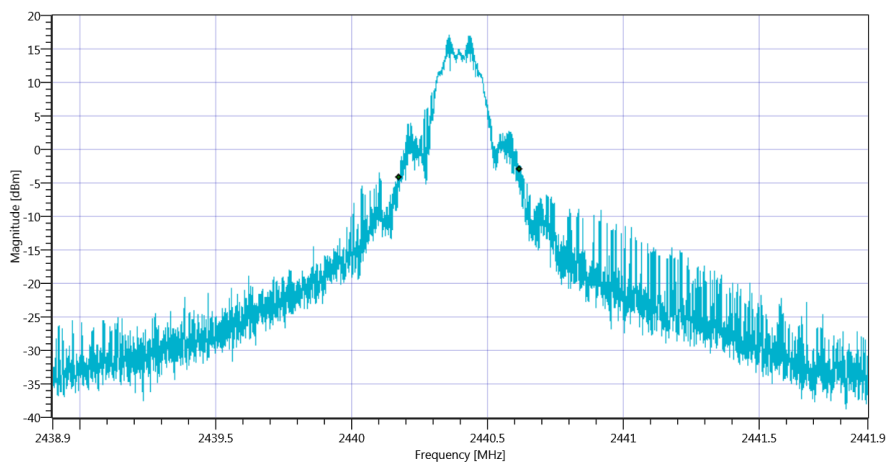
Test at TX 2440.4 MHz

READ SA SETTINGS:

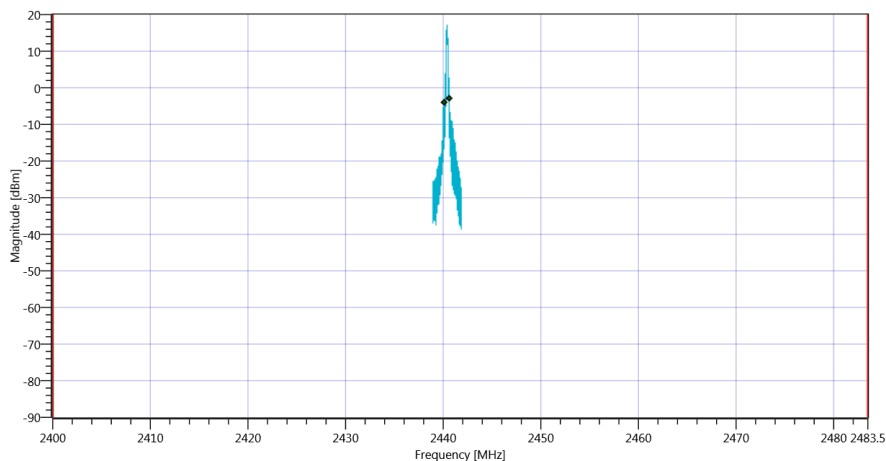
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.55 10.29 30
Start [MHz] Stop [MHz]	2438.900 2441.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	442	kHz	INFO
T1 99%	2400.000000	---	2440.1762	MHz	PASS
T2 99%	---	2483.500000	2440.6184	MHz	PASS



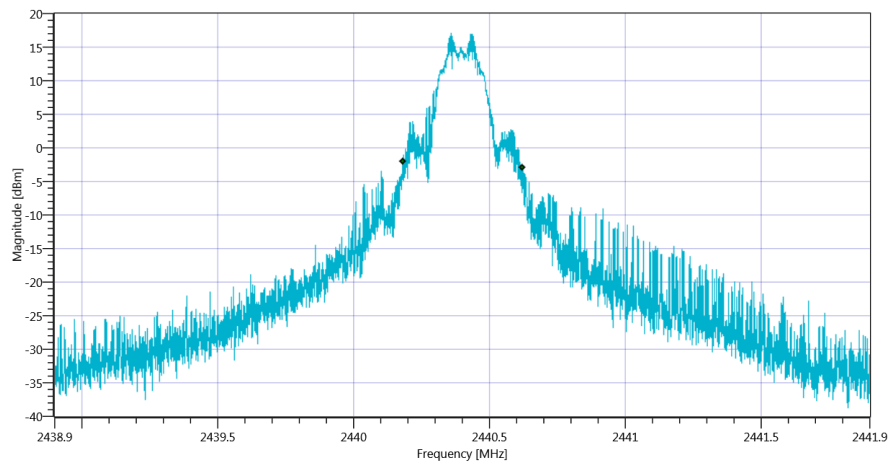
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_135229.png



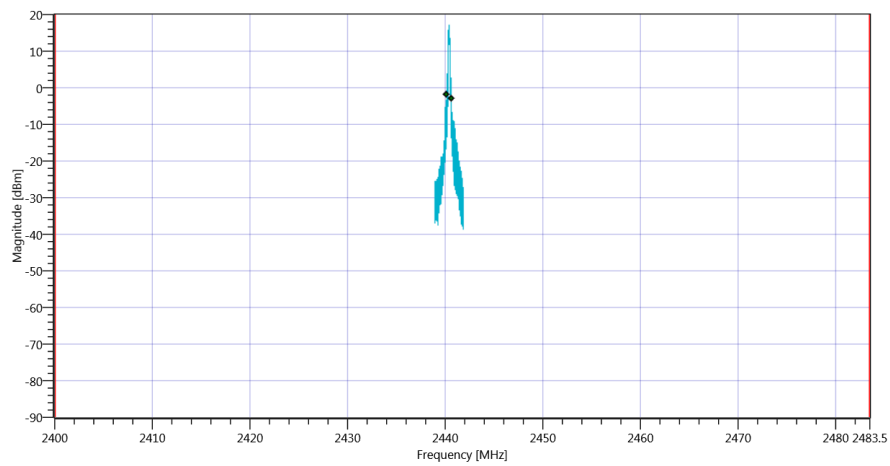
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_135233.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	442	kHz	INFO
T1 20dB	2400.000000	---	2440.1810	MHz	PASS
T2 20dB	---	2483.500000	2440.6229	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_135239.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_135243.png

TEST FINISHED

General Verdict

06.08.2020 13:52:44 / RT: 43 s

PASS

6. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 14:05:16
Ambit Temp [°C] Humidity [rel%]	25.4 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20DB FHSS - Generic 2G4
Add. Information	

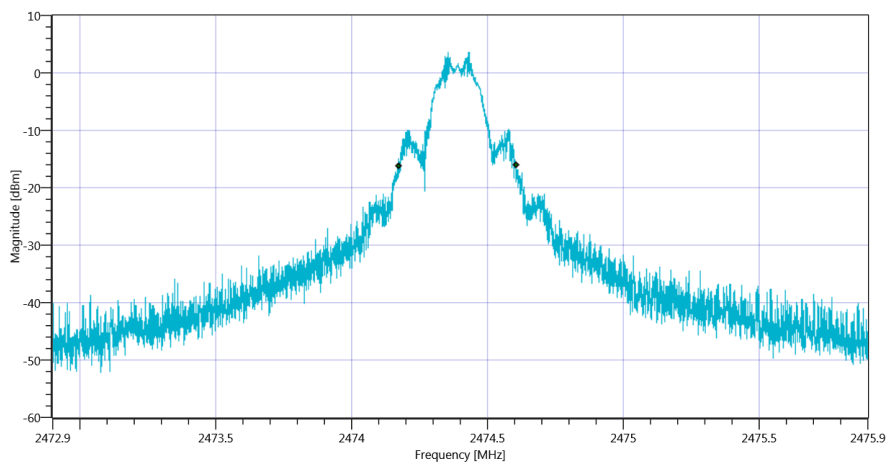
Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2474.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

Test at TX 2474.4 MHz

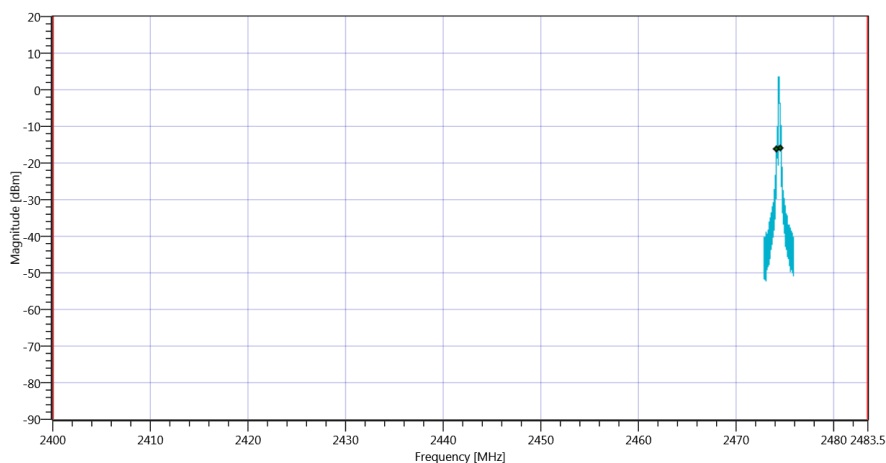
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	9.20 10.35 15
Start [MHz] Stop [MHz]	2472.900 2475.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	430	kHz	INFO
T1 99%	2400.000000	---	2474.1753	MHz	PASS
T2 99%	---	2483.500000	2474.6052	MHz	PASS

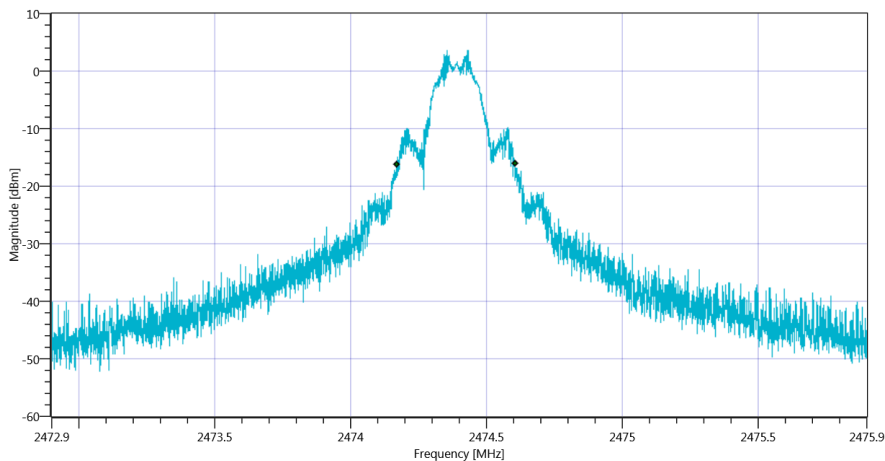


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_140546.png

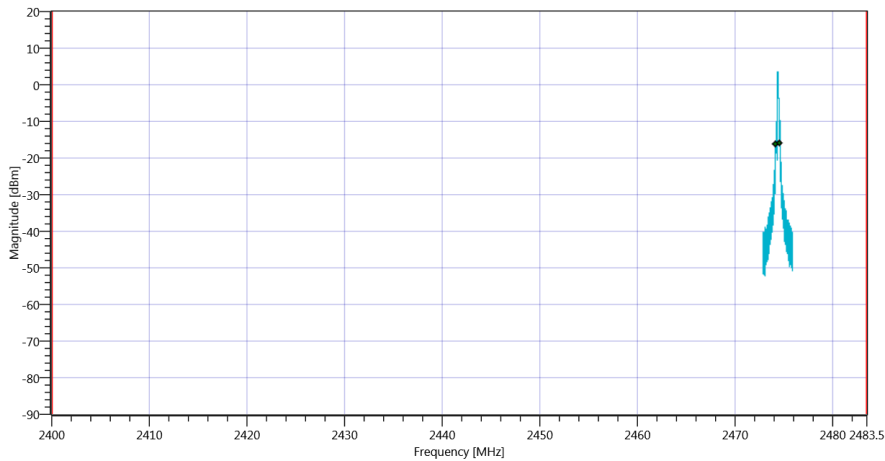


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_140550.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	435	kHz	INFO
T1 20dB	2400.000000	---	2474.1699	MHz	PASS
T2 20dB	---	2483.500000	2474.6052	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_140556.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_140600.png

TEST FINISHED		
General Verdict	06.08.2020 14:06:01 / RT: 44 s	PASS

7. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 14:18:15
Ambit Temp [°C] Humidity [rel%]	25.5 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20DB FHSS - Generic 2G4
Add. Information	

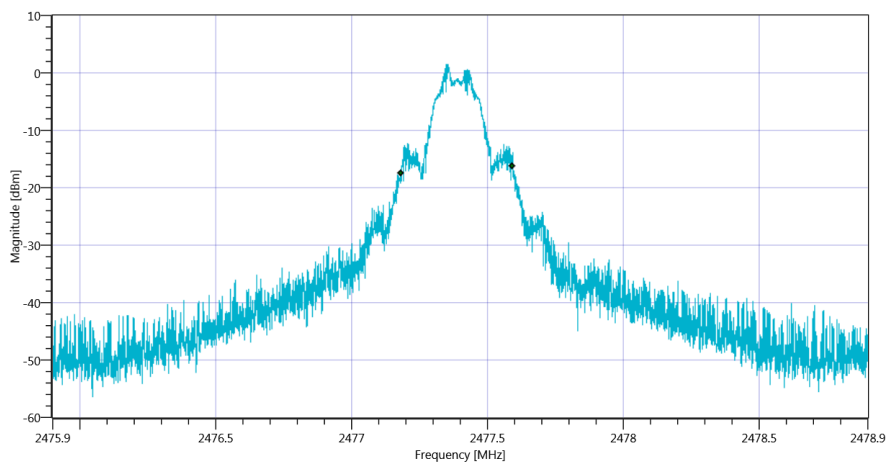
Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2477.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

Test at TX 2477.4 MHz

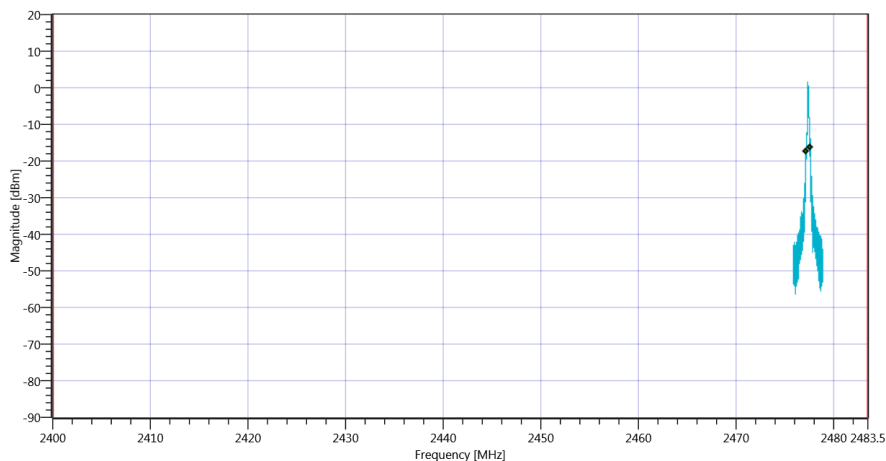
READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.02 10.35 15
Start [MHz] Stop [MHz]	2475.900 2478.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	412	kHz	INFO
T1 99%	2400.000000	---	2477.1819	MHz	PASS
T2 99%	---	2483.500000	2477.5935	MHz	PASS

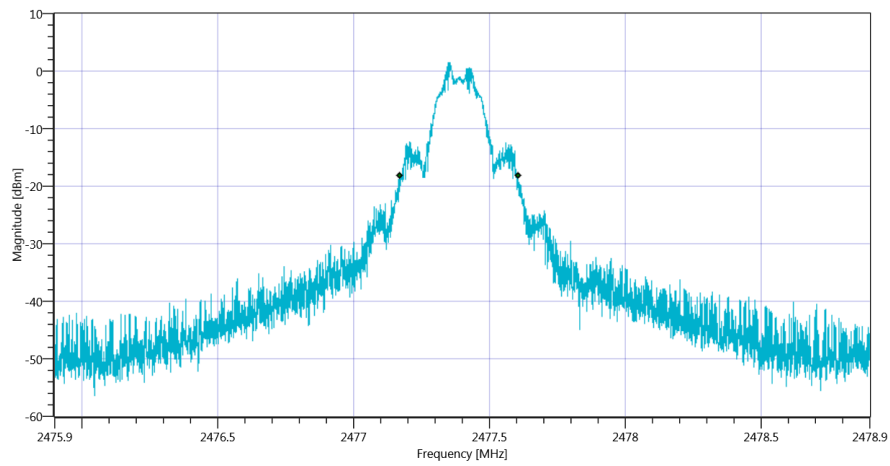


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_141844.png

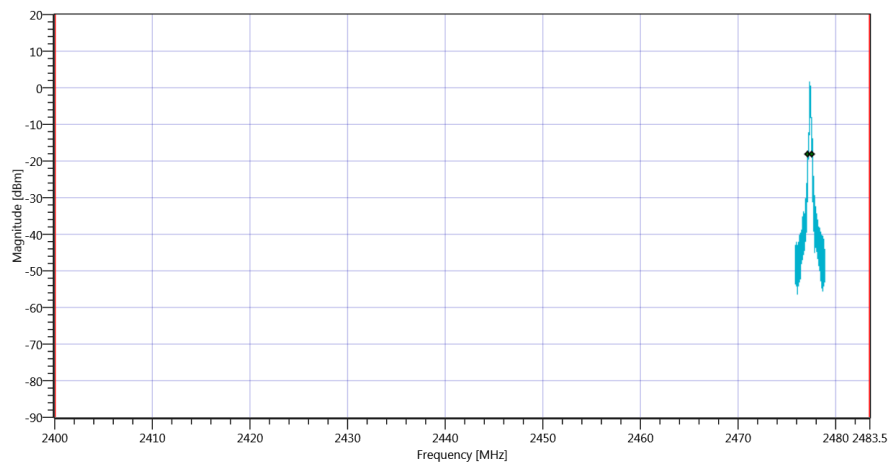


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_141848.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	435	kHz	INFO
T1 20dB	2400.000000	---	2477.1705	MHz	PASS
T2 20dB	---	2483.500000	2477.6052	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_141854.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_141858.png

TEST FINISHED

General Verdict

06.08.2020 14:18:59 / RT: 43 s

PASS

8. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 14:47:28
Ambit Temp [°C] Humidity [rel%]	25.7 39
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20DB FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2478.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

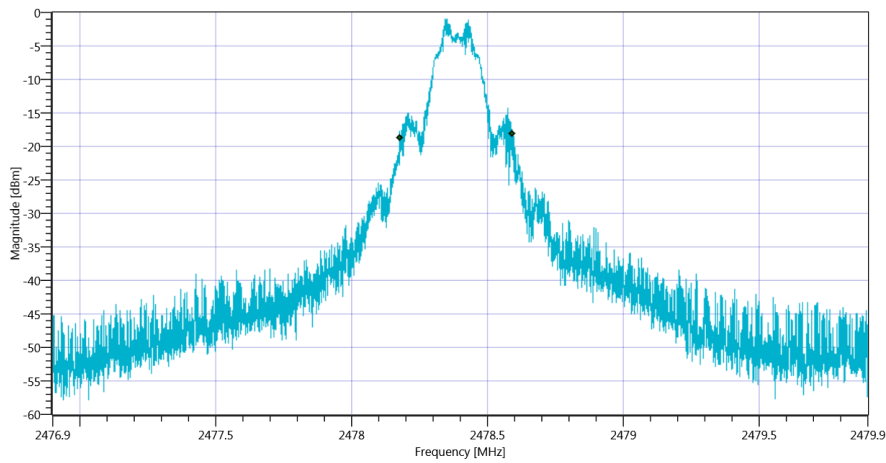
Test at TX 2478.4 MHz

READ SA SETTINGS:

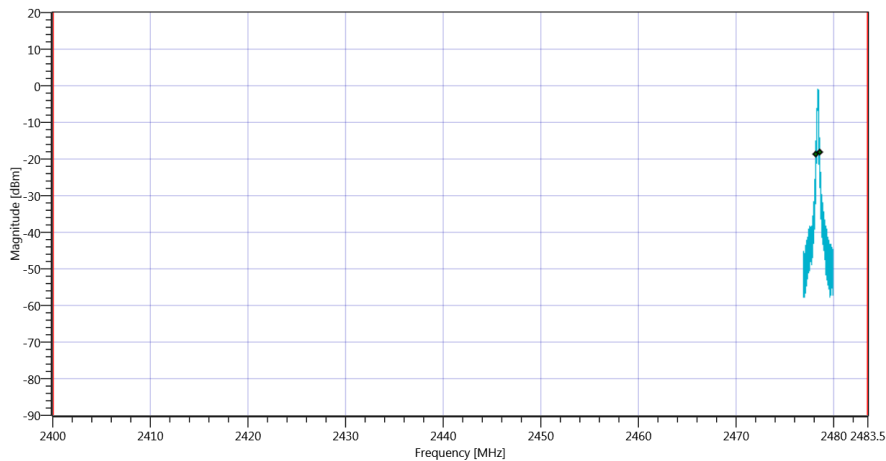
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	4.85 10.35 10
Start [MHz] Stop [MHz]	2476.900 2479.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	413	kHz	INFO
T1 99%	2400.000000	---	2478.1792	MHz	PASS
T2 99%	---	2483.500000	2478.5926	MHz	PASS



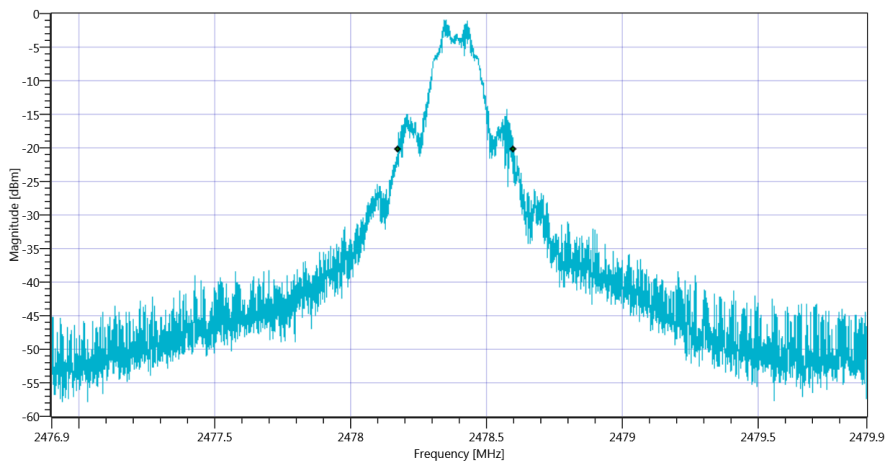
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_144758.png



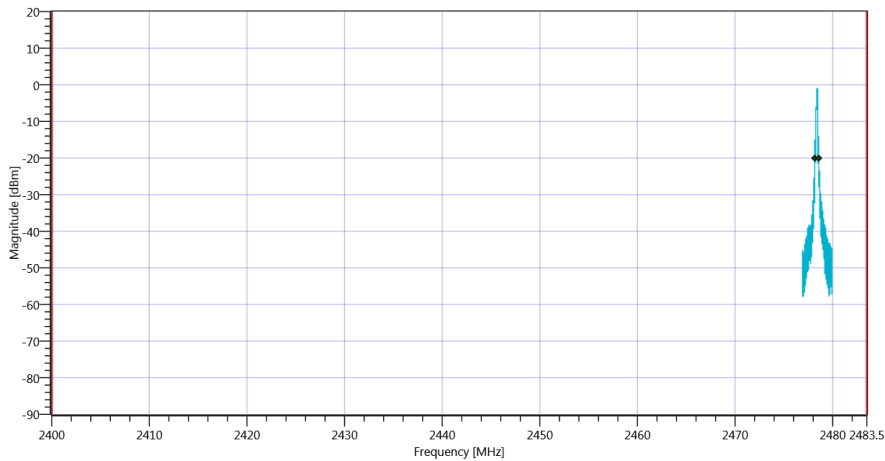
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_144802.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	426	kHz	INFO
T1 20dB	2400.000000	---	2478.1747	MHz	PASS
T2 20dB	---	2483.500000	2478.6004	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_144808.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_144812.png

TEST FINISHED		
General Verdict	06.08.2020 14:48:13 / RT: 44 s	PASS

9. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 15:00:44
Ambit Temp [°C] Humidity [rel%]	25.6 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20DB FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2479.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

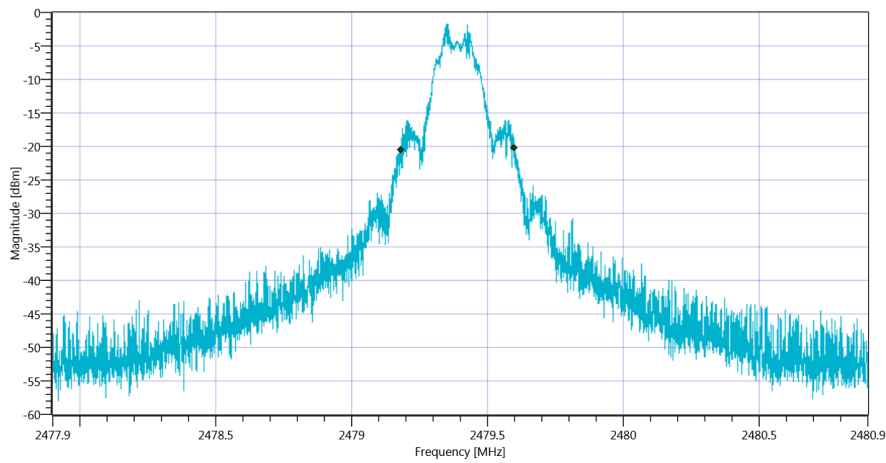
Test at TX 2479.4 MHz

READ SA SETTINGS:

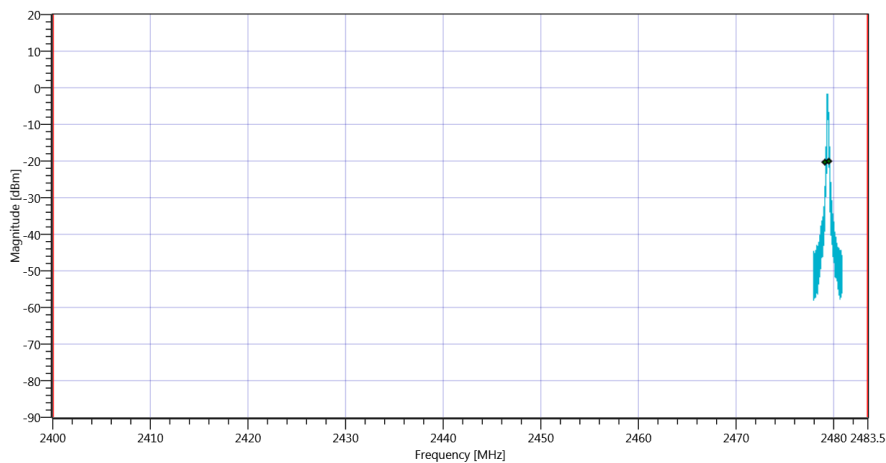
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.60 10.35 10
Start [MHz] Stop [MHz]	2477.900 2480.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	418	kHz	INFO
T1 99%	2400.000000	---	2479.1807	MHz	PASS
T2 99%	---	2483.500000	2479.5989	MHz	PASS



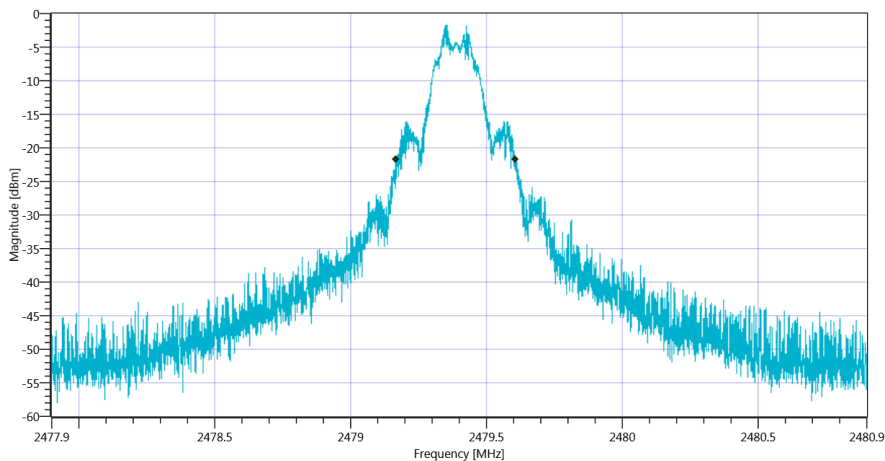
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_06082020_150113.png



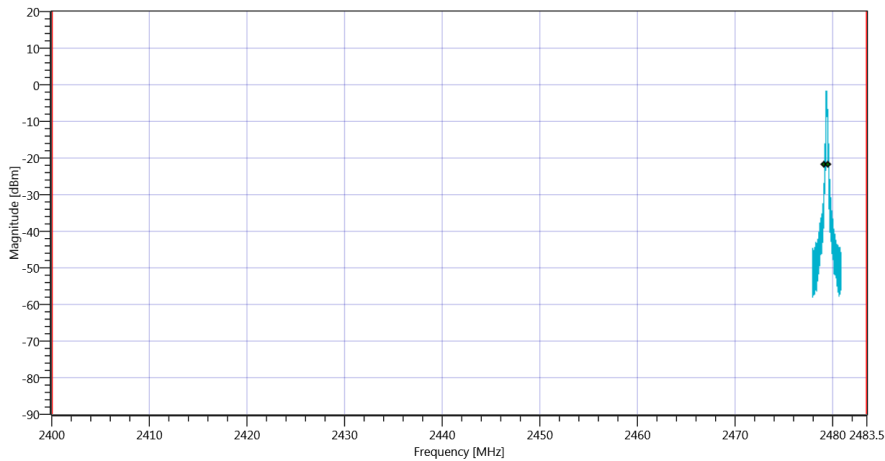
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_150117.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	441	kHz	INFO
T1 20dB	2400.000000	---	2479.1669	MHz	PASS
T2 20dB	---	2483.500000	2479.6076	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_150123.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_150127.png

TEST FINISHED		
General Verdict	06.08.2020 15:01:28 / RT: 44 s	PASS

10. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	06.08.2020 15:21:13
Ambit Temp [°C] Humidity [rel%]	25.6 37
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20DB FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

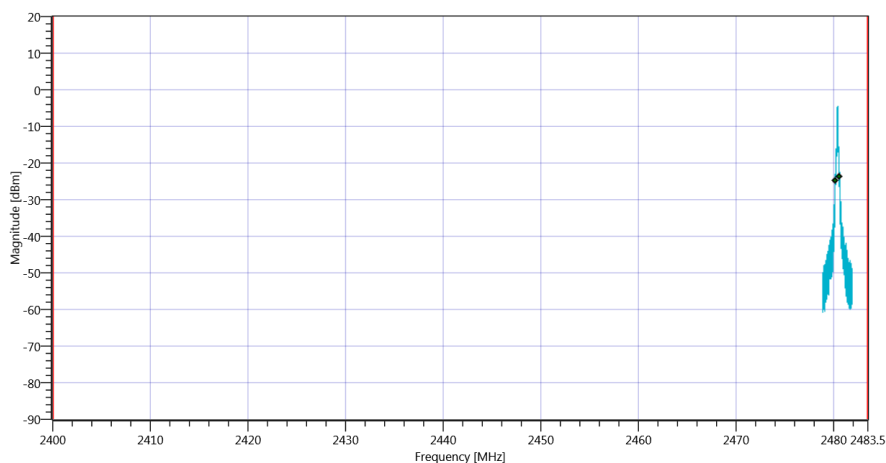
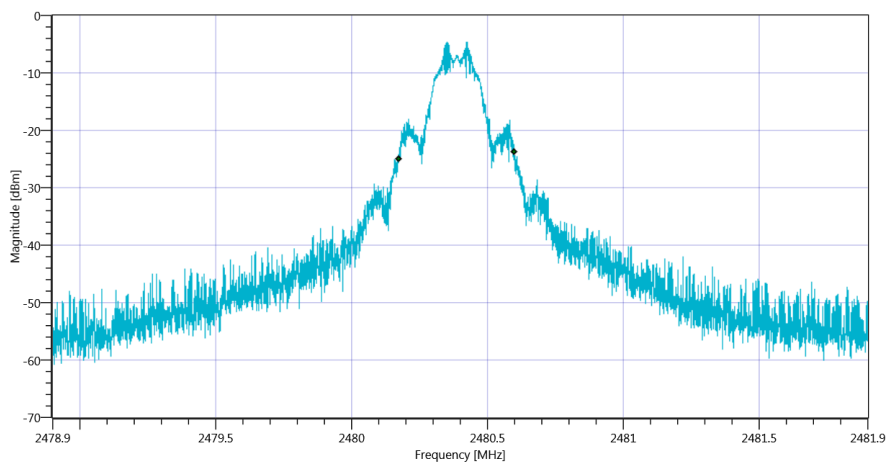
Test at TX 2480.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.83 10.36 10
Start [MHz] Stop [MHz]	2478.900 2481.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

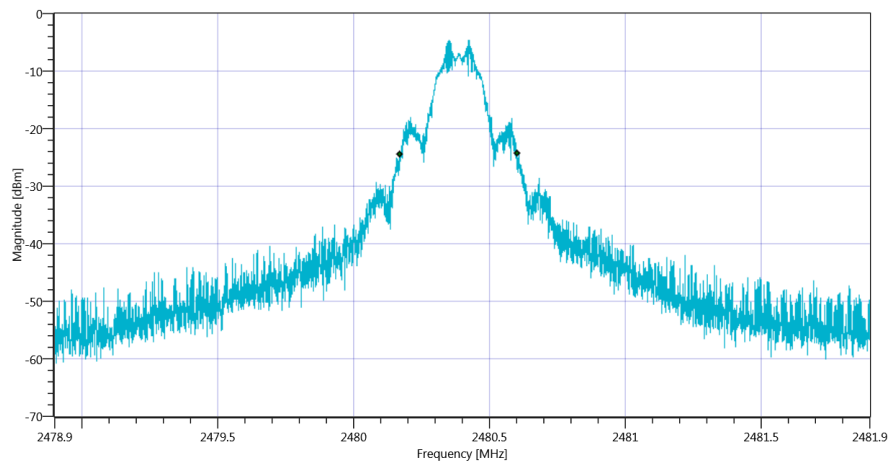
RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	421	kHz	INFO
T1 99%	2400.000000	---	2480.1762	MHz	PASS
T2 99%	---	2483.500000	2480.5977	MHz	PASS

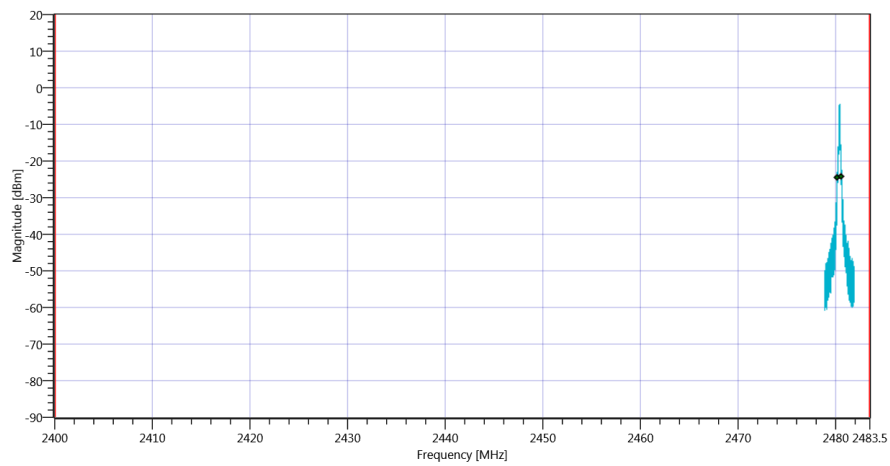


RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	430	kHz	INFO
T1 20dB	2400.000000	---	2480.1717	MHz	PASS
T2 20dB	---	2483.500000	2480.6016	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_06082020_152151.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_06082020_152155.png

TEST FINISHED

General Verdict

06.08.2020 15:21:56 / RT: 43 s

PASS

11. FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4

Test References	
TC Start	07.08.2020 09:46:26
Ambit Temp [°C] Humidity [rel%]	29.7 37
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2
My Description	FCC 15.247 Bandwidth 99PCT - 20DB FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2402.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

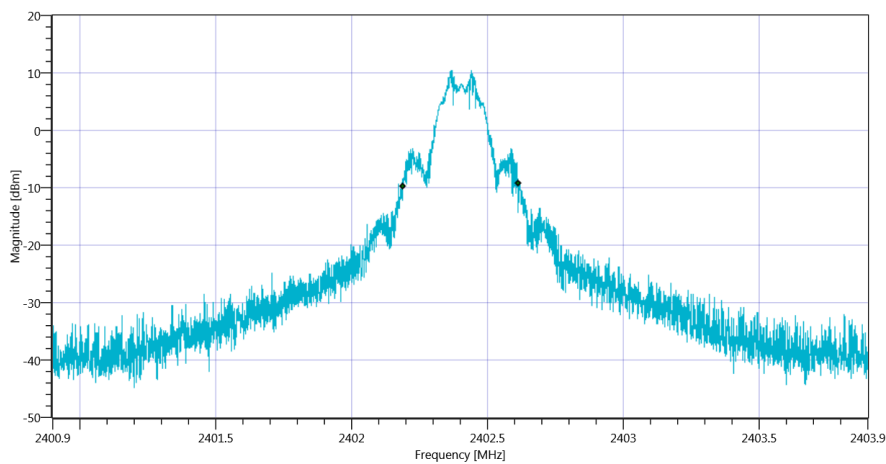
Test at TX 2402.4 MHz

READ SA SETTINGS:

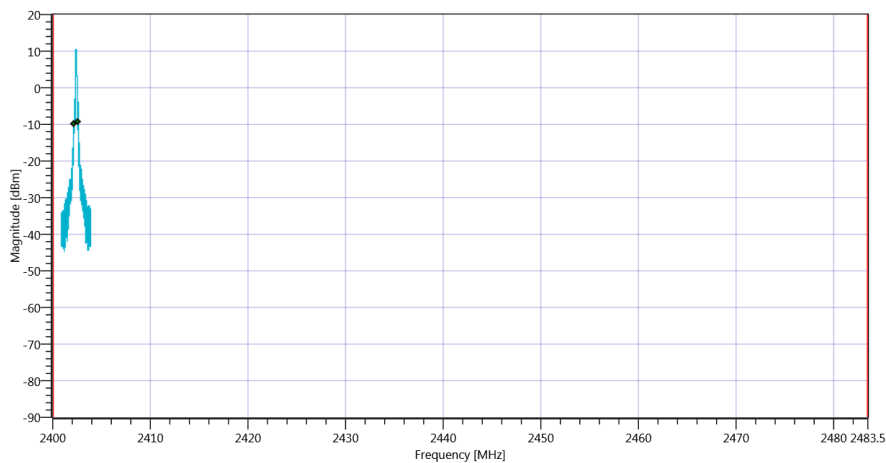
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.97 10.21 25
Start [MHz] Stop [MHz]	2400.900 2403.900
RBW [MHz] VBW [MHz]	0.030000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 200 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	425	kHz	INFO
T1 99%	2400.000000	---	2402.1903	MHz	PASS
T2 99%	---	2483.500000	2402.6154	MHz	PASS



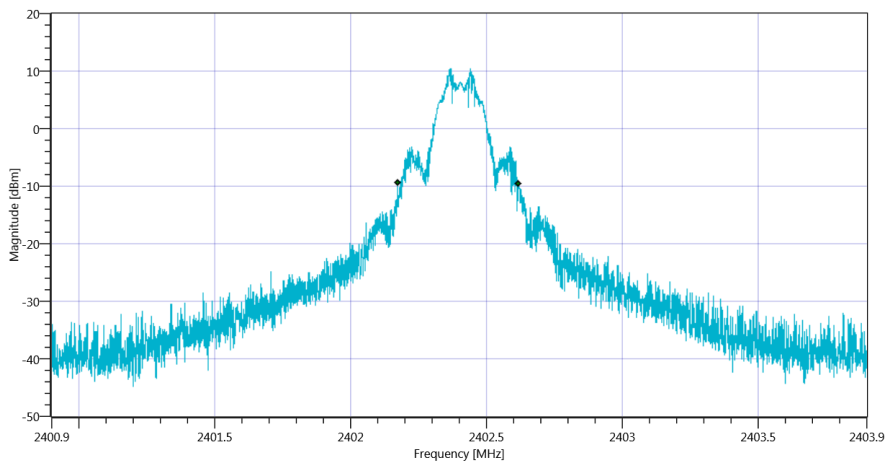
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_07082020_094654.png



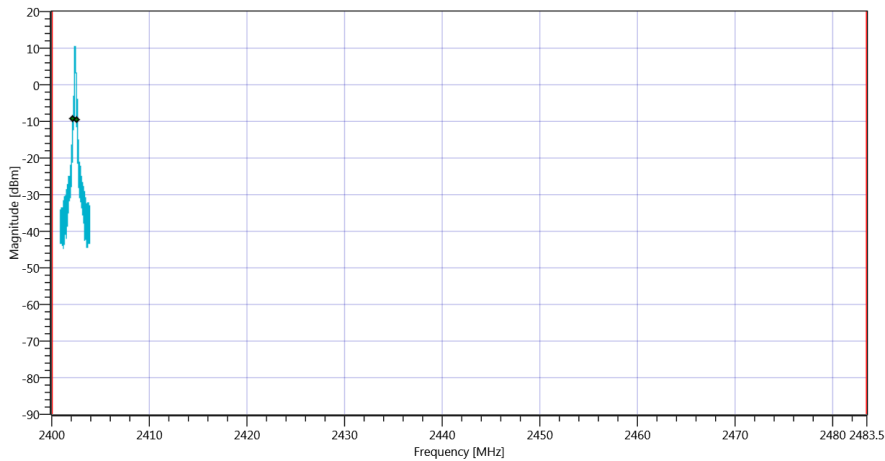
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_094658.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	445	kHz	INFO
T1 20dB	2400.000000	---	2402.1729	MHz	PASS
T2 20dB	---	2483.500000	2402.6181	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_07082020_094704.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_07082020_094708.png

TEST FINISHED		
General Verdict	07.08.2020 09:47:08 / RT: 42 s	PASS

12. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	06.08.2020 11:34:08
Ambit Temp [°C] Humidity [rel%]	25.1 37
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

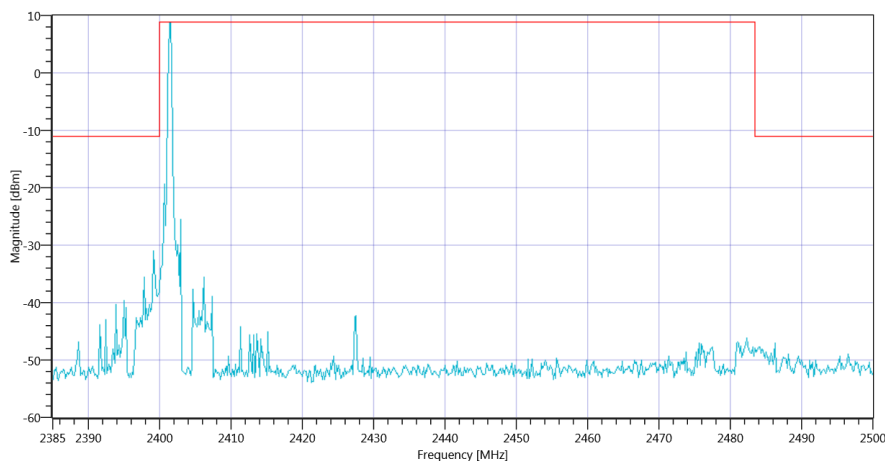
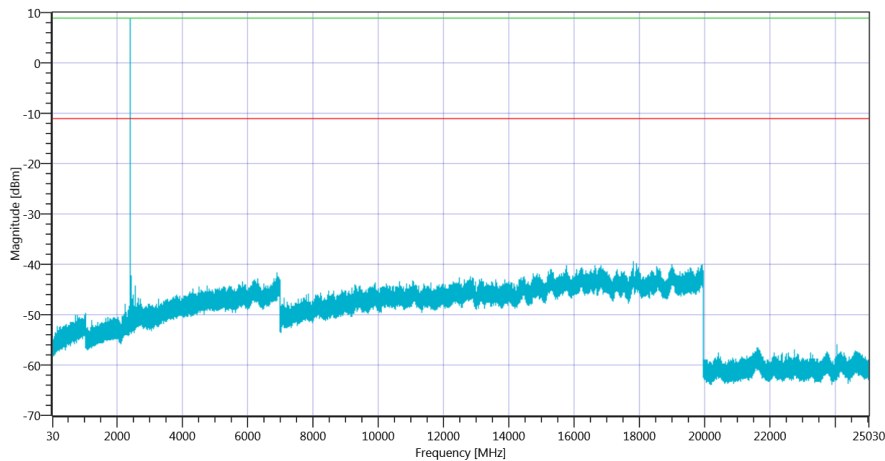
Test at TX 2401.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	9.31 0 25
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2401.33 MHz	---	---	8.87	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 2399.167 MHz	0	---	19.88	dB	INFO



TEST FINISHED

General Verdict 06.08.2020 11:44:18 / RT: 609 s

PASS

13. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	06.08.2020 12:17:58
Ambit Temp [°C] Humidity [rel%]	25.2 37
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2403.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

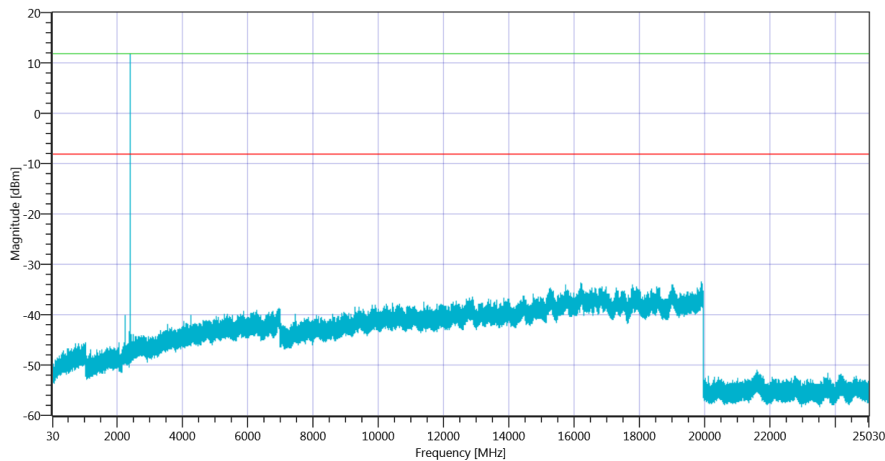
Test at TX 2403.4 MHz

READ SA SETTINGS:

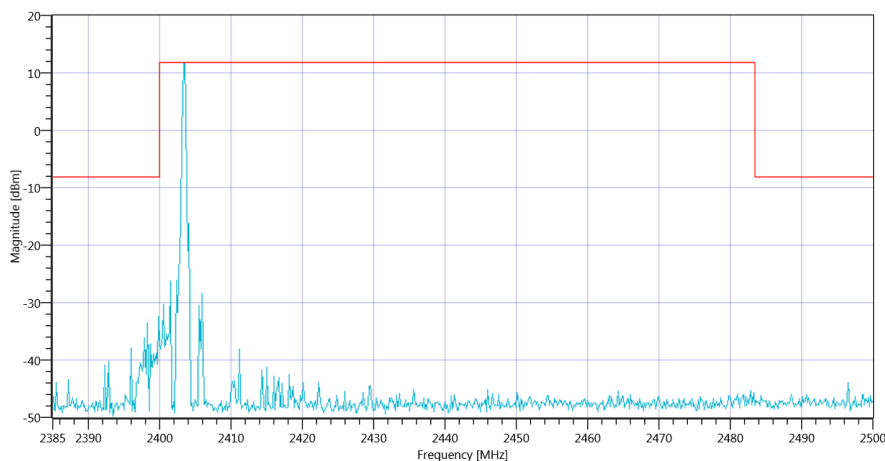
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.12 0 30
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2403.50 MHz	---	---	11.87	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 2399.833 MHz	0	---	24.34	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2403.4_06082020_122803.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2403.4_06082020_122806.png

TEST FINISHED

General Verdict 06.08.2020 12:28:07 / RT: 609 s

PASS

14. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	06.08.2020 12:53:25
Ambit Temp [°C] Humidity [rel%]	25.3 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2404.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

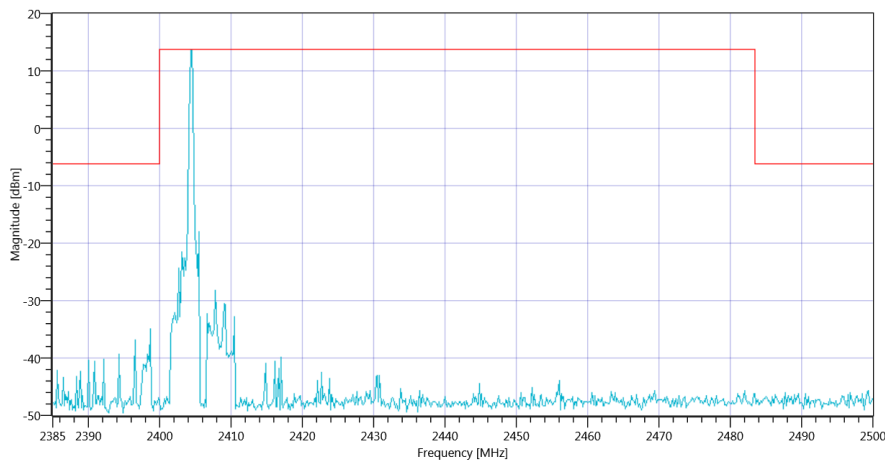
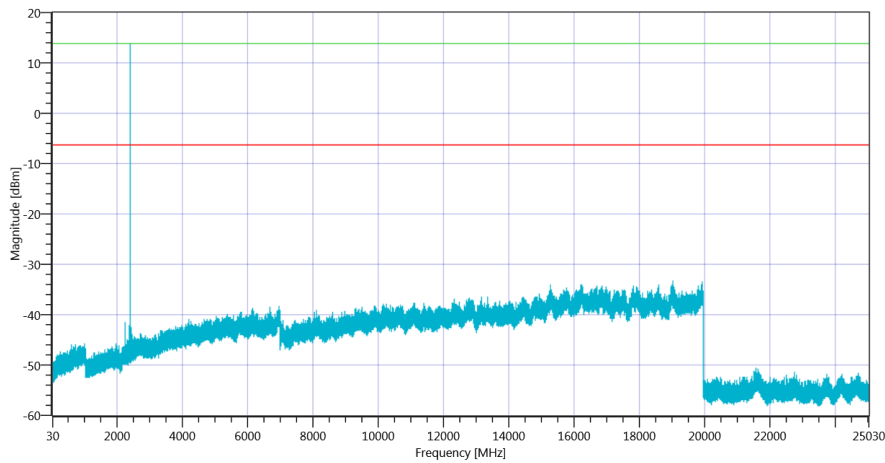
Test at TX 2404.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.18 0 30
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2404.50 MHz	---	---	13.76	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 19027.333 MHz	0	---	26.99	dB	INFO



TEST FINISHED

General Verdict 06.08.2020 13:03:35 / RT: 609 s

PASS

15. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	06.08.2020 13:20:16
Ambit Temp [°C] Humidity [rel%]	25.5 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2412.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

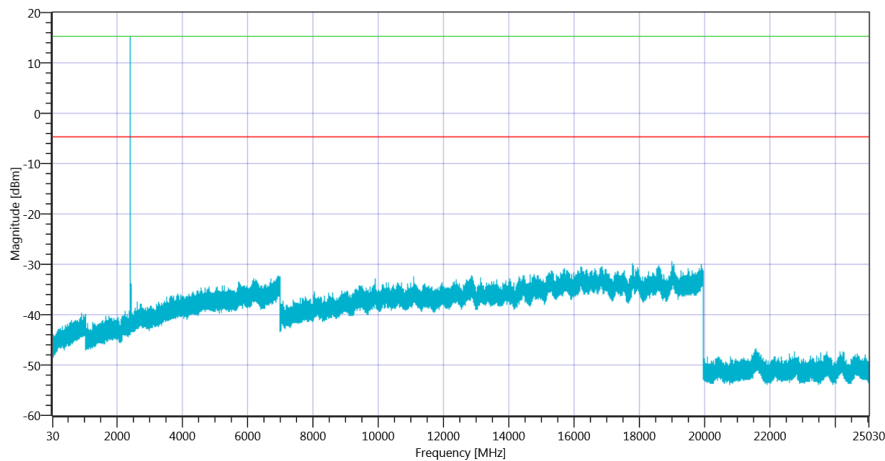
Test at TX 2412.4 MHz

READ SA SETTINGS:

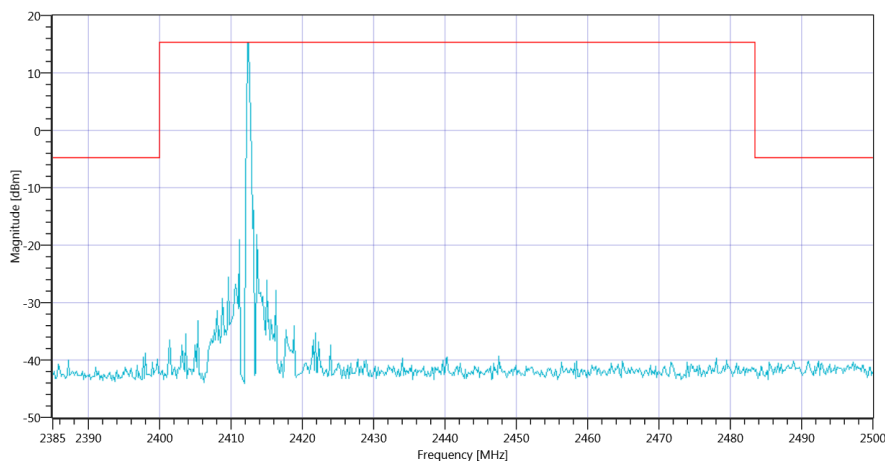
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.82 0 35
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2412.33 MHz	---	---	15.31	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 18995 MHz	0	---	24.75	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2412.4_06082020_133021.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2412.4_06082020_133024.png

TEST FINISHED

General Verdict 06.08.2020 13:30:26 / RT: 609 s

PASS

16. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	06.08.2020 13:41:46
Ambit Temp [°C] Humidity [rel%]	25.5 37
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	True Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

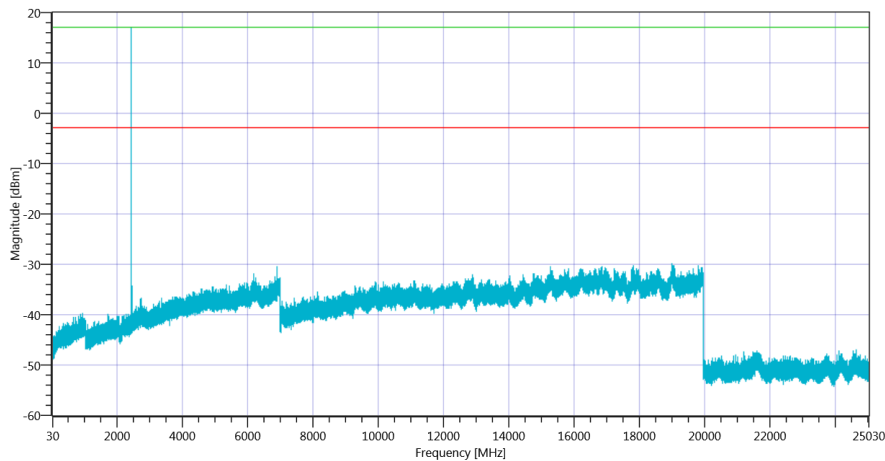
Test at TX 2440.4 MHz

READ SA SETTINGS:

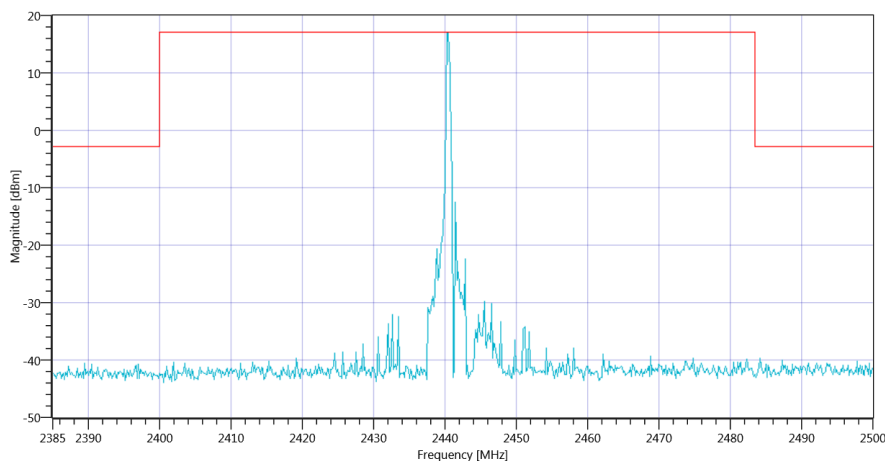
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.56 0 35
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2440.50 MHz	---	---	17.12	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 18999.667 MHz	0	---	27.06	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2440.4_06082020_135152.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2440.4_06082020_135154.png

TEST FINISHED

General Verdict 06.08.2020 13:51:56 / RT: 609 s

PASS

17. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	06.08.2020 13:55:02
Ambit Temp [°C] Humidity [rel%]	25.3 36
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2474.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

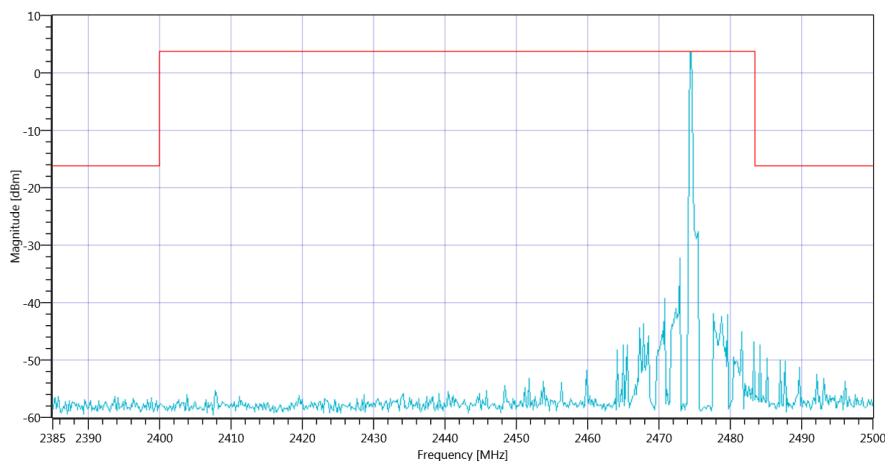
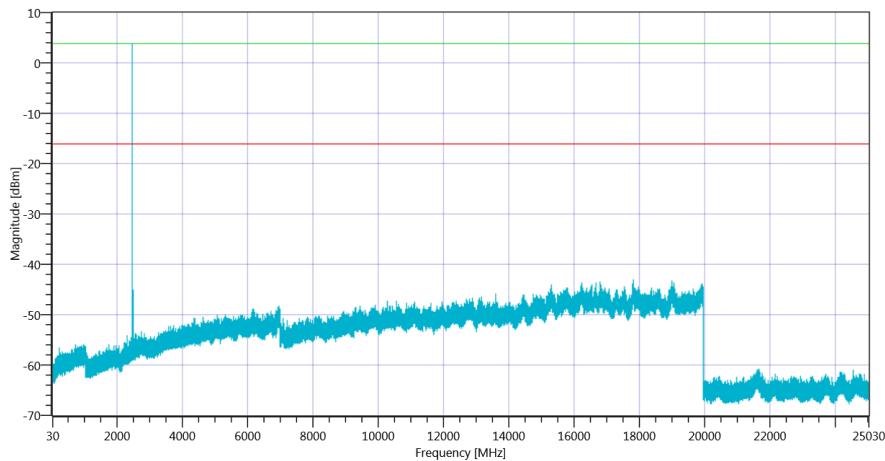
Test at TX 2474.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	4.33 0 20
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2474.50 MHz	---	---	3.82	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 17803.833 MHz	0	---	26.96	dB	INFO



TEST FINISHED

General Verdict 06.08.2020 14:05:12 / RT: 609 s

PASS

18. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	06.08.2020 14:08:01
Ambit Temp [°C] Humidity [rel%]	25.5 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2477.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

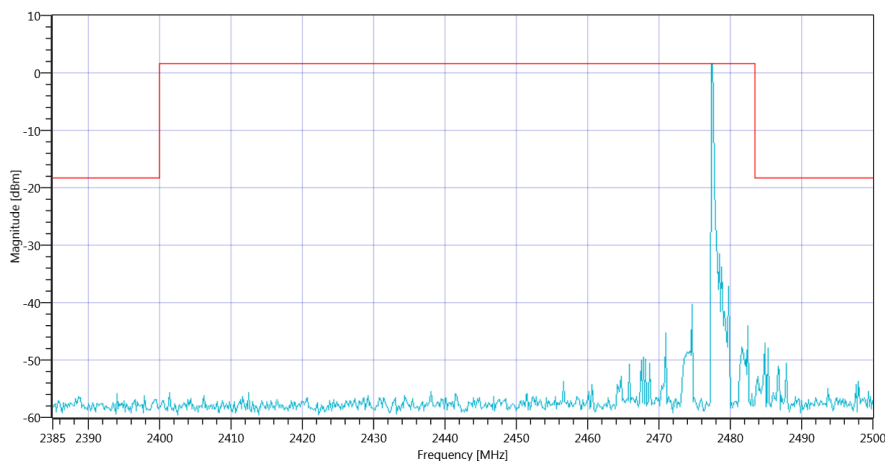
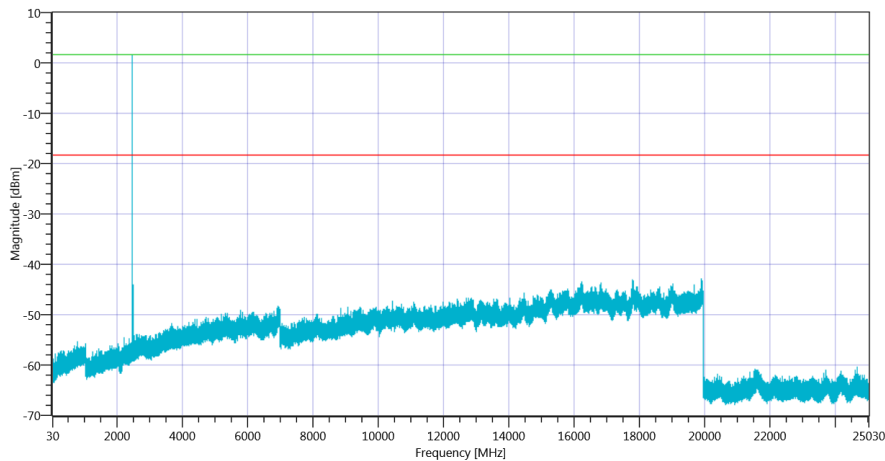
Test at TX 2477.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	2.23 0 20
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2477.50 MHz	---	---	1.62	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 19897.833 MHz	0	---	24.56	dB	INFO



TEST FINISHED

General Verdict 06.08.2020 14:18:11 / RT: 609 s

PASS

19. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	06.08.2020 14:37:14
Ambit Temp [°C] Humidity [rel%]	25.6 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2478.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

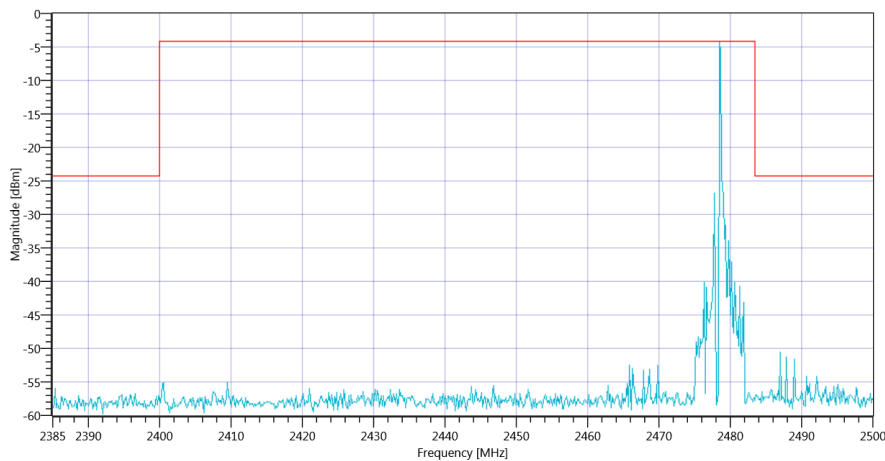
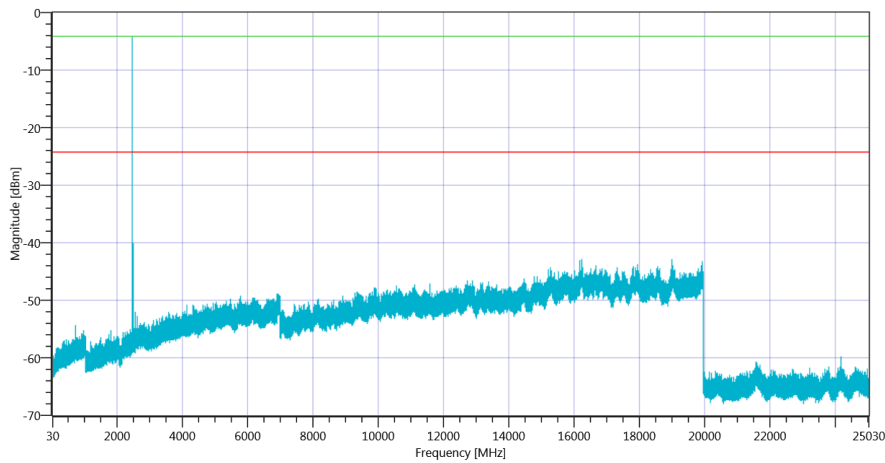
Test at TX 2478.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	0.09 0 20
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2478.50 MHz	---	---	-4.20	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 16238.5 MHz	0	---	18.81	dB	INFO



TEST FINISHED

General Verdict 06.08.2020 14:47:23 / RT: 609 s

PASS

20. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	06.08.2020 14:50:29
Ambit Temp [°C] Humidity [rel%]	25.7 39
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2479.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

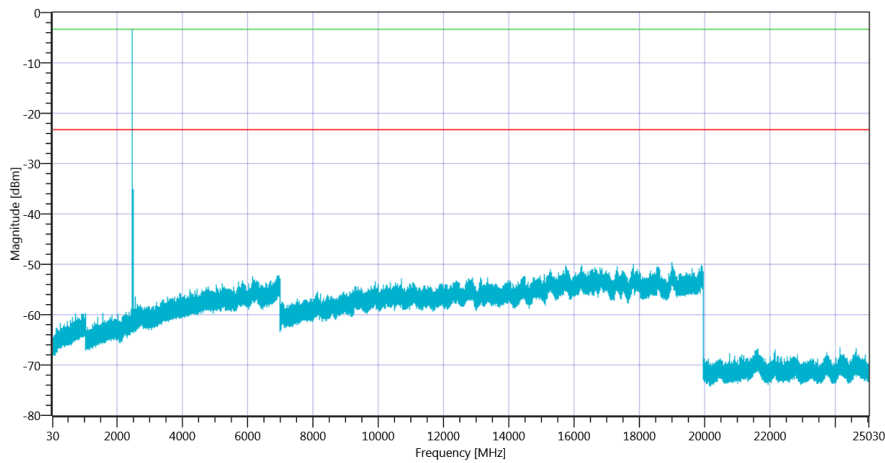
Test at TX 2479.4 MHz

READ SA SETTINGS:

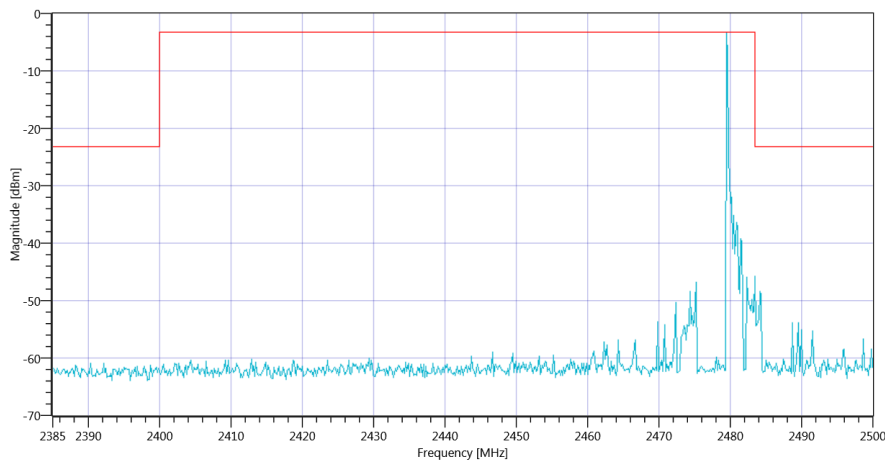
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-1.24 0 15
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2479.50 MHz	---	---	-3.23	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 2484.167 MHz	0	---	25.21	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2479.4_06082020_150035.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2479.4_06082020_150038.png

TEST FINISHED

General Verdict 06.08.2020 15:00:39 / RT: 610 s

PASS

21. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	06.08.2020 15:10:58
Ambit Temp [°C] Humidity [rel%]	25.6 39
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

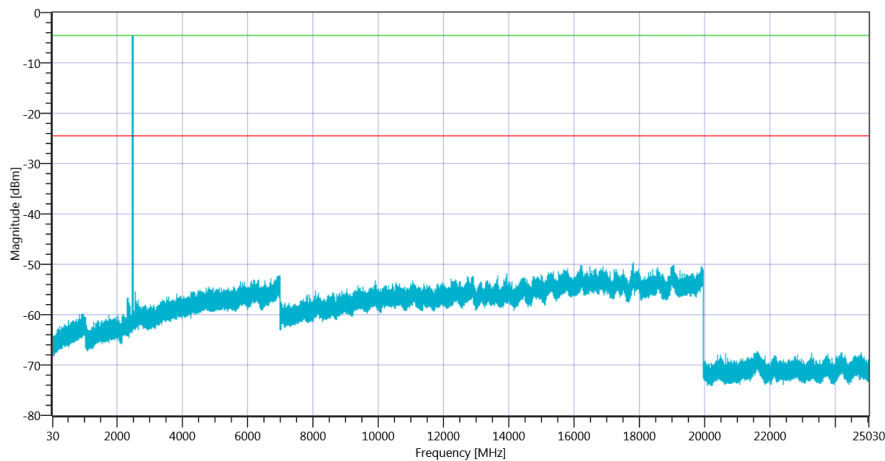
Test at TX 2480.4 MHz

READ SA SETTINGS:

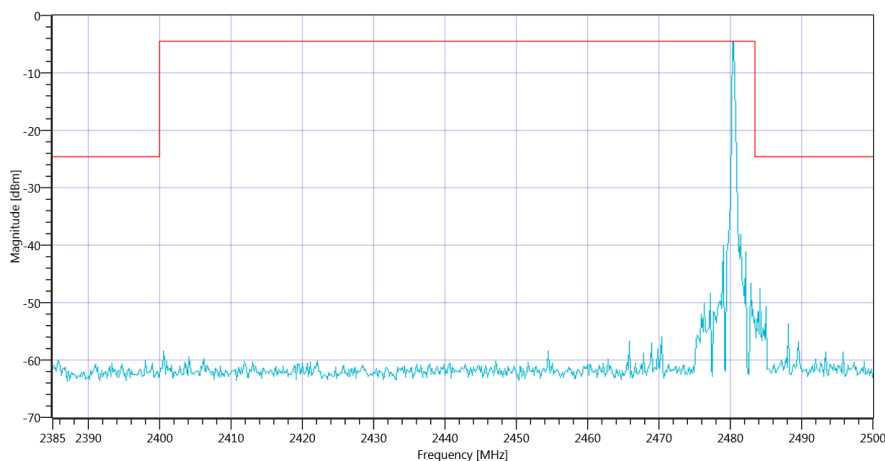
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-3.86 0 15
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2480.33 MHz	---	---	-4.58	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 2484.167 MHz	0	---	23.01	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2480.4_06082020_152103.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2480.4_06082020_152106.png

TEST FINISHED

General Verdict 06.08.2020 15:21:08 / RT: 610 s

PASS

22. FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4

Test References	
TC Start	07.08.2020 09:36:12
Ambit Temp [°C] Humidity [rel%]	29.6 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1
My Description	FCC 15.247 TX Emissions Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2402.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

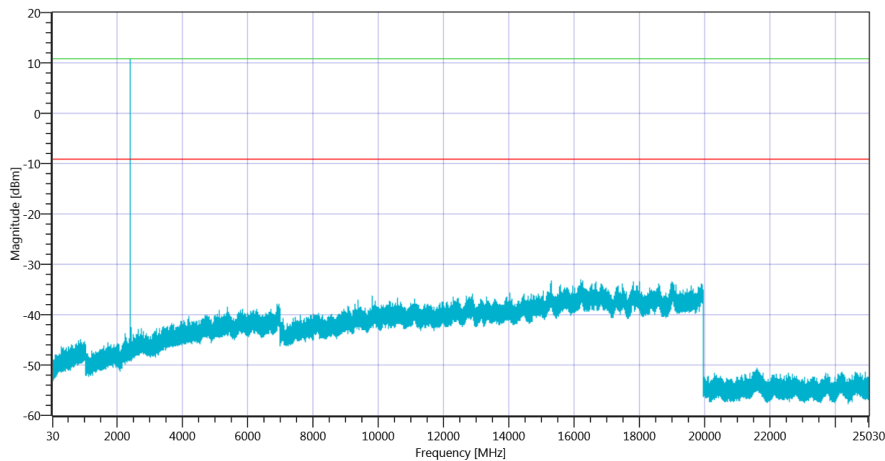
Test at TX 2402.4 MHz

READ SA SETTINGS:

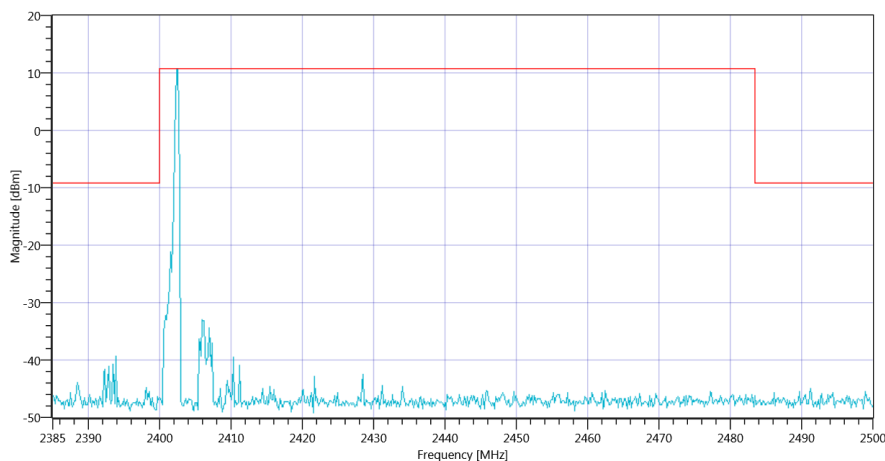
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.11 0 30
Start [MHz] Stop [MHz]	24530.000 25030.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 10 3001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2402.33 MHz	---	---	10.82	dBm	INFO
No peaks detected	---	---			PASS
Lowest margin to limit 16219.667 MHz	0	---	23.94	dB	INFO



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2402.4_07082020_094617.png



Plot_FCC Part 15.247 TX Spurious Conducted ~ Generic 2G4 2402.4_07082020_094620.png

TEST FINISHED

General Verdict 07.08.2020 09:46:21 / RT: 608 s

PASS

23. Common2G4 Peak OP 3MHz/3MHz ~ Generic 2G4

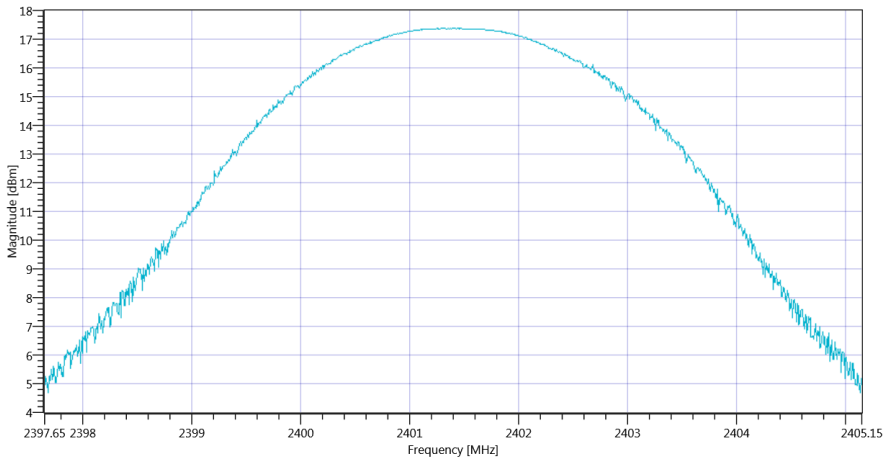
Test References	
TC Start	13.02.2020 11:12:51
System Version	1.0.0.32
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Common2G4_Peak_Output_Power_Conducted_3MHz_3MHz_V01 Version: 0.0.1
My Description	Peak Output Power conducted 3MHz/3MHz - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	Chain A
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2401.4
Frequency mid to test	True Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

Test at TX 2401.4 MHz

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	27.40 9.81 35
Start [MHz] Stop [MHz]	2397.650 2405.150
RBW [MHz] VBW [MHz]	3.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 20 1001 SWE

RESULT: TC_VM_Common2G4_Peak_Output_Power_Conducted_3MHz_3MHz_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	17.37	dBm	Info
Peak Power	---	---	54.575786	mW	Info
Frequency at Peak	---	---	2401.25	MHz	Info

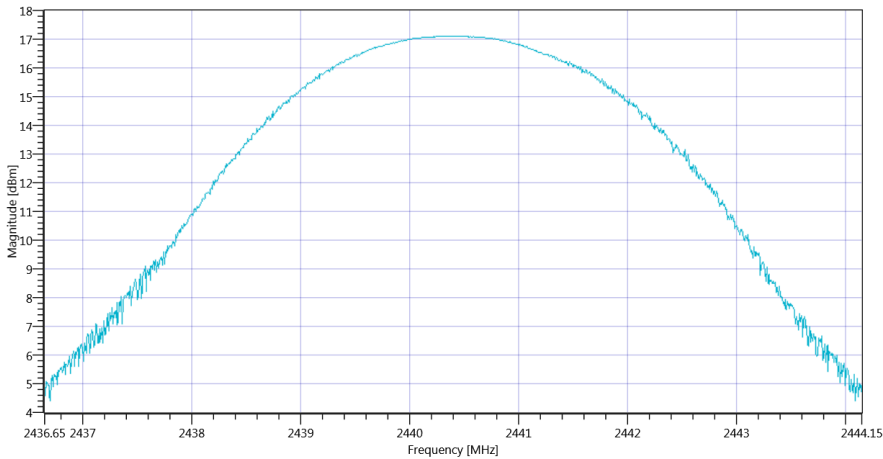


Plot_Common2G4 Peak OP 3MHz-3MHz ~ Generic 2G4_13022020_111329.png

Test at TX 2440.4 MHz

READ SA SETTINGS:		
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	27.11 9.9 35	
Start [MHz] Stop [MHz]	2436.650 2444.150	
RBW [MHz] VBW [MHz]	3.000000 3.000000	
Detector TraceMode	POS MAXH	
Sweep: Time [ms] Count Points per Section Type	1000 20 1001 SWE	

RESULT: TC_VM_Common2G4_Peak_Output_Power_Conducted_3MHz_3MHz_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	17.09	dBm	Info
Peak Power	---	---	51.168184	mW	Info
Frequency at Peak	---	---	2440.28	MHz	Info



Plot_Common2G4 Peak OP 3MHz-3MHz ~ Generic 2G4_13022020_111420.png

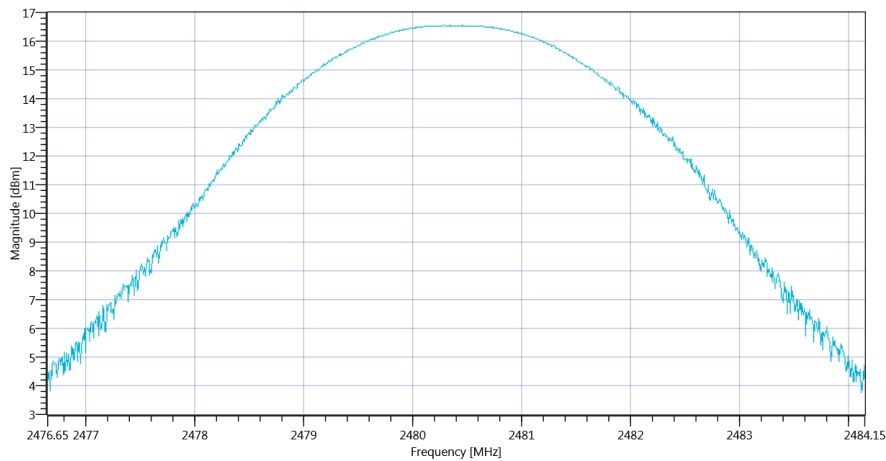
Test at TX 2480.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	26.53 9.95 35
Start [MHz] Stop [MHz]	2476.650 2484.150
RBW [MHz] VBW [MHz]	3.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 20 1001 SWE

RESULT: TC_VM_Common2G4_Peak_Output_Power_Conducted_3MHz_3MHz_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	---	16.55	dBm	Info
Peak Power	---	---	45.185594	mW	Info
Frequency at Peak	---	---	2480.46	MHz	Info



Plot_Common2G4 Peak OP 3MHz-3MHz ~ Generic 2G4_13022020_111518.png

TEST FINISHED

General Verdict 13.02.2020 11:15:19 / RT: 147 s

PASS

24. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 11:33:07
Ambit Temp [°C] Humidity [rel%]	25.1 37
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

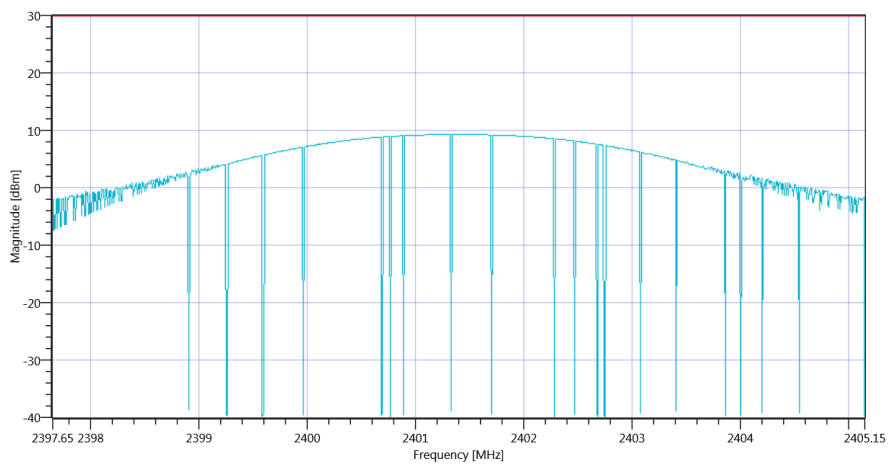
Test at TX 2401.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	19.22 10.21 25
Start [MHz] Stop [MHz]	2397.650 2405.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1500 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	9.24	dBm	PASS
Peak Power	---	1000	8.3946	mW	PASS
Frequency at Peak	---	---	2401.31	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_06082020_113403.png

TEST FINISHED

General Verdict	06.08.2020 11:34:04 / RT: 56 s	PASS
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25. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 12:17:10
Ambit Temp [°C] Humidity [rel%]	25.2 36
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2403.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

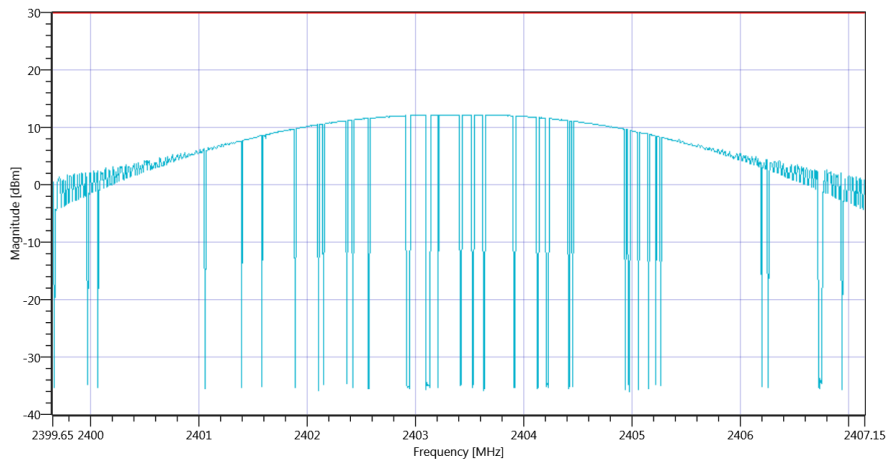
Test at TX 2403.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	22.02 10.21 30
Start [MHz] Stop [MHz]	2399.650 2407.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	12.19	dBm	PASS
Peak Power	---	1000	16.5577	mW	PASS
Frequency at Peak	---	---	2403.475	MHz	Information



TEST FINISHED

General Verdict	06.08.2020 12:17:53 / RT: 43 s	PASS
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26. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 12:52:37
Ambit Temp [°C] Humidity [rel%]	25.2 37
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2404.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

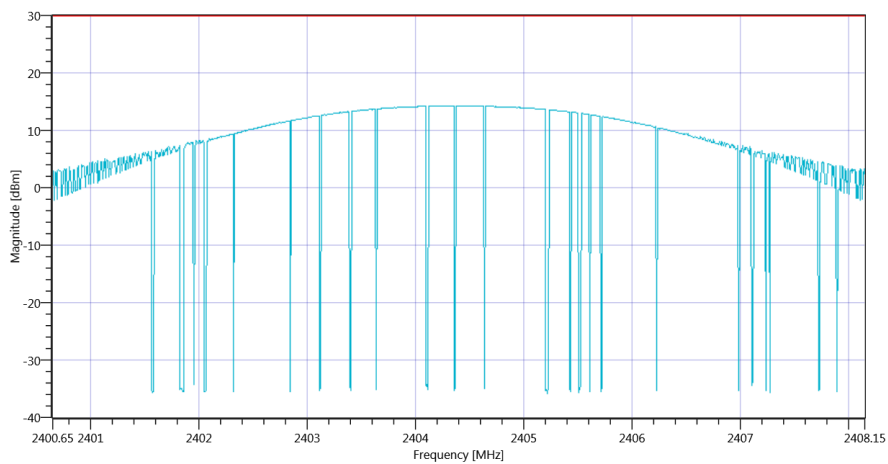
Test at TX 2404.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	24.08 10.21 30
Start [MHz] Stop [MHz]	2400.650 2408.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	14.2	dBm	PASS
Peak Power	---	1000	26.30268	mW	PASS
Frequency at Peak	---	---	2404.295	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_06082020_125320.png

TEST FINISHED

General Verdict	06.08.2020 12:53:21 / RT: 43 s	PASS
-----------------	--------------------------------	------

27. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 13:19:28
Ambit Temp [°C] Humidity [rel%]	25.5 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2412.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

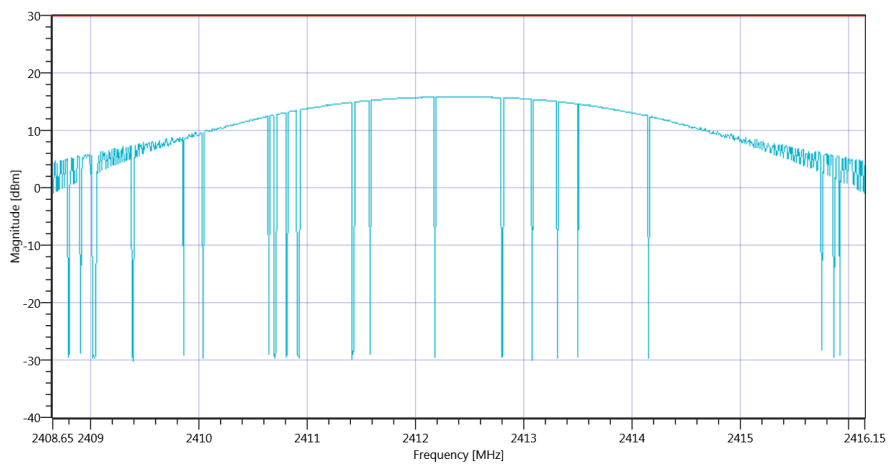
Test at TX 2412.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	25.74 10.23 35
Start [MHz] Stop [MHz]	2408.650 2416.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	15.78	dBm	PASS
Peak Power	---	1000	37.844258	mW	PASS
Frequency at Peak	---	---	2412.497	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_06082020_132011.png

TEST FINISHED

General Verdict

06.08.2020 13:20:12 / RT: 43 s

PASS

28. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 13:40:58
Ambit Temp [°C] Humidity [rel%]	25.5 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	True Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

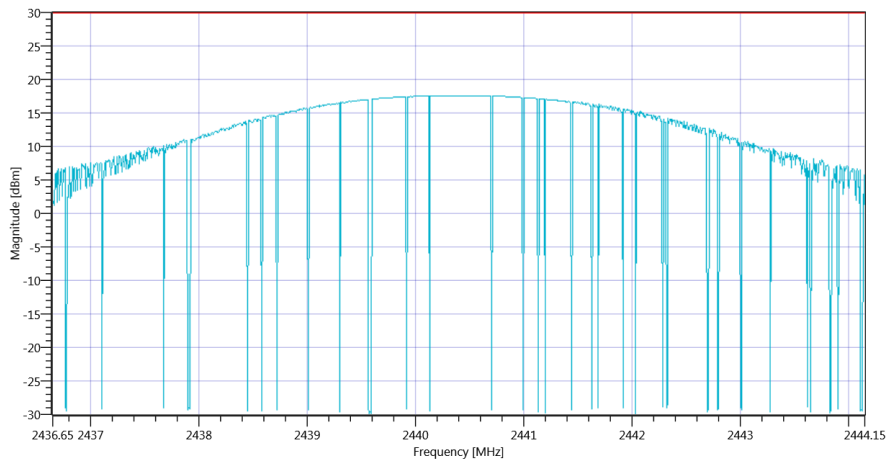
Test at TX 2440.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	27.52 10.29 35
Start [MHz] Stop [MHz]	2436.650 2444.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	17.57	dBm	PASS
Peak Power	---	1000	57.147864	mW	PASS
Frequency at Peak	---	---	2440.49	MHz	Information



TEST FINISHED

General Verdict 06.08.2020 13:41:42 / RT: 43 s

PASS

29. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 13:54:14
Ambit Temp [°C] Humidity [rel%]	25.3 36
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2474.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

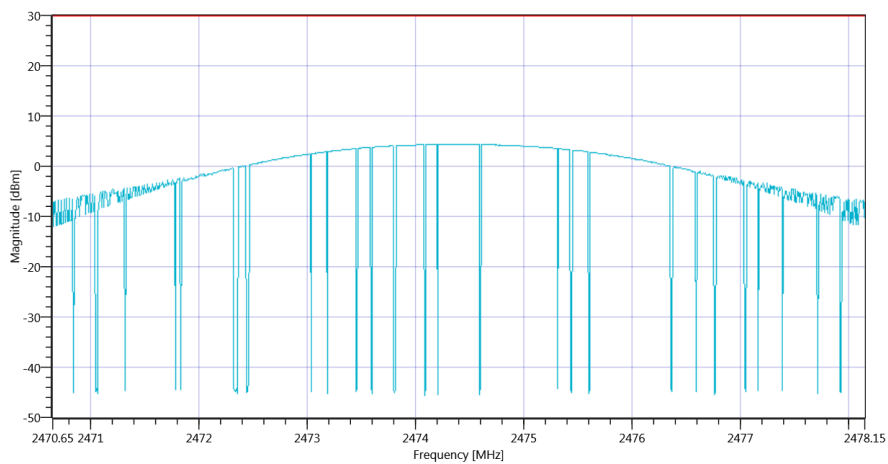
Test at TX 2474.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.21 10.35 20
Start [MHz] Stop [MHz]	2470.650 2478.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	4.29	dBm	PASS
Peak Power	---	1000	2.685344	mW	PASS
Frequency at Peak	---	---	2474.288	MHz	Information



TEST FINISHED

General Verdict	06.08.2020 13:54:58 / RT: 43 s	PASS
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30. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 14:07:12
Ambit Temp [°C] Humidity [rel%]	25.5 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2477.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

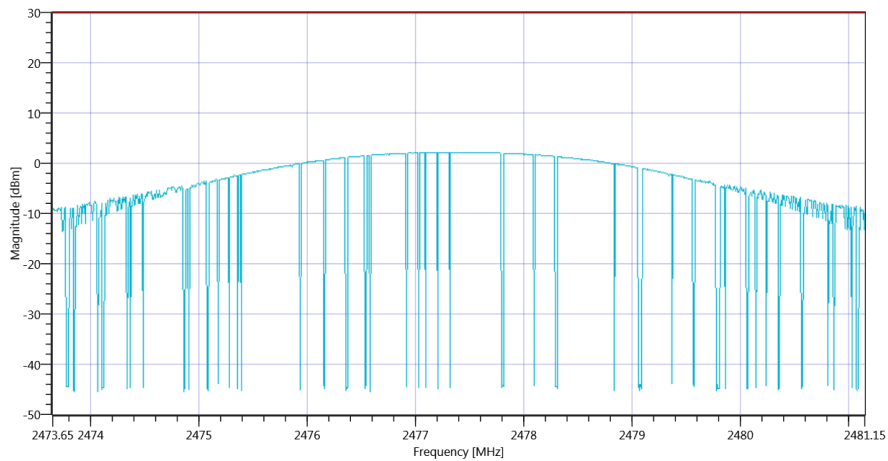
Test at TX 2477.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.05 10.35 20
Start [MHz] Stop [MHz]	2473.650 2481.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	2.14	dBm	PASS
Peak Power	---	1000	1.636817	mW	PASS
Frequency at Peak	---	---	2477.25	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_06082020_140756.png

TEST FINISHED

General Verdict	06.08.2020 14:07:56 / RT: 44 s	PASS
-----------------	--------------------------------	------

31. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 14:36:25
Ambit Temp [°C] Humidity [rel%]	25.6 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2478.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

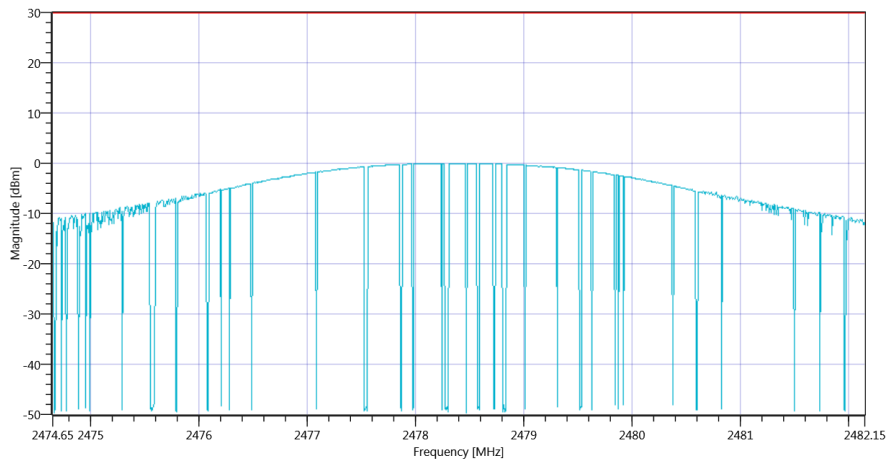
Test at TX 2478.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	9.87 10.35 15
Start [MHz] Stop [MHz]	2474.650 2482.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	-0.08	dBm	PASS
Peak Power	---	1000	0.981748	mW	PASS
Frequency at Peak	---	---	2478.362	MHz	Information



TEST FINISHED

General Verdict	06.08.2020 14:37:09 / RT: 44 s	PASS
-----------------	--------------------------------	------

32. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 14:49:39
Ambit Temp [°C] Humidity [rel%]	25.7 39
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2479.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

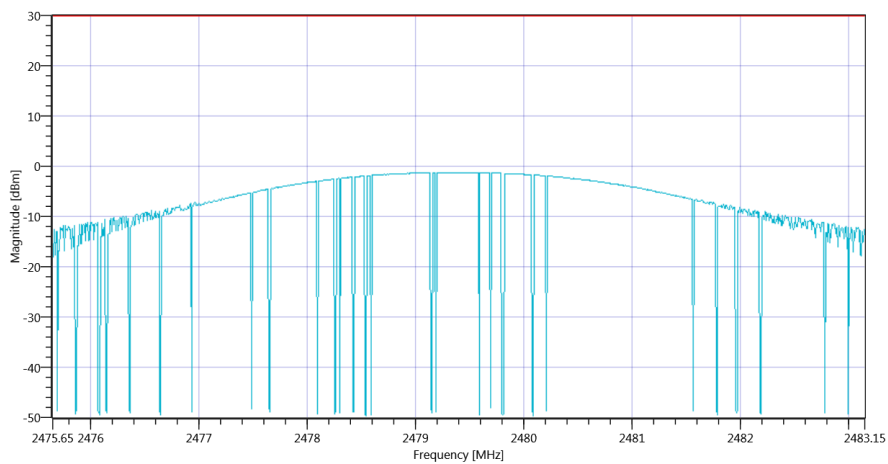
Test at TX 2479.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.60 10.35 15
Start [MHz] Stop [MHz]	2475.650 2483.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	-1.3	dBm	PASS
Peak Power	---	1000	0.74131	mW	PASS
Frequency at Peak	---	---	2479.438	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_06082020_145023.png

TEST FINISHED

General Verdict	06.08.2020 14:50:24 / RT: 44 s	PASS
-----------------	--------------------------------	------

33. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	06.08.2020 15:10:10
Ambit Temp [°C] Humidity [rel%]	25.6 39
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	False Freq [MHz] 2401.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	True Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

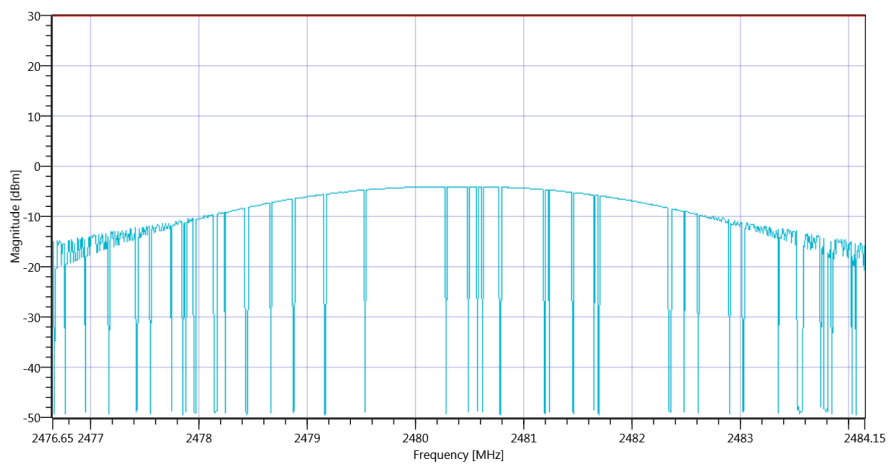
Test at TX 2480.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.87 10.36 15
Start [MHz] Stop [MHz]	2476.650 2484.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1000 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	-4.07	dBm	PASS
Peak Power	---	1000	0.391742	mW	PASS
Frequency at Peak	---	---	2480.445	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_06082020_151053.png

TEST FINISHED

General Verdict	06.08.2020 15:10:53 / RT: 43 s	PASS
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34. FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4

Test References	
TC Start	07.08.2020 09:35:11
Ambit Temp [°C] Humidity [rel%]	29.5 38
System Version	1.0.0.49
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_FHSS_V01 Version: 0.0.1
My Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2402.4
Frequency mid to test	False Freq [MHz] 2440.4
Frequency high to test	False Freq [MHz] 2480.4
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

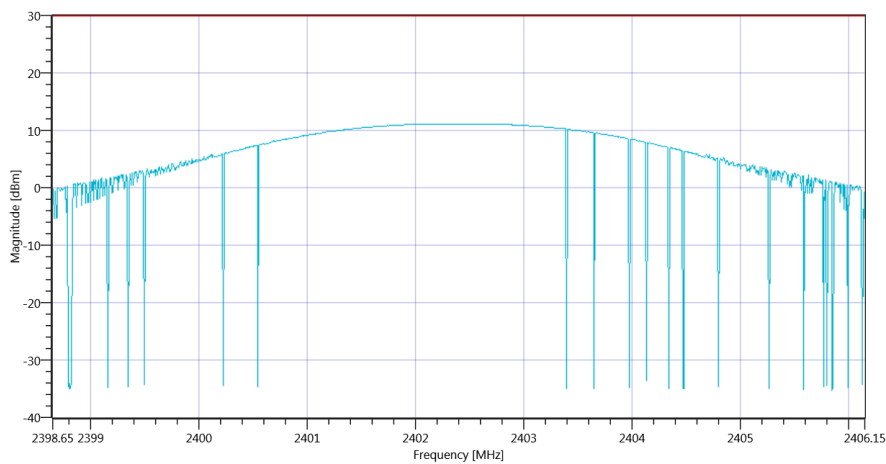
Test at TX 2402.4 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.99 10.21 30
Start [MHz] Stop [MHz]	2398.650 2406.150
RBW [MHz] VBW [MHz]	3.000000 10.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1500 25 1001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	11.13	dBm	PASS
Peak Power	---	1000	12.971793	mW	PASS
Frequency at Peak	---	---	2402.512	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power FHSS ~ Generic 2G4_07082020_093608.png

TEST FINISHED

General Verdict	07.08.2020 09:36:08 / RT: 56 s	PASS
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35. Hardcopy Spectrum Analyzer ~

Test References

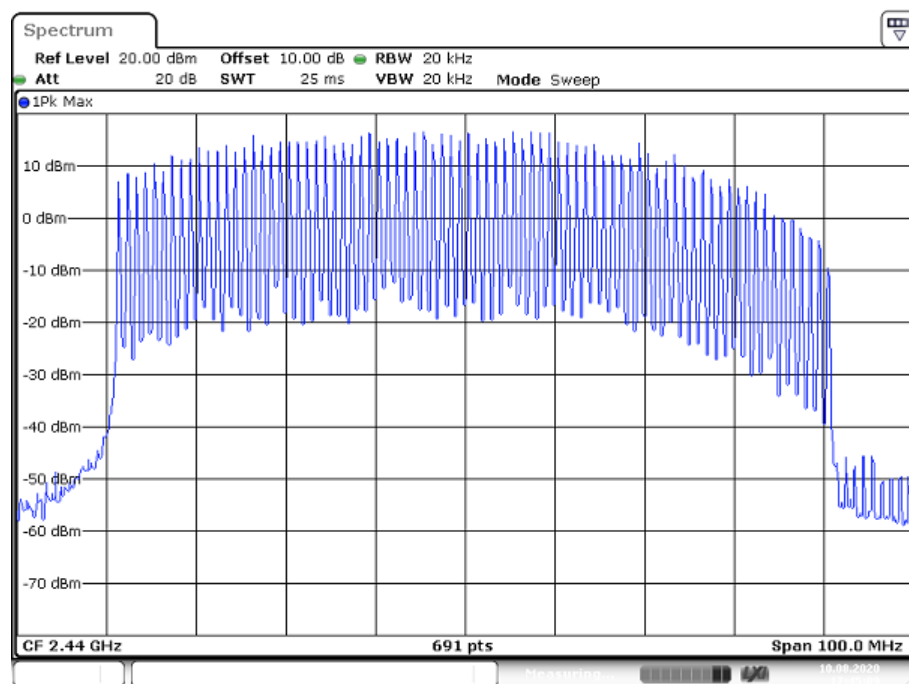
TC Start	10.08.2020 17:40:45
Ambit Temp [°C] Humidity [rel%]	27.6 36
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.00 10 20
Start [MHz] Stop [MHz]	2390.000 2490.000
RBW [MHz] VBW [MHz]	0.020000 0.020000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	25 0 691 SWE



Date: 10.AUG.2020 17:45:09

HC_10082020_174048.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
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Delta Marker Readout

TEST FINISHED

General Verdict

10.08.2020 17:41:03 / RT: 18 s

PASS

36. Hardcopy Spectrum Analyzer ~

Test References

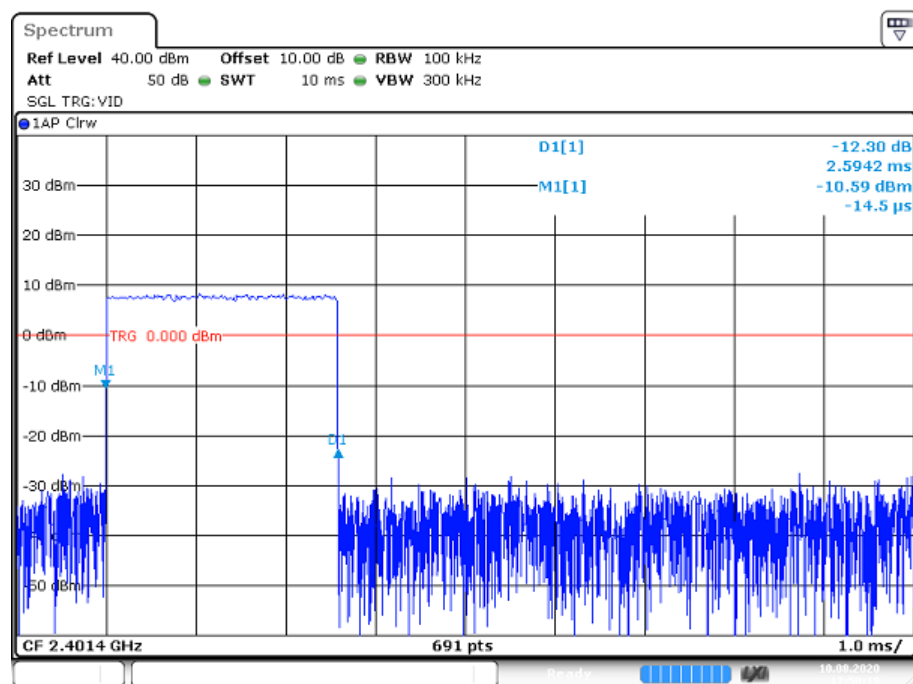
TC Start	10.08.2020 17:45:54
Ambit Temp [°C] Humidity [rel%]	27.7 36
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2401.400 2401.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	APE WRIT
Sweep: Time [ms] Count Points per Section Type	10 0 691 SWE



Date: 10.AUG 2020 17:50:18

HC_10082020_174557.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	-0.014	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 1 Time	---	---	2.594	ms	Information
Delta Marker 1 Level	---	---	-12.300	dB	Information

TEST FINISHED					
General Verdict	10.08.2020 17:46:12 / RT: 17 s			PASS	

37. Hardcopy Spectrum Analyzer ~

Test References

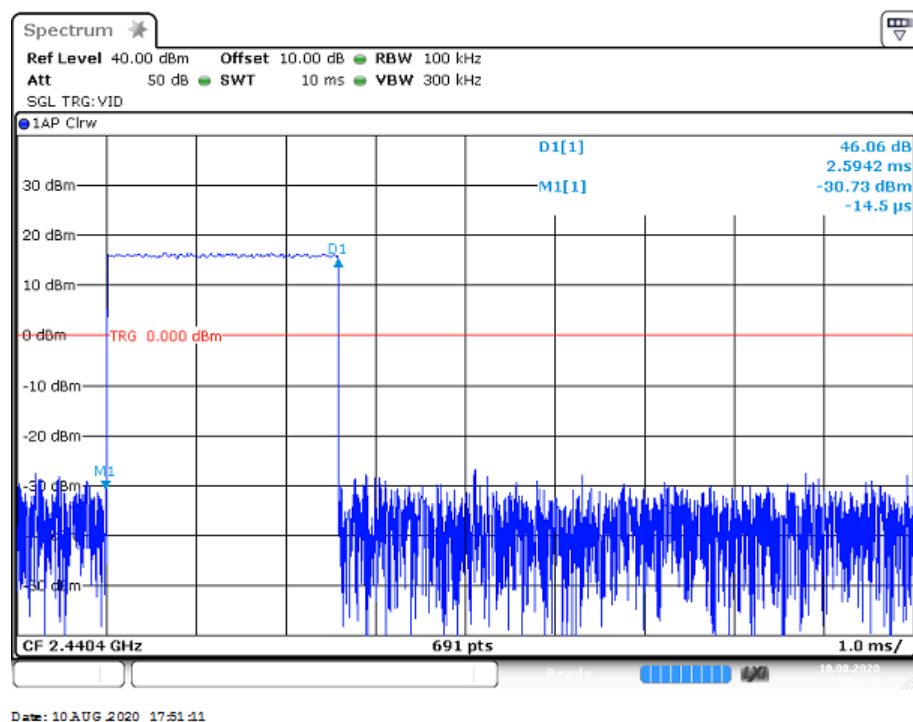
TC Start	10.08.2020 17:46:48
Ambit Temp [°C] Humidity [rel%]	27.8 35
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2440.400 2440.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	APE WRIT
Sweep: Time [ms] Count Points per Section Type	10 0 691 SWE



HC_10082020_174650.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	-0.014	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 1 Time	---	---	2.594	ms	Information
Delta Marker 1 Level	---	---	46.063	dB	Information

TEST FINISHED					
General Verdict	10.08.2020 17:47:05 / RT: 17 s			PASS	

38. Hardcopy Spectrum Analyzer ~

Test References

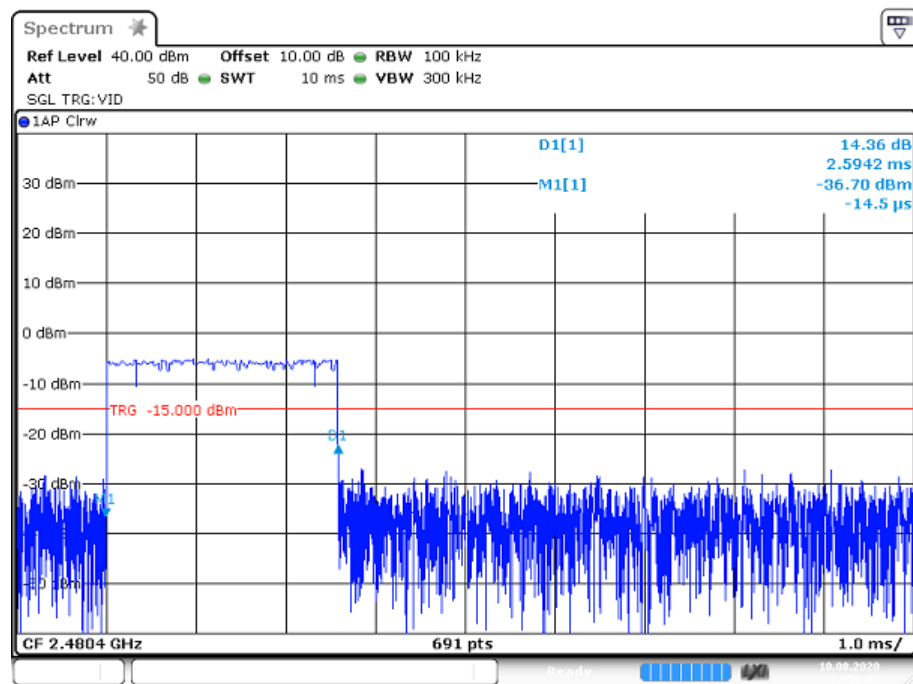
TC Start	10.08.2020 17:47:59
Ambit Temp [°C] Humidity [rel%]	27.8 35
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2480.400 2480.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	APE WRIT
Sweep: Time [ms] Count Points per Section Type	10 0 691 SWE



Date: 10.AUG 2020 17:52:23

HC_10082020_174802.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	-0.014	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 1 Time	---	---	2.594	ms	Information
Delta Marker 1 Level	---	---	14.356	dB	Information

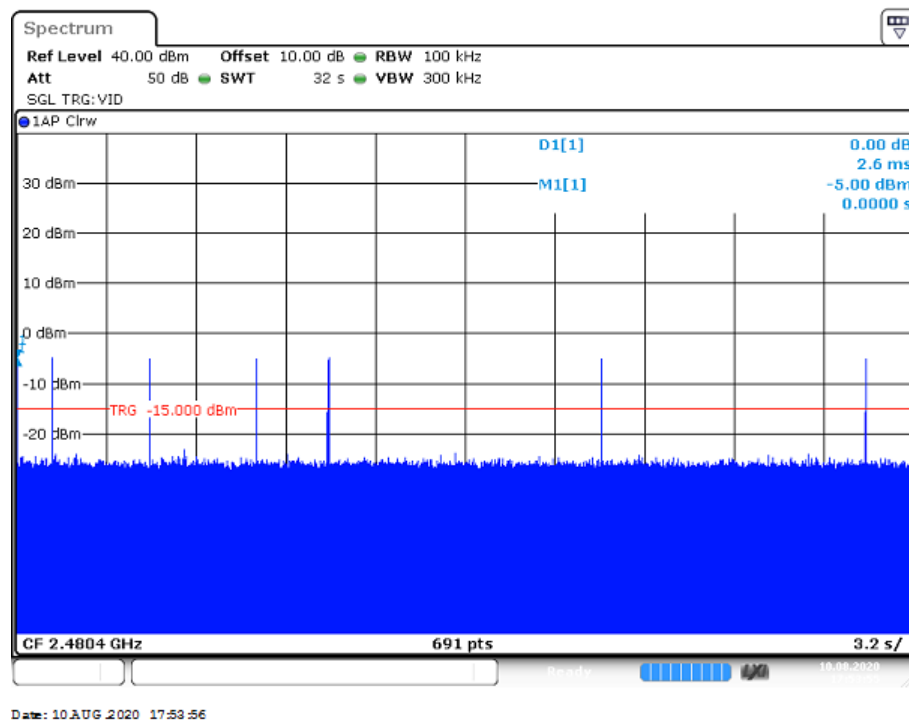
TEST FINISHED					
General Verdict	10.08.2020 17:48:17 / RT: 17 s			PASS	

39. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 17:49:32
Ambit Temp [°C] Humidity [rel%]	27.9 35
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2480.400 2480.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	APE WRIT
Sweep: Time [ms] Count Points per Section Type	32000 0 691 SWE



Date: 10.AUG 2020 17:53:56

HC_10082020_174934.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	-0.014	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 1 Time	---	---	2.594	ms	Information
Delta Marker 1 Level	---	---	0.000	dB	Information

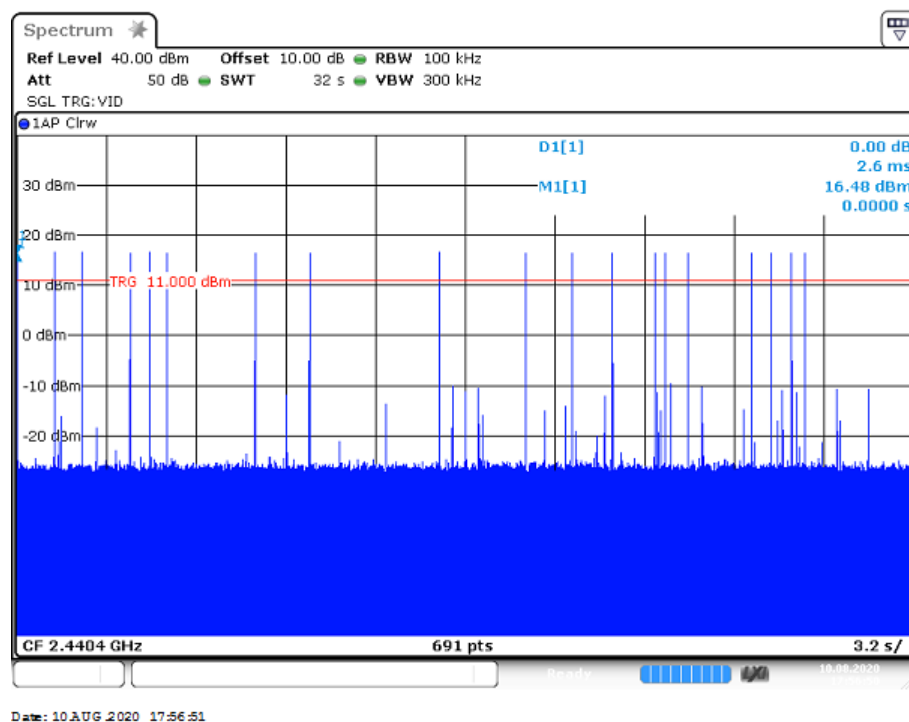
TEST FINISHED					
General Verdict	10.08.2020 17:49:50 / RT: 17 s			PASS	

40. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 17:52:27
Ambit Temp [°C] Humidity [rel%]	27.9 35
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2440.400 2440.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	APE WRIT
Sweep: Time [ms] Count Points per Section Type	32000 0 691 SWE



HC_10082020_175229.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	--	--	-0.014	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 1 Time	---	---	2.594	ms	Information
Delta Marker 1 Level	---	---	0.000	dB	Information

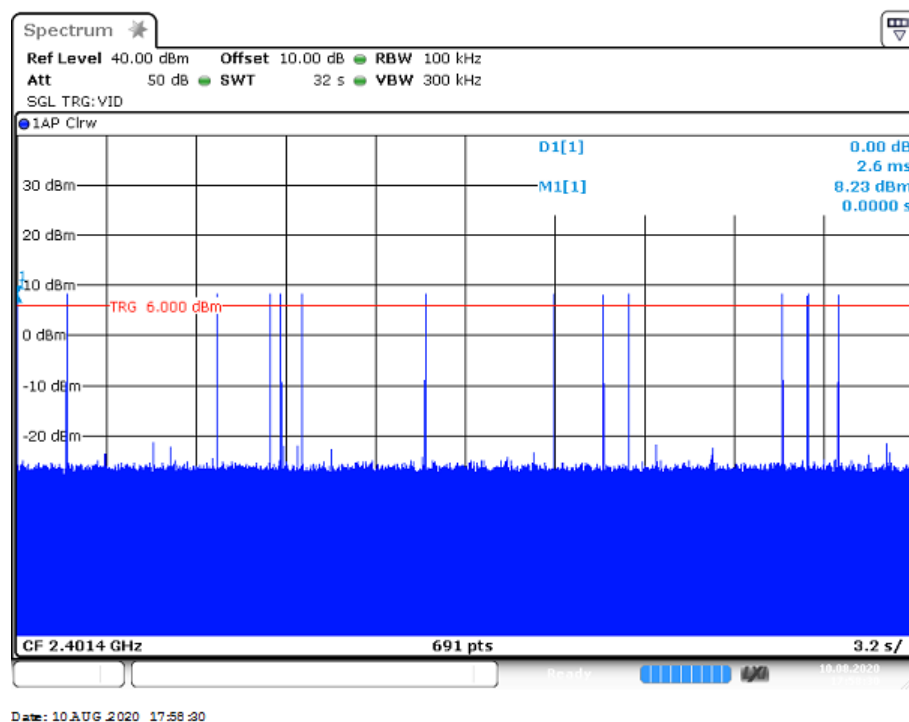
TEST FINISHED					
General Verdict	10.08.2020 17:52:44 / RT: 17 s			PASS	

41. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 17:54:06
Ambit Temp [°C] Humidity [rel%]	27.9 35
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2401.400 2401.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	APE WRIT
Sweep: Time [ms] Count Points per Section Type	32000 0 691 SWE



HC_10082020_175409.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	-0.014	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 1 Time	---	---	2.594	ms	Information
Delta Marker 1 Level	---	---	0.000	dB	Information

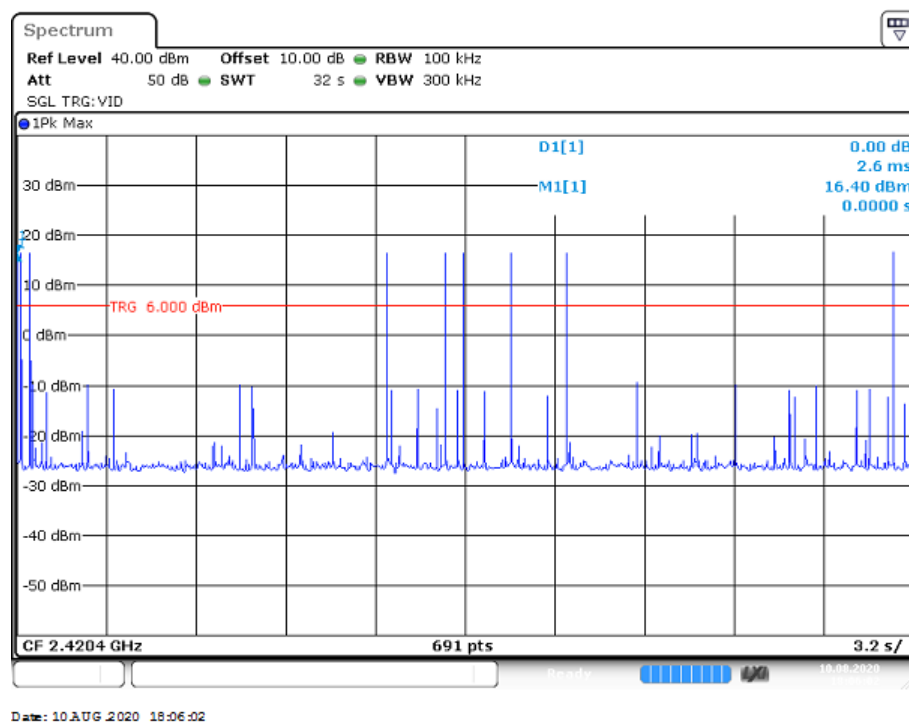
TEST FINISHED					
General Verdict	10.08.2020 17:54:24 / RT: 17 s			PASS	

42. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 18:01:39
Ambit Temp [°C] Humidity [rel%]	28.0 36
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2420.400 2420.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 0 691 SWE



HC_10082020_180141.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	-0.014	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 1 Time	---	---	2.594	ms	Information
Delta Marker 1 Level	---	---	0.000	dB	Information

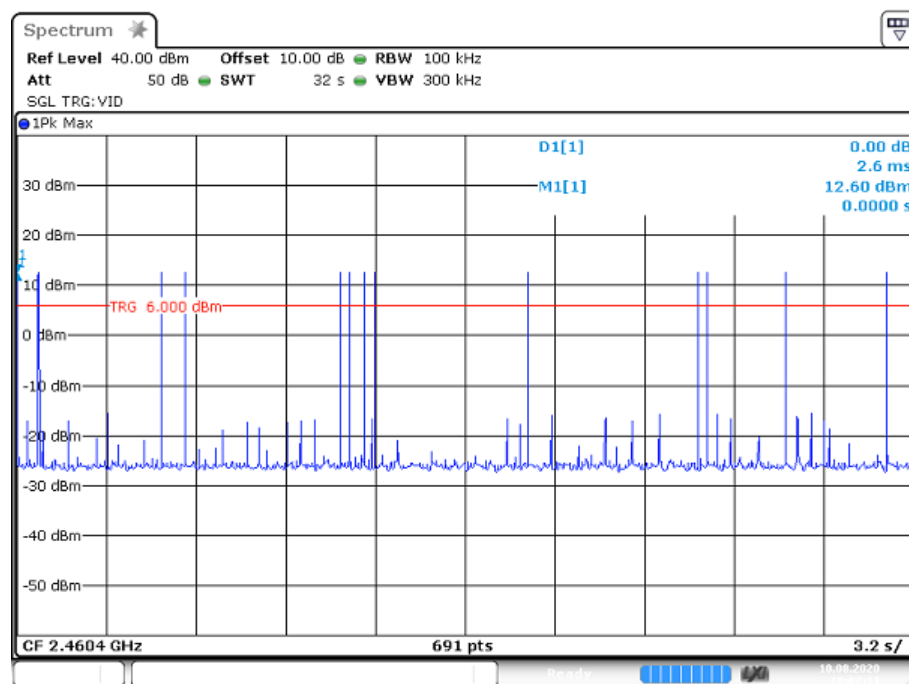
TEST FINISHED					
General Verdict	10.08.2020 18:01:56 / RT: 17 s			PASS	

43. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 18:02:47
Ambit Temp [°C] Humidity [rel%]	28.0 36
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2460.400 2460.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	32000 0 691 SWE



Date: 10.AUG.2020 18:07:11

HC_10082020_180250.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	-0.014	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 1 Time	---	---	2.594	ms	Information
Delta Marker 1 Level	---	---	0.000	dB	Information

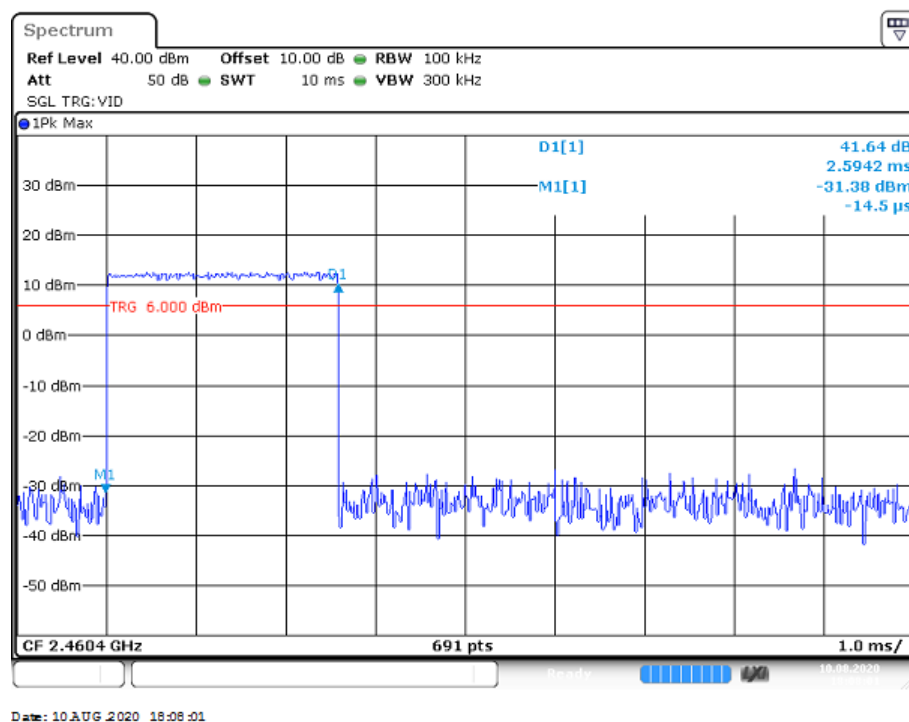
TEST FINISHED					
General Verdict	10.08.2020 18:03:05 / RT: 18 s			PASS	

44. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 18:03:38
Ambit Temp [°C] Humidity [rel%]	28.1 36
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2460.400 2460.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	10 0 691 SWE



HC_10082020_180340.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	-0.014	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 1 Time	---	---	2.594	ms	Information
Delta Marker 1 Level	---	---	41.645	dB	Information

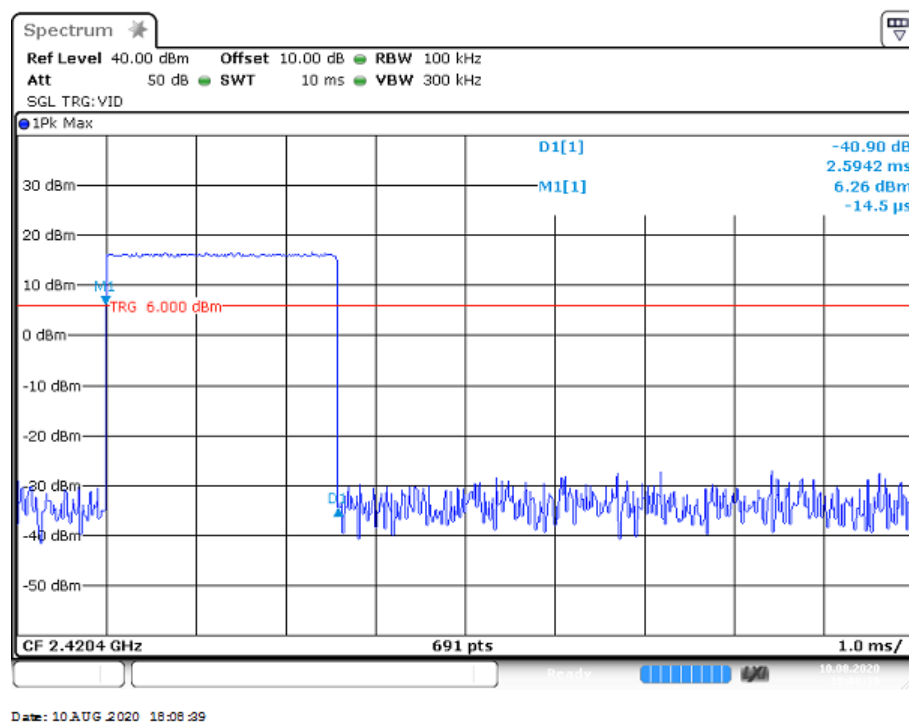
TEST FINISHED					
General Verdict	10.08.2020 18:03:55 / RT: 17 s			PASS	

45. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	10.08.2020 18:04:16
Ambit Temp [°C] Humidity [rel%]	28.1 35
System Version	1.0.0.49
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	--
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	40.00 10 50
Start [MHz] Stop [MHz]	2420.400 2420.400
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	10 0 691 SWE



Date: 10.AUG 2020 18:06:39

HC_10082020_180418.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	-0.014	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 1 Time	---	---	2.594	ms	Information
Delta Marker 1 Level	---	---	-40.900	dB	Information

TEST FINISHED					
General Verdict	10.08.2020 18:04:33 / RT: 17 s			PASS	

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