

Measurement Results

1-1881/21-01-05_log1_conducted

[Test logging](#)

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Document authorized:

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EUT Summary

EUT DEFINITION	
Manufacturer	Mahr GmbH
Type	Millimes 2001 Wi/ 2000 Wi
Kind	NI
Serial Number Setup Number	12010006 1.0
Version SW FW HW	NI NI NI
Comment 1 2	Radiated test setup
Temperature [°C] Min Nom Max	0 20 40
Voltage [V] Min Nom Max @Current Max [A]	3.7 3.7 3.7 @1

EUT Common Settings 2G4	
Hopping supported	No
Burst length [ms]	10
Nominal Bandwidth [MHz]	1
User Interaction	Yes

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

Test References	
TC Start	19.03.2021 12:53:16
Ambit Temp [°C] Humidity [rel%]	0.0 0
System Version	2.0.0.4
Test Specification	FCC Part 15.247
Test Method	
TC Version	0.0.2
My Description	FCC 15.247 Bandwidth 99PCT-20DB DTS - Generic 2G4
Add. Information	

Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2403
Frequency mid to test	True Freq [MHz] 2439
Frequency high to test	True Freq [MHz] 2475
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	37
Switched Path	EUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

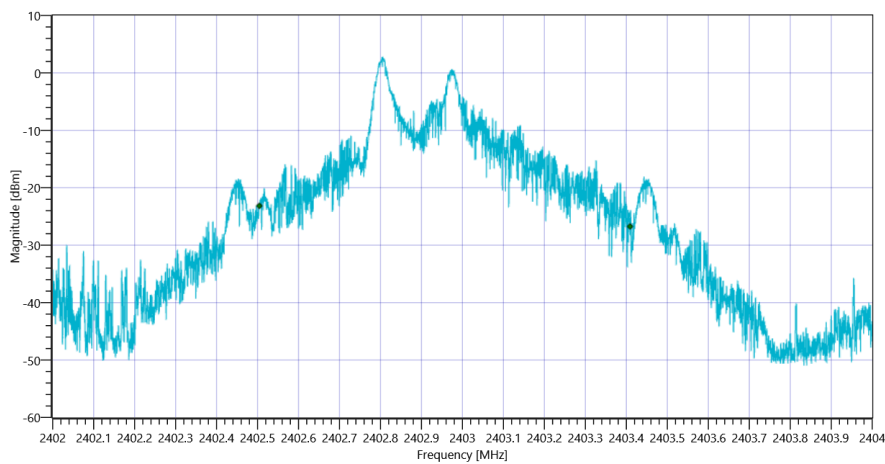
Test at TX 2403 MHz

READ SA SETTINGS:

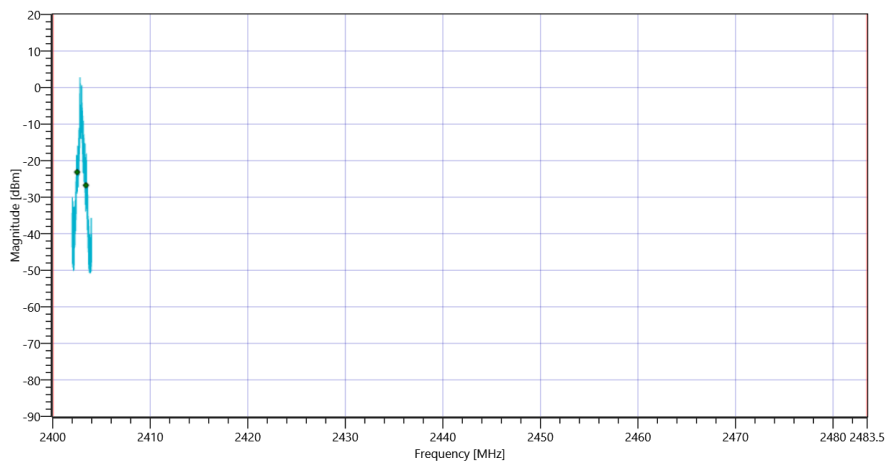
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.40 47.16 0
Start [MHz] Stop [MHz]	2402.000 2404.000
RBW [MHz] VBW [MHz]	0.020000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 400 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	904.710	kHz	INFO
T1 99%	2400.000000	---	2402.5042	MHz	PASS
T2 99%	---	2483.500000	2403.4090	MHz	PASS



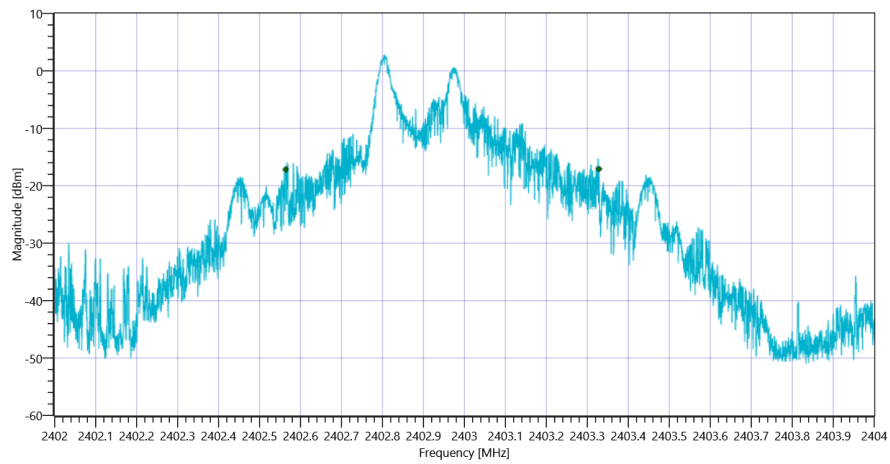
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_19032021_125359.png



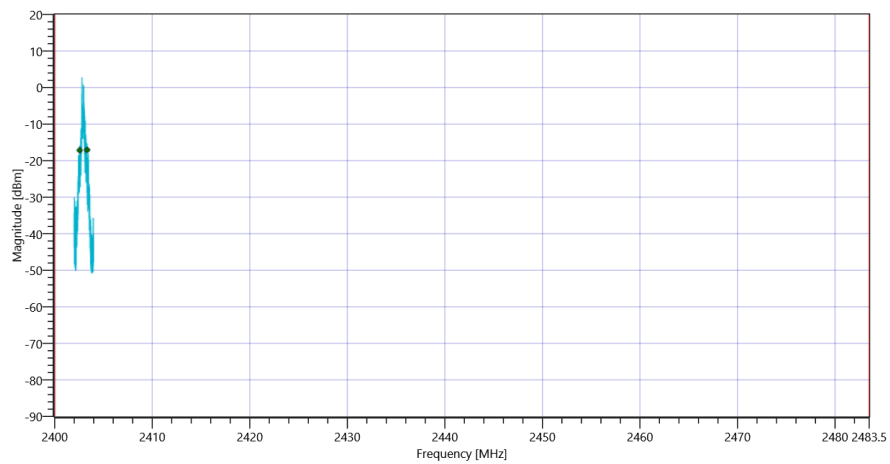
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_19032021_125406.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	765	kHz	INFO
T1 20dB	2400.000000	---	2402.5636	MHz	PASS
T2 20dB	---	2483.500000	2403.3282	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_19032021_125414.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_19032021_125421.png

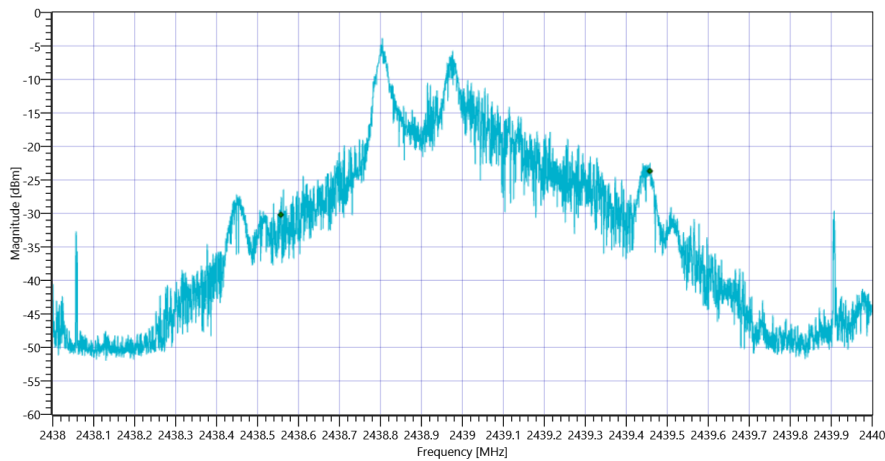
Test at TX 2439 MHz

READ SA SETTINGS:

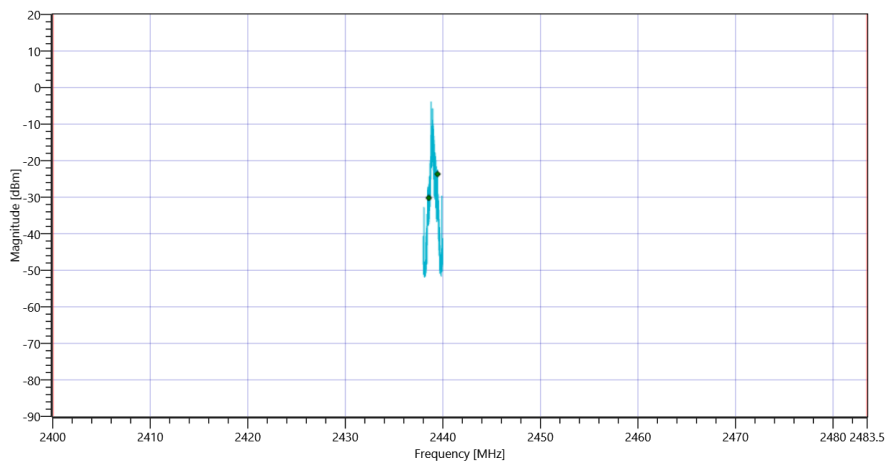
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.44 47.24 0
Start [MHz] Stop [MHz]	2438.000 2440.000
RBW [MHz] VBW [MHz]	0.020000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 400 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	900.510	kHz	INFO
T1 99%	2400.000000	---	2438.5568	MHz	PASS
T2 99%	---	2483.500000	2439.4574	MHz	PASS



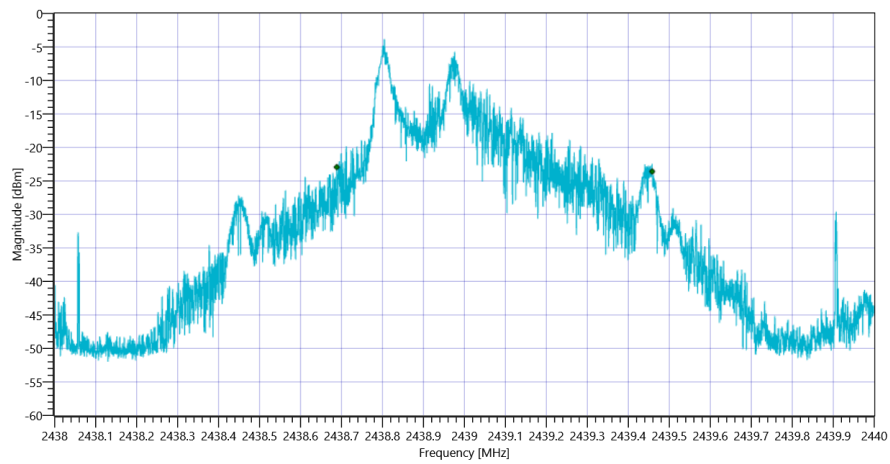
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_19032021_125503.png



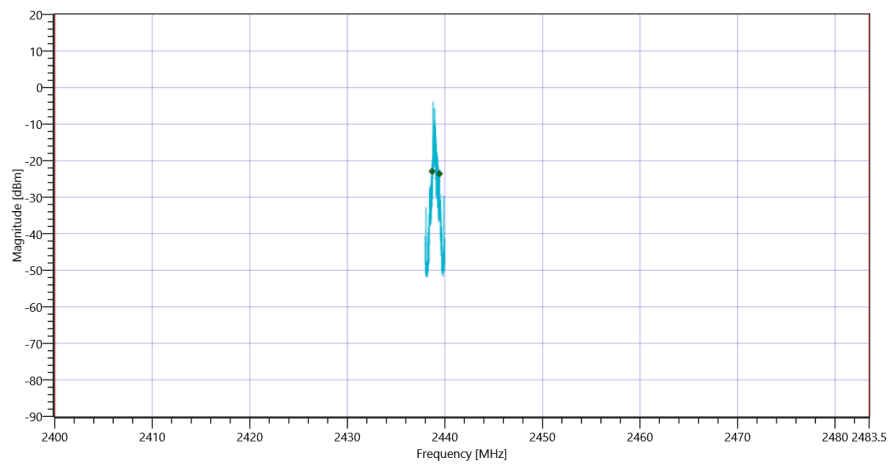
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_19032021_125510.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	770	kHz	INFO
T1 20dB	2400.000000	---	2438.6884	MHz	PASS
T2 20dB	---	2483.500000	2439.4582	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_19032021_125518.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_19032021_125525.png

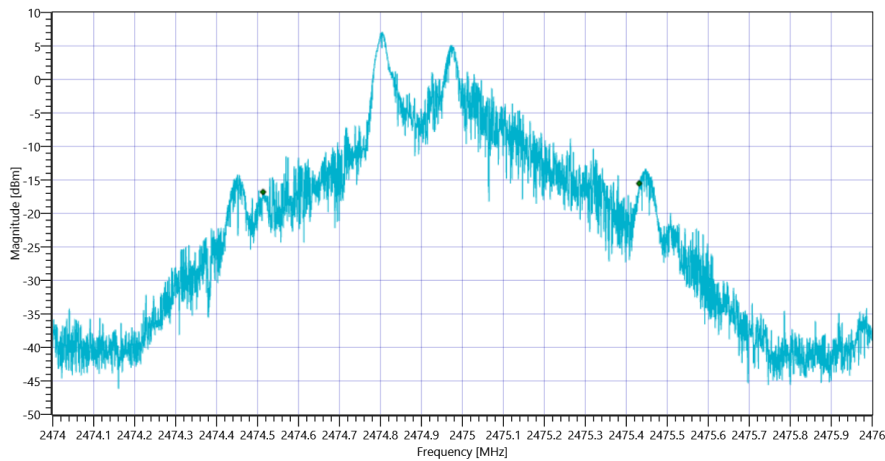
Test at TX 2475 MHz

READ SA SETTINGS:

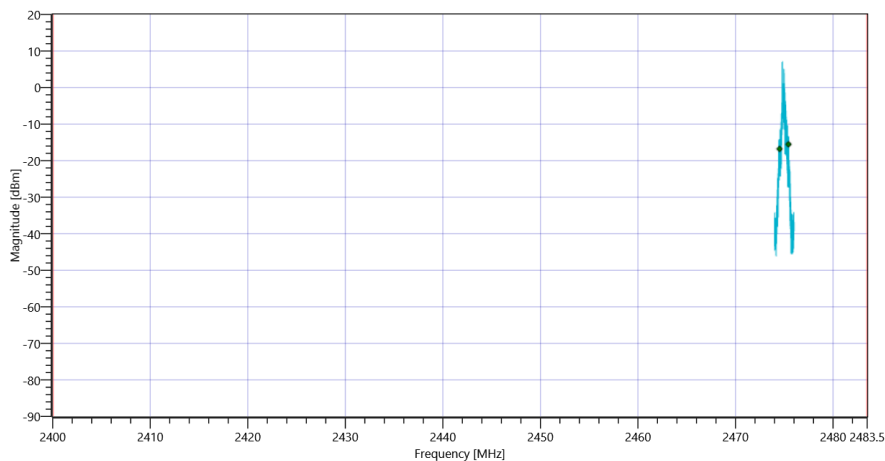
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.16 47.29 0
Start [MHz] Stop [MHz]	2474.000 2476.000
RBW [MHz] VBW [MHz]	0.020000 0.100000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	50 400 10001 SWE

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	917.708	kHz	INFO
T1 99%	2400.000000	---	2474.5134	MHz	PASS
T2 99%	---	2483.500000	2475.4312	MHz	PASS



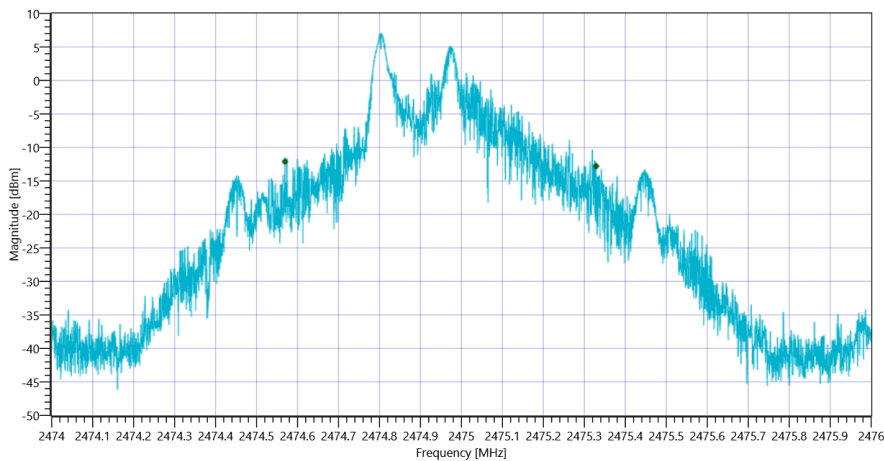
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_19032021_125610.png



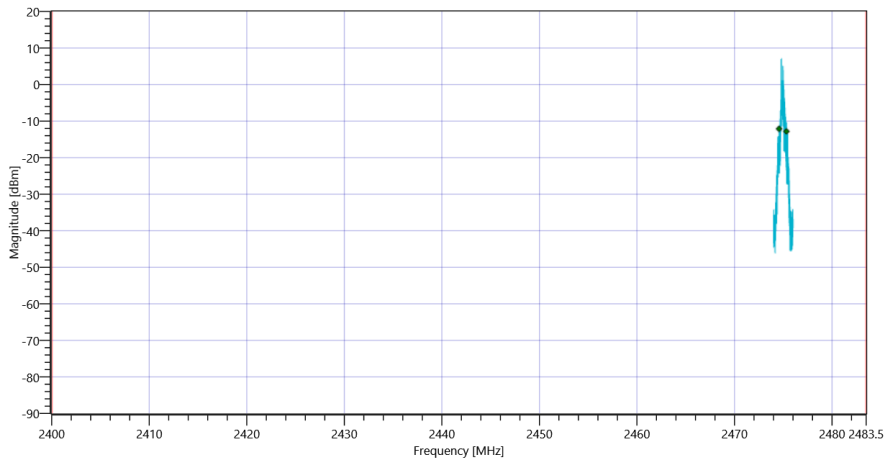
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_19032021_125617.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	759	kHz	INFO
T1 20DB	2400.000000	---	2474.5692	MHz	PASS
T2 20dB	---	2483.500000	2475.3284	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_19032021_125625.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_19032021_125632.png

TEST FINISHED	
General Verdict	PASS

2. Hardcopy Spectrum Analyzer ~

Test References

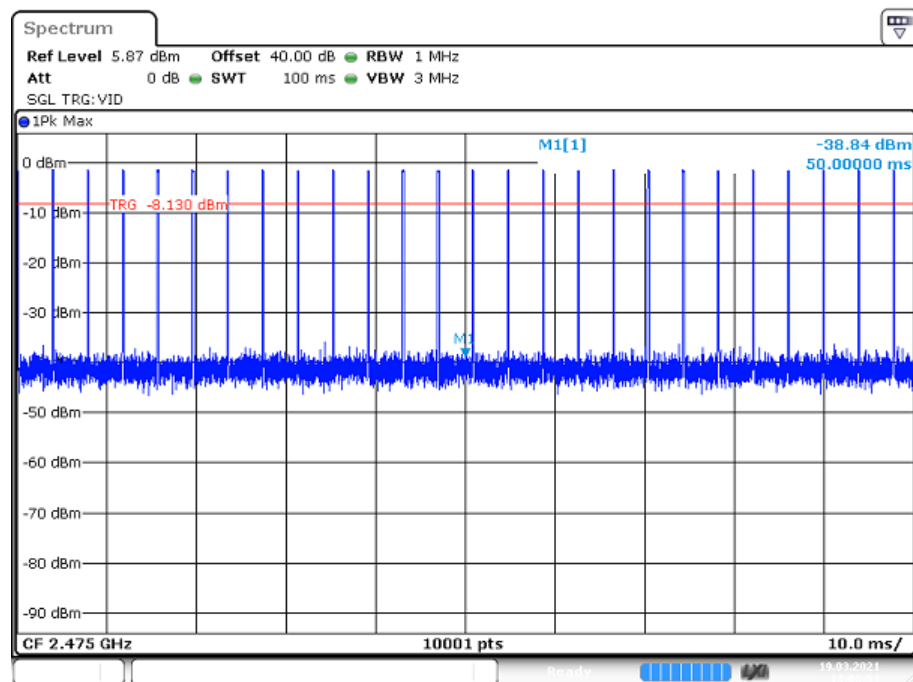
TC Start	19.03.2021 12:58:00
Ambit Temp [°C] Humidity [rel%]	0.0 0
System Version	2.0.0.4
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	None
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.87 40 0
Start [MHz] Stop [MHz]	2475.000 2475.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	100 0 10001 SWE



Date: 19 MAR 2021 13:08:53

HC_19032021_125802.png

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	50.000	ms	Information

RESULT

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

TEST FINISHED
General Verdict

INFO

3. Hardcopy Spectrum Analyzer ~

Test References

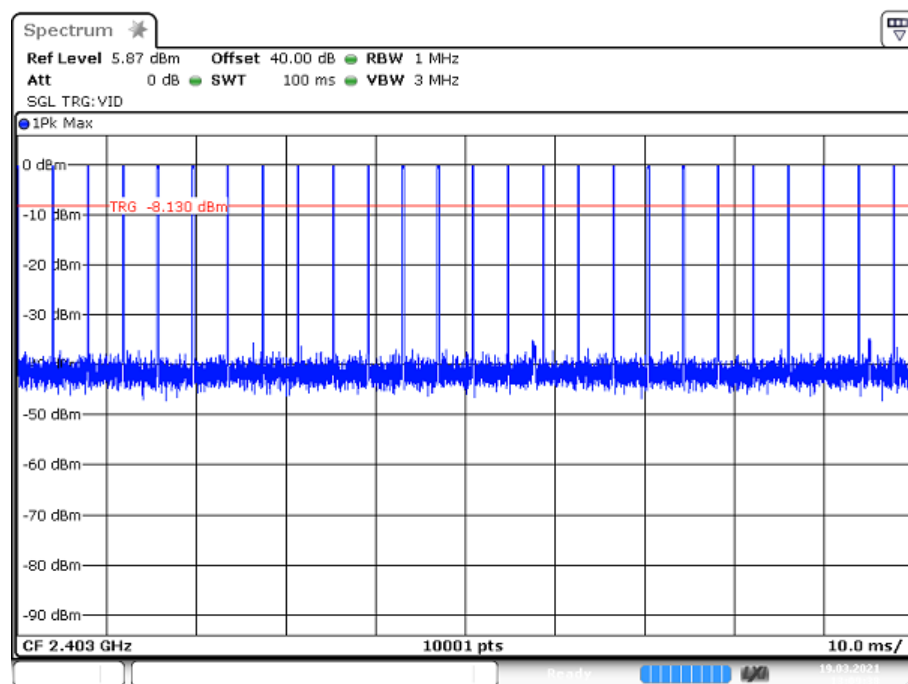
TC Start	19.03.2021 12:58:46
Ambit Temp [°C] Humidity [rel%]	0.0 0
System Version	2.0.0.4
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	None
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.87 40 0
Start [MHz] Stop [MHz]	2403.000 2403.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	100 0 10001 SWE



Date: 19 MAR 2021 13:09:39

HC_19032021_125848.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

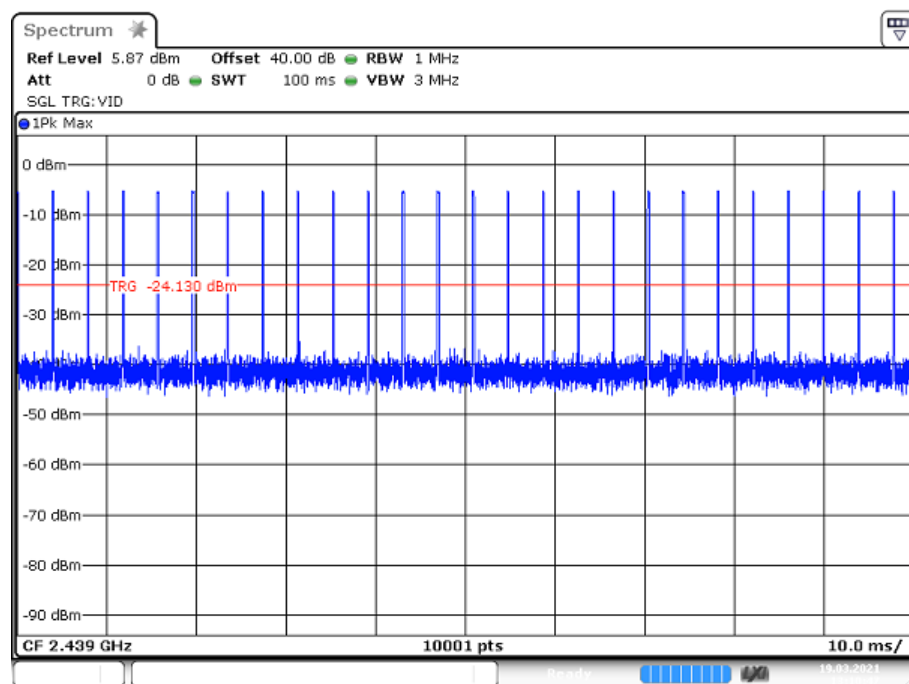
INFO

4. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	19.03.2021 12:59:55
Ambit Temp [°C] Humidity [rel%]	0.0 0
System Version	2.0.0.4
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	None
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.87 40 0
Start [MHz] Stop [MHz]	2439.000 2439.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	100 0 10001 SWE



Date: 19 MAR 2021 13:10:48

HC_19032021_125957.png

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

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict

Delta Marker Readout

TEST FINISHED

General Verdict

INFO

5. Hardcopy Spectrum Analyzer ~

Test References

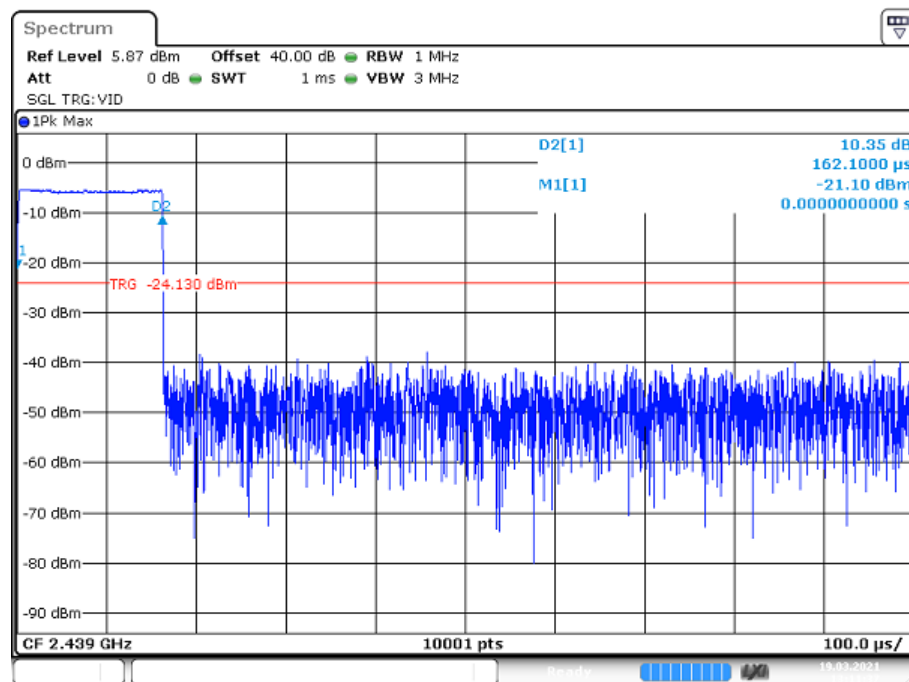
TC Start	19.03.2021 13:00:44
Ambit Temp [°C] Humidity [rel%]	0.0 0
System Version	2.0.0.4
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	None
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.87 40 0
Start [MHz] Stop [MHz]	2439.000 2439.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 0 10001 SWE



HC_19032021_130046.png

RESULT

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

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	0.162	ms	Information
Delta Marker 2 Level	---	---	10.352	dB	Information

TEST FINISHED					
General Verdict				INFO	

6. Hardcopy Spectrum Analyzer ~

Test References

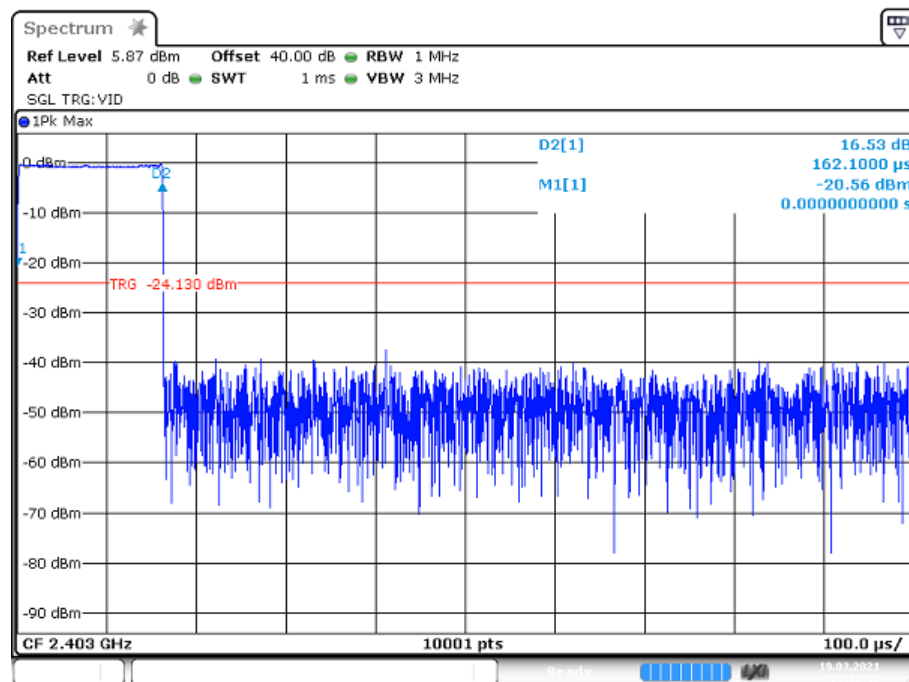
TC Start	19.03.2021 13:01:19
Ambit Temp [°C] Humidity [rel%]	0.0 0
System Version	2.0.0.4
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter

Technology to test	
Switched Path	None
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.87 40 0
Start [MHz] Stop [MHz]	2403.000 2403.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 0 10001 SWE



Date: 19 MAR 2021 13:12:12

HC_19032021_130121.png

RESULT

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

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	0.162	ms	Information
Delta Marker 2 Level	---	---	16.527	dB	Information

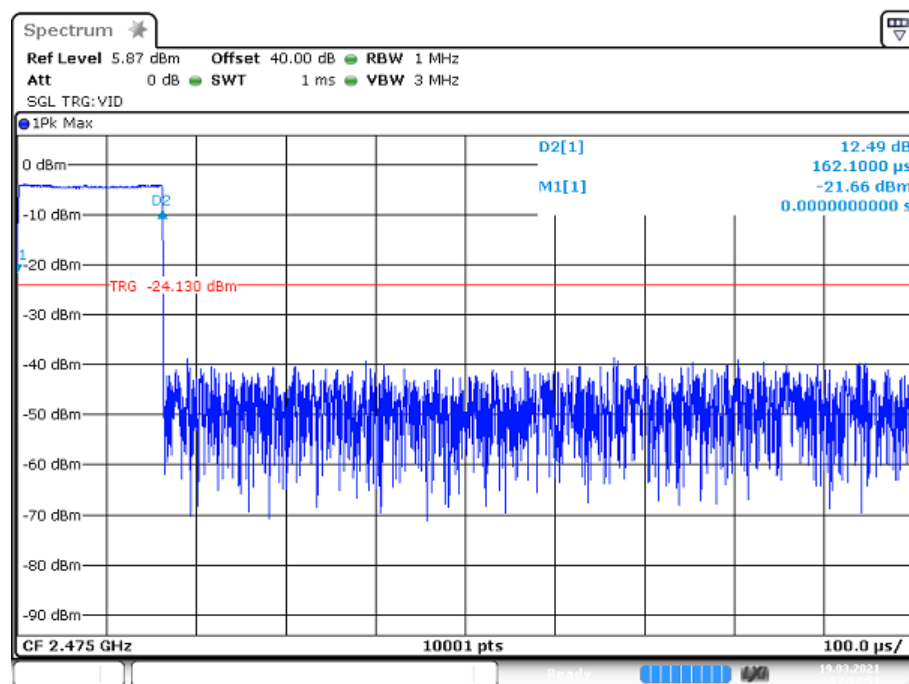
TEST FINISHED					
General Verdict				INFO	

7. Hardcopy Spectrum Analyzer ~

Test References	
TC Start	19.03.2021 13:01:58
Ambit Temp [°C] Humidity [rel%]	0.0 0
System Version	2.0.0.4
Test Specification	None
Test Method	
TC Version	0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	

Test Parameter	
Technology to test	
Switched Path	None
Devices in use	SA: Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.87 40 0
Start [MHz] Stop [MHz]	2475.000 2475.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 0 10001 SWE



Date: 19 MAR 2021 13:12:51

HC_19032021_130200.png

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Time	---	---	0.000	ms	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Time	---	---	0.162	ms	Information
Delta Marker 2 Level	---	---	12.494	dB	Information

TEST FINISHED					
General Verdict				INFO	

- END OF DOCUMENT -