Measurement Results

1-7794/18-01-06_Annex_MR_A_1

Test logging

This addendum is electronically signed and valid without handwritten signature.
For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Document authorized:

cn=Joerg Warken, o=CTC advanced GmbH, ou=WAK-281116, email=joerg.warken@ctcadvanced.com, c=DE
2019.05.15 14:00:08 +02'00'

Jörg Warken
Lab Manager
Radio Communications & EMC

Table of Content

IUT Summary

IUT DEFINITION	
Manufacturer	Sennheiser electronic GmbH & Co. KG
Type	RX Pedal
Serial No.	NI
Setup No.	NI
SW Version	0.041
HW Version	580842
Comment 1	NI
Comment 2	NI

IUT Common Settings	
Tlow [°C]	-10
Tmid [°C]	23
Thigh [°C]	55
Vlow [V]	9
Vmid [V]	12
Vhigh [V]	15
Imax [A]	1
Auto Control enabled Power Supply | Climatic Box	Yes | Yes
Antenna Gain [dBi]	0
Additional Path Loss [dB]	1.2

IUT Common Settings 2G4 Init Values from IUT file	
Hopping supported	No
Frequency low [MHz]	2403
Frequency mid [MHz]	2443
Frequency high [MHz]	2481
Burst length [ms]	1
Nominal Bandwidth [MHz]	1.5
User Interaction	Yes

1. FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ Generic 2G4

Test References	
TC Start	14.05.2019 10:34:13
System Version	1.0.0.15
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth
Class / TC Version / TC ID	TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01 Version: 0.0.1 | TCID_FCC15247_3
My Description	FCC 15.247 Maximum Peak Output Power Conducted DTS4 - Generic 2G4
Add. Information	

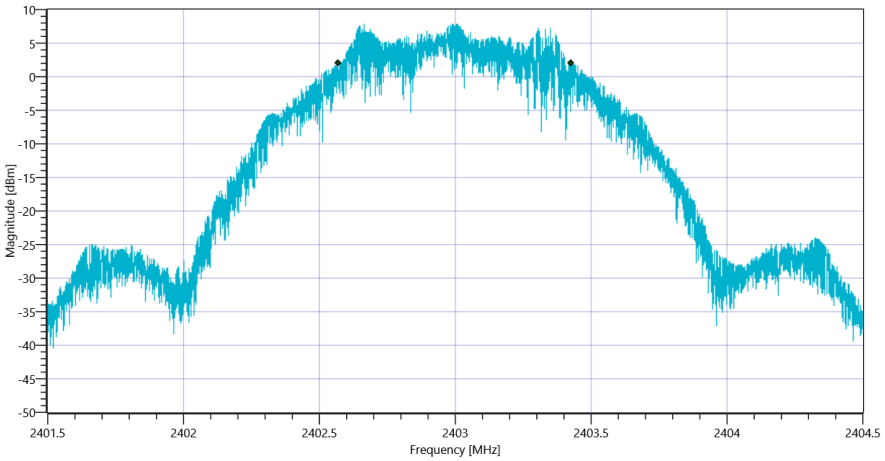
Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 2403
Frequency mid to test	True | Freq [MHz] 2443
Frequency high to test	True | Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.70 | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

Test at TX 2403 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	12.80
Ref. Lev. offs [dB]	11
Input Attenuation [dB]	20
Freq. Start [MHz]	2401.500
Freq. Stop [MHz]	2404.500
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	10001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: DTS Bandwidth

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	---	---	858	kHz	Information



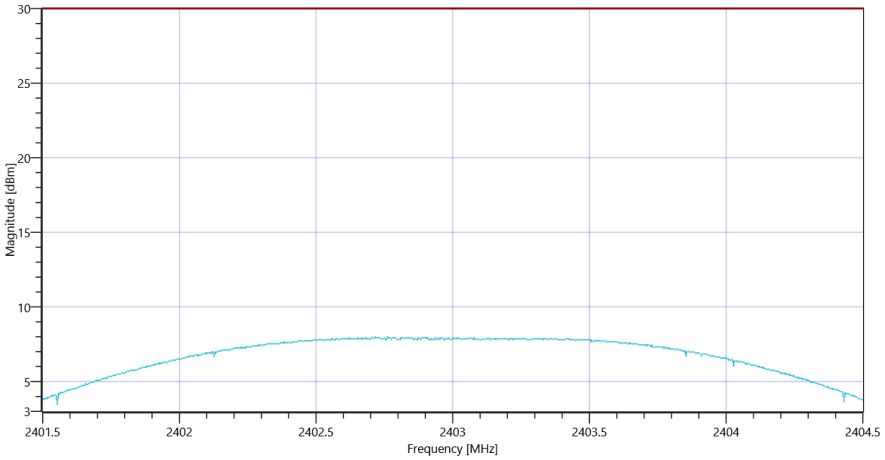
Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ Generic 2G4 DTS BW _14052019_103457.png

READ SA SETTINGS:	
Ref. Level [dBm]	17.80
Ref. Lev. offs [dB]	11
Input Attenuation [dB]	25
Freq. Start [MHz]	2401.500
Freq. Stop [MHz]	2404.500
Resolution BW. [MHz]	2.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	1001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	7.97	dBm	PASS
Peak Power	---	1000	6.266139	mW	PASS

Frequency at Peak	---	---	2402.718	MHz	Information



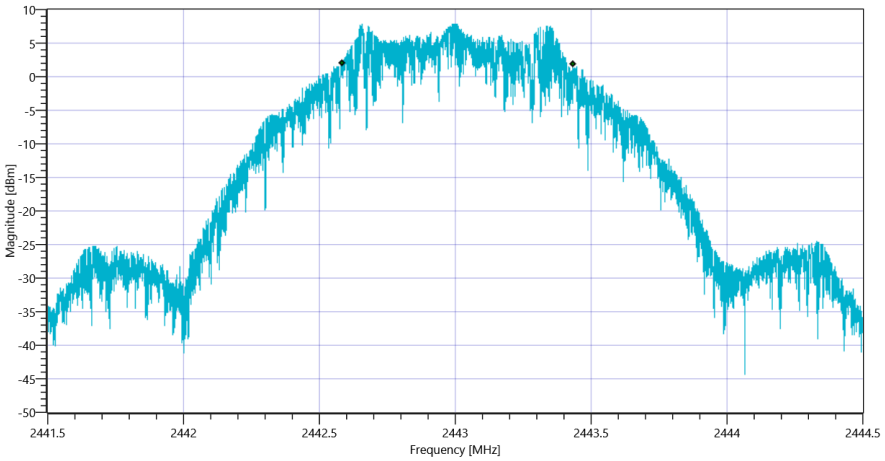
Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ Generic 2G4_14052019_103512.png

Test at TX 2443 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	12.76
Ref. Lev. offs [dB]	11.11
Input Attenuation [dB]	20
Freq. Start [MHz]	2441.500
Freq. Stop [MHz]	2444.500
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	10001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: DTS Bandwidth

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	---	---	849	kHz	Information



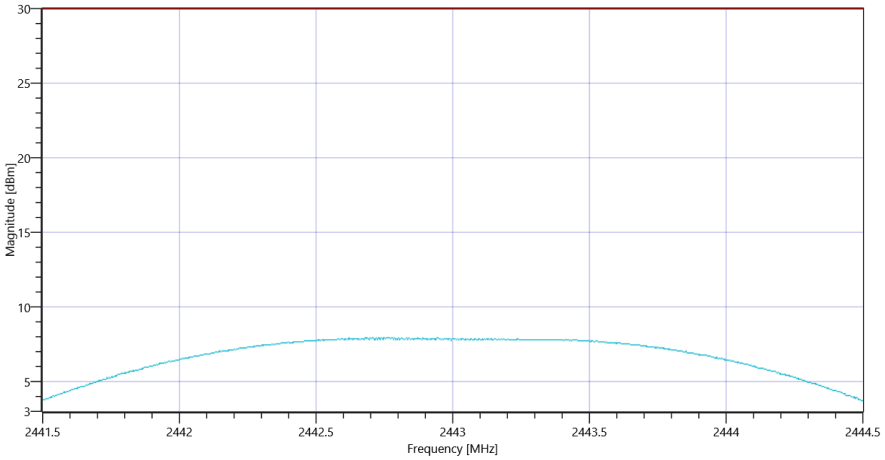
Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ Generic 2G4 DTS BW _14052019_103550.png

READ SA SETTINGS:	
Ref. Level [dBm]	17.76
Ref. Lev. offs [dB]	11.11
Input Attenuation [dB]	25
Freq. Start [MHz]	2441.500
Freq. Stop [MHz]	2444.500
Resolution BW. [MHz]	2.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	1001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	7.94	dBm	PASS
Peak Power	---	1000	6.223003	mW	PASS

Frequency at Peak	---	---	2442.721	MHz	Information



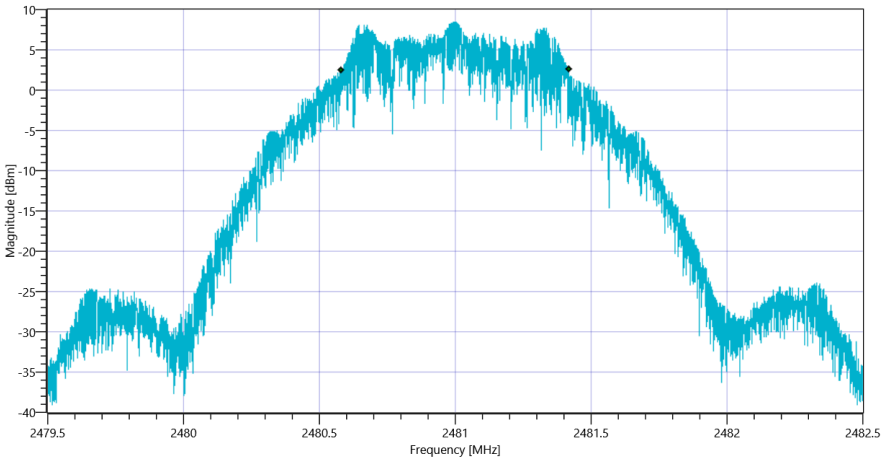
Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ Generic 2G4_14052019_103605.png

Test at TX 2481 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	13.37
Ref. Lev. offs [dB]	11.16
Input Attenuation [dB]	20
Freq. Start [MHz]	2479.500
Freq. Stop [MHz]	2482.500
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	10001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: DTS Bandwidth

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	---	---	839	kHz	Information



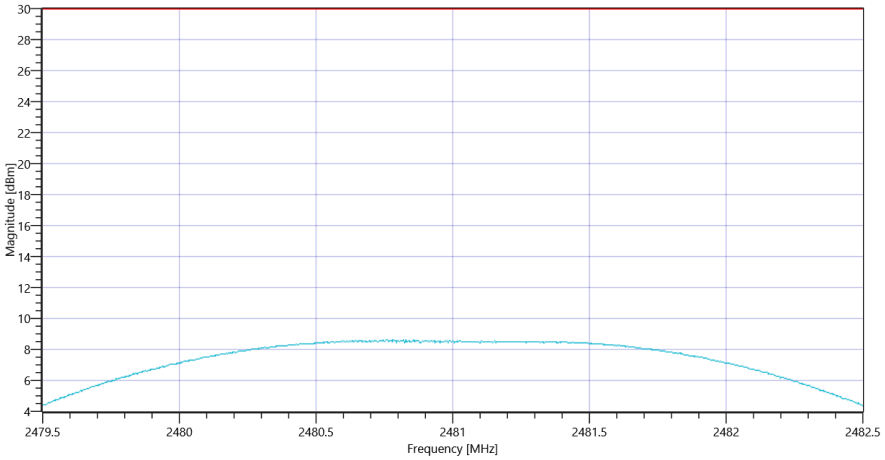
Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ Generic 2G4 DTS BW _14052019_103647.png

READ SA SETTINGS:	
Ref. Level [dBm]	18.37
Ref. Lev. offs [dB]	11.16
Input Attenuation [dB]	25
Freq. Start [MHz]	2479.500
Freq. Stop [MHz]	2482.500
Resolution BW. [MHz]	2.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	1001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Maximum_Peak_Conducted_Output_Power_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peak Power	---	30.00	8.6	dBm	PASS
Peak Power	---	1000	7.24436	mW	PASS

Frequency at Peak	---	---	2480.757	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ Generic 2G4_14052019_103702.png

TEST FINISHED		
General Verdict	14.05.2019 10:37:02 / RT: 169 s	PASS

2. FCC Part 15.247 Bandwidth 6dB DTS ~ Generic 2G4

Test References	
TC Start	14.05.2019 10:37:06
System Version	1.0.0.15
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.2 DTS Bandwidth
Class / TC Version / TC ID	TC_VM_FCC15247_Bandwidth_6dB_DTS_V01 Version: 0.0.1 | TCID_FCC15247_1
My Description	FCC 15.247 Bandwidth 6dB DTS - Generic 2G4
Add. Information	

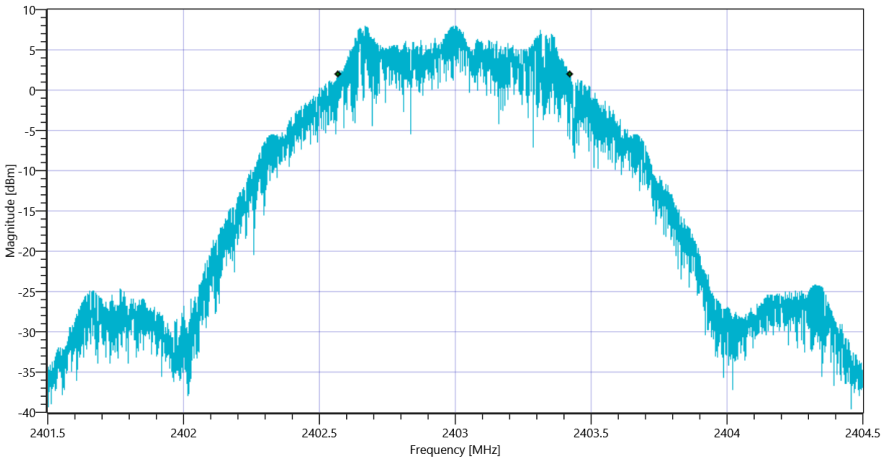
Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 2403
Frequency mid to test	True | Freq [MHz] 2443
Frequency high to test	True | Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.70 | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

Test at TX 2403 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	12.86
Ref. Lev. offs [dB]	11
Input Attenuation [dB]	20
Freq. Start [MHz]	2401.500
Freq. Stop [MHz]	2404.500
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	10001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_6dB_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500	---	854	kHz	PASS



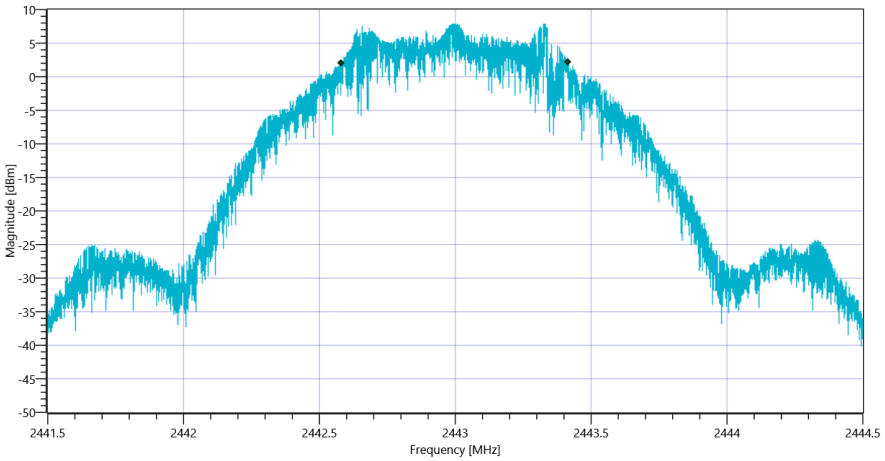
Plot_FCC Part 15.247 Bandwidth 6dB DTS ~ Generic 2G4_14052019_103812.png

Test at TX 2443 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	12.75
Ref. Lev. offs [dB]	11.11
Input Attenuation [dB]	20
Freq. Start [MHz]	2441.500
Freq. Stop [MHz]	2444.500
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	10001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_6dB_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500	---	834	kHz	PASS



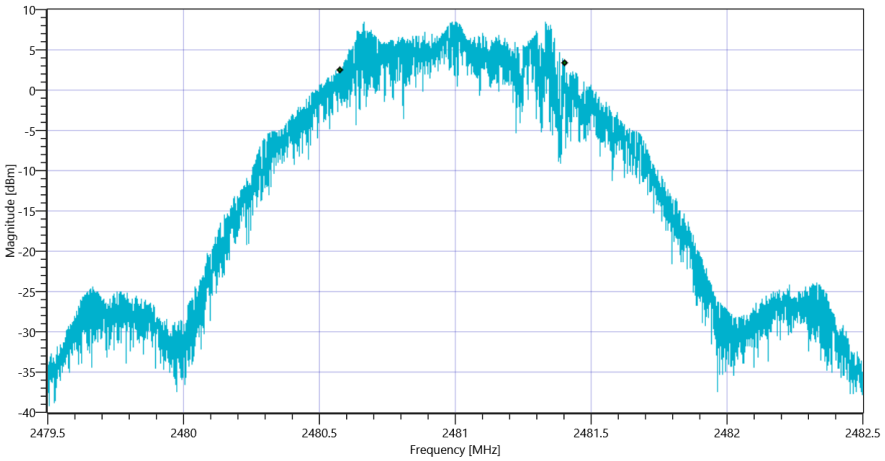
Plot_FCC Part 15.247 Bandwidth 6dB DTS ~ Generic 2G4_14052019_103850.png

Test at TX 2481 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	13.37
Ref. Lev. offs [dB]	11.16
Input Attenuation [dB]	20
Freq. Start [MHz]	2479.500
Freq. Stop [MHz]	2482.500
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	10001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_6dB_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500	---	827	kHz	PASS



Plot_FCC Part 15.247 Bandwidth 6dB DTS ~ Generic 2G4_14052019_103936.png

TEST FINISHED		
General Verdict	14.05.2019 10:39:36 / RT: 149 s	PASS

3. FCC Part 15.247 Peak Power Spectral Density DTS ~ Generic 2G4

Test References	
TC Start	14.05.2019 10:39:40
System Version	1.0.0.15
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - Chapter 8.4 DTS maximum power spectral density level in the fundamental emission
Class / TC Version / TC ID	TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01 Version: 0.0.1 | TCID_FCC15247_6
My Description	FCC 15.247 Peak Power Spectral Density DTS - Generic 2G4
Add. Information	

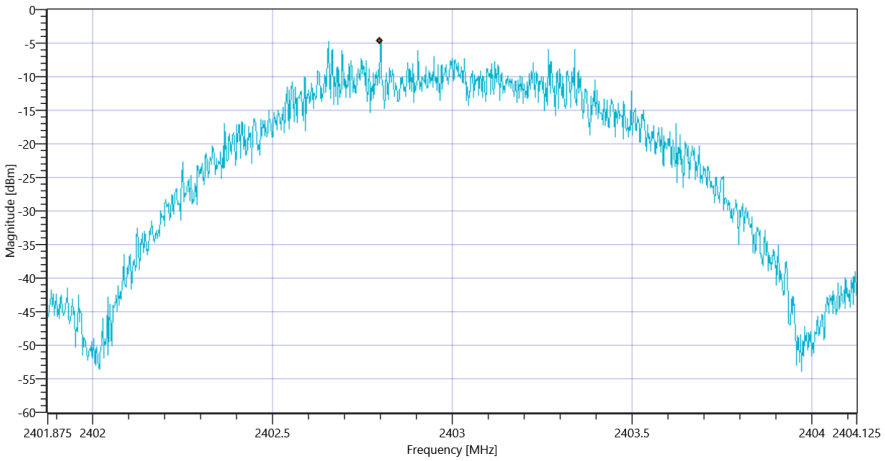
Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 2403
Frequency mid to test	True | Freq [MHz] 2443
Frequency high to test	True | Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.70 | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

Test at TX 2403 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	12.90
Ref. Lev. offs [dB]	11
Input Attenuation [dB]	20
Freq. Start [MHz]	2401.875
Freq. Stop [MHz]	2404.125
Resolution BW. [MHz]	0.003000
Video BW. [MHz]	0.010000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	100
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-4.7	dBm/3KHz	PASS



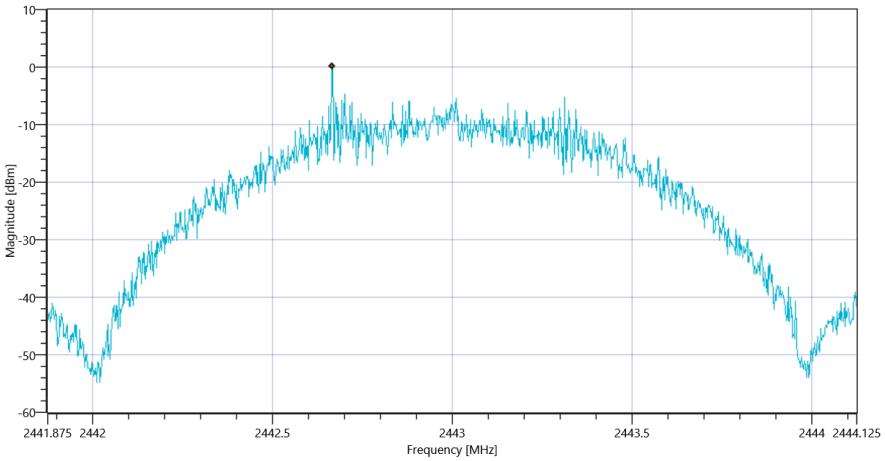
Plot_FCC Part 15.247 Peak Power Spectral Density DTS ~ Generic 2G4_14052019_104201.png

Test at TX 2443 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	12.75
Ref. Lev. offs [dB]	11.11
Input Attenuation [dB]	20
Freq. Start [MHz]	2441.875
Freq. Stop [MHz]	2444.125
Resolution BW. [MHz]	0.003000
Video BW. [MHz]	0.010000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	100
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	0.04	dBm/3KHz	PASS



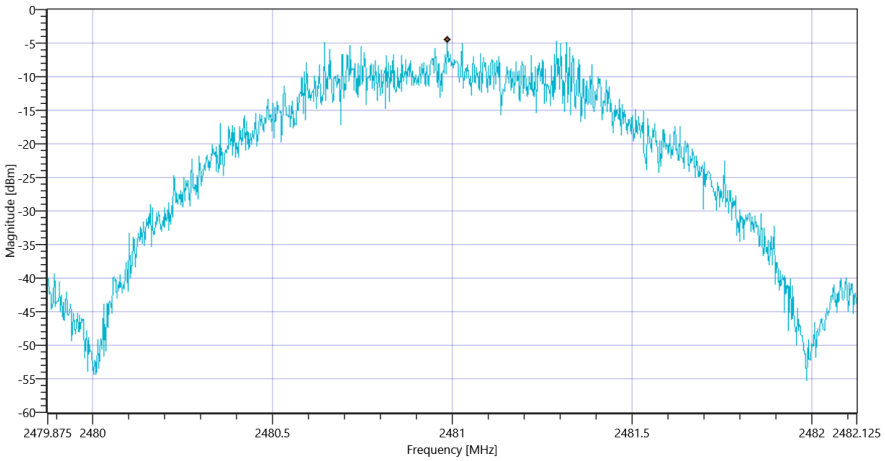
Plot_FCC Part 15.247 Peak Power Spectral Density DTS ~ Generic 2G4_14052019_104428.png

Test at TX 2481 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	13.39
Ref. Lev. offs [dB]	11.16
Input Attenuation [dB]	20
Freq. Start [MHz]	2479.875
Freq. Stop [MHz]	2482.125
Resolution BW. [MHz]	0.003000
Video BW. [MHz]	0.010000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	100
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Peak_Power_Spectral_Density_DTS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max Peak power Density	---	8	-4.55	dBm/3KHz	PASS



Plot_FCC Part 15.247 Peak Power Spectral Density DTS ~ Generic 2G4_14052019_104639.png

TEST FINISHED		
General Verdict	14.05.2019 10:46:39 / RT: 419 s	PASS

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

Test References	
TC Start	14.05.2019 10:46:43
System Version	1.0.0.15
Test Specification	FCC Part 15.247
Test Method	
Class / TC Version / TC ID	TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01 Version: 0.0.2 | TCID_FCC15247_2
My Description	FCC 15.247 Bandwidth 99PCT-20dB DTS - Generic 2G4
Add. Information	

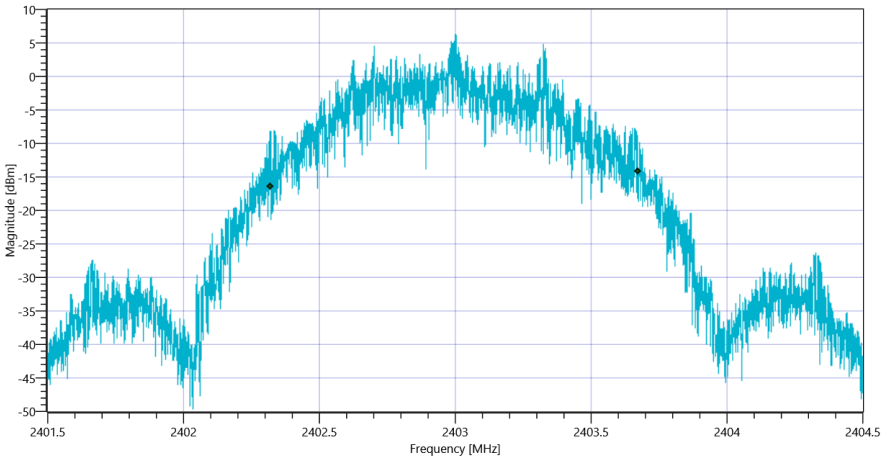
Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 2403
Frequency mid to test	True | Freq [MHz] 2443
Frequency high to test	True | Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.70 | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

Test at TX 2403 MHz

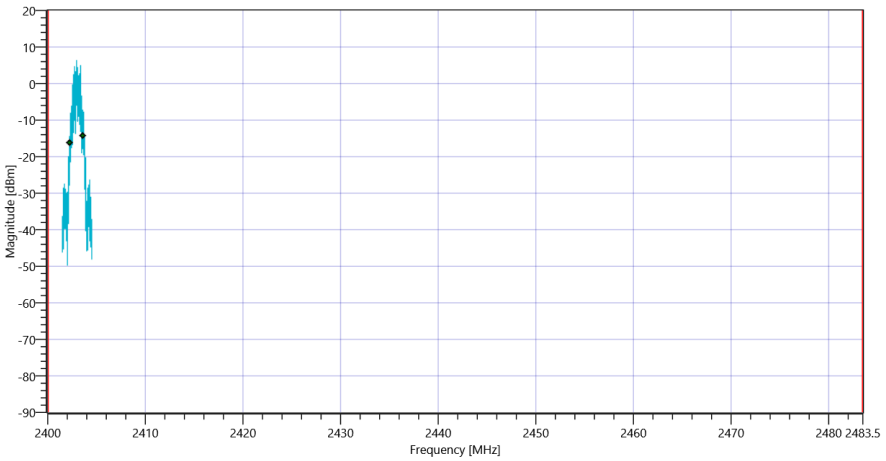
READ SA SETTINGS:	
Ref. Level [dBm]	12.88
Ref. Lev. offs [dB]	11
Input Attenuation [dB]	20
Freq. Start [MHz]	2401.500
Freq. Stop [MHz]	2404.500
Resolution BW. [MHz]	0.030000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	10001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1352	kHz	Information
T1 99%	2400.000000	---	2402.3212	MHz	PASS
T2 99%	---	2483.500000	2403.6731	MHz	PASS

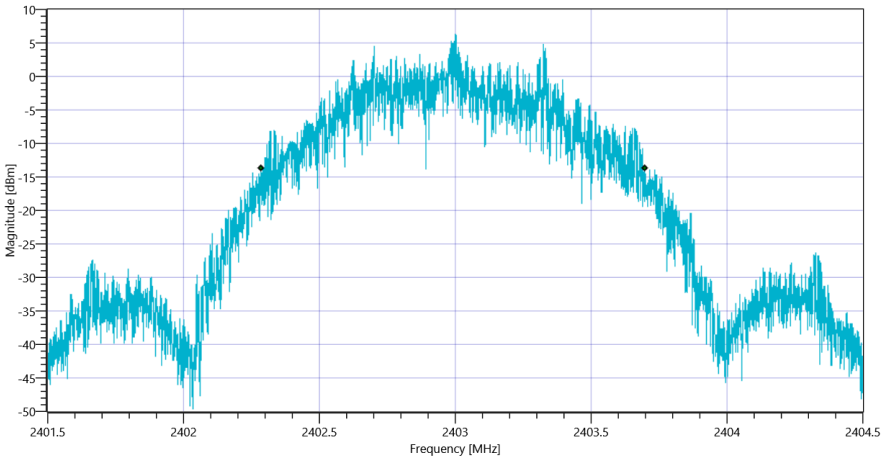


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_14052019_104734.png

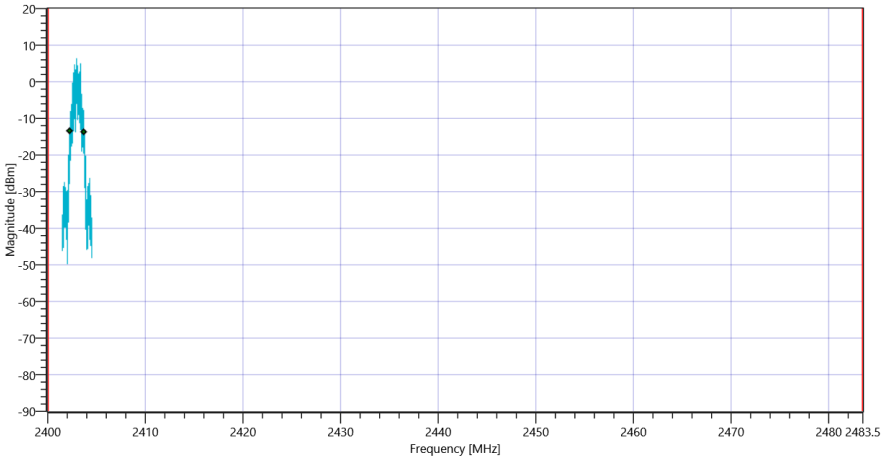


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_14052019_104737.png

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1412	kHz	Information
T1 20dB	2400.000000	---	2402.2857	MHz	PASS
T2 20dB	---	2483.500000	2403.6975	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_14052019_104741.png



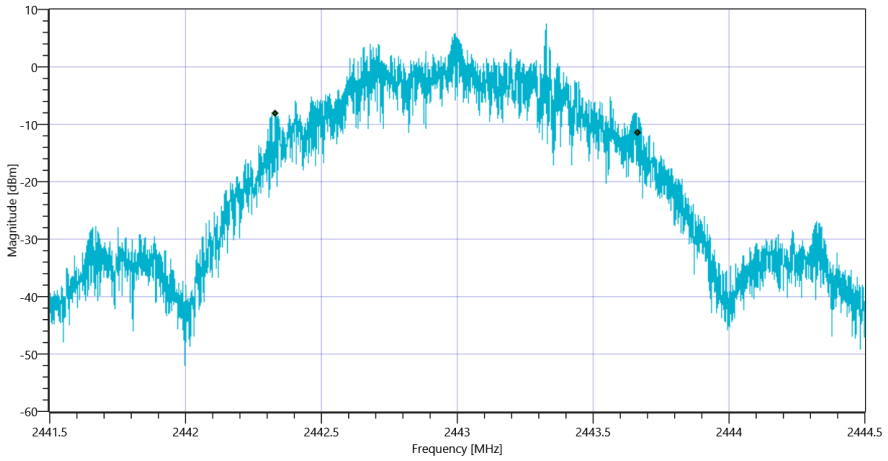
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_14052019_104744.png

Test at TX 2443 MHz

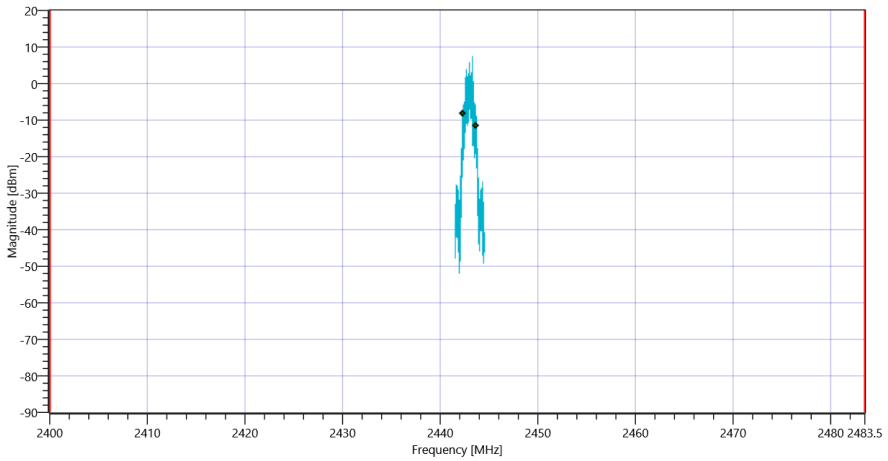
READ SA SETTINGS:	
Ref. Level [dBm]	12.73
Ref. Lev. offs [dB]	11.11
Input Attenuation [dB]	20
Freq. Start [MHz]	2441.500
Freq. Stop [MHz]	2444.500
Resolution BW. [MHz]	0.030000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	10001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1335	kHz	Information
T1 99%	2400.000000	---	2442.3293	MHz	PASS
T2 99%	---	2483.500000	2443.6641	MHz	PASS

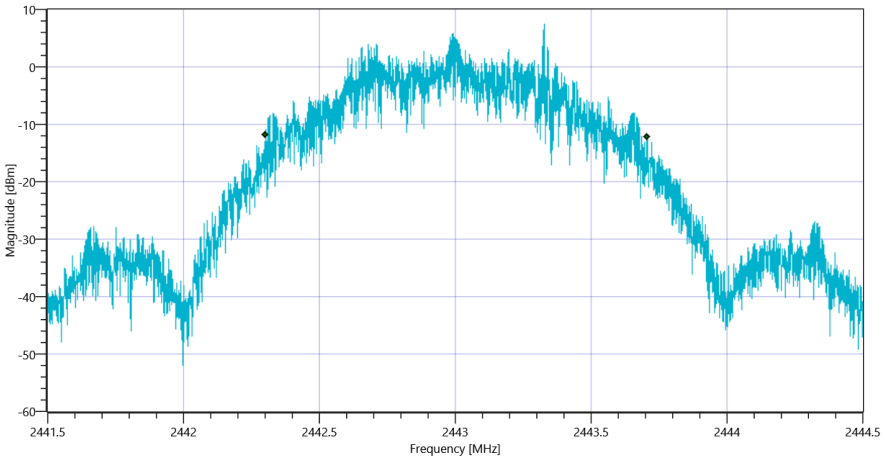


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_14052019_104826.png

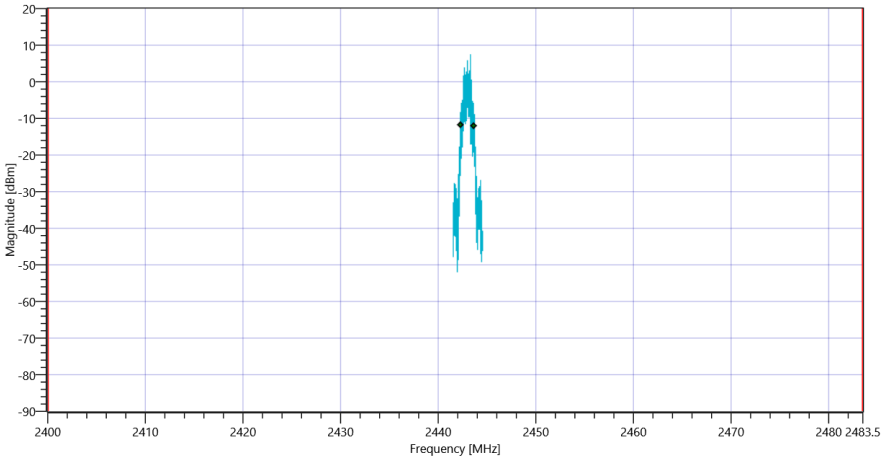


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_14052019_104829.png

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1405	kHz	Information
T1 20dB	2400.000000	---	2442.3019	MHz	PASS
T2 20dB	---	2483.500000	2443.7068	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_14052019_104832.png



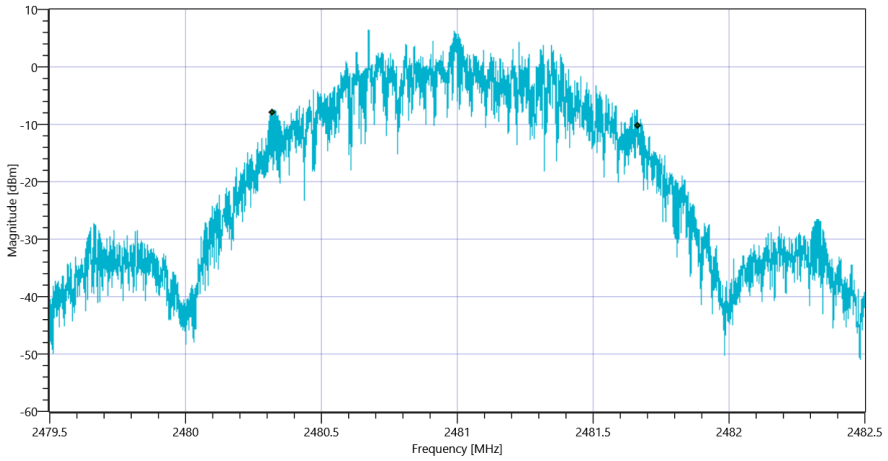
Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_14052019_104835.png

Test at TX 2481 MHz

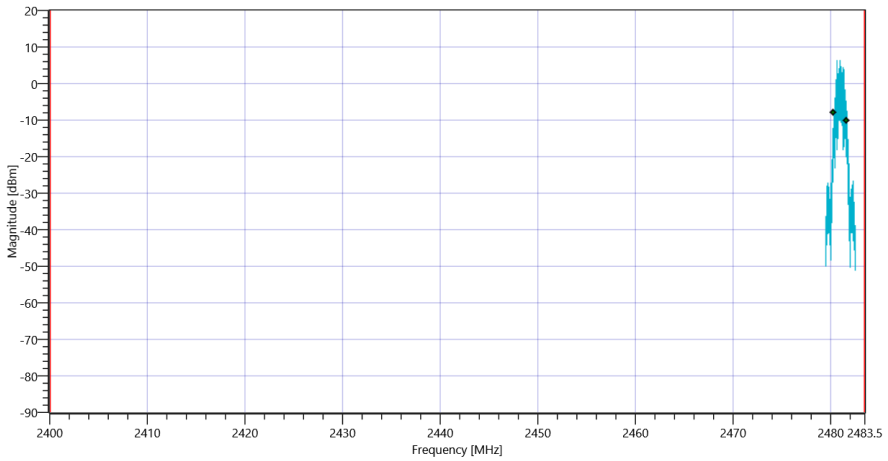
READ SA SETTINGS:	
Ref. Level [dBm]	13.38
Ref. Lev. offs [dB]	11.16
Input Attenuation [dB]	20
Freq. Start [MHz]	2479.500
Freq. Stop [MHz]	2482.500
Resolution BW. [MHz]	0.030000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	10001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	1347	kHz	Information
T1 99%	2400.000000	---	2480.3197	MHz	PASS
T2 99%	---	2483.500000	2481.6665	MHz	PASS

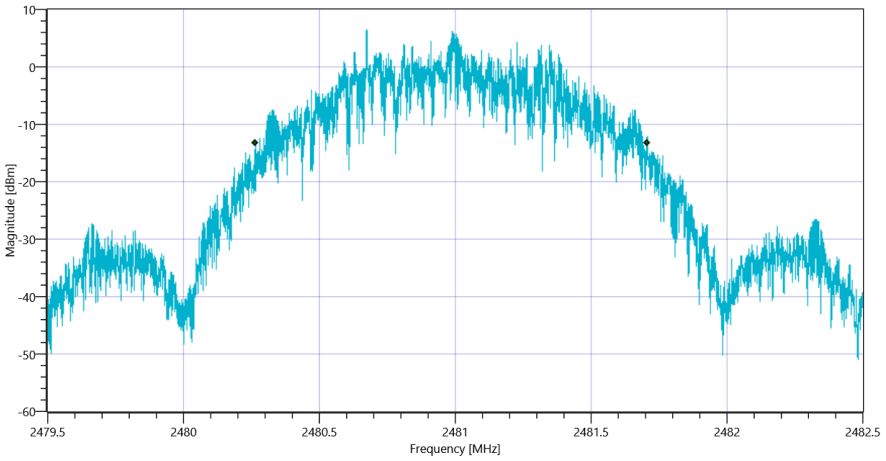


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 99PCT_14052019_104913.png

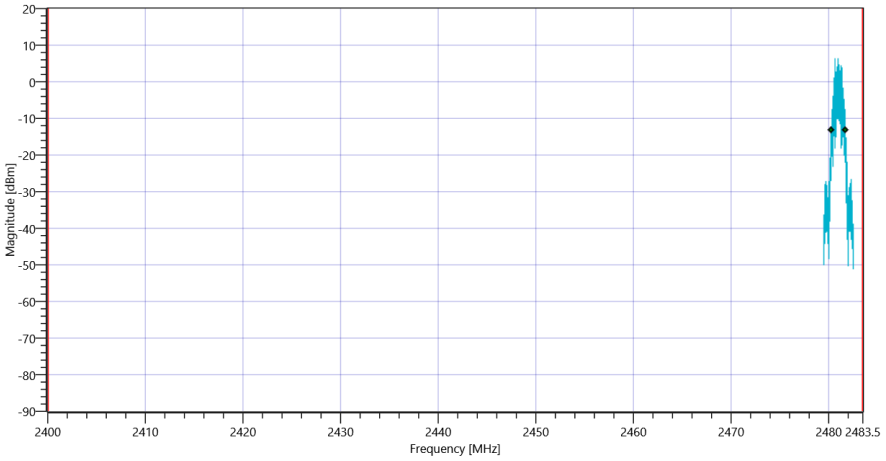


Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_14052019_104916.png

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	---	---	1443	kHz	Information
T1 20dB	2400.000000	---	2480.2644	MHz	PASS
T2 20dB	---	2483.500000	2481.7071	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4 20dB_14052019_104920.png



Plot_FCC Part 15.247 Bandwidth 99PCT-20dB ~ Generic 2G4_14052019_104923.png

TEST FINISHED		
General Verdict	14.05.2019 10:49:23 / RT: 160 s	PASS

5. FCC Part 15.247 TX Spurious Conduced ~ Generic 2G4

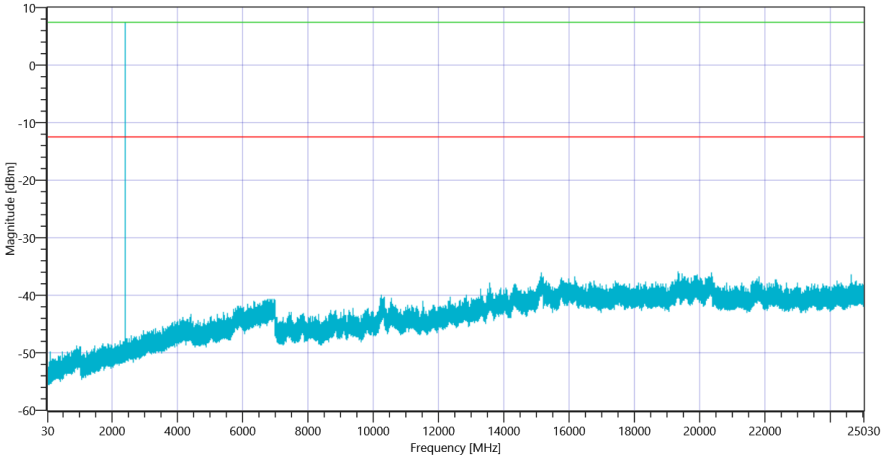
Test References	
TC Start	14.05.2019 10:51:17
System Version	1.0.0.15
Test Specification	FCC Part 15.247
Test Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable.
Class / TC Version / TC ID	TC_VM_FCC15247_TX_Emissions_Conducted_V01 Version: 0.0.1 | TCID_FCC15247_8
My Description	FCC 15.247 TX Emissions Conducted DTS - 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
Frequency mid to test	True | Freq [MHz] 2443
Frequency high to test	True | Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.70 | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

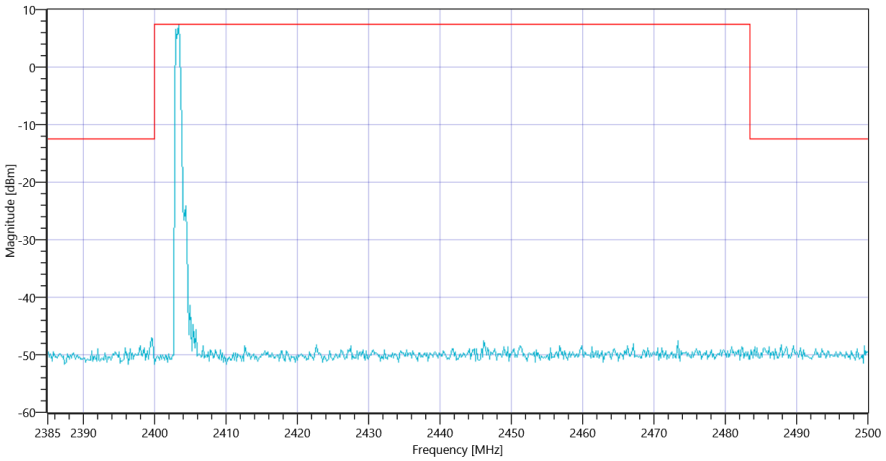
Test at TX 2403 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	13.19
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	500
Sweep Points/Section	3001
Sweep Count	40
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_TX_Emissions_Conducted_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2403.33 MHz	---	---	7.46	dBm	Information
No peaks detected	---	---			PASS



Plot_FCC Part 15.247 TX Spurious Conduced ~ Generic 2G4 2403_14052019_111102.png

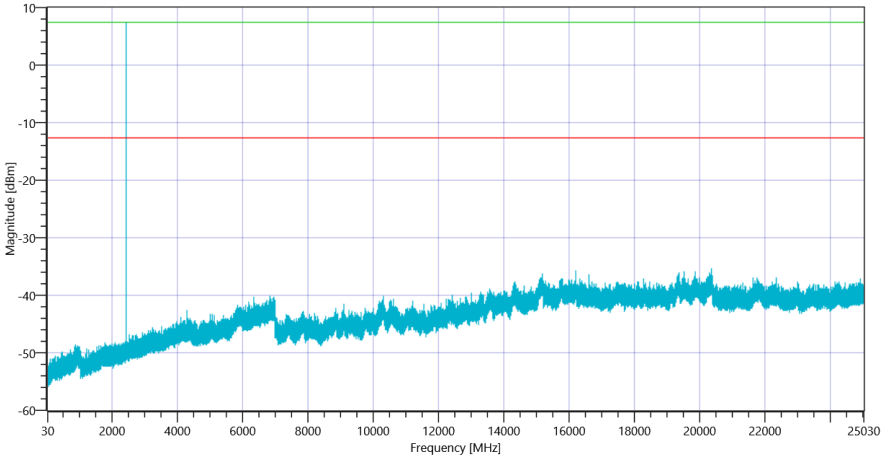


Plot_FCC Part 15.247 TX Spurious Conduced ~ Generic 2G4 2403_14052019_111104.png

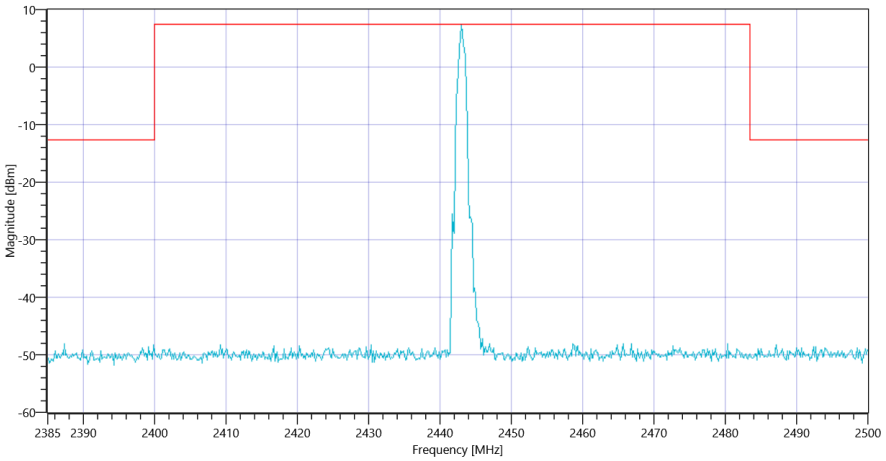
Test at TX 2443 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	13.12
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	500
Sweep Points/Section	3001
Sweep Count	40
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_TX_Emissions_Conducted_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2443.00 MHz	---	---	7.40	dBm	Information
No peaks detected	---	---			PASS



Plot_FCC Part 15.247 TX Spurious Conduced ~ Generic 2G4 2443_14052019_113038.png

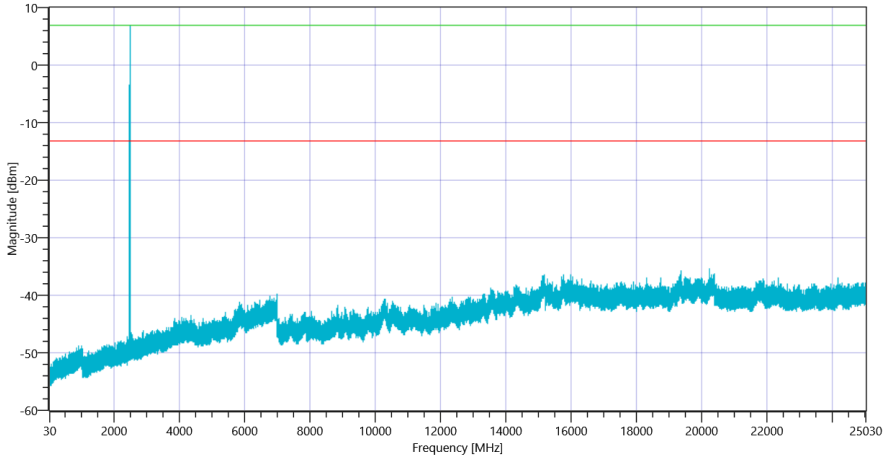


Plot_FCC Part 15.247 TX Spurious Conduced ~ Generic 2G4 2443_14052019_113041.png

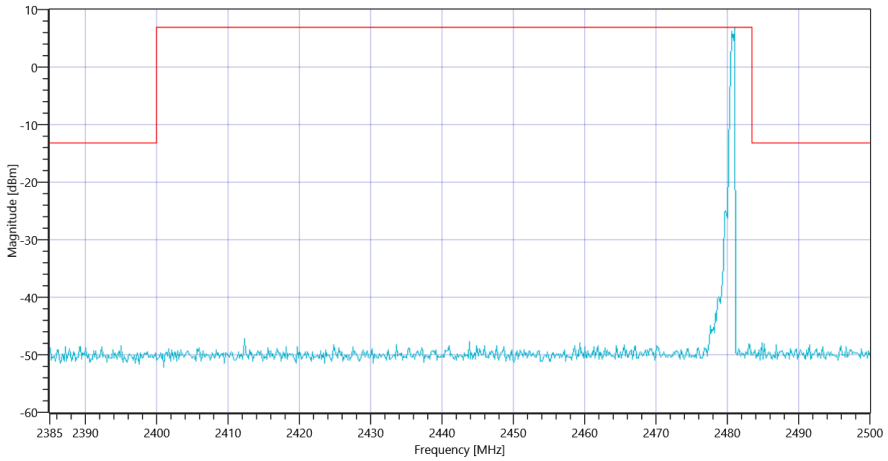
Test at TX 2481 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	13.59
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	500
Sweep Points/Section	3001
Sweep Count	40
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_TX_Emissions_Conducted_V01					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2481.00 MHz	---	---	6.83	dBm	Information
No peaks detected	---	---			PASS



Plot_FCC Part 15.247 TX Spurious Conduced ~ Generic 2G4 2481_14052019_115138.png



Plot_FCC Part 15.247 TX Spurious Conduced ~ Generic 2G4 2481_14052019_115140.png

TEST FINISHED		
General Verdict	14.05.2019 11:51:41 / RT: 3623 s	PASS

6. FCC Part 15.247 Restricted Band Edge Conducted Peak DTS ~ Generic 2G4

Test References	
TC Start	14.05.2019 11:54:00
System Version	1.0.0.15
Test Specification	FCC Part 15.247
Test Method	DTS: KDB 558074 D01 V05 - 8.7.3 Integration Method; ANSI C63.10-2013 11.13.3.2 Peak Detection
Class / TC Version / TC ID	TC_VM_FCC15247_Restricted_Band_Edge_Conducted_Peak_V01 Version: 0.0.1 | TCID_FCC15247_7
My Description	FCC 15.247 Restricted Band Edge Conducted Peak DTS - Generic 2G4
Add. Information	

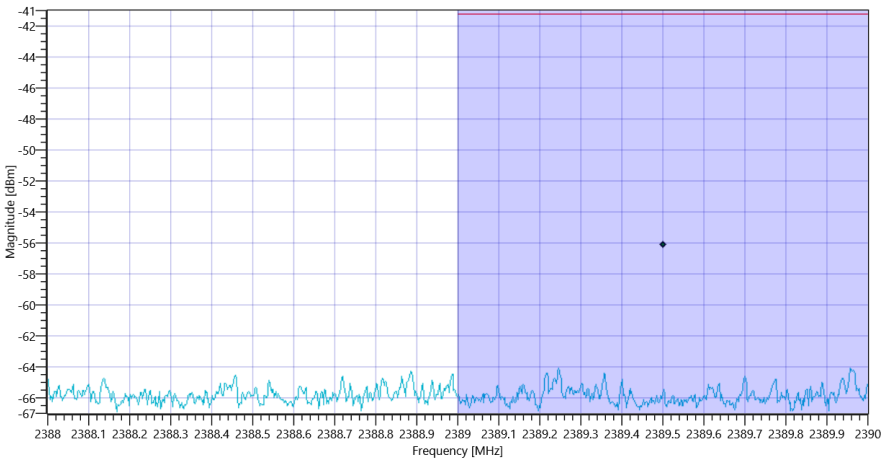
Test Parameter	
Technology to test	Generic 2G4
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True | Freq [MHz] 2403
Frequency mid to test	False | Freq [MHz] 2443
Frequency high to test	True | Freq [MHz] 2481
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.70 | SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40

Test at TX 2403 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	12.89
Ref. Lev. offs [dB]	11
Input Attenuation [dB]	20
Freq. Start [MHz]	2388.000
Freq. Stop [MHz]	2390.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.005000
Detector	POS
Sweep Time [ms]	3
Sweep Points/Section	1001
Sweep Count	2000
Sweep Mode	MAXH
Used Sweep Type	SWE
Marker Method	Band Power

RESULT: TC_VM_FCC15247_Restricted_Band_Edge_Conducted_Peak_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band Power without Antenna Gain	---	-41.23	-56.1	dBm	Information
Band Power incl. Antenna Gain	---	-41.23	-56.1	dBm	PASS



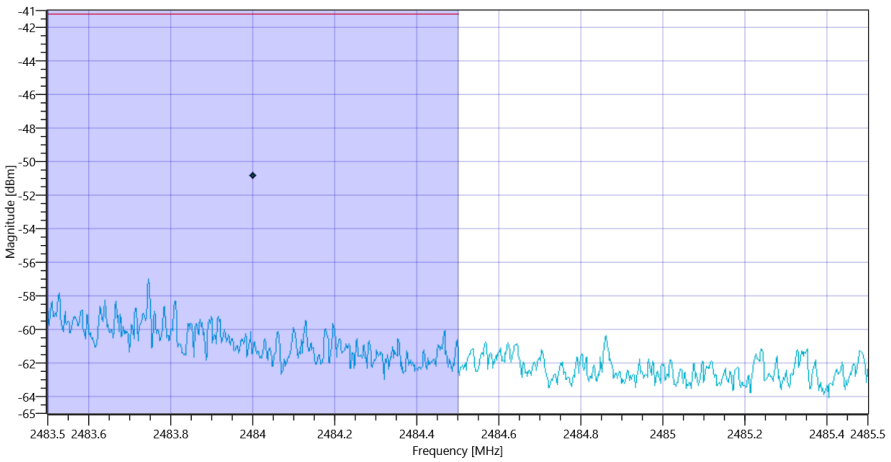
Plot_FCC Part 15.247 Restricted Band Edge Conducted Peak DTS ~ Generic 2G4_14052019_115442.png

Test at TX 2481 MHz

READ SA SETTINGS:	
Ref. Level [dBm]	13.41
Ref. Lev. offs [dB]	11.16
Input Attenuation [dB]	20
Freq. Start [MHz]	2483.500
Freq. Stop [MHz]	2485.500
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.005000
Detector	POS
Sweep Time [ms]	3
Sweep Points/Section	1001
Sweep Count	2000
Sweep Mode	MAXH
Used Sweep Type	SWE
Marker Method	Band Power

RESULT: TC_VM_FCC15247_Restricted_Band_Edge_Conducted_Peak_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band Power without Antenna Gain	---	-41.23	-50.84	dBm	Information
Band Power incl. Antenna Gain	---	-41.23	-50.84	dBm	PASS



Plot_FCC Part 15.247 Restricted Band Edge Conducted Peak DTS ~ Generic 2G4_14052019_115526.png

TEST FINISHED		
General Verdict	14.05.2019 11:55:26 / RT: 85 s	PASS

- END OF DOCUMENT -