

Measurement Results

1-6369/18-02-07_log1_conducted

[Test logging](#)

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IUT Summary

IUT DEFINITION	
Manufacturer	Oticon A/S
Type	Aurora BTE SP
Serial No.	NI
Setup No.	NI
SW Version	IP712.a
HW Version	Final Lab
Comment 1	NI
Comment 2	NI

IUT Common Settings	
Tlow [°C]	0
Tmid [°C]	20
Thigh [°C]	40
Vlow [V]	1.1
Vmid [V]	1.4
Vhigh [V]	1.4
Imax [A]	1
Auto Control enabled Power Supply Climatic Box	No No
Antenna Gain [dBi]	0
Additional Path Loss [dB]	0.8

IUT Common Settings BT Low Energy	
Intermodulation Value N	3
Image Freq. Low Mid High [MHz]	0 0 0
Power Class	2
1 Mbps supported	True TXpayload 255 RXpayload 128
2 Mbps supported	False TXpayload 255 RXpayload 255
Longrange S8 supported	False TXpayload 255 RXpayload 255
Longrange S2 supported	False TXpayload 255 RXpayload 255
Signaling Settings	USB_RS232 HCI 7 B96K None S1 None On
Signaling RF Settings	RF1com 0 0 On
User Interaction	No
Switch Matrix & Pathcompensation enabled	Yes

1. FCC Part 15.247 Maximum Peak Conducted Output Power DTS BT LE 1 Msps

Test References	
TC Start	16.01.2019 10:35:20
System Version	1.0.0.13
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 DTS - BT LE 1 Msps
Add. Information	

Test Parameter	
Technology to test	BT LE 1 Msps
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2402
Frequency mid to test	True Freq [MHz] 2440
Frequency high to test	True Freq [MHz] 2480
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 2402 MHz

RESULT: DTM Connection check

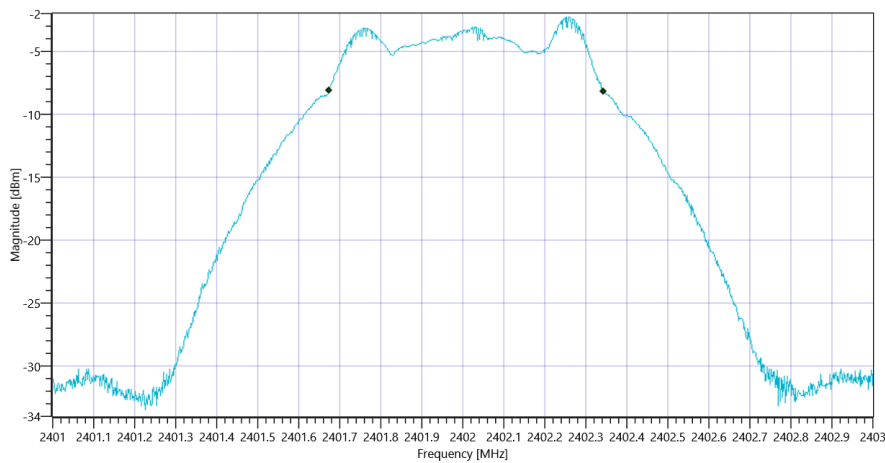
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	--	PASS

READ SA SETTINGS:

Ref. Level [dBm]	2.63
Ref. Lev. offs [dB]	10.59
Input Attenuation [dB]	10
Freq. Start [MHz]	2401.000
Freq. Stop [MHz]	2403.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: DTS Bandwidth

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	---	---	0.67	MHz	Information

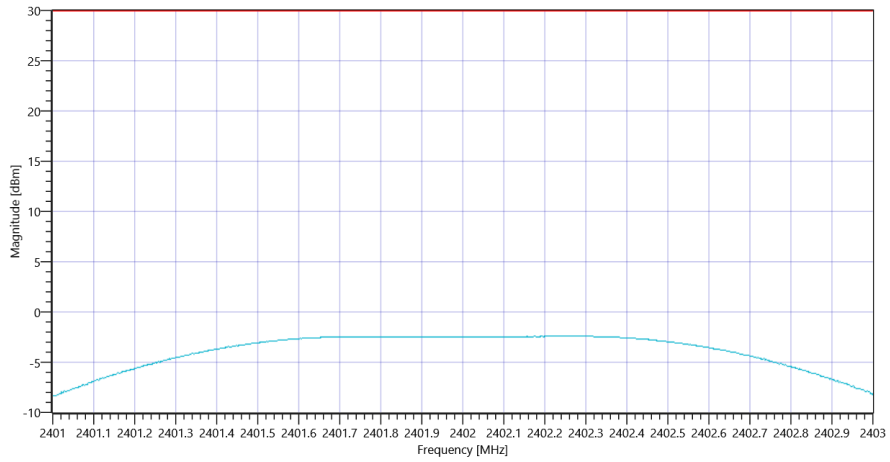


Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS BT LE 1 Msps DTS BW _16012019_103544.png

READ SA SETTINGS:

Ref. Level [dBm]	7.63
Ref. Lev. offs [dB]	10.59
Input Attenuation [dB]	15
Freq. Start [MHz]	2401.000
Freq. Stop [MHz]	2403.000
Resolution BW. [MHz]	1.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
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	-2.41	dBm	PASS
Peak Power	--	1000	0.574116	mW	PASS
Frequency at Peak	--	--	2402.276	MHz	Information



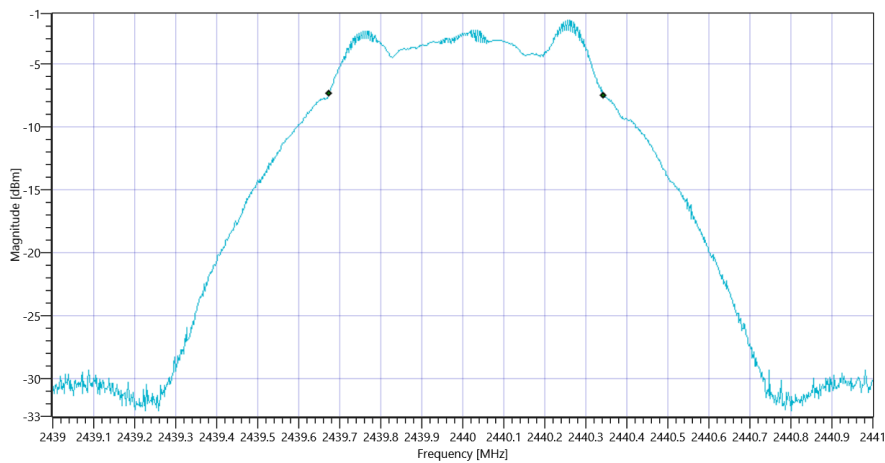
Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS BT LE 1 Msps_16012019_103558.png

Test at TX 2440 MHz

RESULT: DTM Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	--	PASS

READ SA SETTINGS:	
Ref. Level [dBm]	3.43
Ref. Lev. offs [dB]	10.71
Input Attenuation [dB]	10
Freq. Start [MHz]	2439.000
Freq. Stop [MHz]	2441.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

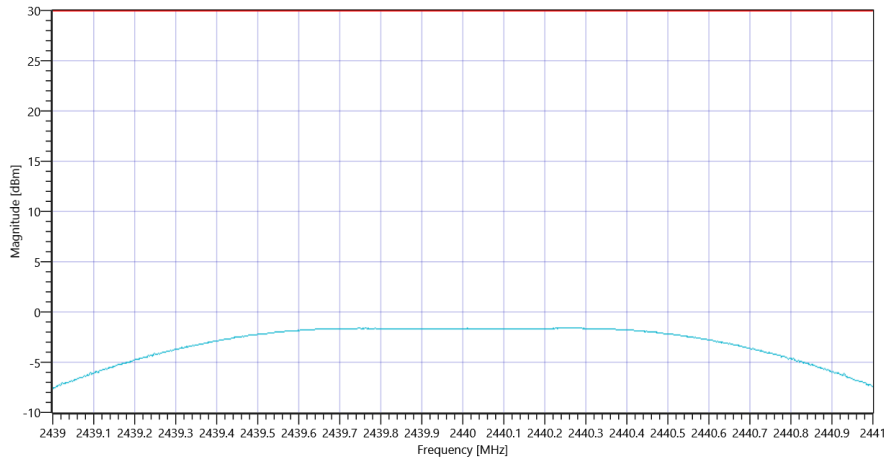
RESULT: DTS Bandwidth					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	---	---	0.67	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS BT LE 1 Msps DTS BW _16012019_103622.png

READ SA SETTINGS:	
Ref. Level [dBm]	8.43
Ref. Lev. offs [dB]	10.71
Input Attenuation [dB]	15
Freq. Start [MHz]	2439.000
Freq. Stop [MHz]	2441.000
Resolution BW. [MHz]	1.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
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	-1.63	dBm	PASS
Peak Power	--	1000	0.687068	mW	PASS
Frequency at Peak	--	--	2440.27	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS BT LE 1 Msps_16012019_103637.png

Test at TX 2480 MHz

RESULT: DTM Connection check

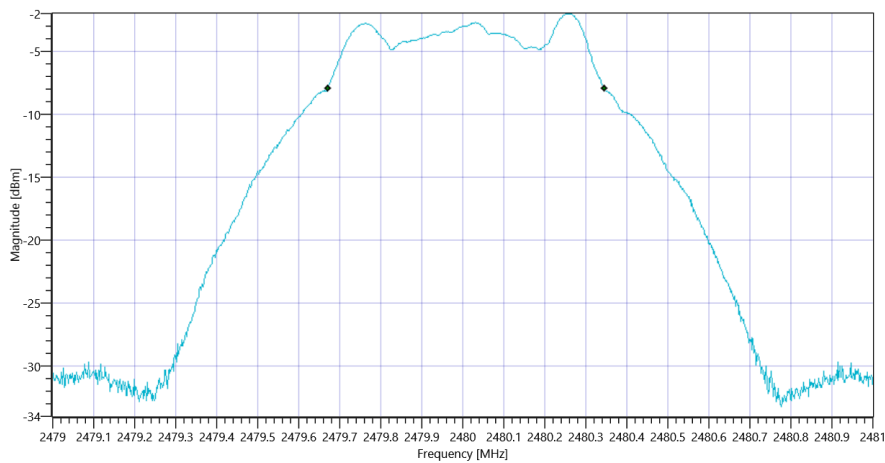
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	--	PASS

READ SA SETTINGS:

Ref. Level [dBm]	3.02
Ref. Lev. offs [dB]	10.76
Input Attenuation [dB]	10
Freq. Start [MHz]	2479.000
Freq. Stop [MHz]	2481.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: DTS Bandwidth

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	---	---	0.674	MHz	Information



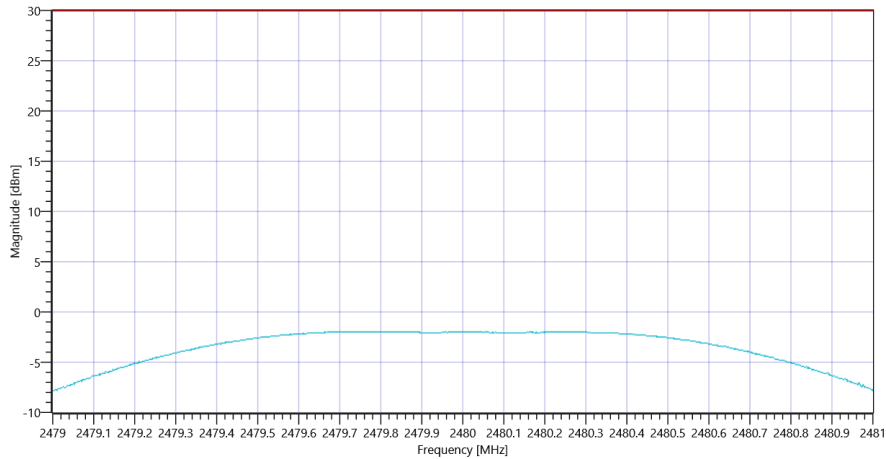
Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS BT LE 1 Msps DTS BW _16012019_103701.png

READ SA SETTINGS:

Ref. Level [dBm]	8.02
Ref. Lev. offs [dB]	10.76
Input Attenuation [dB]	15
Freq. Start [MHz]	2479.000
Freq. Stop [MHz]	2481.000
Resolution BW. [MHz]	1.000000
Video BW. [MHz]	5.000000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
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	-1.98	dBm	PASS
Peak Power	--	1000	0.63387	mW	PASS
Frequency at Peak	--	--	2479.738	MHz	Information



Plot_FCC Part 15.247 Maximum Peak Conducted Output Power DTS BT LE 1 Msps_16012019_103716.png

TEST FINISHED

General Verdict

16.01.2019 10:37:16 / RT: 115 s

PASS

2. FCC Part 15.247 Bandwidth 6dB DTS BT LE 1 Msps

Test References	
TC Start	16.01.2019 10:37:18
System Version	1.0.0.13
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 - BT LE 1 Msps
Add. Information	

Test Parameter	
Technology to test	BT LE 1 Msps
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2402
Frequency mid to test	True Freq [MHz] 2440
Frequency high to test	True Freq [MHz] 2480
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 2402 MHz

RESULT: DTM Connection check

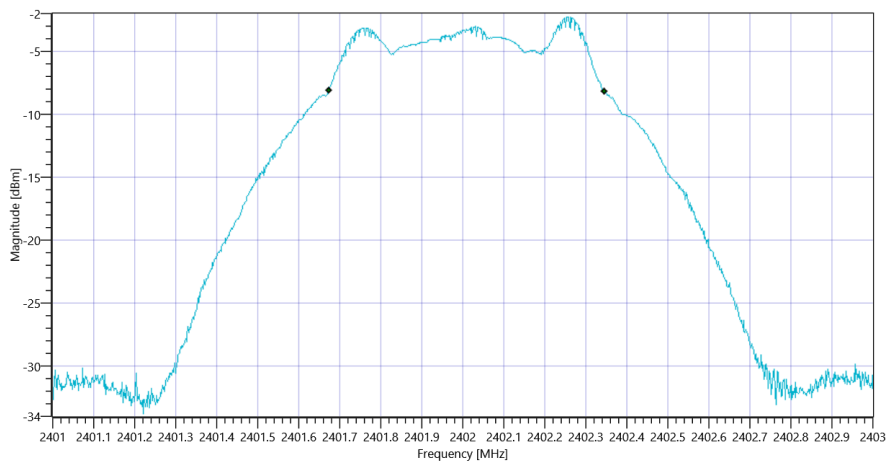
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	--	PASS

READ SA SETTINGS:

Ref. Level [dBm]	2.70
Ref. Lev. offs [dB]	10.59
Input Attenuation [dB]	10
Freq. Start [MHz]	2401.000
Freq. Stop [MHz]	2403.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
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)	0.500	---	0.672	MHz	PASS

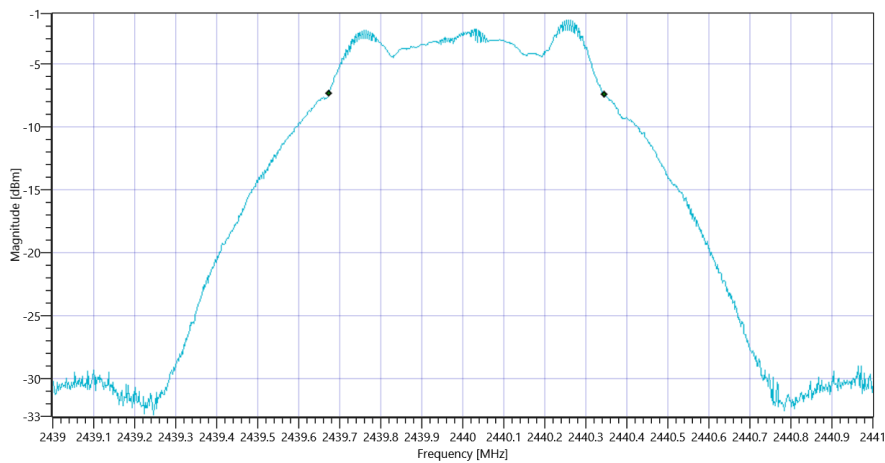


Test at TX 2440 MHz

RESULT: DTM Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	--	PASS

READ SA SETTINGS:	
Ref. Level [dBm]	3.43
Ref. Lev. offs [dB]	10.71
Input Attenuation [dB]	10
Freq. Start [MHz]	2439.000
Freq. Stop [MHz]	2441.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
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)	0.500	---	0.672	MHz	PASS



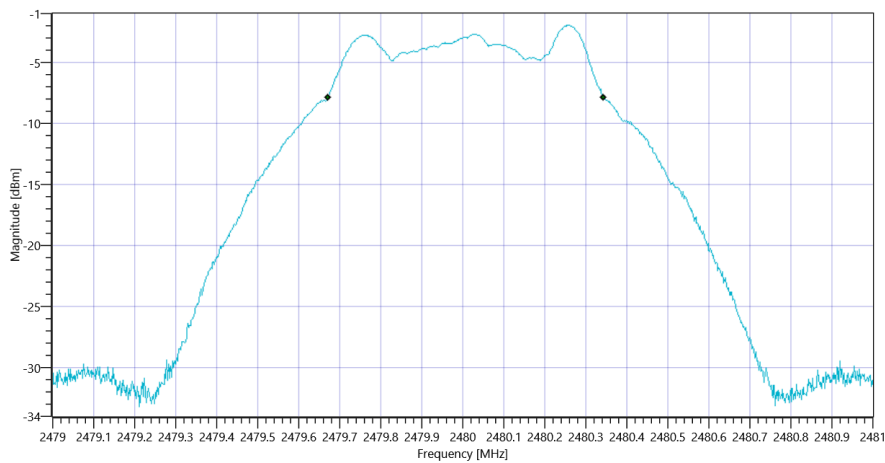
Plot_FCC Part 15.247 Bandwidth 6dB DTS BT LE 1 Msps_16012019_103805.png

Test at TX 2480 MHz

RESULT: DTM Connection check					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	--	PASS

READ SA SETTINGS:	
Ref. Level [dBm]	3.04
Ref. Lev. offs [dB]	10.76
Input Attenuation [dB]	10
Freq. Start [MHz]	2479.000
Freq. Stop [MHz]	2481.000
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
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)	0.500	---	0.672	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 6dB DTS BT LE 1 Msps_16012019_103829.png

TEST FINISHED		
General Verdict	16.01.2019 10:38:30 / RT: 71 s	PASS

3. FCC Part 15.247 Peak Power Spectral Density DTS BT LE 1 Msp

Test References	
TC Start	16.01.2019 10:38:31
System Version	1.0.0.13
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 - BT LE 1 Msp
Add. Information	

Test Parameter	
Technology to test	BT LE 1 Msp
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2402
Frequency mid to test	True Freq [MHz] 2440
Frequency high to test	True Freq [MHz] 2480
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 2402 MHz

RESULT: DTM Connection check

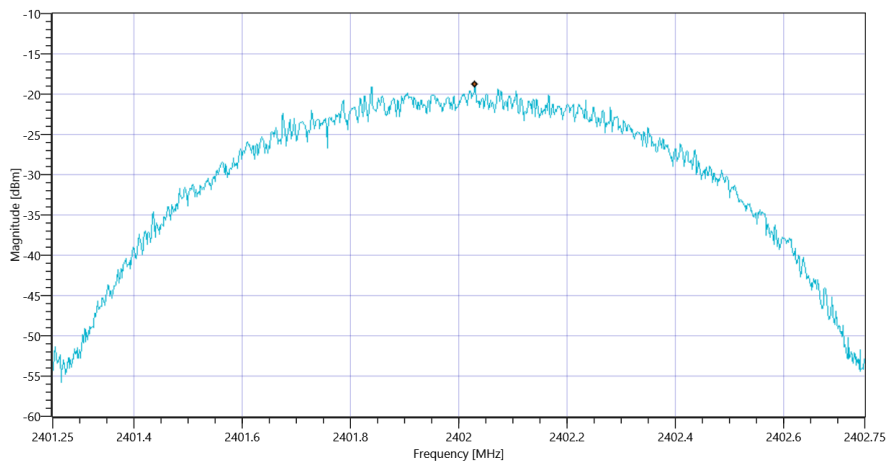
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	--	--	--	--	PASS

READ SA SETTINGS:

Ref. Level [dBm]	2.70
Ref. Lev. offs [dB]	10.59
Input Attenuation [dB]	10
Freq. Start [MHz]	2401.250
Freq. Stop [MHz]	2402.750
Resolution BW. [MHz]	0.003000
Video BW. [MHz]	0.010000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	20
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	-18.76	dBm/3KHz	PASS



Plot_FCC Part 15.247 Peak Power Spectral Density DTS BT LE 1 Msp_16012019_103905.png

Test at TX 2440 MHz

RESULT: DTM Connection check

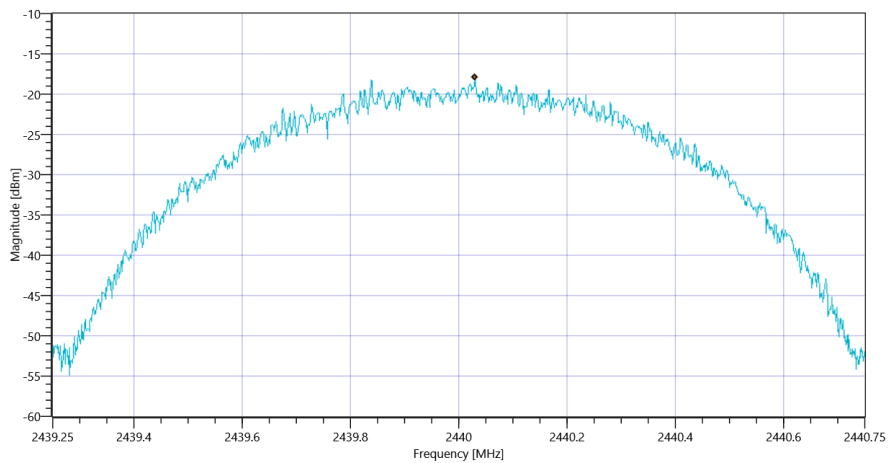
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	--	--	--	--	PASS

READ SA SETTINGS:

Ref. Level [dBm]	3.49
Ref. Lev. offs [dB]	10.71
Input Attenuation [dB]	10
Freq. Start [MHz]	2439.250
Freq. Stop [MHz]	2440.750
Resolution BW. [MHz]	0.003000
Video BW. [MHz]	0.010000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	20
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	-17.99	dBm/3KHz	PASS



Plot_FCC Part 15.247 Peak Power Spectral Density DTS BT LE 1 Msp_16012019_104138.png

Test at TX 2480 MHz

RESULT: DTM Connection check

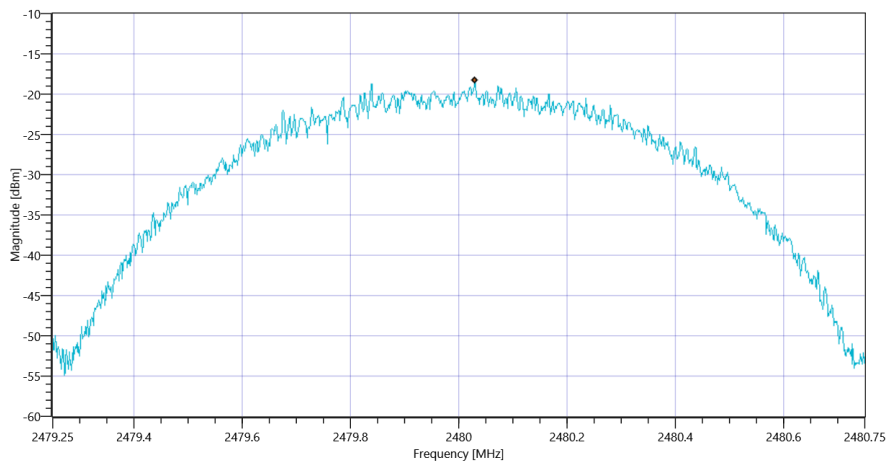
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	--	PASS

READ SA SETTINGS:

Ref. Level [dBm]			3.08		
Ref. Lev. offs [dB]			10.76		
Input Attenuation [dB]			10		
Freq. Start [MHz]			2479.250		
Freq. Stop [MHz]			2480.750		
Resolution BW. [MHz]			0.003000		
Video BW. [MHz]			0.010000		
Detector			POS		
Sweep Time [ms]			1000		
Sweep Points/Section			1001		
Sweep Count			20		
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	-18.33	dBm/3KHz	PASS



Plot_FCC Part 15.247 Peak Power Spectral Density DTS BT LE 1 Msps_16012019_104212.png

TEST FINISHED

General Verdict

16.01.2019 10:42:12 / RT: 221 s

PASS

4. FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msps

Test References	
TC Start	16.01.2019 10:42:14
System Version	1.0.0.13
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 - BT LE 1 Msps
Add. Information	

Test Parameter	
Technology to test	BT LE 1 Msps
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2402
Frequency mid to test	True Freq [MHz] 2440
Frequency high to test	True Freq [MHz] 2480
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 2402 MHz

RESULT: DTM Connection check

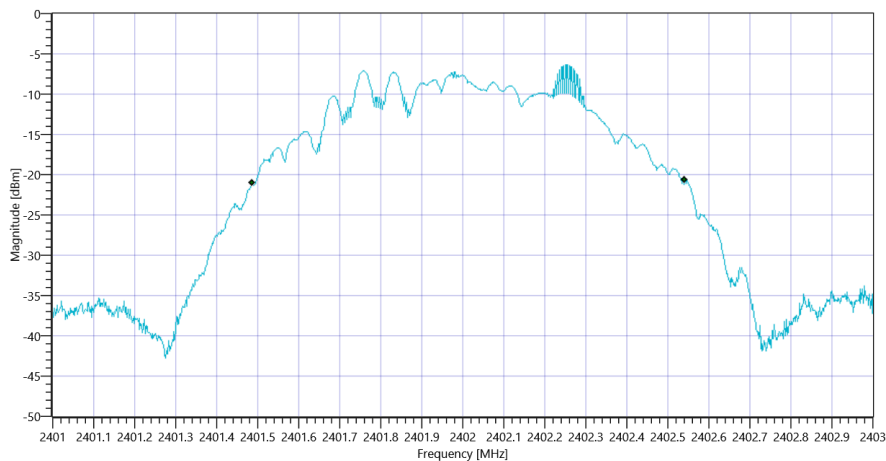
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	--	--	--	--	PASS

READ SA SETTINGS:

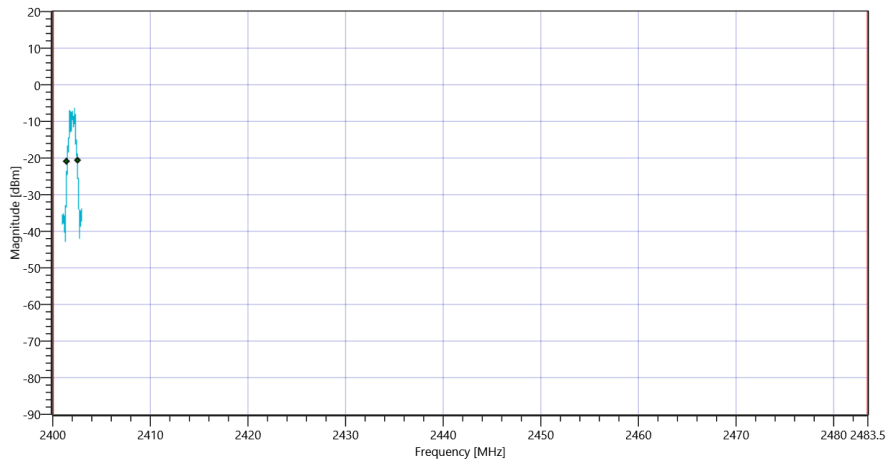
Ref. Level [dBm]	2.72
Ref. Lev. offs [dB]	10.59
Input Attenuation [dB]	10
Freq. Start [MHz]	2401.000
Freq. Stop [MHz]	2403.000
Resolution BW. [MHz]	0.030000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	1.055	MHz	Information
T1	2400.000000	--	2401.4865	MHz	PASS
T2	--	2483.500000	2402.5415	MHz	PASS



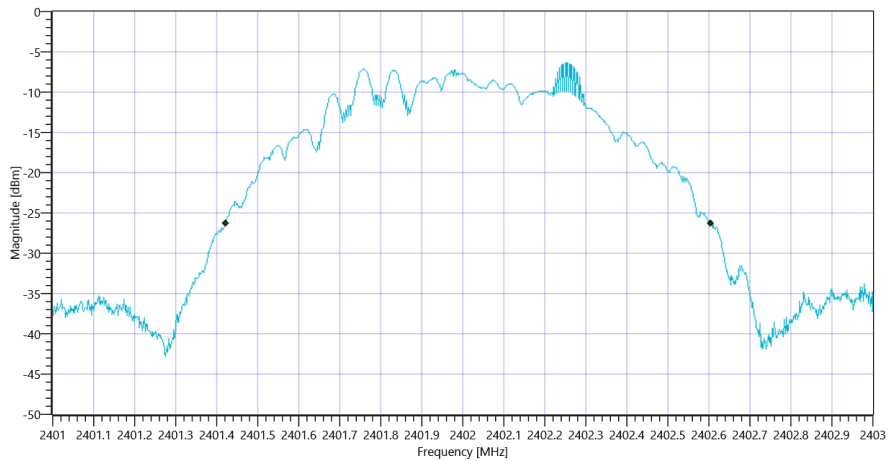
Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msps 99PCT_16012019_104238.png



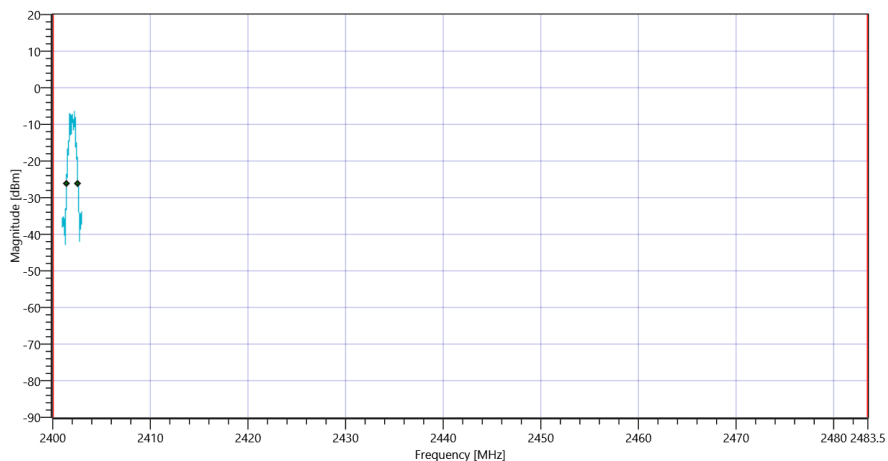
Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msp.16012019_104241.png

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	--	--	1.184	MHz	Information
T1 20dB	2400.000000	--	2401.4220	MHz	PASS
T2 20dB	--	2483.500000	2402.6060	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msp.20dB_16012019_104244.png



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msp.16012019_104247.png

Test at TX 2440 MHz

RESULT: DTM Connection check

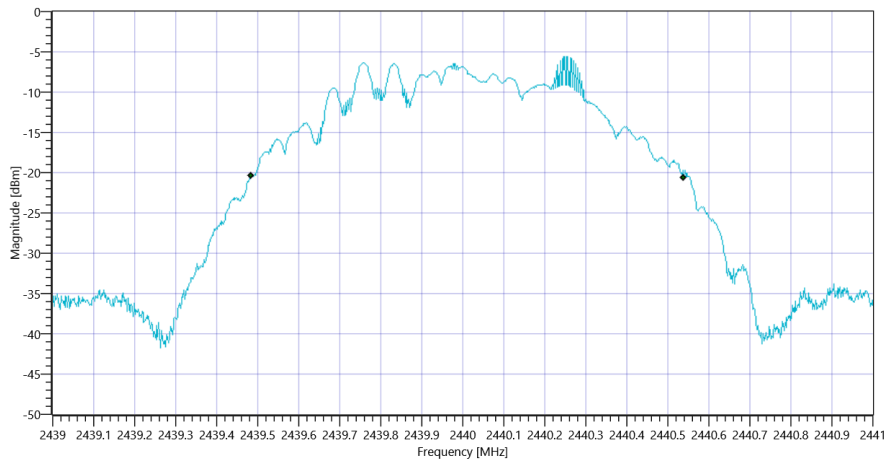
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	--	--	--	--	PASS

READ SA SETTINGS:

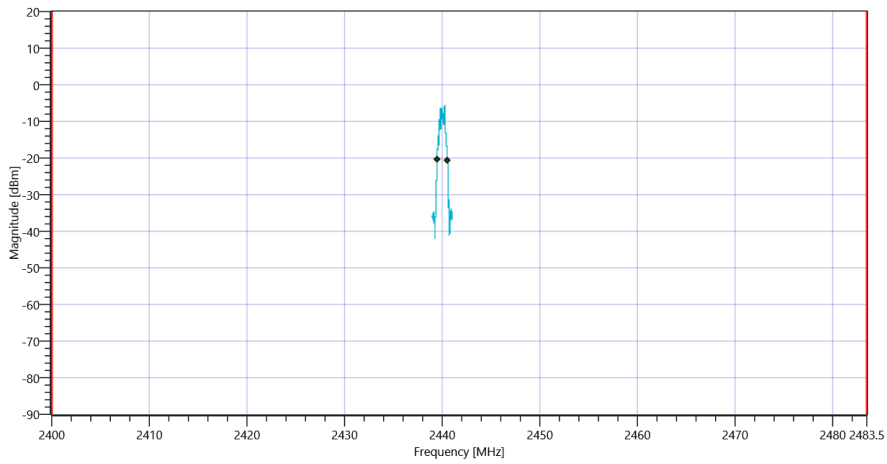
Ref. Level [dBm]	3.52
Ref. Lev. offs [dB]	10.71
Input Attenuation [dB]	10
Freq. Start [MHz]	2439.000
Freq. Stop [MHz]	2441.000
Resolution BW. [MHz]	0.030000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	1.055	MHz	Information
T1	2400.000000	--	2439.4845	MHz	PASS
T2	--	2483.500000	2440.5395	MHz	PASS



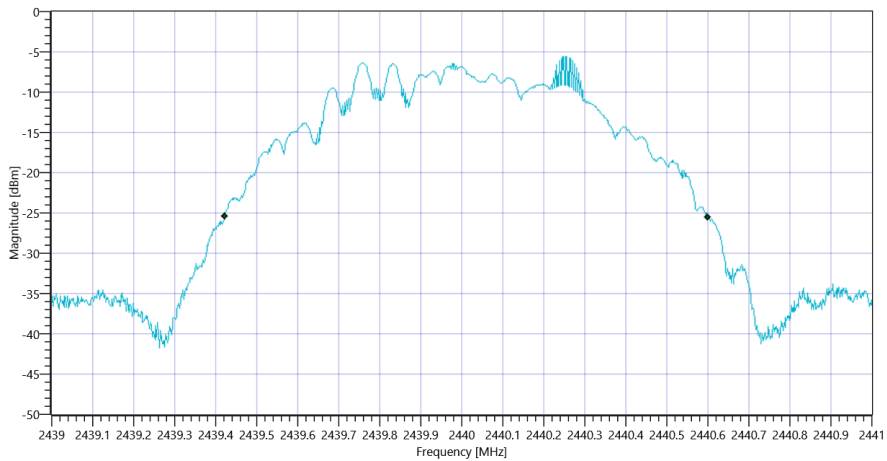
Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msps 99PCT_16012019_104311.png



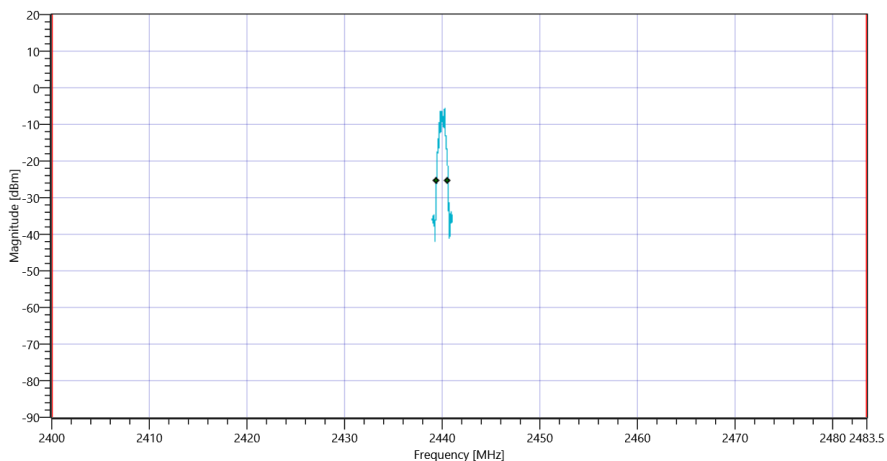
Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msps_16012019_104314.png

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	--	--	1.178	MHz	Information
T1 20dB	2400.000000	--	2439.4220	MHz	PASS
T2 20dB	--	2483.500000	2440.6000	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msps 20dB_16012019_104318.png



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msps_16012019_104321.png

Test at TX 2480 MHz

RESULT: DTM Connection check

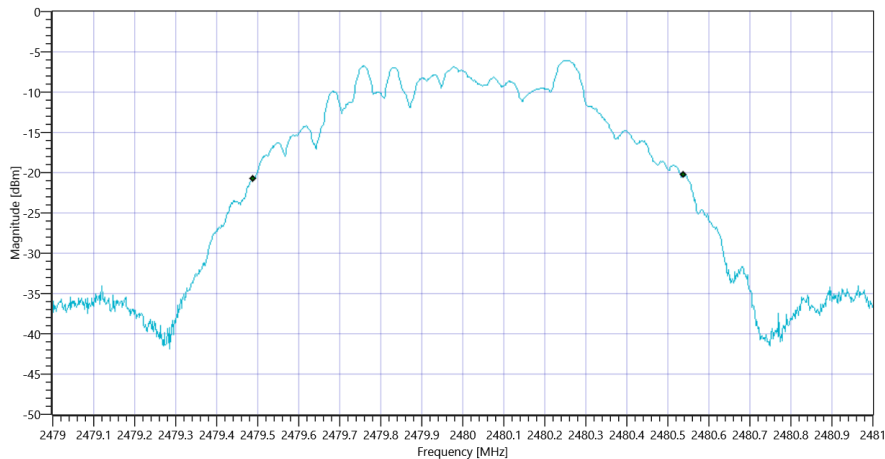
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	--	--	--	--	PASS

READ SA SETTINGS:

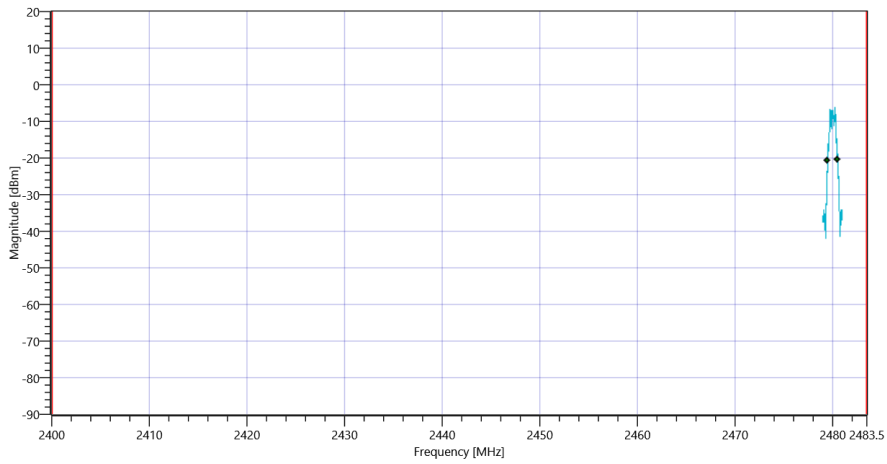
Ref. Level [dBm]	3.10
Ref. Lev. offs [dB]	10.76
Input Attenuation [dB]	10
Freq. Start [MHz]	2479.000
Freq. Stop [MHz]	2481.000
Resolution BW. [MHz]	0.030000
Video BW. [MHz]	0.100000
Detector	POS
Sweep Time [ms]	1000
Sweep Points/Section	1001
Sweep Count	10
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	--	--	1.049	MHz	Information
T1	2400.000000	--	2479.4885	MHz	PASS
T2	--	2483.500000	2480.5375	MHz	PASS



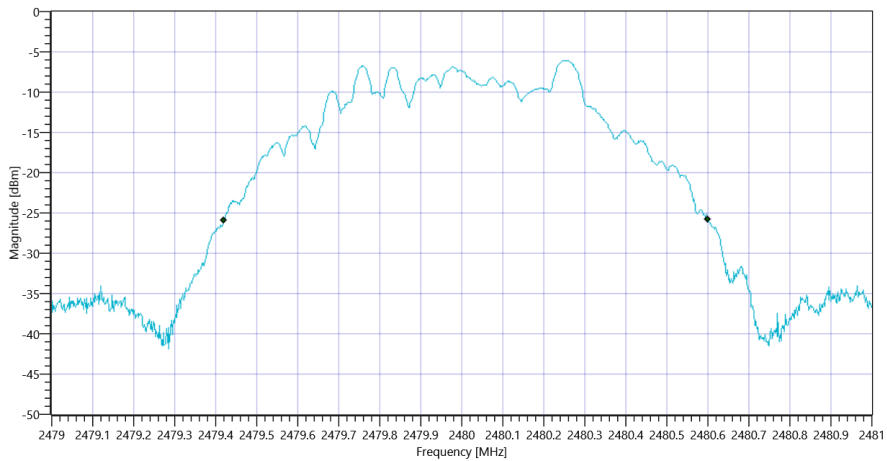
Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msps 99PCT_16012019_104345.png



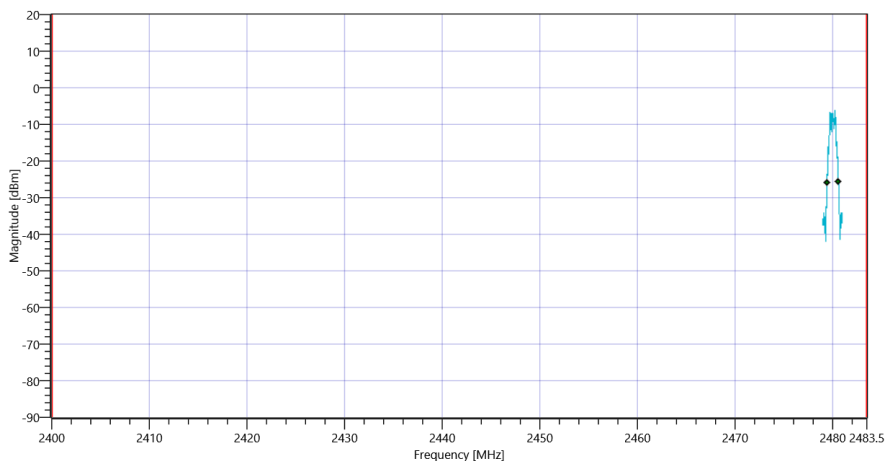
Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msp.16012019_104348.png

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 20dB	--	--	1.18	MHz	Information
T1 20dB	2400.000000	--	2479.4200	MHz	PASS
T2 20dB	--	2483.500000	2480.6000	MHz	PASS



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msp.20dB_16012019_104352.png



Plot_FCC Part 15.247 Bandwidth 99PCT - 20dB BT LE 1 Msp.16012019_104355.png

TEST FINISHED

General Verdict

16.01.2019 10:43:55 / RT: 101 s

PASS

5. FCC Part 15.247 TX Spurious Conducted BT LE 1 MspS

Test References	
TC Start	16.01.2019 10:43:57
System Version	1.0.0.13
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 - BT LE 1 MspS
Add. Information	

Test Parameter	
Technology to test	BT LE 1 MspS
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True Freq [MHz] 2402
Frequency mid to test	True Freq [MHz] 2440
Frequency high to test	True Freq [MHz] 2480
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 2402 MHz

RESULT: DTM Connection check

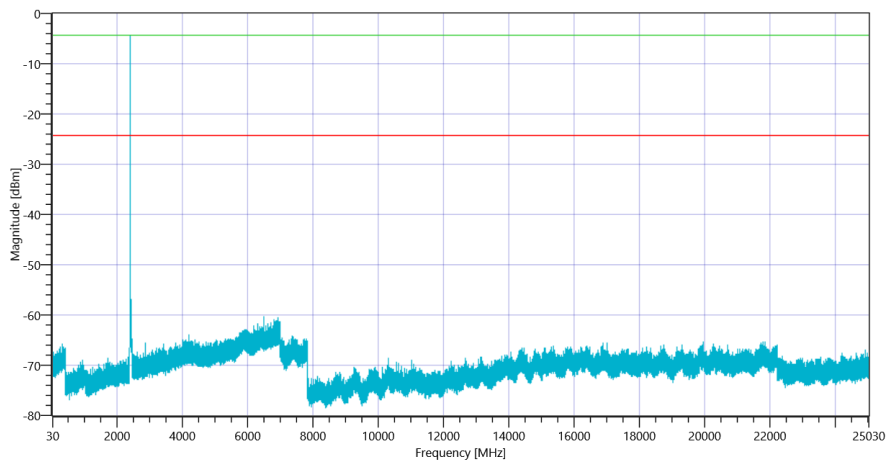
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	--	--	--	--	PASS

READ SA SETTINGS:

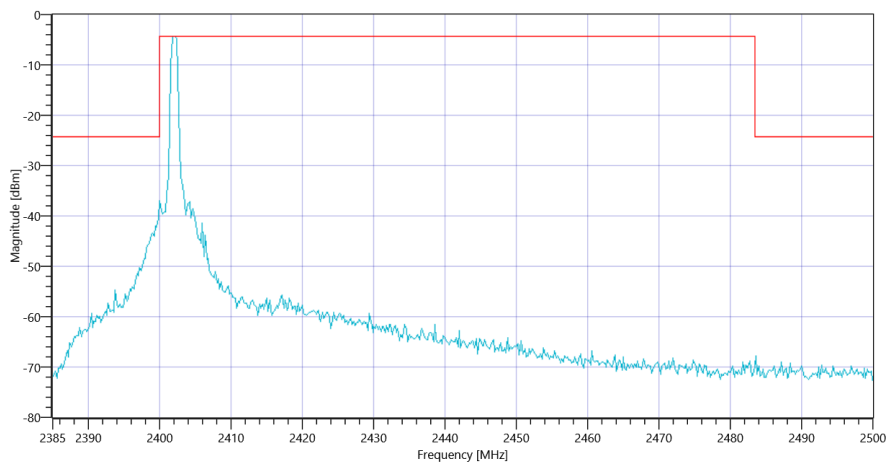
Ref. Level [dBm]	2.79
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	500
Sweep Points/Section	1001
Sweep Count	3
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_TX_Emissions_Conducted_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2402.00 MHz	--	--	-4.33	dBm	Information
No peaks detected	--	--			PASS



Plot_FCC Part 15.247 TX Spurious Conducted BT LE 1 Msps 2402_16012019_104934.png



Plot_FCC Part 15.247 TX Spurious Conducted BT LE 1 Msps 2402_16012019_104936.png

Test at TX 2440 MHz

RESULT: DTM Connection check

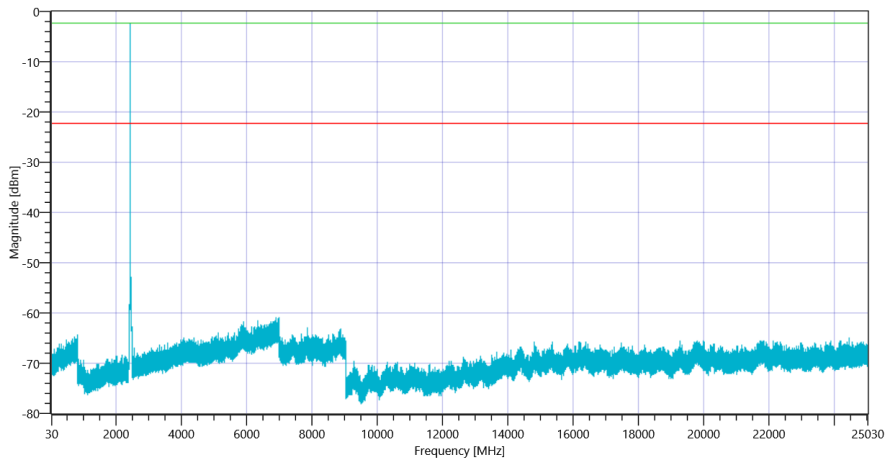
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	--	PASS

READ SA SETTINGS:

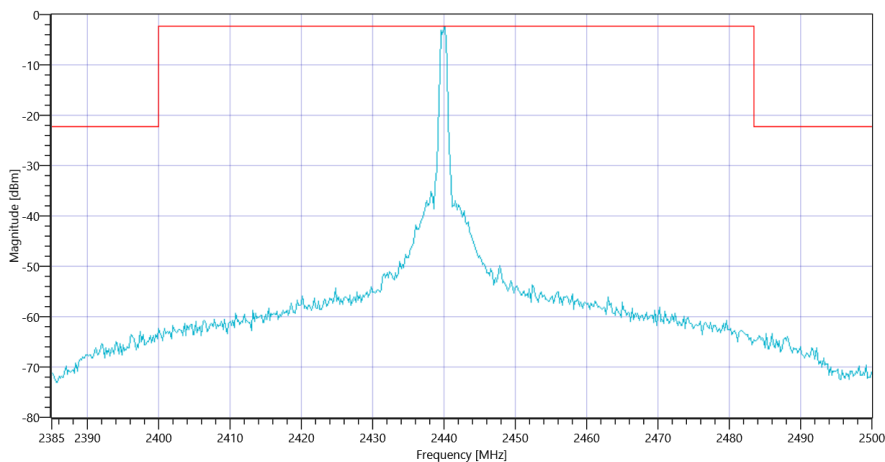
Ref. Level [dBm]	3.55
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	500
Sweep Points/Section	1001
Sweep Count	3
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_TX_Emissions_Conducted_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2440.20 MHz	---	---	-2.31	dBm	Information
No peaks detected	---	---			PASS



Plot_FCC Part 15.247 TX Spurious Conducted BT LE 1 Msps 2440_16012019_105513.png



Plot_FCC Part 15.247 TX Spurious Conducted BT LE 1 Msps 2440_16012019_105516.png

Test at TX 2480 MHz

RESULT: DTM Connection check

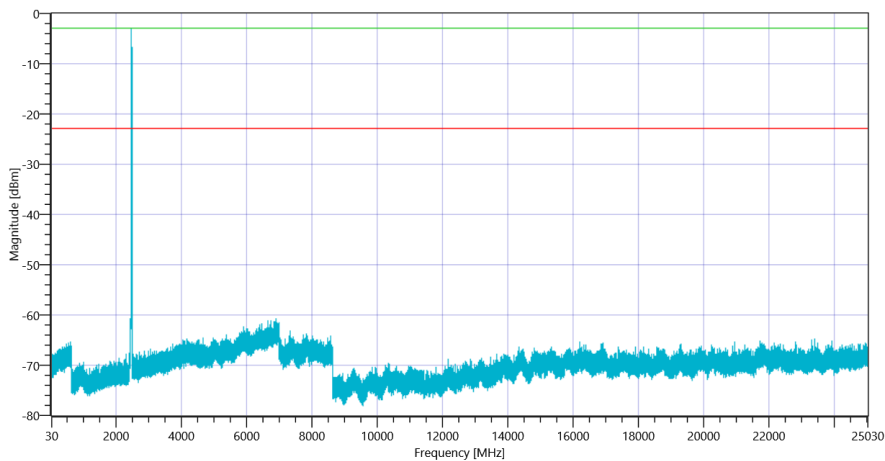
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Connection result	---	---	---	--	PASS

READ SA SETTINGS:

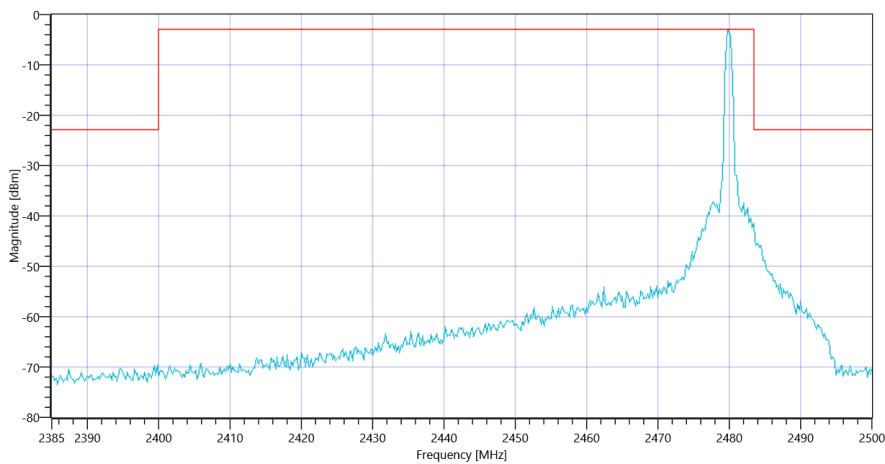
Ref. Level [dBm]	3.18
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	500
Sweep Points/Section	1001
Sweep Count	3
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_TX_Emissions_Conducted_V01

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Reference @ 2479.80 MHz	---	---	-2.88	dBm	Information
No peaks detected	---	---			PASS



Plot_FCC Part 15.247 TX Spurious Conducted BT LE 1 Msps 2480_16012019_110053.png



Plot_FCC Part 15.247 TX Spurious Conducted BT LE 1 Msps 2480_16012019_110056.png

TEST FINISHED

General Verdict

16.01.2019 11:00:57 / RT: 1019 s

PASS

- END OF DOCUMENT -
