

## **Measurement Results**

1-8058/19-01-06\_log1\_conducted

**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.

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## **IUT Summary**

IUT DEFINITION	
Manufacturer	Bosch Connected Devices and Solutions GmbH
Туре	SCD110
Serial No.	#12
Setup No.	NI
SW Version	NI
HW Version	NI
Comment 1	NI
Comment 2	NI

IUT Common Settings	
Tlow [°C]	15
Tmid [°C]	20
Thigh [°C]	85
Vlow [V]	3
Vmid [V]	3
Vhigh [V]	3
Imax [A]	1
Auto Control enabled Power Supply   Climatic Box	No   No
Antenna Gain [dBi]	0
Additional Path Loss [dB]	0.3

IUT Common Settings BT Low Energy	
Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	-3   -3
Power Class	2
1 Mbps supported	True   TXpayload 255   RXpayload 255
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   12   B115K   None   S1   None   On
Signaling RF Settings	RF1com   0   0   0 n
User Interaction	No
Switch Matrix & Pathcompensation enabled	Yes



# 1. FCC Part 15.247 Maximum Peak Conducted Output Power DTS $\sim$ BT LE 1 Msps

Test References	
TC Start	08.04.2019 15:41:29
System Version	1.0.0.14
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	

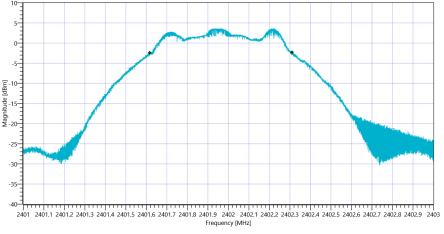
Test Parameter	
Technology to test	BT LE 1 Msps
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2440
Frequency high to test	True   Freq [MHz] 2480
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.70   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40



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

READ SA SETTINGS:		
Ref. Level [dBm]	8.58	
Ref. Lev. offs [dB]	10.09	
Input Attenuation [dB]	15	
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]	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)			695	kHz	Information

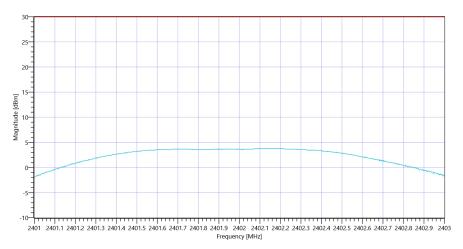


Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 1 Msps DTS BW \_08042019\_154154.png

READ SA SETTINGS:	
Ref. Level [dBm]	13.58
Ref. Lev. offs [dB]	10.09
Input Attenuation [dB]	20
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]	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	3.75	dBm	PASS	
Peak Power		1000	2.371374	mW	PASS	
Frequency at Peak			2402.164	MHz	Information	



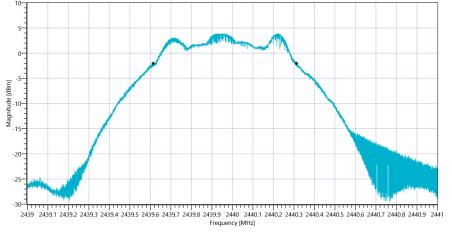
 $Plot\_FCC\ Part\ 15.247\ Maximum\ Peak\ Conducted\ Output\ Power\ DTS \sim BT\ LE\ 1\ Msps\_08042019\_154209.png$ 



RESULT: DTM Connection check						
Test Descrip	tion Lower Limit	Upper Limit	Measured	Unit	Verdict	
Connection	esult			-	PASS	

READ SA SETTINGS:	
Ref. Level [dBm]	8.91
Ref. Lev. offs [dB]	10.21
Input Attenuation [dB]	15
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]	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)			699	kHz	Information	

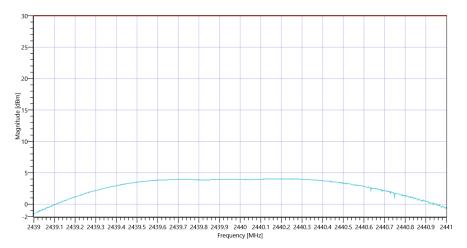


Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 1 Msps DTS BW \_08042019\_154233.png

READ SA SETTINGS:		
Ref. Level [dBm]	13.91	
Ref. Lev. offs [dB]	10.21	
Input Attenuation [dB]	20	
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]	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	4.04	dBm	PASS	
Peak Power		1000	2.535129	mW	PASS	
Frequency at Peak			2440.222	MHz	Information	



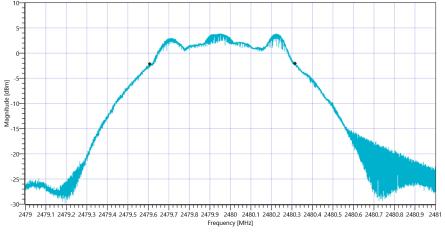
 $Plot\_FCC\ Part\ 15.247\ Maximum\ Peak\ Conducted\ Output\ Power\ DTS \sim BT\ LE\ 1\ Msps\_08042019\_154248.png$ 



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

READ SA SETTINGS:	
Ref. Level [dBm]	8.76
Ref. Lev. offs [dB]	10.26
Input Attenuation [dB]	15
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]	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)			710	kHz	Information	

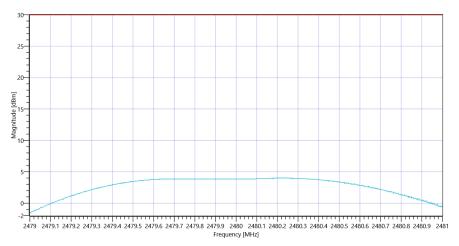


Plot\_FCC Part 15.247 Maximum Peak Conducted Output Power DTS ~ BT LE 1 Msps DTS BW \_08042019\_154312.png

READ SA SETTINGS:		
Ref. Level [dBm]	13.76	
Ref. Lev. offs [dB]	10.26	
Input Attenuation [dB]	20	
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]	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	4	dBm	PASS	
Peak Power		1000	2.511886	mW	PASS	
Frequency at Peak			2480.232	MHz	Information	



 $Plot\_FCC\ Part\ 15.247\ Maximum\ Peak\ Conducted\ Output\ Power\ DTS \sim BT\ LE\ 1\ Msps\_08042019\_154327.png$ 

TEST FINISHED		
General Verdict	08.04.2019 15:43:27 / RT: 118 s	PASS



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

Test References	
TC Start	08.04.2019 15:43:31
System Version	1.0.0.14
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	

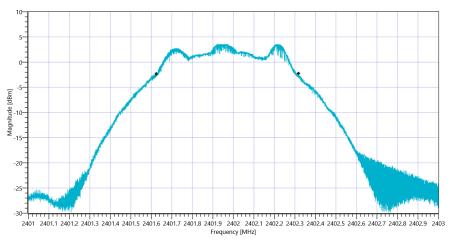
Test Parameter	
Technology to test	BT LE 1 Msps
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2440
Frequency high to test	True   Freq [MHz] 2480
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.70   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40



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

READ SA SETTINGS:	
Ref. Level [dBm]	8.60
Ref. Lev. offs [dB]	10.09
Input Attenuation [dB]	15
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]	50
Sweep Points/Section	10001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247	ESULT: TC_VM_FCC15247_Bandwidth_6dB_DTS_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500		694	kHz	PASS



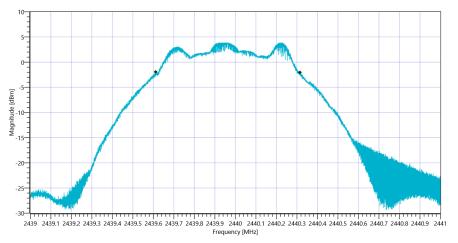
Plot\_FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 1 Msps\_08042019\_154356.png



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

READ SA SETTINGS:		
Ref. Level [dBm]	8.87	
Ref. Lev. offs [dB]	10.21	
Input Attenuation [dB]	15	
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]	50	
Sweep Points/Section	10001	
Sweep Count	200	
Sweep Mode	MAXH	
Used Sweep Type	SWE	

RESULT: TC_VM_FCC15247	RESULT: TC_VM_FCC15247_Bandwidth_6dB_DTS_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500		704	kHz	PASS



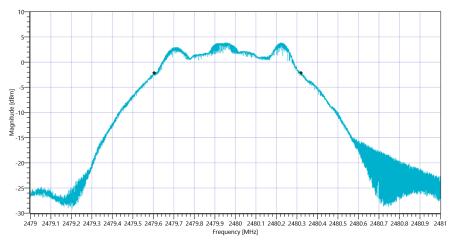
Plot\_FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 1 Msps\_08042019\_154420.png



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

READ SA SETTINGS:		
Ref. Level [dBm]	8.76	
Ref. Lev. offs [dB]	10.26	
Input Attenuation [dB]	15	
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]	50	
Sweep Points/Section	10001	
Sweep Count	200	
Sweep Mode	MAXH	
Used Sweep Type	SWE	

RESULT: TC_VM_FCC15247	RESULT: TC_VM_FCC15247_Bandwidth_6dB_DTS_V01				
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
DTS Bandwidth (6dB)	500		717	kHz	PASS



Plot\_FCC Part 15.247 Bandwidth 6dB DTS ~ BT LE 1 Msps\_08042019\_154444.png

TEST FINISHED		
General Verdict	08.04.2019 15:44:44 / RT: 73 s	PASS



## 3. FCC Part 15.247 Peak Power Spectral Density DTS ~ BT LE 1 Msps

Test References	
TC Start	08.04.2019 15:44:48
System Version	1.0.0.14
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 Msps
Add Information	

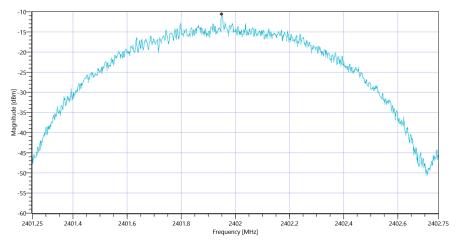
Test Parameter	
Technology to test	BT LE 1 Msps
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2440
Frequency high to test	True   Freq [MHz] 2480
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.70   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40



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

READ SA SETTINGS:	
Ref. Level [dBm]	8.63
Ref. Lev. offs [dB]	10.09
Input Attenuation [dB]	15
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	-10.67	dBm/3KHz	PASS



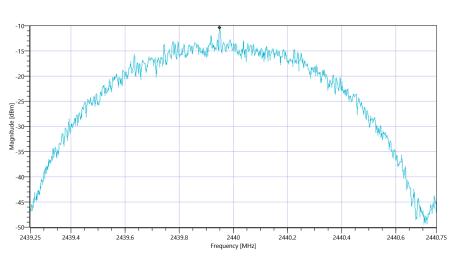
Plot\_FCC Part 15.247 Peak Power Spectral Density DTS  $\sim$  BT LE 1 Msps\_08042019\_154522.png



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

READ SA SETTINGS:		
Ref. Level [dBm]	8.91	
Ref. Lev. offs [dB]	10.21	
Input Attenuation [dB]	15	
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	-10.3	dBm/3KHz	PASS



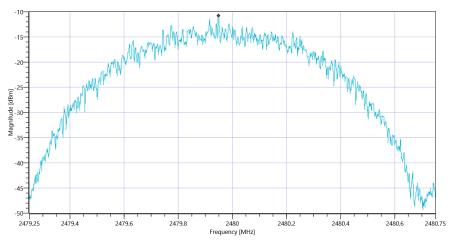
 $Plot\_FCC\ Part\ 15.247\ Peak\ Power\ Spectral\ Density\ DTS \sim BT\ LE\ 1\ Msps\_08042019\_154556.png$ 



RESULT: D	RESULT: DTM Connection check					
Test Descrip	tion Lower Limit	Upper Limit	Measured	Unit	Verdict	
Connection	esult			-	PASS	

READ SA SETTINGS:		
Ref. Level [dBm]	8.79	
Ref. Lev. offs [dB]	10.26	
Input Attenuation [dB]	15	
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	-10.79	dBm/3KHz	PASS



 $Plot\_FCC\ Part\ 15.247\ Peak\ Power\ Spectral\ Density\ DTS \sim BT\ LE\ 1\ Msps\_08042019\_154629.png$ 

TEST FINISHED		
General Verdict	08.04.2019 15:46:30 / RT: 101 s	PASS



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

Test References	
TC Start	08.04.2019 15:46:33
System Version	1.0.0.14
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	

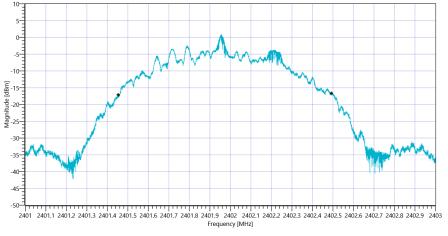
Test Parameter	
Technology to test	BT LE 1 Msps
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2440
Frequency high to test	True   Freq [MHz] 2480
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.70   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40



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

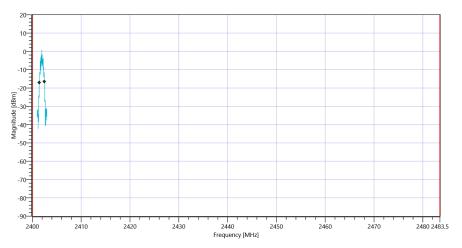
READ SA SETTINGS:	
Ref. Level [dBm]	8.60
Ref. Lev. offs [dB]	10.09
Input Attenuation [dB]	15
Freq. Start [MHz]	2401.000
Freq. Stop [MHz]	2403.000
Resolution BW. [MHz]	0.020000
Video BW. [MHz]	0.050000
Detector	POS
Sweep Time [ms]	50
Sweep Points/Section	10001
Sweep Count	200
Sweep Mode	MAXH
Used Sweep Type	SWE

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Bandwidth 99%			1040	kHz	Information	
T1 99%	2400.000000		2401.4543	MHz	PASS	
T2 99%		2483.500000	2402.4942	MHz	PASS	



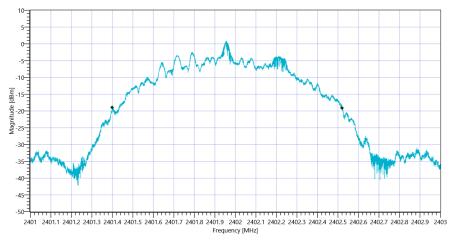
Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB  $\sim$  BT LE 1 Msps 99PCT\_08042019\_154658.png



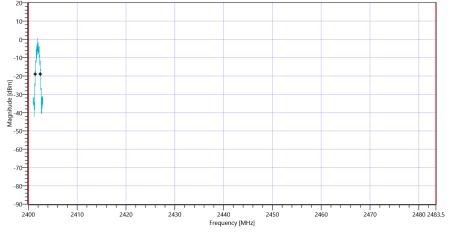


 $Plot\_FCC\ Part\ 15.247\ Bandwidth\ 99PCT-20dB \sim BT\ LE\ 1\ Msps\_08042019\_154701.png$ 

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Bandwidth 20dB			1121	kHz	Information	
T1 20dB	2400.000000		2401.4004	MHz	PASS	
T2 20dB		2483.500000	2402.5210	MHz	PASS	



 $Plot\_FCC~Part~15.247~Bandwidth~99PCT-20dB \sim BT~LE~1~Msps~20dB\_08042019\_154705.png$ 



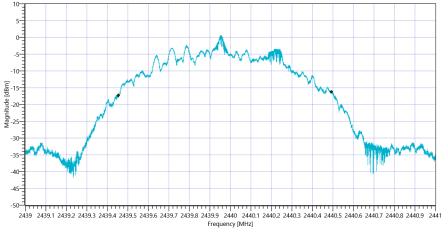
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RESULT: DTM Connection check							
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict		
Connection result					PASS		

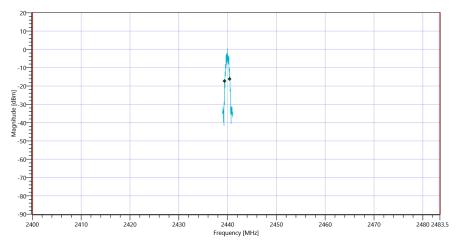
READ SA SETTINGS:		
Ref. Level [dBm]	8.92	
Ref. Lev. offs [dB]	10.21	
Input Attenuation [dB]	15	
Freq. Start [MHz]	2439.000	
Freq. Stop [MHz]	2441.000	
Resolution BW. [MHz]	0.020000	
Video BW. [MHz]	0.050000	
Detector	POS	
Sweep Time [ms]	50	
Sweep Points/Section	10001	
Sweep Count	200	
Sweep Mode	MAXH	
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%			1040	kHz	Information	
T1 99%	2400.000000		2439.4543	MHz	PASS	
T2 99%		2483.500000	2440.4942	MHz	PASS	



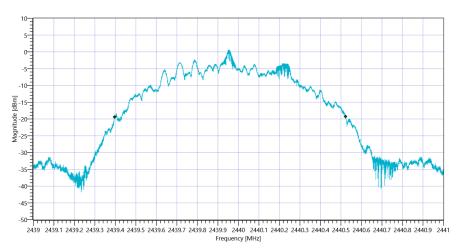
 $Plot\_FCC~Part~15.247~Bandwidth~99PCT-20dB \sim BT~LE~1~Msps~99PCT\_08042019\_154732.png$ 



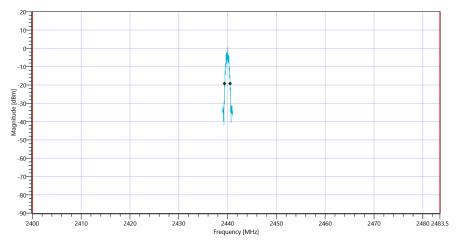


Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 Msps\_08042019\_154735.png

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Bandwidth 20dB			1125	kHz	Information	
T1 20dB	2400.000000		2439.3980	MHz	PASS	
T2 20dB		2483.500000	2440.5226	MHz	PASS	



 $Plot\_FCC~Part~15.247~Bandwidth~99PCT-20dB \sim BT~LE~1~Msps~20dB\_08042019\_154739.png$ 



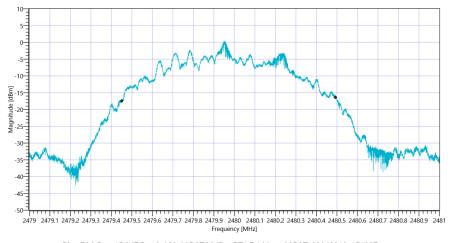
 $Plot\_FCC\ Part\ 15.247\ Bandwidth\ 99PCT-20dB \sim BT\ LE\ 1\ Msps\_08042019\_154742.png$ 



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

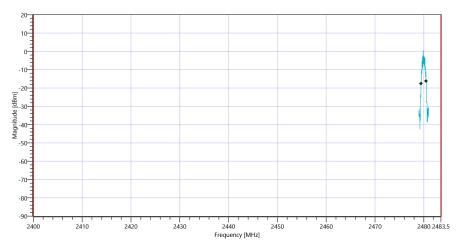
READ SA SETTINGS:		
Ref. Level [dBm]	8.78	
Ref. Lev. offs [dB]	10.26	
Input Attenuation [dB]	15	
Freq. Start [MHz]	2479.000	
Freq. Stop [MHz]	2481.000	
Resolution BW. [MHz]	0.020000	
Video BW. [MHz]	0.050000	
Detector	POS	
Sweep Time [ms]	50	
Sweep Points/Section	10001	
Sweep Count	200	
Sweep Mode	MAXH	
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%			1043	kHz	Information	
T1 99%	2400.000000		2479.4509	MHz	PASS	
T2 99%		2483.500000	2480.4942	MHz	PASS	



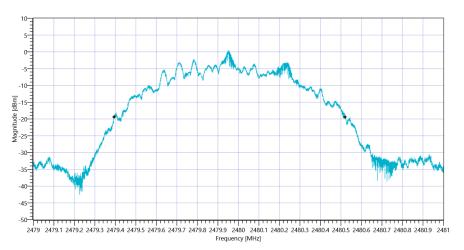
Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB  $\sim$  BT LE 1 Msps 99PCT\_08042019\_154807.png



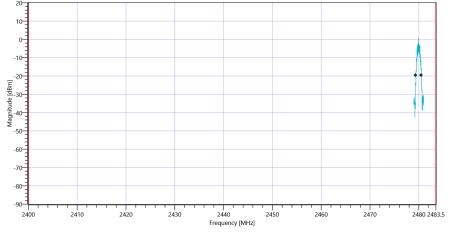


Plot\_FCC Part 15.247 Bandwidth 99PCT-20dB ~ BT LE 1 Msps\_08042019\_154810.png

RESULT: TC_VM_FCC15247_Bandwidth_99PCT_20dB_DTS_FHSS_V01							
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict		
Bandwidth 20dB		***	1127	kHz	Information		
T1 20dB	2400.000000		2479.3944	MHz	PASS		
T2 20dB		2483.500000	2480.5214	MHz	PASS		



 $Plot\_FCC~Part~15.247~Bandwidth~99PCT-20dB \sim BT~LE~1~Msps~20dB\_08042019\_154814.png$ 



 $Plot\_FCC\ Part\ 15.247\ Bandwidth\ 99PCT-20dB \sim BT\ LE\ 1\ Msps\_08042019\_154817.png$ 



 TEST FINISHED

 General Verdict
 08.04.2019 15:48:17 / RT: 103 s
 PASS



# 5. FCC Part 15.247 TX Spurious Conduced ~ BT LE 1 Msps

Test References	
TC Start	08.04.2019 15:48:21
System Version	1.0.0.14
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	

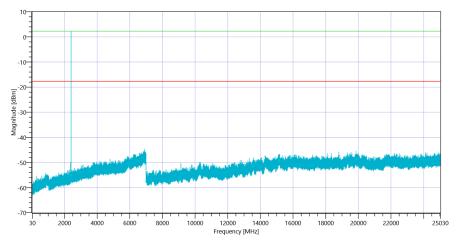
Test Parameter	
Technology to test	BT LE 1 Msps
Antenna Port used	1
Temperature	mid
Voltage	mid
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2440
Frequency high to test	True   Freq [MHz] 2480
Pattern	PRBS9
Switched Path	IUT - SignalingUnit - SpectrumAnalyzer
Devices in use	SigBT: Rohde&Schwarz,CMW,1201.0002k75/100683,3.7.70   SA: Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.40



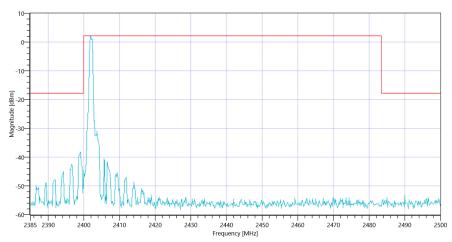
RESULT: DTM Connection check						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Connection result				-	PASS	

READ SA SETTINGS:	
Ref. Level [dBm]	9.02
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	500
Sweep Points/Section	3001
Sweep Count	8
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			2.21	dBm	Information
No peaks detected					PASS



Plot\_FCC Part 15.247 TX Spurious Conduced ~ BT LE 1 Msps 2402\_08042019\_155302.png



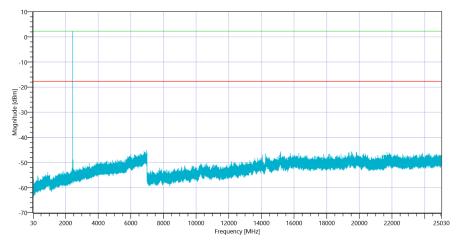
Plot\_FCC Part 15.247 TX Spurious Conduced ~ BT LE 1 Msps 2402\_08042019\_155305.png



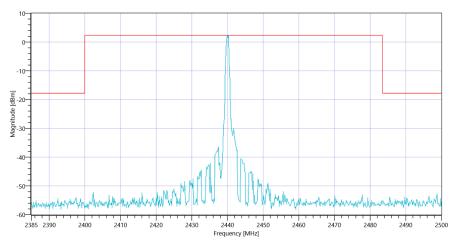
RESULT: DTM Connection check						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Connection result					PASS	

READ SA SETTINGS:	
Ref. Level [dBm]	9.36
Resolution BW. [MHz]	0.100000
Video BW. [MHz]	0.300000
Detector	POS
Sweep Time [ms]	500
Sweep Points/Section	3001
Sweep Count	8
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 @ 2439.83 MHz			2.31	dBm	Information
No peaks detected	***				PASS



Plot\_FCC Part 15.247 TX Spurious Conduced ~ BT LE 1 Msps 2440\_08042019\_155746.png



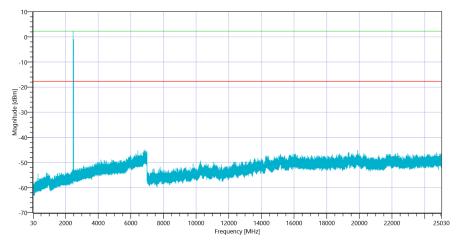
Plot\_FCC Part 15.247 TX Spurious Conduced ~ BT LE 1 Msps 2440\_08042019\_155749.png



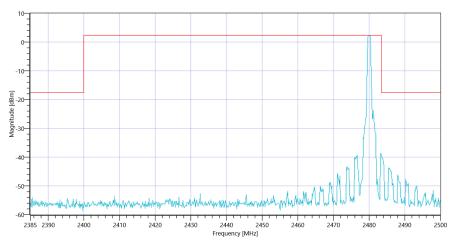
RESULT: DTM Connection check						
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict	
Connection result				-	PASS	

READ SA SETTINGS:		
Ref. Level [dBm]	9.19	
Resolution BW. [MHz]	0.100000	
Video BW. [MHz]	0.300000	
Detector	POS	
Sweep Time [ms]	500	
Sweep Points/Section	3001	
Sweep Count	8	
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 @ 2480.17 MHz			2.34	dBm	Information
No neaks detected					PASS



Plot\_FCC Part 15.247 TX Spurious Conduced ~ BT LE 1 Msps 2480\_08042019\_160231.png



Plot\_FCC Part 15.247 TX Spurious Conduced ~ BT LE 1 Msps 2480\_08042019\_160233.png



General Verdict 08.04.2019 16:02:34 / RT: 852 s PASS

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