

# Conducted test results

No.1-6579/23-01-44\_TR1-A201-R01

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October 30, 2023

Test Standard(s)                      FCC 15.247 - NI  
  FCC 15.247, ISED RSS247 - NI

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Testing Manager  
Radio Labs

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FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic EDR 8DPSK	127

# FCC 15.247 # Carrier frequency separation FHSS ~ BT Classic Basic rate

## References

TC start	10.08.2023 16:20:10
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	
Description	FCC 15.247 Carrier Frequency Separation FHSS - BT Classic Basic Rate
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic Basic rate
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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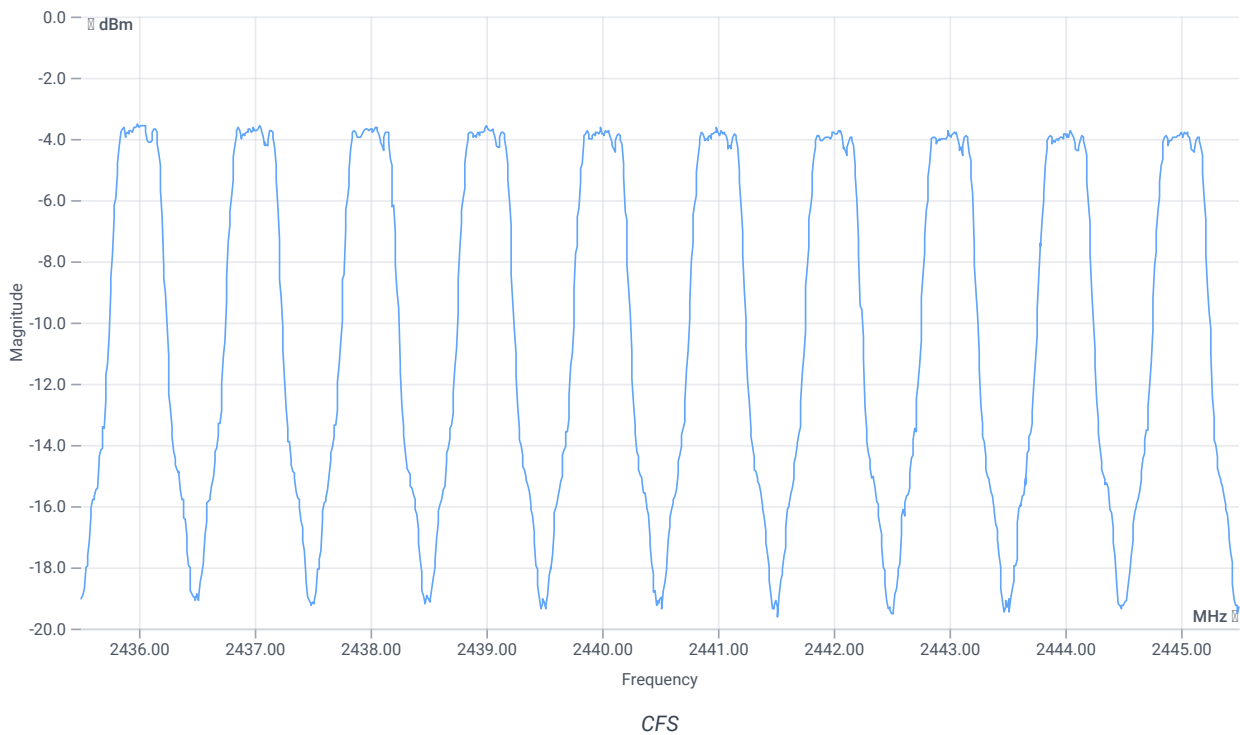
## Test at TX hopping MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.00	dBm	INFO
Ref. Frequency	--	--	2445.090	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	2.00   11.86   10
Start [MHz]   Stop [MHz]	2435.500   2445.500
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   20000   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
1 CFS n to n+1 (rnd)	0.025	--	1	MHz	PASS
1 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	--	1	MHz	PASS
2 CFS n to n+1 (rnd)	0.025	--	1	MHz	PASS
2 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	--	1	MHz	PASS
3 CFS n to n+1 (rnd)	0.025	--	1	MHz	PASS

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
3 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	--	1	MHz	PASS
4 CFS n to n+1 (rnd)	0.025	--	1	MHz	PASS
4 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	--	1	MHz	PASS
5 CFS n to n+1 (rnd)	0.025	--	1	MHz	PASS
5 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	--	1	MHz	PASS
6 CFS n to n+1 (rnd)	0.025	--	1	MHz	PASS
6 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	--	1	MHz	PASS
7 CFS n to n+1 (rnd)	0.025	--	1	MHz	PASS
7 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	--	1	MHz	PASS
8 CFS n to n+1 (rnd)	0.025	--	1	MHz	PASS
8 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	--	1	MHz	PASS
9 CFS n to n+1 (rnd)	0.025	--	1	MHz	PASS
9 CFS n to n+1 (rnd)	0.667 (2/3 Nom.BW)	--	1	MHz	PASS
Carrier Freq. (rnd)	--	--	2436	MHz	INFO
Carrier Freq. (rnd)	--	--	2437	MHz	INFO
Carrier Freq. (rnd)	--	--	2438	MHz	INFO
Carrier Freq. (rnd)	--	--	2439	MHz	INFO
Carrier Freq. (rnd)	--	--	2440	MHz	INFO
Carrier Freq. (rnd)	--	--	2441	MHz	INFO
Carrier Freq. (rnd)	--	--	2442	MHz	INFO
Carrier Freq. (rnd)	--	--	2443	MHz	INFO
Carrier Freq. (rnd)	--	--	2444	MHz	INFO
Carrier Freq. (rnd)	--	--	2445	MHz	INFO

Verdict

PASS

## FCC 15.247 # Number of hopping channels FHSS ~ BT Classic Basic rate

### References

TC start	10.08.2023 13:10:12
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	
Description	FCC 15.247 Number Of Hopping Channels FHSS - BT Classic Basic Rate
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic Basic rate
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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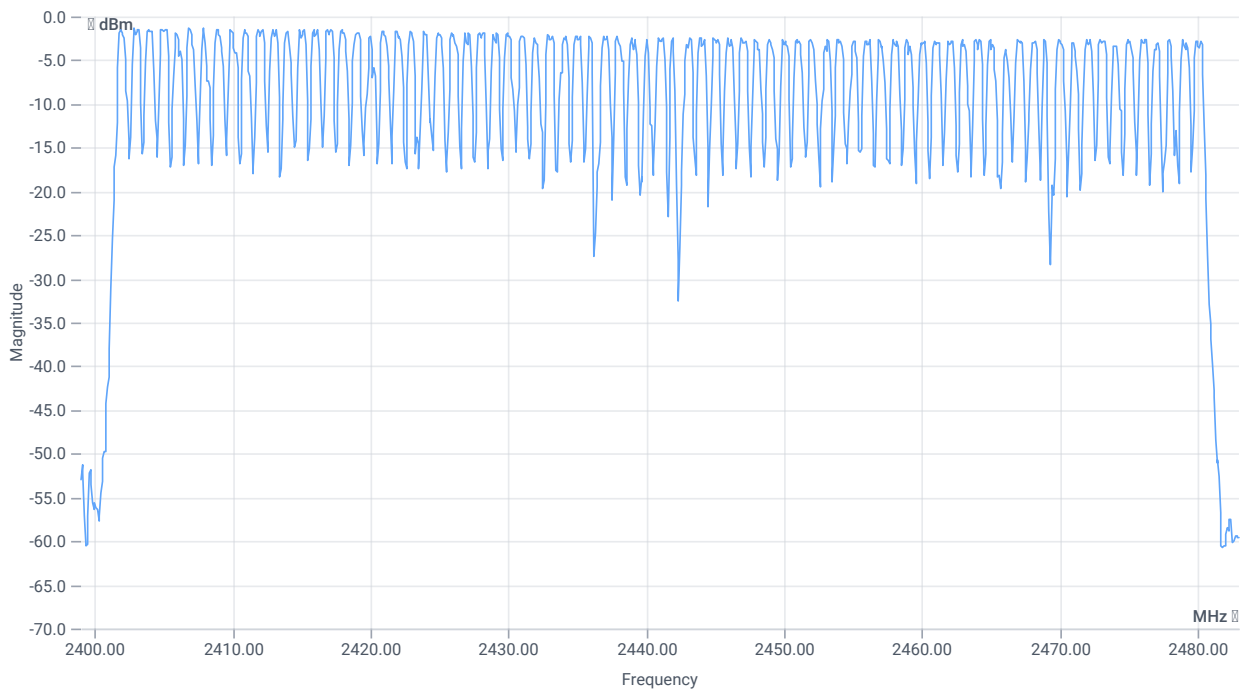
## Test at TX hopping MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-1.35	dBm	INFO
Ref. Frequency	--	--	2411.130	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	3.65   11.86   10
Start [MHz]   Stop [MHz]	2399.000   2483.000
RBW [MHz]   VBW [MHz]	0.200000   0.500000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1   10000   1001   SWE



Number of hopping channels

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Hopp channel (rounded)	--	--	2402	MHz	INFO
Hopp channel (rounded)	--	--	2403	MHz	INFO
Hopp channel (rounded)	--	--	2404	MHz	INFO

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Hopp channel (rounded)	--	--	2405	MHz	INFO
Hopp channel (rounded)	--	--	2406	MHz	INFO
Hopp channel (rounded)	--	--	2407	MHz	INFO
Hopp channel (rounded)	--	--	2408	MHz	INFO
Hopp channel (rounded)	--	--	2409	MHz	INFO
Hopp channel (rounded)	--	--	2410	MHz	INFO
Hopp channel (rounded)	--	--	2411	MHz	INFO
Hopp channel (rounded)	--	--	2412	MHz	INFO
Hopp channel (rounded)	--	--	2413	MHz	INFO
Hopp channel (rounded)	--	--	2414	MHz	INFO
Hopp channel (rounded)	--	--	2415	MHz	INFO
Hopp channel (rounded)	--	--	2416	MHz	INFO
Hopp channel (rounded)	--	--	2417	MHz	INFO
Hopp channel (rounded)	--	--	2418	MHz	INFO
Hopp channel (rounded)	--	--	2419	MHz	INFO
Hopp channel (rounded)	--	--	2420	MHz	INFO
Hopp channel (rounded)	--	--	2421	MHz	INFO
Hopp channel (rounded)	--	--	2422	MHz	INFO
Hopp channel (rounded)	--	--	2423	MHz	INFO
Hopp channel (rounded)	--	--	2424	MHz	INFO
Hopp channel (rounded)	--	--	2425	MHz	INFO
Hopp channel (rounded)	--	--	2426	MHz	INFO
Hopp channel (rounded)	--	--	2427	MHz	INFO
Hopp channel (rounded)	--	--	2428	MHz	INFO
Hopp channel (rounded)	--	--	2429	MHz	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Hopp channel (rounded)	--	--	2430	MHz	INFO
Hopp channel (rounded)	--	--	2431	MHz	INFO
Hopp channel (rounded)	--	--	2432	MHz	INFO
Hopp channel (rounded)	--	--	2433	MHz	INFO
Hopp channel (rounded)	--	--	2434	MHz	INFO
Hopp channel (rounded)	--	--	2435	MHz	INFO
Hopp channel (rounded)	--	--	2436	MHz	INFO
Hopp channel (rounded)	--	--	2437	MHz	INFO
Hopp channel (rounded)	--	--	2438	MHz	INFO
Hopp channel (rounded)	--	--	2439	MHz	INFO
Hopp channel (rounded)	--	--	2440	MHz	INFO
Hopp channel (rounded)	--	--	2441	MHz	INFO
Hopp channel (rounded)	--	--	2442	MHz	INFO
Hopp channel (rounded)	--	--	2443	MHz	INFO
Hopp channel (rounded)	--	--	2444	MHz	INFO
Hopp channel (rounded)	--	--	2445	MHz	INFO
Hopp channel (rounded)	--	--	2446	MHz	INFO
Hopp channel (rounded)	--	--	2447	MHz	INFO
Hopp channel (rounded)	--	--	2448	MHz	INFO
Hopp channel (rounded)	--	--	2449	MHz	INFO
Hopp channel (rounded)	--	--	2450	MHz	INFO
Hopp channel (rounded)	--	--	2451	MHz	INFO
Hopp channel (rounded)	--	--	2452	MHz	INFO
Hopp channel (rounded)	--	--	2453	MHz	INFO
Hopp channel (rounded)	--	--	2454	MHz	INFO

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Hopp channel (rounded)	--	--	2455	MHz	INFO
Hopp channel (rounded)	--	--	2456	MHz	INFO
Hopp channel (rounded)	--	--	2457	MHz	INFO
Hopp channel (rounded)	--	--	2458	MHz	INFO
Hopp channel (rounded)	--	--	2459	MHz	INFO
Hopp channel (rounded)	--	--	2460	MHz	INFO
Hopp channel (rounded)	--	--	2461	MHz	INFO
Hopp channel (rounded)	--	--	2462	MHz	INFO
Hopp channel (rounded)	--	--	2463	MHz	INFO
Hopp channel (rounded)	--	--	2464	MHz	INFO
Hopp channel (rounded)	--	--	2465	MHz	INFO
Hopp channel (rounded)	--	--	2466	MHz	INFO
Hopp channel (rounded)	--	--	2467	MHz	INFO
Hopp channel (rounded)	--	--	2468	MHz	INFO
Hopp channel (rounded)	--	--	2469	MHz	INFO
Hopp channel (rounded)	--	--	2470	MHz	INFO
Hopp channel (rounded)	--	--	2471	MHz	INFO
Hopp channel (rounded)	--	--	2472	MHz	INFO
Hopp channel (rounded)	--	--	2473	MHz	INFO
Hopp channel (rounded)	--	--	2474	MHz	INFO
Hopp channel (rounded)	--	--	2475	MHz	INFO
Hopp channel (rounded)	--	--	2476	MHz	INFO
Hopp channel (rounded)	--	--	2477	MHz	INFO
Hopp channel (rounded)	--	--	2478	MHz	INFO
Hopp channel (rounded)	--	--	2478	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Hopp channel (rounded)	--	--	2479	MHz	INFO
Hopp channel (rounded)	--	--	2480	MHz	INFO
Σ Hopping channels	15	--	80	Number	PASS

Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic Basic rate

### References

TC start	10.08.2023 13:53:42
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	
Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic Basic Rate
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic Basic rate
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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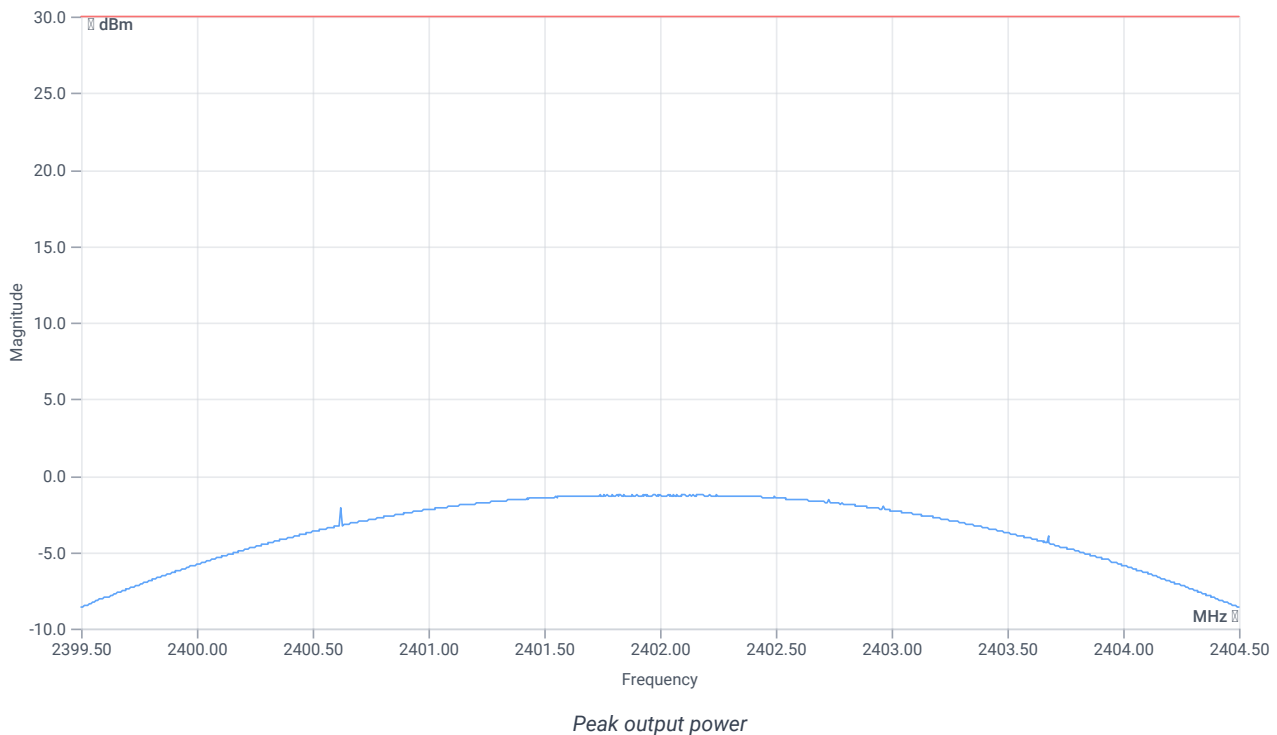
## Test at TX 2402 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-2.85	dBm	INFO
Ref. Frequency	--	--	2402.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	7.15   11.79   15
Start [MHz]   Stop [MHz]	2399.500   2404.500
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1000   10   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak Power	--	30.00	-1.28	dBm	PASS
Peak Power	--	1000	0.744732	mW	PASS
Frequency at Peak	--	--	2401.83	MHz	INFO



Verdict

PASS

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic Basic rate

## References

TC start	10.08.2023 13:54:14
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247, ISED RSS247   NI
Method	
Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic Basic Rate
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic Basic rate
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

## Equipment

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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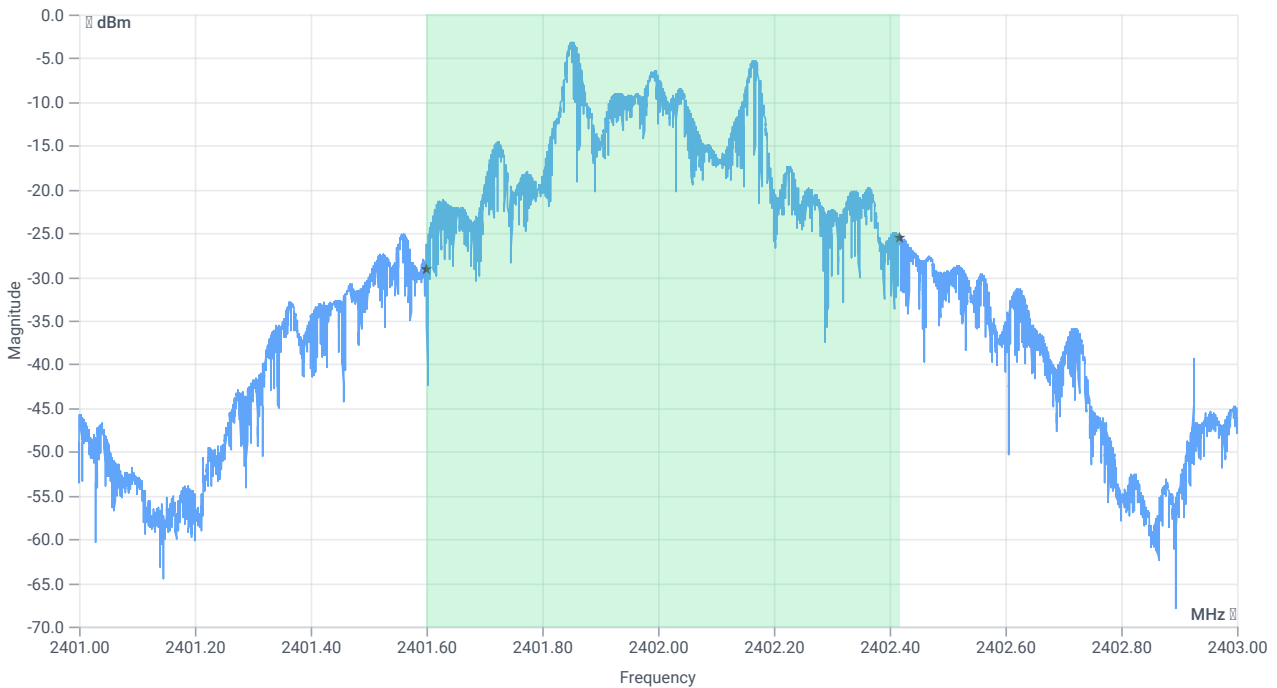
## Test at TX 2402 MHz

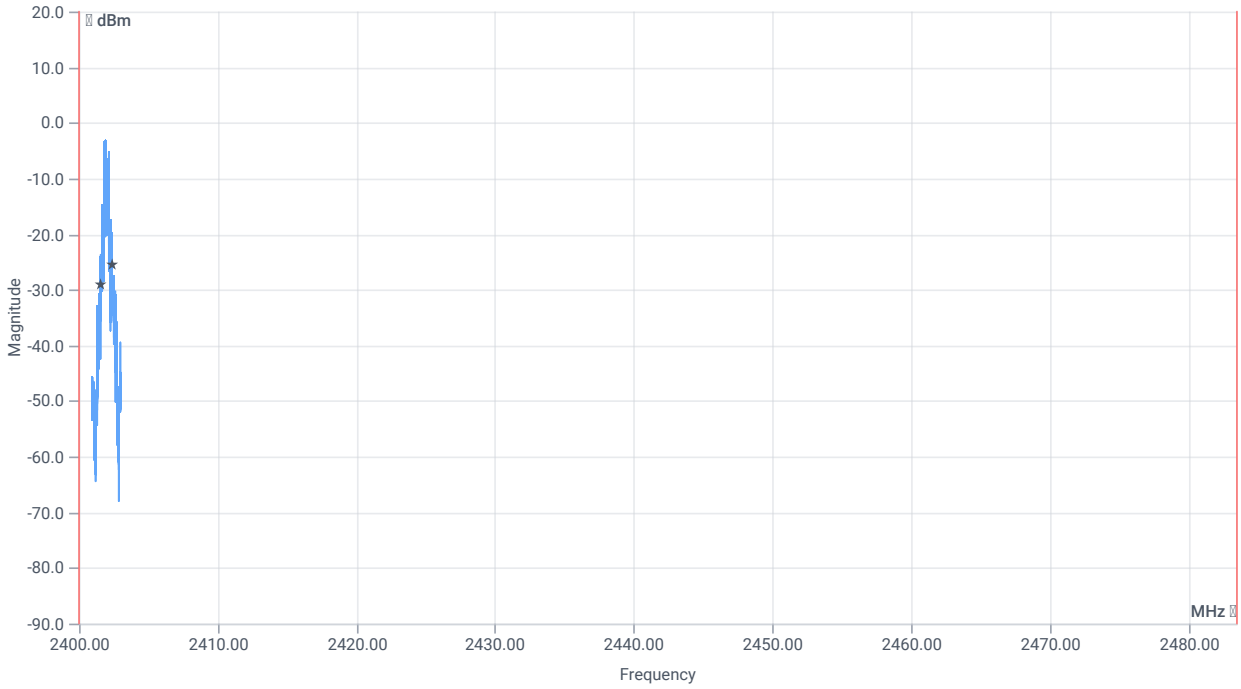
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-2.85	dBm	INFO
Ref. Frequency	--	--	2402.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	2.15   11.79   10
Start [MHz]   Stop [MHz]	2401.000   2403.000
RBW [MHz]   VBW [MHz]	0.020000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	50   200   10001   SWE

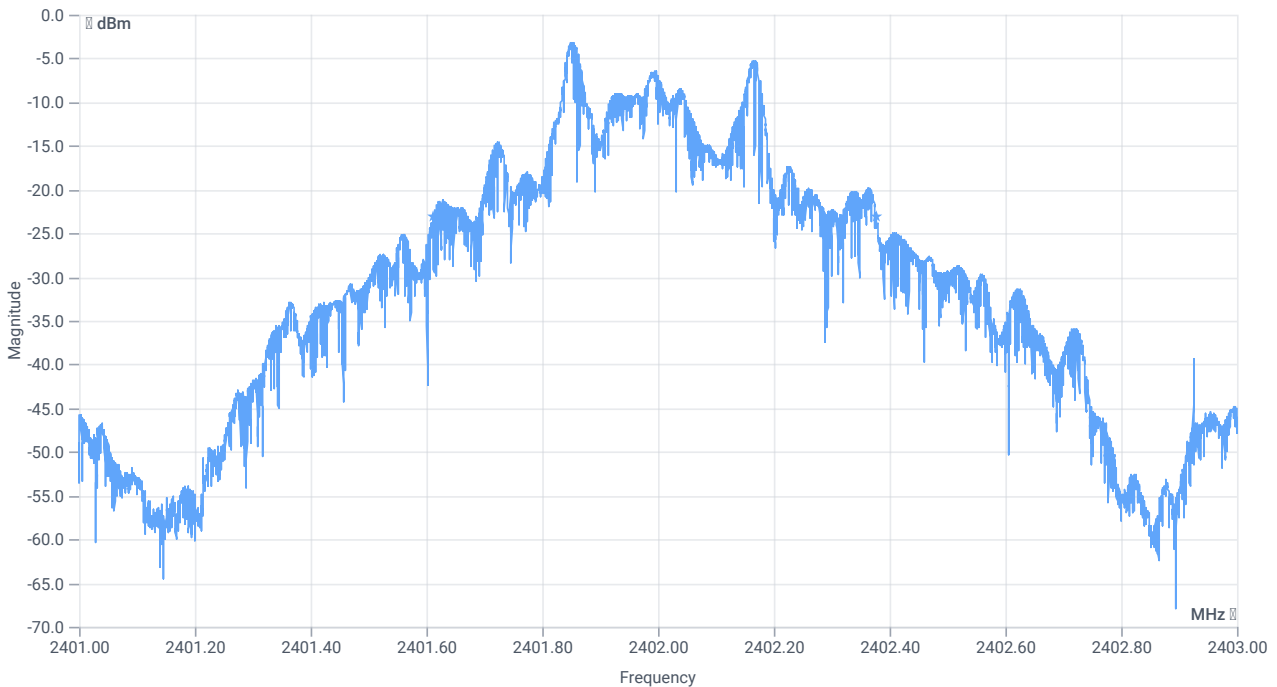




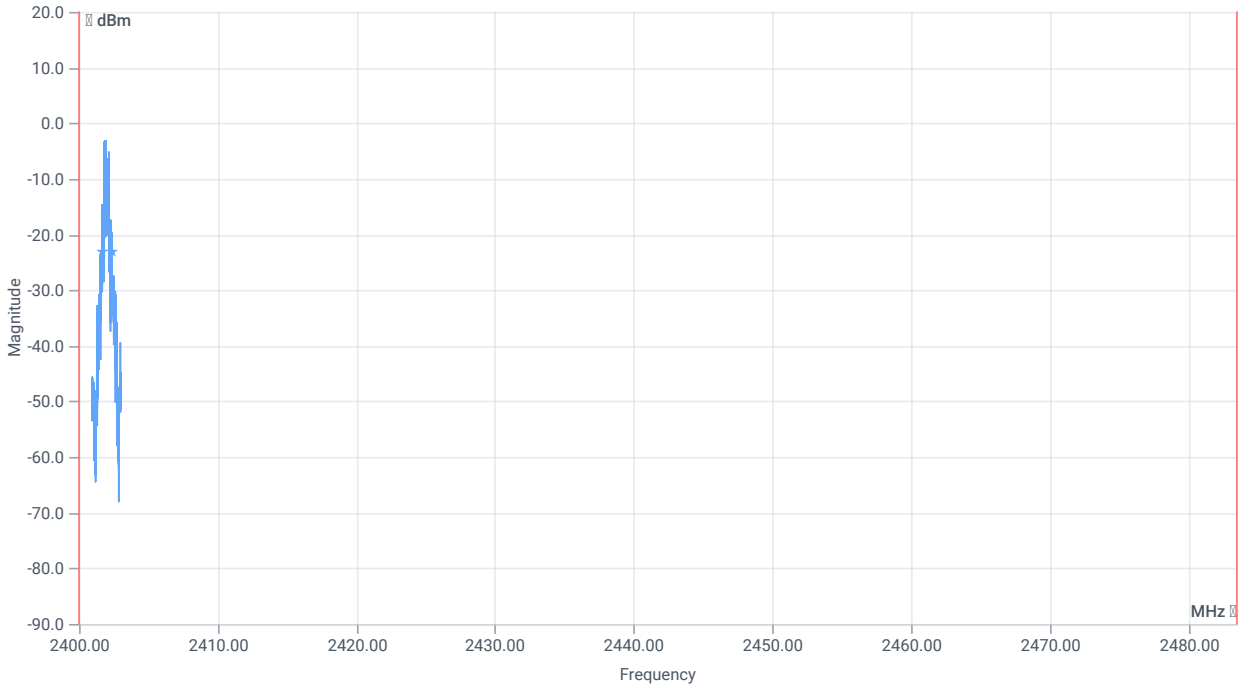
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	818.000	kHz	INFO
T1 99%	2400.000000	--	2401.5996	MHz	PASS
T2 99%	--	2483.500000	2402.4174	MHz	PASS



BW 20dB



BW within Band 20dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	765	kHz	INFO
T1 20DB	2400.000000	--	2401.6118	MHz	PASS
T2 20dB	--	2483.500000	2402.3768	MHz	PASS

Verdict

PASS

## FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic Basic rate

### References

TC start	10.08.2023 15:35:53
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic Basic Rate
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic Basic rate
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
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## Equipment

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

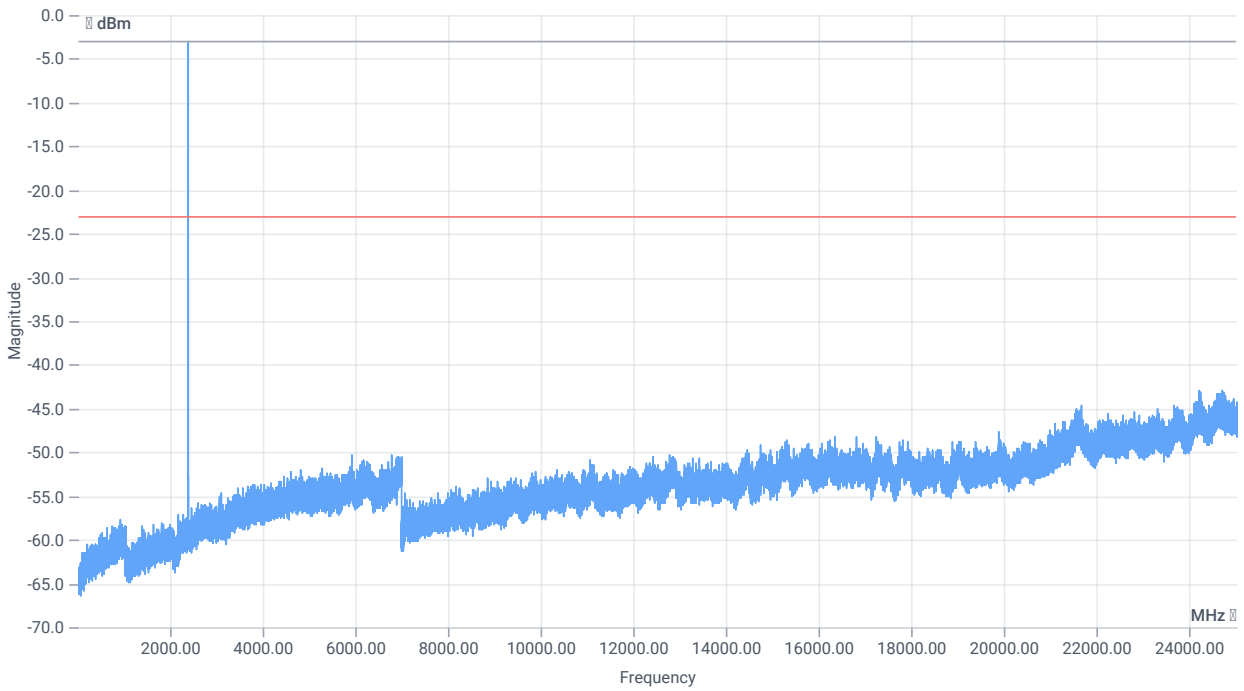
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## Test at TX 2402 MHz

RESULT: Reference Power cond.

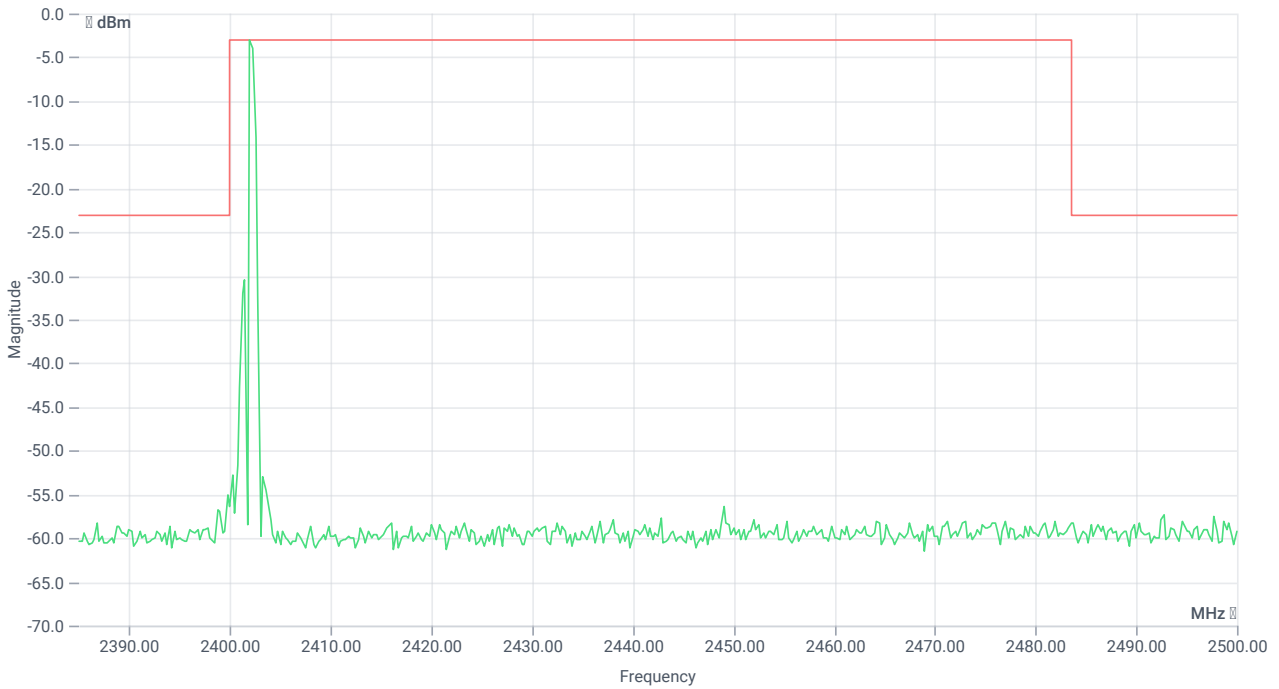
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.32	dBm	INFO
Ref. Frequency	--	--	2402.400	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	-3.32   0   15
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   2001   SWE



TX emissions band zoomed

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2402.00 MHz	--	--	-3.01	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 24693.75 MHz	0	--	19.88	dB	INFO

Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic Basic rate

### References

TC start	10.08.2023 14:00:06
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	
Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic Basic Rate
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic Basic rate
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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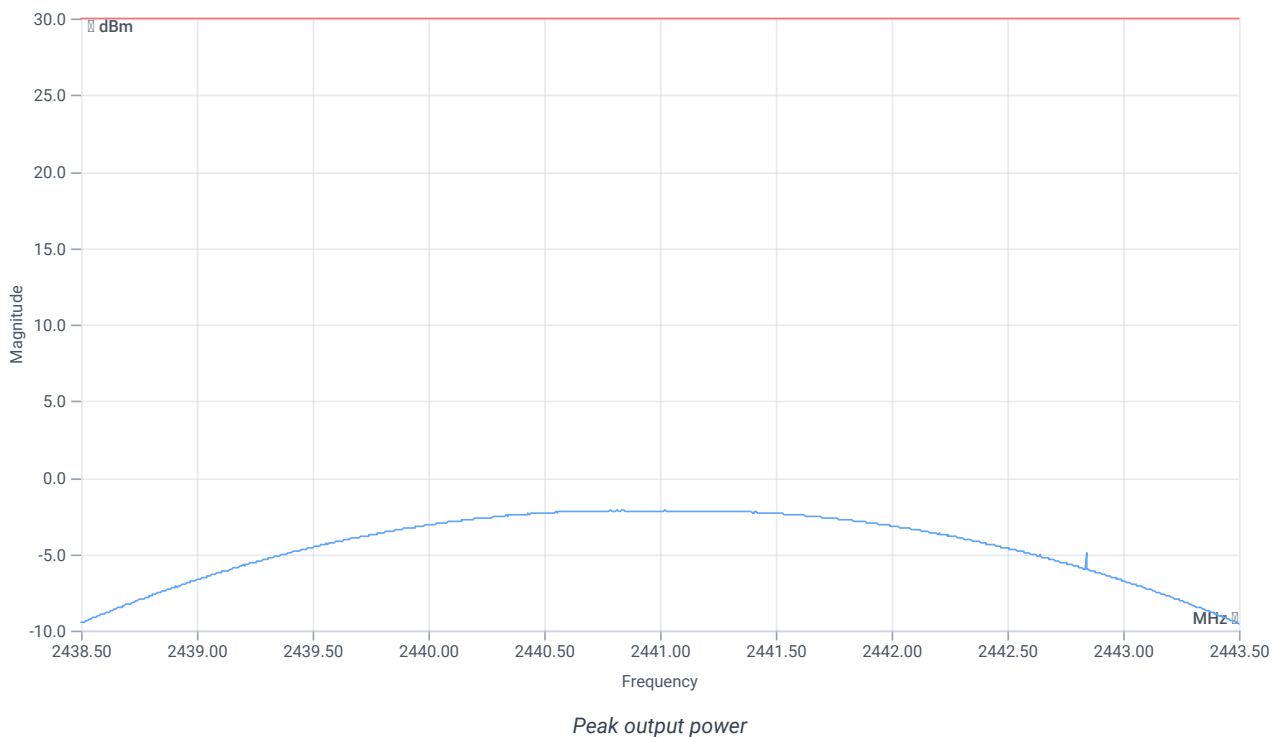
## Test at TX 2441 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.70	dBm	INFO
Ref. Frequency	--	--	2441.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	6.30   11.86   10
Start [MHz]   Stop [MHz]	2438.500   2443.500
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1000   10   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak Power	--	30.00	-2.15	dBm	PASS
Peak Power	--	1000	0.609537	mW	PASS
Frequency at Peak	--	--	2440.835	MHz	INFO

Verdict

PASS

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic Basic rate

## References

TC start	10.08.2023 14:00:39
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247, ISED RSS247   NI
Method	
Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic Basic Rate
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic Basic rate
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

## Equipment

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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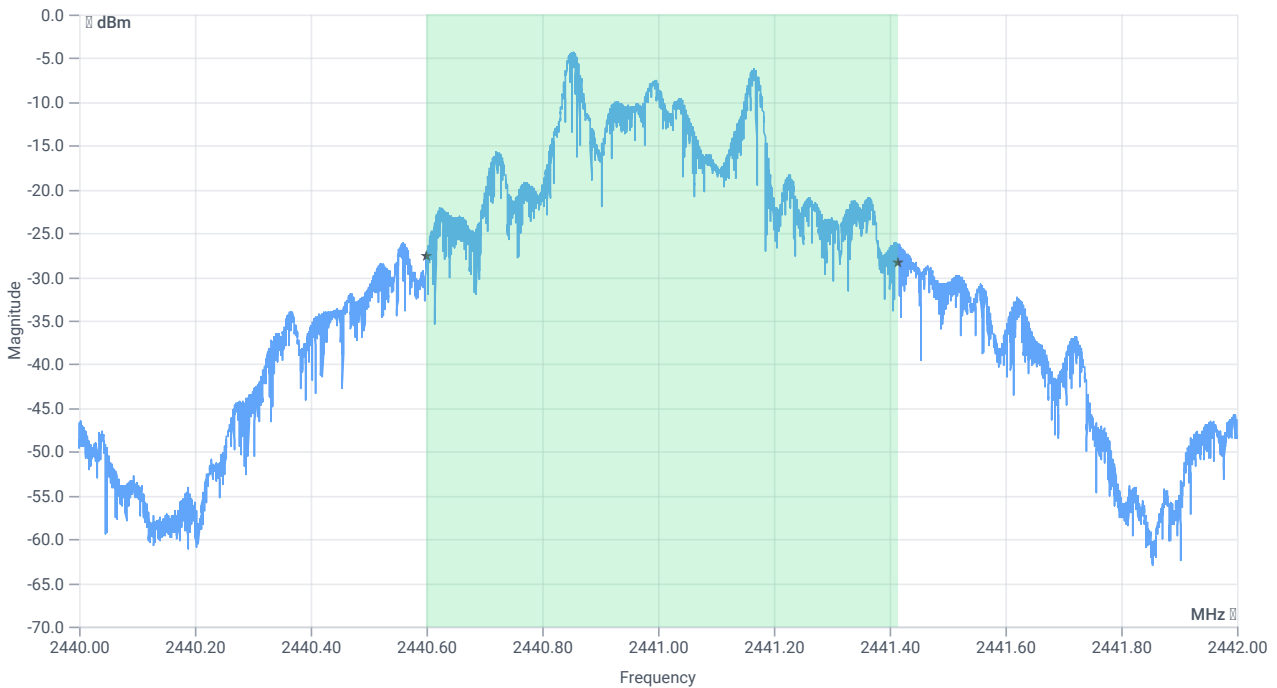
## Test at TX 2441 MHz

RESULT: Reference Power cond.

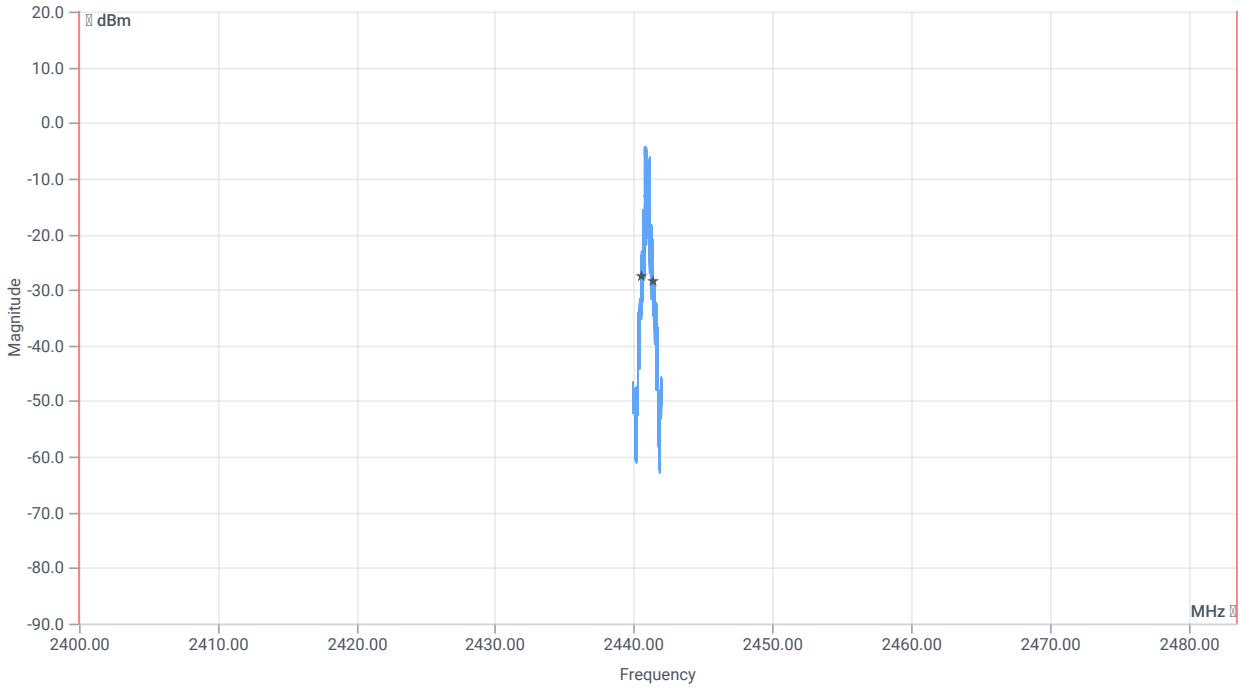
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.73	dBm	INFO
Ref. Frequency	--	--	2441.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	1.27   11.86   5
Start [MHz]   Stop [MHz]	2440.000   2442.000
RBW [MHz]   VBW [MHz]	0.020000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	50   200   10001   SWE



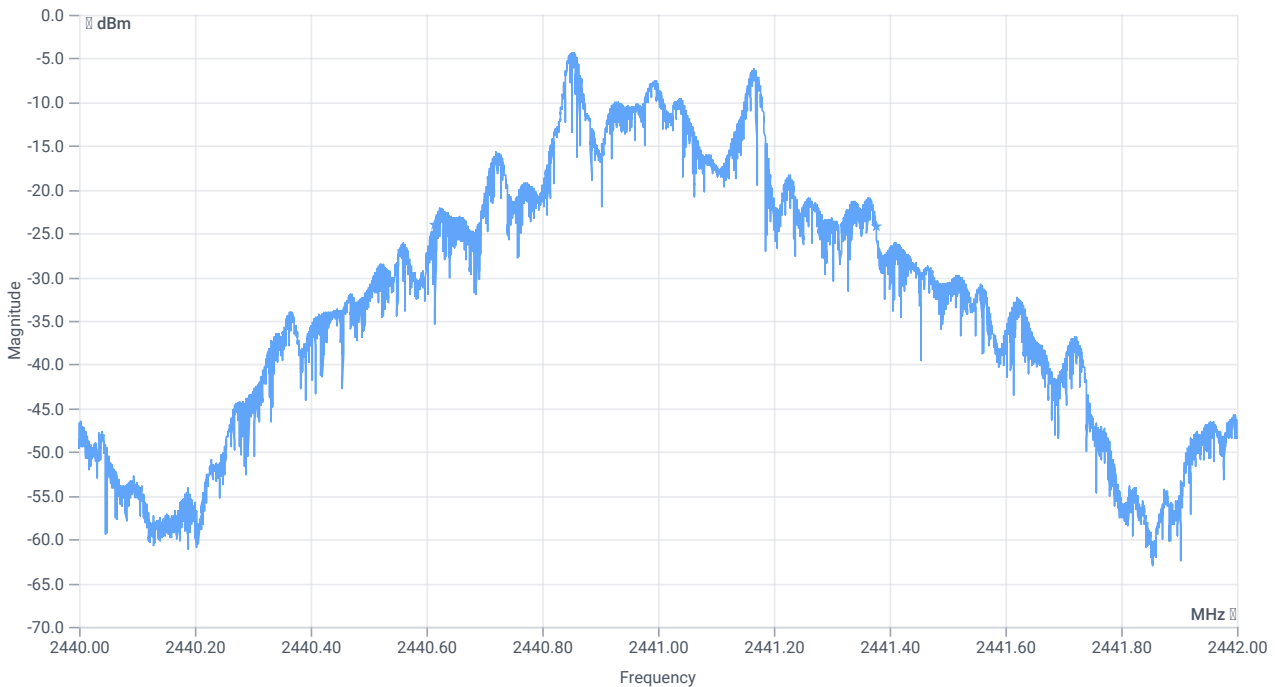
BW 99PCT



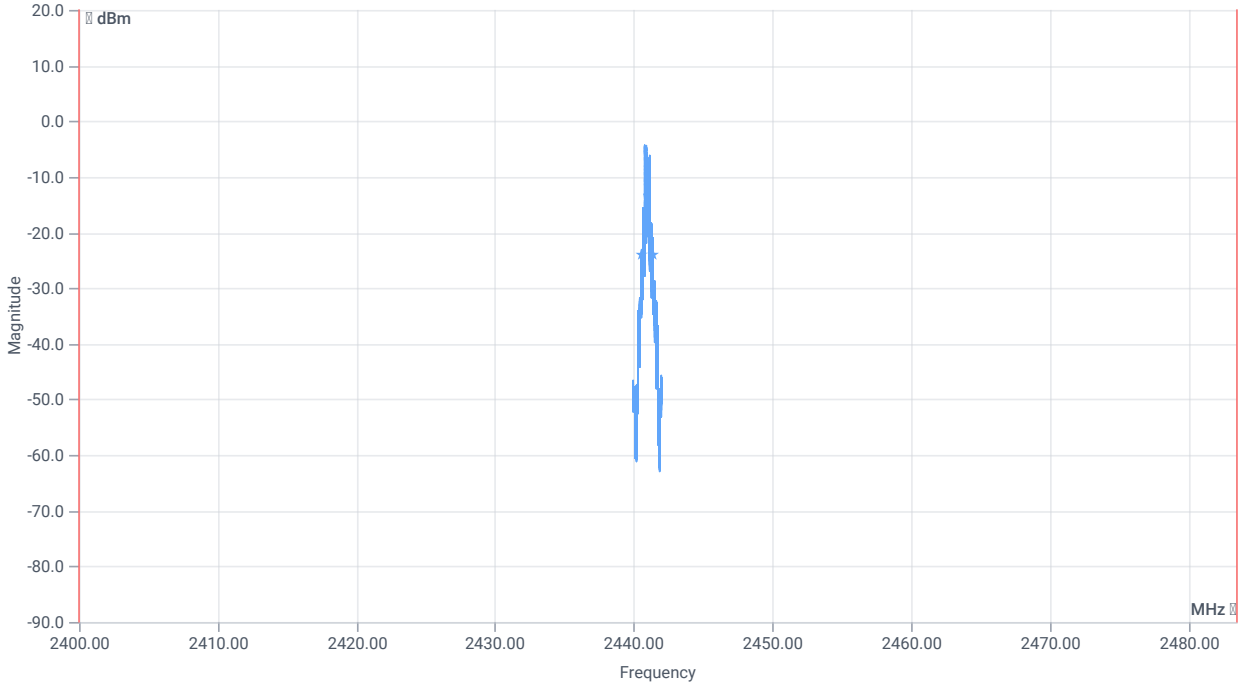
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	814.000	kHz	INFO
T1 99%	2400.000000	--	2440.6010	MHz	PASS
T2 99%	--	2483.500000	2441.4148	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	764	kHz	INFO
T1 20dB	2400.000000	--	2440.6130	MHz	PASS
T2 20dB	--	2483.500000	2441.3766	MHz	PASS

Verdict

PASS

## FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic Basic rate

### References

TC start	10.08.2023 14:01:20
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic Basic Rate
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic Basic rate
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
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## Equipment

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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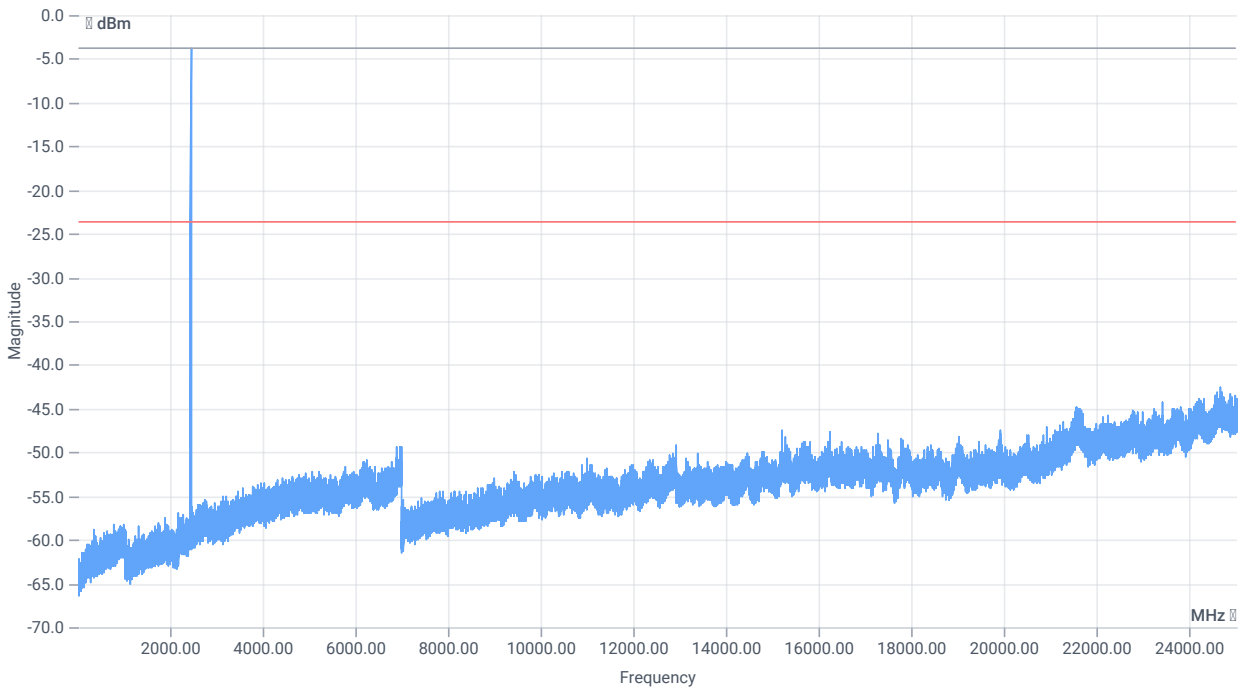
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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## Test at TX 2441 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.61	dBm	INFO
Ref. Frequency	--	--	2441.400	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	-3.61   0   15
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   2001   SWE



TX emissions band zoomed

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2441.00 MHz	--	--	-3.72	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 24673.25 MHz	0	--	18.86	dB	INFO

Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic Basic rate

### References

TC start	10.08.2023 14:09:10
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	
Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic Basic Rate
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic Basic rate
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment



## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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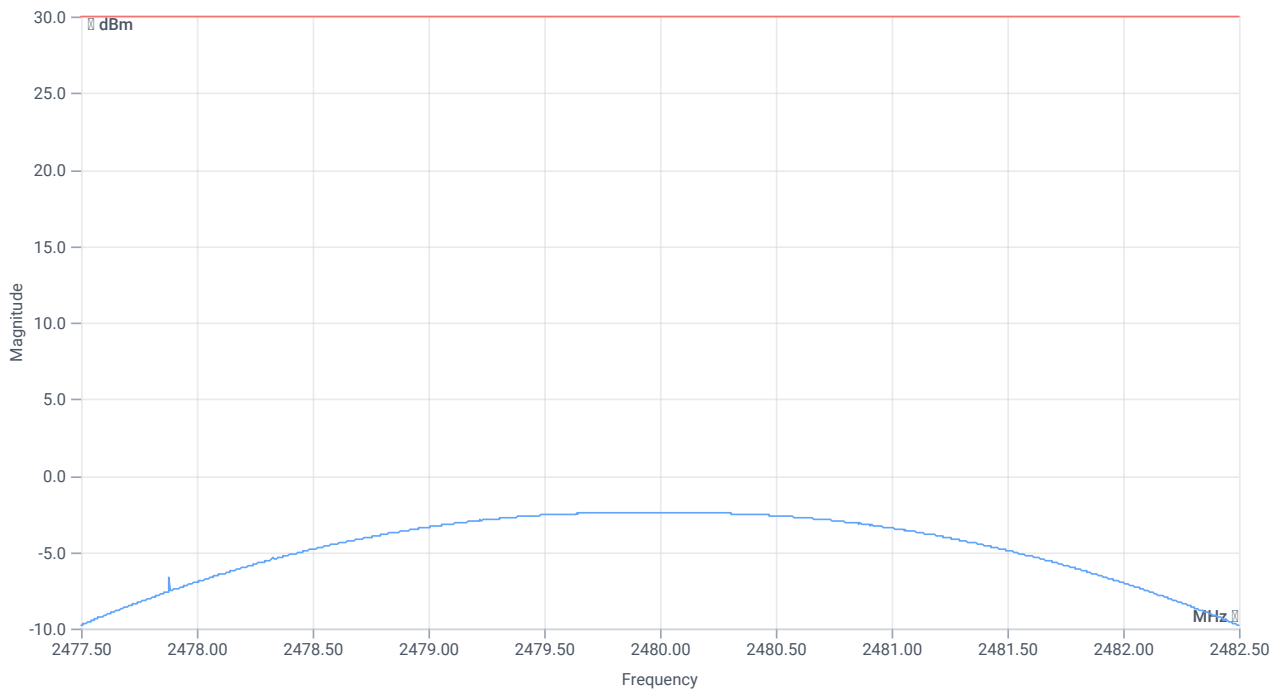
## Test at TX 2480 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-4.08	dBm	INFO
Ref. Frequency	--	--	2479.600	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	5.92   11.91   10
Start [MHz]   Stop [MHz]	2477.500   2482.500
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1000   10   1001   SWE



Peak output power

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak Power	--	30.00	-2.43	dBm	PASS
Peak Power	--	1000	0.571479	mW	PASS
Frequency at Peak	--	--	2479.8	MHz	INFO

Verdict

PASS

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic Basic rate

## References

TC start	10.08.2023 14:09:44
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247, ISED RSS247   NI
Method	
Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic Basic Rate
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic Basic rate
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

## Equipment

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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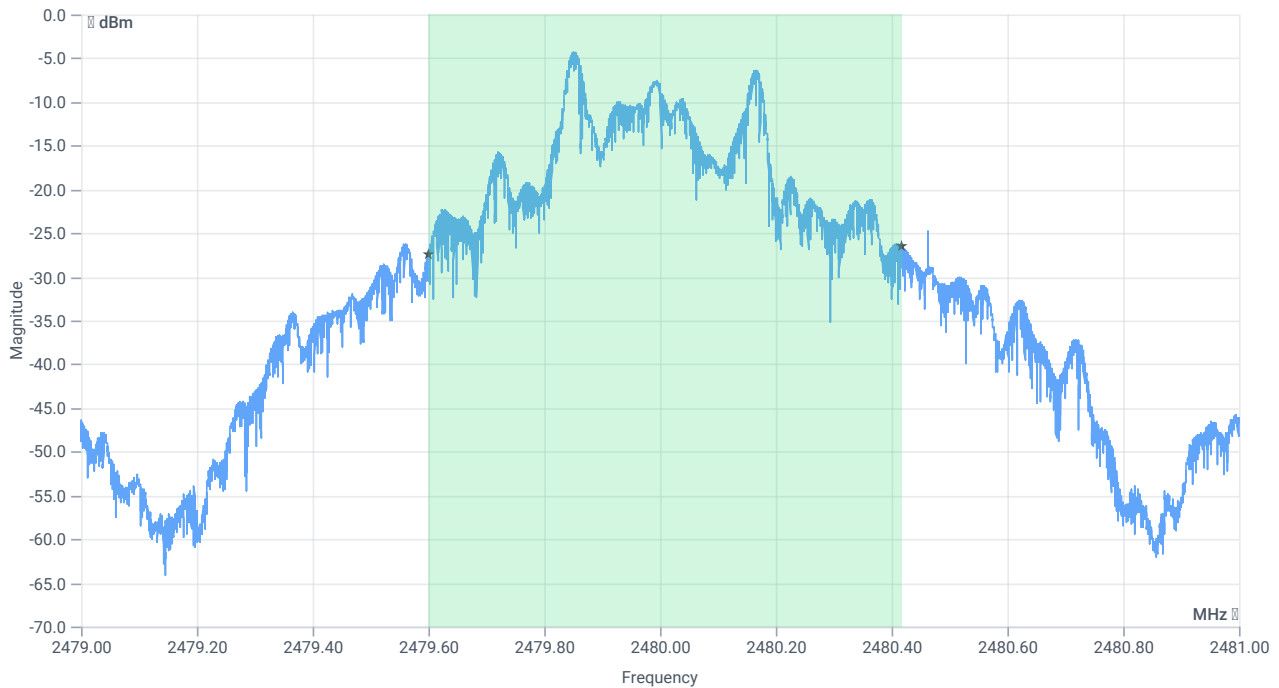
## Test at TX 2480 MHz

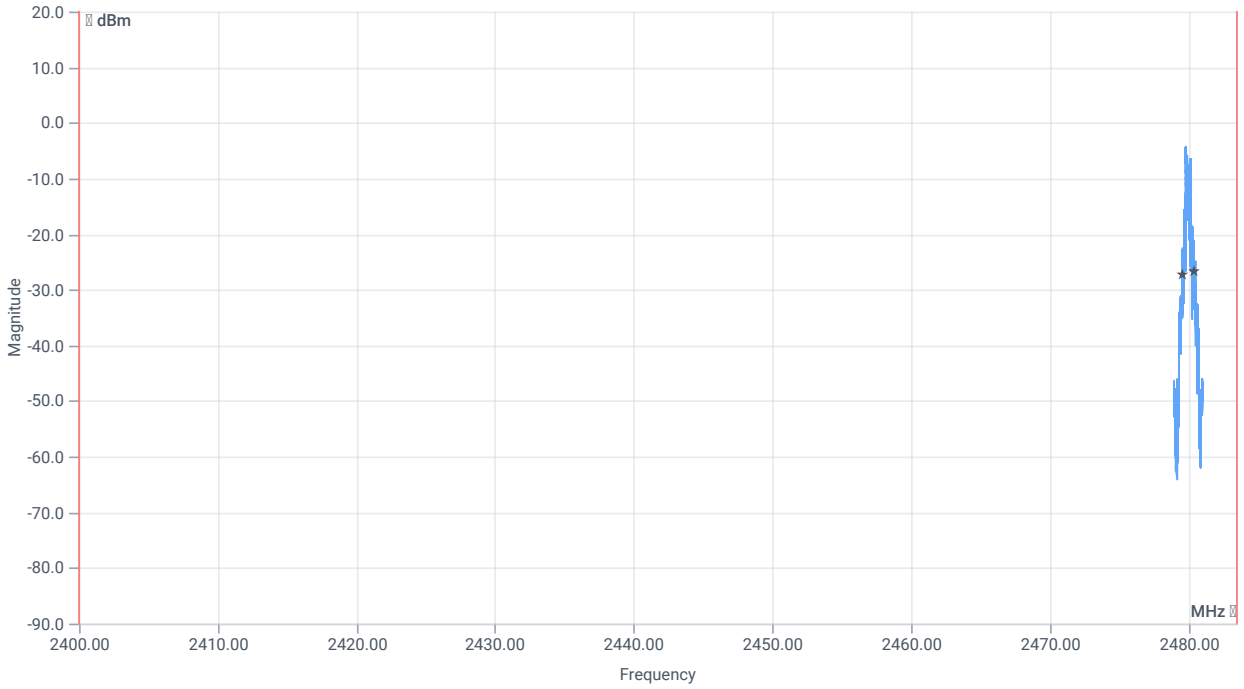
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.97	dBm	INFO
Ref. Frequency	--	--	2480.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	1.03   11.91   5
Start [MHz]   Stop [MHz]	2479.000   2481.000
RBW [MHz]   VBW [MHz]	0.020000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	50   200   10001   SWE

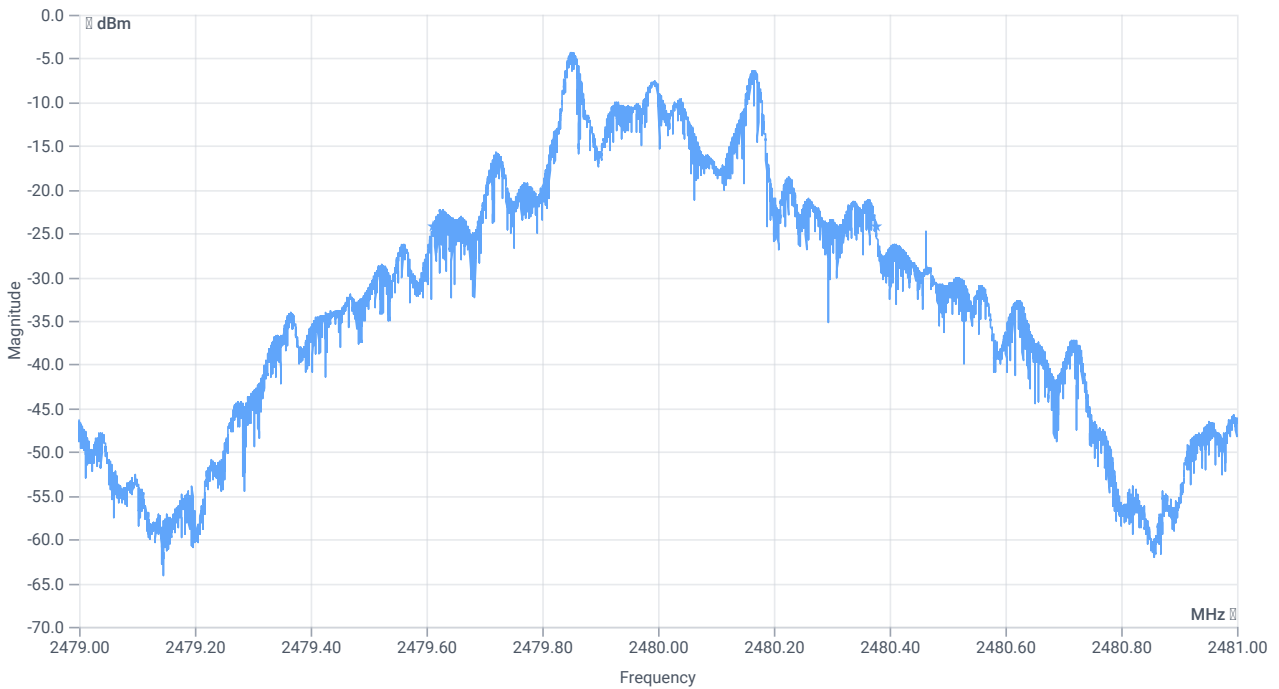




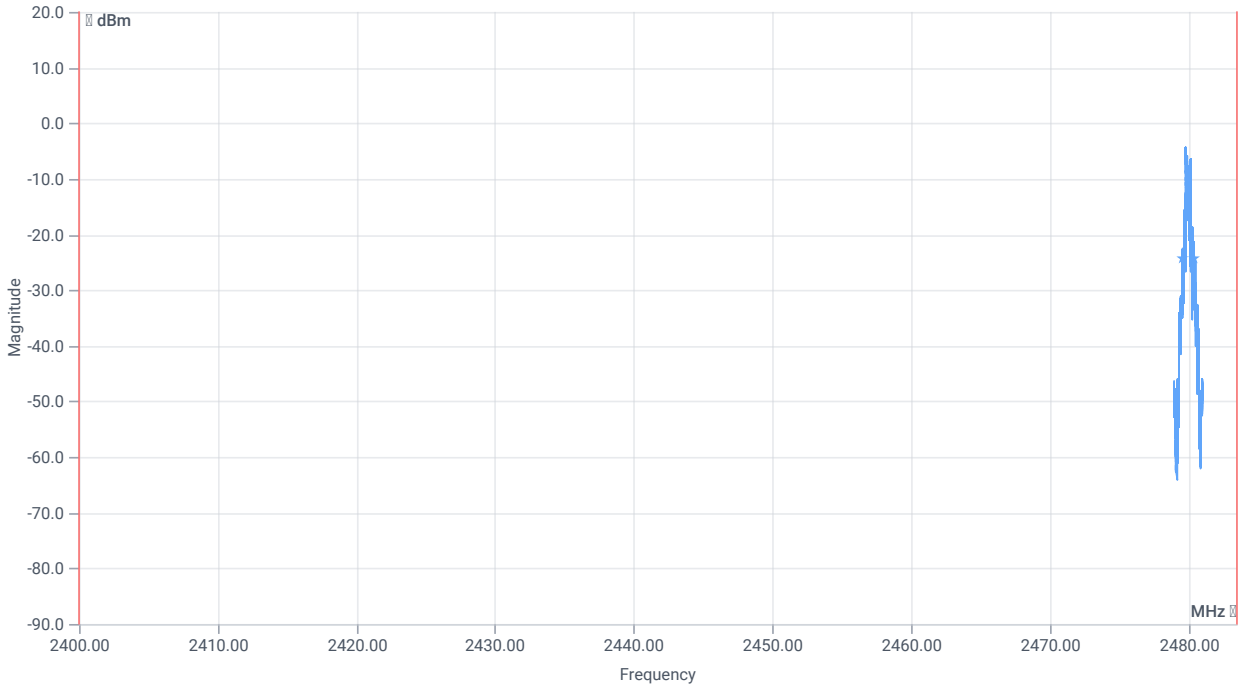
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	817.000	kHz	INFO
T1 99%	2400.000000	--	2479.6000	MHz	PASS
T2 99%	--	2483.500000	2480.4166	MHz	PASS



BW 20dB



BW within Band 20dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	764	kHz	INFO
T1 20dB	2400.000000	--	2479.6116	MHz	PASS
T2 20dB	--	2483.500000	2480.3760	MHz	PASS

Verdict

PASS



## FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic Basic rate

### References

TC start	10.08.2023 14:10:26
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic Basic Rate
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic Basic rate
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
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## Equipment

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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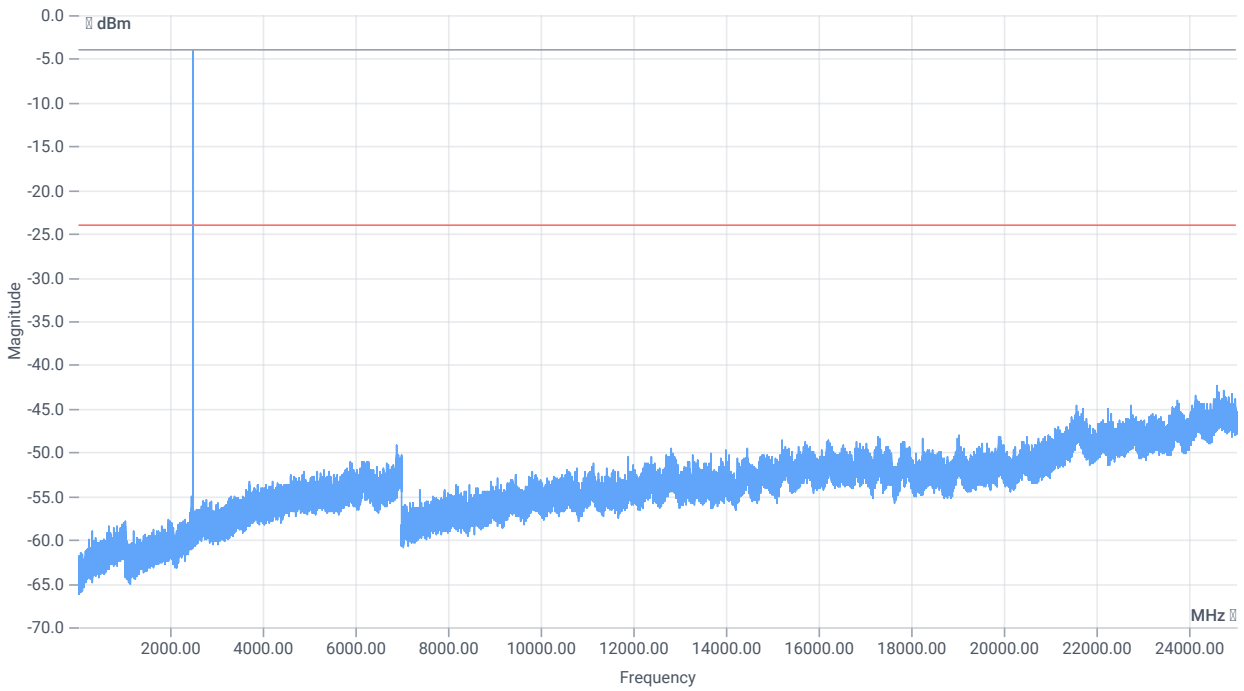
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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## Test at TX 2480 MHz

RESULT: Reference Power cond.

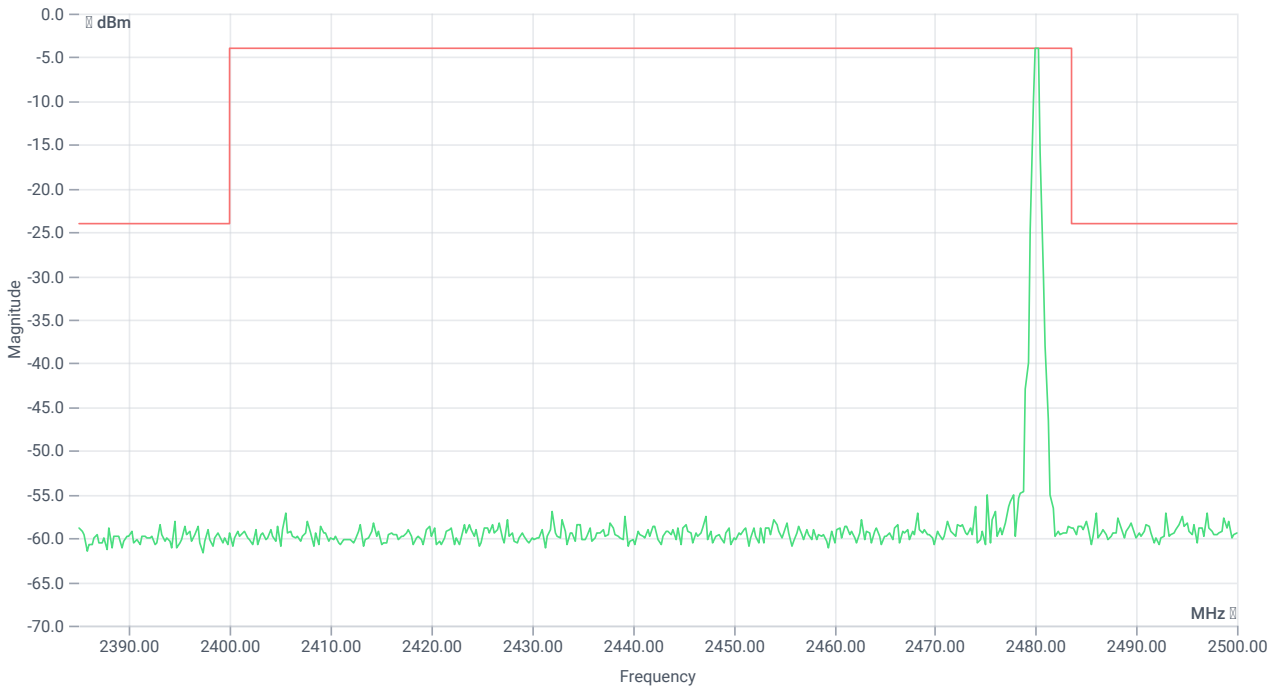
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-4.07	dBm	INFO
Ref. Frequency	--	--	2480.400	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	-4.07   0   15
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   2001   SWE



TX emissions band zoomed

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2480.25 MHz	--	--	-3.96	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 30 MHz	0	--	-135.96	dB	INFO

Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic EDR Pi/4DQPSK

### References

TC start	10.08.2023 14:27:06
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	
Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR Pi/4DQPSK
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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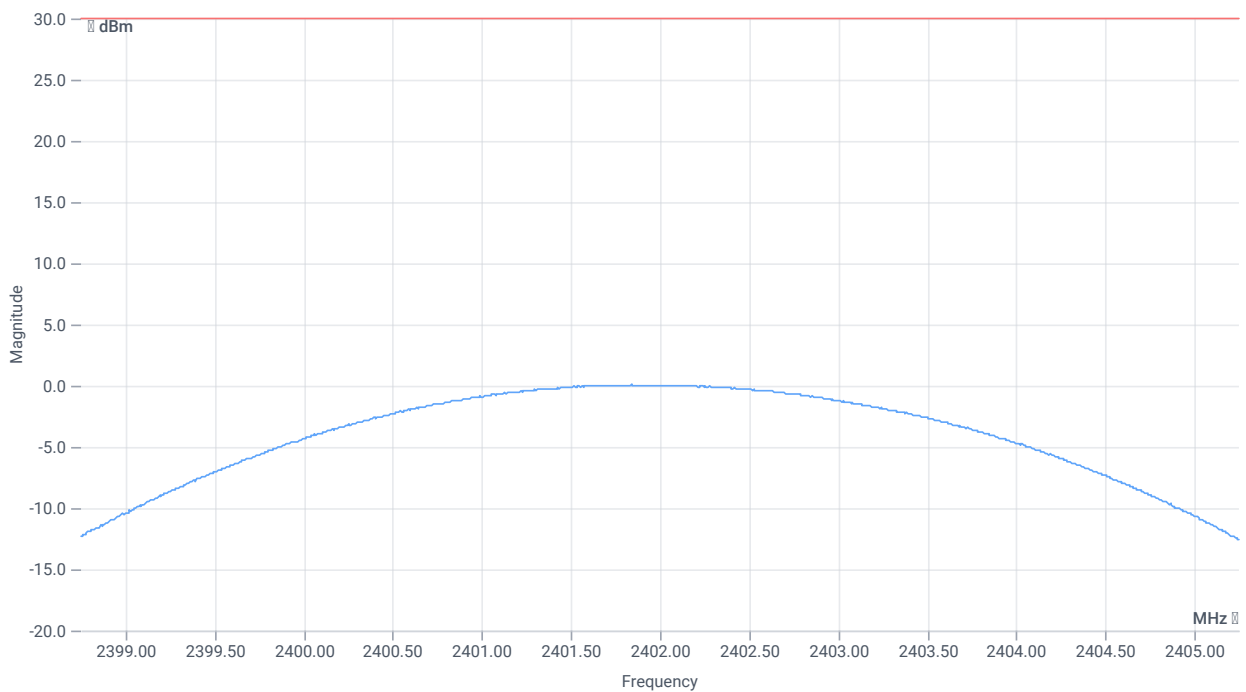
## Test at TX 2402 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-2.98	dBm	INFO
Ref. Frequency	--	--	2402.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	7.02   11.79   15
Start [MHz]   Stop [MHz]	2398.750   2405.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1000   10   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak Power	--	30.00	0.07	dBm	PASS
Peak Power	--	1000	1.016249	mW	PASS
Frequency at Peak	--	--	2401.838	MHz	INFO

Verdict

PASS



# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic EDR Pi/4DQPSK

## References

TC start	10.08.2023 14:27:41
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247, ISED RSS247   NI
Method	
Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR Pi/4DQPSK
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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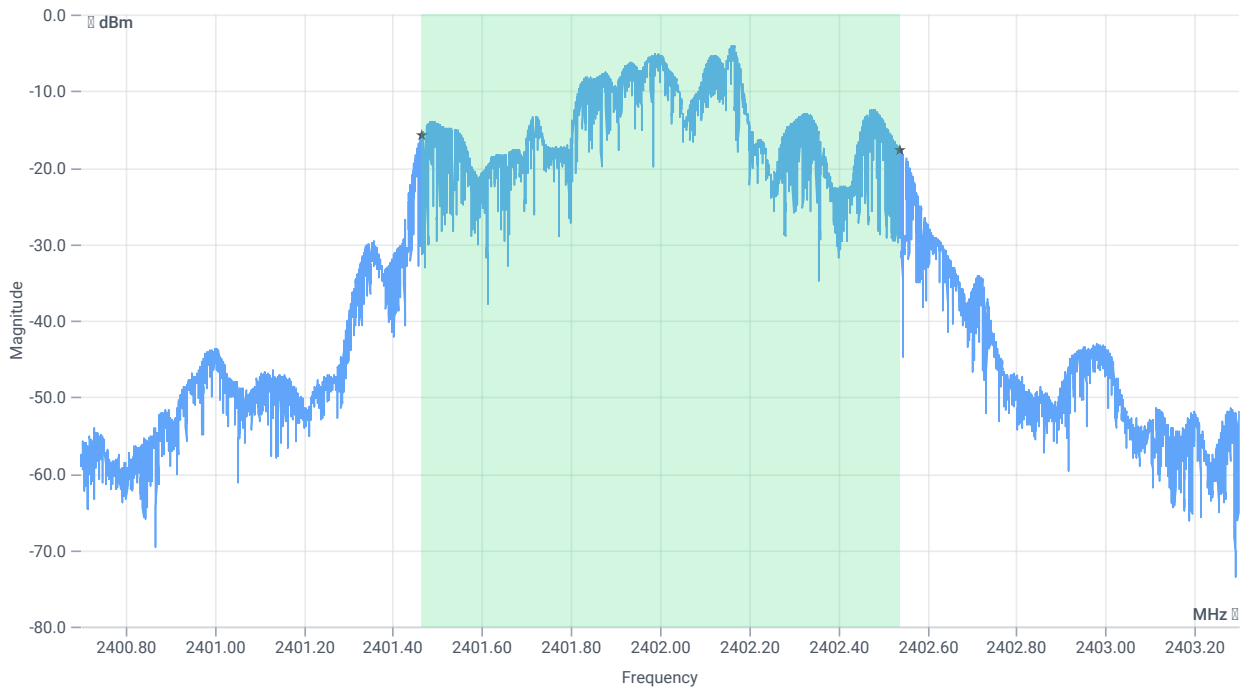
## Test at TX 2402 MHz

RESULT: Reference Power cond.

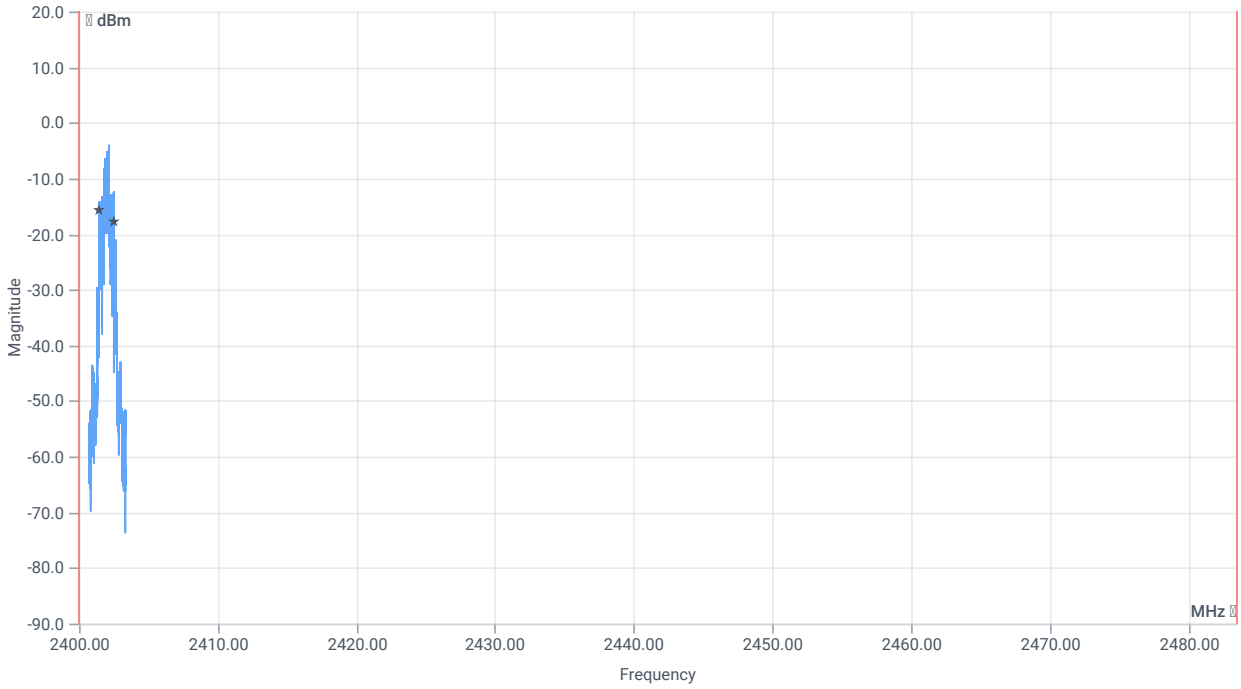
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-2.48	dBm	INFO
Ref. Frequency	--	--	2402.500	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	2.52   11.79   10
Start [MHz]   Stop [MHz]	2400.700   2403.300
RBW [MHz]   VBW [MHz]	0.030000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	50   200   10001   SWE



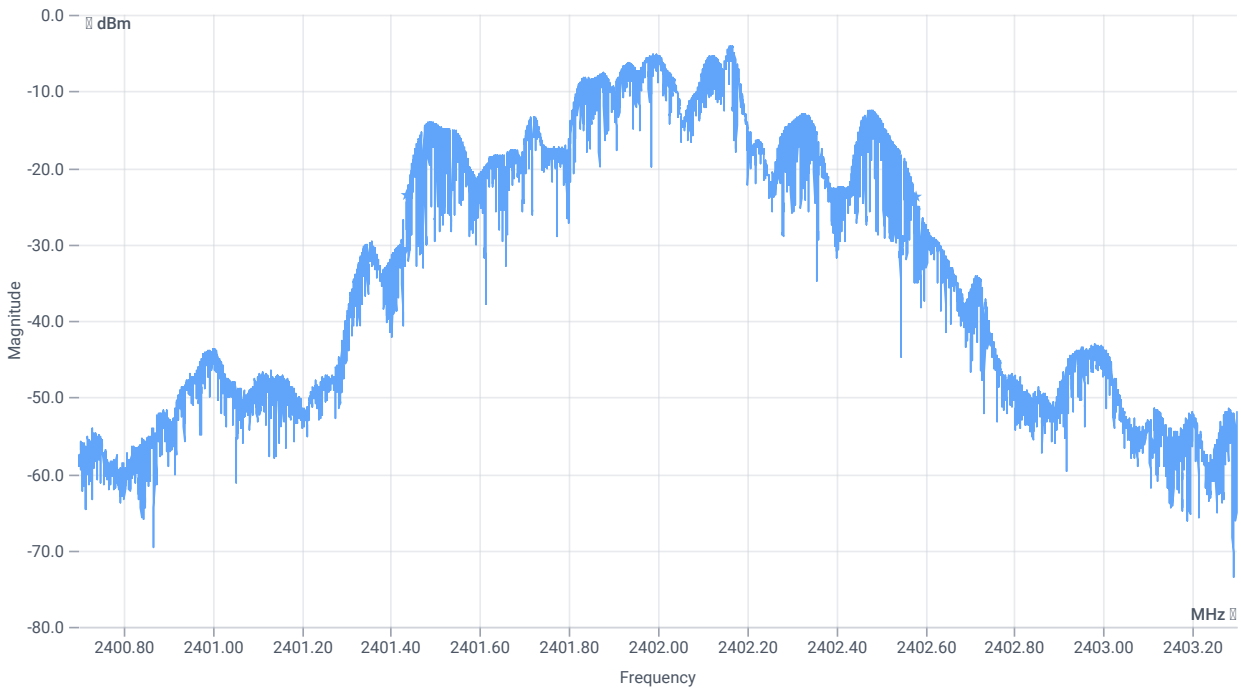
BW 99PCT



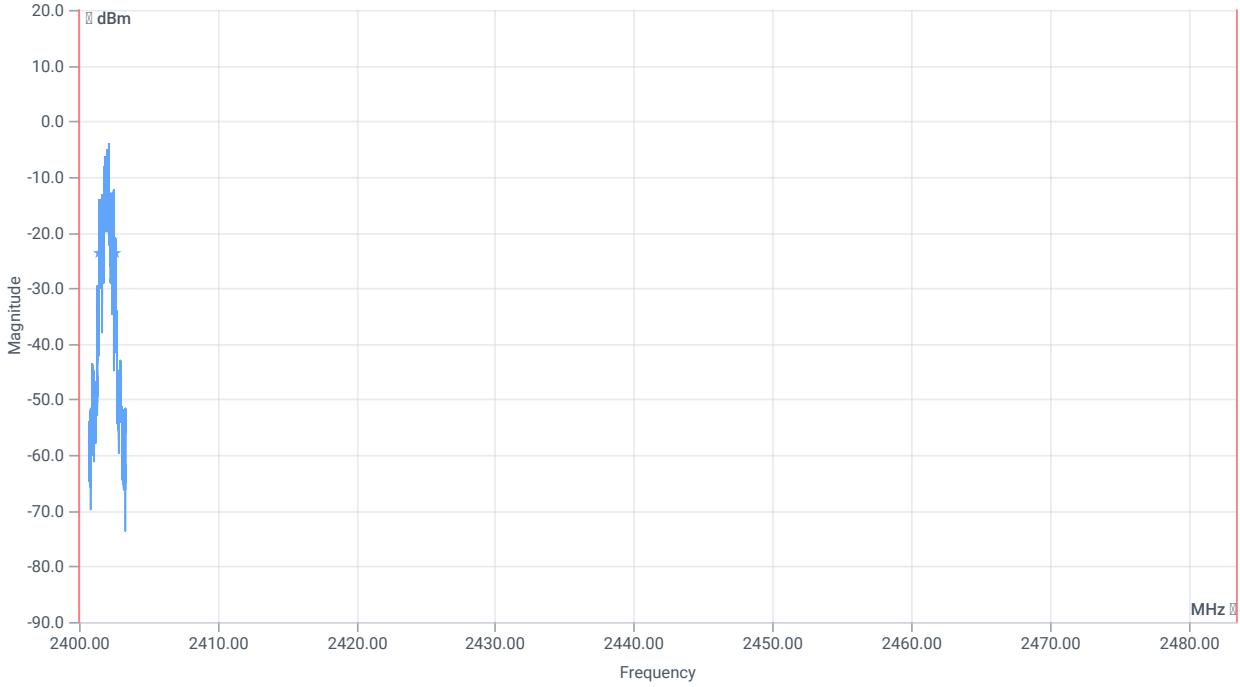
BW within Band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1072.000	kHz	INFO
T1 99%	2400.000000	--	2401.4660	MHz	PASS
T2 99%	--	2483.500000	2402.5379	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1142	kHz	INFO
T1 20dB	2400.000000	--	2401.4363	MHz	PASS
T2 20dB	--	2483.500000	2402.5785	MHz	PASS

Verdict

PASS

## FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic EDR Pi/4DQPSK

### References

TC start	10.08.2023 14:28:25
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic EDR Pi/4DQPSK
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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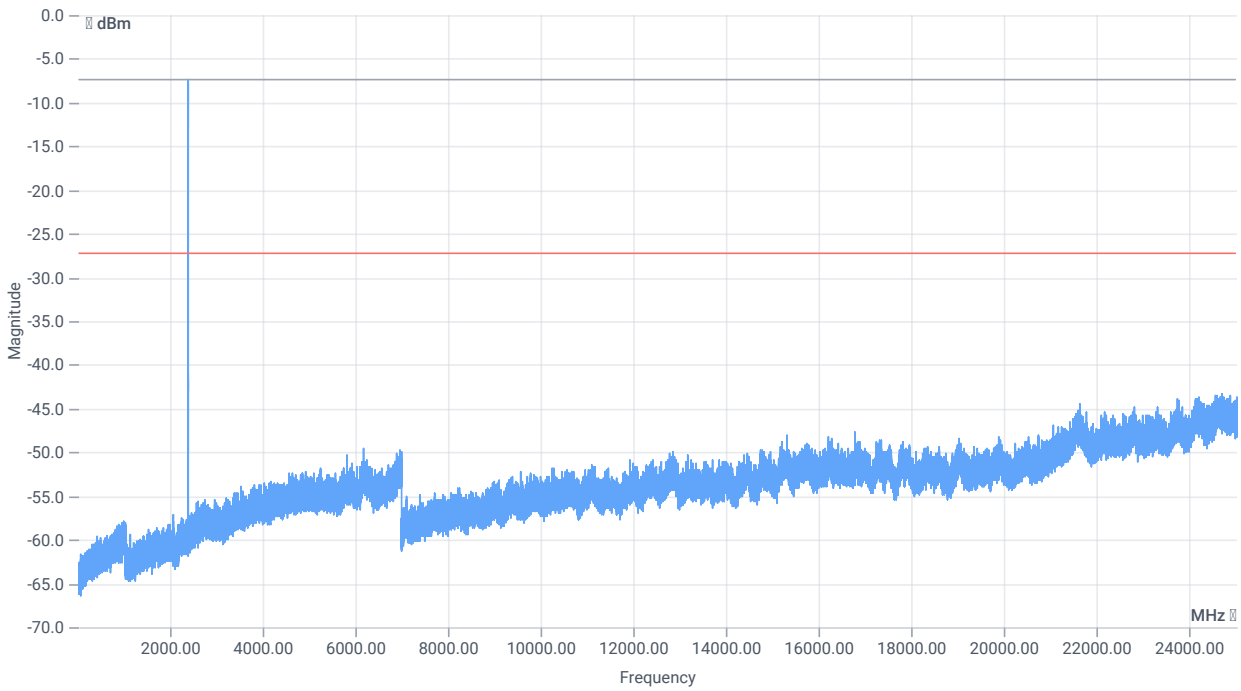
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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## Test at TX 2402 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.01	dBm	INFO
Ref. Frequency	--	--	2401.600	MHz	INFO

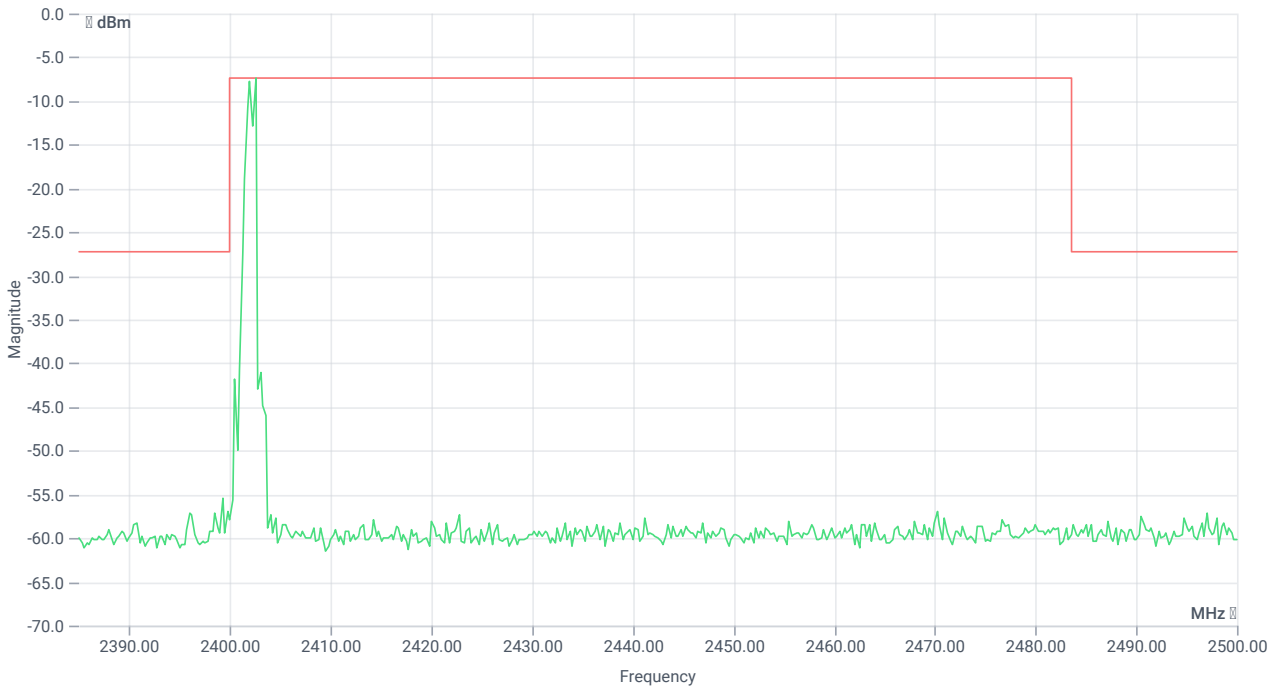


TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	-3.01   0   15
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   2001   SWE





TX emissions band zoomed

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2402.50 MHz	--	--	-7.32	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 24695 MHz	0	--	16.08	dB	INFO

Verdict

PASS

# FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic EDR Pi/4DQPSK

## References

TC start	10.08.2023 14:37:29
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	
Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR Pi/4DQPSK
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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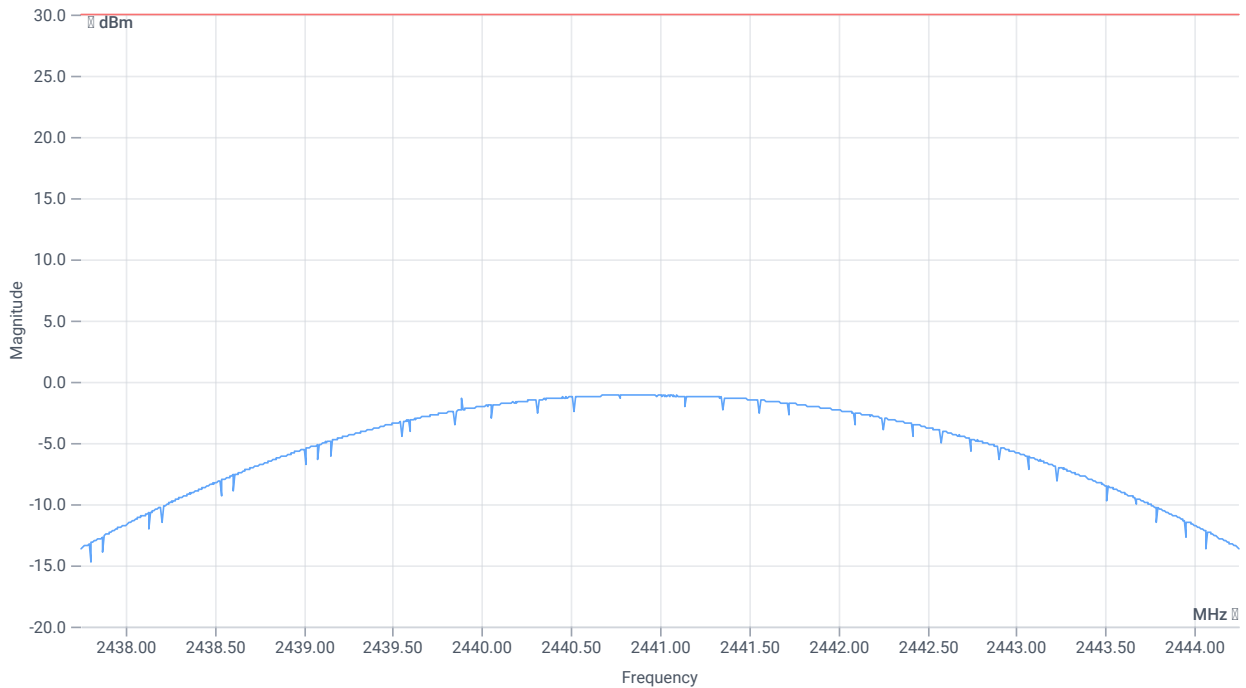
## Test at TX 2441 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.76	dBm	INFO
Ref. Frequency	--	--	2441.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	6.24   11.86   10
Start [MHz]   Stop [MHz]	2437.750   2444.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1000   10   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak Power	--	30.00	-1.09	dBm	PASS
Peak Power	--	1000	0.778037	mW	PASS
Frequency at Peak	--	--	2440.851	MHz	INFO

Verdict

PASS

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic EDR Pi/4DQPSK

## References

TC start	10.08.2023 14:38:08
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247, ISED RSS247   NI
Method	
Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR Pi/4DQPSK
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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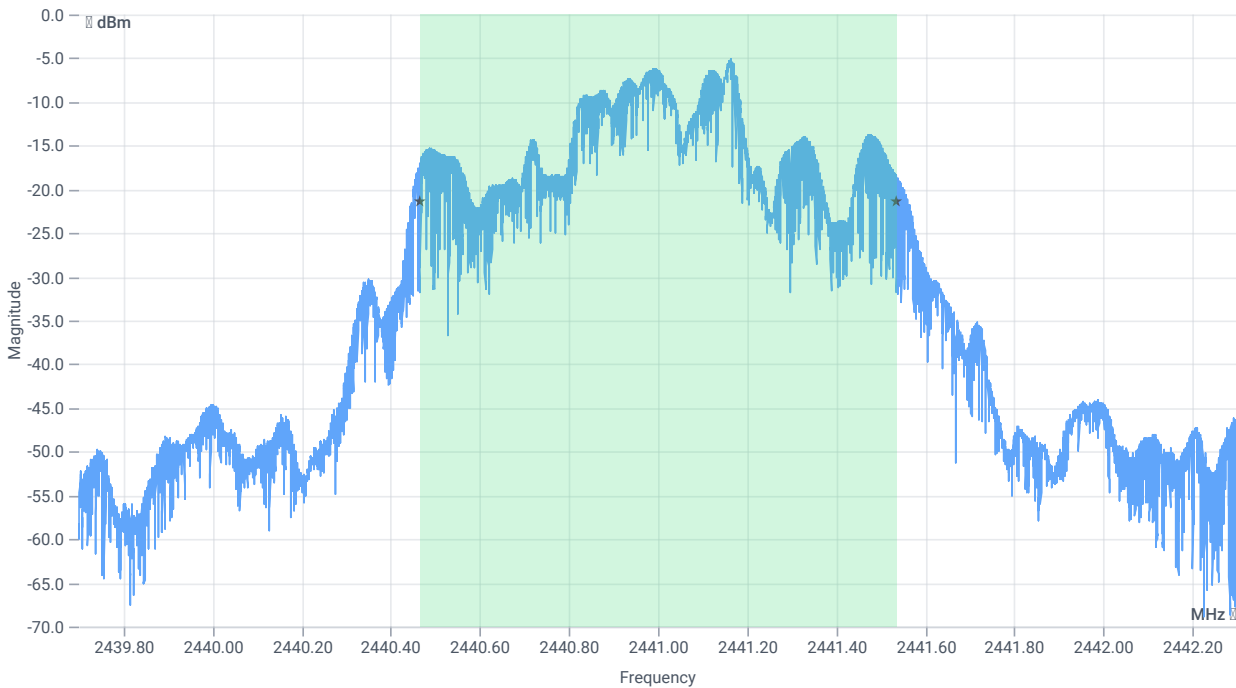
## Test at TX 2441 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.57	dBm	INFO
Ref. Frequency	--	--	2441.400	MHz	INFO

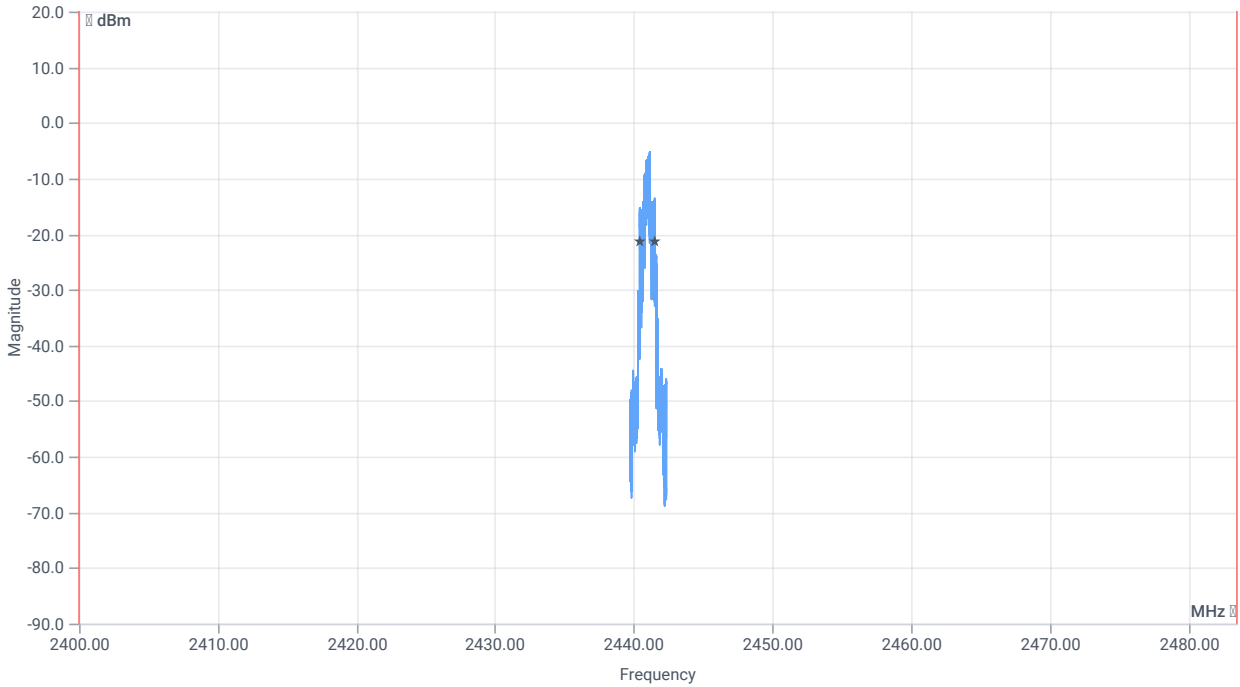
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	1.43   11.86   5
Start [MHz]   Stop [MHz]	2439.700   2442.300
RBW [MHz]   VBW [MHz]	0.030000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	50   200   10001   SWE



BW 99PCT

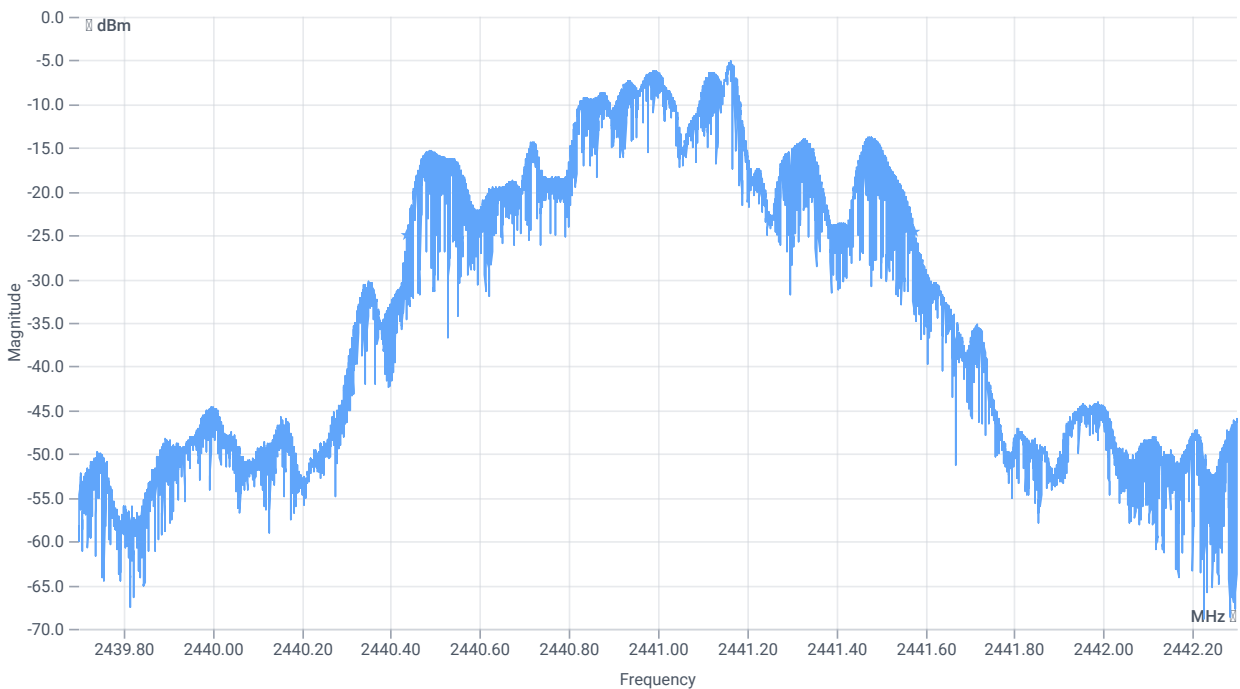




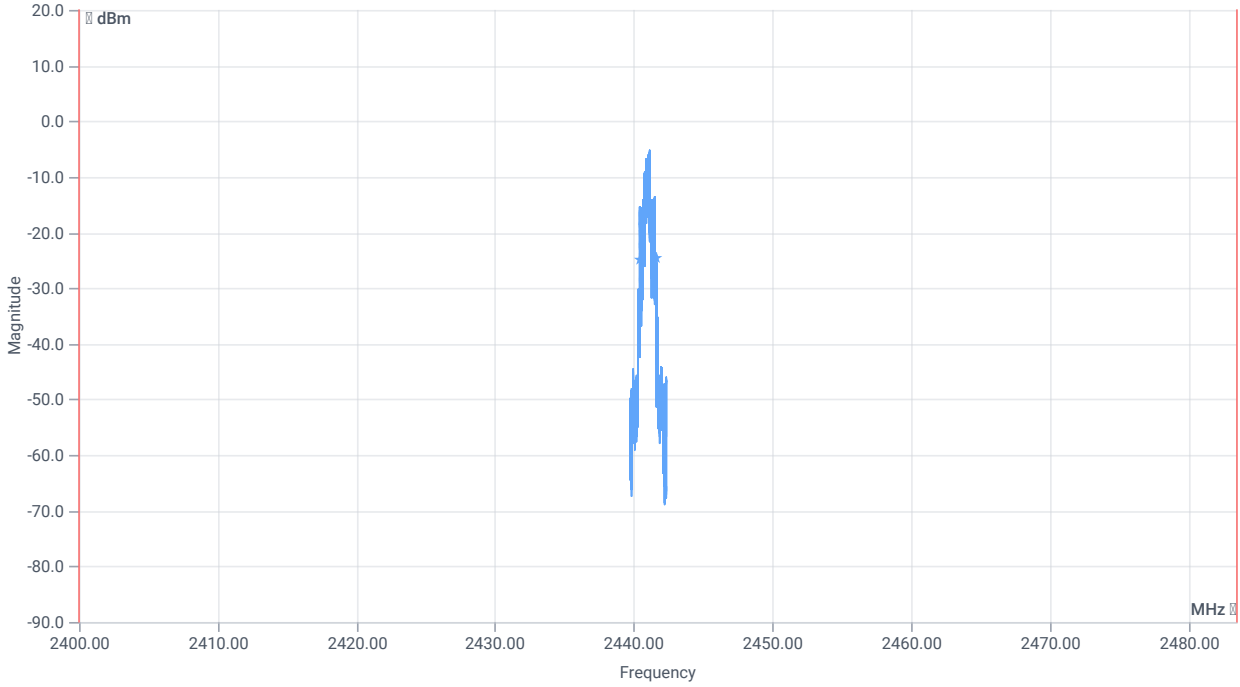
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1070.000	kHz	INFO
T1 99%	2400.000000	--	2440.4663	MHz	PASS
T2 99%	--	2483.500000	2441.5361	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1139	kHz	INFO
T1 20dB	2400.000000	--	2440.4366	MHz	PASS
T2 20dB	--	2483.500000	2441.5751	MHz	PASS

Verdict

PASS

# FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic EDR Pi/4DQPSK

## References

TC start	10.08.2023 14:38:53
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic EDR Pi/4DQPSK
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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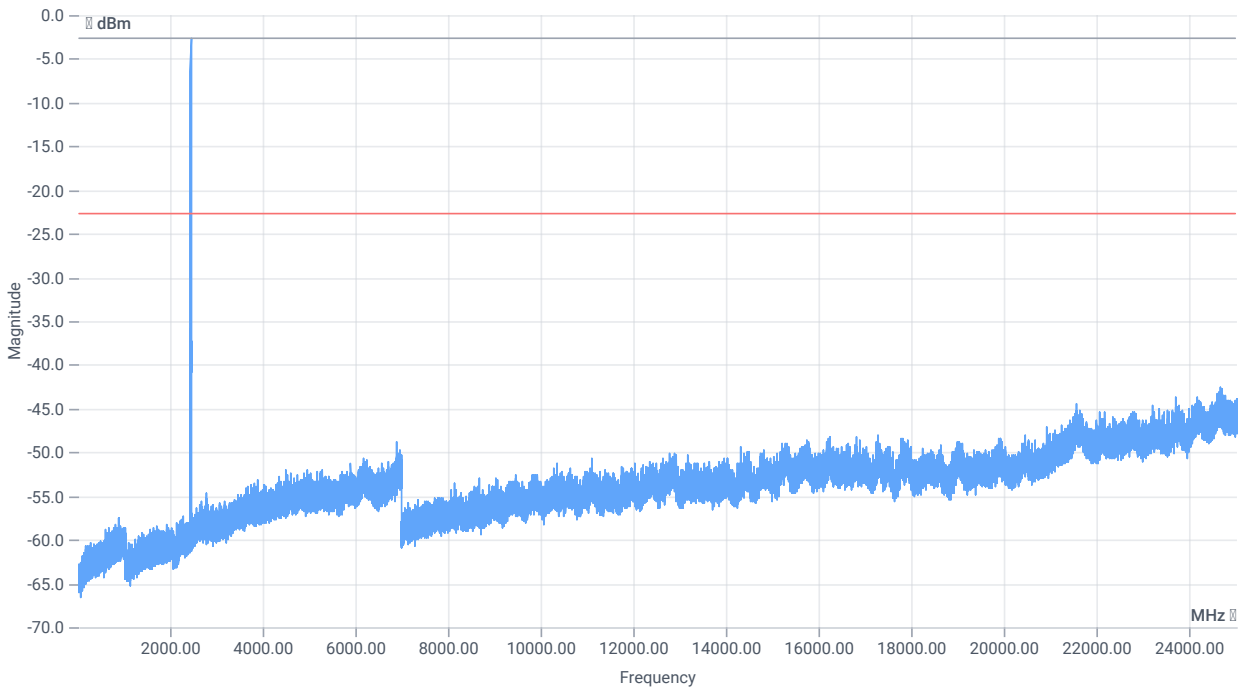
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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### Test at TX 2441 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.85	dBm	INFO
Ref. Frequency	--	--	2441.400	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	-3.85   0   15
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   2001   SWE



TX emissions band zoomed

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2441.00 MHz	--	--	-2.63	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 24671.5 MHz	0	--	19.95	dB	INFO

Verdict

PASS

# FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic EDR Pi/4DQPSK

## References

TC start	10.08.2023 14:48:39
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic EDR Pi/4DQPSK
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

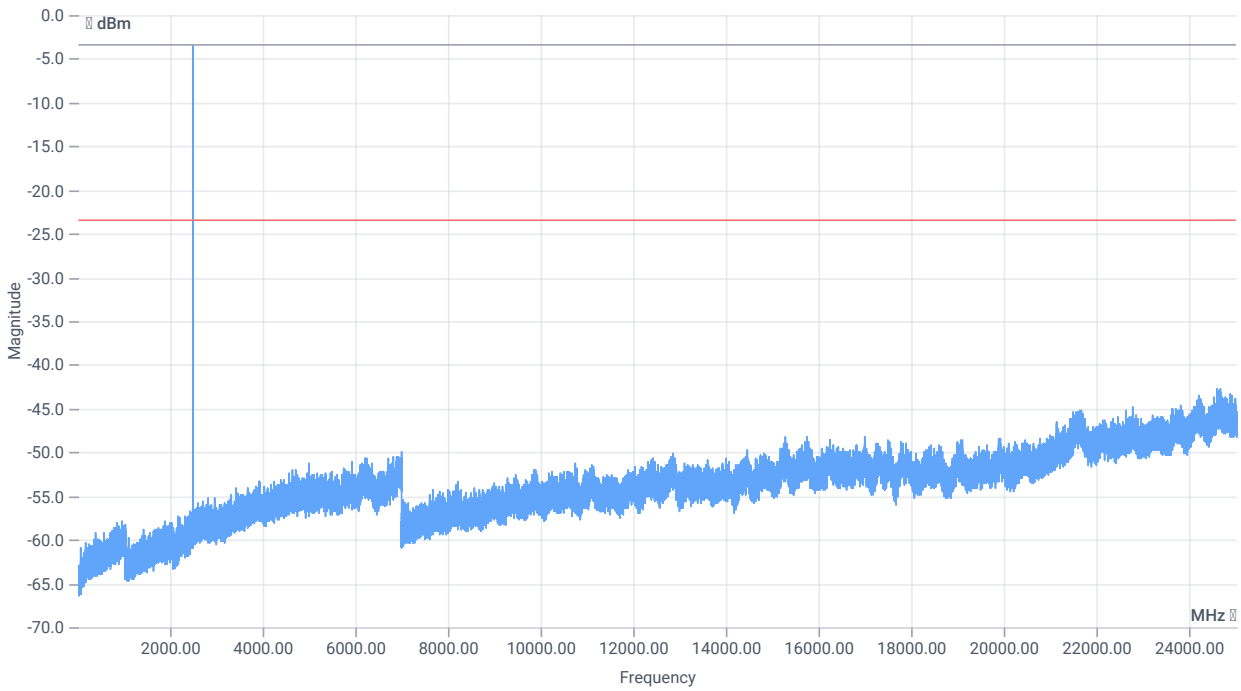
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## Test at TX 2480 MHz

RESULT: Reference Power cond.

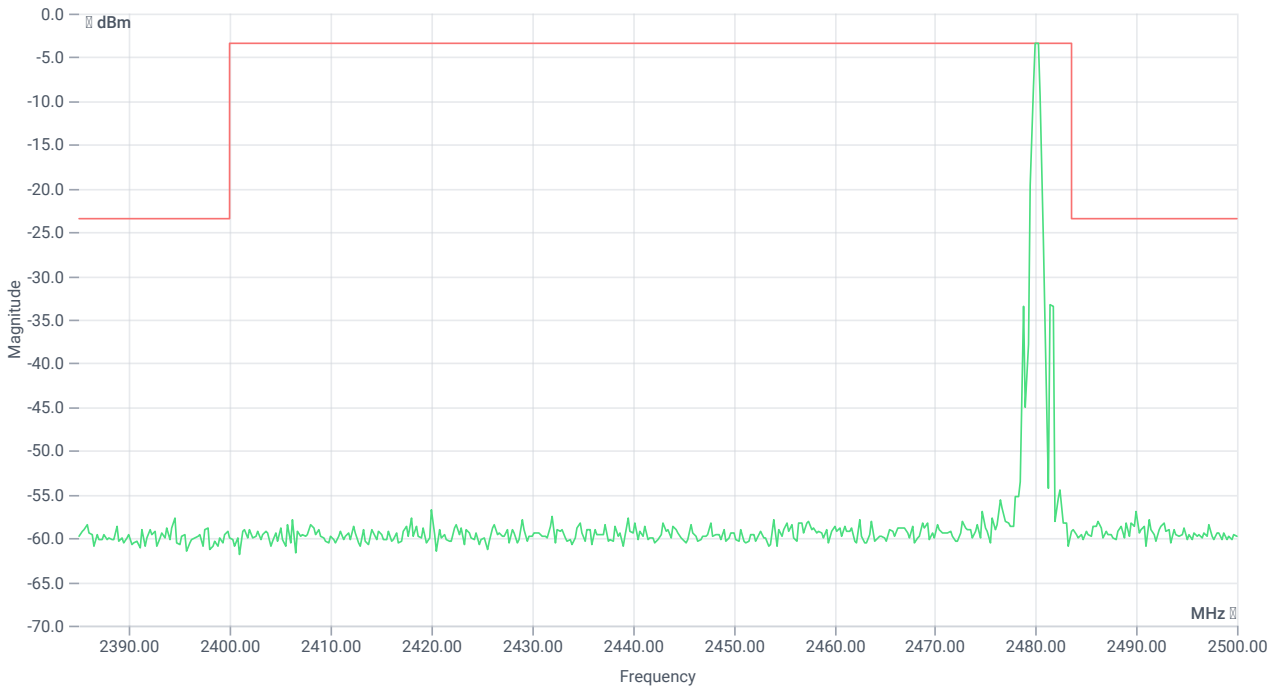
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-4.13	dBm	INFO
Ref. Frequency	--	--	2480.400	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	-4.13   0   15
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   2001   SWE



TX emissions band zoomed

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2480.25 MHz	--	--	-3.38	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 24592.5 MHz	0	--	19.34	dB	INFO

Verdict

PASS

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic EDR Pi/4DQPSK

## References

TC start	10.08.2023 14:47:58
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247, ISED RSS247   NI
Method	
Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR Pi/4DQPSK
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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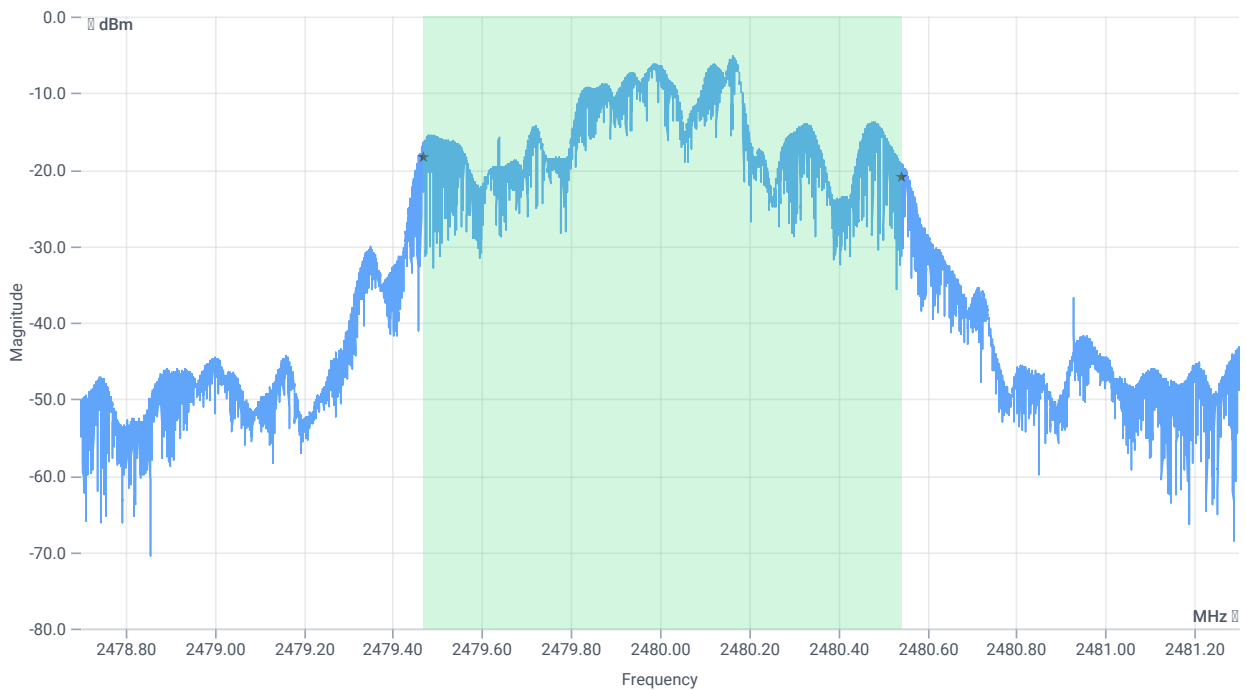
## Test at TX 2480 MHz

RESULT: Reference Power cond.

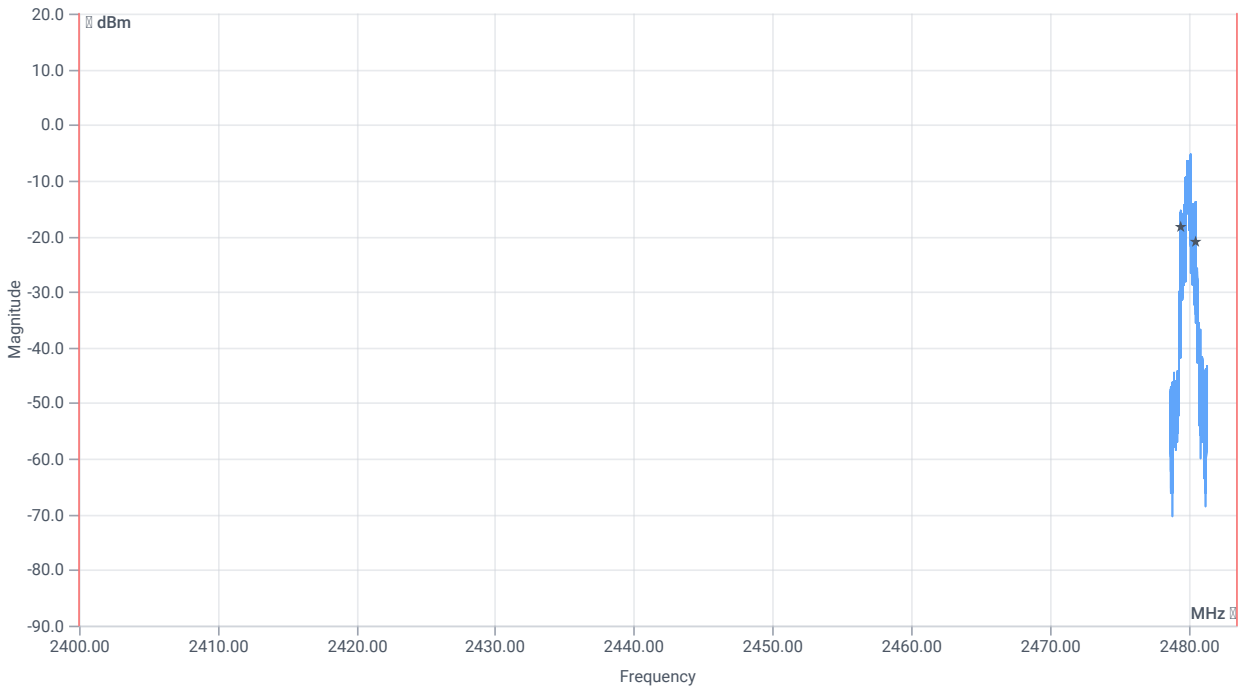
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.71	dBm	INFO
Ref. Frequency	--	--	2480.500	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	1.29   11.91   5
Start [MHz]   Stop [MHz]	2478.700   2481.300
RBW [MHz]   VBW [MHz]	0.030000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	50   200   10001   SWE



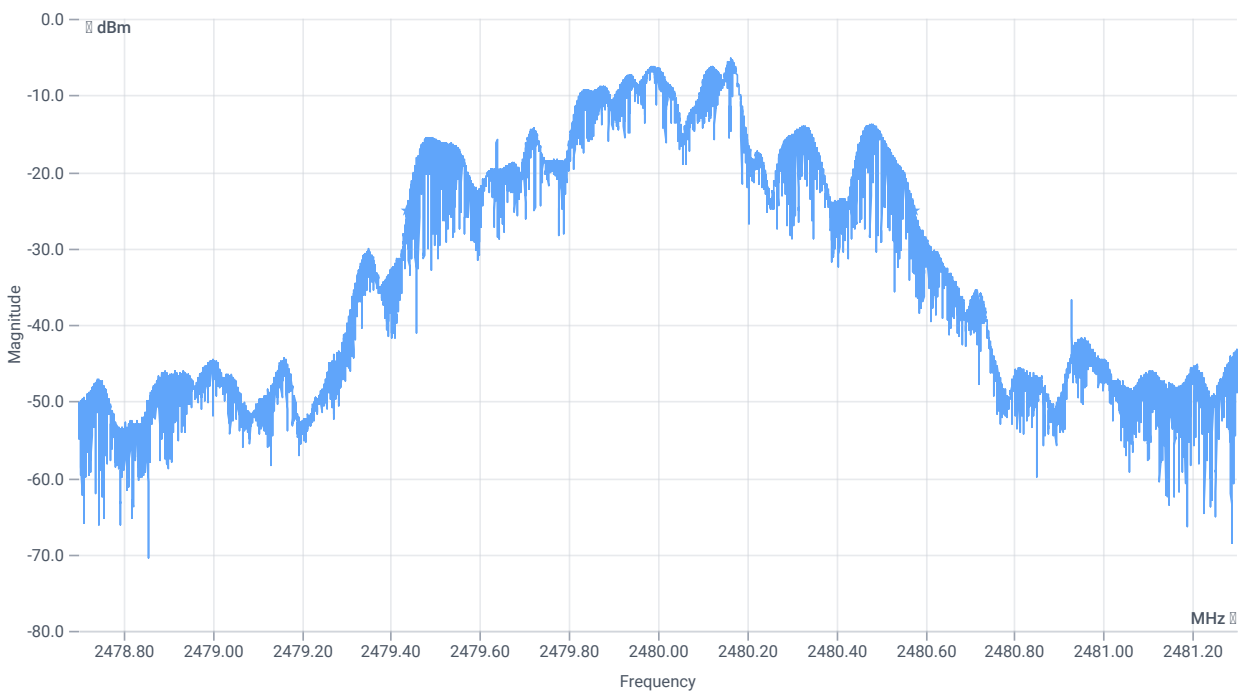
BW 99PCT



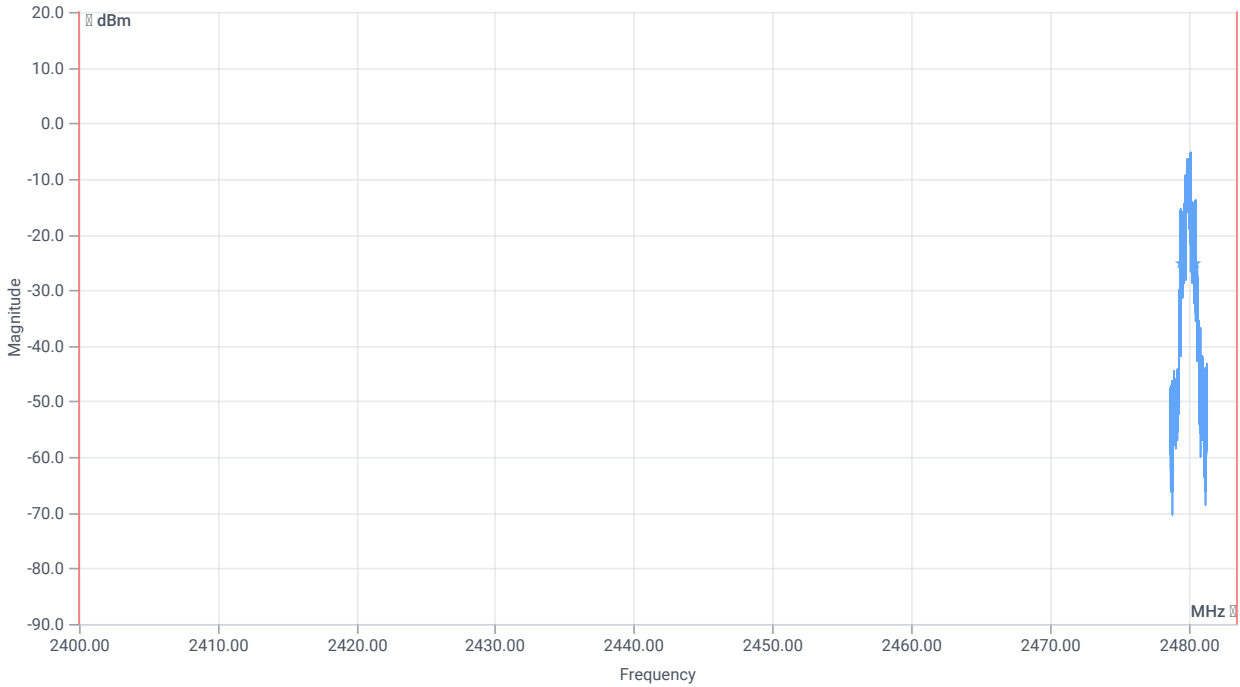
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1075.000	kHz	INFO
T1 99%	2400.000000	--	2479.4681	MHz	PASS
T2 99%	--	2483.500000	2480.5431	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1142	kHz	INFO
T1 20dB	2400.000000	--	2479.4353	MHz	PASS
T2 20dB	--	2483.500000	2480.5775	MHz	PASS

Verdict

PASS

## FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic EDR Pi/4DQPSK

### References

TC start	10.08.2023 14:47:08
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	
Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR Pi/4DQPSK
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment



## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

---

Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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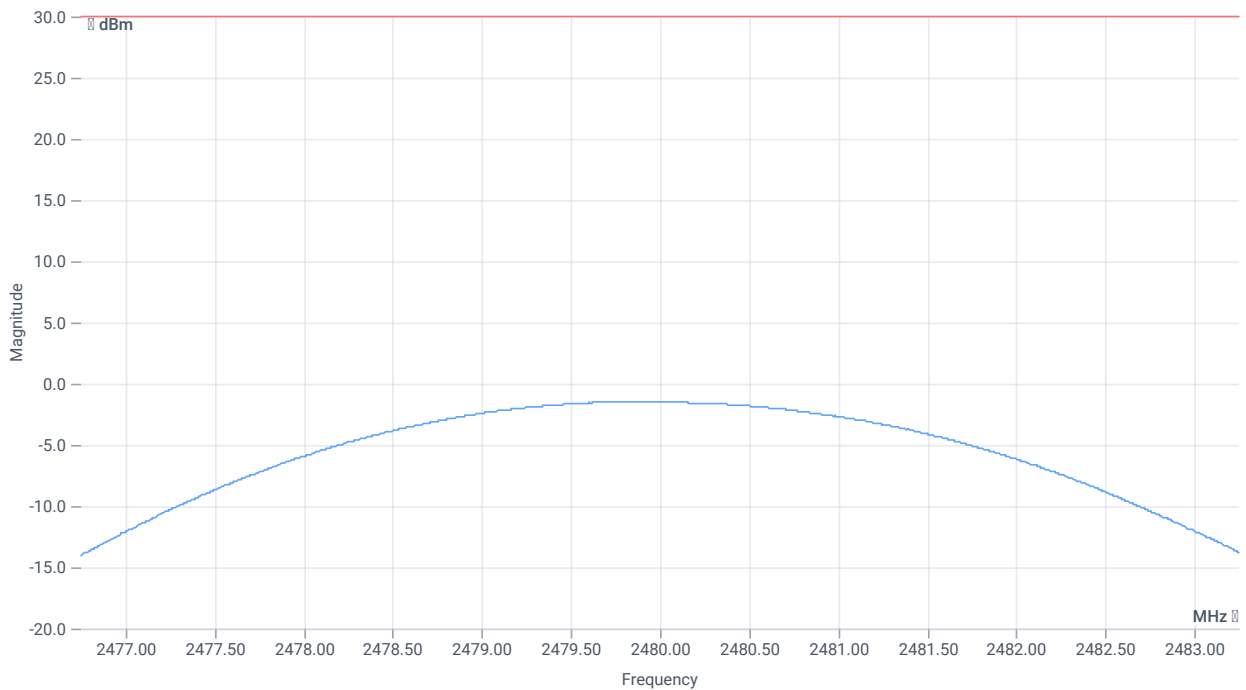
## Test at TX 2480 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.64	dBm	INFO
Ref. Frequency	--	--	2480.600	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	6.36   11.91   10
Start [MHz]   Stop [MHz]	2476.750   2483.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1000   10   1001   SWE



Peak output power

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak Power	--	30.00	-1.48	dBm	PASS
Peak Power	--	1000	0.711214	mW	PASS
Frequency at Peak	--	--	2479.831	MHz	INFO

Verdict

PASS

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic EDR 8DPSK

## References

TC start	10.08.2023 14:57:14
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247, ISED RSS247   NI
Method	
Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR 8DPSK
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic EDR 8DPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

## Equipment

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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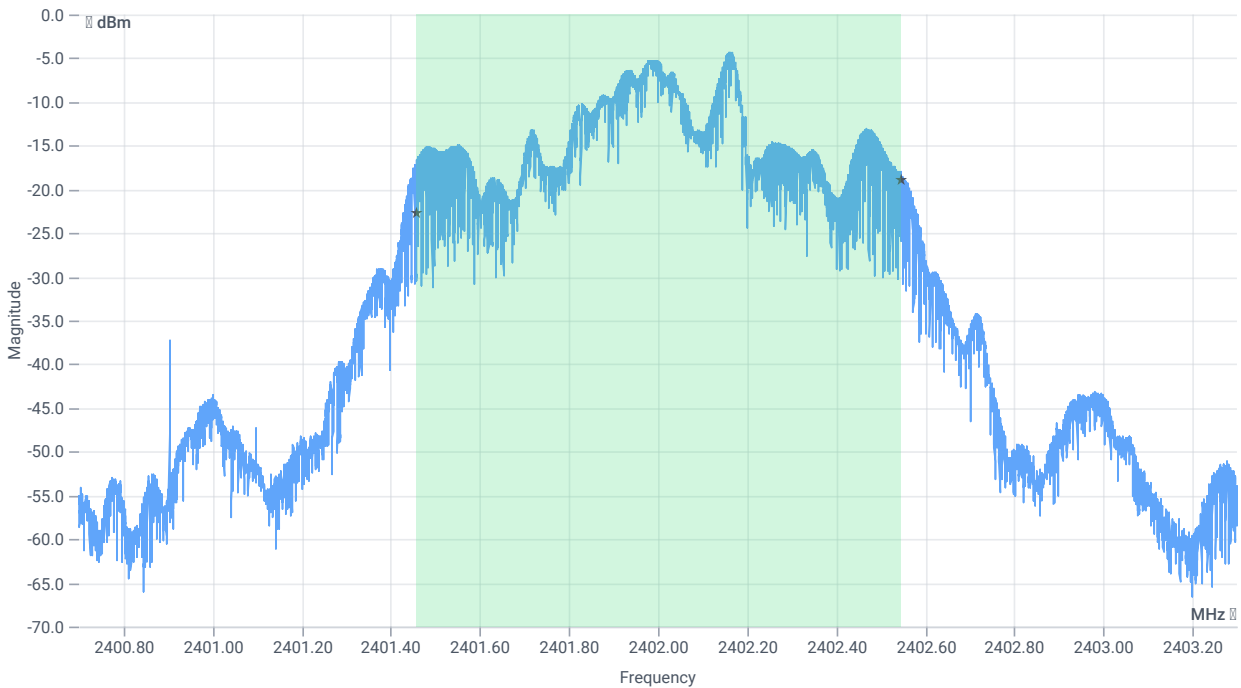
## Test at TX 2402 MHz

RESULT: Reference Power cond.

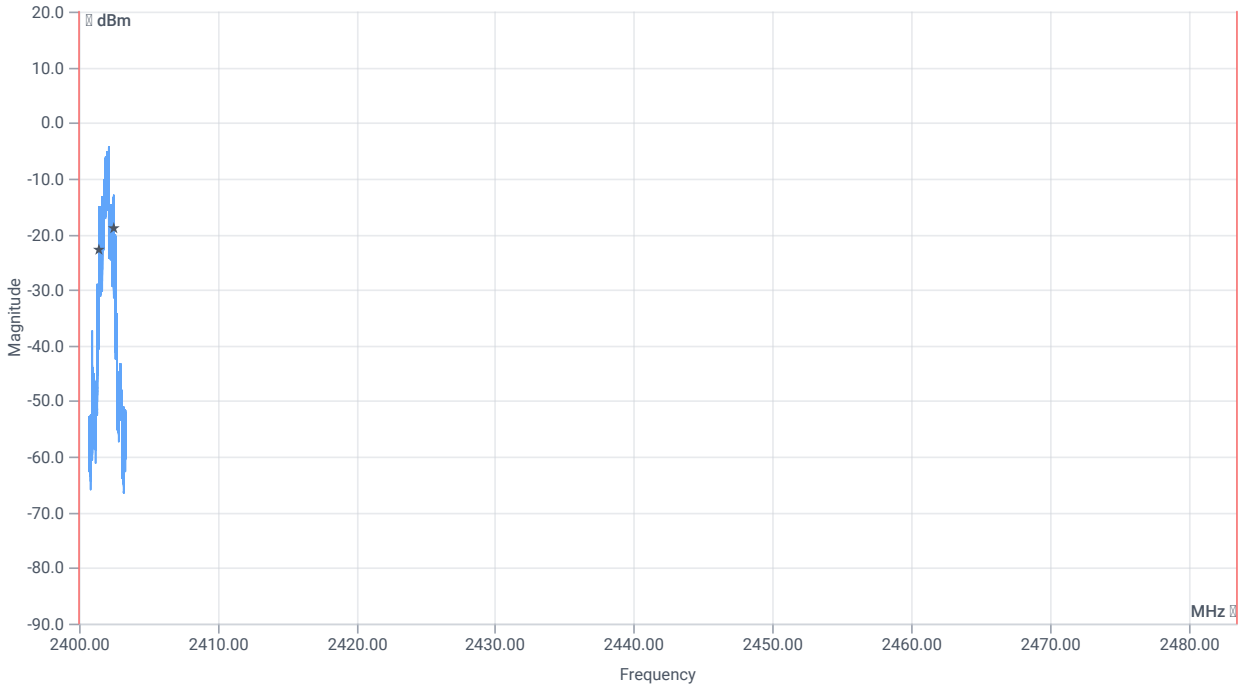
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-2.94	dBm	INFO
Ref. Frequency	--	--	2402.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	2.06   11.79   10
Start [MHz]   Stop [MHz]	2400.700   2403.300
RBW [MHz]   VBW [MHz]	0.030000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	50   200   10001   SWE



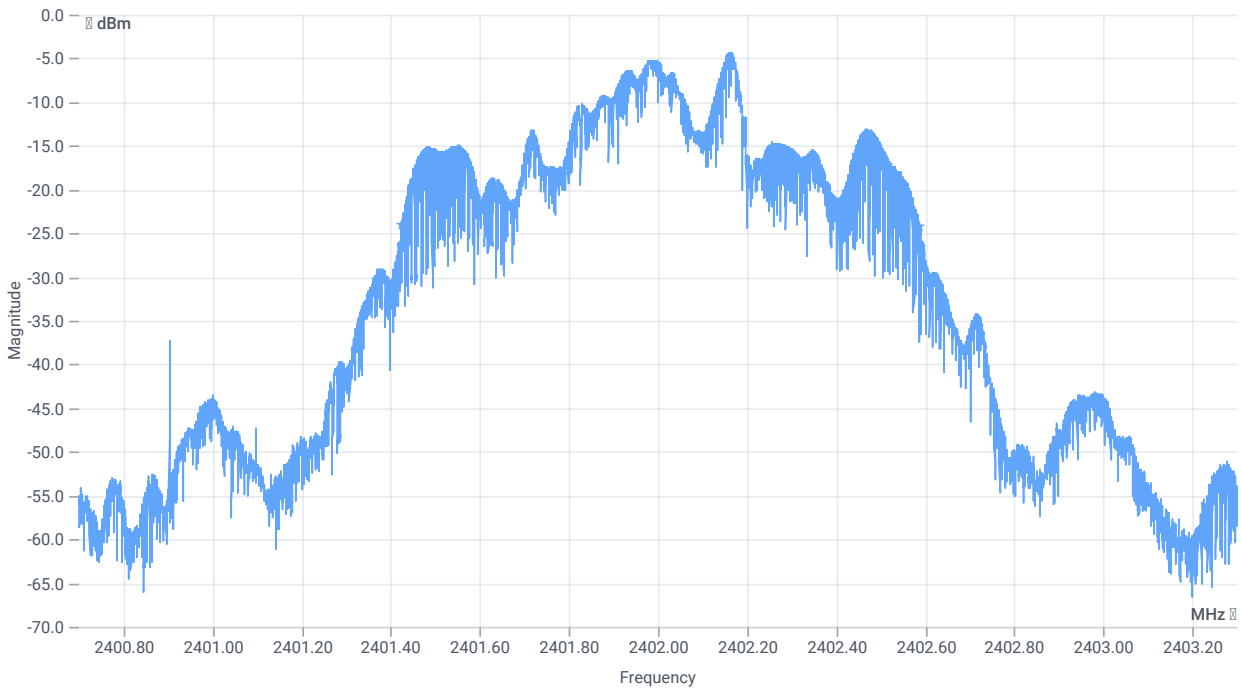
BW 99PCT



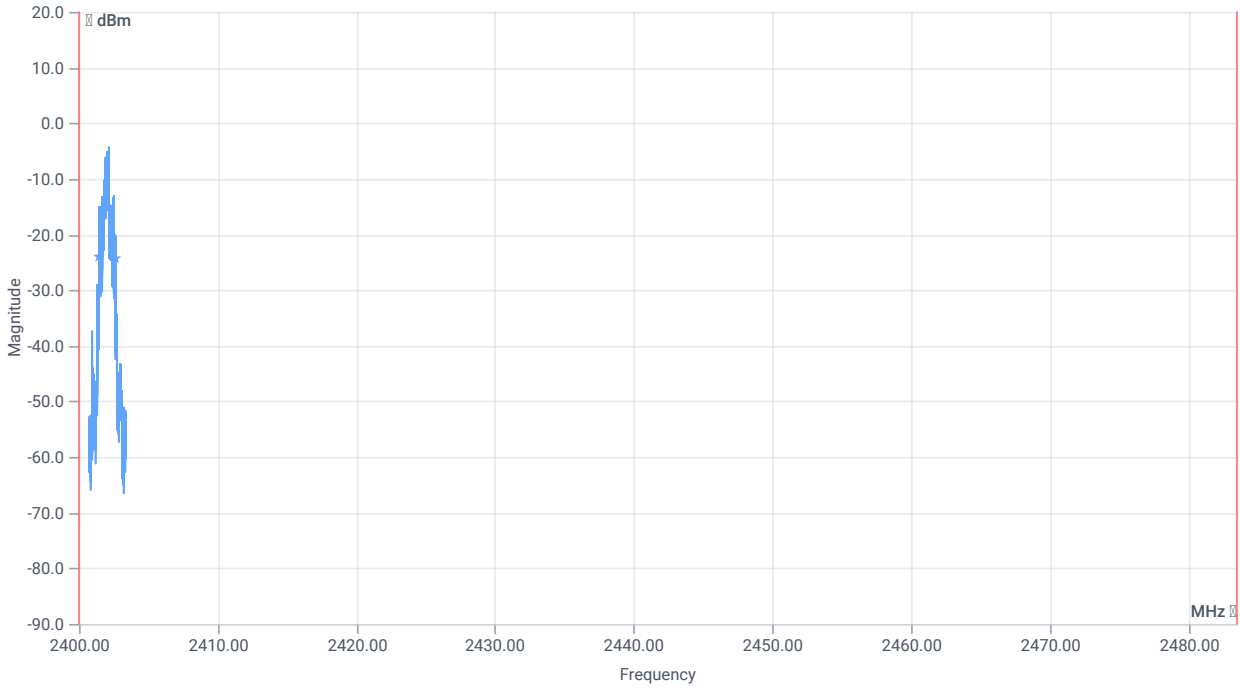
BW within Band 99PCT

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1089.000	kHz	INFO
T1 99%	2400.000000	--	2401.4585	MHz	PASS
T2 99%	--	2483.500000	2402.5470	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1163	kHz	INFO
T1 20DB	2400.000000	--	2401.4249	MHz	PASS
T2 20dB	--	2483.500000	2402.5881	MHz	PASS

Verdict

PASS



# FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic EDR 8DPSK

## References

TC start	10.08.2023 14:56:42
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	
Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR 8DPSK
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic EDR 8DPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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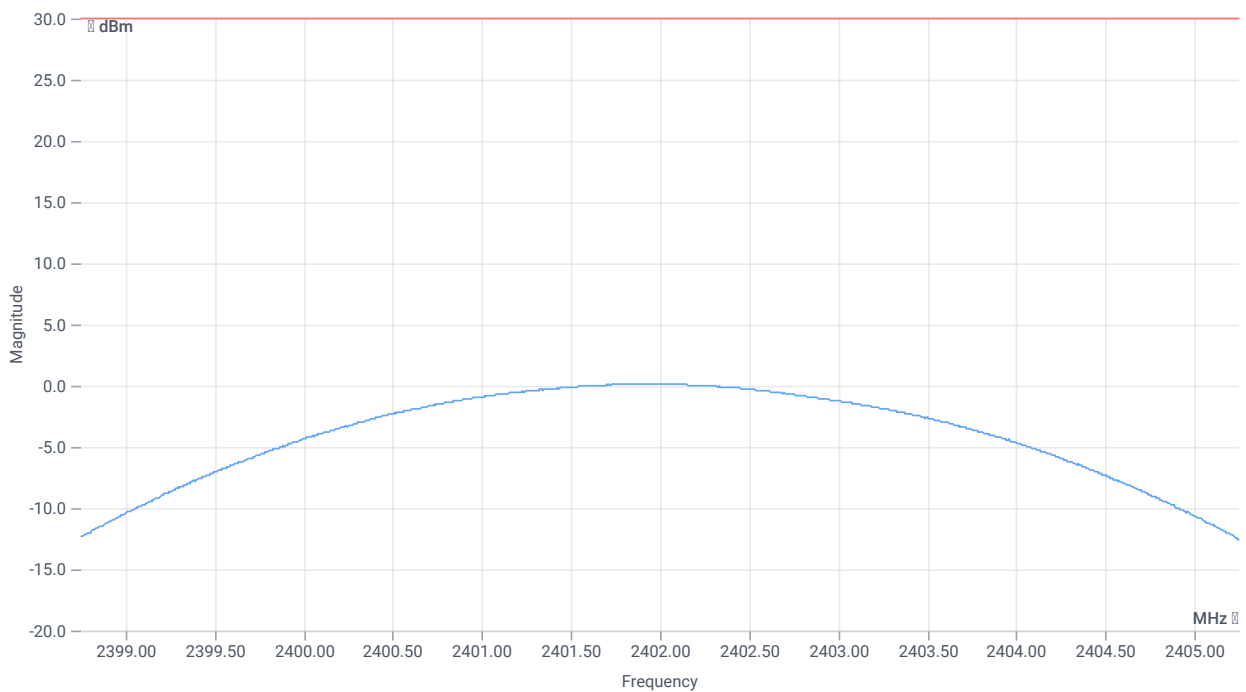
## Test at TX 2402 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-2.92	dBm	INFO
Ref. Frequency	--	--	2402.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	7.08   11.79   15
Start [MHz]   Stop [MHz]	2398.750   2405.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1000   10   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak Power	--	30.00	0.15	dBm	PASS
Peak Power	--	1000	1.035142	mW	PASS
Frequency at Peak	--	--	2401.916	MHz	INFO

Verdict

PASS

## FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic EDR 8DPSK

### References

TC start	10.08.2023 14:57:55
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic EDR 8DPSK
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic EDR 8DPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

## Equipment

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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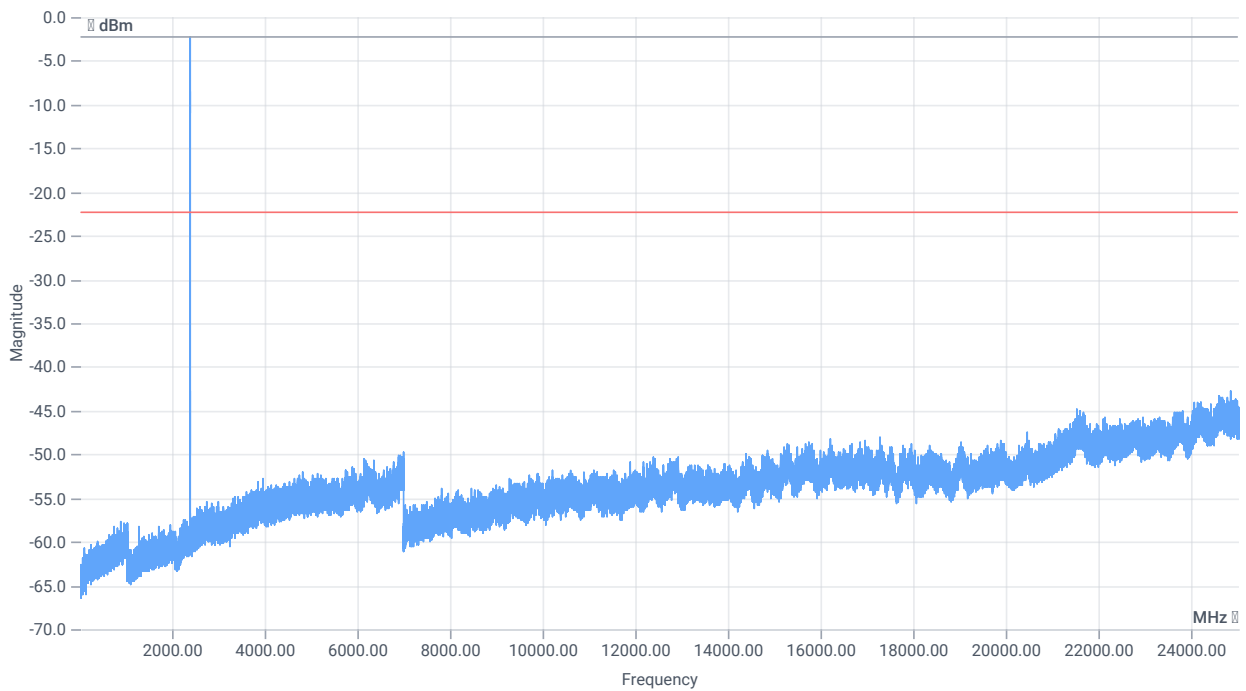
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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## Test at TX 2402 MHz

RESULT: Reference Power cond.

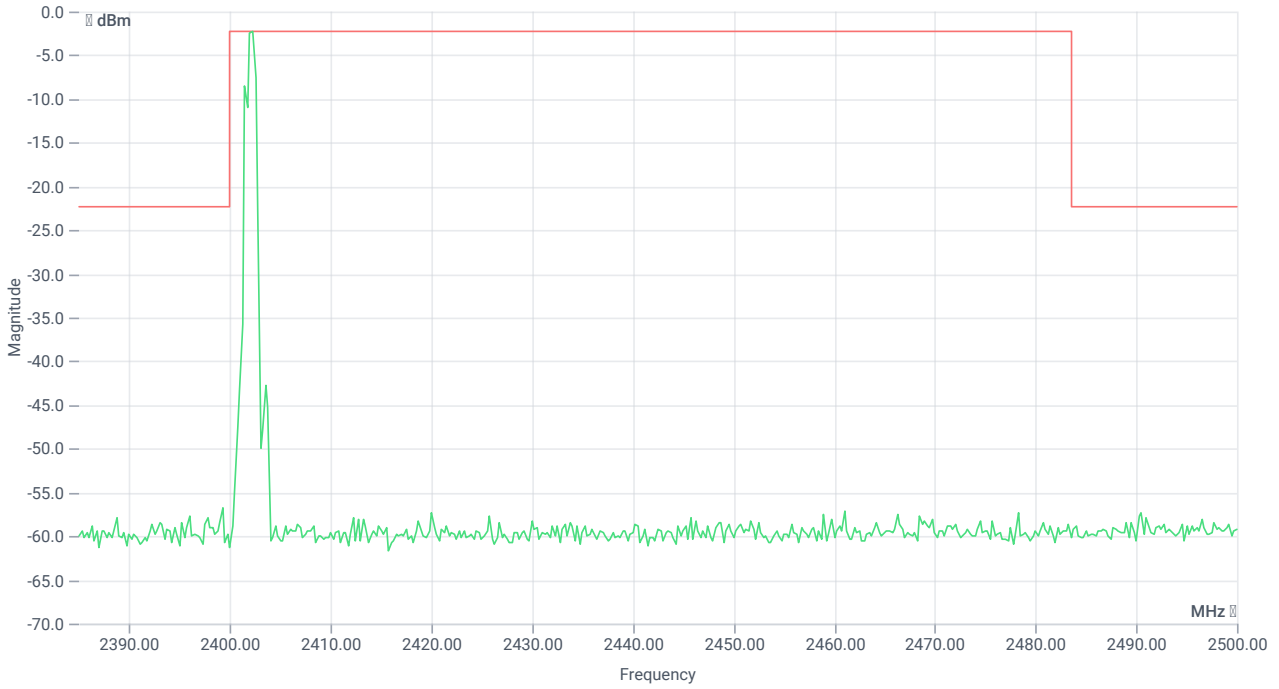
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-2.95	dBm	INFO
Ref. Frequency	--	--	2402.600	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	-2.95   0   15
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   2001   SWE



TX emissions band zoomed

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2402.25 MHz	--	--	-2.32	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 30 MHz	0	--	-136.18	dB	INFO

Verdict

PASS



## FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic EDR 8DPSK

### References

TC start	10.08.2023 15:05:32
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	
Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR 8DPSK
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic EDR 8DPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

## Equipment

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Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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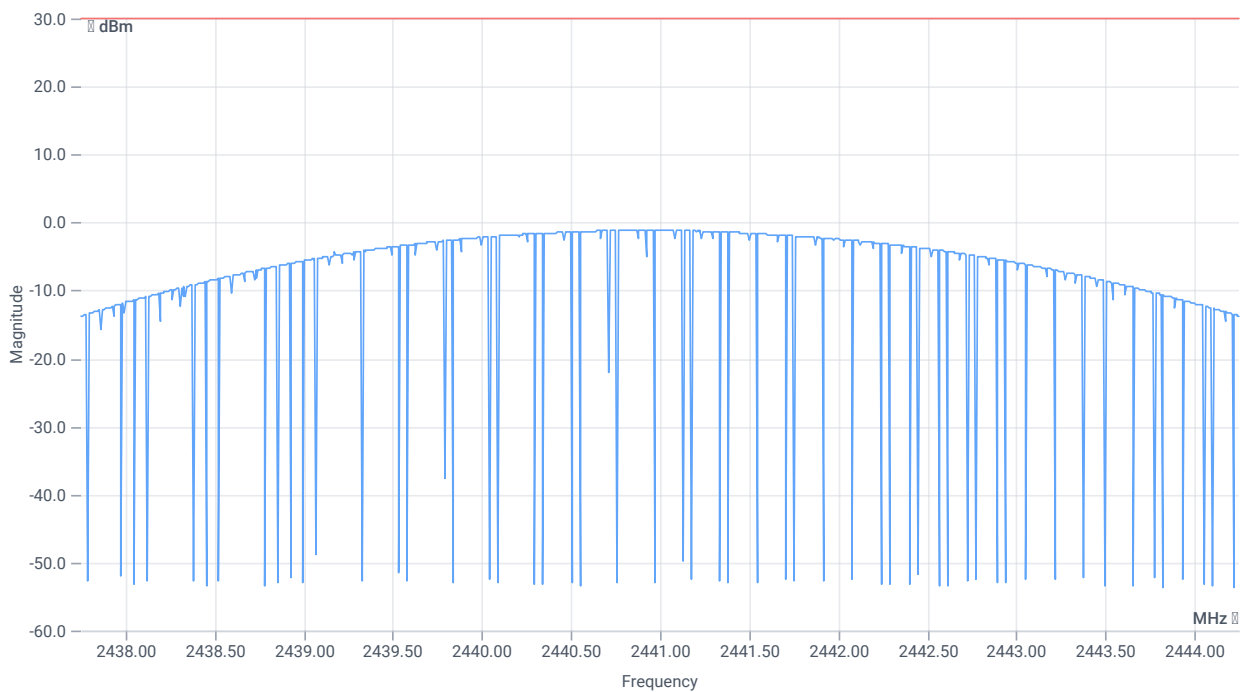
## Test at TX 2441 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-4.15	dBm	INFO
Ref. Frequency	--	--	2441.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	5.85   11.86   10
Start [MHz]   Stop [MHz]	2437.750   2444.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1000   10   1001   SWE



Peak output power

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak Power	--	30.00	-1.14	dBm	PASS
Peak Power	--	1000	0.76913	mW	PASS
Frequency at Peak	--	--	2440.903	MHz	INFO

Verdict

PASS

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic EDR 8DPSK

## References

TC start	10.08.2023 15:06:07
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247, ISED RSS247   NI
Method	
Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR 8DPSK
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic EDR 8DPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

## Equipment

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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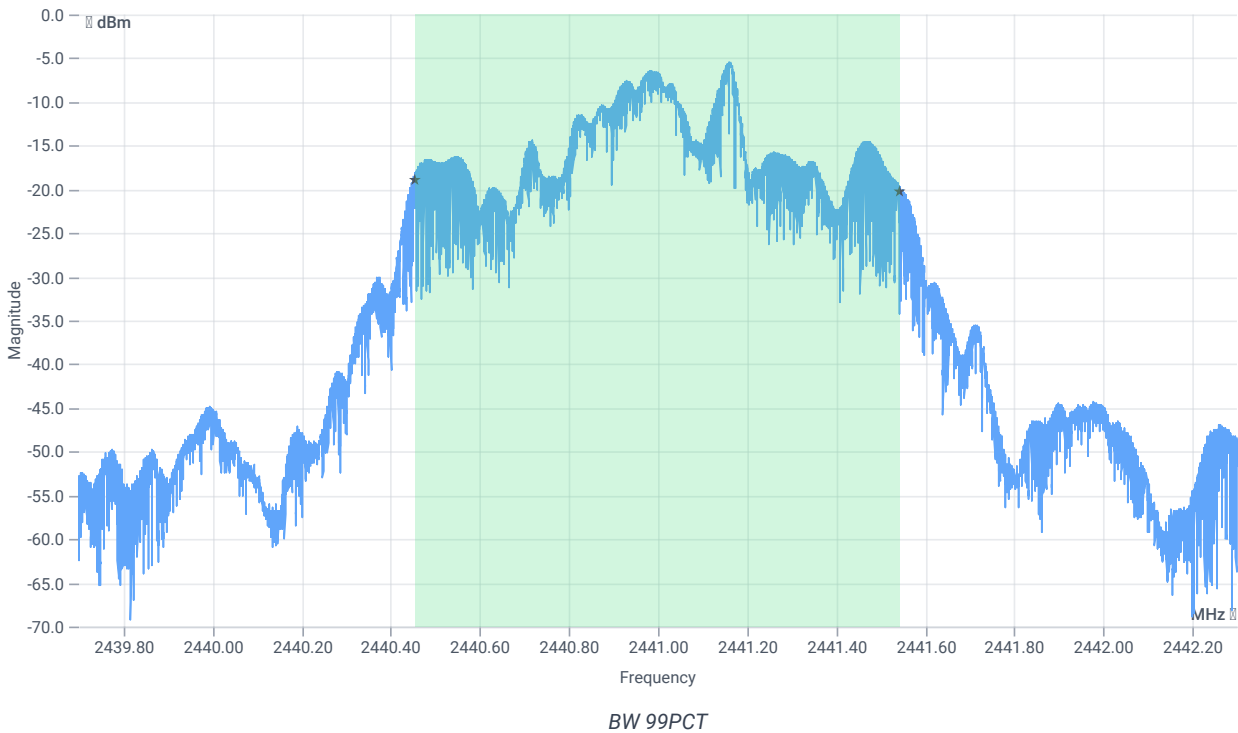
### Test at TX 2441 MHz

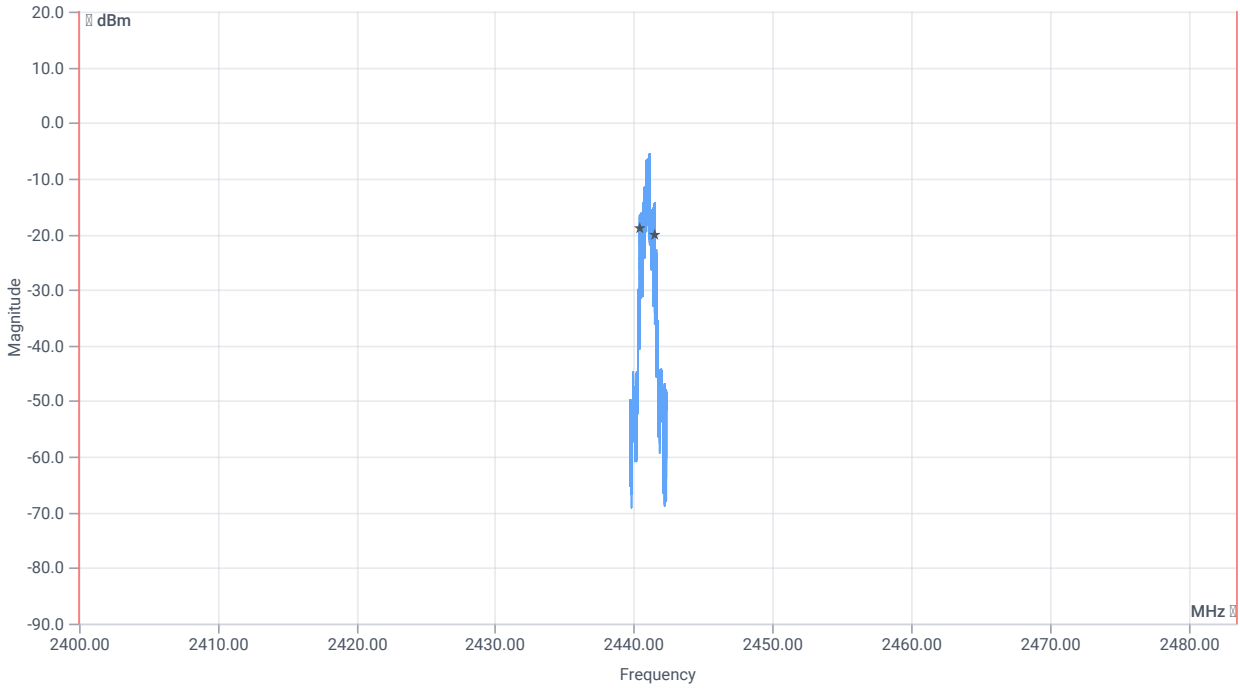
RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.93	dBm	INFO
Ref. Frequency	--	--	2441.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	1.07   11.86   5
Start [MHz]   Stop [MHz]	2439.700   2442.300
RBW [MHz]   VBW [MHz]	0.030000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	50   200   10001   SWE

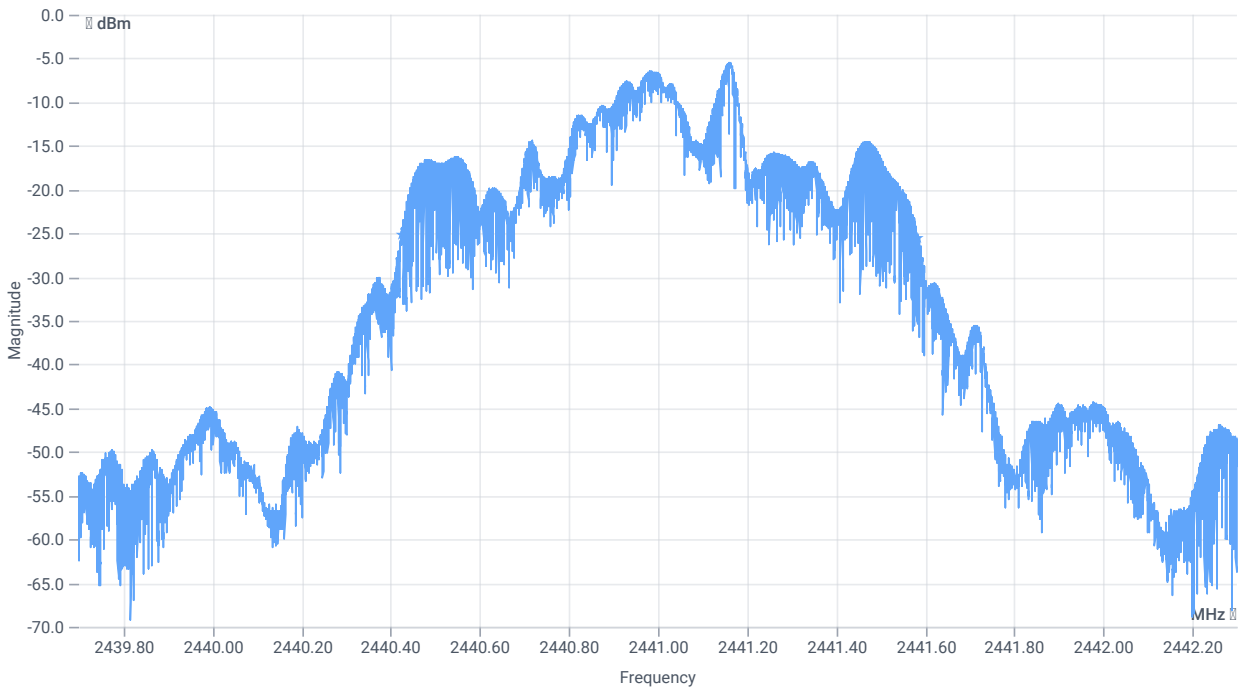




BW within Band 99PCT

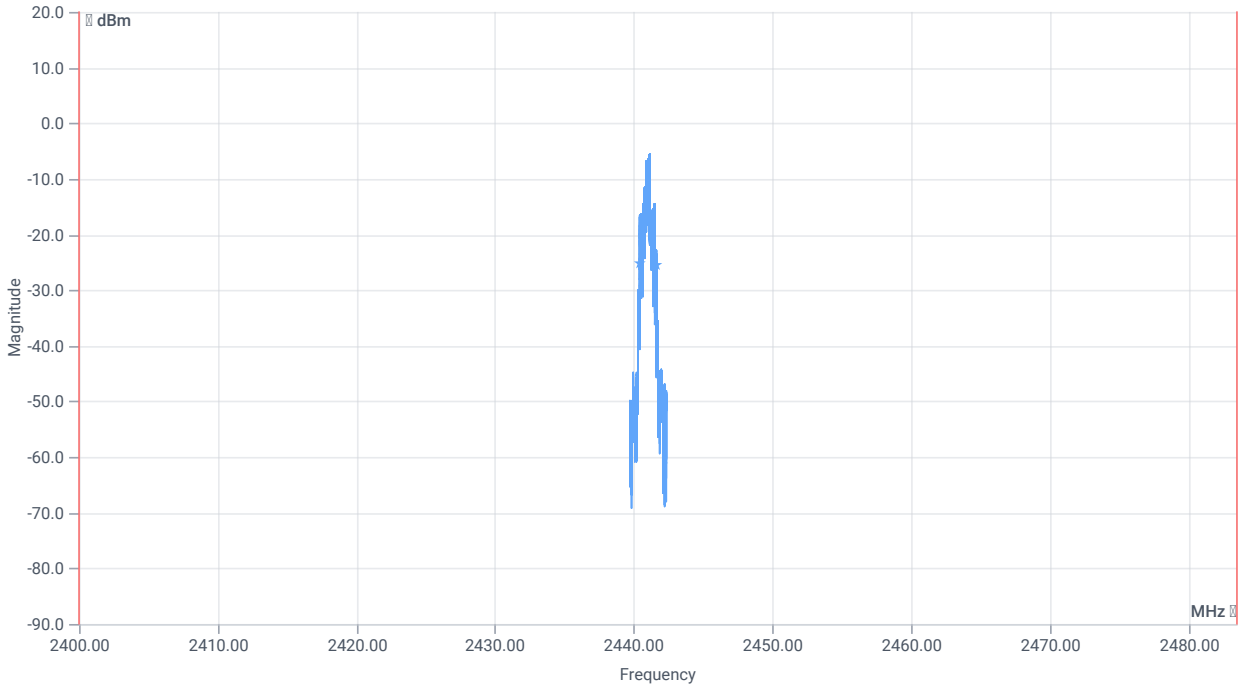
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1089.000	kHz	INFO
T1 99%	2400.000000	--	2440.4538	MHz	PASS
T2 99%	--	2483.500000	2441.5431	MHz	PASS





BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1160	kHz	INFO
T1 20dB	2400.000000	--	2440.4233	MHz	PASS
T2 20dB	--	2483.500000	2441.5832	MHz	PASS

Verdict

PASS

## FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic EDR 8DPSK

### References

TC start	10.08.2023 15:06:49
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic EDR 8DPSK
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic EDR 8DPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	False   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

## Equipment

---

Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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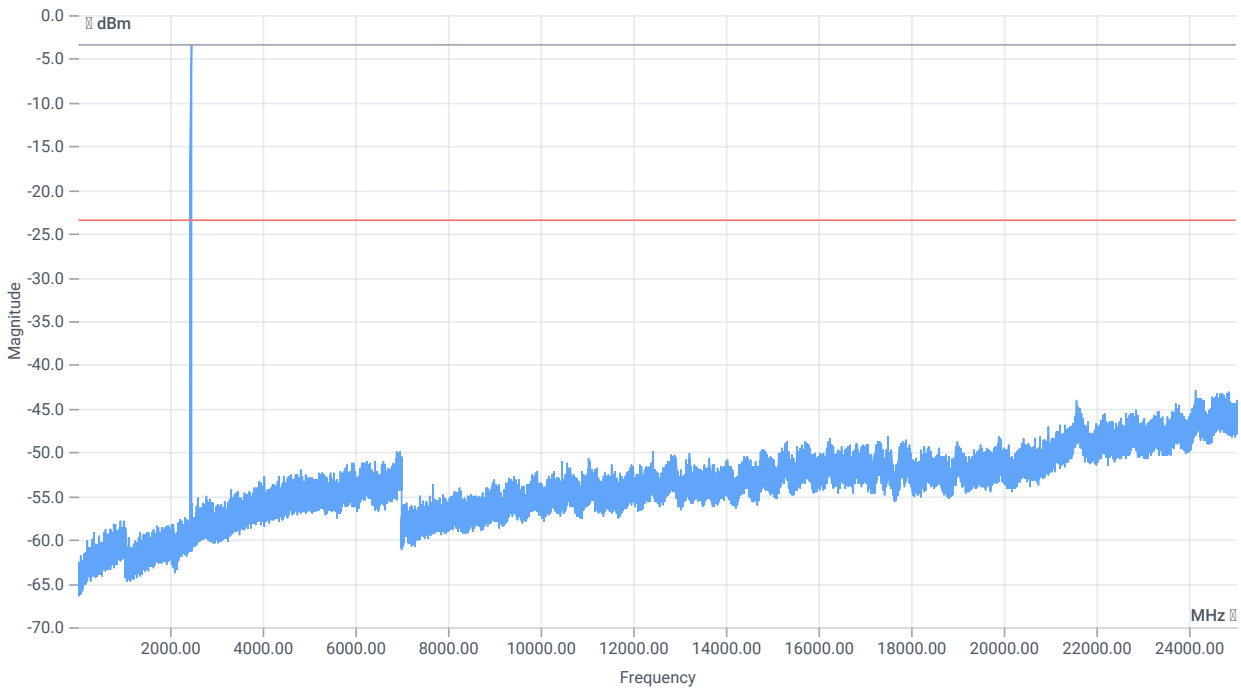
Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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### Test at TX 2441 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-3.07	dBm	INFO
Ref. Frequency	--	--	2441.500	MHz	INFO



### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	-3.07   0   15
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   2001   SWE



TX emissions band zoomed

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2441.00 MHz	--	--	-3.47	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 30 MHz	0	--	-135.37	dB	INFO

Verdict

PASS

# FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic EDR 8DPSK

## References

TC start	10.08.2023 15:14:20
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	
Description	FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR 8DPSK
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic EDR 8DPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

## Equipment

---

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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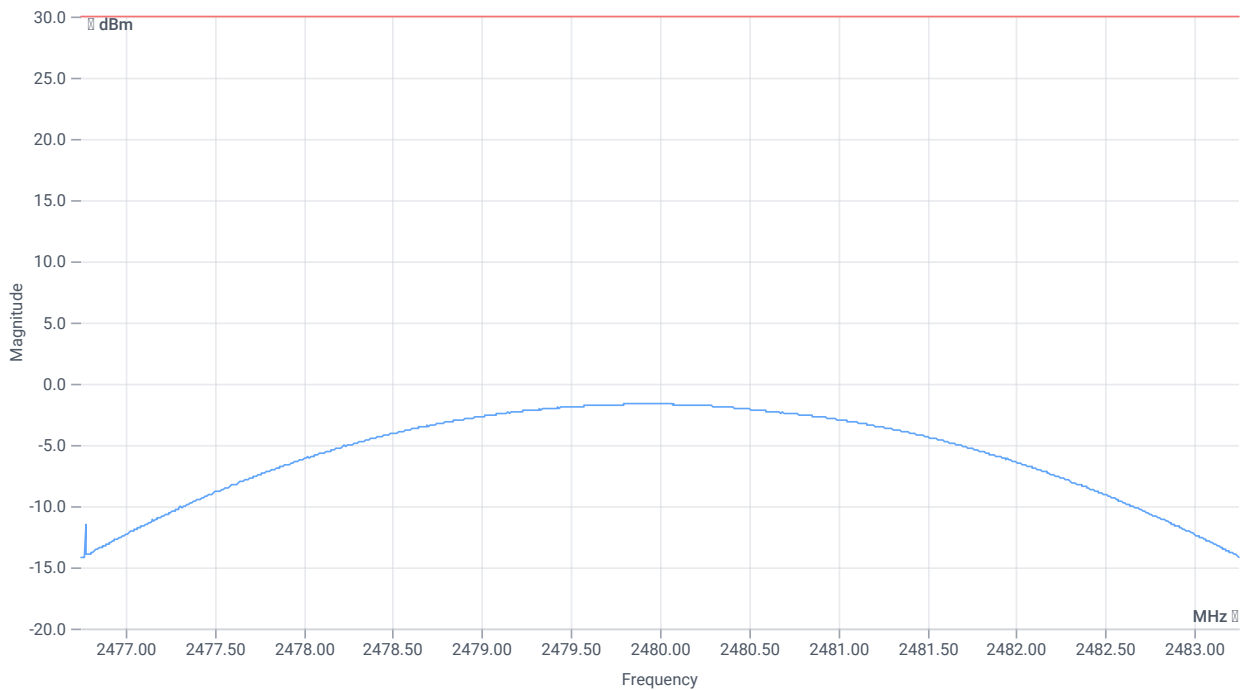
## Test at TX 2480 MHz

RESULT: Reference Power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-4.39	dBm	INFO
Ref. Frequency	--	--	2480.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	5.61   11.91   10
Start [MHz]   Stop [MHz]	2476.750   2483.250
RBW [MHz]   VBW [MHz]	3.000000   10.000000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	1000   10   1001   SWE



### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak Power	--	30.00	-1.65	dBm	PASS
Peak Power	--	1000	0.683912	mW	PASS
Frequency at Peak	--	--	2479.929	MHz	INFO



Verdict

PASS

# FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic EDR 8DPSK

## References

TC start	10.08.2023 15:14:52
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247, ISED RSS247   NI
Method	
Description	FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR 8DPSK
Information	

## EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

## Test Parameter

Technology to test	BT Classic EDR 8DPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

## Equipment

---

Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

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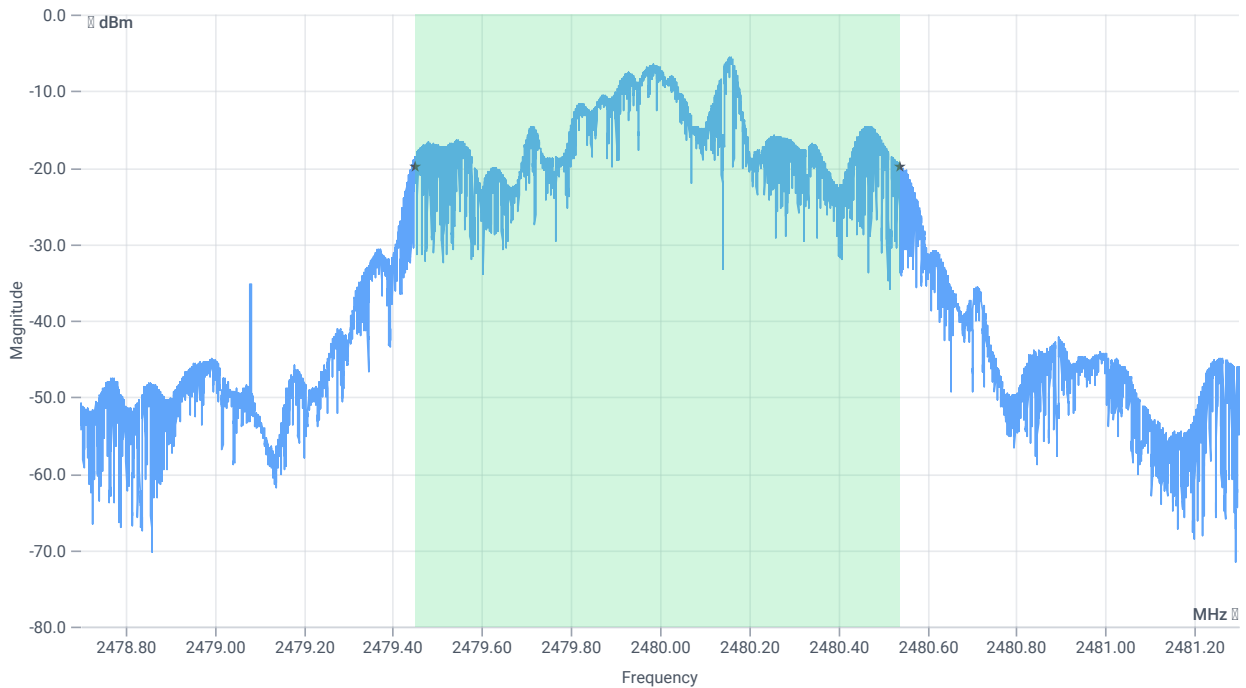
## Test at TX 2480 MHz

RESULT: Reference Power cond.

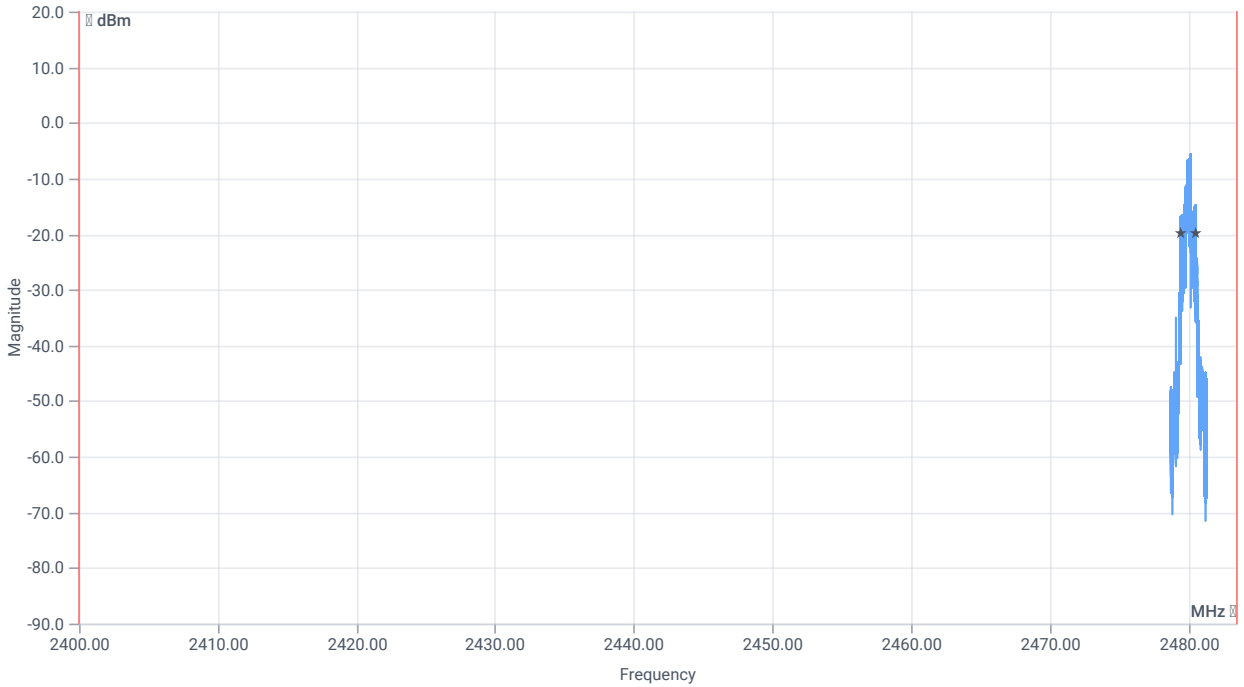
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-4.32	dBm	INFO
Ref. Frequency	--	--	2480.400	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	0.68   11.91   5
Start [MHz]   Stop [MHz]	2478.700   2481.300
RBW [MHz]   VBW [MHz]	0.030000   0.100000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	50   200   10001   SWE



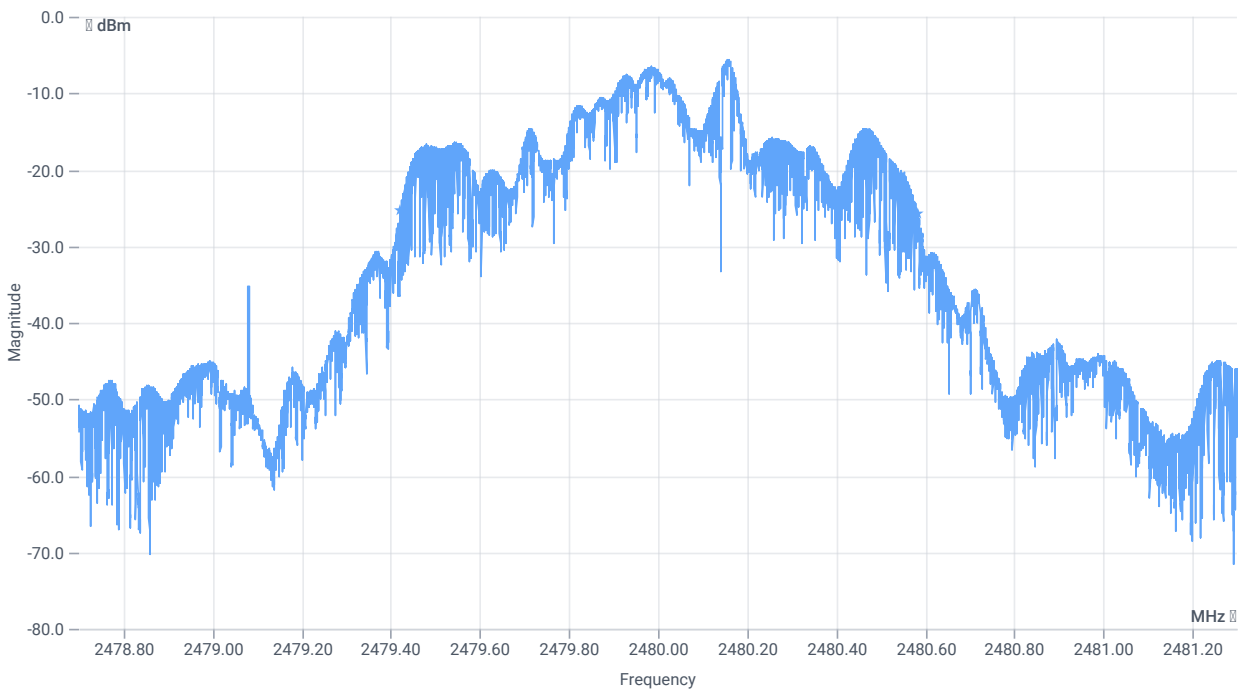
BW 99PCT



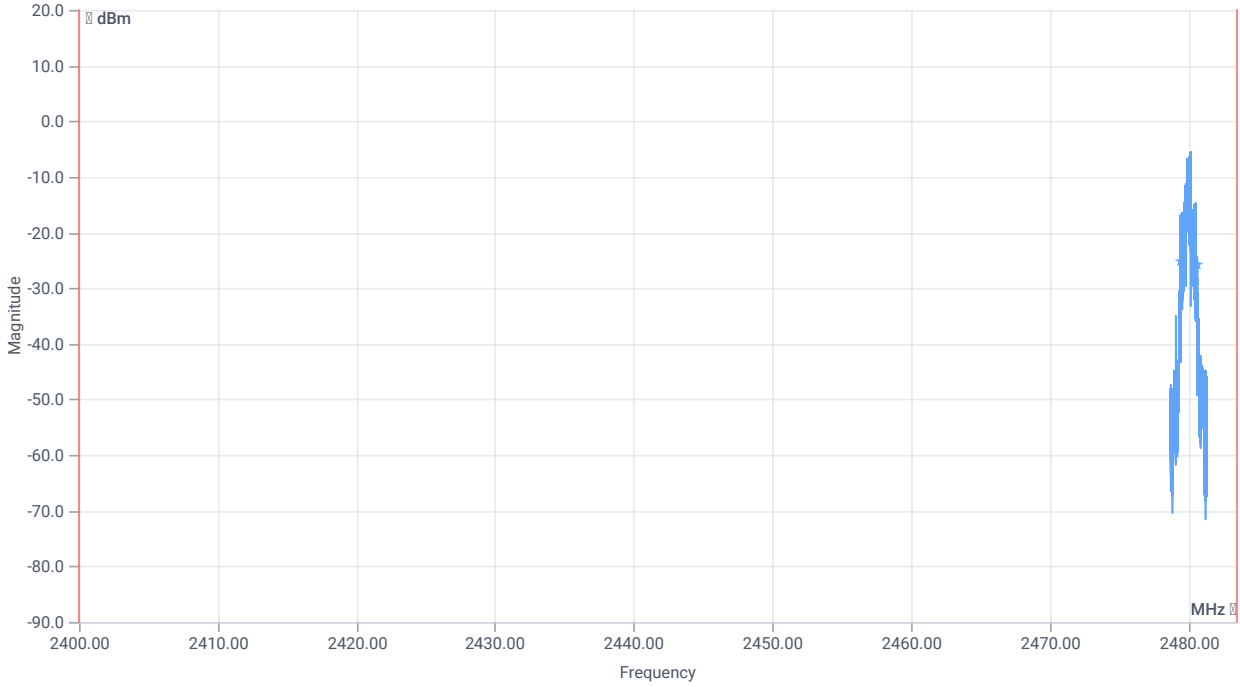
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1087.000	kHz	INFO
T1 99%	2400.000000	--	2479.4515	MHz	PASS
T2 99%	--	2483.500000	2480.5387	MHz	PASS



BW 20dB



BW within Band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1160	kHz	INFO
T1 20dB	2400.000000	--	2479.4215	MHz	PASS
T2 20dB	--	2483.500000	2480.5819	MHz	PASS

Verdict

PASS

## FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic EDR 8DPSK

### References

TC start	10.08.2023 15:15:42
Ambit temp [°C]   humidity [rel%]	0.0   0
System version	4.6.1.0
Standard   Version	FCC 15.247   NI
Method	IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable
Description	FCC 15.247 TX Emissions Conducted FHSS - BT Classic EDR 8DPSK
Information	

### EUT Common Settings BT Classic

Intermodulation Value N	3
Image Freq. Low   Mid   High [MHz]	0   0   0
Power Class	1
Power Control	No
Longest Supported Packet Type	DH5
RF Supported	Basic Rate True   EDR Pi/4DQPSK True   EDR 8DPSK True
Testmode	None
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	0123456789AB
Signaling BT Address	BABEBEDADBAD
Switch Matrix & Pathcompensation enabled	Yes

### Test Parameter

Technology to test	BT Classic EDR 8DPSK
Antenna port used	1
Temperature	nom
Voltage	nom
Frequency low to test	False   Freq [MHz] 2402
Frequency mid to test	False   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	1.2
Switched path	EUT - SignalingUnit - SpectrumAnalyzer

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60

## Equipment

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Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.62

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Switch matrix,CTCadvanced,RSM-1 NI DAQ,31534892,NI

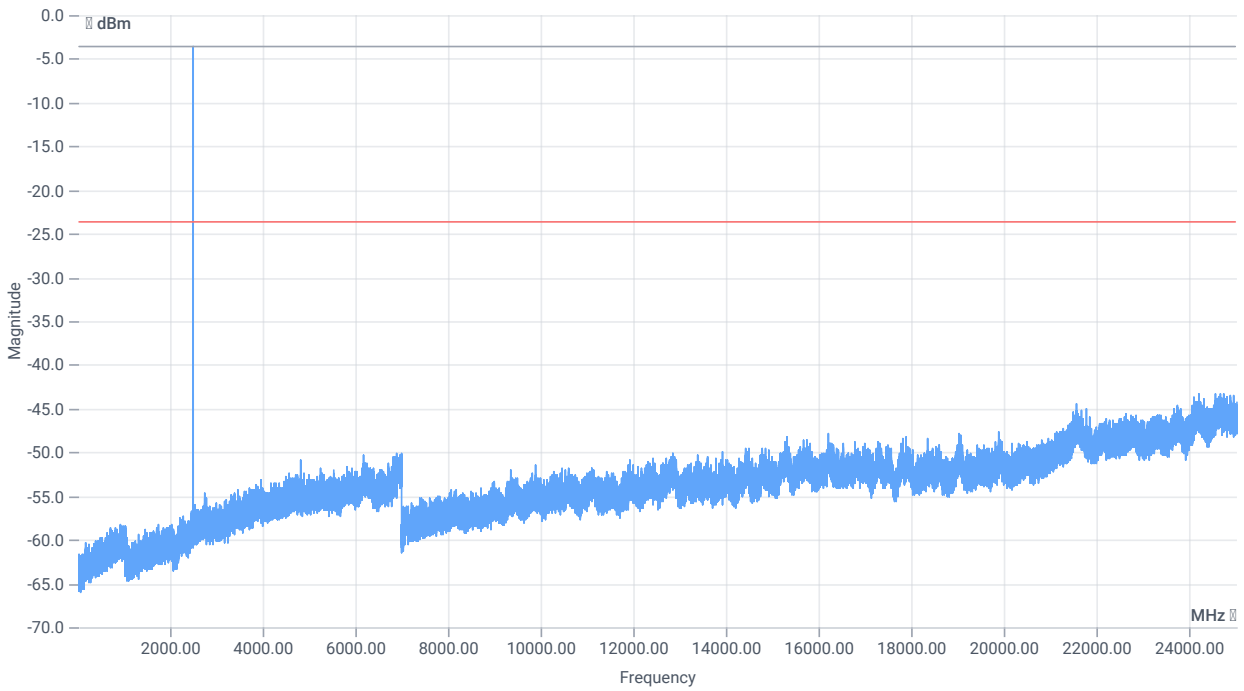
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## Test at TX 2480 MHz

RESULT: Reference Power cond.

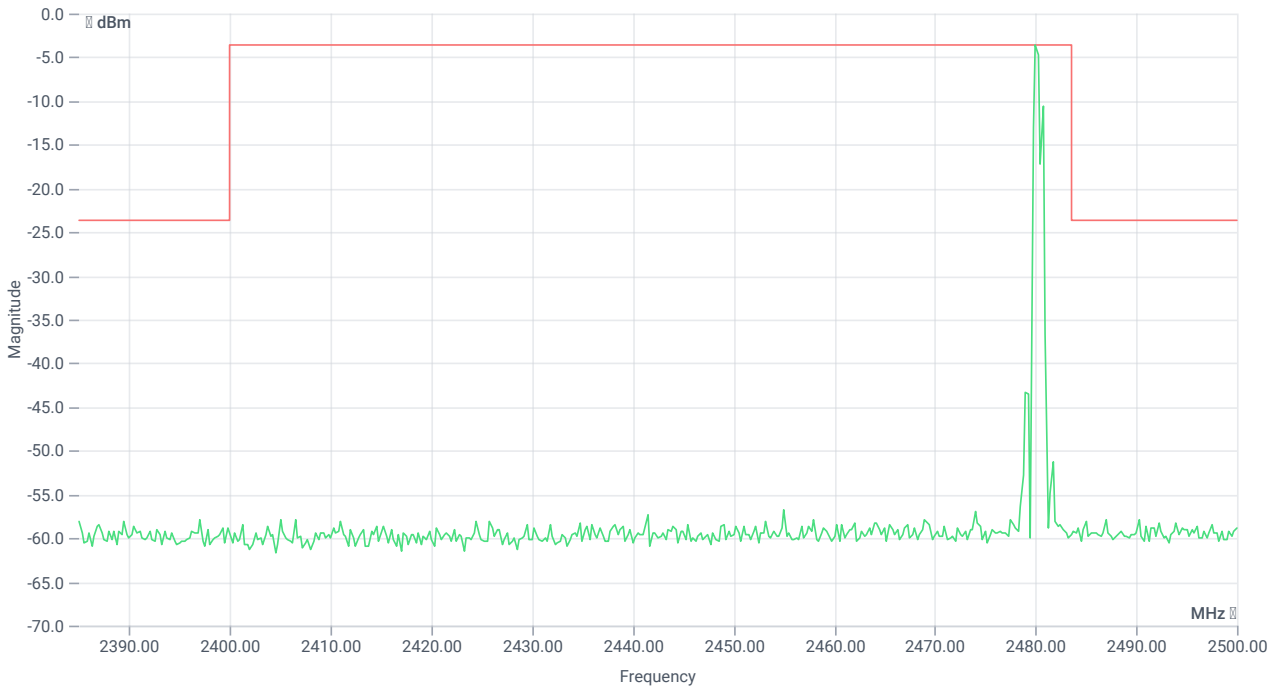
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. Power 1MHz/1MHz cond.	--	--	-4.08	dBm	INFO
Ref. Frequency	--	--	2480.500	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	-4.08   0   15
Start [MHz]   Stop [MHz]	24530.000   25030.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   2001   SWE



TX emissions band zoomed

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2480.00 MHz	--	--	-3.65	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 30 MHz	0	--	-135.87	dB	INFO

Verdict

PASS

- END OF DOCUMENT -