

# Conducted test results

No.1-7077/23-01-02\_TR1-A201-R1

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January 31, 2024

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

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**Michael Dorongovski**  
Lab Manager  
Radio Labs

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

## References

TC start	29.01.2024 08:09:17
Ambit temp [°C]   humidity [rel%]	21.8   40
System version	5.0.1.0
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	LOOPback
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	4375B100FFE6
Signaling BT Address	BABEBEDADBAD

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

## Test Parameter

Technology to test	BT Classic Basic rate
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	0.7

## Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

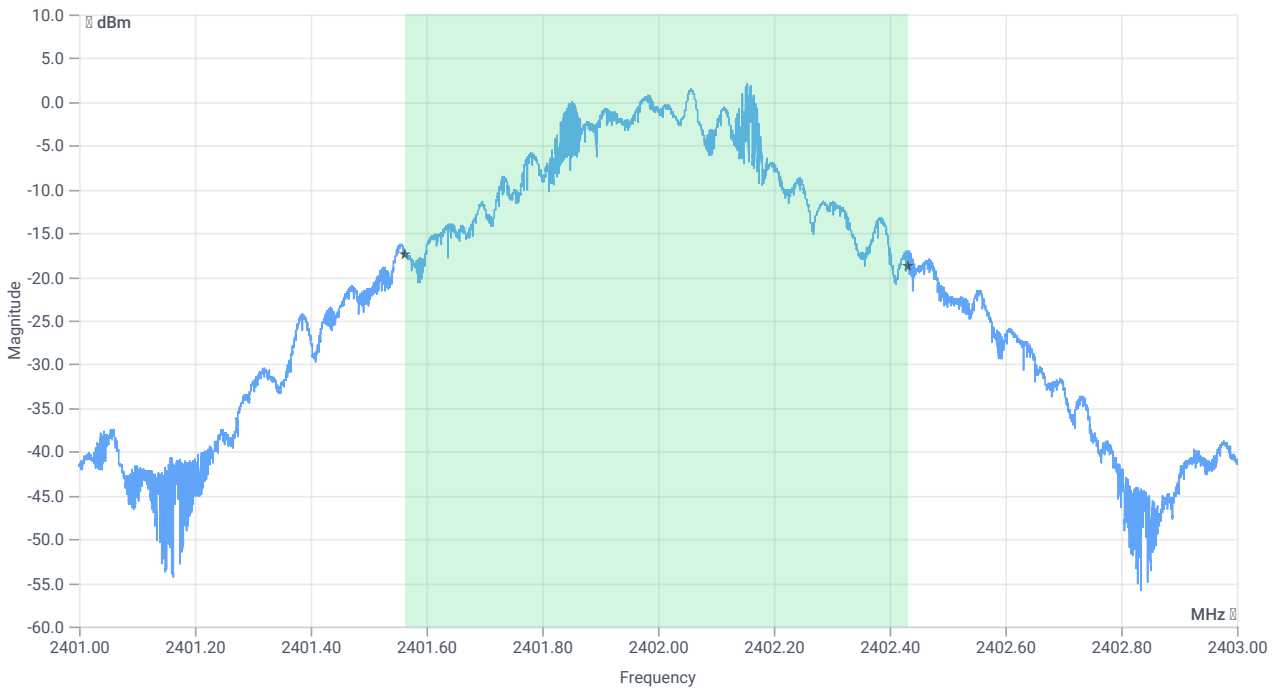
## Test at TX 2402 MHz

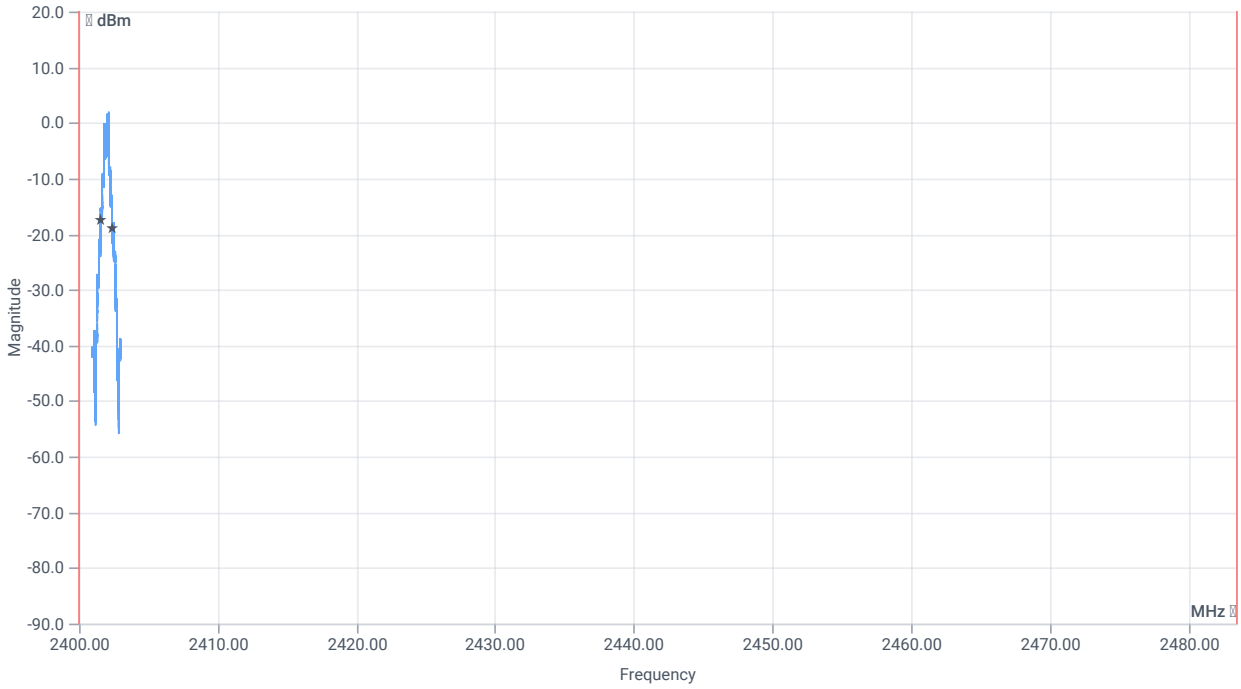
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	5.07	dBm	INFO
Ref. frequency	--	--	2401.900	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	10.07   8.96   20
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

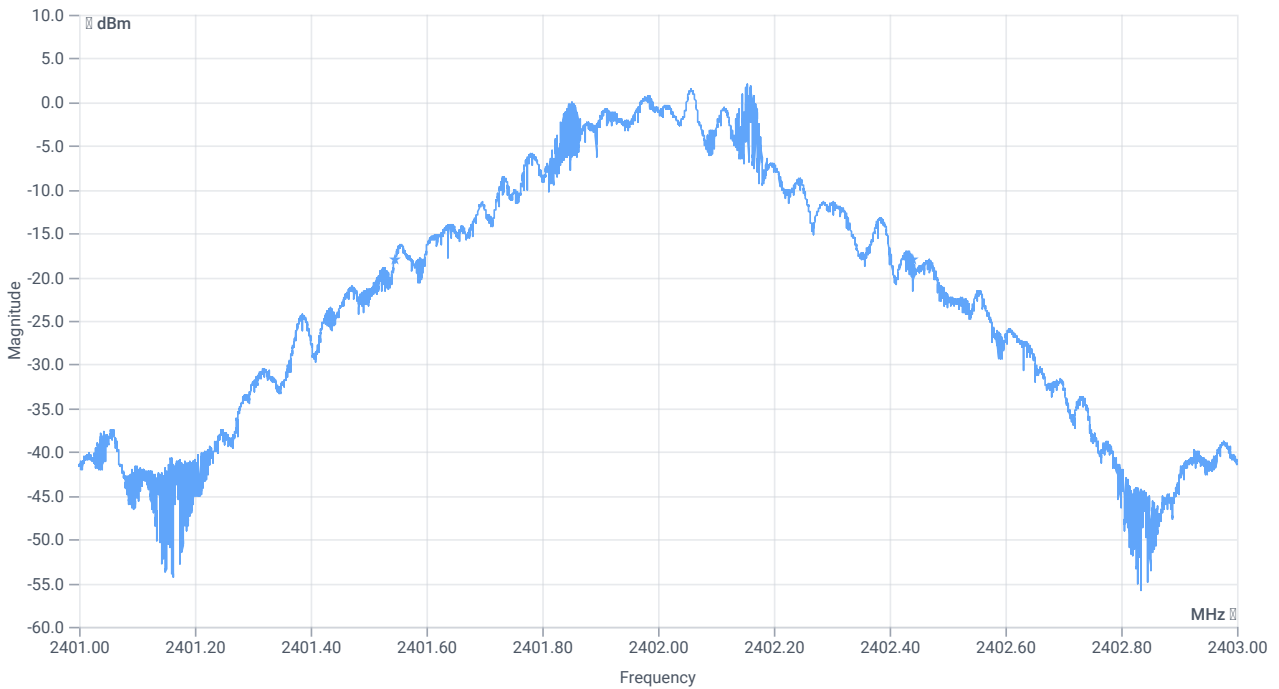




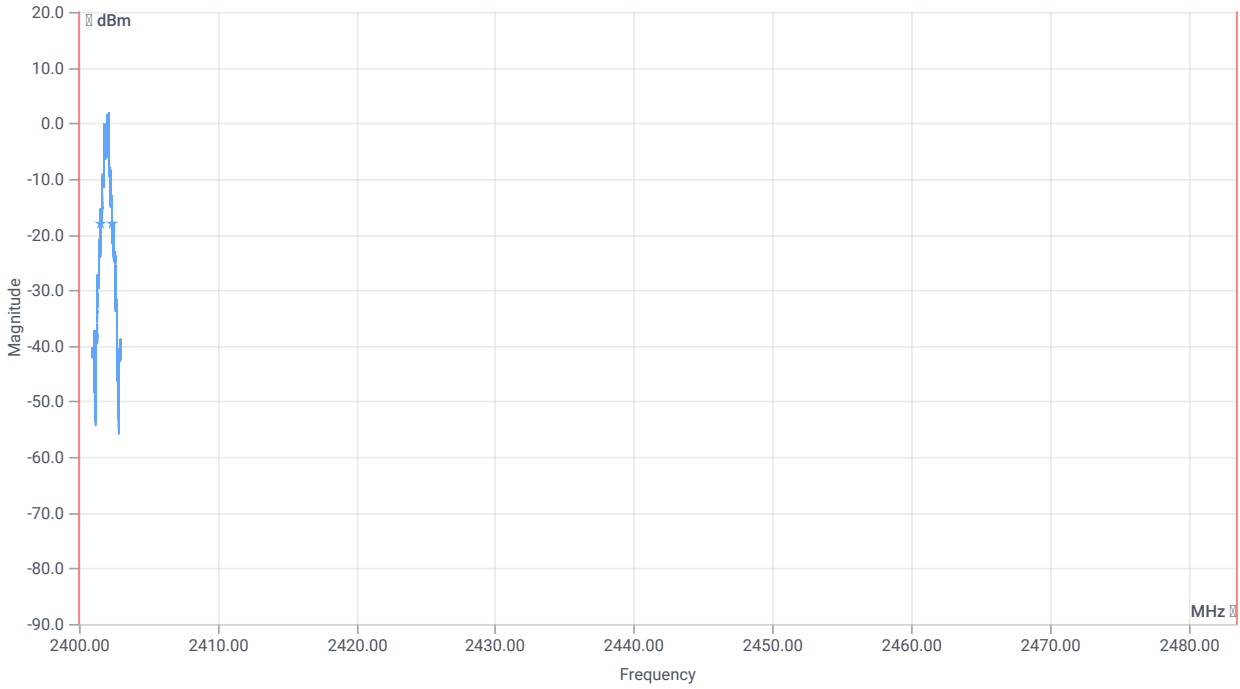
BW within Band 99PCT

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	869.000	kHz	INFO
T1 99%	2400.000000	--	2401.5622	MHz	PASS
T2 99%	--	2483.500000	2402.4314	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	895	kHz	INFO
T1 20dB	2400.000000	--	2401.5456	MHz	PASS
T2 20dB	--	2483.500000	2402.4402	MHz	PASS

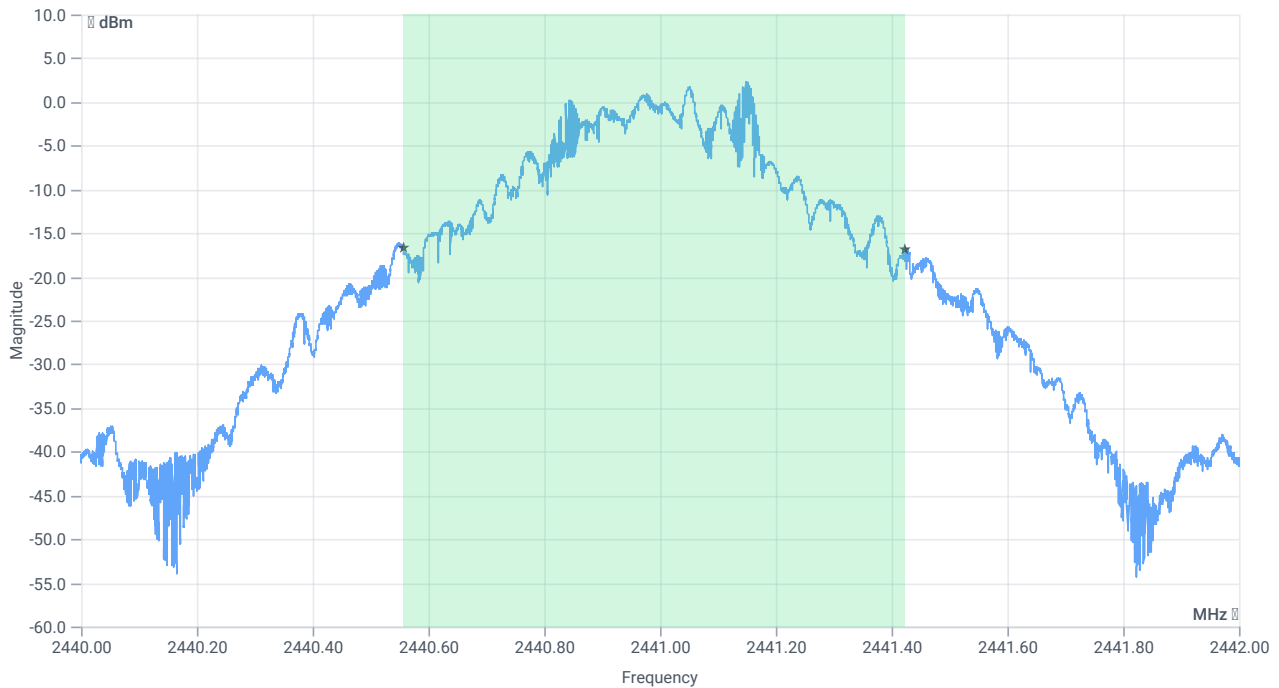
## Test at TX 2441 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	5.22	dBm	INFO
Ref. frequency	--	--	2441.100	MHz	INFO

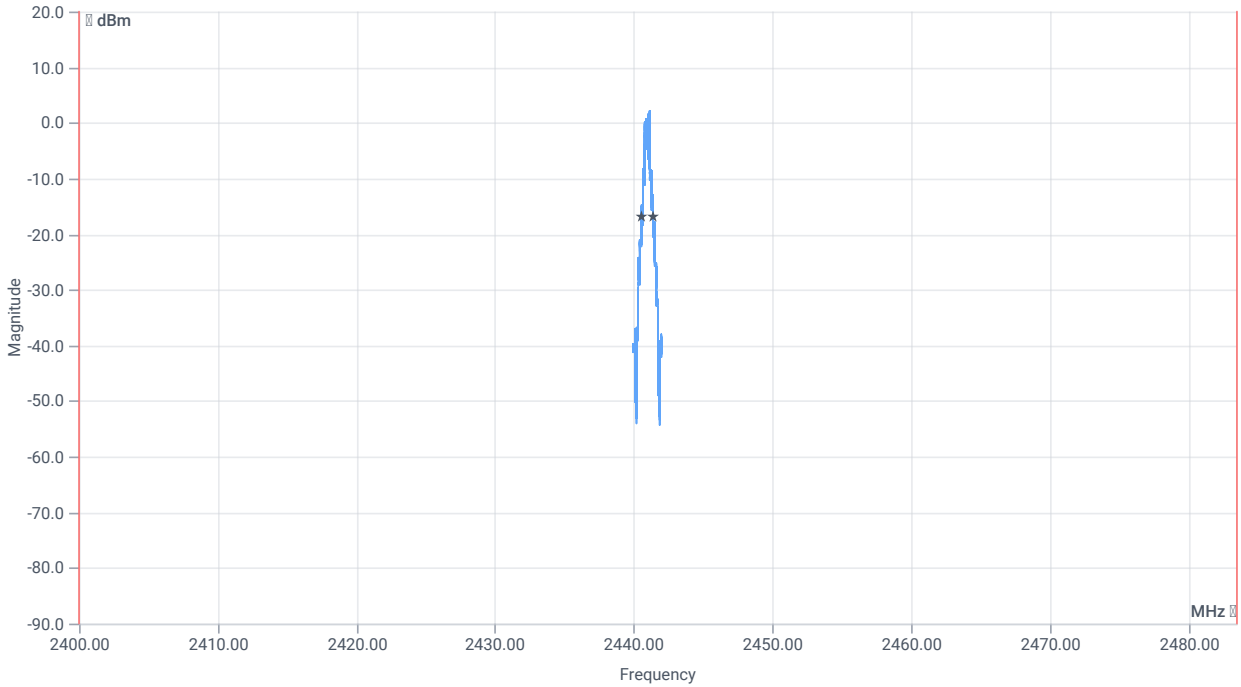
### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	10.22   9   20
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

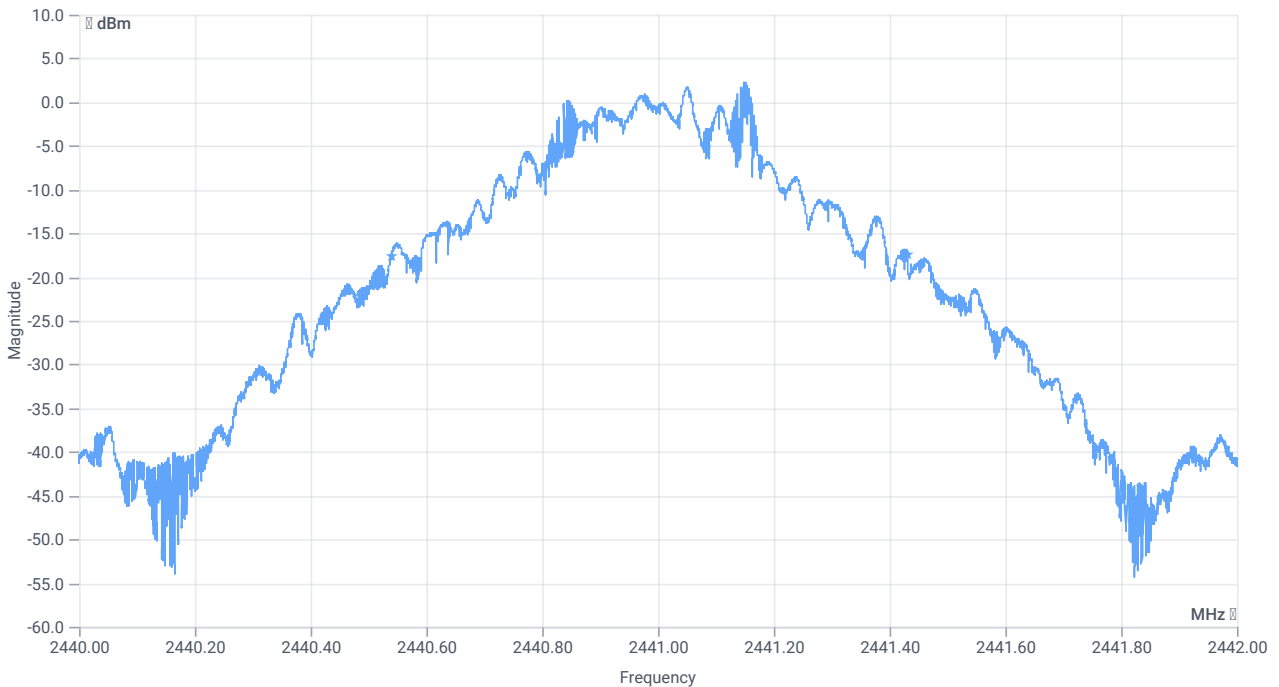




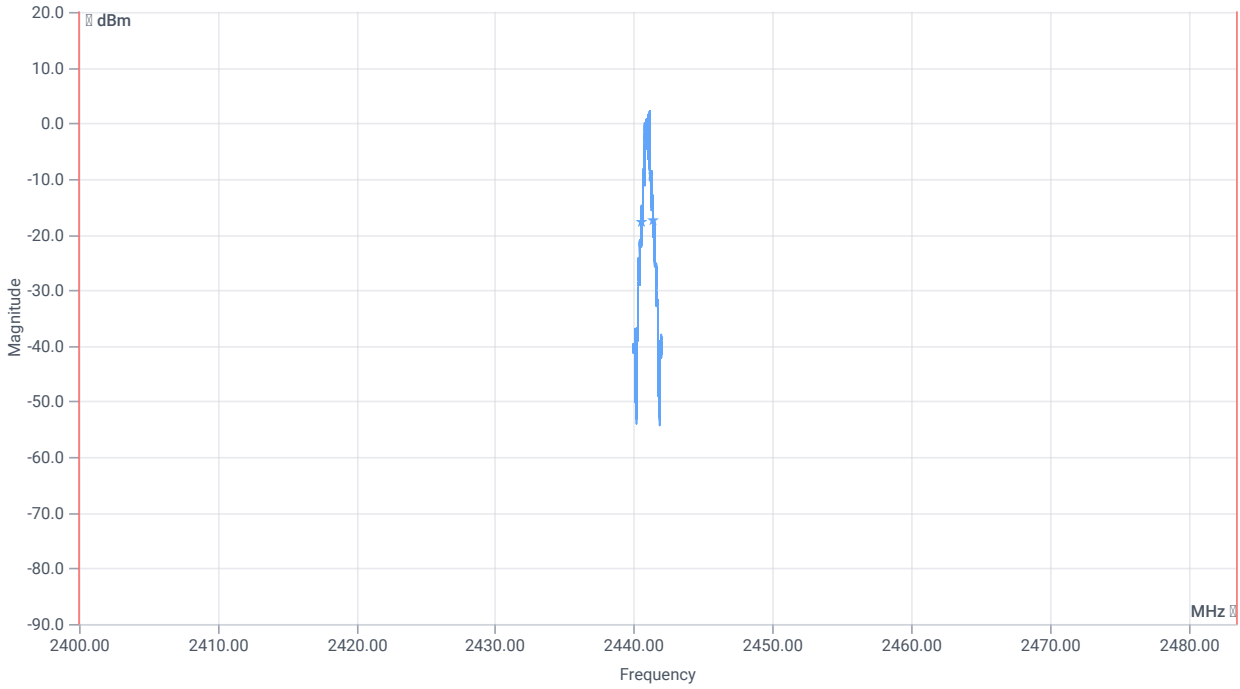
BW within Band 99PCT

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	868.000	kHz	INFO
T1 99%	2400.000000	--	2440.5558	MHz	PASS
T2 99%	--	2483.500000	2441.4240	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	892	kHz	INFO
T1 20dB	2400.000000	--	2440.5390	MHz	PASS
T2 20dB	--	2483.500000	2441.4312	MHz	PASS

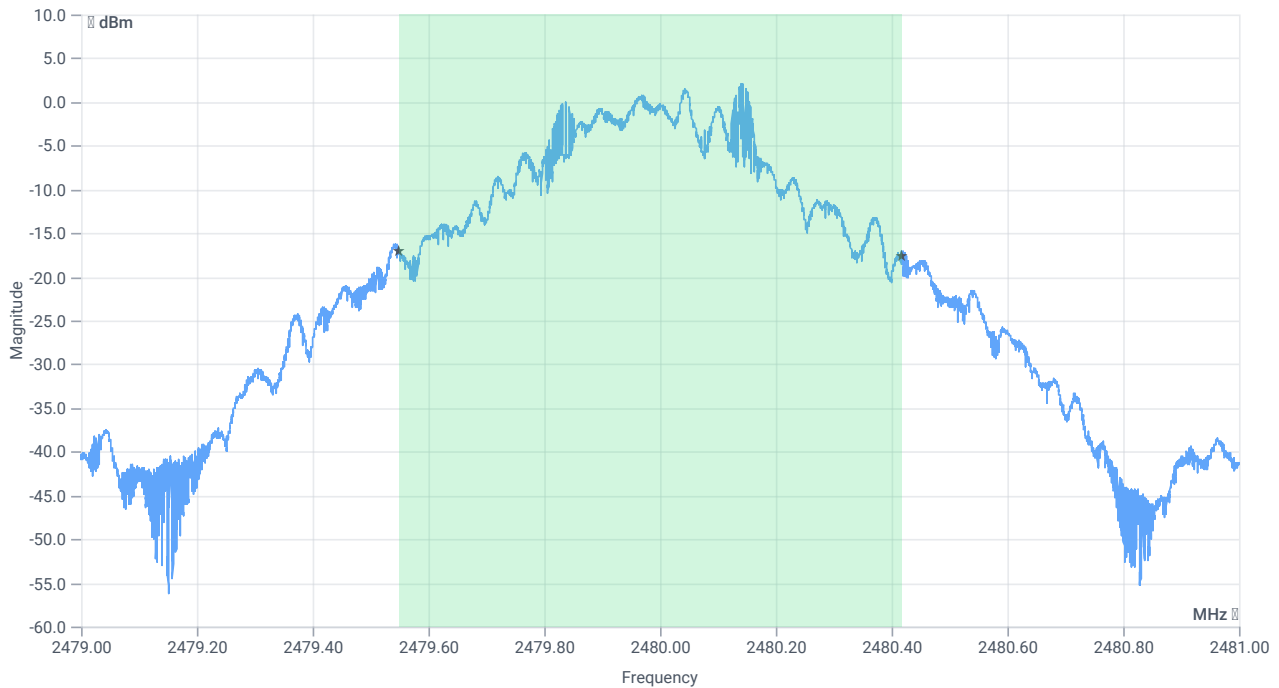
## Test at TX 2480 MHz

RESULT: Reference power cond.

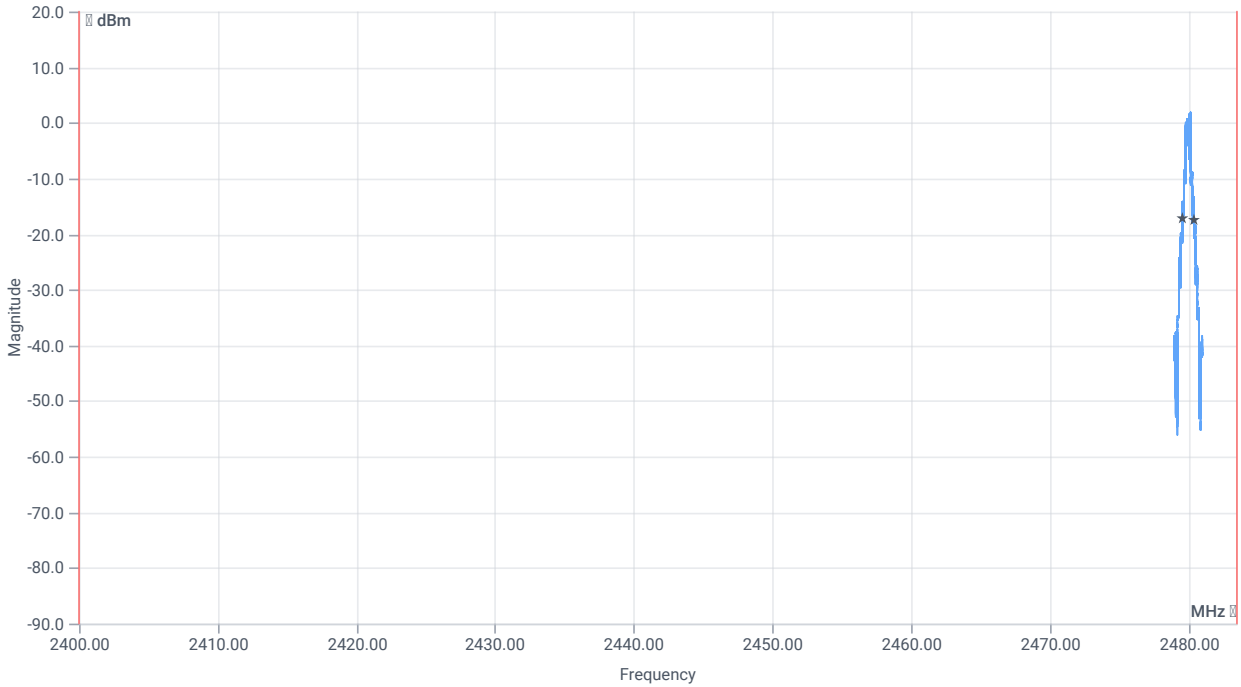
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	5.02	dBm	INFO
Ref. frequency	--	--	2479.800	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	10.02   9.1   20
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



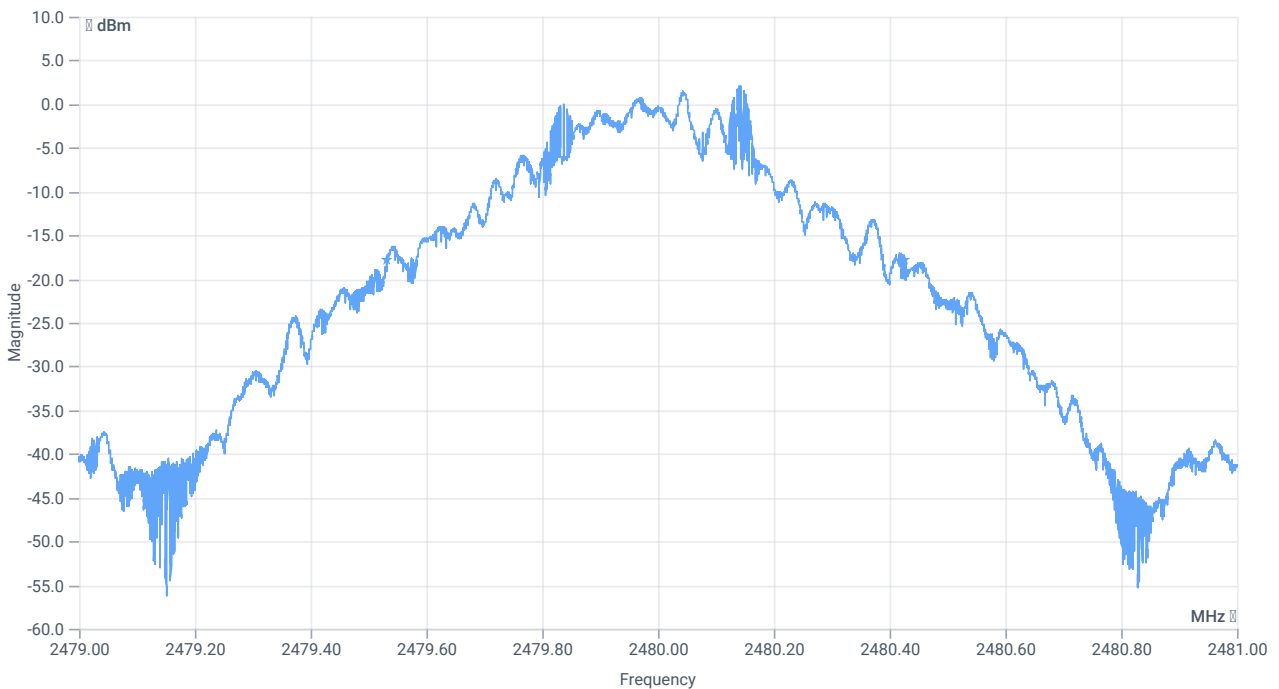
BW 99PCT



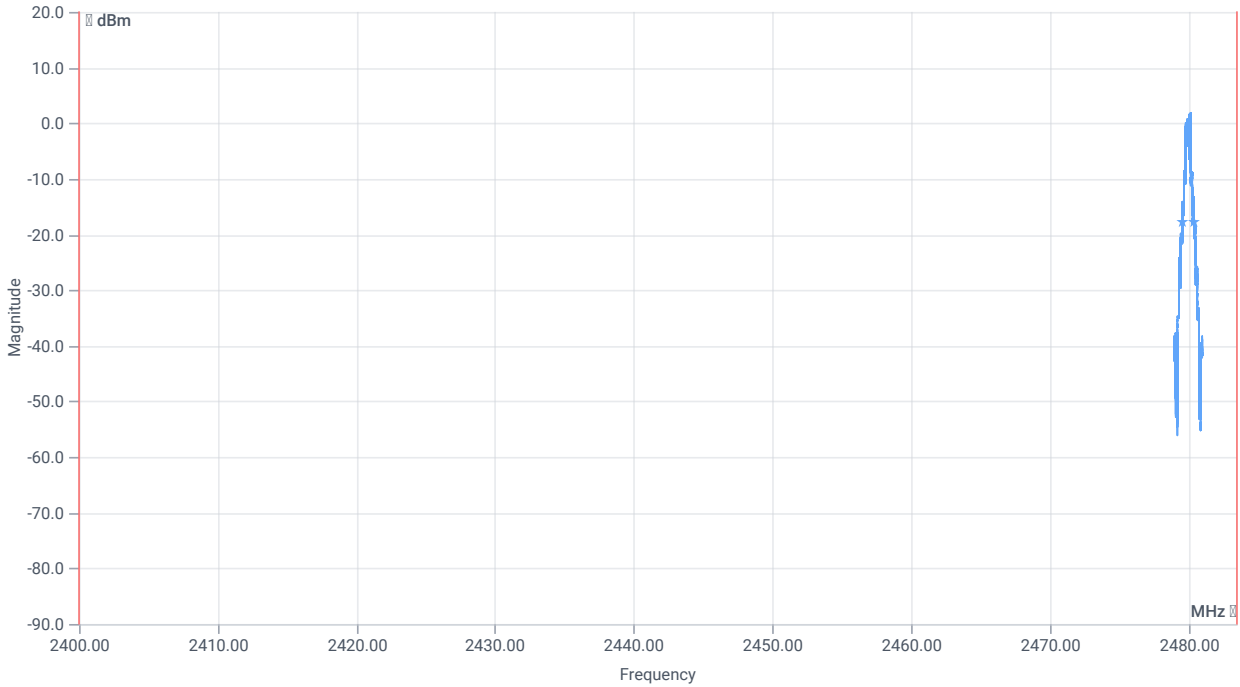
BW within Band 99PCT

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	870.000	kHz	INFO
T1 99%	2400.000000	--	2479.5480	MHz	PASS
T2 99%	--	2483.500000	2480.4176	MHz	PASS



BW 20dB



BW within band 20dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	894	kHz	INFO
T1 20dB	2400.000000	--	2479.5318	MHz	PASS
T2 20dB	--	2483.500000	2480.4258	MHz	PASS

Verdict

PASS

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

## References

TC start	29.01.2024 09:55:08
Ambit temp [°C]   humidity [rel%]	25.6   28
System version	5.0.1.0
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	LOOPback
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	4375B100FFE6
Signaling BT Address	BABEBEDADBAD

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

## Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No

## Test Parameter

Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

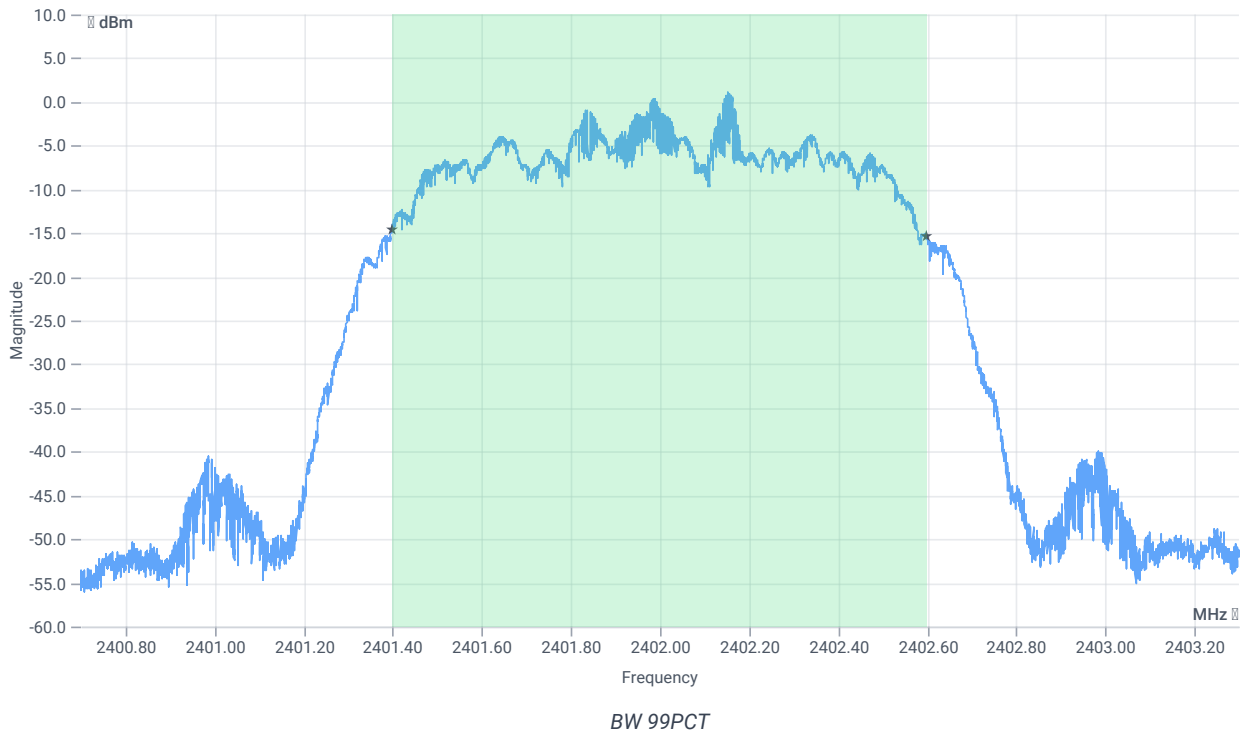
## Test at TX 2402 MHz

RESULT: Reference power cond.

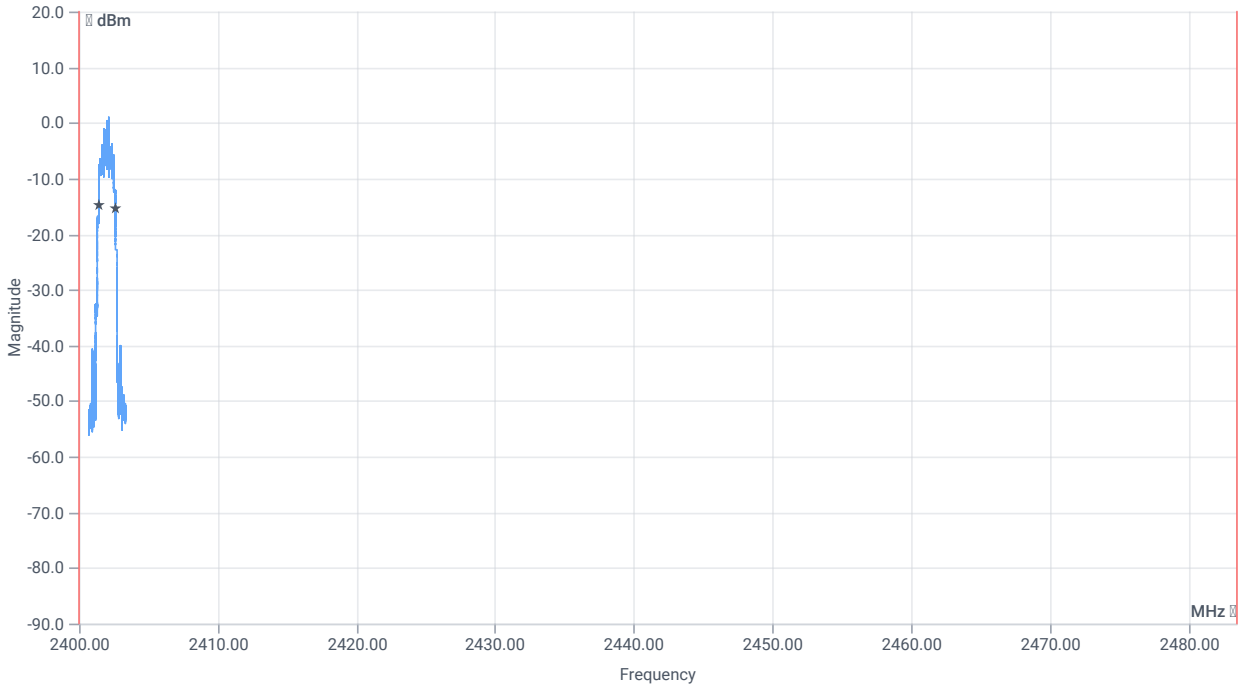
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.55	dBm	INFO
Ref. frequency	--	--	2402.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	9.55   8.96   20
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



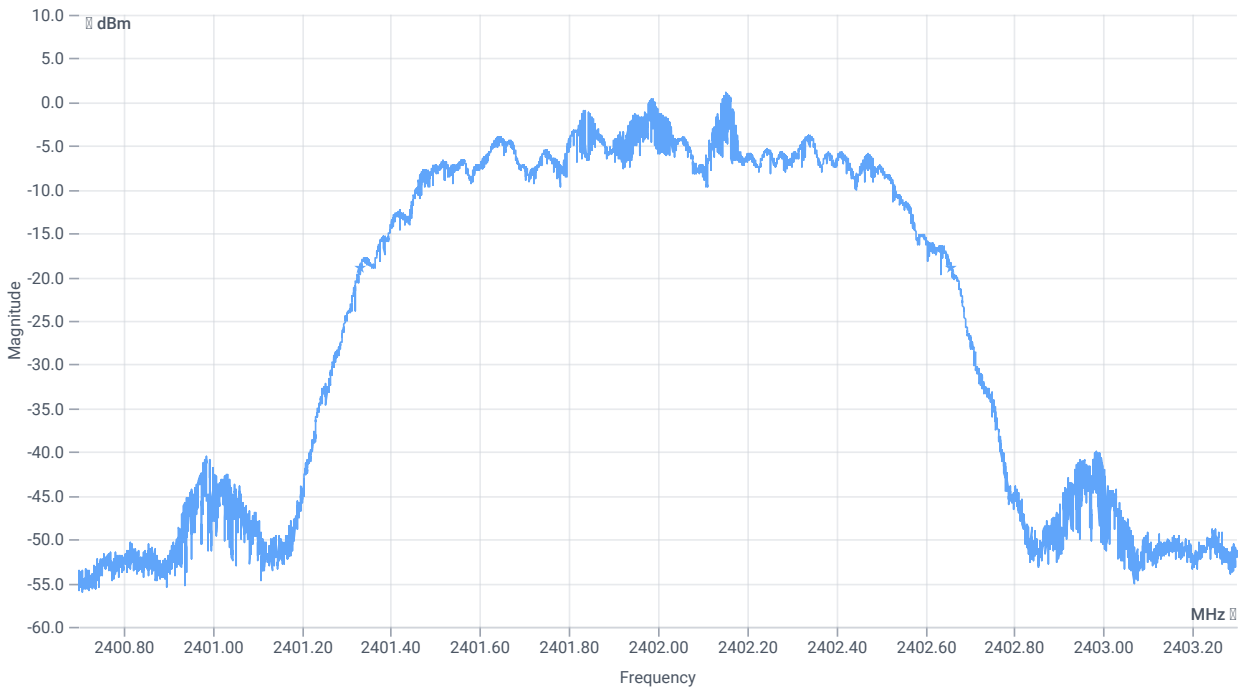




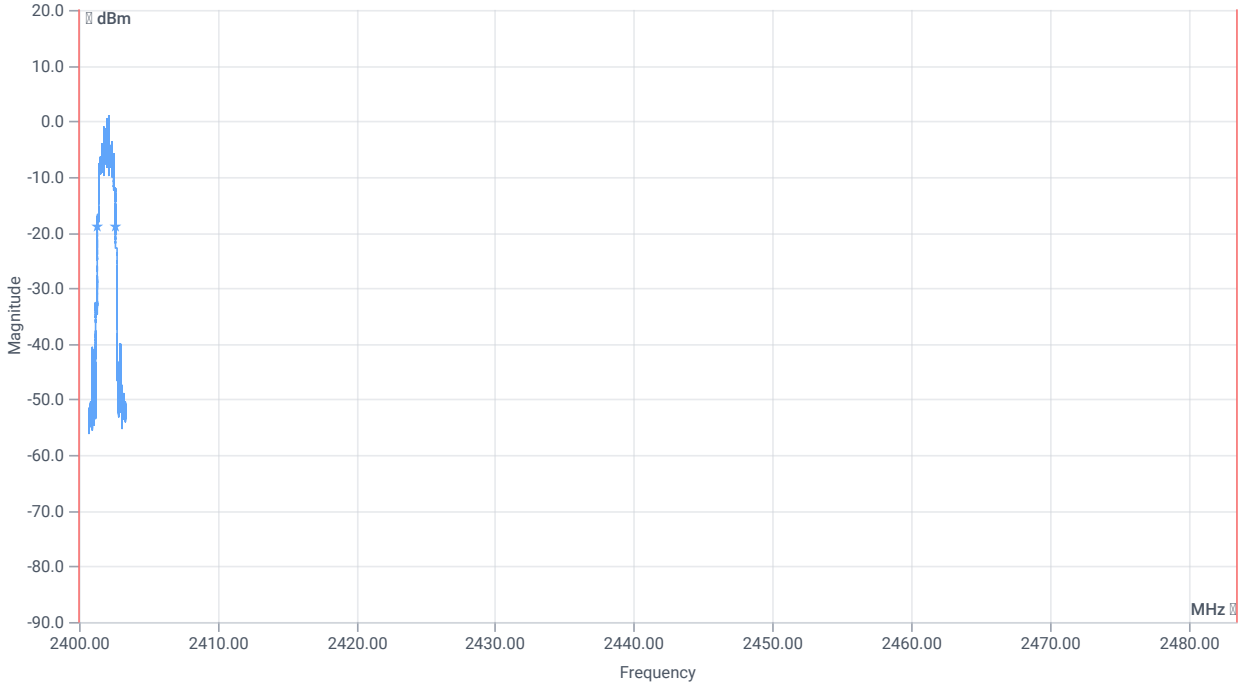
BW within Band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1200.000	kHz	INFO
T1 99%	2400.000000	--	2401.3974	MHz	PASS
T2 99%	--	2483.500000	2402.5977	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1328	kHz	INFO
T1 20dB	2400.000000	--	2401.3308	MHz	PASS
T2 20dB	--	2483.500000	2402.6588	MHz	PASS

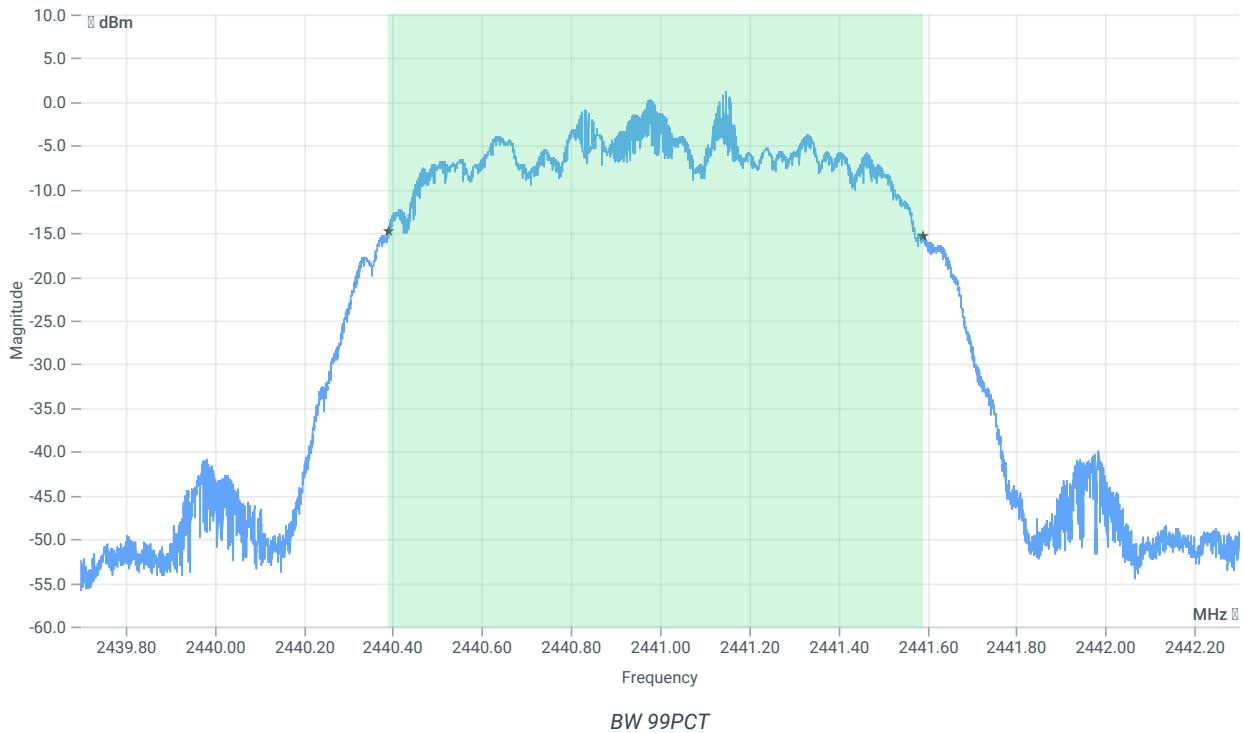
## Test at TX 2441 MHz

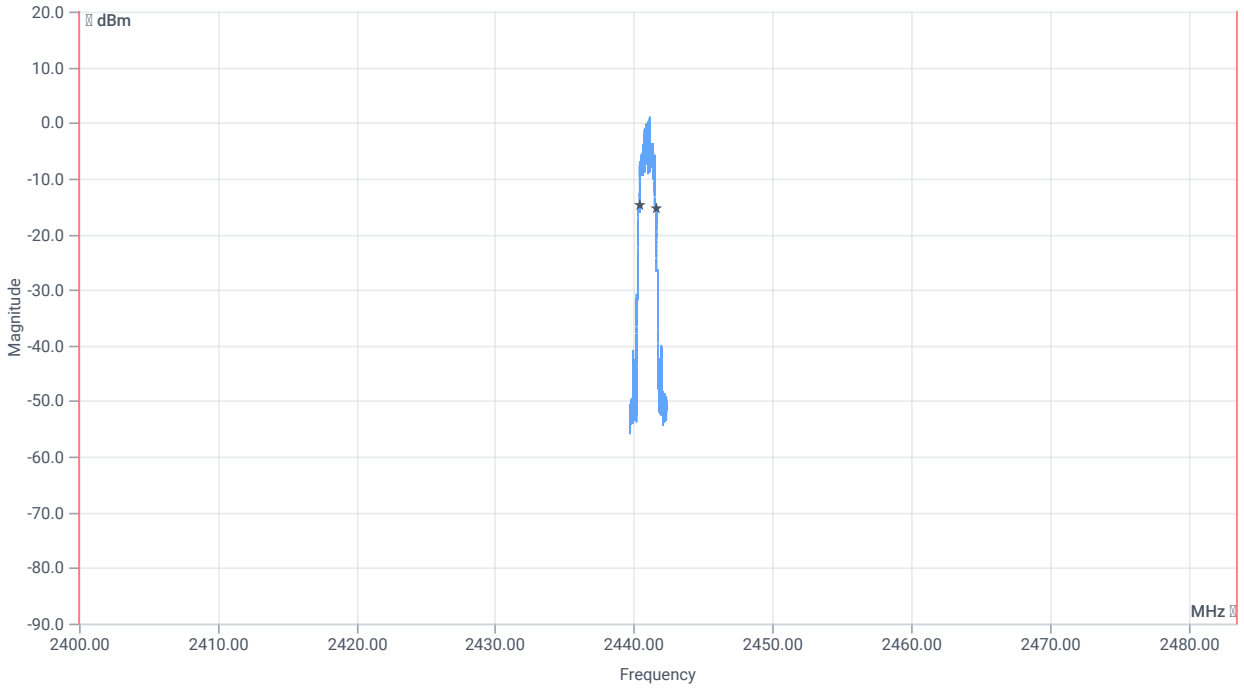
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.53	dBm	INFO
Ref. frequency	--	--	2441.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	9.53   9   20
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

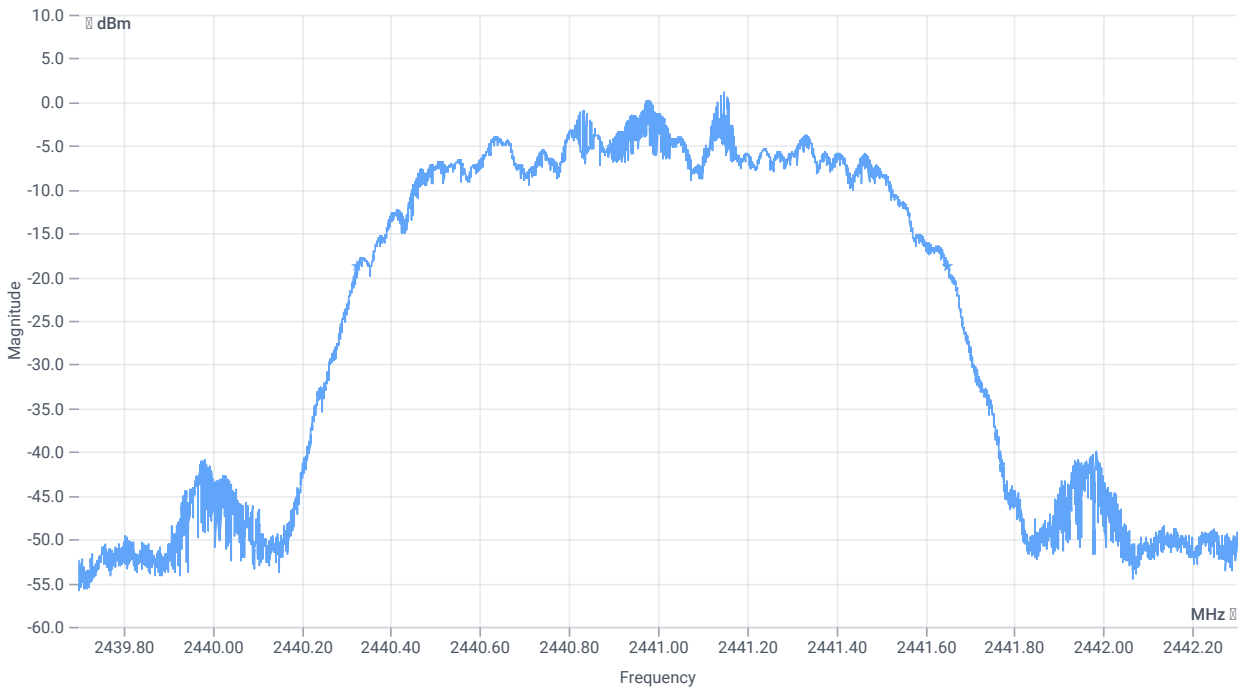




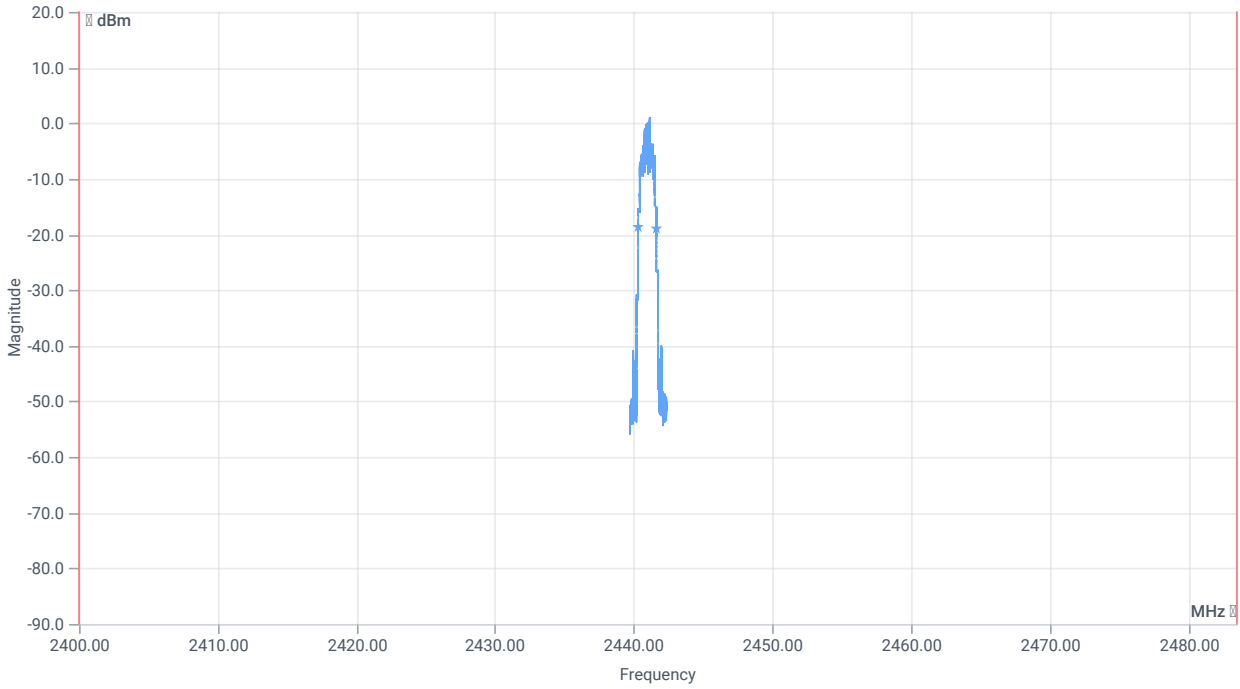
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1201.000	kHz	INFO
T1 99%	2400.000000	--	2440.3904	MHz	PASS
T2 99%	--	2483.500000	2441.5909	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1327	kHz	INFO
T1 20dB	2400.000000	--	2440.3253	MHz	PASS
T2 20dB	--	2483.500000	2441.6518	MHz	PASS

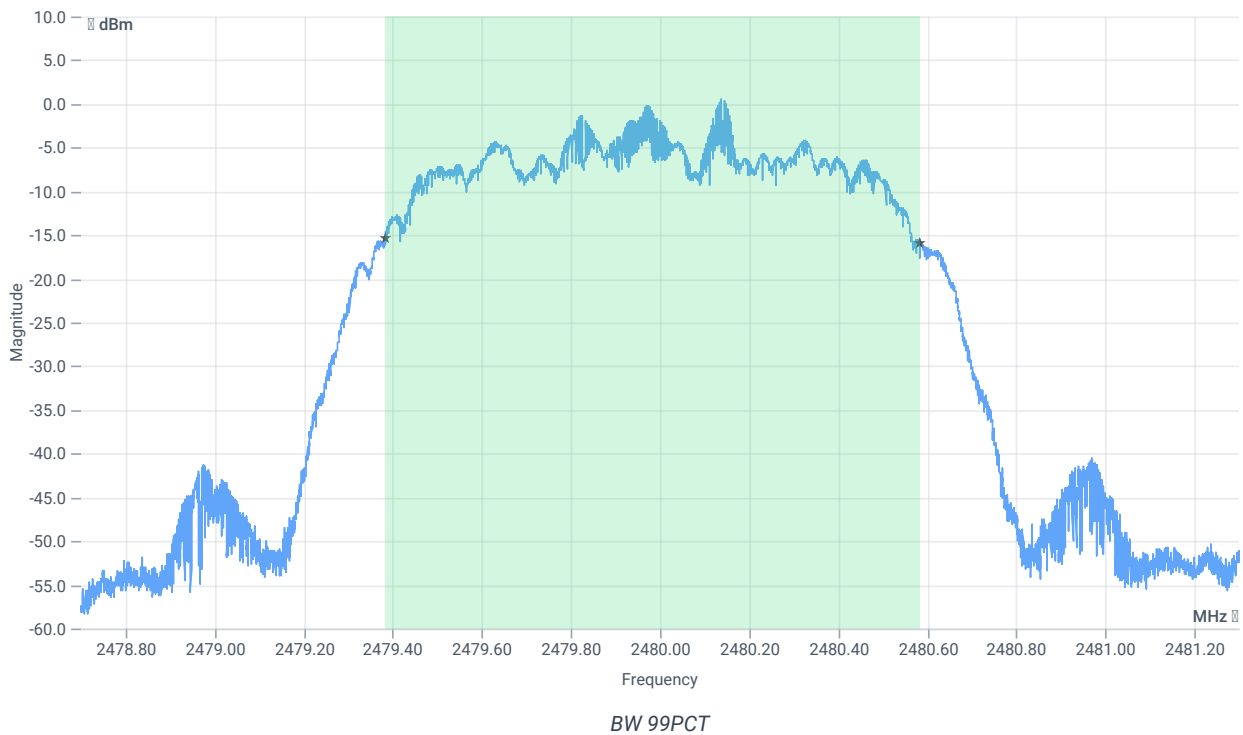
## Test at TX 2480 MHz

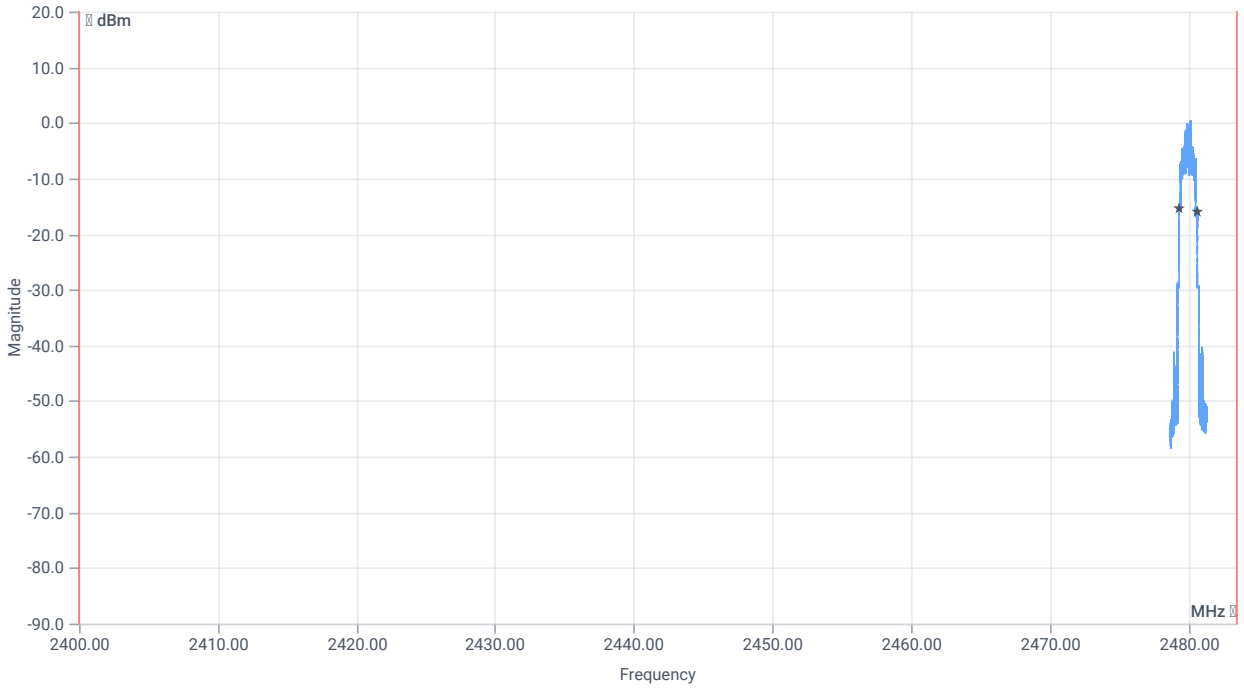
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.29	dBm	INFO
Ref. frequency	--	--	2480.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	9.29   9.1   20
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

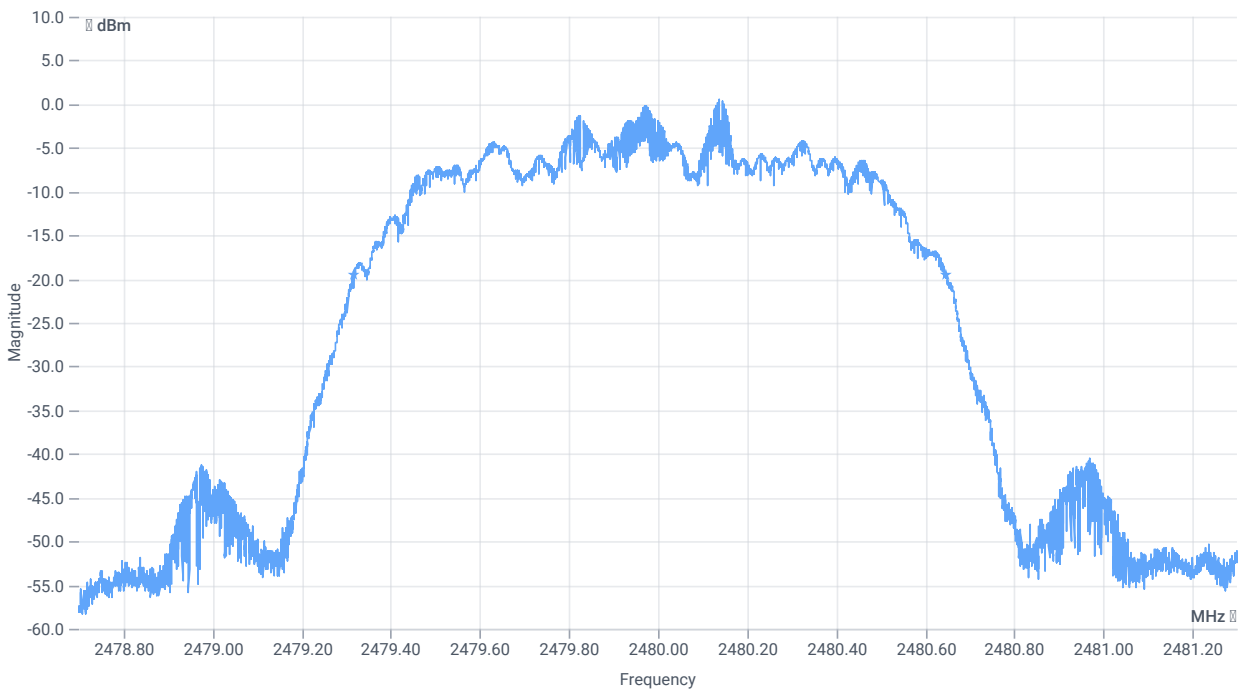




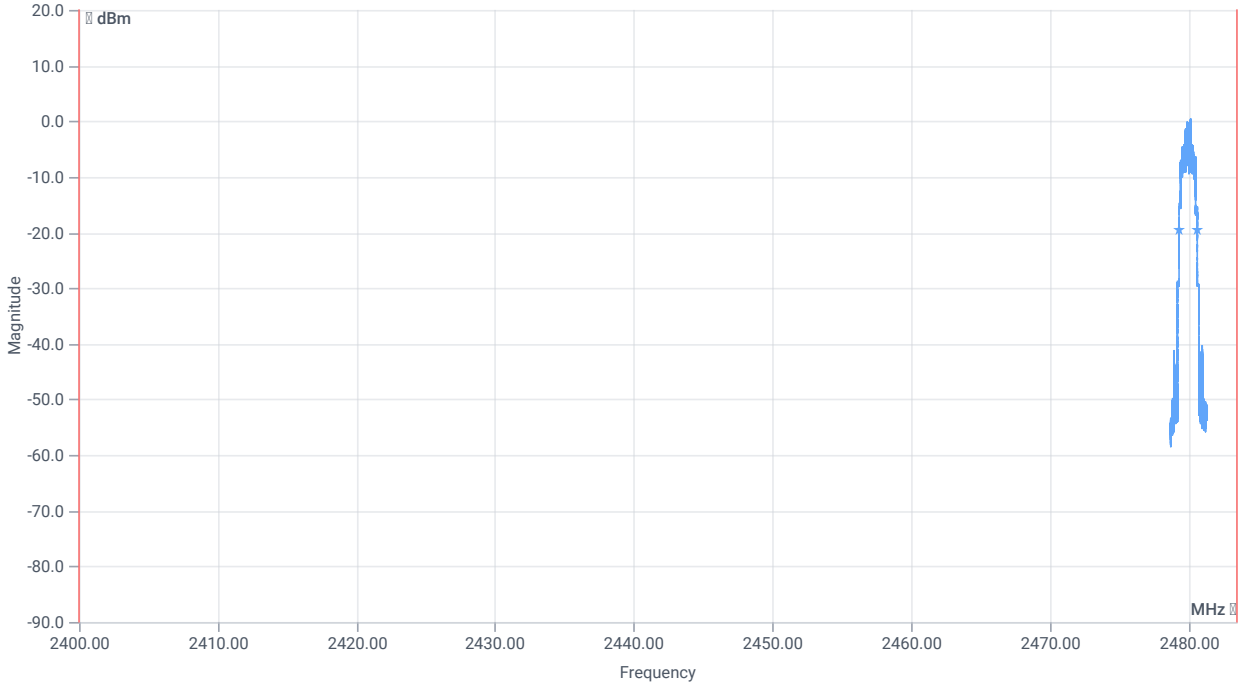
*BW within Band 99PCT*

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1201.000	kHz	INFO
T1 99%	2400.000000	--	2479.3836	MHz	PASS
T2 99%	--	2483.500000	2480.5849	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1329	kHz	INFO
T1 20dB	2400.000000	--	2479.3167	MHz	PASS
T2 20dB	--	2483.500000	2480.6458	MHz	PASS

Verdict

PASS



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

## References

TC start	29.01.2024 08:53:19
Ambit temp [°C]   humidity [rel%]	25.1   30
System version	5.0.1.0
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	LOOPback
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	4375B100FFE6
Signaling BT Address	BABEBEDADBAD

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

## Test Parameter

Technology to test	BT Classic EDR 8DPSK
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	0.7

## Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

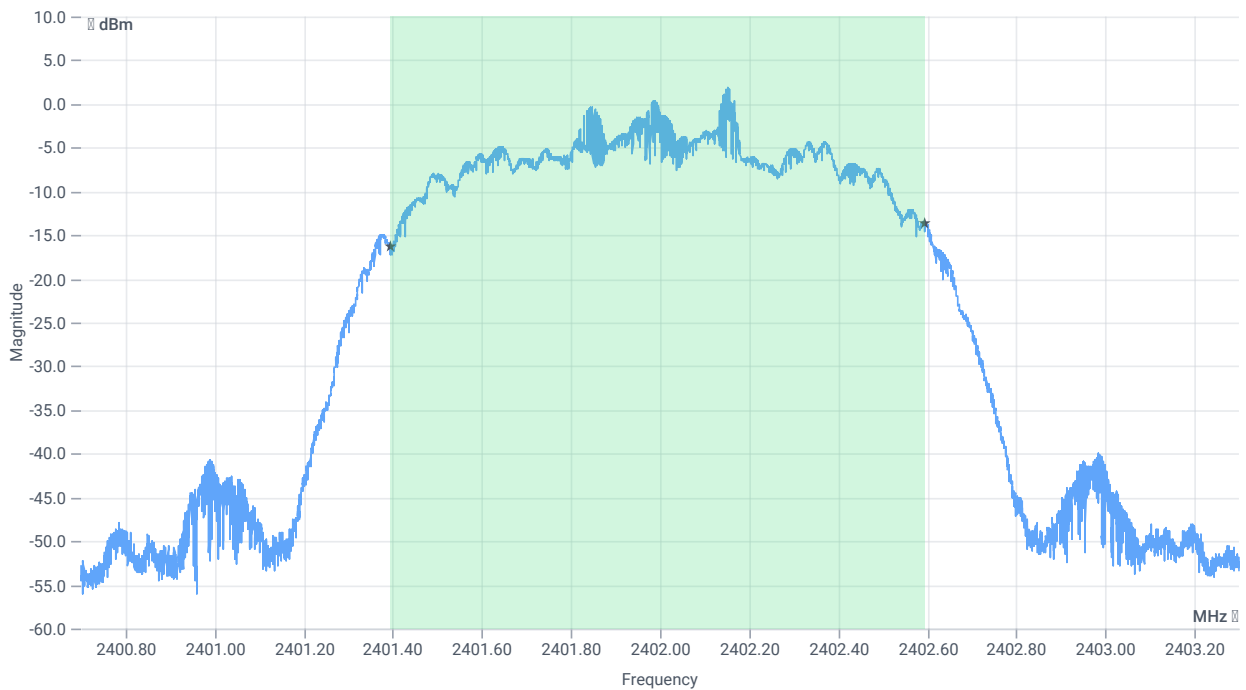
## Test at TX 2402 MHz

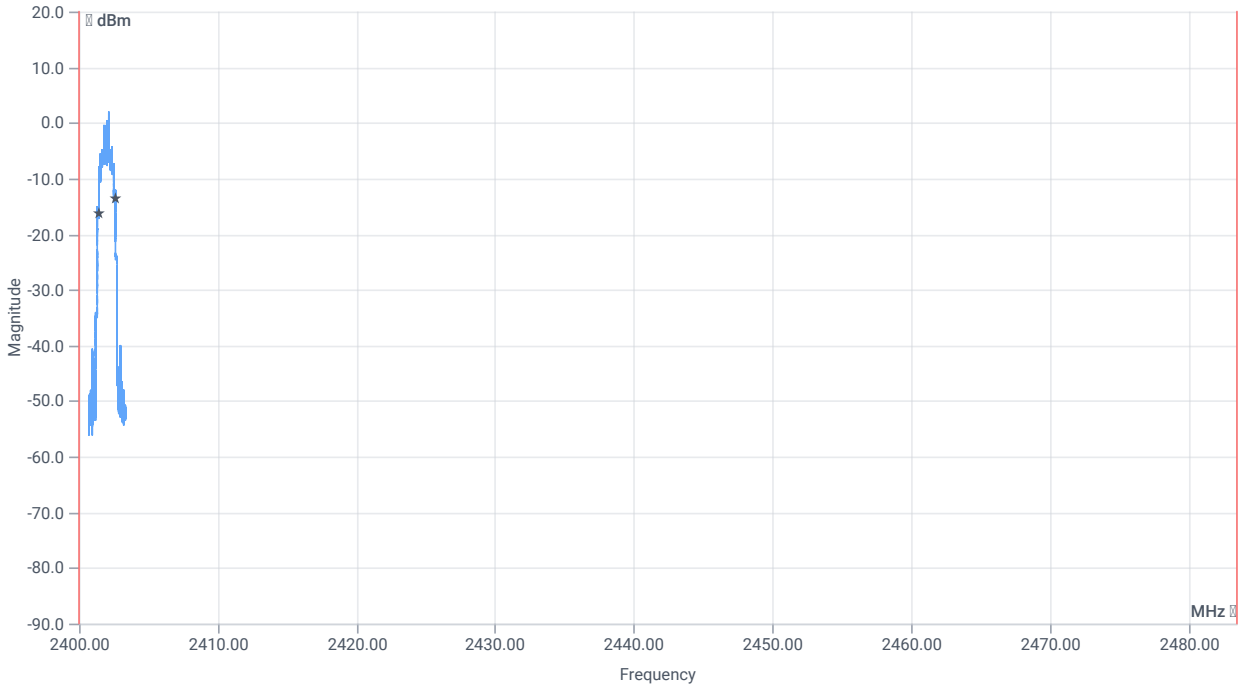
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.75	dBm	INFO
Ref. frequency	--	--	2402.000	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	9.75   8.96   20
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

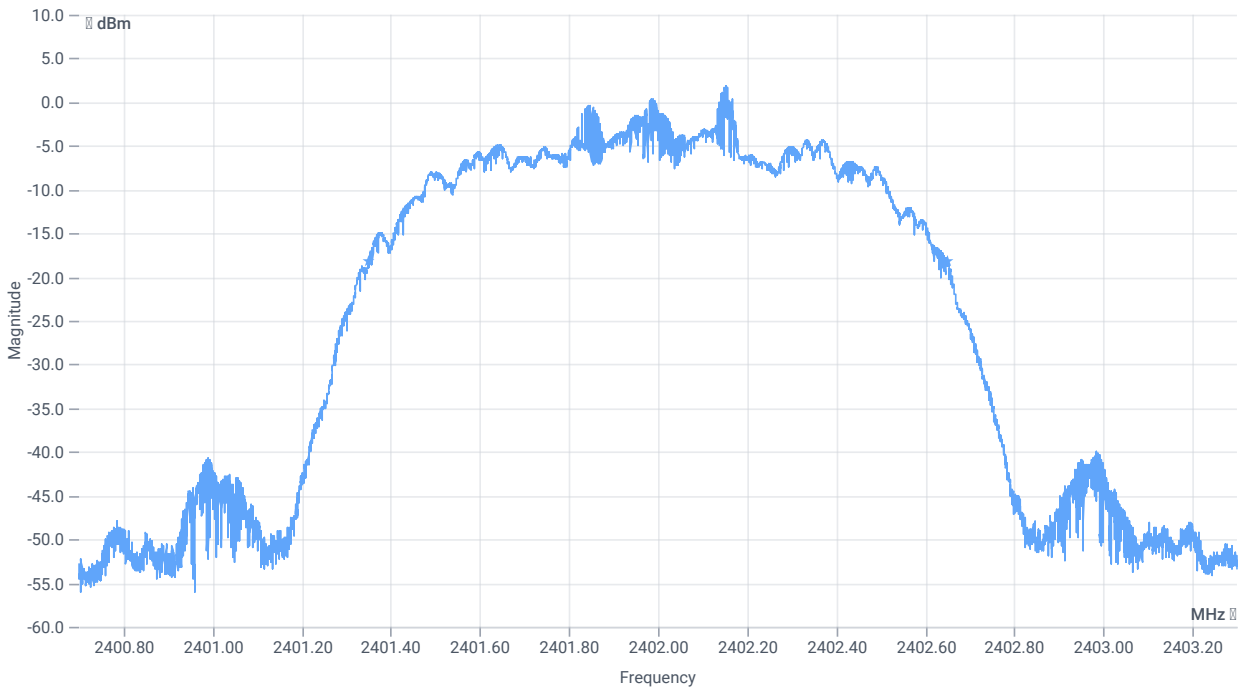




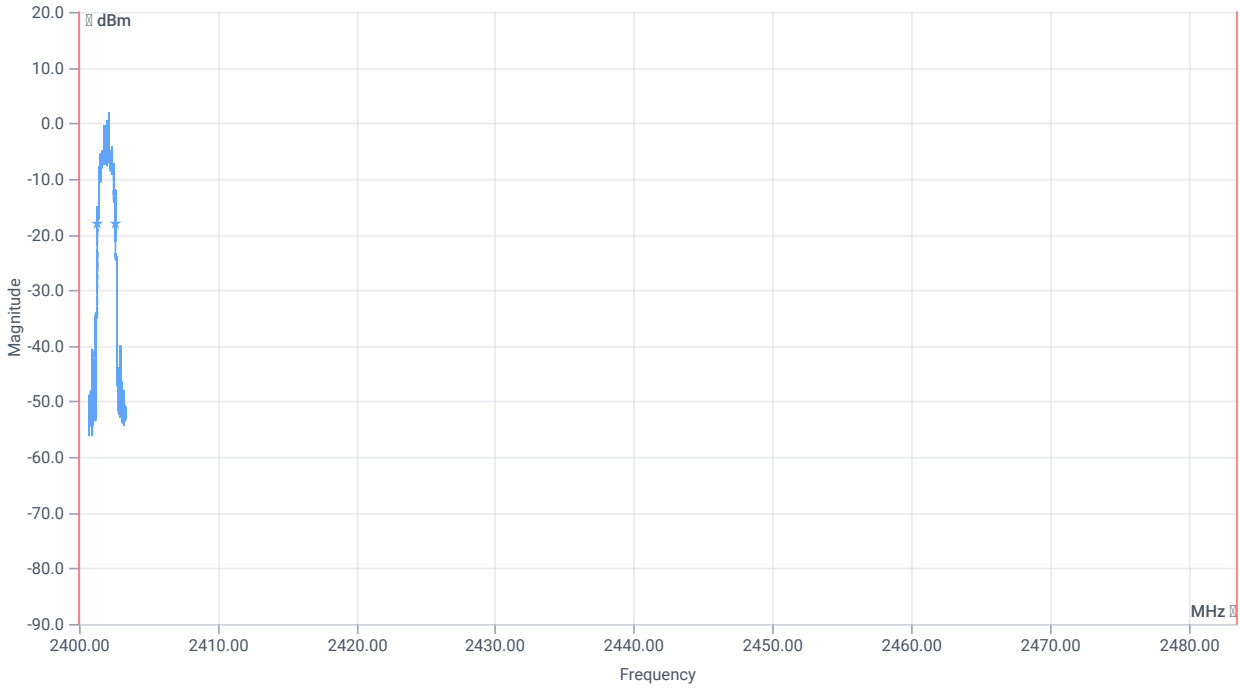
BW within Band 99PCT

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1202.000	kHz	INFO
T1 99%	2400.000000	--	2401.3937	MHz	PASS
T2 99%	--	2483.500000	2402.5959	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1298	kHz	INFO
T1 20dB	2400.000000	--	2401.3505	MHz	PASS
T2 20dB	--	2483.500000	2402.6490	MHz	PASS

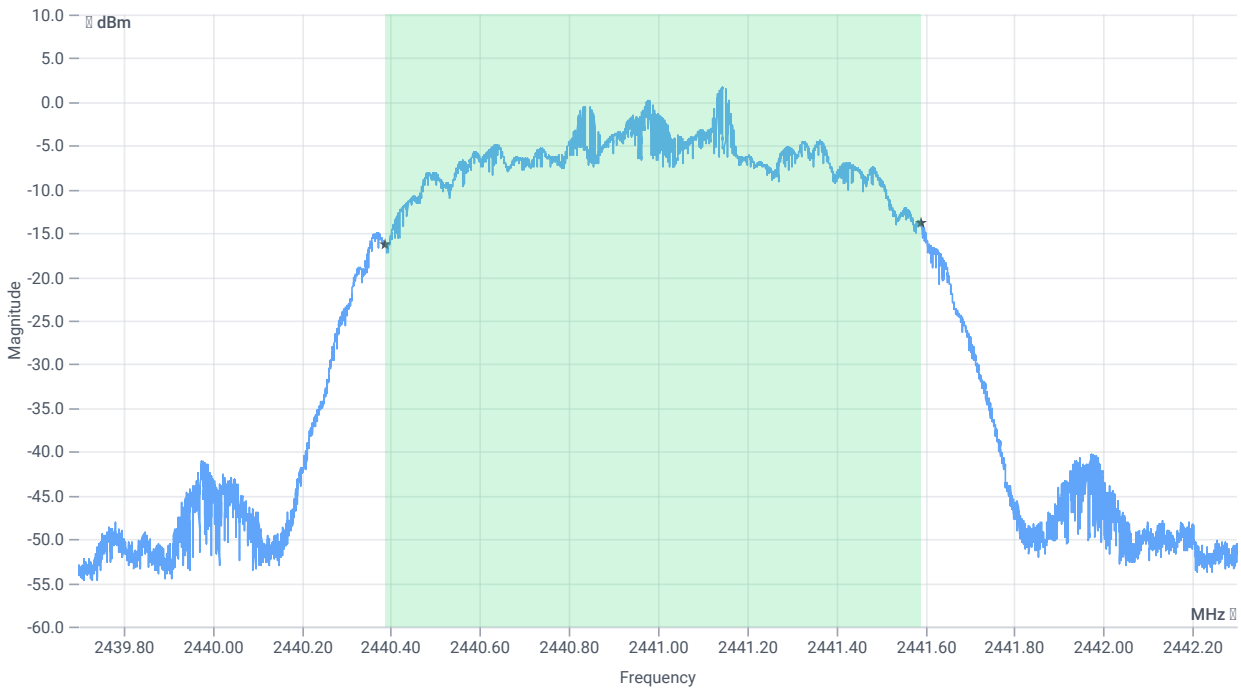
## Test at TX 2441 MHz

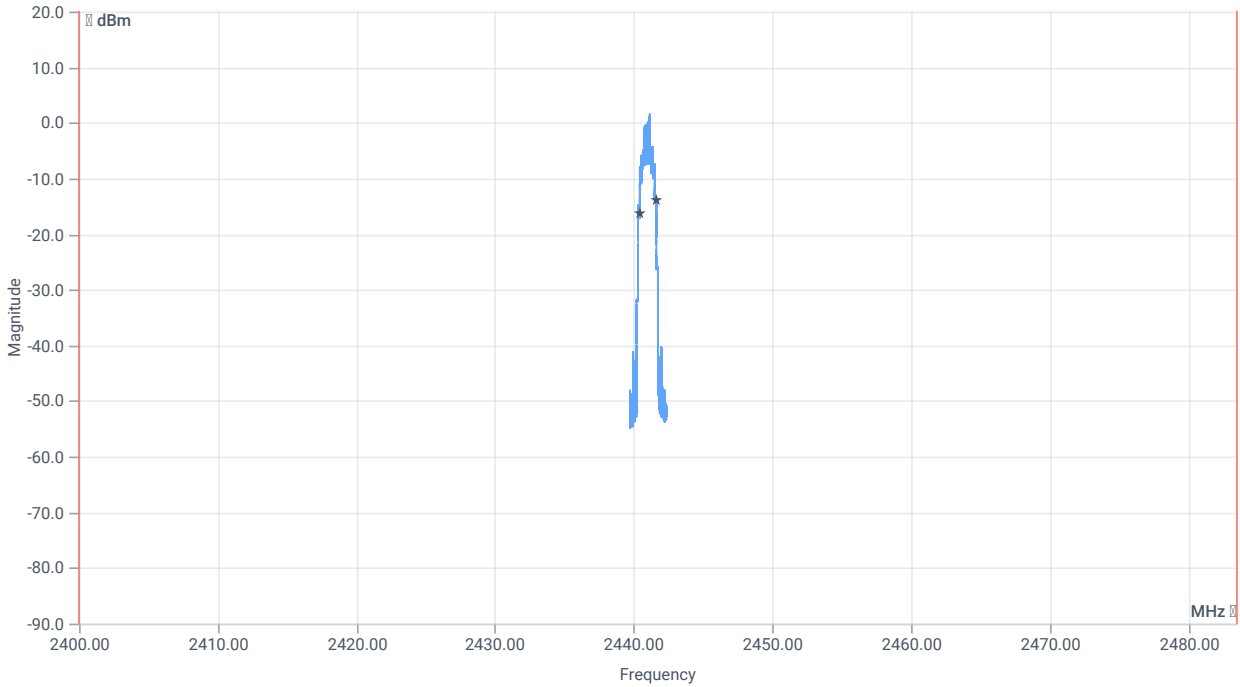
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.31	dBm	INFO
Ref. frequency	--	--	2441.100	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	9.31   9   20
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

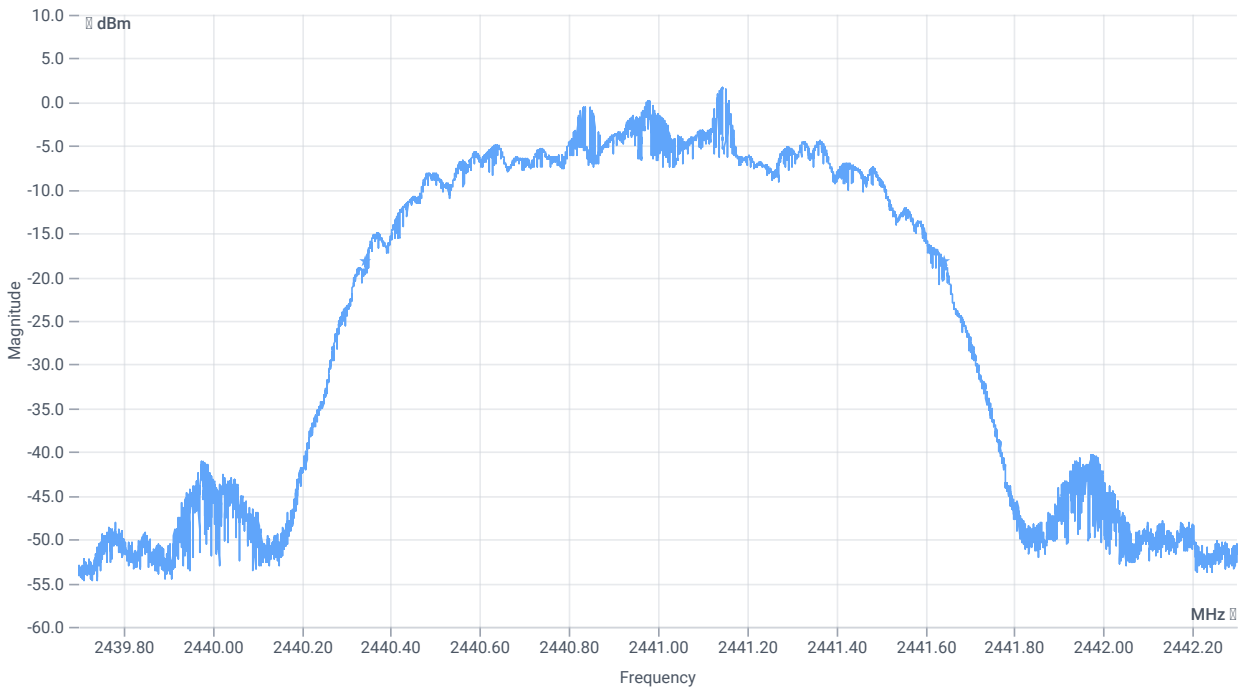




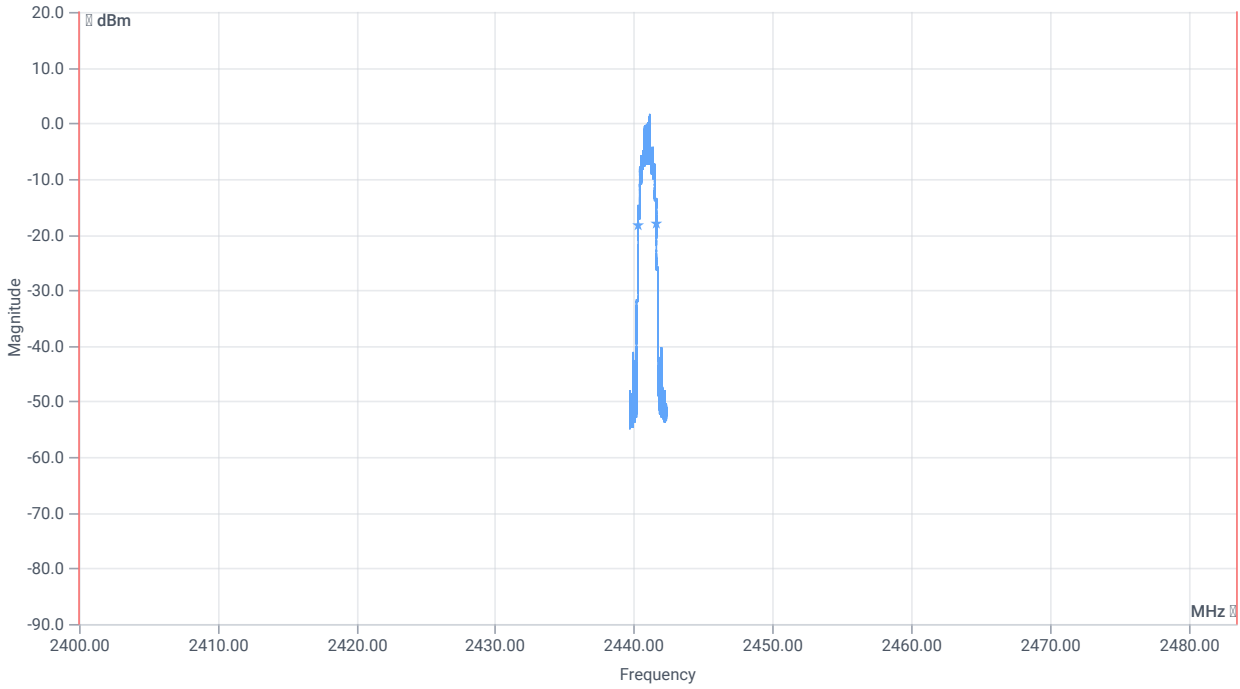
BW within Band 99PCT

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1203.000	kHz	INFO
T1 99%	2400.000000	--	2440.3862	MHz	PASS
T2 99%	--	2483.500000	2441.5894	MHz	PASS



BW 20dB



BW within band 20dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1298	kHz	INFO
T1 20dB	2400.000000	--	2440.3438	MHz	PASS
T2 20dB	--	2483.500000	2441.6419	MHz	PASS



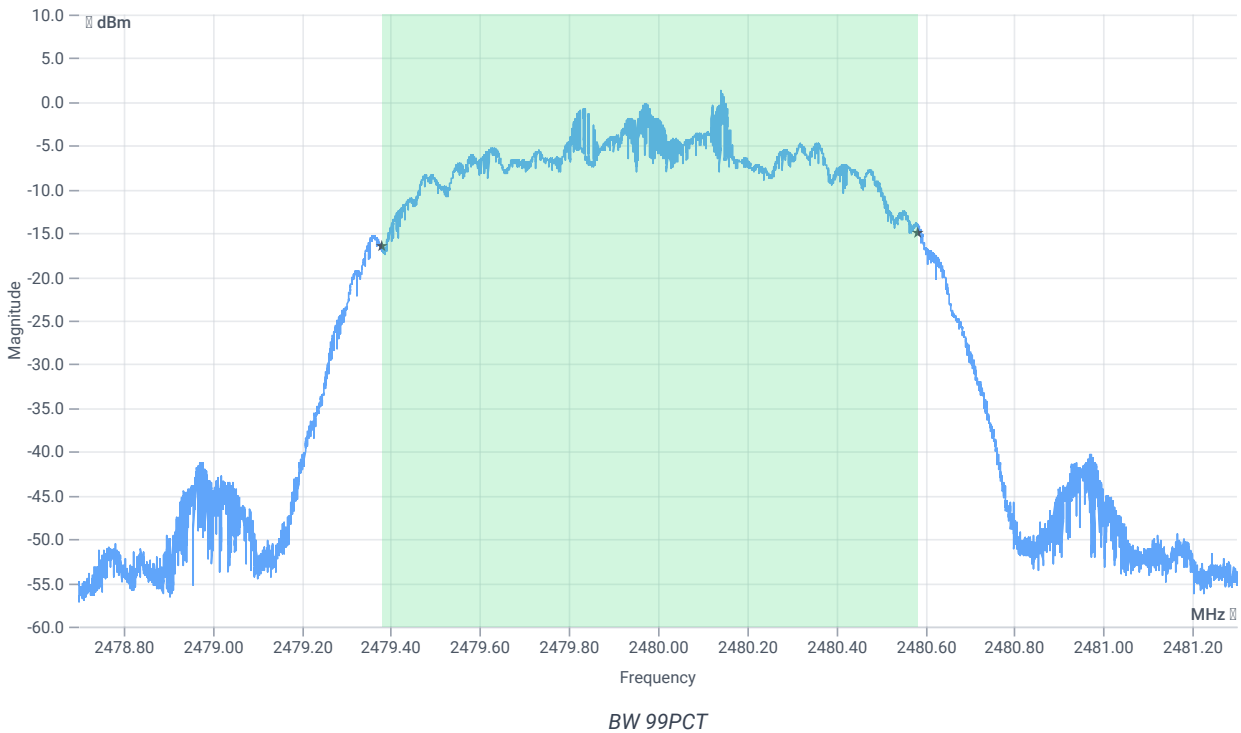
## Test at TX 2480 MHz

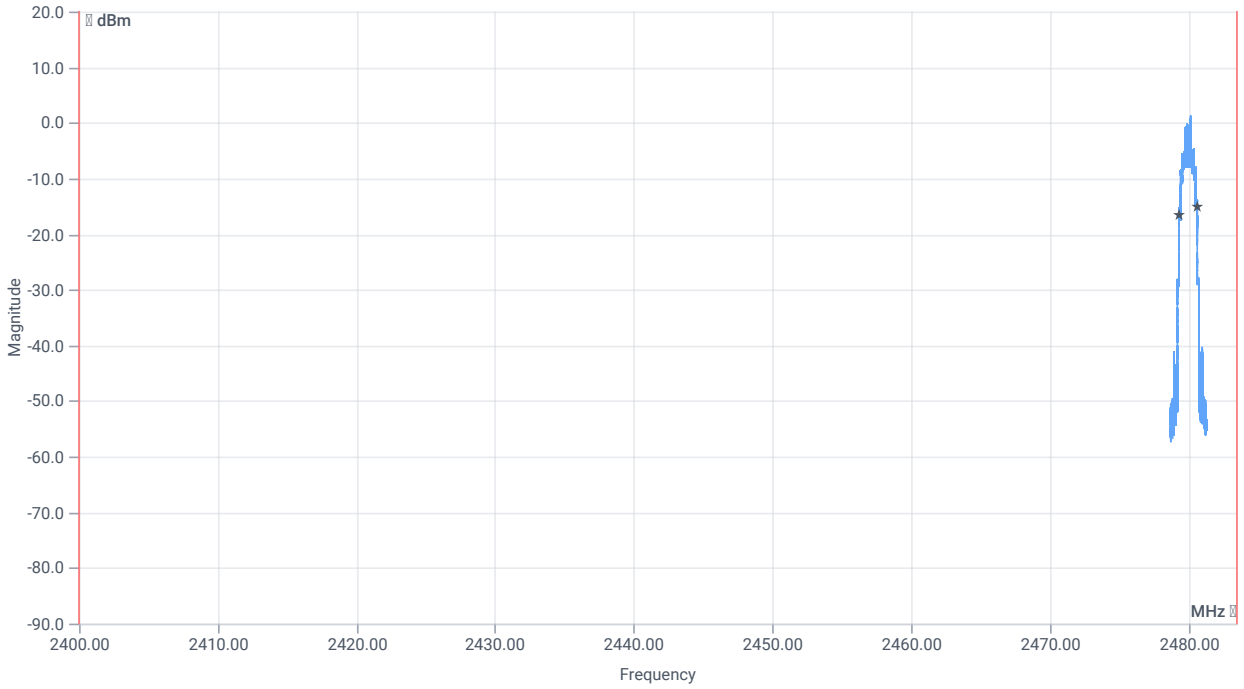
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.19	dBm	INFO
Ref. frequency	--	--	2480.100	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	9.19   9.1   20
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

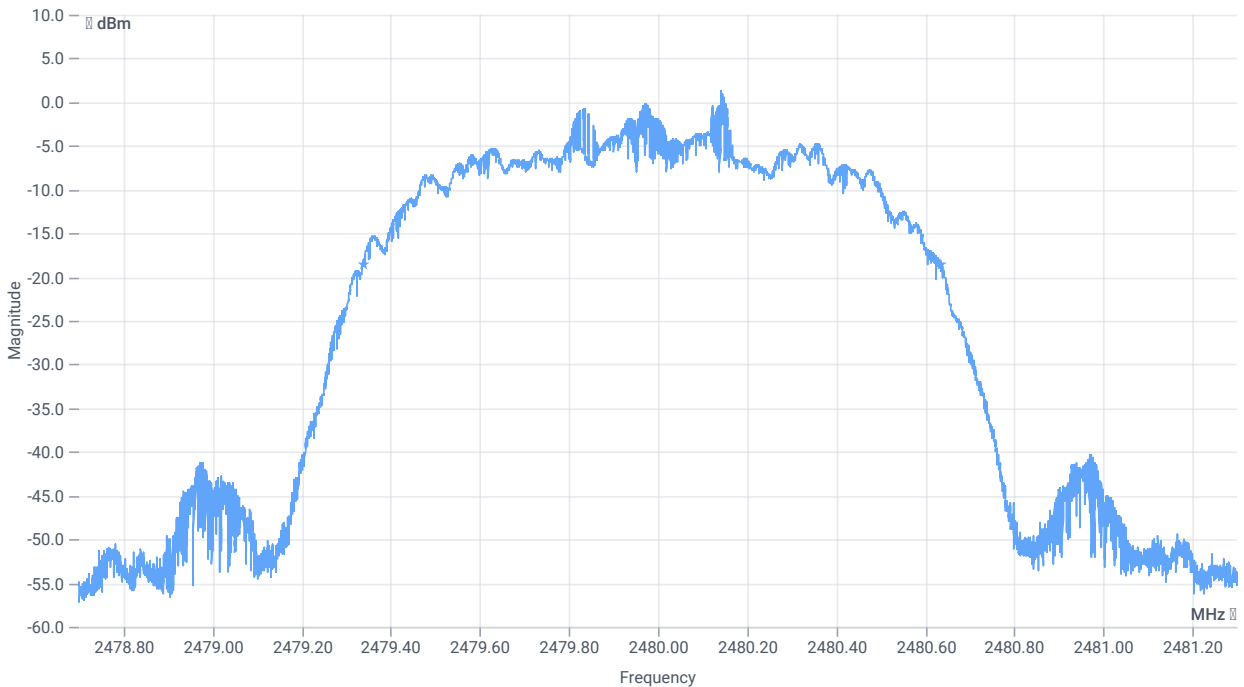




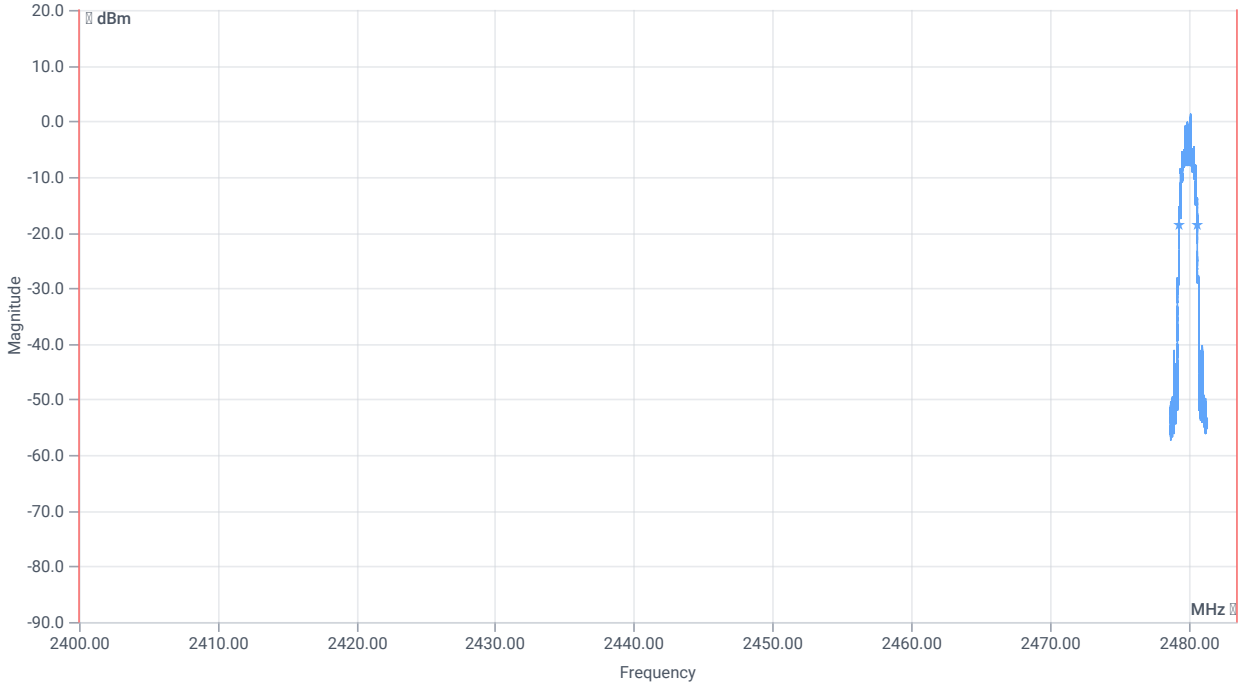
BW within Band 99PCT

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 99%	--	--	1203.000	kHz	INFO
T1 99%	2400.000000	--	2479.3797	MHz	PASS
T2 99%	--	2483.500000	2480.5829	MHz	PASS



BW 20dB



BW within band 20dB

## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 20dB	--	--	1299	kHz	INFO
T1 20dB	2400.000000	--	2479.3370	MHz	PASS
T2 20dB	--	2483.500000	2480.6357	MHz	PASS

Verdict

PASS

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

## References

TC start	29.01.2024 08:07:14
Ambit temp [°C]   humidity [rel%]	21.6   41
System version	5.0.1.0
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	LOOPback
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	4375B100FFE6
Signaling BT Address	BABEBEDADBAD

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

## Test Parameter

Technology to test	BT Classic Basic rate
EUT port	EUT1
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

## Test Parameter

Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

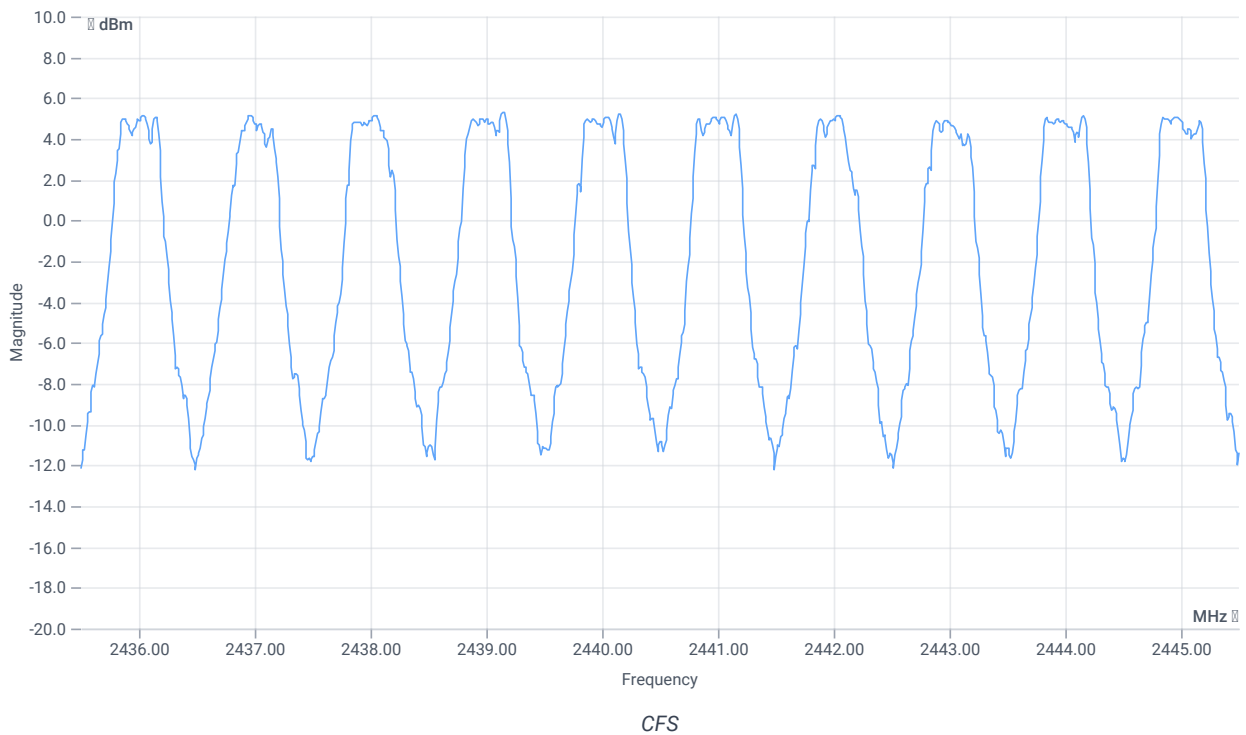
## Test at TX hopping MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	5.57	dBm	INFO
Ref. frequency	--	--	2423.120	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	10.57   9   20
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 # Maximum peak conducted output power FHSS ~ BT Classic Basic rate

### References

TC start	29.01.2024 08:04:57
Ambit temp [°C]   humidity [rel%]	21.2   42
System version	5.0.1.0
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	LOOPback
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	4375B100FFE6
Signaling BT Address	BABEBEDADBAD

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

### Test Parameter

Technology to test	BT Classic Basic rate
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No



## Test Parameter

Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

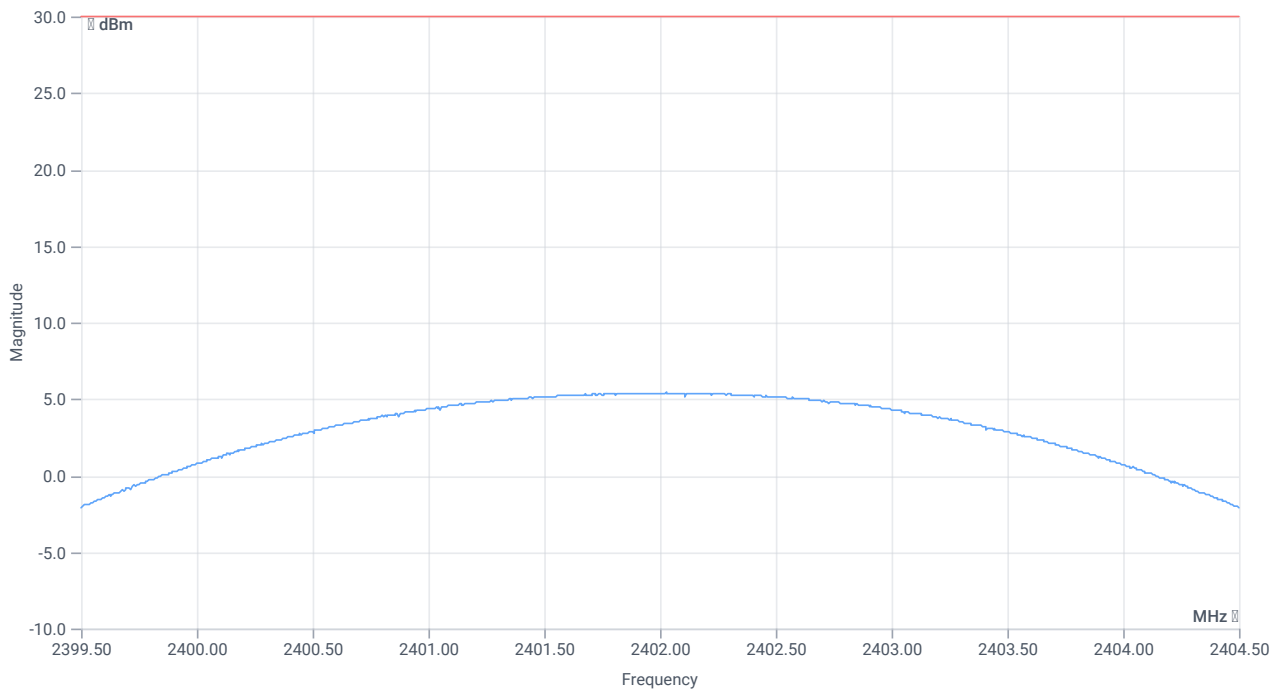
## Test at TX 2402 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	5.15	dBm	INFO
Ref. frequency	--	--	2402.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	15.15   8.96   25
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



Peak output power

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	--	30.00	5.41	dBm	PASS
Peak power	--	1000	3.475362	mW	PASS
Frequency at peak	--	--	2402.025	MHz	INFO

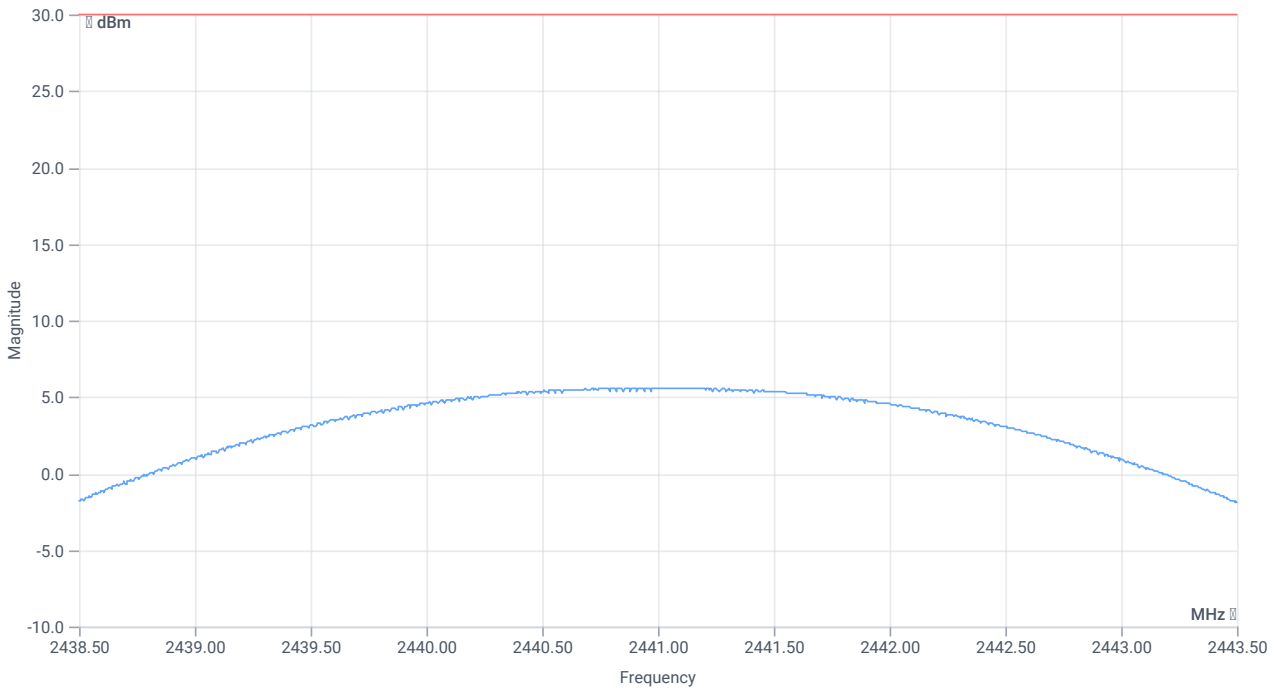
### Test at TX 2441 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	5.31	dBm	INFO
Ref. frequency	--	--	2441.100	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	15.31   9   25
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	5.58	dBm	PASS
Peak power	--	1000	3.614099	mW	PASS
Frequency at peak	--	--	2441.01	MHz	INFO

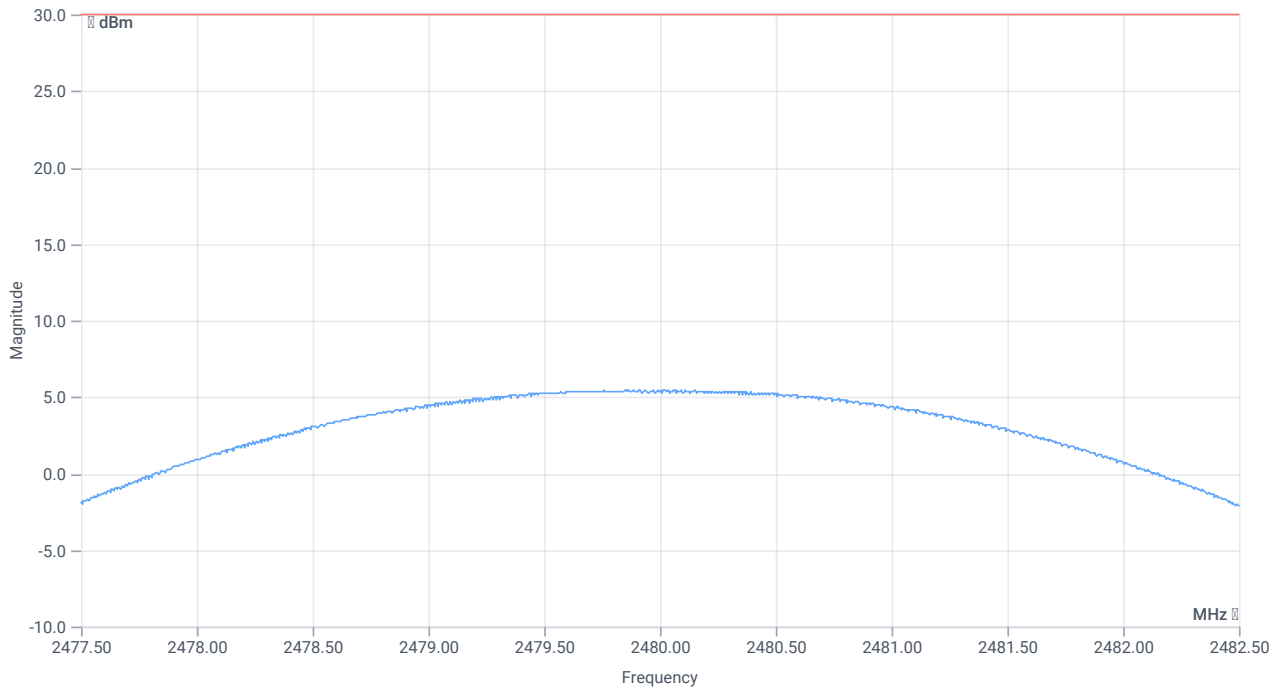
## Test at TX 2480 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	5.10	dBm	INFO
Ref. frequency	--	--	2480.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	15.11   9.1   25
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	5.44	dBm	PASS
Peak power	--	1000	3.499452	mW	PASS
Frequency at peak	--	--	2480.005	MHz	INFO

Verdict

PASS

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

## References

TC start	29.01.2024 08:49:55
Ambit temp [°C]   humidity [rel%]	25.1   31
System version	5.0.1.0
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	LOOPback
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	4375B100FFE6
Signaling BT Address	BABEBEDADBAD

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

## Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No

## Test Parameter

Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

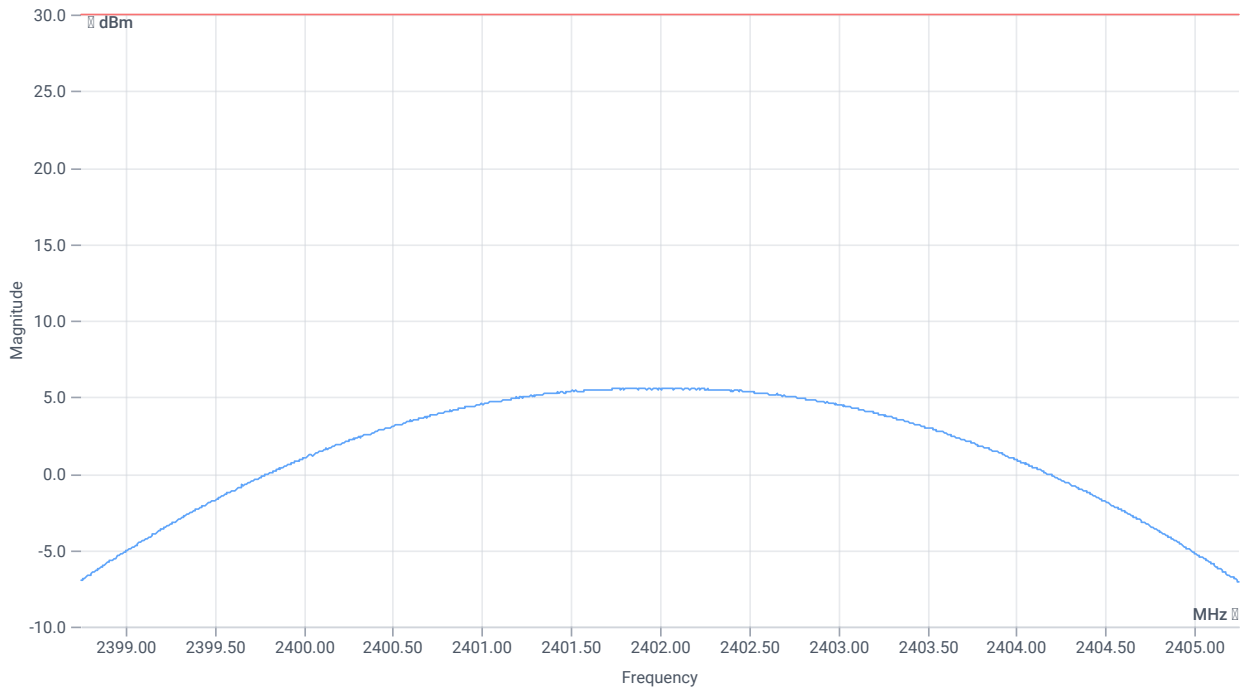
## Test at TX 2402 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.49	dBm	INFO
Ref. frequency	--	--	2402.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	14.49   8.96   25
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



Peak output power

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	--	30.00	5.57	dBm	PASS
Peak power	--	1000	3.605786	mW	PASS
Frequency at peak	--	--	2401.89	MHz	INFO



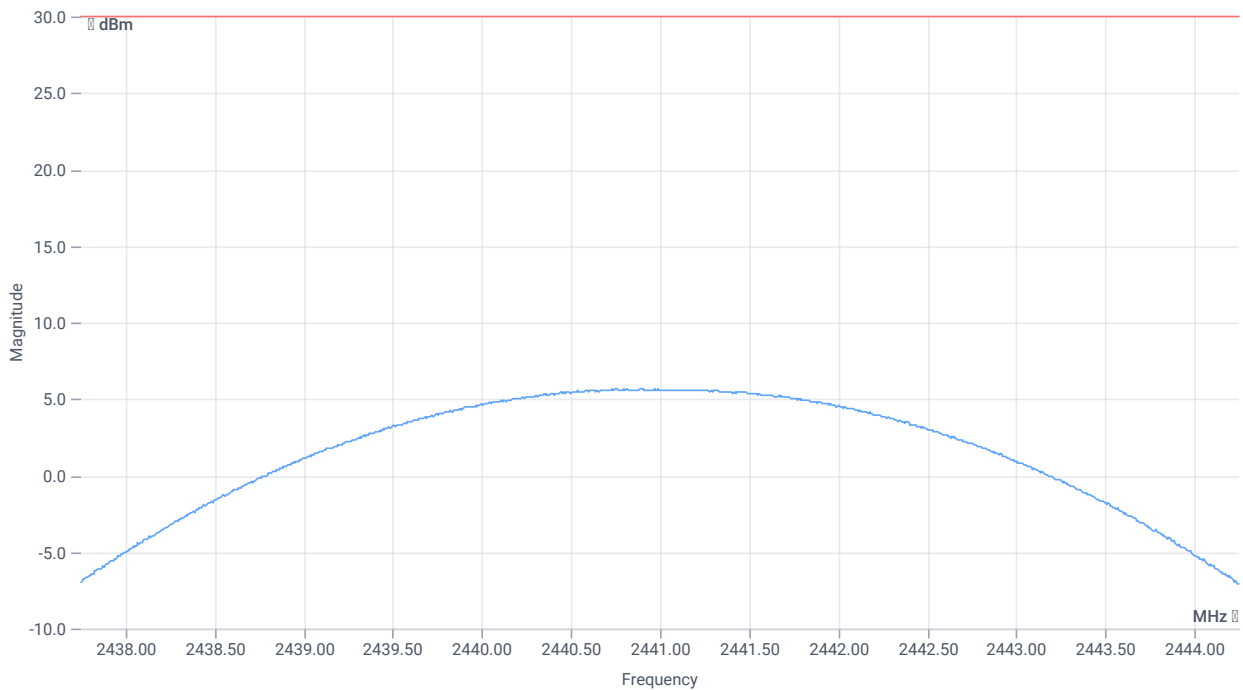
## Test at TX 2441 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.65	dBm	INFO
Ref. frequency	--	--	2441.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	14.65   9   25
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	5.65	dBm	PASS
Peak power	--	1000	3.672823	mW	PASS
Frequency at peak	--	--	2440.903	MHz	INFO

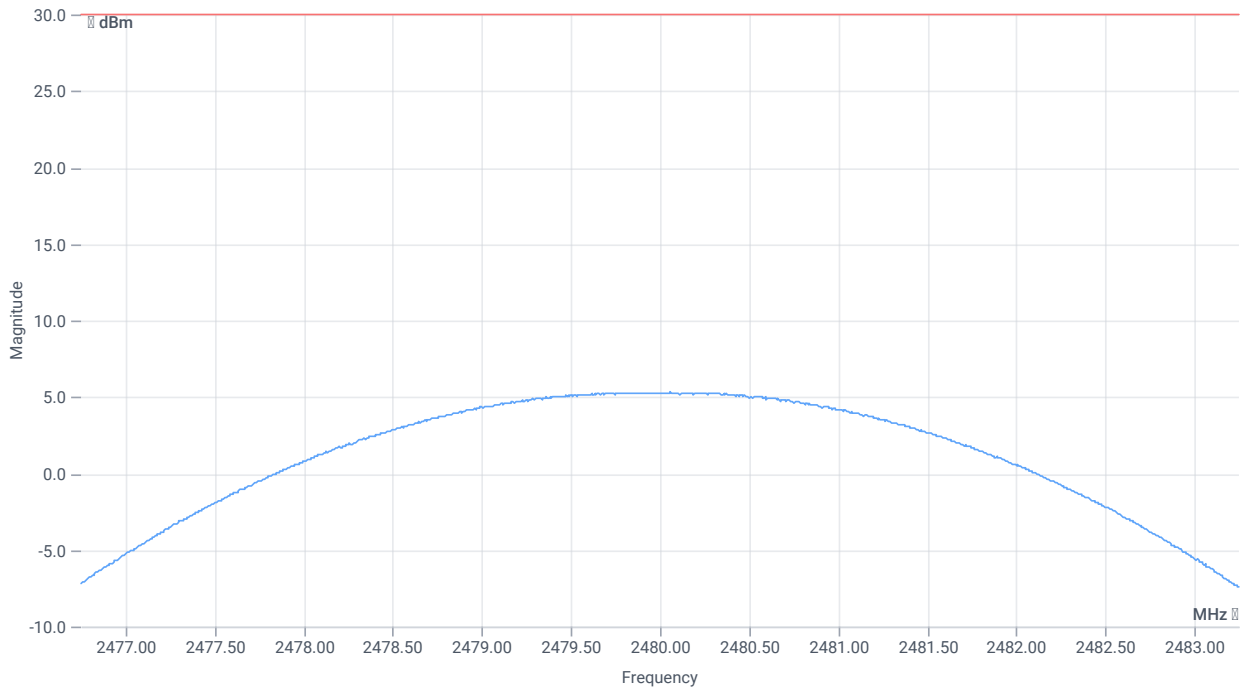
## Test at TX 2480 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.04	dBm	INFO
Ref. frequency	--	--	2479.800	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	14.04   9.1   20
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	5.3	dBm	PASS
Peak power	--	1000	3.388442	mW	PASS
Frequency at peak	--	--	2480.058	MHz	INFO

Verdict

PASS

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

## References

TC start	29.01.2024 08:51:52
Ambit temp [°C]   humidity [rel%]	25.1   30
System version	5.0.1.0
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	LOOPback
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	4375B100FFE6
Signaling BT Address	BABEBEDADBAD

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

## Test Parameter

Technology to test	BT Classic EDR 8DPSK
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No

## Test Parameter

Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

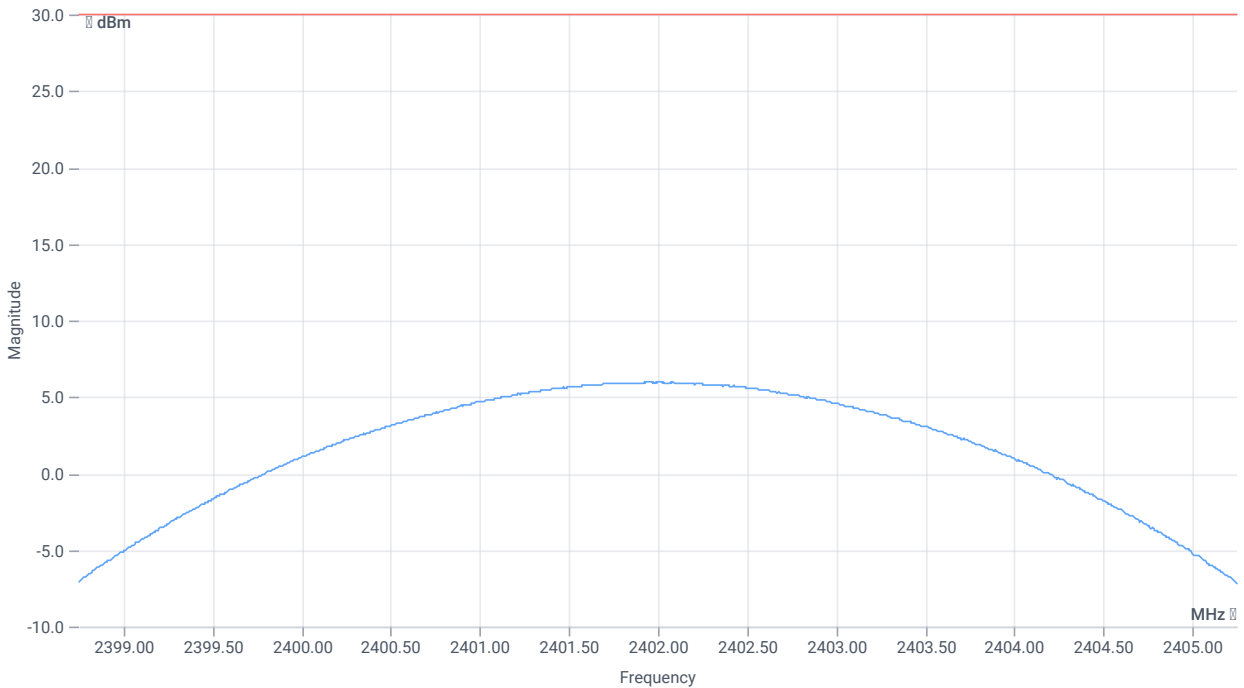
## Test at TX 2402 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	5.02	dBm	INFO
Ref. frequency	--	--	2402.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	15.02   8.96   25
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



Peak output power

### RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	--	30.00	5.98	dBm	PASS
Peak power	--	1000	3.96278	mW	PASS
Frequency at peak	--	--	2401.942	MHz	INFO

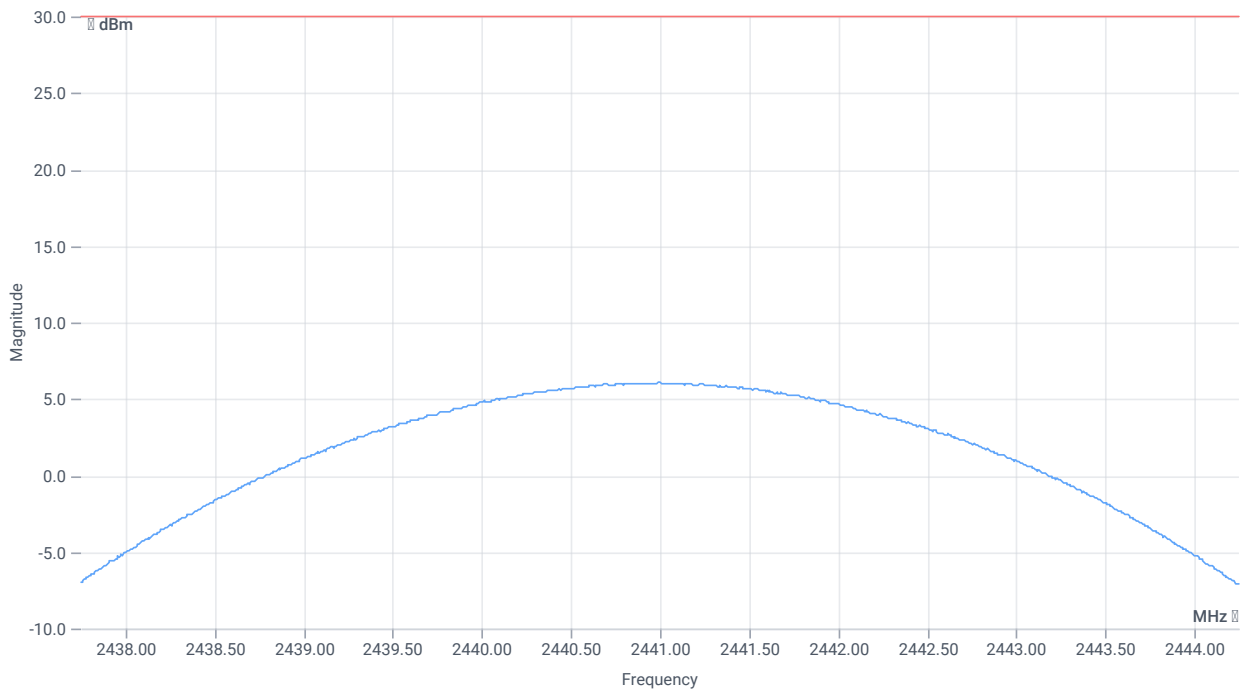
## Test at TX 2441 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.42	dBm	INFO
Ref. frequency	--	--	2441.200	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	14.42   9   25
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	6.07	dBm	PASS
Peak power	--	1000	4.045759	mW	PASS
Frequency at peak	--	--	2440.987	MHz	INFO

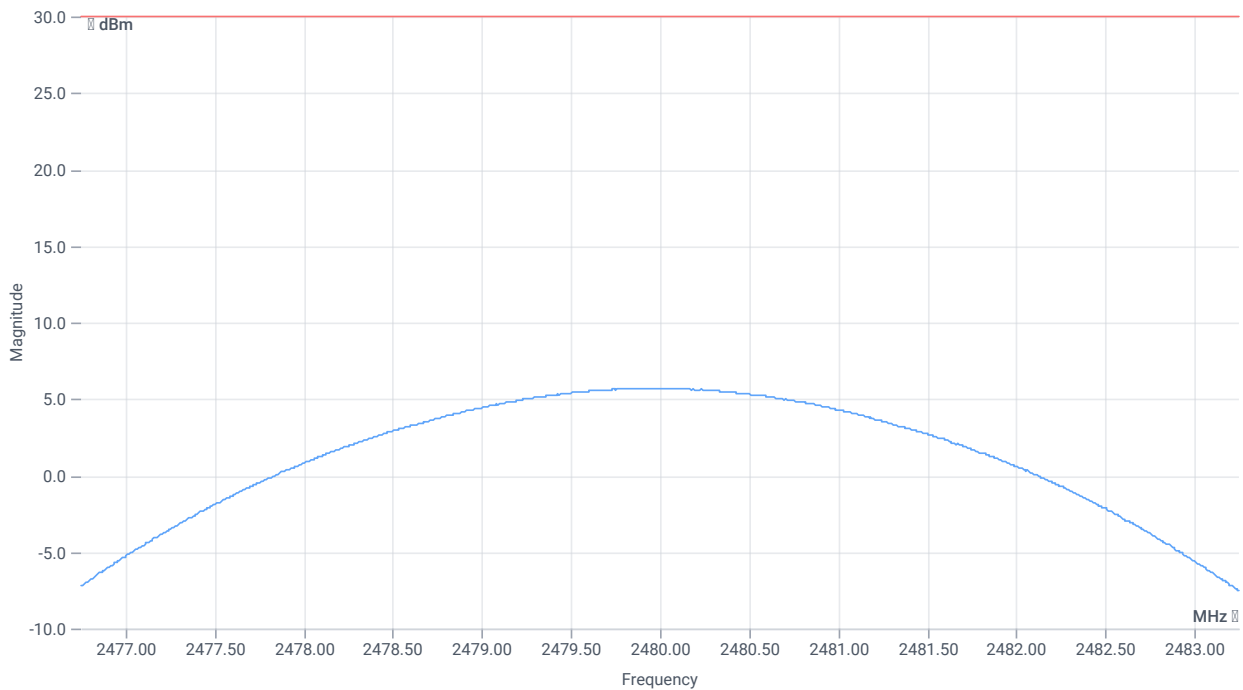
## Test at TX 2480 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	3.96	dBm	INFO
Ref. frequency	--	--	2480.000	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	13.96   9.1   20
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	5.7	dBm	PASS
Peak power	--	1000	3.715352	mW	PASS
Frequency at peak	--	--	2480.006	MHz	INFO



Verdict

PASS

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

## References

TC start	29.01.2024 08:06:23
Ambit temp [°C]   humidity [rel%]	21.4   42
System version	5.0.1.0
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	LOOPback
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	4375B100FFE6
Signaling BT Address	BABEBEDADBAD

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

## Test Parameter

Technology to test	BT Classic Basic rate
EUT port	EUT1
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

## Test Parameter

Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

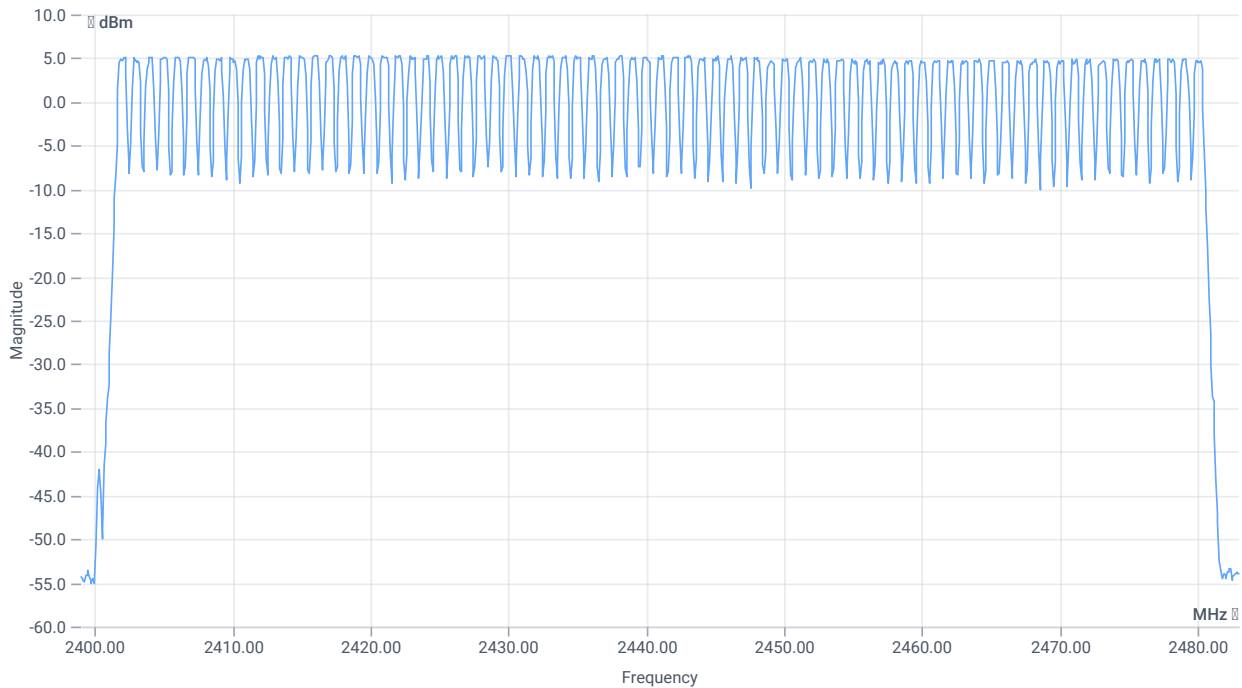
## Test at TX hopping MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	5.59	dBm	INFO
Ref. frequency	--	--	2417.920	MHz	INFO

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	10.59   9   20
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)	--	--	2479	MHz	INFO

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Hopp channel (rounded)	--	--	2480	MHz	INFO
$\Sigma$ Hopping channels	15	--	79	Number	PASS

Verdict

PASS



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

### References

TC start	29.01.2024 08:11:05
Ambit temp [°C]   humidity [rel%]	22.0   40
System version	5.0.1.0
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	LOOPback
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	4375B100FFE6
Signaling BT Address	BABEBEDADBAD

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

### Test Parameter

Technology to test	BT Classic Basic rate
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	0.7

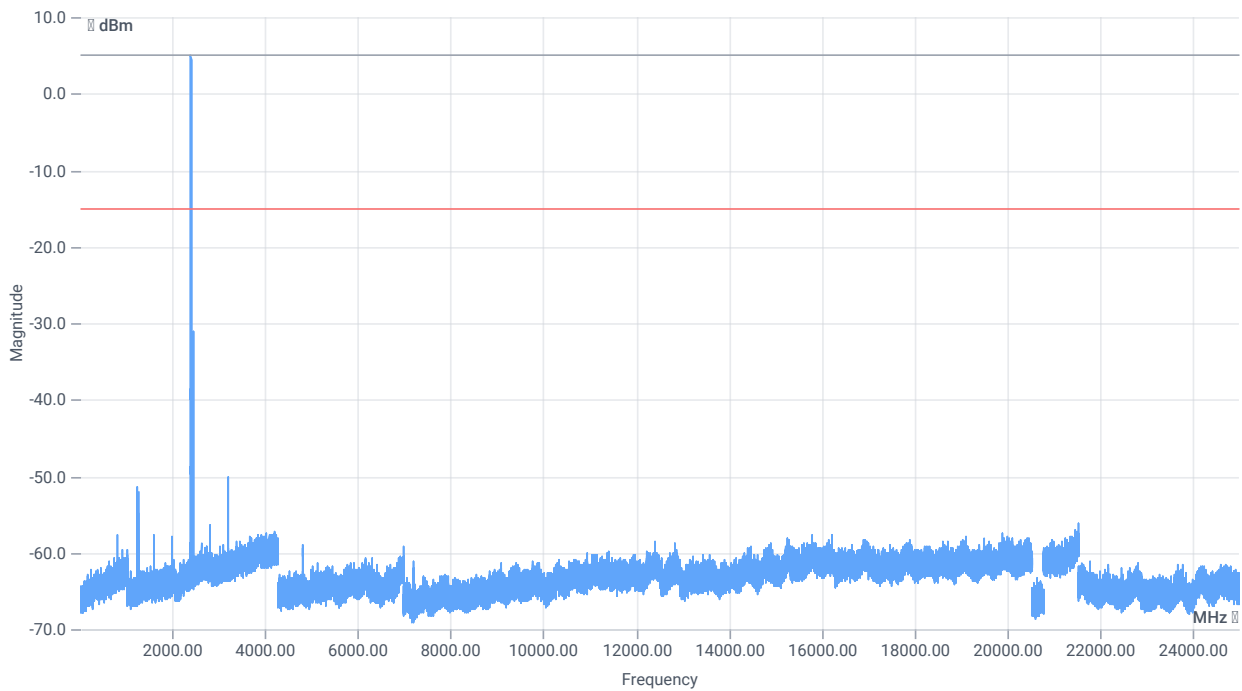
## Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

## Test at TX 2402 MHz

RESULT: Reference power cond.

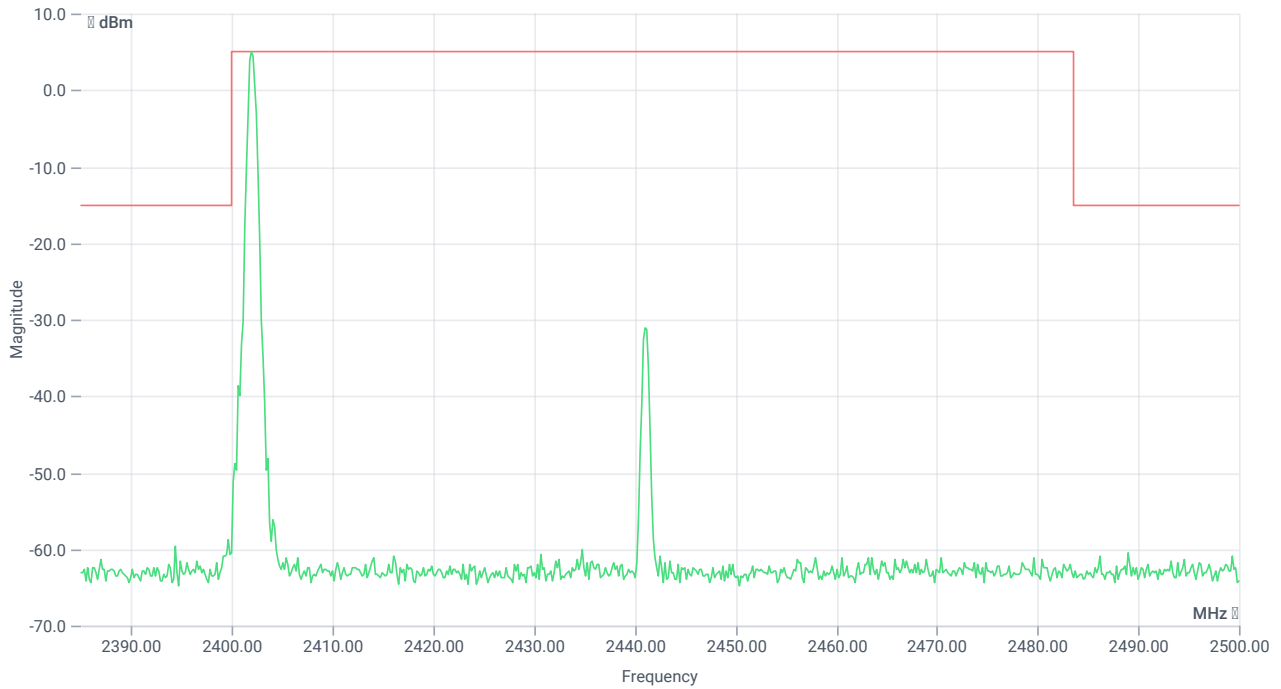
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.97	dBm	INFO
Ref. frequency	--	--	2402.100	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	4.97   15.92   5
Start [MHz]   Stop [MHz]	24780.000   25000.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   1501   SWE



TX emissions band zoomed

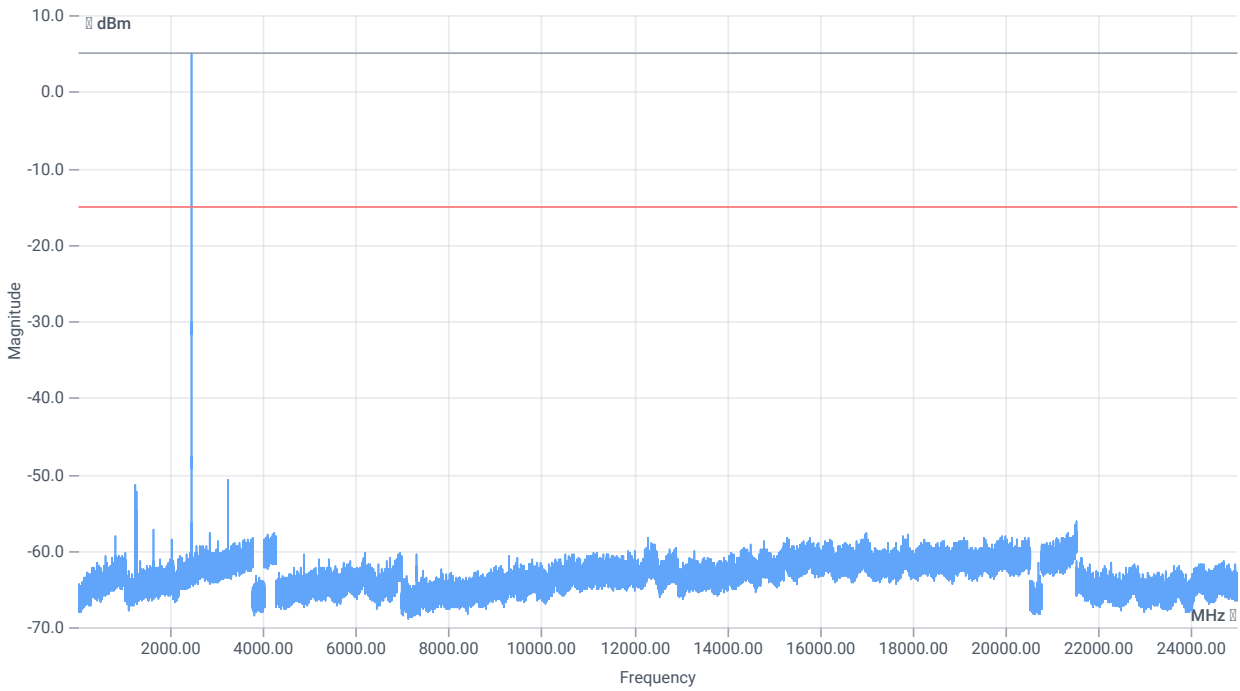
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2402.00 MHz	--	--	4.98	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 3202.667 MHz	0	--	35.13	dB	INFO

## Test at TX 2441 MHz

RESULT: Reference power cond.

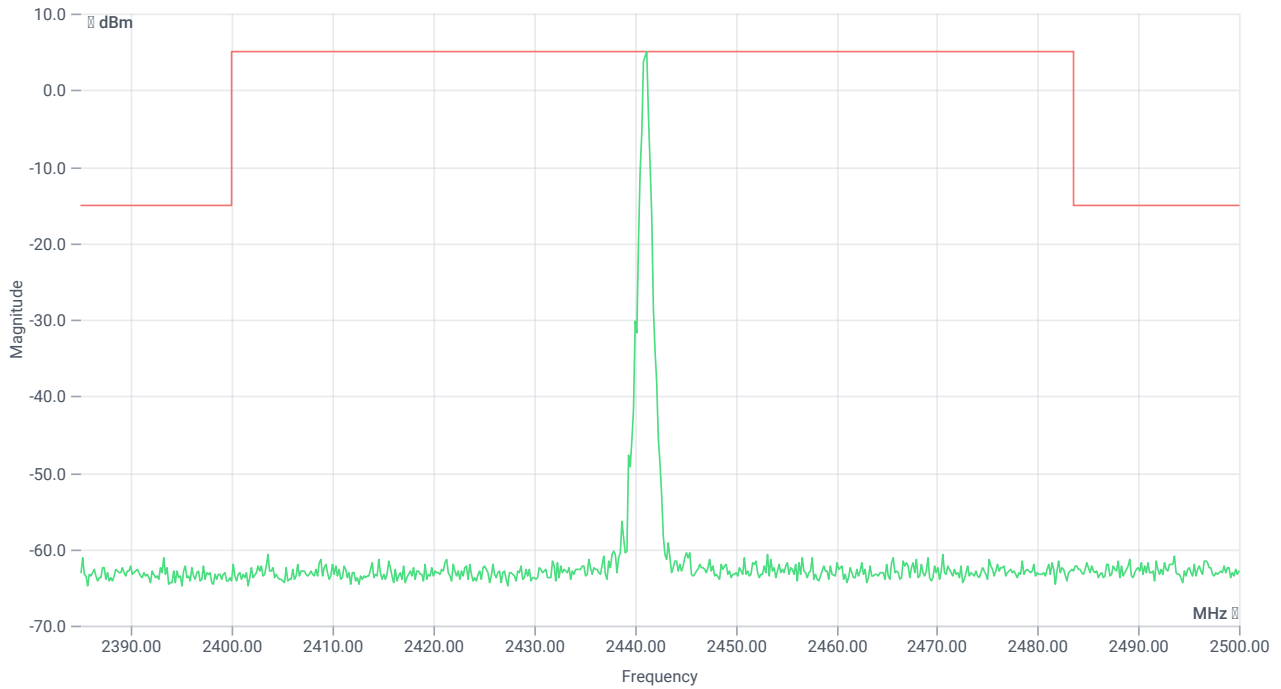
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.94	dBm	INFO
Ref. frequency	--	--	2441.100	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	4.94   15.92   5
Start [MHz]   Stop [MHz]	24780.000   25000.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   1501   SWE



TX emissions band zoomed

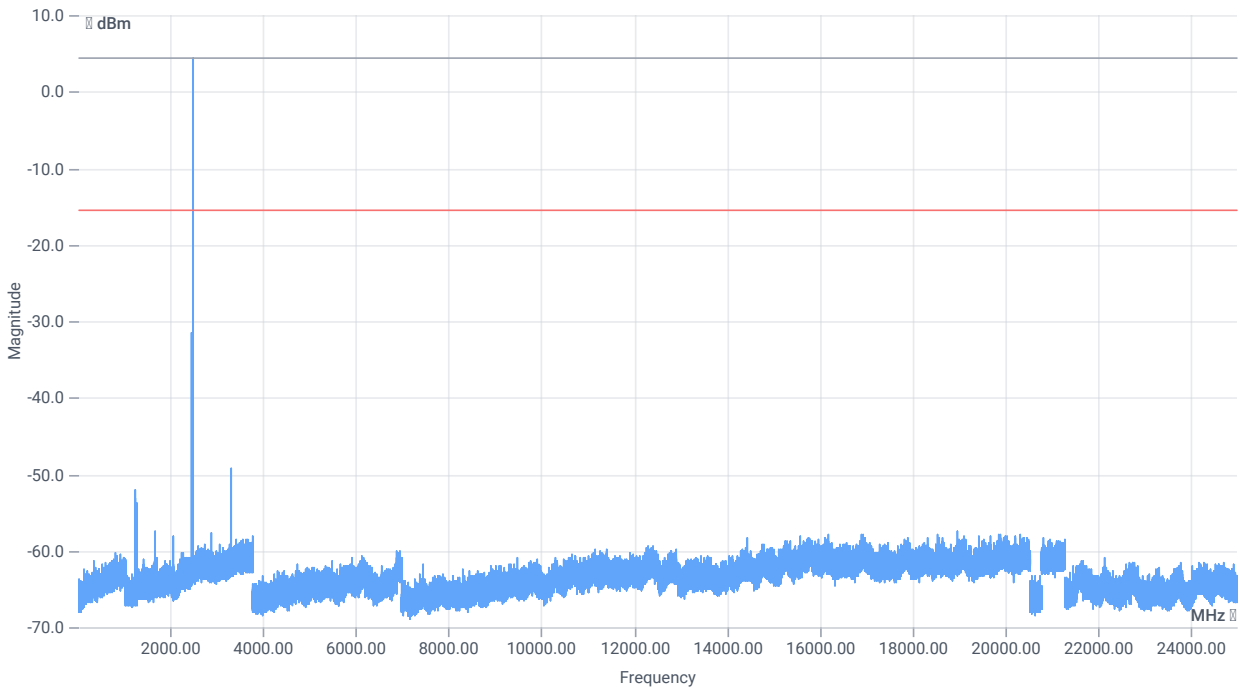
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2441.17 MHz	--	--	4.97	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 3254.667 MHz	0	--	35.73	dB	INFO

## Test at TX 2480 MHz

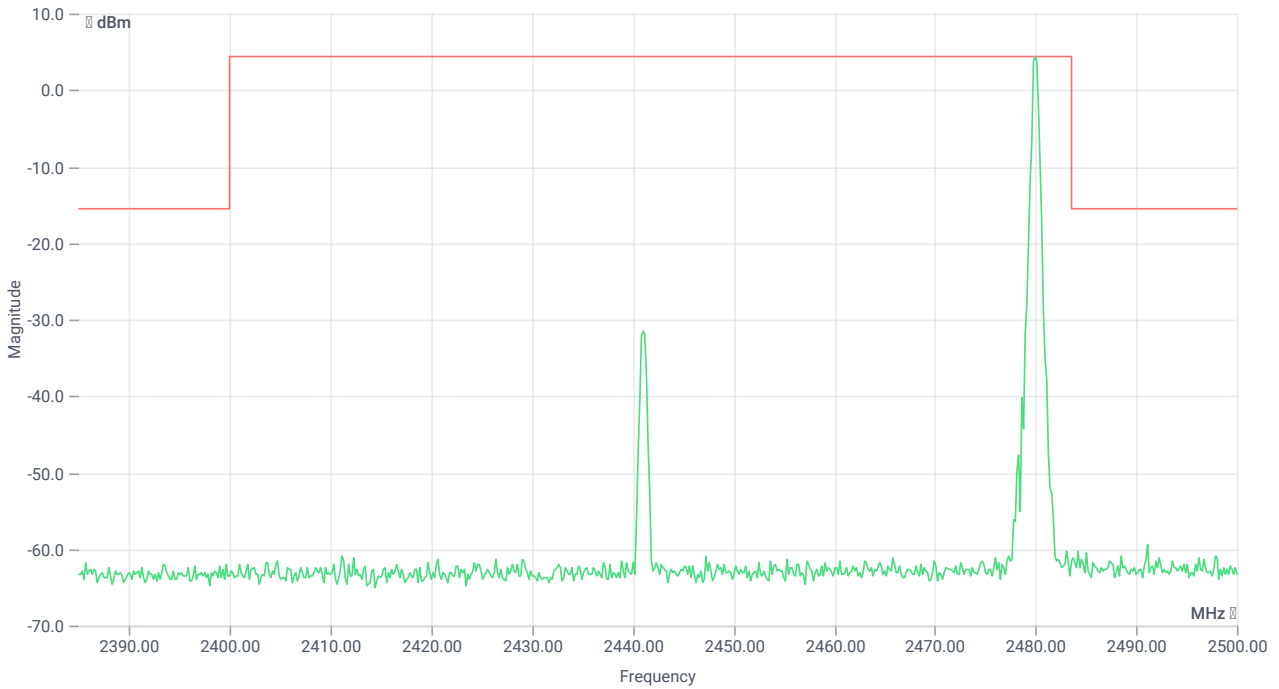
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.69	dBm	INFO
Ref. frequency	--	--	2480.100	MHz	INFO



### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	4.69   15.92   5
Start [MHz]   Stop [MHz]	24780.000   25000.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   1501   SWE



TX emissions band zoomed

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2480.00 MHz	--	--	4.47	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 3306.5 MHz	0	--	33.68	dB	INFO

Verdict

PASS



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

## References

TC start	29.01.2024 09:56:59
Ambit temp [°C]   humidity [rel%]	25.6   28
System version	5.0.1.0
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	LOOPback
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	4375B100FFE6
Signaling BT Address	BABEBEDADBAD

## Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

## Test Parameter

Technology to test	BT Classic EDR Pi/4DQPSK
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No

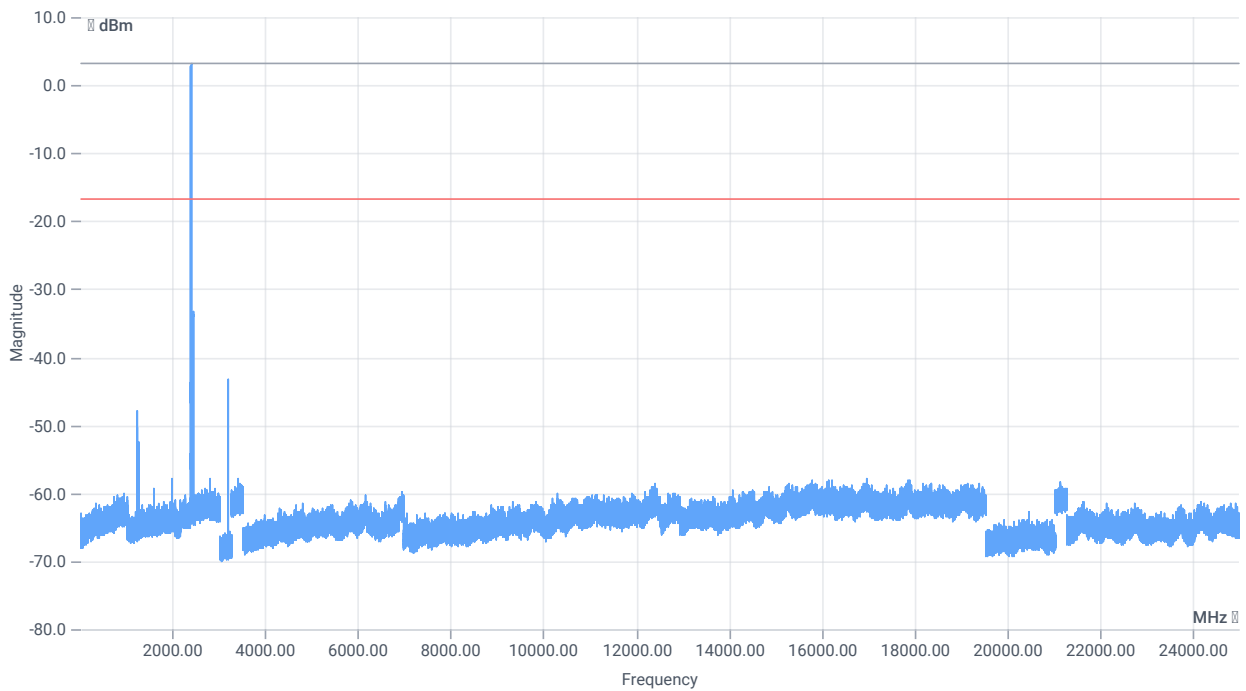
## Test Parameter

Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

## Test at TX 2402 MHz

RESULT: Reference power cond.

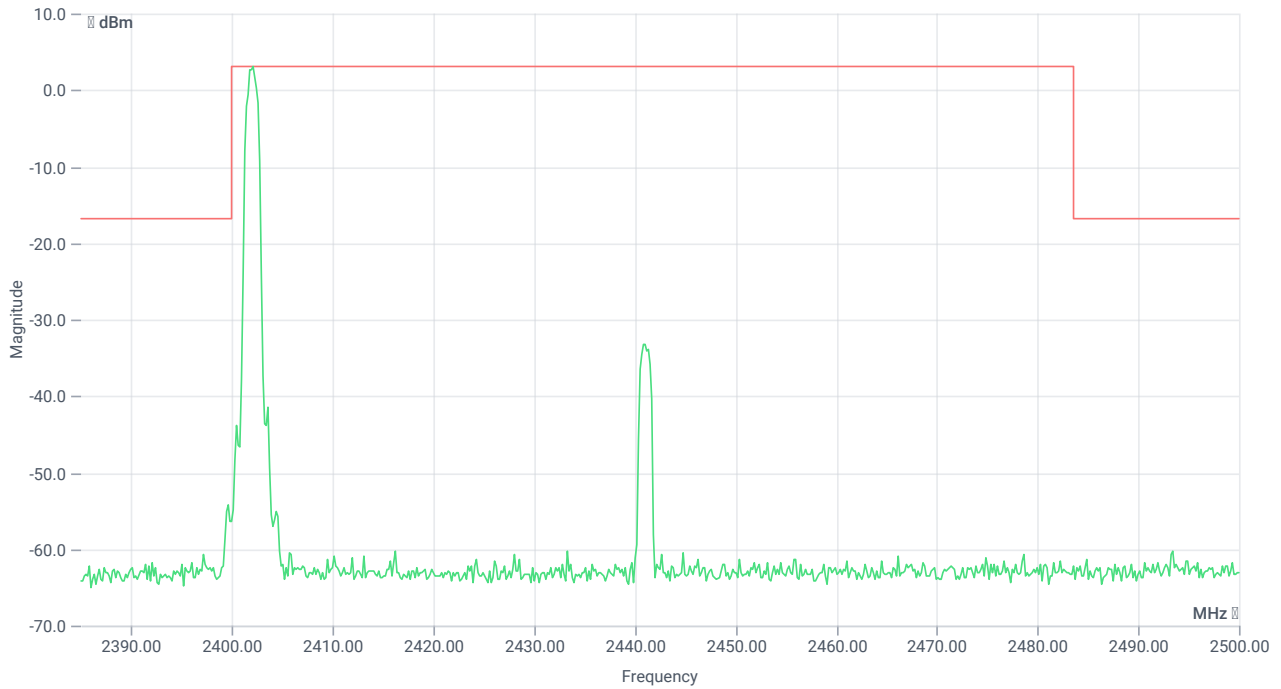
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.39	dBm	INFO
Ref. frequency	--	--	2402.200	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	4.39   15.92   5
Start [MHz]   Stop [MHz]	24780.000   25000.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   1501   SWE



TX emissions band zoomed

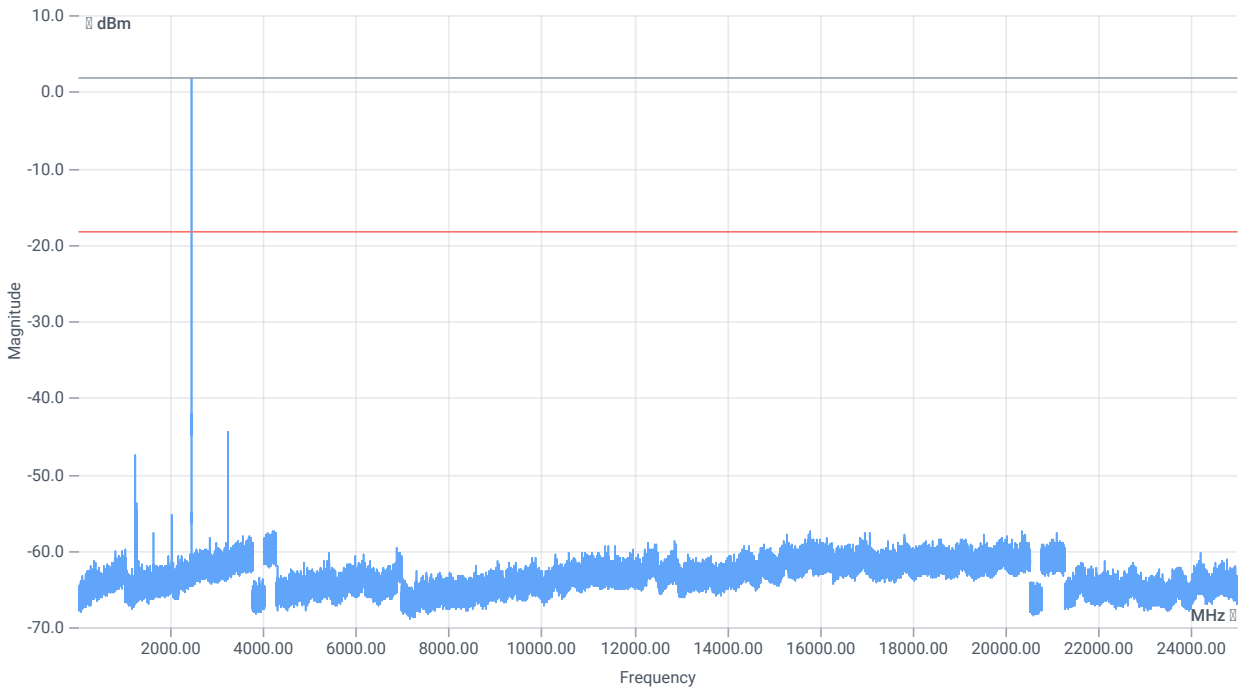
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2402.17 MHz	--	--	3.15	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 3202.667 MHz	0	--	26.5	dB	INFO

## Test at TX 2441 MHz

RESULT: Reference power cond.

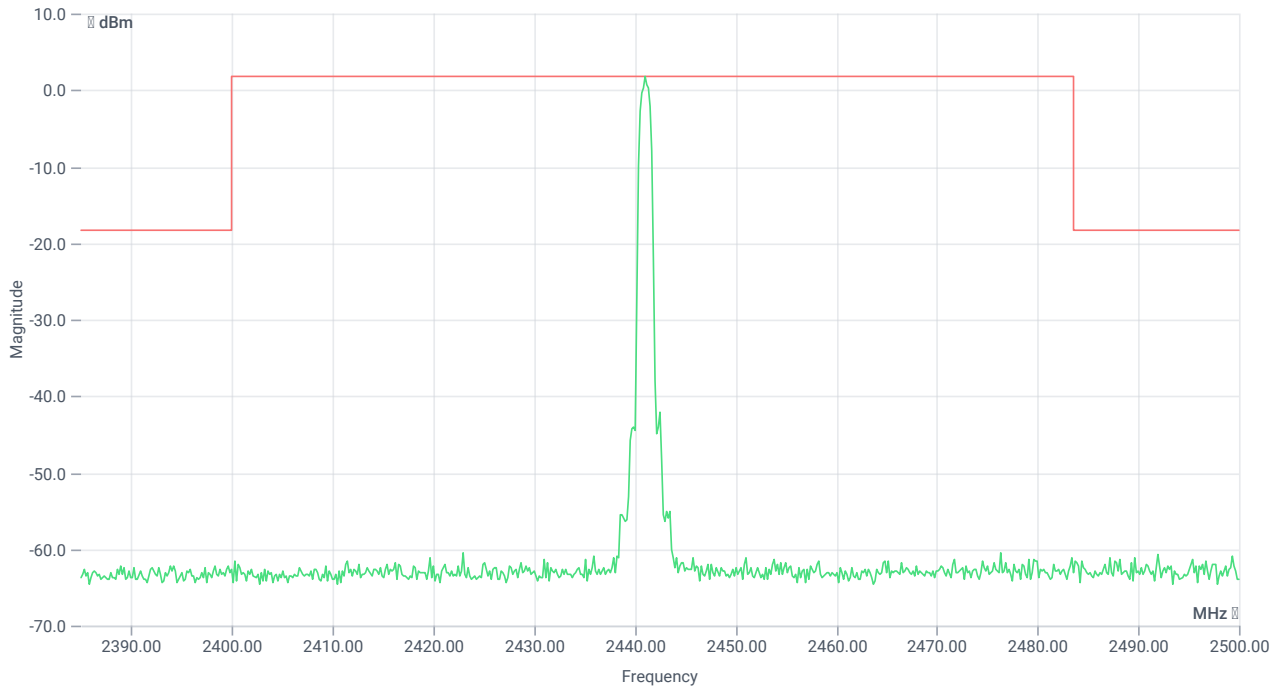
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.77	dBm	INFO
Ref. frequency	--	--	2441.100	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	4.77   15.92   5
Start [MHz]   Stop [MHz]	24780.000   25000.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   1501   SWE



TX emissions band zoomed

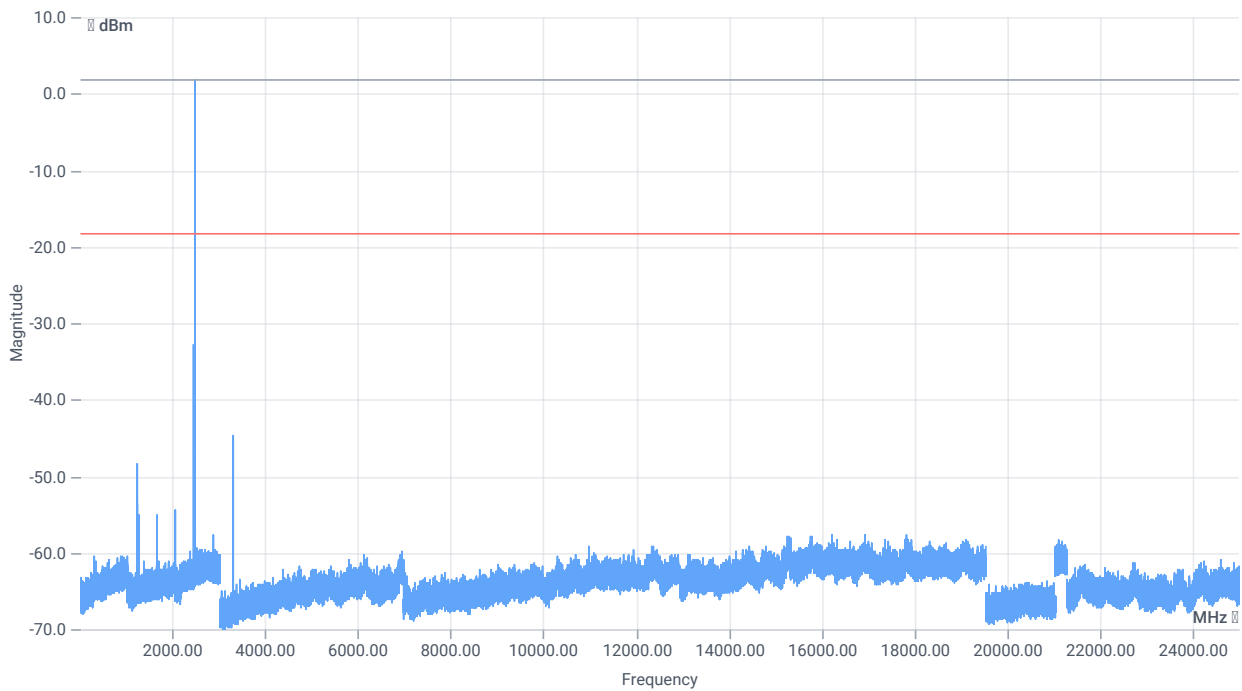
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2441.00 MHz	--	--	1.70	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 3254.667 MHz	0	--	26.09	dB	INFO

## Test at TX 2480 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.33	dBm	INFO
Ref. frequency	--	--	2480.000	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	4.33   15.92   5
Start [MHz]   Stop [MHz]	24780.000   25000.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   1501   SWE



TX emissions band zoomed

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2480.00 MHz	--	--	1.75	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 3306.5 MHz	0	--	26.55	dB	INFO

Verdict

PASS



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

### References

TC start	29.01.2024 08:55:10
Ambit temp [°C]   humidity [rel%]	25.1   30
System version	5.0.1.0
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	LOOPback
Perform Inquiry	Yes
EUT BT Address (if Inquiry No)	4375B100FFE6
Signaling BT Address	BABEBEDADBAD

### Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

### Test Parameter

Technology to test	BT Classic EDR 8DPSK
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True   Freq [MHz] 2402
Frequency mid to test	True   Freq [MHz] 2441
Frequency high to test	True   Freq [MHz] 2480
Auto control enabled power supply   Climatic Box	No   No
Additional path loss [dB]	0.7

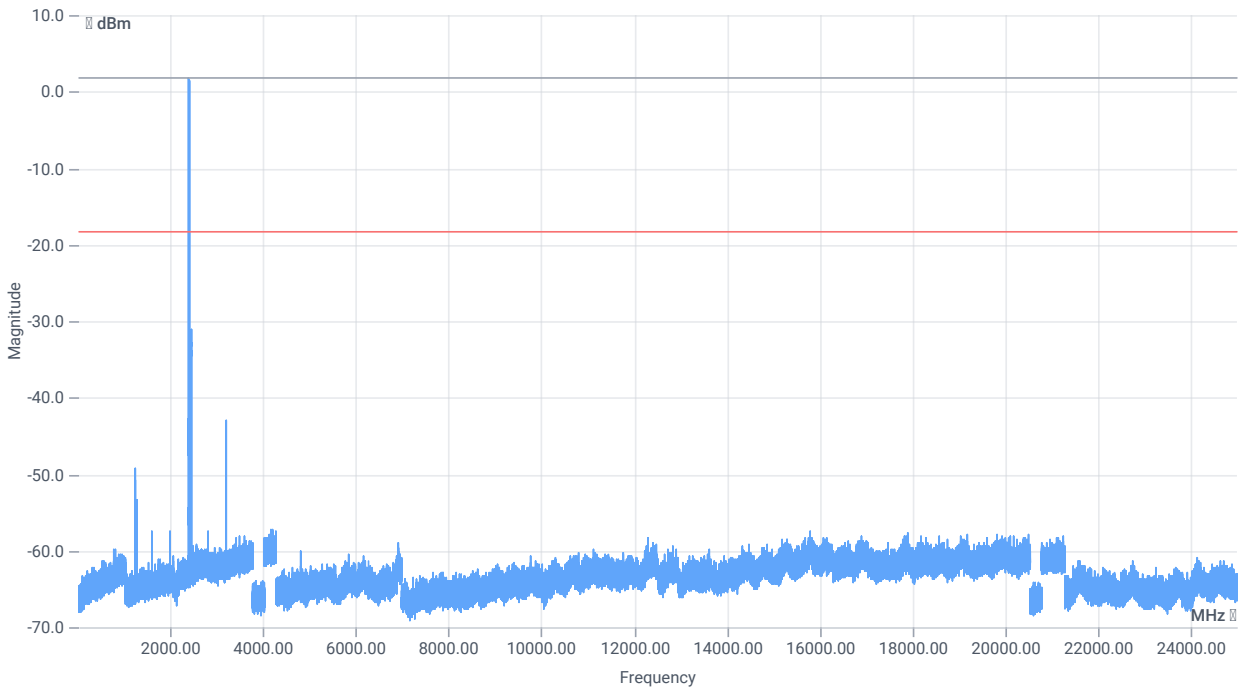
## Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

## Test at TX 2402 MHz

RESULT: Reference power cond.

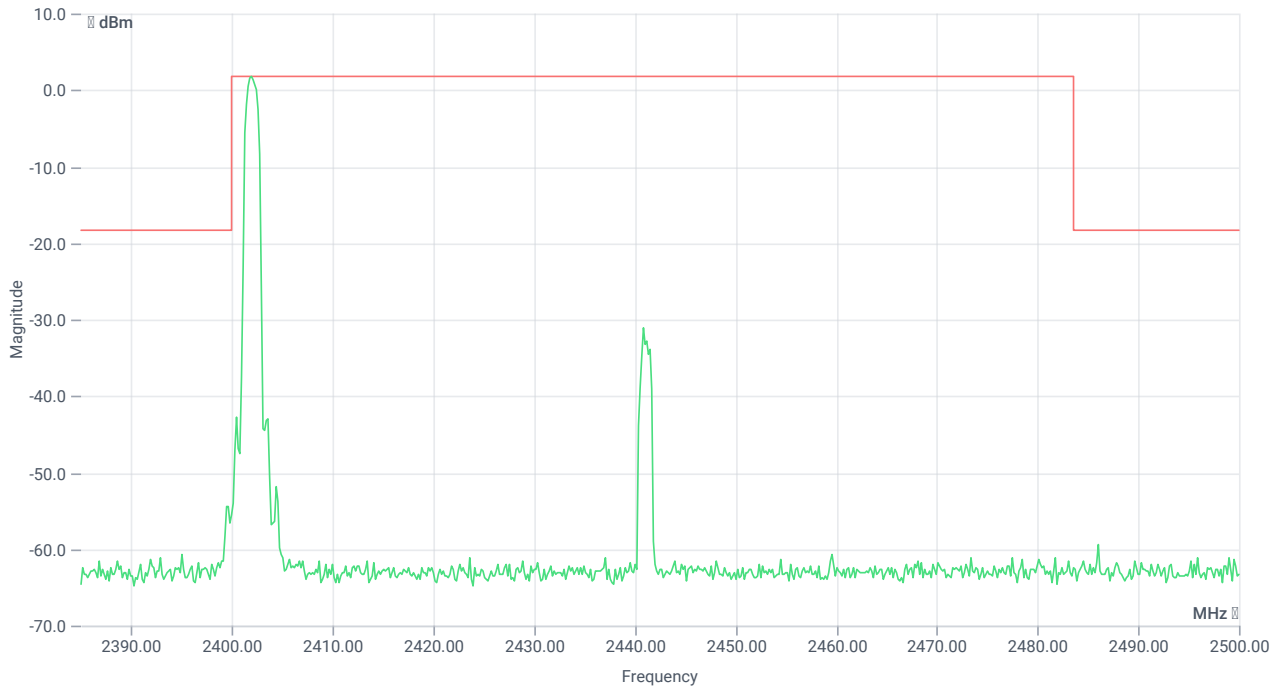
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.78	dBm	INFO
Ref. frequency	--	--	2402.000	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	4.78   15.92   5
Start [MHz]   Stop [MHz]	24780.000   25000.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   1501   SWE



TX emissions band zoomed

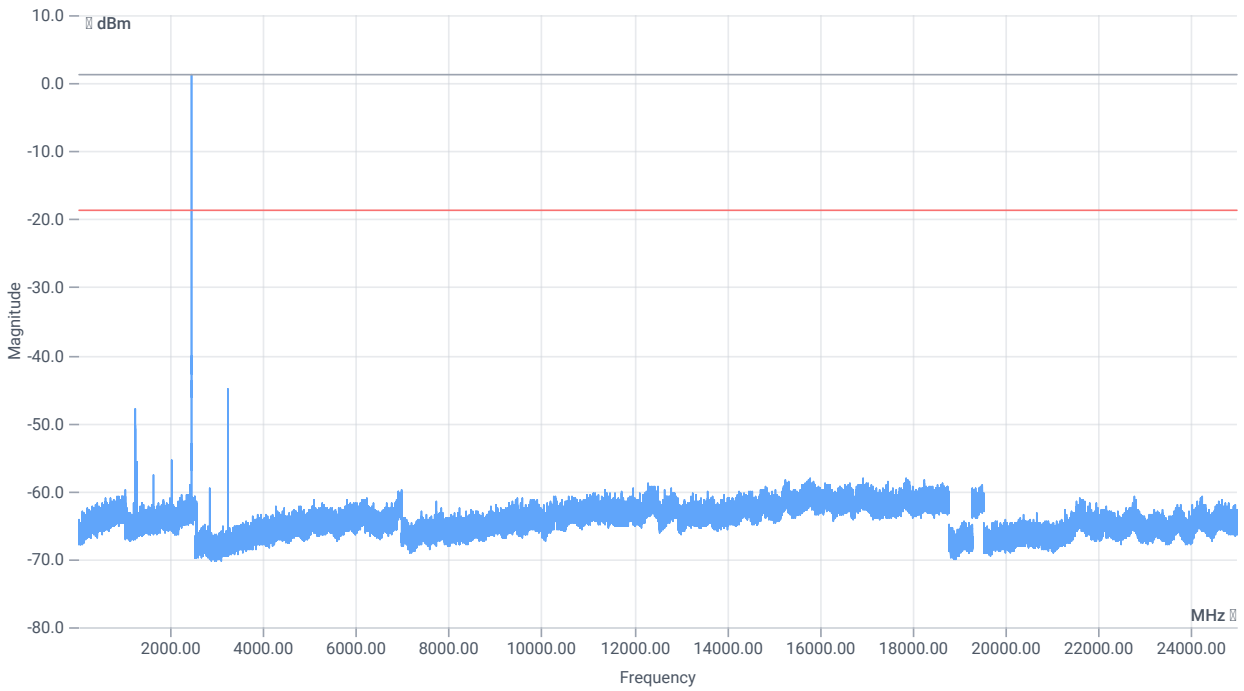
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2402.00 MHz	--	--	1.73	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 3202.667 MHz	0	--	24.61	dB	INFO

## Test at TX 2441 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.18	dBm	INFO
Ref. frequency	--	--	2441.100	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	4.18   15.92   5
Start [MHz]   Stop [MHz]	24780.000   25000.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   1501   SWE



TX emissions band zoomed

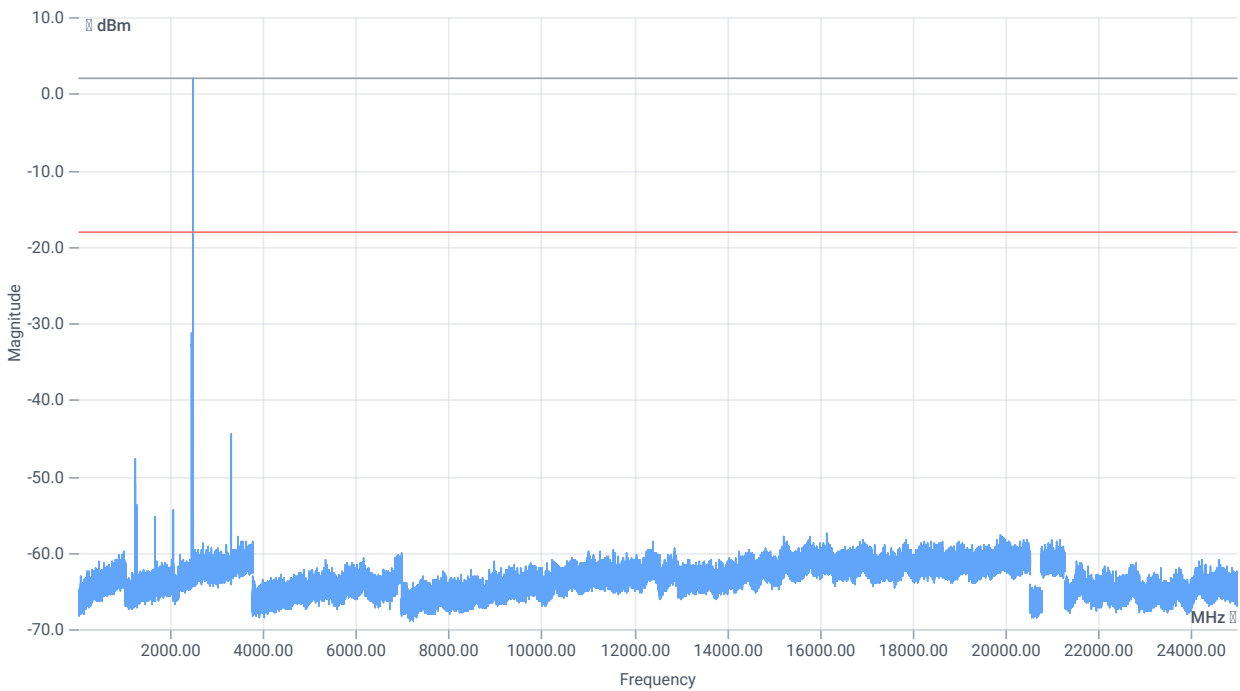
## RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2441.00 MHz	--	--	1.32	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 3254.667 MHz	0	--	26.41	dB	INFO

## Test at TX 2480 MHz

RESULT: Reference power cond.

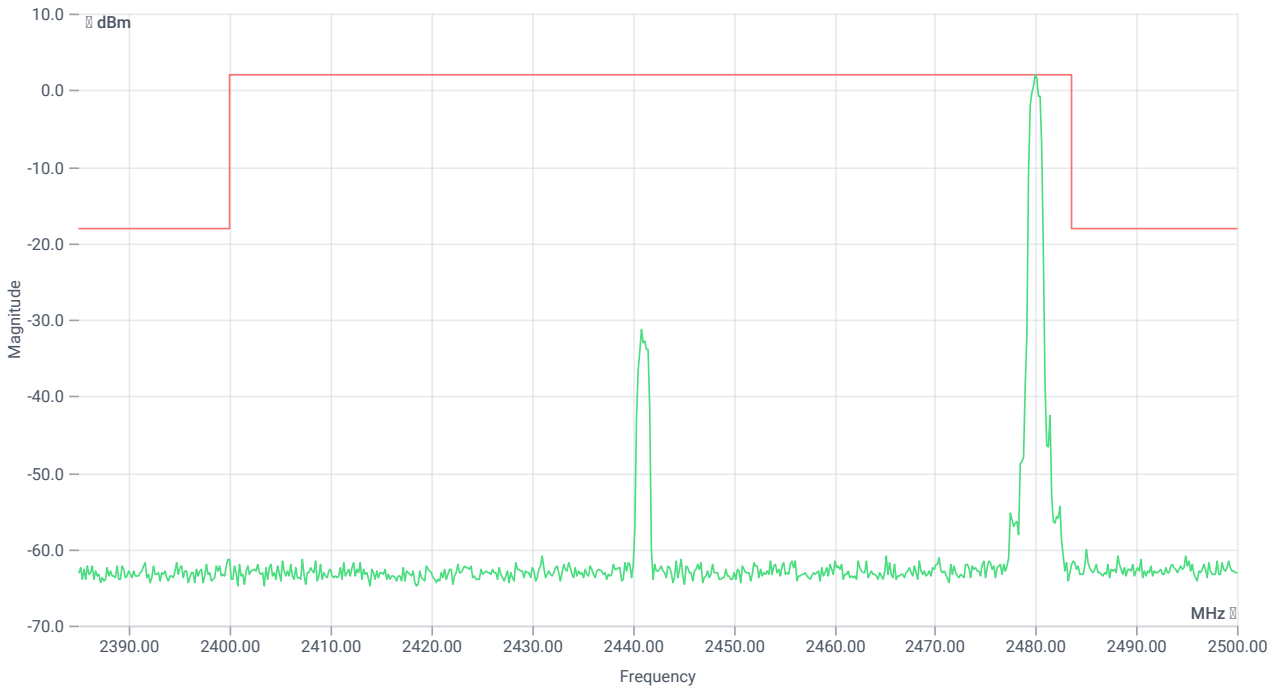
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.70	dBm	INFO
Ref. frequency	--	--	2479.800	MHz	INFO



TX emissions

### READ SA SETTINGS:

RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]	4.70   15.92   5
Start [MHz]   Stop [MHz]	24780.000   25000.000
RBW [MHz]   VBW [MHz]	0.100000   0.300000
Detector   TraceMode	POS   MAXH
Sweep: time [ms]   count   points per Section   type	200   25   1501   SWE



TX emissions band zoomed

**RESULT**

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Reference @ 2480.00 MHz	--	--	1.94	dBm	INFO
No peaks detected	--	--			PASS
Lowest margin to limit 3306.667 MHz	0	--	26.47	dB	INFO

Verdict

PASS

- END OF DOCUMENT -