Measurement Results

No.1-3977/22-02-17_Annex_MR_A1

Test logging

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Test/s performed:

cn=Andreas Luckenbill, o=CTC advanced GmbH, ou=LUC-180217, email=andreas.luckenbill@ctcadvanced.com, c=DE
2022.07.28 17:42:35 +02'00'

Andreas Luckenbill
Head of Department
Radio Communications

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EUT Information

EUT DEFINITION	
Manufacturer	Sagemcom Broadband SAS
Type	Fast 5688W
Serial Number	DM2205259000045
Setup Number	1.0
Version SW	SG520TMDAR01A04M4G_BETA_20220524A_01.001.01.001
Version FW	SG520TMDAR01A04M4G_BETA_20220524A_01.001.01.001
Version HW	V1.0
Comment 1	
Comment 2	
Temperature [°C] Min	0
Temperature [°C] Nom	20
Temperature [°C] Max	50
Voltage [V] Min	102
Voltage [V] Nom	120
Voltage [V] Max	138

FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30

Test References	
TC Start	01.07.2022 09:07:51
Ambit Temp [°C] | Humidity [rel%]	22.2 | 50
System Version	3.2.0.2
Test Specification	FCC, ISED -
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Block edge conducted - NR Band_41
Add. Information	

Test Parameter	
Technology to test	NR
Band	Band_41
SCS [kHz]	30
Waveform	CPOFDM
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False
Frequency mid to test	False
Frequency high to test	True
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	0
Switched Path	None

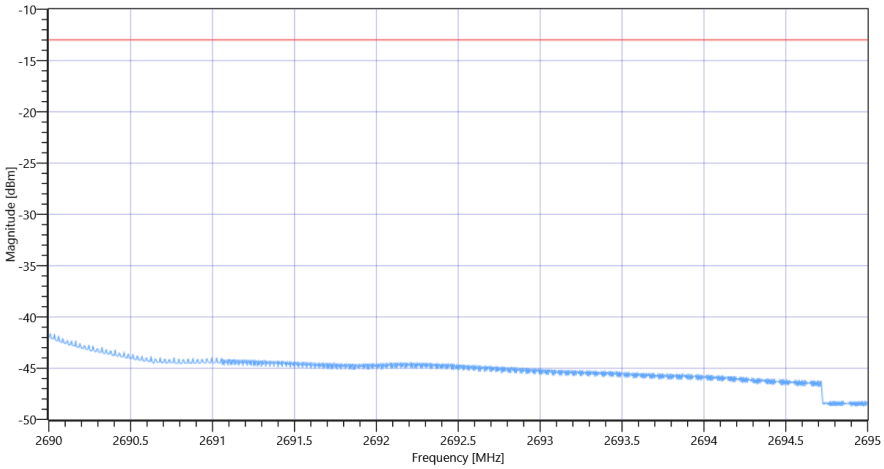
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Test at BW [MHz]: 70

Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: QPSK

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.18 | 0 | 30
Start [MHz] | Stop [MHz]	2690.000 | 2695.000
RBW [MHz] | VBW [MHz]	0.500000 | 2.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	30000 | 1 | 1001 | SWE

RESULT upper band					
Test description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2690.5	---	-13	-40.87	dBm	PASS
Frequency [MHz] 2691.5	---	-13	-41.84	dBm	PASS
Frequency [MHz] 2692.5	---	-13	-42.16	dBm	PASS
Frequency [MHz] 2693.5	---	-13	-42.86	dBm	PASS
Frequency [MHz] 2694.5	---	-13	-44	dBm	PASS



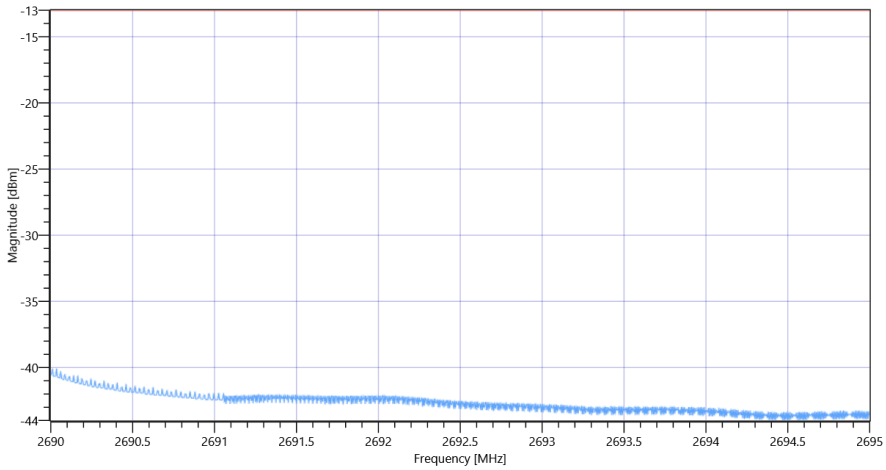
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30

Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 16QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.18 | 0 | 30
Start [MHz] | Stop [MHz]	2690.000 | 2695.000
RBW [MHz] | VBW [MHz]	0.500000 | 2.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	30000 | 1 | 1001 | SWE

RESULT upper band					
Test description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					

RESULT upper band					
Test description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Frequency [MHz] 2690.5	---	-13	-38.88	dBm	PASS
Frequency [MHz] 2691.5	---	-13	-39.6	dBm	PASS
Frequency [MHz] 2692.5	---	-13	-39.98	dBm	PASS
Frequency [MHz] 2693.5	---	-13	-40.46	dBm	PASS
Frequency [MHz] 2694.5	---	-13	-40.82	dBm	PASS

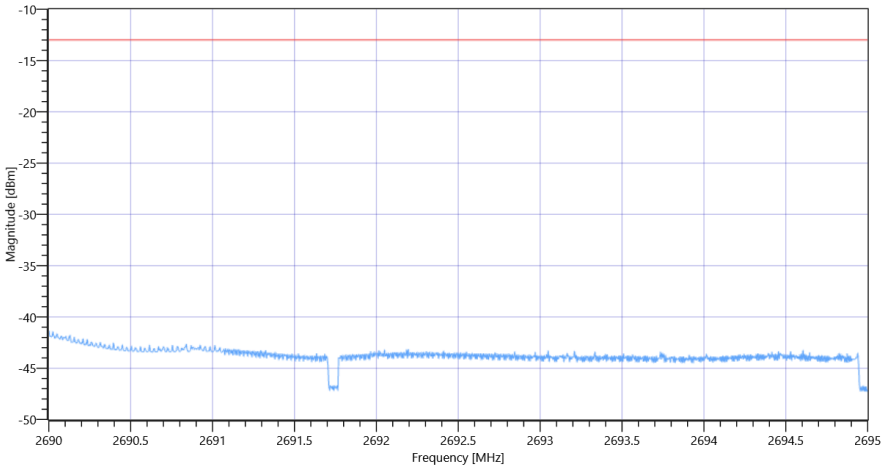


FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30

Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.85 | 0 | 30
Start [MHz] | Stop [MHz]	2690.000 | 2695.000
RBW [MHz] | VBW [MHz]	0.500000 | 2.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	30000 | 1 | 1001 | SWE

RESULT upper band					
Test description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2690.5	---	-13	-40.13	dBm	PASS
Frequency [MHz] 2691.5	---	-13	-41.12	dBm	PASS
Frequency [MHz] 2692.5	---	-13	-41.03	dBm	PASS
Frequency [MHz] 2693.5	---	-13	-41.29	dBm	PASS
Frequency [MHz] 2694.5	---	-13	-41.35	dBm	PASS

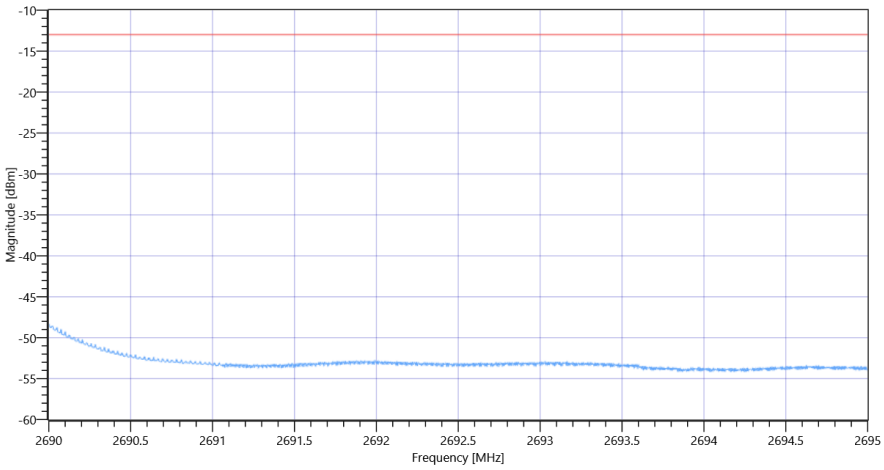


FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30

Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 256QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.06 | 0 | 25
Start [MHz] | Stop [MHz]	2690.000 | 2695.000
RBW [MHz] | VBW [MHz]	0.500000 | 2.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	30000 | 1 | 1001 | SWE

RESULT upper band					
Test description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2690.5	---	-13	-48.86	dBm	PASS
Frequency [MHz] 2691.5	---	-13	-50.53	dBm	PASS
Frequency [MHz] 2692.5	---	-13	-50.47	dBm	PASS
Frequency [MHz] 2693.5	---	-13	-50.73	dBm	PASS
Frequency [MHz] 2694.5	---	-13	-51.03	dBm	PASS



General verdict	PASS

FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30

Test References	
TC Start	01.07.2022 07:57:04
Ambit Temp [°C] | Humidity [rel%]	22.0 | 51
System Version	3.2.0.2
Test Specification	FCC, ISED -
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio Block edge conducted - NR Band_41
Add. Information	

Test Parameter	
Technology to test	NR
Band	Band_41
SCS [kHz]	30
Waveform	CPOFDM
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True
Frequency mid to test	False
Frequency high to test	False
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	0
Switched Path	None

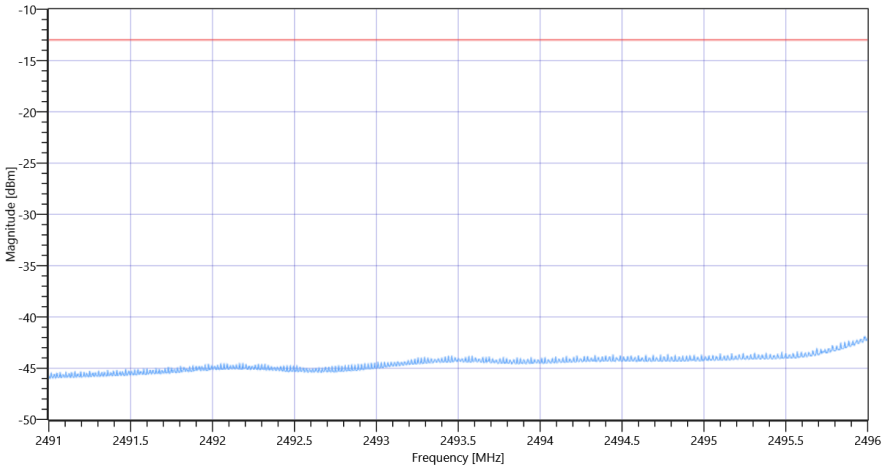
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Test at BW [MHz]: 70

Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: QPSK

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.16 | 0 | 30
Start [MHz] | Stop [MHz]	2491.000 | 2496.000
RBW [MHz] | VBW [MHz]	0.500000 | 2.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	30000 | 1 | 1001 | SWE

RESULT lower band					
Test description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2496.5	---	-13	-40.84	dBm	PASS
Frequency [MHz] 2497.5	---	-13	-41.46	dBm	PASS
Frequency [MHz] 2498.5	---	-13	-41.65	dBm	PASS
Frequency [MHz] 2499.5	---	-13	-42.32	dBm	PASS
Frequency [MHz] 2500.5	---	-13	-42.72	dBm	PASS



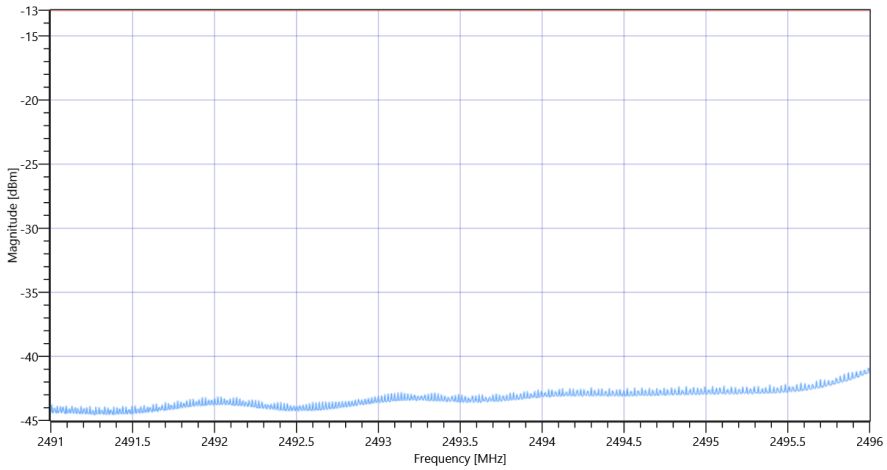
FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30

Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 16QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.63 | 0 | 30
Start [MHz] | Stop [MHz]	2491.000 | 2496.000
RBW [MHz] | VBW [MHz]	0.500000 | 2.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	30000 | 1 | 1001 | SWE

RESULT lower band					
Test description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					

RESULT lower band					
Test description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Frequency [MHz] 2496.5	---	-13	-39.63	dBm	PASS
Frequency [MHz] 2497.5	---	-13	-40.16	dBm	PASS
Frequency [MHz] 2498.5	---	-13	-40.55	dBm	PASS
Frequency [MHz] 2499.5	---	-13	-41.08	dBm	PASS
Frequency [MHz] 2500.5	---	-13	-41.37	dBm	PASS

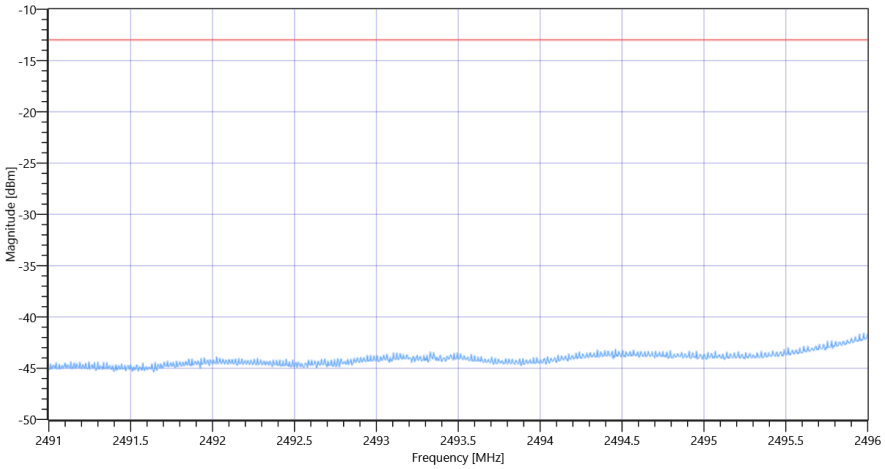


FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30

Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.40 | 0 | 30
Start [MHz] | Stop [MHz]	2491.000 | 2496.000
RBW [MHz] | VBW [MHz]	0.500000 | 2.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	30000 | 1 | 1001 | SWE

RESULT lower band					
Test description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2496.5	---	-13	-40.54	dBm	PASS
Frequency [MHz] 2497.5	---	-13	-41.08	dBm	PASS
Frequency [MHz] 2498.5	---	-13	-41.42	dBm	PASS
Frequency [MHz] 2499.5	---	-13	-41.73	dBm	PASS
Frequency [MHz] 2500.5	---	-13	-42.06	dBm	PASS

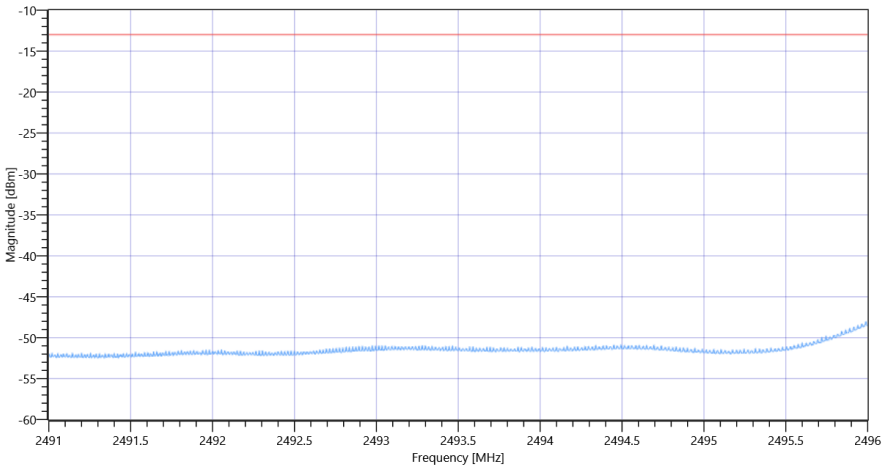


FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30

Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 256QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.23 | 0 | 25
Start [MHz] | Stop [MHz]	2491.000 | 2496.000
RBW [MHz] | VBW [MHz]	0.500000 | 2.000000
Detector | TraceMode	RMS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	30000 | 1 | 1001 | SWE

RESULT lower band					
Test description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Band power 1MHz					
Frequency [MHz] 2496.5	---	-13	-48.02	dBm	PASS
Frequency [MHz] 2497.5	---	-13	-48.66	dBm	PASS
Frequency [MHz] 2498.5	---	-13	-48.7	dBm	PASS
Frequency [MHz] 2499.5	---	-13	-49.07	dBm	PASS
Frequency [MHz] 2500.5	---	-13	-49.39	dBm	PASS



FCC, ISED # Block edge conducted ~ NR Band_41 Ant-2 SCS-30

General verdict	PASS

FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30

Test References	
TC Start	01.07.2022 09:11:22
Ambit Temp [°C] | Humidity [rel%]	22.2 | 50
System Version	3.2.0.2
Test Specification	FCC, ISED -
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - NR Band_41
Add. Information	

Test Parameter	
Technology to test	NR
Band	Band_41
SCS [kHz]	30
Waveform	CPOFDM
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False
Frequency mid to test	False
Frequency high to test	True
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	0
Switched Path	None

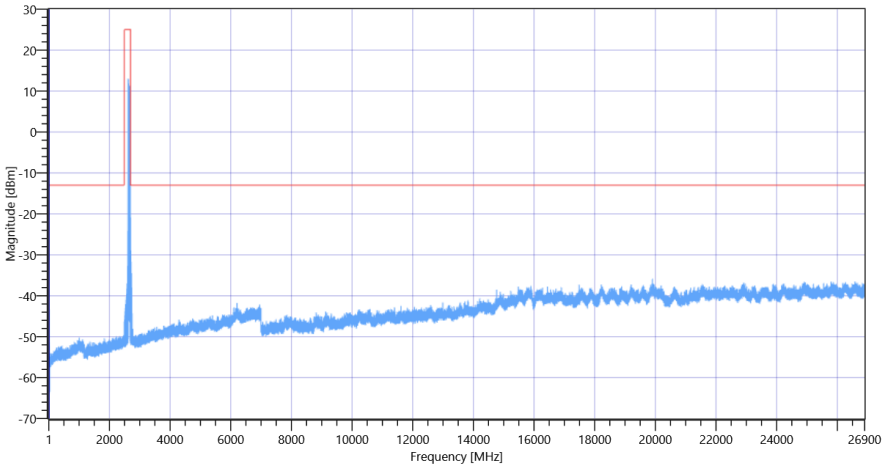
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Test at BW [MHz]: 70

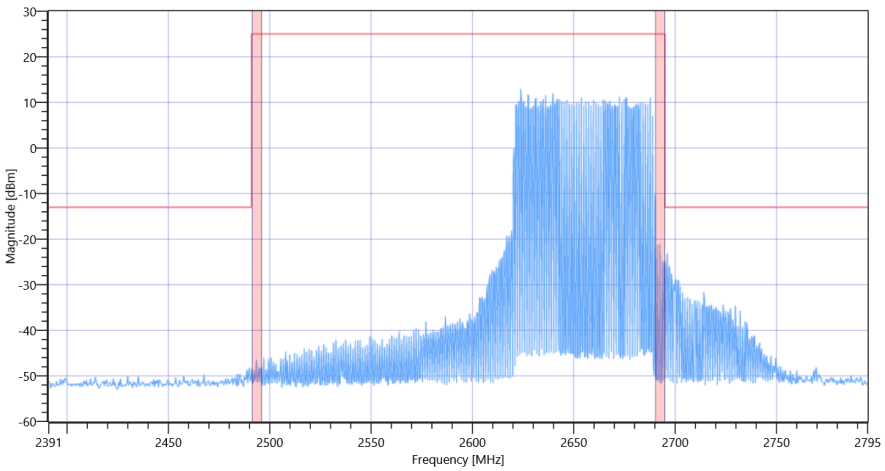
Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: QPSK

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.37 | 0 | 20
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: QPSK					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2655 MHz



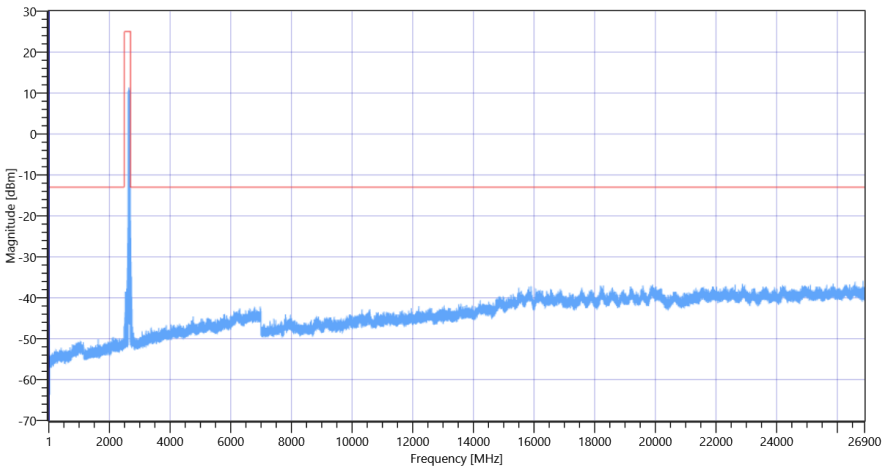
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2655

Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 16QAM

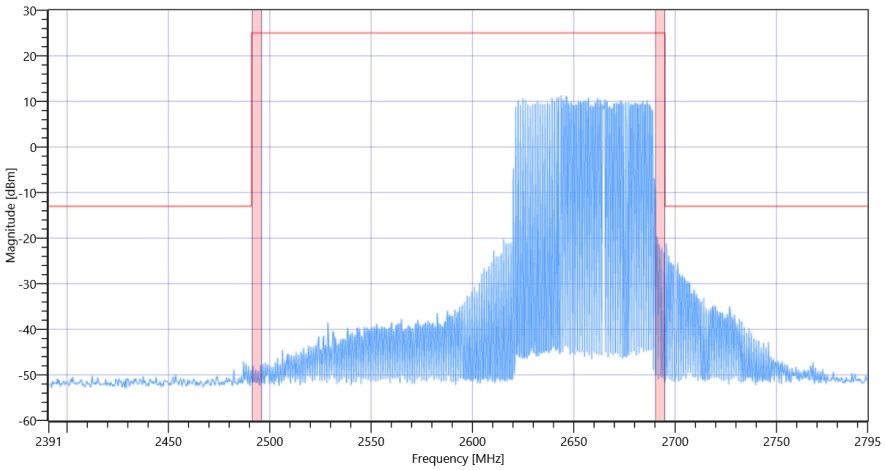
READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.18 | 0 | 20
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000

READ SA SETTINGS:	
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 16QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2655 MHz



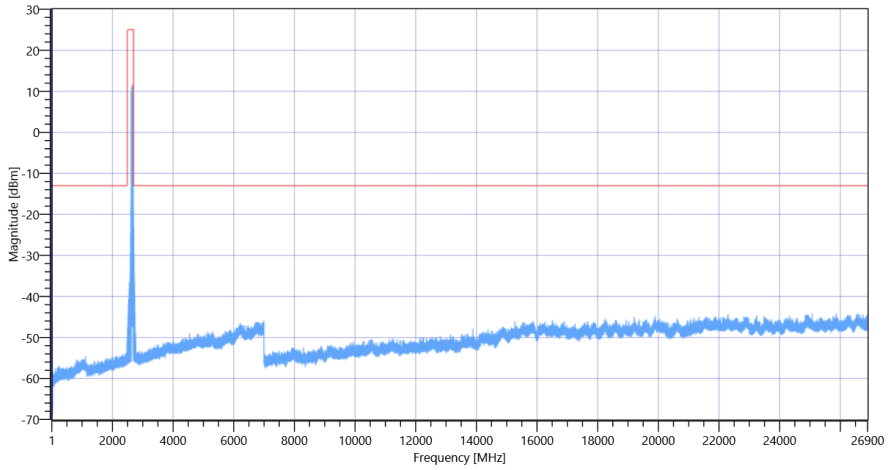
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2655

Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM

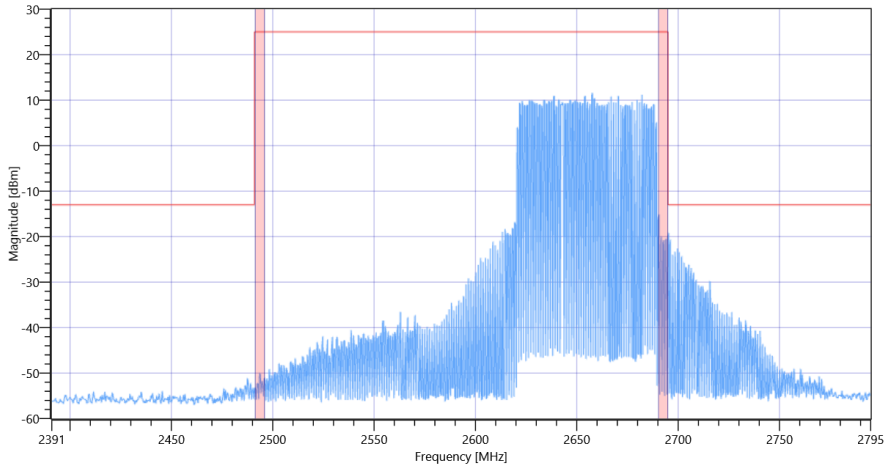
READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-0.09 | 0 | 15
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict

RESULT Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2655 MHz

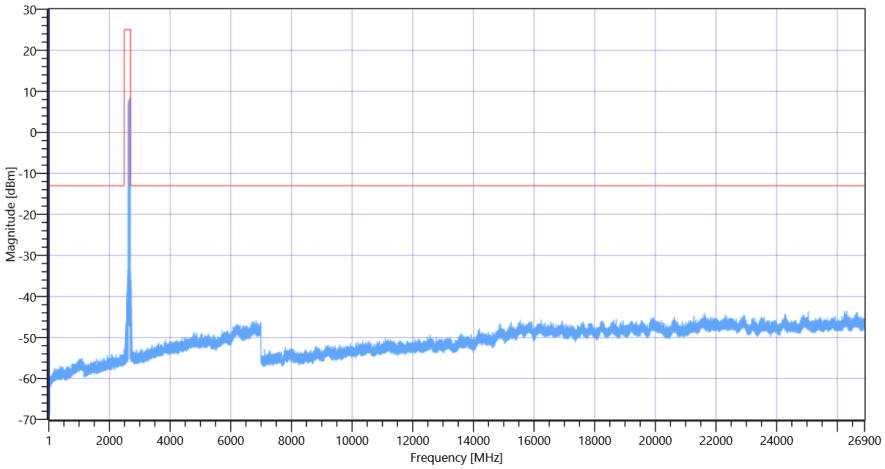


FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2655

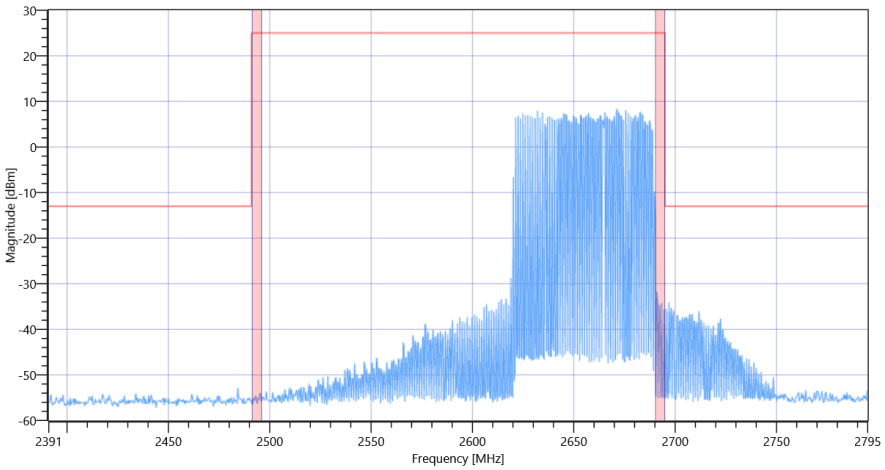
Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 256QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-2.17 | 0 | 15
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 256QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2655 MHz



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2655

General verdict	PASS

FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30

Test References	
TC Start	01.07.2022 08:15:13
Ambit Temp [°C] | Humidity [rel%]	22.1 | 50
System Version	3.2.0.2
Test Specification	FCC, ISED -
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - NR Band_41
Add. Information	

Test Parameter	
Technology to test	NR
Band	Band_41
SCS [kHz]	30
Waveform	CPOFDM
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False
Frequency mid to test	True
Frequency high to test	False
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	0
Switched Path	None

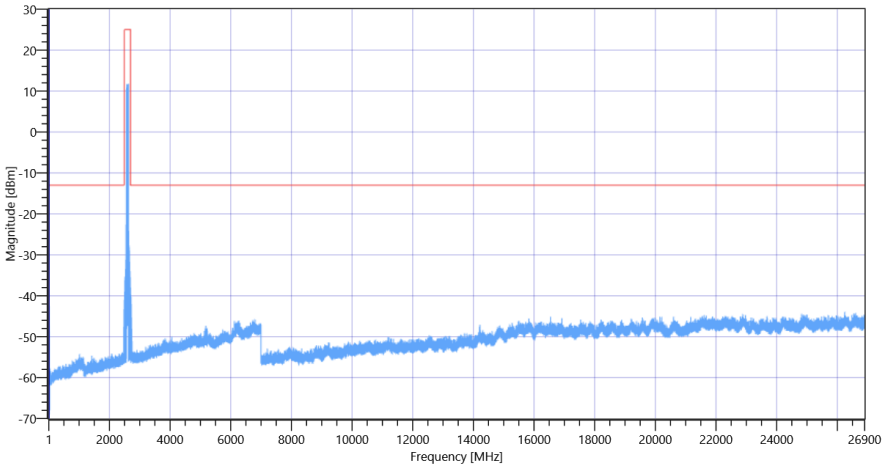
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Test at BW [MHz]: 70

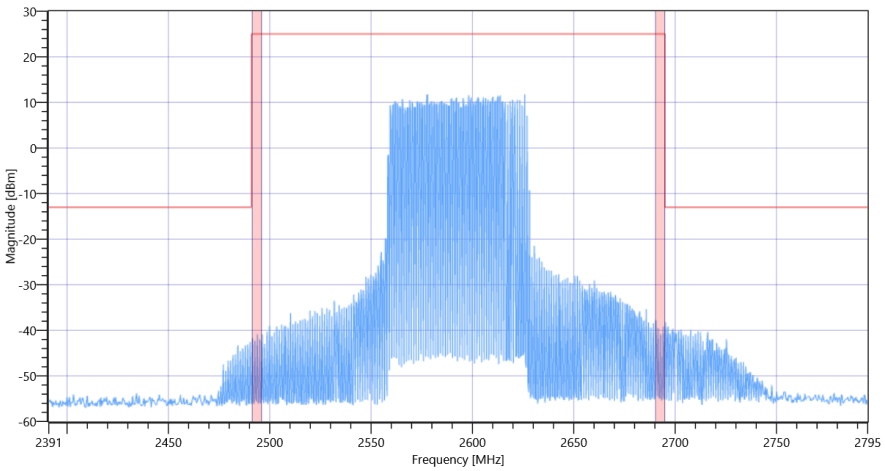
Test freq: mid, UL[MHz]/CH 2593/0, CBW [MHz]: 70, RB_100PCT, Mod: QPSK

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-0.76 | 0 | 15
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: mid, UL[MHz]/CH 2593/0, CBW [MHz]: 70, RB_100PCT, Mod: QPSK					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2593 MHz



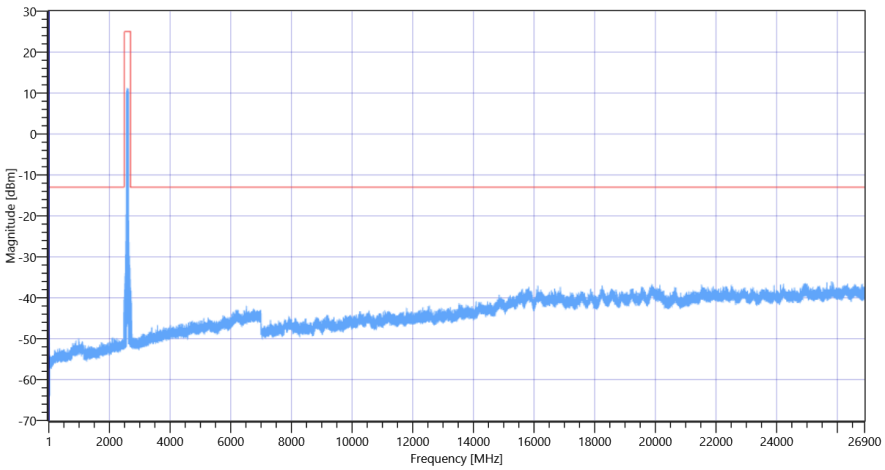
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2593

Test freq: mid, UL[MHz]/CH 2593/0, CBW [MHz]: 70, RB_100PCT, Mod: 16QAM

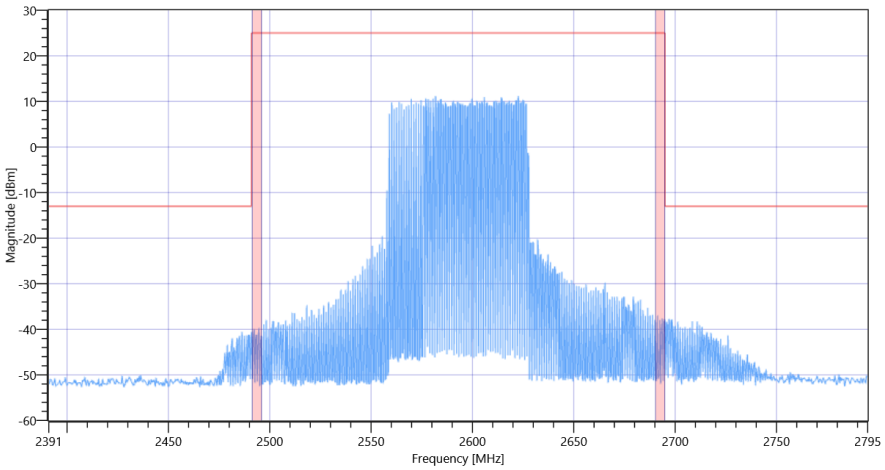
READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.41 | 0 | 20
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000

READ SA SETTINGS:	
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: mid, UL[MHz]/CH 2593/0, CBW [MHz]: 70, RB_100PCT, Mod: 16QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2593 MHz



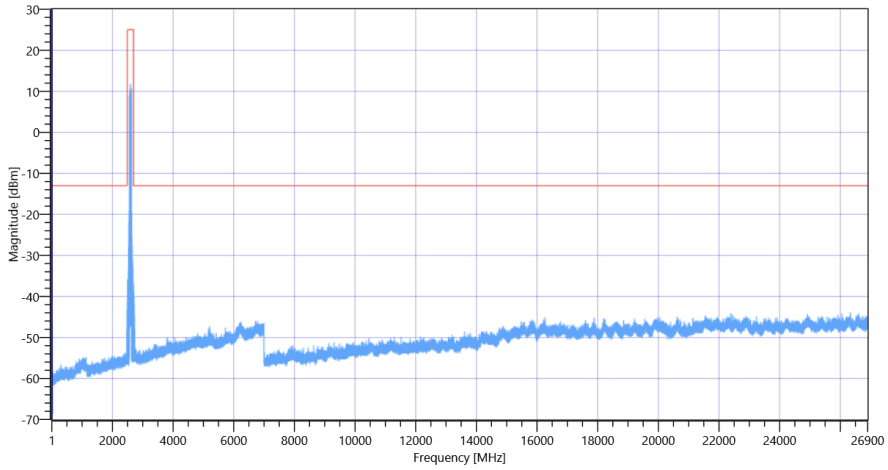
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2593

Test freq: mid, UL[MHz]/CH 2593/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM

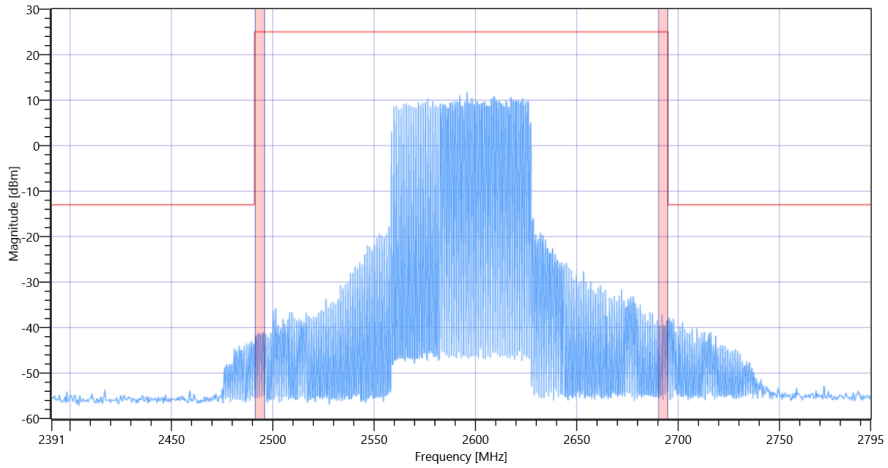
READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-0.08 | 0 | 15
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: mid, UL[MHz]/CH 2593/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict

RESULT Test freq: mid, UL[MHz]/CH 2593/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2593 MHz

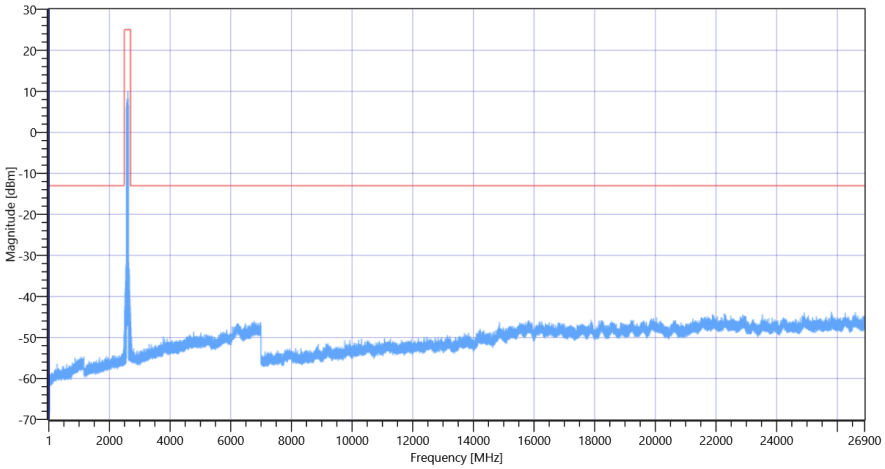


FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2593

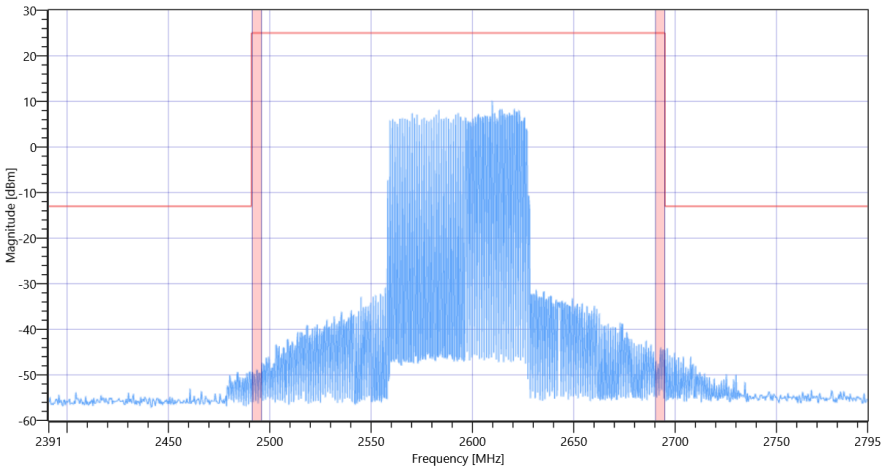
Test freq: mid, UL[MHz]/CH 2593/0, CBW [MHz]: 70, RB_100PCT, Mod: 256QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-1.47 | 0 | 15
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: mid, UL[MHz]/CH 2593/0, CBW [MHz]: 70, RB_100PCT, Mod: 256QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2593 MHz



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2593

General verdict	PASS

FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30

Test References	
TC Start	01.07.2022 08:00:30
Ambit Temp [°C] | Humidity [rel%]	22.0 | 51
System Version	3.2.0.2
Test Specification	FCC, ISED -
Test Method	
TC Version	0.0.1
My Description	FCC/ISED MobileRadio TX Emissions conducted - NR Band_41
Add. Information	

Test Parameter	
Technology to test	NR
Band	Band_41
SCS [kHz]	30
Waveform	CPOFDM
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True
Frequency mid to test	False
Frequency high to test	False
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	0
Switched Path	None

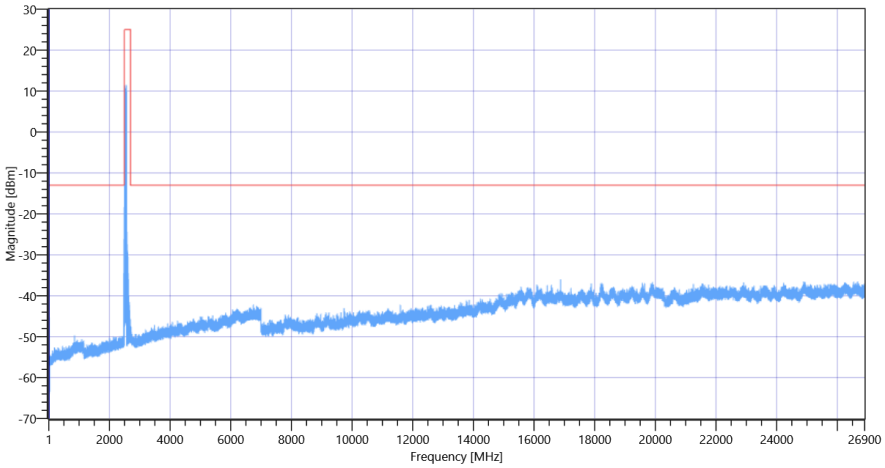
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Test at BW [MHz]: 70

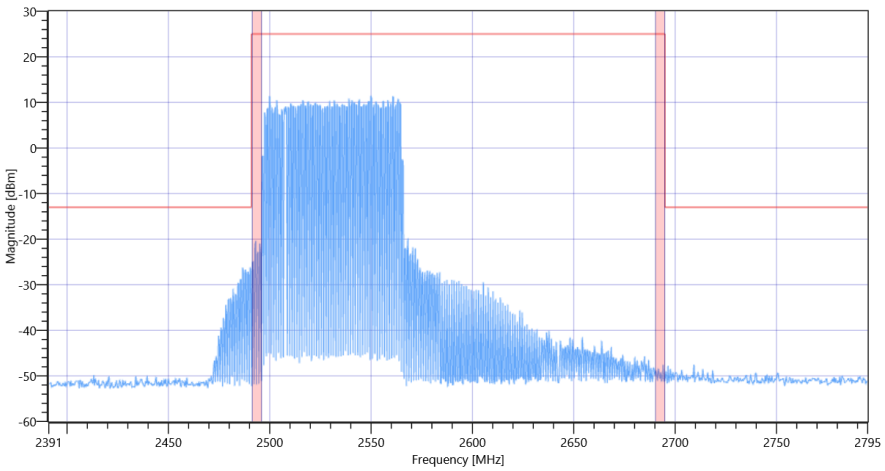
Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: QPSK

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	0.42 | 0 | 20
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: QPSK					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2531 MHz



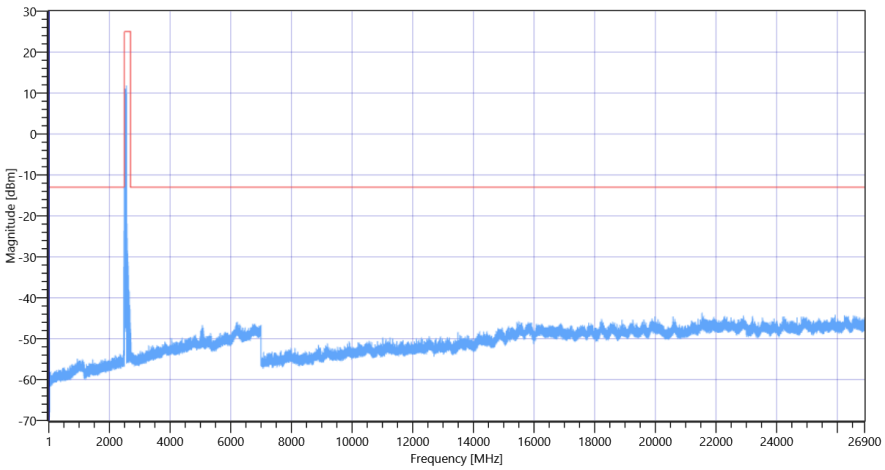
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2531

Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 16QAM

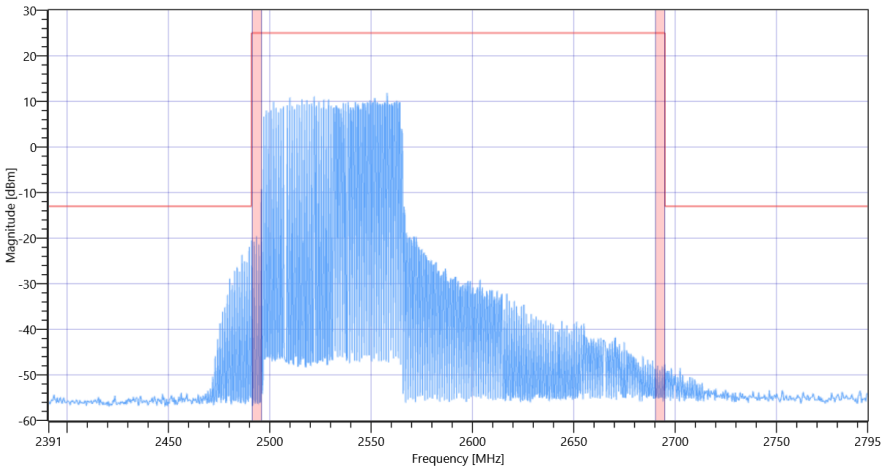
READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-0.12 | 0 | 15
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000

READ SA SETTINGS:	
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 16QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2531 MHz



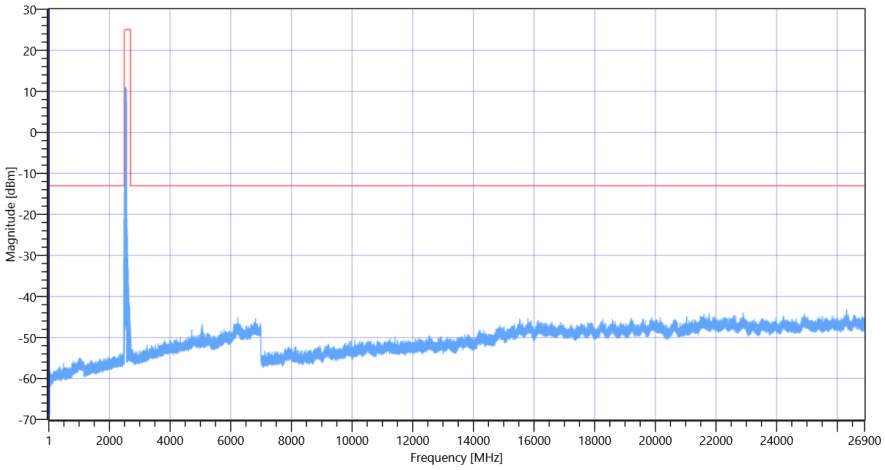
FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2531

Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM

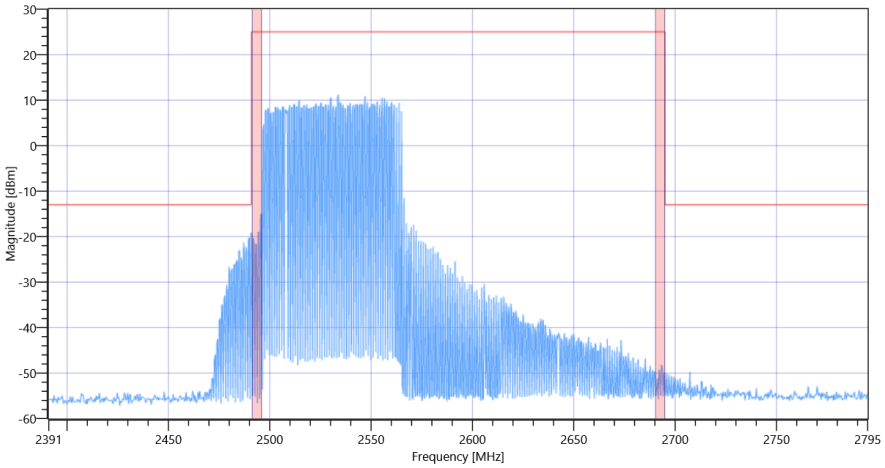
READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-0.56 | 0 | 15
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict

RESULT Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2531 MHz

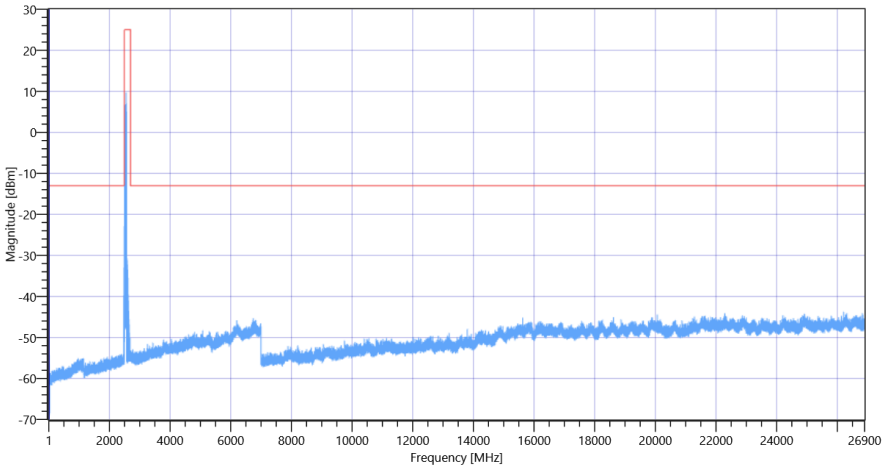


FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2531

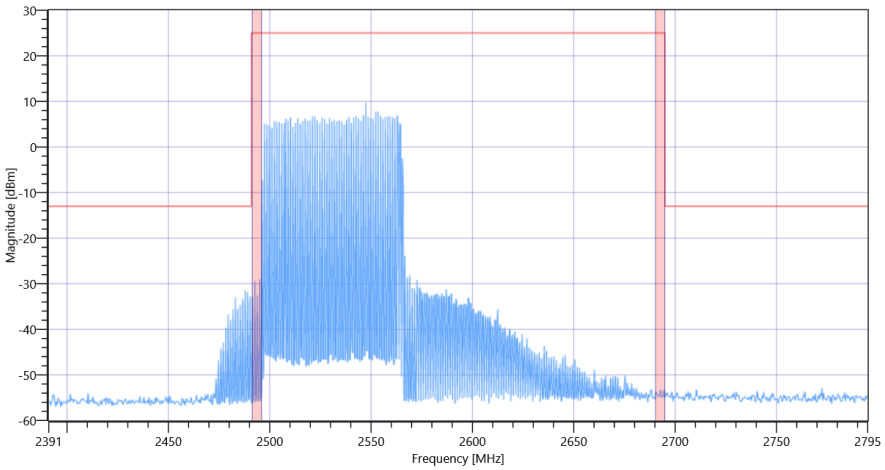
Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 256QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-1.81 | 0 | 15
Start [MHz] | Stop [MHz]	1.000 | 401.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1600 | 1 | 1001 | SWE

RESULT Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 256QAM					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Peaks higher limit	---	0	0	no	PASS



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2531 MHz



FCC, ISED # TX Emissions conducted ~ NR Band_41 Ant-2 SCS-30 2531

General verdict	PASS

FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30

Test References	
TC Start	01.07.2022 09:04:32
Ambit Temp [°C] | Humidity [rel%]	22.2 | 50
System Version	3.2.0.2
Test Specification	FCC, ISED -
Test Method	
TC Version	0.0.1
My Description	FCC/ISED Bandwidths 99PCT and 26dB - NR Band_41
Add. Information	

Test Parameter	
Technology to test	NR
Band	Band_41
SCS [kHz]	30
Waveform	CPOFDM
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	False
Frequency mid to test	False
Frequency high to test	True
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	0
Switched Path	None

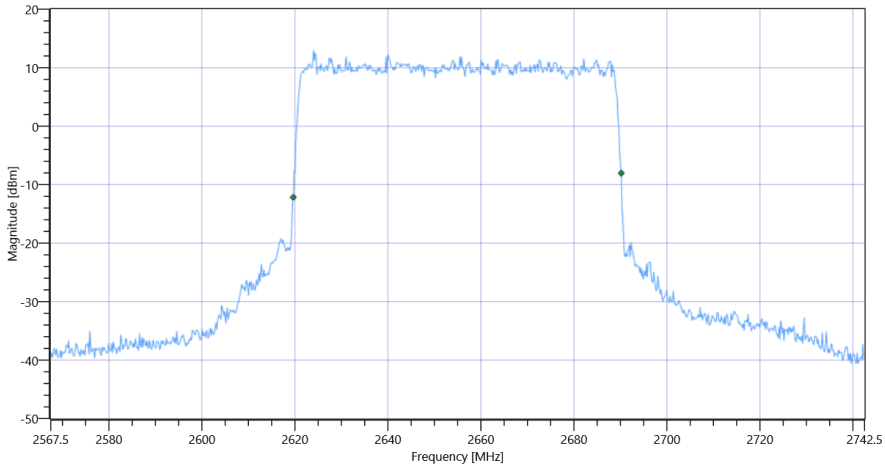
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Test at BW [MHz]: 70

Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: QPSK

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.06 | 0 | 30
Start [MHz] | Stop [MHz]	2567.500 | 2742.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

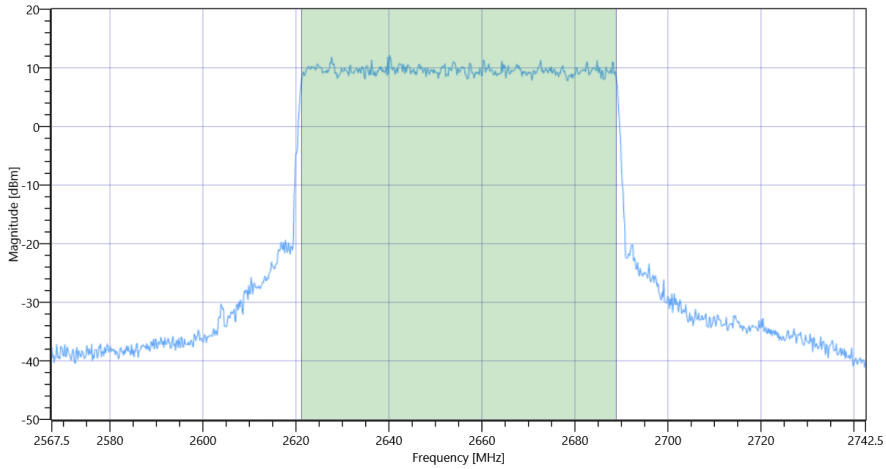
RESULT 26 dB					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	70.525	MHz	INFO



FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.06 | 0 | 30
Start [MHz] | Stop [MHz]	2567.500 | 2742.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 1500 | 1001 | SWE

RESULT 99%					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	67.483	MHz	INFO

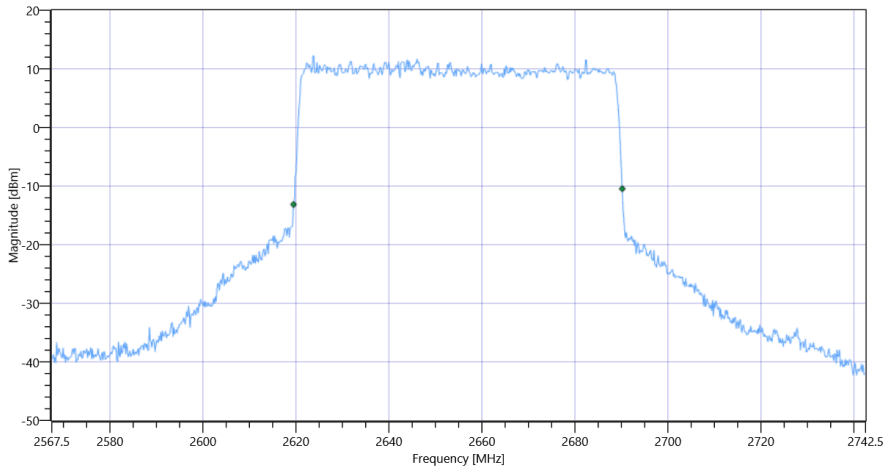


FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 16QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.97 | 0 | 25
Start [MHz] | Stop [MHz]	2567.500 | 2742.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

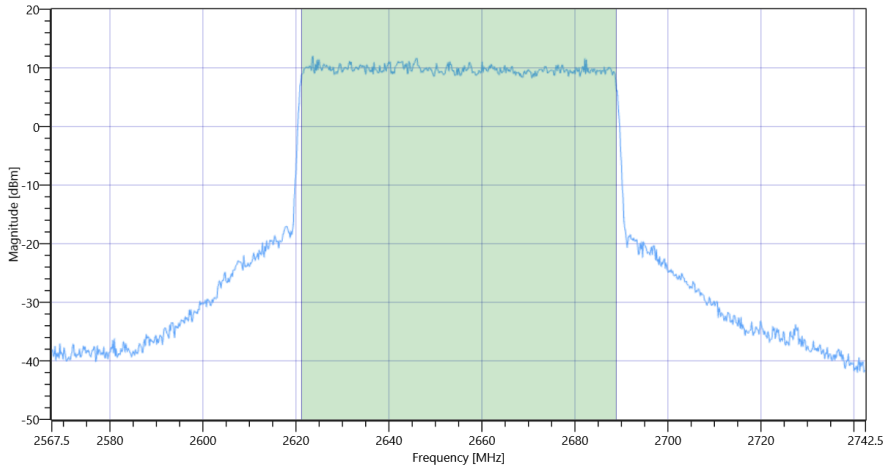
RESULT 26 dB					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	70.7	MHz	INFO



FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.97 | 0 | 25
Start [MHz] | Stop [MHz]	2567.500 | 2742.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

RESULT 99%					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	67.483	MHz	INFO

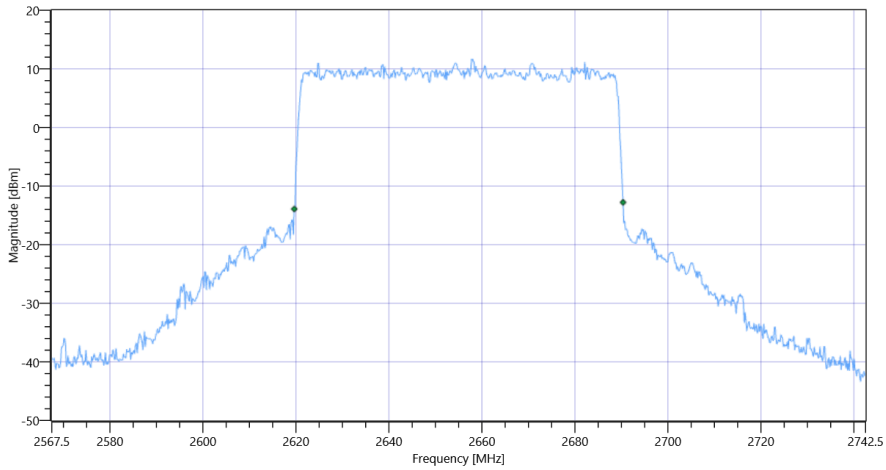


FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.74 | 0 | 25
Start [MHz] | Stop [MHz]	2567.500 | 2742.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

RESULT 26 dB					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	70.7	MHz	INFO

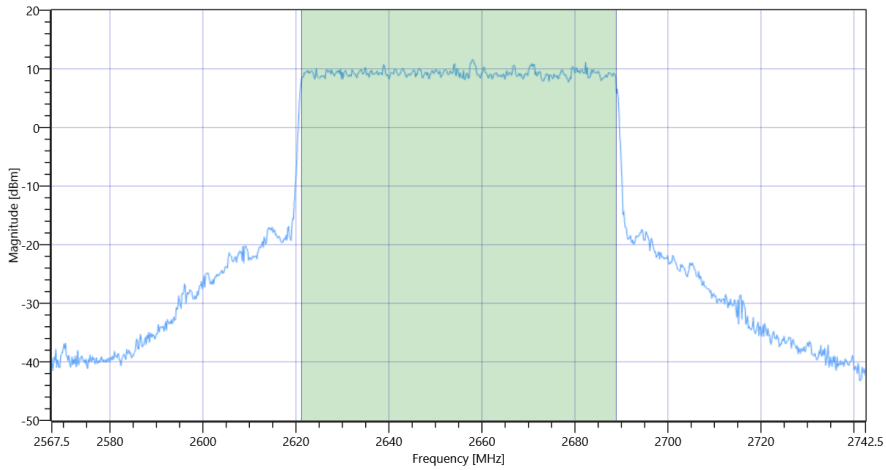


FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.74 | 0 | 25

READ SA SETTINGS:	
Start [MHz] | Stop [MHz]	2567.500 | 2742.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

RESULT 99%					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	67.483	MHz	INFO

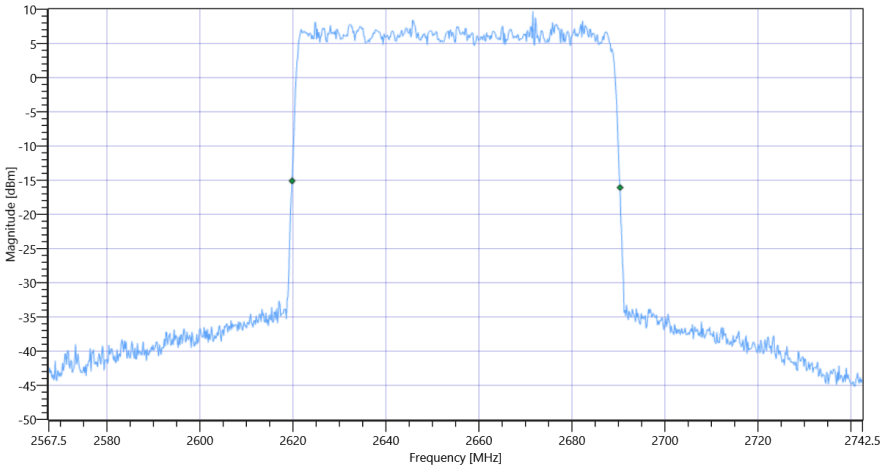


FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

Test freq: high, UL[MHz]/CH 2655/0, CBW [MHz]: 70, RB_100PCT, Mod: 256QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.03 | 0 | 25
Start [MHz] | Stop [MHz]	2567.500 | 2742.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

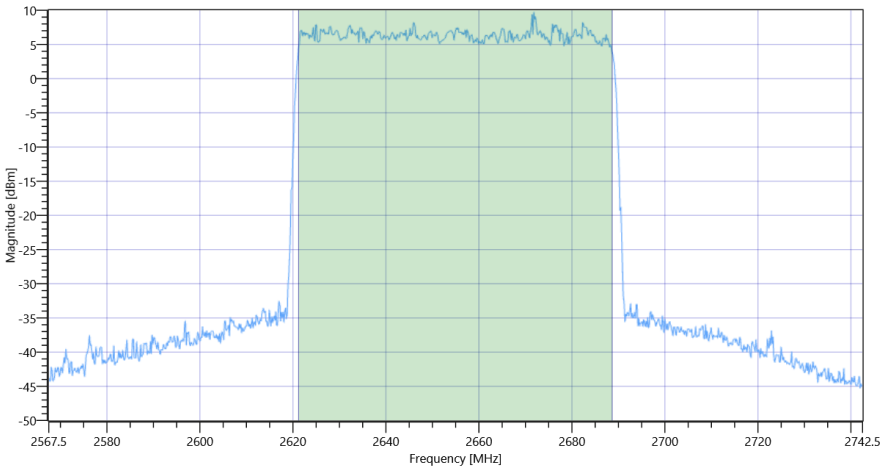
RESULT 26 dB					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	70.525	MHz	INFO



FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.03 | 0 | 25
Start [MHz] | Stop [MHz]	2567.500 | 2742.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

RESULT 99%					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	67.308	MHz	INFO



FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

General verdict	PASS

FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30

Test References	
TC Start	01.07.2022 07:54:07
Ambit Temp [°C] | Humidity [rel%]	22.0 | 51
System Version	3.2.0.2
Test Specification	FCC, ISED -
Test Method	
TC Version	0.0.1
My Description	FCC/ISED Bandwidths 99PCT and 26dB - NR Band_41
Add. Information	

Test Parameter	
Technology to test	NR
Band	Band_41
SCS [kHz]	30
Waveform	CPOFDM
Antenna Port used	2
Temperature	nom
Voltage	nom
Frequency low to test	True
Frequency mid to test	False
Frequency high to test	False
Auto Control enabled Power Supply | Climatic Box	No | No
Additional Path Loss [dB]	0
Switched Path	None

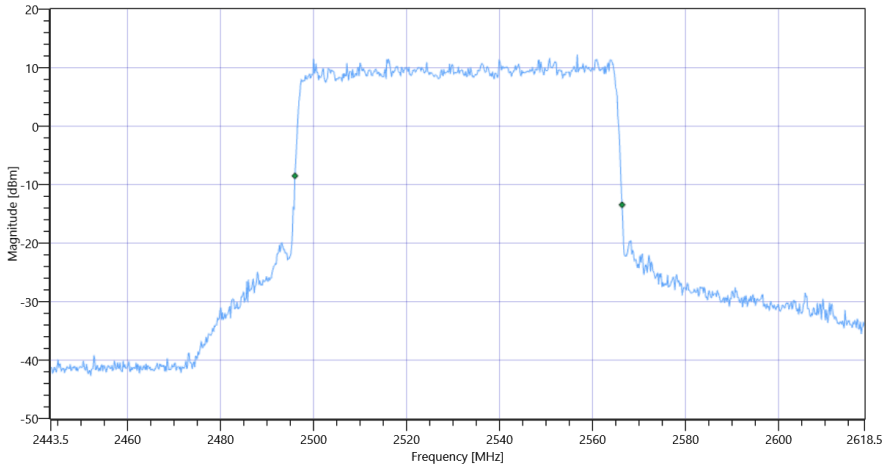
Test Equipment
Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Test at BW [MHz]: 70

Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: QPSK

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.14 | 0 | 30
Start [MHz] | Stop [MHz]	2443.500 | 2618.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

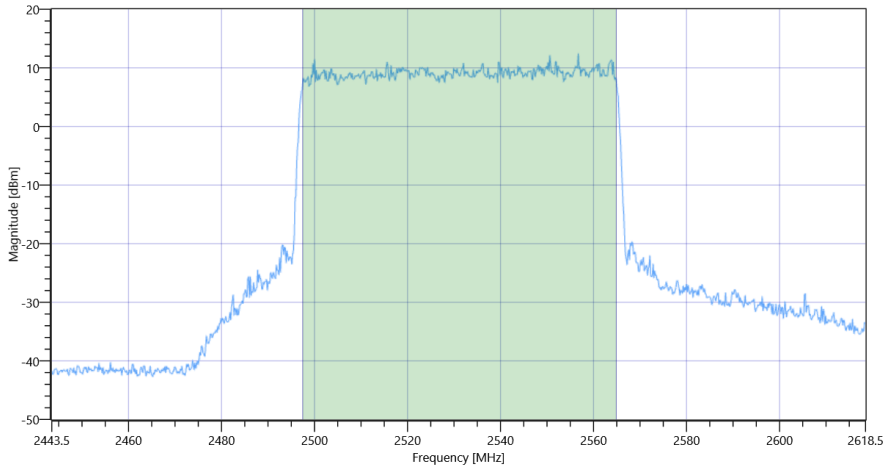
RESULT 26 dB					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	70.35	MHz	INFO



FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.14 | 0 | 30
Start [MHz] | Stop [MHz]	2443.500 | 2618.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	1 | 1500 | 1001 | SWE

RESULT 99%					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	67.483	MHz	INFO

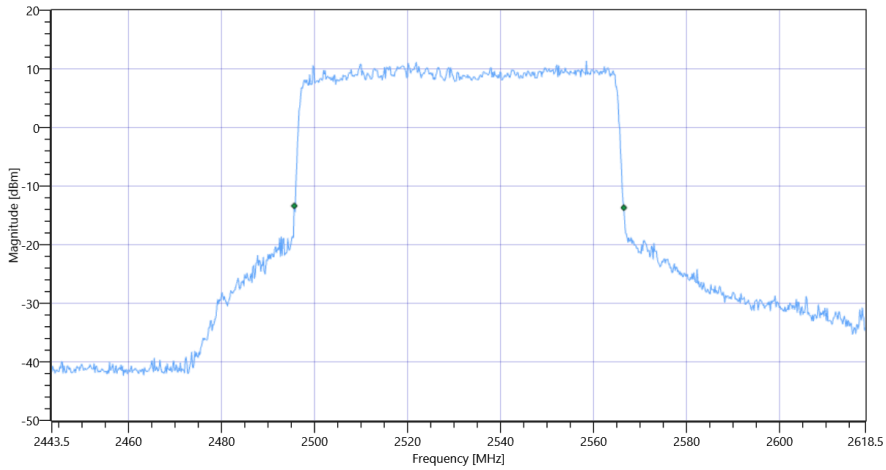


FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 16QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.09 | 0 | 30
Start [MHz] | Stop [MHz]	2443.500 | 2618.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

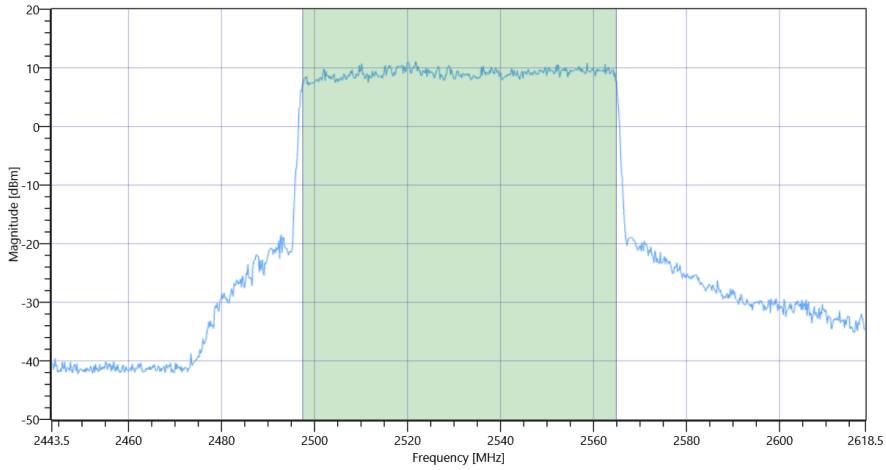
RESULT 26 dB					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	70.875	MHz	INFO



FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.09 | 0 | 30
Start [MHz] | Stop [MHz]	2443.500 | 2618.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

RESULT 99%					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	67.308	MHz	INFO

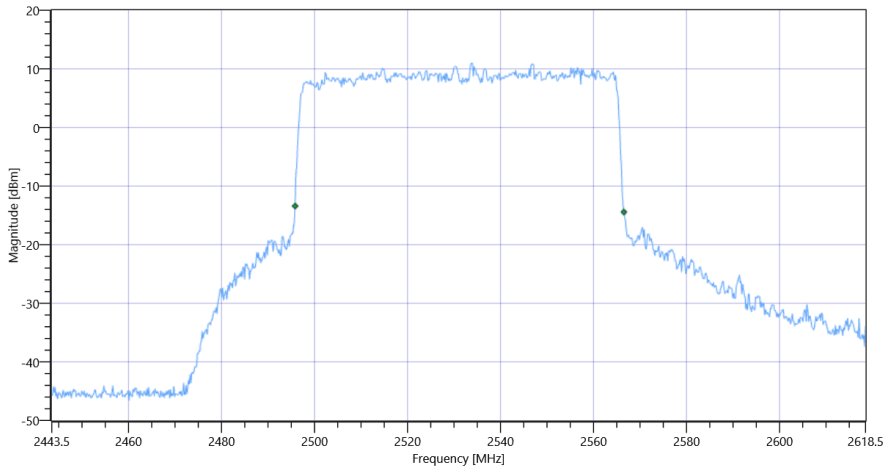


FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 64QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.23 | 0 | 25
Start [MHz] | Stop [MHz]	2443.500 | 2618.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

RESULT 26 dB					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	70.7	MHz	INFO

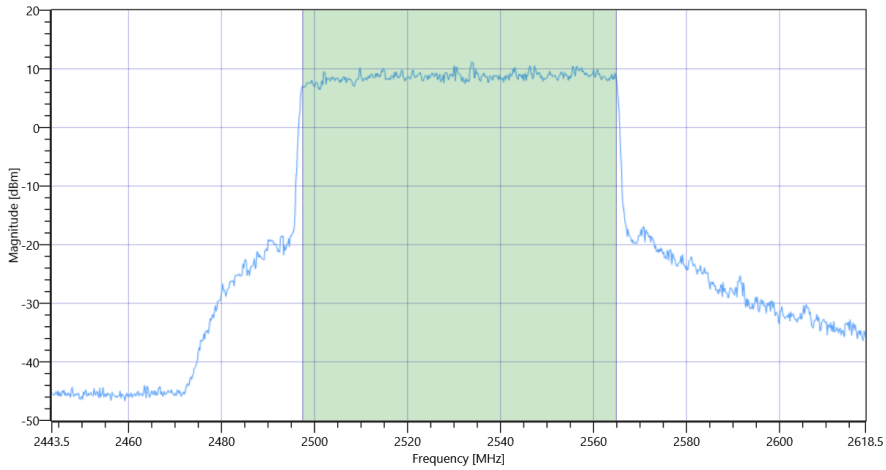


FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.23 | 0 | 25

READ SA SETTINGS:	
Start [MHz] | Stop [MHz]	2443.500 | 2618.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

RESULT 99%					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	67.483	MHz	INFO

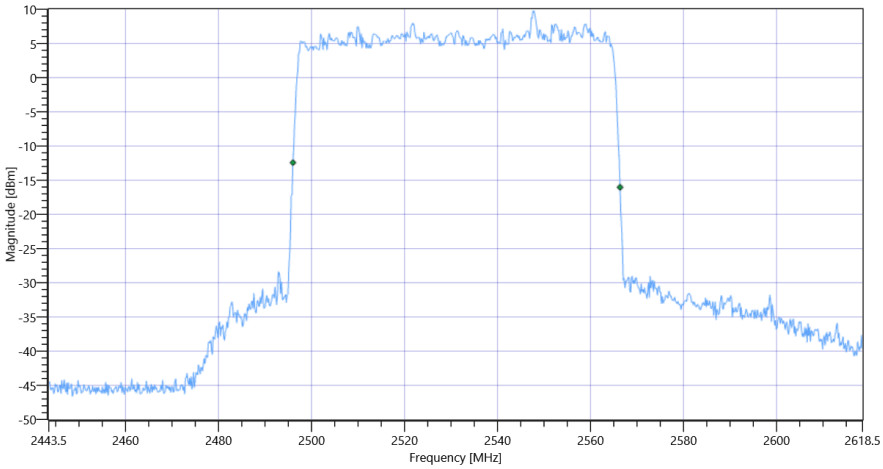


FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

Test freq: low, UL[MHz]/CH 2531/0, CBW [MHz]: 70, RB_100PCT, Mod: 256QAM

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.19 | 0 | 25
Start [MHz] | Stop [MHz]	2443.500 | 2618.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

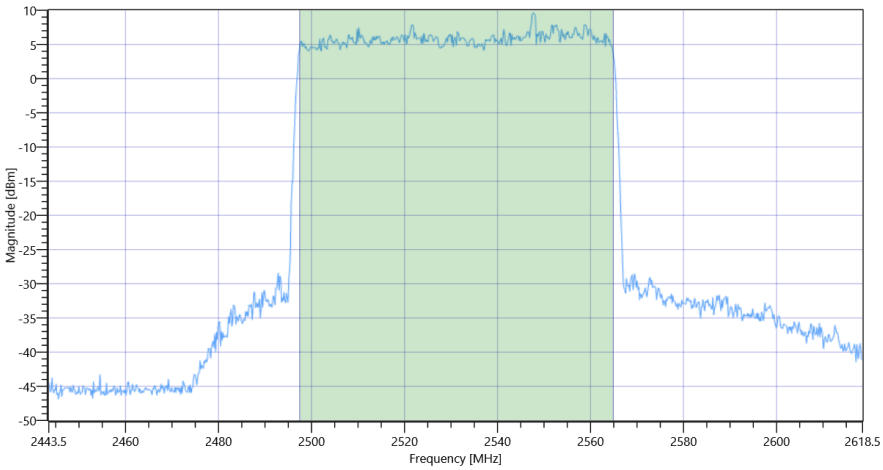
RESULT 26 dB					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 26dB	---	---	70.35	MHz	INFO



FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

READ SA SETTINGS:	
RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.19 | 0 | 25
Start [MHz] | Stop [MHz]	2443.500 | 2618.500
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: Time [ms] | Count | Points per Section | Type	2 | 1500 | 1001 | SWE

RESULT 99%					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Bandwidth 99%	---	---	67.308	MHz	INFO



FCC, ISED # Bandwidth 99PCT and 26dB ~ NR Band_41 Ant-2 SCS-30 26dB

General verdict	PASS

- END OF DOCUMENT -