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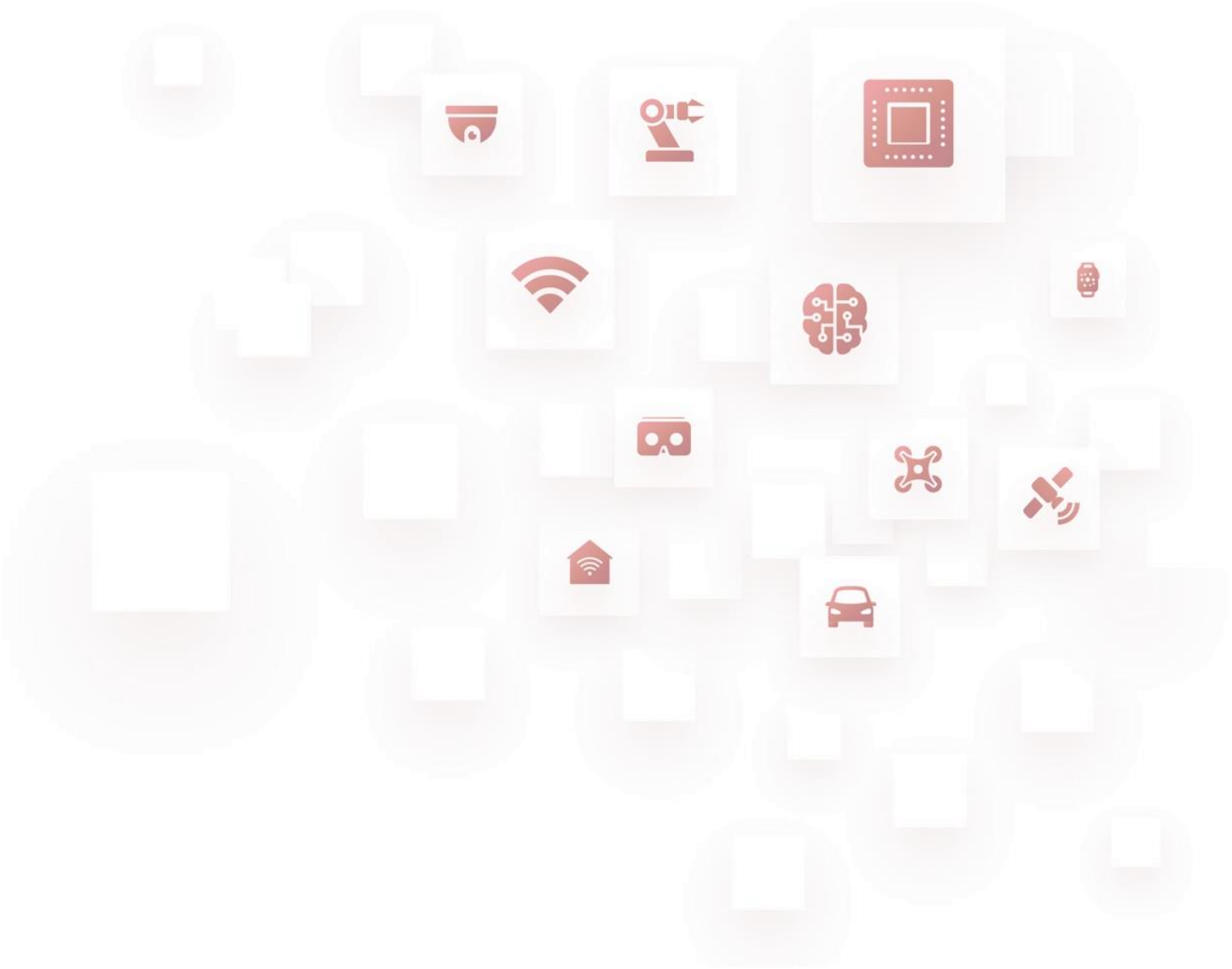

Thundercomm Turbox™ T55M SOM

mmWave Test Report

Rev. V1.0

Jun 23, 2021

Revision History

Revision	Date	Description
1.0	June 20, 2021	Initial release

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About This Document

- Illustrations in this documentation might look different from your product.
- Depending on the model, some optional accessories, features, and software programs might not be available on your device.
- Depending on the version of operating systems and programs, some user interface instructions might not be applicable to your device.
- Documentation content is subject to change without notice. Thundercomm makes constant improvements on the documentation of your computer, including this guidebook.
- Function declarations, function names, type declarations, attributes, and code samples appear in a different format, for example, `cp armcc armcpp`.
- Code variables appear in angle brackets, for example, `<number>`.
- Button, tool, and key names appear in bold font, for example, click **Save** or press **Enter**.
- Commands to be entered appear in a different font, on the host computer use $ as shell prompt, while on the target device use # as shell prompt, for example,

```
$ adb devices
# logcat
```

- Part of the code that does not contain instructions appear in a different format, for example,

```
SUBSYSTEM=="usb", ATTR{idVendor}=="18d1", MODE="0777", GROUP="adm"
```

- Folders and files are formatted in italic, for example, *turbox_flash_flat.sh*.

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Chapter 1. Overview

According to the guideline defined by 3GPP, only OTA test is supported for mmW (mmWave) RF (Radio Frequency) test. This is a pretest of *Chapter 6 Transmitter Characteristics* and *Chapter 7 Receiver characteristics* of *3GPP 38.521-3* and is required to be performed in a test chamber. Limited by test environment and test time, only partial use cases can be tested; however, these use cases can reflect the basic RF performance of the device and most transmitter use cases have been tested.

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Chapter 2. Test Environment

2.1. Test environment

Table 2-1. Test environment

Operating temperature	15°C - 35°C
Relative humidity	30-60%

2.2. Test equipment

Table 2-2. Equipment information

Equipment	Model	Manufacturer
UXM 5G Wireless Test Platform	E7515B UXM	Keysight
Compact Antenna Test Range	CATR 330	Keysight
CIU (Common Interfacing Unit)	E7770A	Keysight
28/39GHz RRH (Remote Radio Head)	M1740A	Keysight
5G NR PAvT	C87350R3A	Keysight

2.3. DUT (Device Under Test)

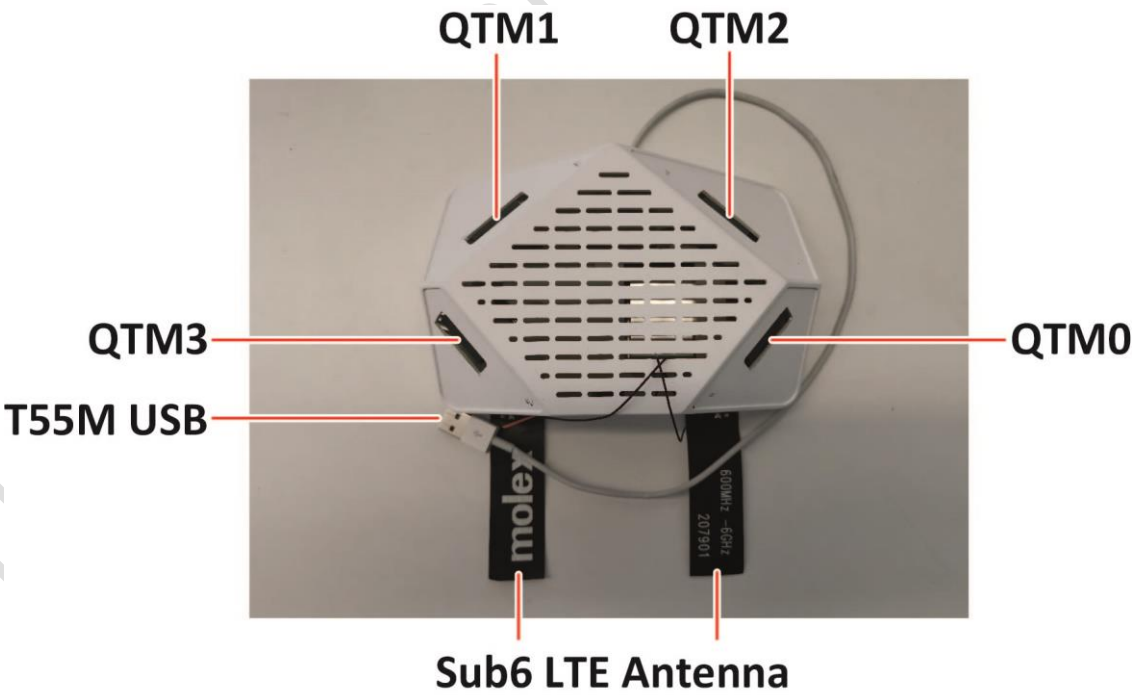

Figure 2-1. Device Under Test

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Chapter 3. Test Items

3.1. Purpose

This test is aimed to measure if the M.2 mmWave sample can meet 3GPP RF requirements.

3.2. Measurement

3.2.1. Basic test information

Table 3-1. Basic test information

Device under test	Thundercomm mmW sample device
Test station (PC Name)	K-E7515B-92714
IMEI	869751050003571

3.2.2. UE capability

- LTE access stratum: rel15
- LTE UE category: 12, UL13, DL20
- LTE band: 1, 3, 5, 8, 2, 4, 7, 12, 13, 14, 17, 18, 19, 20, 21, 25, 26, 28, 30, 32, 34, 38, 39, 40, 41, 42, 43, 46, 48, 64, 64
- LTE TM: TM3, TM4, TM9
- LTE UL comb: CA_1A, CA_3A, CA_5A, CA_8A, CA_2A, CA_4A, CA_7A, CA_12A, CA_13A, CA_14A, CA_17A, CA_18A, CA_19A, CA_20A, CA_21A, CA_25A, CA_26A, CA_28A, CA_30A, CA_34A, CA_38A, CA_39A, CA_40A, CA_41A, CA_42A, CA_43A, CA_48A, CA_64A, CA_64A, CA_1A, CA_1A, CA_1C
- LTE DL comb: CA_1A(4x4), CA_3A(4x4), CA_5A(2x2), CA_8A(2x2), CA_2A(2x2), CA_4A(2x2), CA_7A(4x4), CA_12A(2x2), CA_13A(2x2), CA_14A(2x2), CA_17A(2x2), CA_18A(2x2), CA_19A(2x2), CA_20A(2x2), CA_21A(2x2), CA_25A(2x2), CA_26A(2x2), CA_28A(2x2), CA_30A(2x2), CA_32A(2x2), CA_34A(2x2), CA_38A(4x4), CA_39A(4x4), CA_40A(4x4), CA_41A(4x4), CA_42A(4x4), CA_43A(2x2), CA_46A(2x2), CA_48A(2x2), CA_64A(4x4), CA_64A(2x2), CA_1A(4x4)_1A(4x4), CA_1C(4x4), CA_1C(4x4)
- LTE max modulation: DL_QAM256, UL_QAM64
- ENDC band: 1, 2, 3, 5, 7, 8, 12, 20, 25, 28, 38, 40, 41, 66, 71, 77, 78, 79, 257, 258, 260, 261
- SA band: 1, 2, 3, 5, 7, 8, 12, 20, 25, 28, 38, 40, 41, 66, 71, 77, 78, 79
- NR access stratum: rel15
- Modulation mode: NR Pdsch-256QAM-FR1
- NR band details: 79_pc2_QAM256, 78_pc2_QAM256, 77_pc3_QAM256, 66_pc3_QAM256, 41_pc2_QAM256, 28_pc3_QAM256, 25_pc3_QAM256, 12_pc3_QAM256, 5_pc3_QAM256, 3_pc3_QAM256, 2_pc3_QAM256, 1_pc3_QAM256, 261_pc3, 260_pc3, 258_pc3, 257_pc3
- Nr FeatureSet DL PerCC: 30KHz_100MHz_4x4_QAM256, 30KHz_100MHz_4x4_QAM256_BW90MHz-supported, 15KHz_20MHz_4x4_QAM256, 30KHz_40MHz_4x4_QAM256, 15KHz_30MHz_2x2_QAM256, 15KHz_15MHz_2x2_QAM256, 15KHz_20MHz_2x2_QAM256, 15KHz_40MHz_4x4_QAM256, 120KHz_100MHz_2x2_QAM64
- Nr FeatureSet UL PerCC: 30KHz_100MHz_QAM256, 30KHz_100MHz_QAM256_BW90MHz-supported, 15KHz_20MHz_QAM256, 30KHz_40MHz_QAM256, 15KHz_30MHz_QAM256, 15KHz_15MHz_QAM256,

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15KHz_40MHz_AM256, 120KHz_100MHz_2x2_QAM64

- LTE/NR Band Comb DL: DC_1A(4x4)_n261M(2x2)|(2x2)|(2x2)|(2x2)|(2x2)|(2x2)|(2x2)|(2x2)
- LTE/NR Band Comb UL: DC_1A_n261G(2x2)|(2x2)
- Manufacturer: Keysight Technologies
- Model: C8700200A Test Application Framework
- UXM SN: MY60192714
- TA version: 15.26.4.54151
- License information: C8700A_D26, N7699A-D26
- Measurement engine: XApps
- 3GPP protocol version: EG50
- RFA version: 6.0.7808.34161
- Start time: 2021-06-11_15-50-14
- End time: 2021-06-11_15-59-46
- Test duration: 00h09m32s

3.3. Test procedure

Step 1. Open the CATR.

Step 2. Insert a SIM card to the DUT.

Step 3. Place the DUT on the positioner, make sure that the maximum power (EIRP) beam faces the reflector directly.

Step 4. Keep the sub6 antenna (Flexible Printed Circuit antenna) away from the QTM module and boot up the DUT.

Step 5. Close the CATR.

Step 6. Run the **RF Auto test** app.

3.4. Test results

3.4.1. 6.2B.1.4.1 UE maximum output power (PC3)

Table 3-2. Test condition 1

Time	2021-06-11T15:51:51
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.2B.1.4.1 UE maximum output power (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Freq [MHz]	27924.96MHz

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LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	QPSK_2
RB allocation	20@22: InnerFull

Table 3-3. Result of testing condition 1

Item	Lower limit	Value	Upper limit	Unit	Status
EIRP	19.53	20.08	43	dBm	Pass
EIRP (Phi)	19.53	17.1	43	dBm	Not set
EIRP (Theta)	19.53	17.03	43	dBm	Not set

3.4.2. 6.3B.1.4 Minimum output power (PC3)

Table 3-4. Test condition 2

Time	2021-06-11T15:51:56
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.3B.1.4 minimum output power (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Freq [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	-13
Others	-
OFDM	DFT
Modulation	QPSK_2
RB allocation	64@0: OuterFull

Table 3-5. Result of testing condition 2

Item	Lower limit	Value	Upper limit	Unit	Status
Min power	-999	-28.15	-10.6	dBm	Pass
Min power (Phi)	-999	-31.45	-10.6	dBm	Not set
Min power (Theta)	-999	-30.89	-10.6	dBm	Not set

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3.4.3. 6.3B.2.4 Transmit OFF power (PC3)

Table 3-6. Test condition 3

Time	2021-06-11T15:52:04
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.3B.2.4 transmit OFF power (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	0
Others	
OFDM	
Modulation	
RB allocation	0@0

Table 3-7. Result of testing condition 3

Item	Lower limit	Value	Upper limit	Unit	Status
Transmit Off Power	NaN	-42.08	-10.6	dBm	Pass
Transmit off power (Phi)	NaN	-44.53	-10.6	dBm	Not set
Transmit off power (Theta)	NaN	-45.73	-10.6	dBm	Not set

3.4.4. 6.4B.1.4 Frequency error (PC3)

Table 3-8. Test condition 4

Time	2021-06-11T15:52:12
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.1.4 frequency error (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE: 10MHz@NR: 100MHz
SCS	120kHz
ARFCN	2077915
Freq [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-

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OFDM	DFT
Modulation	QPSK_2
RB allocation	64@0: OuterFull

Table 3-9. Result of test condition 4 (DL Power: -67dBm)

Item	Lower limit	Value	Upper limit	Unit	Status
Frequency error	-2806.46	NaN	2806.46	Hz	Pass
Frequency error (Phi)	-2806.46	167.26	2806.46	Hz	Not set
Frequency error (Theta)	-2806.46	145.2	2806.46	Hz	Not set

3.4.5. 6.4B.2.4.1 PUSCH error vector magnitude (PC3)

Table 3-10. Test condition 5-1

Time	2021-06-11T15:52:19
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	PI2BPSK_0
RB allocation	20@22: InnerFull

Table 3-11. Result of test condition 5-1

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	30	%	Pass
PUSCH EVM (Phi)	0	4.45	30	%	Not set
PUSCH EVM (Theta)	0	4.43	30	%	Not set
PUSCH DMRS EVM (Phi)	0	2.87	30	%	Not set
PUSCH DMRS EVM (Theta)	0	2.79	30	%	Not set

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Table 3-12. Test condition 5-2

Time	2021-06-11T15:52:16
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	PI2BPSK_0
RB allocation	64@0: OuterFull

Table 3-13. Result of test condition 5-2

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	30	%	Pass
PUSCH EVM (Phi)	0	4.45	30	%	Not set
PUSCH EVM (Theta)	0	4.35	30	%	Not set
PUSCH DMRS EVM (Phi)	0	2.89	30	%	Not set
PUSCH DMRS EVM (Theta)	0	2.87	30	%	Not set

Table 3-14. Test condition 5-3

Time	2021-06-11T15:52:33
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT

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Modulation	QPSK_2
RB allocation	20@22: InnerFull

Table 3-15. Result of test condition 5-3

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	17.5	%	Pass
PUSCH EVM (Phi)	0	4.48	17.5	%	Not set
PUSCH EVM (Theta)	0	4.52	17.5	%	Not set
PUSCH DMRS EVM (Phi)	0	3.04	17.5	%	Not set
PUSCH DMRS EVM (Theta)	0	2.95	17.5	%	Not set

Table 3-16. Test condition 5-4

Time	2021-06-11T15:52:39
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	QPSK_2
RB allocation	64@0: OuterFull

Table 3-17. Result of test condition 5-4

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	17.5	%	Pass
PUSCH EVM (Phi)	0	4.39	17.5	%	Not set
PUSCH EVM (Theta)	0	4.6	17.5	%	Not set
PUSCH DMRS EVM (Phi)	0	2.65	17.5	%	Not set
PUSCH DMRS EVM (Theta)	0	2.62	17.5	%	Not set

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Table 3-18. Test condition 5-5

Time	2021-06-11T15:52:46
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	21
Others	-
OFDM	DFT
Modulation	QAM16_10
RB allocation	20@22: InnerFull

Table 3-19. Result of test condition 5-5

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	12.5	%	Pass
PUSCH EVM (Phi)	0	4.67	12.5	%	Not set
PUSCH EVM (Theta)	0	4.27	12.5	%	Not set
PUSCH DMRS EVM (Phi)	0	3.23	12.5	%	Not set
PUSCH DMRS EVM (Theta)	0	2.69	12.5	%	Not set

Table 3-20. Test condition 5-6

Time	2021-06-11T15:52:53
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	21
Others	-

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OFDM	DFT
Modulation	QAM16_10
RB allocation	64@0: OuterFull

Table 3-21. Result of test condition 5-6

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	12.5	%	Pass
PUSCH EVM (Phi)	0	4.32	12.5	%	Not set
PUSCH EVM (Theta)	0	4.49	12.5	%	Not set
PUSCH DMRS EVM (Phi)	0	2.92	12.5	%	Not set
PUSCH DMRS EVM (Theta)	0	2.96	12.5	%	Not set

Table 3-22. Test condition 5-7

Time	2021-06-11T15:52:59
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	20
Others	-
OFDM	DFT
Modulation	QAM64_18
RB allocation	20@22: InnerFull

Table 3-23. Result of test condition 5-7

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	8	%	Pass
PUSCH EVM (Phi)	0	4.19	8	%	Not set
PUSCH EVM (Theta)	0	4.14	8	%	Not set
PUSCH DMRS EVM (Phi)	0	2.82	8	%	Not set
PUSCH DMRS EVM (Theta)	0	2.74	8	%	Not set

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Table 3-24. Test condition 5-8

Time	2021-06-11T15:53:06
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	20
Others	-
OFDM	DFT
Modulation	QAM64_18
RB allocation	64@0: OuterFull

Table 3-25. Result of test condition 5-8

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	8	%	Pass
PUSCH EVM (Phi)	0	4.35	8	%	Not set
PUSCH EVM (Theta)	0	4.27	8	%	Not set
PUSCH DMRS EVM (Phi)	0	2.88	8	%	Not set
PUSCH DMRS EVM (Theta)	0	3.01	8	%	Not set

Table 3-26. Test condition 5-9

Time	2021-06-11T15:53:17
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT

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Modulation	QPSK_2
RB allocation	22@22: InnerFull

Table 3-27. Result of test condition 5-9

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	17.5	%	Pass
PUSCH EVM (Phi)	0	4.58	17.5	%	Not set
PUSCH EVM (Theta)	0	4.43	17.5	%	Not set
PUSCH DMRS EVM (Phi)	0	4.47	17.5	%	Not set
PUSCH DMRS EVM (Theta)	0	4.25	17.5	%	Not set

Table 3-28. Test condition 5-10

Time	2021-06-11T15:53:24
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	66@0: OuterFull

Table 3-29. Result of test condition 5-10

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	17.5	%	Pass
PUSCH EVM (Phi)	0	4.91	17.5	%	Not set
PUSCH EVM (Theta)	0	4.78	17.5	%	Not set
PUSCH DMRS EVM (Phi)	0	4.65	17.5	%	Not set
PUSCH DMRS EVM (Theta)	0	4.62	17.5	%	Not set

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Table 3-30. Test condition 5-11

Time	2021-06-11T15:53:30
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	21
Others	-
OFDM	CP
Modulation	QAM16_10
RB allocation	22@22: InnerFull

Table 3-31. Result of test condition 5-11

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	12.5	%	Pass
PUSCH EVM (Phi)	0	4.48	12.5	%	Not set
PUSCH EVM (Theta)	0	4.3	12.5	%	Not set
PUSCH DMRS EVM (Phi)	0	4.17	12.5	%	Not set
PUSCH DMRS EVM (Theta)	0	4.36	12.5	%	Not set

Table 3-32. Test condition 5-12

Time	2021-06-11T15:53:37
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	21
Others	-
OFDM	CP

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Modulation	QAM16_10
RB allocation	66@0: OuterFull

Table 3-33. Result of test condition 5-12

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	12.5	%	Pass
PUSCH EVM (Phi)	0	4.69	12.5	%	Not set
PUSCH EVM (Theta)	0	4.47	12.5	%	Not set
PUSCH DMRS EVM (Phi)	0	4.5	12.5	%	Not set
PUSCH DMRS EVM (Theta)	0	4.49	12.5	%	Not set

Table 3-34. Test condition 5-13

Time	2021-06-11T15:53:44
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	20
Others	-
OFDM	CP
Modulation	QAM64_18
RB allocation	22@22: InnerFull

Table 3-35. Result of test condition 5-13

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	8	%	Pass
PUSCH EVM (Phi)	0	4.35	8	%	Not set
PUSCH EVM (Theta)	0	4.32	8	%	Not set
PUSCH DMRS EVM (Phi)	0	4.13	8	%	Not set
PUSCH DMRS EVM (Theta)	0	4.38	8	%	Not set

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Table 3-36. Test condition 5-14

Time	2021-06-11T15:53:50
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.1 PUSCH error vector magnitude (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	20
Others	-
OFDM	CP
Modulation	QAM64_18
RB allocation	66@0: OuterFull

Table 3-37. Result of test condition 5-14

Item	Lower limit	Value	Upper limit	Unit	Status
PUSCH EVM & DMRS EVM	0	NaN	8	%	Pass
PUSCH EVM (Phi)	0	4.52	8	%	Not set
PUSCH EVM (Theta)	0	4.5	8	%	Not set
PUSCH DMRS EVM (Phi)	0	4.39	8	%	Not set
PUSCH DMRS EVM (Theta)	0	4.52	8	%	Not set

3.4.6. 6.4B.2.4.2 Carrier leakage (PC3)

Table 3-38. Test condition 6-1

Time	2021-06-11T15:54:01
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.2 carrier leakage (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	0

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Others	-
OFDM	DFT
Modulation	QPSK_2
RB allocation	16@43: Inner16RBRight

Table 3-39. Result of test condition 6-1

Item	Lower limit	Value	Upper limit	Unit	Status
Carrier leakage	-999	-55.12	-25	dBc	Pass
Carrier leakage (Phi)	-999	-57.7	-25	dBc	Not set
Carrier leakage (Theta)	-999	-58.6	-25	dBc	Not set

Table 3-40. Test condition 6-1

Time	2021-06-11T15:54:09
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.2 carrier leakage (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	-13
Others	-
OFDM	DFT
Modulation	QPSK_2
RB allocation	16@43: Inner16RBRight

Table 3-41. Result of test condition 6-1

Item	Lower limit	Value	Upper limit	Unit	Status
Carrier leakage	-999	-46.36	-20	dBc	Pass
Carrier leakage (Phi)	-999	-49.9	-20	dBc	Not set
Carrier leakage (Theta)	-999	-48.91	-20	dBc	Not set

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3.4.7. 6.4B.2.4.3 PUSCH in-band emissions (PC3)

Table 3-42. Test condition 7-1

Time	2021-06-11T15:54:18
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.3 PUSCH in-band emissions (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	10
Others	-
OFDM	DFT
Modulation	PI2BPSK_0
RB allocation	16@22: Inner16RBLeft

Table 3-43. Result of test condition 7-1

Item	Lower limit	Value	Upper limit	Unit	Status
In-band emissions	0	-46.36	0	dB	Pass
All worst margin (Phi)	NaN	-49.9	0	dB	Not set
General worst margin (Phi)	NaN	-48.91	0	dB	Not set
IQ image worst margin (Phi)	NaN	-6.05	0	dB	Not set
Carrier leakage worst margin (Phi)	NaN	9.910000E+037	0	dB	Not set
All worst margin (Theta)	NaN	-16.61	0	dB	Not set
General worst margin (Theta)	NaN	-16.61	0	dB	Not set
IQ image worst margin (Theta)	NaN	-10.58	0	dB	Not set
Carrier leakage worst margin (Theta)	NaN	9.910000E+037	0	dB	Not set

Table 3-44. Test condition 7-2

Time	2021-06-11T15:54:38
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.3 PUSCH in-band emissions (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915

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Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	10
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	16@22: Inner16RBLeft

Table 3-45. Result of test condition 7-2

Item	Lower limit	Value	Upper limit	Unit	Status
In-band emissions	0	NaN	0	dB	Pass
All worst margin (Phi)	NaN	-16.04	0	dB	Not set
General worst margin (Phi)	NaN	-16.04	0	dB	Not set
IQ image worst margin (Phi)	NaN	-10.61	0	dB	Not set
Carrier leakage worst margin (Phi)	NaN	9.910000E+037	0	dB	Not set
All worst margin (Theta)	NaN	-16.5	0	dB	Not set
General worst margin (Theta)	NaN	-16.61	0	dB	Not set
IQ image worst margin (Theta)	NaN	-10.41	0	dB	Not set
Carrier leakage worst margin (Theta)	NaN	9.910000E+037	0	dB	Not set

Table 3-46. Test condition 7-3

Time	2021-06-11T15:54:45
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.3 PUSCH in-band emissions (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	10
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	16@43: Inner16RBLeft

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Table 3-47. Result of test condition 7-3

Item	Lower limit	Value	Upper limit	Unit	Status
In-band emissions	0	NaN	0	dB	Pass
All worst margin (Phi)	NaN	-16.01	0	dB	Not set
General worst margin (Phi)	NaN	-16.01	0	dB	Not set
IQ image worst margin (Phi)	NaN	-19.69	0	dB	Not set
Carrier leakage worst margin (Phi)	NaN	-26.2	0	dB	Not set
All worst margin (Theta)	NaN	-16.42	0	dB	Not set
General worst margin (Theta)	NaN	-16.42	0	dB	Not set
IQ image worst margin (Theta)	NaN	-20.17	0	dB	Not set
Carrier leakage worst margin (Theta)	NaN	-25.08	0	dB	Not set

Table 3-48. Test condition 7-4

Time	2021-06-11T15:54:57
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.3 PUSCH in-band emissions (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	10
Others	-
OFDM	DFT
Modulation	PI2BPSK_0
RB allocation	16@22: Inner16RBLeft

Table 3-49. Result of test condition 7-4

Item	Lower limit	Value	Upper limit	Unit	Status
In-band emissions	0	NaN	0	dB	Pass
All worst margin (Phi)	NaN	-20.57	0	dB	Not set
General worst margin (Phi)	NaN	-20.57	0	dB	Not set
IQ image worst margin (Phi)	NaN	-12.38	0	dB	Not set
Carrier leakage worst margin (Phi)	NaN	9.910000E+037	0	dB	Not set
All worst margin (Theta)	NaN	-21.37	0	dB	Not set
General worst margin (Theta)	NaN	-21.37	0	dB	Not set
IQ image worst margin (Theta)	NaN	-11.58	0	dB	Not set
Carrier leakage worst margin (Theta)	NaN	9.910000E+037	0	dB	Not set

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Table 3-50. Test condition 7-5

Time	2021-06-11T15:55:05
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.3 PUSCH in-band emissions (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	10
Others	-
OFDM	DFT
Modulation	PI2BPSK_0
RB allocation	16@43: Inner16RBLeft

Table 3-51. Result of test condition 7-5

Item	Lower limit	Value	Upper limit	Unit	Status
In-band emissions	0	NaN	0	dB	Pass
All worst margin (Phi)	NaN	-15.59	0	dB	Not set
General worst margin (Phi)	NaN	-15.59	0	dB	Not set
IQ image worst margin (Phi)	NaN	-16.65	0	dB	Not set
Carrier leakage worst margin (Phi)	NaN	-31.07	0	dB	Not set
All worst margin (Theta)	NaN	-15.76	0	dB	Not set
General worst margin (Theta)	NaN	-15.76	0	dB	Not set
IQ image worst margin (Theta)	NaN	-16.78	0	dB	Not set
Carrier leakage worst margin (Theta)	NaN	-30.4	0	dB	Not set

Table 3-52. Test condition 7-6

Time	2021-06-11T15:55:17
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.3 PUSCH in-band emissions (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz

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LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	10
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	16@22: Inner16RBLeft

Table 3-53. Result of test condition 7-6

Item	Lower limit	Value	Upper limit	Unit	Status
In-band emissions	0	NaN	0	dB	Pass
All worst margin (Phi)	NaN	-15.49	0	dB	Not set
General worst margin (Phi)	NaN	-15.49	0	dB	Not set
IQ image worst margin (Phi)	NaN	-11.46	0	dB	Not set
Carrier leakage worst margin (Phi)	NaN	9.910000E+037	0	dB	Not set
All worst margin (Theta)	NaN	-16.2	0	dB	Not set
General worst margin (Theta)	NaN	-16.2	0	dB	Not set
IQ image worst margin (Theta)	NaN	-11.59	0	dB	Not set
Carrier leakage worst margin (Theta)	NaN	9.910000E+037	0	dB	Not set

Table 3-54. Test condition 7-7

Time	2021-06-11T15:55:25
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.3 PUSCH in-band emissions (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	10
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	16@43: Inner16RBLeft

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Table 3-55. Result of test condition 7-7

Item	Lower limit	Value	Upper limit	Unit	Status
In-band emissions	0	NaN	0	dB	Pass
All worst margin (Phi)	NaN	-14.03	0	dB	Not set
General worst margin (Phi)	NaN	-11.12	0	dB	Not set
IQ image worst margin (Phi)	NaN	-16.54	0	dB	Not set
Carrier leakage worst margin (Phi)	NaN	-29.61	0	dB	Not set
All worst margin (Theta)	NaN	-14.85	0	dB	Not set
General worst margin (Theta)	NaN	-11.9	0	dB	Not set
IQ image worst margin (Theta)	NaN	-17.39	0	dB	Not set
Carrier leakage worst margin (Theta)	NaN	-30.24	0	dB	Not set

3.4.8. 6.4B.2.4.4 EVM equalizer flatness (PC3)

Table 3-56. Test condition 8-1

Time	2021-06-11T15:55:36
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.4 EVM equalizer flatness (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	QPSK_2
RB allocation	64@0: OuterFull

Table 3-57. Result of test condition 8-1

Item	Lower limit	Value	Upper limit	Unit	Status
Ripple	0	NaN	6	dB	Pass
Ripple1 (Phi)	0	0.59	6	dB	Not set
Ripple1 (Theta)	0	1.44	6	dB	Not set
Ripple2 (Phi)	0	0.89	9	dB	Not set
Ripple2 (Theta)	0	1.35	9	dB	Not set

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Table 3-58. Test condition 8-2

Time	2021-06-11T15:55:47
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.4B.2.4.4 EVM equalizer flatness (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	64@0: OuterFull

Table 3-59. Result of test condition 8-2

Item	Lower limit	Value	Upper limit	Unit	Status
Ripple	0	NaN	6	dB	Pass
Ripple1 (Phi)	0	0.59	6	dB	Not set
Ripple1 (Theta)	0	1.37	6	dB	Not set
Ripple2 (Phi)	0	1.05	9	dB	Not set
Ripple2 (Theta)	0	1.37	9	dB	Not set

3.4.9. 6.5B.2.4.1 Spectrum emissions mask (PC3)

Table 3-60. Test condition 9-1

Time	2021-06-11T15:56:00
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23

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Others	-
OFDM	DFT
Modulation	PI2BPSK_0
RB allocation	1@0: Outer1RBLeft

Table 3-61. Result of test condition 9-1

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-19.83	0	dB	Not set
Offset1 H margin	-999	-40.47	0	dB	Not set
Offset2 L margin	-999	-27.38	0	dB	Not set
Offset2 H margin	-999	-30.42	0	dB	Not set
Offset1 L margin (Phi)	-999	-22.09	0	dB	Not set
Offset1 H margin (Phi)	-999	-42.46	0	dB	Not set
Offset2 L margin (Phi)	-999	-29.7	0	dB	Not set
Offset2 H margin (Phi)	-999	-32.7	0	dB	Not set
Offset1 L margin (Theta)	-999	-23.75	0	dB	Not set
Offset1 H margin (Theta)	-999	-44.13	0	dB	Not set
Offset2 L margin (Theta)	-999	-31.21	0	dB	Not set
Offset2 H margin (Theta)	-999	-33.91	0	dB	Not set

Table 3-62. Test condition 9-2

Time	2021-06-11T15:56:09
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	PI2BPSK_0
RB allocation	1@65: Outer1RBRight

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Table 3-63. Result of test condition 9-2

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-39.69	0	dB	Not set
Offset1 H margin	-999	-19.96	0	dB	Not set
Offset2 L margin	-999	-28.68	0	dB	Not set
Offset2 H margin	-999	-27.37	0	dB	Not set
Offset1 L margin (Phi)	-999	-41.93	0	dB	Not set
Offset1 H margin (Phi)	-999	-22.19	0	dB	Not set
Offset2 L margin (Phi)	-999	-31.73	0	dB	Not set
Offset2 H margin (Phi)	-999	-29.4	0	dB	Not set
Offset1 L margin (Theta)	-999	-43.22	0	dB	Not set
Offset1 H margin (Theta)	-999	-23.92	0	dB	Not set
Offset2 L margin (Theta)	-999	-31.65	0	dB	Not set
Offset2 H margin (Theta)	-999	-31.65	0	dB	Not set

Table 3-64. Test condition 9-3

Time	2021-06-11T15:56:18
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	PI2BPSK_0
RB allocation	64@0: OuterFull

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Table 3-65. Result of test condition 9-3

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-29.94	0	dB	Not set
Offset1 H margin	-999	-32.53	0	dB	Not set
Offset2 L margin	-999	-26.49	0	dB	Not set
Offset2 H margin	-999	-27.89	0	dB	Not set
Offset1 L margin (Phi)	-999	-32	0	dB	Not set
Offset1 H margin (Phi)	-999	-34.76	0	dB	Not set
Offset2 L margin (Phi)	-999	-28.7	0	dB	Not set
Offset2 H margin (Phi)	-999	-29.97	0	dB	Not set
Offset1 L margin (Theta)	-999	-34.17	0	dB	Not set
Offset1 H margin (Theta)	-999	-36.47	0	dB	Not set
Offset2 L margin (Theta)	-999	-30.34	0	dB	Not set
Offset2 H margin (Theta)	-999	-31.65	0	dB	Not set

Table 3-66. Test condition 9-4

Time	2021-06-11T15:56:27
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	QPSK_2
RB allocation	1@0: Outer1RBLeft

Table 3-67. Result of test condition 9-4

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-19.29	0	dB	Not set
Offset1 H margin	-999	-40.54	0	dB	Not set
Offset2 L margin	-999	-26.59	0	dB	Not set
Offset2 H margin	-999	-30.15	0	dB	Not set

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Item	Lower limit	Value	Upper limit	Unit	Status
Offset1 L margin (Phi)	-999	-21.41	0	dB	Not set
Offset1 H margin (Phi)	-999	-42.98	0	dB	Not set
Offset2 L margin (Phi)	-999	-28.55	0	dB	Not set
Offset2 H margin (Phi)	-999	-32.39	0	dB	Not set
Offset1 L margin (Theta)	-999	-23.43	0	dB	Not set
Offset1 H margin (Theta)	-999	-43.94	0	dB	Not set
Offset2 L margin (Theta)	-999	-30.51	0	dB	Not set
Offset2 H margin (Theta)	-999	-33.93	0	dB	Not set

Table 3-68. Test condition 9-5

Time	2021-06-11T15:56:36
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	QPSK_2
RB allocation	1@65: Outer1RBRight

Table 3-69. Result of test condition 9-5

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-39.57	0	dB	Not set
Offset1 H margin	-999	-19.26	0	dB	Not set
Offset2 L margin	-999	-28.35	0	dB	Not set
Offset2 H margin	-999	-26.98	0	dB	Not set
Offset1 L margin (Phi)	-999	-42.39	0	dB	Not set
Offset1 H margin (Phi)	-999	-21.39	0	dB	Not set
Offset2 L margin (Phi)	-999	-31.11	0	dB	Not set
Offset2 H margin (Phi)	-999	-29.48	0	dB	Not set
Offset1 L margin (Theta)	-999	-42.78	0	dB	Not set
Offset1 H margin (Theta)	-999	-23.37	0	dB	Not set

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Item	Lower limit	Value	Upper limit	Unit	Status
Offset2 L margin (Theta)	-999	-31.6	0	dB	Not set
Offset2 H margin (Theta)	-999	-30.32	0	dB	Not set

Table 3-70. Test condition 9-6

Time	2021-06-11T15:56:45
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	QPSK_2
RB allocation	64@0: OuterFull

Table 3-71. Result of test condition 9-6

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-30.66	0	dB	Not set
Offset1 H margin	-999	-31.1	0	dB	Not set
Offset2 L margin	-999	-25.12	0	dB	Not set
Offset2 H margin	-999	-25.72	0	dB	Not set
Offset1 L margin (Phi)	-999	-32.73	0	dB	Not set
Offset1 H margin (Phi)	-999	-33.08	0	dB	Not set
Offset2 L margin (Phi)	-999	-27.42	0	dB	Not set
Offset2 H margin (Phi)	-999	-27.94	0	dB	Not set
Offset1 L margin (Theta)	-999	-34.86	0	dB	Not set
Offset1 H margin (Theta)	-999	-35.45	0	dB	Not set
Offset2 L margin (Theta)	-999	-28.97	0	dB	Not set
Offset2 H margin (Theta)	-999	-29.71	0	dB	Not set

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Table 3-72. Test condition 9-7

Time	2021-06-11T15:56:54
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	21
Others	-
OFDM	DFT
Modulation	QAM16_10
RB allocation	1@0: Outer1RBLeft

Table 3-73. Result of test condition 9-7

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-21.19	0	dB	Not set
Offset1 H margin	-999	-40.66	0	dB	Not set
Offset2 L margin	-999	-29.48	0	dB	Not set
Offset2 H margin	-999	-30.83	0	dB	Not set
Offset1 L margin (Phi)	-999	-23.29	0	dB	Not set
Offset1 H margin (Phi)	-999	-42.9	0	dB	Not set
Offset2 L margin (Phi)	-999	-31.88	0	dB	Not set
Offset2 H margin (Phi)	-999	-33.34	0	dB	Not set
Offset1 L margin (Theta)	-999	-25.35	0	dB	Not set
Offset1 H margin (Theta)	-999	-44.51	0	dB	Not set
Offset2 L margin (Theta)	-999	-32.98	0	dB	Not set
Offset2 H margin (Theta)	-999	-34.41	0	dB	Not set

Table 3-74. Test condition 9-8

Time	2021-06-11T15:57:03
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1

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Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	21
Others	-
OFDM	DFT
Modulation	QAM16_10
RB allocation	1@65: Outer1RBRight

Table 3-75. Result of test condition 9-8

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-40.13	0	dB	Not set
Offset1 H margin	-999	-22.61	0	dB	Not set
Offset2 L margin	-999	-30.55	0	dB	Not set
Offset2 H margin	-999	-30.49	0	dB	Not set
Offset1 L margin (Phi)	-999	-42.54	0	dB	Not set
Offset1 H margin (Phi)	-999	-24.83	0	dB	Not set
Offset2 L margin (Phi)	-999	-32.73	0	dB	Not set
Offset2 H margin (Phi)	-999	-32.51	0	dB	Not set
Offset1 L margin (Theta)	-999	-43.23	0	dB	Not set
Offset1 H margin (Theta)	-999	-26.59	0	dB	Not set
Offset2 L margin (Theta)	-999	-33.51	0	dB	Not set
Offset2 H margin (Theta)	-999	-34.17	0	dB	Not set

Table 3-76. Test condition 9-9

Time	2021-06-11T15:57:12
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	21
Others	-

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OFDM	DFT
Modulation	QAM16_10
RB allocation	64@0: OuterFull

Table 3-77. Result of test condition 9-9

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-32.75	0	dB	Not set
Offset1 H margin	-999	-34.29	0	dB	Not set
Offset2 L margin	-999	-26.77	0	dB	Not set
Offset2 H margin	-999	-27.63	0	dB	Not set
Offset1 L margin (Phi)	-999	-34.94	0	dB	Not set
Offset1 H margin (Phi)	-999	-36.52	0	dB	Not set
Offset2 L margin (Phi)	-999	-28.91	0	dB	Not set
Offset2 H margin (Phi)	-999	-29.67	0	dB	Not set
Offset1 L margin (Theta)	-999	-36.76	0	dB	Not set
Offset1 H margin (Theta)	-999	-38.25	0	dB	Not set
Offset2 L margin (Theta)	-999	-30.5	0	dB	Not set
Offset2 H margin (Theta)	-999	-31.85	0	dB	Not set

Table 3-78. Test condition 9-10

Time	2021-06-11T15:57:20
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	20
Others	-
OFDM	DFT
Modulation	QAM64_18
RB allocation	1@0: Outer1RBLeft

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Table 3-79. Result of test condition 9-10

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-21.92	0	dB	Not set
Offset1 H margin	-999	-40.71	0	dB	Not set
Offset2 L margin	-999	-29.44	0	dB	Not set
Offset2 H margin	-999	-31.75	0	dB	Not set
Offset1 L margin (Phi)	-999	-24.3	0	dB	Not set
Offset1 H margin (Phi)	-999	-43.26	0	dB	Not set
Offset2 L margin (Phi)	-999	-31.65	0	dB	Not set
Offset2 H margin (Phi)	-999	-34.12	0	dB	Not set
Offset1 L margin (Theta)	-999	-25.67	0	dB	Not set
Offset1 H margin (Theta)	-999	-44.22	0	dB	Not set
Offset2 L margin (Theta)	-999	-32.96	0	dB	Not set
Offset2 H margin (Theta)	-999	-35.46	0	dB	Not set

Table 3-80. Test condition 9-11

Time	2021-06-11T15:57:29
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	20
Others	-
OFDM	DFT
Modulation	QAM64_18
RB allocation	1@65: Outer1RBRight

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Table 3-81. Result of test condition 9-11

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-40.12	0	dB	Not set
Offset1 H margin	-999	-22.2	0	dB	Not set
Offset2 L margin	-999	-30.62	0	dB	Not set
Offset2 H margin	-999	-29.76	0	dB	Not set
Offset1 L margin (Phi)	-999	-42.48	0	dB	Not set
Offset1 H margin (Phi)	-999	-24.34	0	dB	Not set
Offset2 L margin (Phi)	-999	-33.55	0	dB	Not set
Offset2 H margin (Phi)	-999	-32.47	0	dB	Not set
Offset1 L margin (Theta)	-999	-43.43	0	dB	Not set
Offset1 H margin (Theta)	-999	-26.29	0	dB	Not set
Offset2 L margin (Theta)	-999	-33.53	0	dB	Not set
Offset2 H margin (Theta)	-999	-33.08	0	dB	Not set

Table 3-82. Test condition 9-12

Time	2021-06-11T15:57:38
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	20
Others	-
OFDM	DFT
Modulation	QAM64_18
RB allocation	64@0: OuterFull

Table 3-83. Result of test condition 9-12

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-33.87	0	dB	Not set
Offset1 H margin	-999	-36.93	0	dB	Not set
Offset2 L margin	-999	-29.08	0	dB	Not set
Offset2 H margin	-999	-30.53	0	dB	Not set

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Item	Lower limit	Value	Upper limit	Unit	Status
Offset1 L margin (Phi)	-999	-36.17	0	dB	Not set
Offset1 H margin (Phi)	-999	-39.37	0	dB	Not set
Offset2 L margin (Phi)	-999	-31.31	0	dB	Not set
Offset2 H margin (Phi)	-999	-32.71	0	dB	Not set
Offset1 L margin (Theta)	-999	-37.74	0	dB	Not set
Offset1 H margin (Theta)	-999	-40.59	0	dB	Not set
Offset2 L margin (Theta)	-999	-32.7	0	dB	Not set
Offset2 H margin (Theta)	-999	-34.32	0	dB	Not set

Table 3-84. Test condition 9-13

Time	2021-06-11T15:57:51
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	20
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	1@0: Outer1RBLeft

Table 3-85. Result of test condition 9-13

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-21.19	0	dB	Not set
Offset1 H margin	-999	-40.75	0	dB	Not set
Offset2 L margin	-999	-27.96	0	dB	Not set
Offset2 H margin	-999	-31.77	0	dB	Not set
Offset1 L margin (Phi)	-999	-23.44	0	dB	Not set
Offset1 H margin (Phi)	-999	-43.27	0	dB	Not set
Offset2 L margin (Phi)	-999	-30.17	0	dB	Not set
Offset2 H margin (Phi)	-999	-34.11	0	dB	Not set
Offset1 L margin (Theta)	-999	-25.13	0	dB	Not set
Offset1 H margin (Theta)	-999	-44.16	0	dB	Not set

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Item	Lower limit	Value	Upper limit	Unit	Status
Offset2 L margin (Theta)	-999	-31.81	0	dB	Not set
Offset2 H margin (Theta)	-999	-35.27	0	dB	Not set

Table 3-86. Test condition 9-14

Time	2021-06-11T15:58:00
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	1@65: Outer1RBRight

Table 3-87. Result of test condition 9-14

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-39.83	0	dB	Not set
Offset1 H margin	-999	-21.22	0	dB	Not set
Offset2 L margin	-999	-29.46	0	dB	Not set
Offset2 H margin	-999	-28.64	0	dB	Not set
Offset1 L margin (Phi)	-999	-41.98	0	dB	Not set
Offset1 H margin (Phi)	-999	-23.68	0	dB	Not set
Offset2 L margin (Phi)	-999	-32.43	0	dB	Not set
Offset2 H margin (Phi)	-999	-31.08	0	dB	Not set
Offset1 L margin (Theta)	-999	-43.32	0	dB	Not set
Offset1 H margin (Theta)	-999	-24.87	0	dB	Not set
Offset2 L margin (Theta)	-999	-32.49	0	dB	Not set
Offset2 H margin (Theta)	-999	-32.11	0	dB	Not set

Table 3-88. Test condition 9-15

Time	2021-06-11T15:58:09
System	ENDC FR2
Band combo info	DC_1A_n261A

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Test case	6.5B.2.4.1 Spectrum emissions mask (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	66@0: OuterFull

Table 3-89. Result of test condition 9-15

Item	Lower limit	Value	Upper limit	Unit	Status
SEM	0	NaN	0	dB	Pass
Offset1 L margin	-999	-32.19	0	dB	Not set
Offset1 H margin	-999	-31.9	0	dB	Not set
Offset2 L margin	-999	-25.46	0	dB	Not set
Offset2 H margin	-999	-26.09	0	dB	Not set
Offset1 L margin (Phi)	-999	-34.35	0	dB	Not set
Offset1 H margin (Phi)	-999	-33.89	0	dB	Not set
Offset2 L margin (Phi)	-999	-27.67	0	dB	Not set
Offset2 H margin (Phi)	-999	-28.26	0	dB	Not set
Offset1 L margin (Theta)	-999	-36.26	0	dB	Not set
Offset1 H margin (Theta)	-999	-36.26	0	dB	Not set
Offset2 L margin (Theta)	-999	-29.15	0	dB	Not set
Offset2 H margin (Theta)	-999	-30.14	0	dB	Not set

3.4.10. 6.5B.2.4.3 NR ACLR (PC3)

Table 3-90. Test condition 9-16

Time	2021-06-11T15:58:17
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz

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ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	PI2BPSK_0
RB allocation	1@0: Outer1RBLeft

Table 3-91. Result of test condition 9-16

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-37.95	-12.04	dB	Not set
OffsetA U	-999	-40.74	-12.04	dB	Not set
Reference carrier power	NaN	17.3	NaN	dB	Not set

Table 3-92. Test condition 9-17

Time	2021-06-11T15:58:22
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	PI2BPSK_0
RB allocation	1@65: Outer1RBRight

Table 3-93. Result of test condition 9-17

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-40	-12.04	dB	Not set
OffsetA U	-999	-39.53	-12.04	dB	Not set
Reference carrier power	NaN	17.98	NaN	dB	Not set

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Table 3-94. Test condition 9-18

Time	2021-06-11T15:58:26
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	PI2BPSK_0
RB allocation	64@0: OuterFull

Table 3-95. Result of test condition 9-18

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-36.9	-12.04	dB	Not set
OffsetA U	-999	-38.25	-12.04	dB	Not set
Reference carrier power	NaN	17.77	NaN	dB	Not set

Table 3-96. Test condition 9-19

Time	2021-06-11T15:58:30
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	QPSK_2

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RB allocation	1@0: Outer1RBLeft

Table 3-97. Result of test condition 9-19

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-38.17	-12.04	dB	Not set
OffsetA U	-999	-41.14	-12.04	dB	Not set
Reference carrier power	NaN	17.68	NaN	dB	Not set

Table 3-98. Test condition 9-20

Time	2021-06-11T15:58:34
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	QPSK_2
RB allocation	1@65: Outer1RBRight

Table 3-99. Result of test condition 9-20

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-40.19	-12.04	dB	Not set
OffsetA U	-999	-39.62	-12.04	dB	Not set
Reference carrier power	NaN	18.23	NaN	dB	Not set

Table 3-100. Test condition 9-21

Time	2021-06-11T15:58:39
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz

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SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	DFT
Modulation	QPSK_2
RB allocation	64@0: OuterFull

Table 3-101. Result of test condition 9-21

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-35.79	-12.04	dB	Not set
OffsetA U	-999	-36.48	-12.04	dB	Not set
Reference carrier power	NaN	17.95	NaN	dBm	Not set

Table 3-102. Test condition 9-22

Time	2021-06-11T15:58:43
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	21
Others	-
OFDM	DFT
Modulation	QAM16_10
RB allocation	1@0: Outer1RBLeft

Table 3-103. Result of test condition 9-22

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-36.58	-12.04	dB	Not set
OffsetA U	-999	-39.06	-12.04	dB	Not set
Reference carrier power	NaN	15.47	NaN	dBm	Not set

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Table 3-104. Test condition 9-23

Time	2021-06-11T15:58:47
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	21
Others	-
OFDM	DFT
Modulation	QAM16_10
RB allocation	1@65: Outer1RBRight

Table 3-105. Result of test condition 9-23

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-38.39	-12.04	dB	Not set
OffsetA U	-999	-38.33	-12.04	dB	Not set
Reference carrier power	NaN	16.15	NaN	dBm	Not set

Table 3-106. Test condition 9-24

Time	2021-06-11T15:58:51
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	21
Others	-
OFDM	DFT
Modulation	QAM16_10

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RB allocation	64@0: OuterFull

Table 3-107. Result of test condition 9-24

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-35.72	-12.04	dB	Not set
OffsetA U	-999	-36.79	-12.04	dB	Not set
Reference carrier power	NaN	16.25	NaN	dBm	Not set

Table 3-108. Test condition 9-25

Time	2021-06-11T15:58:56
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	21
Others	-
OFDM	DFT
Modulation	QAM64_18
RB allocation	64@0: OuterFull

Table 3-109. Result of test condition 9-25

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-34.96	-12.04	dB	Not set
OffsetA U	-999	-36.32	-12.04	dB	Not set
Reference carrier power	NaN	14.07	NaN	dBm	Not set

Table 3-110. Test condition 9-26

Time	2021-06-11T15:59:04
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz

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SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	1@0: Outer1RBLeft

Table 3-111. Result of test condition 9-26

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-36.21	-12.04	dB	Not set
OffsetA U	-999	-38.5	-12.04	dB	Not set
Reference carrier power	NaN	14.87	NaN	dBm	Not set

Table 3-112. Test condition 9-27

Time	2021-06-11T15:59:08
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	1@65: Outer1RBRight

Table 3-113. Result of test condition 9-27

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-37.7	-12.04	dB	Not set
OffsetA U	-999	-37.87	-12.04	dB	Not set
Reference carrier power	NaN	15.47	NaN	dBm	Not set

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Table 3-114. Test condition 9-28

Time	2021-06-11T15:59:12
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	6.5B.2.4.3 NR ACLR (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-
OFDM	CP
Modulation	QPSK_2
RB allocation	66@0: OuterFull

Table 3-115. Result of test condition 9-28

Item	Lower limit	Value	Upper limit	Unit	Status
ACLR	-999	NaN	-12.04	dB	Pass
OffsetA L	-999	-34.3	-12.04	dB	Not set
OffsetA U	-999	-35.03	-12.04	dB	Not set
Reference carrier power	NaN	15.77	NaN	dBm	Not set

3.4.11. 7.3B.2.4 Reference sensitivity power level (PC3)

Table 3-116. Test condition 9-29

Time	2021-06-11T15:59:27
System	ENDC FR2
Band combo info	DC_1A_n261A
Test case	7.3B.2.4 Reference sensitivity power level (PC3)
Description	-
Band	n261|B1
Bandwidth	LTE:10MHz@NR:100MHz
SCS	120kHz
ARFCN	2077915
Frequency [MHz]	27924.96MHz
LTESCC info	LTE: DLARFCN_300|EIP_15|QPSK_2|0_50
Expected power [dBm]	23
Others	-

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OFDM	DFT
Modulation	DL QPSK_4: UL QPSK_2
RB allocation	UL 64@0: OuterFull|DL 66@0: FullRB

Table 3-117. Result of test condition 9-29 (DL Power -82.96dBm/BW)

Item	Lower limit	Value	Upper limit	Unit	Status
Throughput @ -82.96dBm	0	100	95	%	Pass

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