

Measurement Report

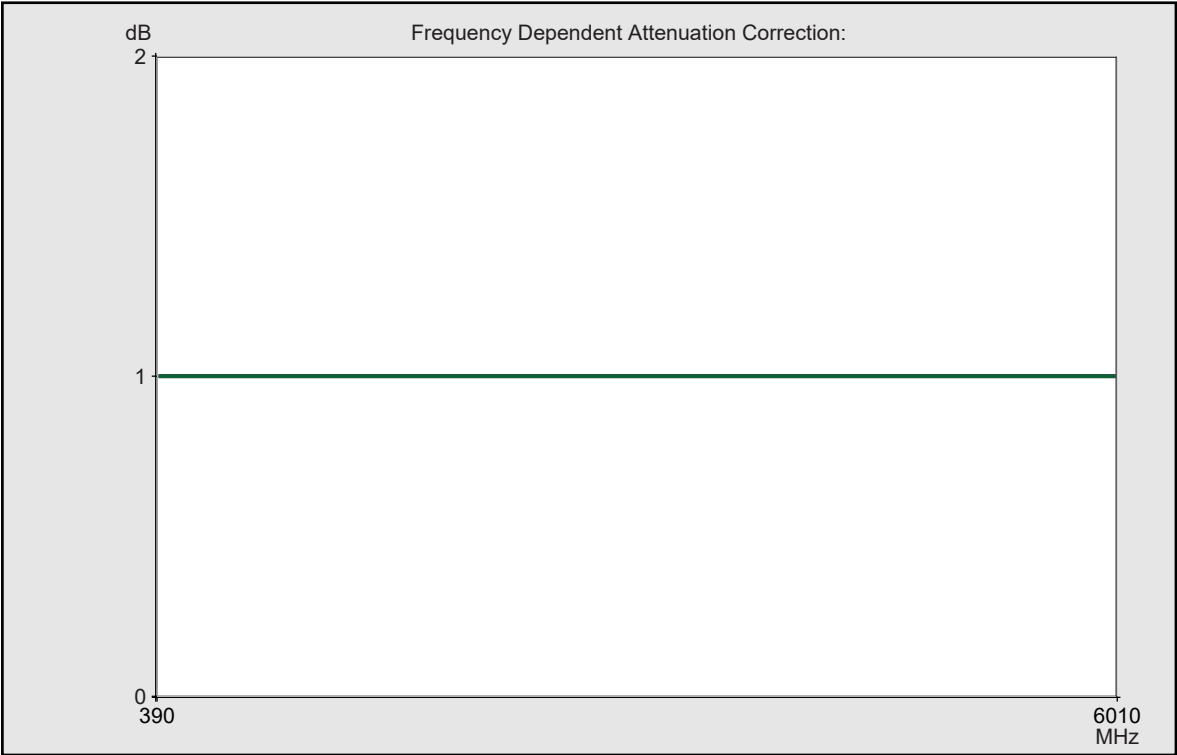
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Summary:

Test Start Time:	03/02/2016 13:53:31
Test End Time:	03/02/2016 14:36:49
Total Test Time:	00:43:18
Weighted Test Time:	00:43:18
Tests Passed:	265
Tests Failed:	8
Number of Tests:	284
Errors:	0
Warnings:	0

Basic Initiation: Initialization of Instrument.*Instrument reset:**CMW - Done !***Attenuation Tables: Set Tables**

Frequency Dependent Attenuation Correction			Table		
Connector (Set)					
RF1 COM:IN			"Const_1dB"		
RF1 COM:OUT			"Const_1dB"		
RF1 OUT			"Const_1dB"		
RF2 COM:IN			"Const_1dB"		
RF2 COM:OUT			"Const_1dB"		
RF3 COM:IN			""		
RF3 COM:OUT			""		
RF3 OUT			""		
RF4 COM:IN			""		
RF4 COM:OUT			""		



Legend:

- RF1 COM IN: "Const_1dB"
- RF1 COM OUT: "Const_1dB"
- RF1 OUT: "Const_1dB"
- RF2 COM IN: "Const_1dB"
- RF2 COM OUT: "Const_1dB"

LTE Call Setup: Base Station Configuration*LTE TDD, Band38**DL Channel 37800, DL Frequency 2575, DL Cell Bandwidth 10.0 MHz**UL Channel 37800, UL Frequency 2575, UL Cell Bandwidth 10.0 MHz**Connection Type: Testmode**Call Direction: CMW -> Mobile**Scenario: SISO**Type: RMC**RMC DL RB: 50**RMC UL RB: 50**RMC DL RB Position: Low**RMC UL RB Position: Low**RMC DL Modulation: QPSK**RMC UL Modulation: QPSK**RMC DL TBS Index: 6**RMC UL TBS Index: 6***LTE Call Setup: Base Station Enable***Base Station Enabled in 0.7s***LTE Call Setup: Power On Mobile Box****LTE Call Setup: Attach Process**

Attach Process		Timeout	Elapsed Time	Unit	Status
Attached		60	16.6	s	Passed

LTE Call Setup: DUT Info

Test Item		Comparison	Measured	Unit	Status
DUT Info					
IMEI	---	---	860719030009132	---	Passed

LTE Call Setup: Call Process

Call Process		Timeout	Elapsed Time	Unit	Status
Connection Established		30	0.2	s	Passed

LTE 3GPP V9.7 Test Cases: According to User Configuration

6.2.2 Maximum Output Power	Limit Low	Limit High	Measured	Unit	Status
6.2.2 Maximum Output Power @ Band38					
UE Maximum OutputPower: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: QPSK, 1 (RB_Pos:LOW)	20.30	25.70	23.37	dBm	Passed
UE Maximum OutputPower: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	20.30	25.70	23.13	dBm	Passed
UE Maximum OutputPower: :@ULCH: 38000, BW: 10 MHz ;	20.30	25.70	23.43	dBm	Passed

UL_MOD_RB: QPSK, 1 (RB_Pos:LOW)					
UE Maximum OutputPower: :@ULCH: 38000, BW: 10 MHz ; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	20.30	25.70	23.43	dBm	Passed

6.2.3 Maximum Power Reduction	Limit Low	Limit High	Measured	Unit	Status
6.2.3 Maximum Power Reduction @ Band38					
UE Maximum OutputPower: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	20.30	25.70	23.16	dBm	Passed
UE Maximum OutputPower: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: QPSK, 12 (RB_Pos:HIGH)	20.30	25.70	22.87	dBm	Passed
UE Maximum OutputPower: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: QPSK, 50 (RB_Pos:LOW)	19.30	25.70	22.06	dBm	Passed
UE Maximum OutputPower: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: Q16, 12 (RB_Pos:LOW)	19.30	25.70	22.10	dBm	Passed
UE Maximum OutputPower: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: Q16, 12 (RB_Pos:HIGH)	19.30	25.70	21.97	dBm	Passed
UE Maximum OutputPower: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: Q16, 50 (RB_Pos:LOW)	18.30	25.70	21.06	dBm	Passed
UE Maximum OutputPower: :@ULCH: 38000, BW: 10 MHz ; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	20.30	25.70	23.41	dBm	Passed
UE Maximum OutputPower: :@ULCH: 38000, BW: 10 MHz ; UL_MOD_RB: QPSK, 12 (RB_Pos:HIGH)	20.30	25.70	23.08	dBm	Passed
UE Maximum OutputPower: :@ULCH: 38000, BW: 10 MHz ; UL_MOD_RB: QPSK, 50 (RB_Pos:LOW)	19.30	25.70	22.21	dBm	Passed
UE Maximum OutputPower: :@ULCH: 38000, BW: 10 MHz ; UL_MOD_RB: Q16, 12 (RB_Pos:LOW)	19.30	25.70	22.18	dBm	Passed
UE Maximum OutputPower: :@ULCH: 38000, BW: 10 MHz ; UL_MOD_RB: Q16, 12 (RB_Pos:HIGH)	19.30	25.70	22.05	dBm	Passed
UE Maximum OutputPower: :@ULCH: 38000, BW: 10 MHz ; UL_MOD_RB: Q16, 50 (RB_Pos:LOW)	18.30	25.70	21.19	dBm	Passed

6.3.2 Minimum Output Power	Limit Low	Limit High	Measured	Unit	Status
6.3.2 Minimum Output Power @ Band38					
UE Minimum OutputPower: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: QPSK, 50 (RB_Pos:HIGH)	---	-39.00	-44.31	dBm	Passed
UE Minimum OutputPower: :@ULCH: 38000, BW: 10 MHz ; UL_MOD_RB: QPSK, 50 (RB_Pos:HIGH)	---	-39.00	INV	dBm	Failed

6.5.1 Frequency Error	Limit Low	Limit High	Measured	Unit	Status
6.5.1 Frequency Error @ Band38					

Frequency Error: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: QPSK, 50 (RB_Pos:HIGH)	-272.50	272.50	-4.59 Hz	Passed
Frequency Error: :@ULCH: 38000, BW: 10 MHz ; UL_MOD_RB: QPSK, 50 (RB_Pos:HIGH)	-274.50	274.50	-8.21 Hz	Passed

6.5.2.1 Error Vector Magnitude (EVM) for PUSCH	Limit Low	Limit High	Measured	Unit	Status
6.5.2.1 Error Vector Magnitude (EVM) for PUSCH @ Band38					
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	---	17.50	2.35	%	Passed
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	---	17.50	2.08	%	Passed
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIGH)	---	17.50	2.35	%	Passed
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIGH)	---	17.50	2.23	%	Passed
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 50 (RB_Pos:LOW)	---	17.50	2.91	%	Passed
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 50 (RB_Pos:LOW)	---	17.50	2.81	%	Passed
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:LOW)	---	12.50	2.64	%	Passed
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:LOW)	---	12.50	2.27	%	Passed
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:HIGH)	---	12.50	2.79	%	Passed
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:HIGH)	---	12.50	2.43	%	Passed
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 50 (RB_Pos:LOW)	---	12.50	3.13	%	Passed
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 50 (RB_Pos:LOW)	---	12.50	2.91	%	Passed
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	---	17.50	2.04	%	Passed
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	---	17.50	1.87	%	Passed
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIGH)	---	17.50	1.97	%	Passed
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIGH)	---	17.50	1.78	%	Passed
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8	---	17.50	4.10	%	Passed

dBm; UL_MOD_RB: QPSK, 50 (RB_Pos:LOW)					
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: QPSK, 50 (RB_Pos:LOW)	---	17.50	3.91	%	Passed
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:LOW)	---	12.50	2.04	%	Passed
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:LOW)	---	12.50	1.81	%	Passed
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:HIGH)	---	12.50	2.02	%	Passed
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:HIGH)	---	12.50	1.77	%	Passed
PUSCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 50 (RB_Pos:LOW)	---	12.50	4.02	%	Passed
PUSCH EVM DMRS: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 50 (RB_Pos:LOW)	---	12.50	3.91	%	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	---	17.50	2.60	%	Passed
PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	---	17.50	2.43	%	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIGH)	---	17.50	2.61	%	Passed
PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIGH)	---	17.50	2.44	%	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 50 (RB_Pos:LOW)	---	17.50	3.06	%	Passed
PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: QPSK, 50 (RB_Pos:LOW)	---	17.50	2.97	%	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:LOW)	---	12.50	2.87	%	Passed
PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:LOW)	---	12.50	2.47	%	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:HIGH)	---	12.50	2.85	%	Passed
PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:HIGH)	---	12.50	2.53	%	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 50 (RB_Pos:LOW)	---	12.50	3.41	%	Passed
PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; UL_MOD_RB: Q16, 50 (RB_Pos:LOW)	---	12.50	3.12	%	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	---	17.50	2.21	%	Passed

PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	---	17.50	2.08 %	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIGH)	---	17.50	2.17 %	Passed
PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIGH)	---	17.50	1.99 %	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: QPSK, 50 (RB_Pos:LOW)	---	17.50	4.16 %	Passed
PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: QPSK, 50 (RB_Pos:LOW)	---	17.50	4.04 %	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:LOW)	---	12.50	2.14 %	Passed
PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:LOW)	---	12.50	1.82 %	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:HIGH)	---	12.50	2.11 %	Passed
PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 12 (RB_Pos:HIGH)	---	12.50	1.78 %	Passed
PUSCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 50 (RB_Pos:LOW)	---	12.50	4.06 %	Passed
PUSCH EVM DMRS: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; UL_MOD_RB: Q16, 50 (RB_Pos:LOW)	---	12.50	3.96 %	Passed

6.5.2.1 Error Vector Magnitude (EVM) for PUCCH	Limit Low	Limit High	Measured	Unit	Status
6.5.2.1 Error Vector Magnitude (EVM) for PUCCH @ Band38					
PUCCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8 dBm; DL_MOD_RB: QPSK, N16	---	17.50	1.20	%	Passed
PUCCH EVM: :@ULCH: 37800, BW: 10 MHz , ULPower: 23 dBm; DL_MOD_RB: QPSK, N16	---	17.50	1.17	%	Passed
PUCCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: -36.8 dBm; DL_MOD_RB: QPSK, N16	---	17.50	1.40	%	Passed
PUCCH EVM: :@ULCH: 38000, BW: 10 MHz , ULPower: 23 dBm; DL_MOD_RB: QPSK, N16	---	17.50	1.40	%	Passed

6.5.2.1 Error Vector Magnitude (EVM) for PRACH	Limit Low	Limit High	Measured	Unit	Status
6.5.2.1 Error Vector Magnitude (EVM) for PRACH@ Band38					
PRACH EVM @ testponit1: :@ULCH: 37800, BW: 10 MHz ; ULPower: -999.00	---	17.50	INV %		Failed

PRACH EVM @ testponit2: :@ULCH: 37800, BW: 10 MHz ; ULPower: 15.05	---	17.50	2.04 %	Passed
PRACH EVM @ testponit1: :@ULCH: 38000, BW: 10 MHz ; ULPower: -999.00	---	17.50	INV %	Failed

6.5.2.1A PUSCH Error Vector Magnitude (EVM) with exclusion period	Limit Low	Limit High	Measured	Unit	Status
6.5.2.1A PUSCH Error Vector Magnitude (EVM) with exclusion period @ Band38					
PUSCH EVM with exclusion period for mixed RB allocations: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: QPSK, 12	---	17.50	2.29	%	Passed
PUSCH EVM with exclusion period for mixed RB allocations: :@ULCH: 37800, BW: 10 MHz ; UL_MOD_RB: Q16, 12	---	12.50	2.75	%	Passed
PUSCH EVM with exclusion period for mixed RB allocations: :@ULCH: 38000, BW: 10 MHz ; UL_MOD_RB: QPSK, 12	---	17.50	2.43	%	Passed
PUSCH EVM with exclusion period for mixed RB allocations: :@ULCH: 38000, BW: 10 MHz ; UL_MOD_RB: Q16, 12	---	12.50	3.07	%	Passed

6.5.2.3 In-band Emissions for Non Allocated RB for PUSCH	Limit Low	Limit High	Measured	Unit	Status
6.5.2.3 In-band Emissions for Non Allocated RB for PUSCH @Band38					
In-band emissions-Margin: :@ULCH: 37800, BW: 10 MHz , ULPower: 3.2dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	0.00	---	10.35	dB	Passed
In-band emissions-Margin: :@ULCH: 37800, BW: 10 MHz , ULPower: 3.2dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIG)	0.00	---	10.06	dB	Passed
In-band emissions-Margin: :@ULCH: 37800, BW: 10 MHz , ULPower: -26.8dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	0.00	---	10.76	dB	Passed
In-band emissions-Margin: :@ULCH: 37800, BW: 10 MHz , ULPower: -26.8dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIG)	0.00	---	10.17	dB	Passed
In-band emissions-Margin: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	0.00	---	19.26	dB	Passed
In-band emissions-Margin: :@ULCH: 37800, BW: 10 MHz , ULPower: -36.8dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIG)	0.00	---	18.82	dB	Passed
In-band emissions-Margin: :@ULCH: 38000, BW: 10 MHz , ULPower: 3.2dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	0.00	---	8.96	dB	Passed
In-band emissions-Margin: :@ULCH: 38000, BW: 10 MHz , ULPower: 3.2dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIG)	0.00	---	9.50	dB	Passed
In-band emissions-Margin: :@ULCH: 38000, BW: 10 MHz , ULPower: -26.8dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:LOW)	0.00	---	9.82	dB	Passed
In-band emissions-Margin: :@ULCH: 38000, BW: 10 MHz , ULPower: -26.8dBm; UL_MOD_RB: QPSK, 12 (RB_Pos:HIG)	0.00	---	11.23	dB	Passed

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