	C	D	E	F	G	H	I	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	**For use by Device Maker**	**Device type: OBU RSU _____**	**Maker:**					**Test System:**											
2	**Test Case Name (TP-... _)**	**Test Case Description**	**V2V OBU SC**	**V2V OBU MC**	**V2V OBU VAD**	**V2I RSU**	**Module**	**7layers**	**Spirent**	**Danlaw**	**Dekra**	**Intertek**	**UL**	**Anritsu**	**Keysight**	**3M**	**Marben**	**Leidos**	**Comments**
3	80211-RXT-MAC-BV-01	IUT receives MAC frame	R	R	R	R	R												
4	80211-TXT-MAC-BV-01	MAC transmit frame format	R	R		R	R												
5	80211-TXT-PHY-BV-01	Transmit spectral mask	R	R		R	R												
6	80211-TXT-PHY-BV-02	center frequency tolerance	R	R		R	R												
7	80211-TXT-PHY-BV-03	symbol clock frequency tolerance	R	R		R	R												
8	80211-TXT-PHY-BV-04	Constellation RMS error & modulation accuracy	R	R		R	R												
9	80211-TXT-PHY-BV-05	Observed power is within spectral flatness	R	R		R	R												
10	80211-TXT-PHY-BV-06	Transmitter center frequency leakage	R	R		R	R												
11	80211-TXT-PHY-BV-07	Transmitter power is a monotonically increasing	R	R		R	R												
12	80211-RXT-PHY-BV-01	Receiver minimum input sensitivity	R	R	R	R	R												
13	80211-RXT-PHY-BV-02	OFDM adjacent channel rejection	R	R		R	R												
14	80211-RXT-PHY-BV-03	OFDM non adjacent channel rejection	R	R		R	R												
15	80211-RXT-PHY-BV-04	Receiver maximum input level	R	R	R	R	R												
16	80211-RXT-PHY-BV-05	Received channel power indicator	R	R	R	R	R												
17	**1609.2 testing**																		
18	16092-SPDUBSM-SEND-BV-01	BSM Security Header	R	R															
19	16092-SPDUBSM-SEND-BV-02	BSM digitally signed certificate	R	R															
20	16092-SPDUBSM-SEND-BV-03	BSM digitally signed digest	R	R															
21	16092-SPDUBSM-SEND-BV-04	BSM certificate per vMaxCertDigestInterval.	R	R															
22	16092-SPDUBSM-SEND-BV-05	BSM digest with valid signature	R	R															
23	16092-SPDUBSM-SEND-BV-06	BSM certificate with valid signature	R	R															
24	16092-SPDUBSM-RECV-BV-01	IUT acknowledges valid BSM security header.	R	R	R	R													
25	16092-SPDUBSM-RECV-BV-02	IUT acknowledges valid BSM implicit certificate.	R	R	R	R													
26	16092-SPDUBSM-RECV-BV-03	IUT acknowleges valid BSM signed digest.	R	R	R	R													
27	16092-SPDUBSM-RECV-BV-04	IUT acknowledges valid BSM's certificate generationTime & Expiration Time	R	R	R	R													
28	16092-SPDUBSM-RECV-BV-05	IUT acknowledges BSM's Digest generationTime & Expiration Time	R	R	R	R													
29	16092-SPDUBSM-CERTCHG-BV-01	BSM's vCertChangeInterval Changes	R	R															
30	16092-SPDUBSM-RECV-BI-01	IUT acknowledges invalid BSM with incorrect digest signature.	R	R	R	R													
31	16092-SPDUBSM-RECV-BI-02	IUT acknowledges invalid BSM with incorrect certificate signature.	R	R	R	R													
32	16092-SPDUWSA-SEND-BV-01	IUT generates correct WSA security header.				R													
33	16092-SPDUWSA-SEND-BV-02	IUT generates correct WSA certificate data structure.				R													
34	16092-SPDUWSA-SEND-BV-03	IUT generates WSA's signed digest of known certificate.				R													
35	16092-SPDUWSA-SEND-BV-04	IUT generates WSA's Signed Certificate & Signature				R													
36	16092-SPDUWSA-RECV-BV-01	IUT acknowledge valid WSA security header.	R	R		R													
37	16092-SPDUWSA-RECV-BV-02	IUT acknowledges valid implicit certificate signed WSA.	R	R		R													
38	16092-SPDUWSA-RECV-BV-03	IUT acknowledges valid WSA signed digest of known certificate.	R	R		R													
39	16092-SPDUWSA-RECV-BI-01	IUT acknowledges invalid WSA w/incorrect cert signature & not transmit.	Info	Info		Info													
40	**1609.3 testing**																		
41	16093-WSM-MST-BV-01	IUT transmits WSM Correct Version & EtherType.	R	R		R													
42	16093-WSM-MST-BV-02	IUT transmits valid WSM-T-Header & PSID	R	R		R													
43	16093-WSM-ROP-BV-01	IUT transmits valid WSM CH N-Header	R	R		R													
44	16093-WSM-ROP-BV-02	IUT transmits valid WSM Data Rate N-Header	R	R		R													
45	16093-WSM-ROP-BV-03	IUT transmits valid WSM Transmit Power-N-Header	R	R		R													
46	16093-WSM-PP-BV-01	IUT receives WSM without Header extensions	R	R	R	R													
47	16093-WSM-PP-BV-02	IUT receives WSM with Header extensions	R	R	R	R													
48	16093-WSM-COM-BV-01	IUT transmits WSMs in continuous mode	R	R		R													
49	16093-WSM-COM-BV-02	IUT receives WSMs in continuous mode	R	R	R	R													
50	16093-WSM-COM-BV-03	IUT transmits in alternating mode CH1 & CH2 (TS1&2)		R		R													
51	16093-WSM-COM-BV-04	IUT transmits on CH1 & receive on CH2		R		R													
52	16093-WSM-COM-BV-05	IUT acknowledges WSMs in altern. mode CH1 and CH2		R		R													
53	16093-WSM-POP-BI-01	IUT does not transmit WSMs exceeding WsmMaxLength	R	R		R													
54	16093-WSA-MST-BV-01	IUT transmits WSMs with a WSM header for the WSA				R													
55	16093-WSA-MST-BV-02	IUT transmits WSA correct version & valid header				R													
56	16093-WSA-MST-BV-03	IUT transmits signed WSAs				R													
57	16093-WSA-MST-BV-04-X	IUT transmits WSA Header fields				R													
58	16093-WSA-MST-BV-05-X	IUT transmits WSA Service Info Segment				R													
59	16093-WSA-MST-BV-06-X	IUT transmits WSA Channel Info Segment				R													
60	16093-WSA-MST-BV-07-X	IUT transmits WSA WRA Segment				R													
61	16093-WSA-MST-BV-08	IUT transmits WSA valid 2D Location				R													
62	16093-WSA-PP-BV-01	IUT acknowleges secure WSAs Header Extensions	R	R															
63	16093-WSA-PP-BV-02	IUT acknowledges WSAs Service Info Segment	R	R															
64	16093-WSA-PP-BV-03	IUT acknwlegdes WSAs Channel Info Segment	R	R															
65	16093-WSA-PP-BV-04	IUT acknowledges WSAs WRA	R	R															
66	16093-WSA-ROP-BV-01	IUT transmits WSA at a specified repeat rate.				R													
67	16093-WSA-CHG-BV-01	IUT changes WSA when PSC changes				R													
68	16093-WSA-CHG-BV-02	IUT changes WSA when service deleted				R													
69	16093-IP-CFG-BV-01	IUT use WRA to configure its global IPv6 address.		R															
70	16093-IP-CFG-BV-02	IUT configures link-local and global IPv6.		R		R													
71	16093-IP-CHG-BV-01	IUT resets link-local IPv6 address to a specific value		R															
72	16093-IP-CHG-BV-02	IUT resets IPv6 address		R															
73	16093-IP-COM-BV-01	IUT initiates a 2-way IPV6 to Remote Host on a different subnet.		R		R													
74	16093-IP-COM-BV-02	IUT initiates a 2-way IPV6 to Host using link-local address.		R		R													

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1	**For use by Device Maker**	**Device type: OBU RSU _____**	**Maker:**					**Test System:**											
2	**Test Case Name (TP-... _)**	**Test Case Description**	**V2V OBU SC**	**V2V OBU MC**	**V2V OBU VAD**	**V2I RSU**	**Module**	**7layers**	**Spirent**	**Danlaw**	**Dekra**	**Intertek**	**UL**	**Anritsu**	**Keysight**	**3M**	**Marben**	**Leidos**	**Comments**
75	**1609.4 testing**																		
76	16094-RXT-MDE-BV-01	IUT acknowledges WSMs in continuous mode	R	R	R	R													
77	16094-RXT-MDE-BV-02	IUT ackowledges WSMs in alternating mode		R		R													
78	16094-TXT-MDE-BV-01	IUT transmits WSMs in continuous mode on a selected channel	R	R		R													
79	16094-TXT-MDE-BV-02	IUT transmits WSMs in alternating mode on CH1 & CH2 (time slots 1 &2?)		R		R													
80	16094-TXT-IP6-BV-01	IUT transmits IPv6s on service channel		O		O													
81	16094-TXT-PER-BV-01	IUT transmits WSMs and receive IPv6 in alternating mode		O		O													
82	16094-TXT-PER-BV-02	IUT transmits WSMs IUT and IPv6 in alternating mode		O		O													
83	16094-TXT-PER-BV-03	IUT transmits WSMs and uses valid channel identifier	Info	Info		Info													
84	**J2745/1 testing**																		
86	BSM-ST-BV-01-X	DE_VehicleEventFlags if an event is occurring	R	R															
87	BSM-ST-BV-02	First BSM transmitted after device restart uses a random time	R	R															
88	BSM-ST-BV-03-X	Transmits BSM Correct Contents & Parameters	R	R															
89	BSM-ST-BV-04	BSMs generated randomly of their scheduled generation time?	R	R															
90	BSM-ST-BV-06	MsgCount incremented/rollover & TemporaryID not changed	R	R															
91	BSM-ST-BV-07	Identification data randomized after device restart	R	R															
92	BSM-ST-BV-08	IUT signs every BSM includes attached certificate or digest.	R	R															
93	BSM-ST-BV-09	IUT Certificate after vMaxCertDigestInterval	R	R															
94	BSM-ST-BV-10-X	IUT certificate attached when a Critical Event Flag occurs	R	R															
95	BSM-ST-BV-13	After a device startup, the 1st BSM transmitted contain certificate	R	R															
96	BSM-ST-BV-18	Data retention across IUT restart	R	R															
97	BSM-ST-BI-19	IUT does not send data elements not required per J2945/1	R	R															
98	BSM-ST-BV-20-V	IUT's System Clock UTC Synchronized	R	R	R														
99	BSM-ST-BV-21-V	Message Transmissions Timing	R	R															
100	----BSM with security certificates																		
101	BSM-ST-BV-05	Identification data randomized after certificate expiration	R	R															
102	BSM-ST-BV-11	IUT does not transmit BSMs if no certificates available	R	R															
103	BSM-ST-BV-12	IUT does not transmit BSMs with certificates on a CRL	Info	Info															
104	BSM-ST-BV-14-V	Certificates Storage	Info	Info	Info														
121	BSM-MV-BV-12	WheelBrakes value when 1 braking status occurs	Info	Info															
122	BSM-MV-BV-13	Vehicle transmission is reported if available	Info	Info															
123	BSM-MV-BV-14	Vehicle length and width values accurate	Info	Info															
124	**RSU testing (COC)**																		
152	**RSU testing (Leidos)**																		
153	RSU-POS-FUN-BV-02	Verify RSE system clock conforms to the UTC timing																	
154	RSU-POS-FUN-BV-03	Verify RSE system clock is based off timing information from internal GPS																	
155	RSU-MSG-BV-04	RSE changes message transmit parameters when the RSU IFM proxy configuration is altered																	
156	RSU-SNMP-FUN-BV-01	RSE forwards WSMs received on any DSRC interface																	
157	RSU-SNMP-OPR-BV-01	Authorized user can perform a MIB walk on the SNMPv3 MIB, MIB changes are retained after power cycled.																	
158	RSU-SNMP-POS-BV-01	RSE notifies a remote host via SNMPv3 if its GPS position deviates from the stored reference																	
159	RSU-SNMP-SAR-BV-01	RSE changes message transmit parameters when the RSU IFM proxy configuration is altered																	
160	RSU-WSA-FUN-BV-01	Verify RSE transmits WSA with SCH Services from WSA MIB																	
161	RSU-WSA-FUN-BV-02	Verify RSE transmits WSA with SCH Services based on SRM in MIB																	
162	BNCH-PHY-01	RSU inspection																	
163	BNCH-MP IF-10	immediate forward messages, BSM forward																	
164	BNCH-PoS-02 & 03ab	GPS reporting																	
165	BNCH-Sec A&A-13	create SNMP users																	
166	BNCH-SNMP O&M-19	MIB check and write																	
167	BNCH-SNMP Walk-18	SNMP Walk																	
168	**J2735 Message Decoding & Testing**																		
169	J2735 & J2945/1	Transmit BSMs	R	R	R														
170	J2735	Receive BSMs	R	R	R	R													
171	IEEE 1609.3	Transmit WSAs				R													
172	IEEE 1609.3	Receive WSAs	R	R	R	R													
173	J2735	Transmit SPaT				R													
174	J2735	Receive SPaT	R	R	R														
175	J2735	Transmit TIM				R													
176	J2735	Receive TIM	R	R	R														
177	J2735	Transmit RTCM				R													
178	J2735	Receive RTCM	R	R	R														
179																			
180																			
181																			
182																			
183																			
184																			
185	**Comments:**																		