

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071619\  
 Data File : VD063114.D  
 Acq On : 16 Jul 2019 18:45  
 Operator : VA/AP  
 Sample : K3622-07  
 Misc : 6.75µ/5ml/MSVOA D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OR-03-071519-B

Quant Time: Jul 17 07:37:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D071519S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 16 08:11:56 2019  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	598652	50.00	µg/l	0.00
34) 1,4-Difluorobenzene	8.21	114	783204	50.00	µg/l	0.00
63) Chlorobenzene-d5	12.37	117	491220	50.00	µg/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	189234	50.00	µg/l	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.44	65	333913	44.78	µg/l	0.00
Spiked Amount	50.000		Recovery	=	89.56%	
35) Dibromofluoromethane	6.91	113	365731	46.88	µg/l	0.00
Spiked Amount	50.000		Recovery	=	93.76%	
50) Toluene-d8	10.41	98	436843	26.07	µg/l	0.00
Spiked Amount	50.000		Recovery	=	52.14%	
62) 4-Bromofluorobenzene	13.55	95	254139	32.78	µg/l	0.00
Spiked Amount	50.000		Recovery	=	65.56%	

## Target Compounds

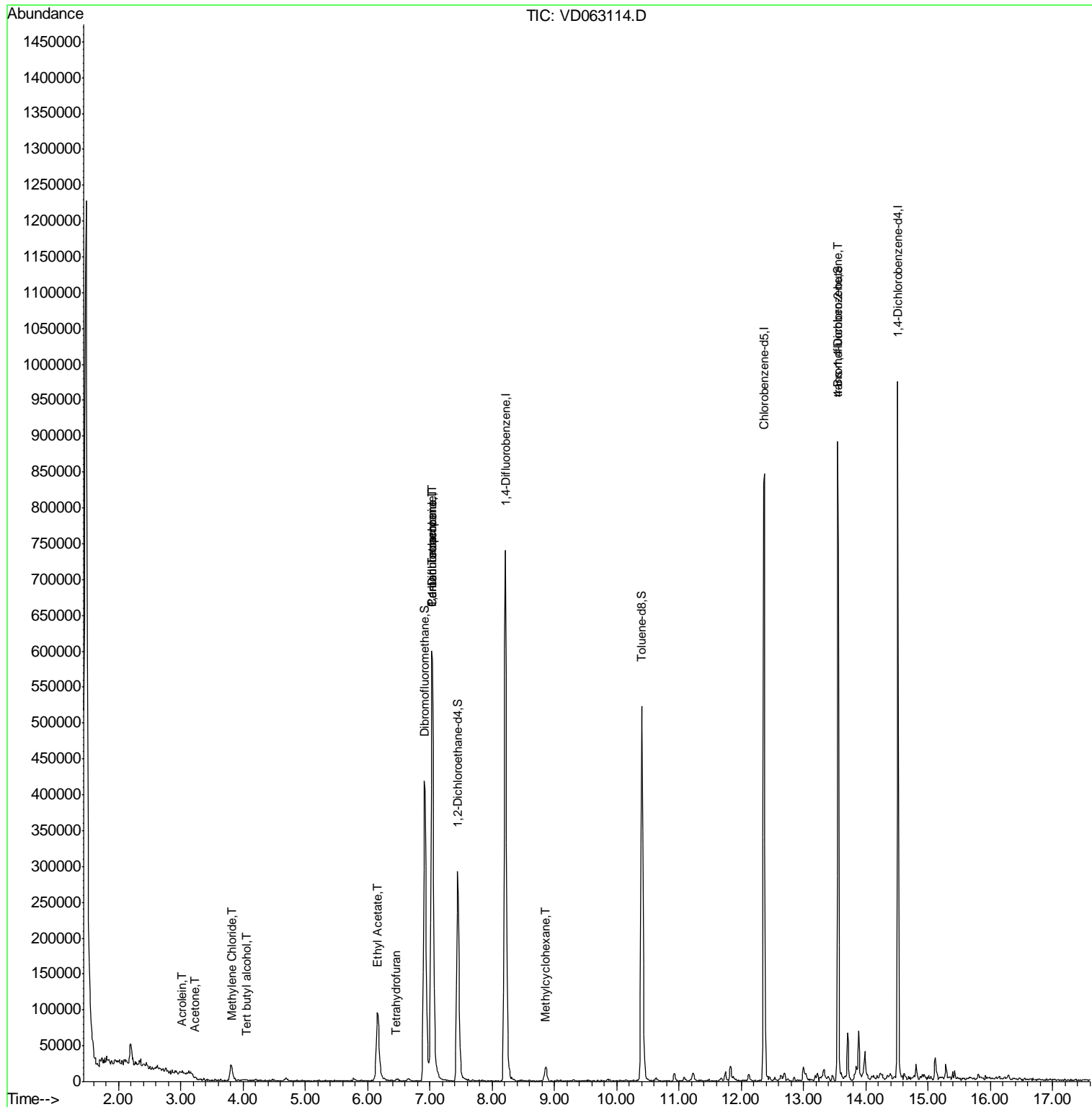
	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	526	Below Cal	#	43
3) Chloromethane	1.75	50	828	Below Cal	#	48
5) Bromomethane	2.14	94	1460	Below Cal	#	13
11) Tert butyl alcohol	4.06	59	1271	2.953	µg/l #	77
13) Acrolein	3.01	56	505	3.888	µg/l #	17
16) Acetone	3.22	43	5480	3.042	µg/l #	62
18) Methyl Acetate	3.63	43	1391	Below Cal	#	63
20) Methylene Chloride	3.81	84	12641	1.858	µg/l #	80
29) Tetrahydrofuran	6.45	42	1213	1.556	µg/l #	33
36) 1,1-Dichloropropene	7.03	75	44350	5.035	µg/l #	50
37) Ethyl Acetate	6.16	43	7847	2.082	µg/l #	11
38) Carbon Tetrachloride	7.03	117	60063	4.487	µg/l #	15
39) Methylcyclohexane	8.86	83	10056	1.320	µg/l #	93
81) trans-1,4-Dichloro-2-buten	13.55	75	116082	151.431	µg/l #	1

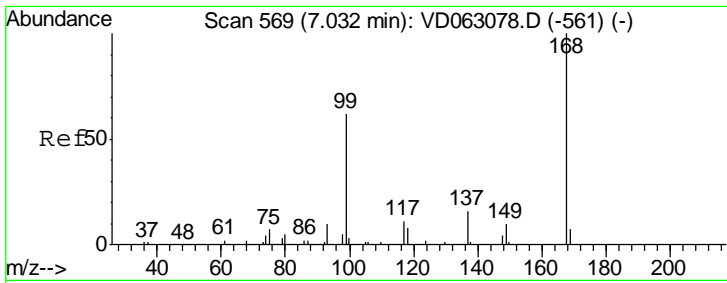
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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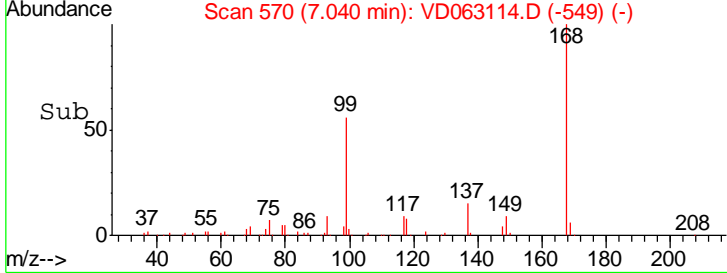
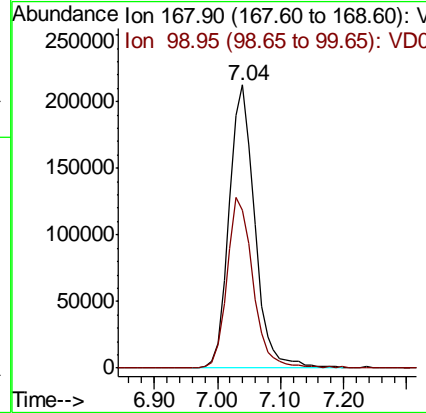
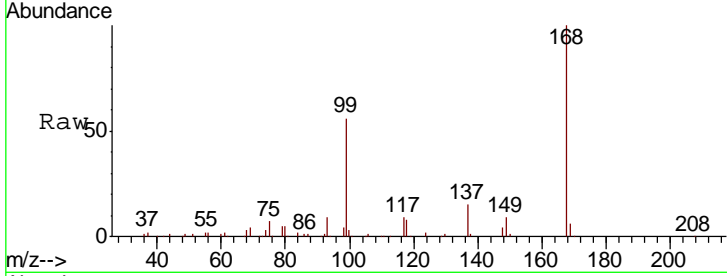




#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.04 min Scan# 570  
 Delta R.T. 0.01 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

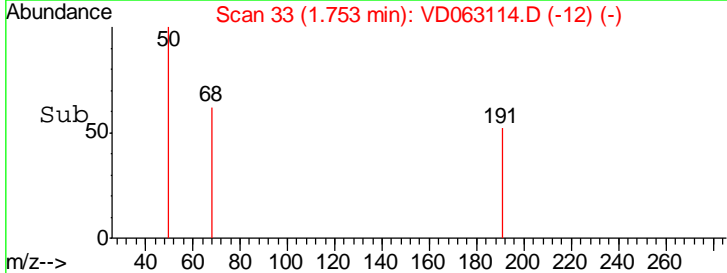
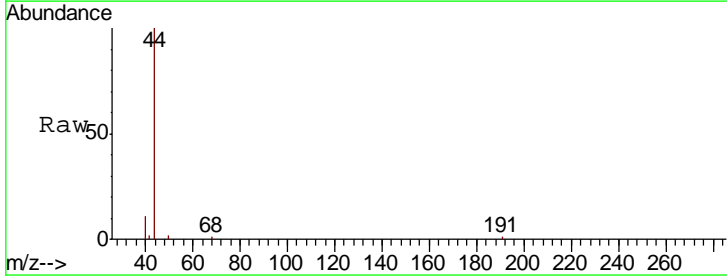
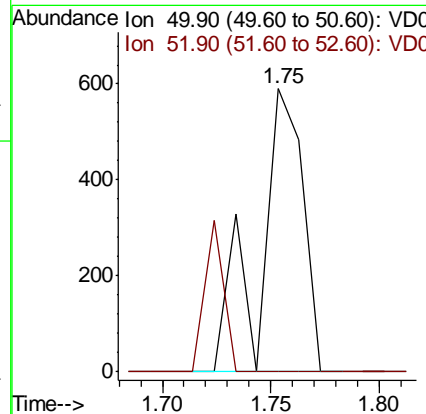
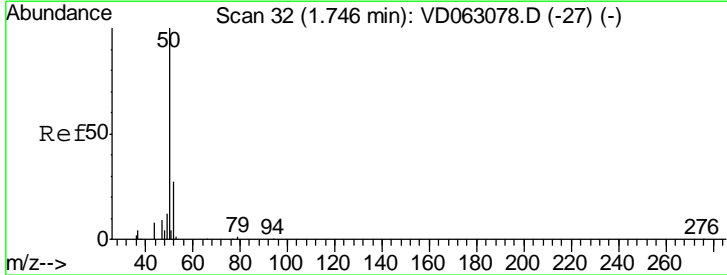
Instrument : MSVOA\_D  
 ClientSampleID : OR-03-071519-B

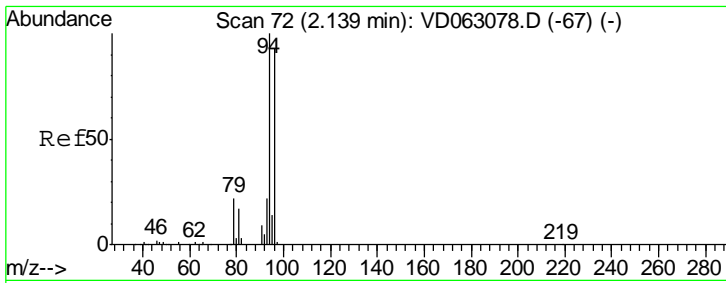
Tgt Ion	Resp	Lower	Upper
168	100		
99	55.6	50.8	76.2



#3  
 Chloromethane  
 Concen: Below Cal  
 RT: 1.75 min Scan# 33  
 Delta R.T. 0.01 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Tgt Ion	Resp	Lower	Upper
50	100		
52	0.0	21.4	32.2#

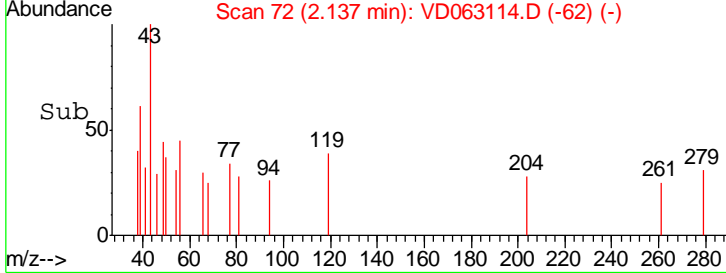
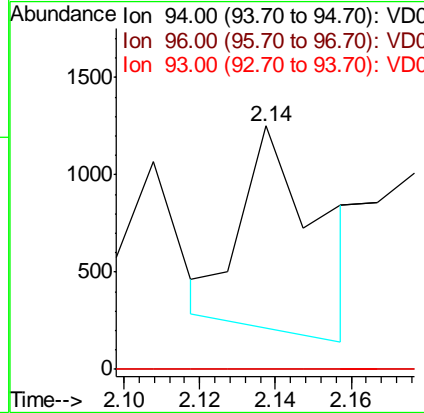
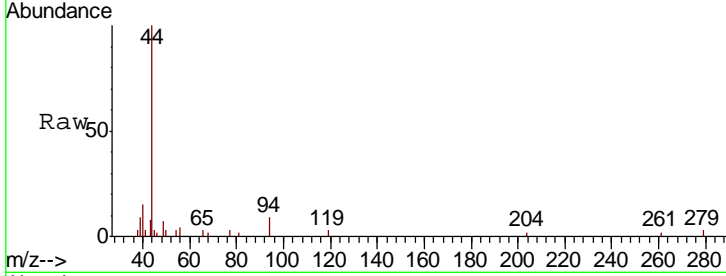




#5  
 Bromomethane  
 Concen: Below Cal  
 RT: 2.14 min Scan# 72  
 Delta R.T. -0.00 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

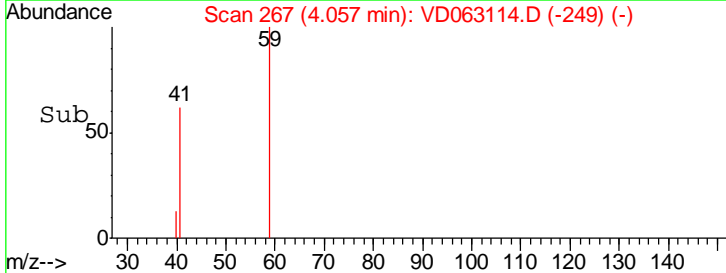
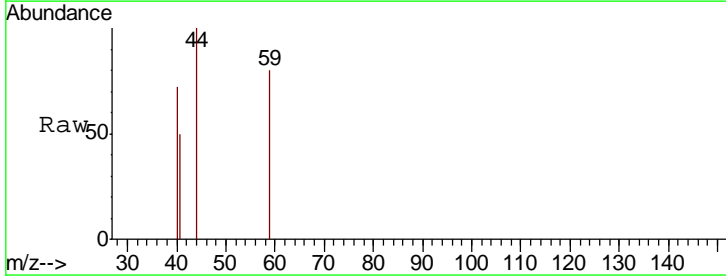
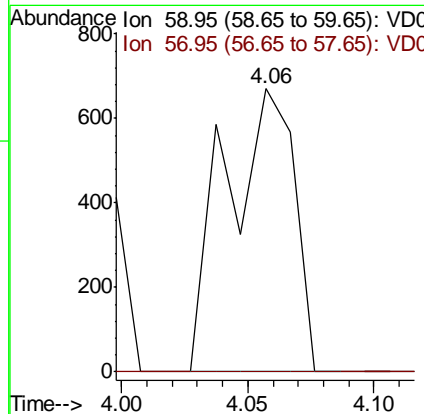
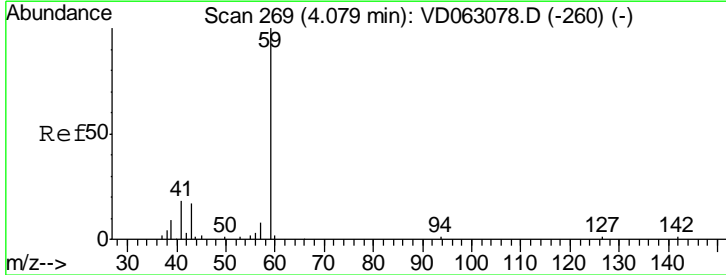
Instrument : MSVOA\_D  
 ClientSampled : OR-03-071519-B

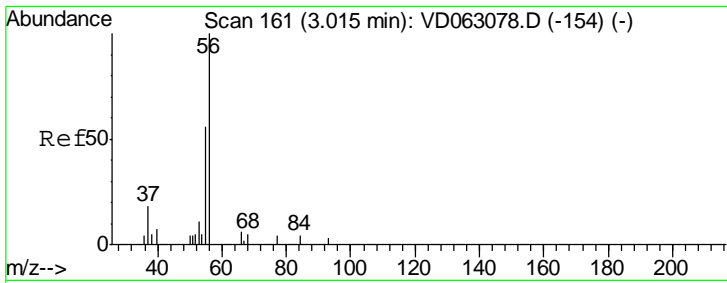
Tgt Ion	Resp	Lower	Upper
94	1460		
96	0.0	74.2	111.2#
93	0.0	17.8	26.6#



#11  
 Tert butyl alcohol  
 Concen: 2.953 ug/l  
 RT: 4.06 min Scan# 267  
 Delta R.T. -0.02 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Tgt Ion	Resp	Lower	Upper
59	1271		
57	0.0	6.4	9.6#

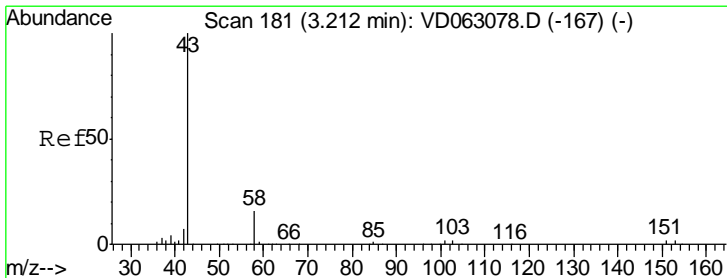
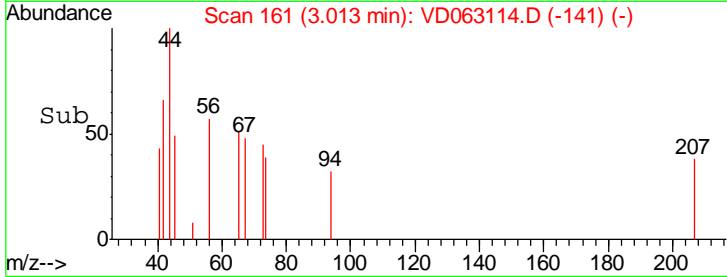
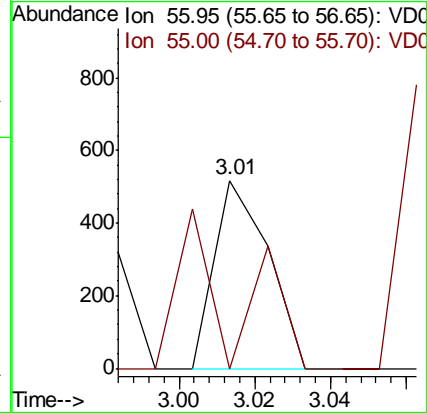
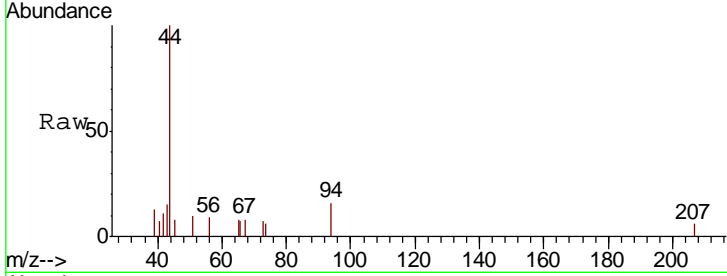




#13  
 Acrolein  
 Concen: 3.888 ug/l  
 RT: 3.01 min Scan# 161  
 Delta R.T. -0.00 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

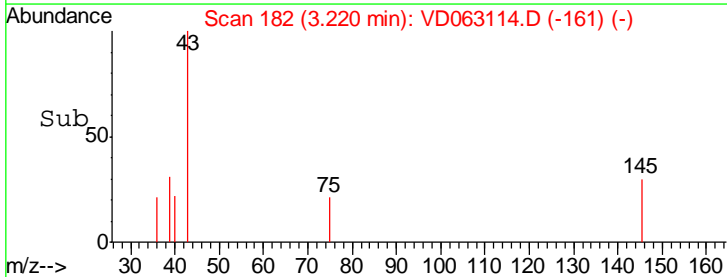
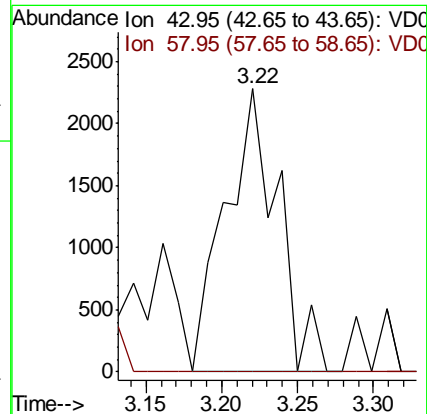
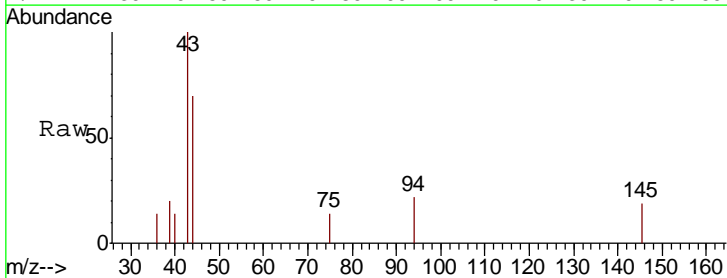
Instrument : MSVOA\_D  
 ClientSampled : OR-03-071519-B

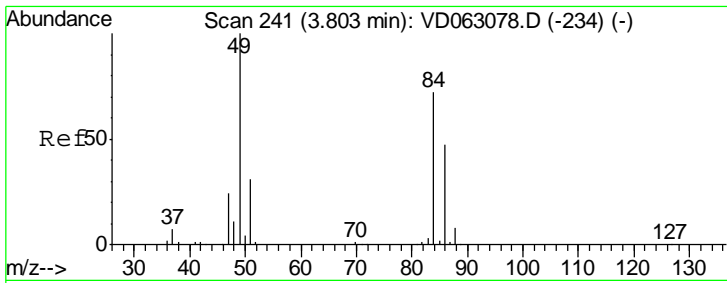
Tgt Ion: 56 Resp: 505  
 Ion Ratio Lower Upper  
 56 100  
 55 0.0 53.0 79.4#



#16  
 Acetone  
 Concen: 3.042 ug/l  
 RT: 3.22 min Scan# 182  
 Delta R.T. 0.01 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Tgt Ion: 43 Resp: 5480  
 Ion Ratio Lower Upper  
 43 100  
 58 0.0 13.0 19.4#

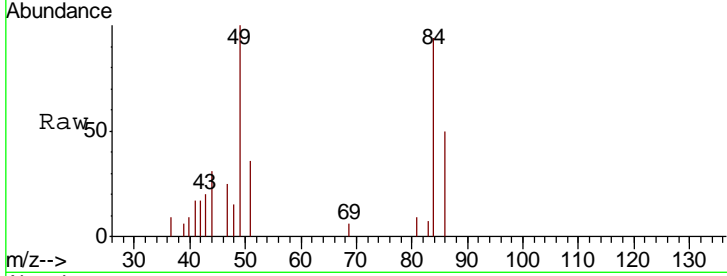




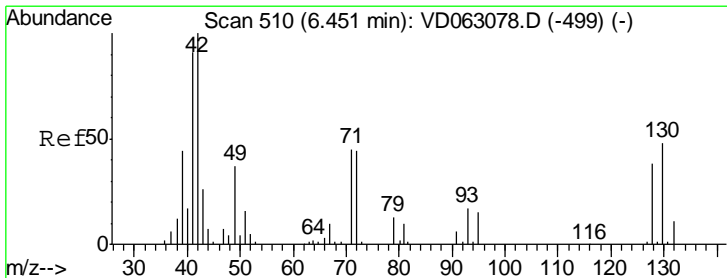
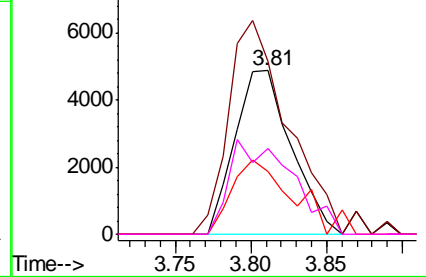
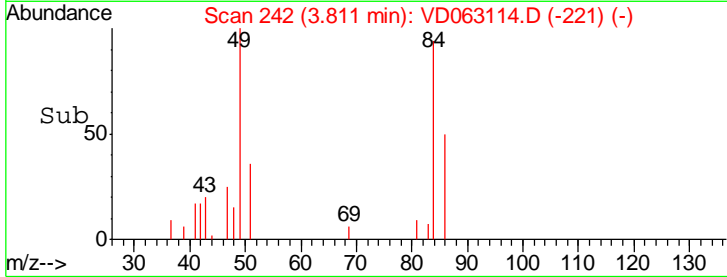
#20  
 Methylene Chloride  
 Concen: 1.858 ug/l  
 RT: 3.81 min Scan# 242  
 Delta R.T. 0.01 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Instrument : MSVOA\_D  
 ClientSampleId : OR-03-071519-B

Tgt Ion	Resp	Lower	Upper
84	12641		
49	105.8	110.5	165.7#
51	38.3	34.6	51.8
86	52.9	51.6	77.4

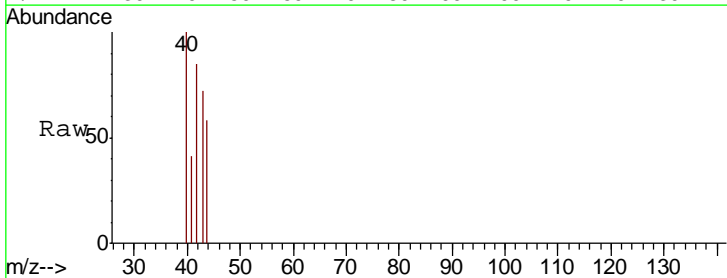


Abundance Ion 83.95 (83.65 to 84.65): VDC  
 Ion 48.90 (48.60 to 49.60): VDC  
 Ion 50.90 (50.60 to 51.60): VDC  
 Ion 85.90 (85.60 to 86.60): VDC

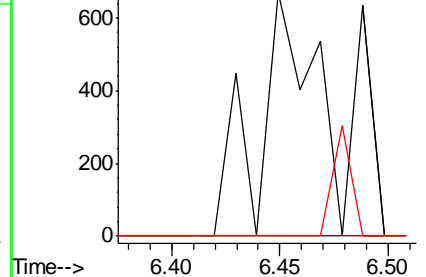
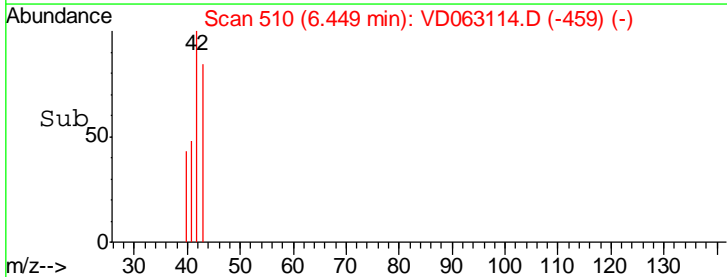


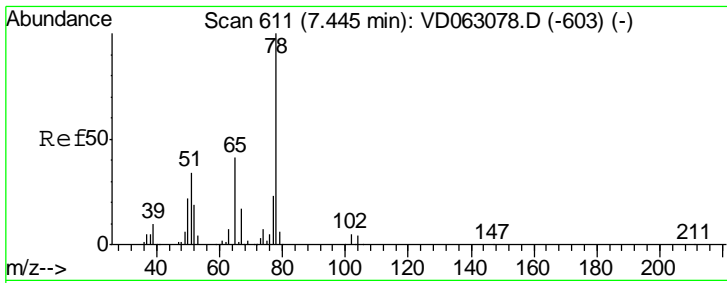
#29  
 Tetrahydrofuran  
 Concen: 1.556 ug/l  
 RT: 6.45 min Scan# 510  
 Delta R.T. -0.00 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Tgt Ion	Resp	Lower	Upper
42	1213		
72	0.0	33.7	50.5#
71	0.0	34.2	51.2#



Abundance Ion 42.00 (41.70 to 42.70): VDC  
 Ion 72.00 (71.70 to 72.70): VDC  
 Ion 71.00 (70.70 to 71.70): VDC

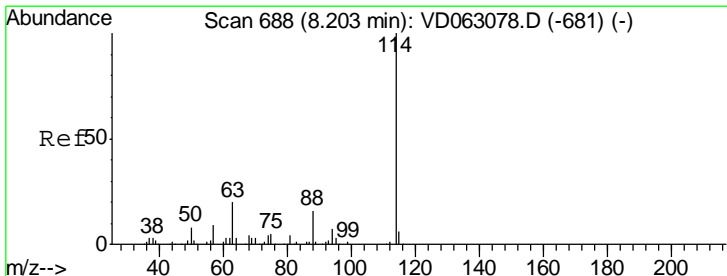
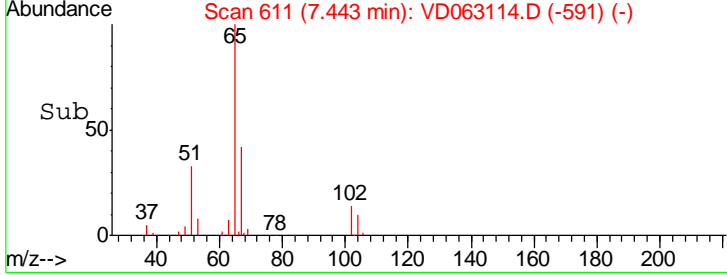
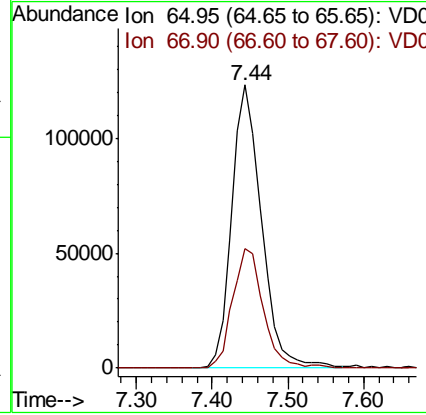
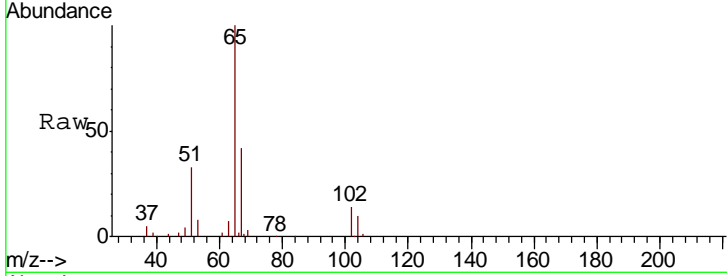




#33  
 1,2-Dichloroethane-d4  
 Concen: 44.776 ug/l  
 RT: 7.44 min Scan# 611  
 Delta R.T. -0.00 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

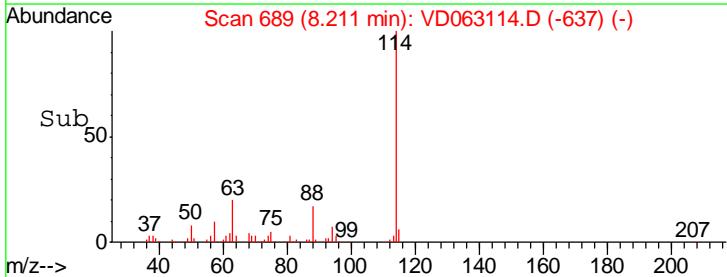
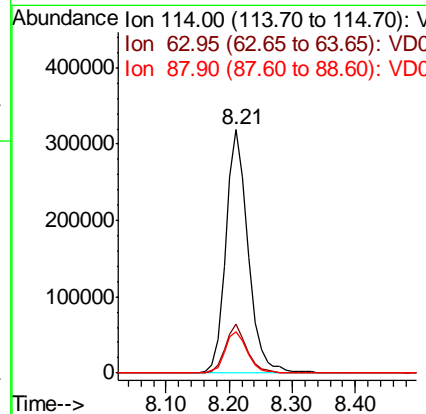
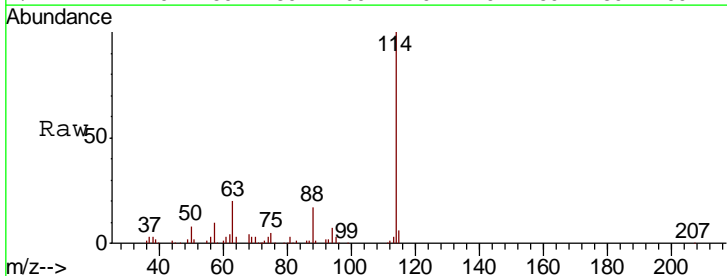
Instrument : MSVOA\_D  
 Client Sampled : OR-03-071519-B

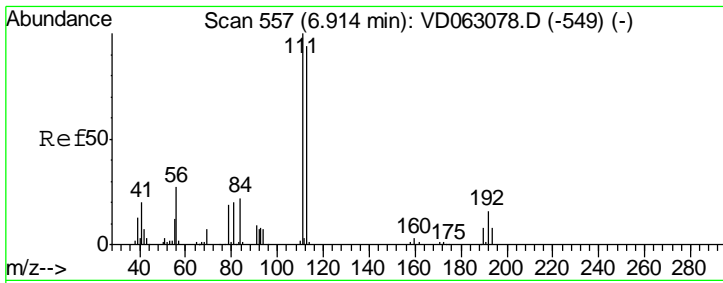
Tgt Ion	Resp	Lower	Upper
65	333913		
67	42.4	0.0	86.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.21 min Scan# 689  
 Delta R.T. 0.01 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Tgt Ion	Resp	Lower	Upper
114	783204		
63	20.3	0.0	40.6
88	17.1	0.0	32.6

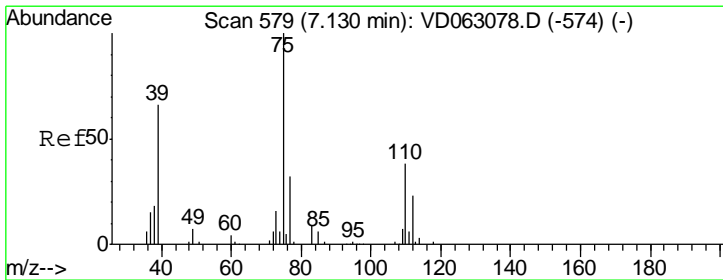
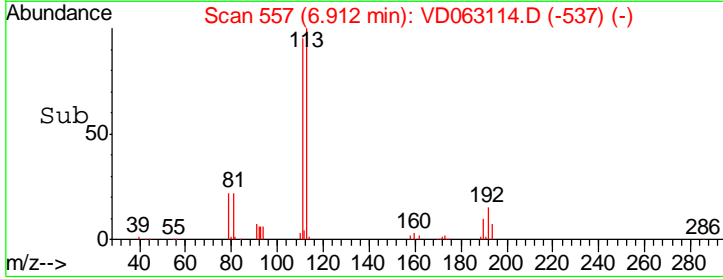
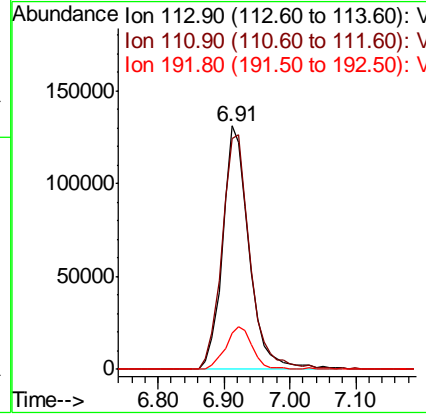
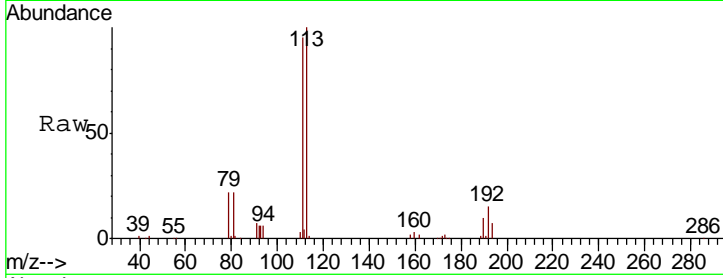




#35  
 Dibromofluoromethane  
 Concen: 46.883 ug/l  
 RT: 6.91 min Scan# 557  
 Delta R.T. -0.00 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

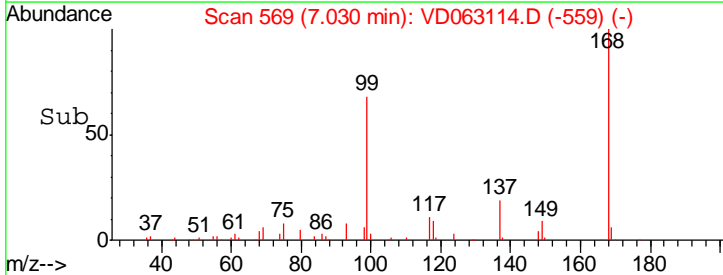
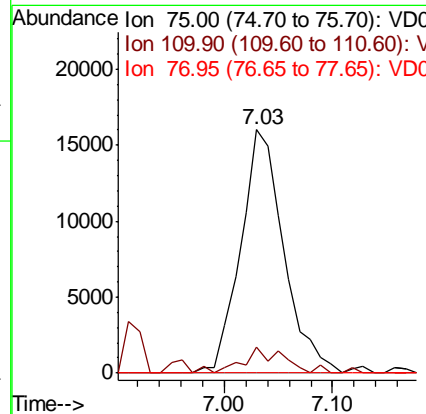
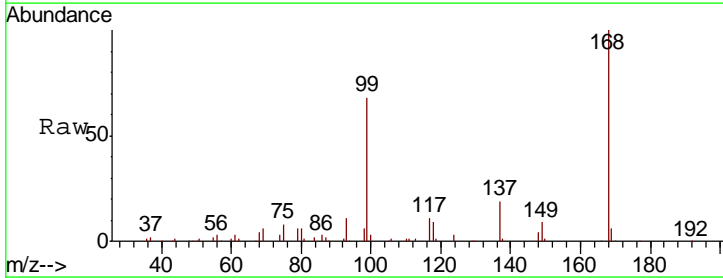
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 OR-03-071519-B

Tgt Ion	Resp	Lower	Upper
113	100		
111	94.8	84.8	127.2
192	14.9	13.4	20.0

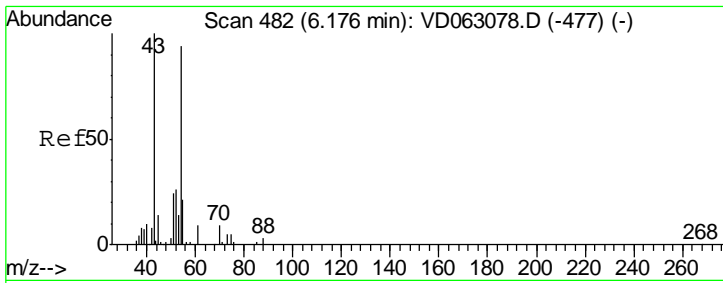


#36  
 1,1-Dichloropropene  
 Concen: 5.035 ug/l  
 RT: 7.03 min Scan# 569  
 Delta R.T. -0.10 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Tgt Ion	Resp	Lower	Upper
75	100		
110	10.8	18.9	56.5#
77	0.0	25.2	37.8#



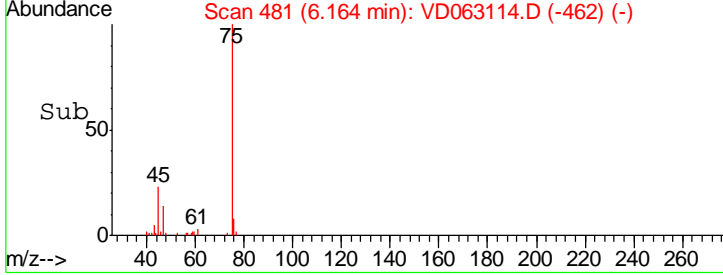
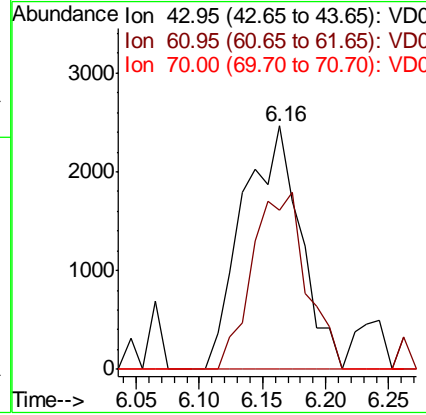
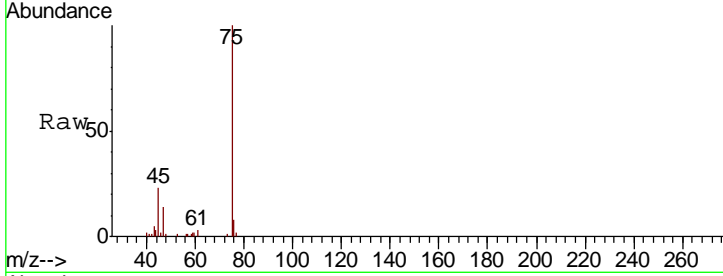




#37  
 Ethyl Acetate  
 Concen: 2.082 ug/l  
 RT: 6.16 min Scan# 481  
 Delta R.T. -0.01 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

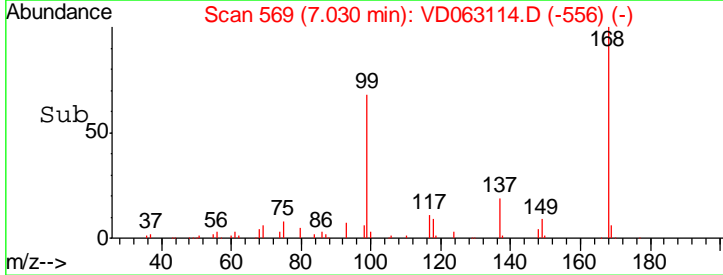
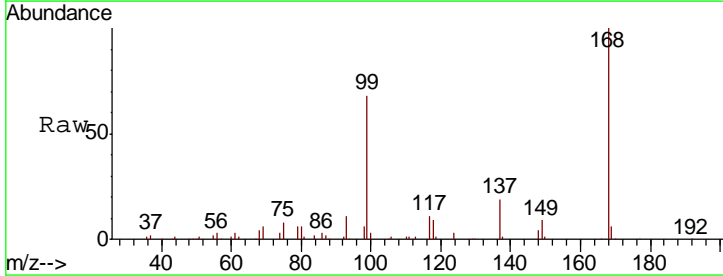
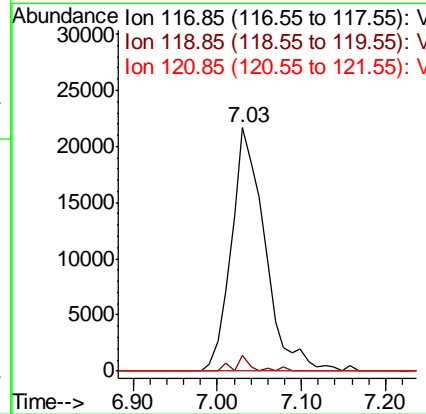
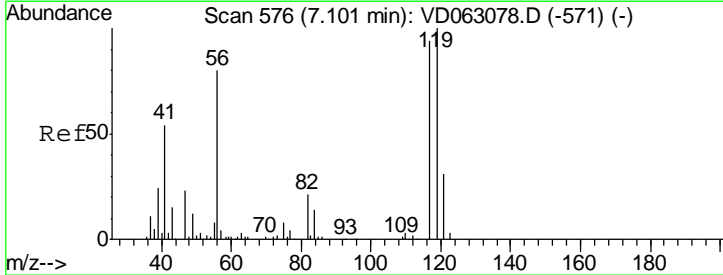
**Instrument :**  
 MSVOA\_D  
**ClientSampled :**  
 OR-03-071519-B

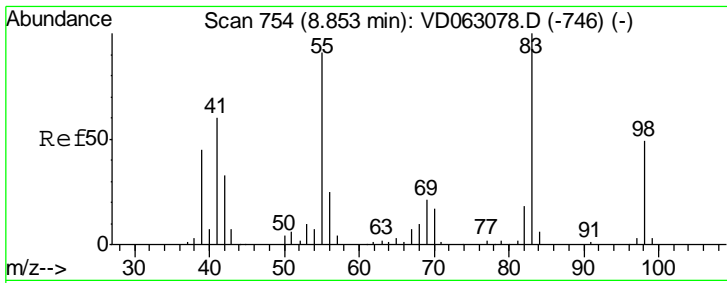
Tgt Ion	Resp	Lower	Upper
43	100		
61	65.2	10.6	16.0#
70	0.0	6.6	9.8#



#38  
 Carbon Tetrachloride  
 Concen: 4.487 ug/l  
 RT: 7.03 min Scan# 569  
 Delta R.T. -0.07 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Tgt Ion	Resp	Lower	Upper
117	100		
119	6.7	80.0	120.0#
121	0.0	25.0	37.4#

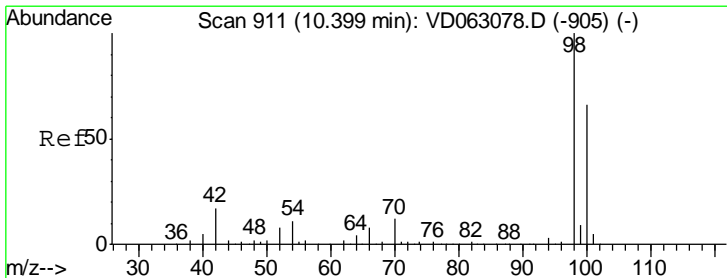
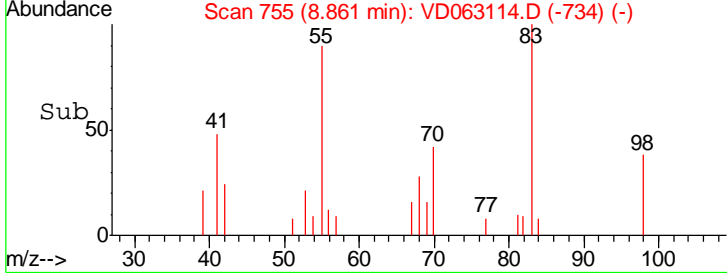
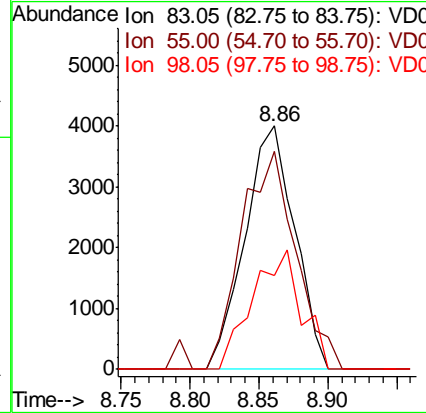
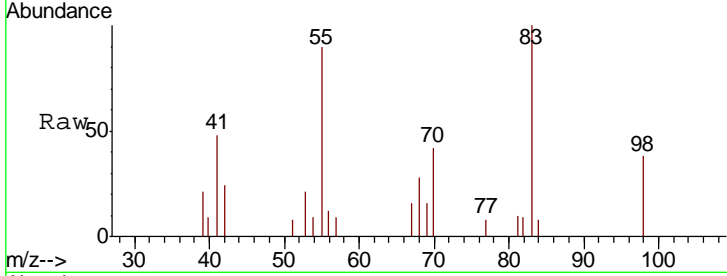




#39  
 Methylcyclohexane  
 Concen: 1.320 ug/l  
 RT: 8.86 min Scan# 755  
 Delta R.T. 0.01 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

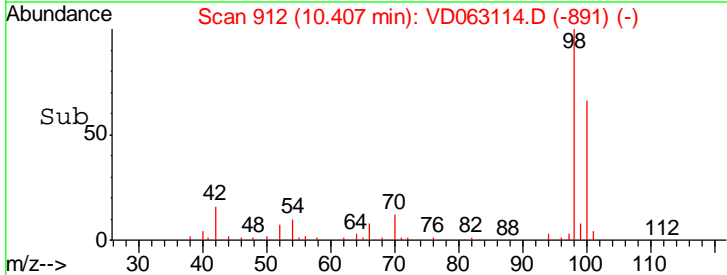
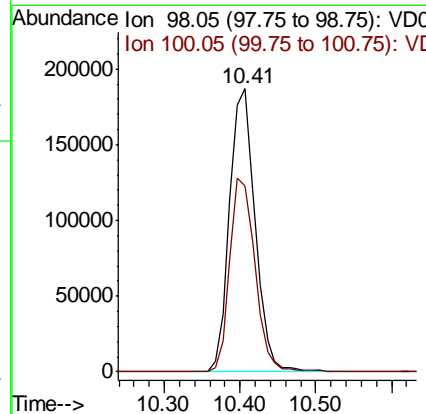
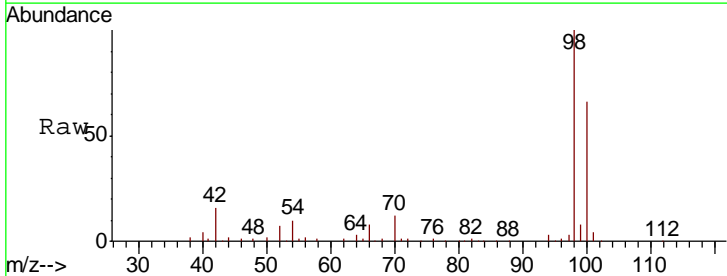
**Instrument :**  
 MSVOA\_D  
**ClientSampled :**  
 OR-03-071519-B

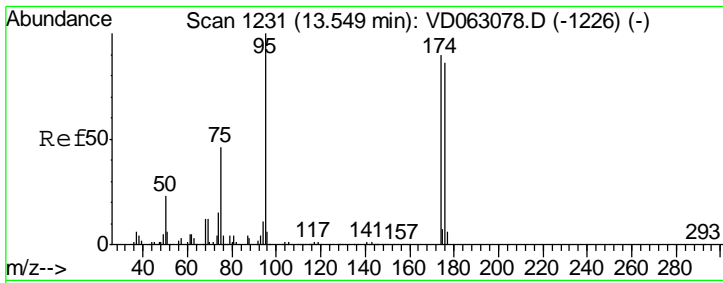
Tgt Ion	Resp	Lower	Upper
83	10056		
83	100		
55	89.8	73.0	109.4
98	38.4	39.4	59.0#



#50  
 Toluene-d8  
 Concen: 26.070 ug/l  
 RT: 10.41 min Scan# 912  
 Delta R.T. 0.01 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Tgt Ion	Resp	Lower	Upper
98	436843		
98	100		
100	65.6	53.5	80.3

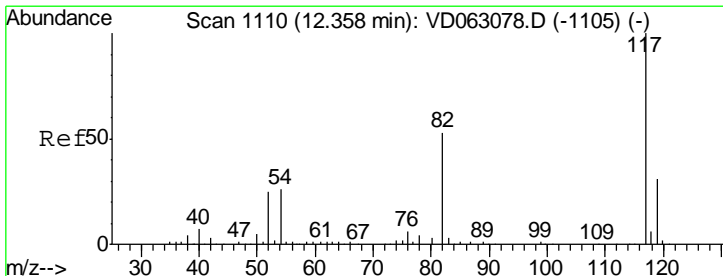
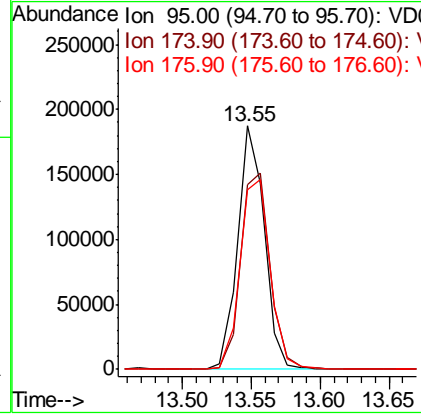
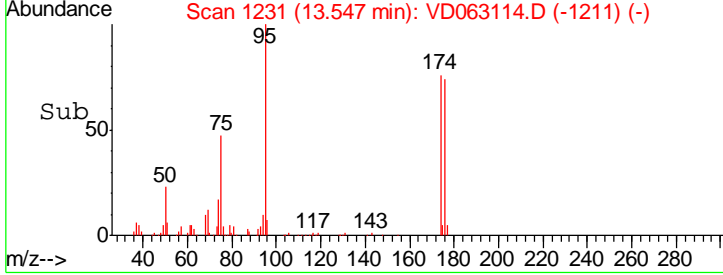
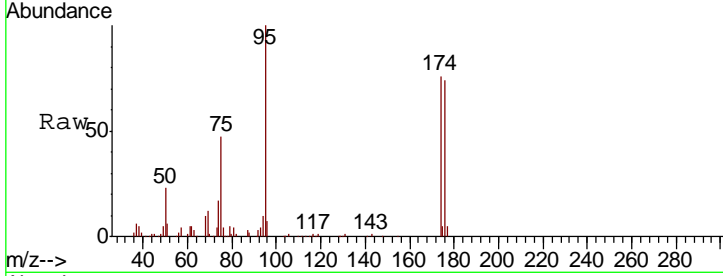




#62  
 4-Bromofluorobenzene  
 Concen: 32.783 ug/l  
 RT: 13.55 min Scan# 1231  
 Delta R.T. -0.00 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

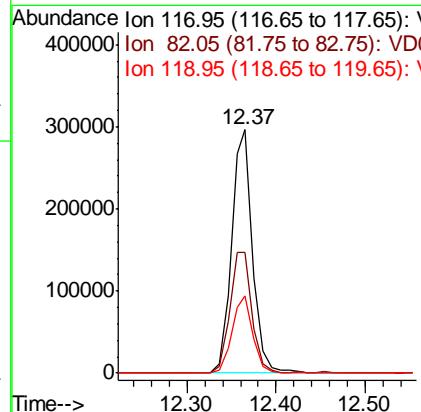
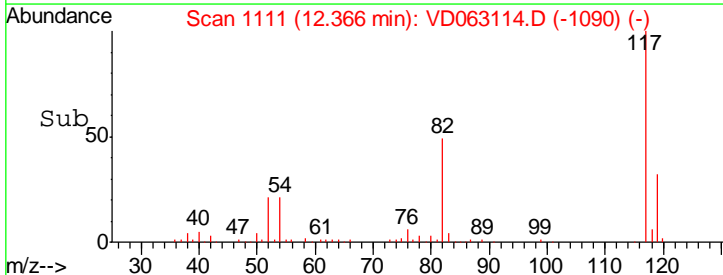
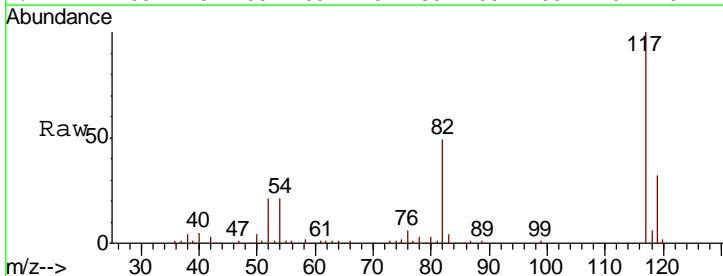
Instrument : MSVOA\_D  
 ClientSampleId : OR-03-071519-B

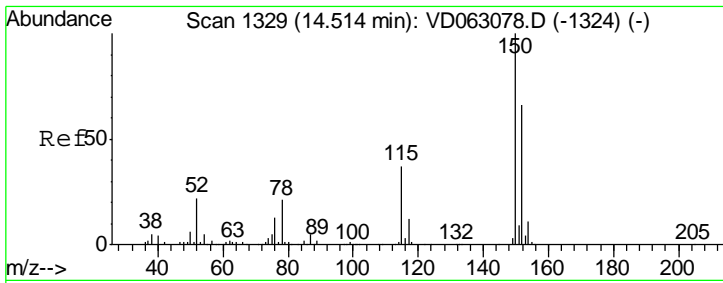
Tgt Ion	Resp	Lower	Upper
95	254139		
174	75.7	0.0	180.6
176	74.0	0.0	172.2



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 12.37 min Scan# 1111  
 Delta R.T. 0.01 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Tgt Ion	Resp	Lower	Upper
117	491220		
82	49.4	42.3	63.5
119	31.6	25.2	37.8

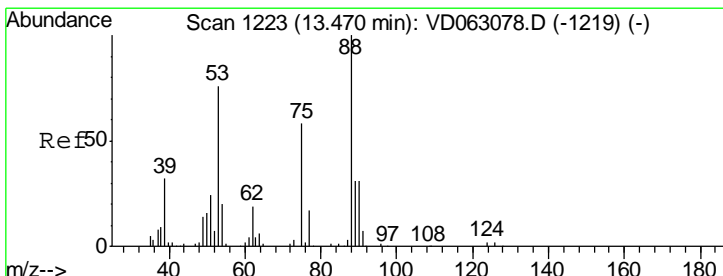
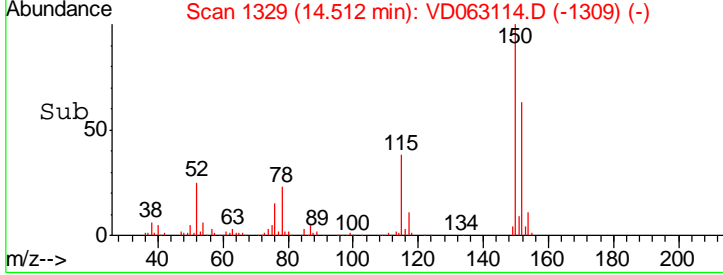
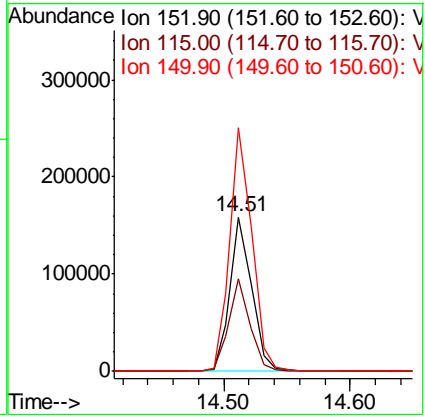
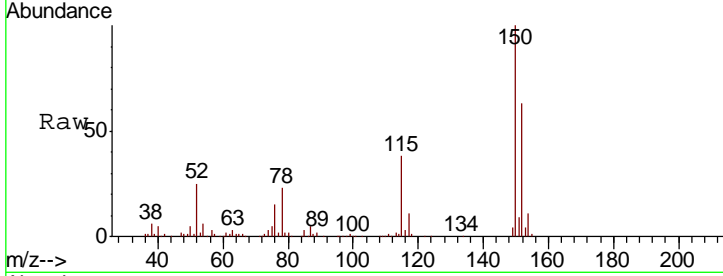




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 14.51 min Scan# 1329  
 Delta R.T. -0.00 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Instrument : MSVOA\_D  
 ClientSampled : OR-03-071519-B

Tgt Ion	Resp	Lower	Upper
152	100		
115	59.9	28.9	86.8
150	158.1	0.0	313.8



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 151.431 ug/l  
 RT: 13.55 min Scan# 1231  
 Delta R.T. 0.08 min  
 Lab File: VD063114.D  
 Acq: 16 Jul 2019 18:45

Tgt Ion	Resp	Lower	Upper
75	100		
53	0.0	104.4	156.6#
89	0.0	43.1	64.7#

