

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063158.D
 Acq On : 19 Jul 2019 17:15
 Operator : VA/AP
 Sample : K3903-02RE
 Misc : 5.66g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

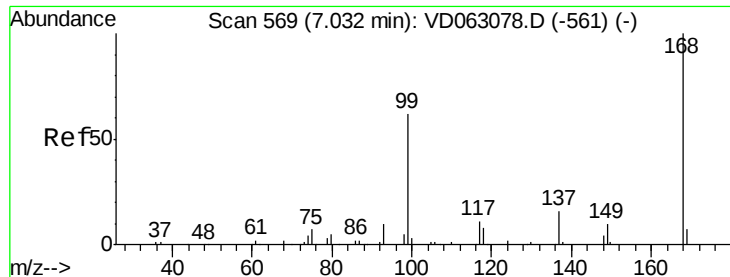
Quant Time: Jul 20 05:01:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	775946	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	989503	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	812031	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	393431	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	362855	37.54	ug/l	0.00
Spiked Amount			Recovery	=	75.08%	
35) Dibromofluoromethane	6.93	113	371476	37.69	ug/l	0.01
Spiked Amount			Recovery	=	75.38%	
50) Toluene-d8	10.41	98	694752	32.82	ug/l	0.01
Spiked Amount			Recovery	=	65.64%	
62) 4-Bromofluorobenzene	13.55	95	289887	29.60	ug/l	0.00
Spiked Amount			Recovery	=	59.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	391	Below Cal	#	43
3) Chloromethane	1.78	50	238	Below Cal	#	48
5) Bromomethane	2.13	94	1117	Below Cal	#	13
11) Tert butyl alcohol	4.06	59	1331	2.386	ug/l #	77
13) Acrolein	3.01	56	664	3.944	ug/l #	80
16) Acetone	3.22	43	50003	21.418	ug/l #	92
18) Methyl Acetate	3.65	43	1742	Below Cal	#	63
20) Methylene Chloride	3.81	84	12830	1.455	ug/l #	85
25) 2-Butanone	6.08	43	9466	4.246	ug/l #	76
31) Cyclohexane	7.05	56	15508	1.685	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	60103	5.401	ug/l #	46
37) Ethyl Acetate	6.16	43	5051	1.061	ug/l #	28
38) Carbon Tetrachloride	7.05	117	78488	4.641	ug/l #	12
76) 1,2,3-Trichloropropane	13.55	75	111224	18.378	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.55	75	131372	82.430	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063158.D

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Instrument :

MSVOA_D

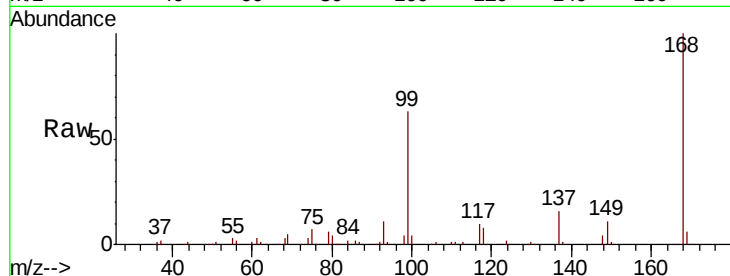
ClientSampleId :

Tot Ion:168 Resp: 775946

Ion Ratio Lower Upper

168 100

99 62.7 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

300000

250000

200000

150000

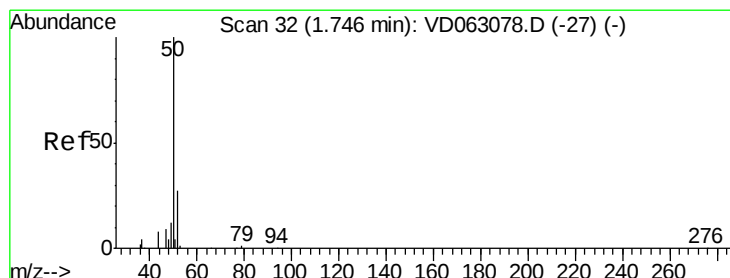
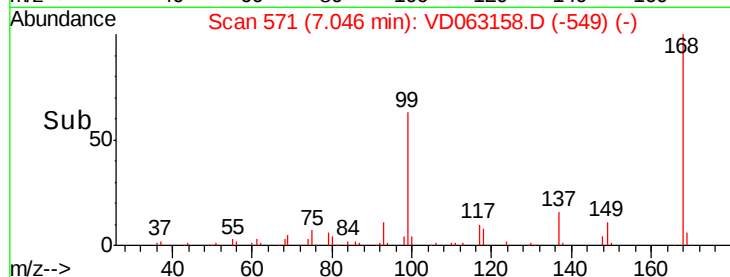
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.78 min Scan# 36

Delta R.T. 0.03 min

Lab File: VD063158.D

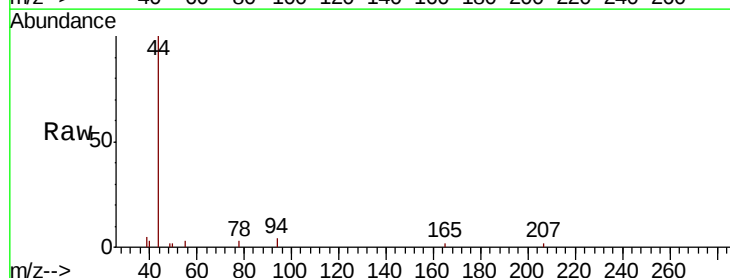
Acq: 19 Jul 2019 17:15

Tgt Ion: 50 Resp: 238

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.78

400

300

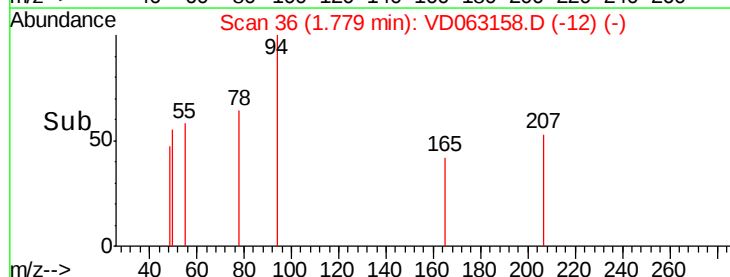
200

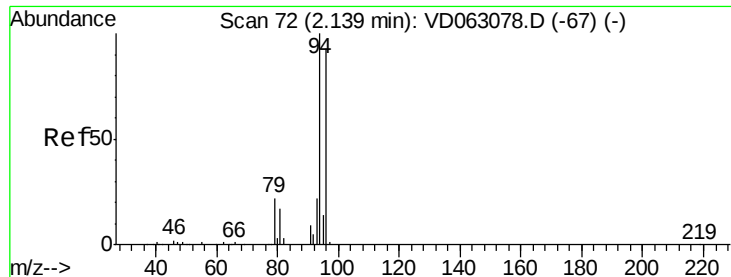
100

0

1.74 1.76 1.78 1.80

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063158.D

Acq: 19 Jul 2019 17:15

Instrument :

MSVOA_D

ClientSampleId :

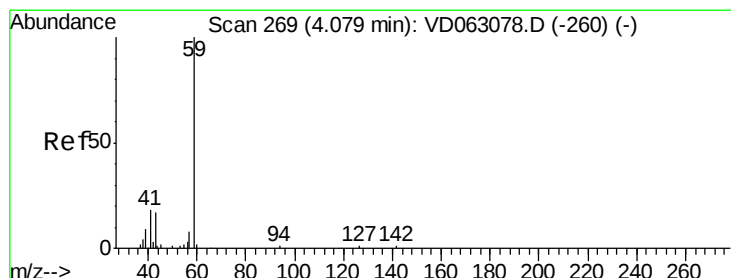
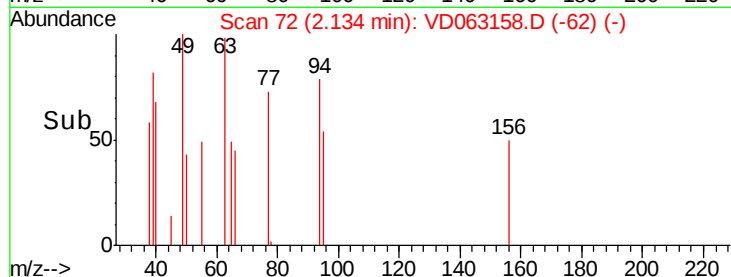
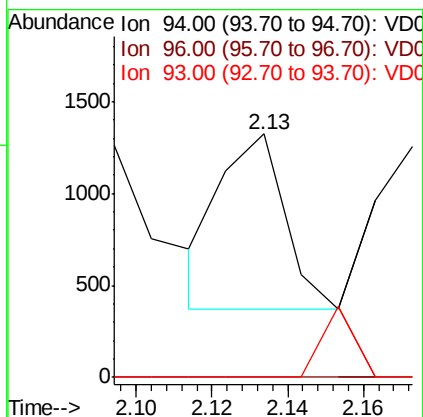
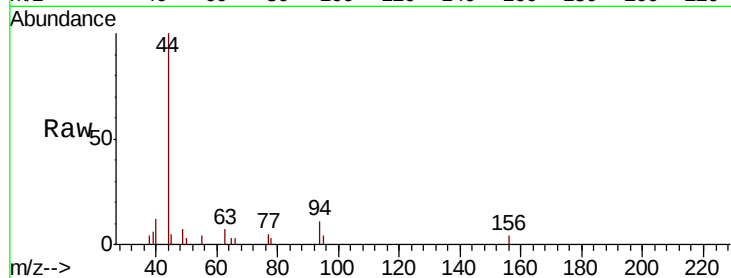
Tot Ion: 94 Resp: 1117

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



#11

Tert butyl alcohol

Concen: 2.386 ug/l

RT: 4.06 min Scan# 268

Delta R.T. -0.02 min

Lab File: VD063158.D

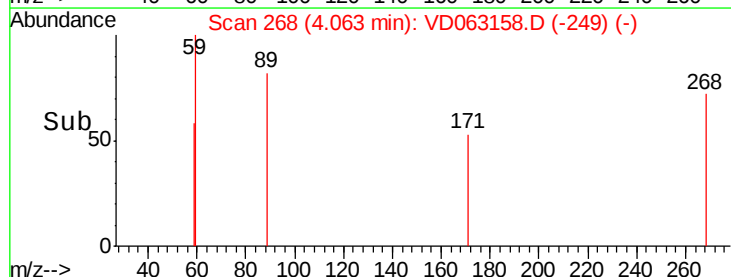
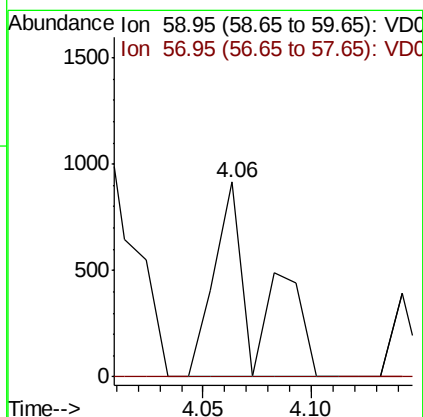
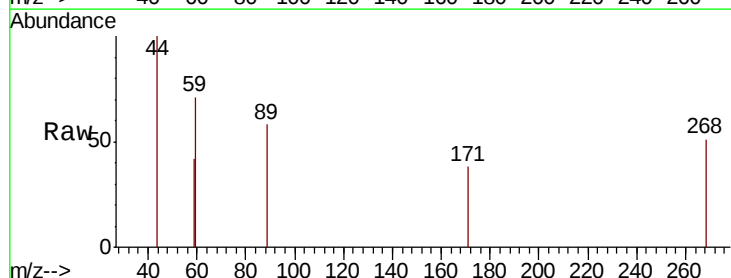
Acq: 19 Jul 2019 17:15

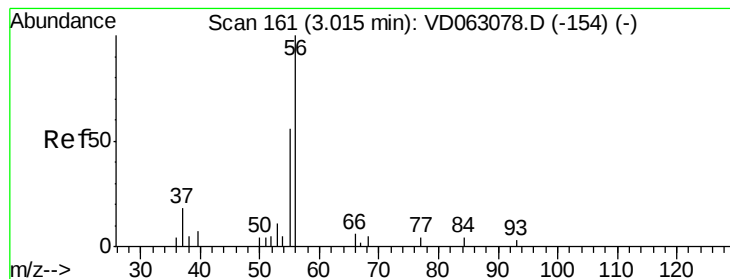
Tgt Ion: 59 Resp: 1331

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#





#13

Acrolein

Concen: 3.944 ug/l

RT: 3.01 min Scan# 161

Delta R.T. -0.01 min

Lab File: VD063158.D

Acq: 19 Jul 2019 17:15

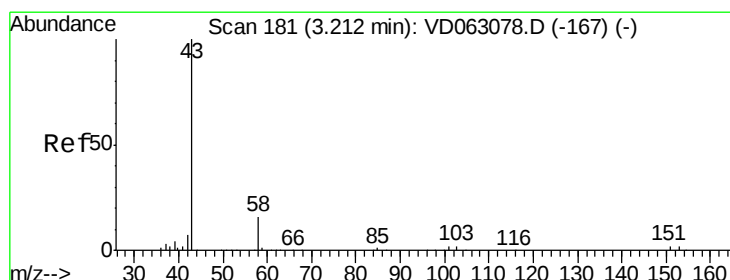
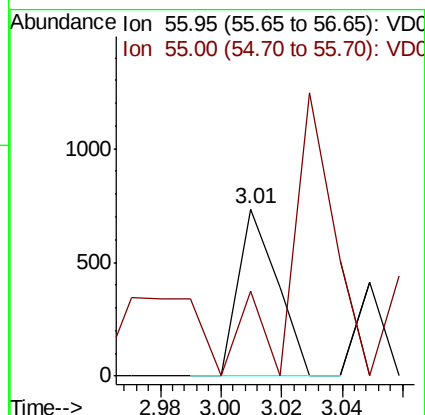
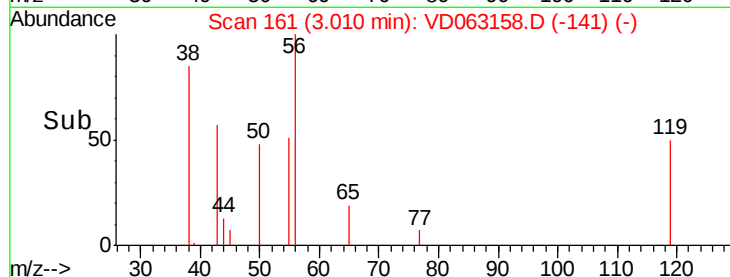
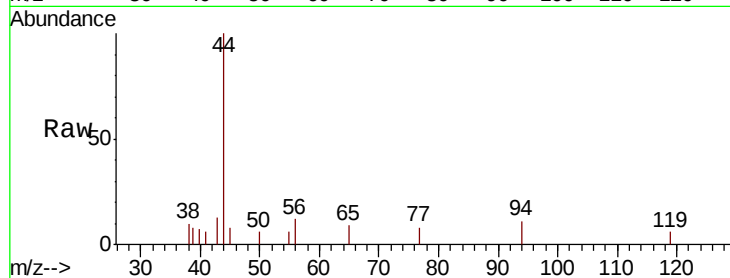
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 664

Ion Ratio Lower Upper

56 100

55 50.6 53.0 79.4#



#16

Acetone

Concen: 21.418 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063158.D

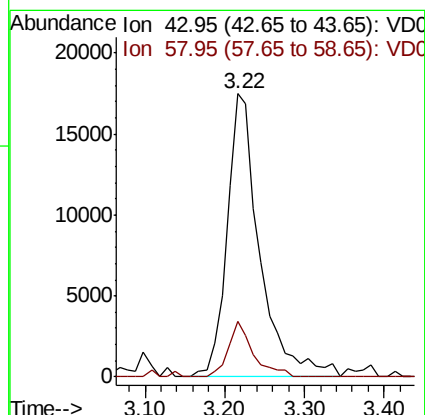
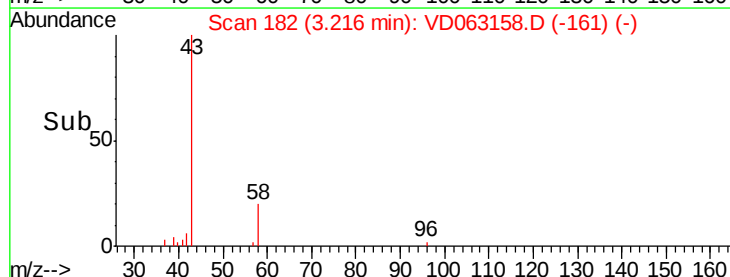
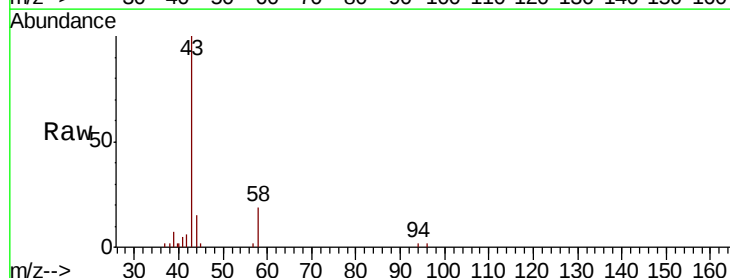
Acq: 19 Jul 2019 17:15

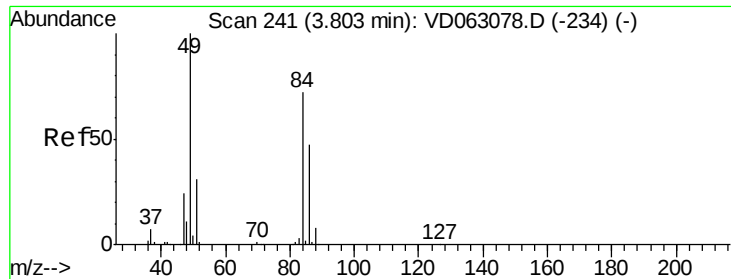
Tgt Ion: 43 Resp: 50003

Ion Ratio Lower Upper

43 100

58 19.5 13.0 19.4#

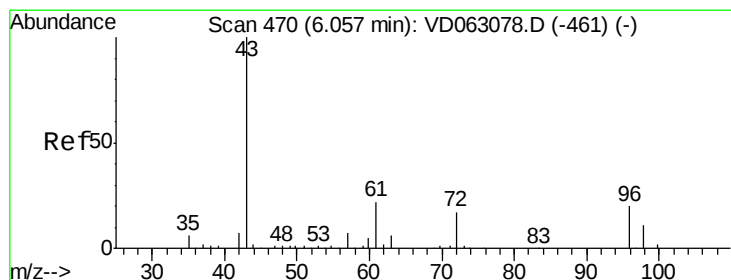
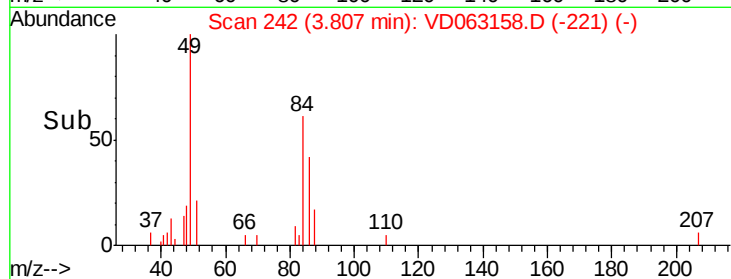
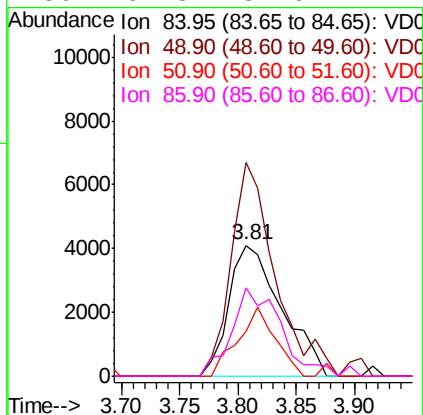
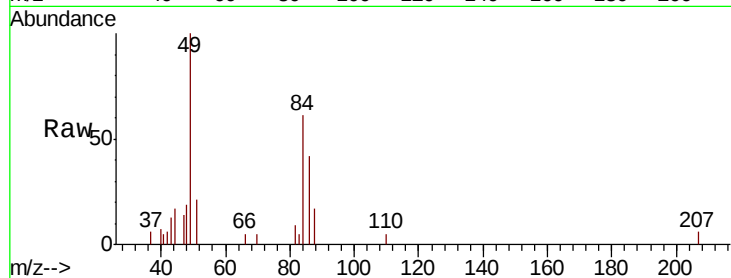




#20
Methvlene Chloride
Concen: 1.455 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD063158.D
Acq: 19 Jul 2019 17:15

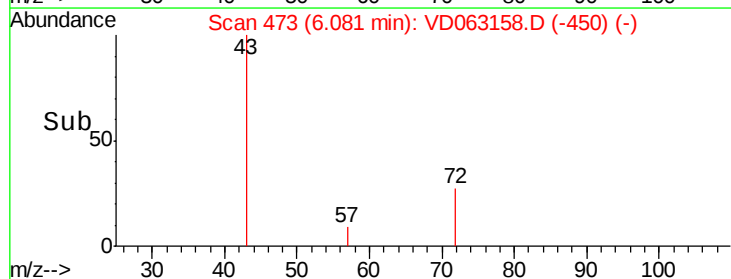
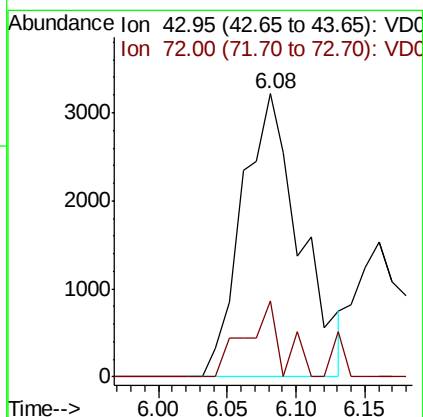
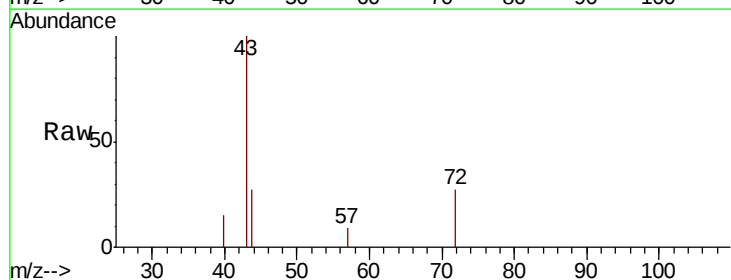
Instrument :
MSVOA_D
ClientSampleId :

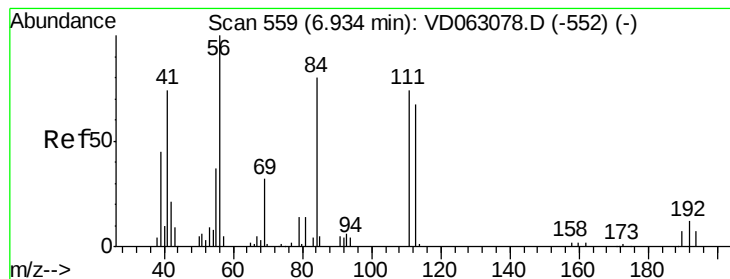
Tot Ion: 84 Resp: 12830
Ion Ratio Lower Upper
84 100
49 163.0 110.5 165.7
51 34.0 34.6 51.8#
86 67.8 51.6 77.4



#25
2-Butanone
Concen: 4.246 ug/l
RT: 6.08 min Scan# 473
Delta R.T. 0.02 min
Lab File: VD063158.D
Acq: 19 Jul 2019 17:15

Tgt Ion: 43 Resp: 9466
Ion Ratio Lower Upper
43 100
72 27.1 13.4 20.0#





#31

Cyclohexane

Concen: 1.685 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.11 min

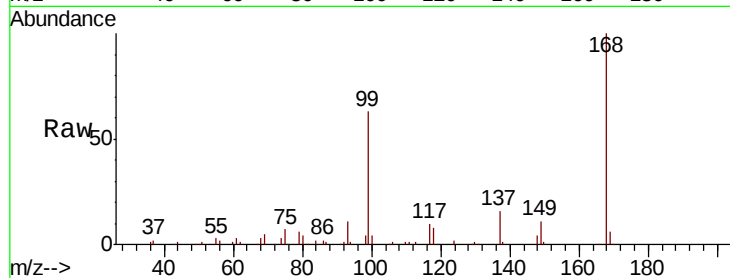
Lab File: VD063158.D

Acq: 19 Jul 2019 17:15

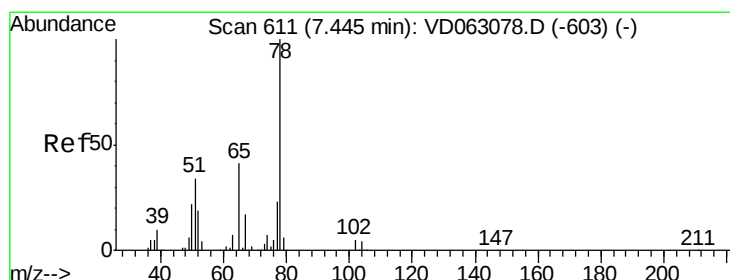
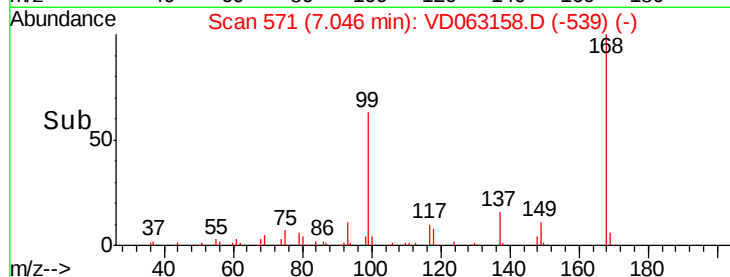
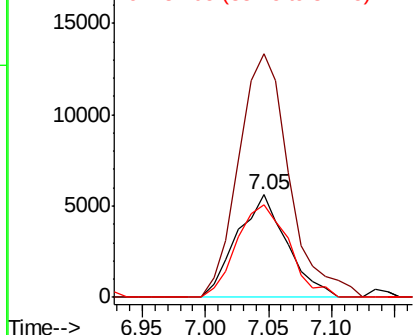
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 15508

Ion	Ratio	Lower	Upper
56	100		
69	237.4	25.3	37.9#
84	89.9	64.2	96.4



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: 37.540 ug/l

RT: 7.45 min Scan# 612

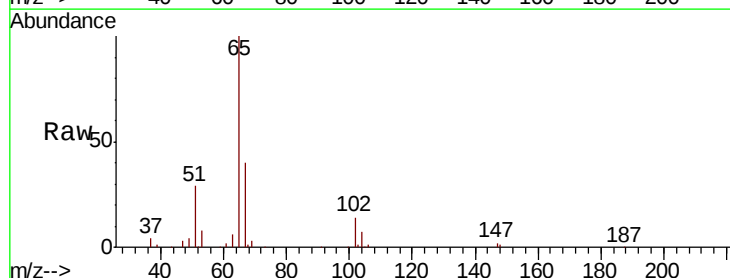
Delta R.T. 0.00 min

Lab File: VD063158.D

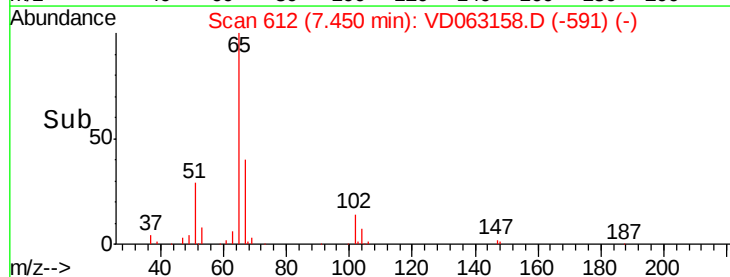
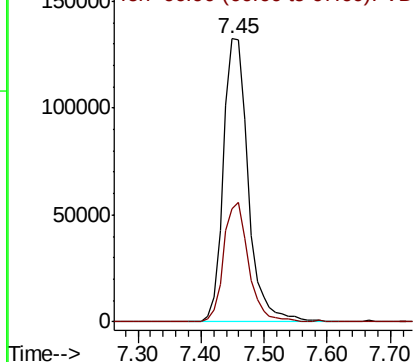
Acq: 19 Jul 2019 17:15

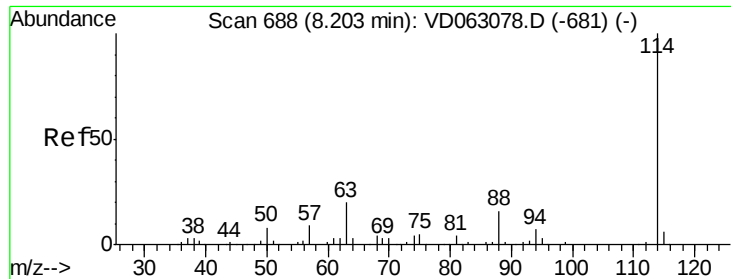
Tgt Ion: 65 Resp: 362855

Ion	Ratio	Lower	Upper
65	100		
67	40.1	0.0	86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

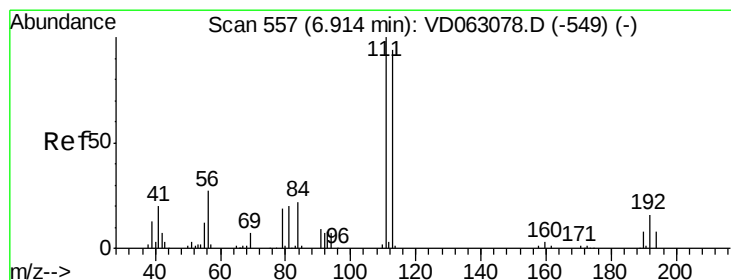
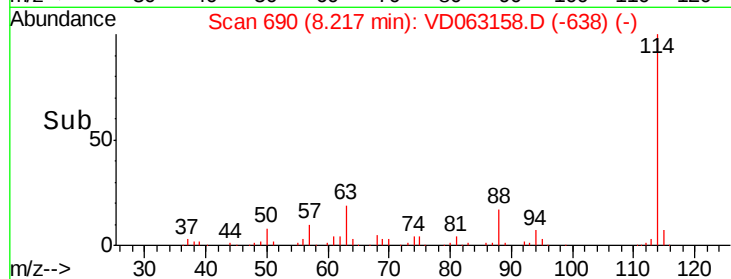
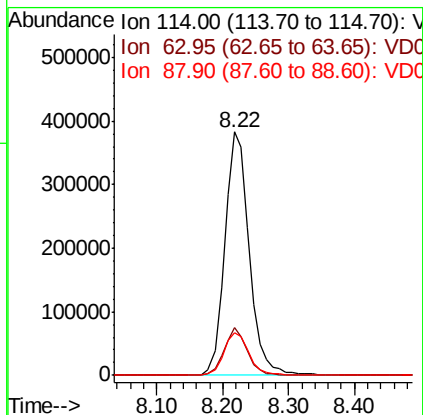
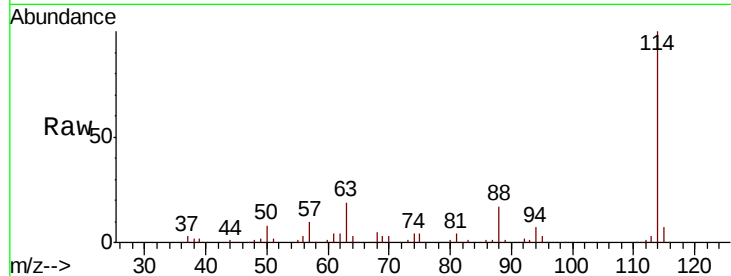




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063158.D
 Acq: 19 Jul 2019 17:15

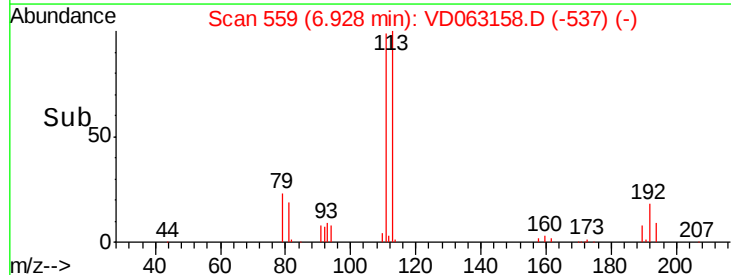
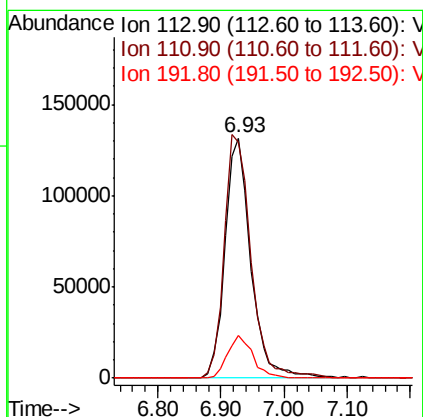
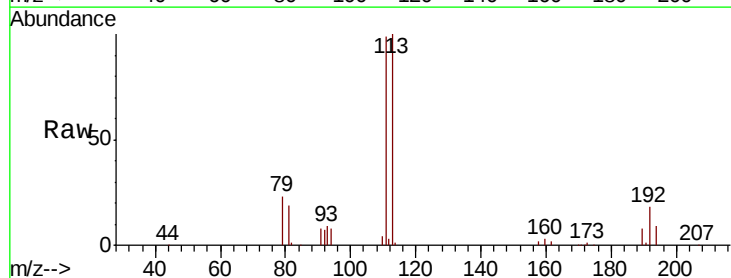
Instrument :
 MSVOA_D
 ClientSampled :

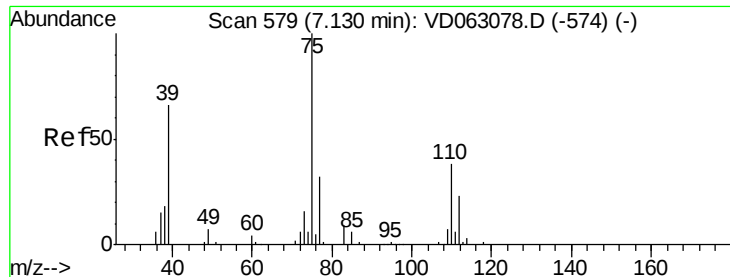
Tot Ion:114 Resp: 989503
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.6
 88 17.5 0.0 32.6



#35
 Dibromofluoromethane
 Concen: 37.692 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD063158.D
 Acq: 19 Jul 2019 17:15

Tgt Ion:113 Resp: 371476
 Ion Ratio Lower Upper
 113 100
 111 98.6 84.8 127.2
 192 17.8 13.4 20.0





#36

1,1-Dichloropropene

Concen: 5.401 ug/l

RT: 7.05 min Scan# 571

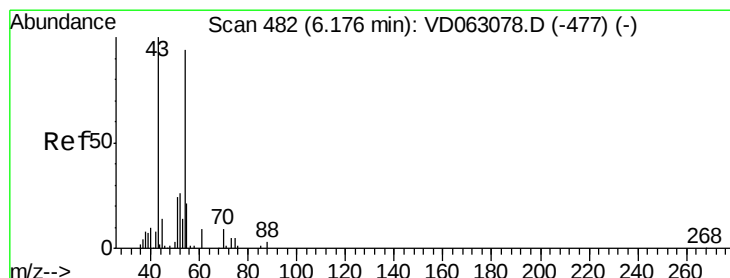
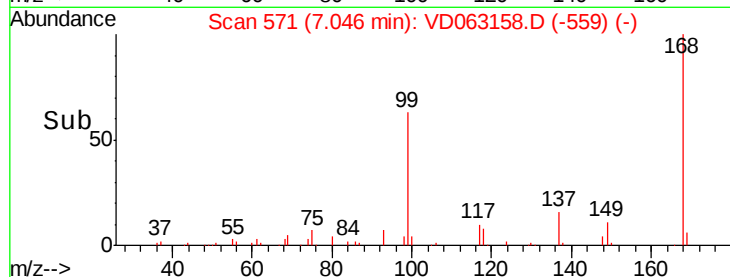
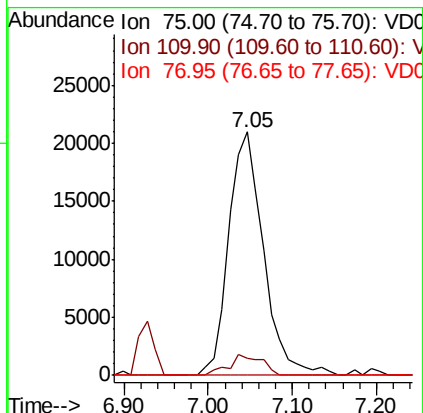
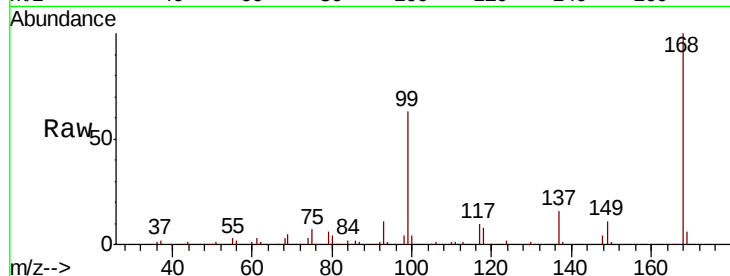
Delta R.T. -0.08 min

Lab File: VD063158.D

Acq: 19 Jul 2019 17:15

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:	75	Resp:	60103
Ion	Ratio	Lower	Upper
75	100		
110	7.1	18.9	56.5#
77	0.0	25.2	37.8#



#37

Ethyl Acetate

Concen: 1.061 ug/l

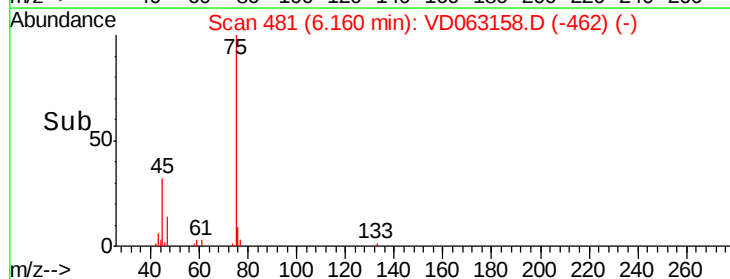
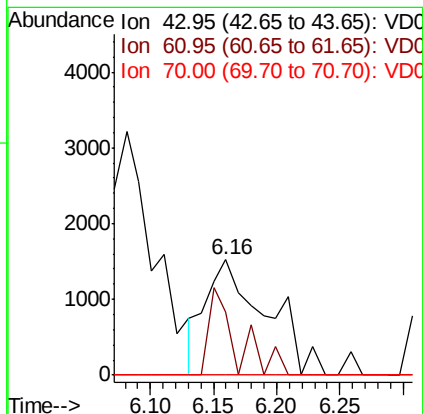
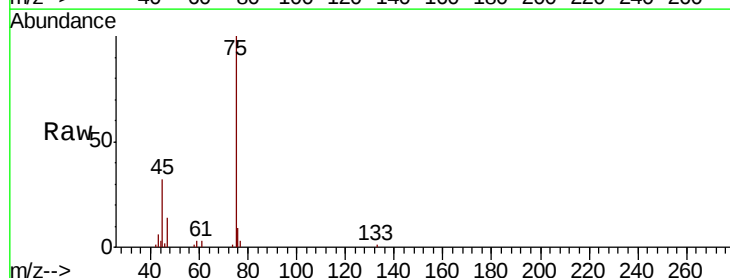
RT: 6.16 min Scan# 481

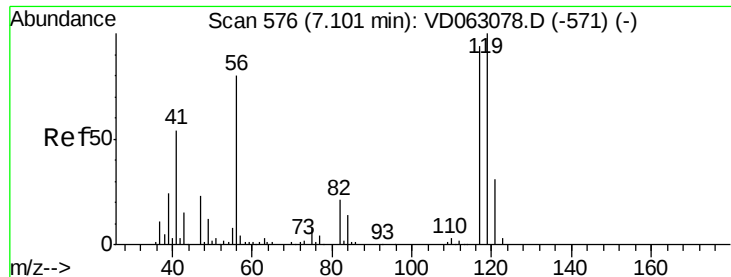
Delta R.T. -0.02 min

Lab File: VD063158.D

Acq: 19 Jul 2019 17:15

Tgt Ion:	43	Resp:	5051
Ion	Ratio	Lower	Upper
43	100		
61	54.5	10.6	16.0#
70	0.0	6.6	9.8#

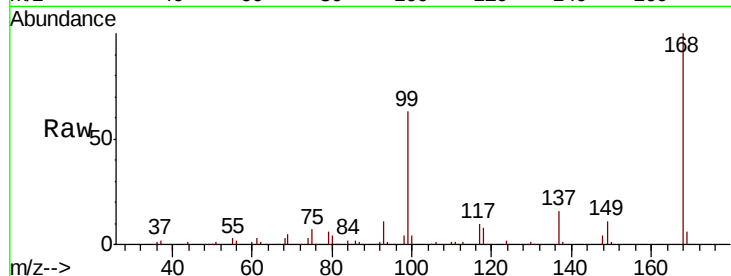




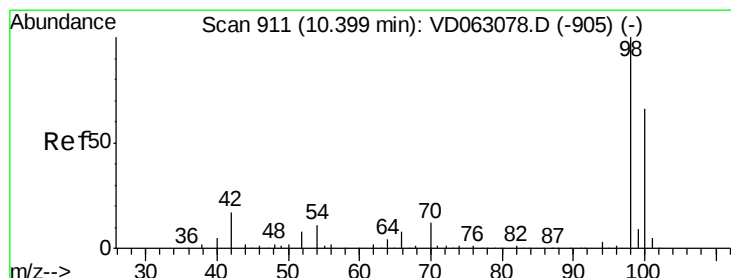
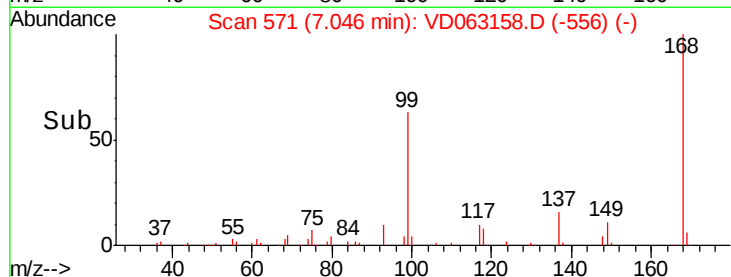
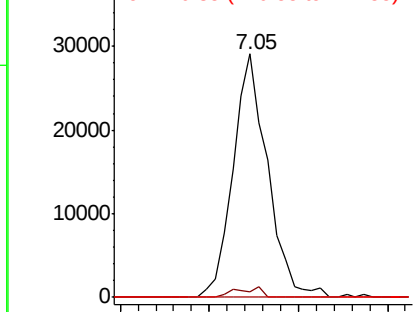
#38
Carbon Tetrachloride
Concen: 4.641 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.05 min
Lab File: VD063158.D
Acq: 19 Jul 2019 17:15

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 78488
Ion Ratio Lower Upper
117 100
119 2.2 80.0 120.0#
121 0.0 25.0 37.4#

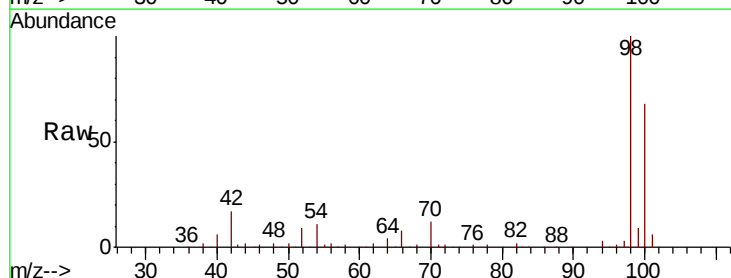


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

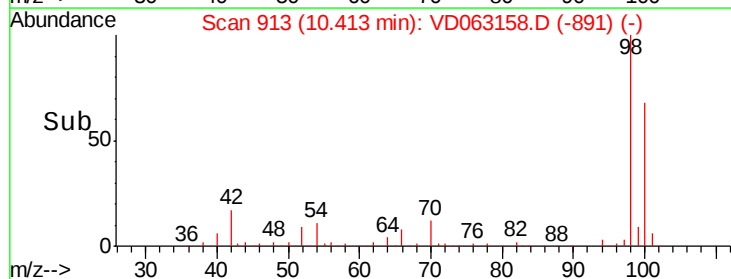
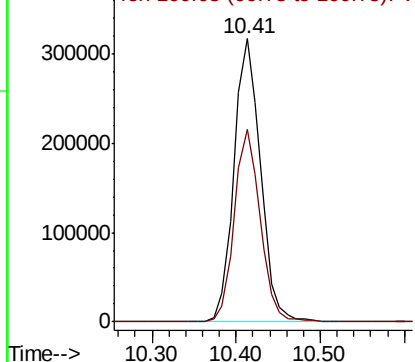


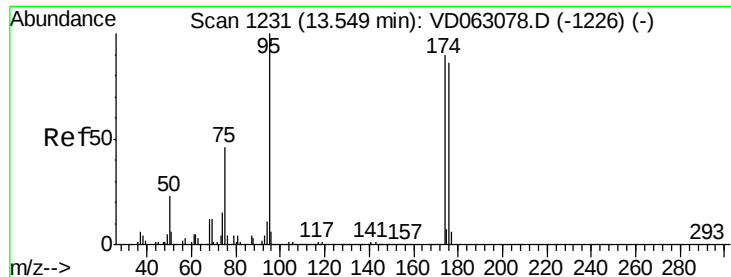
#50
Toluene-d8
Concen: 32.818 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063158.D
Acq: 19 Jul 2019 17:15

Tgt Ion: 98 Resp: 694752
Ion Ratio Lower Upper
98 100
100 68.1 53.5 80.3



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V

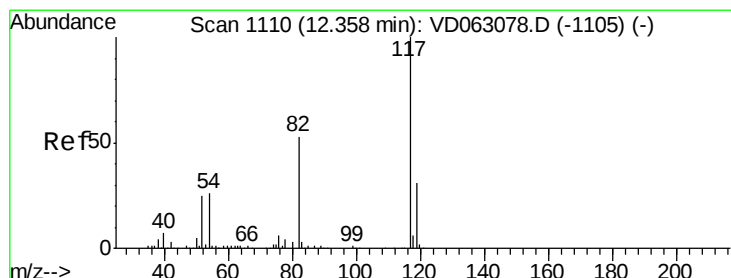
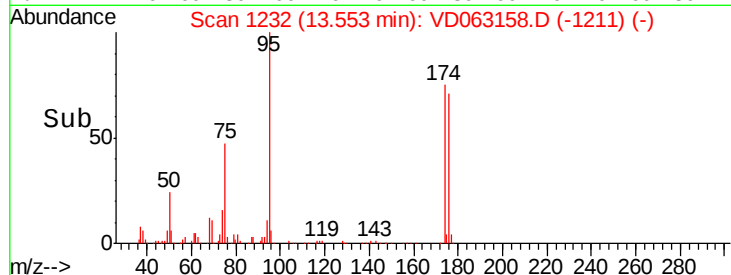
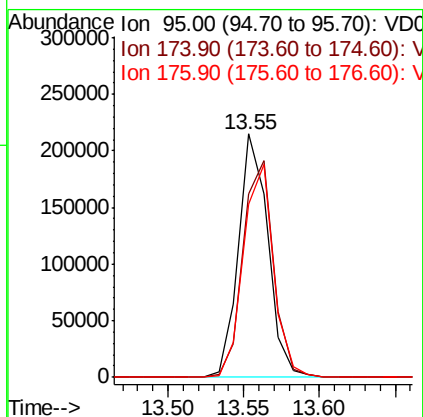
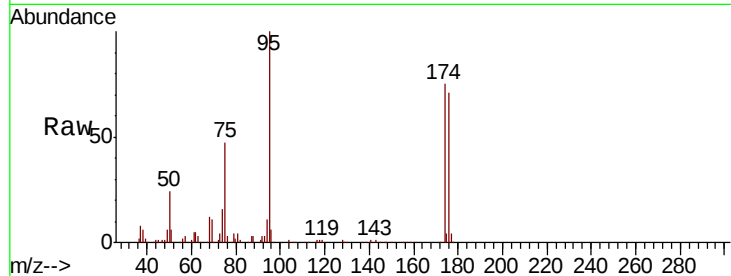




#62
4-Bromofluorobenzene
Concen: 29.598 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD063158.D
Acq: 19 Jul 2019 17:15

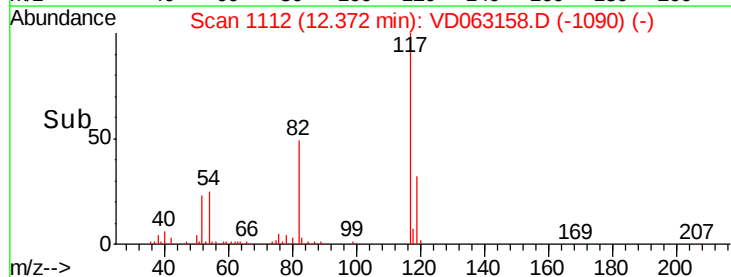
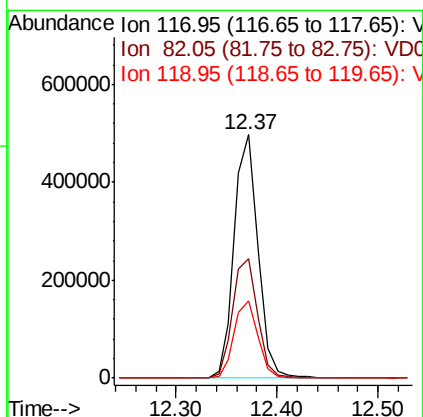
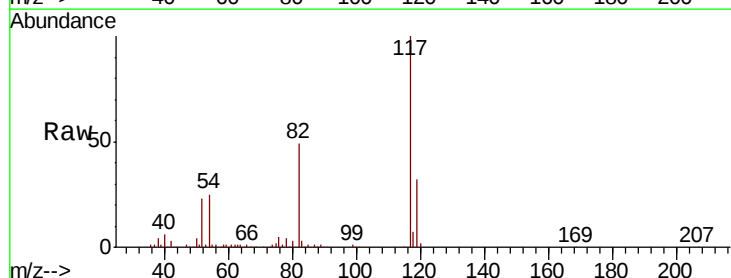
Instrument :
MSVOA_D
ClientSampleId :

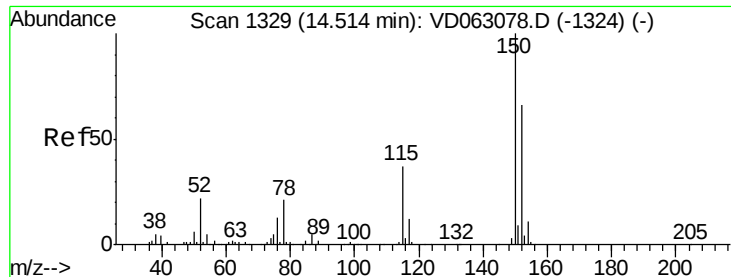
Tot Ion: 95 Resp: 289887
Ion Ratio Lower Upper
95 100
174 75.5 0.0 180.6
176 71.0 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063158.D
Acq: 19 Jul 2019 17:15

Tgt Ion: 117 Resp: 812031
Ion Ratio Lower Upper
117 100
82 49.2 42.3 63.5
119 31.8 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063158.D

Acq: 19 Jul 2019 17:15

Instrument :

MSVOA_D

ClientSampleId :

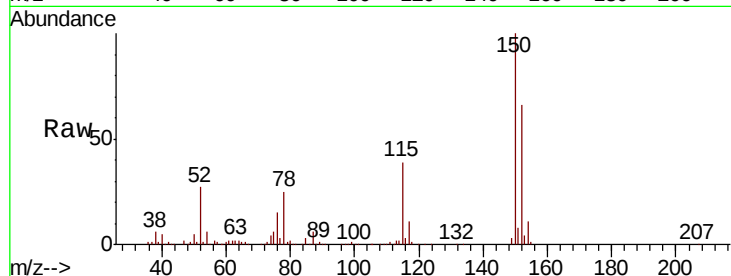
Tot Ion:152 Resp: 393431

Ion Ratio Lower Upper

152 100

115 59.8 28.9 86.8

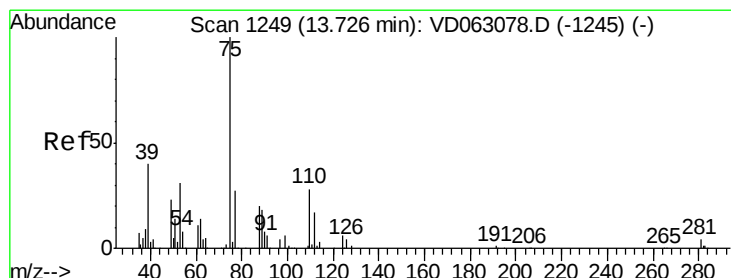
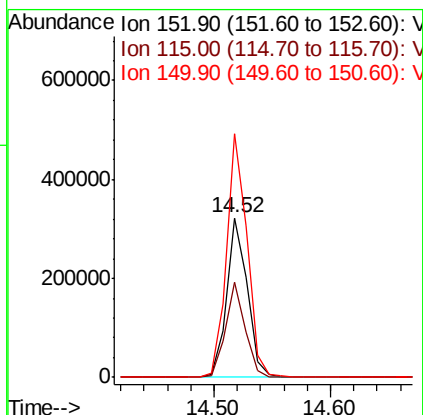
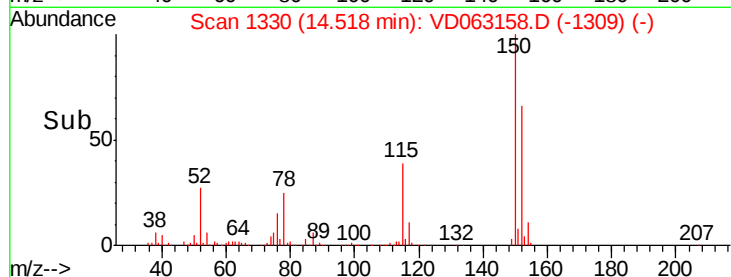
150 152.6 0.0 313.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 18.378 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD063158.D

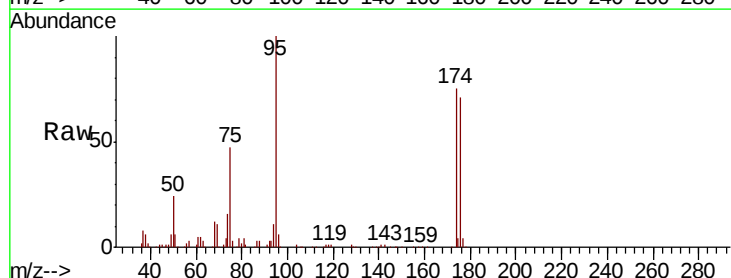
Acq: 19 Jul 2019 17:15

Tgt Ion: 75 Resp: 111224

Ion Ratio Lower Upper

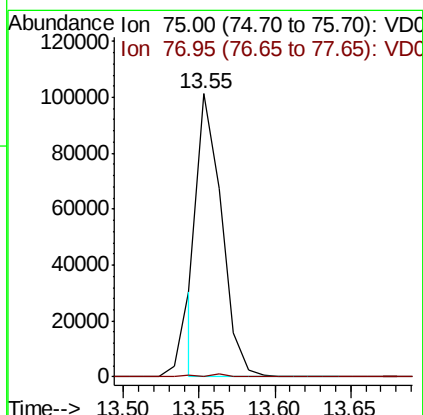
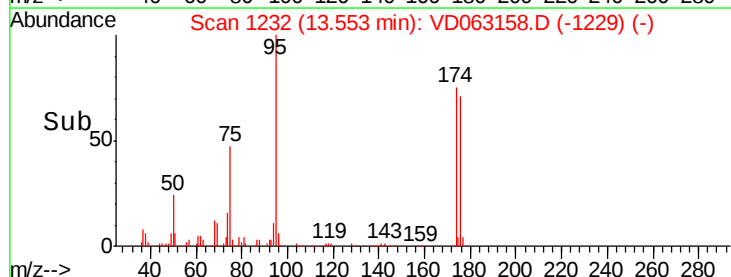
75 100

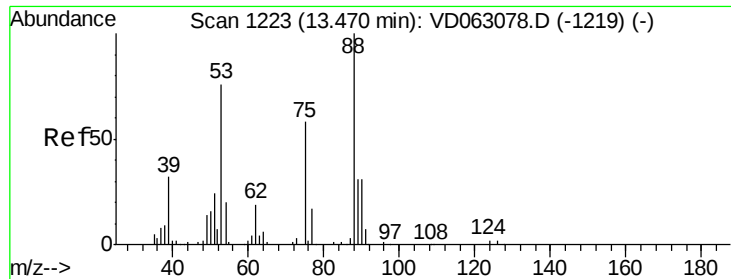
77 0.9 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 82.430 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD063158.D

Acq: 19 Jul 2019 17:15

Instrument :

MSVOA_D

ClientSampleId :

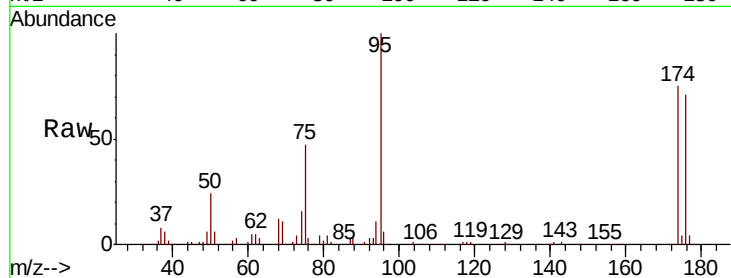
Tot Ion: 75 Resp: 131372

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

