

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063163.D
 Acq On : 19 Jul 2019 19:36
 Operator : VA/AP
 Sample : K3807-02RE
 Misc : 5.87g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 20 05:02:40 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	557855	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	765952	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	453828	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	136903	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	512104	73.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	147.38%	
35) Dibromofluoromethane	6.92	113	496496	65.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	130.16%	
50) Toluene-d8	10.41	98	937162	57.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.38%	
62) 4-Bromofluorobenzene	13.56	95	267939	35.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	70.68%	

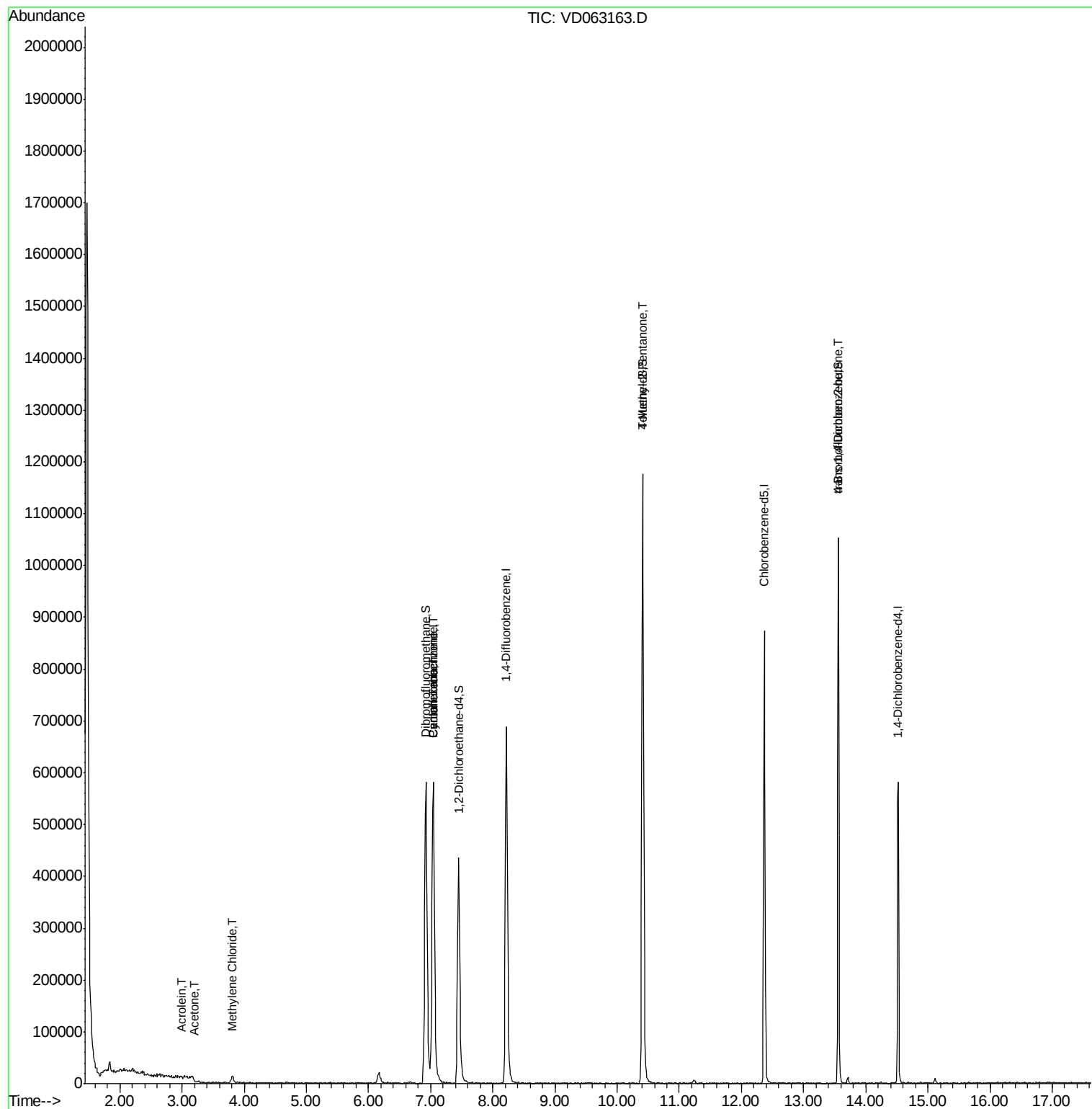
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.74	50	429	Below Cal	#	48
5) Bromomethane	2.12	94	2285	Below Cal	#	15
13) Acrolein	3.00	56	252	2.082	ug/l #	1
16) Acetone	3.20	43	2255	1.344	ug/l #	62
18) Methyl Acetate	3.63	43	1683	Below Cal	#	63
20) Methylene Chloride	3.80	84	8796	1.387	ug/l #	71
31) Cyclohexane	7.04	56	10933	1.653	ug/l #	1
38) Carbon Tetrachloride	7.04	117	53211	4.065	ug/l #	14
51) 4-Methyl-2-Pentanone	10.41	43	6176	1.762	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.56	75	121251	218.636	ug/l #	1

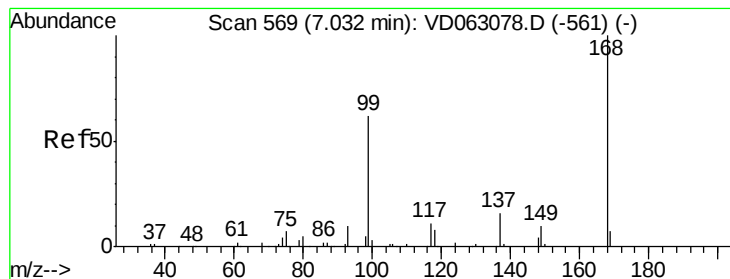
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 16 08:11:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.01 min

Lab File: VD063163.D

Acq: 19 Jul 2019 19:36

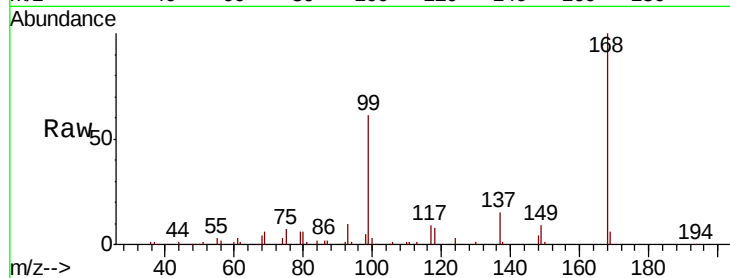
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 557855

Ion Ratio Lower Upper

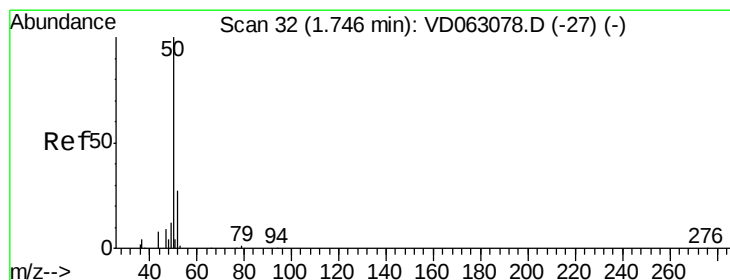
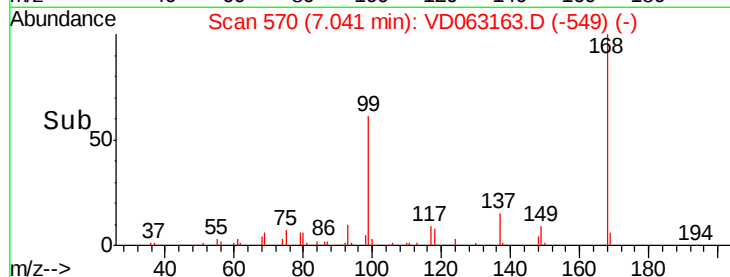
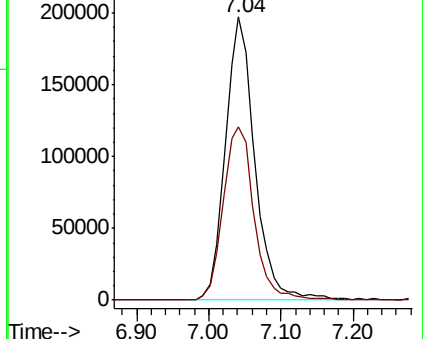
168 100

99 61.2 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: Below Cal

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD063163.D

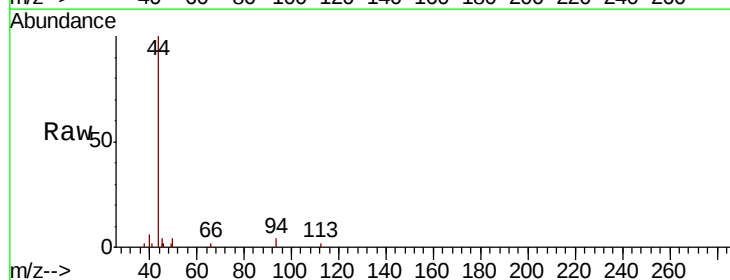
Acq: 19 Jul 2019 19:36

Tgt Ion: 50 Resp: 429

Ion Ratio Lower Upper

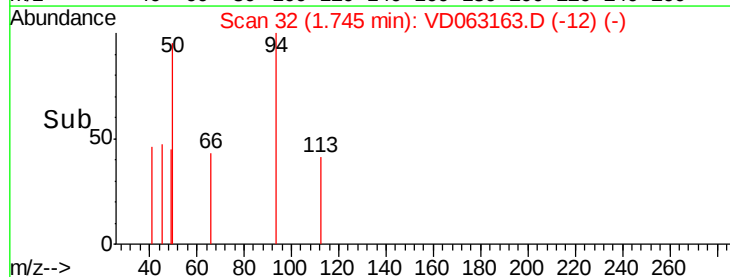
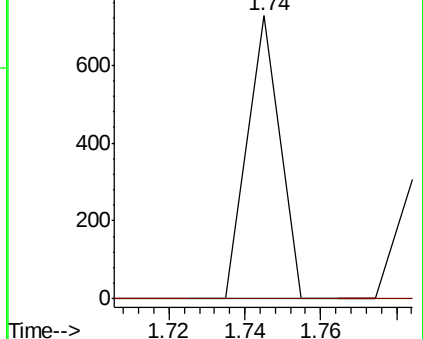
50 100

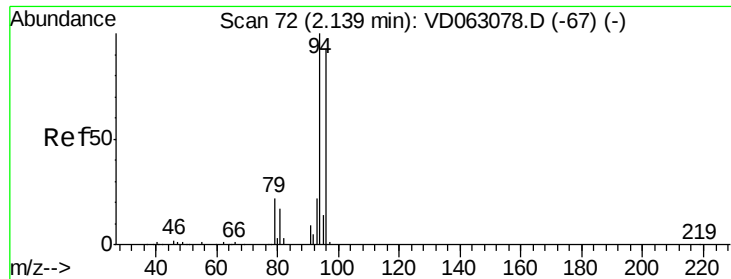
52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.12 min Scan# 70

Delta R.T. -0.02 min

Lab File: VD063163.D

Acq: 19 Jul 2019 19:36

Instrument :

MSVOA_D

ClientSampled :

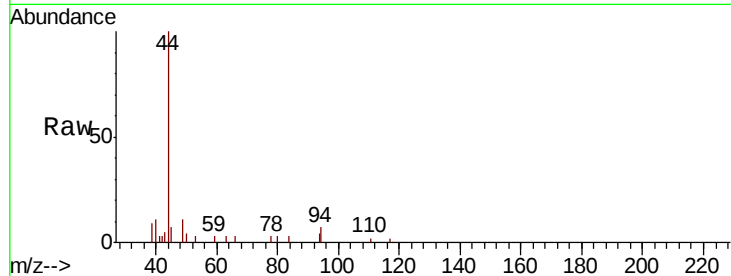
Tot Ion: 94 Resp: 2285

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

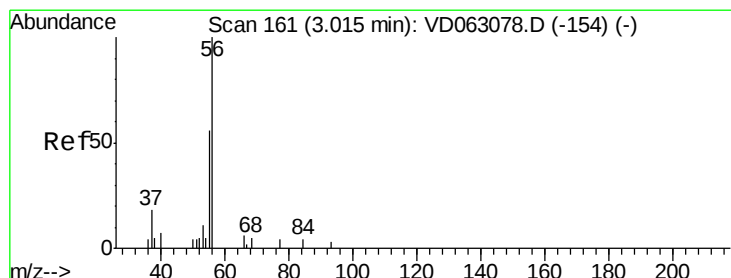
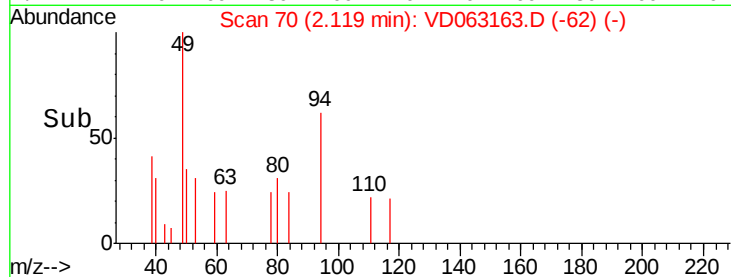
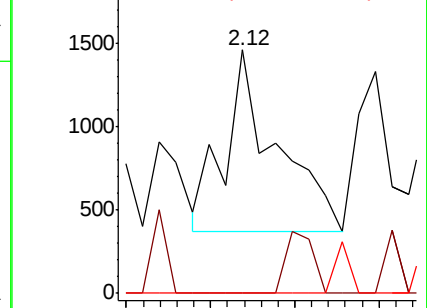
93 39.6 17.8 26.6#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#13

Acrolein

Concen: 2.082 ug/l

RT: 3.00 min Scan# 159

Delta R.T. -0.02 min

Lab File: VD063163.D

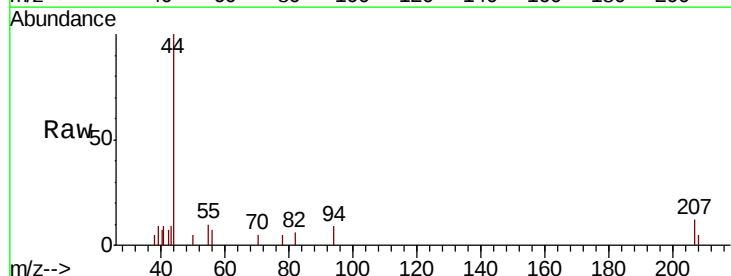
Acq: 19 Jul 2019 19:36

Tgt Ion: 56 Resp: 252

Ion Ratio Lower Upper

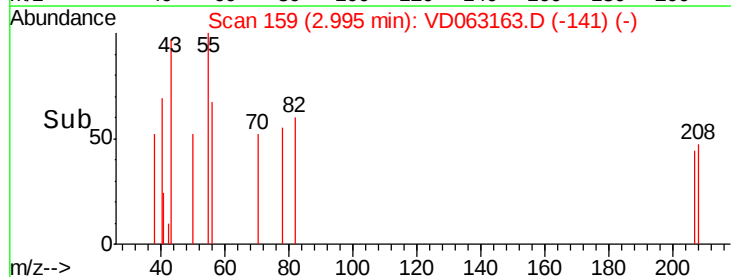
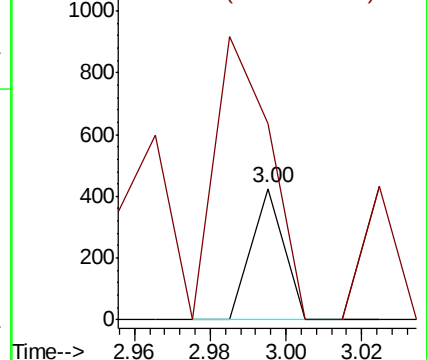
56 100

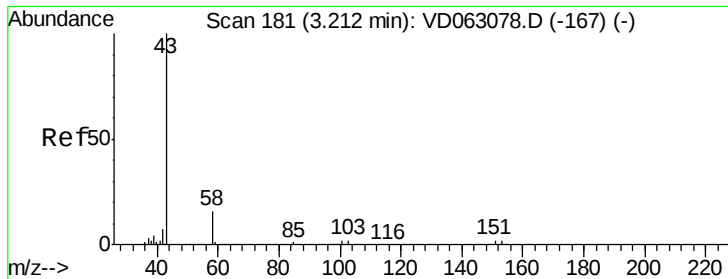
55 149.3 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 1.344 ug/l

RT: 3.20 min Scan# 180

Delta R.T. -0.01 min

Lab File: VD063163.D

Acq: 19 Jul 2019 19:36

Instrument :

MSVOA_D

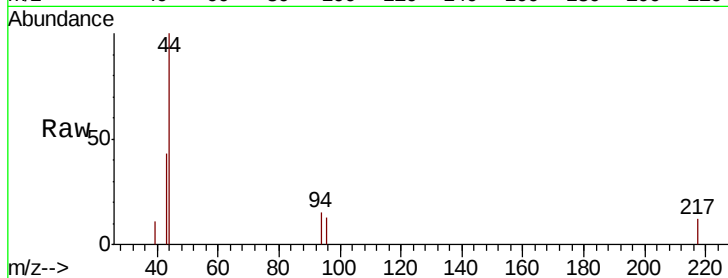
ClientSampleId :

Tot Ion: 43 Resp: 2255

Ion Ratio Lower Upper

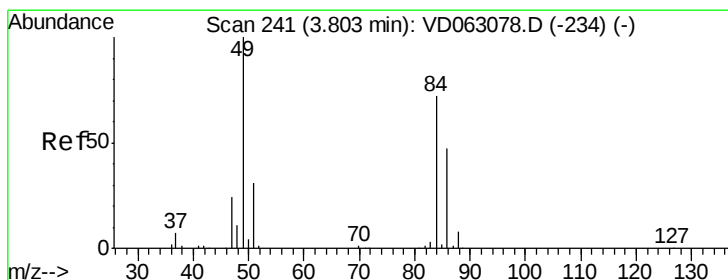
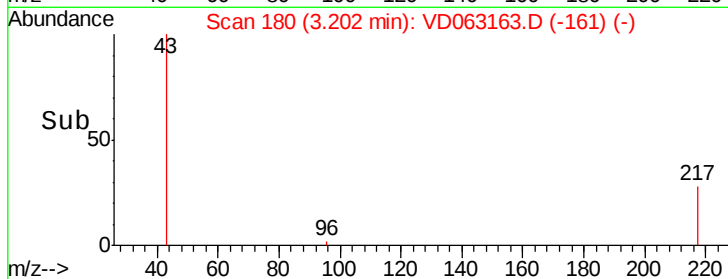
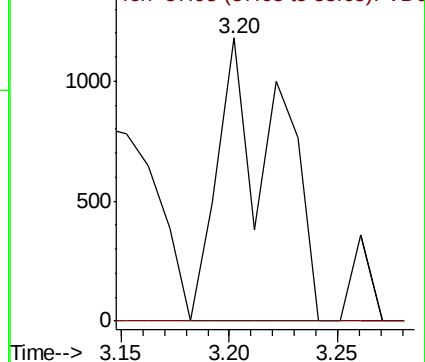
43 100

58 0.0 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 1.387 ug/l

RT: 3.80 min Scan# 241

Delta R.T. -0.00 min

Lab File: VD063163.D

Acq: 19 Jul 2019 19:36

Tgt Ion: 84 Resp: 8796

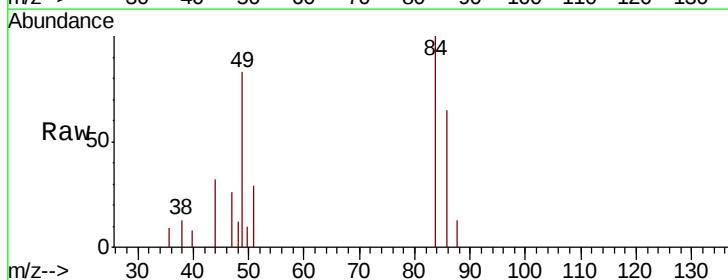
Ion Ratio Lower Upper

84 100

49 83.4 110.5 165.7#

51 29.0 34.6 51.8#

86 64.7 51.6 77.4

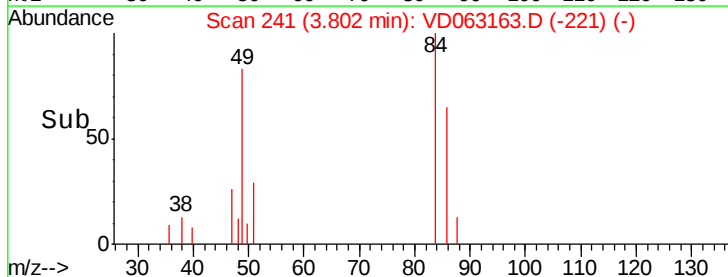
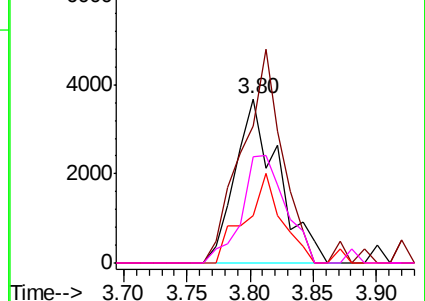


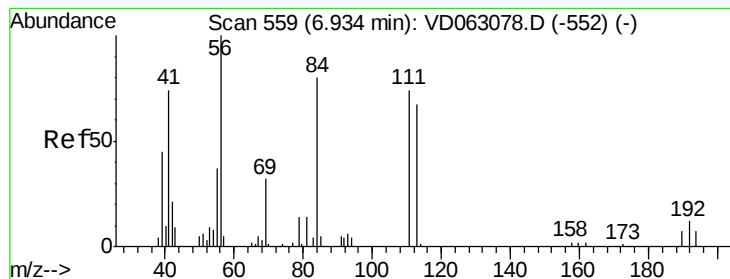
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#31

Cyclohexane

Concen: 1.653 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.11 min

Lab File: VD063163.D

Acq: 19 Jul 2019 19:36

Instrument :

MSVOA_D

ClientSampled :

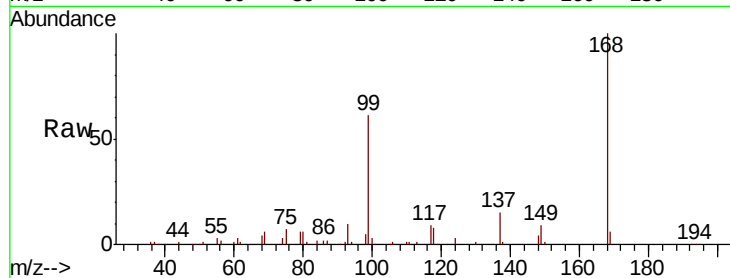
Tot Ion: 56 Resp: 10933

Ion Ratio Lower Upper

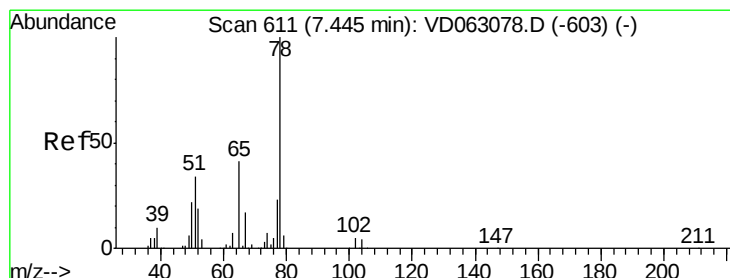
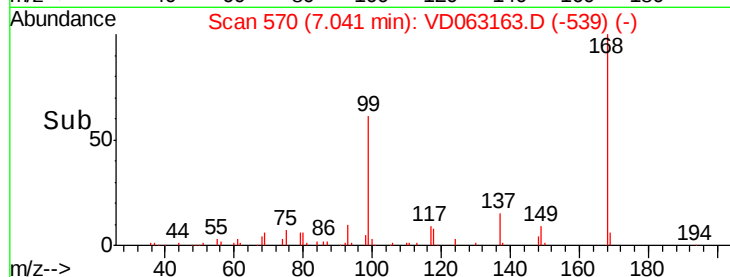
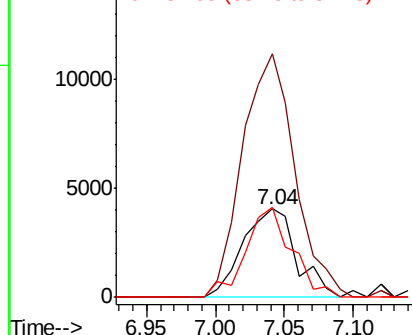
56 100

69 275.9 25.3 37.9#

84 101.6 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: 73.693 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.01 min

Lab File: VD063163.D

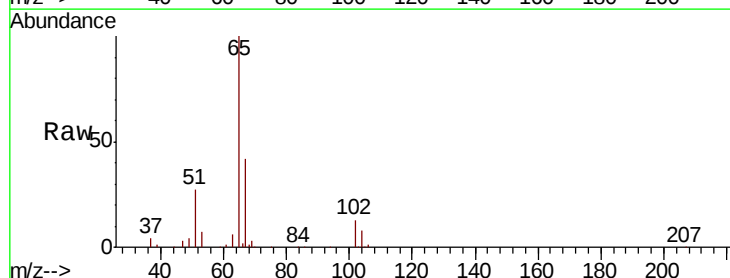
Acq: 19 Jul 2019 19:36

Tgt Ion: 65 Resp: 512104

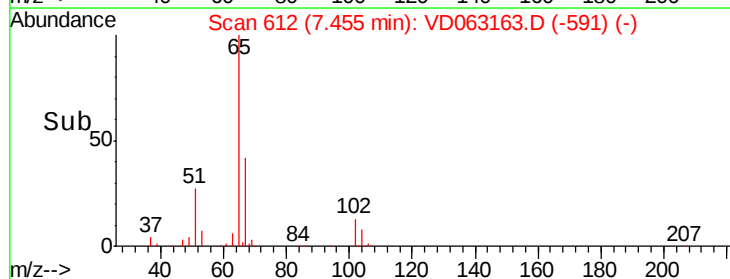
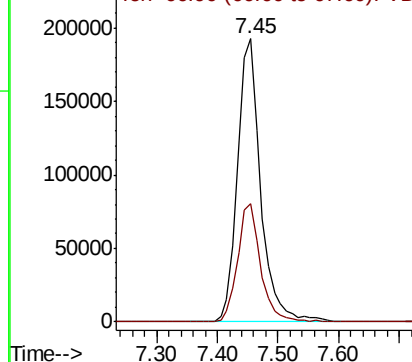
Ion Ratio Lower Upper

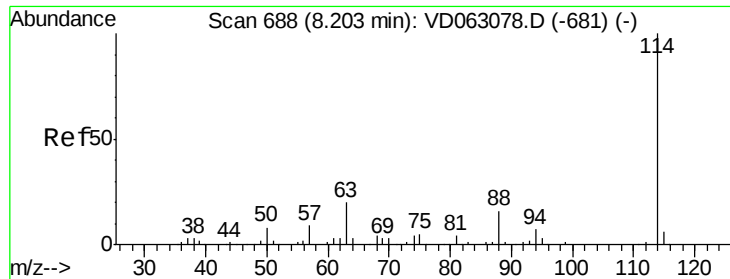
65 100

67 41.9 0.0 86.0



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

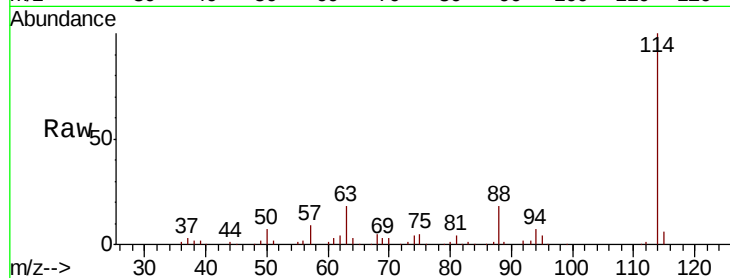




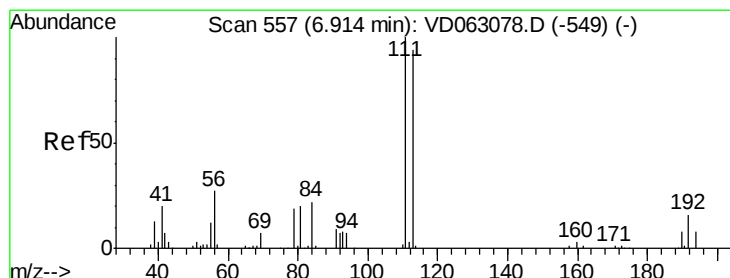
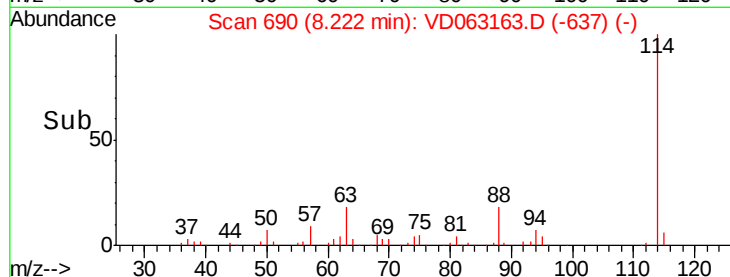
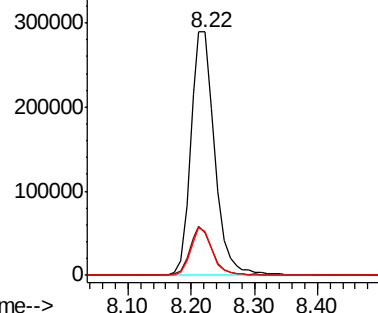
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.02 min
 Lab File: VD063163.D
 Acq: 19 Jul 2019 19:36

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	40.6
88	18.1	0.0	32.6

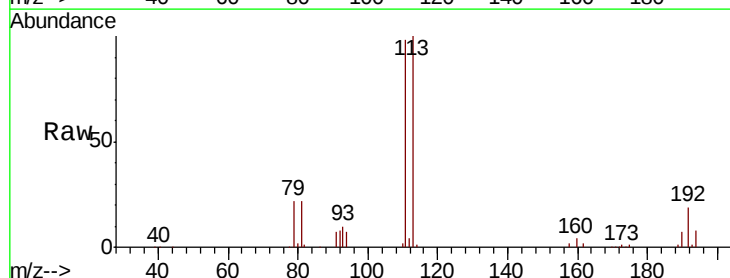


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

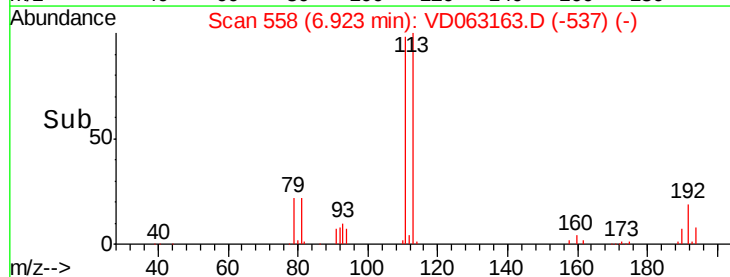
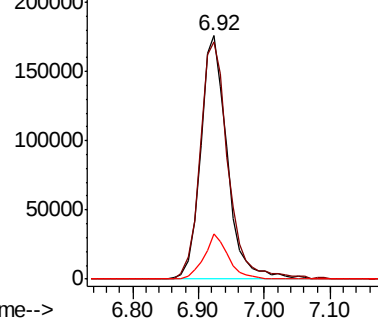


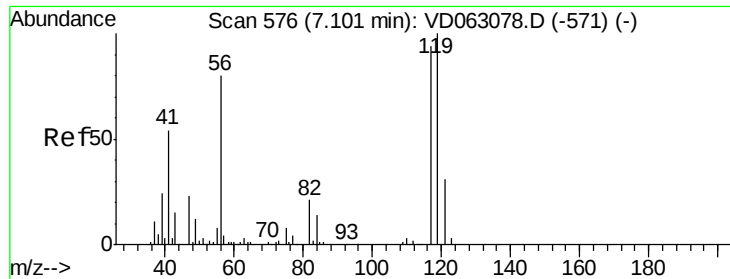
#35
 Dibromofluoromethane
 Concen: 65.080 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.01 min
 Lab File: VD063163.D
 Acq: 19 Jul 2019 19:36

Tgt Ion	Ratio	Lower	Upper
113	100		
111	97.6	84.8	127.2
192	18.6	13.4	20.0



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

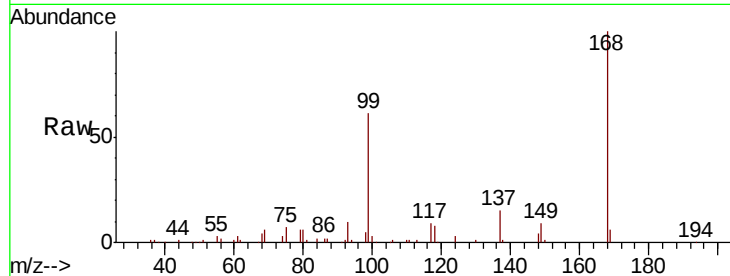




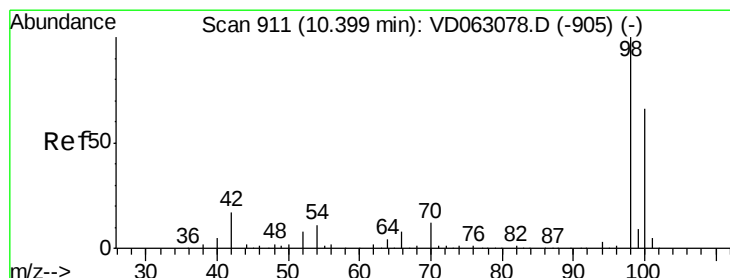
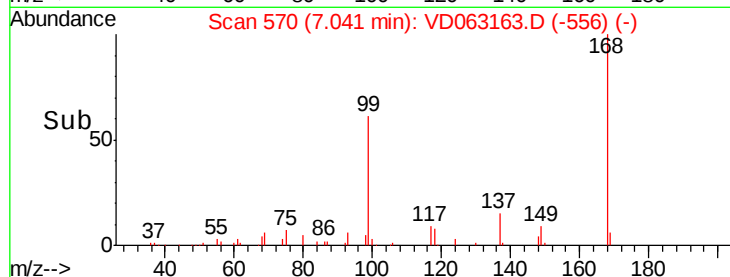
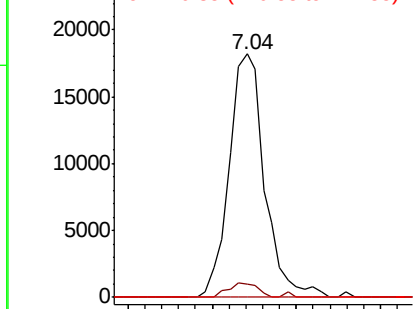
#38
Carbon Tetrachloride
Concen: 4.065 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.06 min
Lab File: VD063163.D
Acq: 19 Jul 2019 19:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 53211
Ion Ratio Lower Upper
117 100
119 5.3 80.0 120.0#
121 0.0 25.0 37.4#

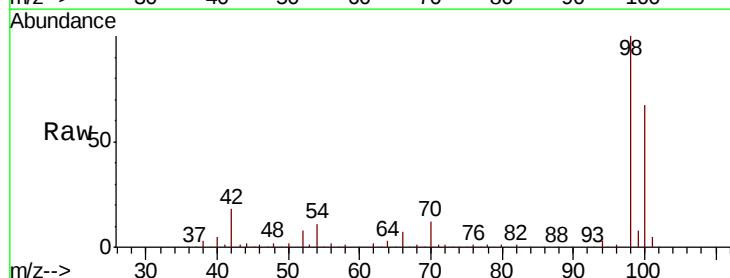


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

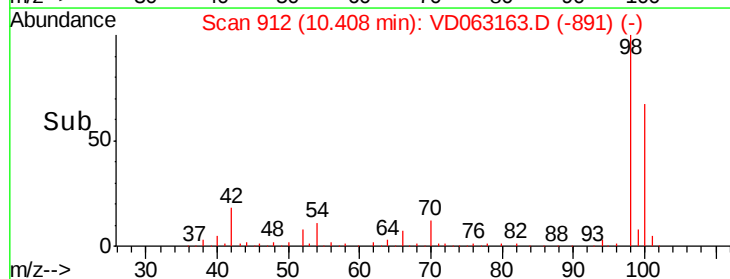
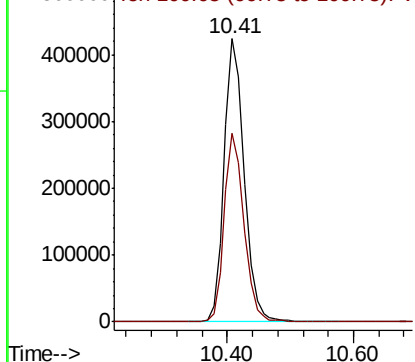


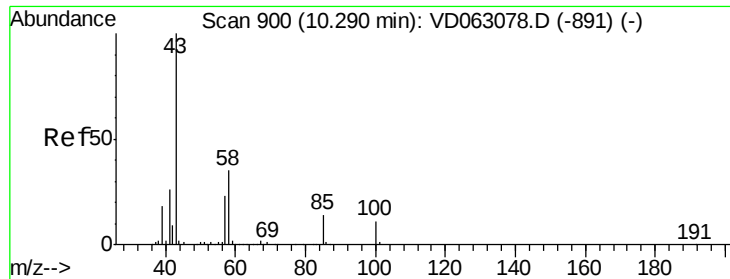
#50
Toluene-d8
Concen: 57.188 ug/l
RT: 10.41 min Scan# 912
Delta R.T. 0.01 min
Lab File: VD063163.D
Acq: 19 Jul 2019 19:36

Tgt Ion: 98 Resp: 937162
Ion Ratio Lower Upper
98 100
100 66.6 53.5 80.3



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





#51

4-Methyl-2-Pentanone

Concen: 1.762 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.12 min

Lab File: VD063163.D

Acq: 19 Jul 2019 19:36

Instrument :

MSVOA_D

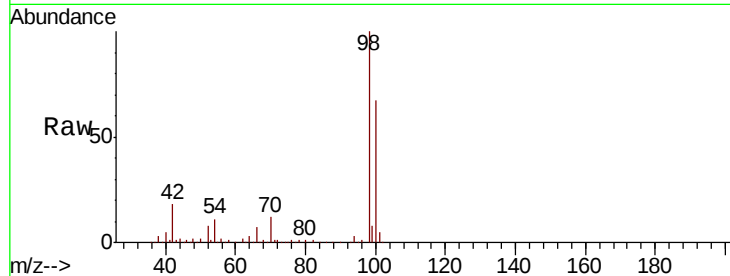
ClientSampleId :

Tot Ion: 43 Resp: 6176

Ion Ratio Lower Upper

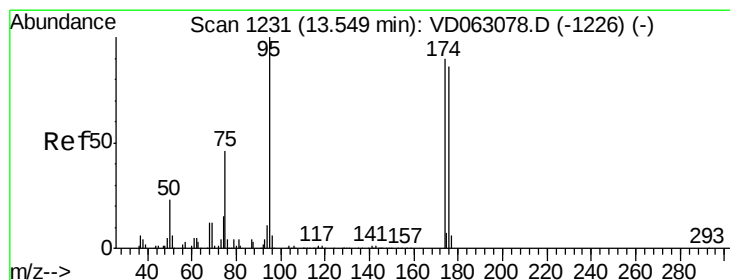
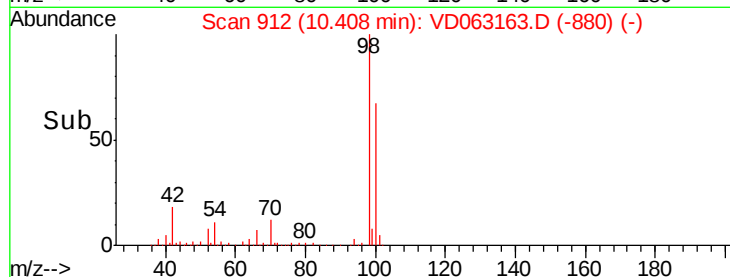
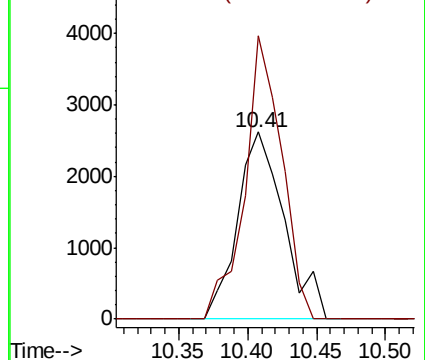
43 100

58 151.2 27.8 41.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 35.342 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.01 min

Lab File: VD063163.D

Acq: 19 Jul 2019 19:36

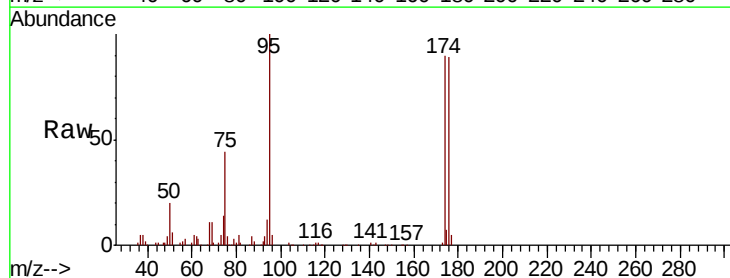
Tgt Ion: 95 Resp: 267939

Ion Ratio Lower Upper

95 100

174 89.8 0.0 180.6

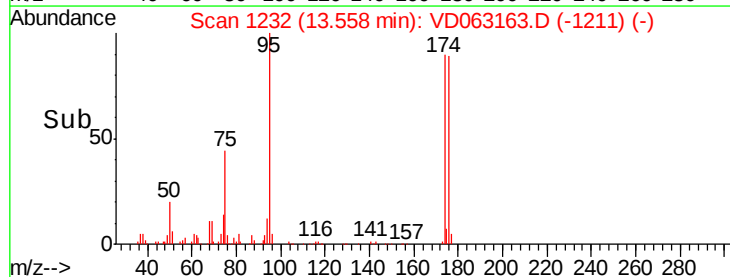
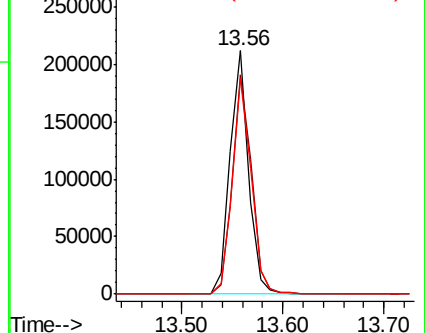
176 88.6 0.0 172.2

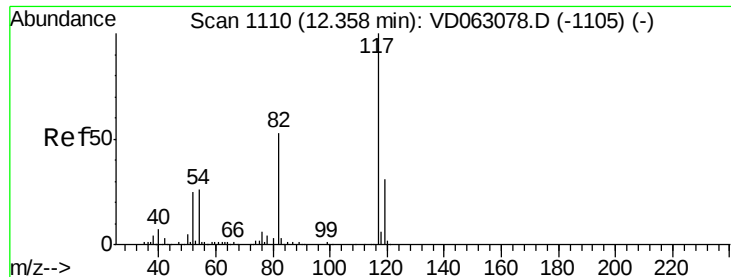


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

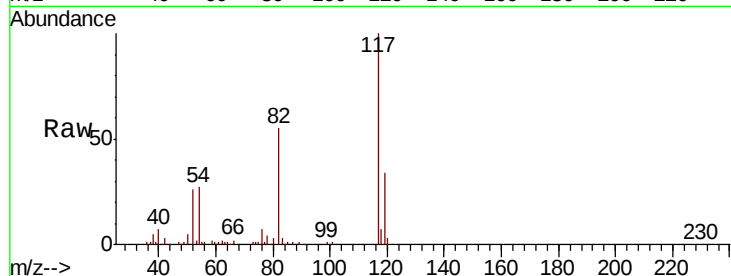




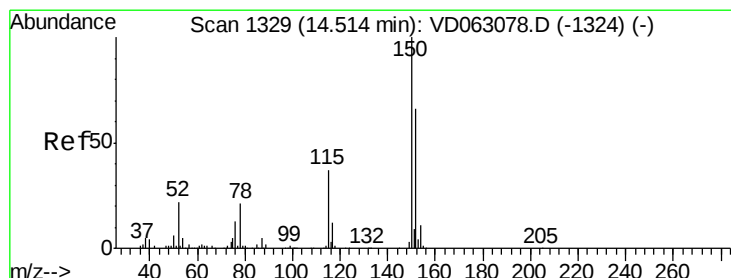
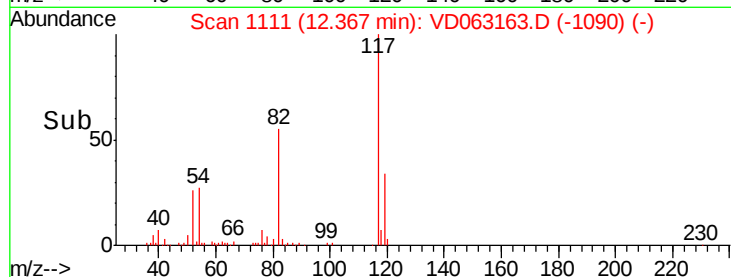
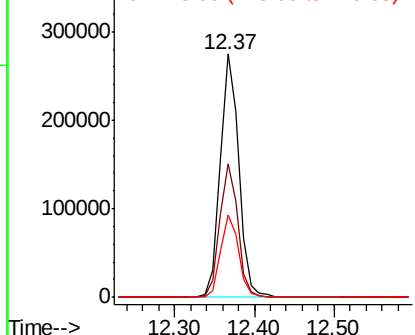
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VD063163.D
Acq: 19 Jul 2019 19:36

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 453828
Ion Ratio Lower Upper
117 100
82 55.0 42.3 63.5
119 33.7 25.2 37.8

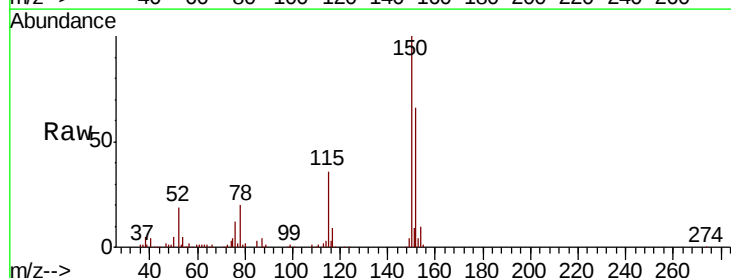


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

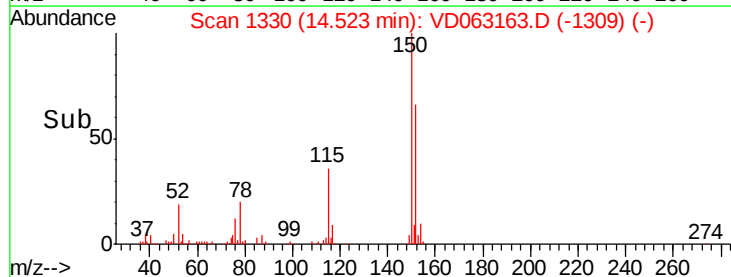
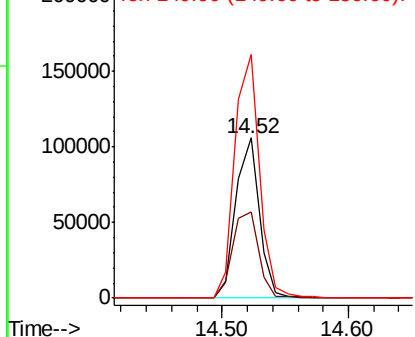


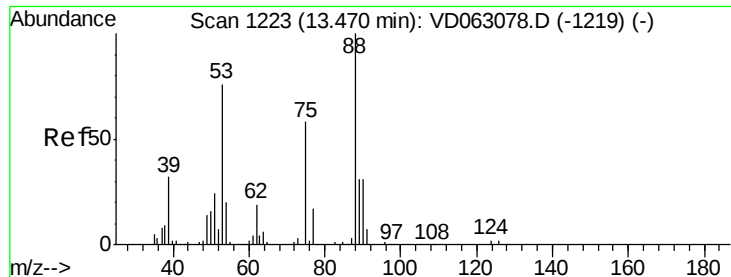
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.01 min
Lab File: VD063163.D
Acq: 19 Jul 2019 19:36

Tgt Ion:152 Resp: 136903
Ion Ratio Lower Upper
152 100
115 54.0 28.9 86.8
150 151.8 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





#81

trans-1,4-Dichloro-2-butene

Concen: 218.636 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063163.D

Acq: 19 Jul 2019 19:36

Instrument :

MSVOA_D

ClientSampleId :

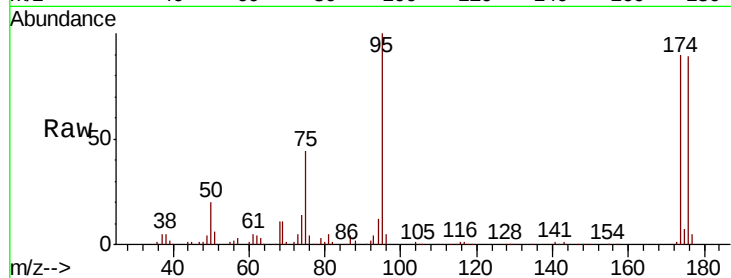
Tot Ion: 75 Resp: 121251

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

