

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062771.D
 Acq On : 19 Jun 2019 3:45
 Operator : VA/AP
 Sample : K3157-01
 Misc : 7.65g/5ml/MSVOA D/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 07:05:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	717833	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	1030571	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	727236	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	311619	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	450399	43.48	ug/l	0.01
Spiked Amount 50.000			Recovery =	86.96%		
35) Dibromofluoromethane	6.93	113	470850	43.32	ug/l	0.01
Spiked Amount 50.000			Recovery =	86.64%		
50) Toluene-d8	10.41	98	805633	35.24	ug/l	0.00
Spiked Amount 50.000			Recovery =	70.48%		
62) 4-Bromofluorobenzene	13.55	95	322434	30.23	ug/l	0.00
Spiked Amount 50.000			Recovery =	60.46%		

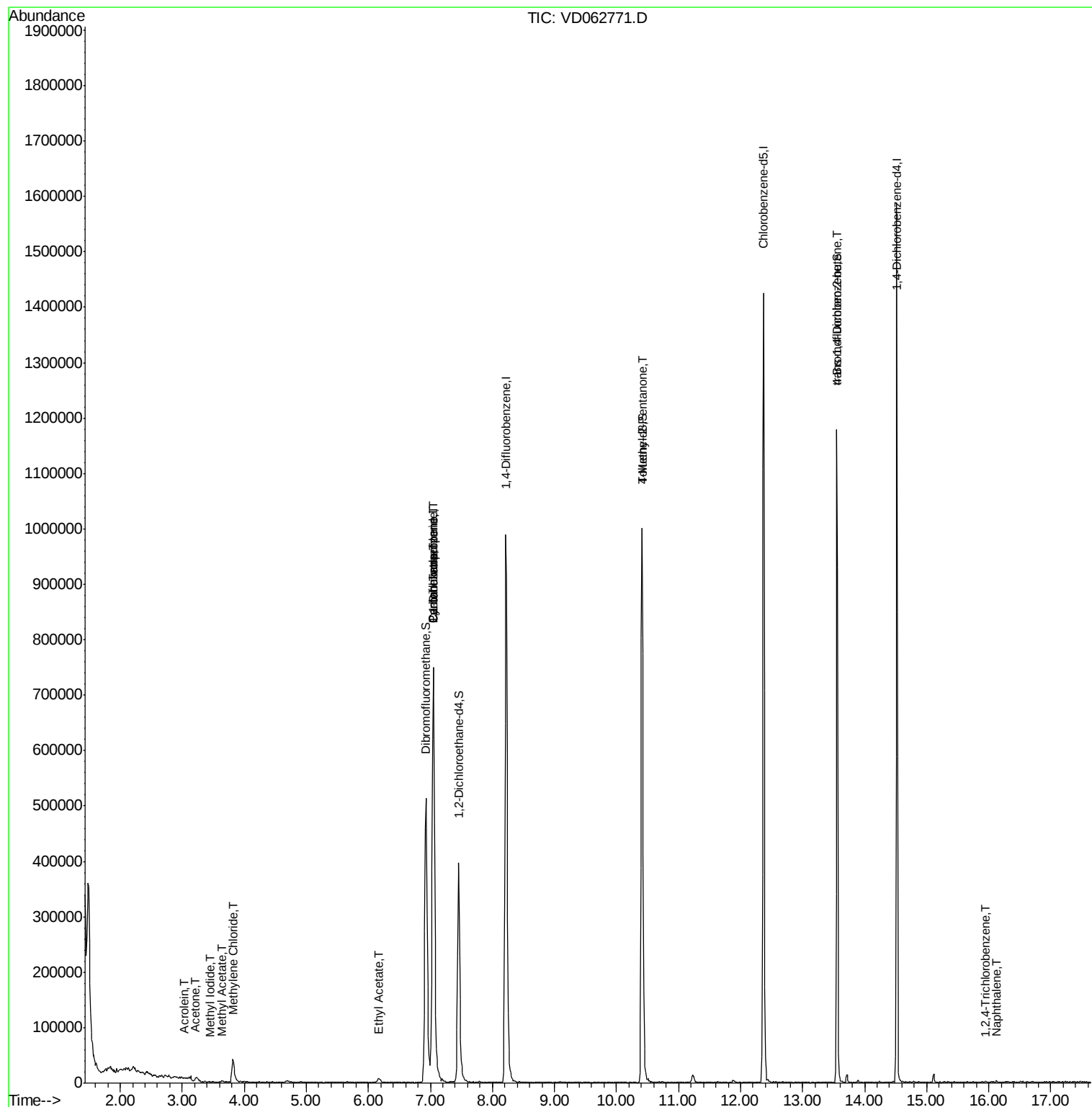
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.45	142	250	4.027	ug/l #	24
13) Acrolein	3.04	56	431	3.147	ug/l #	70
16) Acetone	3.23	43	16454	8.675	ug/l #	86
18) Methyl Acetate	3.65	43	3529	1.132	ug/l #	64
20) Methylene Chloride	3.82	84	26934	3.346	ug/l #	86
31) Cyclohexane	7.05	56	17703	2.166	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	56672	4.805	ug/l #	50
37) Ethyl Acetate	6.17	43	457	1.290	ug/l #	74
38) Carbon Tetrachloride	7.05	117	79082	4.242	ug/l #	17
51) 4-Methyl-2-Pentanone	10.40	43	5110	1.173	ug/l #	13
81) trans-1,4-Dichloro-2-buten	13.55	75	158556	120.577	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	528	3.629	ug/l #	76
95) Naphthalene	16.12	128	1870	3.603	ug/l #	71

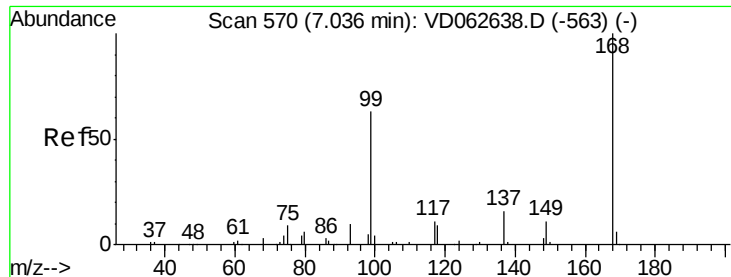
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061819\
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Acq On : 19 Jun 2019 3:45
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062771.D

Acq: 19 Jun 2019 3:45

Instrument :

MSVOA_D

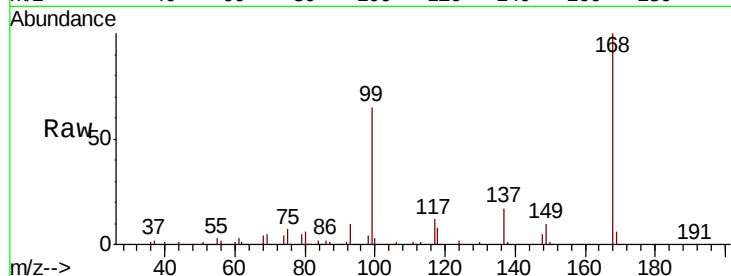
ClientSampleId :

Tot Ion:168 Resp: 717833

Ion Ratio Lower Upper

168 100

99 65.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.05

250000

200000

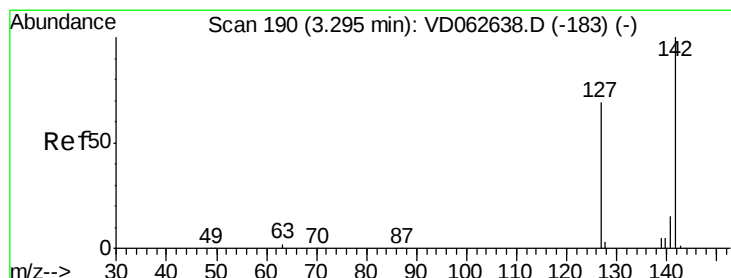
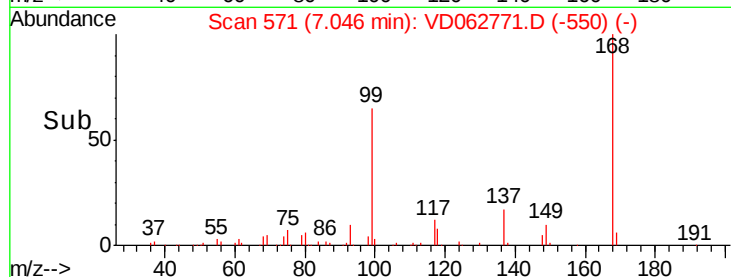
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 4.027 ug/l

RT: 3.45 min Scan# 206

Delta R.T. 0.16 min

Lab File: VD062771.D

Acq: 19 Jun 2019 3:45

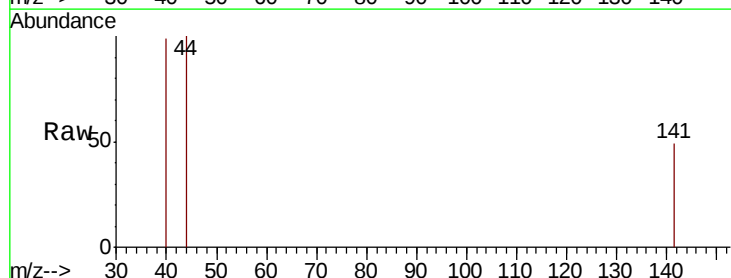
Tgt Ion:142 Resp: 250

Ion Ratio Lower Upper

142 100

127 0.0 55.2 82.8#

141 0.0 12.1 18.1#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.45

500

400

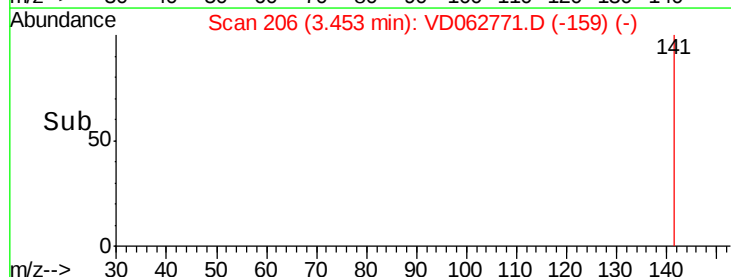
300

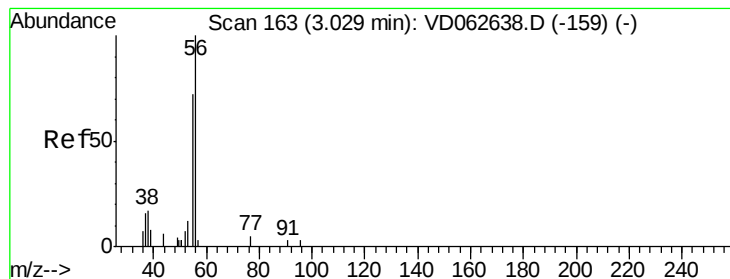
200

100

0

Time-->





#13

Acrolein

Concen: 3.147 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD062771.D

Acq: 19 Jun 2019 3:45

Instrument :

MSVOA_D

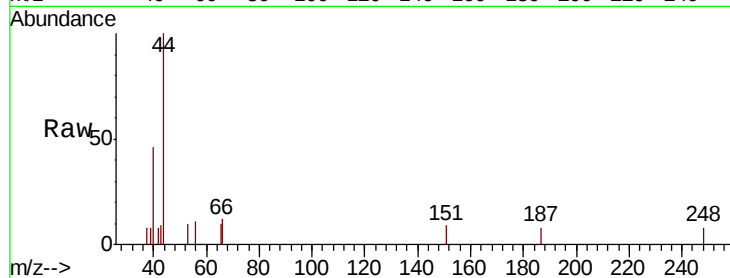
ClientSampled :

Tot Ion: 56 Resp: 431

Ion Ratio Lower Upper

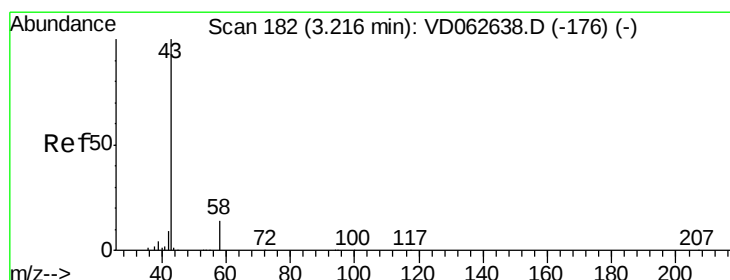
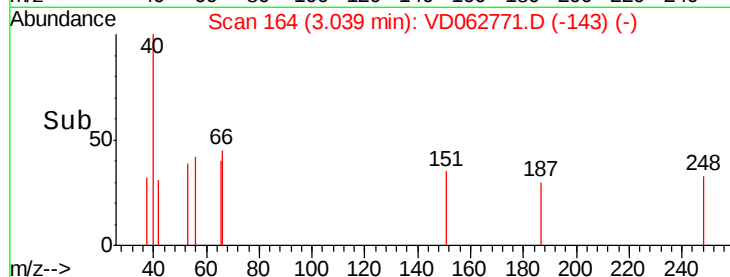
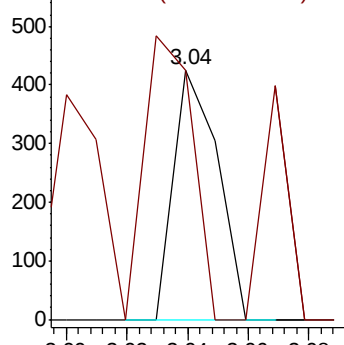
56 100

55 100.0 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 8.675 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062771.D

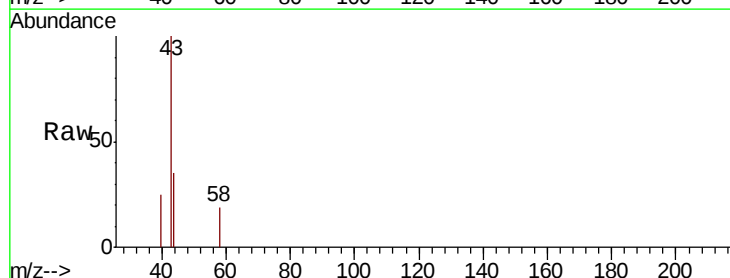
Acq: 19 Jun 2019 3:45

Tgt Ion: 43 Resp: 16454

Ion Ratio Lower Upper

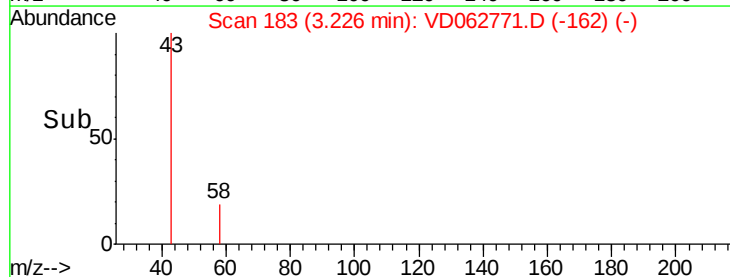
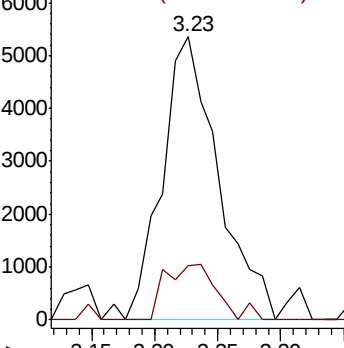
43 100

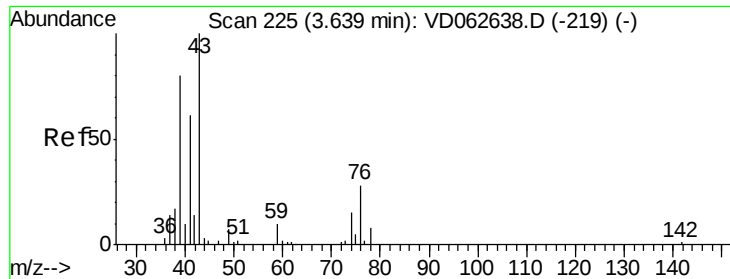
58 19.1 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

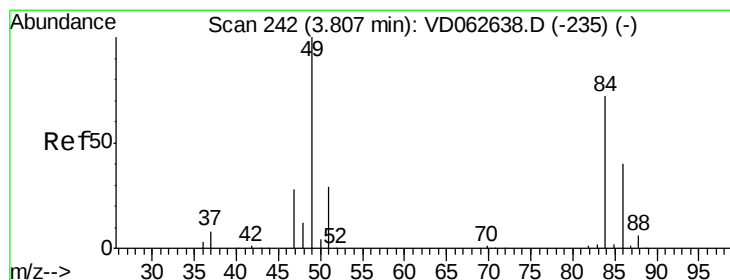
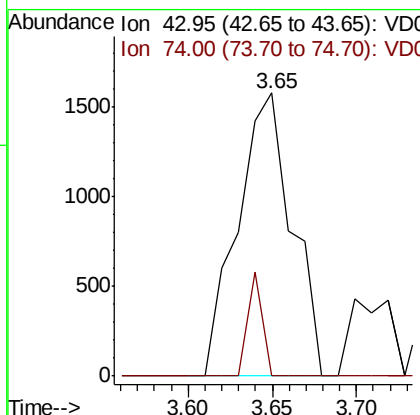
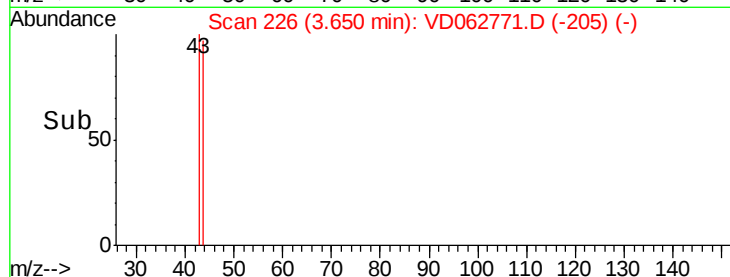
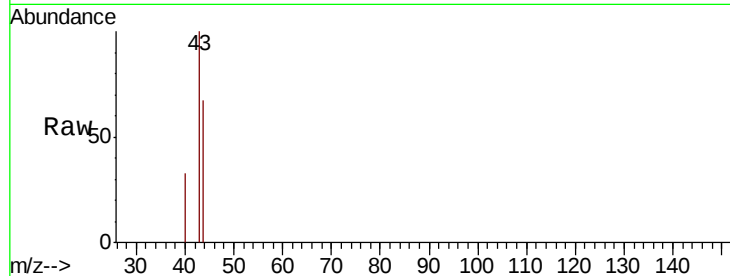




#18
Methyl Acetate
Concen: 1.132 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD062771.D
Acq: 19 Jun 2019 3:45

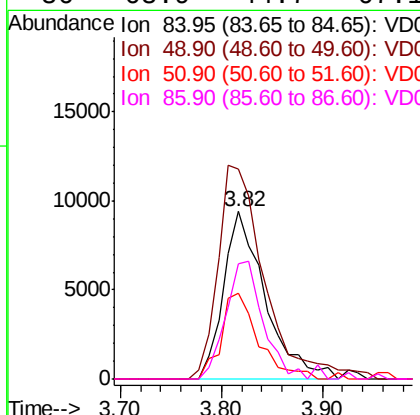
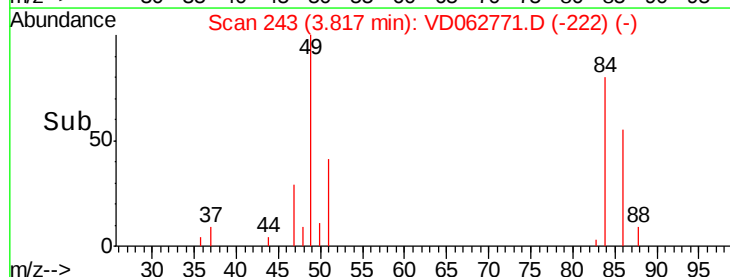
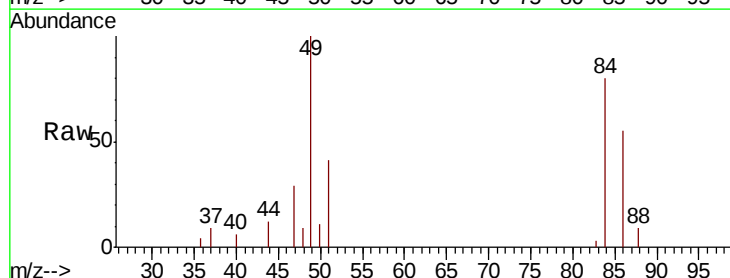
Instrument :
MSVOA_D
ClientSampleId :

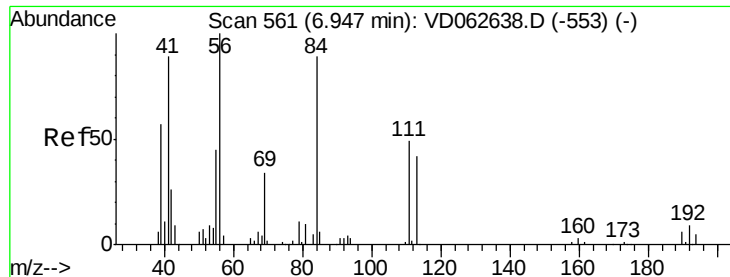
Tot Ion: 43 Resp: 3529
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: 3.346 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD062771.D
Acq: 19 Jun 2019 3:45

Tgt Ion: 84 Resp: 26934
Ion Ratio Lower Upper
84 100
49 125.0 111.2 166.8
51 51.0 31.9 47.9#
86 68.9 44.7 67.1#





#31

Cyclohexane

Concen: 2.166 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.10 min

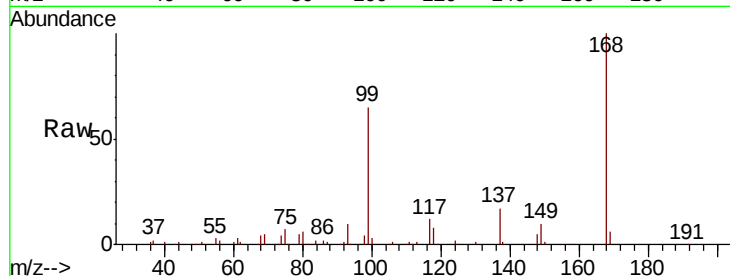
Lab File: VD062771.D

Acq: 19 Jun 2019 3:45

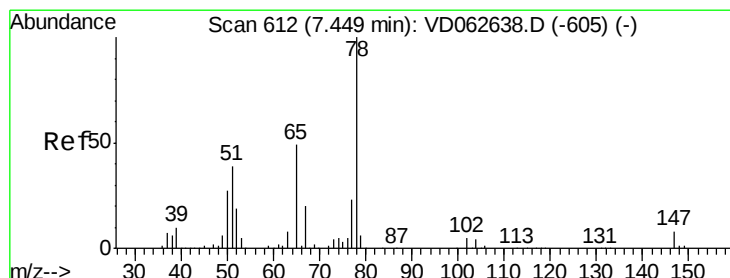
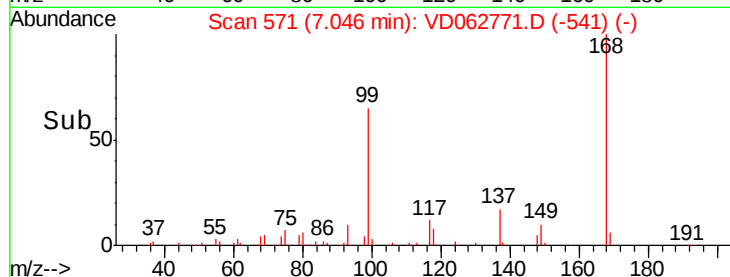
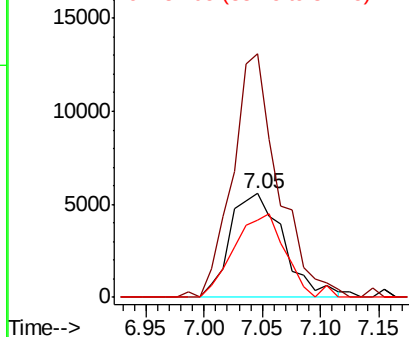
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 17703

Ion	Ratio	Lower	Upper
56	100		
69	235.1	26.8	40.2#
84	74.3	73.9	110.9



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: 43.482 ug/l

RT: 7.46 min Scan# 613

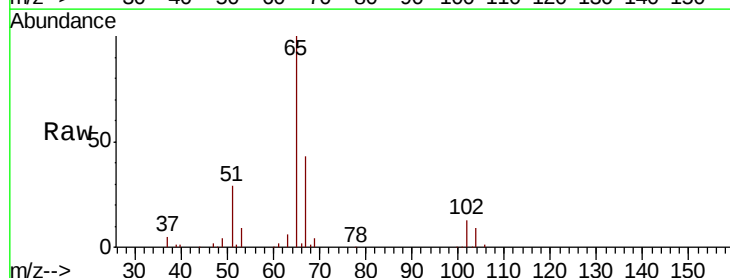
Delta R.T. 0.01 min

Lab File: VD062771.D

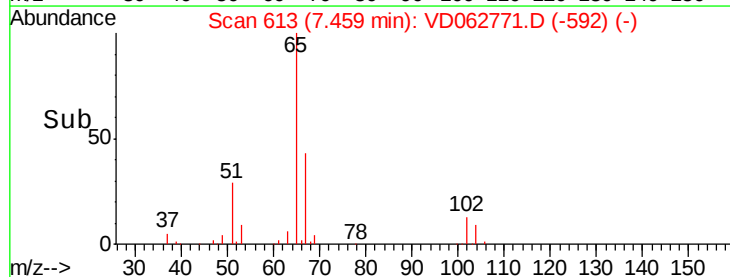
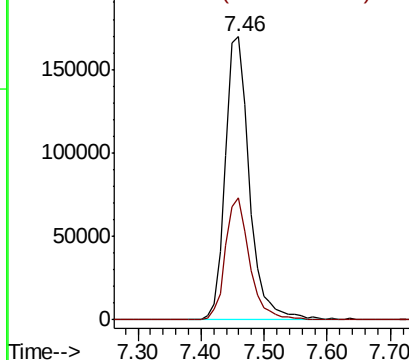
Acq: 19 Jun 2019 3:45

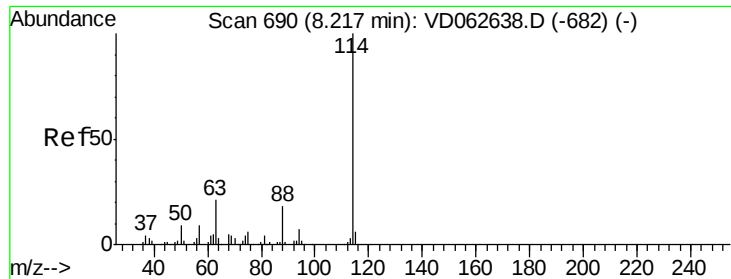
Tgt Ion: 65 Resp: 450399

Ion	Ratio	Lower	Upper
65	100		
67	43.2	0.0	81.8



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



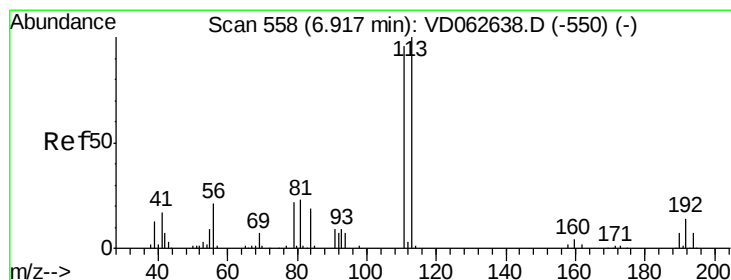
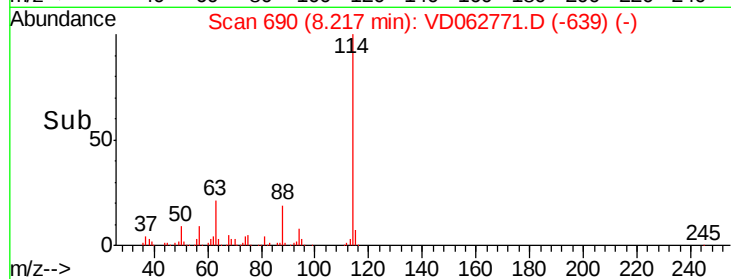
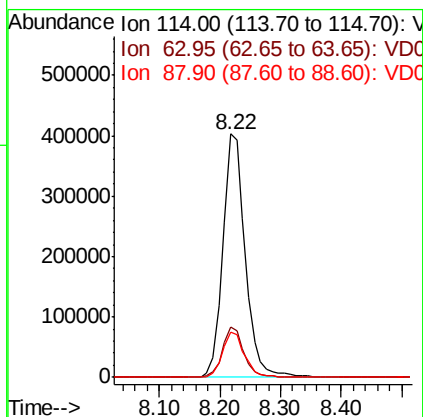
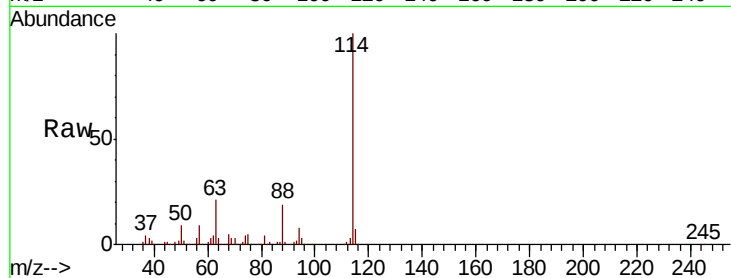


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.00 min
 Lab File: VD062771.D
 Acq: 19 Jun 2019 3:45

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:114 Resp: 1030571

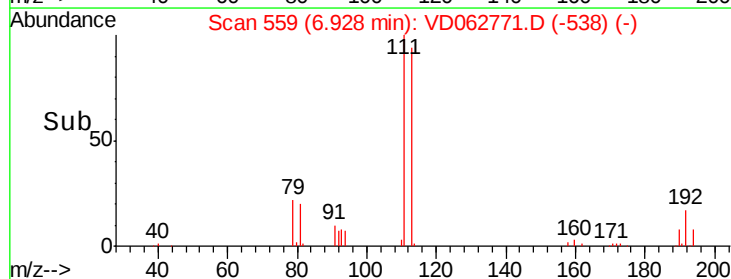
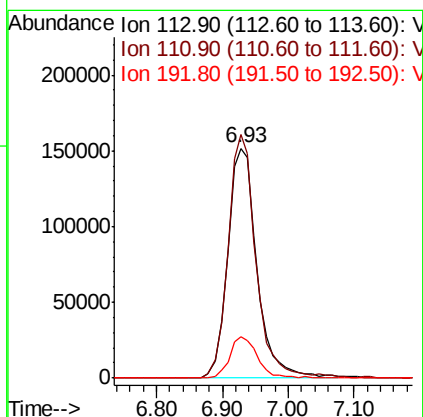
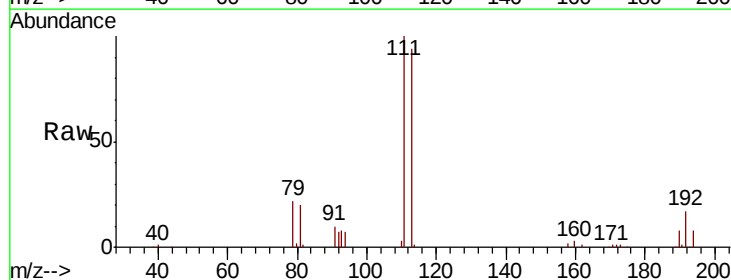
Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	42.4
88	18.8	0.0	36.8

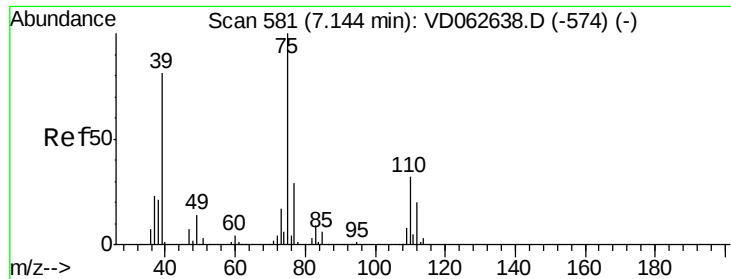


#35
 Dibromofluoromethane
 Concen: 43.321 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD062771.D
 Acq: 19 Jun 2019 3:45

Tgt Ion:113 Resp: 470850

Ion	Ratio	Lower	Upper
113	100		
111	105.9	76.4	114.6
192	18.1	11.4	17.0#





#36

1,1-Dichloropropene

Concen: 4.805 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062771.D

Acq: 19 Jun 2019 3:45

Instrument :

MSVOA_D

ClientSampled :

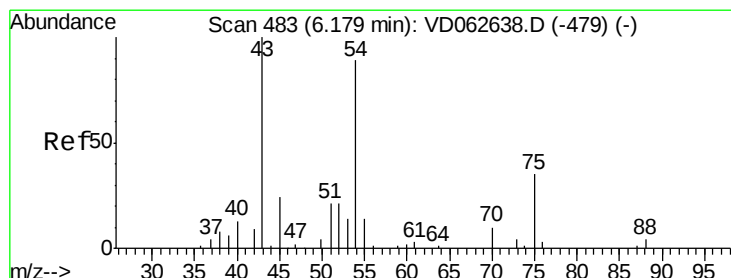
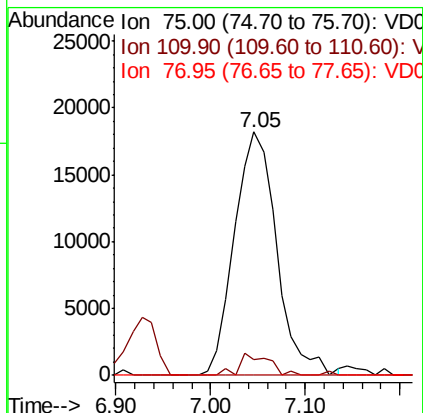
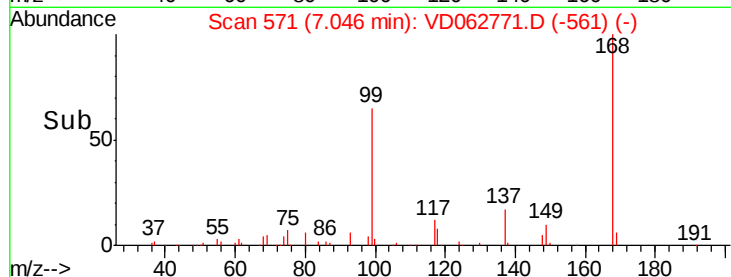
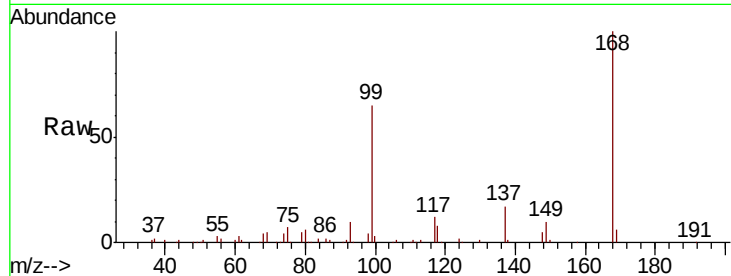
Tot Ion: 75 Resp: 56672

Ion Ratio Lower Upper

75 100

110 6.3 15.9 47.7#

77 0.0 23.3 34.9#



#37

Ethyl Acetate

Concen: 1.290 ug/l

RT: 6.17 min Scan# 482

Delta R.T. -0.01 min

Lab File: VD062771.D

Acq: 19 Jun 2019 3:45

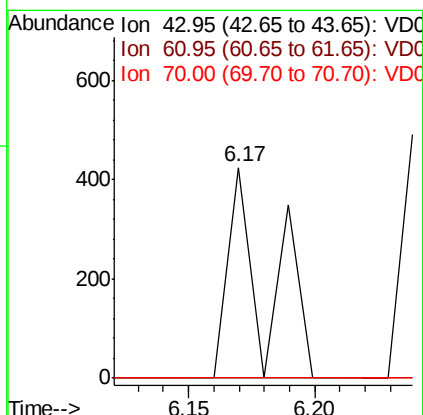
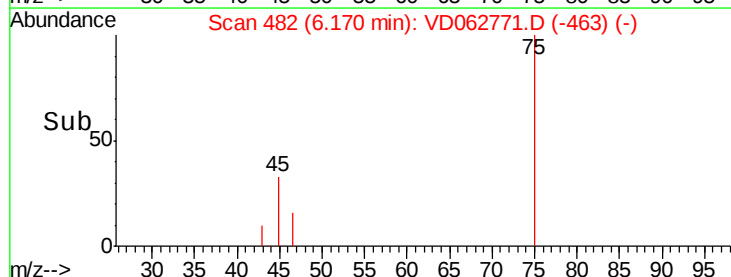
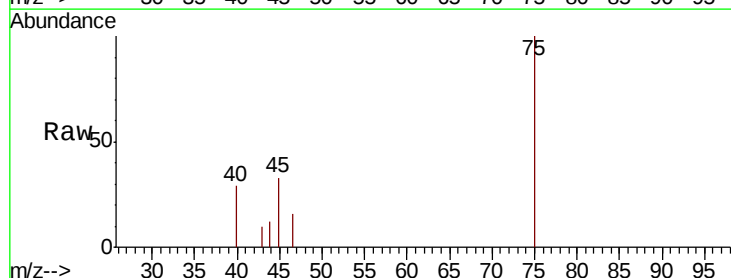
Tgt Ion: 43 Resp: 457

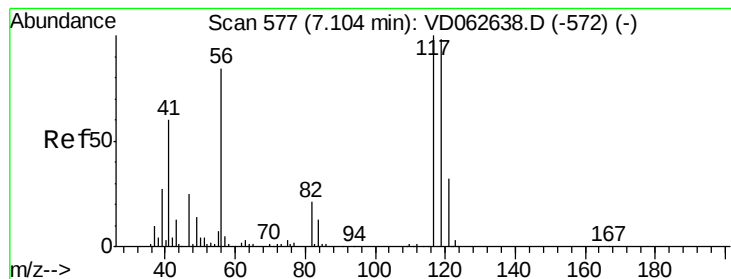
Ion Ratio Lower Upper

43 100

61 0.0 8.7 13.1#

70 0.0 6.5 9.7#





#38

Carbon Tetrachloride

Concen: 4.242 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.06 min

Lab File: VD062771.D

Acq: 19 Jun 2019 3:45

Instrument :

MSVOA_D

ClientSampleId :

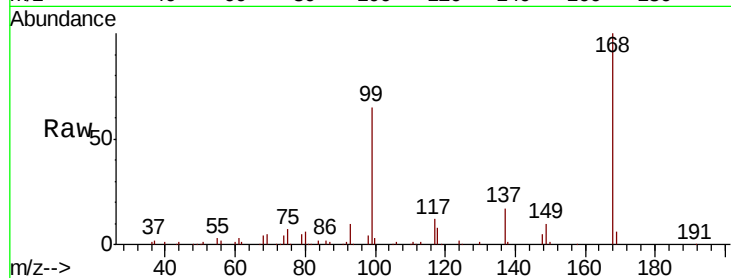
Tot Ion:117 Resp: 79082

Ion Ratio Lower Upper

117 100

119 4.3 73.5 110.3#

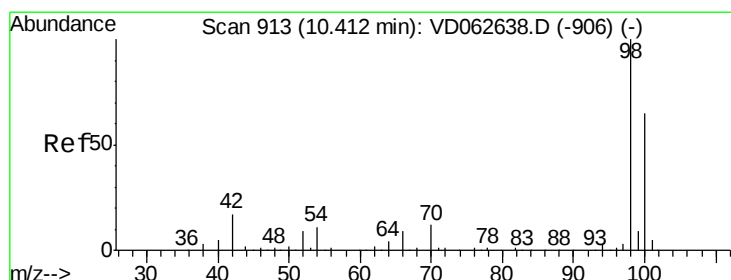
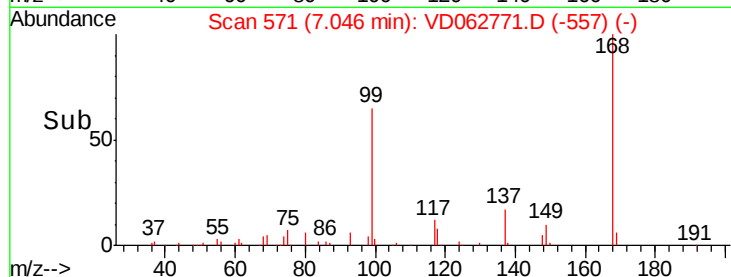
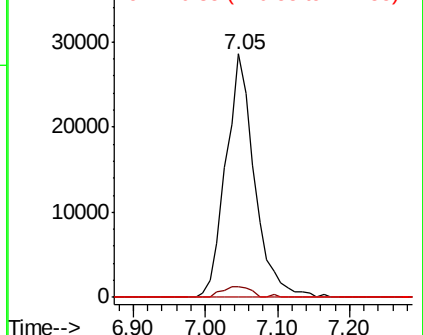
121 0.0 24.2 36.4#



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: 35.236 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.00 min

Lab File: VD062771.D

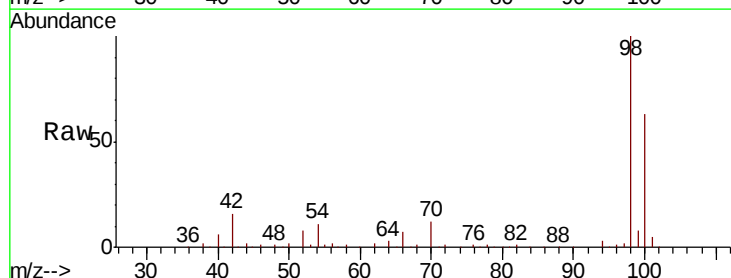
Acq: 19 Jun 2019 3:45

Tgt Ion: 98 Resp: 805633

Ion Ratio Lower Upper

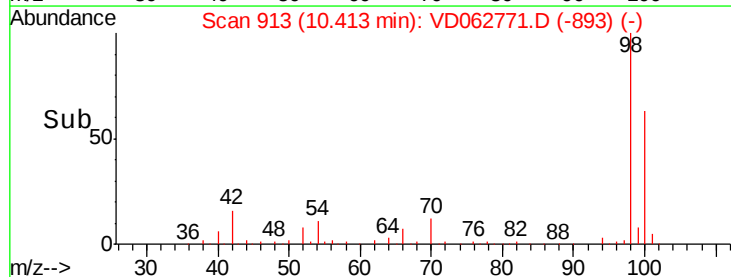
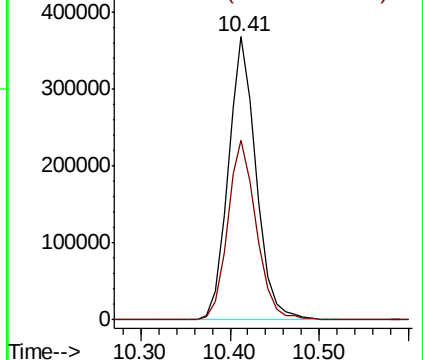
98 100

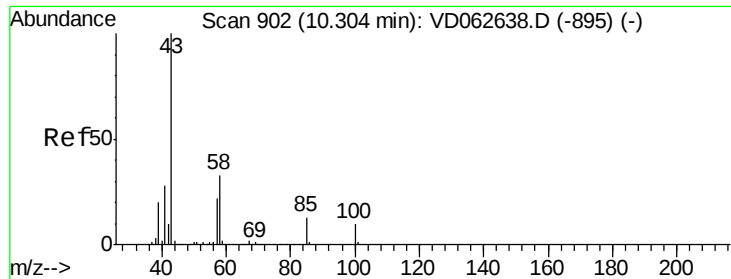
100 63.5 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

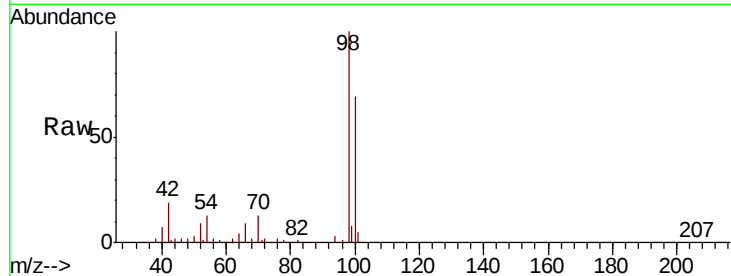




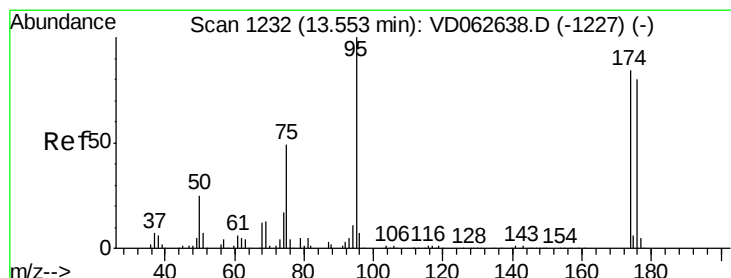
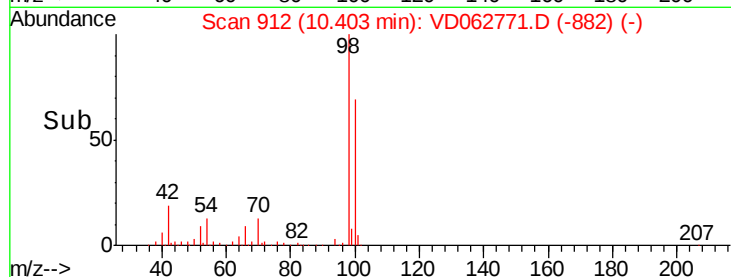
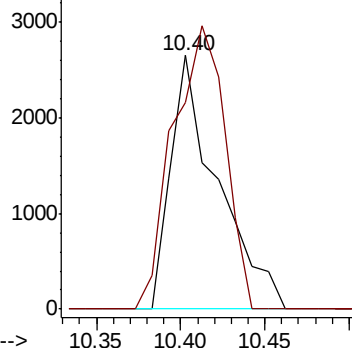
#51
4-Methyl-2-Pentanone
Concen: 1.173 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.10 min
Lab File: VD062771.D
Acq: 19 Jun 2019 3:45

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 5110
Ion Ratio Lower Upper
43 100
58 81.5 26.1 39.1#

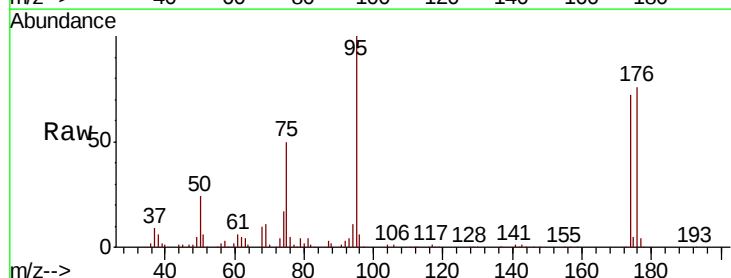


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

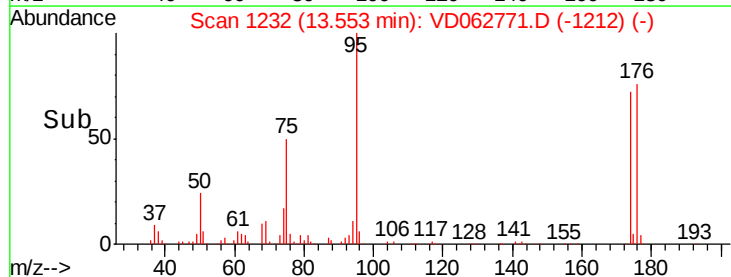
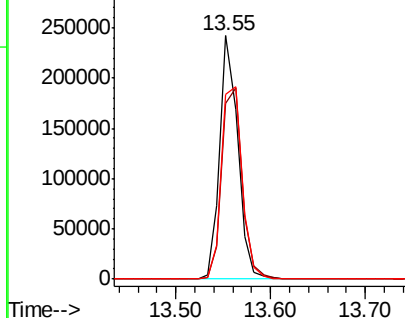


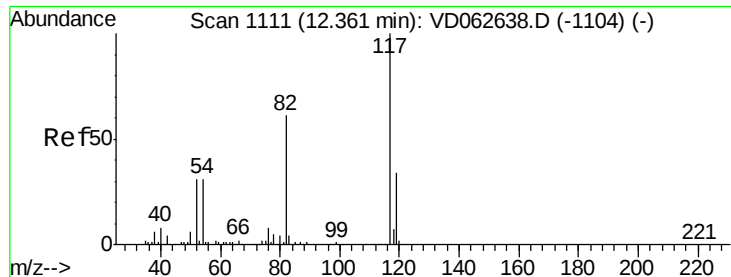
#62
4-Bromofluorobenzene
Concen: 30.228 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.00 min
Lab File: VD062771.D
Acq: 19 Jun 2019 3:45

Tgt Ion: 95 Resp: 322434
Ion Ratio Lower Upper
95 100
174 72.0 0.0 167.0
176 75.7 0.0 159.2



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

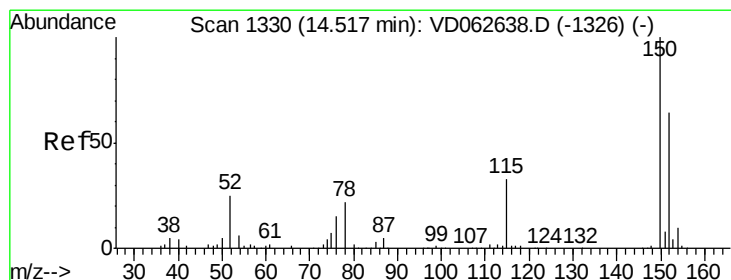
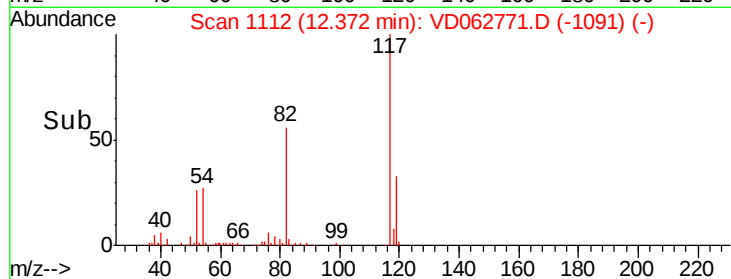
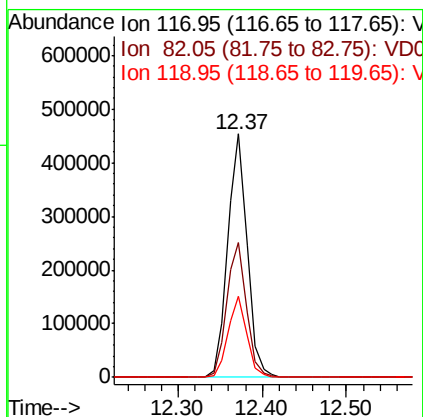
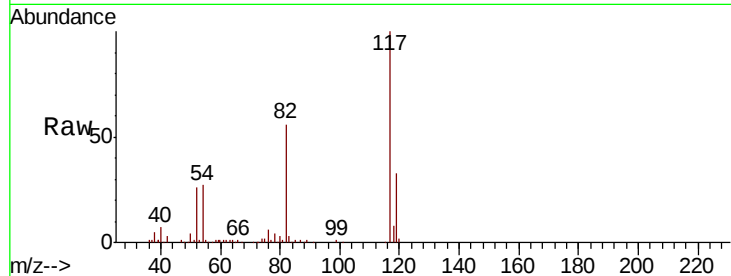




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062771.D
Acq: 19 Jun 2019 3:45

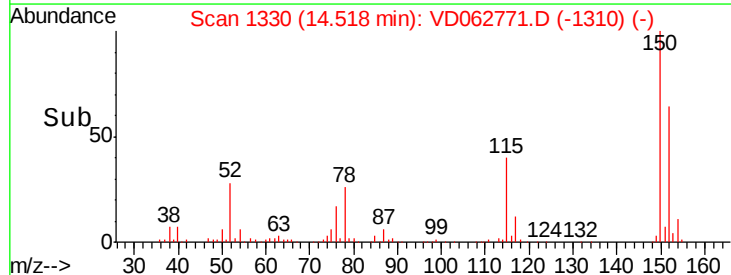
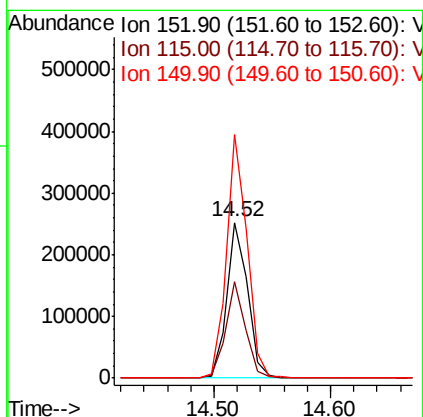
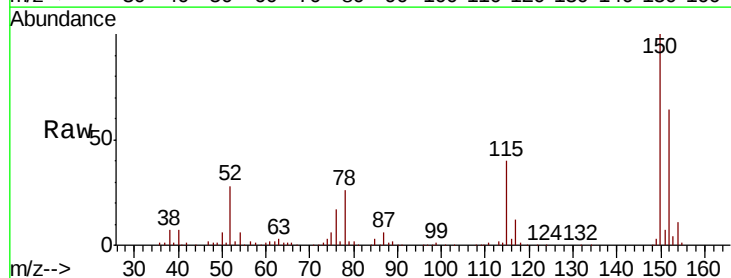
Instrument :
MSVOA_D
ClientSampleID :

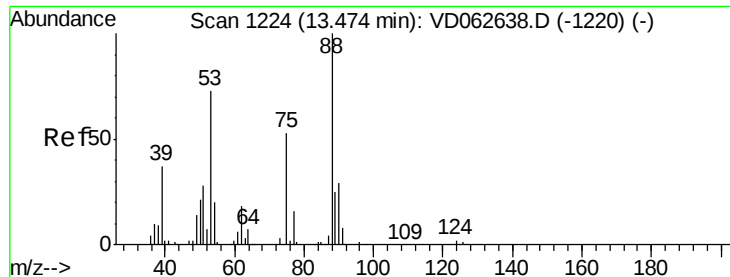
Tot Ion:117 Resp: 727236
Ion Ratio Lower Upper
117 100
82 55.5 48.7 73.1
119 33.4 27.0 40.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD062771.D
Acq: 19 Jun 2019 3:45

Tgt Ion:152 Resp: 311619
Ion Ratio Lower Upper
152 100
115 62.2 30.1 90.5
150 156.6 0.0 314.0





#81

trans-1,4-Dichloro-2-butene

Concen: 120.577 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062771.D

Acq: 19 Jun 2019 3:45

Instrument :

MSVOA_D

ClientSampleId :

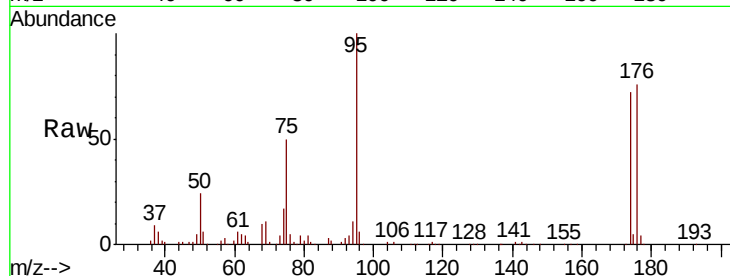
Tot Ion: 75 Resp: 158556

Ion Ratio Lower Upper

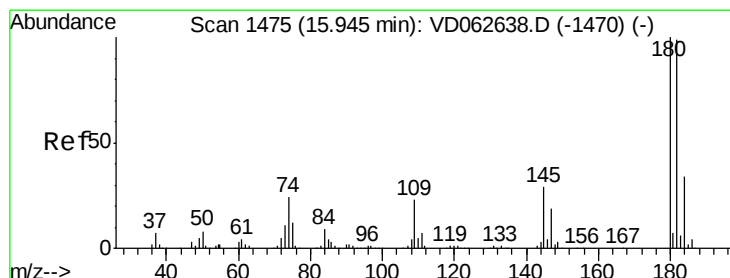
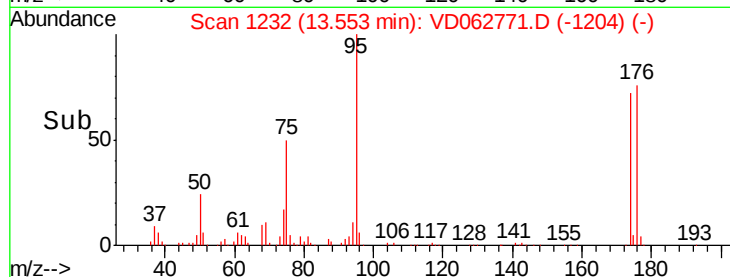
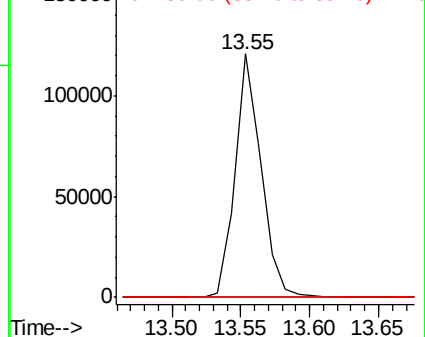
75 100

53 0.0 109.4 164.2#

89 0.0 37.0 55.6#



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



#93

1,2,4-Trichlorobenzene

Concen: 3.629 ug/l

RT: 15.95 min Scan# 1475

Delta R.T. 0.00 min

Lab File: VD062771.D

Acq: 19 Jun 2019 3:45

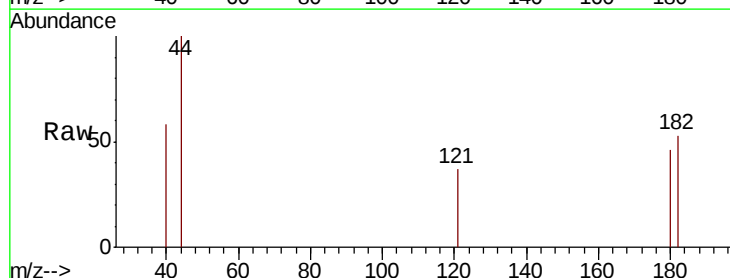
Tgt Ion: 180 Resp: 528

Ion Ratio Lower Upper

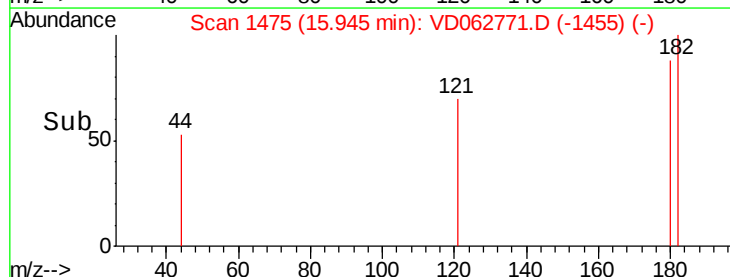
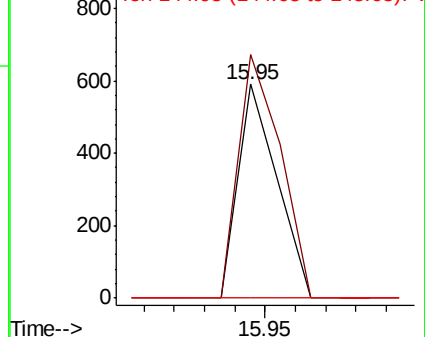
180 100

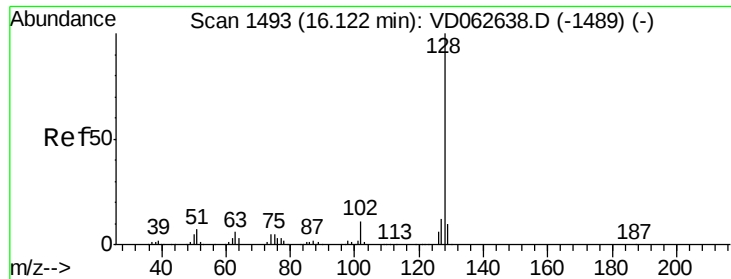
182 113.7 49.4 148.2

145 0.0 14.5 43.6#



Abundance Ion 179.85 (179.55 to 180.55): V
Ion 181.85 (181.55 to 182.55): V
Ion 144.95 (144.65 to 145.65): V





#95

Naphthalene

Concen: 3.603 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. 0.00 min

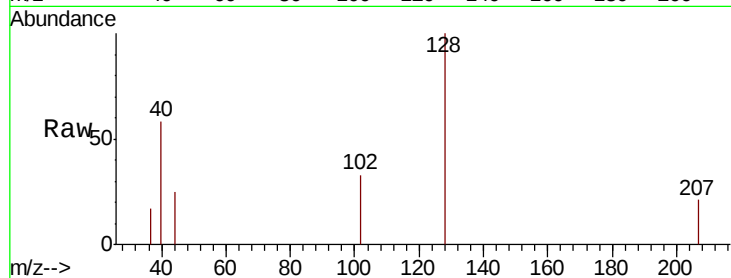
Lab File: VD062771.D

Acq: 19 Jun 2019 3:45

Instrument :

MSVOA_D

ClientSampleId :



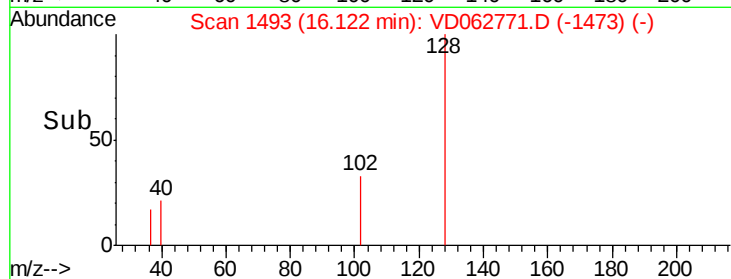
Tot Ion:128 Resp: 1870

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

129 0.0 8.1 12.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

