

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061319\
 Data File : VD062697.D
 Acq On : 13 Jun 2019 16:54
 Operator : VA/AP
 Sample : K3369-16
 Misc : 4.66µl/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 14 06:47:37 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	7.07	168	866301	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.24	114	1077670	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.38	117	916006	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	468972	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	350022	28.00	ug/l	0.02
Spiked Amount			Recovery	=	56.00%	
35) Dibromofluoromethane	6.94	113	374023	32.91	ug/l	0.02
Spiked Amount			Recovery	=	65.82%	
50) Toluene-d8	10.43	98	710304	29.71	ug/l	0.01
Spiked Amount			Recovery	=	59.42%	
62) 4-Bromofluorobenzene	13.57	95	356058	31.92	ug/l	0.01
Spiked Amount			Recovery	=	63.84%	

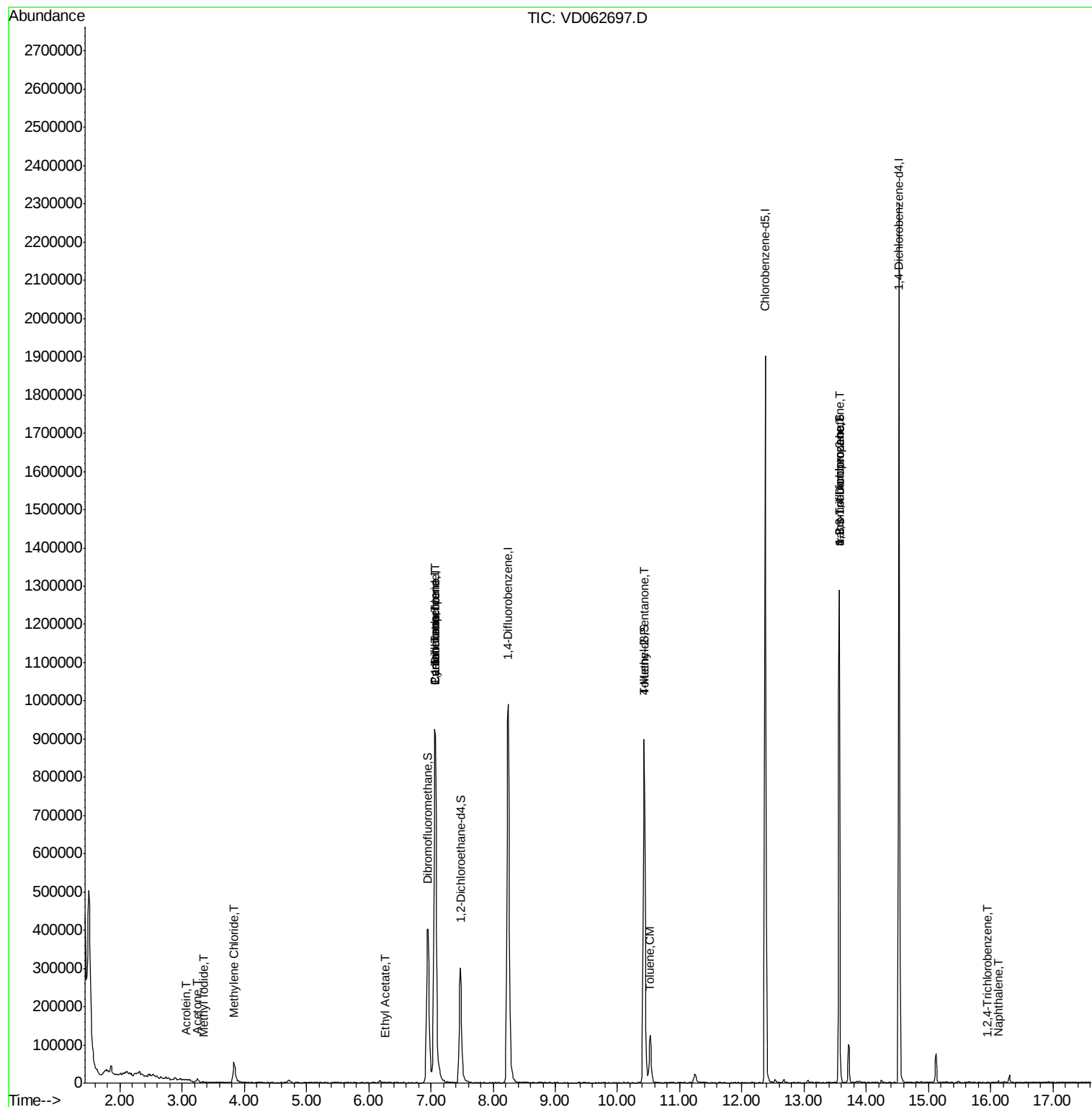
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	200	Below Cal	#	42
10) Methyl Iodide	3.33	142	225	4.022	ug/l #	24
13) Acrolein	3.05	56	187	1.131	ug/l #	70
16) Acetone	3.24	43	17182	7.506	ug/l #	91
20) Methylene Chloride	3.83	84	32447	3.340	ug/l #	92
31) Cyclohexane	7.07	56	22449	2.276	ug/l #	12
36) 1,1-Dichloropropene	7.06	75	72617	5.888	ug/l #	51
37) Ethyl Acetate	6.25	43	210	1.240	ug/l #	74
38) Carbon Tetrachloride	7.06	117	90312	4.633	ug/l #	16
51) 4-Methyl-2-Pentanone	10.44	43	5047	1.108	ug/l #	1
52) Toluene	10.53	92	56384	3.482	ug/l	90
76) 1,2,3-Trichloropropane	13.57	75	164363	25.848	ug/l #	43
81) trans-1,4-Dichloro-2-buten	13.57	75	179069	91.457	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.95	180	836	3.632	ug/l #	66
95) Naphthalene	16.13	128	2652	3.595	ug/l #	90

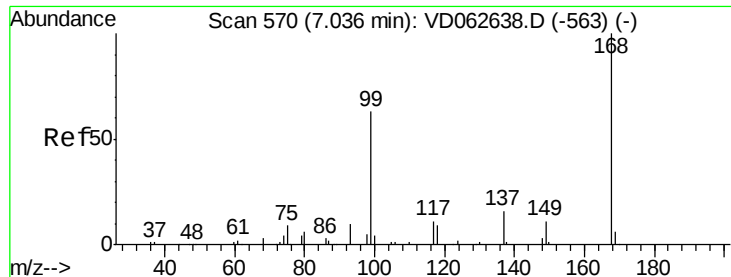
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.07 min Scan# 573

Delta R.T. 0.03 min

Lab File: VD062697.D

Acq: 13 Jun 2019 16:54

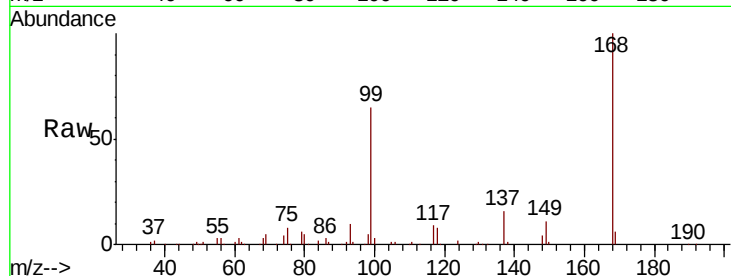
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 866301

Ion Ratio Lower Upper

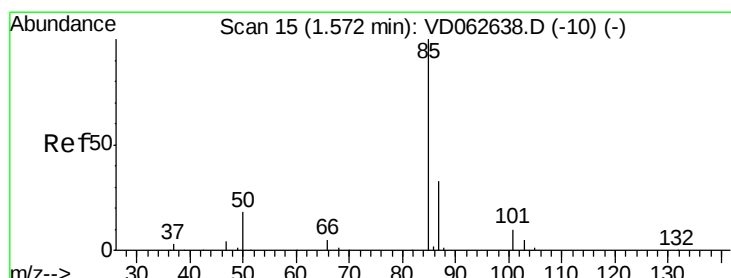
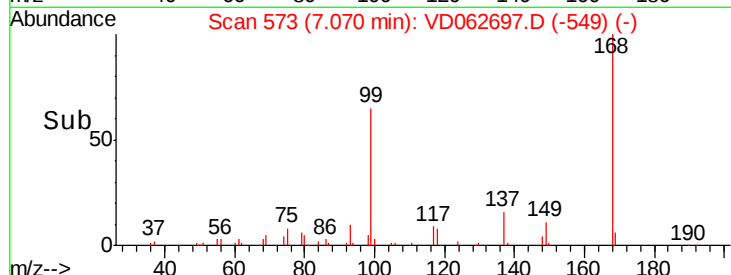
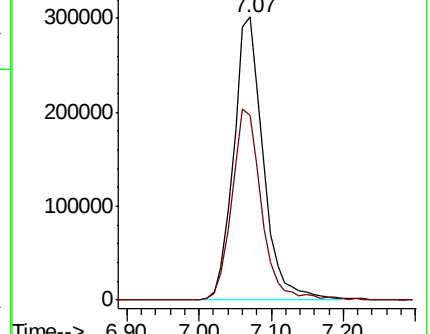
168 100

99 65.4 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 15

Delta R.T. 0.01 min

Lab File: VD062697.D

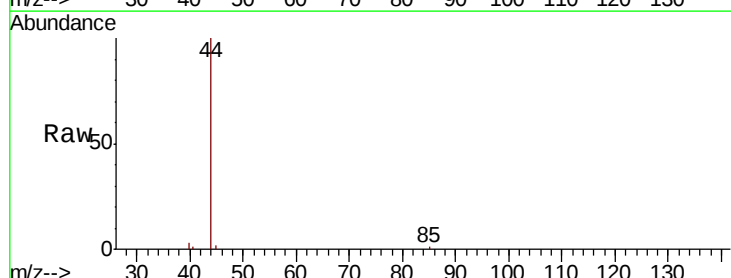
Acq: 13 Jun 2019 16:54

Tgt Ion: 85 Resp: 200

Ion Ratio Lower Upper

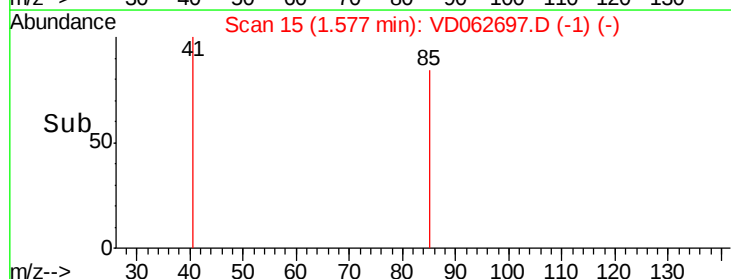
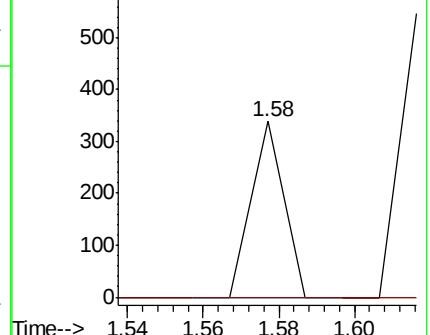
85 100

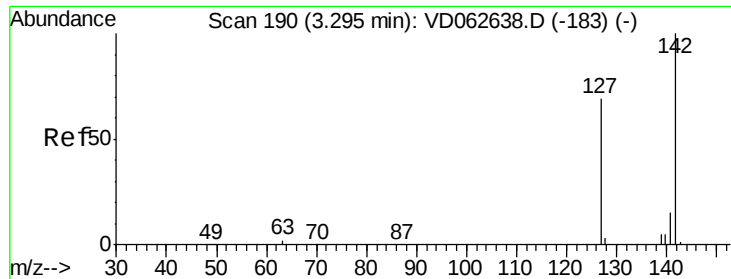
87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

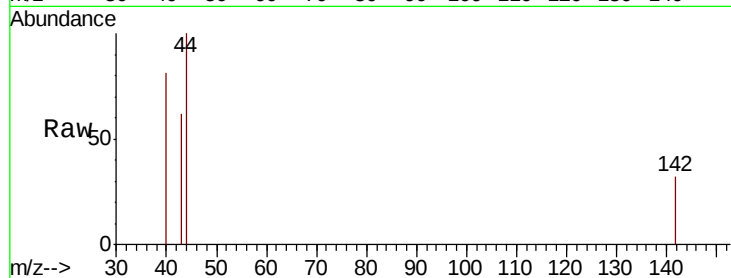




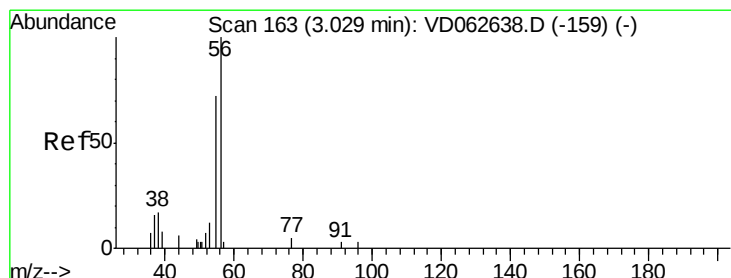
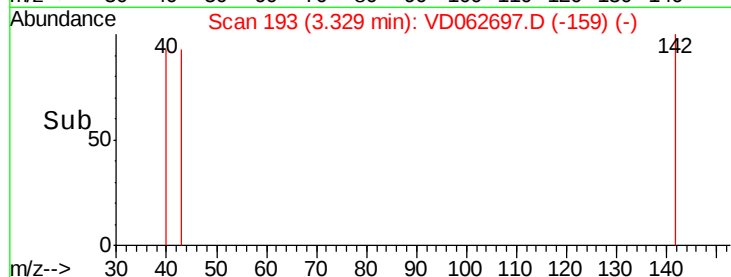
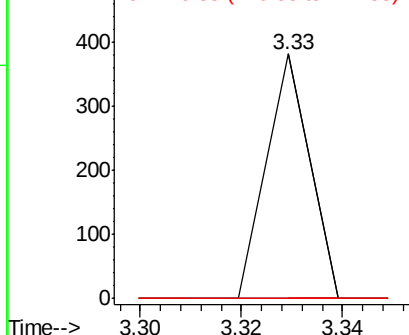
#10
Methvl Iodide
Concen: 4.022 ug/l
RT: 3.33 min Scan# 193
Delta R.T. 0.04 min
Lab File: VD062697.D
Acq: 13 Jun 2019 16:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:142 Resp: 225
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#

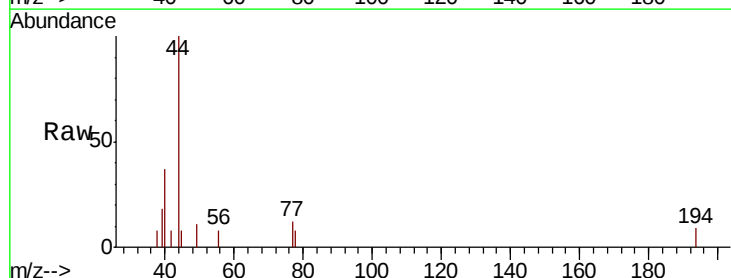


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

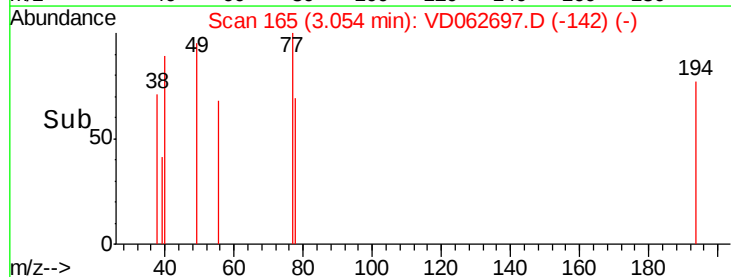
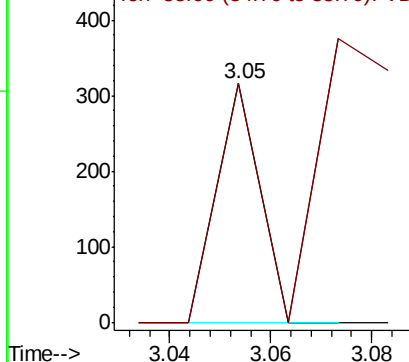


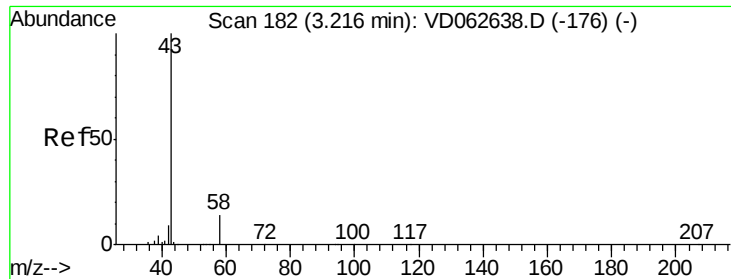
#13
Acrolein
Concen: 1.131 ug/l
RT: 3.05 min Scan# 165
Delta R.T. 0.02 min
Lab File: VD062697.D
Acq: 13 Jun 2019 16:54

Tgt Ion: 56 Resp: 187
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: 7.506 ug/l

RT: 3.24 min Scan# 184

Delta R.T. 0.02 min

Lab File: VD062697.D

Acq: 13 Jun 2019 16:54

Instrument :

MSVOA_D

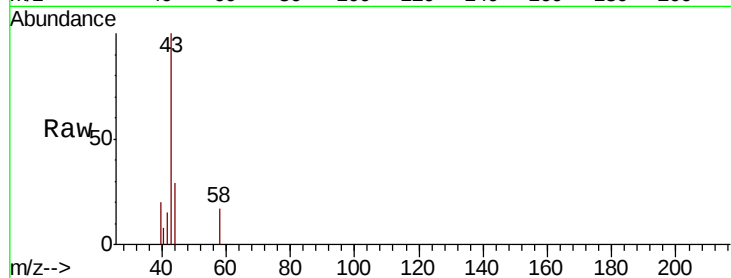
ClientSampleId :

Tot Ion: 43 Resp: 17182

Ion Ratio Lower Upper

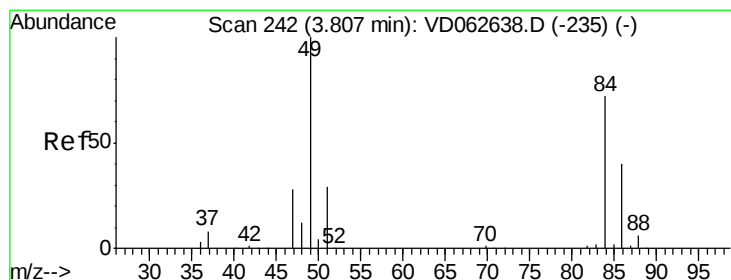
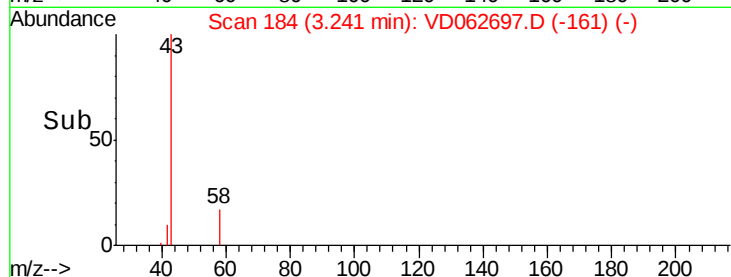
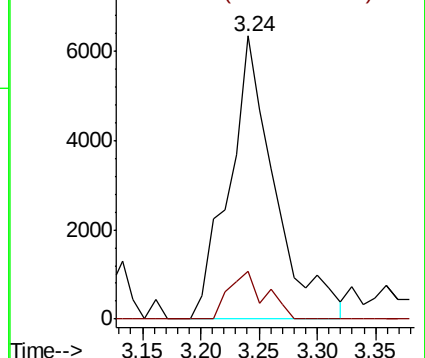
43 100

58 17.1 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 3.340 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.03 min

Lab File: VD062697.D

Acq: 13 Jun 2019 16:54

Tgt Ion: 84 Resp: 32447

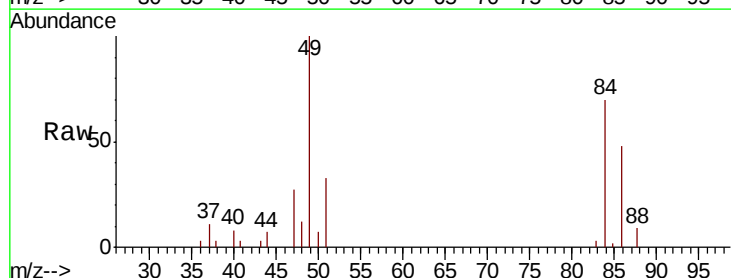
Ion Ratio Lower Upper

84 100

49 142.8 111.2 166.8

51 46.5 31.9 47.9

86 68.1 44.7 67.1#

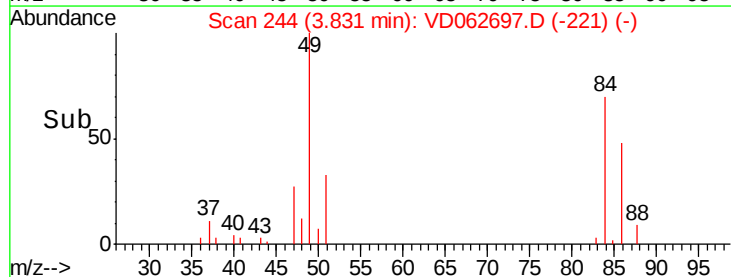
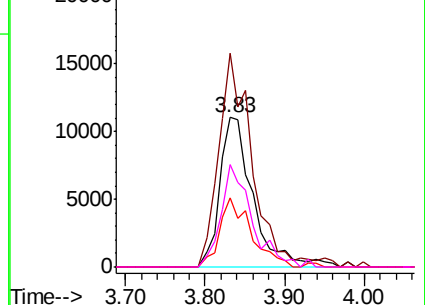


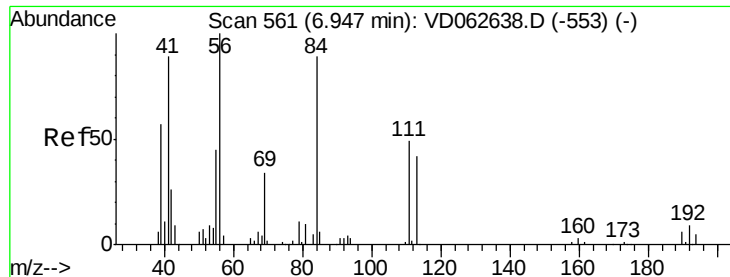
Abundance Ion 83.95 (83.65 to 84.65): VDC

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

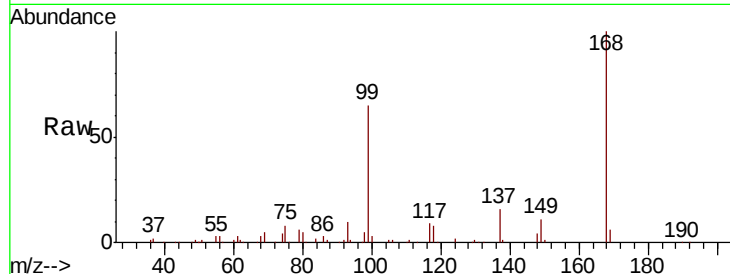




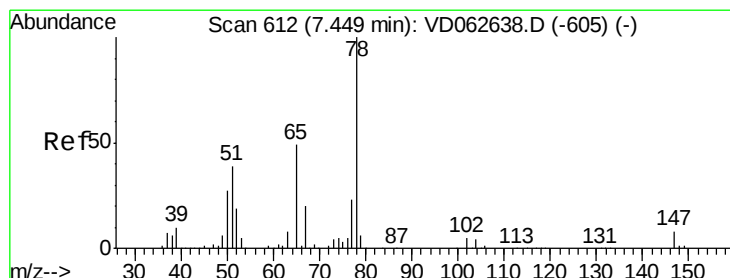
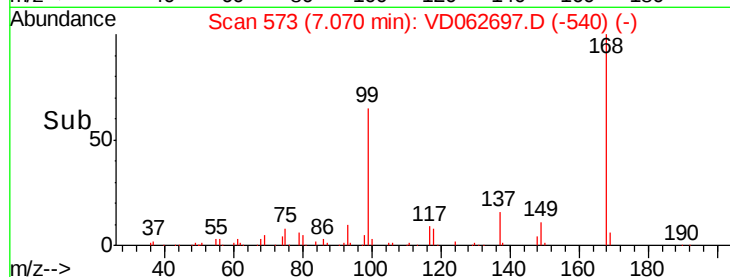
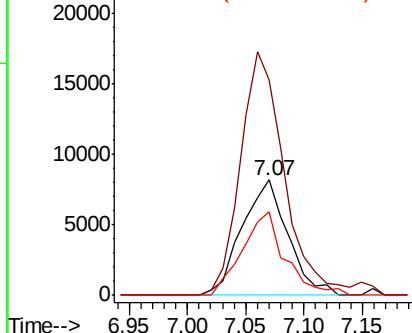
#31
Cyclohexane
Concen: 2.276 ug/l
RT: 7.07 min Scan# 573
Delta R.T. 0.12 min
Lab File: VD062697.D
Acq: 13 Jun 2019 16:54

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 56 Resp: 22449
Ion Ratio Lower Upper
56 100
69 187.1 26.8 40.2#
84 71.9 73.9 110.9#

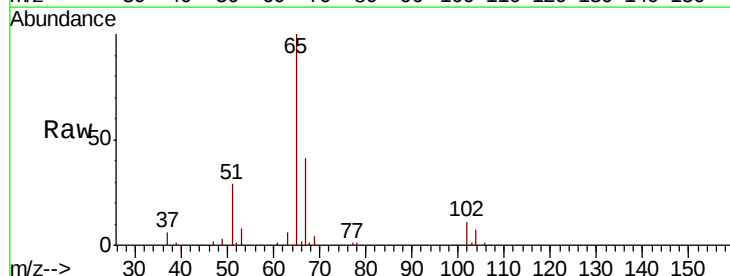


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

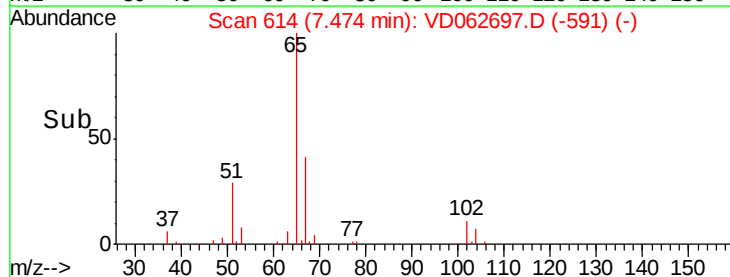
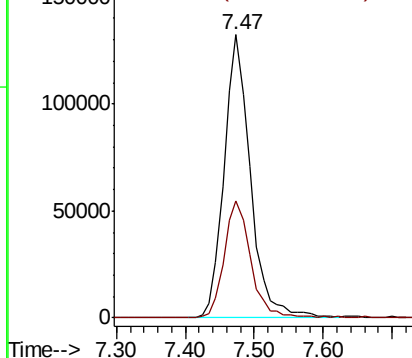


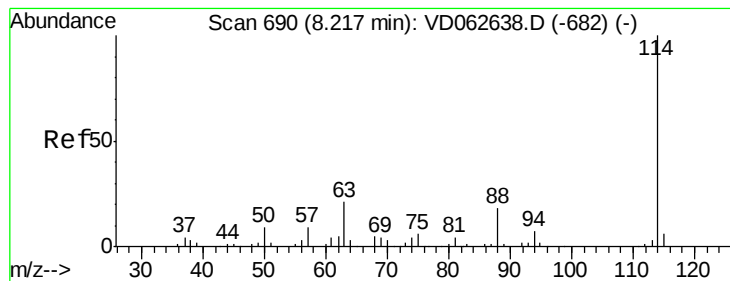
#33
1,2-Dichloroethane-d4
Concen: 28.000 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.02 min
Lab File: VD062697.D
Acq: 13 Jun 2019 16:54

Tgt Ion: 65 Resp: 350022
Ion Ratio Lower Upper
65 100
67 41.1 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: 8.24 min Scan# 692

Delta R.T. 0.02 min

Lab File: VD062697.D

Acq: 13 Jun 2019 16:54

Instrument :

MSVOA_D

ClientSampled :

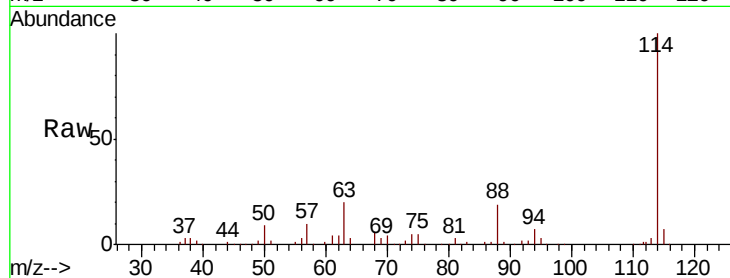
Tot Ion:114 Resp: 1077670

Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.4

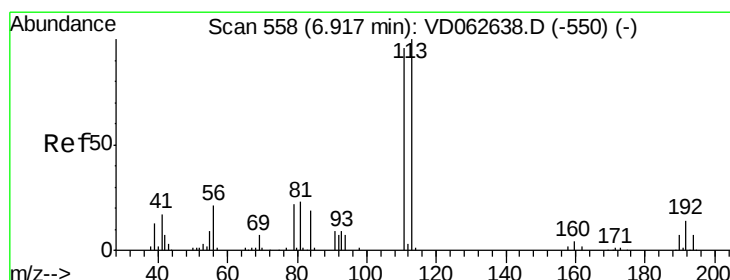
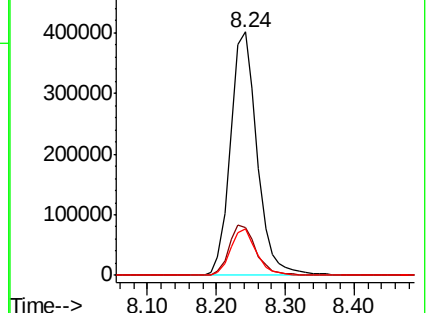
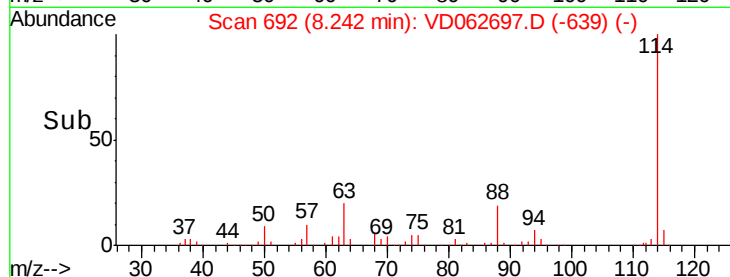
88 18.9 0.0 36.8



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: 32.909 ug/l

RT: 6.94 min Scan# 560

Delta R.T. 0.02 min

Lab File: VD062697.D

Acq: 13 Jun 2019 16:54

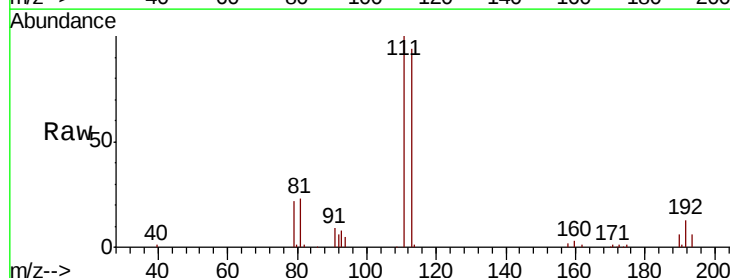
Tgt Ion:113 Resp: 374023

Ion Ratio Lower Upper

113 100

111 106.1 76.4 114.6

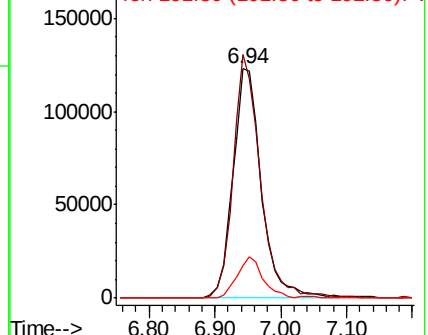
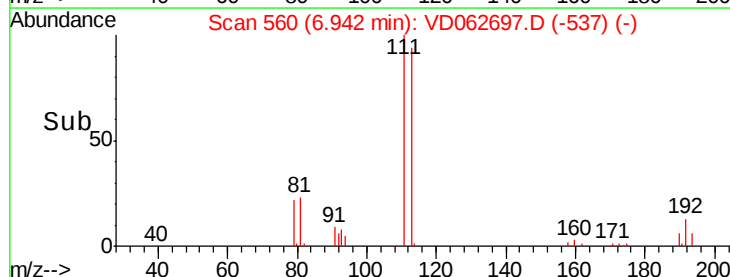
192 13.9 11.4 17.0

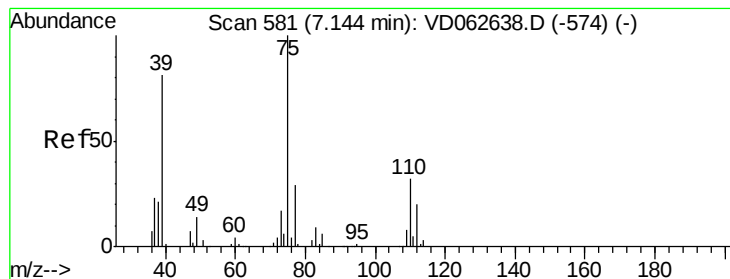


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.888 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.08 min

Lab File: VD062697.D

Acq: 13 Jun 2019 16:54

Instrument :
MSVOA_D
ClientSampleId :

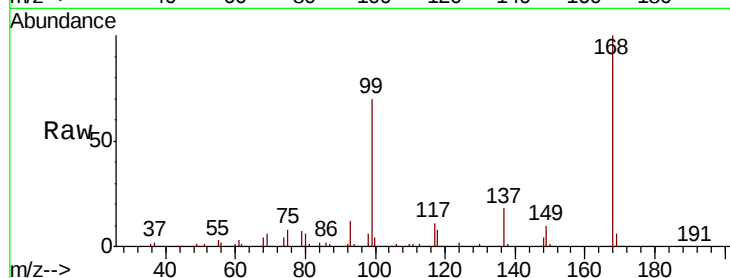
Tot Ion: 75 Resp: 72617

Ion Ratio Lower Upper

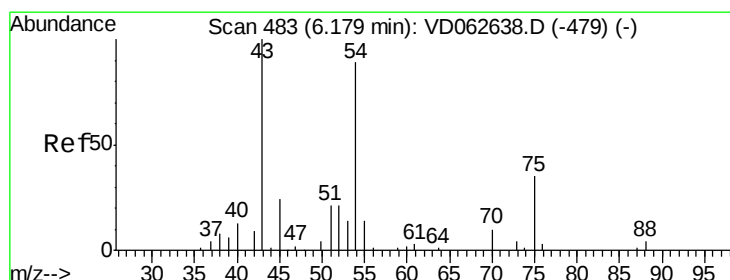
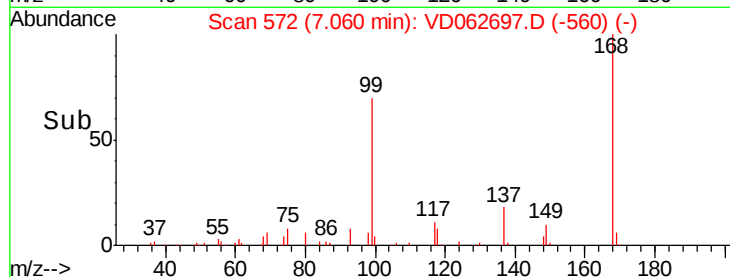
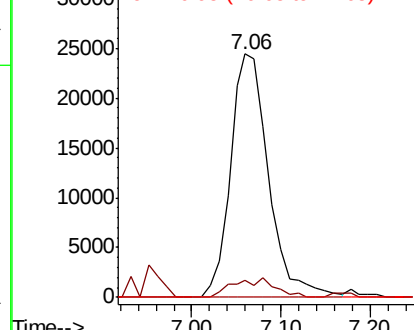
75 100

110 7.2 15.9 47.7#

77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): VDC
Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.240 ug/l

RT: 6.25 min Scan# 490

Delta R.T. 0.07 min

Lab File: VD062697.D

Acq: 13 Jun 2019 16:54

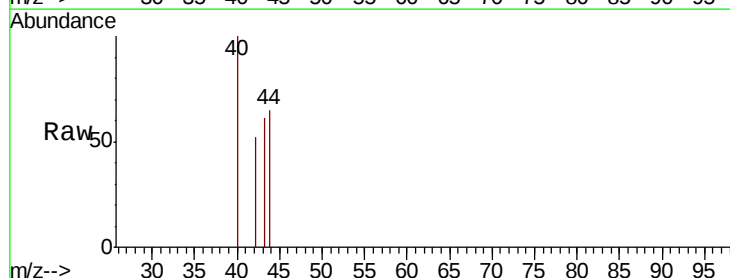
Tgt Ion: 43 Resp: 210

Ion Ratio Lower Upper

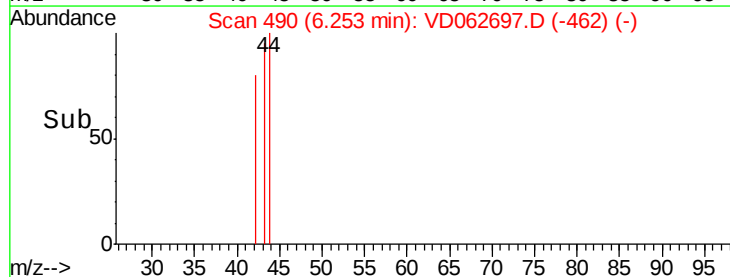
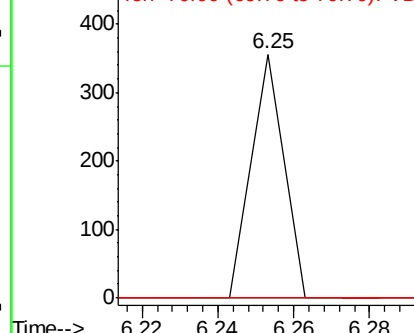
43 100

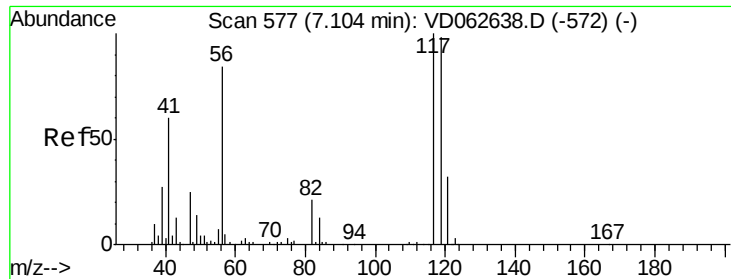
61 0.0 8.7 13.1#

70 0.0 6.5 9.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

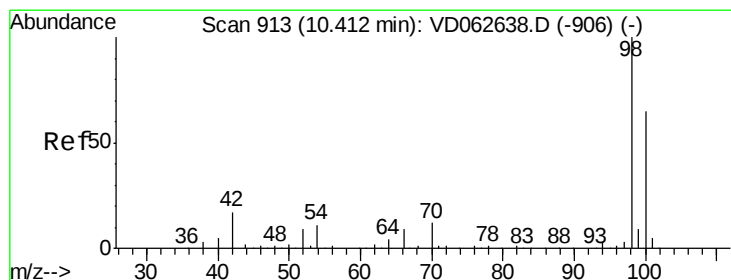
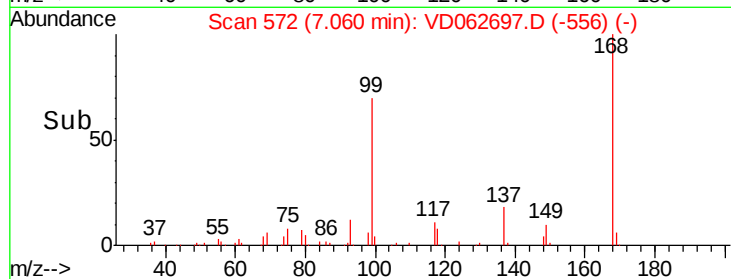
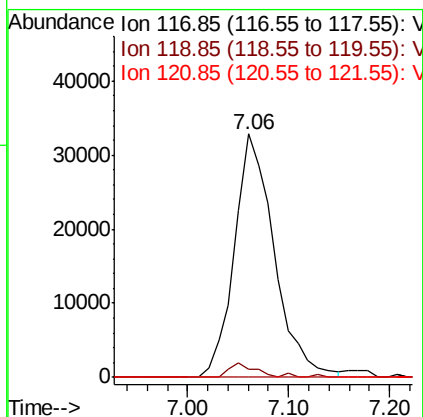
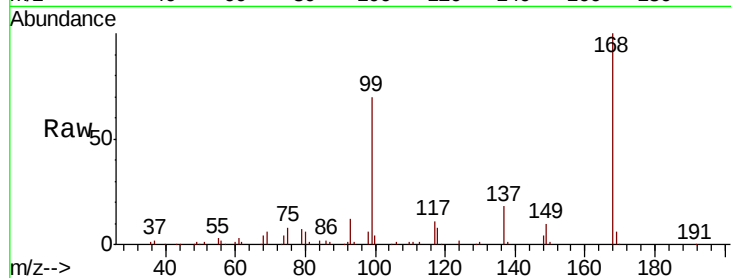




#38
Carbon Tetrachloride
Concen: 4.633 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.04 min
Lab File: VD062697.D
Acq: 13 Jun 2019 16:54

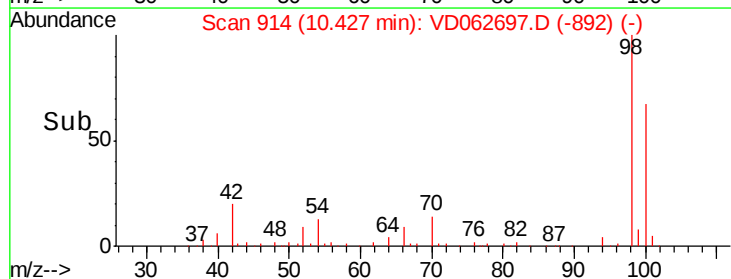
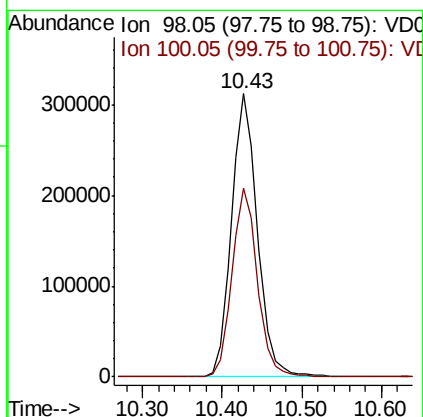
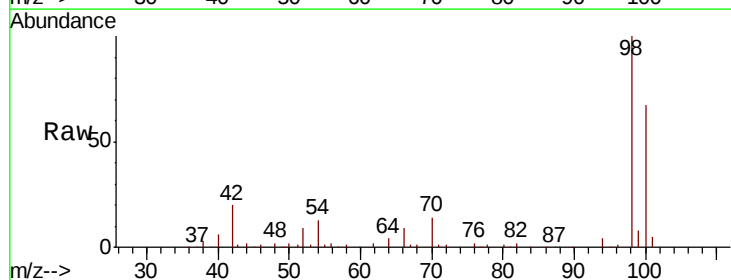
Instrument :
MSVOA_D
ClientSampleId :

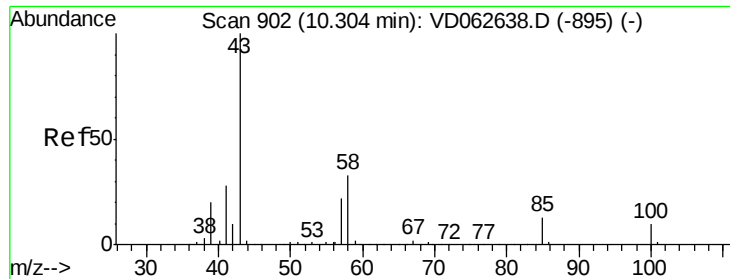
Tot Ion:117 Resp: 90312
Ion Ratio Lower Upper
117 100
119 3.5 73.5 110.3#
121 0.0 24.2 36.4#



#50
Toluene-d8
Concen: 29.709 ug/l
RT: 10.43 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD062697.D
Acq: 13 Jun 2019 16:54

Tgt Ion: 98 Resp: 710304
Ion Ratio Lower Upper
98 100
100 66.8 52.1 78.1

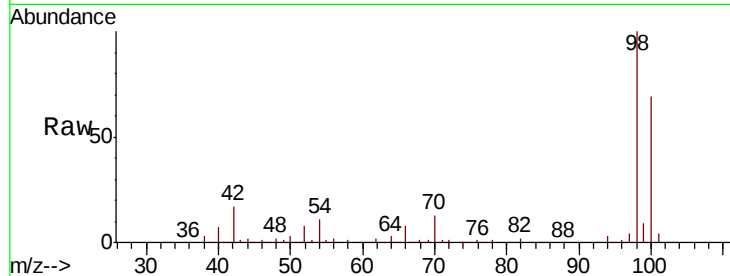




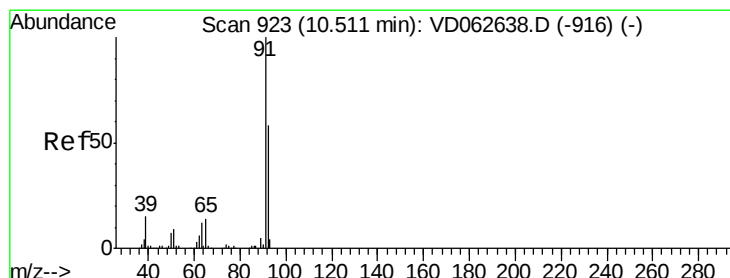
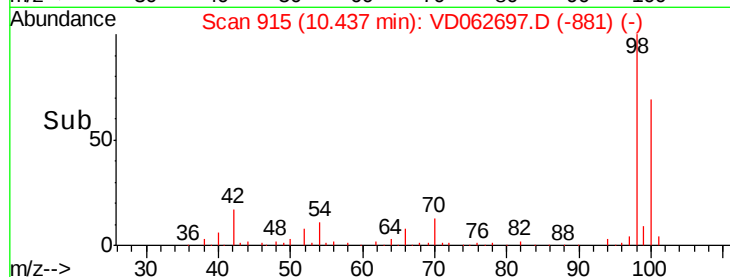
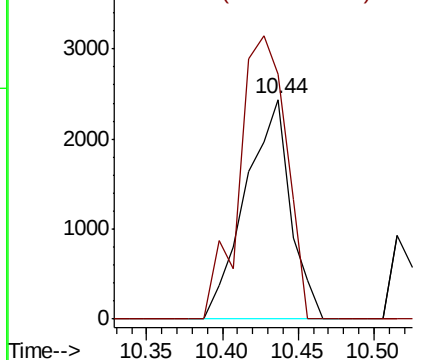
#51
 4-Methyl-2-Pentanone
 Concen: 1.108 ug/l
 RT: 10.44 min Scan# 915
 Delta R.T. 0.13 min
 Lab File: VD062697.D
 Acq: 13 Jun 2019 16:54

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 43 Resp: 5047
 Ion Ratio Lower Upper
 43 100
 58 111.3 26.1 39.1#

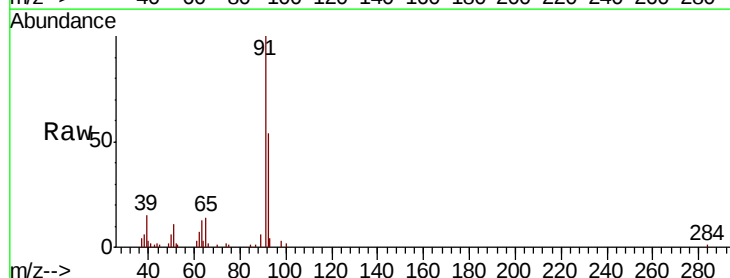


Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 57.95 (57.65 to 58.65): VDC

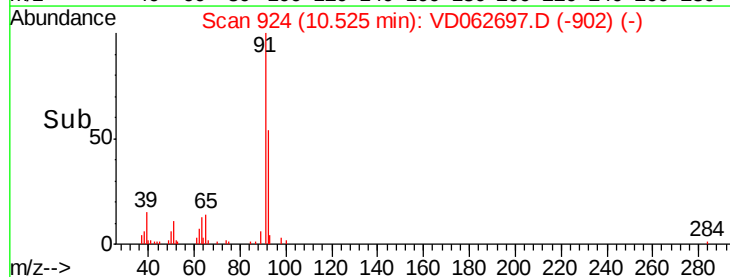
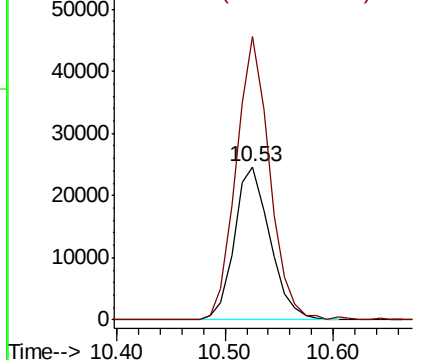


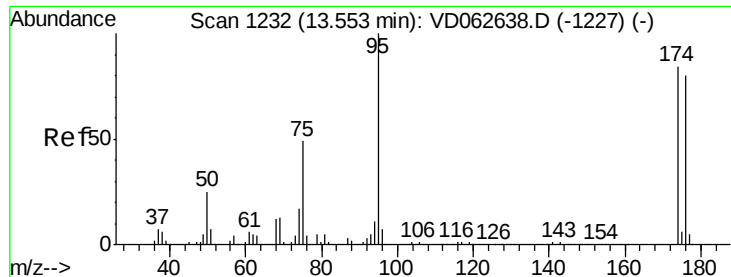
#52
 Toluene
 Concen: 3.482 ug/l
 RT: 10.53 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VD062697.D
 Acq: 13 Jun 2019 16:54

Tgt Ion: 92 Resp: 56384
 Ion Ratio Lower Upper
 92 100
 91 185.2 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VDC
 Ion 91.00 (90.70 to 91.70): VDC

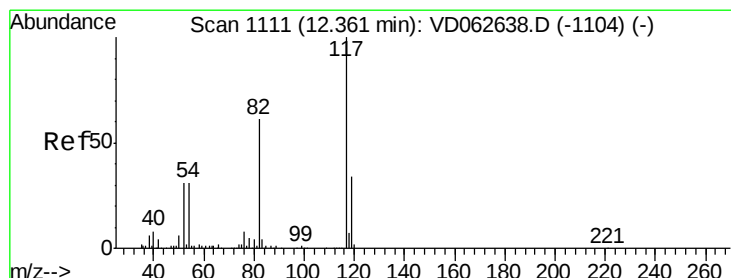
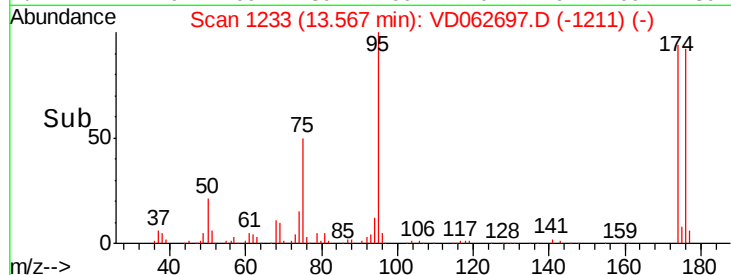
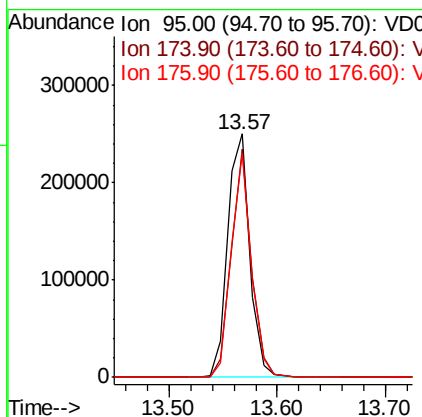
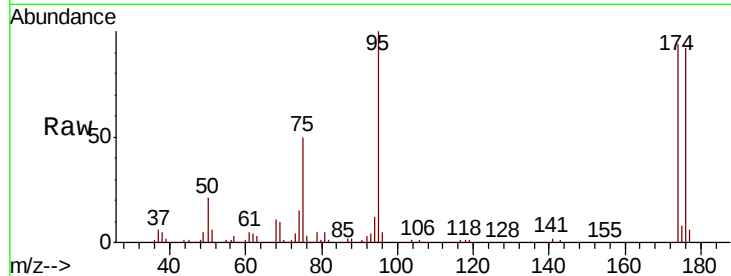




#62
4-Bromofluorobenzene
Concen: 31.921 ug/l
RT: 13.57 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD062697.D
Acq: 13 Jun 2019 16:54

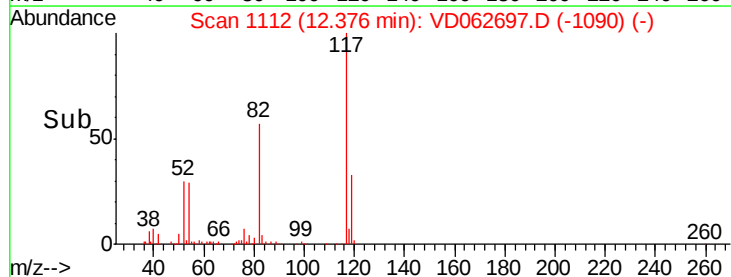
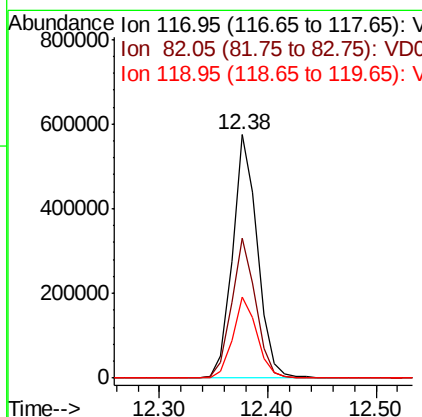
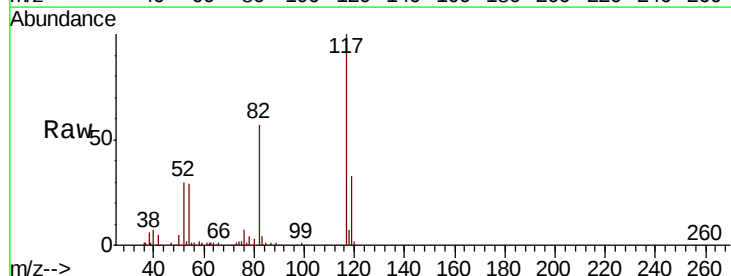
Instrument :
MSVOA_D
ClientSampleId :

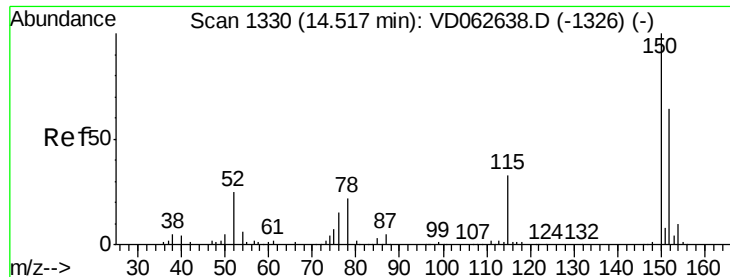
Tot Ion: 95 Resp: 356058
Ion Ratio Lower Upper
95 100
174 93.9 0.0 167.0
176 92.4 0.0 159.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062697.D
Acq: 13 Jun 2019 16:54

Tgt Ion: 117 Resp: 916006
Ion Ratio Lower Upper
117 100
82 57.4 48.7 73.1
119 33.3 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: VD062697.D

Acq: 13 Jun 2019 16:54

Instrument :

MSVOA_D

ClientSampleId :

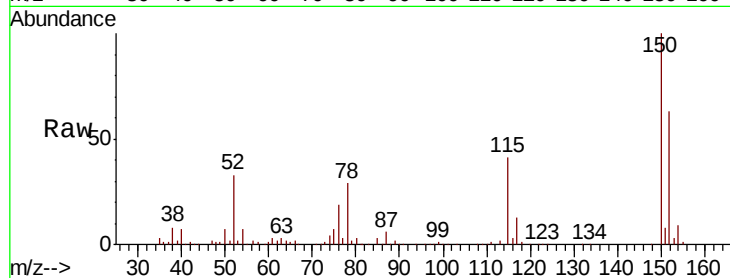
Tot Ion:152 Resp: 468972

Ion Ratio Lower Upper

152 100

115 65.2 30.1 90.5

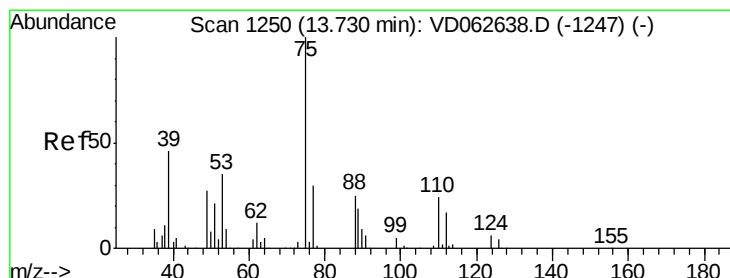
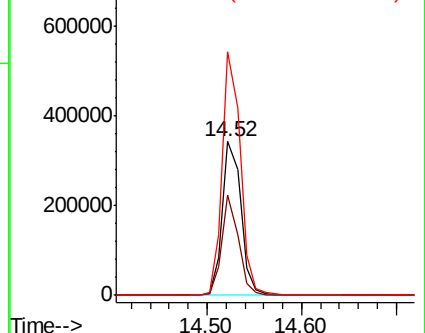
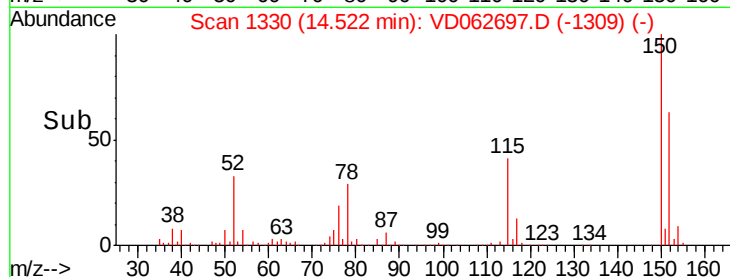
150 158.4 0.0 314.0



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: 25.848 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD062697.D

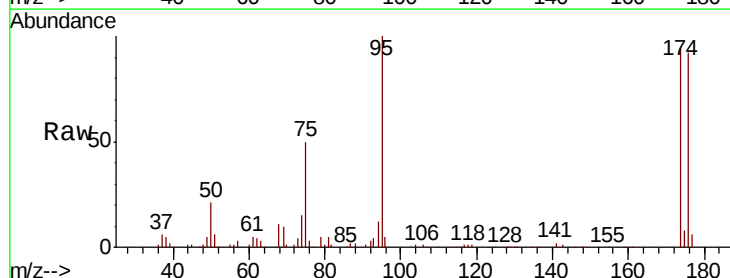
Acq: 13 Jun 2019 16:54

Tgt Ion: 75 Resp: 164363

Ion Ratio Lower Upper

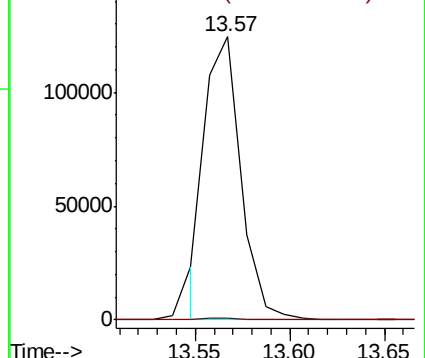
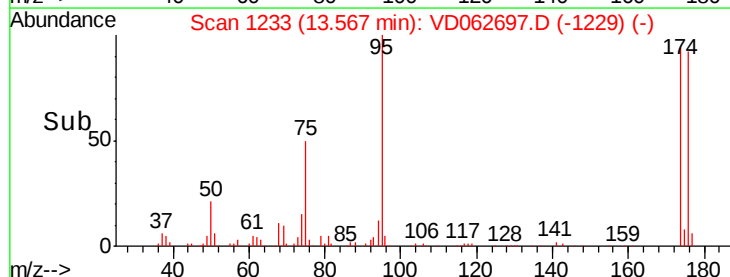
75 100

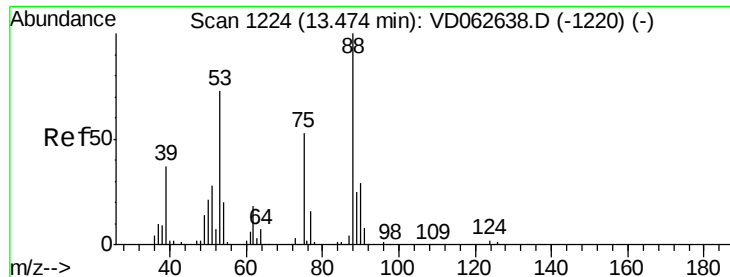
77 0.6 16.2 48.6#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 91.457 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062697.D

Acq: 13 Jun 2019 16:54

Instrument :

MSVOA_D

ClientSampleId :

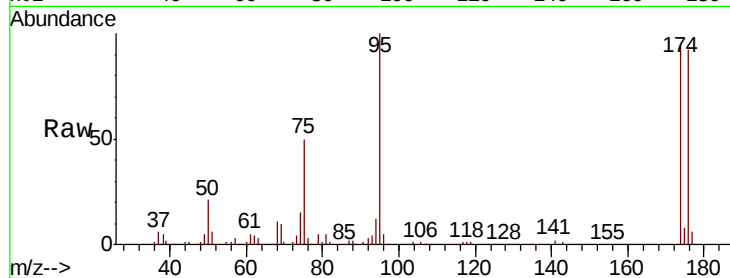
Tot Ion: 75 Resp: 179069

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

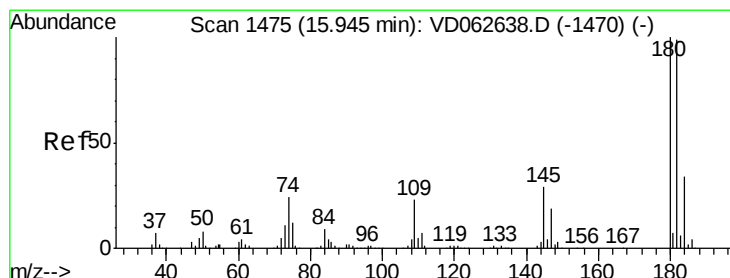
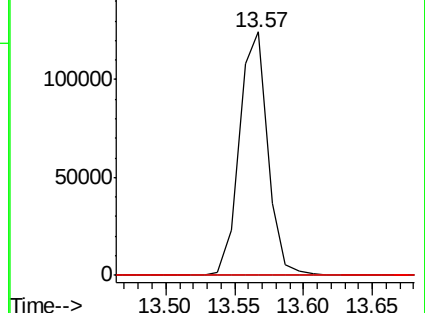
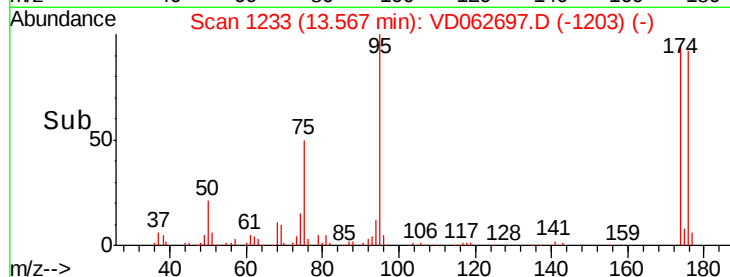
89 0.0 37.0 55.6#



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: 3.632 ug/l

RT: 15.95 min Scan# 1475

Delta R.T. 0.01 min

Lab File: VD062697.D

Acq: 13 Jun 2019 16:54

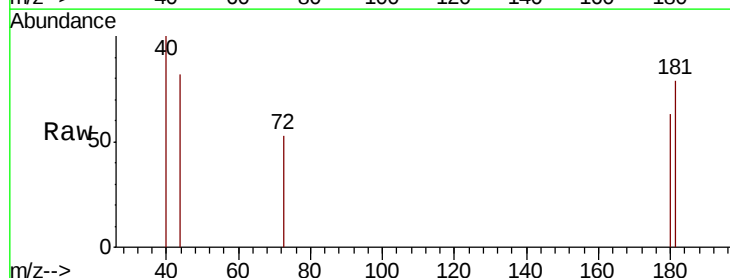
Tgt Ion:180 Resp: 836

Ion Ratio Lower Upper

180 100

182 127.0 49.4 148.2

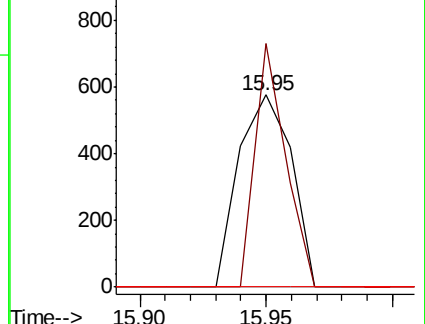
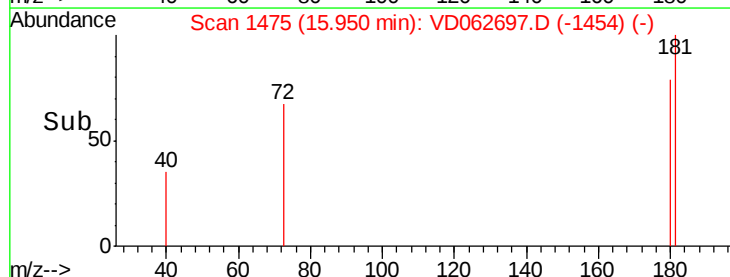
145 0.0 14.5 43.6#

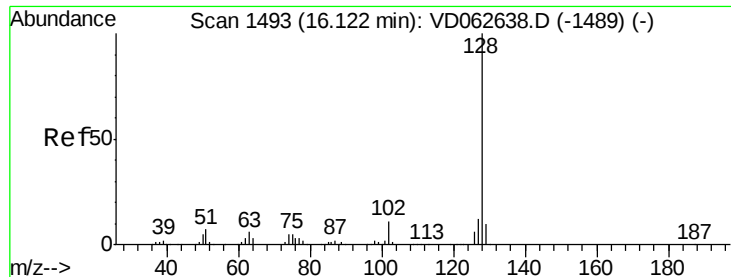


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

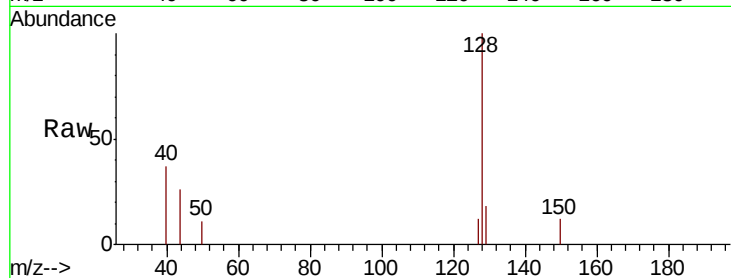




#95
Naphthalene
Concen: 3.595 ug/l
RT: 16.13 min Scan# 1493
Delta R.T. 0.01 min
Lab File: VD062697.D
Acq: 13 Jun 2019 16:54

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 2652
Ion Ratio Lower Upper
128 100
127 11.9 9.7 14.5
129 17.8 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

