

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062775.D
 Acq On : 19 Jun 2019 5:34
 Operator : VA/AP
 Sample : K3157-09
 Misc : 6.42g/5ml/MSVOA D/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 07:06:06 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	531325	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	767050	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	465478	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	154834	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	387953	50.60	ug/l	0.00
Spiked Amount			Recovery	=	101.20%	
35) Dibromofluoromethane	6.93	113	349684	43.23	ug/l	0.00
Spiked Amount			Recovery	=	86.46%	
50) Toluene-d8	10.41	98	459917	27.03	ug/l	0.00
Spiked Amount			Recovery	=	54.06%	
62) 4-Bromofluorobenzene	13.55	95	181702	22.89	ug/l	0.00
Spiked Amount			Recovery	=	45.78%	

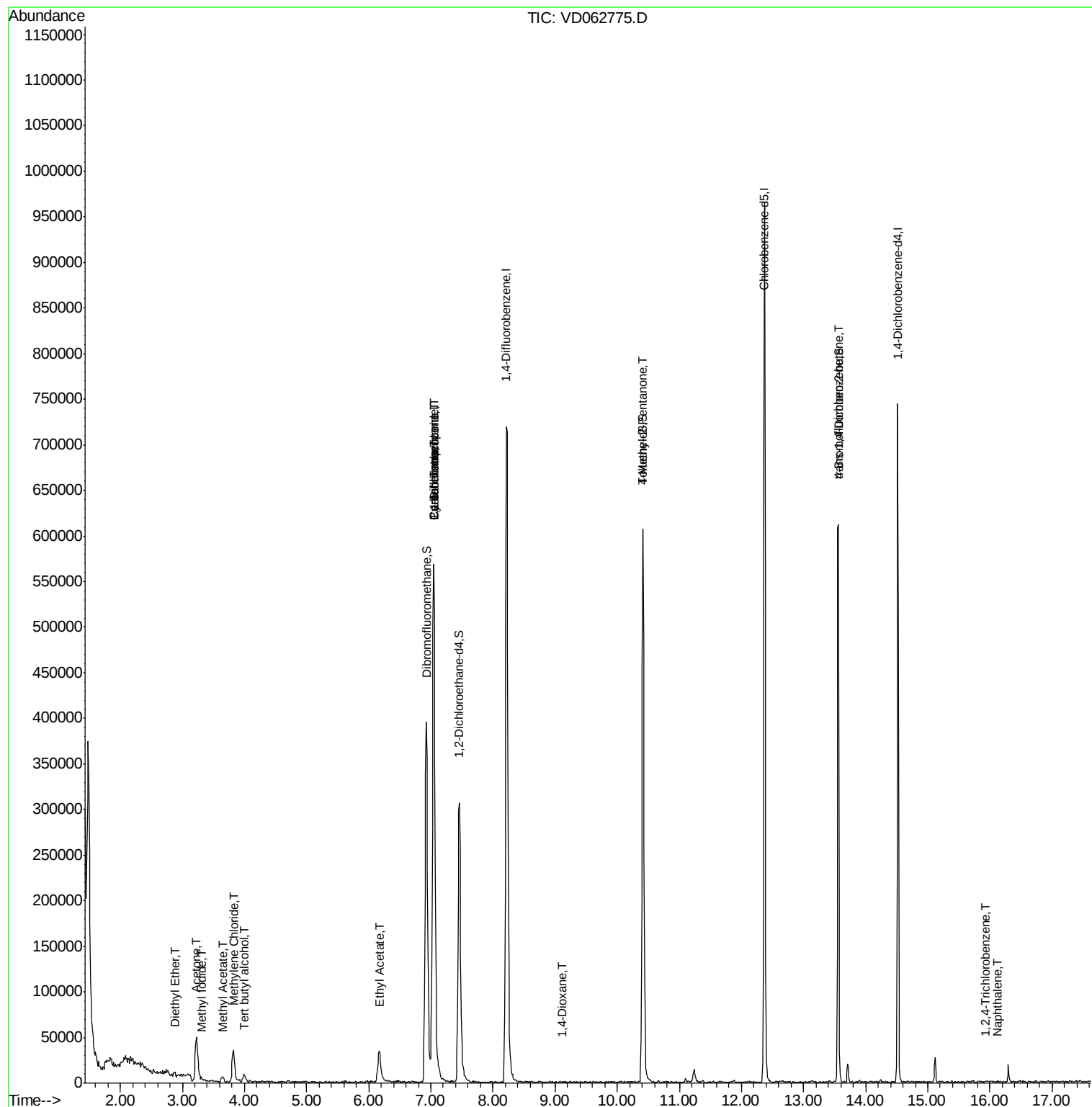
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	600	Below Cal	#	42
8) Diethyl Ether	2.88	74	1780	1.079	ug/l	78
10) Methyl Iodide	3.30	142	402	4.048	ug/l #	24
11) Tert butyl alcohol	3.99	59	6189	19.638	ug/l	94
16) Acetone	3.23	43	109328	77.872	ug/l	97
18) Methyl Acetate	3.66	43	10504	4.553	ug/l #	89
20) Methylene Chloride	3.83	84	22335	3.803	ug/l #	92
31) Cyclohexane	7.05	56	13291	2.197	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	44345	5.051	ug/l #	53
37) Ethyl Acetate	6.17	43	2727	1.912	ug/l #	38
38) Carbon Tetrachloride	7.05	117	56121	4.045	ug/l #	18
49) 1,4-Dioxane	9.11	88	205	53.791	ug/l #	21
51) 4-Methyl-2-Pentanone	10.41	43	3585	1.106	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.55	75	95928	145.972	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	559	3.698	ug/l #	68
95) Naphthalene	16.12	128	799	3.582	ug/l #	71

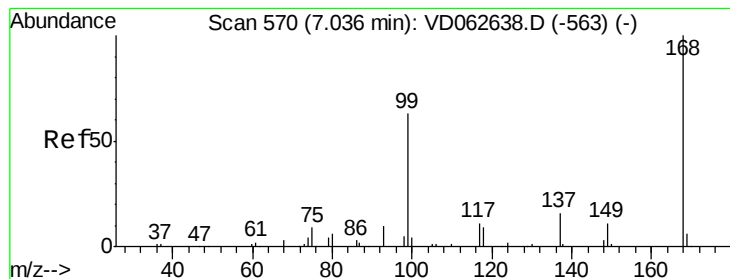
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061819\
Data File : VD062775.D
Acq On : 19 Jun 2019 5:34
Operator : VA/AP
Sample : K3157-09
Misc : 6.42g/5ml/MSVOA D/SOIL
ALS Vial : 41 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

Quant Time: Jun 19 07:06:06 2019
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: 7.05 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

Instrument :

MSVOA_D

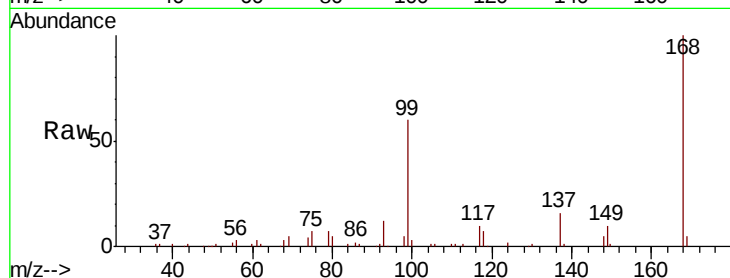
ClientSampleId :

Tot Ion:168 Resp: 531325

Ion Ratio Lower Upper

168 100

99 59.5 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

200000

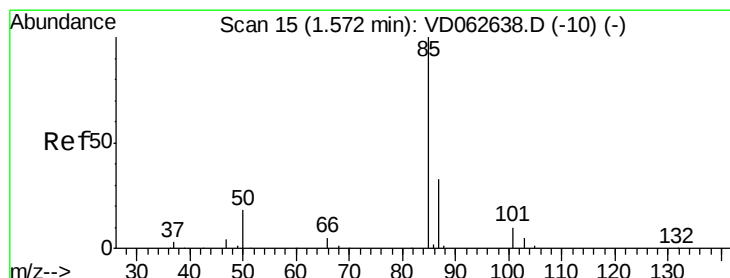
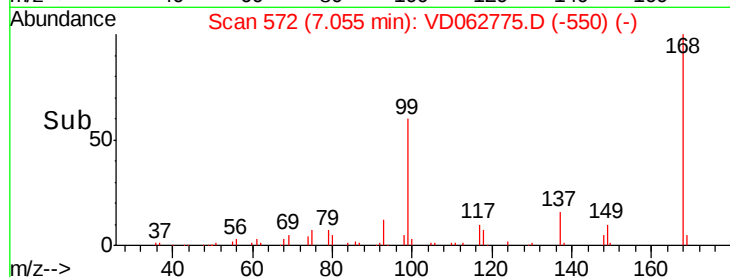
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.57 min Scan# 15

Delta R.T. 0.00 min

Lab File: VD062775.D

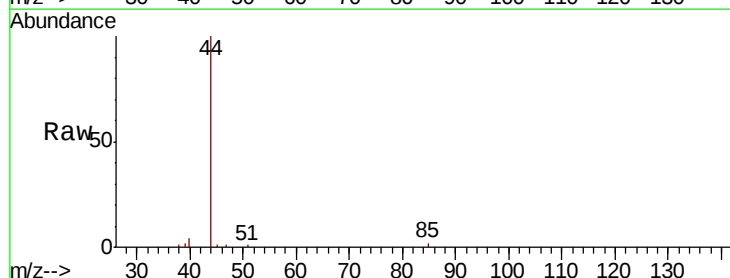
Acq: 19 Jun 2019 5:34

Tgt Ion: 85 Resp: 600

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

1.57

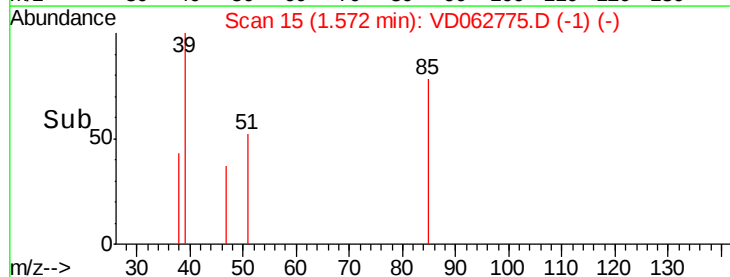
600

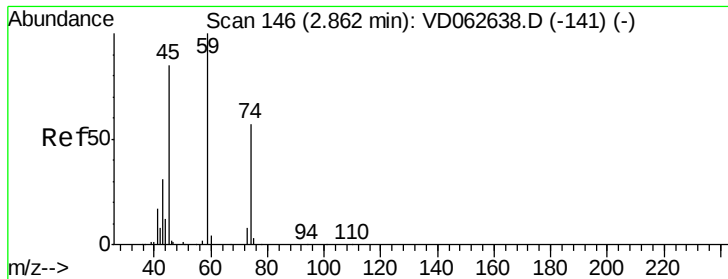
400

200

0

Time-->





#8

Diethyl Ether

Concen: 1.079 ug/l

RT: 2.88 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

Instrument :

MSVOA_D

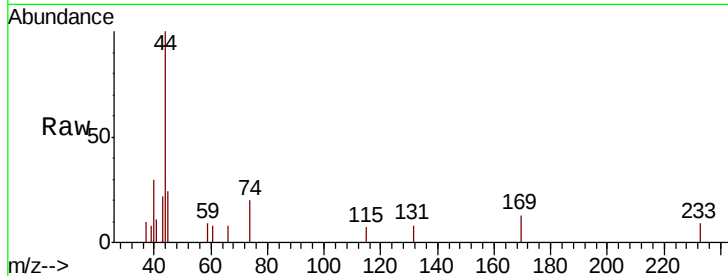
ClientSampleId :

Tot Ion: 74 Resp: 1780

Ion Ratio Lower Upper

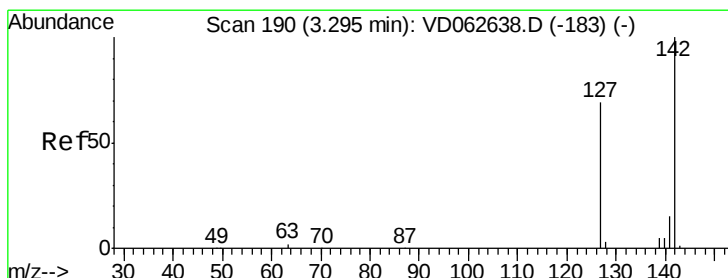
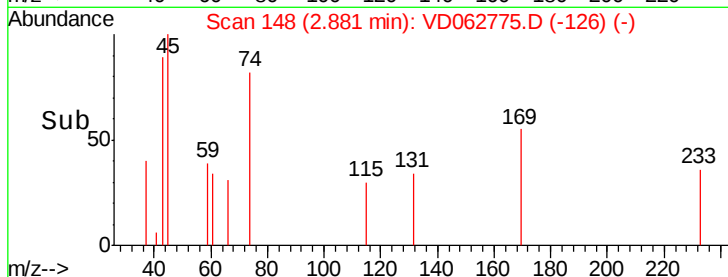
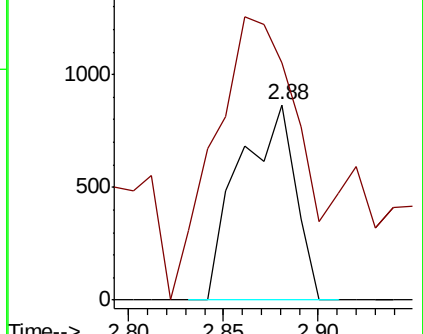
74 100

45 121.7 74.9 224.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#10

Methyl Iodide

Concen: 4.048 ug/l

RT: 3.30 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

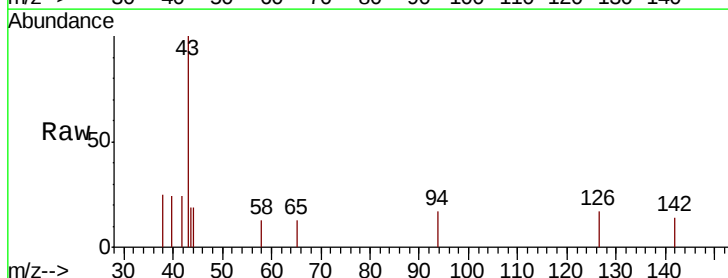
Tgt Ion: 142 Resp: 402

Ion Ratio Lower Upper

142 100

127 0.0 55.2 82.8#

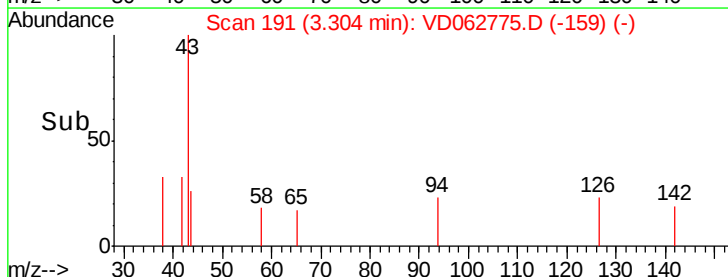
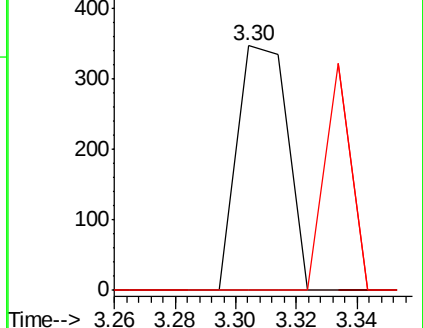
141 0.0 12.1 18.1#

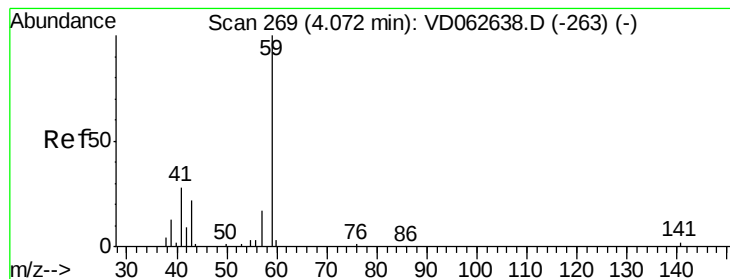


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



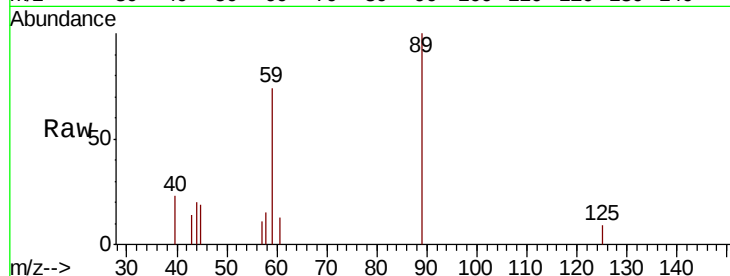


#11

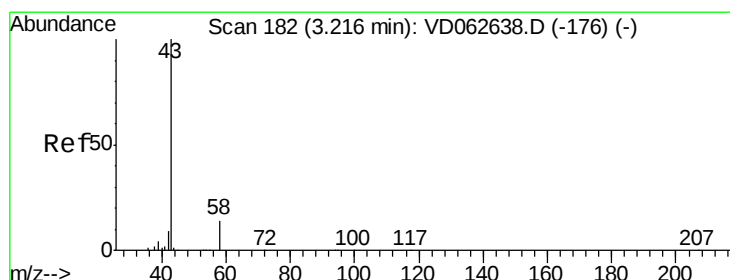
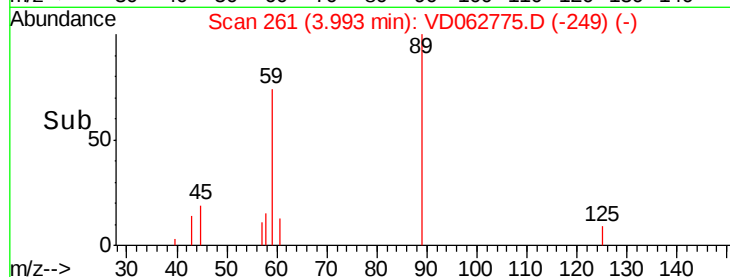
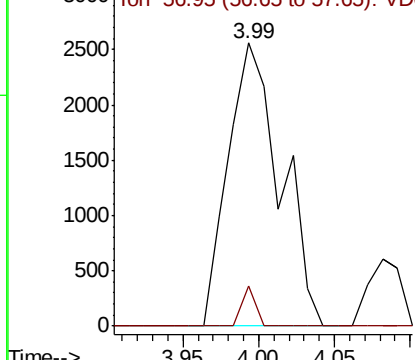
Tert butyl alcohol
 Concen: 19.638 ug/l
 RT: 3.99 min Scan# 261
 Delta R.T. -0.08 min
 Lab File: VD062775.D
 Acq: 19 Jun 2019 5:34

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 59 Resp: 6189
 Ion Ratio Lower Upper
 59 100
 57 14.4 13.7 20.5



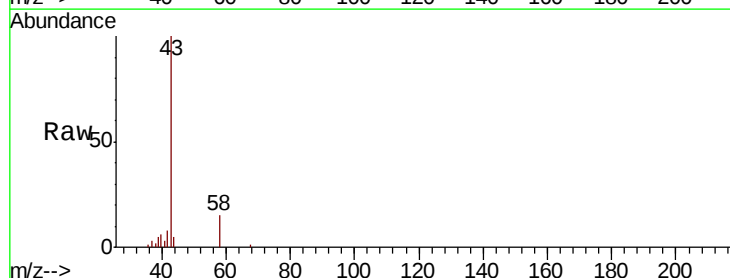
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



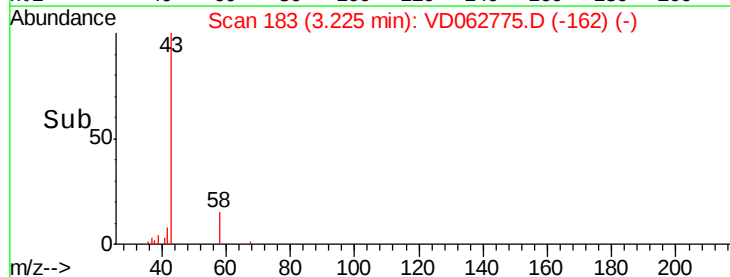
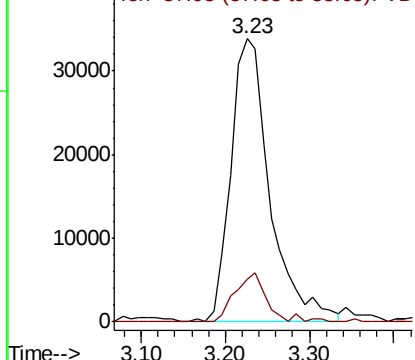
#16

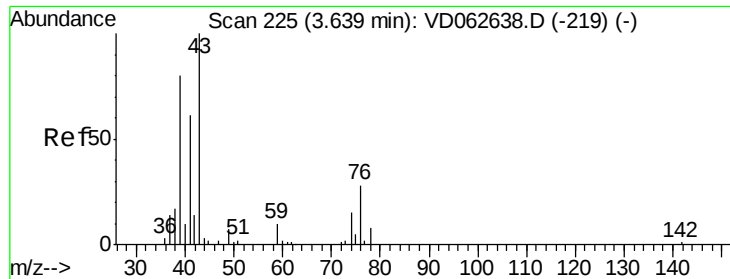
Acetone
 Concen: 77.872 ug/l
 RT: 3.23 min Scan# 183
 Delta R.T. 0.01 min
 Lab File: VD062775.D
 Acq: 19 Jun 2019 5:34

Tgt Ion: 43 Resp: 109328
 Ion Ratio Lower Upper
 43 100
 58 14.9 10.8 16.2



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

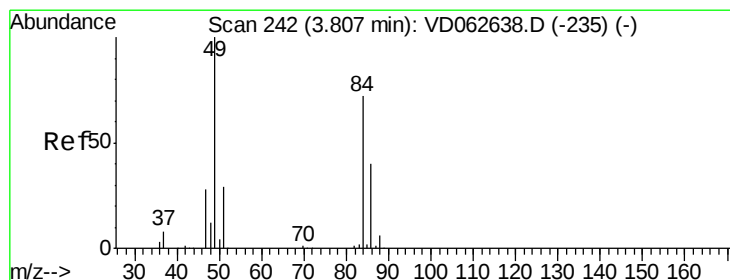
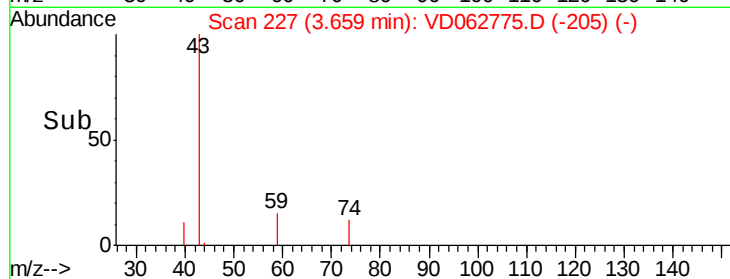
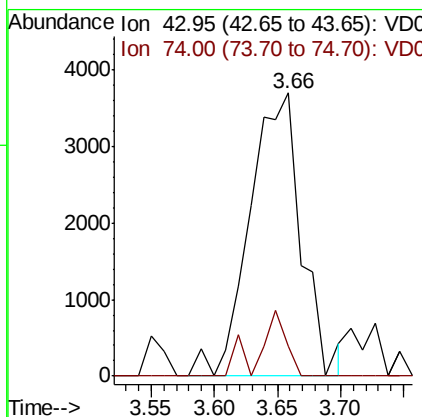
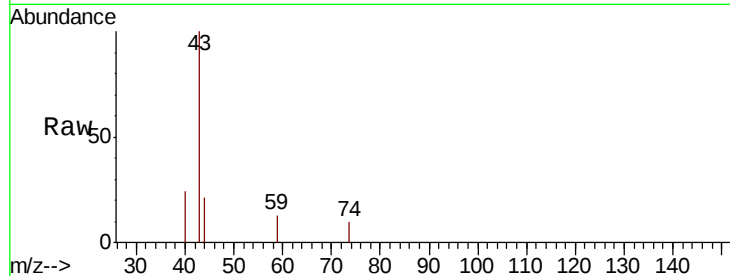




#18
Methvl Acetate
Concen: 4.553 ug/l
RT: 3.66 min Scan# 227
Delta R.T. 0.02 min
Lab File: VD062775.D
Acq: 19 Jun 2019 5:34

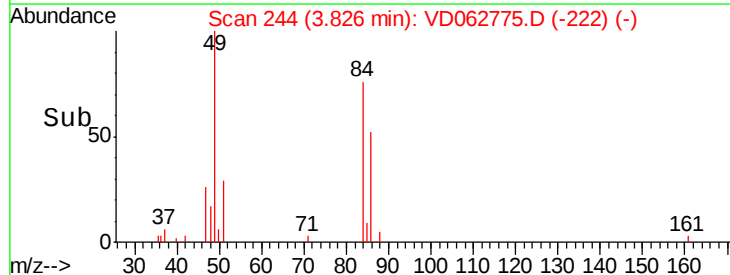
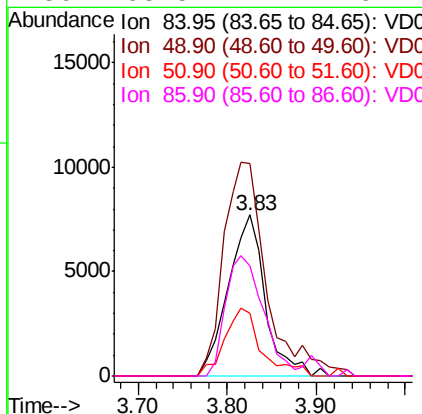
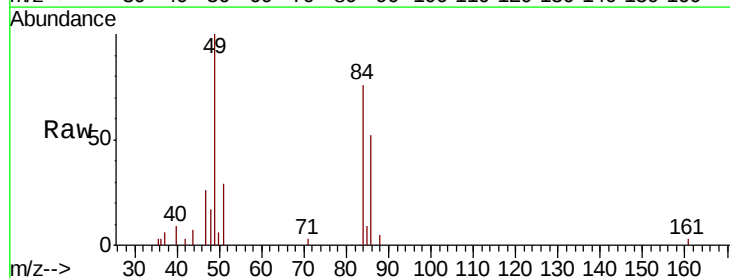
Instrument :
MSVOA_D
ClientSampleId :

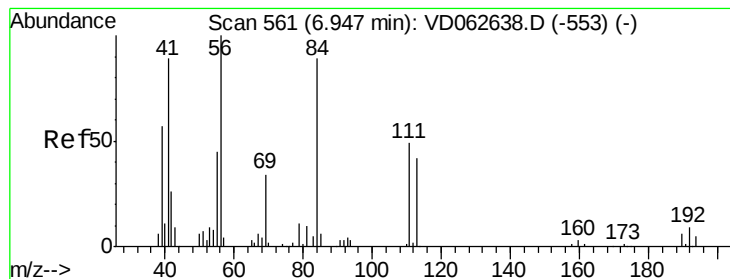
Tot Ion: 43 Resp: 10504
Ion Ratio Lower Upper
43 100
74 10.4 12.1 18.1#



#20
Methylene Chloride
Concen: 3.803 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.02 min
Lab File: VD062775.D
Acq: 19 Jun 2019 5:34

Tgt Ion: 84 Resp: 22335
Ion Ratio Lower Upper
84 100
49 132.1 111.2 166.8
51 38.9 31.9 47.9
86 68.5 44.7 67.1#





#31

Cyclohexane

Concen: 2.197 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.11 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

Instrument :

MSVOA_D

ClientSampleId :

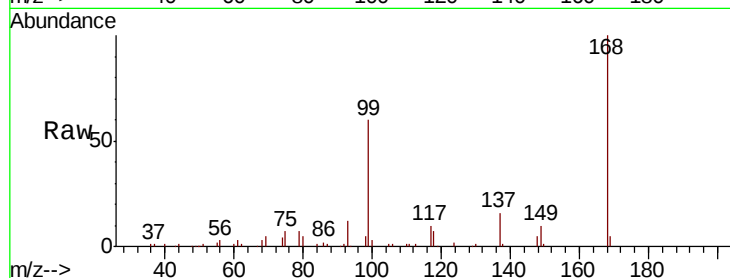
Tot Ion: 56 Resp: 13291

Ion Ratio Lower Upper

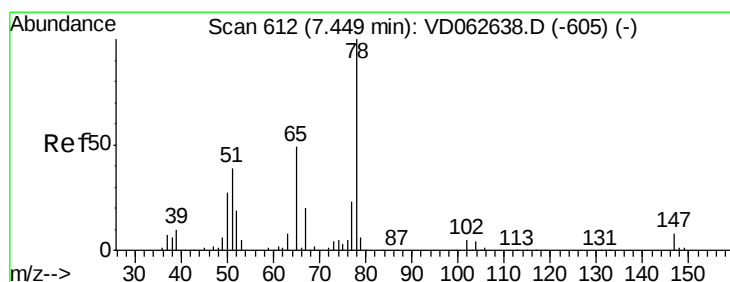
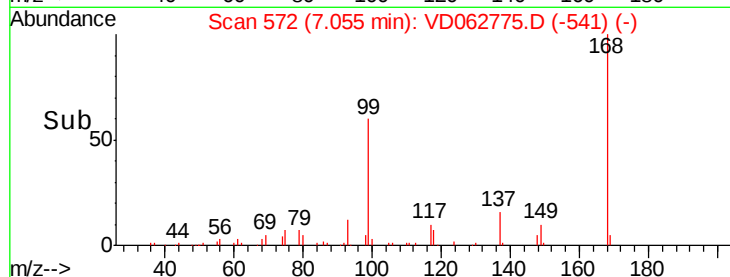
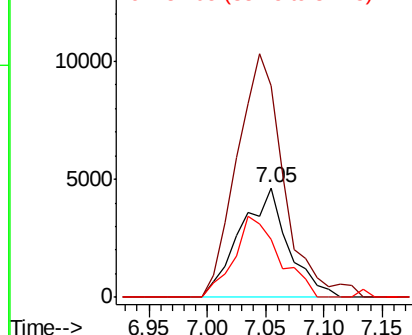
56 100

69 193.6 26.8 40.2#

84 53.2 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: 50.601 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD062775.D

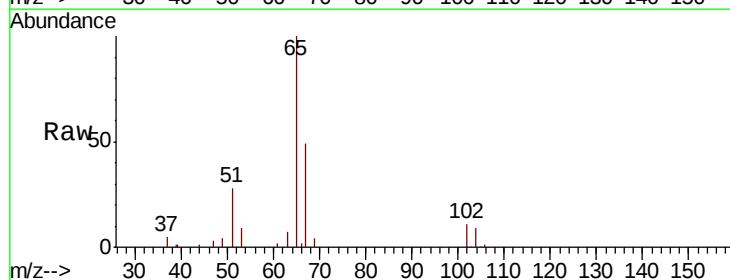
Acq: 19 Jun 2019 5:34

Tgt Ion: 65 Resp: 387953

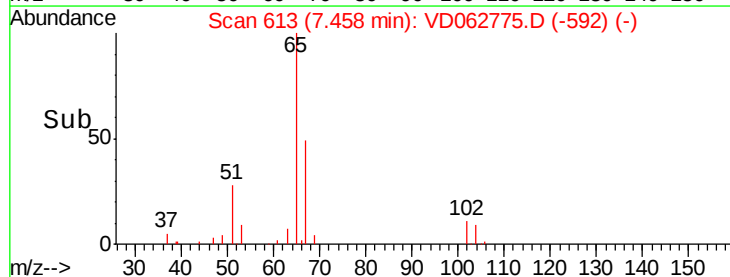
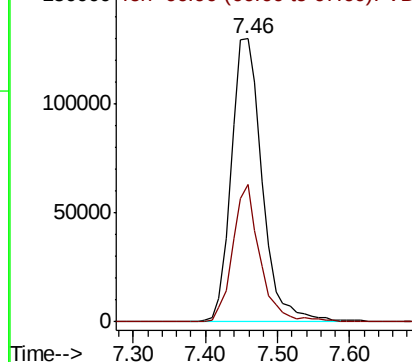
Ion Ratio Lower Upper

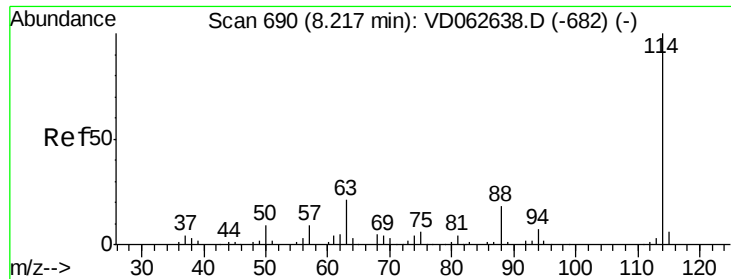
65 100

67 48.5 0.0 81.8



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

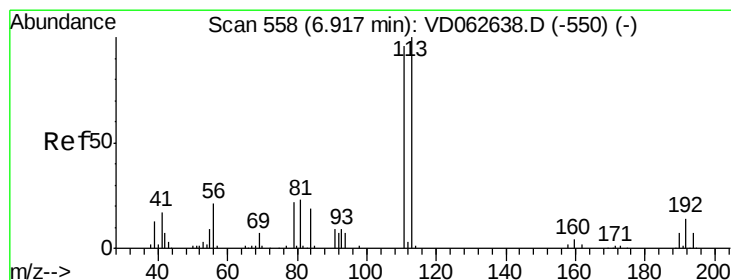
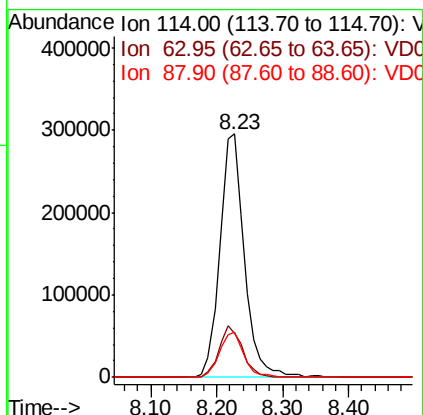
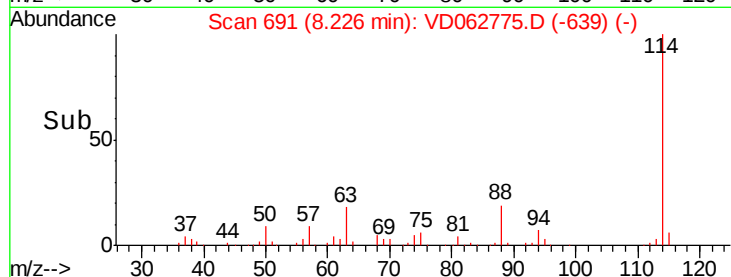
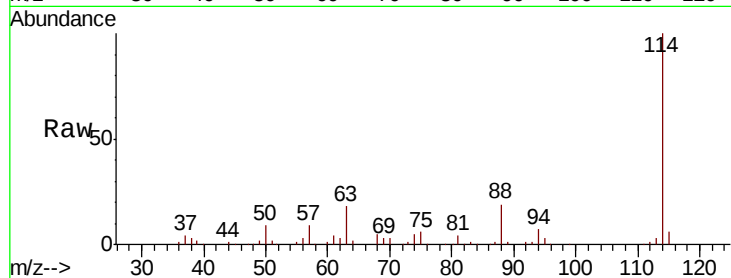




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VD062775.D
 Acq: 19 Jun 2019 5:34

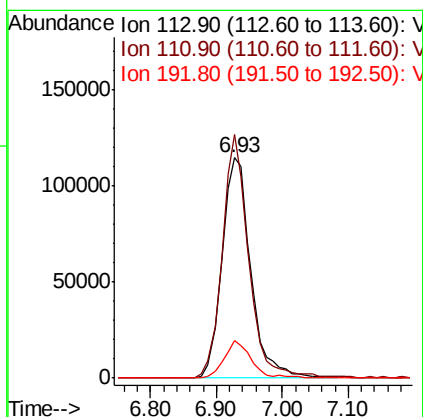
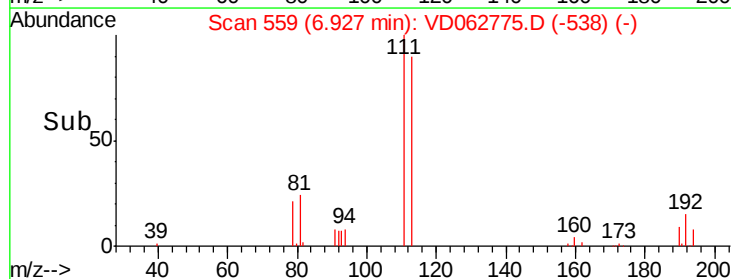
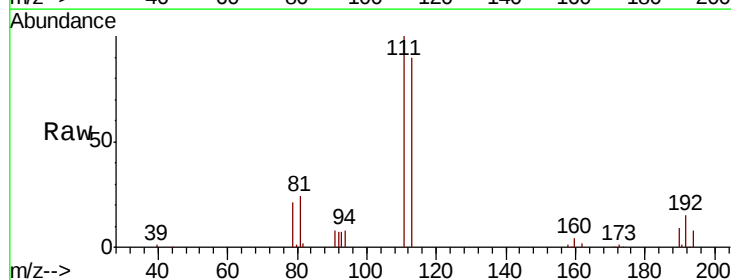
Instrument :
 MSVOA_D
 ClientSampleId :

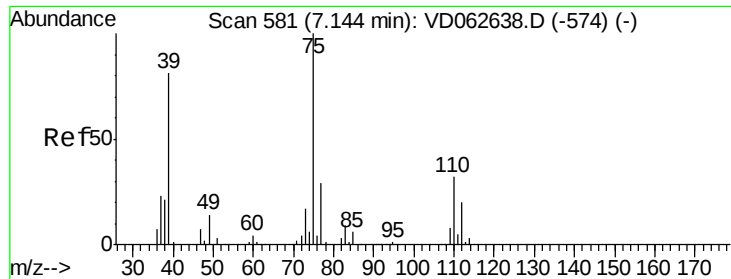
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.1	0.0	42.4
88	18.7	0.0	36.8



#35
 Dibromofluoromethane
 Concen: 43.227 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD062775.D
 Acq: 19 Jun 2019 5:34

Tgt Ion	Ratio	Lower	Upper
113	100		
111	110.7	76.4	114.6
192	16.9	11.4	17.0





#36

1,1-Dichloropropene

Concen: 5.051 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.10 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

Instrument :

MSVOA_D

ClientSampleId :

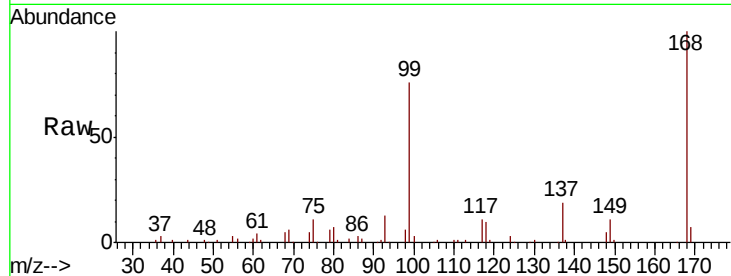
Tot Ion: 75 Resp: 44345

Ion Ratio Lower Upper

75 100

110 9.9 15.9 47.7#

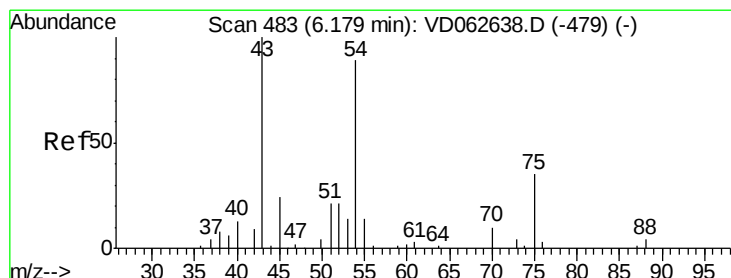
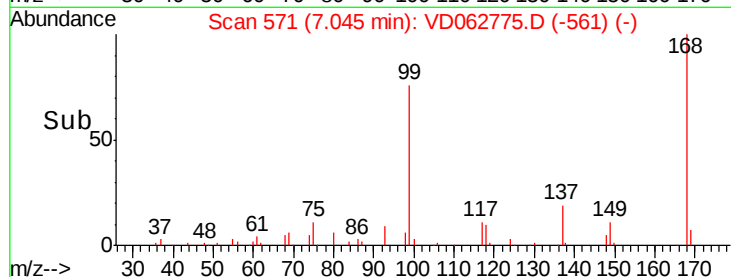
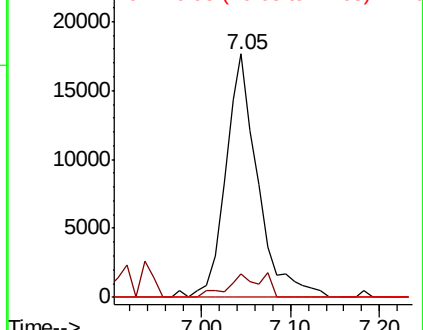
77 0.0 23.3 34.9#



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: 1.912 ug/l

RT: 6.17 min Scan# 482

Delta R.T. -0.01 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

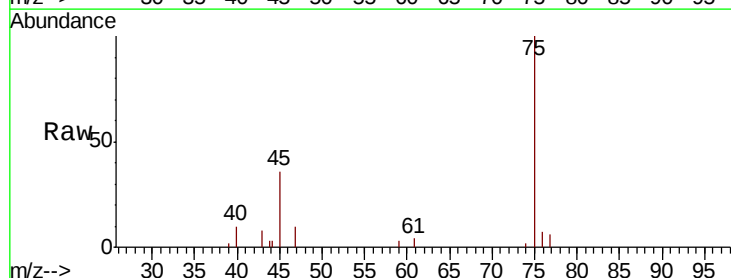
Tgt Ion: 43 Resp: 2727

Ion Ratio Lower Upper

43 100

61 45.3 8.7 13.1#

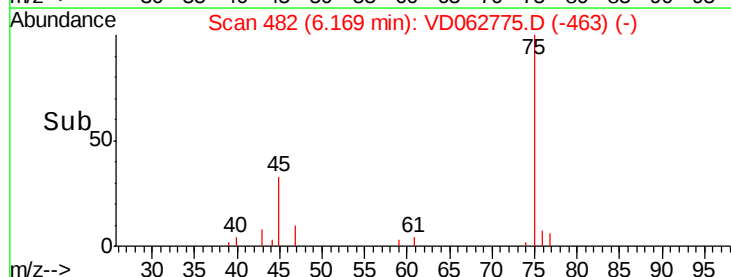
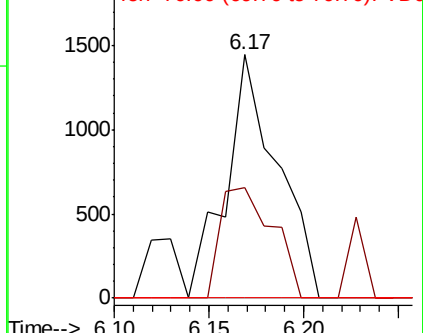
70 0.0 6.5 9.7#

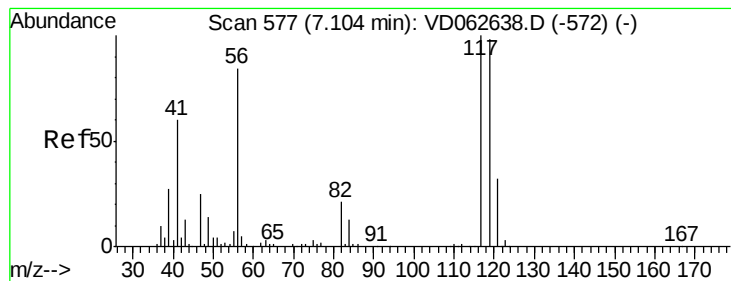


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 4.045 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.06 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

Instrument :

MSVOA_D

ClientSampleId :

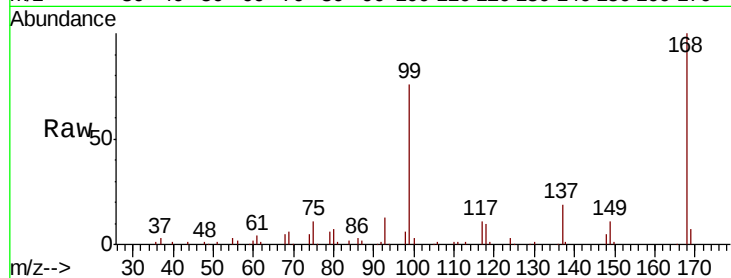
Tot Ion:117 Resp: 56121

Ion Ratio Lower Upper

117 100

119 5.1 73.5 110.3#

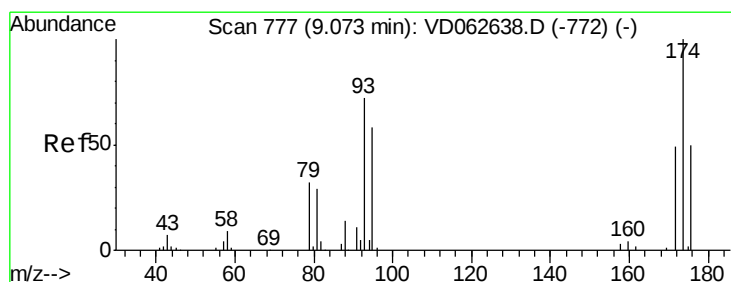
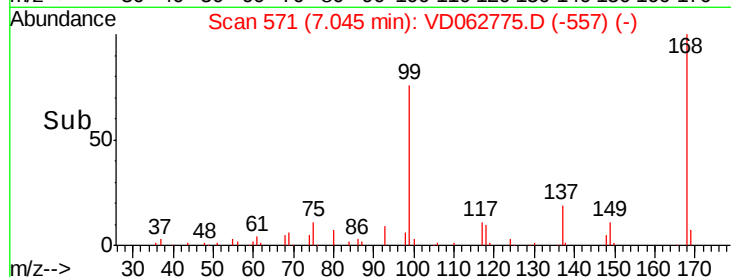
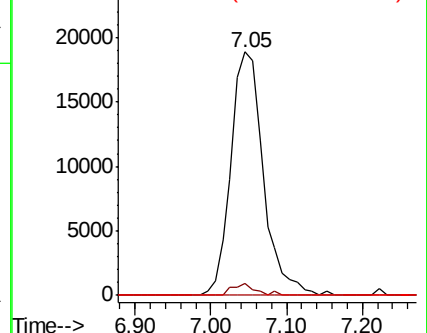
121 0.0 24.2 36.4#



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



#49

1,4-Dioxane

Concen: 53.791 ug/l

RT: 9.11 min Scan# 781

Delta R.T. 0.04 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

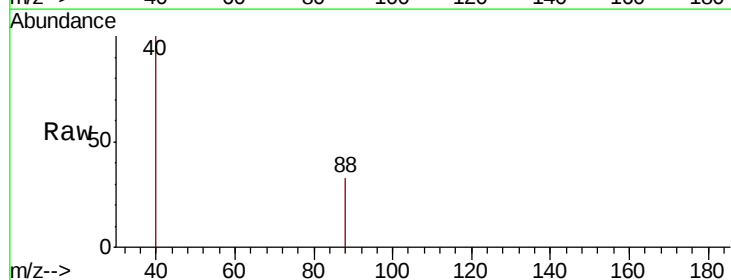
Tgt Ion: 88 Resp: 205

Ion Ratio Lower Upper

88 100

43 0.0 40.7 61.1#

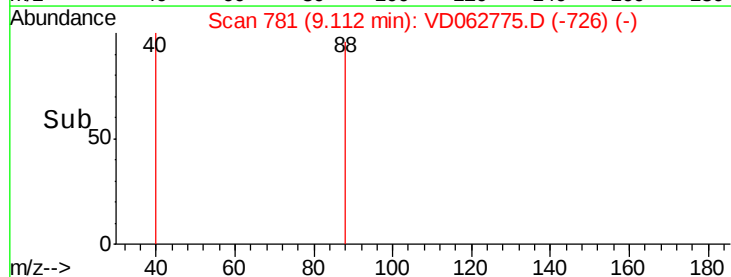
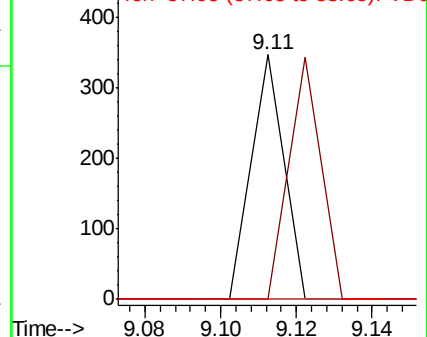
58 0.0 54.2 81.4#

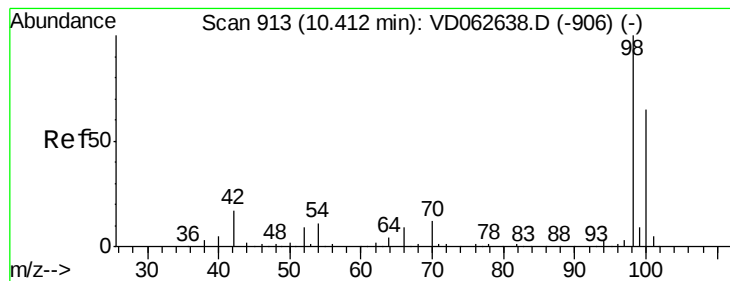


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 27.026 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

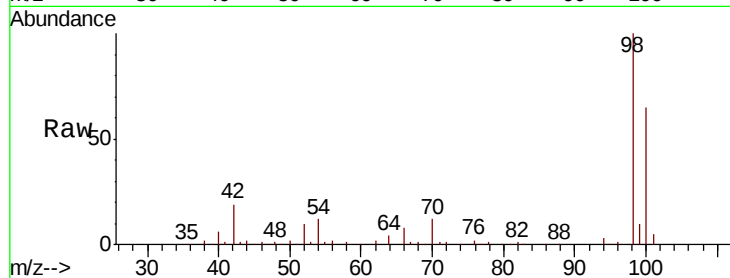
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 459917

Ion Ratio Lower Upper

98 100

100 65.2 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): VD062638.D (-906) (-)

Ion 100.05 (99.75 to 100.75): VD062638.D (-906) (-)

10.41

200000

150000

100000

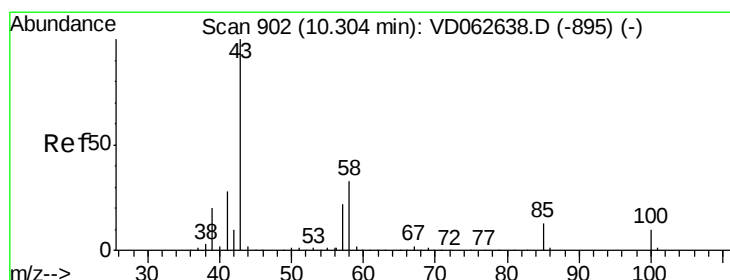
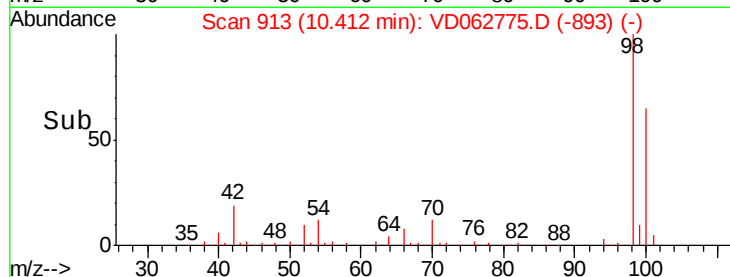
50000

0

10.40

10.60

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.106 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.11 min

Lab File: VD062775.D

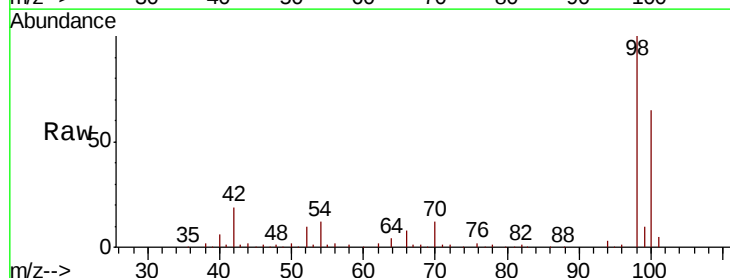
Acq: 19 Jun 2019 5:34

Tgt Ion: 43 Resp: 3585

Ion Ratio Lower Upper

43 100

58 93.7 26.1 39.1#



Abundance Ion 42.95 (42.65 to 43.65): VD062638.D (-895) (-)

Ion 57.95 (57.65 to 58.65): VD062638.D (-895) (-)

10.41

2000

1500

1000

500

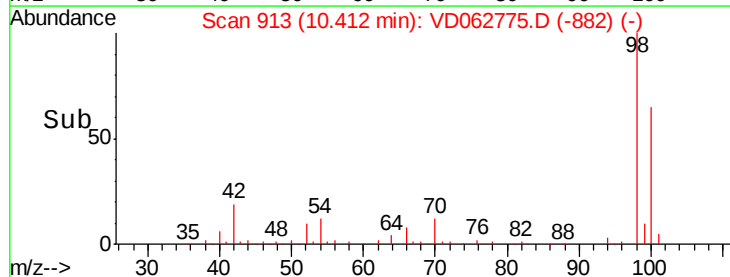
0

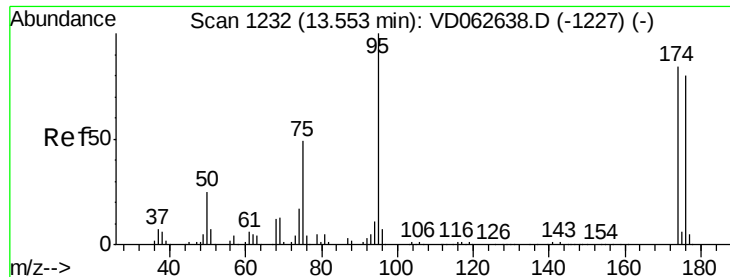
10.35

10.40

10.45

Time-->





#62

4-Bromofluorobenzene

Concen: 22.886 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

Instrument :

MSVOA_D

ClientSampleId :

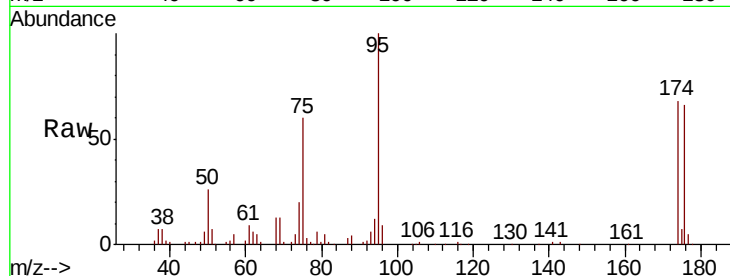
Tot Ion: 95 Resp: 181702

Ion Ratio Lower Upper

95 100

174 68.4 0.0 167.0

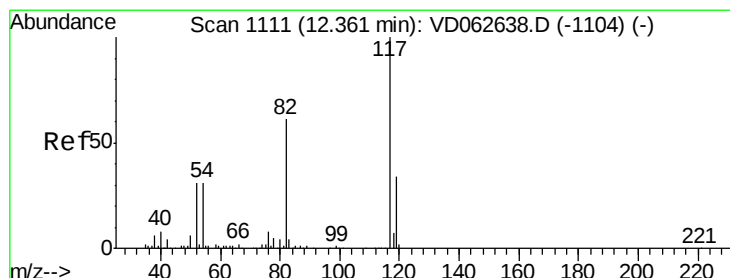
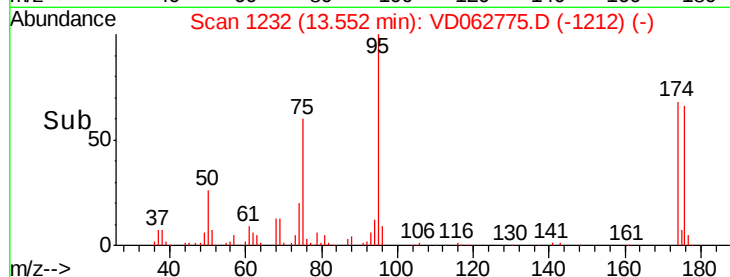
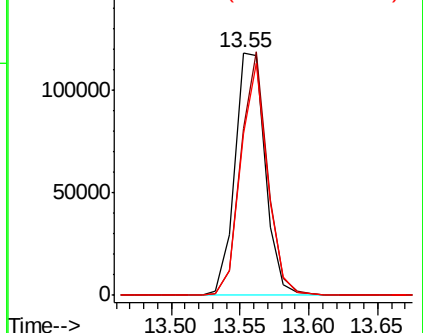
176 66.5 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): V

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: VD062775.D

Acq: 19 Jun 2019 5:34

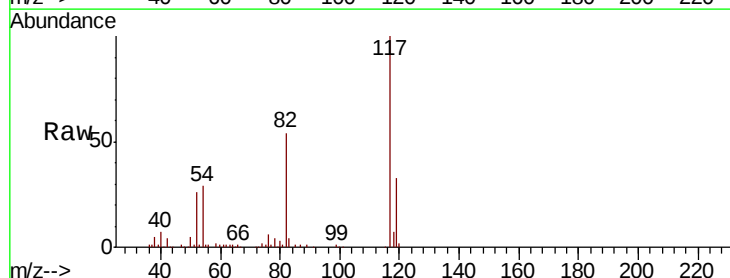
Tgt Ion: 117 Resp: 465478

Ion Ratio Lower Upper

117 100

82 53.8 48.7 73.1

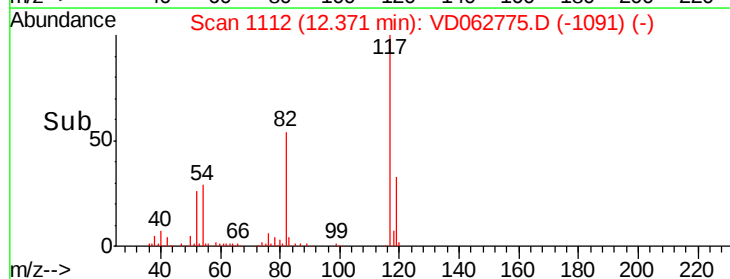
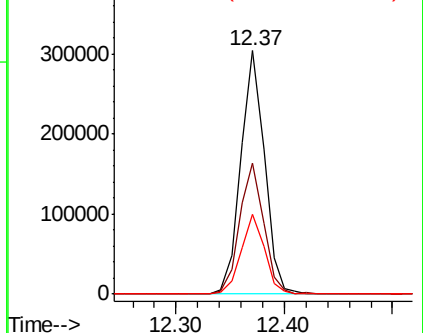
119 32.7 27.0 40.6

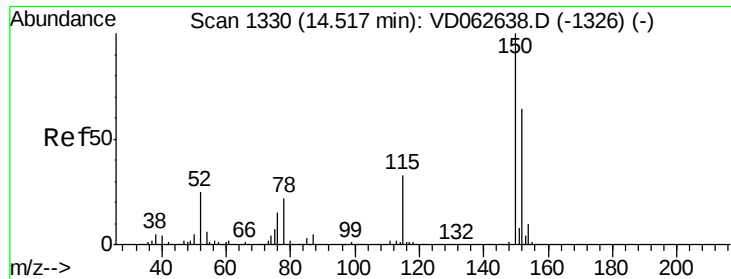


Abundance Ion 116.95 (116.65 to 117.65): V

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. -0.00 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

Instrument :

MSVOA_D

ClientSampleId :

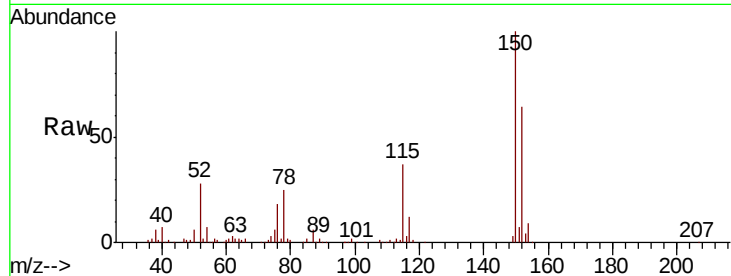
Tot Ion:152 Resp: 154834

Ion Ratio Lower Upper

152 100

115 57.8 30.1 90.5

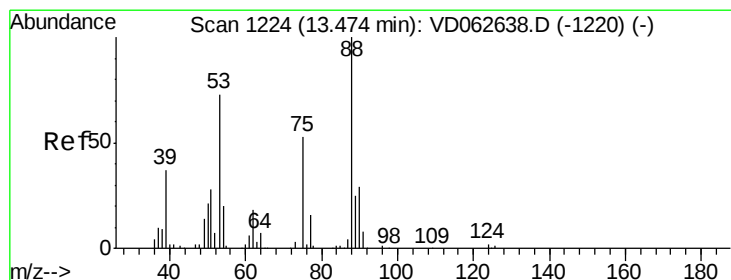
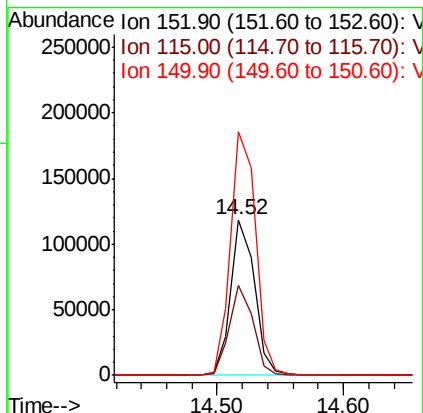
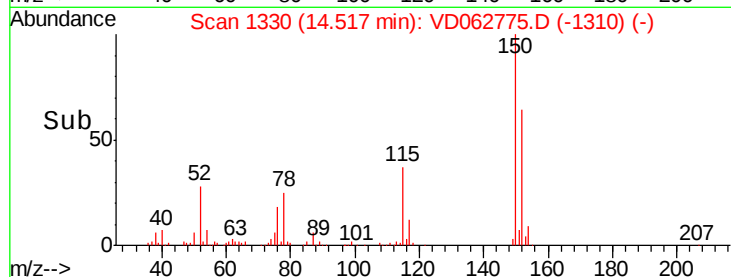
150 156.2 0.0 314.0



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



#81

trans-1,4-Dichloro-2-butene

Concen: 145.972 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062775.D

Acq: 19 Jun 2019 5:34

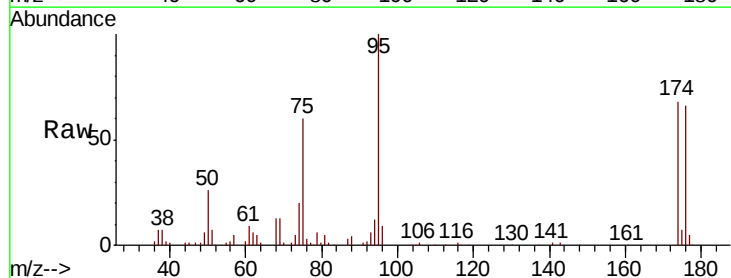
Tgt Ion: 75 Resp: 95928

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

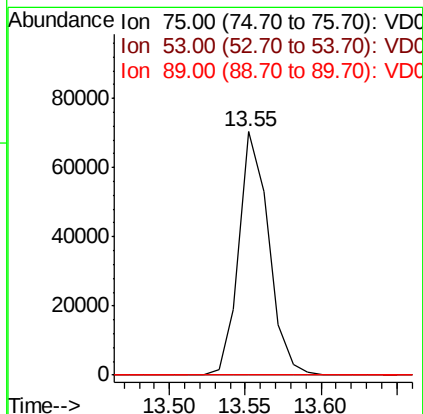
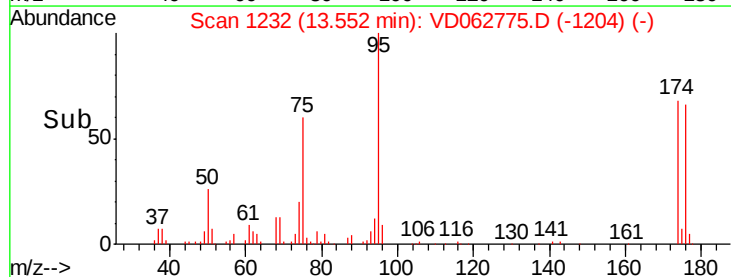
89 0.0 37.0 55.6#

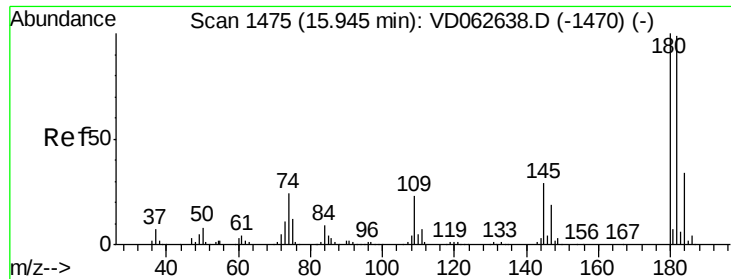


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

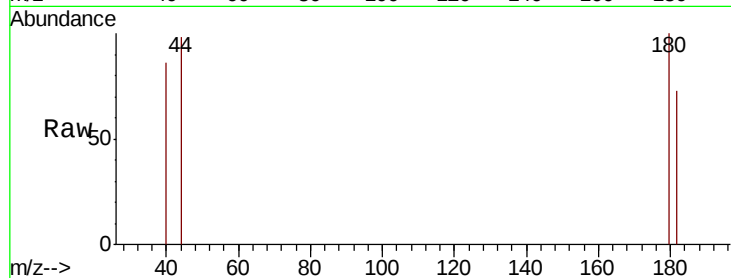




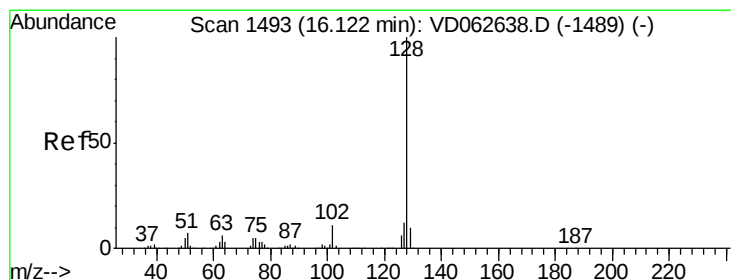
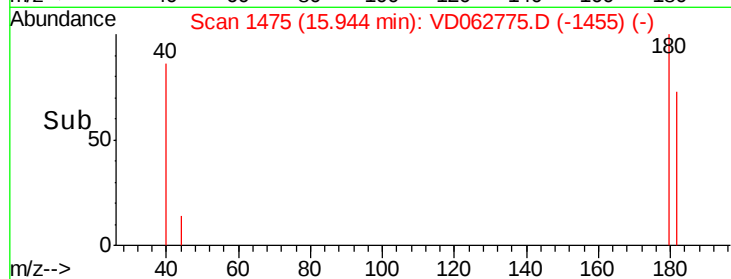
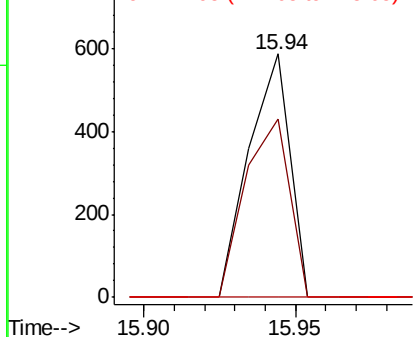
#93
 1,2,4-Trichlorobenzene
 Concen: 3.698 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062775.D
 Acq: 19 Jun 2019 5:34

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 559
 Ion Ratio Lower Upper
 180 100
 182 73.3 49.4 148.2
 145 0.0 14.5 43.6#

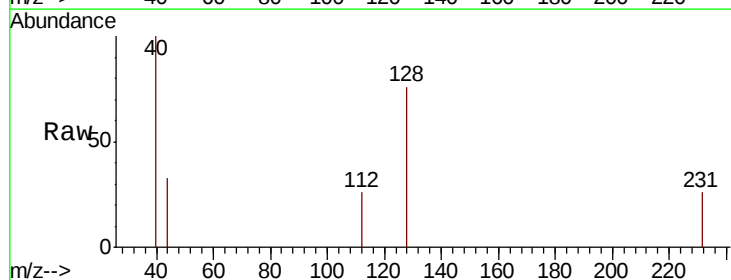


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 3.582 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062775.D
 Acq: 19 Jun 2019 5:34

Tgt Ion:128 Resp: 799
 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

