

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062756.D
 Acq On : 18 Jun 2019 18:14
 Operator : VA/AP
 Sample : K3419-10RE
 Misc : 5.00µg/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:26:37 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	7.05	168	87677	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	122504	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	112193	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	69461	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	65163	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
35) Dibromofluoromethane	6.93	113	54168	41.93	ug/l	0.00
Spiked Amount			Recovery	=	83.86%	
50) Toluene-d8	10.41	98	98584	36.27	ug/l	0.00
Spiked Amount			Recovery	=	72.54%	
62) 4-Bromofluorobenzene	13.55	95	49795	39.27	ug/l	0.00
Spiked Amount			Recovery	=	78.54%	

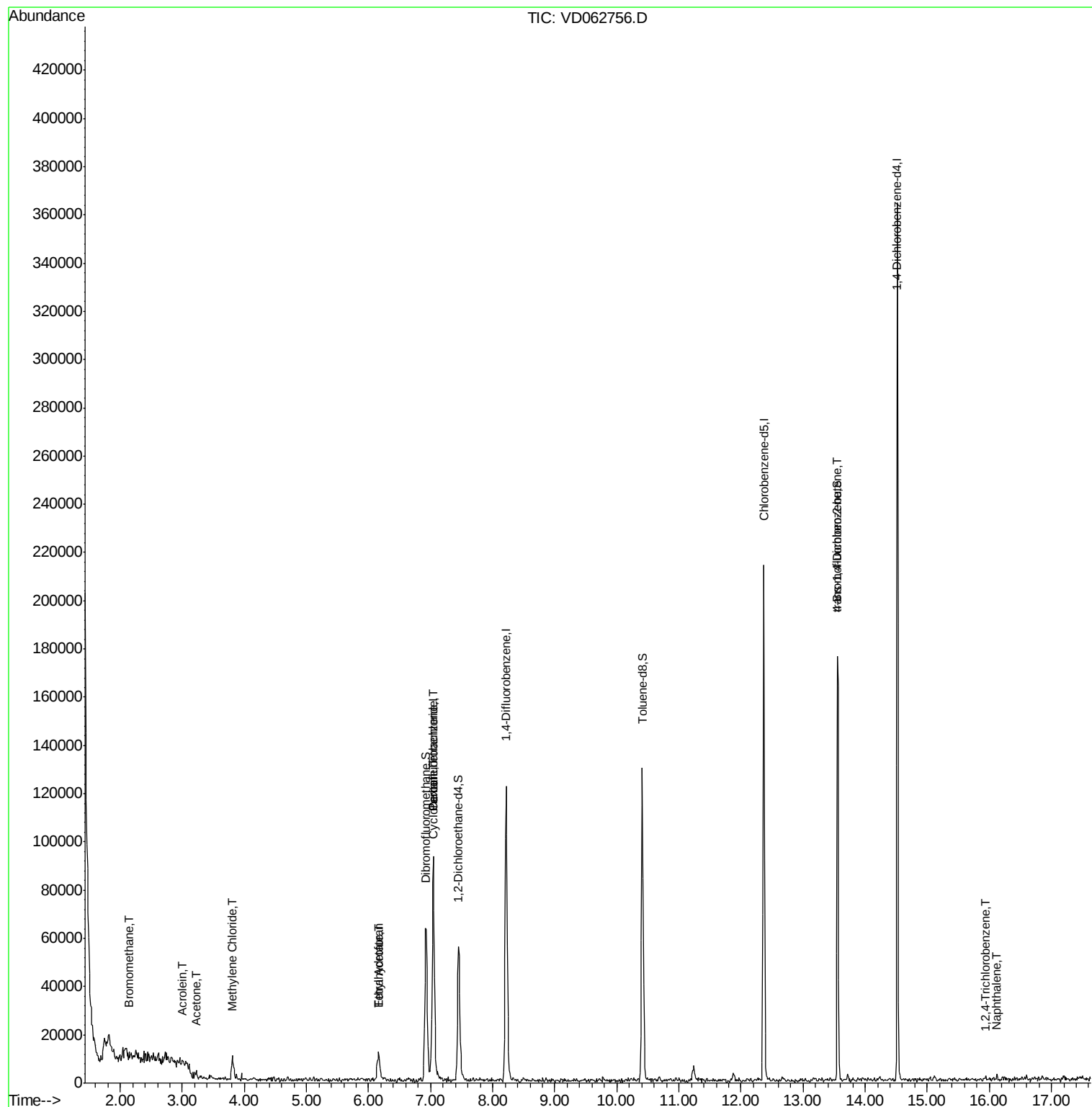
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.52	85	215	Below Cal	#	42
5) Bromomethane	2.14	94	663	1.468	ug/l #	11
13) Acrolein	3.00	56	240	14.347	ug/l #	21
16) Acetone	3.23	43	3368	14.538	ug/l #	55
20) Methylene Chloride	3.81	84	5233	5.586	ug/l #	89
29) Tetrahydrofuran	6.16	42	331	3.252	ug/l #	33
31) Cyclohexane	7.03	56	1645	1.648	ug/l #	9
37) Ethyl Acetate	6.15	43	1084	2.971	ug/l #	74
38) Carbon Tetrachloride	7.05	117	9109	4.110	ug/l #	14
81) trans-1,4-Dichloro-2-buten	13.55	75	25080	86.695	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	533	3.845	ug/l #	64
95) Naphthalene	16.12	128	891	3.779	ug/l #	71

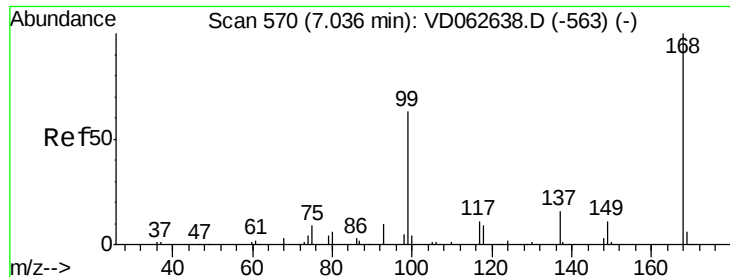
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061819\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
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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# 571

Delta R.T. 0.01 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

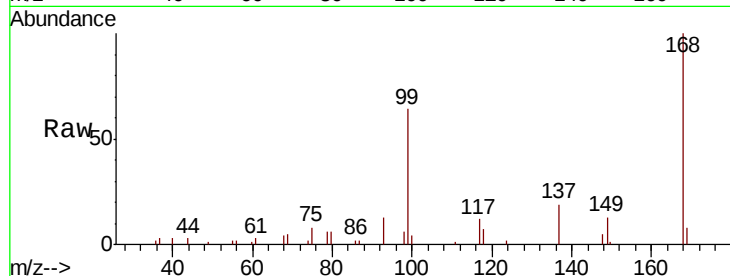
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 87677

Ion Ratio Lower Upper

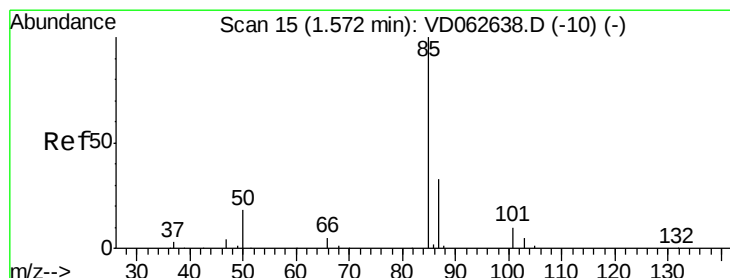
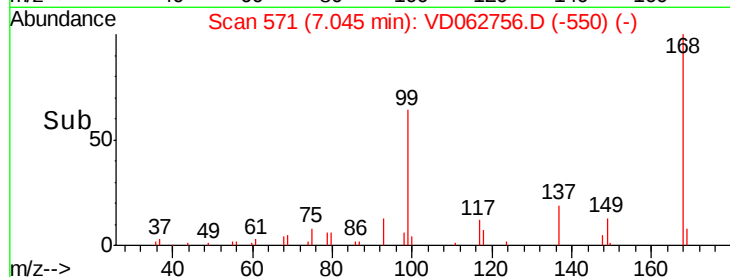
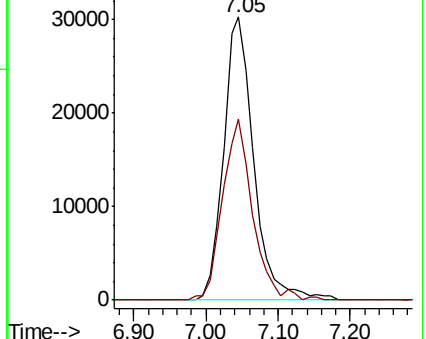
168 100

99 63.7 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: 1.52 min Scan# 10

Delta R.T. -0.05 min

Lab File: VD062756.D

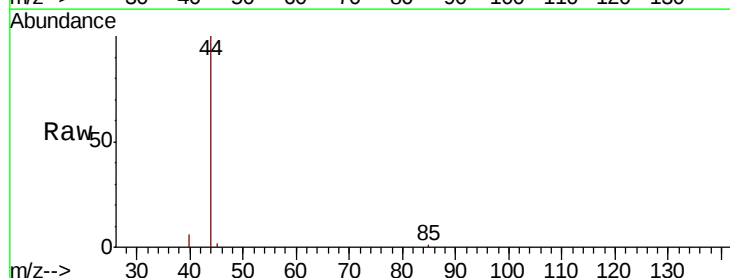
Acq: 18 Jun 2019 18:14

Tgt Ion: 85 Resp: 215

Ion Ratio Lower Upper

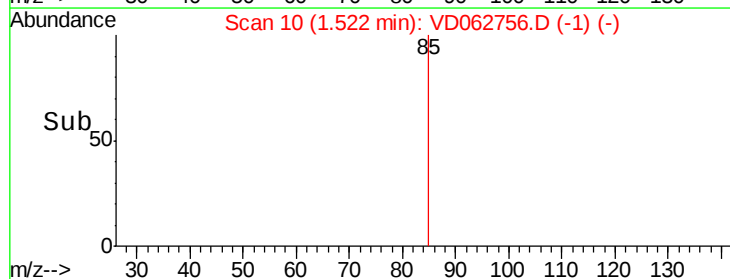
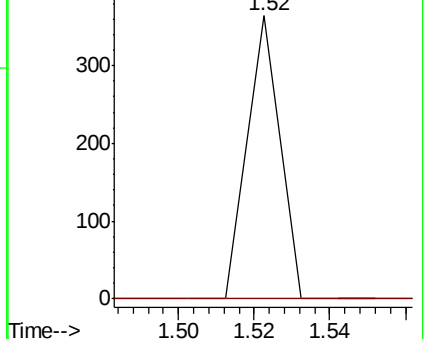
85 100

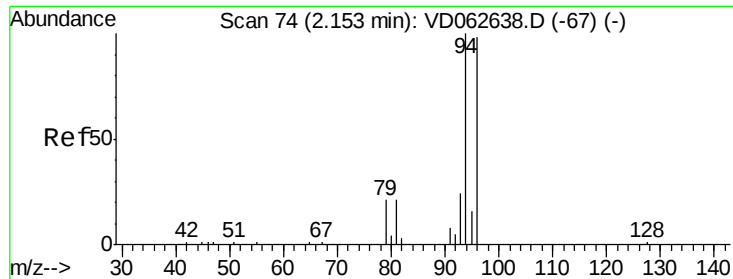
87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: 1.468 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

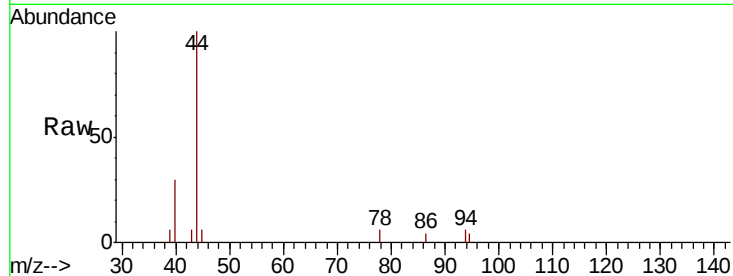
Tot Ion: 94 Resp: 663

Ion Ratio Lower Upper

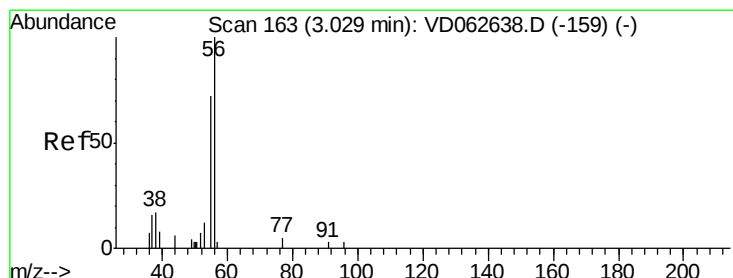
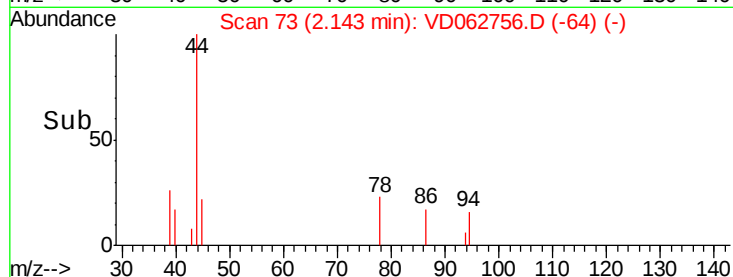
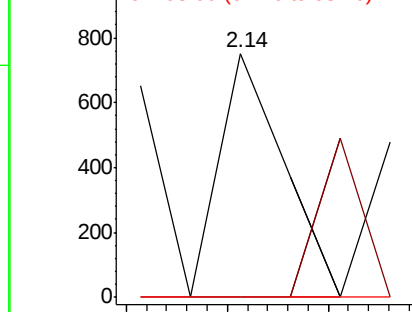
94 100

96 0.0 78.1 117.1#

93 0.0 19.6 29.4#



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: 14.347 ug/l

RT: 3.00 min Scan# 160

Delta R.T. -0.03 min

Lab File: VD062756.D

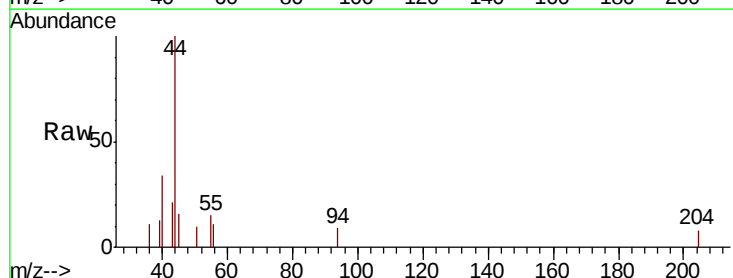
Acq: 18 Jun 2019 18:14

Tgt Ion: 56 Resp: 240

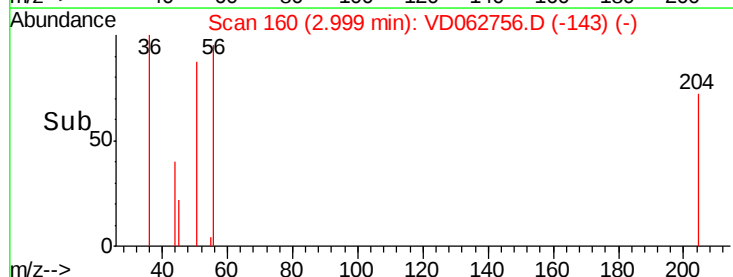
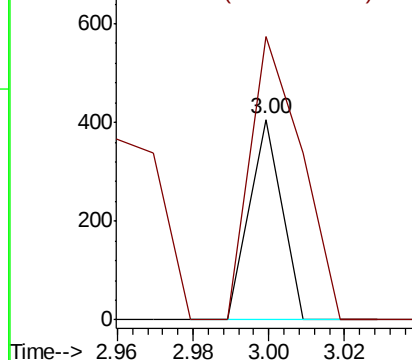
Ion Ratio Lower Upper

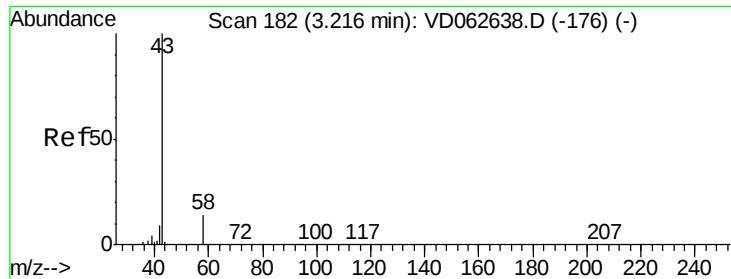
56 100

55 141.1 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: 14.538 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

Instrument :

MSVOA_D

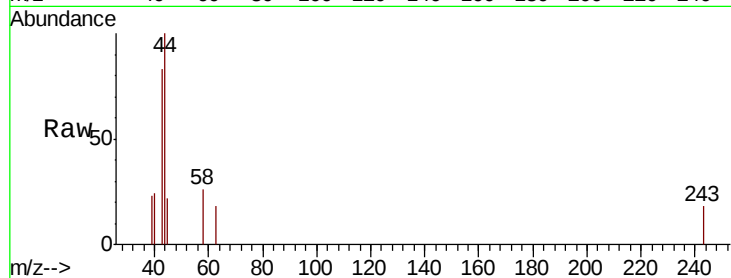
ClientSampleId :

Tot Ion: 43 Resp: 3368

Ion Ratio Lower Upper

43 100

58 31.6 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

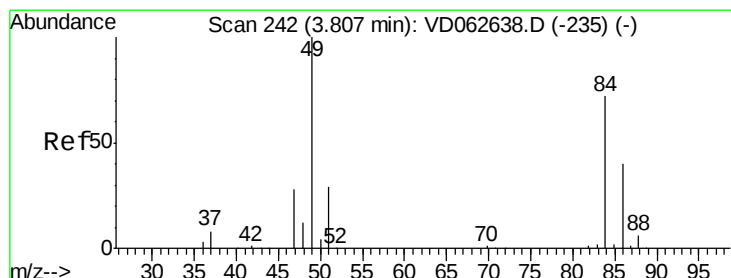
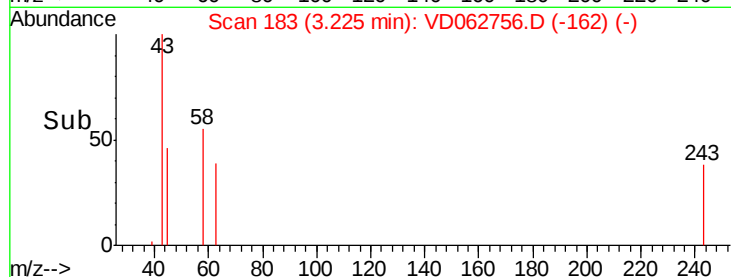
1500

1000

500

0

Time-->



#20

Methylene Chloride

Concen: 5.586 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

Tgt Ion: 84 Resp: 5233

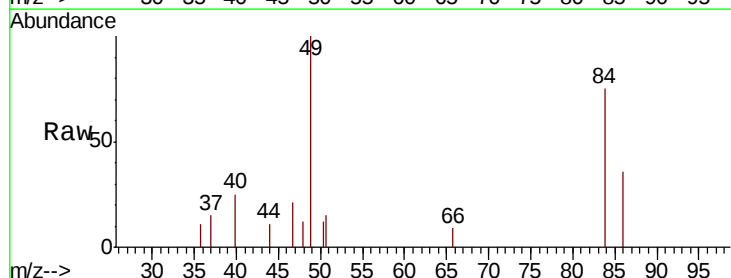
Ion Ratio Lower Upper

84 100

49 133.8 111.2 166.8

51 20.0 31.9 47.9#

86 48.3 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

5000

4000

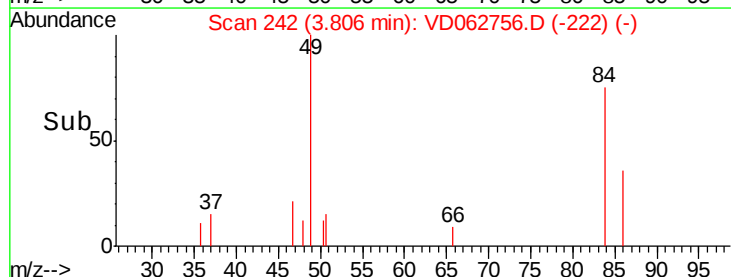
3000

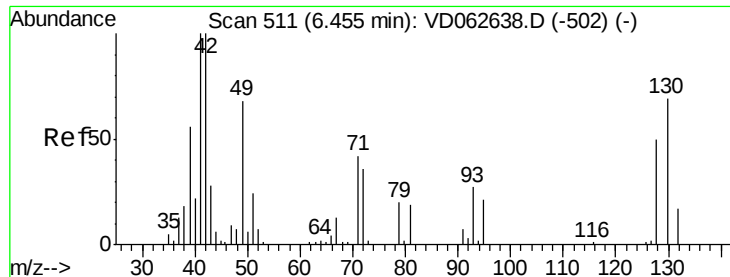
2000

1000

0

Time-->





#29

Tetrahydrofuran

Concen: 3.252 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.30 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

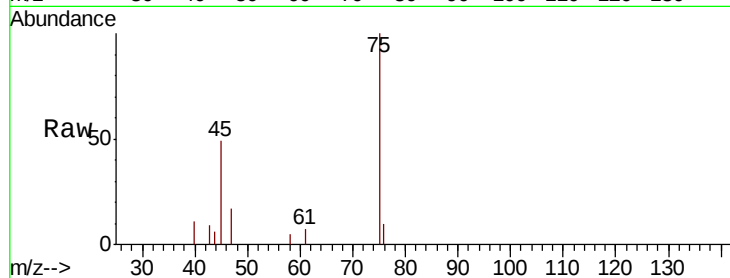
Tot Ion: 42 Resp: 331

Ion Ratio Lower Upper

42 100

72 0.0 33.8 50.6#

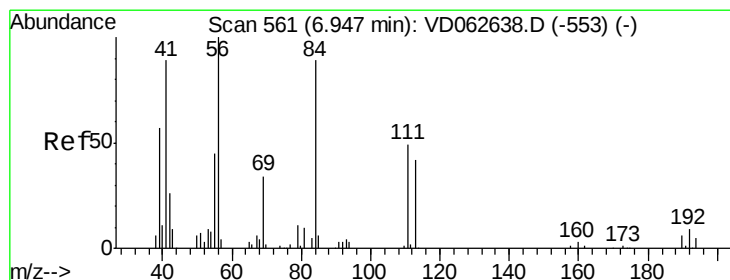
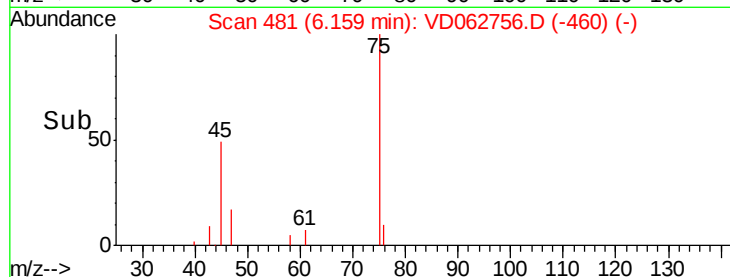
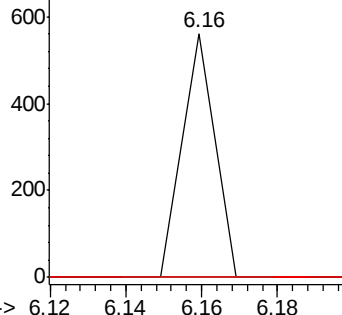
71 0.0 34.2 51.4#



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.648 ug/l

RT: 7.03 min Scan# 569

Delta R.T. 0.08 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

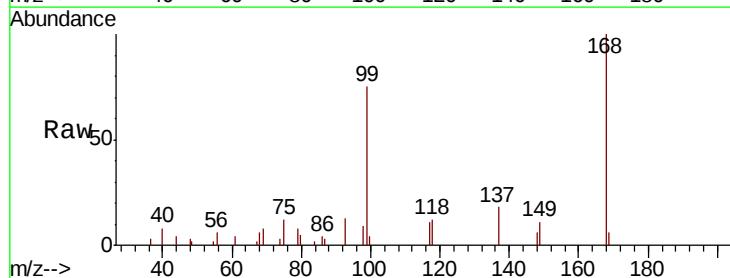
Tgt Ion: 56 Resp: 1645

Ion Ratio Lower Upper

56 100

69 137.1 26.8 40.2#

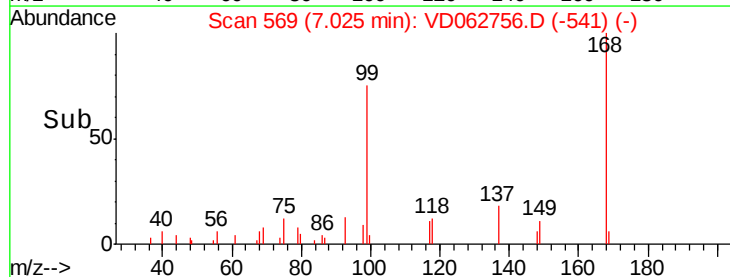
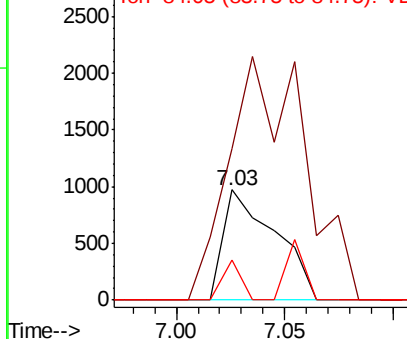
84 36.5 73.9 110.9#

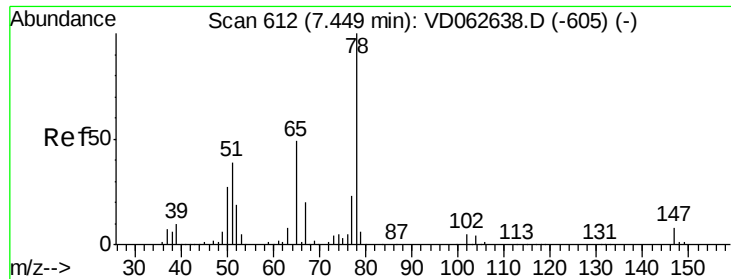


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 51.505 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.00 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

Instrument :

MSVOA_D

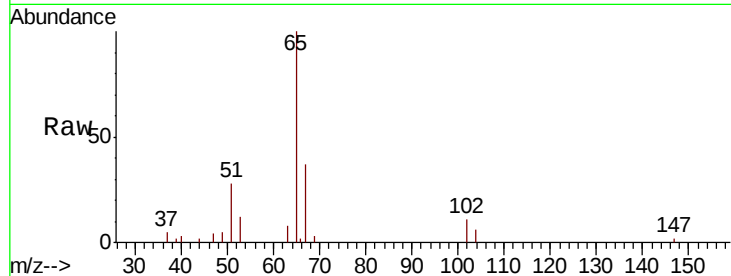
ClientSampled :

Tot Ion: 65 Resp: 65163

Ion Ratio Lower Upper

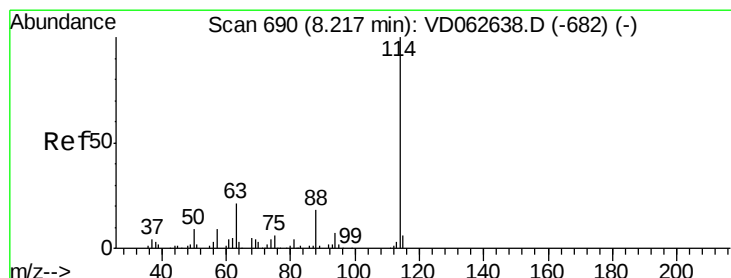
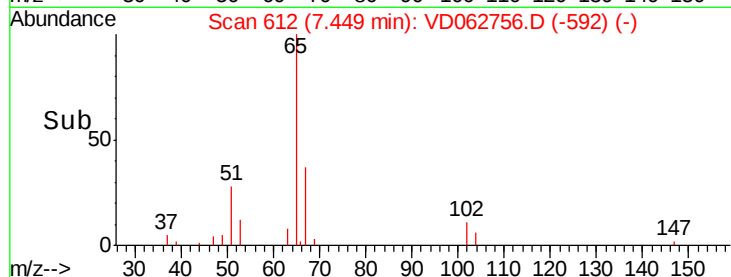
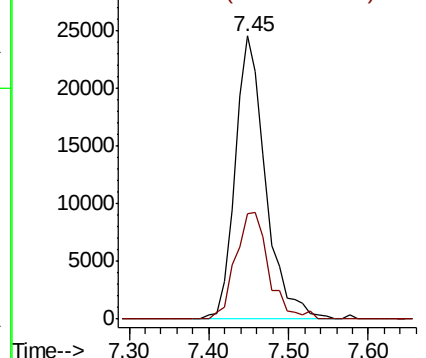
65 100

67 37.1 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: 8.22 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

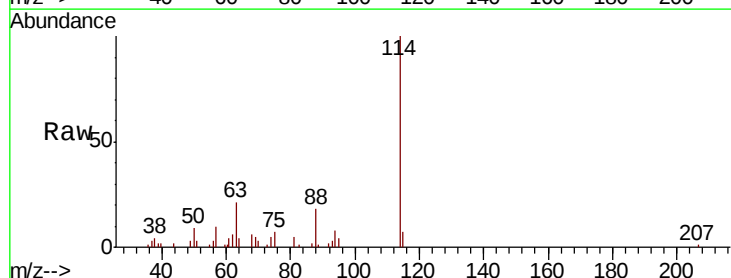
Tgt Ion: 114 Resp: 122504

Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.4

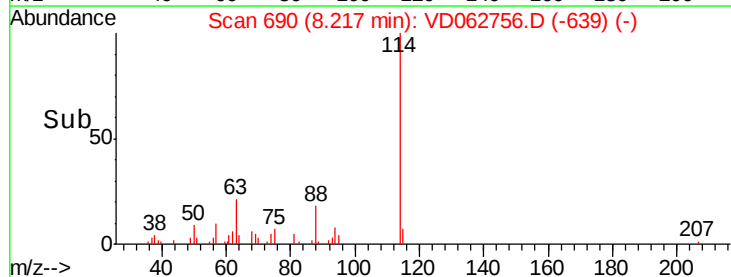
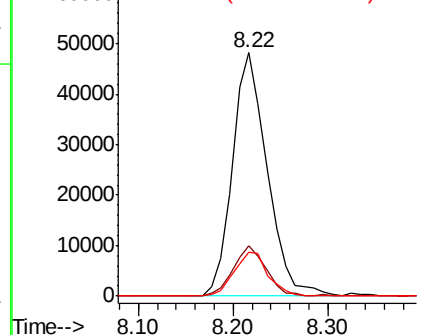
88 18.0 0.0 36.8

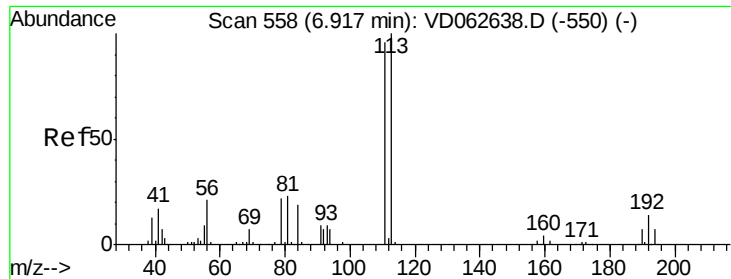


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 41.927 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

Instrument :

MSVOA_D

ClientSampled :

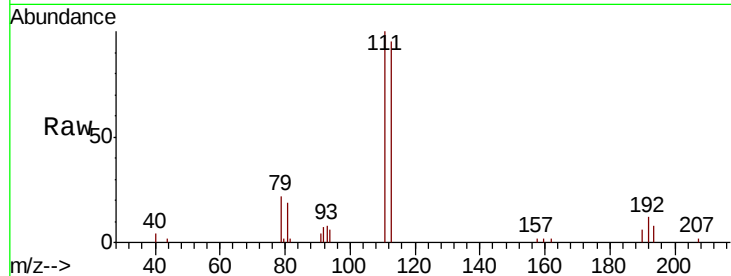
Tot Ion:113 Resp: 54168

Ion Ratio Lower Upper

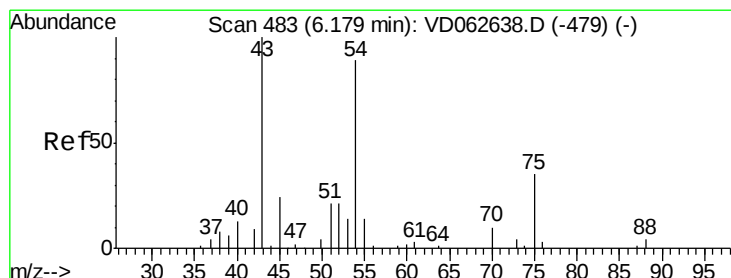
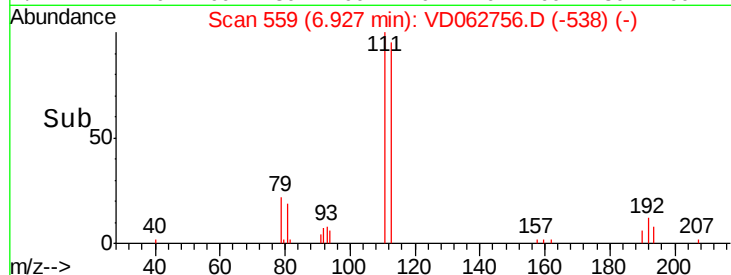
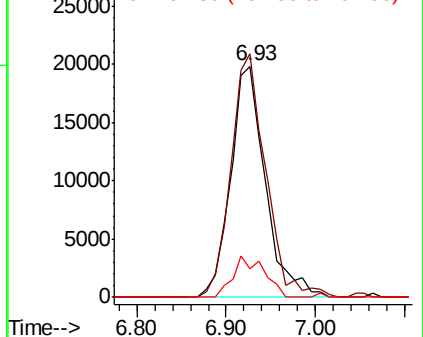
113 100

111 105.4 76.4 114.6

192 12.4 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



#37

Ethyl Acetate

Concen: 2.971 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.03 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

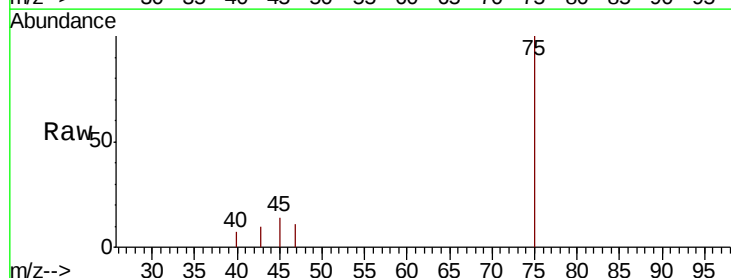
Tgt Ion: 43 Resp: 1084

Ion Ratio Lower Upper

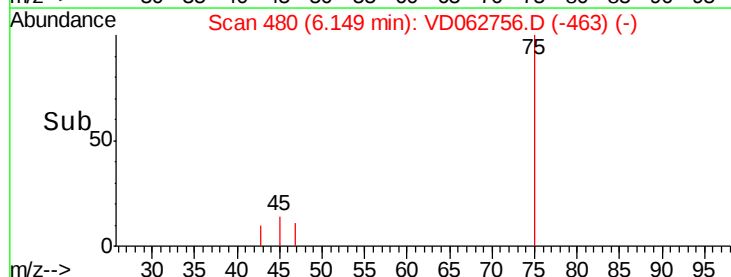
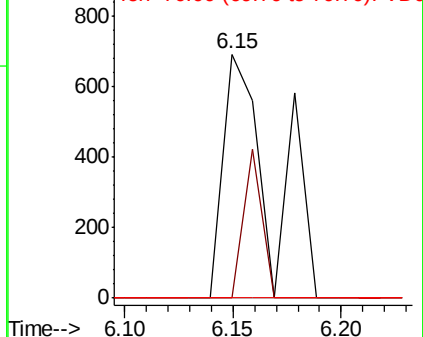
43 100

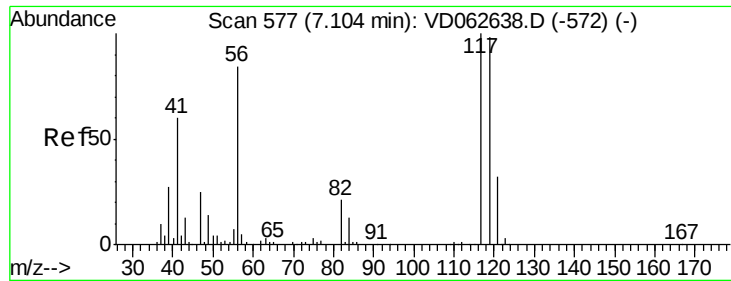
61 0.0 8.7 13.1#

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: 4.110 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.06 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

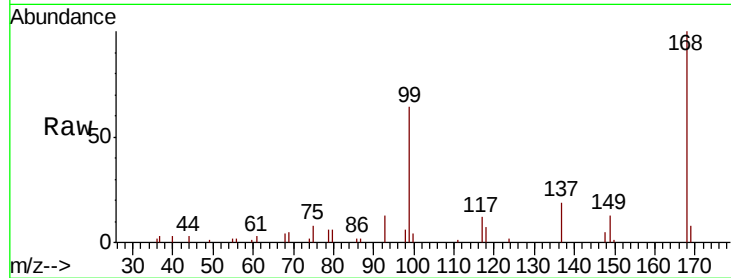
Tot Ion:117 Resp: 9109

Ion Ratio Lower Upper

117 100

119 0.0 73.5 110.3#

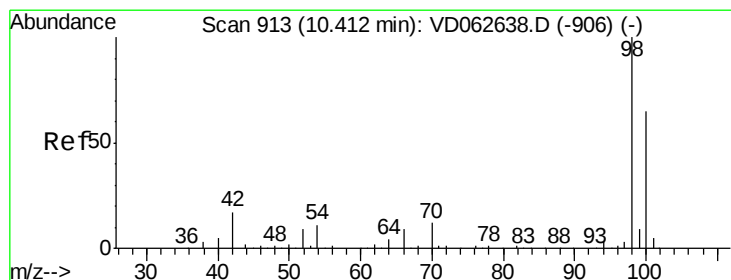
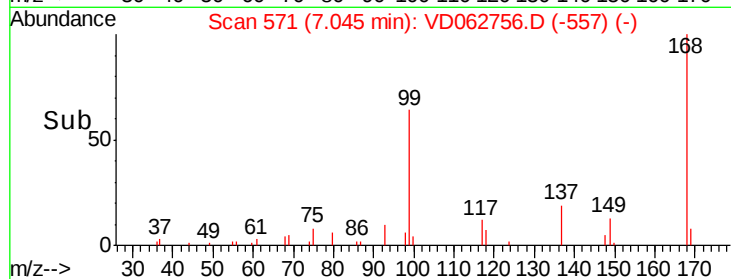
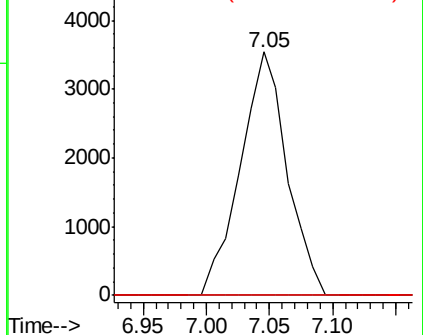
121 0.0 24.2 36.4#



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: 36.273 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD062756.D

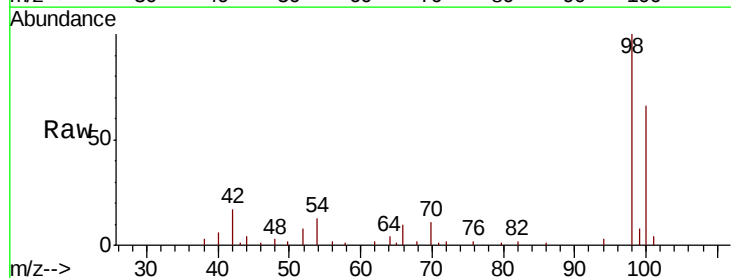
Acq: 18 Jun 2019 18:14

Tgt Ion: 98 Resp: 98584

Ion Ratio Lower Upper

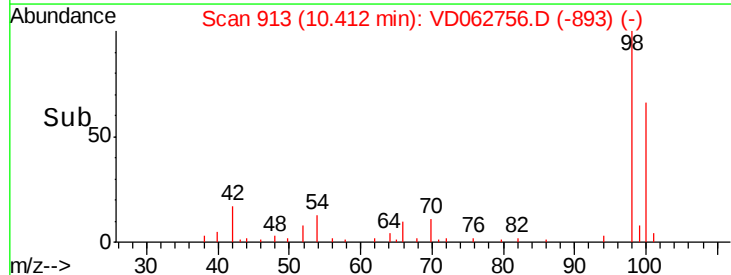
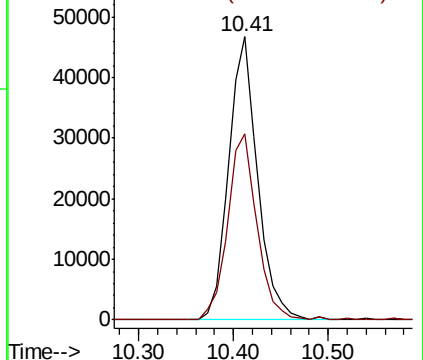
98 100

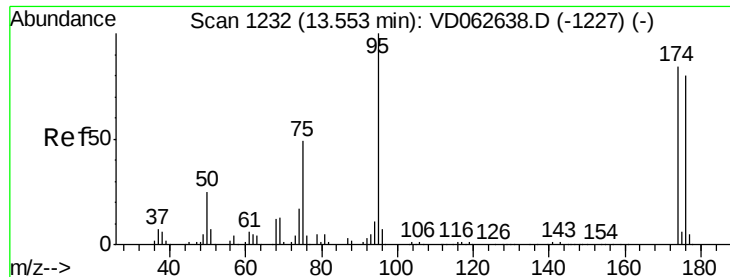
100 65.8 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: 39.271 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

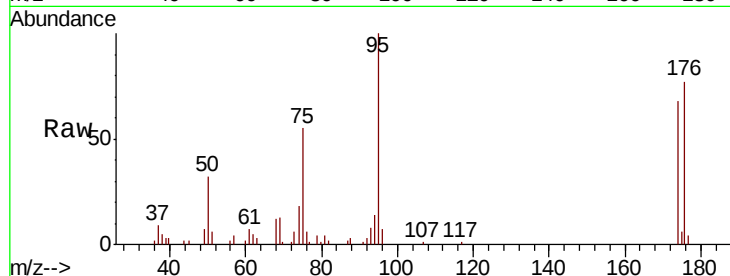
Tot Ion: 95 Resp: 49795

Ion Ratio Lower Upper

95 100

174 67.8 0.0 167.0

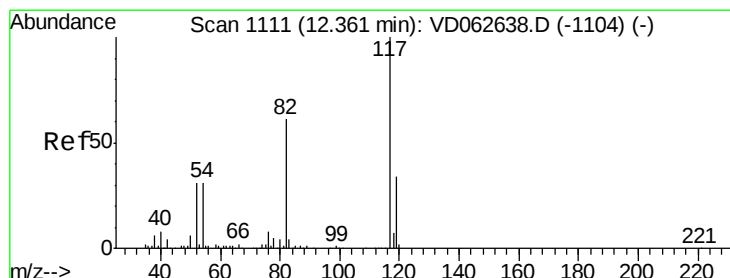
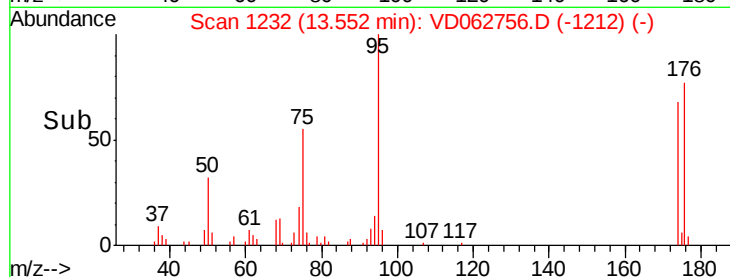
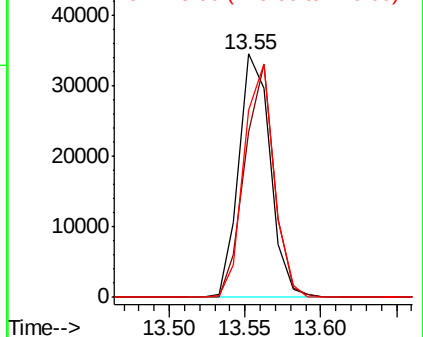
176 76.9 0.0 159.2



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: VD062756.D

Acq: 18 Jun 2019 18:14

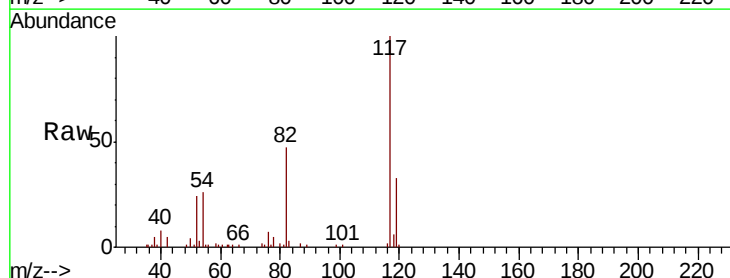
Tgt Ion: 117 Resp: 112193

Ion Ratio Lower Upper

117 100

82 47.3 48.7 73.1#

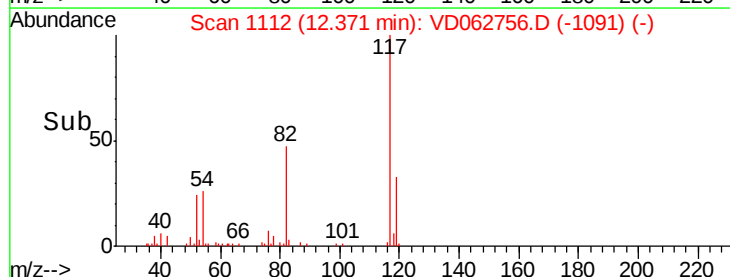
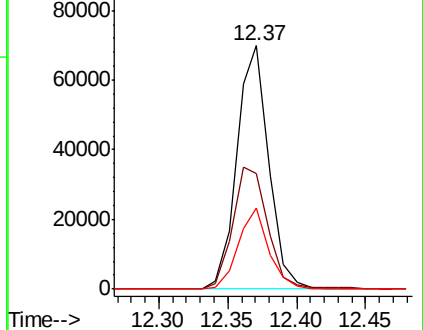
119 33.2 27.0 40.6

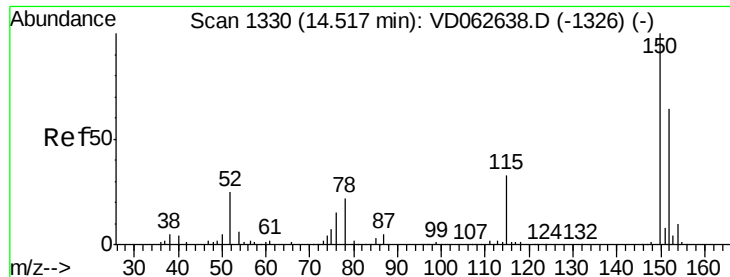


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD062756.D

Acq: 18 Jun 2019 18:14

Instrument :

MSVOA_D

ClientSampleId :

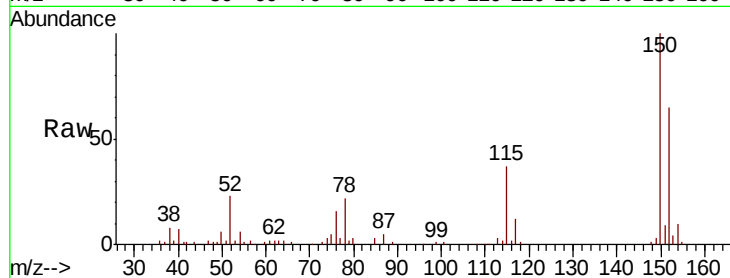
Tot Ion:152 Resp: 69461

Ion Ratio Lower Upper

152 100

115 57.0 30.1 90.5

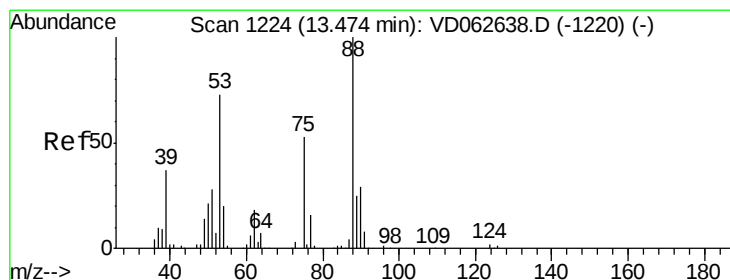
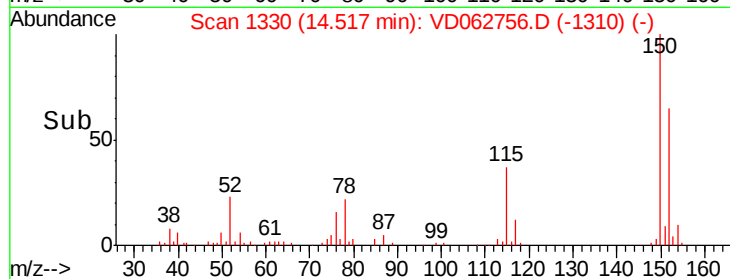
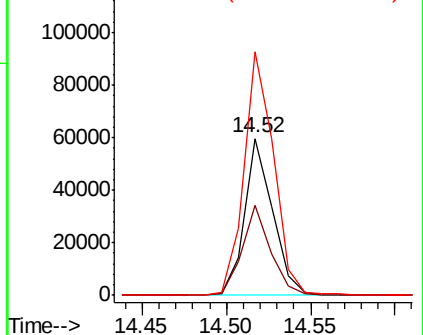
150 154.9 0.0 314.0



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: 86.695 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062756.D

Acq: 18 Jun 2019 18:14

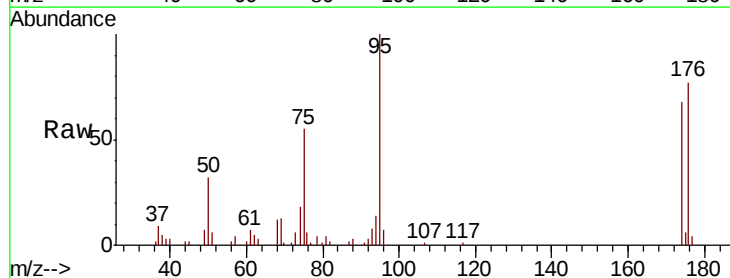
Tgt Ion: 75 Resp: 25080

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

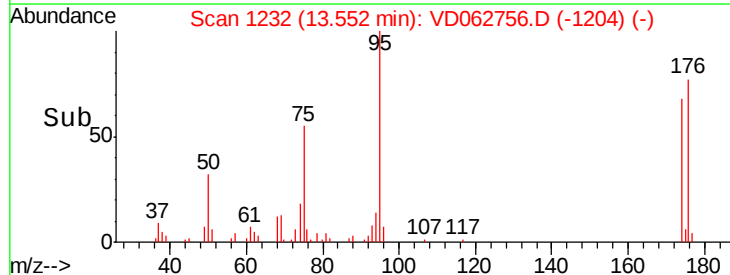
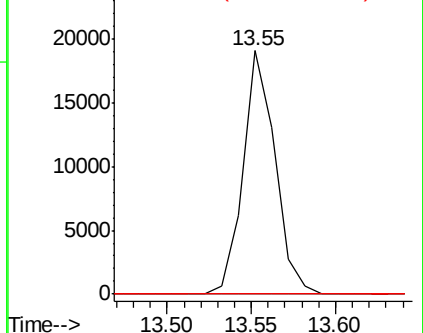
89 0.0 37.0 55.6#

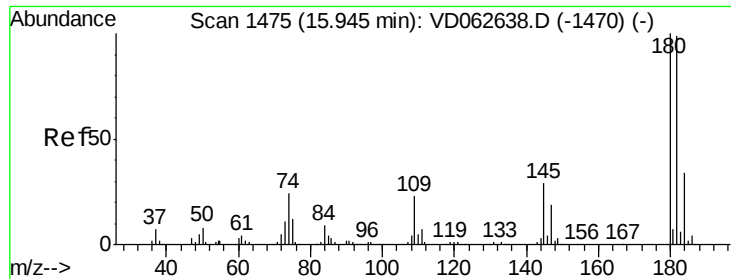


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

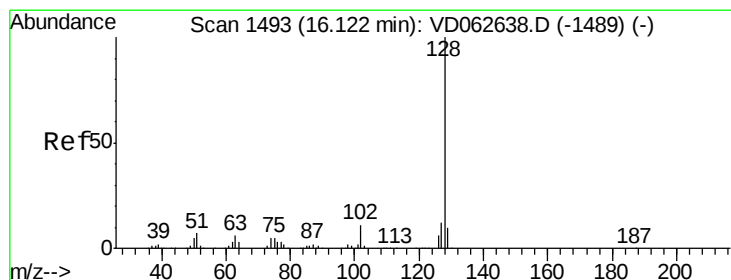
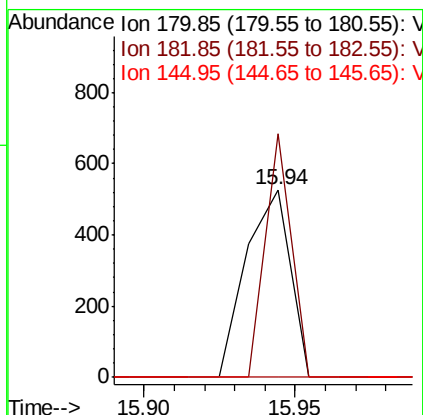
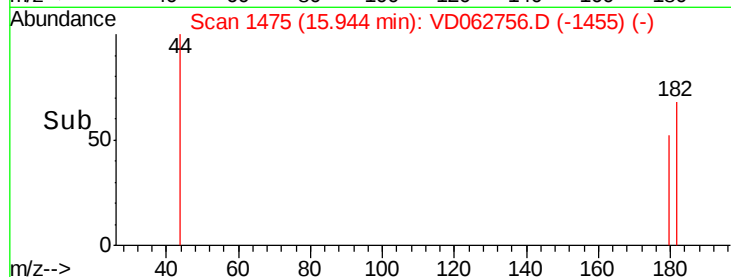
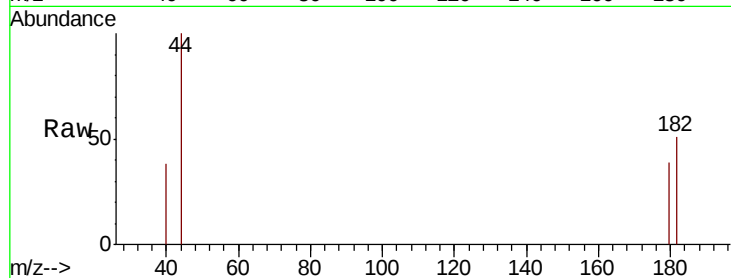




#93
 1,2,4-Trichlorobenzene
 Concen: 3.845 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062756.D
 Acq: 18 Jun 2019 18:14

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 533
 Ion Ratio Lower Upper
 180 100
 182 129.5 49.4 148.2
 145 0.0 14.5 43.6#



#95
 Naphthalene
 Concen: 3.779 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062756.D
 Acq: 18 Jun 2019 18:14

Tgt Ion:128 Resp: 891
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.7 14.5#
 129 0.0 8.1 12.1#

