

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062754.D
 Acq On : 18 Jun 2019 17:19
 Operator : VA/AP
 Sample : K3419-02RE
 Misc : 4.49g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:26:07 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	829329	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	1132268	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	957016	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	523344	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	429379	35.88	ug/l	0.00
Spiked Amount			Recovery	=	71.76%	
35) Dibromofluoromethane	6.93	113	461270	38.63	ug/l	0.00
Spiked Amount			Recovery	=	77.26%	
50) Toluene-d8	10.41	98	895848	35.66	ug/l	0.00
Spiked Amount			Recovery	=	71.32%	
62) 4-Bromofluorobenzene	13.55	95	435554	37.17	ug/l	0.00
Spiked Amount			Recovery	=	74.34%	

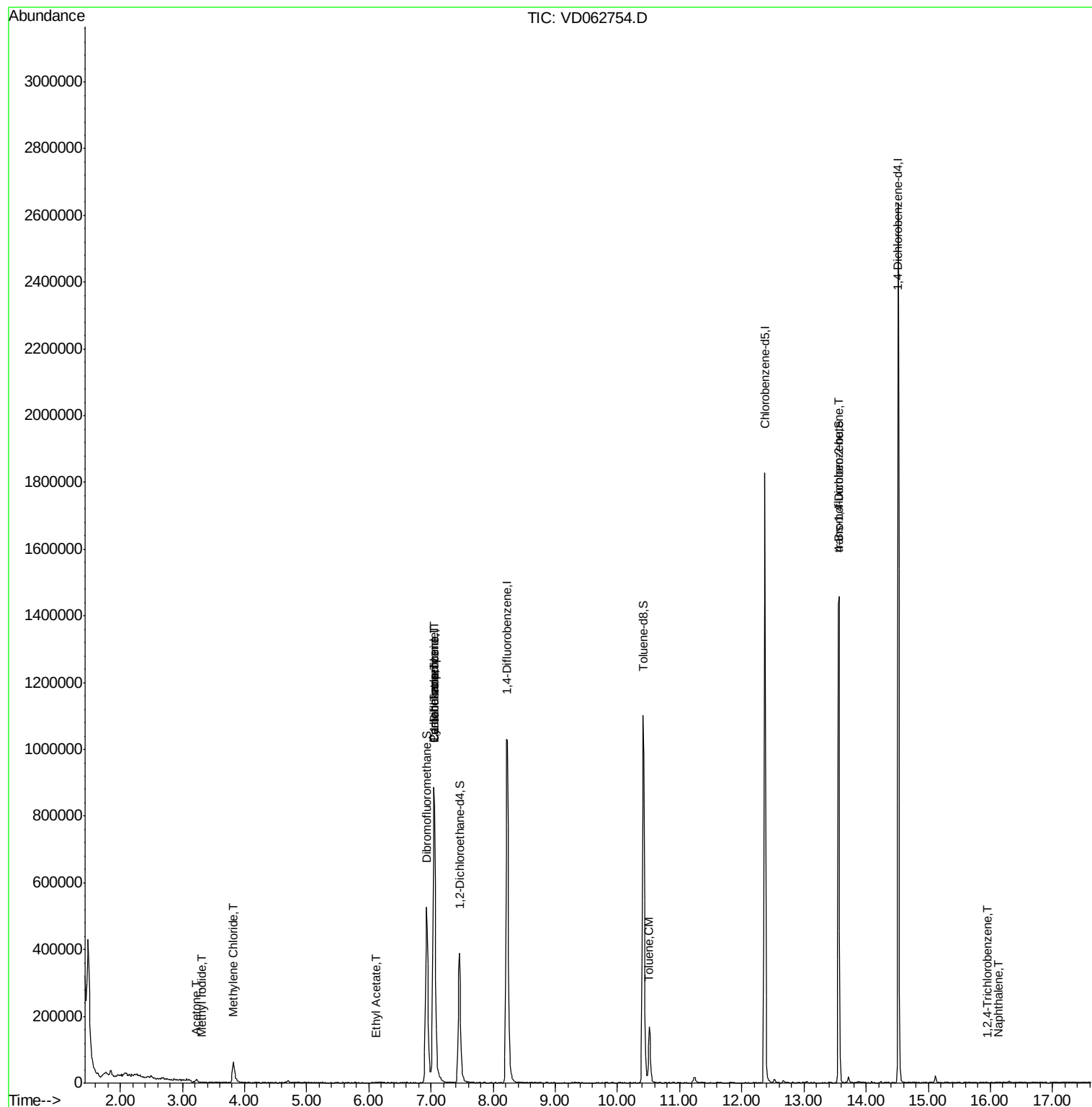
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	470	Below Cal	#	42
10) Methyl Iodide	3.31	142	197	4.021	ug/l #	24
16) Acetone	3.23	43	17584	8.024	ug/l	96
20) Methylene Chloride	3.82	84	39075	4.316	ug/l	96
31) Cyclohexane	7.06	56	18328	1.941	ug/l #	14
36) 1,1-Dichloropropene	7.06	75	66947	5.166	ug/l #	52
37) Ethyl Acetate	6.11	43	453	1.281	ug/l #	74
38) Carbon Tetrachloride	7.06	117	87342	4.264	ug/l #	16
52) Toluene	10.51	92	74406	4.374	ug/l	84
81) trans-1,4-Dichloro-2-buten	13.55	75	219572	100.108	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.94	180	292	3.588	ug/l #	81
95) Naphthalene	16.12	128	2266	3.561	ug/l #	71

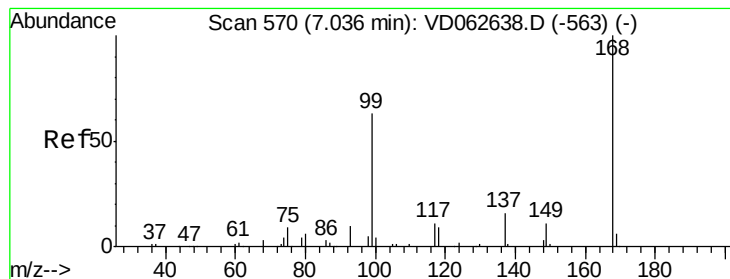
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD062754.D

Acq: 18 Jun 2019 17:19

Instrument :

MSVOA_D

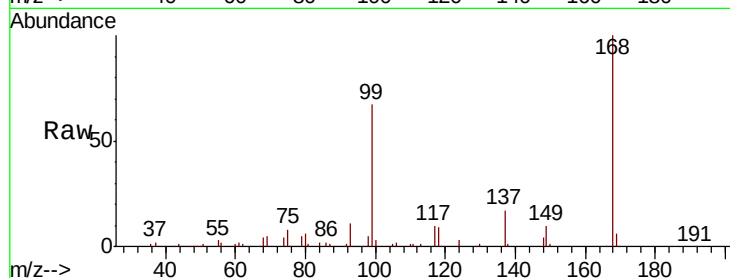
ClientSampleId :

Tot Ion:168 Resp: 829329

Ion Ratio Lower Upper

168 100

99 66.8 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

300000

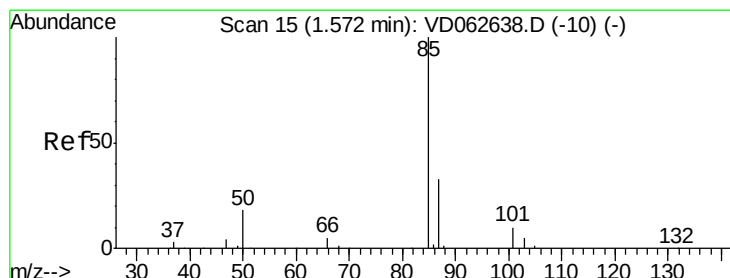
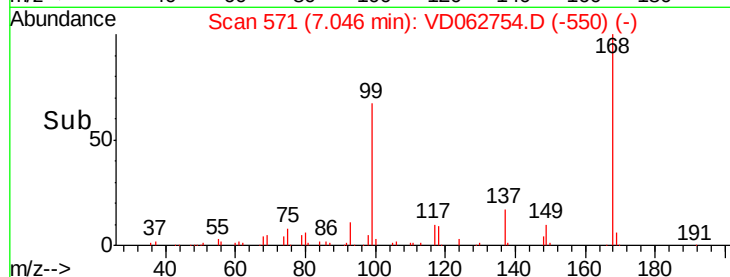
200000

100000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062754.D

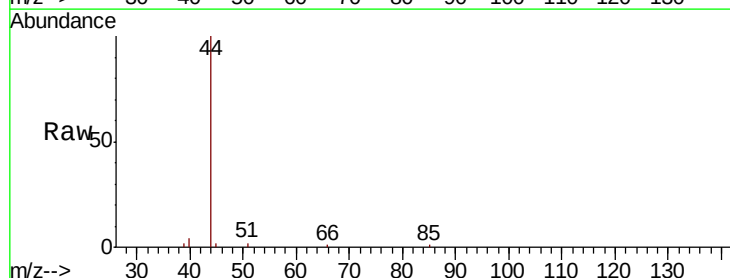
Acq: 18 Jun 2019 17:19

Tgt Ion: 85 Resp: 470

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

1.58

500

400

300

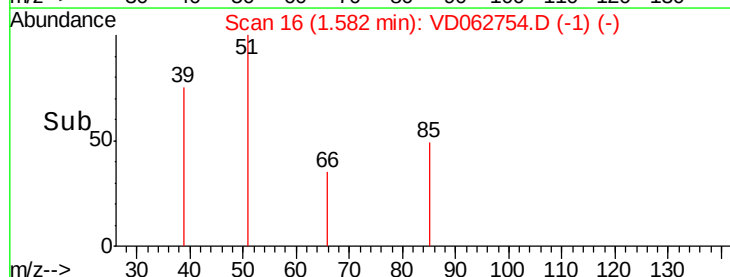
200

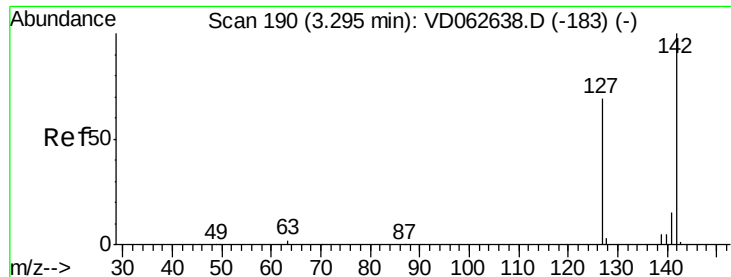
100

0

1.54 1.56 1.58 1.60

Time-->

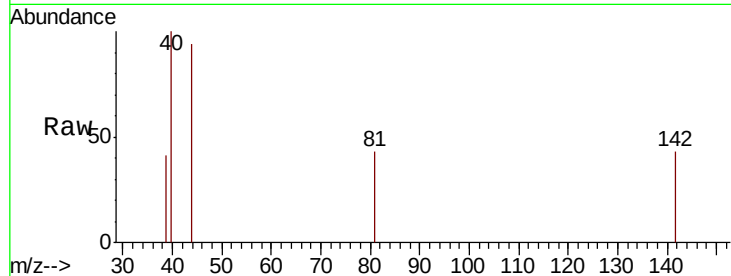




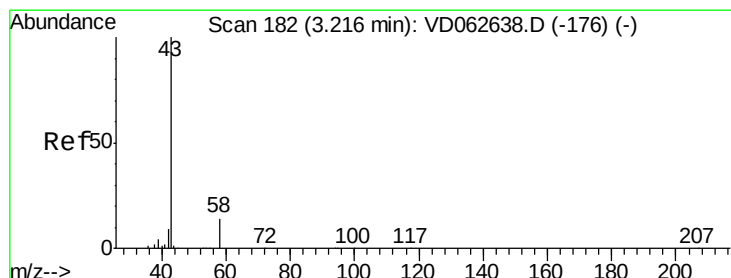
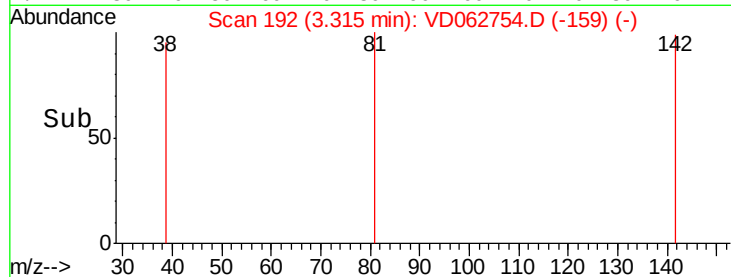
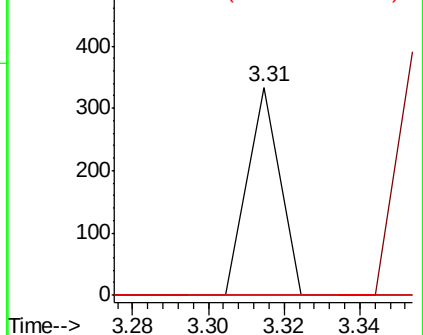
#10
Methyl Iodide
Concen: 4.021 ug/l
RT: 3.31 min Scan# 192
Delta R.T. 0.02 min
Lab File: VD062754.D
Acq: 18 Jun 2019 17:19

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:142 Resp: 197
Ion Ratio Lower Upper
142 100
127 0.0 55.2 82.8#
141 0.0 12.1 18.1#

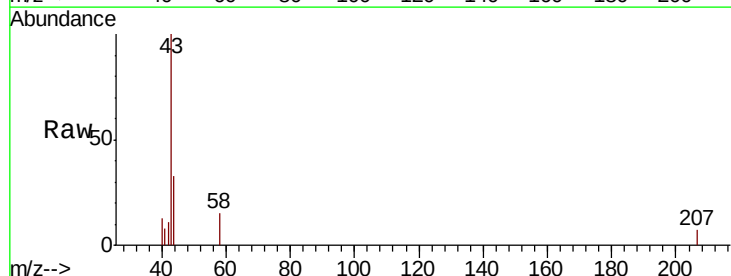


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

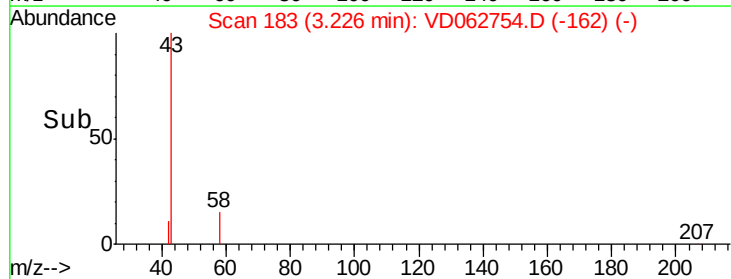
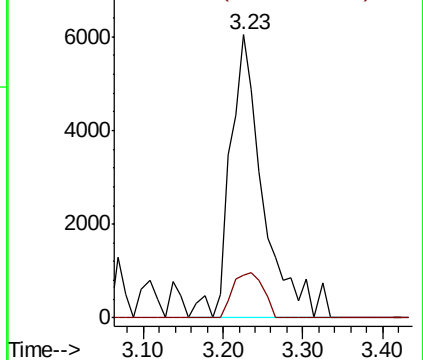


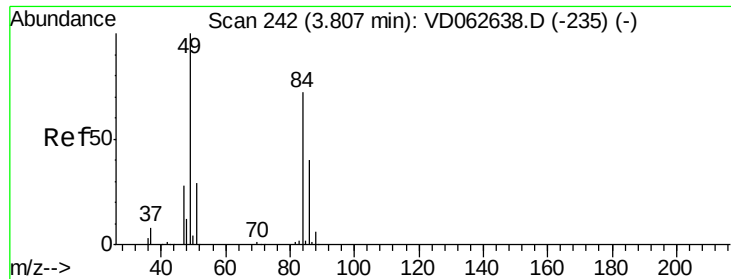
#16
Acetone
Concen: 8.024 ug/l
RT: 3.23 min Scan# 183
Delta R.T. 0.01 min
Lab File: VD062754.D
Acq: 18 Jun 2019 17:19

Tgt Ion: 43 Resp: 17584
Ion Ratio Lower Upper
43 100
58 15.1 10.8 16.2



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

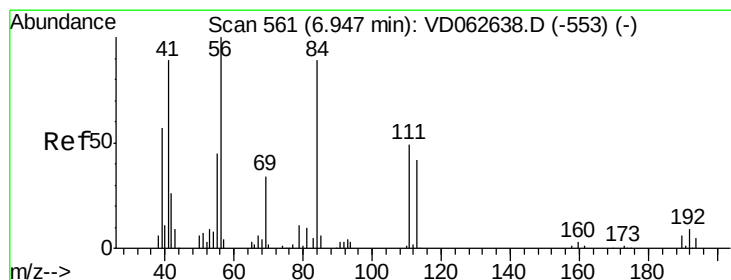
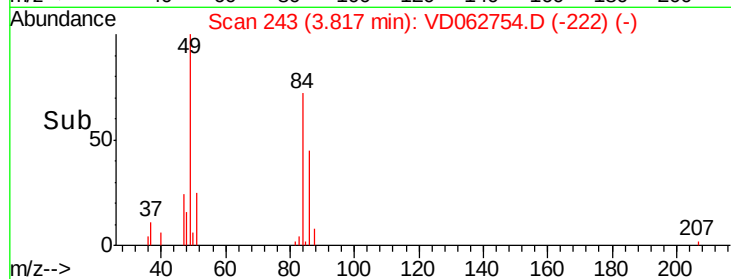
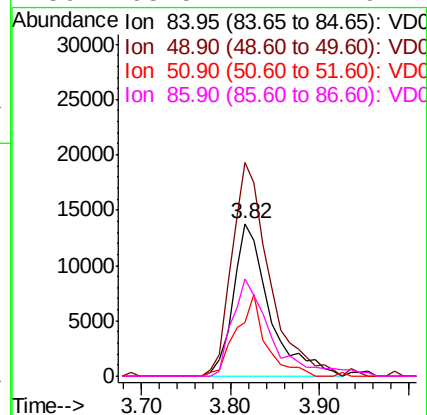
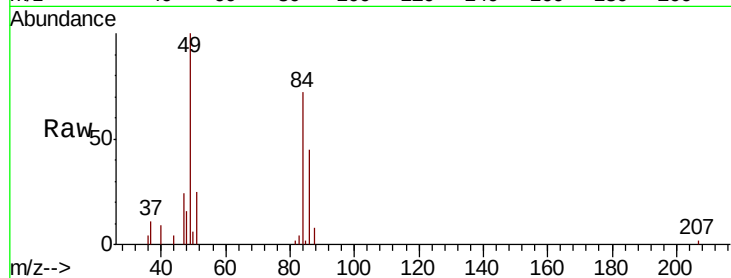




#20
Methylene Chloride
Concen: 4.316 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.01 min
Lab File: VD062754.D
Acq: 18 Jun 2019 17:19

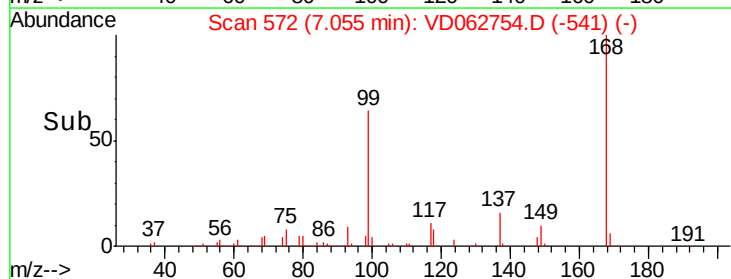
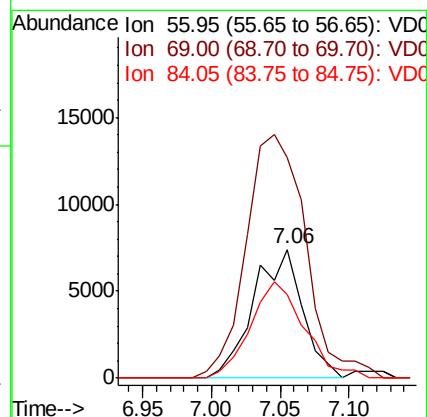
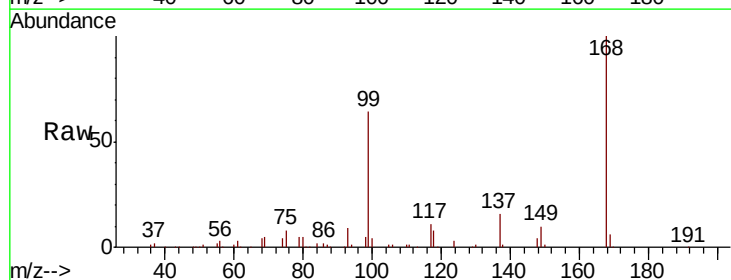
Instrument :
MSVOA_D
ClientSampled :

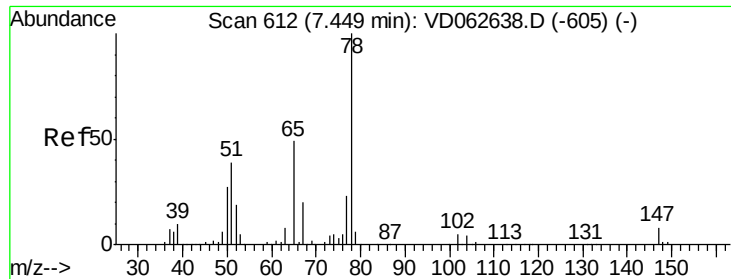
Tot Ion:	84	Resp:	39075
Ion	Ratio	Lower	Upper
84	100		
49	139.7	111.2	166.8
51	35.5	31.9	47.9
86	63.5	44.7	67.1



#31
Cyclohexane
Concen: 1.941 ug/l
RT: 7.06 min Scan# 572
Delta R.T. 0.11 min
Lab File: VD062754.D
Acq: 18 Jun 2019 17:19

Tgt Ion:	56	Resp:	18328
Ion	Ratio	Lower	Upper
56	100		
69	171.2	26.8	40.2#
84	64.7	73.9	110.9#

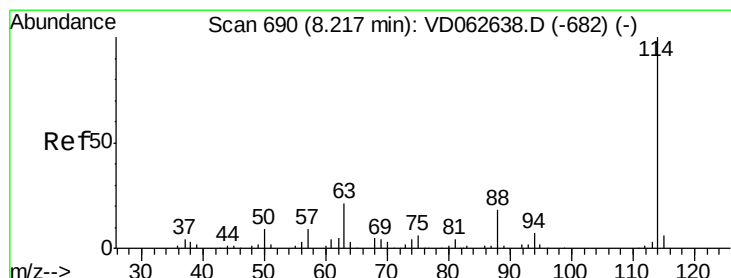
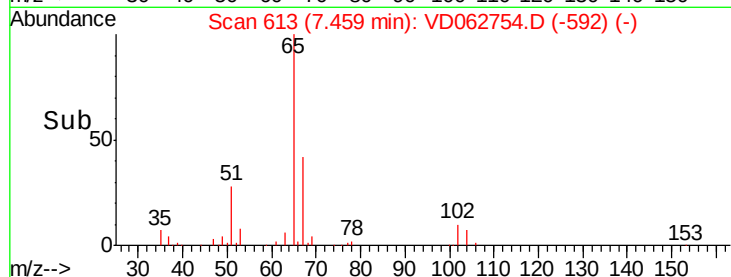
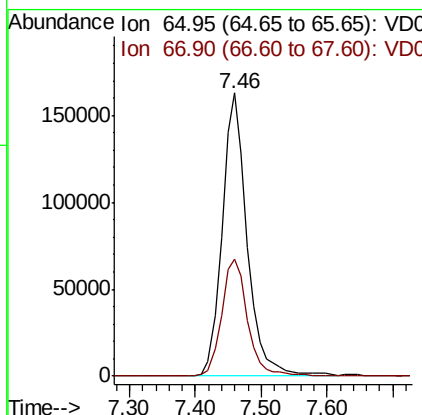
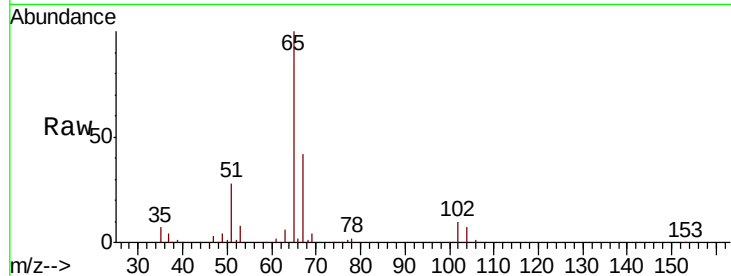




#33
 1,2-Dichloroethane-d4
 Concen: 35.880 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.01 min
 Lab File: VD062754.D
 Acq: 18 Jun 2019 17:19

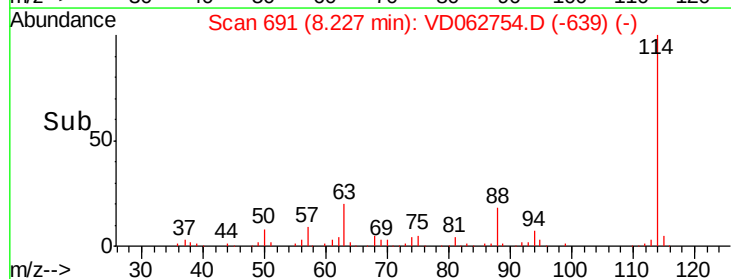
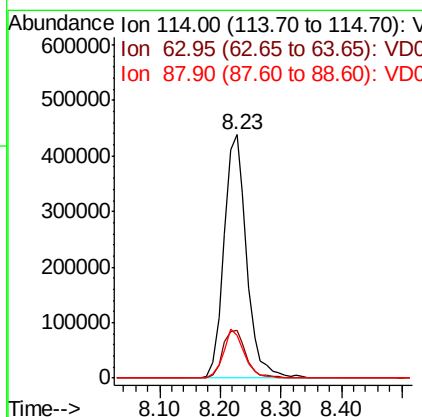
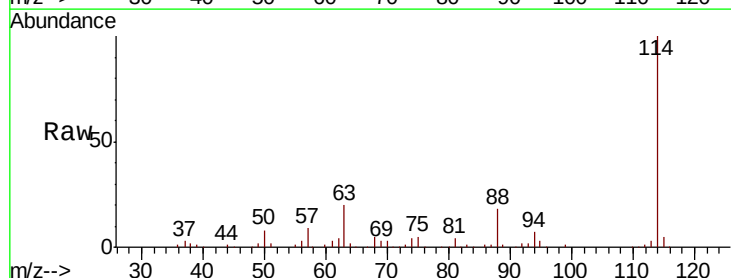
Instrument :
 MSVOA_D
 ClientSampleId :

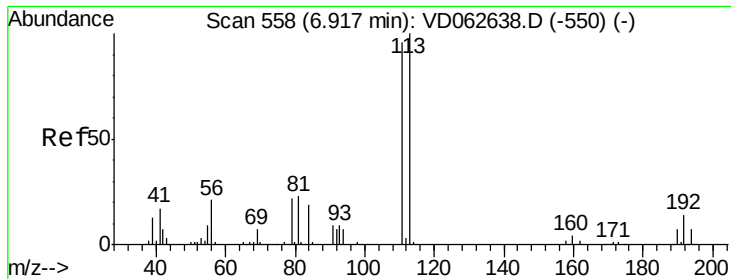
Tot Ion: 65 Resp: 429379
 Ion Ratio Lower Upper
 65 100
 67 41.5 0.0 81.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.01 min
 Lab File: VD062754.D
 Acq: 18 Jun 2019 17:19

Tgt Ion: 114 Resp: 1132268
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 42.4
 88 17.5 0.0 36.8





#35

Dibromofluoromethane

Concen: 38.628 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062754.D

Acq: 18 Jun 2019 17:19

Instrument :

MSVOA_D

ClientSampleId :

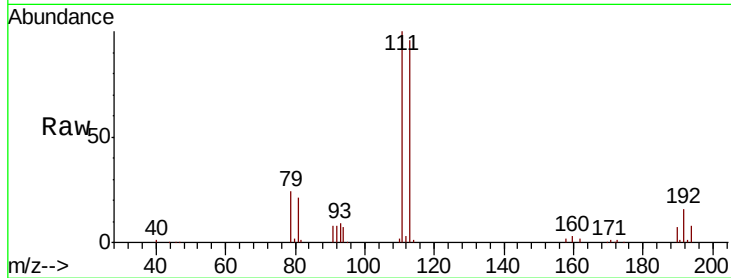
Tot Ion:113 Resp: 461270

Ion Ratio Lower Upper

113 100

111 104.5 76.4 114.6

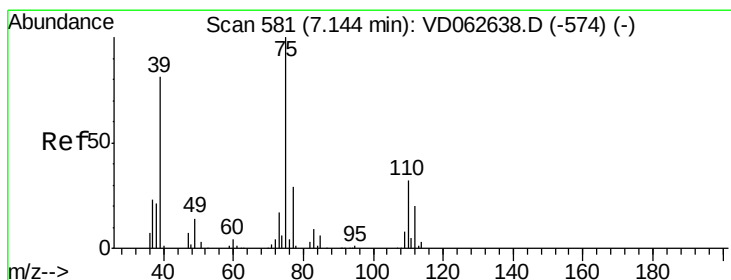
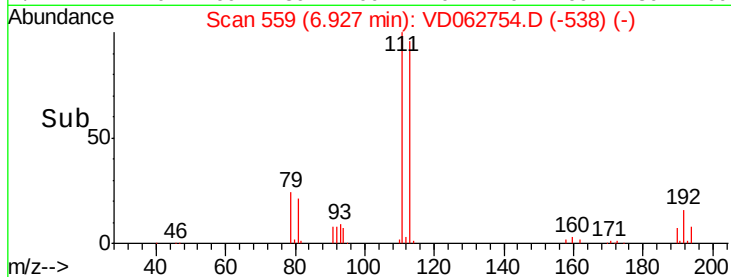
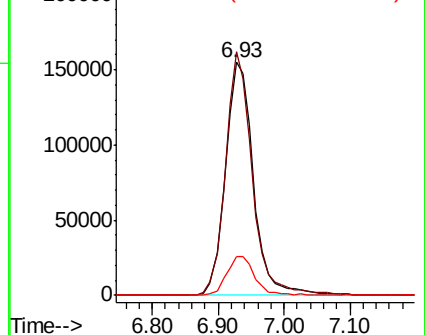
192 16.5 11.4 17.0



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: 5.166 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.09 min

Lab File: VD062754.D

Acq: 18 Jun 2019 17:19

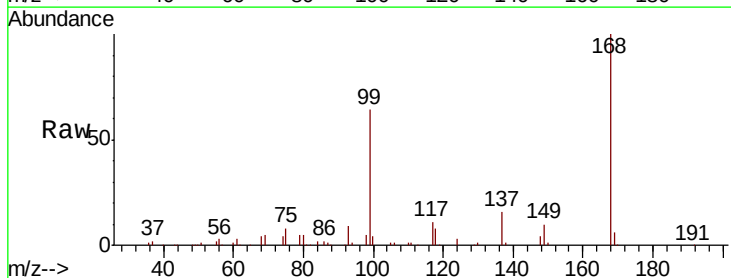
Tgt Ion: 75 Resp: 66947

Ion Ratio Lower Upper

75 100

110 8.2 15.9 47.7#

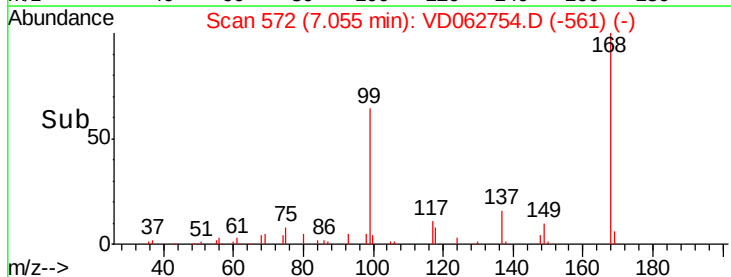
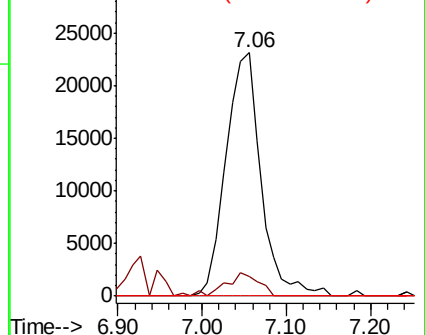
77 0.0 23.3 34.9#

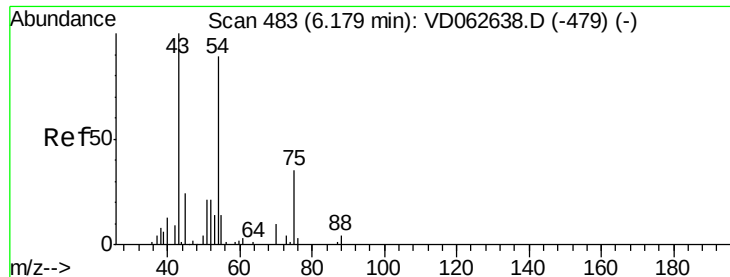


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 1.281 ug/l

RT: 6.11 min Scan# 476

Delta R.T. -0.07 min

Lab File: VD062754.D

Acq: 18 Jun 2019 17:19

Instrument :

MSVOA_D

ClientSampleId :

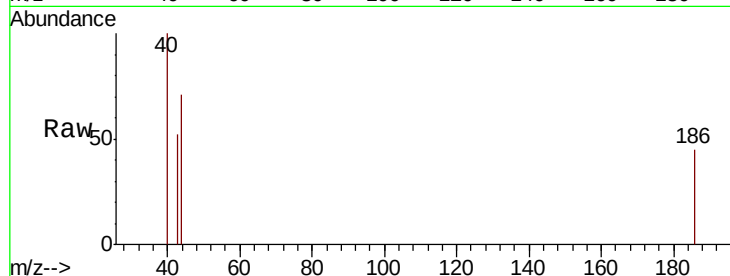
Tot Ion: 43 Resp: 453

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): VD062638.D (-479) (-)

Ion 60.95 (60.65 to 61.65): VD062638.D (-479) (-)

Ion 70.00 (69.70 to 70.70): VD062638.D (-479) (-)

6.11

400

300

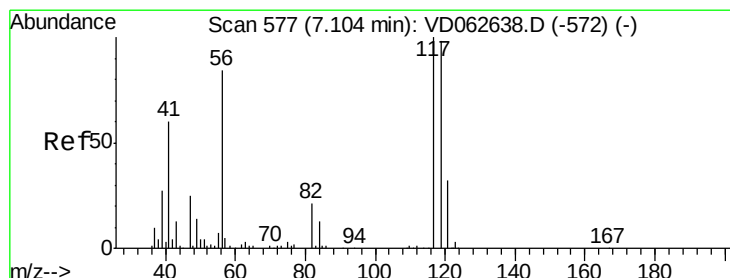
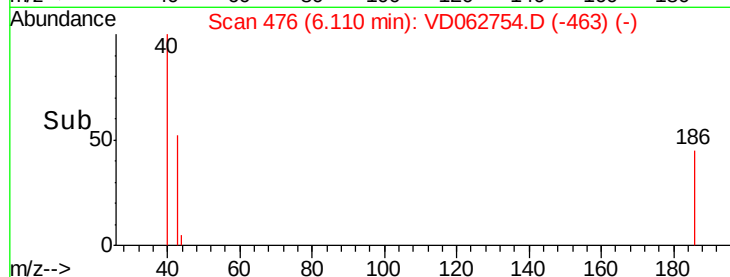
200

100

0

6.08 6.10 6.12 6.14

Time-->



#38

Carbon Tetrachloride

Concen: 4.264 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.05 min

Lab File: VD062754.D

Acq: 18 Jun 2019 17:19

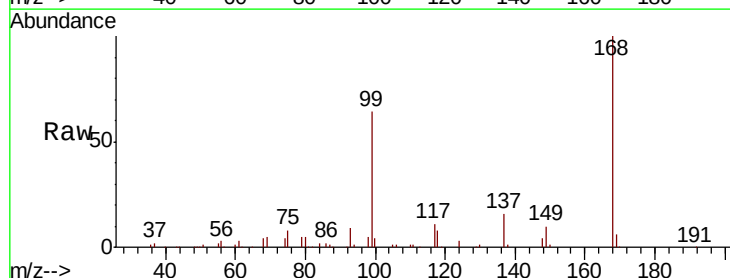
Tgt Ion: 117 Resp: 87342

Ion Ratio Lower Upper

117 100

119 3.0 73.5 110.3#

121 0.0 24.2 36.4#



Abundance Ion 116.85 (116.55 to 117.55): VD062638.D (-572) (-)

Ion 118.85 (118.55 to 119.55): VD062638.D (-572) (-)

Ion 120.85 (120.55 to 121.55): VD062638.D (-572) (-)

7.06

40000

30000

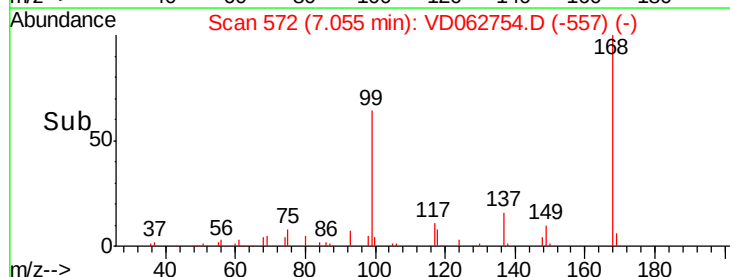
20000

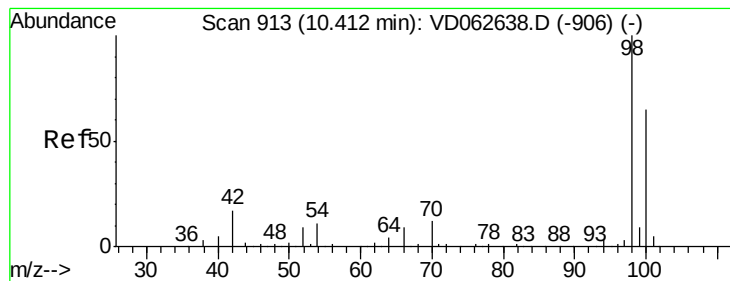
10000

0

6.90 7.00 7.10 7.20

Time-->





#50

Toluene-d8

Concen: 35.662 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.00 min

Lab File: VD062754.D

Acq: 18 Jun 2019 17:19

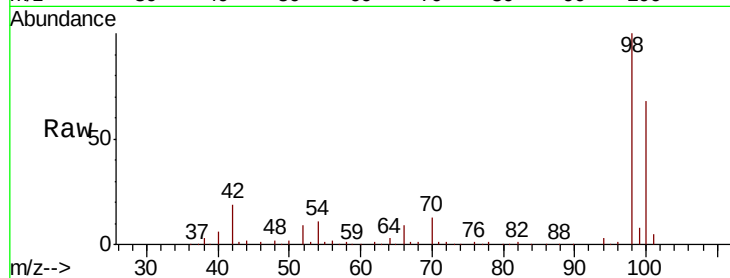
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 895848

Ion Ratio Lower Upper

98 100

100 68.0 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

400000

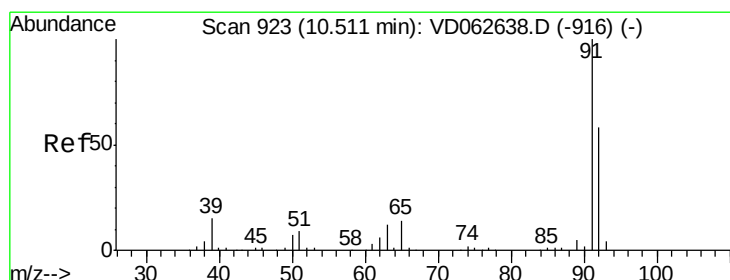
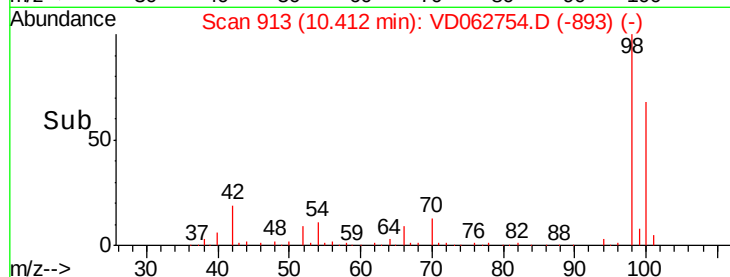
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 4.374 ug/l

RT: 10.51 min Scan# 923

Delta R.T. 0.00 min

Lab File: VD062754.D

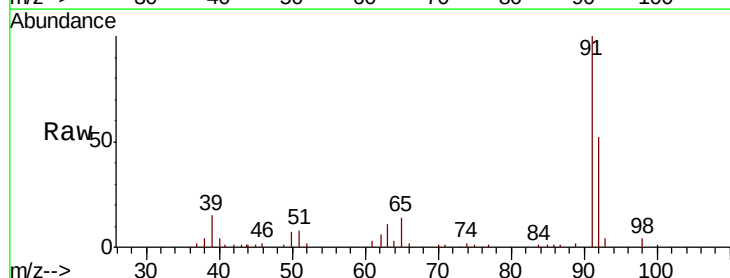
Acq: 18 Jun 2019 17:19

Tgt Ion: 92 Resp: 74406

Ion Ratio Lower Upper

92 100

91 192.7 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VD062638.D (-916) (-)

Ion 91.00 (90.70 to 91.70): VD062638.D (-916) (-)

10.51

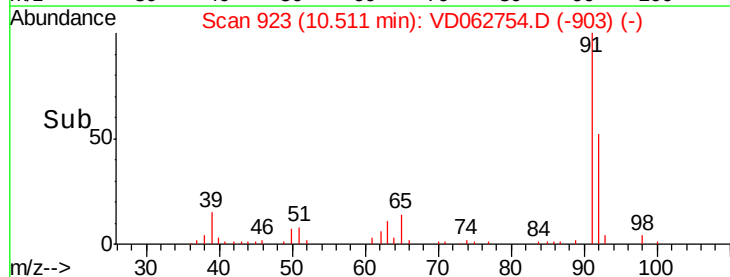
60000

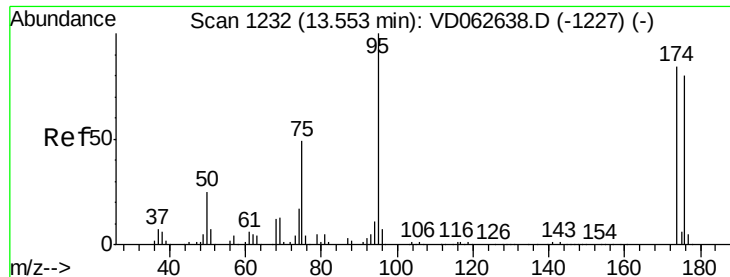
40000

20000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 37.165 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062754.D

Acq: 18 Jun 2019 17:19

Instrument :

MSVOA_D

ClientSampleId :

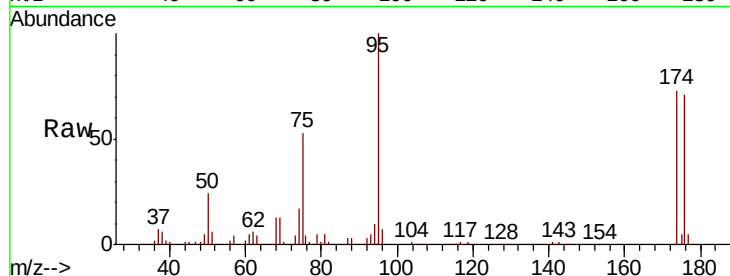
Tot Ion: 95 Resp: 435554

Ion Ratio Lower Upper

95 100

174 73.4 0.0 167.0

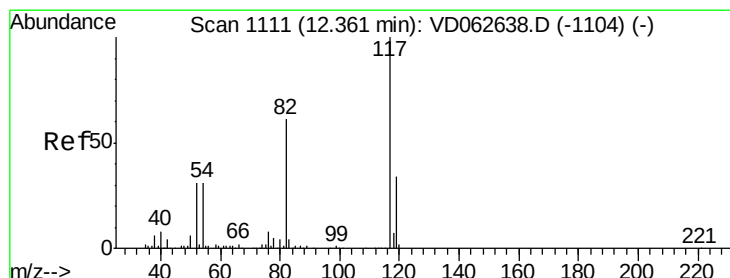
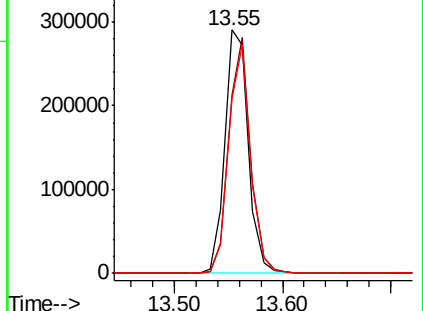
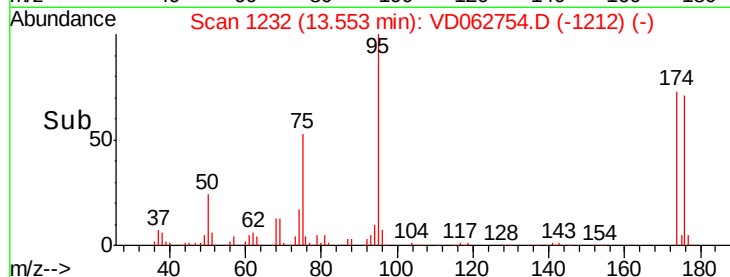
176 71.4 0.0 159.2



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: VD062754.D

Acq: 18 Jun 2019 17:19

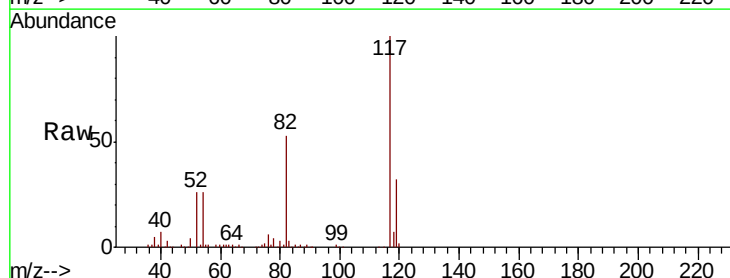
Tgt Ion: 117 Resp: 957016

Ion Ratio Lower Upper

117 100

82 52.9 48.7 73.1

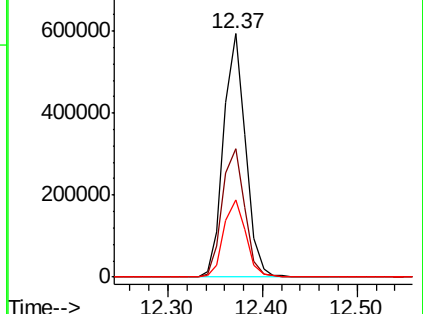
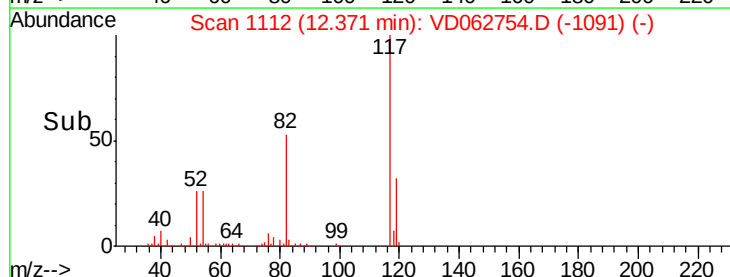
119 31.9 27.0 40.6

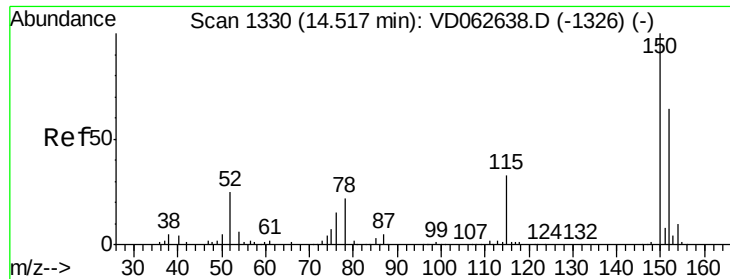


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

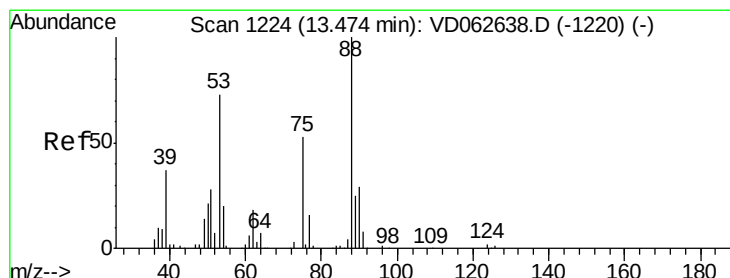
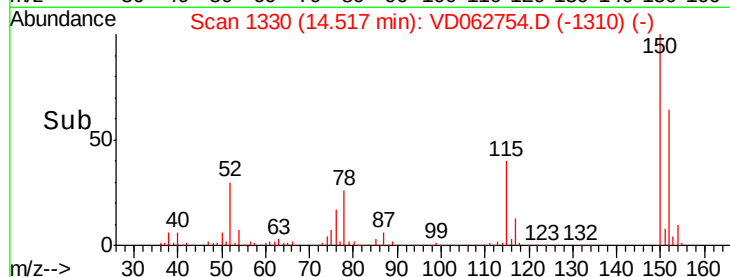
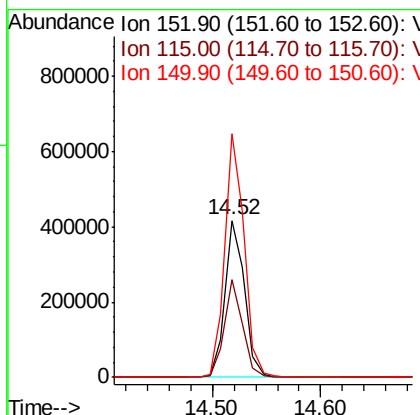
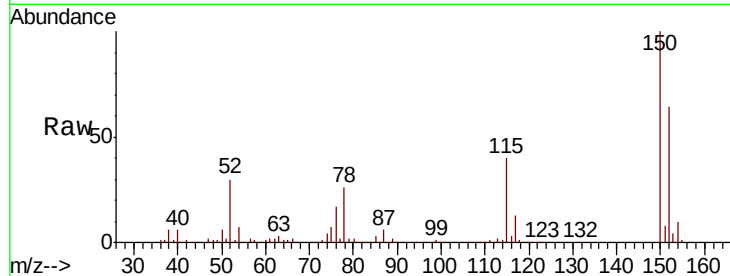




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1330
 Delta R.T. 0.00 min
 Lab File: VD062754.D
 Acq: 18 Jun 2019 17:19

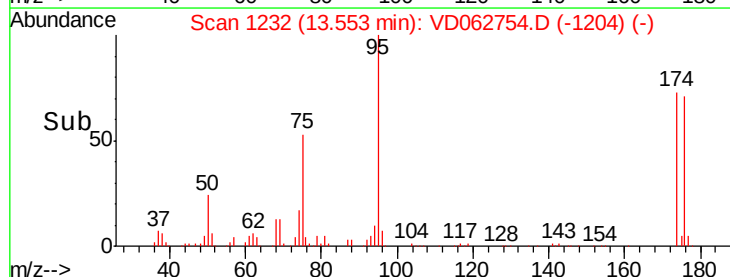
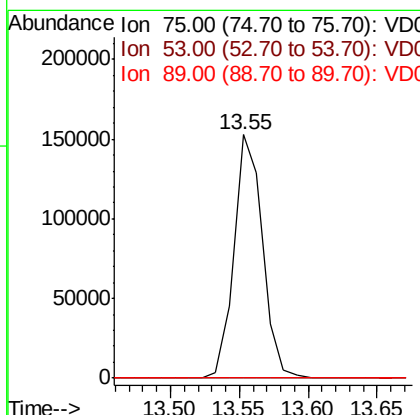
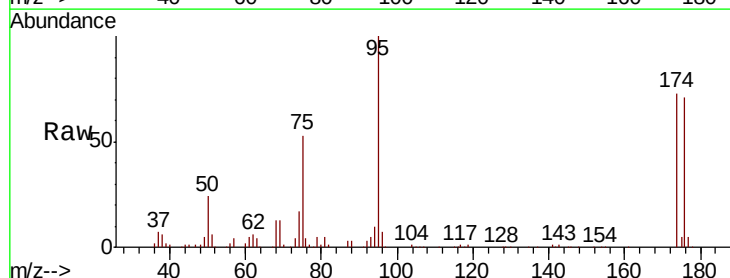
Instrument :
 MSVOA_D
 ClientSampleId :

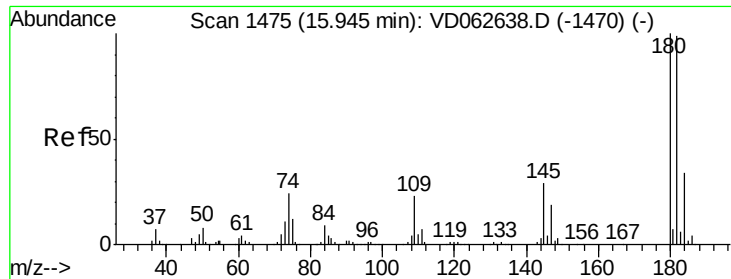
Tot Ion:152 Resp: 523344
 Ion Ratio Lower Upper
 152 100
 115 62.0 30.1 90.5
 150 155.3 0.0 314.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.108 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.08 min
 Lab File: VD062754.D
 Acq: 18 Jun 2019 17:19

Tgt Ion: 75 Resp: 219572
 Ion Ratio Lower Upper
 75 100
 53 0.0 109.4 164.2#
 89 0.0 37.0 55.6#

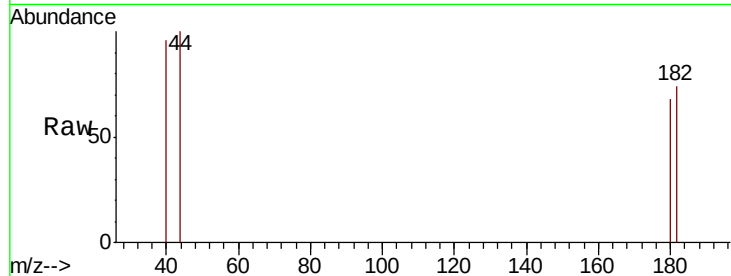




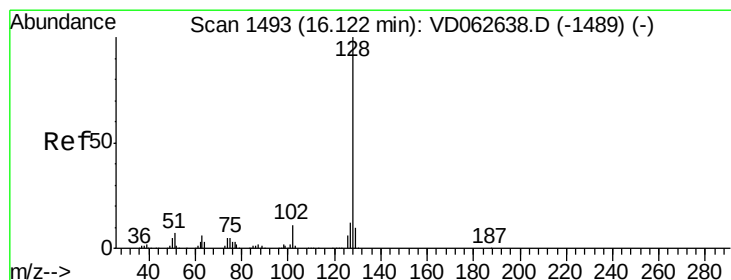
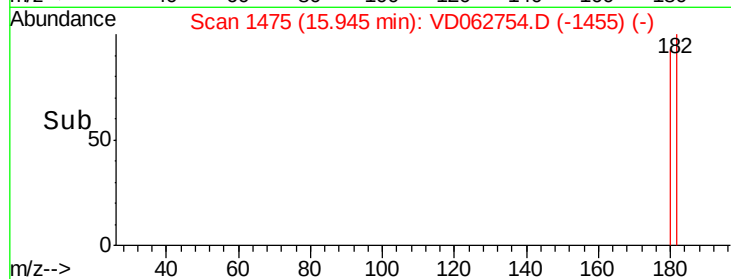
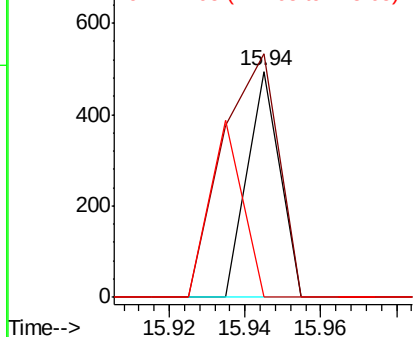
#93
 1,2,4-Trichlorobenzene
 Concen: 3.588 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062754.D
 Acq: 18 Jun 2019 17:19

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 292
 Ion Ratio Lower Upper
 180 100
 182 107.9 49.4 148.2
 145 0.0 14.5 43.6#

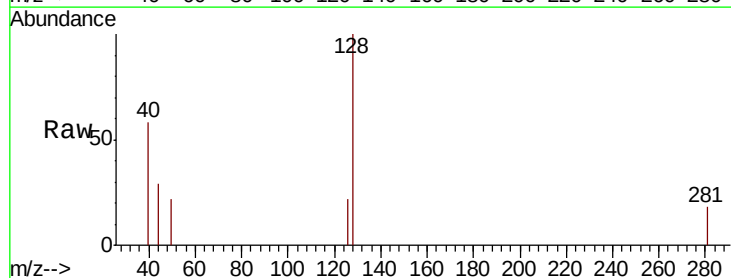


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 3.561 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VD062754.D
 Acq: 18 Jun 2019 17:19

Tgt Ion:128 Resp: 2266
 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

