

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052119\
 Data File : VD062481.D
 Acq On : 21 May 2019 15:16
 Operator : VA/AP
 Sample : K2943-06
 Misc : 6.19g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 22 01:44:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	477823	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	697141	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	569181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	307045	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	206710	40.41	ug/l	0.00
Spiked Amount			Recovery	=	80.82%	
35) Dibromofluoromethane	6.92	113	248194	39.46	ug/l	-0.02
Spiked Amount			Recovery	=	78.92%	
50) Toluene-d8	10.41	98	495619	36.01	ug/l	-0.02
Spiked Amount			Recovery	=	72.02%	
62) 4-Bromofluorobenzene	13.56	95	229648	38.14	ug/l	0.00
Spiked Amount			Recovery	=	76.28%	

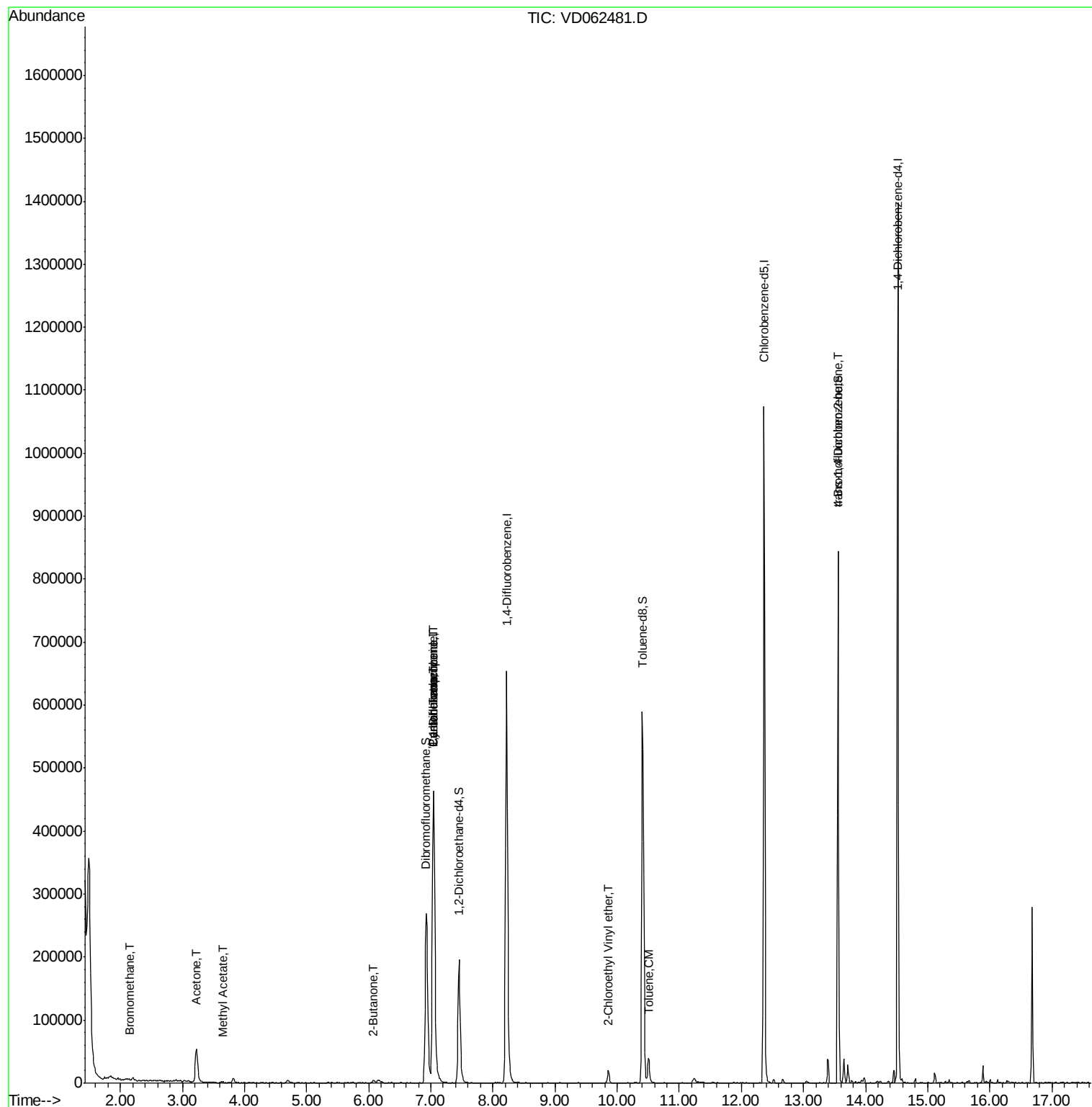
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	184	Below Cal	#	42
5) Bromomethane	2.16	94	2525	1.680	ug/l #	12
16) Acetone	3.22	43	115511	126.027	ug/l #	89
18) Methyl Acetate	3.65	43	3713	2.348	ug/l #	53
20) Methylene Chloride	3.82	84	4660	Below Cal	#	87
25) 2-Butanone	6.07	43	9761	10.182	ug/l	98
31) Cyclohexane	7.04	56	10365	2.146	ug/l #	12
36) 1,1-Dichloropropene	7.05	75	36234	5.436	ug/l #	46
38) Carbon Tetrachloride	7.04	117	47889	4.834	ug/l #	15
52) Toluene	10.51	92	19895	2.223	ug/l	92
58) 2-Chloroethyl Vinyl ether	9.86	63	9786	5.877	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.56	75	97871	95.953	ug/l #	16

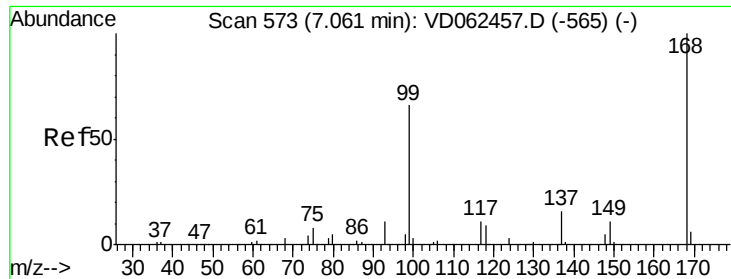
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.01 min

Lab File: VD062481.D

Acq: 21 May 2019 15:16

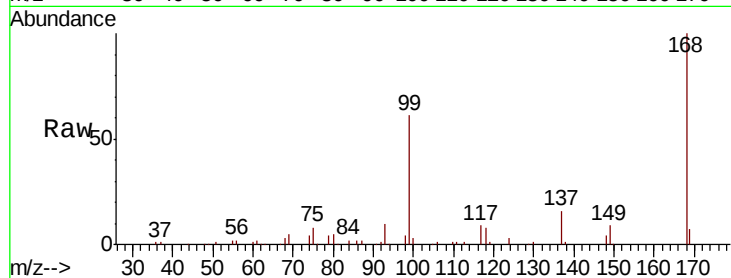
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 477823

Ion Ratio Lower Upper

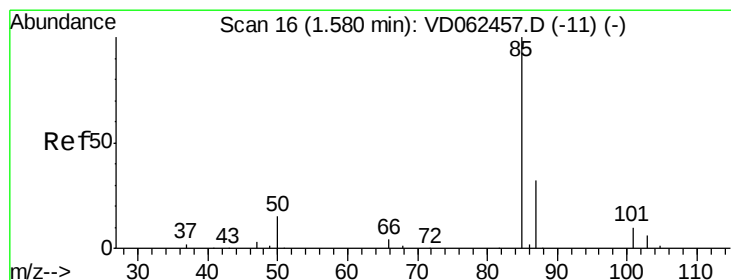
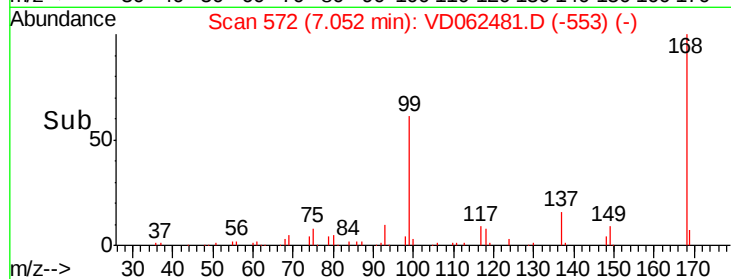
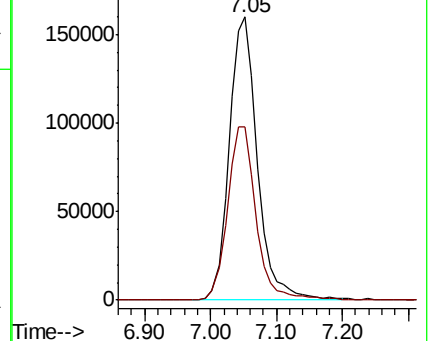
168 100

99 61.1 46.5 69.7



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: 1.57 min Scan# 15

Delta R.T. -0.01 min

Lab File: VD062481.D

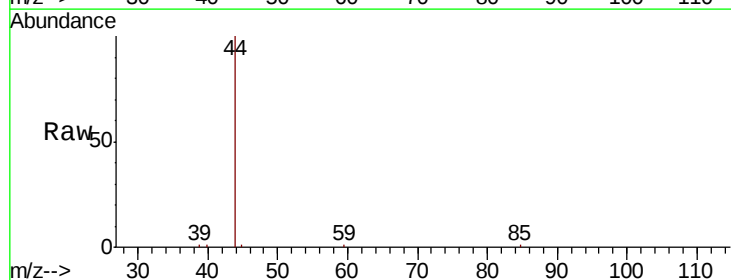
Acq: 21 May 2019 15:16

Tgt Ion: 85 Resp: 184

Ion Ratio Lower Upper

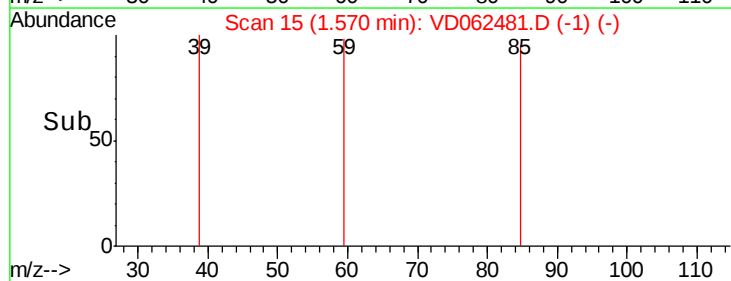
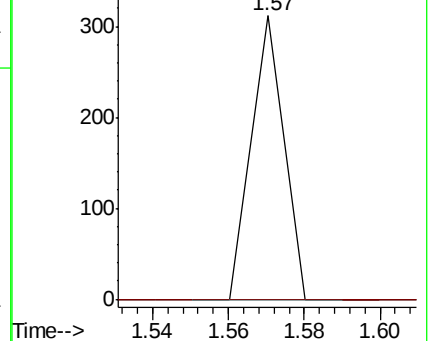
85 100

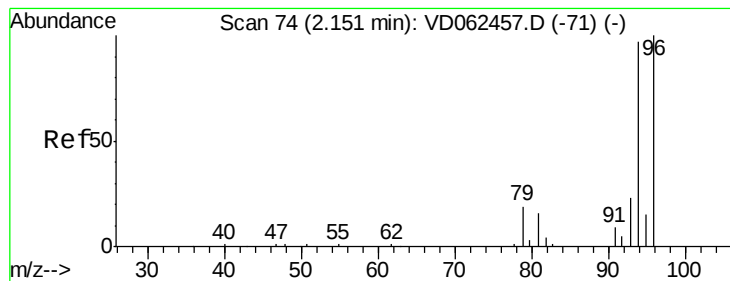
87 0.0 16.2 48.6#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: 1.680 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.01 min

Lab File: VD062481.D

Acq: 21 May 2019 15:16

Instrument :

MSVOA_D

ClientSampleId :

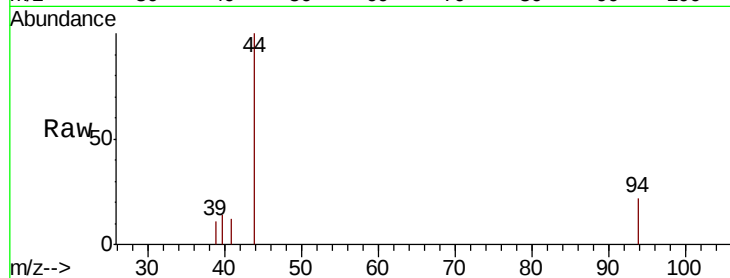
Tot Ion: 94 Resp: 2525

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

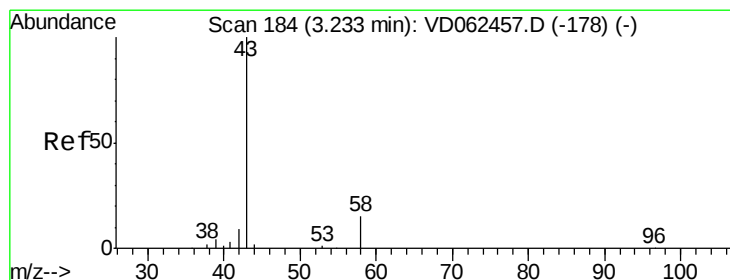
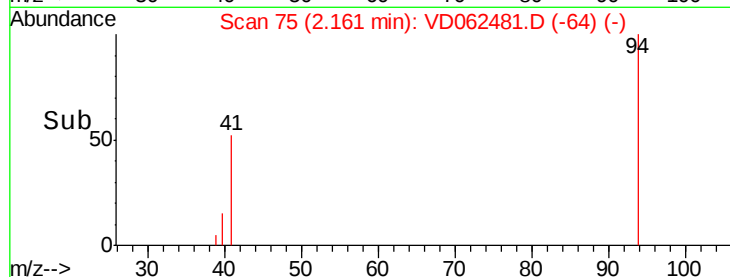
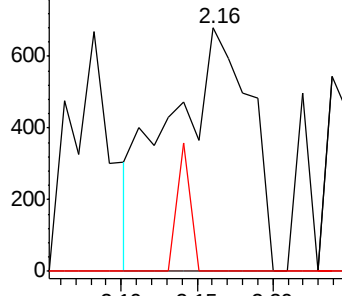
93 0.0 18.5 27.7#



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



#16

Acetone

Concen: 126.027 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD062481.D

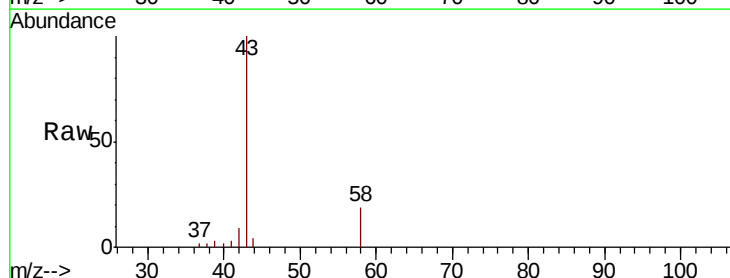
Acq: 21 May 2019 15:16

Tgt Ion: 43 Resp: 115511

Ion Ratio Lower Upper

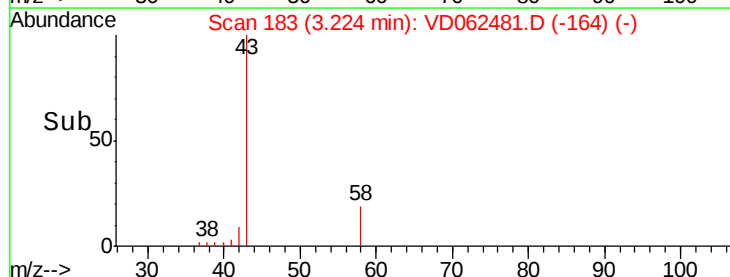
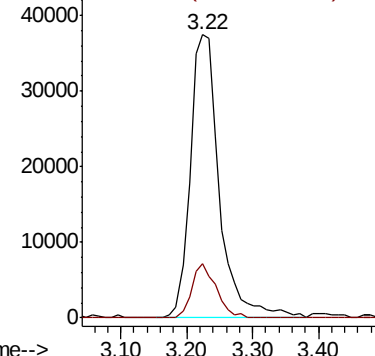
43 100

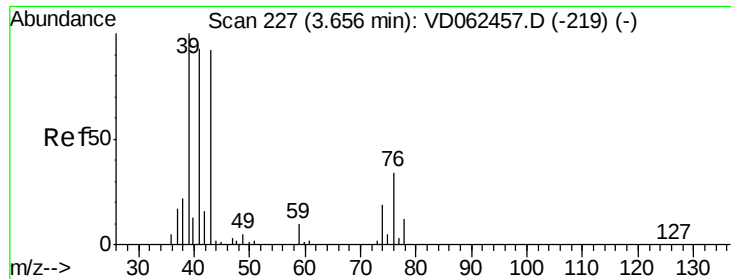
58 19.2 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

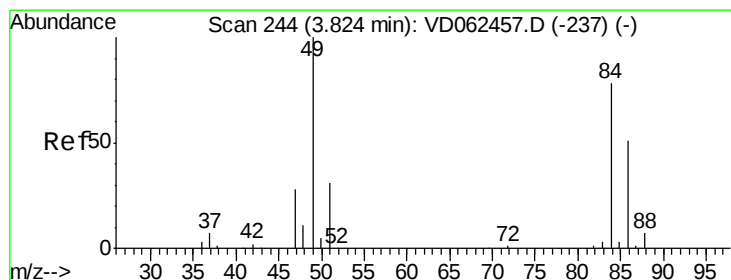
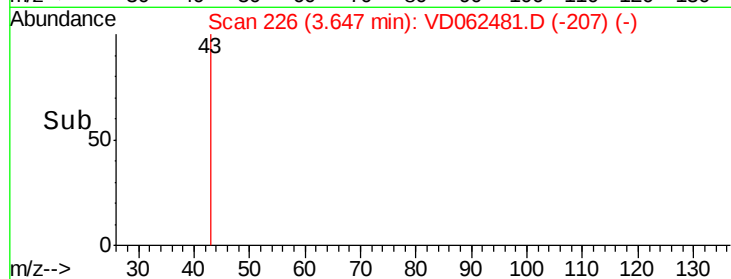
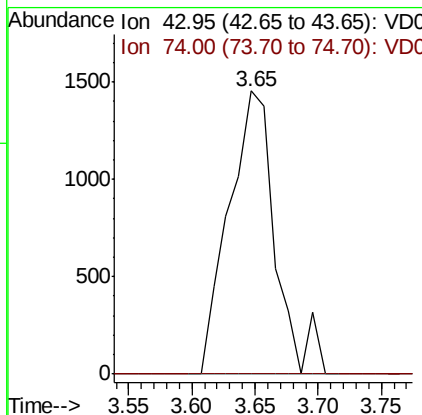
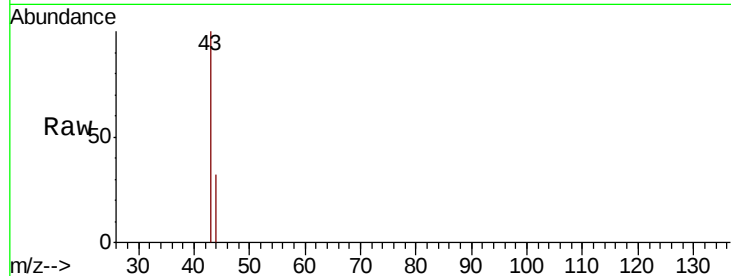




#18
Methyl Acetate
Concen: 2.348 ug/l
RT: 3.65 min Scan# 226
Delta R.T. -0.01 min
Lab File: VD062481.D
Acq: 21 May 2019 15:16

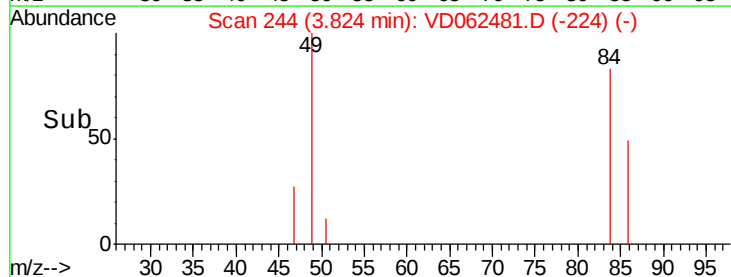
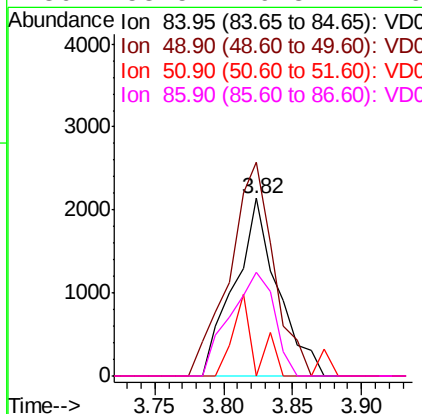
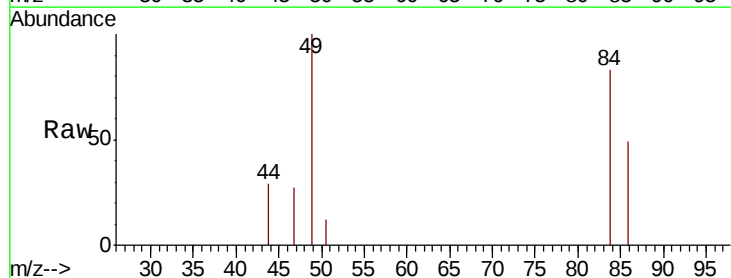
Instrument :
MSVOA_D
ClientSampleId :

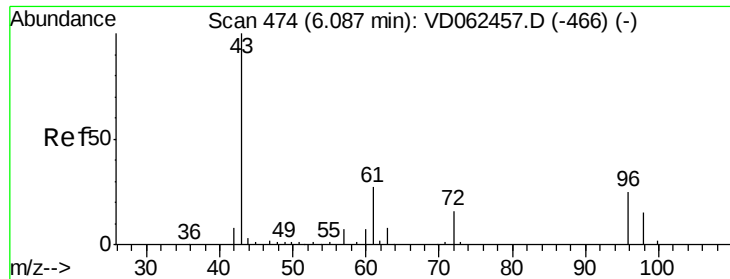
Tot Ion: 43 Resp: 3713
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.82 min Scan# 244
Delta R.T. 0.00 min
Lab File: VD062481.D
Acq: 21 May 2019 15:16

Tgt Ion: 84 Resp: 4660
Ion Ratio Lower Upper
84 100
49 120.2 94.0 141.0
51 0.0 29.0 43.4#
86 58.5 49.8 74.6





#25

2-Butanone

Concen: 10.182 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.02 min

Lab File: VD062481.D

Acq: 21 May 2019 15:16

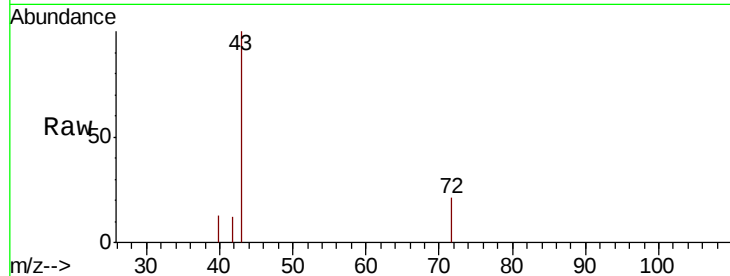
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 9761

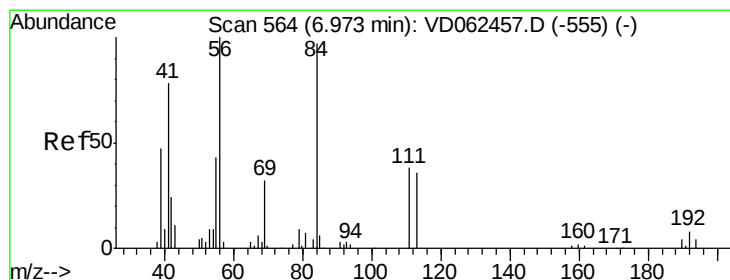
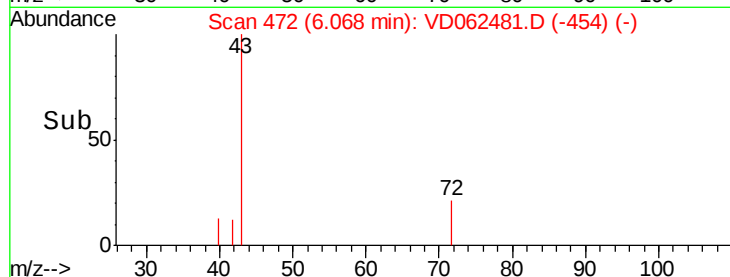
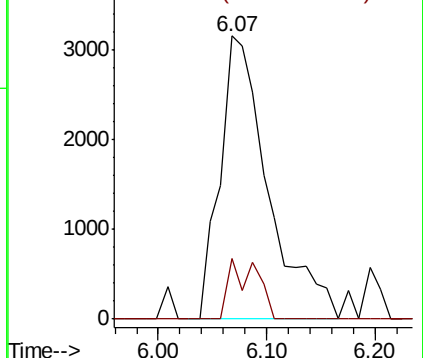
Ion Ratio Lower Upper

43 100

72 21.3 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#31

Cyclohexane

Concen: 2.146 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.07 min

Lab File: VD062481.D

Acq: 21 May 2019 15:16

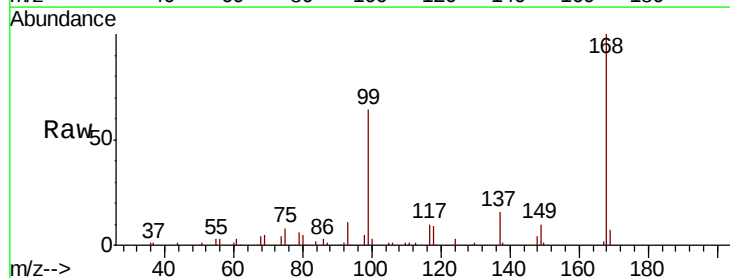
Tgt Ion: 56 Resp: 10365

Ion Ratio Lower Upper

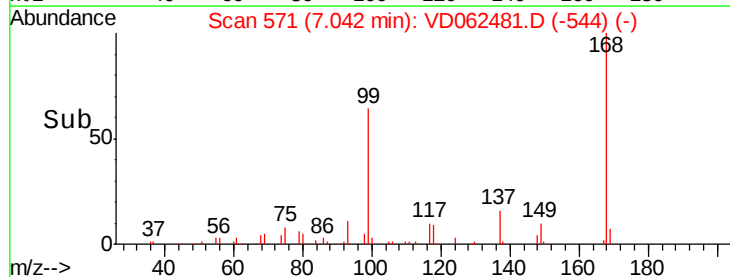
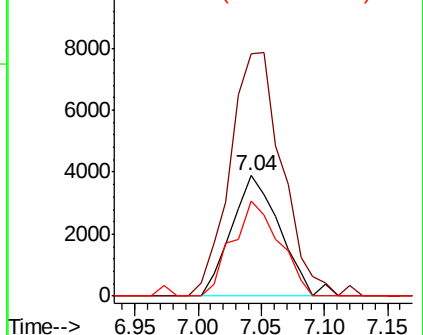
56 100

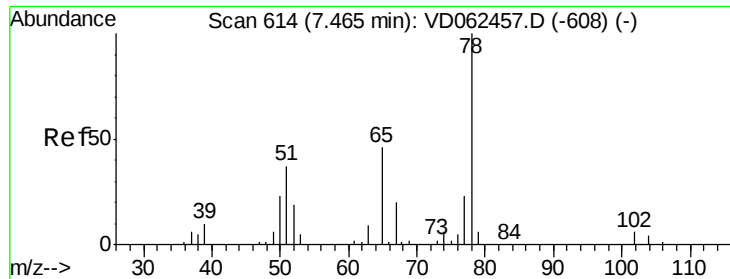
69 200.9 25.8 38.6#

84 78.7 72.2 108.4



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: 40.414 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.01 min

Lab File: VD062481.D

Acq: 21 May 2019 15:16

Instrument :

MSVOA_D

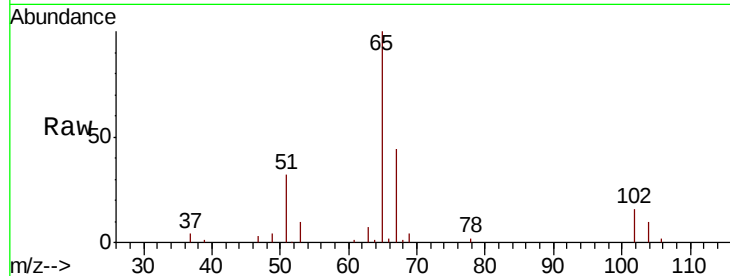
ClientSampleId :

Tot Ion: 65 Resp: 206710

Ion Ratio Lower Upper

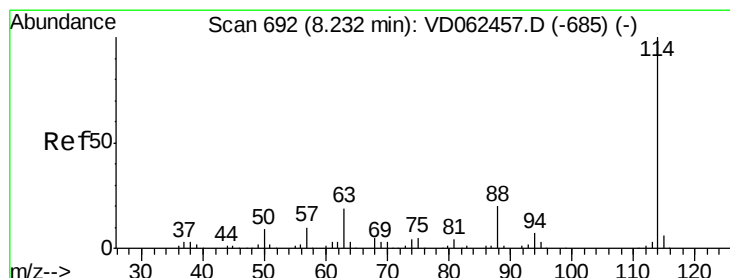
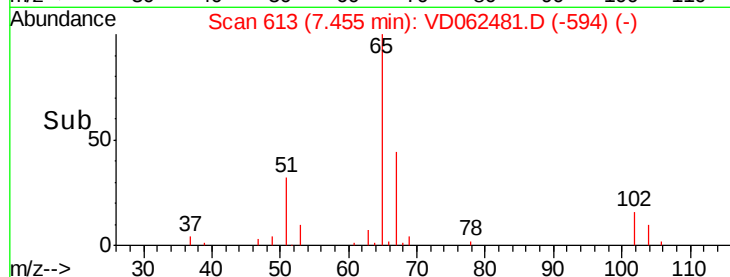
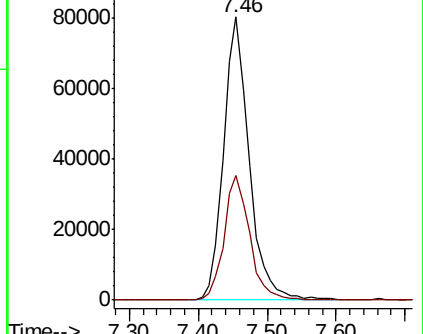
65 100

67 44.1 0.0 98.0



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# 691

Delta R.T. -0.01 min

Lab File: VD062481.D

Acq: 21 May 2019 15:16

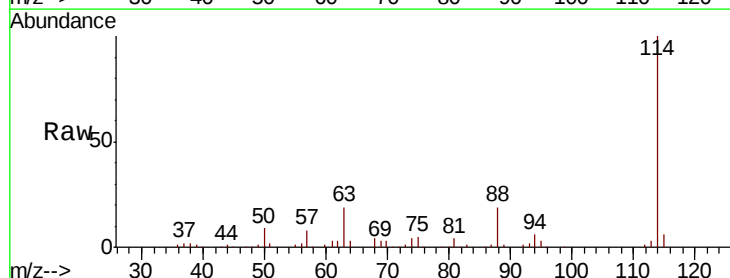
Tgt Ion: 114 Resp: 697141

Ion Ratio Lower Upper

114 100

63 18.7 0.0 32.4

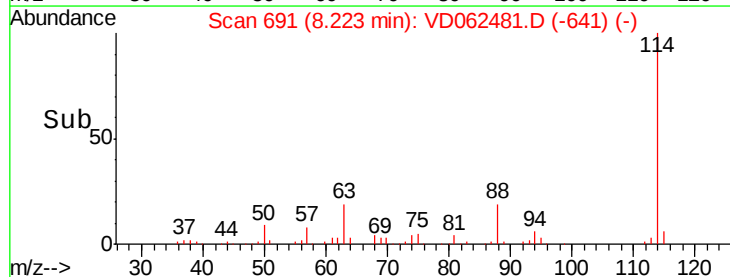
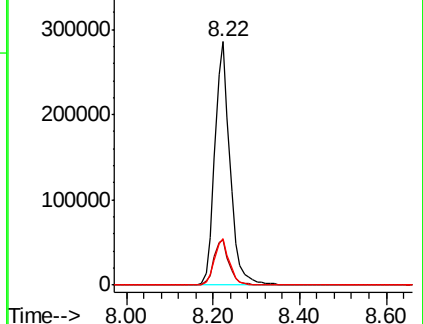
88 18.8 0.0 33.6

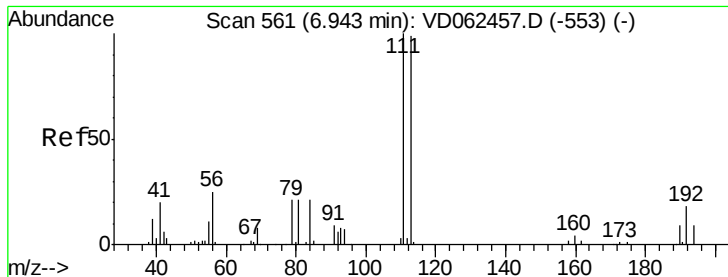


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 39.464 ug/l

RT: 6.92 min Scan# 559

Delta R.T. -0.02 min

Lab File: VD062481.D

Acq: 21 May 2019 15:16

Instrument :

MSVOA_D

ClientSampleId :

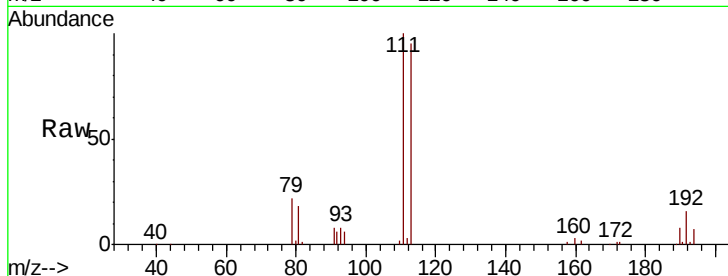
Tot Ion:113 Resp: 248194

Ion Ratio Lower Upper

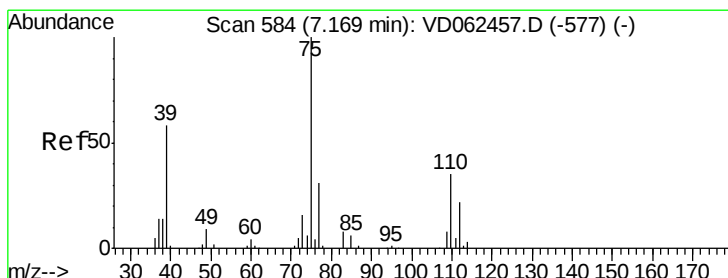
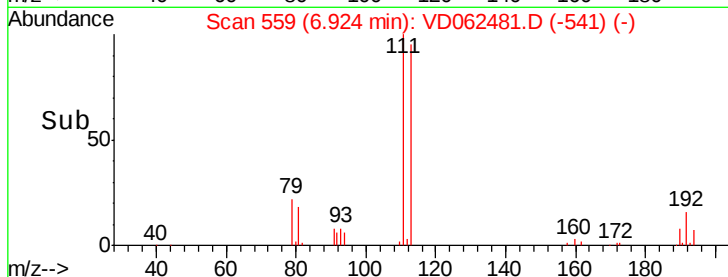
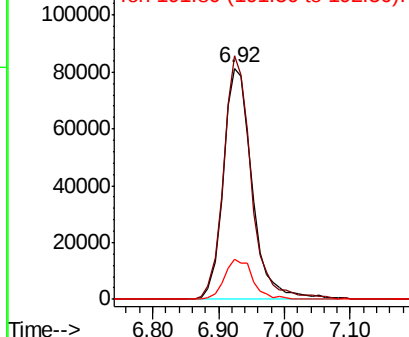
113 100

111 105.5 78.5 117.7

192 17.3 13.0 19.4



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: 5.436 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.12 min

Lab File: VD062481.D

Acq: 21 May 2019 15:16

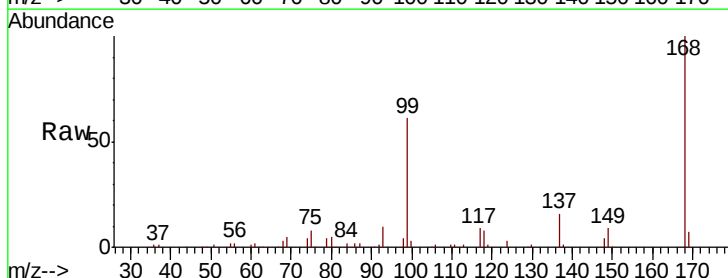
Tgt Ion: 75 Resp: 36234

Ion Ratio Lower Upper

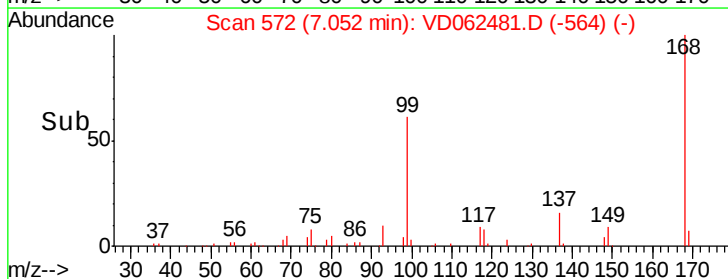
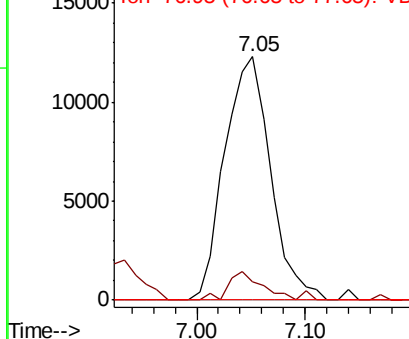
75 100

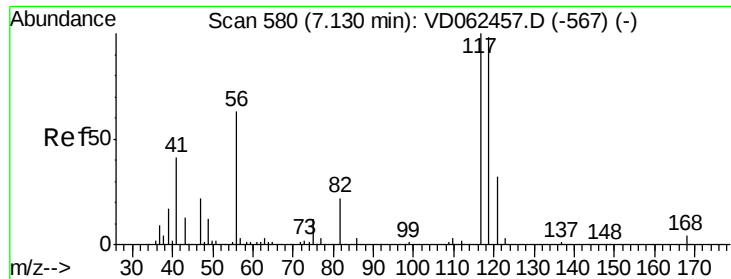
110 7.7 19.1 57.1#

77 0.0 25.6 38.4#



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

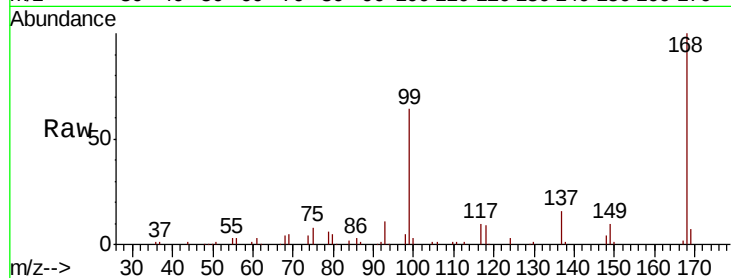




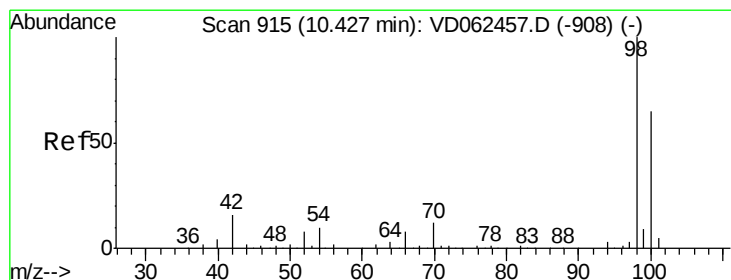
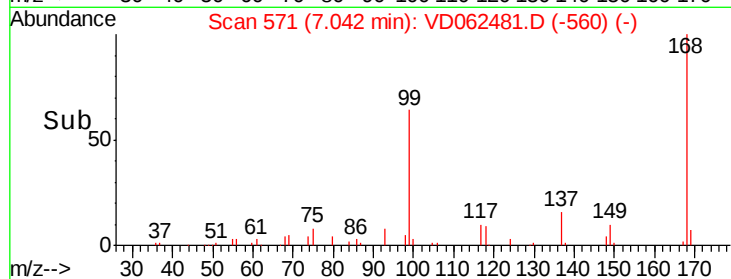
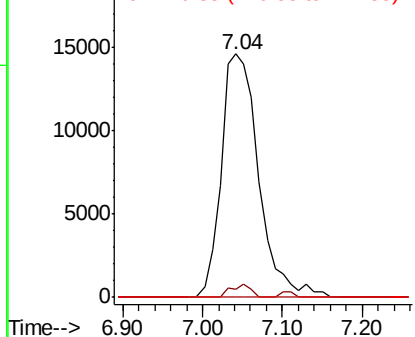
#38
Carbon Tetrachloride
Concen: 4.834 ug/l
RT: 7.04 min Scan# 571
Delta R.T. -0.09 min
Lab File: VD062481.D
Acq: 21 May 2019 15:16

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 47889
Ion Ratio Lower Upper
117 100
119 3.5 75.8 113.8#
121 0.0 25.9 38.9#

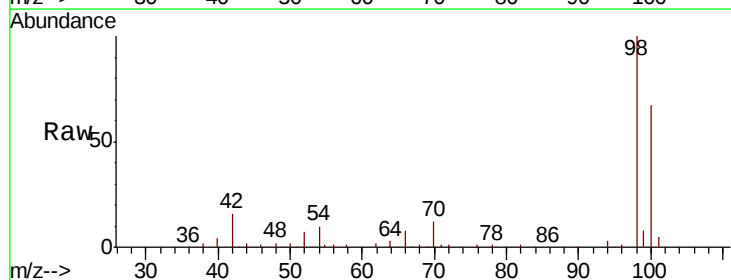


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

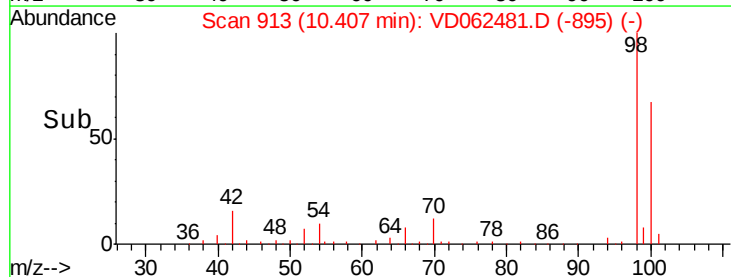
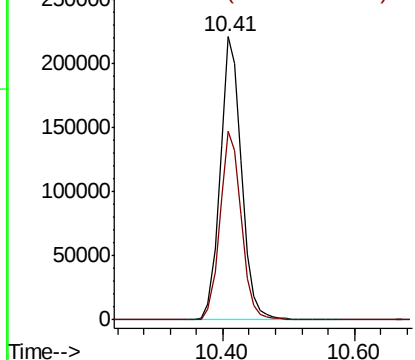


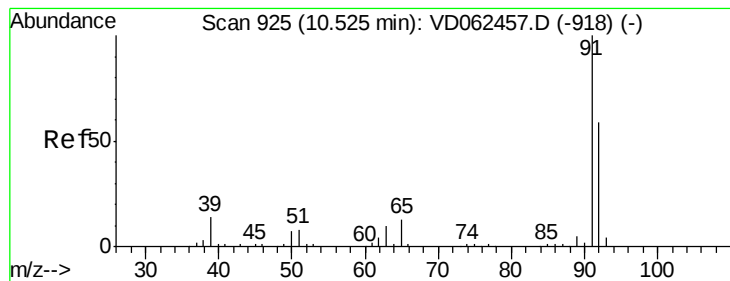
#50
Toluene-d8
Concen: 36.011 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.02 min
Lab File: VD062481.D
Acq: 21 May 2019 15:16

Tgt Ion: 98 Resp: 495619
Ion Ratio Lower Upper
98 100
100 66.6 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 2.223 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.02 min

Lab File: VD062481.D

Acq: 21 May 2019 15:16

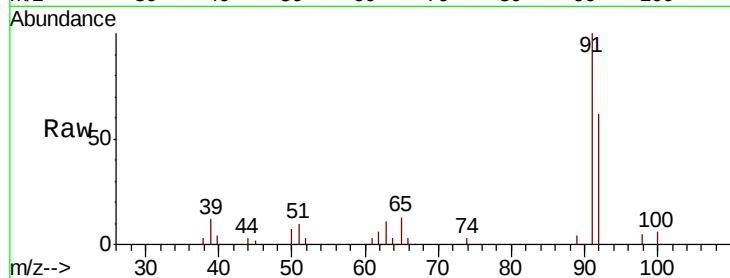
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 19895

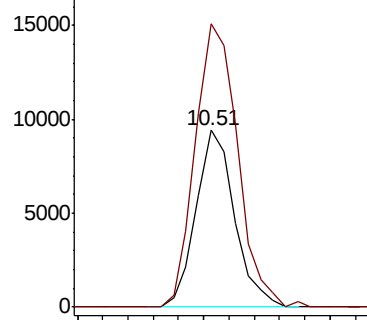
Ion Ratio Lower Upper

92 100

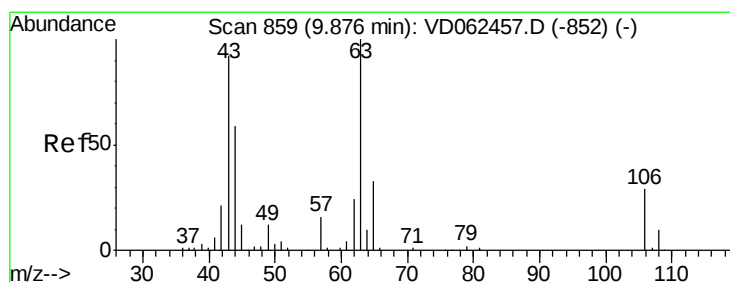
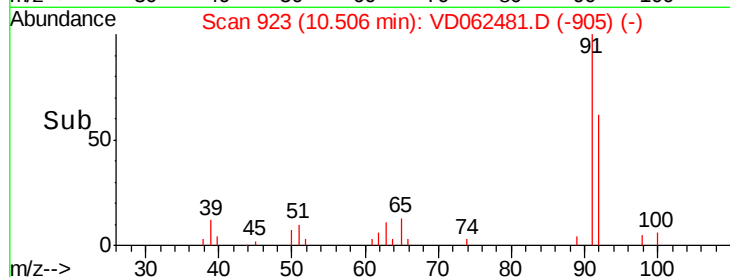
91 160.3 136.6 204.8



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



Time--> 10.40 10.50 10.60



#58

2-Chloroethyl Vinyl ether

Concen: 5.877 ug/l

RT: 9.86 min Scan# 857

Delta R.T. -0.02 min

Lab File: VD062481.D

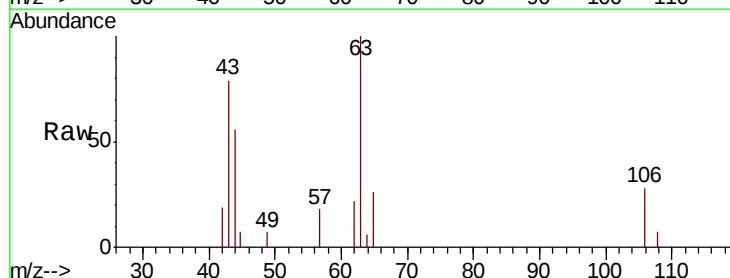
Acq: 21 May 2019 15:16

Tgt Ion: 63 Resp: 9786

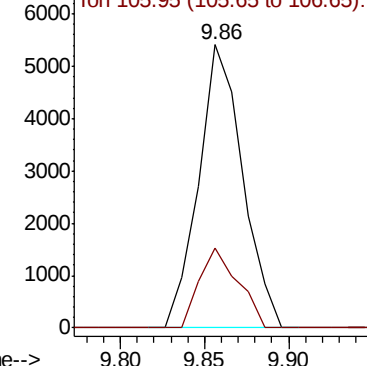
Ion Ratio Lower Upper

63 100

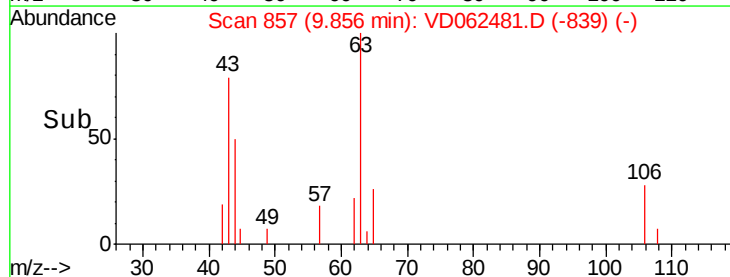
106 28.4 22.6 34.0

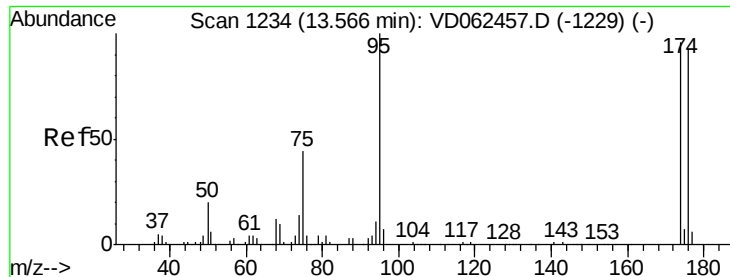


Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 105.95 (105.65 to 106.65): V



Time--> 9.80 9.85 9.90

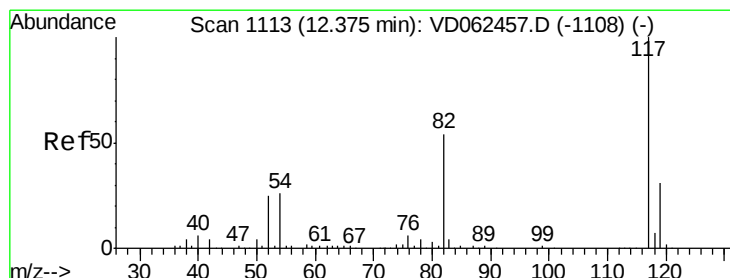
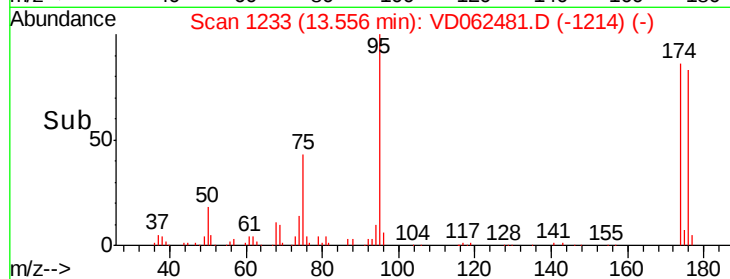
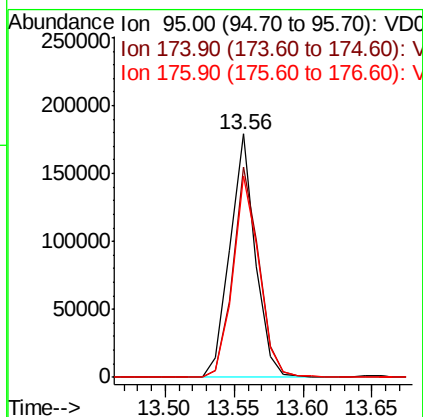
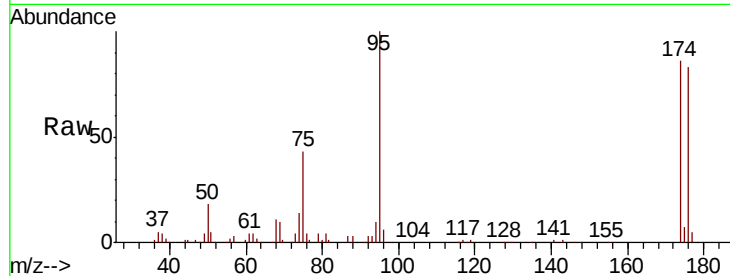




#62
4-Bromofluorobenzene
Concen: 38.145 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.01 min
Lab File: VD062481.D
Acq: 21 May 2019 15:16

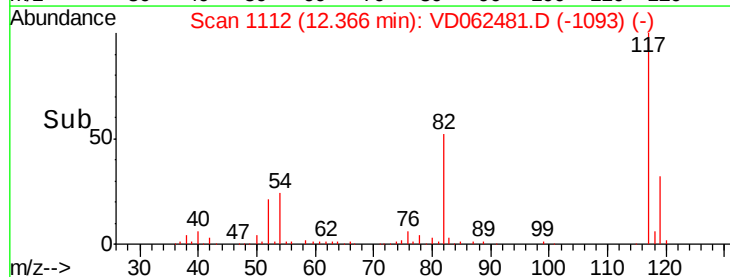
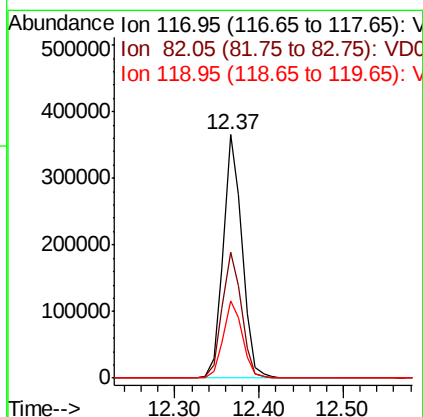
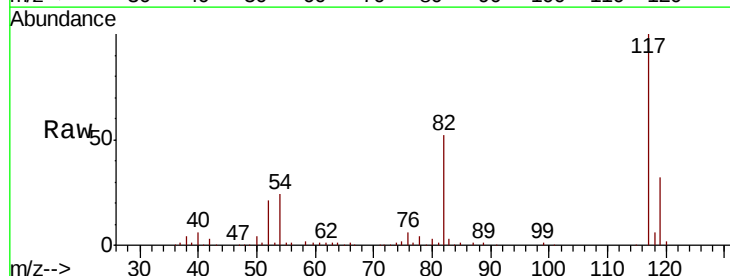
Instrument :
MSVOA_D
ClientSampleID :

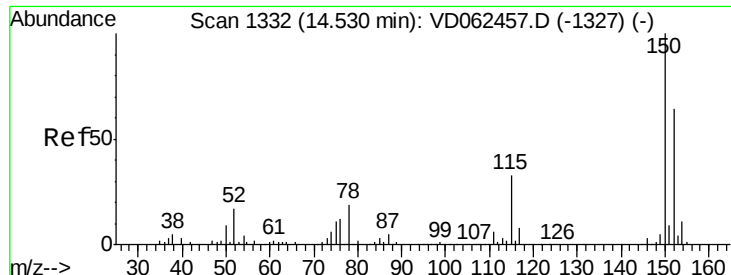
Tot Ion	95	Resp	229648
Ion Ratio	100	Lower	Upper
174	86.4	0.0	181.8
176	82.9	0.0	174.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062481.D
Acq: 21 May 2019 15:16

Tgt Ion	117	Resp	569181
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
82	51.6	36.2	54.2
119	31.5	26.2	39.4



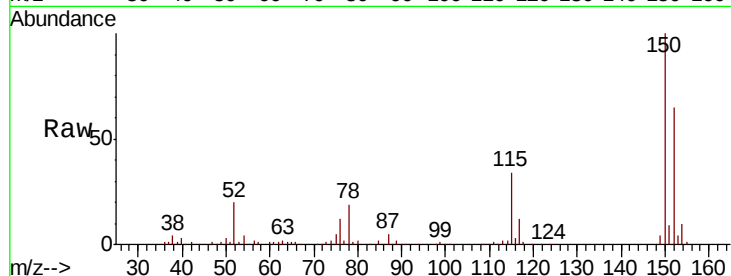


#72

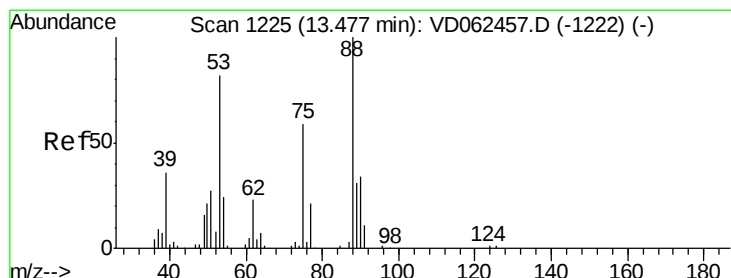
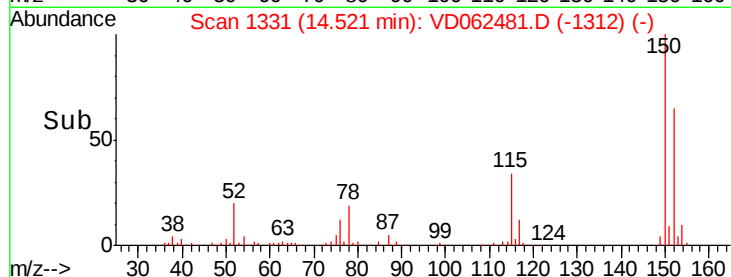
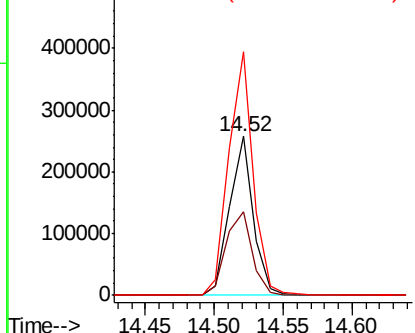
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VD062481.D
Acq: 21 May 2019 15:16

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 307045
Ion Ratio Lower Upper
152 100
115 52.4 30.9 92.7
150 153.6 0.0 314.8



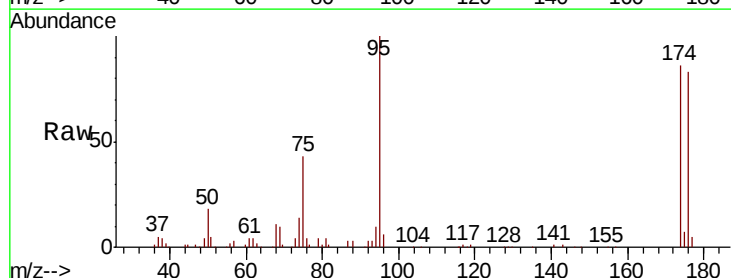
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene
Concen: 95.953 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.08 min
Lab File: VD062481.D
Acq: 21 May 2019 15:16

Tgt Ion: 75 Resp: 97871
Ion Ratio Lower Upper
75 100
53 0.0 65.8 98.8#
89 0.0 35.0 52.6#



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

