

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD033119\
 Data File : VD061460.D
 Acq On : 31 Mar 2019 21:23
 Operator : VA/AP
 Sample : K2132-02RE
 Misc : 7.27g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 01 01:56:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	367364	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	607256	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.38	117	545218	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	231999	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	176857	56.36	ug/l	0.03
Spiked Amount			Recovery	=	112.72%	
35) Dibromofluoromethane	6.93	113	238398	51.37	ug/l	0.03
Spiked Amount			Recovery	=	102.74%	
50) Toluene-d8	10.42	98	562516	50.54	ug/l	0.03
Spiked Amount			Recovery	=	101.08%	
62) 4-Bromofluorobenzene	13.57	95	206100	48.29	ug/l	0.02
Spiked Amount			Recovery	=	96.58%	

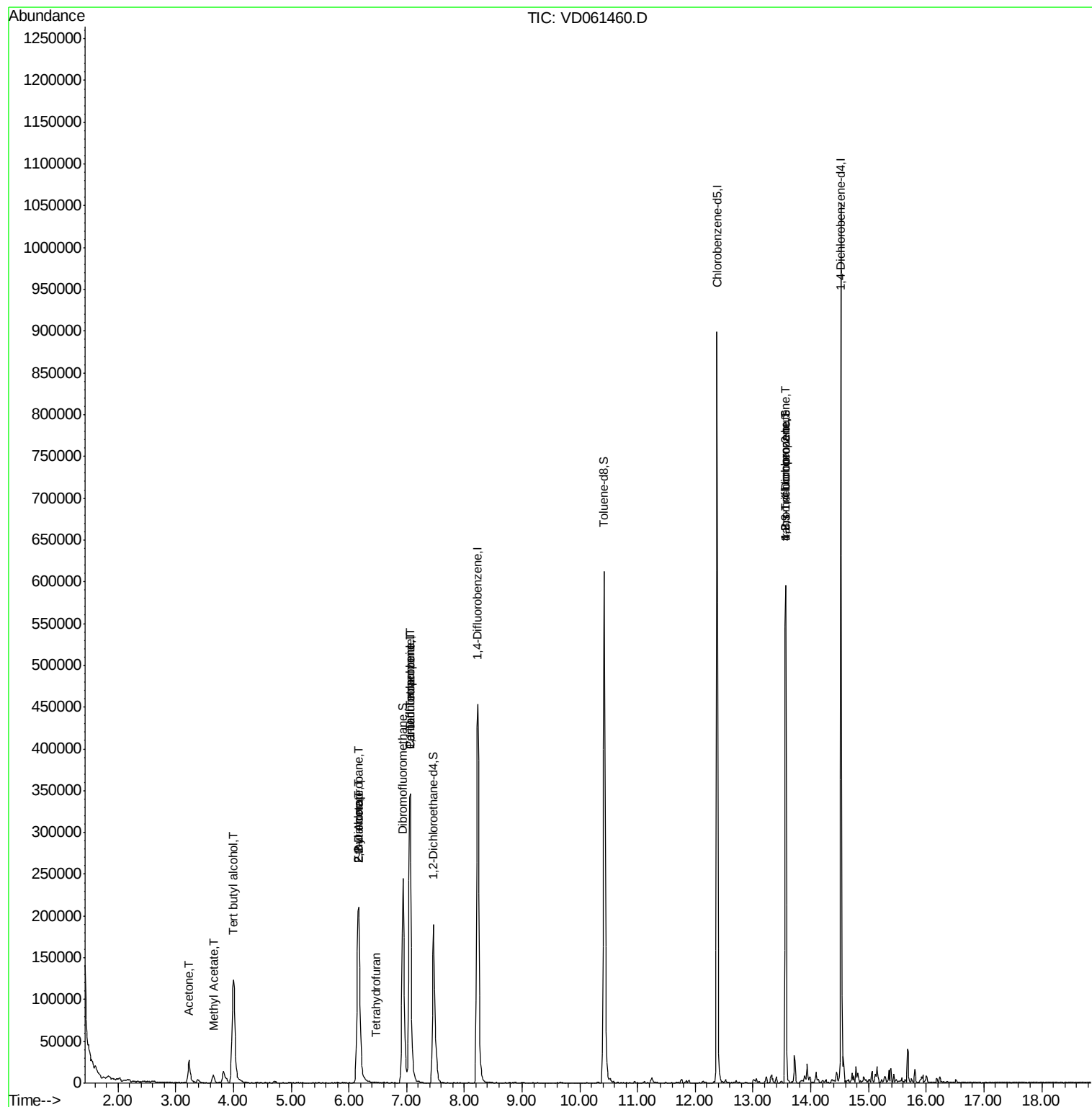
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.00	59	120613	617.150	ug/l #	80
16) Acetone	3.23	43	54928	68.088	ug/l	99
18) Methyl Acetate	3.66	43	16811	9.911	ug/l	97
25) 2-Butanone	6.16	43	14211	14.004	ug/l #	54
26) 2,2-Dichloropropane	6.16	77	15791	2.904	ug/l #	50
29) Tetrahydrofuran	6.47	42	753	1.531	ug/l #	30
36) 1,1-Dichloropropene	7.05	75	27358	5.162	ug/l #	47
37) Ethyl Acetate	6.16	43	14453	6.376	ug/l #	10
38) Carbon Tetrachloride	7.05	117	35260	5.790	ug/l #	13
76) 1,2,3-Trichloropropane	13.56	75	76977	22.969	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.56	75	77693	76.035	ug/l #	18

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
Quant Title : SW846 8260
QLast Update : Thu Mar 28 09:22:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD061460.D

Acq: 31 Mar 2019 21:23

Instrument :

MSVOA_D

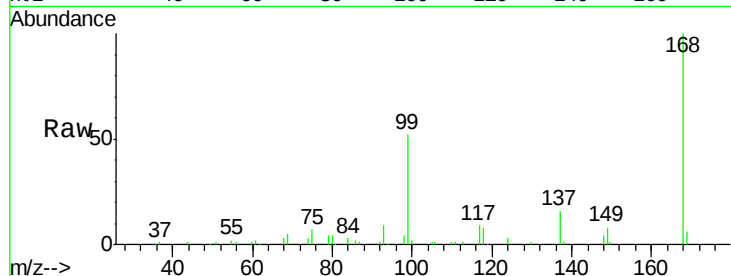
ClientSampleId :

Tot Ion:168 Resp: 367364

Ion Ratio Lower Upper

168 100

99 52.4 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

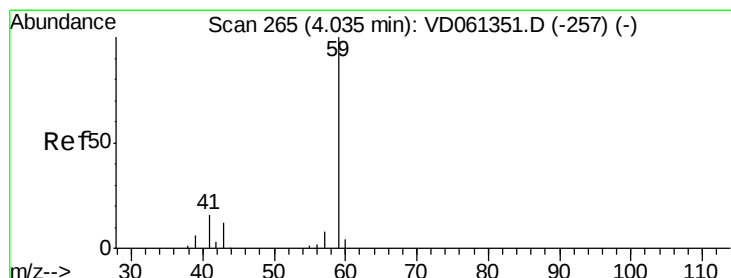
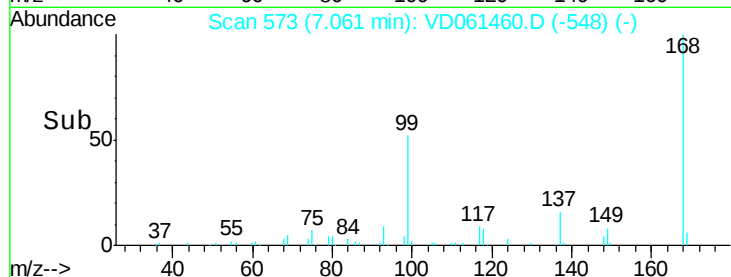
150000

100000

50000

0

Time--> 6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 617.150 ug/l

RT: 4.00 min Scan# 262

Delta R.T. -0.04 min

Lab File: VD061460.D

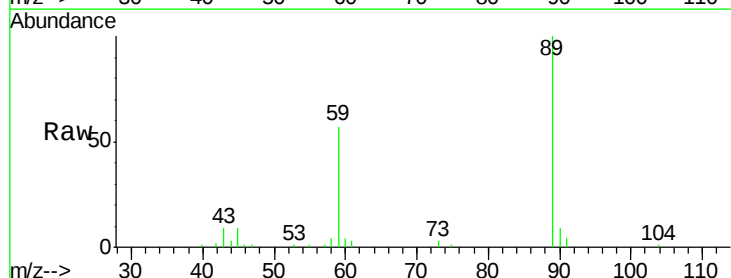
Acq: 31 Mar 2019 21:23

Tgt Ion: 59 Resp: 120613

Ion Ratio Lower Upper

59 100

57 1.3 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.00

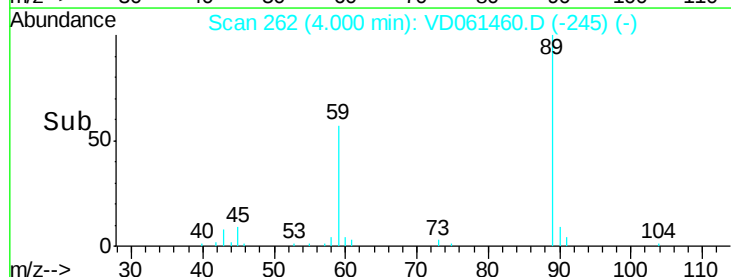
30000

20000

10000

0

Time--> 3.80 3.90 4.00 4.10 4.20

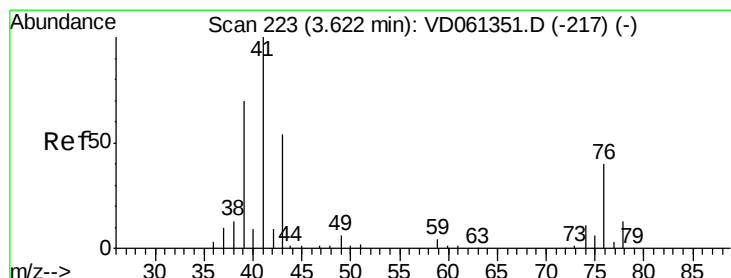
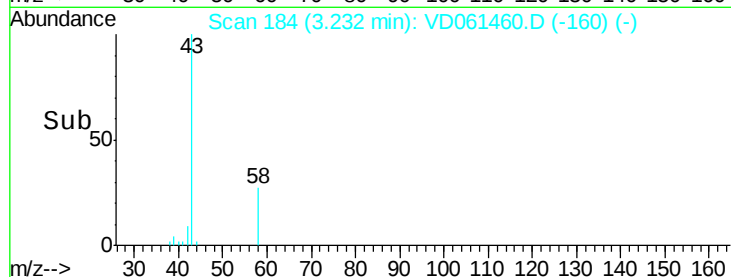
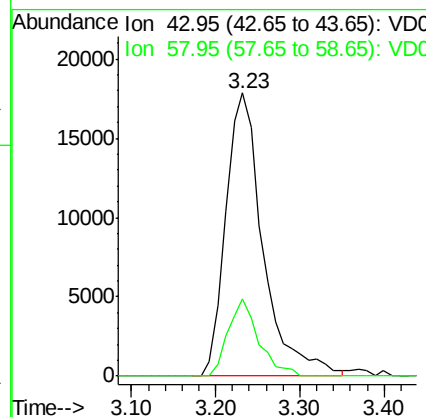
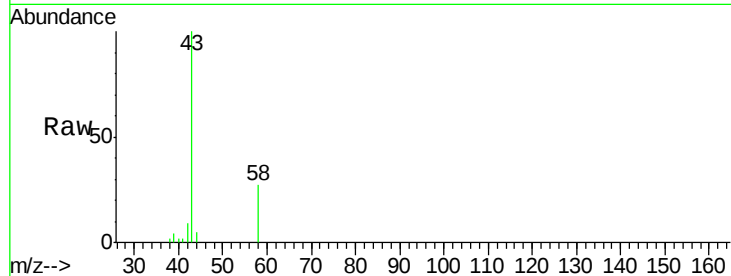




#16
Acetone
Concen: 68.088 ug/l
RT: 3.23 min Scan# 184
Delta R.T. 0.03 min
Lab File: VD061460.D
Acq: 31 Mar 2019 21:23

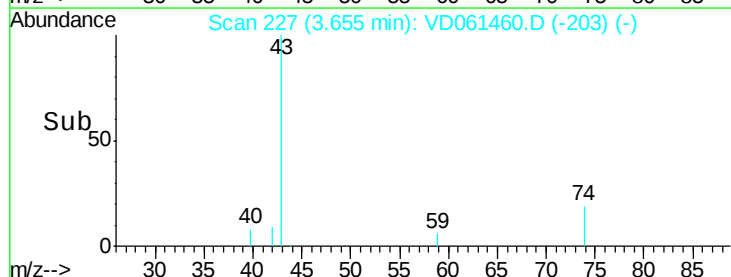
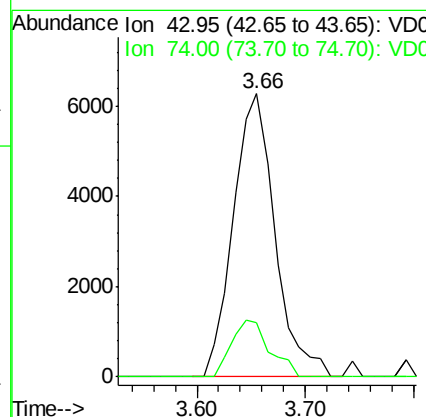
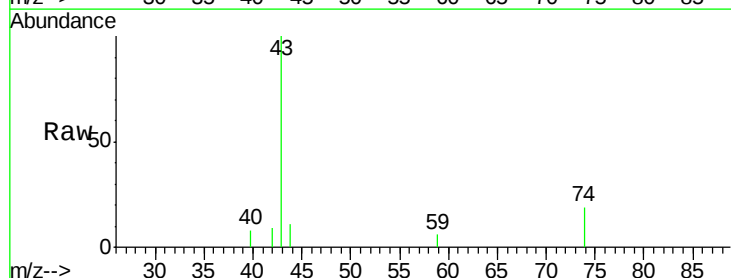
Instrument :
MSVOA_D
ClientSampled :

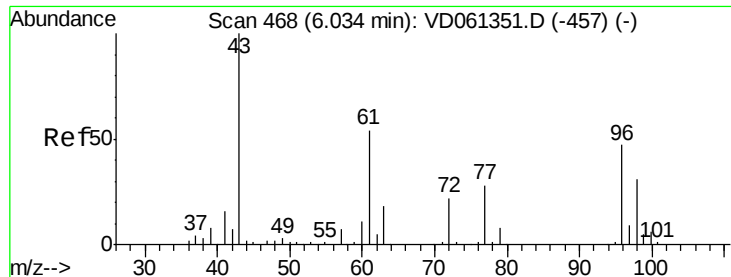
Tot Ion: 43 Resp: 54928
Ion Ratio Lower Upper
43 100
58 27.3 21.5 32.3



#18
Methyl Acetate
Concen: 9.911 ug/l
RT: 3.66 min Scan# 227
Delta R.T. 0.03 min
Lab File: VD061460.D
Acq: 31 Mar 2019 21:23

Tgt Ion: 43 Resp: 16811
Ion Ratio Lower Upper
43 100
74 19.4 16.7 25.1





#25

2-Butanone

Concen: 14.004 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.12 min

Lab File: VD061460.D

Acq: 31 Mar 2019 21:23

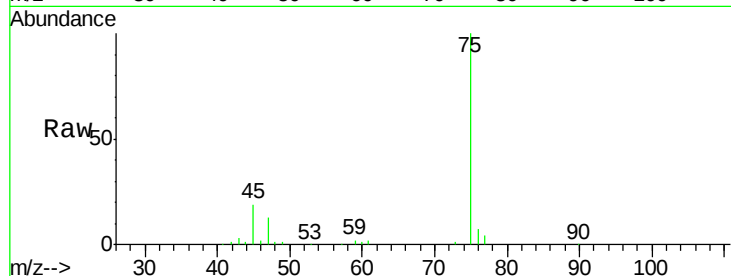
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 14211

Ion Ratio Lower Upper

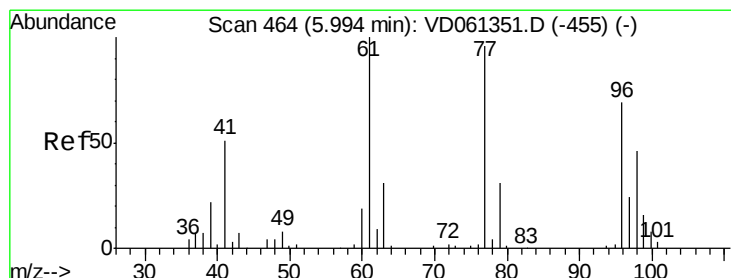
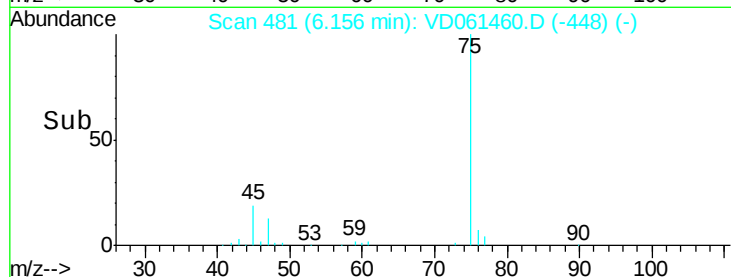
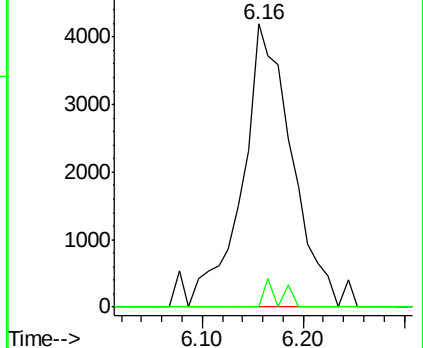
43 100

72 0.0 17.2 25.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 2.904 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.16 min

Lab File: VD061460.D

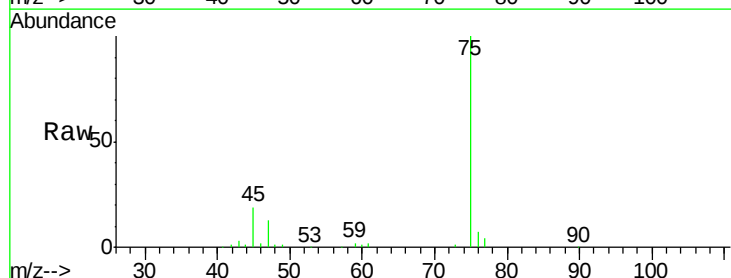
Acq: 31 Mar 2019 21:23

Tgt Ion: 77 Resp: 15791

Ion Ratio Lower Upper

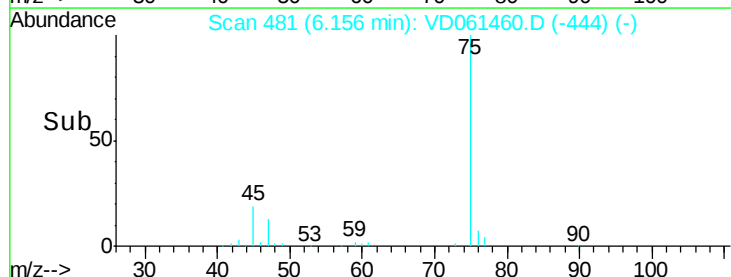
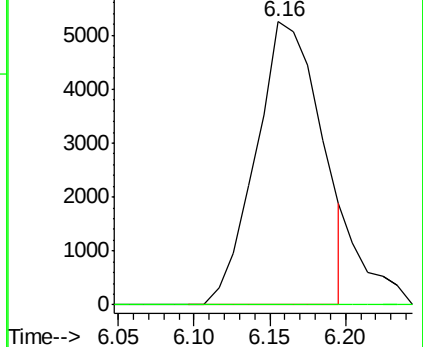
77 100

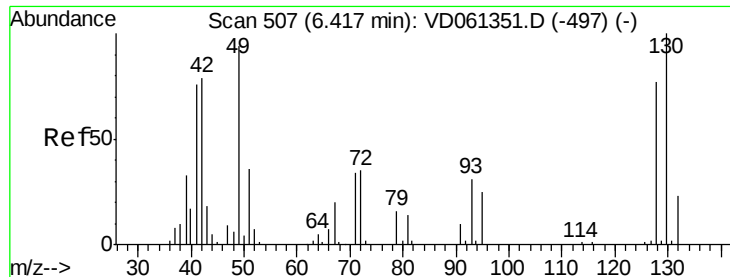
97 0.0 12.7 38.0#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#29

Tetrahydrofuran

Concen: 1.531 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.05 min

Lab File: VD061460.D

Acq: 31 Mar 2019 21:23

Instrument :

MSVOA_D

ClientSampleId :

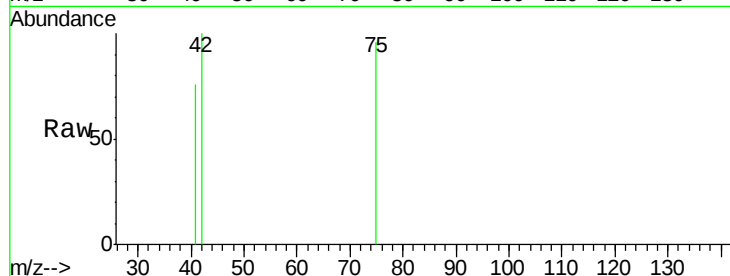
Tot Ion: 42 Resp: 753

Ion Ratio Lower Upper

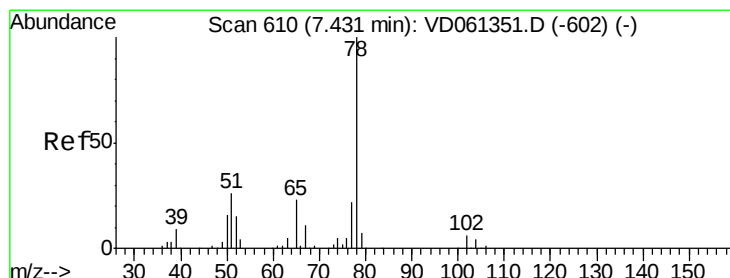
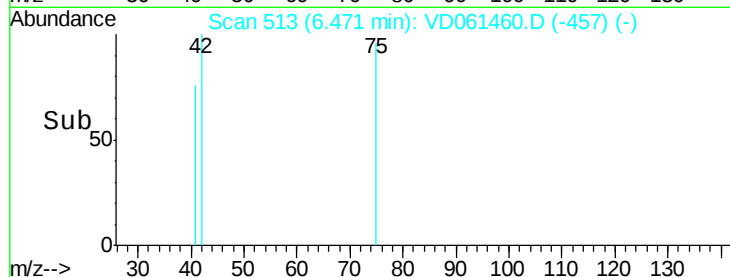
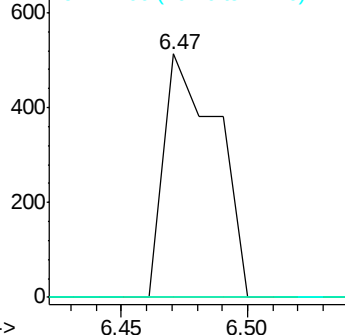
42 100

72 0.0 37.4 56.0#

71 0.0 36.7 55.1#



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



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 614

Delta R.T. 0.03 min

Lab File: VD061460.D

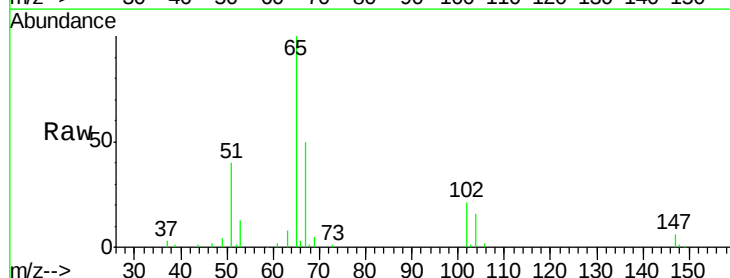
Acq: 31 Mar 2019 21:23

Tgt Ion: 65 Resp: 176857

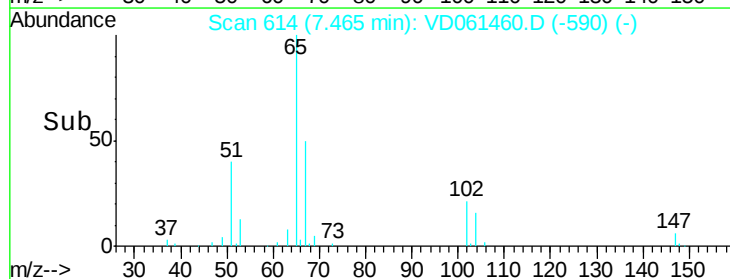
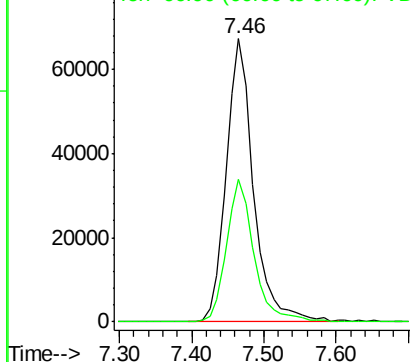
Ion Ratio Lower Upper

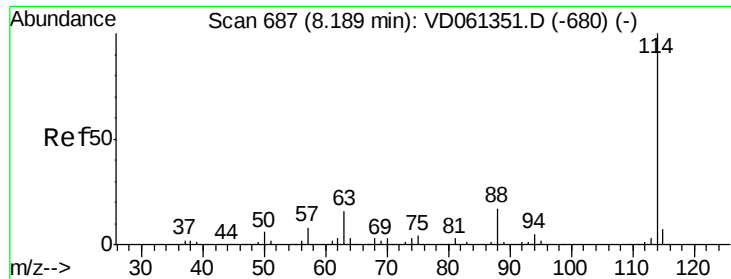
65 100

67 50.4 0.0 99.8



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

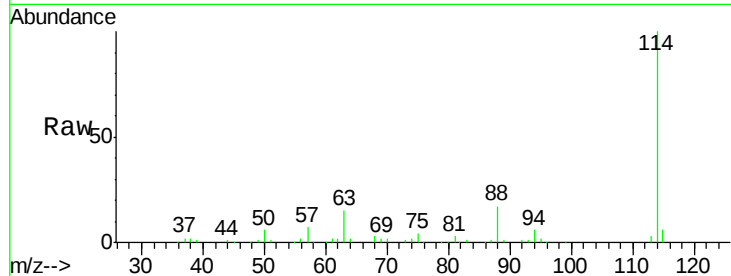




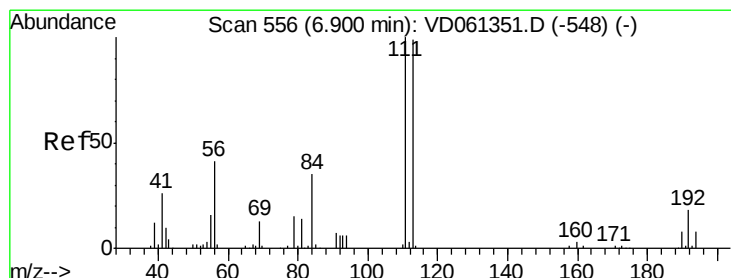
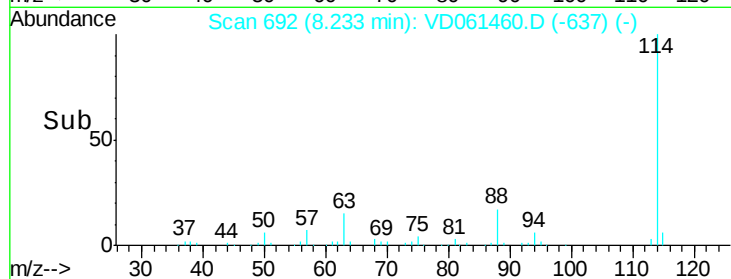
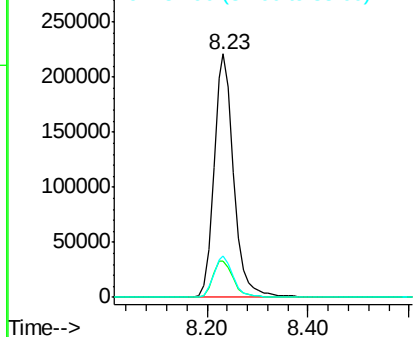
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. 0.04 min
 Lab File: VD061460.D
 Acq: 31 Mar 2019 21:23

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:114 Resp: 607256
 Ion Ratio Lower Upper
 114 100
 63 15.1 0.0 31.6
 88 17.1 0.0 33.4

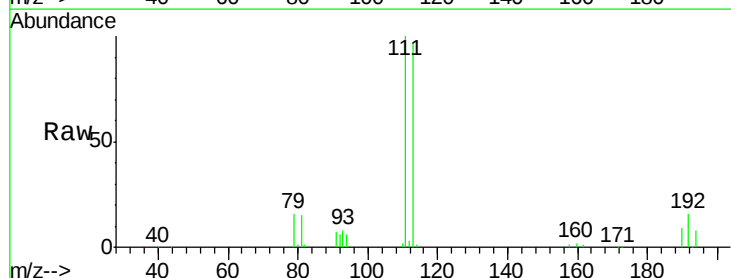


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

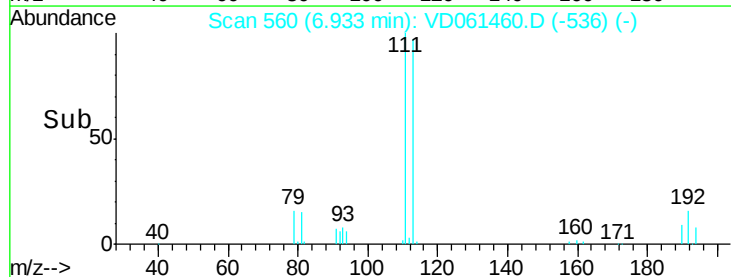
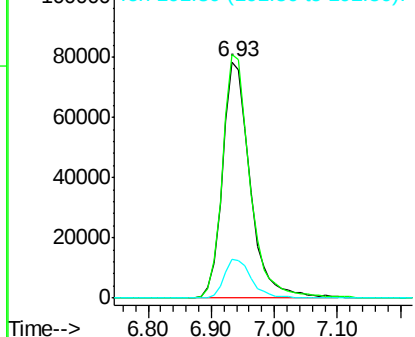


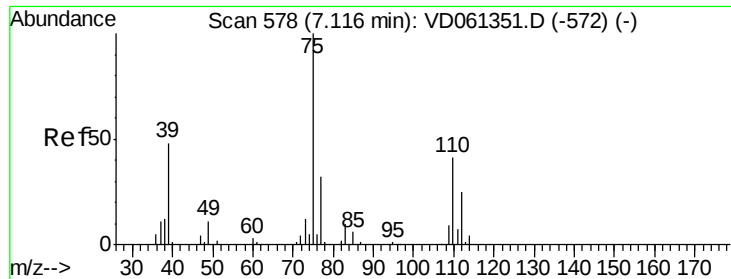
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.93 min Scan# 560
 Delta R.T. 0.03 min
 Lab File: VD061460.D
 Acq: 31 Mar 2019 21:23

Tgt Ion:113 Resp: 238398
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.0 121.6
 192 16.5 14.4 21.6



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: 5.162 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD061460.D

Acq: 31 Mar 2019 21:23

Instrument :

MSVOA_D

ClientSampleId :

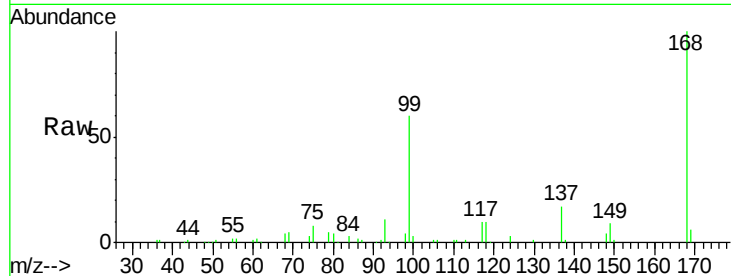
Tot Ion: 75 Resp: 27358

Ion Ratio Lower Upper

75 100

110 9.7 20.4 61.3#

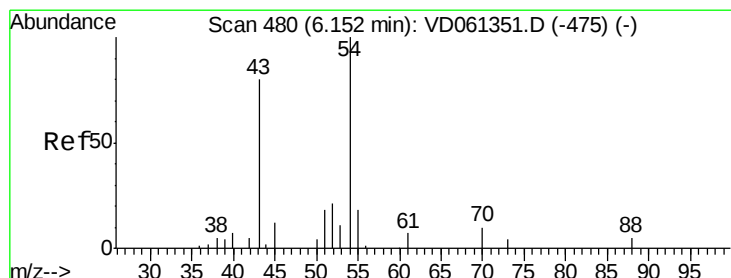
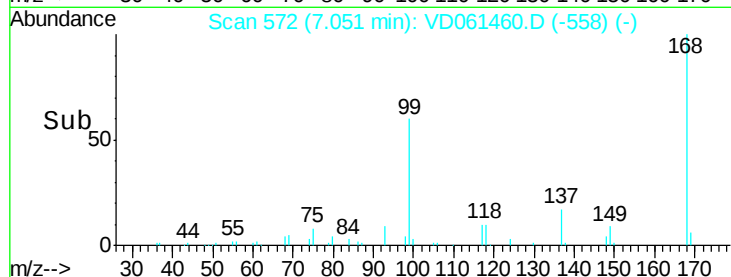
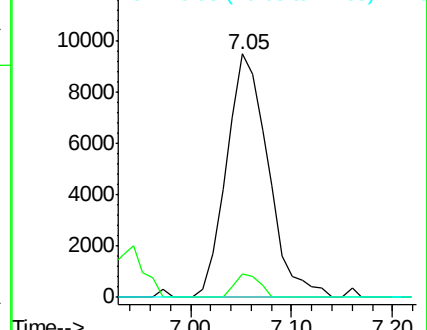
77 0.0 24.9 37.3#



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: 6.376 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.00 min

Lab File: VD061460.D

Acq: 31 Mar 2019 21:23

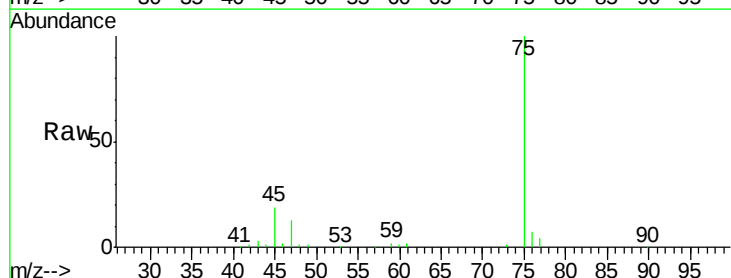
Tgt Ion: 43 Resp: 14453

Ion Ratio Lower Upper

43 100

61 72.1 13.8 20.8#

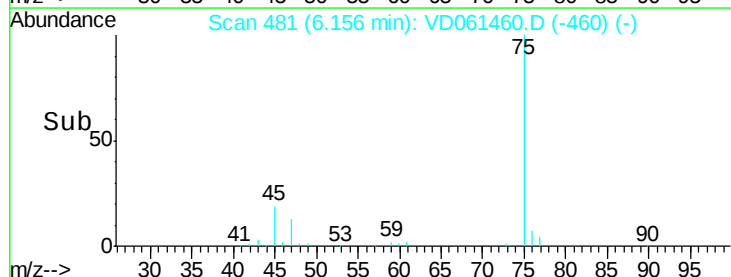
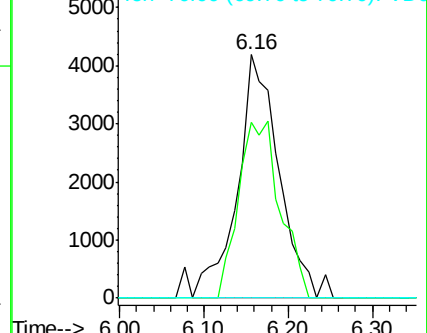
70 0.0 7.8 11.8#

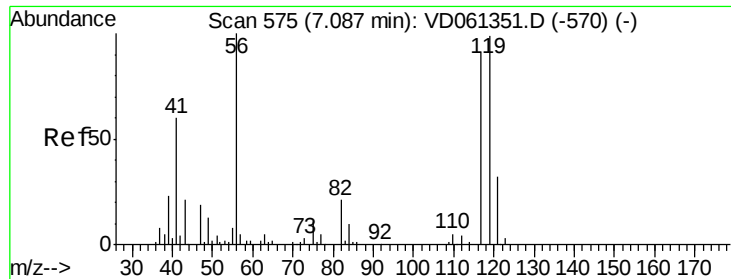


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

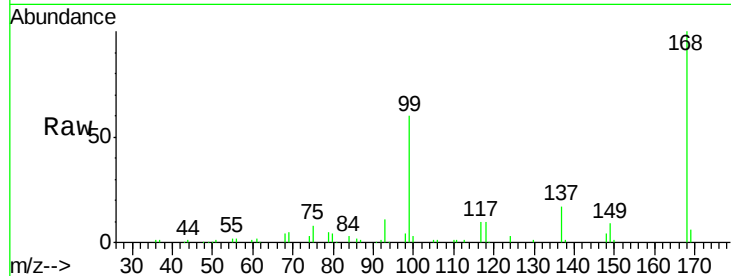




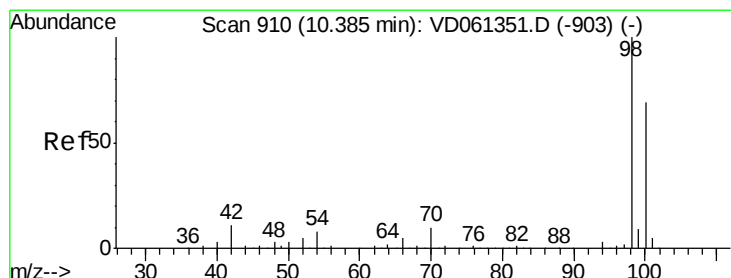
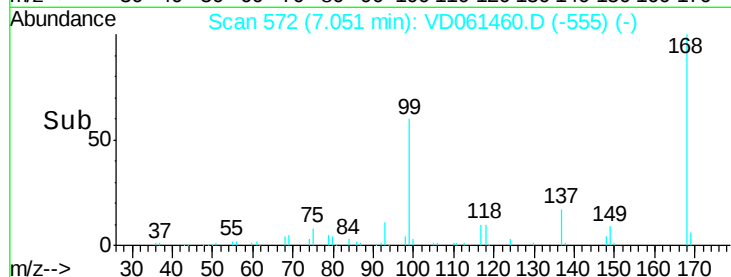
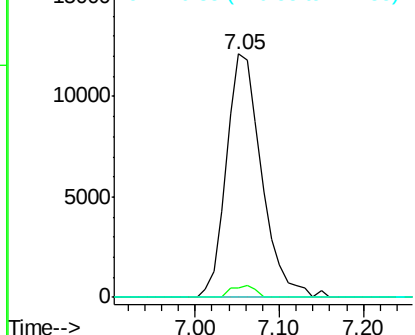
#38
Carbon Tetrachloride
Concen: 5.790 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.04 min
Lab File: VD061460.D
Acq: 31 Mar 2019 21:23

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 35260
Ion Ratio Lower Upper
117 100
119 3.7 80.1 120.1#
121 0.0 25.6 38.4#

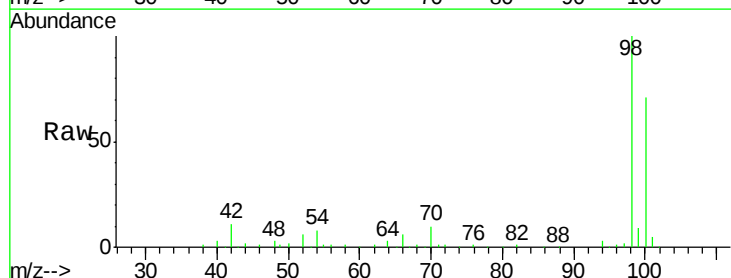


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

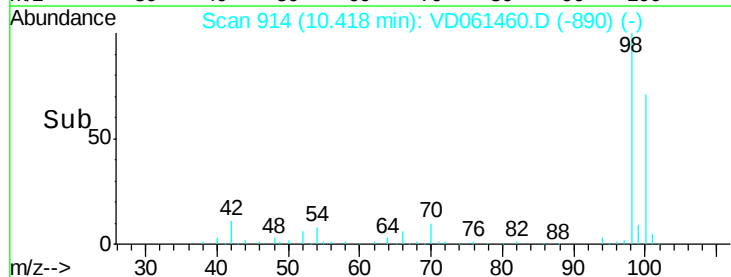
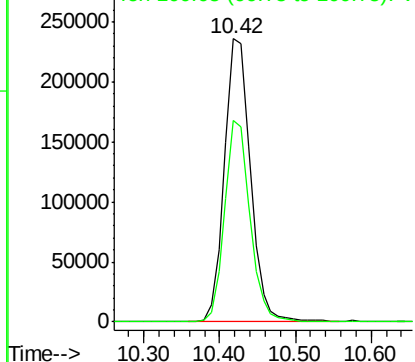


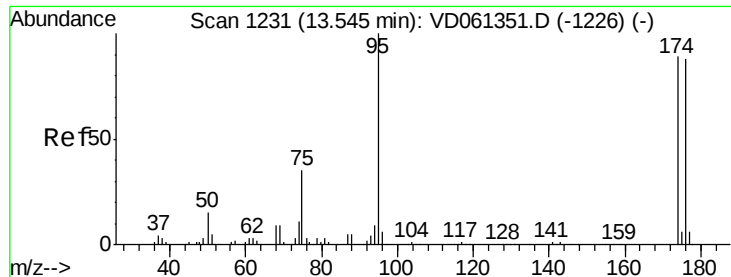
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.03 min
Lab File: VD061460.D
Acq: 31 Mar 2019 21:23

Tgt Ion: 98 Resp: 562516
Ion Ratio Lower Upper
98 100
100 71.1 56.2 84.2



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

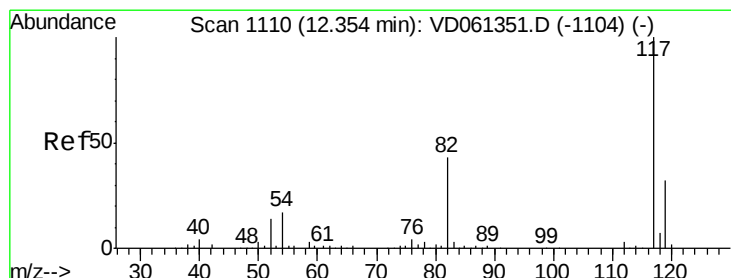
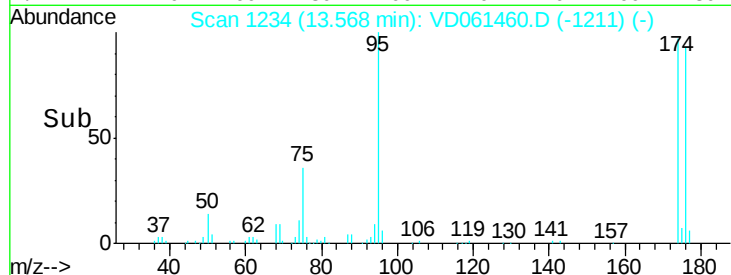
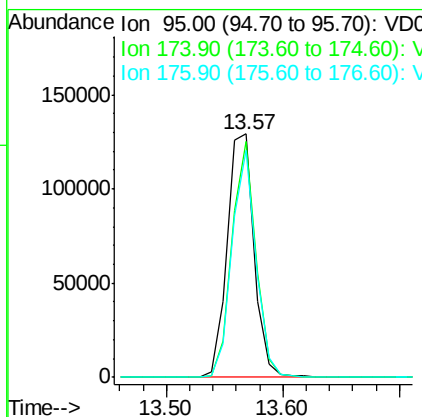
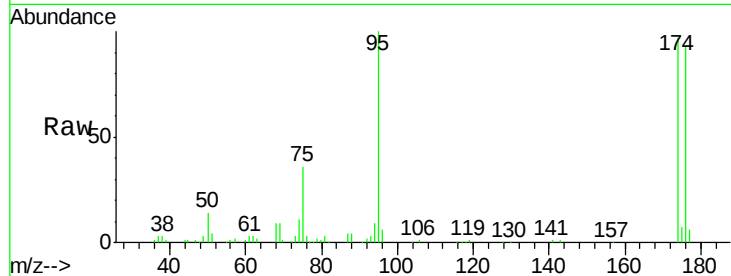




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.57 min Scan# 1234
Delta R.T. 0.02 min
Lab File: VD061460.D
Acq: 31 Mar 2019 21:23

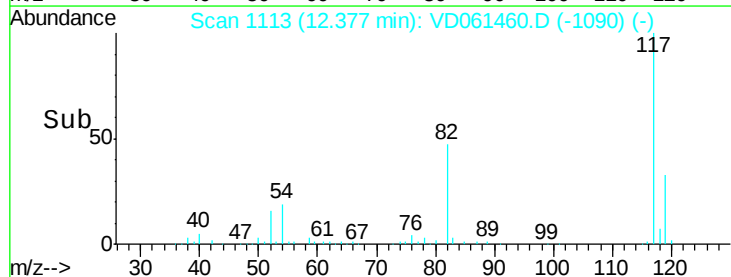
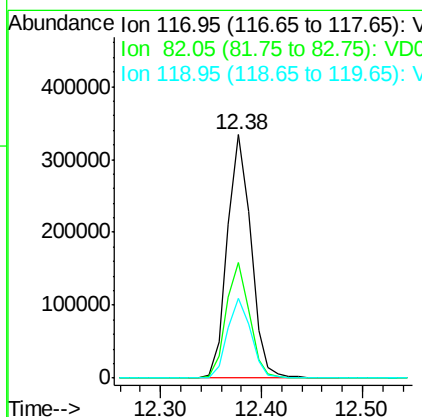
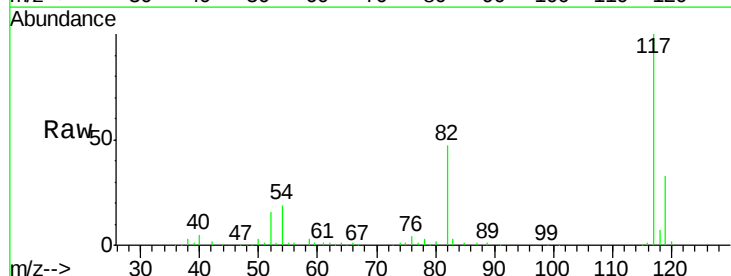
Instrument :
MSVOA_D
ClientSampleId :

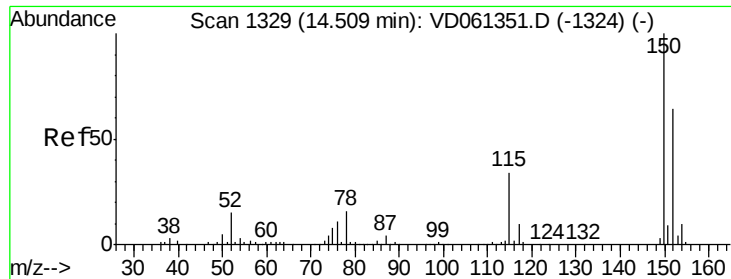
Tot Ion: 95 Resp: 206100
Ion Ratio Lower Upper
95 100
174 96.9 0.0 178.0
176 93.1 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD061460.D
Acq: 31 Mar 2019 21:23

Tgt Ion: 117 Resp: 545218
Ion Ratio Lower Upper
117 100
82 47.3 34.4 51.6
119 32.7 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD061460.D

Acq: 31 Mar 2019 21:23

Instrument :

MSVOA_D

ClientSampleId :

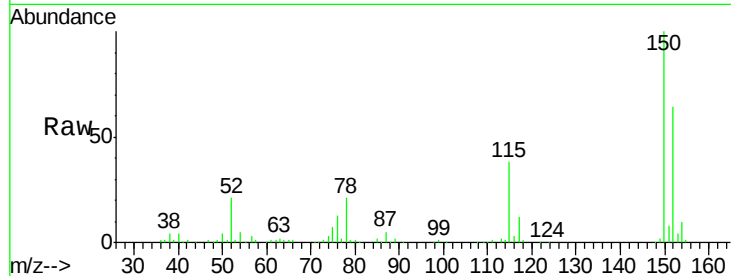
Tot Ion:152 Resp: 231999

Ion Ratio Lower Upper

152 100

115 59.9 26.9 80.6

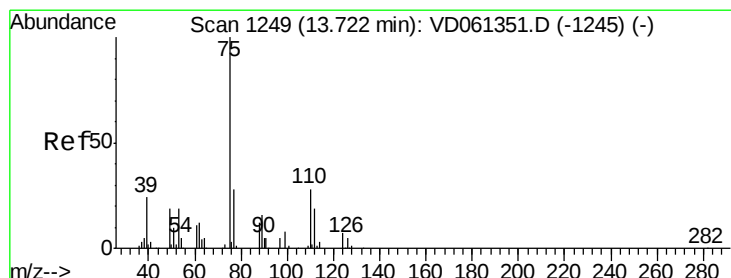
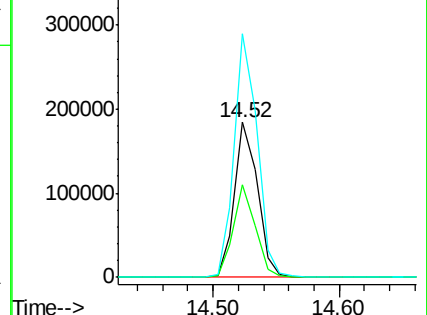
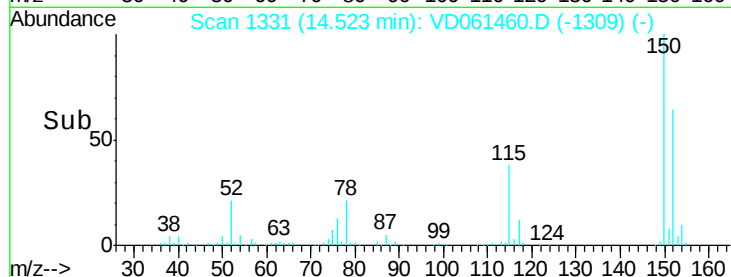
150 157.0 0.0 318.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.969 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD061460.D

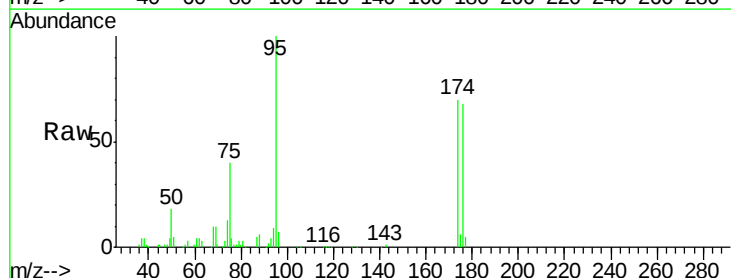
Acq: 31 Mar 2019 21:23

Tgt Ion: 75 Resp: 76977

Ion Ratio Lower Upper

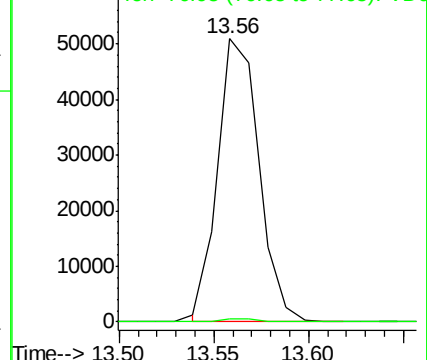
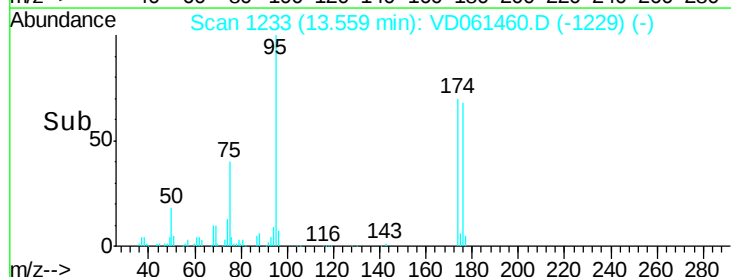
75 100

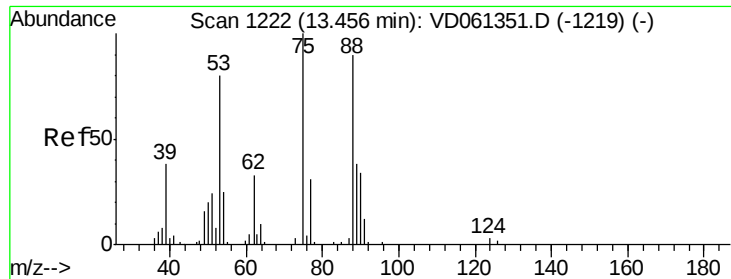
77 1.3 16.2 48.5#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 76.035 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.10 min

Lab File: VD061460.D

Acq: 31 Mar 2019 21:23

Instrument :

MSVOA_D

ClientSampleId :

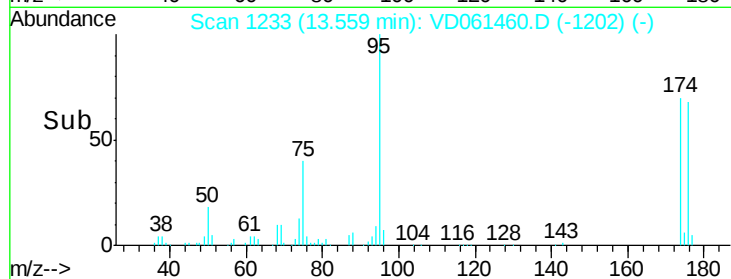
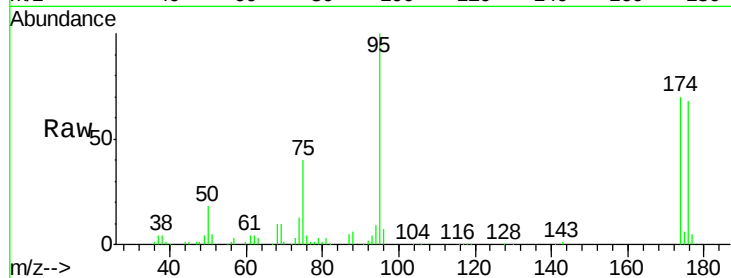
Tot Ion: 75 Resp: 77693

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#



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

