

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040419\
 Data File : VD061589.D
 Acq On : 4 Apr 2019 19:59
 Operator : VA/AP
 Sample : K2197-03
 Misc : 5.86g/5ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 05 01:40:10 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	7.02	168	378458	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.19	114	713739	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.34	117	526195	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	199410	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.42	65	190838	59.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	118.06%	
35) Dibromofluoromethane	6.90	113	276643	50.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.44%	
50) Toluene-d8	10.38	98	427559	32.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	65.36%	
62) 4-Bromofluorobenzene	13.54	95	186510	37.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	74.36%	

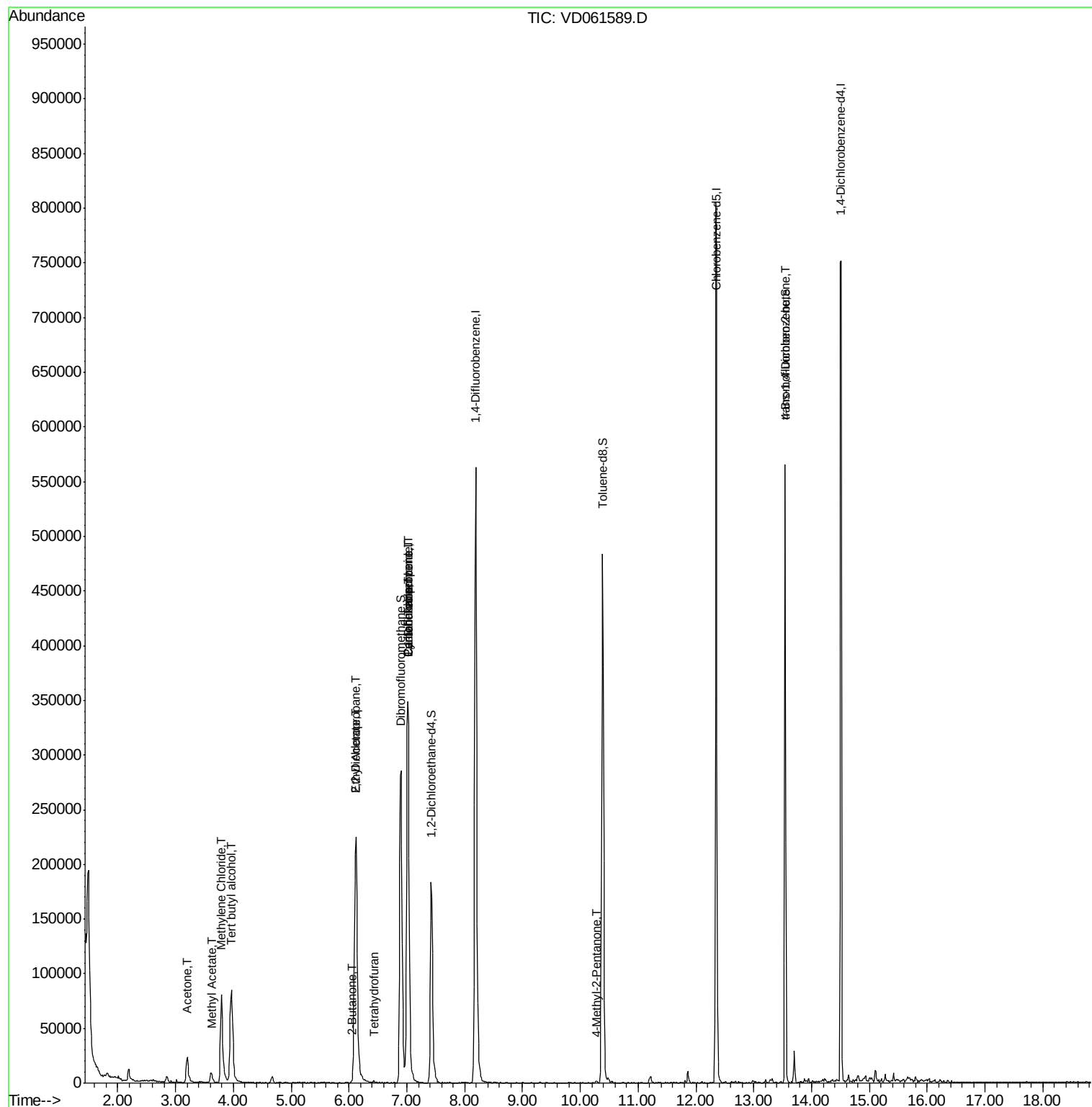
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.97	59	77769	386.262	ug/l #	81
16) Acetone	3.21	43	48235	58.039	ug/l	95
18) Methyl Acetate	3.61	43	18224	10.429	ug/l #	82
20) Methylene Chloride	3.79	84	63073	12.092	ug/l	96
25) 2-Butanone	6.04	43	3059	2.926	ug/l #	54
26) 2,2-Dichloropropane	6.12	77	16046	2.865	ug/l #	50
29) Tetrahydrofuran	6.42	42	1301	2.568	ug/l #	43
31) Cyclohexane	7.01	56	6427	1.154	ug/l #	1
36) 1,1-Dichloropropene	7.02	75	28981	4.652	ug/l #	44
37) Ethyl Acetate	6.12	43	12920	4.850	ug/l #	1
38) Carbon Tetrachloride	7.02	117	37458	5.233	ug/l #	14
51) 4-Methyl-2-Pentanone	10.29	43	2603	1.104	ug/l #	35
81) trans-1,4-Dichloro-2-buten	13.53	75	69504	79.137	ug/l #	18

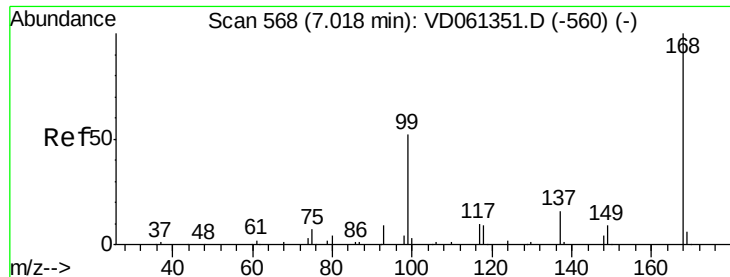
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040419\
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Quant Time: Apr 05 01:40:10 2019
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: 7.02 min Scan# 568

Delta R.T. 0.00 min

Lab File: VD061589.D

Acq: 4 Apr 2019 19:59

Instrument :

MSVOA_D

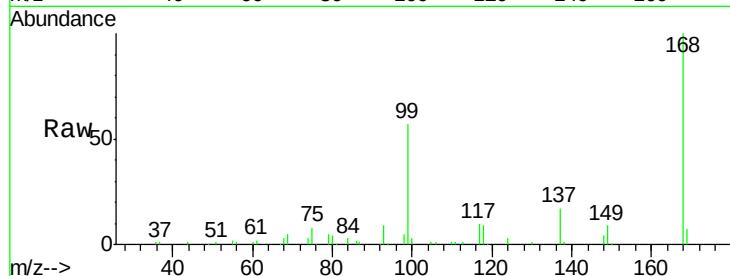
ClientSampleId :

Tot Ion:168 Resp: 378458

Ion Ratio Lower Upper

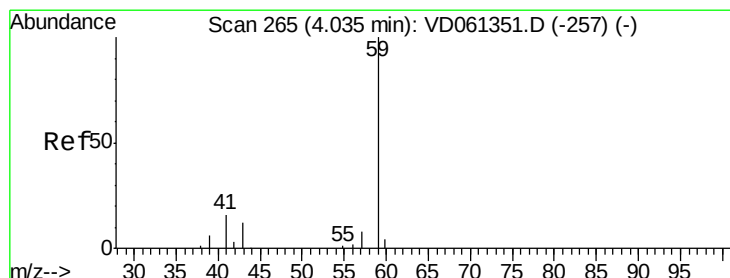
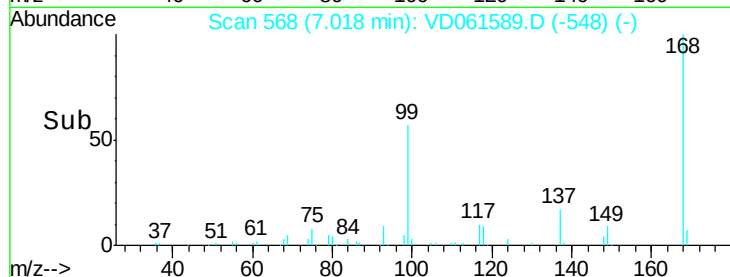
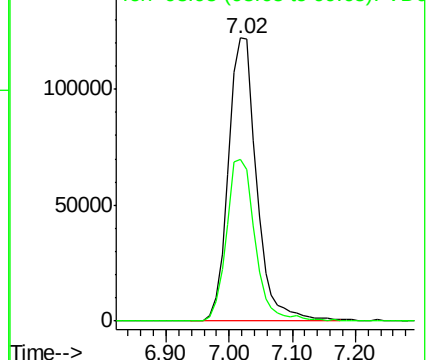
168 100

99 57.2 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 386.262 ug/l

RT: 3.97 min Scan# 258

Delta R.T. -0.07 min

Lab File: VD061589.D

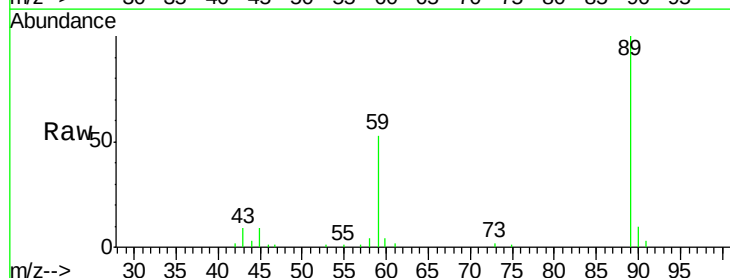
Acq: 4 Apr 2019 19:59

Tgt Ion: 59 Resp: 77769

Ion Ratio Lower Upper

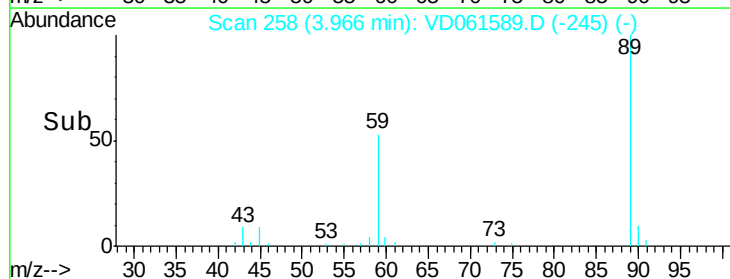
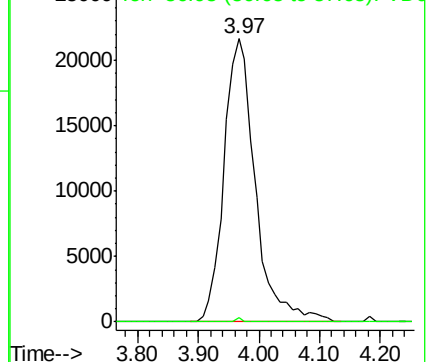
59 100

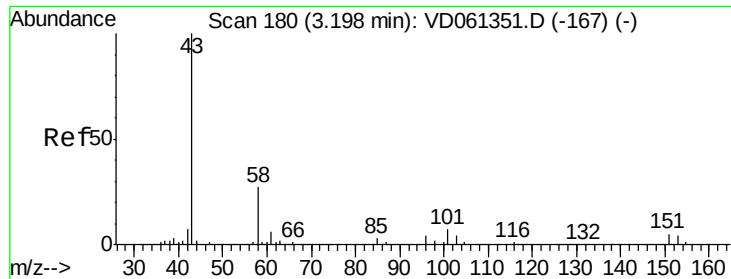
57 1.8 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

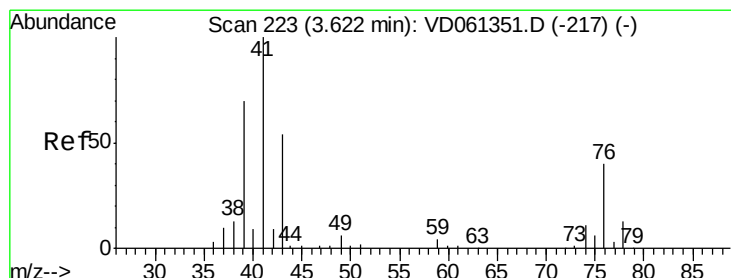
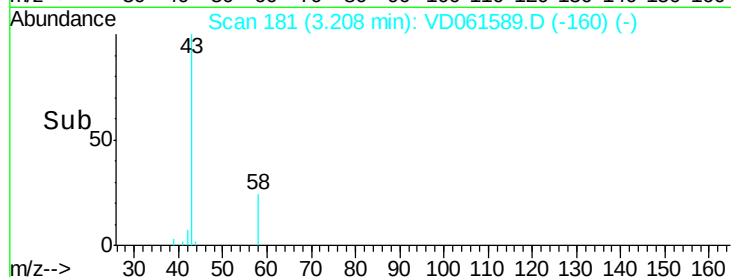
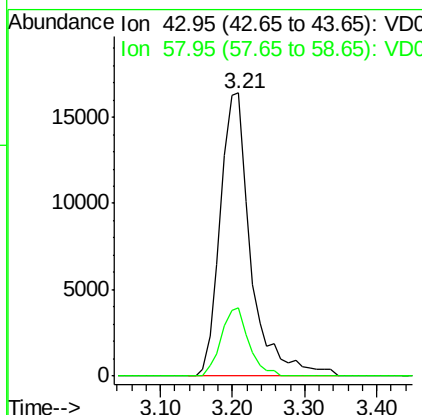
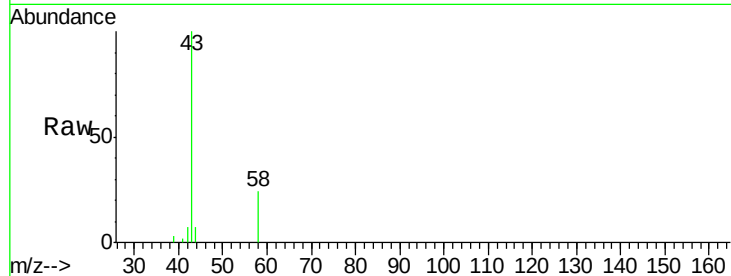




#16
Acetone
Concen: 58.039 ug/l
RT: 3.21 min Scan# 181
Delta R.T. 0.01 min
Lab File: VD061589.D
Acq: 4 Apr 2019 19:59

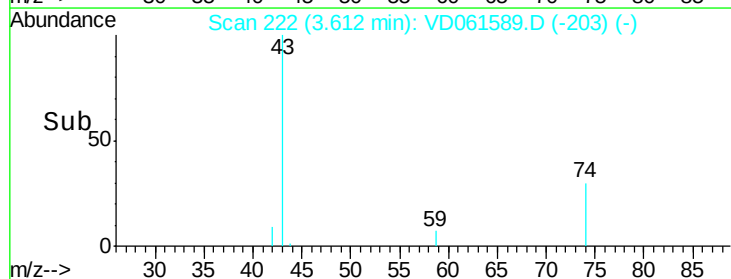
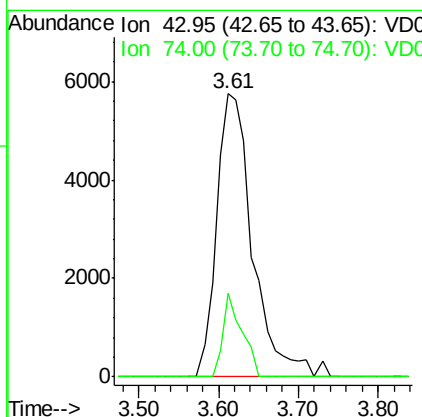
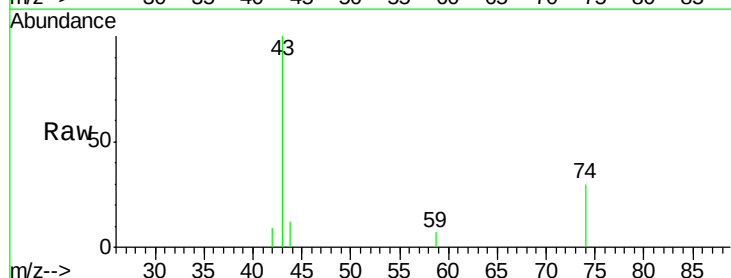
Instrument :
MSVOA_D
ClientSampleId :

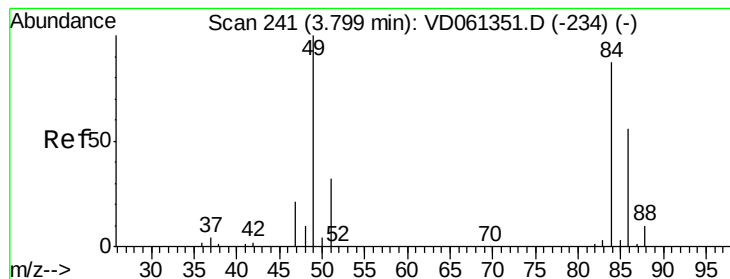
Tot Ion: 43 Resp: 48235
Ion Ratio Lower Upper
43 100
58 24.3 21.5 32.3



#18
Methyl Acetate
Concen: 10.429 ug/l
RT: 3.61 min Scan# 222
Delta R.T. -0.01 min
Lab File: VD061589.D
Acq: 4 Apr 2019 19:59

Tgt Ion: 43 Resp: 18224
Ion Ratio Lower Upper
43 100
74 29.5 16.7 25.1#





#20

Methvlene Chloride

Concen: 12.092 ug/l

RT: 3.79 min Scan# 240

Delta R.T. -0.01 min

Lab File: VD061589.D

Acq: 4 Apr 2019 19:59

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 84 Resp: 63073

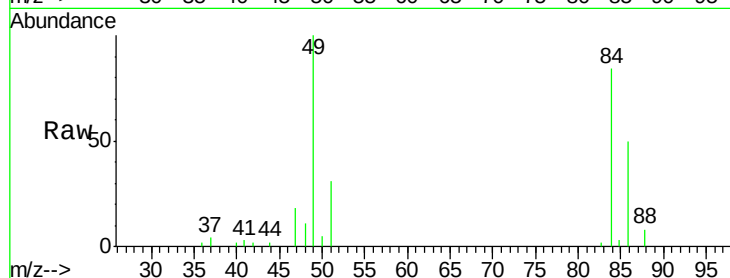
Ion Ratio Lower Upper

84 100

49 118.5 91.8 137.8

51 37.0 29.8 44.8

86 59.7 51.8 77.6

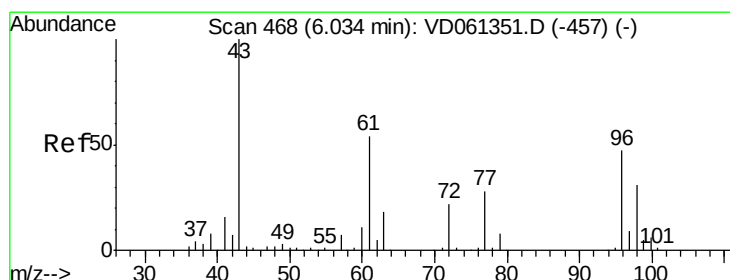
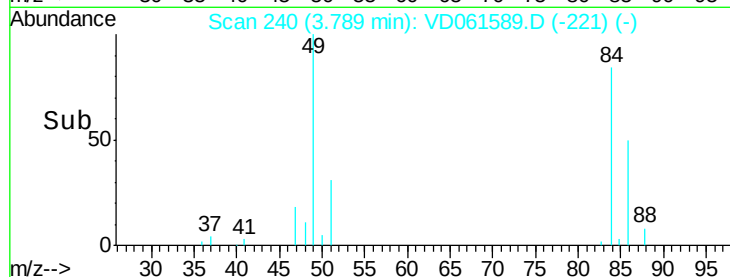
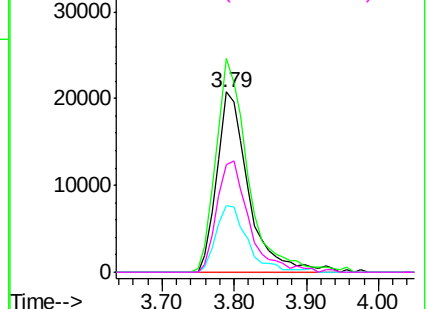


Abundance Ion 83.95 (83.65 to 84.65): VDC

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



#25

2-Butanone

Concen: 2.926 ug/l

RT: 6.04 min Scan# 469

Delta R.T. 0.01 min

Lab File: VD061589.D

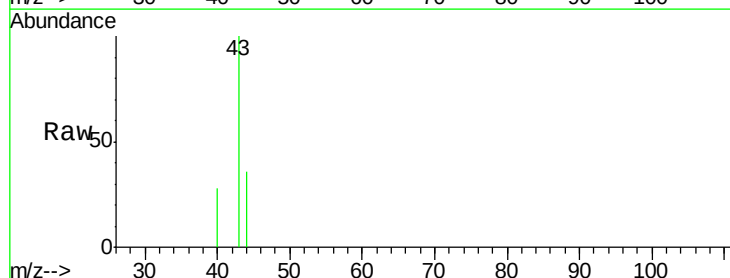
Acq: 4 Apr 2019 19:59

Tgt Ion: 43 Resp: 3059

Ion Ratio Lower Upper

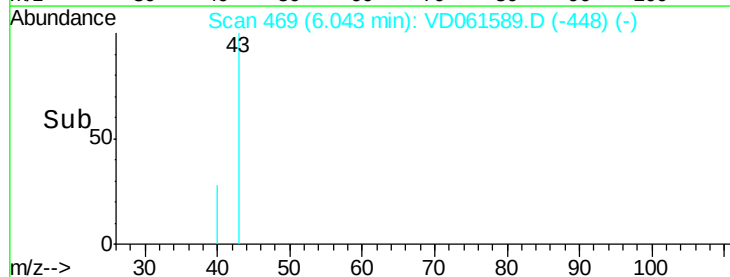
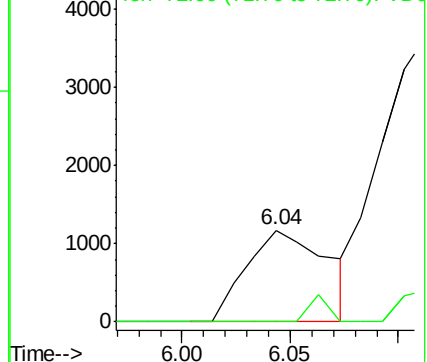
43 100

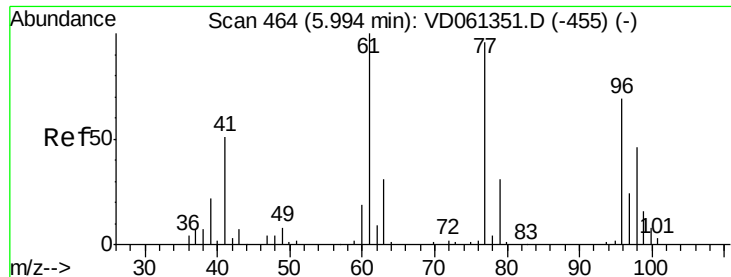
72 0.0 17.2 25.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#26

2,2-Dichloropropane

Concen: 2.865 ug/l

RT: 6.12 min Scan# 477

Delta R.T. 0.13 min

Lab File: VD061589.D

Acq: 4 Apr 2019 19:59

Instrument :

MSVOA_D

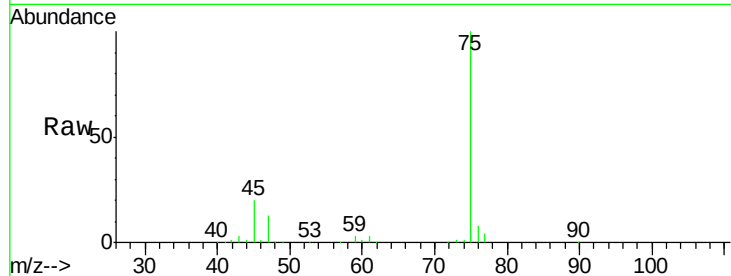
ClientSampleId :

Tot Ion: 77 Resp: 16046

Ion Ratio Lower Upper

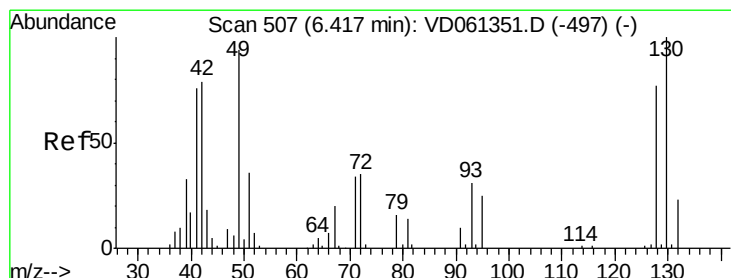
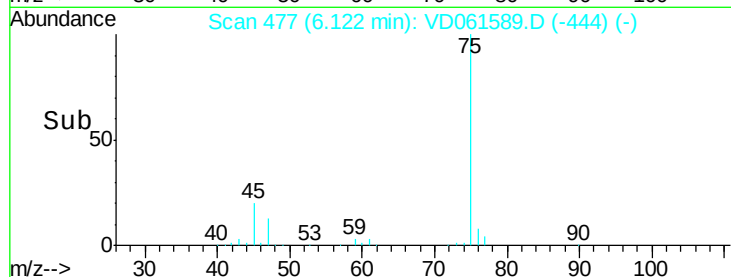
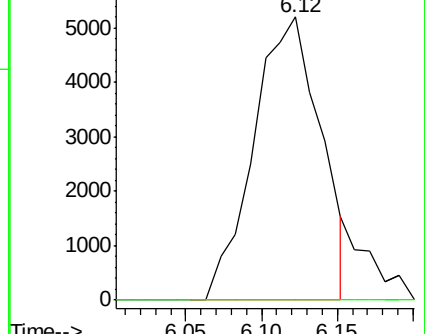
77 100

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: 2.568 ug/l

RT: 6.42 min Scan# 507

Delta R.T. 0.00 min

Lab File: VD061589.D

Acq: 4 Apr 2019 19:59

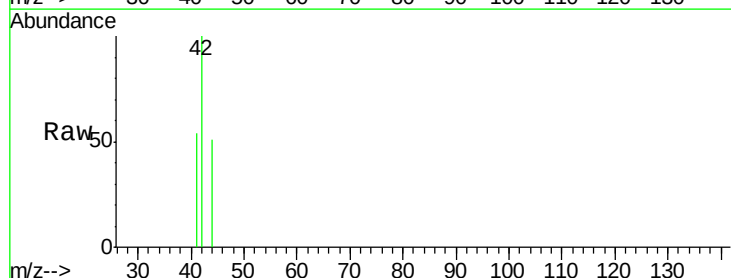
Tgt Ion: 42 Resp: 1301

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

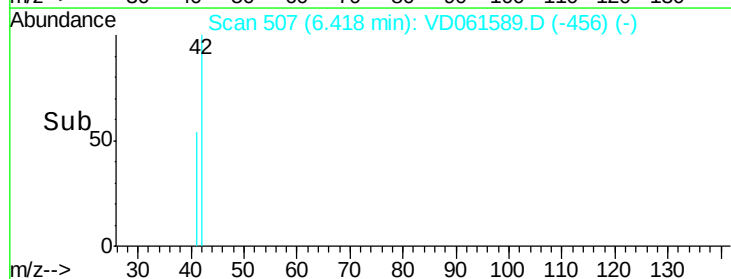
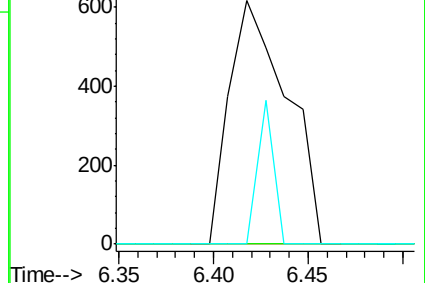
71 16.4 36.7 55.1#

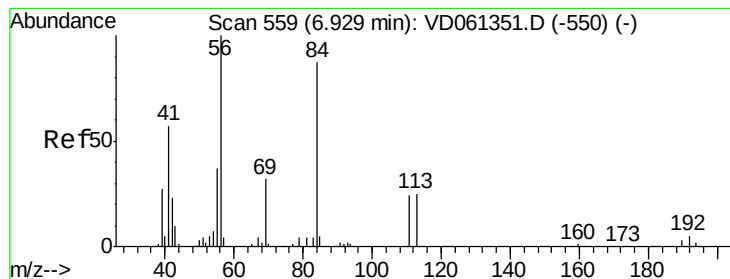


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.154 ug/l

RT: 7.01 min Scan# 567

Delta R.T. 0.08 min

Lab File: VD061589.D

Acq: 4 Apr 2019 19:59

Instrument :

MSVOA_D

ClientSampleId :

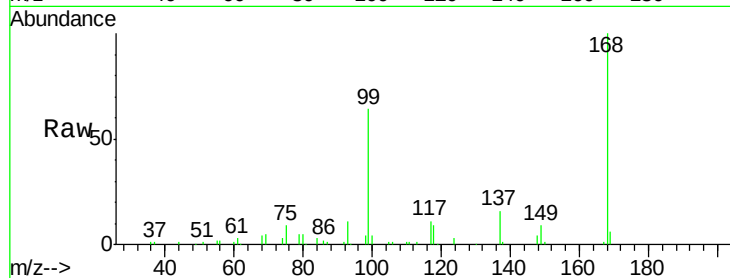
Tot Ion: 56 Resp: 6427

Ion Ratio Lower Upper

56 100

69 250.8 25.7 38.5#

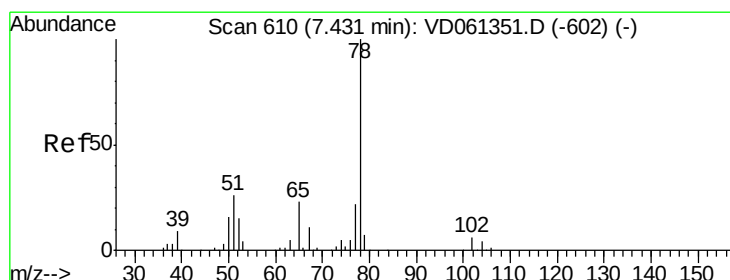
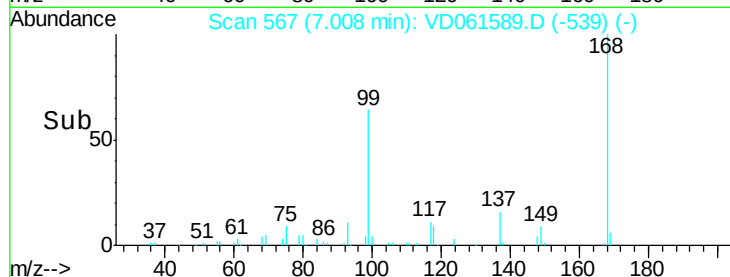
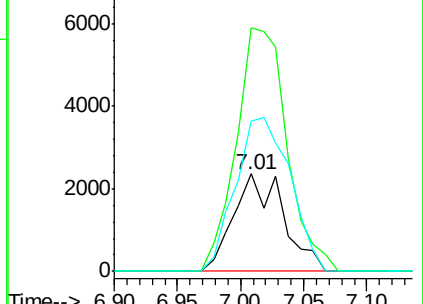
84 154.9 70.6 105.8#



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: N.D. ug/l

RT: 7.42 min Scan# 609

Delta R.T. -0.01 min

Lab File: VD061589.D

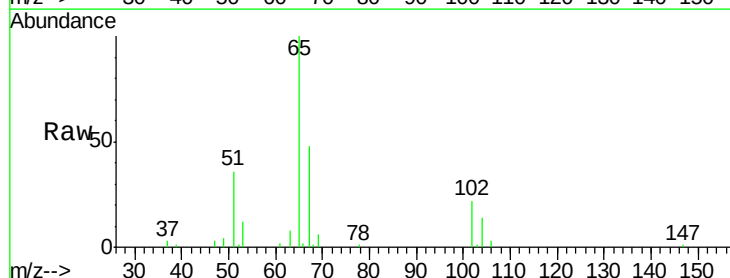
Acq: 4 Apr 2019 19:59

Tgt Ion: 65 Resp: 190838

Ion Ratio Lower Upper

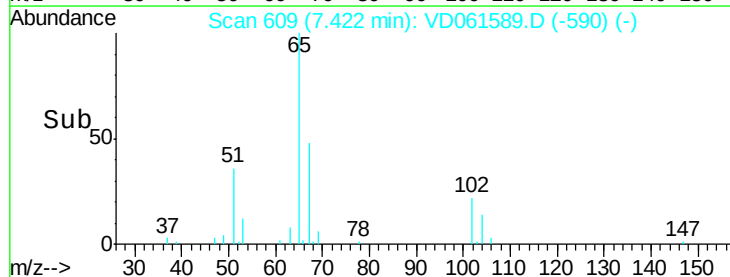
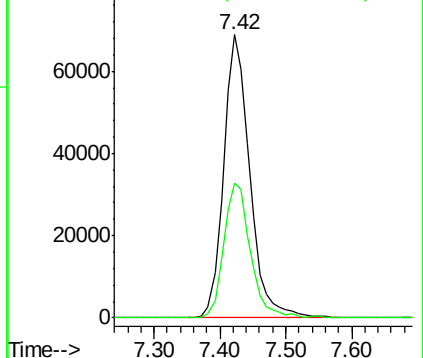
65 100

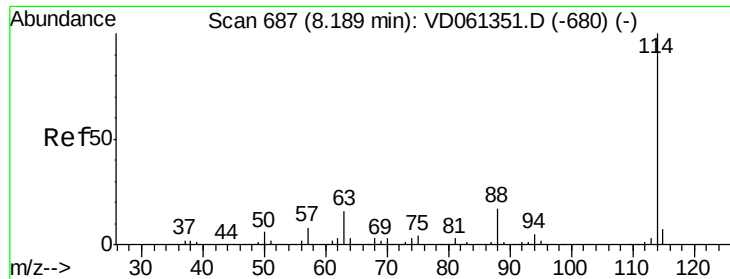
67 47.7 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

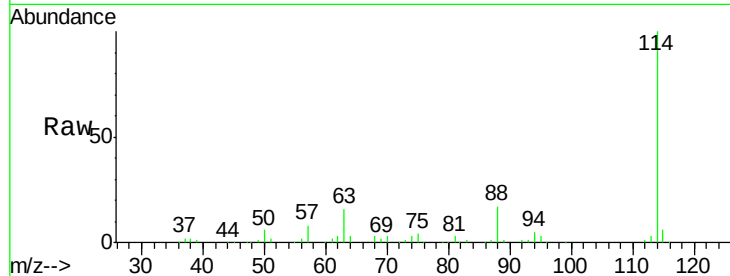




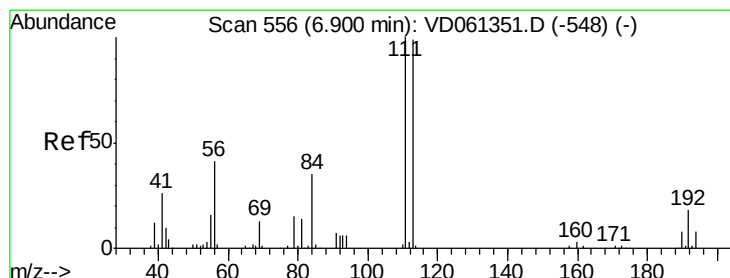
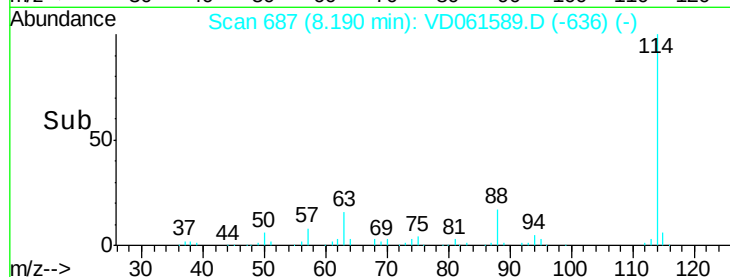
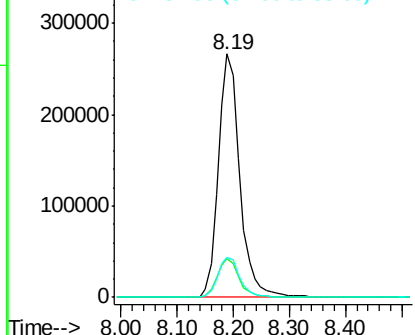
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.19 min Scan# 687
 Delta R.T. 0.00 min
 Lab File: VD061589.D
 Acq: 4 Apr 2019 19:59

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 713739
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 31.6
 88 16.6 0.0 33.4

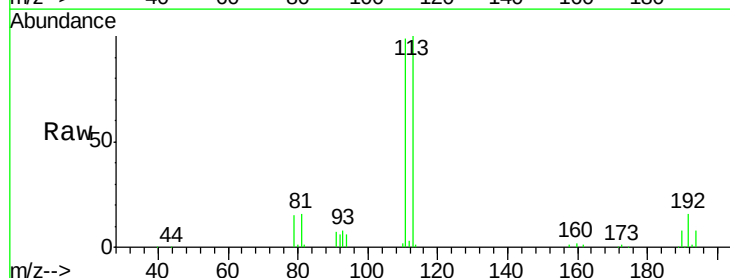


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

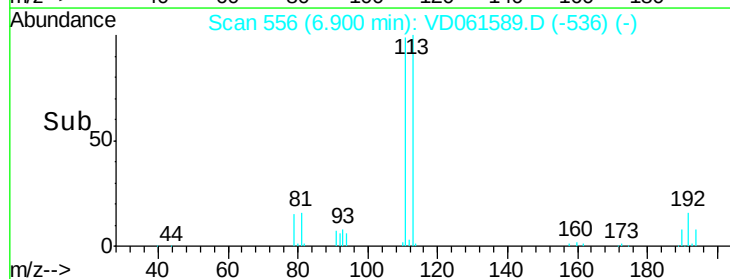
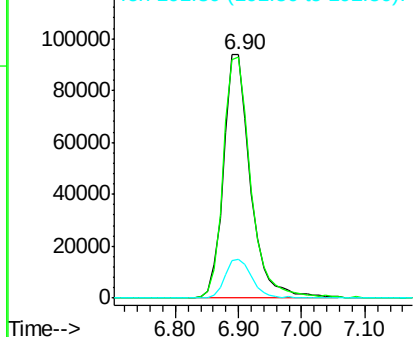


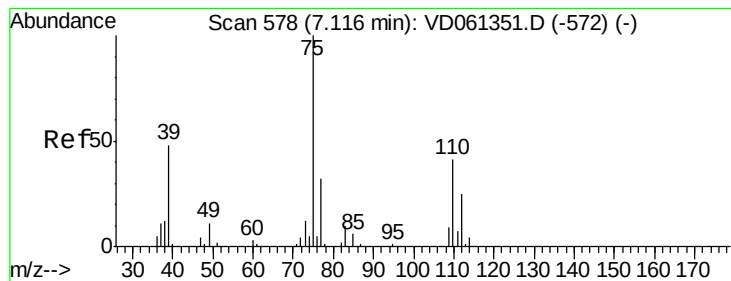
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.90 min Scan# 556
 Delta R.T. 0.00 min
 Lab File: VD061589.D
 Acq: 4 Apr 2019 19:59

Tgt Ion:113 Resp: 276643
 Ion Ratio Lower Upper
 113 100
 111 99.2 81.0 121.6
 192 15.9 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: 4.652 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.10 min

Lab File: VD061589.D

Acq: 4 Apr 2019 19:59

Instrument :

MSVOA_D

ClientSampled :

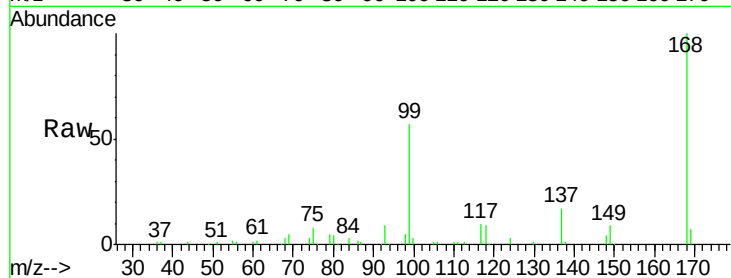
Tot Ion: 75 Resp: 28981

Ion Ratio Lower Upper

75 100

110 6.3 20.4 61.3#

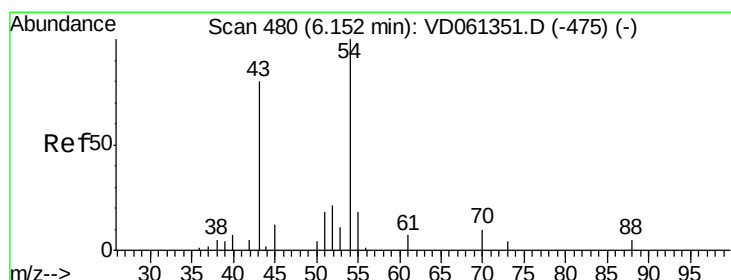
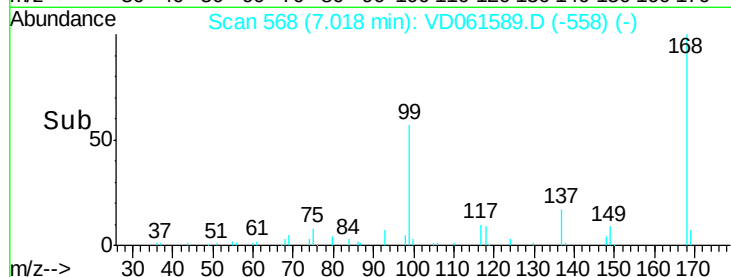
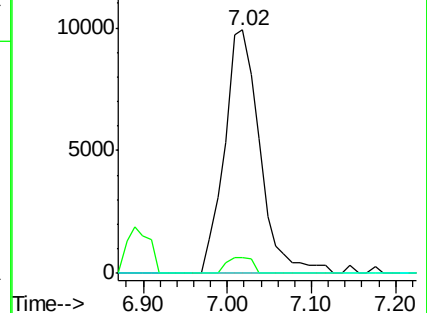
77 0.0 24.9 37.3#



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: 4.850 ug/l

RT: 6.12 min Scan# 477

Delta R.T. -0.03 min

Lab File: VD061589.D

Acq: 4 Apr 2019 19:59

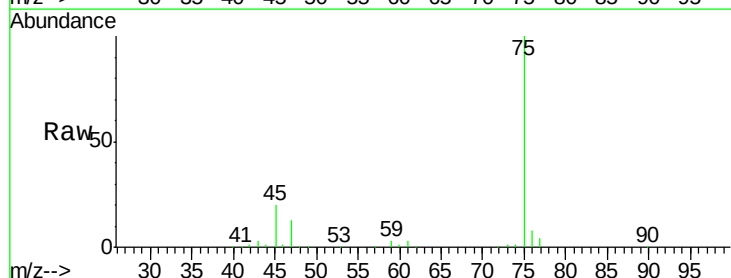
Tgt Ion: 43 Resp: 12920

Ion Ratio Lower Upper

43 100

61 93.7 13.8 20.8#

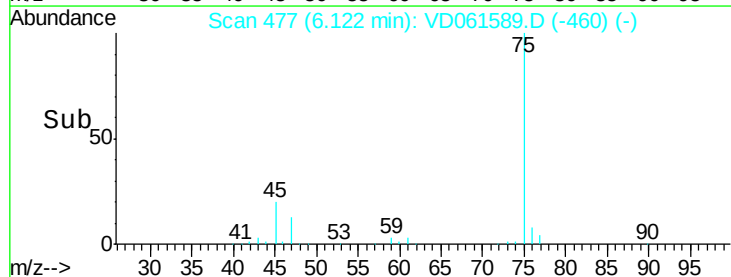
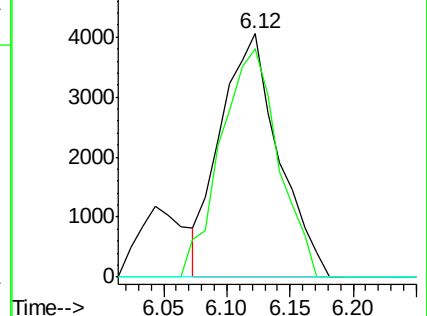
70 0.0 7.8 11.8#

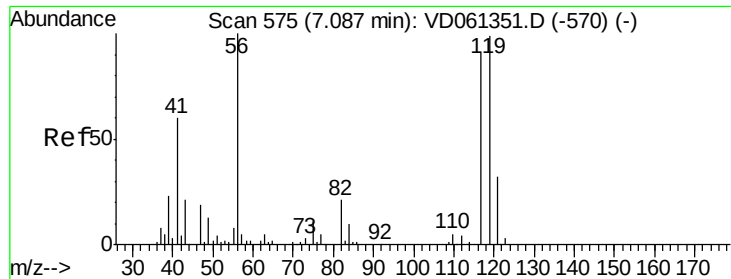


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.233 ug/l

RT: 7.02 min Scan# 568

Delta R.T. -0.07 min

Lab File: VD061589.D

Acq: 4 Apr 2019 19:59

Instrument :

MSVOA_D

ClientSampleId :

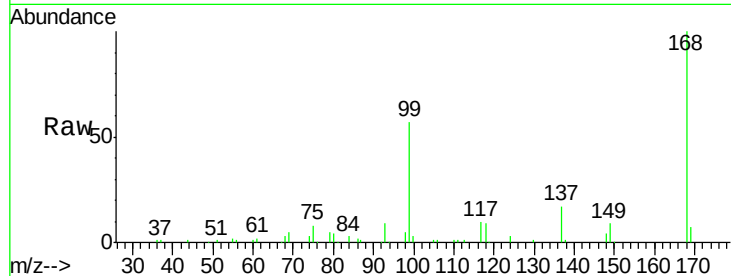
Tot Ion:117 Resp: 37458

Ion Ratio Lower Upper

117 100

119 4.3 80.1 120.1#

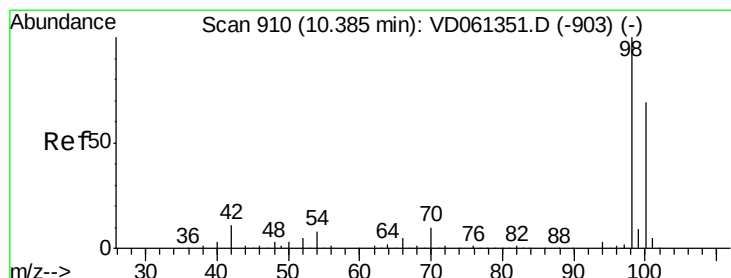
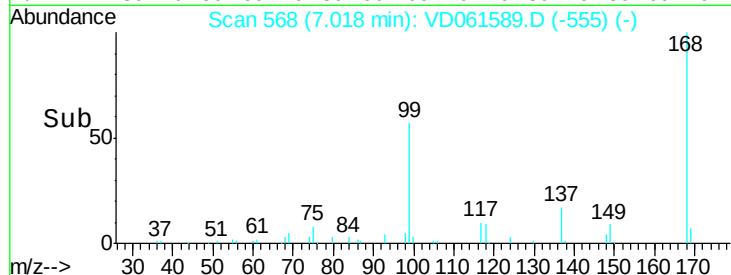
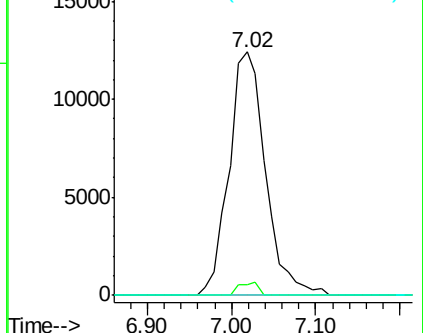
121 0.0 25.6 38.4#



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: 10.38 min Scan# 910

Delta R.T. 0.00 min

Lab File: VD061589.D

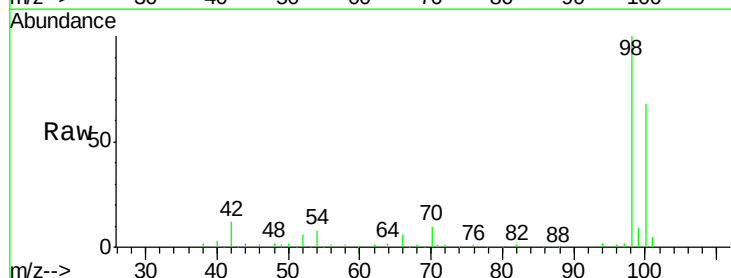
Acq: 4 Apr 2019 19:59

Tgt Ion: 98 Resp: 427559

Ion Ratio Lower Upper

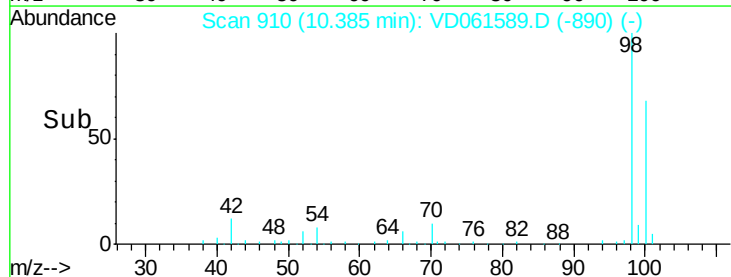
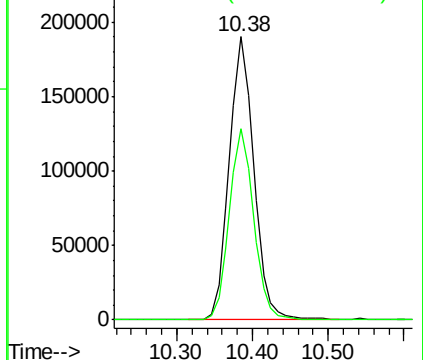
98 100

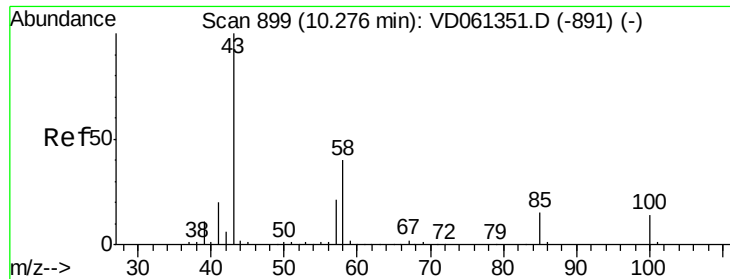
100 67.6 56.2 84.2



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.104 ug/l

RT: 10.29 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD061589.D

Acq: 4 Apr 2019 19:59

Instrument :

MSVOA_D

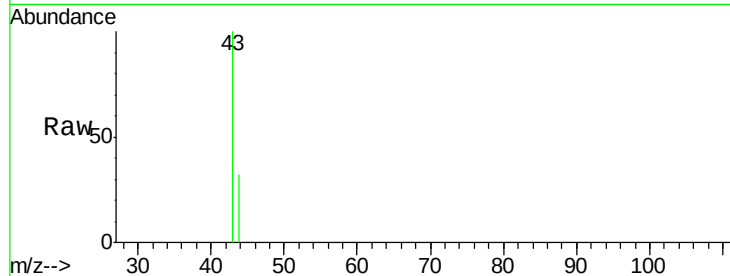
ClientSampleId :

Tot Ion: 43 Resp: 2603

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.29

1000

800

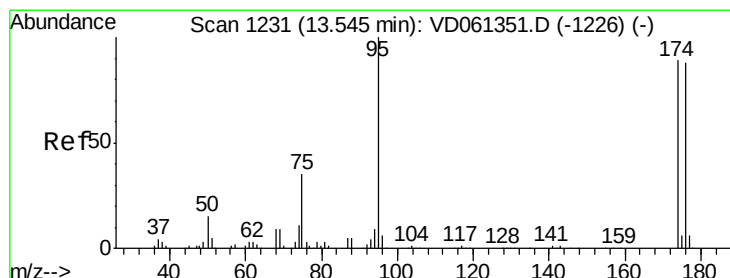
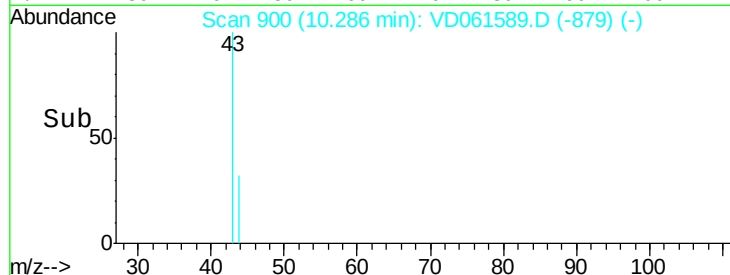
600

400

200

0

Time--> 10.20 10.25 10.30



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.00 min

Lab File: VD061589.D

Acq: 4 Apr 2019 19:59

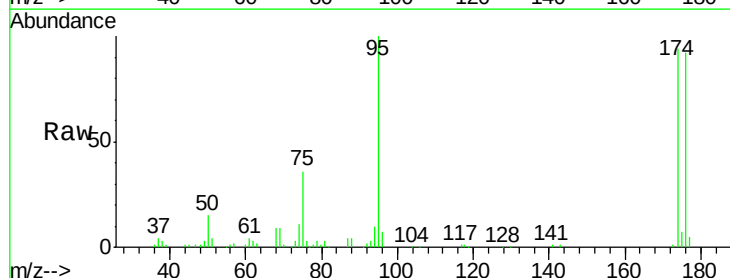
Tgt Ion: 95 Resp: 186510

Ion Ratio Lower Upper

95 100

174 93.9 0.0 178.0

176 92.1 0.0 175.0



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

13.54

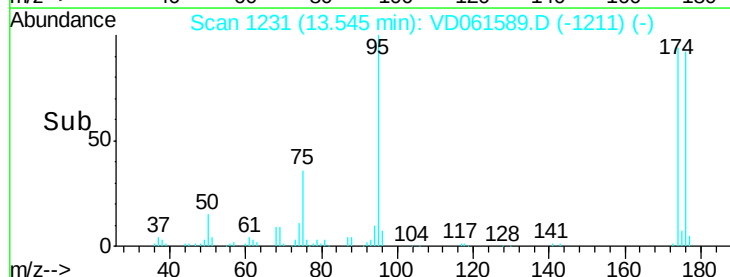
150000

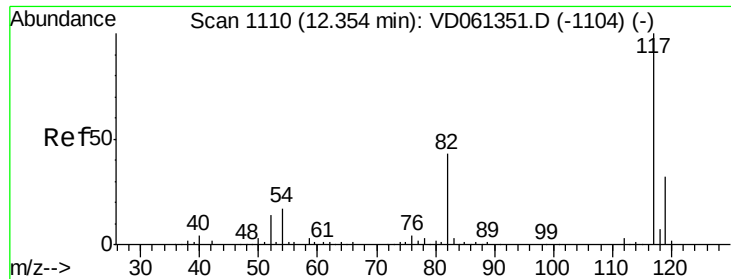
100000

50000

0

Time--> 13.45 13.50 13.55 13.60

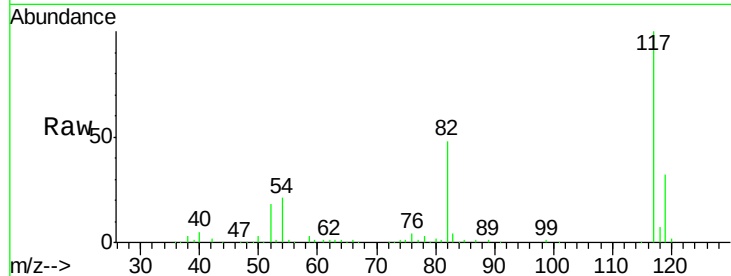




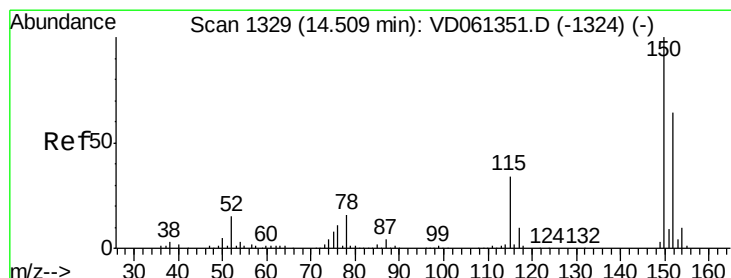
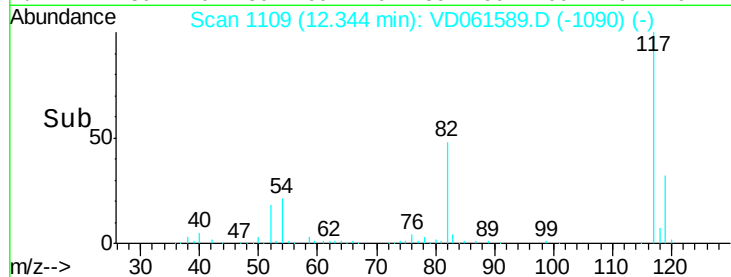
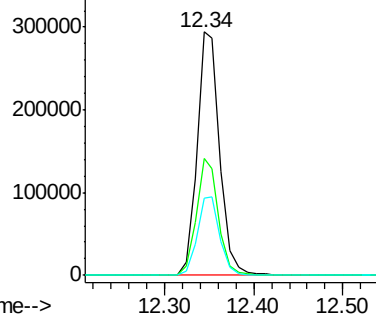
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.34 min Scan# 1109
Delta R.T. -0.01 min
Lab File: VD061589.D
Acq: 4 Apr 2019 19:59

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 526195
Ion Ratio Lower Upper
117 100
82 47.9 34.4 51.6
119 31.5 25.8 38.6

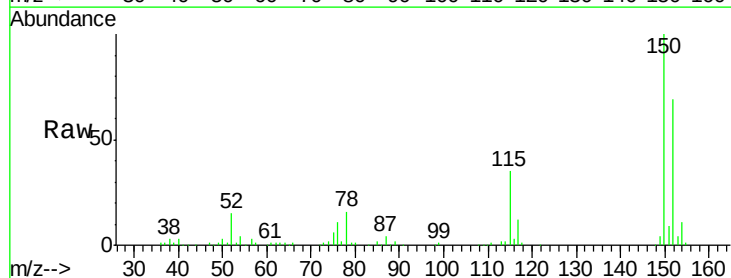


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

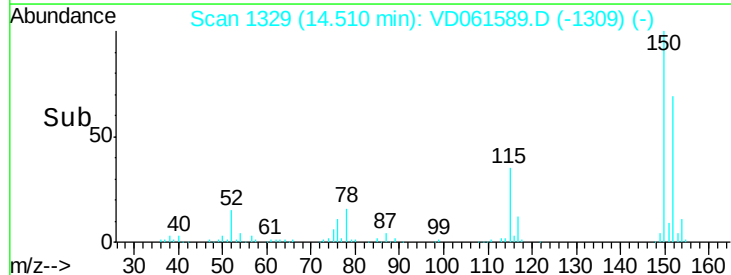
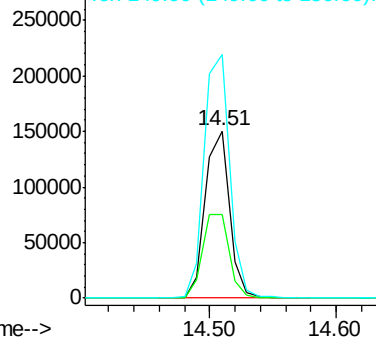


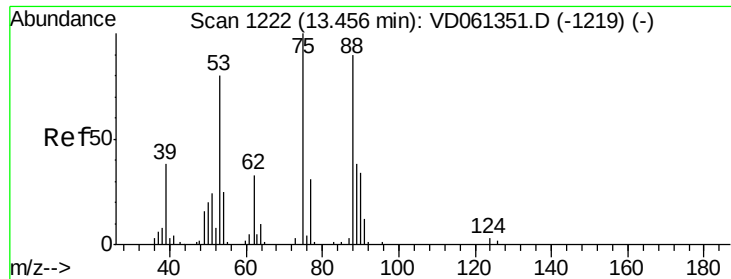
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. 0.00 min
Lab File: VD061589.D
Acq: 4 Apr 2019 19:59

Tgt Ion:152 Resp: 199410
Ion Ratio Lower Upper
152 100
115 50.4 26.9 80.6
150 145.6 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





#81

trans-1,4-Dichloro-2-butene

Concen: 79.137 ug/l

RT: 13.53 min Scan# 1230

Delta R.T. 0.08 min

Lab File: VD061589.D

Acq: 4 Apr 2019 19:59

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 69504

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#

