

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122118\
 Data File : VD060696.D
 Acq On : 21 Dec 2018 20:59
 Operator : VA/AP
 Sample : J6525-02
 Misc : 5.05µl/5ml/MSVOA D/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S-2(5)

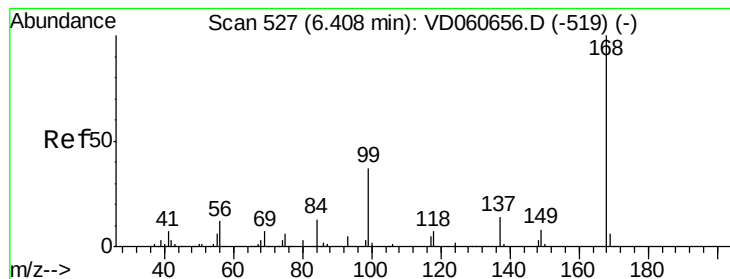
Quant Time: Dec 21 22:29:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.44	168	1224426	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	7.48	114	1633377	50.00	ug/l	0.03
63) Chlorobenzene-d5	11.31	117	1141215	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	13.39	152	370083	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.83	65	455807	53.87	ug/l	0.03
Spiked Amount			Recovery	=	107.74%	
35) Dibromofluoromethane	6.35	113	601167	50.29	ug/l	0.02
Spiked Amount			Recovery	=	100.58%	
50) Toluene-d8	9.49	98	1487035	41.69	ug/l	0.03
Spiked Amount			Recovery	=	83.38%	
62) 4-Bromofluorobenzene	12.45	95	372116	29.79	ug/l	0.02
Spiked Amount			Recovery	=	59.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.99	59	8935	25.266	ug/l #	74
16) Acetone	3.18	43	33506	22.674	ug/l #	90
18) Methyl Acetate	3.59	43	5682	1.552	ug/l #	63
20) Methylene Chloride	3.75	84	20182	1.315	ug/l #	93
25) 2-Butanone	5.68	43	58967	20.853	ug/l #	82
26) 2,2-Dichloropropane	5.68	77	66576	3.798	ug/l #	49
29) Tetrahydrofuran	5.68	42	16440	10.256	ug/l #	67
31) Cyclohexane	6.43	56	22143	1.036	ug/l #	1
36) 1,1-Dichloropropene	6.43	75	90144	5.360	ug/l #	44
37) Ethyl Acetate	5.68	43	59189	8.414	ug/l #	1
38) Carbon Tetrachloride	6.44	117	96108	6.477	ug/l #	16
51) 4-Methyl-2-Pentanone	9.48	43	8297	1.500	ug/l #	1
76) 1,2,3-Trichloropropane	12.45	75	160207	38.024	ug/l #	44
81) trans-1,4-Dichloro-2-buten	12.45	75	160180	137.583	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.44 min Scan# 530

Delta R.T. 0.03 min

Lab File: VD060696.D

Acq: 21 Dec 2018 20:59

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MSVOA_D

ClientSampleId :

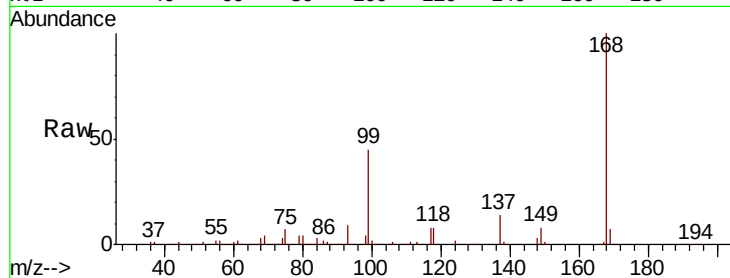
S-2(5)

Tot Ion:168 Resp: 1224426

Ion Ratio Lower Upper

168 100

99 45.4 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.44

500000

400000

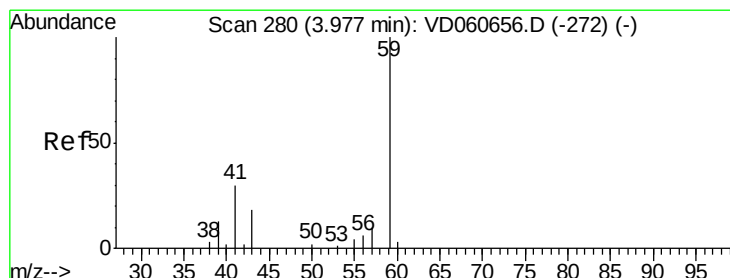
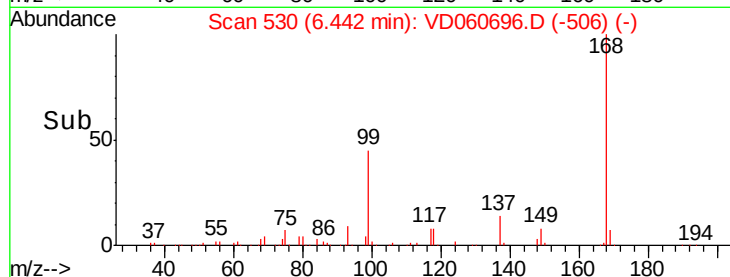
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 25.266 ug/l

RT: 3.99 min Scan# 281

Delta R.T. 0.01 min

Lab File: VD060696.D

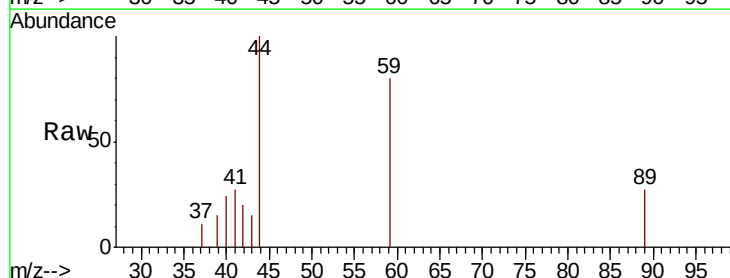
Acq: 21 Dec 2018 20:59

Tgt Ion: 59 Resp: 8935

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

12000

10000

8000

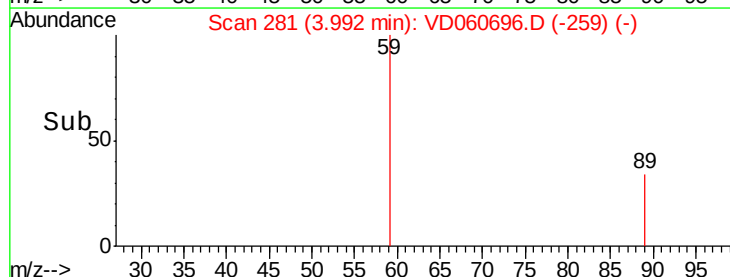
6000

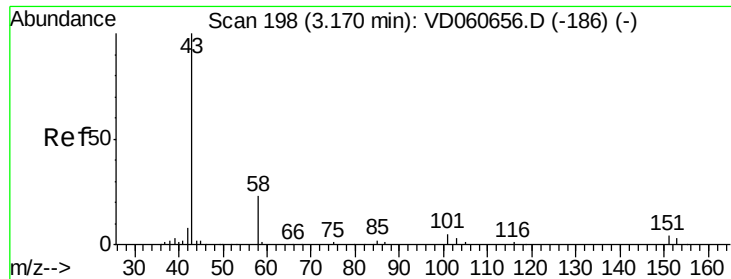
4000

2000

0

Time-->





#16

Acetone

Concen: 22.674 ug/l

RT: 3.18 min Scan# 199

Delta R.T. 0.01 min

Lab File: VD060696.D

Acq: 21 Dec 2018 20:59

Instrument :

MSVOA_D

ClientSampleId :

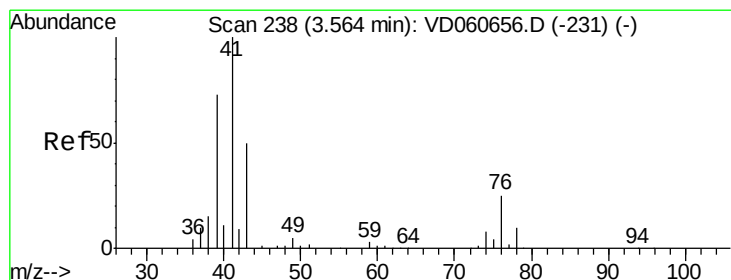
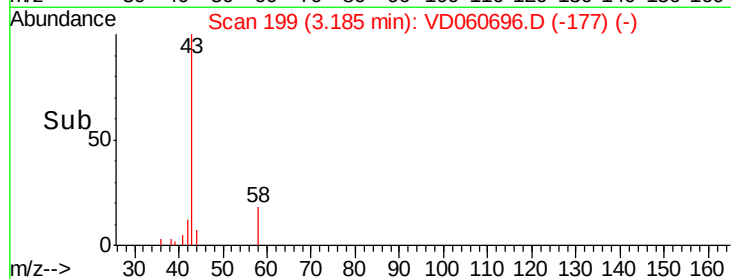
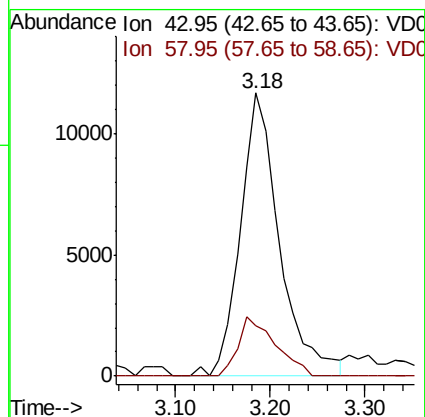
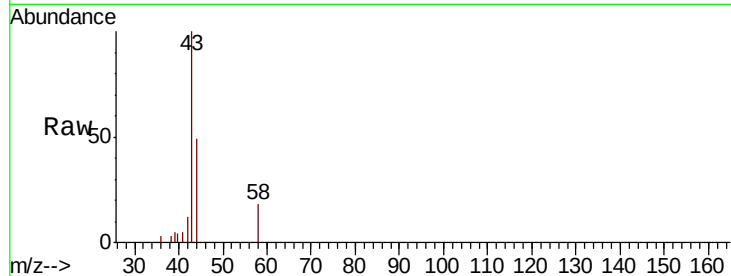
S-2(5)

Tot Ion: 43 Resp: 33506

Ion Ratio Lower Upper

43 100

58 17.8 18.2 27.2#



#18

Methyl Acetate

Concen: 1.552 ug/l

RT: 3.59 min Scan# 240

Delta R.T. 0.02 min

Lab File: VD060696.D

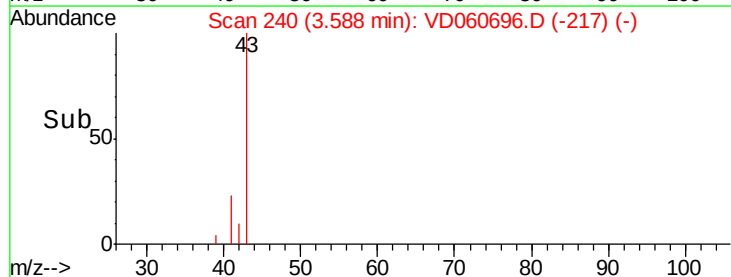
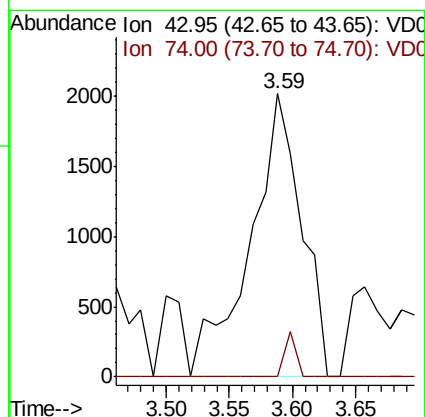
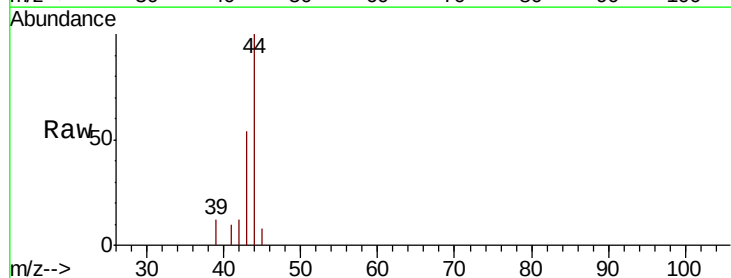
Acq: 21 Dec 2018 20:59

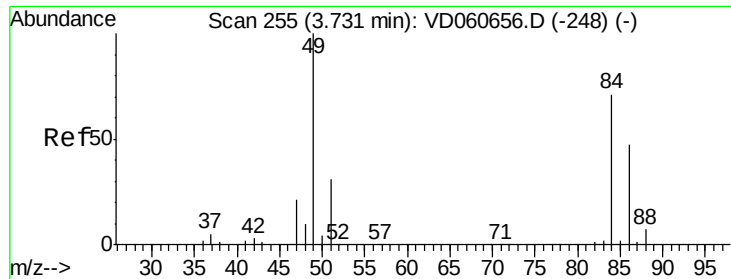
Tgt Ion: 43 Resp: 5682

Ion Ratio Lower Upper

43 100

74 0.0 12.4 18.6#

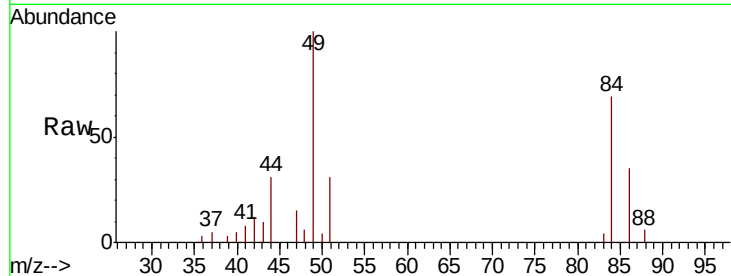




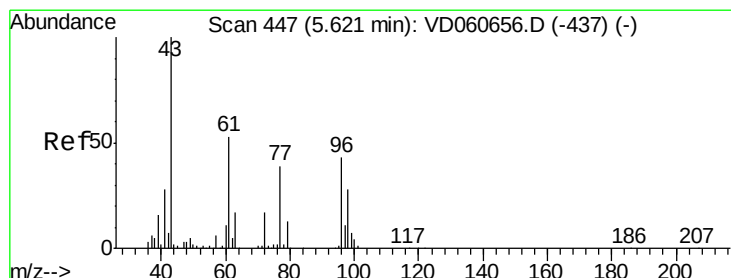
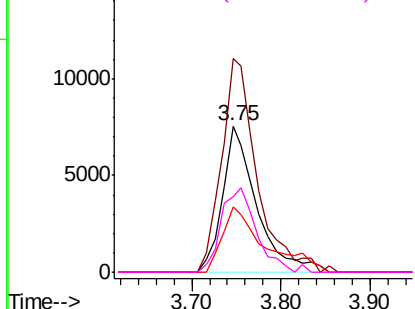
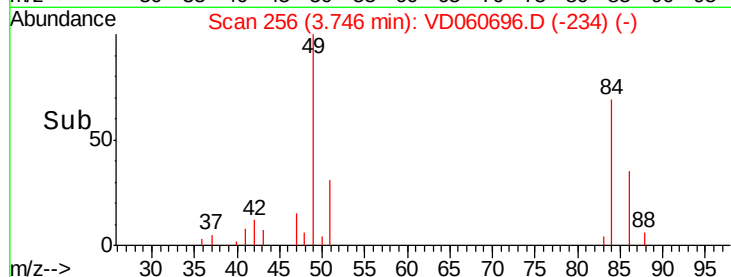
#20
Methvlene Chloride
Concen: 1.315 ug/l
RT: 3.75 min Scan# 256
Delta R.T. 0.01 min
Lab File: VD060696.D
Acq: 21 Dec 2018 20:59

Instrument :
MSVOA_D
ClientSampleId :
S-2(5)

Tot Ion: 84 Resp: 20182
Ion Ratio Lower Upper
84 100
49 145.9 113.6 170.4
51 44.7 34.7 52.1
86 51.3 52.8 79.2#

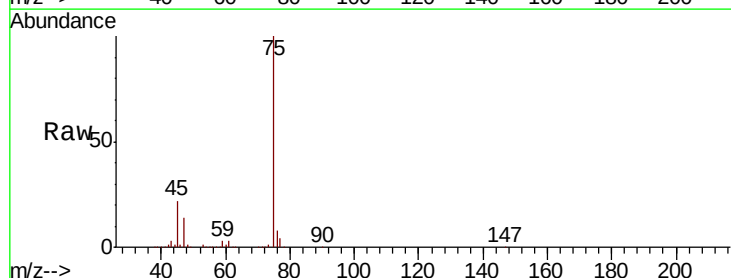


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

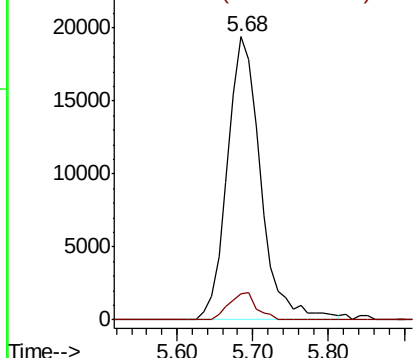
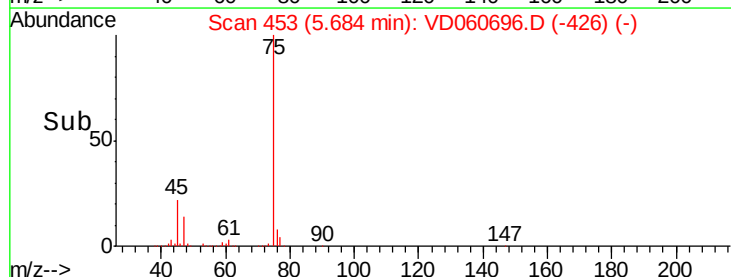


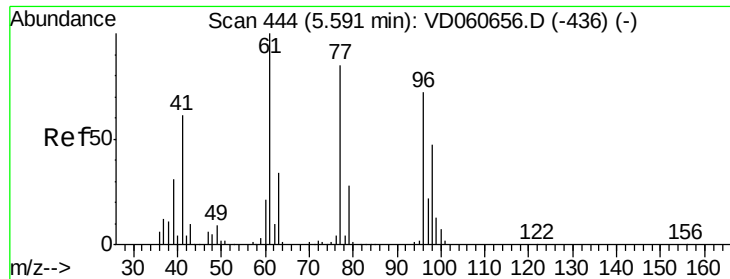
#25
2-Butanone
Concen: 20.853 ug/l
RT: 5.68 min Scan# 453
Delta R.T. 0.06 min
Lab File: VD060696.D
Acq: 21 Dec 2018 20:59

Tgt Ion: 43 Resp: 58967
Ion Ratio Lower Upper
43 100
72 9.4 13.7 20.5#



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

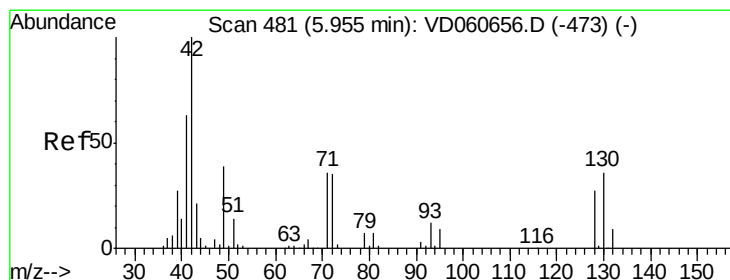
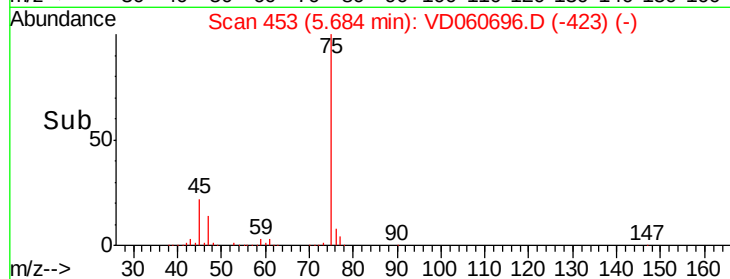
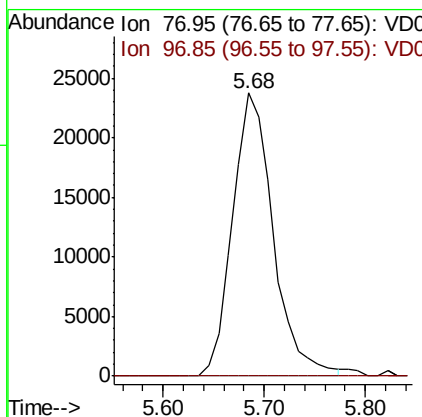
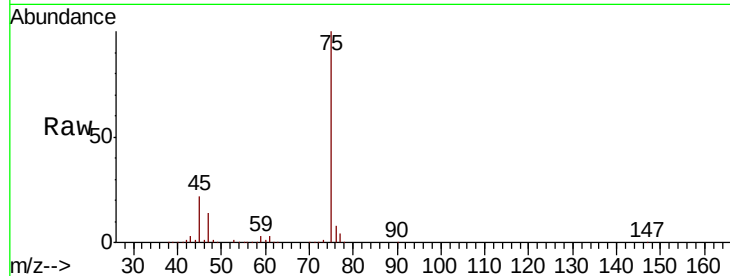




#26
 2,2-Dichloropropane
 Concen: 3.798 ug/l
 RT: 5.68 min Scan# 453
 Delta R.T. 0.09 min
 Lab File: VD060696.D
 Acq: 21 Dec 2018 20:59

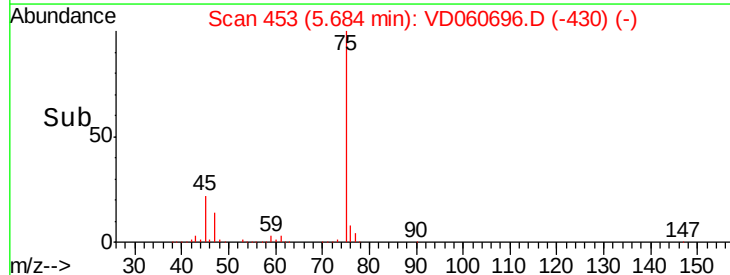
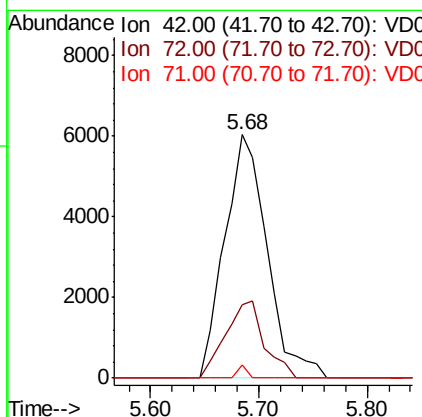
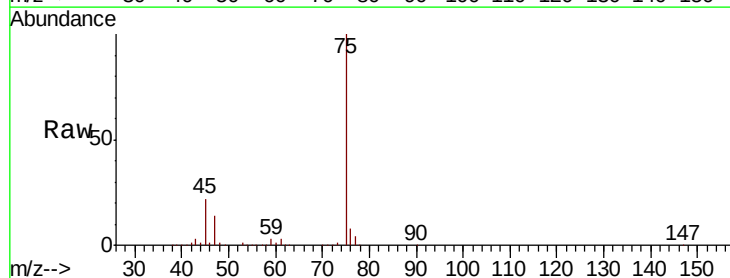
Instrument :
 MSVOA_D
 ClientSampled :
 S-2(5)

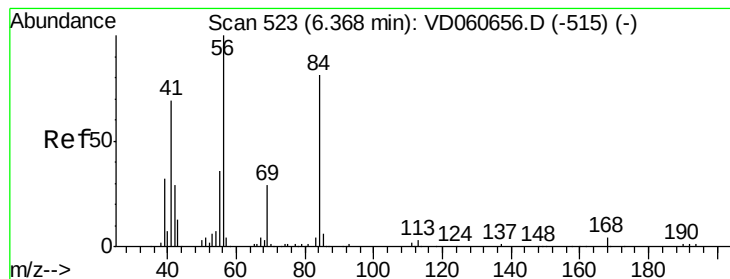
Tot Ion: 77 Resp: 66576
 Ion Ratio Lower Upper
 77 100
 97 0.0 13.0 39.0#



#29
 Tetrahydrofuran
 Concen: 10.256 ug/l
 RT: 5.68 min Scan# 453
 Delta R.T. -0.27 min
 Lab File: VD060696.D
 Acq: 21 Dec 2018 20:59

Tgt Ion: 42 Resp: 16440
 Ion Ratio Lower Upper
 42 100
 72 28.9 28.0 42.0
 71 1.2 27.0 40.6#





#31

Cyclohexane

Concen: 1.036 ug/l

RT: 6.43 min Scan# 529

Delta R.T. 0.06 min

Lab File: VD060696.D

Acq: 21 Dec 2018 20:59

Instrument :

MSVOA_D

ClientSampleId :

S-2(5)

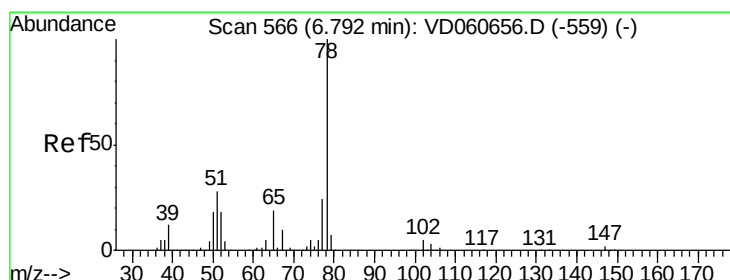
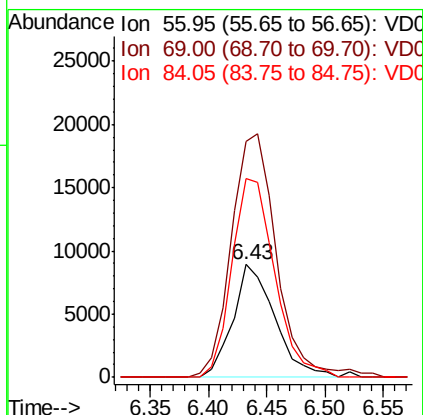
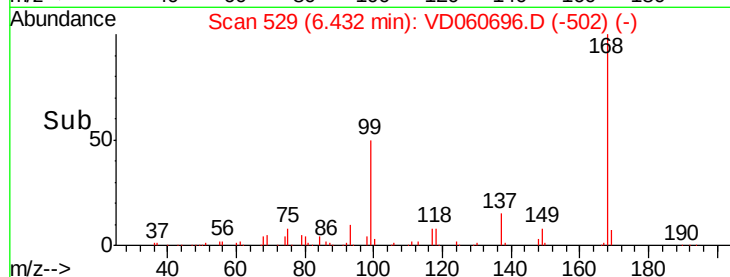
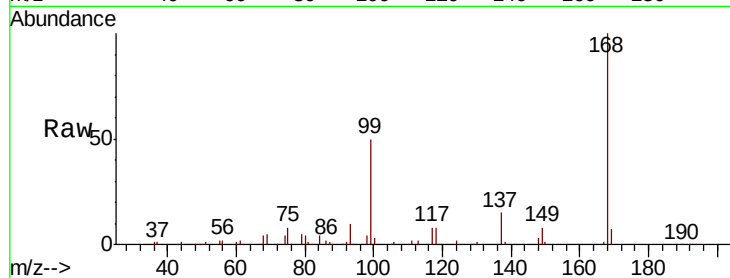
Tot Ion: 56 Resp: 22143

Ion Ratio Lower Upper

56 100

69 209.7 23.6 35.4#

84 176.1 65.8 98.6#



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.83 min Scan# 569

Delta R.T. 0.03 min

Lab File: VD060696.D

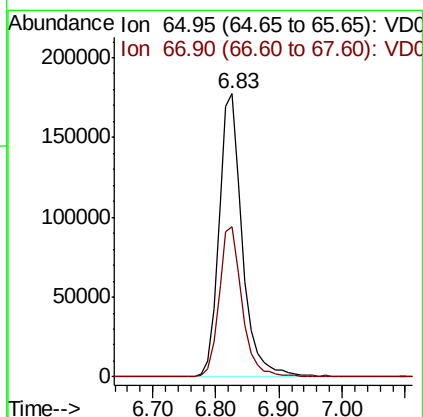
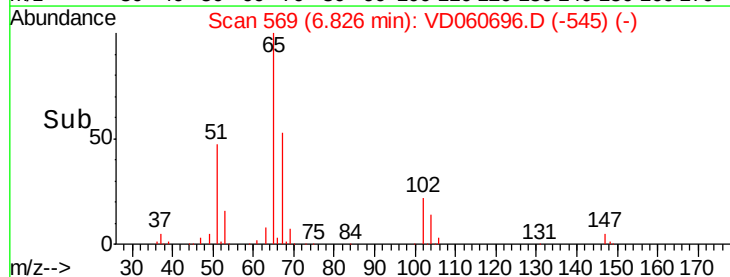
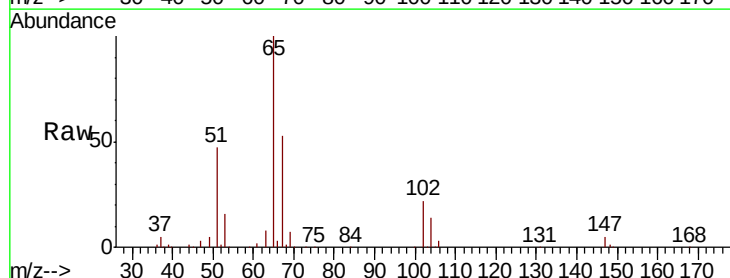
Acq: 21 Dec 2018 20:59

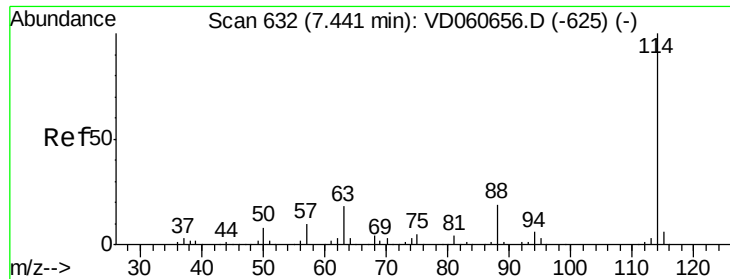
Tgt Ion: 65 Resp: 455807

Ion Ratio Lower Upper

65 100

67 53.2 0.0 105.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.48 min Scan# 635

Delta R.T. 0.03 min

Lab File: VD060696.D

Acq: 21 Dec 2018 20:59

Instrument :

MSVOA_D

ClientSampleId :

S-2(5)

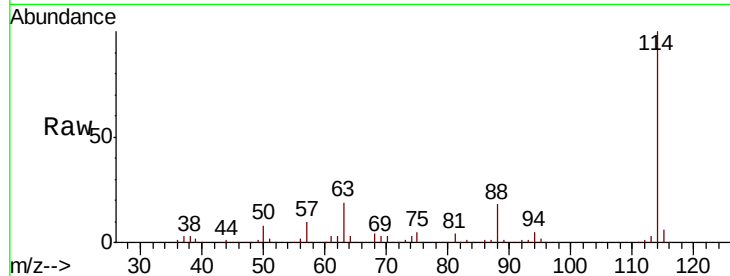
Tot Ion:114 Resp: 1633377

Ion Ratio Lower Upper

114 100

63 18.6 0.0 36.2

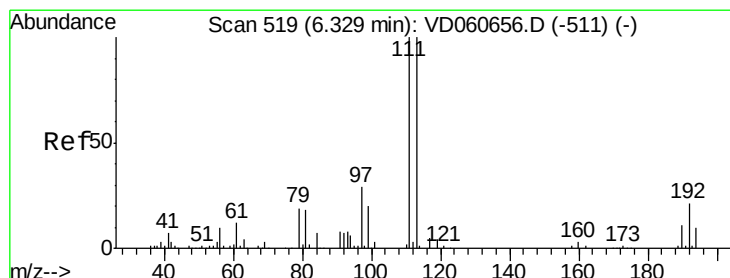
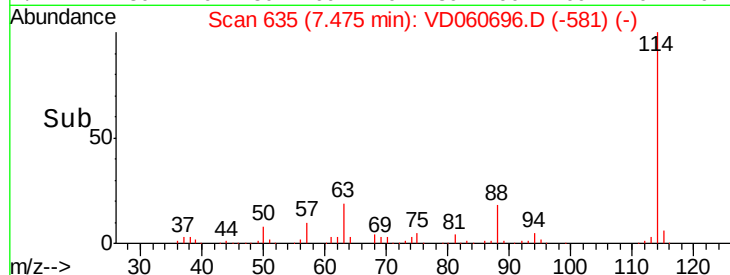
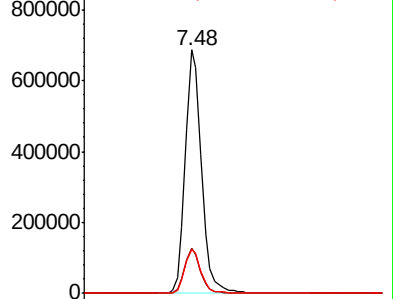
88 18.1 0.0 37.0



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: 6.35 min Scan# 521

Delta R.T. 0.02 min

Lab File: VD060696.D

Acq: 21 Dec 2018 20:59

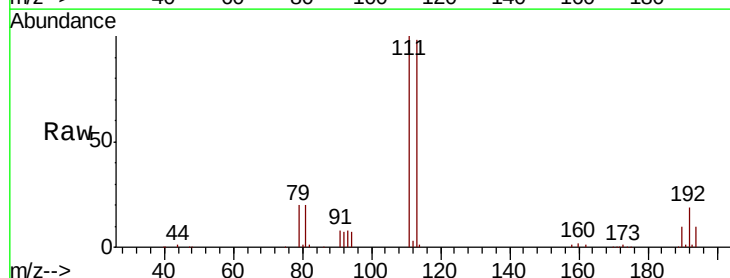
Tgt Ion:113 Resp: 601167

Ion Ratio Lower Upper

113 100

111 102.5 80.0 120.0

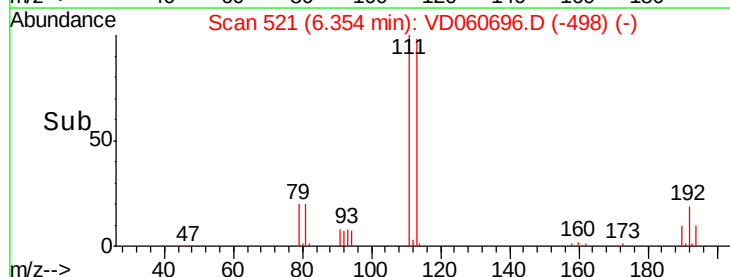
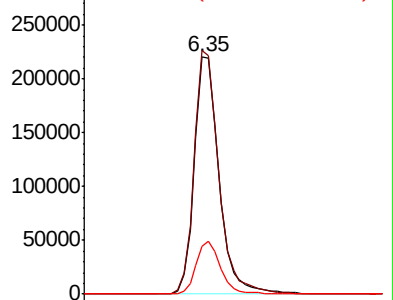
192 19.9 16.6 25.0

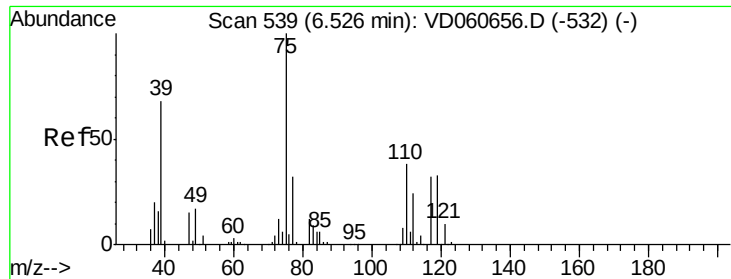


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

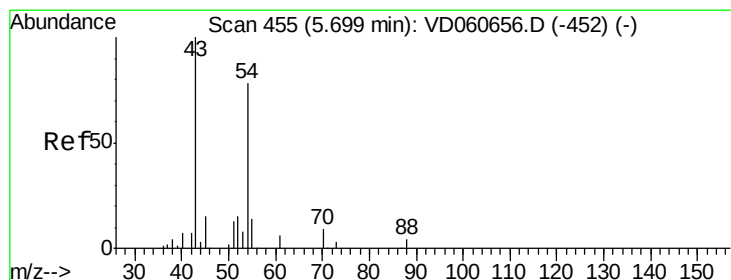
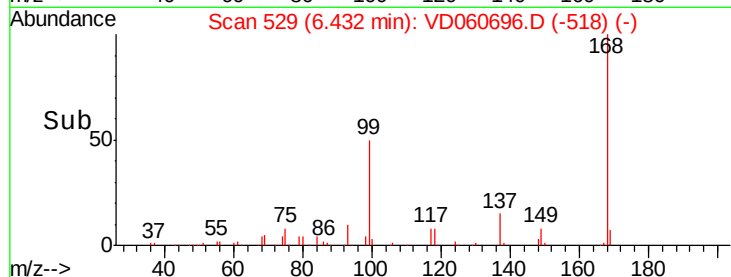
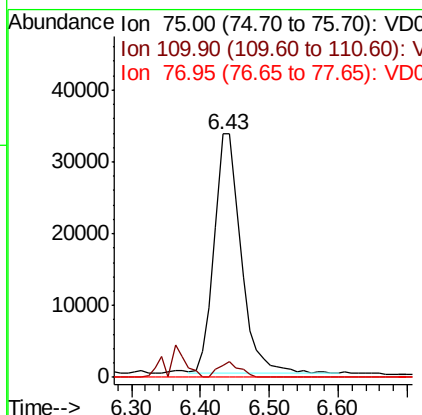
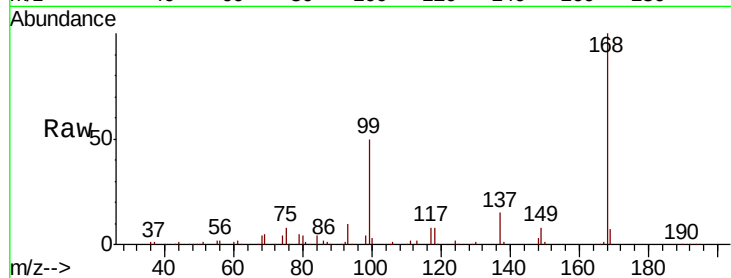




#36
 1,1-Dichloropropene
 Concen: 5.360 ug/l
 RT: 6.43 min Scan# 529
 Delta R.T. -0.09 min
 Lab File: VD060696.D
 Acq: 21 Dec 2018 20:59

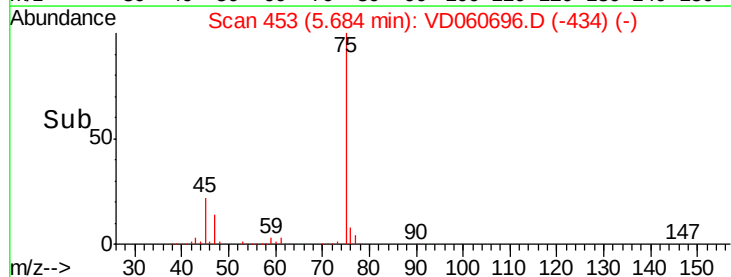
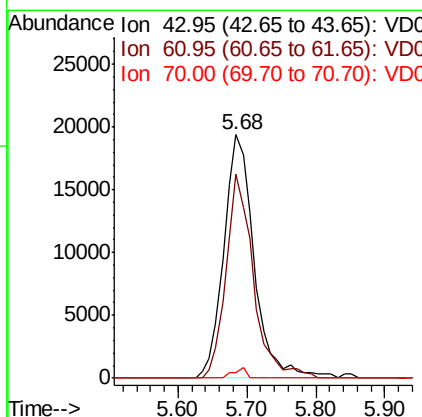
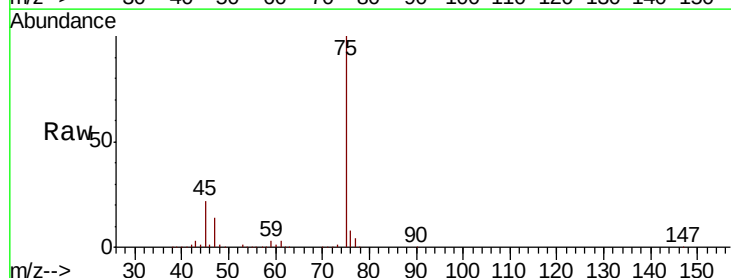
Instrument :
 MSVOA_D
 ClientSampleId :
 S-2(5)

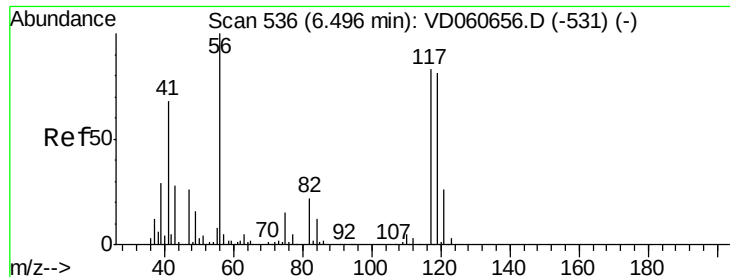
Tot Ion	Ratio	Lower	Upper
75	100		
110	4.8	18.9	56.7#
77	0.0	25.4	38.0#



#37
 Ethyl Acetate
 Concen: 8.414 ug/l
 RT: 5.68 min Scan# 453
 Delta R.T. -0.01 min
 Lab File: VD060696.D
 Acq: 21 Dec 2018 20:59

Tgt Ion	Ratio	Lower	Upper
43	100		
61	83.5	11.8	17.6#
70	2.5	5.8	8.6#





#38

Carbon Tetrachloride

Concen: 6.477 ug/l

RT: 6.44 min Scan# 530

Delta R.T. -0.05 min

Lab File: VD060696.D

Acq: 21 Dec 2018 20:59

Instrument :

MSVOA_D

ClientSampleId :

S-2(5)

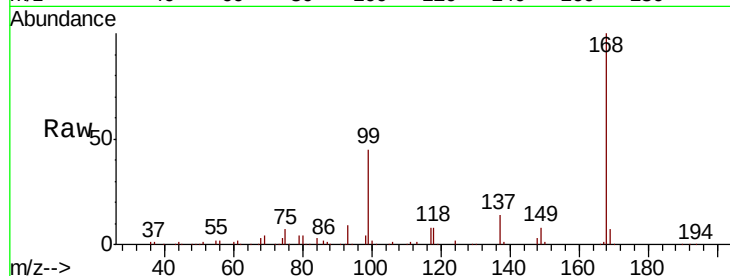
Tot Ion:117 Resp: 96108

Ion Ratio Lower Upper

117 100

119 5.2 77.0 115.4#

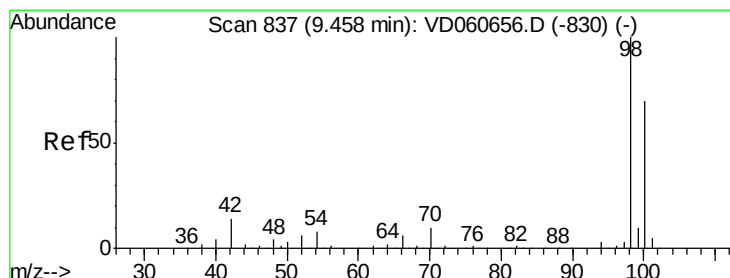
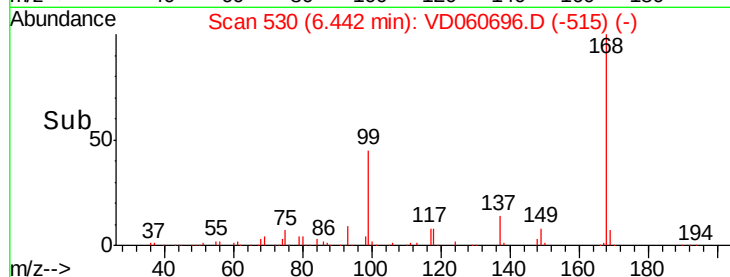
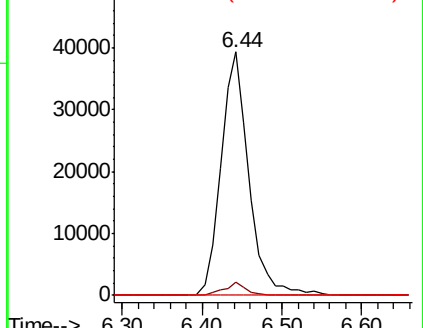
121 0.0 24.7 37.1#



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: 9.49 min Scan# 840

Delta R.T. 0.03 min

Lab File: VD060696.D

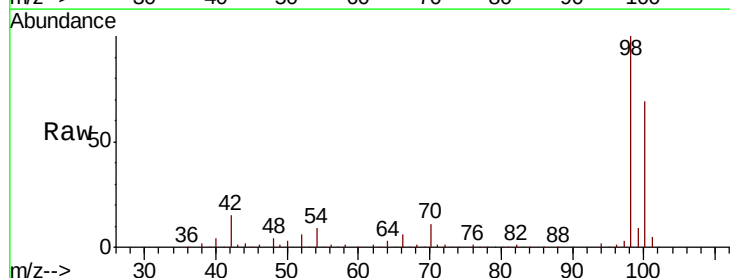
Acq: 21 Dec 2018 20:59

Tgt Ion: 98 Resp: 1487035

Ion Ratio Lower Upper

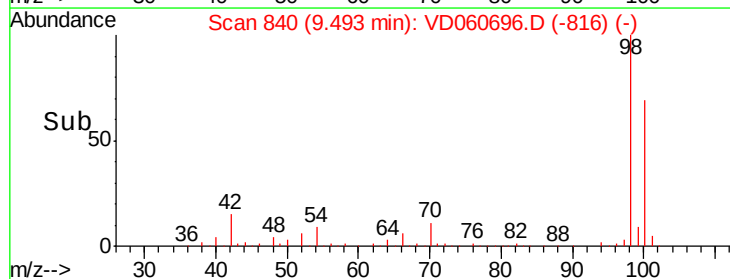
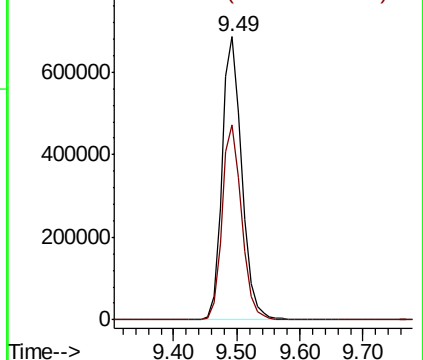
98 100

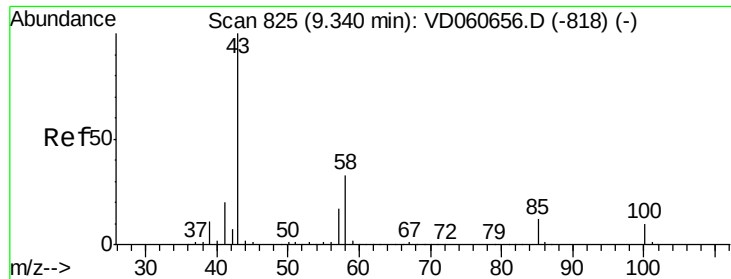
100 68.9 55.8 83.8



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: 1.500 ug/l

RT: 9.48 min Scan# 839

Delta R.T. 0.14 min

Lab File: VD060696.D

Acq: 21 Dec 2018 20:59

Instrument :

MSVOA_D

ClientSampleId :

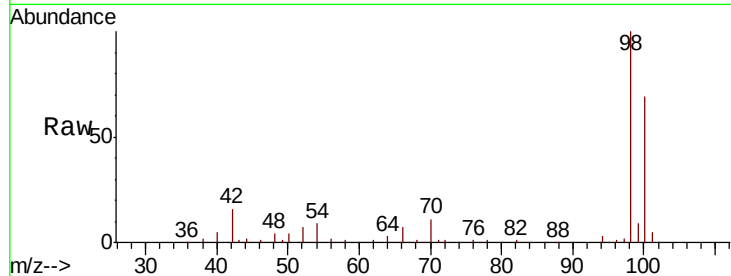
S-2(5)

Tot Ion: 43 Resp: 8297

Ion Ratio Lower Upper

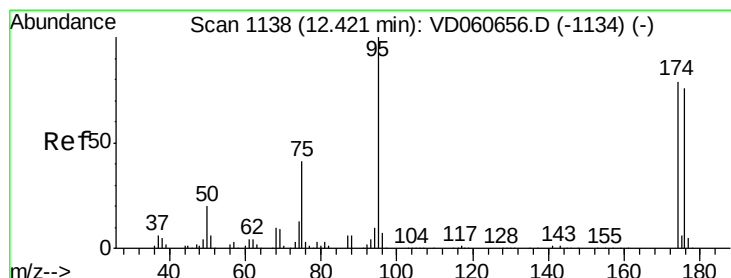
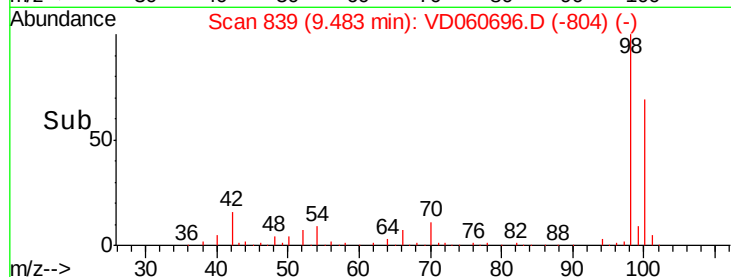
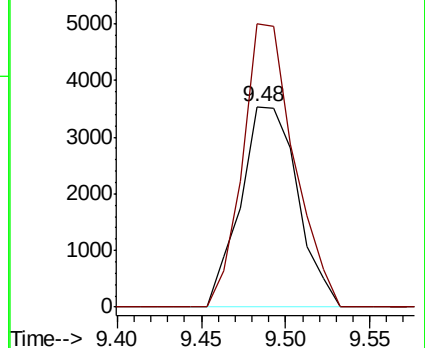
43 100

58 141.2 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.45 min Scan# 1140

Delta R.T. 0.02 min

Lab File: VD060696.D

Acq: 21 Dec 2018 20:59

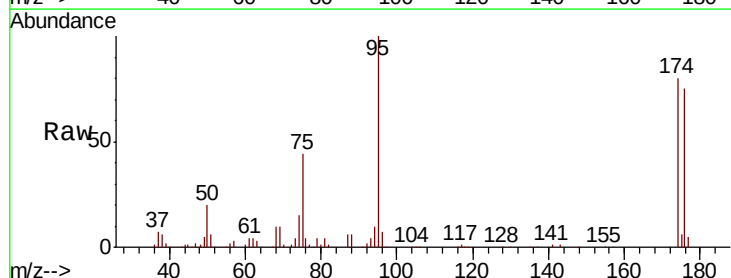
Tgt Ion: 95 Resp: 372116

Ion Ratio Lower Upper

95 100

174 80.1 0.0 158.2

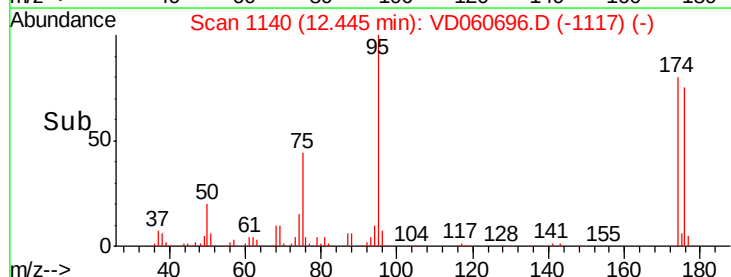
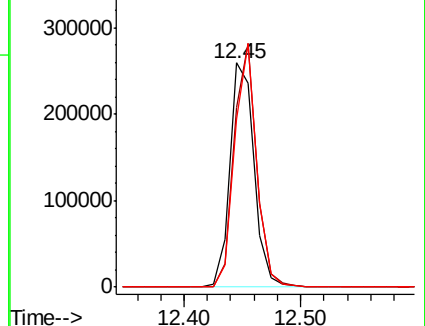
176 75.0 0.0 152.4

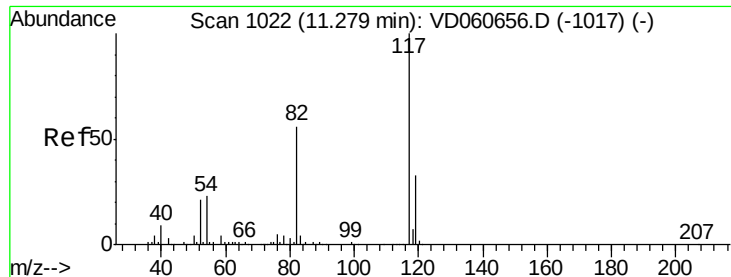


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

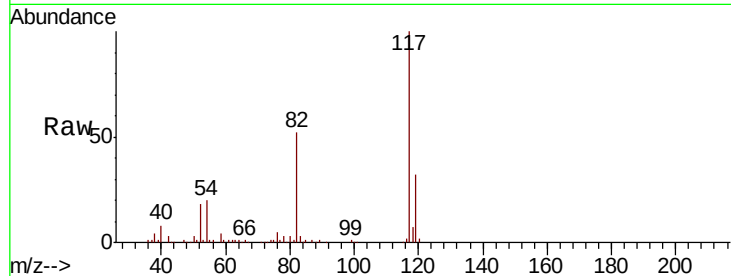




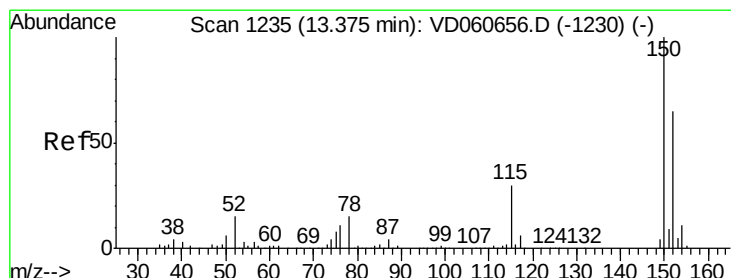
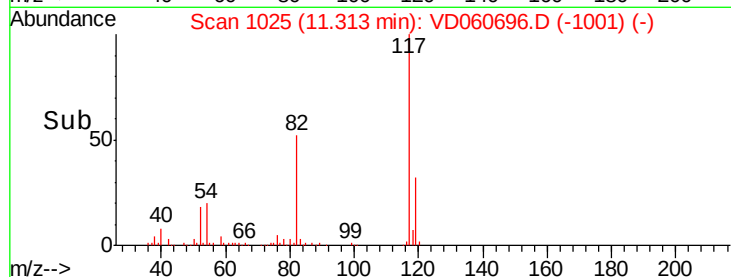
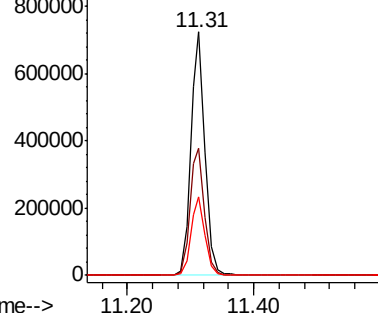
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.31 min Scan# 1025
Delta R.T. 0.03 min
Lab File: VD060696.D
Acq: 21 Dec 2018 20:59

Instrument :
MSVOA_D
ClientSampleID :
S-2(5)

Tot Ion:117 Resp: 1141215
Ion Ratio Lower Upper
117 100
82 52.3 44.5 66.7
119 32.2 26.3 39.5

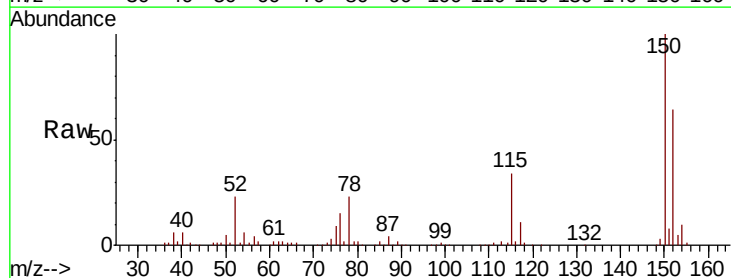


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

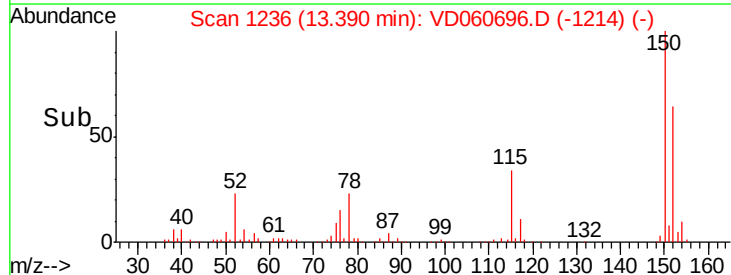
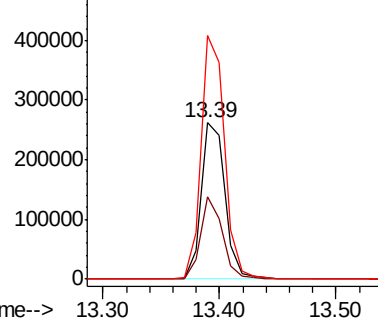


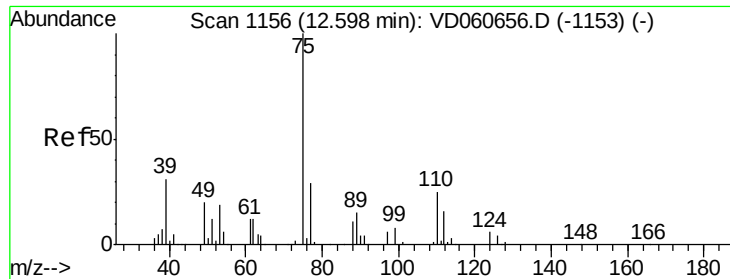
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.39 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VD060696.D
Acq: 21 Dec 2018 20:59

Tgt Ion:152 Resp: 370083
Ion Ratio Lower Upper
152 100
115 52.5 24.1 72.3
150 155.9 0.0 315.0



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: 38.024 ug/l

RT: 12.45 min Scan# 1140

Delta R.T. -0.15 min

Lab File: VD060696.D

Acq: 21 Dec 2018 20:59

Instrument :

MSVOA_D

ClientSampled :

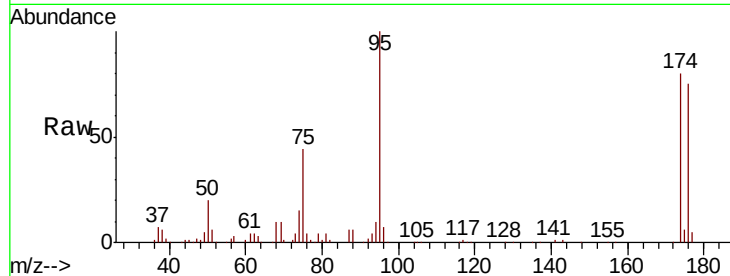
S-2(5)

Tot Ion: 75 Resp: 160207

Ion Ratio Lower Upper

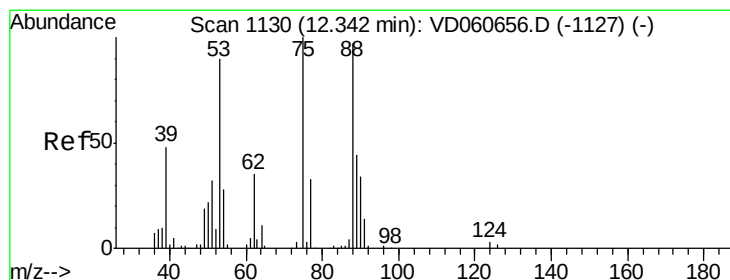
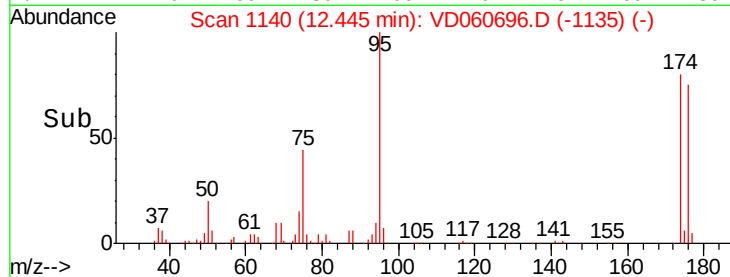
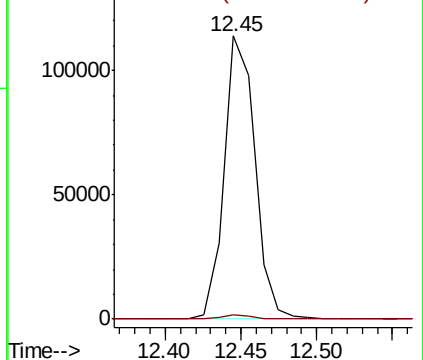
75 100

77 1.5 16.7 50.0#



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: 137.583 ug/l

RT: 12.45 min Scan# 1140

Delta R.T. 0.10 min

Lab File: VD060696.D

Acq: 21 Dec 2018 20:59

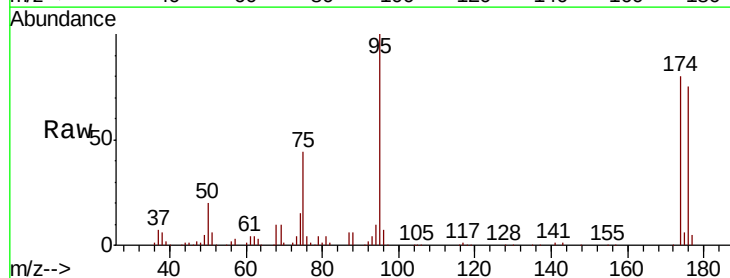
Tgt Ion: 75 Resp: 160180

Ion Ratio Lower Upper

75 100

53 0.0 72.1 108.1#

89 0.0 35.1 52.7#



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

