

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX103018\
 Data File : VX005689.D
 Acq On : 30 Oct 2018 14:07
 Operator : JC/MD
 Sample : J5691-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-9-WS

Quant Time: Oct 30 15:56:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	239231	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	343244	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	300389	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	143440	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	146814	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
35) Dibromofluoromethane	5.50	113	113511	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
50) Toluene-d8	8.71	98	399947	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
62) 4-Bromofluorobenzene	11.14	95	132344	41.96	ug/l	0.00
Spiked Amount			Recovery	=	83.92%	

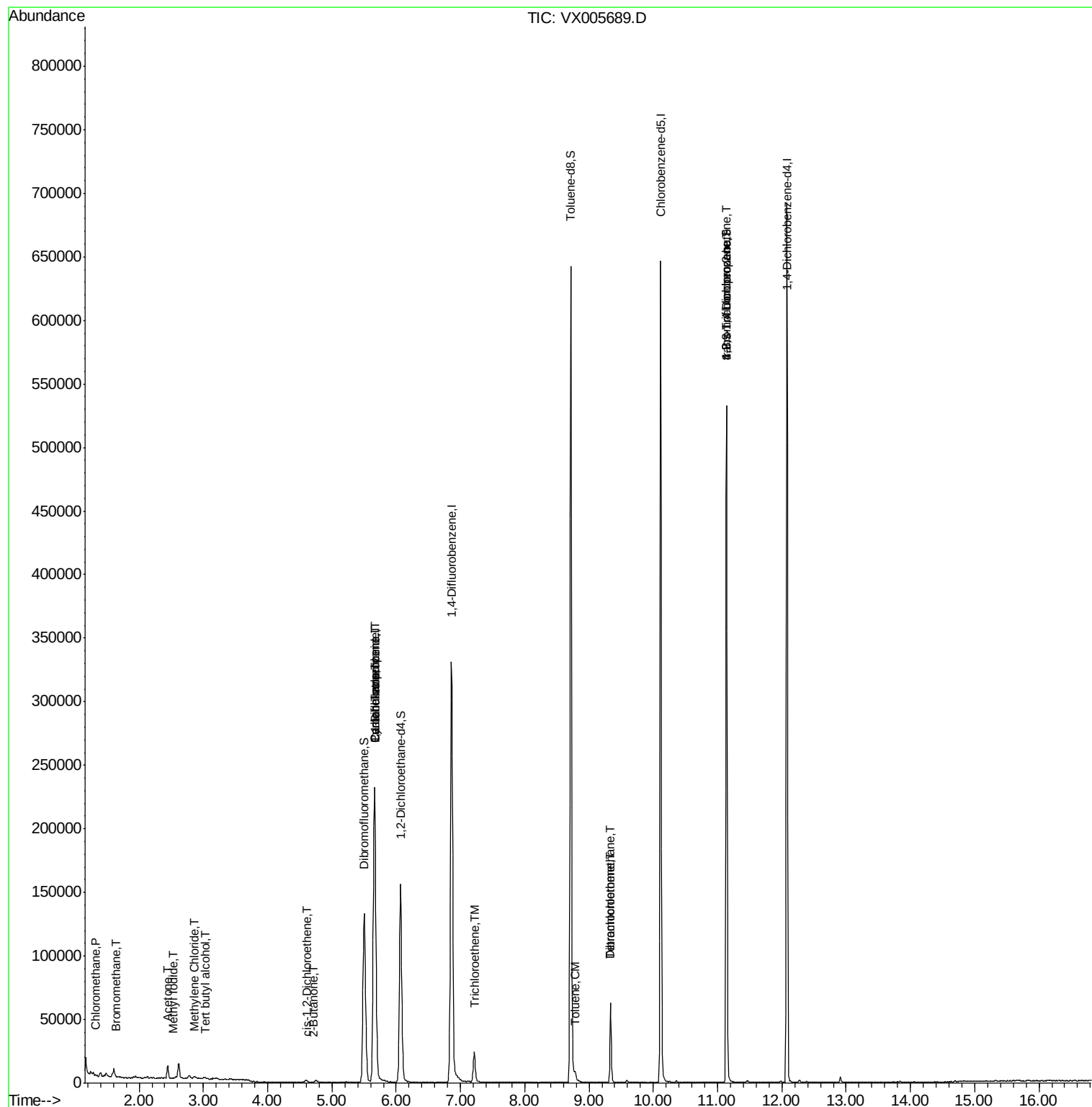
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	614	0.20	ug/l	100
5) Bromomethane	1.65	94	422	0.23	ug/l #	47
10) Methyl Iodide	2.52	142	206	2.80	ug/l #	71
11) Tert butyl alcohol	3.02	59	904	1.15	ug/l #	78
16) Acetone	2.45	43	9960	6.45	ug/l	98
18) Methyl Acetate	2.78	43	2579	Below Cal		99
20) Methylene Chloride	2.86	84	775	0.30	ug/l #	75
25) 2-Butanone	4.71	43	763	0.32	ug/l #	65
27) cis-1,2-Dichloroethene	4.60	96	649	0.25	ug/l	25
31) Cyclohexane	5.66	56	4401	1.12	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16304	4.89	ug/l #	49
38) Carbon Tetrachloride	5.66	117	21157	6.03	ug/l #	15
44) Trichloroethene	7.21	130	9435	3.63	ug/l	87
52) Toluene	8.78	92	1538	0.27	ug/l	97
60) Dibromochloromethane	9.33	129	11518	4.51	ug/l #	10
64) Tetrachloroethene	9.33	164	13057	5.24	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	66304	21.82	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	66304	71.29	ug/l #	9

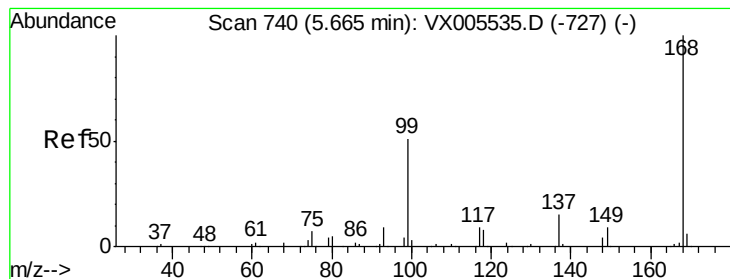
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

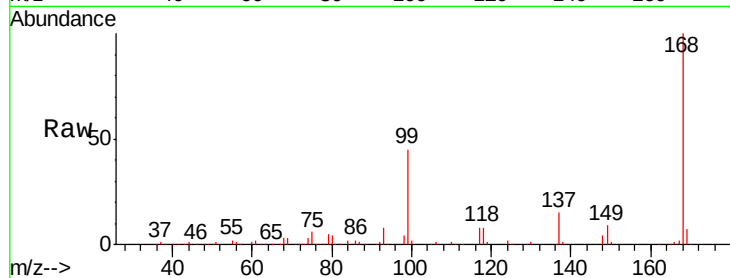
SB-9-WS

Tgt Ion:168 Resp: 239231

Ion Ratio Lower Upper

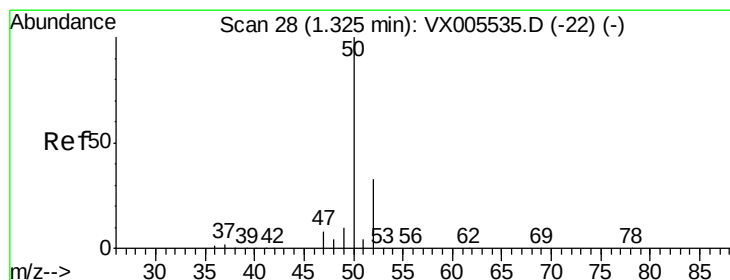
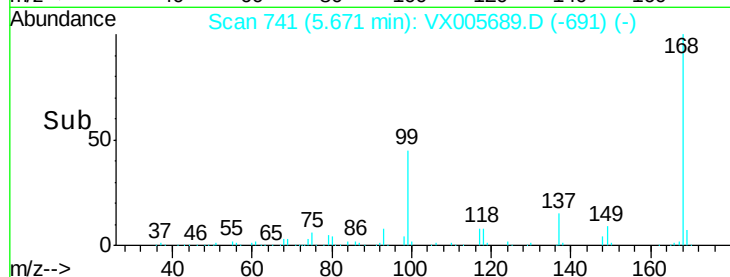
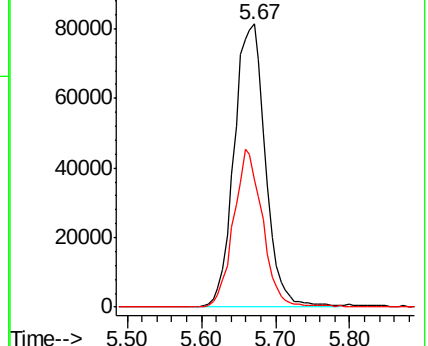
168 100

99 45.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.20 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX005689.D

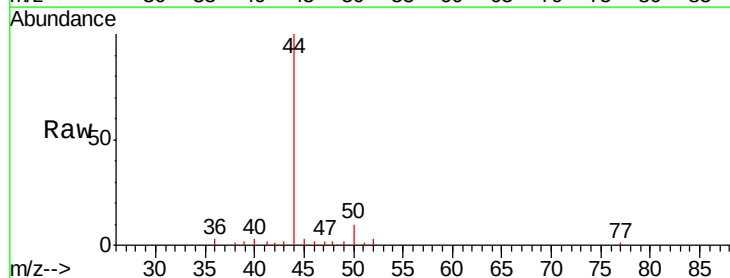
Acq: 30 Oct 2018 14:07

Tgt Ion: 50 Resp: 614

Ion Ratio Lower Upper

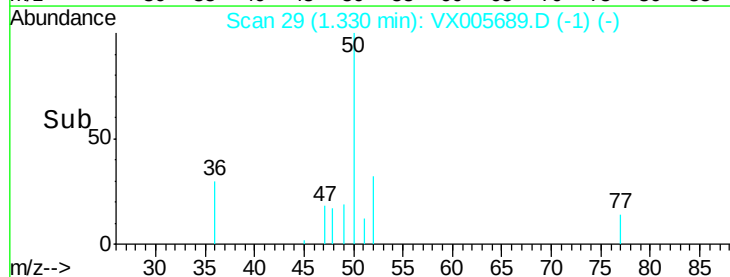
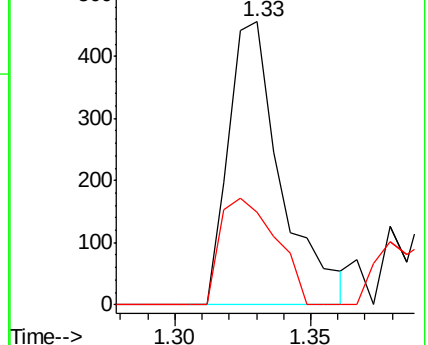
50 100

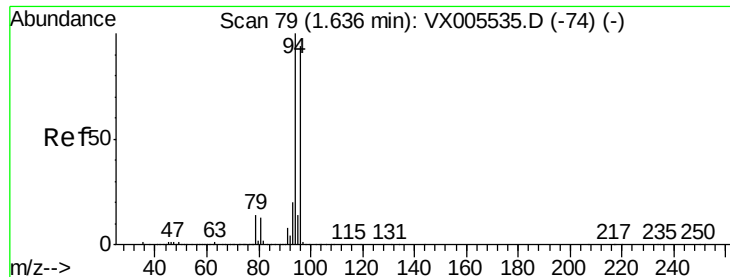
52 32.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.23 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

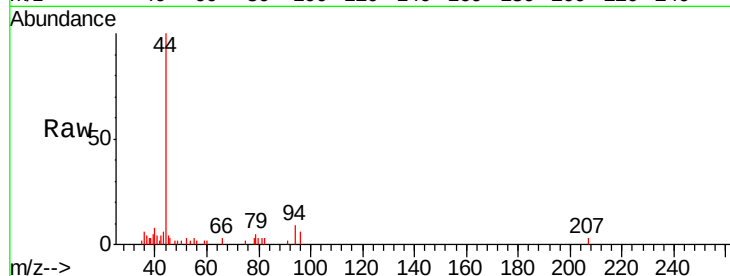
SB-9-WS

Tgt Ion: 94 Resp: 422

Ion Ratio Lower Upper

94 100

96 42.7 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

250

200

150

100

50

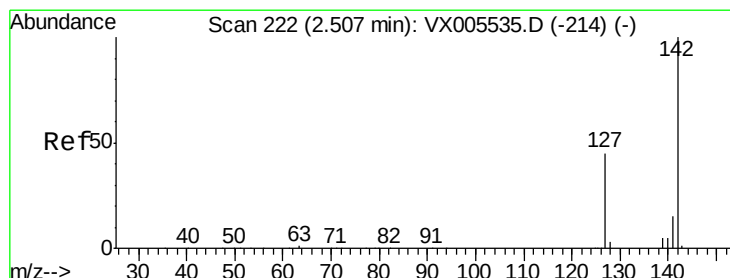
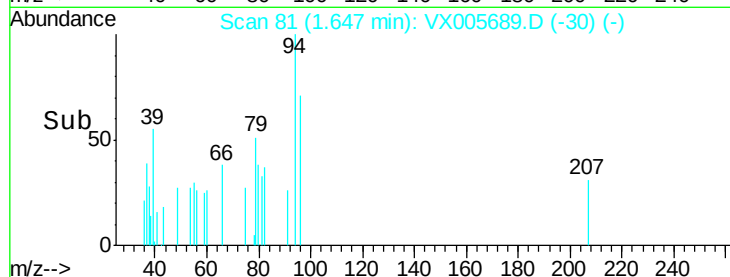
0

1.60

1.65

1.70

Time-->



#10

Methyl Iodide

Concen: 2.80 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

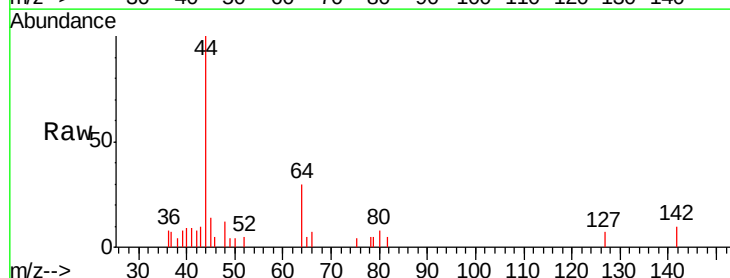
Tgt Ion: 142 Resp: 206

Ion Ratio Lower Upper

142 100

127 27.2 36.0 54.0#

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

150

100

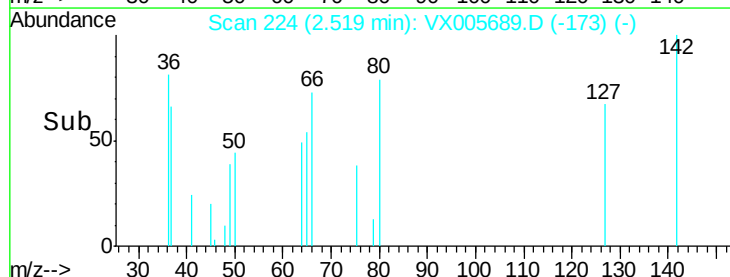
50

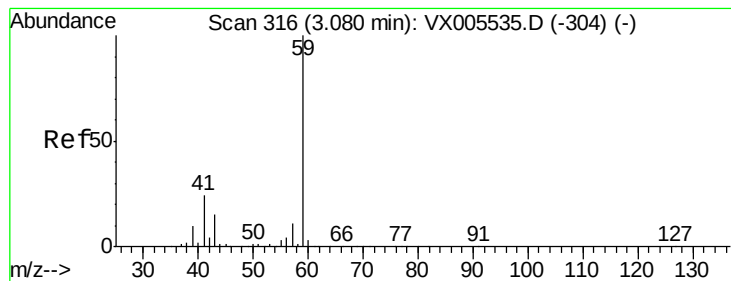
0

2.50

2.55

Time-->





#11

Tert butyl alcohol

Concen: 1.15 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampled :

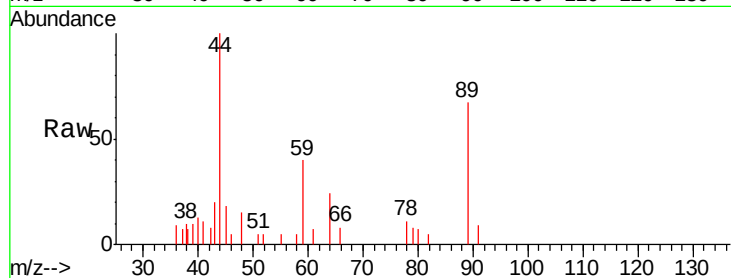
SB-9-WS

Tgt Ion: 59 Resp: 904

Ion Ratio Lower Upper

59 100

57 2.4 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.02

400

300

200

100

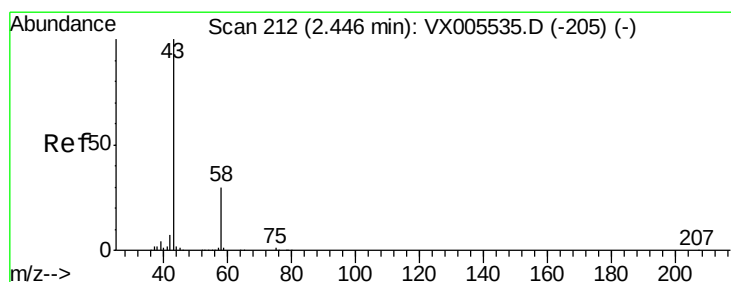
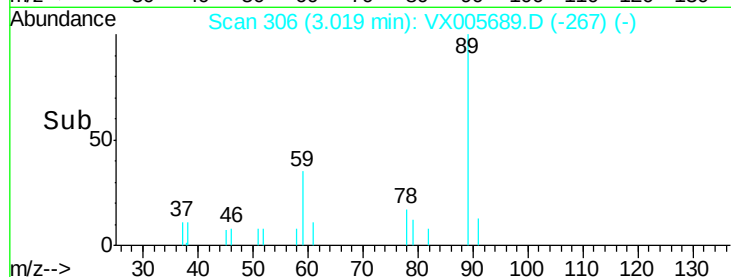
0

2.95

3.00

3.05

Time-->



#16

Acetone

Concen: 6.45 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005689.D

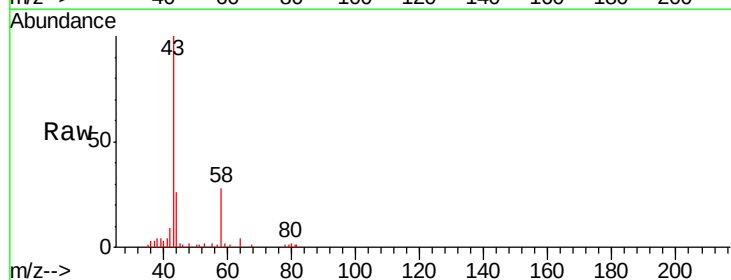
Acq: 30 Oct 2018 14:07

Tgt Ion: 43 Resp: 9960

Ion Ratio Lower Upper

43 100

58 28.6 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

6000

4000

2000

0

2.35

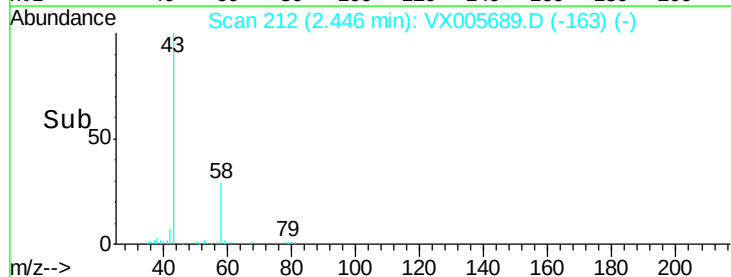
2.40

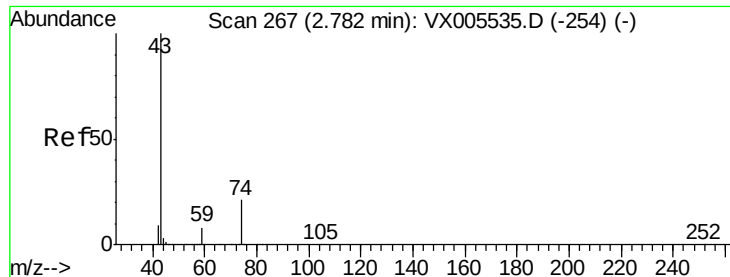
2.45

2.50

2.55

Time-->

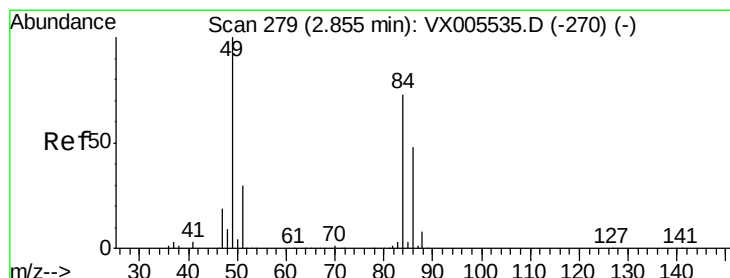
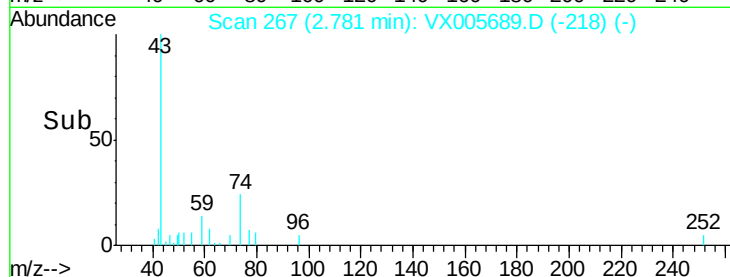
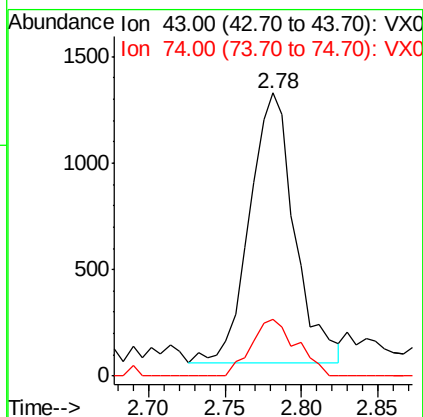
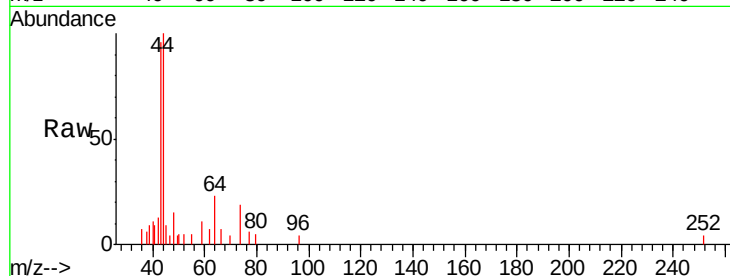




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005689.D
Acq: 30 Oct 2018 14:07

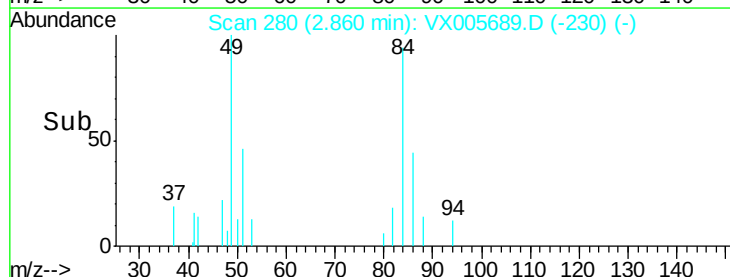
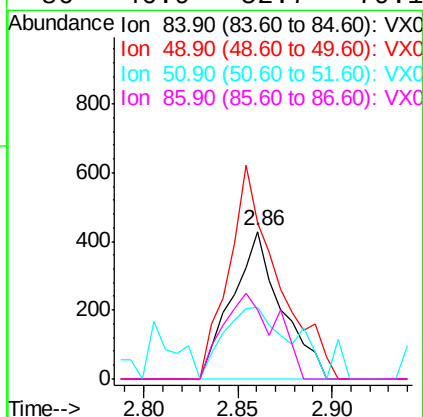
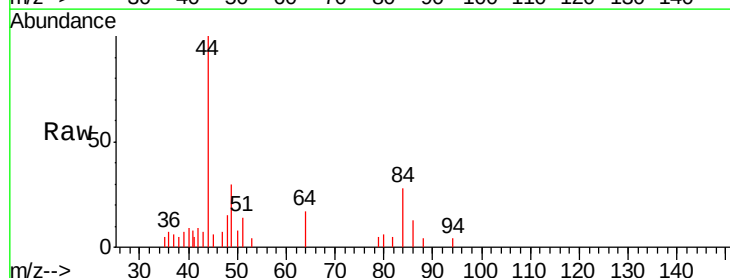
Instrument :
MSVOA_X
ClientSampled :
SB-9-WS

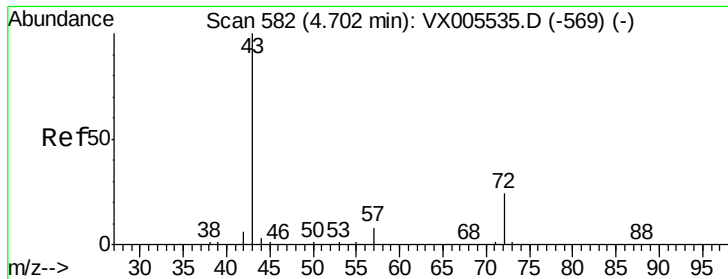
Tgt Ion: 43 Resp: 2579
Ion Ratio Lower Upper
43 100
74 21.4 16.8 25.2



#20
Methylene Chloride
Concen: 0.30 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005689.D
Acq: 30 Oct 2018 14:07

Tgt Ion: 84 Resp: 775
Ion Ratio Lower Upper
84 100
49 105.8 109.5 164.3#
51 25.9 33.3 49.9#
86 46.9 52.7 79.1#





#25

2-Butanone

Concen: 0.32 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampled :

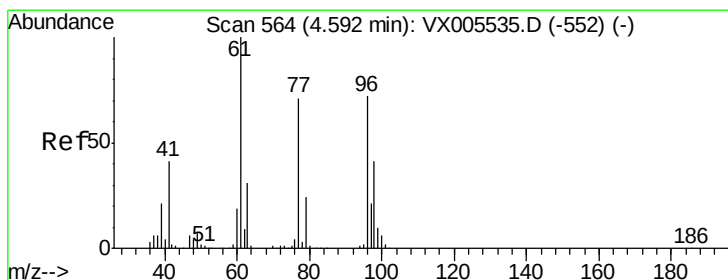
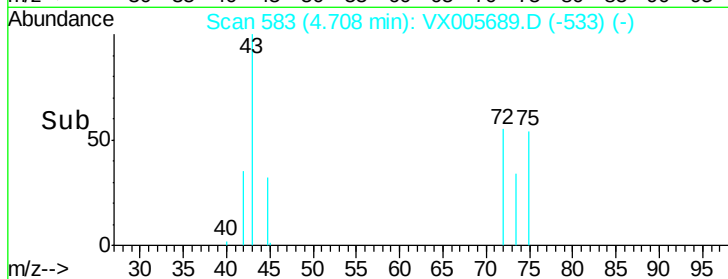
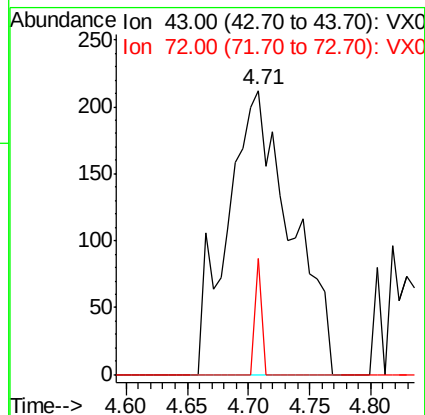
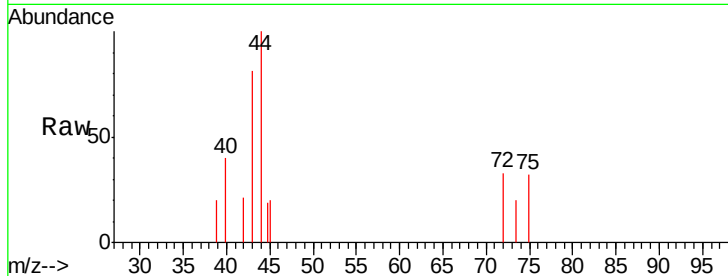
SB-9-WS

Tgt Ion: 43 Resp: 763

Ion Ratio Lower Upper

43 100

72 41.0 19.2 28.8#



#27

cis-1,2-Dichloroethene

Concen: 0.25 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

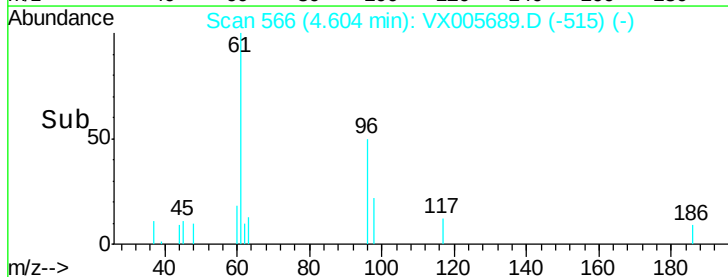
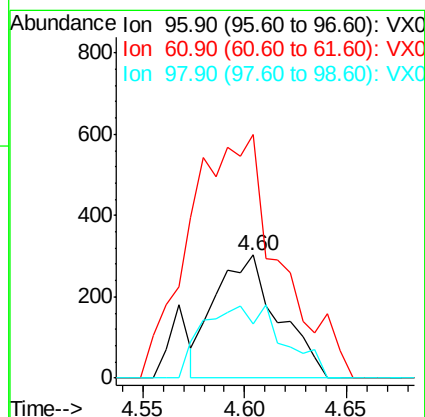
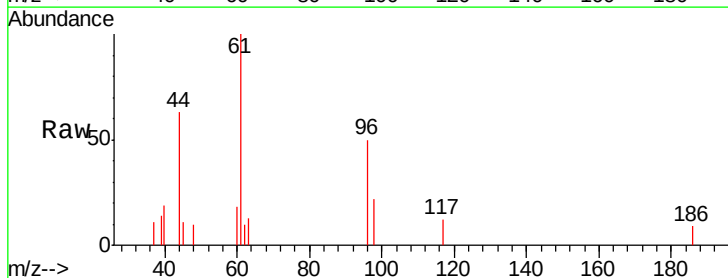
Tgt Ion: 96 Resp: 649

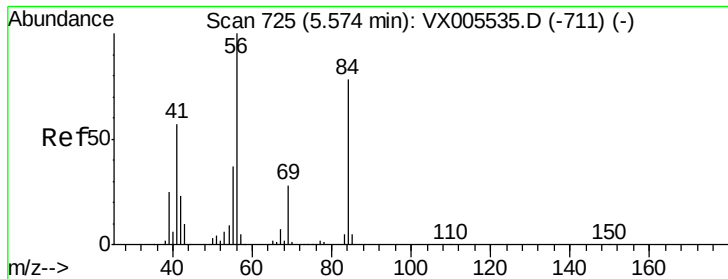
Ion Ratio Lower Upper

96 100

61 280.3 0.0 304.6

98 74.6 0.0 127.4

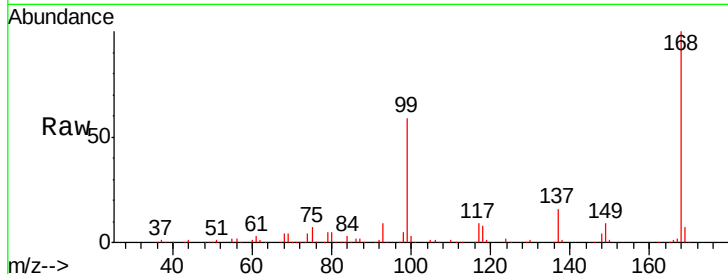




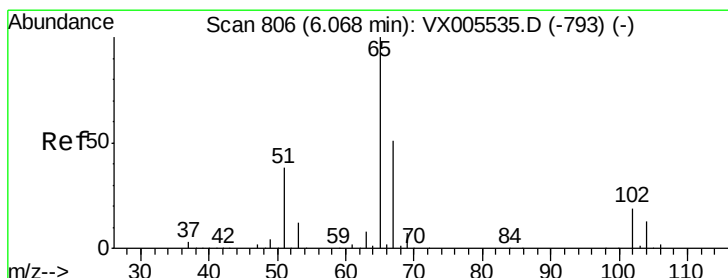
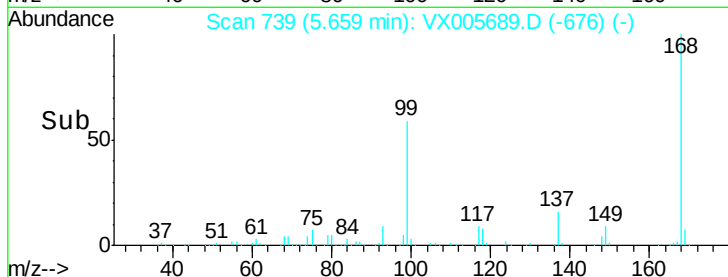
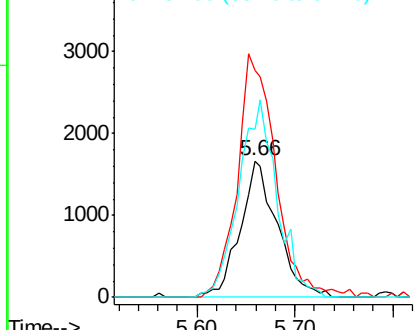
#31
Cyclohexane
Concen: 1.12 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX005689.D
Acq: 30 Oct 2018 14:07

Instrument :
MSVOA_X
ClientSampleId :
SB-9-WS

Tgt Ion: 56 Resp: 4401
Ion Ratio Lower Upper
56 100
69 167.0 22.6 34.0#
84 123.1 62.7 94.1#

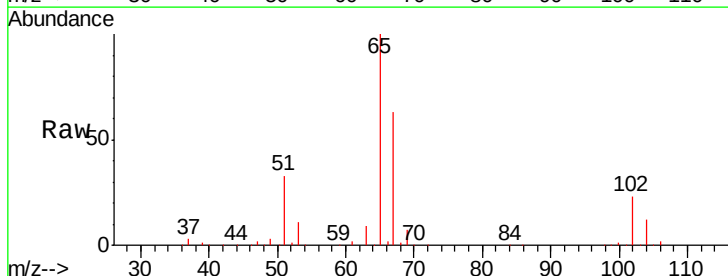


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

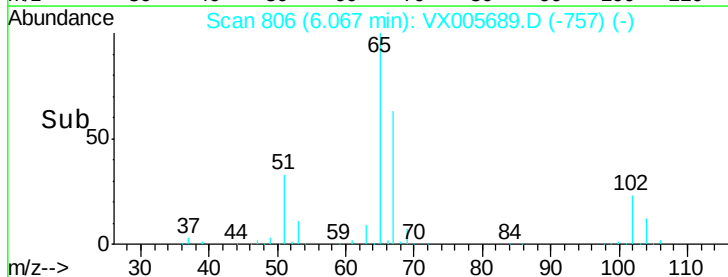
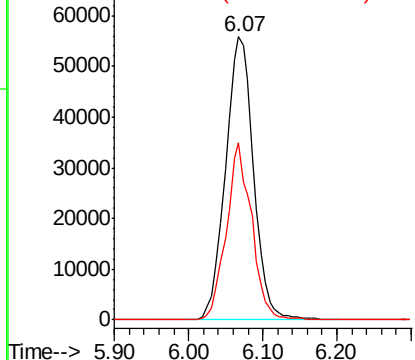


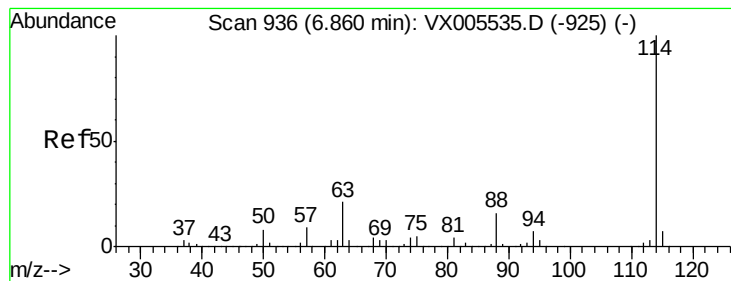
#33
1,2-Dichloroethane-d4
Concen: 50.27 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX005689.D
Acq: 30 Oct 2018 14:07

Tgt Ion: 65 Resp: 146814
Ion Ratio Lower Upper
65 100
67 56.3 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

SB-9-WS

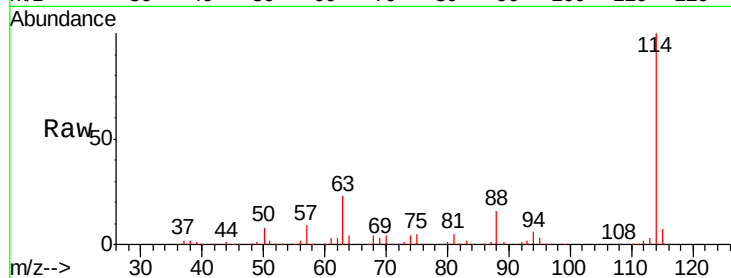
Tgt Ion:114 Resp: 343244

Ion Ratio Lower Upper

114 100

63 22.8 0.0 42.8

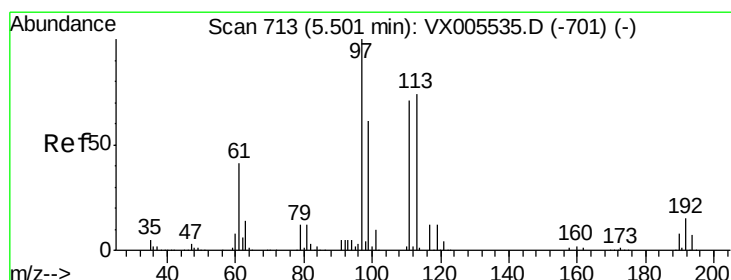
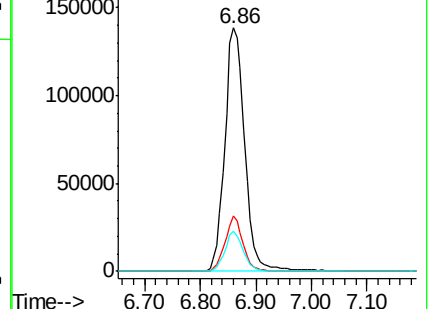
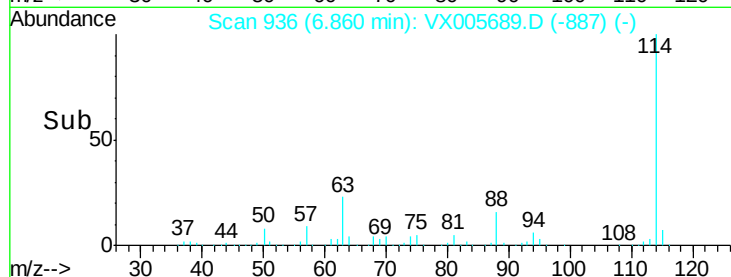
88 16.2 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.84 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

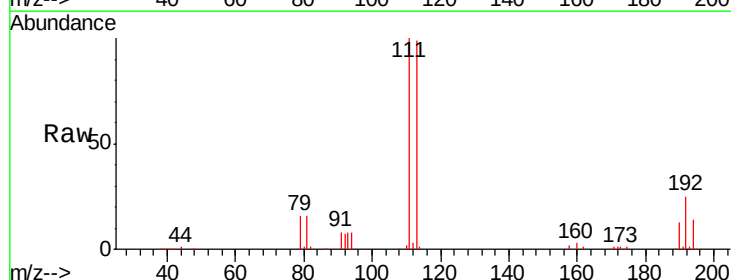
Tgt Ion:113 Resp: 113511

Ion Ratio Lower Upper

113 100

111 104.2 82.3 123.5

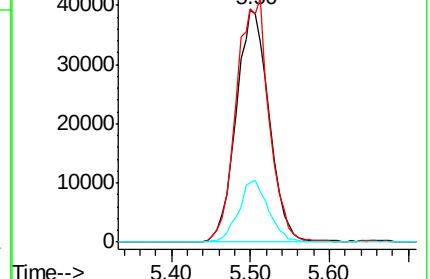
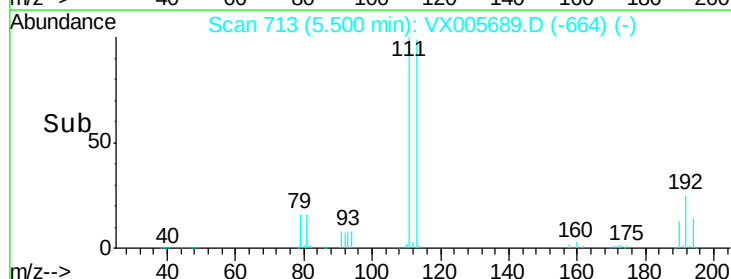
192 24.2 17.9 26.9

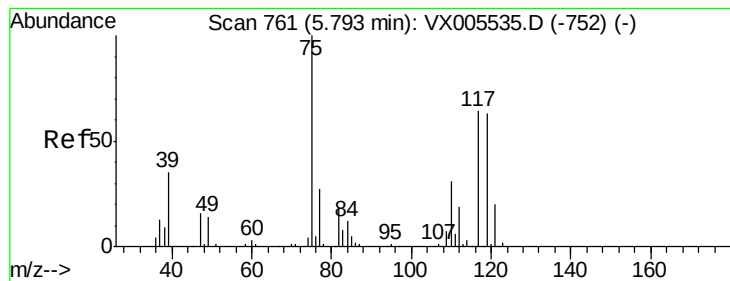


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.89 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

SB-9-WS

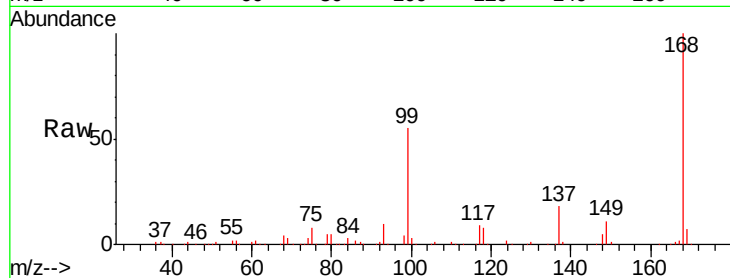
Tgt Ion: 75 Resp: 16304

Ion Ratio Lower Upper

75 100

110 8.8 17.4 52.2#

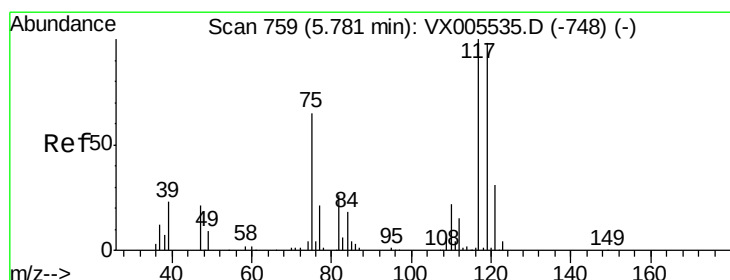
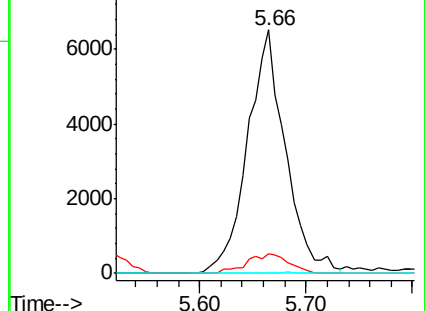
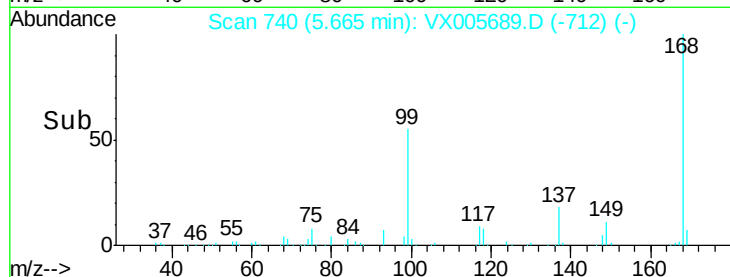
77 0.1 25.8 38.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.03 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

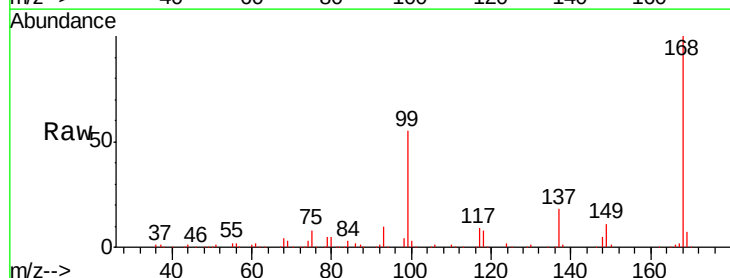
Tgt Ion: 117 Resp: 21157

Ion Ratio Lower Upper

117 100

119 4.4 78.1 117.1#

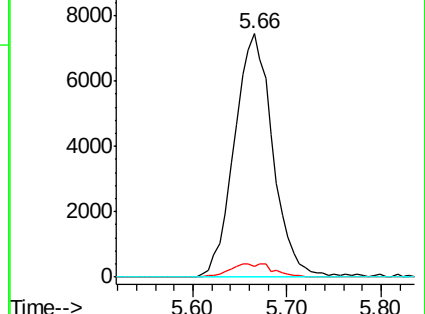
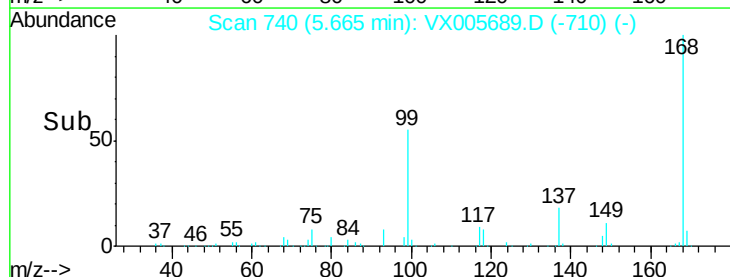
121 0.0 24.6 36.8#

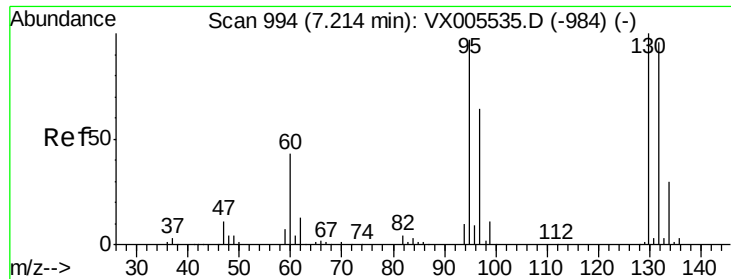


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 3.63 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

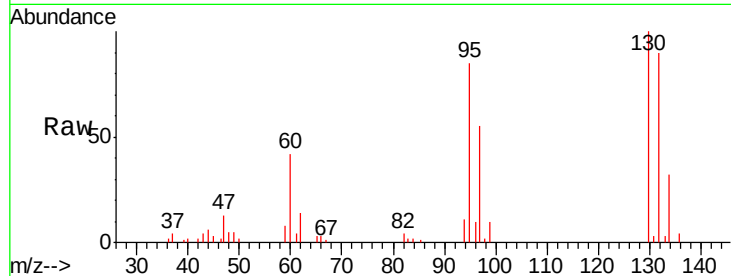
SB-9-WS

Tgt Ion:130 Resp: 9435

Ion Ratio Lower Upper

130 100

95 84.6 0.0 194.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

4000

3000

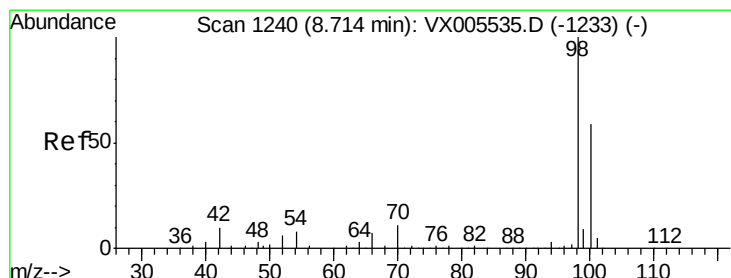
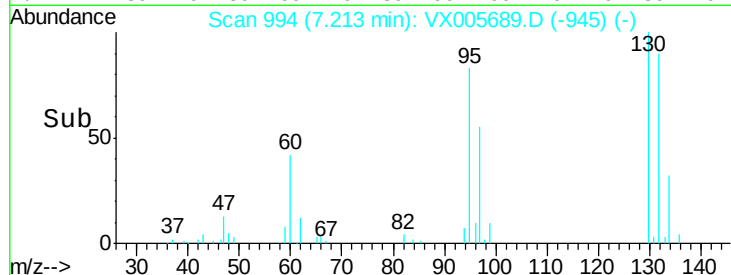
2000

1000

0

7.15 7.20 7.25 7.30

Time-->



#50

Toluene-d8

Concen: 47.89 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005689.D

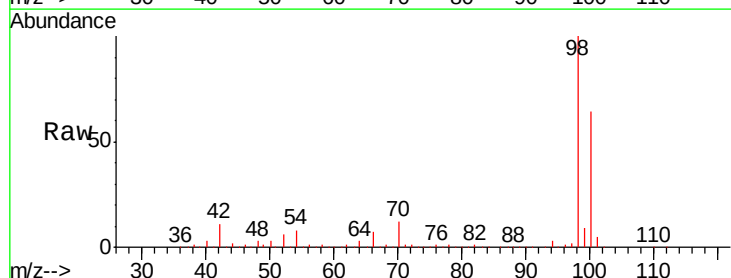
Acq: 30 Oct 2018 14:07

Tgt Ion: 98 Resp: 399947

Ion Ratio Lower Upper

98 100

100 63.5 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

150000

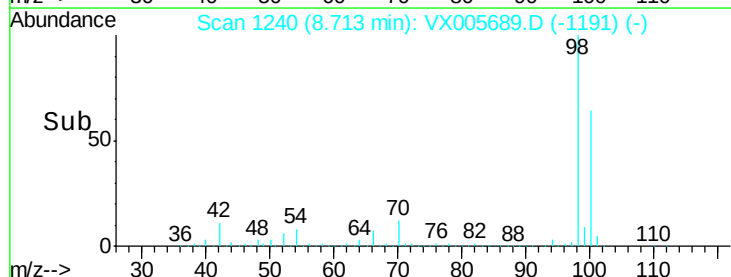
100000

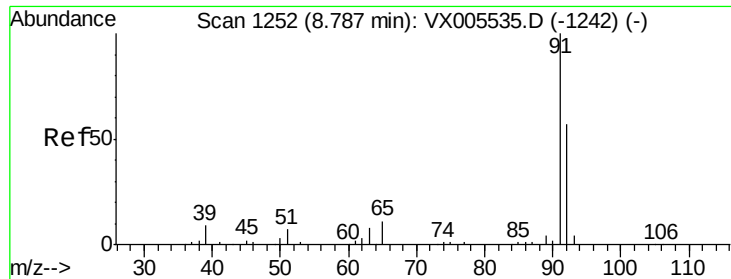
50000

0

8.60 8.70 8.80 8.90

Time-->





#52

Toluene

Concen: 0.27 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

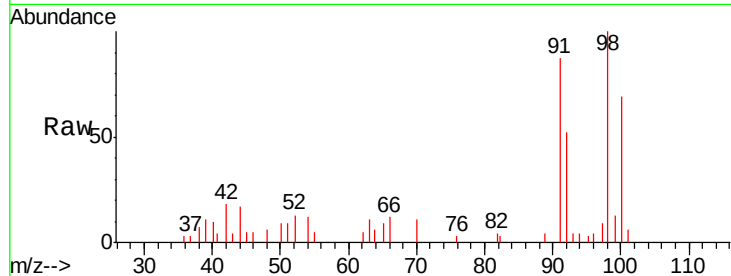
SB-9-WS

Tgt Ion: 92 Resp: 1538

Ion Ratio Lower Upper

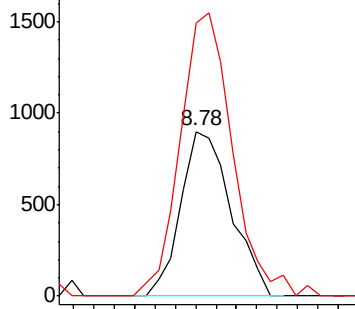
92 100

91 179.8 140.4 210.6

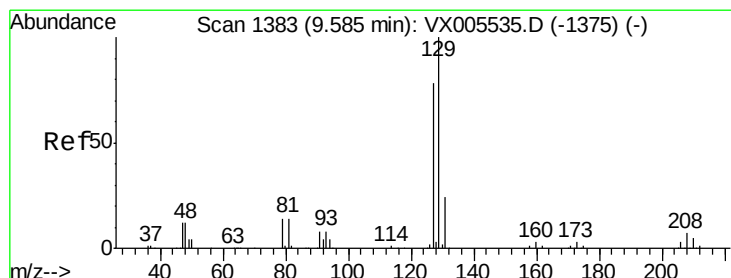
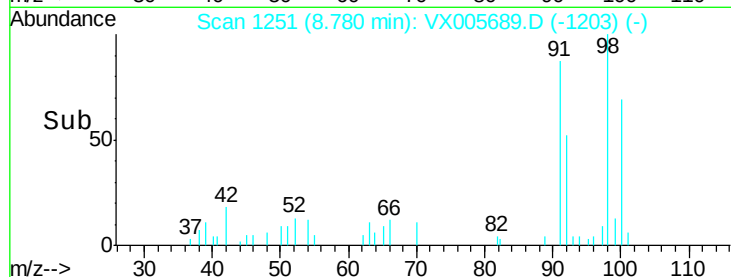


Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



Time-->



#60

Dibromochloromethane

Concen: 4.51 ug/l

RT: 9.33 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX005689.D

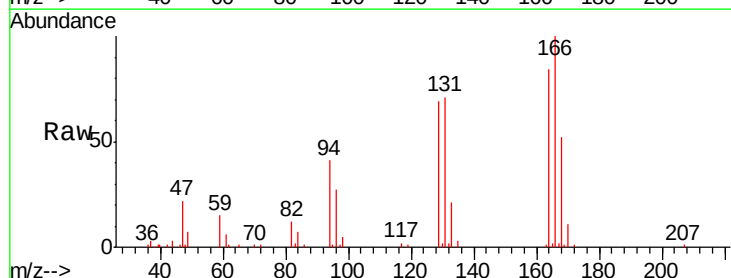
Acq: 30 Oct 2018 14:07

Tgt Ion: 129 Resp: 11518

Ion Ratio Lower Upper

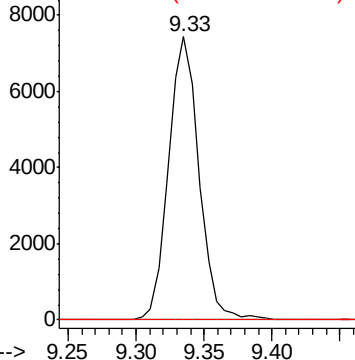
129 100

127 0.0 38.9 116.7#

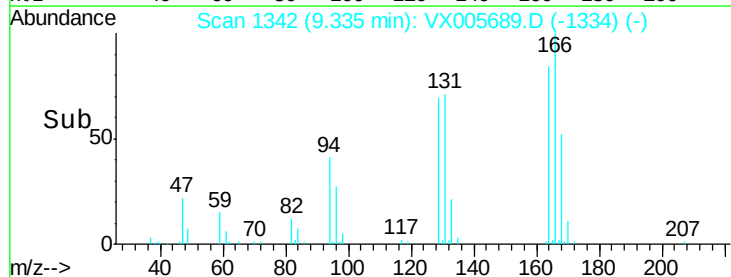


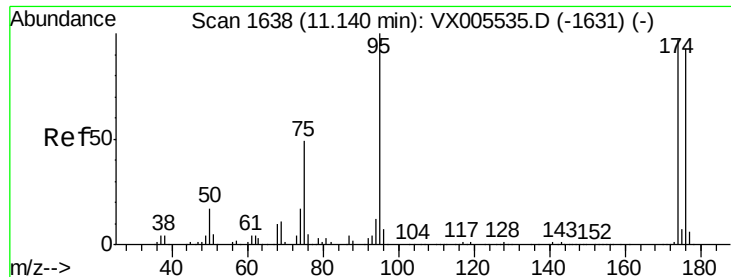
Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->





#62

4-Bromofluorobenzene

Concen: 41.96 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampled :

SB-9-WS

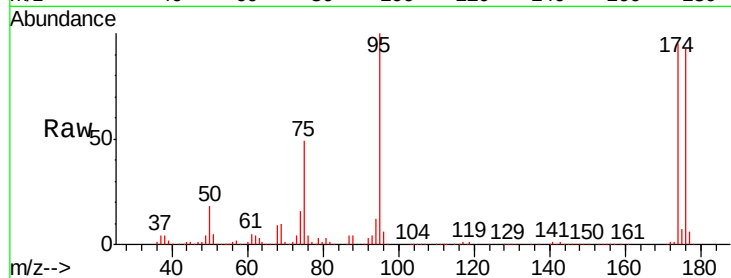
Tgt Ion: 95 Resp: 132344

Ion Ratio Lower Upper

95 100

174 93.7 0.0 184.4

176 92.3 0.0 177.4

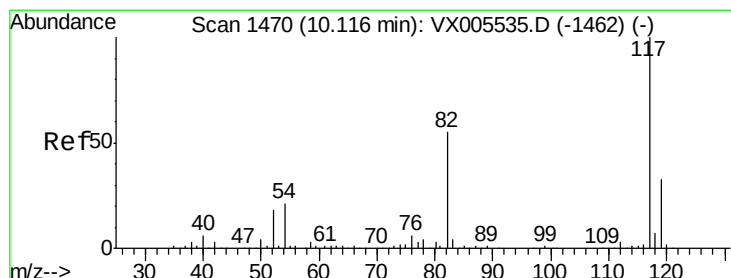
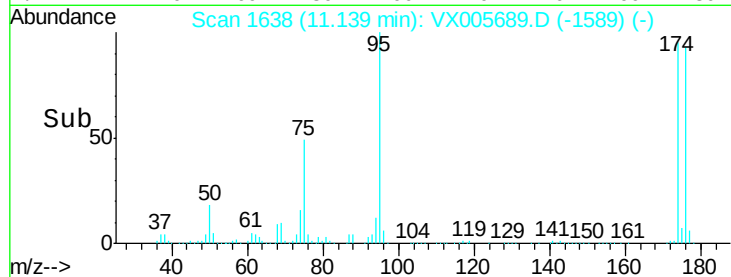


Abundance Ion 94.90 (94.60 to 95.60): VX005535.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005535.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005535.D (-1631) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

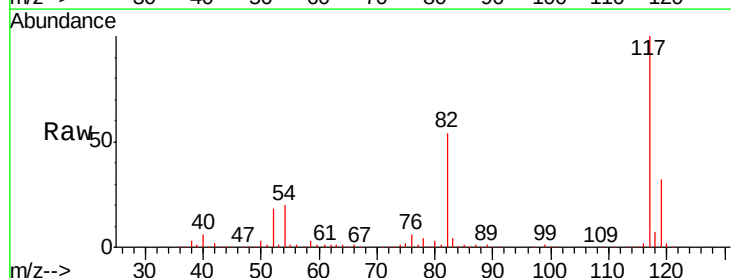
Tgt Ion: 117 Resp: 300389

Ion Ratio Lower Upper

117 100

82 54.4 44.1 66.1

119 32.2 26.2 39.2

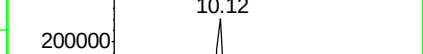
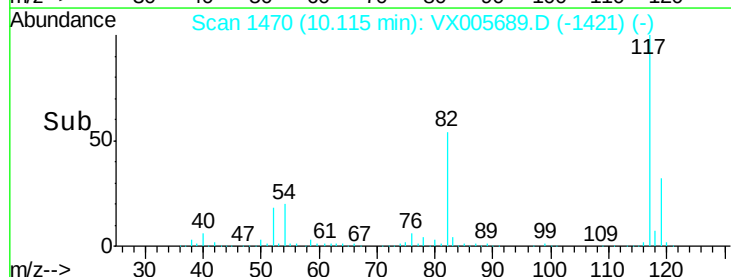


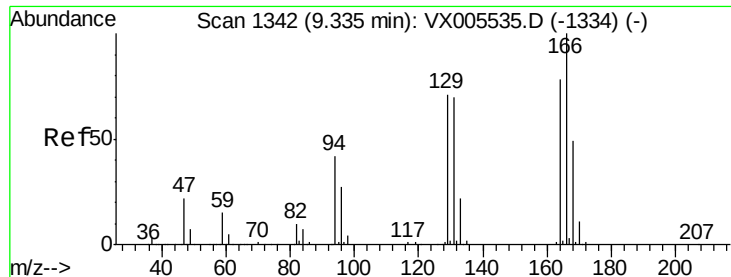
Abundance Ion 116.90 (116.60 to 117.60): VX005535.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005535.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005535.D (-1462) (-)

Time-->





#64

Tetrachloroethene

Concen: 5.24 ug/l

RT: 9.33 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

SB-9-WS

Tgt Ion:164 Resp: 13057

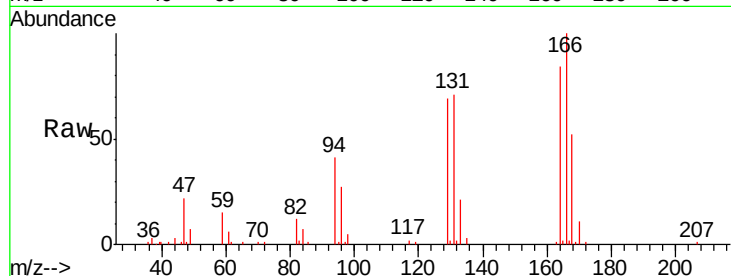
Ion Ratio Lower Upper

164 100

166 119.3 101.9 152.9

129 82.3 72.6 109.0

131 84.8 71.1 106.7

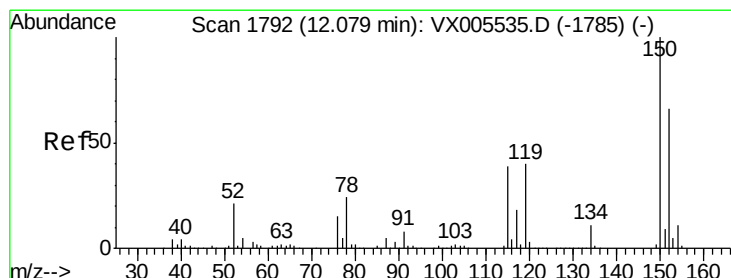
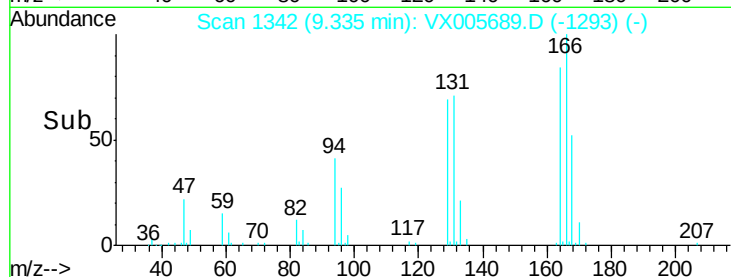
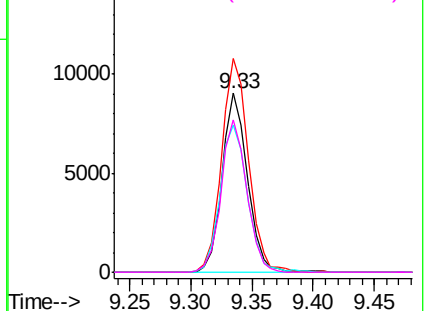


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

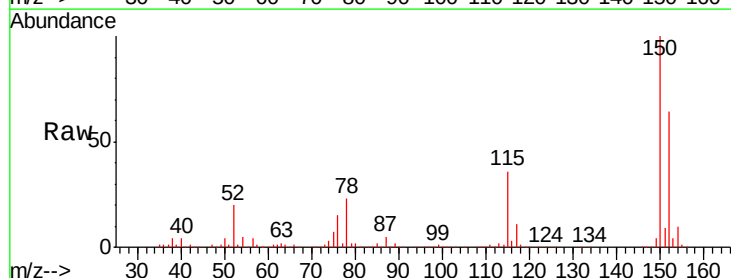
Tgt Ion:152 Resp: 143440

Ion Ratio Lower Upper

152 100

115 55.6 39.4 118.1

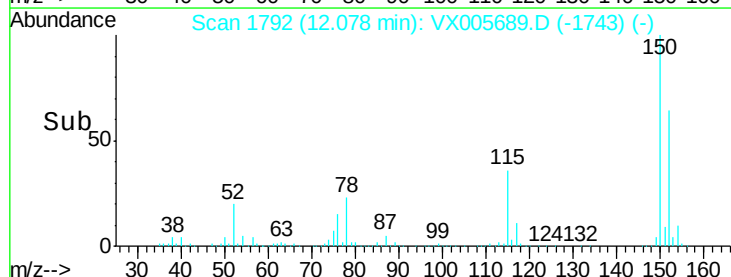
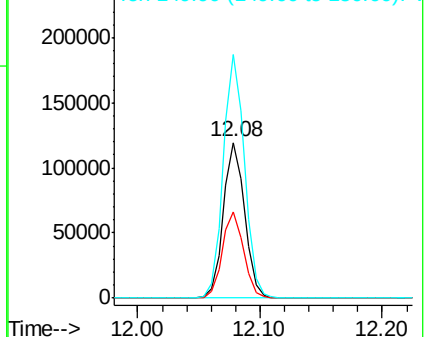
150 156.6 0.0 346.4

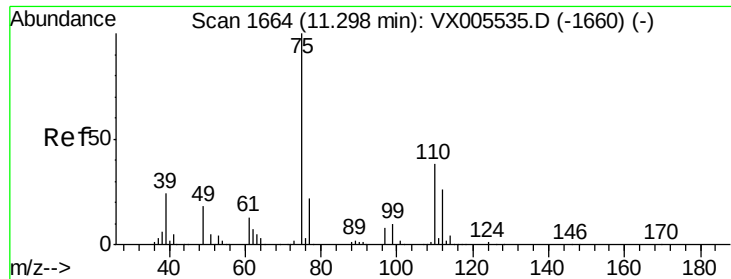


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.82 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

Instrument :

MSVOA_X

ClientSampleId :

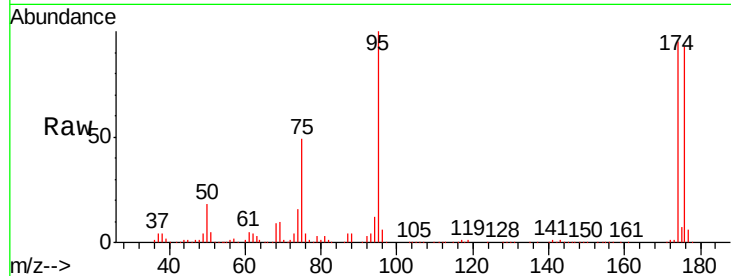
SB-9-WS

Tgt Ion: 75 Resp: 66304

Ion Ratio Lower Upper

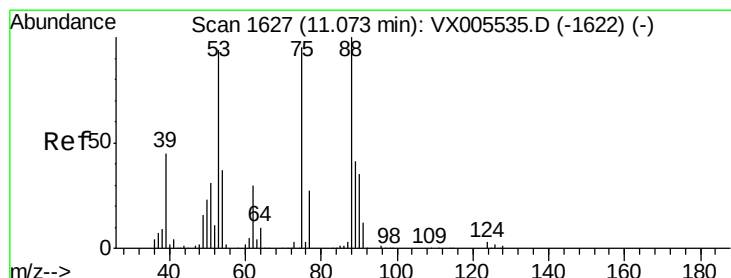
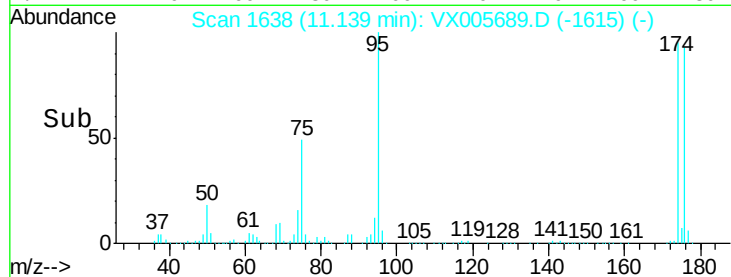
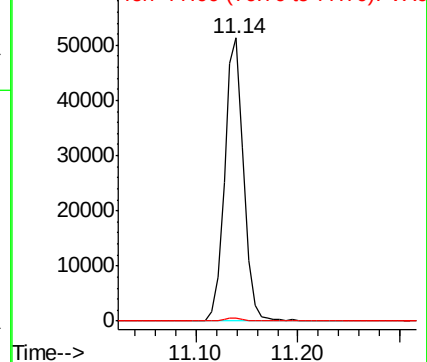
75 100

77 1.4 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 71.29 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005689.D

Acq: 30 Oct 2018 14:07

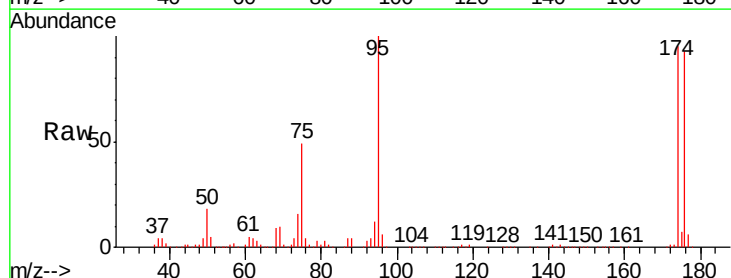
Tgt Ion: 75 Resp: 66304

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

89 0.0 39.8 59.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

