

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110118\
 Data File : VX005731.D
 Acq On : 01 Nov 2018 16:04
 Operator : JC/MD
 Sample : J5769-21
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 01 16:54:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 18:23:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	120108	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	202634	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	174242	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	76873	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	89891	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
35) Dibromofluoromethane	5.51	113	67867	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
50) Toluene-d8	8.71	98	244842	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
62) 4-Bromofluorobenzene	11.14	95	78604	43.28	ug/l	0.00
Spiked Amount			Recovery	=	86.56%	

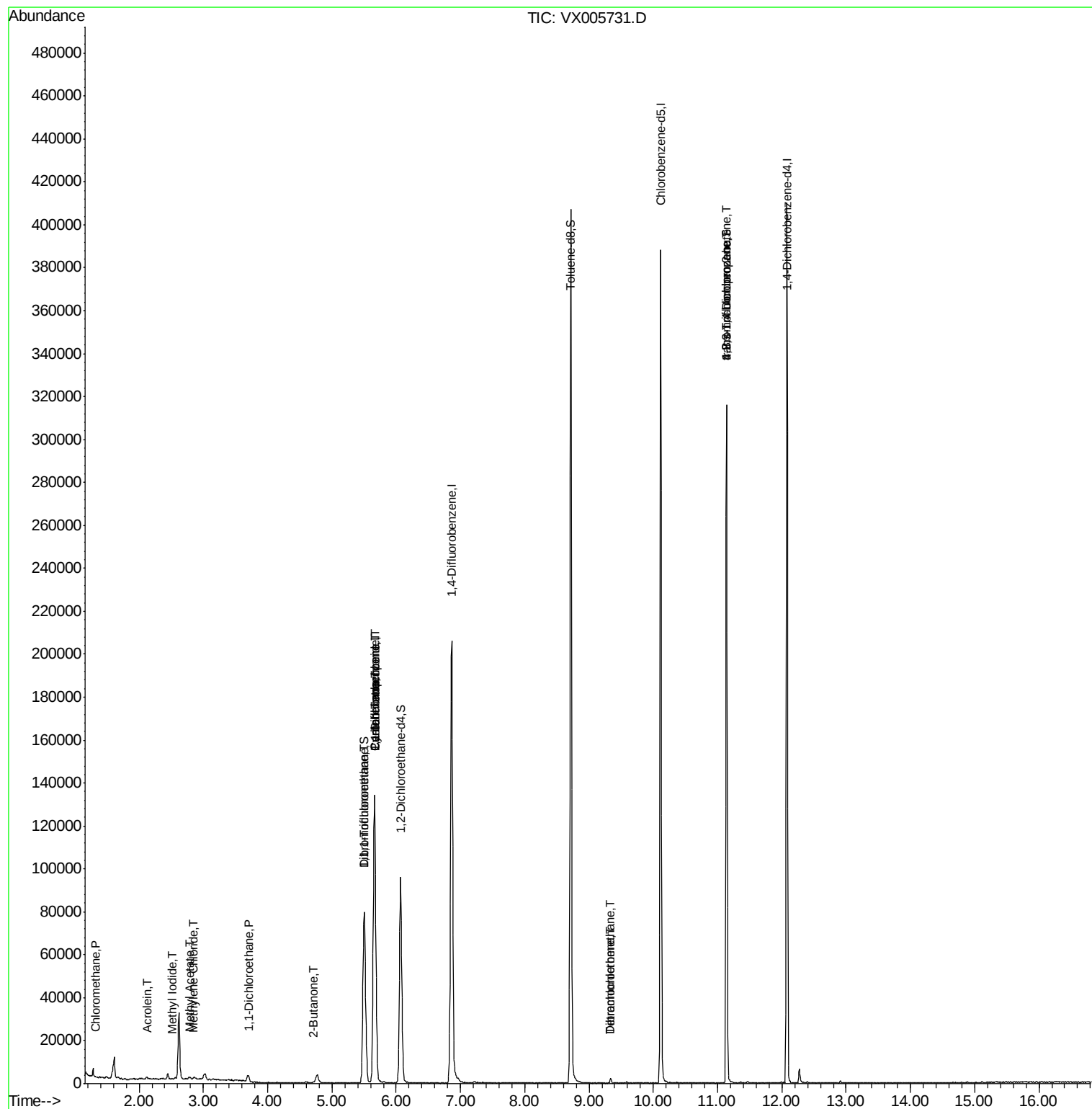
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	348	0.213	ug/l	90
6) Chloroethane	1.76	64	78	Below Cal	#	42
10) Methyl Iodide	2.51	142	84	2.003	ug/l #	39
13) Acrolein	2.13	56	19	12.236	ug/l #	14
16) Acetone	2.45	43	2723	Below Cal		99
18) Methyl Acetate	2.79	43	1312	0.521	ug/l	94
20) Methylene Chloride	2.85	84	376	0.248	ug/l #	81
24) 1,1-Dichloroethane	3.70	63	3404	1.213	ug/l	94
25) 2-Butanone	4.71	43	507	0.342	ug/l #	51
31) Cyclohexane	5.67	56	3178	1.354	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	3426	1.561	ug/l #	50
36) 1,1-Dichloropropene	5.67	75	10925	5.060	ug/l #	49
38) Carbon Tetrachloride	5.67	117	12048	6.177	ug/l #	17
60) Dibromochloromethane	9.34	129	420	0.288	ug/l #	10
64) Tetrachloroethene	9.34	164	342	0.269	ug/l #	76
76) 1,2,3-Trichloropropane	11.14	75	41916	21.893	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	41916	70.734	ug/l #	9

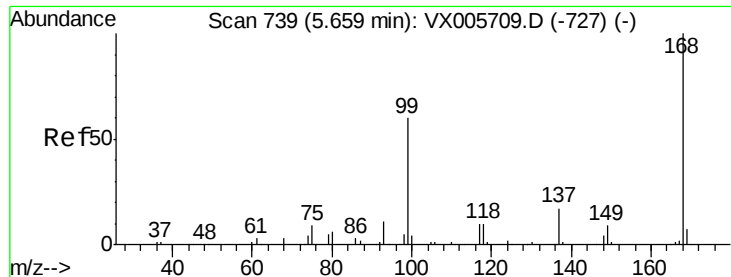
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

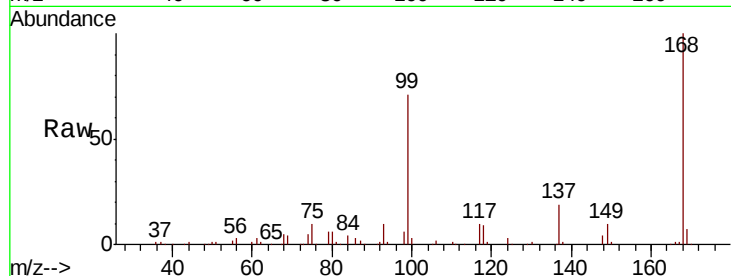
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 120108

Ion Ratio Lower Upper

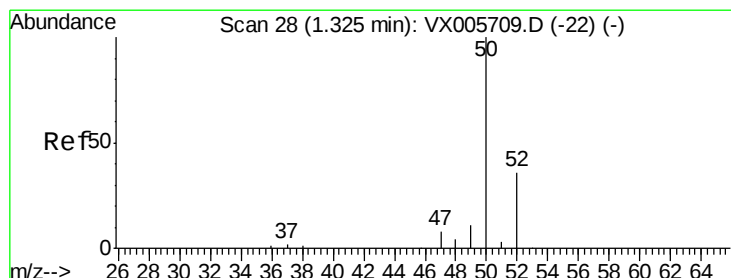
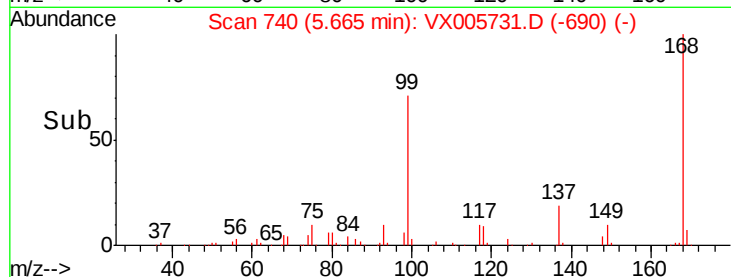
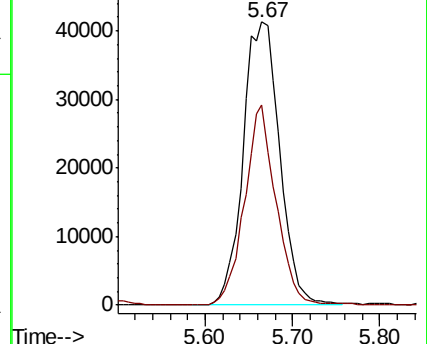
168 100

99 70.7 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: 0.213 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005731.D

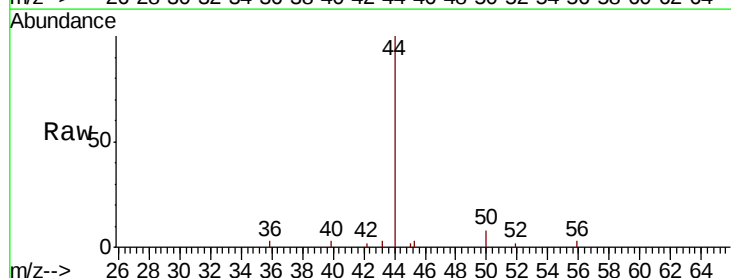
Acq: 01 Nov 2018 16:04

Tgt Ion: 50 Resp: 348

Ion Ratio Lower Upper

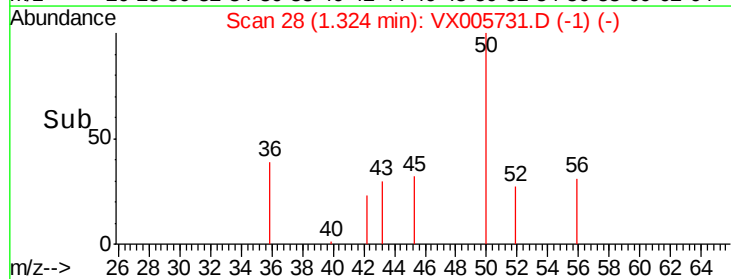
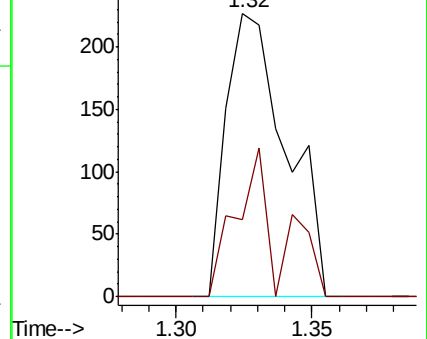
50 100

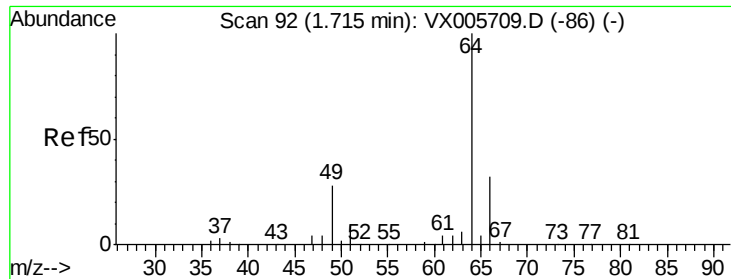
52 27.3 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.76 min Scan# 100

Delta R.T. 0.05 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

Instrument :

MSVOA_X

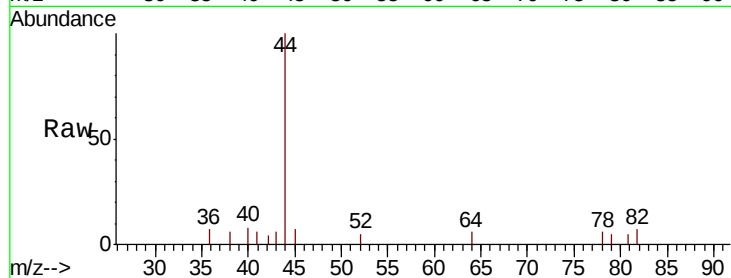
ClientSampled :

Tot Ion: 64 Resp: 78

Ion Ratio Lower Upper

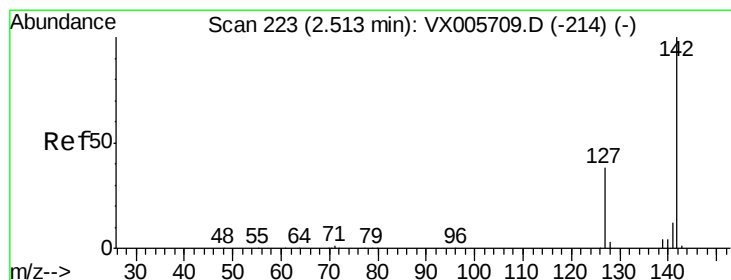
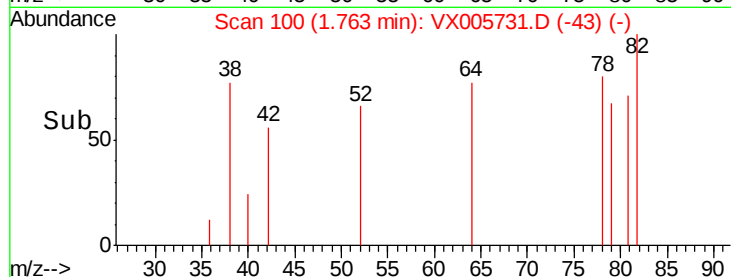
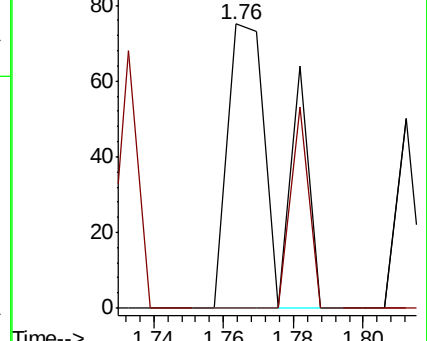
64 100

66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.003 ug/l

RT: 2.51 min Scan# 222

Delta R.T. -0.01 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

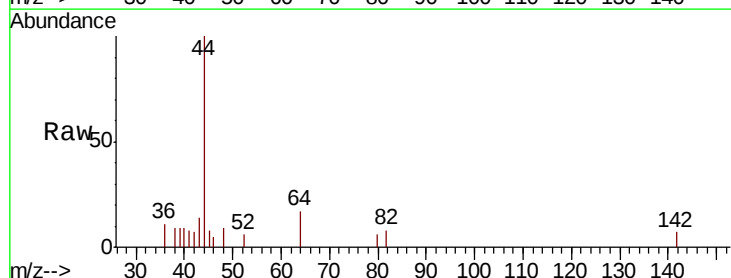
Tgt Ion: 142 Resp: 84

Ion Ratio Lower Upper

142 100

127 0.0 36.0 54.0#

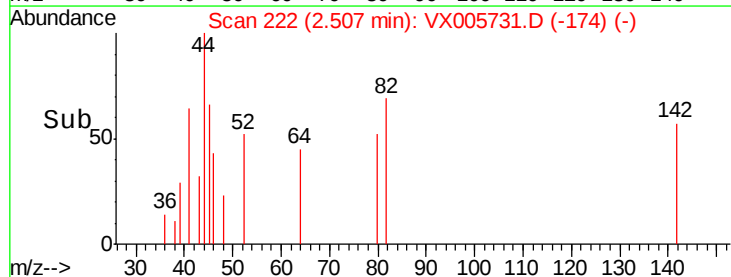
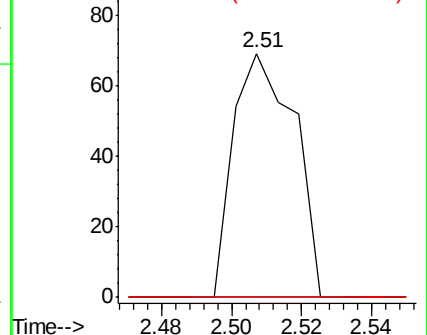
141 0.0 11.7 17.5#

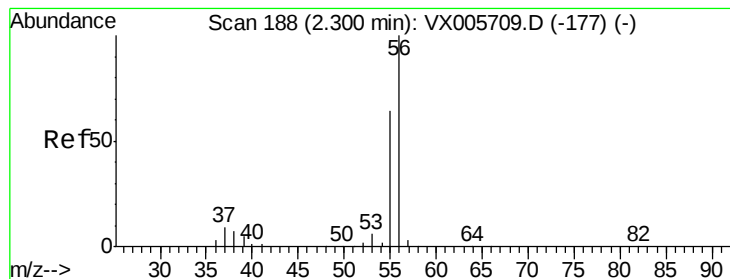


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 12.236 ug/l

RT: 2.13 min Scan# 160

Delta R.T. -0.17 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

Instrument :

MSVOA_X

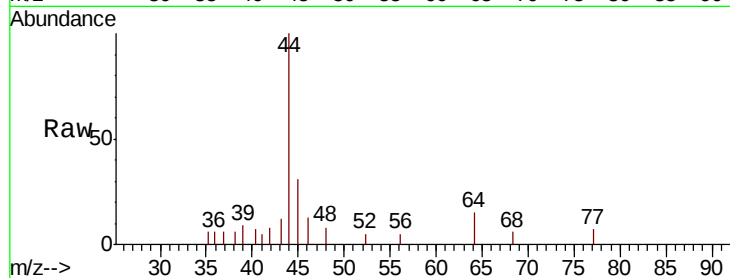
ClientSampleId :

Tot Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 0.0 57.3 85.9#

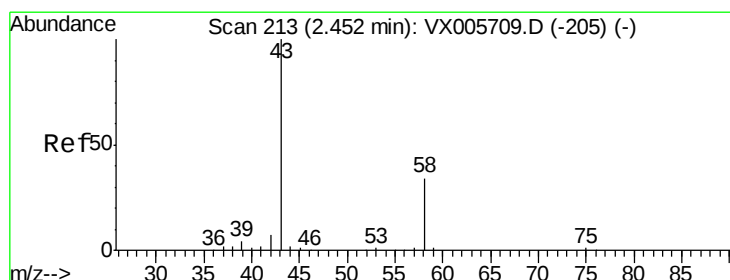
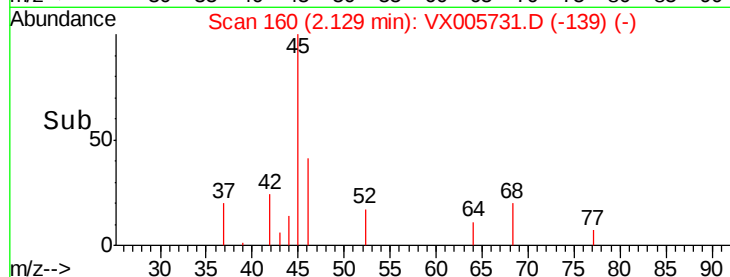


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.13

Time-->



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX005731.D

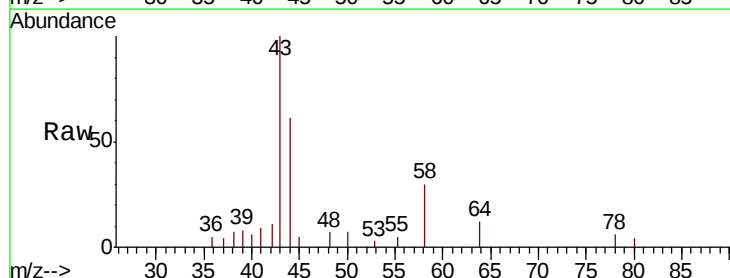
Acq: 01 Nov 2018 16:04

Tgt Ion: 43 Resp: 2723

Ion Ratio Lower Upper

43 100

58 30.1 23.8 35.6

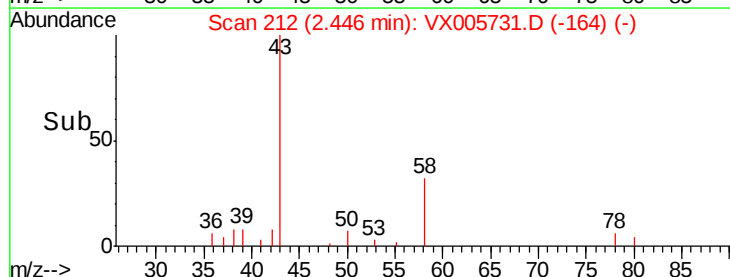


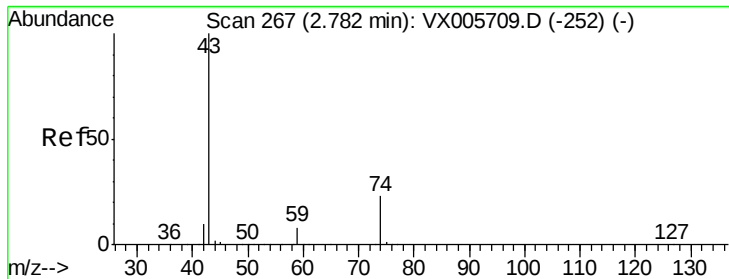
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

Time-->

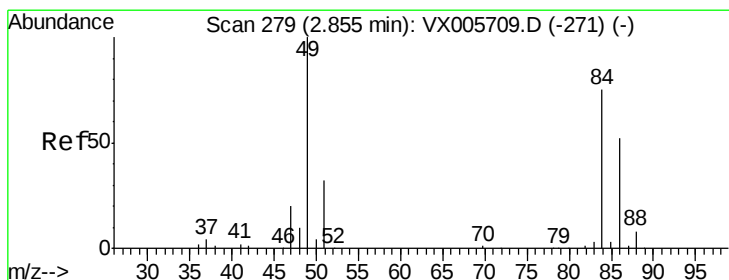
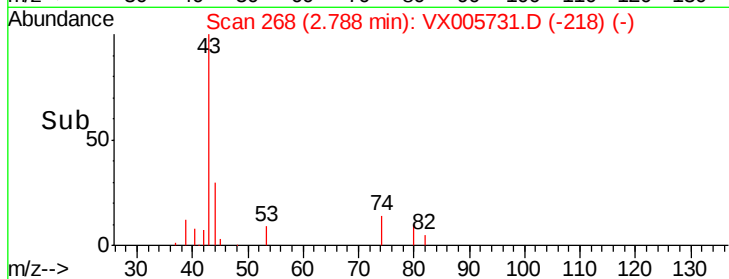
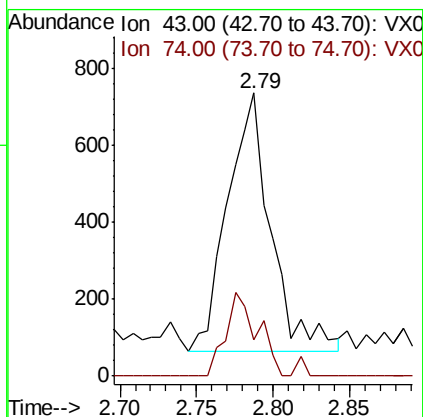
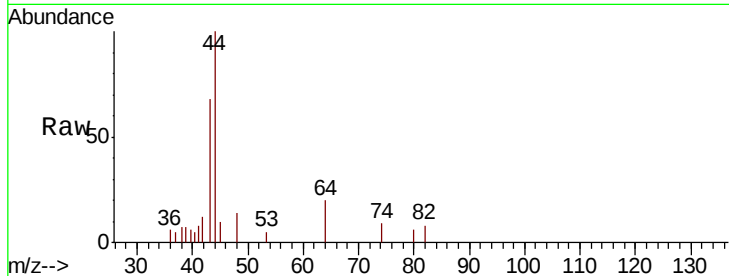




#18
Methyl Acetate
Concen: 0.521 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX005731.D
Acq: 01 Nov 2018 16:04

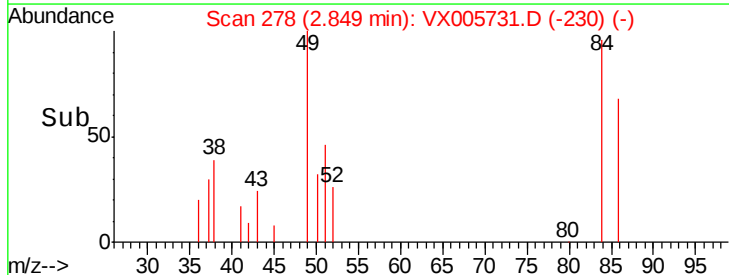
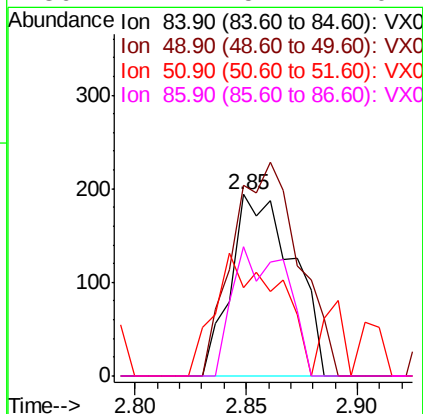
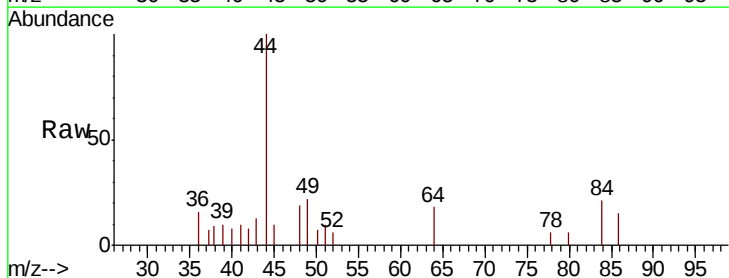
Instrument :
MSVOA_X
ClientSampled :

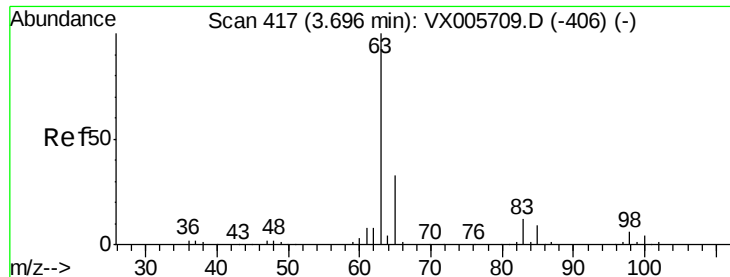
Tot Ion: 43 Resp: 1312
Ion Ratio Lower Upper
43 100
74 24.0 16.8 25.2



#20
Methylene Chloride
Concen: 0.248 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX005731.D
Acq: 01 Nov 2018 16:04

Tgt Ion: 84 Resp: 376
Ion Ratio Lower Upper
84 100
49 104.6 109.5 164.3#
51 48.5 33.3 49.9
86 71.1 52.7 79.1





#24

1,1-Dichloroethane

Concen: 1.213 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

Instrument :
MSVOA_X
ClientSampleId :

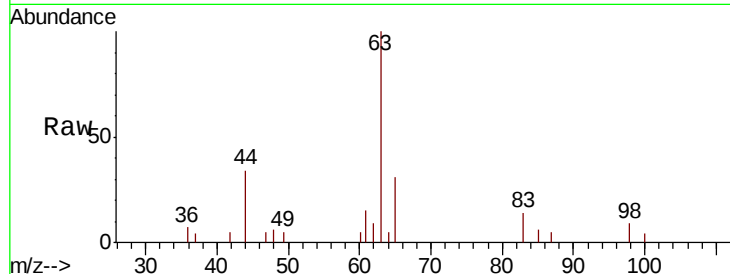
Tot Ion: 63 Resp: 3404

Ion Ratio Lower Upper

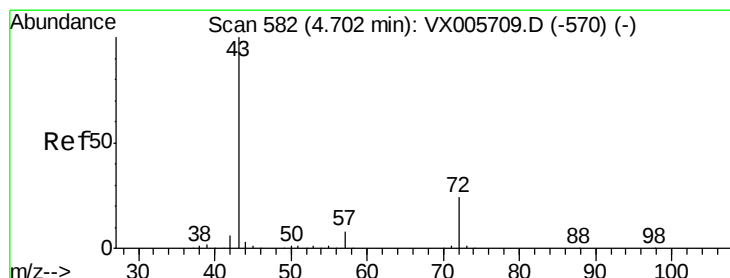
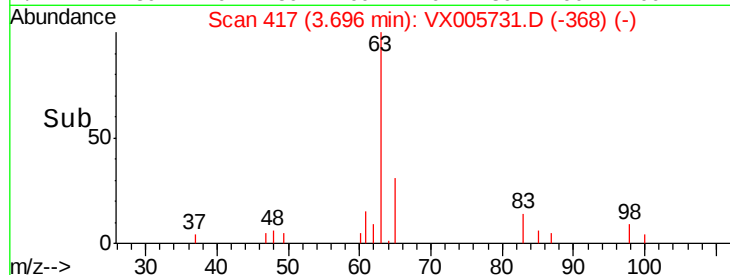
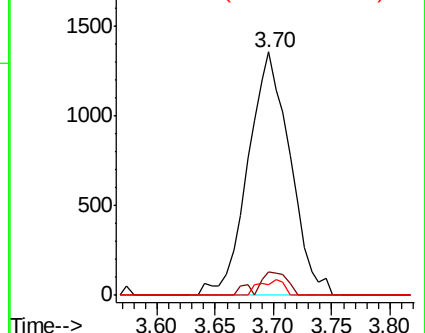
63 100

98 9.5 3.2 9.6

100 4.3 2.1 6.2



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#25

2-Butanone

Concen: 0.342 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX005731.D

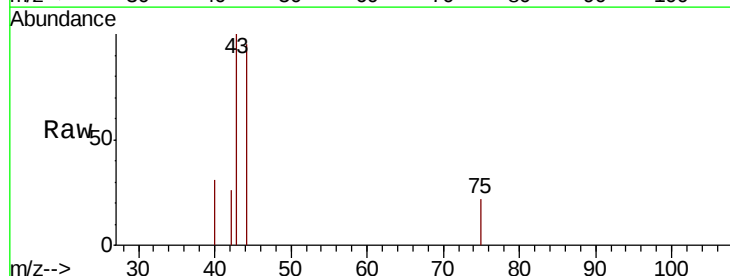
Acq: 01 Nov 2018 16:04

Tgt Ion: 43 Resp: 507

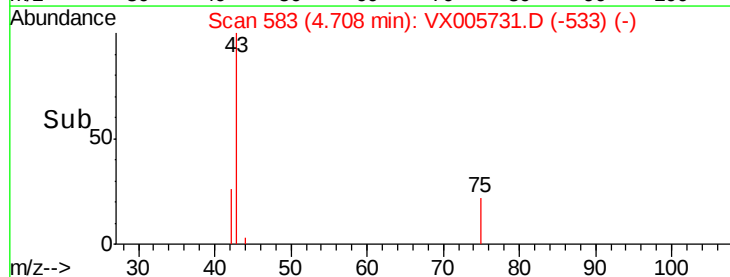
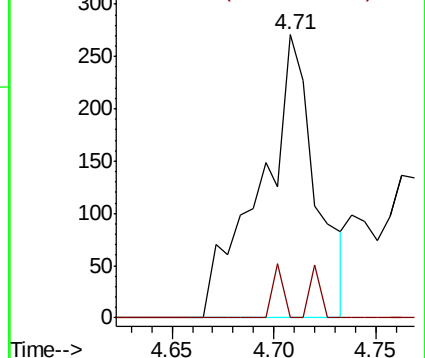
Ion Ratio Lower Upper

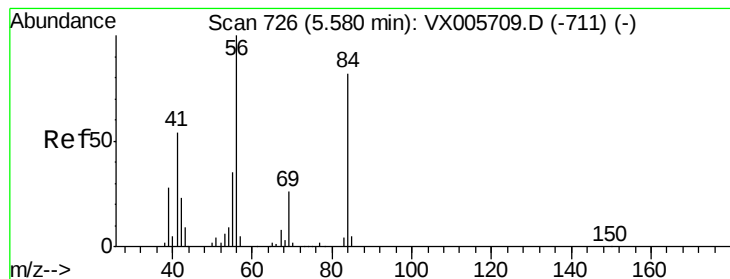
43 100

72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#31

Cyclohexane

Concen: 1.354 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

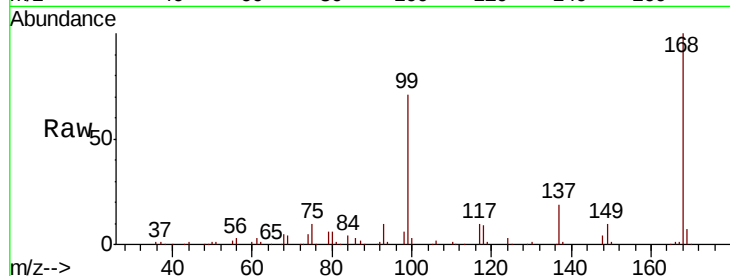
Tot Ion: 56 Resp: 3178

Ion Ratio Lower Upper

56 100

69 157.9 22.6 34.0#

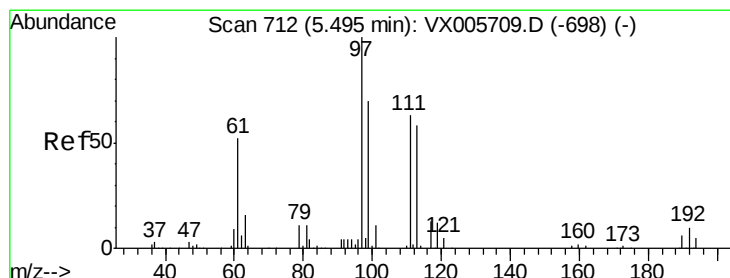
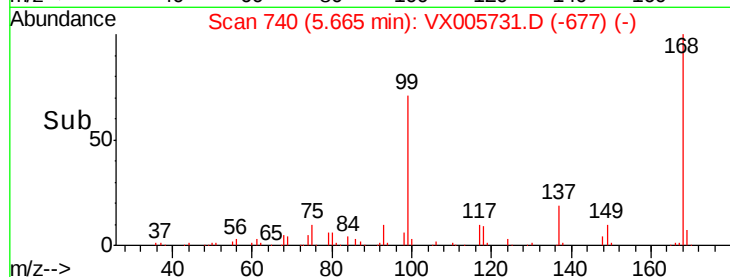
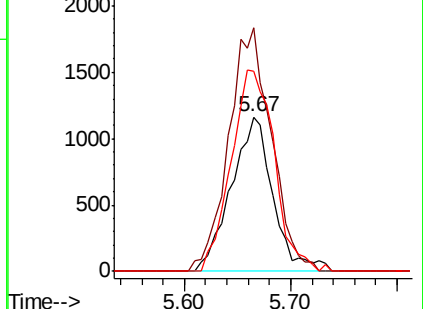
84 130.0 62.7 94.1#



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



#32

1,1,1-Trichloroethane

Concen: 1.561 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

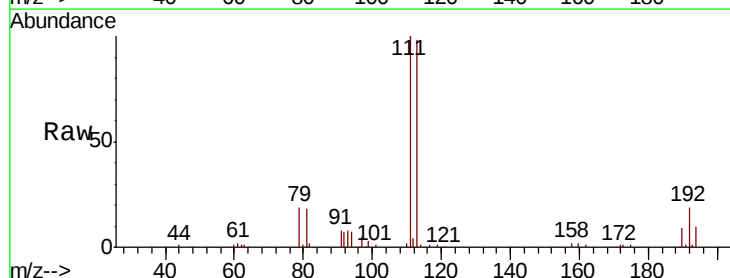
Tgt Ion: 97 Resp: 3426

Ion Ratio Lower Upper

97 100

99 0.0 52.3 78.5#

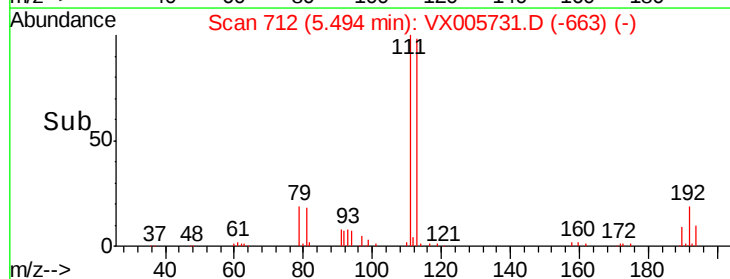
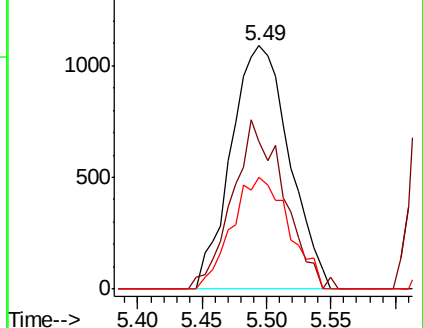
61 45.0 35.2 52.8

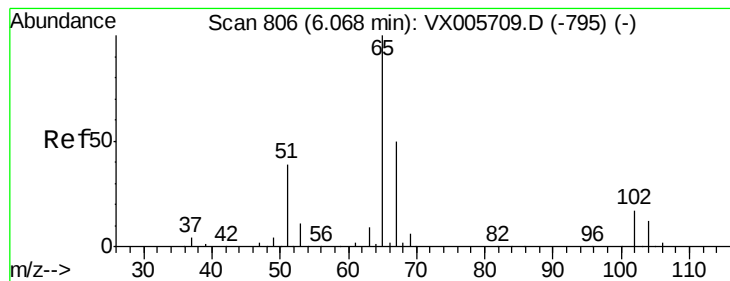


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 51.191 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

Instrument :

MSVOA_X

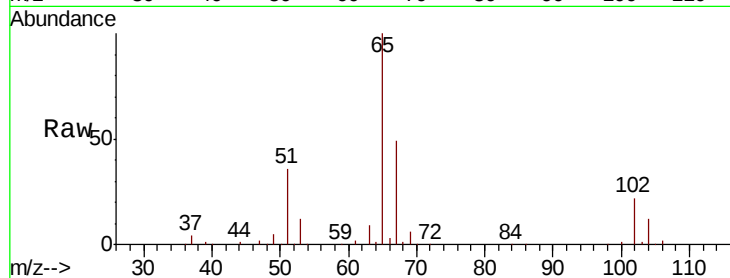
ClientSampleId :

Tot Ion: 65 Resp: 89891

Ion Ratio Lower Upper

65 100

67 52.6 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

40000

30000

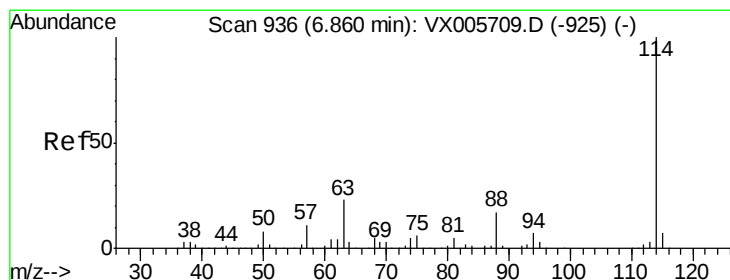
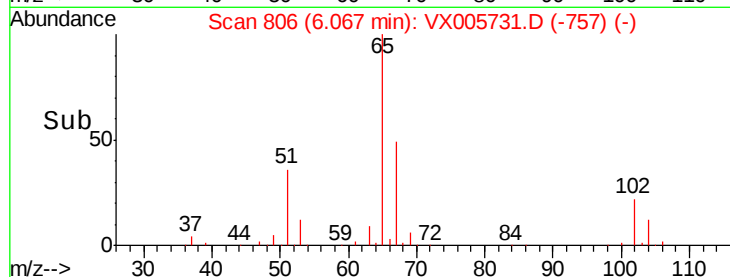
20000

10000

0

6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

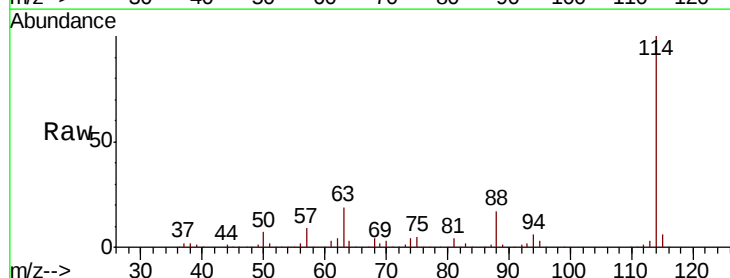
Tgt Ion: 114 Resp: 202634

Ion Ratio Lower Upper

114 100

63 19.4 0.0 42.8

88 17.1 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

120000

100000

80000

60000

40000

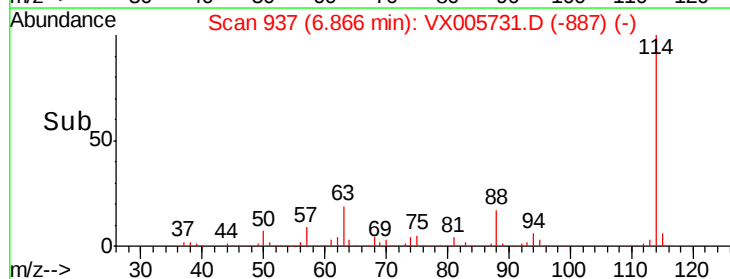
20000

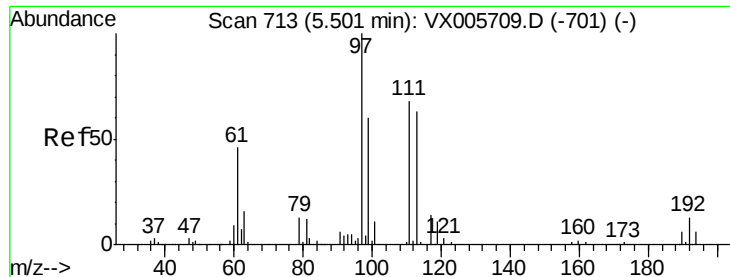
0

6.87

6.70 6.80 6.90 7.00 7.10

Time-->





#35

Dibromofluoromethane

Concen: 48.371 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

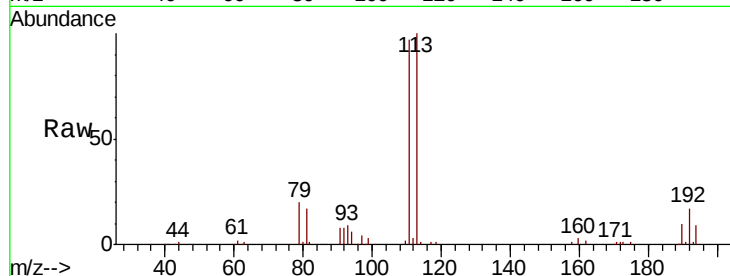
Tot Ion:113 Resp: 67867

Ion Ratio Lower Upper

113 100

111 101.6 82.3 123.5

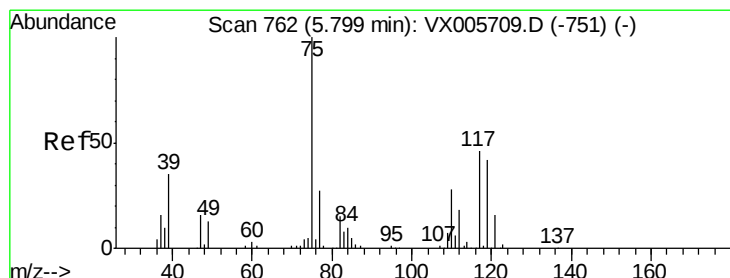
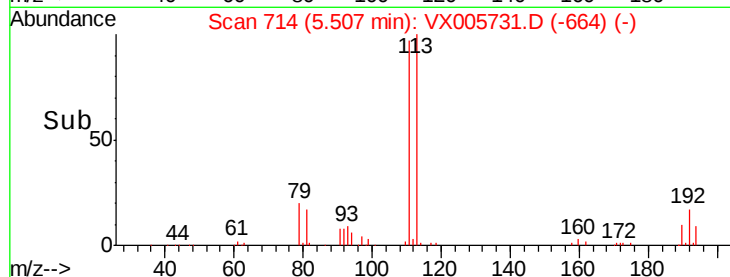
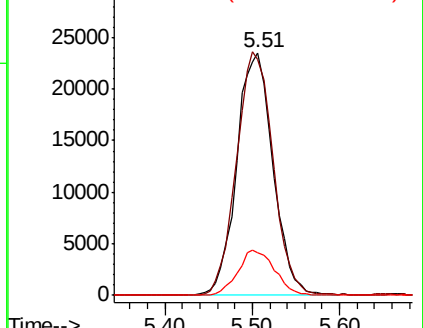
192 18.9 17.9 26.9



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: 5.060 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

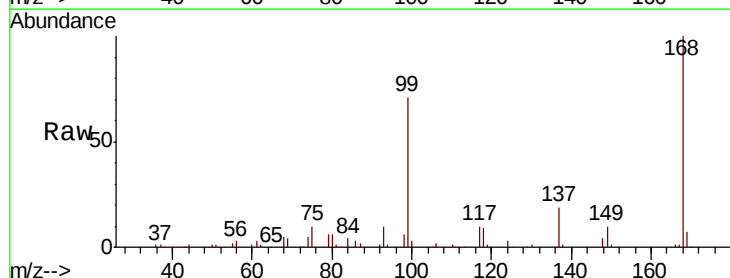
Tgt Ion: 75 Resp: 10925

Ion Ratio Lower Upper

75 100

110 9.1 17.4 52.2#

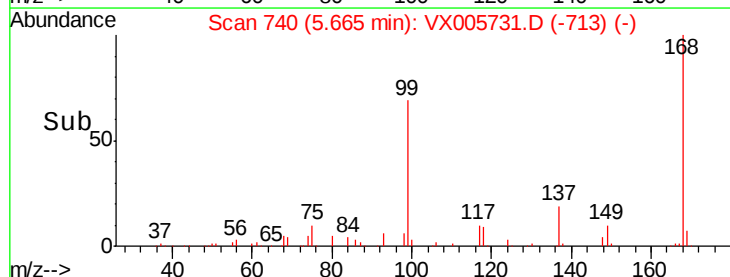
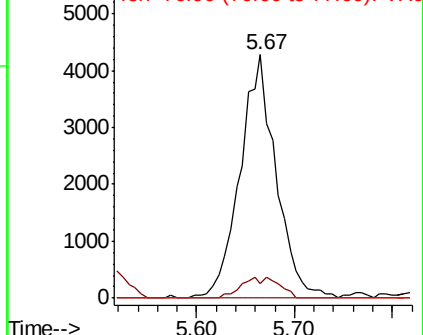
77 0.0 25.8 38.6#

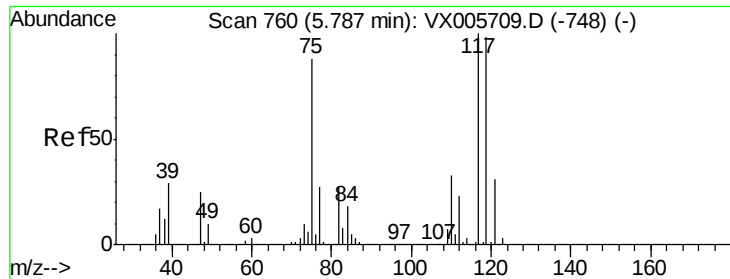


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.177 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.12 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampled :

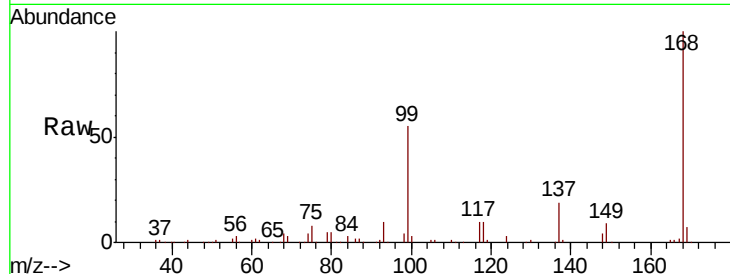
Tot Ion:117 Resp: 12048

Ion Ratio Lower Upper

117 100

119 7.0 78.1 117.1#

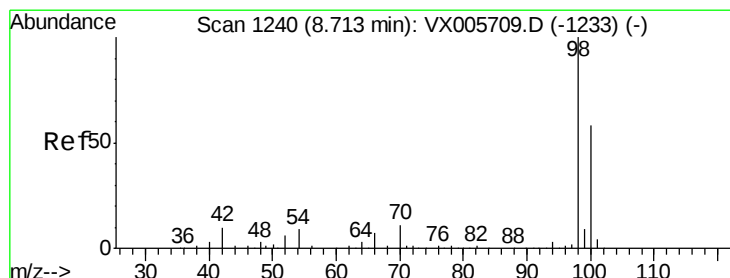
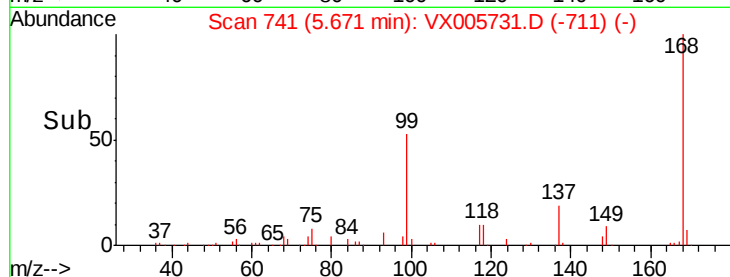
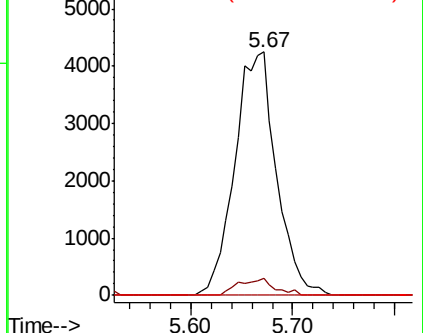
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 49.755 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005731.D

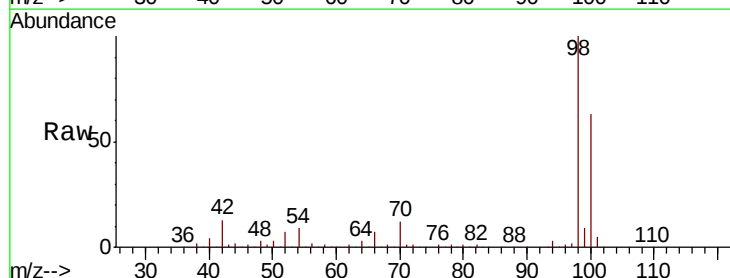
Acq: 01 Nov 2018 16:04

Tgt Ion: 98 Resp: 244842

Ion Ratio Lower Upper

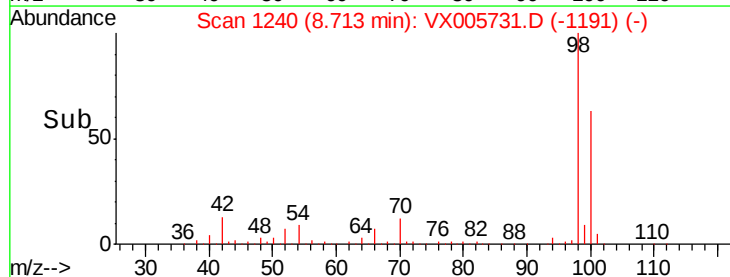
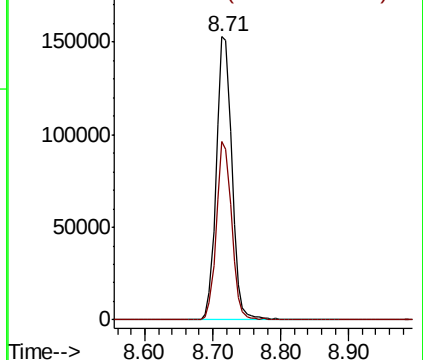
98 100

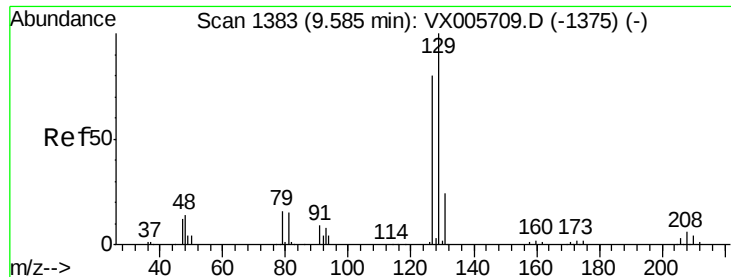
100 61.9 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 0.288 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. -0.24 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

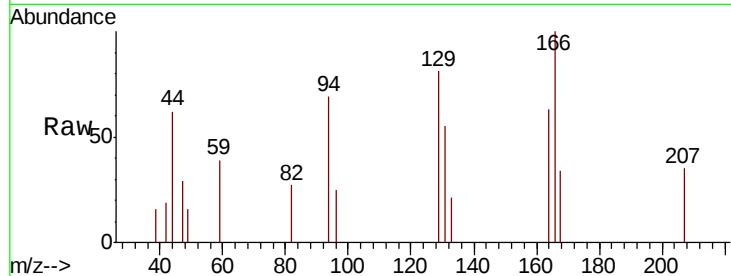
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 420

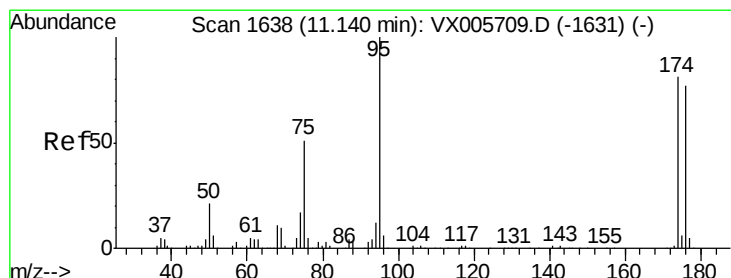
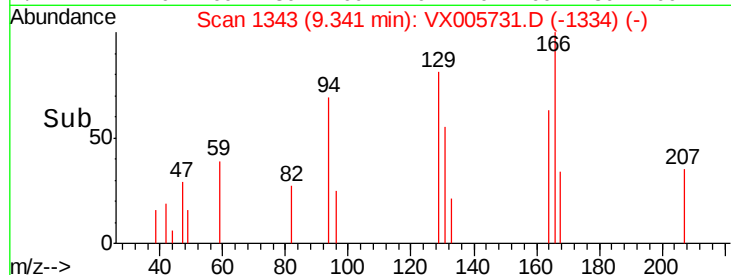
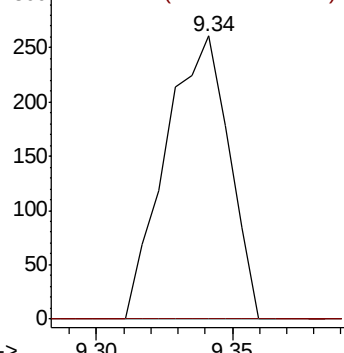
Ion Ratio Lower Upper

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



#62

4-Bromofluorobenzene

Concen: 43.280 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

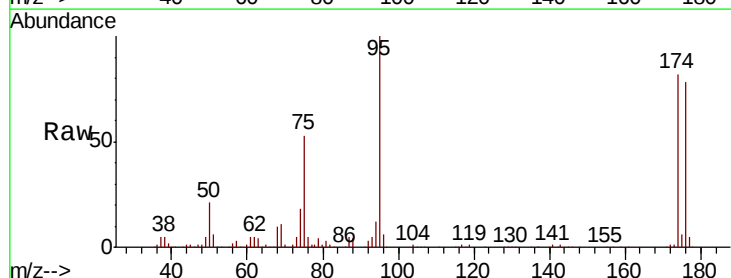
Tgt Ion: 95 Resp: 78604

Ion Ratio Lower Upper

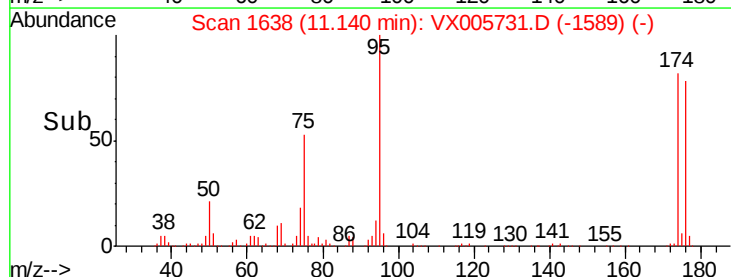
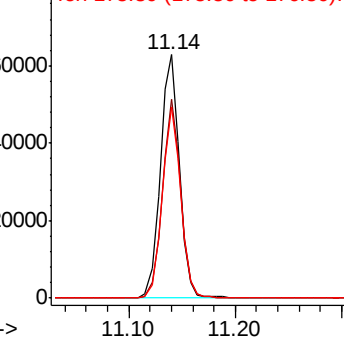
95 100

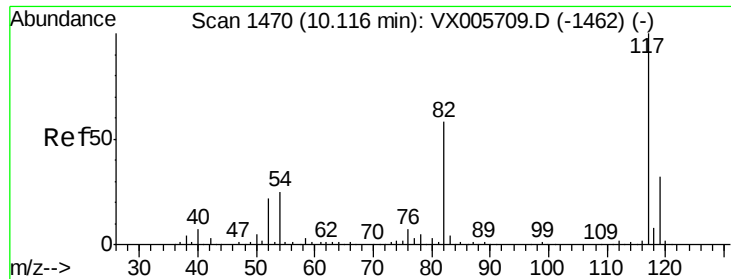
174 78.7 0.0 184.4

176 75.9 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

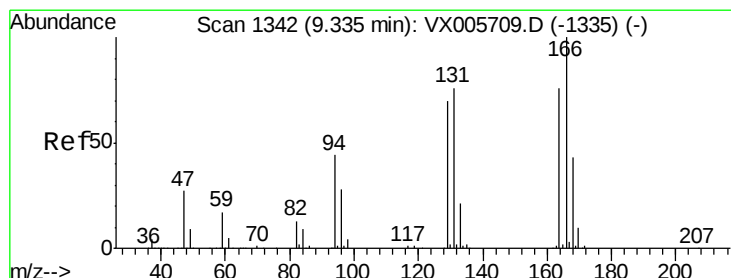
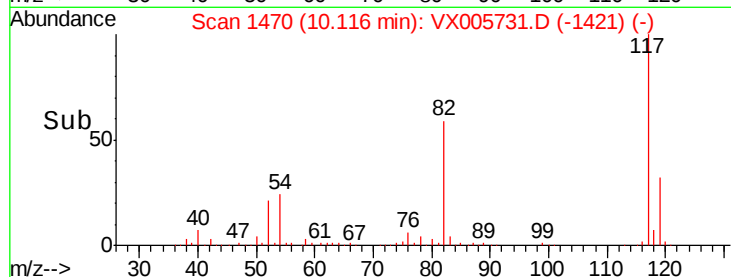
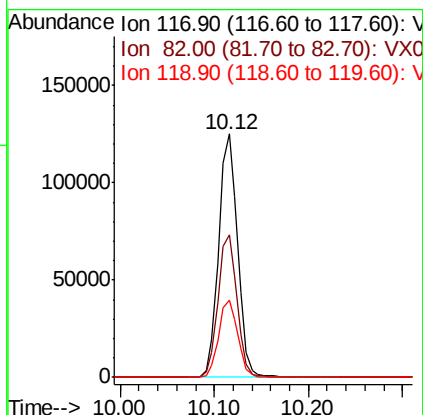
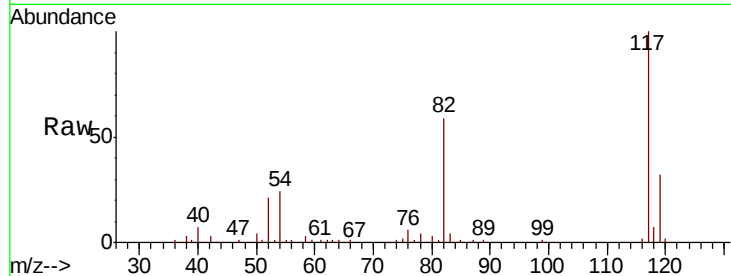




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005731.D
Acq: 01 Nov 2018 16:04

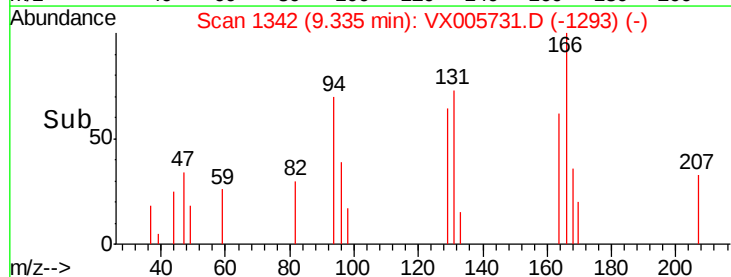
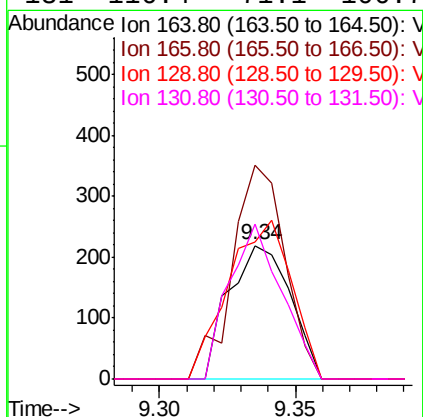
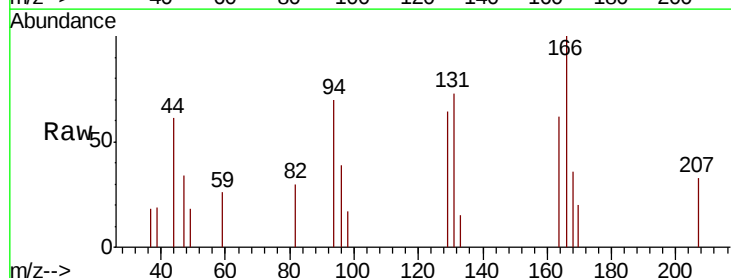
Instrument :
MSVOA_X
ClientSampleId :

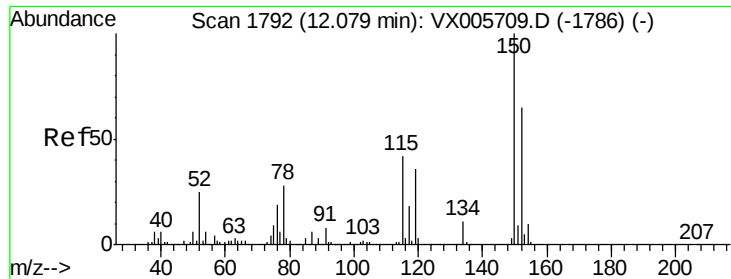
Tot Ion:117 Resp: 174242
Ion Ratio Lower Upper
117 100
82 58.7 44.1 66.1
119 31.8 26.2 39.2



#64
Tetrachloroethene
Concen: 0.269 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX005731.D
Acq: 01 Nov 2018 16:04

Tgt Ion:164 Resp: 342
Ion Ratio Lower Upper
164 100
166 160.3 101.9 152.9#
129 102.3 72.6 109.0
131 116.4 71.1 106.7#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

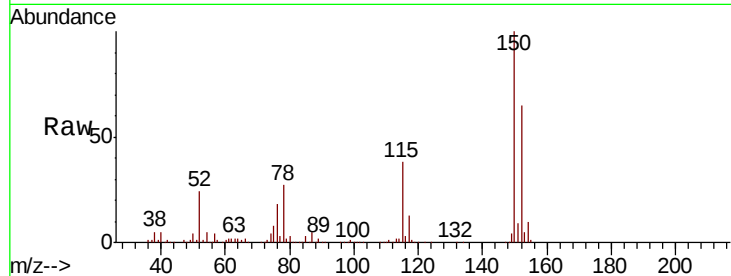
Tot Ion:152 Resp: 76873

Ion Ratio Lower Upper

152 100

115 59.5 39.4 118.1

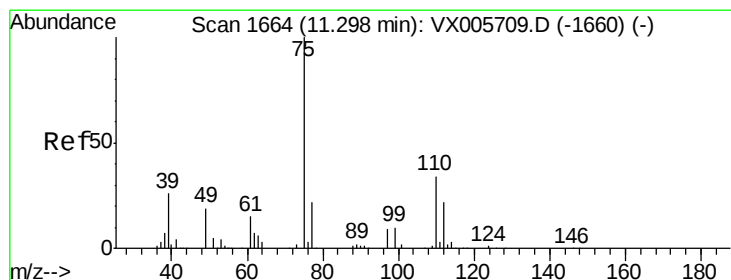
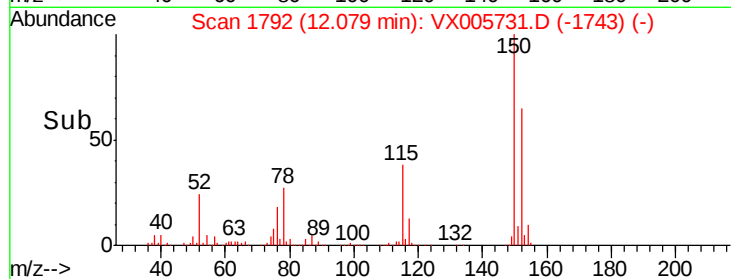
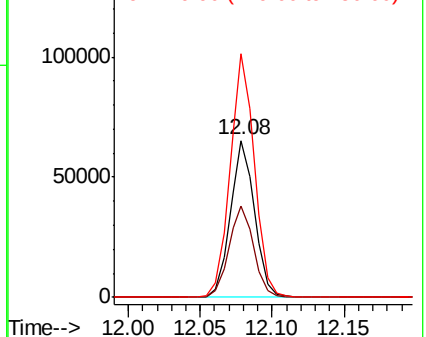
150 156.6 0.0 346.4



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: 21.893 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005731.D

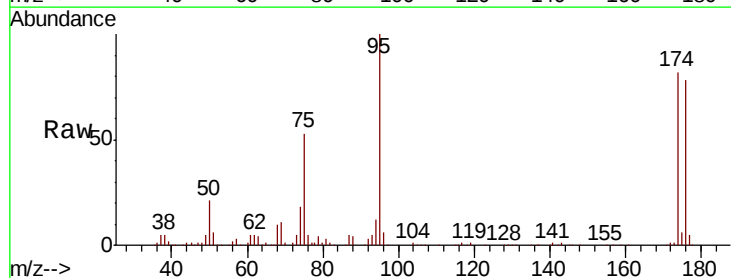
Acq: 01 Nov 2018 16:04

Tgt Ion: 75 Resp: 41916

Ion Ratio Lower Upper

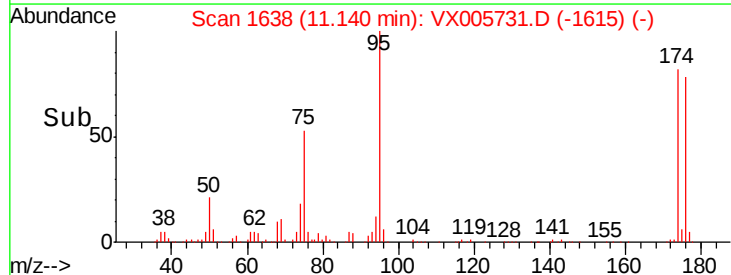
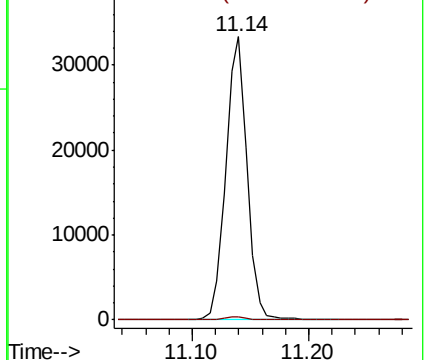
75 100

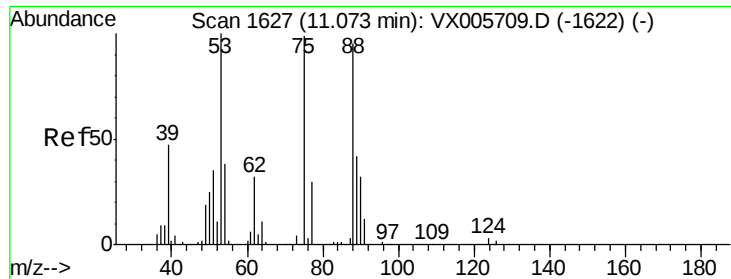
77 1.2 20.5 61.6#



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: 70.734 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005731.D

Acq: 01 Nov 2018 16:04

Instrument :

MSVOA_X

ClientSampleId :

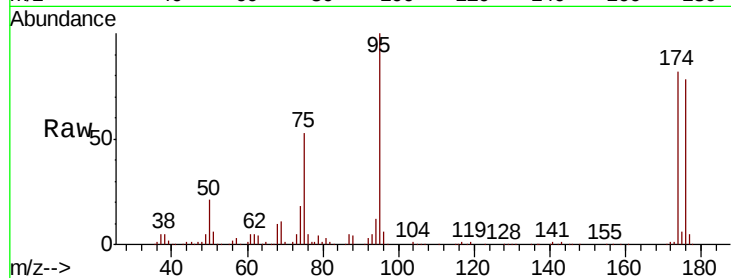
Tot Ion: 75 Resp: 41916

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

