

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072118\
 Data File : VX003557.D
 Acq On : 21 Jul 2018 16:14
 Operator : JC/SP
 Sample : J4014-10DL 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-071318DL

Quant Time: Jul 23 01:38:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	281090	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	426677	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	395508	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	218527	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	177577	53.37	ug/l	0.00
Spiked Amount			Recovery	=	106.74%	
35) Dibromofluoromethane	5.51	113	156421	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	
50) Toluene-d8	8.72	98	595218	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
62) 4-Bromofluorobenzene	11.14	95	204241	45.82	ug/l	0.00
Spiked Amount			Recovery	=	91.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	97	Below Cal	#	43
3) Chloromethane	1.33	50	533	Below Cal	#	88
5) Bromomethane	1.65	94	818	Below Cal		95
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1353	0.43	ug/l	95
10) Methyl Iodide	2.52	142	1388	0.37	ug/l	91
12) 1,1-Dichloroethene	2.37	96	628	0.22	ug/l #	84
13) Acrolein	2.31	56	172	0.58	ug/l #	81
16) Acetone	2.45	43	1082	0.86	ug/l	95
20) Methylene Chloride	2.86	84	664	Below Cal		90
26) 2,2-Dichloropropane	4.77	77	966	0.23	ug/l #	53
29) Tetrahydrofuran	5.17	42	934	0.67	ug/l #	43
31) Cyclohexane	5.67	56	4587	0.91	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17670	3.84	ug/l #	50
38) Carbon Tetrachloride	5.67	117	24223	5.36	ug/l #	16
44) Trichloroethene	7.21	130	156782	37.80	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	94382	24.04	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	94382	67.42	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

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ClientSampleId :

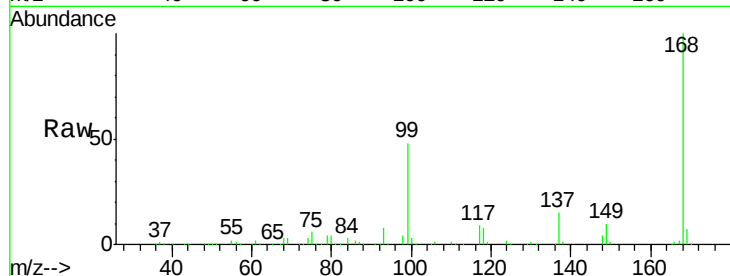
RE105D2-071318DL

Tot Ion:168 Resp: 281090

Ion Ratio Lower Upper

168 100

99 48.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

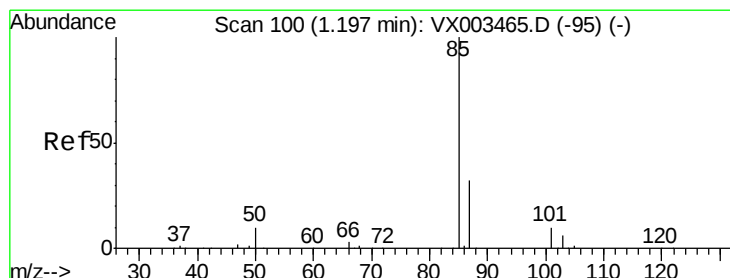
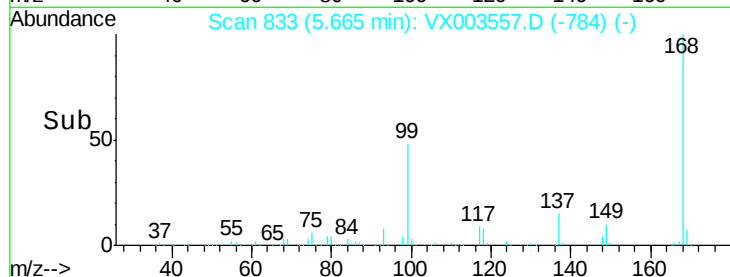
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003557.D

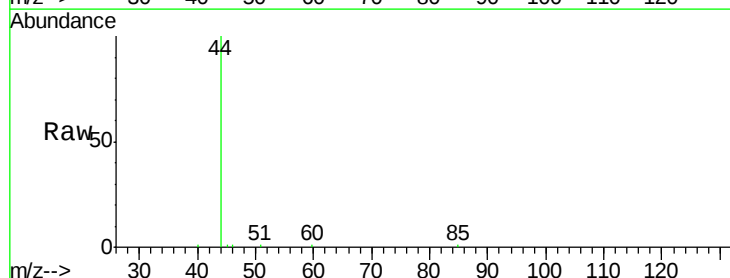
Acq: 21 Jul 2018 16:14

Tgt Ion: 85 Resp: 97

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

120

100

80

60

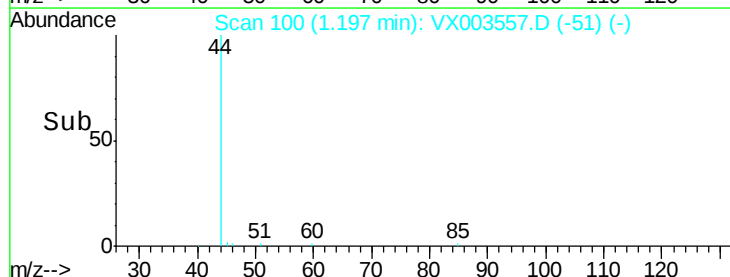
40

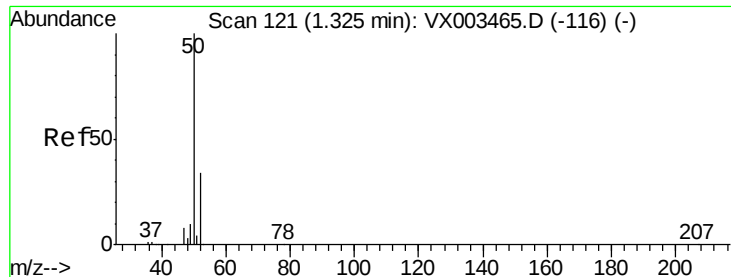
20

0

Time-->

1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

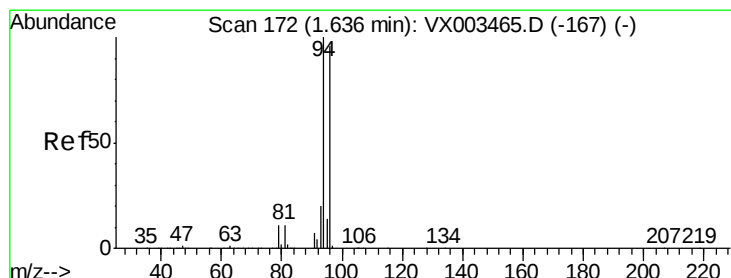
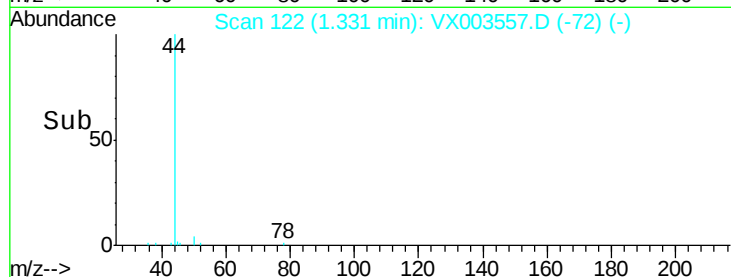
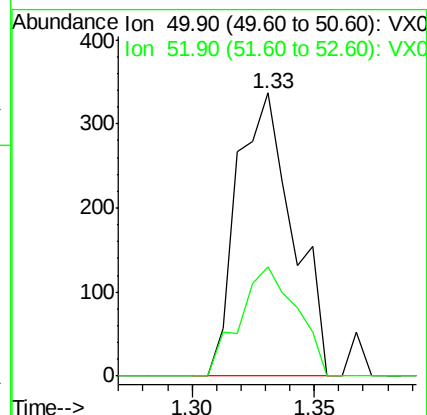
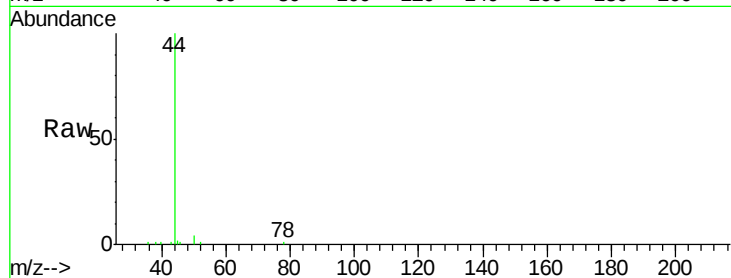
RE105D2-071318DL

Tot Ion: 50 Resp: 533

Ion Ratio Lower Upper

50 100

52 38.6 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003557.D

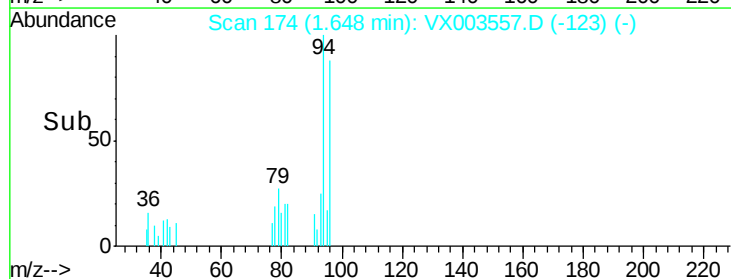
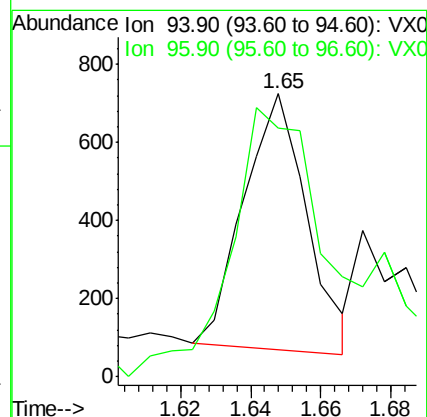
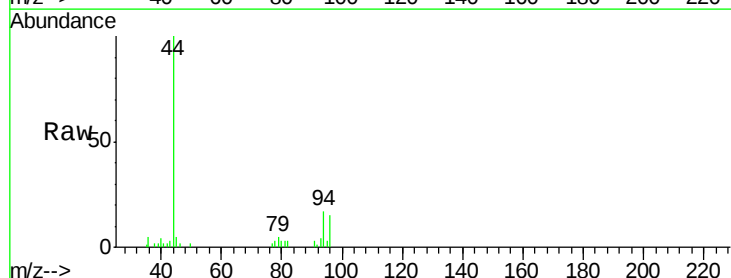
Acq: 21 Jul 2018 16:14

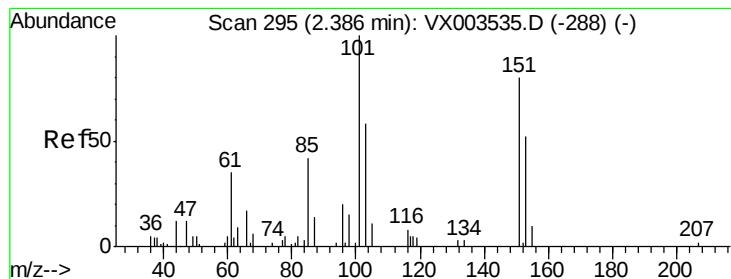
Tgt Ion: 94 Resp: 818

Ion Ratio Lower Upper

94 100

96 88.7 74.9 112.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.43 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-071318DL

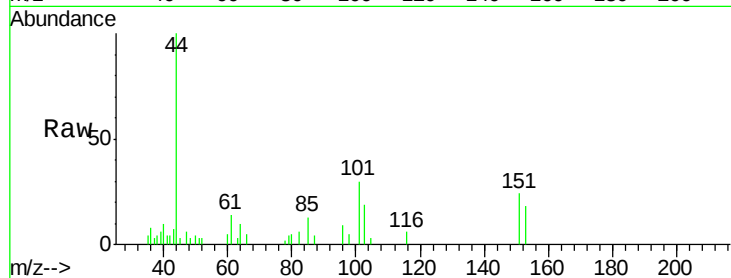
Tot Ion:101 Resp: 1353

Ion Ratio Lower Upper

101 100

85 42.1 36.0 54.0

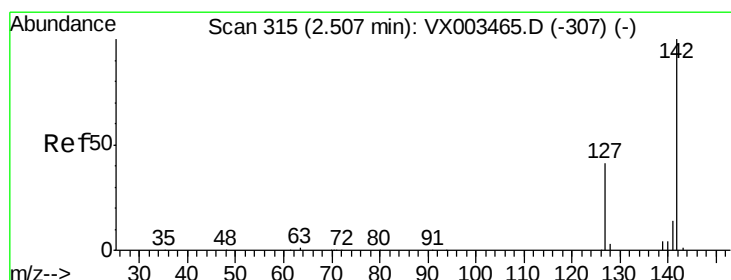
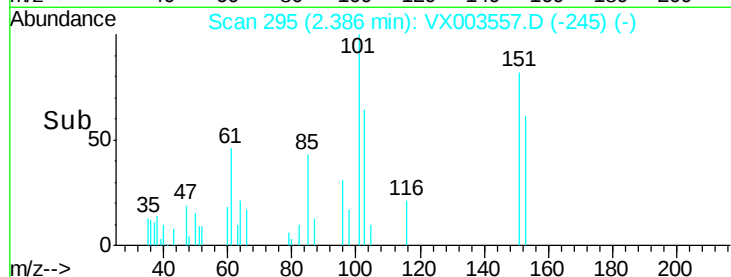
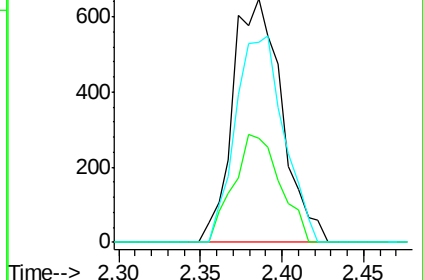
151 83.6 70.9 106.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.37 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

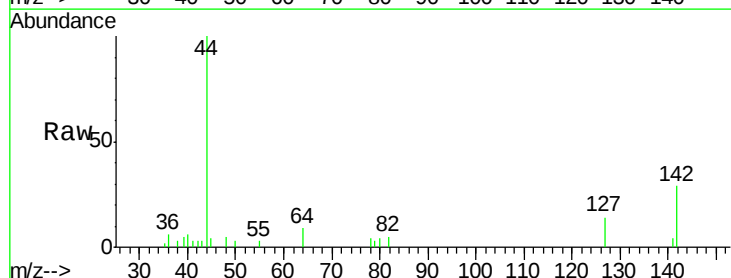
Tgt Ion:142 Resp: 1388

Ion Ratio Lower Upper

142 100

127 38.1 36.6 55.0

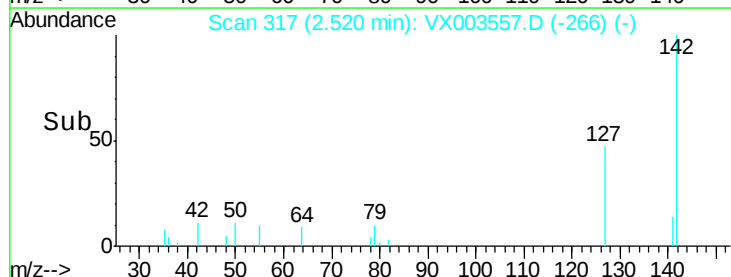
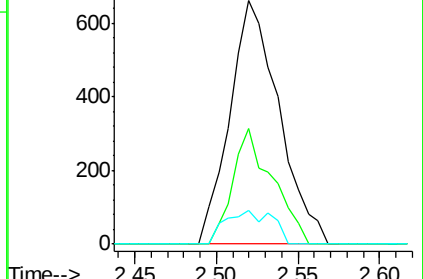
141 13.3 11.3 16.9

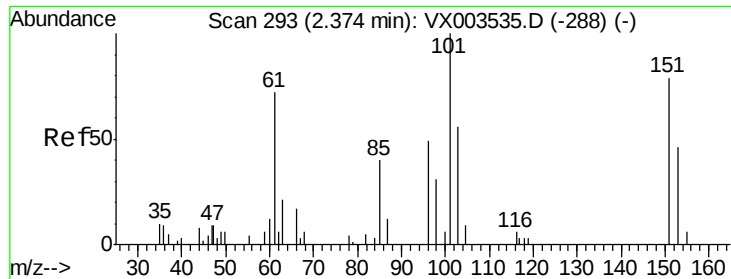


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#12

1,1-Dichloroethene

Concen: 0.22 ug/l

RT: 2.37 min Scan# 293

Delta R.T. -0.00 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-071318DL

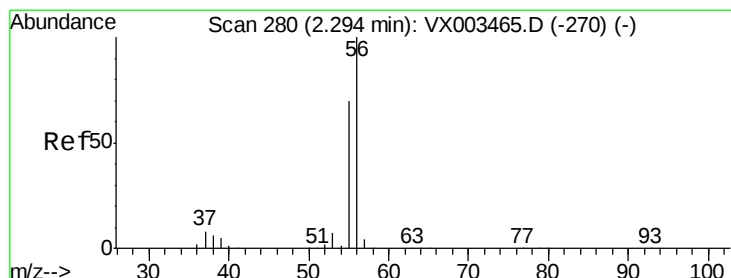
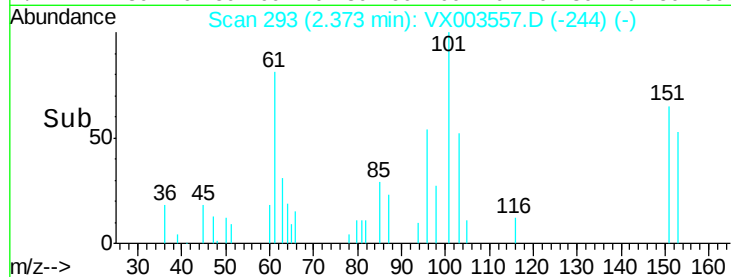
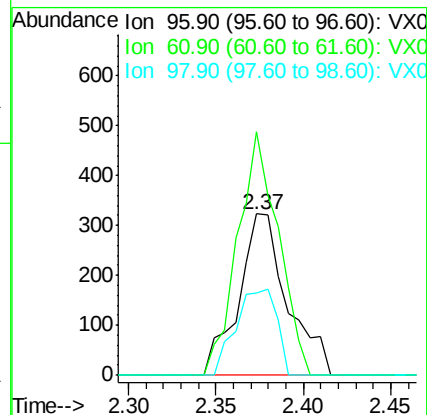
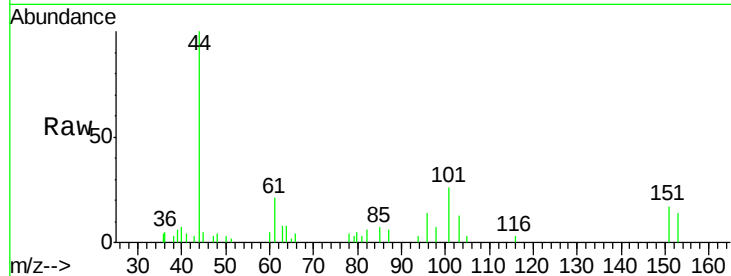
Tot Ion: 96 Resp: 628

Ion Ratio Lower Upper

96 100

61 151.1 137.9 206.9

98 50.8 51.6 77.4#



#13

Acrolein

Concen: 0.58 ug/l

RT: 2.31 min Scan# 283

Delta R.T. 0.02 min

Lab File: VX003557.D

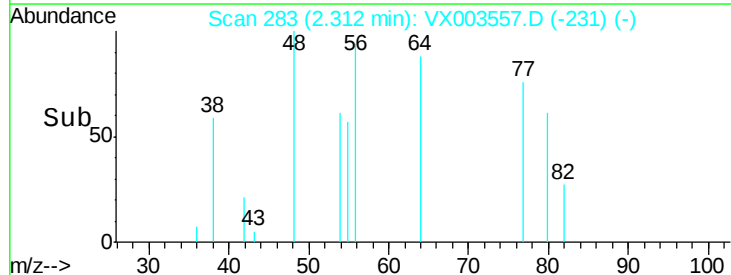
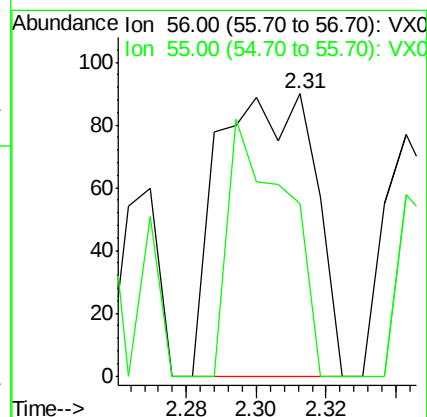
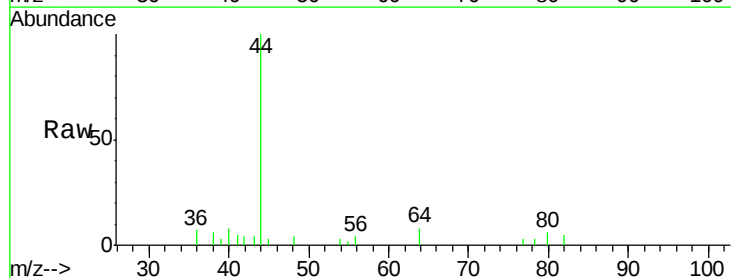
Acq: 21 Jul 2018 16:14

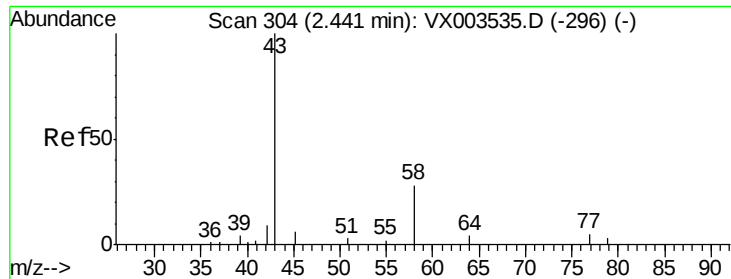
Tgt Ion: 56 Resp: 172

Ion Ratio Lower Upper

56 100

55 55.2 57.0 85.4#





#16

Acetone

Concen: 0.86 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

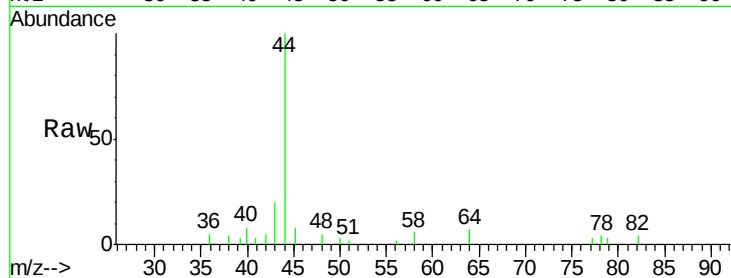
RE105D2-071318DL

Tot Ion: 43 Resp: 1082

Ion Ratio Lower Upper

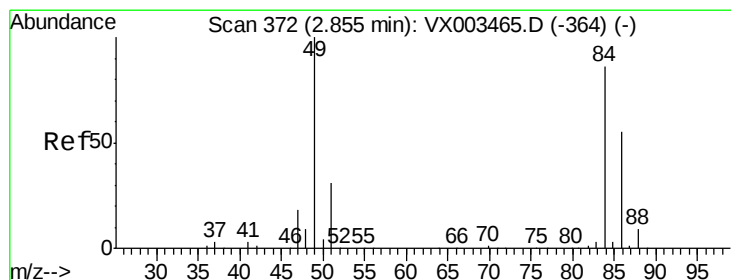
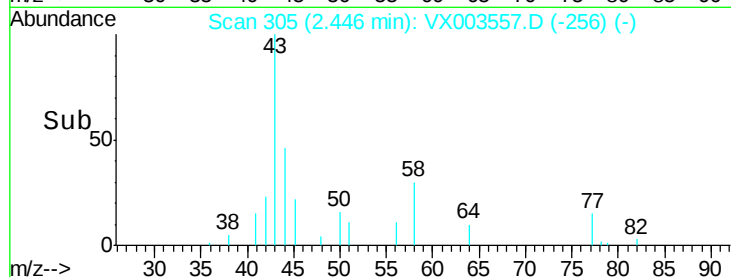
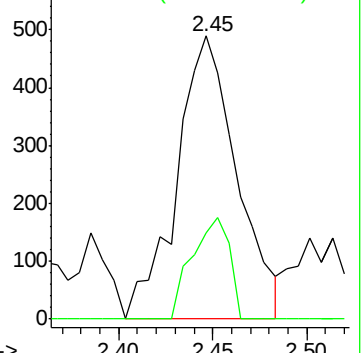
43 100

58 30.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

Tgt Ion: 84 Resp: 664

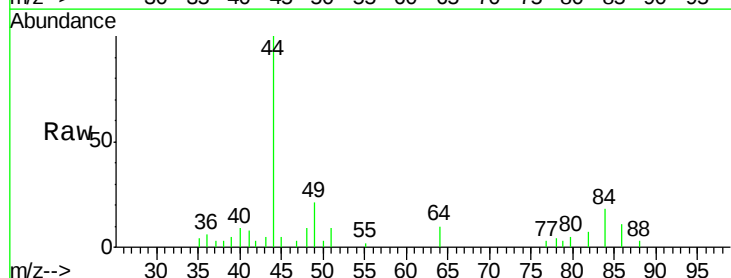
Ion Ratio Lower Upper

84 100

49 119.5 107.8 161.6

51 48.8 32.8 49.2

86 63.0 52.5 78.7

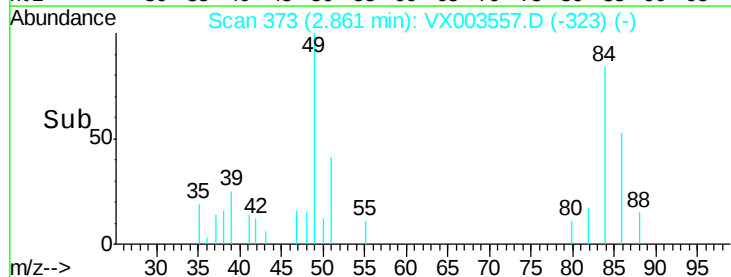
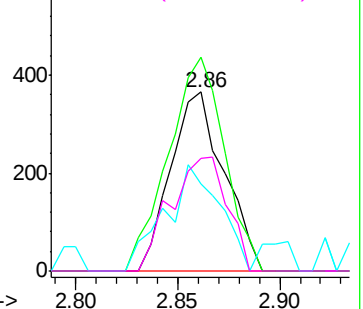


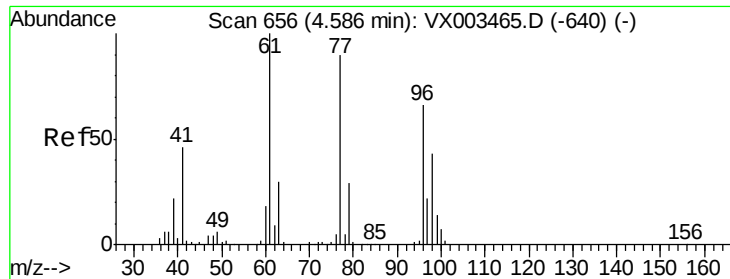
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

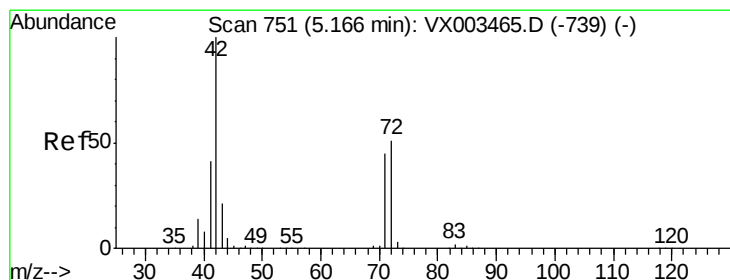
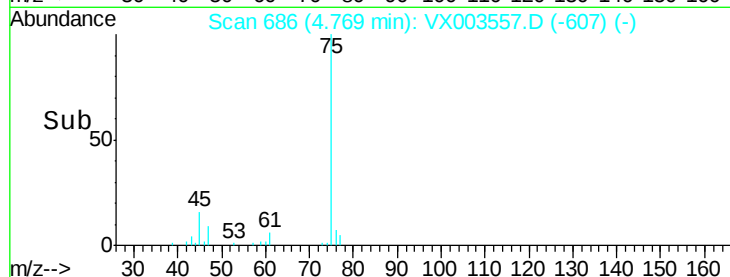
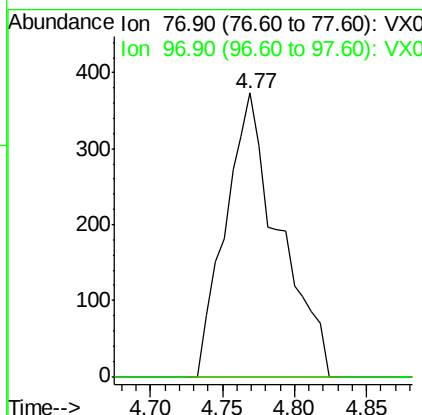
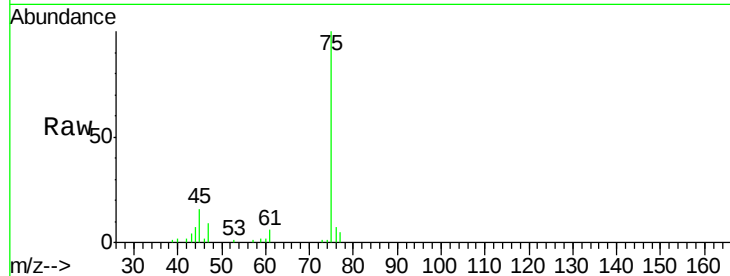




#26
 2,2-Dichloropropane
 Concen: 0.23 ug/l
 RT: 4.77 min Scan# 686
 Delta R.T. 0.18 min
 Lab File: VX003557.D
 Acq: 21 Jul 2018 16:14

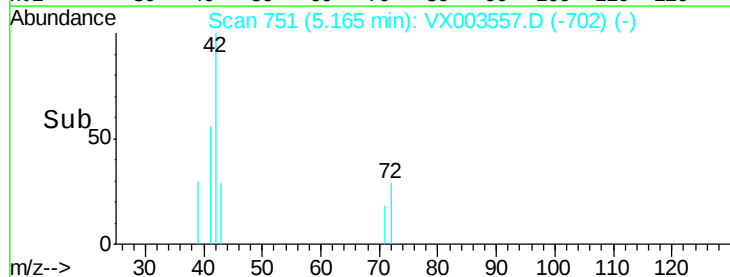
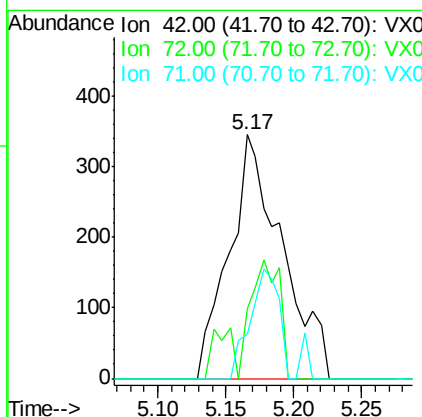
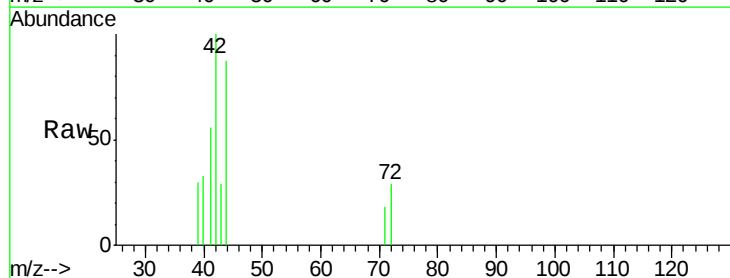
Instrument :
 MSVOA_X
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 RE105D2-071318DL

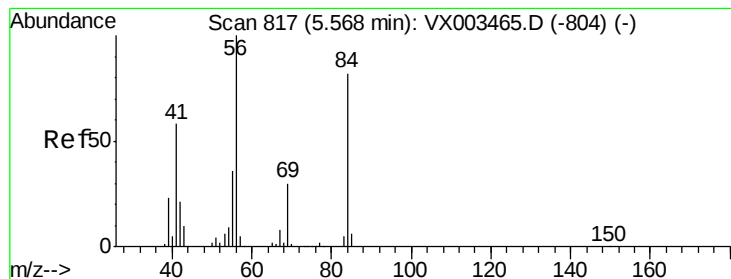
Tot Ion: 77 Resp: 966
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.2 33.5#



#29
 Tetrahydrofuran
 Concen: 0.67 ug/l
 RT: 5.17 min Scan# 751
 Delta R.T. -0.00 min
 Lab File: VX003557.D
 Acq: 21 Jul 2018 16:14

Tgt Ion: 42 Resp: 934
 Ion Ratio Lower Upper
 42 100
 72 7.6 32.0 48.0#
 71 0.0 30.1 45.1#





#31

Cyclohexane

Concen: 0.91 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.10 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-071318DL

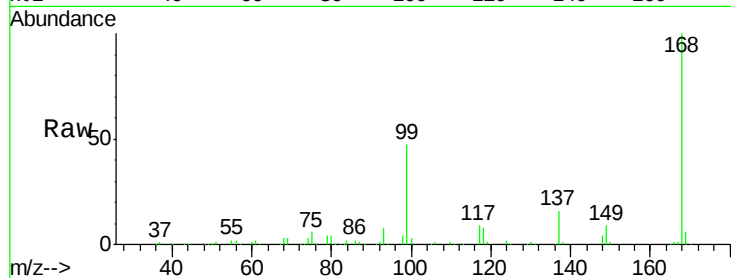
Tot Ion: 56 Resp: 4587

Ion Ratio Lower Upper

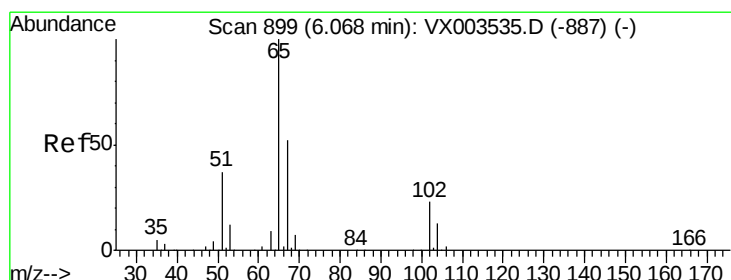
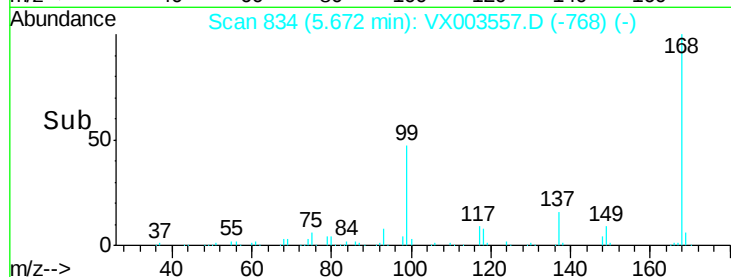
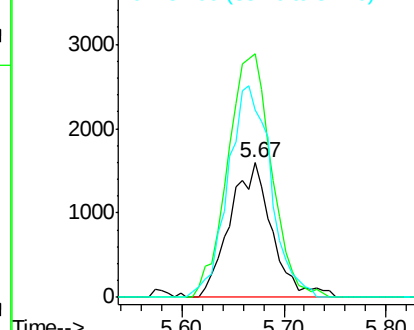
56 100

69 180.9 23.7 35.5#

84 139.2 64.1 96.1#



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: 53.37 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003557.D

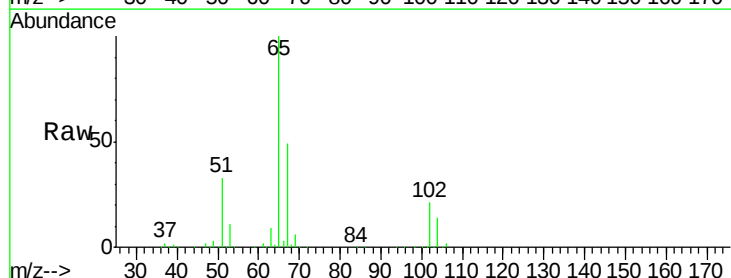
Acq: 21 Jul 2018 16:14

Tgt Ion: 65 Resp: 177577

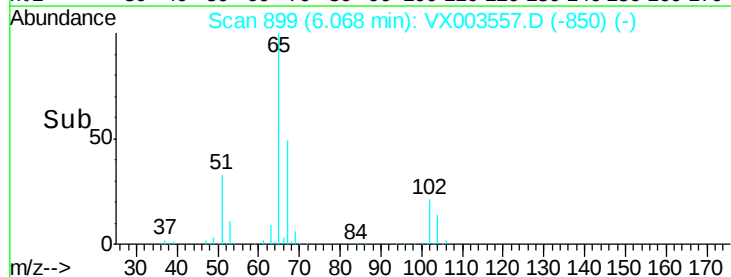
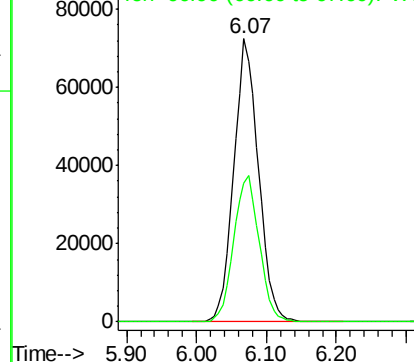
Ion Ratio Lower Upper

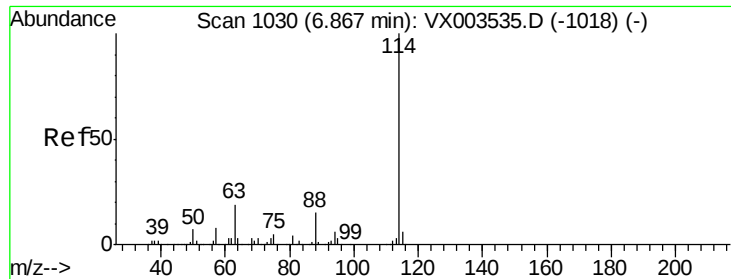
65 100

67 53.3 0.0 102.6



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# 1029

Delta R.T. -0.01 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-071318DL

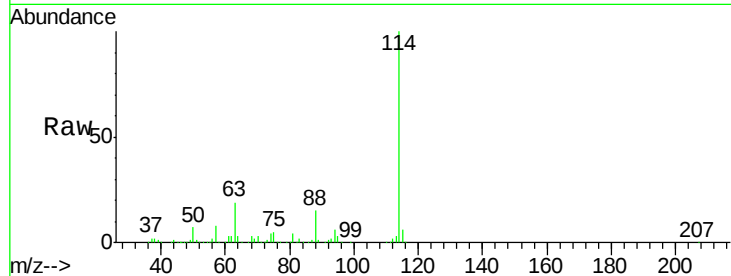
Tot Ion:114 Resp: 426677

Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.4

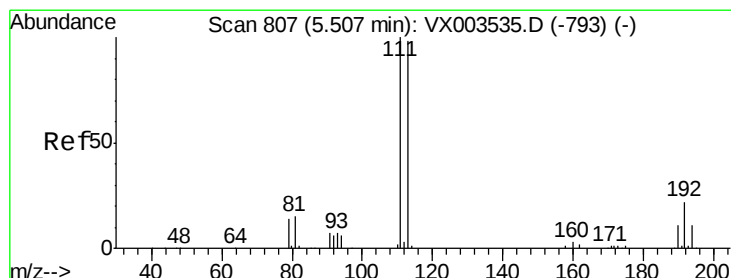
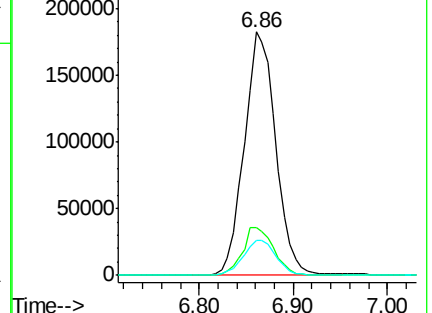
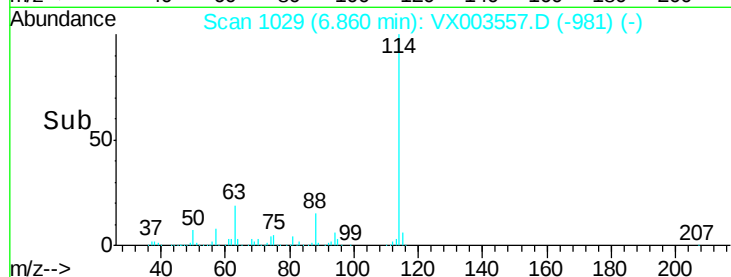
88 14.5 0.0 30.0



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: 48.13 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

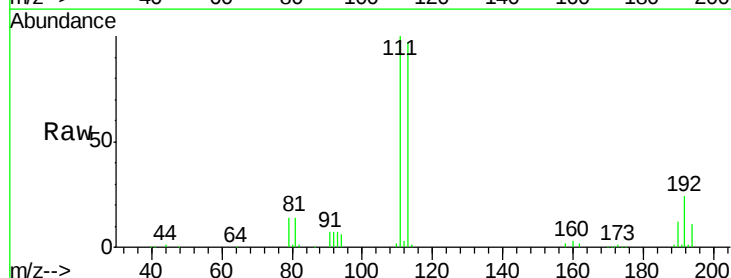
Tgt Ion:113 Resp: 156421

Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.0

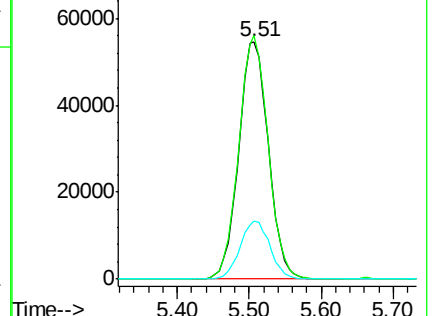
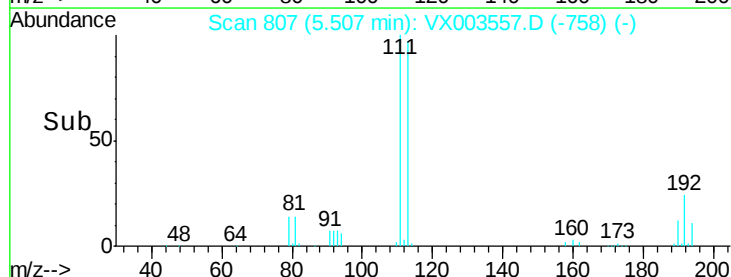
192 24.5 19.1 28.7

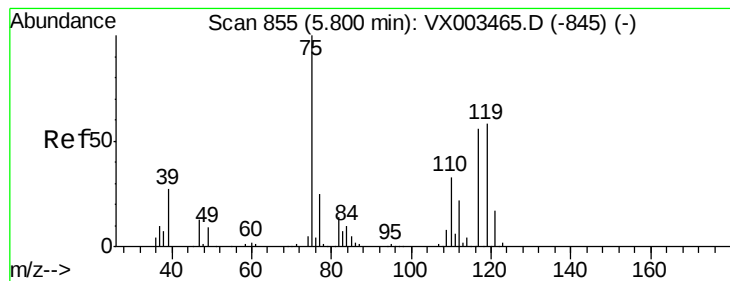


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.84 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-071318DL

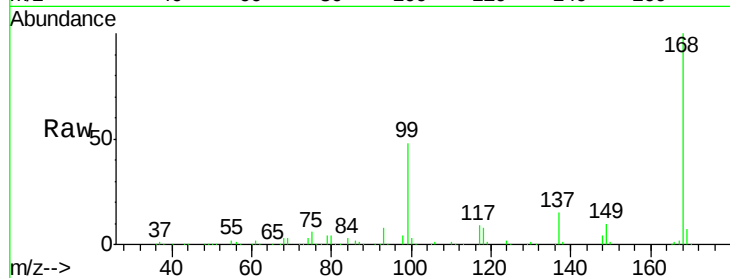
Tot Ion: 75 Resp: 17670

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.4#

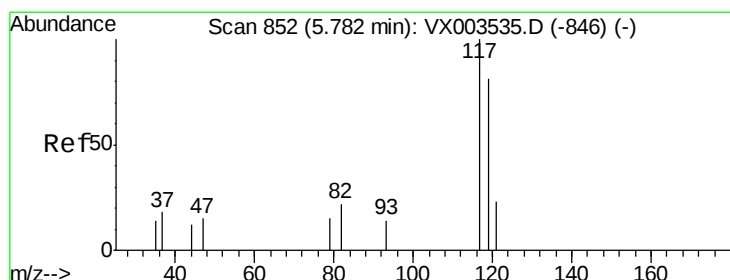
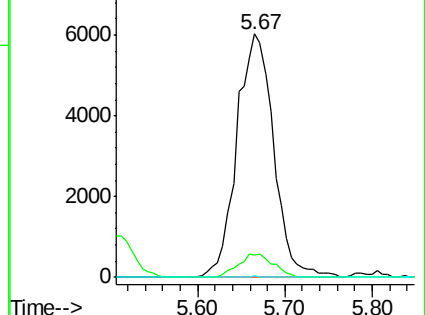
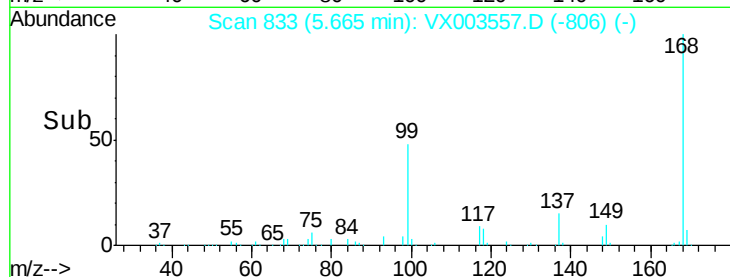
77 0.1 24.3 36.5#



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: 5.36 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

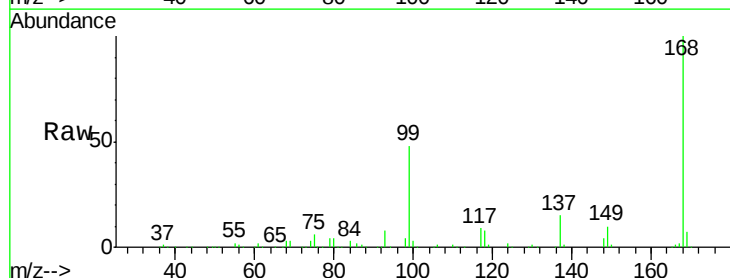
Tgt Ion: 117 Resp: 24223

Ion Ratio Lower Upper

117 100

119 6.1 77.4 116.0#

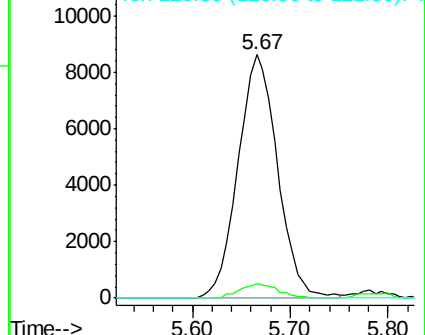
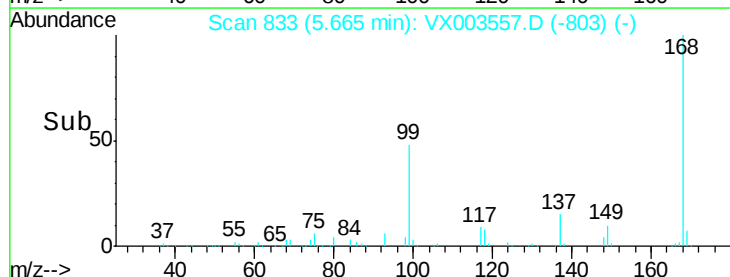
121 0.0 24.4 36.6#

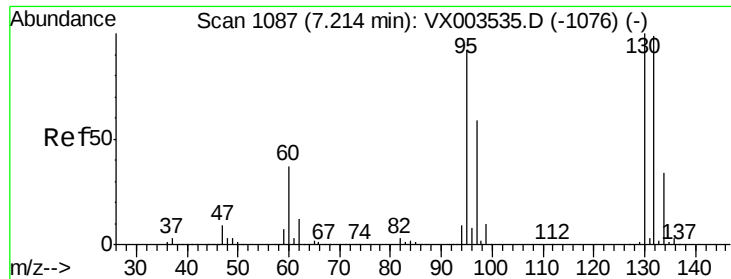


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

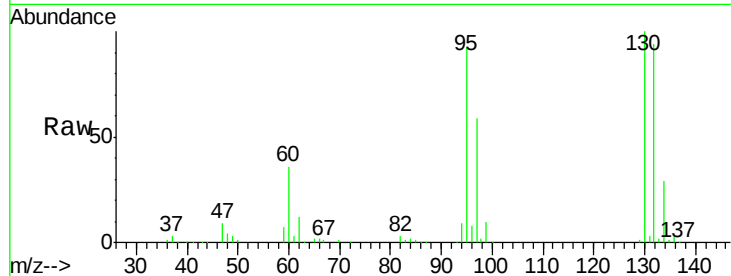




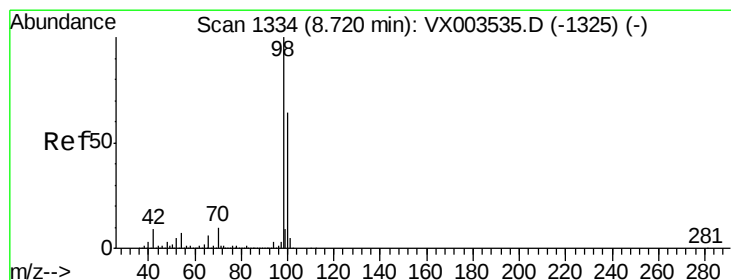
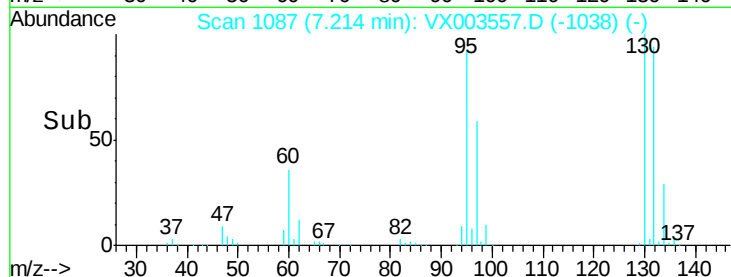
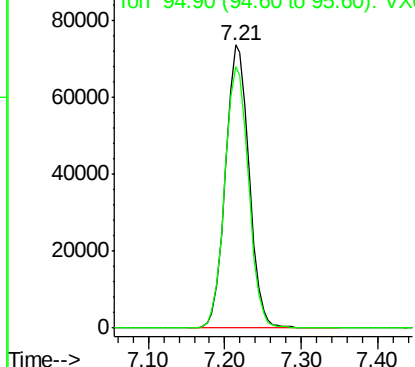
#44
 Trichloroethene
 Concen: 37.80 ug/l
 RT: 7.21 min Scan# 1087
 Delta R.T. -0.00 min
 Lab File: VX003557.D
 Acq: 21 Jul 2018 16:14

Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-071318DL

Tot Ion:130 Resp: 156782
 Ion Ratio Lower Upper
 130 100
 95 92.3 0.0 185.4

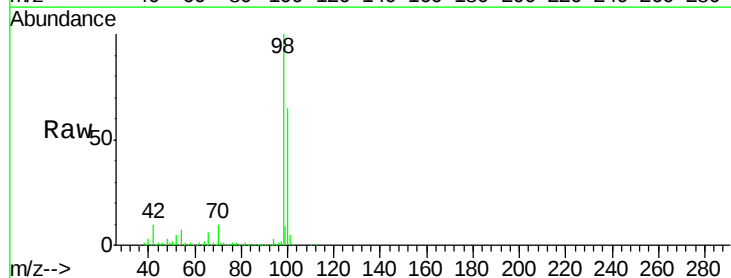


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

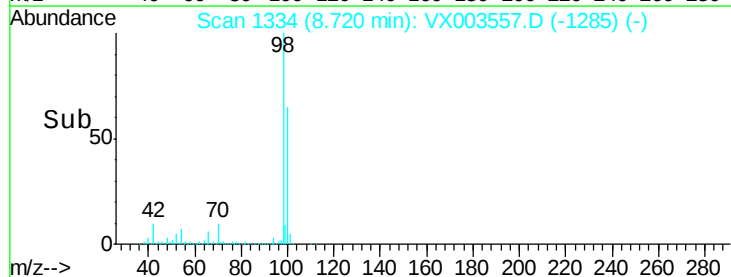
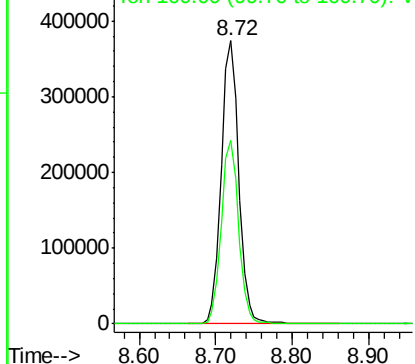


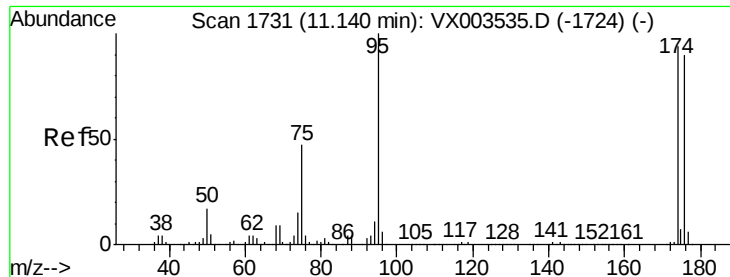
#50
 Toluene-d8
 Concen: 48.73 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX003557.D
 Acq: 21 Jul 2018 16:14

Tgt Ion: 98 Resp: 595218
 Ion Ratio Lower Upper
 98 100
 100 64.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): V

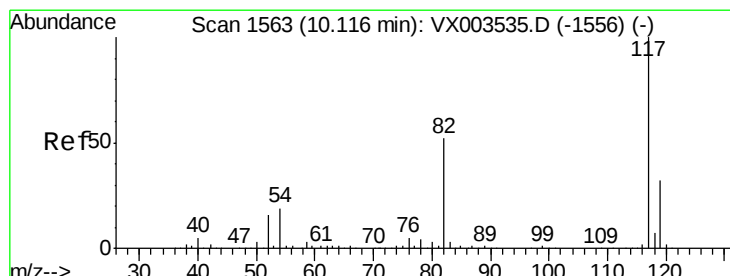
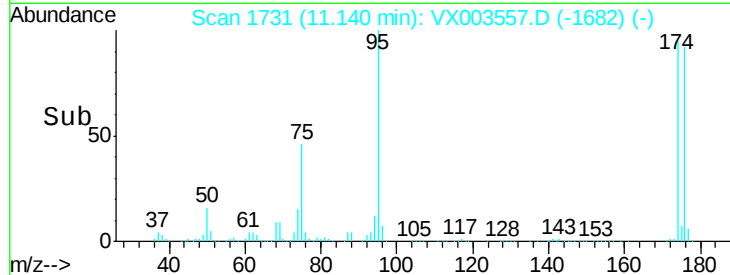
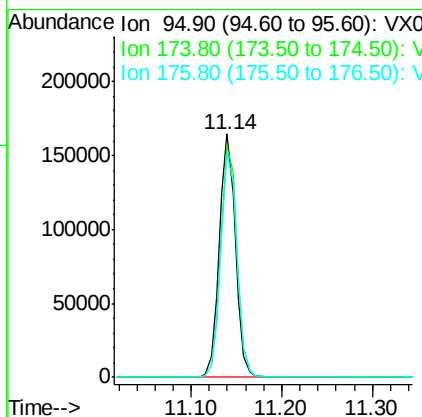
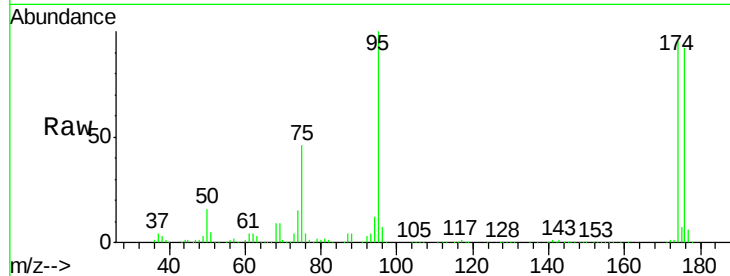




#62
4-Bromofluorobenzene
Concen: 45.82 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003557.D
Acq: 21 Jul 2018 16:14

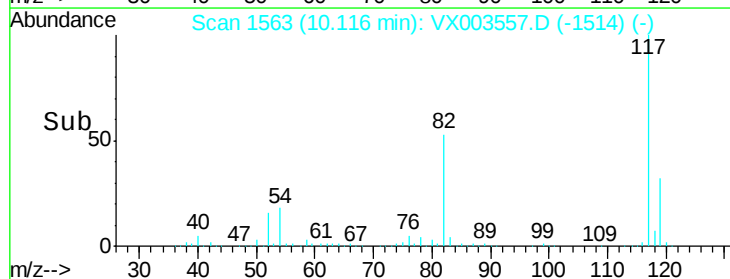
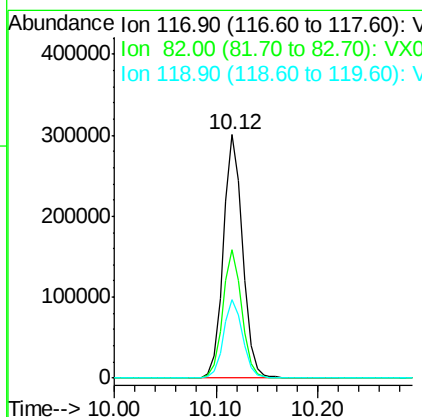
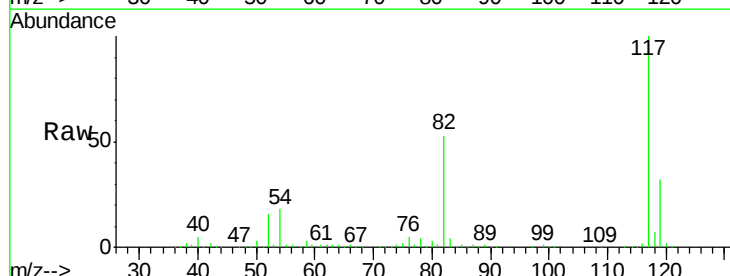
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-071318DL

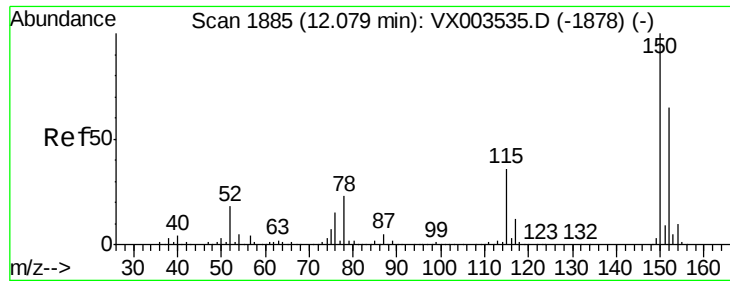
Tot Ion: 95 Resp: 204241
Ion Ratio Lower Upper
95 100
174 97.3 0.0 187.4
176 93.4 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003557.D
Acq: 21 Jul 2018 16:14

Tgt Ion: 117 Resp: 395508
Ion Ratio Lower Upper
117 100
82 52.6 45.0 67.4
119 32.5 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX003557.D

Acq: 21 Jul 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-071318DL

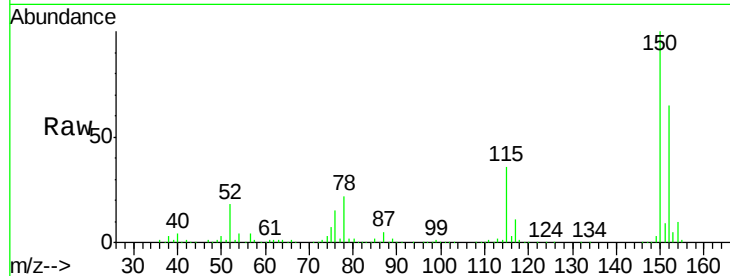
Tot Ion:152 Resp: 218527

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

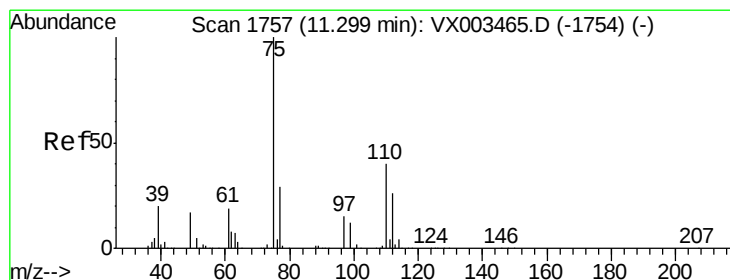
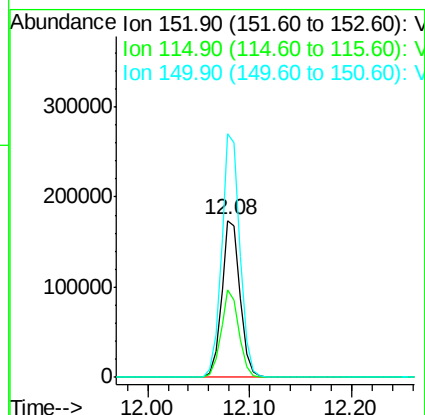
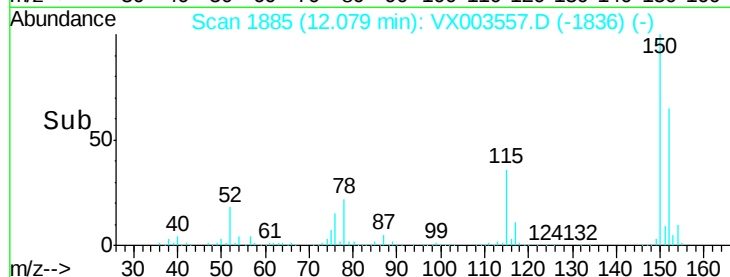
150 155.5 0.0 347.2



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: 24.04 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003557.D

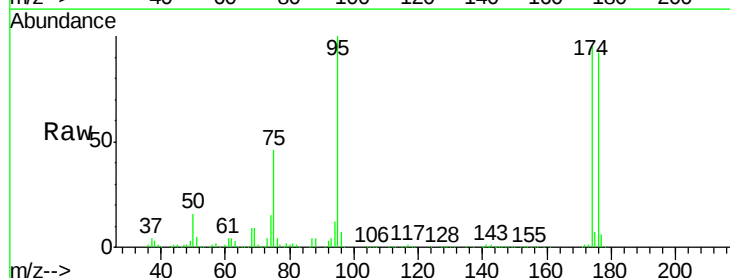
Acq: 21 Jul 2018 16:14

Tgt Ion: 75 Resp: 94382

Ion Ratio Lower Upper

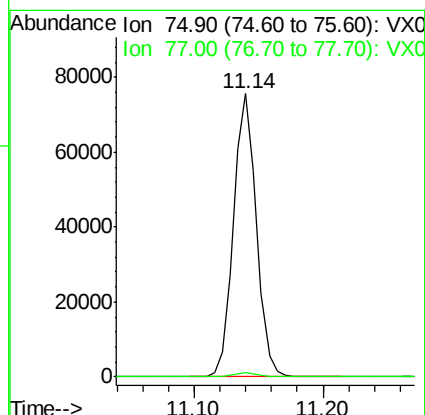
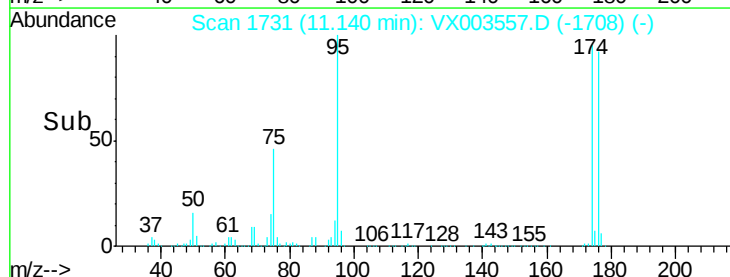
75 100

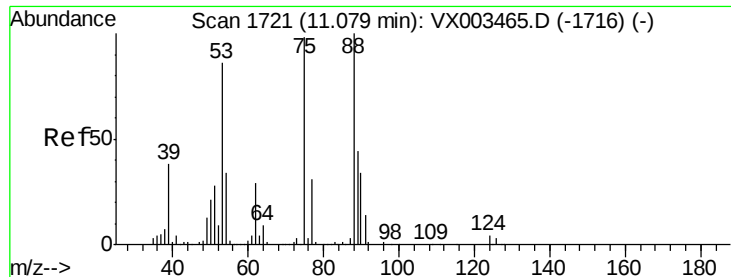
77 1.5 22.8 68.3#



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: 67.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003557.D

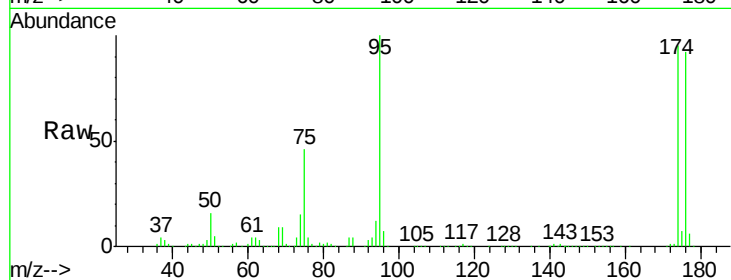
Acq: 21 Jul 2018 16:14

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-071318DL



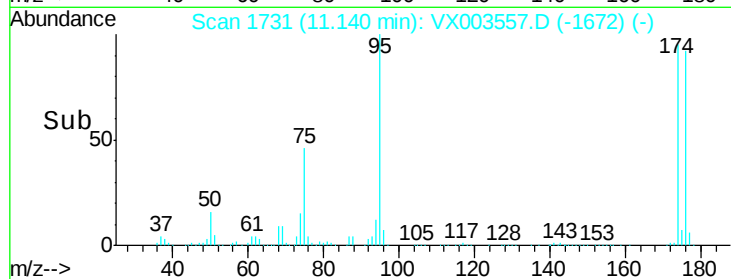
Tot Ion: 75 Resp: 94382

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



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

