

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072118\
 Data File : VX003555.D
 Acq On : 21 Jul 2018 15:21
 Operator : JC/SP
 Sample : J4014-02DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D1-071218DL

Quant Time: Jul 23 01:38:26 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	278643	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	429059	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	384587	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	213169	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	176878	53.63	ug/l	0.00
Spiked Amount			Recovery	=	107.26%	
35) Dibromofluoromethane	5.51	113	153066	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
50) Toluene-d8	8.72	98	579742	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
62) 4-Bromofluorobenzene	11.14	95	197476	44.05	ug/l	0.00
Spiked Amount			Recovery	=	88.10%	

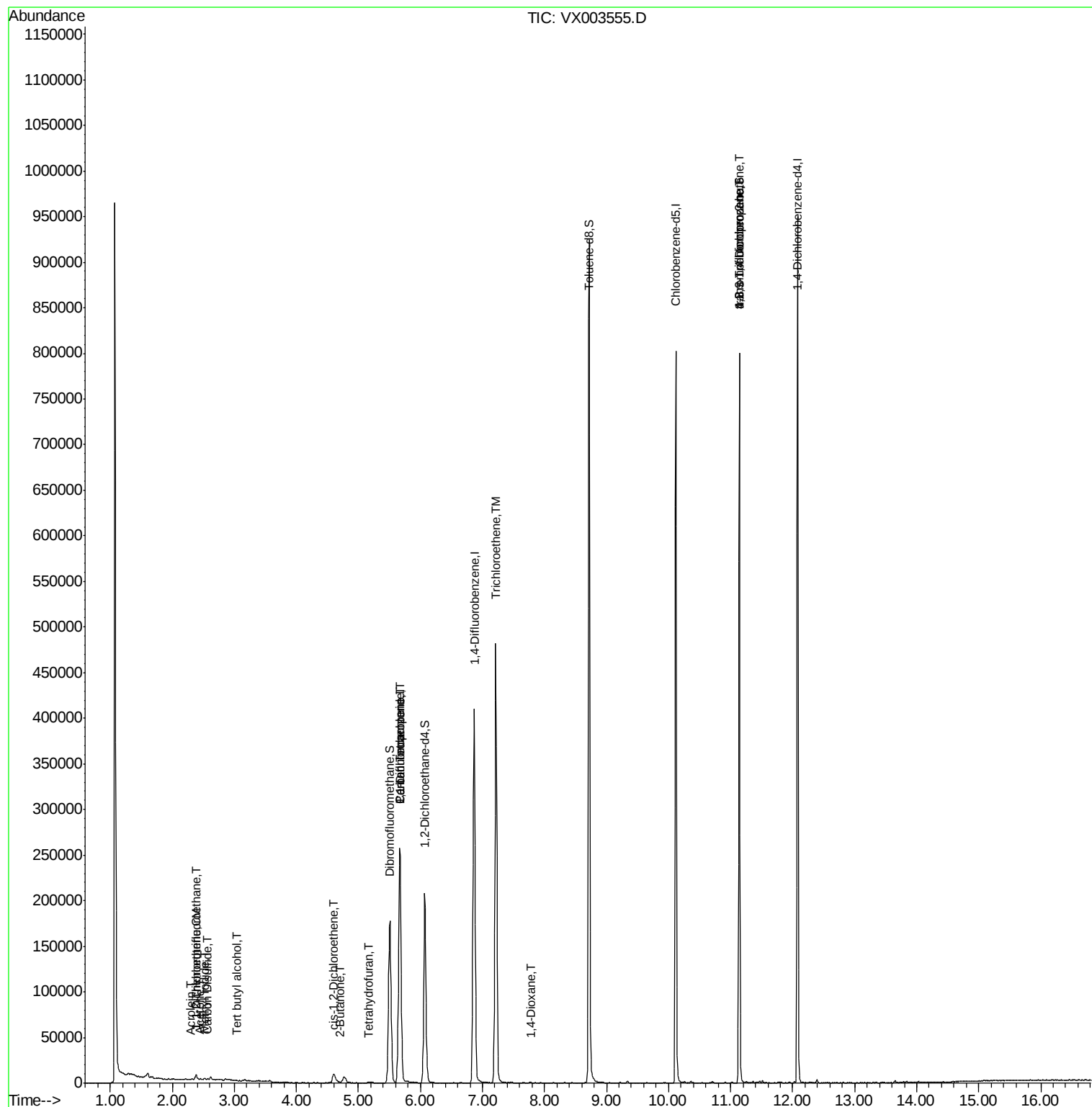
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	168	Below Cal	#	43
3) Chloromethane	1.33	50	662	Below Cal		92
5) Bromomethane	1.65	94	1030	Below Cal	#	65
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1794	0.58	ug/l	99
10) Methyl Iodide	2.52	142	2085	0.56	ug/l	94
11) Tert butyl alcohol	3.03	59	393	0.60	ug/l	# 73
12) 1,1-Dichloroethene	2.38	96	622	0.22	ug/l	# 56
13) Acrolein	2.29	56	171	0.58	ug/l	# 14
16) Acetone	2.45	43	933	0.75	ug/l	93
17) Carbon Disulfide	2.57	76	1691	0.22	ug/l	# 94
20) Methylene Chloride	2.86	84	726	Below Cal	#	86
25) 2-Butanone	4.71	43	737	0.35	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	1559	0.44	ug/l	# 1
29) Tetrahydrofuran	5.17	42	849	0.61	ug/l	# 71
36) 1,1-Dichloropropene	5.67	75	16605	3.58	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	23550	5.18	ug/l	# 17
44) Trichloroethene	7.21	130	204776	49.09	ug/l	99
49) 1,4-Dioxane	7.77	88	161	2.02	ug/l	# 42
76) 1,2,3-Trichloropropane	11.14	75	91338	23.85	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	91338	66.90	ug/l	# 6

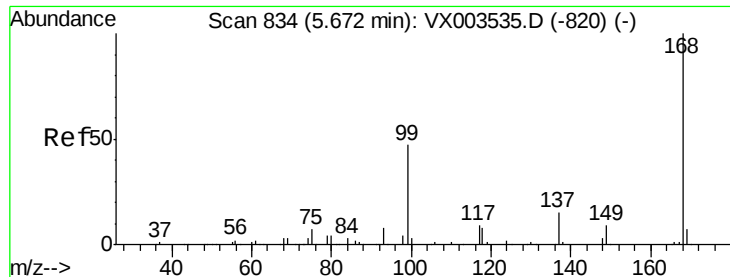
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 19 17:09:44 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Instrument :

MSVOA_X

ClientSampleId :

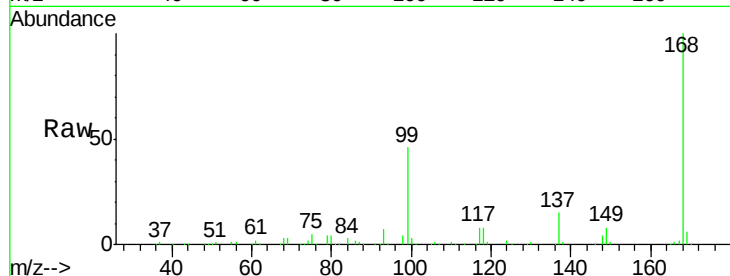
RE122D1-071218DL

Tot Ion:168 Resp: 278643

Ion Ratio Lower Upper

168 100

99 45.8 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

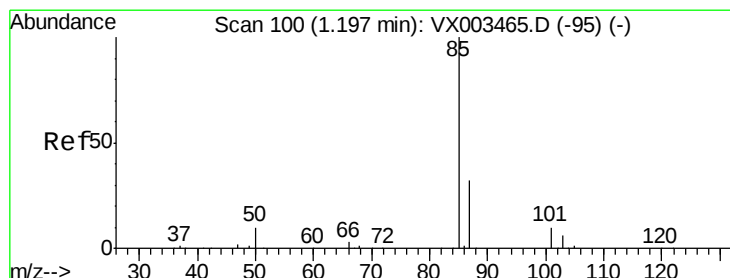
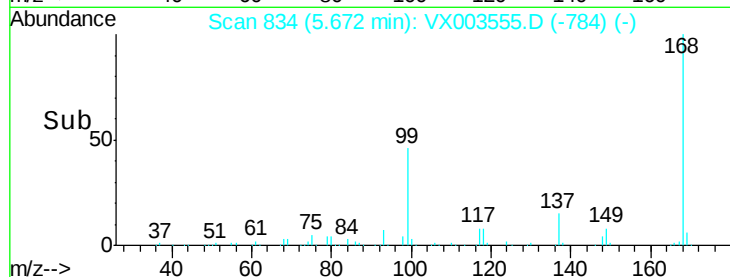
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX003555.D

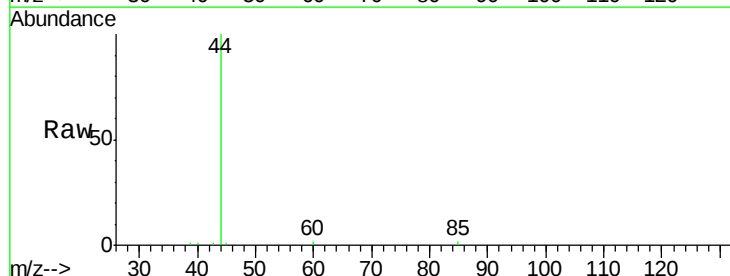
Acq: 21 Jul 2018 15:21

Tgt Ion: 85 Resp: 168

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

1.19

200

150

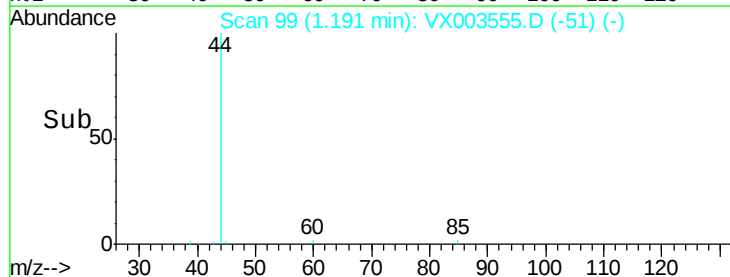
100

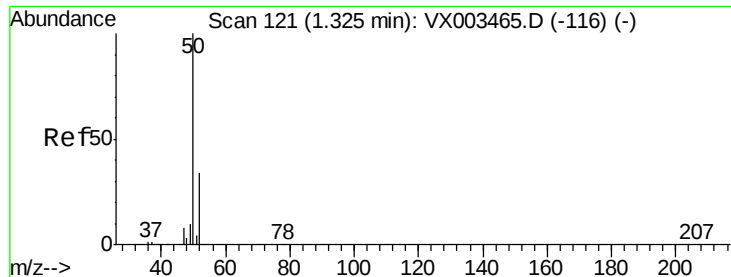
50

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: VX003555.D

Acq: 21 Jul 2018 15:21

Instrument :

MSVOA_X

ClientSampleId :

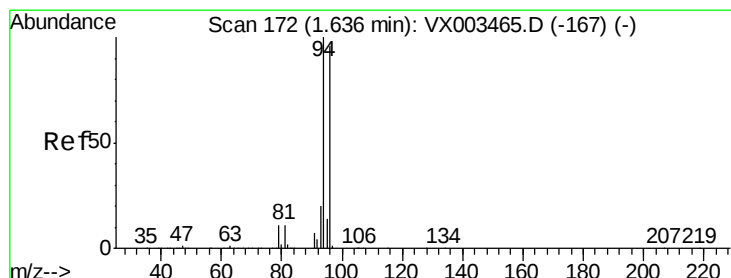
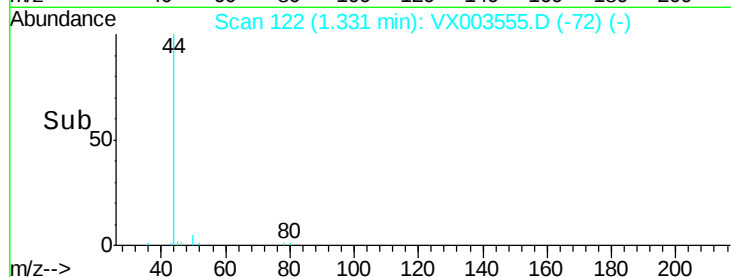
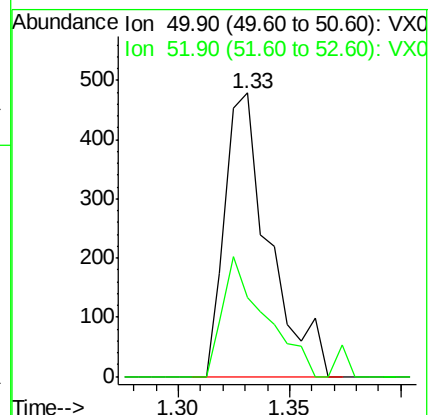
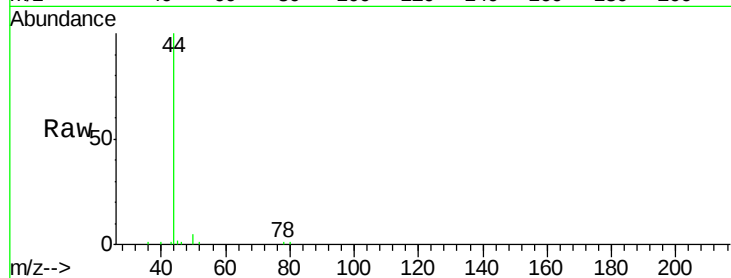
RE122D1-071218DL

Tot Ion: 50 Resp: 662

Ion Ratio Lower Upper

50 100

52 27.6 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003555.D

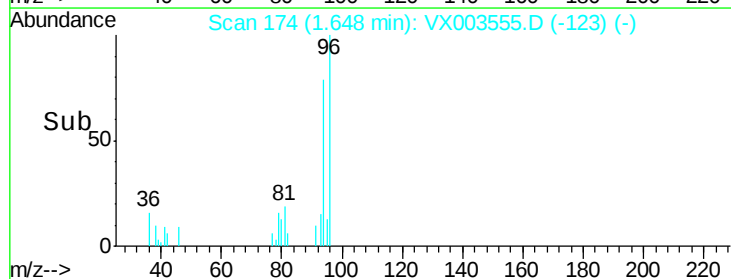
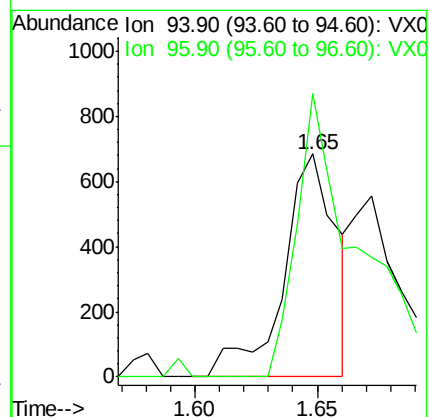
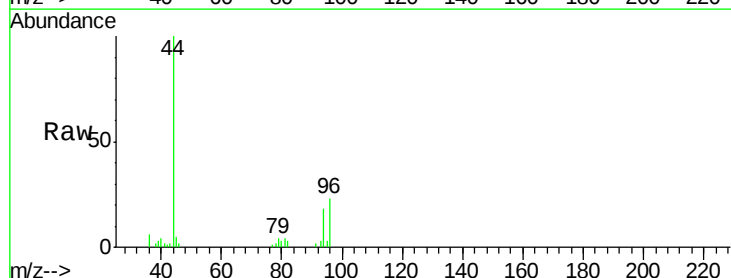
Acq: 21 Jul 2018 15:21

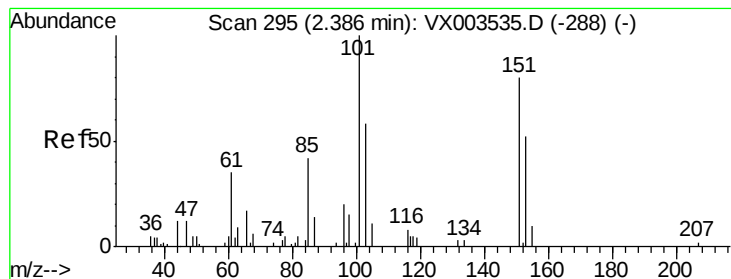
Tgt Ion: 94 Resp: 1030

Ion Ratio Lower Upper

94 100

96 126.9 74.9 112.3#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.58 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-071218DL

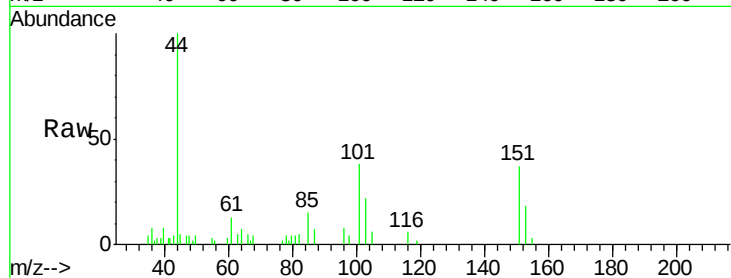
Tot Ion:101 Resp: 1794

Ion Ratio Lower Upper

101 100

85 45.1 36.0 54.0

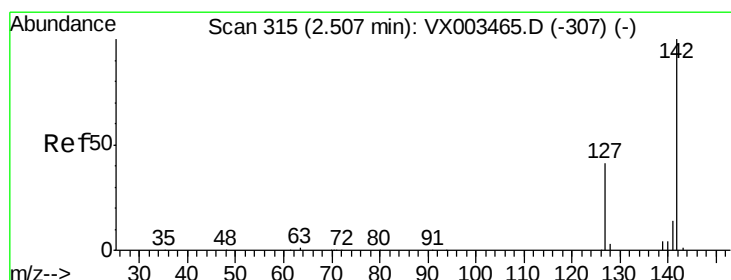
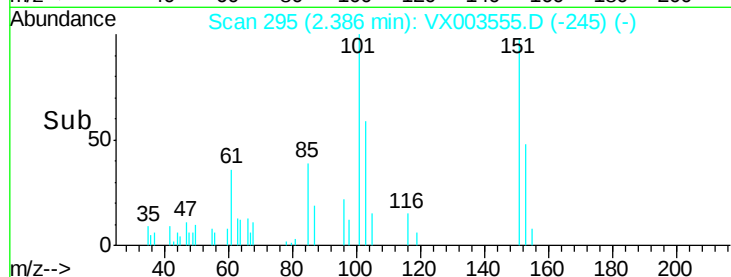
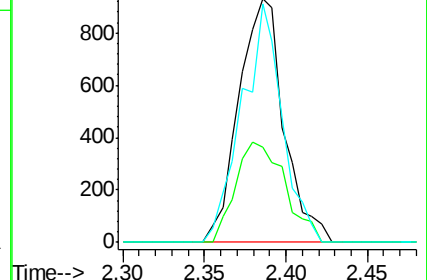
151 87.8 70.9 106.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.56 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

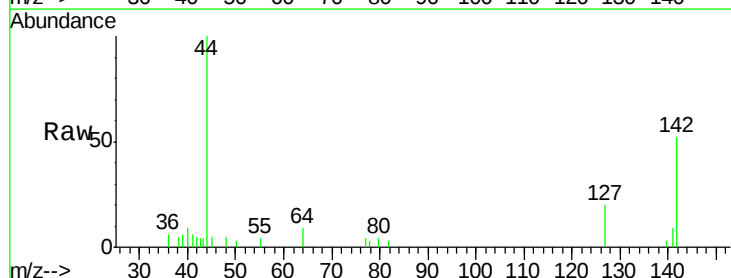
Tgt Ion:142 Resp: 2085

Ion Ratio Lower Upper

142 100

127 40.9 36.6 55.0

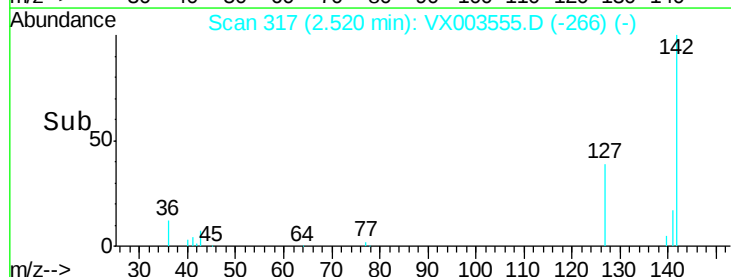
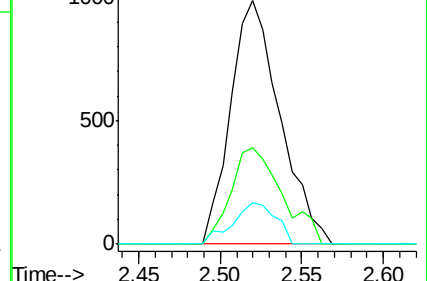
141 14.7 11.3 16.9

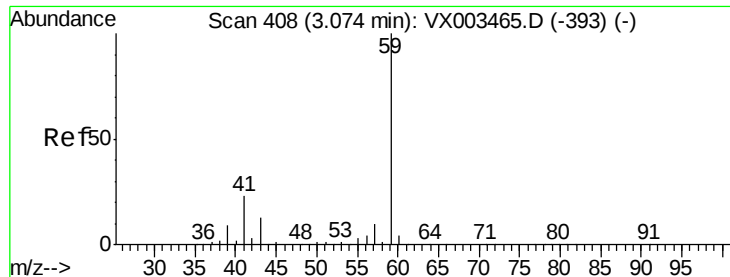


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



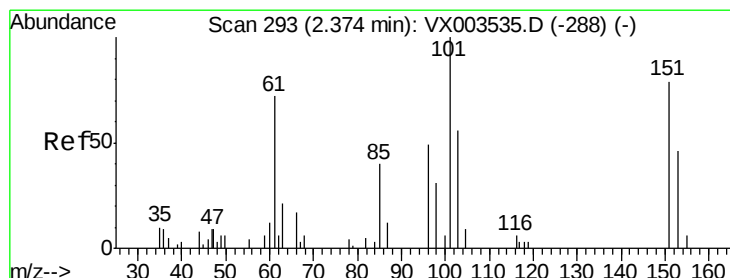
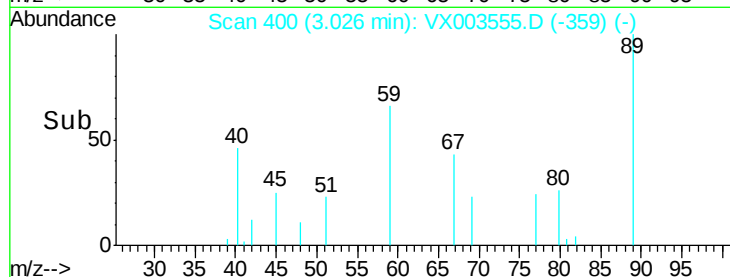
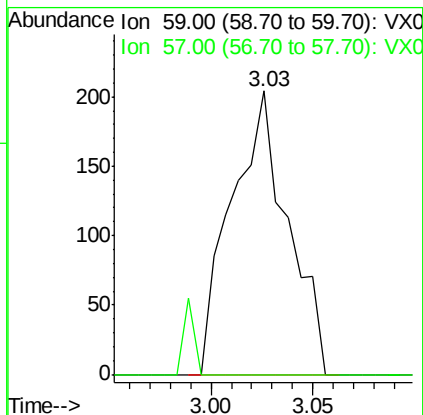
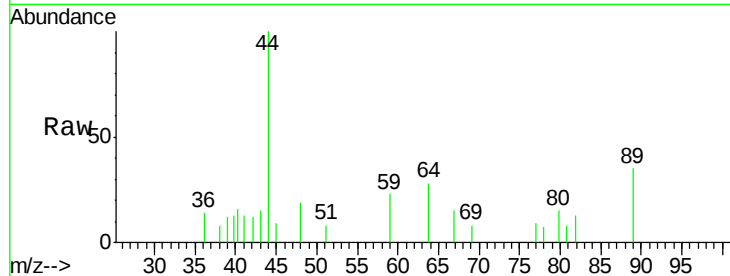


#11

Tert butyl alcohol
Concen: 0.60 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX003555.D
Acq: 21 Jul 2018 15:21

Instrument :
MSVOA_X
ClientSampleId :
RE122D1-071218DL

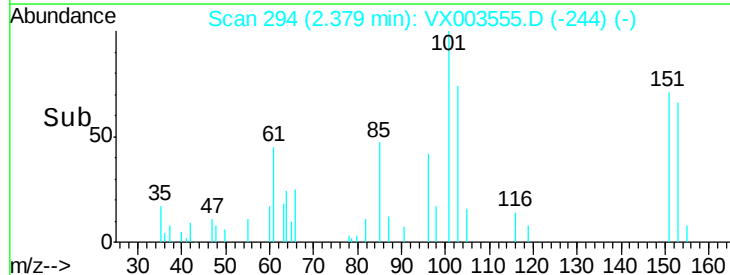
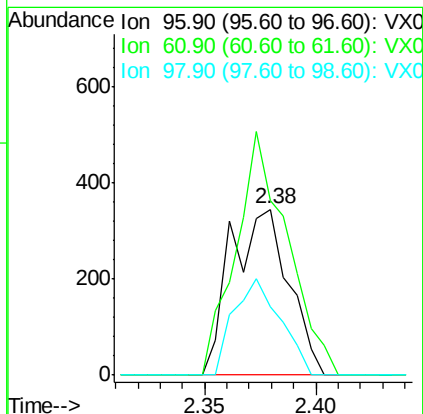
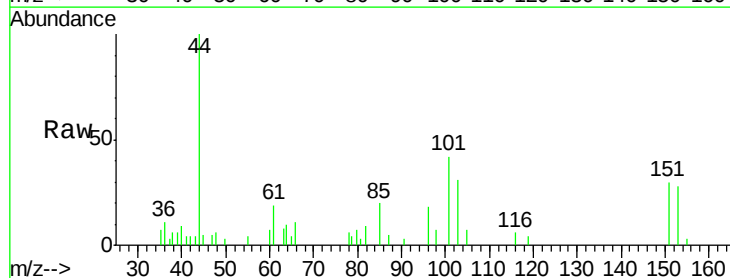
Tot Ion: 59 Resp: 393
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

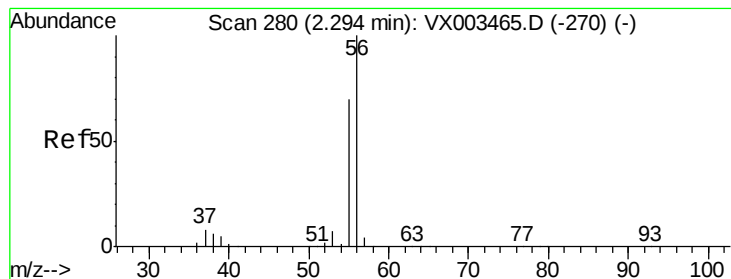


#12

1,1-Dichloroethene
Concen: 0.22 ug/l
RT: 2.38 min Scan# 294
Delta R.T. 0.01 min
Lab File: VX003555.D
Acq: 21 Jul 2018 15:21

Tgt Ion: 96 Resp: 622
Ion Ratio Lower Upper
96 100
61 105.2 137.9 206.9#
98 40.9 51.6 77.4#





#13

Acrolein

Concen: 0.58 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Instrument :

MSVOA_X

ClientSampleId :

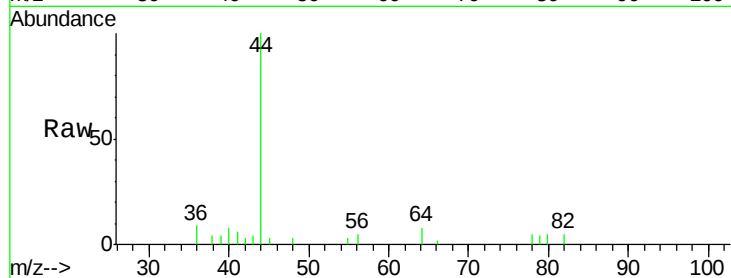
RE122D1-071218DL

Tot Ion: 56 Resp: 171

Ion Ratio Lower Upper

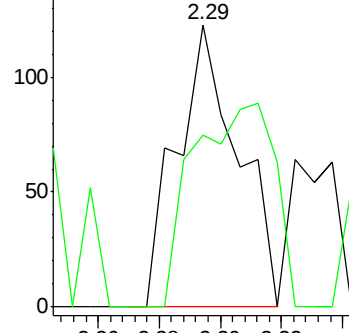
56 100

55 0.0 57.0 85.4#

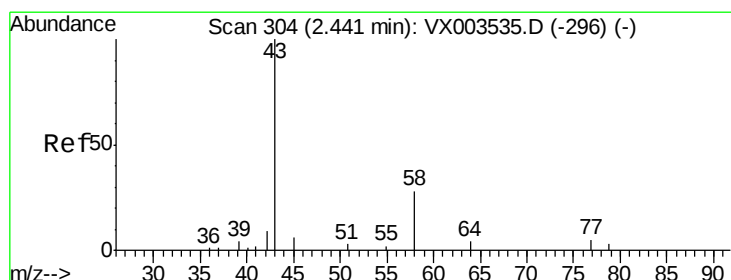
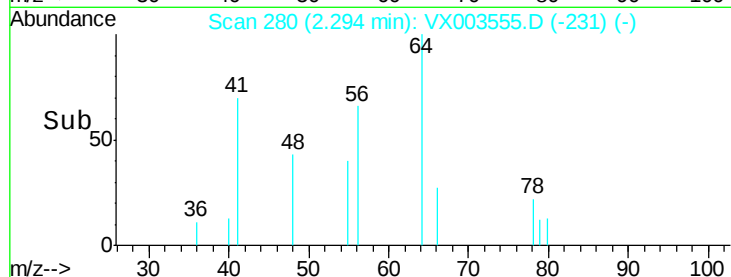


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 0.75 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003555.D

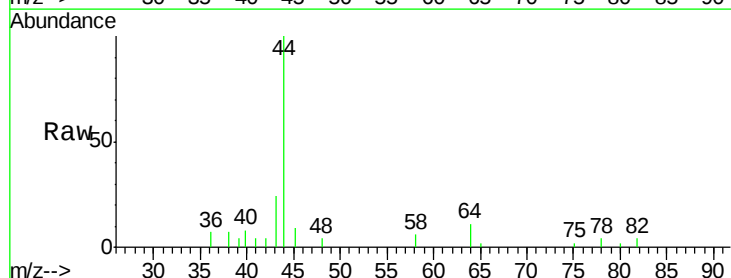
Acq: 21 Jul 2018 15:21

Tgt Ion: 43 Resp: 933

Ion Ratio Lower Upper

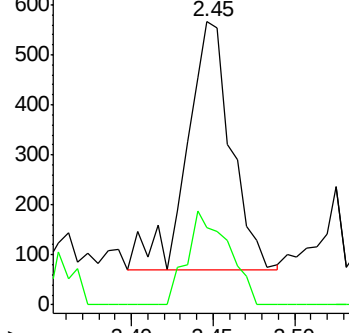
43 100

58 31.3 22.1 33.1

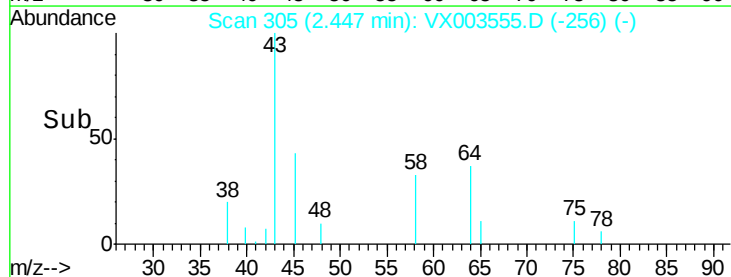


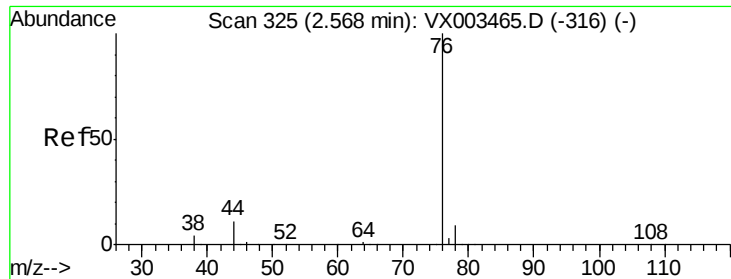
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.22 ua/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Instrument :

MSVOA_X

ClientSampleId :

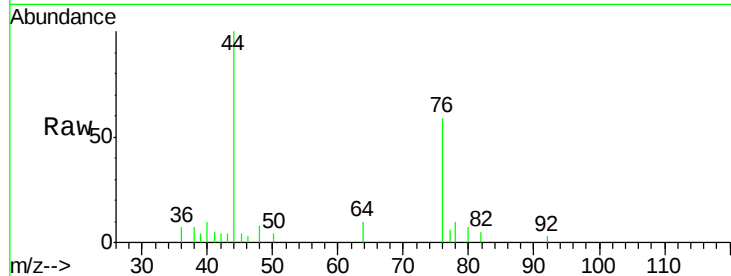
RE122D1-071218DL

Tot Ion: 76 Resp: 1691

Ion Ratio Lower Upper

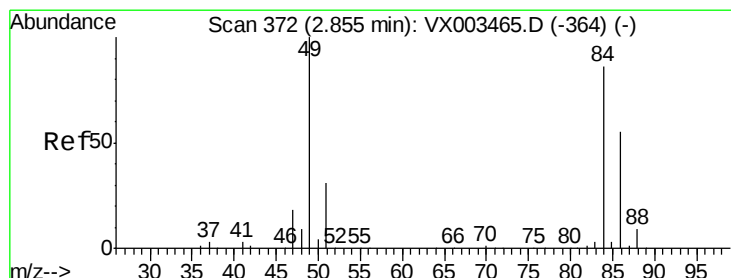
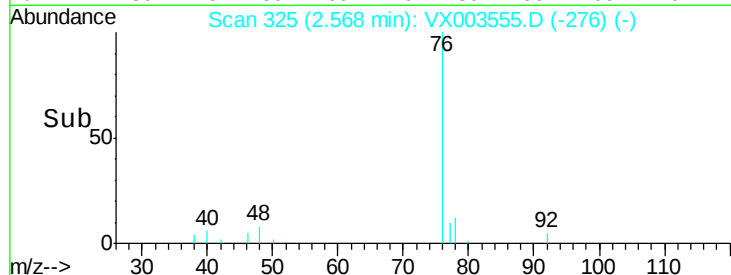
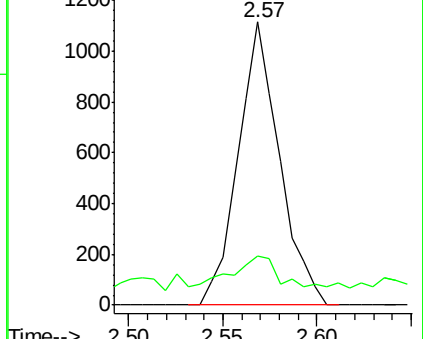
76 100

78 10.6 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Tgt Ion: 84 Resp: 726

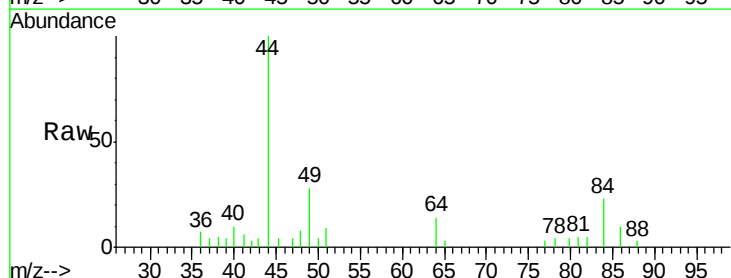
Ion Ratio Lower Upper

84 100

49 121.5 107.8 161.6

51 40.2 32.8 49.2

86 44.3 52.5 78.7#

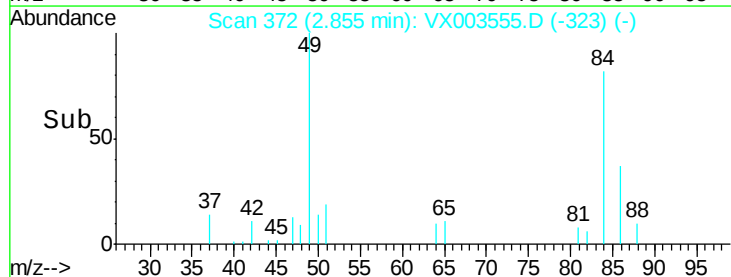
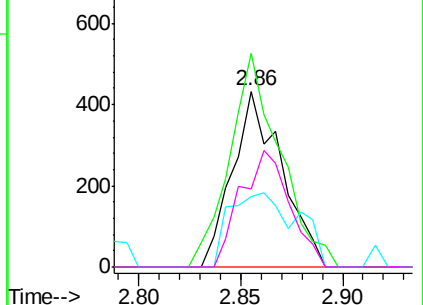


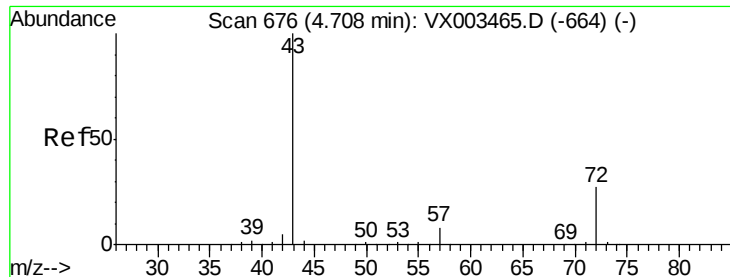
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#25

2-Butanone

Concen: 0.35 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Instrument :

MSVOA_X

ClientSampleId :

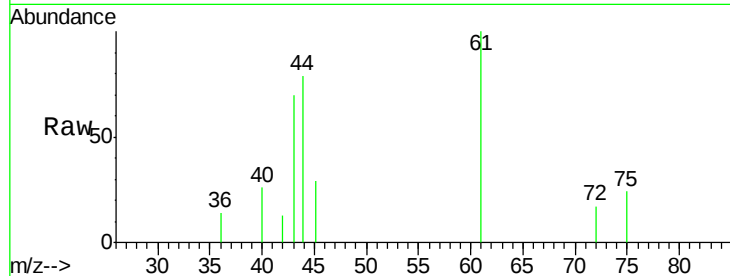
RE122D1-071218DL

Tot Ion: 43 Resp: 737

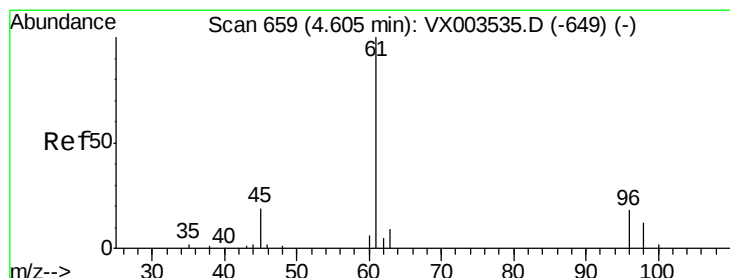
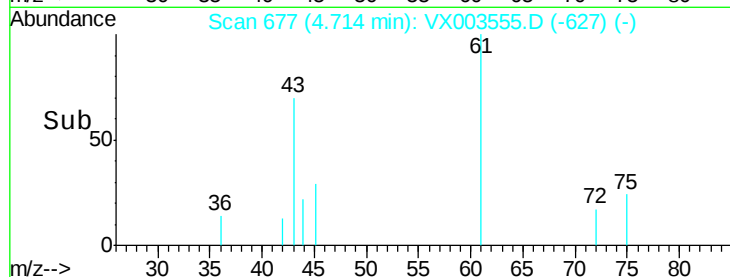
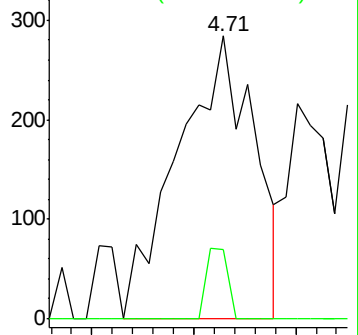
Ion Ratio Lower Upper

43 100

72 24.3 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.44 ug/l

RT: 4.60 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

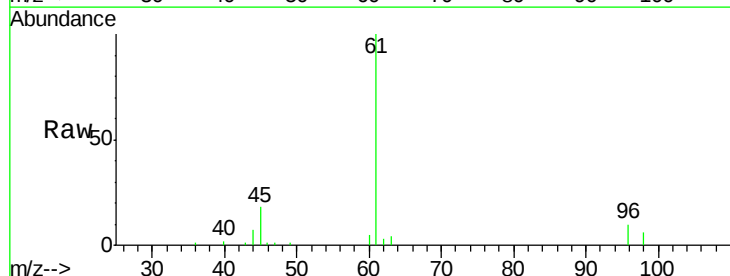
Tgt Ion: 96 Resp: 1559

Ion Ratio Lower Upper

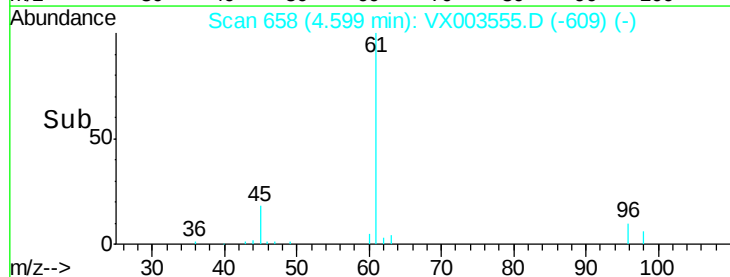
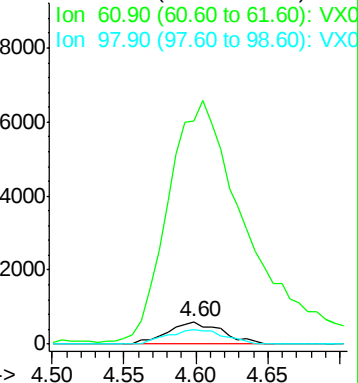
96 100

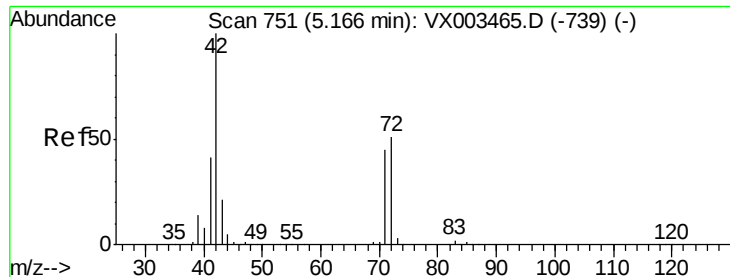
61 1630.9 0.0 330.2#

98 67.6 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

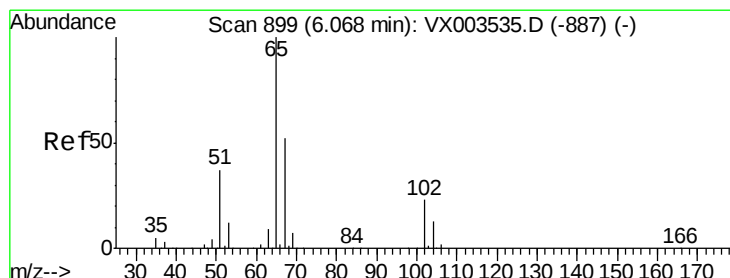
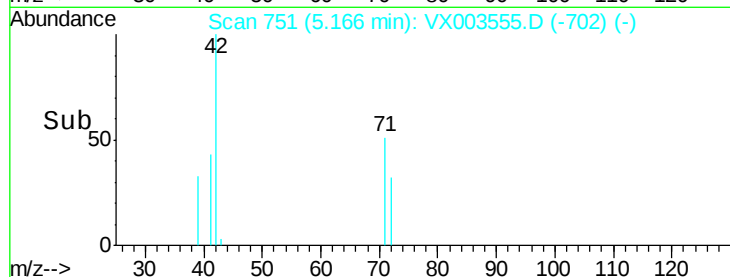
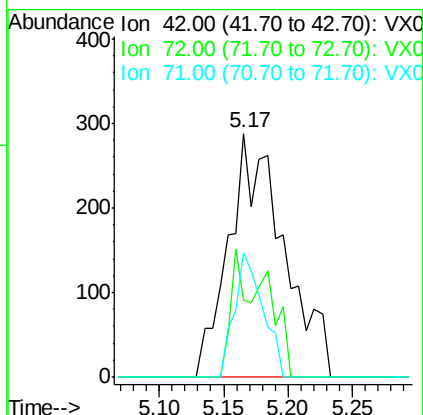
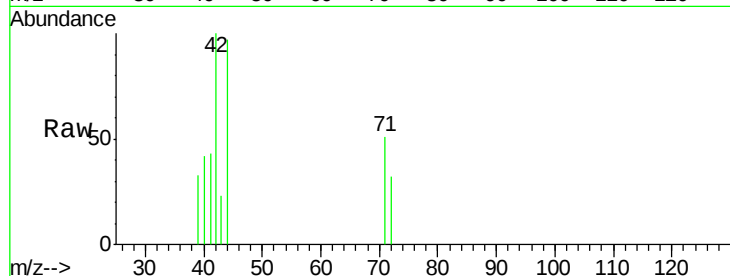




#29
Tetrahydrofuran
Concen: 0.61 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.00 min
Lab File: VX003555.D
Acq: 21 Jul 2018 15:21

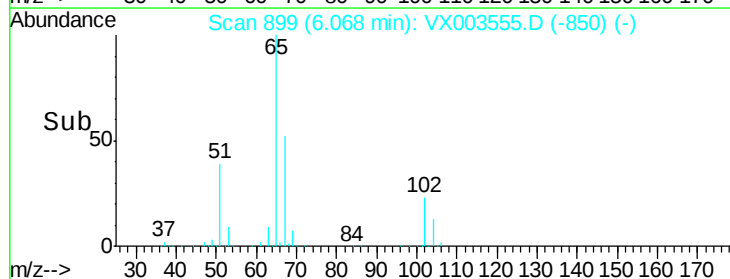
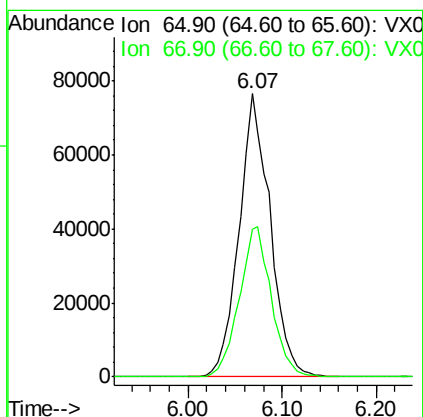
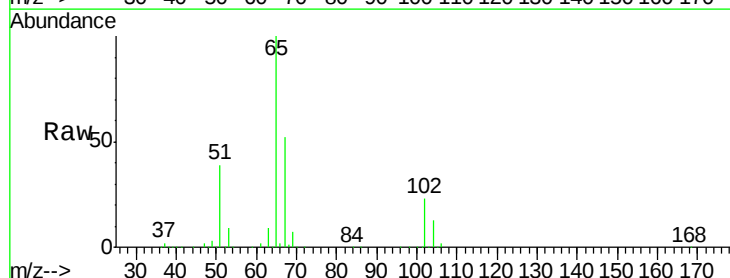
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-071218DL

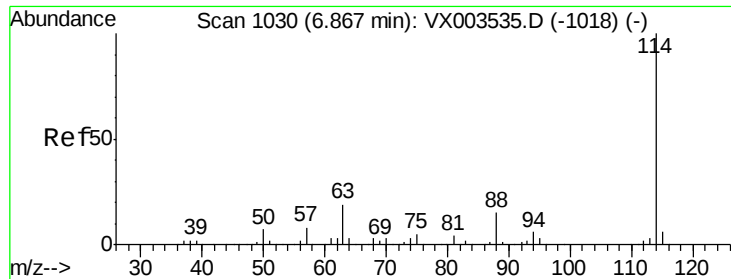
Tot Ion: 42 Resp: 849
Ion Ratio Lower Upper
42 100
72 16.4 32.0 48.0#
71 26.6 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 53.63 ug/l
RT: 6.07 min Scan# 899
Delta R.T. 0.00 min
Lab File: VX003555.D
Acq: 21 Jul 2018 15:21

Tgt Ion: 65 Resp: 176878
Ion Ratio Lower Upper
65 100
67 54.6 0.0 102.6

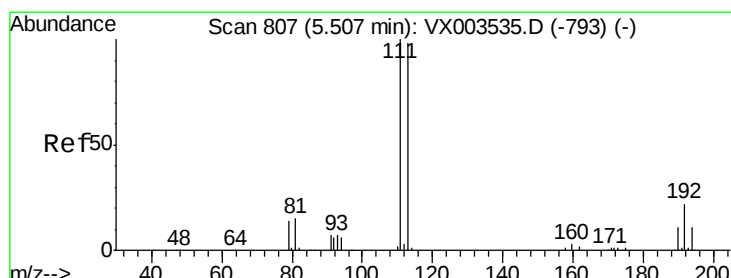
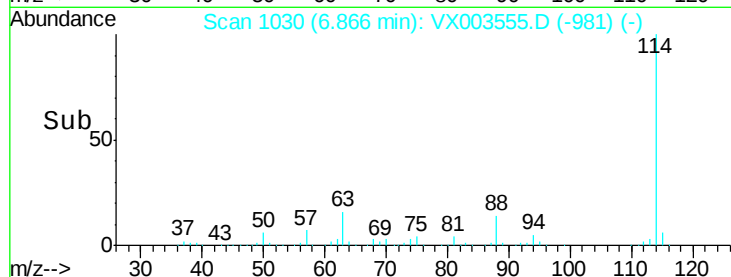
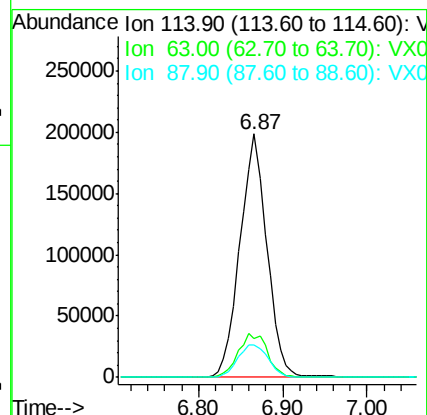
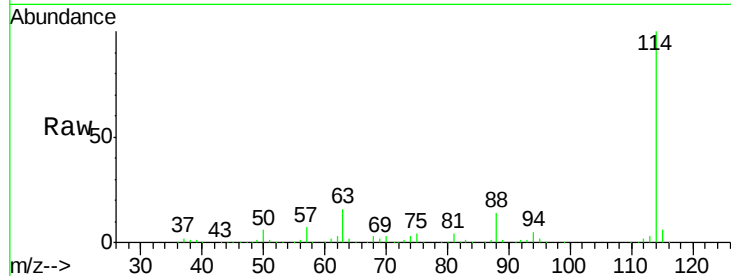




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VX003555.D
Acq: 21 Jul 2018 15:21

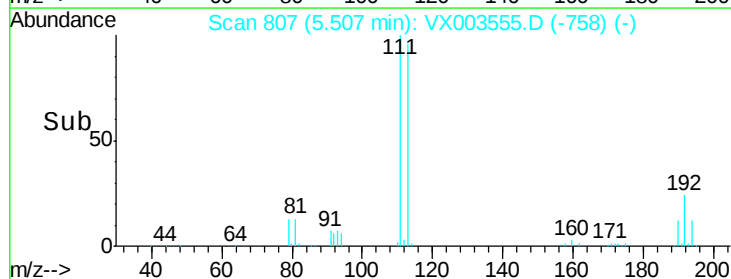
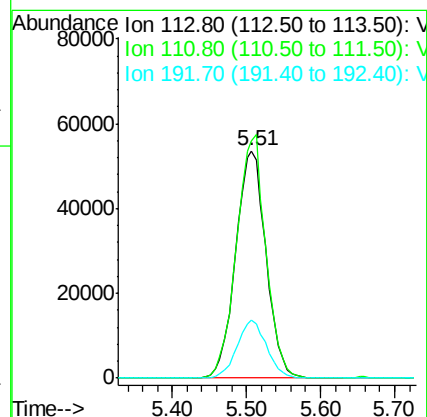
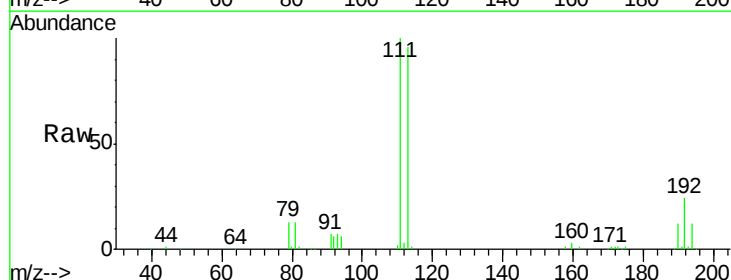
Instrument :
MSVOA_X
ClientSampleId :
RE122D1-071218DL

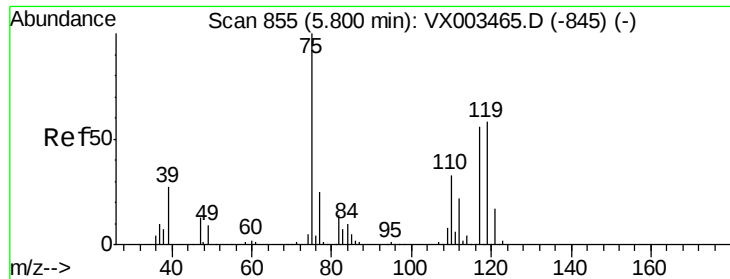
Tot Ion:114 Resp: 429059
Ion Ratio Lower Upper
114 100
63 16.1 0.0 41.4
88 13.6 0.0 30.0



#35
Dibromofluoromethane
Concen: 46.84 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX003555.D
Acq: 21 Jul 2018 15:21

Tgt Ion:113 Resp: 153066
Ion Ratio Lower Upper
113 100
111 103.2 81.4 122.0
192 24.8 19.1 28.7





#36

1,1-Dichloropropene

Concen: 3.58 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-071218DL

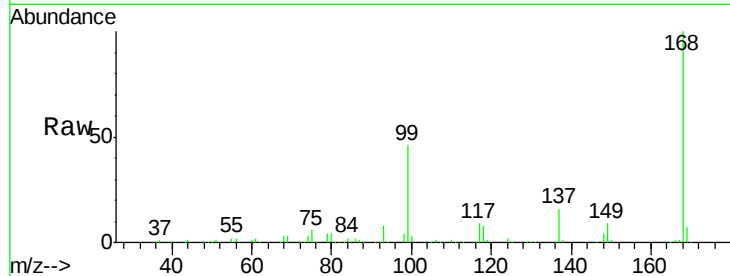
Tot Ion: 75 Resp: 16605

Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.4#

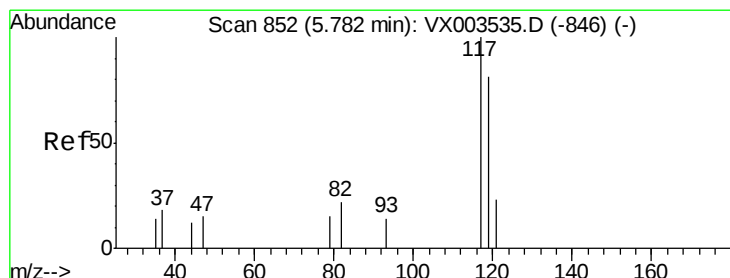
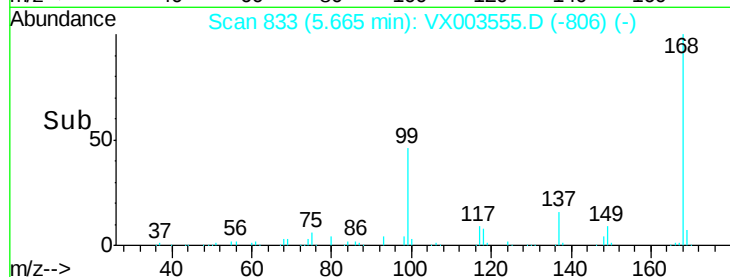
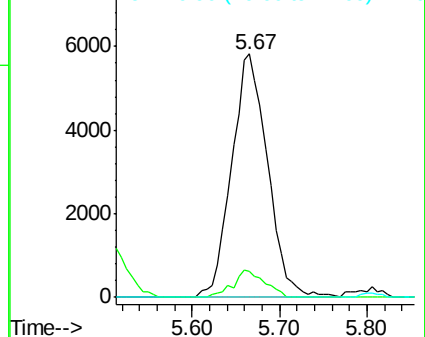
77 0.0 24.3 36.5#



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: 5.18 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

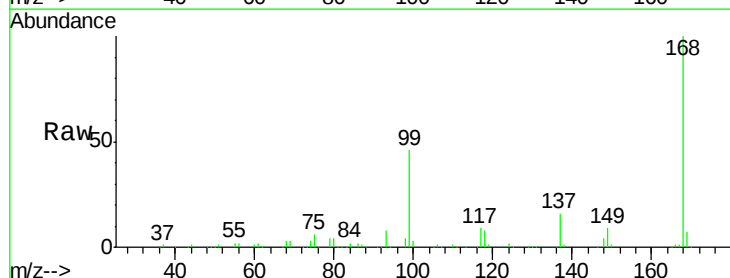
Tgt Ion: 117 Resp: 23550

Ion Ratio Lower Upper

117 100

119 6.5 77.4 116.0#

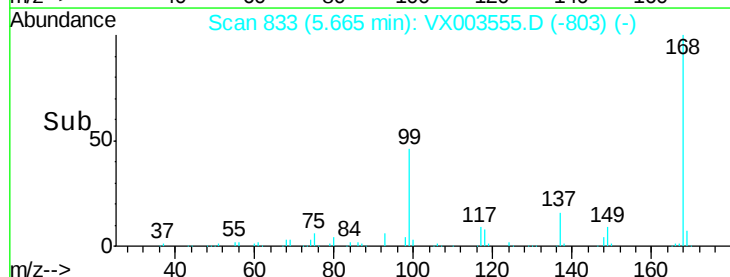
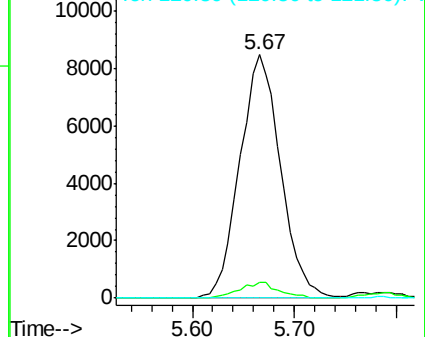
121 0.0 24.4 36.6#

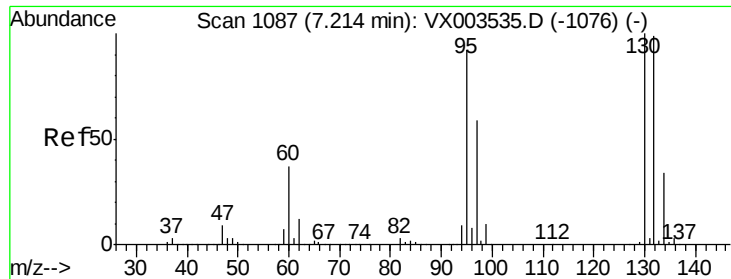


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 49.09 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Instrument :

MSVOA_X

ClientSampleId :

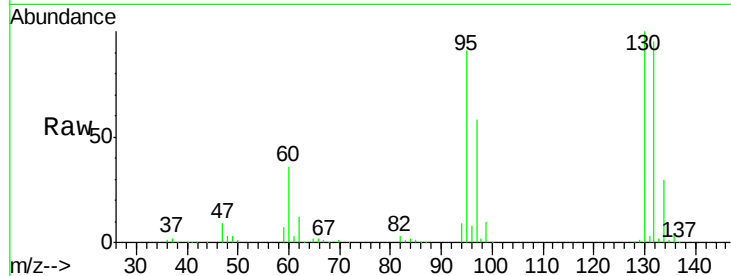
RE122D1-071218DL

Tot Ion:130 Resp: 204776

Ion Ratio Lower Upper

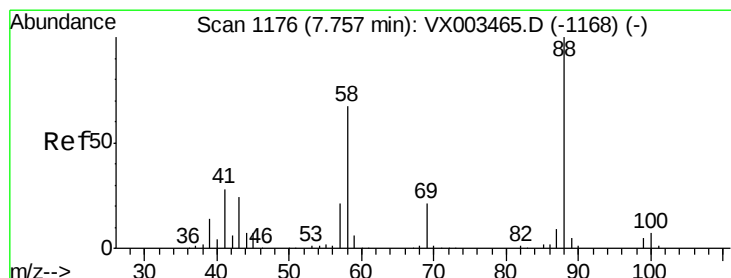
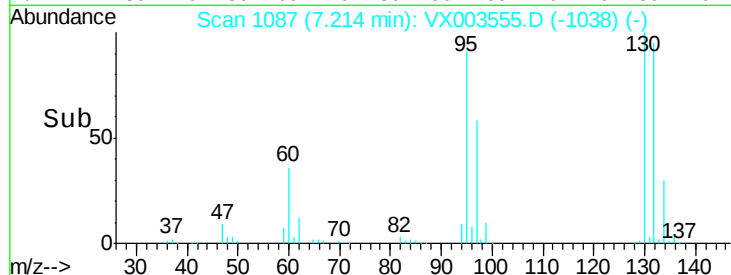
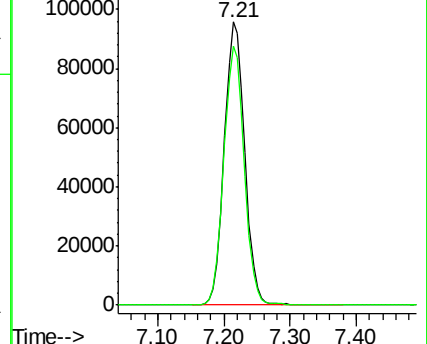
130 100

95 91.4 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 2.02 ug/l

RT: 7.77 min Scan# 1178

Delta R.T. 0.01 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

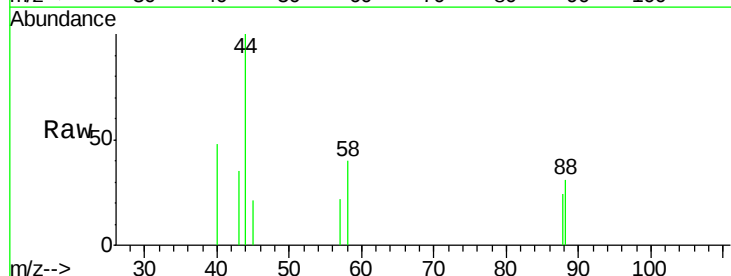
Tgt Ion: 88 Resp: 161

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

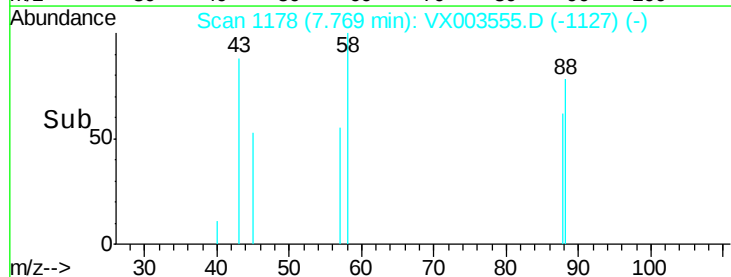
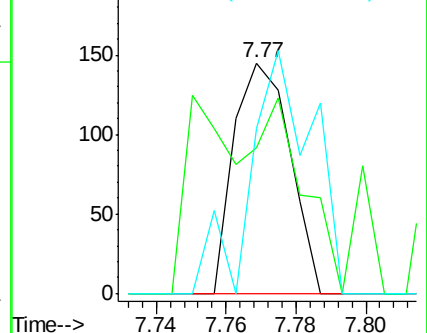
58 117.4 57.1 85.7#

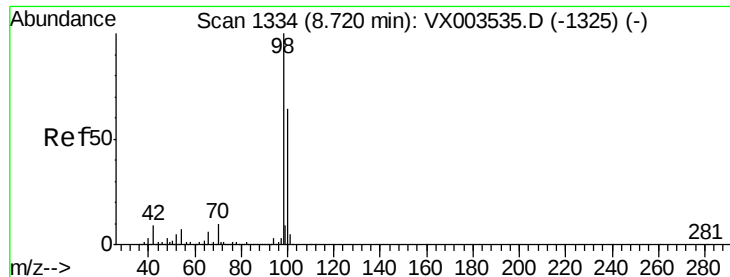


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.20 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Instrument :

MSVOA_X

ClientSampleId :

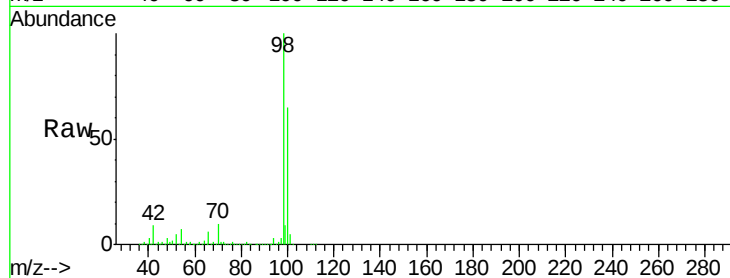
RE122D1-071218DL

Tot Ion: 98 Resp: 579742

Ion Ratio Lower Upper

98 100

100 64.5 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

400000

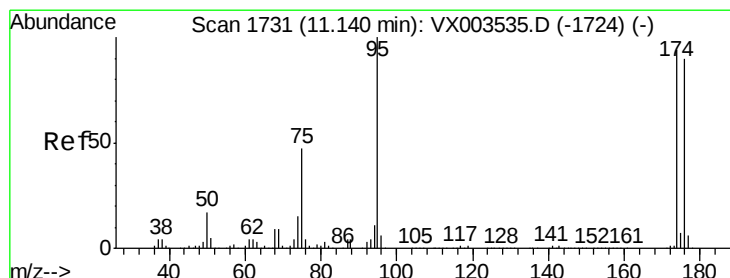
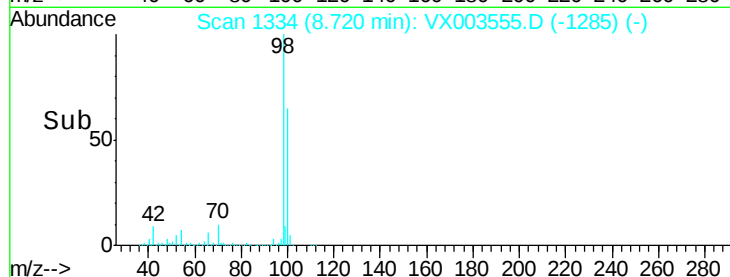
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

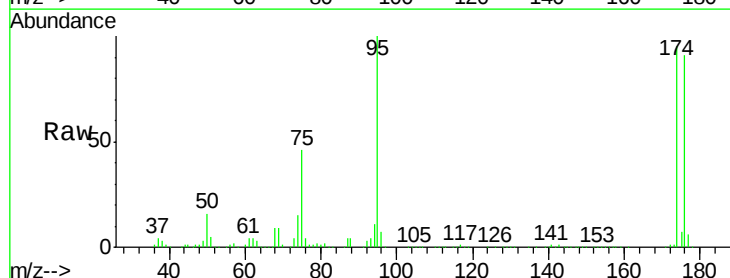
Tgt Ion: 95 Resp: 197476

Ion Ratio Lower Upper

95 100

174 97.7 0.0 187.4

176 95.0 0.0 181.0



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

200000

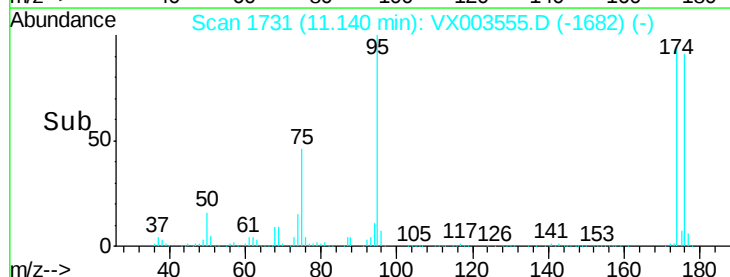
150000

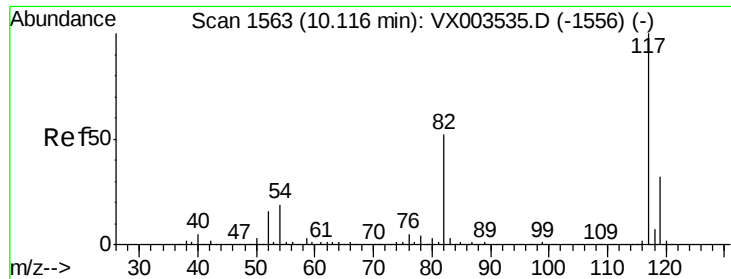
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Instrument :

MSVOA_X

ClientSampleId :

RE122D1-071218DL

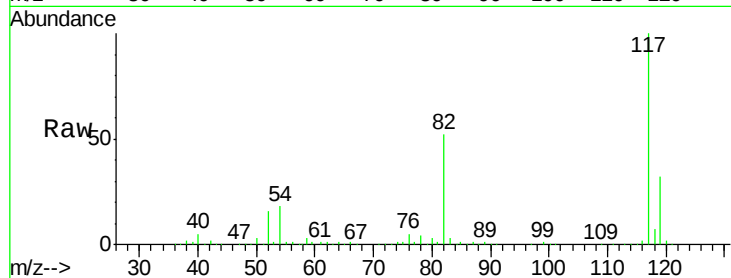
Tot Ion:117 Resp: 384587

Ion Ratio Lower Upper

117 100

82 51.9 45.0 67.4

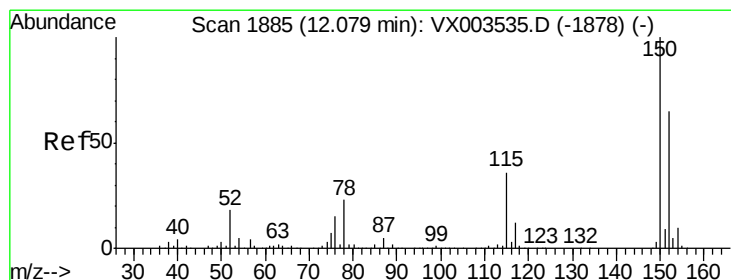
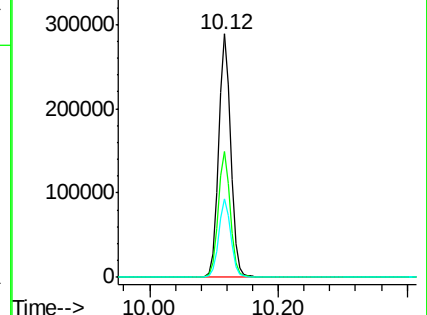
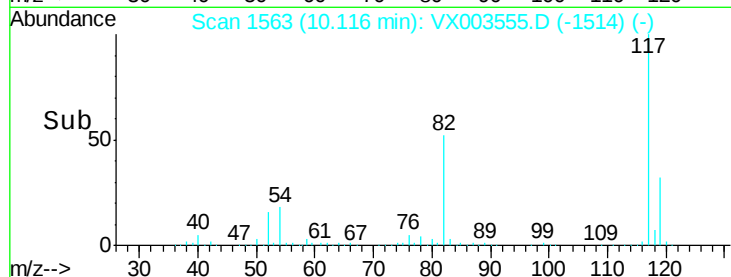
119 32.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

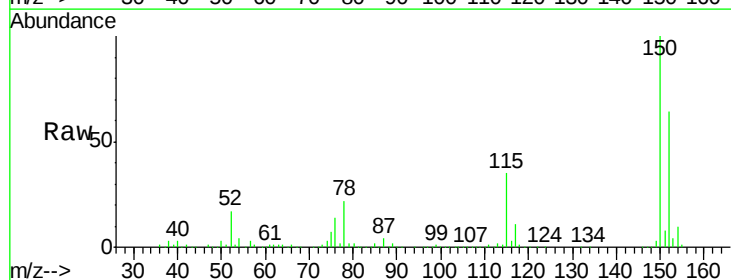
Tgt Ion:152 Resp: 213169

Ion Ratio Lower Upper

152 100

115 53.2 40.1 120.2

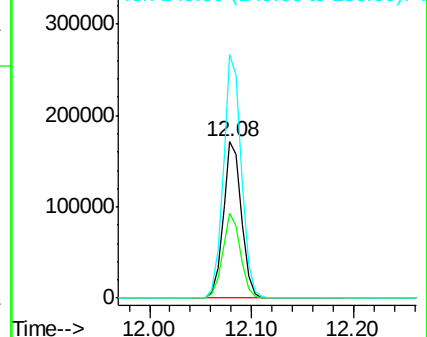
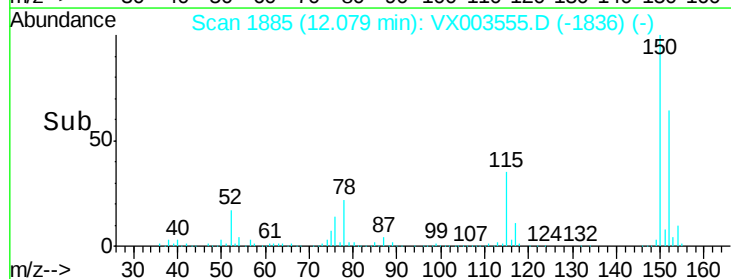
150 155.2 0.0 347.2

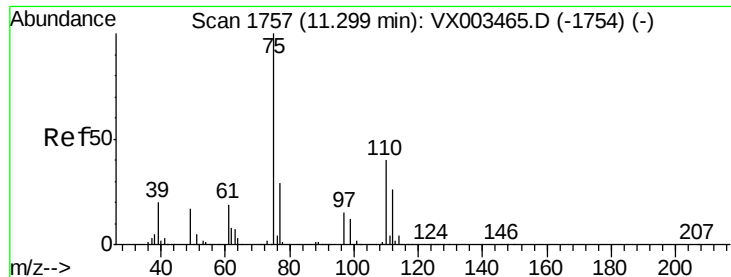


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.85 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Instrument :

MSVOA_X

ClientSampleId :

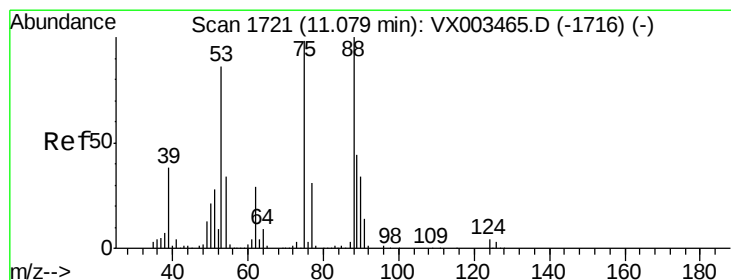
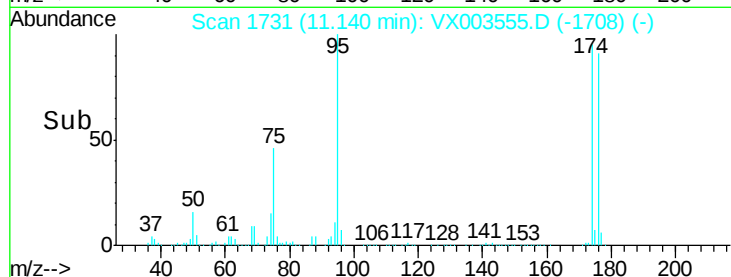
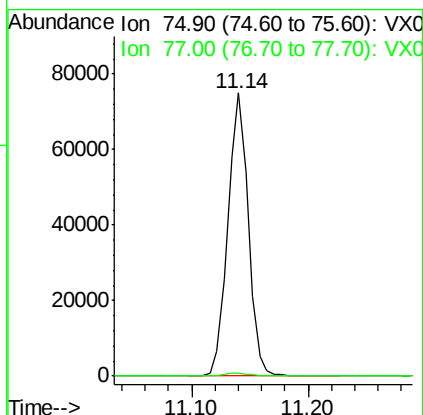
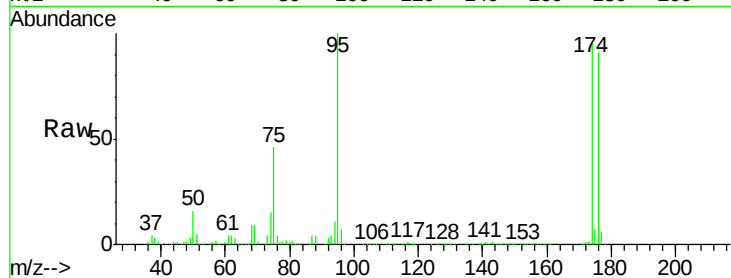
RE122D1-071218DL

Tot Ion: 75 Resp: 91338

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.90 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003555.D

Acq: 21 Jul 2018 15:21

Tgt Ion: 75 Resp: 91338

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

