

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100118\
 Data File : VX004862.D
 Acq On : 01 Oct 2018 11:27
 Operator : JC/MD
 Sample : J5135-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EB02-20180925

Quant Time: Oct 02 02:37:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	221036	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	357446	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	348631	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	188353	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	171627	54.36	ug/l	0.00
Spiked Amount			Recovery	=	108.72%	
35) Dibromofluoromethane	5.50	113	145645	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
50) Toluene-d8	8.72	98	527107	52.34	ug/l	0.00
Spiked Amount			Recovery	=	104.68%	
62) 4-Bromofluorobenzene	11.14	95	183297	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	

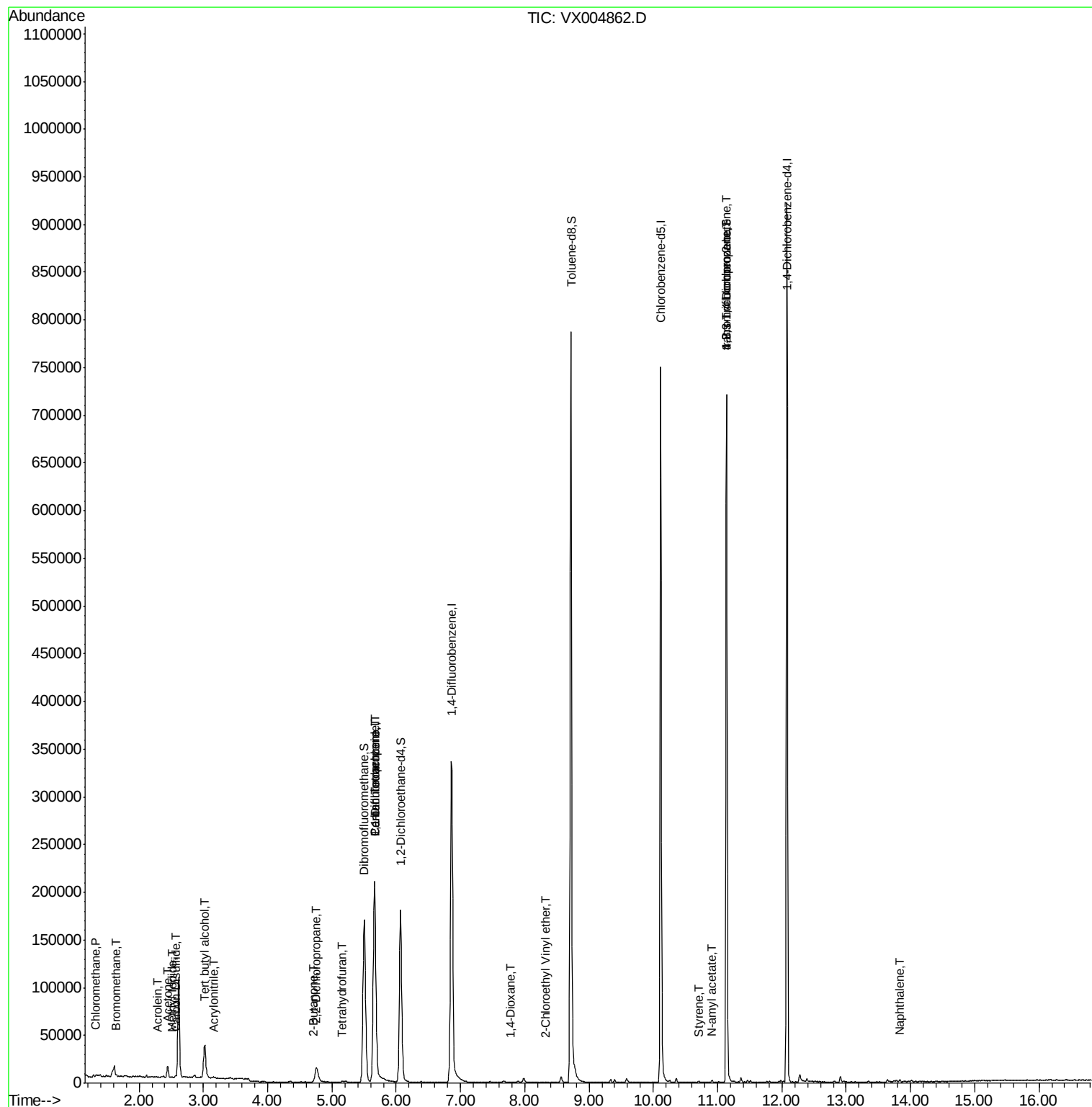
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	953	0.261	ug/l	91
5) Bromomethane	1.64	94	601	0.296	ug/l	96
6) Chloroethane	1.73	64	568	Below Cal	#	44
10) Methyl Iodide	2.51	142	953	0.294	ug/l #	86
11) Tert butyl alcohol	3.01	59	23671	26.812	ug/l #	78
13) Acrolein	2.29	56	290	0.462	ug/l #	40
15) Acrylonitrile	3.16	53	918	0.472	ug/l #	70
16) Acetone	2.45	43	12121	6.575	ug/l	95
17) Carbon Disulfide	2.57	76	2058	0.286	ug/l #	94
20) Methylene Chloride	2.86	84	1025	Below Cal	#	75
25) 2-Butanone	4.70	43	1329	0.489	ug/l #	72
26) 2,2-Dichloropropane	4.76	77	1415	0.387	ug/l #	52
29) Tetrahydrofuran	5.16	42	507	0.300	ug/l #	62
36) 1,1-Dichloropropene	5.66	75	14840	3.590	ug/l #	51
38) Carbon Tetrachloride	5.67	117	19688	4.531	ug/l #	15
49) 1,4-Dioxane	7.77	88	21	0.235	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.32	63	58	14.262	ug/l #	45
70) Styrene	10.71	104	267	2.167	ug/l	93
74) N-amyl acetate	10.91	43	708	1.853	ug/l #	75
76) 1,2,3-Trichloropropane	11.14	75	90738	21.493	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	407	Below Cal		91
81) trans-1,4-Dichloro-2-buten	11.14	75	90738	58.278	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	463	Below Cal		99
95) Naphthalene	13.83	128	1355	0.805	ug/l #	90

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 26 14:17:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

Instrument :

MSVOA_X

ClientSampleId :

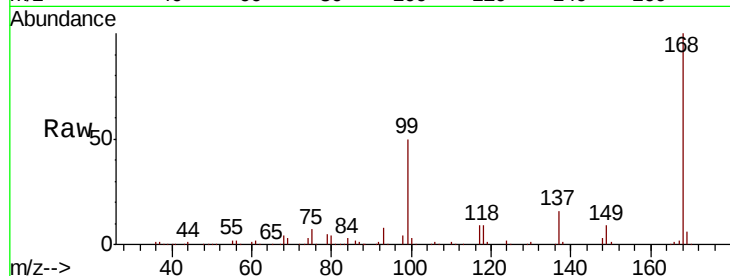
EB02-20180925

Tot Ion:168 Resp: 221036

Ion Ratio Lower Upper

168 100

99 50.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

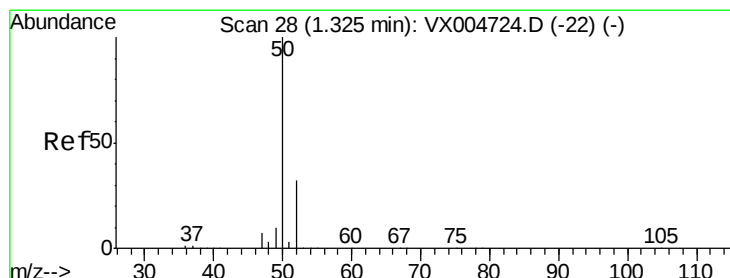
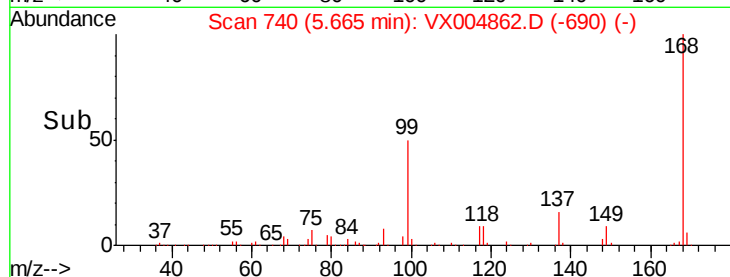
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.261 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX004862.D

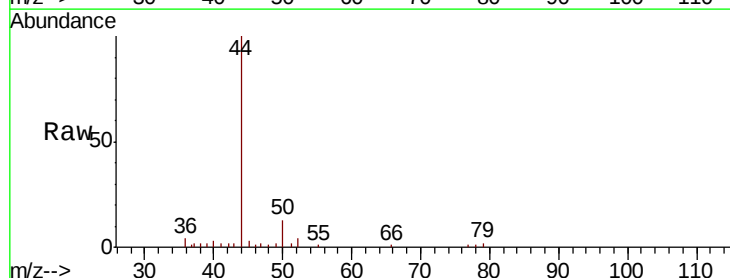
Acq: 01 Oct 2018 11:27

Tgt Ion: 50 Resp: 953

Ion Ratio Lower Upper

50 100

52 27.4 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

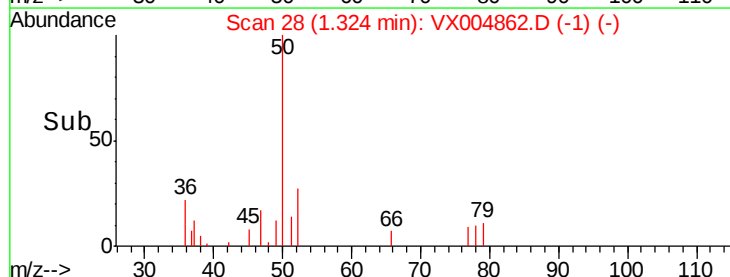
600

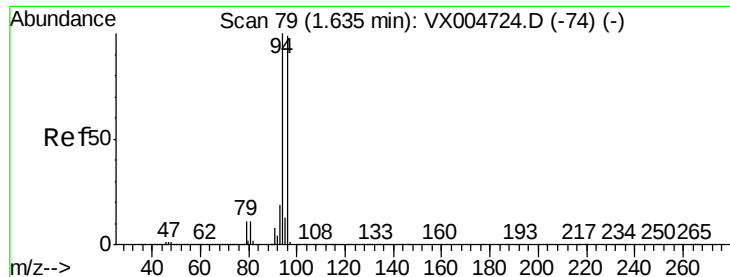
400

200

0

Time--> 1.25 1.30 1.35





#5

Bromomethane

Concen: 0.296 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

Instrument :

MSVOA_X

ClientSampleId :

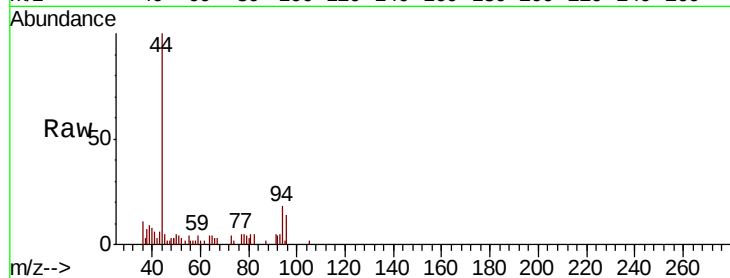
EB02-20180925

Tot Ion: 94 Resp: 601

Ion Ratio Lower Upper

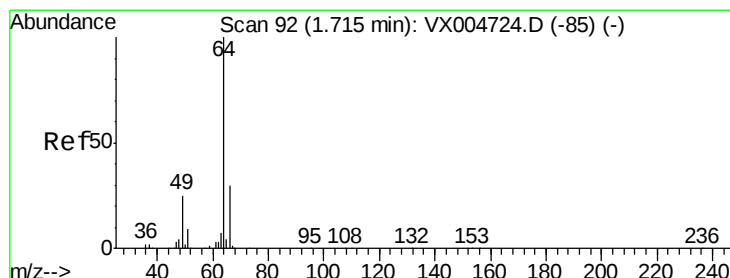
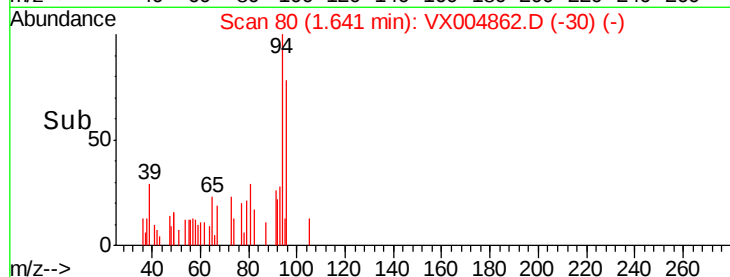
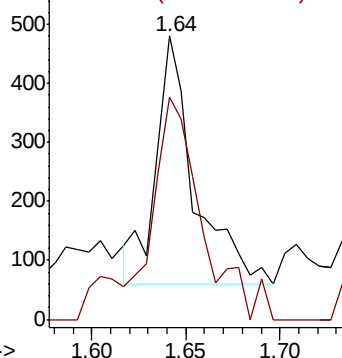
94 100

96 89.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX004862.D

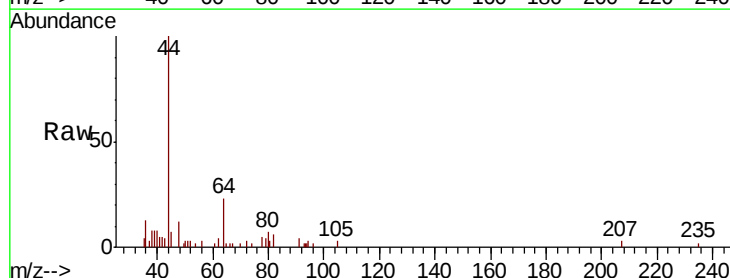
Acq: 01 Oct 2018 11:27

Tgt Ion: 64 Resp: 568

Ion Ratio Lower Upper

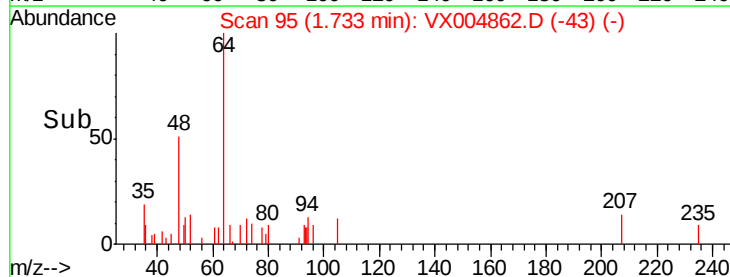
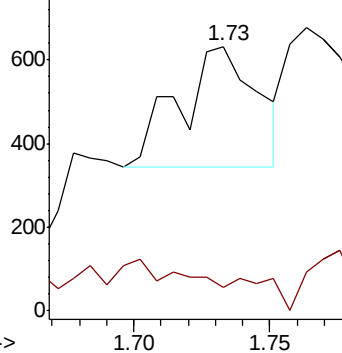
64 100

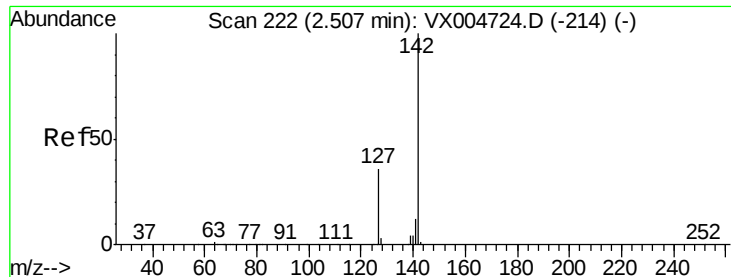
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

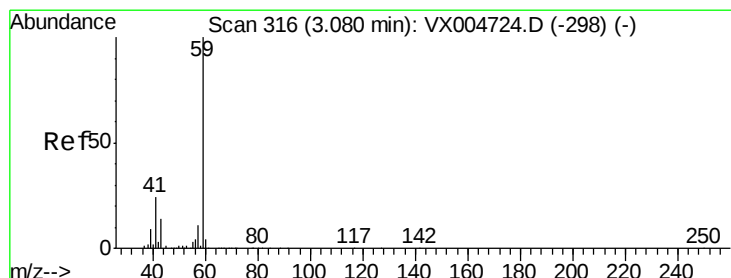
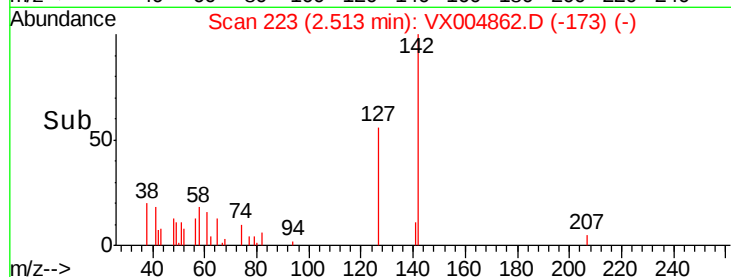
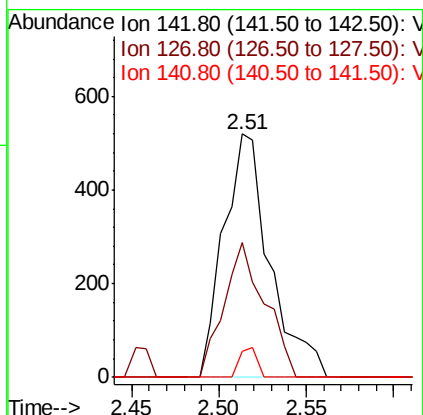
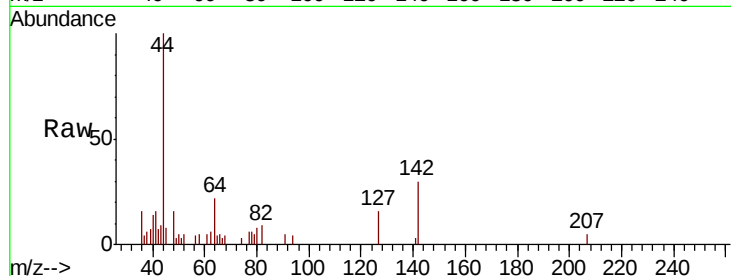




#10
Methvl Iodide
Concen: 0.294 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004862.D
Acq: 01 Oct 2018 11:27

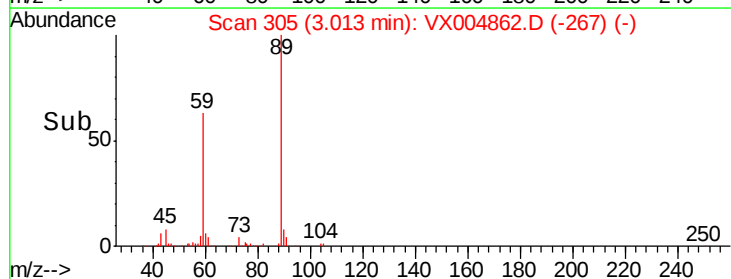
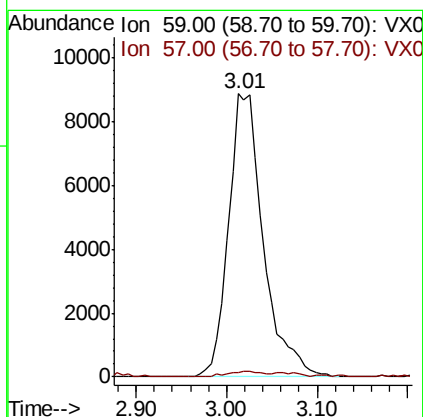
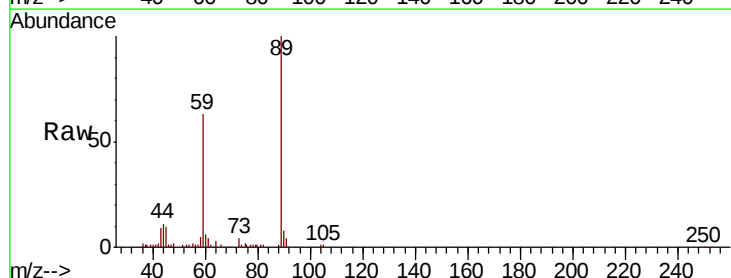
Instrument :
MSVOA_X
ClientSampleId :
EB02-20180925

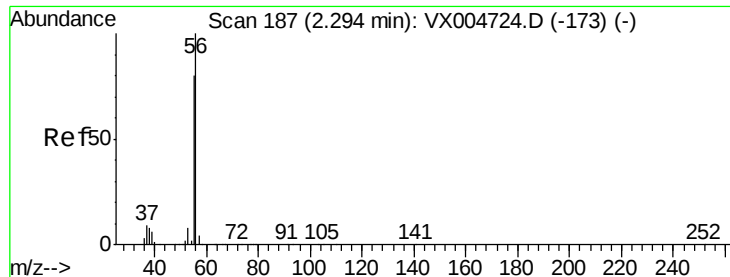
Tot Ion:142 Resp: 953
Ion Ratio Lower Upper
142 100
127 49.2 33.8 50.6
141 4.6 11.4 17.0#



#11
Tert butyl alcohol
Concen: 26.812 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.07 min
Lab File: VX004862.D
Acq: 01 Oct 2018 11:27

Tgt Ion: 59 Resp: 23671
Ion Ratio Lower Upper
59 100
57 1.9 8.2 12.4#

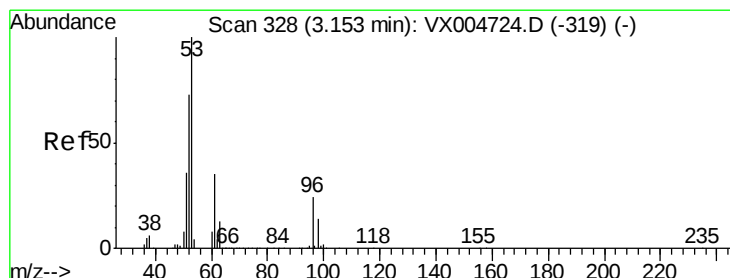
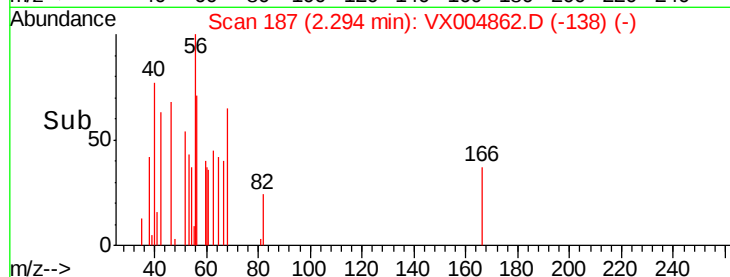
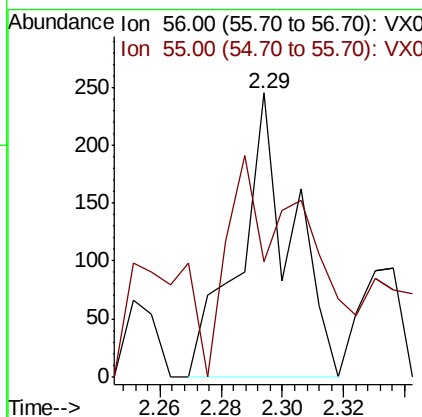
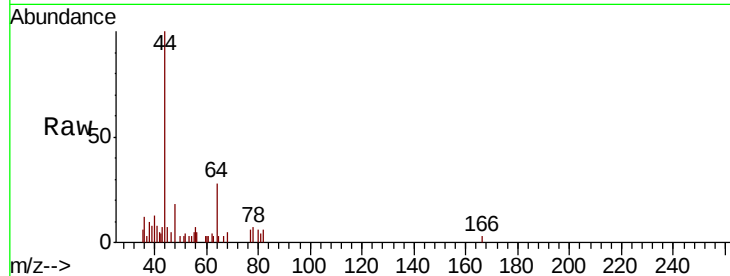




#13
Acrolein
Concen: 0.462 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX004862.D
Acq: 01 Oct 2018 11:27

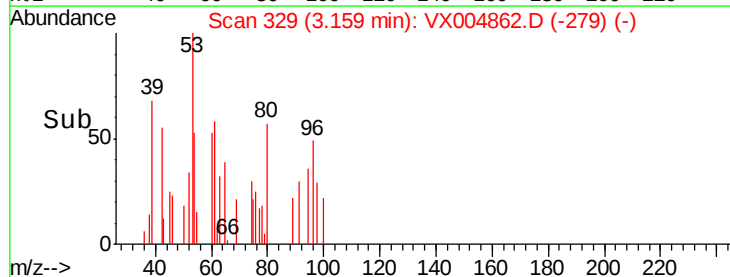
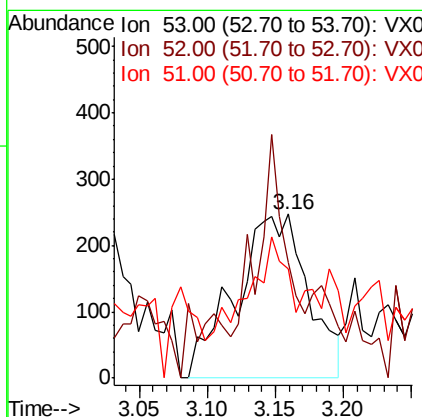
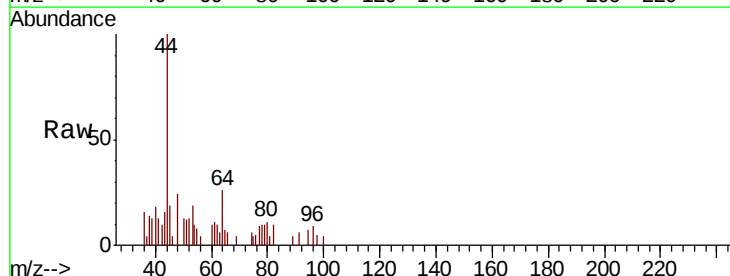
Instrument :
MSVOA_X
ClientSampleId :
EB02-20180925

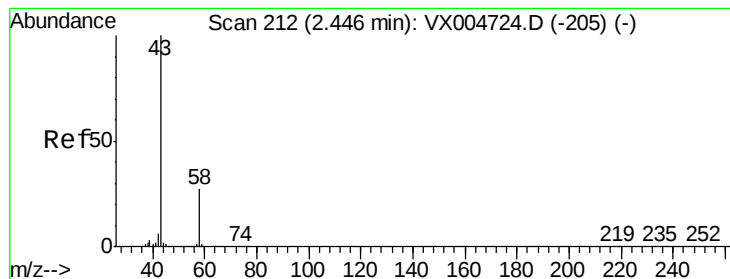
Tot Ion: 56 Resp: 290
Ion Ratio Lower Upper
56 100
55 117.2 54.7 82.1#



#15
Acrylonitrile
Concen: 0.472 ug/l
RT: 3.16 min Scan# 329
Delta R.T. 0.01 min
Lab File: VX004862.D
Acq: 01 Oct 2018 11:27

Tgt Ion: 53 Resp: 918
Ion Ratio Lower Upper
53 100
52 43.4 65.2 97.8#
51 35.7 28.2 42.2





#16

Acetone

Concen: 6.575 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

Instrument :

MSVOA_X

ClientSampleId :

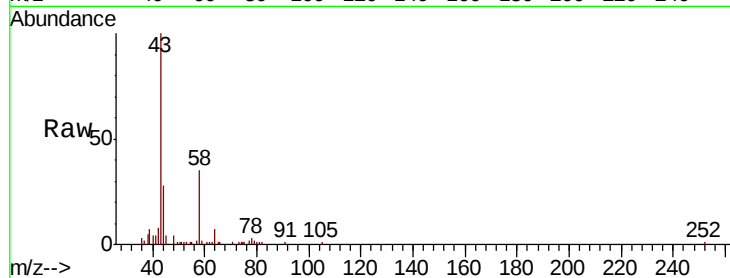
EB02-20180925

Tot Ion: 43 Resp: 12121

Ion Ratio Lower Upper

43 100

58 35.5 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

8000

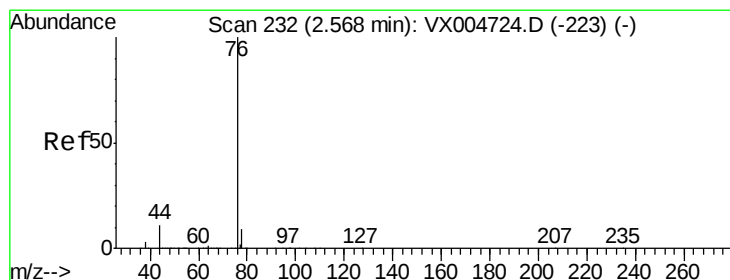
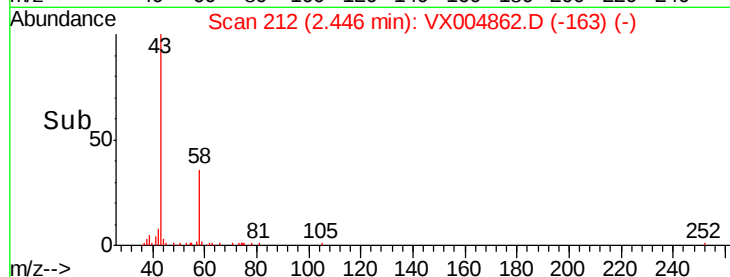
6000

4000

2000

0

Time--> 2.35 2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: 0.286 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX004862.D

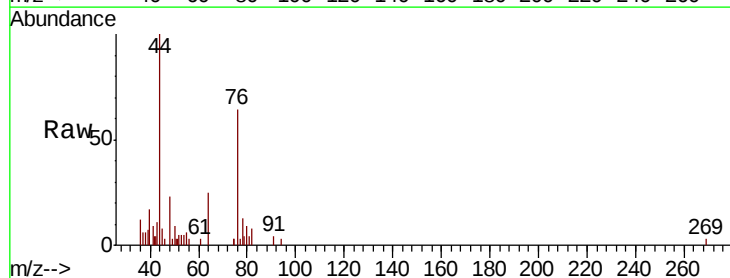
Acq: 01 Oct 2018 11:27

Tgt Ion: 76 Resp: 2058

Ion Ratio Lower Upper

76 100

78 11.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

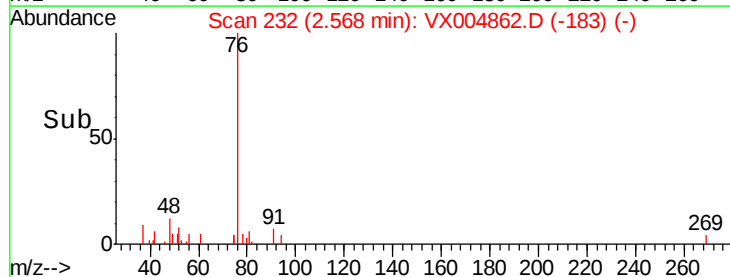
2.57

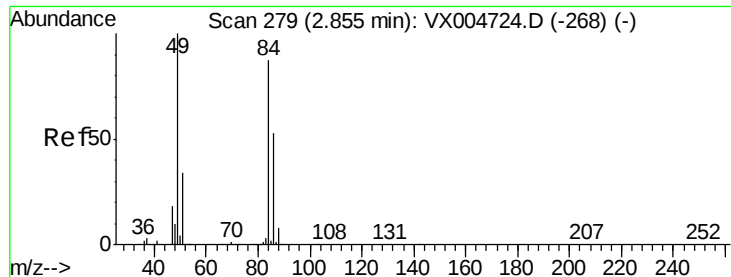
1000

500

0

Time--> 2.50 2.55 2.60





#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

Instrument :

MSVOA_X

ClientSampleId :

EB02-20180925

Tot Ion: 84 Resp: 1025

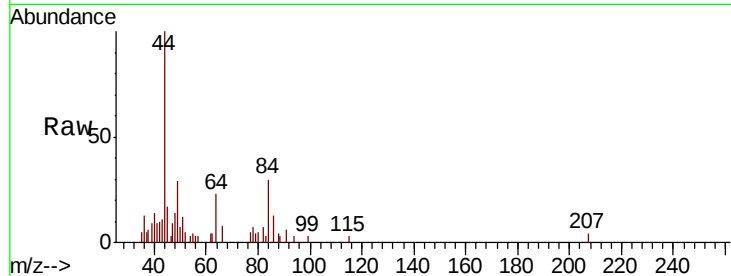
Ion Ratio Lower Upper

84 100

49 96.1 101.2 151.8#

51 27.8 29.5 44.3#

86 44.1 52.3 78.5#



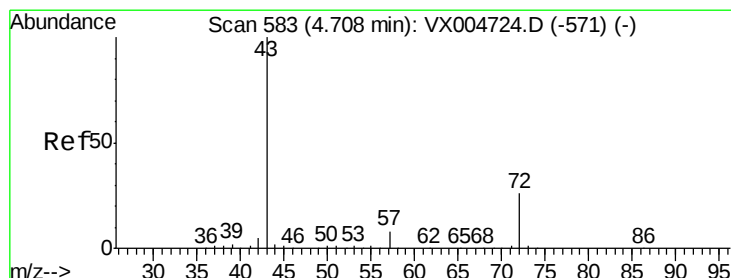
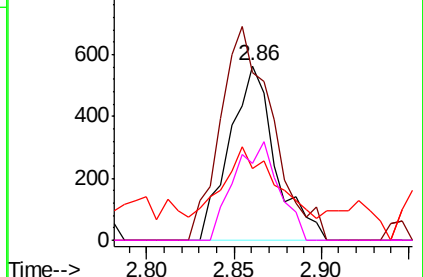
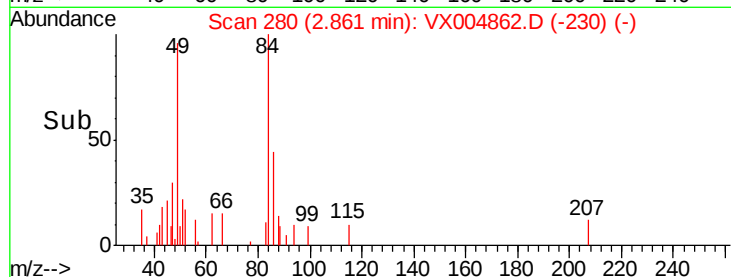
Abundance Ion 83.90 (83.60 to 84.60): VX0

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

Time-->



#25

2-Butanone

Concen: 0.489 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX004862.D

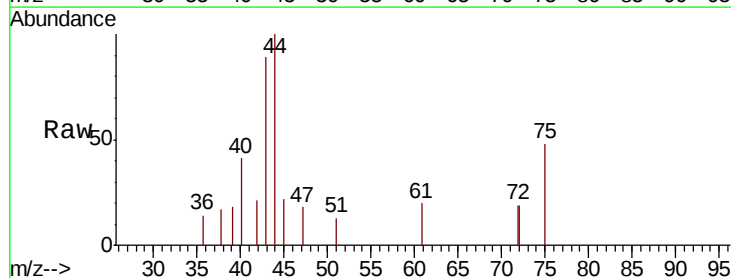
Acq: 01 Oct 2018 11:27

Tgt Ion: 43 Resp: 1329

Ion Ratio Lower Upper

43 100

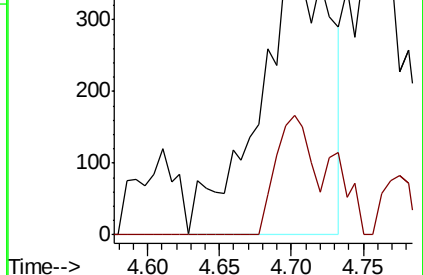
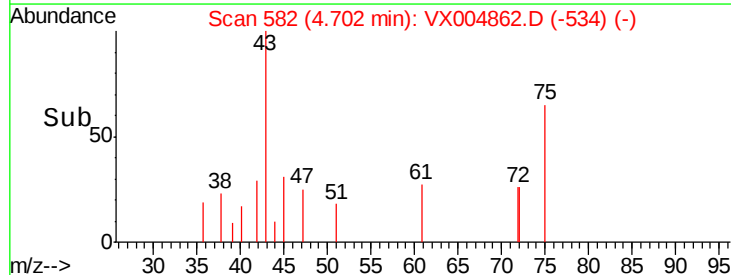
72 42.0 22.0 33.0#

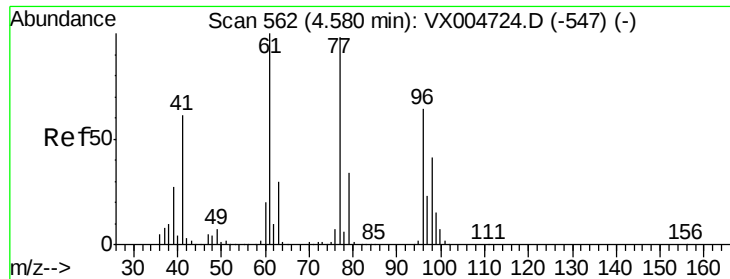


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Time-->





#26

2,2-Dichloropropane

Concen: 0.387 ug/l

RT: 4.76 min Scan# 591

Delta R.T. 0.18 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

Instrument :

MSVOA_X

ClientSampleId :

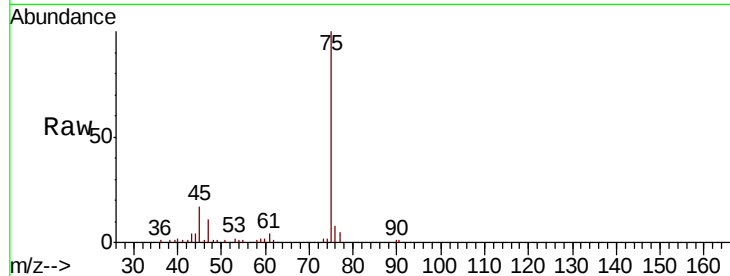
EB02-20180925

Tot Ion: 77 Resp: 1415

Ion Ratio Lower Upper

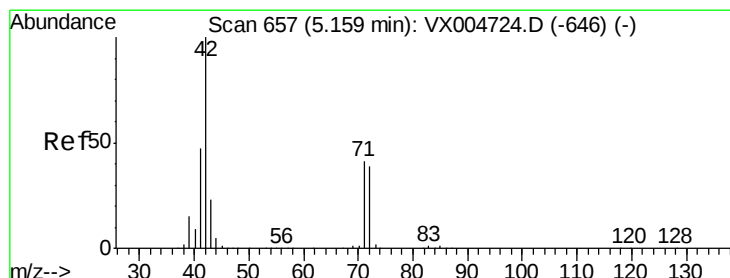
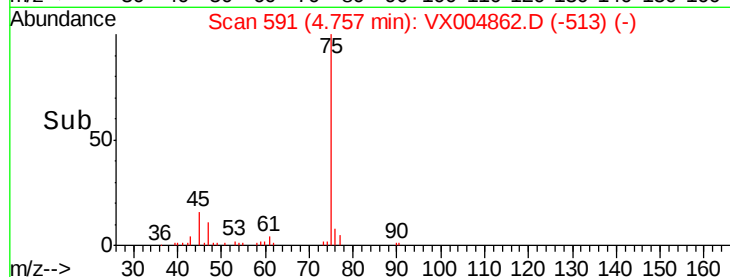
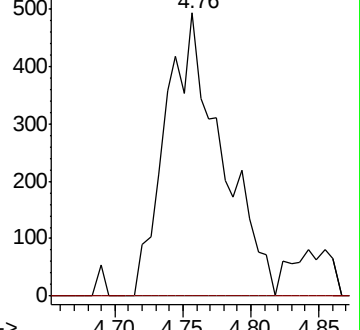
77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#29

Tetrahydrofuran

Concen: 0.300 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.00 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

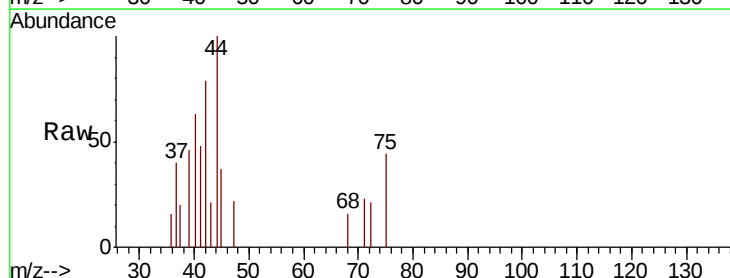
Tgt Ion: 42 Resp: 507

Ion Ratio Lower Upper

42 100

72 29.6 37.4 56.0#

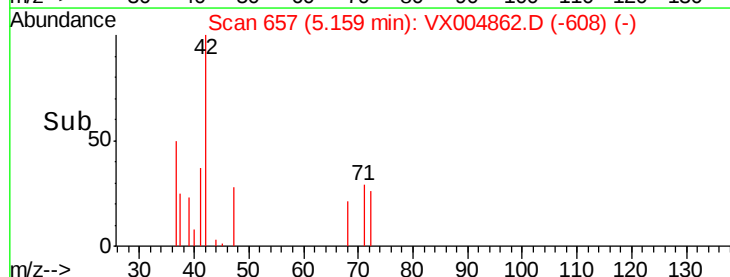
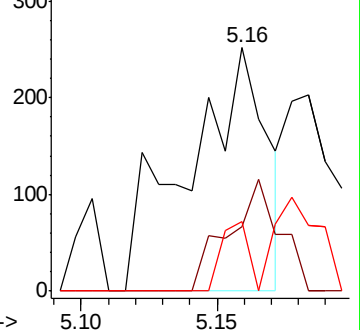
71 9.7 34.5 51.7#

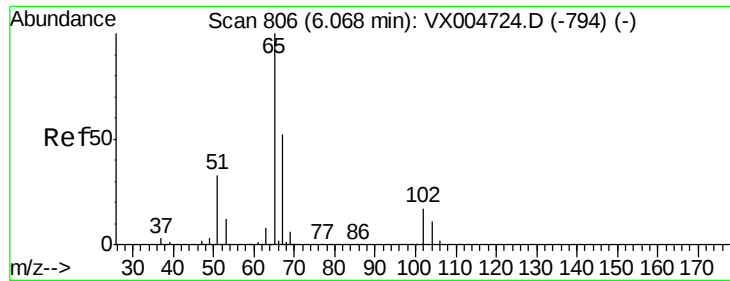


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.355 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

Instrument :

MSVOA_X

ClientSampleId :

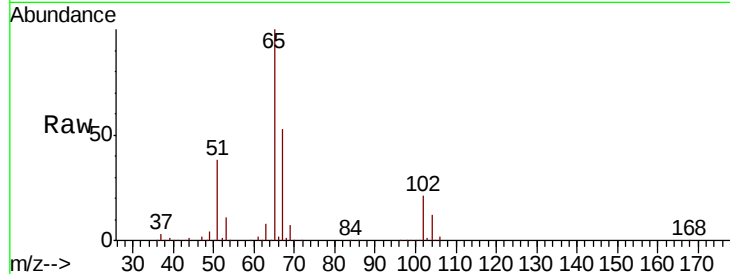
EB02-20180925

Tot Ion: 65 Resp: 171627

Ion Ratio Lower Upper

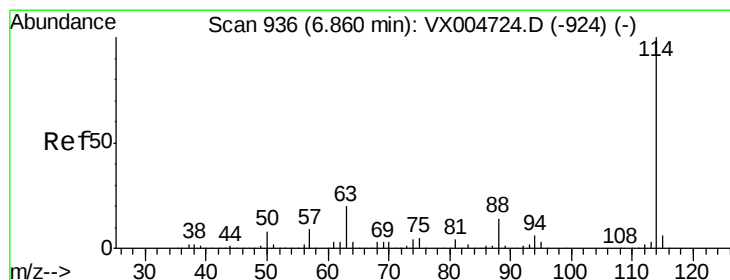
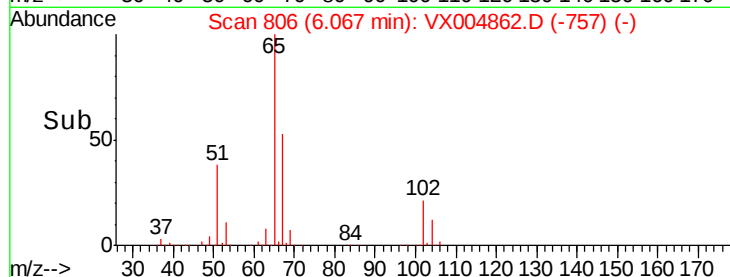
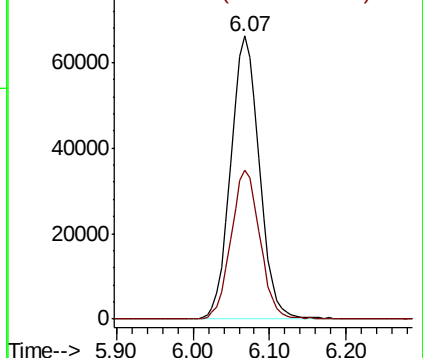
65 100

67 53.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

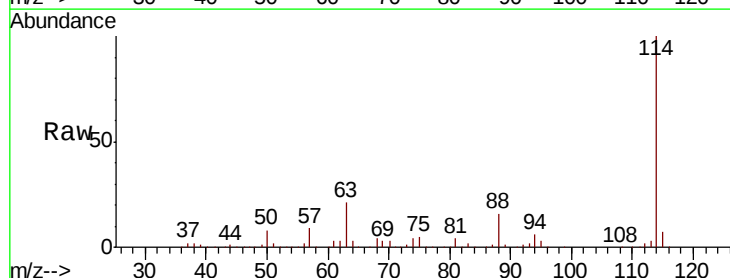
Tgt Ion: 114 Resp: 357446

Ion Ratio Lower Upper

114 100

63 21.3 0.0 39.0

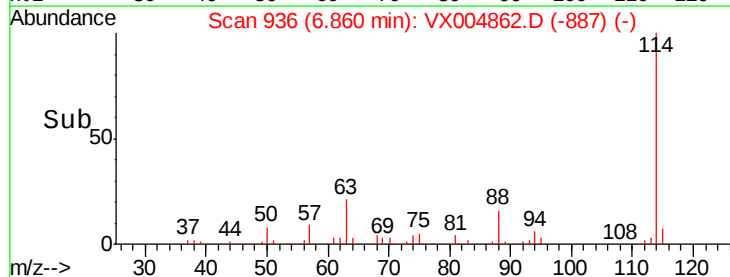
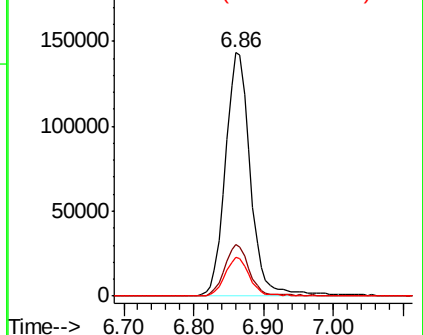
88 15.8 0.0 30.4

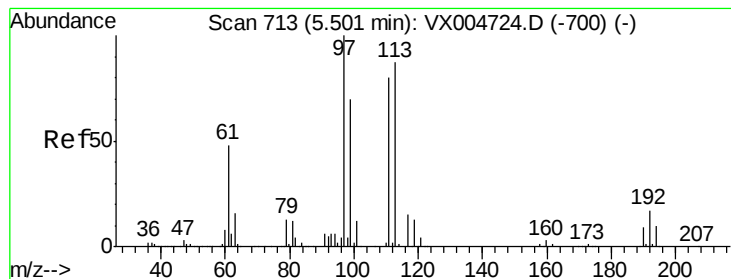


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.077 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

Instrument :

MSVOA_X

ClientSampleId :

EB02-20180925

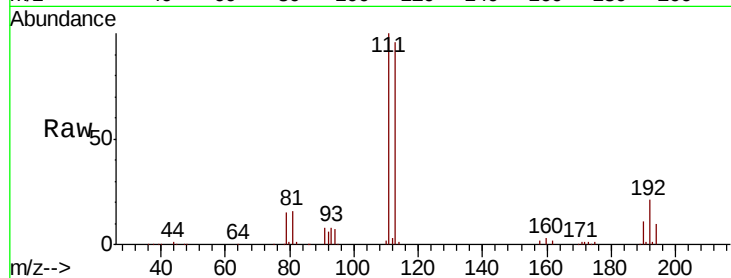
Tot Ion:113 Resp: 145645

Ion Ratio Lower Upper

113 100

111 103.0 82.4 123.6

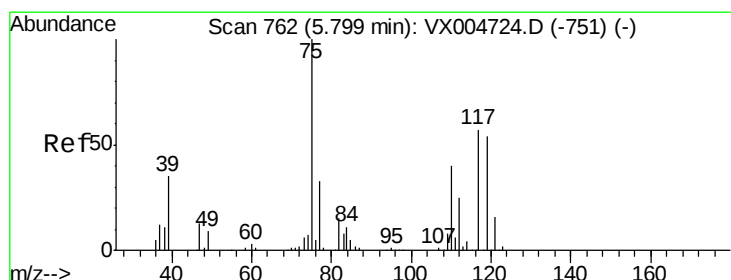
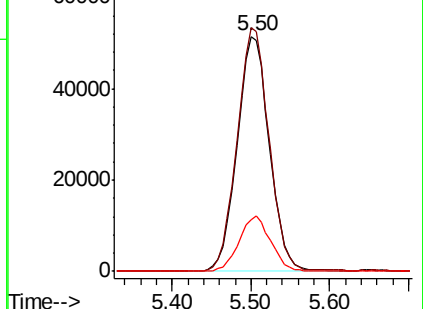
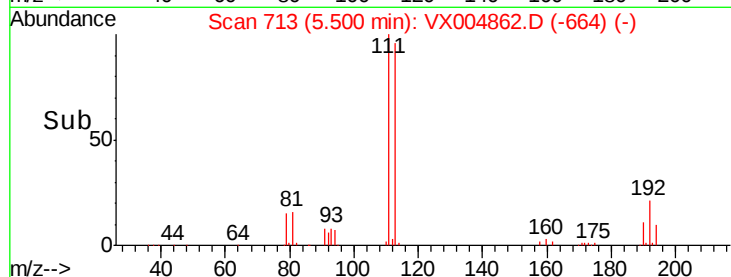
192 23.1 19.4 29.2



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: 3.590 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

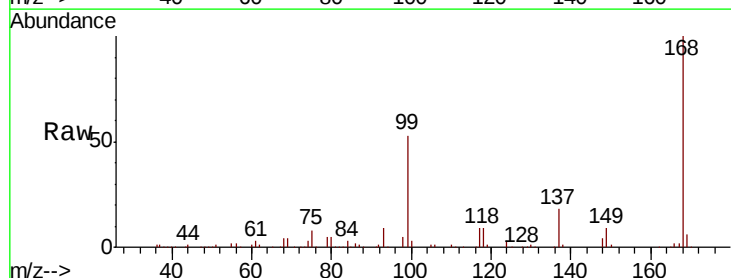
Tgt Ion: 75 Resp: 14840

Ion Ratio Lower Upper

75 100

110 10.4 18.0 54.0#

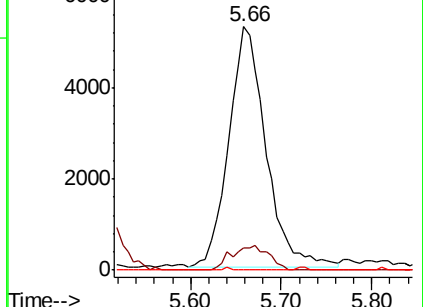
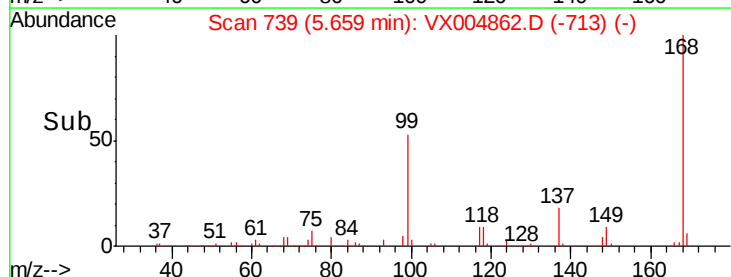
77 0.0 24.6 36.8#

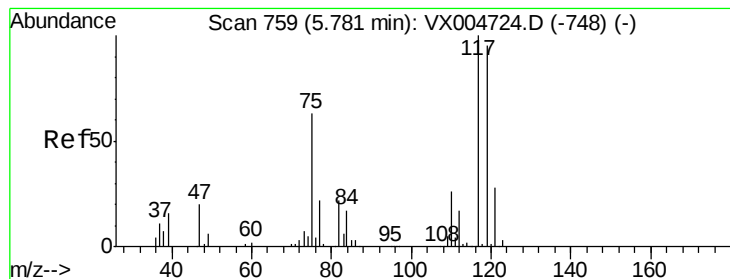


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.531 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

Instrument :

MSVOA_X

ClientSampleId :

EB02-20180925

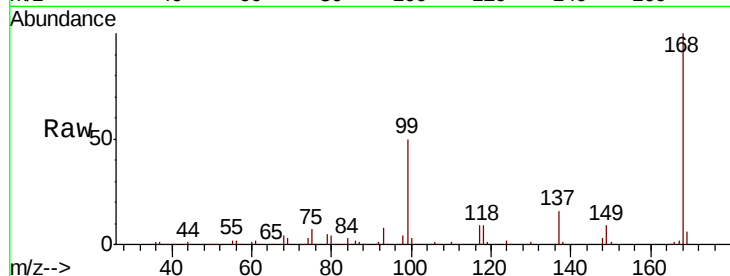
Tot Ion:117 Resp: 19688

Ion Ratio Lower Upper

117 100

119 6.0 78.8 118.2#

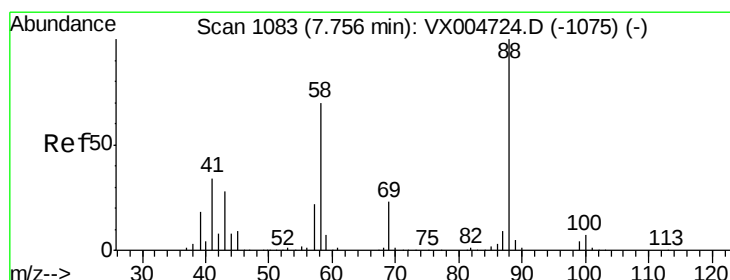
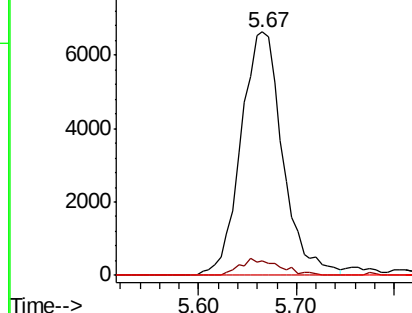
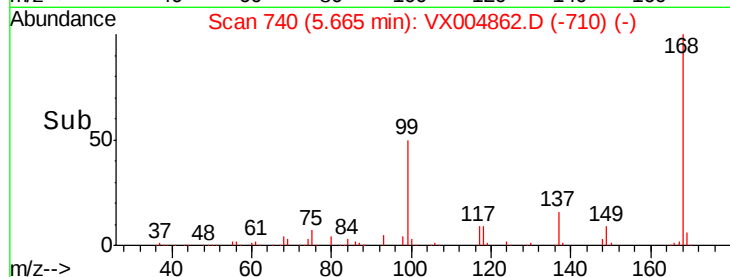
121 0.0 24.9 37.3#



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



#49

1,4-Dioxane

Concen: 0.235 ug/l

RT: 7.77 min Scan# 1086

Delta R.T. 0.02 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

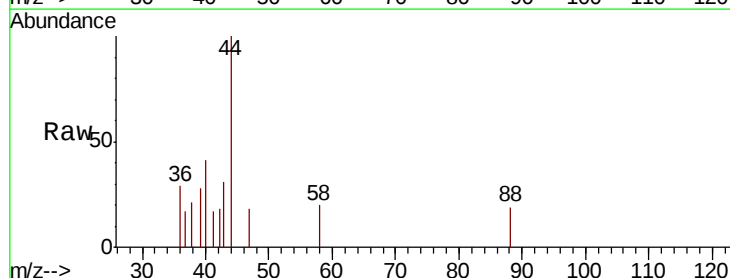
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 657.1 24.7 37.1#

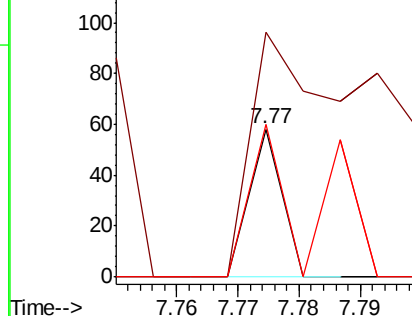
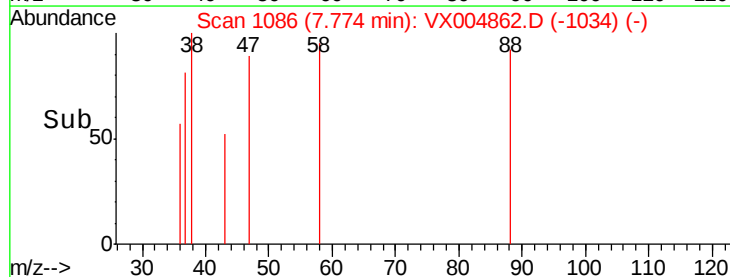
58 200.0 55.3 82.9#

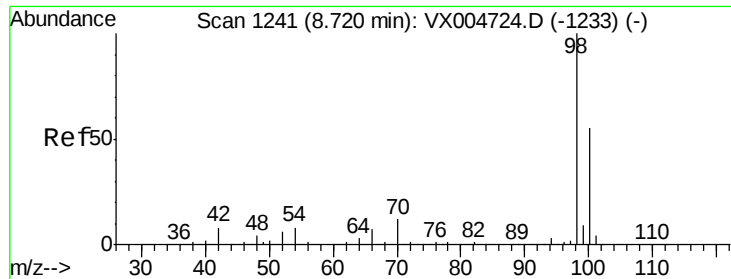


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

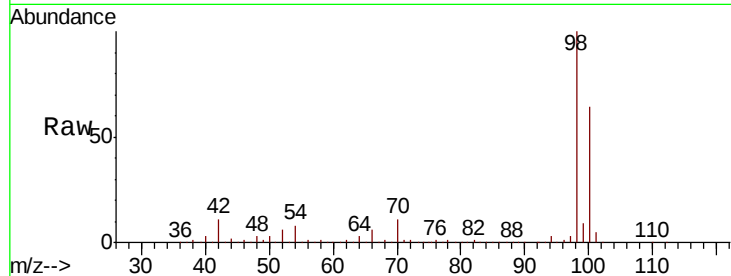




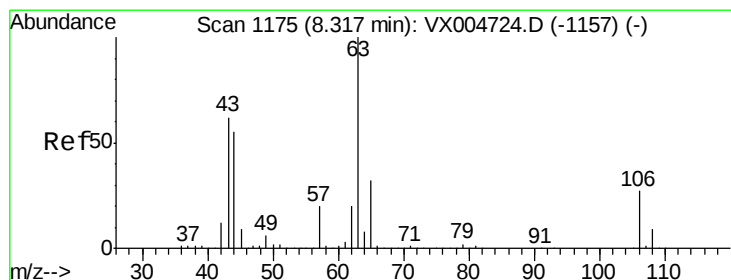
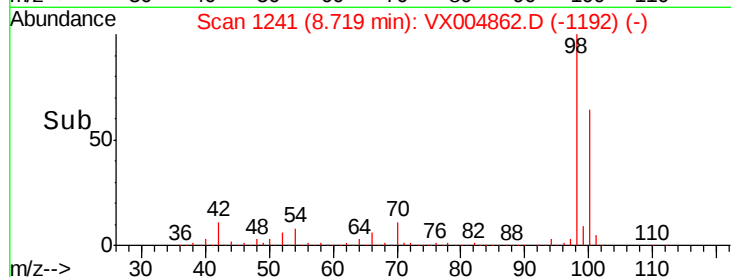
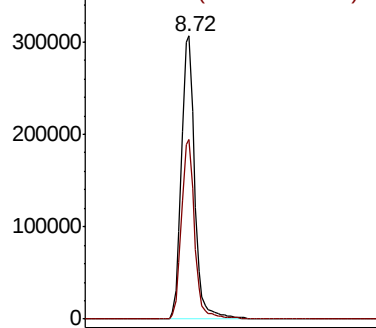
#50
Toluene-d8
Concen: 52.338 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX004862.D
Acq: 01 Oct 2018 11:27

Instrument :
MSVOA_X
ClientSampleId :
EB02-20180925

Tot Ion: 98 Resp: 527107
Ion Ratio Lower Upper
98 100
100 63.3 52.9 79.3

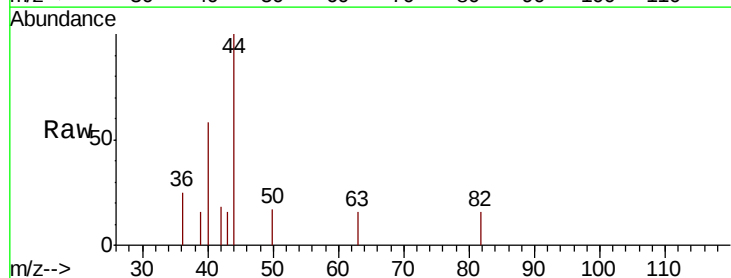


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

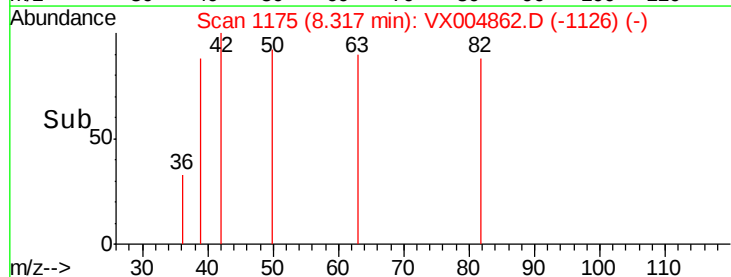
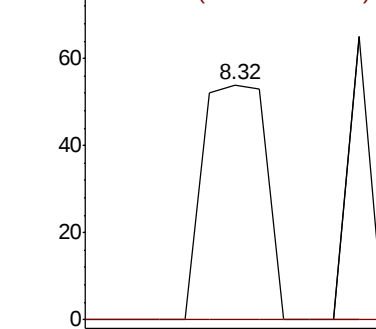


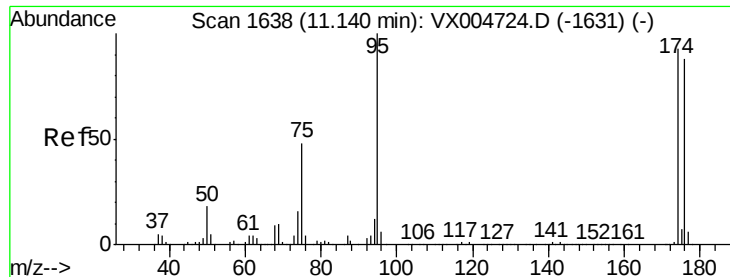
#58
2-Chloroethyl Vinyl ether
Concen: 14.262 ug/l
RT: 8.32 min Scan# 1175
Delta R.T. 0.00 min
Lab File: VX004862.D
Acq: 01 Oct 2018 11:27

Tgt Ion: 63 Resp: 58
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 50.520 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

Instrument :

MSVOA_X

ClientSampleId :

EB02-20180925

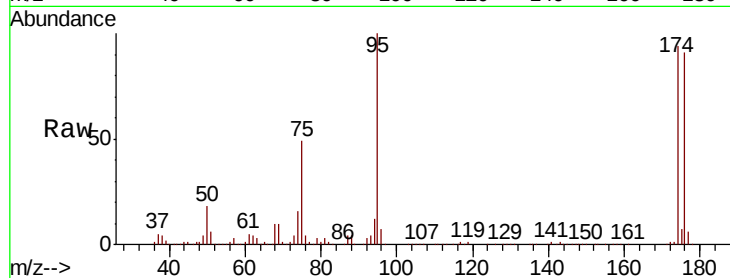
Tot Ion: 95 Resp: 183297

Ion Ratio Lower Upper

95 100

174 92.6 0.0 185.2

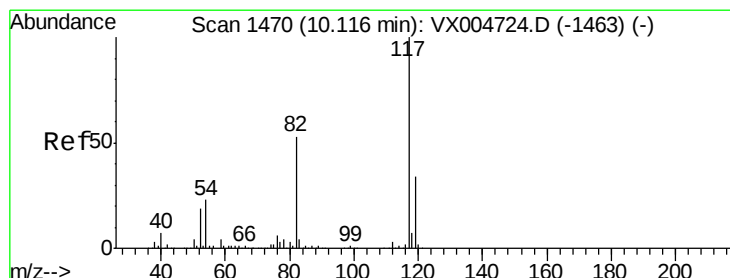
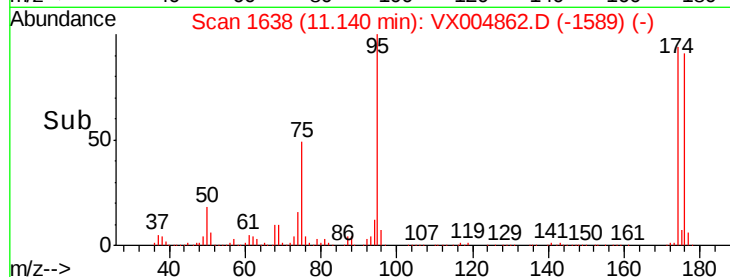
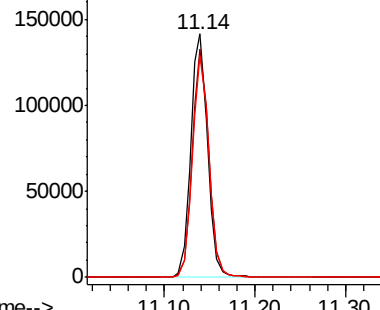
176 89.2 0.0 178.6



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: VX004862.D

Acq: 01 Oct 2018 11:27

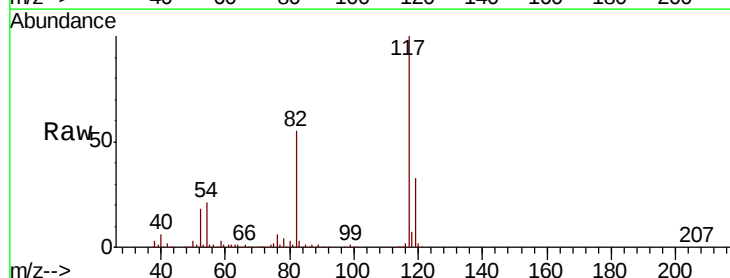
Tgt Ion: 117 Resp: 348631

Ion Ratio Lower Upper

117 100

82 55.4 47.8 71.6

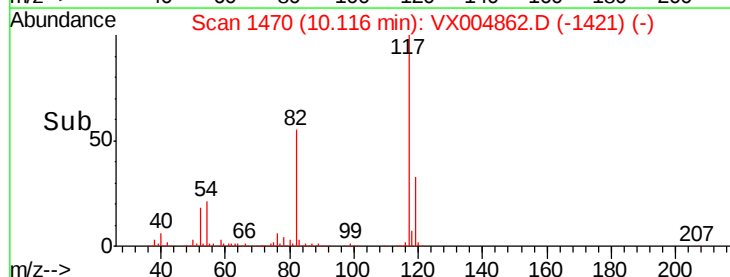
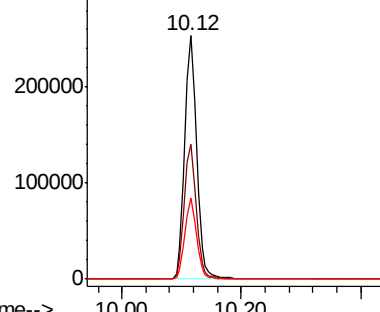
119 33.1 29.3 43.9

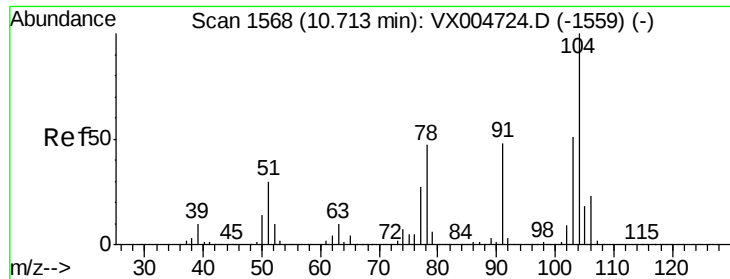


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

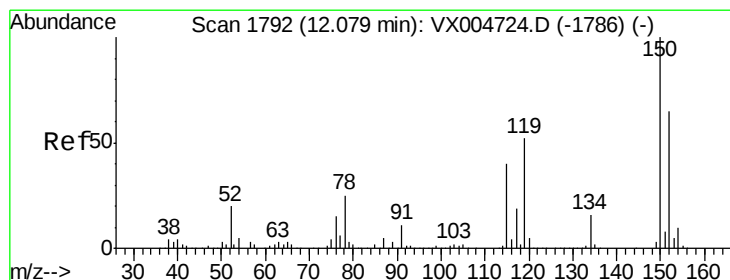
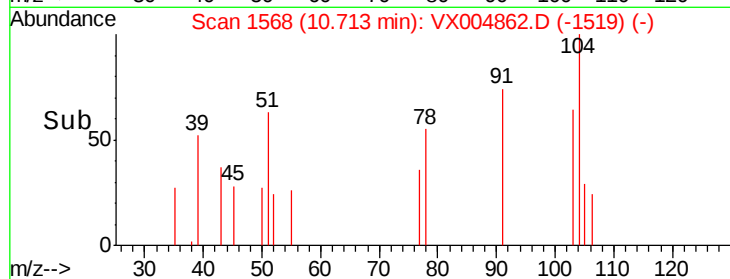
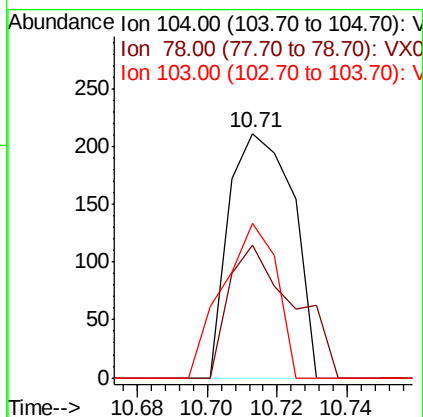
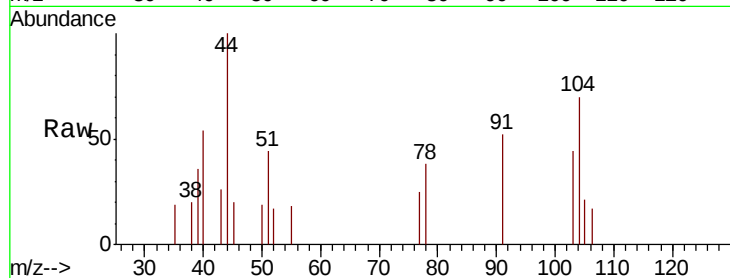




#70
Stvrene
Concen: 2.167 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX004862.D
Acq: 01 Oct 2018 11:27

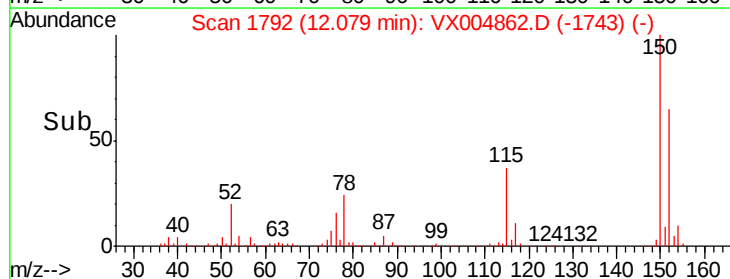
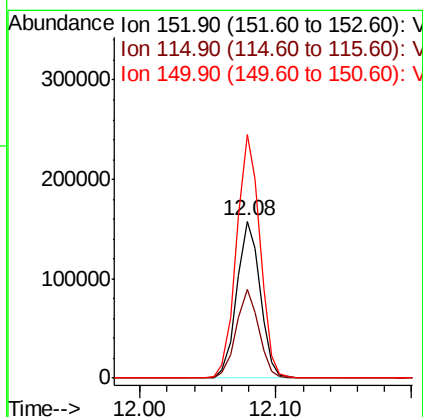
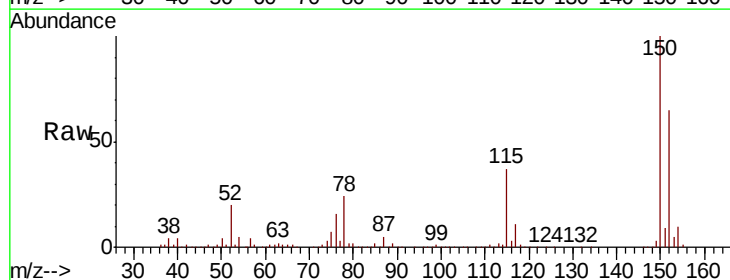
Instrument :
MSVOA_X
ClientSampleId :
EB02-20180925

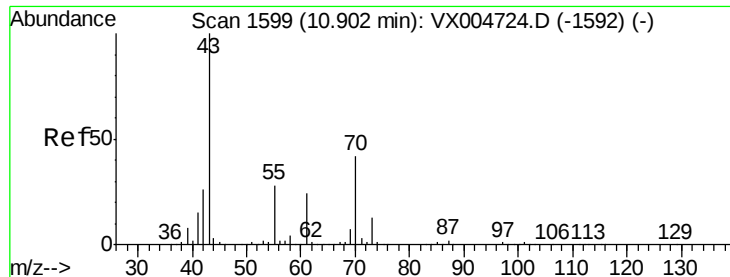
Tot Ion:104 Resp: 267
Ion Ratio Lower Upper
104 100
78 55.8 37.4 56.0
103 53.9 43.8 65.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004862.D
Acq: 01 Oct 2018 11:27

Tgt Ion:152 Resp: 188353
Ion Ratio Lower Upper
152 100
115 55.2 39.0 117.0
150 156.1 0.0 351.0





#74

N-amvl acetate

Concen: 1.853 ug/l

RT: 10.91 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

Instrument :

MSVOA_X

ClientSampleId :

EB02-20180925

Tot Ion: 43 Resp: 708

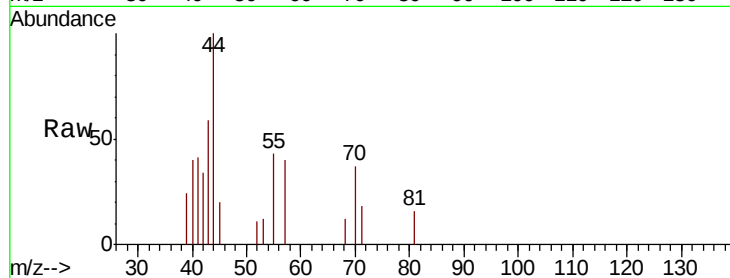
Ion Ratio Lower Upper

43 100

70 37.1 37.4 56.0#

55 37.3 21.8 32.8#

61 0.0 20.6 30.8#

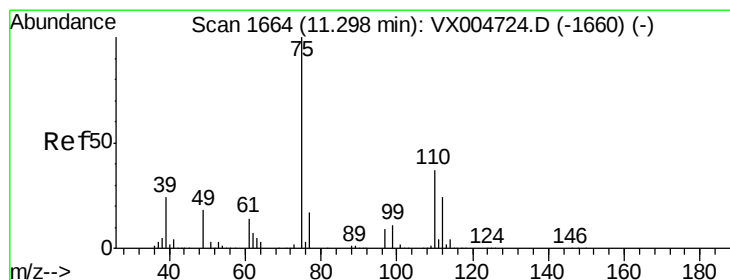
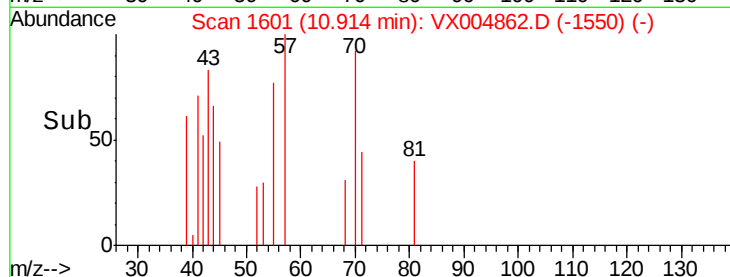
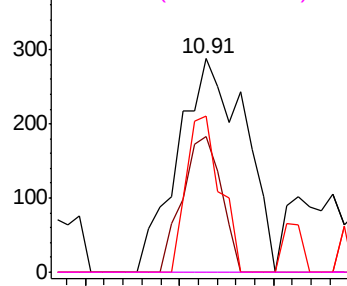


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 21.493 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004862.D

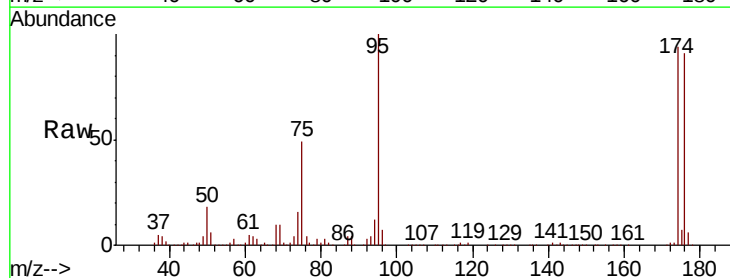
Acq: 01 Oct 2018 11:27

Tgt Ion: 75 Resp: 90738

Ion Ratio Lower Upper

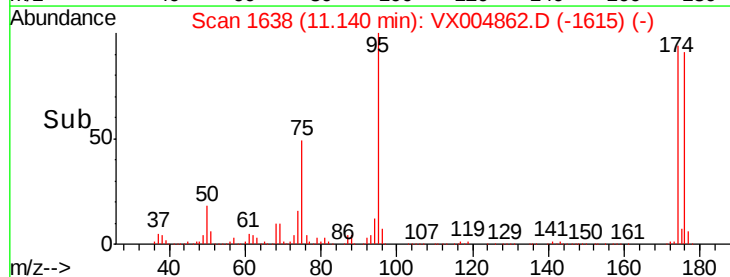
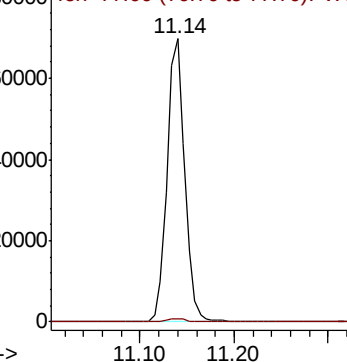
75 100

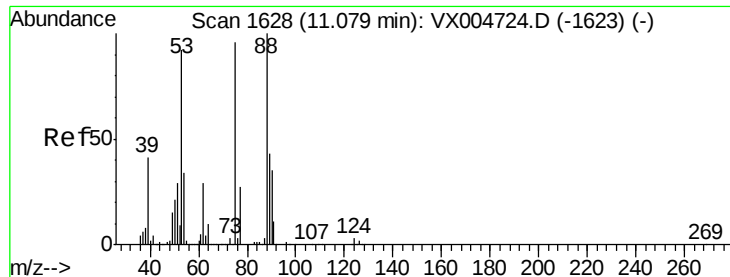
77 1.4 20.2 60.6#



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: 58.278 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

Instrument :

MSVOA_X

ClientSampleId :

EB02-20180925

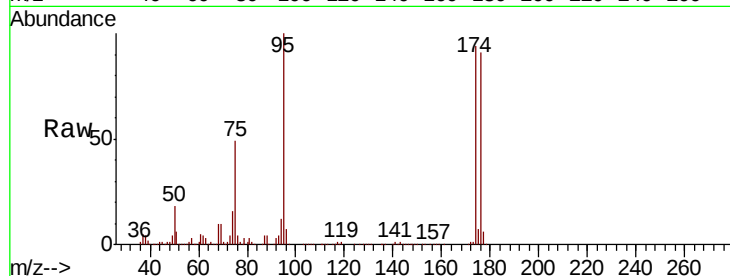
Tot Ion: 75 Resp: 90738

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

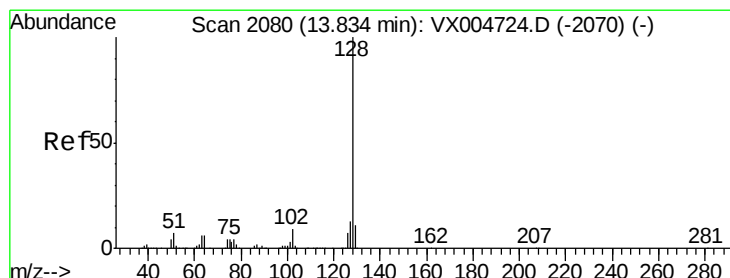
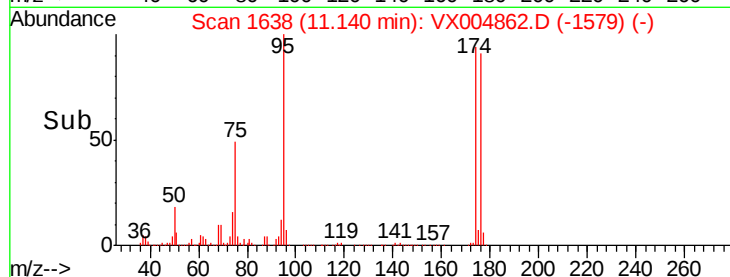
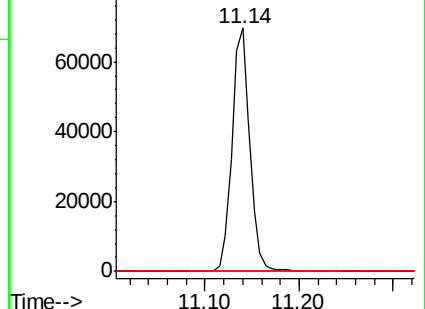
89 0.1 37.2 55.8#



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



#95

Naphthalene

Concen: 0.805 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004862.D

Acq: 01 Oct 2018 11:27

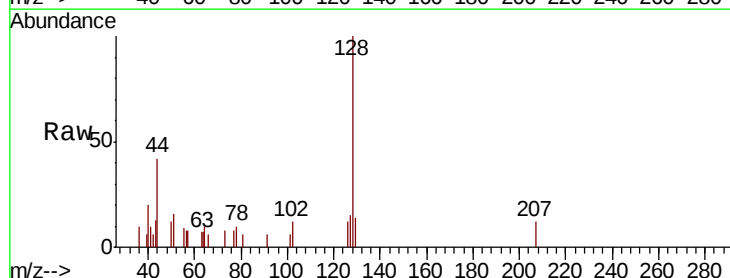
Tgt Ion:128 Resp: 1355

Ion Ratio Lower Upper

128 100

127 17.2 10.2 15.2#

129 7.2 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

