

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX100418\
 Data File : VX005002.D
 Acq On : 04 Oct 2018 06:54
 Operator : JC/MD
 Sample : J5135-19DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW508-3337DL

Quant Time: Oct 04 08:50:21 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	274533	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	418381	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	404979	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	227743	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	200650	51.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.32%	
35) Dibromofluoromethane	5.50	113	172819	48.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.48%	
50) Toluene-d8	8.71	98	595957	50.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.12%	
62) 4-Bromofluorobenzene	11.14	95	218508	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	

Target Compounds

						Qvalue
5) Bromomethane	1.64	94	642	0.254	ug/l	99
6) Chloroethane	1.72	64	12162	3.054	ug/l	98
11) Tert butyl alcohol	3.02	59	8960	8.171	ug/l #	81
12) 1,1-Dichloroethene	2.38	96	7248	2.437	ug/l	87
13) Acrolein	2.28	56	187	0.240	ug/l #	10
16) Acetone	2.45	43	2053	0.897	ug/l	94
18) Methyl Acetate	2.78	43	1373	0.237	ug/l	98
20) Methylene Chloride	2.85	84	1319	Below Cal	#	88
24) 1,1-Dichloroethane	3.70	63	256952	39.413	ug/l	99
29) Tetrahydrofuran	5.18	42	609	0.290	ug/l #	37
32) 1,1,1-Trichloroethane	5.49	97	6064	1.205	ug/l #	50
36) 1,1-Dichloropropene	5.67	75	19539	4.039	ug/l #	45
38) Carbon Tetrachloride	5.65	117	25250	4.965	ug/l #	18
56) Ethyl methacrylate	9.19	69	20	2.865	ug/l #	1
68) m/p-Xylenes	10.36	106	1534	0.238	ug/l	99
70) Styrene	10.72	104	86	2.148	ug/l #	92
74) N-amyl acetate	10.90	43	169	1.769	ug/l #	53
76) 1,2,3-Trichloropropane	11.14	75	106466	20.857	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	762	Below Cal		84
81) trans-1,4-Dichloro-2-buten	11.14	75	106466	56.611	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	2181	Below Cal		96
93) 1,2,4-Trichlorobenzene	13.65	180	1719	0.301	ug/l	99
95) Naphthalene	13.83	128	1060	0.775	ug/l #	77

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

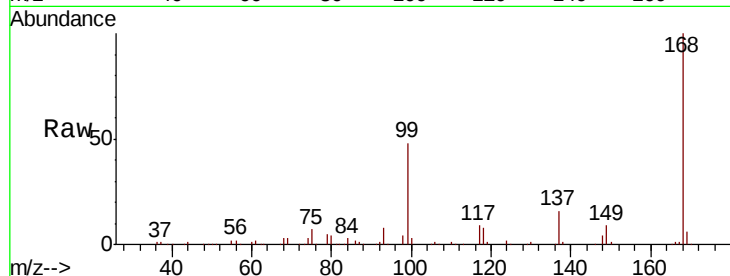
SA-TW508-3337DL

Tot Ion:168 Resp: 274533

Ion Ratio Lower Upper

168 100

99 48.1 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

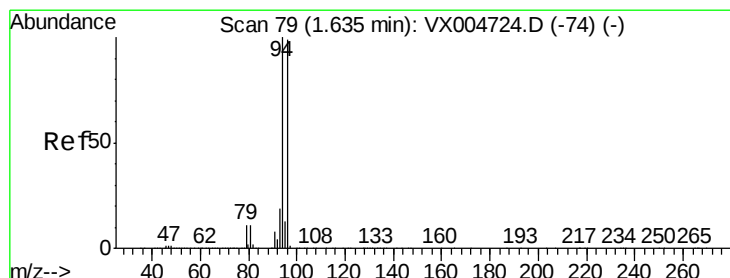
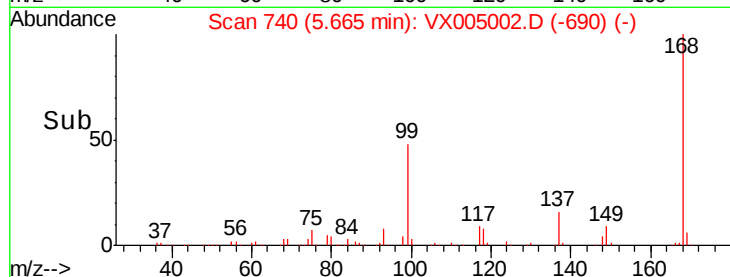
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.254 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.00 min

Lab File: VX005002.D

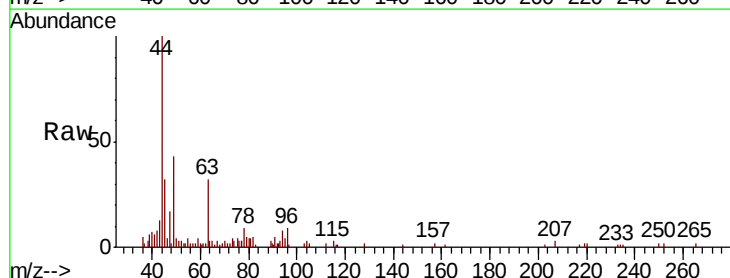
Acq: 04 Oct 2018 06:54

Tgt Ion: 94 Resp: 642

Ion Ratio Lower Upper

94 100

96 100.0 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

300

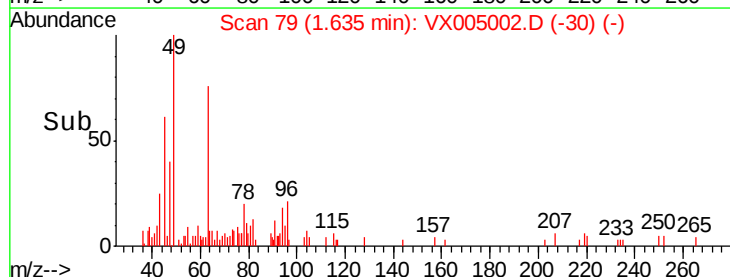
200

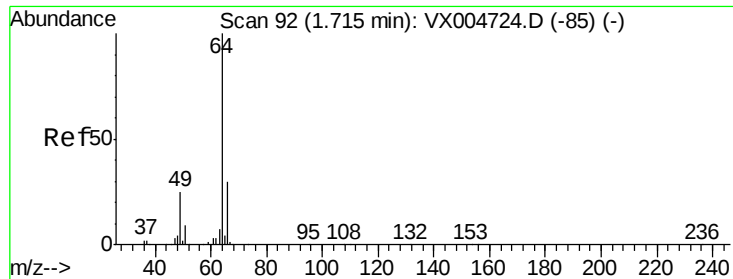
100

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 3.054 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

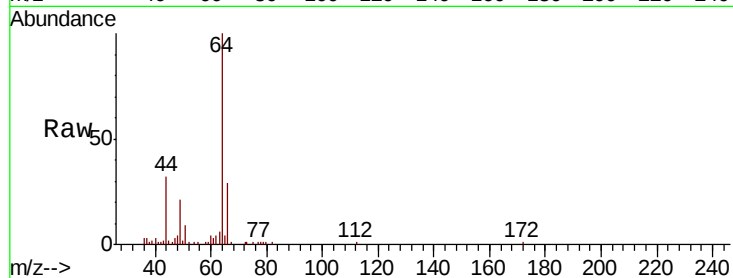
SA-TW508-3337DL

Tot Ion: 64 Resp: 12162

Ion Ratio Lower Upper

64 100

66 28.8 23.8 35.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

10000

8000

6000

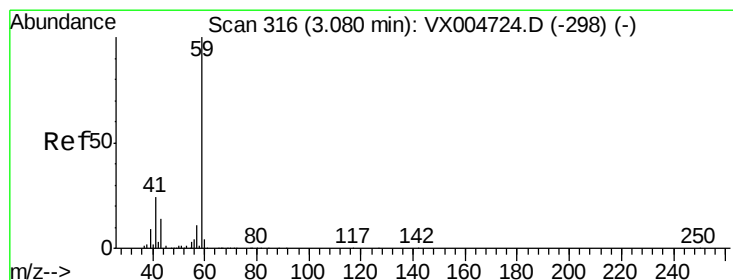
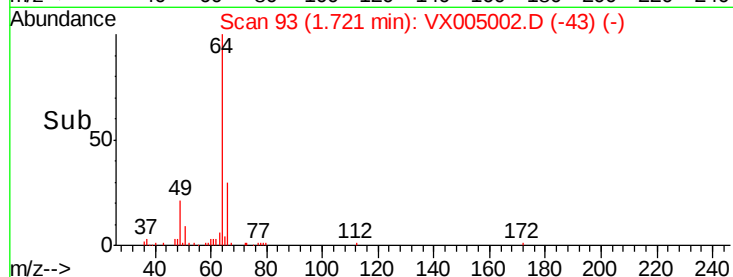
4000

2000

0

Time-->

1.65 1.70 1.75 1.80



#11

Tert butyl alcohol

Concen: 8.171 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005002.D

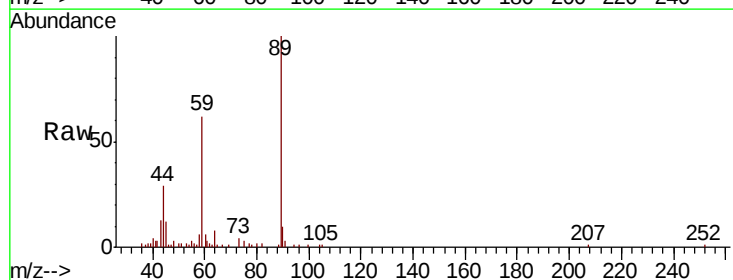
Acq: 04 Oct 2018 06:54

Tgt Ion: 59 Resp: 8960

Ion Ratio Lower Upper

59 100

57 3.5 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.02

4000

3000

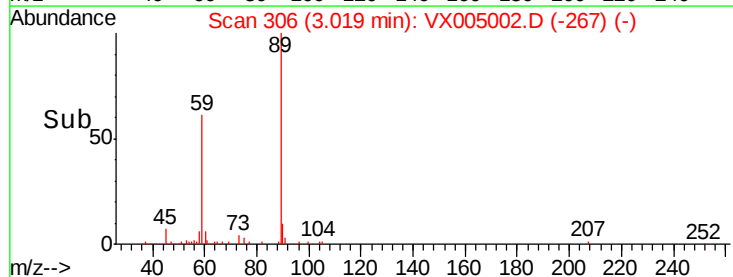
2000

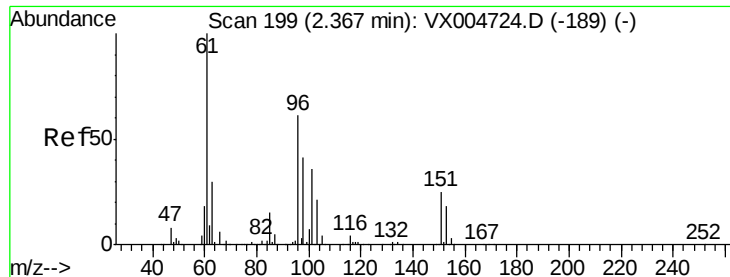
1000

0

Time-->

2.90 3.00 3.10





#12

1,1-Dichloroethene

Concen: 2.437 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-3337DL

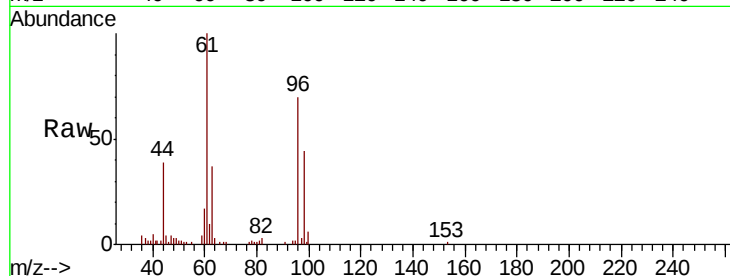
Tot Ion: 96 Resp: 7248

Ion Ratio Lower Upper

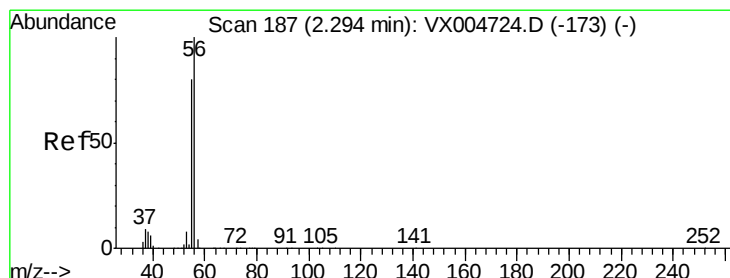
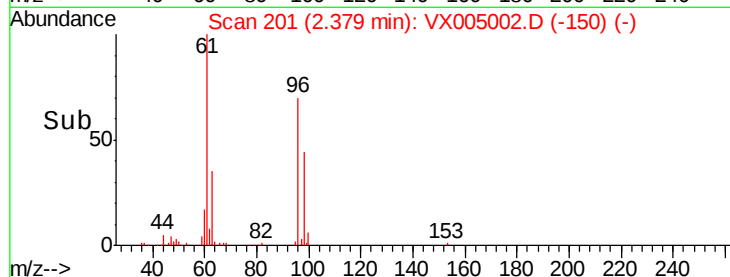
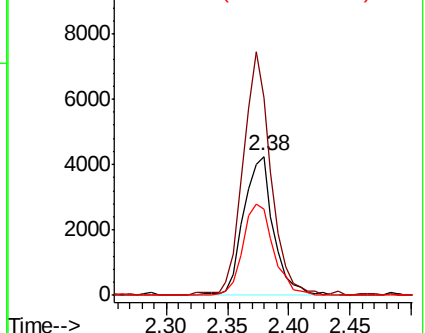
96 100

61 142.3 130.2 195.4

98 62.2 53.4 80.0



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 0.240 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX005002.D

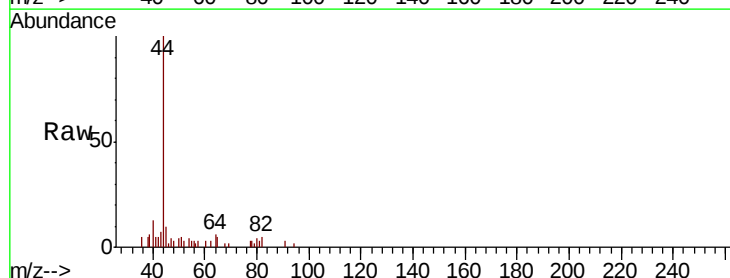
Acq: 04 Oct 2018 06:54

Tgt Ion: 56 Resp: 187

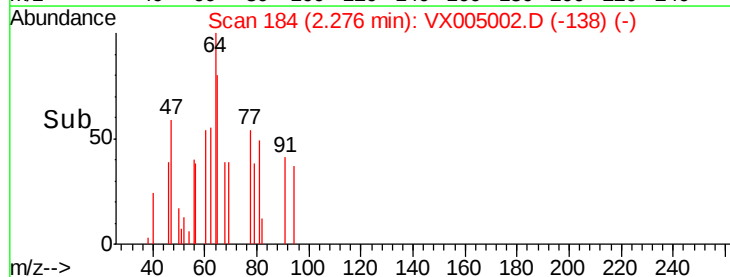
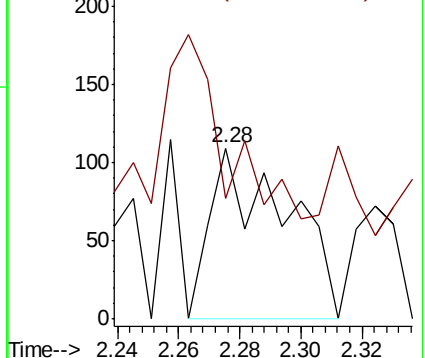
Ion Ratio Lower Upper

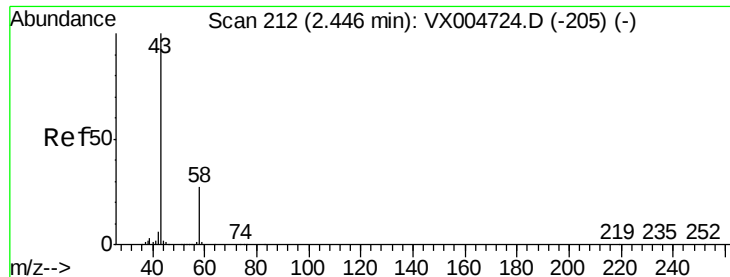
56 100

55 0.0 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.897 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

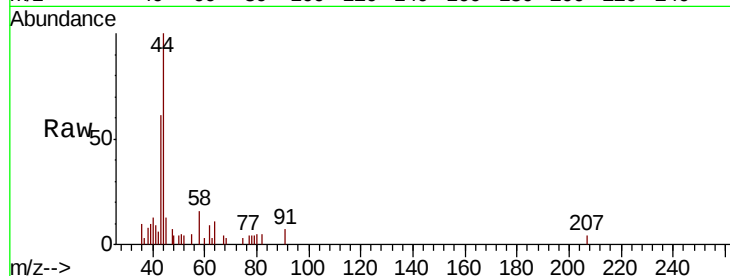
SA-TW508-3337DL

Tot Ion: 43 Resp: 2053

Ion Ratio Lower Upper

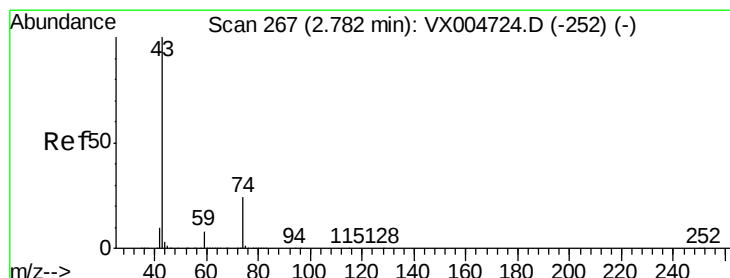
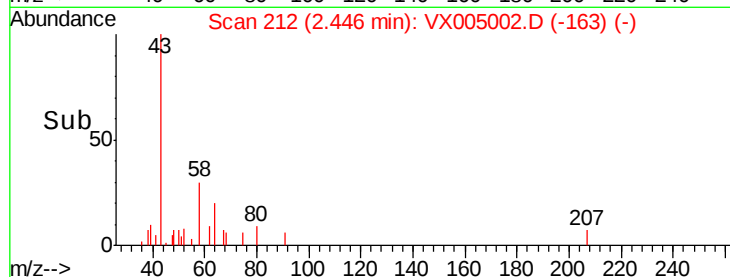
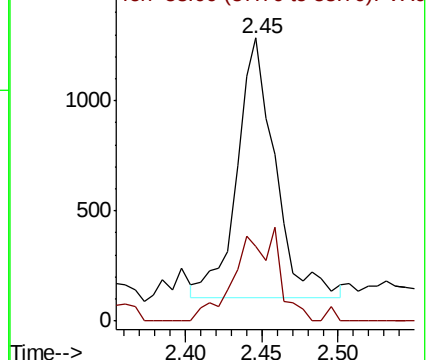
43 100

58 30.1 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.237 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005002.D

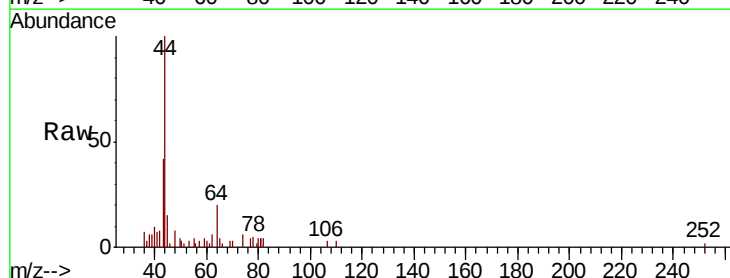
Acq: 04 Oct 2018 06:54

Tgt Ion: 43 Resp: 1373

Ion Ratio Lower Upper

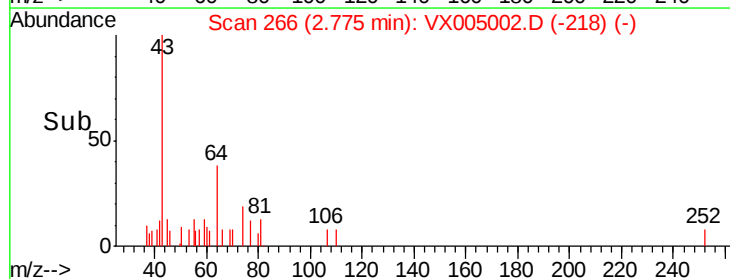
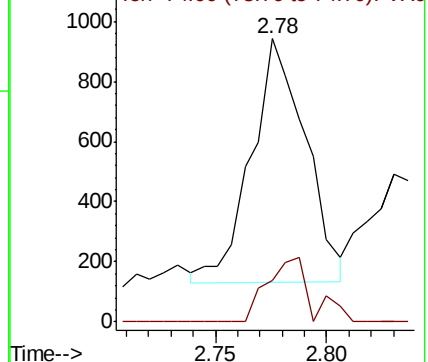
43 100

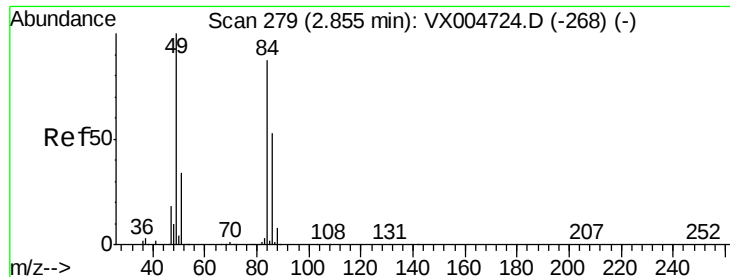
74 21.4 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-3337DL

Tot Ion: 84 Resp: 1319

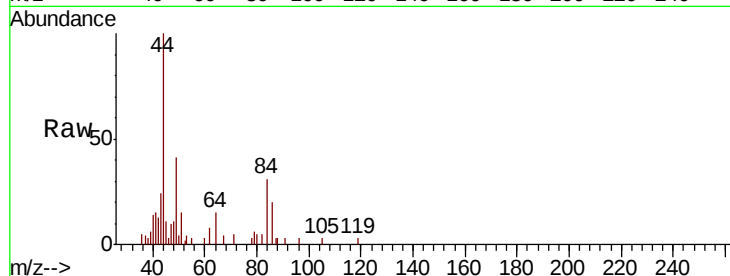
Ion Ratio Lower Upper

84 100

49 132.7 92.3 138.5

51 48.9 31.8 47.6#

86 63.6 48.5 72.7

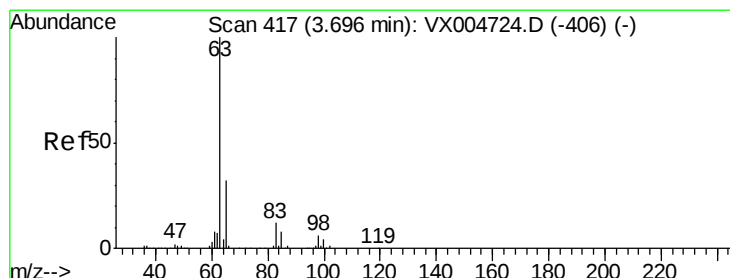
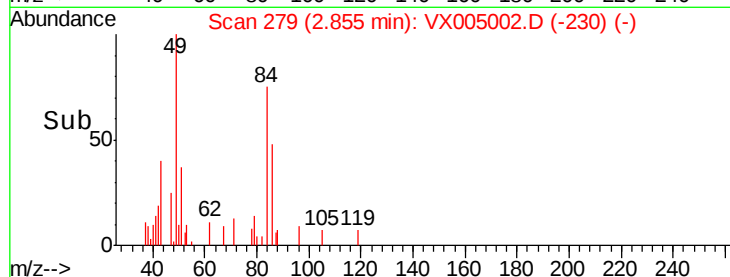
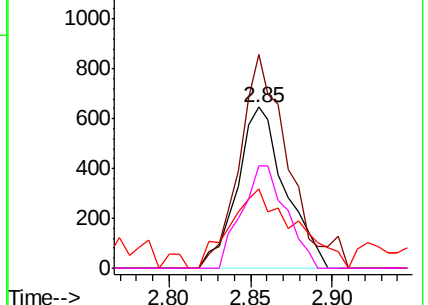


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#24

1,1-Dichloroethane

Concen: 39.413 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

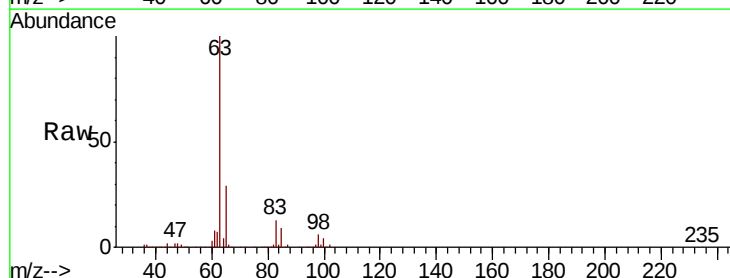
Tgt Ion: 63 Resp: 256952

Ion Ratio Lower Upper

63 100

98 5.9 3.0 9.2

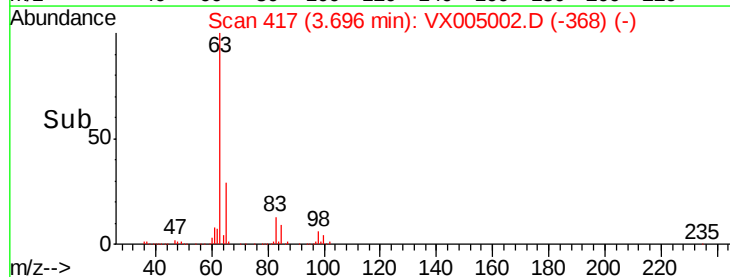
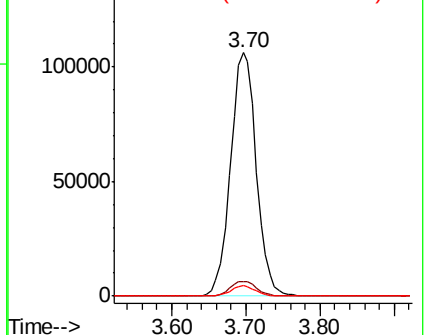
100 4.1 2.0 5.8

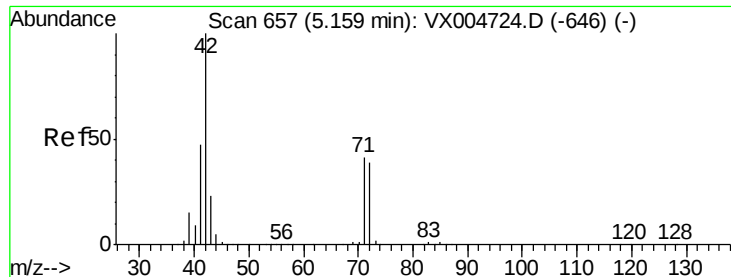


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#29

Tetrahydrofuran

Concen: 0.290 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-3337DL

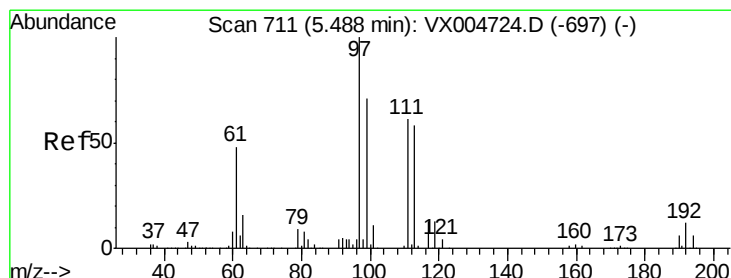
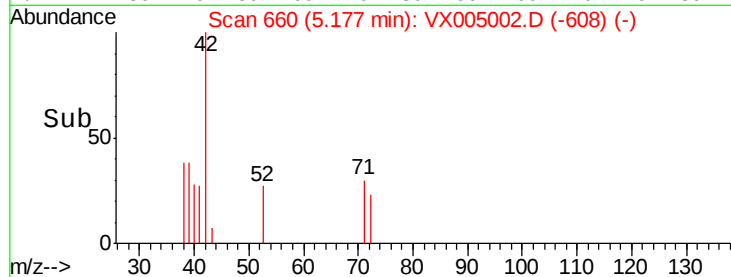
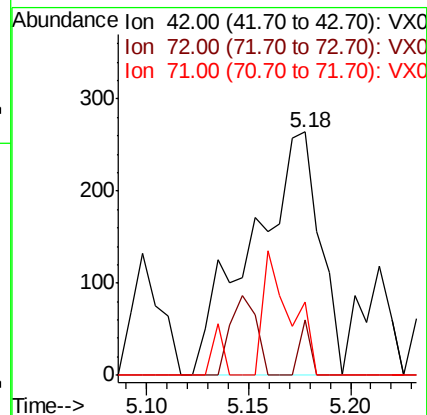
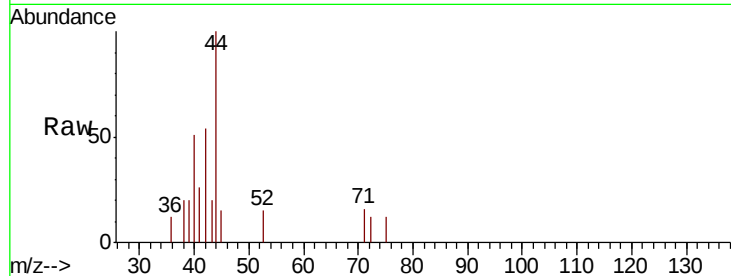
Tot Ion: 42 Resp: 609

Ion Ratio Lower Upper

42 100

72 3.6 33.7 50.5#

71 0.0 32.2 48.4#



#32

1,1,1-Trichloroethane

Concen: 1.205 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.01 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

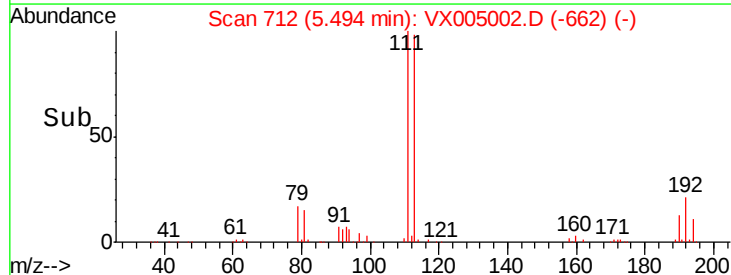
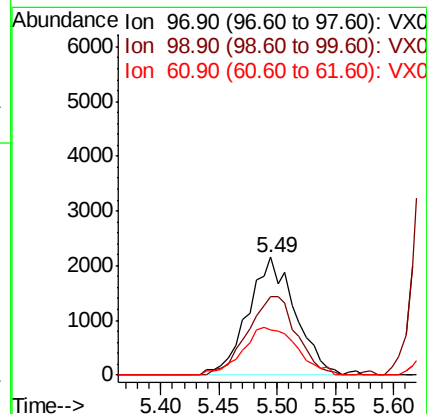
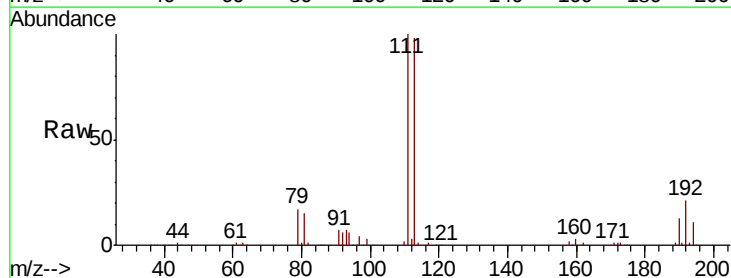
Tgt Ion: 97 Resp: 6064

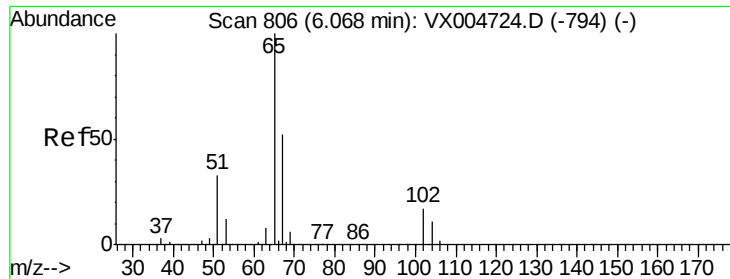
Ion Ratio Lower Upper

97 100

99 0.0 54.6 82.0#

61 46.5 37.5 56.3

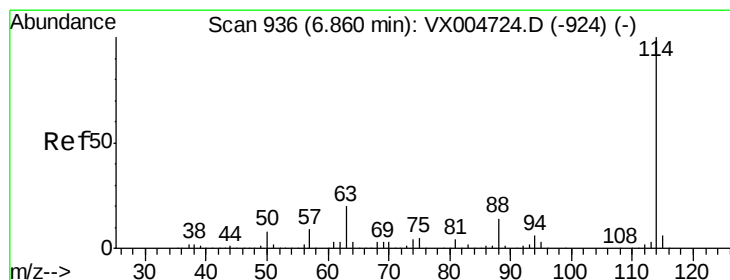
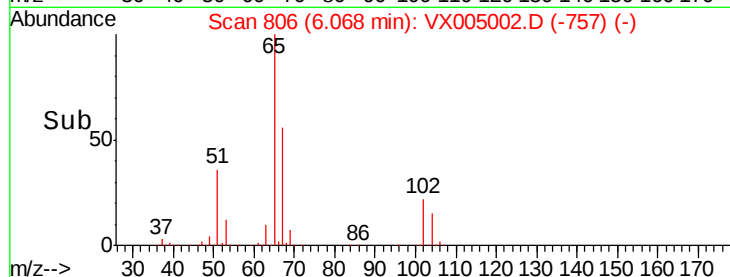
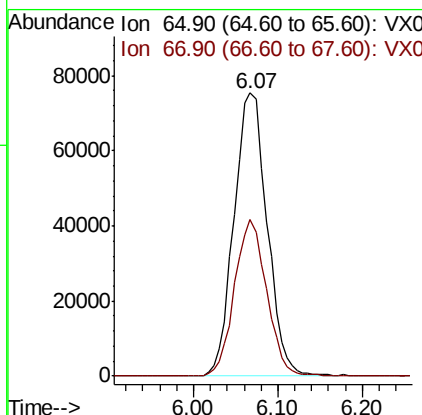
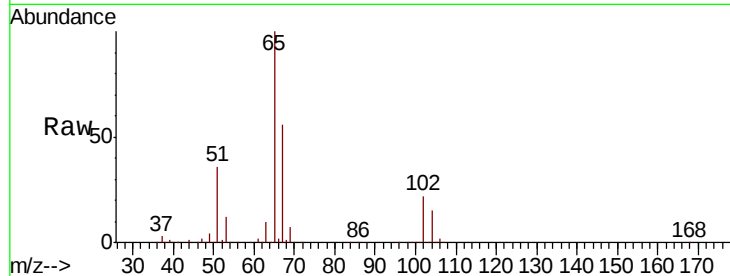




#33
 1,2-Dichloroethane-d4
 Concen: 51.164 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX005002.D
 Acq: 04 Oct 2018 06:54

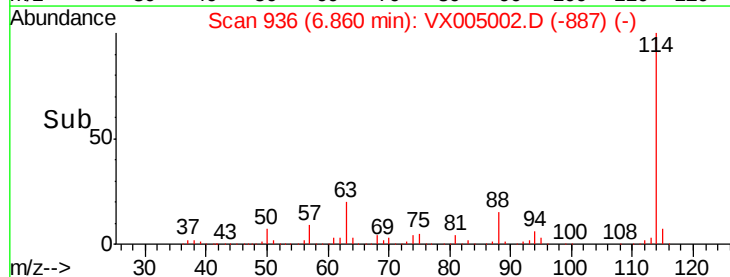
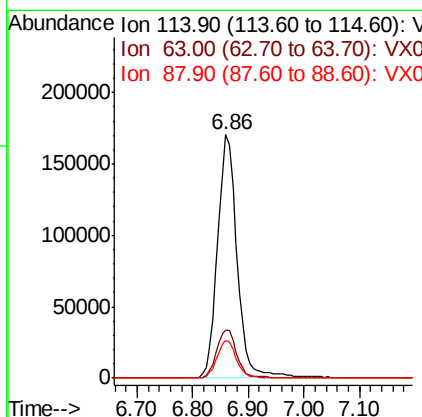
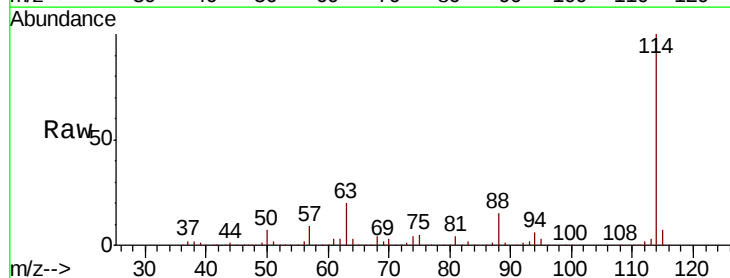
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW508-3337DL

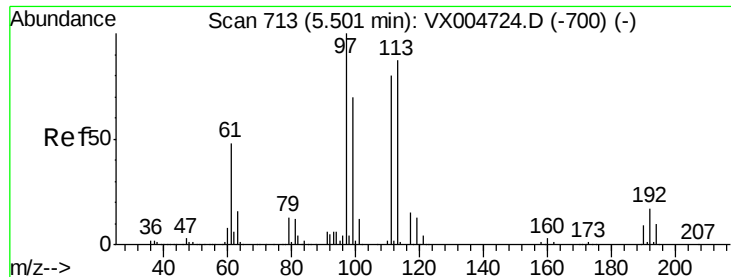
Tot Ion: 65 Resp: 200650
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005002.D
 Acq: 04 Oct 2018 06:54

Tgt Ion: 114 Resp: 418381
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.8
 88 15.4 0.0 27.0

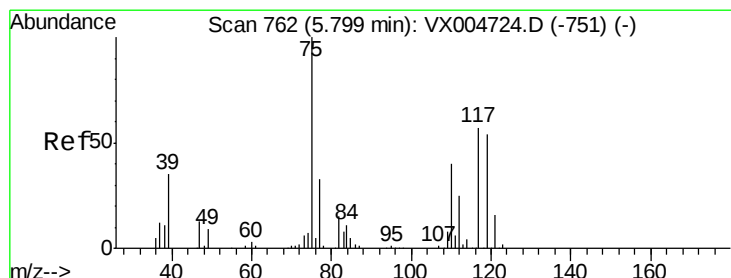
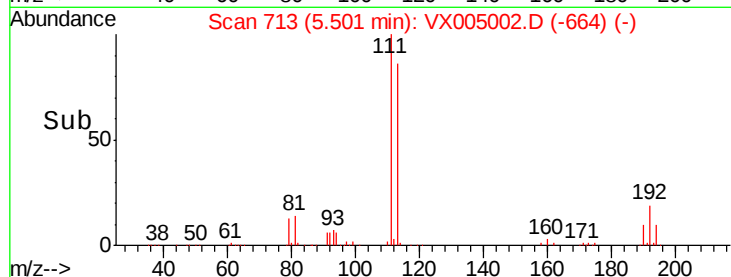
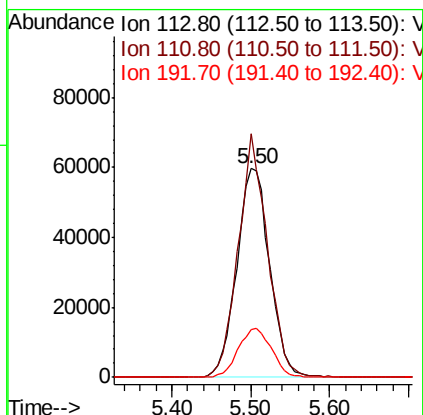
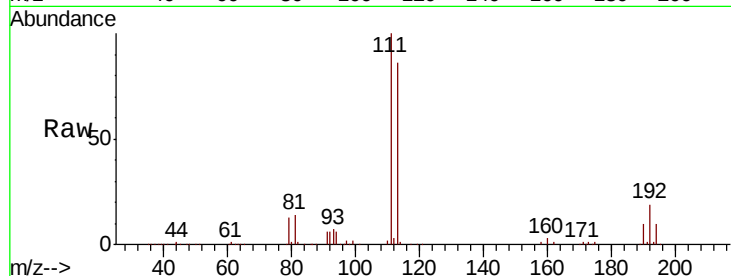




#35
 Dibromofluoromethane
 Concen: 48.739 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005002.D
 Acq: 04 Oct 2018 06:54

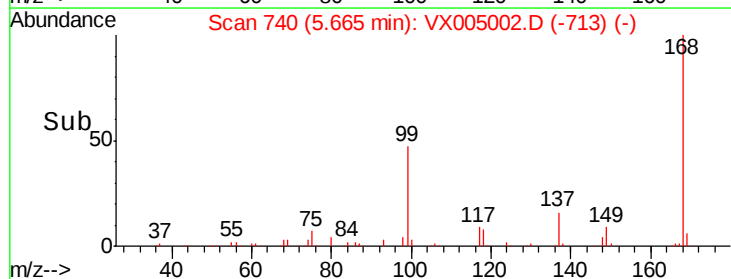
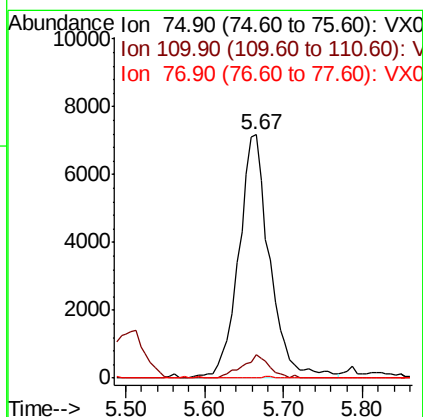
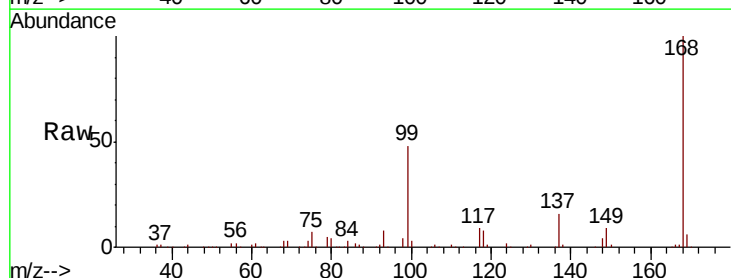
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW508-3337DL

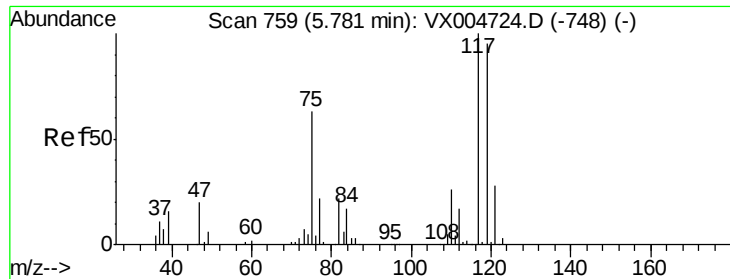
Tot Ion:113 Resp: 172819
 Ion Ratio Lower Upper
 113 100
 111 103.7 77.0 115.4
 192 23.8 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 4.039 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005002.D
 Acq: 04 Oct 2018 06:54

Tgt Ion: 75 Resp: 19539
 Ion Ratio Lower Upper
 75 100
 110 8.5 20.0 59.9#
 77 0.2 27.1 40.7#





#38

Carbon Tetrachloride

Concen: 4.965 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-3337DL

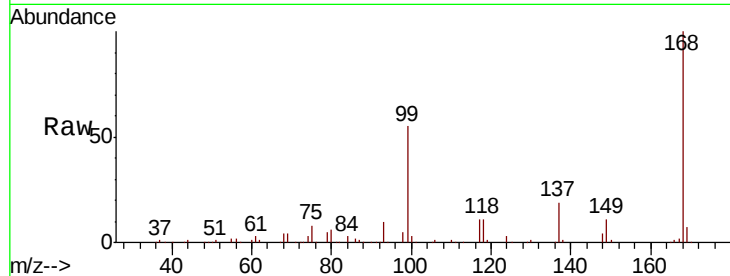
Tot Ion:117 Resp: 25250

Ion Ratio Lower Upper

117 100

119 6.2 75.2 112.8#

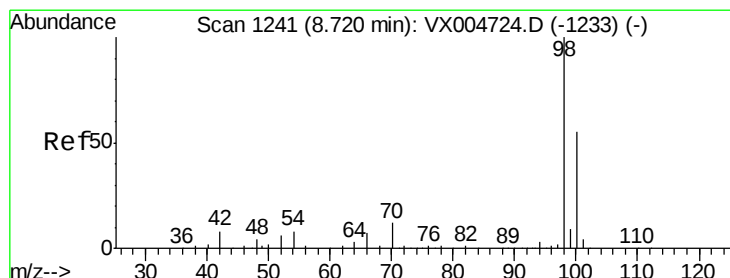
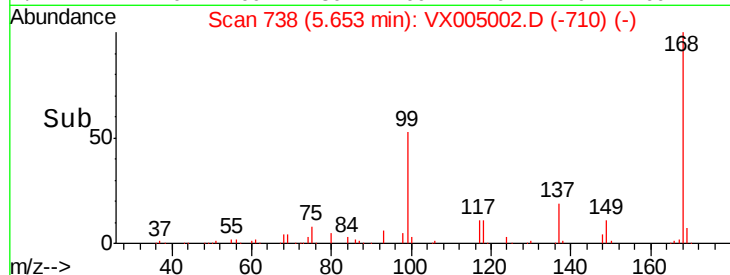
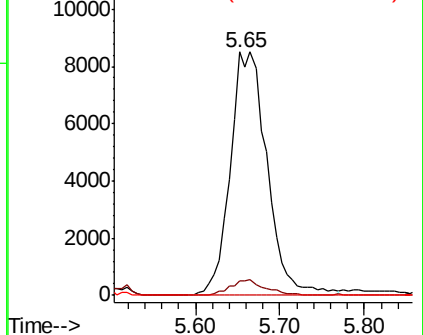
121 0.0 22.5 33.7#



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: 50.556 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX005002.D

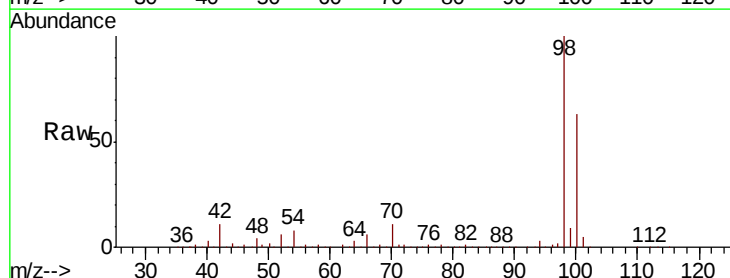
Acq: 04 Oct 2018 06:54

Tgt Ion: 98 Resp: 595957

Ion Ratio Lower Upper

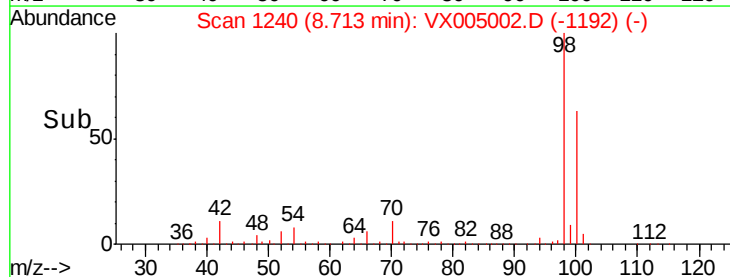
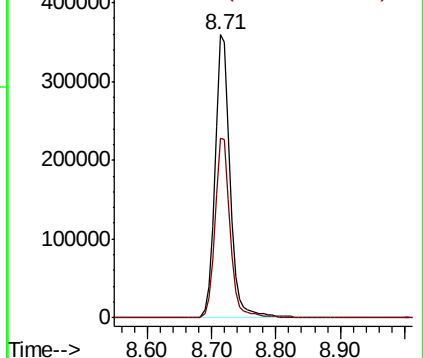
98 100

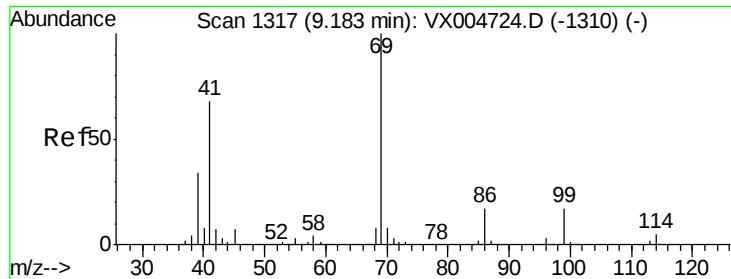
100 63.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 2.865 ug/l

RT: 9.19 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-3337DL

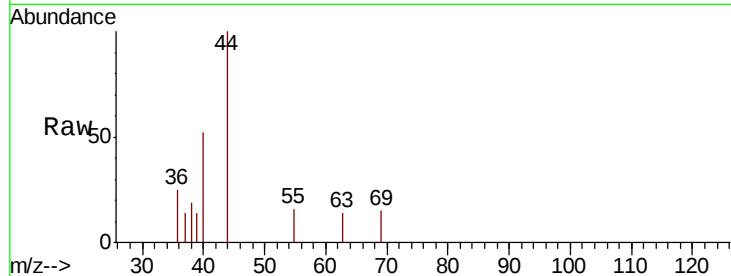
Tot Ion: 69 Resp: 20

Ion Ratio Lower Upper

69 100

41 440.0 56.9 85.3#

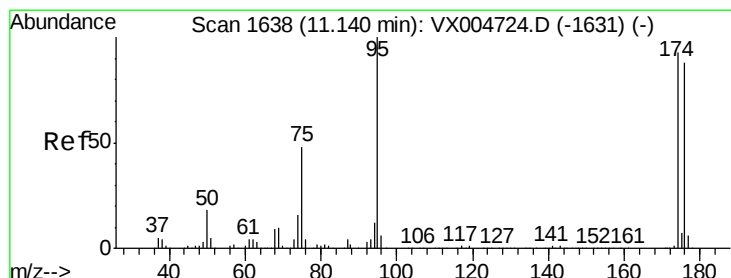
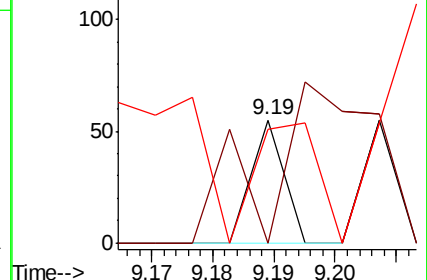
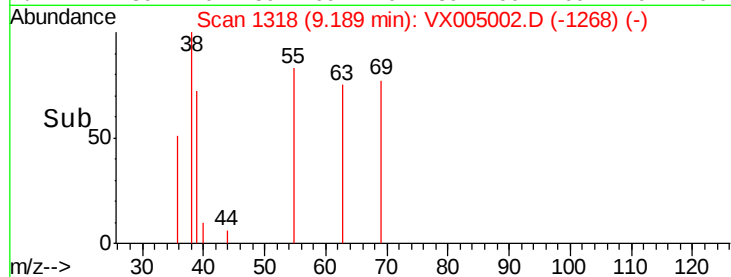
39 190.0 28.4 42.6#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#62

4-Bromofluorobenzene

Concen: 51.453 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

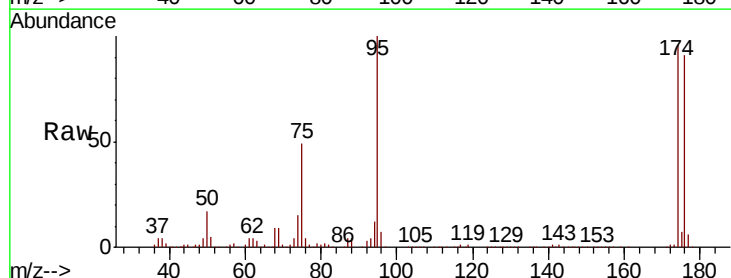
Tgt Ion: 95 Resp: 218508

Ion Ratio Lower Upper

95 100

174 92.0 0.0 185.0

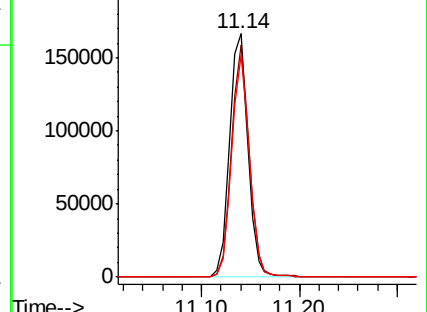
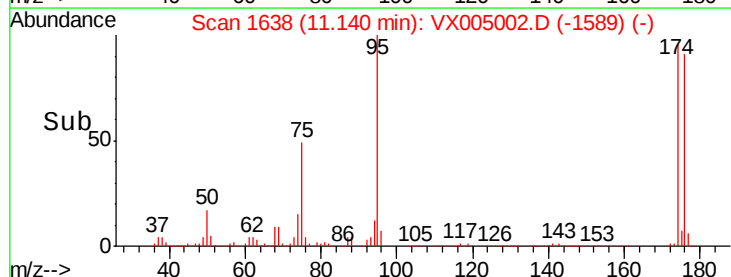
176 88.3 0.0 180.2

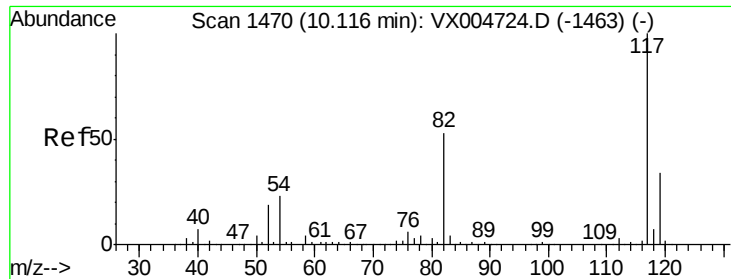


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

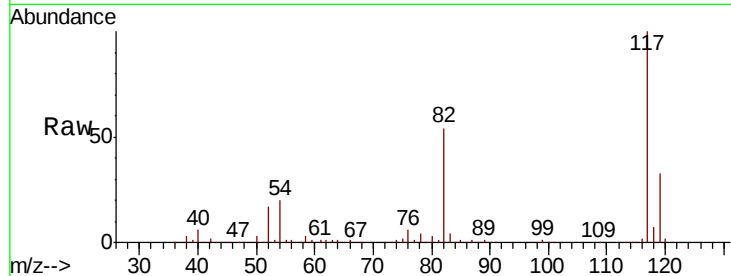




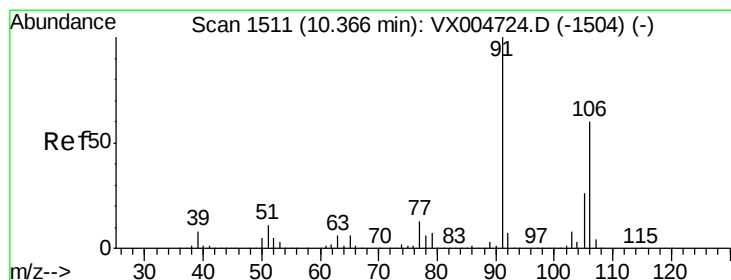
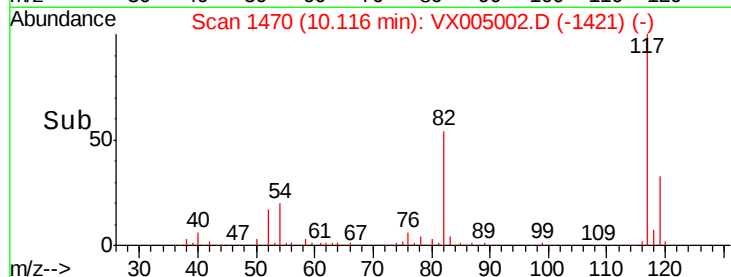
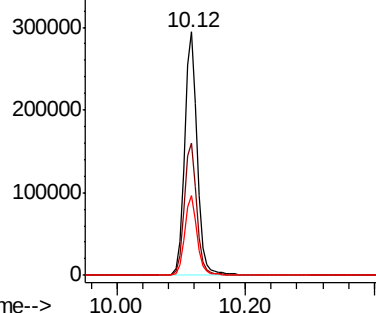
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005002.D
Acq: 04 Oct 2018 06:54

Instrument :
MSVOA_X
ClientSampleId :
SA-TW508-3337DL

Tot Ion:117 Resp: 404979
Ion Ratio Lower Upper
117 100
82 54.3 42.2 63.4
119 32.9 27.4 41.0

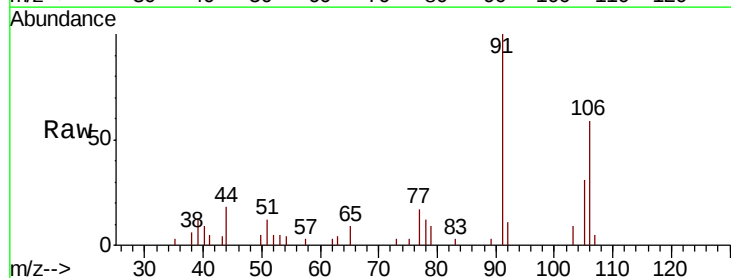


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

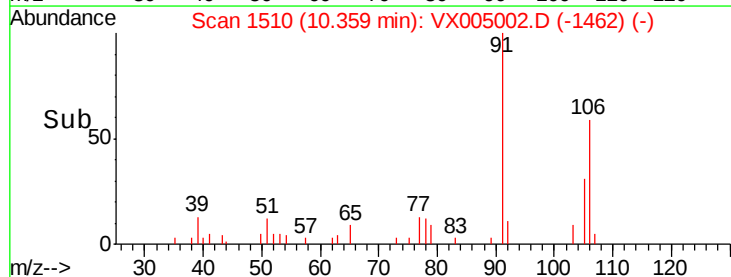
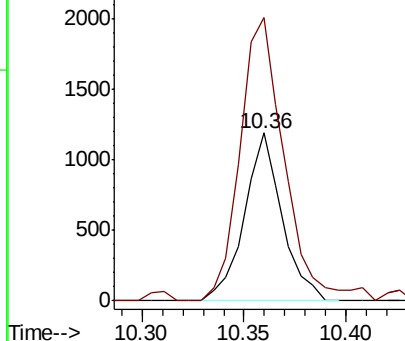


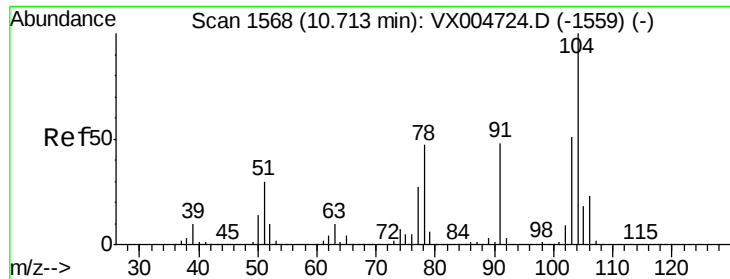
#68
m/p-Xylenes
Concen: 0.238 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.01 min
Lab File: VX005002.D
Acq: 04 Oct 2018 06:54

Tgt Ion:106 Resp: 1534
Ion Ratio Lower Upper
106 100
91 197.7 157.5 236.3



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#70

Stvrene

Concen: 2.148 ug/l

RT: 10.72 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-3337DL

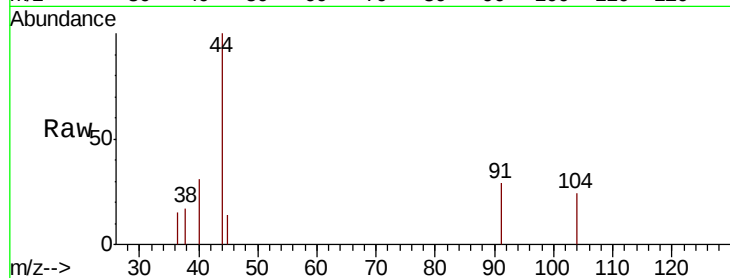
Tot Ion:104 Resp: 86

Ion Ratio Lower Upper

104 100

78 60.5 40.0 60.0#

103 57.0 44.3 66.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V

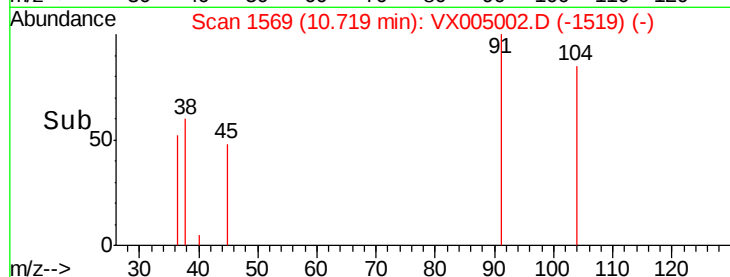
150

100

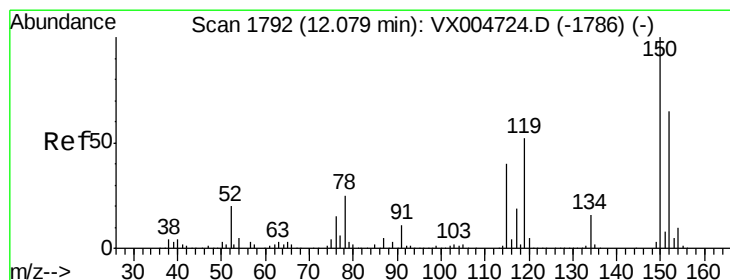
50

0

10.68 10.70 10.72 10.74



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

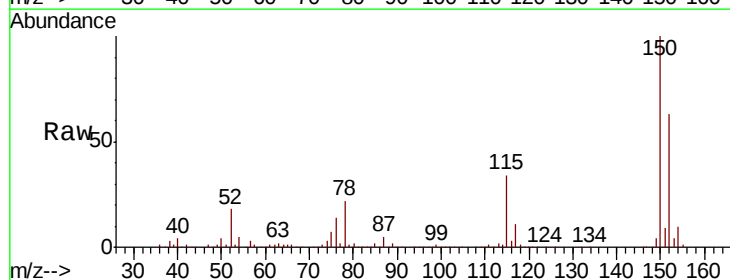
Tgt Ion:152 Resp: 227743

Ion Ratio Lower Upper

152 100

115 55.4 40.2 120.6

150 157.0 0.0 351.0



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

400000

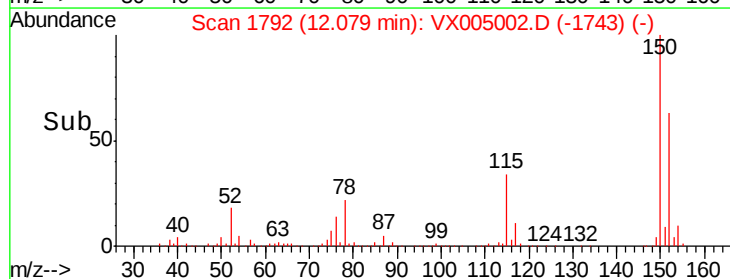
300000

200000

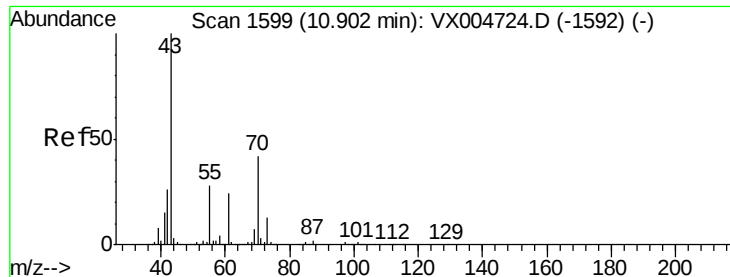
100000

0

12.00 12.10 12.20



Time-->



#74

N-amvl acetate

Concen: 1.769 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-3337DL

Tot Ion: 43 Resp: 169

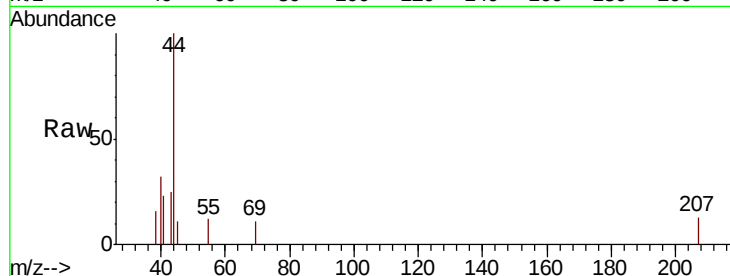
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 35.5 21.6 32.4#

61 0.0 19.1 28.7#

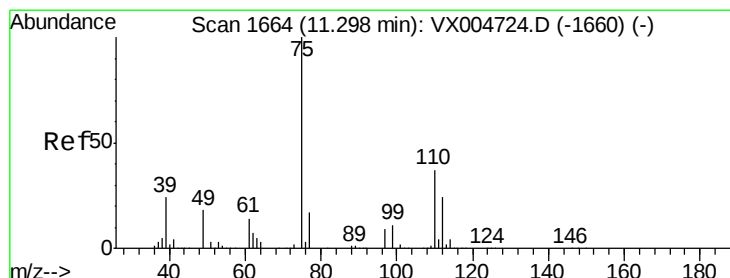
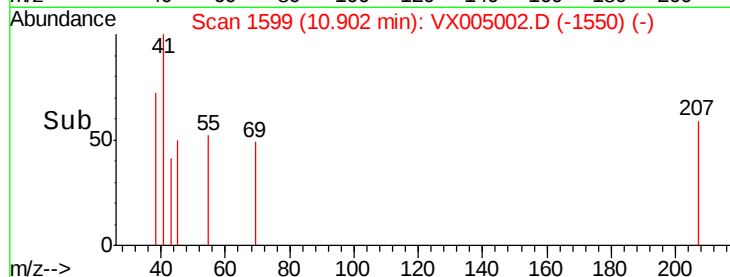
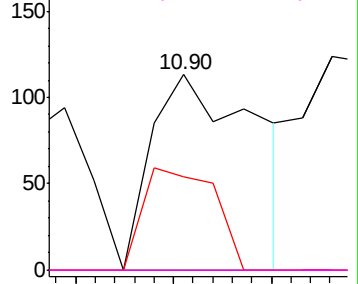


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.857 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005002.D

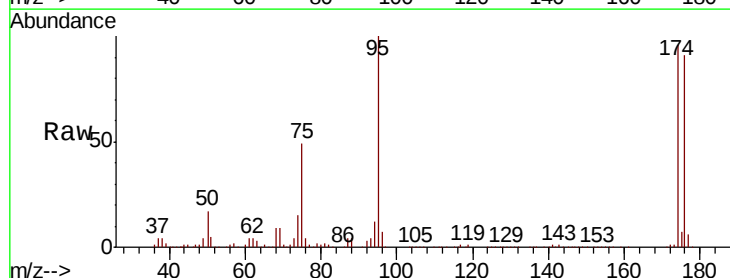
Acq: 04 Oct 2018 06:54

Tgt Ion: 75 Resp: 106466

Ion Ratio Lower Upper

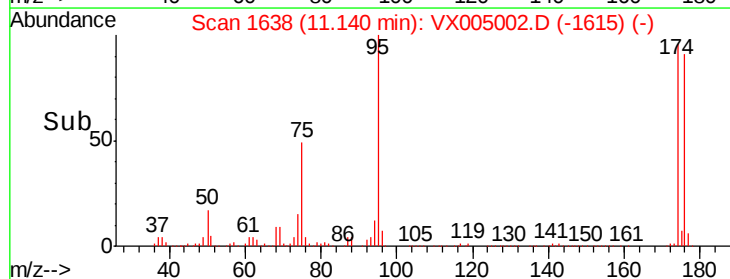
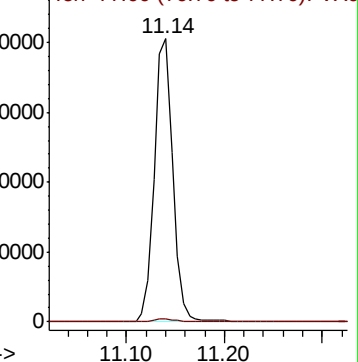
75 100

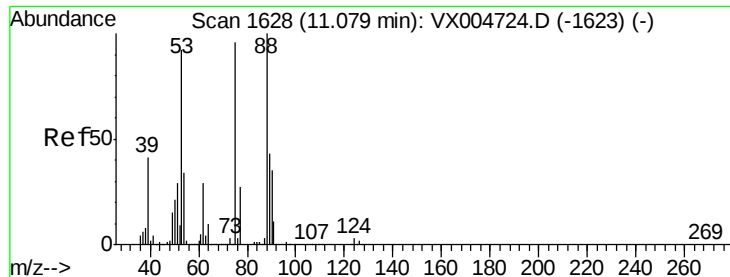
77 1.4 21.4 64.3#



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: 56.611 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-3337DL

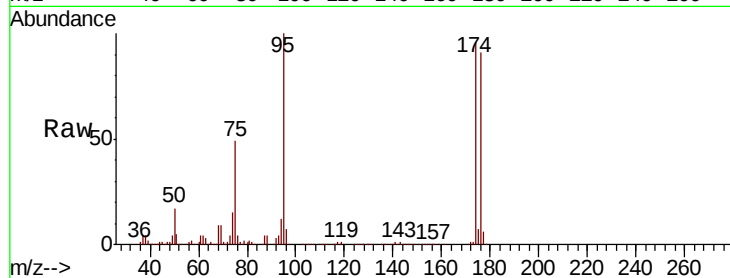
Tot Ion: 75 Resp: 106466

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.4#

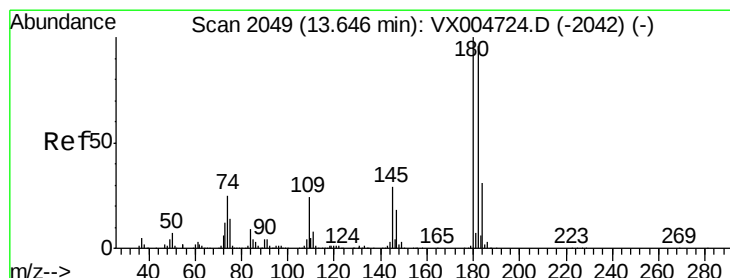
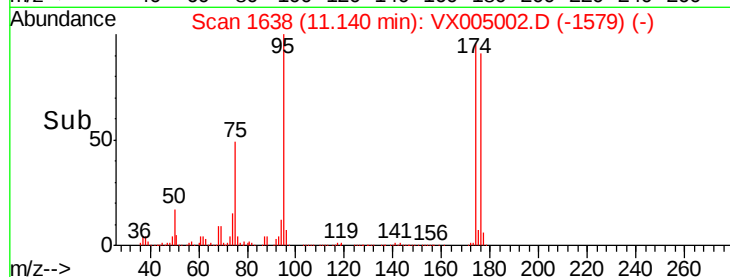
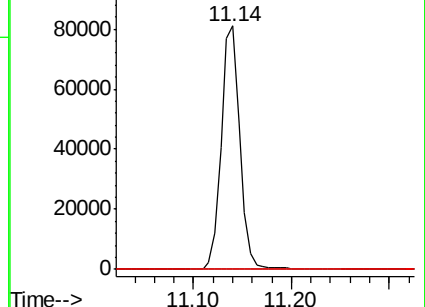
89 0.1 37.1 55.7#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.301 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

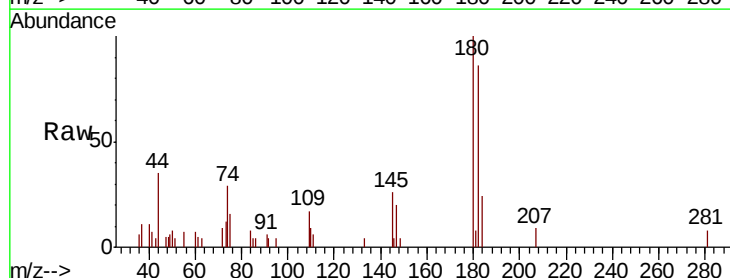
Tgt Ion:180 Resp: 1719

Ion Ratio Lower Upper

180 100

182 94.8 47.8 143.4

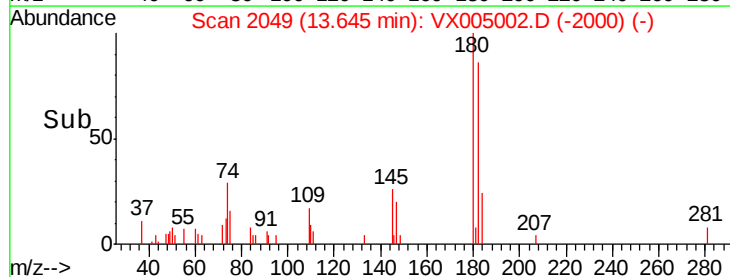
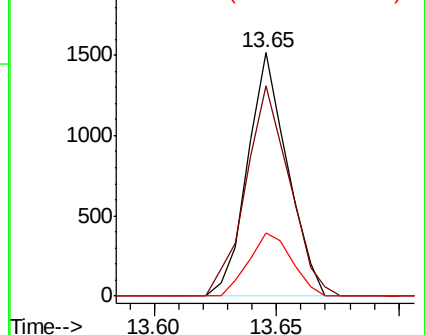
145 27.7 14.1 42.4

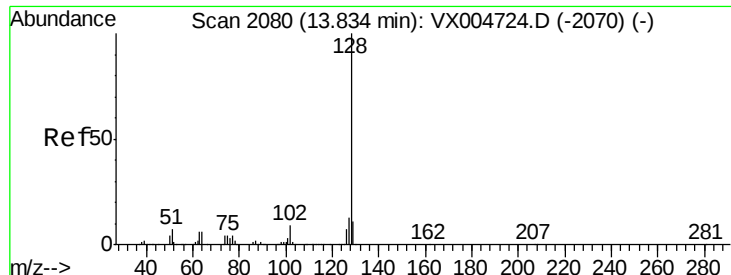


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.775 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005002.D

Acq: 04 Oct 2018 06:54

Instrument :

MSVOA_X

ClientSampleId :

SA-TW508-3337DL

Tot Ion:128 Resp: 1060

Ion Ratio Lower Upper

128 100

127 20.6 10.4 15.6#

129 0.0 8.7 13.1#

