

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032619\
 Data File : VX008455.D
 Acq On : 26 Mar 2019 14:30
 Operator : JC/SP
 Sample : K2088-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-2019.03.21

Quant Time: Mar 27 01:51:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	224958	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	382231	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	322323	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	129724	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	160844	47.16	ug/l	0.00
Spiked Amount			Recovery	=	94.32%	
35) Dibromofluoromethane	5.49	113	118543	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	
50) Toluene-d8	8.71	98	477300	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
62) 4-Bromofluorobenzene	11.13	95	157850	42.74	ug/l	0.00
Spiked Amount			Recovery	=	85.48%	

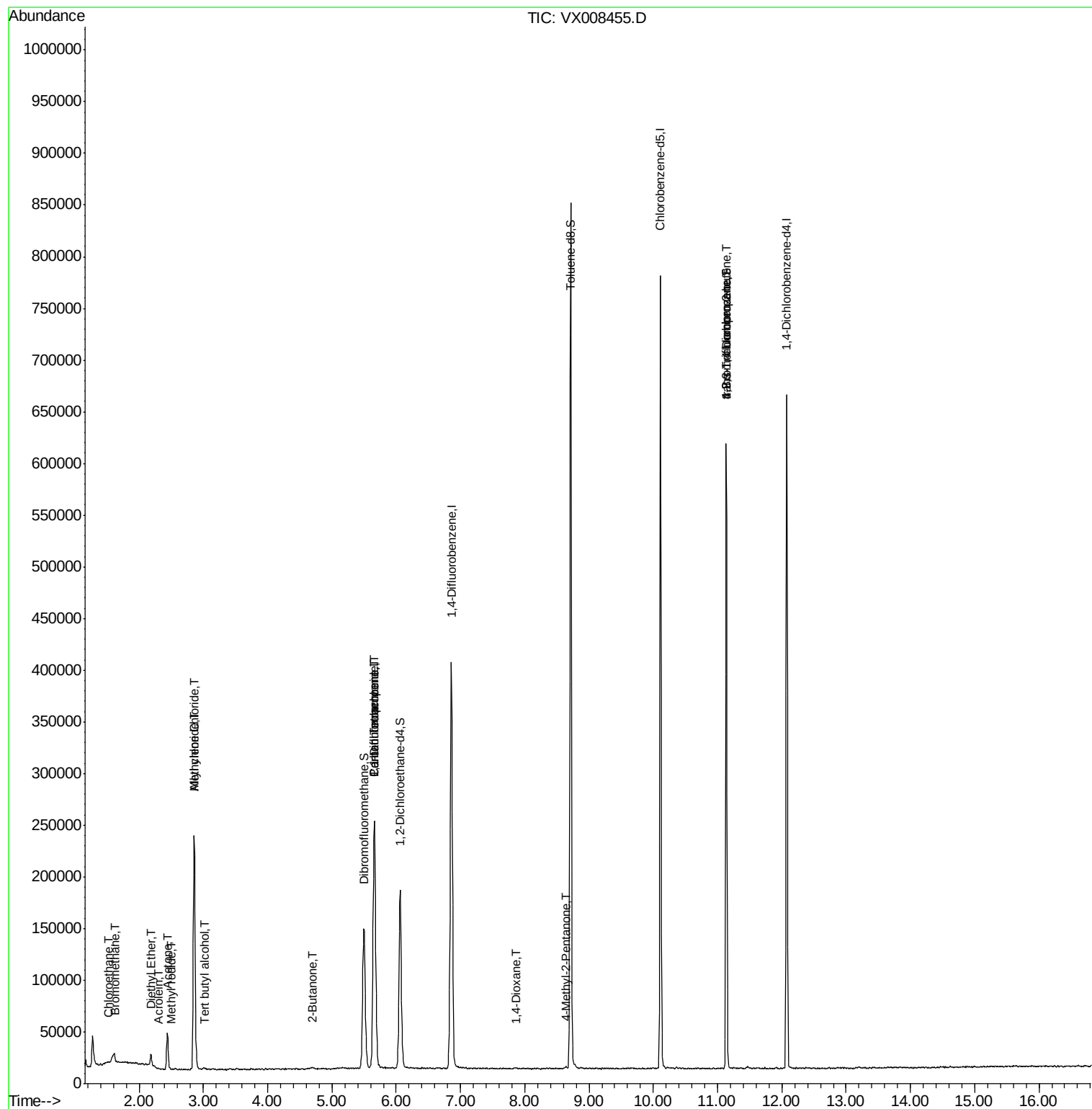
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	361	Below Cal	#	76
5) Bromomethane	1.64	94	183	1.899	ug/l #	6
6) Chloroethane	1.53	64	5247	2.392	ug/l #	47
8) Diethyl Ether	2.18	74	3774	1.902	ug/l	98
10) Methyl Iodide	2.50	142	47	4.147	ug/l #	42
11) Tert butyl alcohol	3.02	59	797	1.055	ug/l	98
13) Acrolein	2.30	56	148	0.270	ug/l #	32
14) Allyl chloride	2.85	41	5196	0.901	ug/l #	30
16) Acetone	2.44	43	38169	21.414	ug/l	100
17) Carbon Disulfide	2.57	76	1020	Below Cal	#	81
20) Methylene Chloride	2.85	84	102360	34.994	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	21	Below Cal	#	14
25) 2-Butanone	4.69	43	1940	0.679	ug/l #	77
36) 1,1-Dichloropropene	5.66	75	19254	4.724	ug/l #	52
38) Carbon Tetrachloride	5.66	117	22422	6.593	ug/l #	17
49) 1,4-Dioxane	7.88	88	46	0.548	ug/l #	19
51) 4-Methyl-2-Pentanone	8.64	43	1798	0.328	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	81612	21.162	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	81612	67.778	ug/l #	9

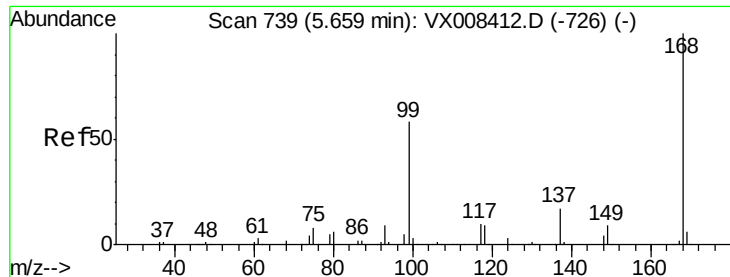
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

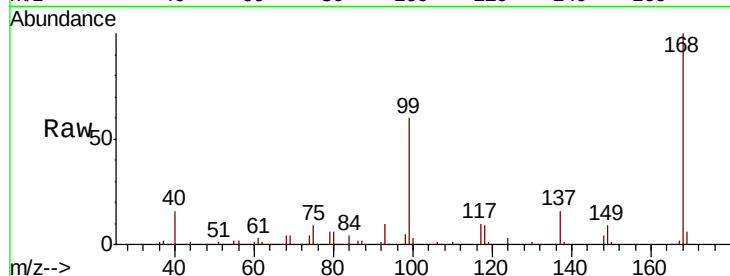
TB-2019.03.21

Tot Ion:168 Resp: 224958

Ion Ratio Lower Upper

168 100

99 59.8 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

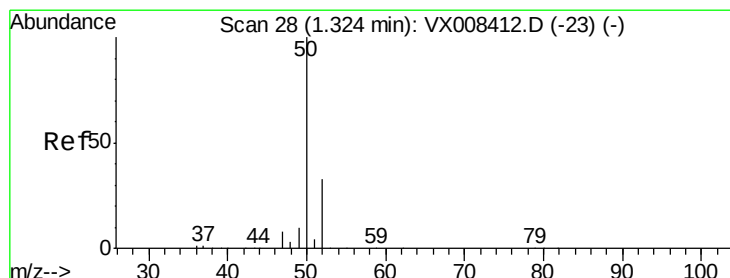
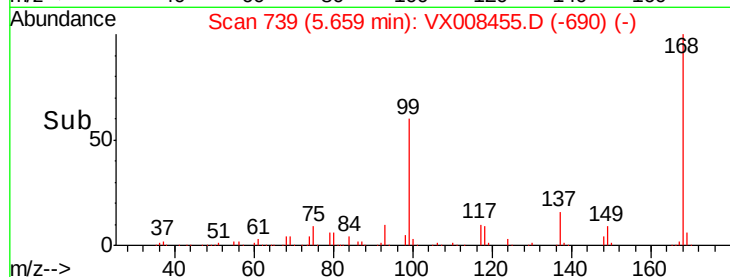
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008455.D

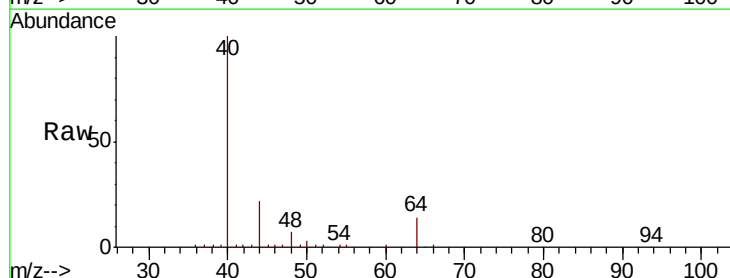
Acq: 26 Mar 2019 14:30

Tgt Ion: 50 Resp: 361

Ion Ratio Lower Upper

50 100

52 46.0 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

500

400

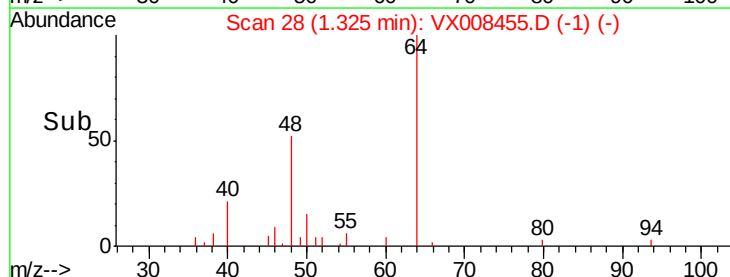
300

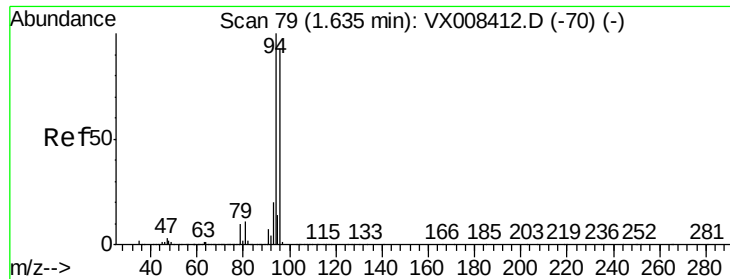
200

100

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 1.899 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

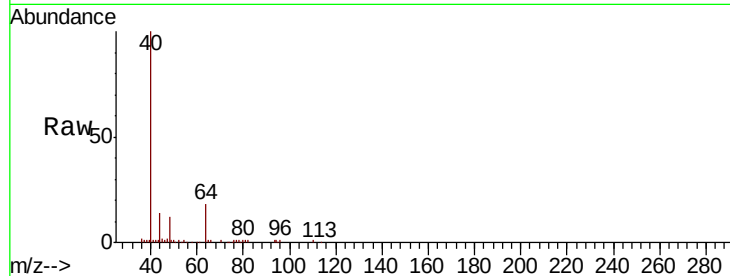
TB-2019.03.21

Tot Ion: 94 Resp: 183

Ion Ratio Lower Upper

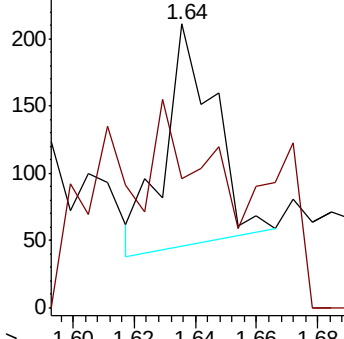
94 100

96 3.3 74.8 112.2#

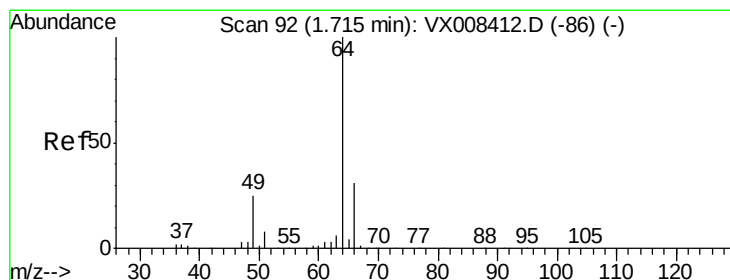
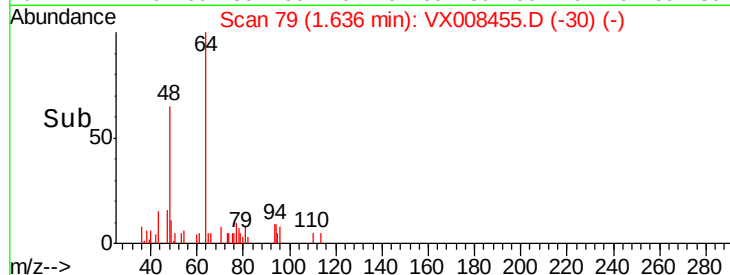


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 2.392 ug/l

RT: 1.53 min Scan# 61

Delta R.T. -0.19 min

Lab File: VX008455.D

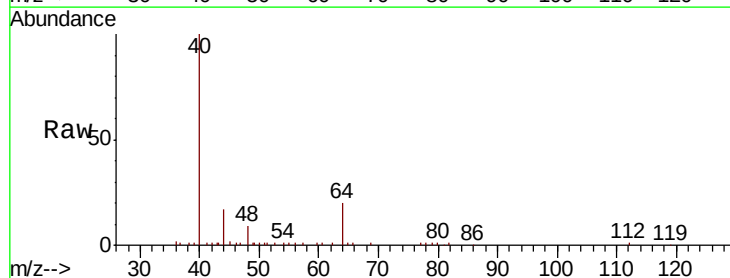
Acq: 26 Mar 2019 14:30

Tgt Ion: 64 Resp: 5247

Ion Ratio Lower Upper

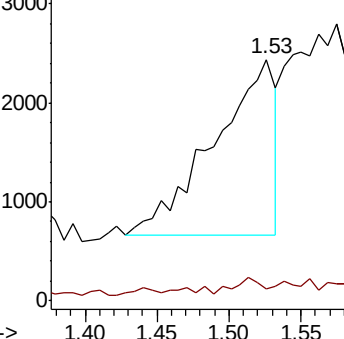
64 100

66 2.4 25.1 37.7#

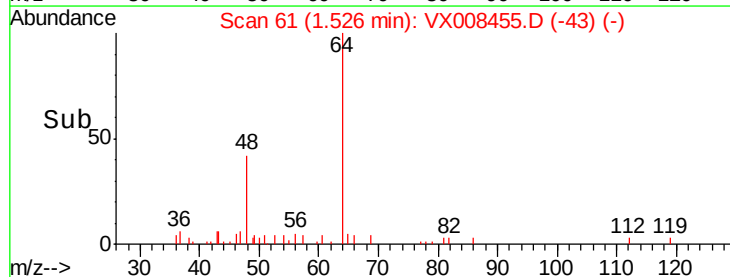


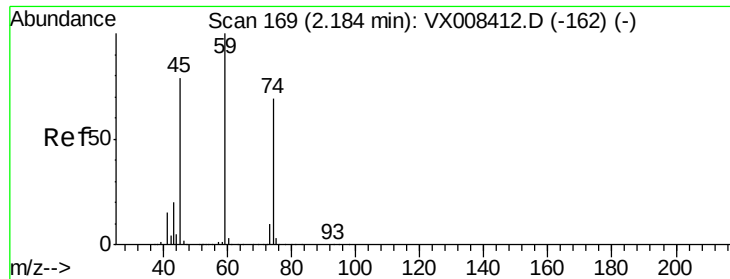
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->





#8

Diethyl Ether

Concen: 1.902 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.00 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

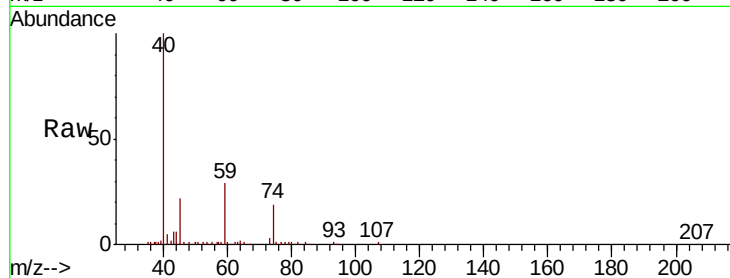
TB-2019.03.21

Tot Ion: 74 Resp: 3774

Ion Ratio Lower Upper

74 100

45 111.2 56.4 169.2



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

218

2500

2000

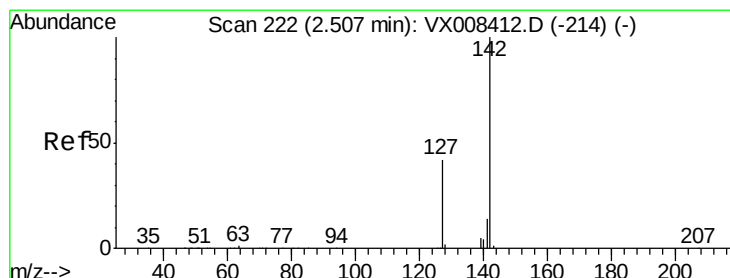
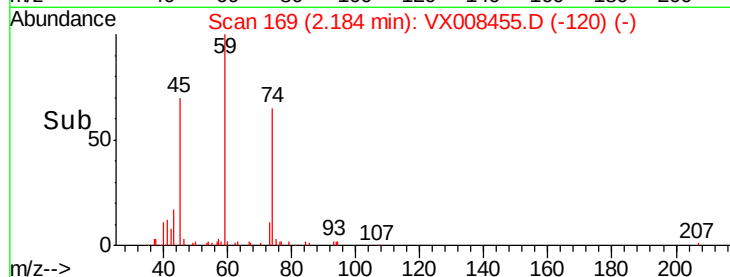
1500

1000

500

0

Time--> 2.10 2.15 2.20 2.25 2.30



#10

Methyl Iodide

Concen: 4.147 ug/l

RT: 2.50 min Scan# 221

Delta R.T. -0.01 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

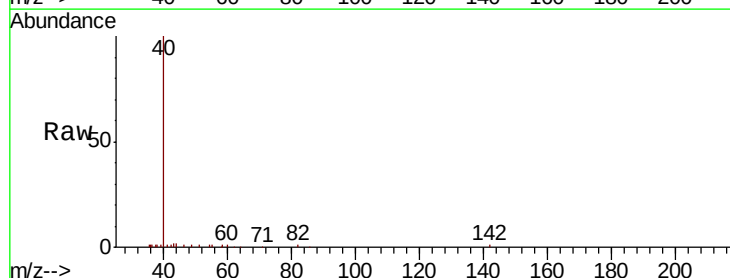
Tgt Ion: 142 Resp: 47

Ion Ratio Lower Upper

142 100

127 0.0 33.6 50.4#

141 0.0 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

80

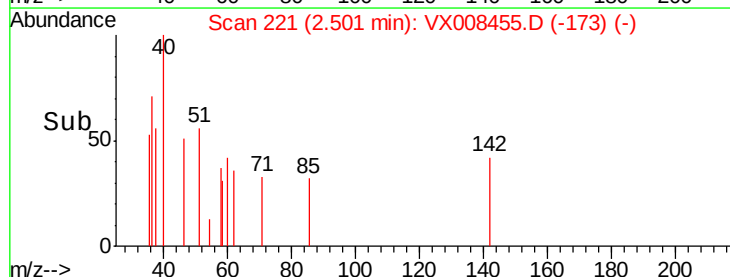
60

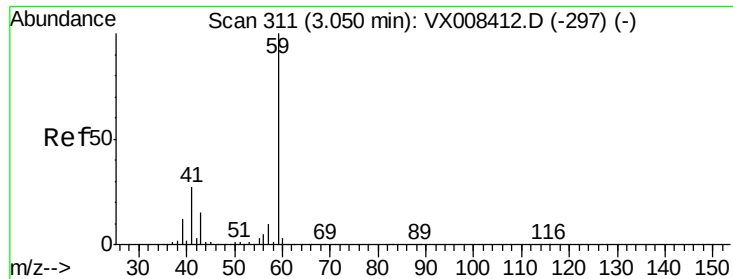
40

20

0

Time--> 2.48 2.49 2.50 2.51 2.52

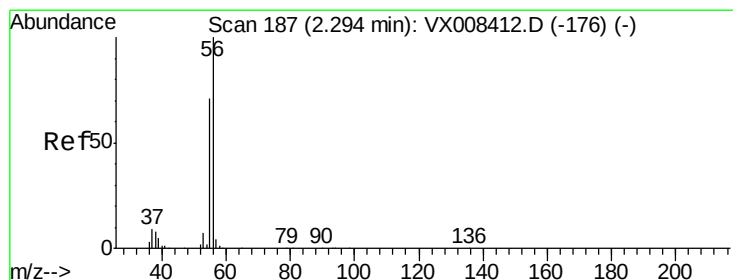
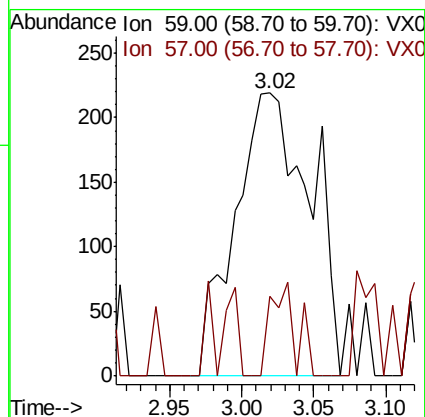
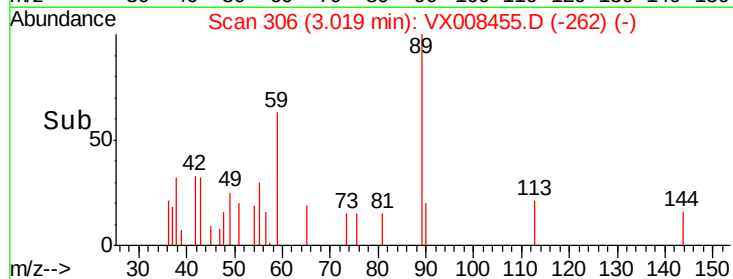
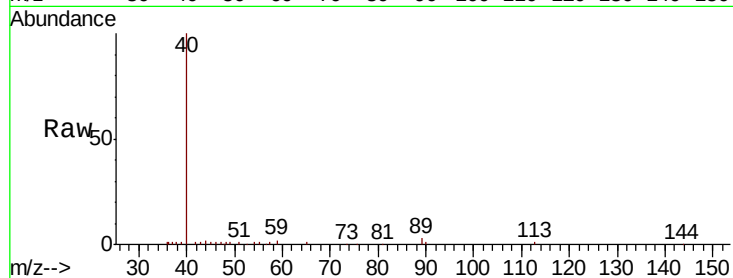




#11
Tert butyl alcohol
Concen: 1.055 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX008455.D
Acq: 26 Mar 2019 14:30

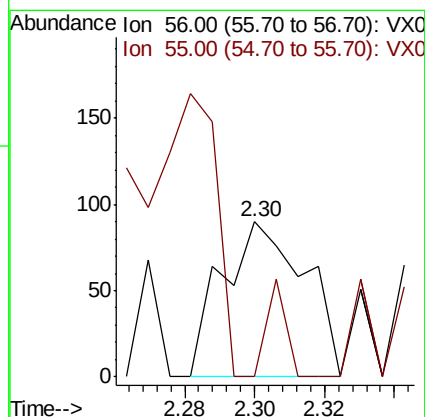
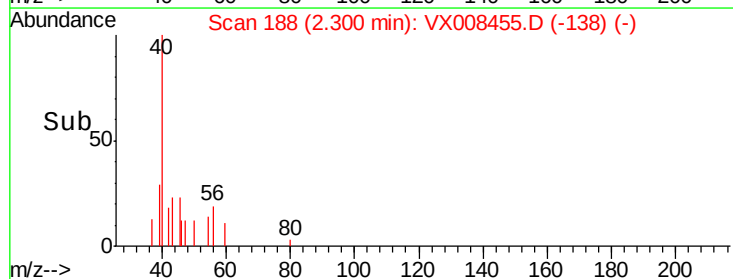
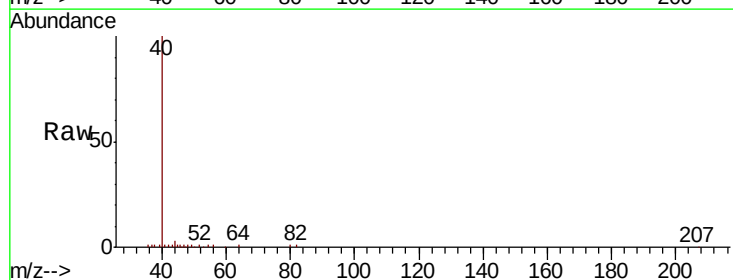
Instrument :
MSVOA_X
ClientSampleId :
TB-2019.03.21

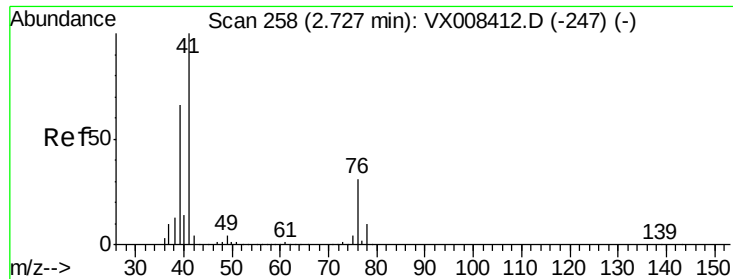
Tot Ion: 59 Resp: 797
Ion Ratio Lower Upper
59 100
57 11.2 8.2 12.4



#13
Acrolein
Concen: 0.270 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX008455.D
Acq: 26 Mar 2019 14:30

Tgt Ion: 56 Resp: 148
Ion Ratio Lower Upper
56 100
55 14.2 56.5 84.7#

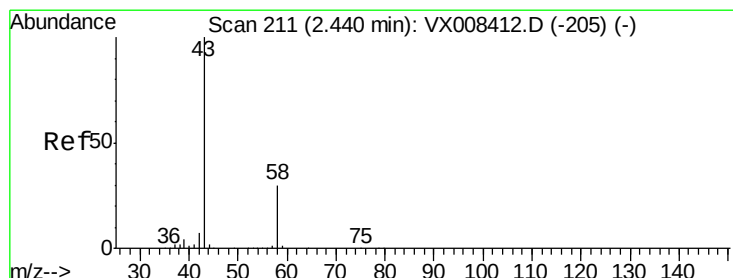
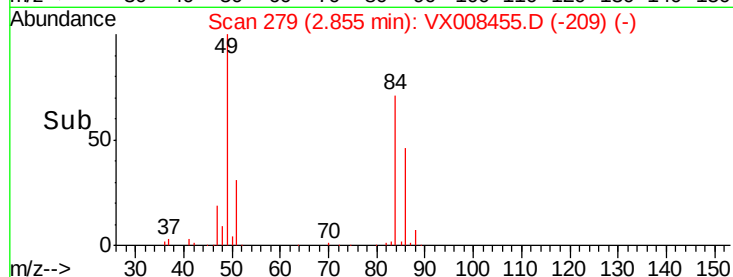
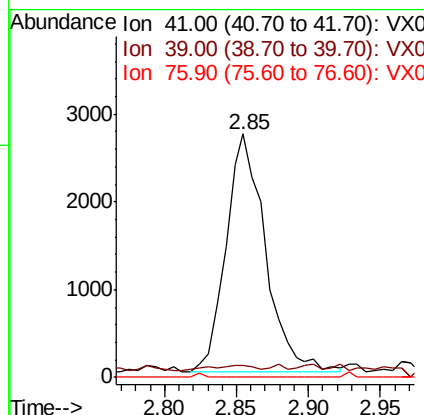
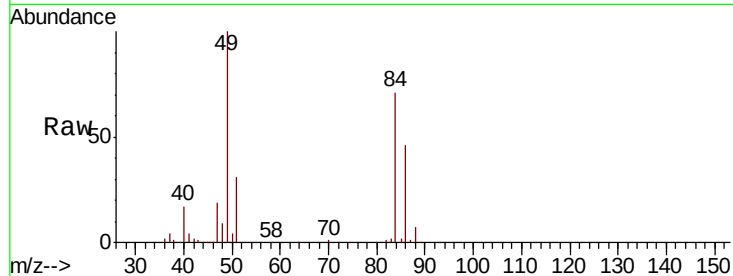




#14
Allvl chloride
Concen: 0.901 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.13 min
Lab File: VX008455.D
Acq: 26 Mar 2019 14:30

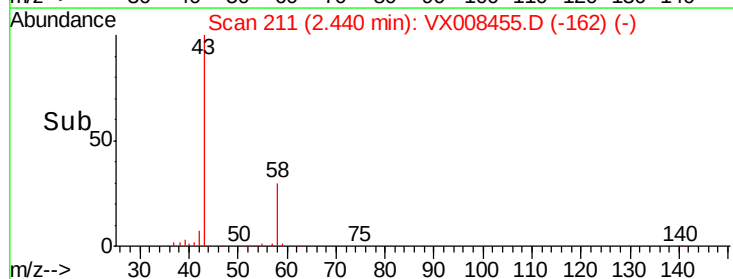
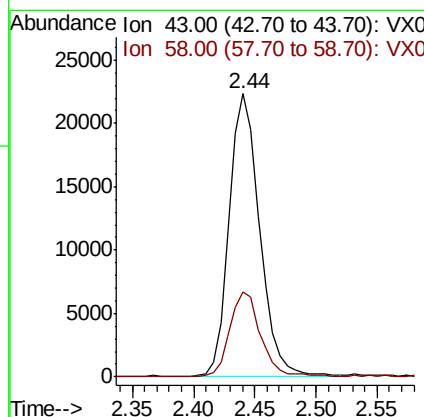
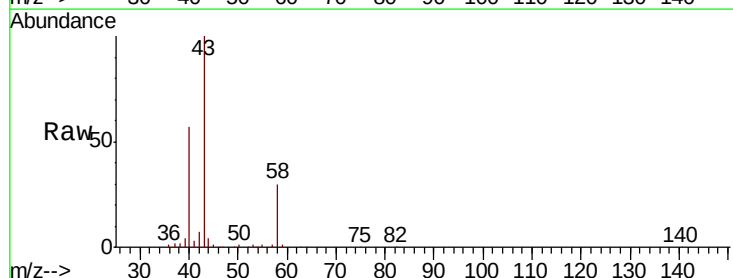
Instrument :
MSVOA_X
ClientSampled :
TB-2019.03.21

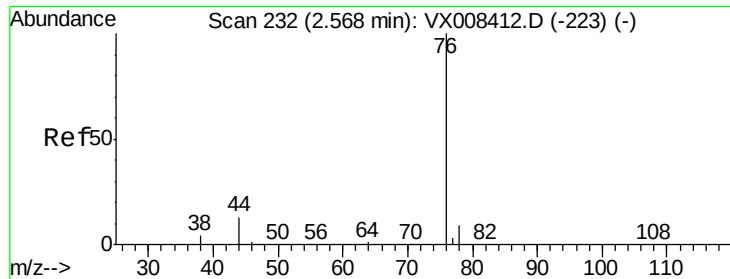
Tot Ion: 41 Resp: 5196
Ion Ratio Lower Upper
41 100
39 2.9 49.6 74.4#
76 0.0 22.6 34.0#



#16
Acetone
Concen: 21.414 ug/l
RT: 2.44 min Scan# 211
Delta R.T. 0.00 min
Lab File: VX008455.D
Acq: 26 Mar 2019 14:30

Tgt Ion: 43 Resp: 38169
Ion Ratio Lower Upper
43 100
58 30.1 24.2 36.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

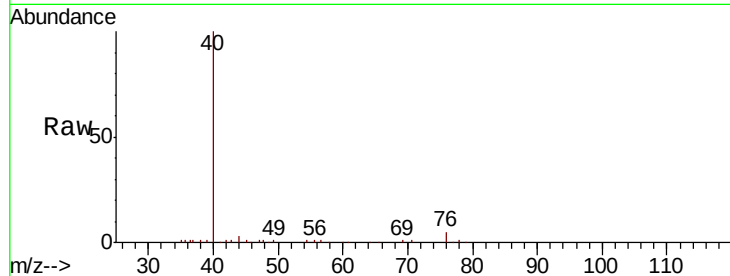
TB-2019.03.21

Tot Ion: 76 Resp: 1020

Ion Ratio Lower Upper

76 100

78 16.4 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

600

500

400

300

200

100

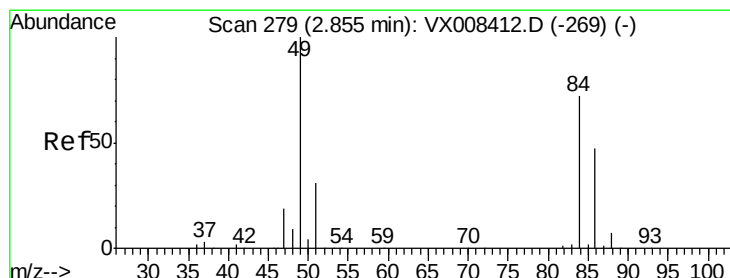
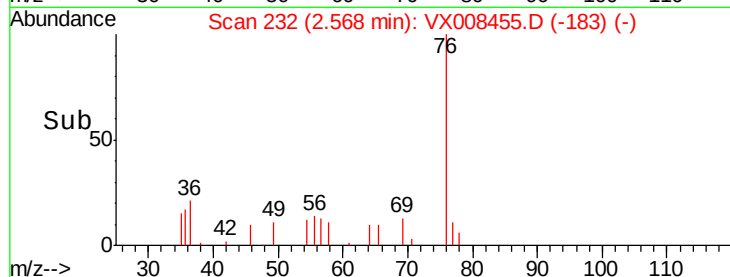
0

Time-->

2.50

2.55

2.60



#20

Methylene Chloride

Concen: 34.994 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

Tgt Ion: 84 Resp: 102360

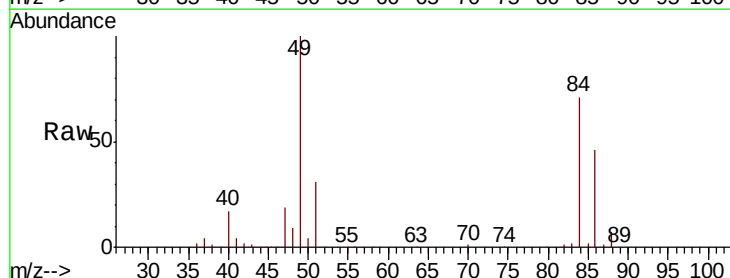
Ion Ratio Lower Upper

84 100

49 141.3 110.6 165.8

51 43.5 33.9 50.9

86 64.6 52.2 78.2



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

100000

80000

60000

40000

20000

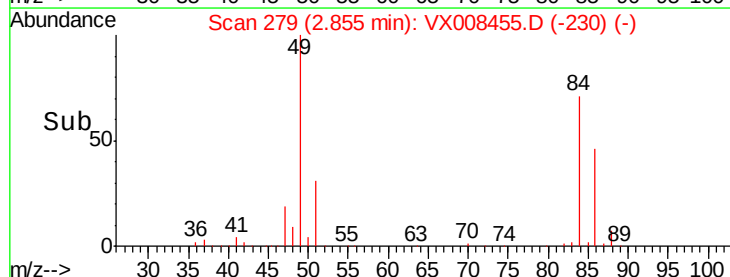
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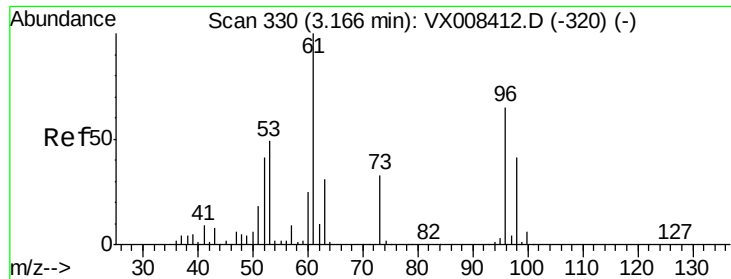
Time-->

2.80

2.90

3.00





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

TB-2019.03.21

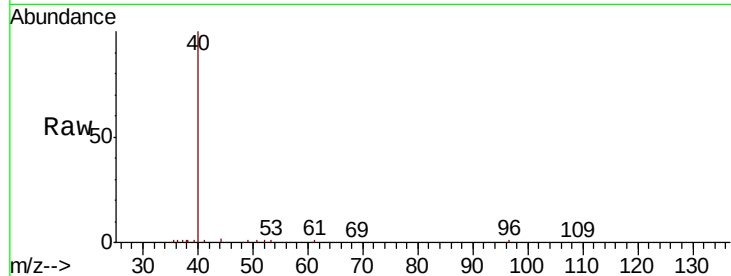
Tot Ion: 96 Resp: 21

Ion Ratio Lower Upper

96 100

61 40.5 122.6 184.0#

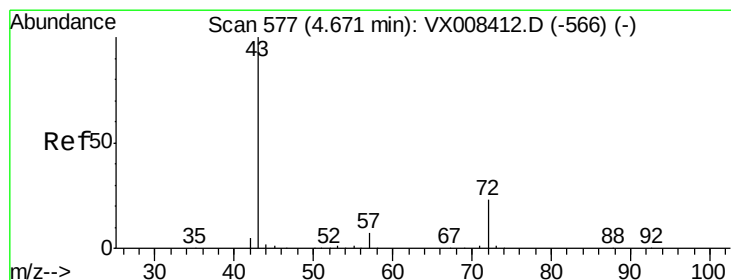
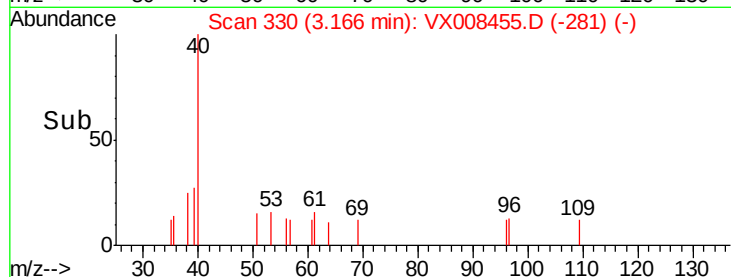
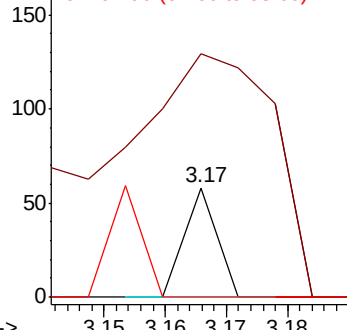
98 0.0 50.9 76.3#



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



#25

2-Butanone

Concen: 0.679 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX008455.D

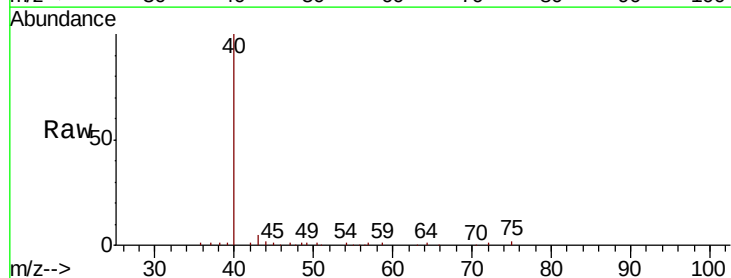
Acq: 26 Mar 2019 14:30

Tgt Ion: 43 Resp: 1940

Ion Ratio Lower Upper

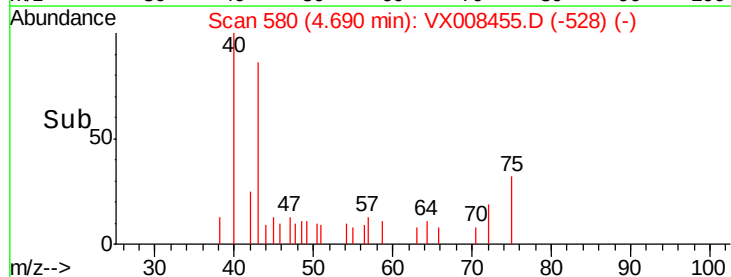
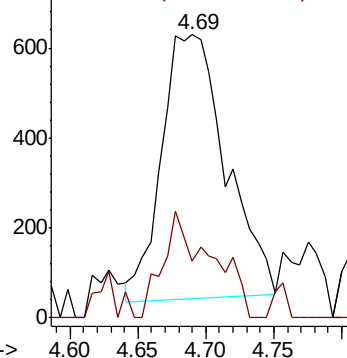
43 100

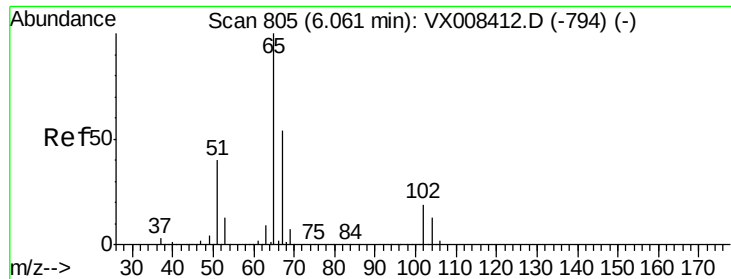
72 12.0 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

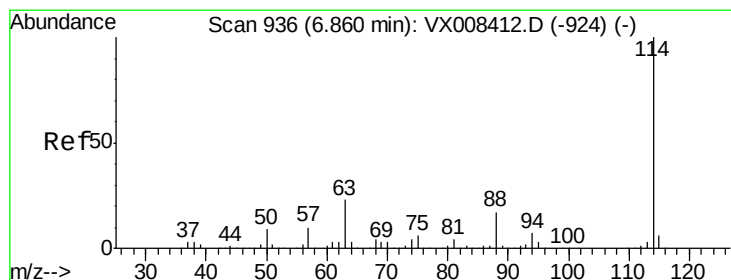
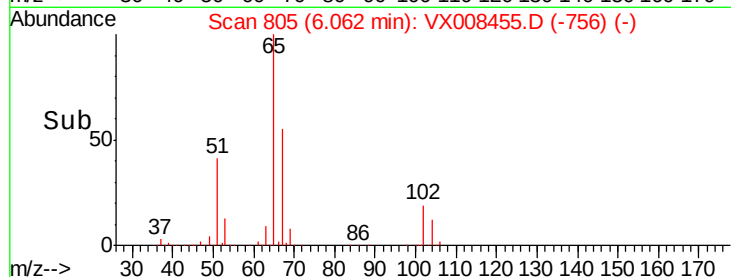
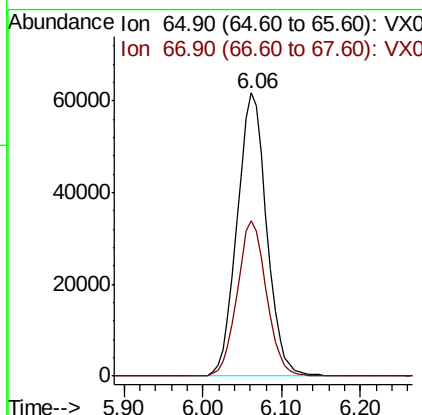
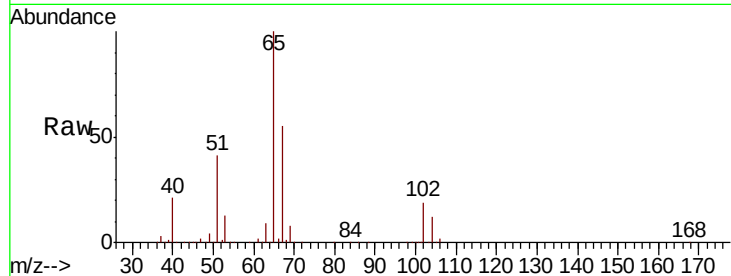




#33
 1,2-Dichloroethane-d4
 Concen: 47.162 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008455.D
 Acq: 26 Mar 2019 14:30

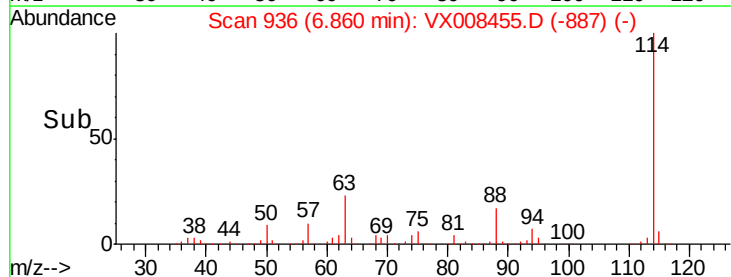
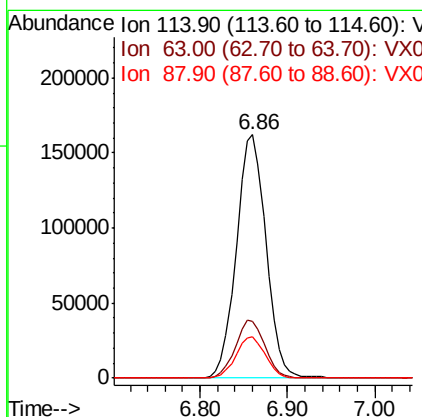
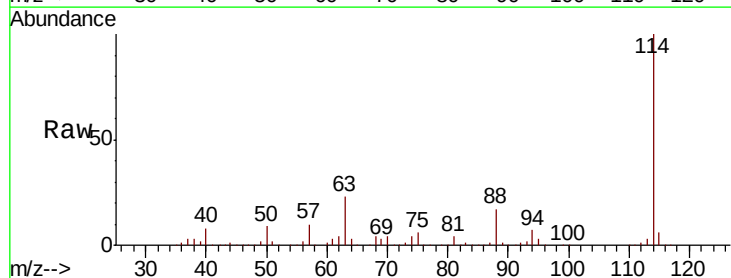
Instrument :
 MSVOA_X
 ClientSampleId :
 TB-2019.03.21

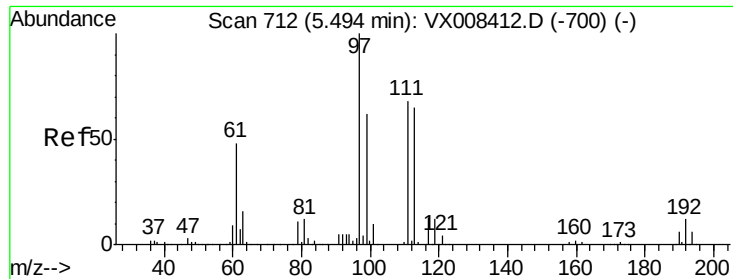
Tot Ion: 65 Resp: 160844
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008455.D
 Acq: 26 Mar 2019 14:30

Tgt Ion: 114 Resp: 382231
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 46.4
 88 17.1 0.0 33.2

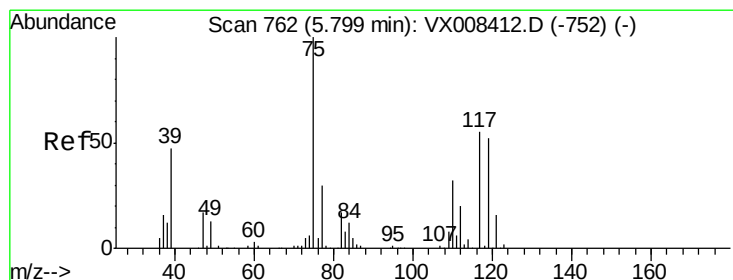
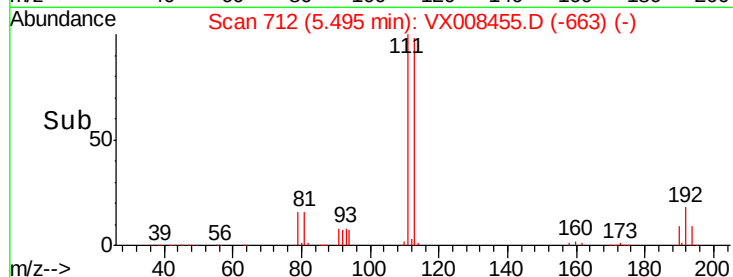
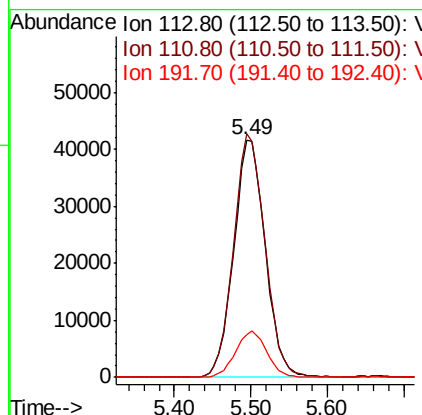
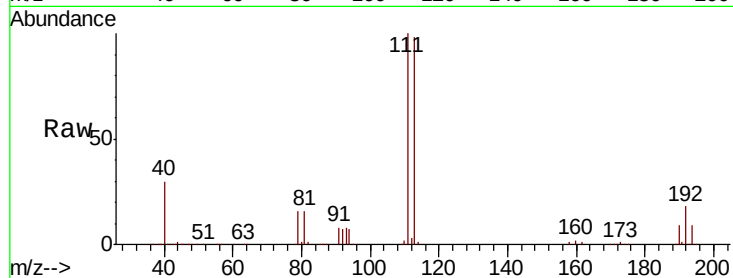




#35
 Dibromofluoromethane
 Concen: 47.563 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX008455.D
 Acq: 26 Mar 2019 14:30

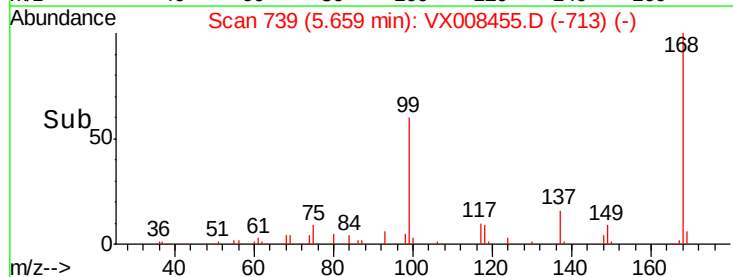
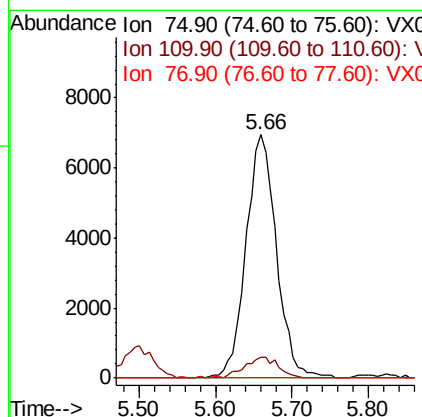
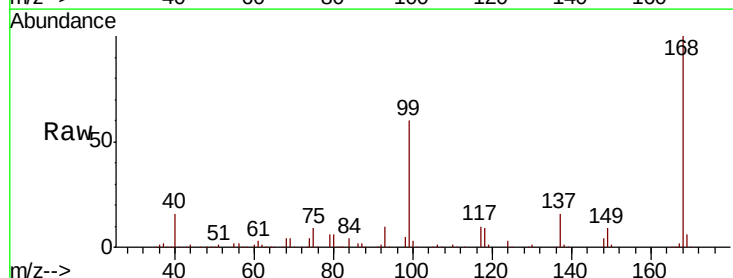
Instrument :
 MSVOA_X
 ClientSampled :
 TB-2019.03.21

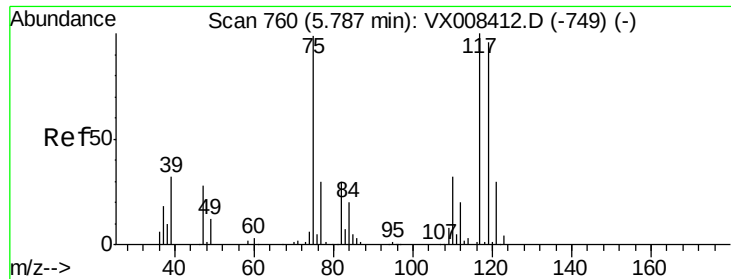
Tot Ion:113 Resp: 118543
 Ion Ratio Lower Upper
 113 100
 111 102.5 83.0 124.4
 192 19.3 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.724 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008455.D
 Acq: 26 Mar 2019 14:30

Tgt Ion: 75 Resp: 19254
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.6 49.7#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.593 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

Instrument :

MSVOA_X

ClientSampled :

TB-2019.03.21

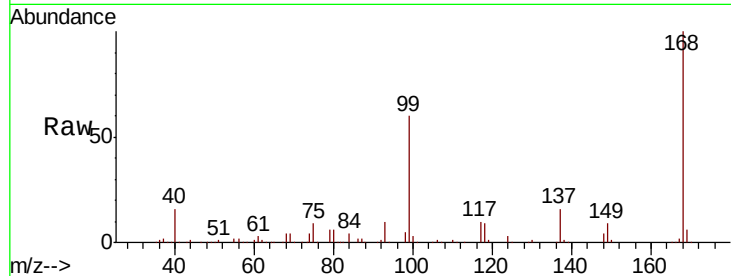
Tot Ion:117 Resp: 22422

Ion Ratio Lower Upper

117 100

119 6.4 76.7 115.1#

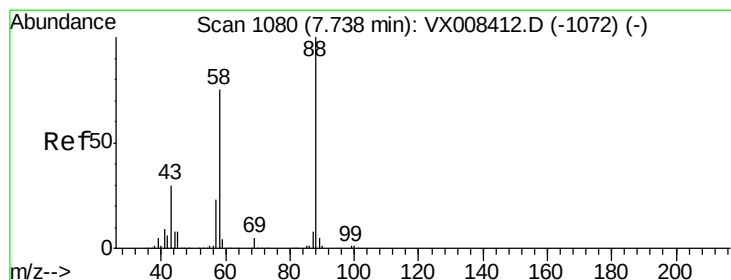
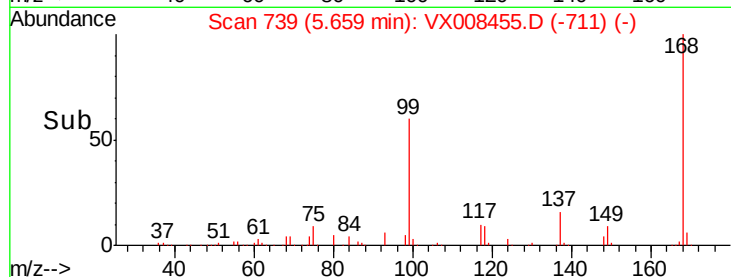
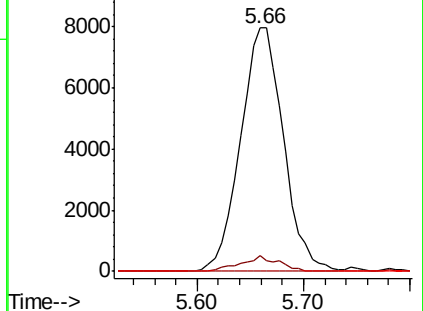
121 0.0 24.3 36.5#



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: 0.548 ug/l

RT: 7.88 min Scan# 1103

Delta R.T. 0.14 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

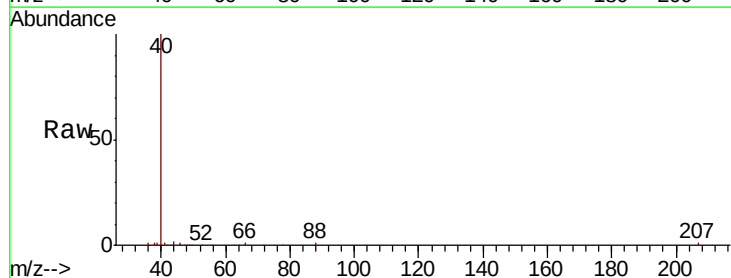
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 0.0 28.6 43.0#

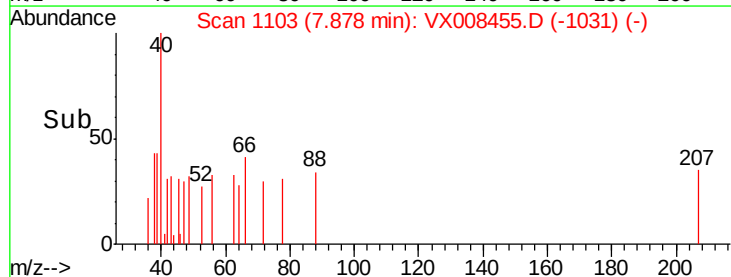
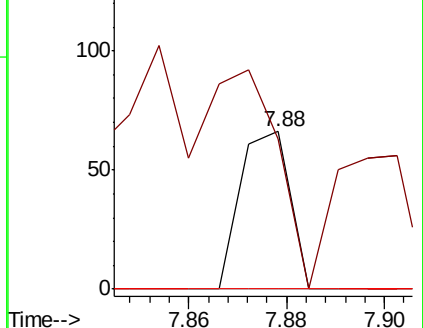
58 0.0 63.0 94.4#

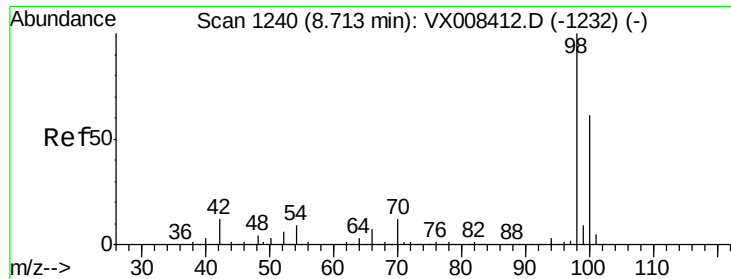


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.894 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

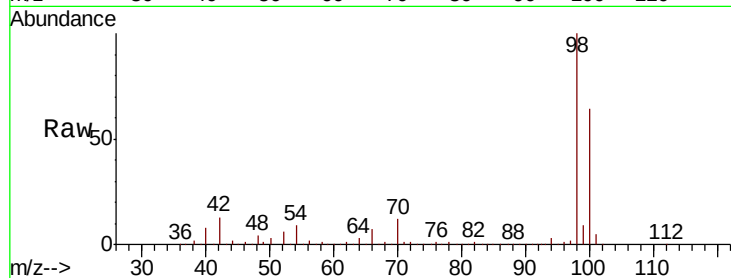
TB-2019.03.21

Tot Ion: 98 Resp: 477300

Ion Ratio Lower Upper

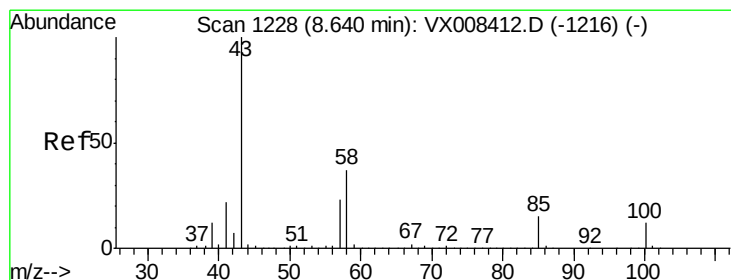
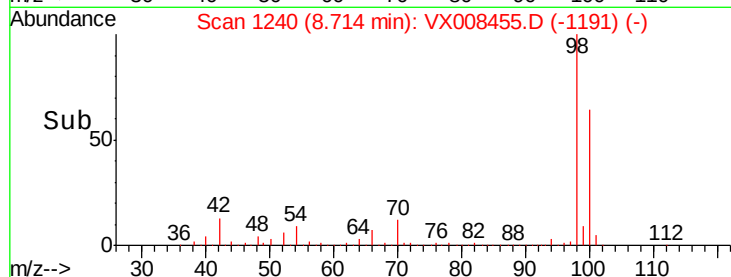
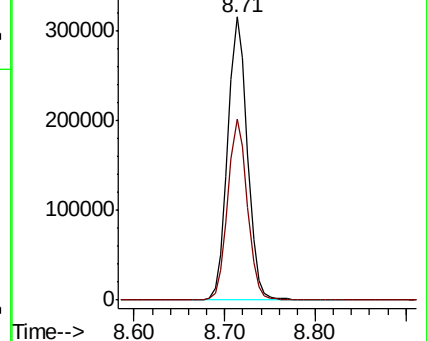
98 100

100 63.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.328 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX008455.D

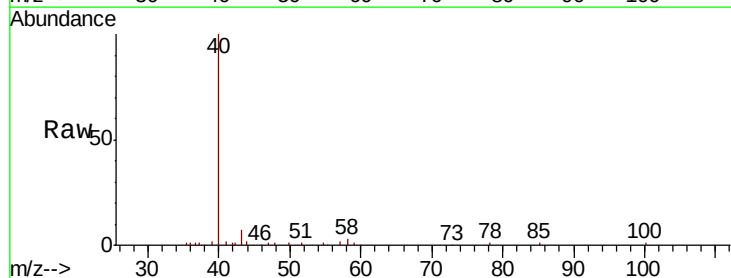
Acq: 26 Mar 2019 14:30

Tgt Ion: 43 Resp: 1798

Ion Ratio Lower Upper

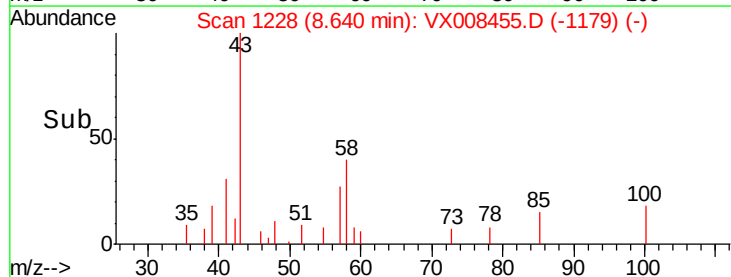
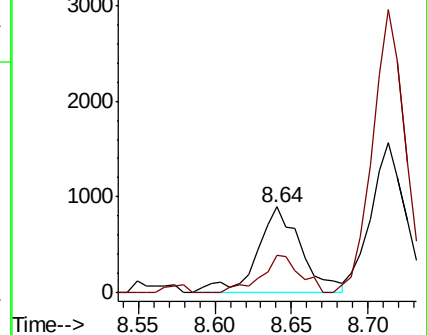
43 100

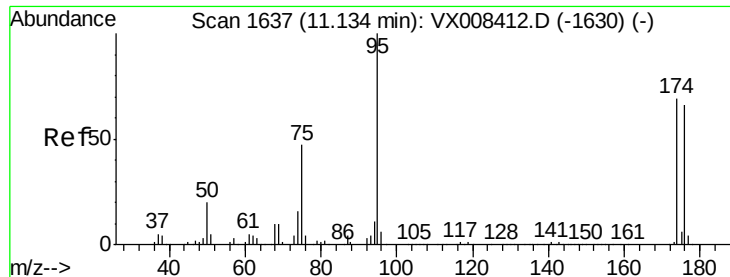
58 38.4 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 42.744 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

TB-2019.03.21

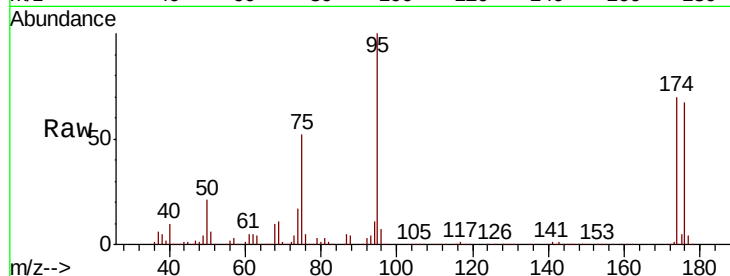
Tot Ion: 95 Resp: 157850

Ion Ratio Lower Upper

95 100

174 73.5 0.0 147.2

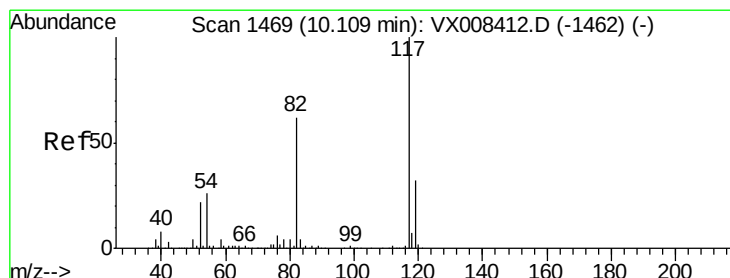
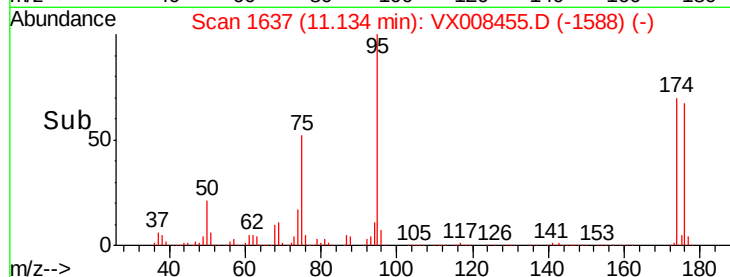
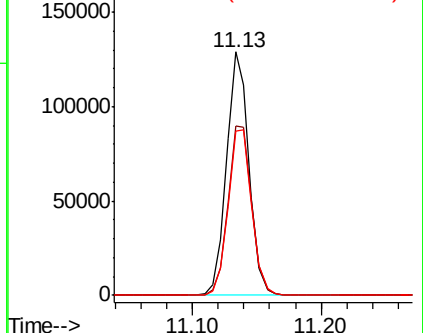
176 71.5 0.0 142.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

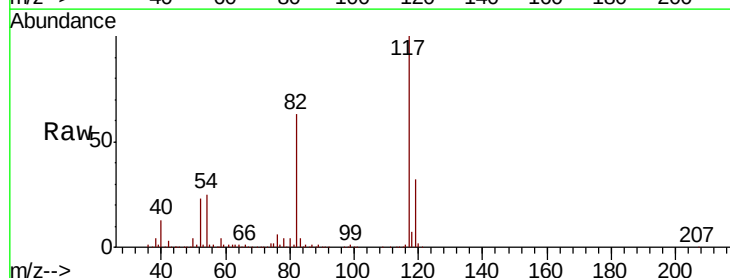
Tgt Ion: 117 Resp: 322323

Ion Ratio Lower Upper

117 100

82 62.5 49.4 74.2

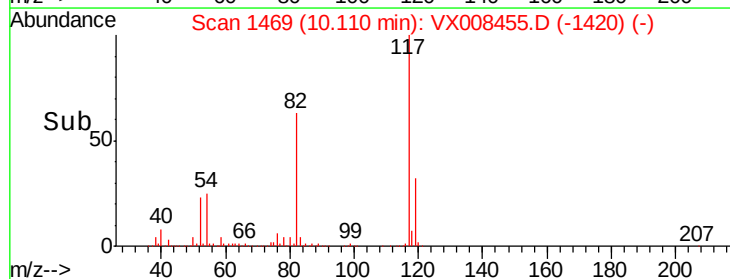
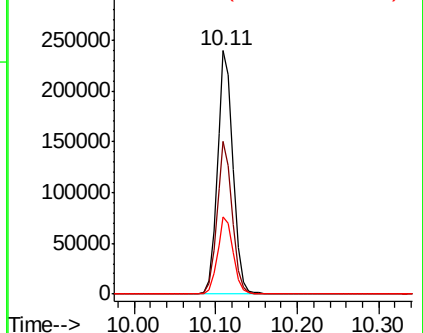
119 31.9 25.4 38.0

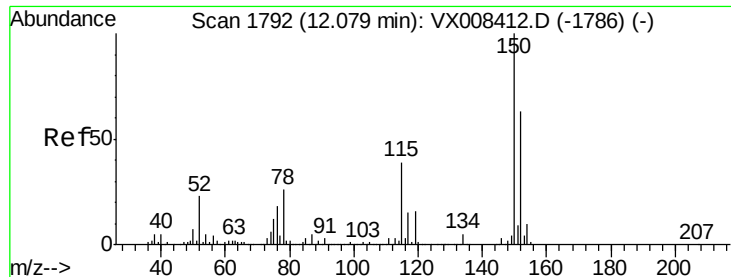


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

Instrument :

MSVOA_X

ClientSampled :

TB-2019.03.21

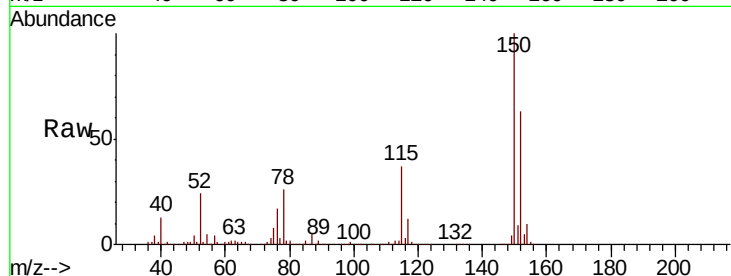
Tot Ion:152 Resp: 129724

Ion Ratio Lower Upper

152 100

115 61.7 43.5 130.5

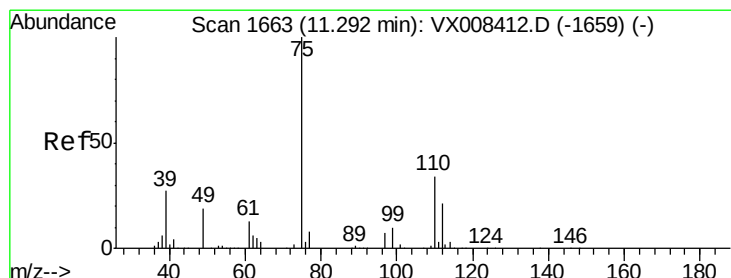
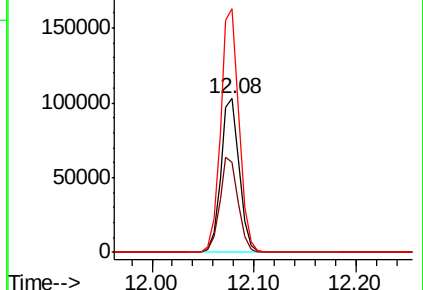
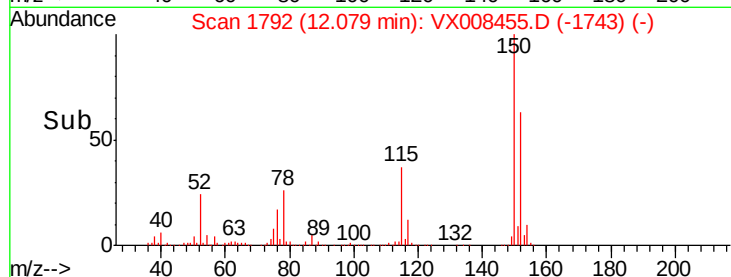
150 158.2 0.0 348.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 21.162 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008455.D

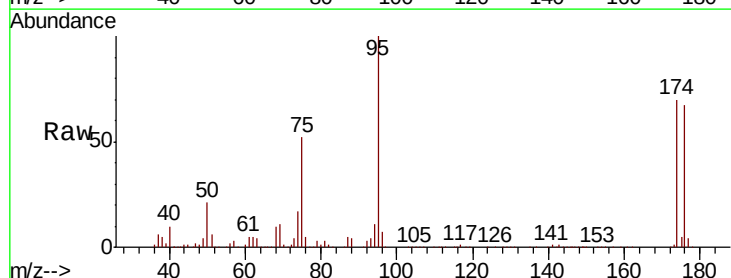
Acq: 26 Mar 2019 14:30

Tgt Ion: 75 Resp: 81612

Ion Ratio Lower Upper

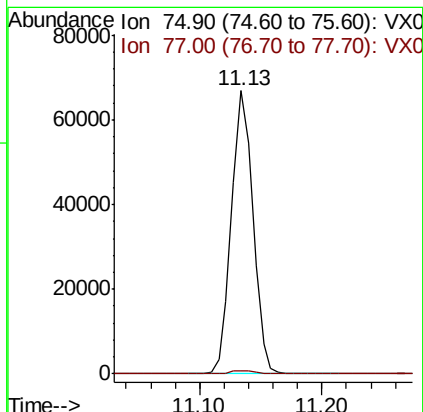
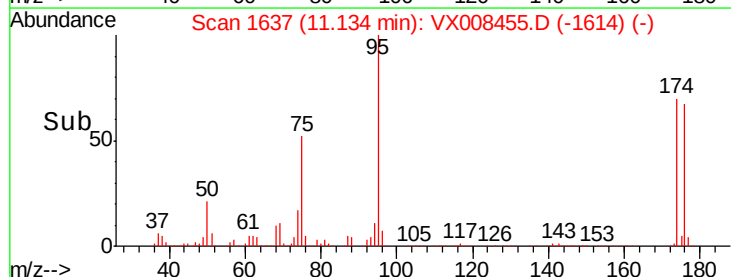
75 100

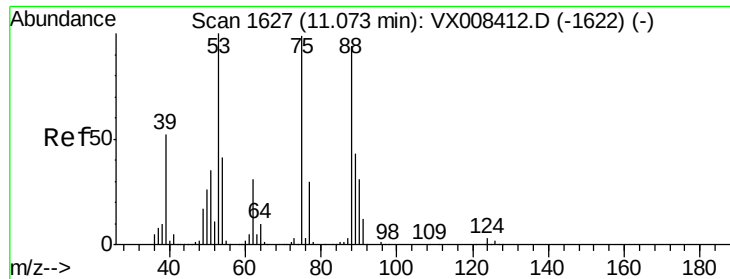
77 1.1 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.778 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008455.D

Acq: 26 Mar 2019 14:30

Instrument :

MSVOA_X

ClientSampleId :

TB-2019.03.21

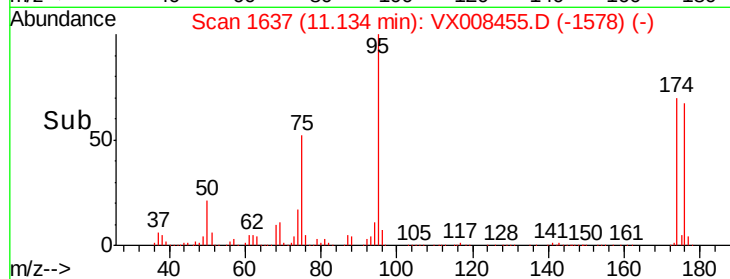
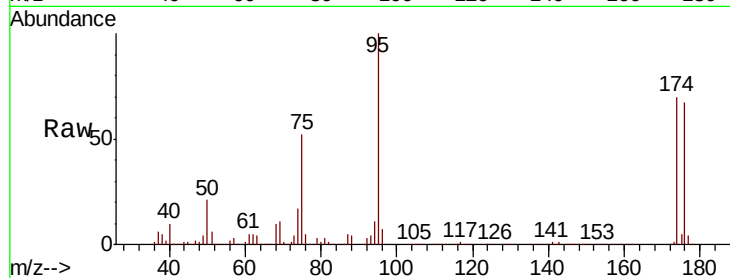
Tot Ion: 75 Resp: 81612

Ion Ratio Lower Upper

75 100

53 0.2 82.1 123.1#

89 0.0 34.6 52.0#



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

