

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041219\
 Data File : VX008882.D
 Acq On : 12 Apr 2019 13:34
 Operator : JC/SP
 Sample : K2366-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB01-20190409

Quant Time: Apr 13 04:57:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	198329	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	316164	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	278345	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	118722	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	131277	45.38	ug/l	0.00
Spiked Amount			Recovery	=	90.76%	
35) Dibromofluoromethane	5.49	113	93611	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	
50) Toluene-d8	8.71	98	397906	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
62) 4-Bromofluorobenzene	11.13	95	133247	46.68	ug/l	0.00
Spiked Amount			Recovery	=	93.36%	

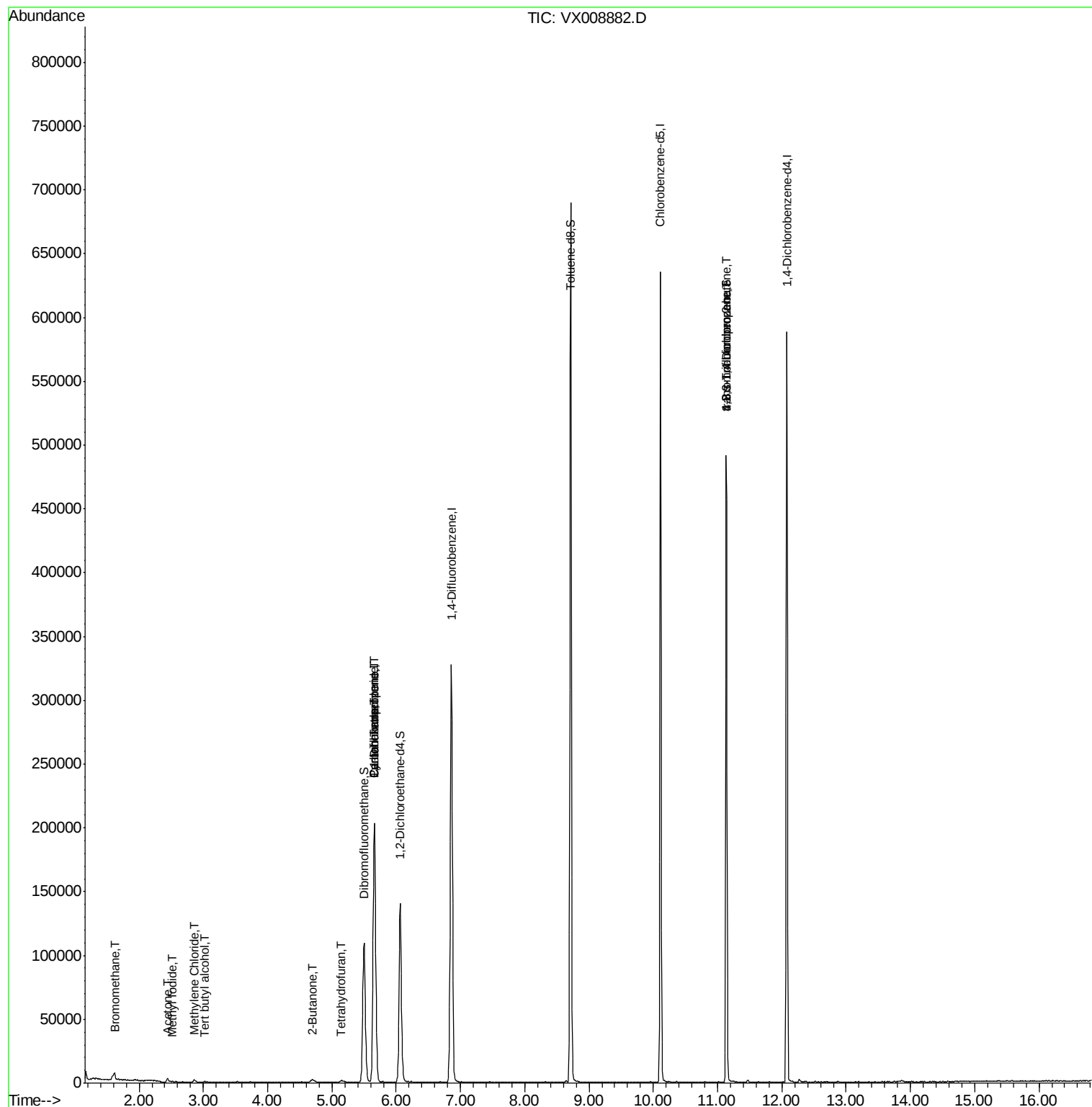
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	326	Below Cal	#	63
5) Bromomethane	1.64	94	279	2.062	ug/l #	57
6) Chloroethane	1.75	64	23	Below Cal	#	43
10) Methyl Iodide	2.51	142	193	4.092	ug/l #	81
11) Tert butyl alcohol	3.02	59	609	0.899	ug/l #	72
16) Acetone	2.44	43	3298	1.979	ug/l	99
17) Carbon Disulfide	2.57	76	530	Below Cal	#	75
20) Methylene Chloride	2.85	84	779	0.279	ug/l #	85
25) 2-Butanone	4.70	43	1423	0.540	ug/l	94
28) Bromochloromethane	5.13	49	22	Below Cal	#	22
29) Tetrahydrofuran	5.15	42	1583	0.906	ug/l #	89
31) Cyclohexane	5.67	56	4406	0.882	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15657	4.530	ug/l #	51
38) Carbon Tetrachloride	5.66	117	18682	6.531	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	67218	20.610	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	67218	56.813	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: VX008882.D

Acq: 12 Apr 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

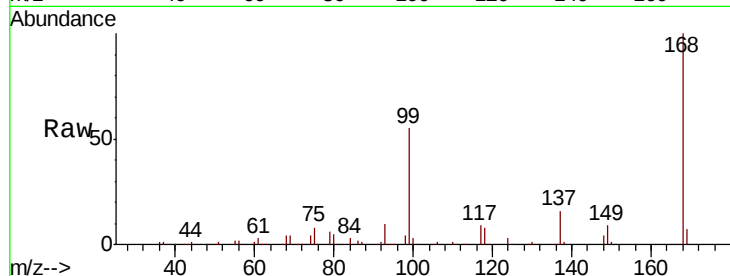
TB01-20190409

Tot Ion:168 Resp: 198329

Ion Ratio Lower Upper

168 100

99 55.0 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

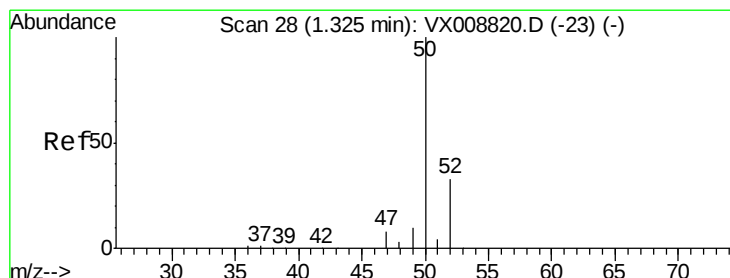
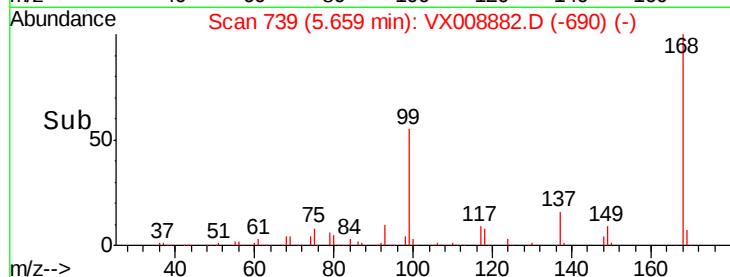
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008882.D

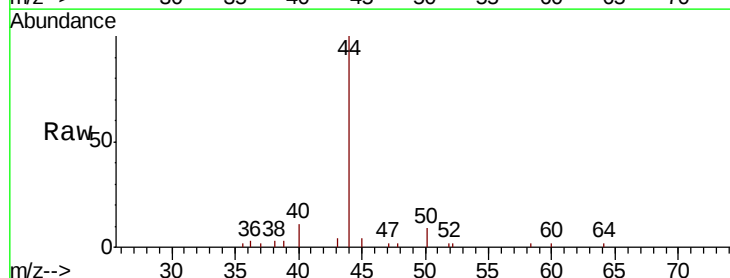
Acq: 12 Apr 2019 13:34

Tgt Ion: 50 Resp: 326

Ion Ratio Lower Upper

50 100

52 52.8 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

250

200

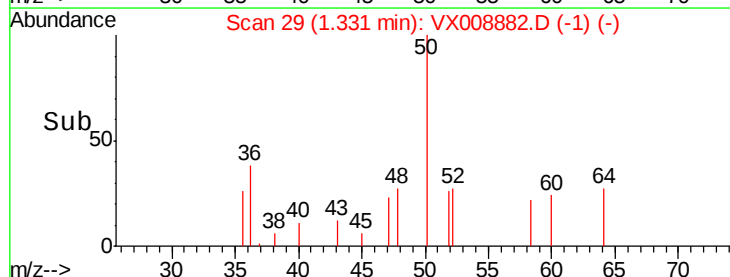
150

100

50

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 2.062 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008882.D

Acq: 12 Apr 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

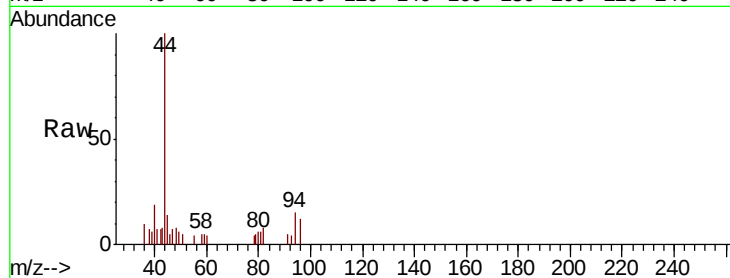
TB01-20190409

Tot Ion: 94 Resp: 279

Ion Ratio Lower Upper

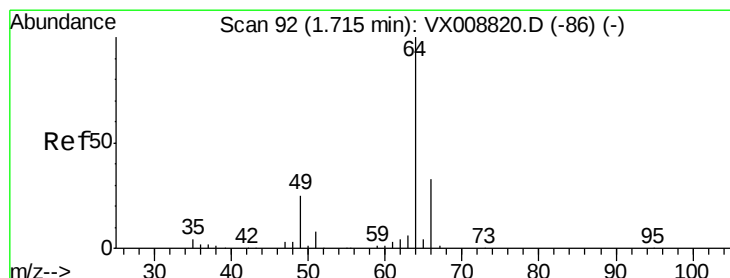
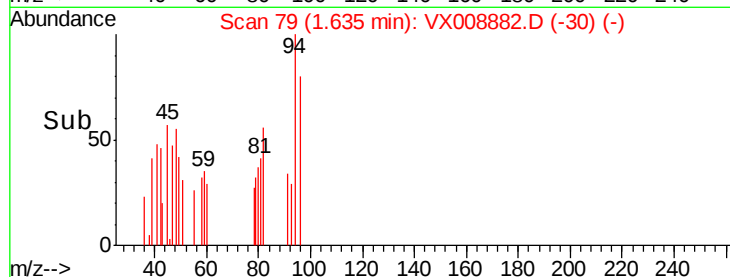
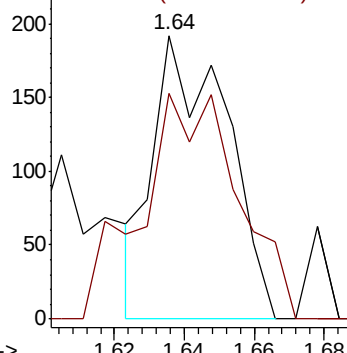
94 100

96 52.6 75.2 112.8#



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: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX008882.D

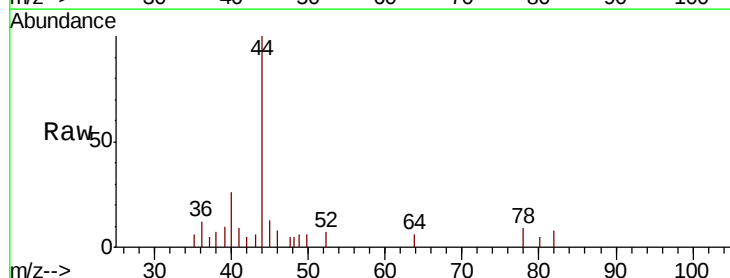
Acq: 12 Apr 2019 13:34

Tgt Ion: 64 Resp: 23

Ion Ratio Lower Upper

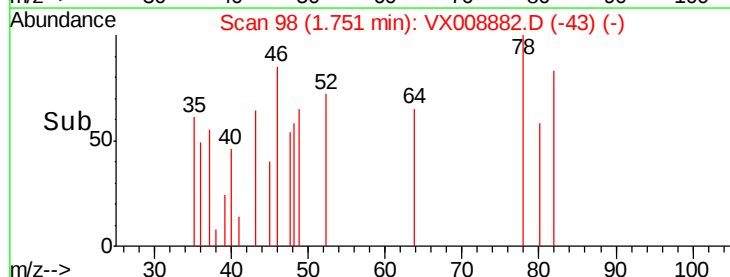
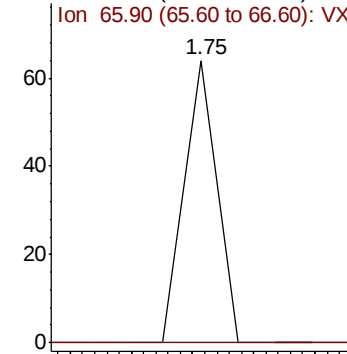
64 100

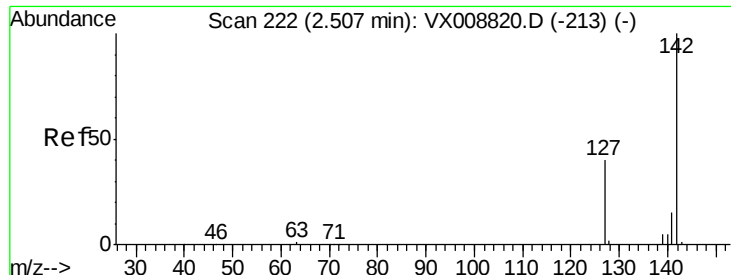
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

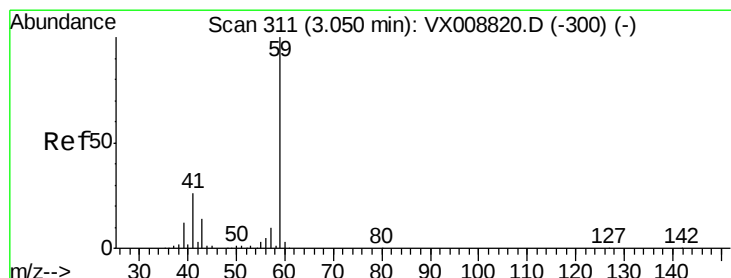
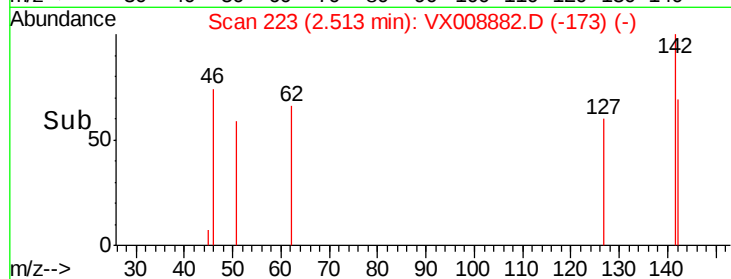
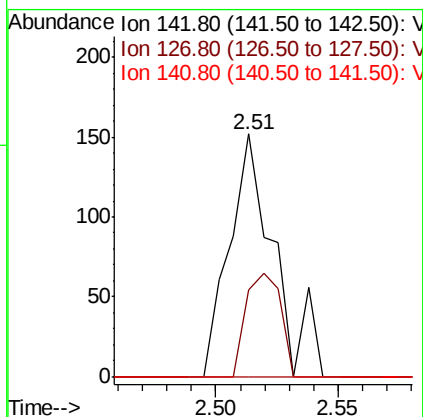
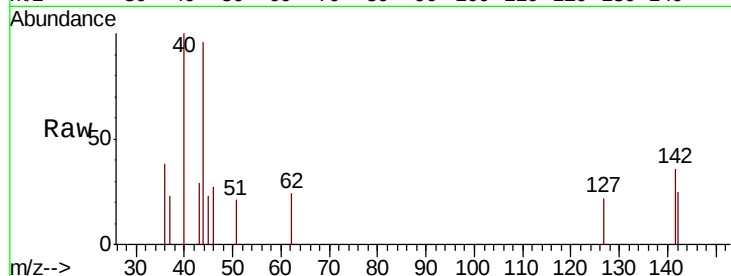




#10
Methyl Iodide
Concen: 4.092 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008882.D
Acq: 12 Apr 2019 13:34

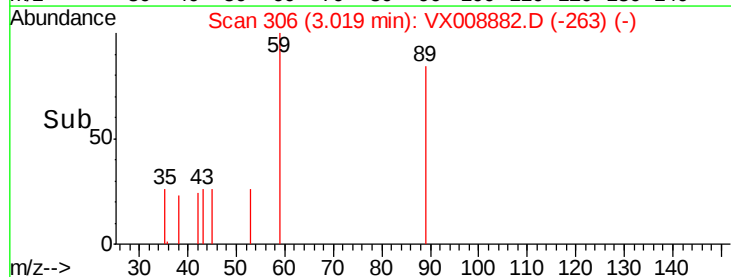
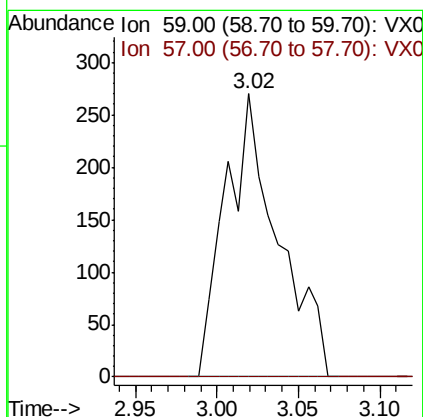
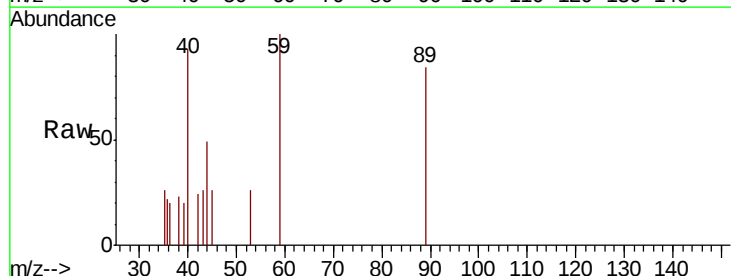
Instrument :
MSVOA_X
ClientSampleId :
TB01-20190409

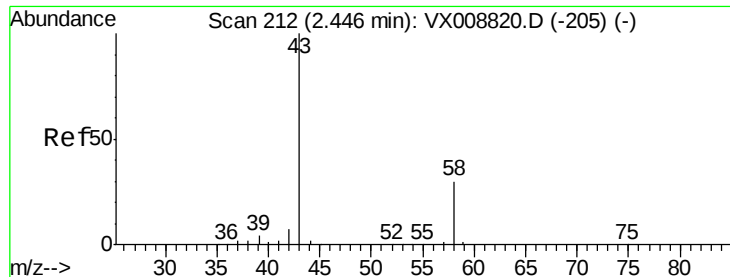
Tot Ion:142 Resp: 193
Ion Ratio Lower Upper
142 100
127 33.2 33.0 49.6
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.899 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.04 min
Lab File: VX008882.D
Acq: 12 Apr 2019 13:34

Tgt Ion: 59 Resp: 609
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 1.979 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008882.D

Acq: 12 Apr 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

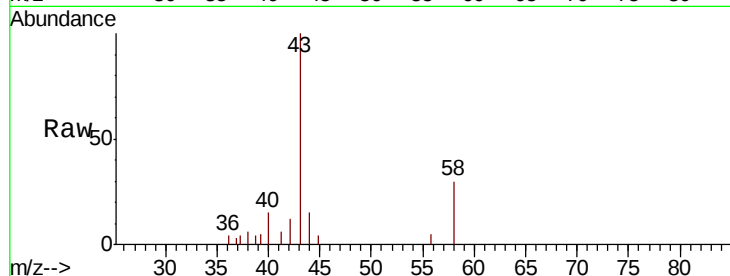
TB01-20190409

Tot Ion: 43 Resp: 3298

Ion Ratio Lower Upper

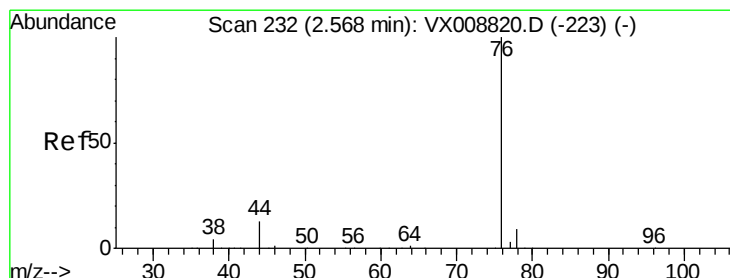
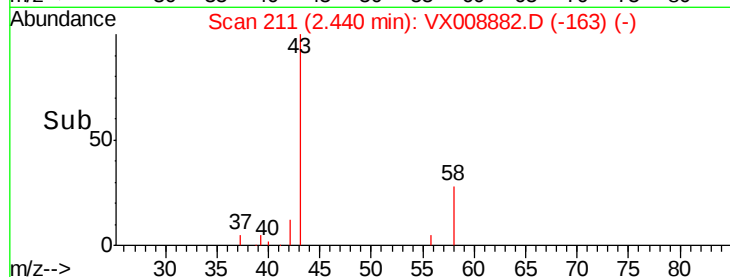
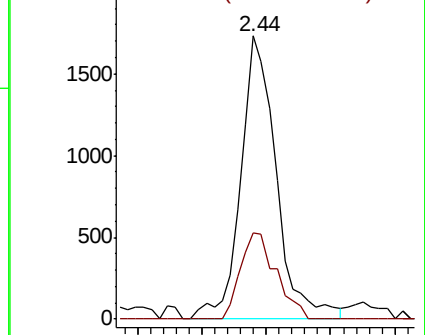
43 100

58 30.3 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008882.D

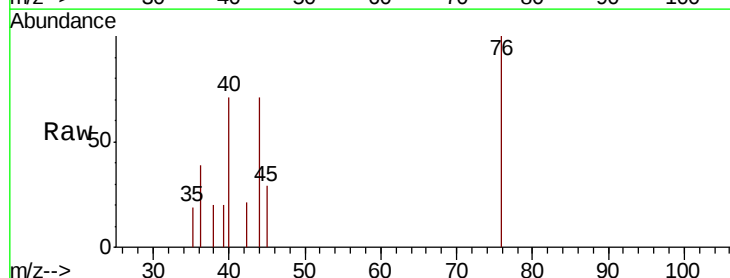
Acq: 12 Apr 2019 13:34

Tgt Ion: 76 Resp: 530

Ion Ratio Lower Upper

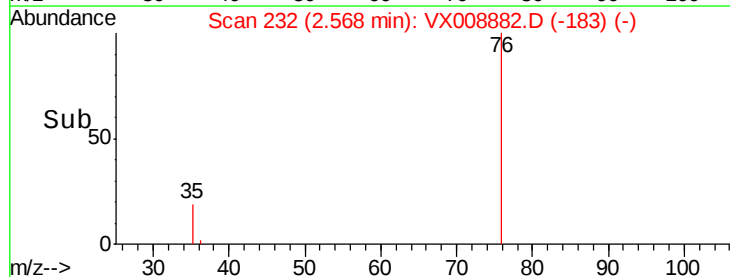
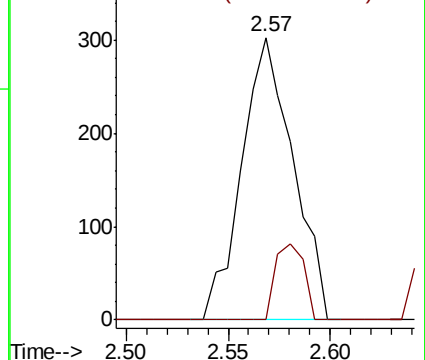
76 100

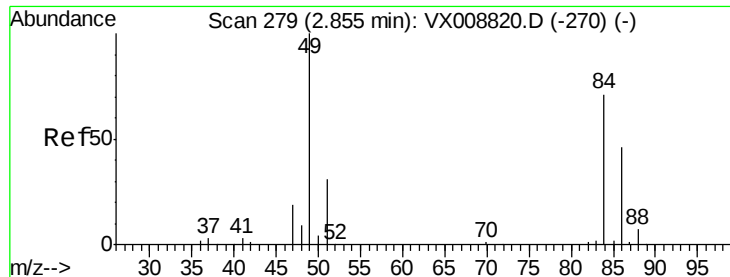
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

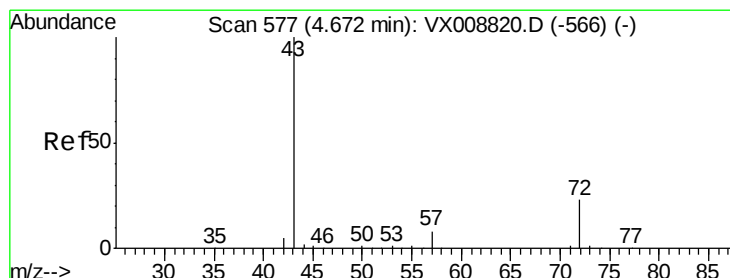
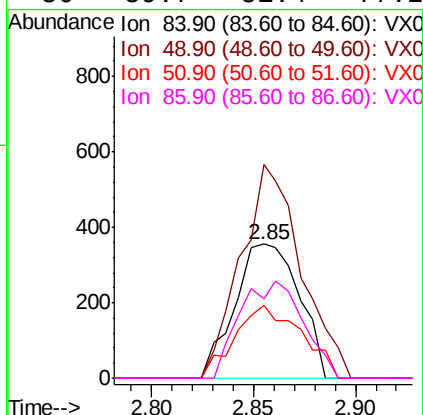
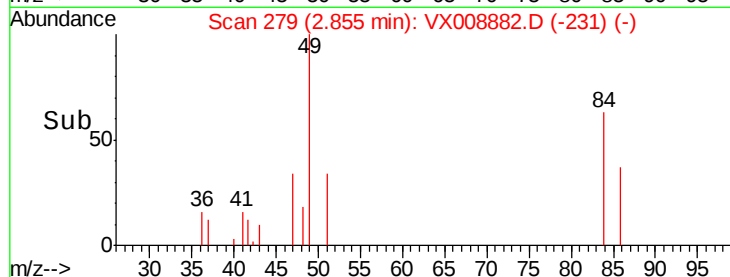
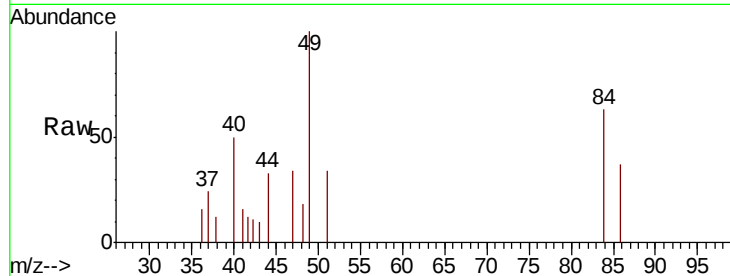




#20
Methvlene Chloride
Concen: 0.279 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008882.D
Acq: 12 Apr 2019 13:34

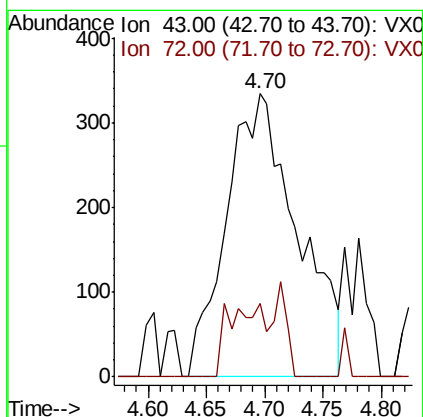
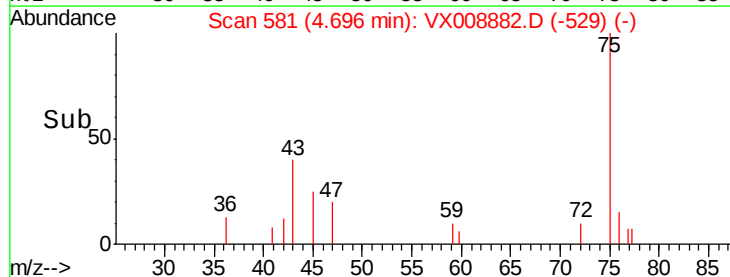
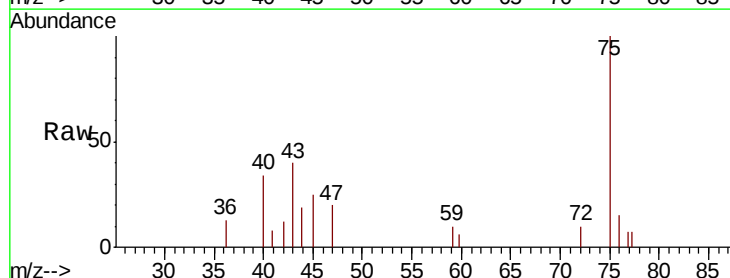
Instrument :
MSVOA_X
ClientSampleId :
TB01-20190409

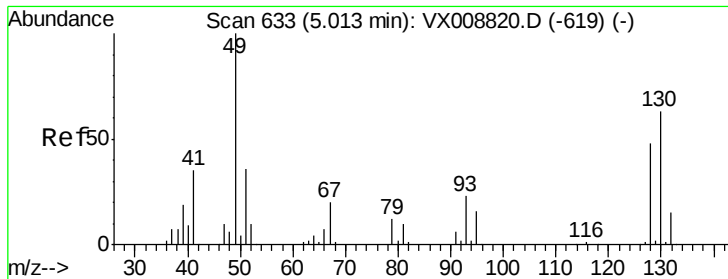
Tot Ion: 84 Resp: 779
Ion Ratio Lower Upper
84 100
49 159.4 109.7 164.5
51 54.1 33.6 50.4#
86 59.7 51.4 77.2



#25
2-Butanone
Concen: 0.540 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.02 min
Lab File: VX008882.D
Acq: 12 Apr 2019 13:34

Tgt Ion: 43 Resp: 1423
Ion Ratio Lower Upper
43 100
72 25.7 18.2 27.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.13 min Scan# 653

Delta R.T. 0.12 min

Lab File: VX008882.D

Acq: 12 Apr 2019 13:34

Instrument :

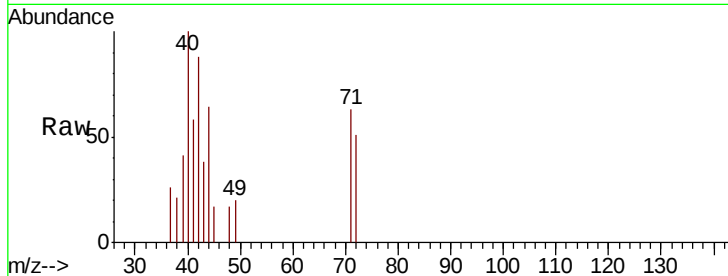
MSVOA_X

ClientSampleId :

TB01-20190409

Tot Ion: 49 Resp: 22

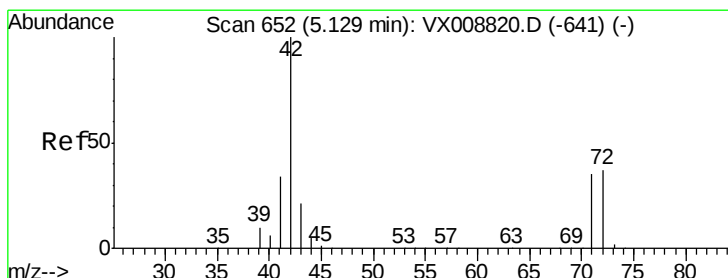
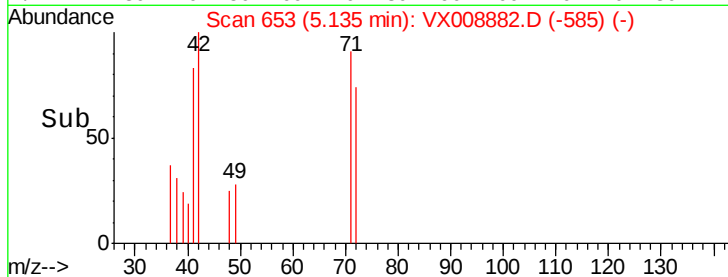
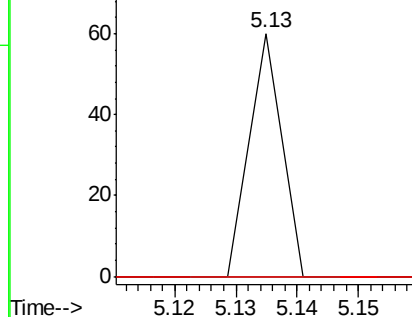
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	49.3	73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.906 ug/l

RT: 5.15 min Scan# 655

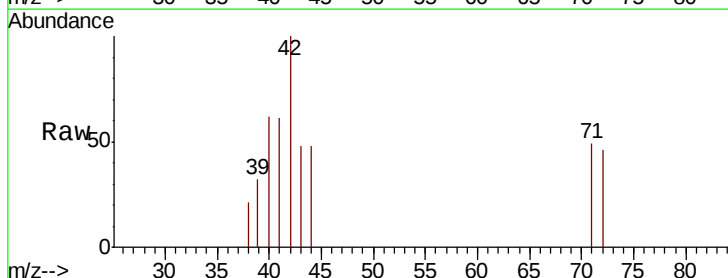
Delta R.T. 0.02 min

Lab File: VX008882.D

Acq: 12 Apr 2019 13:34

Tgt Ion: 42 Resp: 1583

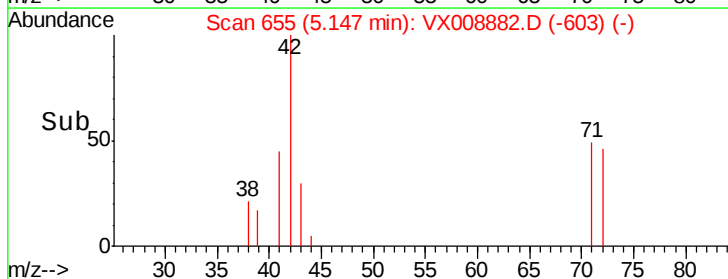
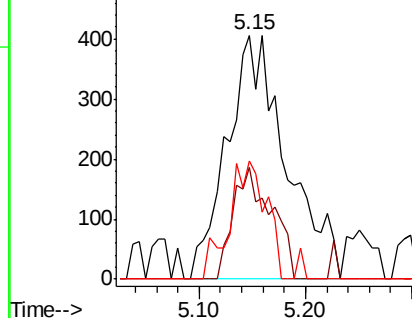
Ion	Ratio	Lower	Upper
42	100		
72	29.9	30.5	45.7#
71	30.4	28.6	43.0

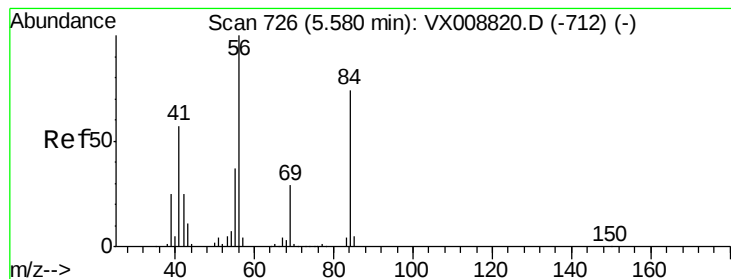


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 0.882 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008882.D

Acq: 12 Apr 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

TB01-20190409

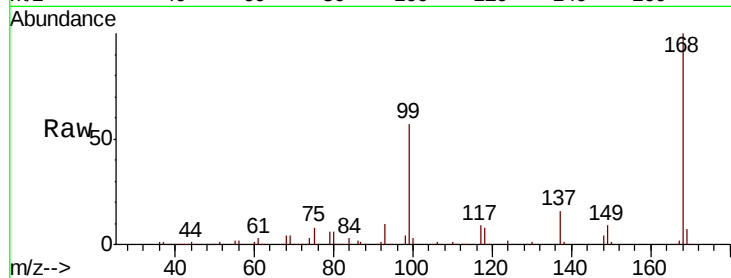
Tot Ion: 56 Resp: 4406

Ion Ratio Lower Upper

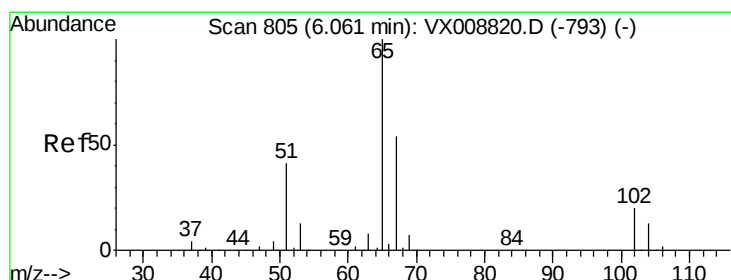
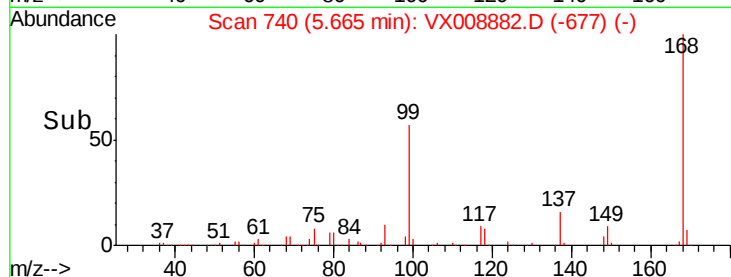
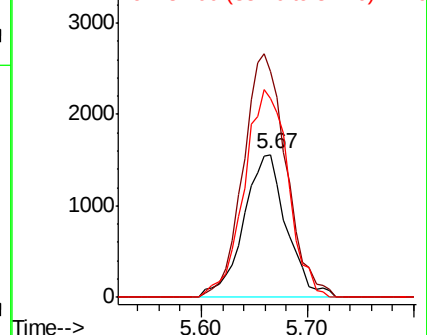
56 100

69 157.8 22.6 33.8#

84 139.5 59.3 88.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.381 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008882.D

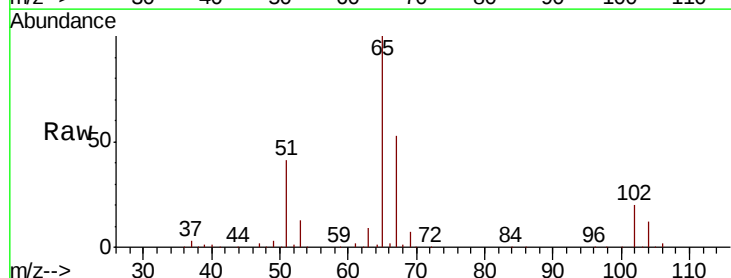
Acq: 12 Apr 2019 13:34

Tgt Ion: 65 Resp: 131277

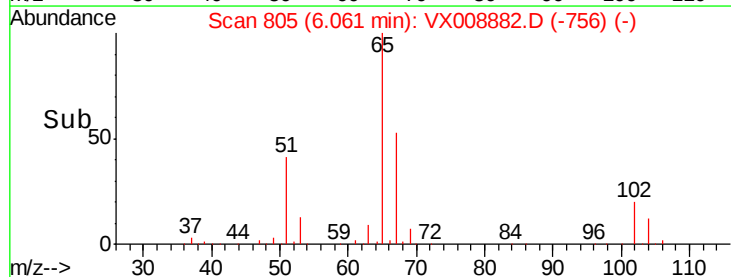
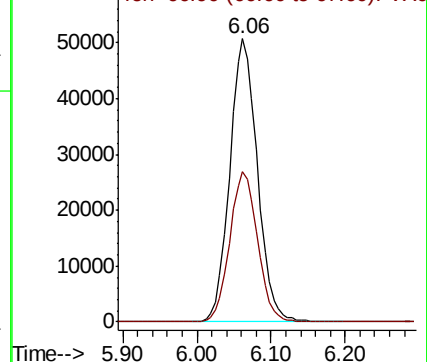
Ion Ratio Lower Upper

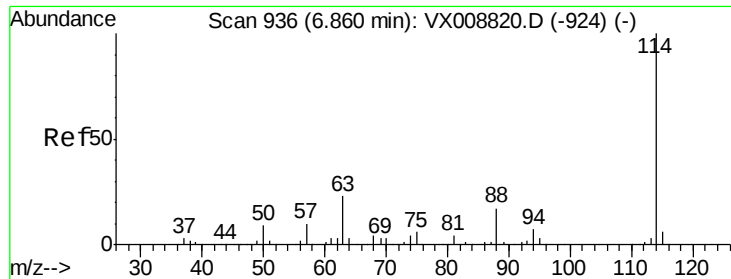
65 100

67 53.6 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

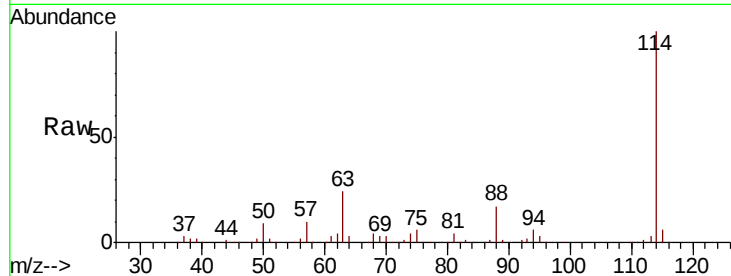




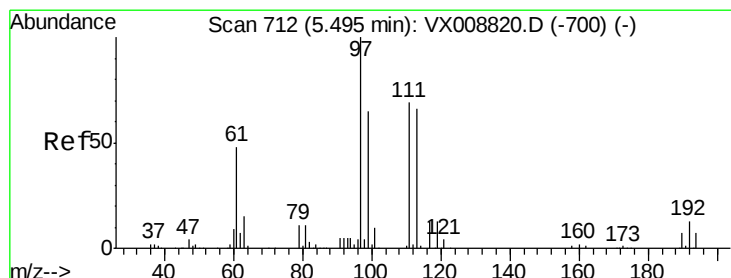
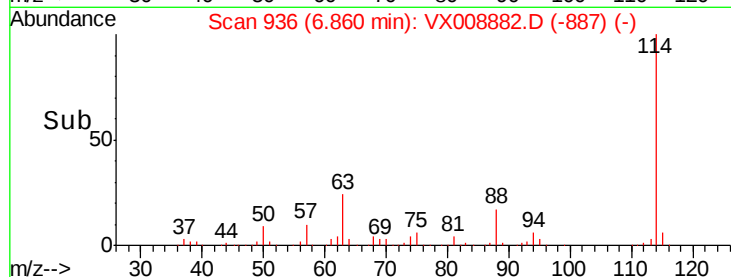
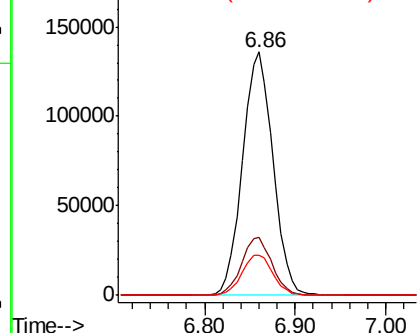
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX008882.D
Acq: 12 Apr 2019 13:34

Instrument :
MSVOA_X
ClientSampleId :
TB01-20190409

Tot Ion:114 Resp: 316164
Ion Ratio Lower Upper
114 100
63 24.1 0.0 47.2
88 16.7 0.0 34.0

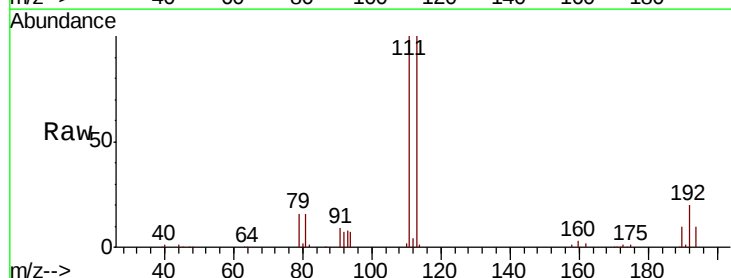


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

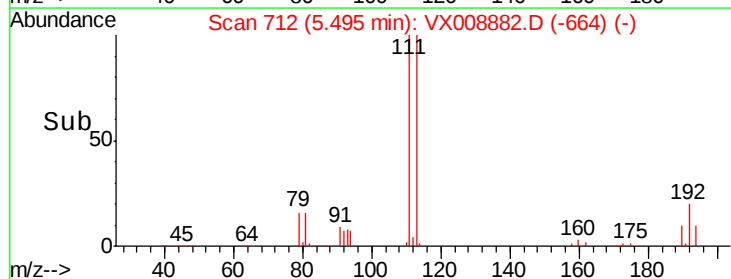
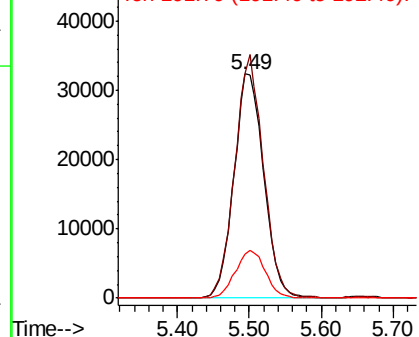


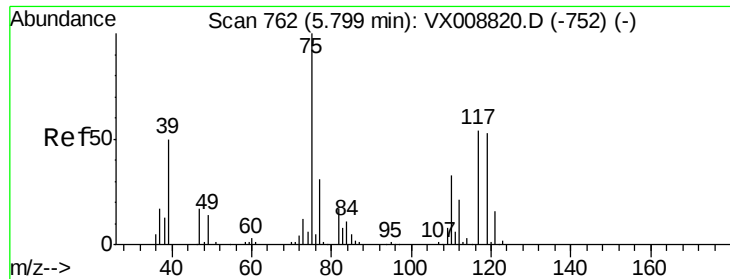
#35
Dibromofluoromethane
Concen: 46.309 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.01 min
Lab File: VX008882.D
Acq: 12 Apr 2019 13:34

Tgt Ion:113 Resp: 93611
Ion Ratio Lower Upper
113 100
111 103.1 83.4 125.2
192 21.3 16.1 24.1



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: 4.530 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008882.D

Acq: 12 Apr 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

TB01-20190409

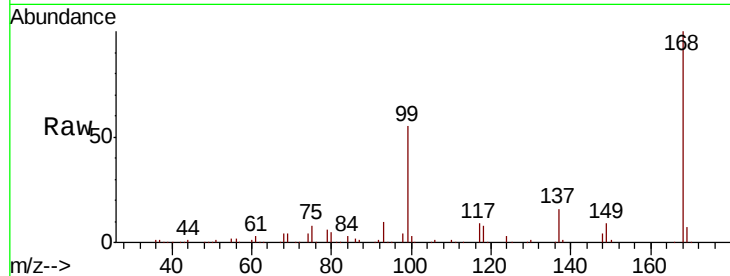
Tot Ion: 75 Resp: 15657

Ion Ratio Lower Upper

75 100

110 8.7 16.4 49.2#

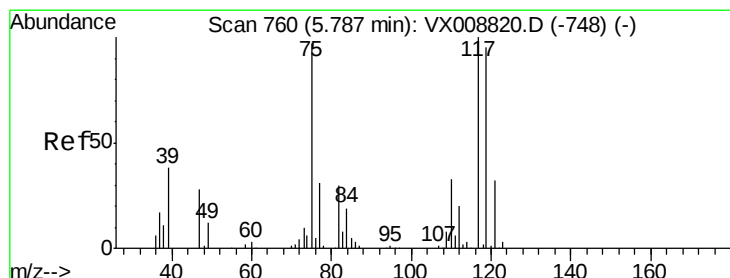
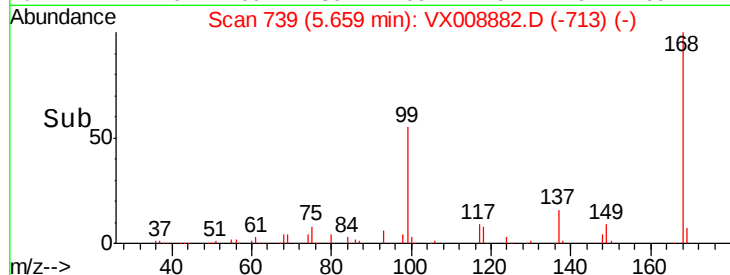
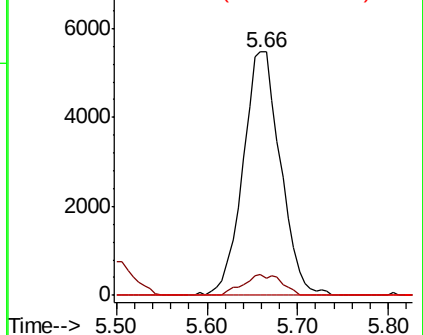
77 0.0 24.7 37.1#



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: 6.531 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008882.D

Acq: 12 Apr 2019 13:34

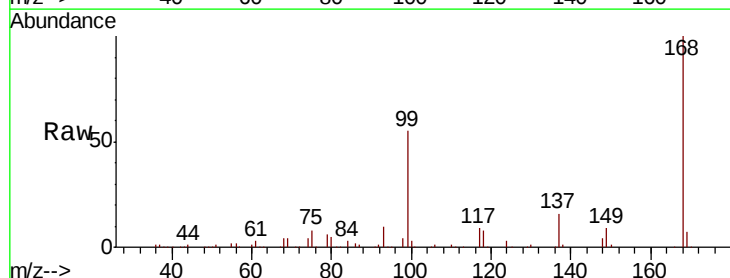
Tgt Ion: 117 Resp: 18682

Ion Ratio Lower Upper

117 100

119 4.9 75.0 112.6#

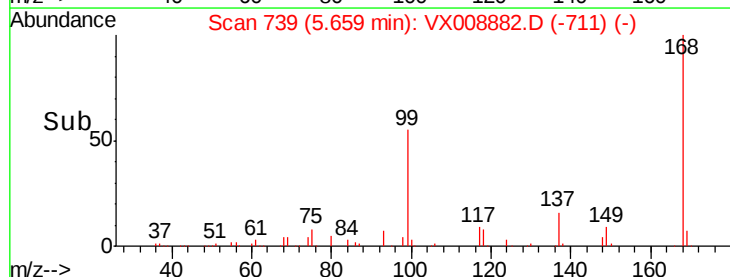
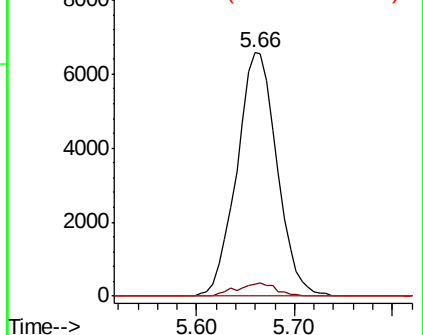
121 0.0 24.3 36.5#

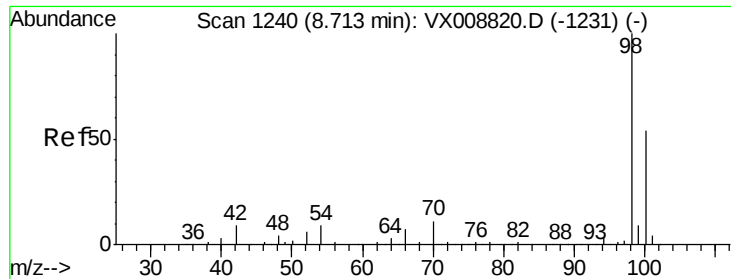


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.437 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008882.D

Acq: 12 Apr 2019 13:34

Instrument :

MSVOA_X

ClientSampleId :

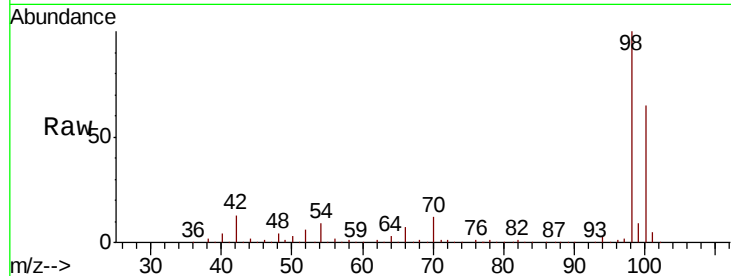
TB01-20190409

Tot Ion: 98 Resp: 397906

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

150000

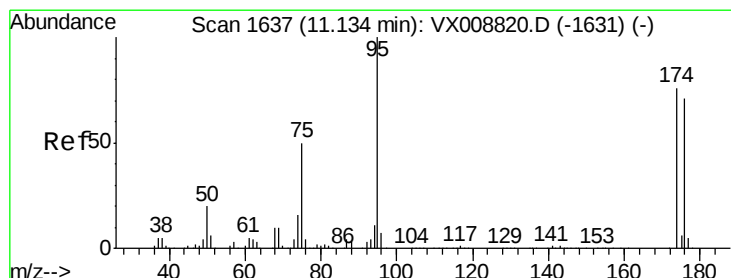
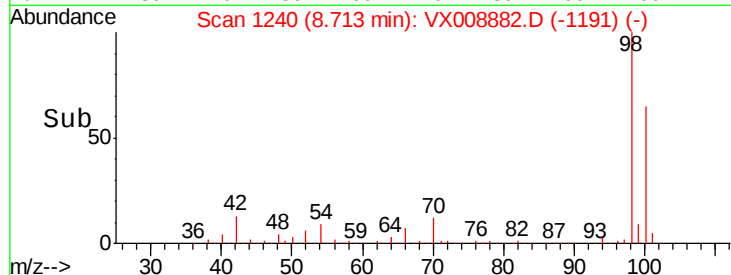
100000

50000

0

Time-->

8.60 8.70 8.80 8.90



#62

4-Bromofluorobenzene

Concen: 46.684 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008882.D

Acq: 12 Apr 2019 13:34

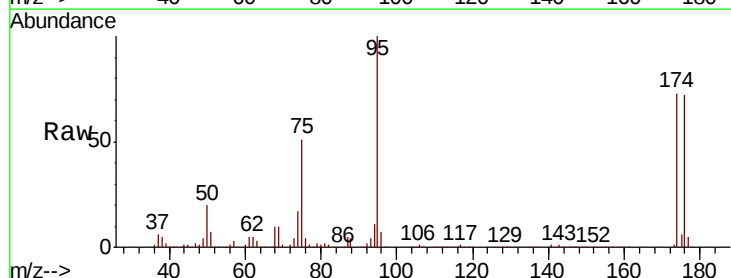
Tgt Ion: 95 Resp: 133247

Ion Ratio Lower Upper

95 100

174 79.1 0.0 151.8

176 77.2 0.0 145.8



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

11.13

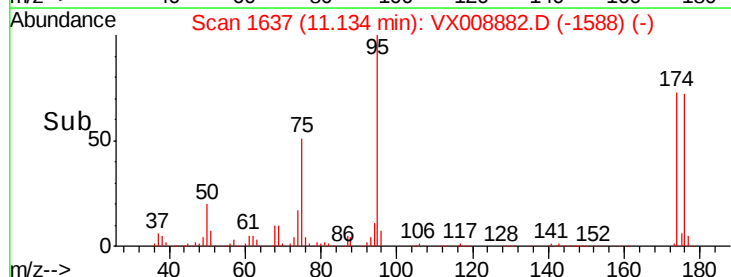
100000

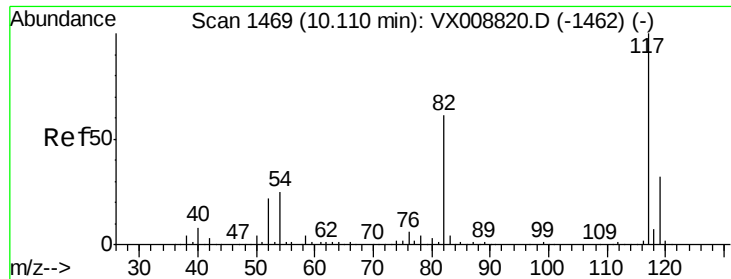
50000

0

Time-->

11.10 11.20

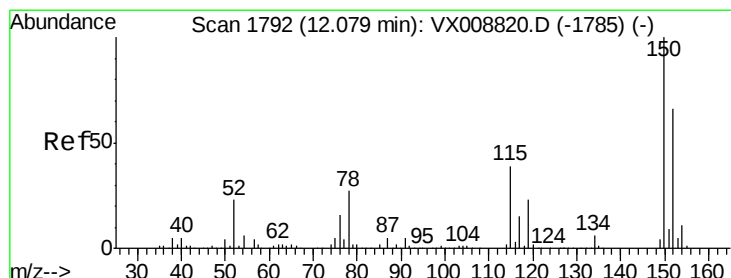
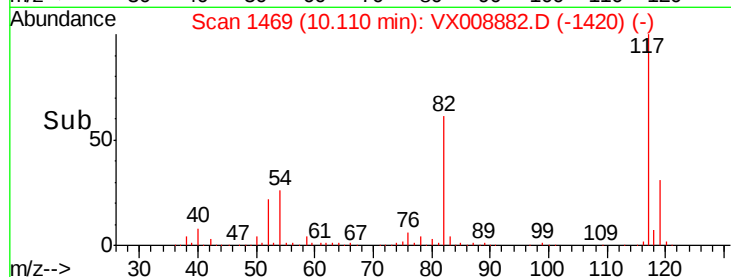
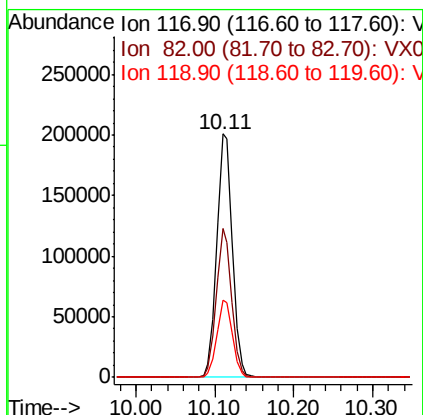
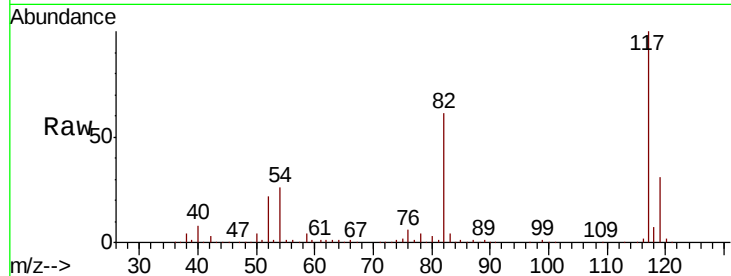




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008882.D
Acq: 12 Apr 2019 13:34

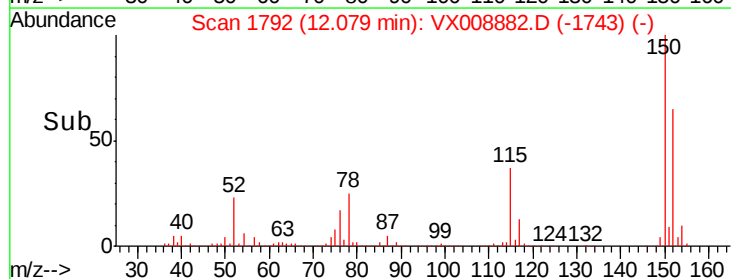
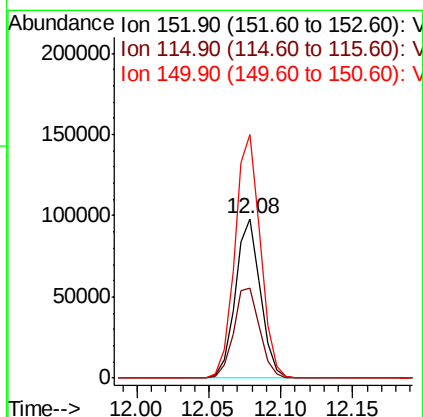
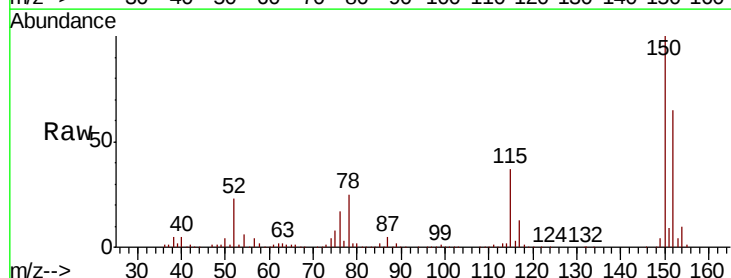
Instrument :
MSVOA_X
ClientSampleId :
TB01-20190409

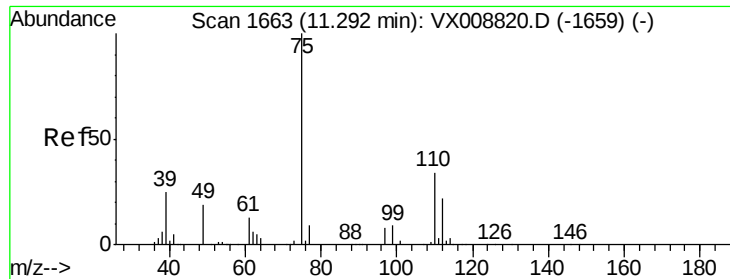
Tot Ion:117 Resp: 278345
Ion Ratio Lower Upper
117 100
82 61.1 49.6 74.4
119 31.5 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008882.D
Acq: 12 Apr 2019 13:34

Tgt Ion:152 Resp: 118722
Ion Ratio Lower Upper
152 100
115 59.1 43.5 130.5
150 155.7 0.0 348.8

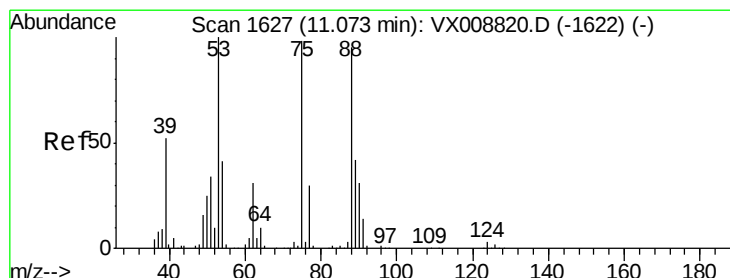
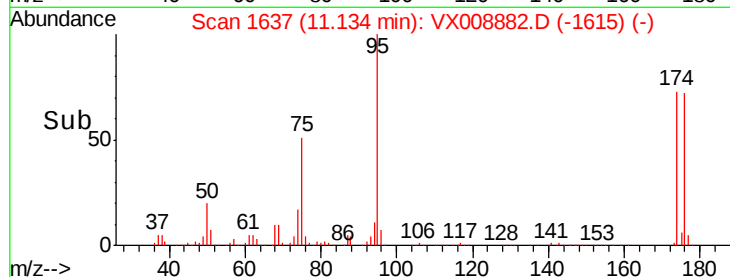
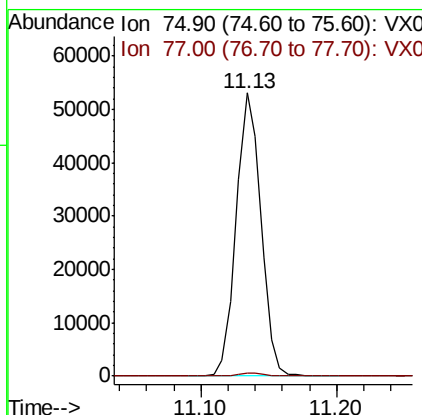
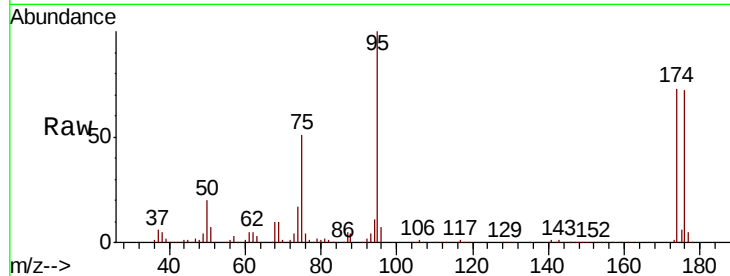




#76
 1,2,3-Trichloropropane
 Concen: 20.610 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008882.D
 Acq: 12 Apr 2019 13:34

Instrument :
 MSVOA_X
 ClientSampleId :
 TB01-20190409

Tot Ion: 75 Resp: 67218
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.3 66.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.813 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008882.D
 Acq: 12 Apr 2019 13:34

Tgt Ion: 75 Resp: 67218
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.3 121.9#
 89 0.0 35.6 53.4#

