

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041319\
 Data File : VX008946.D
 Acq On : 13 Apr 2019 20:49
 Operator : JC/SP
 Sample : K2385-12 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 14 04:17:24 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	5.67	168	194966	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	309183	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	268948	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113431	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	124580	43.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.62%	
35) Dibromofluoromethane	5.50	113	91769	46.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.84%	
50) Toluene-d8	8.71	98	386106	49.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.10%	
62) 4-Bromofluorobenzene	11.13	95	127350	45.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.26%	

Target Compounds

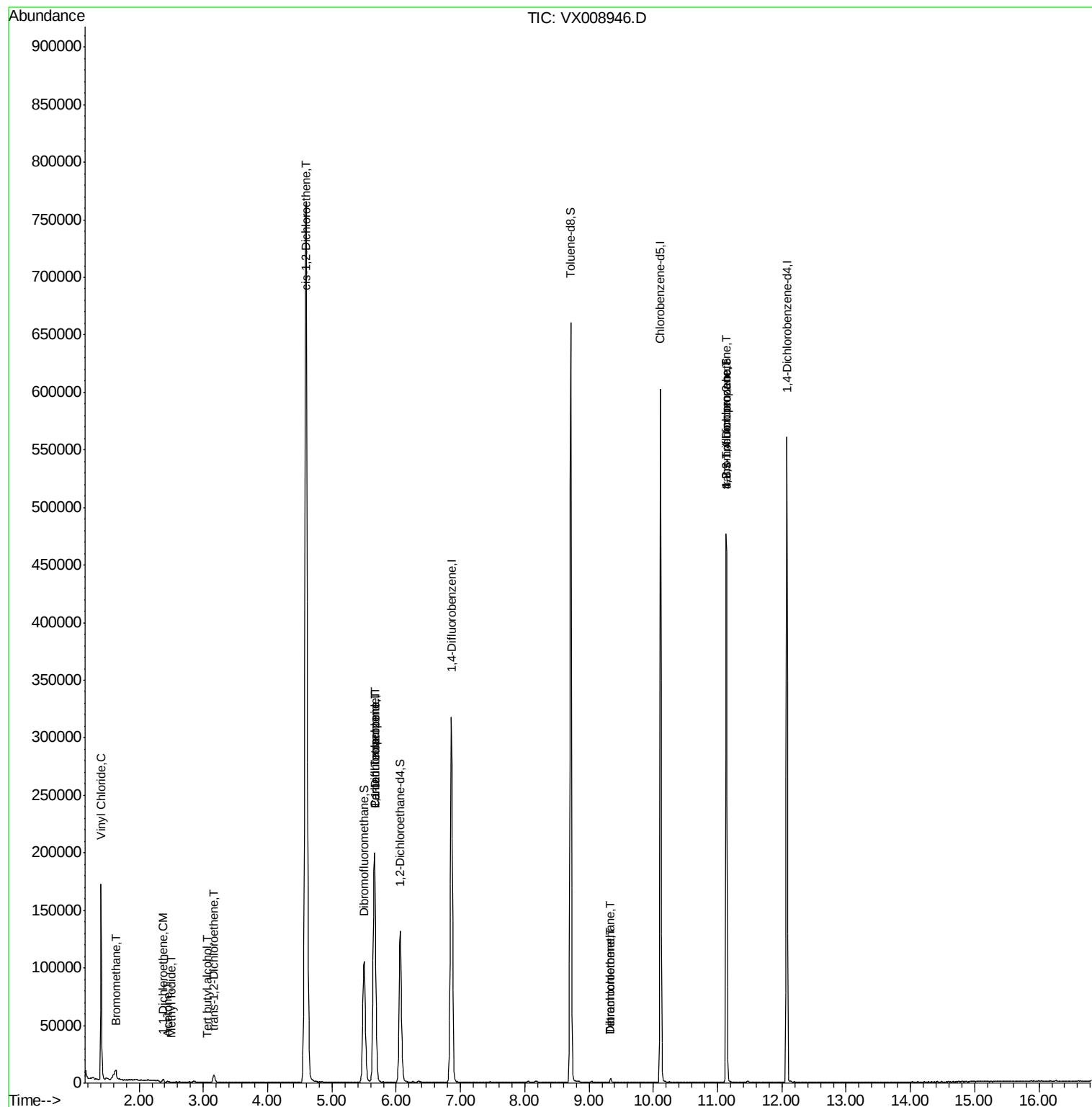
					Qvalue	
3) Chloromethane	1.32	50	251	Below Cal	#	88
4) Vinyl Chloride	1.40	62	121197	39.949	ug/l	99
5) Bromomethane	1.64	94	259	2.052	ug/l	83
6) Chloroethane	1.62	64	512	Below Cal	#	27
10) Methyl Iodide	2.51	142	44	4.024	ug/l #	42
11) Tert butyl alcohol	3.06	59	199	0.299	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	801	0.355	ug/l	90
16) Acetone	2.45	43	710	0.433	ug/l #	83
17) Carbon Disulfide	2.56	76	326	Below Cal	#	75
21) trans-1,2-Dichloroethene	3.17	96	2567	1.053	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	479432	171.038	ug/l	89
28) Bromochloromethane	5.11	49	19	Below Cal	#	22
36) 1,1-Dichloropropene	5.66	75	15159	4.485	ug/l #	51
38) Carbon Tetrachloride	5.67	117	18432	6.589	ug/l #	17
60) Dibromochloromethane	9.33	129	551	0.245	ug/l #	11
64) Tetrachloroethene	9.34	164	586	0.294	ug/l #	79
76) 1,2,3-Trichloropropane	11.13	75	64972	20.851	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64972	57.476	ug/l #	9

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

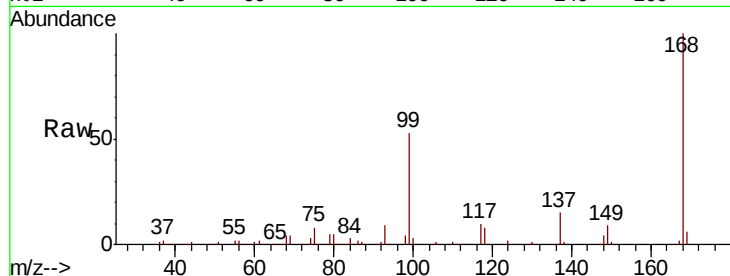
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 194966

Ion Ratio Lower Upper

168 100

99 53.2 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

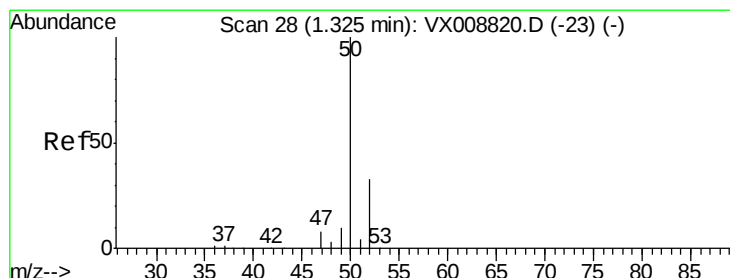
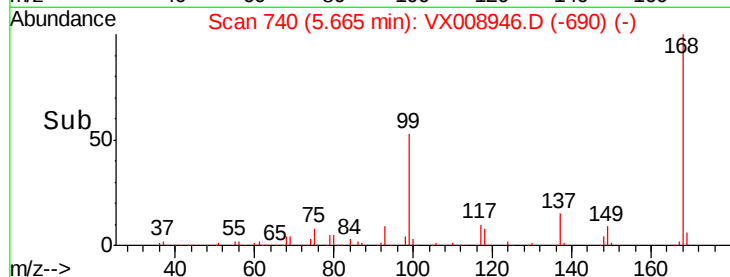
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008946.D

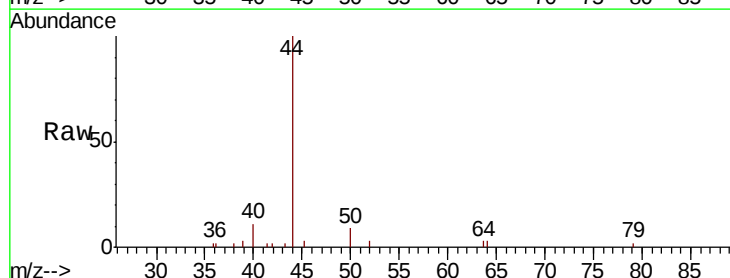
Acq: 13 Apr 2019 20:49

Tgt Ion: 50 Resp: 251

Ion Ratio Lower Upper

50 100

52 38.9 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

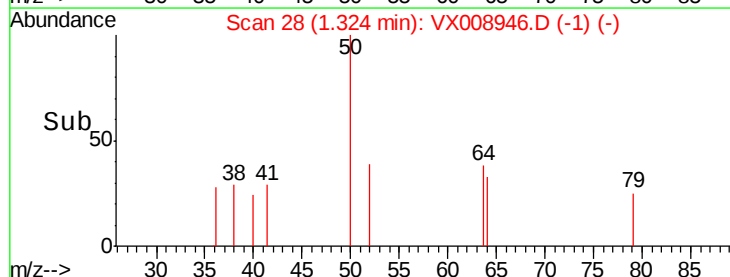
150

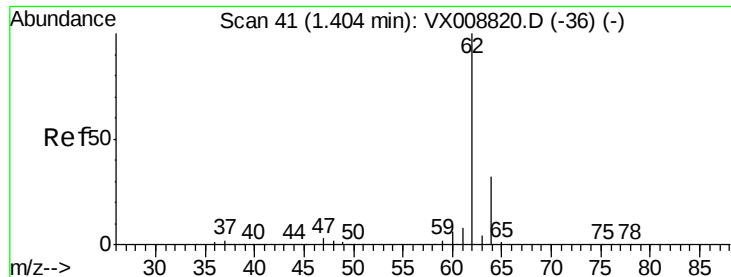
100

50

0

Time--> 1.30 1.32 1.34 1.36





#4

Vinyl Chloride

Concen: 39.949 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

Instrument :

MSVOA_X

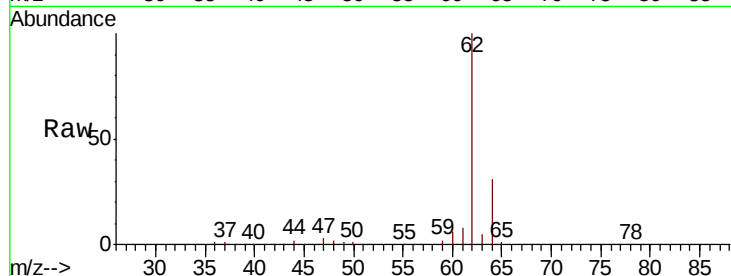
ClientSampleID :

Tot Ion: 62 Resp: 121197

Ion Ratio Lower Upper

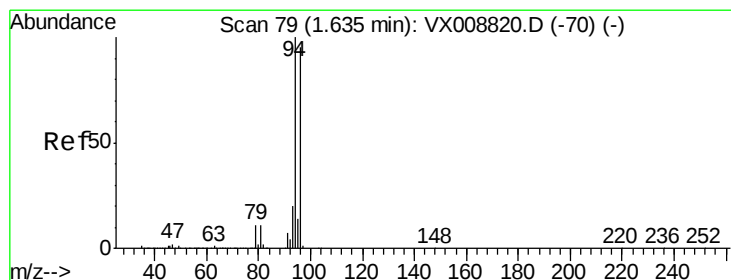
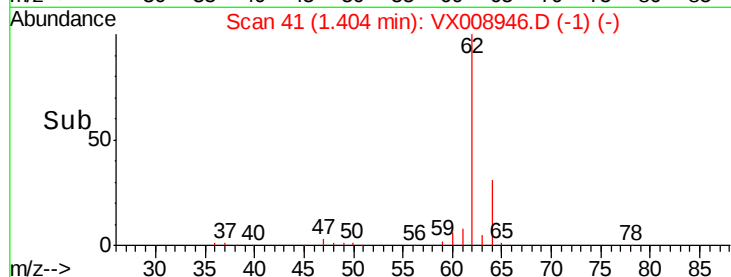
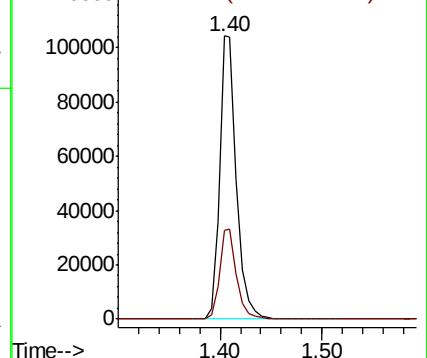
62 100

64 31.3 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 2.052 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008946.D

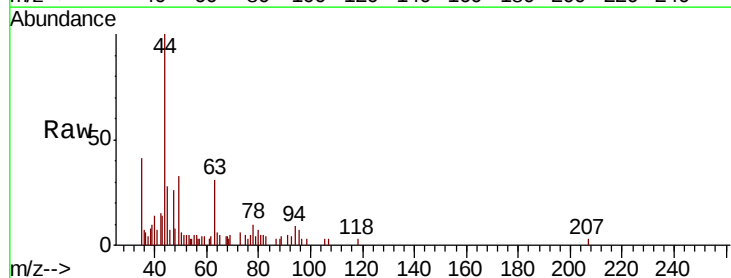
Acq: 13 Apr 2019 20:49

Tgt Ion: 94 Resp: 259

Ion Ratio Lower Upper

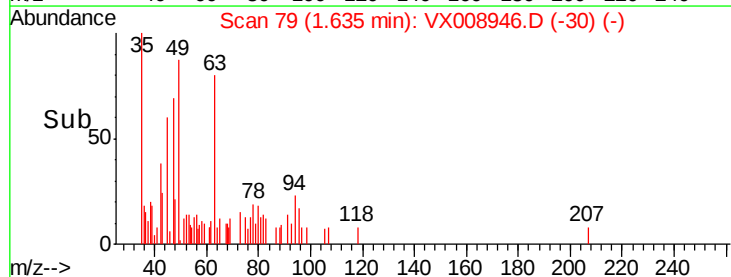
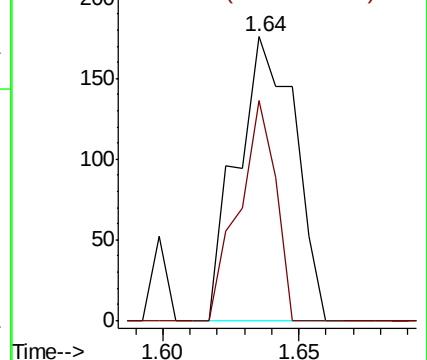
94 100

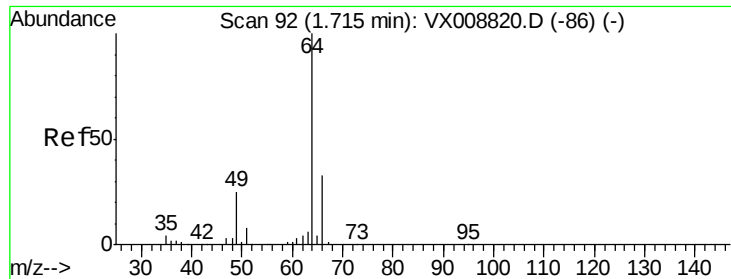
96 77.3 75.2 112.8



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: 1.62 min Scan# 76

Delta R.T. -0.10 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

Instrument :

MSVOA_X

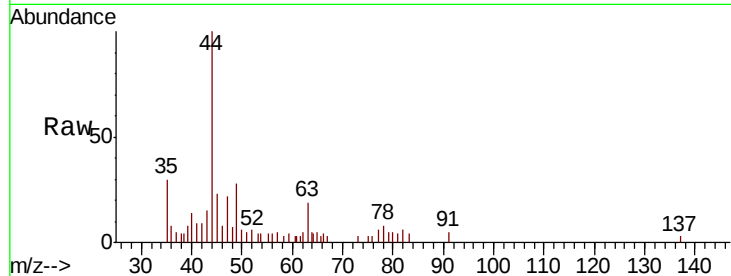
ClientSampleId :

Tot Ion: 64 Resp: 512

Ion Ratio Lower Upper

64 100

66 72.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.62

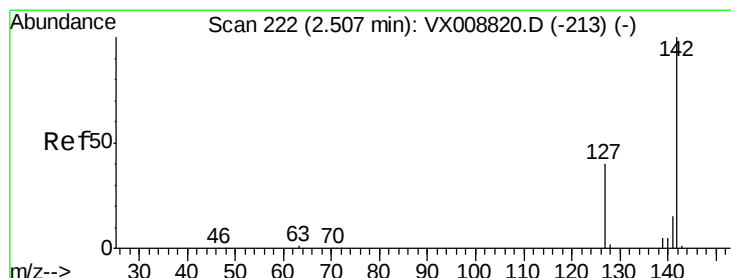
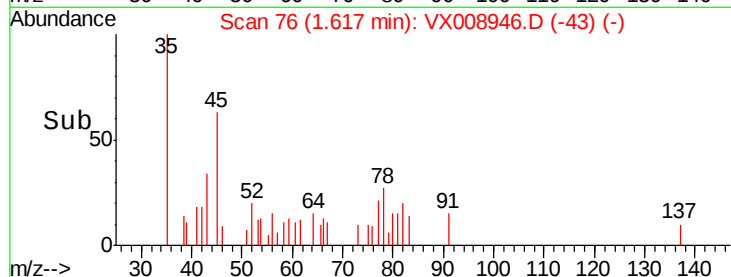
150

100

50

0

Time-->



#10

Methyl Iodide

Concen: 4.024 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

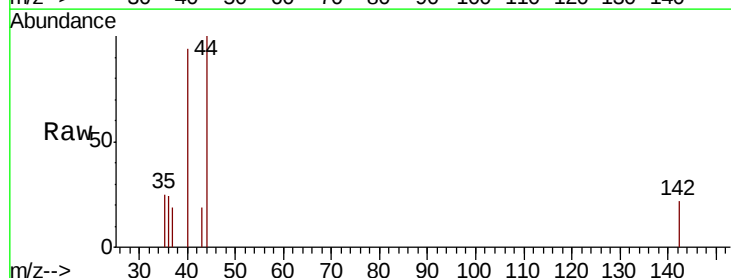
Tgt Ion: 142 Resp: 44

Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

141 0.0 11.4 17.2#



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

2.51

80

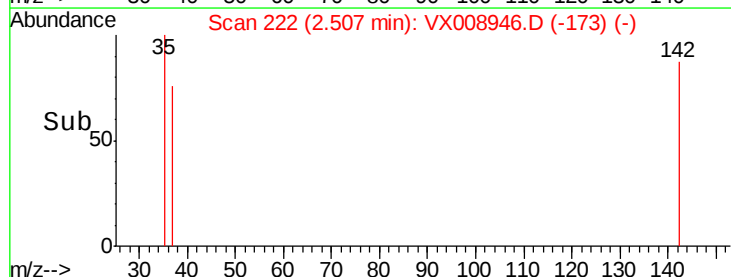
60

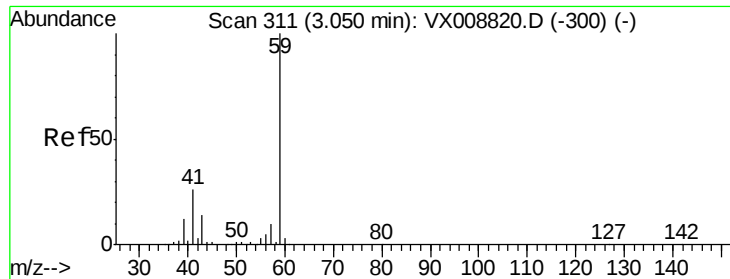
40

20

0

Time-->

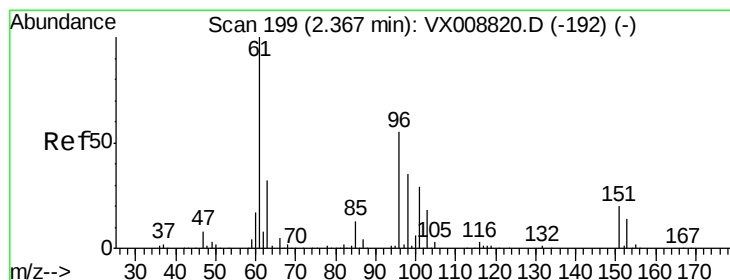
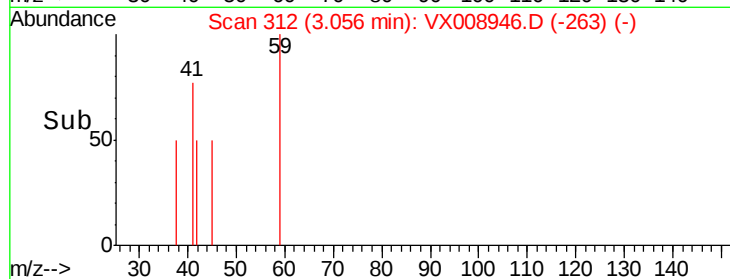
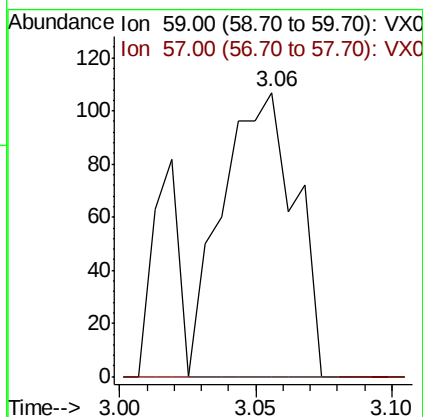
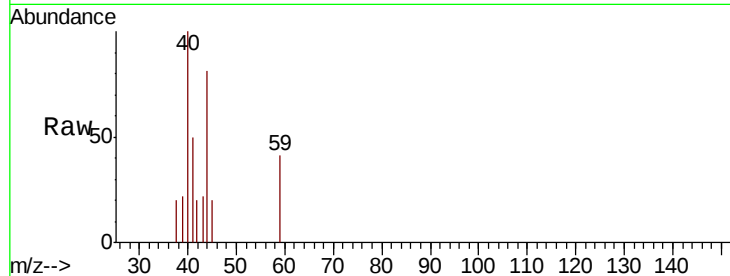




#11
Tert butyl alcohol
Concen: 0.299 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.00 min
Lab File: VX008946.D
Acq: 13 Apr 2019 20:49

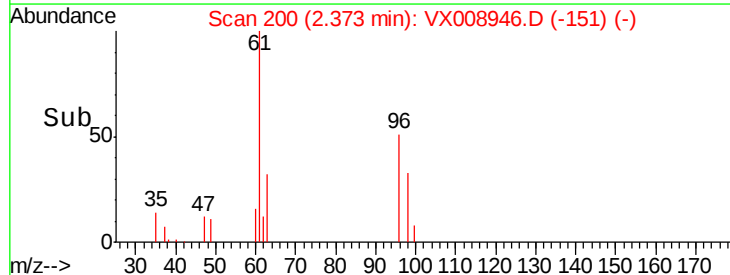
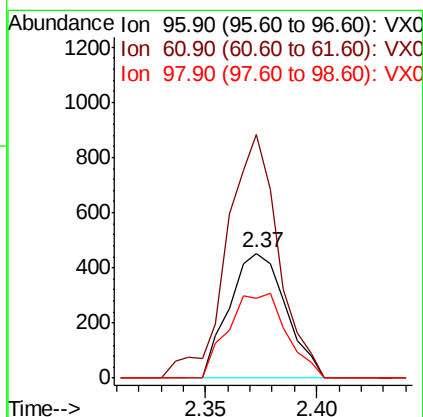
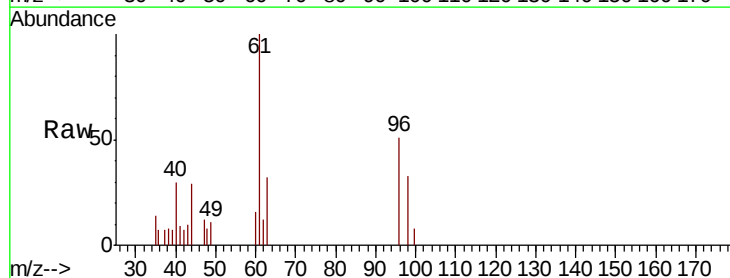
Instrument :
MSVOA_X
ClientSampleId :

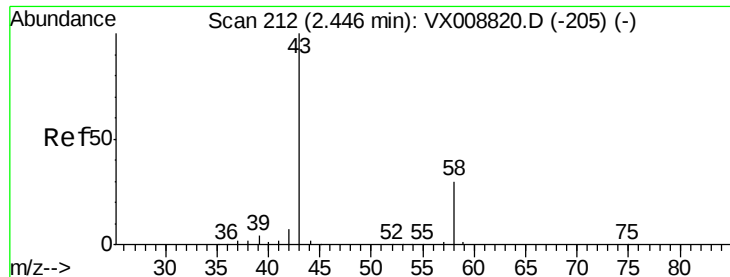
Tot Ion: 59 Resp: 199
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 0.355 ug/l
RT: 2.37 min Scan# 200
Delta R.T. -0.00 min
Lab File: VX008946.D
Acq: 13 Apr 2019 20:49

Tgt Ion: 96 Resp: 801
Ion Ratio Lower Upper
96 100
61 195.4 140.9 211.3
98 63.9 52.1 78.1





#16

Acetone

Concen: 0.433 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

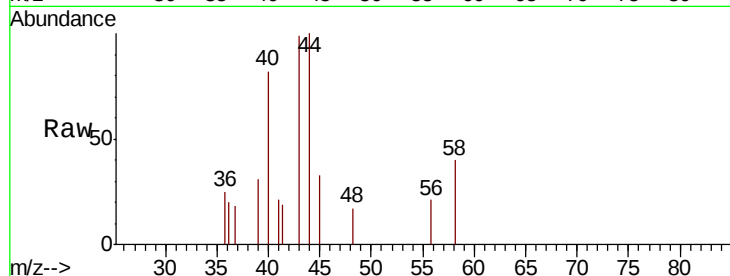
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 710

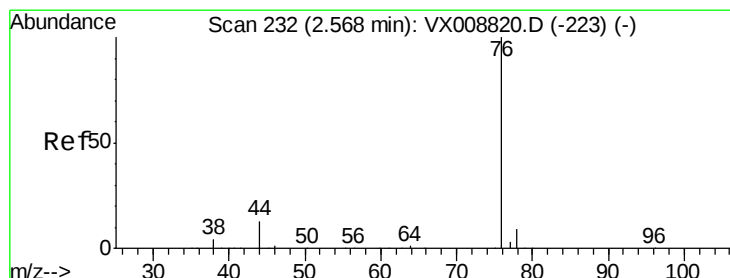
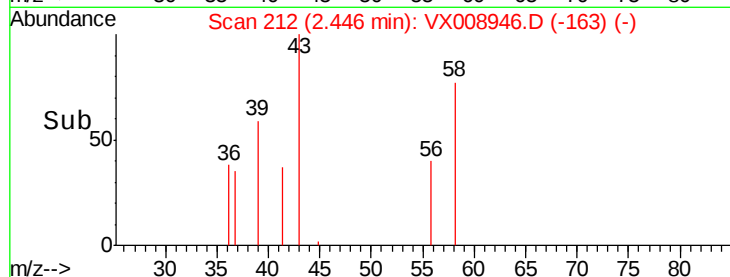
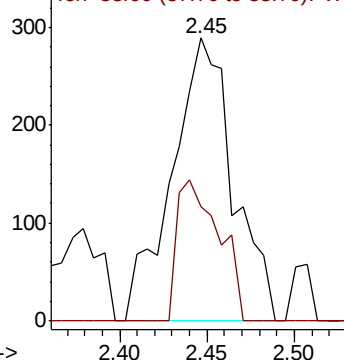
Ion Ratio Lower Upper

43 100

58 40.5 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: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX008946.D

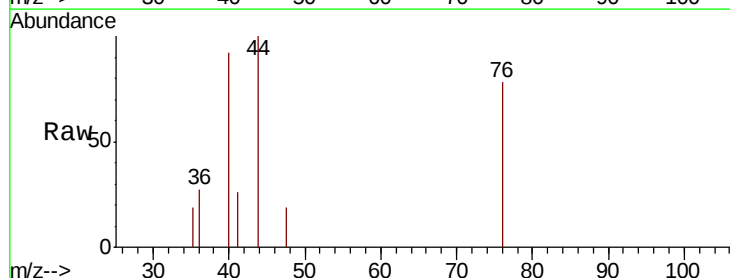
Acq: 13 Apr 2019 20:49

Tgt Ion: 76 Resp: 326

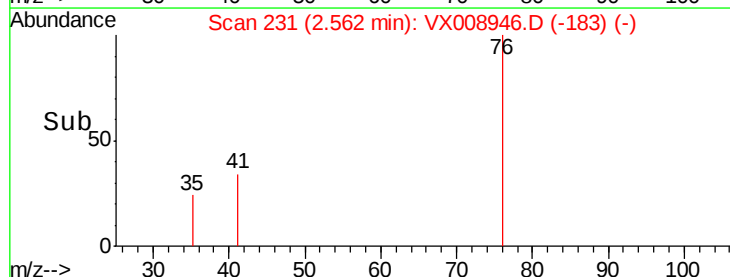
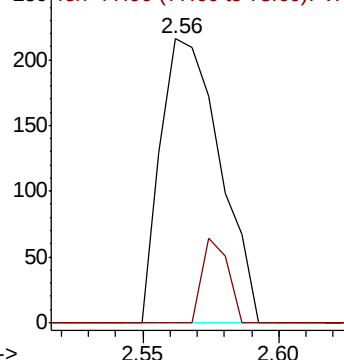
Ion Ratio Lower Upper

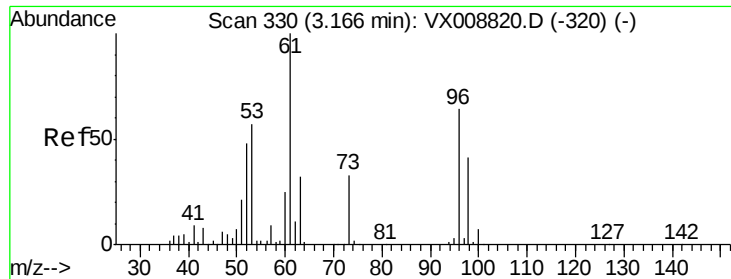
76 100

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





#21

trans-1,2-Dichloroethene

Concen: 1.053 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

Instrument :

MSVOA_X

ClientSampleId :

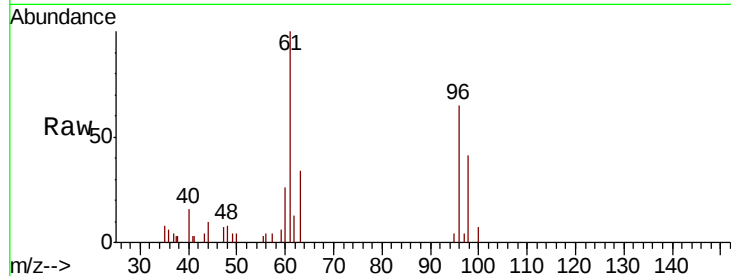
Tot Ion: 96 Resp: 2567

Ion Ratio Lower Upper

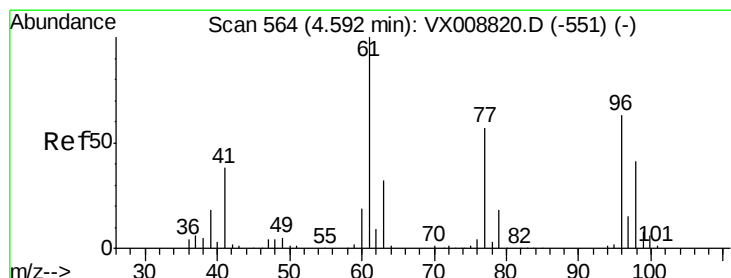
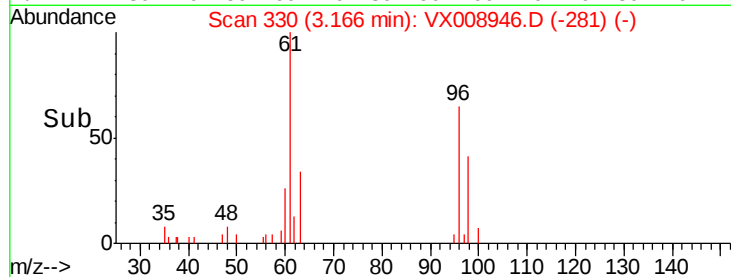
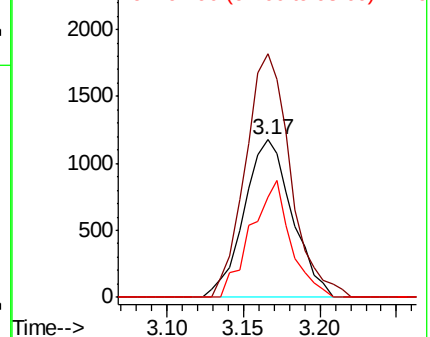
96 100

61 154.7 132.1 198.1

98 63.8 52.2 78.2



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



#27

cis-1,2-Dichloroethene

Concen: 171.038 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

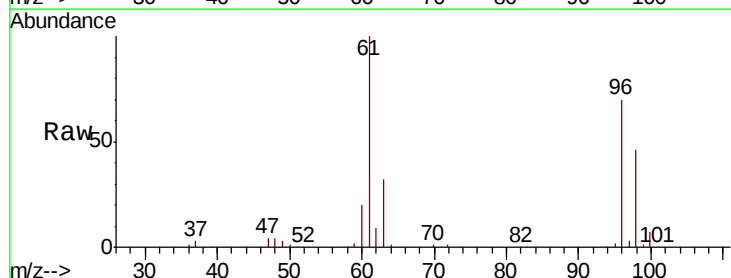
Tgt Ion: 96 Resp: 479432

Ion Ratio Lower Upper

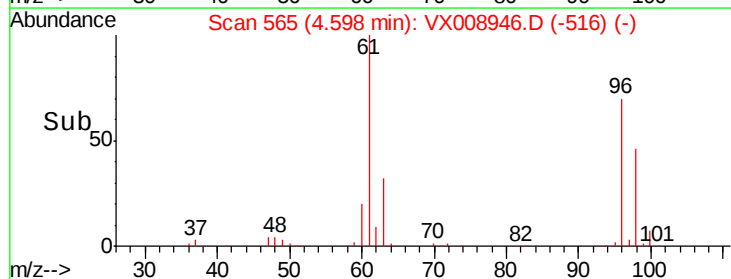
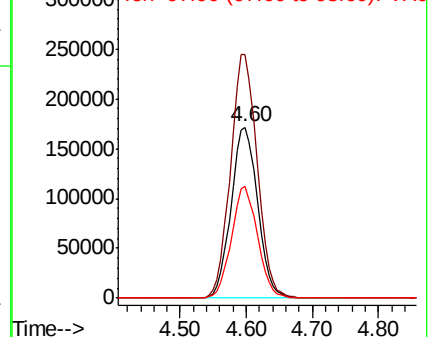
96 100

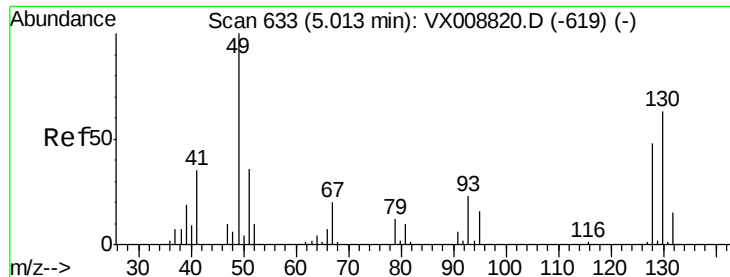
61 142.7 0.0 327.6

98 64.3 0.0 128.6



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





#28

Bromochloromethane

Concen: Below Cal

RT: 5.11 min Scan# 649

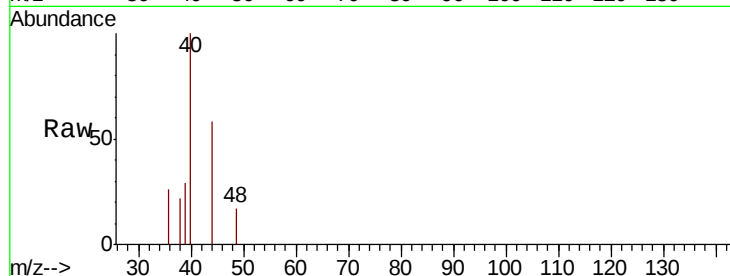
Delta R.T. 0.09 min

Lab File: VX008946.D

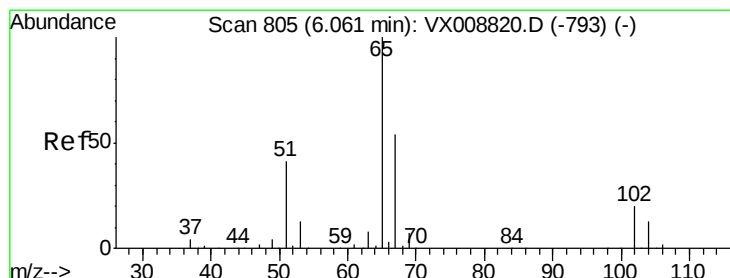
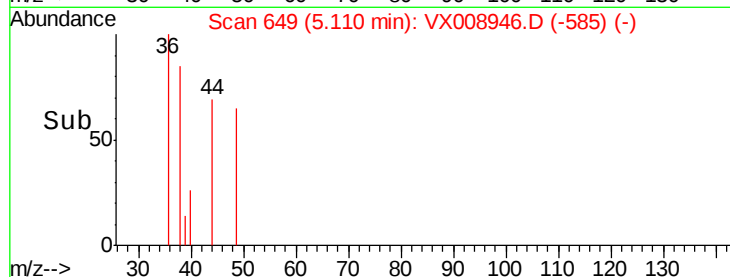
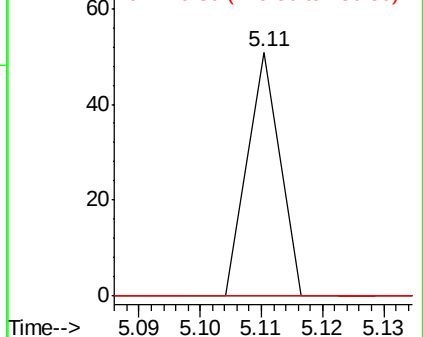
Acq: 13 Apr 2019 20:49

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 19
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



#33

1,2-Dichloroethane-d4

Concen: 43.809 ug/l

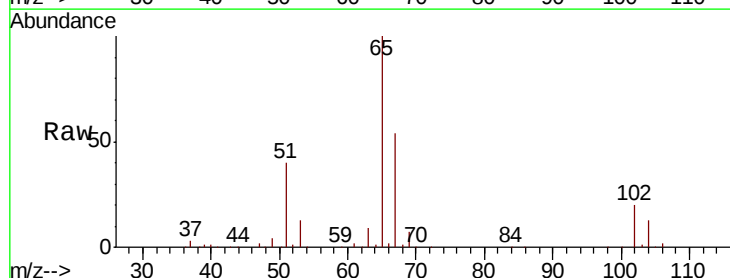
RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

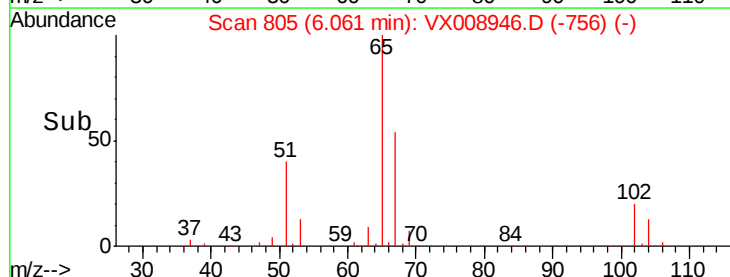
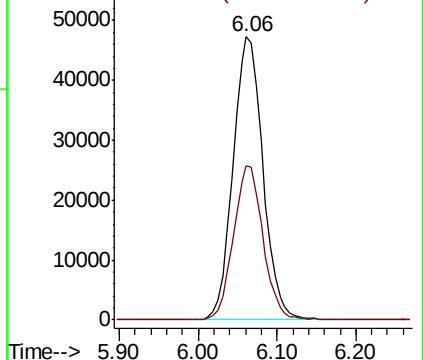
Lab File: VX008946.D

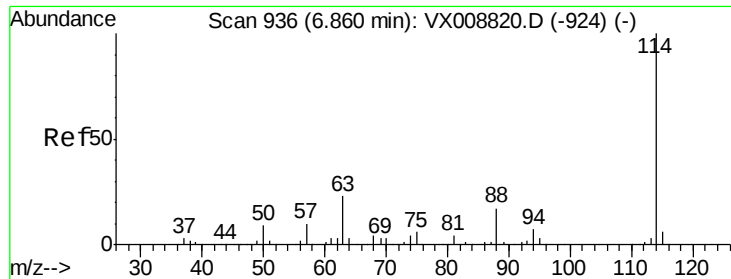
Acq: 13 Apr 2019 20:49

Tgt Ion: 65 Resp: 124580
Ion Ratio Lower Upper
65 100
67 53.7 0.0 107.2



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

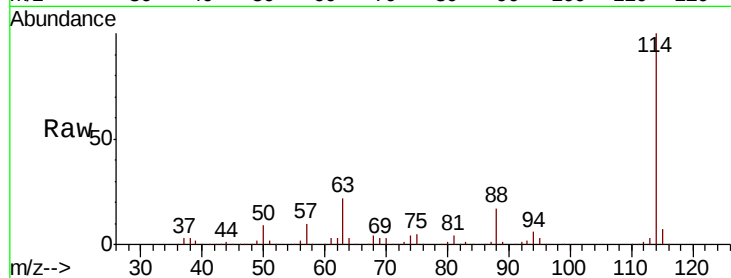




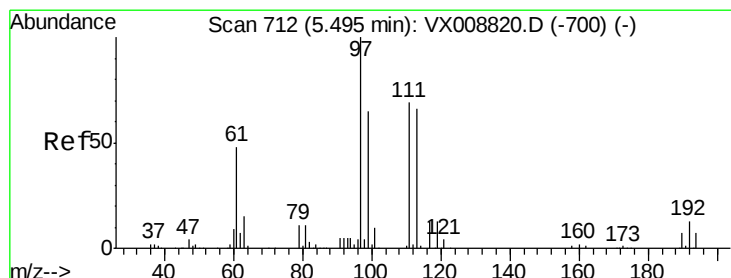
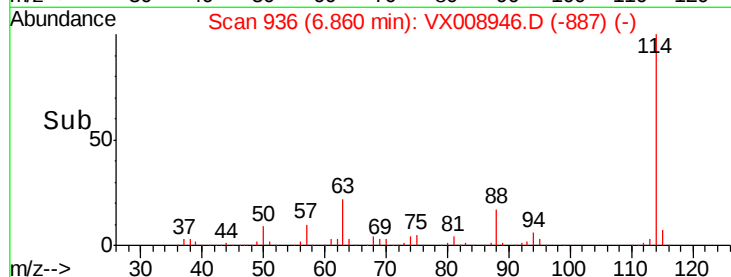
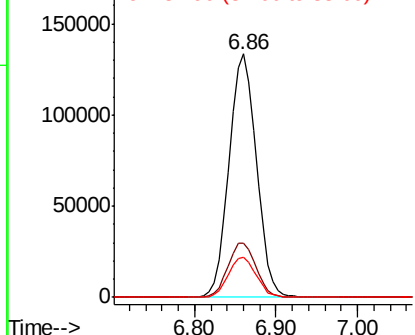
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008946.D
 Acq: 13 Apr 2019 20:49

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 309183
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 47.2
 88 16.6 0.0 34.0

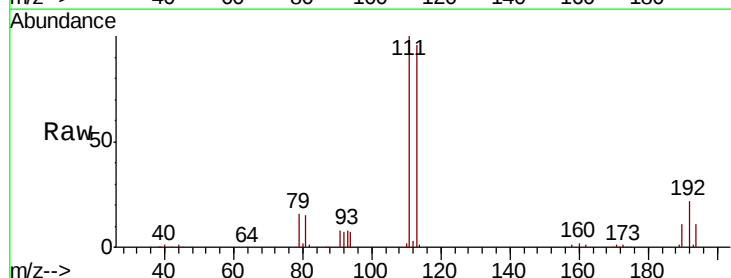


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

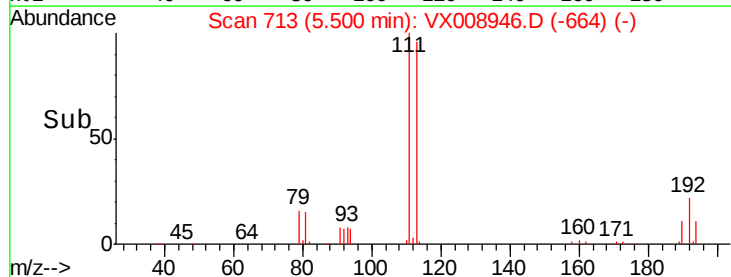
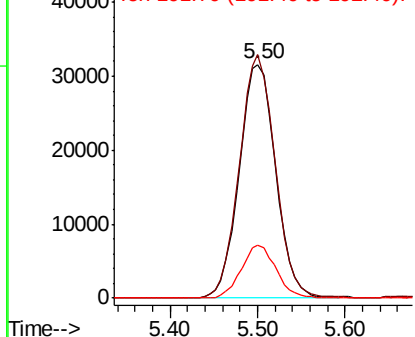


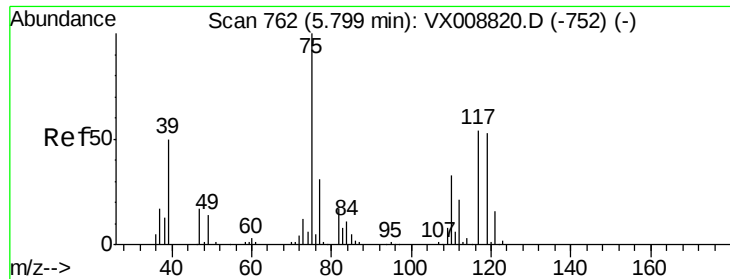
#35
 Dibromofluoromethane
 Concen: 46.423 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008946.D
 Acq: 13 Apr 2019 20:49

Tgt Ion:113 Resp: 91769
 Ion Ratio Lower Upper
 113 100
 111 102.3 83.4 125.2
 192 21.4 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: 4.485 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

Instrument :

MSVOA_X

ClientSampleId :

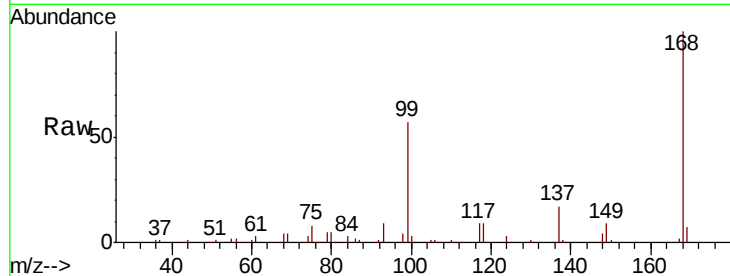
Tot Ion: 75 Resp: 15159

Ion Ratio Lower Upper

75 100

110 8.8 16.4 49.2#

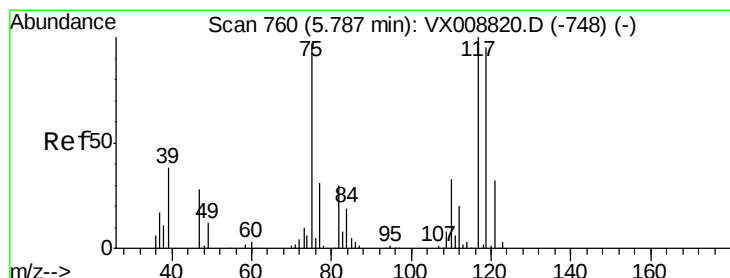
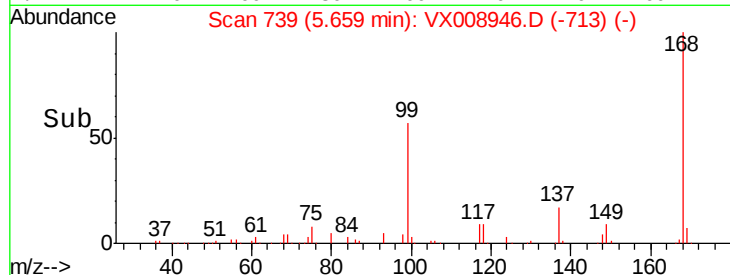
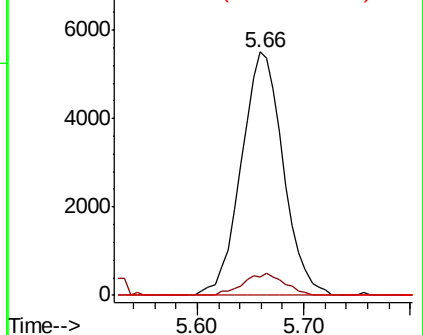
77 0.0 24.7 37.1#



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: 6.589 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

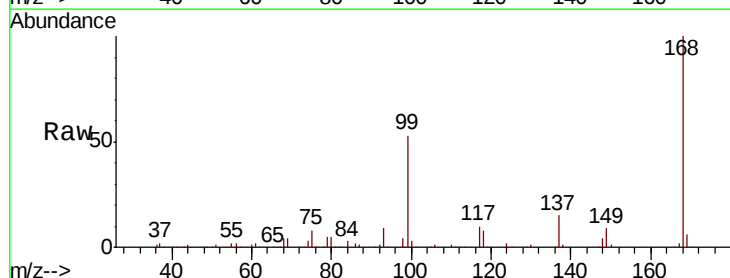
Tgt Ion:117 Resp: 18432

Ion Ratio Lower Upper

117 100

119 4.8 75.0 112.6#

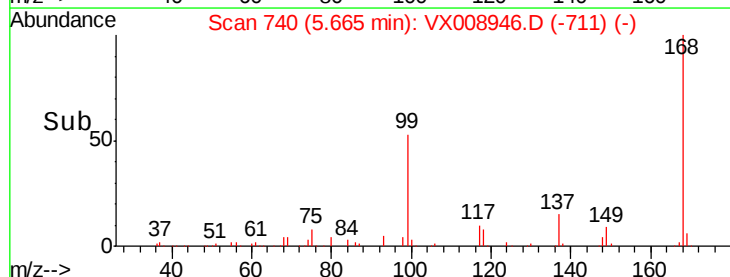
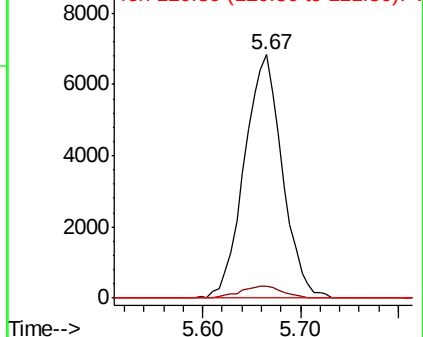
121 0.0 24.3 36.5#

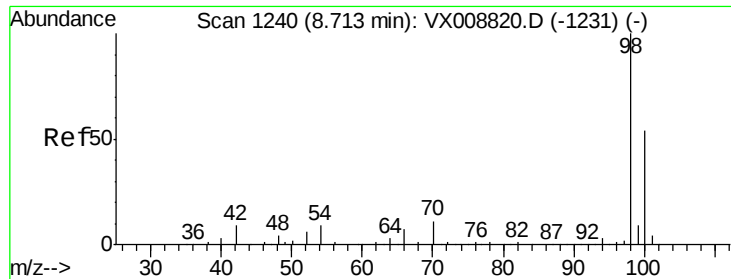


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

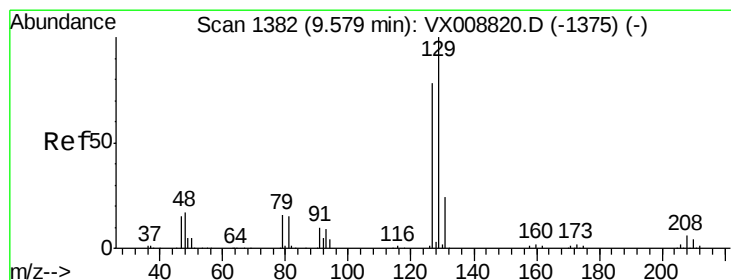
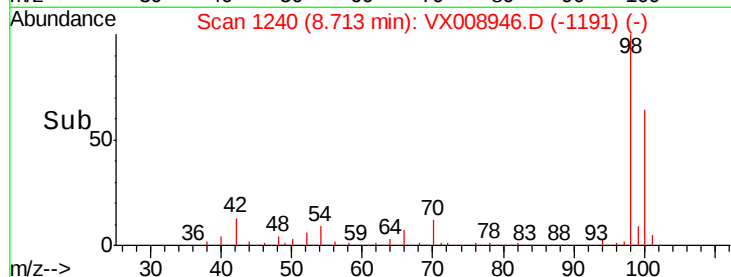
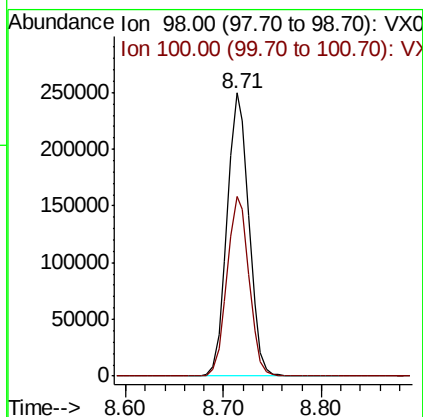
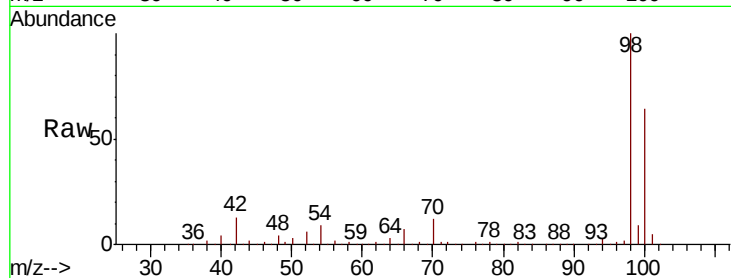




#50
Toluene-d8
Concen: 49.054 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008946.D
Acq: 13 Apr 2019 20:49

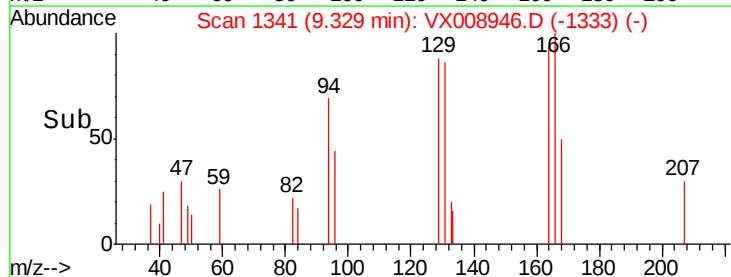
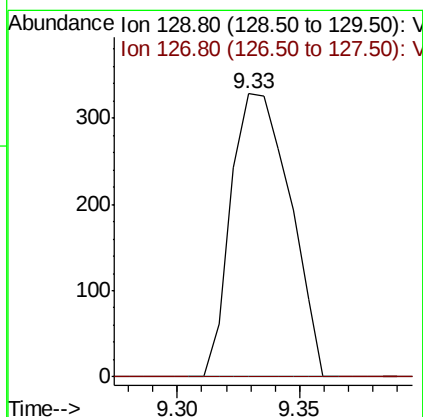
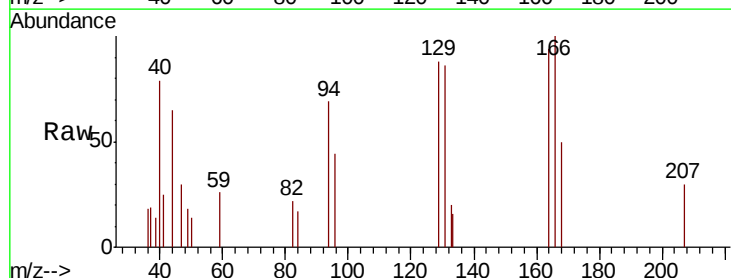
Instrument :
MSVOA_X
ClientSampled :

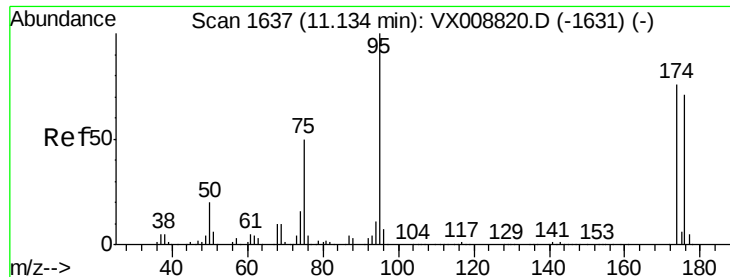
Tot Ion: 98 Resp: 386106
Ion Ratio Lower Upper
98 100
100 64.0 51.4 77.0



#60
Dibromochloromethane
Concen: 0.245 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.25 min
Lab File: VX008946.D
Acq: 13 Apr 2019 20:49

Tgt Ion:129 Resp: 551
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 45.625 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

Instrument :

MSVOA_X

ClientSampled :

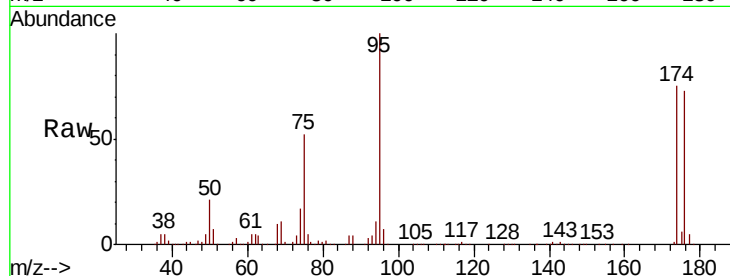
Tot Ion: 95 Resp: 127350

Ion Ratio Lower Upper

95 100

174 80.4 0.0 151.8

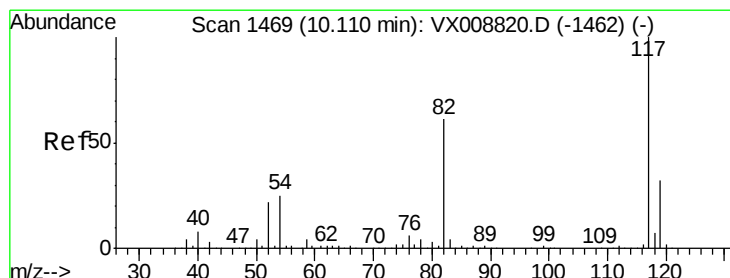
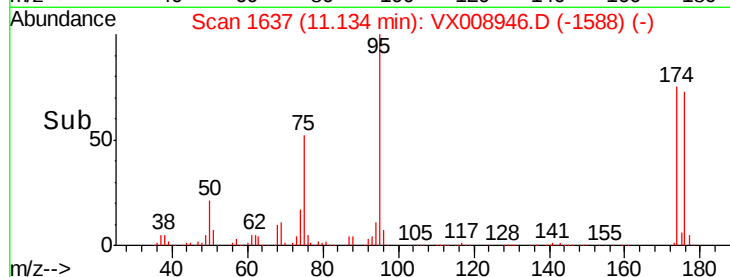
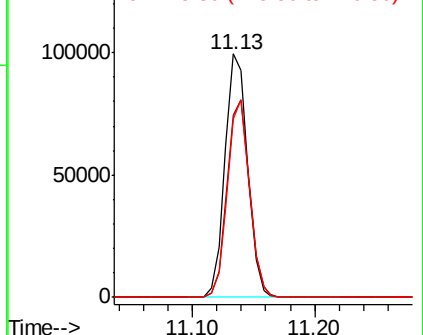
176 78.7 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008820.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX008820.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX008820.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

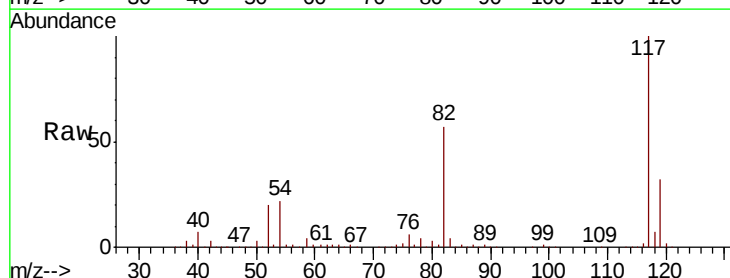
Tgt Ion: 117 Resp: 268948

Ion Ratio Lower Upper

117 100

82 56.6 49.6 74.4

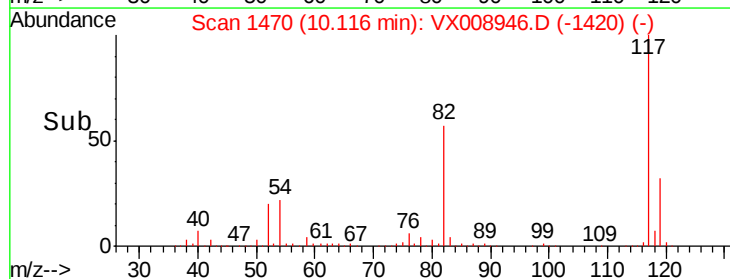
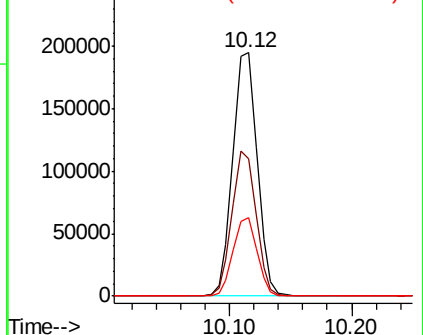
119 32.3 25.0 37.4

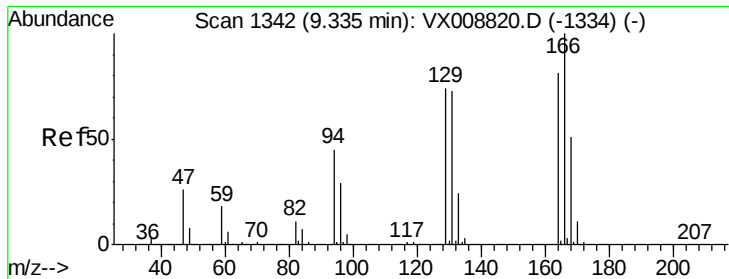


Abundance Ion 116.90 (116.60 to 117.60): VX008820.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008820.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008820.D (-1462) (-)





#64

Tetrachloroethene

Concen: 0.294 ug/l

RT: 9.34 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VX008946.D

Acq: 13 Apr 2019 20:49

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 586

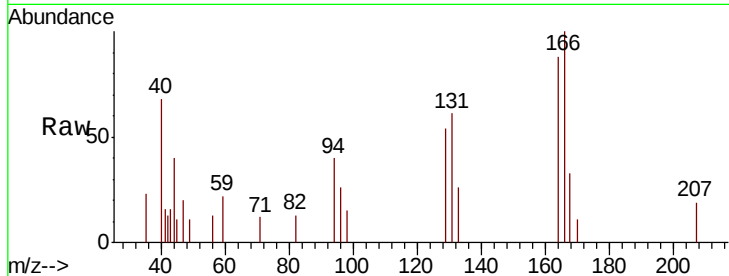
Ion Ratio Lower Upper

164 100

166 113.2 101.0 151.6

129 61.5 75.8 113.8#

131 69.6 71.8 107.8#



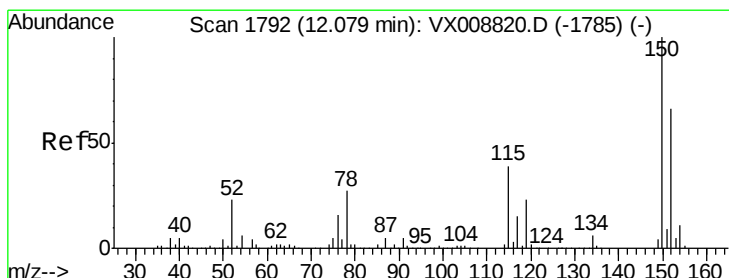
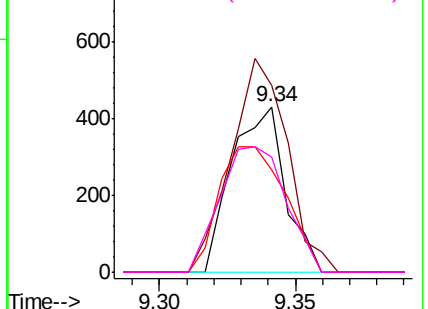
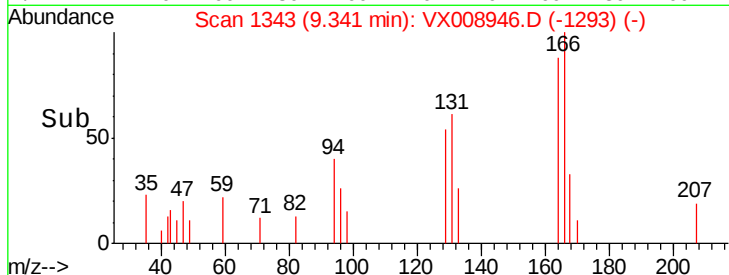
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX008946.D

Acq: 13 Apr 2019 20:49

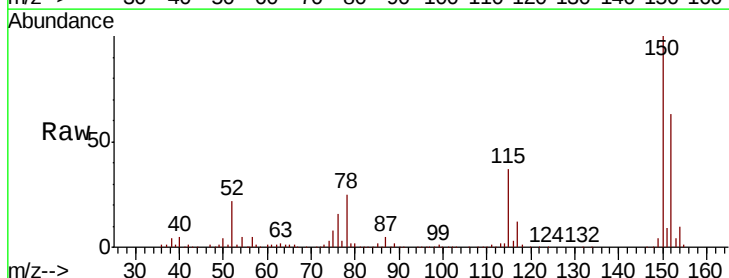
Tgt Ion:152 Resp: 113431

Ion Ratio Lower Upper

152 100

115 59.6 43.5 130.5

150 158.4 0.0 348.8

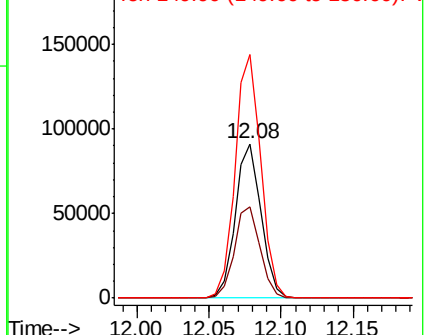
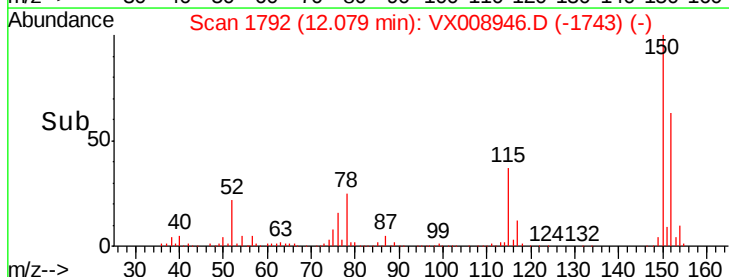


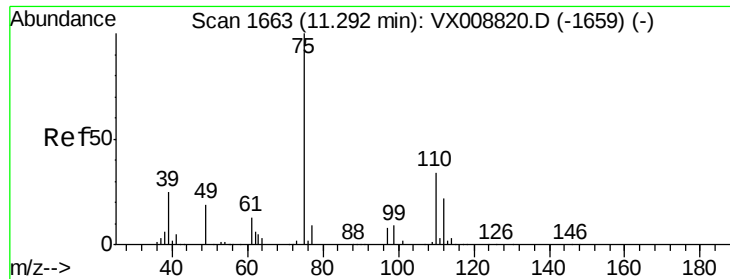
Abundance

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

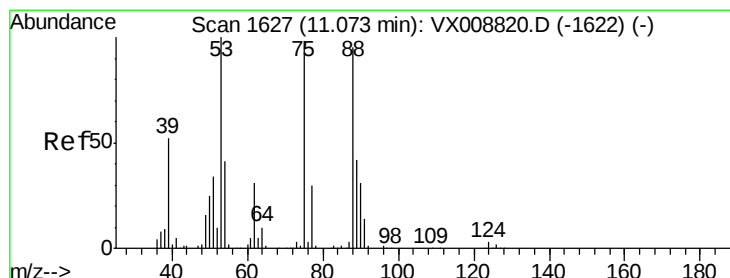
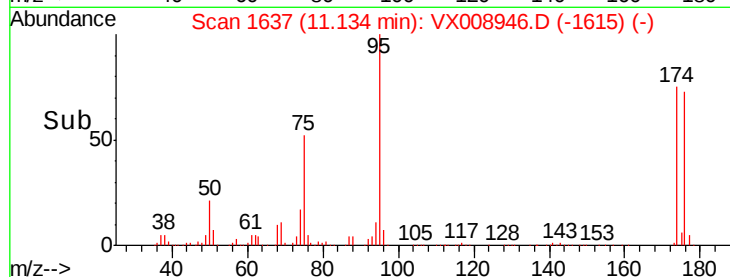
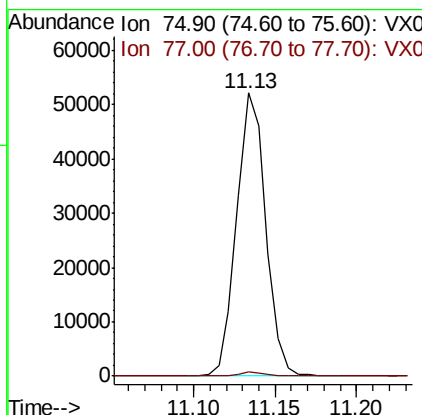
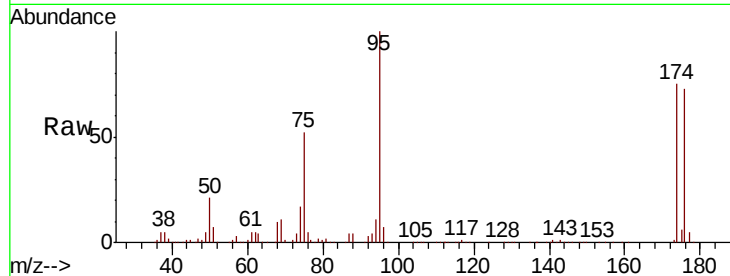




#76
 1,2,3-Trichloropropane
 Concen: 20.851 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008946.D
 Acq: 13 Apr 2019 20:49

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 64972
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.3 66.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.476 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008946.D
 Acq: 13 Apr 2019 20:49

Tgt Ion: 75 Resp: 64972
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.3 121.9#
 89 0.0 35.6 53.4#

