

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040619\
 Data File : VX008727.D
 Acq On : 06 Apr 2019 17:48
 Operator : JC/SP
 Sample : K2295-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008RW256-190404

Quant Time: Apr 08 01:56:03 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	206757	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	344540	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	298700	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	125785	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	142288	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
35) Dibromofluoromethane	5.50	113	104137	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
50) Toluene-d8	8.71	98	433179	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
62) 4-Bromofluorobenzene	11.13	95	144222	46.37	ug/l	0.00
Spiked Amount			Recovery	=	92.74%	

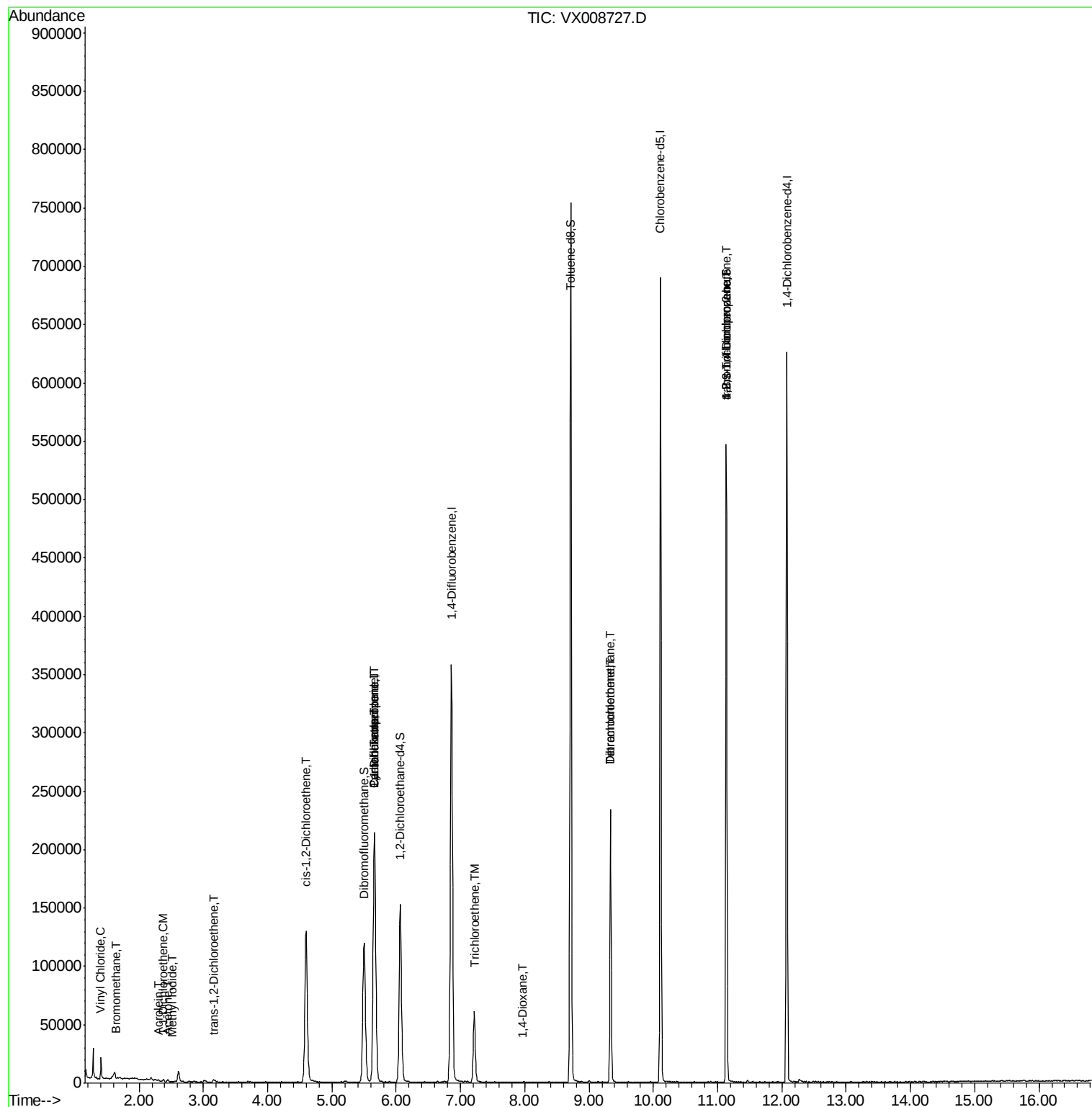
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	788	Below Cal		98
4) Vinyl Chloride	1.40	62	12529	3.894	ug/l	96
5) Bromomethane	1.64	94	221	2.019	ug/l #	65
6) Chloroethane	1.73	64	381	Below Cal	#	61
10) Methyl Iodide	2.52	142	19	4.011	ug/l #	42
12) 1,1-Dichloroethene	2.38	96	606	0.254	ug/l #	73
13) Acrolein	2.29	56	188	0.537	ug/l #	80
16) Acetone	2.44	43	2135	1.229	ug/l	99
17) Carbon Disulfide	2.57	76	437	Below Cal	#	73
21) trans-1,2-Dichloroethene	3.17	96	523	0.202	ug/l #	75
27) cis-1,2-Dichloroethene	4.60	96	80133	26.957	ug/l	89
28) Bromochloromethane	5.02	49	20	Below Cal	#	22
31) Cyclohexane	5.67	56	4637	0.890	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16991	4.511	ug/l #	50
38) Carbon Tetrachloride	5.66	117	20287	6.508	ug/l #	16
44) Trichloroethene	7.22	130	22881	8.756	ug/l	93
49) 1,4-Dioxane	7.96	88	19	0.255	ug/l #	51
60) Dibromochloromethane	9.34	129	41693	16.664	ug/l #	11
64) Tetrachloroethene	9.34	164	43615	19.708	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	73749	21.343	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	73749	58.833	ug/l #	9

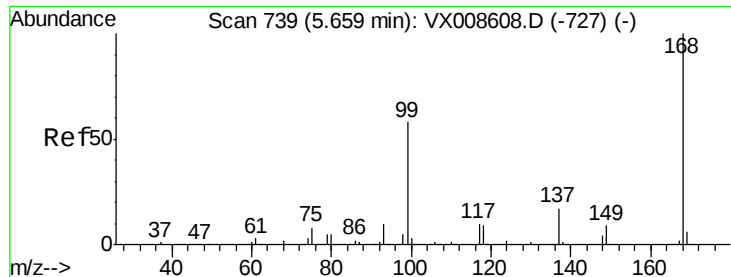
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

MSVOA_X

ClientSampleId :

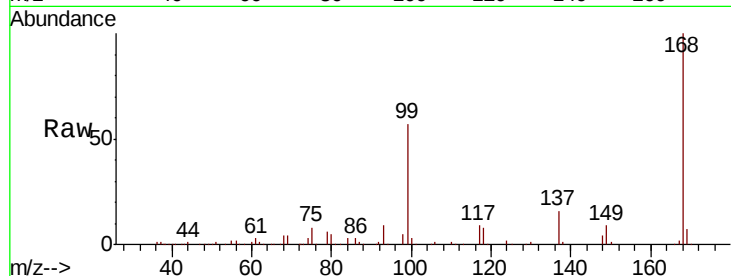
ST008RW256-190404

Tot Ion:168 Resp: 206757

Ion Ratio Lower Upper

168 100

99 57.5 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

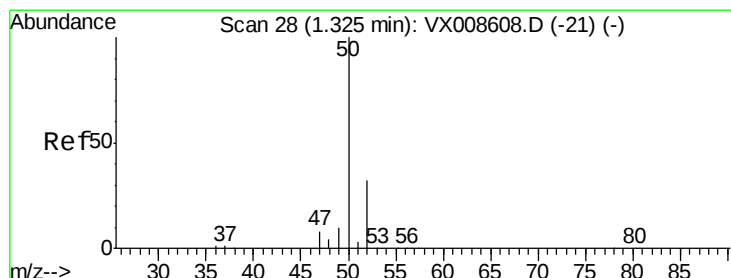
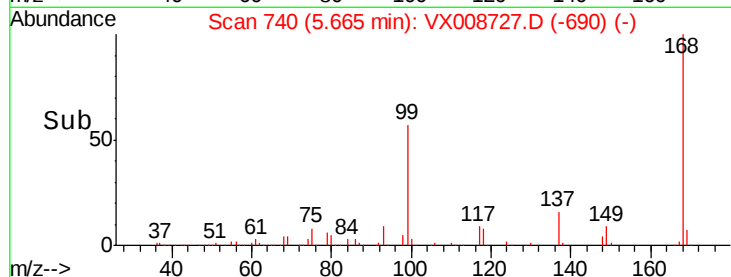
40000

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: VX008727.D

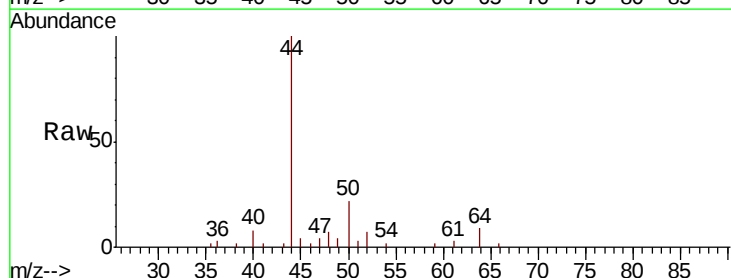
Acq: 06 Apr 2019 17:48

Tgt Ion: 50 Resp: 788

Ion Ratio Lower Upper

50 100

52 31.0 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

600

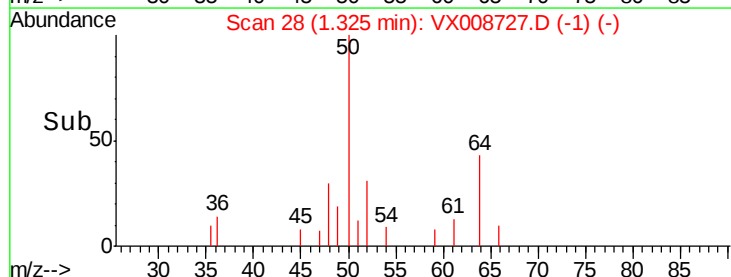
400

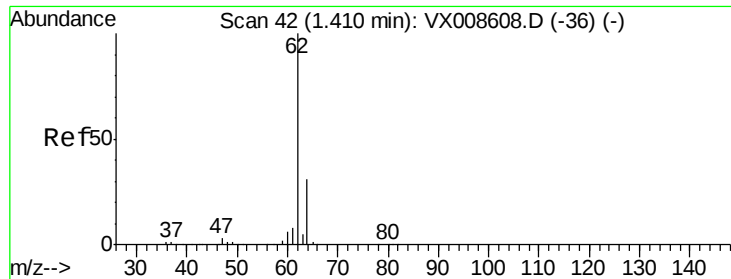
200

0

Time-->

1.30 1.35





#4

Vinyl Chloride

Concen: 3.894 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

MSVOA_X

ClientSampleId :

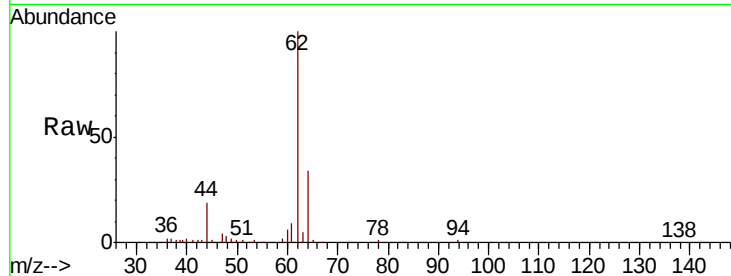
ST008RW256-190404

Tot Ion: 62 Resp: 12529

Ion Ratio Lower Upper

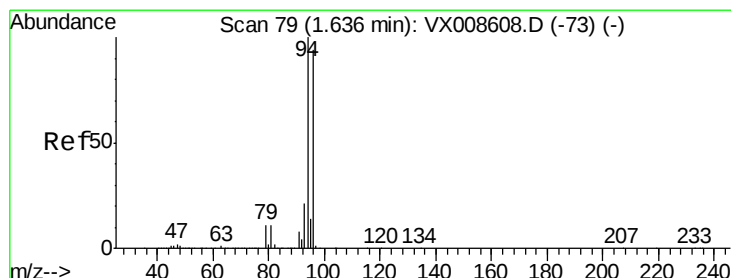
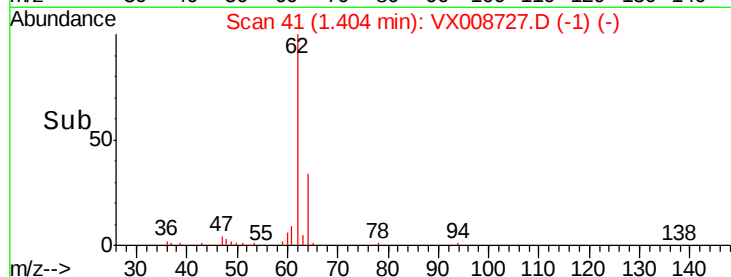
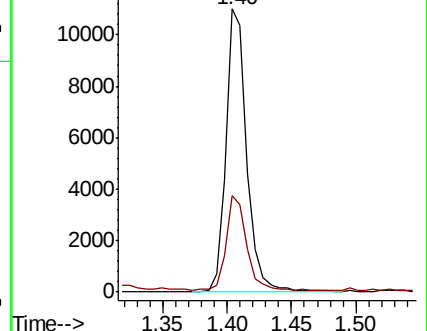
62 100

64 33.3 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: 2.019 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008727.D

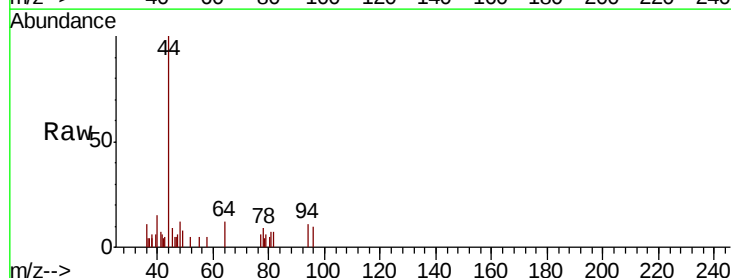
Acq: 06 Apr 2019 17:48

Tgt Ion: 94 Resp: 221

Ion Ratio Lower Upper

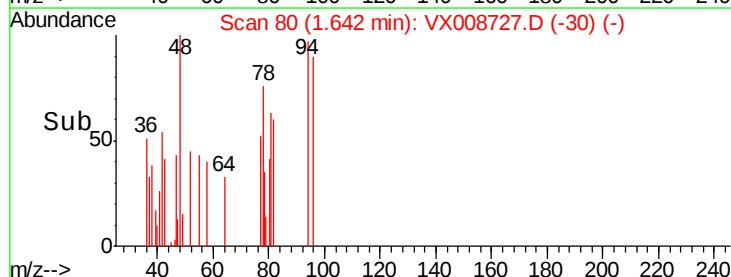
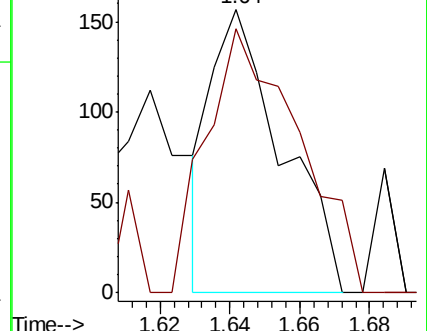
94 100

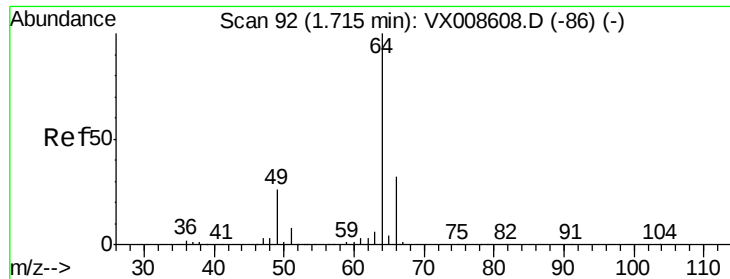
96 60.5 75.2 112.8#



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: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

MSVOA_X

ClientSampleId :

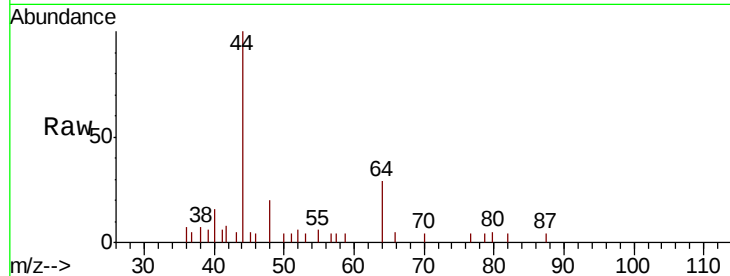
ST008RW256-190404

Tot Ion: 64 Resp: 381

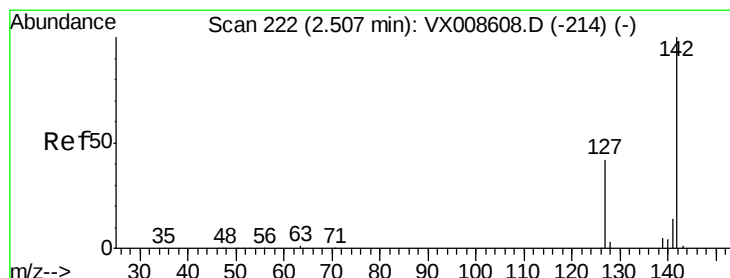
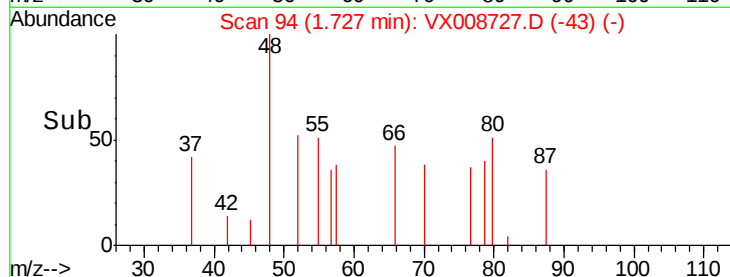
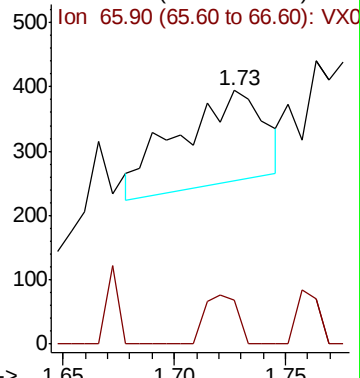
Ion Ratio Lower Upper

64 100

66 53.1 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX008608.D (-86) (-)



#10

Methyl Iodide

Concen: 4.011 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

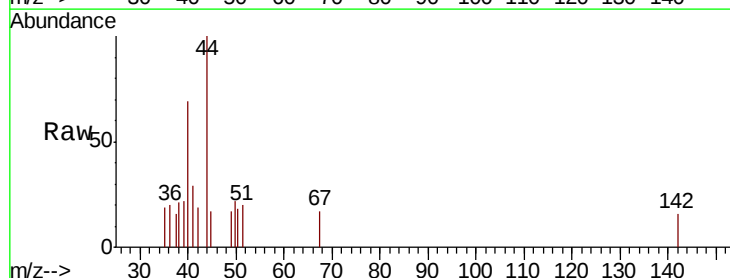
Tgt Ion: 142 Resp: 19

Ion Ratio Lower Upper

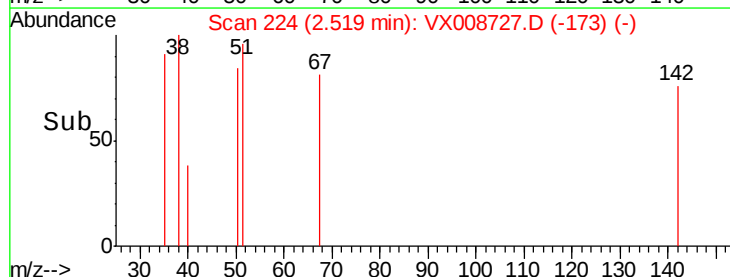
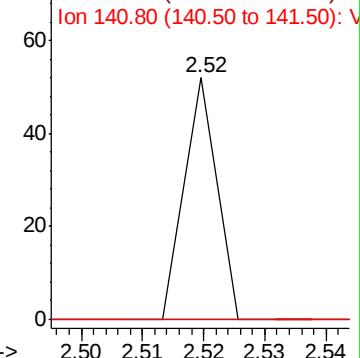
142 100

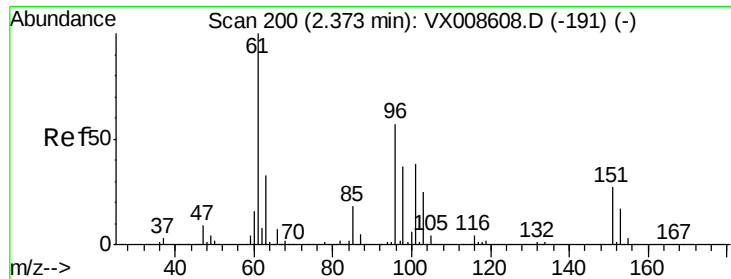
127 0.0 33.0 49.6#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): VX008608.D (-214) (-)





#12

1,1-Dichloroethene

Concen: 0.254 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

MSVOA_X

ClientSampleId :

ST008RW256-190404

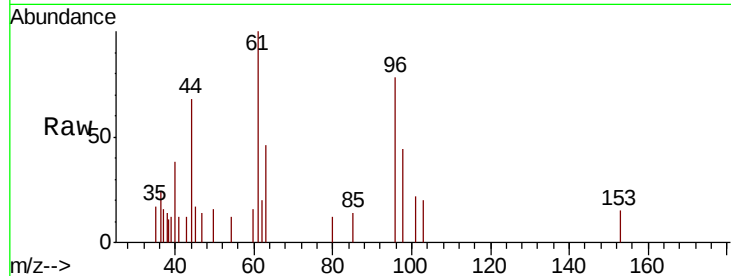
Tot Ion: 96 Resp: 606

Ion Ratio Lower Upper

96 100

61 128.8 140.9 211.3#

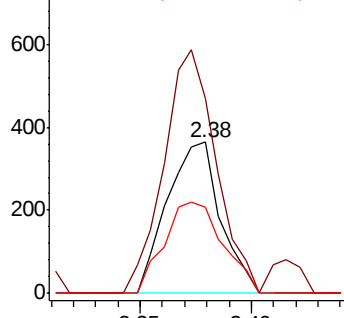
98 57.1 52.1 78.1



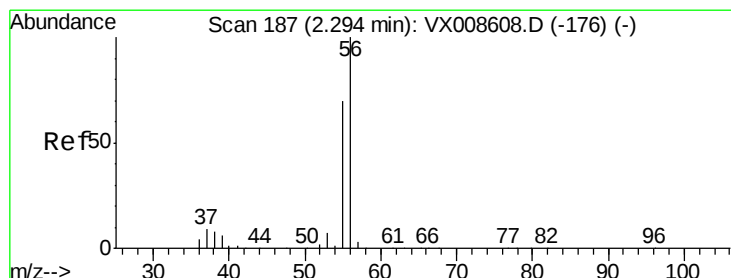
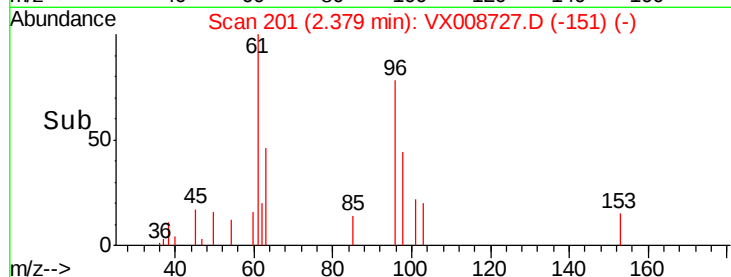
Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



Time-->



#13

Acrolein

Concen: 0.537 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX008727.D

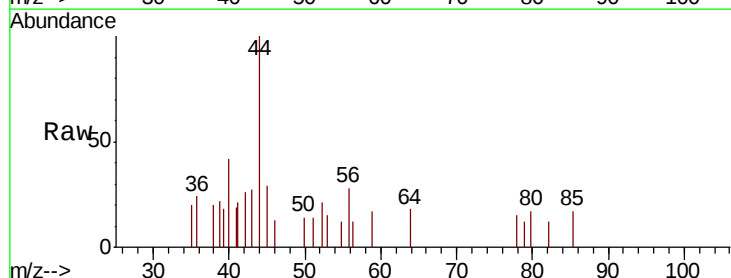
Acq: 06 Apr 2019 17:48

Tgt Ion: 56 Resp: 188

Ion Ratio Lower Upper

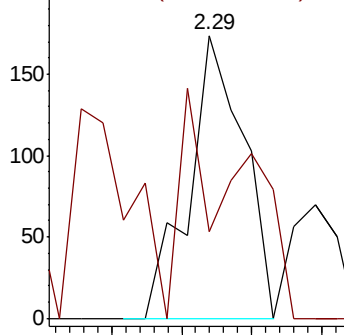
56 100

55 89.4 58.0 87.0#

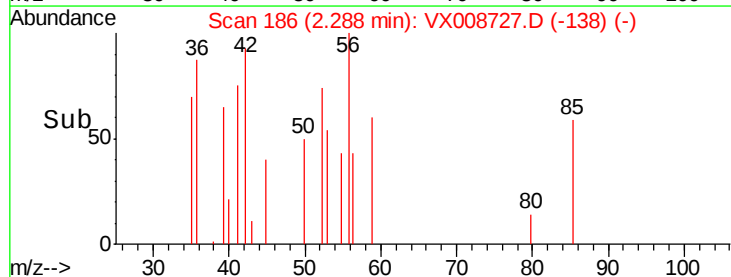


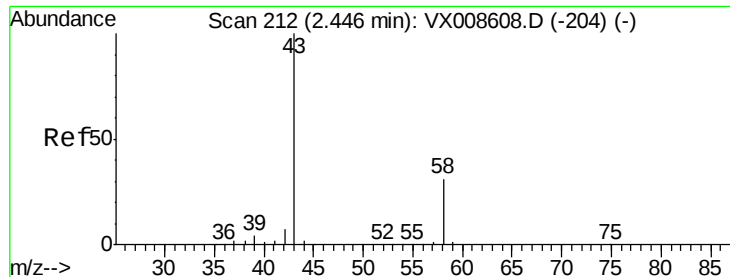
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->





#16

Acetone

Concen: 1.229 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

MSVOA_X

ClientSampleId :

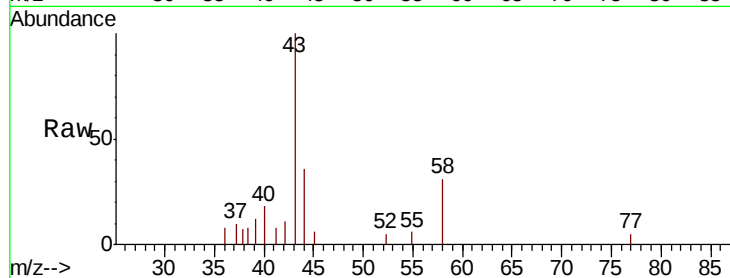
ST008RW256-190404

Tot Ion: 43 Resp: 2135

Ion Ratio Lower Upper

43 100

58 31.4 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

1200

1000

800

600

400

200

0

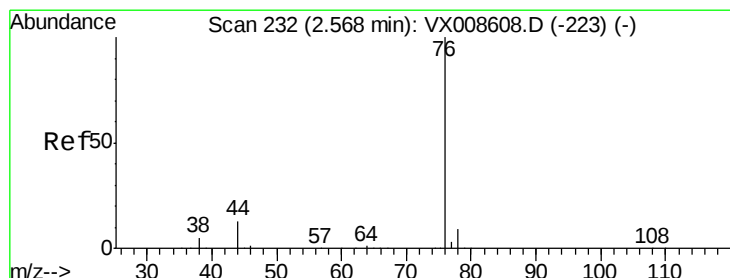
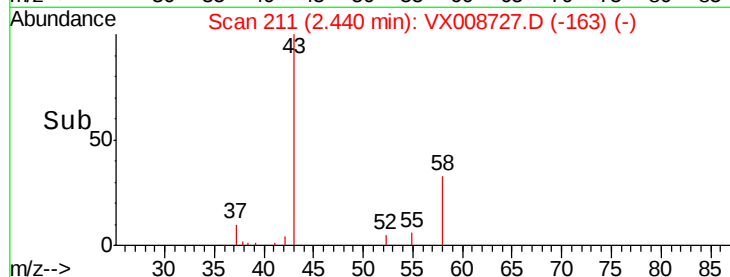
2.40

2.45

2.50

2.55

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008727.D

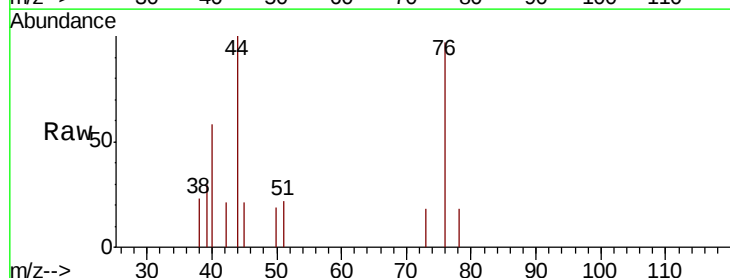
Acq: 06 Apr 2019 17:48

Tgt Ion: 76 Resp: 437

Ion Ratio Lower Upper

76 100

78 18.5 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

300

200

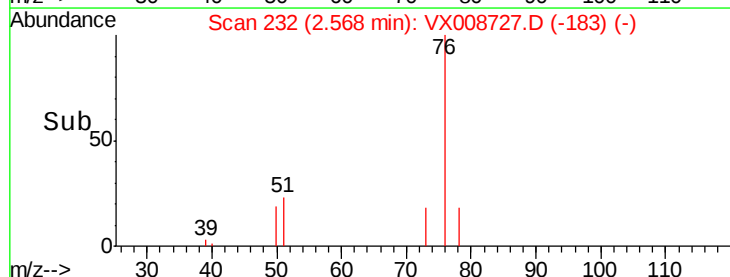
100

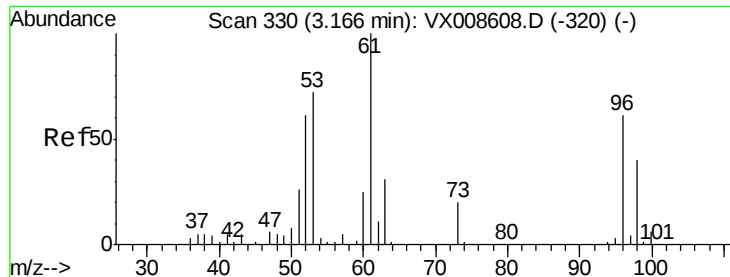
0

2.55

2.60

Time-->





#21

trans-1,2-Dichloroethene

Concen: 0.202 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

MSVOA_X

ClientSampleId :

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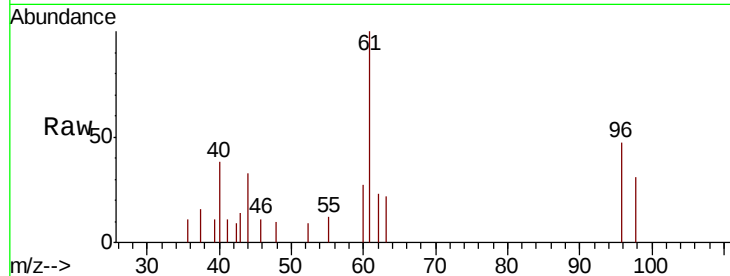
Tot Ion: 96 Resp: 523

Ion Ratio Lower Upper

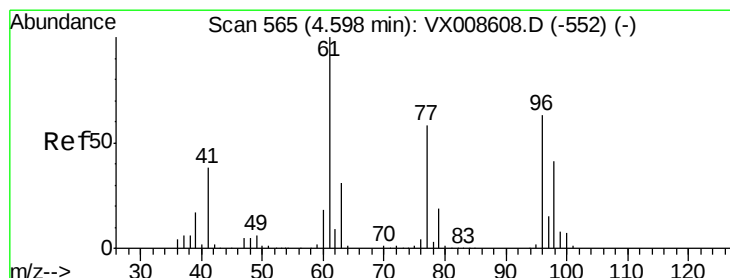
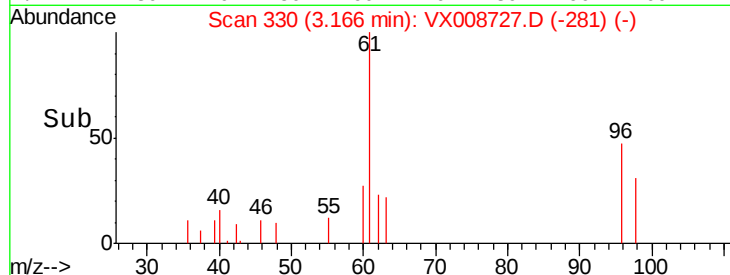
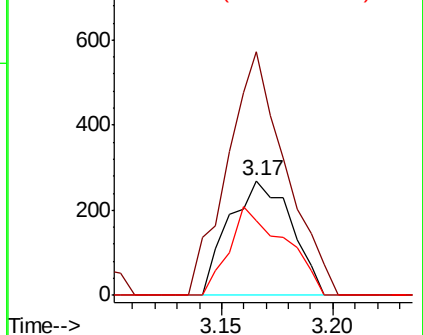
96 100

61 211.9 132.1 198.1#

98 64.8 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: 26.957 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

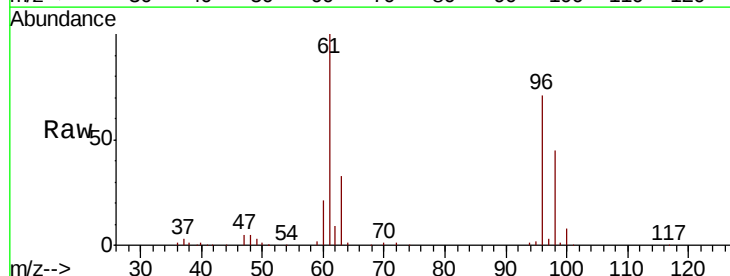
Tgt Ion: 96 Resp: 80133

Ion Ratio Lower Upper

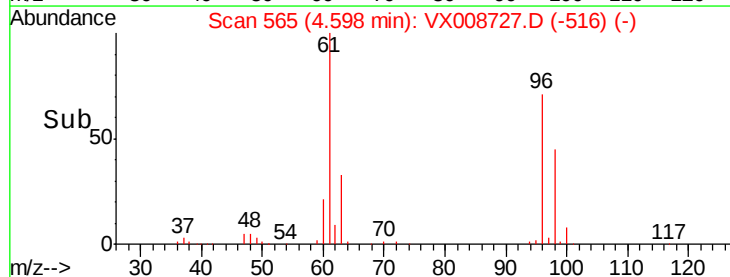
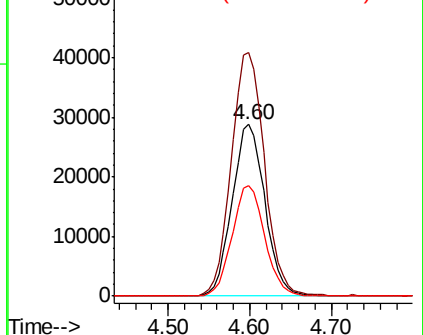
96 100

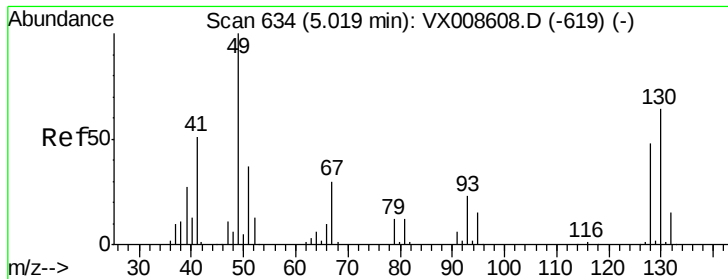
61 143.6 0.0 327.6

98 63.9 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: 5.02 min Scan# 634

Delta R.T. 0.00 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

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ClientSampleId :

ST008RW256-190404

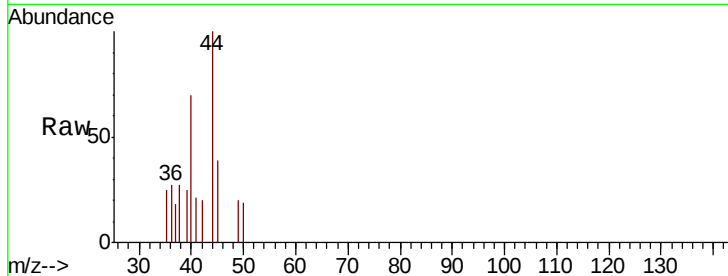
Tot Ion: 49 Resp: 20

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

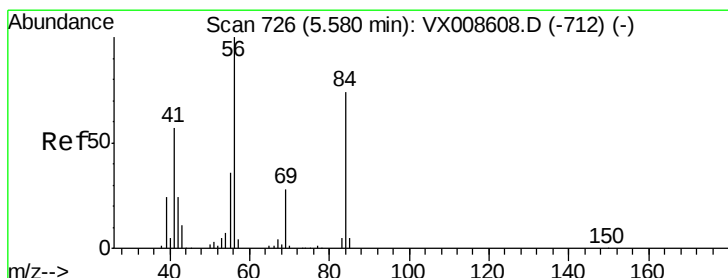
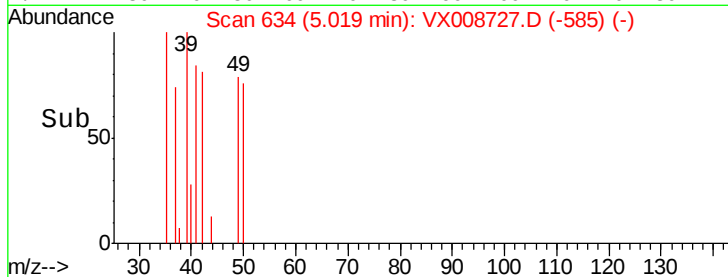
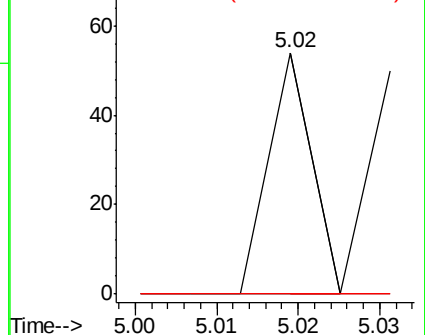
130 0.0 49.3 73.9#



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



#31

Cyclohexane

Concen: 0.890 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

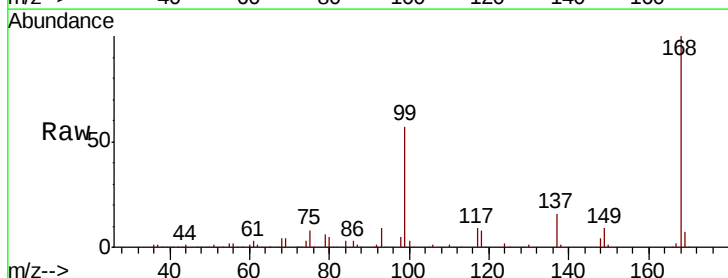
Tgt Ion: 56 Resp: 4637

Ion Ratio Lower Upper

56 100

69 171.5 22.6 33.8#

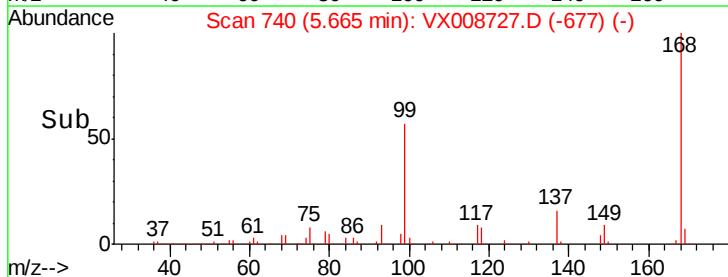
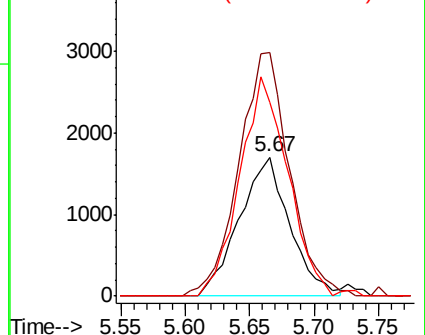
84 139.6 59.3 88.9#

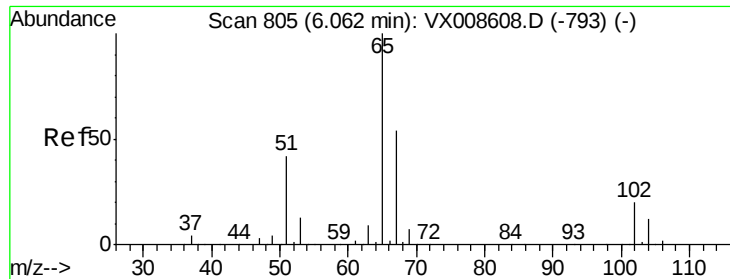


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.183 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

MSVOA_X

ClientSampleId :

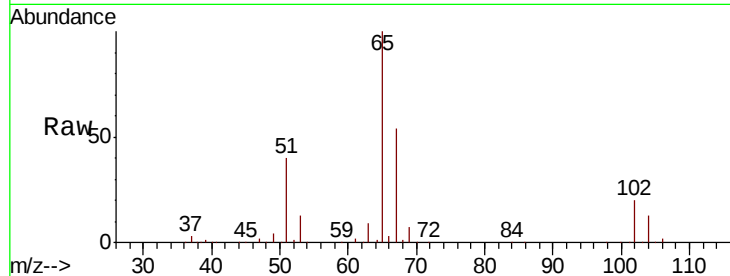
ST008RW256-190404

Tot Ion: 65 Resp: 142288

Ion Ratio Lower Upper

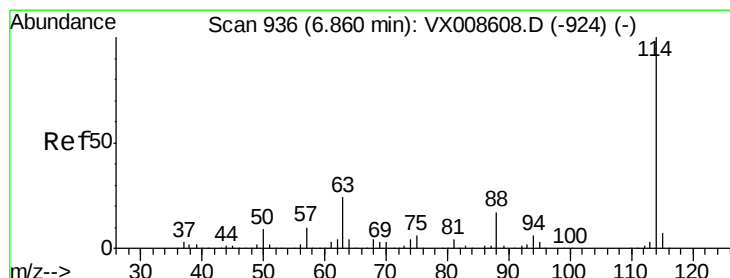
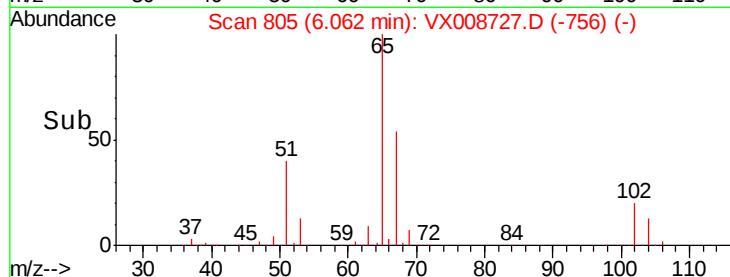
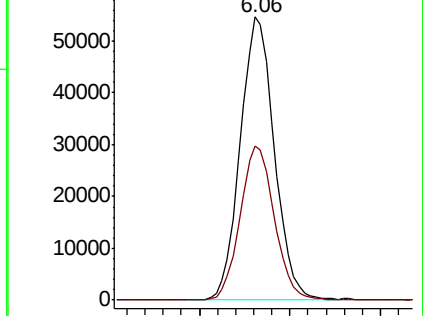
65 100

67 54.7 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: VX008727.D

Acq: 06 Apr 2019 17:48

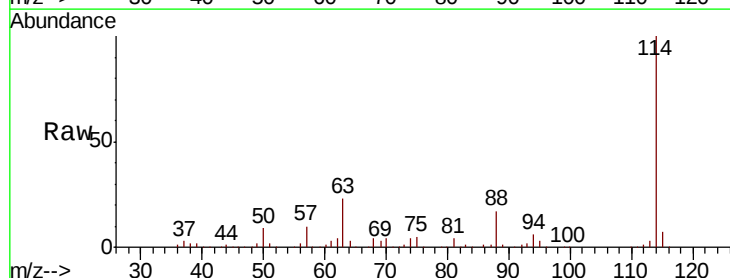
Tgt Ion: 114 Resp: 344540

Ion Ratio Lower Upper

114 100

63 23.5 0.0 47.2

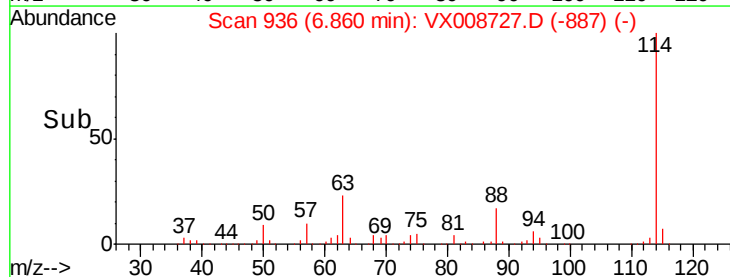
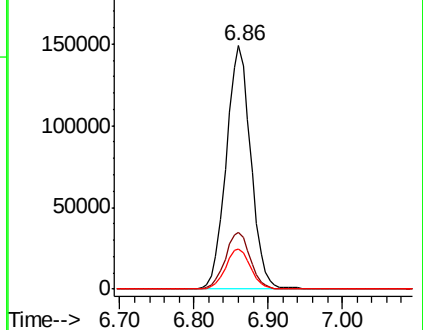
88 16.5 0.0 34.0

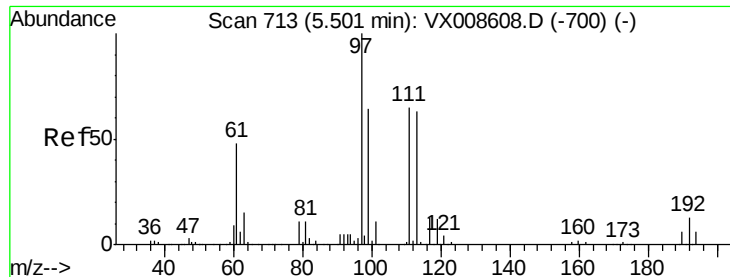


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

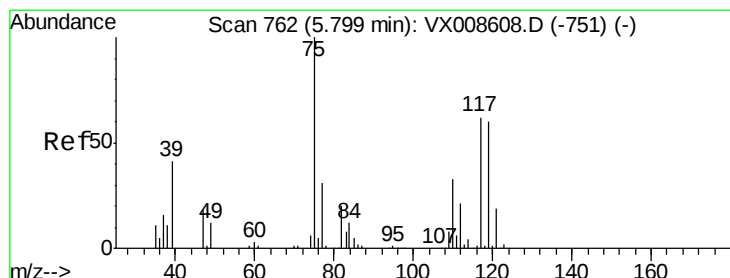
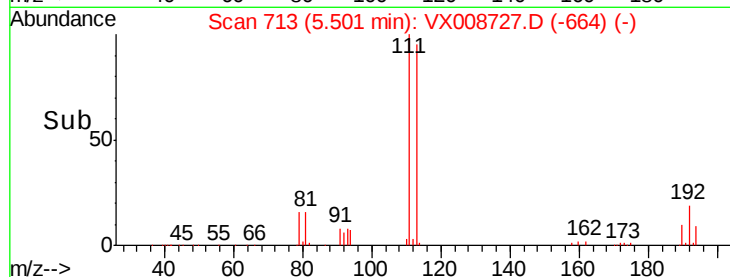
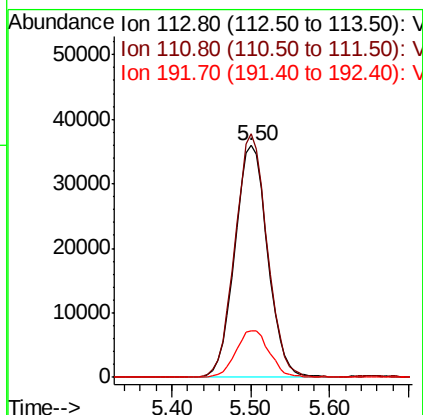
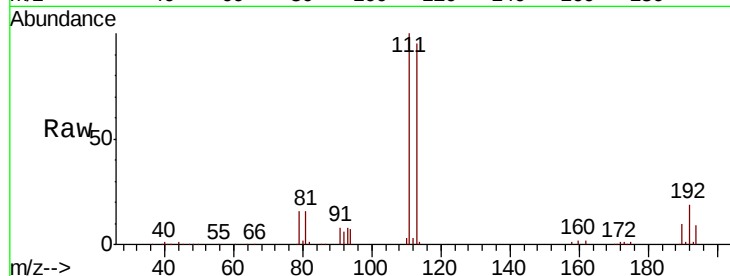




#35
 Dibromofluoromethane
 Concen: 47.274 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008727.D
 Acq: 06 Apr 2019 17:48

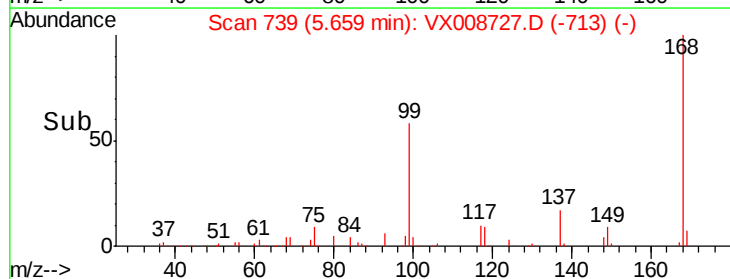
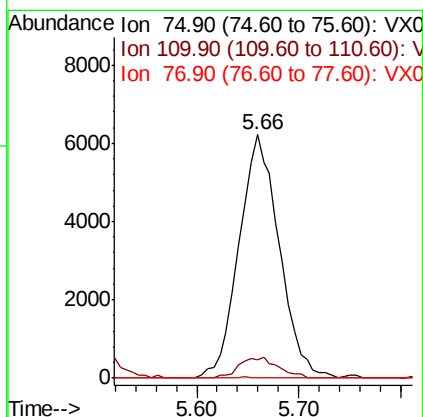
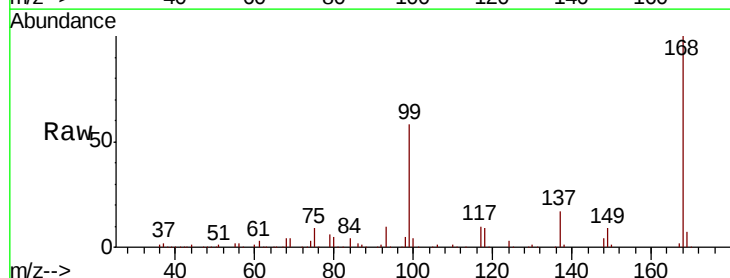
Instrument :
 MSVOA_X
 ClientSampleId :
 ST008RW256-190404

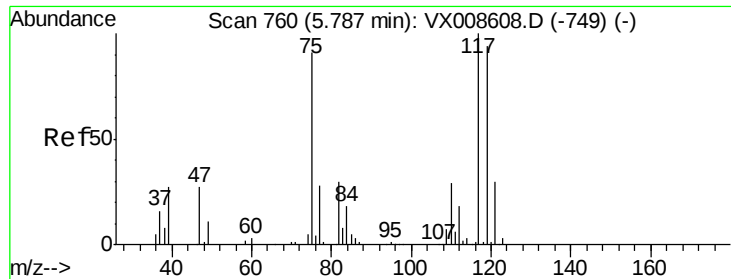
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.4	125.2
192	20.6	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 4.511 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008727.D
 Acq: 06 Apr 2019 17:48

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.4	49.2#
77	0.1	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 6.508 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

MSVOA_X

ClientSampleId :

ST008RW256-190404

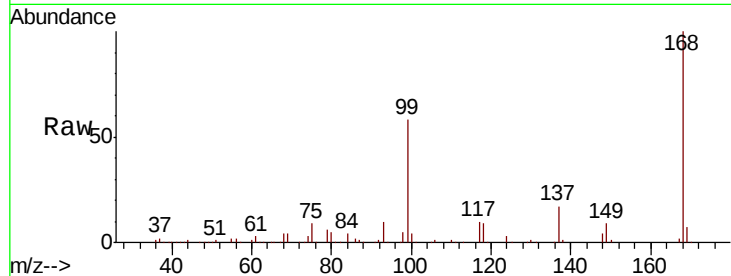
Tot Ion:117 Resp: 20287

Ion Ratio Lower Upper

117 100

119 4.5 75.0 112.6#

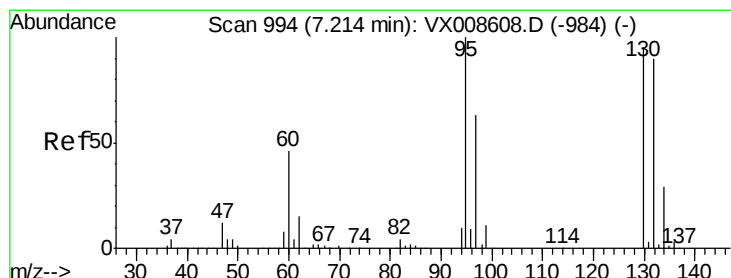
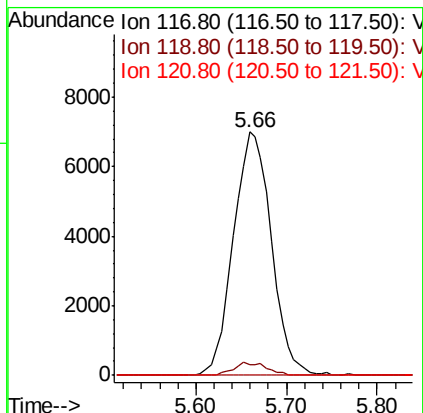
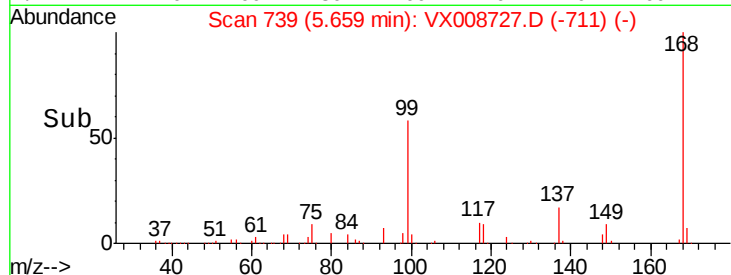
121 0.0 24.3 36.5#



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



#44

Trichloroethene

Concen: 8.756 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX008727.D

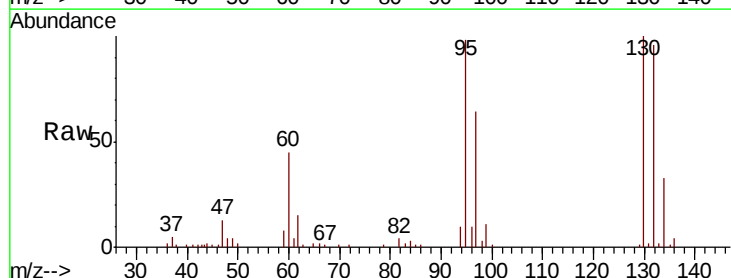
Acq: 06 Apr 2019 17:48

Tgt Ion:130 Resp: 22881

Ion Ratio Lower Upper

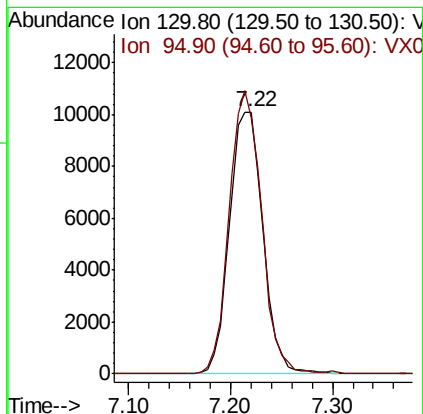
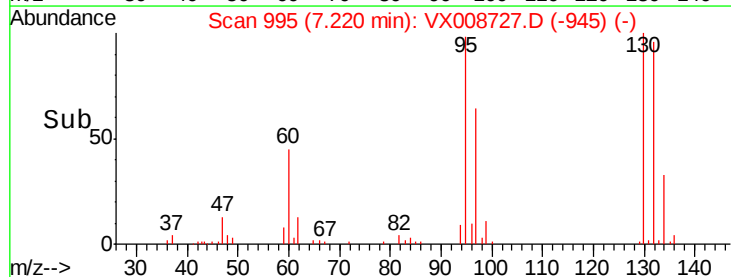
130 100

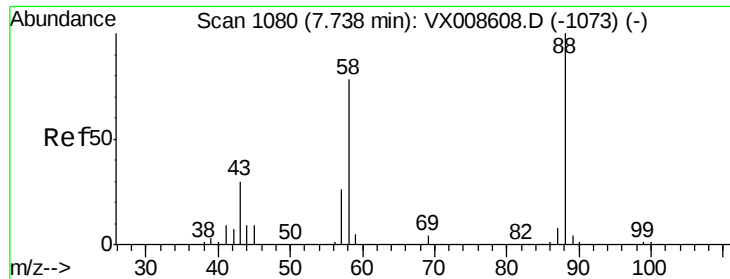
95 97.9 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.255 ug/l

RT: 7.96 min Scan# 1116

Delta R.T. 0.22 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

MSVOA_X

ClientSampleId :

ST008RW256-190404

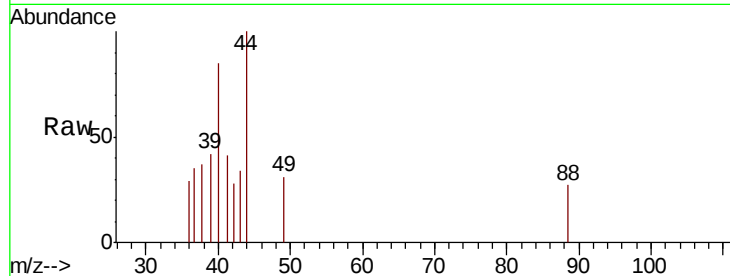
Tot Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 28.6 43.0#

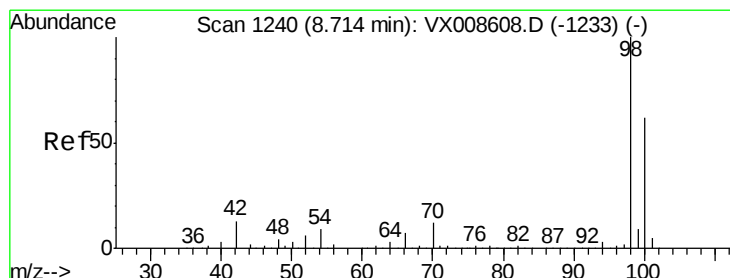
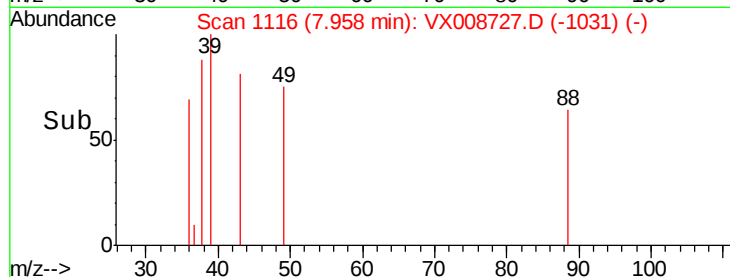
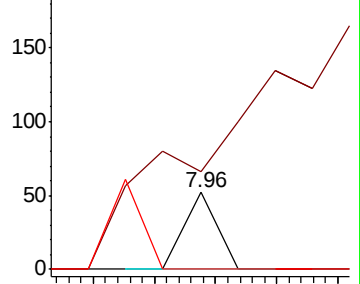
58 115.8 62.2 93.2#



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: 49.387 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008727.D

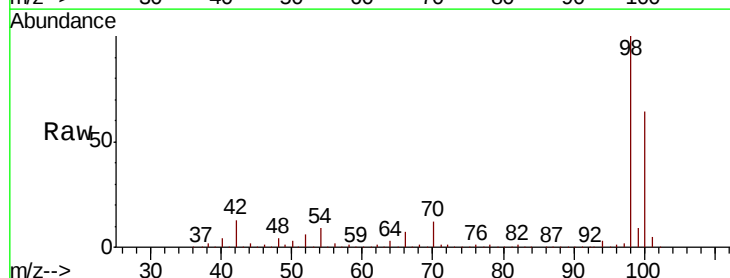
Acq: 06 Apr 2019 17:48

Tgt Ion: 98 Resp: 433179

Ion Ratio Lower Upper

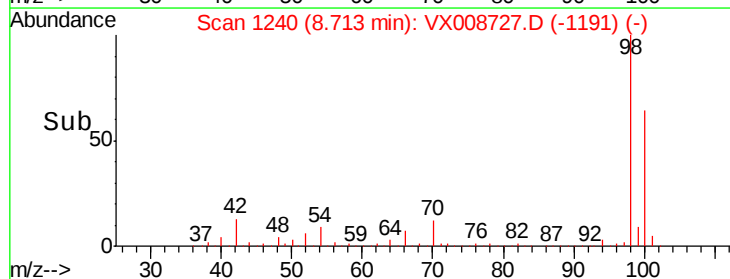
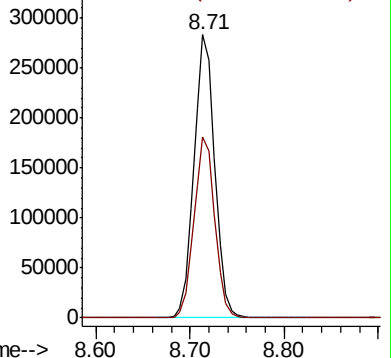
98 100

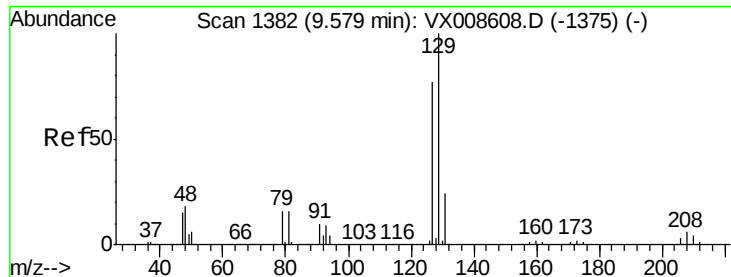
100 64.1 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

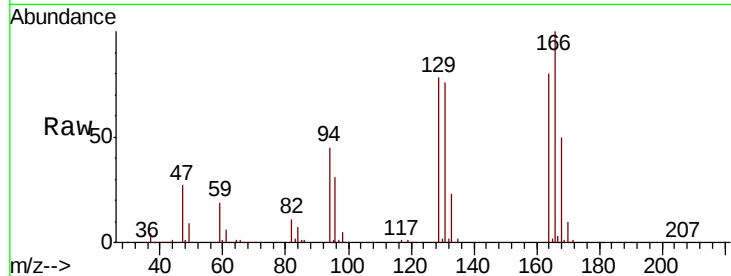




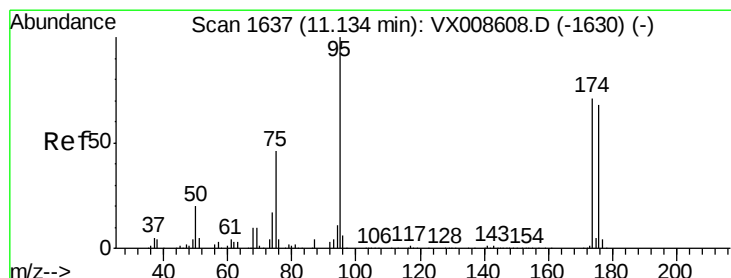
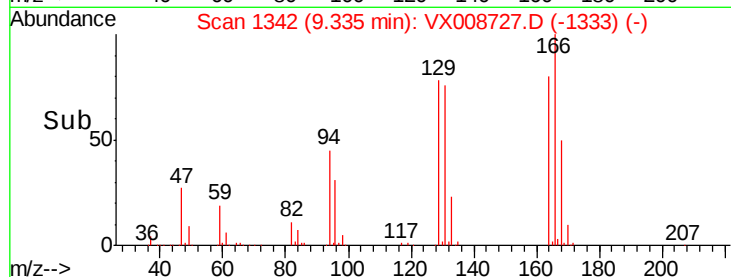
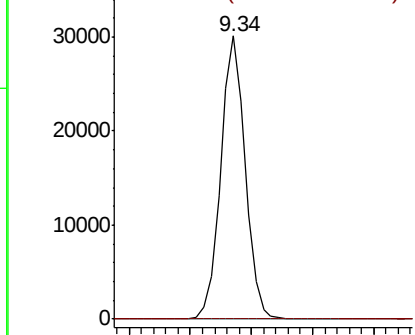
#60
 Dibromochloromethane
 Concen: 16.664 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX008727.D
 Acq: 06 Apr 2019 17:48

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008RW256-190404

Tot Ion:129 Resp: 41693
 Ion Ratio Lower Upper
 129 100
 127 0.1 38.5 115.3#

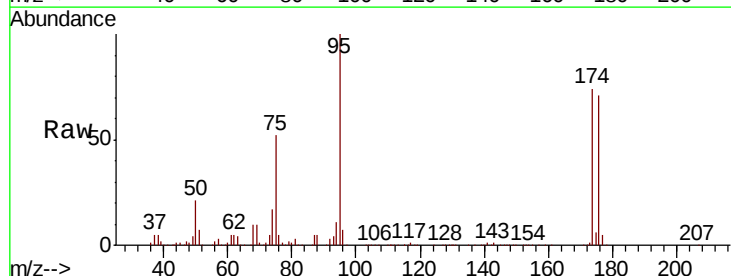


Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V

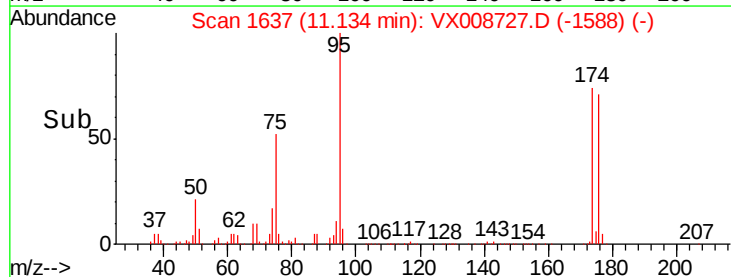
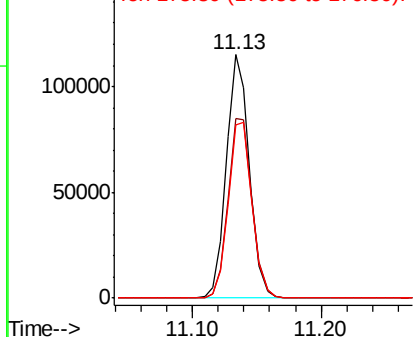


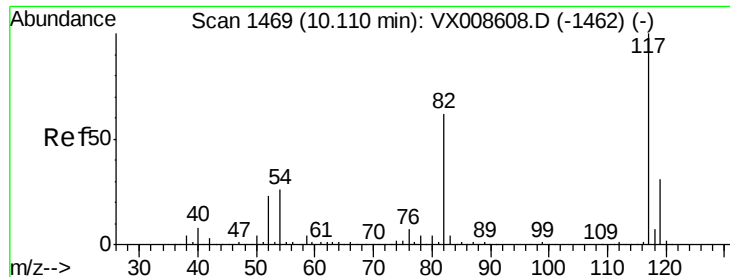
#62
 4-Bromofluorobenzene
 Concen: 46.368 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.00 min
 Lab File: VX008727.D
 Acq: 06 Apr 2019 17:48

Tgt Ion: 95 Resp: 144222
 Ion Ratio Lower Upper
 95 100
 174 77.3 0.0 151.8
 176 74.9 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

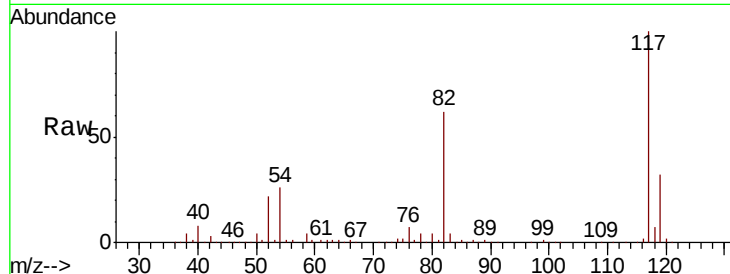




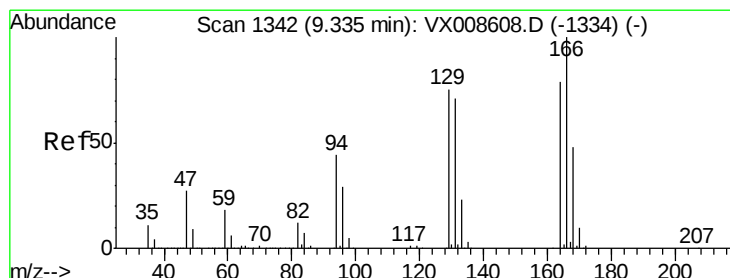
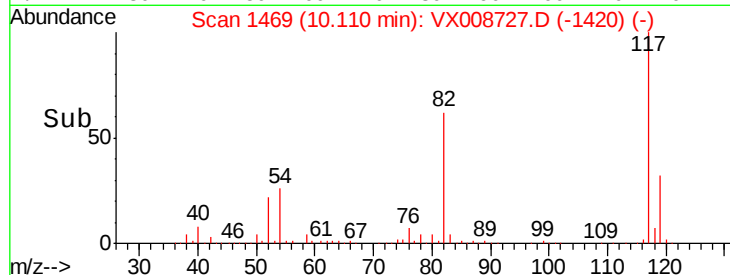
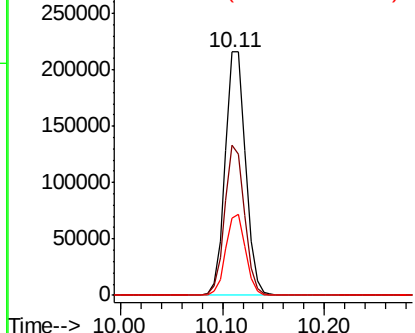
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008727.D
Acq: 06 Apr 2019 17:48

Instrument :
MSVOA_X
ClientSampleId :
ST008RW256-190404

Tot Ion:117 Resp: 298700
Ion Ratio Lower Upper
117 100
82 61.6 49.6 74.4
119 31.5 25.0 37.4



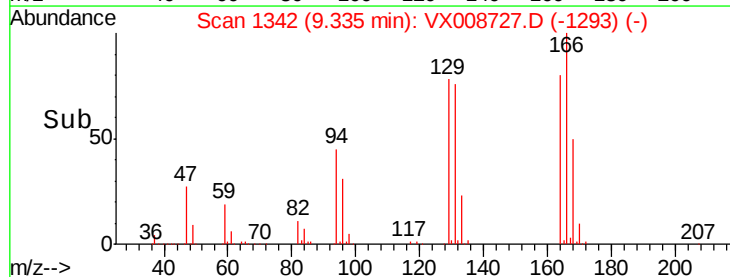
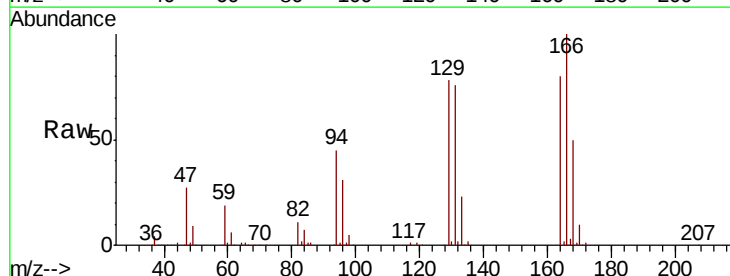
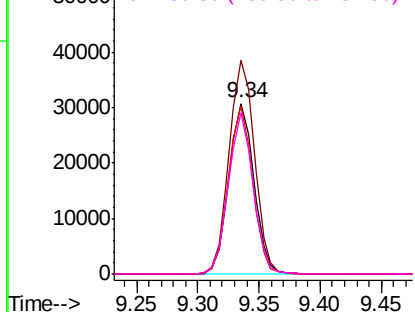
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

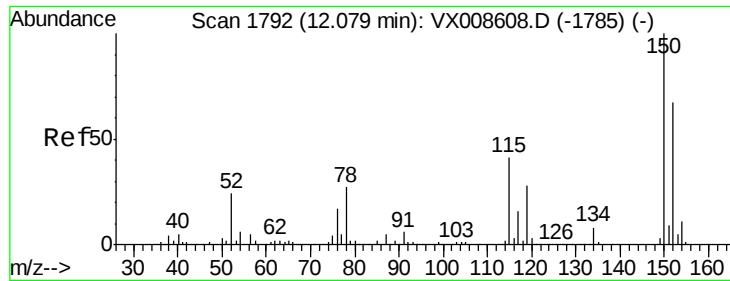


#64
Tetrachloroethene
Concen: 19.708 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008727.D
Acq: 06 Apr 2019 17:48

Tgt Ion:164 Resp: 43615
Ion Ratio Lower Upper
164 100
166 125.0 101.0 151.6
129 97.8 75.8 113.8
131 94.7 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: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

MSVOA_X

ClientSampleId :

ST008RW256-190404

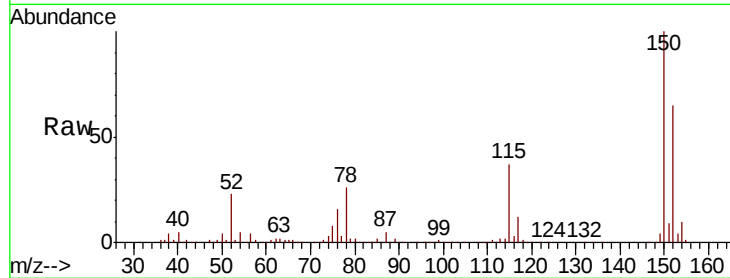
Tot Ion:152 Resp: 125785

Ion Ratio Lower Upper

152 100

115 60.4 43.5 130.5

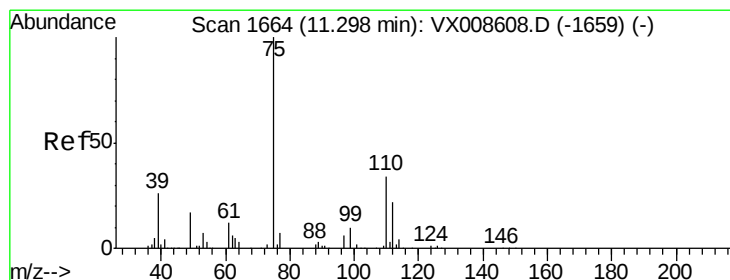
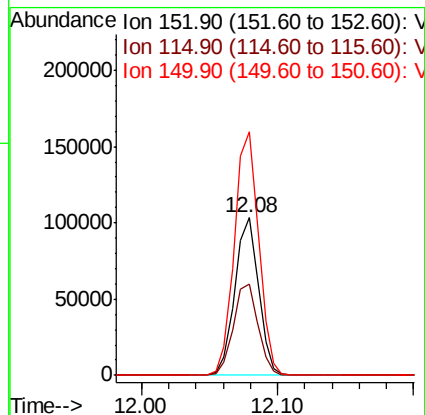
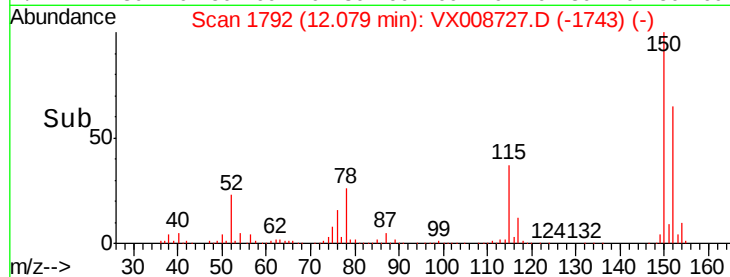
150 158.3 0.0 348.8



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: 21.343 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008727.D

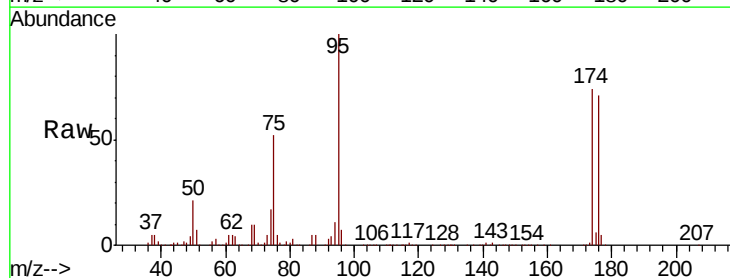
Acq: 06 Apr 2019 17:48

Tgt Ion: 75 Resp: 73749

Ion Ratio Lower Upper

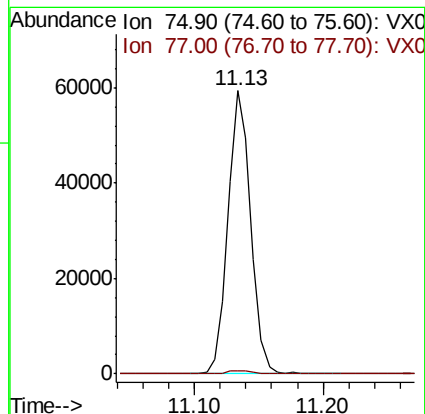
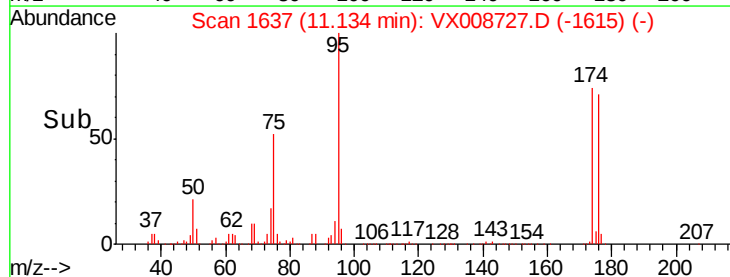
75 100

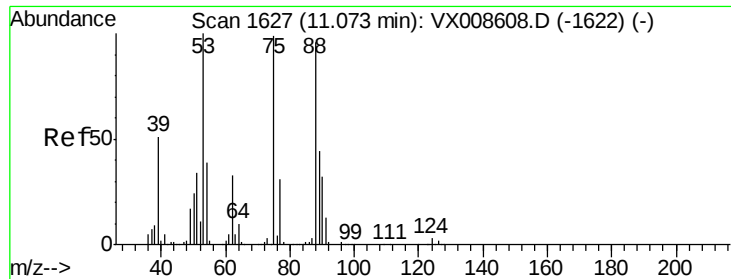
77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 58.833 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008727.D

Acq: 06 Apr 2019 17:48

Instrument :

MSVOA_X

ClientSampleId :

ST008RW256-190404

Tot Ion: 75 Resp: 73749

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#

