

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092718\
 Data File : VX004766.D
 Acq On : 27 Sep 2018 11:43
 Operator : JC/MD
 Sample : J5048-19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-2-SEP18

Quant Time: Sep 28 05:47:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	278556	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	443408	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	421154	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	234483	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	197603	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
35) Dibromofluoromethane	5.50	113	169426	45.08	ug/l	0.00
Spiked Amount			Recovery	=	90.16%	
50) Toluene-d8	8.71	98	633269	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	11.14	95	229186	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	

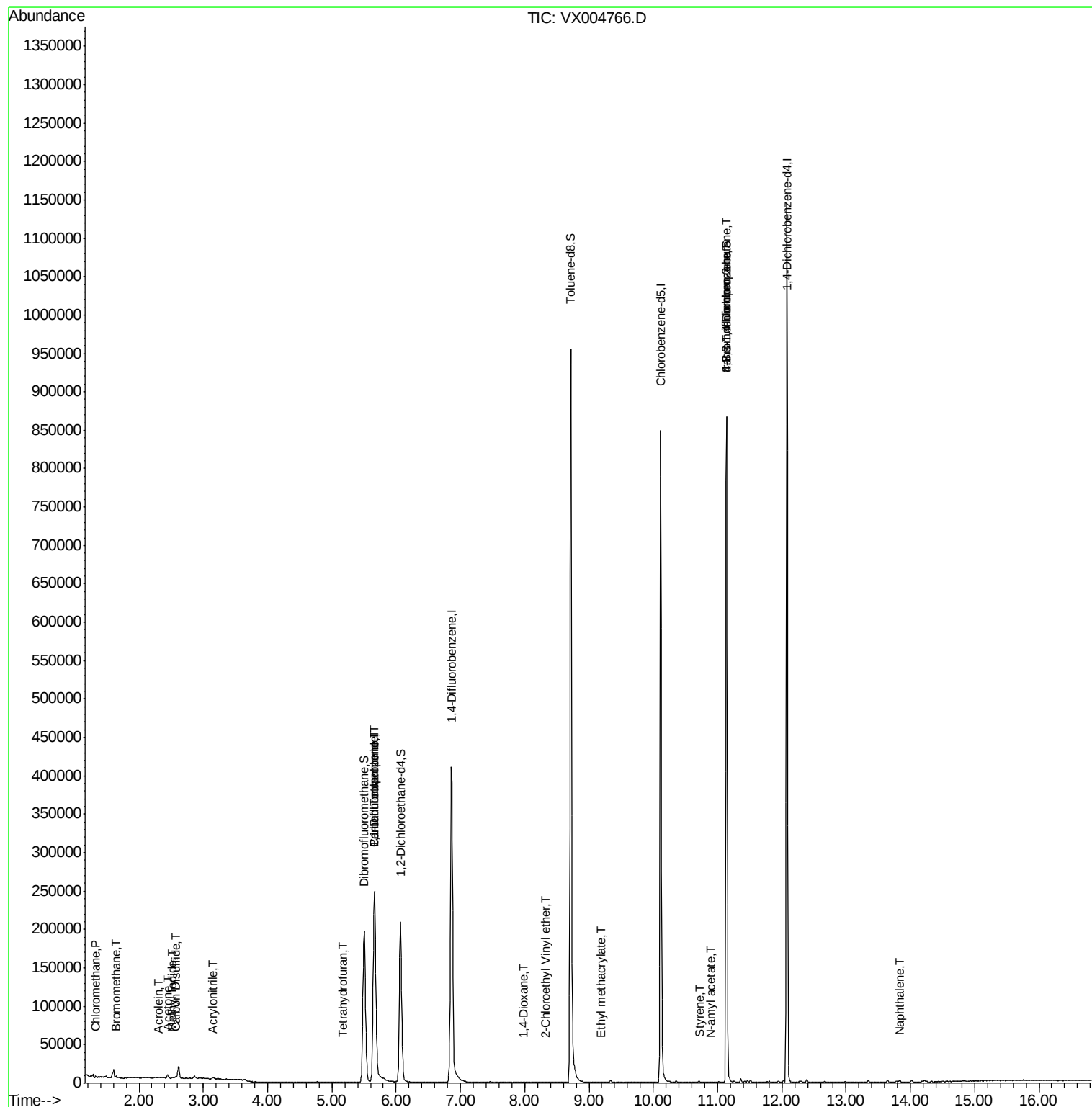
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1056	0.229	ug/l	91
5) Bromomethane	1.64	94	826	0.322	ug/l	85
6) Chloroethane	1.71	64	90	Below Cal	#	44
10) Methyl Iodide	2.51	142	952	0.233	ug/l #	69
13) Acrolein	2.30	56	266	0.336	ug/l #	16
15) Acrylonitrile	3.15	53	1052	0.430	ug/l #	87
16) Acetone	2.44	43	5365	2.309	ug/l	93
17) Carbon Disulfide	2.57	76	2687	0.296	ug/l #	94
20) Methylene Chloride	2.86	84	1608	Below Cal	#	90
29) Tetrahydrofuran	5.17	42	953	0.448	ug/l #	59
36) 1,1-Dichloropropene	5.66	75	18456	3.600	ug/l #	50
38) Carbon Tetrachloride	5.66	117	23682	4.394	ug/l #	15
49) 1,4-Dioxane	7.99	88	41	0.370	ug/l #	1
56) Ethyl methacrylate	9.19	69	32	2.867	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.32	63	127	14.278	ug/l #	45
70) Styrene	10.71	104	395	2.173	ug/l #	90
74) N-amyl acetate	10.89	43	227	1.775	ug/l #	51
76) 1,2,3-Trichloropropane	11.14	75	111442	21.204	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	575	Below Cal		92
81) trans-1,4-Dichloro-2-buten	11.14	75	111442	57.521	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	754	Below Cal		95
95) Naphthalene	13.83	128	1608	0.801	ug/l #	95

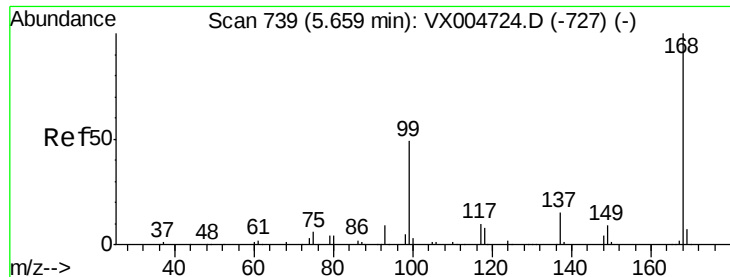
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 26 14:17:02 2018
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: VX004766.D

Acq: 27 Sep 2018 11:43

Instrument :

MSVOA_X

ClientSampleId :

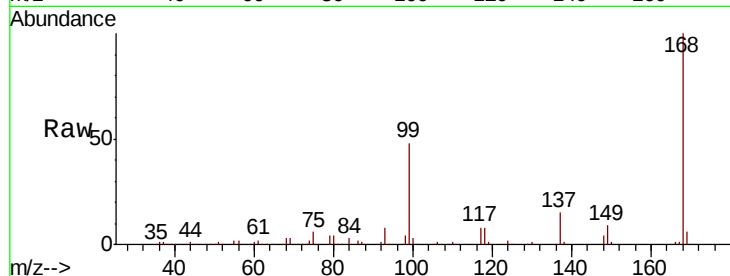
TB-2-SEP18

Tot Ion:168 Resp: 278556

Ion Ratio Lower Upper

168 100

99 47.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

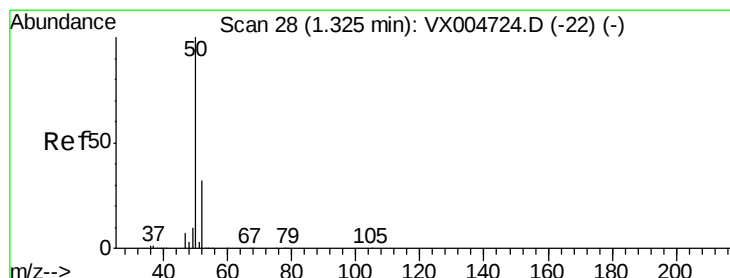
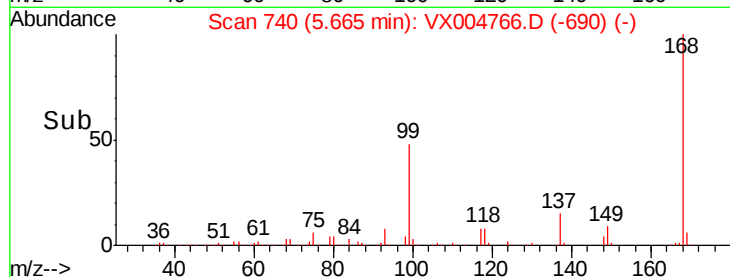
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.229 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004766.D

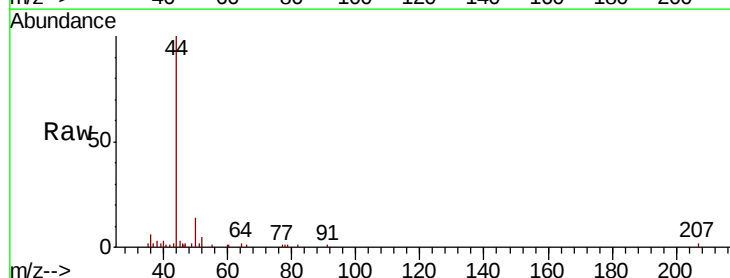
Acq: 27 Sep 2018 11:43

Tgt Ion: 50 Resp: 1056

Ion Ratio Lower Upper

50 100

52 38.0 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

800

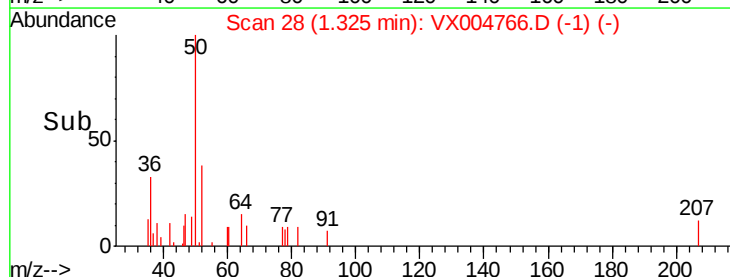
600

400

200

0

Time-->





#5

Bromomethane

Concen: 0.322 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004766.D

Acq: 27 Sep 2018 11:43

Instrument :

MSVOA_X

ClientSampled :

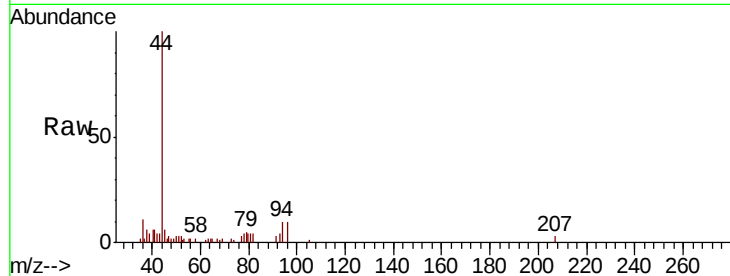
TB-2-SEP18

Tot Ion: 94 Resp: 826

Ion Ratio Lower Upper

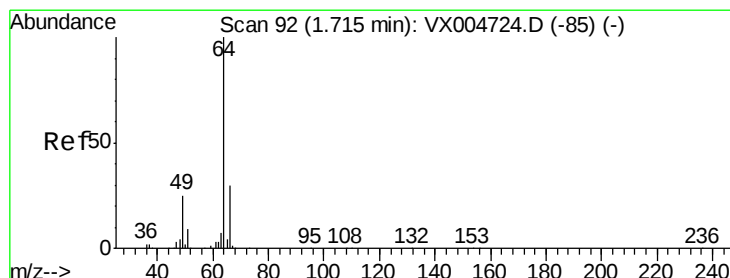
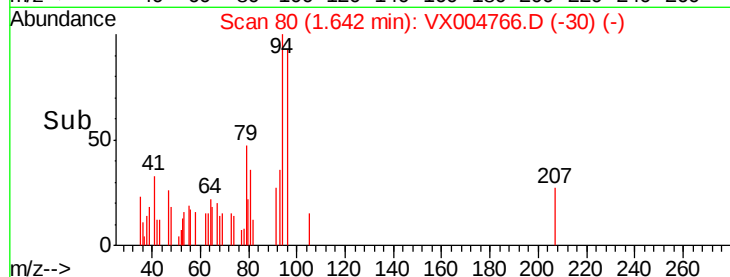
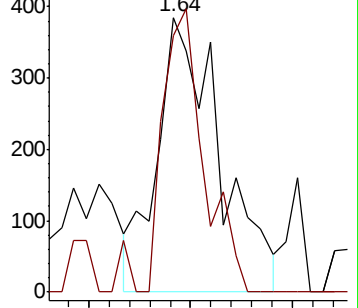
94 100

96 107.8 74.5 111.7



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: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX004766.D

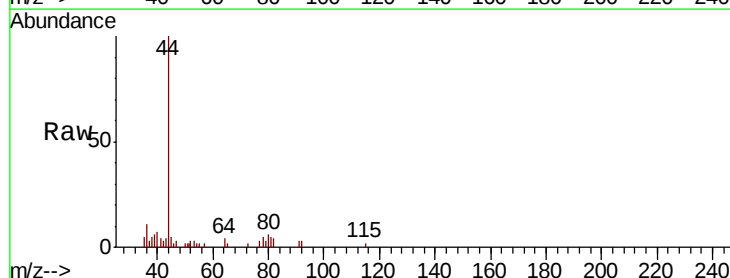
Acq: 27 Sep 2018 11:43

Tgt Ion: 64 Resp: 90

Ion Ratio Lower Upper

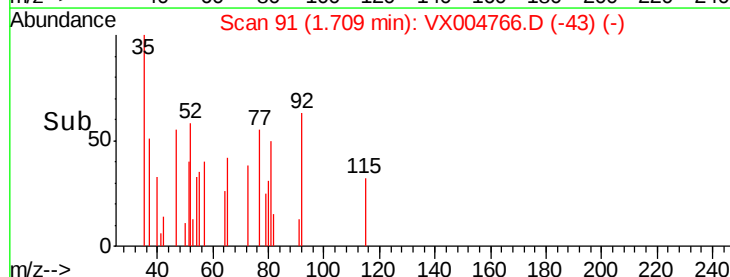
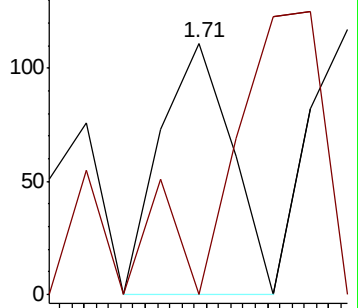
64 100

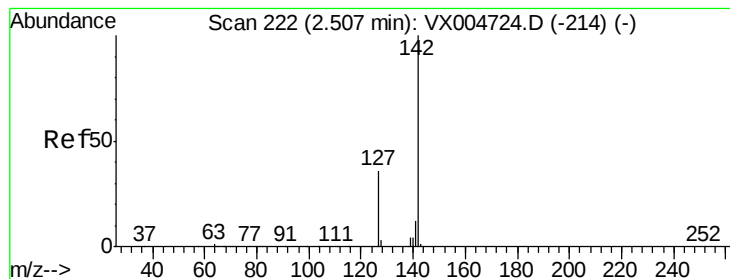
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 0.233 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX004766.D

Acq: 27 Sep 2018 11:43

Instrument :

MSVOA_X

ClientSampleId :

TB-2-SEP18

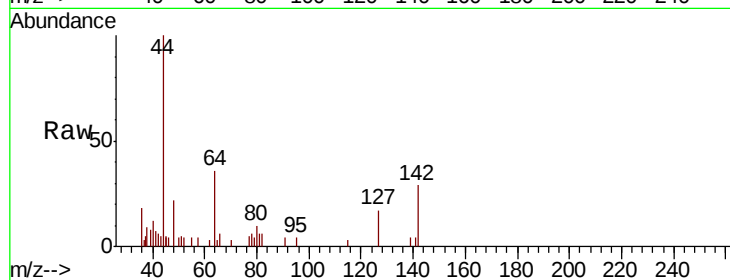
Tot Ion:142 Resp: 952

Ion Ratio Lower Upper

142 100

127 66.5 33.8 50.6#

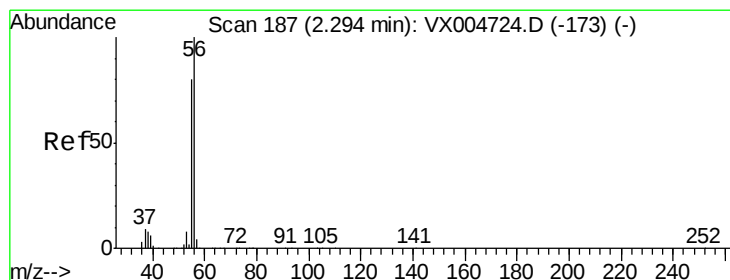
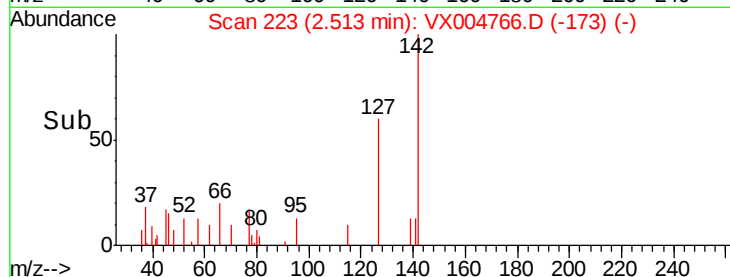
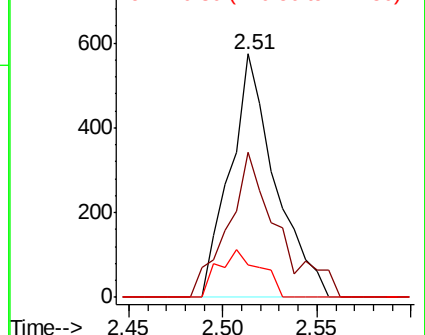
141 18.4 11.4 17.0#



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



#13

Acrolein

Concen: 0.336 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004766.D

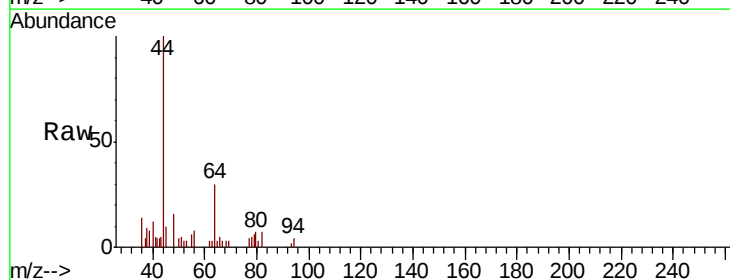
Acq: 27 Sep 2018 11:43

Tgt Ion: 56 Resp: 266

Ion Ratio Lower Upper

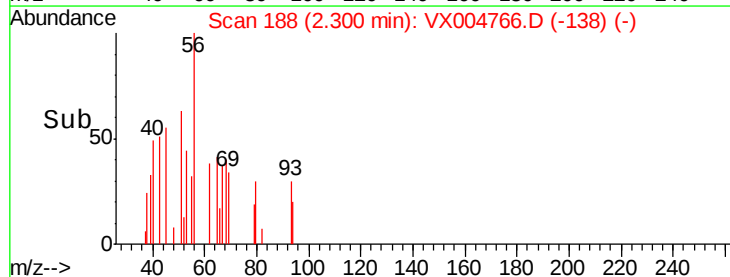
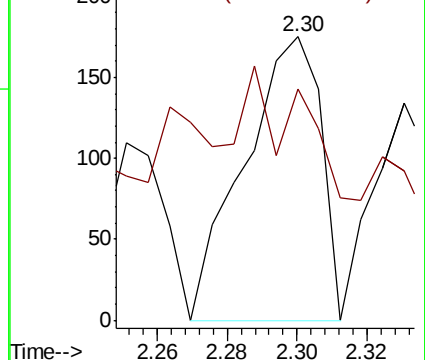
56 100

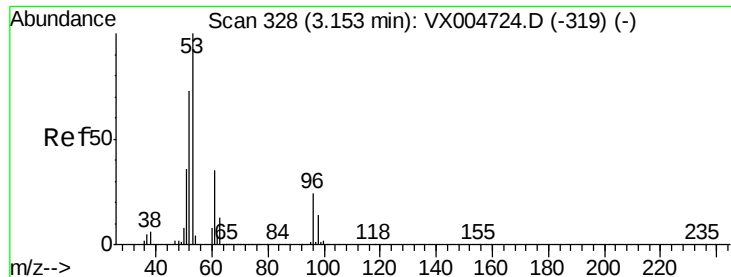
55 0.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.430 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX004766.D

Acq: 27 Sep 2018 11:43

Instrument :

MSVOA_X

ClientSampled :

TB-2-SEP18

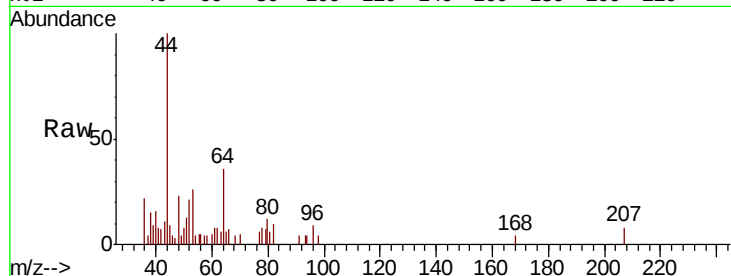
Tot Ion: 53 Resp: 1052

Ion Ratio Lower Upper

53 100

52 72.4 65.2 97.8

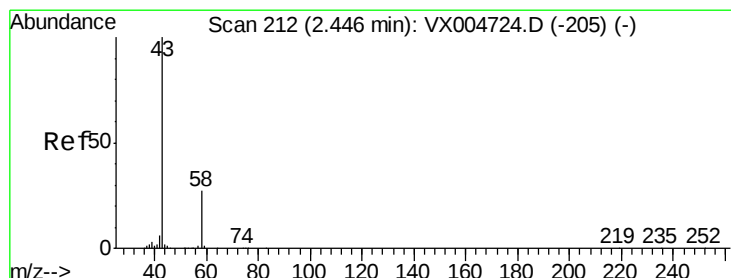
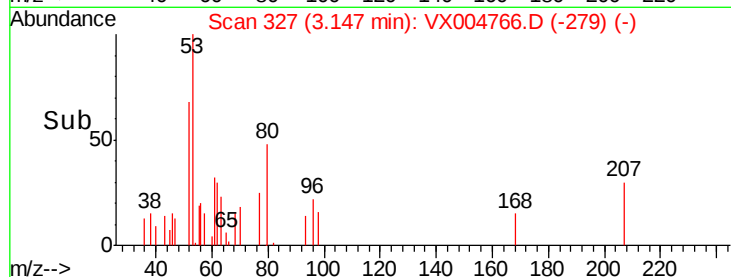
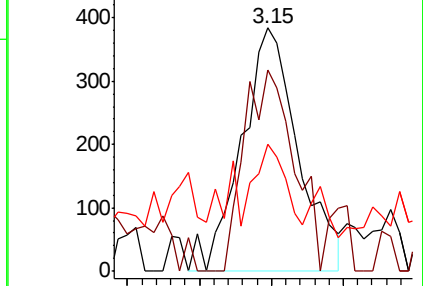
51 23.5 28.2 42.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 2.309 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004766.D

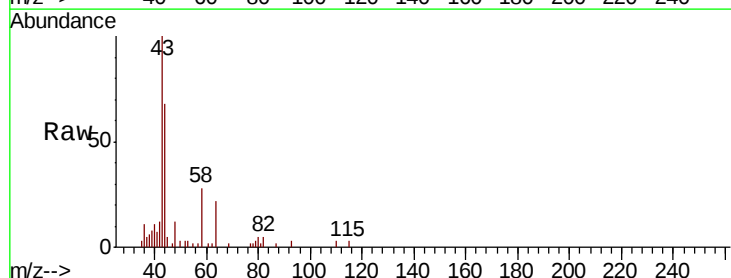
Acq: 27 Sep 2018 11:43

Tgt Ion: 43 Resp: 5365

Ion Ratio Lower Upper

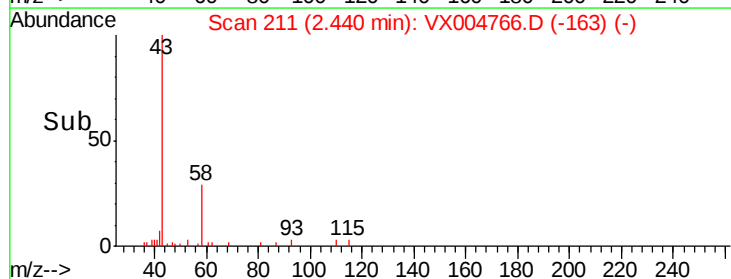
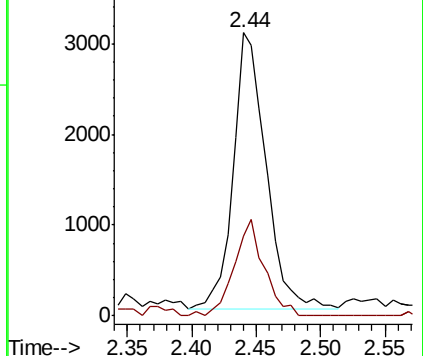
43 100

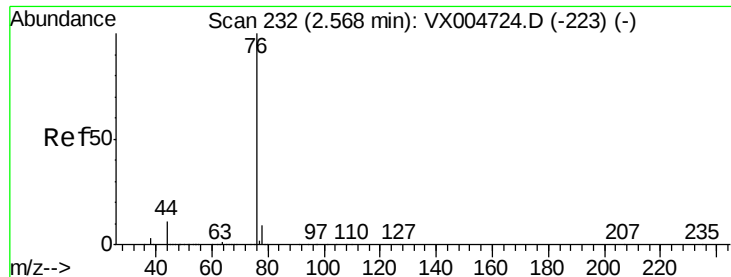
58 28.7 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

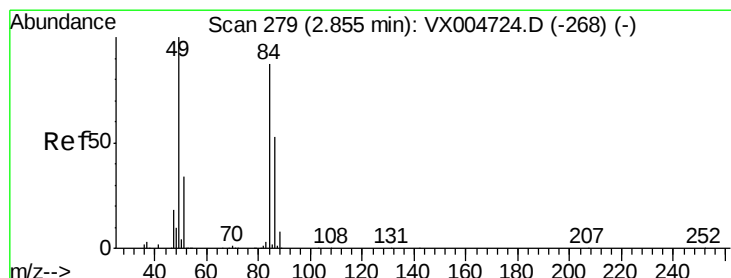
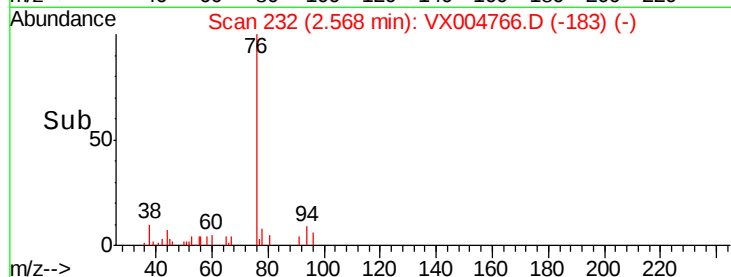
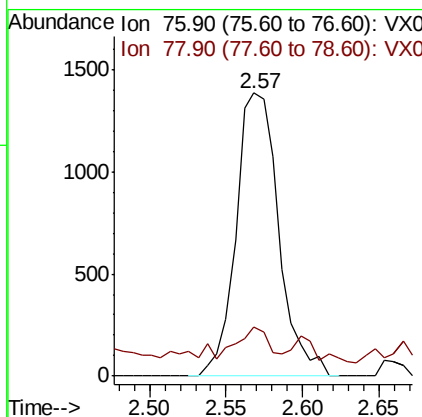
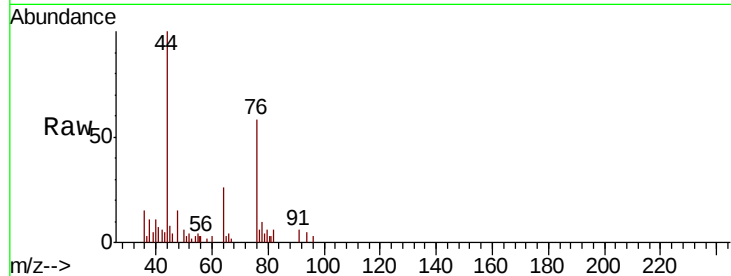




#17
Carbon Disulfide
Concen: 0.296 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX004766.D
Acq: 27 Sep 2018 11:43

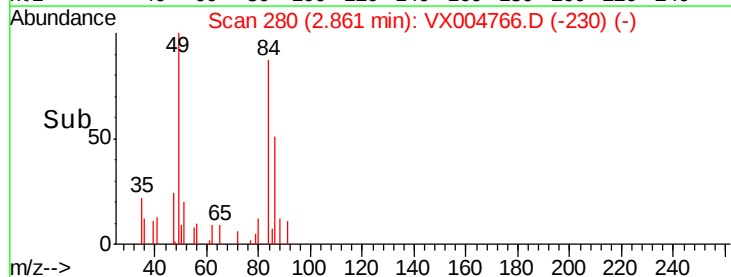
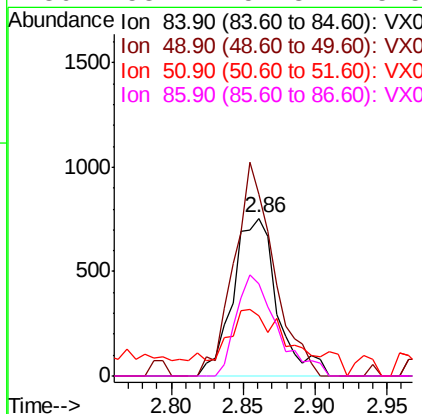
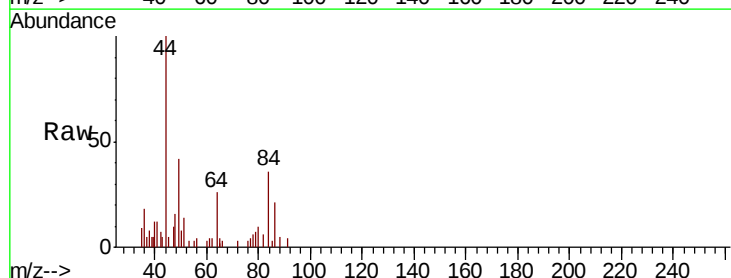
Instrument :
MSVOA_X
ClientSampleId :
TB-2-SEP18

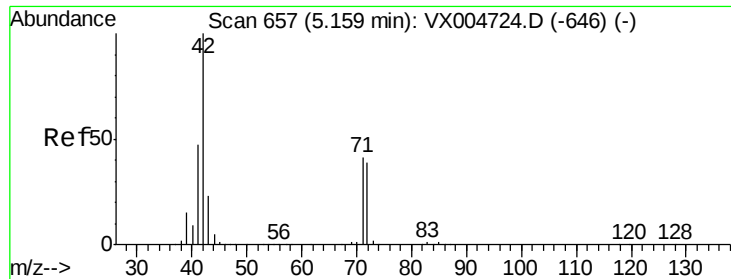
Tot Ion: 76 Resp: 2687
Ion Ratio Lower Upper
76 100
78 10.9 7.0 10.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004766.D
Acq: 27 Sep 2018 11:43

Tgt Ion: 84 Resp: 1608
Ion Ratio Lower Upper
84 100
49 114.8 101.2 151.8
51 29.1 29.5 44.3#
86 58.4 52.3 78.5





#29

Tetrahydrofuran

Concen: 0.448 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004766.D

Acq: 27 Sep 2018 11:43

Instrument :

MSVOA_X

ClientSampleId :

TB-2-SEP18

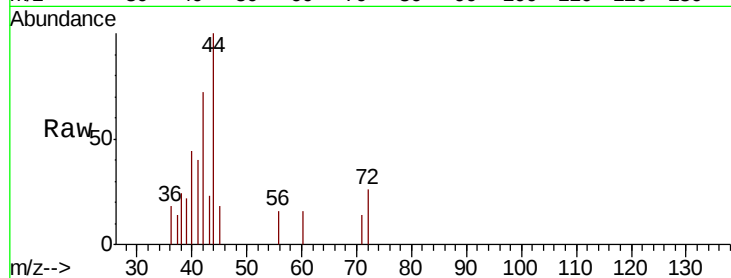
Tot Ion: 42 Resp: 953

Ion Ratio Lower Upper

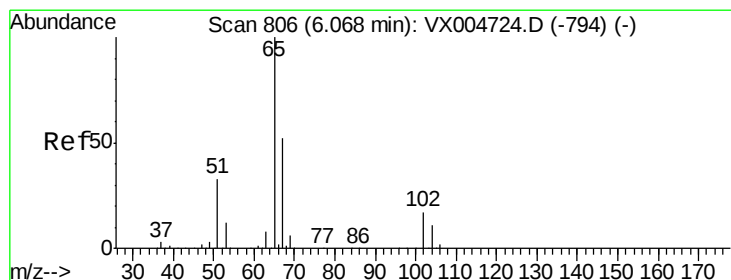
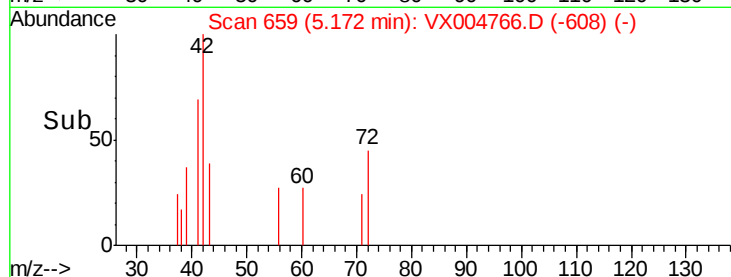
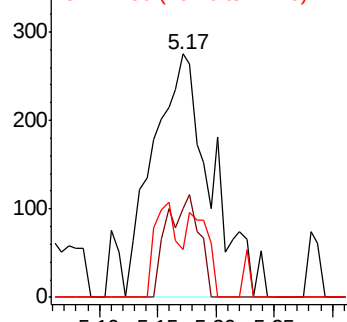
42 100

72 23.2 37.4 56.0#

71 12.8 34.5 51.7#



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



#33

1,2-Dichloroethane-d4

Concen: 49.659 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004766.D

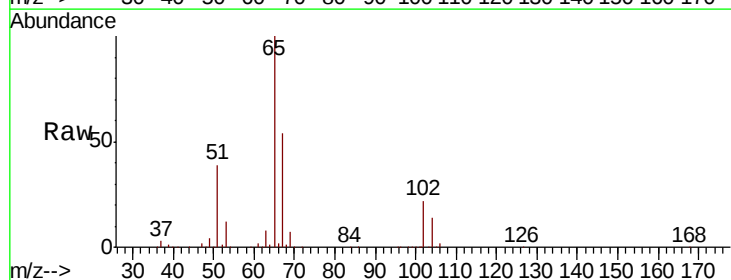
Acq: 27 Sep 2018 11:43

Tgt Ion: 65 Resp: 197603

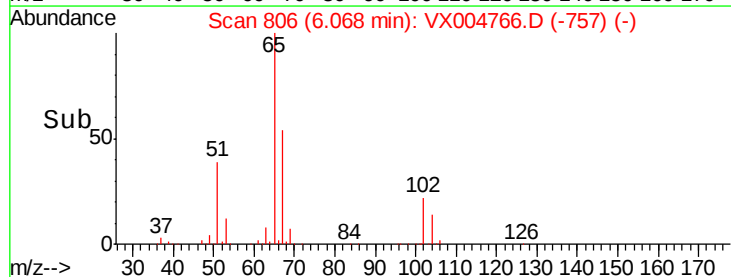
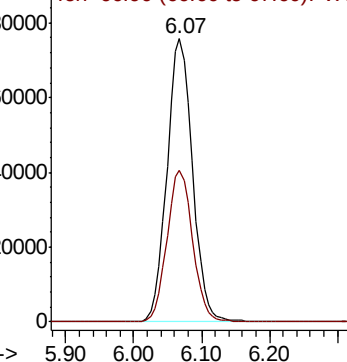
Ion Ratio Lower Upper

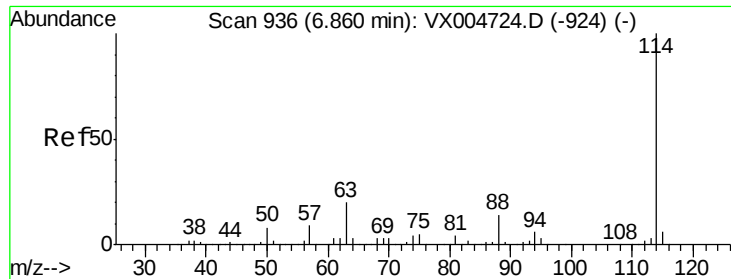
65 100

67 53.8 0.0 106.8



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

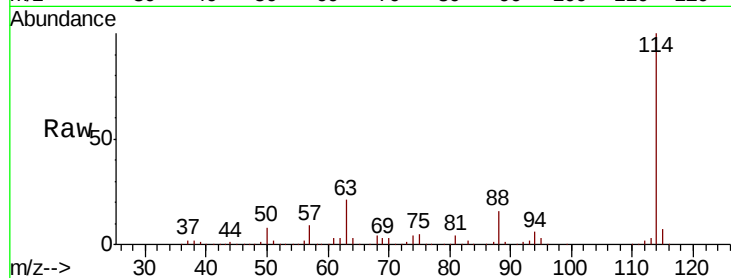




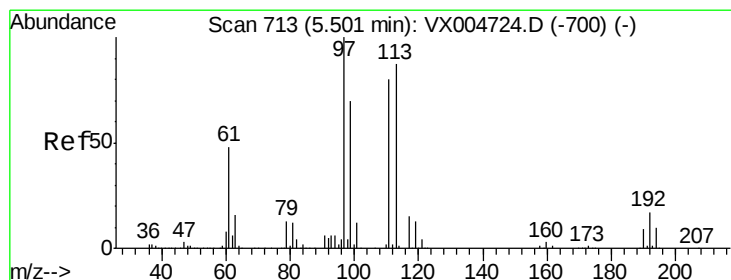
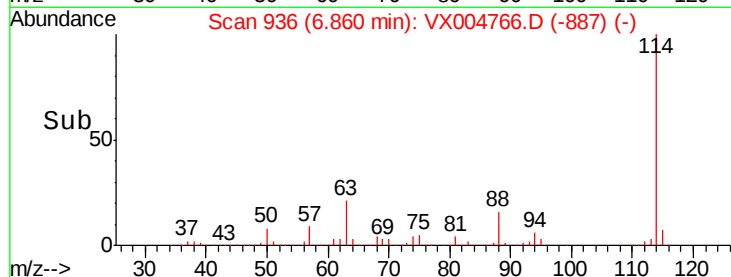
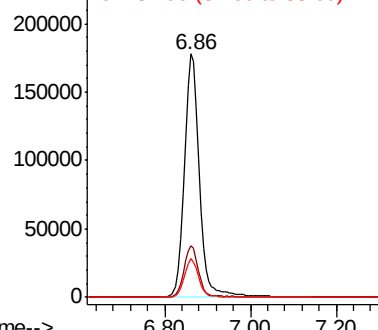
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004766.D
 Acq: 27 Sep 2018 11:43

Instrument :
 MSVOA_X
 ClientSampleId :
 TB-2-SEP18

Tot Ion:114 Resp: 443408
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 39.0
 88 16.0 0.0 30.4

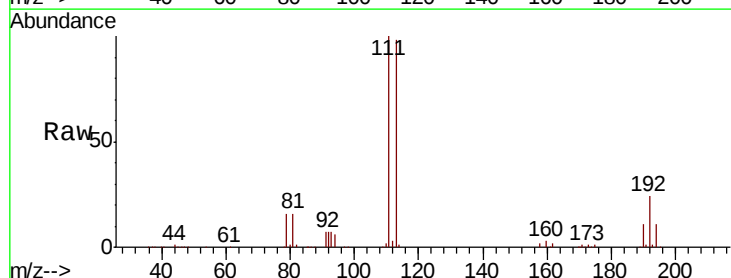


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

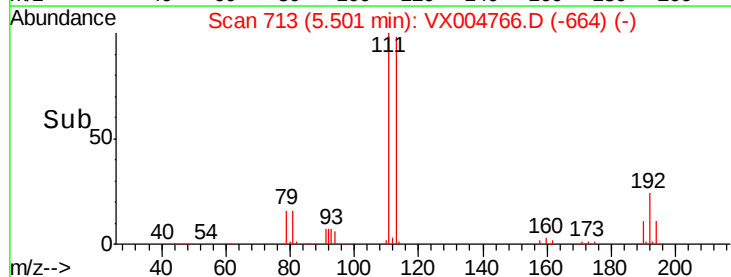
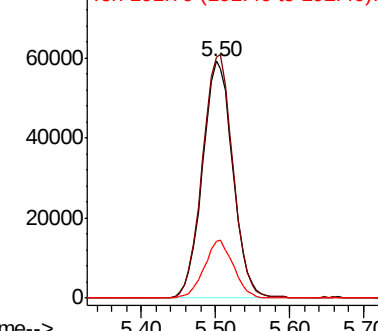


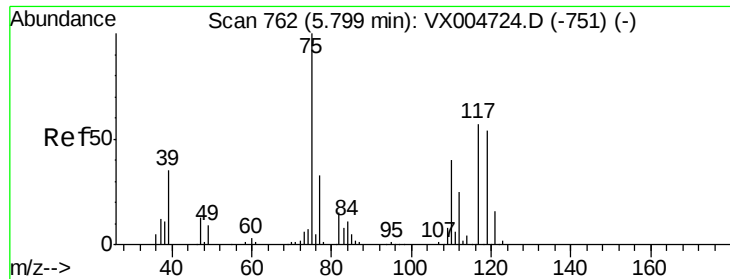
#35
 Dibromofluoromethane
 Concen: 45.085 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004766.D
 Acq: 27 Sep 2018 11:43

Tgt Ion:113 Resp: 169426
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.4 123.6
 192 23.4 19.4 29.2



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: 3.600 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004766.D

Acq: 27 Sep 2018 11:43

Instrument :

MSVOA_X

ClientSampleId :

TB-2-SEP18

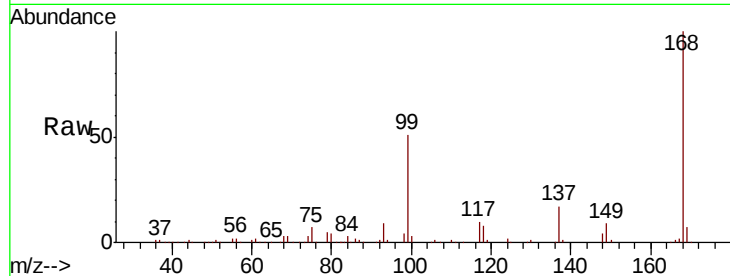
Tot Ion: 75 Resp: 18456

Ion Ratio Lower Upper

75 100

110 9.5 18.0 54.0#

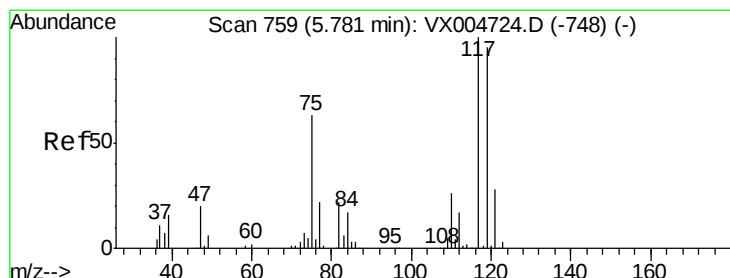
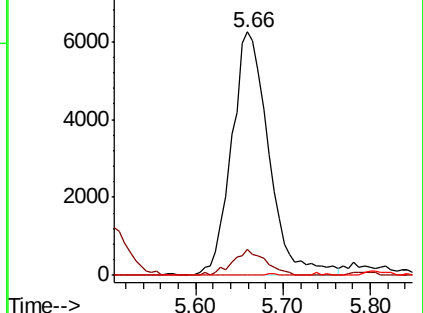
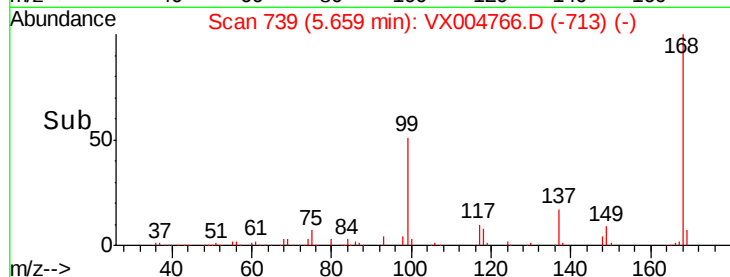
77 0.0 24.6 36.8#



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: 4.394 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004766.D

Acq: 27 Sep 2018 11:43

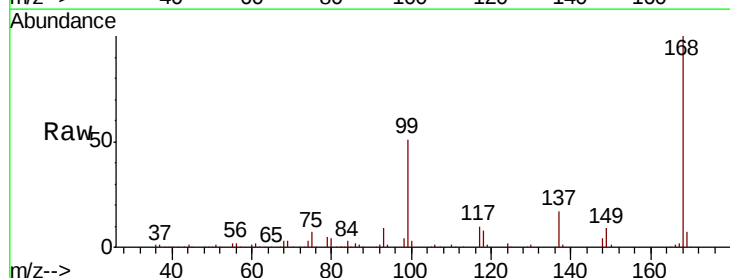
Tgt Ion: 117 Resp: 23682

Ion Ratio Lower Upper

117 100

119 5.9 78.8 118.2#

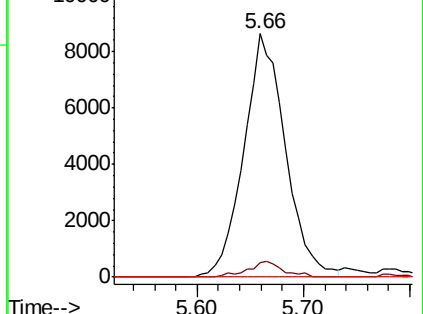
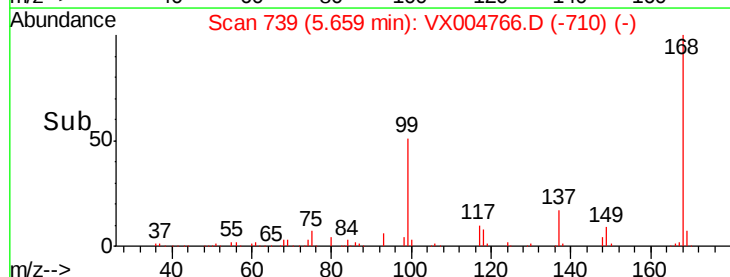
121 0.0 24.9 37.3#

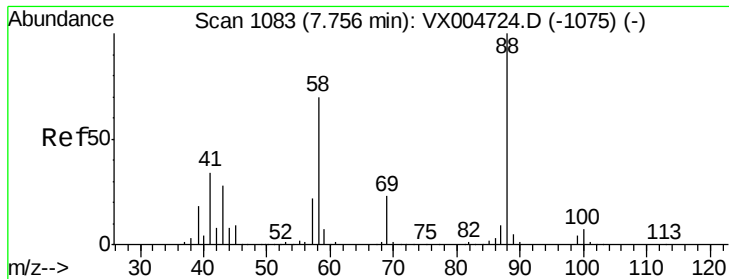


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

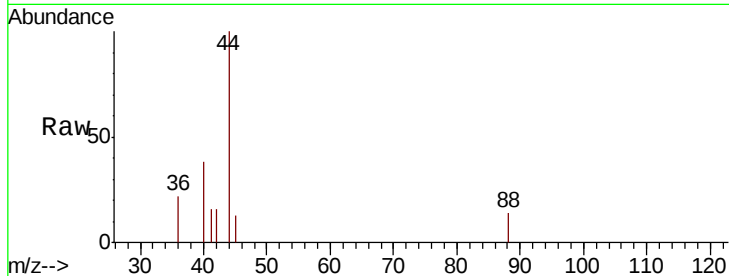




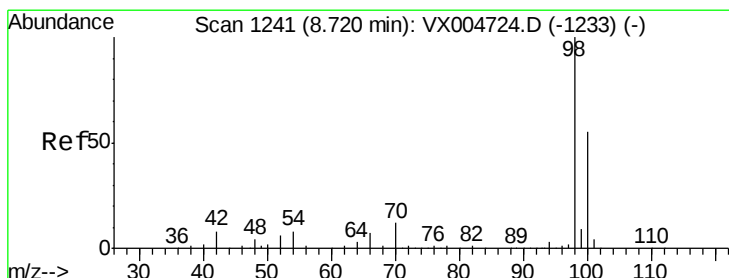
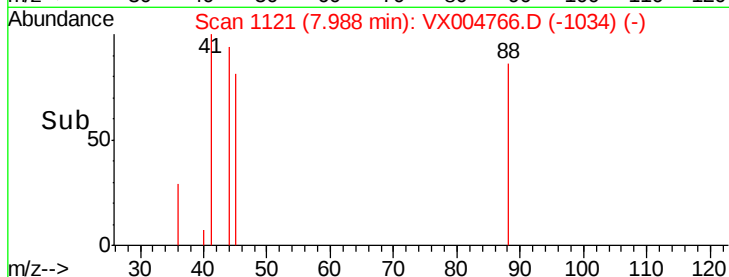
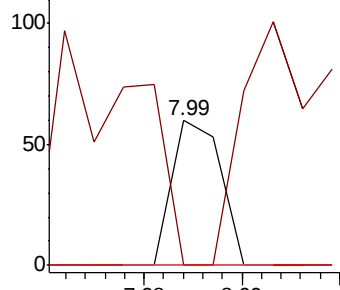
#49
1,4-Dioxane
Concen: 0.370 ug/l
RT: 7.99 min Scan# 1121
Delta R.T. 0.23 min
Lab File: VX004766.D
Acq: 27 Sep 2018 11:43

Instrument :
MSVOA_X
ClientSampled :
TB-2-SEP18

Tot Ion: 88 Resp: 41
Ion Ratio Lower Upper
88 100
43 336.6 24.7 37.1#
58 0.0 55.3 82.9#

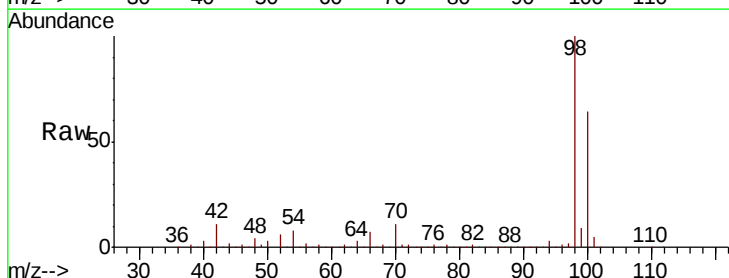


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

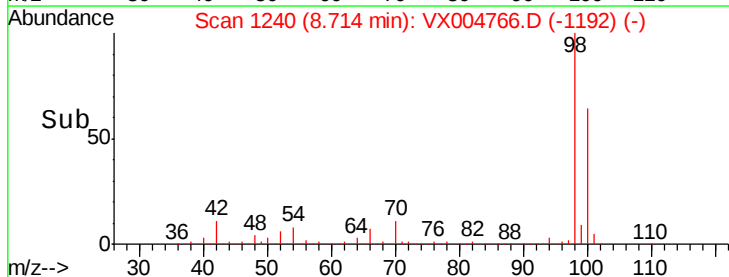
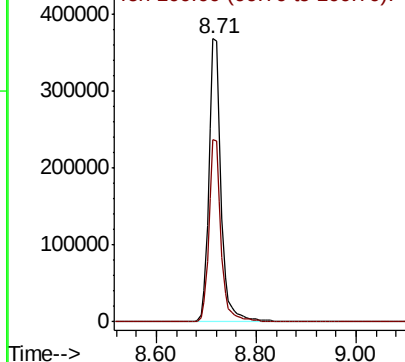


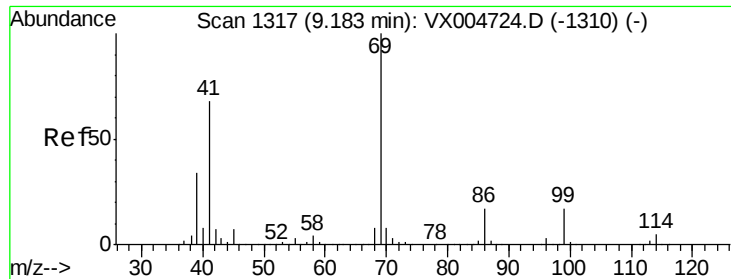
#50
Toluene-d8
Concen: 50.689 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX004766.D
Acq: 27 Sep 2018 11:43

Tgt Ion: 98 Resp: 633269
Ion Ratio Lower Upper
98 100
100 63.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 2.867 ug/l

RT: 9.19 min Scan# 1318

Delta R.T. 0.01 min

Lab File: VX004766.D

Acq: 27 Sep 2018 11:43

Instrument :

MSVOA_X

ClientSampled :

TB-2-SEP18

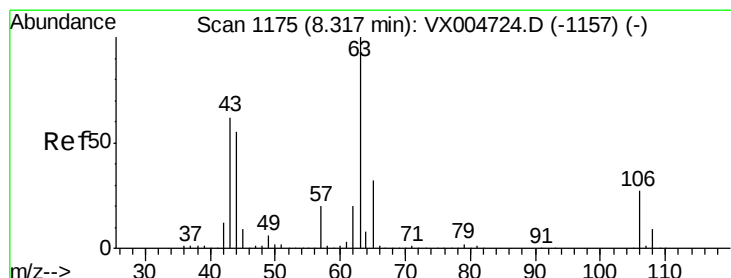
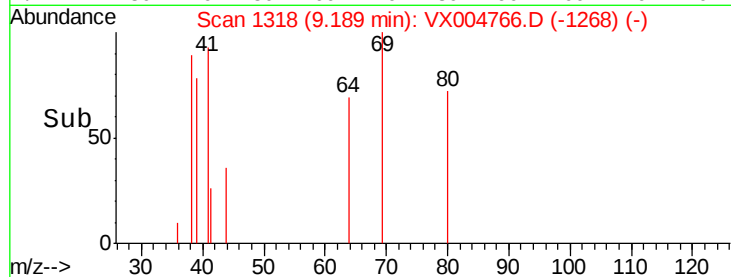
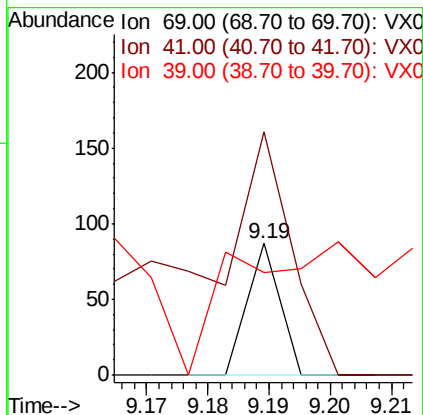
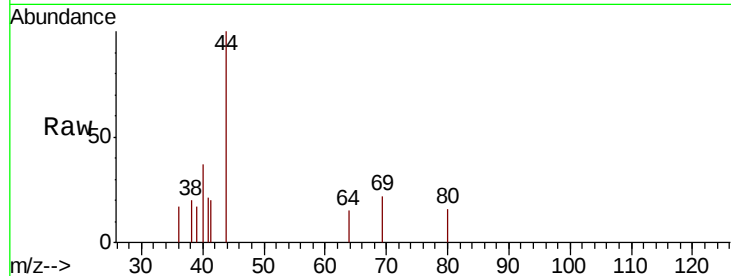
Tot Ion: 69 Resp: 32

Ion Ratio Lower Upper

69 100

41 625.0 51.0 76.4#

39 518.8 26.1 39.1#



#58

2-Chloroethyl Vinyl ether

Concen: 14.278 ug/l

RT: 8.32 min Scan# 1176

Delta R.T. 0.01 min

Lab File: VX004766.D

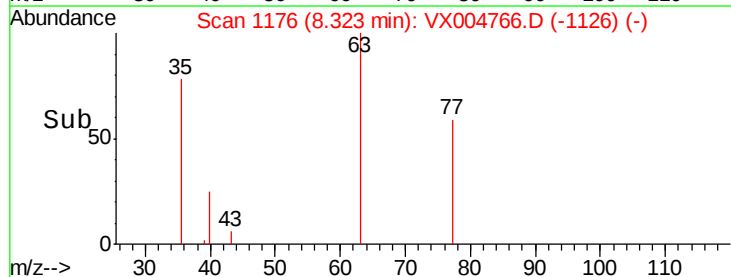
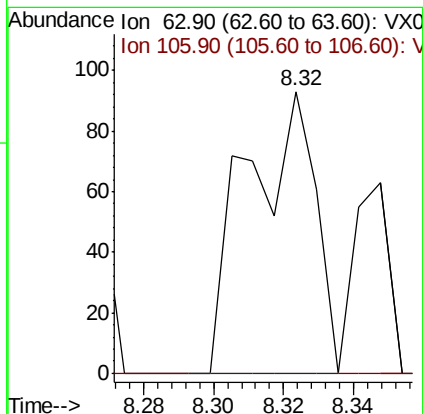
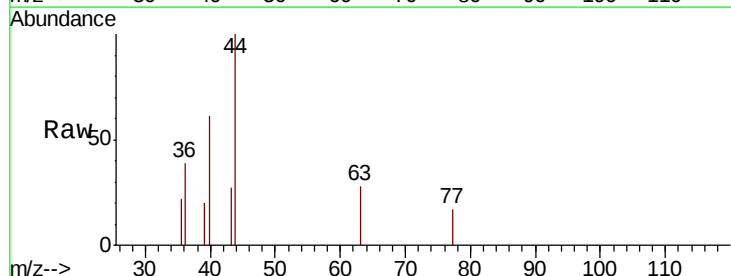
Acq: 27 Sep 2018 11:43

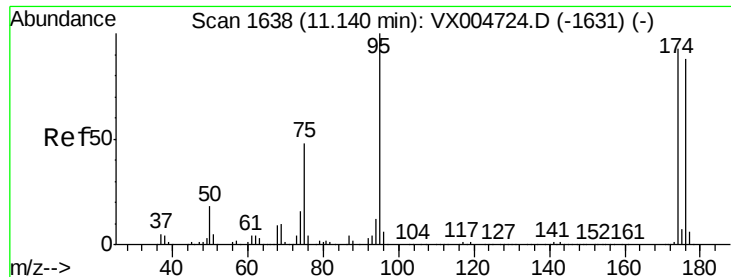
Tgt Ion: 63 Resp: 127

Ion Ratio Lower Upper

63 100

106 0.0 23.9 35.9#

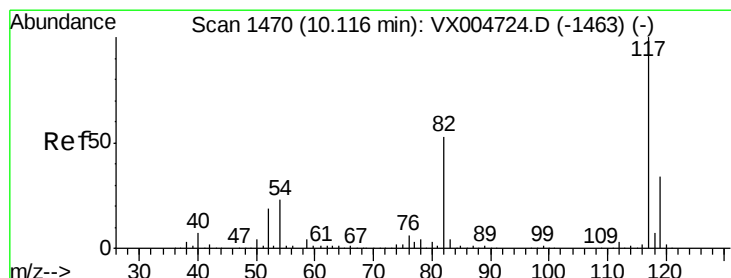
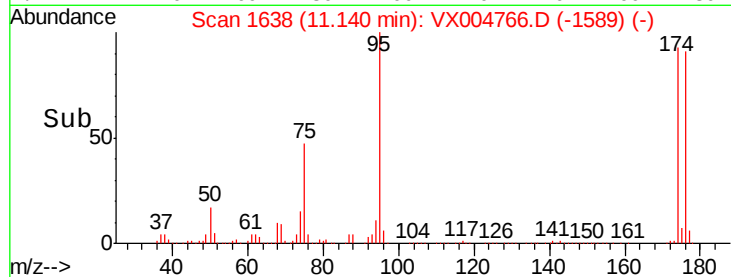
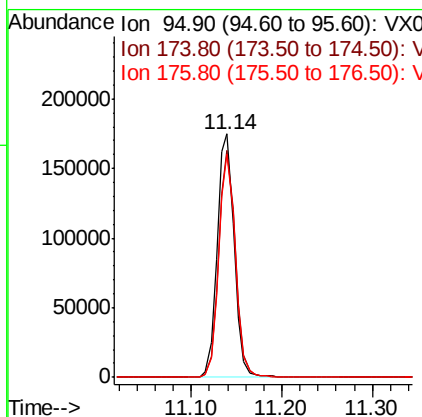
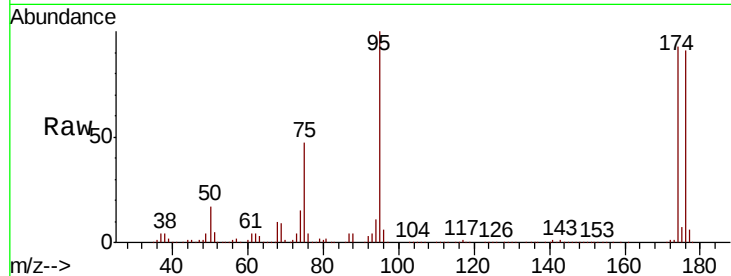




#62
4-Bromofluorobenzene
Concen: 50.922 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004766.D
Acq: 27 Sep 2018 11:43

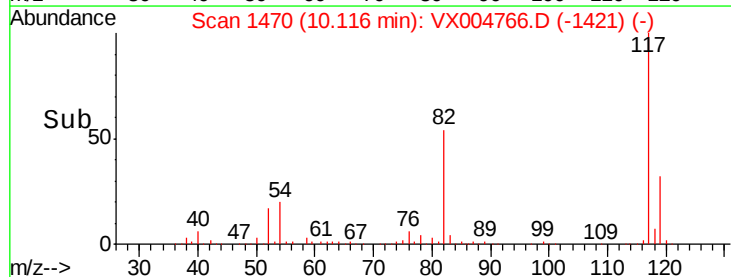
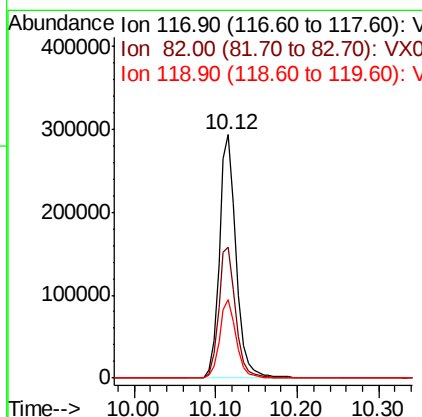
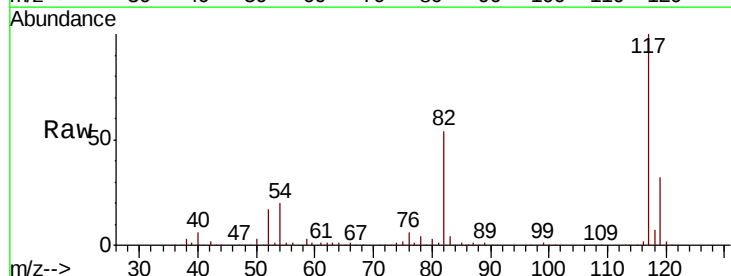
Instrument :
MSVOA_X
ClientSampleId :
TB-2-SEP18

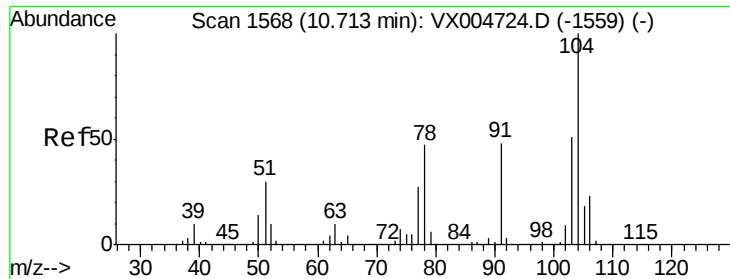
Tot Ion: 95 Resp: 229186
Ion Ratio Lower Upper
95 100
174 91.8 0.0 185.2
176 89.5 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004766.D
Acq: 27 Sep 2018 11:43

Tgt Ion: 117 Resp: 421154
Ion Ratio Lower Upper
117 100
82 54.0 47.8 71.6
119 32.3 29.3 43.9

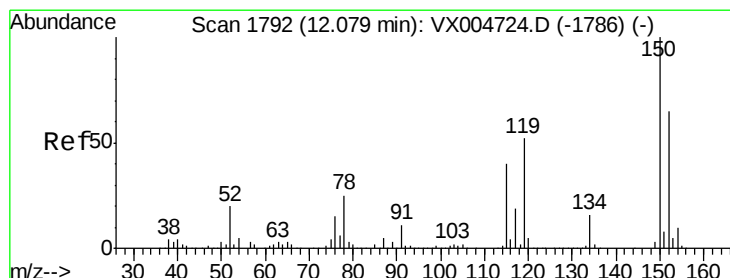
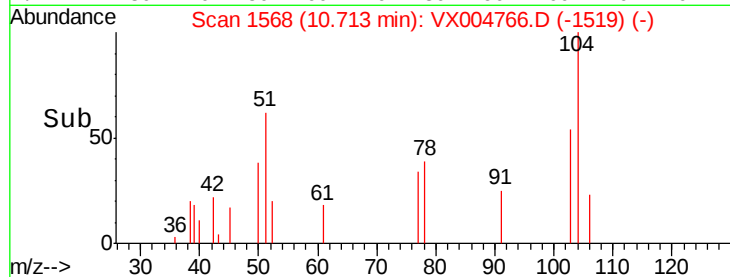
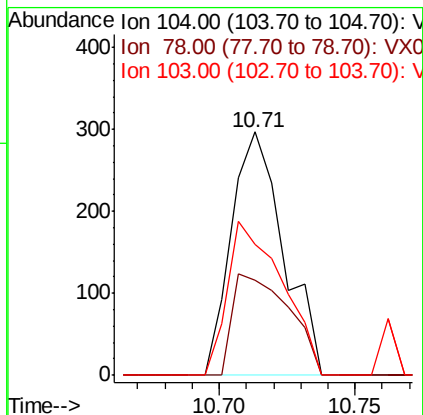
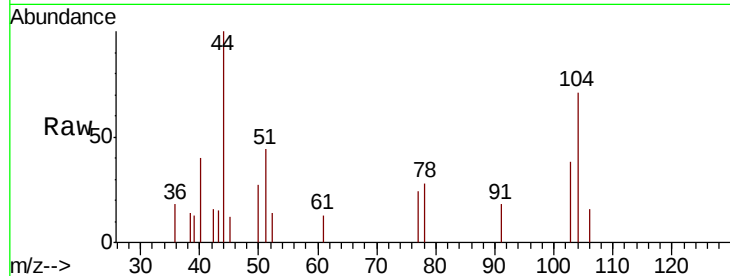




#70
Stvrene
Concen: 2.173 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX004766.D
Acq: 27 Sep 2018 11:43

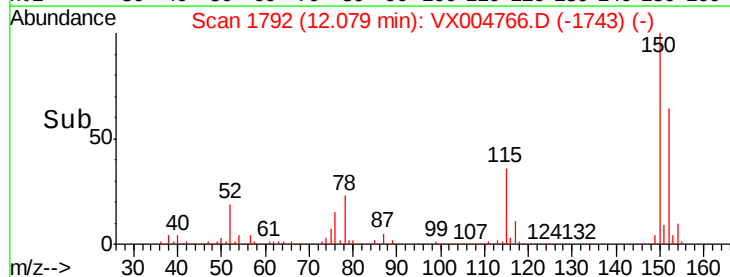
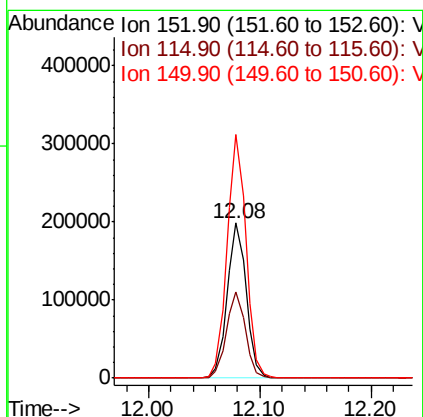
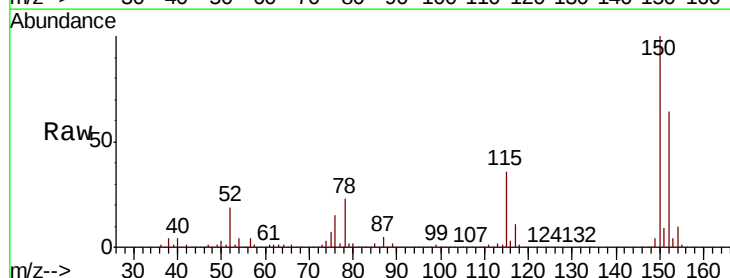
Instrument :
MSVOA_X
ClientSampleId :
TB-2-SEP18

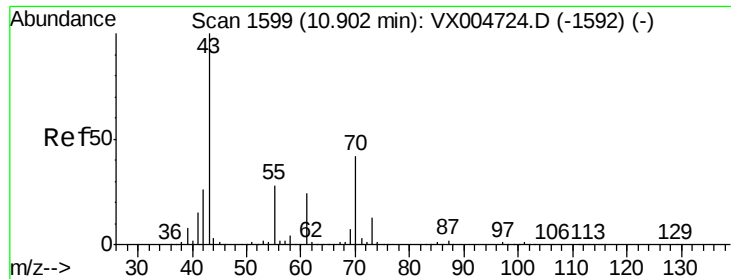
Tot Ion:104 Resp: 395
Ion Ratio Lower Upper
104 100
78 45.1 37.4 56.0
103 66.3 43.8 65.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004766.D
Acq: 27 Sep 2018 11:43

Tgt Ion:152 Resp: 234483
Ion Ratio Lower Upper
152 100
115 55.5 39.0 117.0
150 156.3 0.0 351.0





#74

N-amvl acetate

Concen: 1.775 ug/l

RT: 10.89 min Scan# 1597

Delta R.T. -0.01 min

Lab File: VX004766.D

Acq: 27 Sep 2018 11:43

Instrument :

MSVOA_X

ClientSampleId :

TB-2-SEP18

Tot Ion: 43 Resp: 227

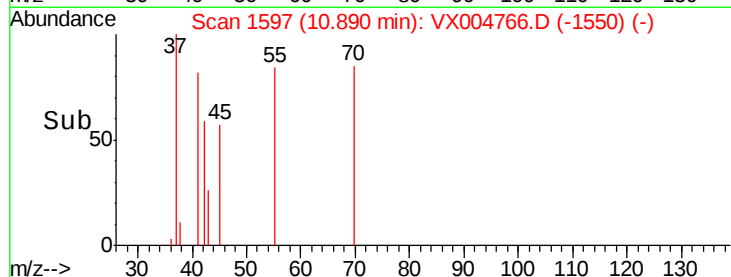
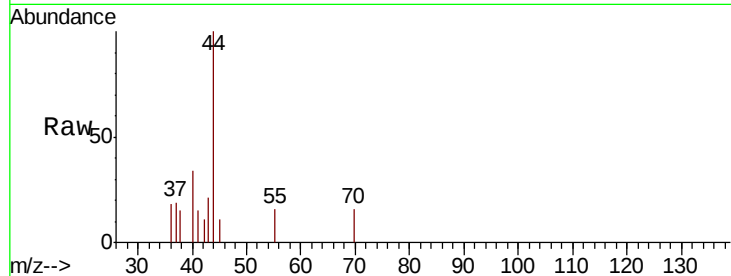
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 33.5 21.8 32.8#

61 0.0 20.6 30.8#

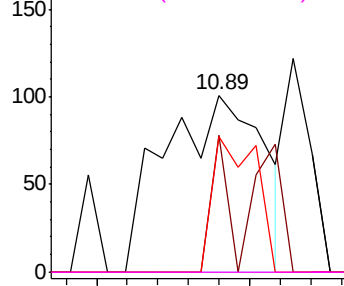


Abundance Ion 43.00 (42.70 to 43.70): VX0

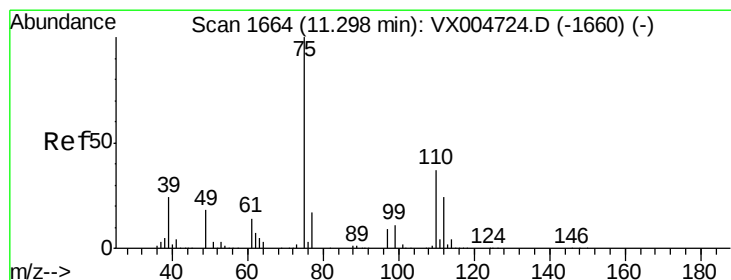
Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



Time-->



#76

1,2,3-Trichloropropane

Concen: 21.204 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004766.D

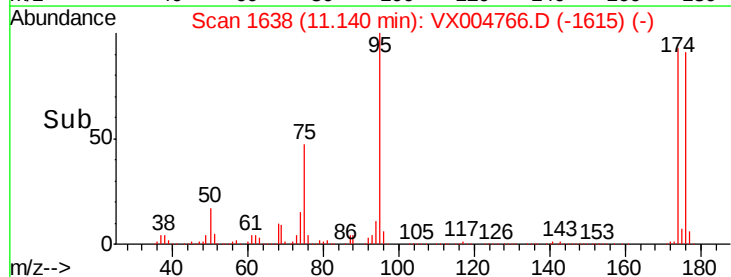
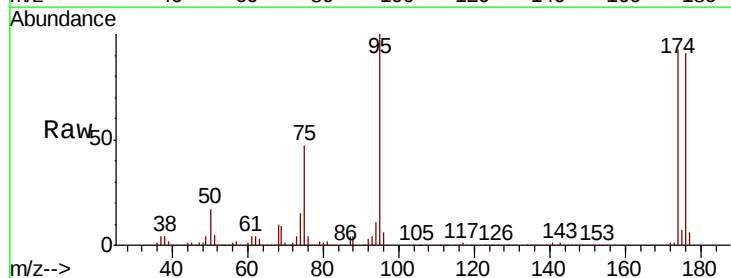
Acq: 27 Sep 2018 11:43

Tgt Ion: 75 Resp: 111442

Ion Ratio Lower Upper

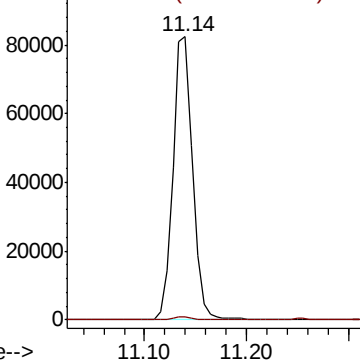
75 100

77 1.3 20.2 60.6#

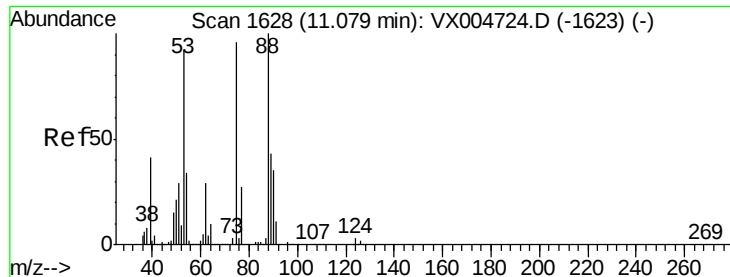


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 57.521 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004766.D

Acq: 27 Sep 2018 11:43

Instrument :

MSVOA_X

ClientSampled :

TB-2-SEP18

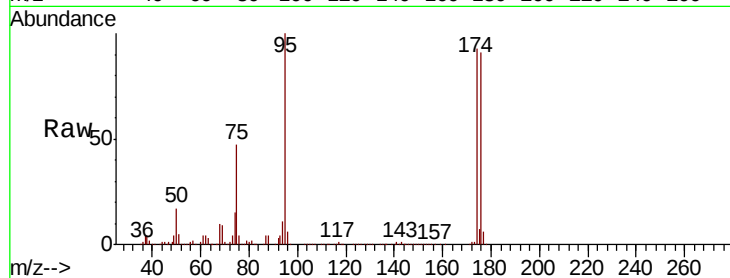
Tot Ion: 75 Resp: 111442

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

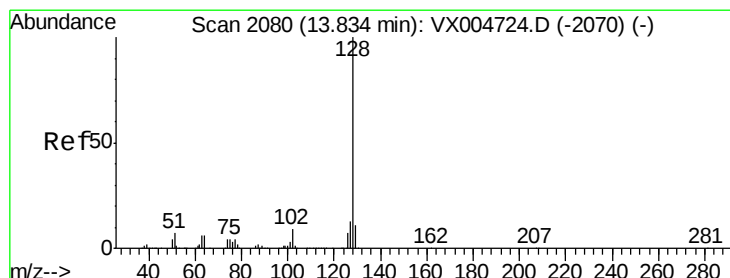
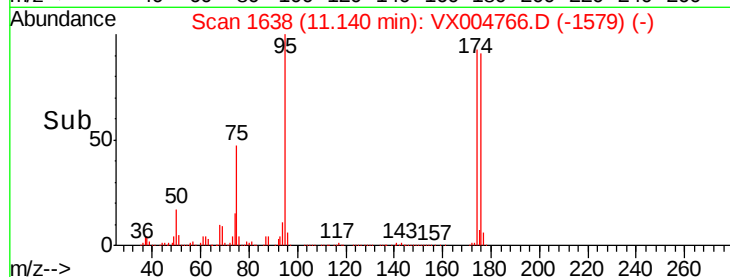
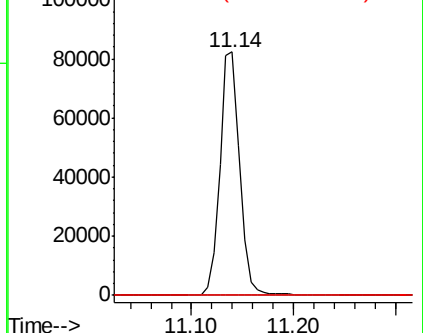
89 0.0 37.2 55.8#



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



#95

Naphthalene

Concen: 0.801 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004766.D

Acq: 27 Sep 2018 11:43

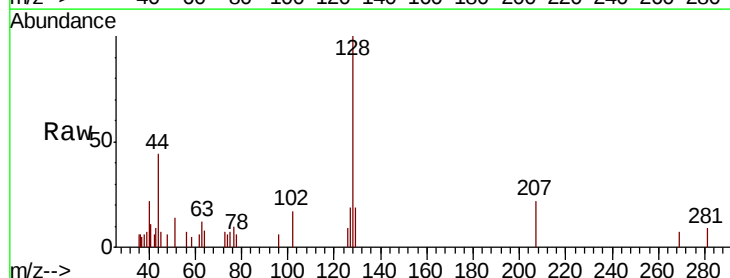
Tgt Ion: 128 Resp: 1608

Ion Ratio Lower Upper

128 100

127 15.6 10.2 15.2#

129 11.1 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

