

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091318\
 Data File : VX004527.D
 Acq On : 13 Sep 2018 20:08
 Operator : JC/MD
 Sample : J4892-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-03-091218

Quant Time: Sep 14 03:56:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	249464	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	336880	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	321946	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	175779	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	165630	51.49	ug/l	0.00
Spiked Amount			Recovery	=	102.98%	
35) Dibromofluoromethane	5.50	113	153626	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
50) Toluene-d8	8.72	98	484693	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	
62) 4-Bromofluorobenzene	11.14	95	167715	45.45	ug/l	0.00
Spiked Amount			Recovery	=	90.90%	

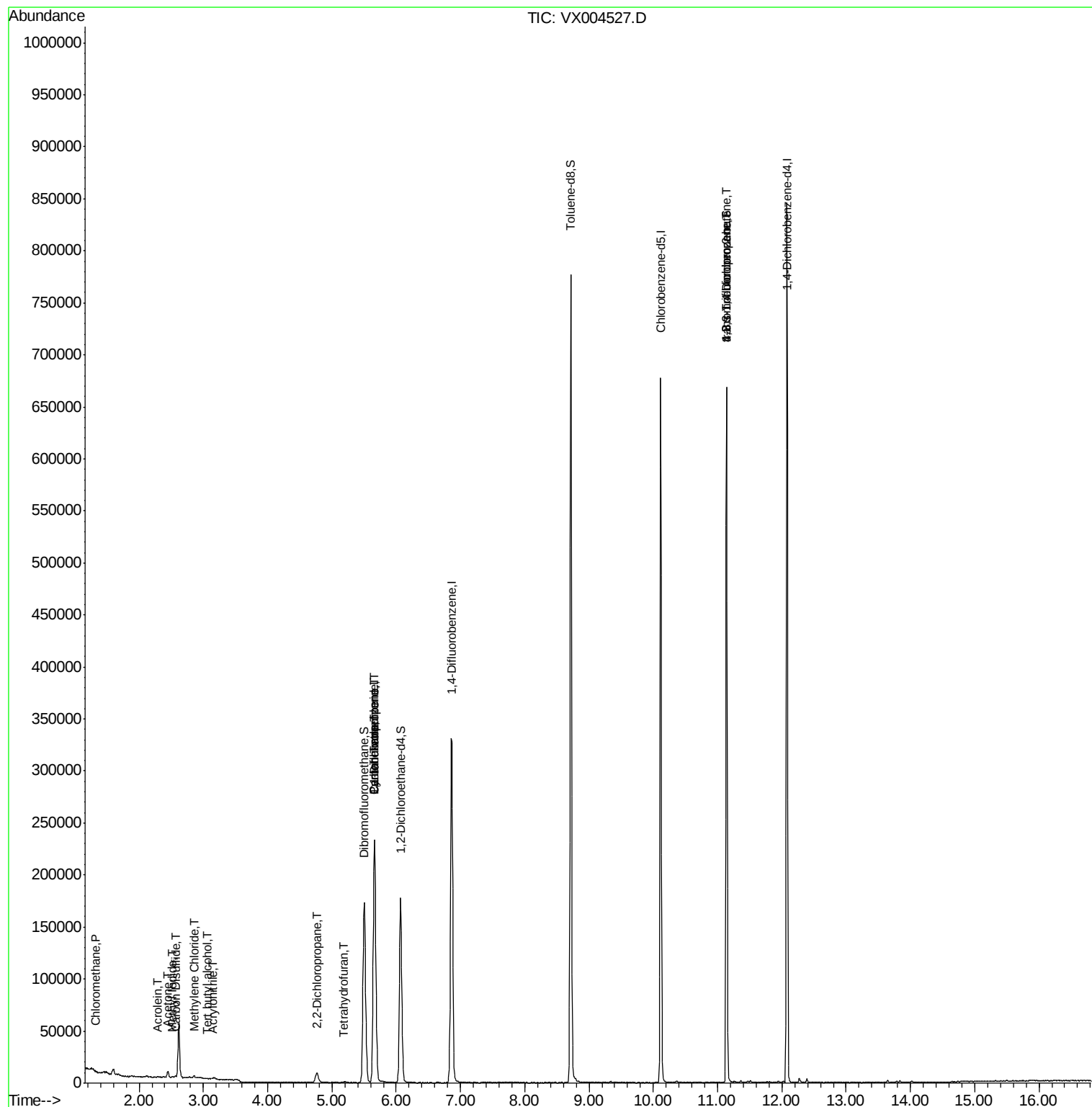
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	702	0.22	ug/l	90
5) Bromomethane	1.64	94	864	Below Cal	#	76
10) Methyl Iodide	2.52	142	1002	4.53	ug/l	# 94
11) Tert butyl alcohol	3.07	59	202	0.26	ug/l	# 72
13) Acrolein	2.29	56	260	0.86	ug/l	# 36
15) Acrylonitrile	3.15	53	532	0.29	ug/l	# 59
16) Acetone	2.44	43	4709	3.00	ug/l	# 89
17) Carbon Disulfide	2.57	76	1660	0.22	ug/l	# 85
20) Methylene Chloride	2.85	84	884	0.27	ug/l	# 94
26) 2,2-Dichloropropane	4.77	77	924	0.25	ug/l	# 52
29) Tetrahydrofuran	5.18	42	566	0.38	ug/l	# 52
31) Cyclohexane	5.66	56	4376	0.94	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	16258	3.98	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	21595	5.41	ug/l	# 15
76) 1,2,3-Trichloropropane	11.14	75	79084	22.36	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	79084	71.28	ug/l	# 10

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004527.D

Acq: 13 Sep 2018 20:08

Instrument :

MSVOA_X

ClientSampleId :

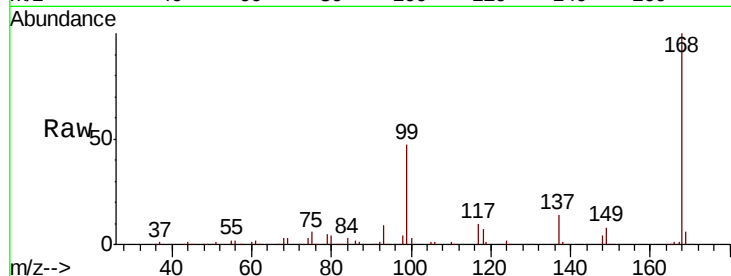
PR-MW-03-091218

Tot Ion:168 Resp: 249464

Ion Ratio Lower Upper

168 100

99 46.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

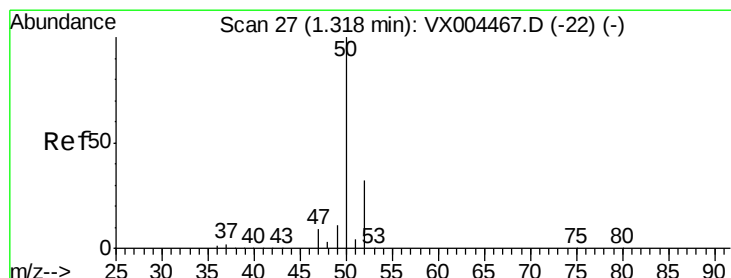
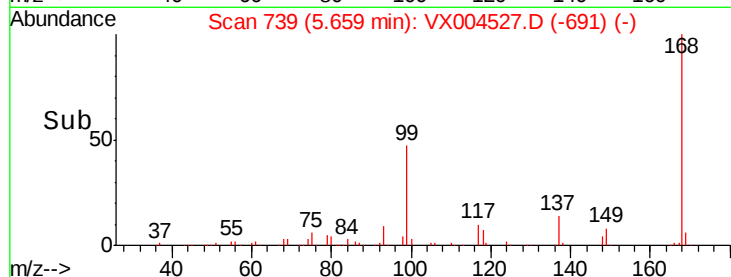
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.22 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004527.D

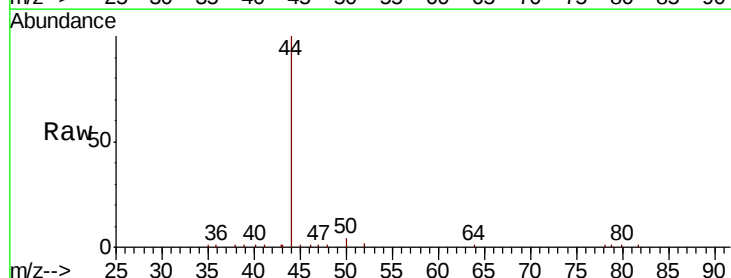
Acq: 13 Sep 2018 20:08

Tgt Ion: 50 Resp: 702

Ion Ratio Lower Upper

50 100

52 38.3 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

300

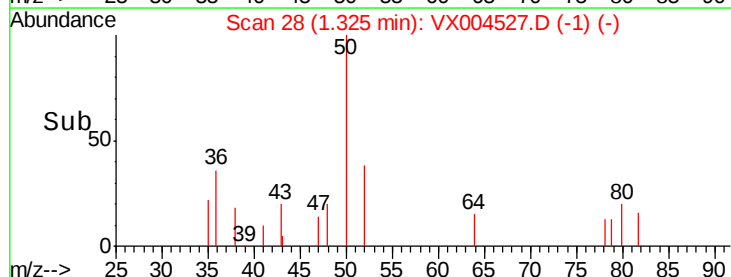
200

100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004527.D

Acq: 13 Sep 2018 20:08

Instrument :

MSVOA_X

ClientSampleId :

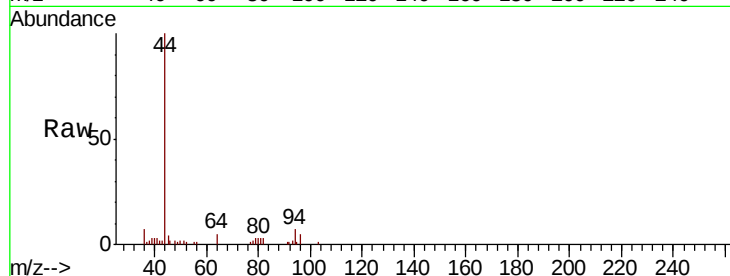
PR-MW-03-091218

Tot Ion: 94 Resp: 864

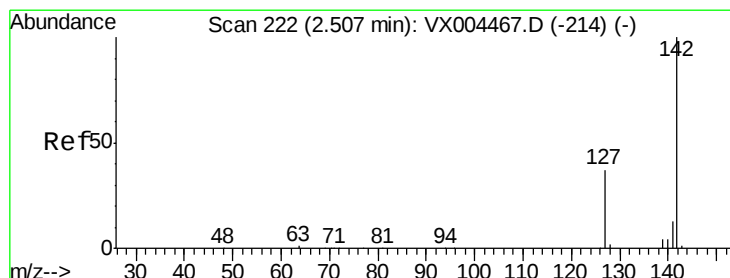
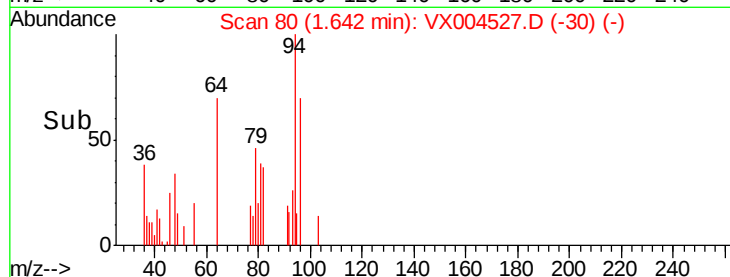
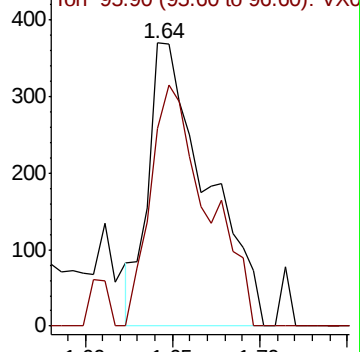
Ion Ratio Lower Upper

94 100

96 70.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#10

Methyl Iodide

Concen: 4.53 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004527.D

Acq: 13 Sep 2018 20:08

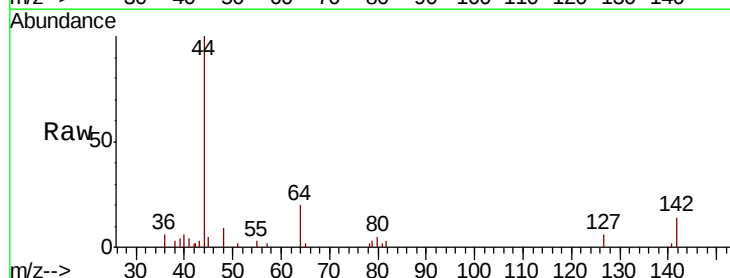
Tgt Ion: 142 Resp: 1002

Ion Ratio Lower Upper

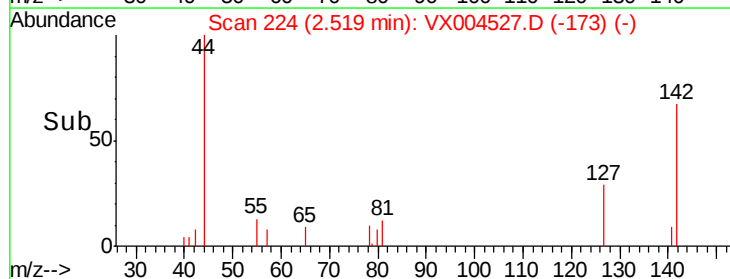
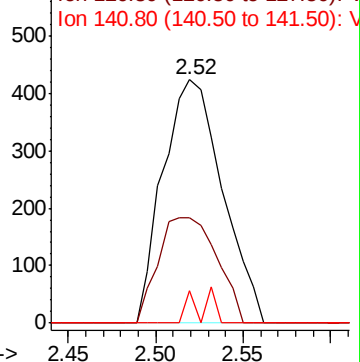
142 100

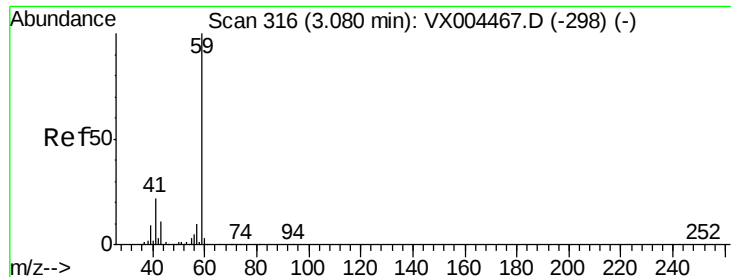
127 42.5 33.8 50.6

141 4.4 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

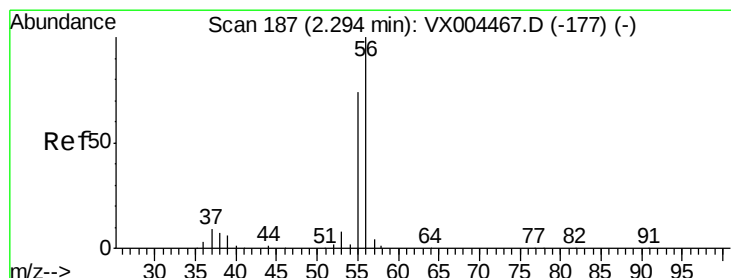
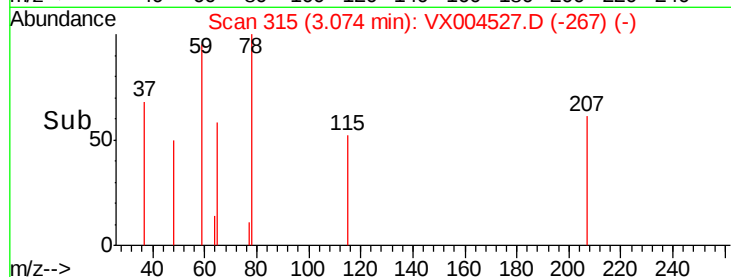
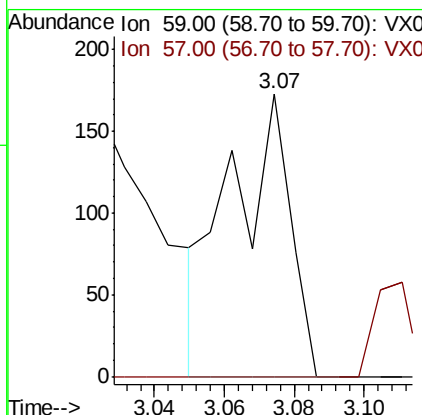
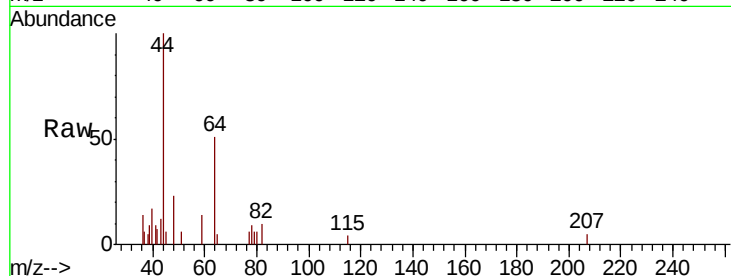




#11
Tert butyl alcohol
Concen: 0.26 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004527.D
Acq: 13 Sep 2018 20:08

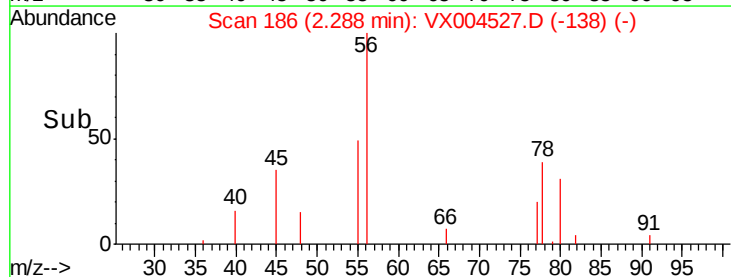
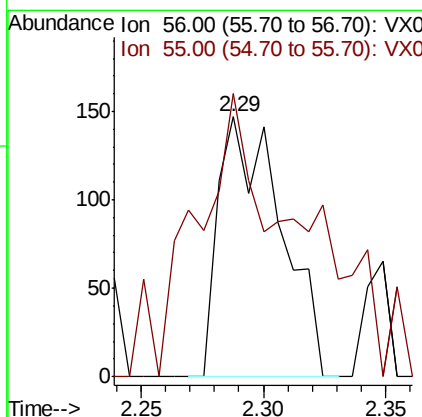
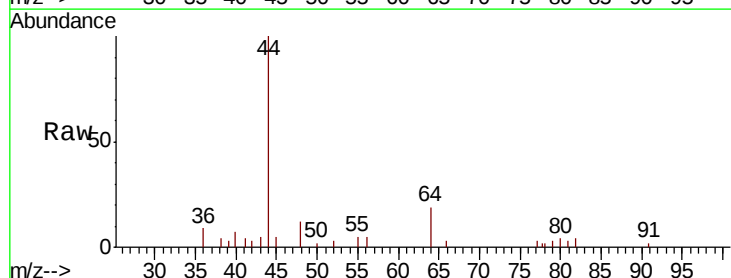
Instrument :
MSVOA_X
ClientSampleId :
PR-MW-03-091218

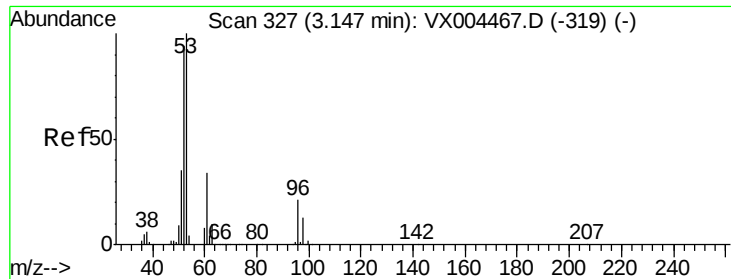
Tot Ion: 59 Resp: 202
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.86 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX004527.D
Acq: 13 Sep 2018 20:08

Tgt Ion: 56 Resp: 260
Ion Ratio Lower Upper
56 100
55 120.4 54.7 82.1#





#15

Acrylonitrile

Concen: 0.29 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.00 min

Lab File: VX004527.D

Acq: 13 Sep 2018 20:08

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-03-091218

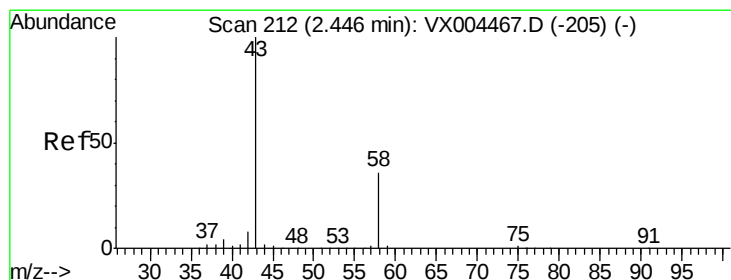
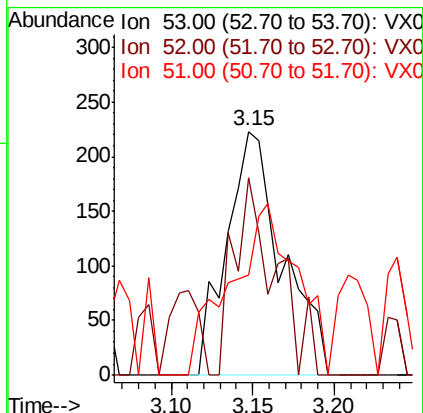
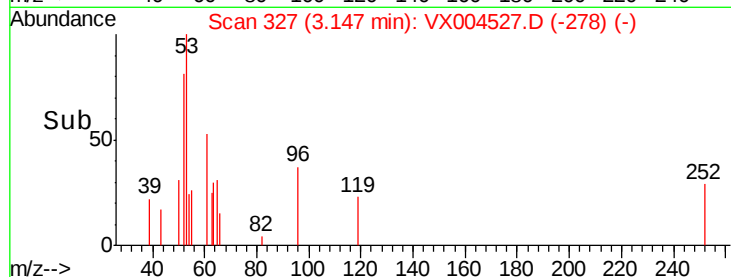
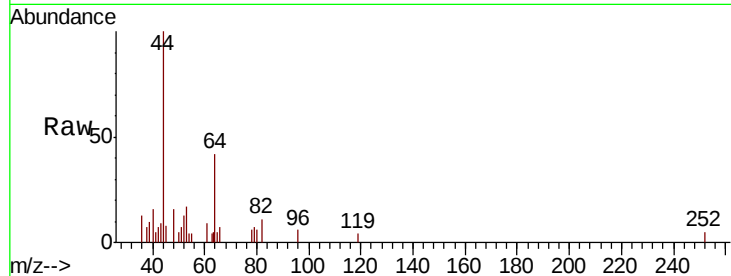
Tot Ion: 53 Resp: 532

Ion Ratio Lower Upper

53 100

52 61.3 65.2 97.8#

51 83.3 28.2 42.2#



#16

Acetone

Concen: 3.00 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004527.D

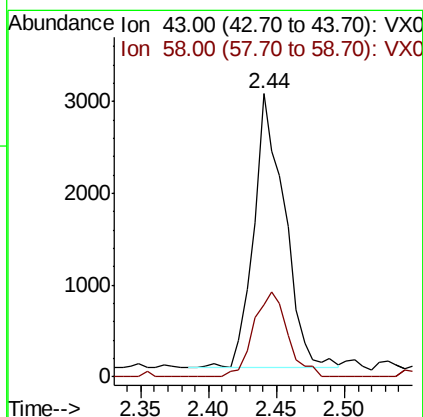
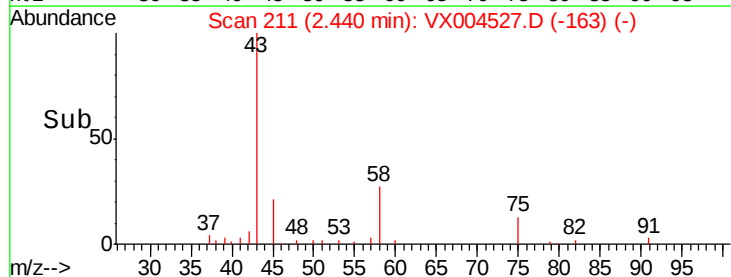
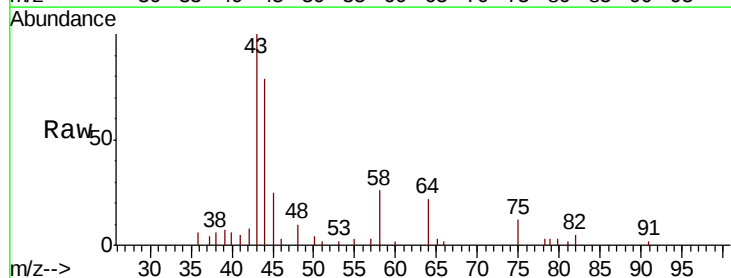
Acq: 13 Sep 2018 20:08

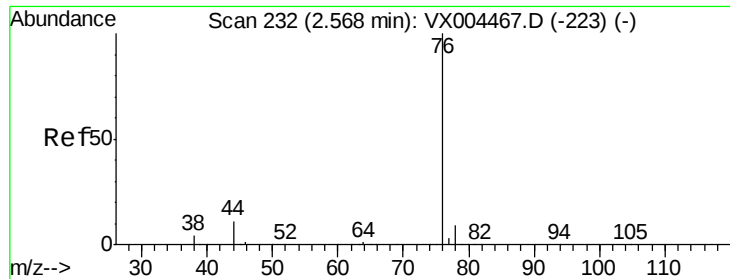
Tgt Ion: 43 Resp: 4709

Ion Ratio Lower Upper

43 100

58 26.5 26.2 39.4





#17

Carbon Disulfide

Concen: 0.22 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX004527.D

Acq: 13 Sep 2018 20:08

Instrument :

MSVOA_X

ClientSampleId :

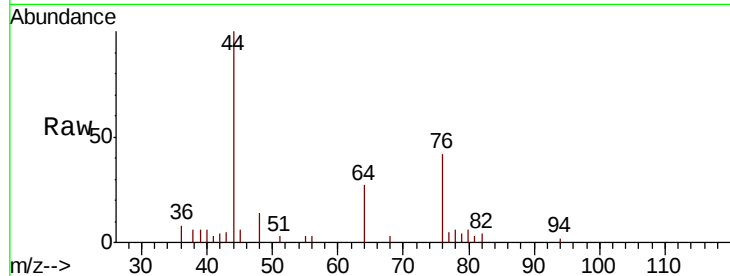
PR-MW-03-091218

Tot Ion: 76 Resp: 1660

Ion Ratio Lower Upper

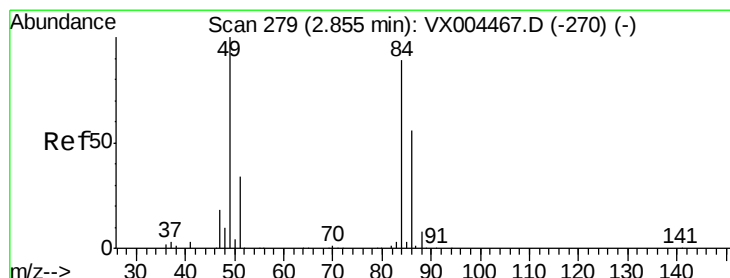
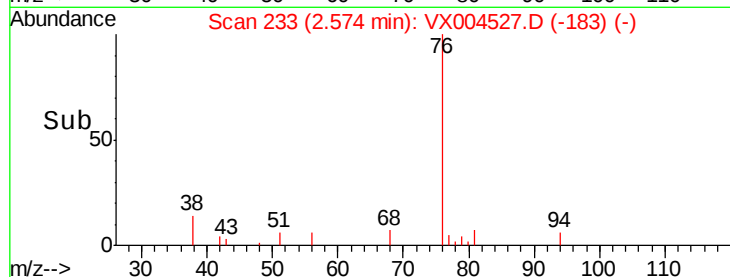
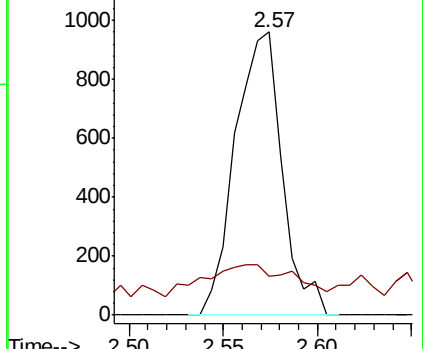
76 100

78 3.2 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.27 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004527.D

Acq: 13 Sep 2018 20:08

Tgt Ion: 84 Resp: 884

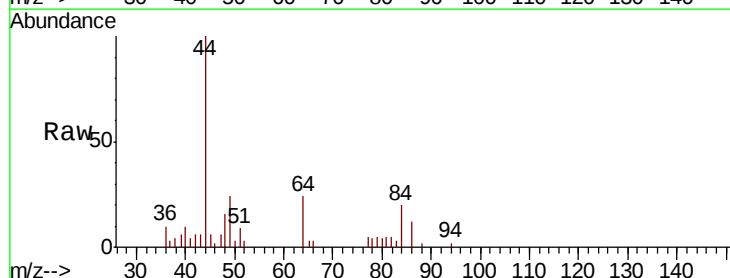
Ion Ratio Lower Upper

84 100

49 119.0 101.2 151.8

51 30.8 29.5 44.3

86 62.2 52.3 78.5

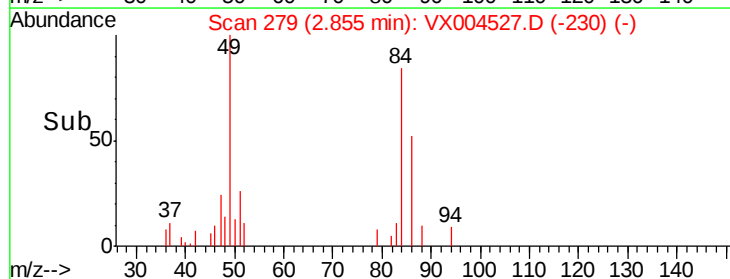
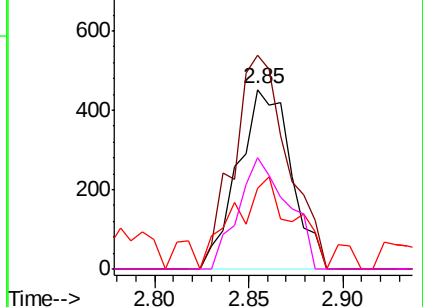


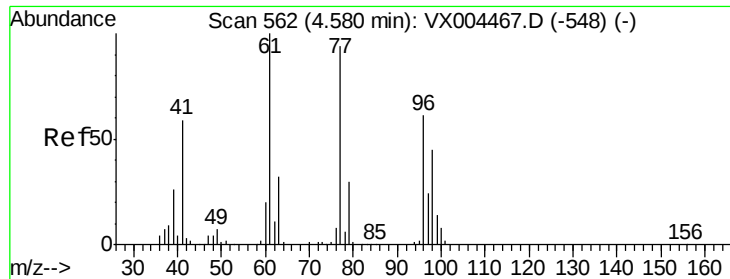
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#26

2,2-Dichloropropane

Concen: 0.25 ug/l

RT: 4.77 min Scan# 593

Delta R.T. 0.19 min

Lab File: VX004527.D

Acq: 13 Sep 2018 20:08

Instrument :

MSVOA_X

ClientSampleId :

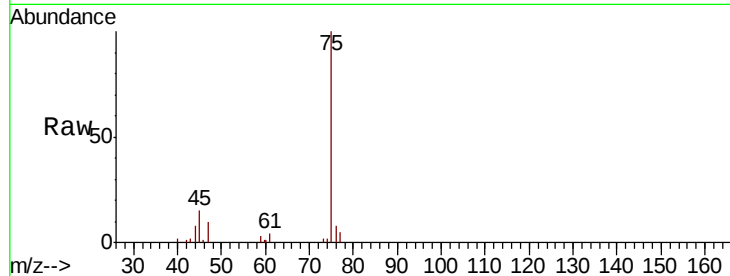
PR-MW-03-091218

Tot Ion: 77 Resp: 924

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.77

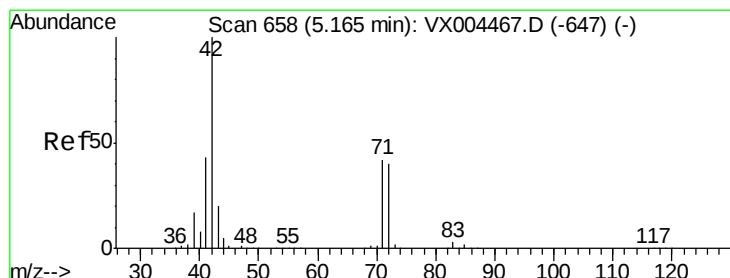
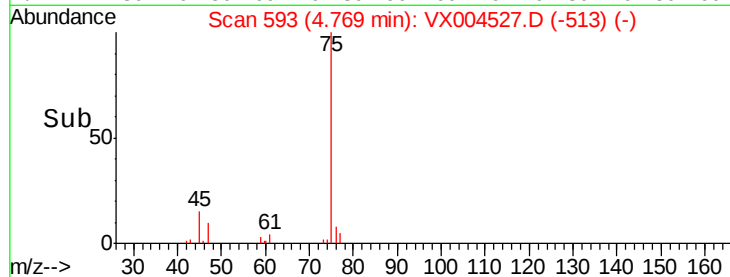
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 0.38 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.01 min

Lab File: VX004527.D

Acq: 13 Sep 2018 20:08

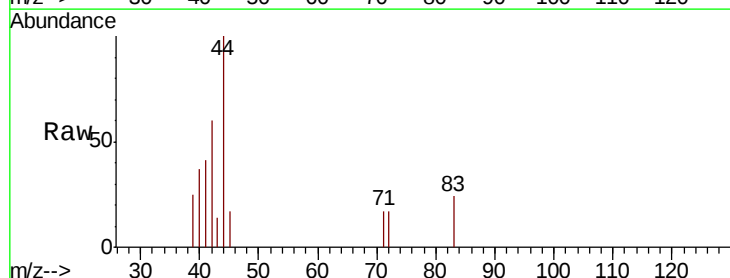
Tgt Ion: 42 Resp: 566

Ion Ratio Lower Upper

42 100

72 12.2 37.4 56.0#

71 15.4 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

5.18

300

250

200

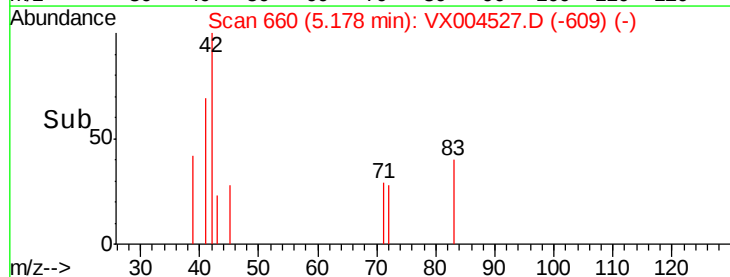
150

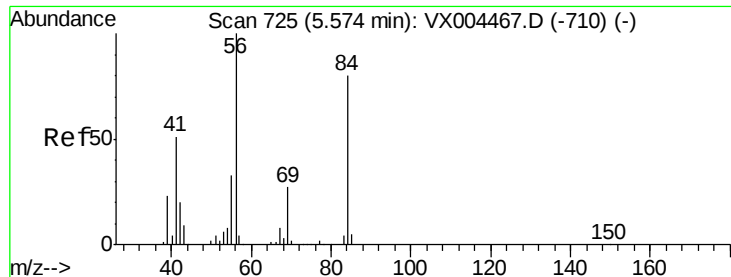
100

50

0

Time-->

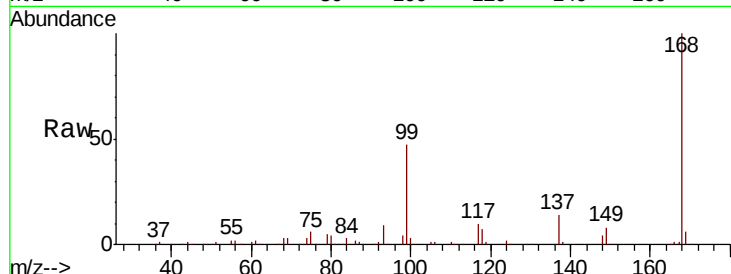




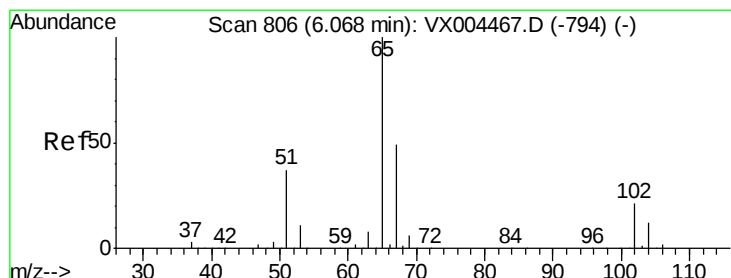
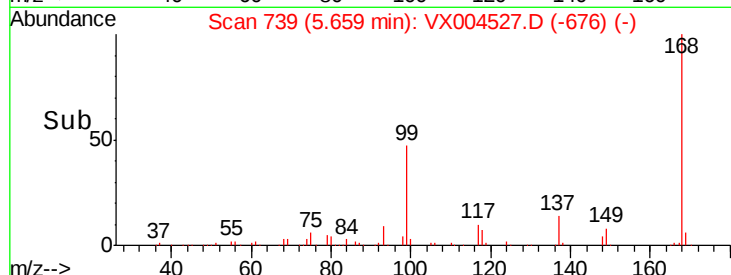
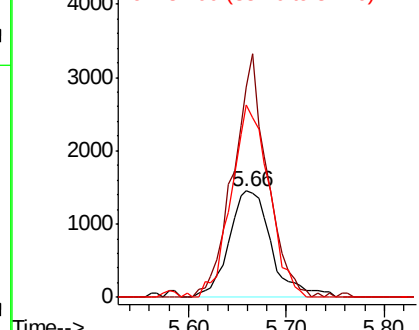
#31
Cyclohexane
Concen: 0.94 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004527.D
Acq: 13 Sep 2018 20:08

Instrument :
MSVOA_X
ClientSampleId :
PR-MW-03-091218

Tot Ion: 56 Resp: 4376
Ion Ratio Lower Upper
56 100
69 198.5 25.4 38.2#
84 181.1 71.4 107.2#

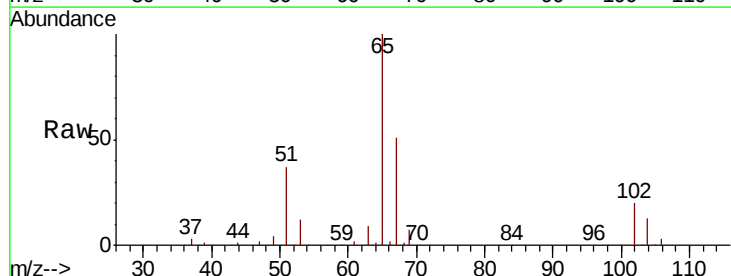


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

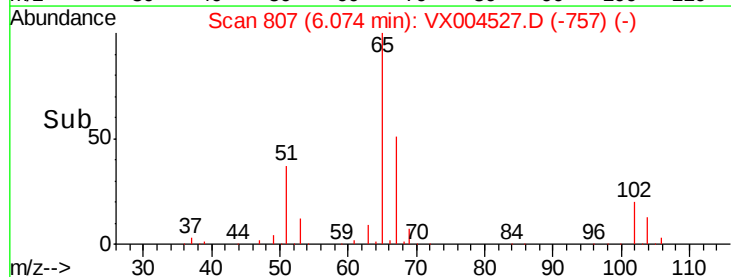
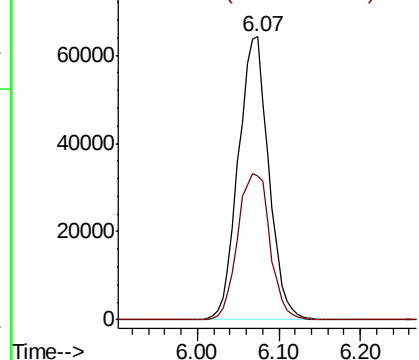


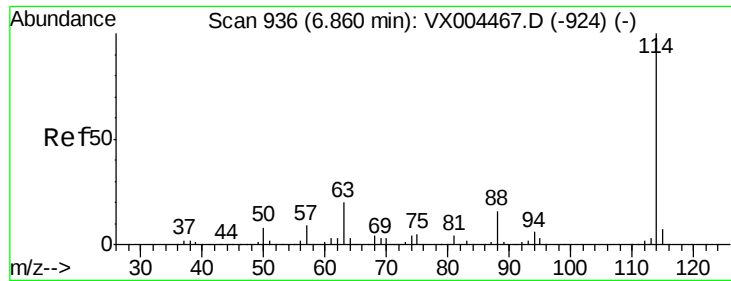
#33
1,2-Dichloroethane-d4
Concen: 51.49 ug/l
RT: 6.07 min Scan# 807
Delta R.T. 0.01 min
Lab File: VX004527.D
Acq: 13 Sep 2018 20:08

Tgt Ion: 65 Resp: 165630
Ion Ratio Lower Upper
65 100
67 55.0 0.0 106.8



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

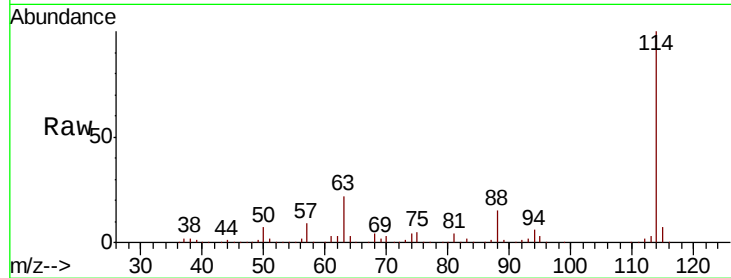




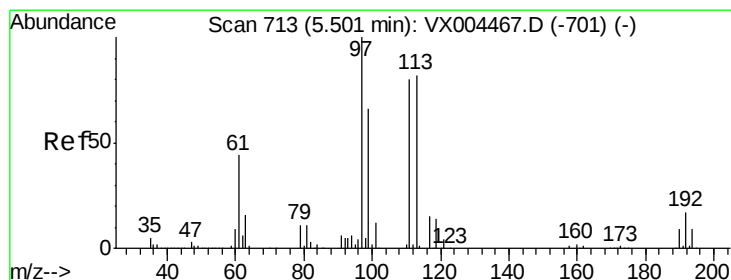
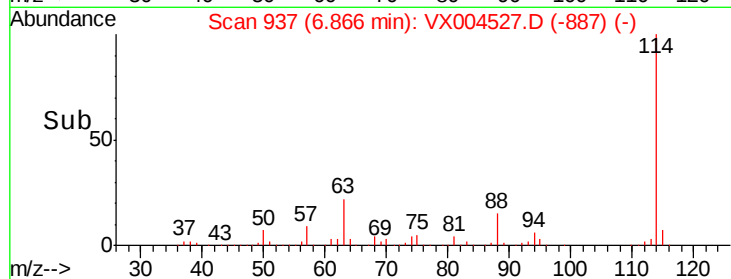
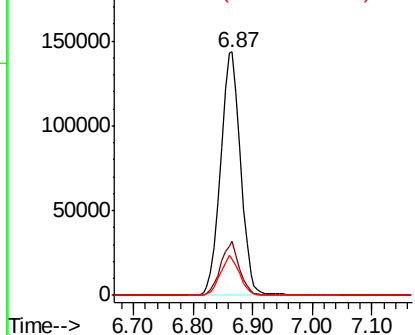
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004527.D
 Acq: 13 Sep 2018 20:08

Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-03-091218

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	39.0
88	15.0	0.0	30.4

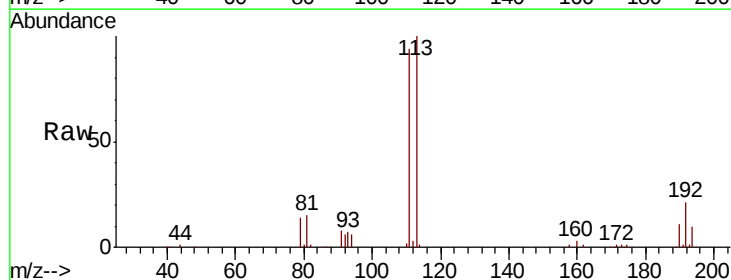


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

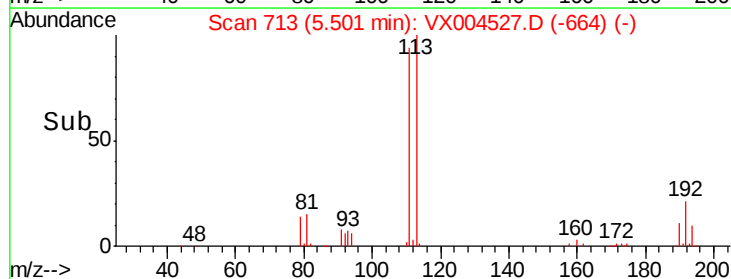
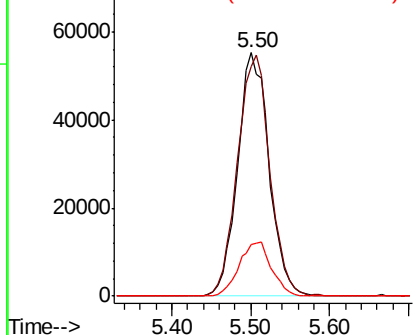


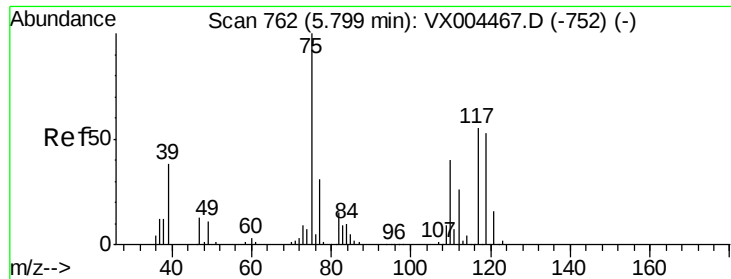
#35
 Dibromofluoromethane
 Concen: 49.83 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004527.D
 Acq: 13 Sep 2018 20:08

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.4	123.6
192	22.8	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

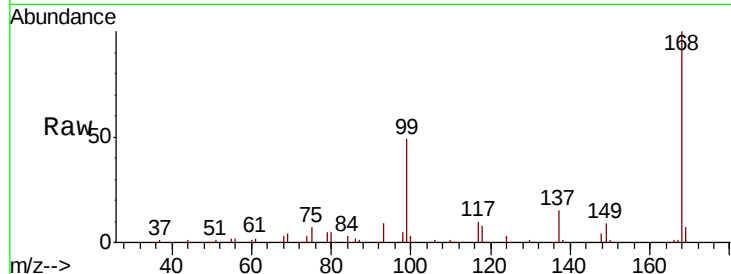




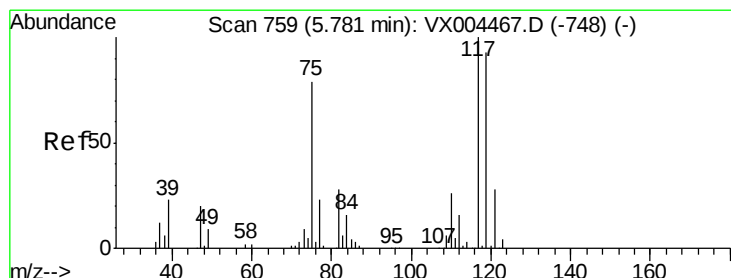
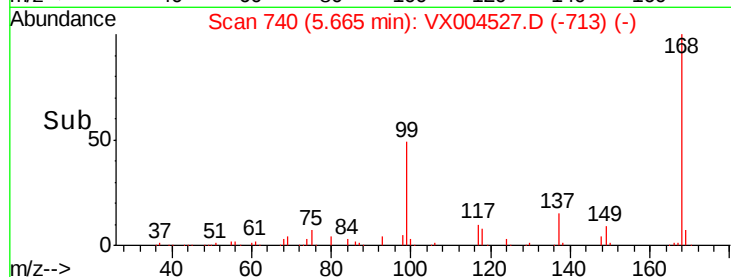
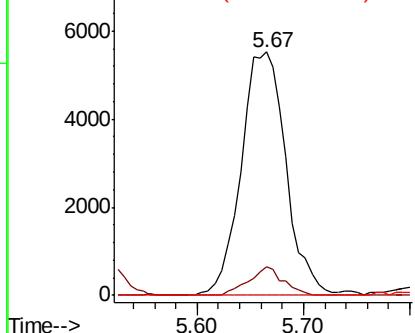
#36
 1,1-Dichloropropene
 Concen: 3.98 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004527.D
 Acq: 13 Sep 2018 20:08

Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-03-091218

Tot Ion: 75 Resp: 16258
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.0 54.0#
 77 0.0 24.6 36.8#

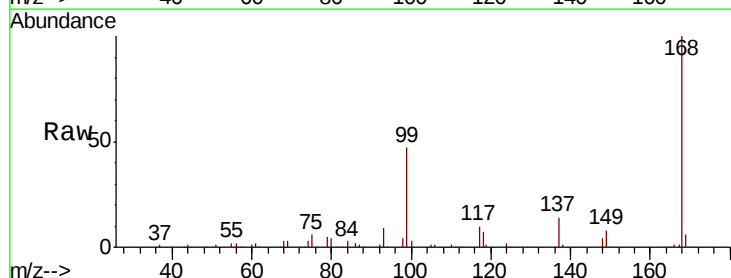


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

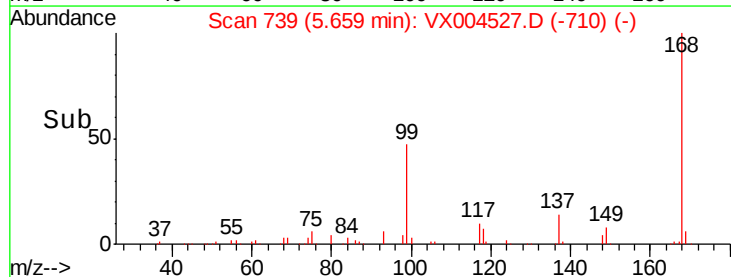
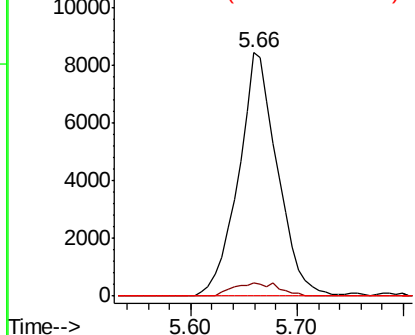


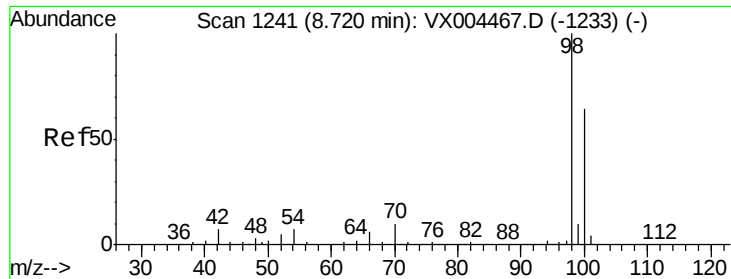
#38
 Carbon Tetrachloride
 Concen: 5.41 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX004527.D
 Acq: 13 Sep 2018 20:08

Tgt Ion: 117 Resp: 21595
 Ion Ratio Lower Upper
 117 100
 119 5.4 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

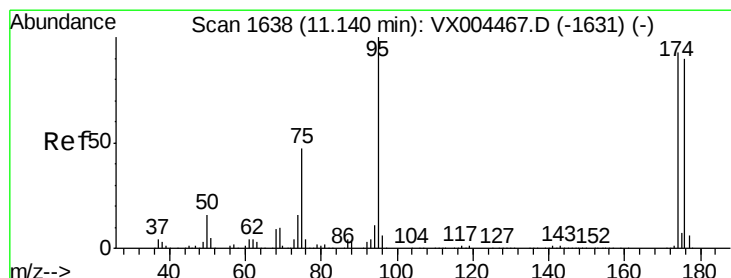
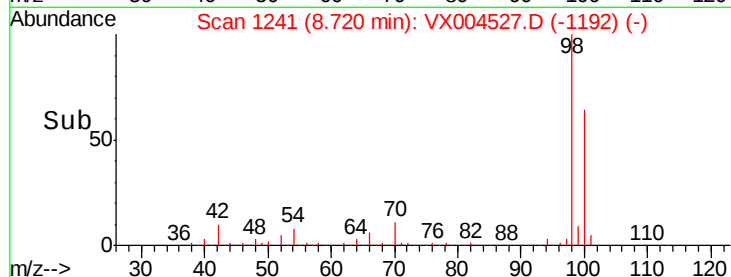
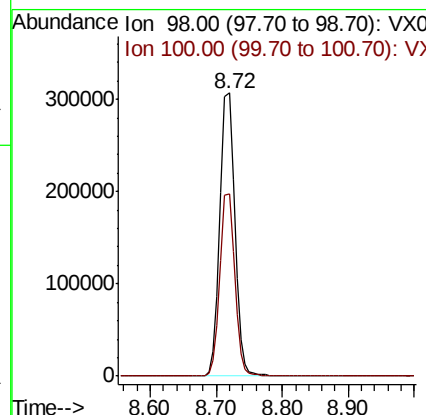
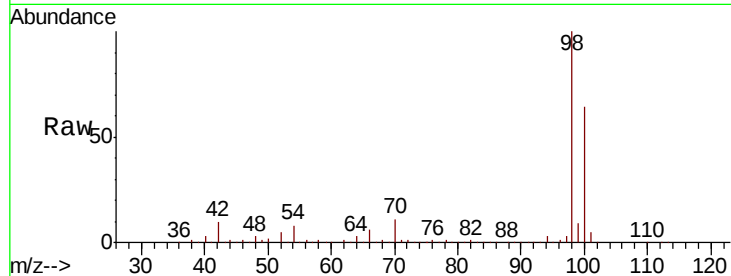




#50
Toluene-d8
Concen: 46.88 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004527.D
Acq: 13 Sep 2018 20:08

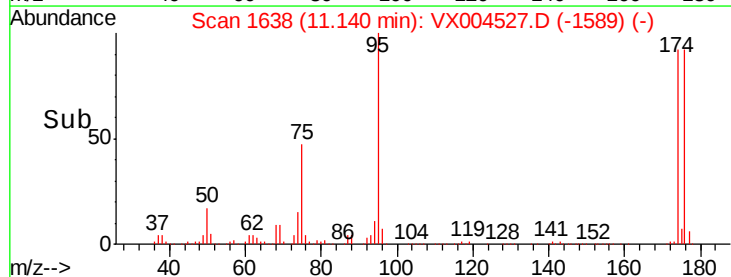
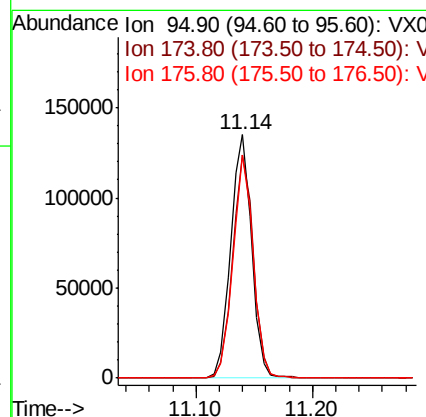
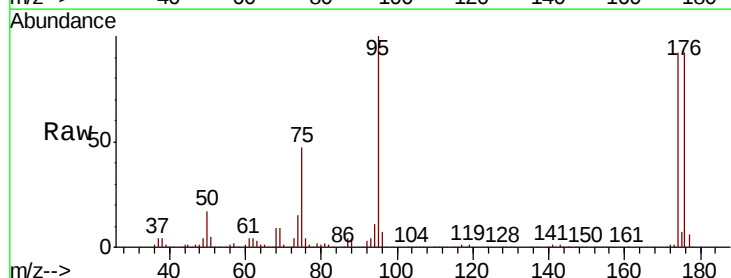
Instrument :
MSVOA_X
ClientSampleId :
PR-MW-03-091218

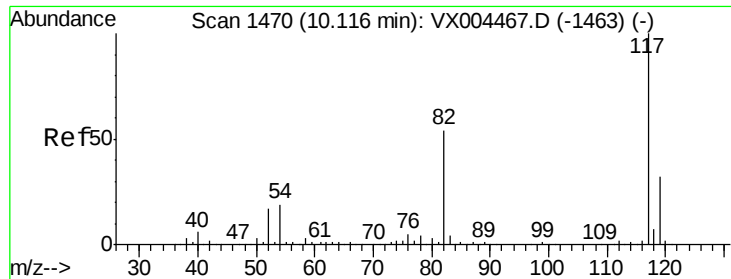
Tot Ion: 98 Resp: 484693
Ion Ratio Lower Upper
98 100
100 63.7 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 45.45 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004527.D
Acq: 13 Sep 2018 20:08

Tgt Ion: 95 Resp: 167715
Ion Ratio Lower Upper
95 100
174 91.8 0.0 185.2
176 89.1 0.0 178.6

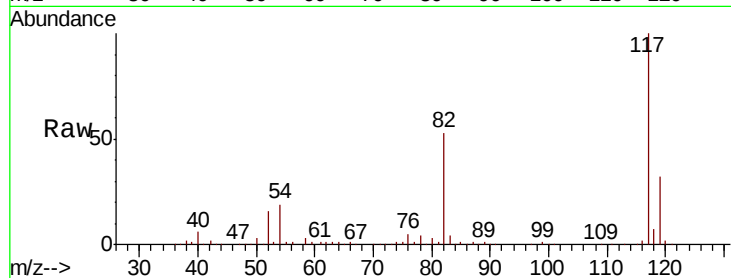




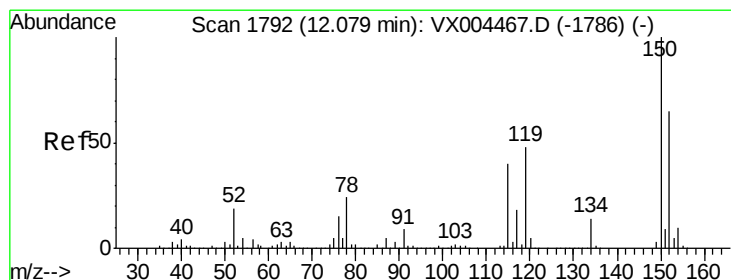
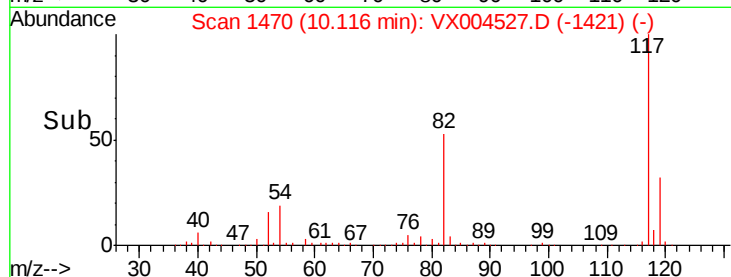
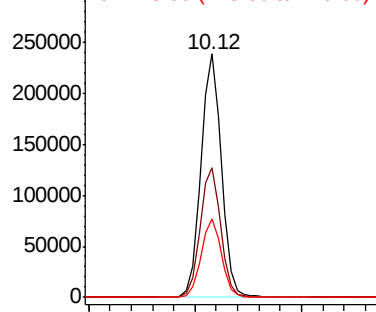
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004527.D
Acq: 13 Sep 2018 20:08

Instrument :
MSVOA_X
ClientSampleId :
PR-MW-03-091218

Tot Ion:117 Resp: 321946
Ion Ratio Lower Upper
117 100
82 53.2 47.8 71.6
119 32.3 29.3 43.9

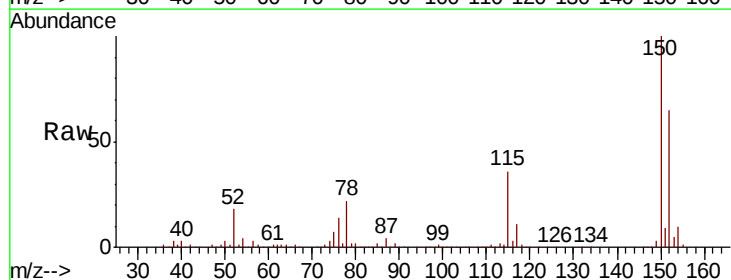


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

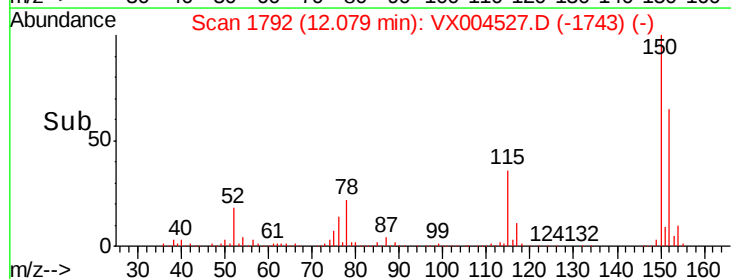
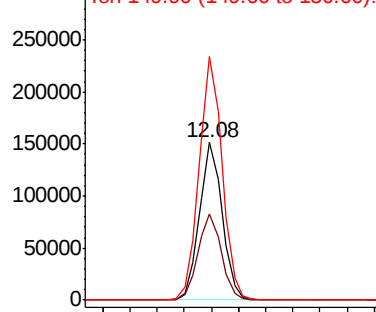


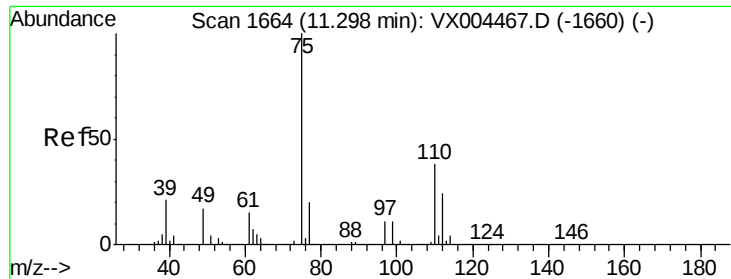
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX004527.D
Acq: 13 Sep 2018 20:08

Tgt Ion:152 Resp: 175779
Ion Ratio Lower Upper
152 100
115 55.7 39.0 117.0
150 156.5 0.0 351.0



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: 22.36 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004527.D

Acq: 13 Sep 2018 20:08

Instrument :

MSVOA_X

ClientSampleId :

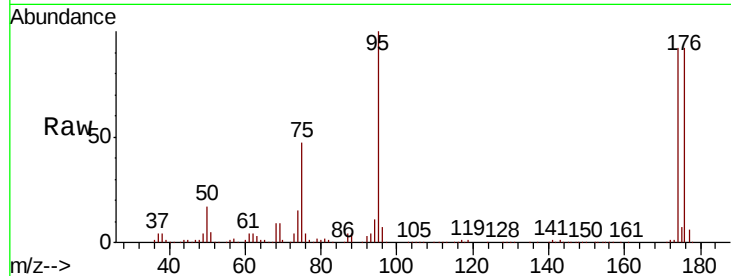
PR-MW-03-091218

Tot Ion: 75 Resp: 79084

Ion Ratio Lower Upper

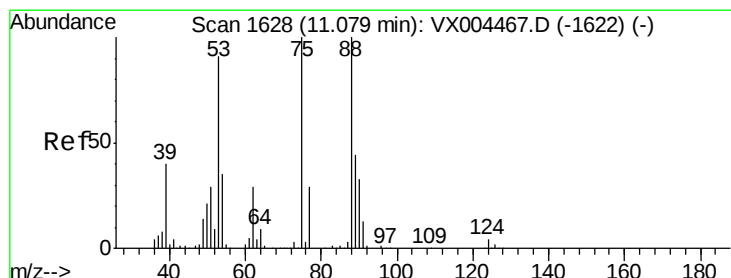
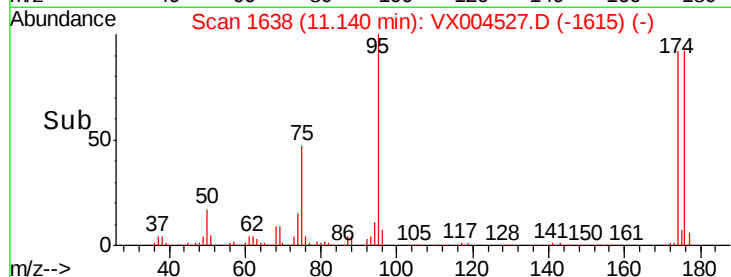
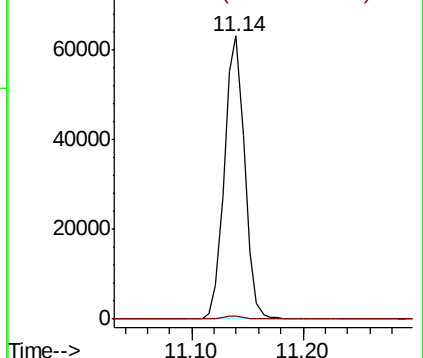
75 100

77 1.2 20.2 60.6#



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: 71.28 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004527.D

Acq: 13 Sep 2018 20:08

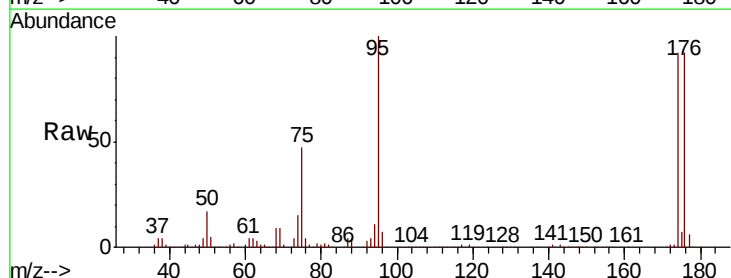
Tgt Ion: 75 Resp: 79084

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

