

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100418\
 Data File : VX004971.D
 Acq On : 03 Oct 2018 16:12
 Operator : JC/MD
 Sample : J5214-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 N48963

Quant Time: Oct 04 01:23:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	247502	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	395656	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	380913	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	209973	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	177451	50.19	ug/l	0.00
Spiked Amount						
			Recovery	=	100.38%	
35) Dibromofluoromethane	5.50	113	153262	45.71	ug/l	0.00
Spiked Amount						
			Recovery	=	91.42%	
50) Toluene-d8	8.72	98	564422	50.63	ug/l	0.00
Spiked Amount						
			Recovery	=	101.26%	
62) 4-Bromofluorobenzene	11.14	95	203353	50.63	ug/l	0.00
Spiked Amount						
			Recovery	=	101.26%	

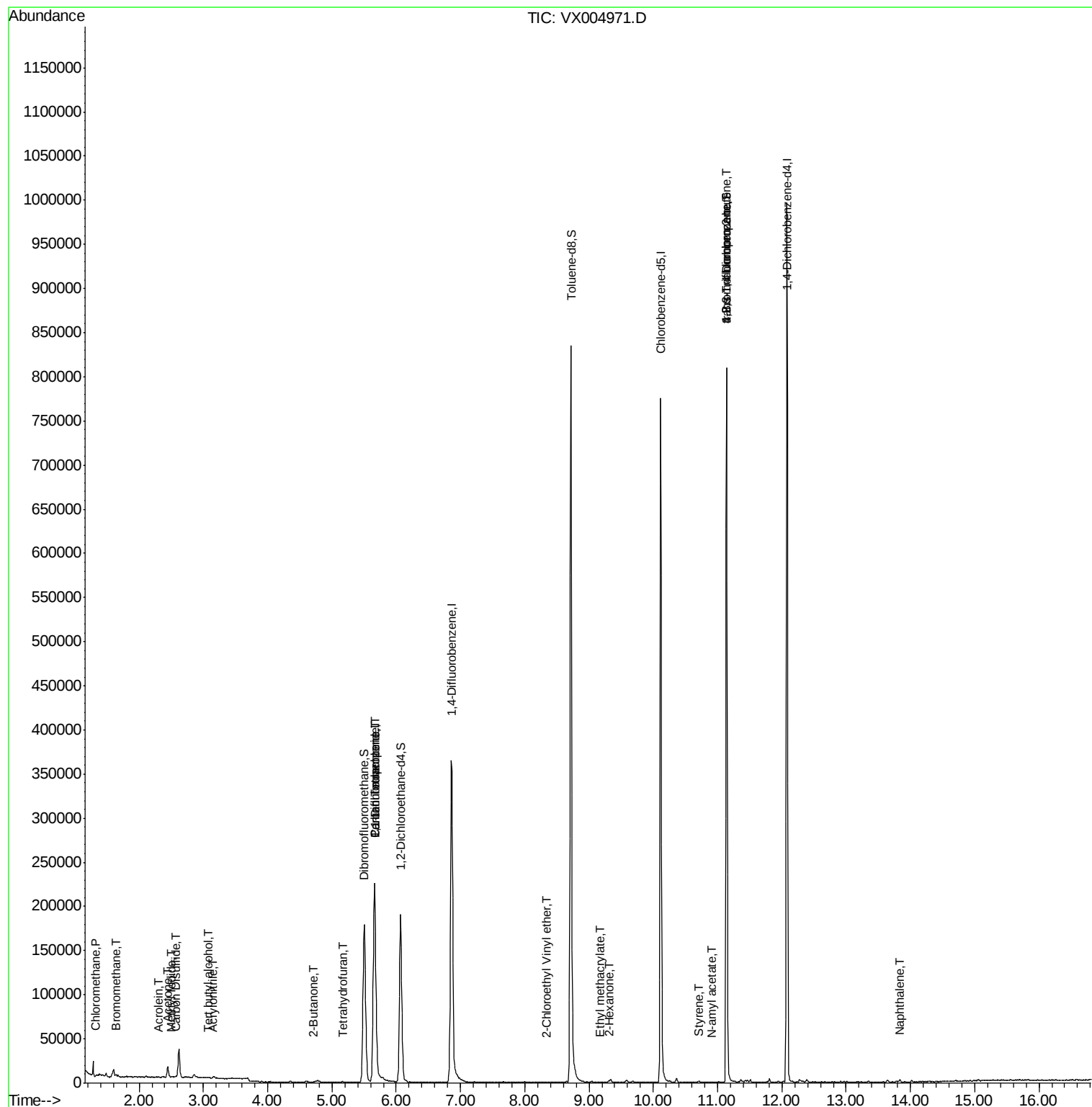
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	955	0.233	ug/l	98
5) Bromomethane	1.65	94	793	0.348	ug/l	93
6) Chloroethane	1.75	64	538	Below Cal	#	45
10) Methyl Iodide	2.51	142	1156	0.319	ug/l #	86
11) Tert butyl alcohol	3.07	59	1361	1.377	ug/l #	61
13) Acrolein	2.30	56	375	0.533	ug/l #	32
15) Acrylonitrile	3.15	53	767	0.352	ug/l #	77
16) Acetone	2.45	43	12393	6.004	ug/l	91
17) Carbon Disulfide	2.57	76	2013	0.250	ug/l #	94
20) Methylene Chloride	2.85	84	1752	Below Cal		92
25) 2-Butanone	4.71	43	1521	0.500	ug/l	90
29) Tetrahydrofuran	5.17	42	641	0.339	ug/l #	64
36) 1,1-Dichloropropene	5.67	75	16141	3.528	ug/l #	46
38) Carbon Tetrachloride	5.66	117	21956	4.565	ug/l #	18
56) Ethyl methacrylate	9.17	69	107	2.880	ug/l #	3
58) 2-Chloroethyl Vinyl ether	8.33	63	25	14.250	ug/l #	49
59) 2-Hexanone	9.31	43	1086	0.236	ug/l	71
70) Styrene	10.71	104	308	2.169	ug/l #	78
74) N-amyl acetate	10.91	43	325	1.791	ug/l #	47
76) 1,2,3-Trichloropropane	11.14	75	98825	20.999	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	733	Below Cal		97
81) trans-1,4-Dichloro-2-buten	11.14	75	98825	56.982	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	1624	Below Cal		99
95) Naphthalene	13.83	128	1950	0.830	ug/l	98

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

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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: VX004971.D

Acq: 03 Oct 2018 16:12

Instrument :

MSVOA_X

ClientSampleId :

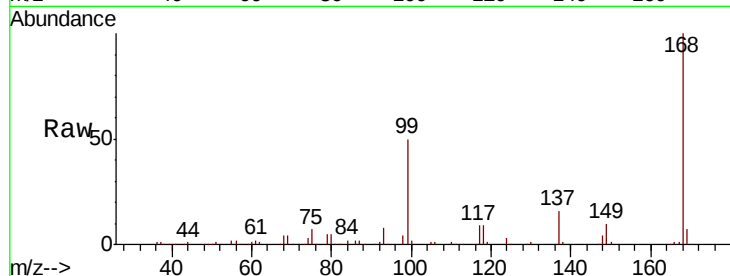
N48963

Tot Ion:168 Resp: 247502

Ion Ratio Lower Upper

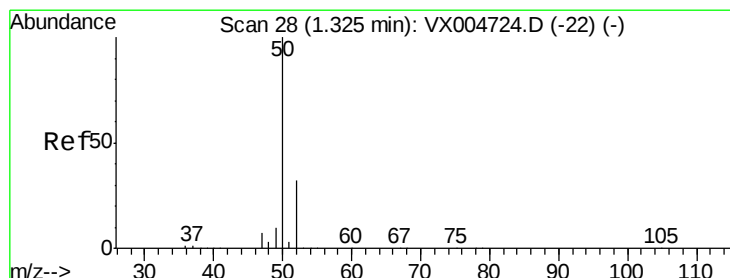
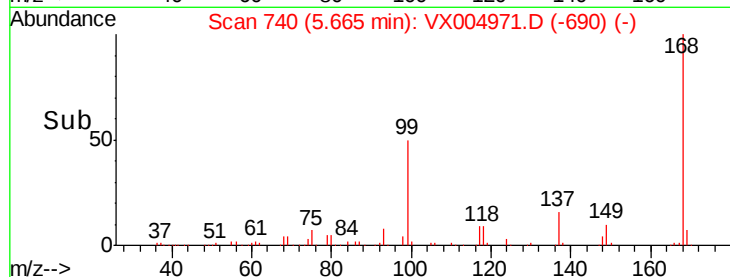
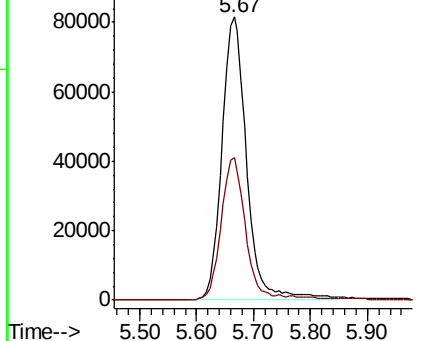
168 100

99 50.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.233 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004971.D

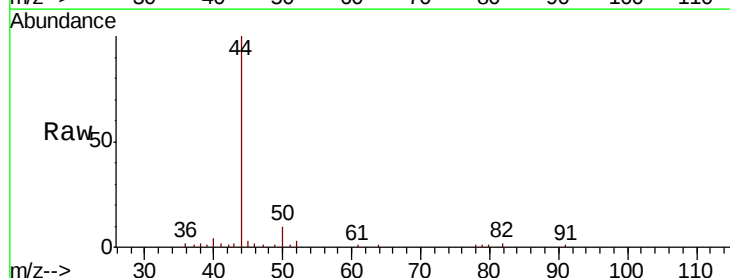
Acq: 03 Oct 2018 16:12

Tgt Ion: 50 Resp: 955

Ion Ratio Lower Upper

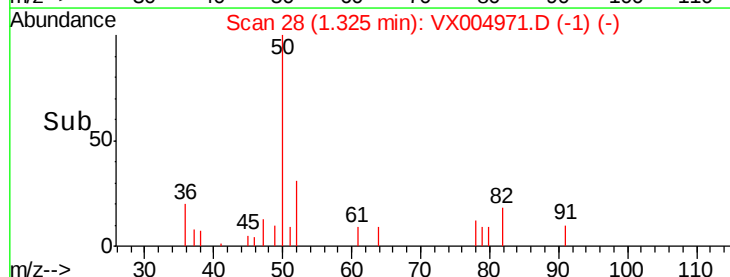
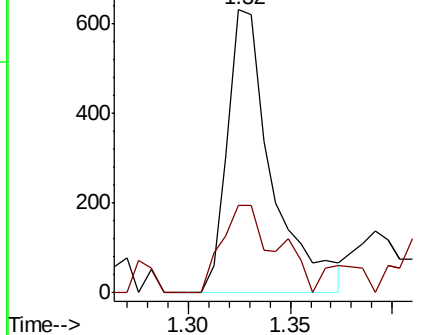
50 100

52 31.0 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.348 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

Instrument :

MSVOA_X

ClientSampled :

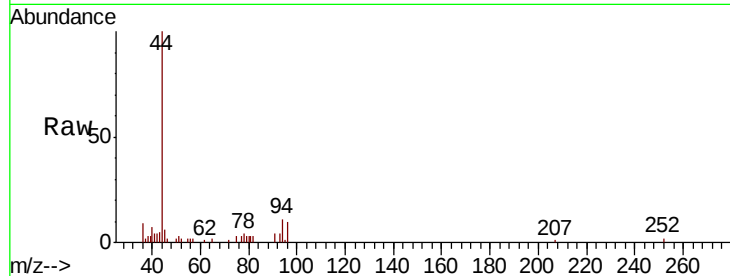
N48963

Tot Ion: 94 Resp: 793

Ion Ratio Lower Upper

94 100

96 92.3 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

300

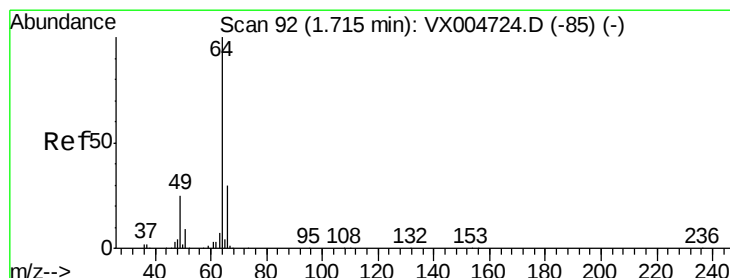
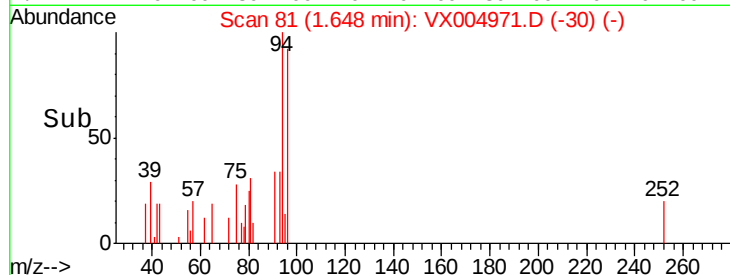
200

100

0

1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 98

Delta R.T. 0.04 min

Lab File: VX004971.D

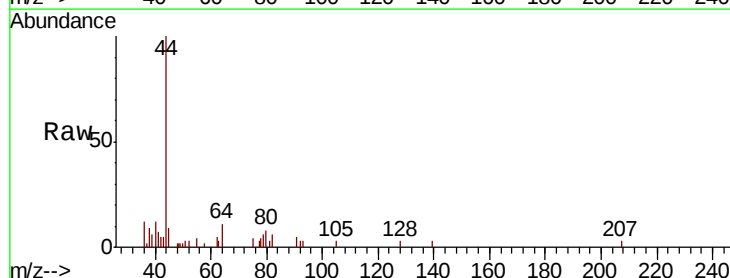
Acq: 03 Oct 2018 16:12

Tgt Ion: 64 Resp: 538

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

400

300

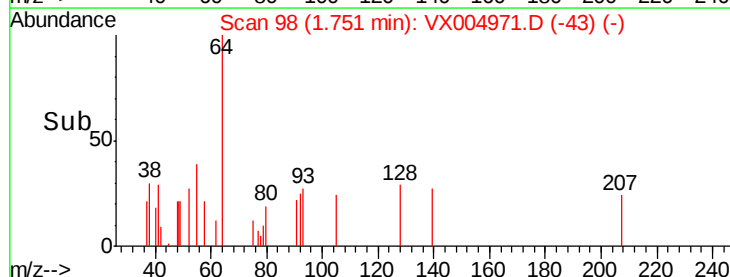
200

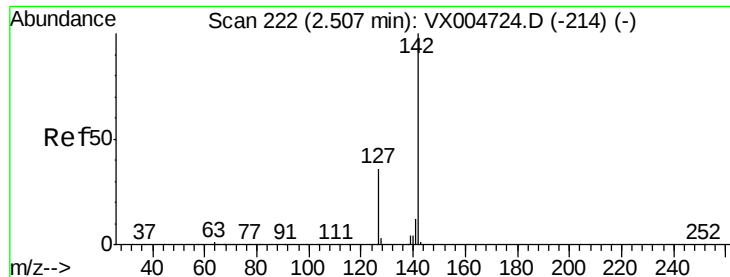
100

0

1.65 1.70 1.75

Time-->

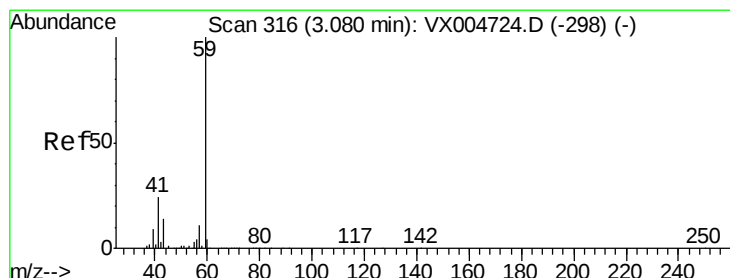
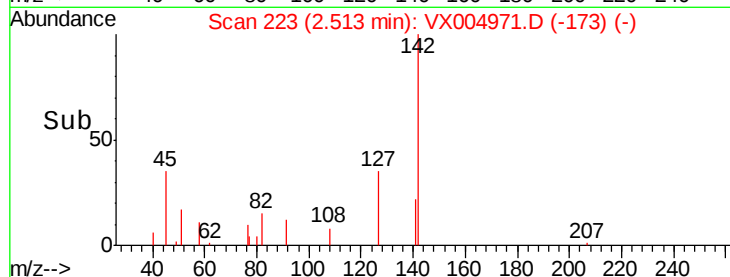
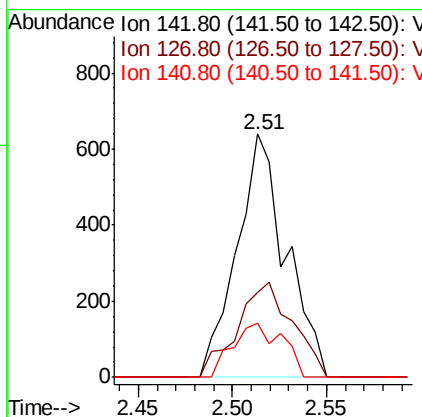
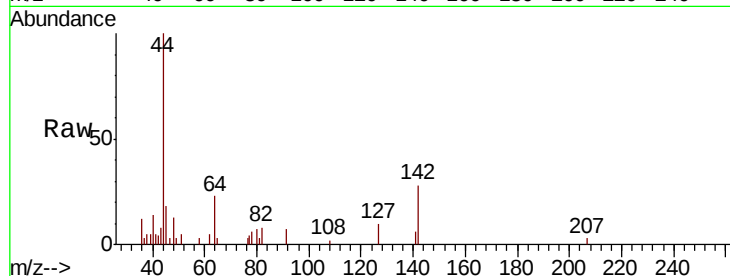




#10
Methvl Iodide
Concen: 0.319 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004971.D
Acq: 03 Oct 2018 16:12

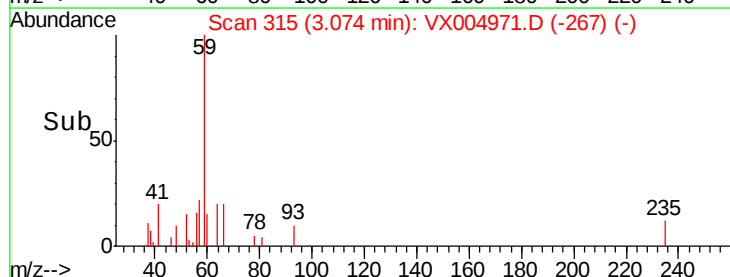
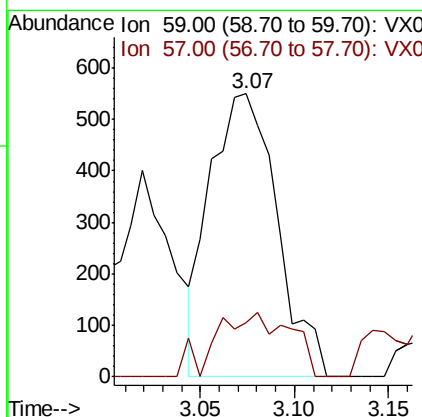
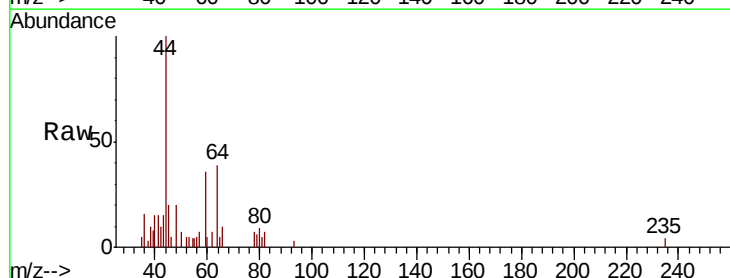
Instrument :
MSVOA_X
ClientSampleId :
N48963

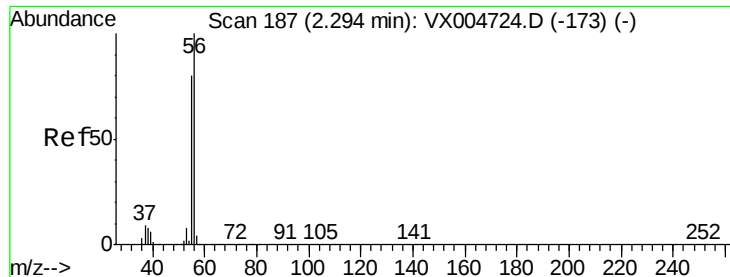
Tot Ion	Ratio	Lower	Upper
142	100		
127	43.9	30.1	45.1
141	22.2	10.1	15.1



#11
Tert butyl alcohol
Concen: 1.377 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004971.D
Acq: 03 Oct 2018 16:12

Tgt Ion	Ratio	Lower	Upper
59	100		
57	25.3	8.6	12.8





#13

Acrolein

Concen: 0.533 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

Instrument :

MSVOA_X

ClientSampled :

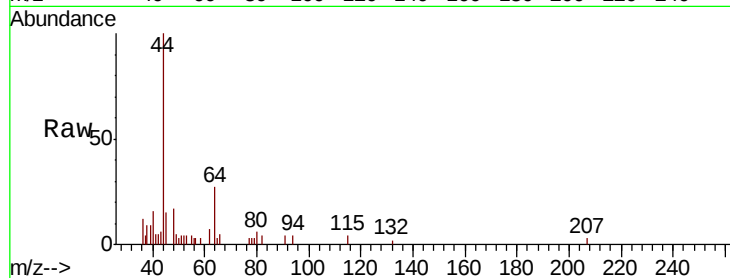
N48963

Tot Ion: 56 Resp: 375

Ion Ratio Lower Upper

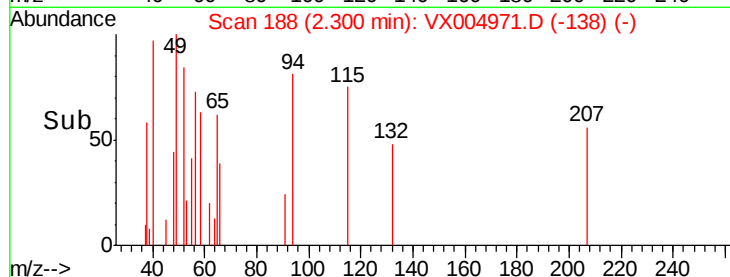
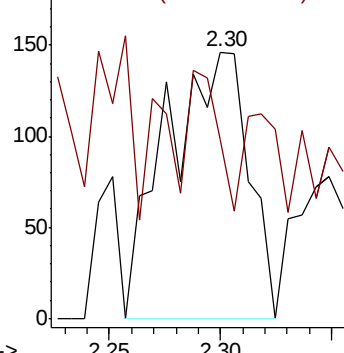
56 100

55 19.2 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.352 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.00 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

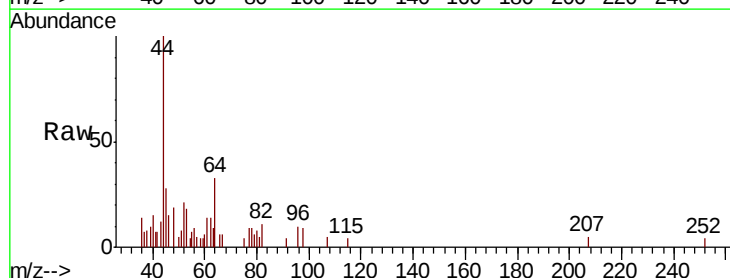
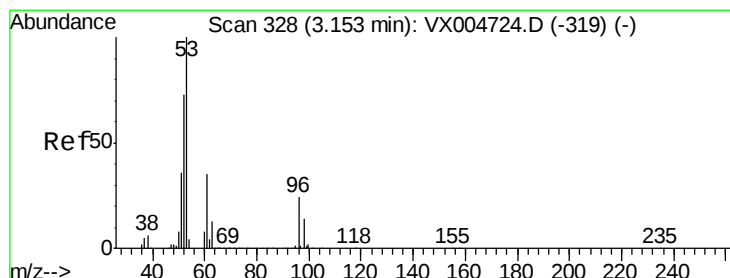
Tgt Ion: 53 Resp: 767

Ion Ratio Lower Upper

53 100

52 98.2 63.0 94.4#

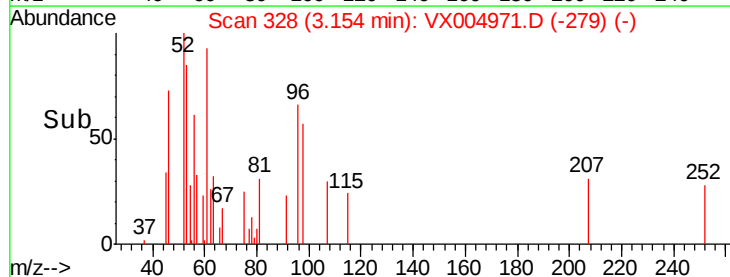
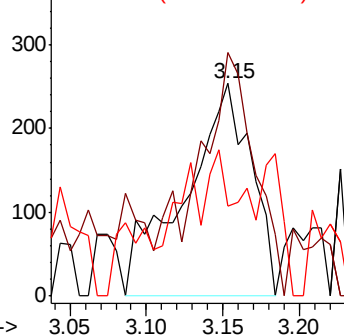
51 22.2 28.6 42.8#

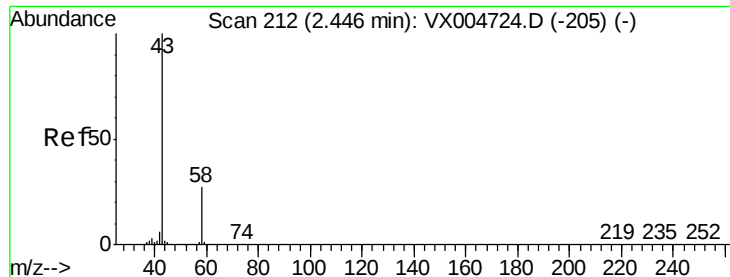


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 6.004 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

Instrument :

MSVOA_X

ClientSampleId :

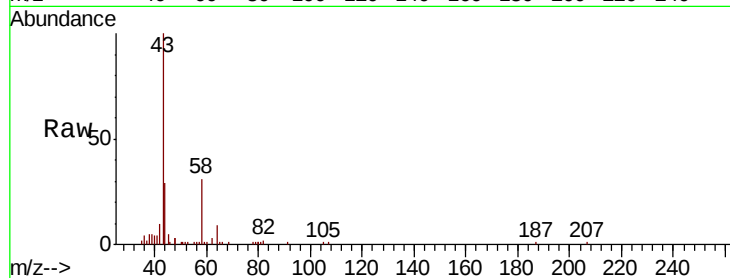
N48963

Tot Ion: 43 Resp: 12393

Ion Ratio Lower Upper

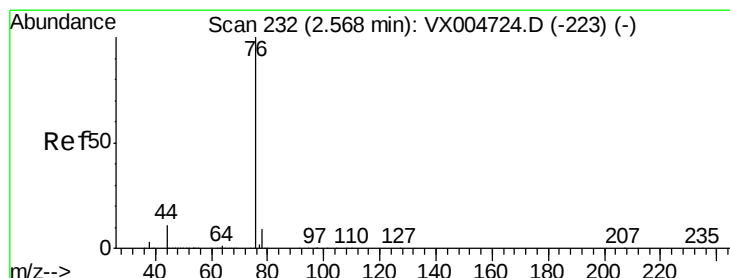
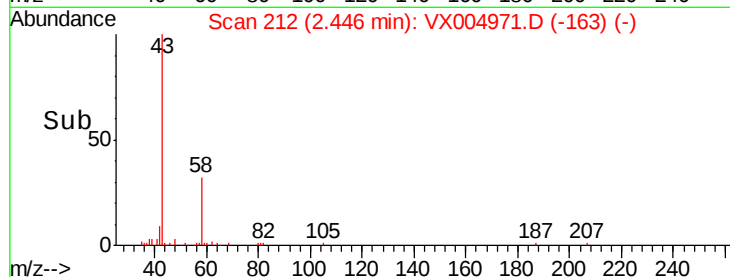
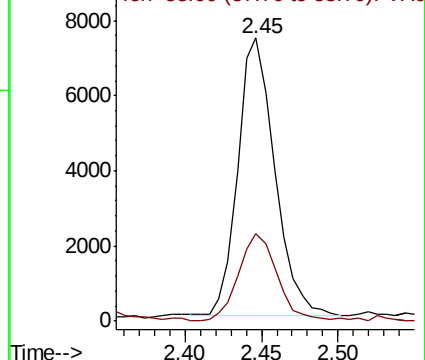
43 100

58 31.7 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.250 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004971.D

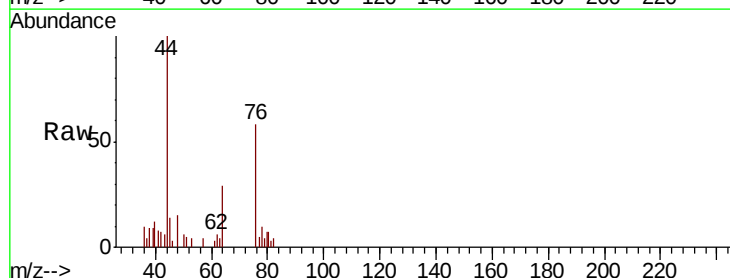
Acq: 03 Oct 2018 16:12

Tgt Ion: 76 Resp: 2013

Ion Ratio Lower Upper

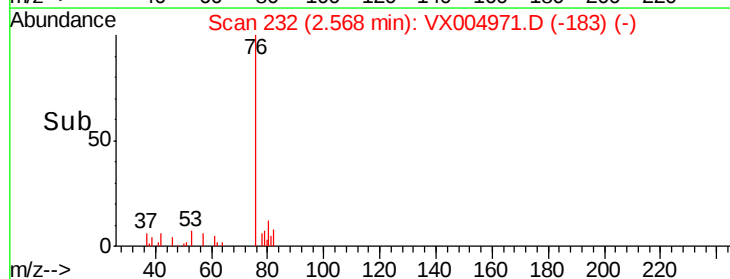
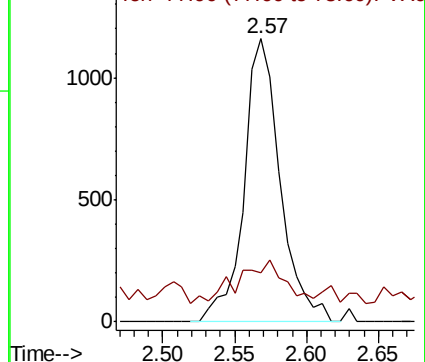
76 100

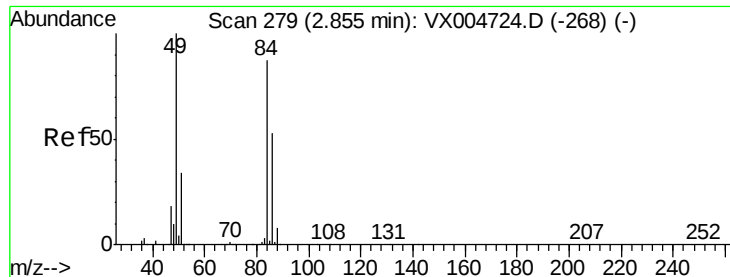
78 11.1 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

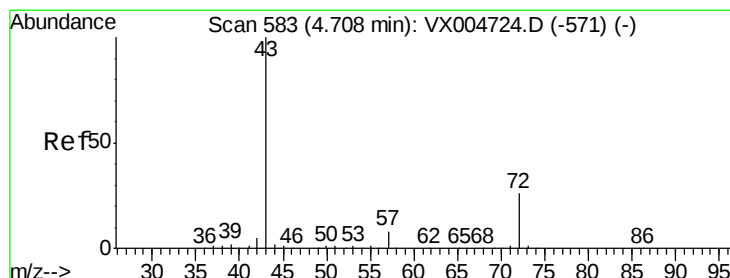
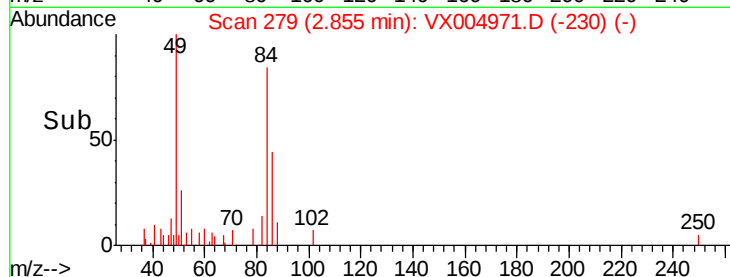
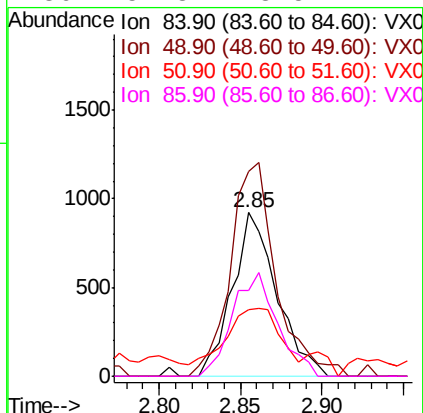
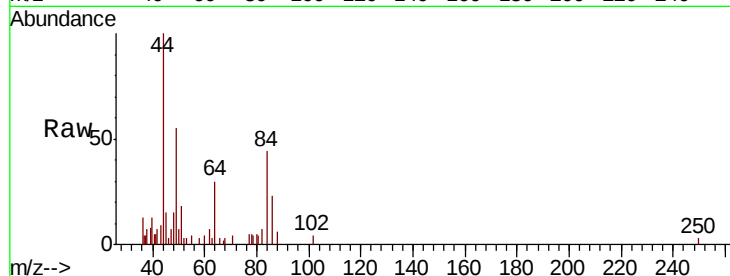




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX004971.D
Acq: 03 Oct 2018 16:12

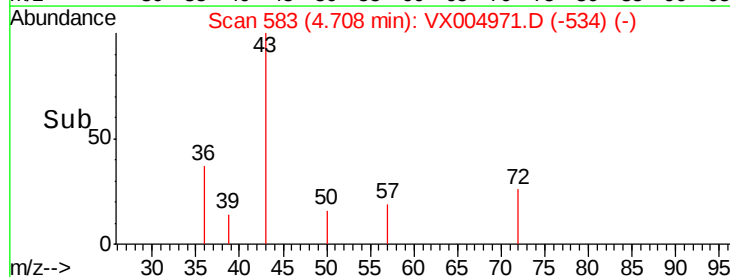
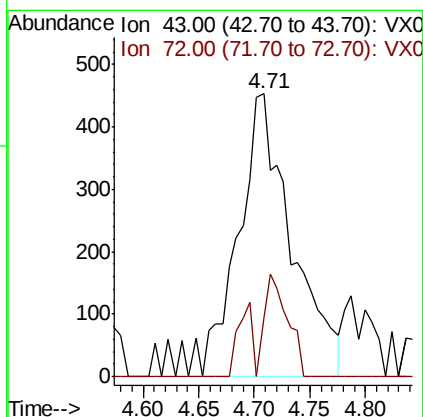
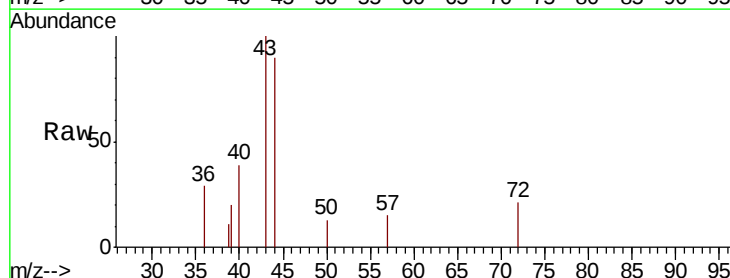
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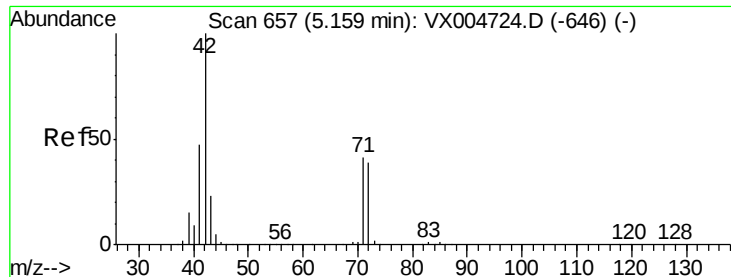
Tot Ion:	84	Resp:	1752
Ion	Ratio	Lower	Upper
84	100		
49	125.1	92.3	138.5
51	40.7	31.8	47.6
86	52.8	48.5	72.7



#25
2-Butanone
Concen: 0.500 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.00 min
Lab File: VX004971.D
Acq: 03 Oct 2018 16:12

Tgt Ion:	43	Resp:	1521
Ion	Ratio	Lower	Upper
43	100		
72	21.0	20.8	31.2





#29

Tetrahydrofuran

Concen: 0.339 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

Instrument :

MSVOA_X

ClientSampleId :

N48963

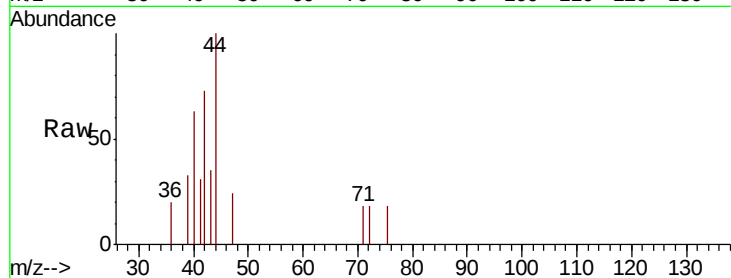
Tot Ion: 42 Resp: 641

Ion Ratio Lower Upper

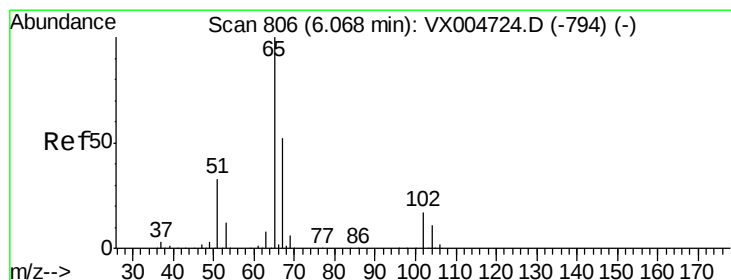
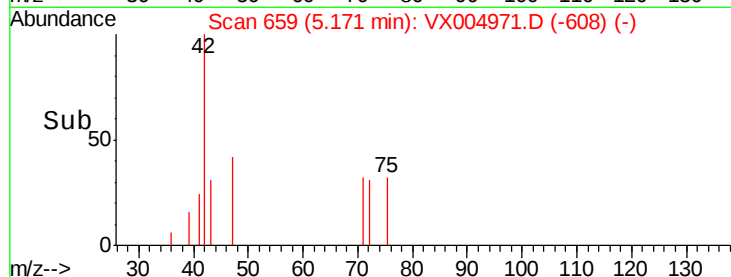
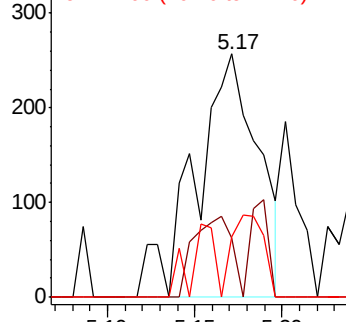
42 100

72 20.4 33.7 50.5#

71 17.2 32.2 48.4#



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: 50.190 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004971.D

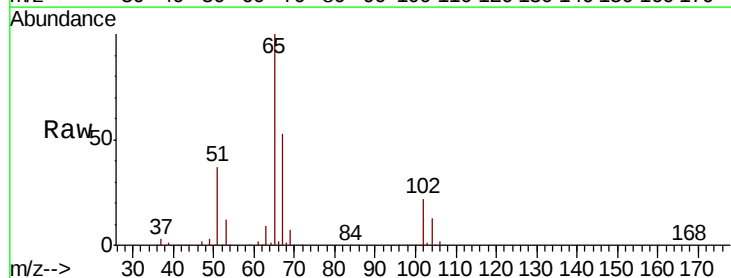
Acq: 03 Oct 2018 16:12

Tgt Ion: 65 Resp: 177451

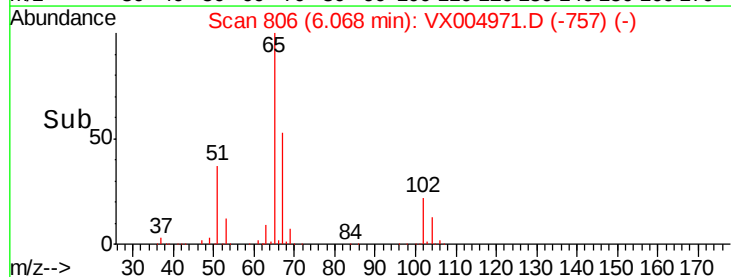
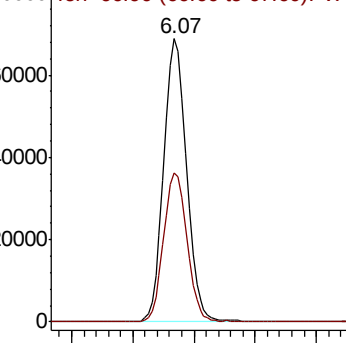
Ion Ratio Lower Upper

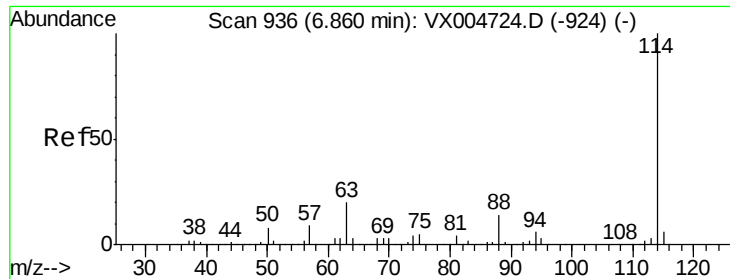
65 100

67 54.1 0.0 107.4



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

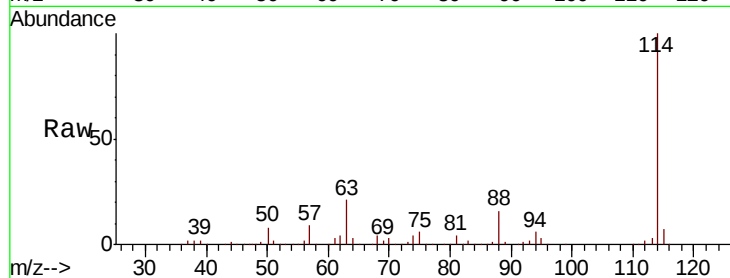




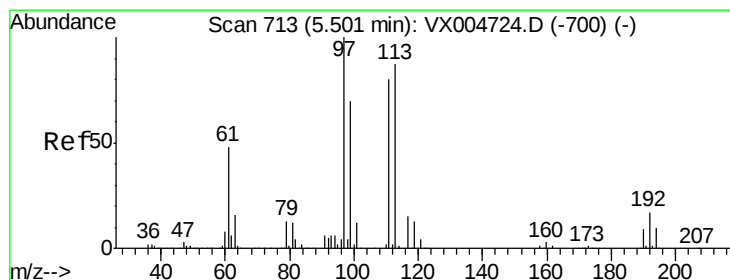
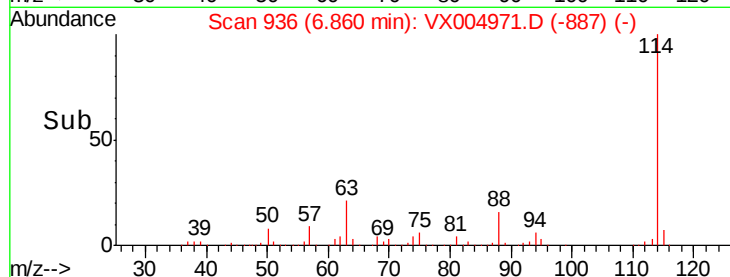
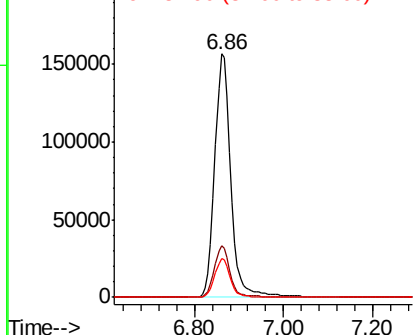
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004971.D
 Acq: 03 Oct 2018 16:12

Instrument :
 MSVOA_X
 ClientSampleId :
 N48963

Tot Ion:114 Resp: 395656
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 39.8
 88 15.9 0.0 27.0

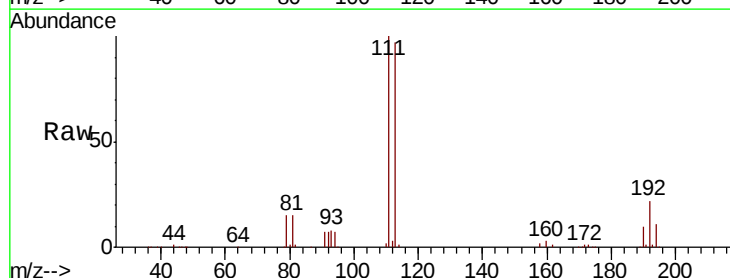


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

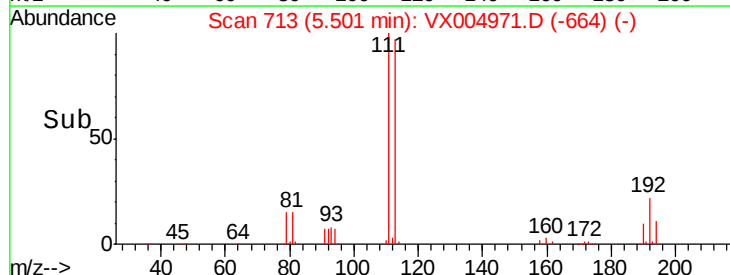
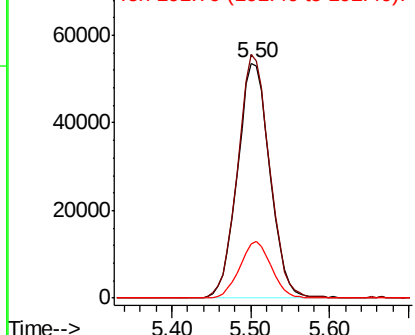


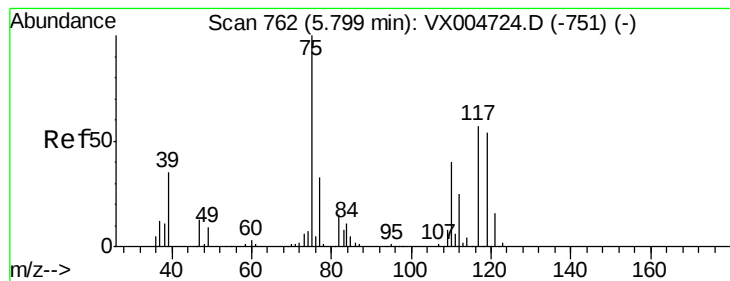
#35
 Dibromofluoromethane
 Concen: 45.706 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004971.D
 Acq: 03 Oct 2018 16:12

Tgt Ion:113 Resp: 153262
 Ion Ratio Lower Upper
 113 100
 111 102.0 77.0 115.4
 192 23.5 17.0 25.6



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: 3.528 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

Instrument :

MSVOA_X

ClientSampled :

N48963

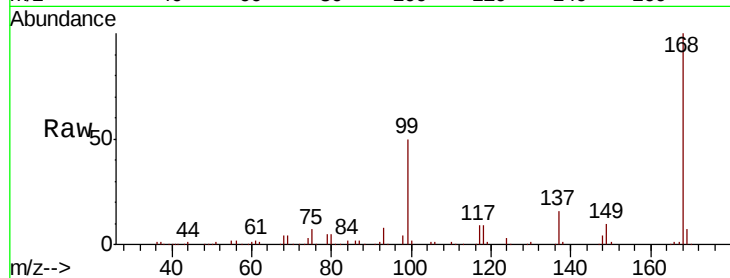
Tot Ion: 75 Resp: 16141

Ion Ratio Lower Upper

75 100

110 9.2 20.0 59.9#

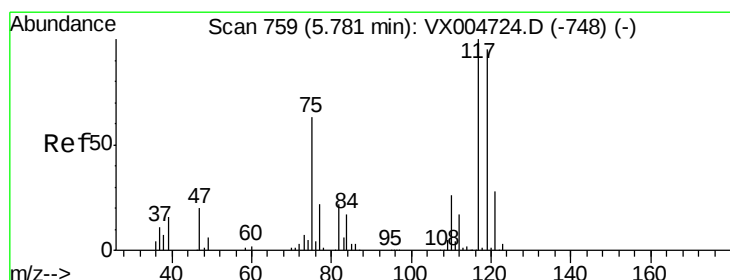
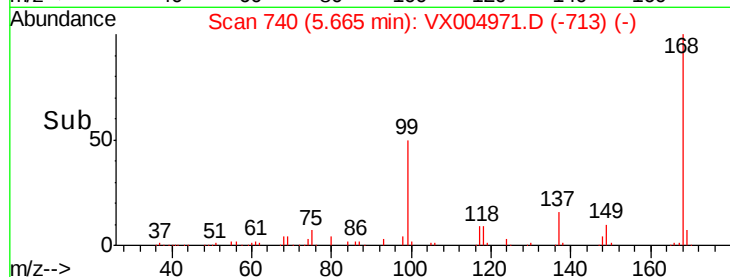
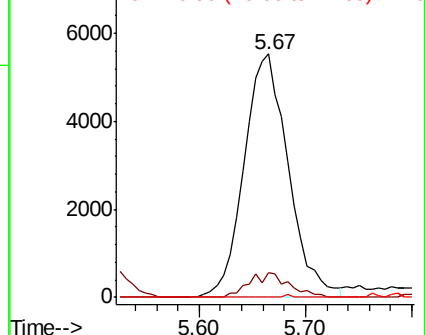
77 0.2 27.1 40.7#



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: 4.565 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

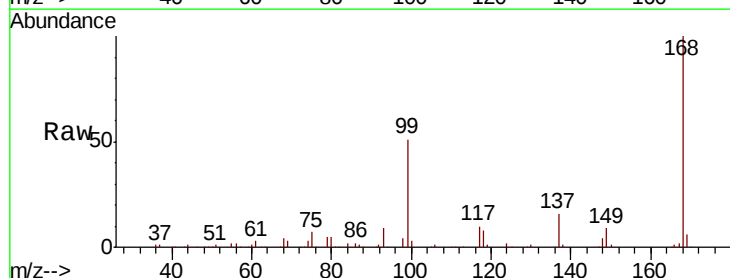
Tgt Ion: 117 Resp: 21956

Ion Ratio Lower Upper

117 100

119 6.7 75.2 112.8#

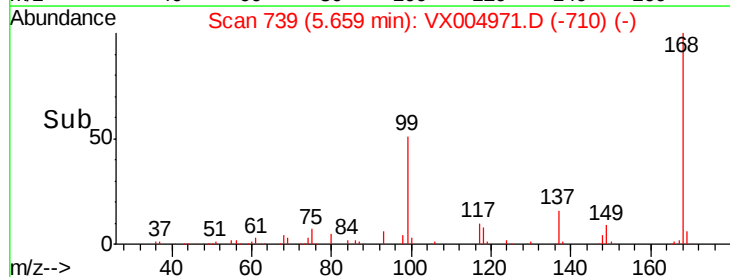
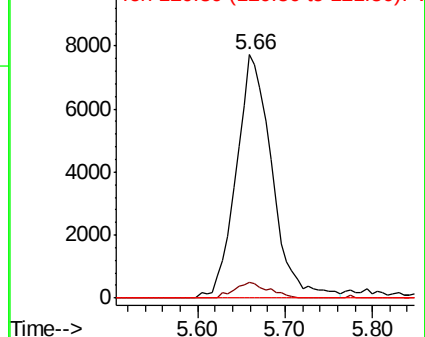
121 0.0 22.5 33.7#

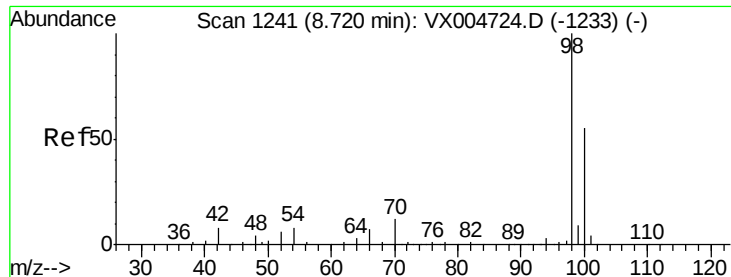


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 50.631 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

Instrument :

MSVOA_X

ClientSampled :

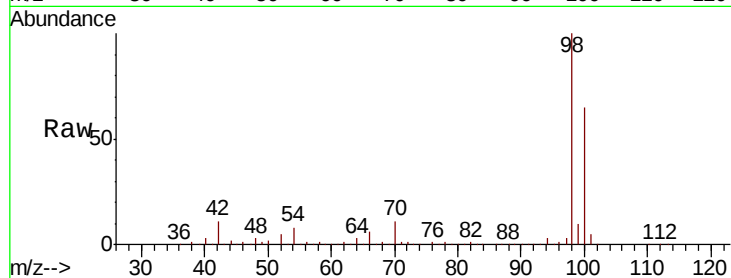
N48963

Tot Ion: 98 Resp: 564422

Ion Ratio Lower Upper

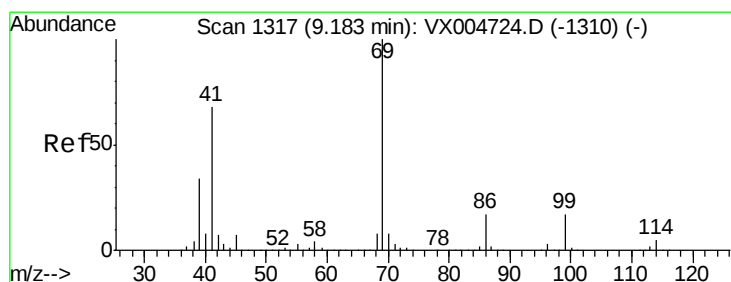
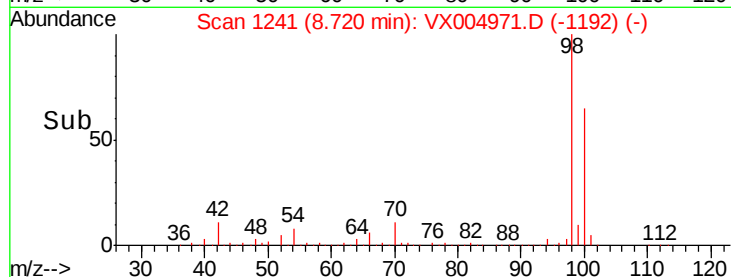
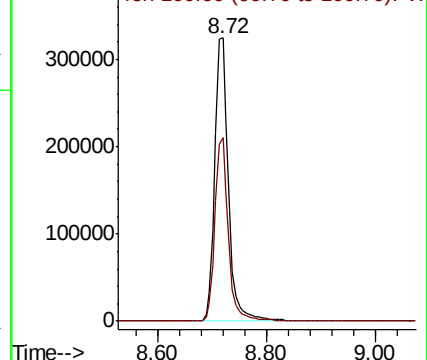
98 100

100 63.7 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#56

Ethyl methacrylate

Concen: 2.880 ug/l

RT: 9.17 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

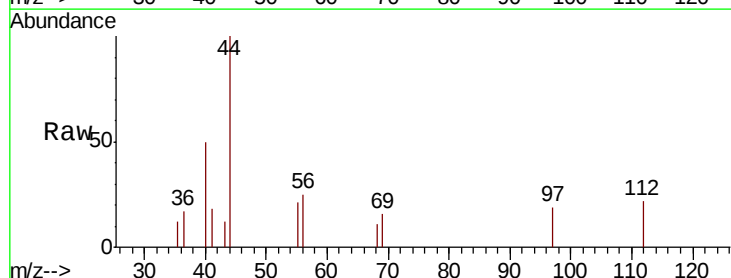
Tgt Ion: 69 Resp: 107

Ion Ratio Lower Upper

69 100

41 116.8 56.9 85.3#

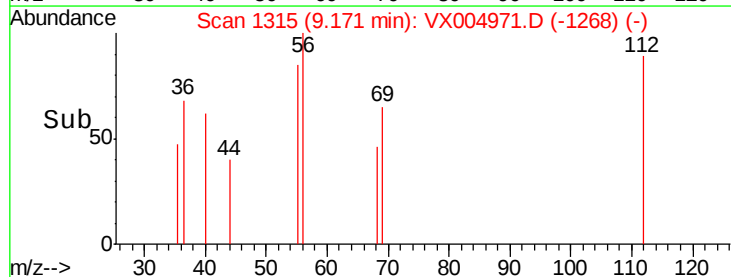
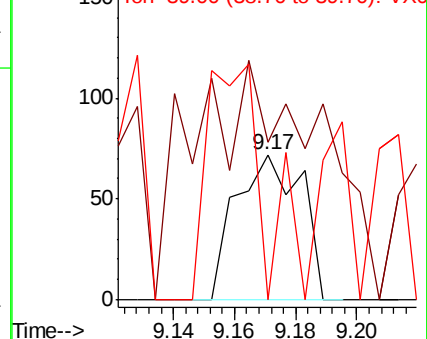
39 140.2 28.4 42.6#

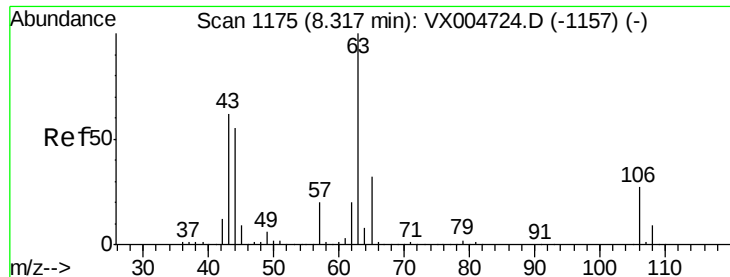


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

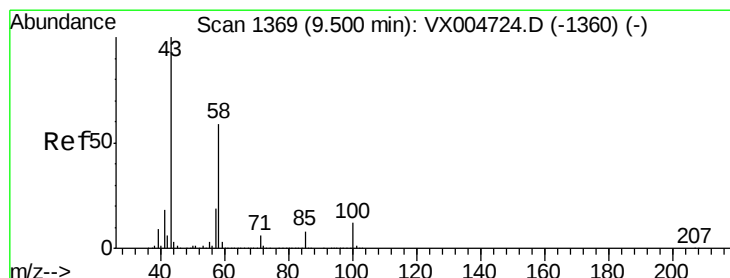
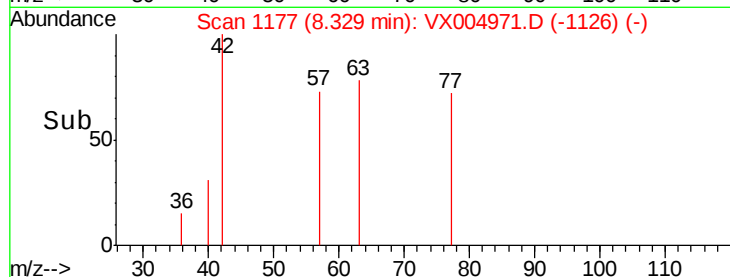
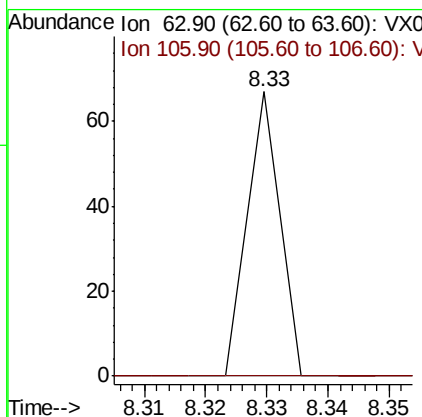
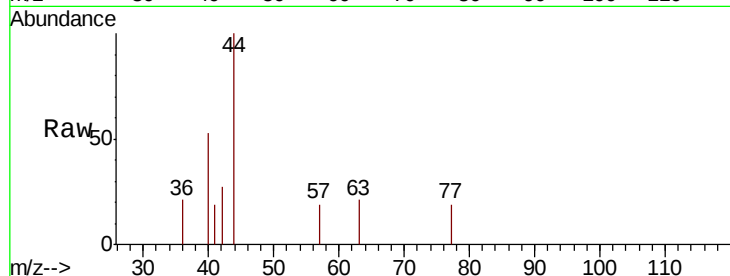




#58
2-Chloroethyl Vinyl ether
Concen: 14.250 ug/l
RT: 8.33 min Scan# 1177
Delta R.T. 0.01 min
Lab File: VX004971.D
Acq: 03 Oct 2018 16:12

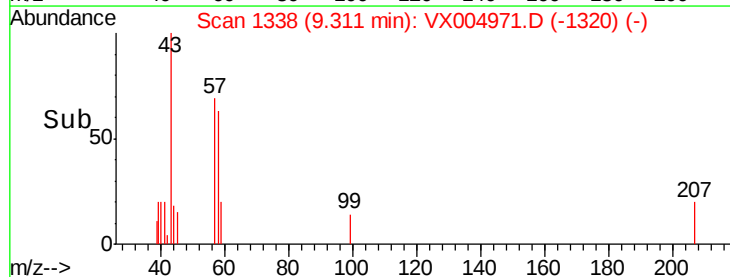
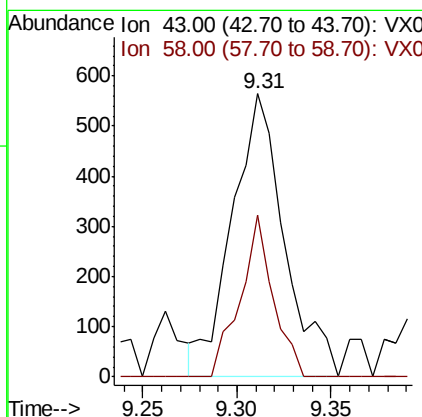
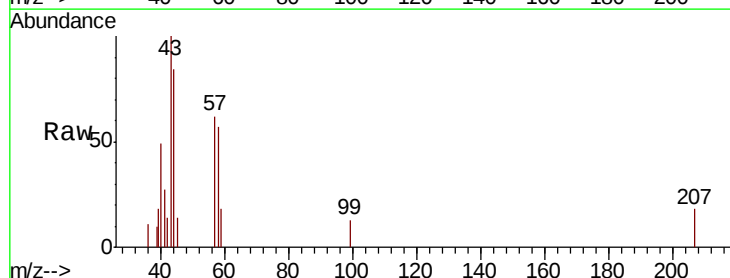
Instrument :
MSVOA_X
ClientSampleId :
N48963

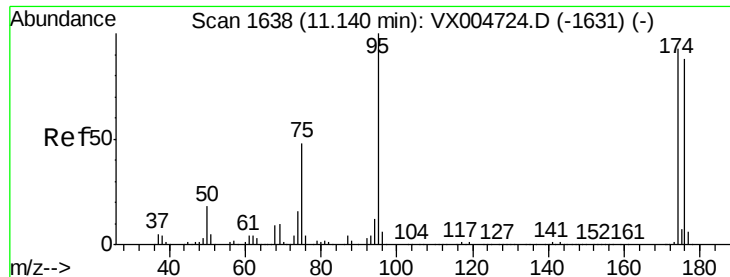
Tot Ion: 63 Resp: 25
Ion Ratio Lower Upper
63 100
106 0.0 21.0 31.6#



#59
2-Hexanone
Concen: 0.236 ug/l
RT: 9.31 min Scan# 1338
Delta R.T. -0.19 min
Lab File: VX004971.D
Acq: 03 Oct 2018 16:12

Tgt Ion: 43 Resp: 1086
Ion Ratio Lower Upper
43 100
58 35.8 28.4 85.3

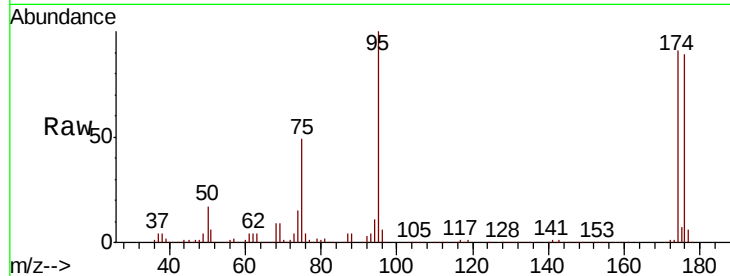




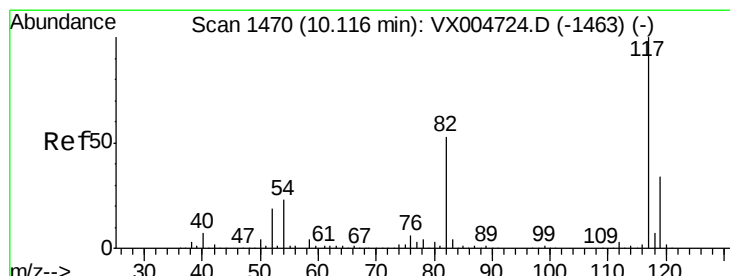
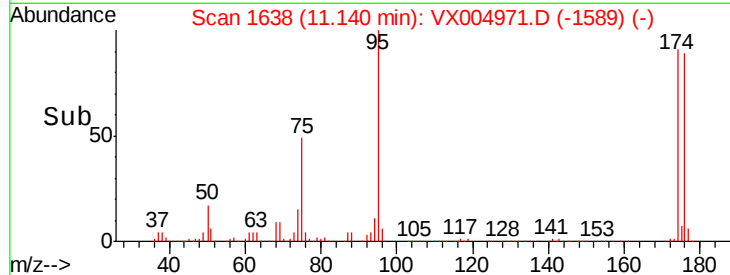
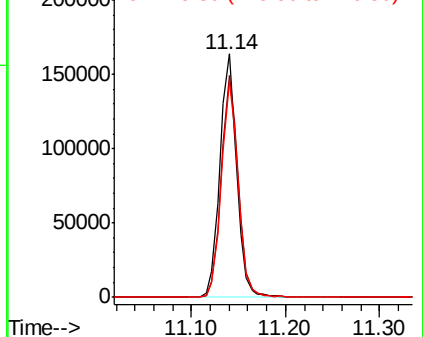
#62
4-Bromofluorobenzene
Concen: 50.635 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX004971.D
Acq: 03 Oct 2018 16:12

Instrument :
MSVOA_X
ClientSampled :
N48963

Tot Ion: 95 Resp: 203353
Ion Ratio Lower Upper
95 100
174 92.2 0.0 185.0
176 88.2 0.0 180.2

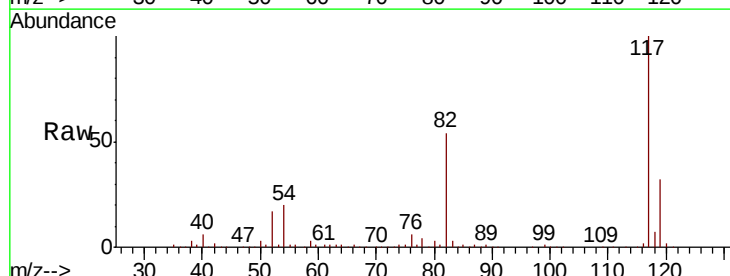


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

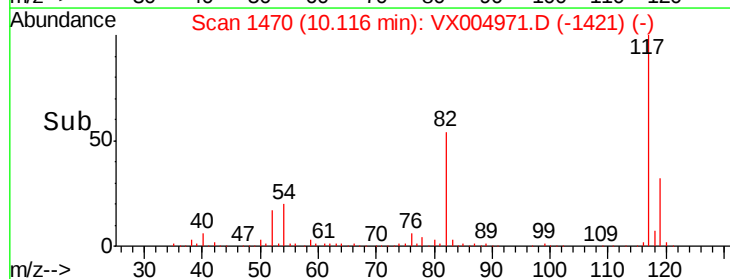
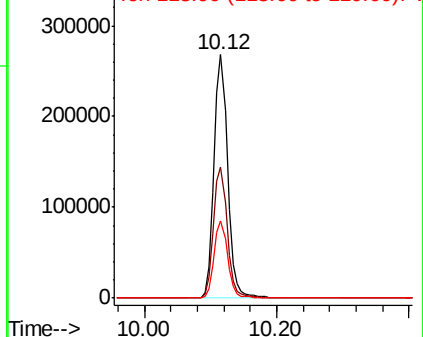


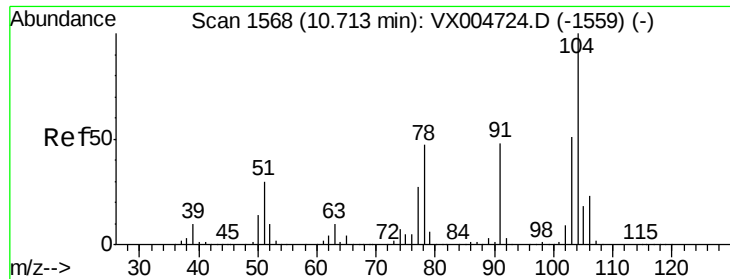
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004971.D
Acq: 03 Oct 2018 16:12

Tgt Ion: 117 Resp: 380913
Ion Ratio Lower Upper
117 100
82 53.6 42.2 63.4
119 31.9 27.4 41.0



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





#70

Stvrene

Concen: 2.169 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

Instrument :

MSVOA_X

ClientSampleId :

N48963

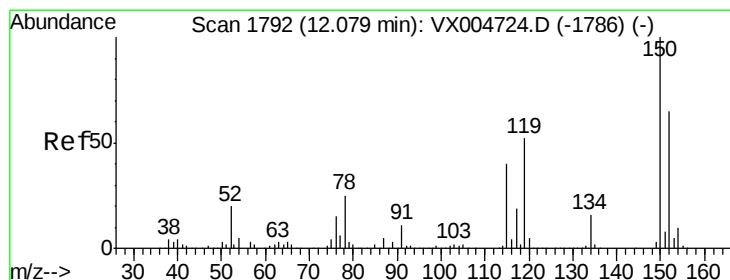
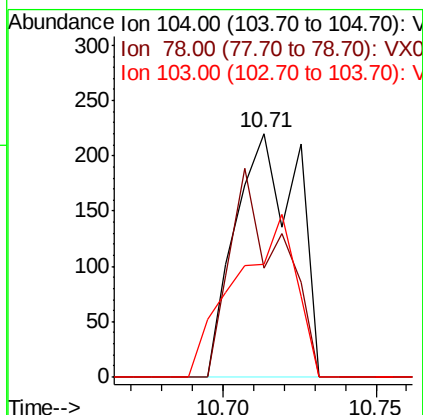
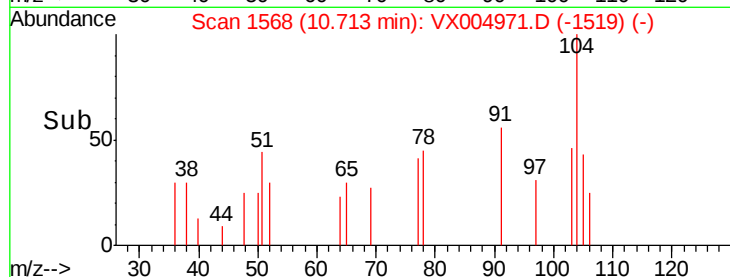
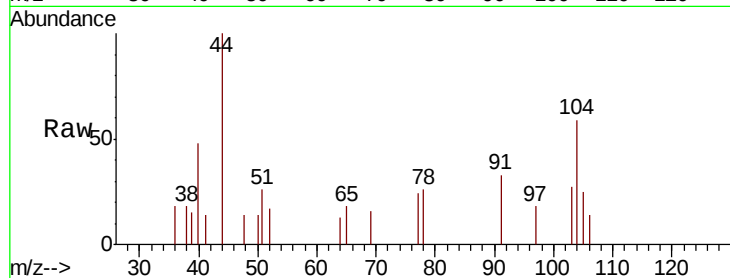
Tot Ion:104 Resp: 308

Ion Ratio Lower Upper

104 100

78 70.8 40.0 60.0#

103 65.6 44.3 66.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

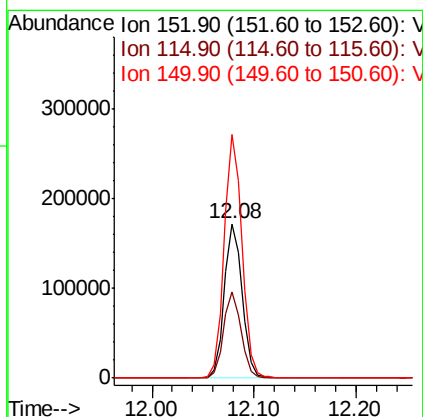
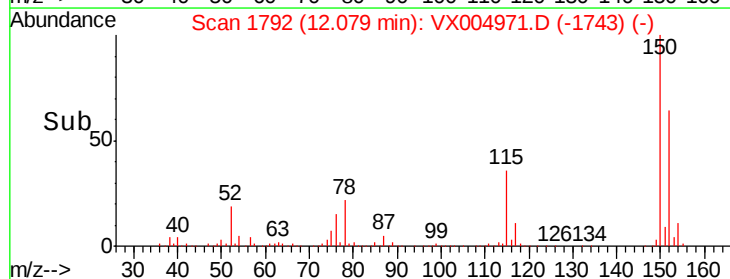
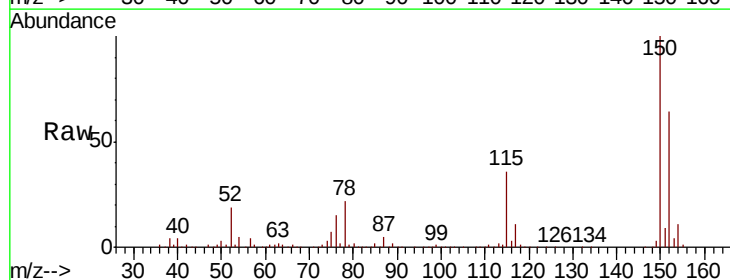
Tgt Ion:152 Resp: 209973

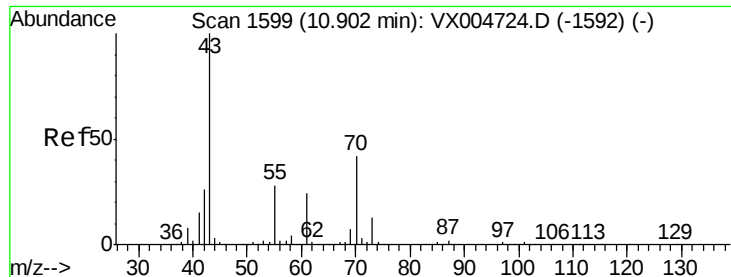
Ion Ratio Lower Upper

152 100

115 55.0 40.2 120.6

150 157.3 0.0 351.0





#74

N-amvl acetate

Concen: 1.791 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

Instrument :

MSVOA_X

ClientSampleId :

N48963

Tot Ion: 43 Resp: 325

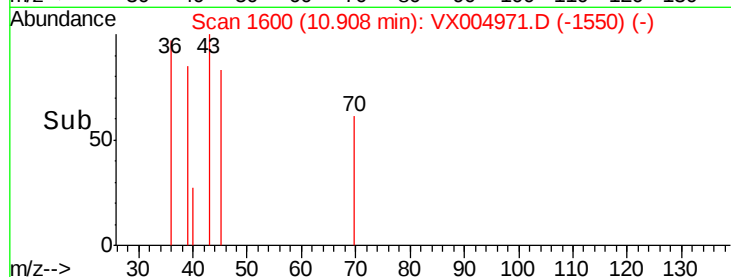
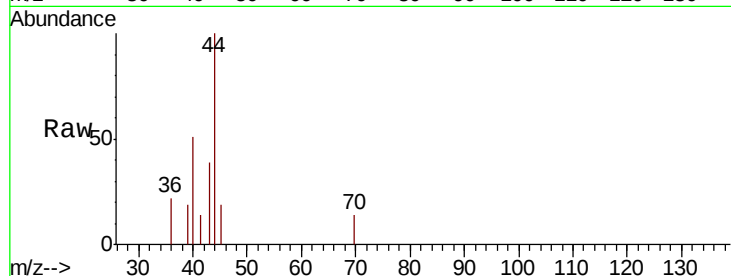
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 7.4 21.6 32.4#

61 0.0 19.1 28.7#

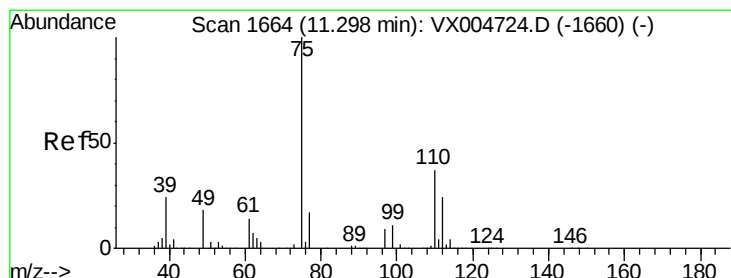
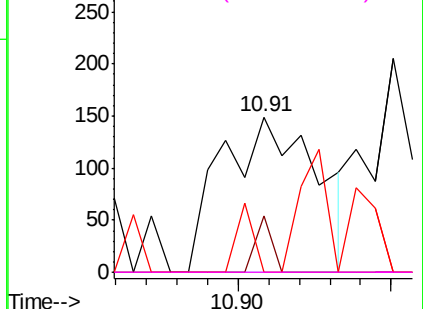


Abundance Ion 43.00 (42.70 to 43.70): VX0

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



#76

1,2,3-Trichloropropane

Concen: 20.999 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004971.D

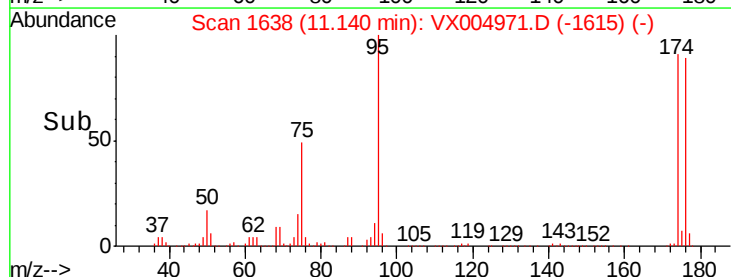
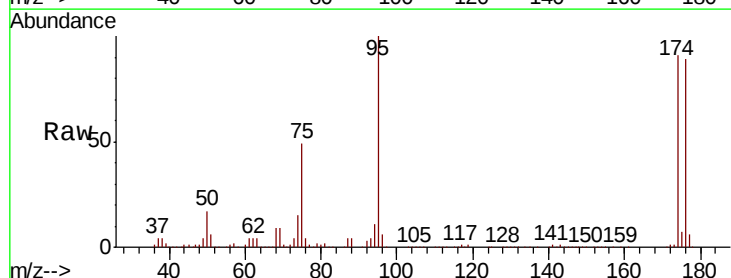
Acq: 03 Oct 2018 16:12

Tgt Ion: 75 Resp: 98825

Ion Ratio Lower Upper

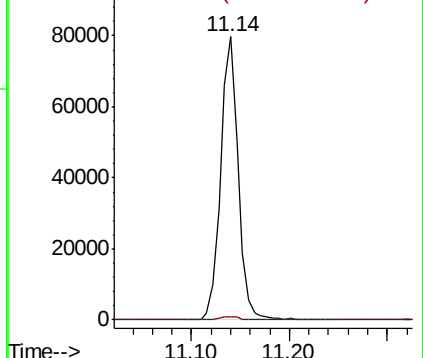
75 100

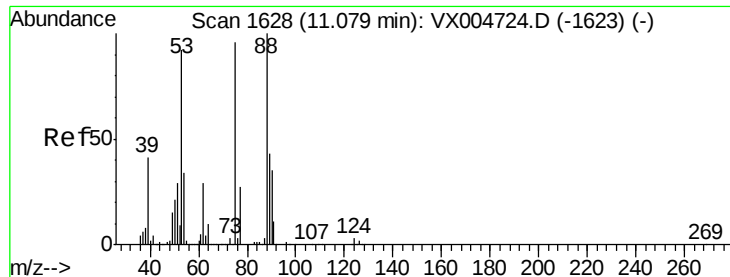
77 1.2 21.4 64.3#



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: 56.982 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

Instrument :

MSVOA_X

ClientSampleId :

N48963

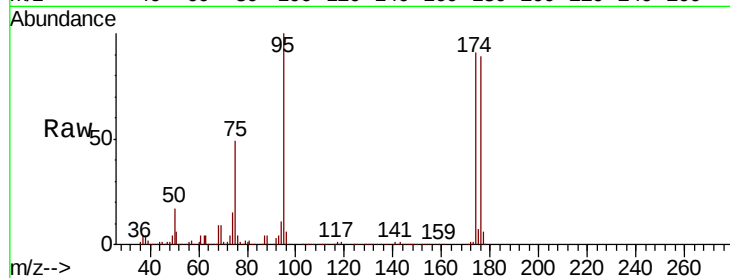
Tot Ion: 75 Resp: 98825

Ion Ratio Lower Upper

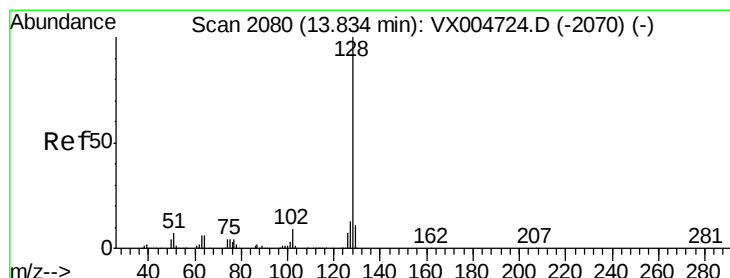
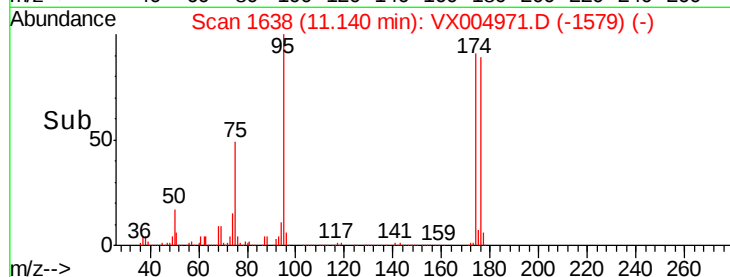
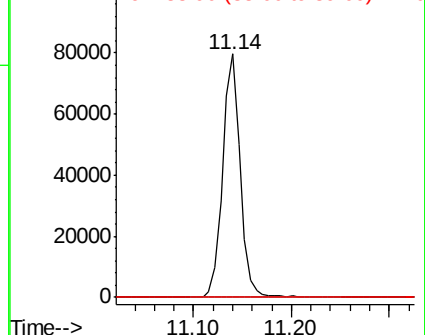
75 100

53 0.2 80.2 120.4#

89 0.0 37.1 55.7#



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: 0.830 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX004971.D

Acq: 03 Oct 2018 16:12

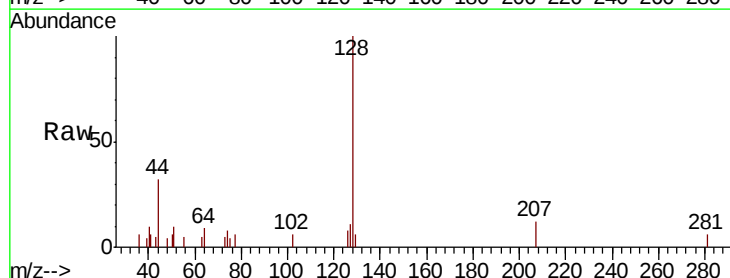
Tgt Ion: 128 Resp: 1950

Ion Ratio Lower Upper

128 100

127 12.6 10.4 15.6

129 9.6 8.7 13.1



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

