

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VO090718\
 Data File : VX004428.D
 Acq On : 08 Sep 2018 01:25
 Operator : JC/MD
 Sample : PB112672ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112672ZHE#04

Quant Time: Sep 08 04:59:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	306158	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	507325	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	467453	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	268920	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	218114	54.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.32%	
35) Dibromofluoromethane	5.50	113	192106	50.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.80%	
50) Toluene-d8	8.71	98	730373	51.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.54%	
62) 4-Bromofluorobenzene	11.14	95	253098	47.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.22%	

Target Compounds

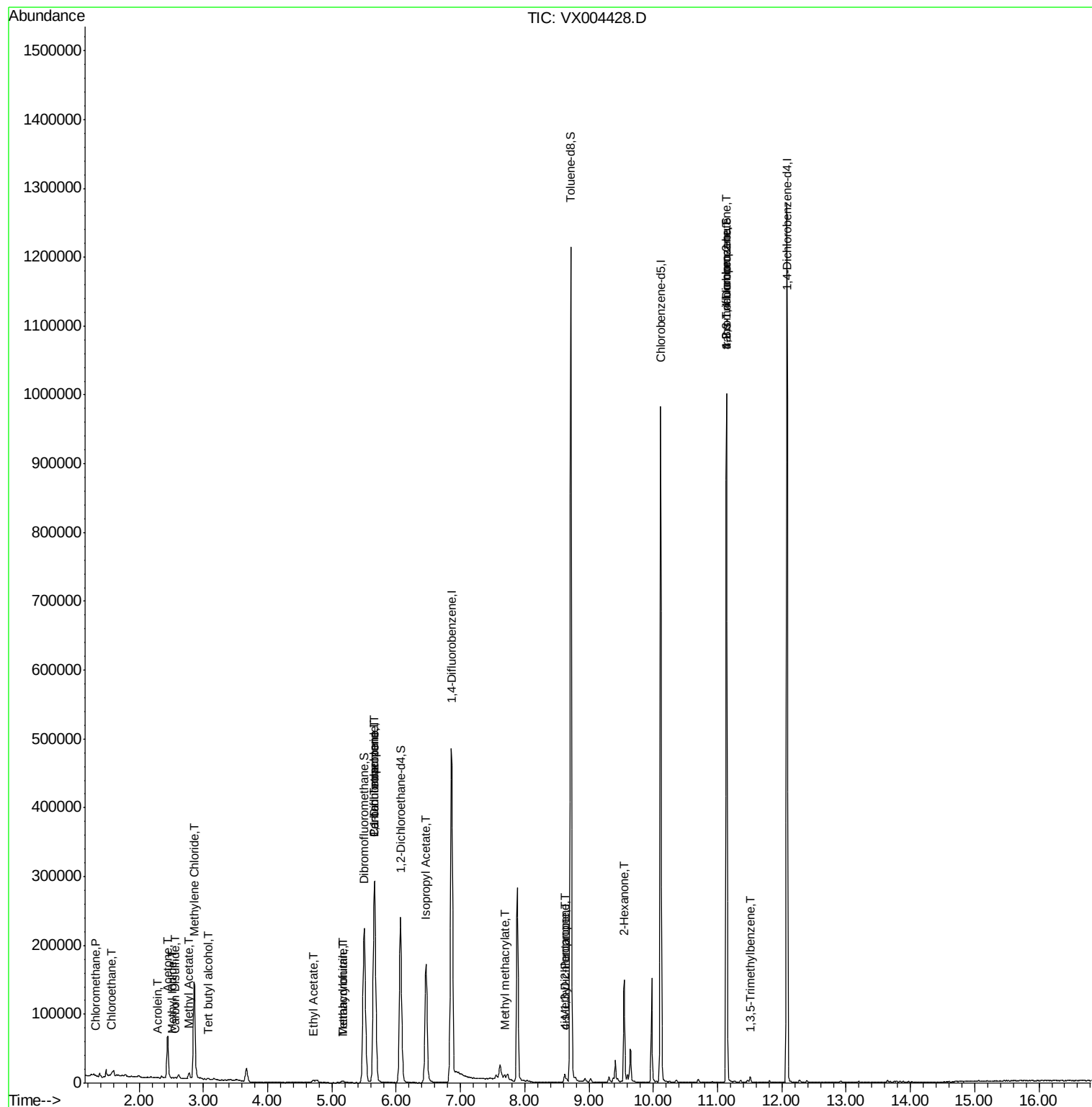
						Qvalue
3) Chloromethane	1.32	50	739	0.48	ug/l	# 80
5) Bromomethane	1.65	94	1214	Below	Cal	96
6) Chloroethane	1.56	64	8866	3.71	ug/l	# 52
10) Methyl Iodide	2.52	142	639	4.42	ug/l	# 81
11) Tert butyl alcohol	3.07	59	1266	1.49	ug/l	# 88
13) Acrolein	2.29	56	308	1.50	ug/l	# 16
16) Acetone	2.45	43	67059	34.20	ug/l	97
17) Carbon Disulfide	2.57	76	986	0.91	ug/l	# 84
18) Methyl Acetate	2.78	43	10317	1.74	ug/l	100
20) Methylene Chloride	2.85	84	67896	17.68	ug/l	98
25) 2-Butanone	4.71	43	6466	Below	Cal	99
29) Tetrahydrofuran	5.17	42	2338	1.36	ug/l	93
36) 1,1-Dichloropropene	5.67	75	20032	3.51	ug/l	# 50
37) Ethyl Acetate	4.71	43	6466	1.15	ug/l	# 67
38) Carbon Tetrachloride	5.67	117	26280	4.90	ug/l	# 16
41) Methacrylonitrile	5.17	41	1503	0.46	ug/l	# 47
43) Isopropyl Acetate	6.46	43	219646	25.48	ug/l	100
48) Methyl methacrylate	7.68	41	8692	1.88	ug/l	# 23
51) 4-Methyl-2-Pentanone	8.62	43	3638	0.58	ug/l	# 34
54) cis-1,3-Dichloropropene	8.62	75	1835	0.29	ug/l	# 64
59) 2-Hexanone	9.55	43	15889	3.33	ug/l	# 51
76) 1,2,3-Trichloropropane	11.14	75	120556	22.04	ug/l	# 37
80) 1,3,5-Trimethylbenzene	11.51	105	3034	0.21	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.14	75	120556	71.52	ug/l	# 10
94) Hexachlorobutadiene	13.79	225	225	Below	Cal	95

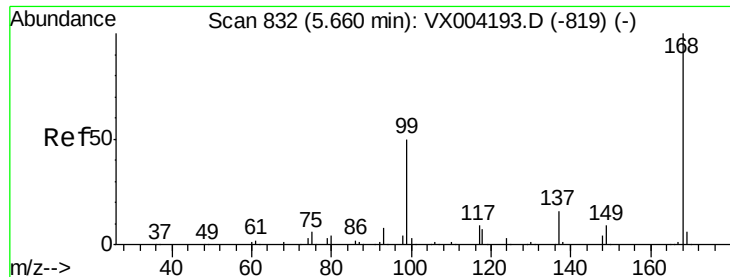
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 08 04:59:03 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration

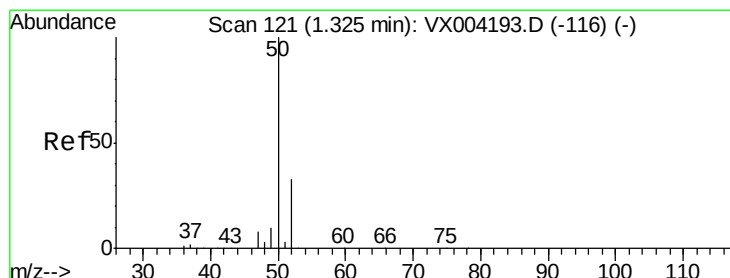
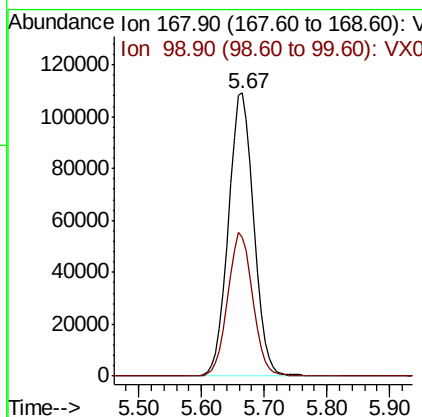
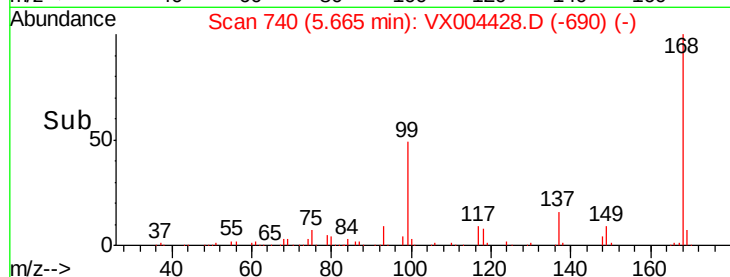
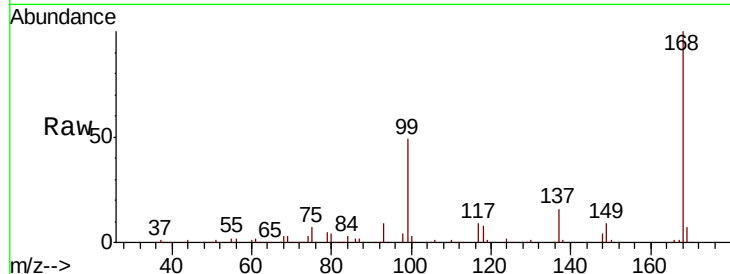




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.01 min
Lab File: VX004428.D
Acq: 08 Sep 2018 01:25

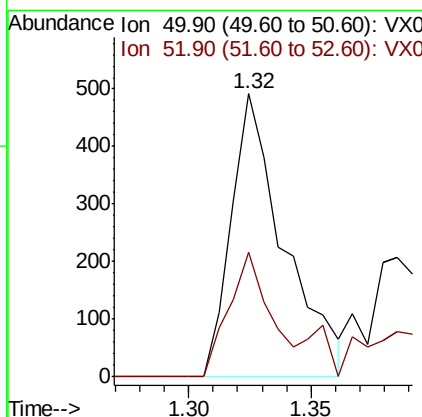
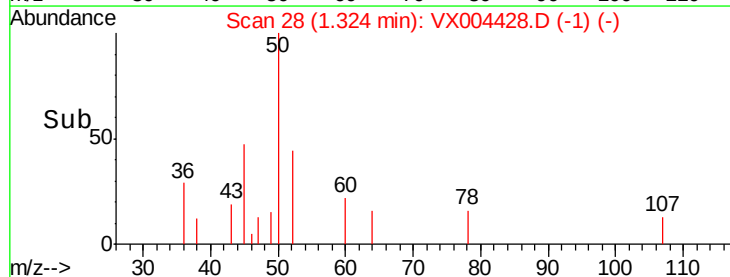
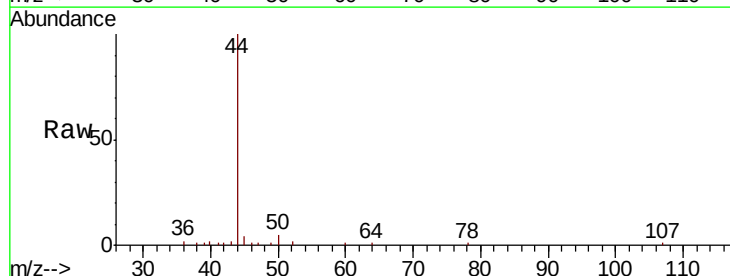
Instrument :
MSVOA_X
ClientSampleId :
PB112672ZHE#04

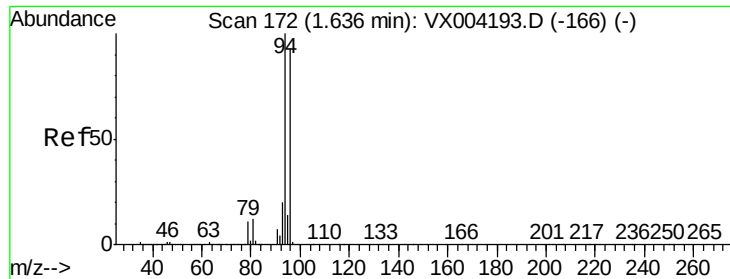
Tot Ion:168 Resp: 306158
Ion Ratio Lower Upper
168 100
99 49.0 39.9 59.9



#3
Chloromethane
Concen: 0.48 ug/l
RT: 1.32 min Scan# 28
Delta R.T. 0.00 min
Lab File: VX004428.D
Acq: 08 Sep 2018 01:25

Tgt Ion: 50 Resp: 739
Ion Ratio Lower Upper
50 100
52 43.9 26.2 39.2#





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004428.D

Acq: 08 Sep 2018 01:25

Instrument :

MSVOA_X

ClientSampleId :

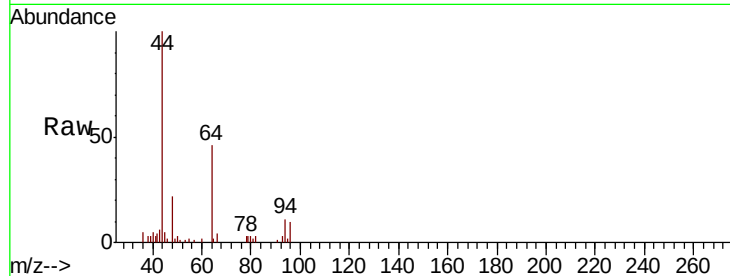
PB112672ZHE#04

Tot Ion: 94 Resp: 1214

Ion Ratio Lower Upper

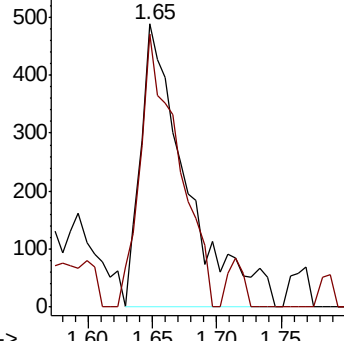
94 100

96 96.5 74.5 111.7

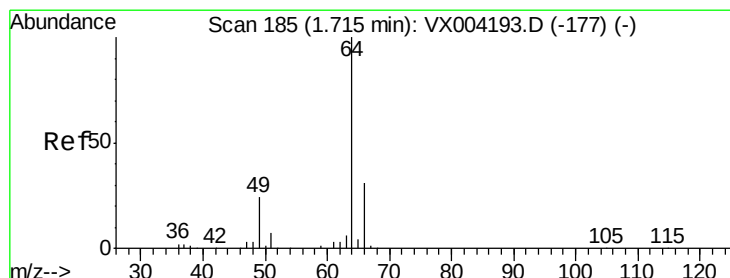
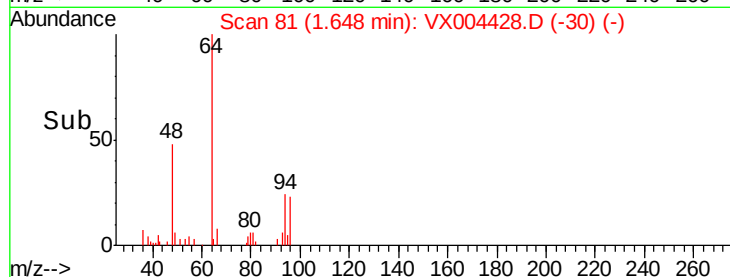


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 3.71 ug/l

RT: 1.56 min Scan# 67

Delta R.T. -0.15 min

Lab File: VX004428.D

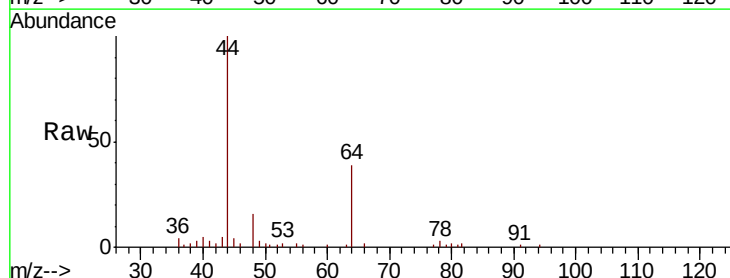
Acq: 08 Sep 2018 01:25

Tgt Ion: 64 Resp: 8866

Ion Ratio Lower Upper

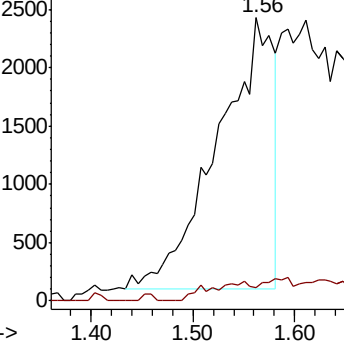
64 100

66 4.7 24.6 36.8#

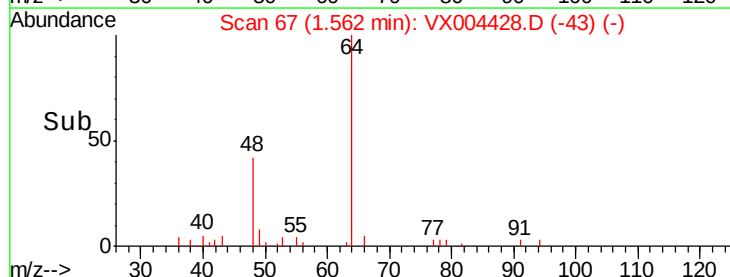


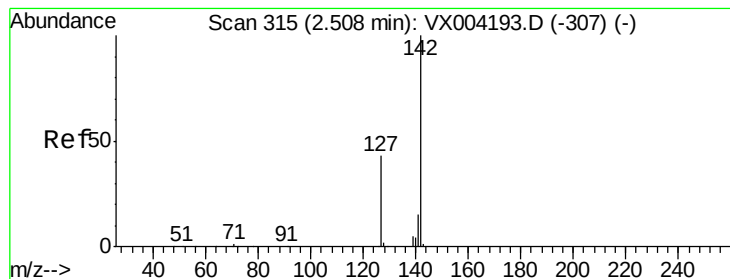
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->





#10

Methvl Iodide

Concen: 4.42 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004428.D

Acq: 08 Sep 2018 01:25

Instrument :

MSVOA_X

ClientSampleId :

PB112672ZHE#04

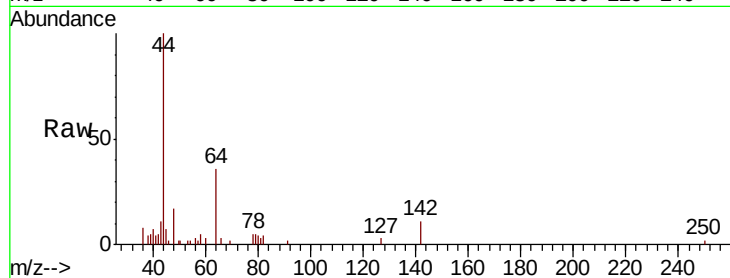
Tot Ion:142 Resp: 639

Ion Ratio Lower Upper

142 100

127 32.1 33.8 50.6#

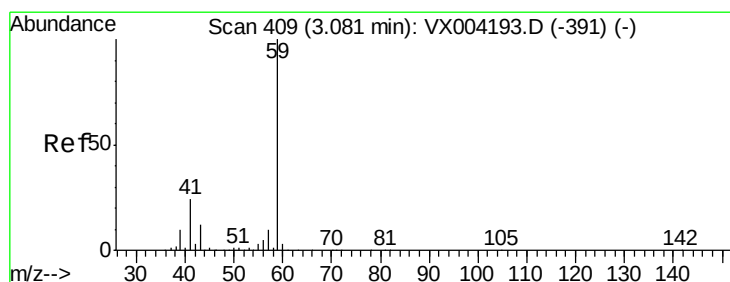
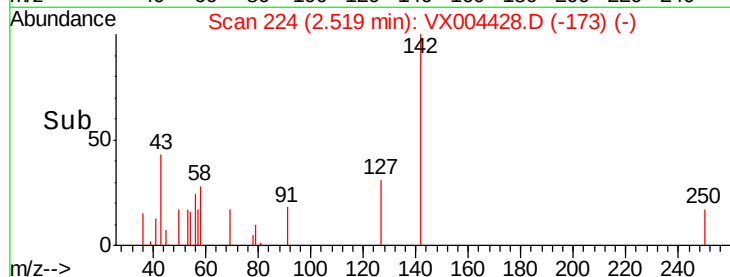
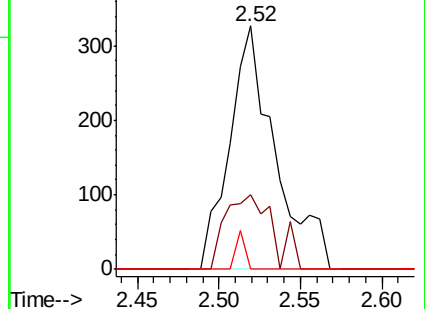
141 3.0 11.4 17.0#



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



#11

Tert butyl alcohol

Concen: 1.49 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX004428.D

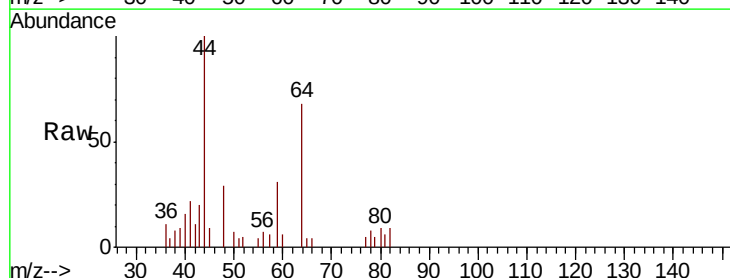
Acq: 08 Sep 2018 01:25

Tgt Ion: 59 Resp: 1266

Ion Ratio Lower Upper

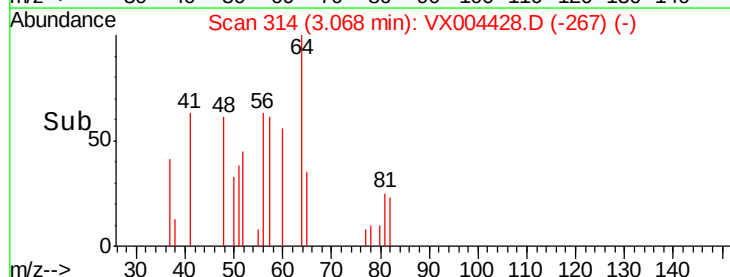
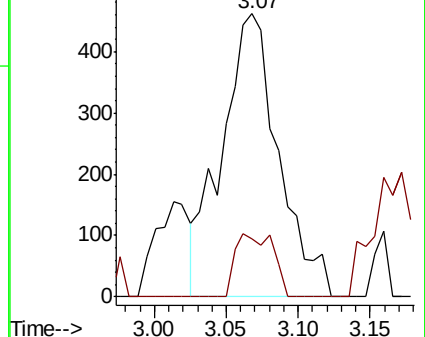
59 100

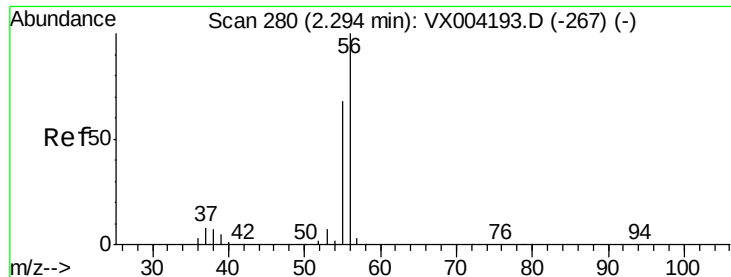
57 14.8 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.50 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX004428.D

Acq: 08 Sep 2018 01:25

Instrument :

MSVOA_X

ClientSampleId :

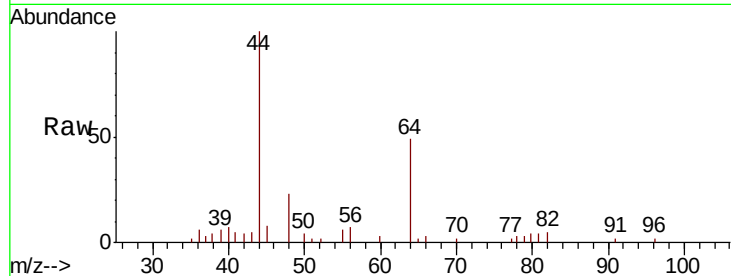
PB112672ZHE#04

Tot Ion: 56 Resp: 308

Ion Ratio Lower Upper

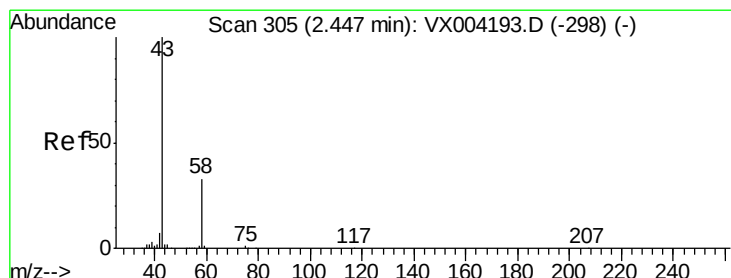
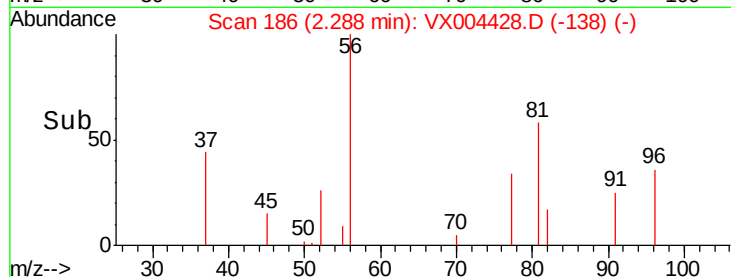
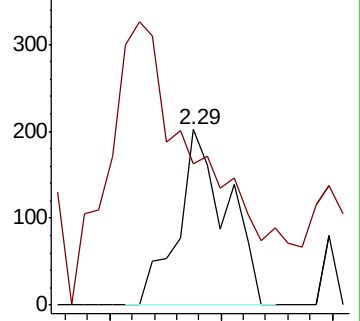
56 100

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



#16

Acetone

Concen: 34.20 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004428.D

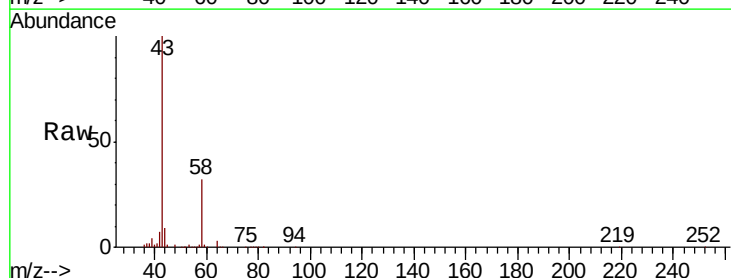
Acq: 08 Sep 2018 01:25

Tgt Ion: 43 Resp: 67059

Ion Ratio Lower Upper

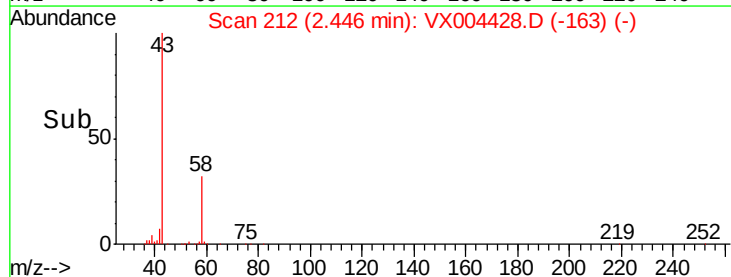
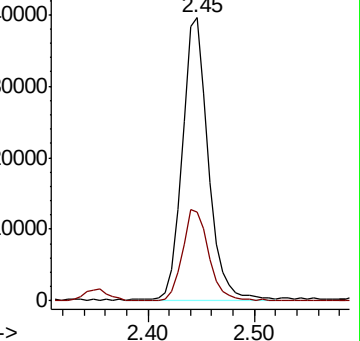
43 100

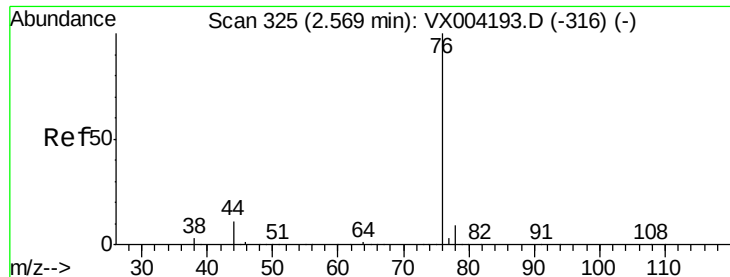
58 31.3 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.91 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004428.D

Acq: 08 Sep 2018 01:25

Instrument :

MSVOA_X

ClientSampleId :

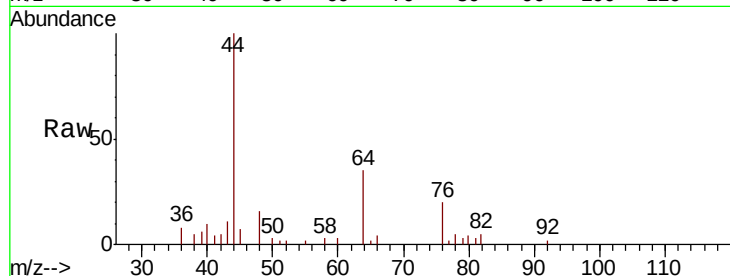
PB112672ZHE#04

Tot Ion: 76 Resp: 986

Ion Ratio Lower Upper

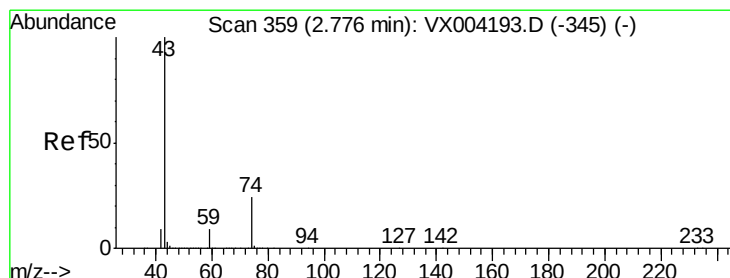
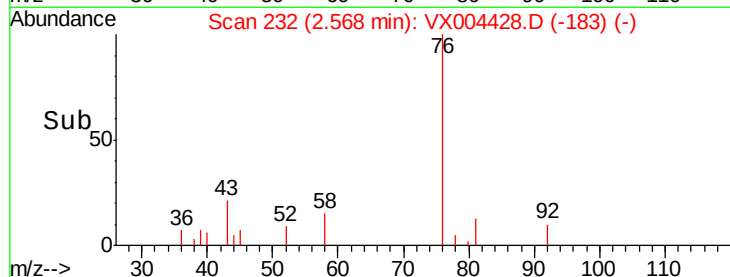
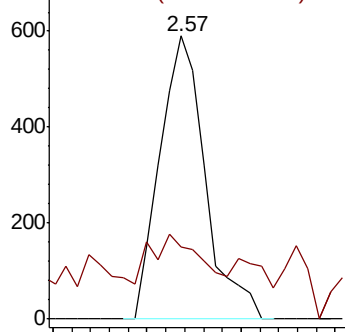
76 100

78 14.6 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 1.74 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004428.D

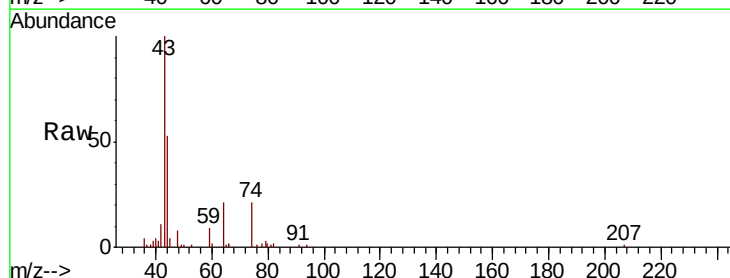
Acq: 08 Sep 2018 01:25

Tgt Ion: 43 Resp: 10317

Ion Ratio Lower Upper

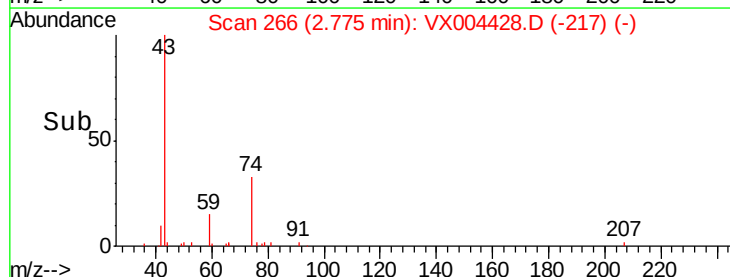
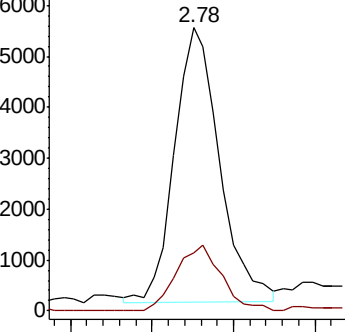
43 100

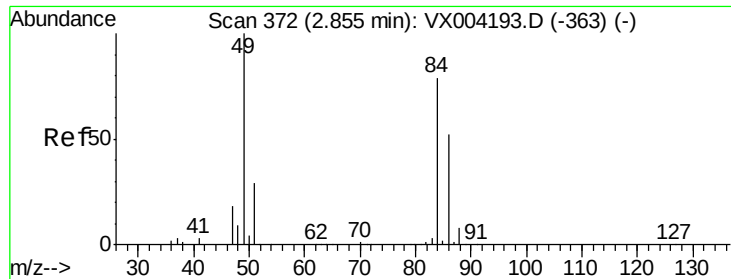
74 24.1 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

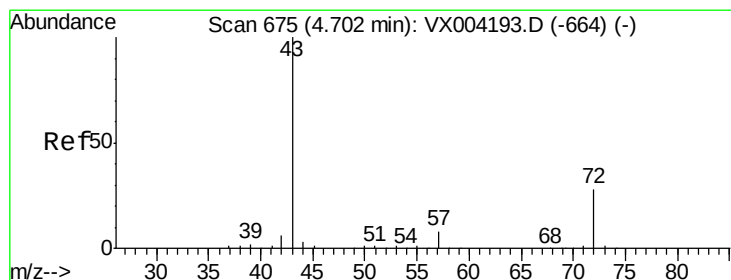
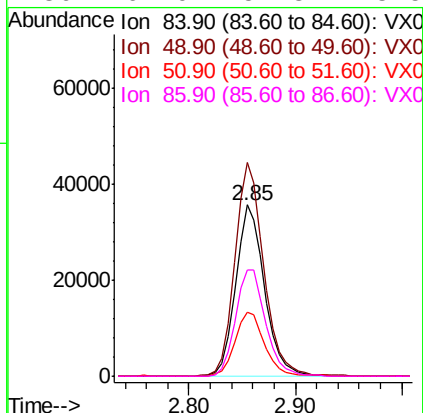
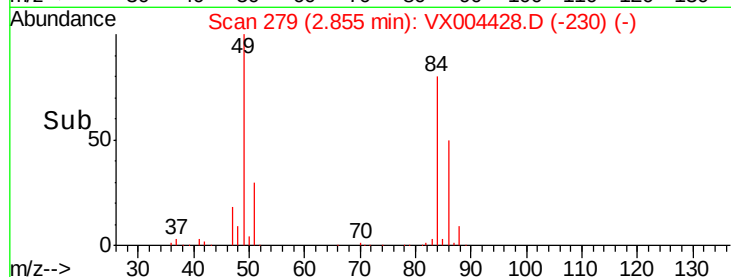
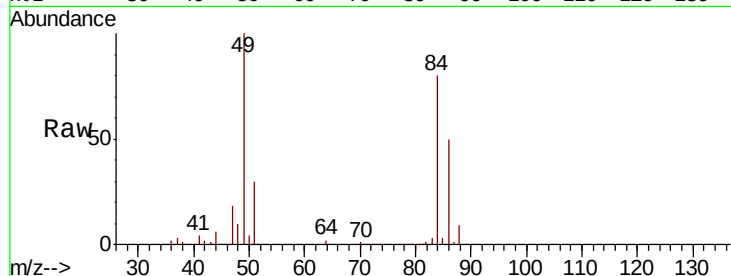




#20
Methvlene Chloride
Concen: 17.68 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004428.D
Acq: 08 Sep 2018 01:25

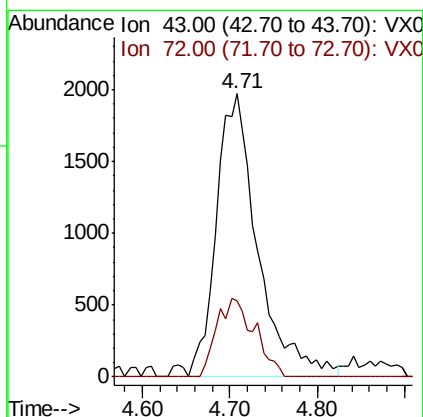
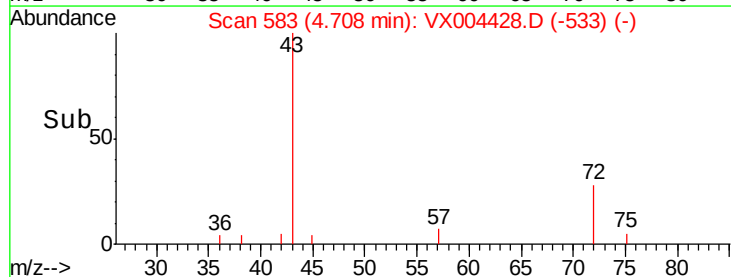
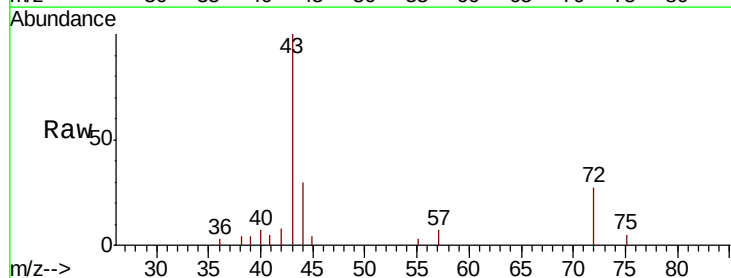
Instrument :
MSVOA_X
ClientSampleId :
PB112672ZHE#04

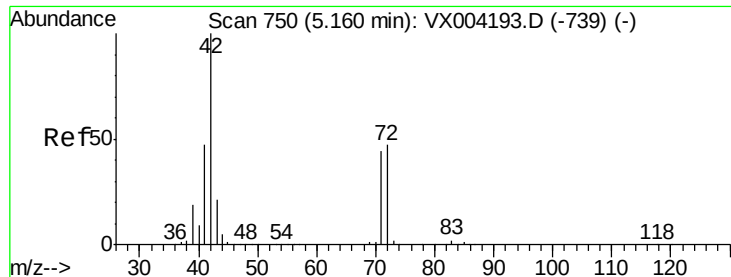
Tot Ion: 84 Resp: 67896
Ion Ratio Lower Upper
84 100
49 124.6 101.2 151.8
51 37.3 29.5 44.3
86 62.0 52.3 78.5



#25
2-Butanone
Concen: Below Cal
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX004428.D
Acq: 08 Sep 2018 01:25

Tgt Ion: 43 Resp: 6466
Ion Ratio Lower Upper
43 100
72 26.9 22.0 33.0





#29

Tetrahydrofuran

Concen: 1.36 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004428.D

Acq: 08 Sep 2018 01:25

Instrument :

MSVOA_X

ClientSampleId :

PB112672ZHE#04

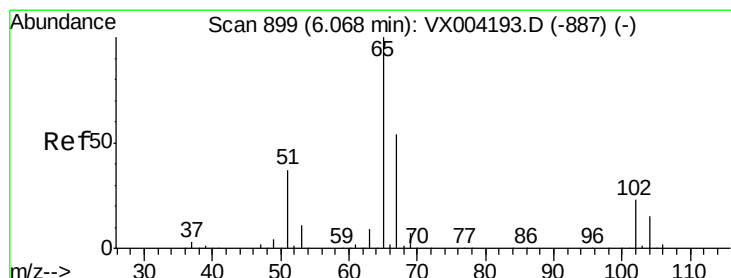
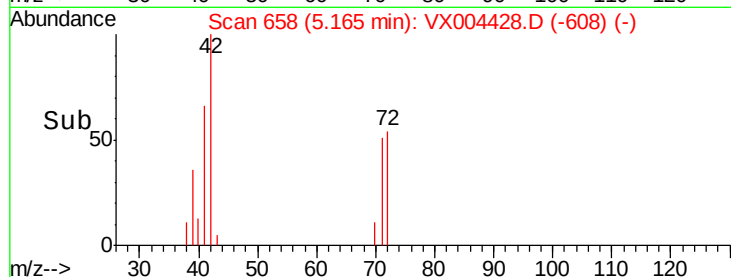
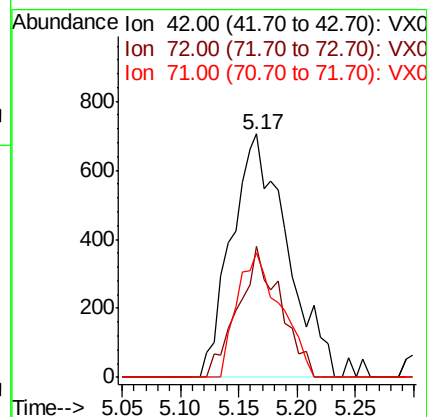
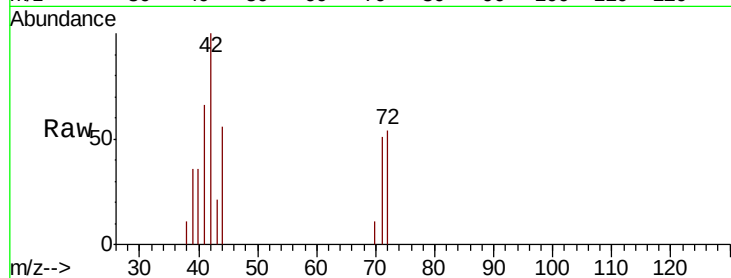
Tot Ion: 42 Resp: 2338

Ion Ratio Lower Upper

42 100

72 40.9 37.4 56.0

71 40.1 34.5 51.7



#33

1,2-Dichloroethane-d4

Concen: 54.66 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004428.D

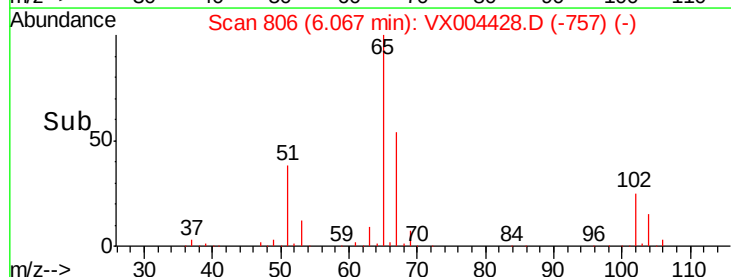
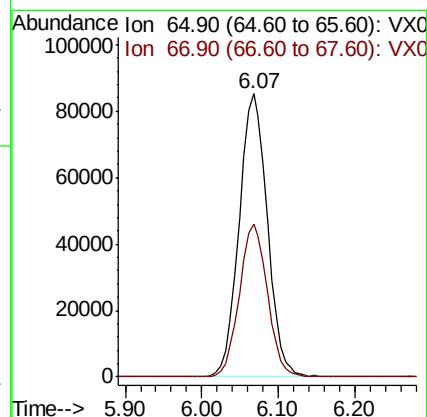
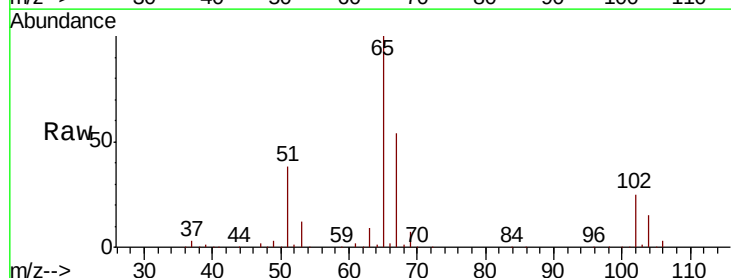
Acq: 08 Sep 2018 01:25

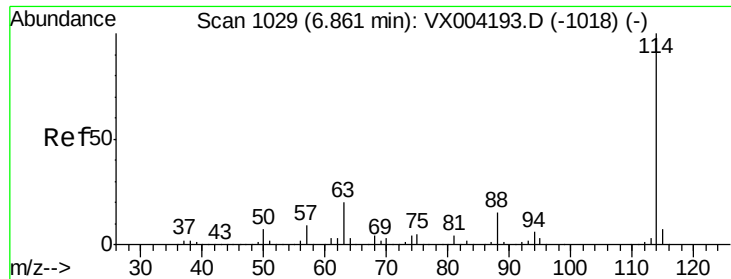
Tgt Ion: 65 Resp: 218114

Ion Ratio Lower Upper

65 100

67 53.8 0.0 106.8

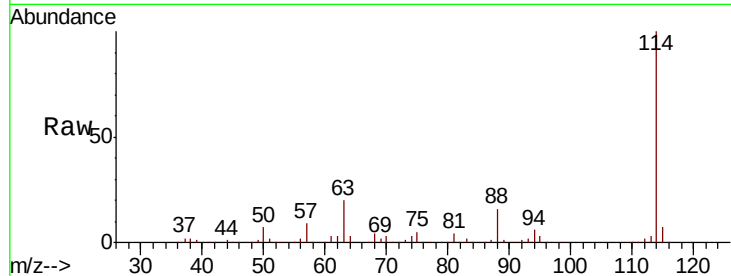




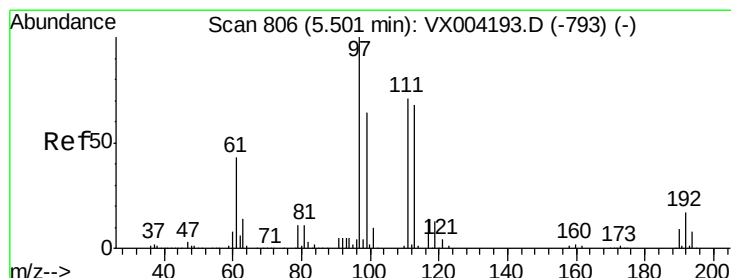
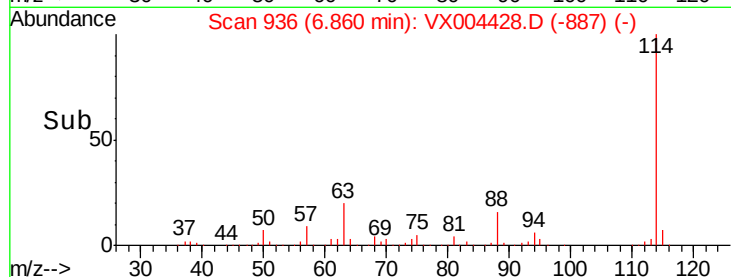
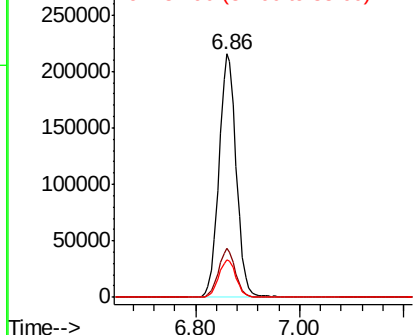
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004428.D
 Acq: 08 Sep 2018 01:25

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112672ZHE#04

Tot Ion:114 Resp: 507325
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.0
 88 15.7 0.0 30.4

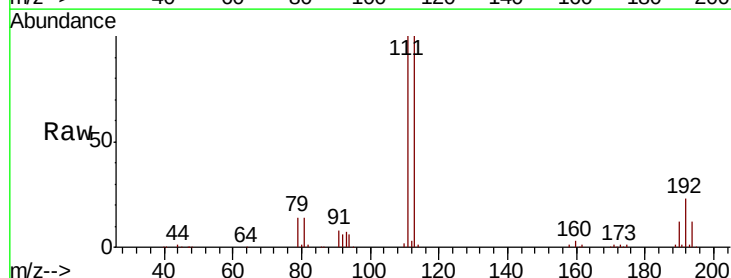


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

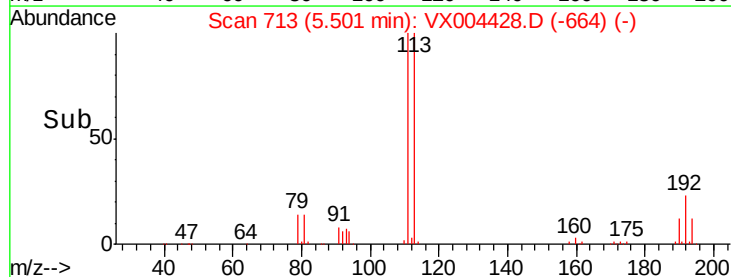
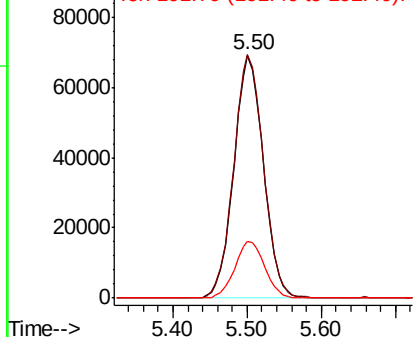


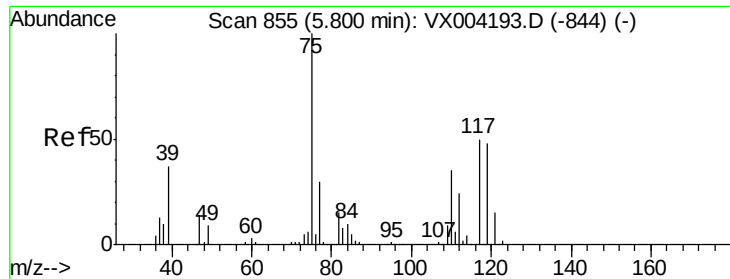
#35
 Dibromofluoromethane
 Concen: 50.90 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004428.D
 Acq: 08 Sep 2018 01:25

Tgt Ion:113 Resp: 192106
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.4 123.6
 192 23.7 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

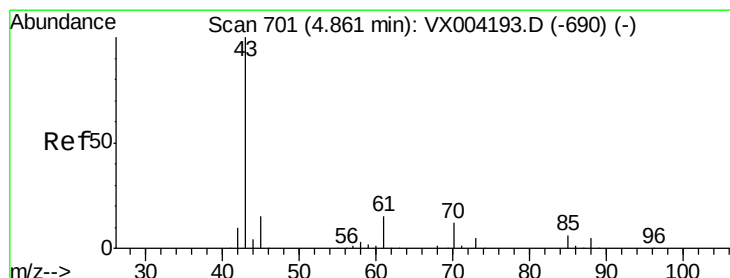
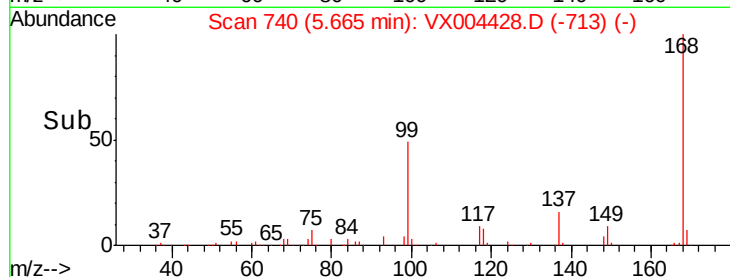
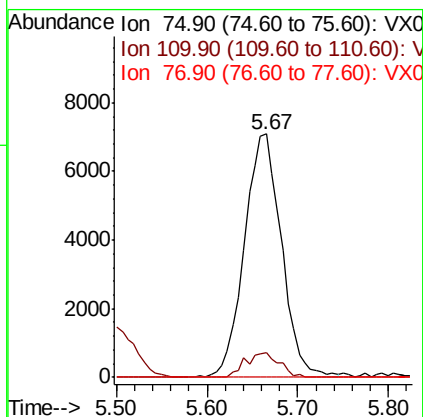
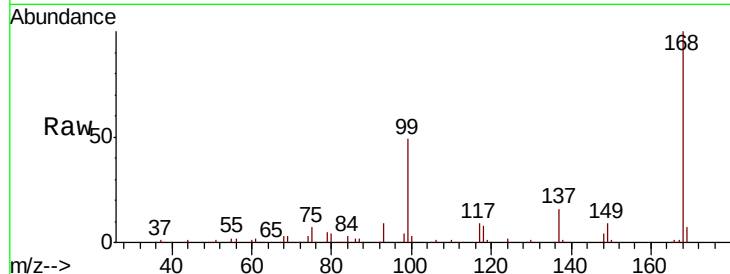




#36
 1,1-Dichloropropene
 Concen: 3.51 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004428.D
 Acq: 08 Sep 2018 01:25

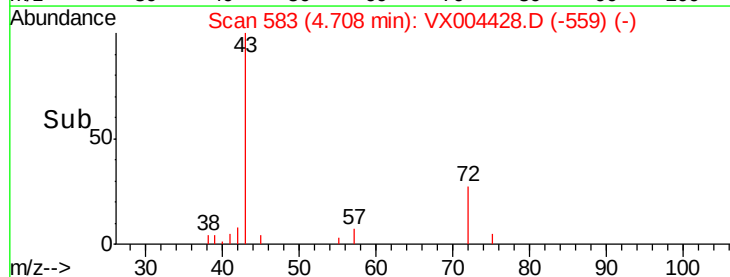
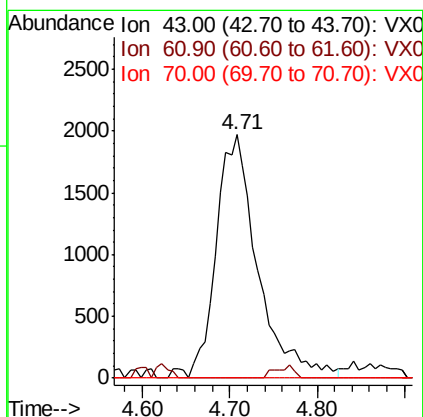
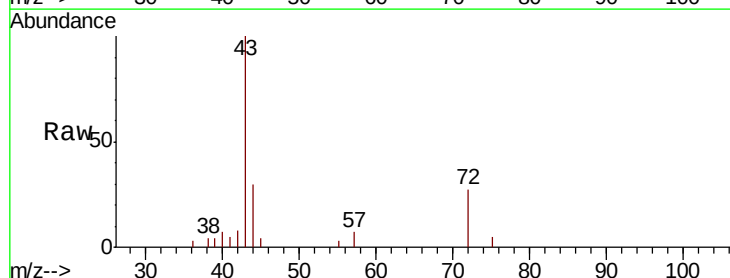
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112672ZHE#04

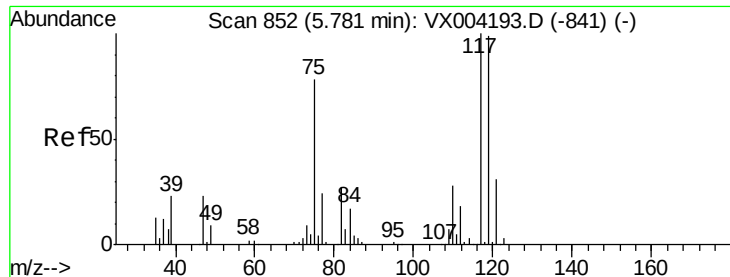
Tot Ion	75	Resp	20032
Ion Ratio	Lower	Upper	
75	100		
110	9.3	18.0	54.0#
77	0.0	24.6	36.8#



#37
 Ethyl Acetate
 Concen: 1.15 ug/l
 RT: 4.71 min Scan# 583
 Delta R.T. -0.15 min
 Lab File: VX004428.D
 Acq: 08 Sep 2018 01:25

Tgt Ion	43	Resp	6466
Ion Ratio	Lower	Upper	
43	100		
61	0.0	11.5	17.3#
70	0.0	9.0	13.6#

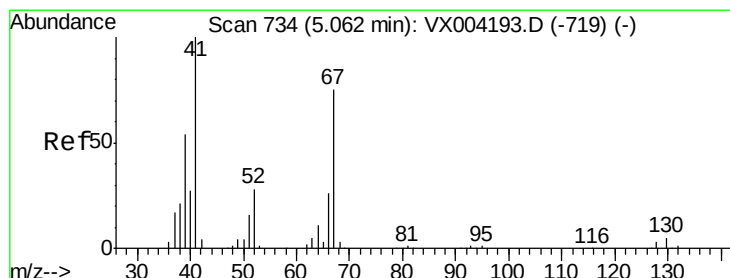
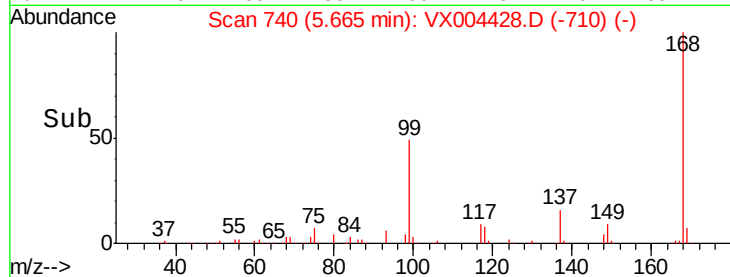
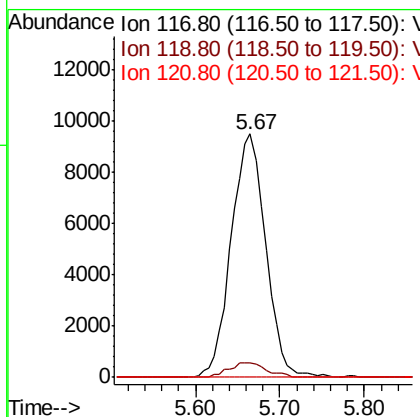
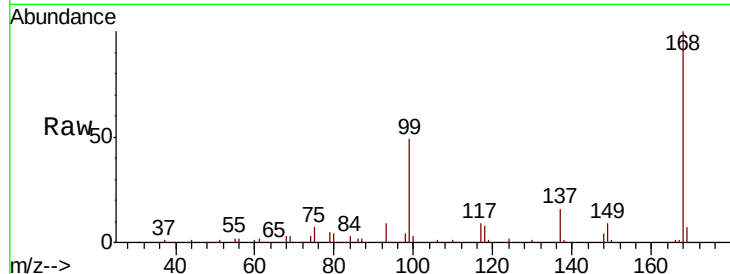




#38
Carbon Tetrachloride
Concen: 4.90 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX004428.D
Acq: 08 Sep 2018 01:25

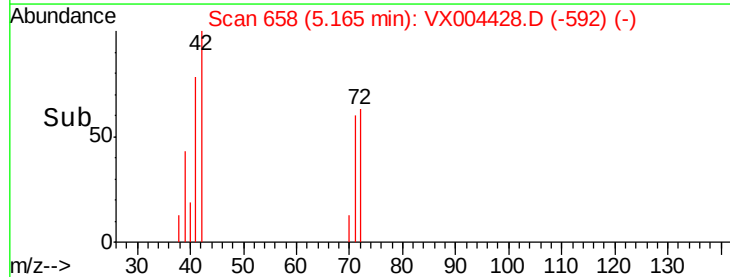
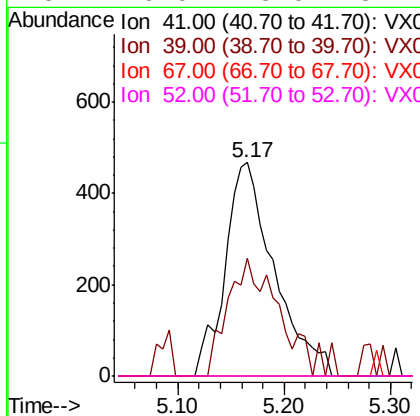
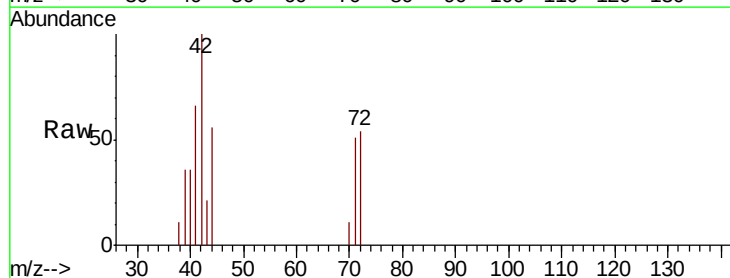
Instrument :
MSVOA_X
ClientSampleId :
PB112672ZHE#04

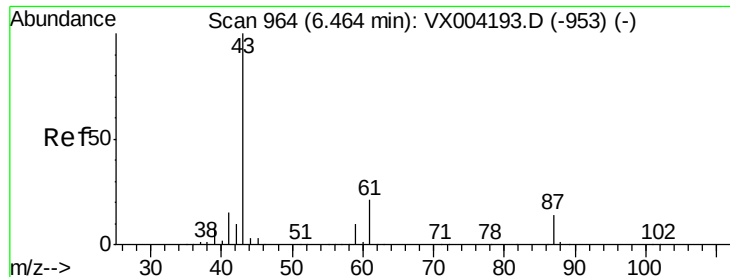
Tot Ion:117 Resp: 26280
Ion Ratio Lower Upper
117 100
119 6.1 78.8 118.2#
121 0.0 24.9 37.3#



#41
Methacrylonitrile
Concen: 0.46 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.10 min
Lab File: VX004428.D
Acq: 08 Sep 2018 01:25

Tgt Ion: 41 Resp: 1503
Ion Ratio Lower Upper
41 100
39 56.0 42.4 63.6
67 0.0 59.2 88.8#
52 0.0 23.0 34.4#





#43

Isopropyl Acetate

Concen: 25.48 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX004428.D

Acq: 08 Sep 2018 01:25

Instrument :

MSVOA_X

ClientSampleId :

PB112672ZHE#04

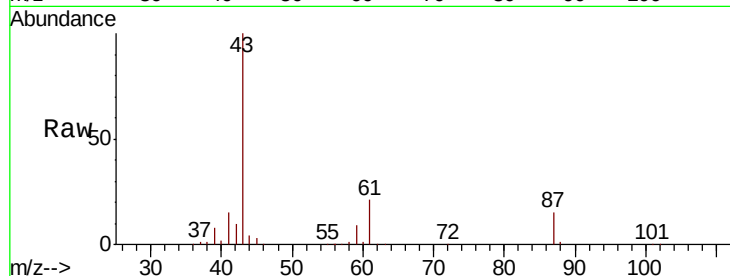
Tot Ion: 43 Resp: 219646

Ion Ratio Lower Upper

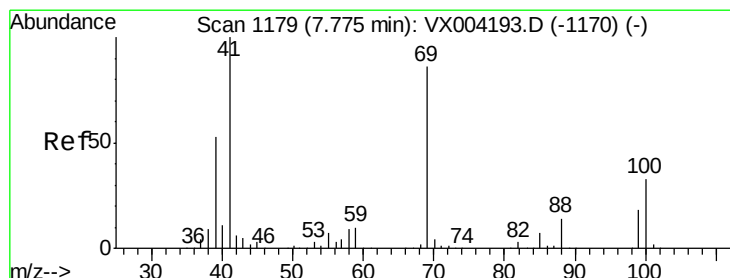
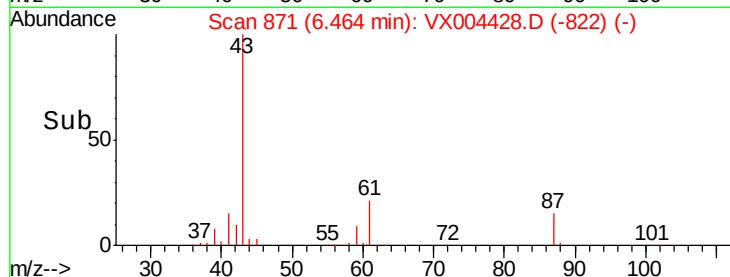
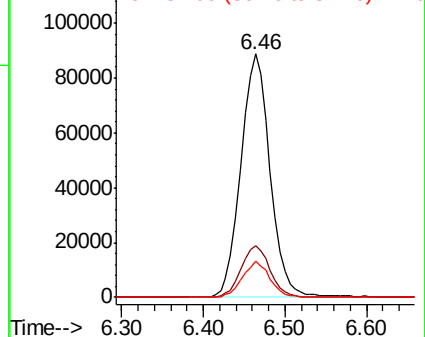
43 100

61 21.3 17.0 25.4

87 14.1 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.88 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX004428.D

Acq: 08 Sep 2018 01:25

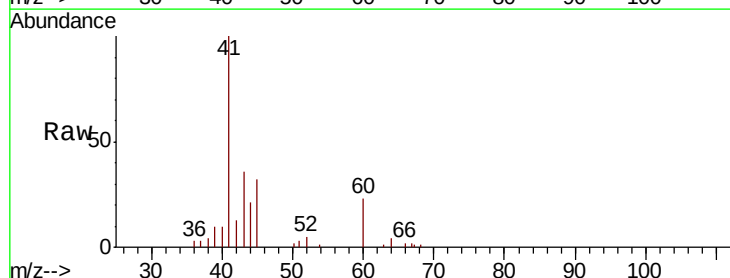
Tgt Ion: 41 Resp: 8692

Ion Ratio Lower Upper

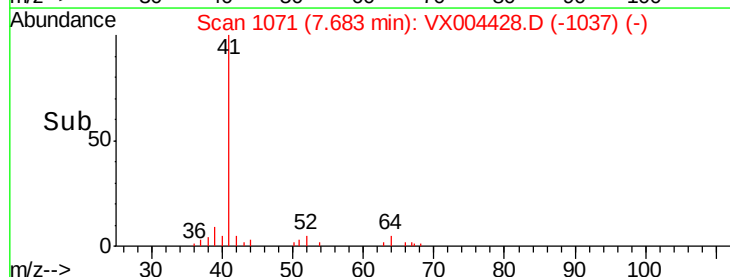
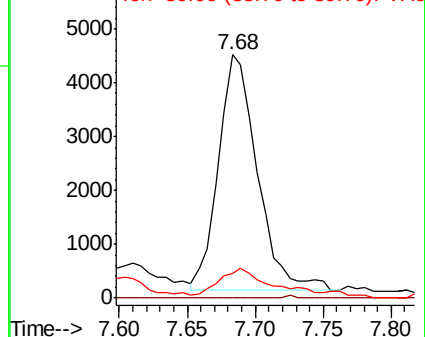
41 100

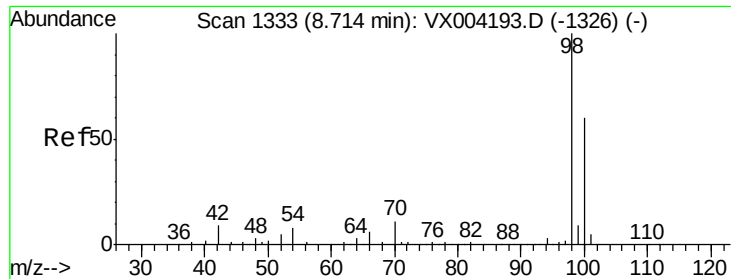
69 0.0 70.2 105.4#

39 19.5 42.7 64.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 51.27 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004428.D

Acq: 08 Sep 2018 01:25

Instrument :

MSVOA_X

ClientSampleId :

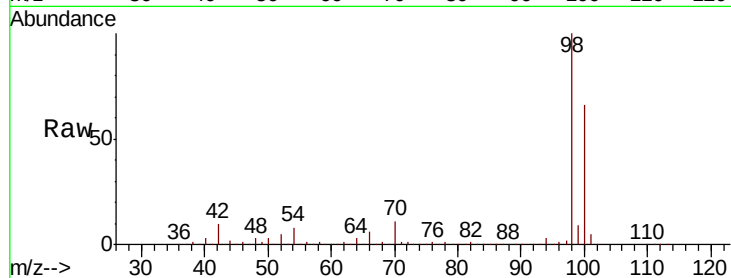
PB112672ZHE#04

Tot Ion: 98 Resp: 730373

Ion Ratio Lower Upper

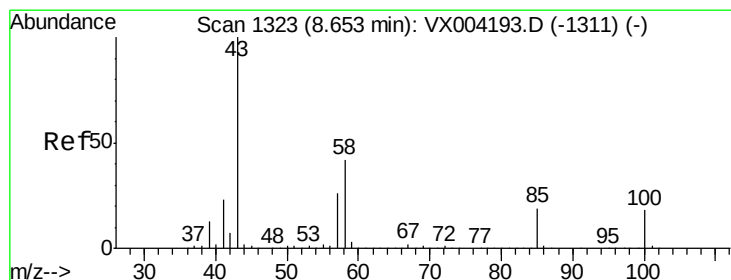
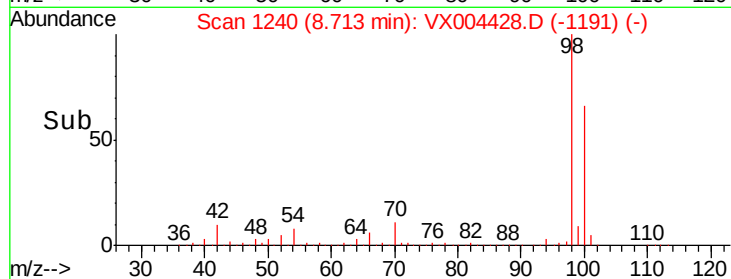
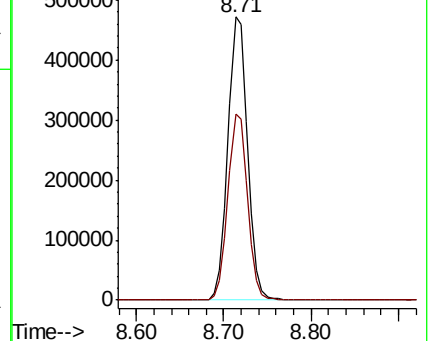
98 100

100 66.0 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.58 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004428.D

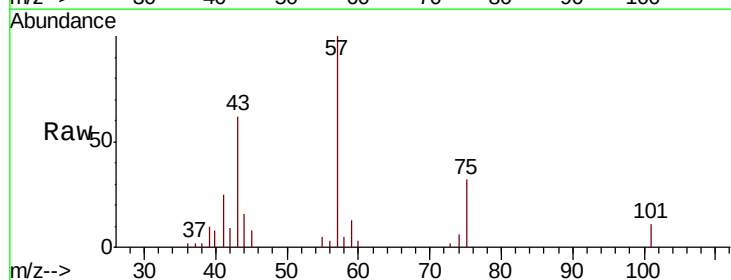
Acq: 08 Sep 2018 01:25

Tgt Ion: 43 Resp: 3638

Ion Ratio Lower Upper

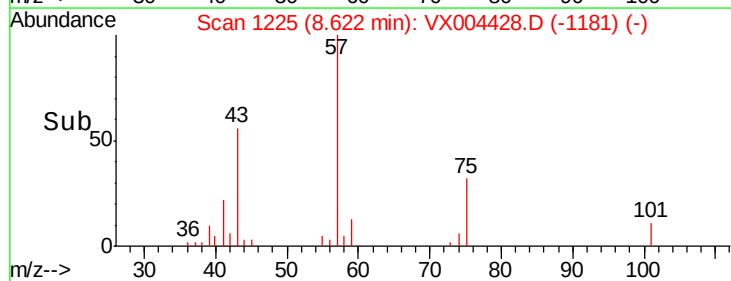
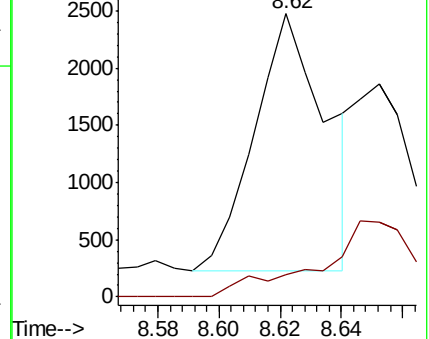
43 100

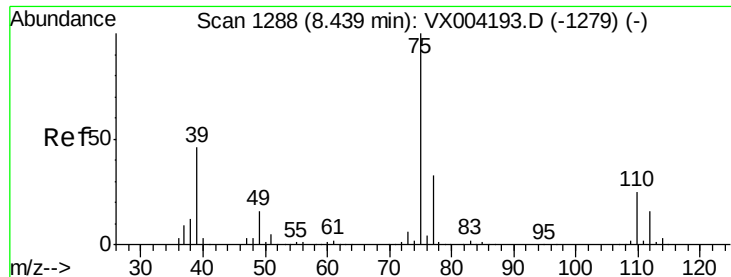
58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

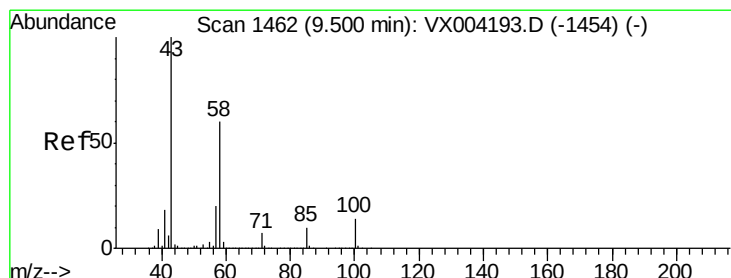
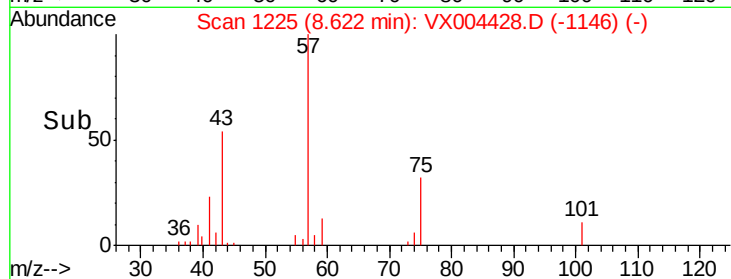
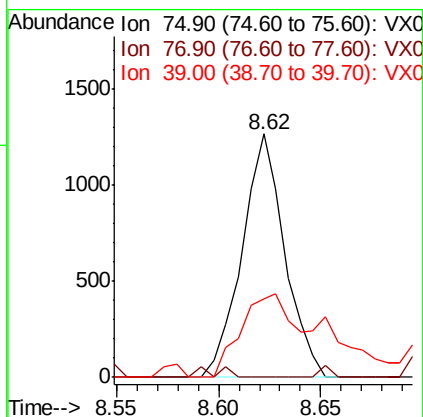
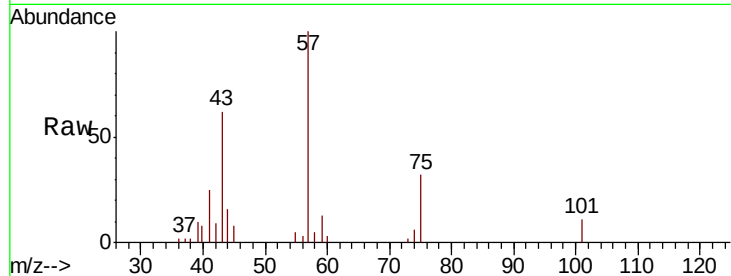




#54
 cis-1,3-Dichloropropene
 Concen: 0.29 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004428.D
 Acq: 08 Sep 2018 01:25

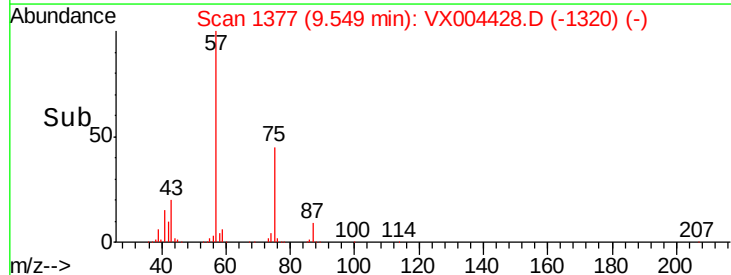
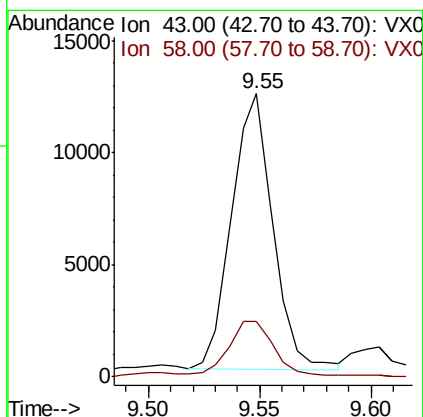
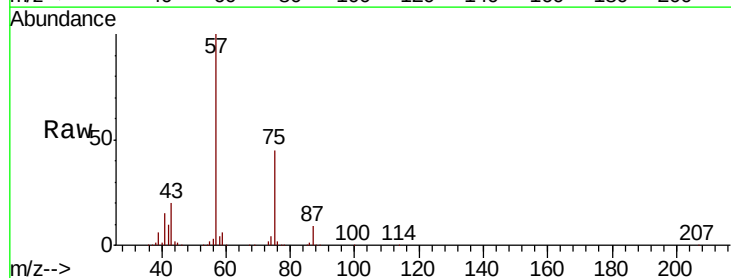
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112672ZHE#04

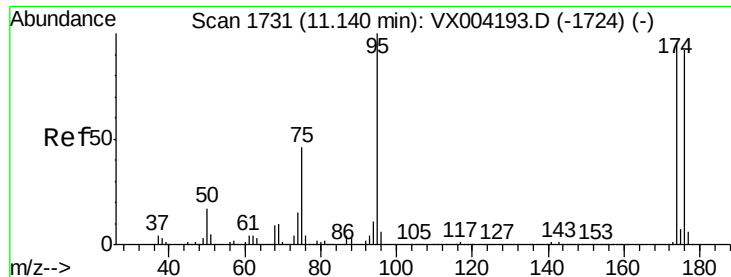
Tot Ion: 75 Resp: 1835
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 32.5 36.4 54.6#



#59
 2-Hexanone
 Concen: 3.33 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX004428.D
 Acq: 08 Sep 2018 01:25

Tgt Ion: 43 Resp: 15889
 Ion Ratio Lower Upper
 43 100
 58 21.6 29.0 87.0#

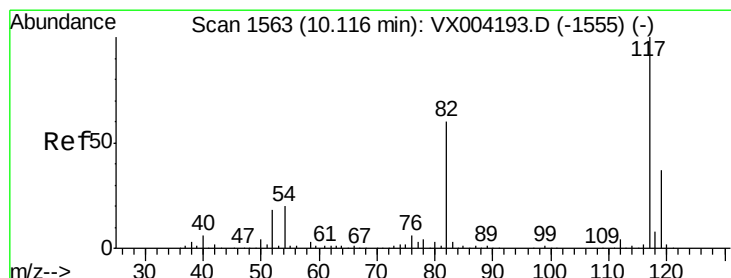
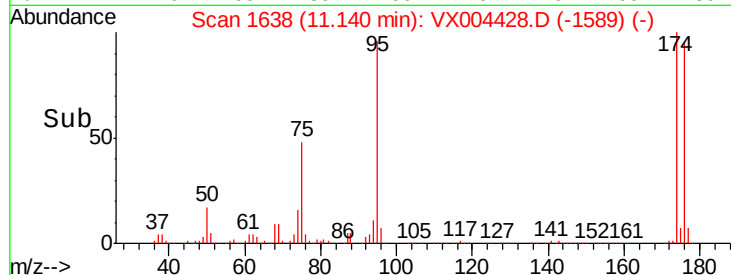
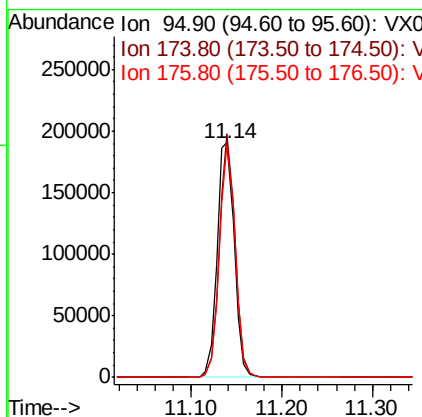
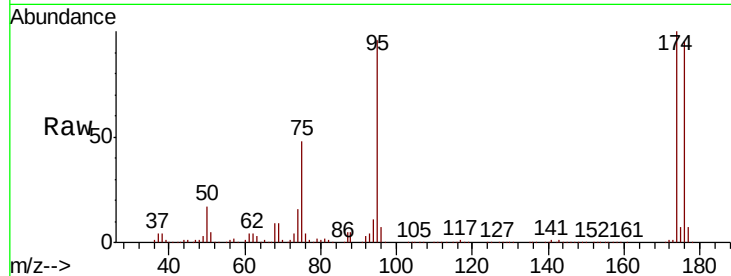




#62
4-Bromofluorobenzene
Concen: 47.61 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004428.D
Acq: 08 Sep 2018 01:25

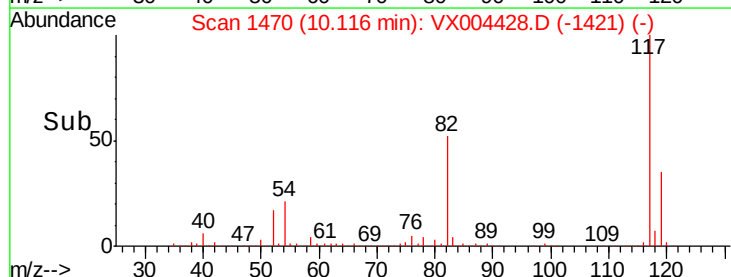
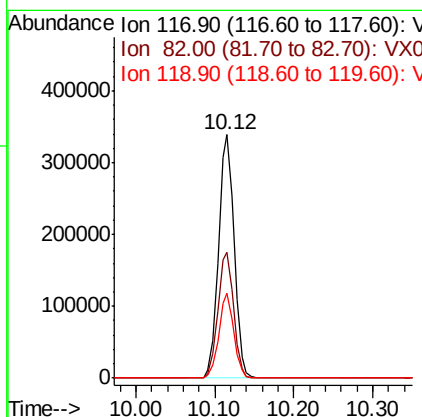
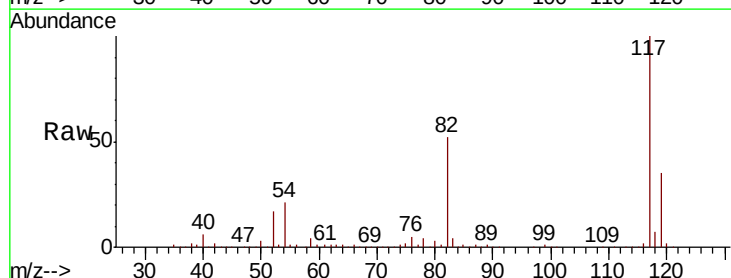
Instrument :
MSVOA_X
ClientSampleId :
PB112672ZHE#04

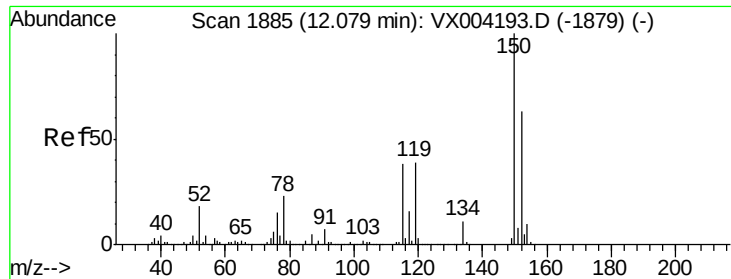
Tot Ion: 95 Resp: 253098
Ion Ratio Lower Upper
95 100
174 94.5 0.0 185.2
176 90.7 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004428.D
Acq: 08 Sep 2018 01:25

Tgt Ion: 117 Resp: 467453
Ion Ratio Lower Upper
117 100
82 51.8 47.8 71.6
119 35.0 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004428.D

Acq: 08 Sep 2018 01:25

Instrument :

MSVOA_X

ClientSampleId :

PB112672ZHE#04

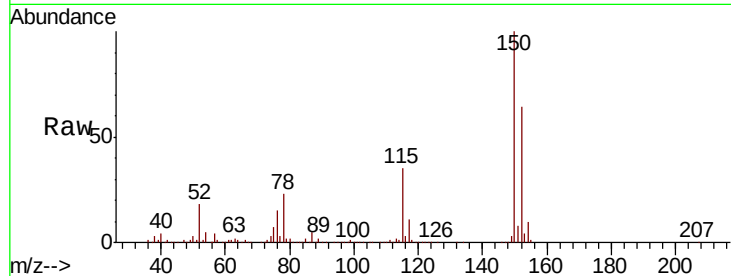
Tot Ion:152 Resp: 268920

Ion Ratio Lower Upper

152 100

115 55.0 39.0 117.0

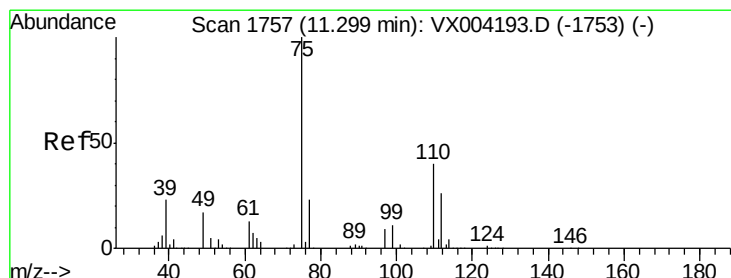
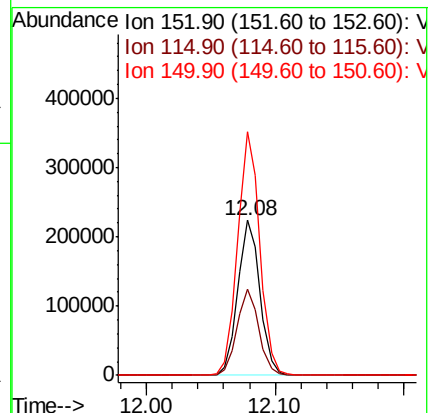
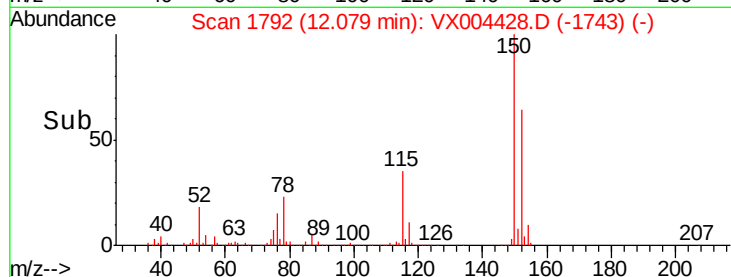
150 157.0 0.0 351.0



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: 22.04 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004428.D

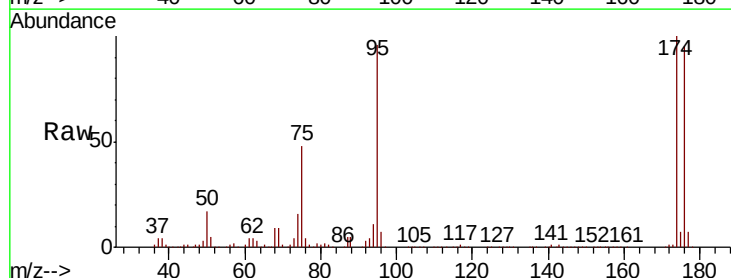
Acq: 08 Sep 2018 01:25

Tgt Ion: 75 Resp: 120556

Ion Ratio Lower Upper

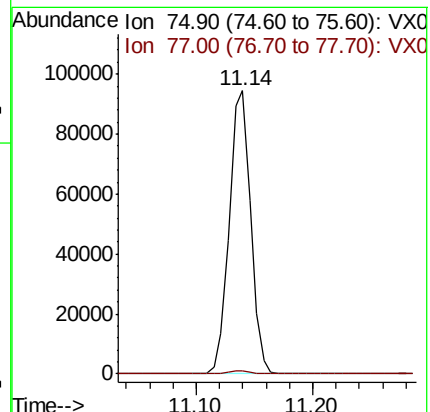
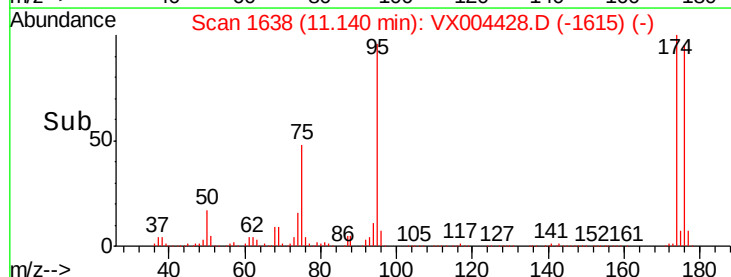
75 100

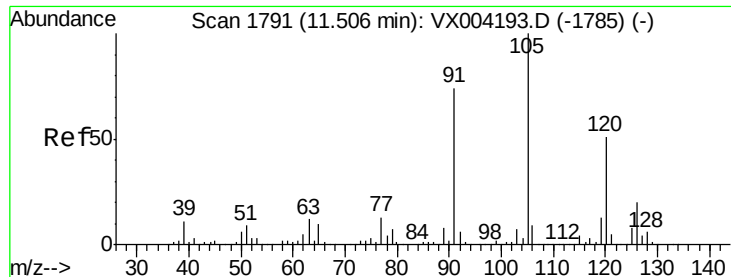
77 1.2 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

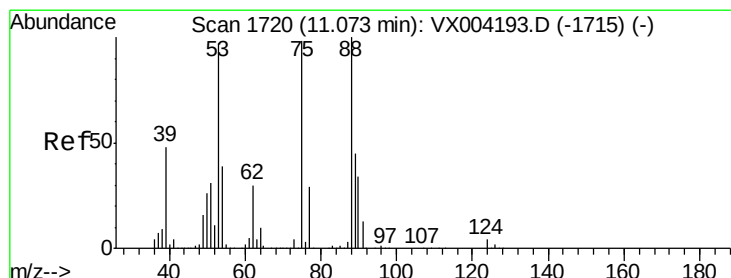
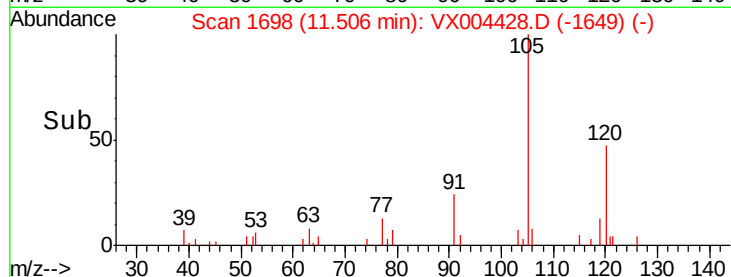
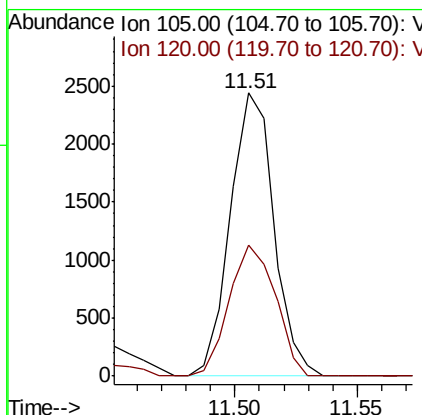
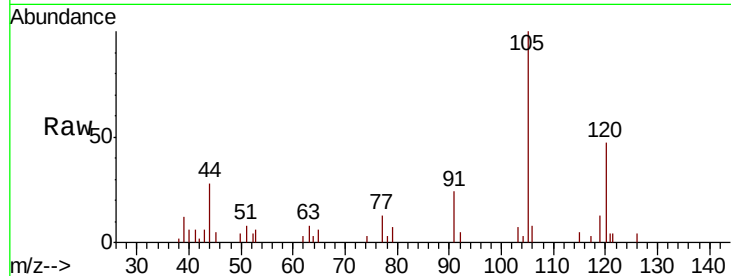




#80
 1,3,5-Trimethylbenzene
 Concen: 0.21 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX004428.D
 Acq: 08 Sep 2018 01:25

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112672ZHE#04

Tot Ion:105 Resp: 3034
 Ion Ratio Lower Upper
 105 100
 120 49.1 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.52 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX004428.D
 Acq: 08 Sep 2018 01:25

Tgt Ion: 75 Resp: 120556
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.1 120.1#
 89 0.0 37.2 55.8#

