

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102519\
 Data File : VX013227.D
 Acq On : 25 Oct 2019 13:44
 Operator : JC/SP
 Sample : K5546-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EB-01-102419

Quant Time: Oct 26 07:17:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 24 03:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	688	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	506	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.12	117	273	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	251	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	165	11.47	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	22.94%	
35) Dibromofluoromethane	5.50	113	63	11.17	ug/l	0.01
Spiked Amount				50.000		
			Recovery	=	22.34%	
50) Toluene-d8	8.71	98	335	16.02	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	32.04%	
62) 4-Bromofluorobenzene	11.14	95	168	20.30	ug/l	0.01
Spiked Amount				50.000		
			Recovery	=	40.60%	

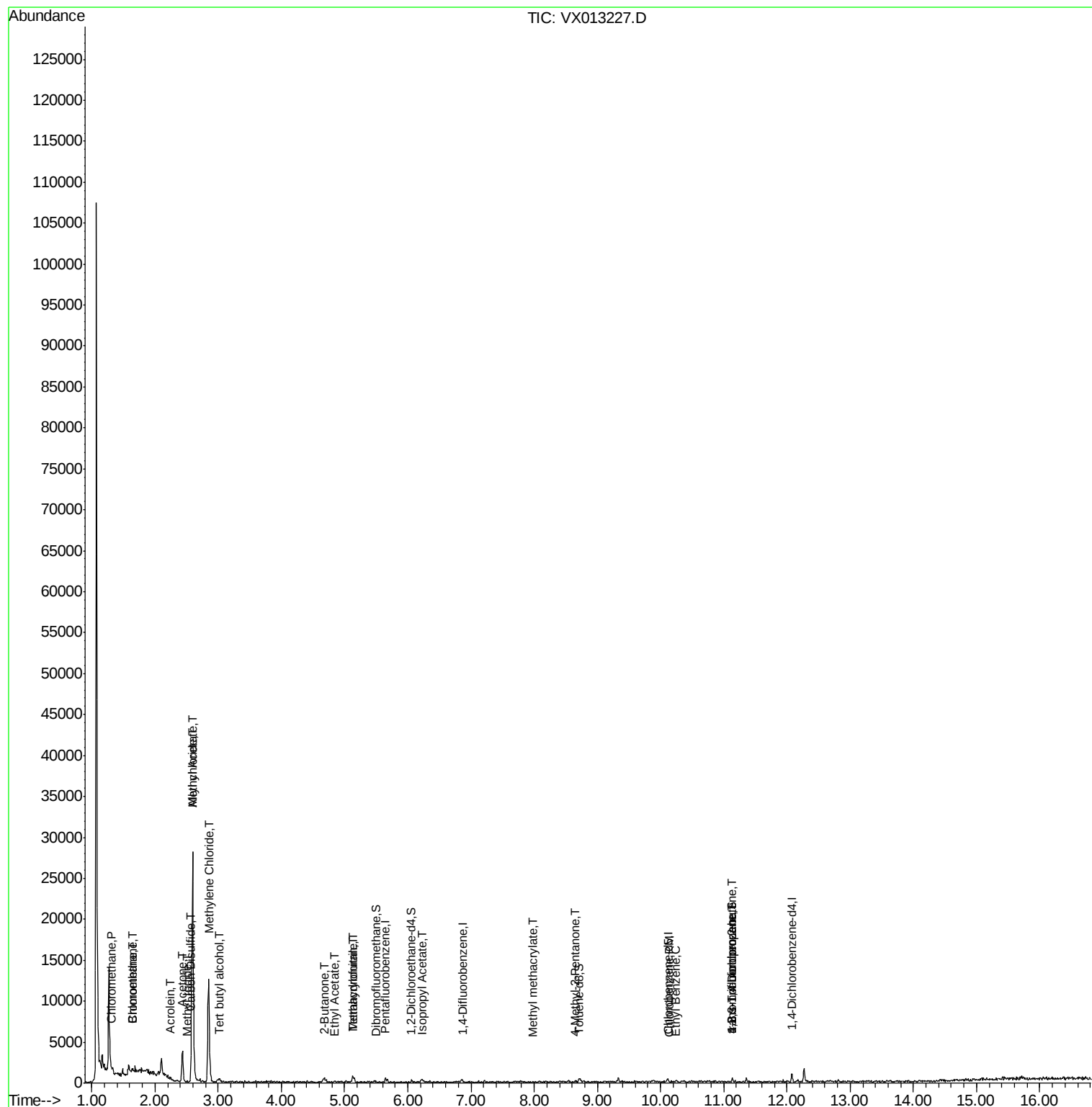
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	21	2.778	ug/l #	40
5) Bromomethane	1.65	94	144	21.746	ug/l #	73
6) Chloroethane	1.65	64	219	30.316	ug/l #	43
10) Methyl Iodide	2.51	142	23	4.930	ug/l #	40
11) Tert butyl alcohol	3.01	59	173	54.587	ug/l #	72
13) Acrolein	2.25	56	19	11.254	ug/l #	13
14) Allyl chloride	2.59	41	2941	159.393	ug/l #	67
16) Acetone	2.44	43	3909	576.603	ug/l	92
17) Carbon Disulfide	2.56	76	204	6.474	ug/l #	74
18) Methyl Acetate	2.59	43	7859	521.584	ug/l #	49
20) Methylene Chloride	2.84	84	6194	486.045	ug/l	93
25) 2-Butanone	4.67	43	250	27.497	ug/l #	45
29) Tetrahydrofuran	5.13	42	576	105.105	ug/l #	42
37) Ethyl Acetate	4.84	43	43	5.100	ug/l #	65
41) Methacrylonitrile	5.13	41	164	36.277	ug/l #	35
43) Isopropyl Acetate	6.22	43	293	20.929	ug/l #	59
48) Methyl methacrylate	7.98	41	23	3.324	ug/l #	11
51) 4-Methyl-2-Pentanone	8.64	43	78	9.141	ug/l #	33
65) Chlorobenzene	10.14	112	46	4.813	ug/l #	42
67) Ethyl Benzene	10.25	91	142	8.300	ug/l #	45
76) 1,2,3-Trichloropropane	11.14	75	27	4.463	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	27	12.264	ug/l #	10

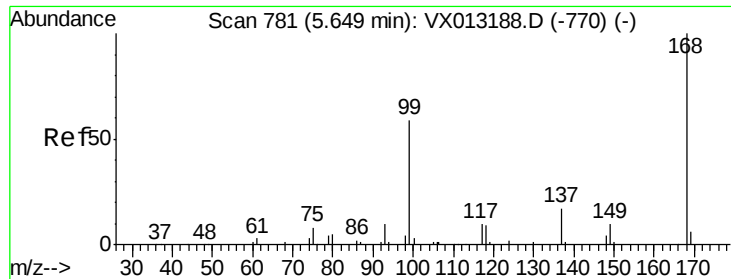
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 24 03:56:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.01 min

Lab File: VX013227.D

Acq: 25 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

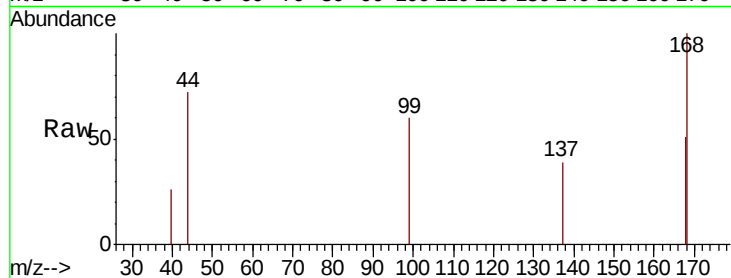
EB-01-102419

Tot Ion:168 Resp: 688

Ion Ratio Lower Upper

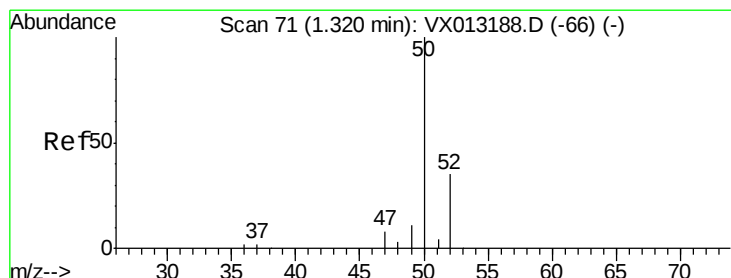
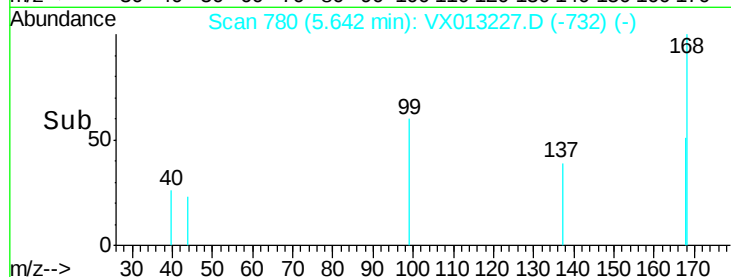
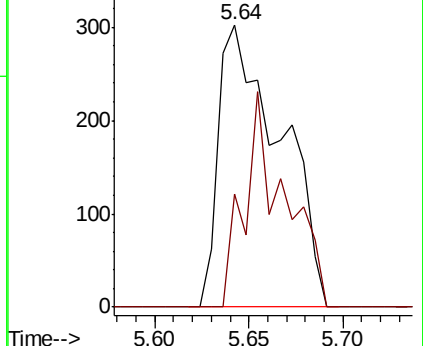
168 100

99 39.9 47.0 70.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 2.778 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX013227.D

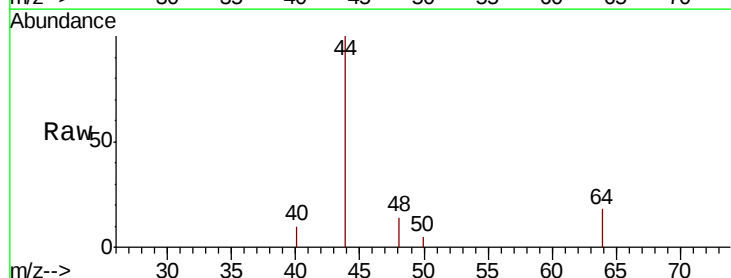
Acq: 25 Oct 2019 13:44

Tgt Ion: 50 Resp: 21

Ion Ratio Lower Upper

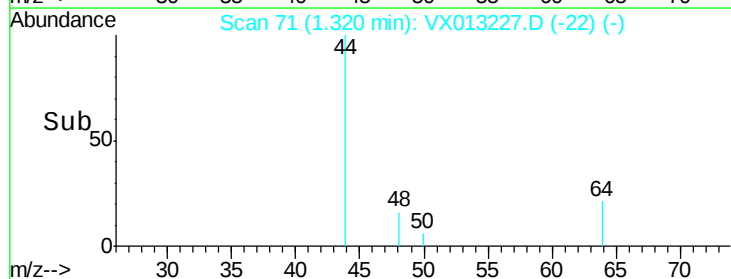
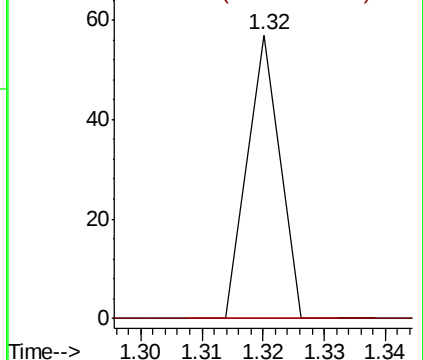
50 100

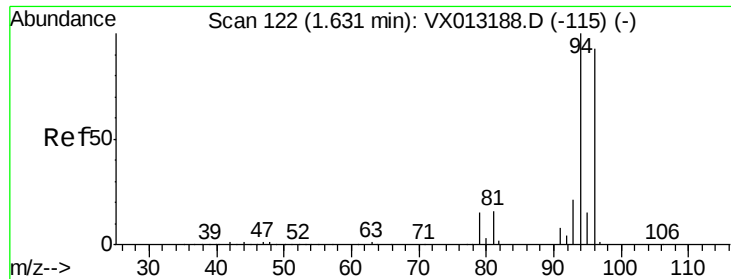
52 0.0 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 21.746 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013227.D

Acq: 25 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampled :

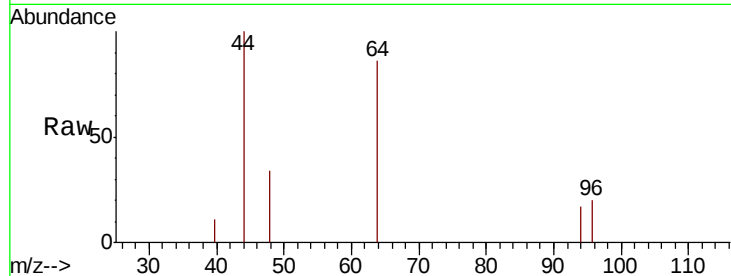
EB-01-102419

Tot Ion: 94 Resp: 144

Ion Ratio Lower Upper

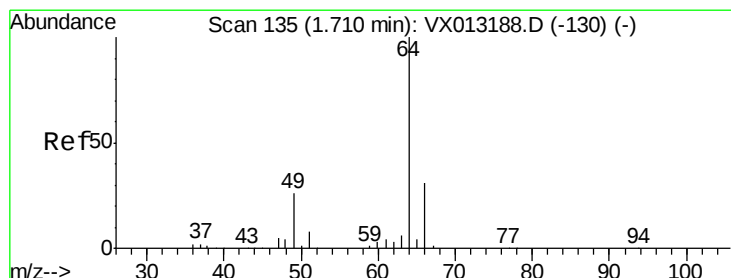
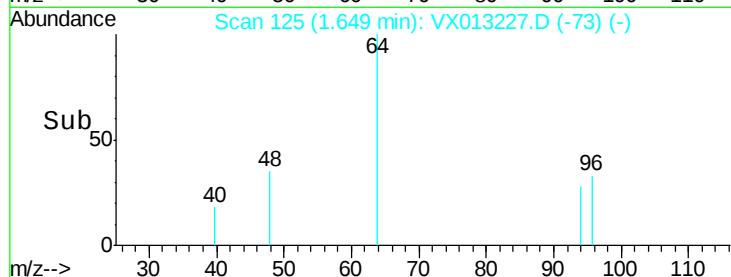
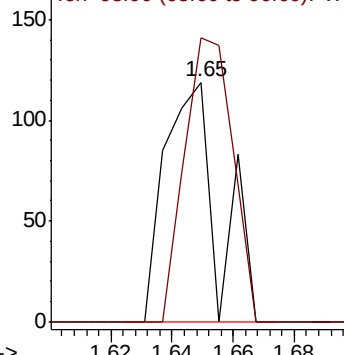
94 100

96 118.5 74.2 111.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 30.316 ug/l

RT: 1.65 min Scan# 125

Delta R.T. -0.06 min

Lab File: VX013227.D

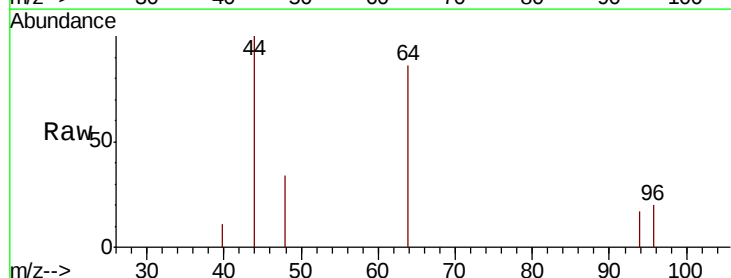
Acq: 25 Oct 2019 13:44

Tgt Ion: 64 Resp: 219

Ion Ratio Lower Upper

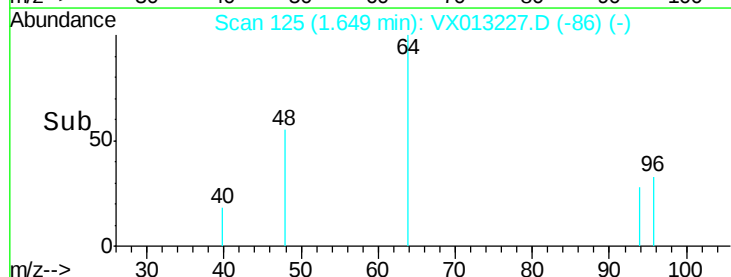
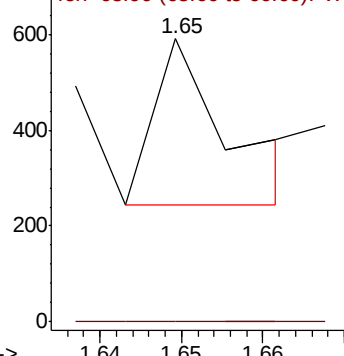
64 100

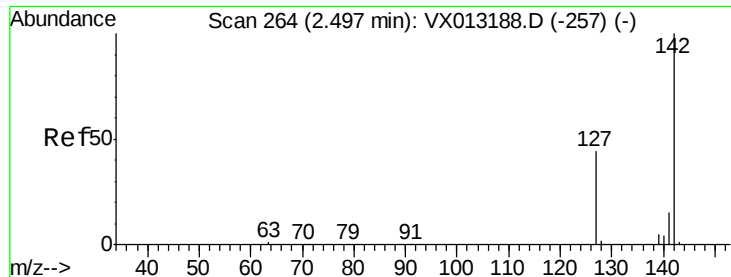
66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

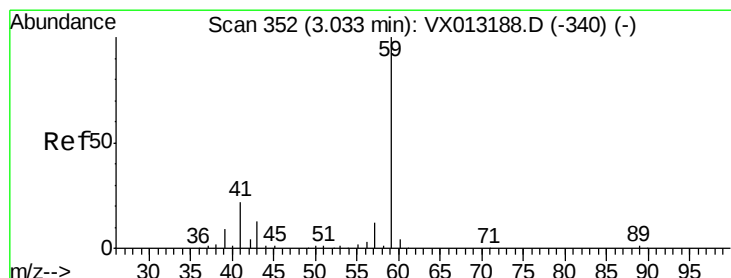
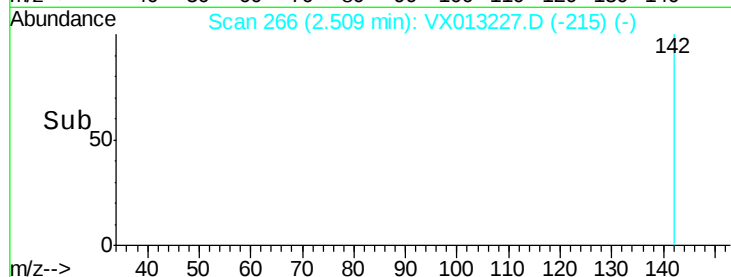
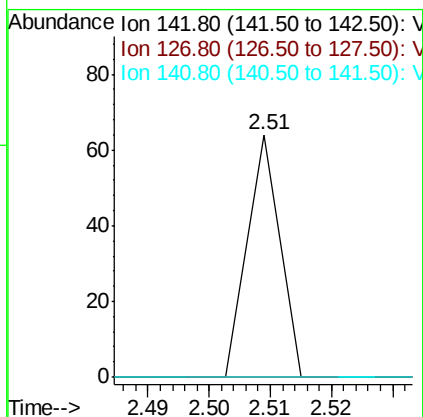
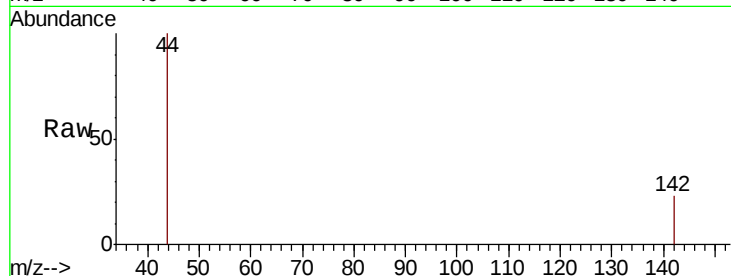




#10
Methyl Iodide
Concen: 4.930 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX013227.D
Acq: 25 Oct 2019 13:44

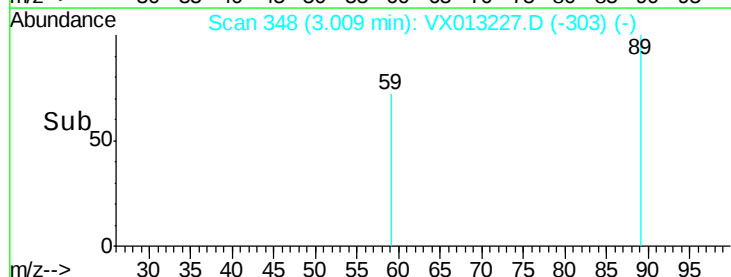
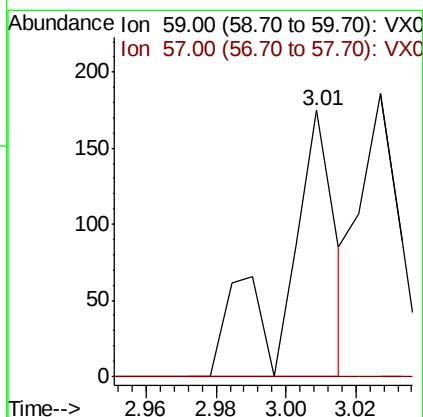
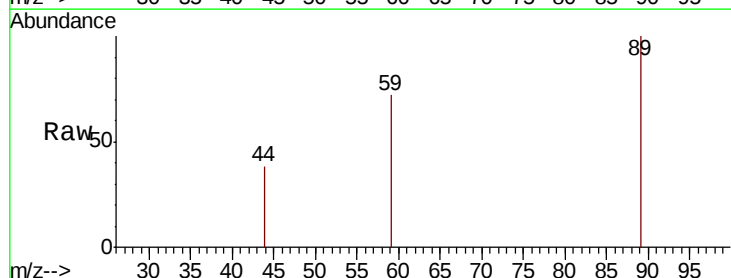
Instrument :
MSVOA_X
ClientSampled :
EB-01-102419

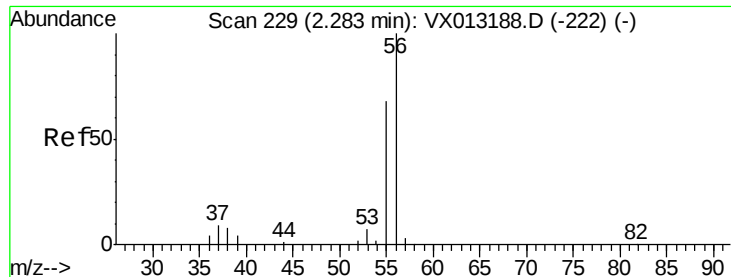
Tot Ion:142 Resp: 23
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 54.587 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.02 min
Lab File: VX013227.D
Acq: 25 Oct 2019 13:44

Tgt Ion: 59 Resp: 173
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#13

Acrolein

Concen: 11.254 ug/l

RT: 2.25 min Scan# 224

Delta R.T. -0.03 min

Lab File: VX013227.D

Acq: 25 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

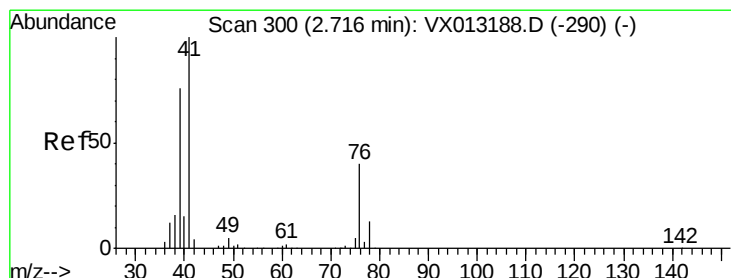
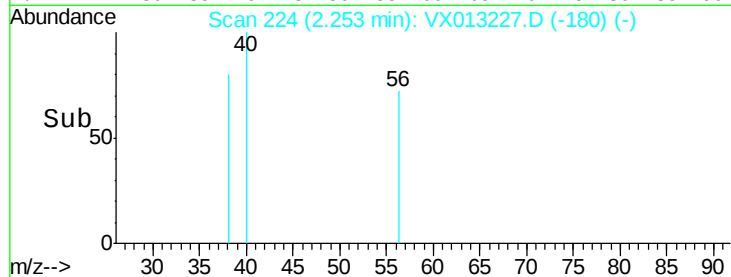
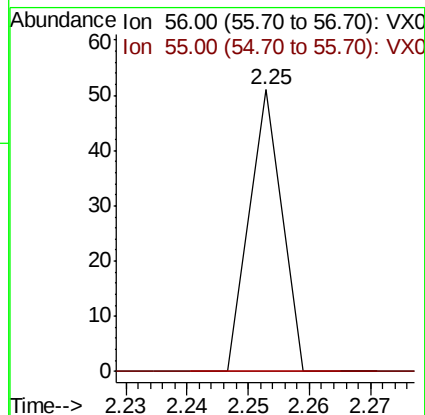
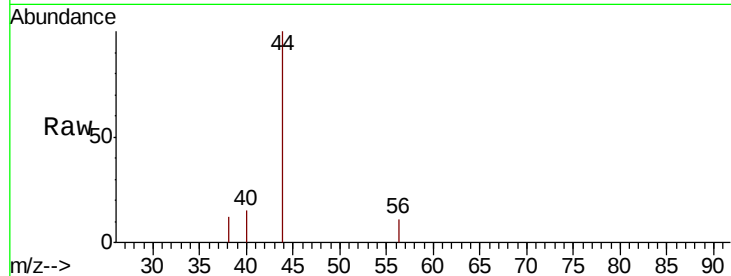
EB-01-102419

Tot Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 0.0 58.9 88.3#



#14

Allyl chloride

Concen: 159.393 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX013227.D

Acq: 25 Oct 2019 13:44

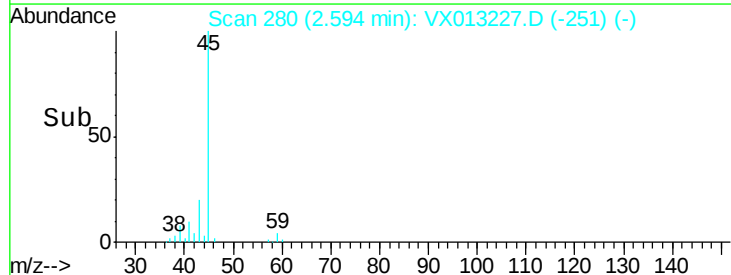
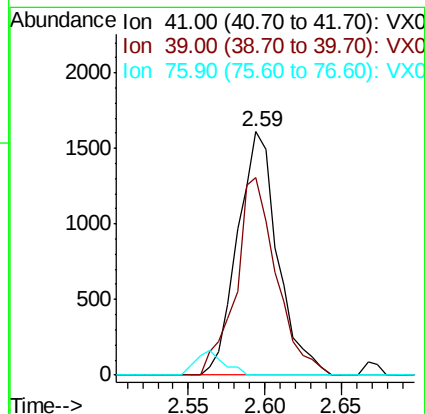
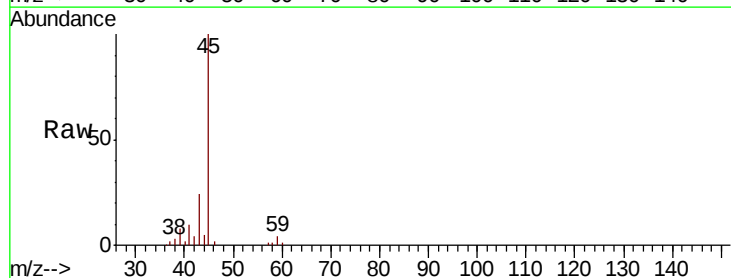
Tgt Ion: 41 Resp: 2941

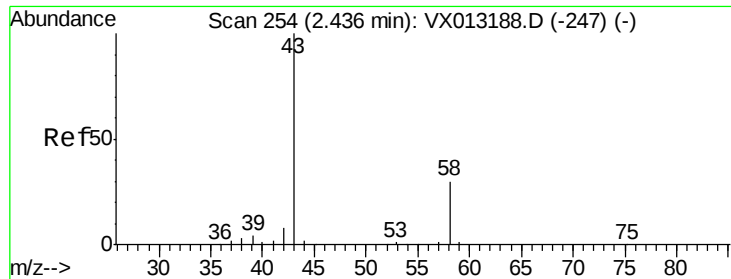
Ion Ratio Lower Upper

41 100

39 81.8 54.6 81.8

76 0.0 29.8 44.6#





#16

Acetone

Concen: 576.603 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013227.D

Acq: 25 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampled :

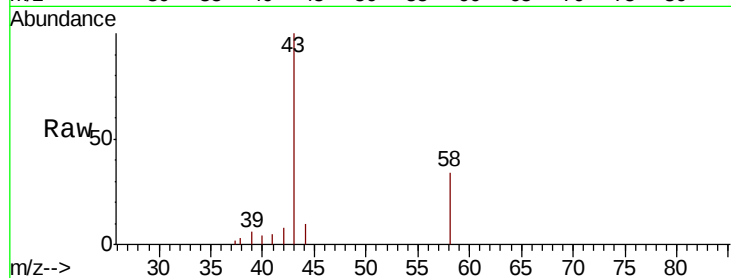
EB-01-102419

Tot Ion: 43 Resp: 3909

Ion Ratio Lower Upper

43 100

58 34.0 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

2000

1500

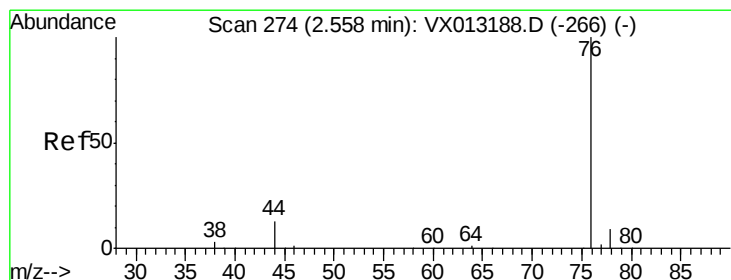
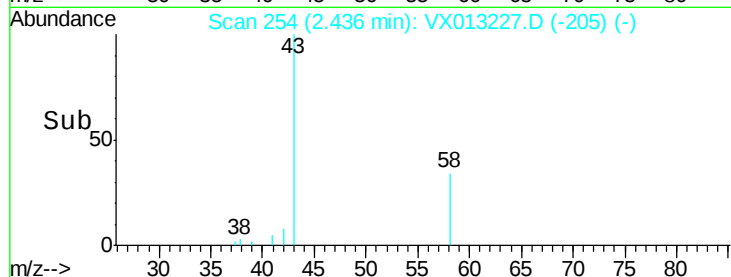
1000

500

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 6.474 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013227.D

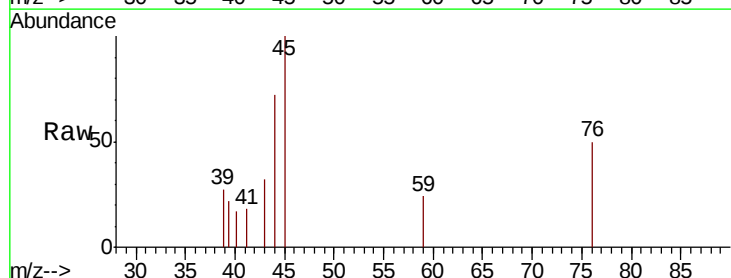
Acq: 25 Oct 2019 13:44

Tgt Ion: 76 Resp: 204

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

150

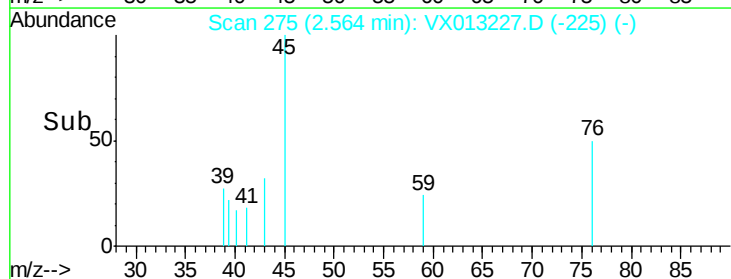
100

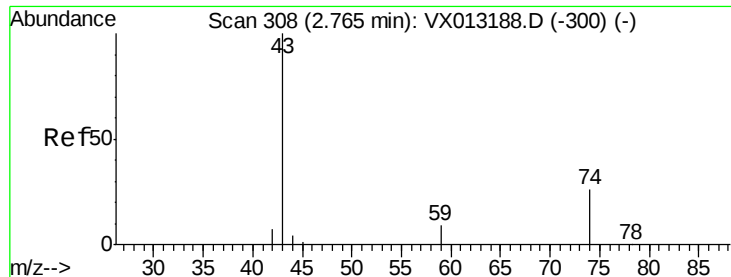
50

0

2.55 2.60

Time-->

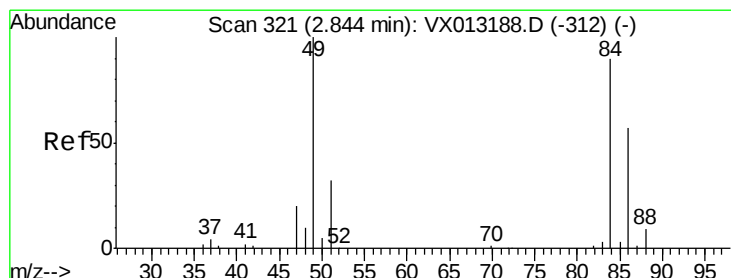
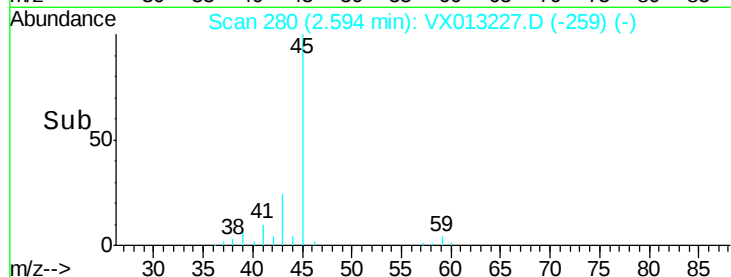
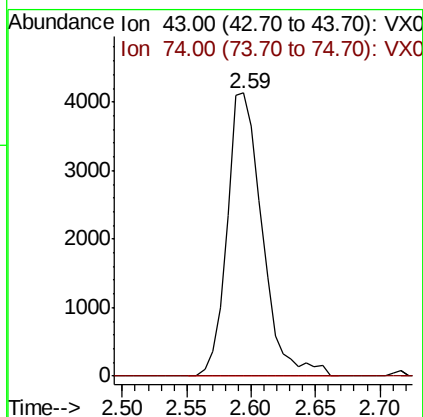
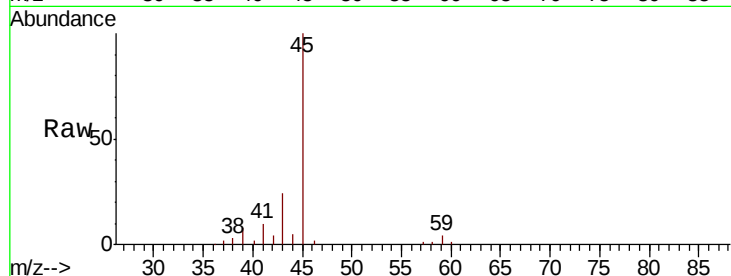




#18
Methyl Acetate
Concen: 521.584 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX013227.D
Acq: 25 Oct 2019 13:44

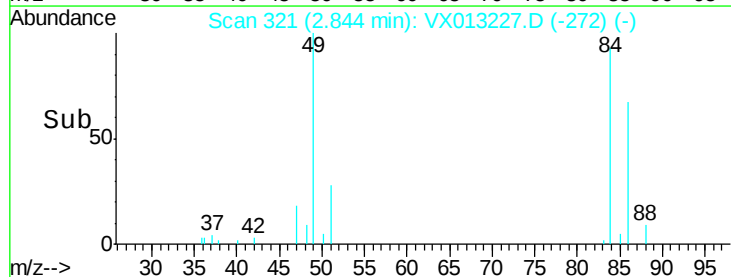
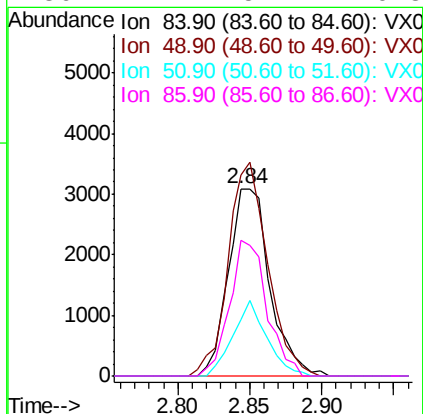
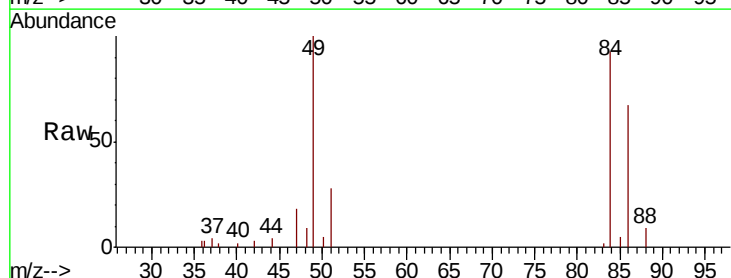
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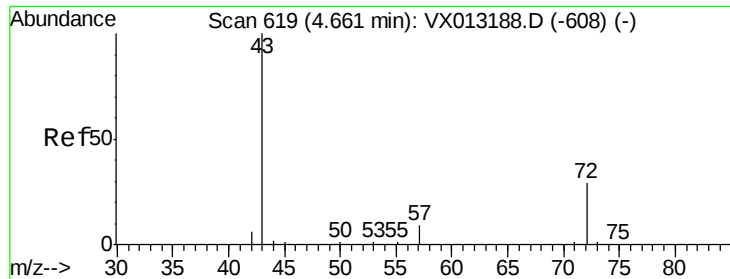
Tot Ion: 43 Resp: 7859
Ion Ratio Lower Upper
43 100
74 0.0 20.9 31.3#



#20
Methylene Chloride
Concen: 486.045 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX013227.D
Acq: 25 Oct 2019 13:44

Tgt Ion: 84 Resp: 6194
Ion Ratio Lower Upper
84 100
49 107.7 89.2 133.8
51 30.3 28.8 43.2
86 72.4 51.2 76.8





#25

2-Butanone

Concen: 27.497 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX013227.D

Acq: 25 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampled :

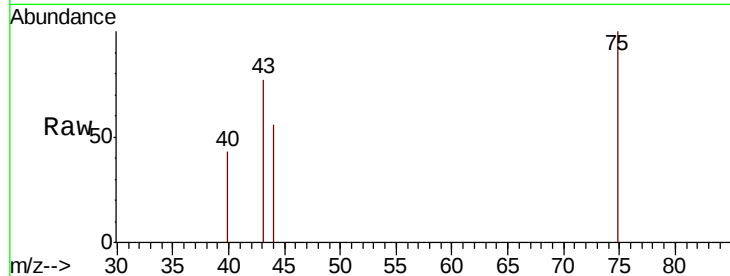
EB-01-102419

Tot Ion: 43 Resp: 250

Ion Ratio Lower Upper

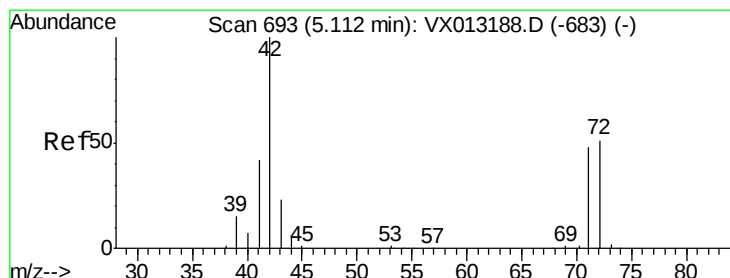
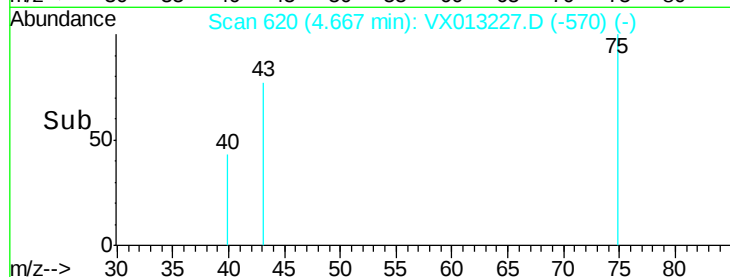
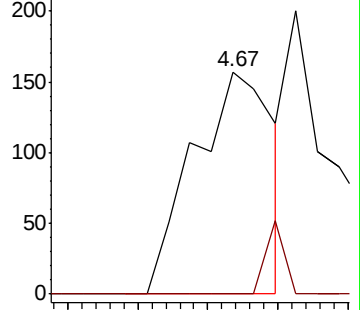
43 100

72 0.0 23.4 35.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 105.105 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.02 min

Lab File: VX013227.D

Acq: 25 Oct 2019 13:44

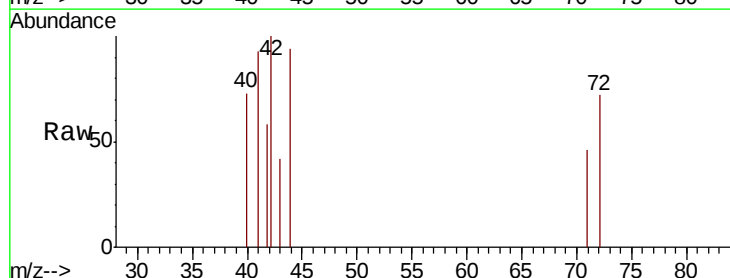
Tgt Ion: 42 Resp: 576

Ion Ratio Lower Upper

42 100

72 0.0 40.9 61.3#

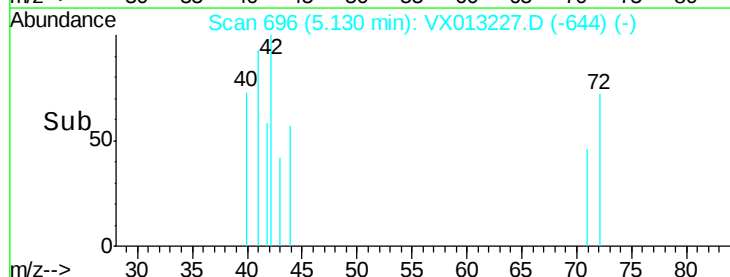
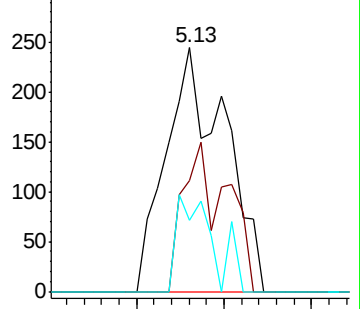
71 20.0 38.6 57.8#

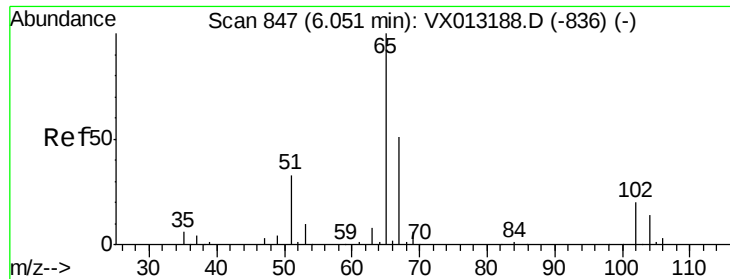


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

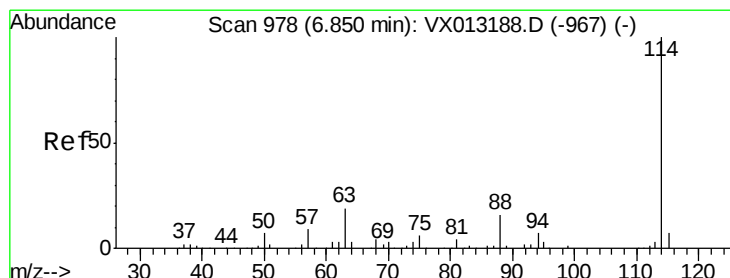
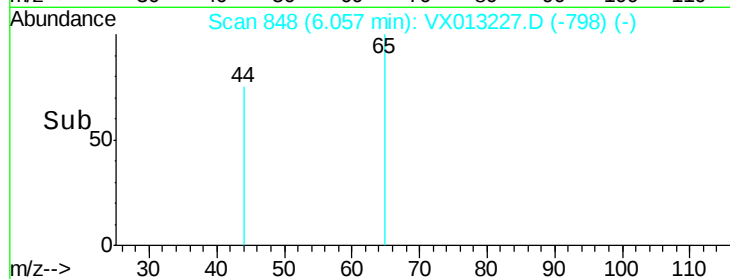
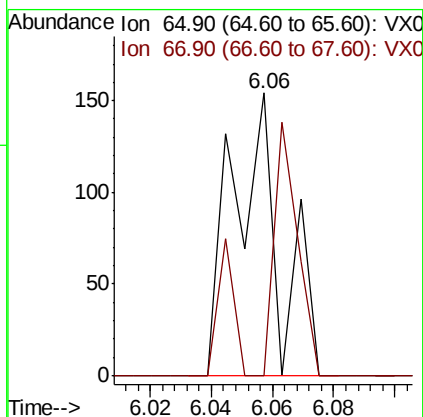
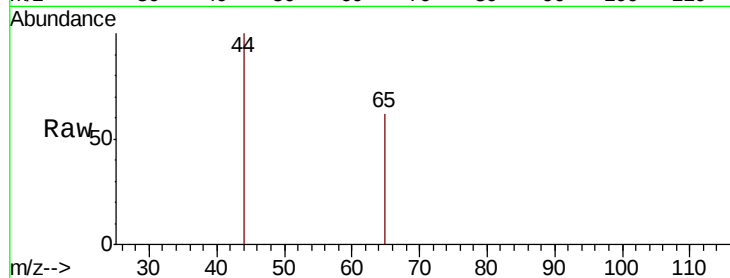




#33
 1,2-Dichloroethane-d4
 Concen: 11.466 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX013227.D
 Acq: 25 Oct 2019 13:44

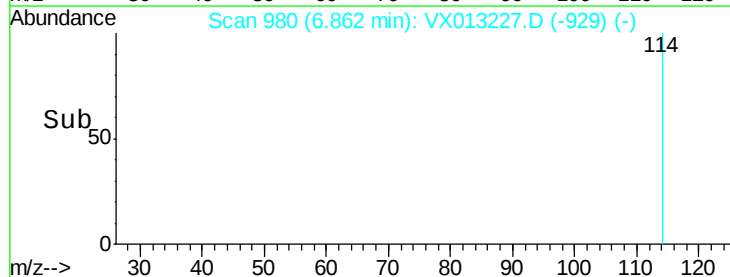
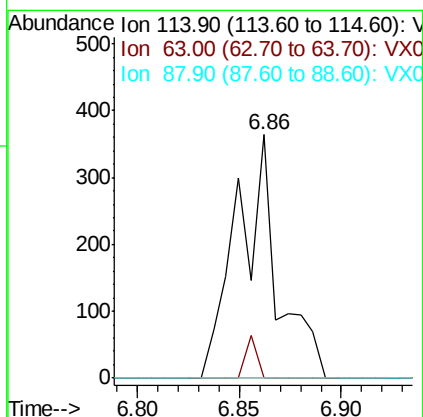
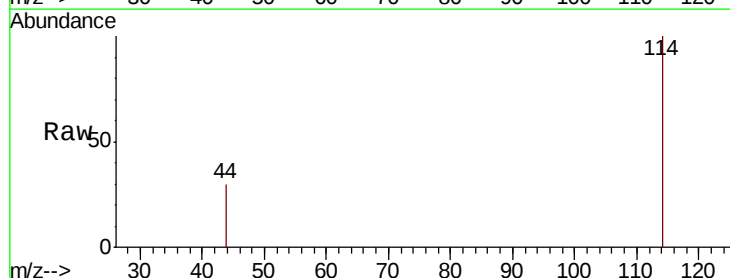
Instrument :
 MSVOA_X
 ClientSampleId :
 EB-01-102419

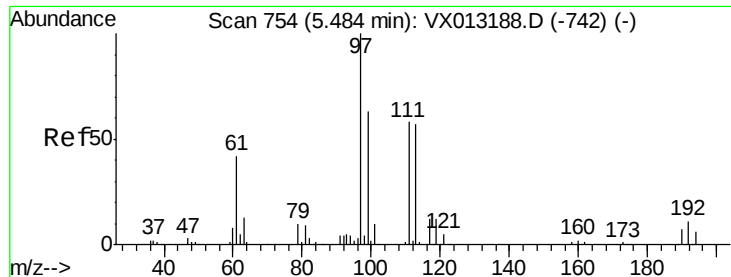
Tot Ion: 65 Resp: 165
 Ion Ratio Lower Upper
 65 100
 67 44.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 980
 Delta R.T. 0.01 min
 Lab File: VX013227.D
 Acq: 25 Oct 2019 13:44

Tgt Ion: 114 Resp: 506
 Ion Ratio Lower Upper
 114 100
 63 0.0 0.0 39.0
 88 0.0 0.0 32.0

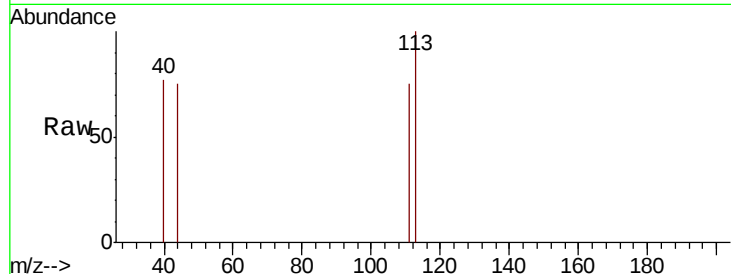




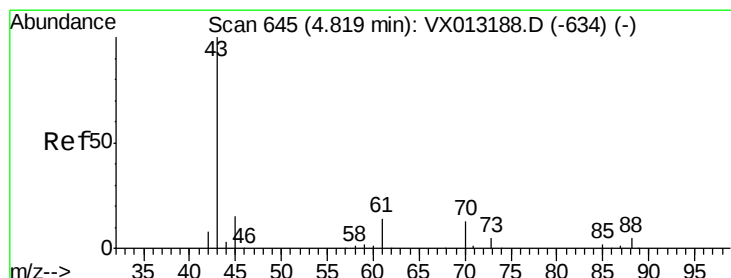
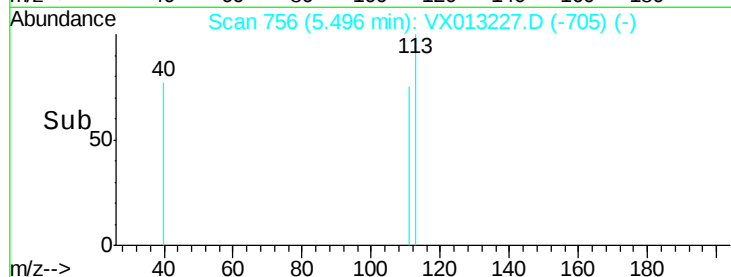
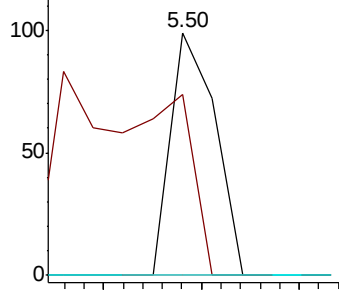
#35
 Dibromofluoromethane
 Concen: 11.165 ug/l
 RT: 5.50 min Scan# 756
 Delta R.T. 0.01 min
 Lab File: VX013227.D
 Acq: 25 Oct 2019 13:44

Instrument :
 MSVOA_X
 ClientSampleId :
 EB-01-102419

Tot Ion	Ratio	Lower	Upper
113	100		
111	0.0	80.3	120.5#
192	0.0	15.9	23.9#

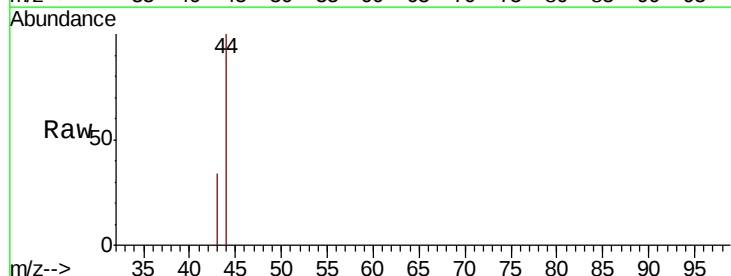


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

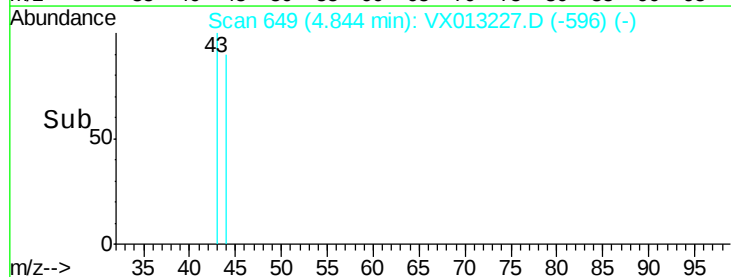
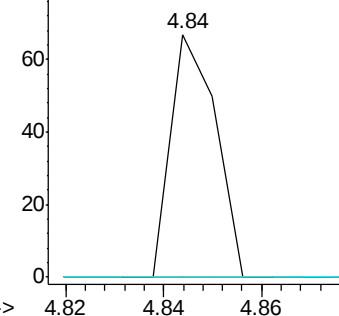


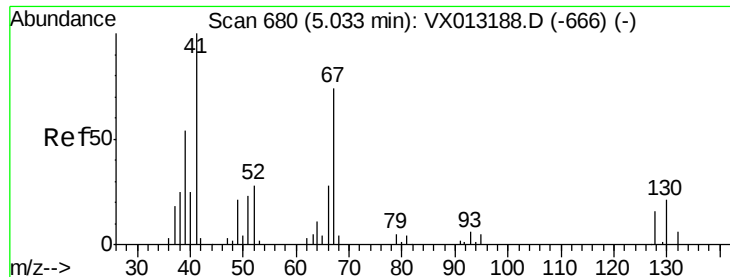
#37
 Ethyl Acetate
 Concen: 5.100 ug/l
 RT: 4.84 min Scan# 649
 Delta R.T. 0.02 min
 Lab File: VX013227.D
 Acq: 25 Oct 2019 13:44

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.1	18.1#
70	0.0	10.4	15.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 70.00 (69.70 to 70.70): VX0

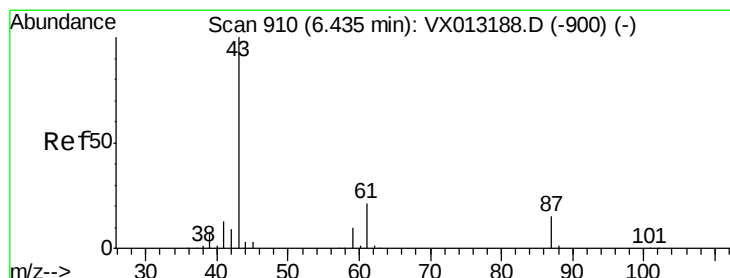
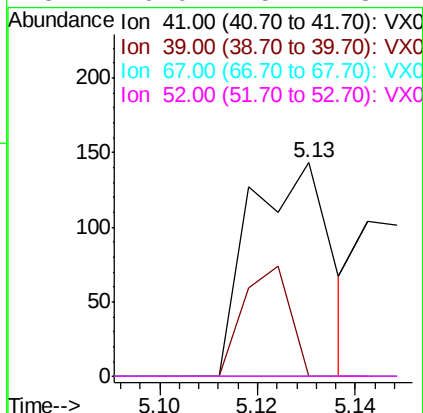
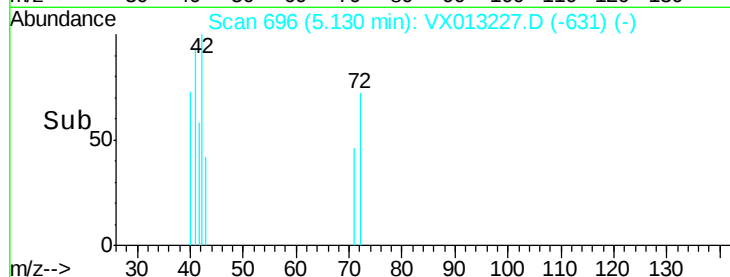
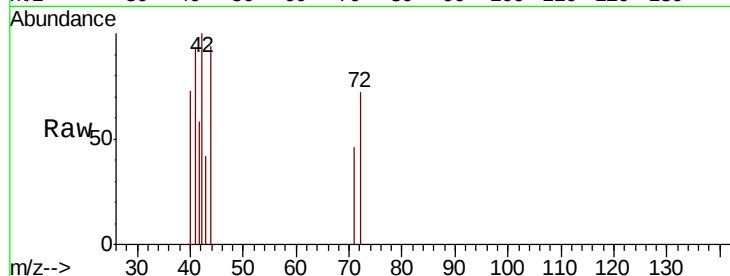




#41
Methacrylonitrile
Concen: 36.277 ug/l
RT: 5.13 min Scan# 696
Delta R.T. 0.10 min
Lab File: VX013227.D
Acq: 25 Oct 2019 13:44

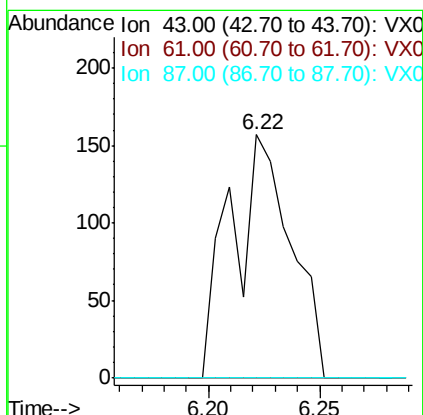
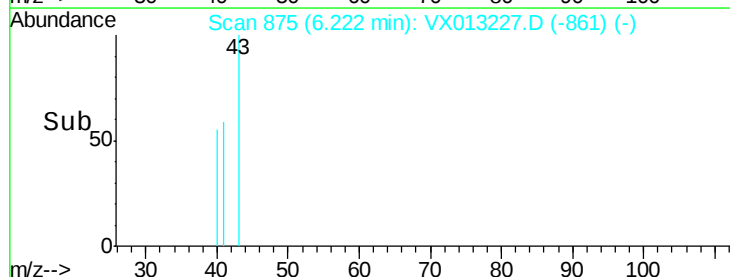
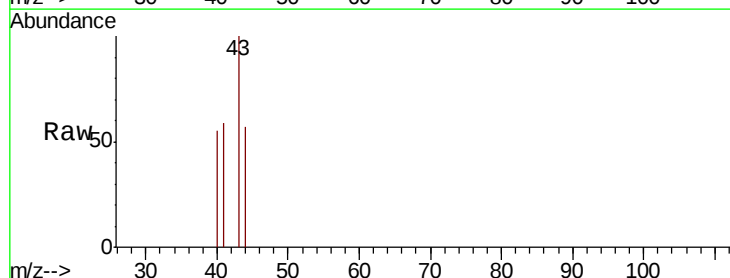
Instrument :
MSVOA_X
ClientSampled :
EB-01-102419

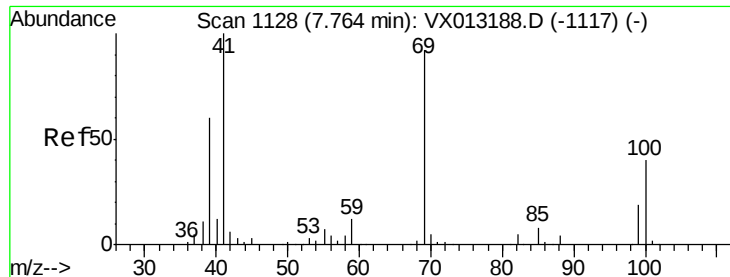
Tot Ion	41	Resp	164
Ion	Ratio	Lower	Upper
41	100		
39	29.9	45.2	67.8#
67	0.0	61.3	91.9#
52	0.0	25.1	37.7#



#43
Isopropyl Acetate
Concen: 20.929 ug/l
RT: 6.22 min Scan# 875
Delta R.T. -0.21 min
Lab File: VX013227.D
Acq: 25 Oct 2019 13:44

Tgt Ion	43	Resp	293
Ion	Ratio	Lower	Upper
43	100		
61	0.0	17.0	25.4#
87	0.0	12.1	18.1#





#48

Methvl methacrylate

Concen: 3.324 ug/l

RT: 7.98 min Scan# 1163

Delta R.T. 0.21 min

Lab File: VX013227.D

Acq: 25 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

EB-01-102419

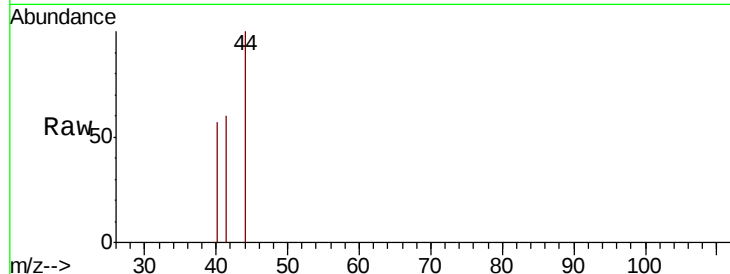
Tot Ion: 41 Resp: 23

Ion Ratio Lower Upper

41 100

69 0.0 72.0 108.0#

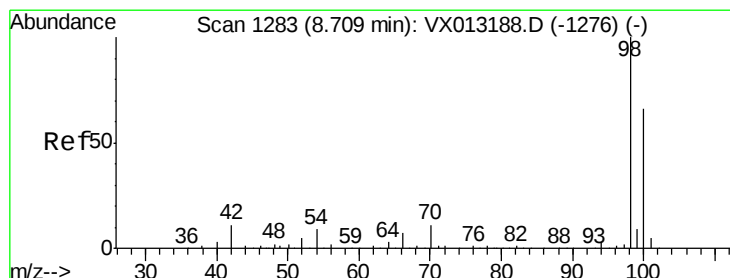
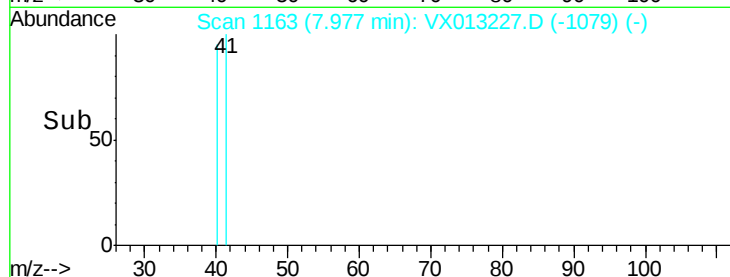
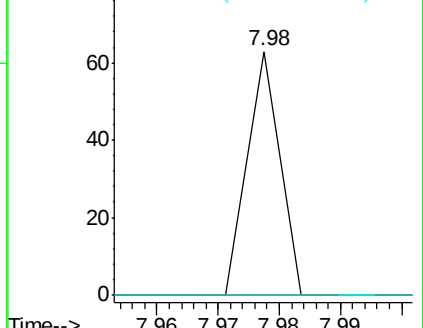
39 0.0 47.4 71.0#



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: 16.020 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013227.D

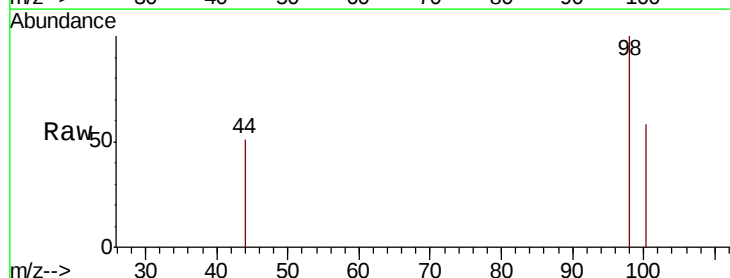
Acq: 25 Oct 2019 13:44

Tgt Ion: 98 Resp: 335

Ion Ratio Lower Upper

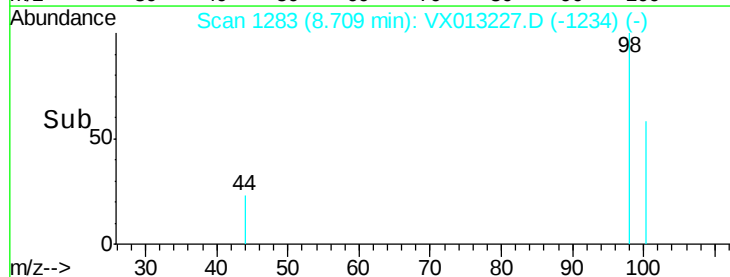
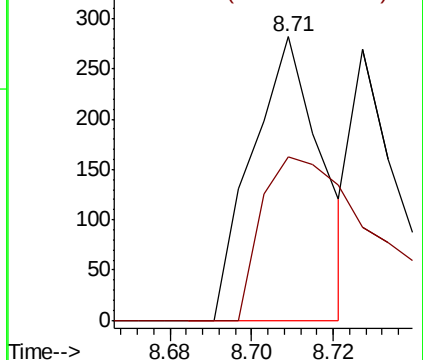
98 100

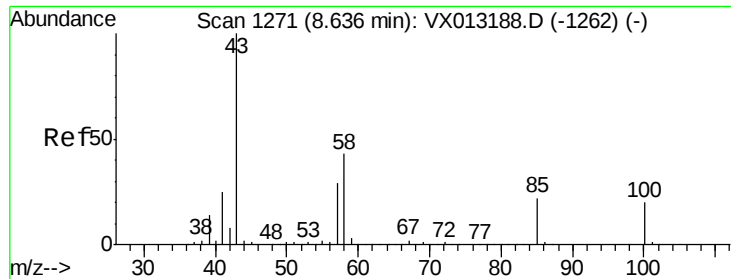
100 88.1 53.3 79.9#



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 9.141 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX013227.D

Acq: 25 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

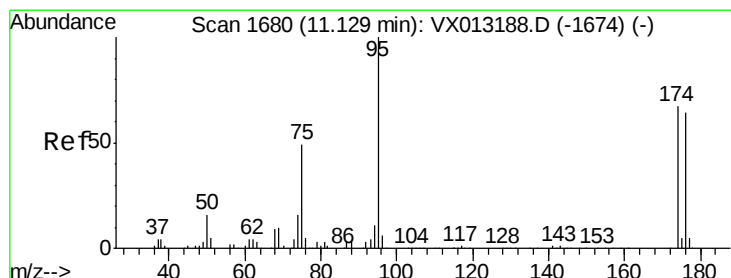
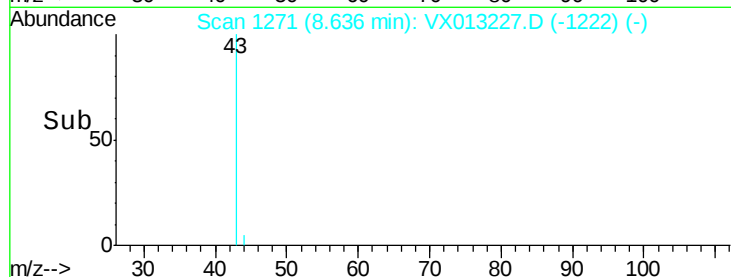
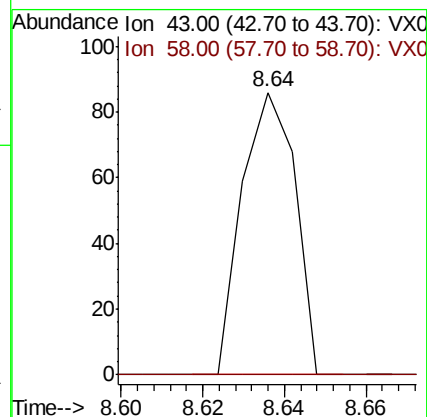
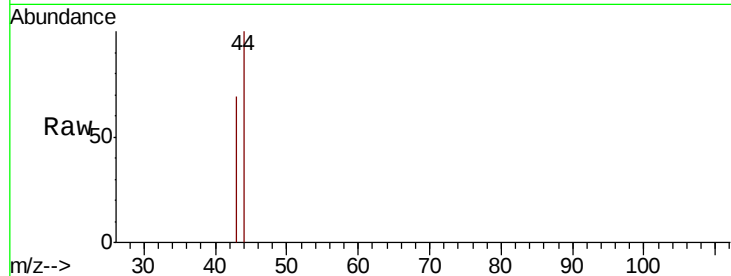
EB-01-102419

Tot Ion: 43 Resp: 78

Ion Ratio Lower Upper

43 100

58 0.0 33.9 50.9#



#62

4-Bromofluorobenzene

Concen: 20.298 ug/l

RT: 11.14 min Scan# 1682

Delta R.T. 0.01 min

Lab File: VX013227.D

Acq: 25 Oct 2019 13:44

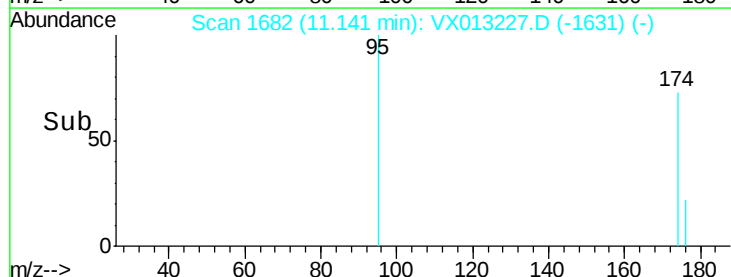
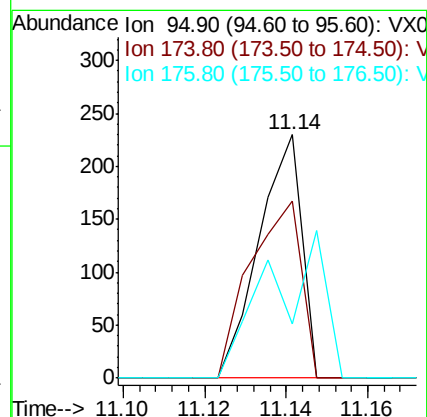
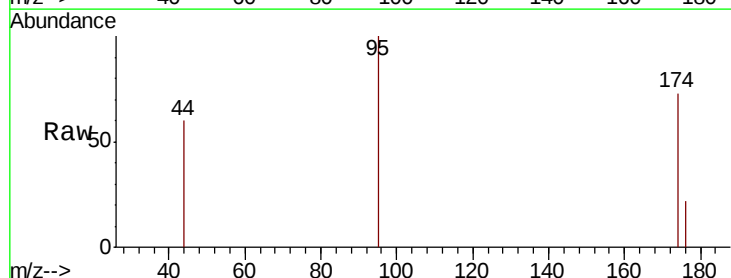
Tgt Ion: 95 Resp: 168

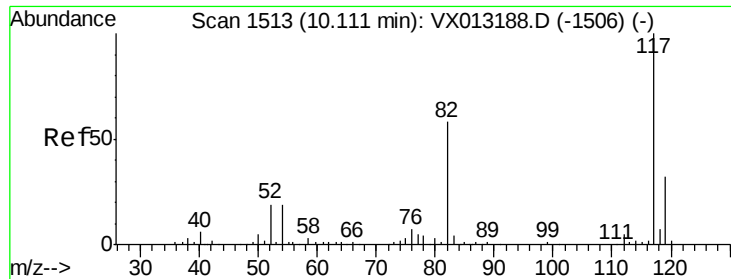
Ion Ratio Lower Upper

95 100

174 86.9 0.0 152.4

176 77.4 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1514

Delta R.T. 0.01 min

Lab File: VX013227.D

Acq: 25 Oct 2019 13:44

Instrument :

MSVOA_X

ClientSampleId :

EB-01-102419

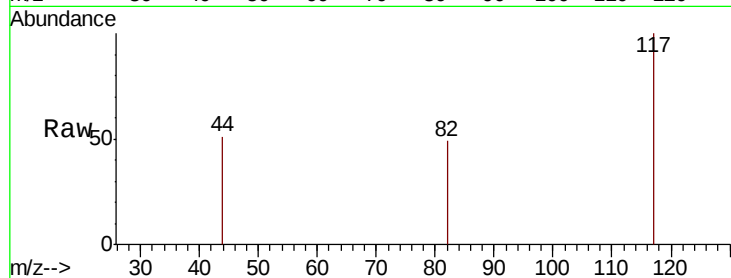
Tot Ion:117 Resp: 273

Ion Ratio Lower Upper

117 100

82 48.8 46.5 69.7

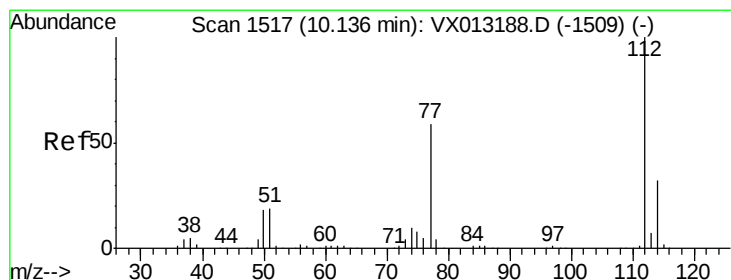
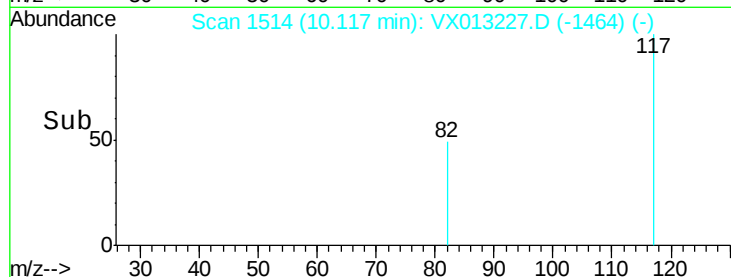
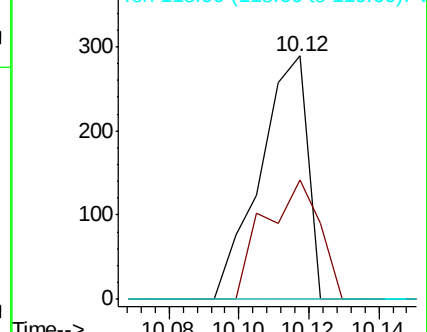
119 0.0 25.2 37.8#



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



#65

Chlorobenzene

Concen: 4.813 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX013227.D

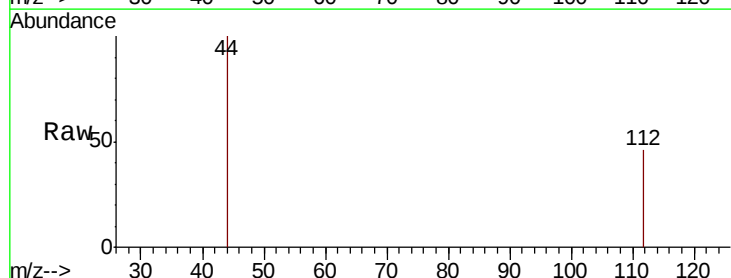
Acq: 25 Oct 2019 13:44

Tgt Ion:112 Resp: 46

Ion Ratio Lower Upper

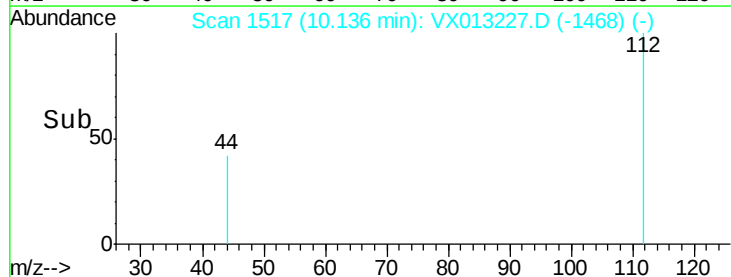
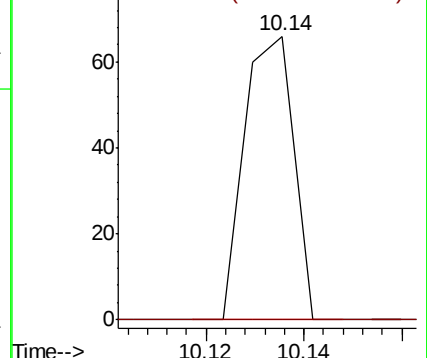
112 100

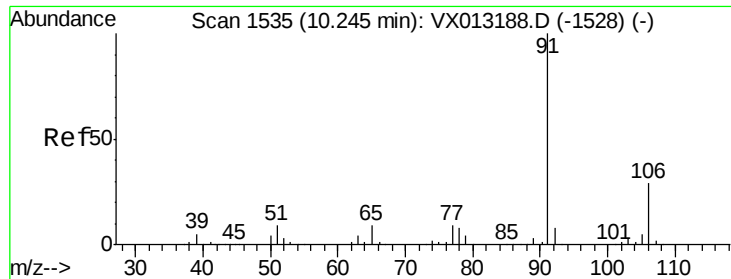
114 0.0 25.8 38.8#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

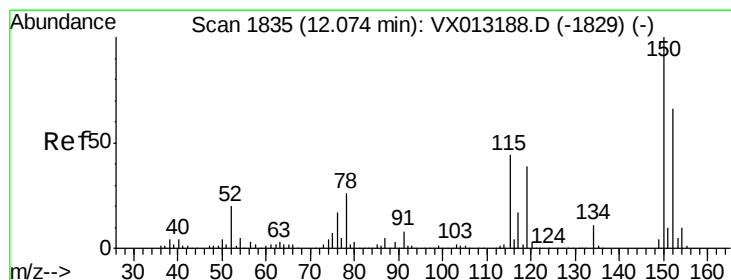
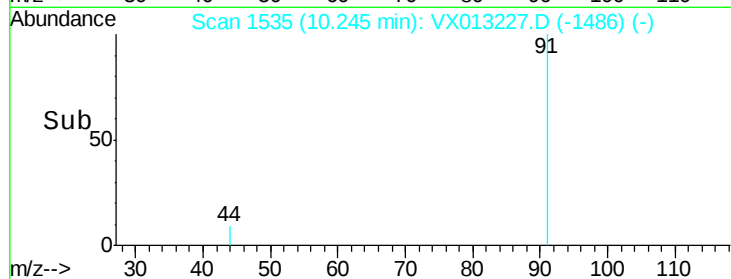
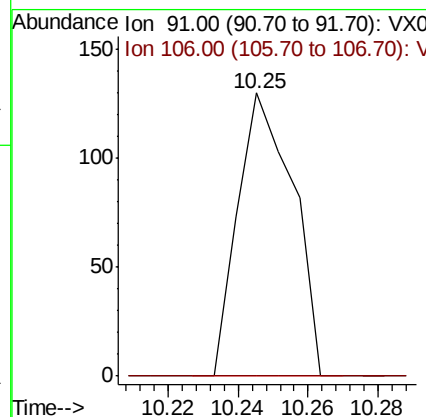
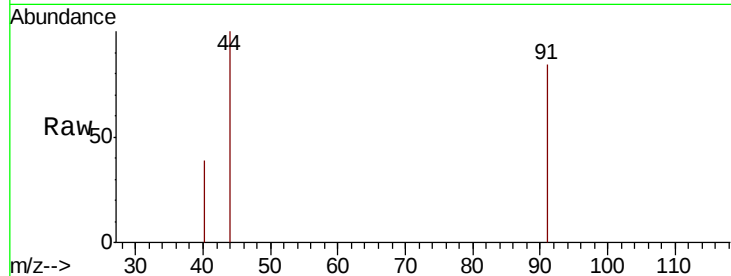




#67
Ethyl Benzene
Concen: 8.300 ug/l
RT: 10.25 min Scan# 1535
Delta R.T. -0.00 min
Lab File: VX013227.D
Acq: 25 Oct 2019 13:44

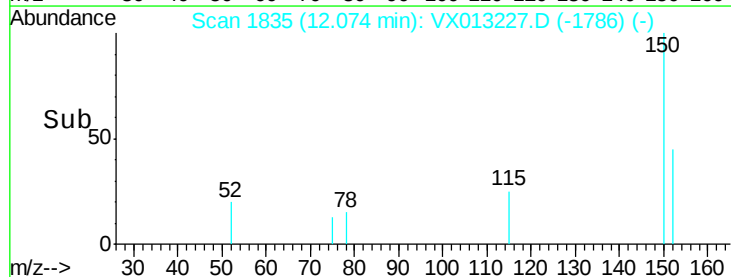
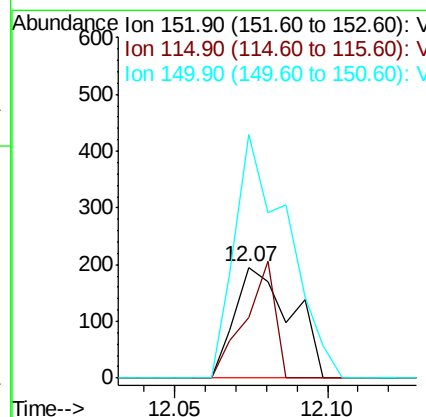
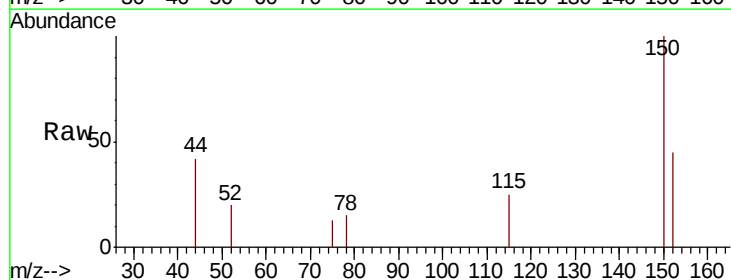
Instrument :
MSVOA_X
ClientSampled :
EB-01-102419

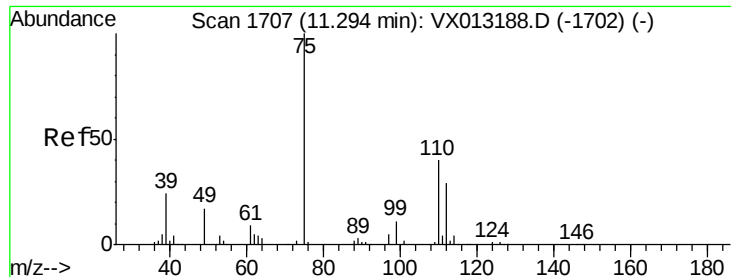
Tot Ion: 91 Resp: 142
Ion Ratio Lower Upper
91 100
106 0.0 23.5 35.3#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013227.D
Acq: 25 Oct 2019 13:44

Tgt Ion: 152 Resp: 251
Ion Ratio Lower Upper
152 100
115 55.0 46.6 139.8
150 204.8 0.0 354.0

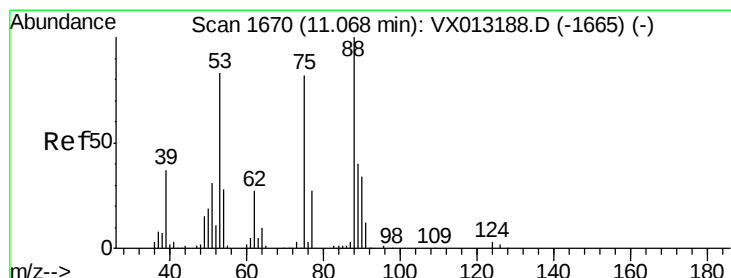
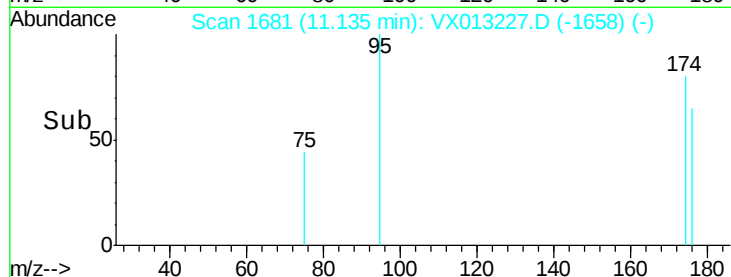
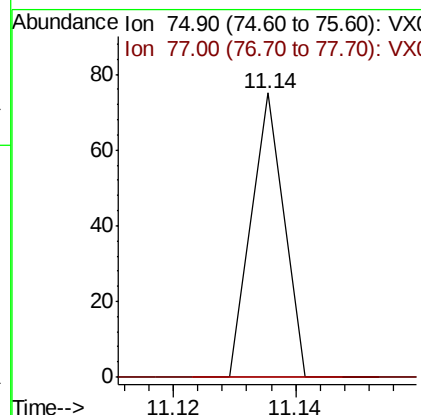
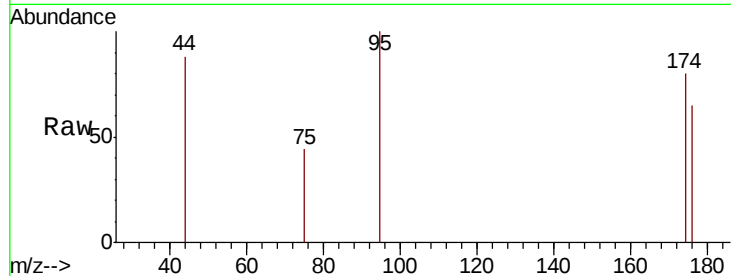




#76
 1,2,3-Trichloropropane
 Concen: 4.463 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.16 min
 Lab File: VX013227.D
 Acq: 25 Oct 2019 13:44

Instrument :
 MSVOA_X
 ClientSampleId :
 EB-01-102419

Tot Ion: 75 Resp: 27
 Ion Ratio Lower Upper
 75 100
 77 0.0 19.1 57.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 12.264 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.07 min
 Lab File: VX013227.D
 Acq: 25 Oct 2019 13:44

Tgt Ion: 75 Resp: 27
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.9 116.9#
 89 0.0 37.3 55.9#

