

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082419\
 Data File : VX011837.D
 Acq On : 24 Aug 2019 22:30
 Operator : JC/SP
 Sample : K4487-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-PILE-082219

Quant Time: Aug 26 04:14:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	472341	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	622660	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	590675	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	326757	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	193762	40.84	ug/l	0.00
Spiked Amount			Recovery	=	81.68%	
35) Dibromofluoromethane	5.49	113	185531	46.08	ug/l	0.00
Spiked Amount			Recovery	=	92.16%	
50) Toluene-d8	8.71	98	711412	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
62) 4-Bromofluorobenzene	11.13	95	263530	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	

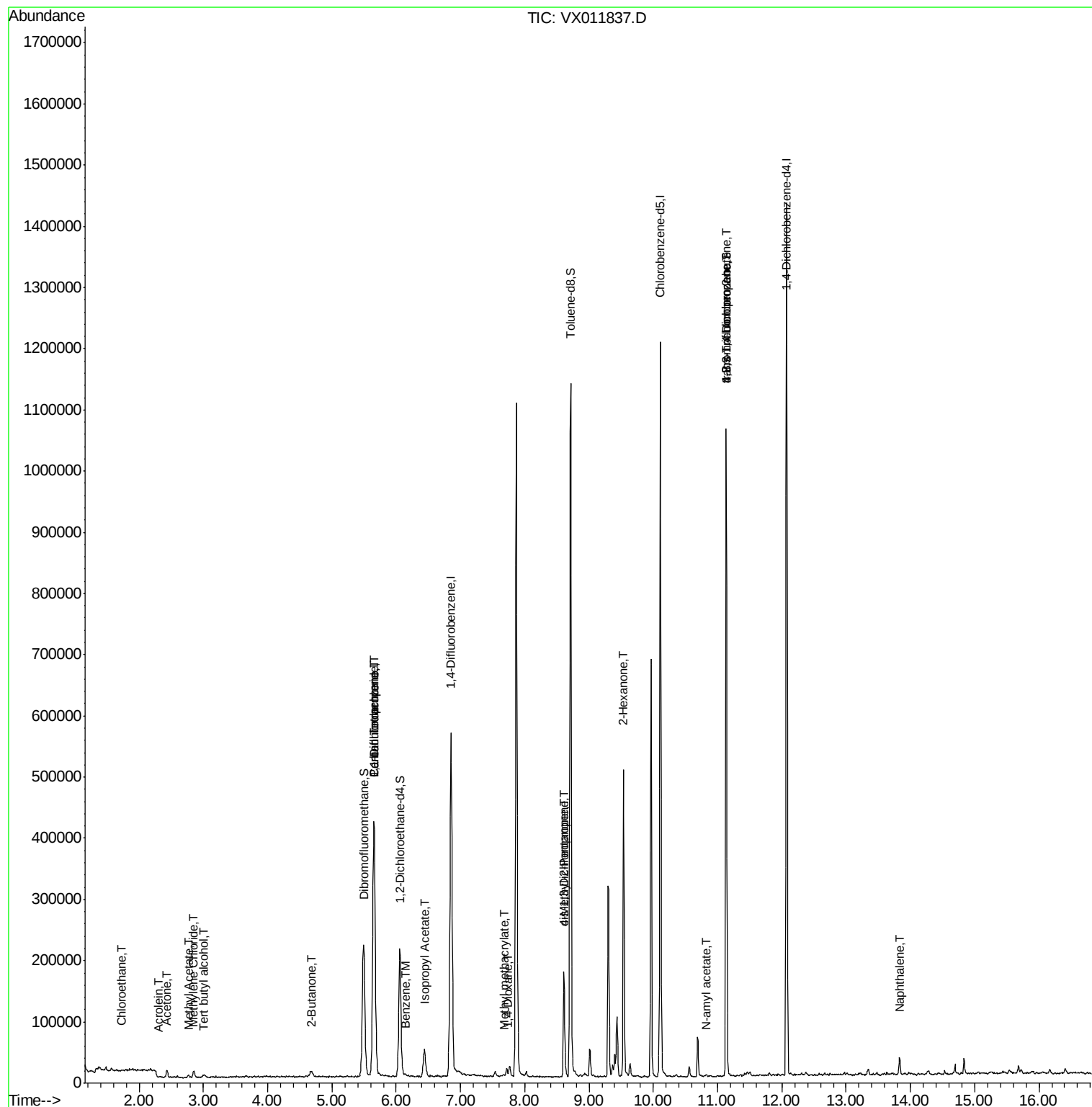
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.71	64	617	0.273	ug/l #	50
11) Tert butyl alcohol	3.01	59	4401	4.694	ug/l #	66
13) Acrolein	2.30	56	177	0.488	ug/l #	16
16) Acetone	2.43	43	13990	6.778	ug/l	98
18) Methyl Acetate	2.76	43	5122	0.915	ug/l #	81
20) Methylene Chloride	2.85	84	5854	1.387	ug/l	92
25) 2-Butanone	4.68	43	3460	1.168	ug/l #	76
36) 1,1-Dichloropropene	5.65	75	24162	4.948	ug/l #	51
38) Carbon Tetrachloride	5.66	117	37068	6.699	ug/l #	16
40) Benzene	6.14	78	3223	0.213	ug/l	96
43) Isopropyl Acetate	6.44	43	61269	7.326	ug/l	98
48) Methyl methacrylate	7.68	41	3429	0.824	ug/l #	16
49) 1,4-Dioxane	7.74	88	43	0.373	ug/l #	26
51) 4-Methyl-2-Pentanone	8.61	43	56626	10.276	ug/l #	47
54) cis-1,3-Dichloropropene	8.61	75	28961	5.019	ug/l #	58
59) 2-Hexanone	9.54	43	52469	12.405	ug/l #	53
74) N-amyl acetate	10.82	43	1955	0.256	ug/l #	60
76) 1,2,3-Trichloropropane	11.13	75	118289	20.631	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	118289	62.219	ug/l #	11
95) Naphthalene	13.83	128	20211	0.989	ug/l	96

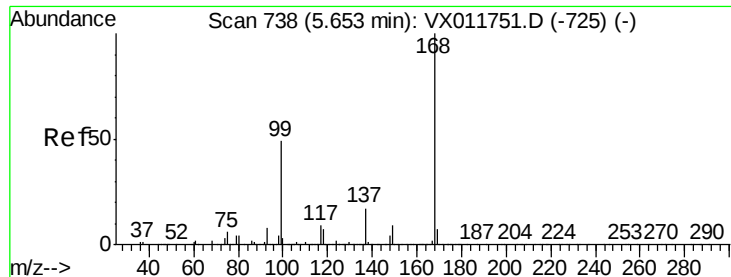
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.00 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

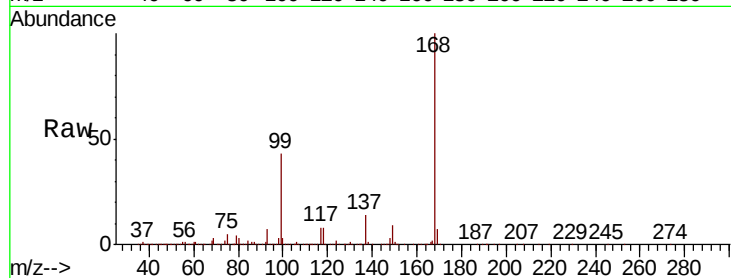
WC-PILE-082219

Tgt Ion:168 Resp: 472341

Ion Ratio Lower Upper

168 100

99 43.0 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

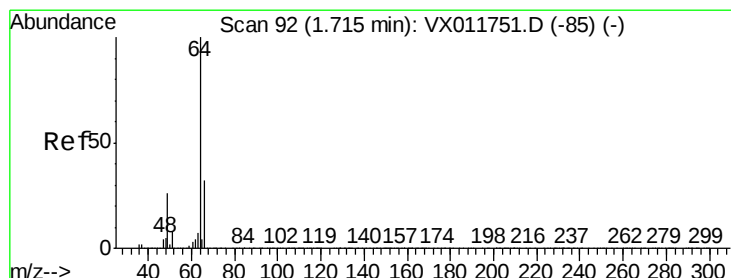
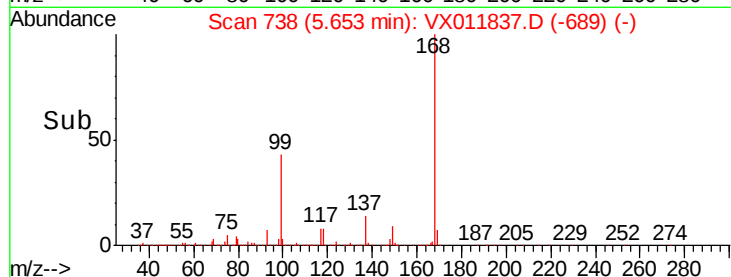
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 0.273 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.00 min

Lab File: VX011837.D

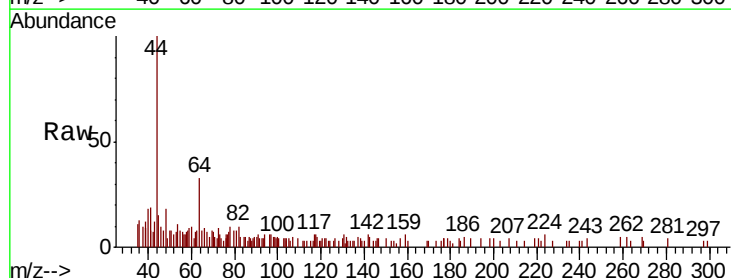
Acq: 24 Aug 2019 22:30

Tgt Ion: 64 Resp: 617

Ion Ratio Lower Upper

64 100

66 3.6 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

800

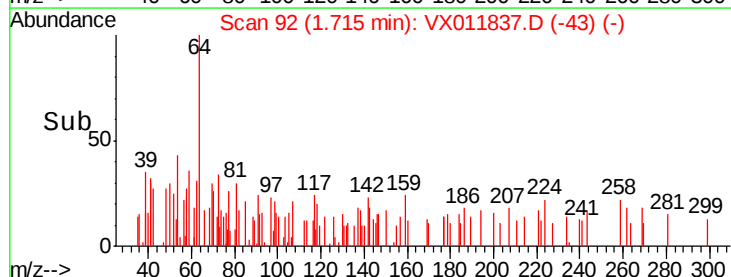
600

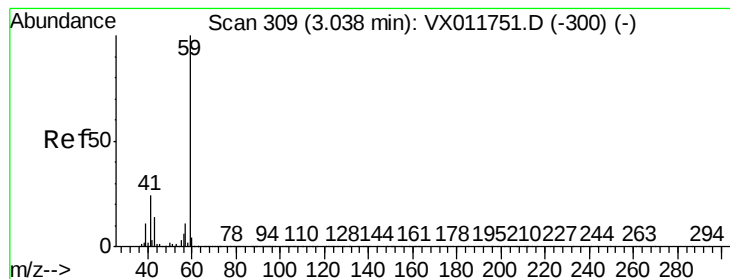
400

200

0

Time-->



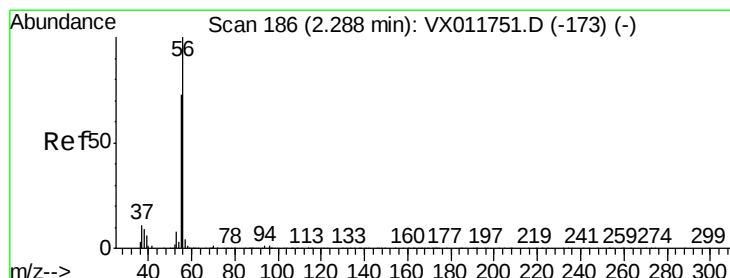
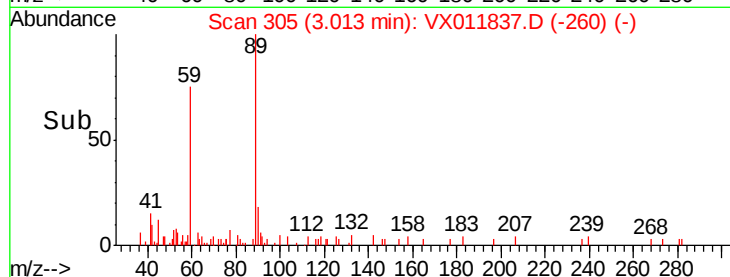
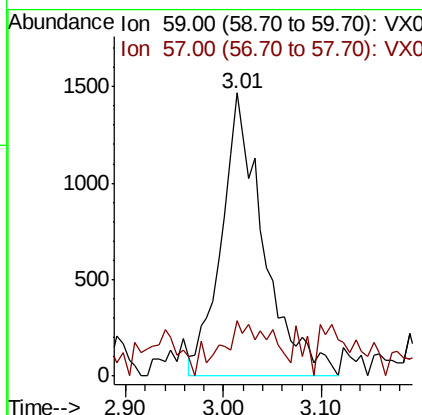
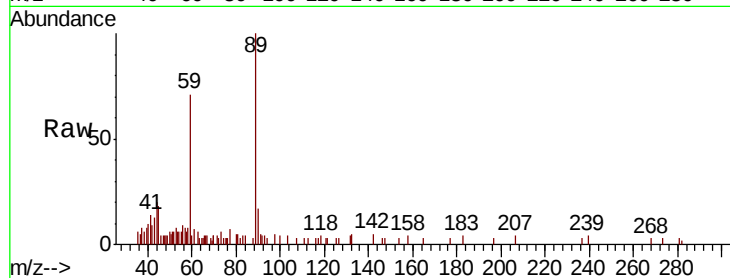


#11

Tert butyl alcohol
 Concen: 4.694 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.02 min
 Lab File: VX011837.D
 Acq: 24 Aug 2019 22:30

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-PILE-082219

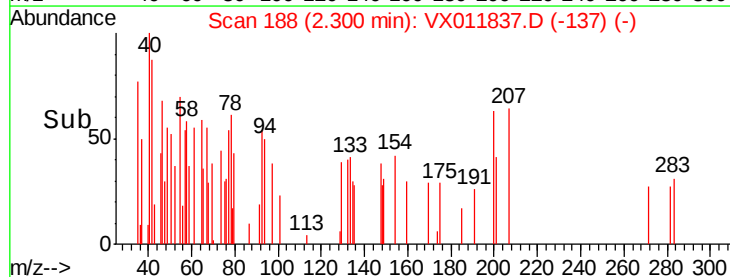
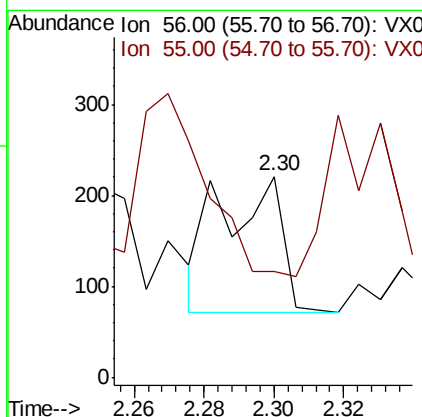
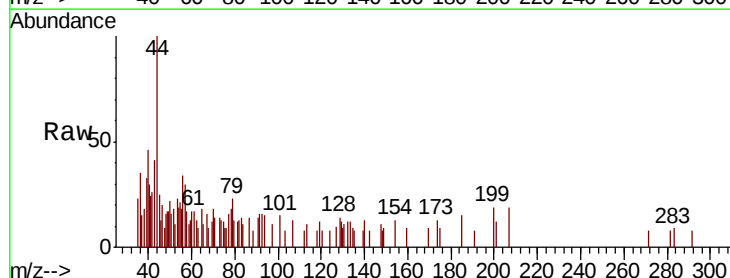
Tgt Ion: 59 Resp: 4401
 Ion Ratio Lower Upper
 59 100
 57 23.2 8.4 12.6#

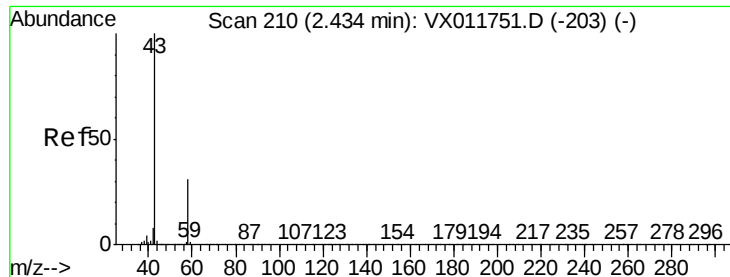


#13

Acrolein
 Concen: 0.488 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX011837.D
 Acq: 24 Aug 2019 22:30

Tgt Ion: 56 Resp: 177
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.8 82.2#





#16

Acetone

Concen: 6.778 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

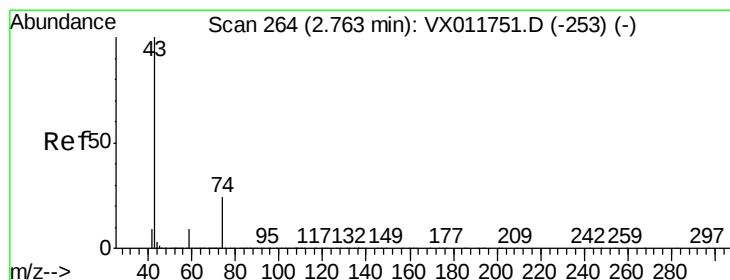
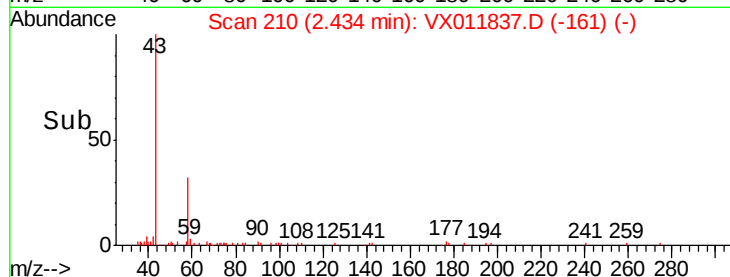
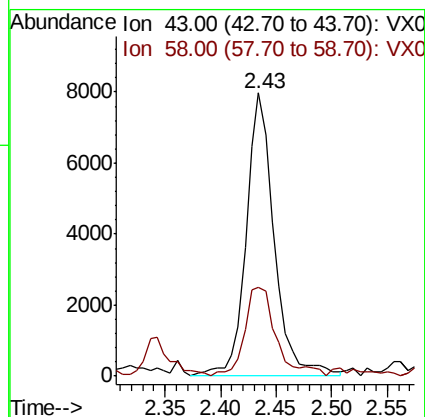
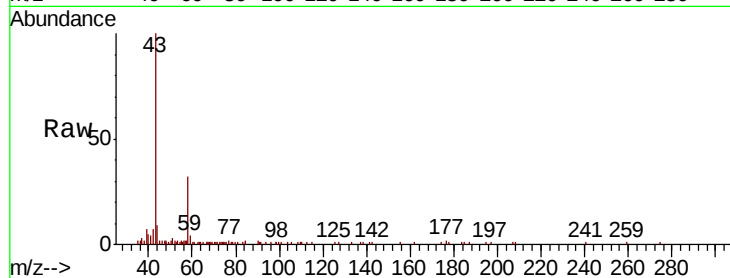
WC-PILE-082219

Tgt Ion: 43 Resp: 13990

Ion Ratio Lower Upper

43 100

58 29.3 24.4 36.6



#18

Methyl Acetate

Concen: 0.915 ug/l

RT: 2.76 min Scan# 264

Delta R.T. -0.00 min

Lab File: VX011837.D

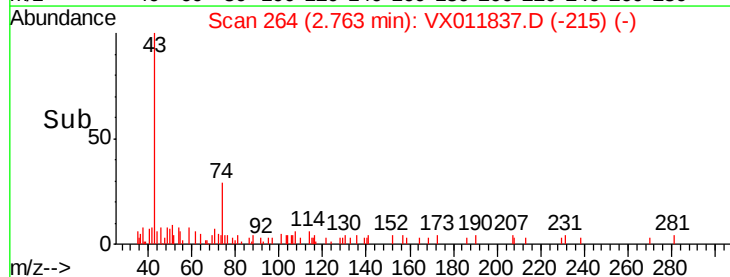
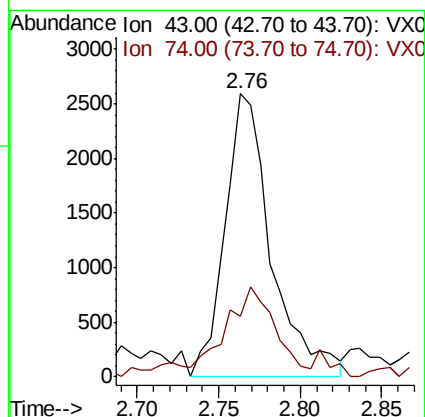
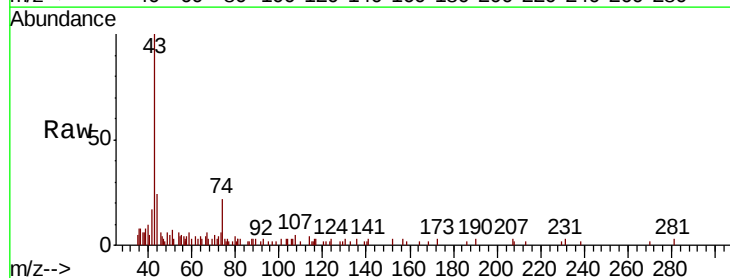
Acq: 24 Aug 2019 22:30

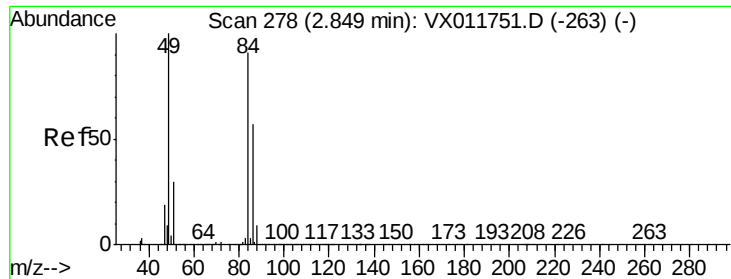
Tgt Ion: 43 Resp: 5122

Ion Ratio Lower Upper

43 100

74 34.0 19.5 29.3#

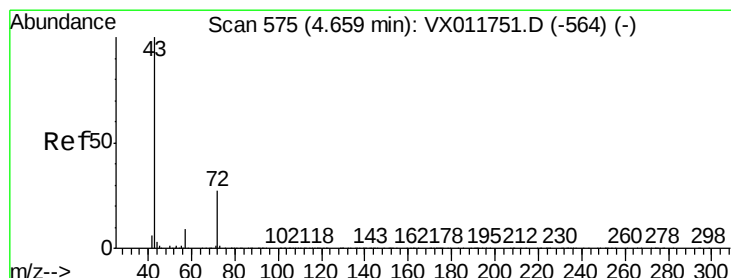
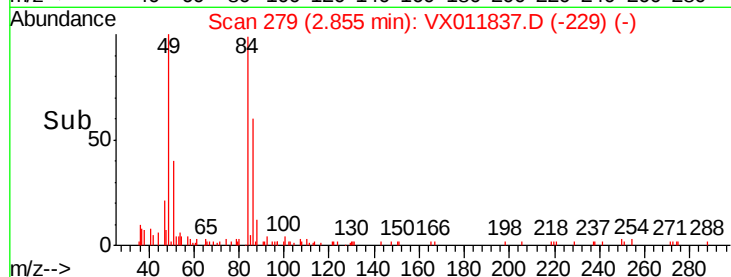
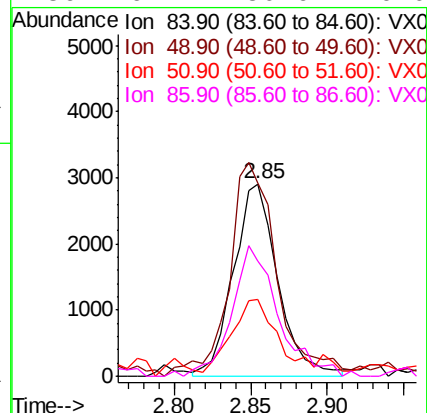
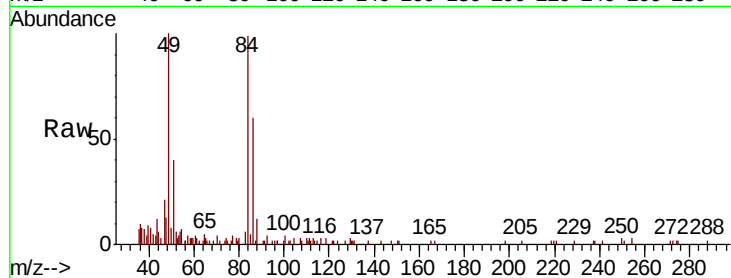




#20
Methylene Chloride
Concen: 1.387 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011837.D
Acq: 24 Aug 2019 22:30

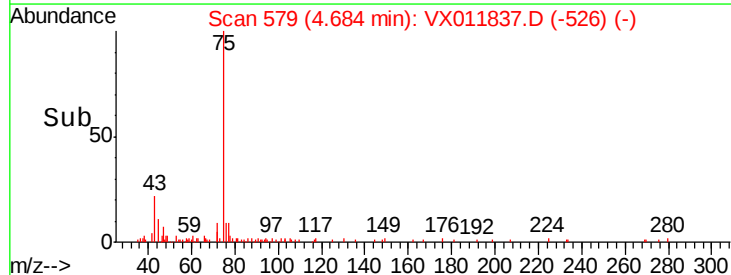
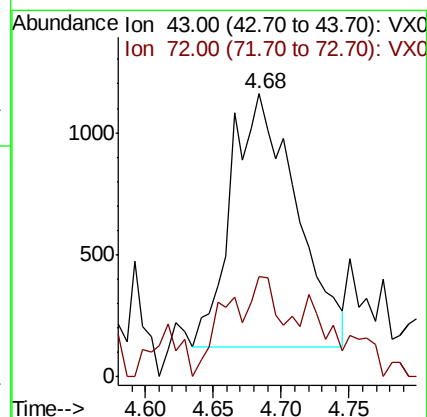
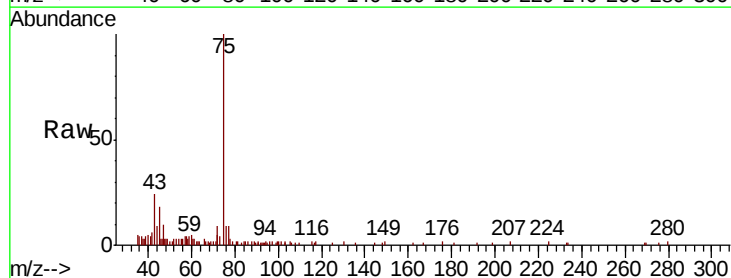
Instrument :
MSVOA_X
ClientSampleId :
WC-PILE-082219

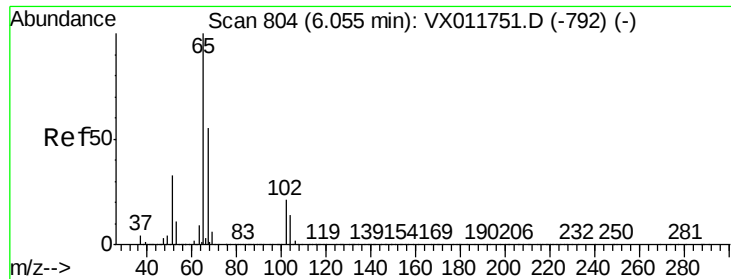
Tgt Ion:	84	Resp:	5854
Ion	Ratio	Lower	Upper
84	100		
49	98.4	88.3	132.5
51	37.7	26.2	39.2
86	61.4	50.6	76.0



#25
2-Butanone
Concen: 1.168 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011837.D
Acq: 24 Aug 2019 22:30

Tgt Ion:	43	Resp:	3460
Ion	Ratio	Lower	Upper
43	100		
72	39.9	21.8	32.6#





#33

1,2-Dichloroethane-d4

Concen: 40.835 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

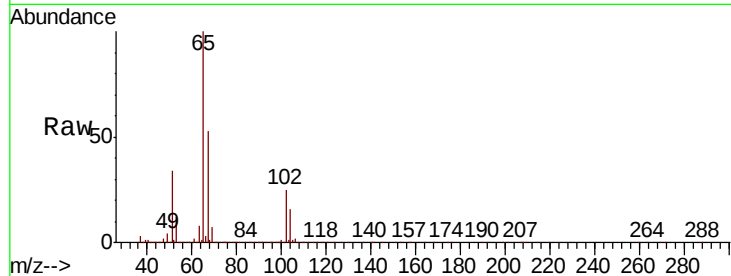
WC-PILE-082219

Tgt Ion: 65 Resp: 193762

Ion Ratio Lower Upper

65 100

67 53.6 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

80000

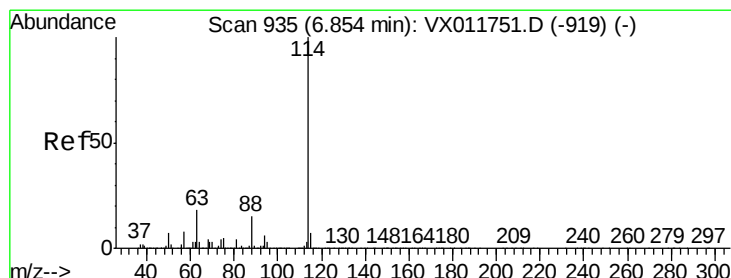
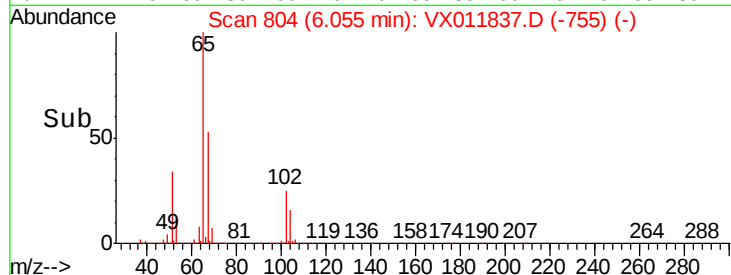
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

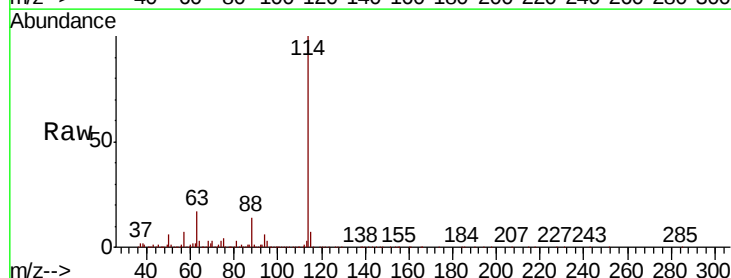
Tgt Ion: 114 Resp: 622660

Ion Ratio Lower Upper

114 100

63 16.9 0.0 36.8

88 13.7 0.0 30.2



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

6.85

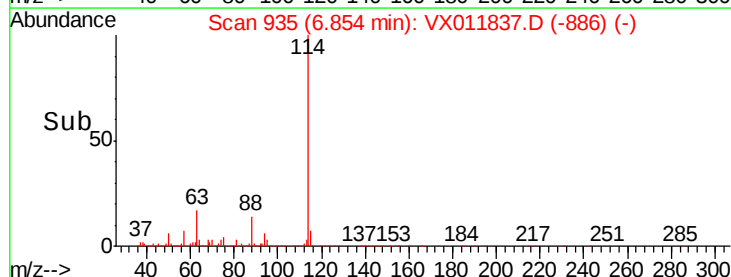
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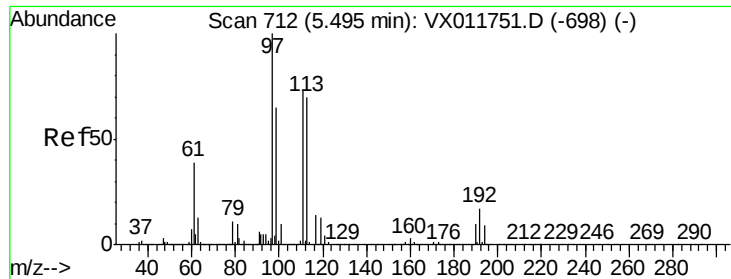
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 46.079 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

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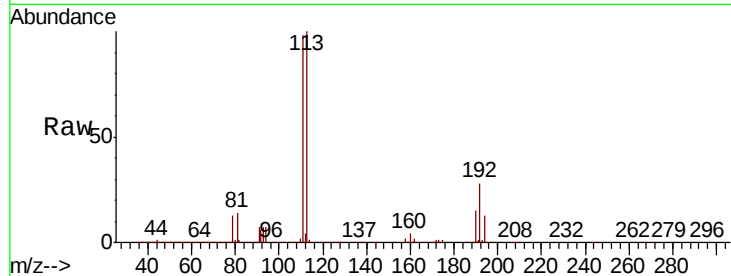
Tgt Ion: 113 Resp: 185531

Ion Ratio Lower Upper

113 100

111 101.1 81.0 121.4

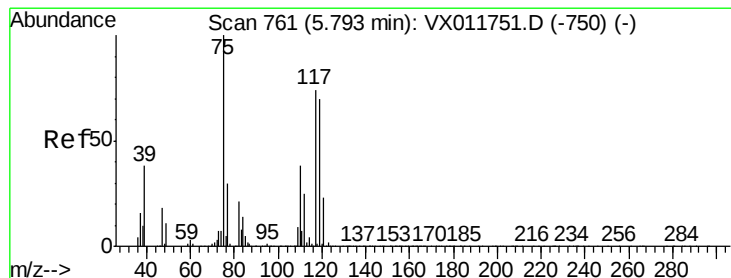
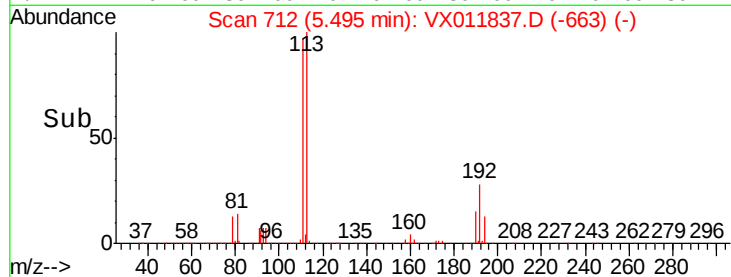
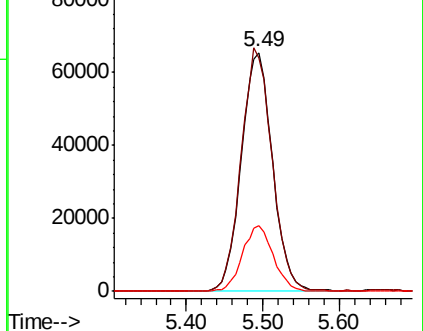
192 27.4 19.9 29.9



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



#36

1,1-Dichloropropene

Concen: 4.948 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.15 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

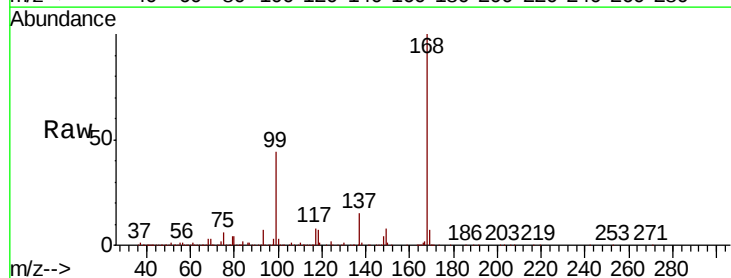
Tgt Ion: 75 Resp: 24162

Ion Ratio Lower Upper

75 100

110 11.9 19.0 57.0#

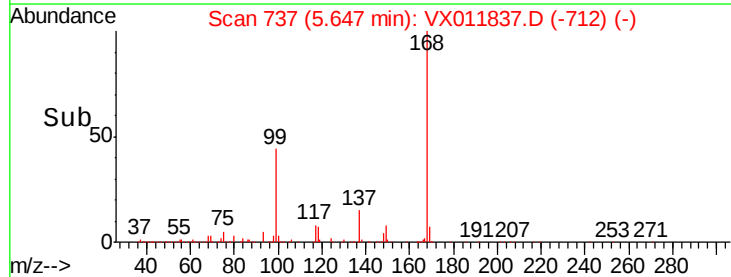
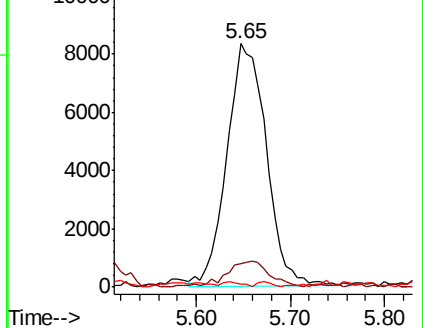
77 0.0 24.6 36.8#

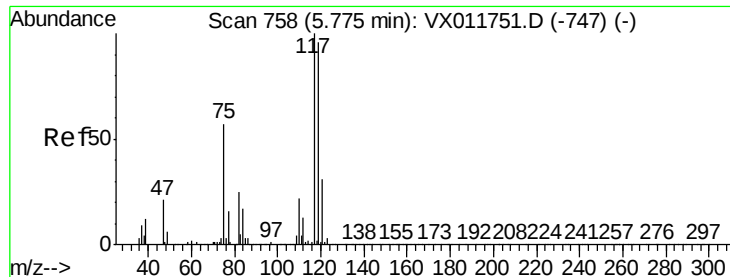


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.699 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

Instrument :

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ClientSampleId :

WC-PILE-082219

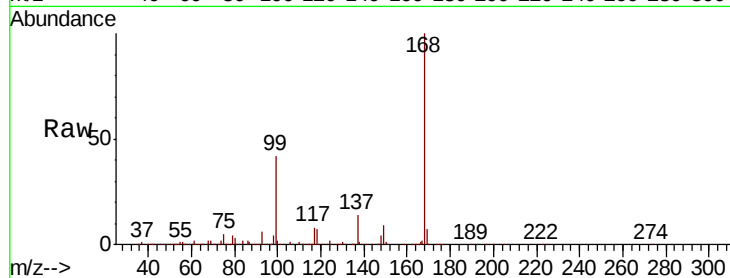
Tgt Ion:117 Resp: 37068

Ion Ratio Lower Upper

117 100

119 5.0 76.6 114.8#

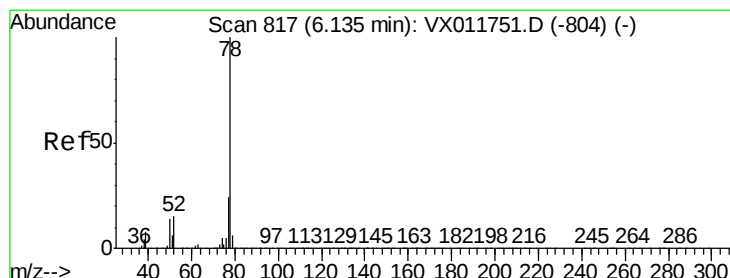
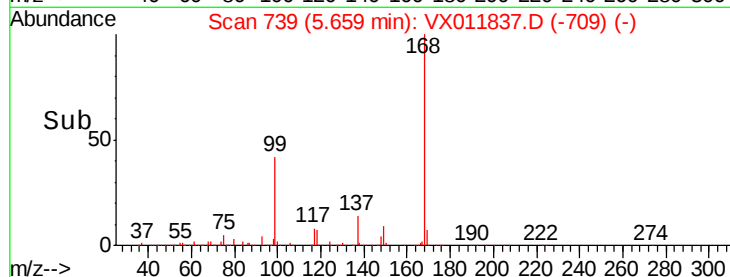
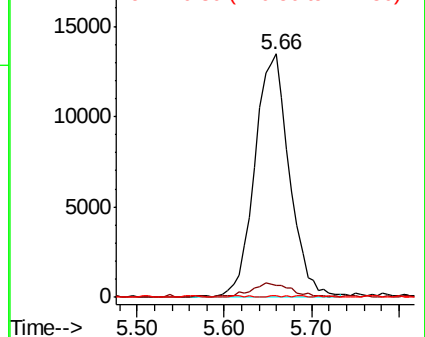
121 0.6 25.2 37.8#



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



#40

Benzene

Concen: 0.213 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.01 min

Lab File: VX011837.D

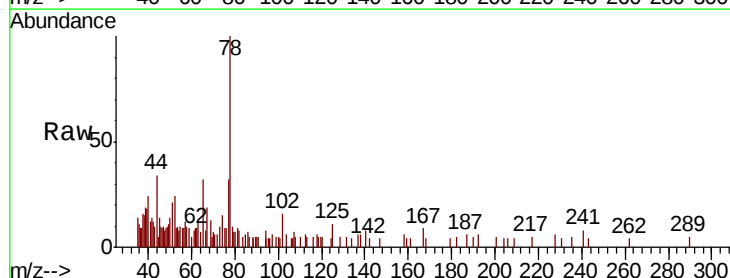
Acq: 24 Aug 2019 22:30

Tgt Ion: 78 Resp: 3223

Ion Ratio Lower Upper

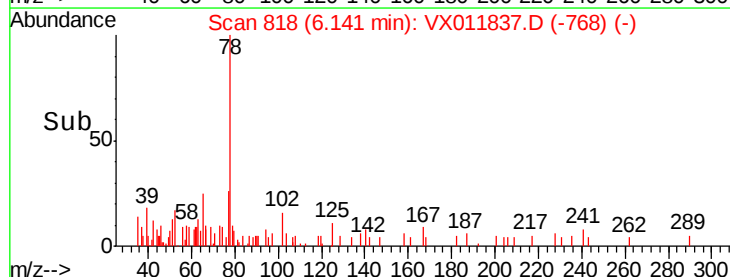
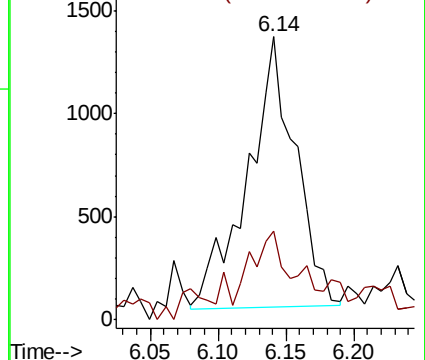
78 100

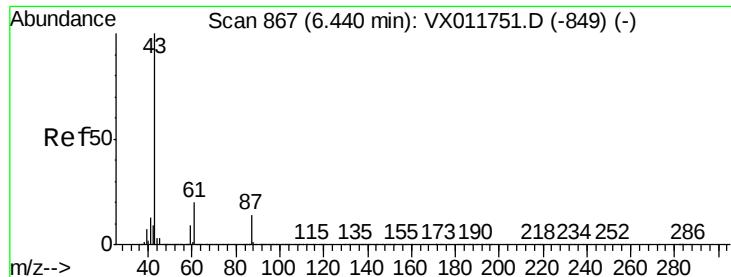
77 22.0 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 7.326 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

WC-PILE-082219

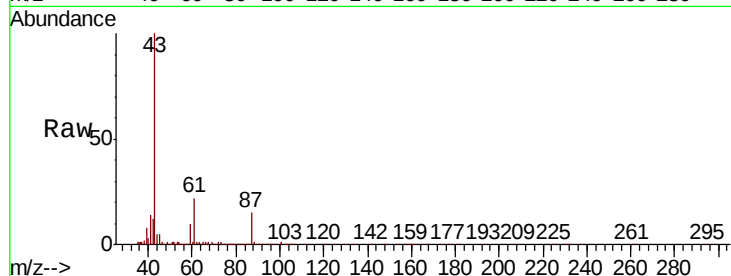
Tgt Ion: 43 Resp: 61269

Ion Ratio Lower Upper

43 100

61 20.8 16.2 24.2

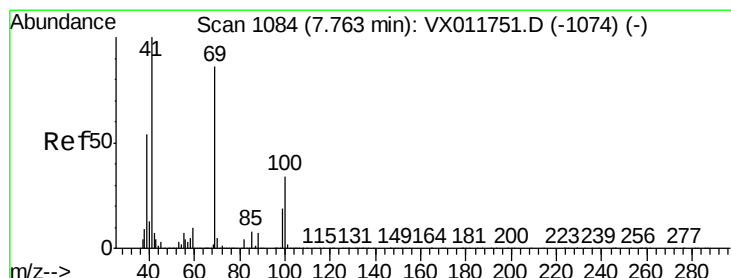
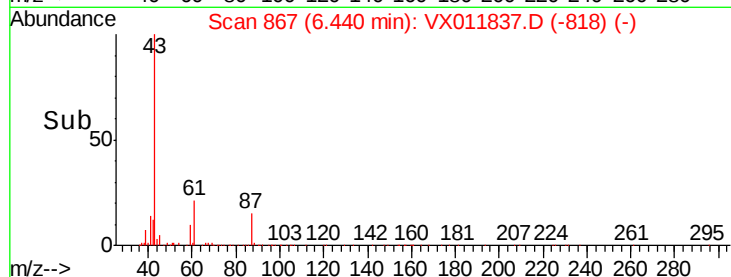
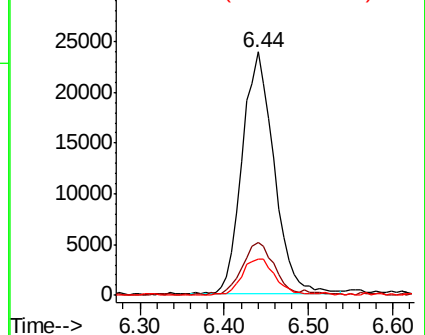
87 15.8 11.6 17.4



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: 0.824 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

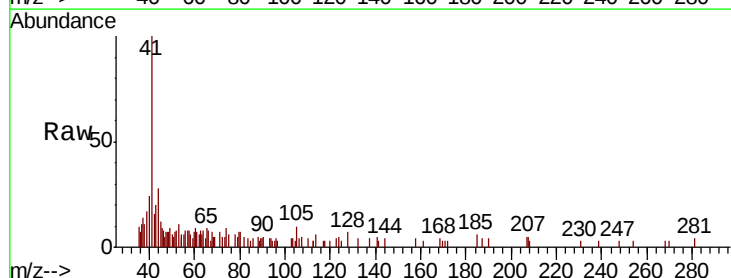
Tgt Ion: 41 Resp: 3429

Ion Ratio Lower Upper

41 100

69 3.9 69.4 104.2#

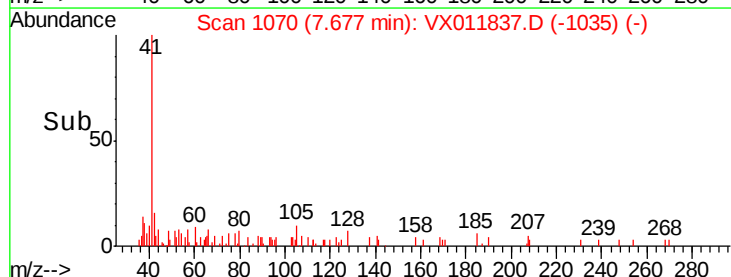
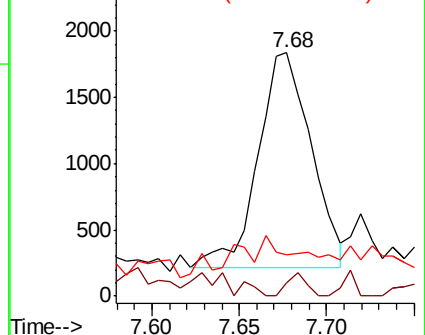
39 0.0 43.6 65.4#

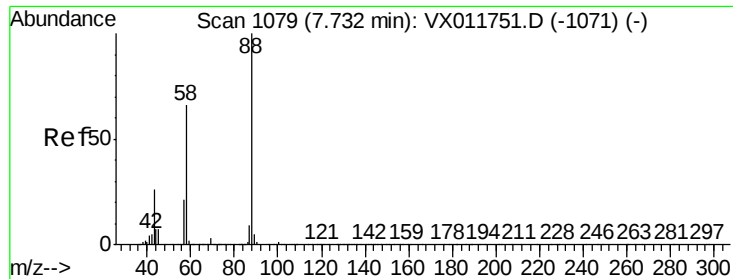


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

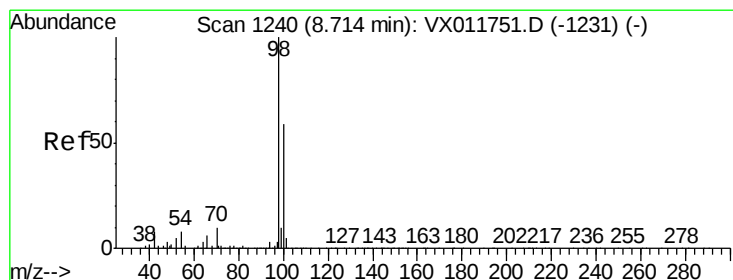
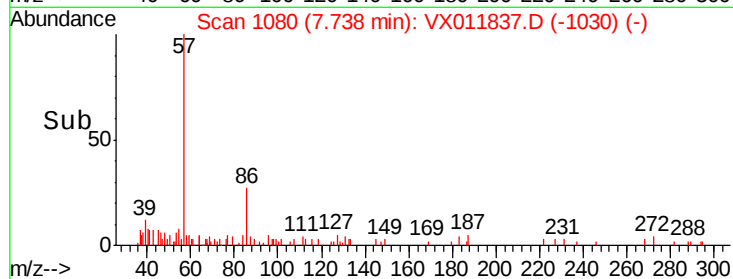
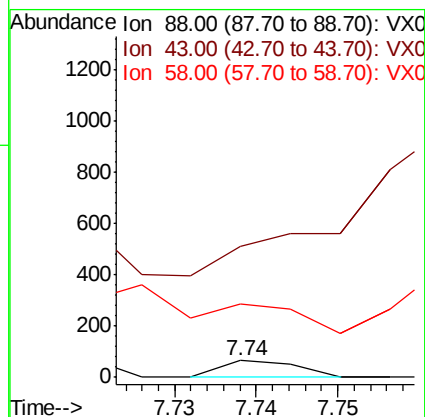
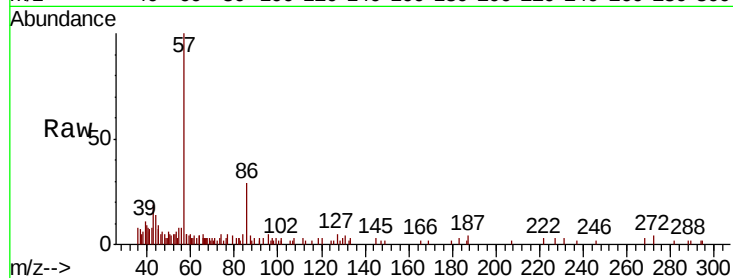




#49
1,4-Dioxane
Concen: 0.373 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. 0.01 min
Lab File: VX011837.D
Acq: 24 Aug 2019 22:30

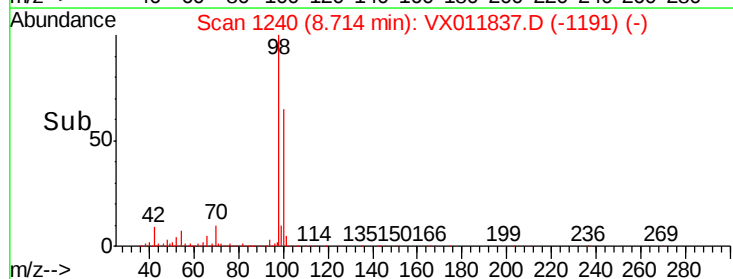
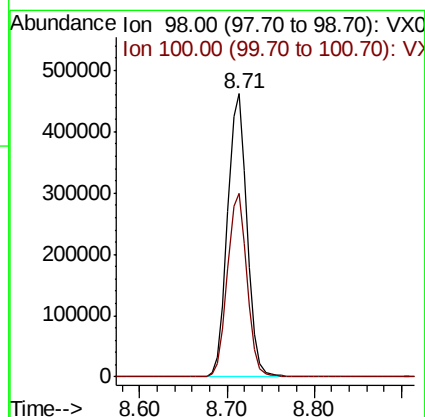
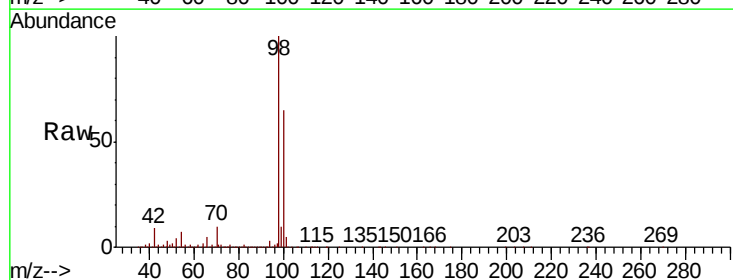
Instrument :
MSVOA_X
ClientSampleId :
WC-PILE-082219

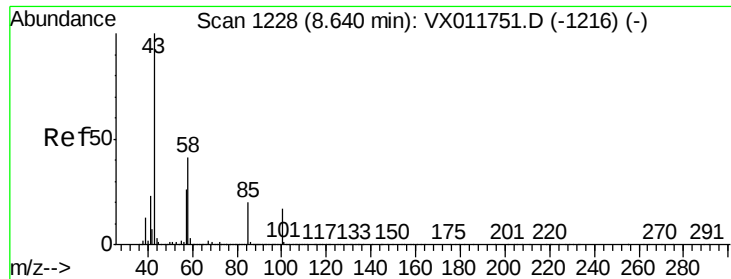
Tgt Ion: 88 Resp: 43
Ion Ratio Lower Upper
88 100
43 0.0 24.6 37.0#
58 0.0 51.4 77.2#



#50
Toluene-d8
Concen: 50.656 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011837.D
Acq: 24 Aug 2019 22:30

Tgt Ion: 98 Resp: 711412
Ion Ratio Lower Upper
98 100
100 64.9 52.1 78.1





#51

4-Methyl-2-Pentanone

Concen: 10.276 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

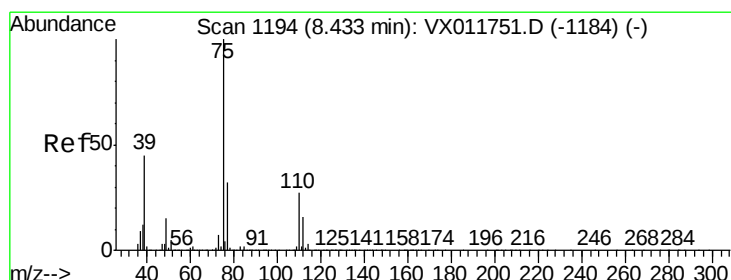
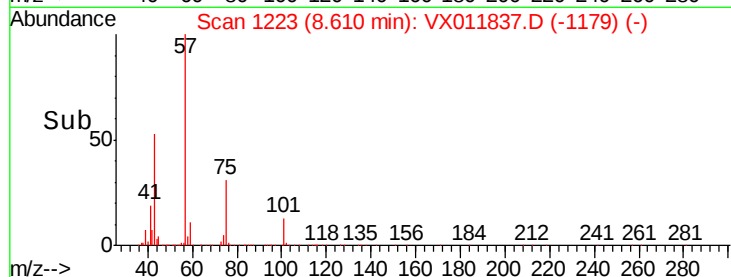
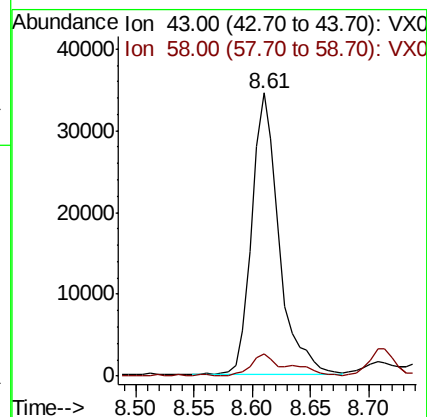
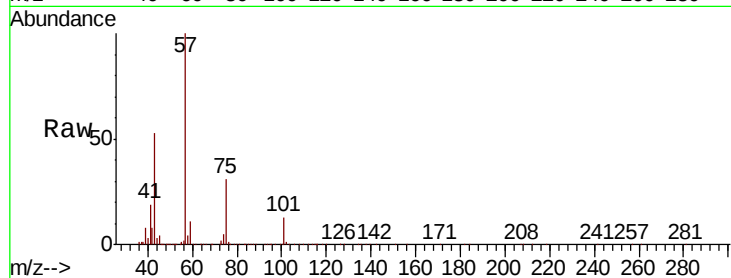
WC-PILE-082219

Tgt Ion: 43 Resp: 56626

Ion Ratio Lower Upper

43 100

58 6.9 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 5.019 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

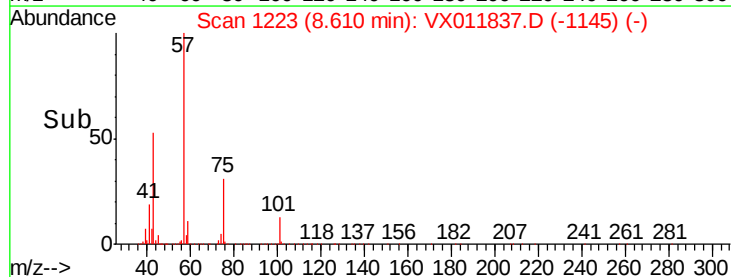
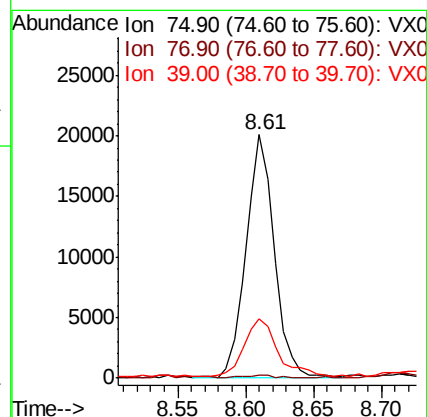
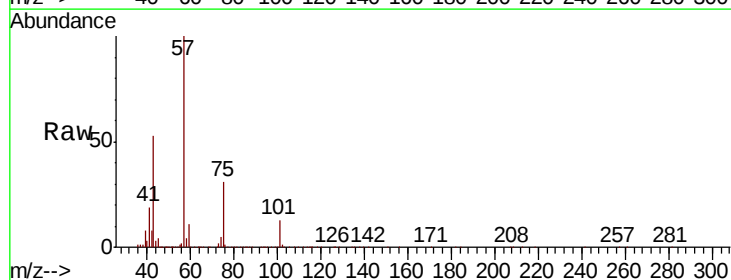
Tgt Ion: 75 Resp: 28961

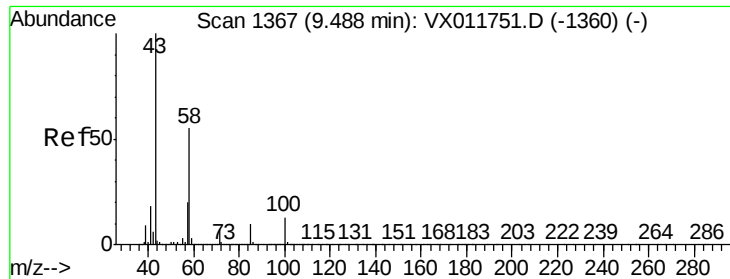
Ion Ratio Lower Upper

75 100

77 0.9 25.4 38.2#

39 23.6 36.2 54.4#

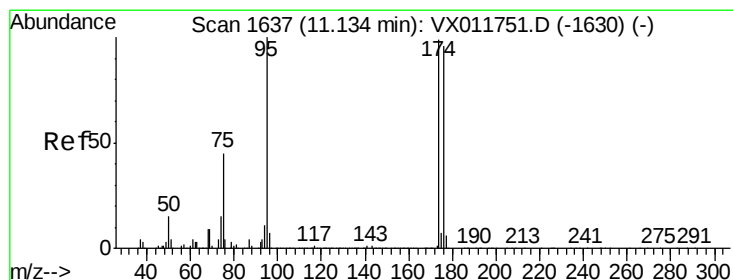
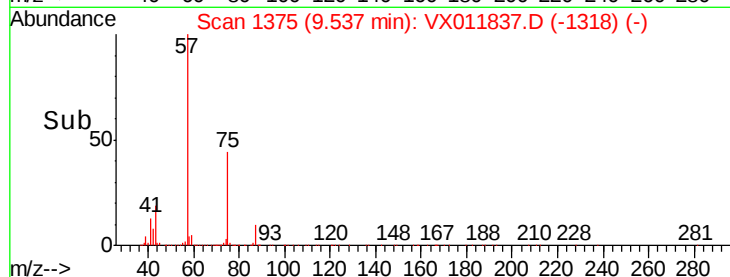
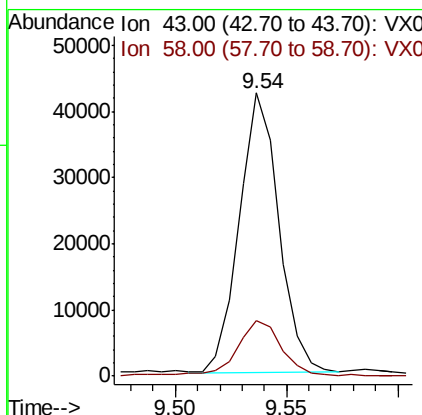
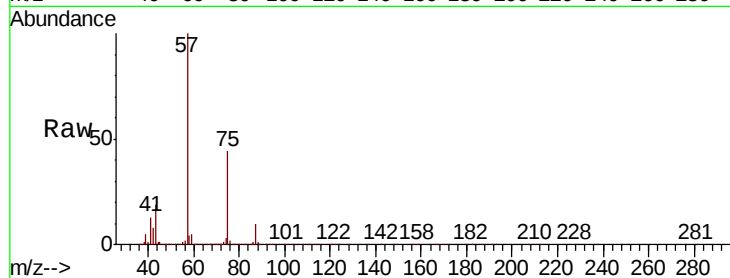




#59
2-Hexanone
Concen: 12.405 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011837.D
Acq: 24 Aug 2019 22:30

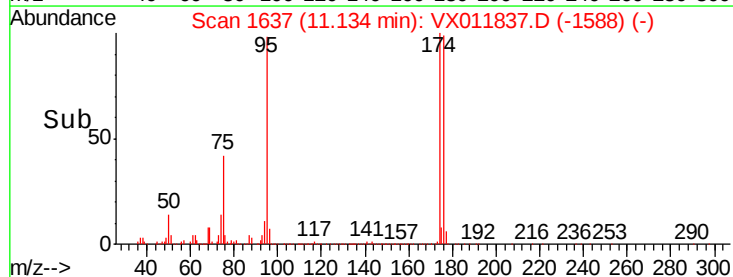
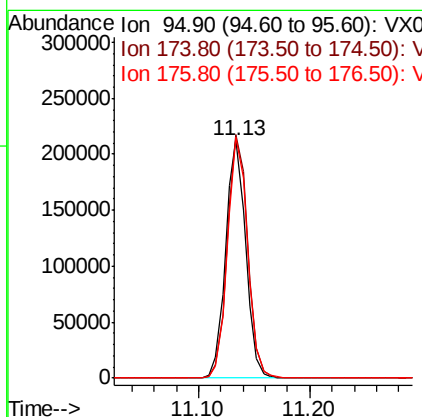
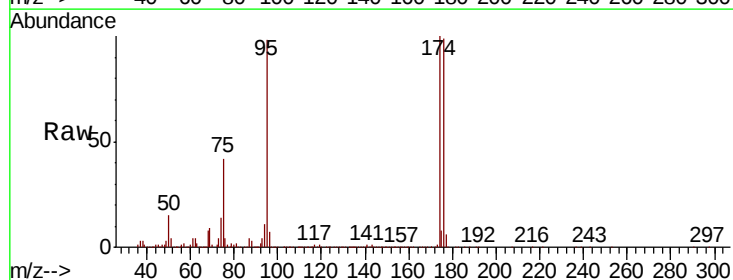
Instrument :
MSVOA_X
ClientSampleId :
WC-PILE-082219

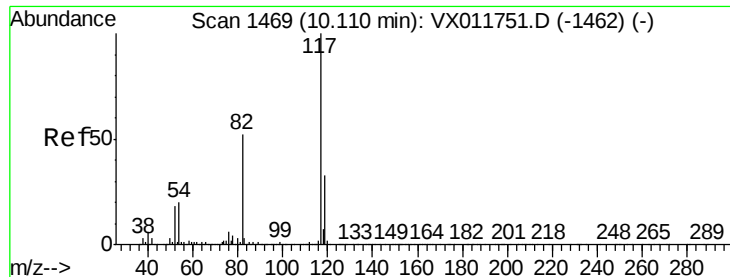
Tgt Ion: 43 Resp: 52469
Ion Ratio Lower Upper
43 100
58 21.6 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 47.474 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011837.D
Acq: 24 Aug 2019 22:30

Tgt Ion: 95 Resp: 263530
Ion Ratio Lower Upper
95 100
174 104.3 0.0 197.4
176 101.8 0.0 194.4

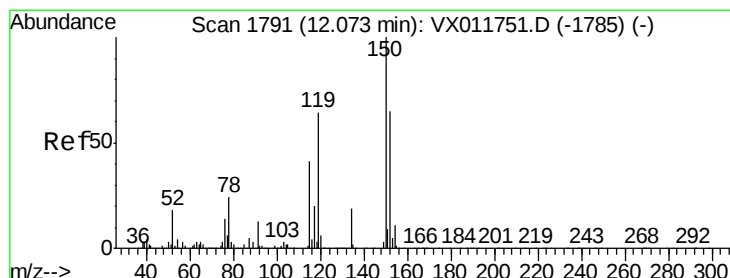
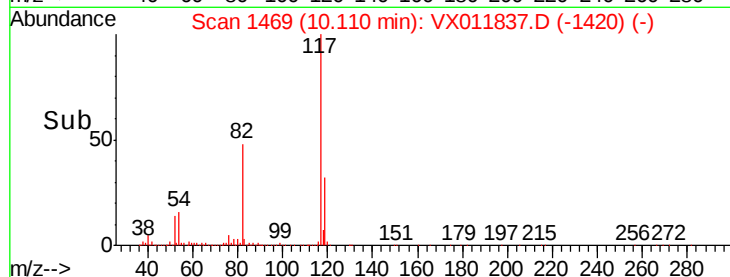
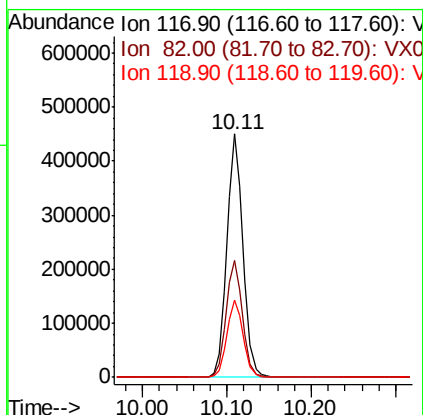
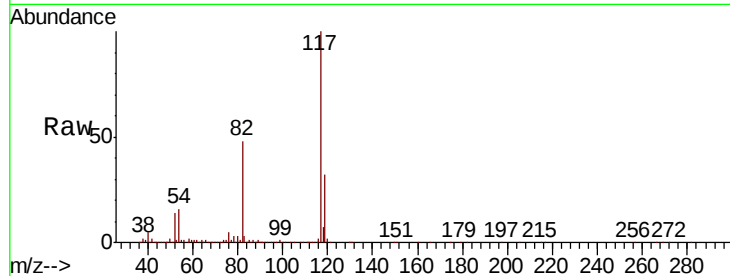




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011837.D
Acq: 24 Aug 2019 22:30

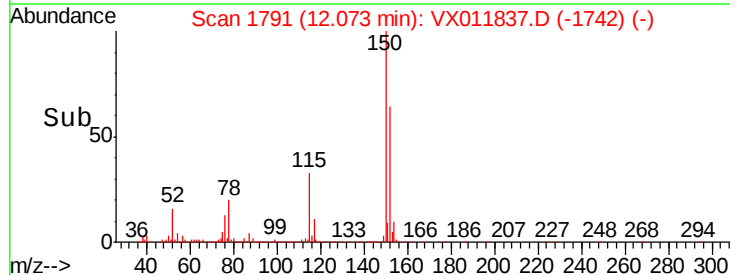
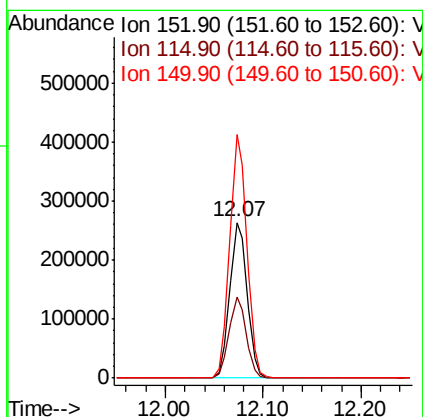
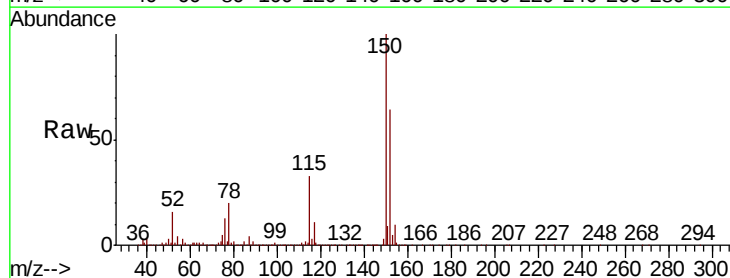
Instrument :
MSVOA_X
ClientSampleId :
WC-PILE-082219

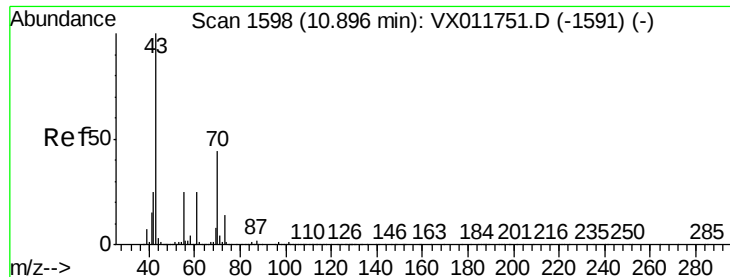
Tgt Ion:117 Resp: 590675
Ion Ratio Lower Upper
117 100
82 47.7 41.7 62.5
119 31.6 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.00 min
Lab File: VX011837.D
Acq: 24 Aug 2019 22:30

Tgt Ion:152 Resp: 326757
Ion Ratio Lower Upper
152 100
115 51.6 37.3 111.8
150 154.2 0.0 343.0





#74

N-ethyl acetate

Concen: 0.256 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

WC-PILE-082219

Tgt Ion: 43 Resp: 1955

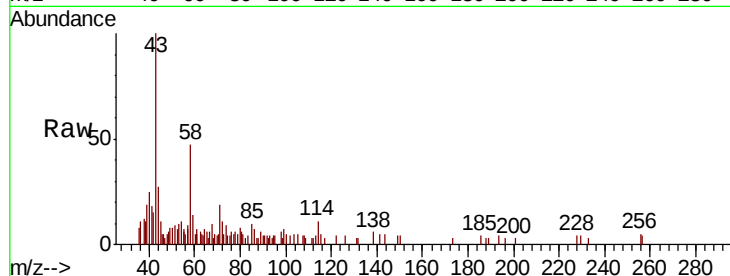
Ion Ratio Lower Upper

43 100

70 14.2 34.8 52.2#

55 33.8 19.5 29.3#

61 0.0 19.8 29.6#

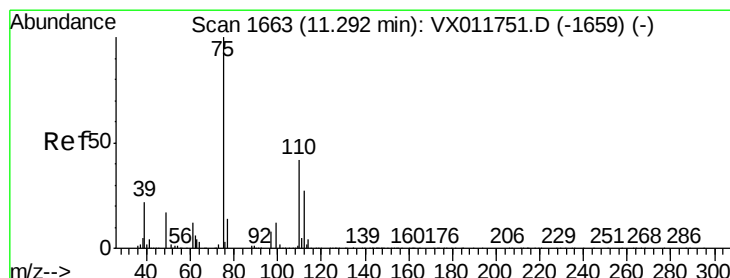
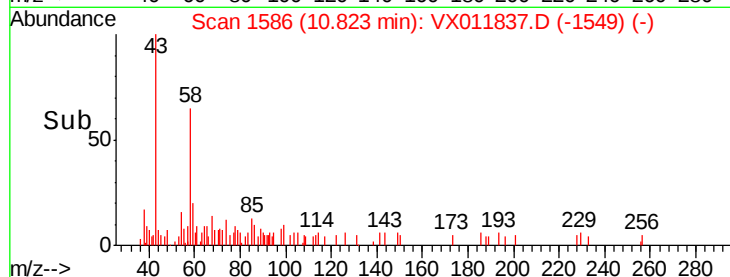
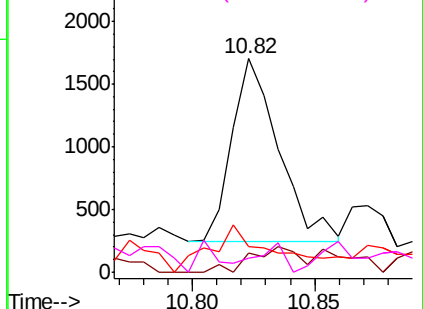


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.631 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011837.D

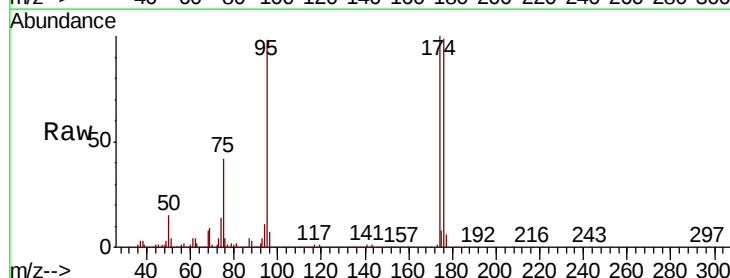
Acq: 24 Aug 2019 22:30

Tgt Ion: 75 Resp: 118289

Ion Ratio Lower Upper

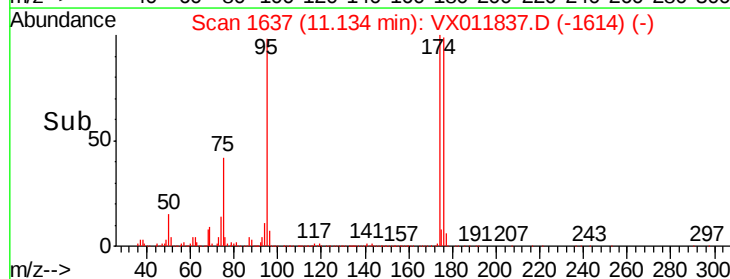
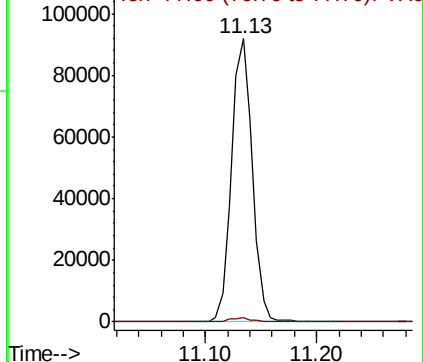
75 100

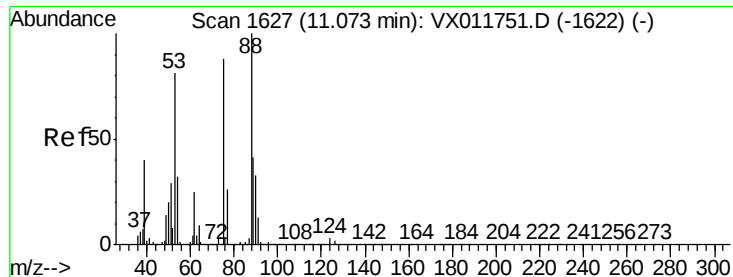
77 1.7 21.1 63.3#



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: 62.219 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

Instrument :

MSVOA_X

ClientSampleId :

WC-PILE-082219

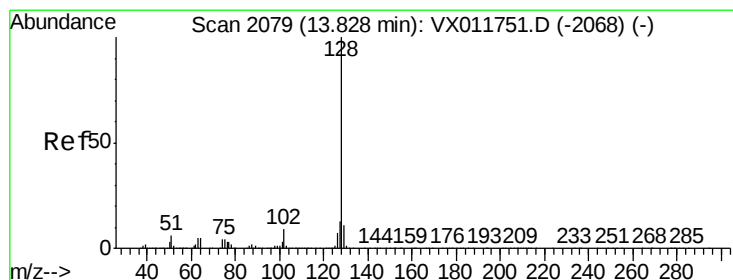
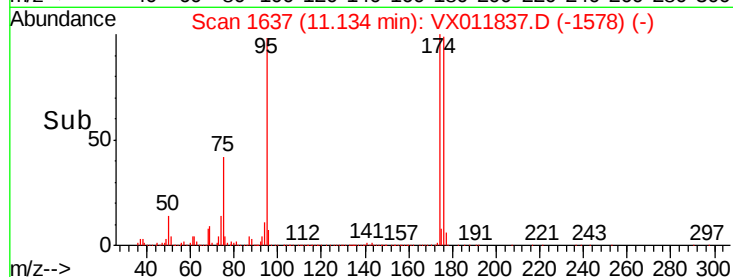
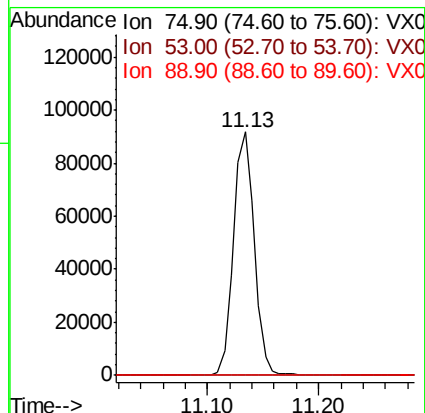
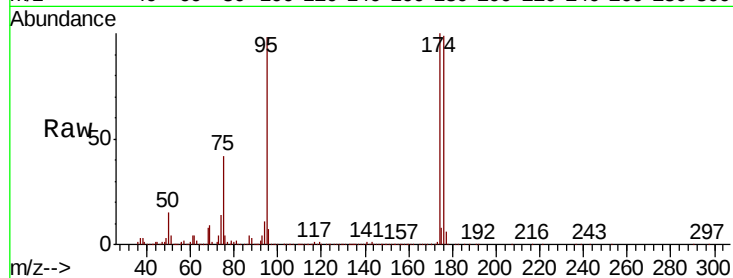
Tgt Ion: 75 Resp: 118289

Ion Ratio Lower Upper

75 100

53 0.0 77.1 115.7#

89 0.0 38.5 57.7#



#95

Naphthalene

Concen: 0.989 ug/l

RT: 13.83 min Scan# 2079

Delta R.T. -0.00 min

Lab File: VX011837.D

Acq: 24 Aug 2019 22:30

Tgt Ion: 128 Resp: 20211

Ion Ratio Lower Upper

128 100

127 15.1 10.4 15.6

129 12.1 8.7 13.1

