

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020420\
 Data File : VX014805.D
 Acq On : 04 Feb 2020 13:39
 Operator : JC/SP
 Sample : L1387-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 F06031

Quant Time: Feb 05 03:02:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 22 12:35:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	424791	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	668721	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	618441	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	295165	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	248068	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
35) Dibromofluoromethane	5.49	113	205411	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
50) Toluene-d8	8.71	98	796603	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	11.13	95	278034	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	

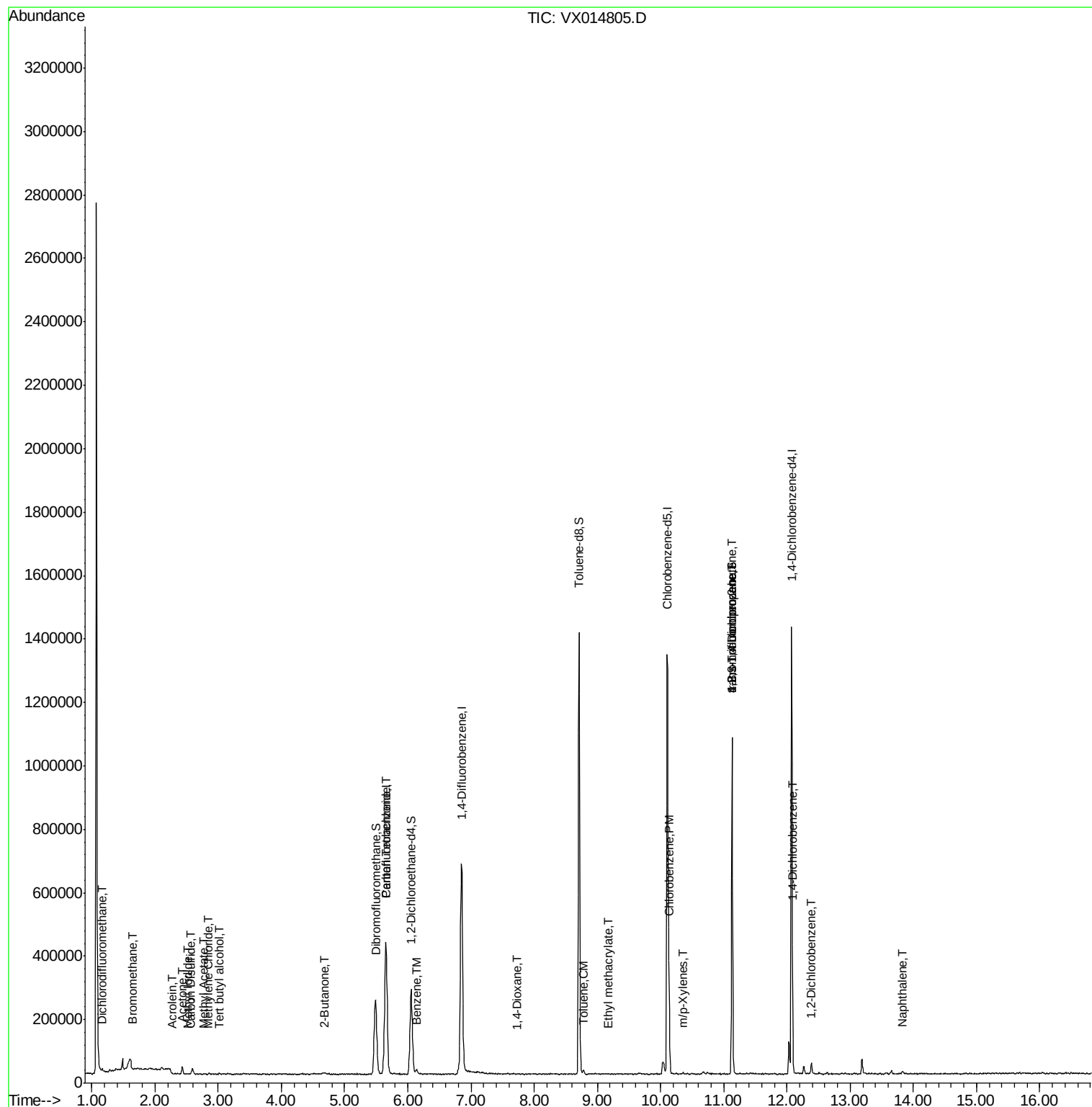
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.17	85	176	0.562	ug/l #	62
5) Bromomethane	1.65	94	1343	0.318	ug/l #	55
6) Chloroethane	1.70	64	458	Below Cal	#	63
10) Methyl Iodide	2.51	142	1947	0.349	ug/l #	87
11) Tert butyl alcohol	3.02	59	2435	2.186	ug/l #	89
13) Acrolein	2.28	56	798	0.909	ug/l #	49
16) Acetone	2.43	43	24969	9.329	ug/l	99
17) Carbon Disulfide	2.56	76	2713	0.235	ug/l #	75
18) Methyl Acetate	2.76	43	3568	0.460	ug/l #	82
20) Methylene Chloride	2.84	84	1631	0.324	ug/l #	66
25) 2-Butanone	4.67	43	5474	1.405	ug/l #	88
38) Carbon Tetrachloride	5.65	117	37581	6.333	ug/l #	17
40) Benzene	6.14	78	16229	0.845	ug/l	96
41) Methacrylonitrile	5.02	41	1025	Below Cal	#	46
49) 1,4-Dioxane	7.72	88	136	1.152	ug/l #	66
52) Toluene	8.78	92	5011	0.425	ug/l	85
56) Ethyl methacrylate	9.17	69	140	1.801	ug/l #	1
65) Chlorobenzene	10.14	112	138992	10.507	ug/l	98
68) m/p-Xylenes	10.35	106	1956	0.229	ug/l	84
76) 1,2,3-Trichloropropane	11.13	75	139725	20.347	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	139725	57.903	ug/l #	11
88) 1,4-Dichlorobenzene	12.09	146	5616	0.560	ug/l #	62
91) 1,2-Dichlorobenzene	12.39	146	11141	1.119	ug/l	95
95) Naphthalene	13.83	128	4980	1.168	ug/l #	76

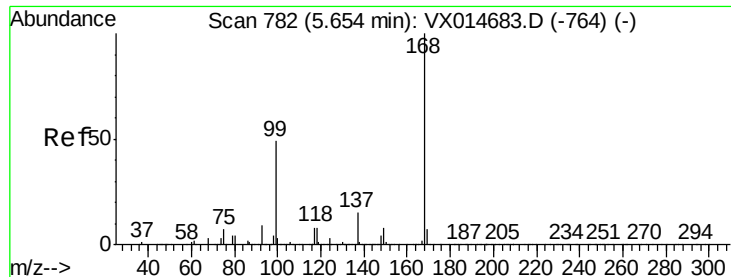
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 05 03:02:37 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
Quant Title : SW846 8260
QLast Update : Wed Jan 22 12:35:15 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

Instrument :

MSVOA_X

ClientSampleId :

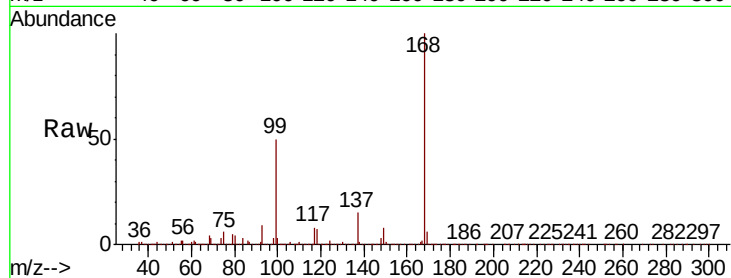
F06031

Tot Ion:168 Resp: 424791

Ion Ratio Lower Upper

168 100

99 49.5 39.8 59.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

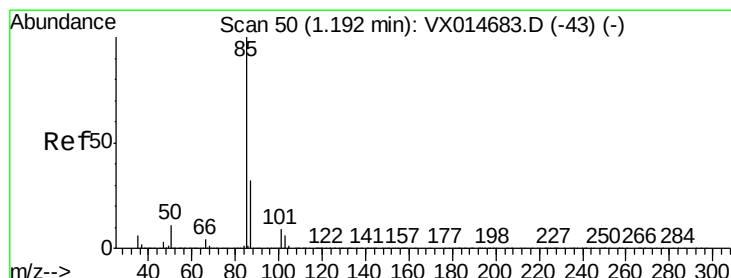
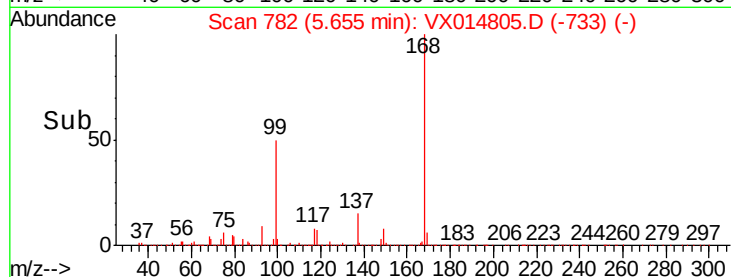
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.562 ug/l

RT: 1.17 min Scan# 46

Delta R.T. -0.02 min

Lab File: VX014805.D

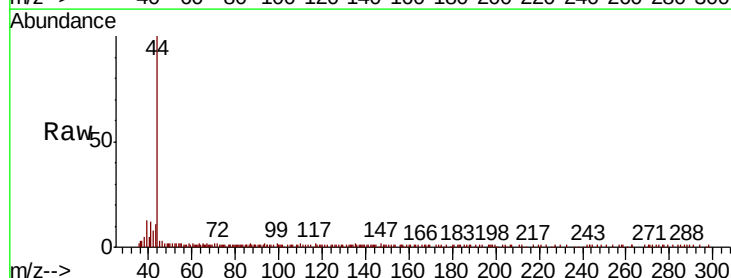
Acq: 04 Feb 2020 13:39

Tgt Ion: 85 Resp: 176

Ion Ratio Lower Upper

85 100

87 11.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.17

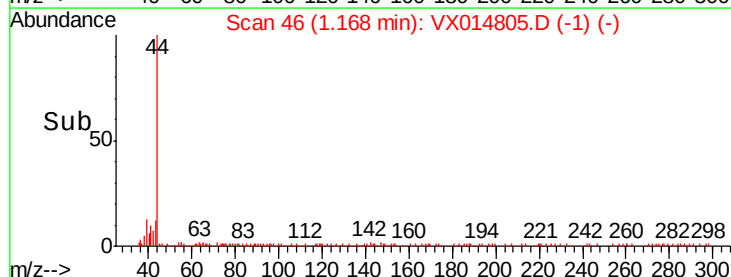
300

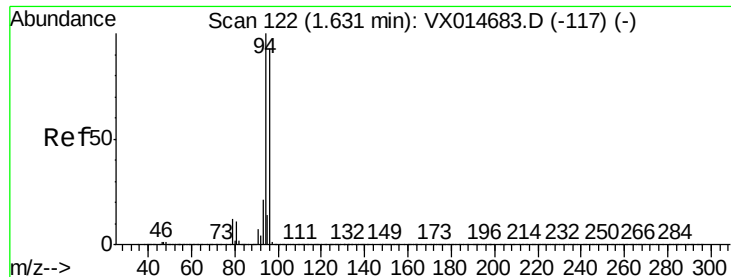
200

100

0

Time-->





#5

Bromomethane

Concen: 0.318 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

Instrument :

MSVOA_X

ClientSampleId :

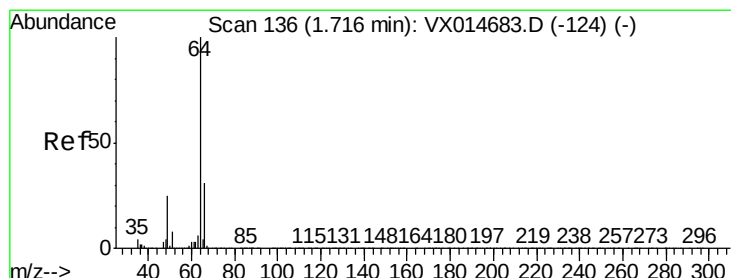
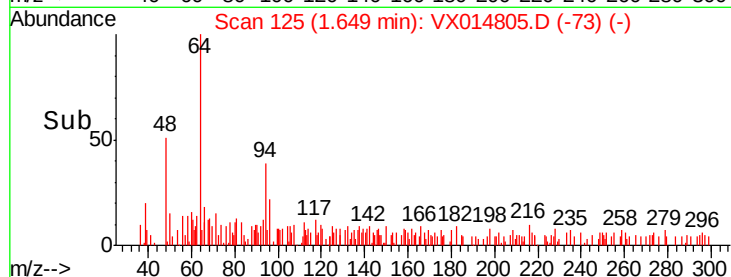
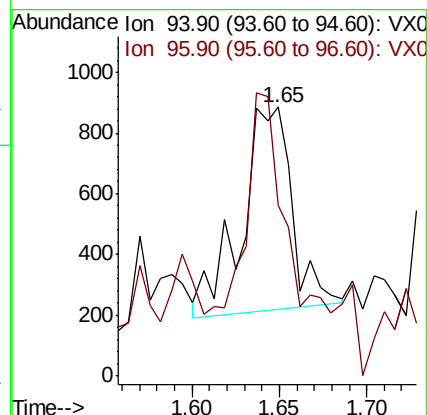
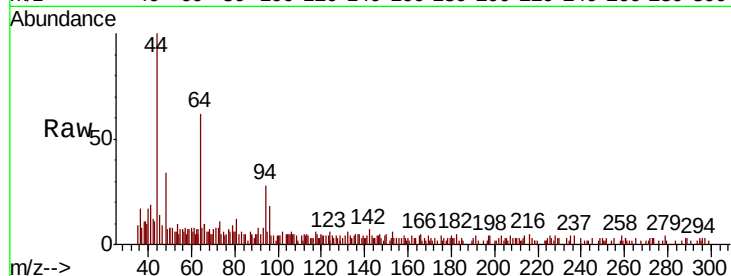
F06031

Tot Ion: 94 Resp: 1343

Ion Ratio Lower Upper

94 100

96 50.3 74.7 112.1#



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX014805.D

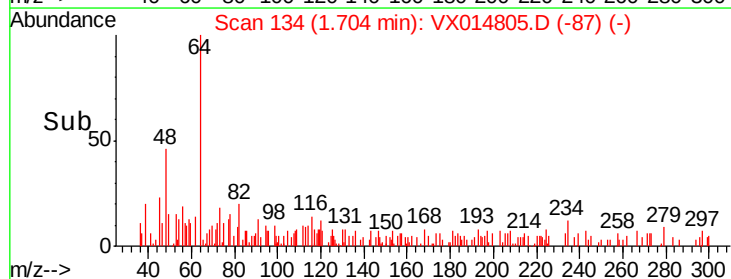
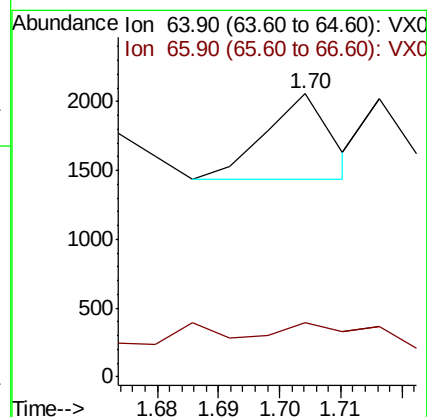
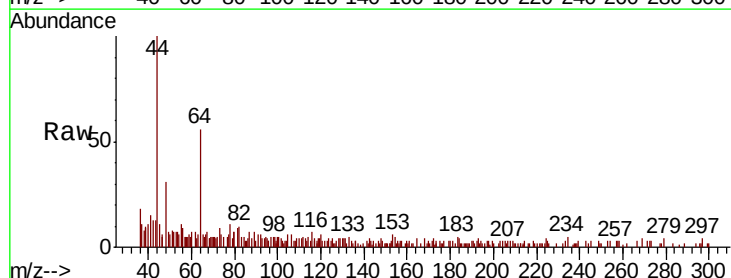
Acq: 04 Feb 2020 13:39

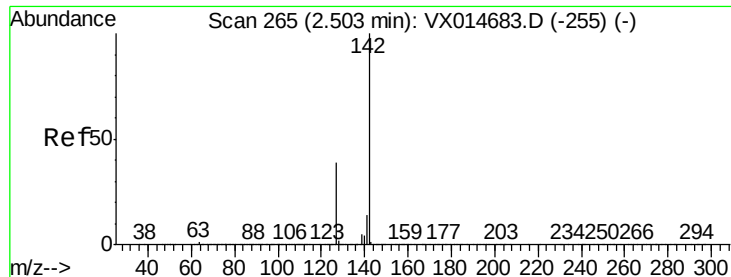
Tgt Ion: 64 Resp: 458

Ion Ratio Lower Upper

64 100

66 11.0 25.2 37.8#

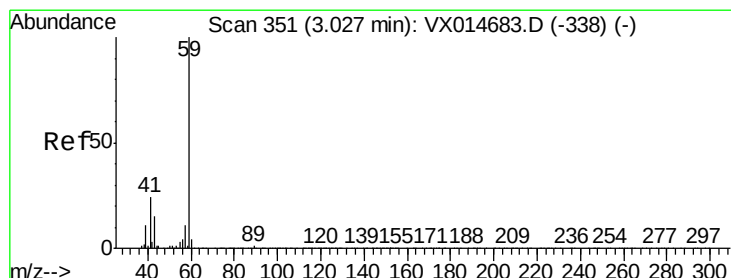
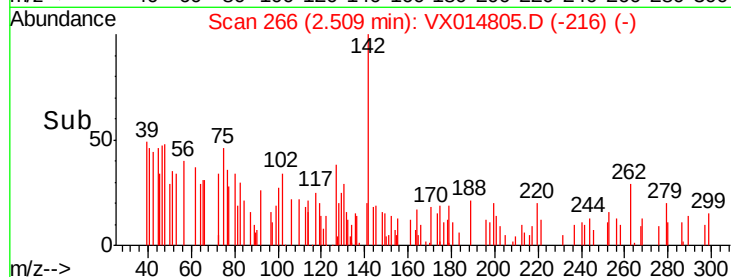
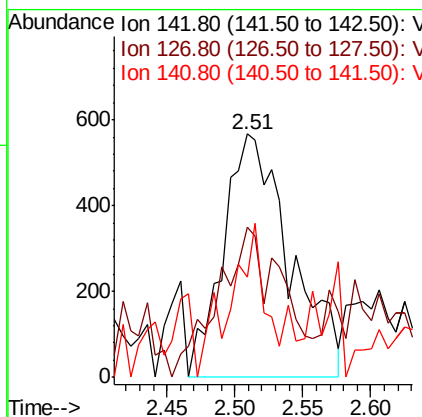
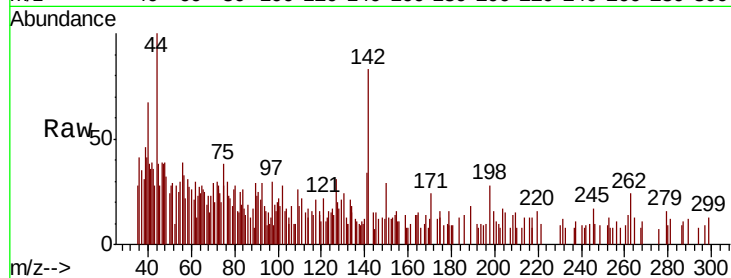




#10
Methvl Iodide
Concen: 0.349 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014805.D
Acq: 04 Feb 2020 13:39

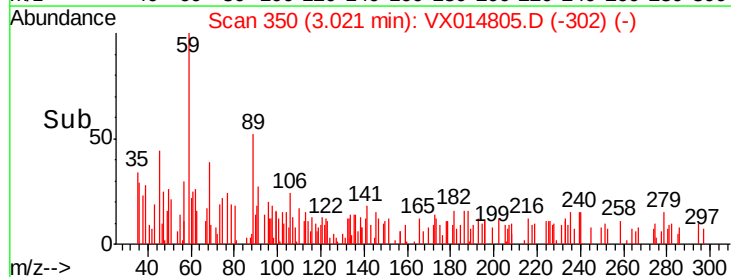
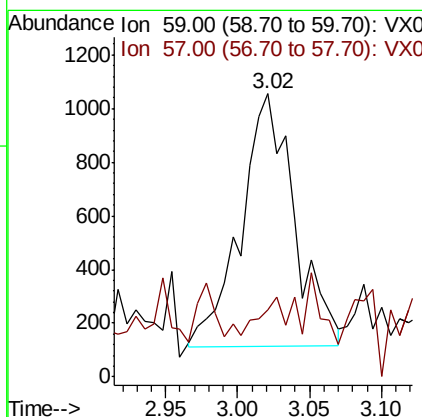
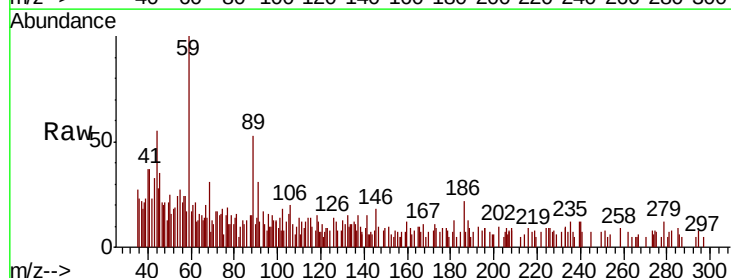
Instrument :
MSVOA_X
ClientSampleId :
F06031

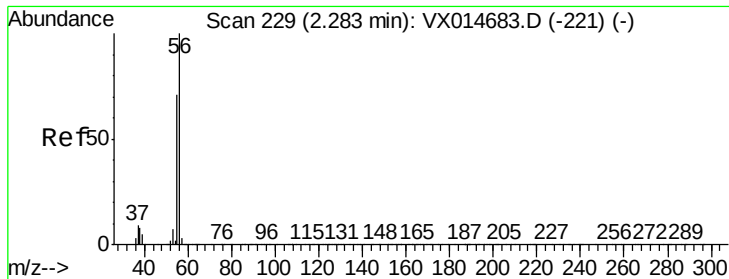
Tot Ion:142 Resp: 1947
Ion Ratio Lower Upper
142 100
127 39.5 31.1 46.7
141 33.1 11.3 16.9#



#11
Tert butyl alcohol
Concen: 2.186 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX014805.D
Acq: 04 Feb 2020 13:39

Tgt Ion: 59 Resp: 2435
Ion Ratio Lower Upper
59 100
57 6.1 8.3 12.5#

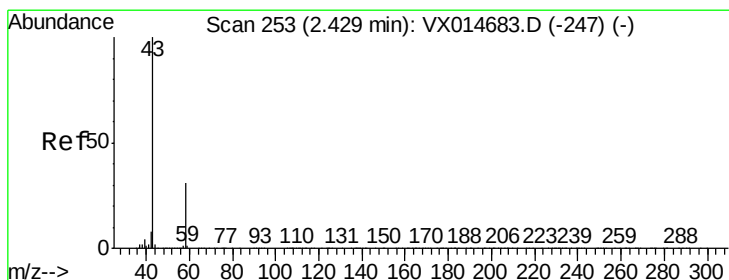
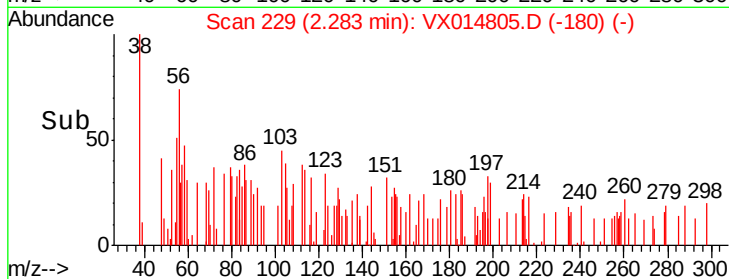
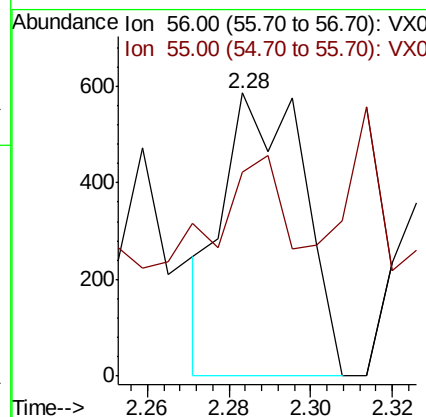
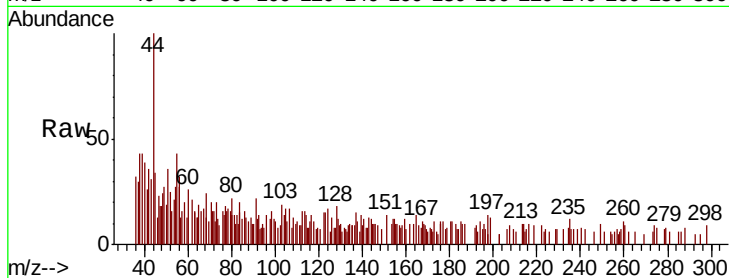




#13
Acrolein
Concen: 0.909 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX014805.D
Acq: 04 Feb 2020 13:39

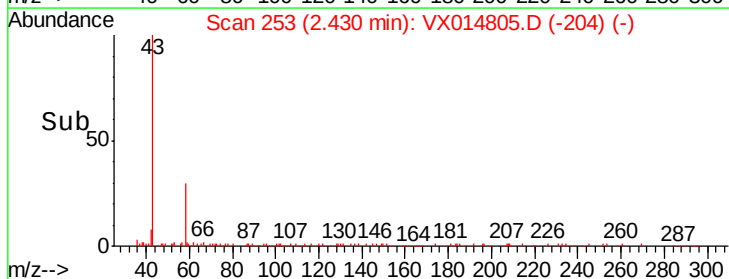
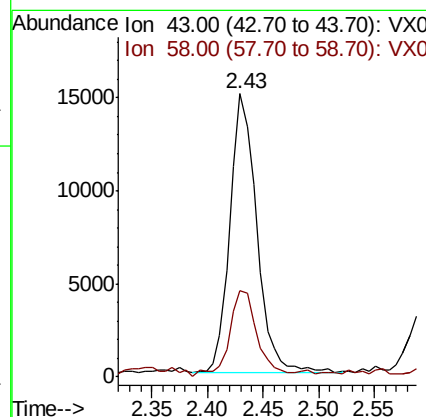
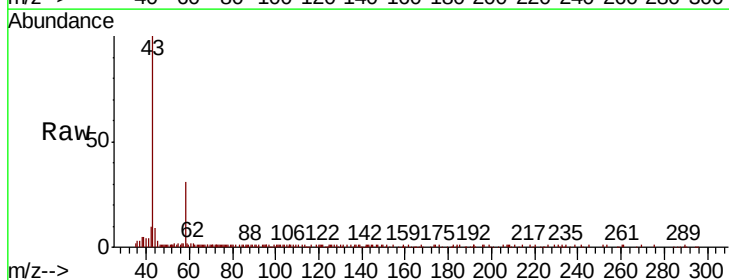
Instrument :
MSVOA_X
ClientSampled :
F06031

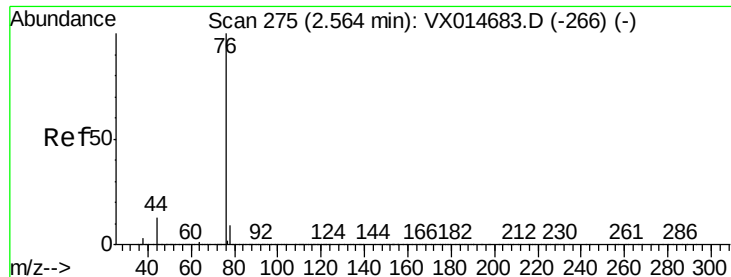
Tot Ion: 56 Resp: 798
Ion Ratio Lower Upper
56 100
55 28.4 56.6 84.8#



#16
Acetone
Concen: 9.329 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX014805.D
Acq: 04 Feb 2020 13:39

Tgt Ion: 43 Resp: 24969
Ion Ratio Lower Upper
43 100
58 31.1 24.5 36.7





#17

Carbon Disulfide

Concen: 0.235 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.01 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

Instrument :

MSVOA_X

ClientSampled :

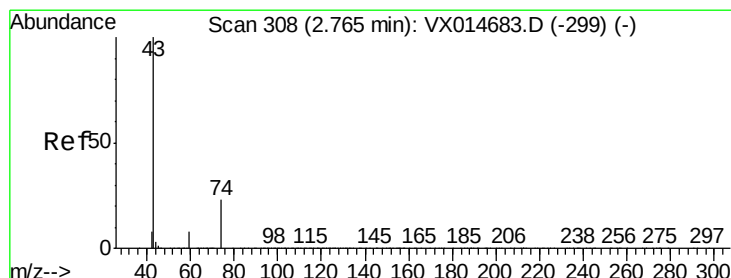
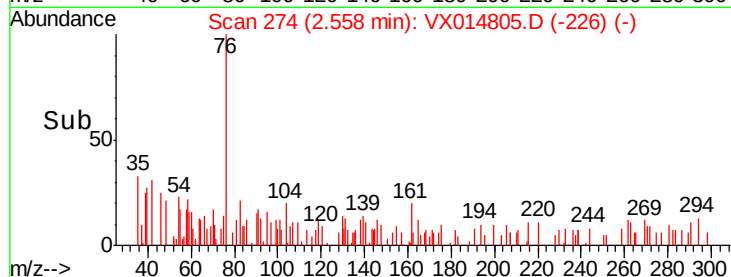
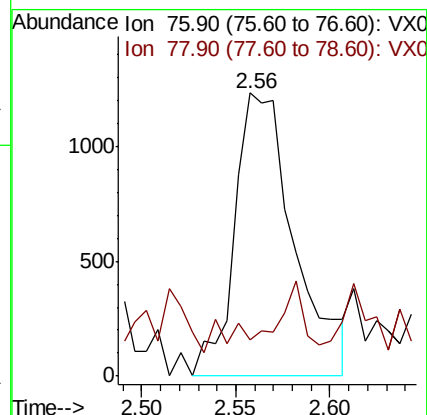
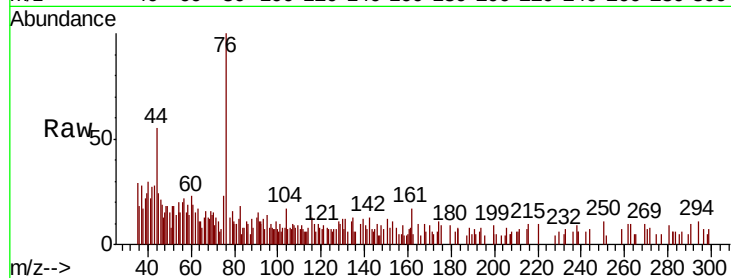
F06031

Tot Ion: 76 Resp: 2713

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



#18

Methyl Acetate

Concen: 0.460 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014805.D

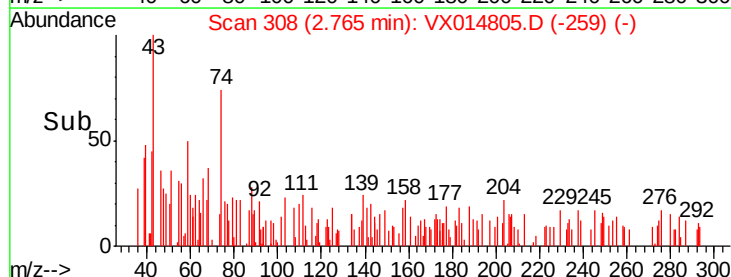
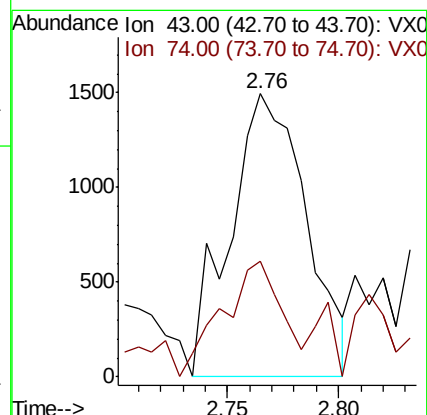
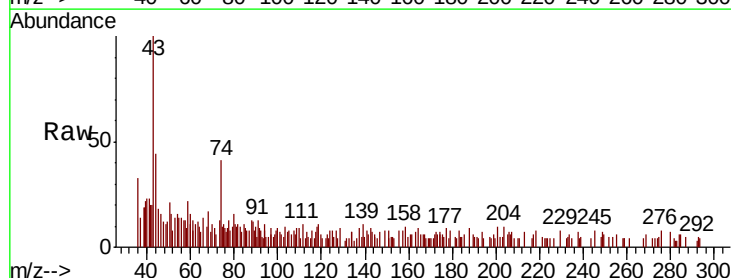
Acq: 04 Feb 2020 13:39

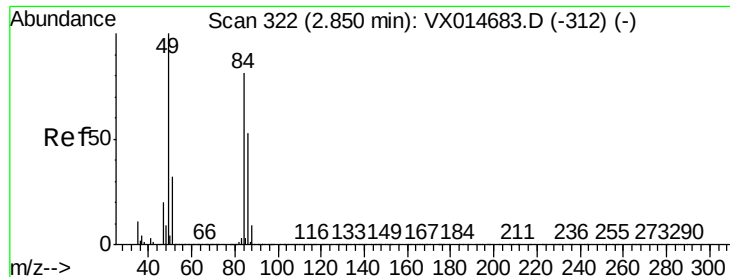
Tgt Ion: 43 Resp: 3568

Ion Ratio Lower Upper

43 100

74 32.0 18.5 27.7#





#20

Methylene Chloride

Concen: 0.324 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.01 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

Instrument :

MSVOA_X

ClientSampled :

F06031

Tot Ion: 84 Resp: 1631

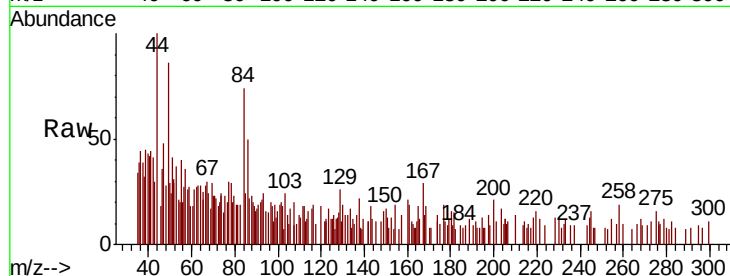
Ion Ratio Lower Upper

84 100

49 76.7 98.2 147.4#

51 46.0 31.3 46.9

86 38.1 51.8 77.6#

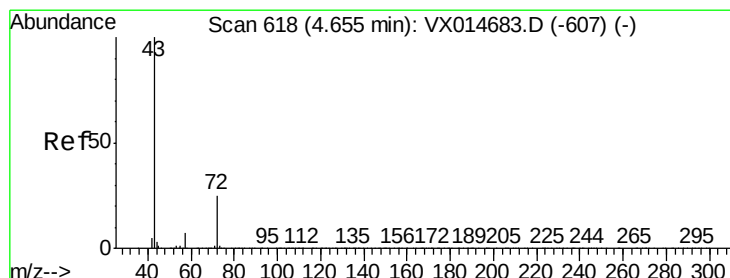
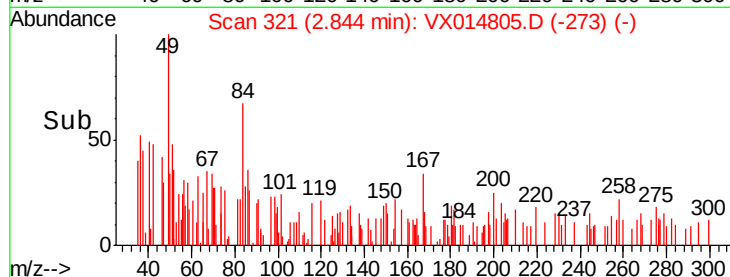
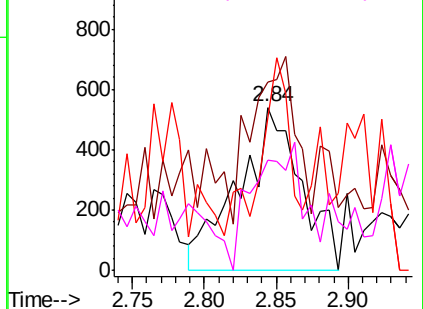


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.405 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX014805.D

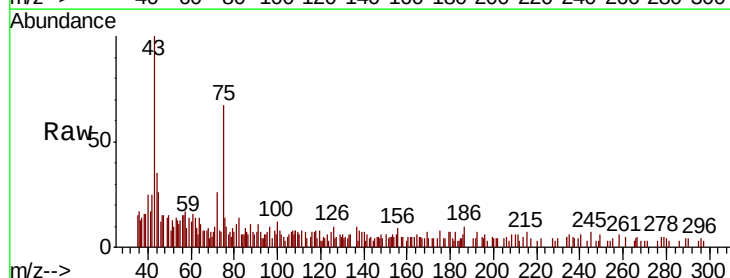
Acq: 04 Feb 2020 13:39

Tgt Ion: 43 Resp: 5474

Ion Ratio Lower Upper

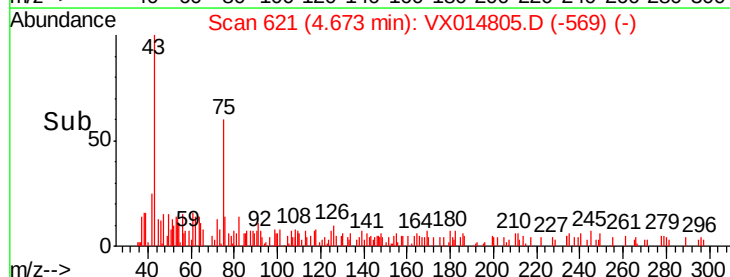
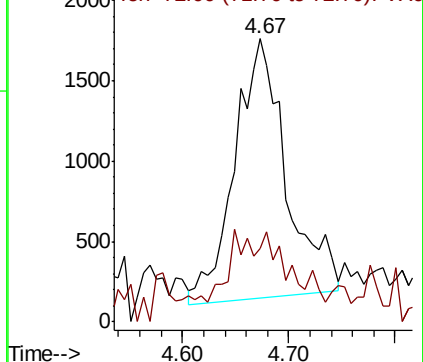
43 100

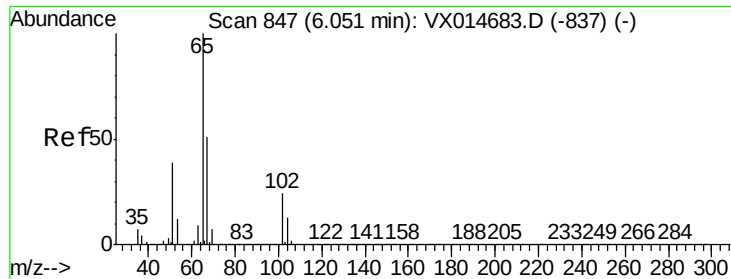
72 18.8 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

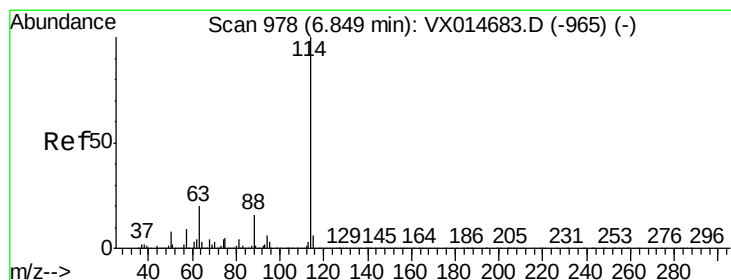
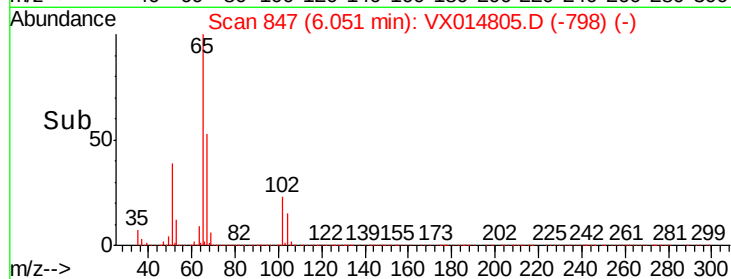
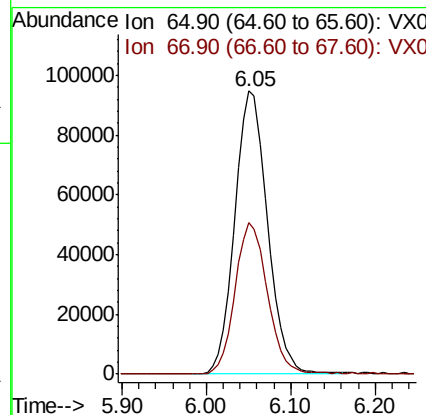
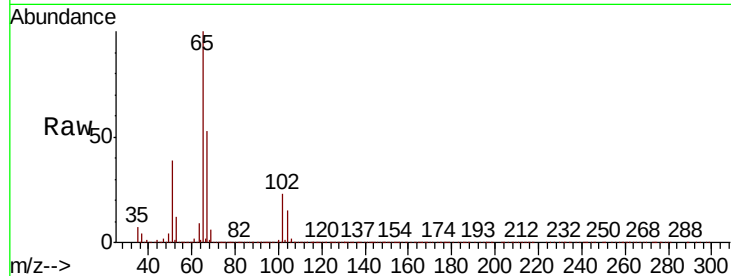




#33
 1,2-Dichloroethane-d4
 Concen: 50.008 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014805.D
 Acq: 04 Feb 2020 13:39

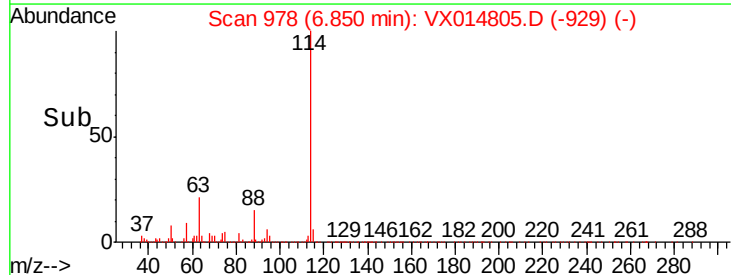
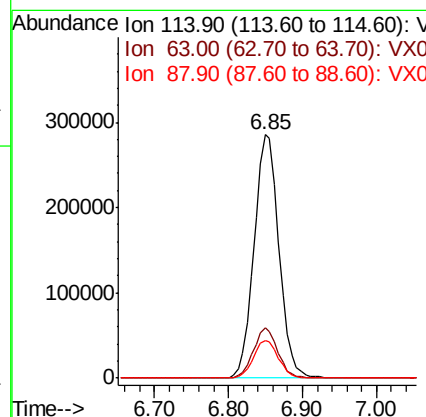
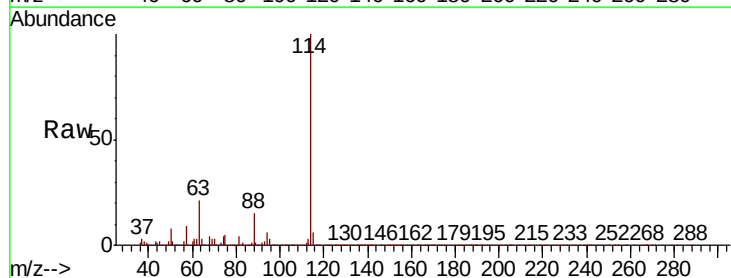
Instrument :
 MSVOA_X
 ClientSampled :
 F06031

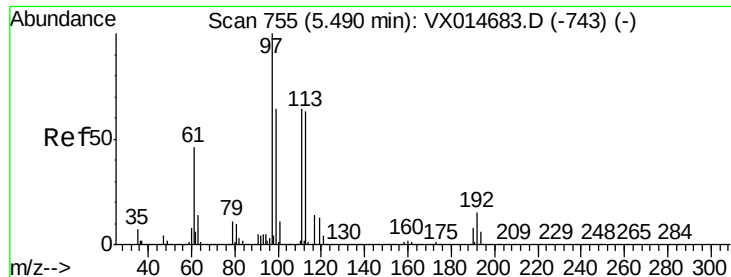
Tot Ion: 65 Resp: 248068
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014805.D
 Acq: 04 Feb 2020 13:39

Tgt Ion: 114 Resp: 668721
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.6
 88 15.4 0.0 31.2

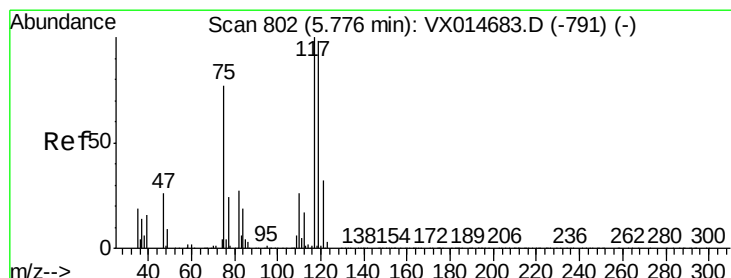
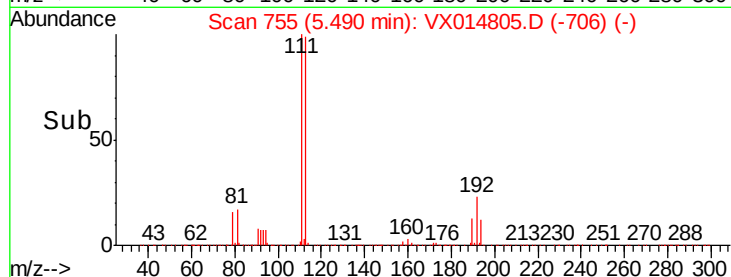
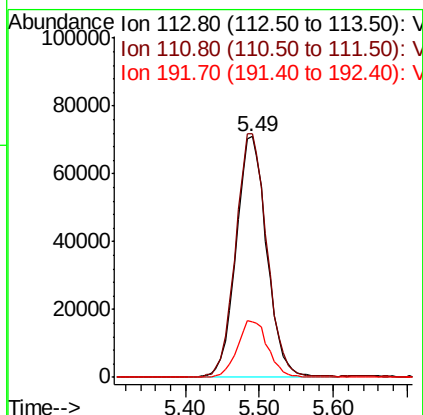
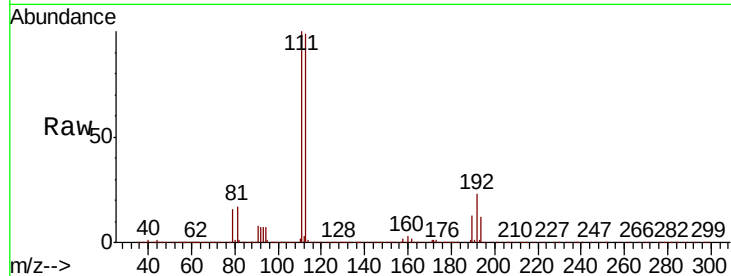




#35
Dibromofluoromethane
Concen: 48.680 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX014805.D
Acq: 04 Feb 2020 13:39

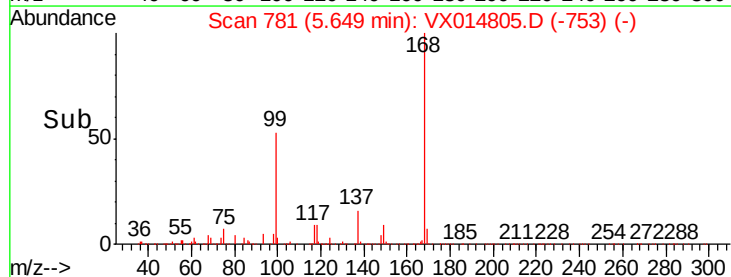
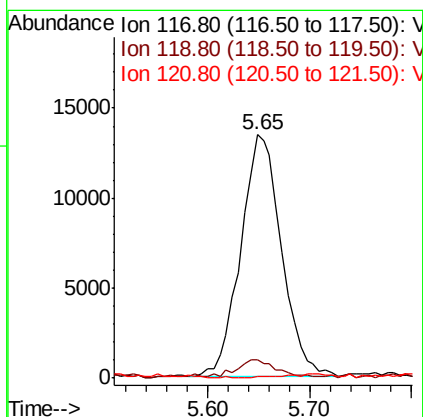
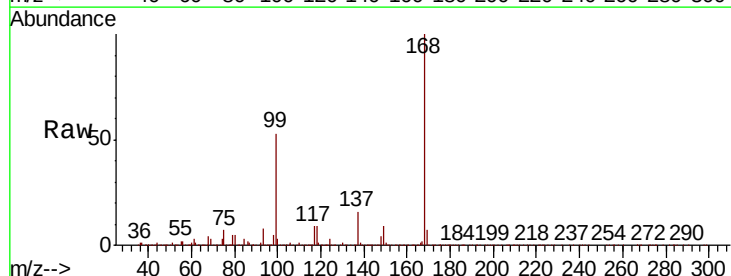
Instrument :
MSVOA_X
ClientSampleId :
F06031

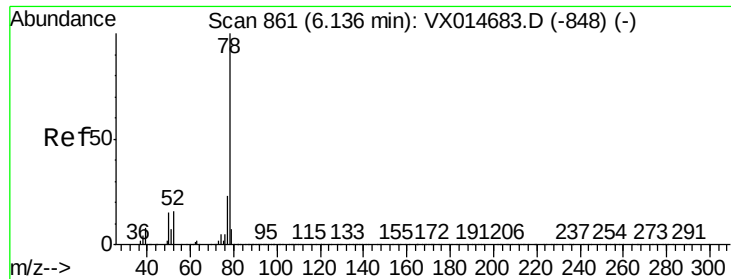
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	80.7	121.1
192	23.4	18.5	27.7



#38
Carbon Tetrachloride
Concen: 6.333 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX014805.D
Acq: 04 Feb 2020 13:39

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.8	77.9	116.9#
121	0.0	25.4	38.2#





#40

Benzene

Concen: 0.845 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.00 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

Instrument :

MSVOA_X

ClientSampled :

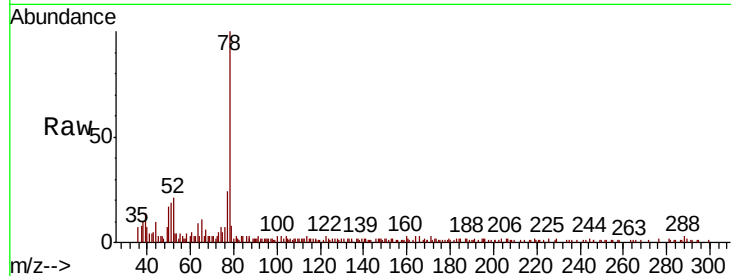
F06031

Tot Ion: 78 Resp: 16229

Ion Ratio Lower Upper

78 100

77 21.5 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.14

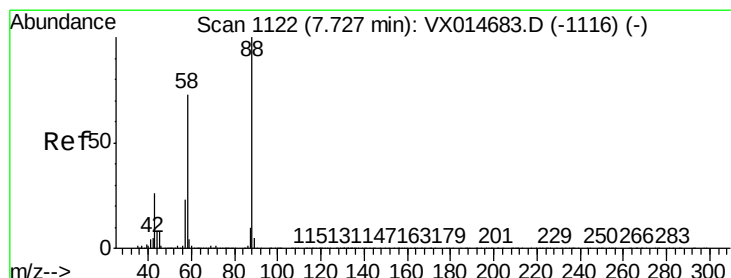
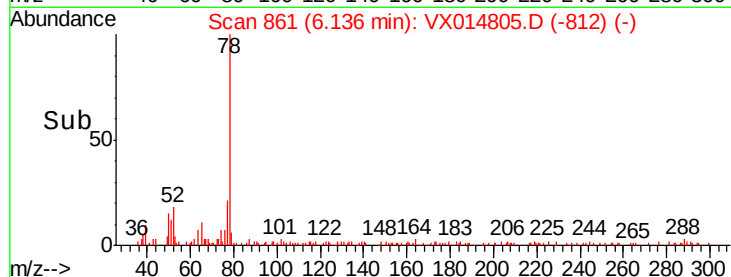
6000

4000

2000

0

Time--> 6.00 6.10 6.20



#49

1,4-Dioxane

Concen: 1.152 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

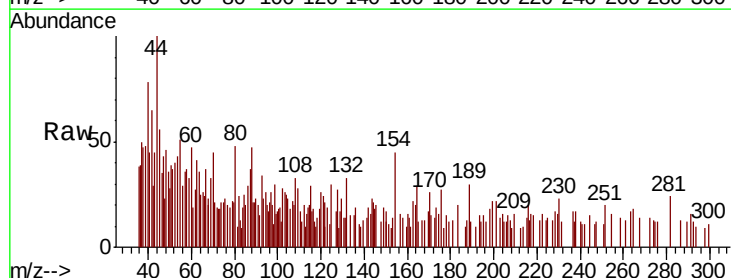
Tgt Ion: 88 Resp: 136

Ion Ratio Lower Upper

88 100

43 82.4 26.2 39.2#

58 63.2 56.6 85.0



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

800

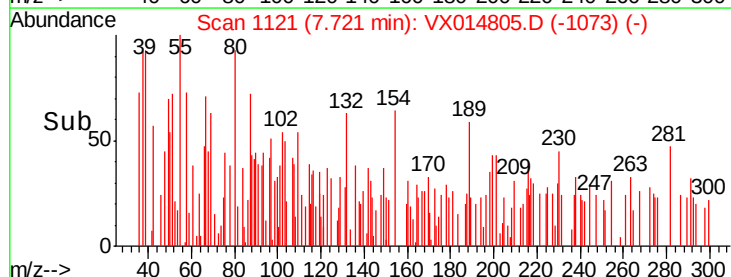
600

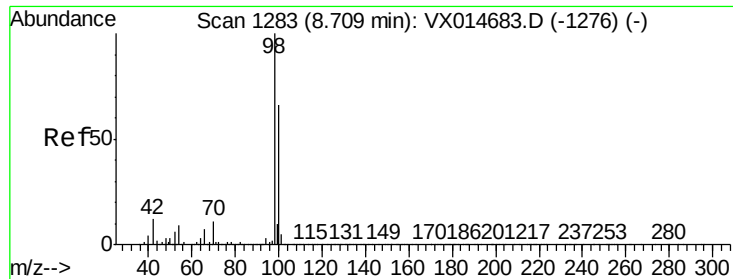
400

200

0

Time--> 7.70 7.71 7.72 7.73

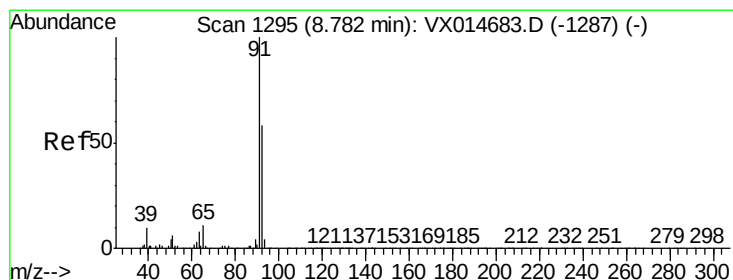
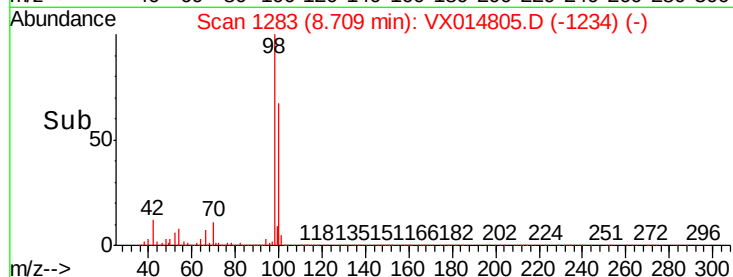
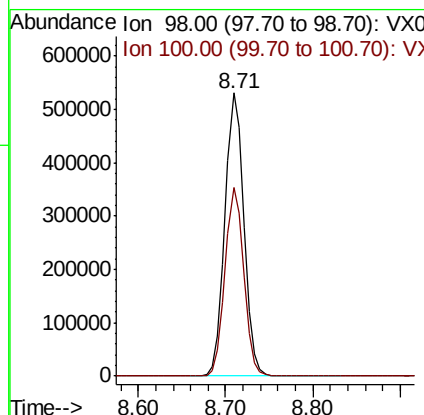
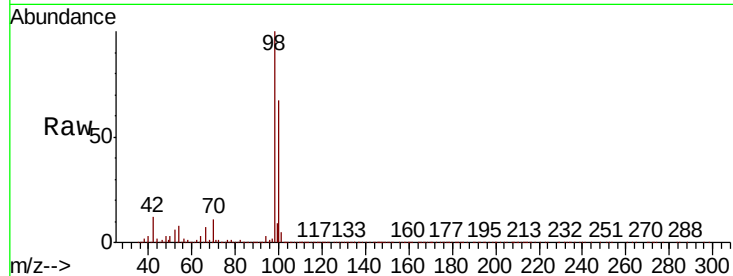




#50
Toluene-d8
Concen: 49.107 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014805.D
Acq: 04 Feb 2020 13:39

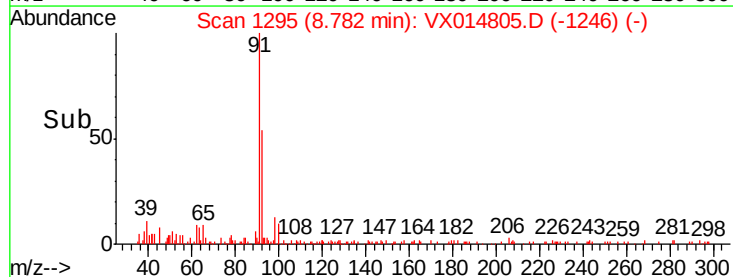
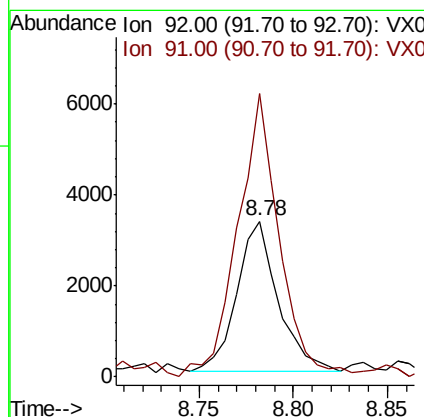
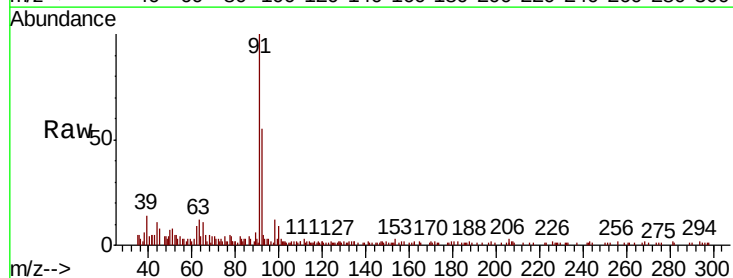
Instrument :
MSVOA_X
ClientSampleId :
F06031

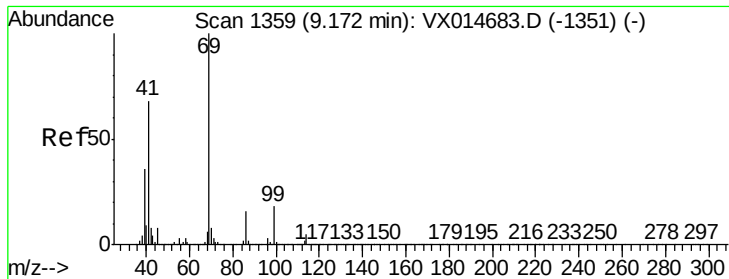
Tot Ion: 98 Resp: 796603
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.6



#52
Toluene
Concen: 0.425 ug/l
RT: 8.78 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VX014805.D
Acq: 04 Feb 2020 13:39

Tgt Ion: 92 Resp: 5011
Ion Ratio Lower Upper
92 100
91 189.9 135.9 203.9





#56

Ethyl methacrylate

Concen: 1.801 ug/l

RT: 9.17 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

Instrument :

MSVOA_X

ClientSampleID :

F06031

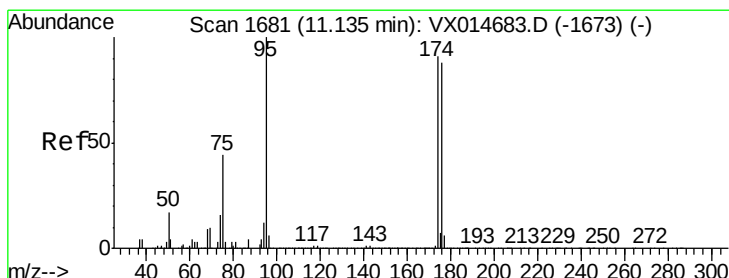
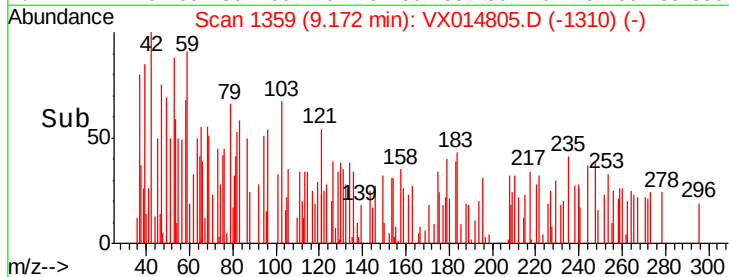
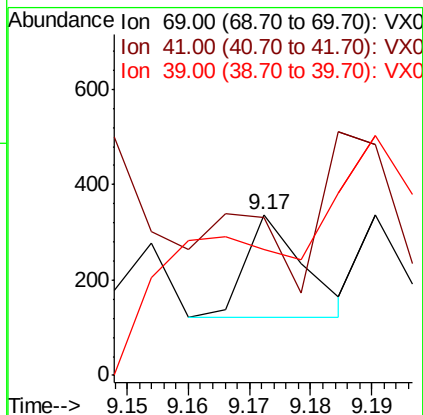
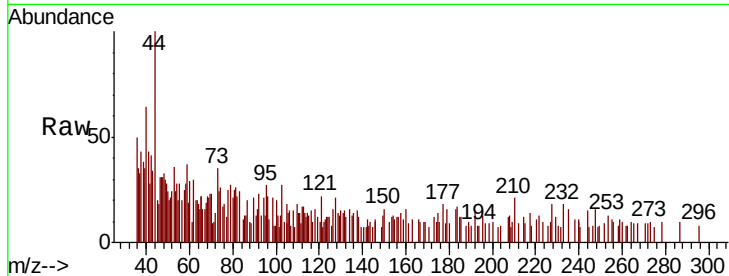
Tot Ion: 69 Resp: 140

Ion Ratio Lower Upper

69 100

41 0.0 54.9 82.3#

39 336.4 29.3 43.9#



#62

4-Bromofluorobenzene

Concen: 48.115 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

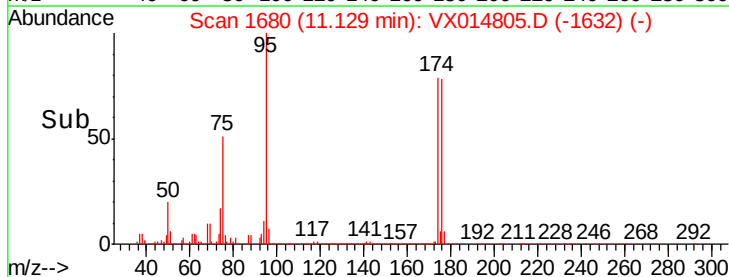
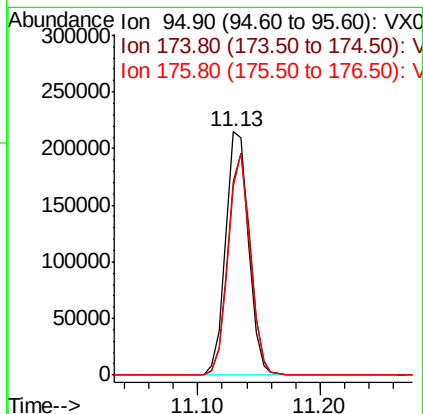
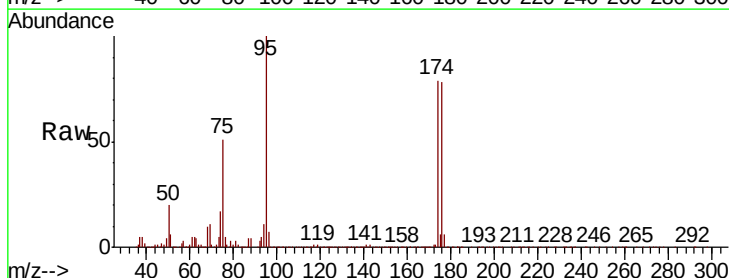
Tgt Ion: 95 Resp: 278034

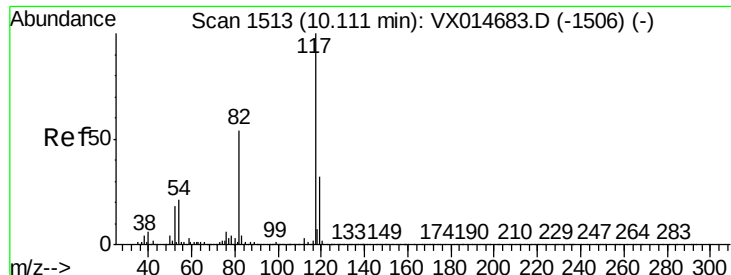
Ion Ratio Lower Upper

95 100

174 89.4 0.0 176.0

176 86.9 0.0 172.2

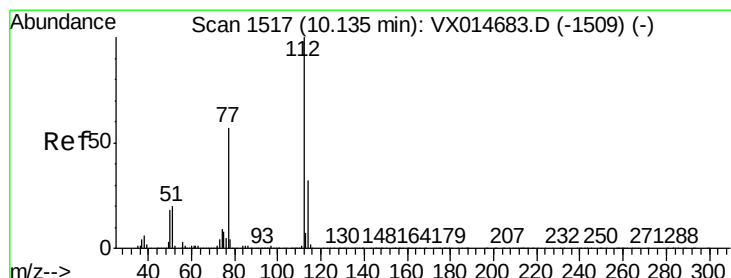
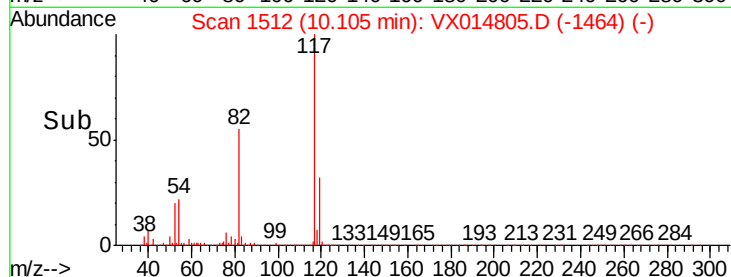
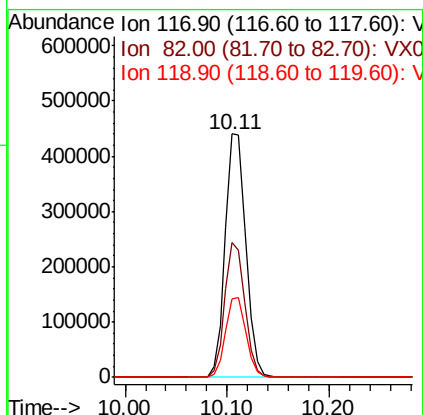
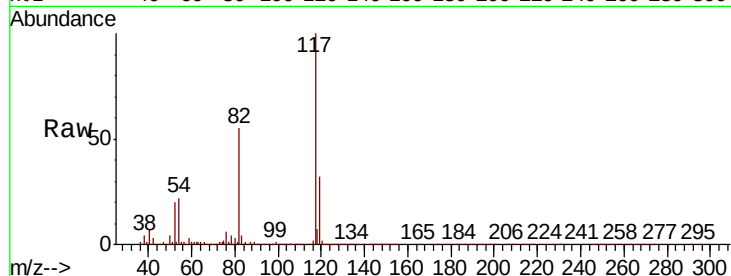




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014805.D
Acq: 04 Feb 2020 13:39

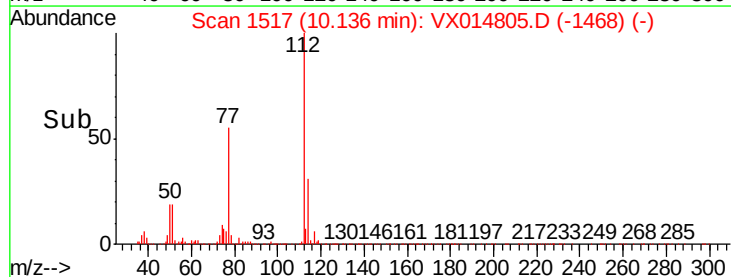
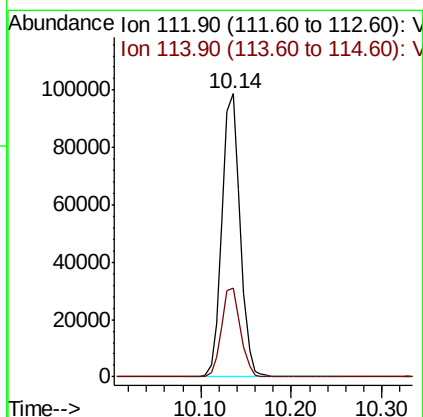
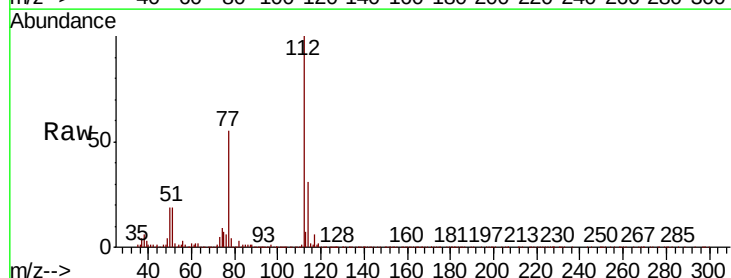
Instrument :
MSVOA_X
ClientSampled :
F06031

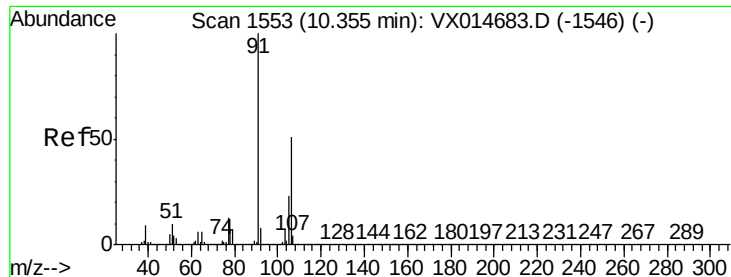
Tot Ion:117 Resp: 618441
Ion Ratio Lower Upper
117 100
82 55.1 43.2 64.8
119 32.4 25.8 38.6



#65
Chlorobenzene
Concen: 10.507 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VX014805.D
Acq: 04 Feb 2020 13:39

Tgt Ion:112 Resp: 138992
Ion Ratio Lower Upper
112 100
114 31.3 25.8 38.8





#68

m/p-Xvlenes

Concen: 0.229 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

Instrument :

MSVOA_X

ClientSampled :

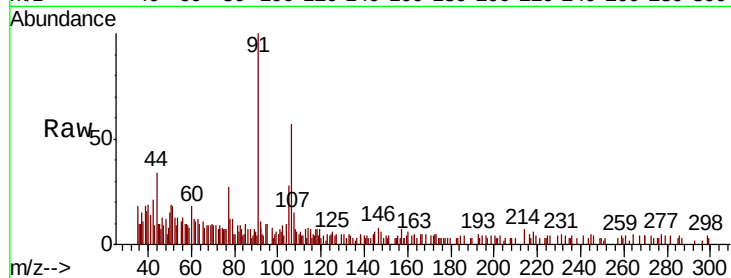
F06031

Tot Ion:106 Resp: 1956

Ion Ratio Lower Upper

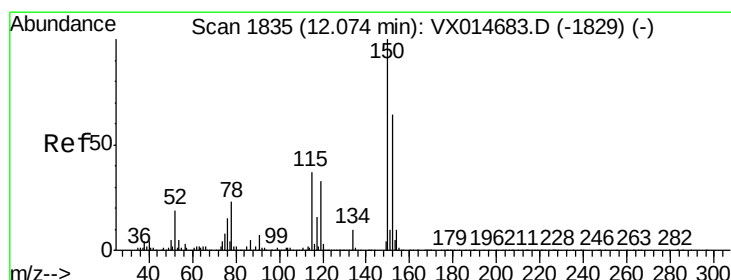
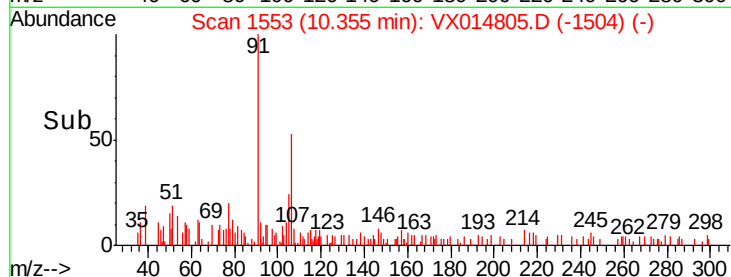
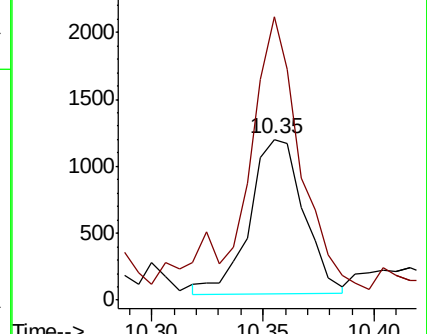
106 100

91 174.8 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

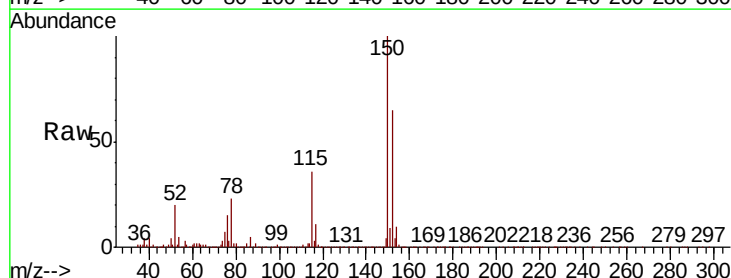
Tgt Ion:152 Resp: 295165

Ion Ratio Lower Upper

152 100

115 54.8 39.4 118.1

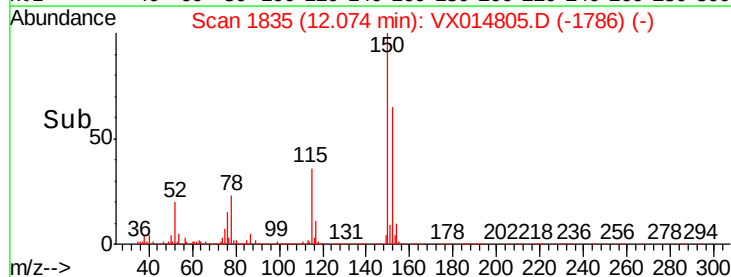
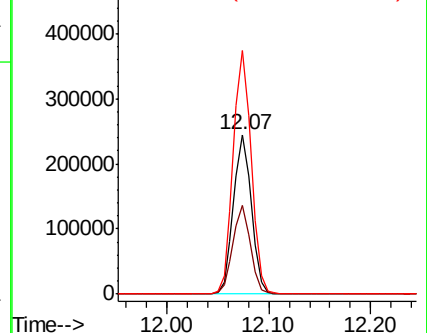
150 154.5 0.0 351.2

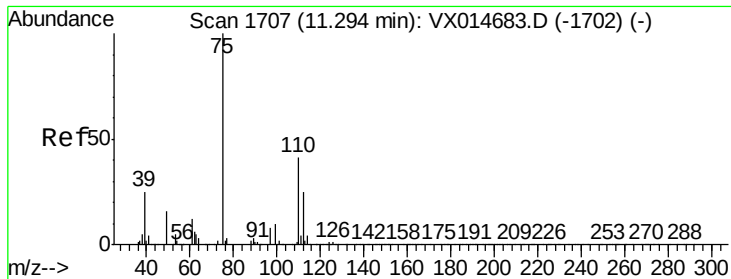


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.347 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

Instrument :

MSVOA_X

ClientSampleId :

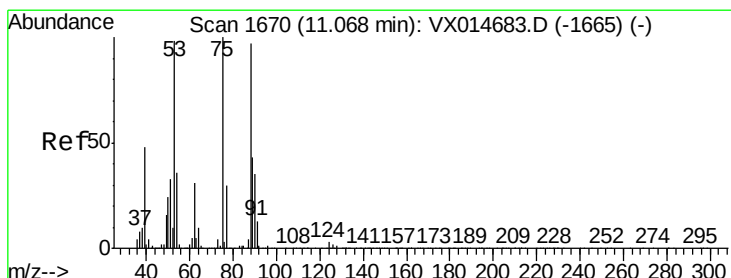
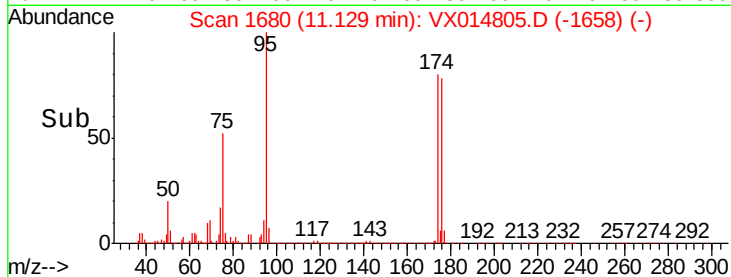
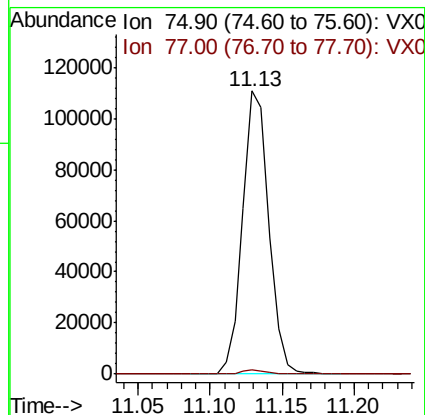
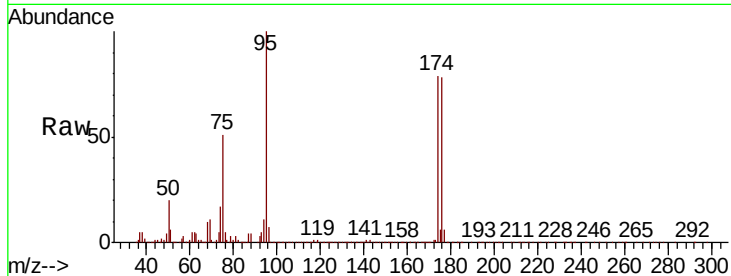
F06031

Tot Ion: 75 Resp: 139725

Ion Ratio Lower Upper

75 100

77 1.7 18.7 56.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.903 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

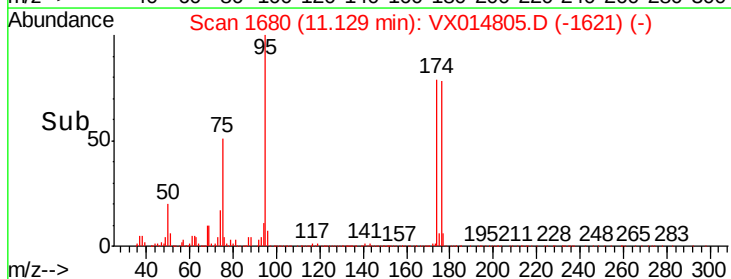
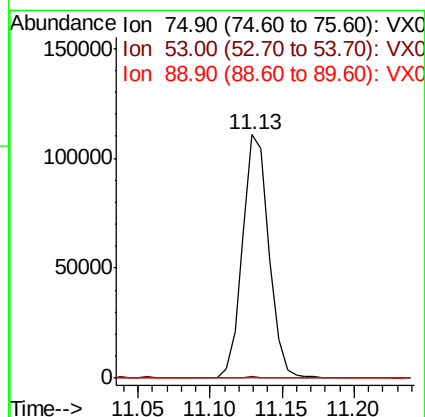
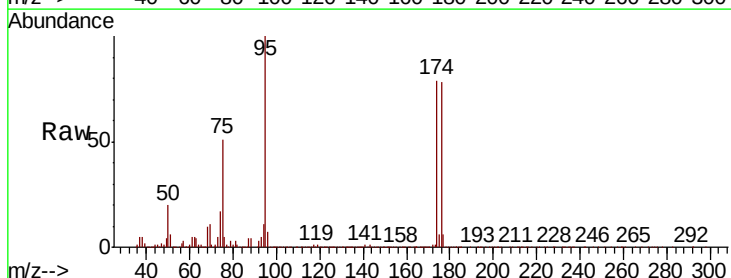
Tgt Ion: 75 Resp: 139725

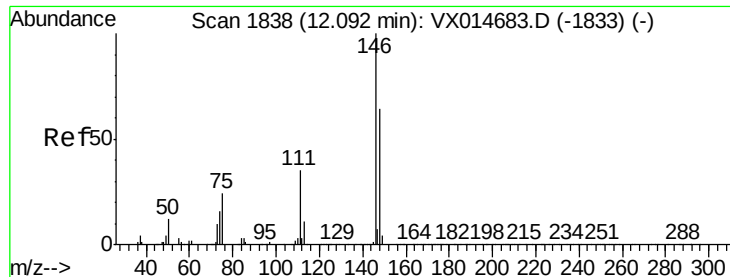
Ion Ratio Lower Upper

75 100

53 0.2 78.8 118.2#

89 0.1 35.4 53.0#





#88

1,4-Dichlorobenzene

Concen: 0.560 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

Instrument :

MSVOA_X

ClientSampleId :

F06031

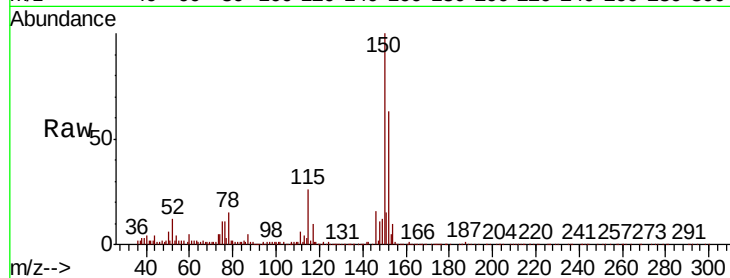
Tot Ion:146 Resp: 5616

Ion Ratio Lower Upper

146 100

111 0.0 18.6 55.8#

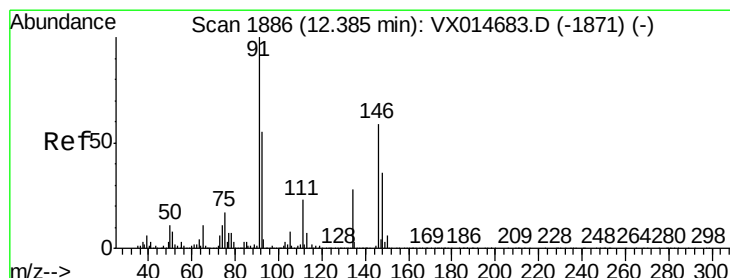
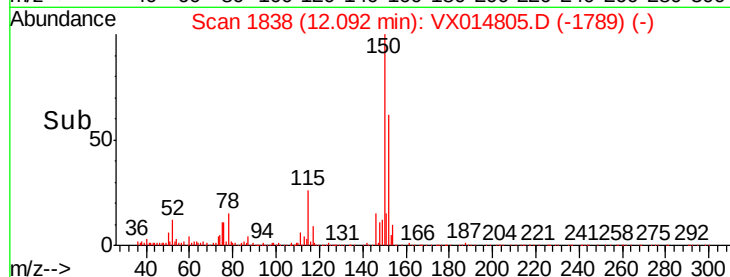
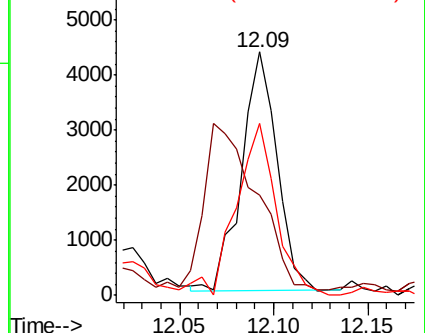
148 82.4 32.0 96.2



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#91

1,2-Dichlorobenzene

Concen: 1.119 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

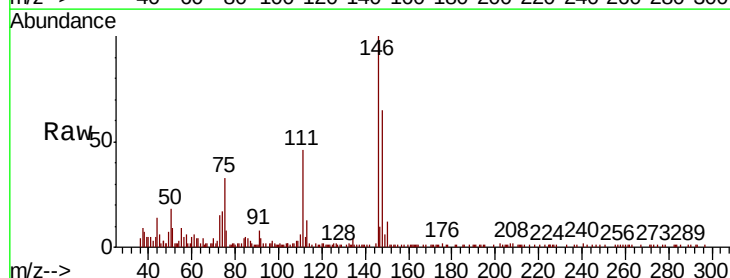
Tgt Ion:146 Resp: 11141

Ion Ratio Lower Upper

146 100

111 42.3 19.6 58.8

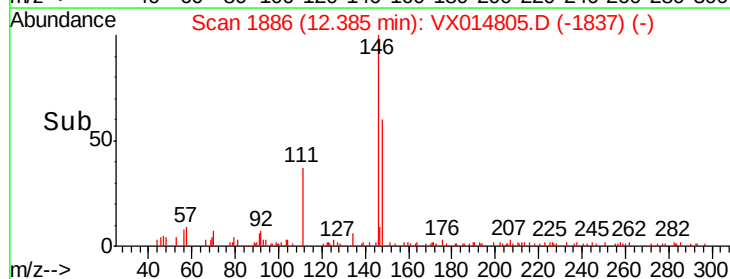
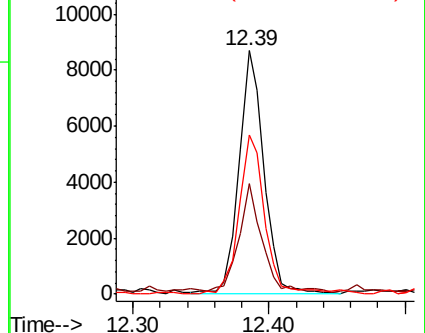
148 67.3 31.9 95.9

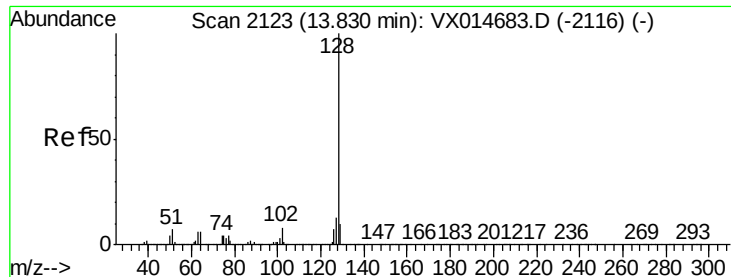


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#95

Naphthalene

Concen: 1.168 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014805.D

Acq: 04 Feb 2020 13:39

Instrument :

MSVOA_X

ClientSampleId :

F06031

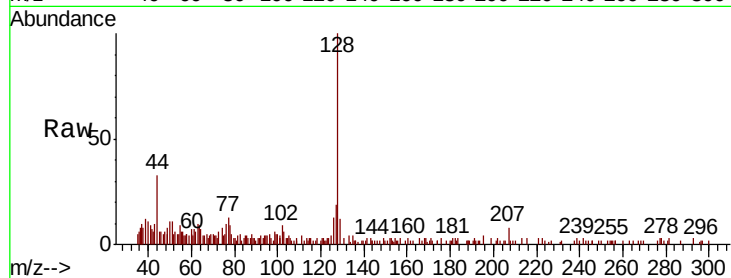
Tot Ion:128 Resp: 4980

Ion Ratio Lower Upper

128 100

127 27.3 10.3 15.5#

129 13.9 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

