

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030818\
 Data File : VX000218.D
 Acq On : 08 Mar 2018 12:31
 Operator : JC/MD
 Sample : J1833-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-180306-02

Quant Time: Mar 08 13:31:28 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 06:17:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	19622	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	118298	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	111406	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	48239	31.77	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.90%
60) 4-Bromofluorobenzene	11.15	95	51322	28.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.87%
63) Toluene-d8	8.72	98	144790	30.34	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.13%

Target Compounds

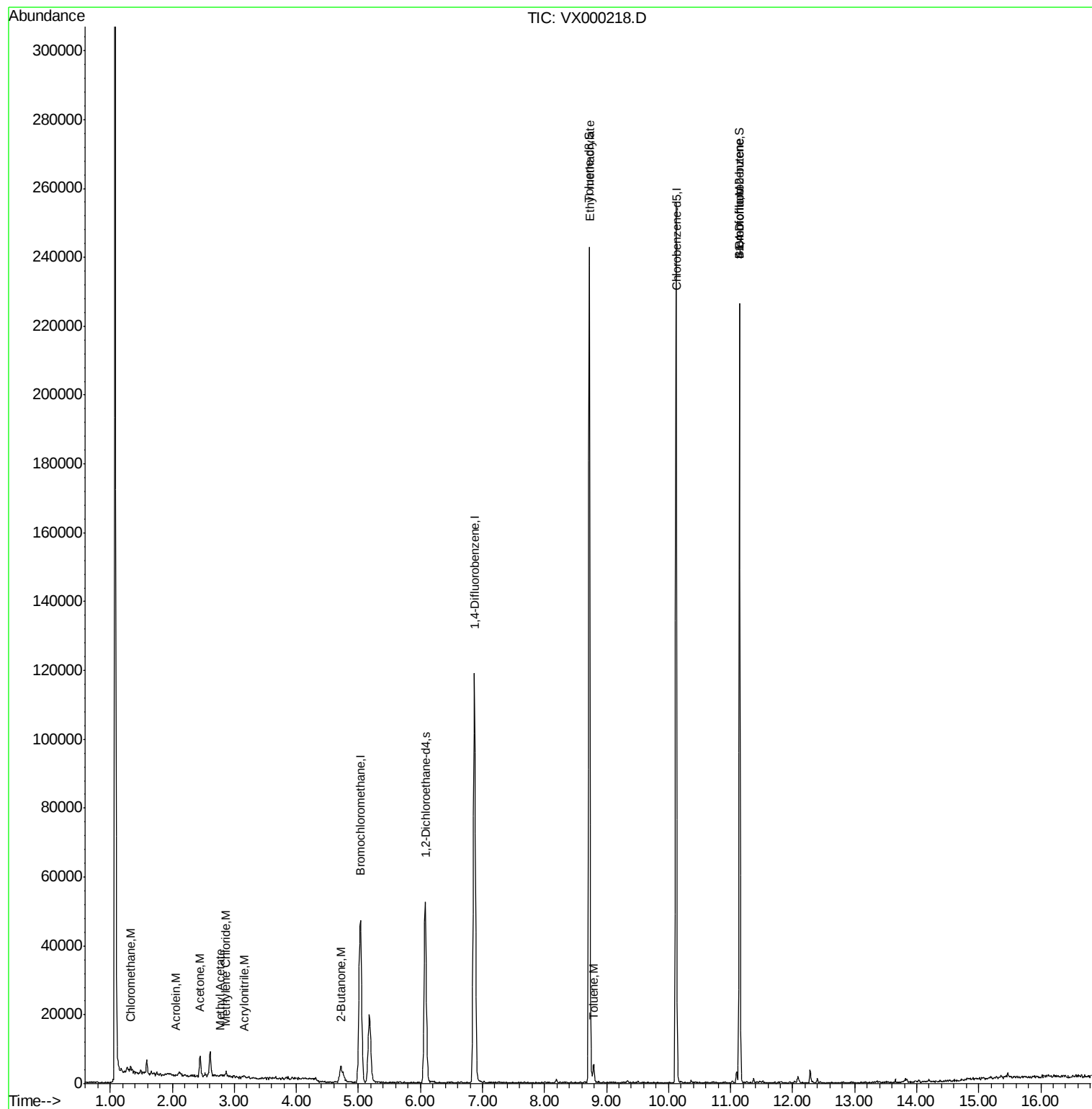
					Ovalue	
3) Chloromethane	1.32	50	705	0.578	ug/l #	81
12) Methyl Acetate	2.78	43	732	0.312	ug/l	94
13) Acrolein	2.07	56	74	0.262	ug/l	100
14) Acrylonitrile	3.15	53	294	0.290	ug/l	91
15) Acetone	2.45	58	1830	5.529	ug/l #	61
18) Methylene Chloride	2.87	84	593	0.415	ug/l #	90
30) 2-Butanone	4.72	43	7771	5.860	ug/l #	97
51) Ethyl methacrylate	8.73	69	577	0.269	ug/l #	56
56) Bromoform	11.15	173	560	0.444	ug/l #	1
62) Toluene	8.79	91	2859	0.493	ug/l	94
77) t-1,4-Dichloro-2-butene	11.15	75	29644	39.882	ug/l #	11

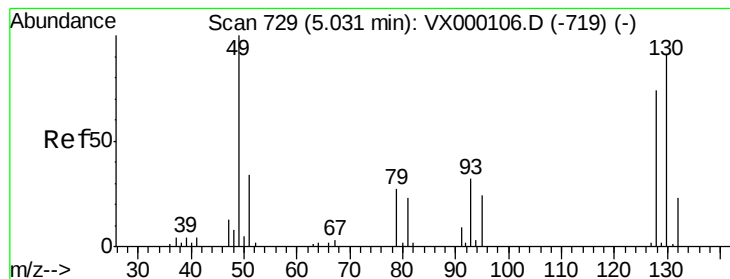
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Feb 21 06:17:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.03 min Scan# 729

Delta R.T. 0.00 min

Lab File: VX000218.D

Acq: 08 Mar 2018 12:31

Instrument :

MSVOA_X

ClientSampled :

EFF-180306-02

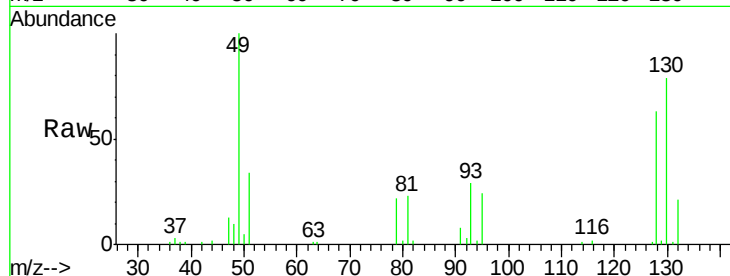
Tot Ion:128 Resp: 19622

Ion Ratio Lower Upper

128 100

49 155.3 0.0 378.3

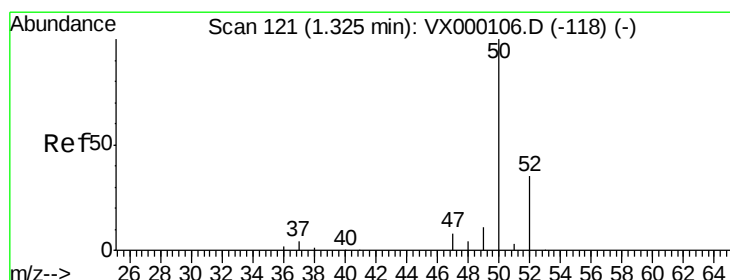
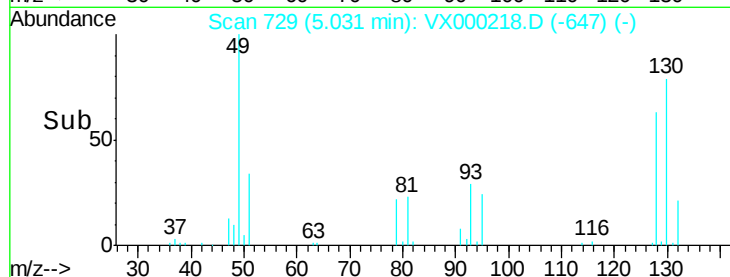
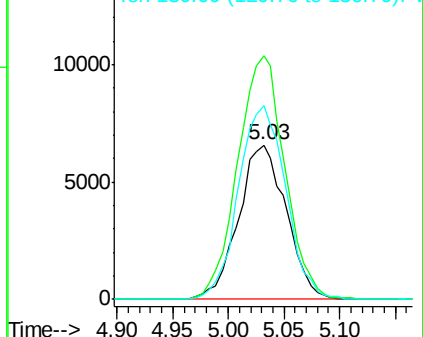
130 123.6 0.0 324.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.578 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX000218.D

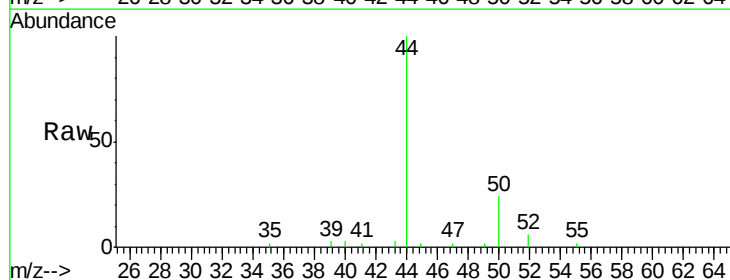
Acq: 08 Mar 2018 12:31

Tgt Ion: 50 Resp: 705

Ion Ratio Lower Upper

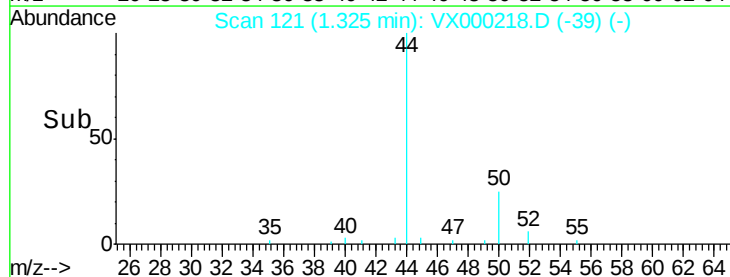
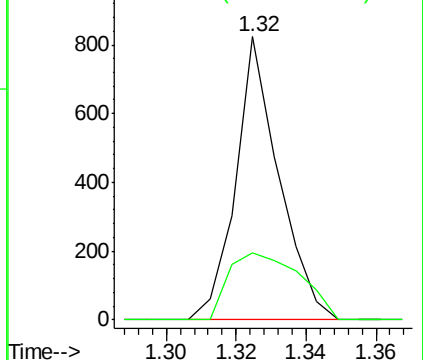
50 100

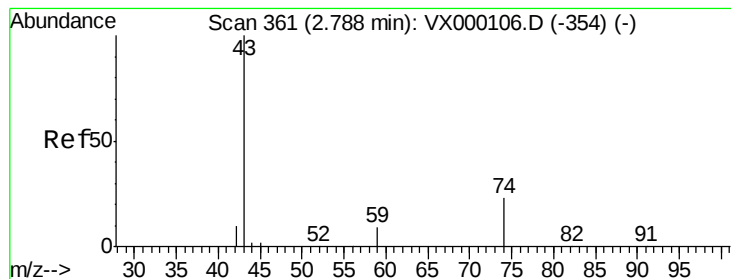
52 23.7 27.8 41.6#



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#12

Methvl Acetate

Concen: 0.312 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.01 min

Lab File: VX000218.D

Acq: 08 Mar 2018 12:31

Instrument :

MSVOA_X

ClientSampleId :

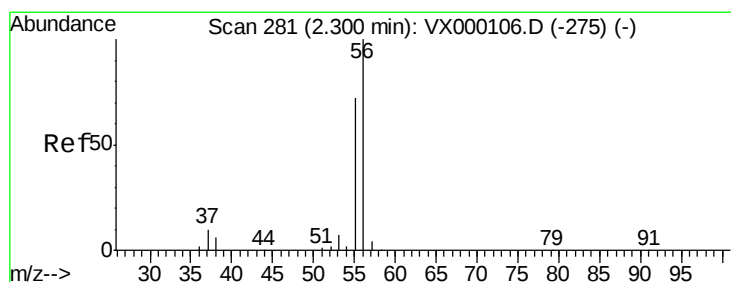
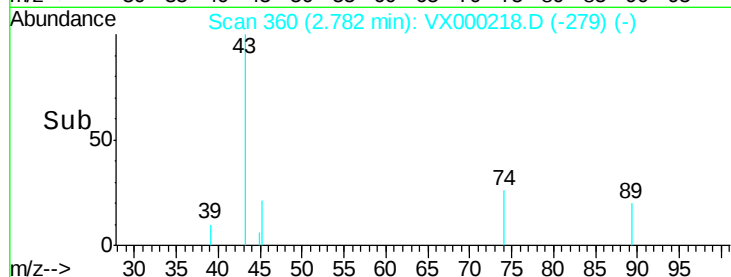
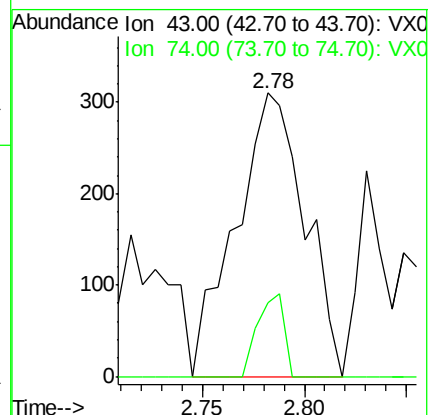
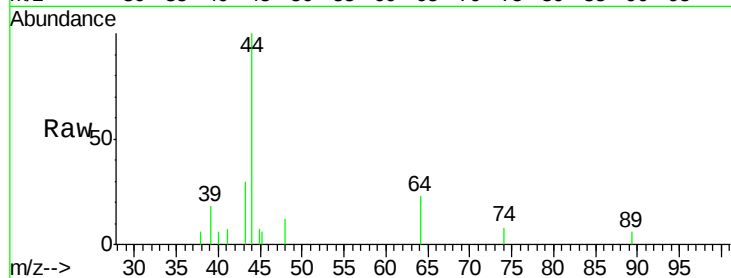
EFF-180306-02

Tot Ion: 43 Resp: 732

Ion Ratio Lower Upper

43 100

74 26.1 18.6 27.8



#13

Acrolein

Concen: 0.262 ug/l

RT: 2.07 min Scan# 243

Delta R.T. -0.23 min

Lab File: VX000218.D

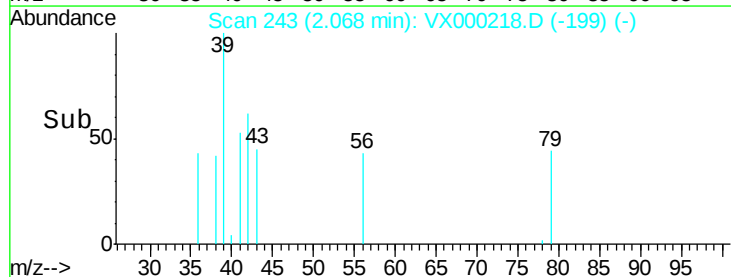
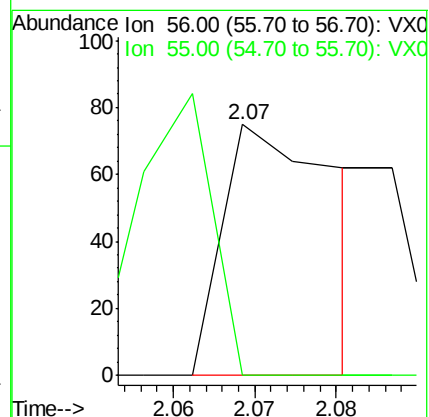
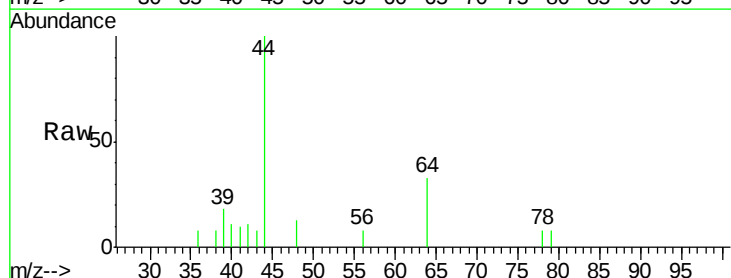
Acq: 08 Mar 2018 12:31

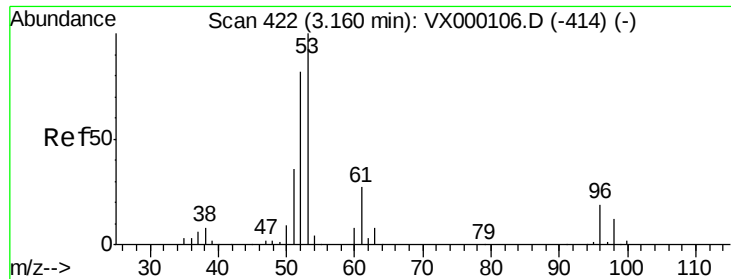
Tgt Ion: 56 Resp: 74

Ion Ratio Lower Upper

56 100

55 71.6 57.3 85.9





#14

Acrylonitrile

Concen: 0.290 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.01 min

Lab File: VX000218.D

Acq: 08 Mar 2018 12:31

Instrument :

MSVOA_X

ClientSampled :

EFF-180306-02

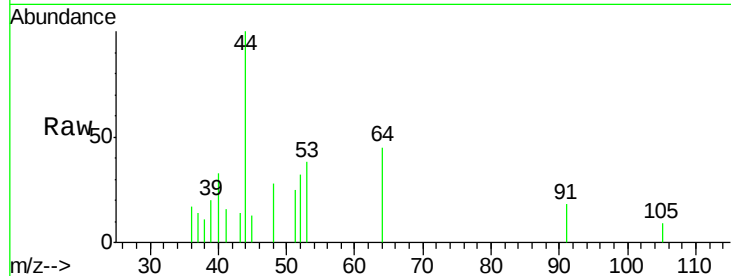
Tot Ion: 53 Resp: 294

Ion Ratio Lower Upper

53 100

52 94.2 41.9 125.8

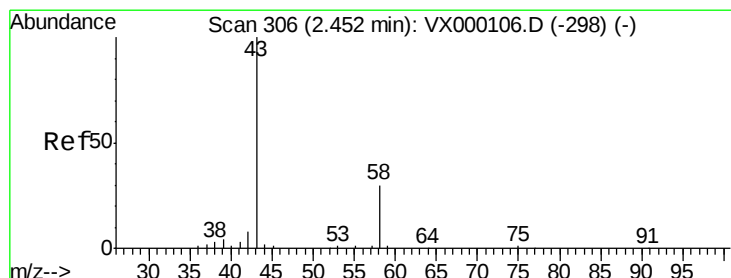
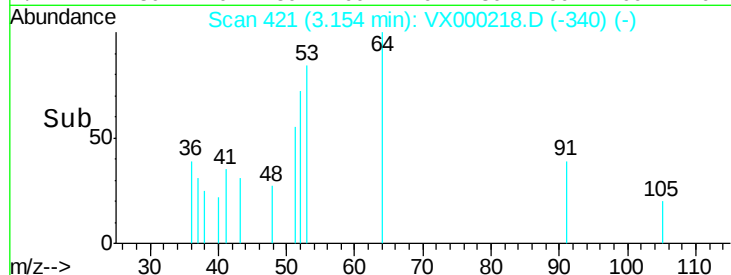
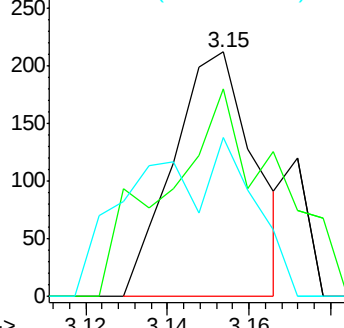
51 35.7 18.8 56.3



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#15

Acetone

Concen: 5.529 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000218.D

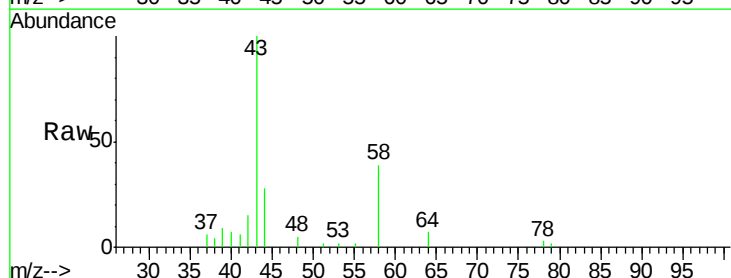
Acq: 08 Mar 2018 12:31

Tgt Ion: 58 Resp: 1830

Ion Ratio Lower Upper

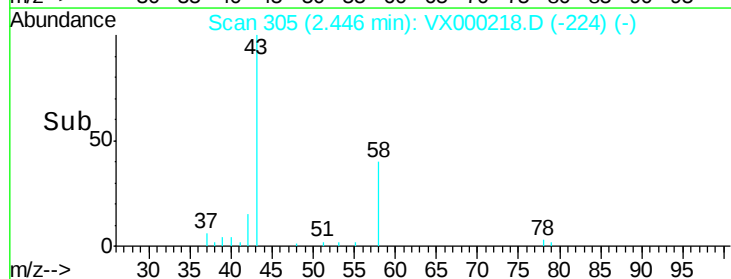
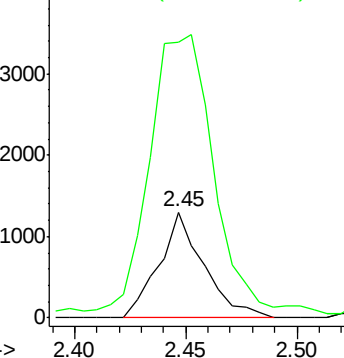
58 100

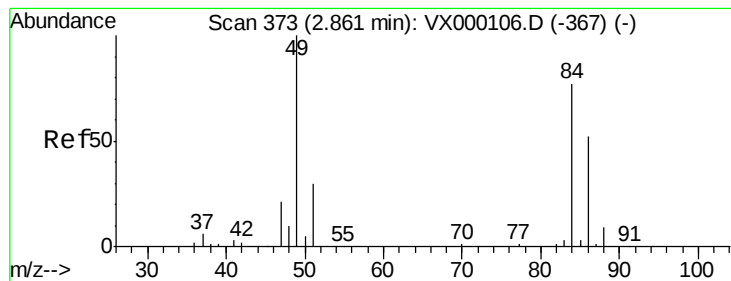
43 249.1 264.6 396.8#



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#18

Methylene Chloride

Concen: 0.415 ug/l

RT: 2.87 min Scan# 374

Delta R.T. 0.01 min

Lab File: VX000218.D

Acq: 08 Mar 2018 12:31

Instrument :

MSVOA_X

ClientSampled :

EFF-180306-02

Tot Ion: 84 Resp: 593

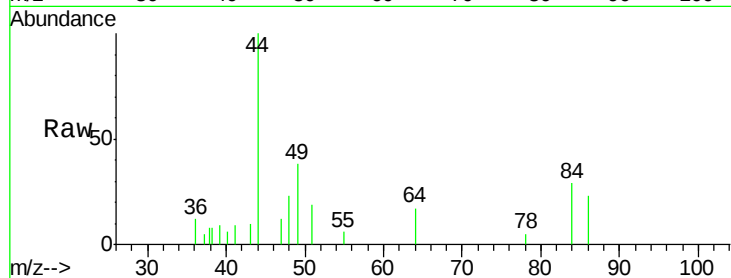
Ion Ratio Lower Upper

84 100

49 134.1 103.3 154.9

51 50.0 31.2 46.8#

86 79.9 53.6 80.4

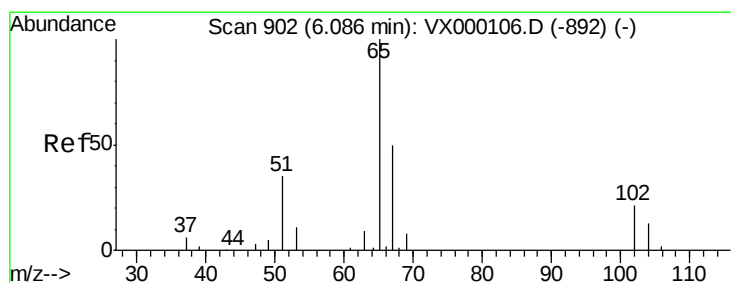
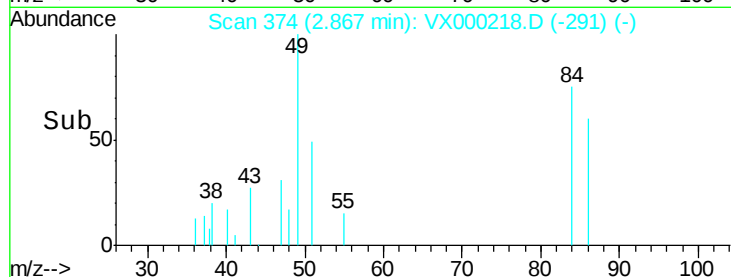
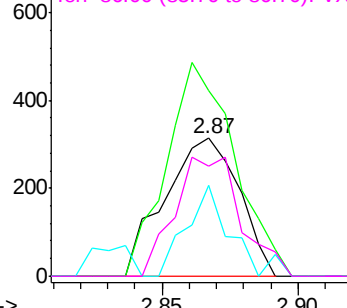


Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 31.765 ug/l

RT: 6.08 min Scan# 901

Delta R.T. -0.01 min

Lab File: VX000218.D

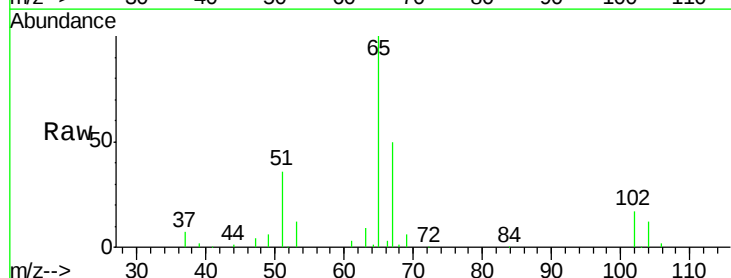
Acq: 08 Mar 2018 12:31

Tgt Ion: 65 Resp: 48239

Ion Ratio Lower Upper

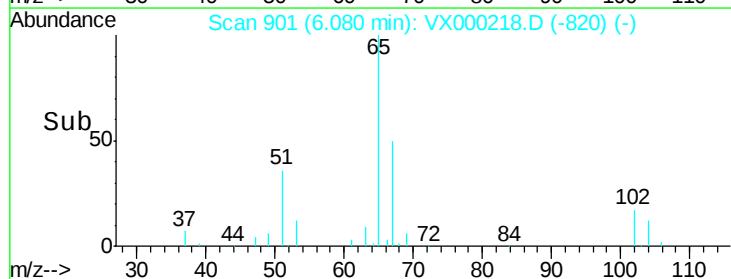
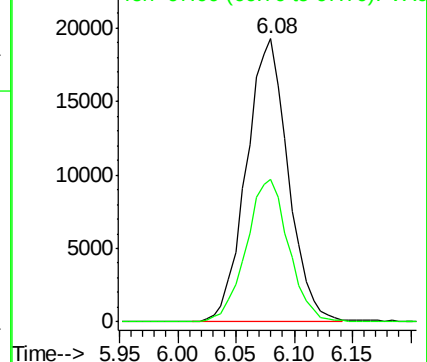
65 100

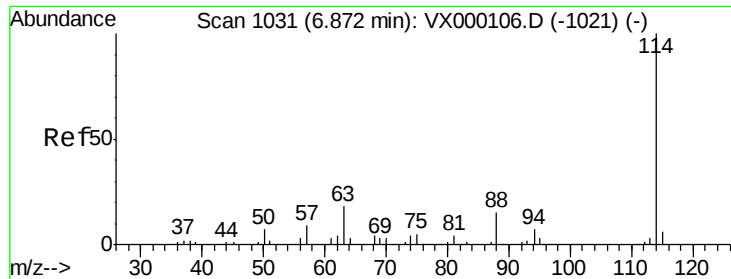
67 50.9 41.4 62.2



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

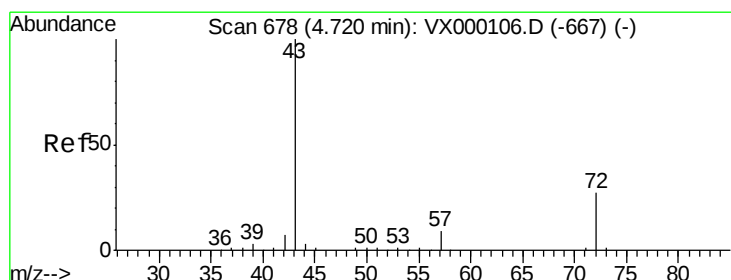
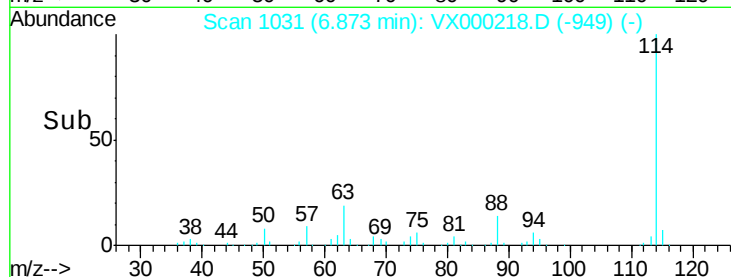
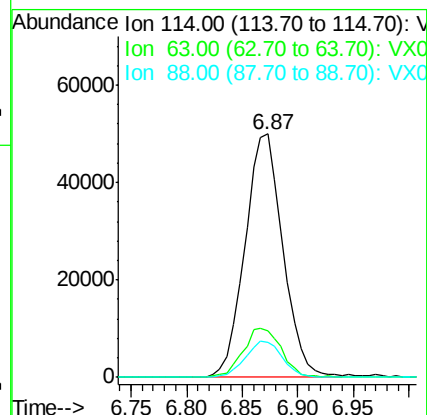
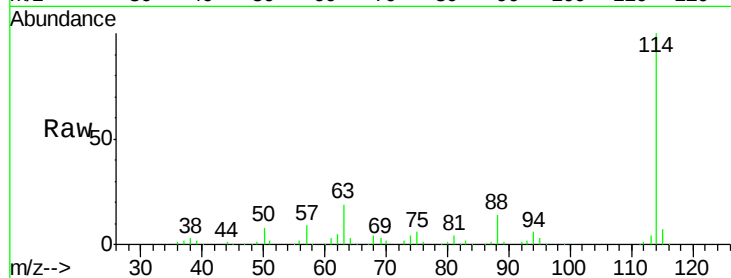




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: VX000218.D
 Acq: 08 Mar 2018 12:31

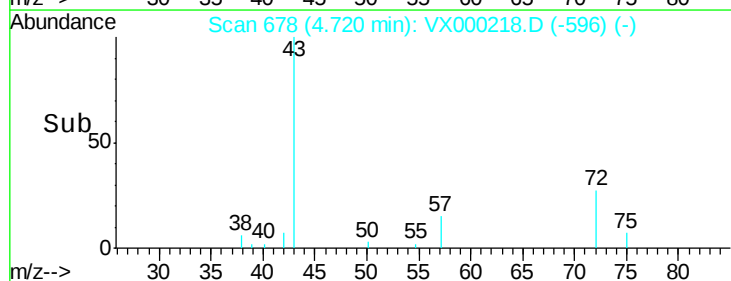
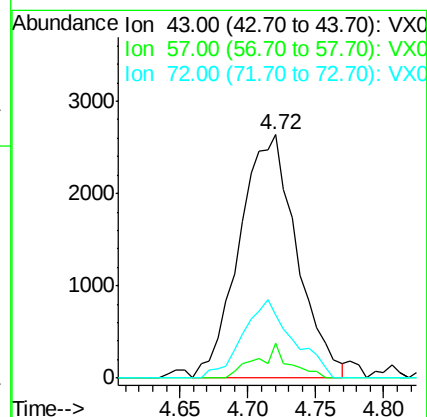
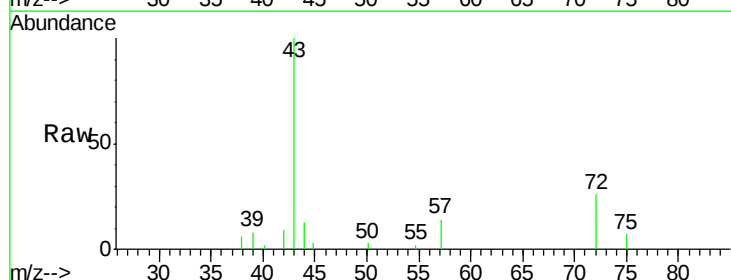
Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-180306-02

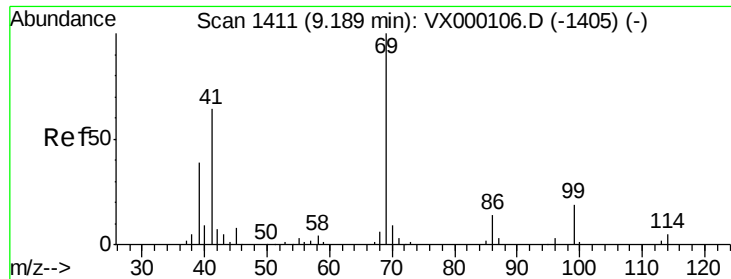
Tot Ion:114 Resp: 118298
 Ion Ratio Lower Upper
 114 100
 63 20.6 15.0 22.4
 88 14.6 11.8 17.8



#30
 2-Butanone
 Concen: 5.860 ug/l
 RT: 4.72 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VX000218.D
 Acq: 08 Mar 2018 12:31

Tgt Ion: 43 Resp: 7771
 Ion Ratio Lower Upper
 43 100
 57 4.4 6.6 10.0#
 72 27.0 21.8 32.6





#51

Ethyl methacrylate

Concen: 0.269 ug/l

RT: 8.73 min Scan# 1336

Delta R.T. -0.46 min

Lab File: VX000218.D

Acq: 08 Mar 2018 12:31

Instrument :

MSVOA_X

ClientSampleId :

EFF-180306-02

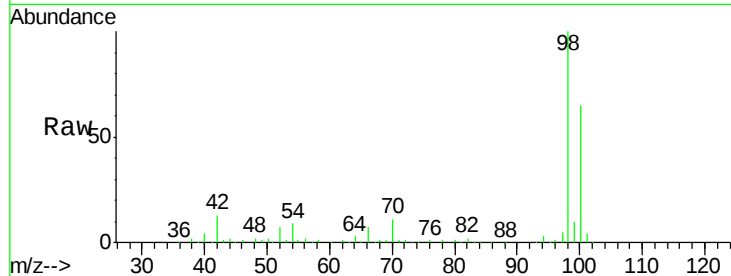
Tot Ion: 69 Resp: 577

Ion Ratio Lower Upper

69 100

41 36.7 32.1 96.3

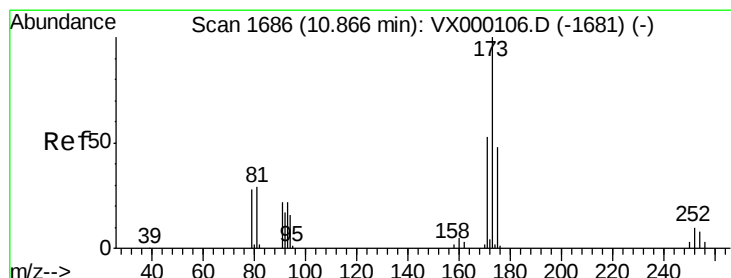
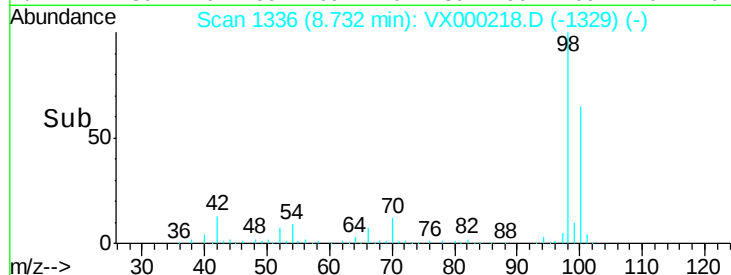
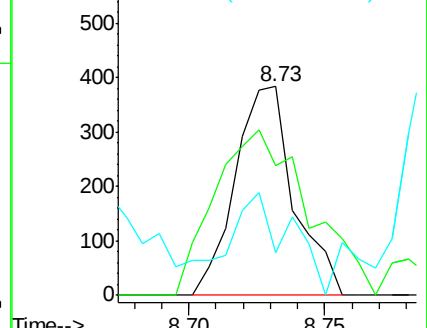
39 3.6 19.6 58.7#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#56

Bromoform

Concen: 0.444 ug/l

RT: 11.15 min Scan# 1733

Delta R.T. 0.29 min

Lab File: VX000218.D

Acq: 08 Mar 2018 12:31

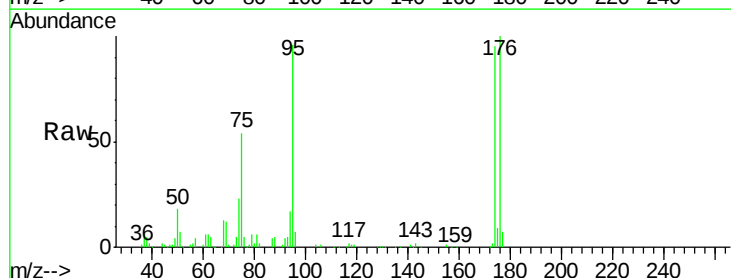
Tgt Ion: 173 Resp: 560

Ion Ratio Lower Upper

173 100

175 603.8 39.0 58.4#

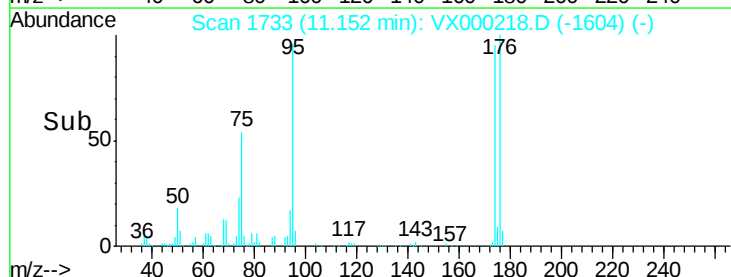
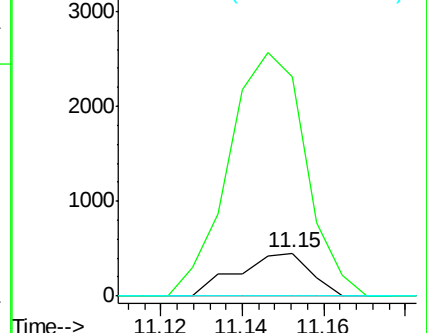
254 0.0 7.0 10.4#

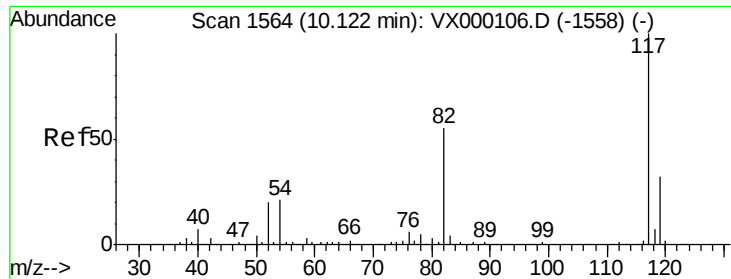


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

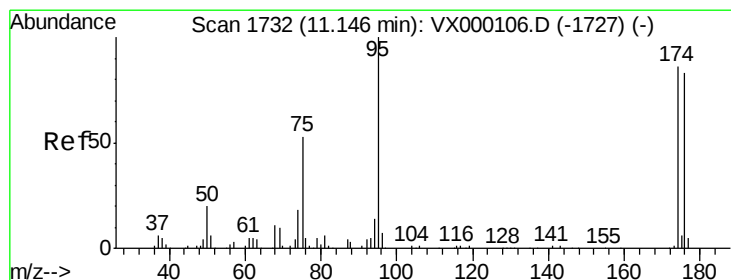
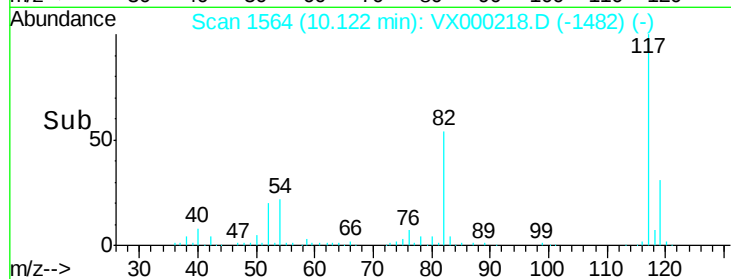
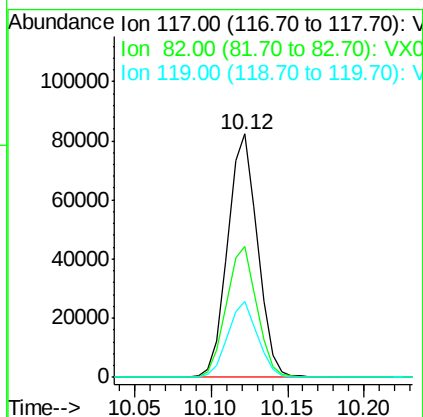
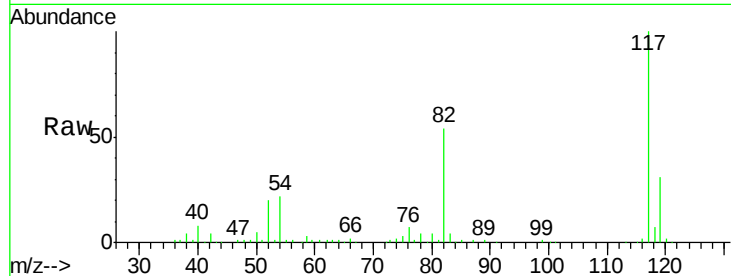




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX000218.D
Acq: 08 Mar 2018 12:31

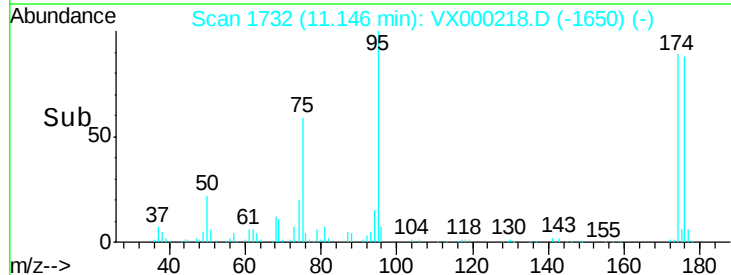
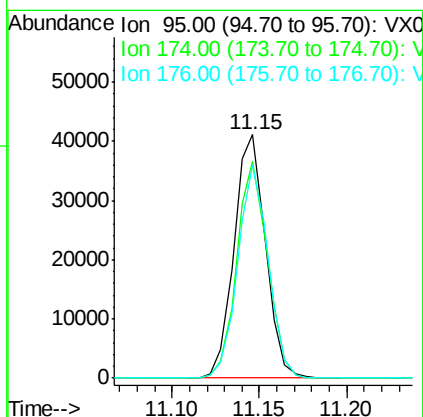
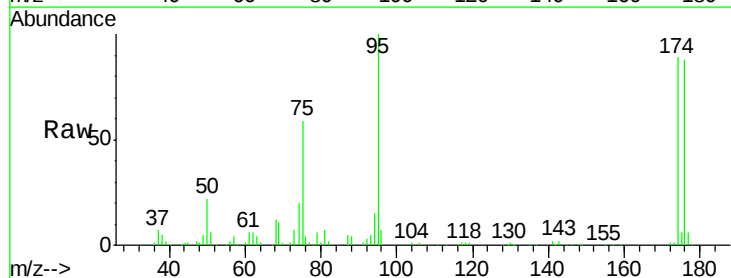
Instrument :
MSVOA_X
ClientSampled :
EFF-180306-02

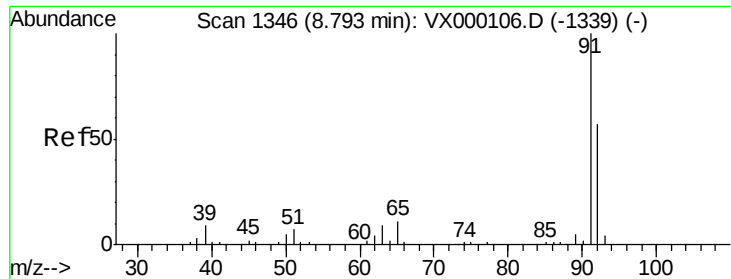
Tot Ion:117 Resp: 111406
Ion Ratio Lower Upper
117 100
82 54.8 43.0 64.4
119 30.9 25.8 38.8



#60
4-Bromofluorobenzene
Concen: 28.159 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VX000218.D
Acq: 08 Mar 2018 12:31

Tgt Ion: 95 Resp: 51322
Ion Ratio Lower Upper
95 100
174 87.1 71.1 106.7
176 84.9 69.3 103.9





#62

Toluene

Concen: 0.493 ug/l

RT: 8.79 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VX000218.D

Acq: 08 Mar 2018 12:31

Instrument :

MSVOA_X

ClientSampleId :

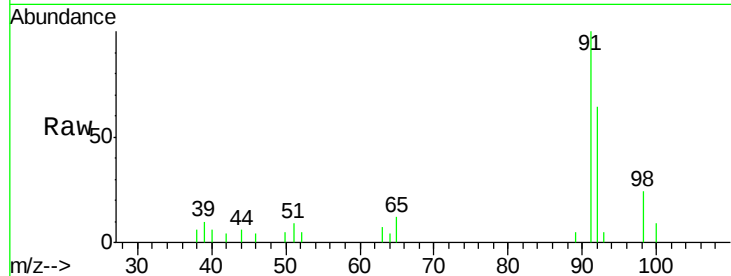
EFF-180306-02

Tot Ion: 91 Resp: 2859

Ion Ratio Lower Upper

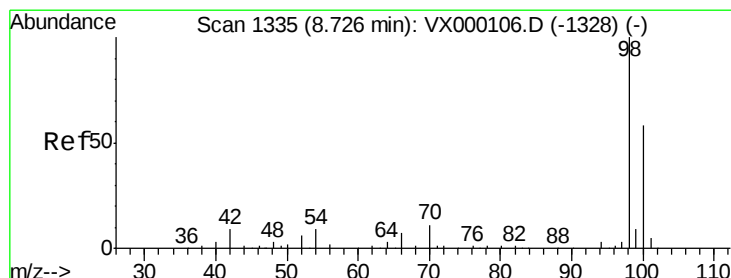
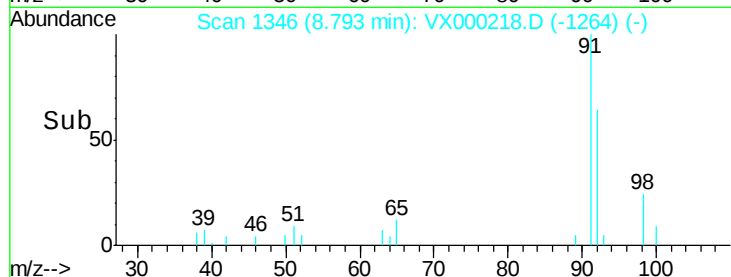
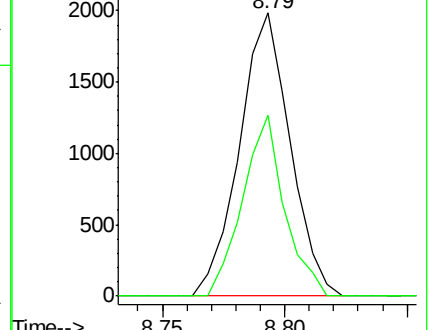
91 100

92 52.6 45.4 68.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0



#63

Toluene-d8

Concen: 30.342 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.01 min

Lab File: VX000218.D

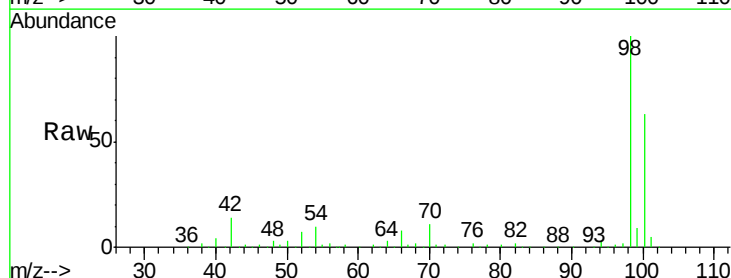
Acq: 08 Mar 2018 12:31

Tgt Ion: 98 Resp: 144790

Ion Ratio Lower Upper

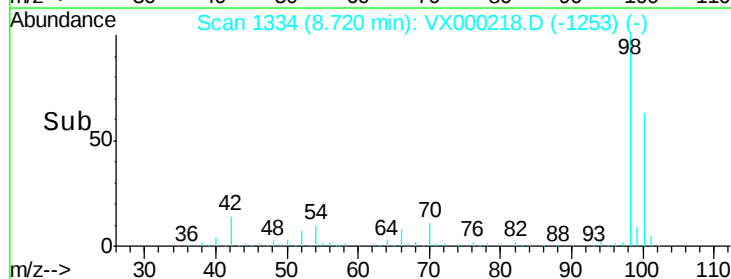
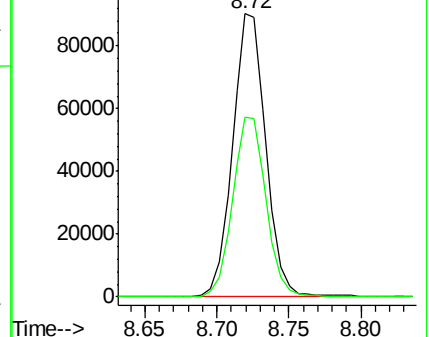
98 100

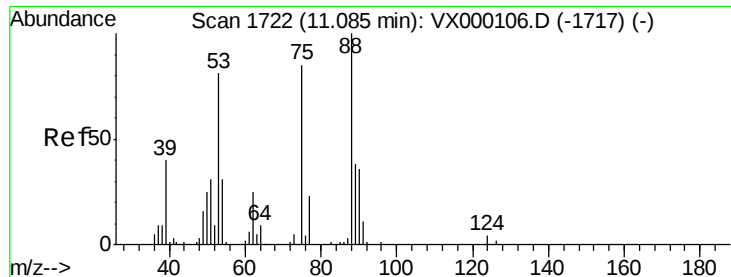
100 63.9 50.0 75.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

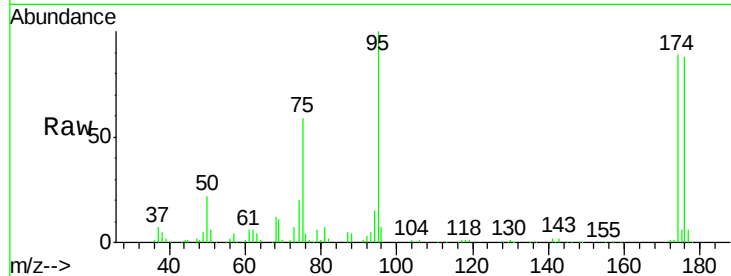




#77
t-1,4-Dichloro-2-butene
Concen: 39.882 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.06 min
Lab File: VX000218.D
Acq: 08 Mar 2018 12:31

Instrument :
MSVOA_X
ClientSampleId :
EFF-180306-02

Tot Ion: 75 Resp: 29644
Ion Ratio Lower Upper
75 100
53 0.0 47.8 143.3#
89 0.0 22.3 66.8#



Abundance Ion 75.00 (74.70 to 75.70): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 89.00 (88.70 to 89.70): VX0

