

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082318\
 Data File : VX004230.D
 Acq On : 23 Aug 2018 16:46
 Operator : JC/MD
 Sample : J4618-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FM1026

Quant Time: Aug 24 09:41:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	341698	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	532447	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	477594	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	285175	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	223496	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
35) Dibromofluoromethane	5.50	113	195001	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
50) Toluene-d8	8.71	98	739126	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
62) 4-Bromofluorobenzene	11.14	95	269992	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	

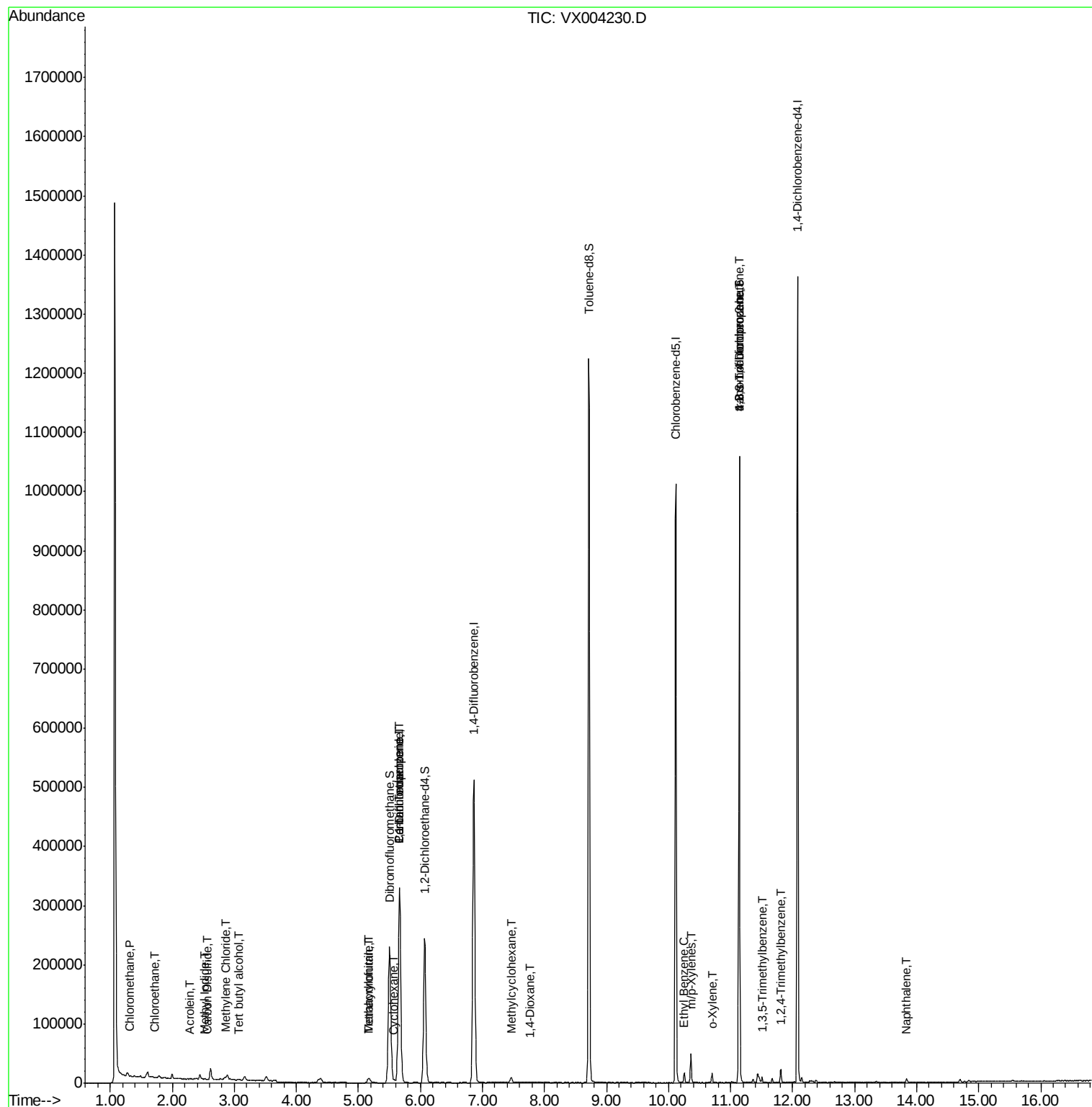
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1331	0.59	ug/l	93
5) Bromomethane	1.64	94	1239	Below Cal		83
6) Chloroethane	1.71	64	1208	1.30	ug/l #	44
10) Methyl Iodide	2.53	142	651	4.40	ug/l #	92
11) Tert butyl alcohol	3.07	59	2546	2.68	ug/l #	94
13) Acrolein	2.29	56	169	0.74	ug/l #	16
16) Acetone	2.45	43	7945	Below Cal		98
17) Carbon Disulfide	2.57	76	753	0.87	ug/l #	76
20) Methylene Chloride	2.86	84	1281	0.30	ug/l	97
25) 2-Butanone	4.71	43	960	Below Cal	#	87
29) Tetrahydrofuran	5.17	42	7163	3.74	ug/l	99
31) Cyclohexane	5.57	56	2614	0.42	ug/l #	95
36) 1,1-Dichloropropene	5.66	75	21685	3.62	ug/l #	50
38) Carbon Tetrachloride	5.66	117	29599	5.26	ug/l #	15
39) Methylcyclohexane	7.47	83	3728	0.55	ug/l #	84
41) Methacrylonitrile	5.17	41	4465	1.31	ug/l #	48
49) 1,4-Dioxane	7.77	88	51	0.46	ug/l #	35
67) Ethyl Benzene	10.25	91	9870	0.51	ug/l	98
68) m/p-Xylenes	10.36	106	11647	1.53	ug/l	99
69) o-Xylene	10.70	106	3477	0.48	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	128061	22.08	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	3633	0.23	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.14	75	128061	71.64	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	10048	0.63	ug/l	98
94) Hexachlorobutadiene	13.79	225	134	Below Cal	#	59
95) Naphthalene	13.83	128	4602	0.25	ug/l	99

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

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

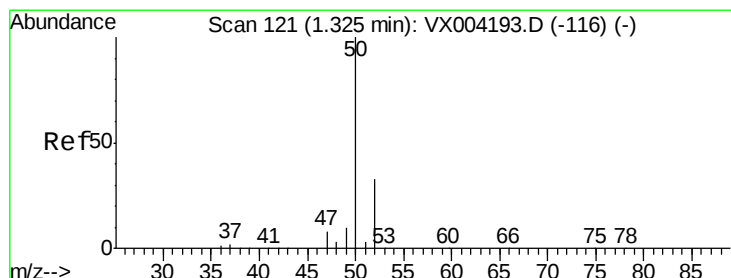
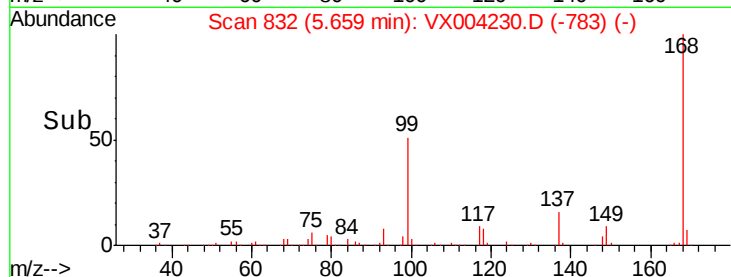
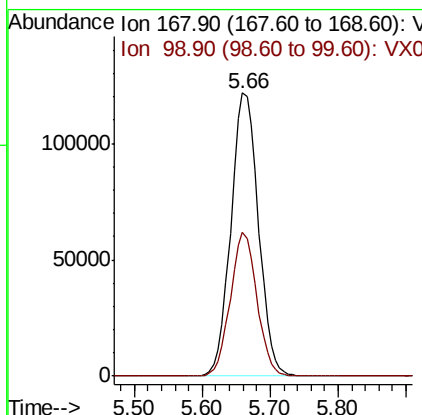
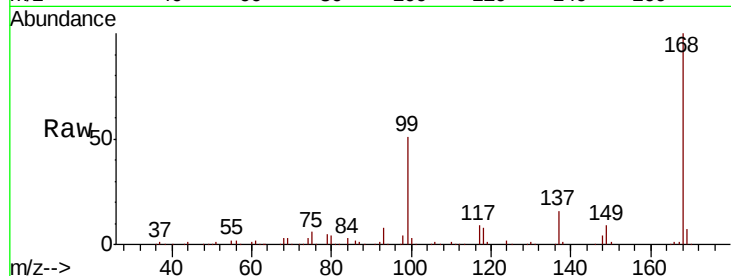




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.66 min Scan# 832
Delta R.T. -0.00 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

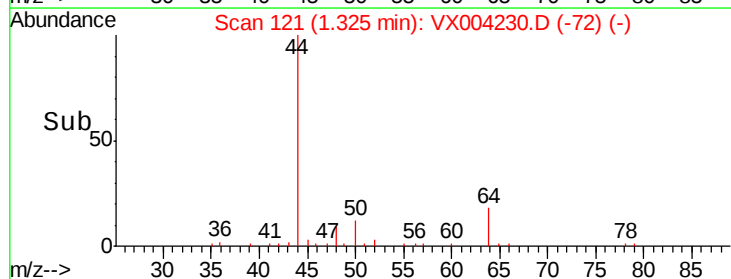
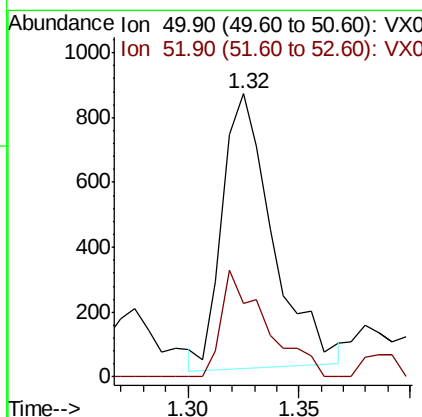
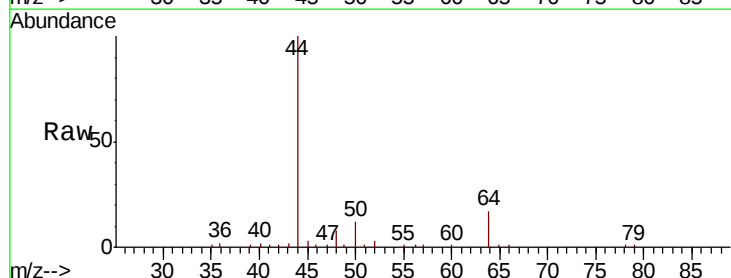
Instrument :
MSVOA_X
ClientSampled :
FM1026

Tot Ion:168 Resp: 341698
Ion Ratio Lower Upper
168 100
99 50.7 39.9 59.9



#3
Chloromethane
Concen: 0.59 ug/l
RT: 1.32 min Scan# 121
Delta R.T. 0.00 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

Tgt Ion: 50 Resp: 1331
Ion Ratio Lower Upper
50 100
52 28.7 26.2 39.2





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

Instrument :

MSVOA_X

ClientSampleId :

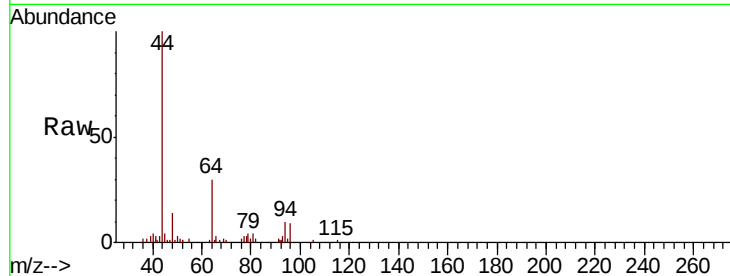
FM1026

Tot Ion: 94 Resp: 1239

Ion Ratio Lower Upper

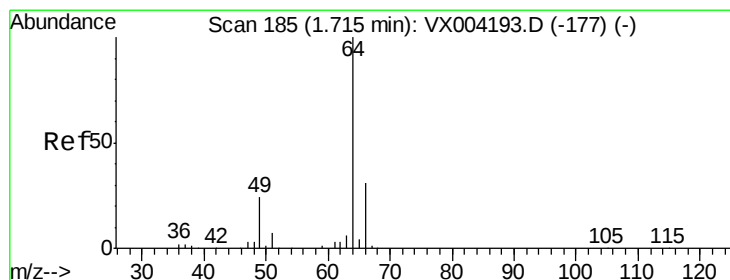
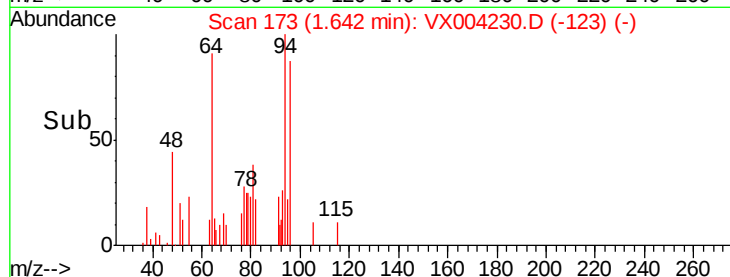
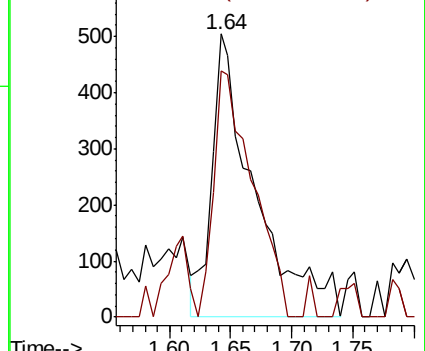
94 100

96 77.0 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.30 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX004230.D

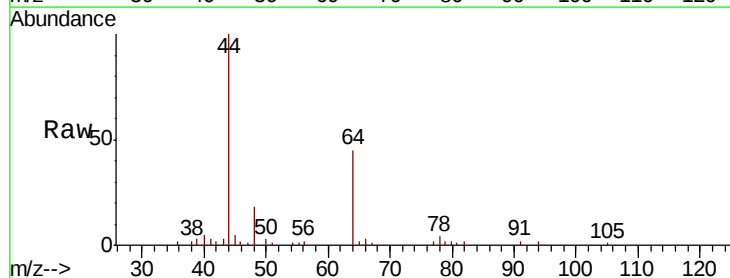
Acq: 23 Aug 2018 16:46

Tgt Ion: 64 Resp: 1208

Ion Ratio Lower Upper

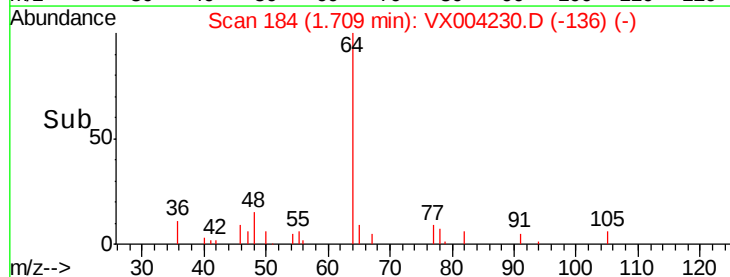
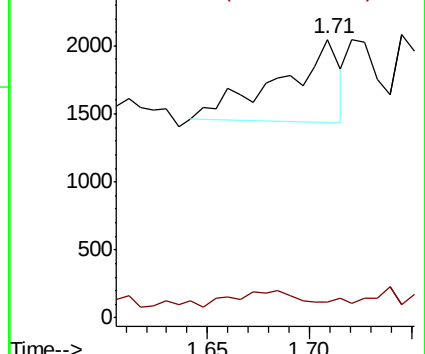
64 100

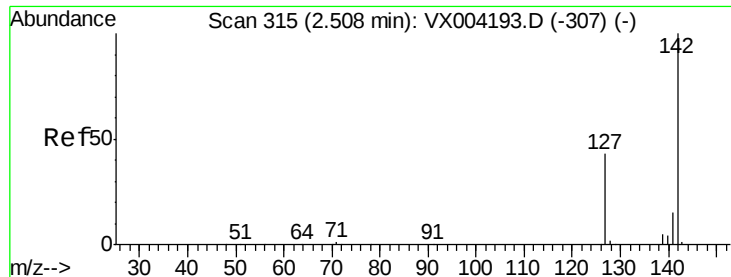
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

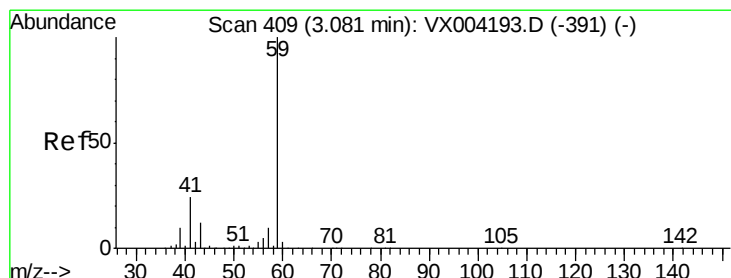
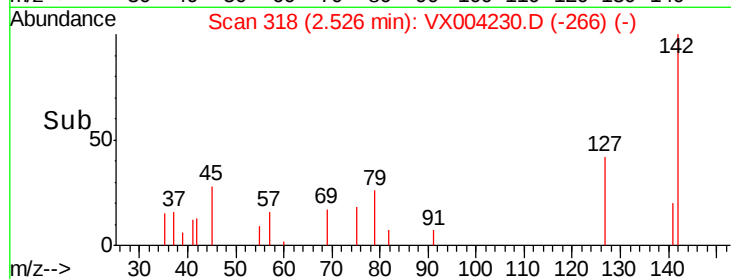
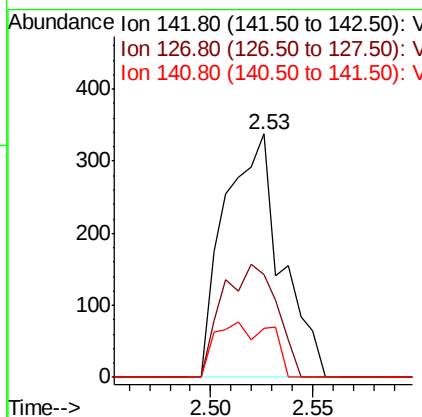
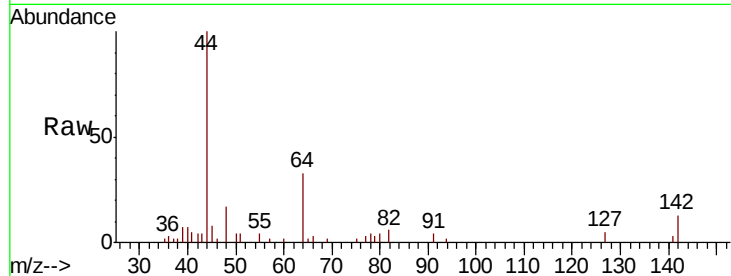




#10
Methyl Iodide
Concen: 4.40 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.02 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

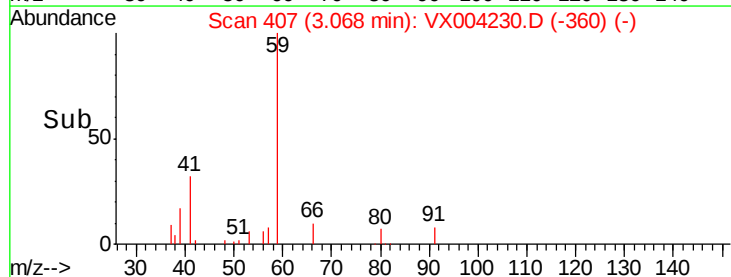
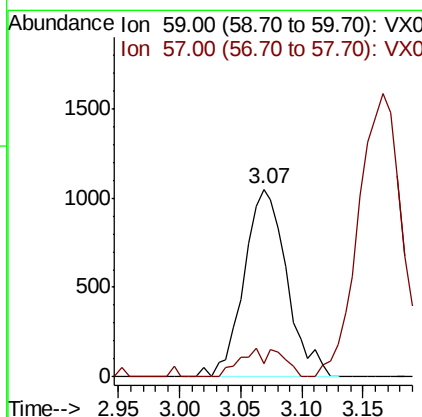
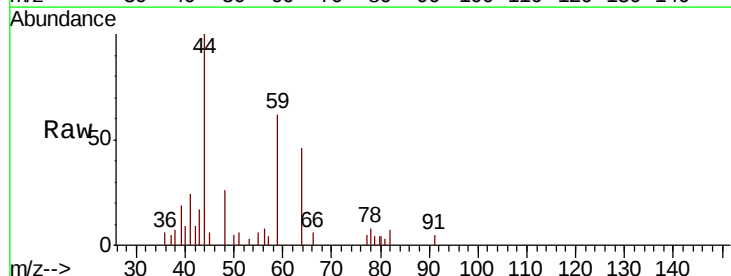
Instrument :
MSVOA_X
ClientSampled :
FM1026

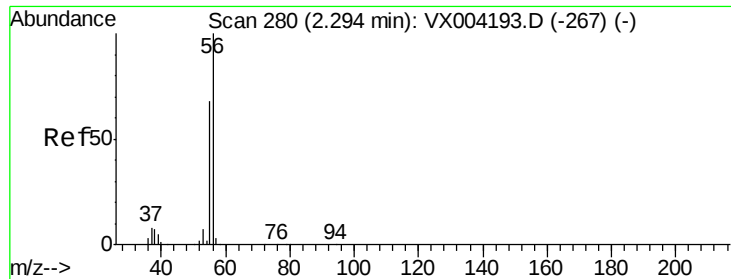
Tot Ion:142 Resp: 651
Ion Ratio Lower Upper
142 100
127 44.5 33.8 50.6
141 22.4 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.68 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

Tgt Ion: 59 Resp: 2546
Ion Ratio Lower Upper
59 100
57 8.2 8.2 12.4#





#13

Acrolein

Concen: 0.74 ua/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

Instrument :

MSVOA_X

ClientSampleId :

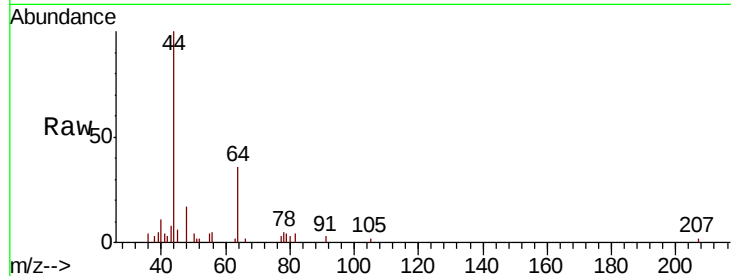
FM1026

Tot Ion: 56 Resp: 169

Ion Ratio Lower Upper

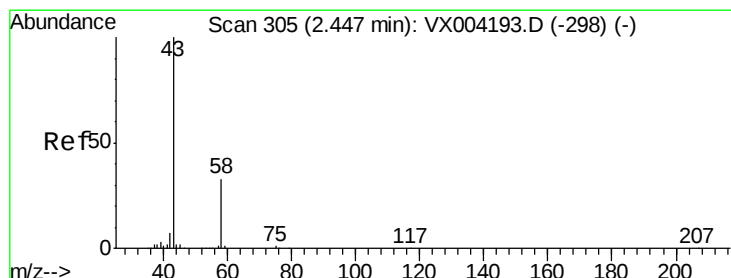
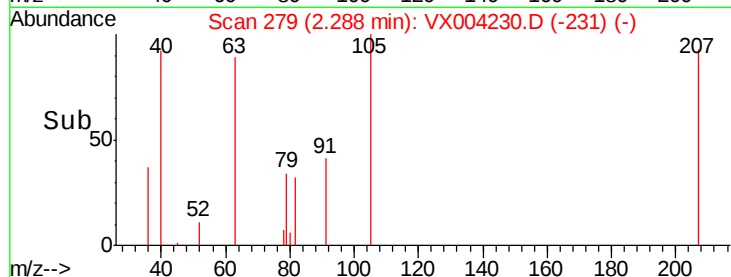
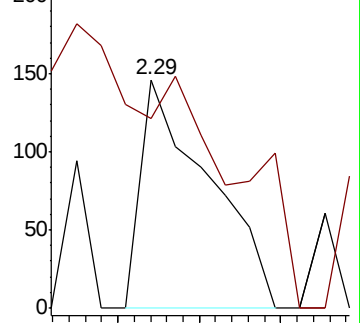
56 100

55 0.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004230.D

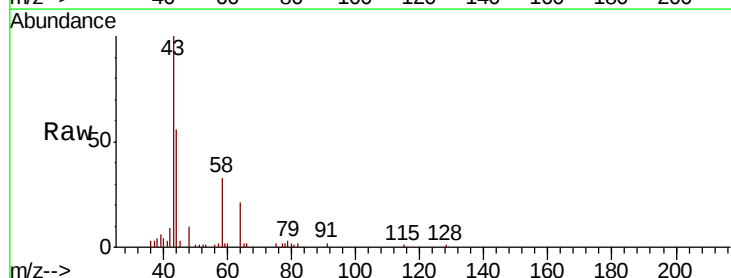
Acq: 23 Aug 2018 16:46

Tgt Ion: 43 Resp: 7945

Ion Ratio Lower Upper

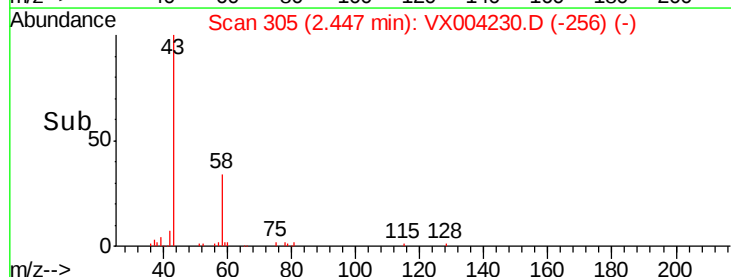
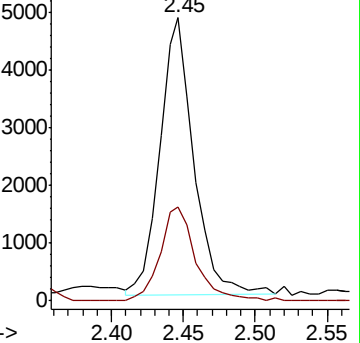
43 100

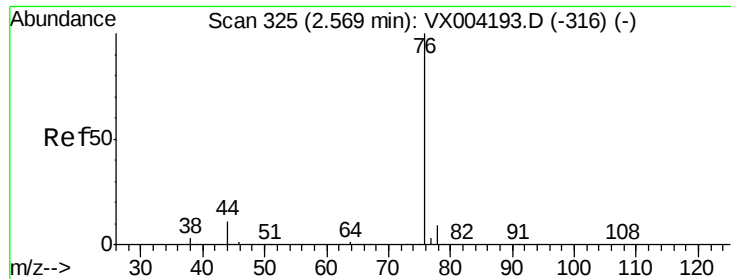
58 34.2 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

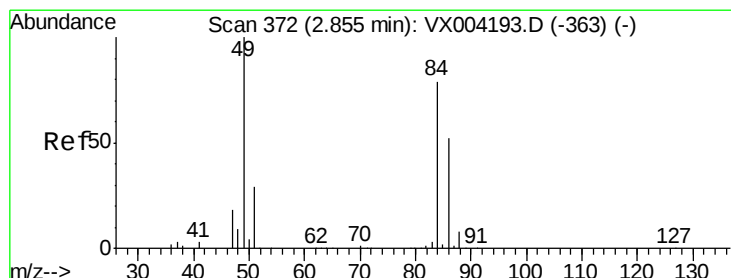
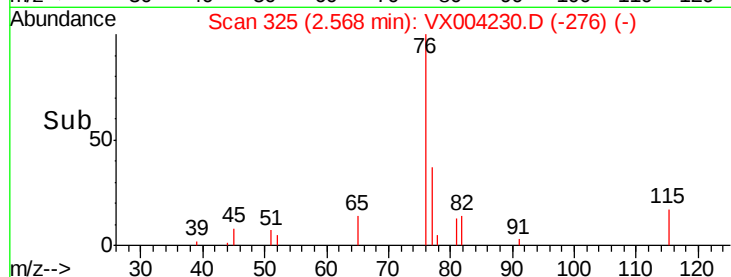
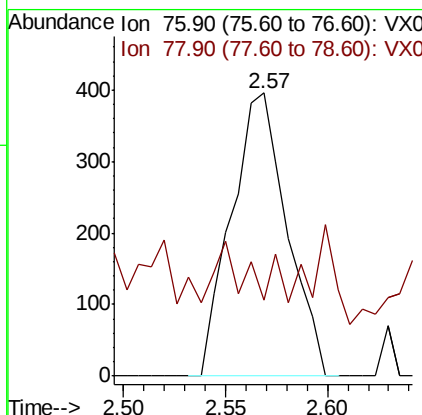
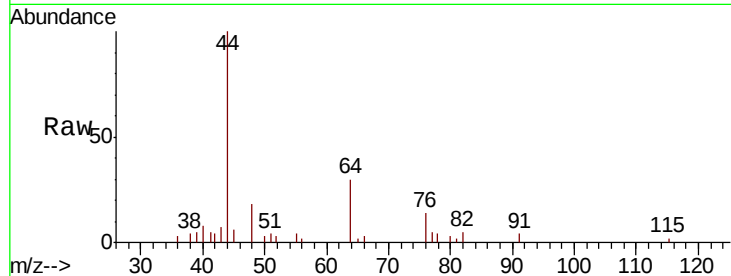




#17
Carbon Disulfide
Concen: 0.87 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.00 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

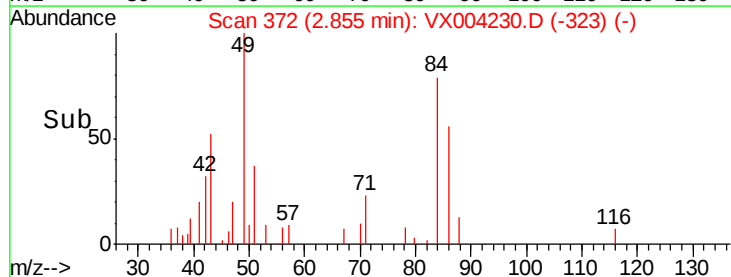
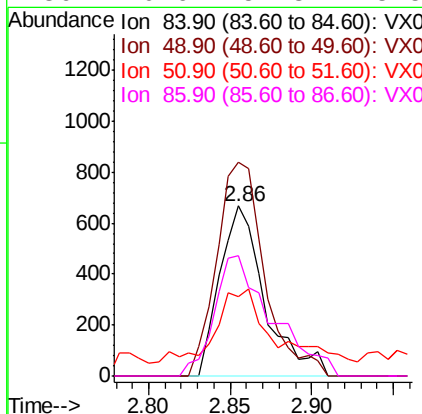
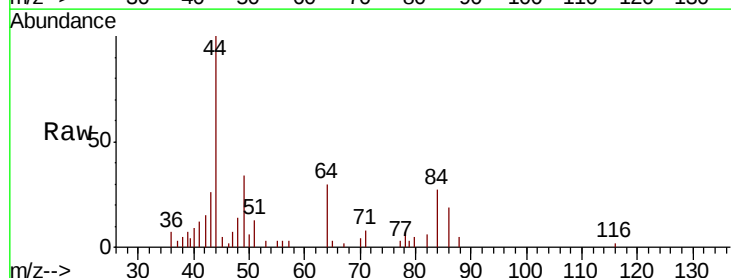
Instrument :
MSVOA_X
ClientSampleId :
FM1026

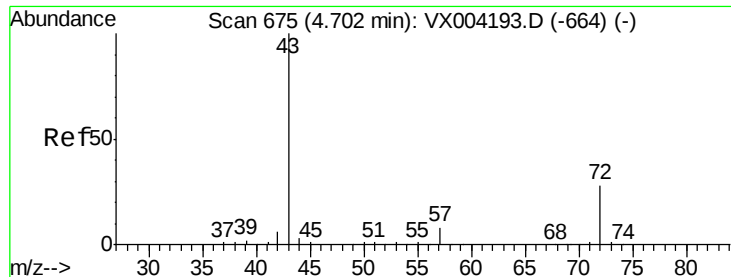
Tot Ion: 76 Resp: 753
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#20
Methylene Chloride
Concen: 0.30 ug/l
RT: 2.86 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

Tgt Ion: 84 Resp: 1281
Ion Ratio Lower Upper
84 100
49 125.8 101.2 151.8
51 33.6 29.5 44.3
86 70.6 52.3 78.5





#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

Instrument :

MSVOA_X

ClientSampled :

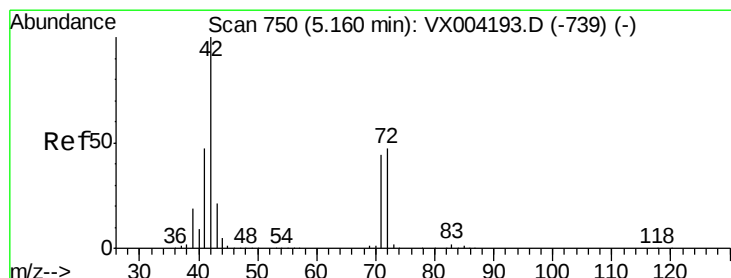
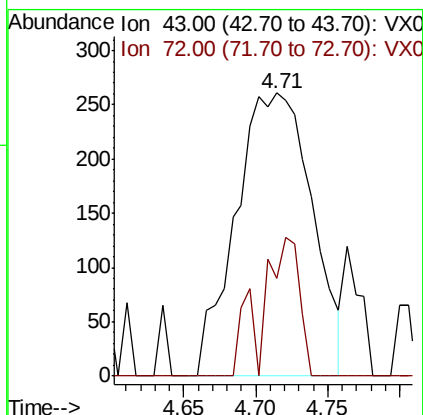
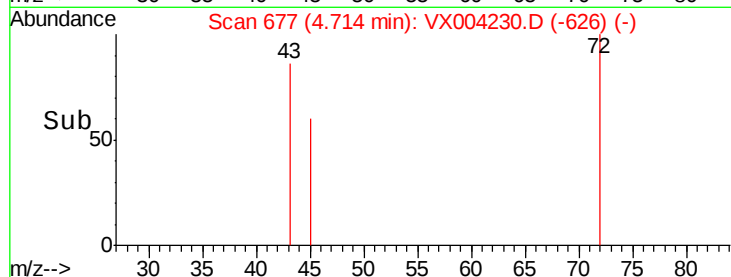
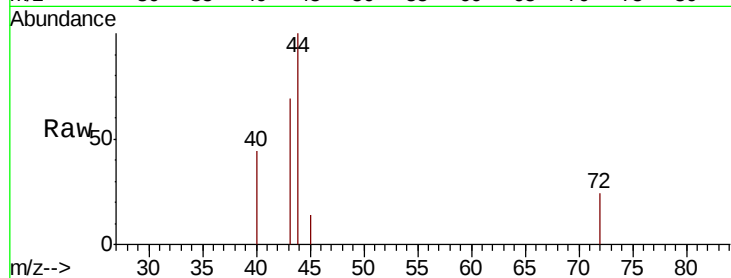
FM1026

Tot Ion: 43 Resp: 960

Ion Ratio Lower Upper

43 100

72 34.5 22.0 33.0#



#29

Tetrahydrofuran

Concen: 3.74 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.01 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

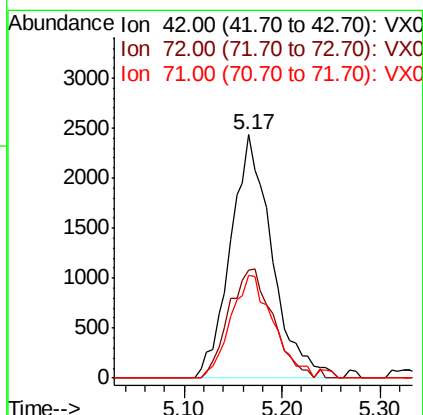
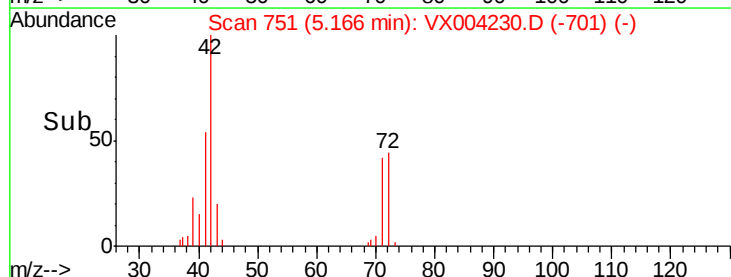
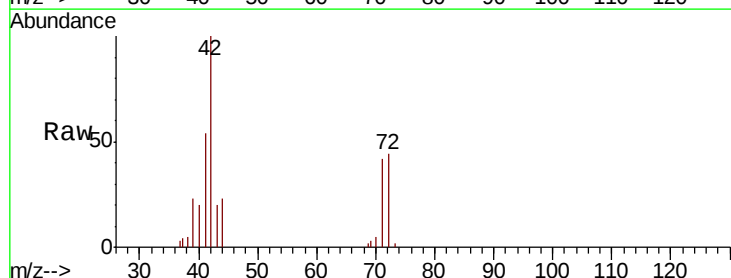
Tgt Ion: 42 Resp: 7163

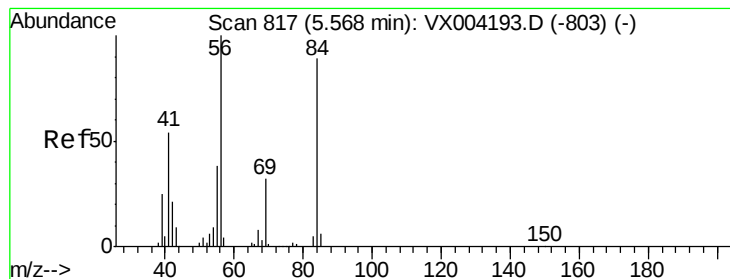
Ion Ratio Lower Upper

42 100

72 47.5 37.4 56.0

71 43.2 34.5 51.7





#31

Cyclohexane

Concen: 0.42 ug/l

RT: 5.57 min Scan# 818

Delta R.T. 0.01 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

Instrument :

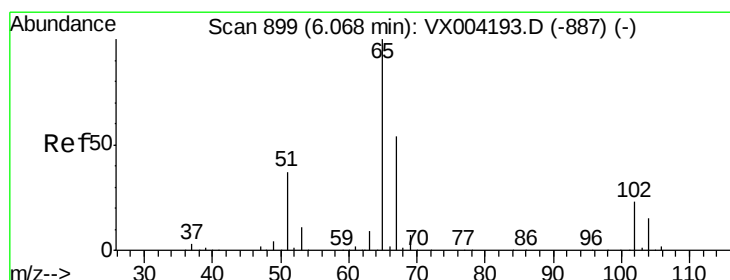
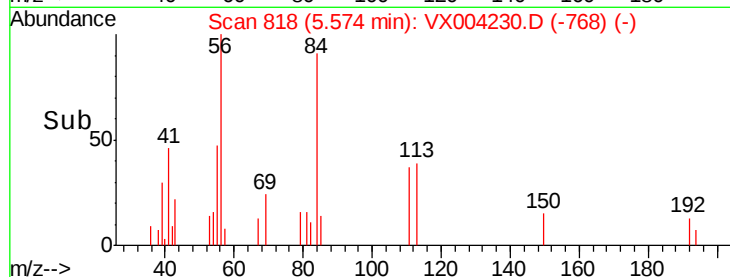
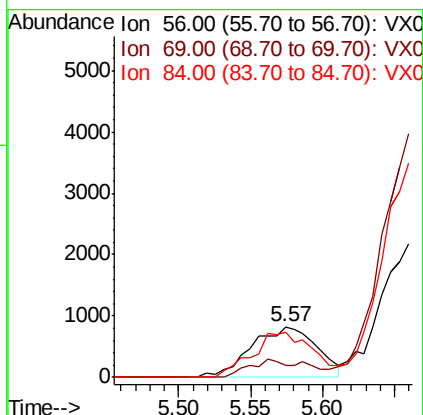
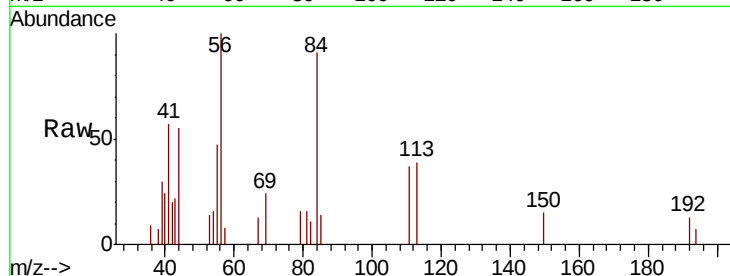
MSVOA_X

ClientSampled :

FM1026

Tot Ion: 56 Resp: 2614

Ion	Ratio	Lower	Upper
56	100		
69	23.6	25.4	38.2#
84	90.5	71.4	107.2



#33

1,2-Dichloroethane-d4

Concen: 50.18 ug/l

RT: 6.07 min Scan# 899

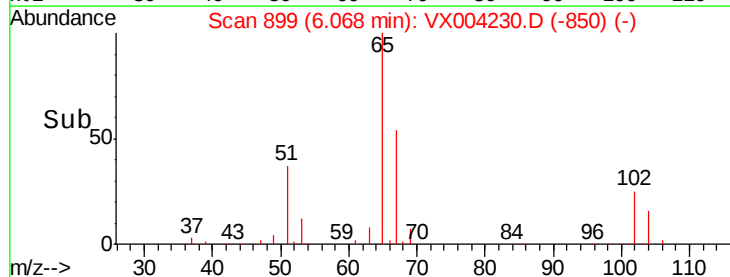
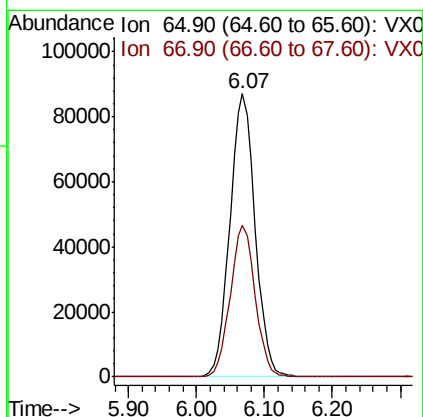
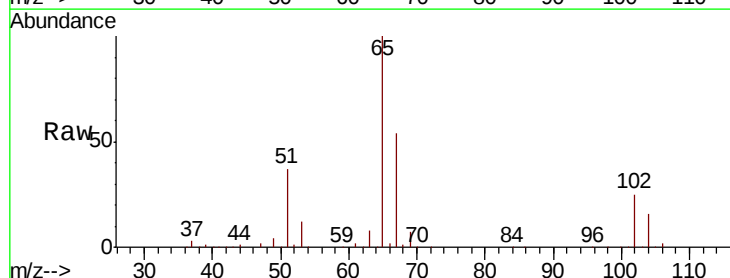
Delta R.T. -0.00 min

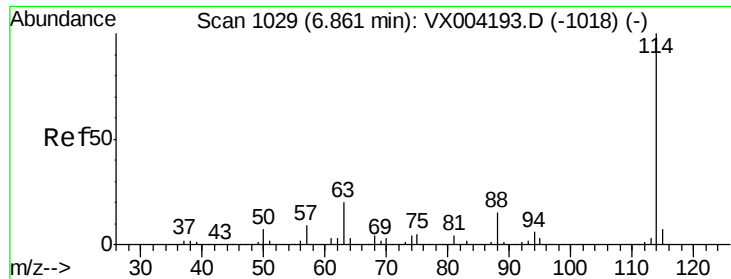
Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

Tgt Ion: 65 Resp: 223496

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.8

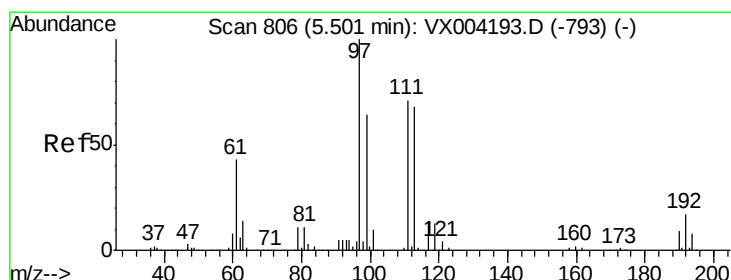
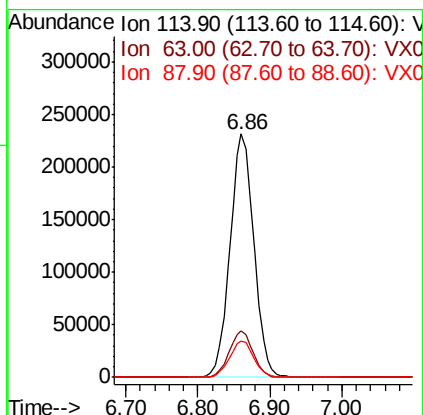
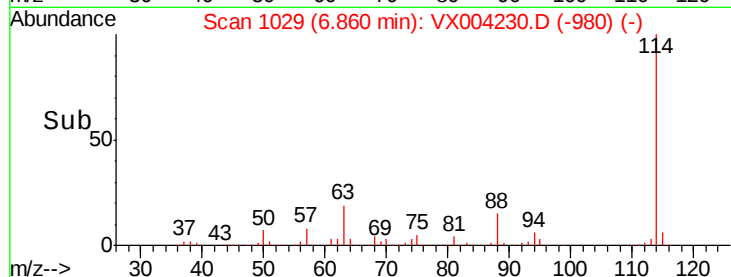
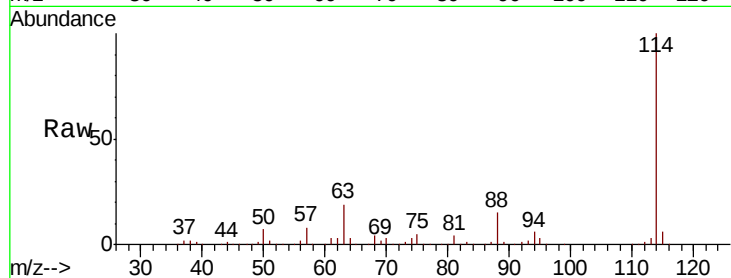




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004230.D
 Acq: 23 Aug 2018 16:46

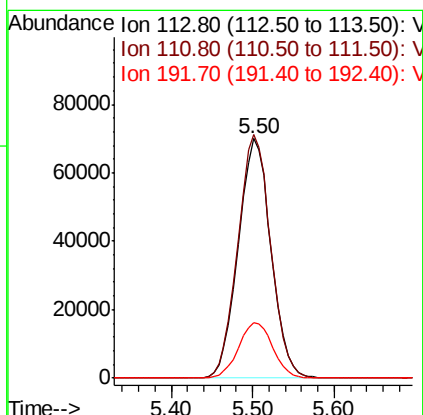
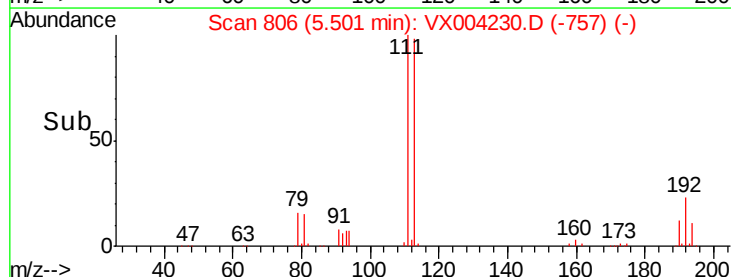
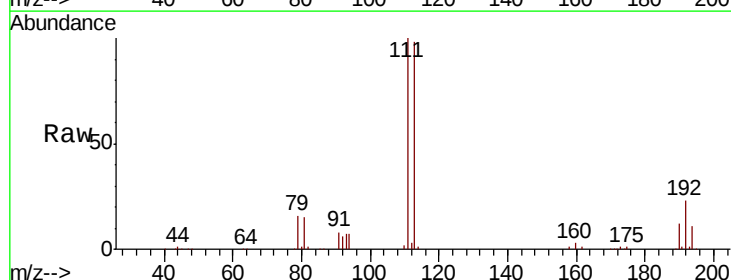
Instrument :
 MSVOA_X
 ClientSampleId :
 FM1026

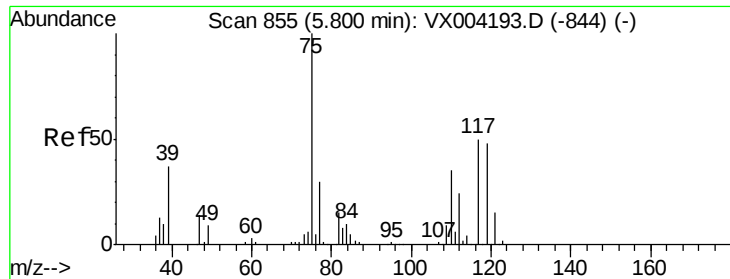
Tot Ion:114 Resp: 532447
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.0
 88 15.0 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 49.23 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004230.D
 Acq: 23 Aug 2018 16:46

Tgt Ion:113 Resp: 195001
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.4 123.6
 192 24.2 19.4 29.2





#36

1,1-Dichloropropene

Concen: 3.62 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

Instrument :

MSVOA_X

ClientSampleId :

FM1026

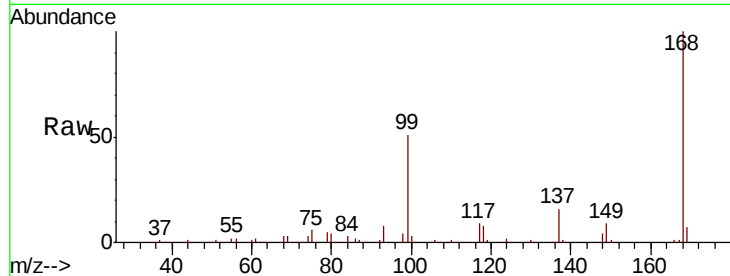
Tot Ion: 75 Resp: 21685

Ion Ratio Lower Upper

75 100

110 9.2 18.0 54.0#

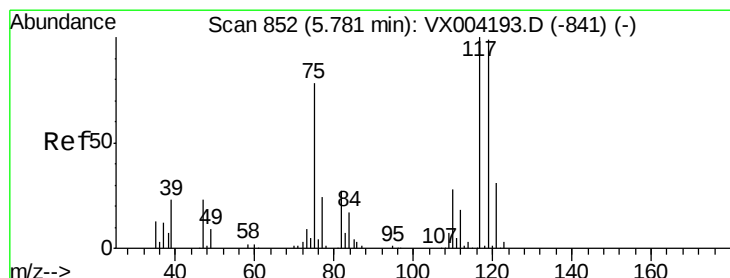
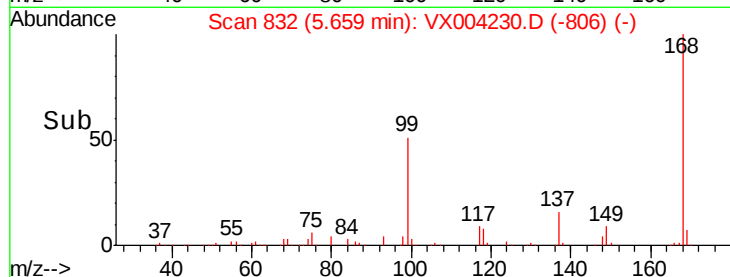
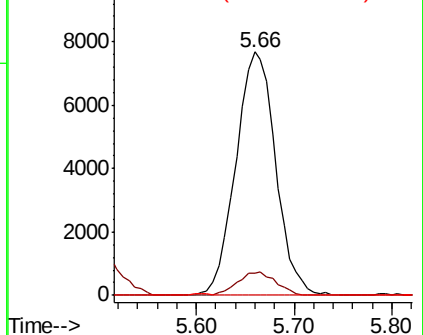
77 0.0 24.6 36.8#



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: 5.26 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

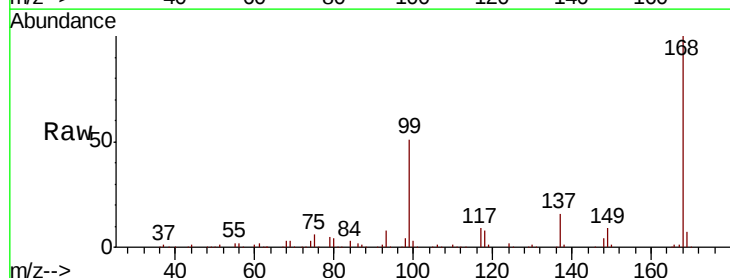
Tgt Ion: 117 Resp: 29599

Ion Ratio Lower Upper

117 100

119 5.8 78.8 118.2#

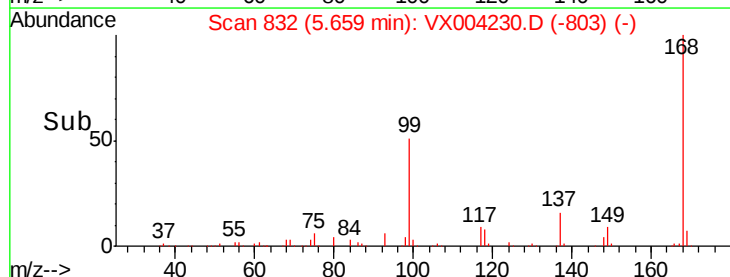
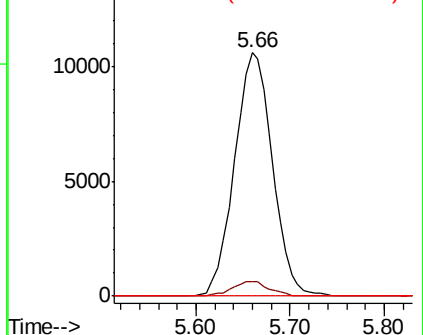
121 0.0 24.9 37.3#

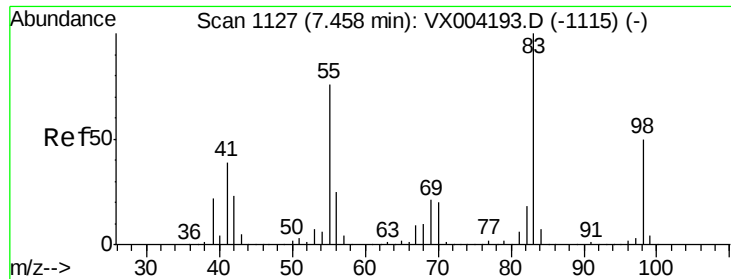


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

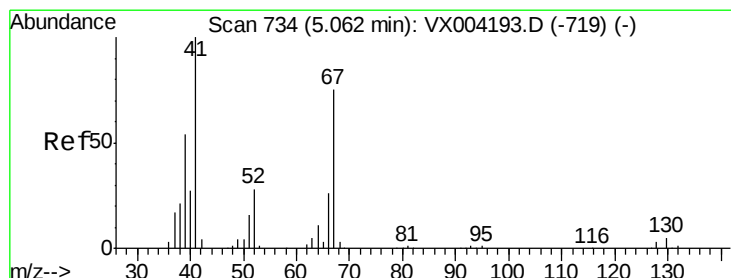
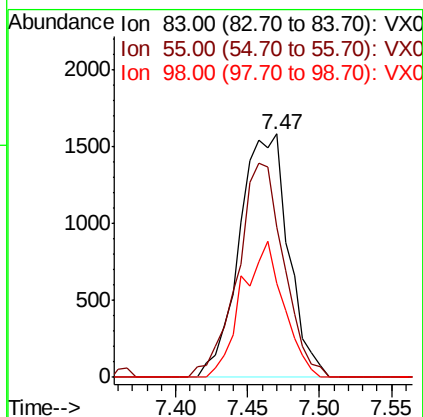
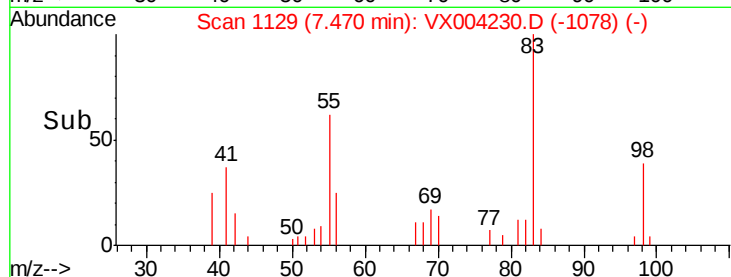
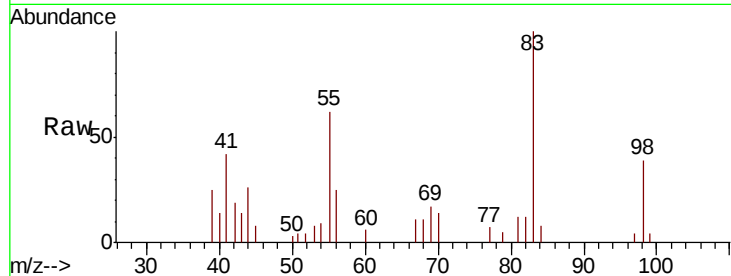




#39
Methylcyclohexane
Concen: 0.55 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

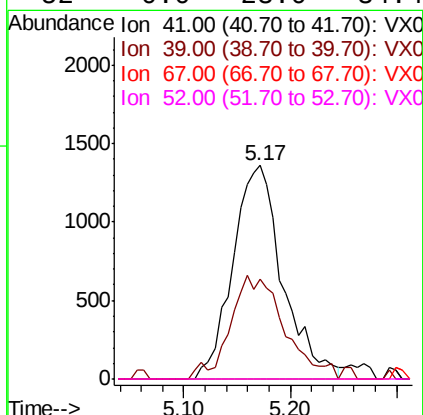
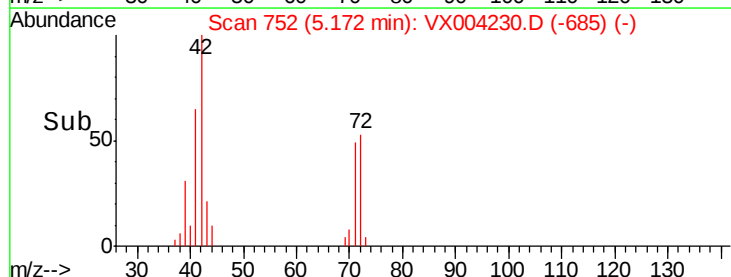
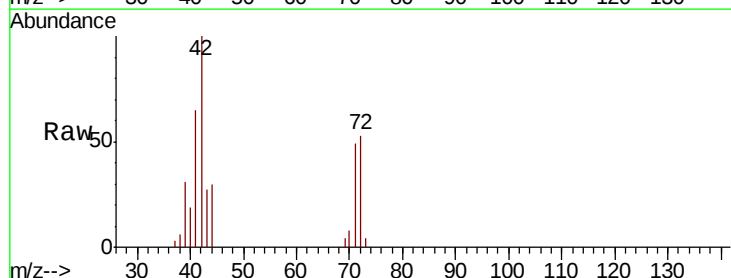
Instrument :
MSVOA_X
ClientSampleId :
FM1026

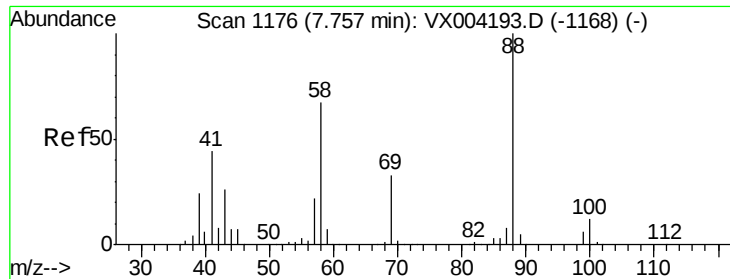
Tot Ion: 83 Resp: 3728
Ion Ratio Lower Upper
83 100
55 61.6 61.0 91.4
98 38.7 39.6 59.4#



#41
Methacrylonitrile
Concen: 1.31 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.11 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

Tgt Ion: 41 Resp: 4465
Ion Ratio Lower Upper
41 100
39 52.3 42.4 63.6
67 0.0 59.2 88.8#
52 0.0 23.0 34.4#

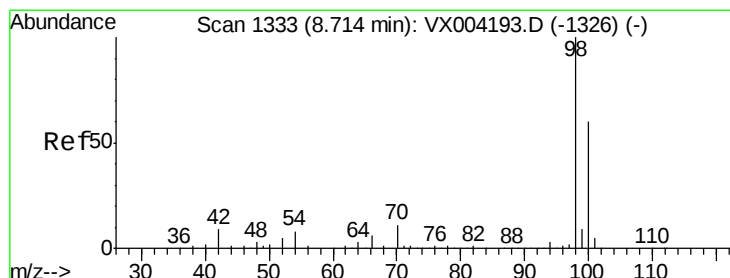
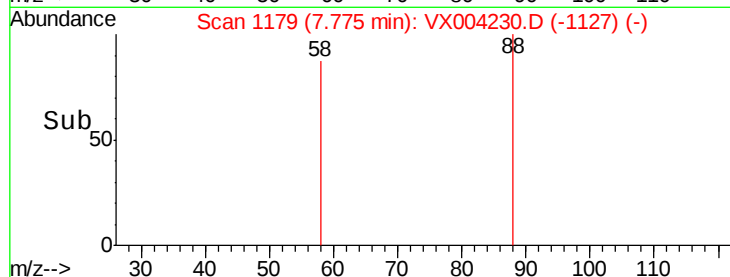
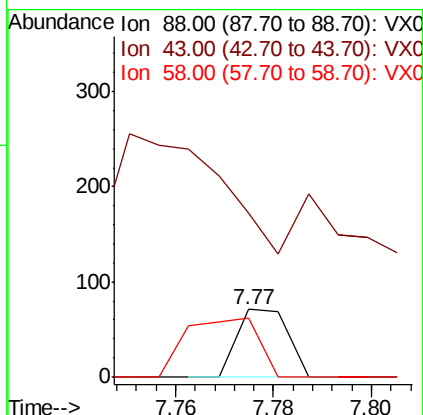
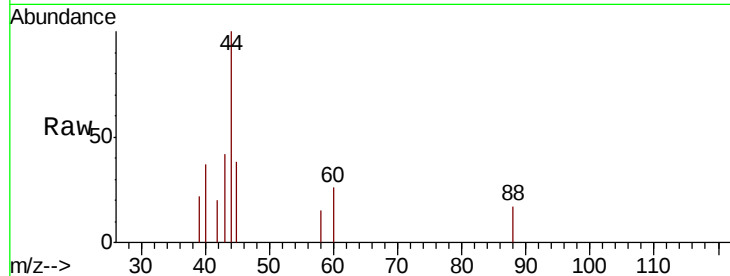




#49
1,4-Dioxane
Concen: 0.46 ug/l
RT: 7.77 min Scan# 1179
Delta R.T. 0.02 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

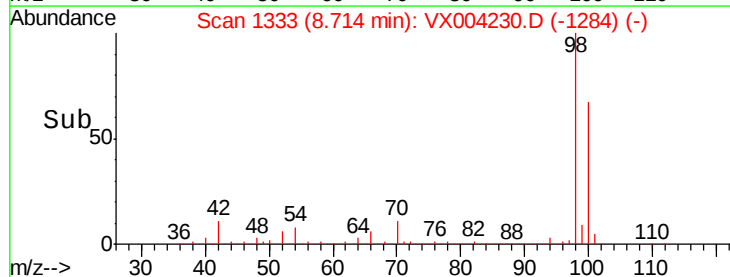
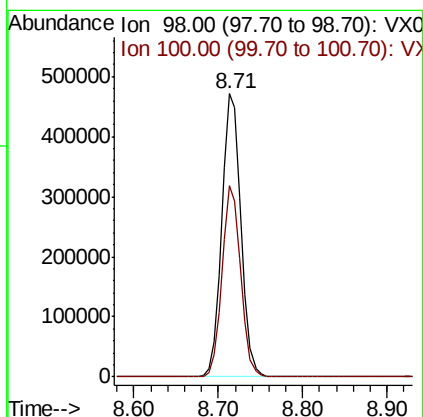
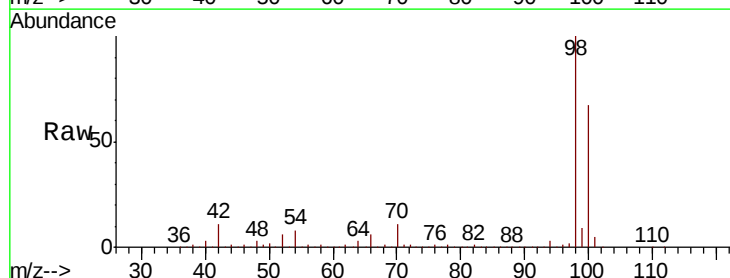
Instrument :
MSVOA_X
ClientSampleId :
FM1026

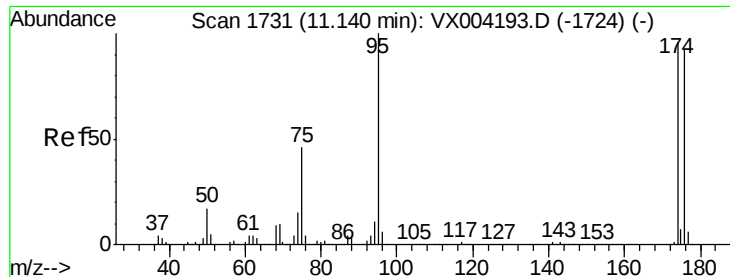
Tot Ion: 88 Resp: 51
Ion Ratio Lower Upper
88 100
43 0.0 24.7 37.1#
58 125.5 55.3 82.9#



#50
Toluene-d8
Concen: 49.43 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.00 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

Tgt Ion: 98 Resp: 739126
Ion Ratio Lower Upper
98 100
100 65.8 52.9 79.3





#62

4-Bromofluorobenzene

Concen: 48.40 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

Instrument :

MSVOA_X

ClientSampled :

FM1026

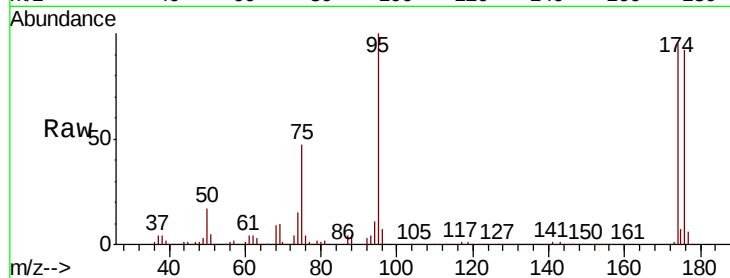
Tot Ion: 95 Resp: 269992

Ion Ratio Lower Upper

95 100

174 92.6 0.0 185.2

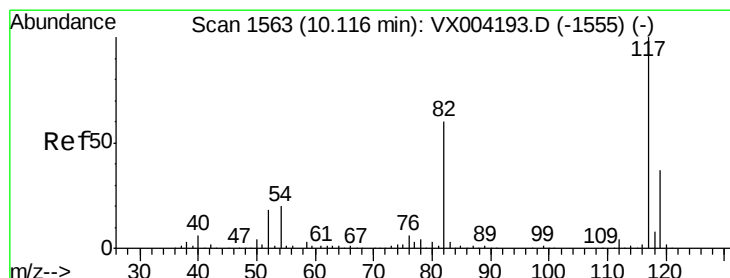
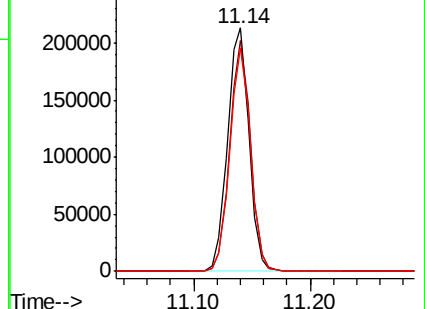
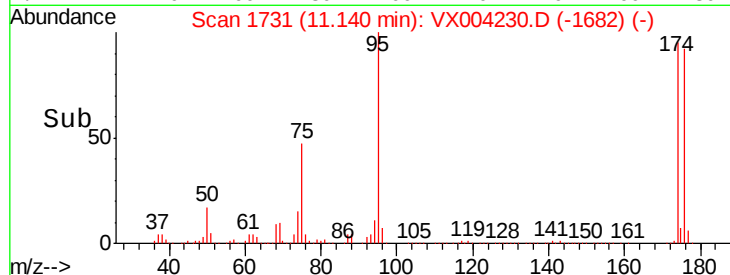
176 89.2 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX004230.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX004230.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX004230.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

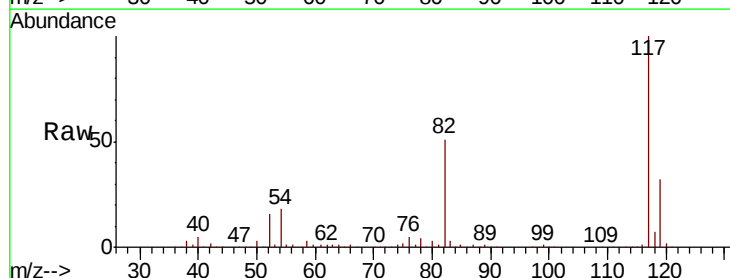
Tgt Ion: 117 Resp: 477594

Ion Ratio Lower Upper

117 100

82 51.5 47.8 71.6

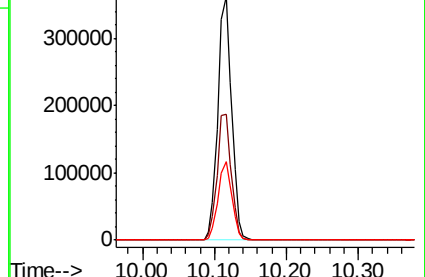
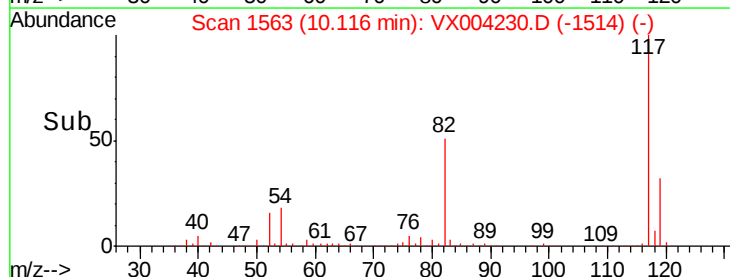
119 32.4 29.3 43.9

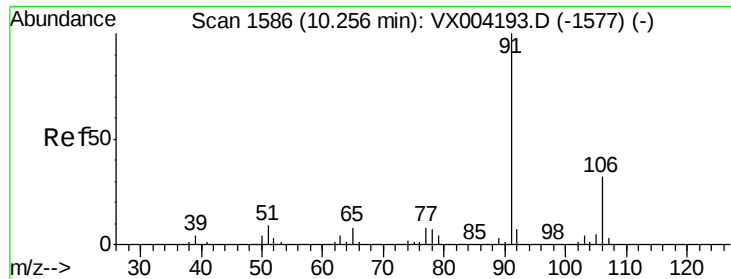


Abundance Ion 116.90 (116.60 to 117.60): VX004230.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX004230.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX004230.D (-1514) (-)





#67

Ethyl Benzene

Concen: 0.51 ug/l

RT: 10.25 min Scan# 1585

Delta R.T. -0.01 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

Instrument :

MSVOA_X

ClientSampleId :

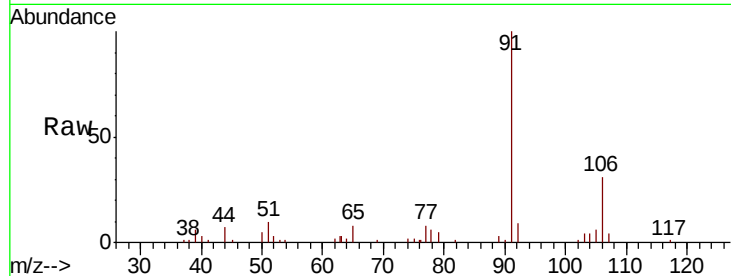
FM1026

Tot Ion: 91 Resp: 9870

Ion Ratio Lower Upper

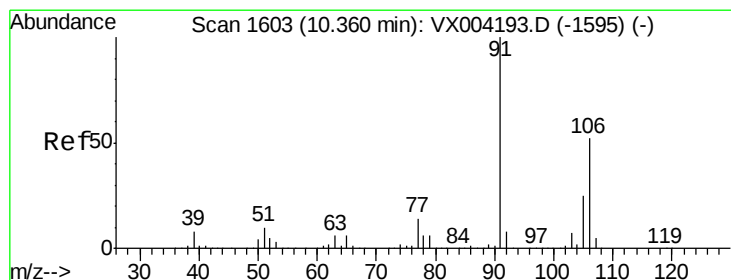
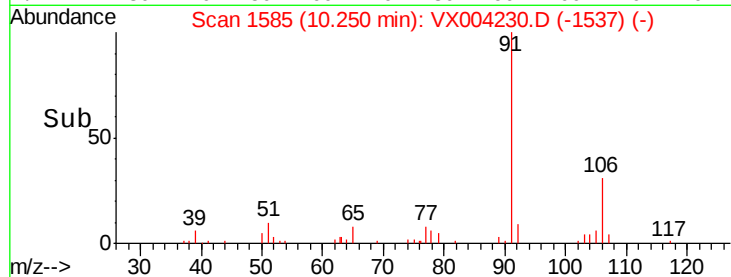
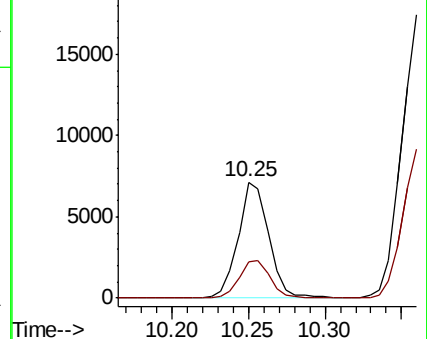
91 100

106 31.2 25.9 38.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 1.53 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. -0.00 min

Lab File: VX004230.D

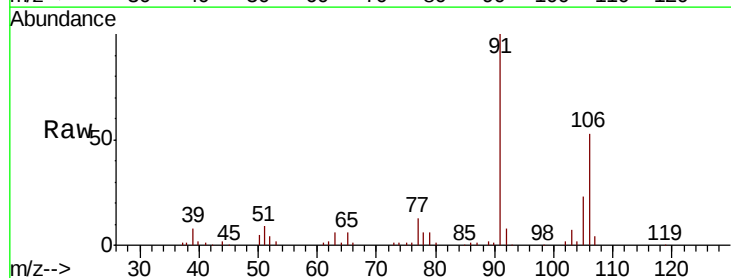
Acq: 23 Aug 2018 16:46

Tgt Ion: 106 Resp: 11647

Ion Ratio Lower Upper

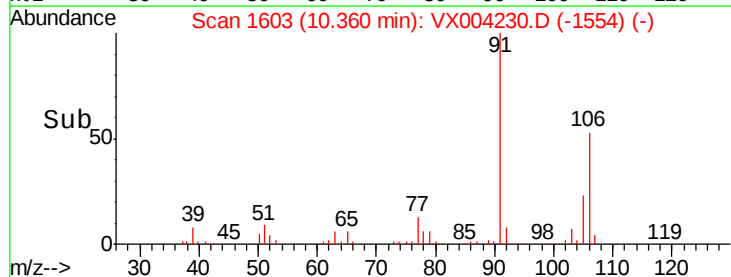
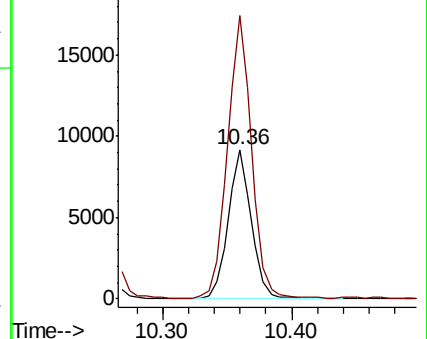
106 100

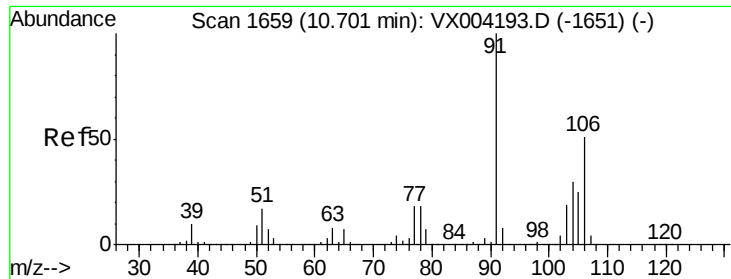
91 197.4 157.1 235.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

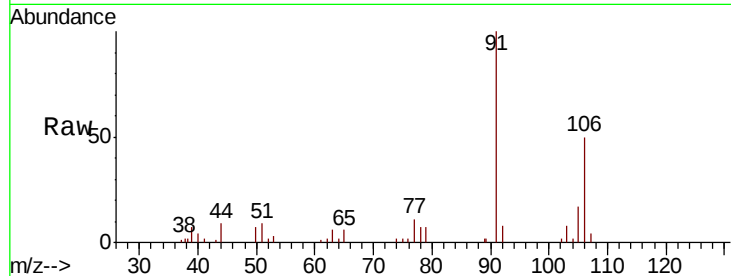




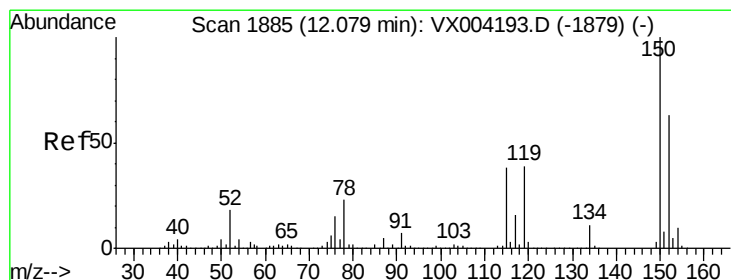
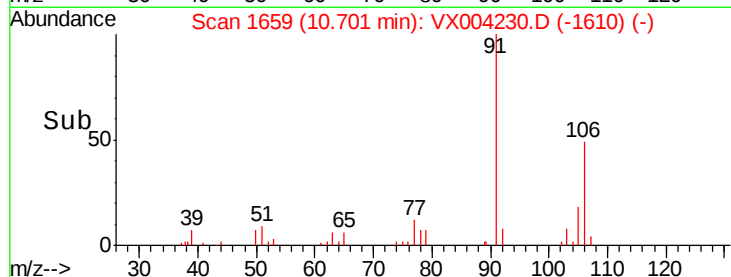
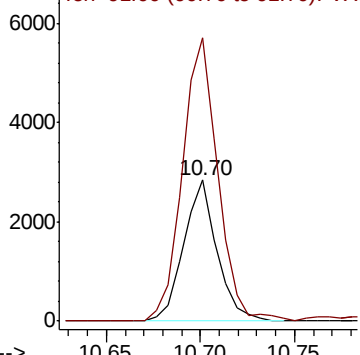
#69
o-Xylene
Concen: 0.48 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

Instrument :
MSVOA_X
ClientSampleId :
FM1026

Tot Ion:106 Resp: 3477
Ion Ratio Lower Upper
106 100
91 212.8 105.1 315.1

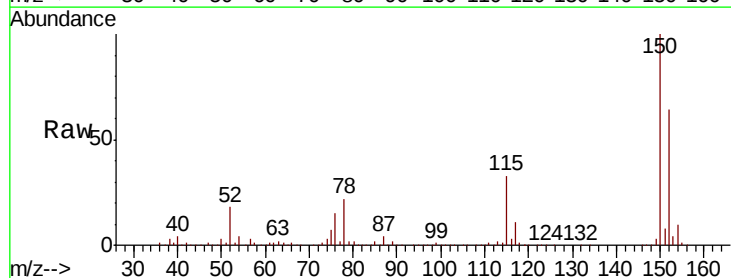


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

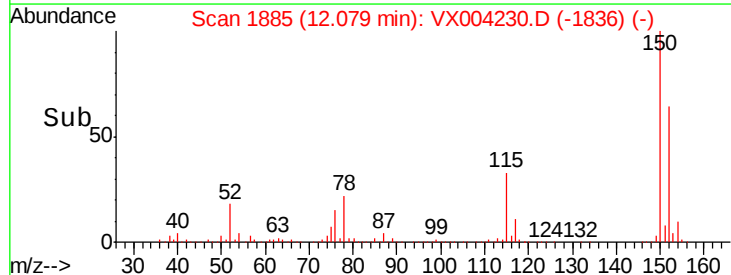
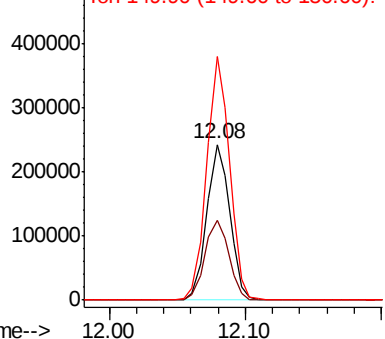


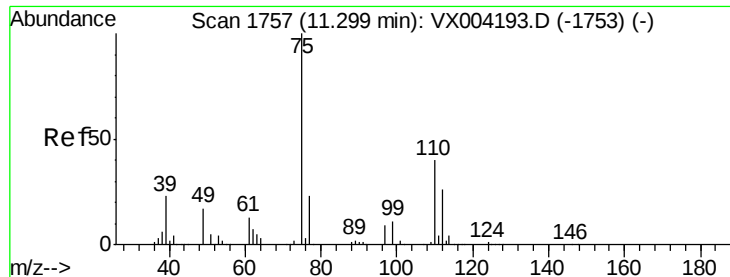
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

Tgt Ion:152 Resp: 285175
Ion Ratio Lower Upper
152 100
115 53.5 39.0 117.0
150 155.7 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

Instrument :

MSVOA_X

ClientSampleId :

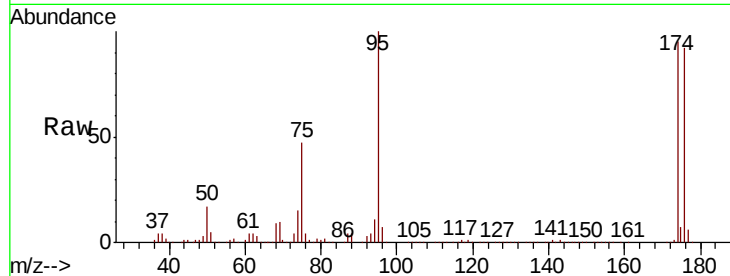
FM1026

Tot Ion: 75 Resp: 128061

Ion Ratio Lower Upper

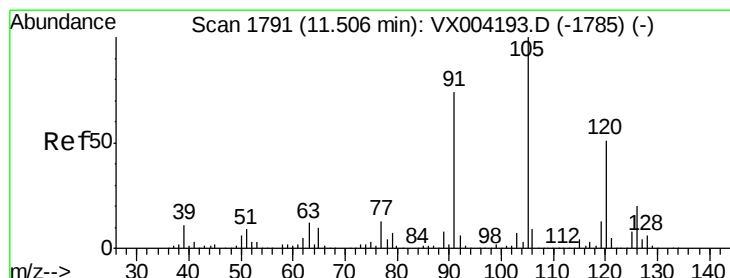
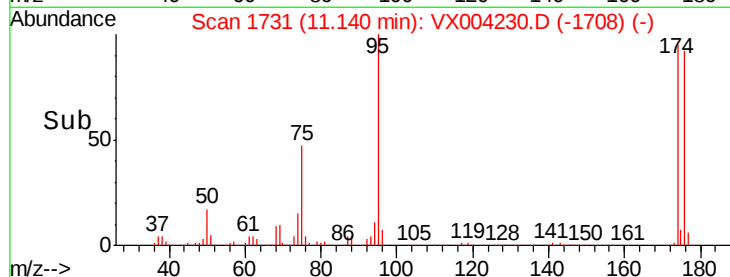
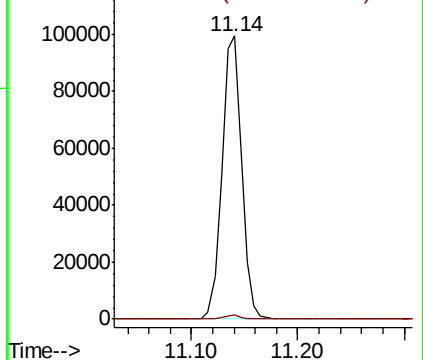
75 100

77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#80

1,3,5-Trimethylbenzene

Concen: 0.23 ug/l

RT: 11.51 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX004230.D

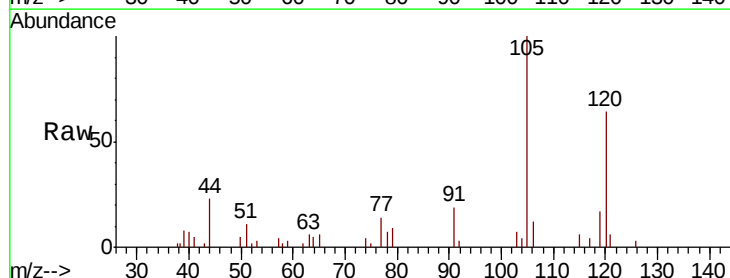
Acq: 23 Aug 2018 16:46

Tgt Ion:105 Resp: 3633

Ion Ratio Lower Upper

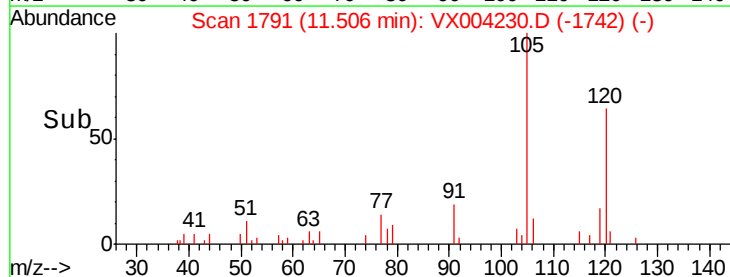
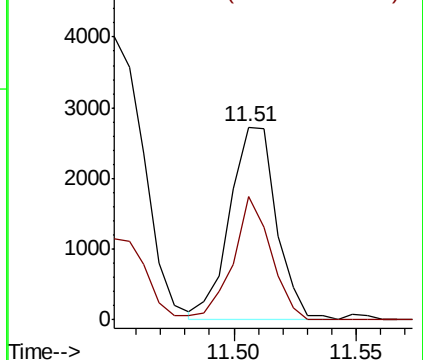
105 100

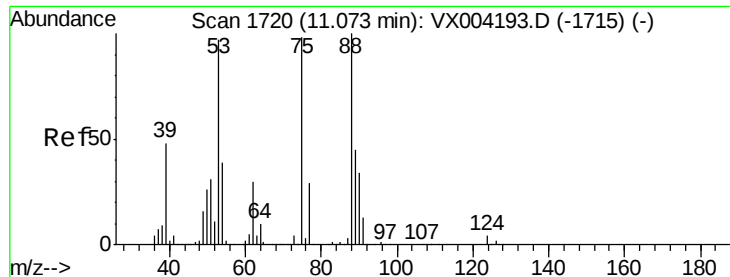
120 51.7 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 71.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004230.D

Acq: 23 Aug 2018 16:46

Instrument :

MSVOA_X

ClientSampled :

FM1026

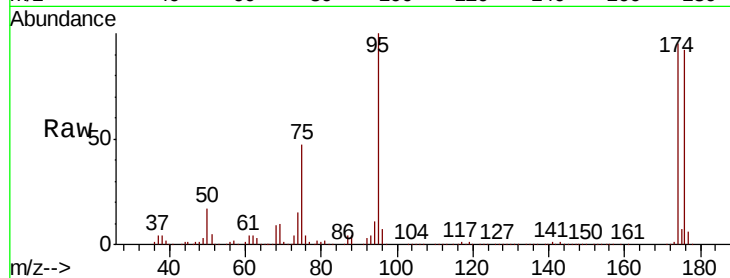
Tot Ion: 75 Resp: 128061

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

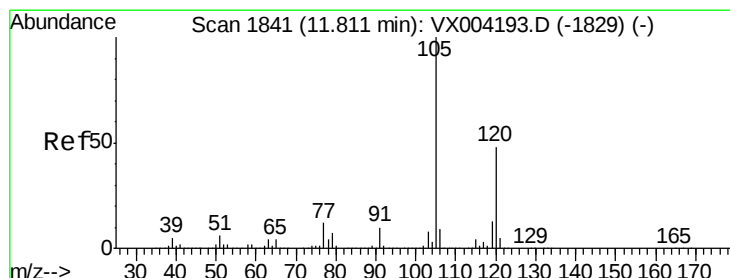
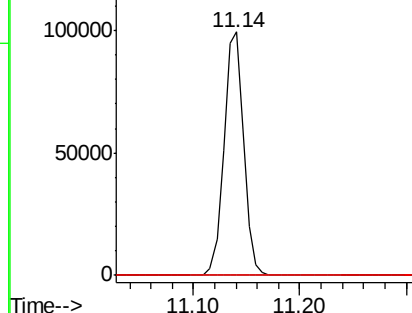
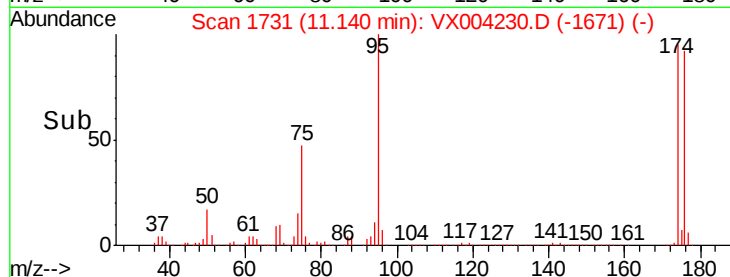
89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.63 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX004230.D

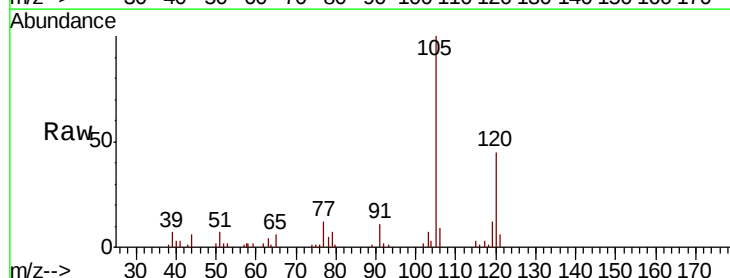
Acq: 23 Aug 2018 16:46

Tgt Ion:105 Resp: 10048

Ion Ratio Lower Upper

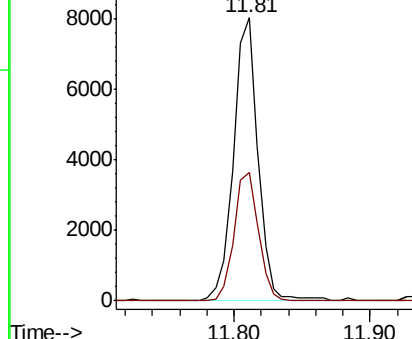
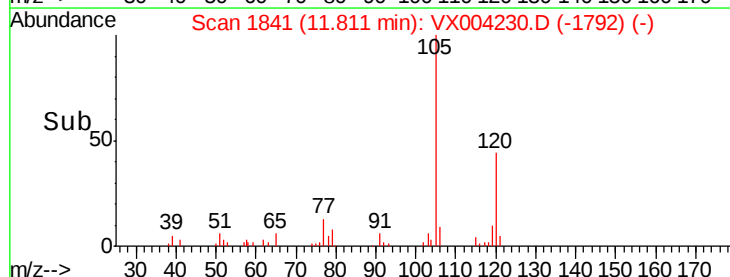
105 100

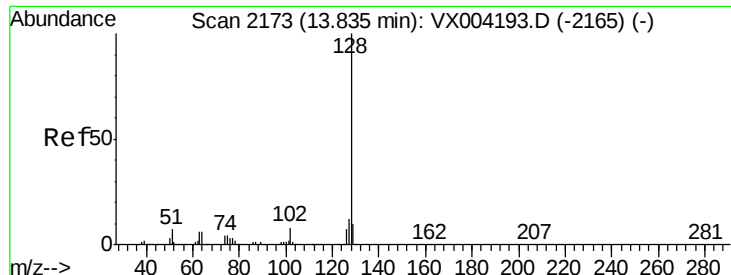
120 45.0 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

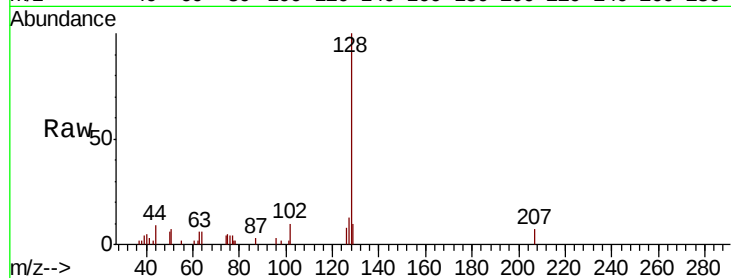




#95
Naphthalene
Concen: 0.25 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. -0.00 min
Lab File: VX004230.D
Acq: 23 Aug 2018 16:46

Instrument :
MSVOA_X
ClientSampleId :
FM1026

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	11.3	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

