

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021119\
 Data File : VX007475.D
 Acq On : 11 Feb 2019 18:26
 Operator : JC/SP
 Sample : K1449-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-19-OW

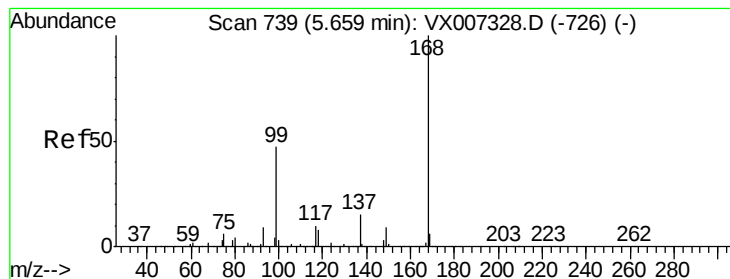
Quant Time: Feb 12 00:06:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	575180	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	867283	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	810354	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	398229	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	296126	48.50	ug/l	0.00
Spiked Amount			Recovery	=	97.00%	
35) Dibromofluoromethane	5.51	113	273902	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
50) Toluene-d8	8.71	98	1034349	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
62) 4-Bromofluorobenzene	11.13	95	370086	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1058	0.327	ug/l	94
3) Chloromethane	1.32	50	1297	0.200	ug/l	90
6) Chloroethane	1.59	64	20222	4.918	ug/l #	55
10) Methyl Iodide	2.52	142	4541	0.522	ug/l	96
11) Tert butyl alcohol	3.07	59	645	0.511	ug/l #	73
13) Acrolein	2.30	56	716	1.209	ug/l	96
15) Acrylonitrile	3.16	53	2097	0.671	ug/l #	78
16) Acetone	2.45	43	7179	2.567	ug/l #	83
17) Carbon Disulfide	2.57	76	9395	2.748	ug/l	97
18) Methyl Acetate	2.79	43	1561	0.805	ug/l #	1
20) Methylene Chloride	2.85	84	1942	Below Cal	#	69
21) trans-1,2-Dichloroethene	3.17	96	1597	0.273	ug/l #	81
25) 2-Butanone	4.71	43	1301	0.327	ug/l #	54
27) cis-1,2-Dichloroethene	4.59	96	2316	0.362	ug/l	82
38) Carbon Tetrachloride	5.67	117	50745	6.722	ug/l #	16
44) Trichloroethene	7.21	130	8716	1.263	ug/l	85
49) 1,4-Dioxane	7.76	88	326	9.223	ug/l #	33
64) Tetrachloroethene	9.34	164	3248	0.425	ug/l #	86
67) Ethyl Benzene	10.26	91	6433	0.226	ug/l #	88
68) m/p-Xylenes	10.36	106	2724	0.241	ug/l	96
71) Bromoform	10.85	173	266	4.076	ug/l #	29
73) Isopropylbenzene	11.02	105	7501	0.277	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	178252	23.012	ug/l #	33
78) n-propylbenzene	11.36	91	9088	0.306	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.13	75	178252	69.341	ug/l #	9
93) 1,2,4-Trichlorobenzene	13.64	180	2084	0.227	ug/l	85
95) Naphthalene	13.83	128	10329	0.385	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

Instrument :

MSVOA_X

ClientSampleId :

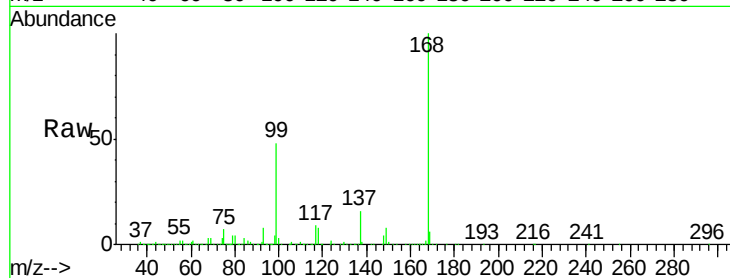
B-19-OW

Tot Ion:168 Resp: 575180

Ion Ratio Lower Upper

168 100

99 47.8 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

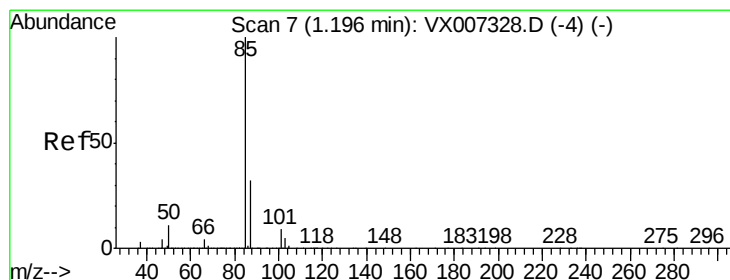
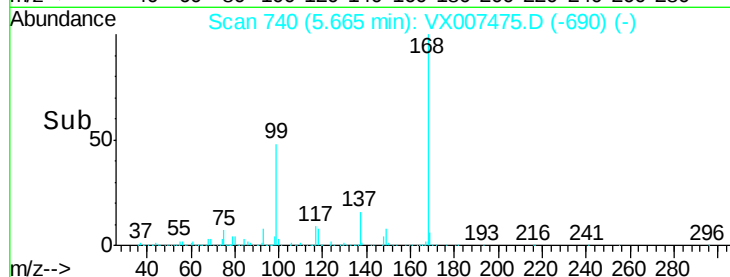
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.327 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX007475.D

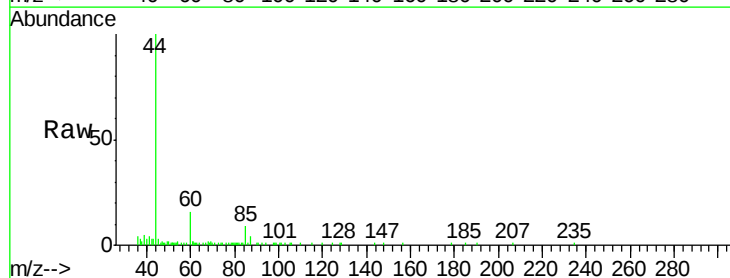
Acq: 11 Feb 2019 18:26

Tgt Ion: 85 Resp: 1058

Ion Ratio Lower Upper

85 100

87 35.0 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1000

800

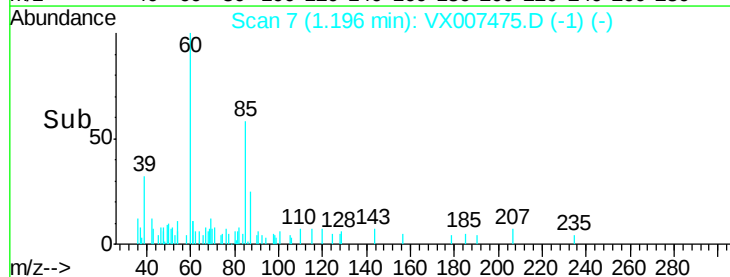
600

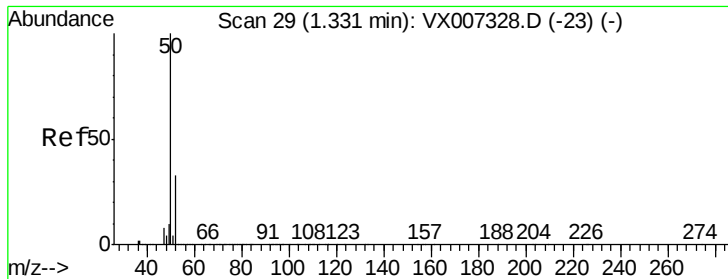
400

200

0

Time--> 1.15 1.20 1.25





#3

Chloromethane

Concen: 0.200 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

Instrument :

MSVOA_X

ClientSampled :

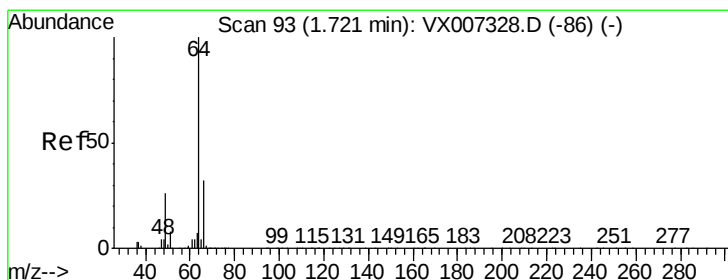
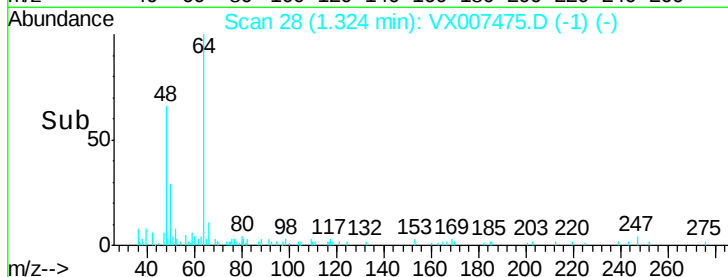
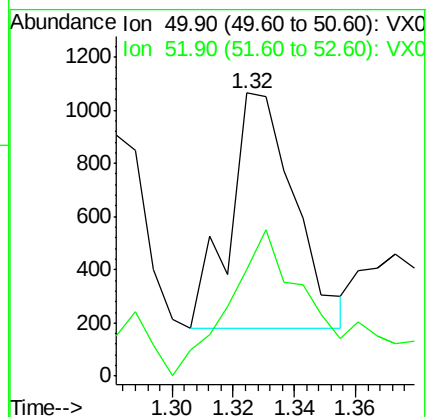
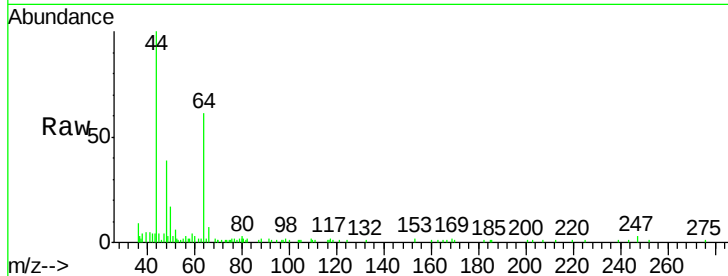
B-19-OW

Tot Ion: 50 Resp: 1297

Ion Ratio Lower Upper

50 100

52 38.2 26.1 39.1



#6

Chloroethane

Concen: 4.918 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.13 min

Lab File: VX007475.D

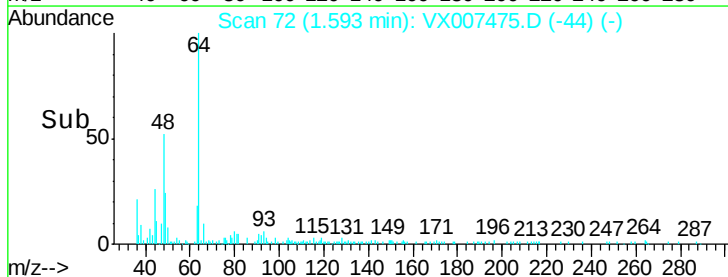
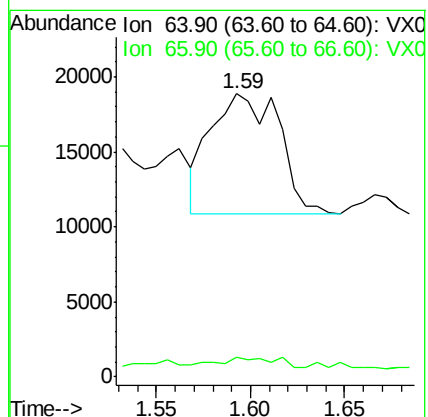
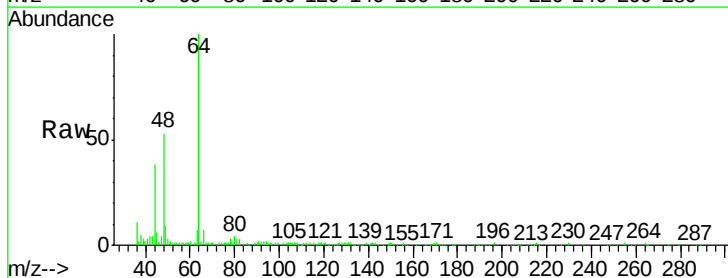
Acq: 11 Feb 2019 18:26

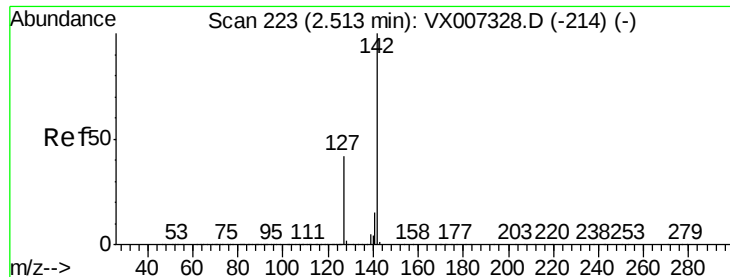
Tgt Ion: 64 Resp: 20222

Ion Ratio Lower Upper

64 100

66 6.9 25.5 38.3#

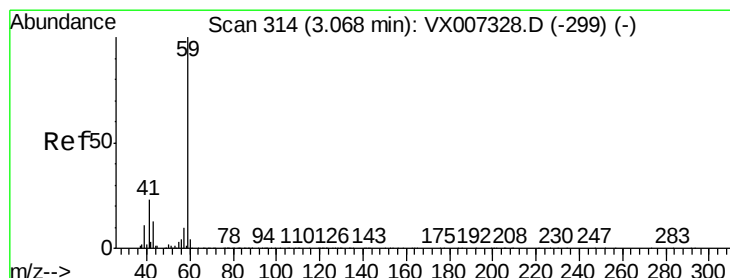
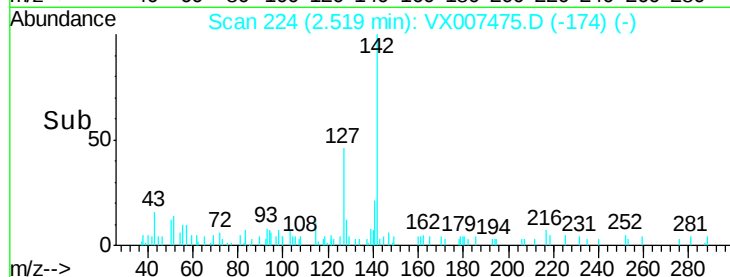
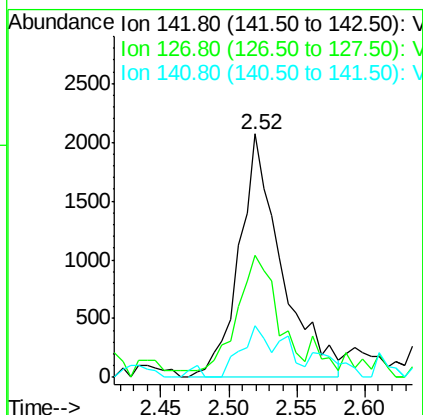
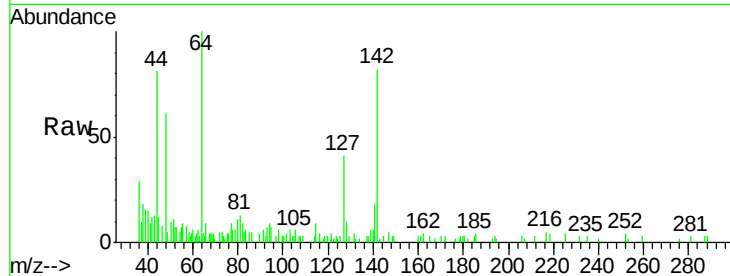




#10
Methvl Iodide
Concen: 0.522 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX007475.D
Acq: 11 Feb 2019 18:26

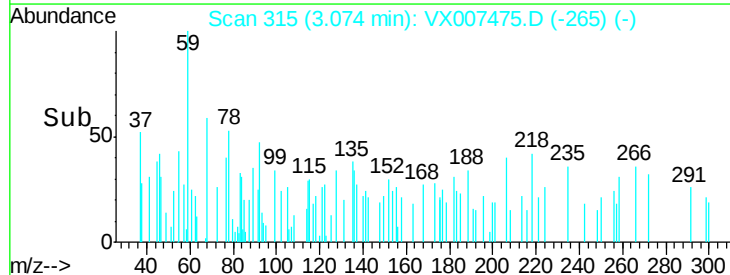
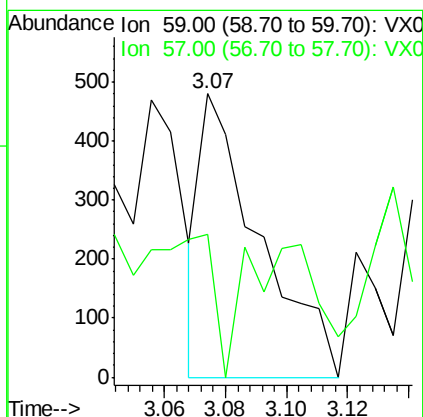
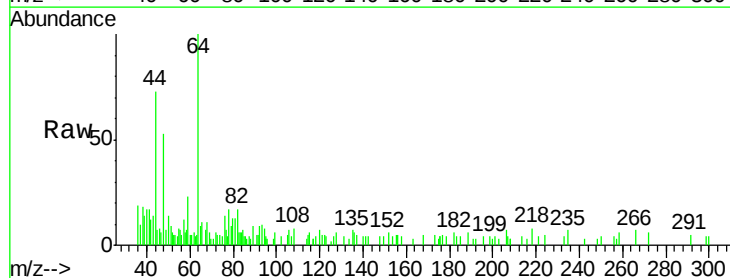
Instrument :
MSVOA_X
ClientSampled :
B-19-OW

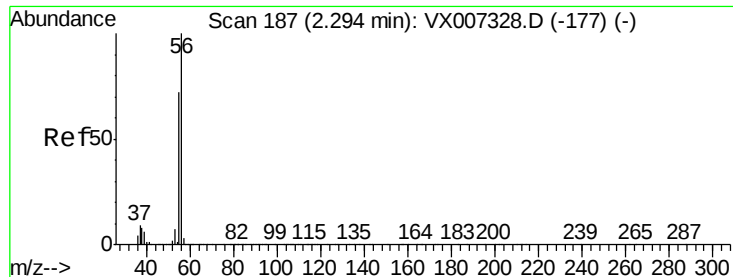
Tot Ion:142 Resp: 4541
Ion Ratio Lower Upper
142 100
127 44.8 33.7 50.5
141 13.1 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.511 ug/l
RT: 3.07 min Scan# 315
Delta R.T. 0.01 min
Lab File: VX007475.D
Acq: 11 Feb 2019 18:26

Tgt Ion: 59 Resp: 645
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#13

Acrolein

Concen: 1.209 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

Instrument :

MSVOA_X

ClientSampled :

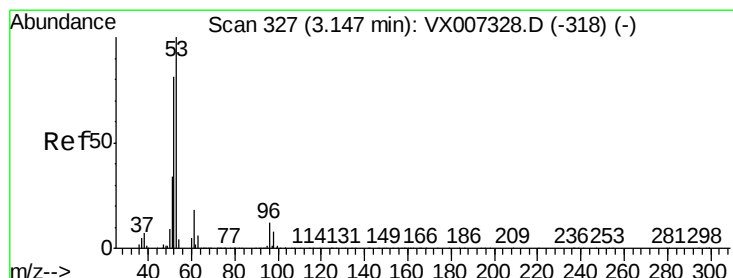
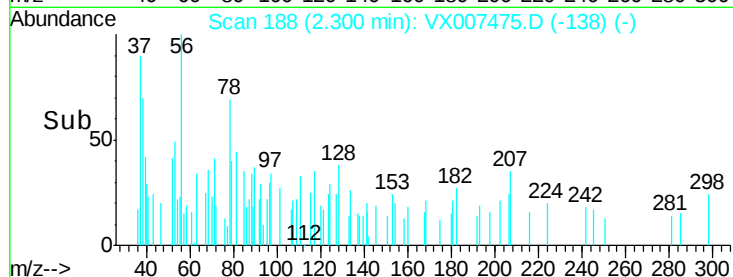
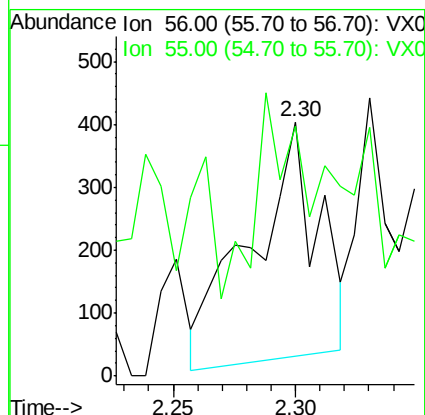
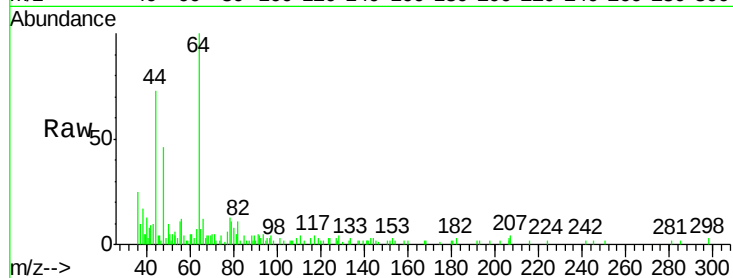
B-19-OW

Tot Ion: 56 Resp: 716

Ion Ratio Lower Upper

56 100

55 74.2 56.9 85.3



#15

Acrylonitrile

Concen: 0.671 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

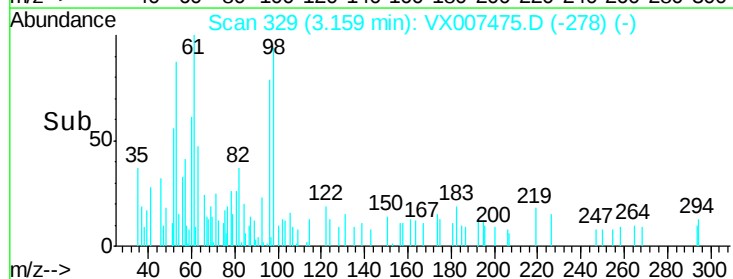
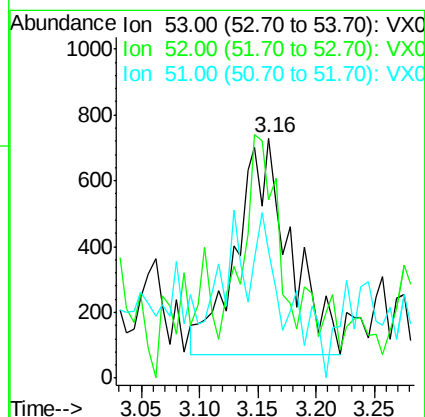
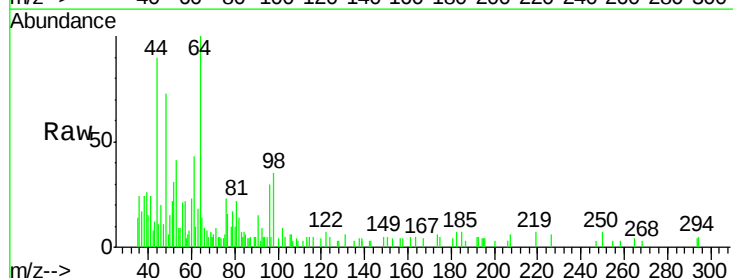
Tgt Ion: 53 Resp: 2097

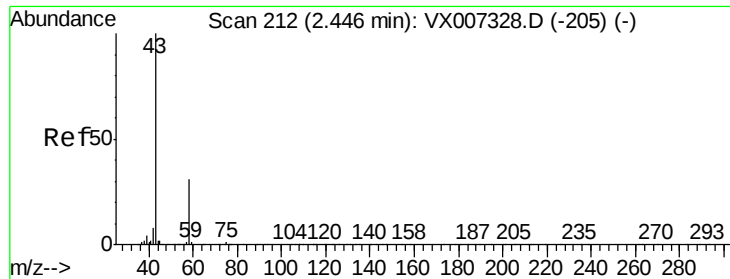
Ion Ratio Lower Upper

53 100

52 67.0 66.4 99.6

51 16.4 28.4 42.6#





#16

Acetone

Concen: 2.567 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

Instrument :

MSVOA_X

ClientSampleId :

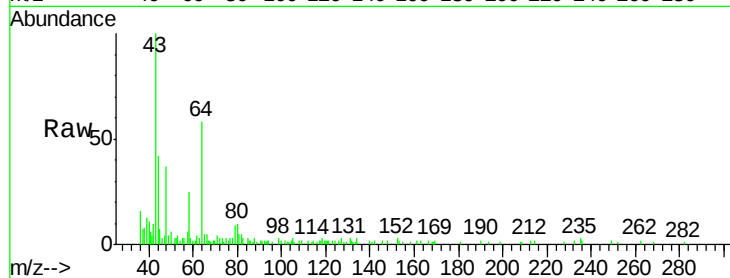
B-19-OW

Tot Ion: 43 Resp: 7179

Ion Ratio Lower Upper

43 100

58 22.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

5000

4000

3000

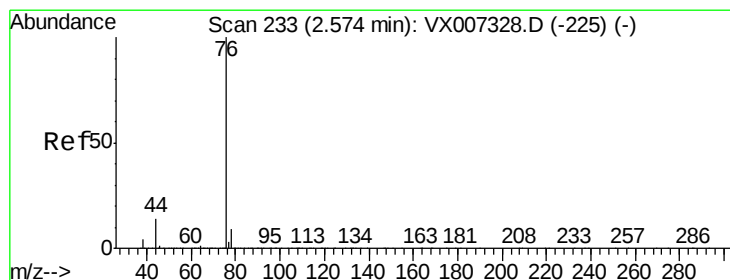
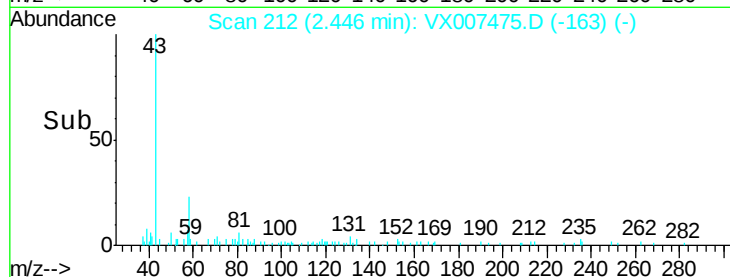
2000

1000

0

Time-->

2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 2.748 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007475.D

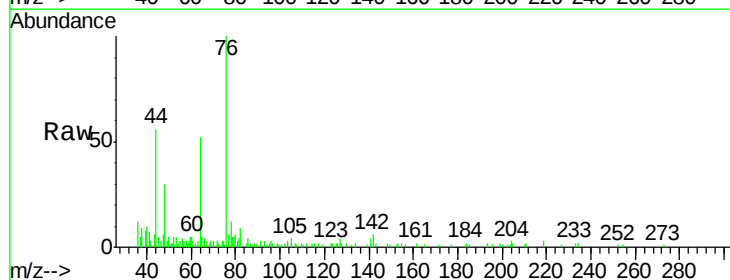
Acq: 11 Feb 2019 18:26

Tgt Ion: 76 Resp: 9395

Ion Ratio Lower Upper

76 100

78 7.7 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

5000

4000

3000

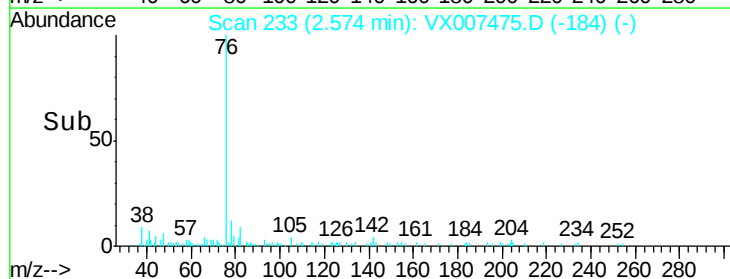
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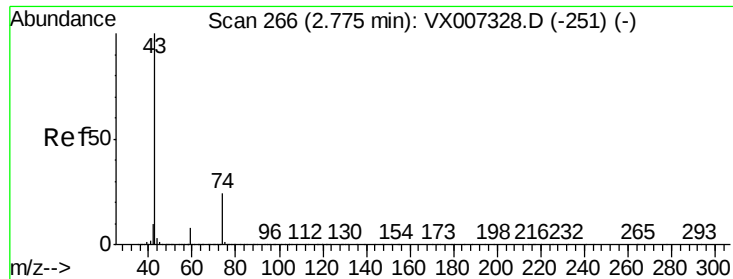
1000

0

Time-->

2.50 2.60

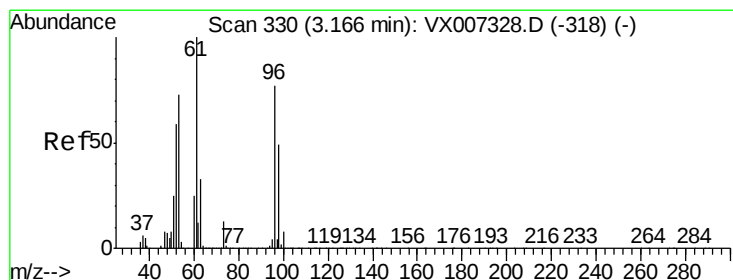
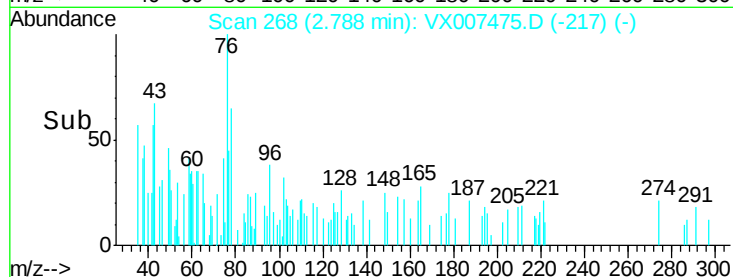
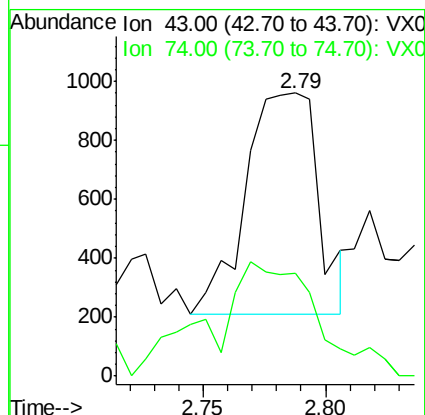
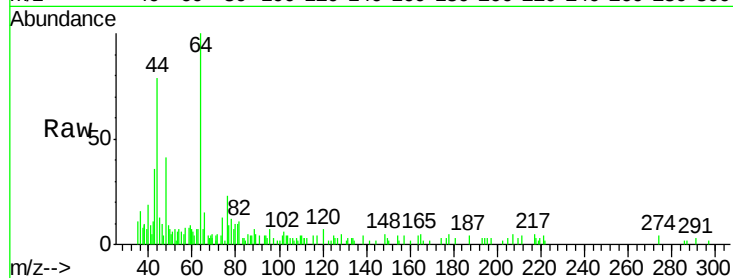




#18
Methvl Acetate
Concen: 0.805 ug/l
RT: 2.79 min Scan# 268
Delta R.T. 0.01 min
Lab File: VX007475.D
Acq: 11 Feb 2019 18:26

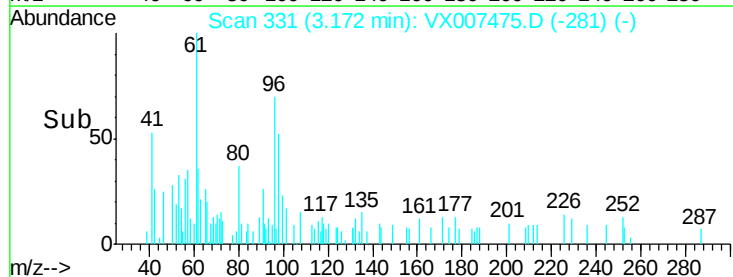
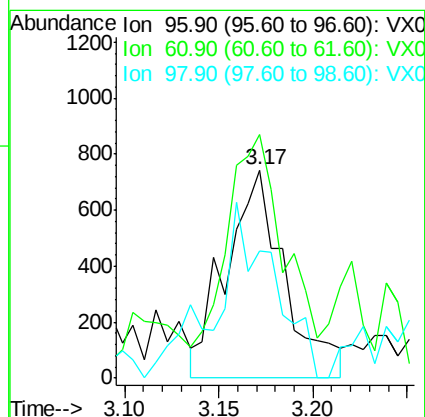
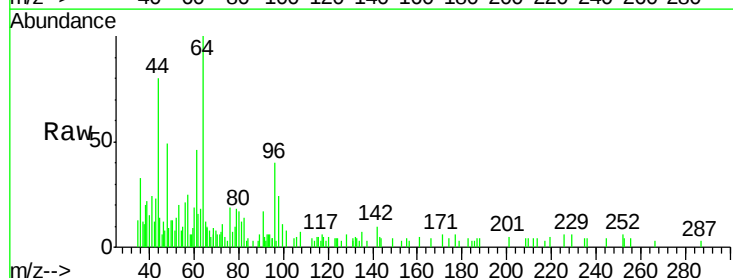
Instrument :
MSVOA_X
ClientSampled :
B-19-OW

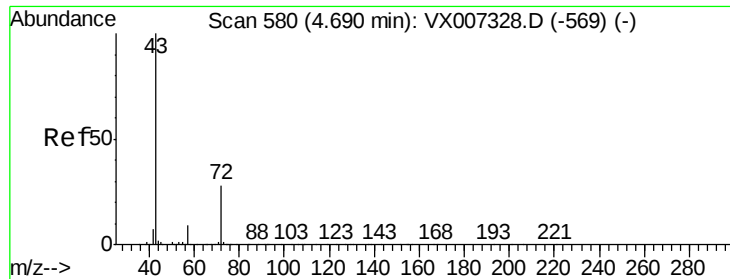
Tot Ion: 43 Resp: 1561
Ion Ratio Lower Upper
43 100
74 75.7 19.4 29.2#



#21
trans-1,2-Dichloroethene
Concen: 0.273 ug/l
RT: 3.17 min Scan# 331
Delta R.T. 0.01 min
Lab File: VX007475.D
Acq: 11 Feb 2019 18:26

Tgt Ion: 96 Resp: 1597
Ion Ratio Lower Upper
96 100
61 108.6 104.6 156.8
98 48.9 51.0 76.4#





#25

2-Butanone

Concen: 0.327 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.02 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

Instrument :

MSVOA_X

ClientSampled :

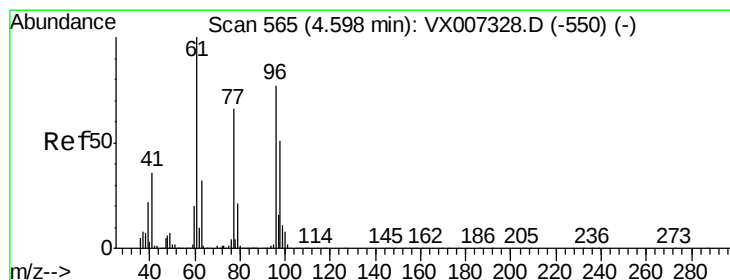
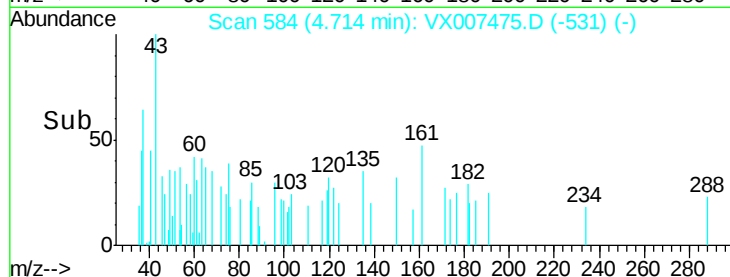
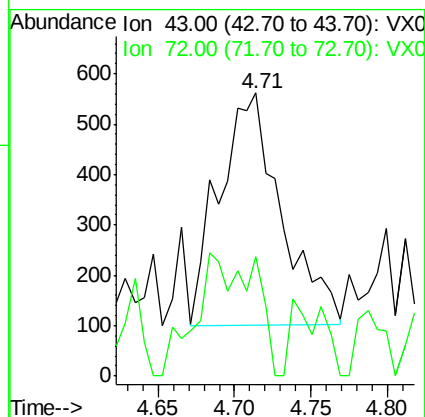
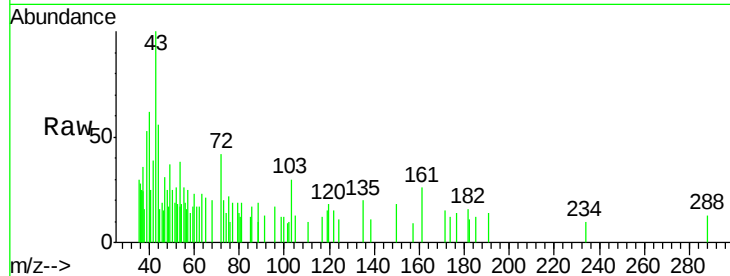
B-19-OW

Tot Ion: 43 Resp: 1301

Ion Ratio Lower Upper

43 100

72 51.7 22.2 33.2#



#27

cis-1,2-Dichloroethene

Concen: 0.362 ug/l

RT: 4.59 min Scan# 563

Delta R.T. -0.01 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

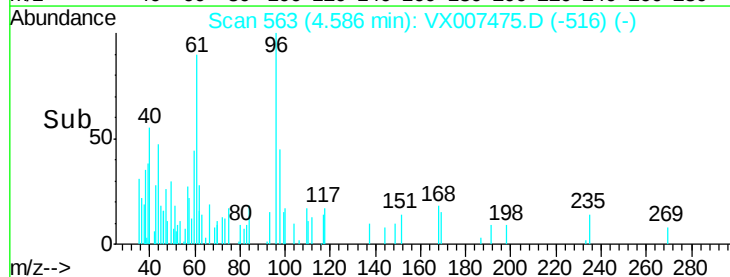
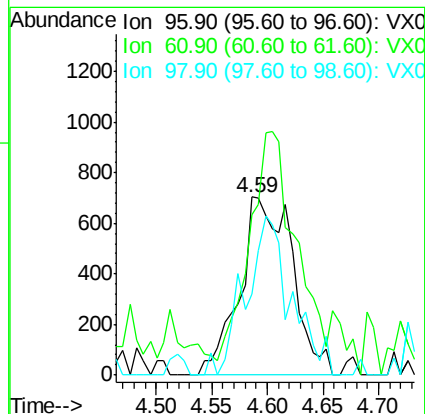
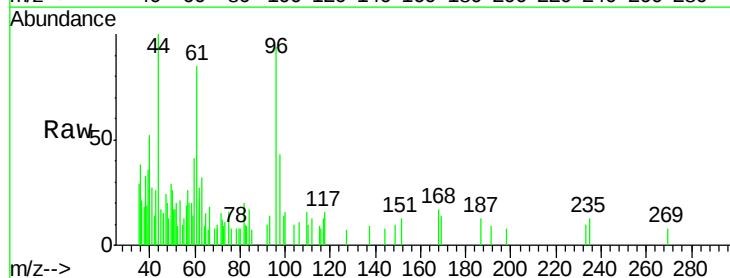
Tgt Ion: 96 Resp: 2316

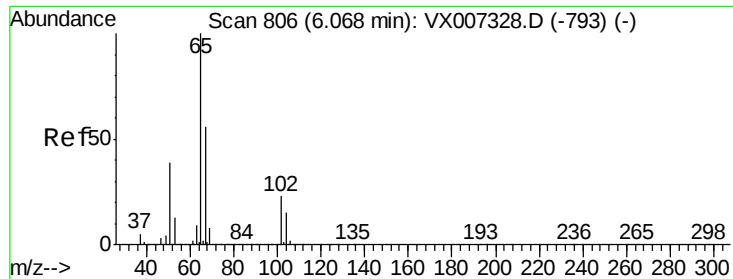
Ion Ratio Lower Upper

96 100

61 109.5 0.0 265.6

98 77.2 0.0 131.6

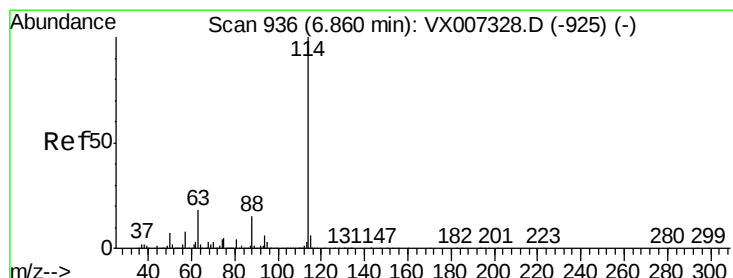
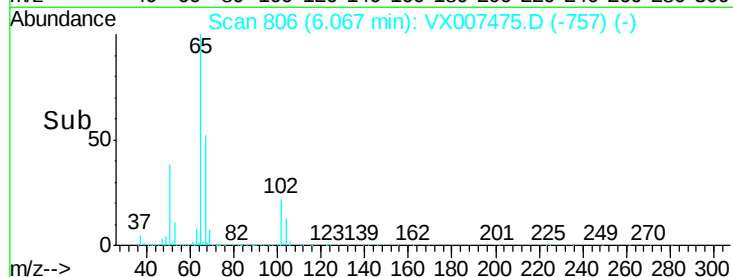
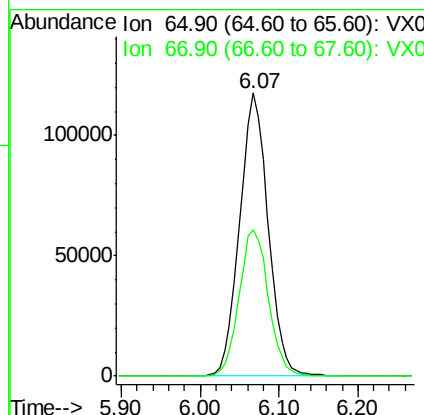
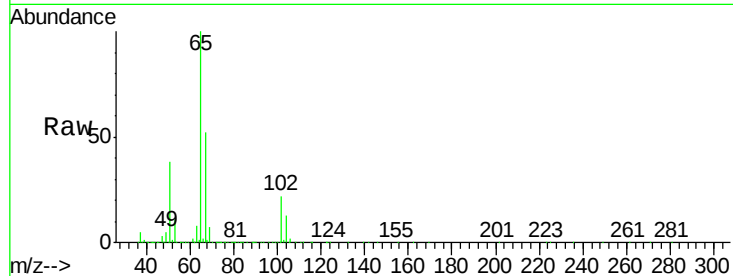




#33
 1,2-Dichloroethane-d4
 Concen: 48.505 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX007475.D
 Acq: 11 Feb 2019 18:26

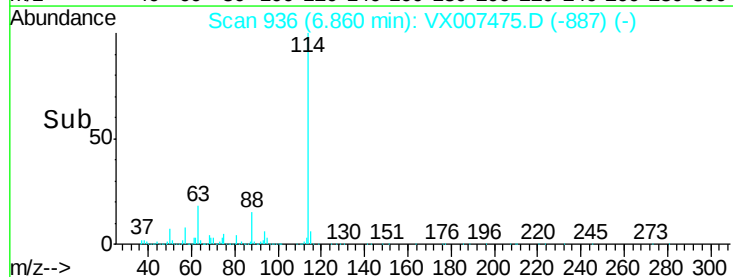
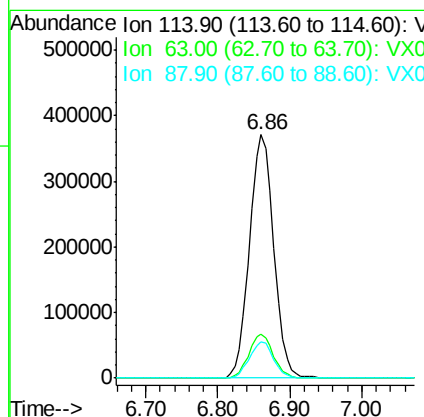
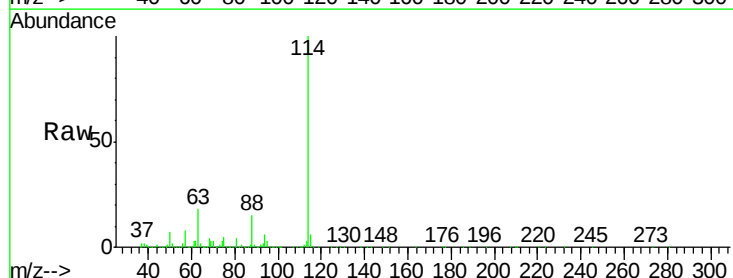
Instrument :
 MSVOA_X
 ClientSampled :
 B-19-OW

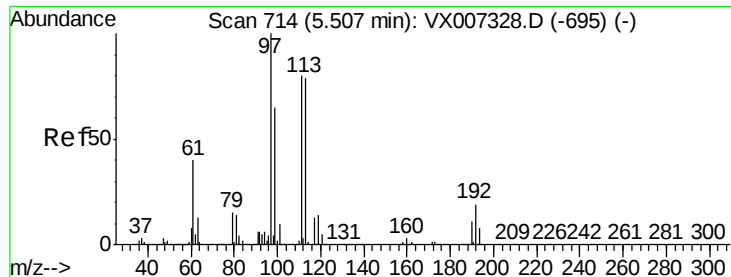
Tot Ion: 65 Resp: 296126
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007475.D
 Acq: 11 Feb 2019 18:26

Tgt Ion: 114 Resp: 867283
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 35.6
 88 14.8 0.0 29.6

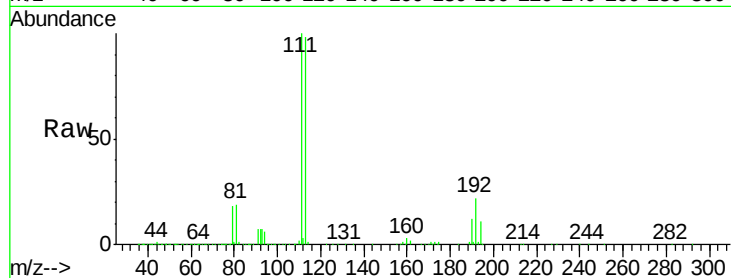




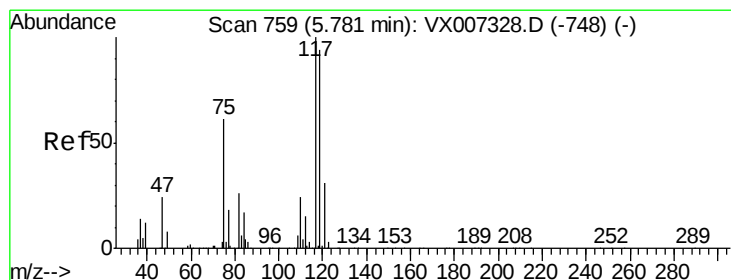
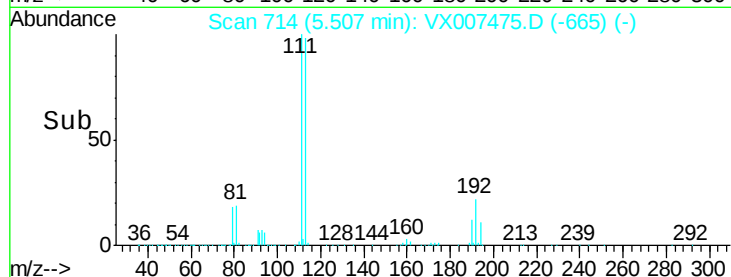
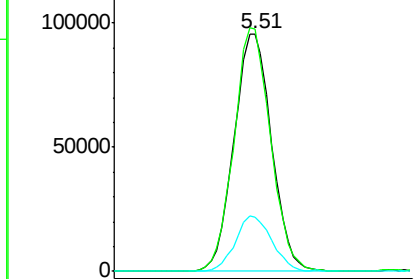
#35
Dibromofluoromethane
Concen: 48.537 ug/l
RT: 5.51 min Scan# 714
Delta R.T. -0.00 min
Lab File: VX007475.D
Acq: 11 Feb 2019 18:26

Instrument :
MSVOA_X
ClientSampleId :
B-19-OW

Tot Ion	Ratio	Lower	Upper
113	100		
111	100.5	81.8	122.8
192	22.9	18.5	27.7

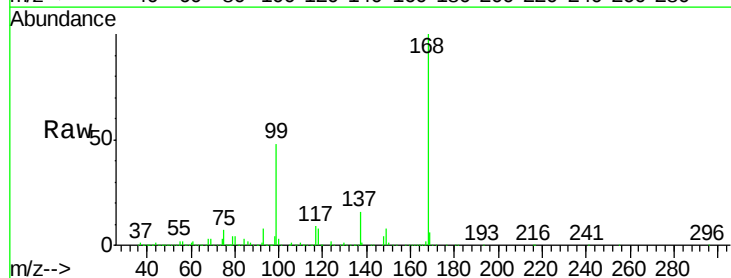


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

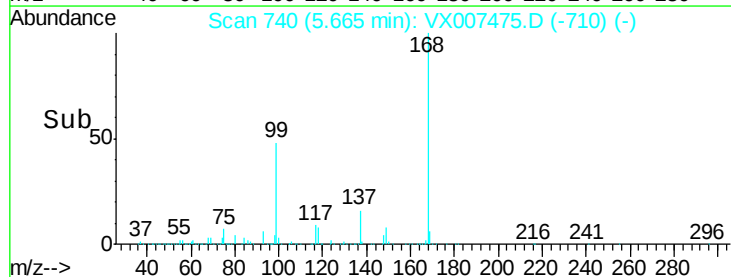
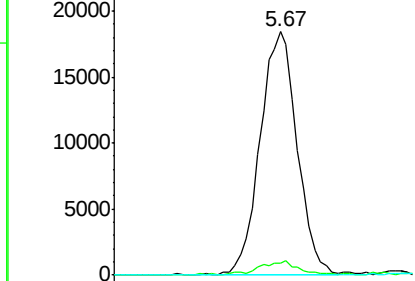


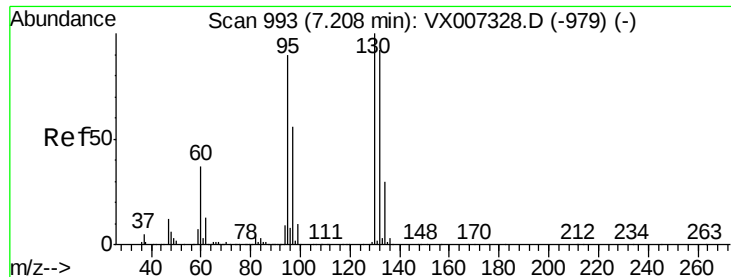
#38
Carbon Tetrachloride
Concen: 6.722 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX007475.D
Acq: 11 Feb 2019 18:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	75.3	112.9#
121	0.0	25.0	37.4#



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





#44

Trichloroethene

Concen: 1.263 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.00 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

Instrument :

MSVOA_X

ClientSampleId :

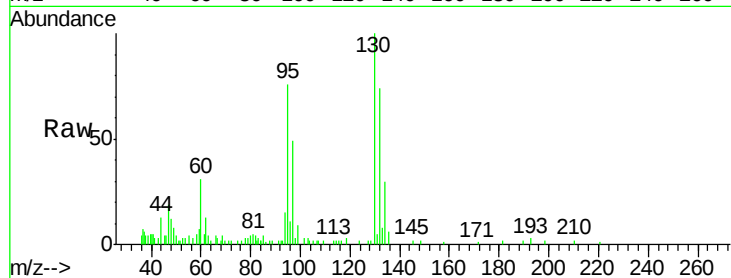
B-19-OW

Tot Ion:130 Resp: 8716

Ion Ratio Lower Upper

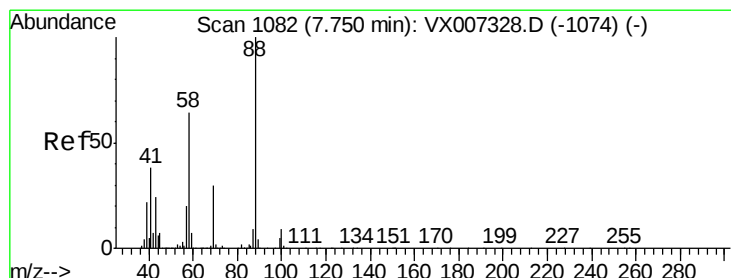
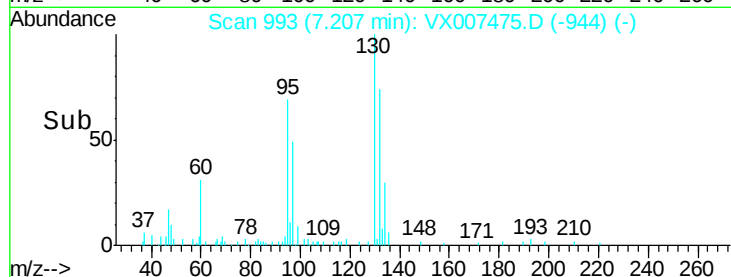
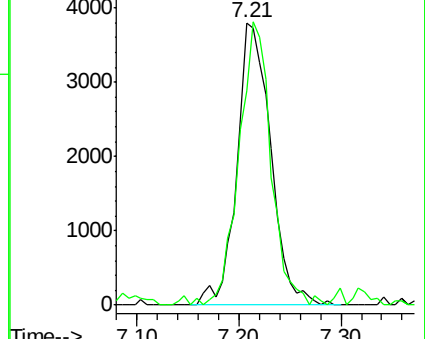
130 100

95 76.0 0.0 180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 9.223 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

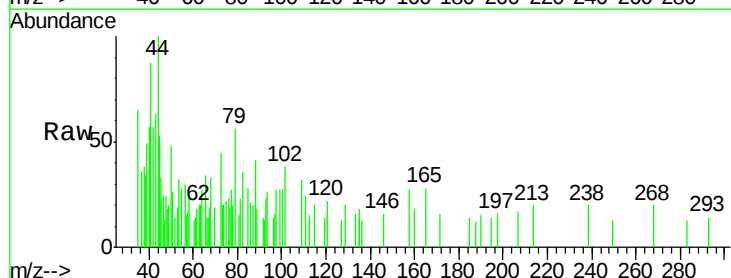
Tgt Ion: 88 Resp: 326

Ion Ratio Lower Upper

88 100

43 48.2 24.2 36.4#

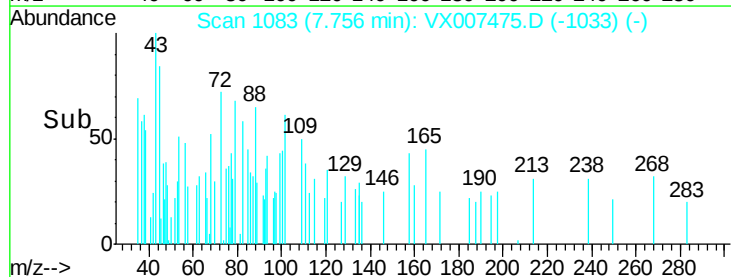
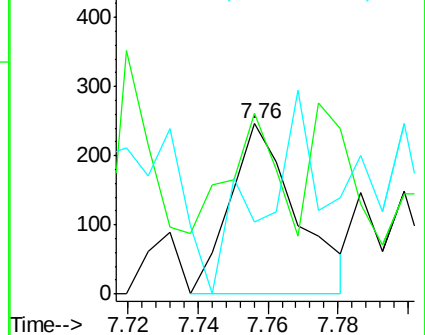
58 0.0 53.0 79.4#

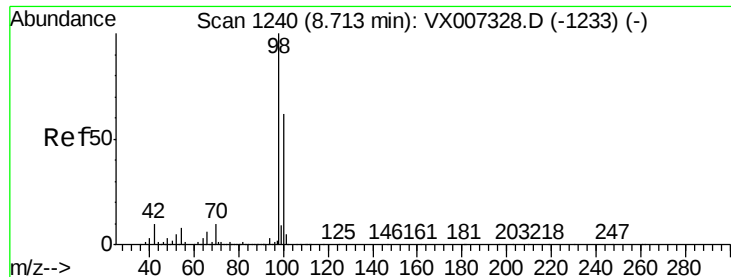


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.403 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

Instrument :

MSVOA_X

ClientSampleId :

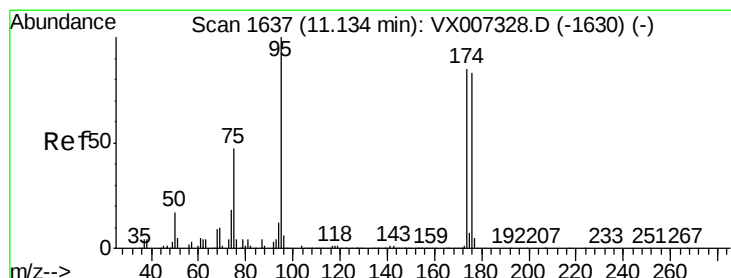
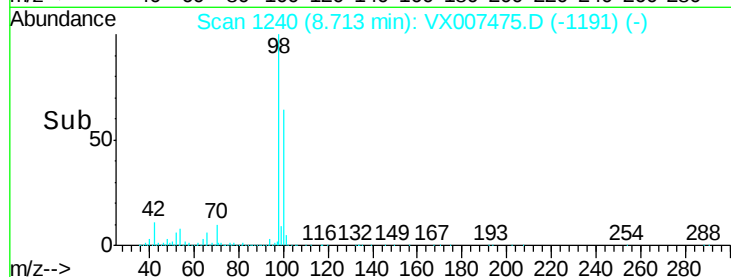
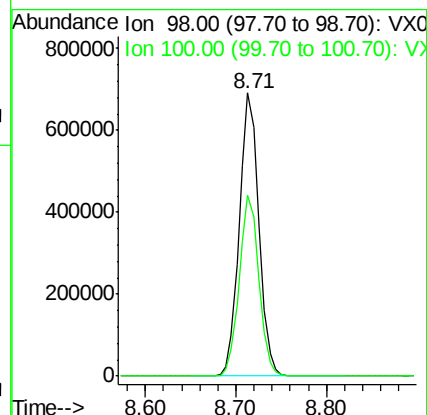
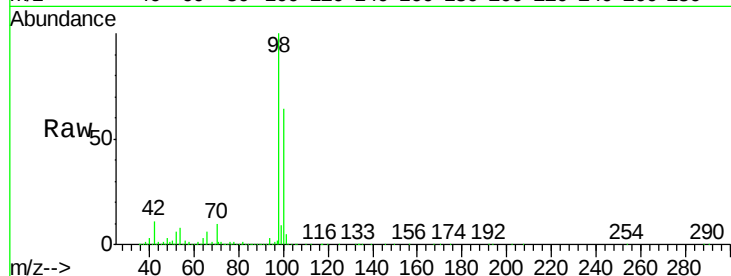
B-19-OW

Tot Ion: 98 Resp: 1034349

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 48.415 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

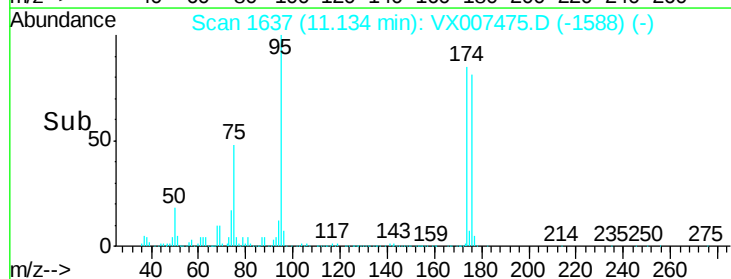
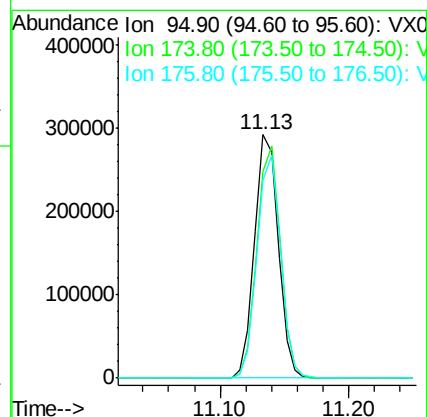
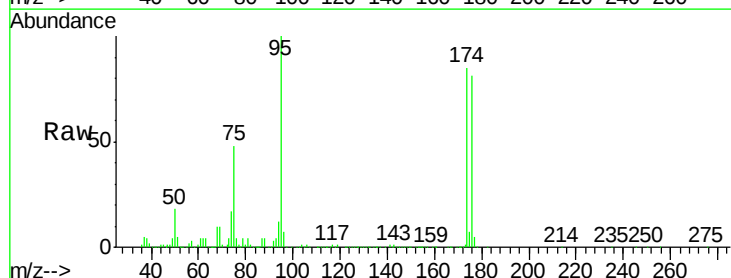
Tgt Ion: 95 Resp: 370086

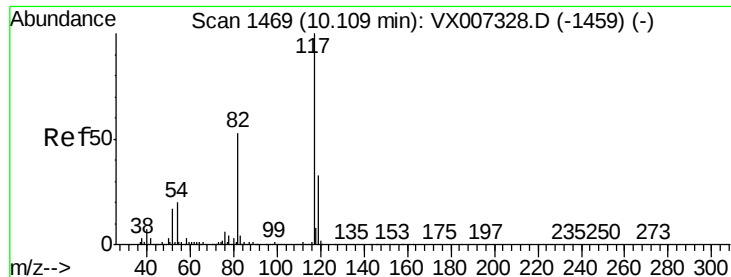
Ion Ratio Lower Upper

95 100

174 94.3 0.0 189.2

176 91.0 0.0 186.2

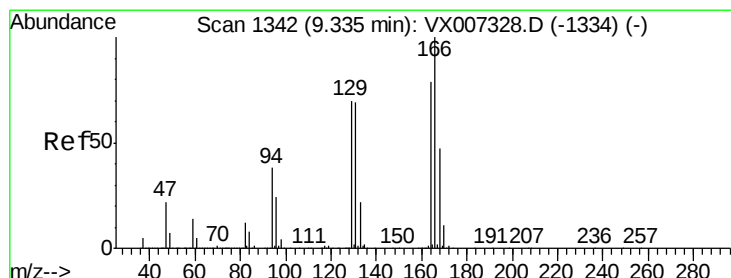
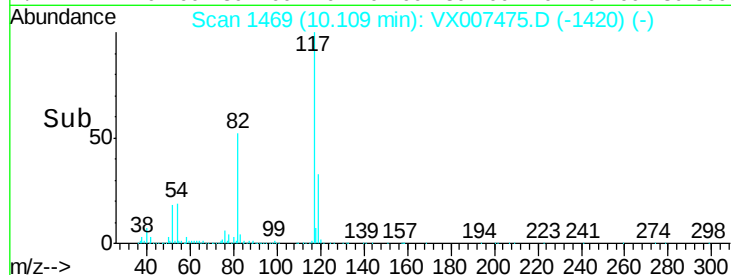
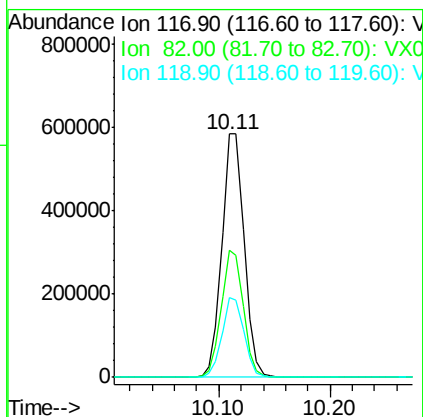
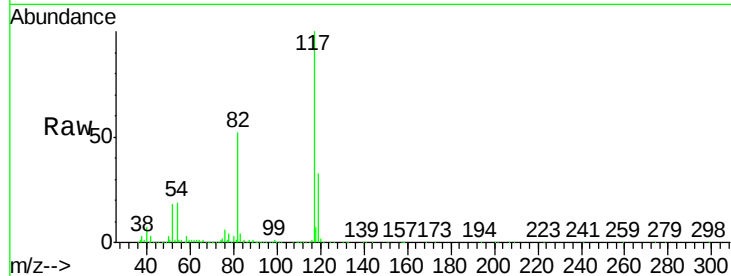




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX007475.D
Acq: 11 Feb 2019 18:26

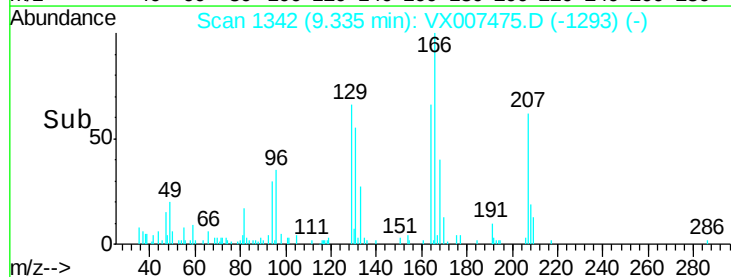
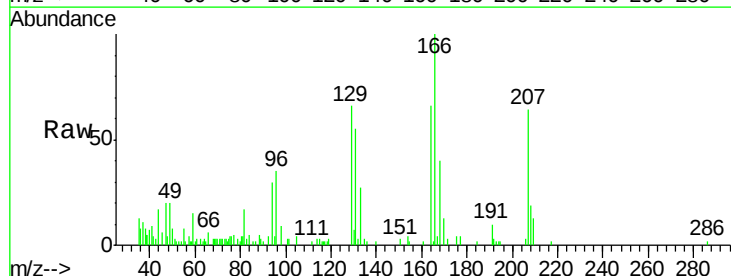
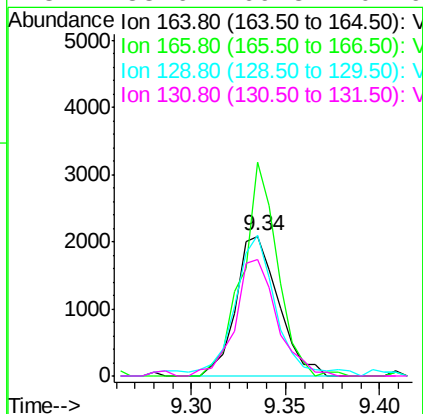
Instrument :
MSVOA_X
ClientSampleId :
B-19-OW

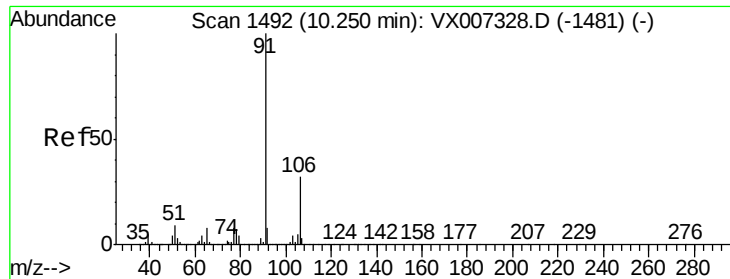
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.0	42.1	63.1
119	32.6	26.5	39.7



#64
Tetrachloroethene
Concen: 0.425 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX007475.D
Acq: 11 Feb 2019 18:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	152.6	101.0	151.4#
129	97.6	70.5	105.7
131	83.6	69.8	104.6





#67

Ethyl Benzene

Concen: 0.226 ug/l

RT: 10.26 min Scan# 1493

Delta R.T. 0.01 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

Instrument :

MSVOA_X

ClientSampleId :

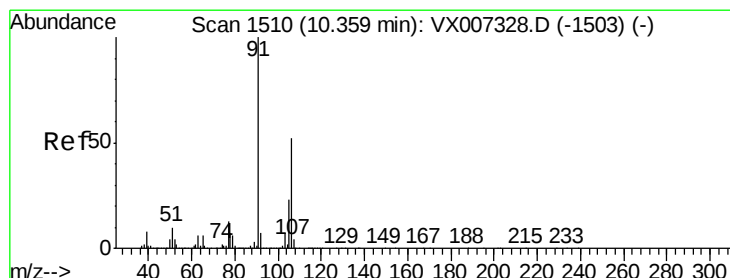
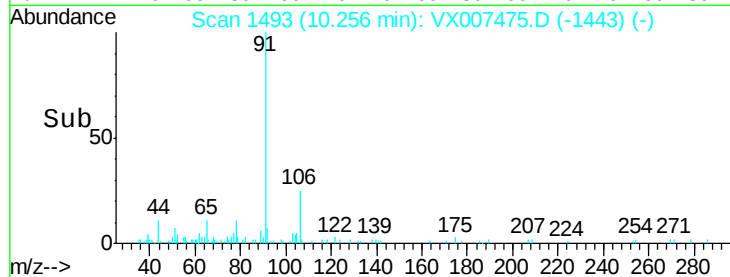
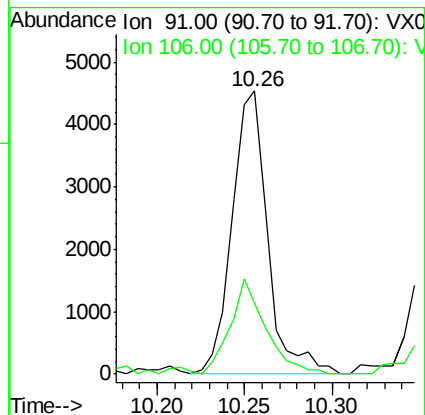
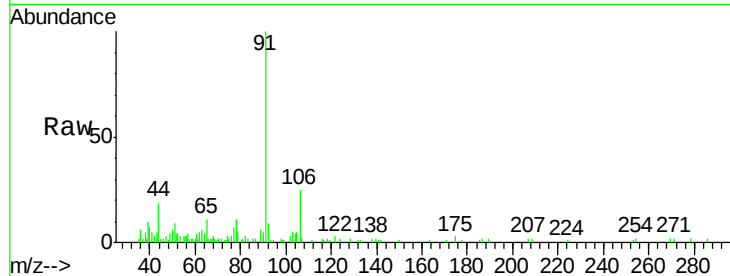
B-19-OW

Tot Ion: 91 Resp: 6433

Ion Ratio Lower Upper

91 100

106 25.2 25.4 38.0#



#68

m/p-Xylenes

Concen: 0.241 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX007475.D

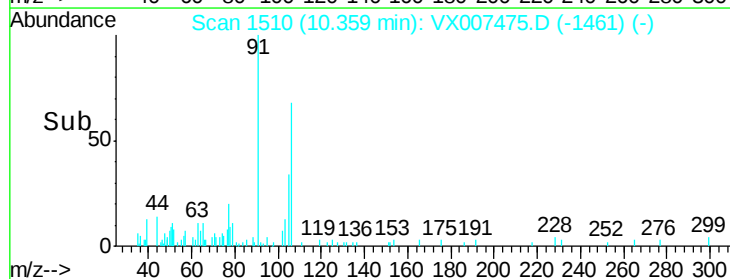
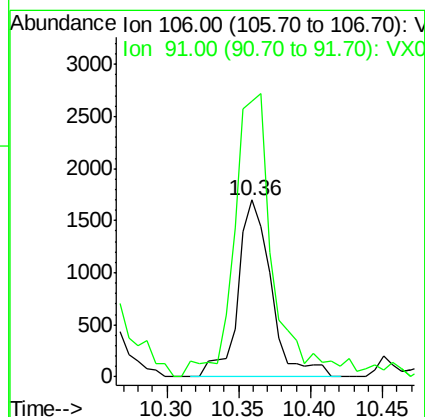
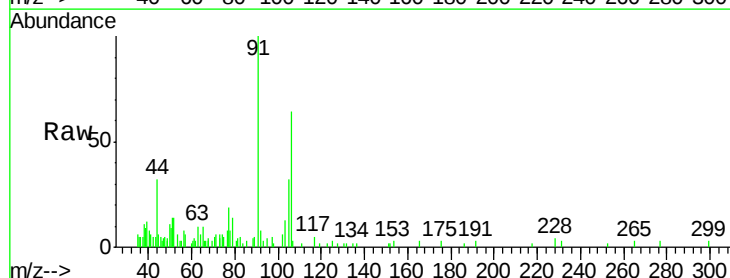
Acq: 11 Feb 2019 18:26

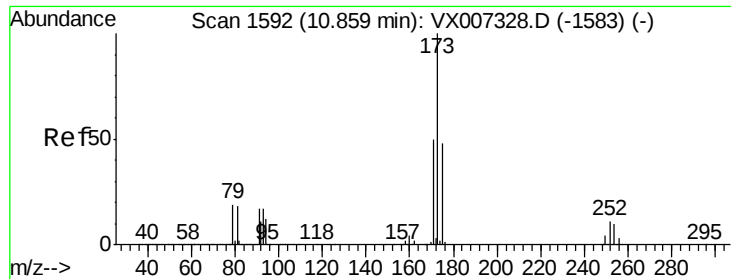
Tgt Ion: 106 Resp: 2724

Ion Ratio Lower Upper

106 100

91 189.3 156.6 234.8





#71

Bromoform

Concen: 4.076 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. -0.01 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

Instrument :

MSVOA_X

ClientSampled :

B-19-OW

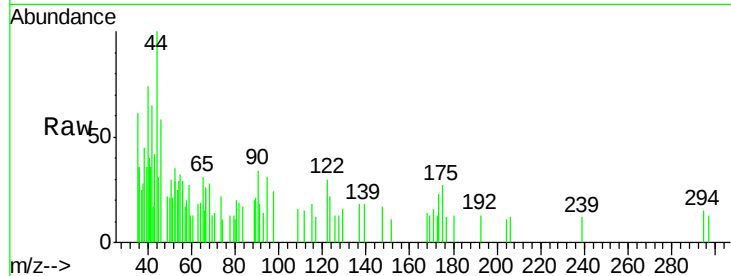
Tot Ion:173 Resp: 266

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

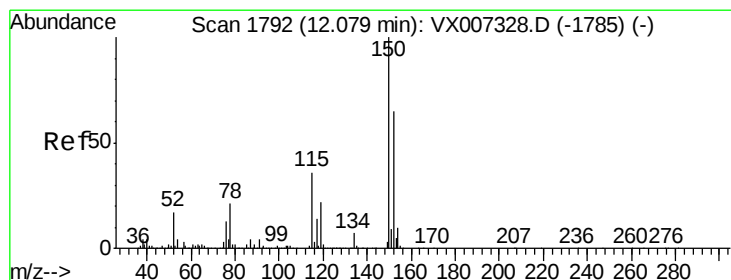
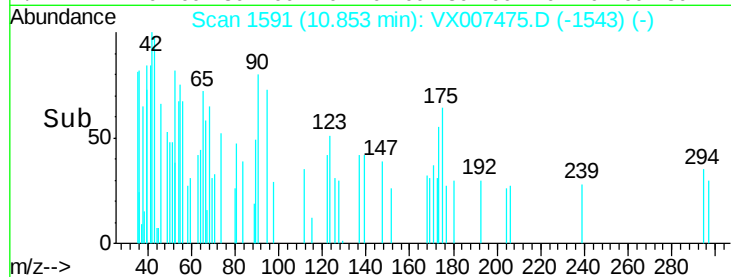
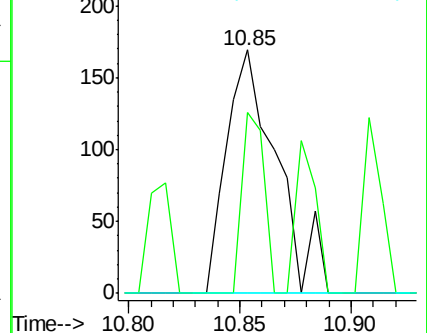
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

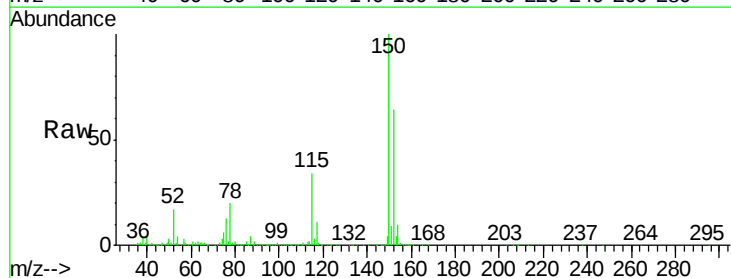
Tgt Ion:152 Resp: 398229

Ion Ratio Lower Upper

152 100

115 54.6 38.0 114.0

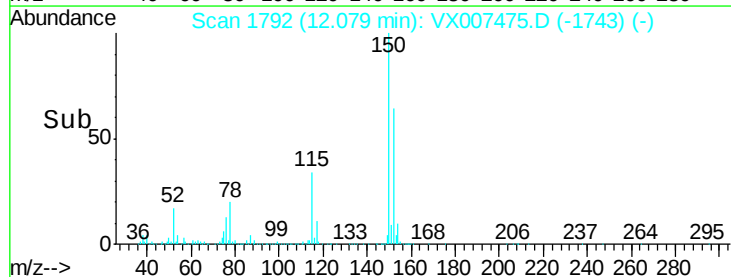
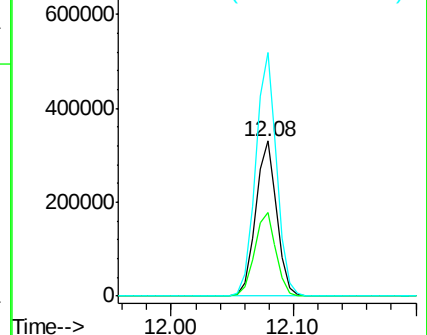
150 155.9 0.0 346.4

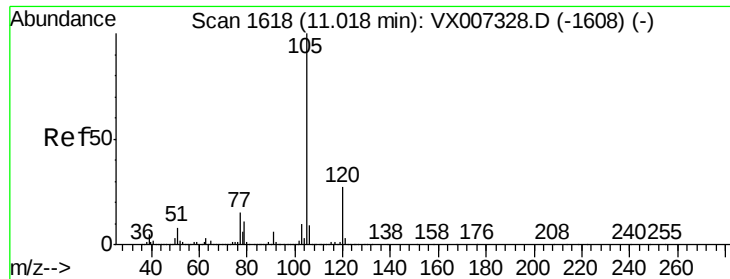


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 0.277 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

Instrument :

MSVOA_X

ClientSampleId :

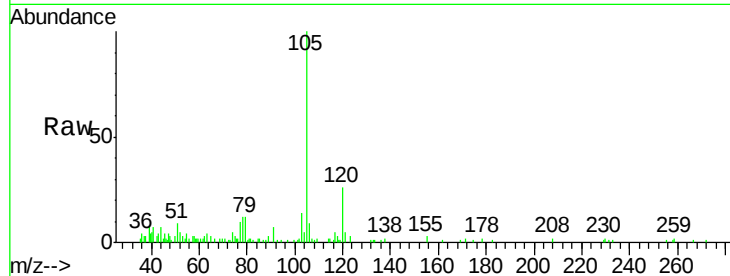
B-19-OW

Tot Ion:105 Resp: 7501

Ion Ratio Lower Upper

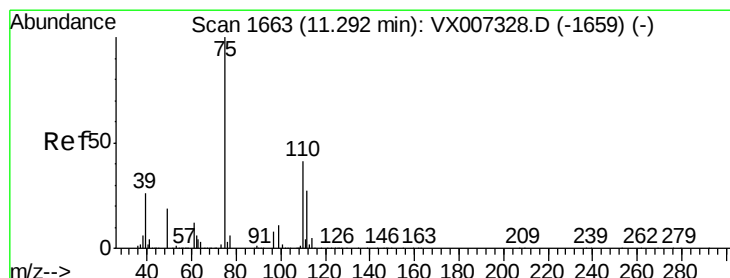
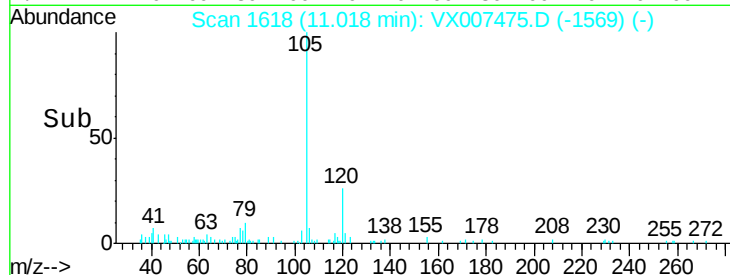
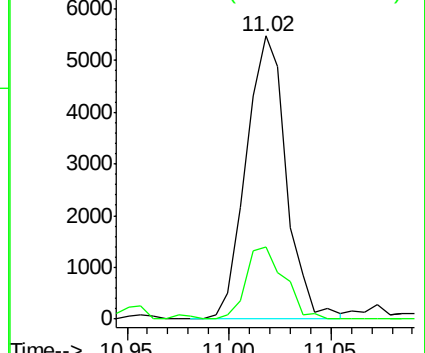
105 100

120 24.3 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 23.012 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007475.D

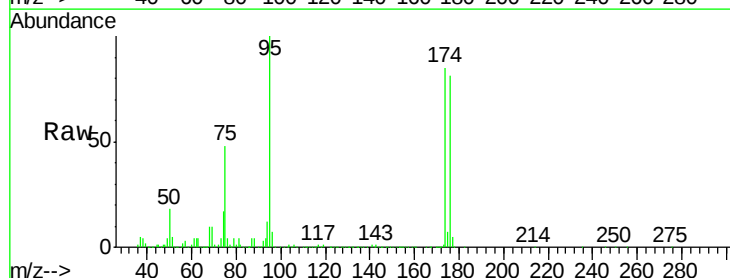
Acq: 11 Feb 2019 18:26

Tgt Ion: 75 Resp: 178252

Ion Ratio Lower Upper

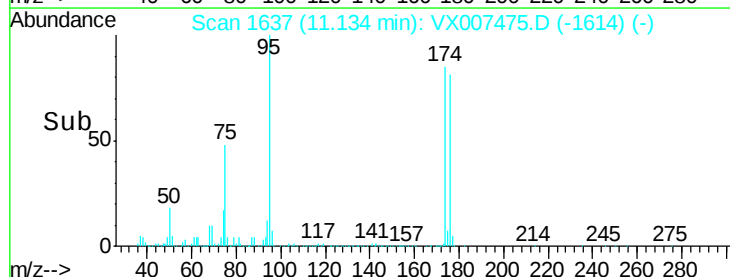
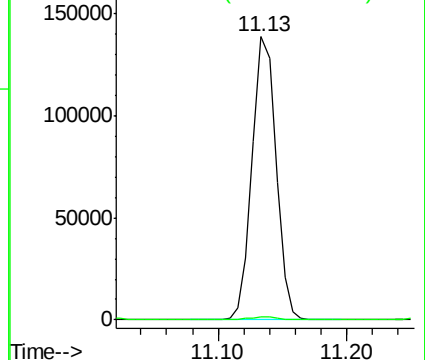
75 100

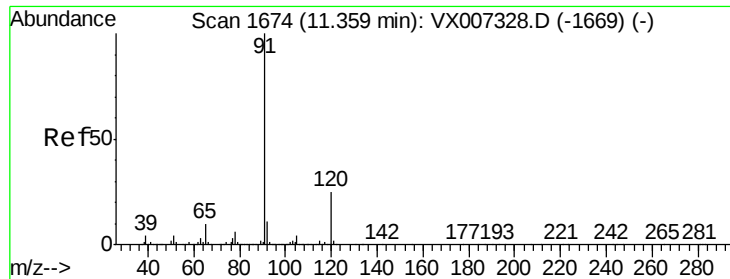
77 1.4 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 0.306 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

Instrument :

MSVOA_X

ClientSampleId :

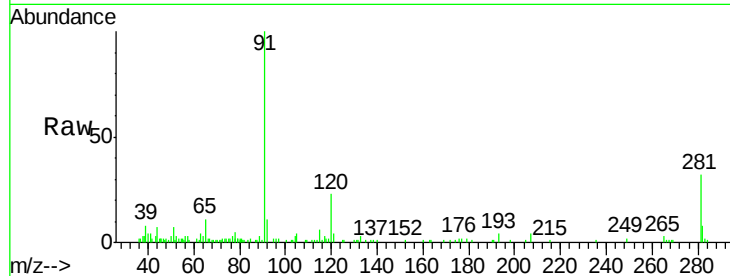
B-19-OW

Tot Ion: 91 Resp: 9088

Ion Ratio Lower Upper

91 100

120 21.5 12.4 37.2



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

8000

6000

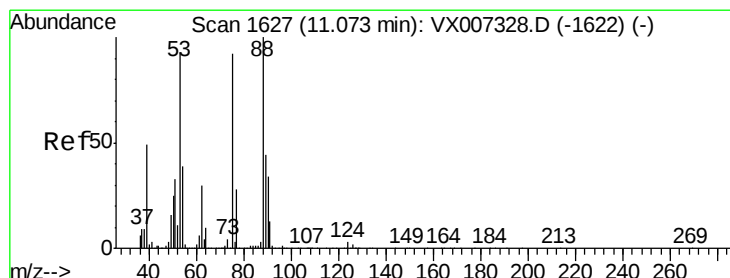
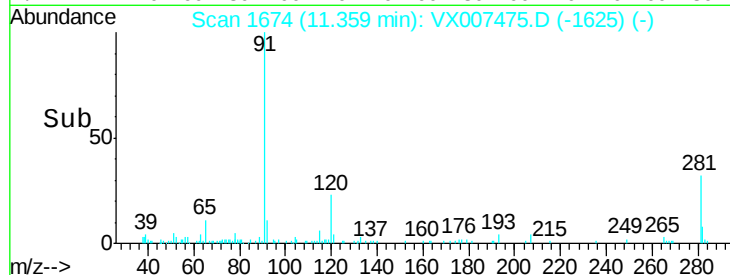
4000

2000

0

11.30 11.35 11.40

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 69.341 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007475.D

Acq: 11 Feb 2019 18:26

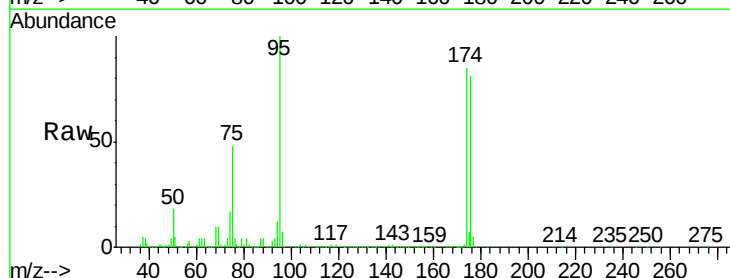
Tgt Ion: 75 Resp: 178252

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

89 0.1 41.4 62.0#



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

150000

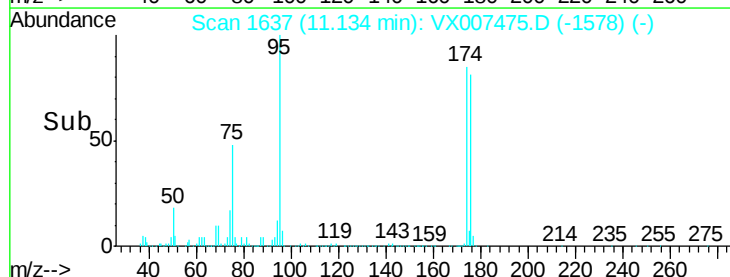
100000

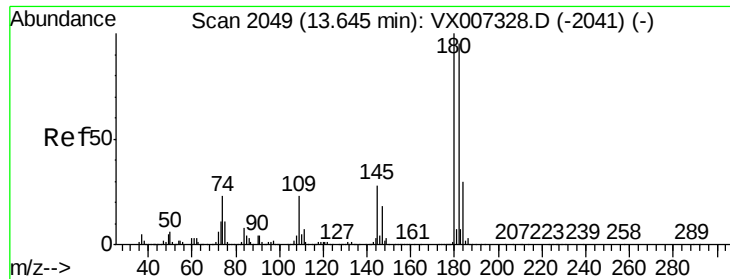
50000

0

11.10 11.20

Time-->

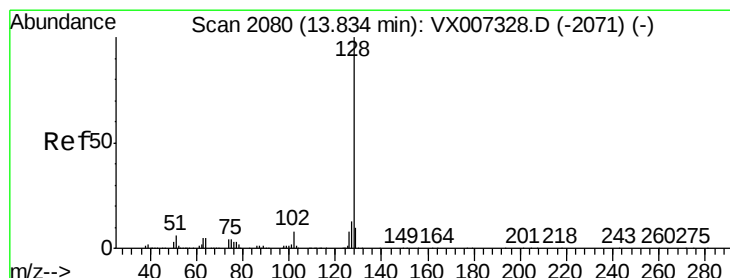
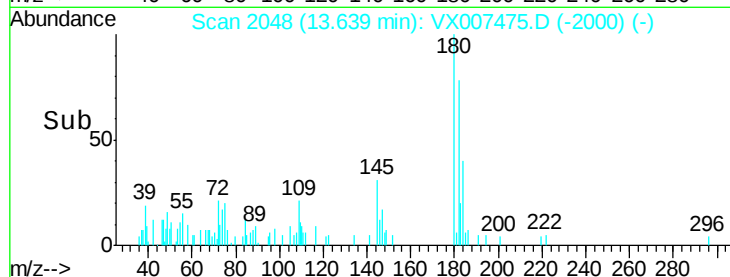
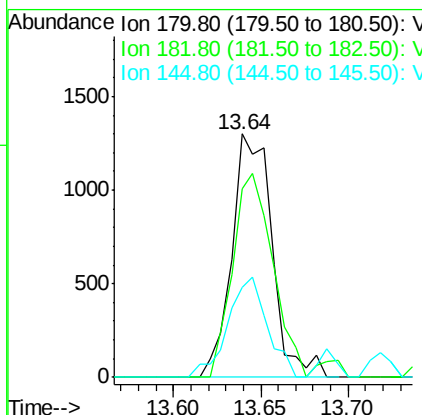
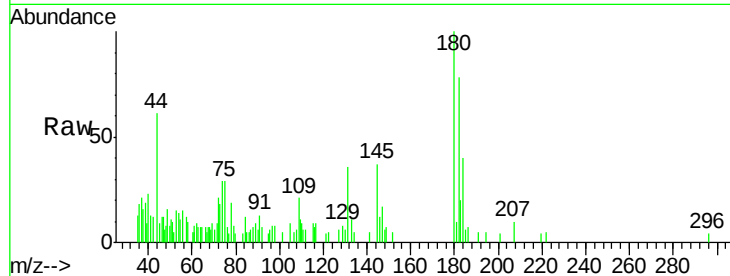




#93
 1,2,4-Trichlorobenzene
 Concen: 0.227 ug/l
 RT: 13.64 min Scan# 2048
 Delta R.T. -0.01 min
 Lab File: VX007475.D
 Acq: 11 Feb 2019 18:26

Instrument :
 MSVOA_X
 ClientSampleId :
 B-19-OW

Tot Ion:180 Resp: 2084
 Ion Ratio Lower Upper
 180 100
 182 83.6 47.8 143.3
 145 40.2 14.1 42.2



#95
 Naphthalene
 Concen: 0.385 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX007475.D
 Acq: 11 Feb 2019 18:26

Tgt Ion:128 Resp: 10329
 Ion Ratio Lower Upper
 128 100
 127 15.1 10.5 15.7
 129 12.8 8.7 13.1

