

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010982.D
 Acq On : 19 Jul 2019 01:05
 Operator : JC/SP
 Sample : VX0718WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 19 03:38:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	38837	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	215960	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	187534	30.00	ug/l	0.00

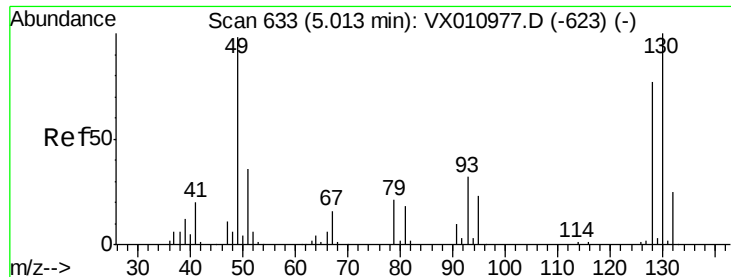
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	77411	29.40	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.00%
60) 4-Bromofluorobenzene	11.13	95	82825	26.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.43%
63) Toluene-d8	8.71	98	251578	30.52	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.73%

Target Compounds

					Ovalue
5) Bromomethane	1.65	94	920	0.710	ug/l 84
6) Chloroethane	1.67	64	543	0.390	ug/l 97
11) Methyl Iodide	2.52	142	693	0.238	ug/l 96
13) Acrolein	2.20	56	90	0.246	ug/l 100
14) Acrylonitrile	3.14	53	387	0.324	ug/l 80
15) Acetone	2.44	58	425	1.278	ug/l 70
16) Carbon Disulfide	2.57	76	2733	0.490	ug/l # 91
18) Methylene Chloride	2.86	84	740	0.306	ug/l # 72
23) tert-Butyl Alcohol	3.01	59	6482	10.398	ug/l # 100
38) Methylcyclohexane	7.46	83	970	0.253	ug/l # 53
45) 1,4-Dioxane	7.78	88	49	0.734	ug/l # 1
51) Ethyl methacrylate	8.72	69	911	0.240	ug/l 94
55) 2-Chloroethyl vinyl ether	8.32	63	788	0.491	ug/l # 78
56) Bromoform	11.13	173	818	0.415	ug/l # 1
67) m/p-Xylenes	10.36	106	1379	0.321	ug/l 99
77) t-1,4-Dichloro-2-butene	11.13	75	41519	41.761	ug/l # 6
89) 1,2,4-Trichlorobenzene	13.65	180	743	0.206	ug/l 92

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 633

Delta R.T. 0.00 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

Instrument :

MSVOA_X

ClientSampleId :

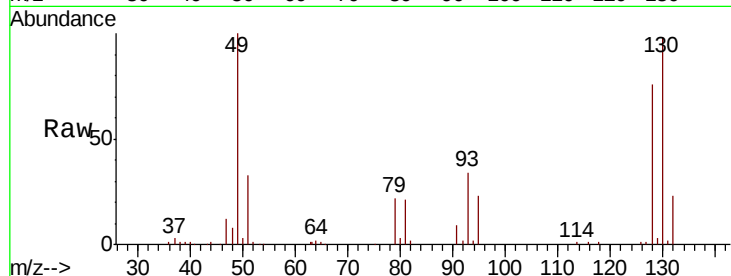
Tot Ion:128 Resp: 38837

Ion Ratio Lower Upper

128 100

49 132.8 0.0 343.5

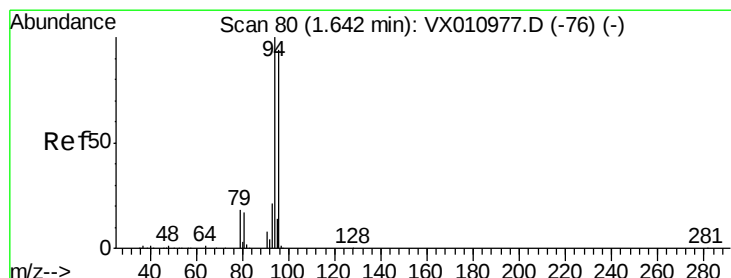
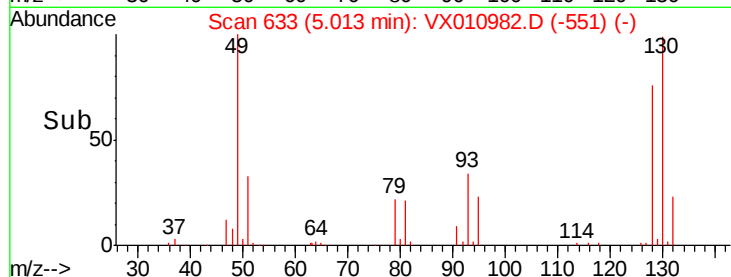
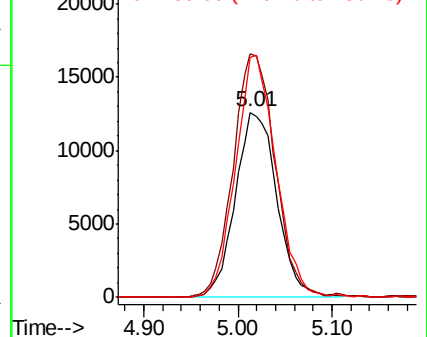
130 127.0 0.0 324.7



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



#5

Bromomethane

Concen: 0.710 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010982.D

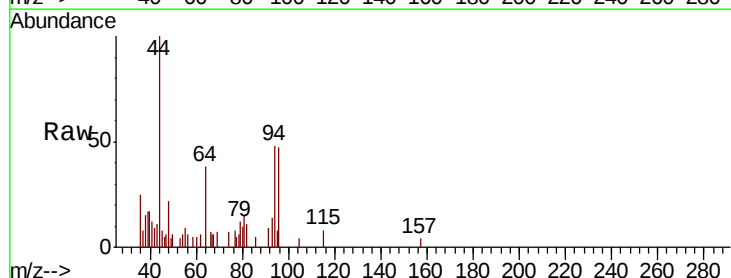
Acq: 19 Jul 2019 01:05

Tgt Ion: 94 Resp: 920

Ion Ratio Lower Upper

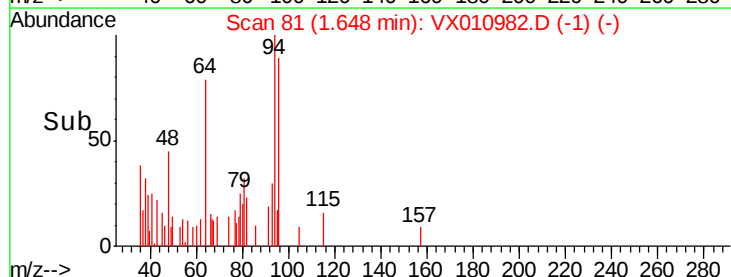
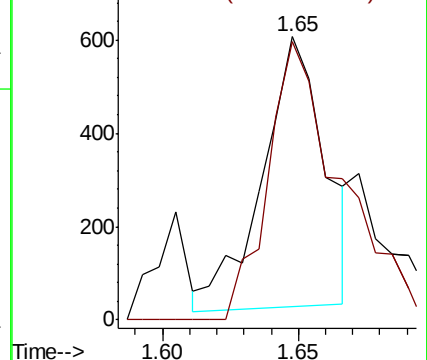
94 100

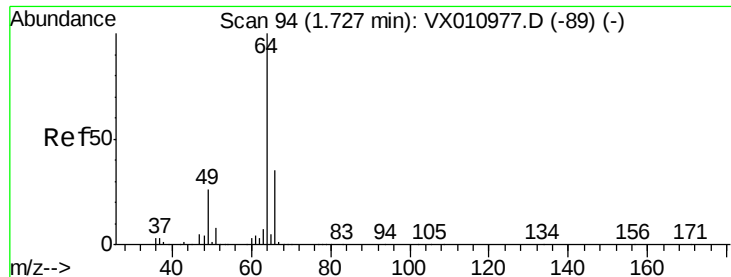
96 109.5 75.4 113.2



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#6

Chloroethane

Concen: 0.390 ug/l

RT: 1.67 min Scan# 84

Delta R.T. -0.06 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

Instrument :

MSVOA_X

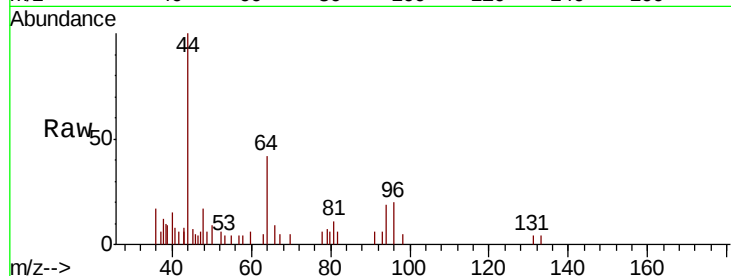
ClientSampleId :

Tot Ion: 64 Resp: 543

Ion Ratio Lower Upper

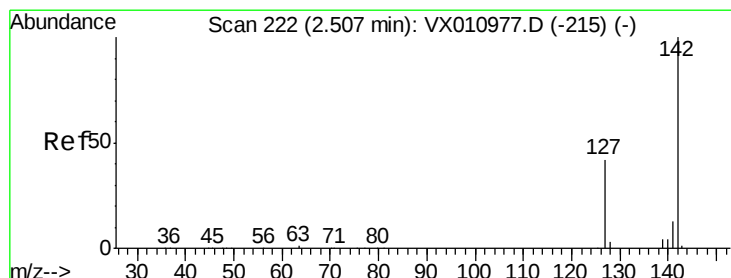
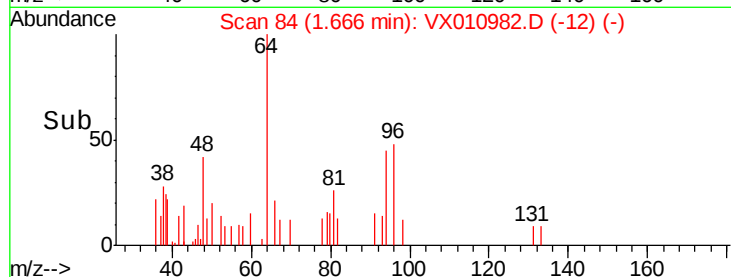
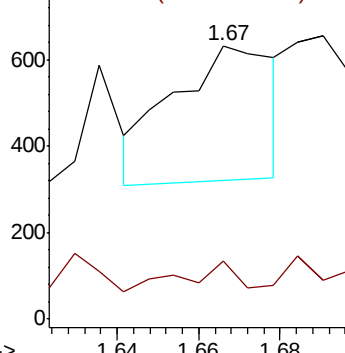
64 100

66 33.2 28.1 42.1



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#11

Methyl Iodide

Concen: 0.238 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

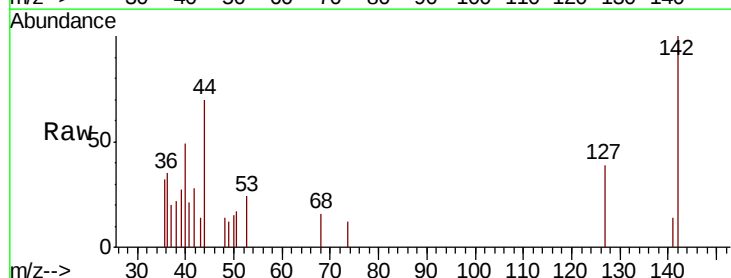
Tgt Ion: 142 Resp: 693

Ion Ratio Lower Upper

142 100

127 38.5 20.7 62.1

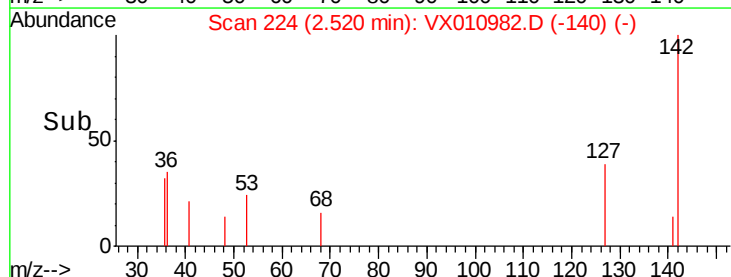
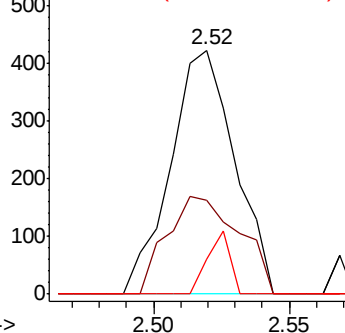
141 14.4 6.7 20.0

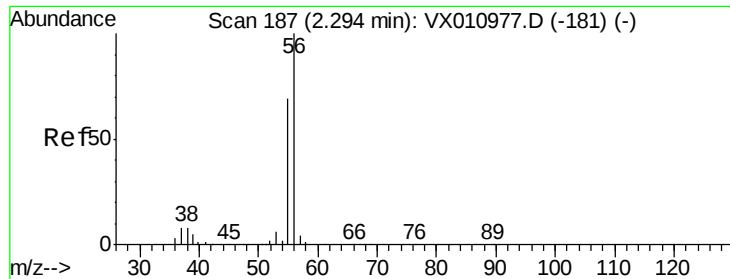


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#13

Acrolein

Concen: 0.246 ug/l

RT: 2.20 min Scan# 172

Delta R.T. -0.09 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

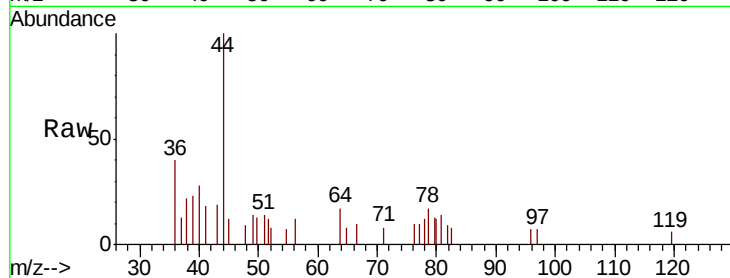
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 90

Ion Ratio Lower Upper

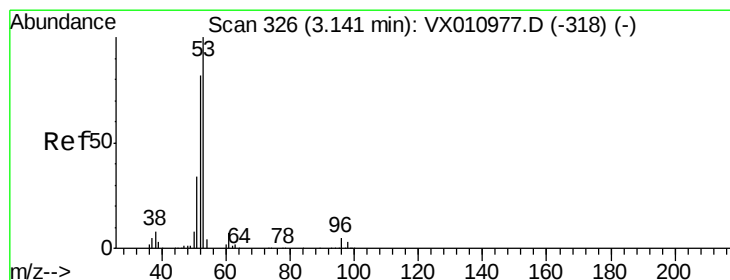
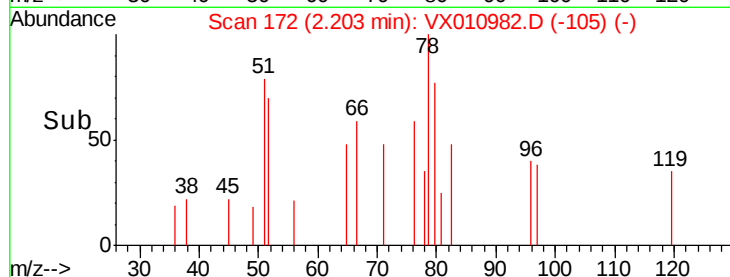
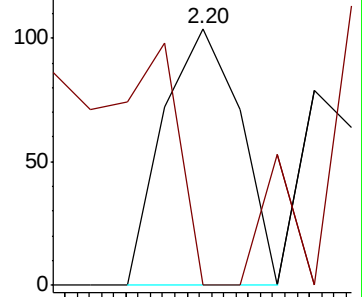
56 100

55 70.0 56.1 84.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Acrylonitrile

Concen: 0.324 ug/l

RT: 3.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

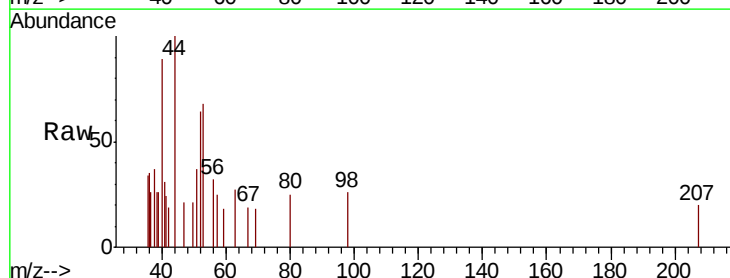
Tgt Ion: 53 Resp: 387

Ion Ratio Lower Upper

53 100

52 103.9 41.1 123.4

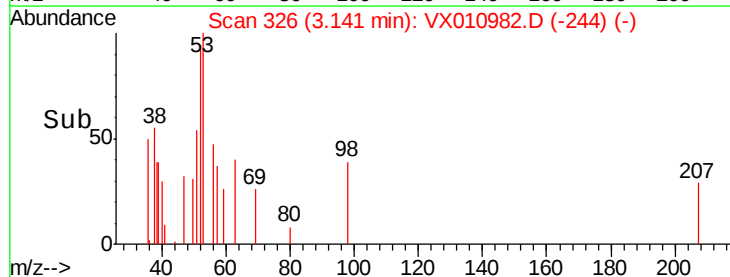
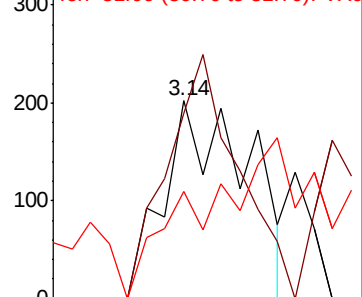
51 29.7 17.8 53.3

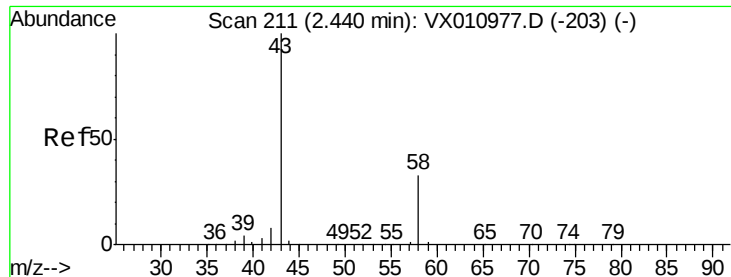


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#15

Acetone

Concen: 1.278 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

Instrument :

MSVOA_X

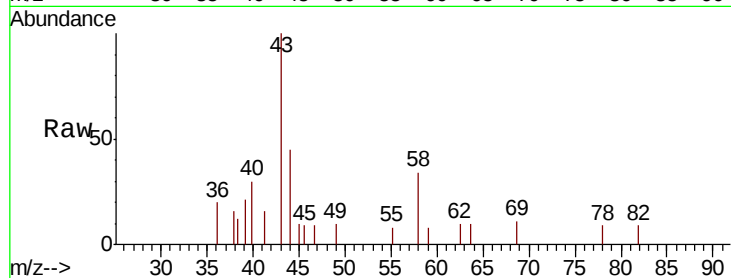
ClientSampleId :

Tot Ion: 58 Resp: 425

Ion Ratio Lower Upper

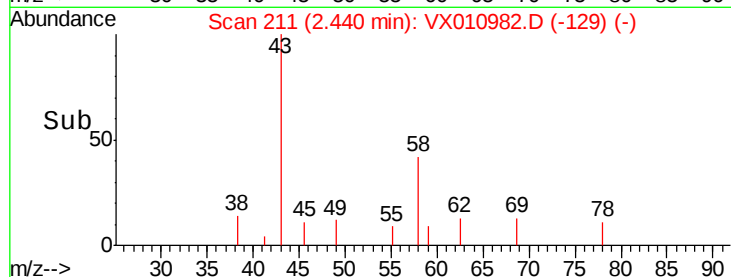
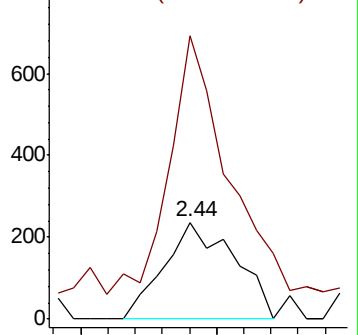
58 100

43 245.6 243.8 365.6

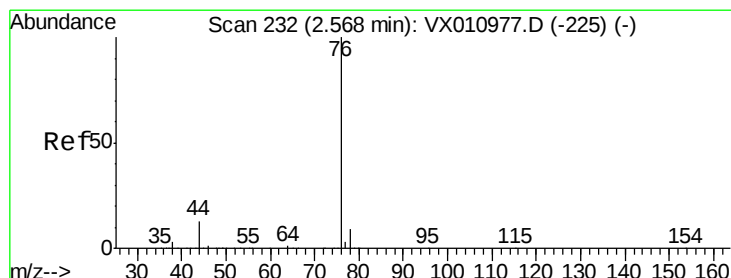


Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



Time-->



#16

Carbon Disulfide

Concen: 0.490 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX010982.D

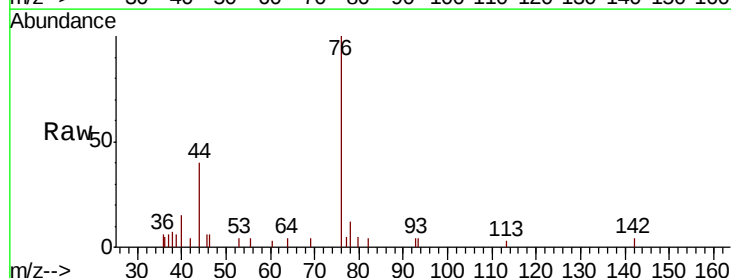
Acq: 19 Jul 2019 01:05

Tgt Ion: 76 Resp: 2733

Ion Ratio Lower Upper

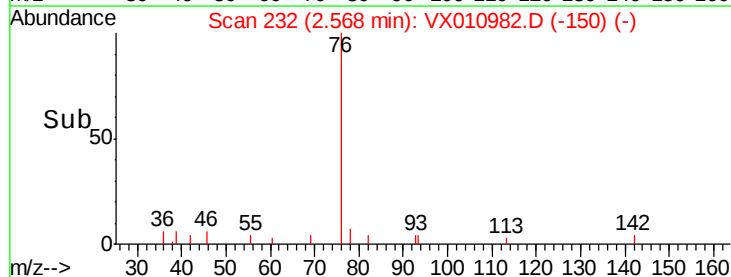
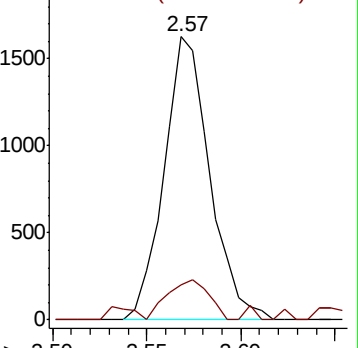
76 100

78 12.4 7.3 10.9#

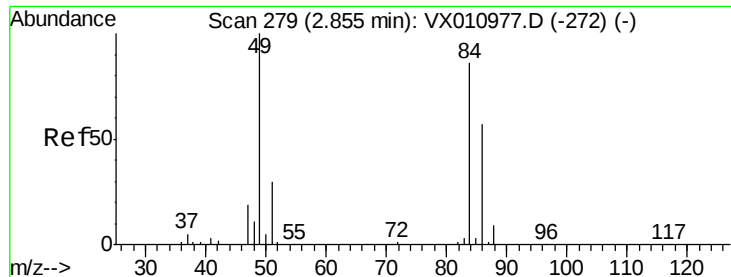


Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0



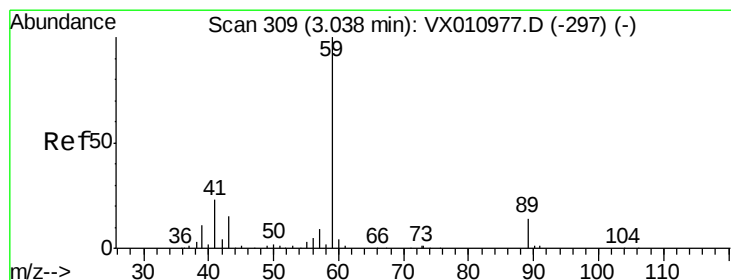
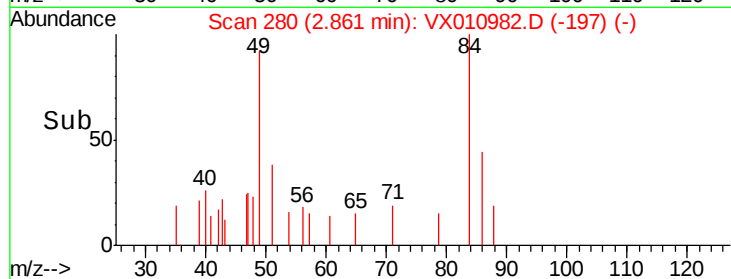
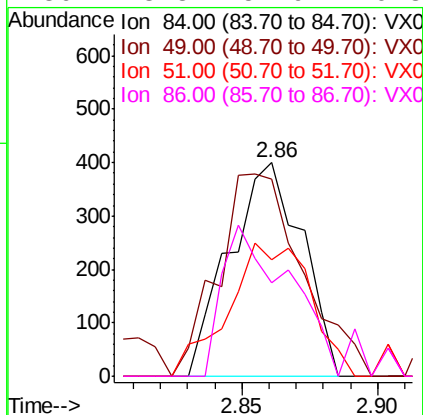
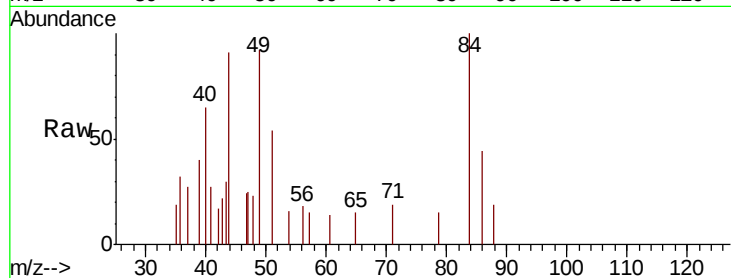
Time-->



#18
Methylene Chloride
Concen: 0.306 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010982.D
Acq: 19 Jul 2019 01:05

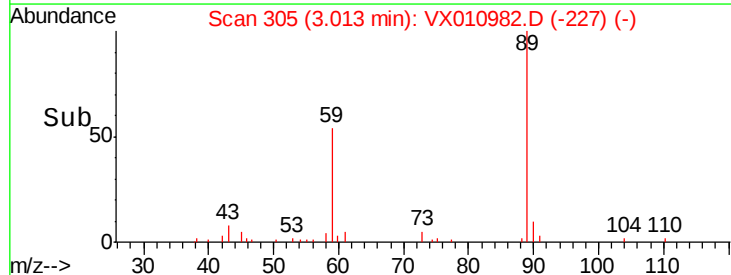
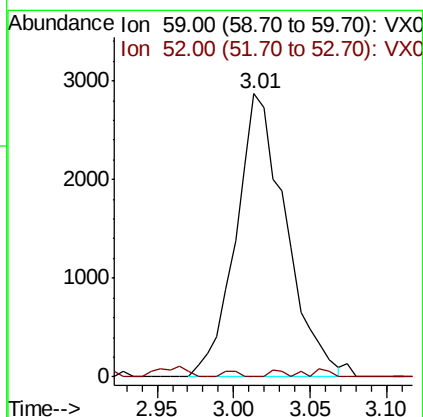
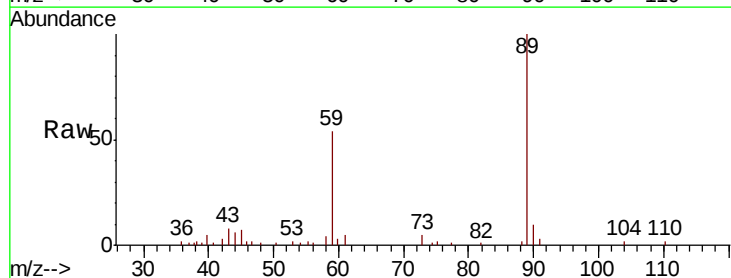
Instrument :
MSVOA_X
ClientSampled :

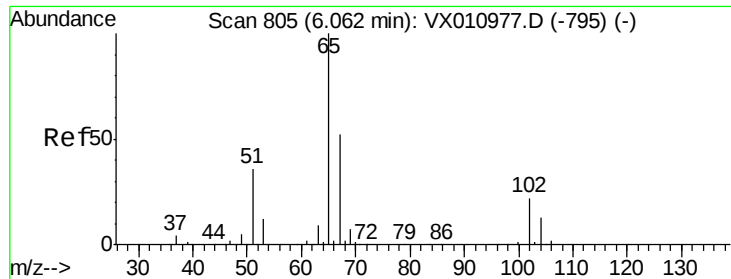
Tot Ion: 84 Resp: 740
Ion Ratio Lower Upper
84 100
49 79.0 93.2 139.8#
51 41.5 28.6 42.8
86 43.8 52.9 79.3#



#23
tert-Butyl Alcohol
Concen: 10.398 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX010982.D
Acq: 19 Jul 2019 01:05

Tgt Ion: 59 Resp: 6482
Ion Ratio Lower Upper
59 100
52 0.6 0.2 0.4#





#27

1,2-Dichloroethane-d4

Concen: 29.401 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

Instrument :

MSVOA_X

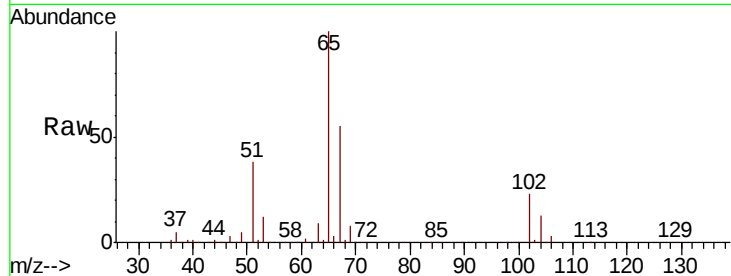
ClientSampleId :

Tot Ion: 65 Resp: 77411

Ion Ratio Lower Upper

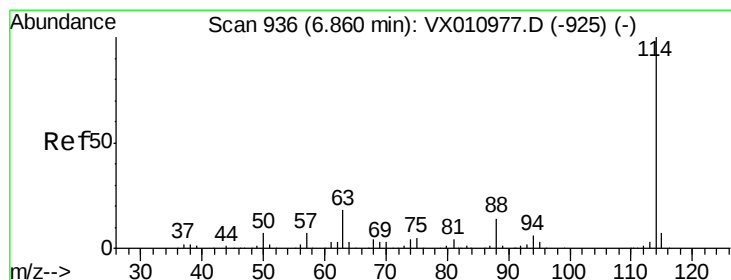
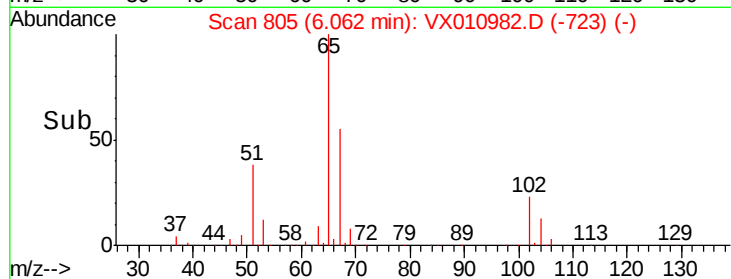
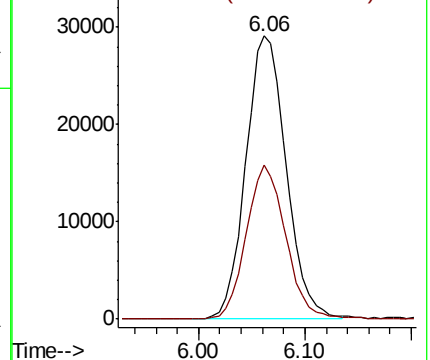
65 100

67 53.3 41.7 62.5



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: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

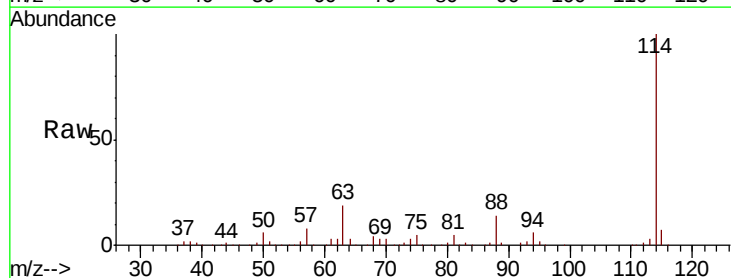
Tgt Ion: 114 Resp: 215960

Ion Ratio Lower Upper

114 100

63 18.7 14.6 22.0

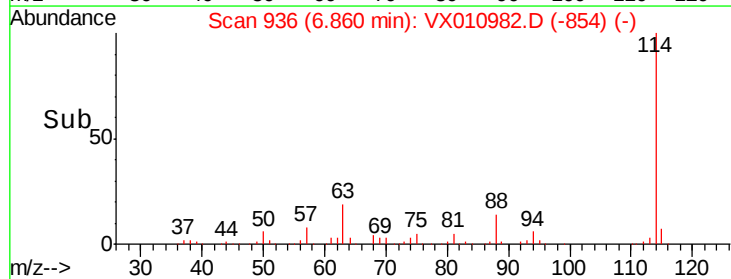
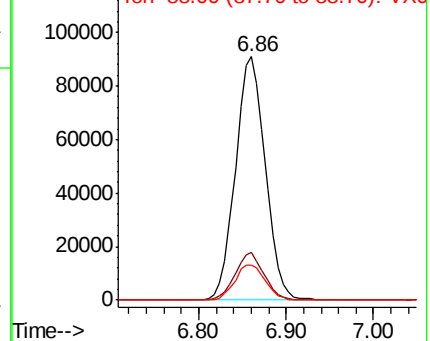
88 14.8 11.8 17.8

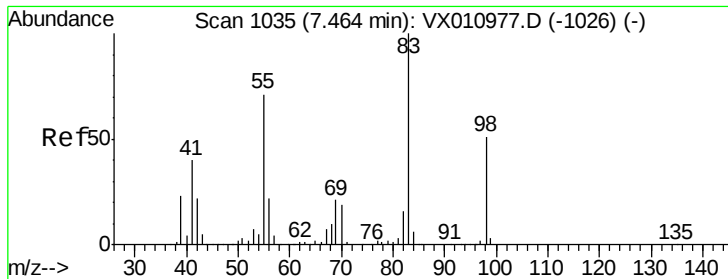


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

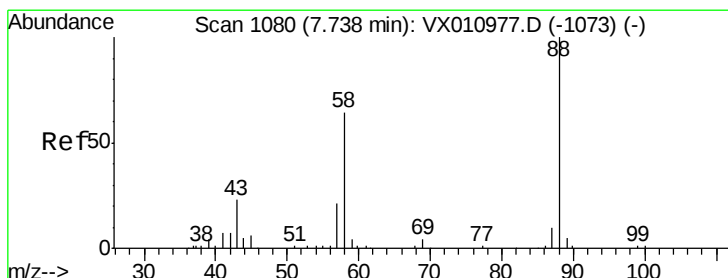
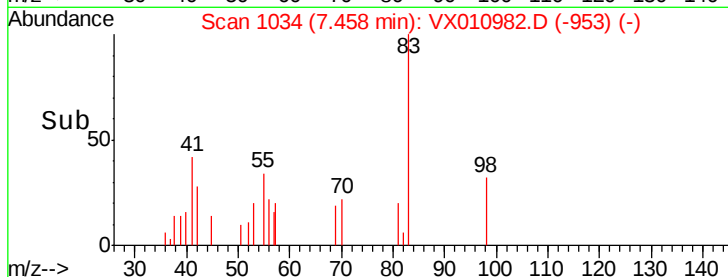
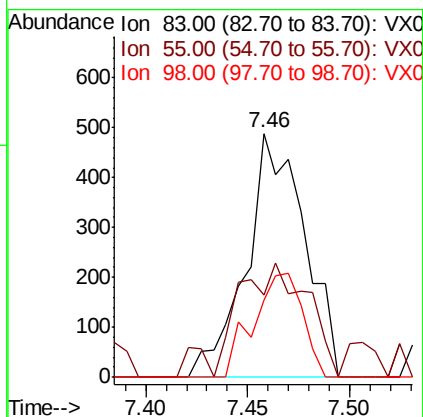
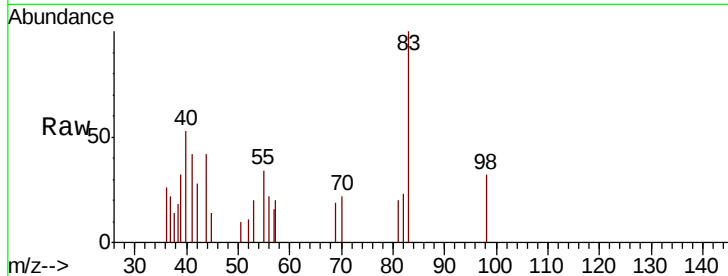




#38
Methvlcvclohexane
Concen: 0.253 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. -0.01 min
Lab File: VX010982.D
Acq: 19 Jul 2019 01:05

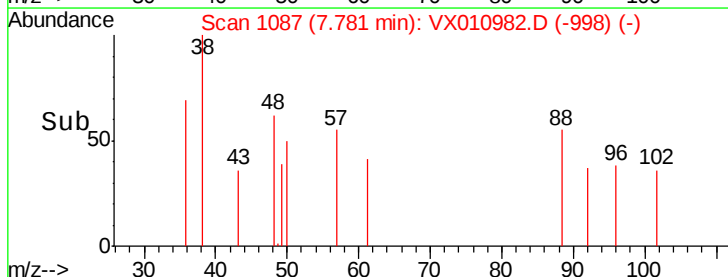
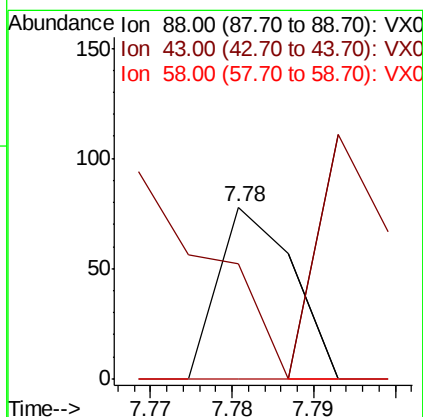
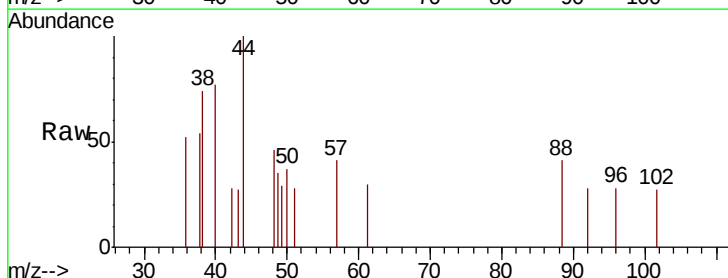
Instrument :
MSVOA_X
ClientSampleId :

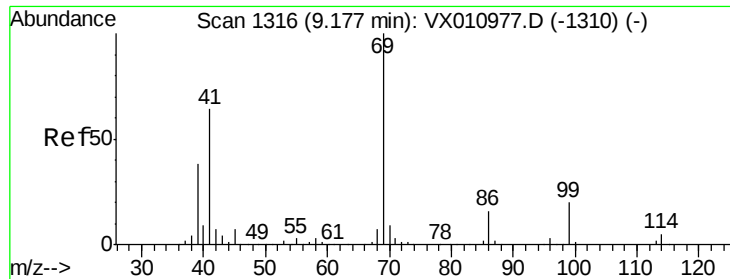
Tot Ion: 83 Resp: 970
Ion Ratio Lower Upper
83 100
55 14.8 35.3 105.9#
98 36.0 24.0 72.0



#45
1,4-Dioxane
Concen: 0.734 ug/l
RT: 7.78 min Scan# 1087
Delta R.T. 0.04 min
Lab File: VX010982.D
Acq: 19 Jul 2019 01:05

Tgt Ion: 88 Resp: 49
Ion Ratio Lower Upper
88 100
43 183.7 21.6 32.4#
58 0.0 52.2 78.2#





#51

Ethyl methacrylate

Concen: 0.240 ug/l

RT: 8.72 min Scan# 1241

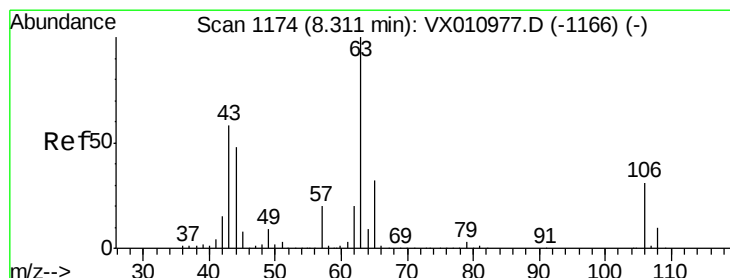
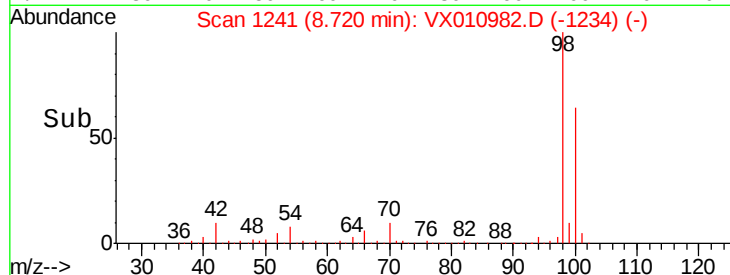
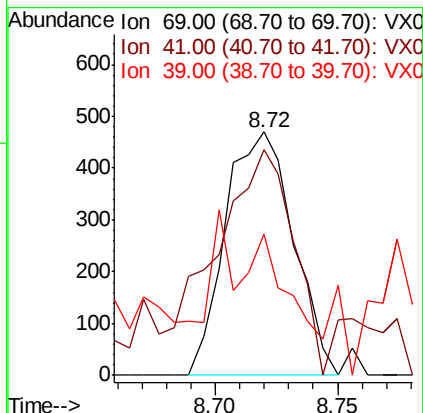
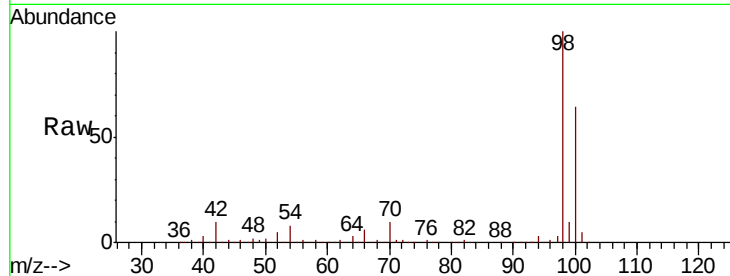
Delta R.T. -0.46 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	69	Resp:	911
Ion	Ratio	Lower	Upper
69	100		
41	69.6	32.1	96.3
39	35.7	19.1	57.3



#55

2-Chloroethyl vinyl ether

Concen: 0.491 ug/l

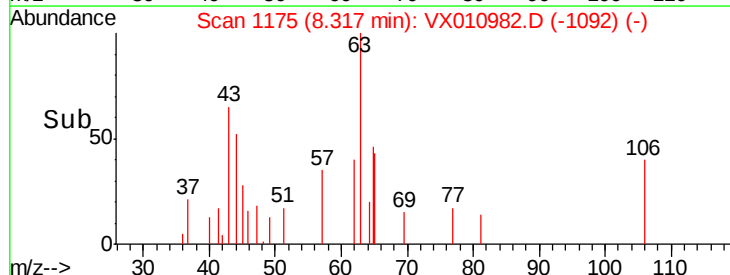
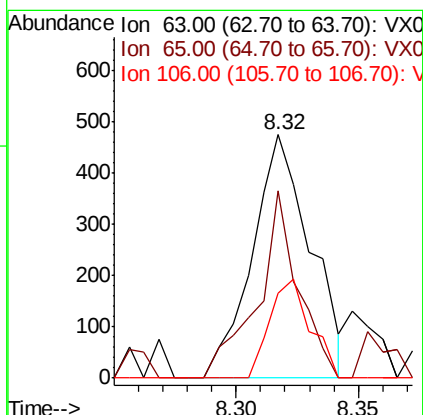
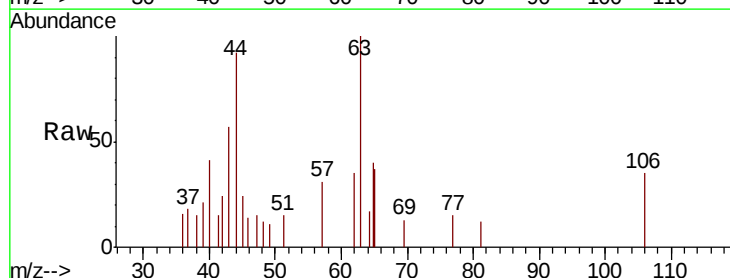
RT: 8.32 min Scan# 1175

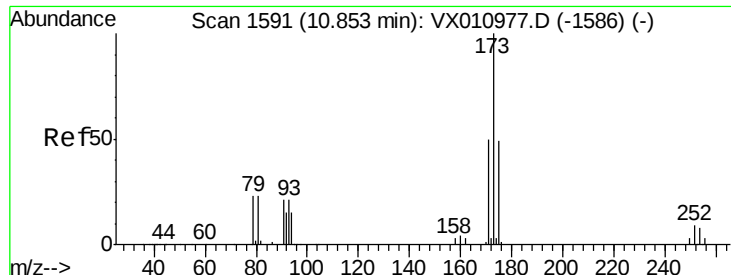
Delta R.T. 0.01 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

Tgt Ion:	63	Resp:	788
Ion	Ratio	Lower	Upper
63	100		
65	53.9	25.7	38.5#
106	28.3	24.8	37.2





#56

Bromoform

Concen: 0.415 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.28 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

Instrument :

MSVOA_X

ClientSampleId :

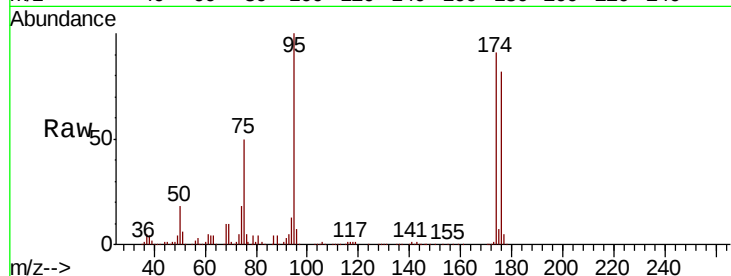
Tot Ion:173 Resp: 818

Ion Ratio Lower Upper

173 100

175 711.9 39.0 58.6#

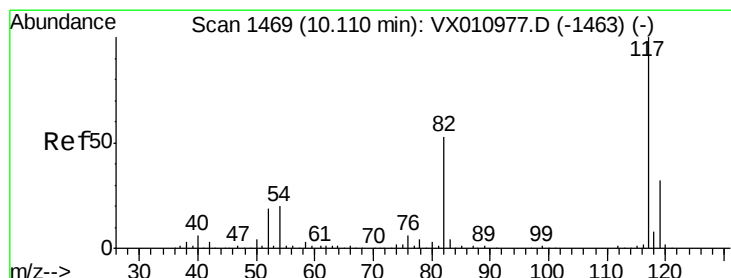
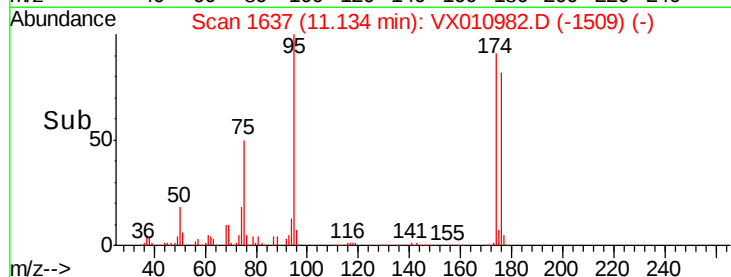
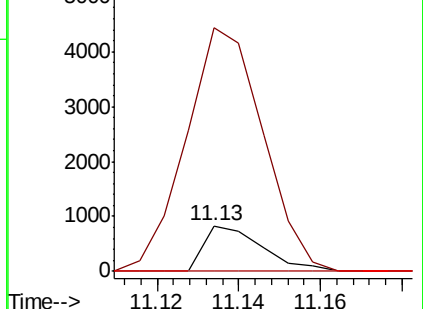
254 0.0 7.9 11.9#



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: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX010982.D

Acq: 19 Jul 2019 01:05

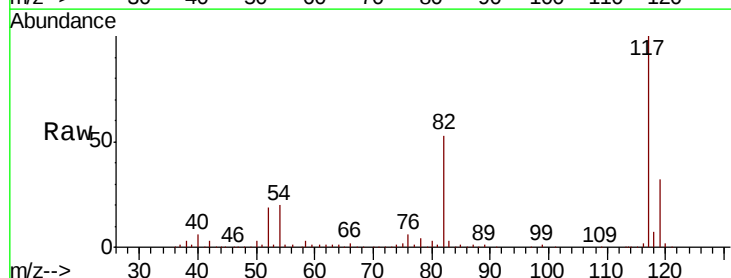
Tgt Ion:117 Resp: 187534

Ion Ratio Lower Upper

117 100

82 51.7 41.6 62.4

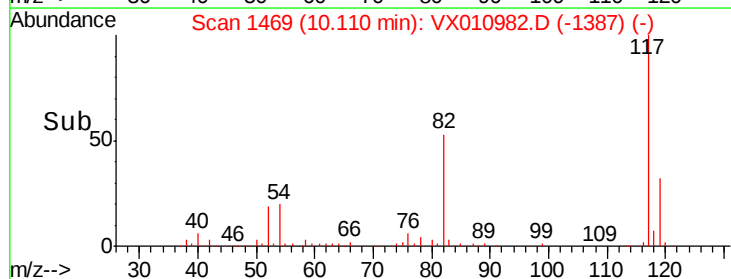
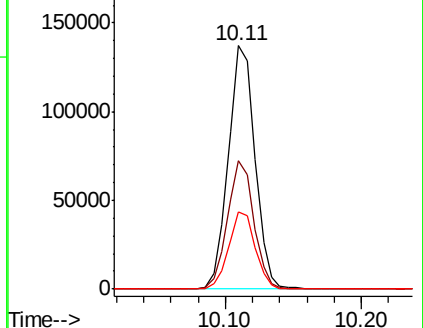
119 31.6 26.0 39.0

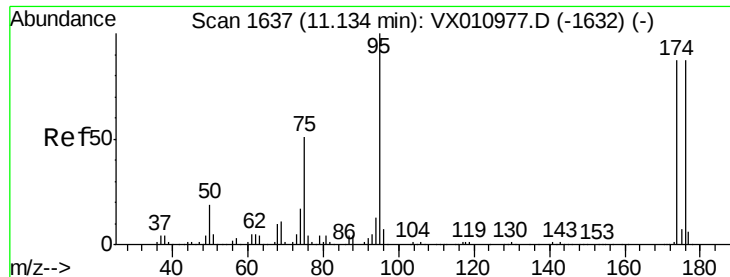


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

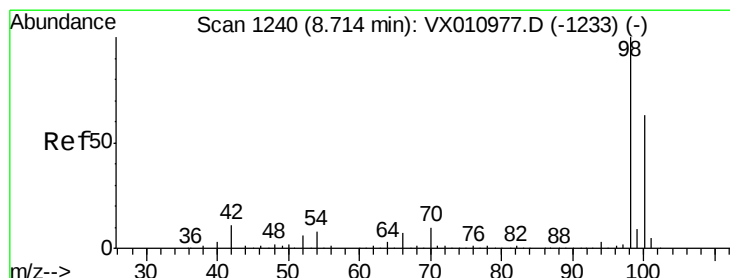
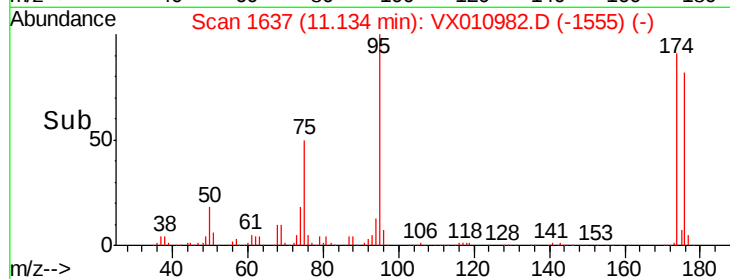
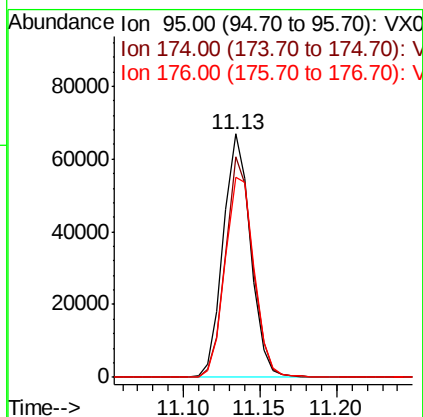
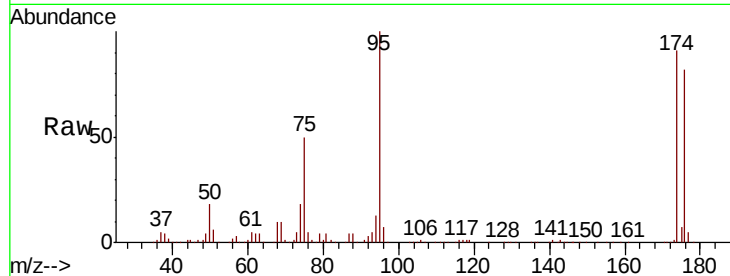




#60
 4-Bromofluorobenzene
 Concen: 26.834 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX010982.D
 Acq: 19 Jul 2019 01:05

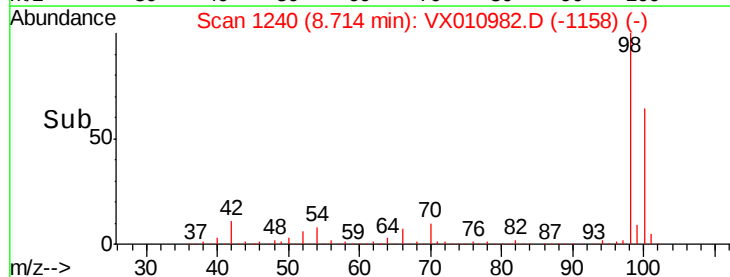
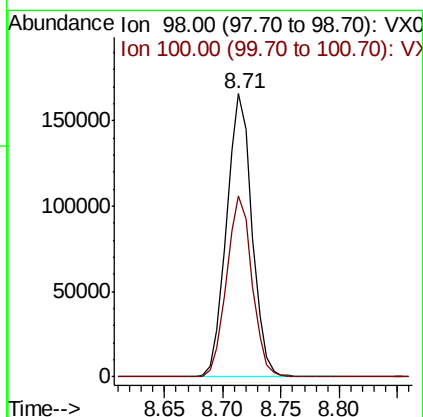
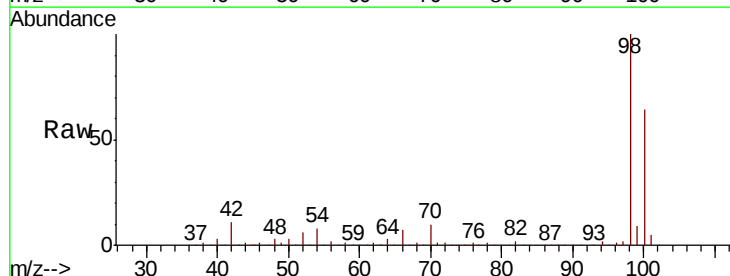
Instrument :
 MSVOA_X
 ClientSampleId :

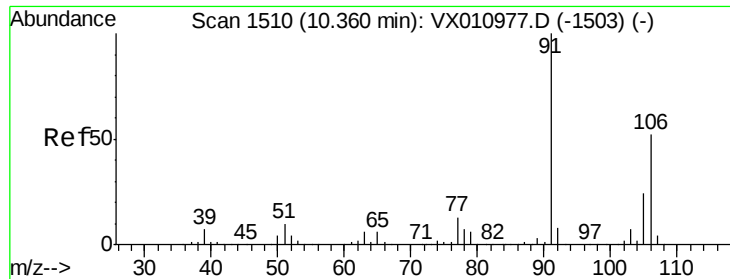
Tot Ion: 95 Resp: 82825
 Ion Ratio Lower Upper
 95 100
 174 90.2 73.3 109.9
 176 87.8 71.2 106.8



#63
 Toluene-d8
 Concen: 30.521 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX010982.D
 Acq: 19 Jul 2019 01:05

Tgt Ion: 98 Resp: 251578
 Ion Ratio Lower Upper
 98 100
 100 64.2 51.4 77.0

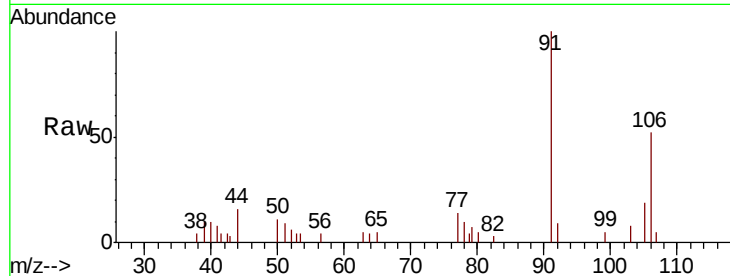




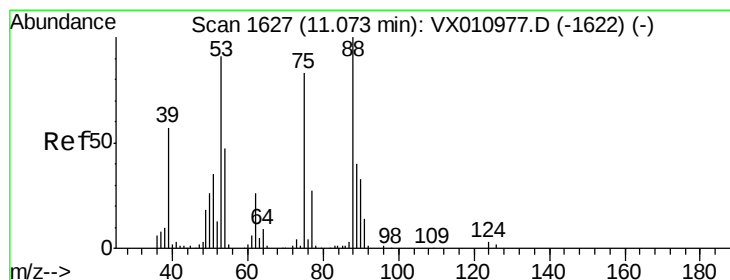
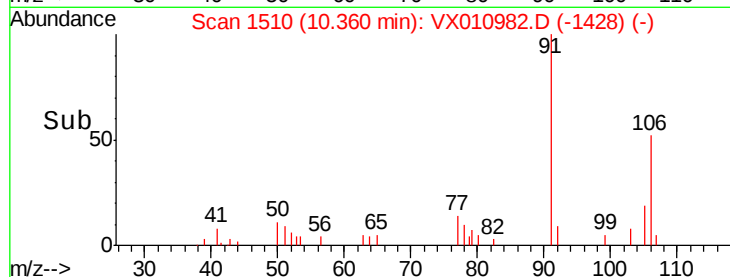
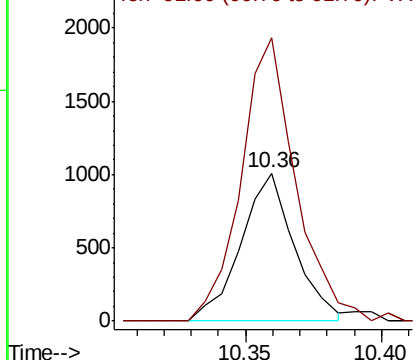
#67
m/p-Xvlenes
Concen: 0.321 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX010982.D
Acq: 19 Jul 2019 01:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:106 Resp: 1379
Ion Ratio Lower Upper
106 100
91 194.4 156.6 235.0

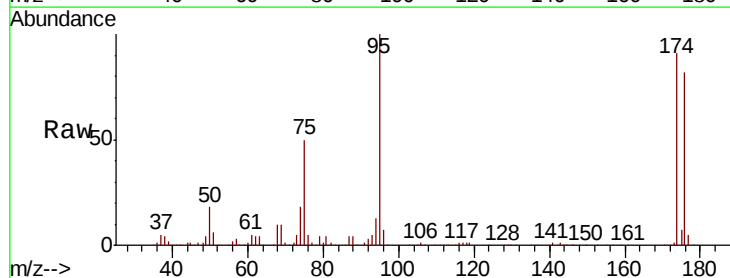


Abundance Ion 106.00 (105.70 to 106.70): VX0
Ion 91.00 (90.70 to 91.70): VX0

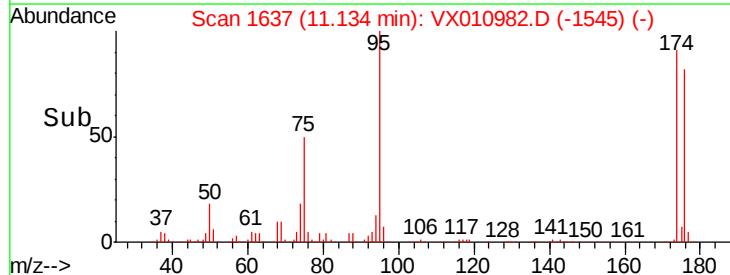
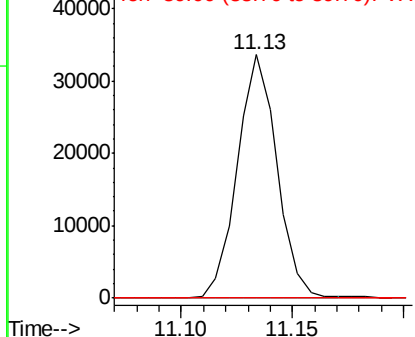


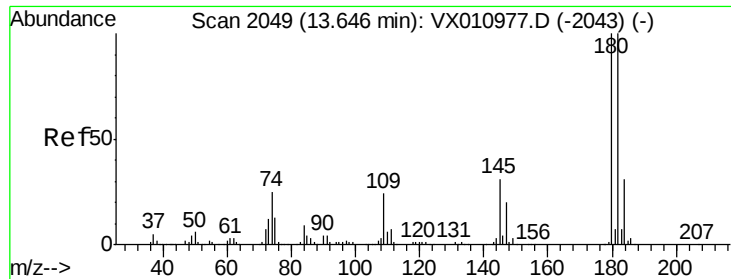
#77
t-1,4-Dichloro-2-butene
Concen: 41.761 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010982.D
Acq: 19 Jul 2019 01:05

Tgt Ion: 75 Resp: 41519
Ion Ratio Lower Upper
75 100
53 0.0 54.8 164.3#
89 0.2 24.6 73.6#



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





#89
 1,2,4-Trichlorobenzene
 Concen: 0.206 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX010982.D
 Acq: 19 Jul 2019 01:05

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:180 Resp: 743
 Ion Ratio Lower Upper
 180 100
 182 87.6 77.6 116.4
 145 27.5 23.8 35.6

