

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072919\
 Data File : VX011144.D
 Acq On : 29 Jul 2019 14:38
 Operator : JC/SP
 Sample : K4018-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0413

Quant Time: Jul 30 05:05:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	185321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	300723	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	282099	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	130786	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	102489	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	
35) Dibromofluoromethane	5.50	113	94160	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	8.71	98	361621	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	11.13	95	127295	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	

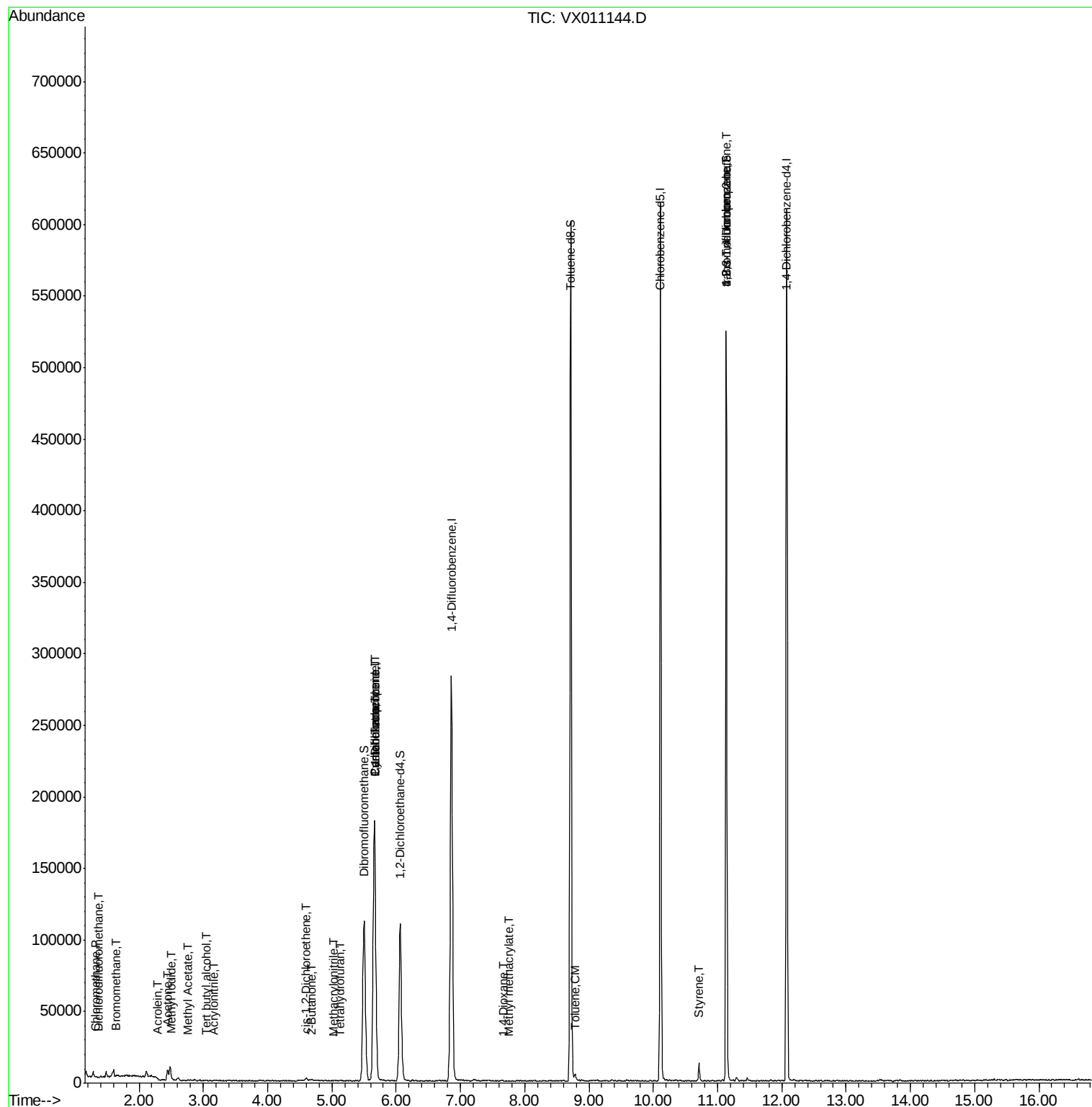
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.36	85	46	0.569	ug/l #	43
3) Chloromethane	1.33	50	426	0.250	ug/l #	73
5) Bromomethane	1.65	94	381	0.389	ug/l #	51
10) Methyl Iodide	2.51	142	451	0.205	ug/l #	91
11) Tert butyl alcohol	3.04	59	347	0.756	ug/l #	89
13) Acrolein	2.29	56	162	0.611	ug/l #	1
15) Acrylonitrile	3.16	53	236	0.254	ug/l #	37
16) Acetone	2.45	43	7794	8.753	ug/l	98
18) Methyl Acetate	2.77	43	556	0.274	ug/l #	48
25) 2-Butanone	4.69	43	1664	1.302	ug/l #	56
27) cis-1,2-Dichloroethene	4.59	96	850	0.419	ug/l	85
29) Tetrahydrofuran	5.13	42	226	0.279	ug/l #	29
31) Cyclohexane	5.66	56	3465	1.294	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	12234	4.953	ug/l #	50
38) Carbon Tetrachloride	5.66	117	17295	6.719	ug/l #	17
41) Methacrylonitrile	5.03	41	338	0.235	ug/l #	30
48) Methyl methacrylate	7.76	41	414	0.204	ug/l #	23
49) 1,4-Dioxane	7.68	88	39	0.688	ug/l #	1
52) Toluene	8.79	92	1135	0.228	ug/l	89
70) Styrene	10.71	104	5016	0.815	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	63706	26.993	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	63706	66.924	ug/l #	11

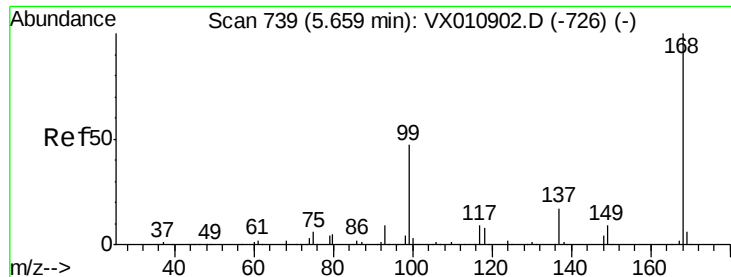
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072919\
Data File : VX011144.D
Acq On : 29 Jul 2019 14:38
Operator : JC/SP
Sample : K4018-03
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0413

Quant Time: Jul 30 05:05:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

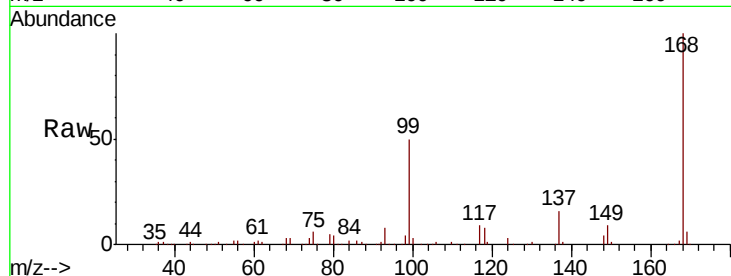
SU19-MSW0413

Tot Ion:168 Resp: 185321

Ion Ratio Lower Upper

168 100

99 50.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

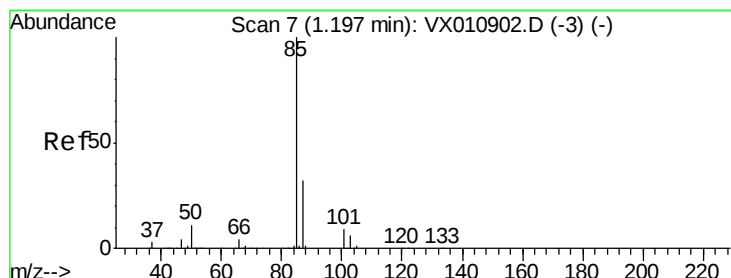
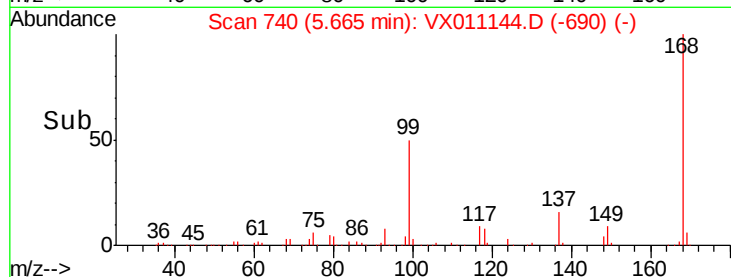
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.569 ug/l

RT: 1.36 min Scan# 33

Delta R.T. 0.16 min

Lab File: VX011144.D

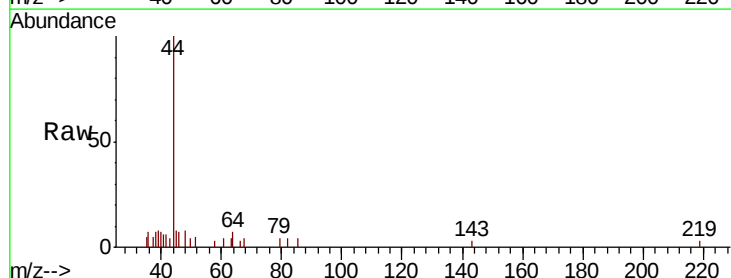
Acq: 29 Jul 2019 14:38

Tgt Ion: 85 Resp: 46

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.36

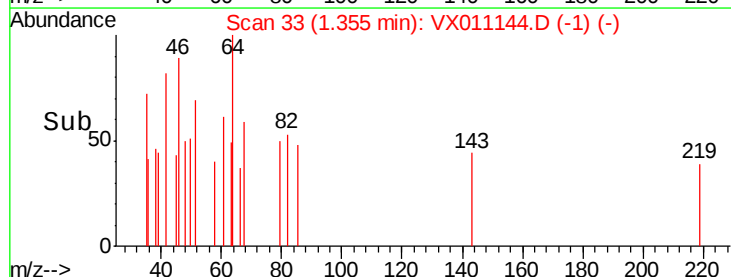
60

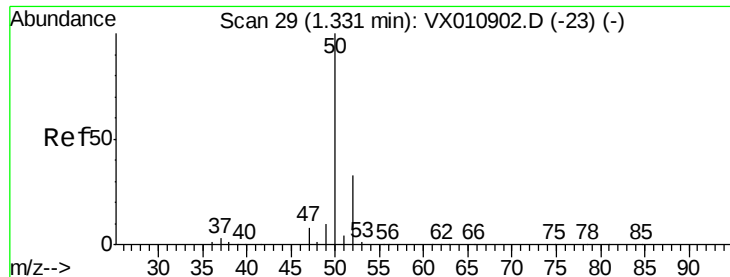
40

20

0

Time--> 1.34 1.36





#3

Chloromethane

Concen: 0.250 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

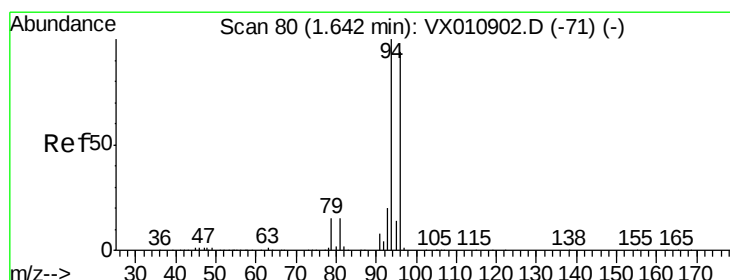
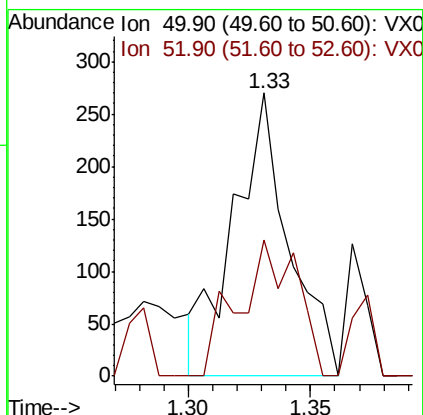
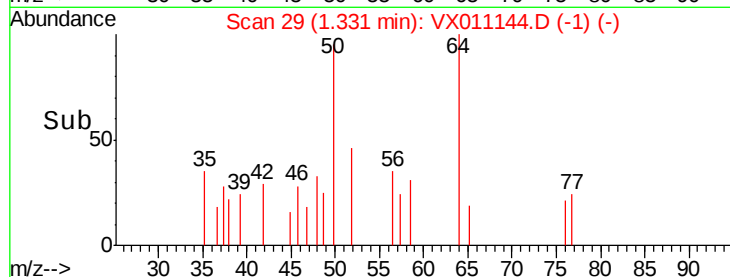
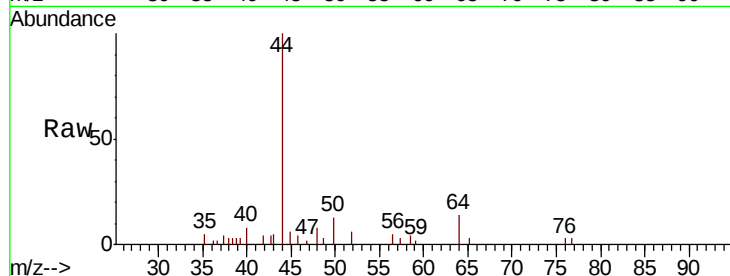
SU19-MSW0413

Tot Ion: 50 Resp: 426

Ion Ratio Lower Upper

50 100

52 48.1 26.4 39.6#



#5

Bromomethane

Concen: 0.389 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011144.D

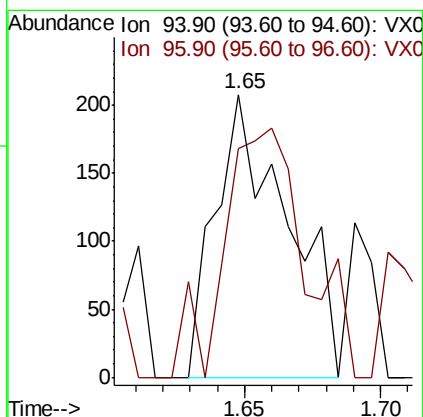
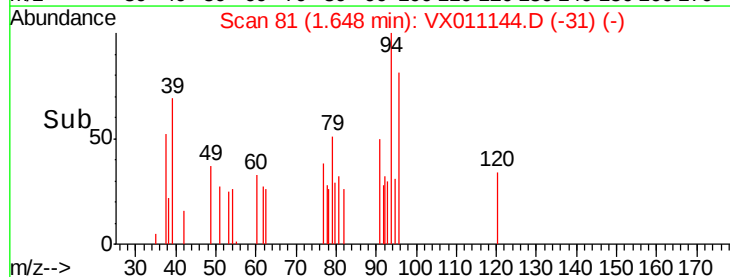
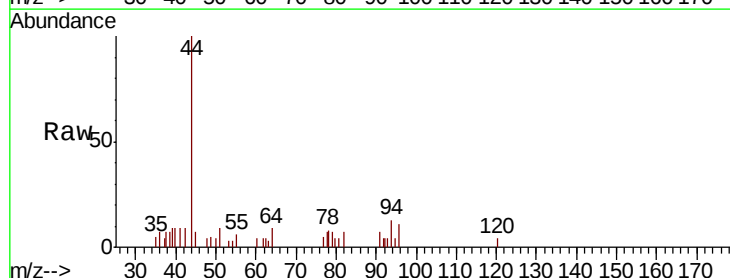
Acq: 29 Jul 2019 14:38

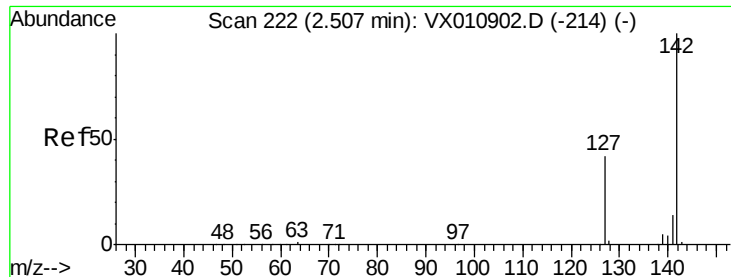
Tgt Ion: 94 Resp: 381

Ion Ratio Lower Upper

94 100

96 47.1 75.6 113.4#

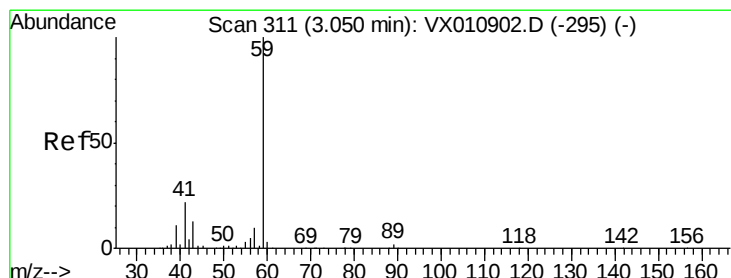
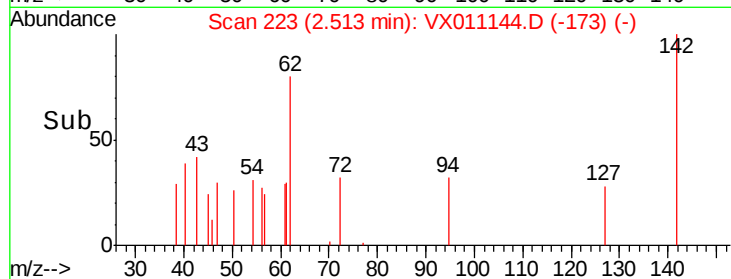
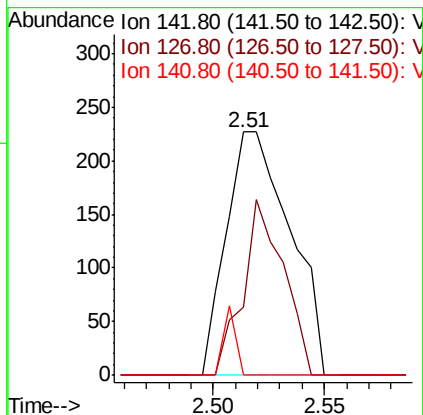
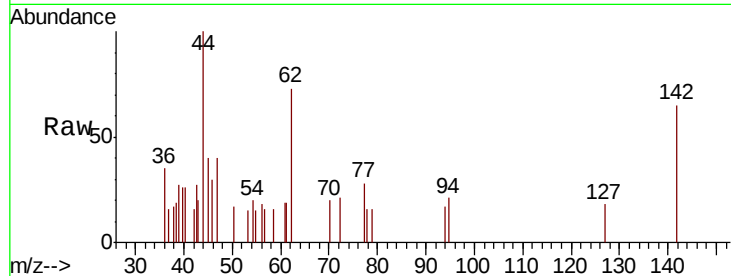




#10
Methvl Iodide
Concen: 0.205 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX011144.D
Acq: 29 Jul 2019 14:38

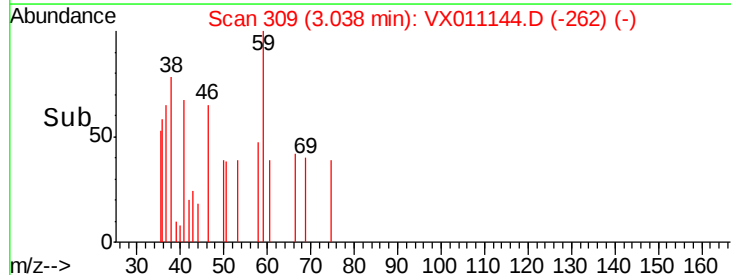
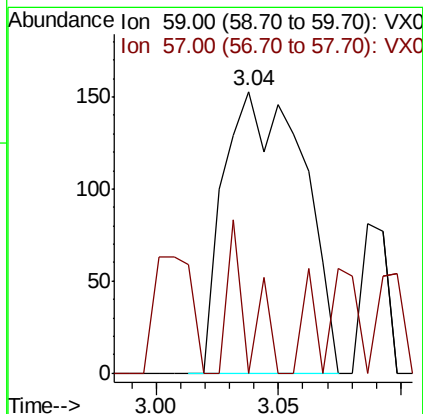
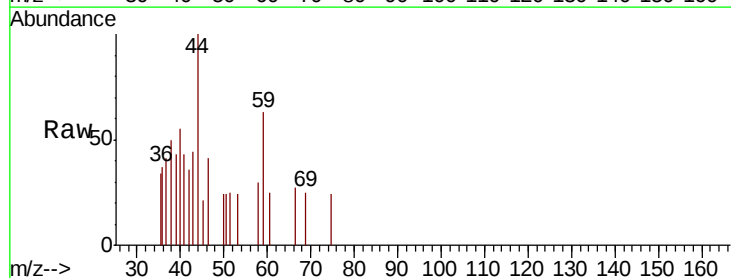
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0413

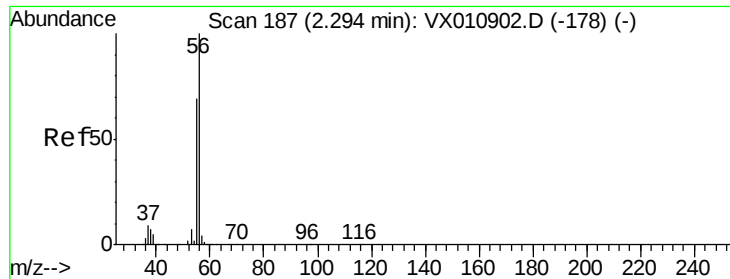
Tot Ion:142 Resp: 451
Ion Ratio Lower Upper
142 100
127 45.9 34.2 51.4
141 5.3 11.7 17.5#



#11
Tert butyl alcohol
Concen: 0.756 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX011144.D
Acq: 29 Jul 2019 14:38

Tgt Ion: 59 Resp: 347
Ion Ratio Lower Upper
59 100
57 14.1 7.9 11.9#





#13

Acrolein

Concen: 0.611 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

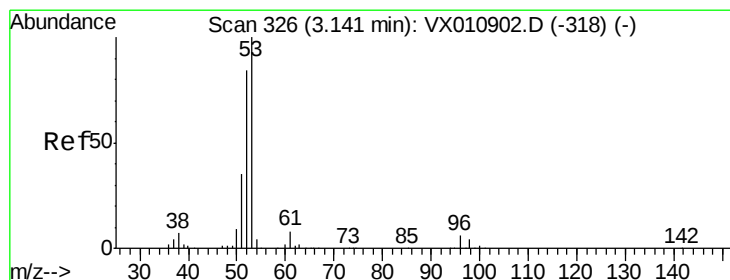
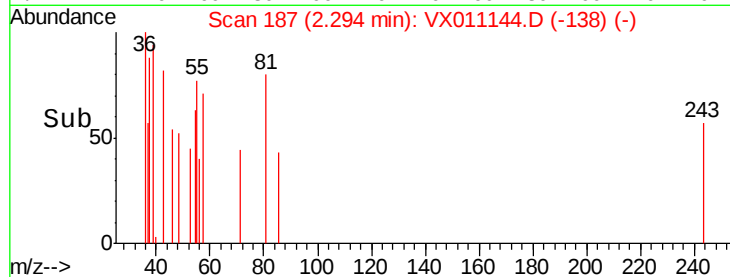
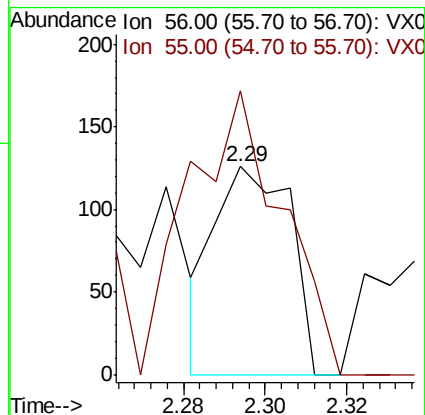
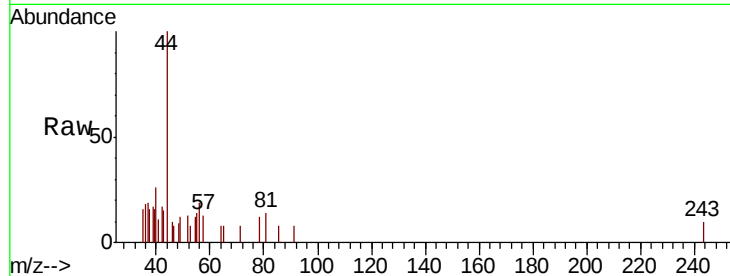
SU19-MSW0413

Tot Ion: 56 Resp: 162

Ion Ratio Lower Upper

56 100

55 170.4 55.9 83.9#



#15

Acrylonitrile

Concen: 0.254 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.02 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

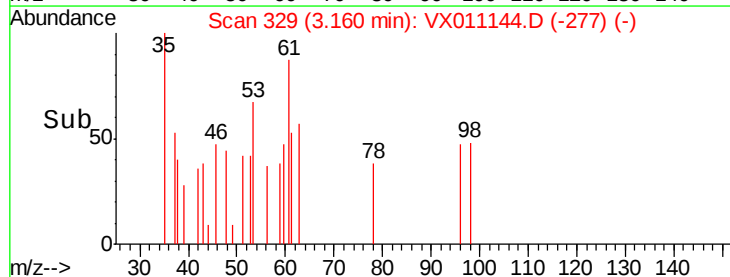
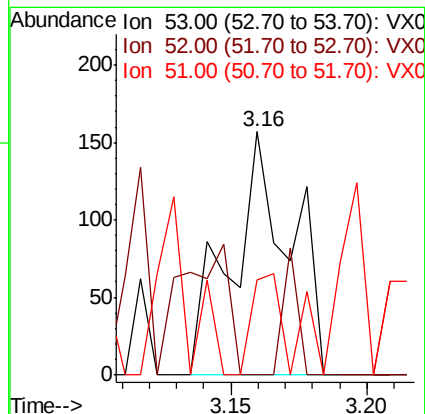
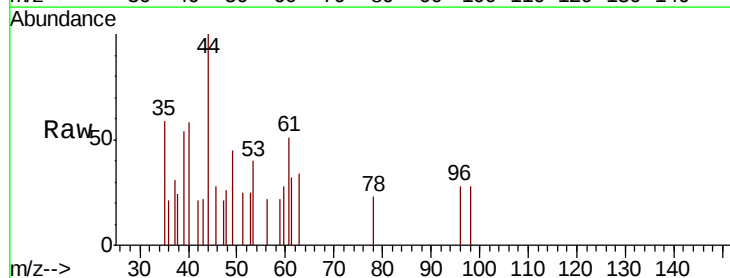
Tgt Ion: 53 Resp: 236

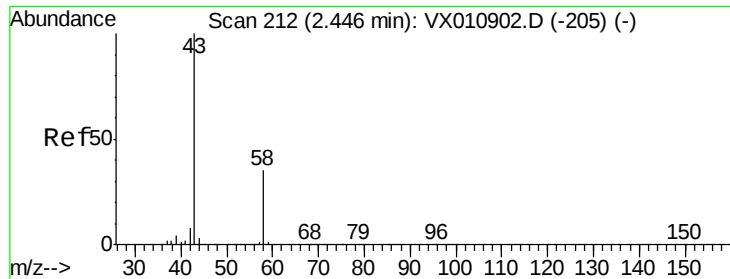
Ion Ratio Lower Upper

53 100

52 12.7 66.5 99.7#

51 19.5 28.2 42.4#





#16

Acetone

Concen: 8.753 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

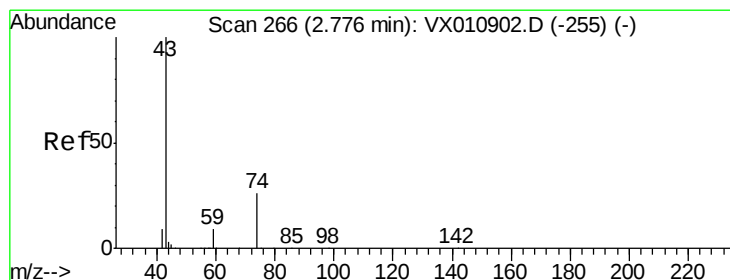
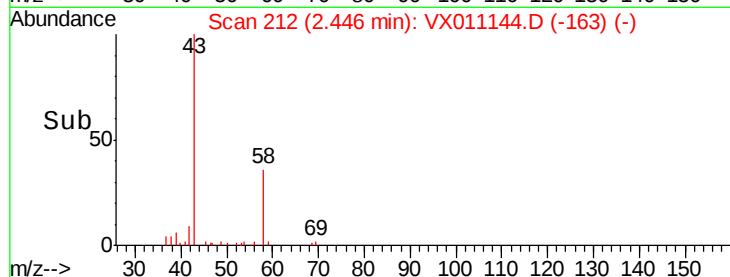
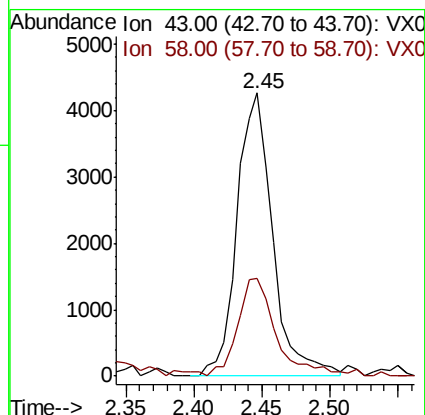
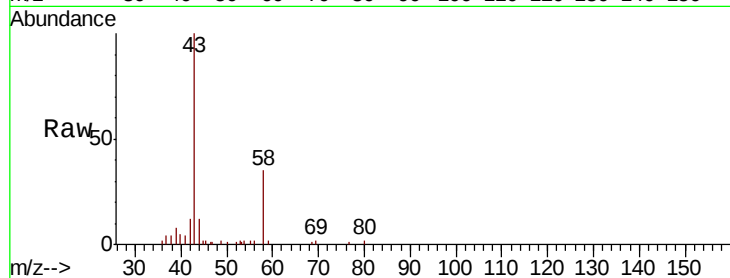
SU19-MSW0413

Tot Ion: 43 Resp: 7794

Ion Ratio Lower Upper

43 100

58 33.2 27.7 41.5



#18

Methyl Acetate

Concen: 0.274 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX011144.D

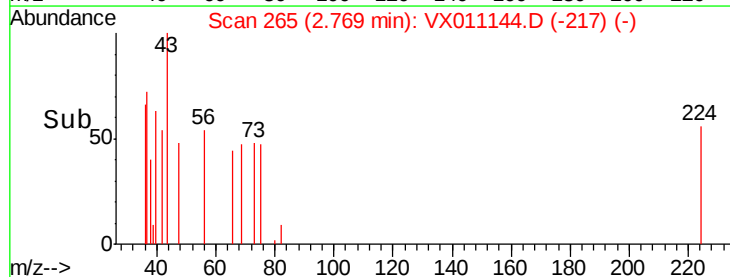
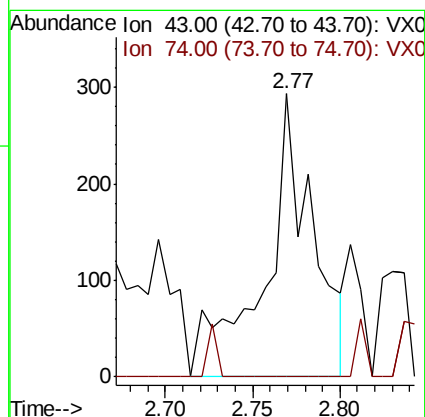
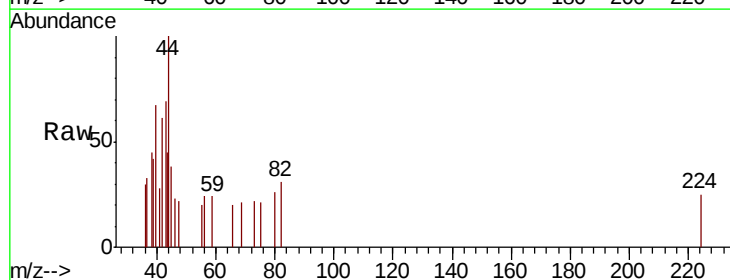
Acq: 29 Jul 2019 14:38

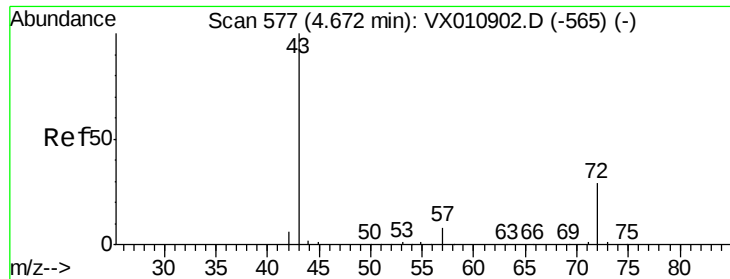
Tgt Ion: 43 Resp: 556

Ion Ratio Lower Upper

43 100

74 0.0 21.5 32.3#





#25

2-Butanone

Concen: 1.302 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

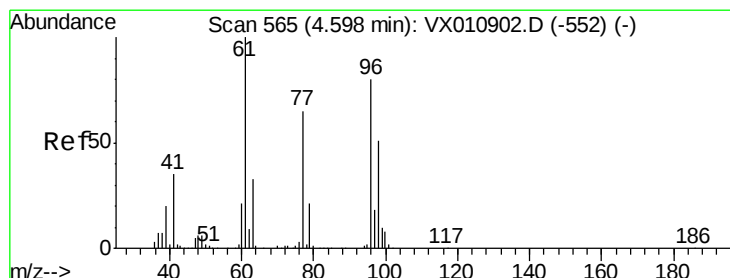
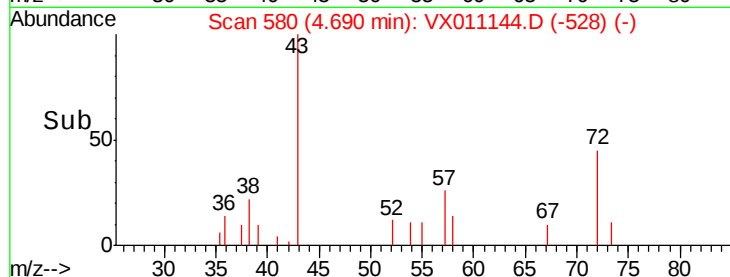
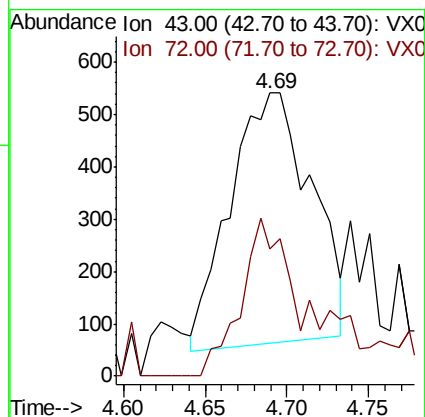
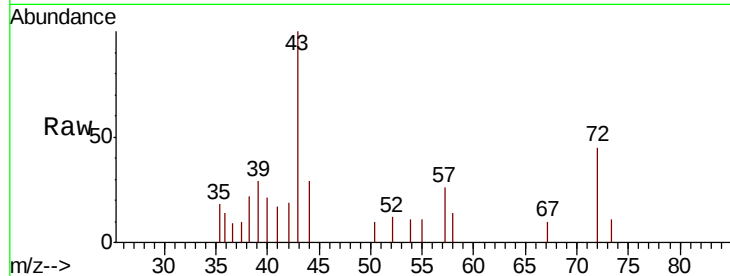
SU19-MSW0413

Tot Ion: 43 Resp: 1664

Ion Ratio Lower Upper

43 100

72 52.4 23.0 34.6#



#27

cis-1,2-Dichloroethene

Concen: 0.419 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

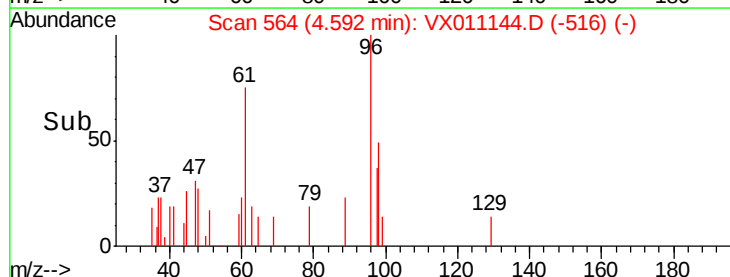
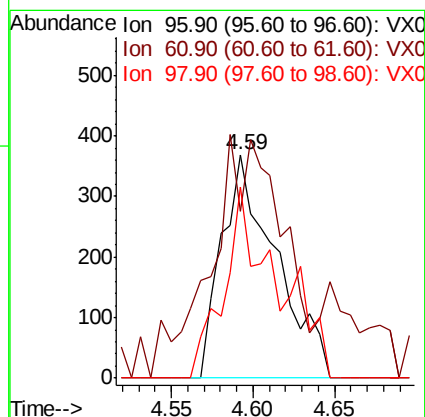
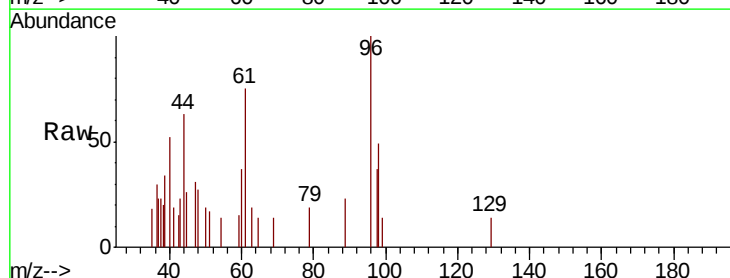
Tgt Ion: 96 Resp: 850

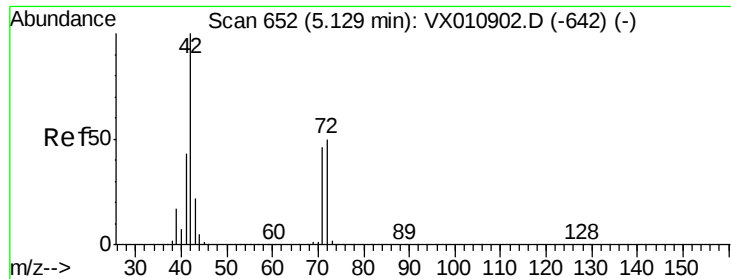
Ion Ratio Lower Upper

96 100

61 146.5 0.0 269.0

98 85.1 0.0 131.4

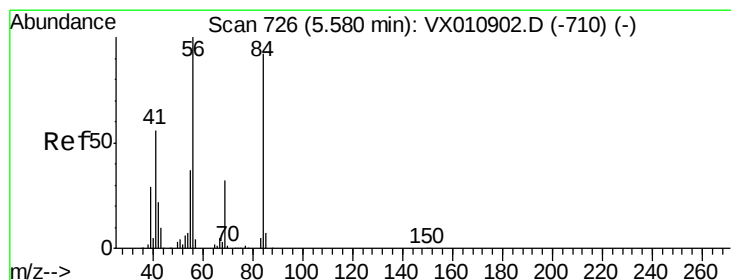
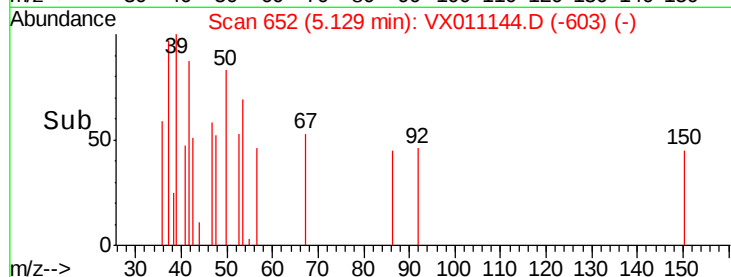
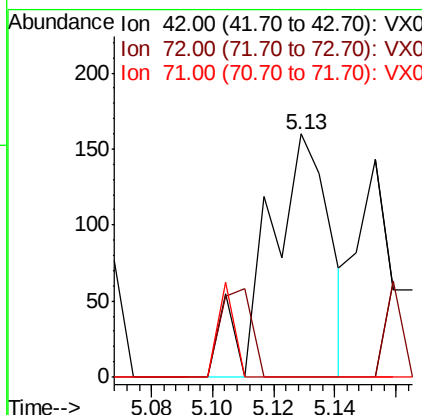
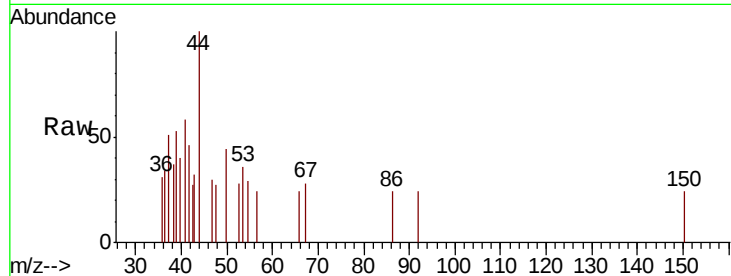




#29
Tetrahydrofuran
Concen: 0.279 ug/l
RT: 5.13 min Scan# 652
Delta R.T. 0.00 min
Lab File: VX011144.D
Acq: 29 Jul 2019 14:38

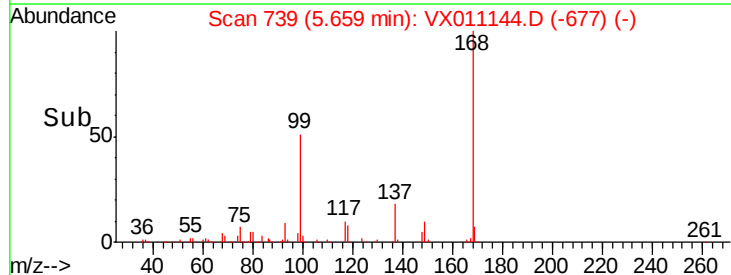
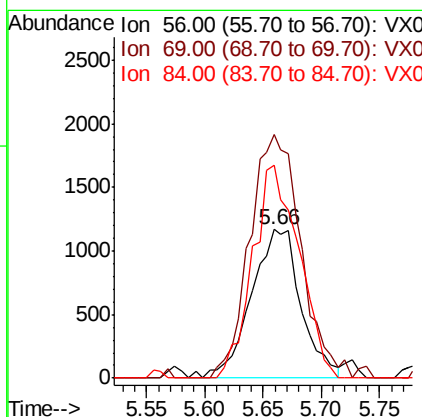
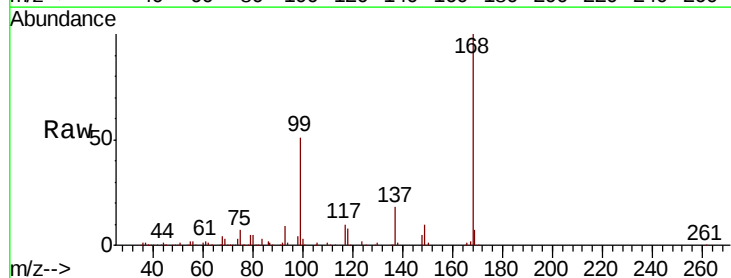
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0413

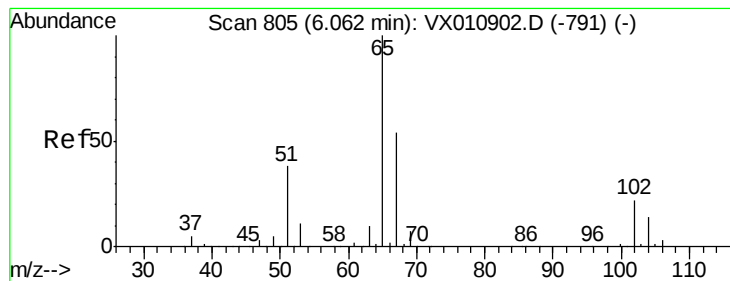
Tot Ion: 42 Resp: 226
Ion Ratio Lower Upper
42 100
72 0.0 39.8 59.8#
71 0.0 37.0 55.4#



#31
Cyclohexane
Concen: 1.294 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX011144.D
Acq: 29 Jul 2019 14:38

Tgt Ion: 56 Resp: 3465
Ion Ratio Lower Upper
56 100
69 163.5 25.8 38.8#
84 143.0 73.8 110.6#





#33

1,2-Dichloroethane-d4

Concen: 51.984 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

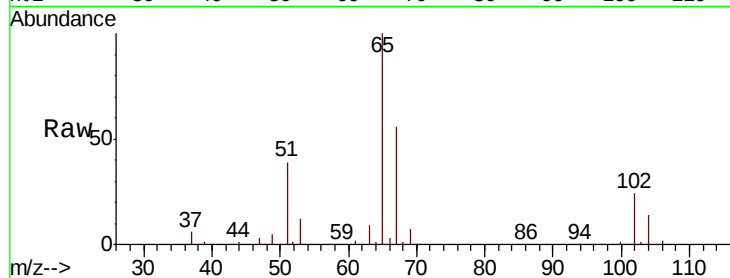
SU19-MSW0413

Tot Ion: 65 Resp: 102489

Ion Ratio Lower Upper

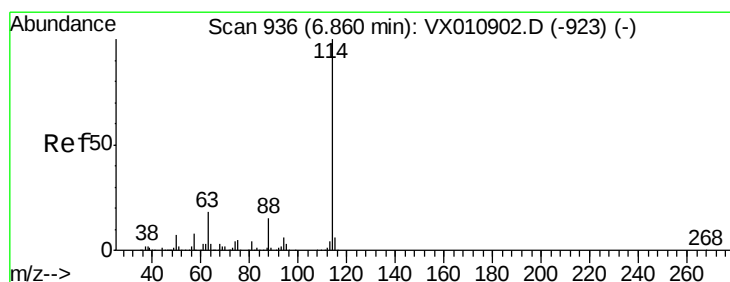
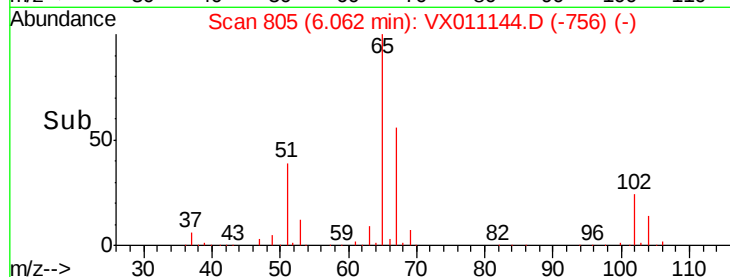
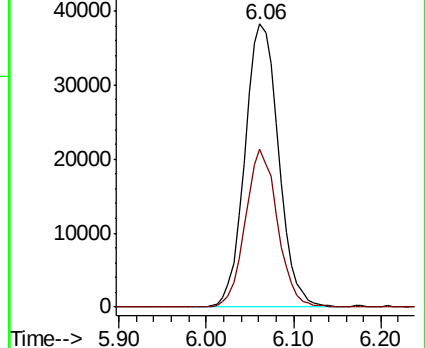
65 100

67 53.2 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

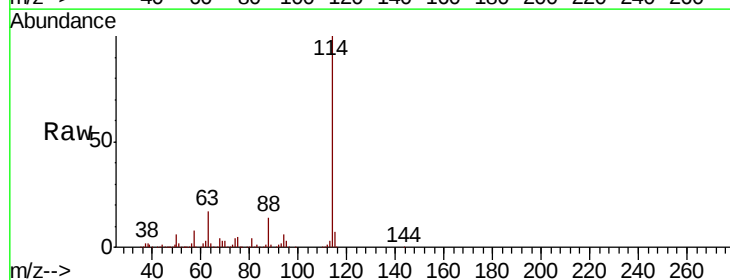
Tgt Ion: 114 Resp: 300723

Ion Ratio Lower Upper

114 100

63 17.4 0.0 35.6

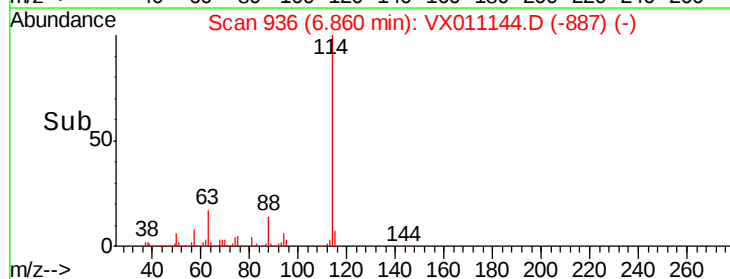
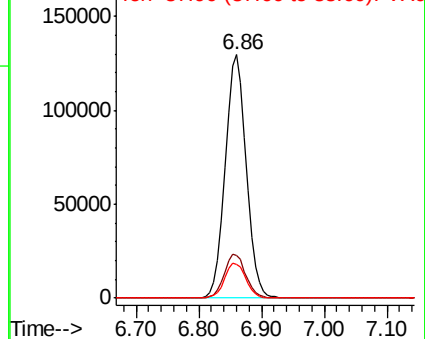
88 14.0 0.0 29.8

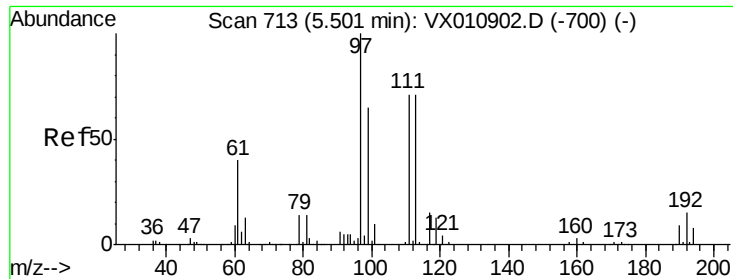


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

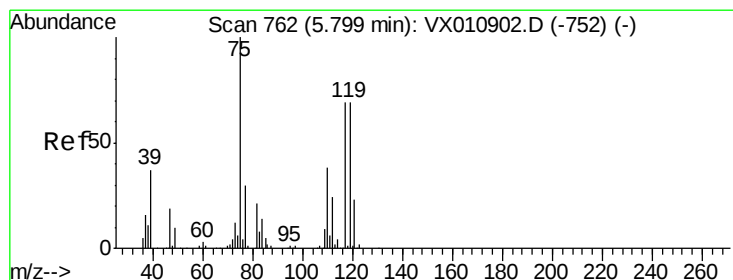
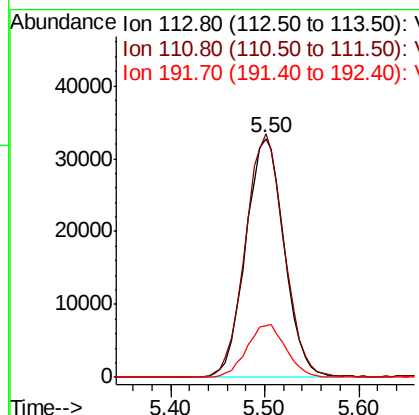
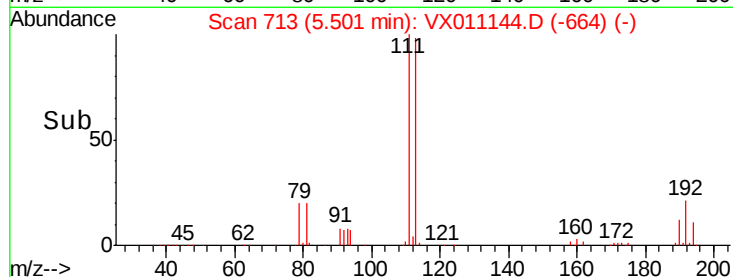
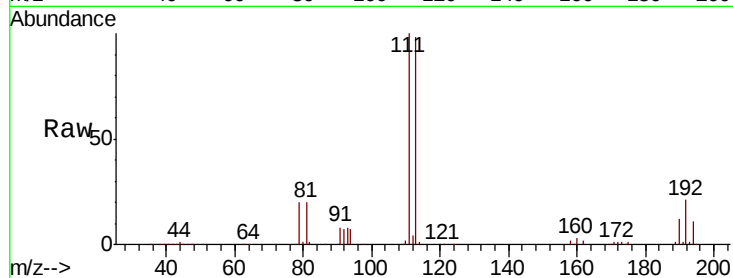




#35
Dibromofluoromethane
Concen: 49.331 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.00 min
Lab File: VX011144.D
Acq: 29 Jul 2019 14:38

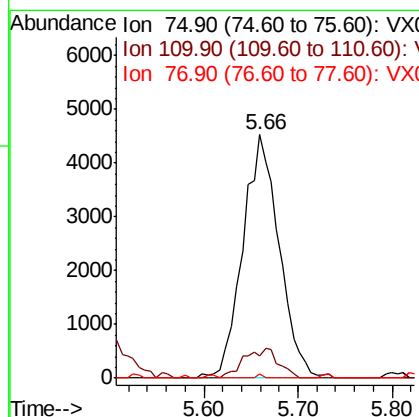
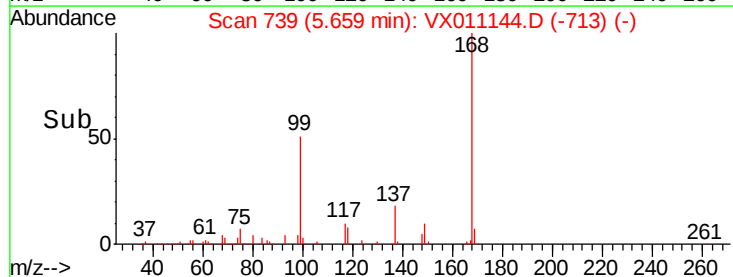
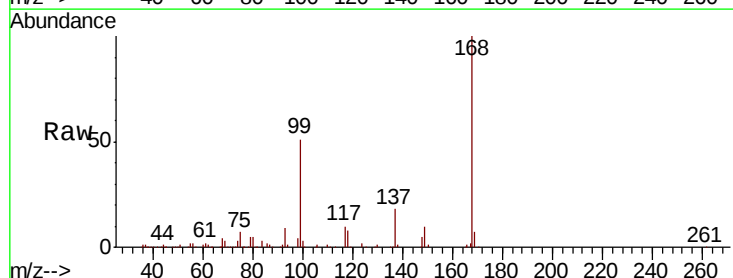
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0413

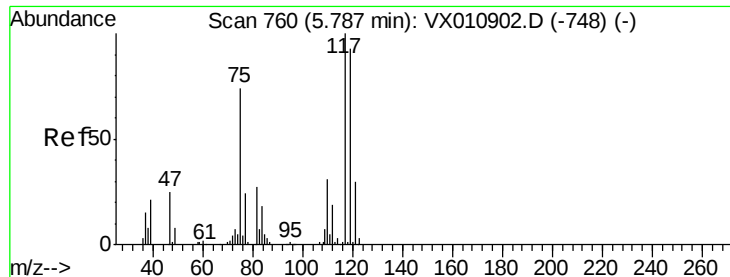
Tot Ion:113 Resp: 94160
Ion Ratio Lower Upper
113 100
111 102.2 82.3 123.5
192 22.5 17.4 26.2



#36
1,1-Dichloropropene
Concen: 4.953 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.14 min
Lab File: VX011144.D
Acq: 29 Jul 2019 14:38

Tgt Ion: 75 Resp: 12234
Ion Ratio Lower Upper
75 100
110 11.6 19.9 59.7#
77 0.2 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.719 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0413

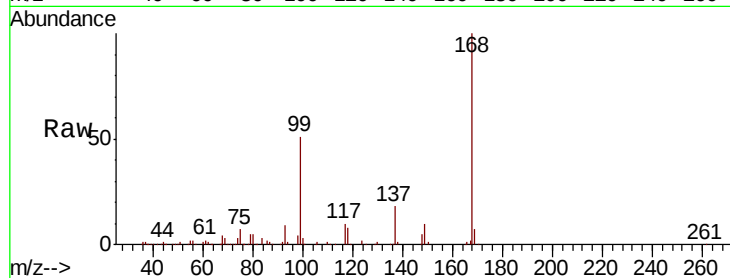
Tot Ion:117 Resp: 17295

Ion Ratio Lower Upper

117 100

119 4.6 74.2 111.2#

121 0.0 24.2 36.2#

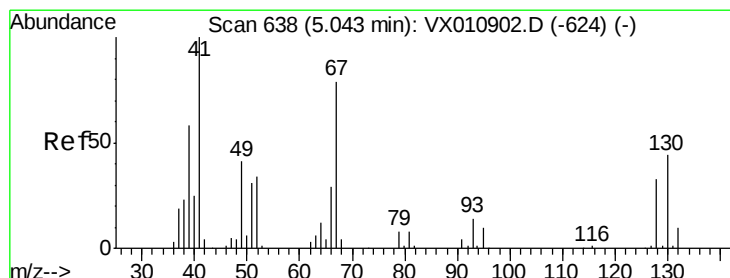
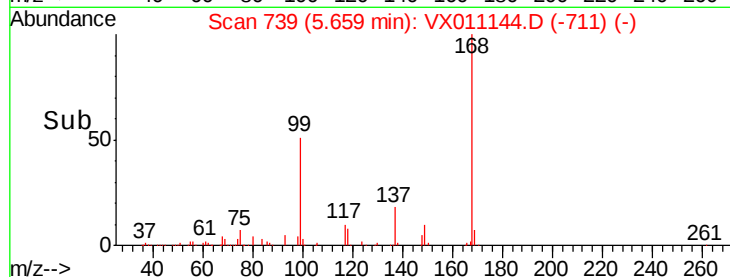
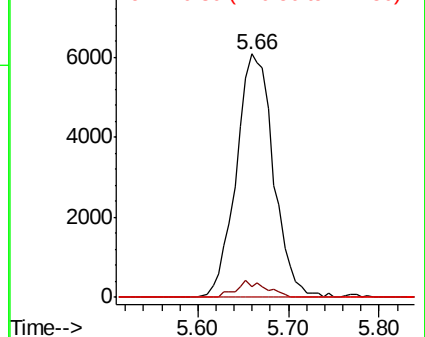


Abundance

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



#41

Methacrylonitrile

Concen: 0.235 ug/l

RT: 5.03 min Scan# 635

Delta R.T. -0.02 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Tgt Ion: 41 Resp: 338

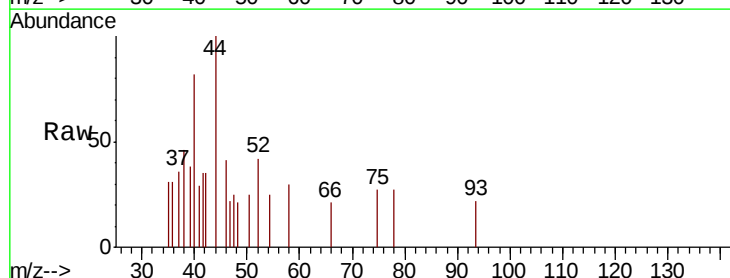
Ion Ratio Lower Upper

41 100

39 0.0 45.4 68.2#

67 0.0 65.9 98.9#

52 33.7 26.2 39.2



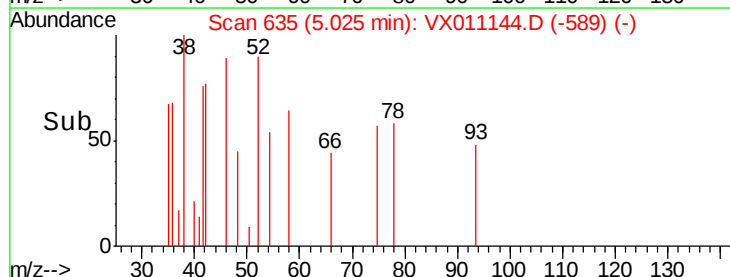
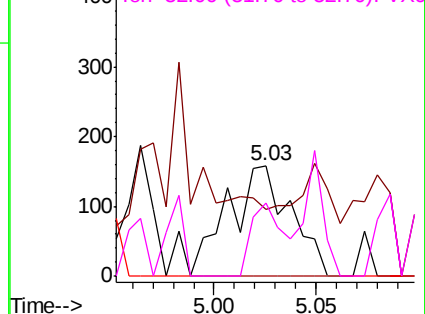
Abundance

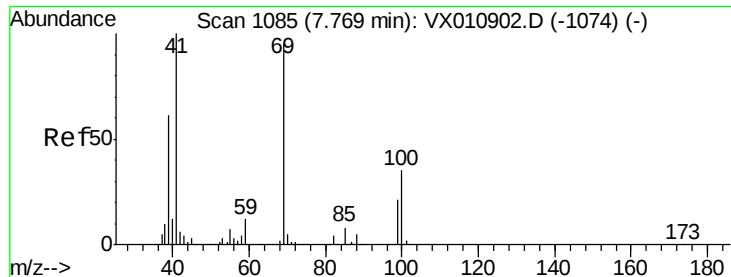
Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#48

Methyl methacrylate

Concen: 0.204 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. -0.01 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0413

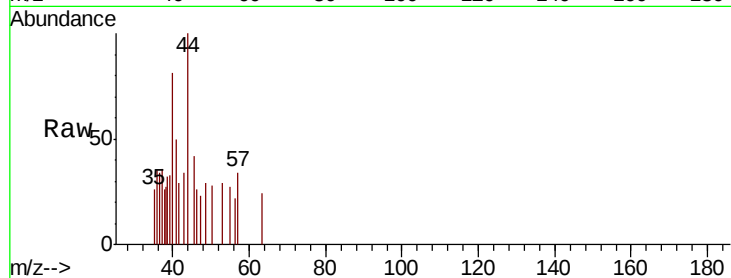
Tot Ion: 41 Resp: 414

Ion Ratio Lower Upper

41 100

69 0.0 74.4 111.6#

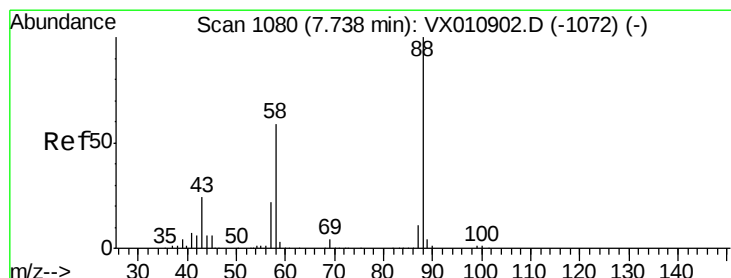
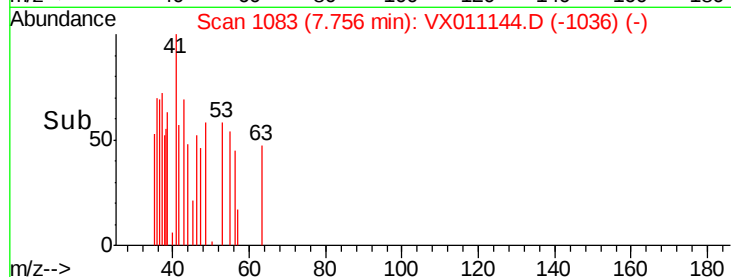
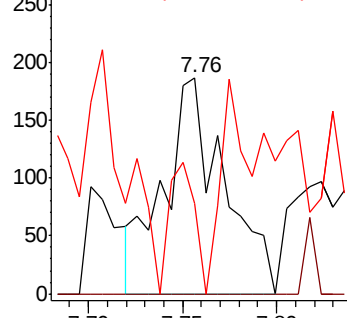
39 25.6 48.9 73.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 0.688 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.06 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

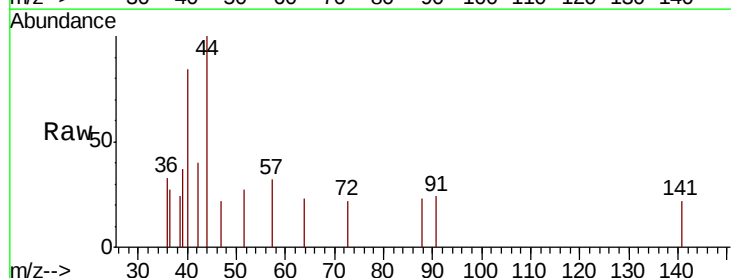
Tgt Ion: 88 Resp: 39

Ion Ratio Lower Upper

88 100

43 117.9 22.9 34.3#

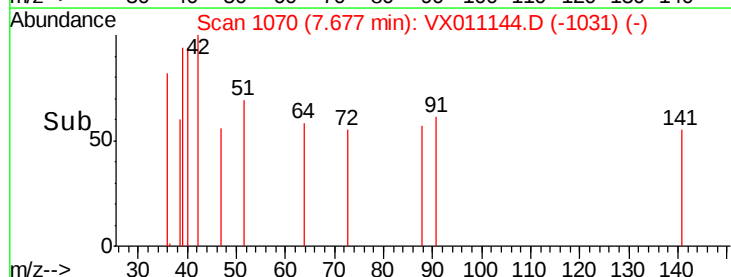
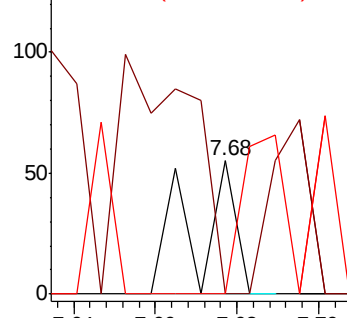
58 117.9 49.8 74.8#

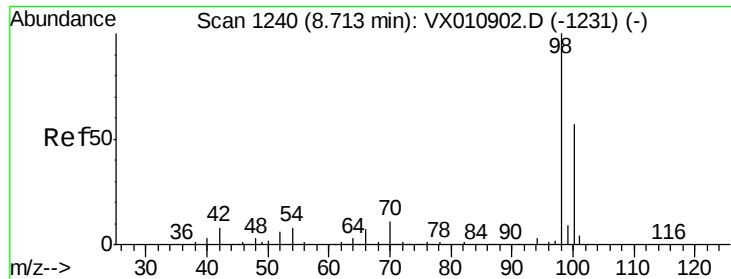


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

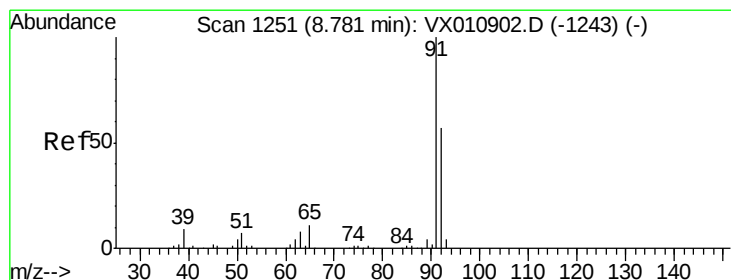
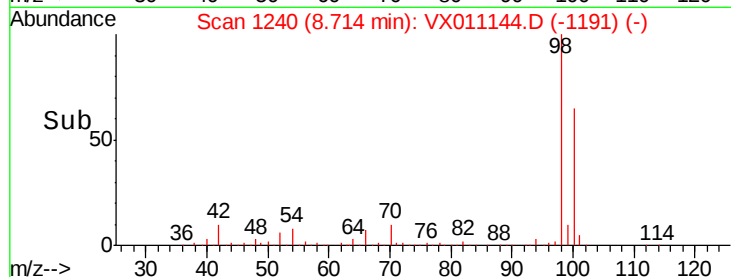
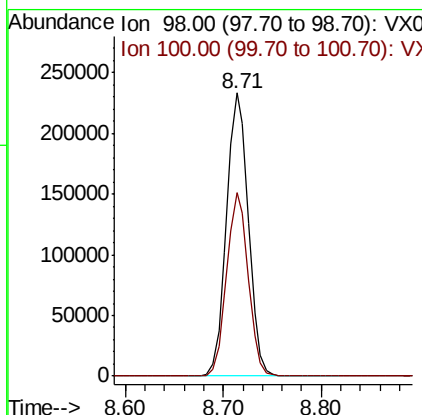
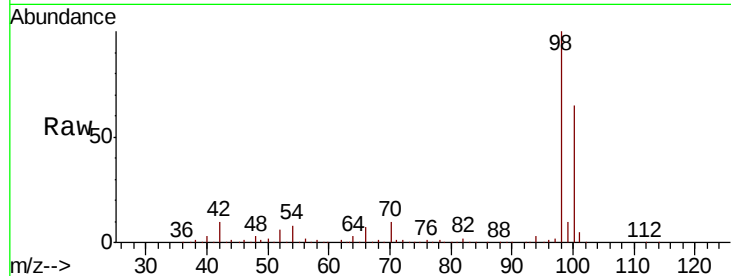




#50
Toluene-d8
Concen: 50.513 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011144.D
Acq: 29 Jul 2019 14:38

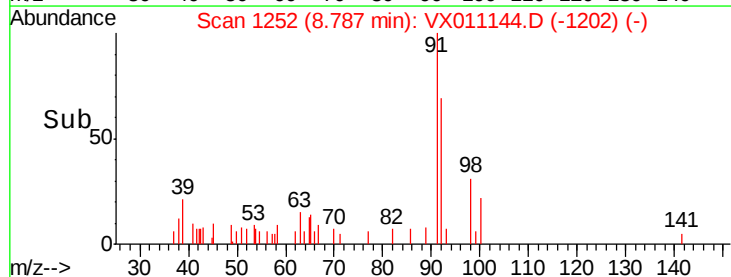
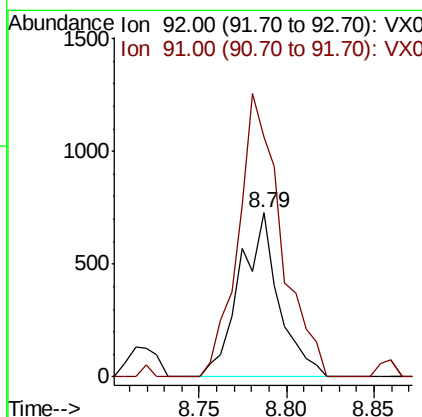
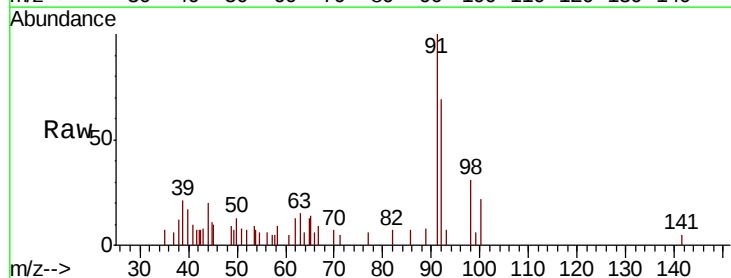
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0413

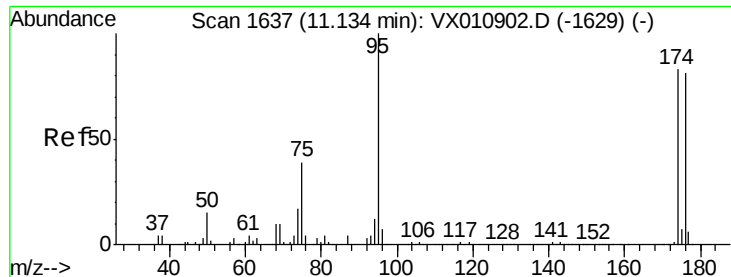
Tot Ion: 98 Resp: 361621
Ion Ratio Lower Upper
98 100
100 64.2 50.6 75.8



#52
Toluene
Concen: 0.228 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.01 min
Lab File: VX011144.D
Acq: 29 Jul 2019 14:38

Tgt Ion: 92 Resp: 1135
Ion Ratio Lower Upper
92 100
91 189.3 139.4 209.0





#62

4-Bromofluorobenzene

Concen: 48.375 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0413

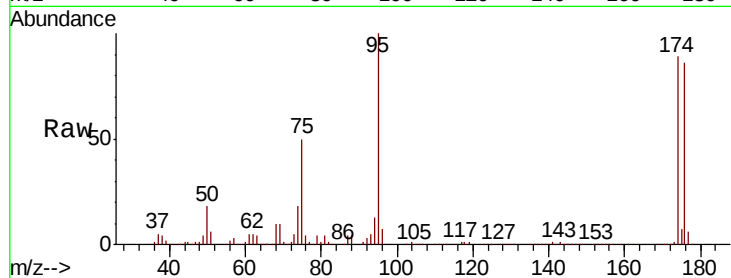
Tot Ion: 95 Resp: 127295

Ion Ratio Lower Upper

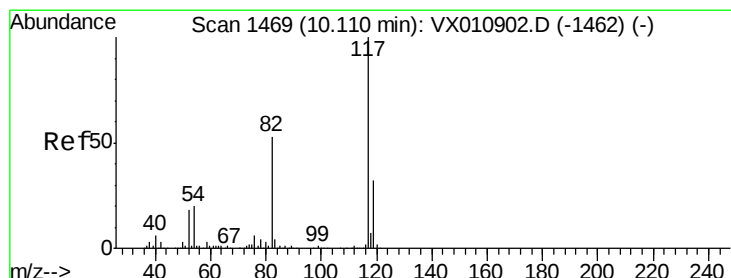
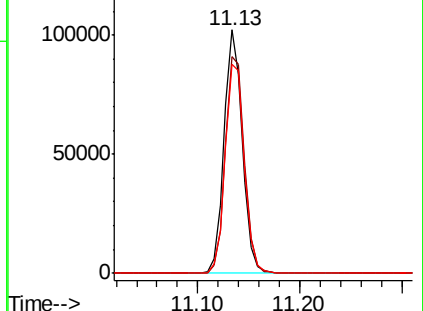
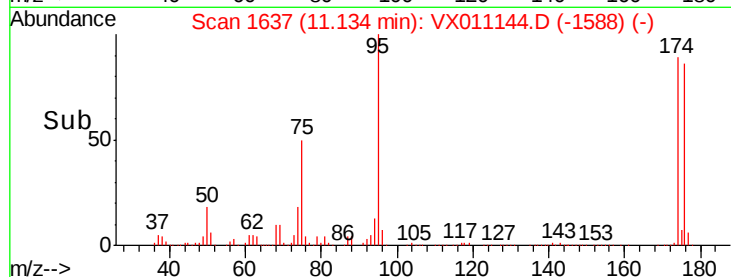
95 100

174 92.4 0.0 180.6

176 89.6 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX011144.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

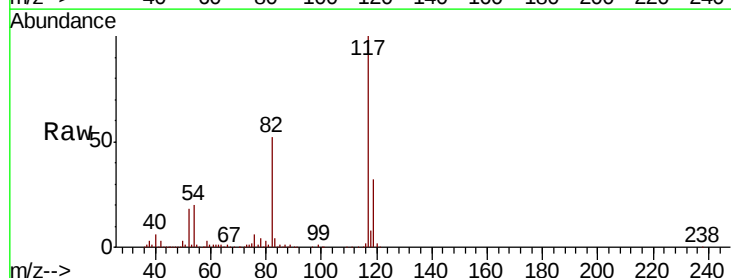
Tgt Ion: 117 Resp: 282099

Ion Ratio Lower Upper

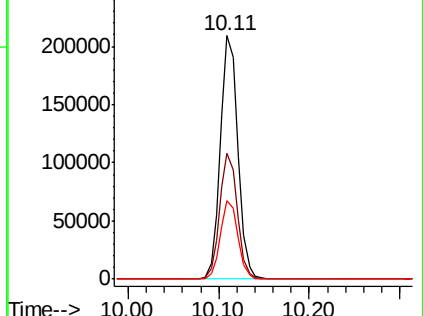
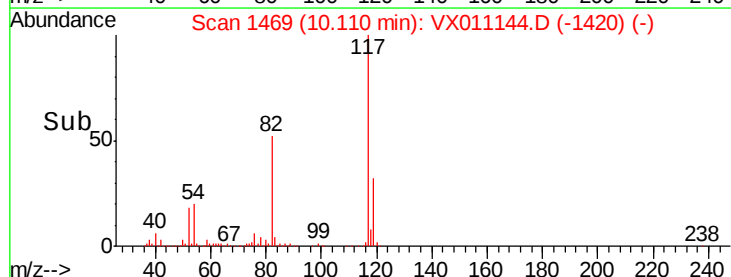
117 100

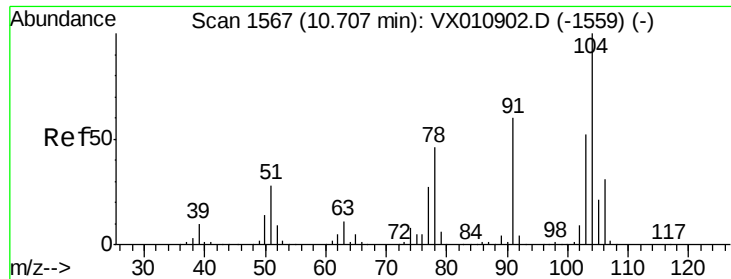
82 51.8 42.6 63.8

119 32.4 25.9 38.9



Abundance Ion 116.90 (116.60 to 117.60): VX011144.D (-1420) (-)

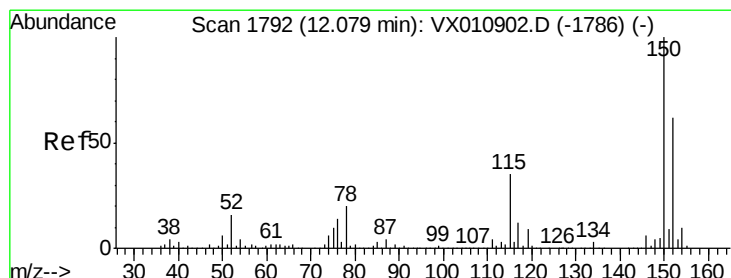
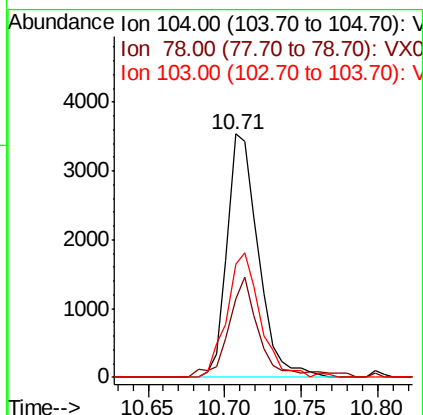
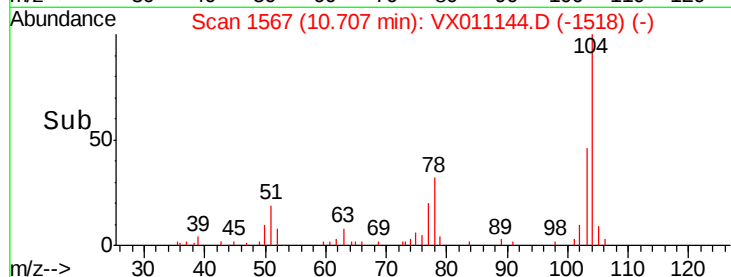
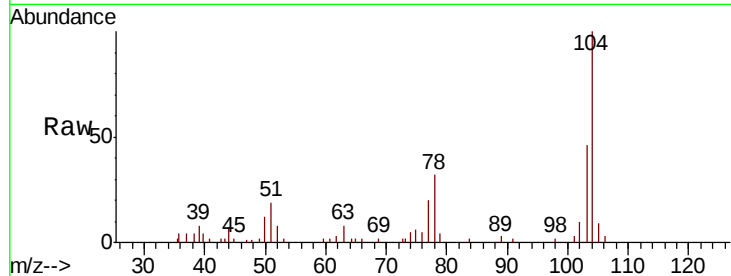




#70
Stvrene
Concen: 0.815 ug/l
RT: 10.71 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX011144.D
Acq: 29 Jul 2019 14:38

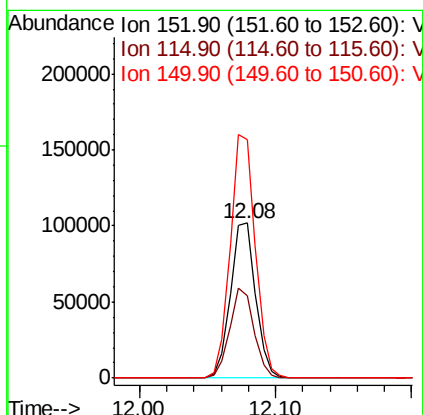
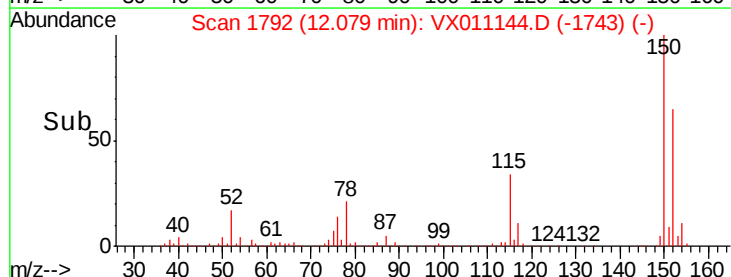
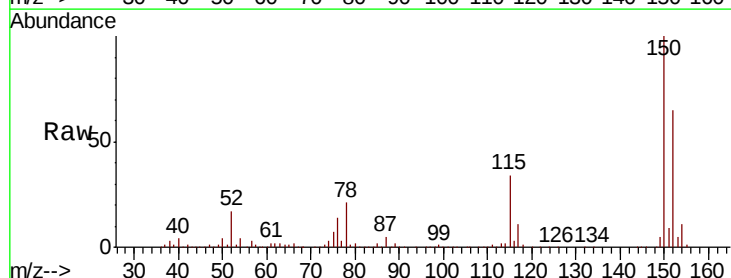
Instrument :
MSVOA_X
ClientSampleId :
SU19-MSW0413

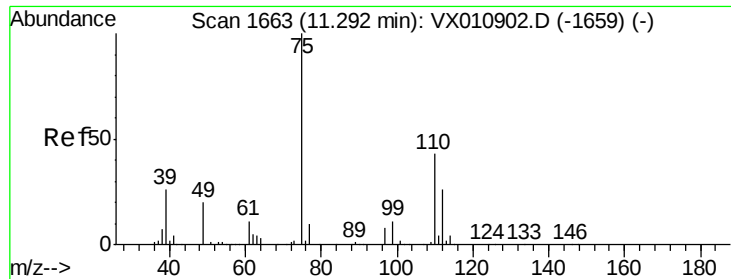
Tot Ion:104 Resp: 5016
Ion Ratio Lower Upper
104 100
78 40.9 38.8 58.2
103 54.1 44.2 66.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX011144.D
Acq: 29 Jul 2019 14:38

Tgt Ion:152 Resp: 130786
Ion Ratio Lower Upper
152 100
115 56.1 39.7 119.1
150 156.5 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 26.993 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

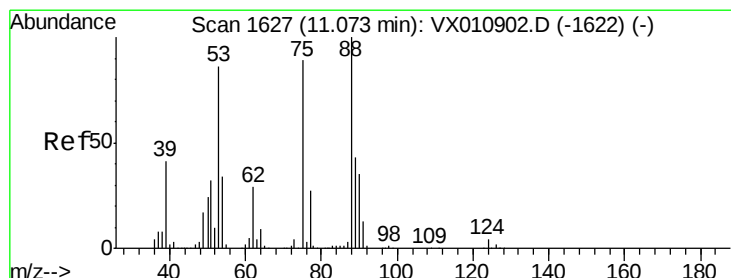
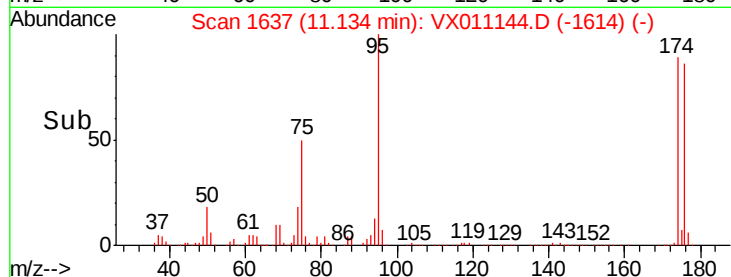
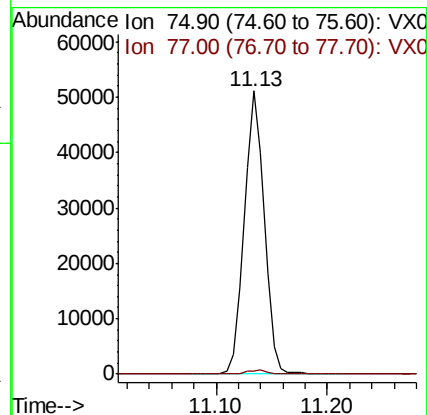
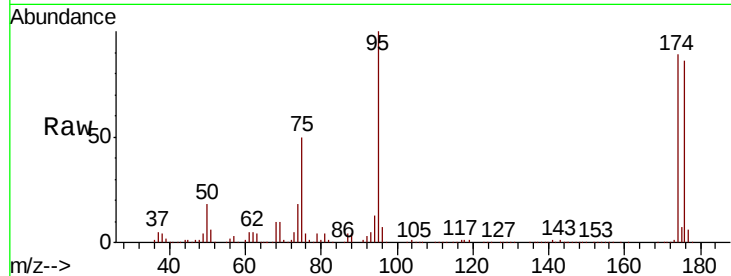
SU19-MSW0413

Tot Ion: 75 Resp: 63706

Ion Ratio Lower Upper

75 100

77 1.4 21.3 64.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.924 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011144.D

Acq: 29 Jul 2019 14:38

Tgt Ion: 75 Resp: 63706

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.1 38.5 57.7#

