

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081619\
 Data File : VX011601.D
 Acq On : 17 Aug 2019 00:14
 Operator : JC/SP
 Sample : K4272-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-G1-(0)

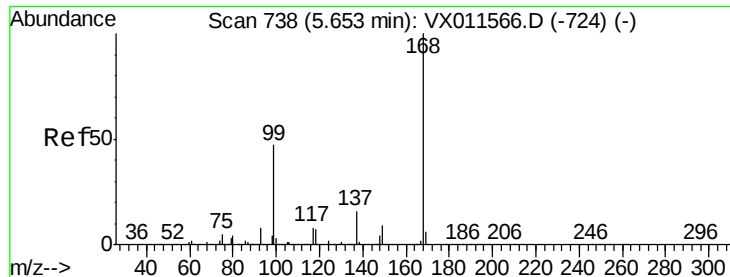
Quant Time: Aug 19 01:16:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	467079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	637231	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	559426	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	269111	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	215421	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	
35) Dibromofluoromethane	5.49	113	189913	45.57	ug/l	0.00
Spiked Amount			Recovery	=	91.14%	
50) Toluene-d8	8.71	98	722331	55.62	ug/l	0.00
Spiked Amount			Recovery	=	111.24%	
62) 4-Bromofluorobenzene	11.13	95	248384	45.31	ug/l	0.00
Spiked Amount			Recovery	=	90.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	951	0.493	ug/l #	60
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1102	0.267	ug/l #	24
10) Methyl Iodide	2.51	142	2272	0.387	ug/l #	77
11) Tert butyl alcohol	3.01	59	7712	7.257	ug/l #	79
13) Acrolein	2.26	56	615	13.973	ug/l #	64
16) Acetone	2.43	43	11743	5.392	ug/l	99
17) Carbon Disulfide	2.56	76	2083	0.222	ug/l	96
18) Methyl Acetate	2.76	43	4537	0.672	ug/l #	82
20) Methylene Chloride	2.85	84	10478	2.291	ug/l	92
25) 2-Butanone	4.68	43	3670	1.073	ug/l #	89
36) 1,1-Dichloropropene	5.65	75	26222	4.813	ug/l #	51
38) Carbon Tetrachloride	5.65	117	38266	6.375	ug/l #	15
43) Isopropyl Acetate	6.44	43	80782	8.260	ug/l	98
48) Methyl methacrylate	7.67	41	5349	1.104	ug/l #	18
49) 1,4-Dioxane	7.74	88	119	0.924	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	73046	11.411	ug/l #	52
52) Toluene	8.78	92	2426	0.225	ug/l	89
54) cis-1,3-Dichloropropene	8.61	75	35710	5.581	ug/l #	64
59) 2-Hexanone	9.54	43	87201	17.665	ug/l #	53
68) m/p-Xylenes	10.35	106	4194	0.549	ug/l	82
71) Bromoform	10.73	173	146	3.323	ug/l #	28
74) N-amyl acetate	10.82	43	3977	0.536	ug/l #	46
76) 1,2,3-Trichloropropane	11.13	75	116150	22.761	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	116150	60.613	ug/l #	11
88) 1,4-Dichlorobenzene	12.10	146	1865	0.206	ug/l #	39

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

Instrument :

MSVOA_X

ClientSampleId :

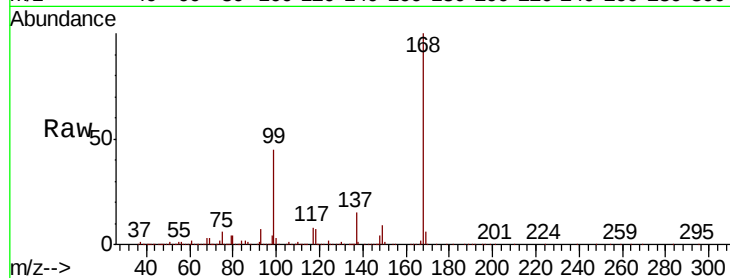
2S-G1-(0)

Tgt Ion:168 Resp: 467079

Ion Ratio Lower Upper

168 100

99 44.6 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

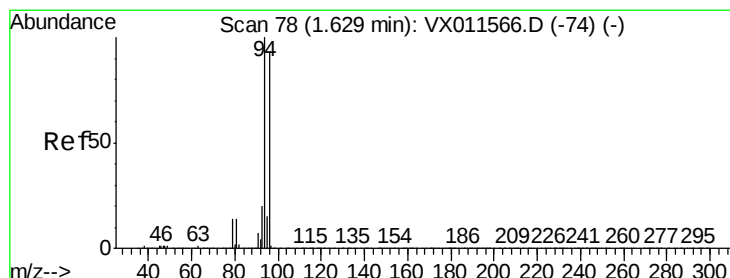
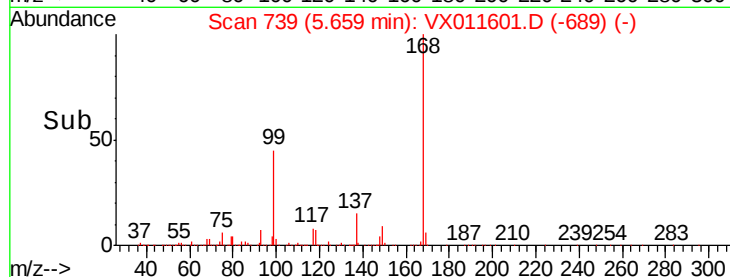
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.493 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011601.D

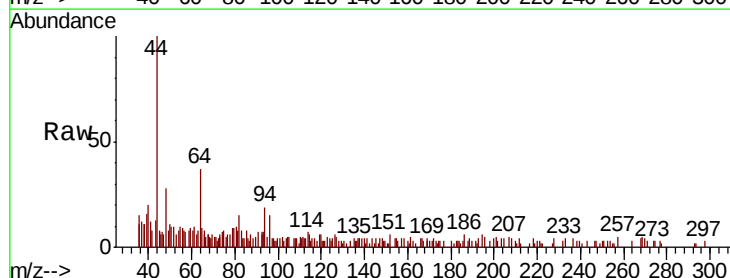
Acq: 17 Aug 2019 00:14

Tgt Ion: 94 Resp: 951

Ion Ratio Lower Upper

94 100

96 54.6 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

500

400

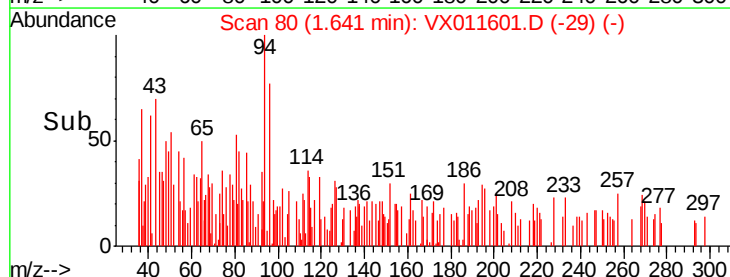
300

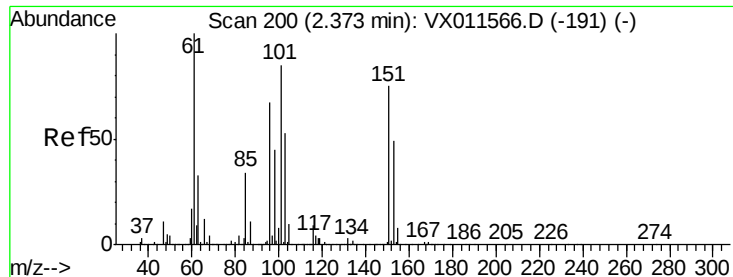
200

100

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.267 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

Instrument :

MSVOA_X

ClientSampleId :

2S-G1-(0)

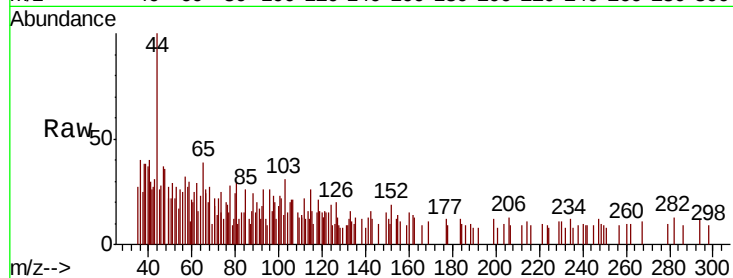
Tgt Ion:101 Resp: 1102

Ion Ratio Lower Upper

101 100

85 21.1 33.0 49.4#

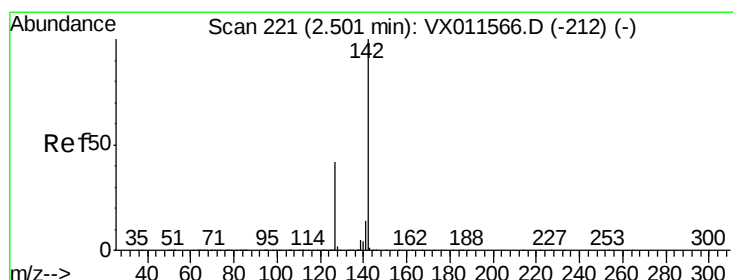
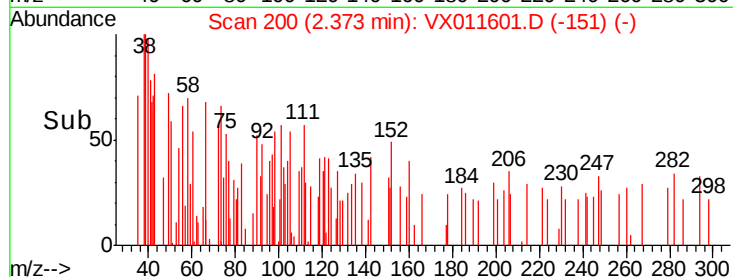
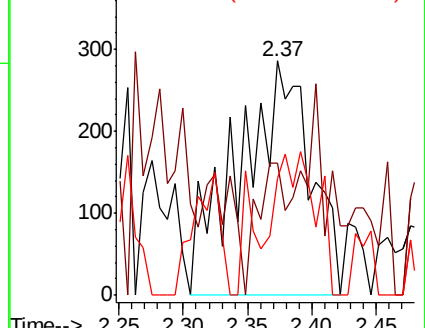
151 0.0 73.3 109.9#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 0.387 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.01 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

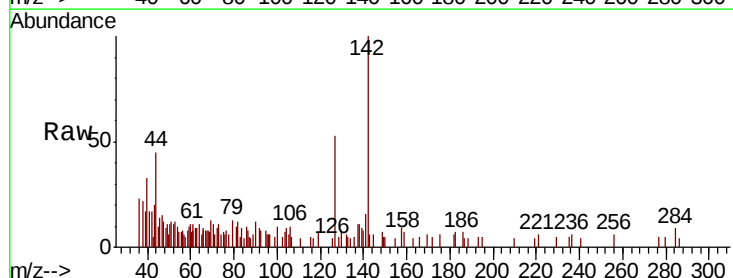
Tgt Ion:142 Resp: 2272

Ion Ratio Lower Upper

142 100

127 55.0 32.8 49.2#

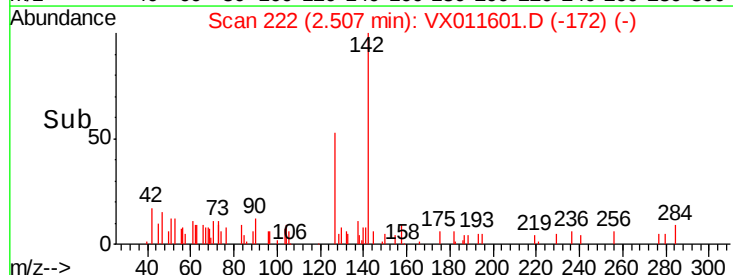
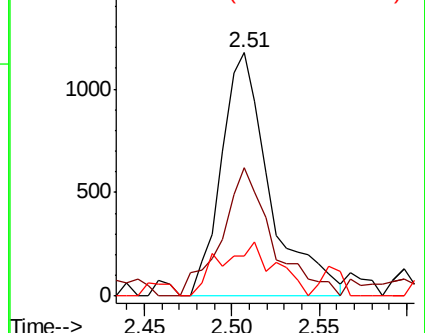
141 25.0 11.4 17.2#

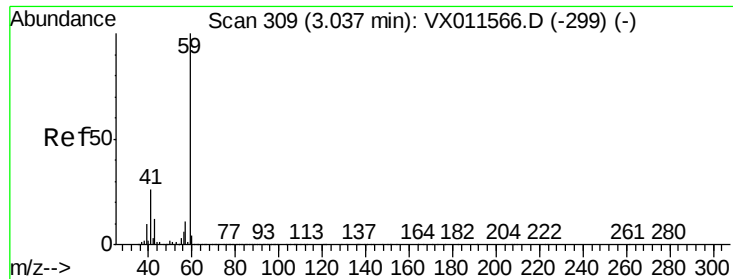


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



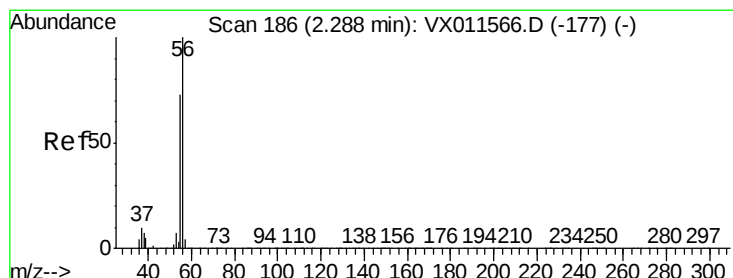
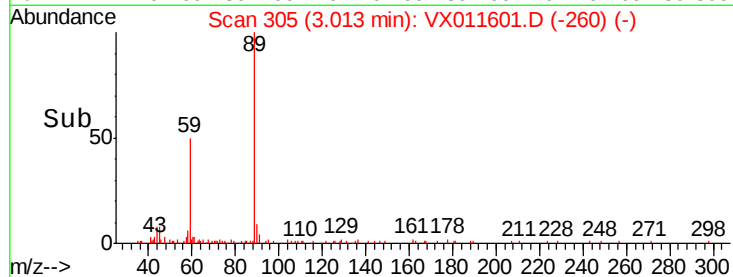
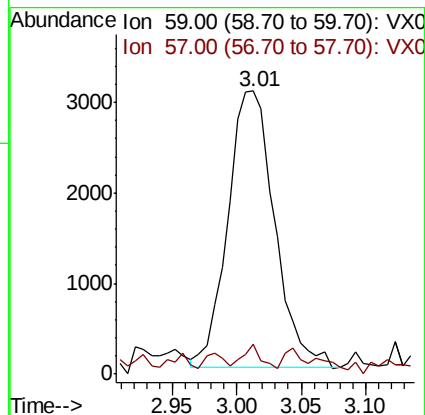
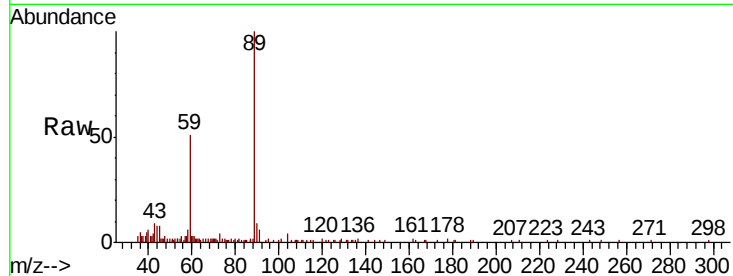


#11

Tert butyl alcohol
 Concen: 7.257 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.02 min
 Lab File: VX011601.D
 Acq: 17 Aug 2019 00:14

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-G1-(0)

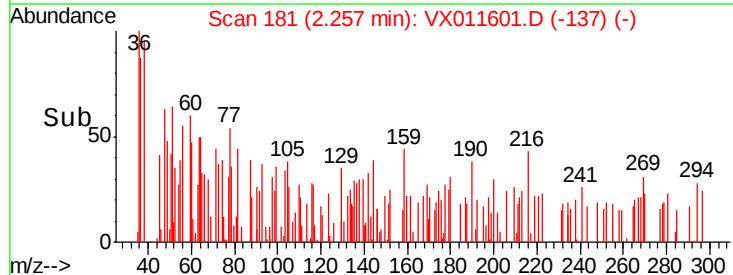
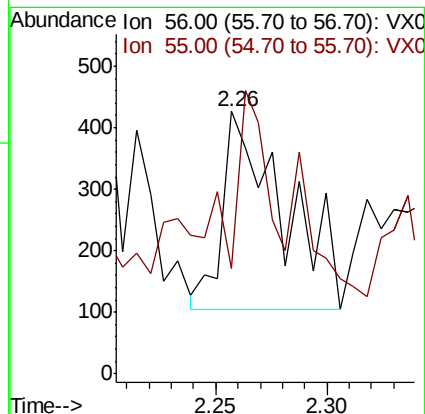
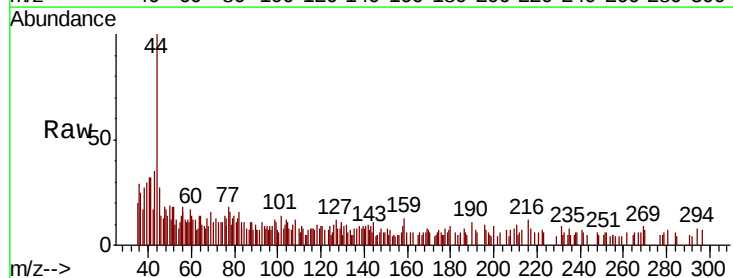
Tgt Ion: 59 Resp: 7712
 Ion Ratio Lower Upper
 59 100
 57 3.1 8.7 13.1#

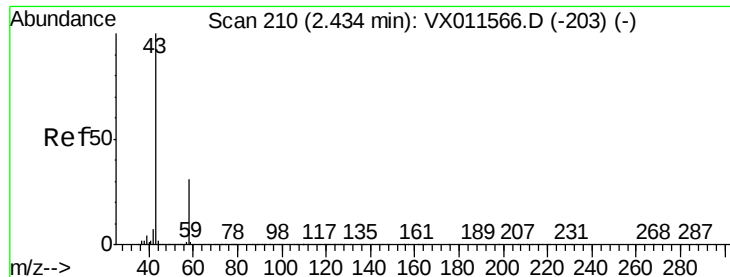


#13

Acrolein
 Concen: 13.973 ug/l
 RT: 2.26 min Scan# 181
 Delta R.T. -0.03 min
 Lab File: VX011601.D
 Acq: 17 Aug 2019 00:14

Tgt Ion: 56 Resp: 615
 Ion Ratio Lower Upper
 56 100
 55 40.3 55.5 83.3#





#16

Acetone

Concen: 5.392 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

Instrument :

MSVOA_X

ClientSampleId :

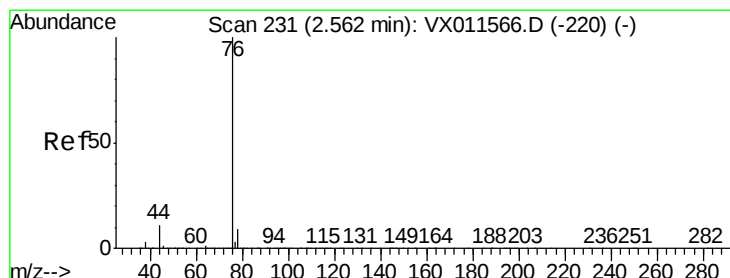
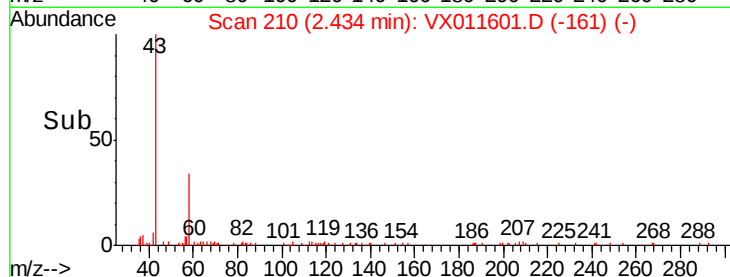
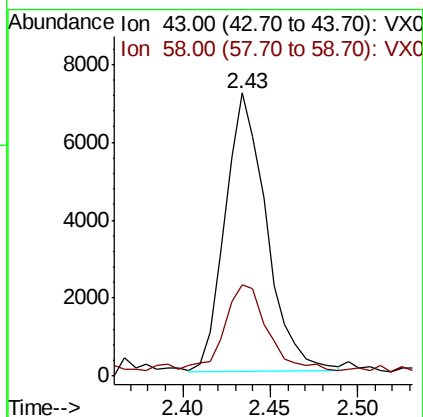
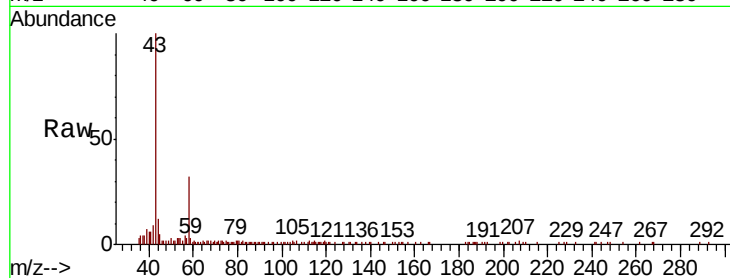
2S-G1-(0)

Tgt Ion: 43 Resp: 11743

Ion Ratio Lower Upper

43 100

58 31.1 25.2 37.8



#17

Carbon Disulfide

Concen: 0.222 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.00 min

Lab File: VX011601.D

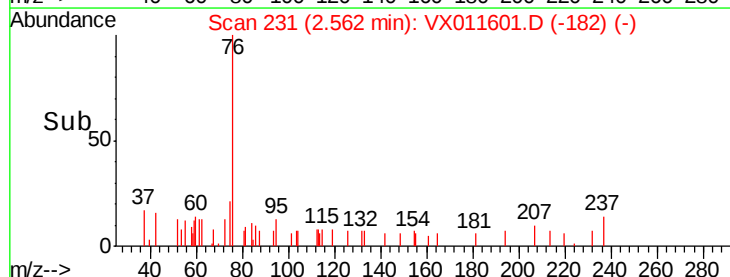
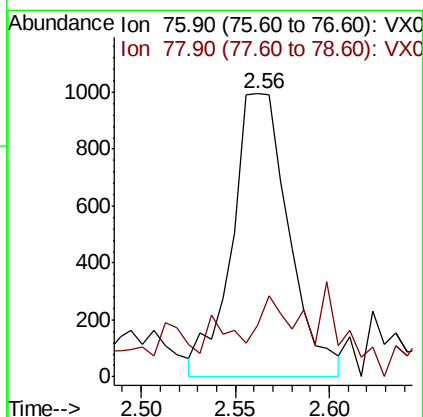
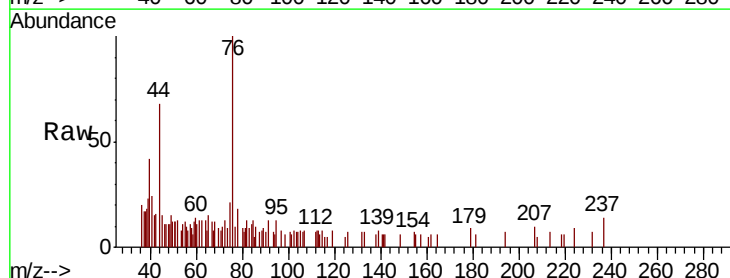
Acq: 17 Aug 2019 00:14

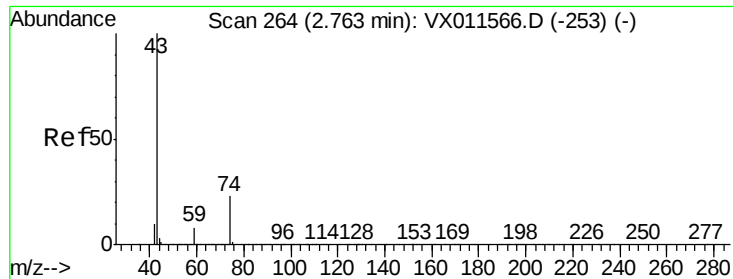
Tgt Ion: 76 Resp: 2083

Ion Ratio Lower Upper

76 100

78 7.6 7.2 10.8

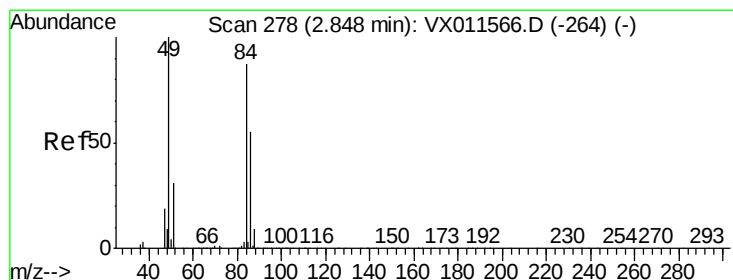
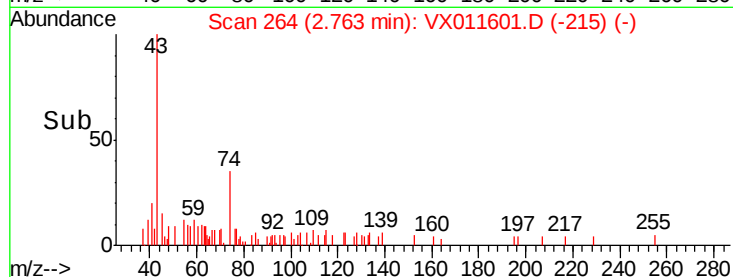
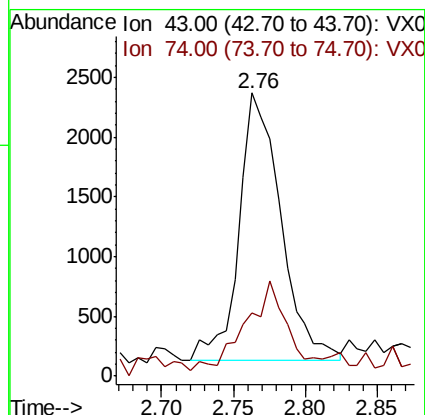
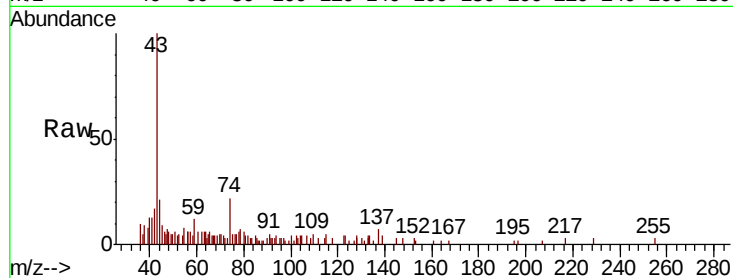




#18
Methyl Acetate
Concen: 0.672 ug/l
RT: 2.76 min Scan# 264
Delta R.T. -0.00 min
Lab File: VX011601.D
Acq: 17 Aug 2019 00:14

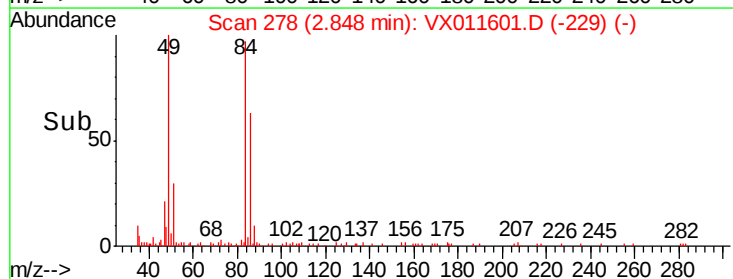
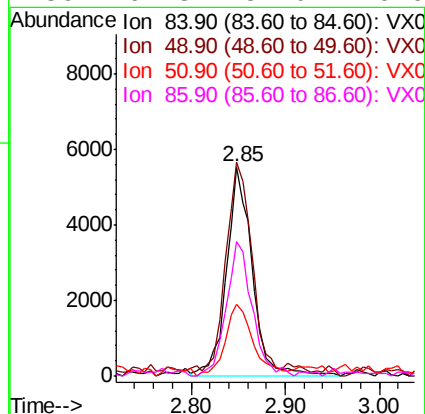
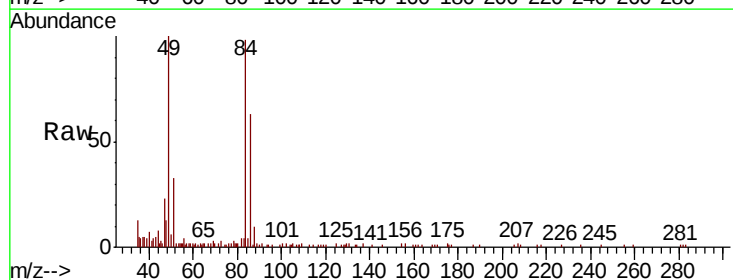
Instrument :
MSVOA_X
ClientSampleId :
2S-G1-(0)

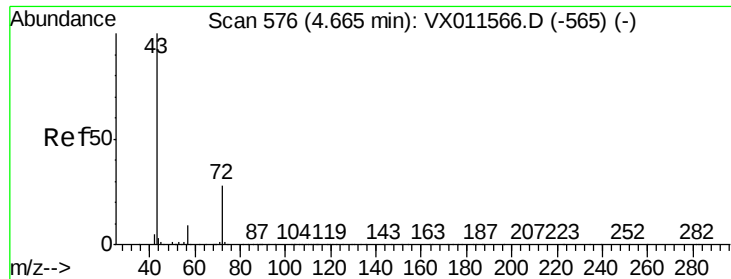
Tgt Ion: 43 Resp: 4537
Ion Ratio Lower Upper
43 100
74 33.7 19.7 29.5#



#20
Methylene Chloride
Concen: 2.291 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.00 min
Lab File: VX011601.D
Acq: 17 Aug 2019 00:14

Tgt Ion: 84 Resp: 10478
Ion Ratio Lower Upper
84 100
49 102.2 92.4 138.6
51 30.6 28.5 42.7
86 64.3 51.0 76.6





#25

2-Butanone

Concen: 1.073 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

Instrument :

MSVOA_X

ClientSampleId :

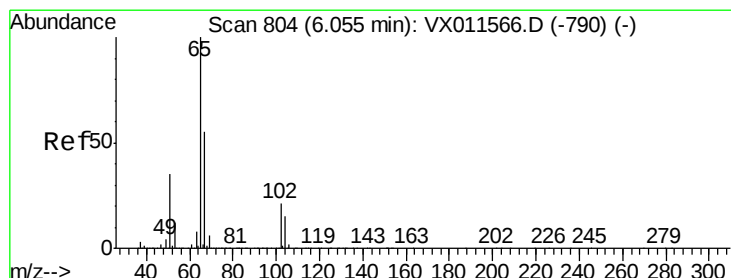
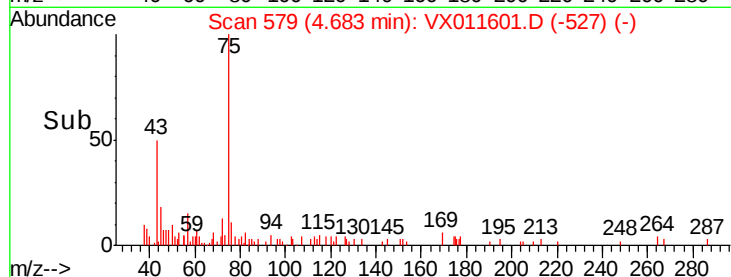
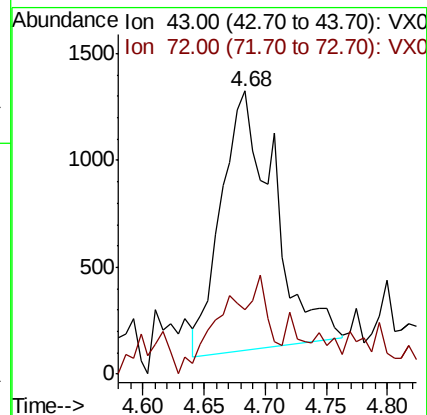
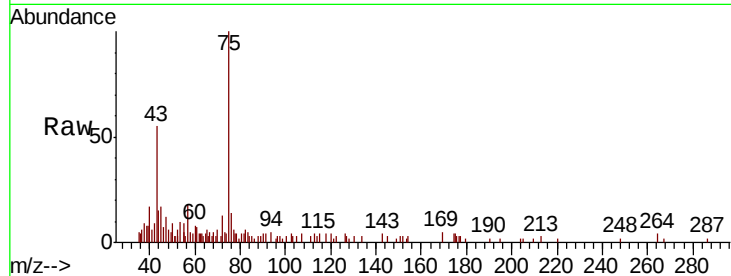
2S-G1-(0)

Tgt Ion: 43 Resp: 3670

Ion Ratio Lower Upper

43 100

72 22.1 22.2 33.4#



#33

1,2-Dichloroethane-d4

Concen: 49.733 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011601.D

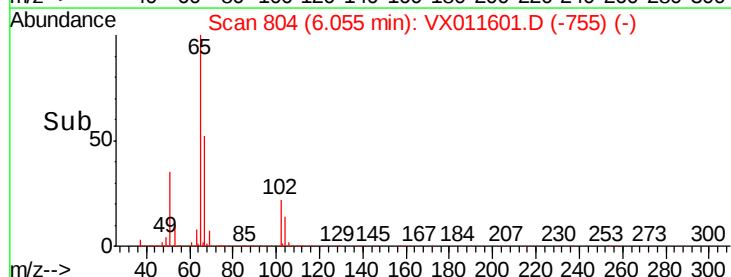
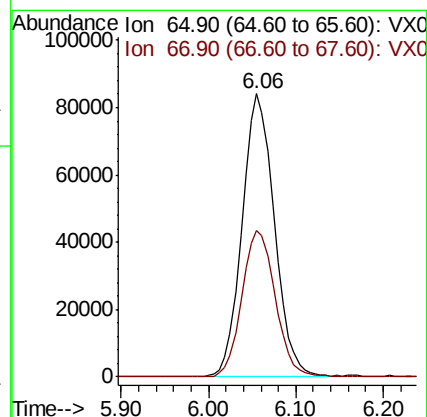
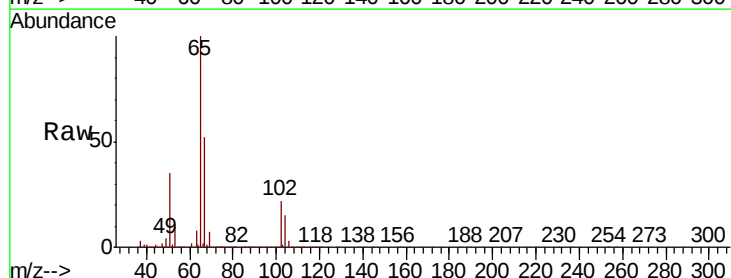
Acq: 17 Aug 2019 00:14

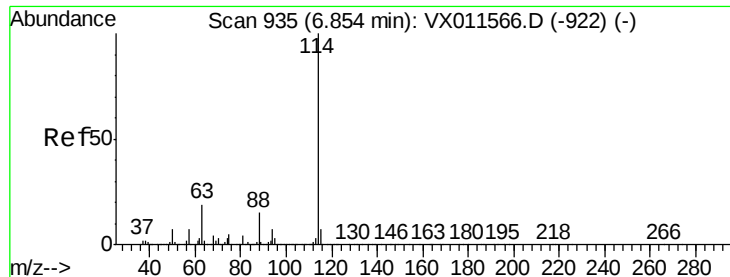
Tgt Ion: 65 Resp: 215421

Ion Ratio Lower Upper

65 100

67 53.2 0.0 107.6

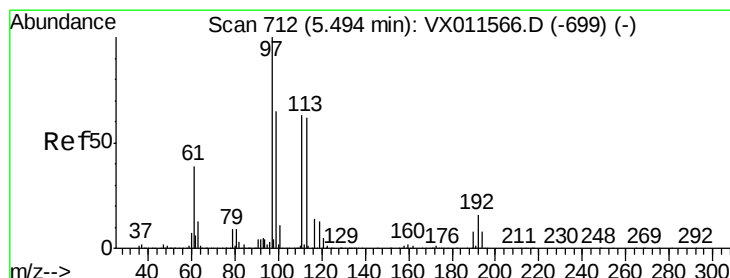
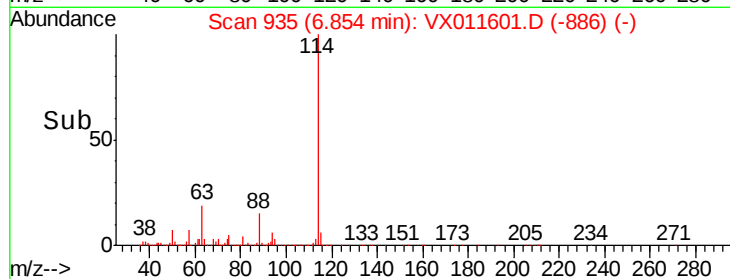
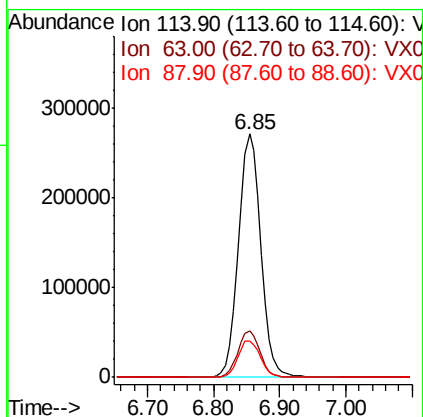
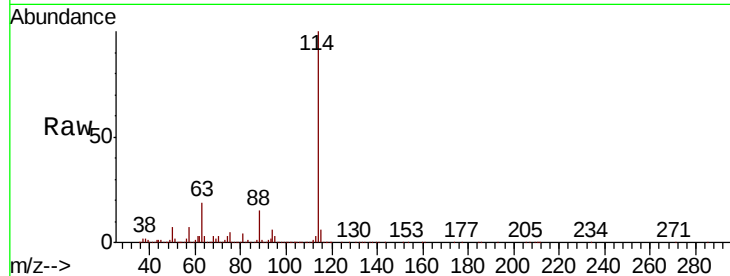




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011601.D
 Acq: 17 Aug 2019 00:14

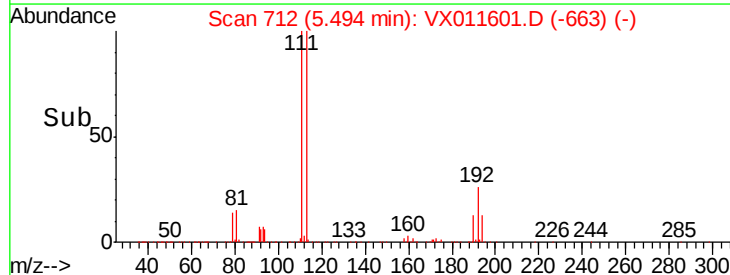
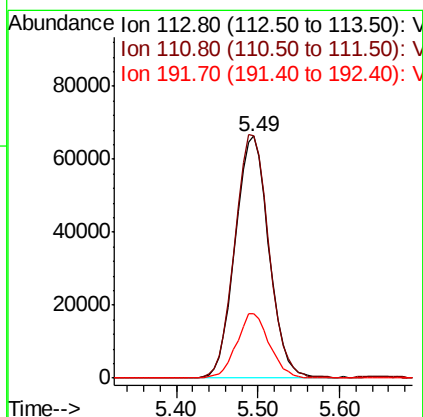
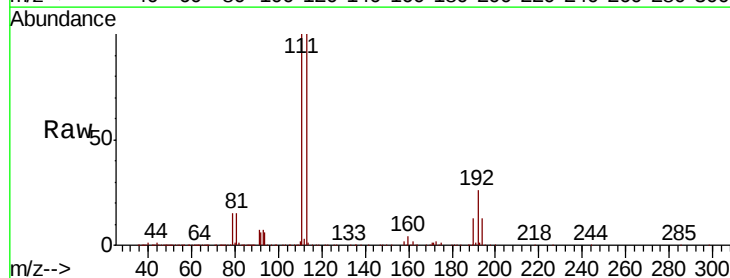
Instrument :
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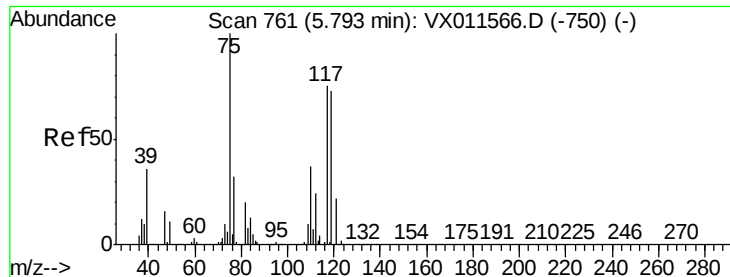
Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	37.8
88	14.8	0.0	30.2



#35
 Dibromofluoromethane
 Concen: 45.566 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX011601.D
 Acq: 17 Aug 2019 00:14

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.1	121.7
192	26.1	20.8	31.2





#36

1,1-Dichloropropene

Concen: 4.813 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

Instrument :

MSVOA_X

ClientSampleId :

2S-G1-(0)

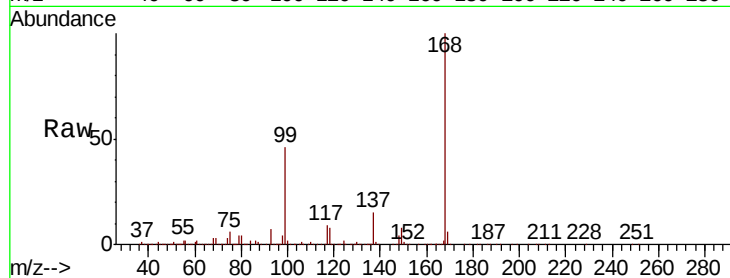
Tgt Ion: 75 Resp: 26222

Ion Ratio Lower Upper

75 100

110 12.3 19.4 58.1#

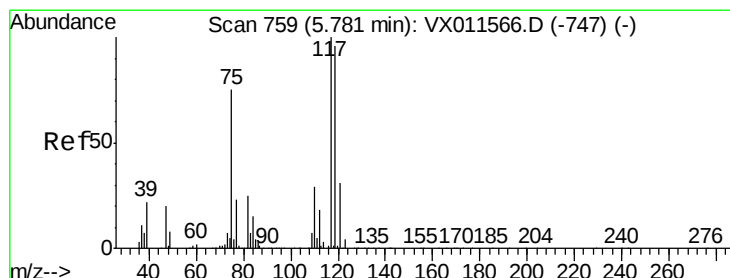
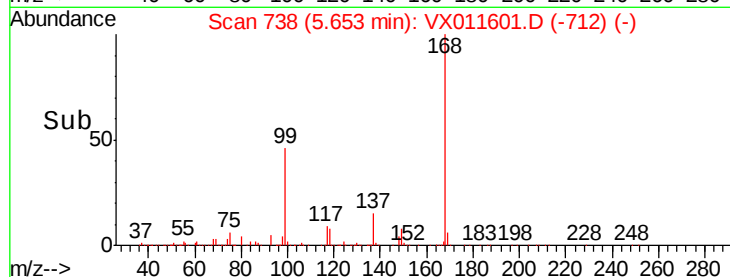
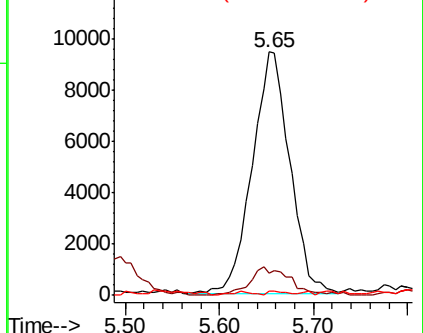
77 0.9 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.375 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

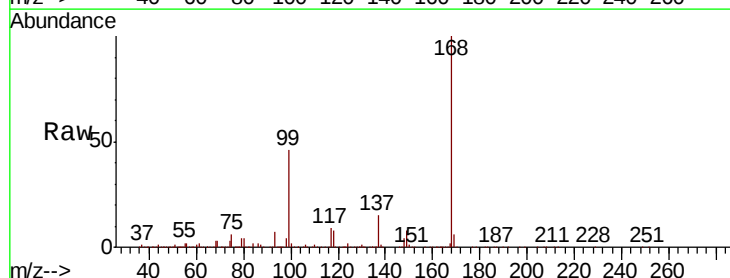
Tgt Ion: 117 Resp: 38266

Ion Ratio Lower Upper

117 100

119 3.4 76.9 115.3#

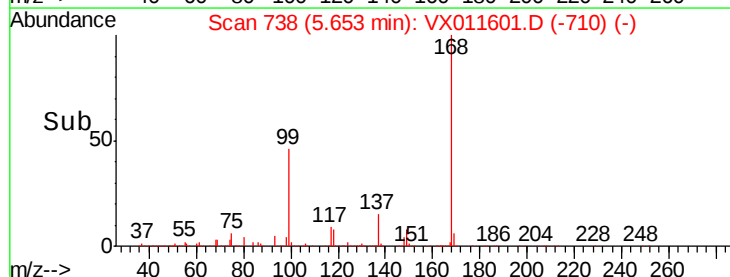
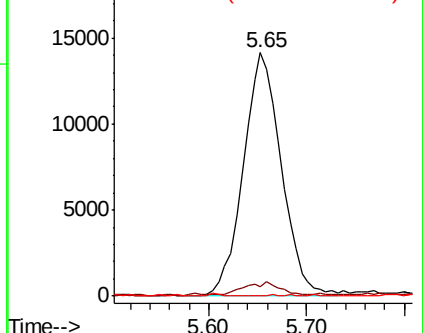
121 0.0 24.8 37.2#

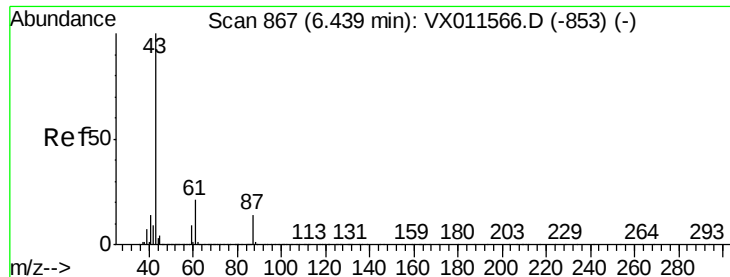


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 8.260 ug/l

RT: 6.44 min Scan# 867

Delta R.T. -0.00 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

Instrument :

MSVOA_X

ClientSampleId :

2S-G1-(0)

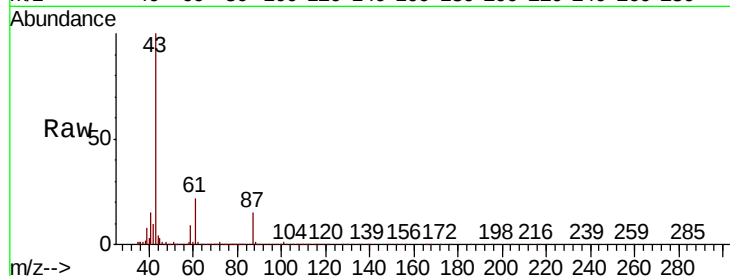
Tgt Ion: 43 Resp: 80782

Ion Ratio Lower Upper

43 100

61 19.5 16.6 24.8

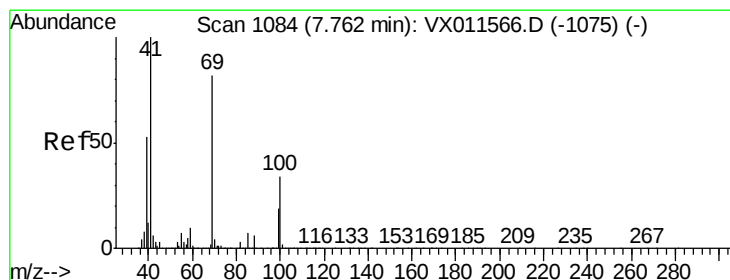
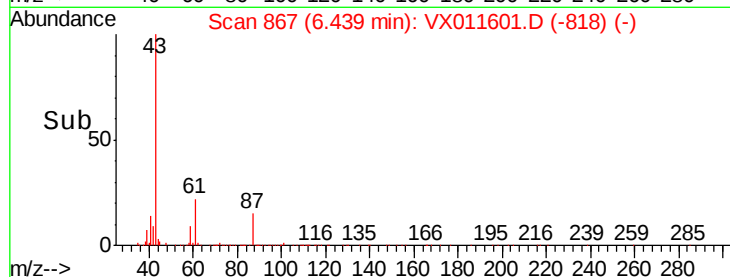
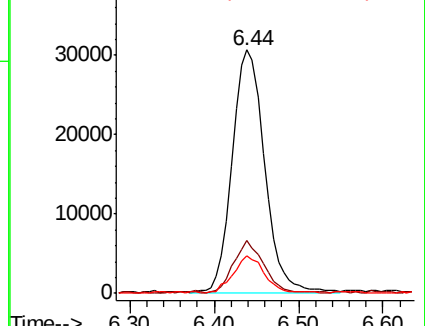
87 13.7 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.104 ug/l

RT: 7.67 min Scan# 1069

Delta R.T. -0.09 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

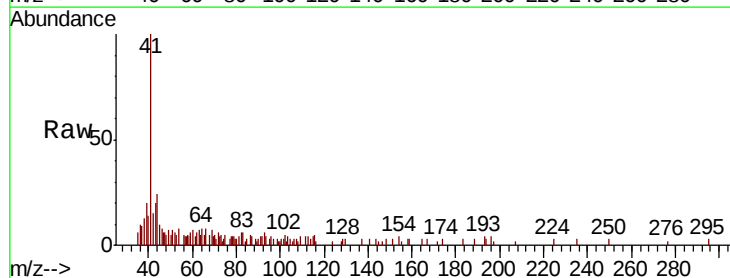
Tgt Ion: 41 Resp: 5349

Ion Ratio Lower Upper

41 100

69 5.6 67.9 101.9#

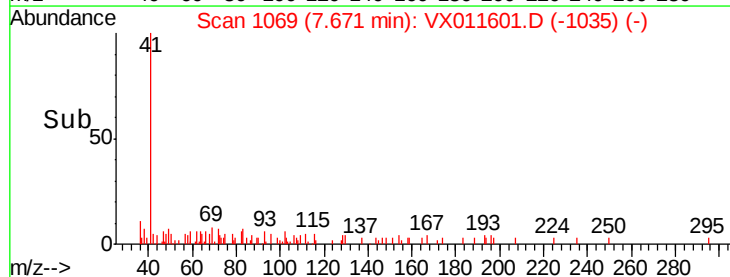
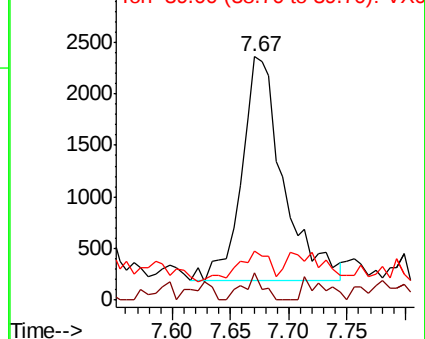
39 0.0 41.6 62.4#

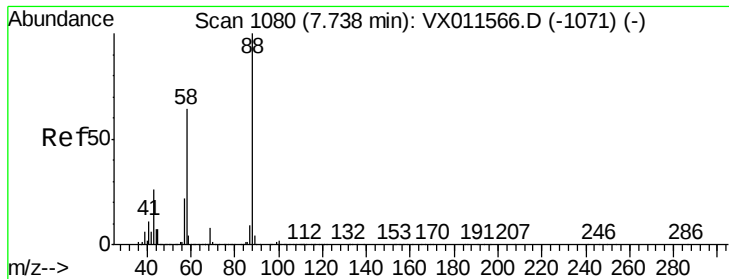


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 0.924 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

Instrument :

MSVOA_X

ClientSampleId :

2S-G1-(0)

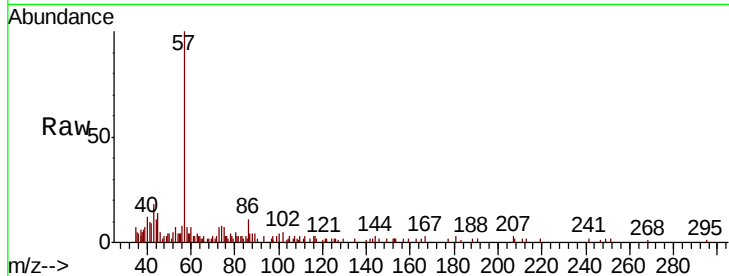
Tgt Ion: 88 Resp: 119

Ion Ratio Lower Upper

88 100

43 0.0 23.4 35.0#

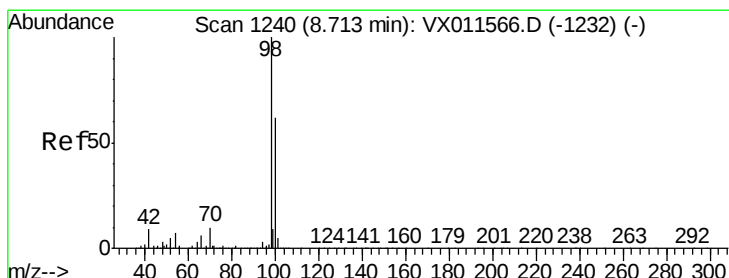
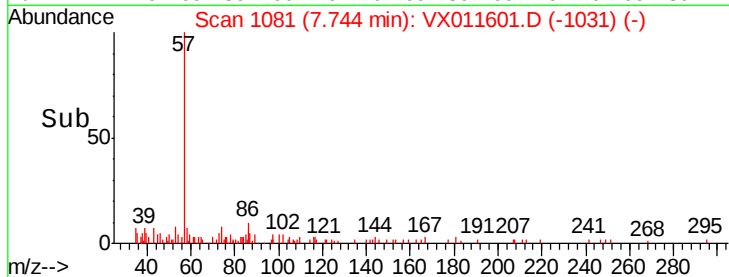
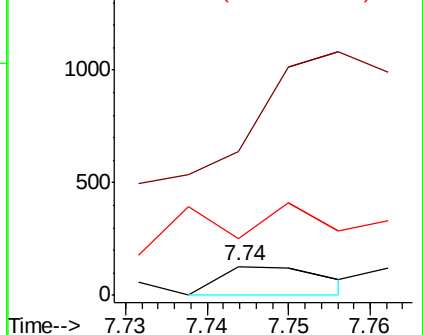
58 189.9 54.3 81.5#



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: 55.621 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011601.D

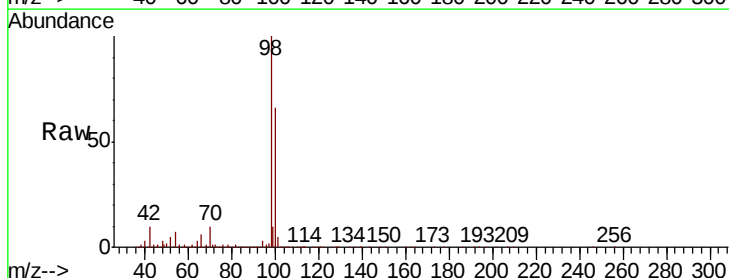
Acq: 17 Aug 2019 00:14

Tgt Ion: 98 Resp: 722331

Ion Ratio Lower Upper

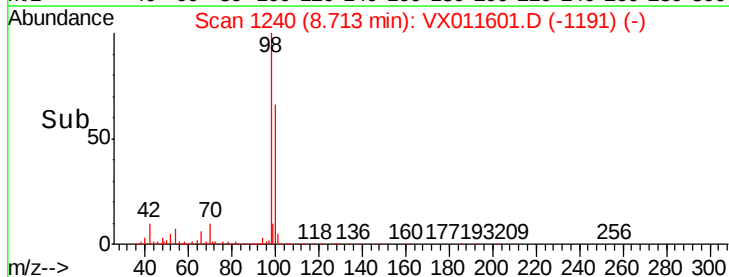
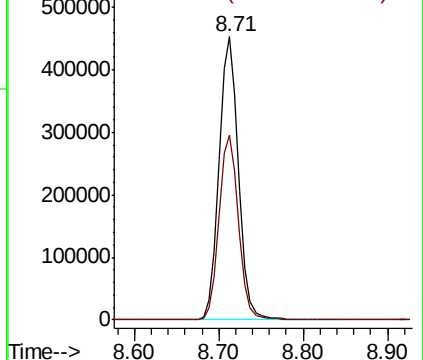
98 100

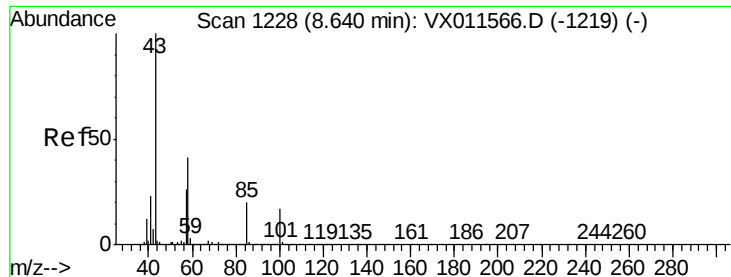
100 65.6 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

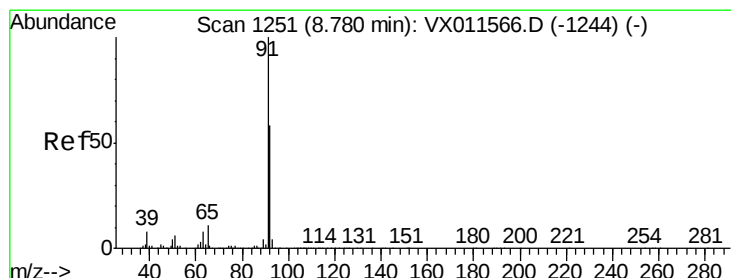
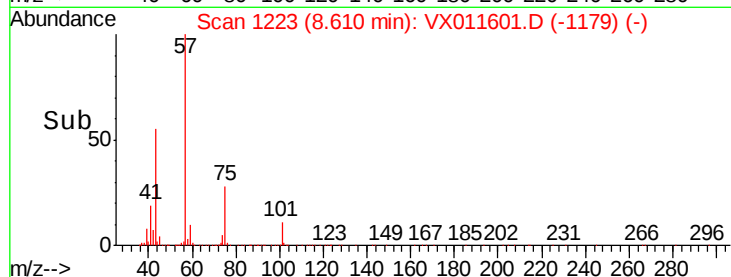
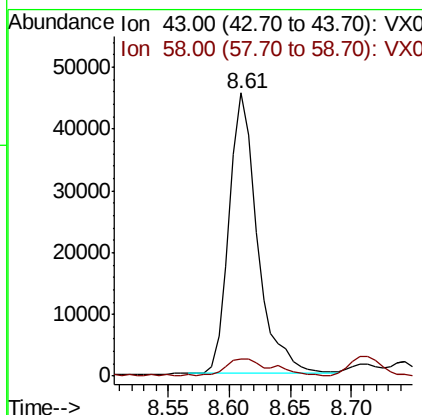
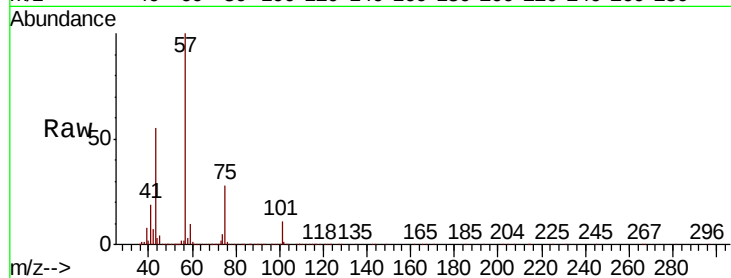




#51
 4-Methyl-2-Pentanone
 Concen: 11.411 ug/l
 RT: 8.61 min Scan# 1223
 Delta R.T. -0.03 min
 Lab File: VX011601.D
 Acq: 17 Aug 2019 00:14

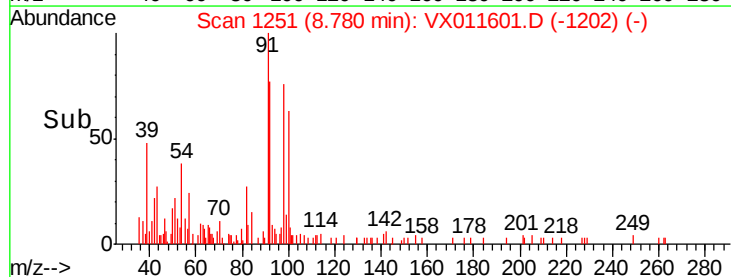
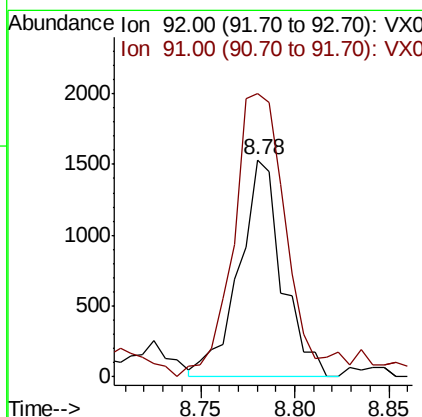
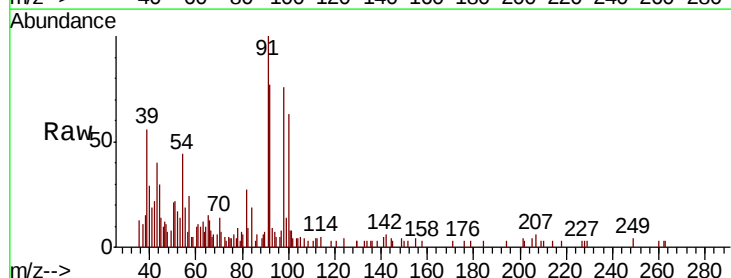
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-G1-(0)

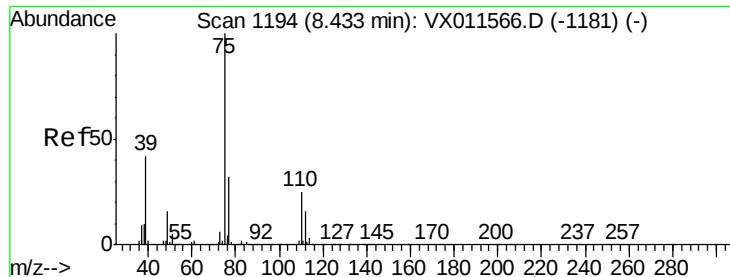
Tgt Ion: 43 Resp: 73046
 Ion Ratio Lower Upper
 43 100
 58 10.4 31.8 47.6#



#52
 Toluene
 Concen: 0.225 ug/l
 RT: 8.78 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VX011601.D
 Acq: 17 Aug 2019 00:14

Tgt Ion: 92 Resp: 2426
 Ion Ratio Lower Upper
 92 100
 91 156.8 138.0 207.0





#54

cis-1,3-Dichloropropene

Concen: 5.581 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

Instrument :

MSVOA_X

ClientSampleId :

2S-G1-(0)

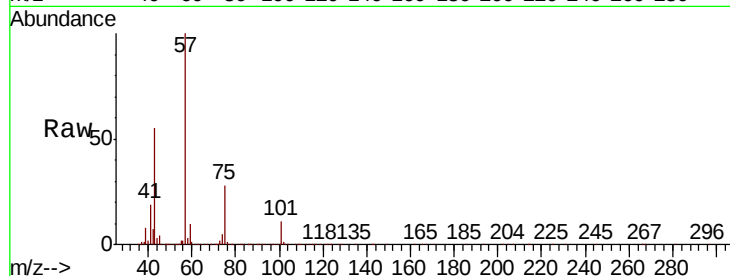
Tgt Ion: 75 Resp: 35710

Ion Ratio Lower Upper

75 100

77 0.9 25.5 38.3#

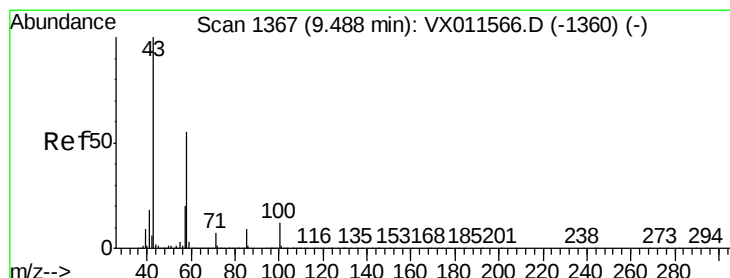
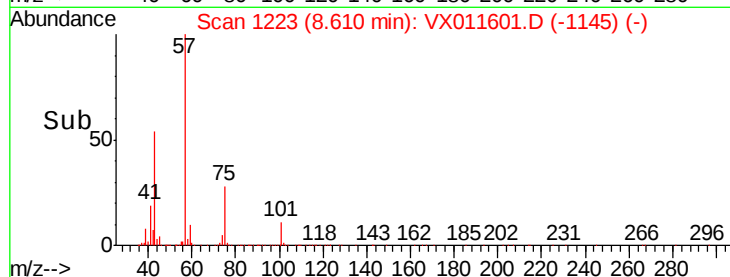
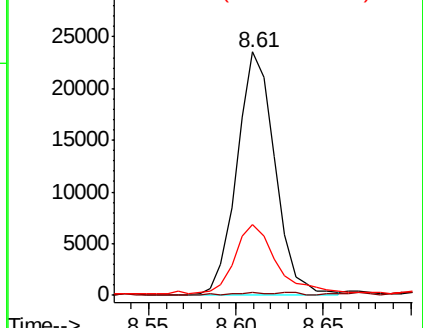
39 28.6 33.6 50.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 17.665 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011601.D

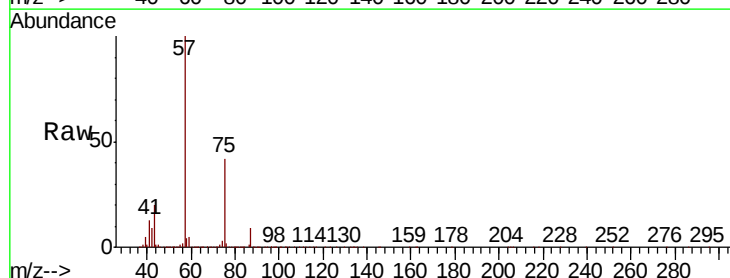
Acq: 17 Aug 2019 00:14

Tgt Ion: 43 Resp: 87201

Ion Ratio Lower Upper

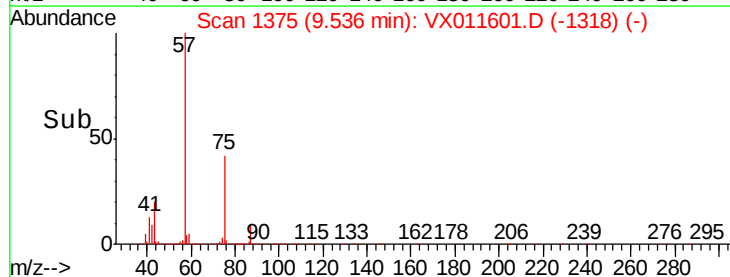
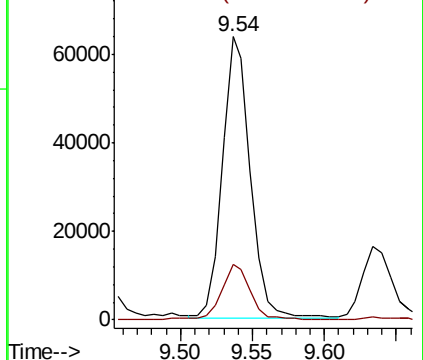
43 100

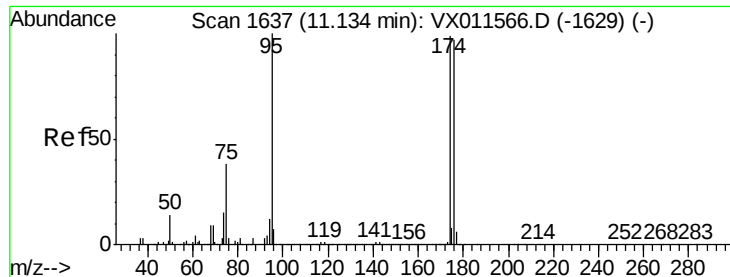
58 21.1 27.5 82.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

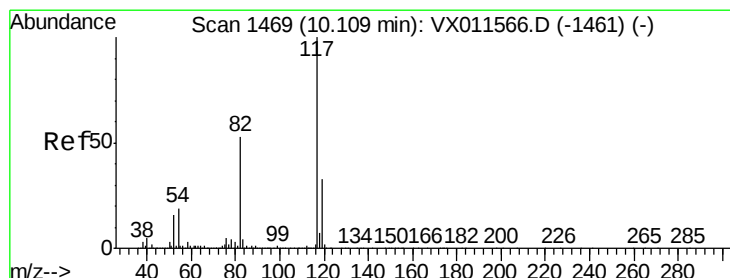
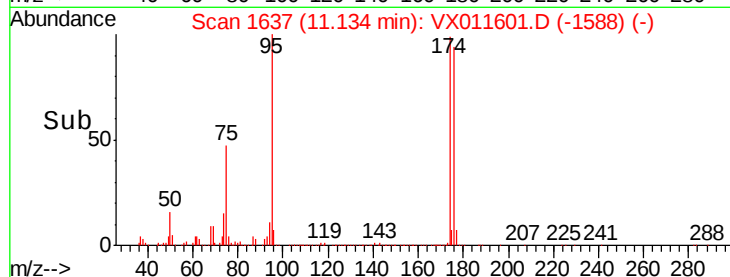
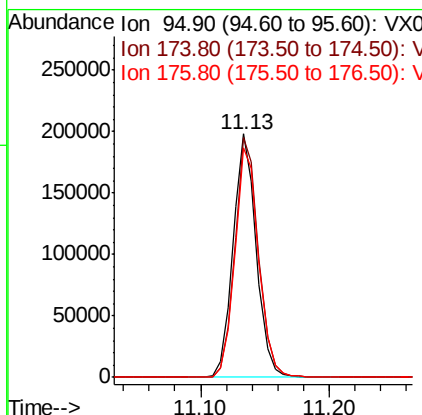
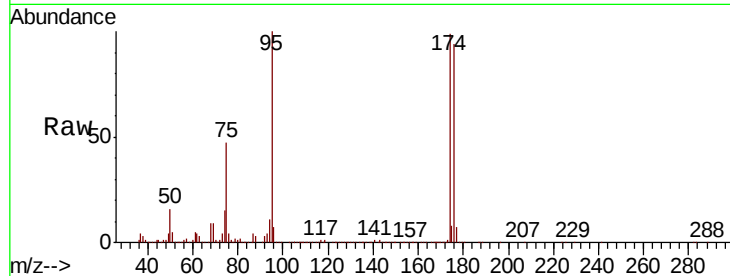




#62
4-Bromofluorobenzene
Concen: 45.314 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011601.D
Acq: 17 Aug 2019 00:14

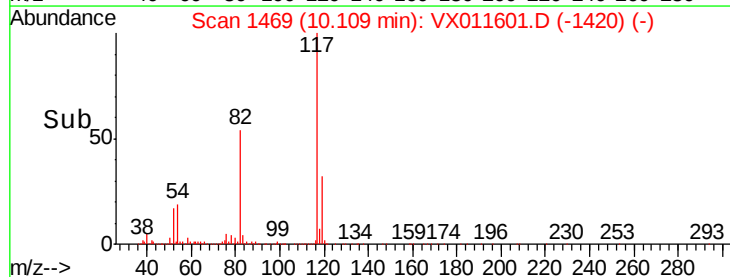
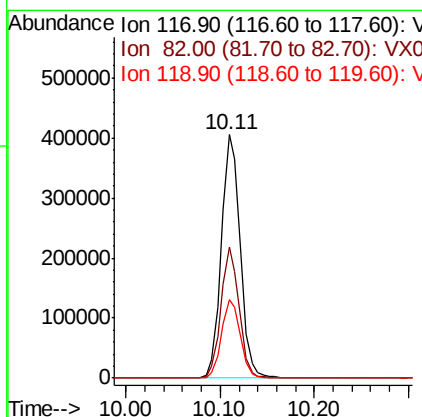
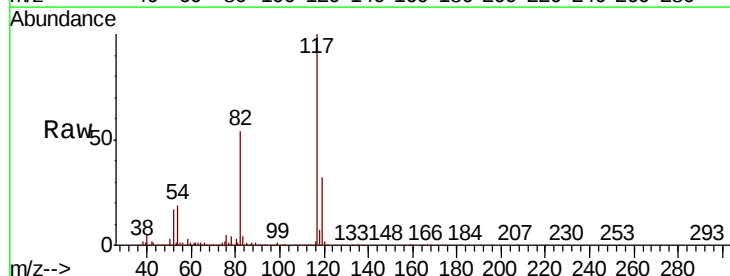
Instrument :
MSVOA_X
ClientSampleId :
2S-G1-(0)

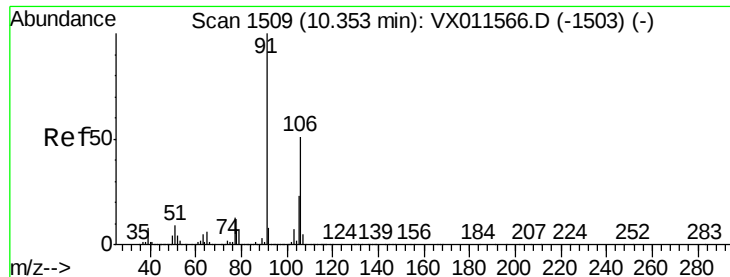
Tgt Ion: 95 Resp: 248384
Ion Ratio Lower Upper
95 100
174 100.1 0.0 200.6
176 96.6 0.0 196.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011601.D
Acq: 17 Aug 2019 00:14

Tgt Ion: 117 Resp: 559426
Ion Ratio Lower Upper
117 100
82 53.7 42.0 63.0
119 32.1 26.5 39.7

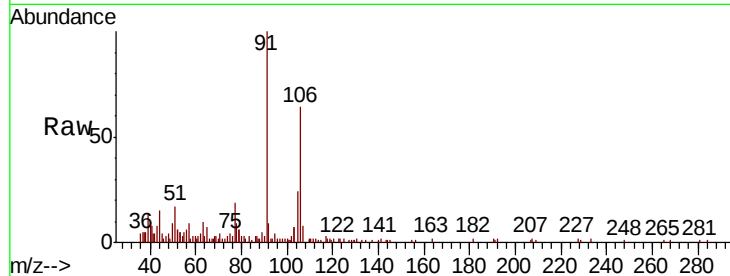




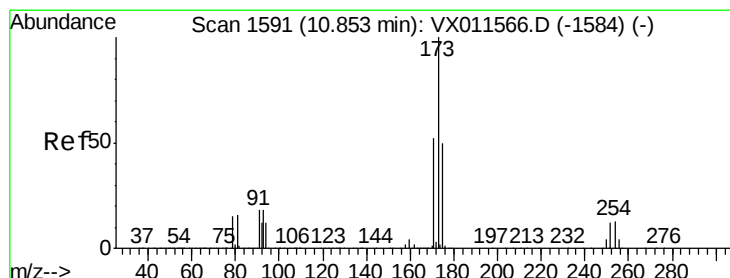
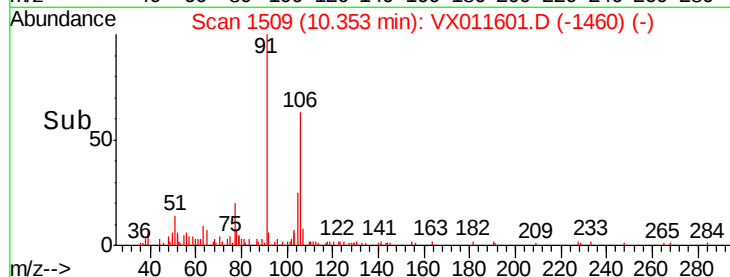
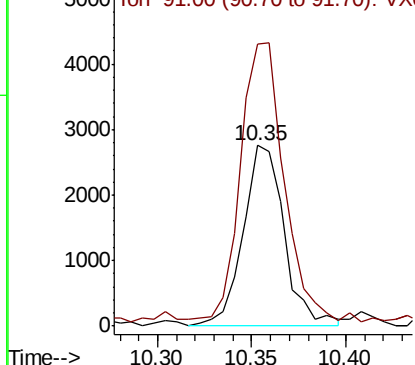
#68
m/p-Xylenes
Concen: 0.549 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.00 min
Lab File: VX011601.D
Acq: 17 Aug 2019 00:14

Instrument :
MSVOA_X
ClientSampleId :
2S-G1-(0)

Tgt Ion:106 Resp: 4194
Ion Ratio Lower Upper
106 100
91 168.9 156.0 234.0

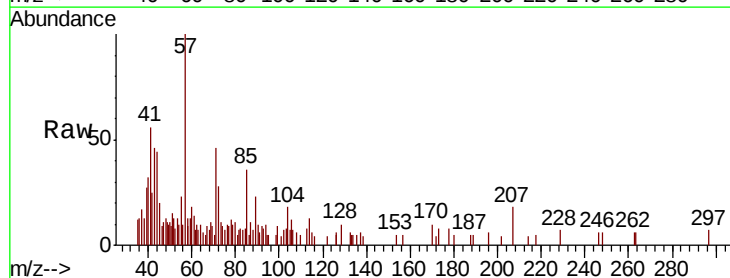


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

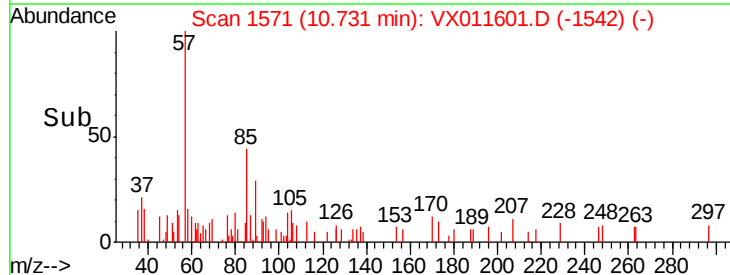
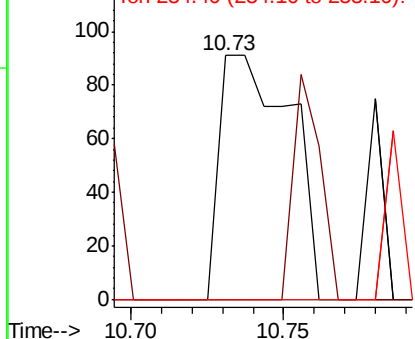


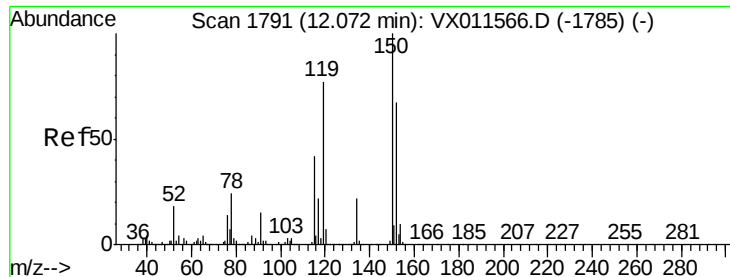
#71
Bromoform
Concen: 3.323 ug/l
RT: 10.73 min Scan# 1571
Delta R.T. -0.12 min
Lab File: VX011601.D
Acq: 17 Aug 2019 00:14

Tgt Ion:173 Resp: 146
Ion Ratio Lower Upper
173 100
175 0.0 24.9 74.7#
254 0.0 0.1 0.1#



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: 12.07 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

Instrument :

MSVOA_X

ClientSampleId :

2S-G1-(0)

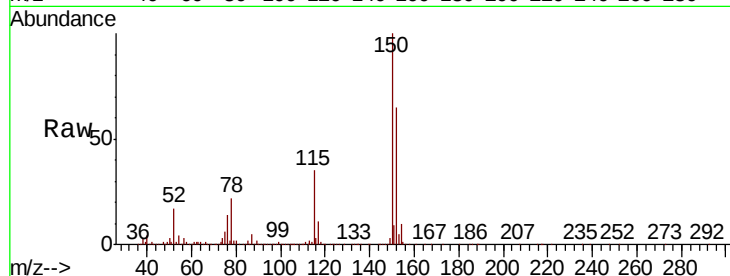
Tgt Ion:152 Resp: 269111

Ion Ratio Lower Upper

152 100

115 52.5 37.3 111.9

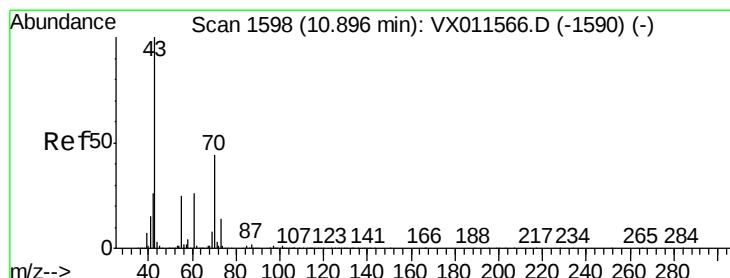
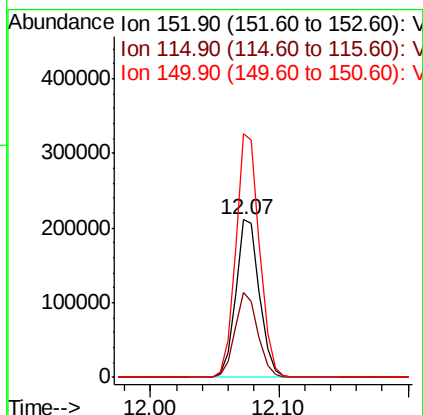
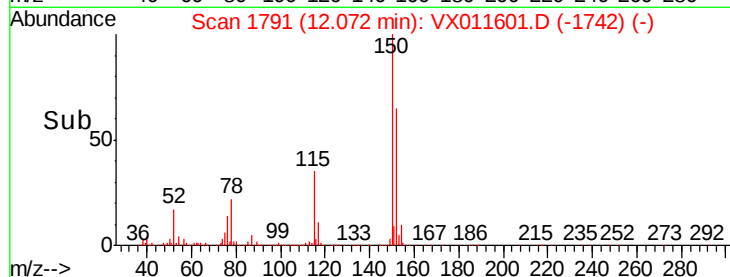
150 154.4 0.0 346.2



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



#74

N-amil acetate

Concen: 0.536 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

Tgt Ion: 43 Resp: 3977

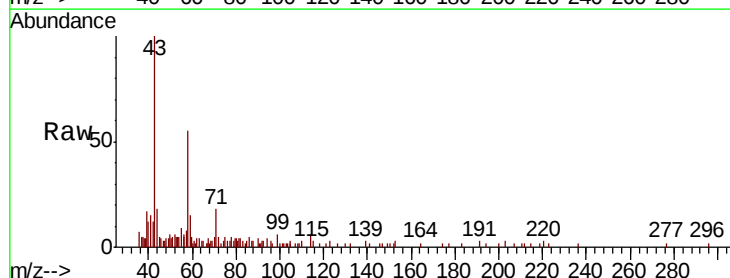
Ion Ratio Lower Upper

43 100

70 0.0 34.7 52.1#

55 6.8 19.6 29.4#

61 0.0 19.9 29.9#

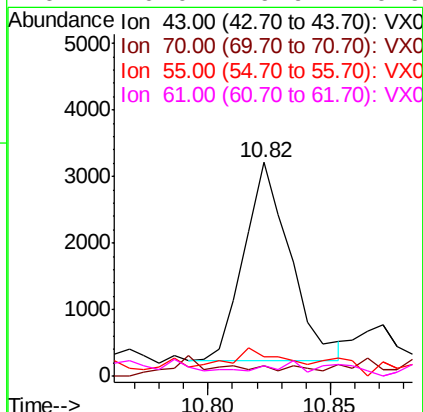
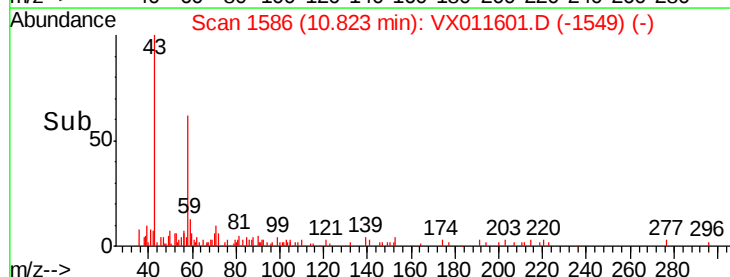


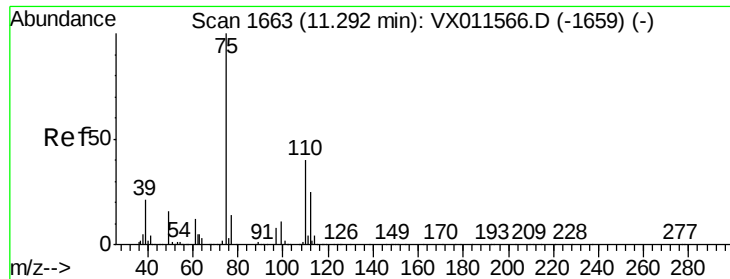
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

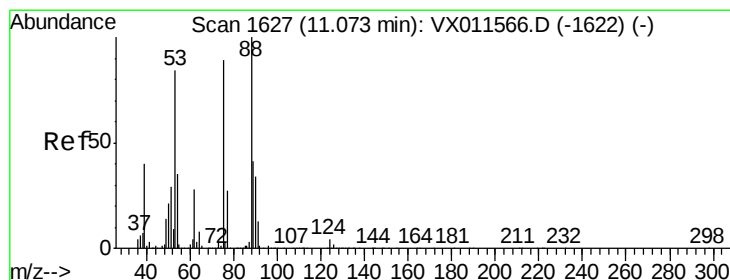
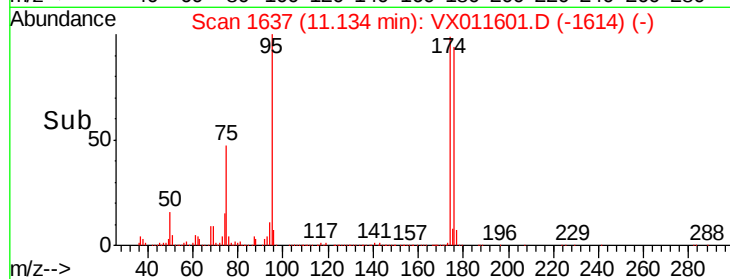
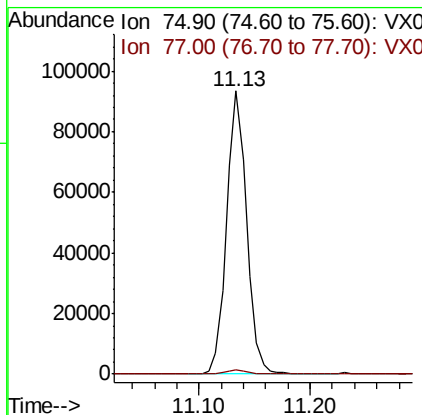
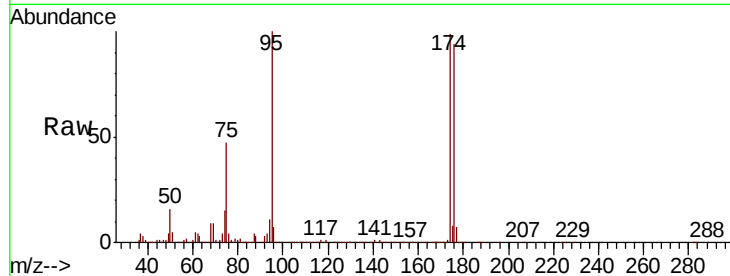




#76
 1,2,3-Trichloropropane
 Concen: 22.761 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011601.D
 Acq: 17 Aug 2019 00:14

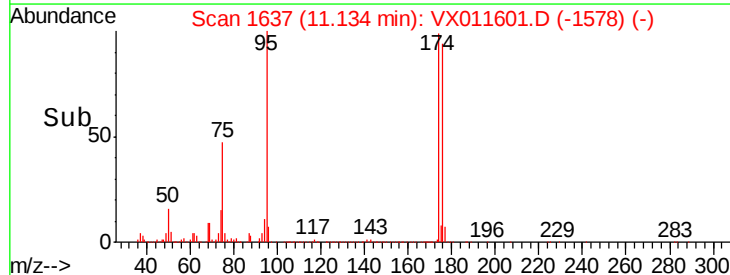
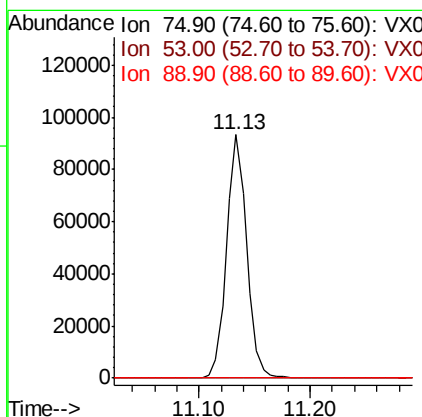
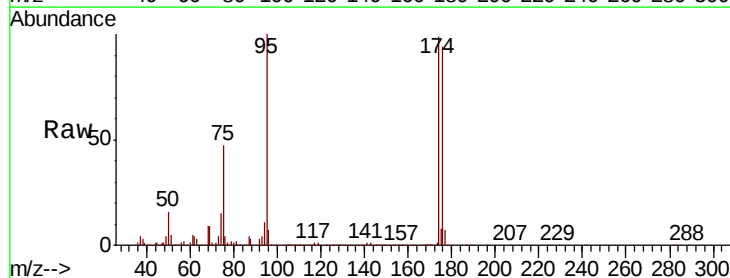
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-G1-(0)

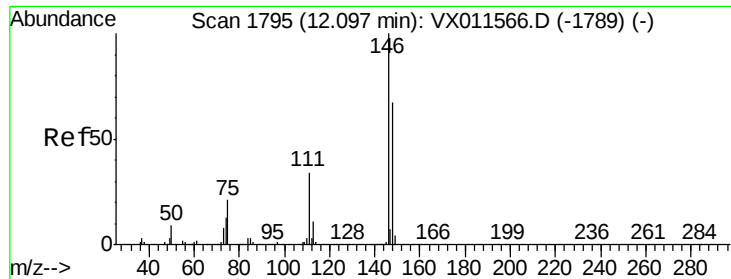
Tgt Ion: 75 Resp: 116150
 Ion Ratio Lower Upper
 75 100
 77 1.5 20.9 62.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 60.613 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011601.D
 Acq: 17 Aug 2019 00:14

Tgt Ion: 75 Resp: 116150
 Ion Ratio Lower Upper
 75 100
 53 0.1 77.4 116.0#
 89 0.2 37.3 55.9#





#88

1,4-Dichlorobenzene

Concen: 0.206 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX011601.D

Acq: 17 Aug 2019 00:14

Instrument :

MSVOA_X

ClientSampleId :

2S-G1-(0)

Tgt Ion:146 Resp: 1865

Ion Ratio Lower Upper

146 100

111 0.0 17.9 53.7#

148 113.1 32.5 97.5#

