

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011020\
 Data File : VX014571.D
 Acq On : 11 Jan 2020 05:32
 Operator : JC/SP
 Sample : L1060-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-1

Quant Time: Jan 11 06:00:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	483361	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	741292	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	667488	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	298797	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	269526	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
35) Dibromofluoromethane	5.49	113	220533	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
50) Toluene-d8	8.71	98	879479	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
62) 4-Bromofluorobenzene	11.13	95	291968	45.67	ug/l	0.00
Spiked Amount			Recovery	=	91.34%	

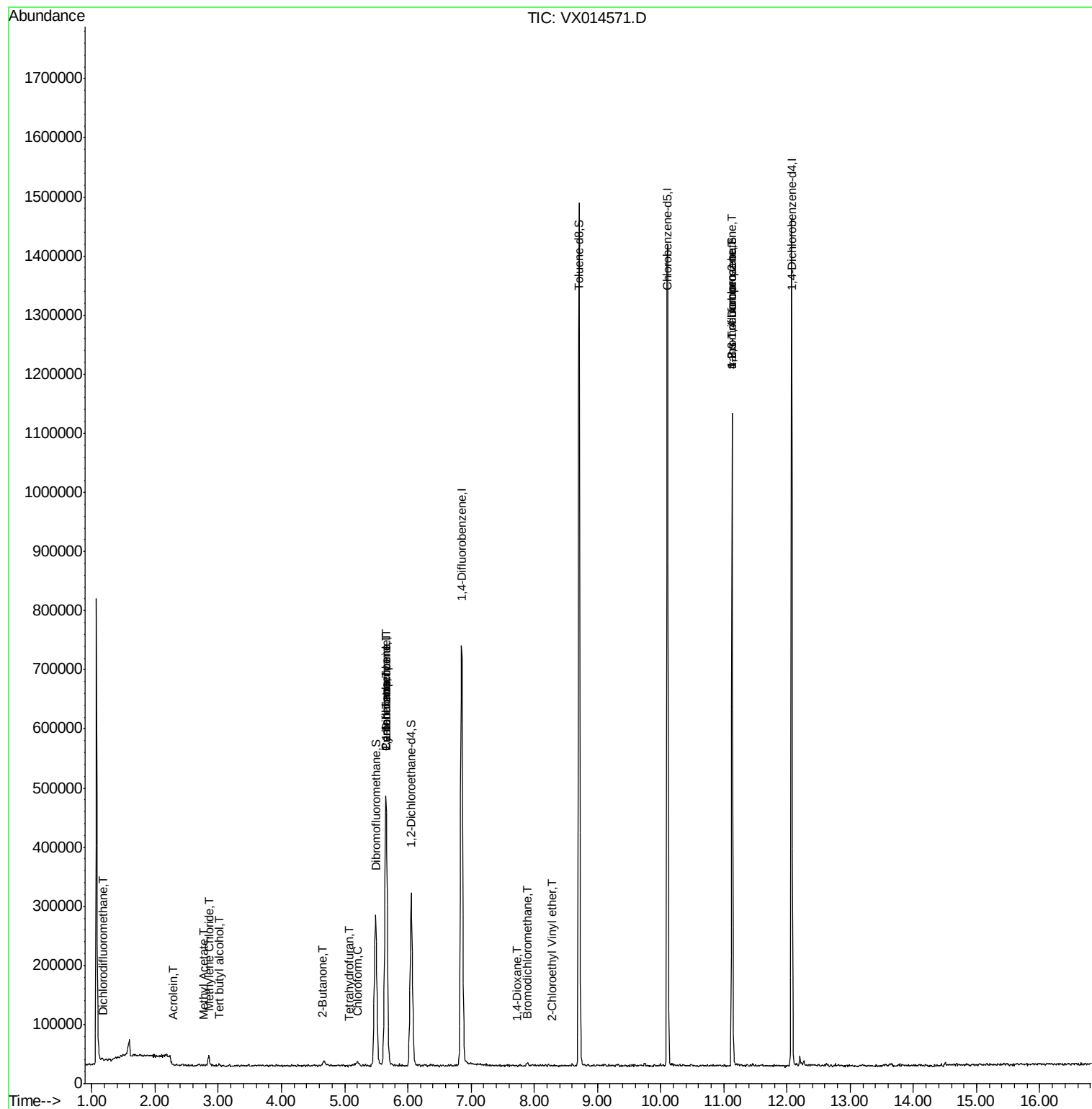
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	377	0.315	ug/l #	1
6) Chloroethane	1.73	64	917	Below Cal		98
11) Tert butyl alcohol	3.01	59	1646	1.461	ug/l #	84
13) Acrolein	2.28	56	429	0.475	ug/l #	52
16) Acetone	2.44	43	3421	Below Cal	#	78
18) Methyl Acetate	2.77	43	2799	0.361	ug/l #	74
20) Methylene Chloride	2.85	84	9236	1.701	ug/l	93
25) 2-Butanone	4.65	43	1004	0.249	ug/l #	71
29) Tetrahydrofuran	5.07	42	627	0.263	ug/l	96
30) Chloroform	5.20	83	8671	1.007	ug/l	94
31) Cyclohexane	5.65	56	8541	1.036	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	33211	4.764	ug/l #	52
38) Carbon Tetrachloride	5.65	117	43058	6.712	ug/l #	18
47) Bromodichloromethane	7.89	83	2911	0.435	ug/l #	67
49) 1,4-Dioxane	7.73	88	146	1.176	ug/l #	23
58) 2-Chloroethyl Vinyl ether	8.29	63	777	0.280	ug/l #	79
76) 1,2,3-Trichloropropane	11.13	75	144919	23.441	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	144919	61.975	ug/l #	12
88) 1,4-Dichlorobenzene	12.01	146	640	Below Cal		74
93) 1,2,4-Trichlorobenzene	13.64	180	450	Below Cal		99
96) 1,2,3-Trichlorobenzene	14.03	180	226	Below Cal	#	36

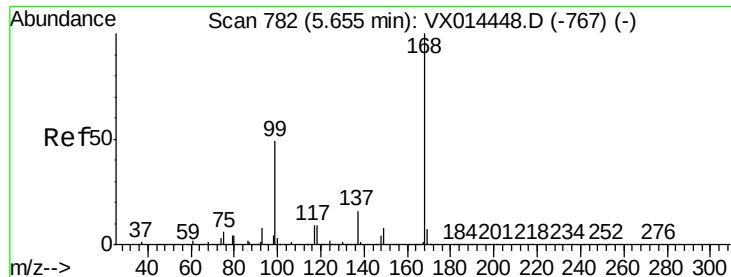
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

Instrument :

MSVOA_X

ClientSampleId :

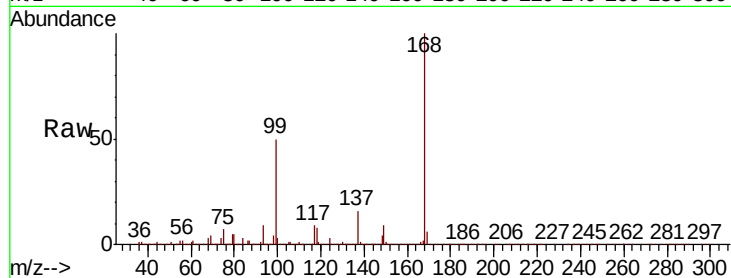
TP-1

Tot Ion:168 Resp: 483361

Ion Ratio Lower Upper

168 100

99 50.0 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

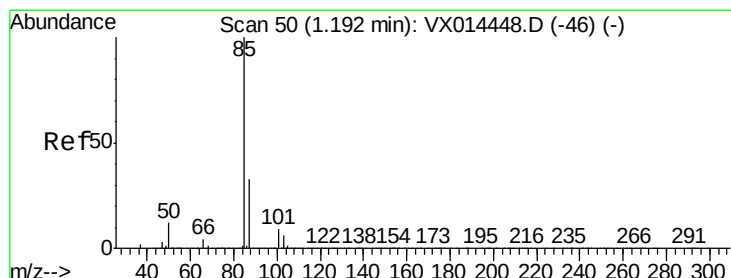
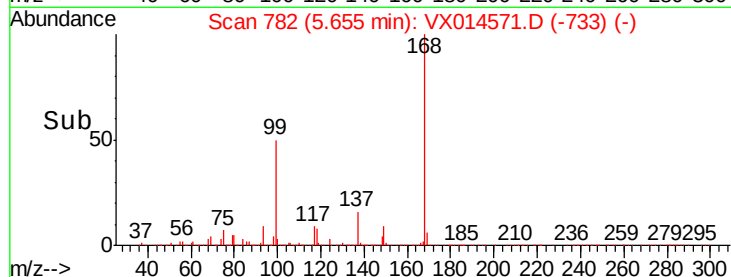
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.315 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX014571.D

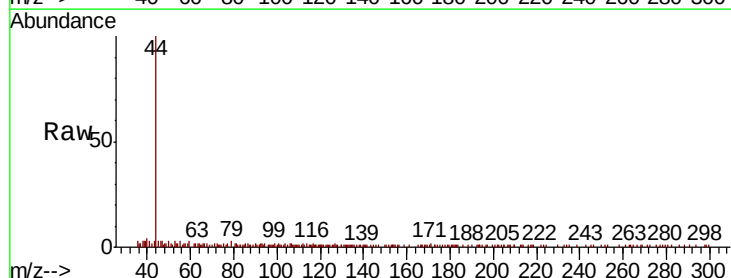
Acq: 11 Jan 2020 05:32

Tgt Ion: 85 Resp: 377

Ion Ratio Lower Upper

85 100

87 91.1 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

400

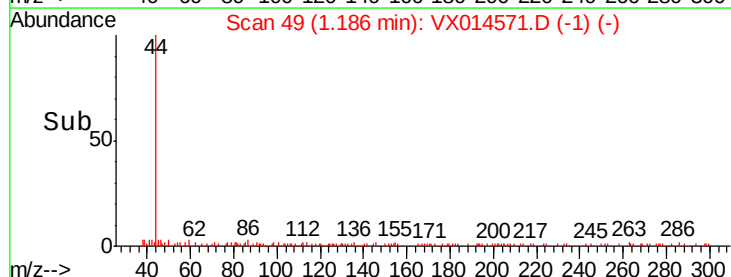
300

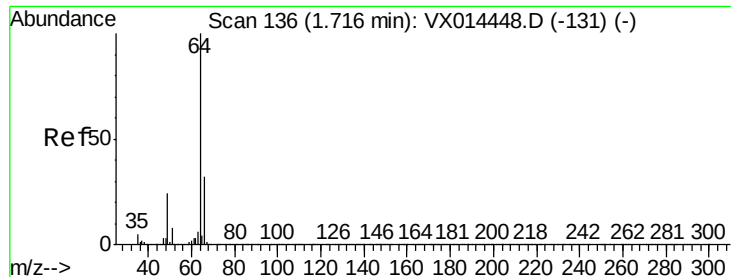
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 138

Delta R.T. 0.01 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

Instrument :

MSVOA_X

ClientSampled :

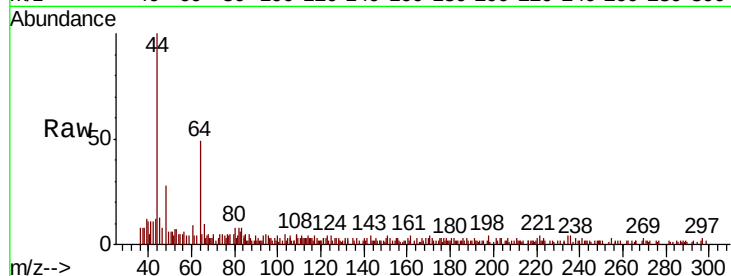
TP-1

Tot Ion: 64 Resp: 917

Ion Ratio Lower Upper

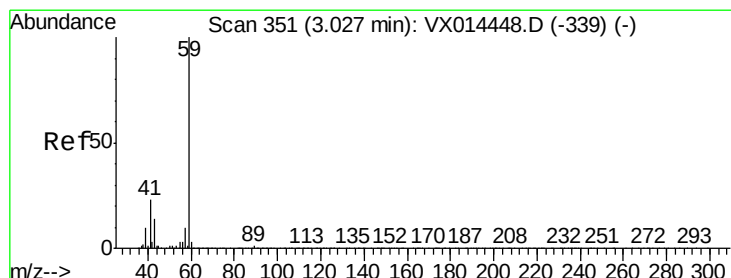
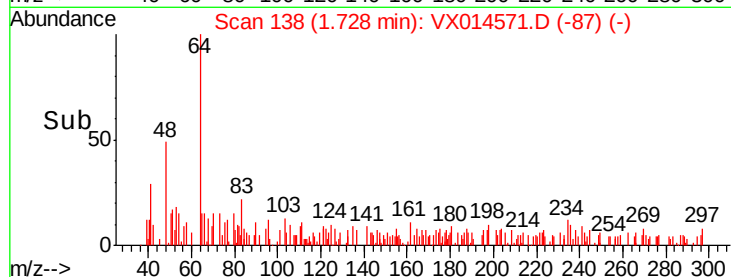
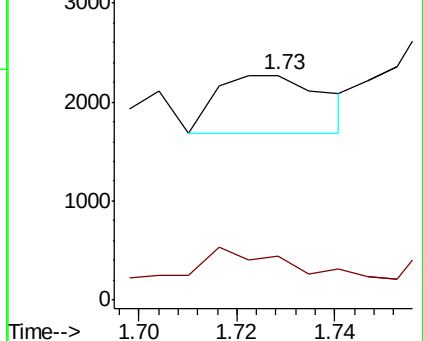
64 100

66 32.8 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 1.461 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX014571.D

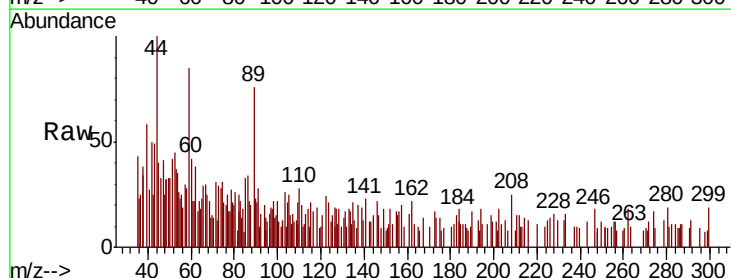
Acq: 11 Jan 2020 05:32

Tgt Ion: 59 Resp: 1646

Ion Ratio Lower Upper

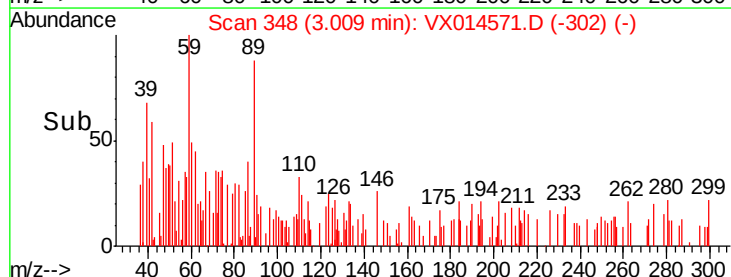
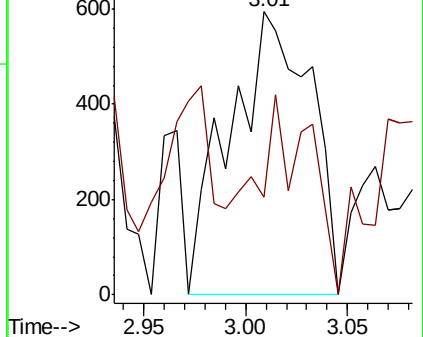
59 100

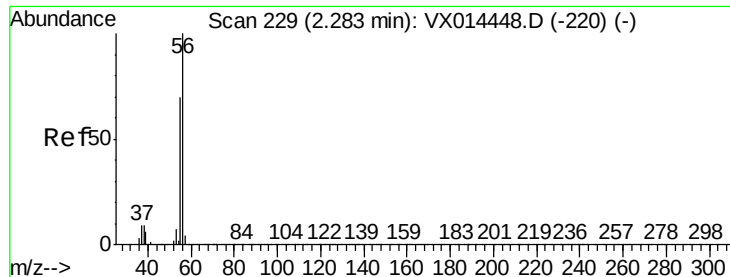
57 16.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.475 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

Instrument :

MSVOA_X

ClientSampled :

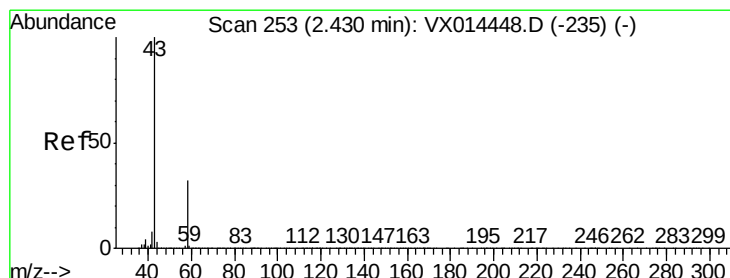
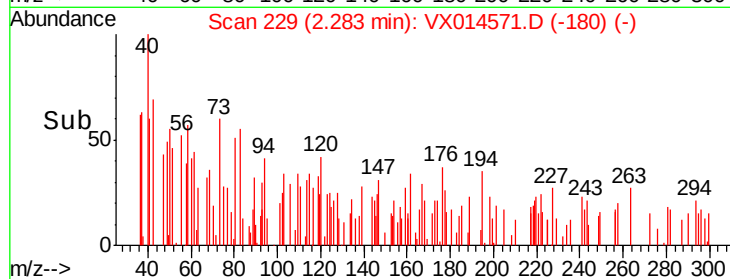
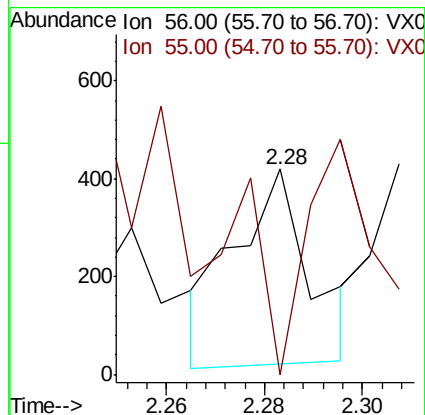
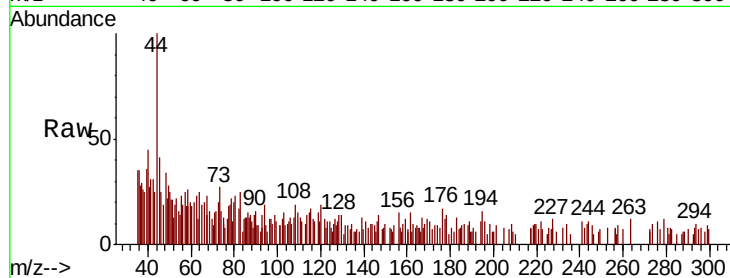
TP-1

Tot Ion: 56 Resp: 429

Ion Ratio Lower Upper

56 100

55 107.5 55.0 82.6#



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX014571.D

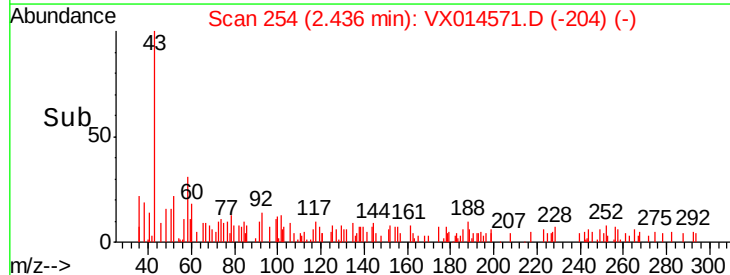
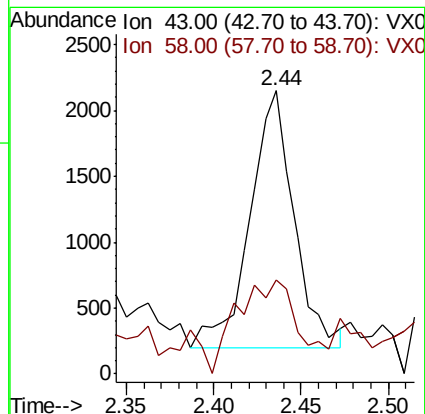
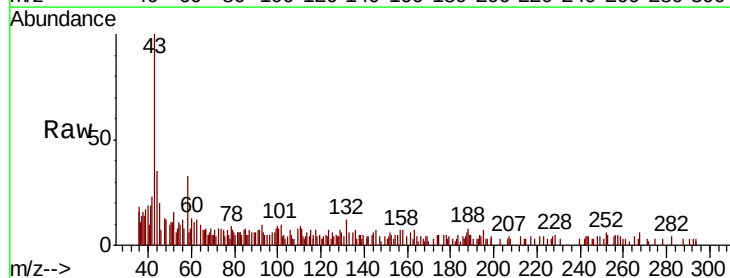
Acq: 11 Jan 2020 05:32

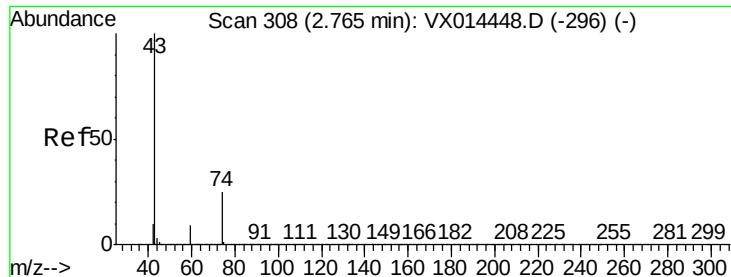
Tgt Ion: 43 Resp: 3421

Ion Ratio Lower Upper

43 100

58 19.6 25.4 38.0#





#18

Methyl Acetate

Concen: 0.361 ug/l

RT: 2.77 min Scan# 309

Delta R.T. 0.01 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

Instrument :

MSVOA_X

ClientSampled :

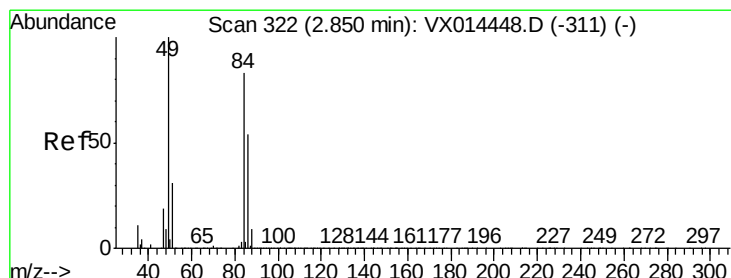
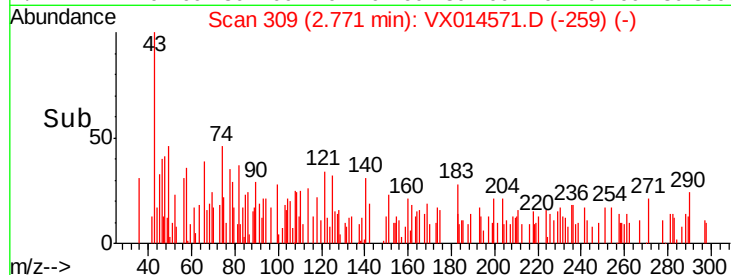
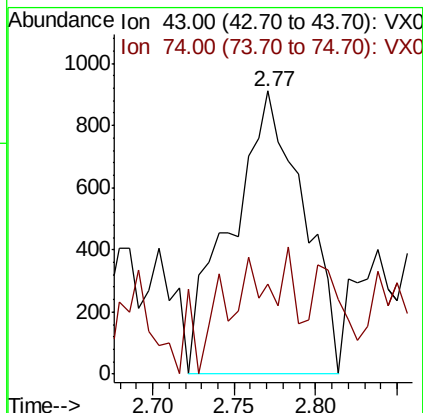
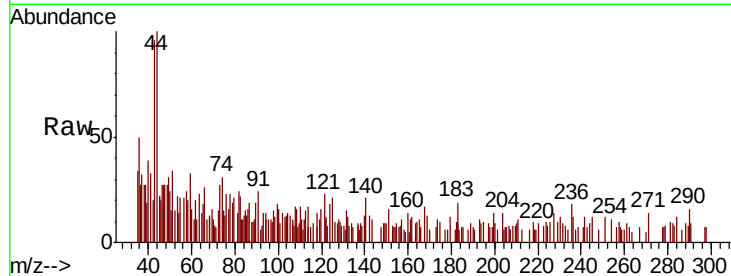
TP-1

Tot Ion: 43 Resp: 2799

Ion Ratio Lower Upper

43 100

74 11.6 19.4 29.2#



#20

Methylene Chloride

Concen: 1.701 ug/l

RT: 2.85 min Scan# 322

Delta R.T. -0.00 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

Tgt Ion: 84 Resp: 9236

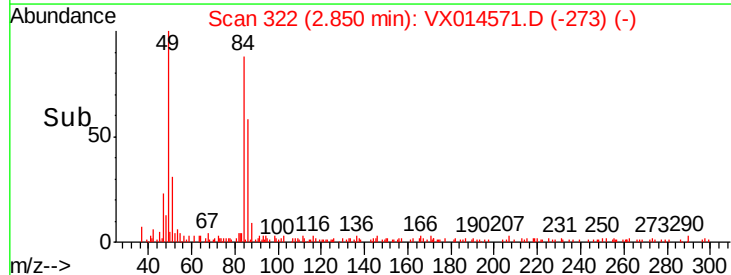
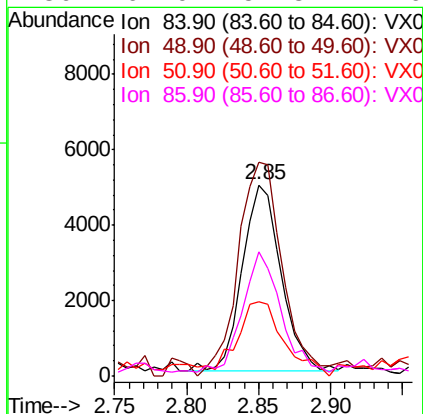
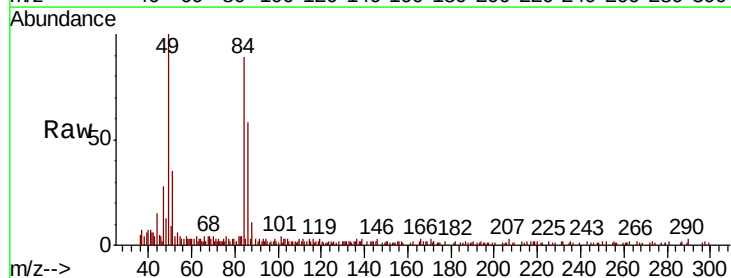
Ion Ratio Lower Upper

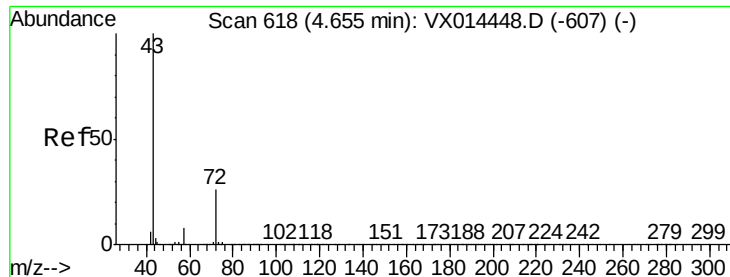
84 100

49 109.0 95.8 143.8

51 34.2 30.2 45.4

86 64.0 51.8 77.6





#25

2-Butanone

Concen: 0.249 ug/l

RT: 4.65 min Scan# 618

Delta R.T. -0.00 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

Instrument :

MSVOA_X

ClientSampled :

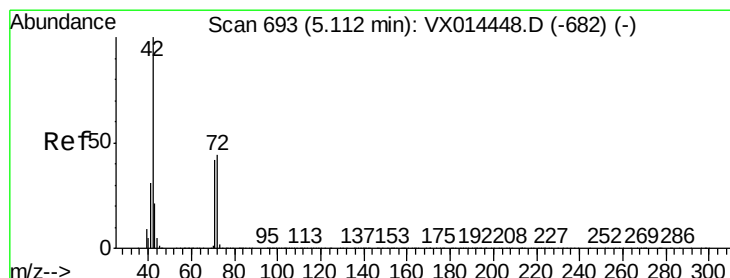
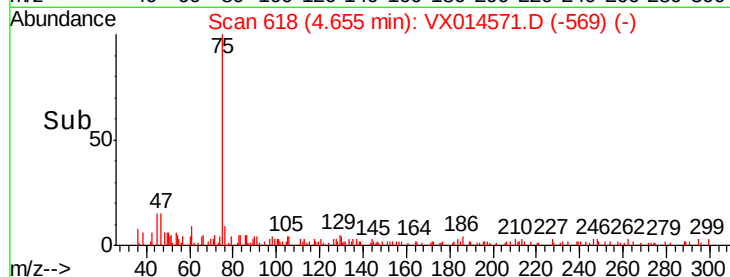
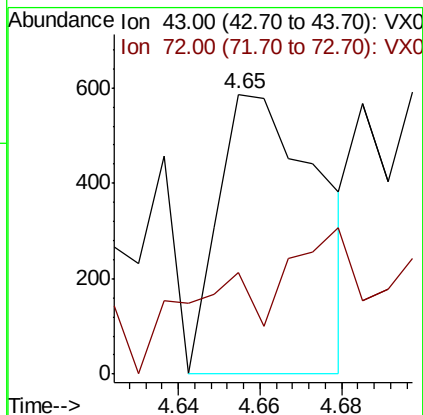
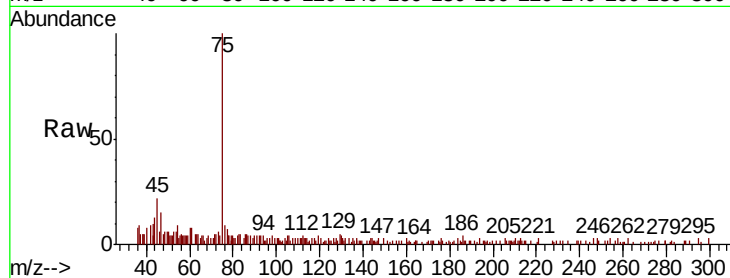
TP-1

Tot Ion: 43 Resp: 1004

Ion Ratio Lower Upper

43 100

72 10.9 20.6 31.0#



#29

Tetrahydrofuran

Concen: 0.263 ug/l

RT: 5.07 min Scan# 686

Delta R.T. -0.04 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

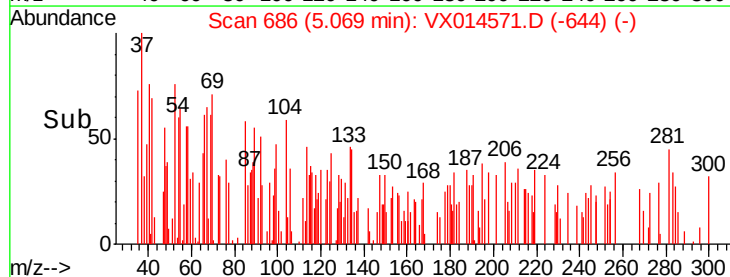
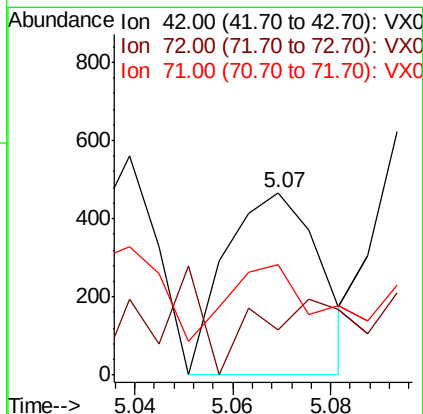
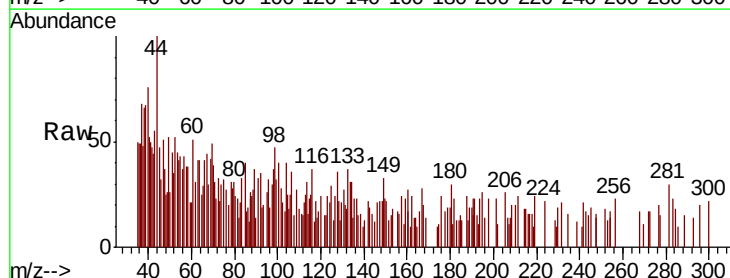
Tgt Ion: 42 Resp: 627

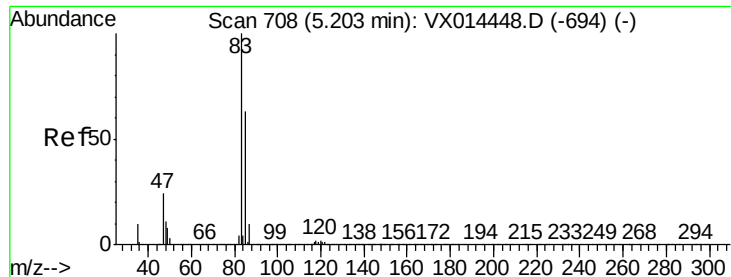
Ion Ratio Lower Upper

42 100

72 44.2 36.2 54.4

71 39.1 34.1 51.1

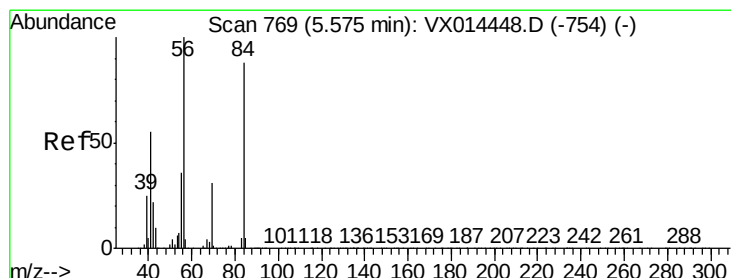
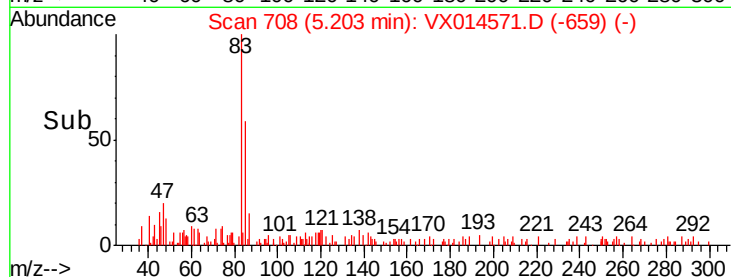
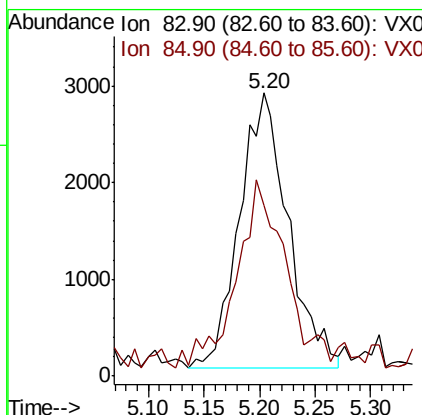
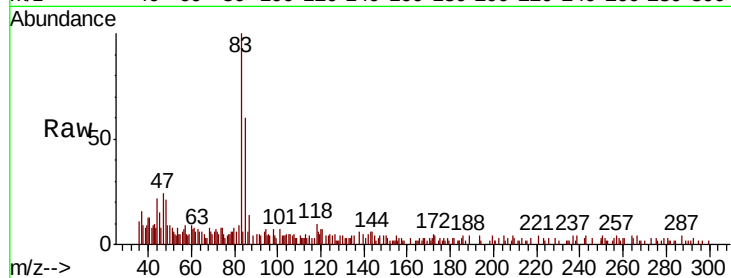




#30
Chloroform
Concen: 1.007 ug/l
RT: 5.20 min Scan# 708
Delta R.T. -0.00 min
Lab File: VX014571.D
Acq: 11 Jan 2020 05:32

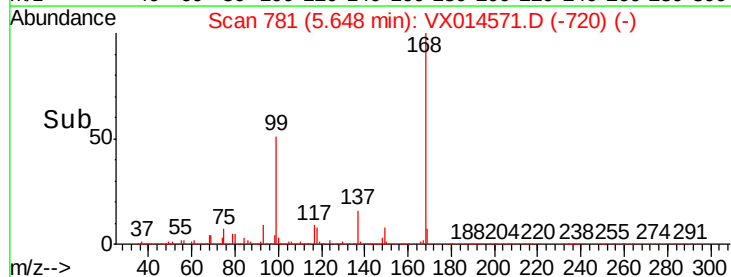
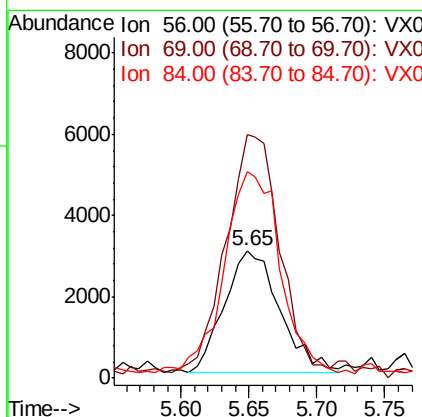
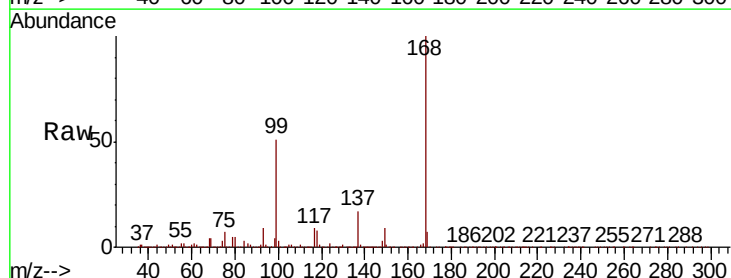
Instrument :
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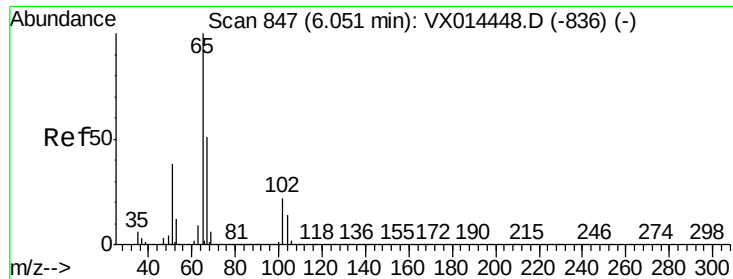
Tot Ion: 83 Resp: 8671
Ion Ratio Lower Upper
83 100
85 58.2 50.6 75.8



#31
Cyclohexane
Concen: 1.036 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.07 min
Lab File: VX014571.D
Acq: 11 Jan 2020 05:32

Tgt Ion: 56 Resp: 8541
Ion Ratio Lower Upper
56 100
69 188.1 24.4 36.6#
84 164.7 70.6 106.0#

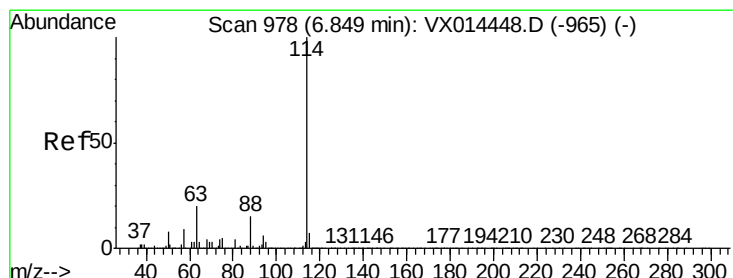
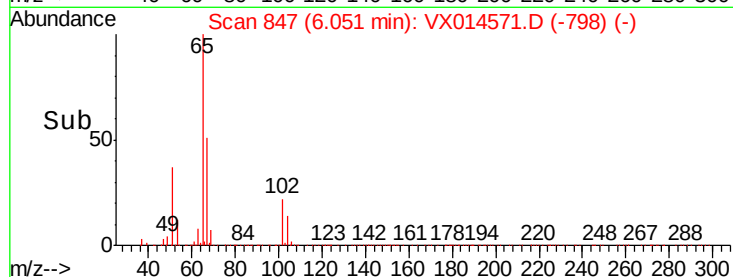
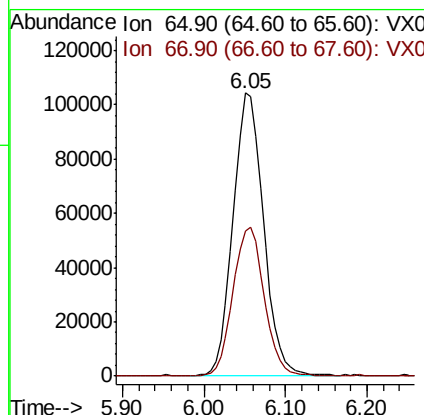
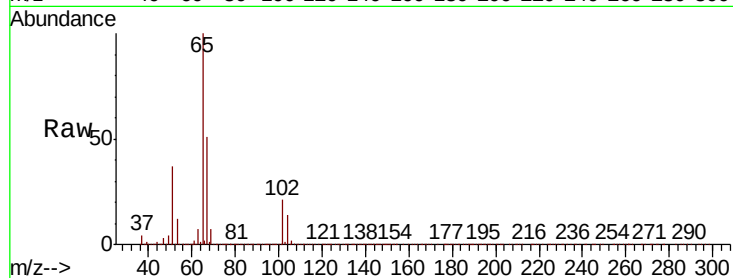




#33
 1,2-Dichloroethane-d4
 Concen: 49.950 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX014571.D
 Acq: 11 Jan 2020 05:32

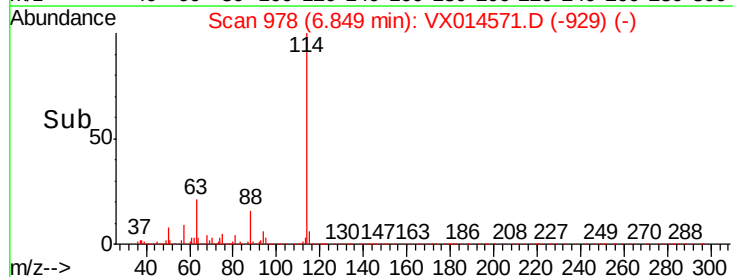
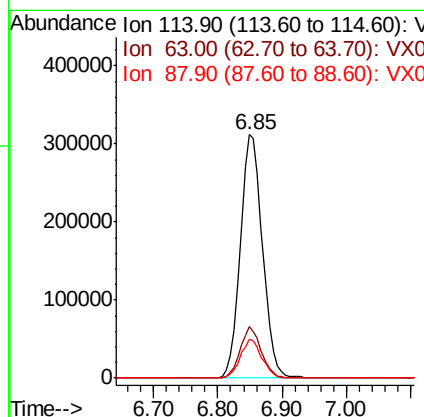
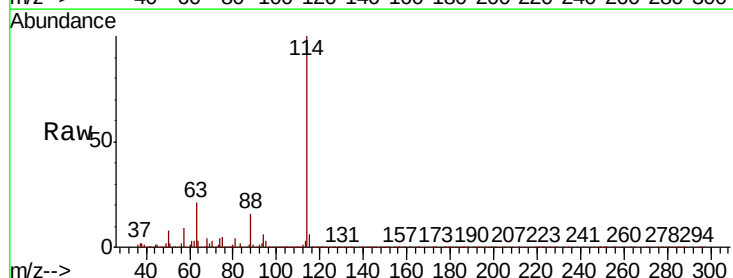
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-1

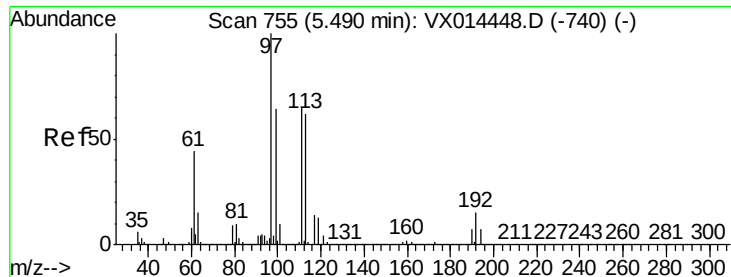
Tot Ion: 65 Resp: 269526
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX014571.D
 Acq: 11 Jan 2020 05:32

Tgt Ion: 114 Resp: 741292
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 39.6
 88 15.6 0.0 30.8

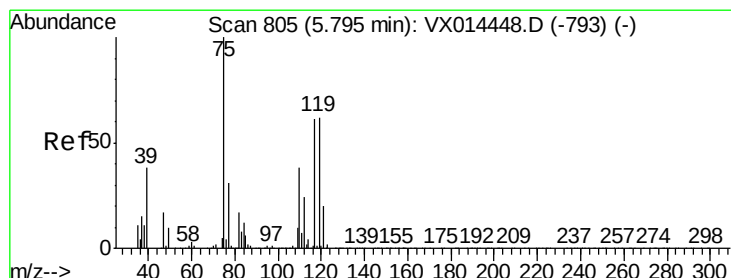
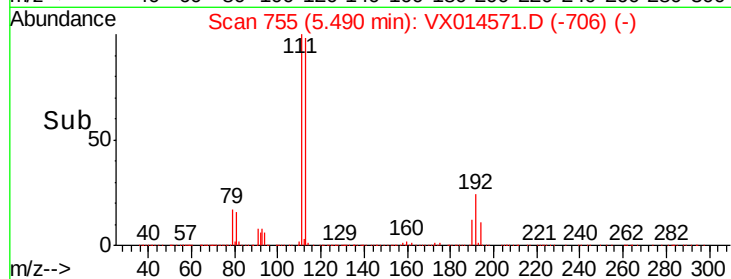
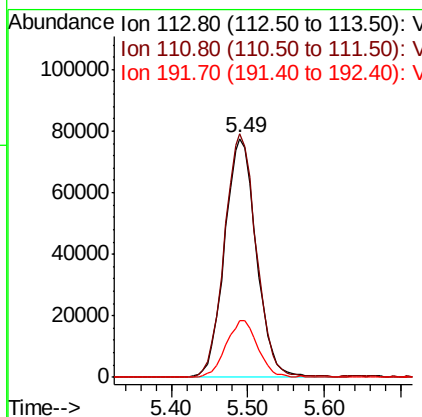
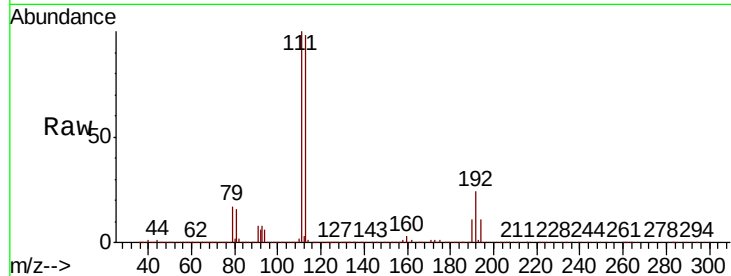




#35
 Dibromofluoromethane
 Concen: 49.145 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX014571.D
 Acq: 11 Jan 2020 05:32

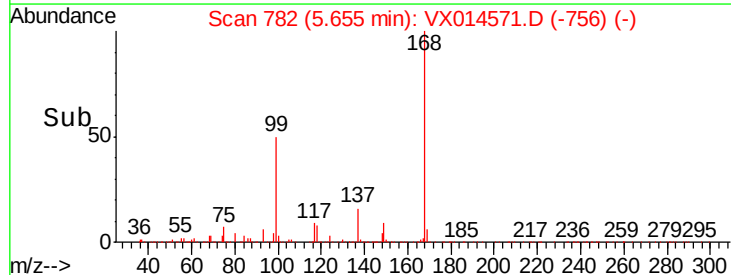
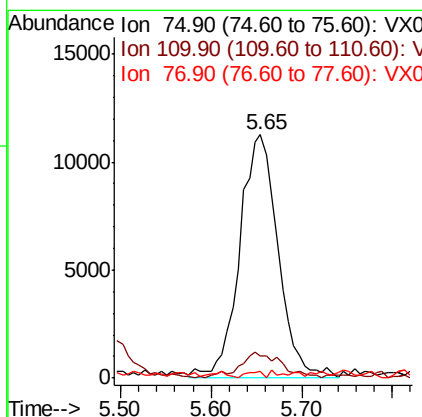
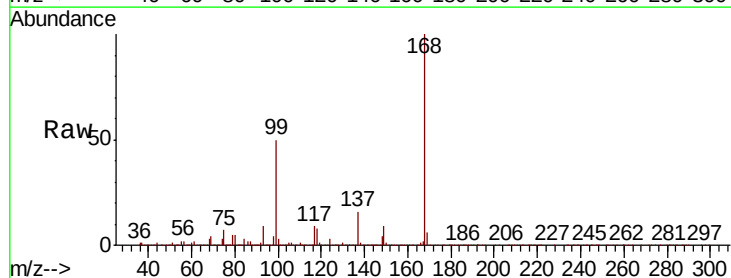
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-1

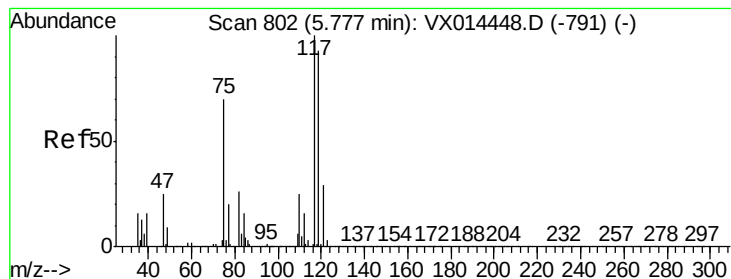
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.5	122.3
192	24.2	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.764 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX014571.D
 Acq: 11 Jan 2020 05:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.4	18.6	55.8#
77	1.1	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.712 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

Instrument :

MSVOA_X

ClientSampleId :

TP-1

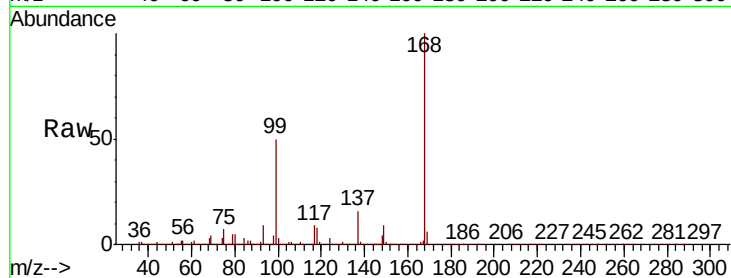
Tot Ion:117 Resp: 43058

Ion Ratio Lower Upper

117 100

119 4.9 73.8 110.8#

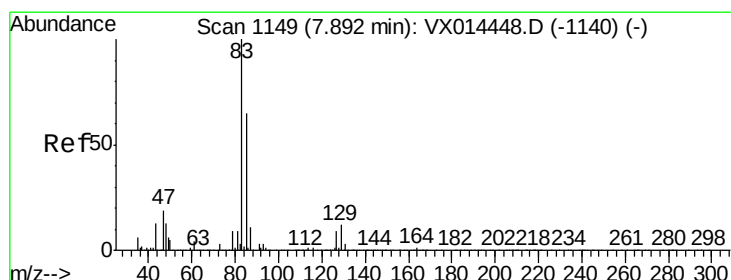
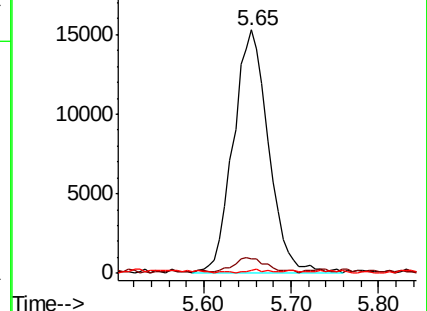
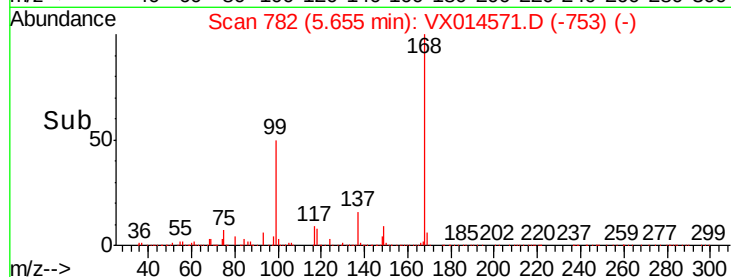
121 0.1 23.4 35.0#



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



#47

Bromodichloromethane

Concen: 0.435 ug/l

RT: 7.89 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

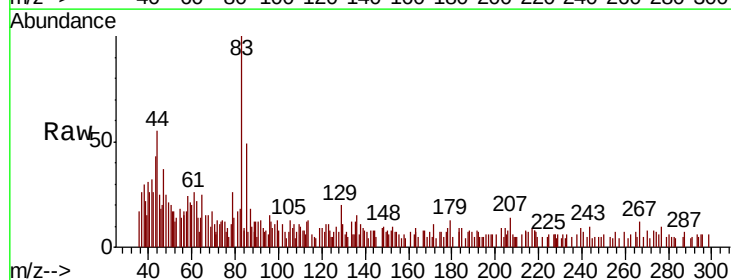
Tgt Ion: 83 Resp: 2911

Ion Ratio Lower Upper

83 100

85 35.5 51.7 77.5#

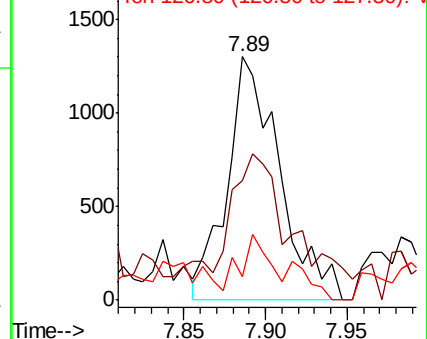
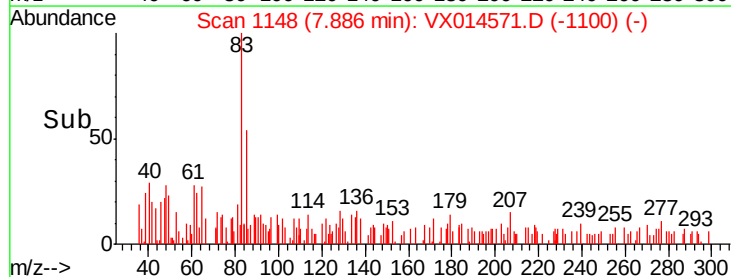
127 9.5 7.1 10.7

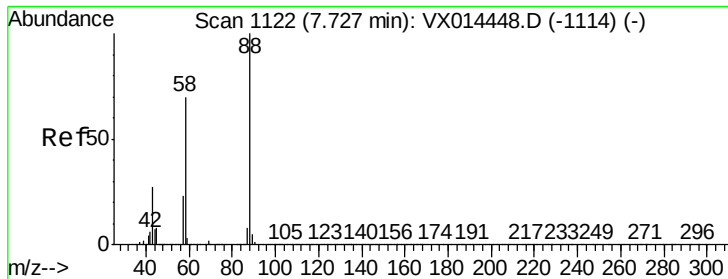


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V





#49

1,4-Dioxane

Concen: 1.176 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

Instrument :

MSVOA_X

ClientSampled :

TP-1

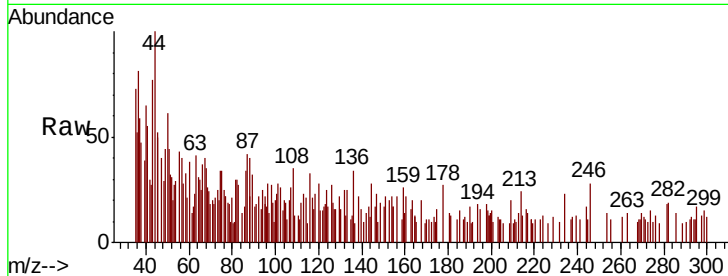
Tot Ion: 88 Resp: 146

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

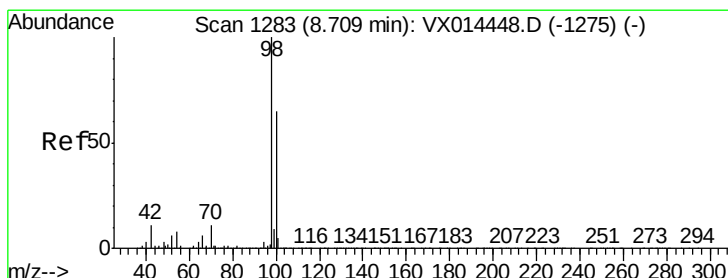
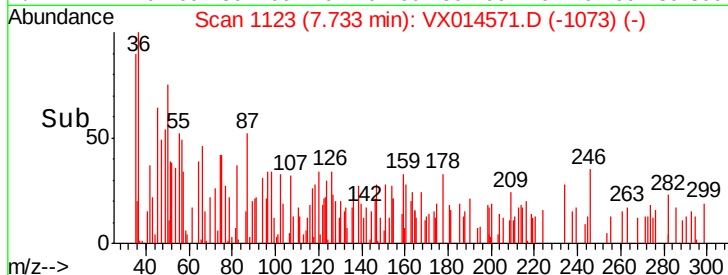
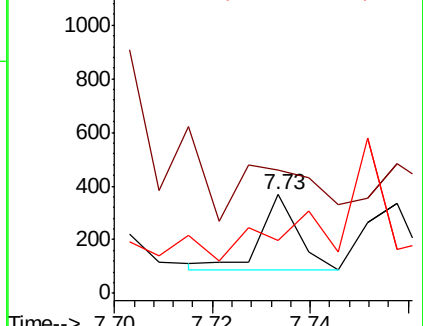
58 0.0 57.1 85.7#



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: 50.504 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014571.D

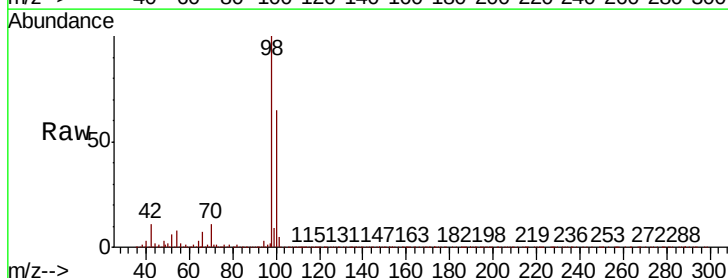
Acq: 11 Jan 2020 05:32

Tgt Ion: 98 Resp: 879479

Ion Ratio Lower Upper

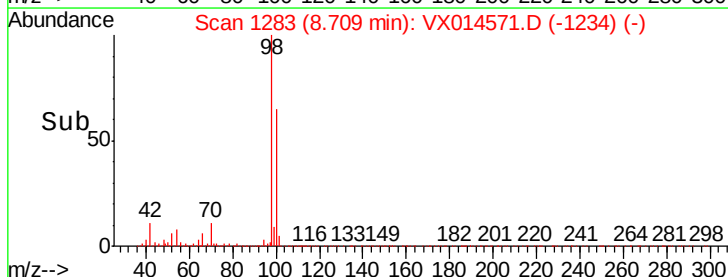
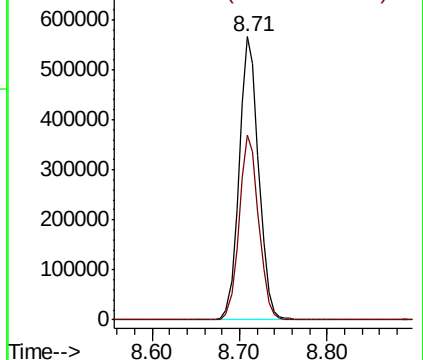
98 100

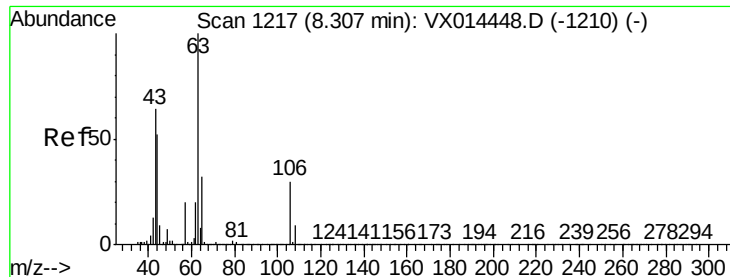
100 65.2 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

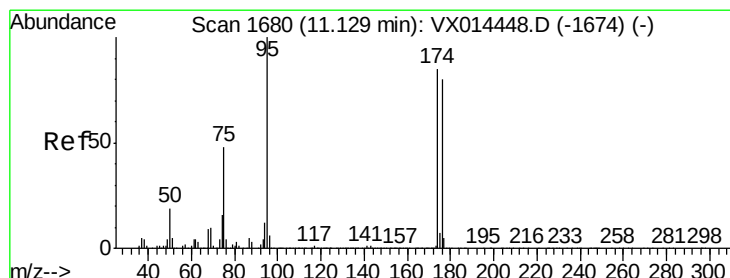
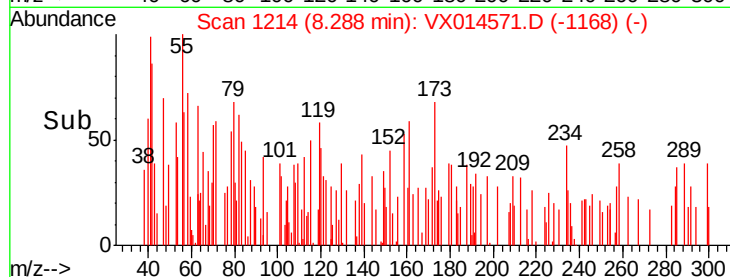
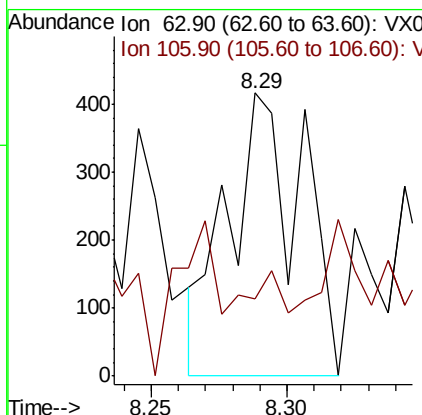
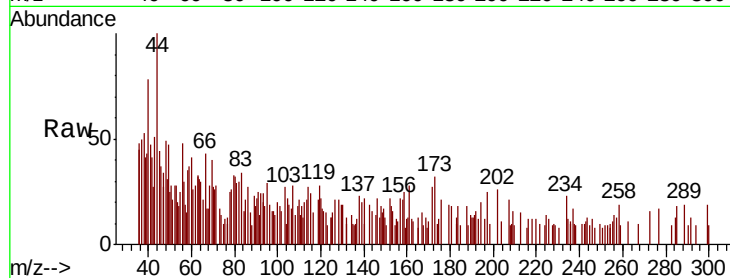




#58
2-Chloroethyl Vinyl ether
Concen: 0.280 ug/l
RT: 8.29 min Scan# 1214
Delta R.T. -0.02 min
Lab File: VX014571.D
Acq: 11 Jan 2020 05:32

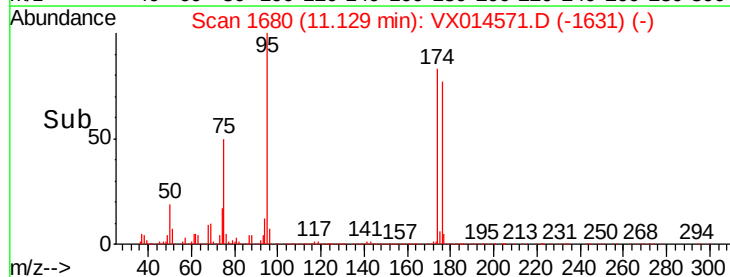
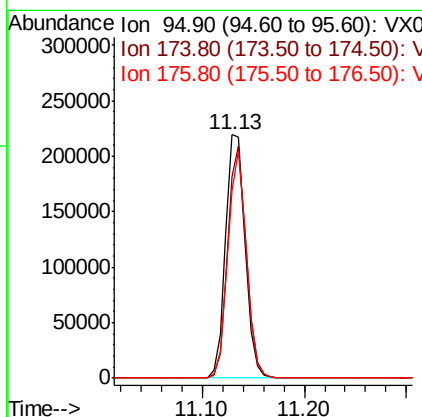
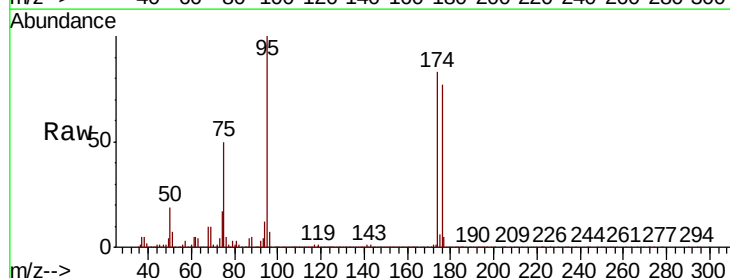
Instrument :
MSVOA_X
ClientSampleId :
TP-1

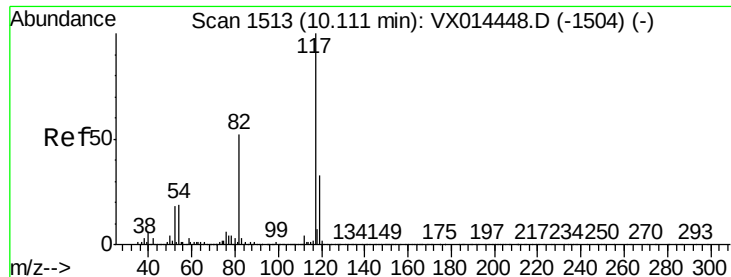
Tot Ion: 63 Resp: 777
Ion Ratio Lower Upper
63 100
106 40.8 23.6 35.4#



#62
4-Bromofluorobenzene
Concen: 45.671 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX014571.D
Acq: 11 Jan 2020 05:32

Tgt Ion: 95 Resp: 291968
Ion Ratio Lower Upper
95 100
174 89.5 0.0 180.8
176 87.7 0.0 172.8

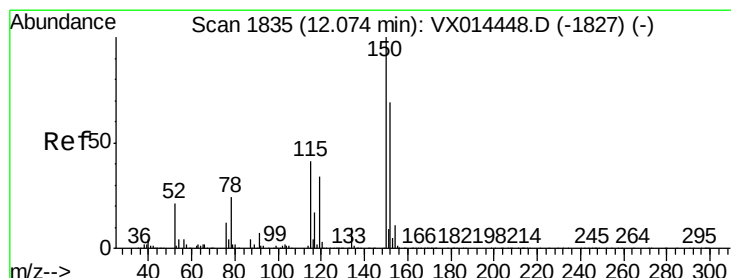
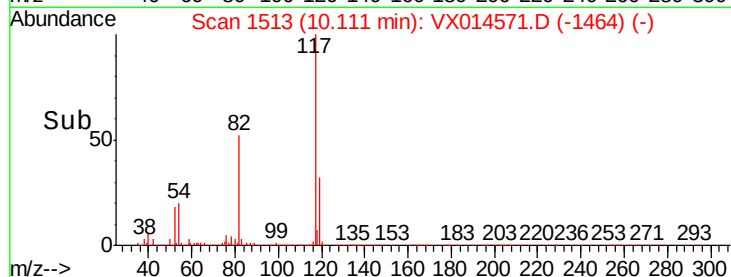
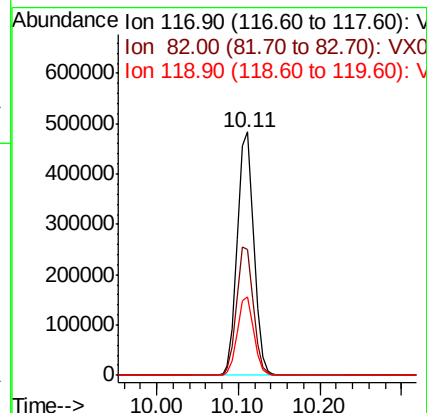
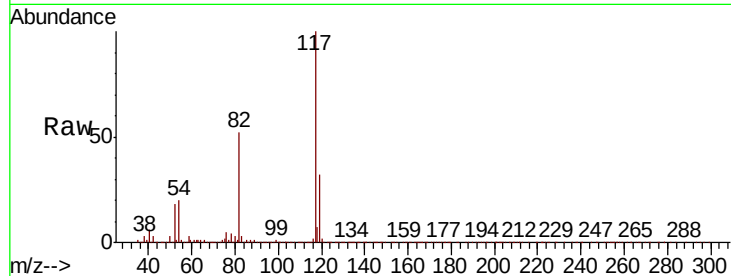




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014571.D
Acq: 11 Jan 2020 05:32

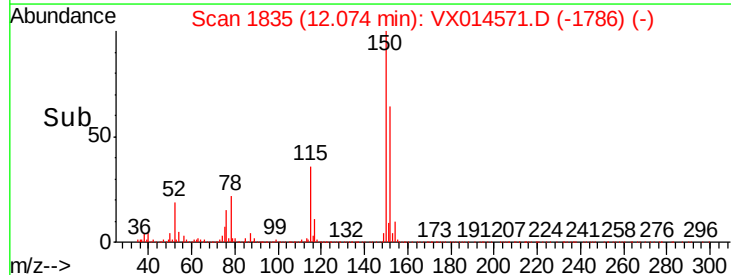
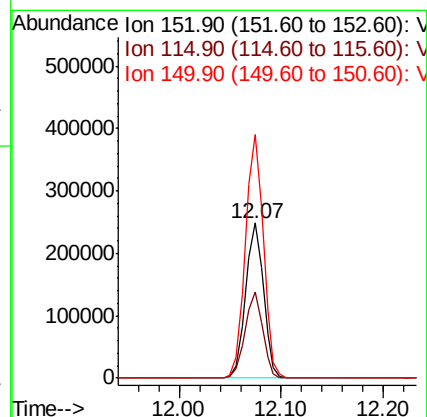
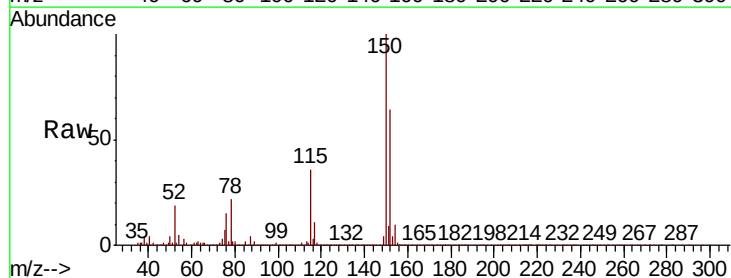
Instrument :
MSVOA_X
ClientSampleId :
TP-1

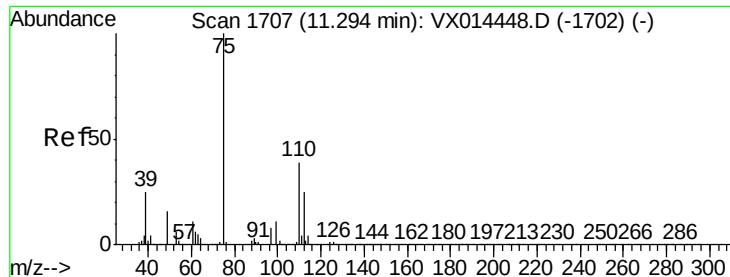
Tot Ion:117 Resp: 667488
Ion Ratio Lower Upper
117 100
82 51.7 41.8 62.6
119 32.4 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014571.D
Acq: 11 Jan 2020 05:32

Tgt Ion:152 Resp: 298797
Ion Ratio Lower Upper
152 100
115 55.1 39.5 118.3
150 158.3 0.0 350.2





#76

1,2,3-Trichloropropane

Concen: 23.441 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

Instrument :

MSVOA_X

ClientSampleId :

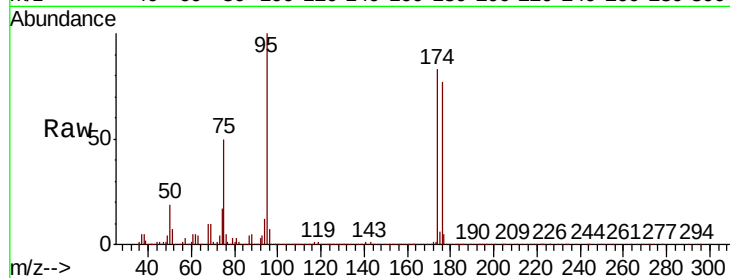
TP-1

Tot Ion: 75 Resp: 144919

Ion Ratio Lower Upper

75 100

77 1.5 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

120000

100000

80000

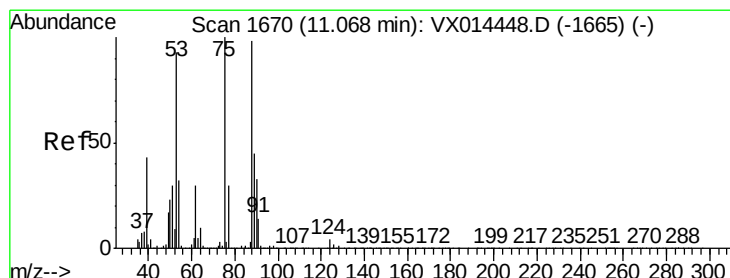
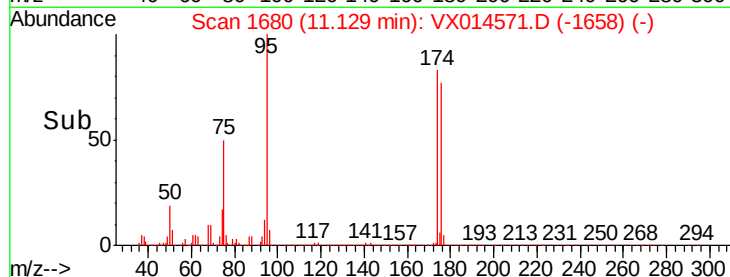
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 61.975 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014571.D

Acq: 11 Jan 2020 05:32

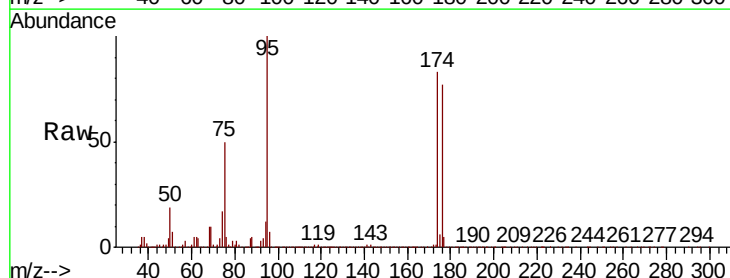
Tgt Ion: 75 Resp: 144919

Ion Ratio Lower Upper

75 100

53 0.0 74.8 112.2#

89 0.0 36.3 54.5#



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

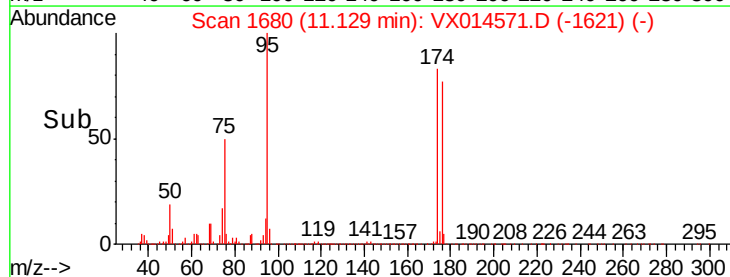
150000

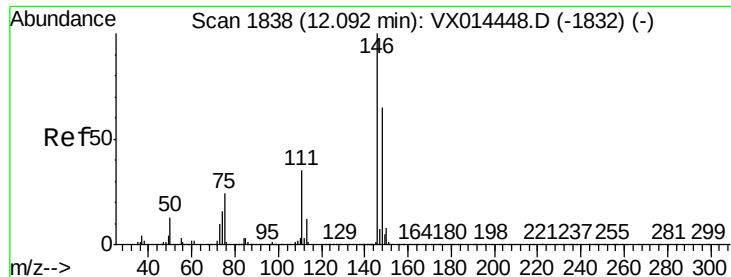
100000

50000

0

Time-->

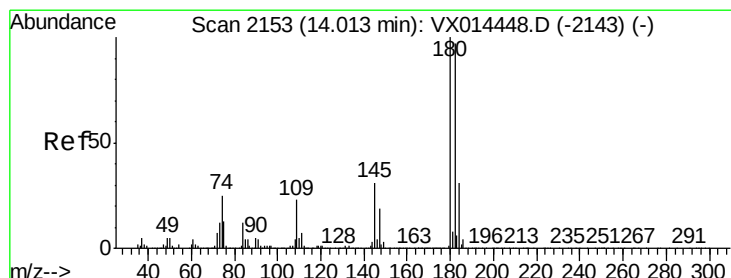
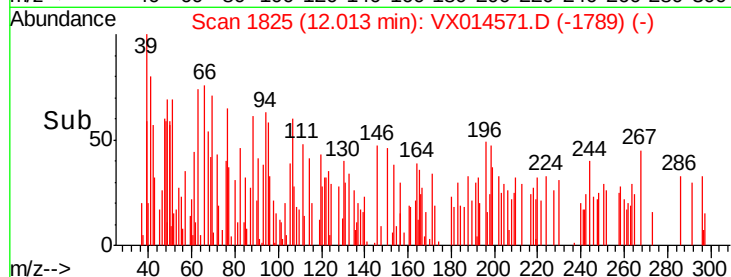
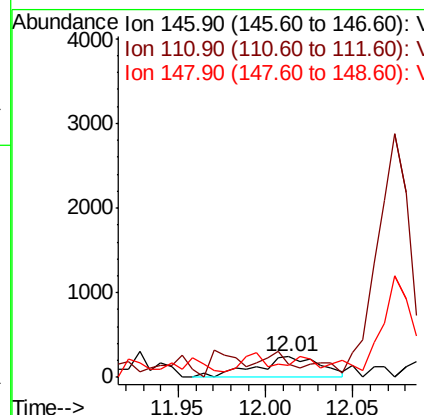
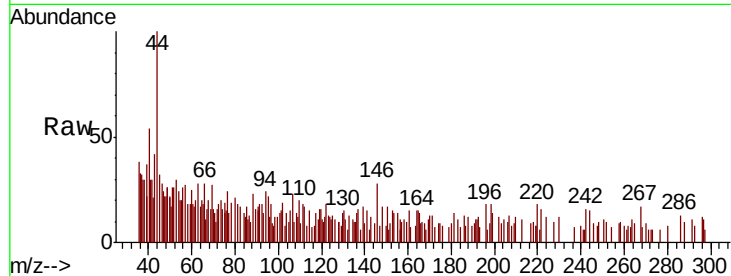




#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 12.01 min Scan# 1825
 Delta R.T. -0.08 min
 Lab File: VX014571.D
 Acq: 11 Jan 2020 05:32

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-1

Tot Ion:146 Resp: 640
 Ion Ratio Lower Upper
 146 100
 111 35.6 18.1 54.1
 148 32.7 32.1 96.3



#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 14.03 min Scan# 2156
 Delta R.T. 0.02 min
 Lab File: VX014571.D
 Acq: 11 Jan 2020 05:32

Tgt Ion:180 Resp: 226
 Ion Ratio Lower Upper
 180 100
 182 158.8 47.9 143.6#
 145 61.9 14.8 44.3#

