

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011020\
 Data File : VX014573.D
 Acq On : 11 Jan 2020 06:18
 Operator : JC/SP
 Sample : L1060-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

Quant Time: Jan 13 00:48:17 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	461801	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	710913	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	630018	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	285698	50.00	ug/l	0.00

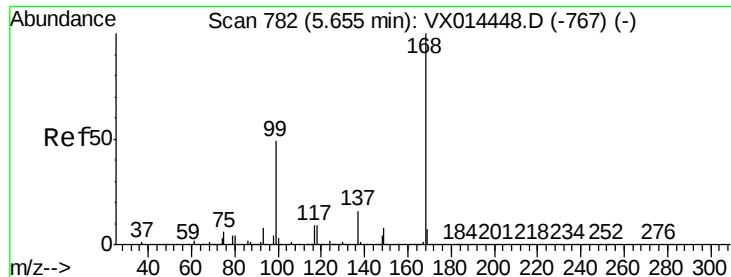
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	257557	49.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.92%	
35) Dibromofluoromethane	5.49	113	215541	50.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.18%	
50) Toluene-d8	8.71	98	837014	50.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.24%	
62) 4-Bromofluorobenzene	11.14	95	277707	45.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	283	0.302	ug/l #	67
6) Chloroethane	1.59	64	6481	0.539	ug/l #	43
11) Tert butyl alcohol	3.02	59	417	0.387	ug/l #	72
13) Acrolein	2.29	56	356	0.413	ug/l #	72
16) Acetone	2.43	43	6856	Below Cal		89
20) Methylene Chloride	2.85	84	7225	1.393	ug/l #	84
25) 2-Butanone	4.68	43	1560	0.405	ug/l #	64
29) Tetrahydrofuran	5.12	42	1496	0.657	ug/l #	71
36) 1,1-Dichloropropene	5.65	75	33210	4.967	ug/l #	52
38) Carbon Tetrachloride	5.65	117	39143	6.362	ug/l #	18
41) Methacrylonitrile	5.03	41	792	0.205	ug/l #	48
49) 1,4-Dioxane	7.74	88	335	2.814	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	134759	22.797	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	134759	60.272	ug/l #	12
88) 1,4-Dichlorobenzene	12.09	146	546	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	12.99	75	320	0.221	ug/l	56
93) 1,2,4-Trichlorobenzene	13.65	180	448	Below Cal	#	75
95) Naphthalene	13.83	128	6251	0.293	ug/l #	85
96) 1,2,3-Trichlorobenzene	14.02	180	244	Below Cal	#	73

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

Instrument :

MSVOA_X

ClientSampled :

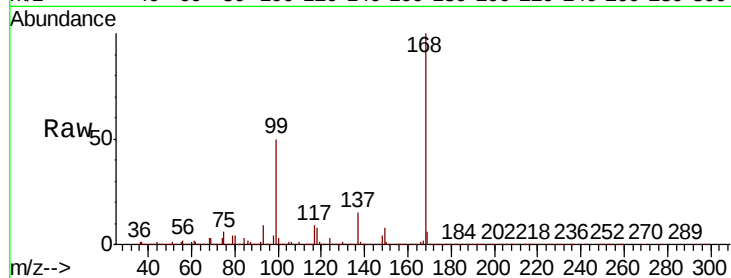
TP-3

Tot Ion:168 Resp: 461801

Ion Ratio Lower Upper

168 100

99 49.7 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

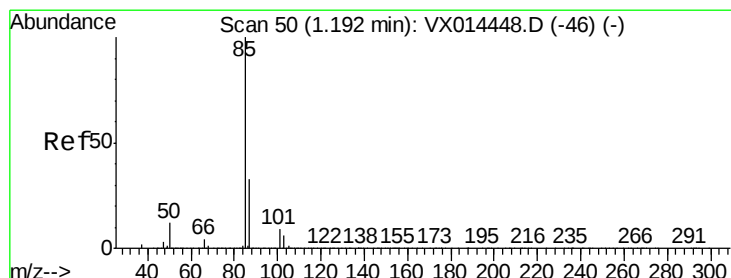
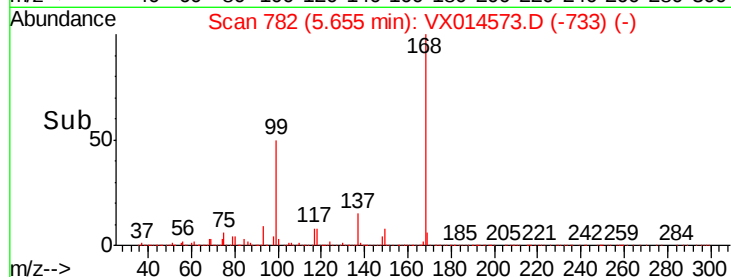
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.302 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX014573.D

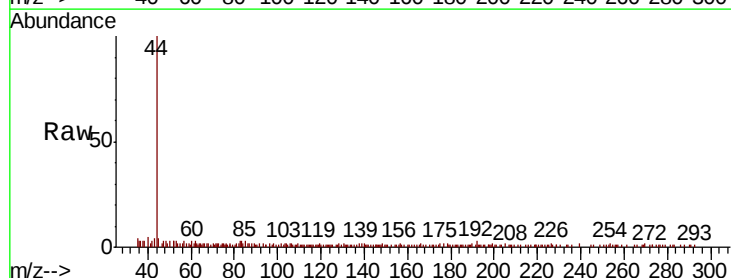
Acq: 11 Jan 2020 06:18

Tgt Ion: 85 Resp: 283

Ion Ratio Lower Upper

85 100

87 14.6 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

300

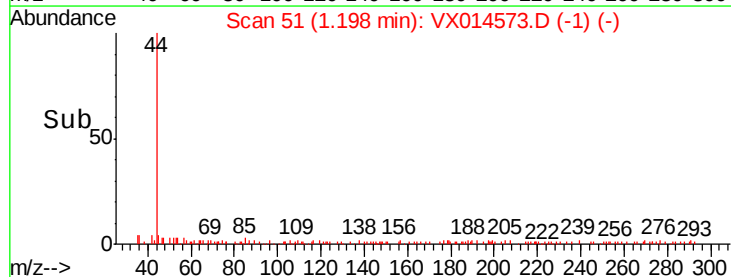
200

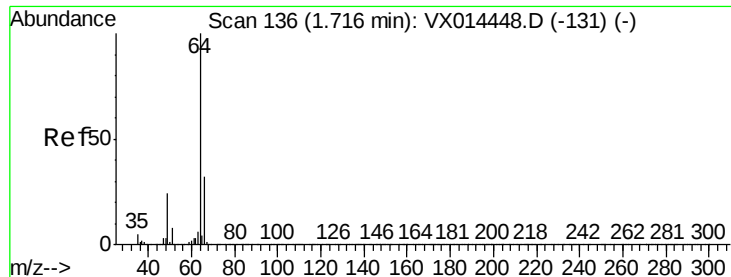
100

0

Time-->

1.18 1.19 1.20 1.21





#6

Chloroethane

Concen: 0.539 ug/l

RT: 1.59 min Scan# 116

Delta R.T. -0.12 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

Instrument :

MSVOA_X

ClientSampleId :

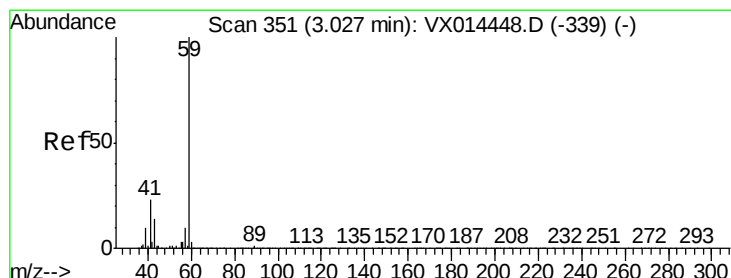
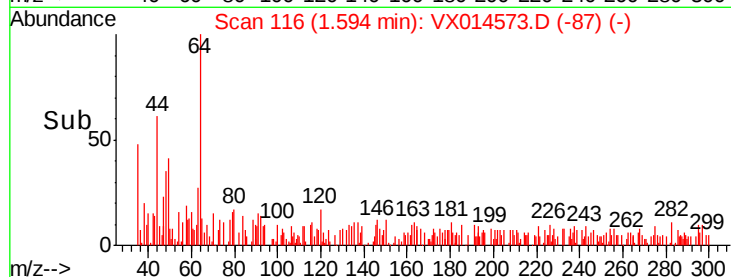
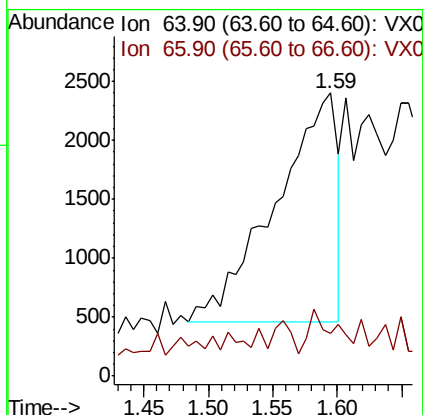
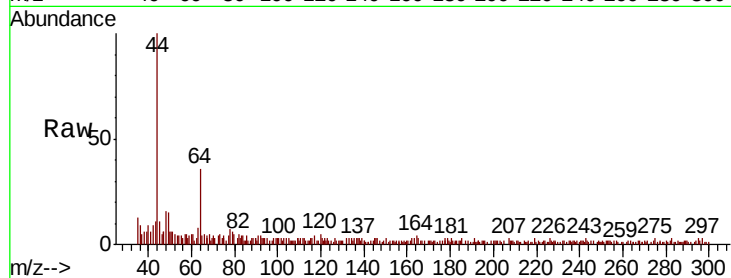
TP-3

Tot Ion: 64 Resp: 6481

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



#11

Tert butyl alcohol

Concen: 0.387 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX014573.D

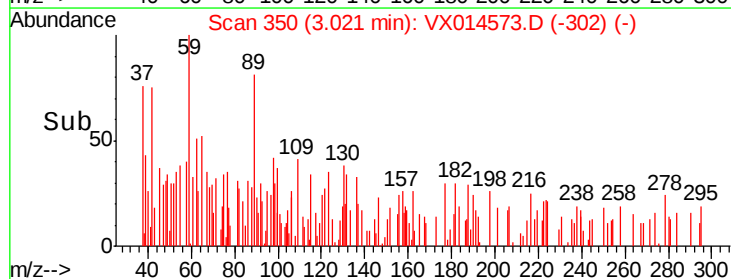
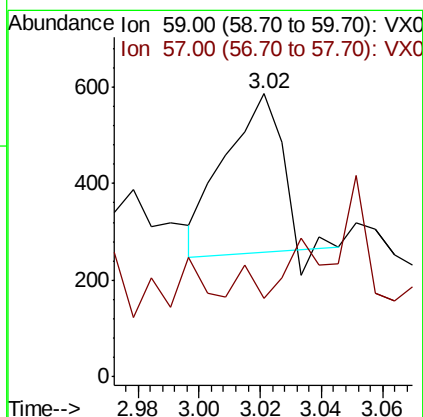
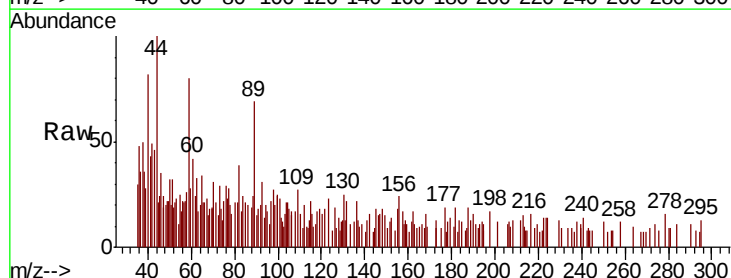
Acq: 11 Jan 2020 06:18

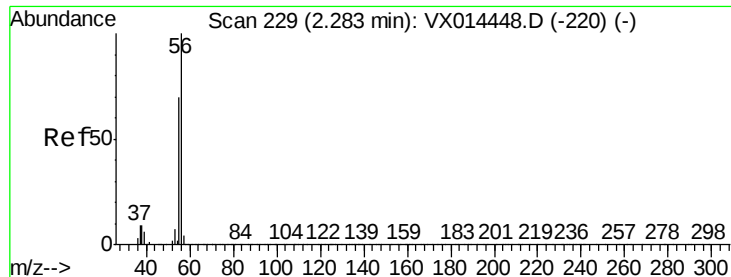
Tgt Ion: 59 Resp: 417

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.413 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

Instrument :

MSVOA_X

ClientSampleId :

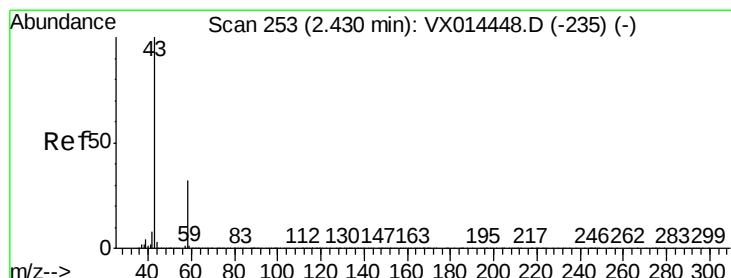
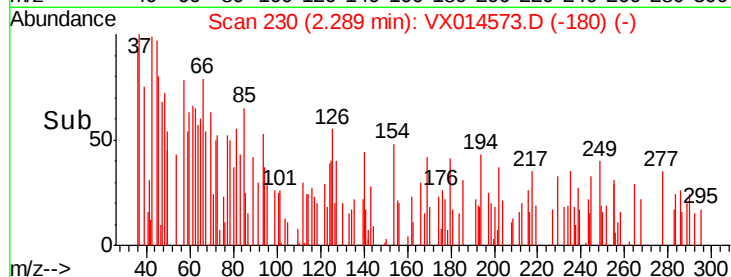
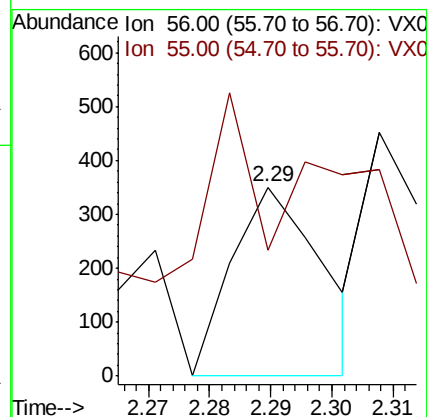
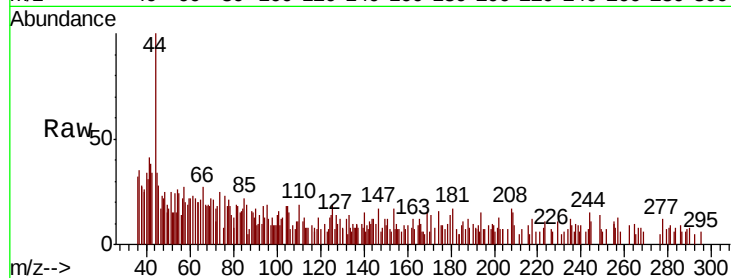
TP-3

Tot Ion: 56 Resp: 356

Ion Ratio Lower Upper

56 100

55 46.3 55.0 82.6#



#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014573.D

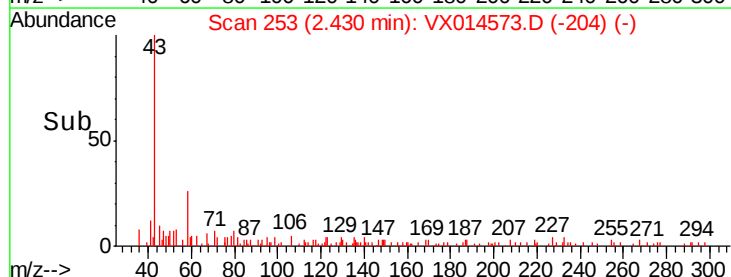
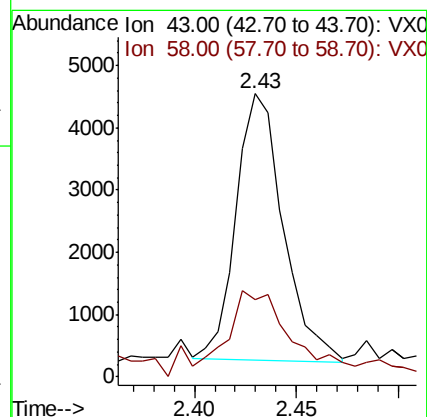
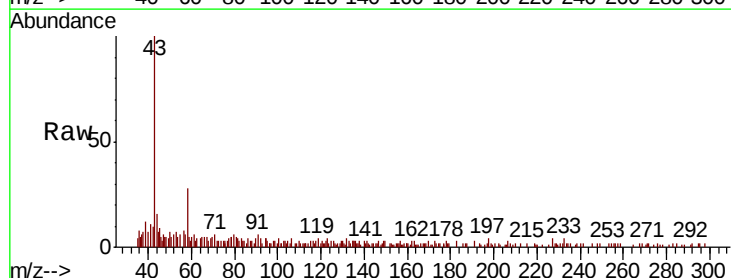
Acq: 11 Jan 2020 06:18

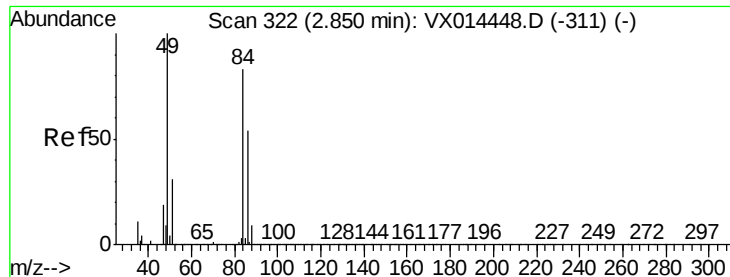
Tgt Ion: 43 Resp: 6856

Ion Ratio Lower Upper

43 100

58 25.6 25.4 38.0

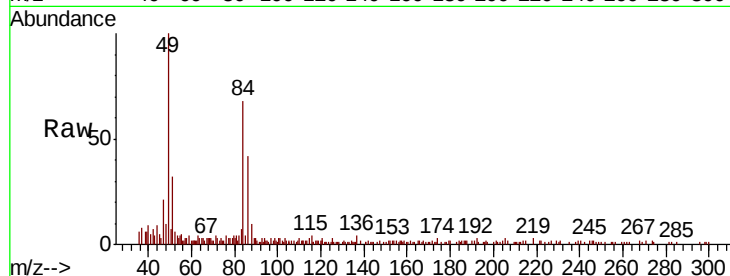




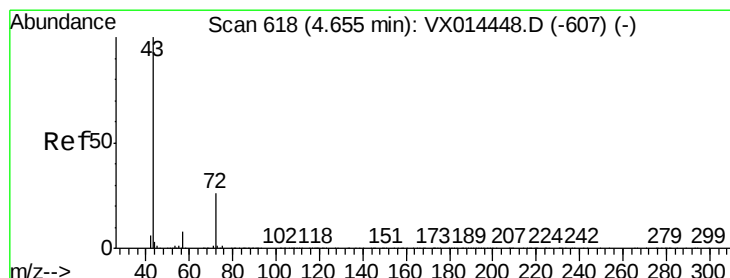
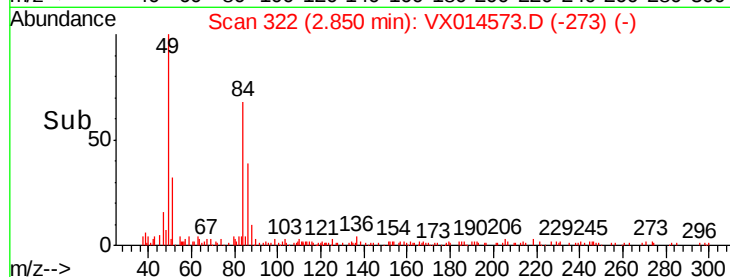
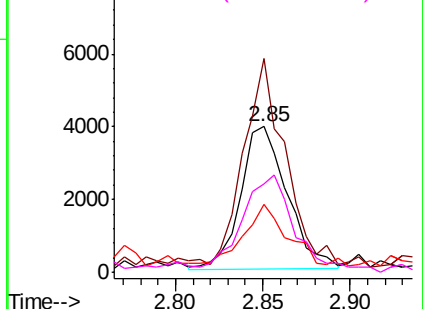
#20
Methvlene Chloride
Concen: 1.393 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014573.D
Acq: 11 Jan 2020 06:18

Instrument :
MSVOA_X
ClientSampled :
TP-3

Tot Ion: 84 Resp: 7225
Ion Ratio Lower Upper
84 100
49 146.6 95.8 143.8#
51 41.6 30.2 45.4
86 58.4 51.8 77.6

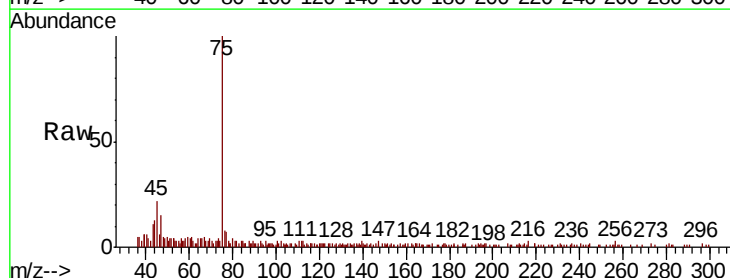


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

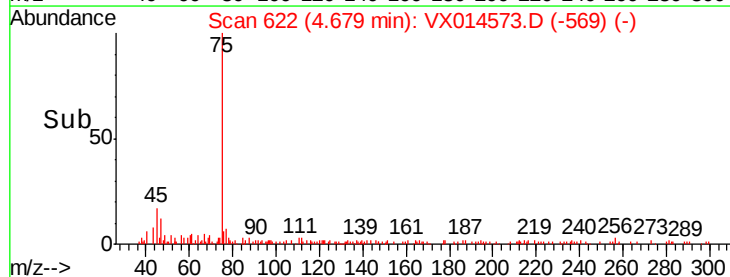
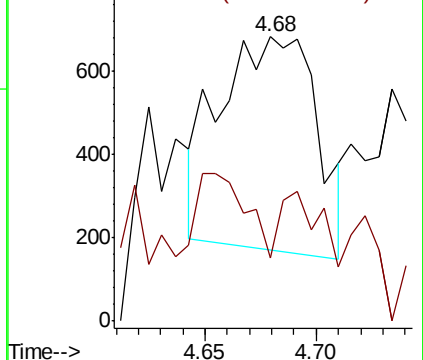


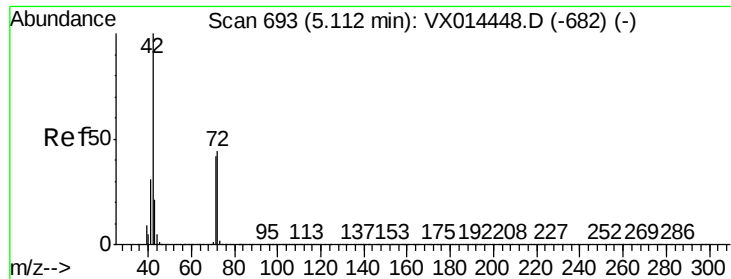
#25
2-Butanone
Concen: 0.405 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX014573.D
Acq: 11 Jan 2020 06:18

Tgt Ion: 43 Resp: 1560
Ion Ratio Lower Upper
43 100
72 7.6 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

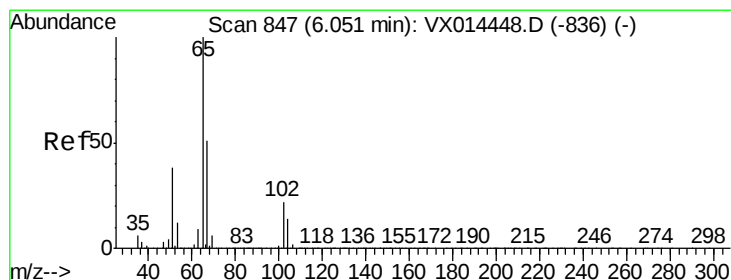
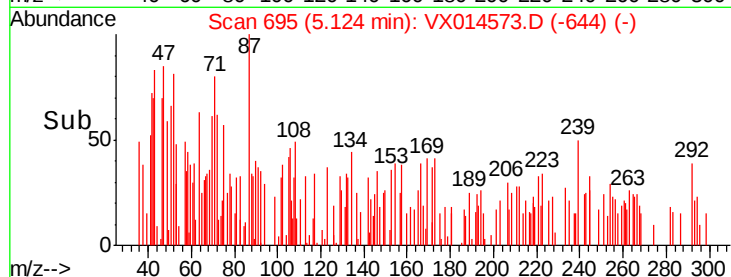
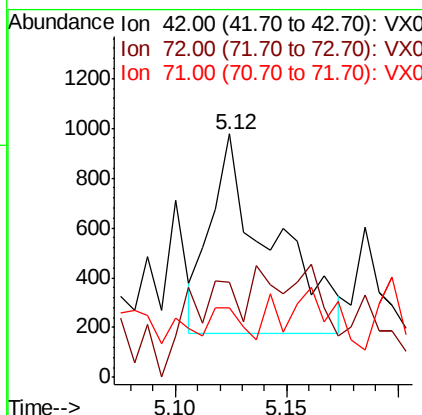
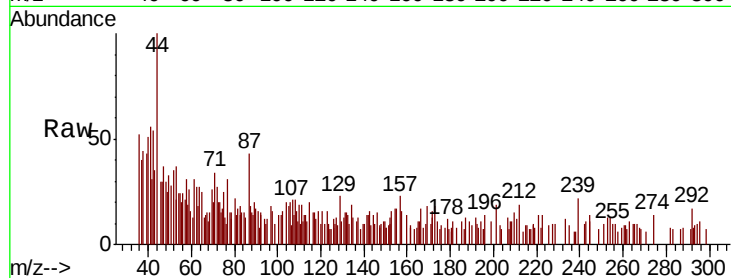




#29
Tetrahydrofuran
Concen: 0.657 ug/l
RT: 5.12 min Scan# 695
Delta R.T. 0.01 min
Lab File: VX014573.D
Acq: 11 Jan 2020 06:18

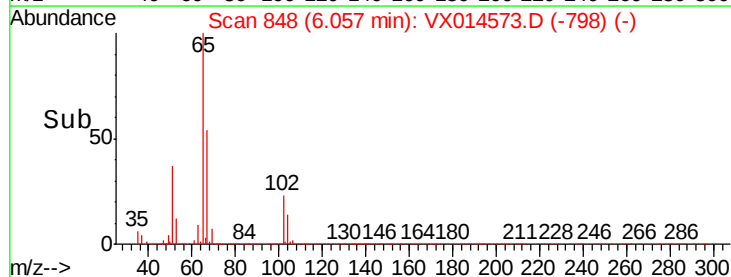
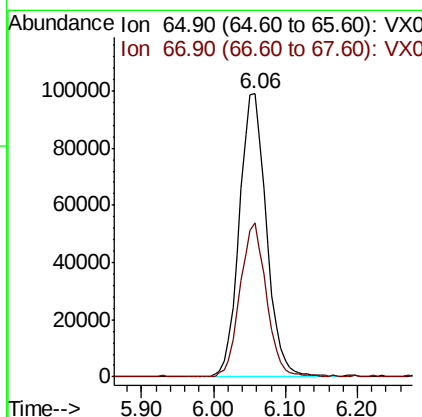
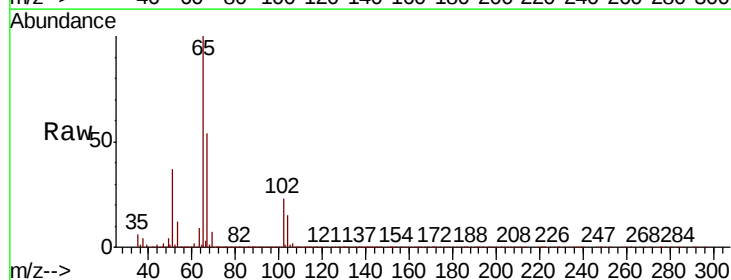
Instrument :
MSVOA_X
ClientSampled :
TP-3

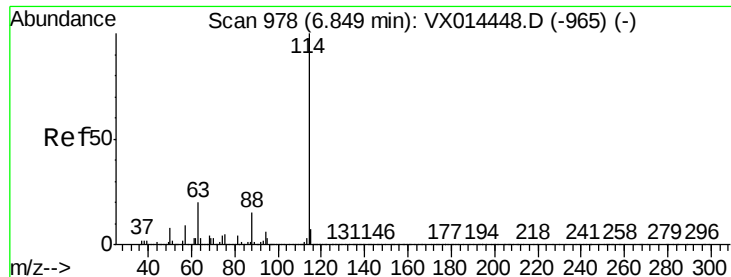
Tot Ion: 42 Resp: 1496
Ion Ratio Lower Upper
42 100
72 42.4 36.2 54.4
71 7.6 34.1 51.1#



#33
1,2-Dichloroethane-d4
Concen: 49.960 ug/l
RT: 6.06 min Scan# 848
Delta R.T. 0.01 min
Lab File: VX014573.D
Acq: 11 Jan 2020 06:18

Tgt Ion: 65 Resp: 257557
Ion Ratio Lower Upper
65 100
67 52.7 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: VX014573.D

Acq: 11 Jan 2020 06:18

Instrument :

MSVOA_X

ClientSampleId :

TP-3

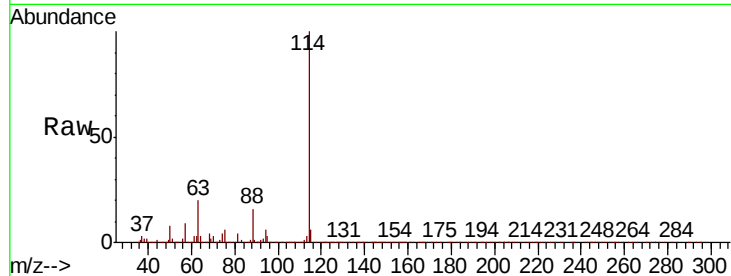
Tot Ion:114 Resp: 710913

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.6

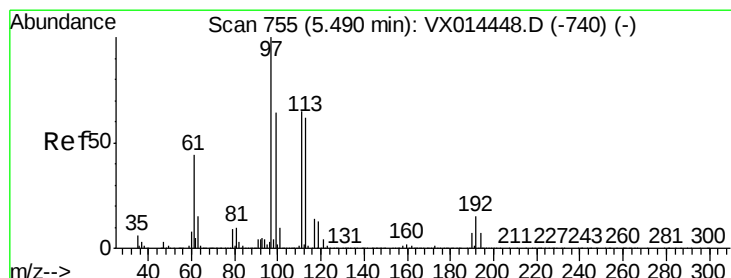
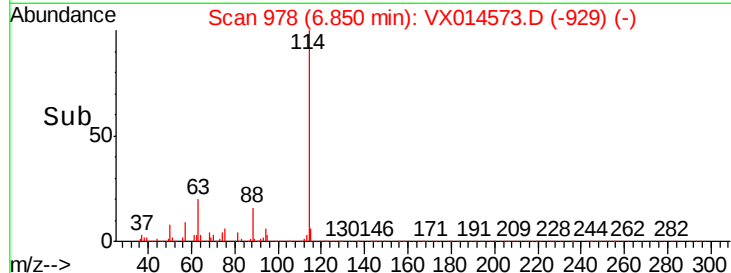
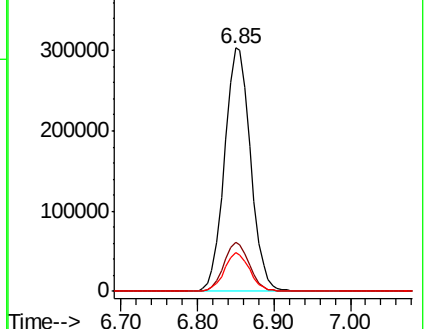
88 15.9 0.0 30.8



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: 50.085 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

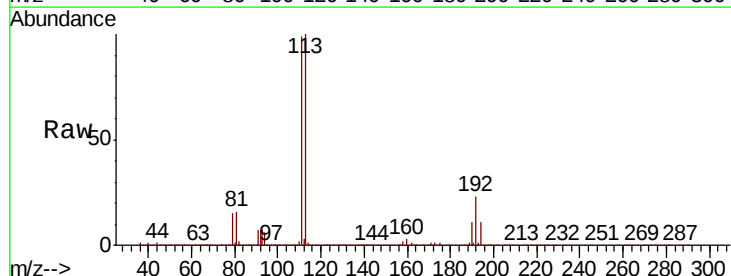
Tgt Ion:113 Resp: 215541

Ion Ratio Lower Upper

113 100

111 102.0 81.5 122.3

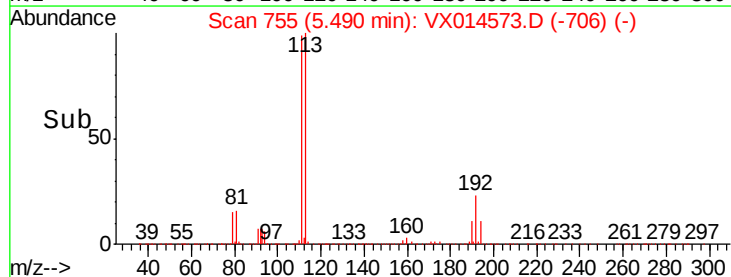
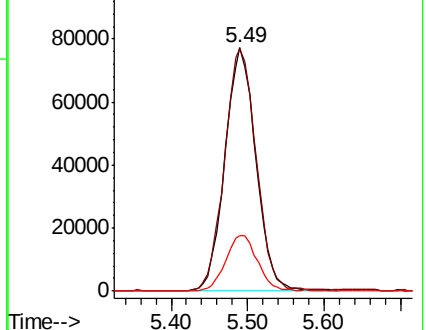
192 23.7 19.2 28.8

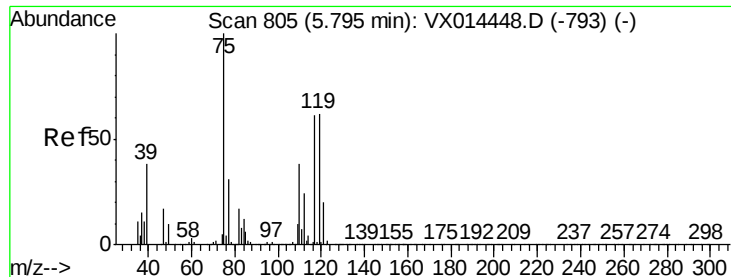


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

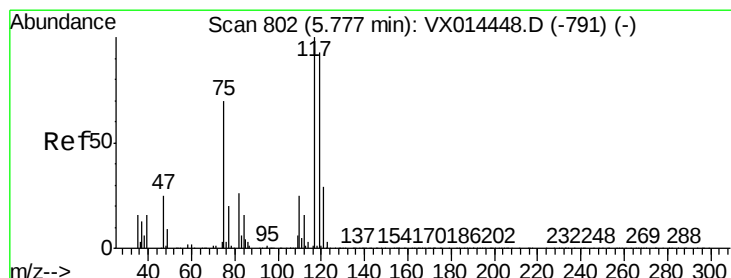
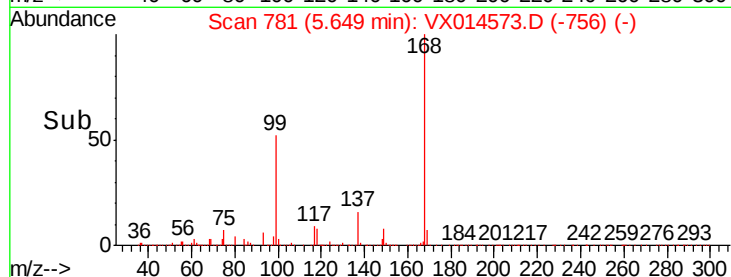
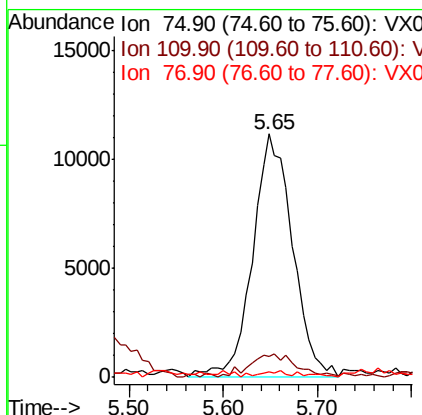
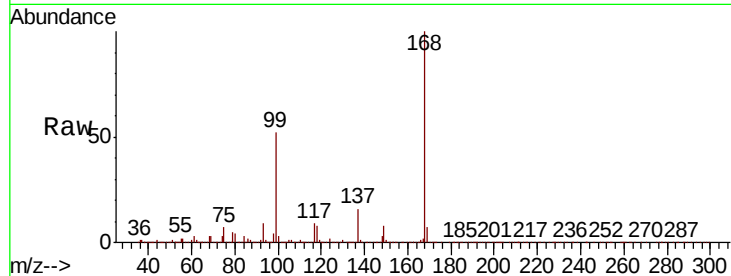




#36
 1,1-Dichloropropene
 Concen: 4.967 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014573.D
 Acq: 11 Jan 2020 06:18

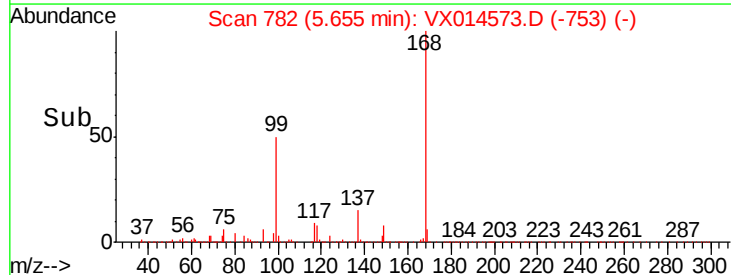
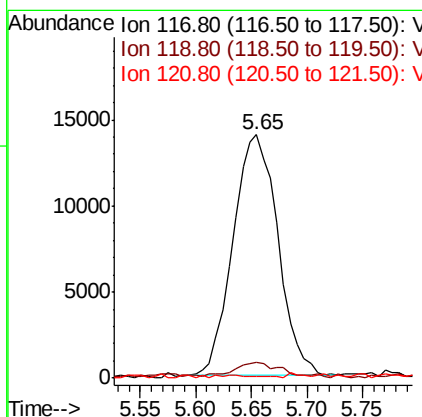
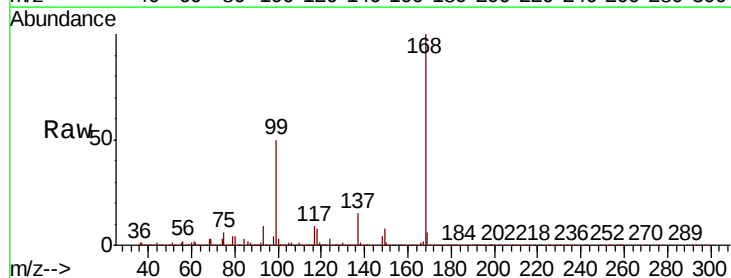
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

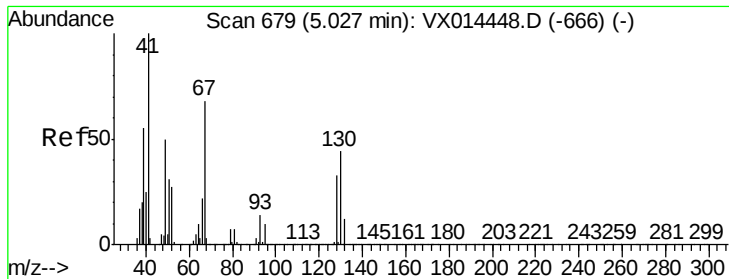
Tot Ion	75	Resp	33210
Ion Ratio	100	Lower	Upper
75	100		
110	11.3	18.6	55.8#
77	1.7	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.362 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014573.D
 Acq: 11 Jan 2020 06:18

Tgt Ion	117	Resp	39143
Ion Ratio	100	Lower	Upper
117	100		
119	5.3	73.8	110.8#
121	0.8	23.4	35.0#





#41

Methacrylonitrile

Concen: 0.205 ug/l

RT: 5.03 min Scan# 679

Delta R.T. 0.00 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

Instrument :

MSVOA_X

ClientSampled :

TP-3

Tot Ion: 41 Resp: 792

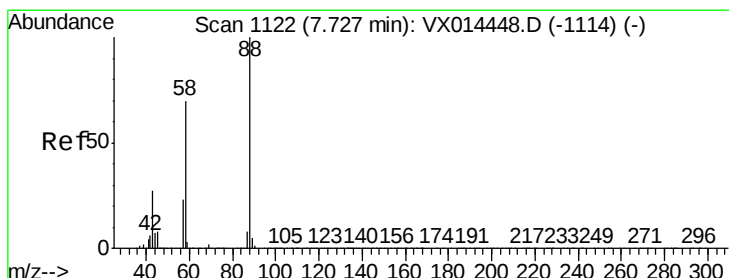
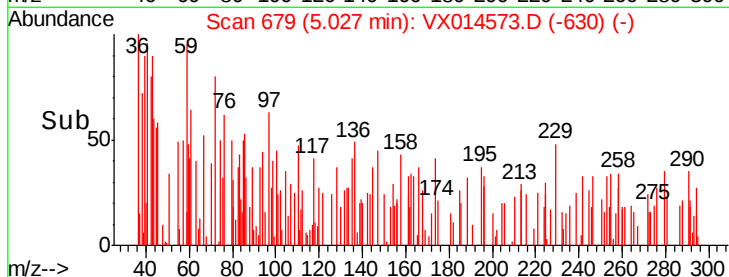
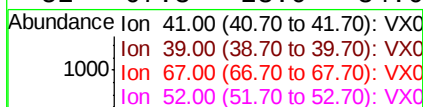
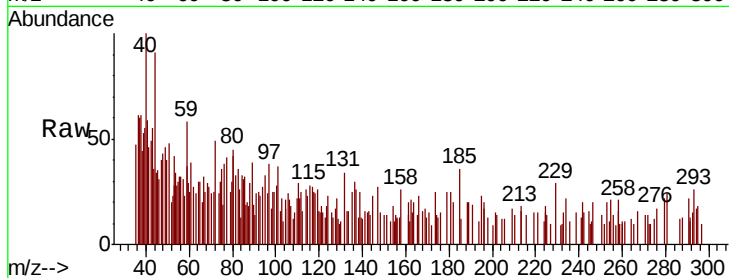
Ion Ratio Lower Upper

41 100

39 113.3 43.6 65.4#

67 54.7 57.9 86.9#

52 67.3 23.0 34.6#



#49

1,4-Dioxane

Concen: 2.814 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

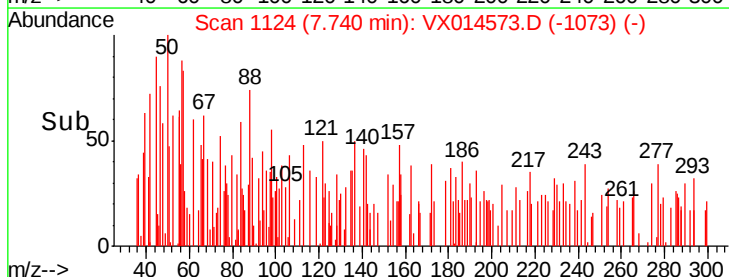
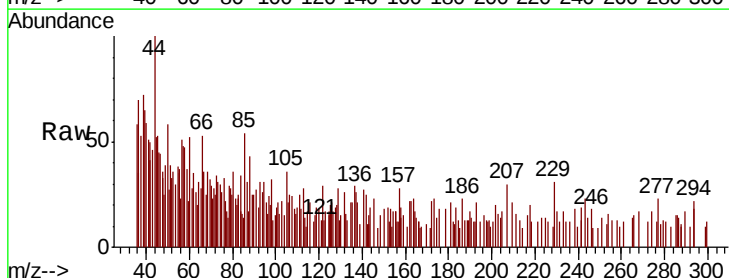
Tgt Ion: 88 Resp: 335

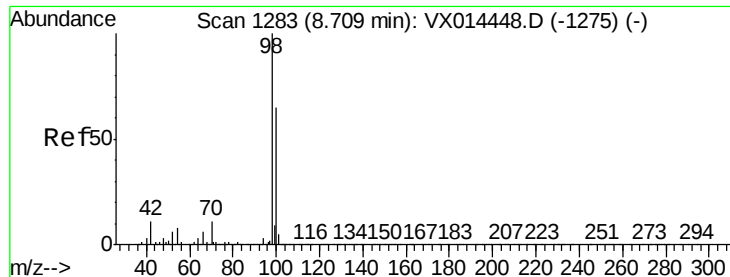
Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

58 31.0 57.1 85.7#





#50

Toluene-d8

Concen: 50.120 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

Instrument :

MSVOA_X

ClientSampleId :

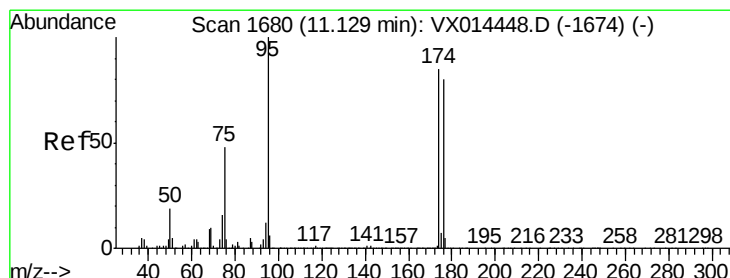
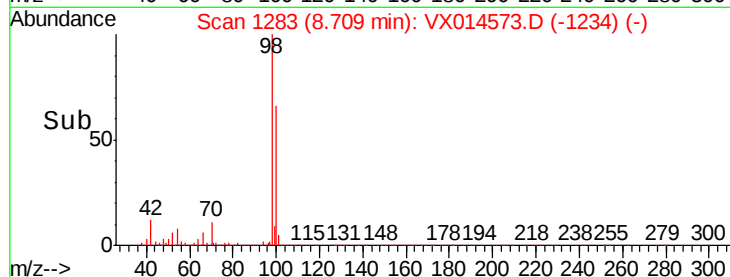
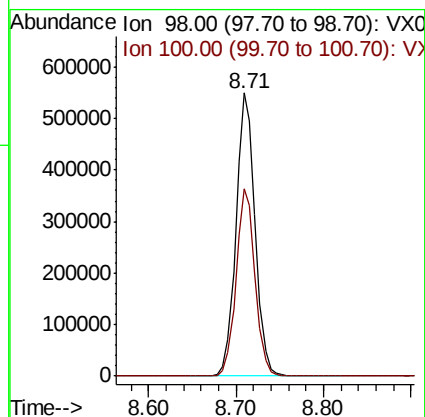
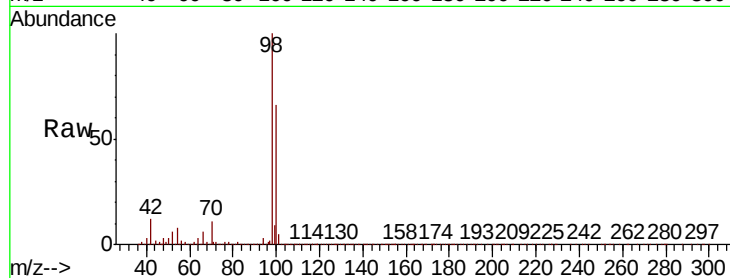
TP-3

Tot Ion: 98 Resp: 837014

Ion Ratio Lower Upper

98 100

100 65.7 53.2 79.8



#62

4-Bromofluorobenzene

Concen: 45.296 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

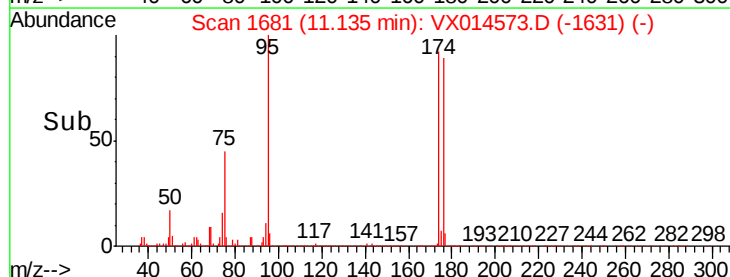
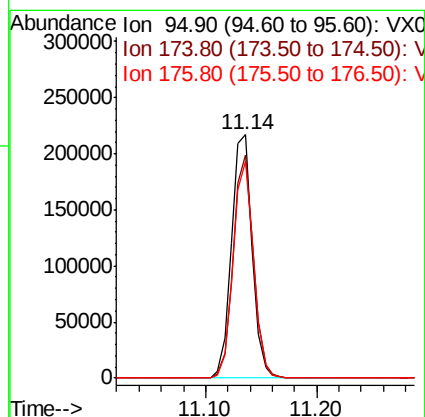
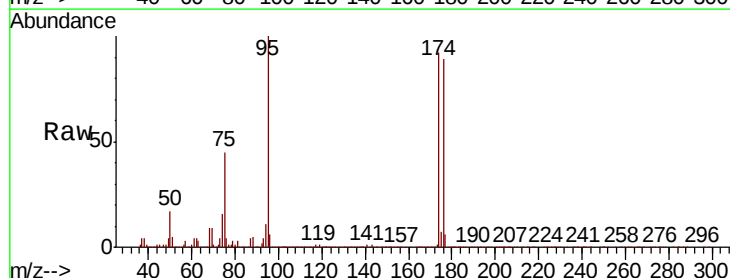
Tgt Ion: 95 Resp: 277707

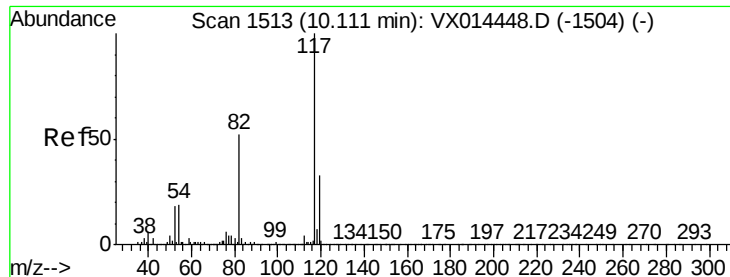
Ion Ratio Lower Upper

95 100

174 89.7 0.0 180.8

176 87.6 0.0 172.8

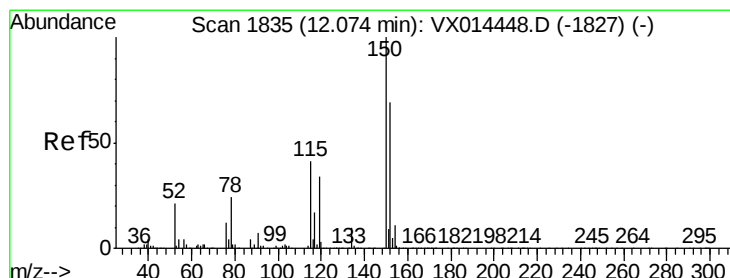
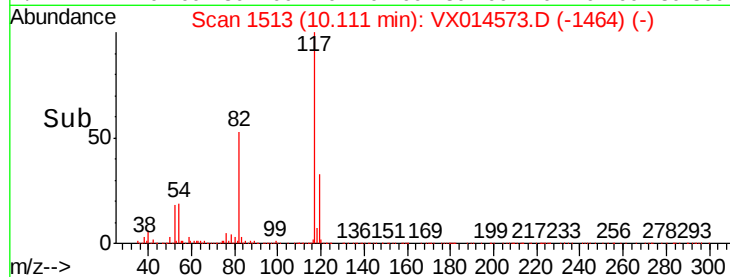
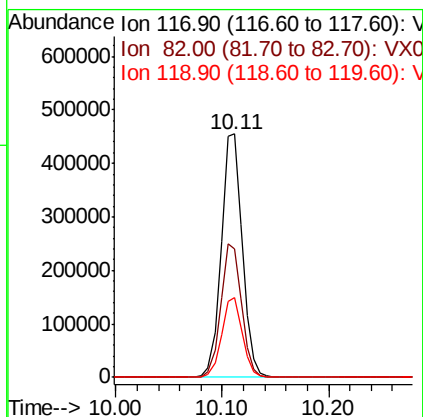
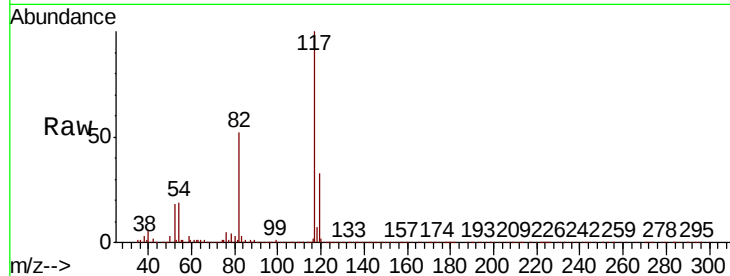




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014573.D
Acq: 11 Jan 2020 06:18

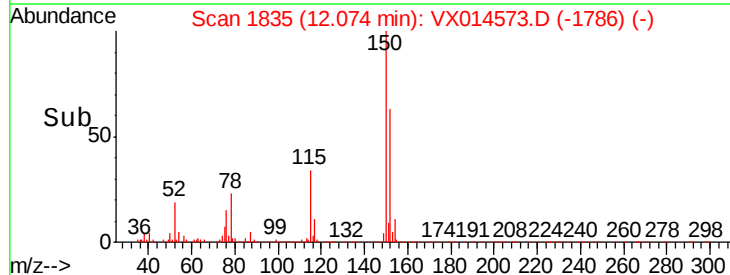
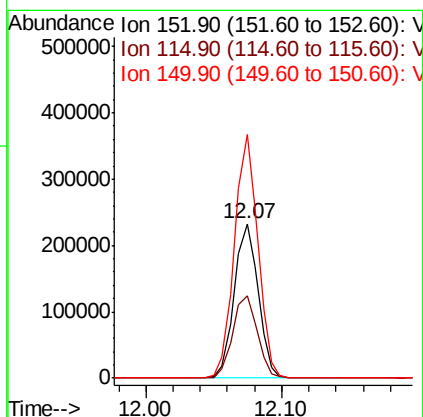
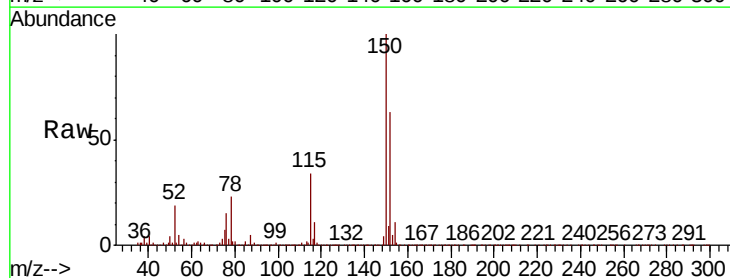
Instrument :
MSVOA_X
ClientSampled :
TP-3

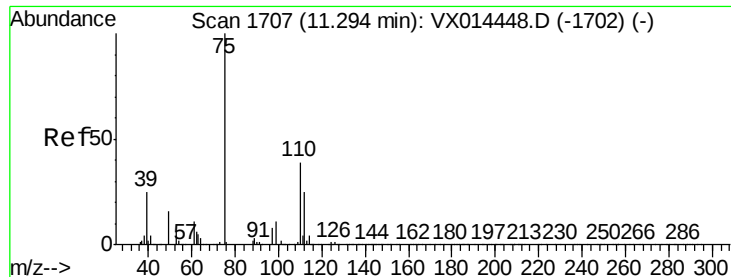
Tot Ion:117 Resp: 630018
Ion Ratio Lower Upper
117 100
82 52.4 41.8 62.6
119 32.6 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014573.D
Acq: 11 Jan 2020 06:18

Tgt Ion:152 Resp: 285698
Ion Ratio Lower Upper
152 100
115 54.7 39.5 118.3
150 154.6 0.0 350.2





#76

1,2,3-Trichloropropane

Concen: 22.797 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

Instrument :

MSVOA_X

ClientSampleId :

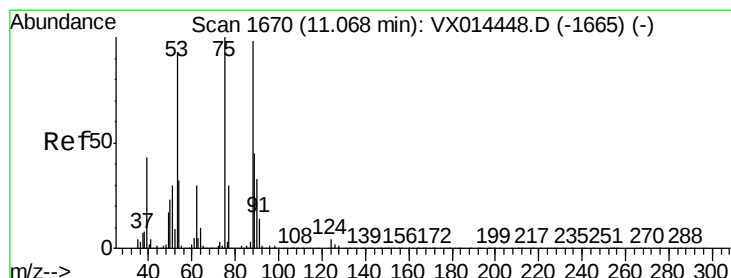
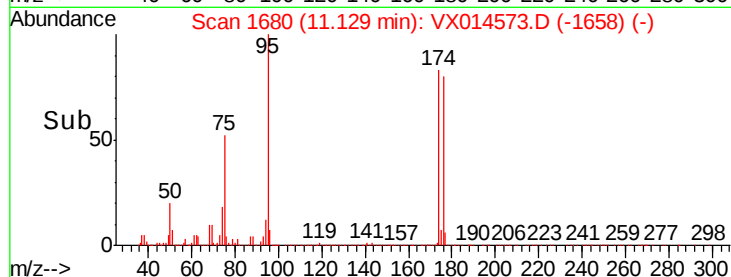
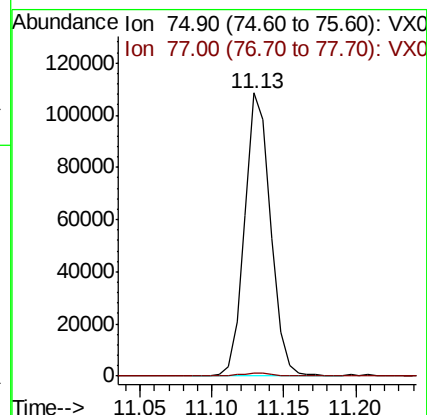
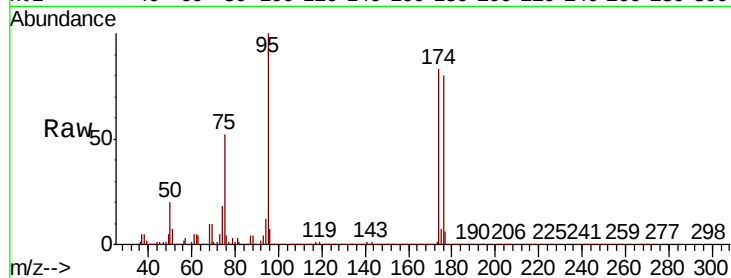
TP-3

Tot Ion: 75 Resp: 134759

Ion Ratio Lower Upper

75 100

77 1.2 21.9 65.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 60.272 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

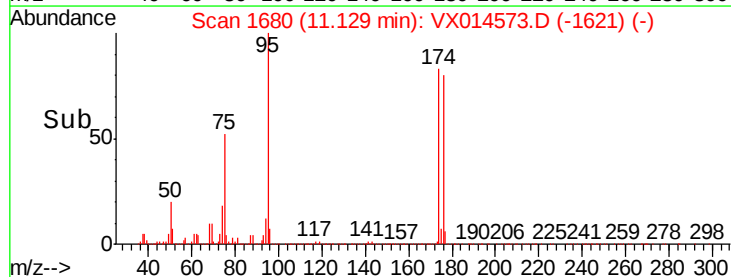
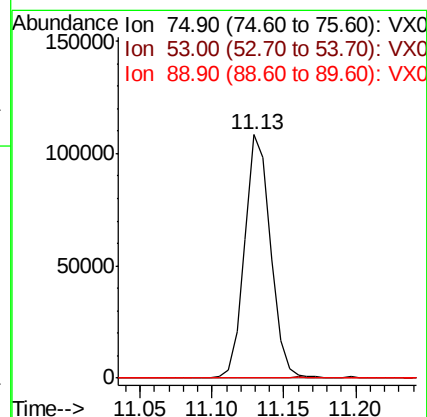
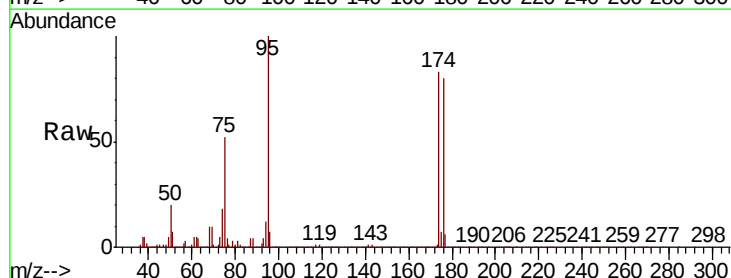
Tgt Ion: 75 Resp: 134759

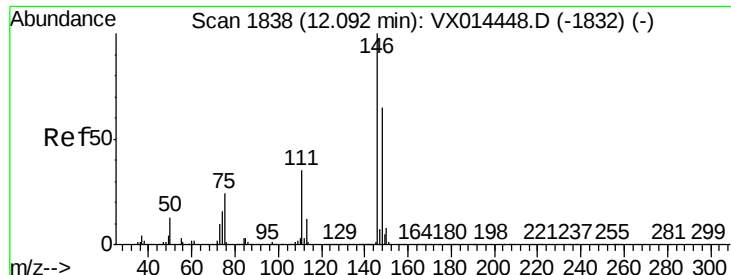
Ion Ratio Lower Upper

75 100

53 0.1 74.8 112.2#

89 0.2 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

Instrument :

MSVOA_X

ClientSampleId :

TP-3

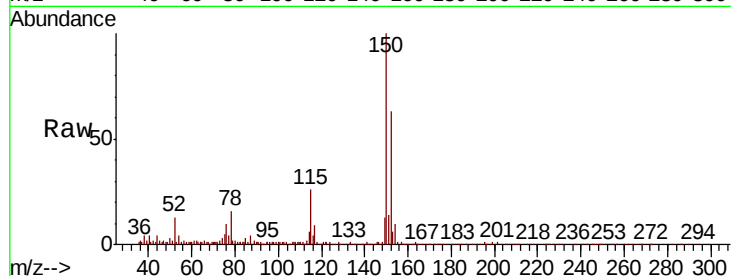
Tot Ion:146 Resp: 546

Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.1#

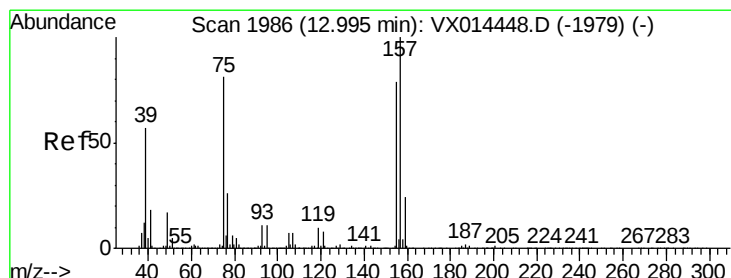
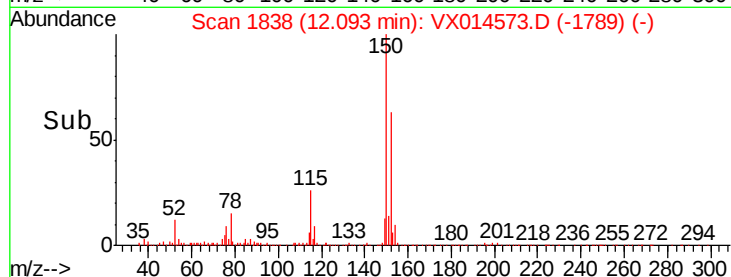
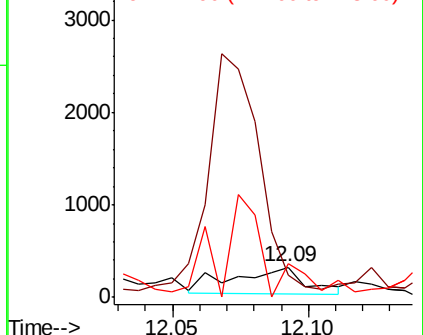
148 0.0 32.1 96.3#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.221 ug/l

RT: 12.99 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

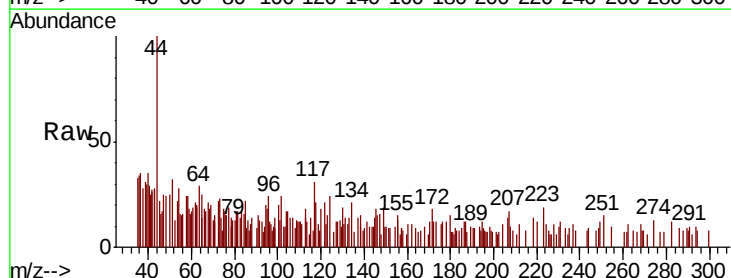
Tgt Ion: 75 Resp: 320

Ion Ratio Lower Upper

75 100

155 66.3 48.7 146.1

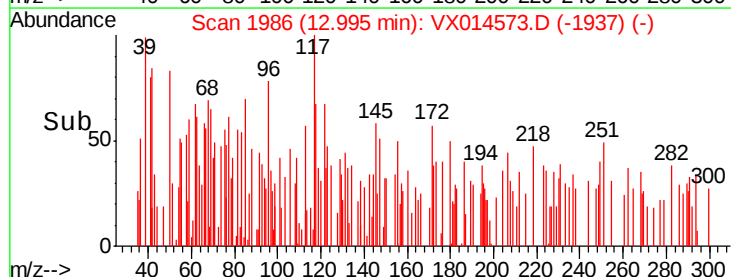
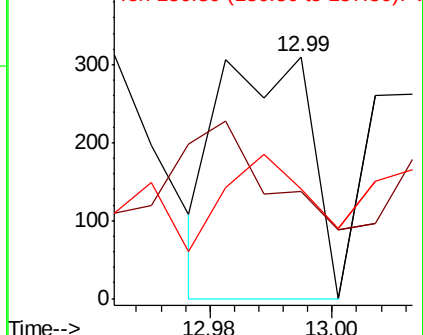
157 63.7 62.0 185.9

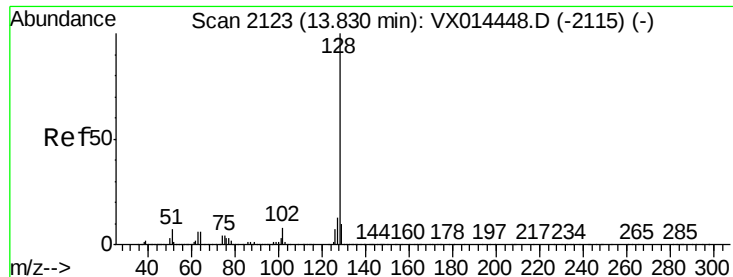


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 0.293 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

Instrument :

MSVOA_X

ClientSampleId :

TP-3

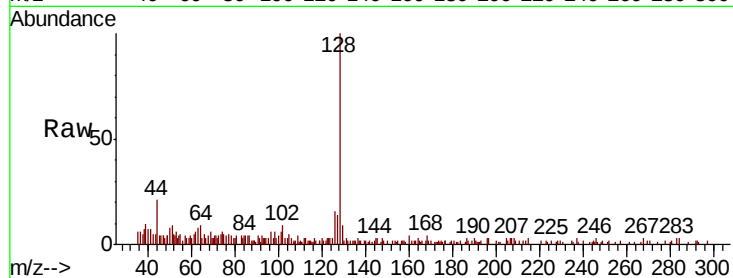
Tot Ion:128 Resp: 6251

Ion Ratio Lower Upper

128 100

127 19.6 10.3 15.5#

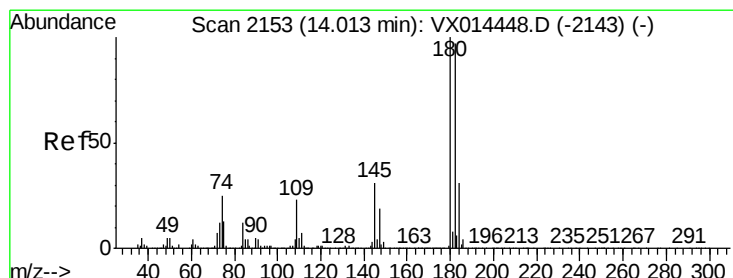
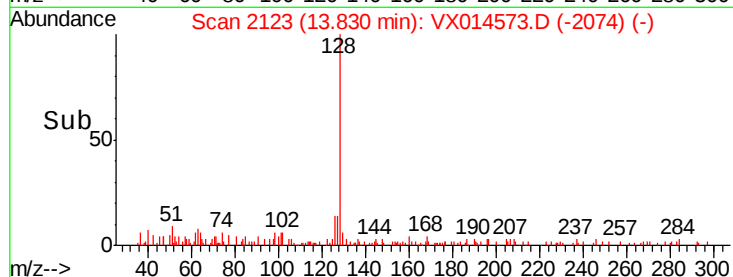
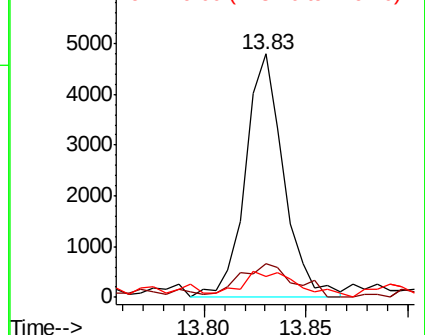
129 15.4 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX014573.D

Acq: 11 Jan 2020 06:18

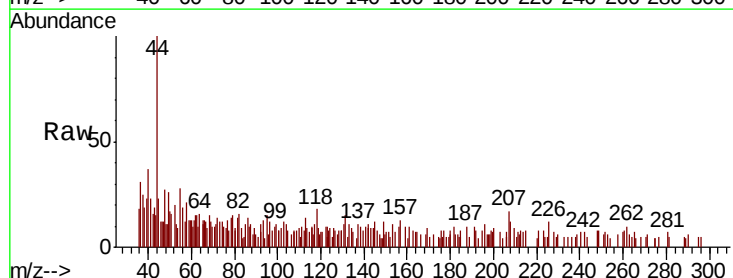
Tgt Ion:180 Resp: 244

Ion Ratio Lower Upper

180 100

182 98.8 47.9 143.6

145 84.8 14.8 44.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

