

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042020\
 Data File : VX015773.D
 Acq On : 20 Apr 2020 18:05
 Operator : JC/SP
 Sample : L2341-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 21 07:59:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	1068963	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	1675754	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1621366	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	937316	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	630422	41.81	ug/l	0.00
Spiked Amount			Recovery	=	83.62%	
35) Dibromofluoromethane	5.47	113	507959	47.42	ug/l	0.00
Spiked Amount			Recovery	=	94.84%	
50) Toluene-d8	8.70	98	2007308	50.90	ug/l	0.00
Spiked Amount			Recovery	=	101.80%	
62) 4-Bromofluorobenzene	11.12	95	847284	52.86	ug/l	0.00
Spiked Amount			Recovery	=	105.72%	

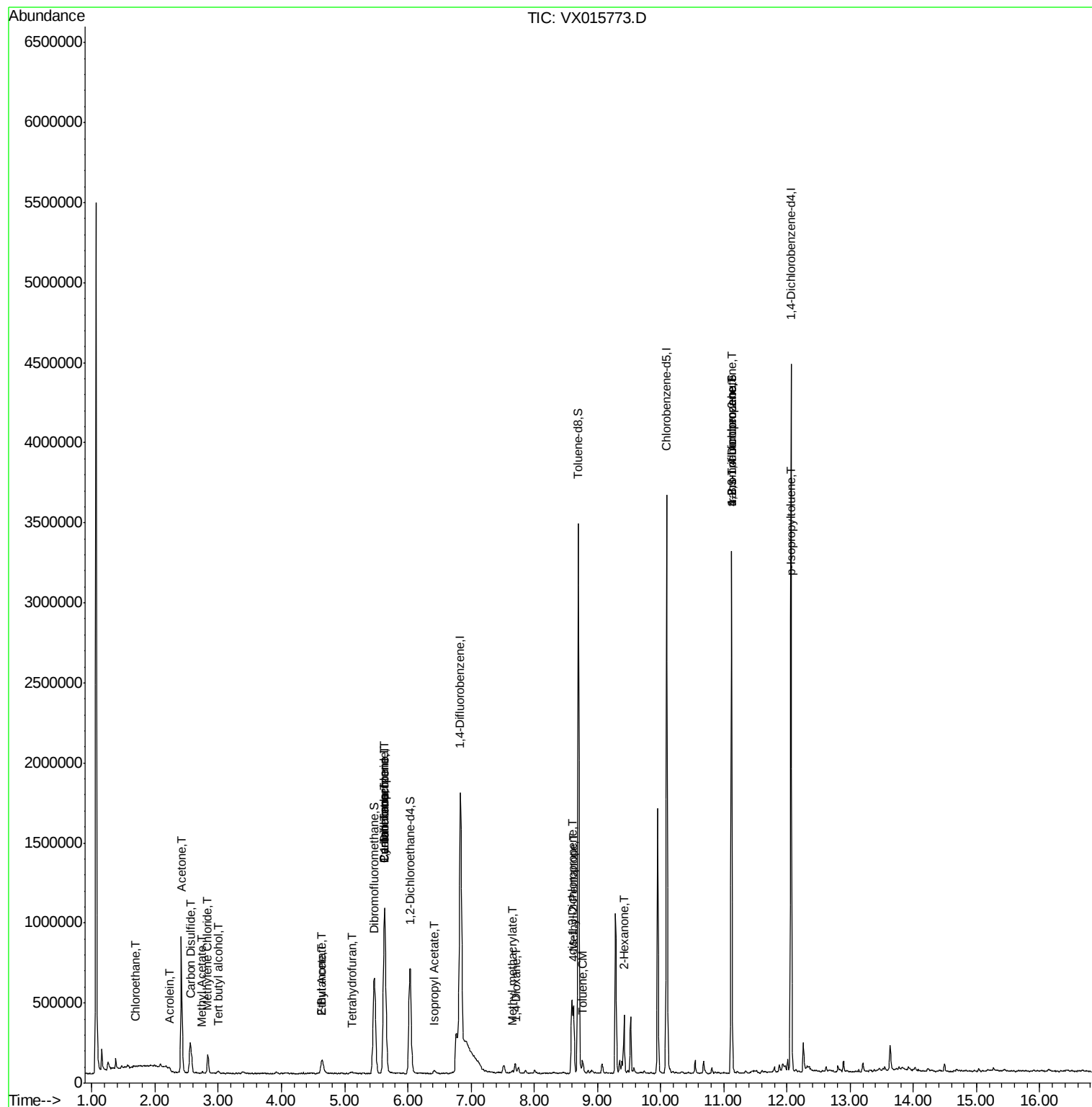
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	2131	Below Cal	#	34
6) Chloroethane	1.69	64	28661	4.196	ug/l #	51
11) Tert butyl alcohol	3.00	59	11350	3.145	ug/l #	82
13) Acrolein	2.22	56	1513	0.736	ug/l #	77
16) Acetone	2.42	43	900408	139.011	ug/l	98
17) Carbon Disulfide	2.55	76	207584	6.743	ug/l	98
18) Methyl Acetate	2.75	43	12866	0.778	ug/l	95
20) Methylene Chloride	2.83	84	54219	4.481	ug/l	89
25) 2-Butanone	4.64	43	139790	13.420	ug/l	94
29) Tetrahydrofuran	5.11	42	4803	0.717	ug/l #	68
31) Cyclohexane	5.64	56	20107	1.054	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	73683	4.772	ug/l #	53
37) Ethyl Acetate	4.64	43	139790	6.953	ug/l #	71
38) Carbon Tetrachloride	5.64	117	96385	5.763	ug/l #	14
43) Isopropyl Acetate	6.42	43	33751	0.994	ug/l	96
48) Methyl methacrylate	7.65	41	20363	1.201	ug/l #	22
49) 1,4-Dioxane	7.72	88	414	1.309	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	409387	21.285	ug/l #	80
52) Toluene	8.77	92	26641	0.955	ug/l	89
54) cis-1,3-Dichloropropene	8.59	75	71326	3.452	ug/l #	51
59) 2-Hexanone	9.42	43	270561	18.633	ug/l #	27
76) 1,2,3-Trichloropropane	11.12	75	423083	21.950	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	423083	52.667	ug/l #	10
86) p-Isopropyltoluene	12.05	119	12250	0.223	ug/l #	78

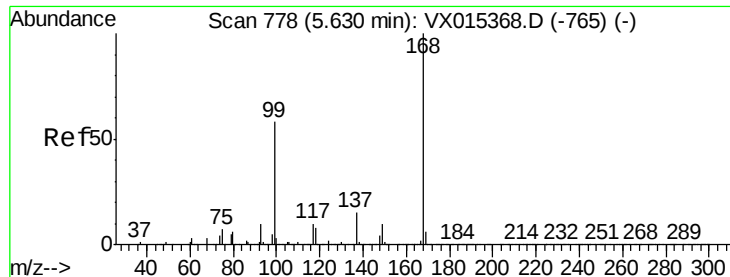
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.00 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

Instrument :

MSVOA_X

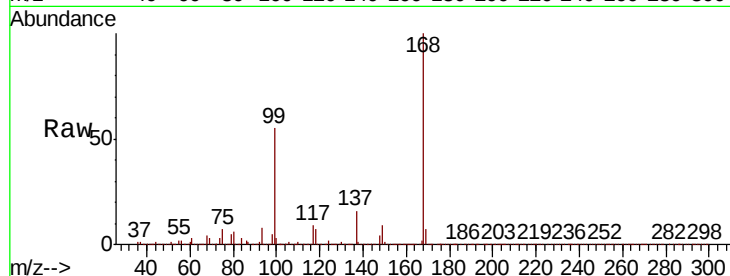
ClientSampleId :

Tot Ion:168 Resp: 1068963

Ion Ratio Lower Upper

168 100

99 54.7 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

300000

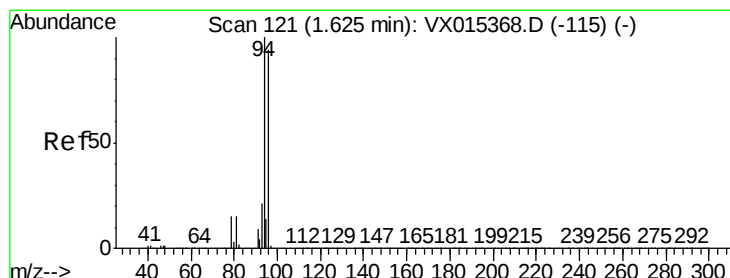
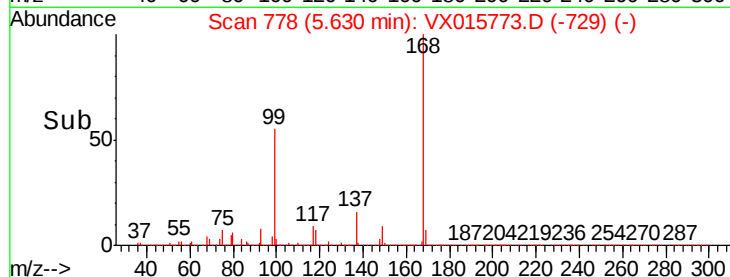
200000

100000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX015773.D

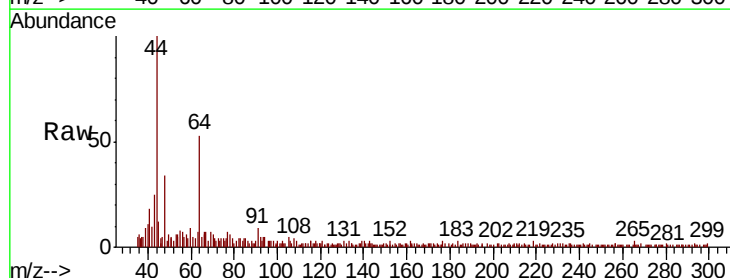
Acq: 20 Apr 2020 18:05

Tgt Ion: 94 Resp: 2131

Ion Ratio Lower Upper

94 100

96 30.1 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

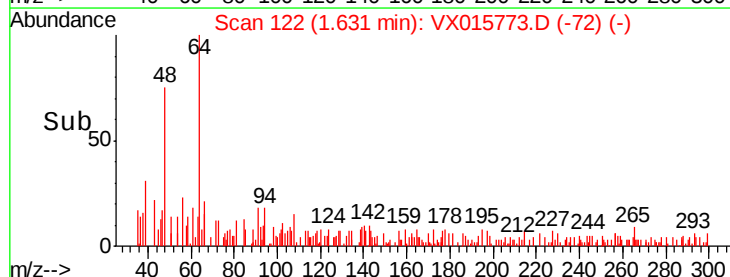
1000

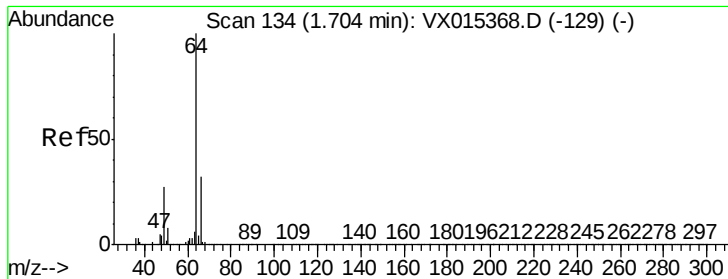
500

0

1.60 1.65

Time-->





#6

Chloroethane

Concen: 4.196 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

Instrument :

MSVOA_X

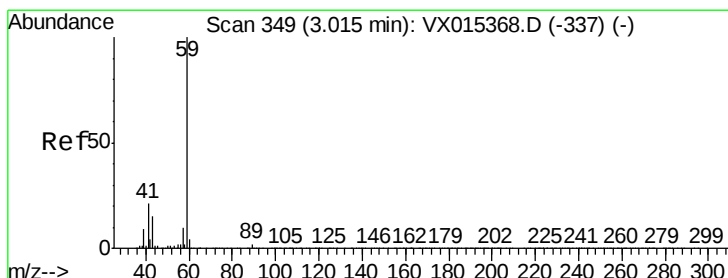
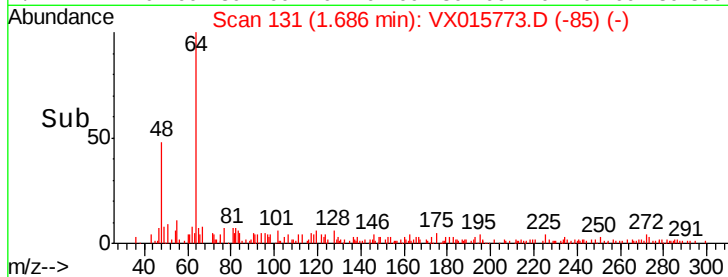
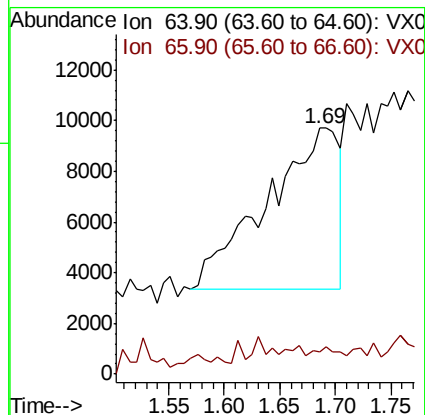
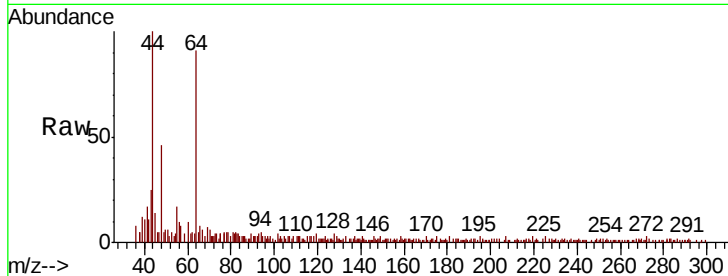
ClientSampleId :

Tot Ion: 64 Resp: 28661

Ion Ratio Lower Upper

64 100

66 4.4 25.4 38.2#



#11

Tert butyl alcohol

Concen: 3.145 ug/l

RT: 3.00 min Scan# 346

Delta R.T. -0.02 min

Lab File: VX015773.D

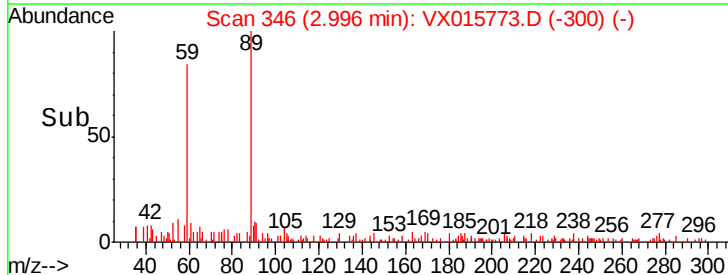
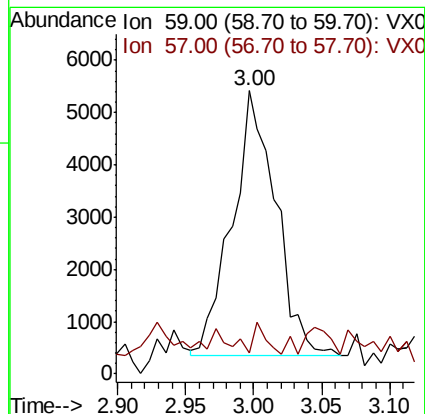
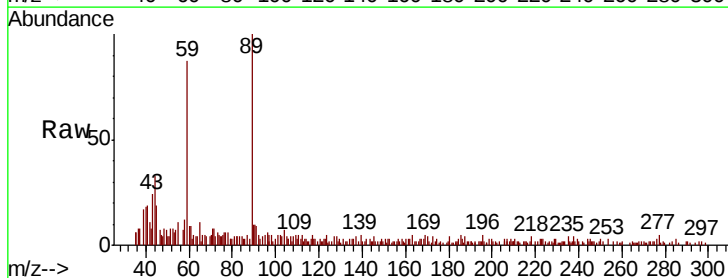
Acq: 20 Apr 2020 18:05

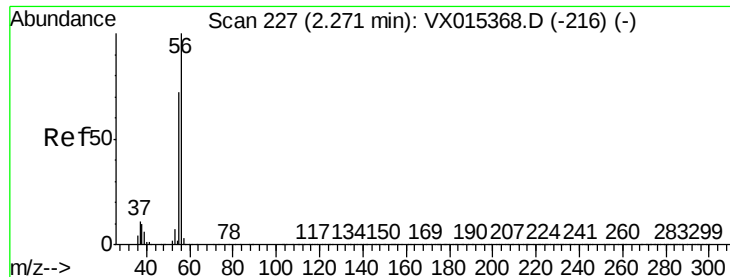
Tgt Ion: 59 Resp: 11350

Ion Ratio Lower Upper

59 100

57 3.2 8.1 12.1#

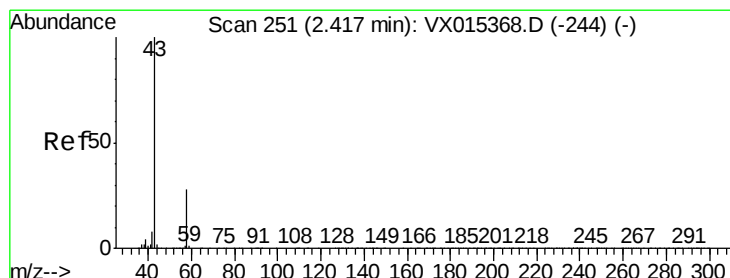
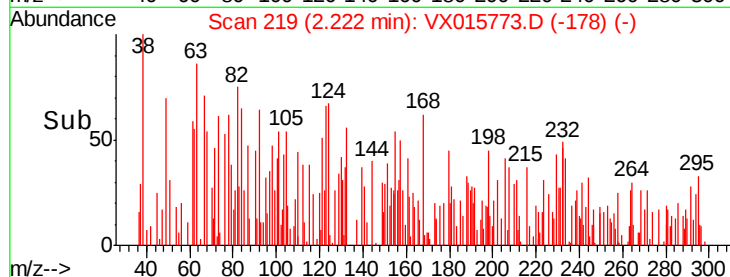
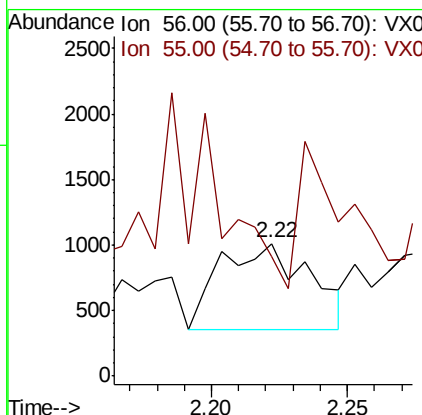
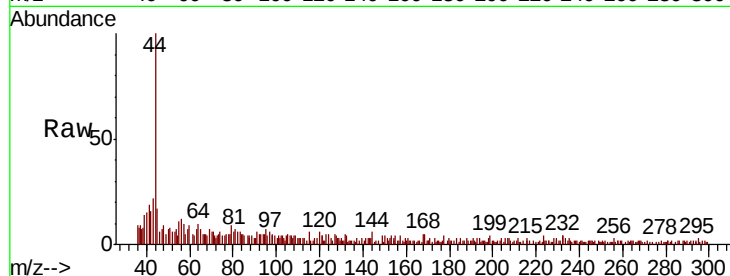




#13
Acrolein
Concen: 0.736 ug/l
RT: 2.22 min Scan# 219
Delta R.T. -0.05 min
Lab File: VX015773.D
Acq: 20 Apr 2020 18:05

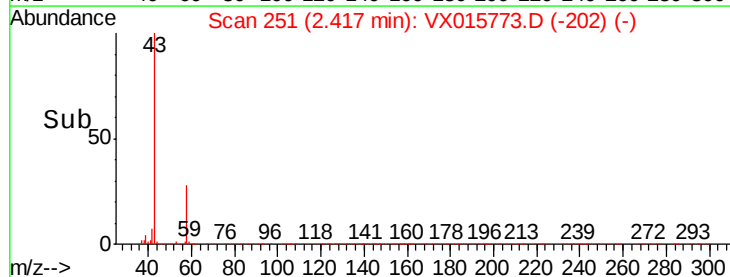
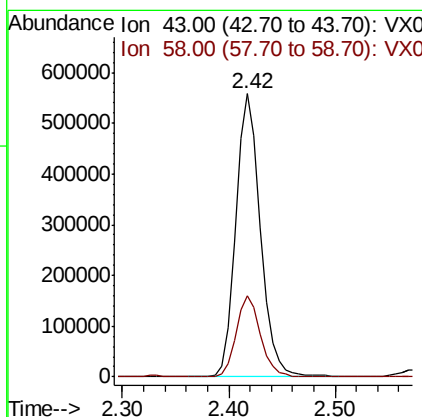
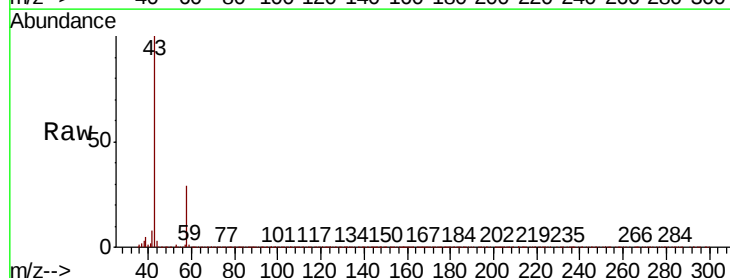
Instrument :
MSVOA_X
ClientSampleId :

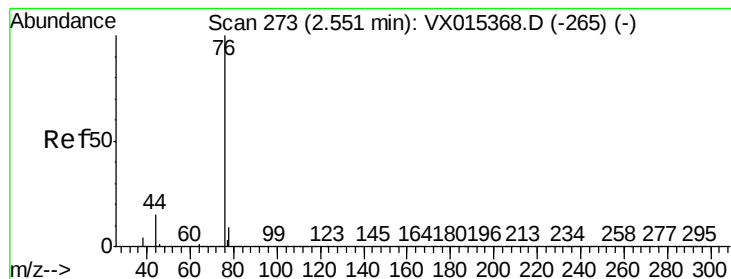
Tot Ion: 56 Resp: 1513
Ion Ratio Lower Upper
56 100
55 90.2 57.0 85.4#



#16
Acetone
Concen: 139.011 ug/l
RT: 2.42 min Scan# 251
Delta R.T. -0.00 min
Lab File: VX015773.D
Acq: 20 Apr 2020 18:05

Tgt Ion: 43 Resp: 900408
Ion Ratio Lower Upper
43 100
58 28.4 22.1 33.1





#17

Carbon Disulfide

Concen: 6.743 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

Instrument :

MSVOA_X

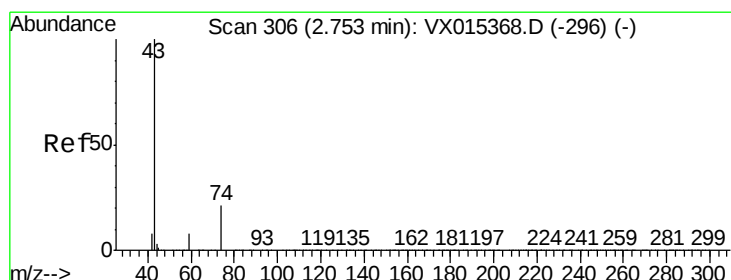
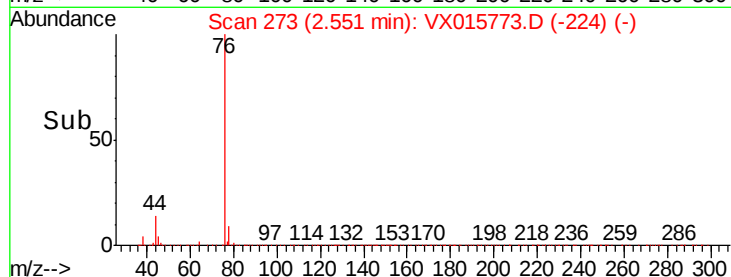
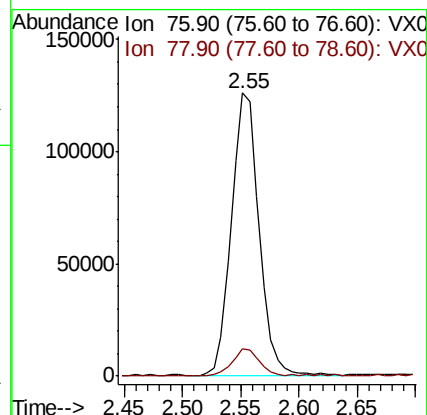
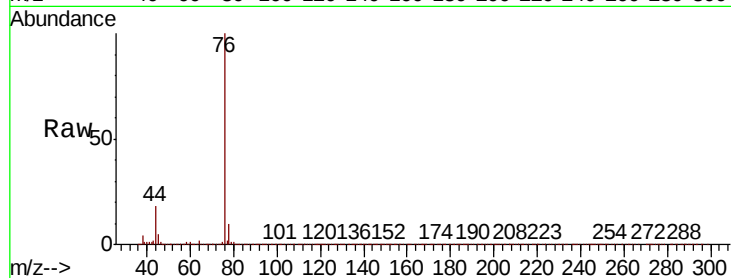
ClientSampled :

Tot Ion: 76 Resp: 207584

Ion Ratio Lower Upper

76 100

78 9.5 7.1 10.7



#18

Methyl Acetate

Concen: 0.778 ug/l

RT: 2.75 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX015773.D

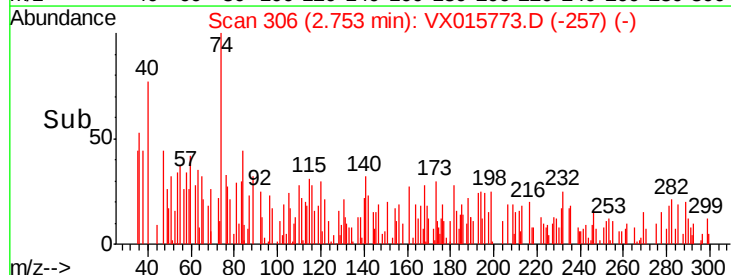
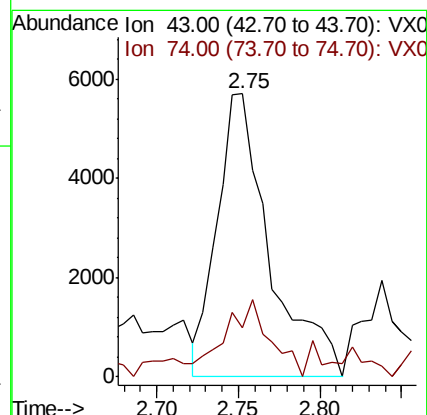
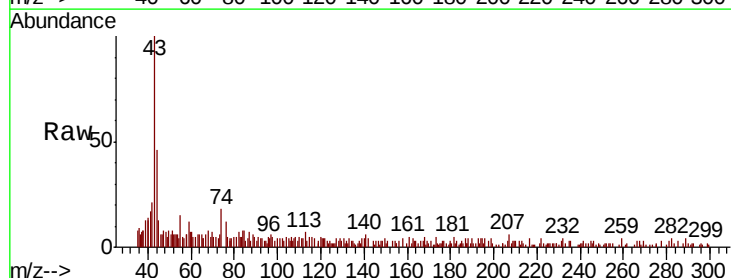
Acq: 20 Apr 2020 18:05

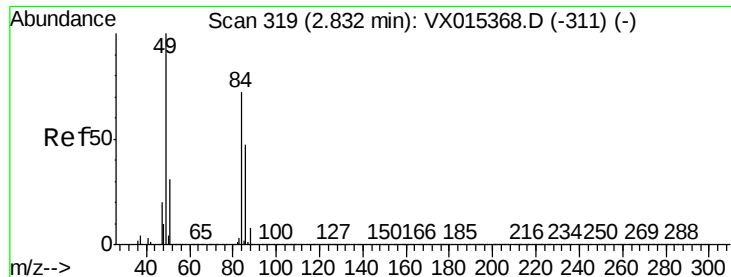
Tgt Ion: 43 Resp: 12866

Ion Ratio Lower Upper

43 100

74 22.9 16.5 24.7

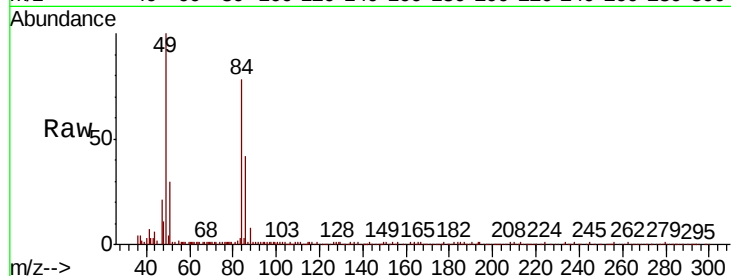




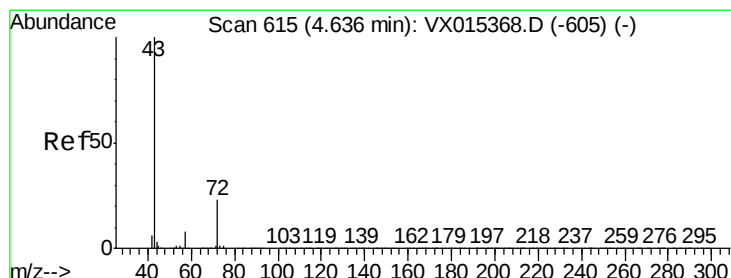
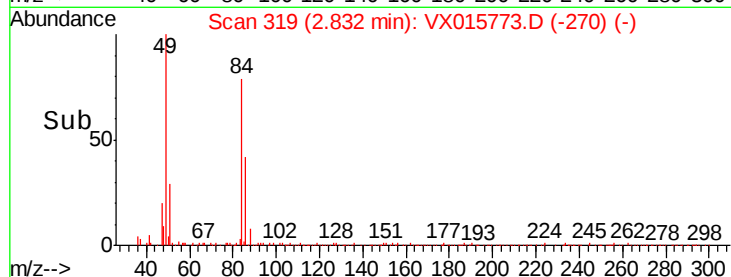
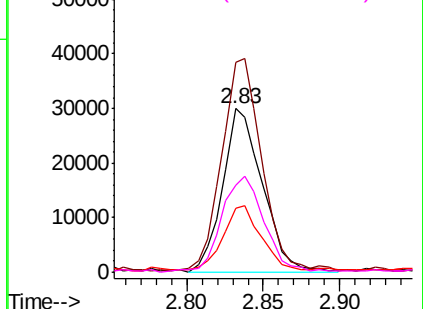
#20
Methvlene Chloride
Concen: 4.481 ug/l
RT: 2.83 min Scan# 319
Delta R.T. -0.00 min
Lab File: VX015773.D
Acq: 20 Apr 2020 18:05

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	84	Resp:	54219
Ion	Ratio	Lower	Upper
84	100		
49	127.1	111.3	166.9
51	37.5	34.0	51.0
86	52.5	52.5	78.7

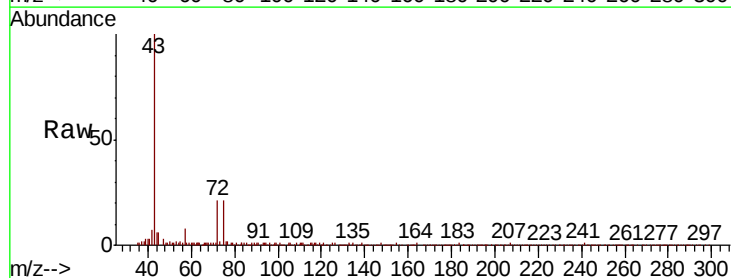


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

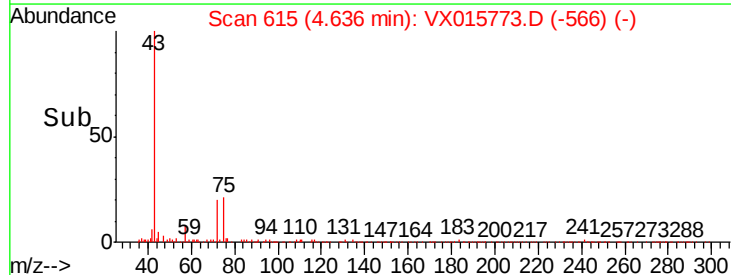
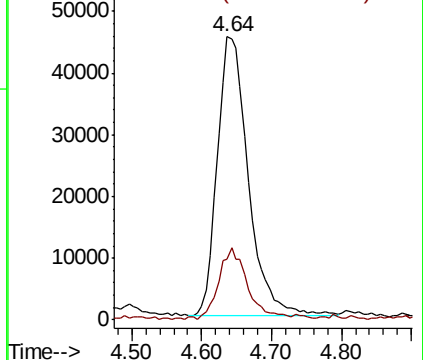


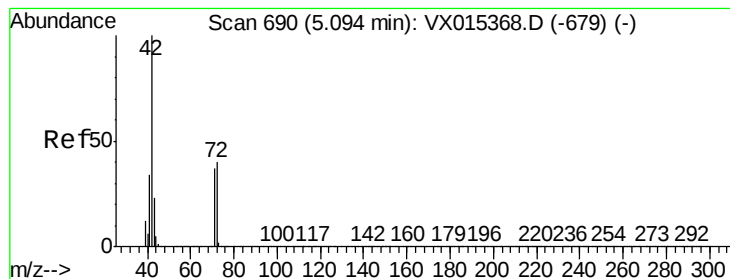
#25
2-Butanone
Concen: 13.420 ug/l
RT: 4.64 min Scan# 615
Delta R.T. -0.00 min
Lab File: VX015773.D
Acq: 20 Apr 2020 18:05

Tgt Ion:	43	Resp:	139790
Ion	Ratio	Lower	Upper
43	100		
72	20.8	19.0	28.4



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





#29

Tetrahydrofuran

Concen: 0.717 ug/l

RT: 5.11 min Scan# 693

Delta R.T. 0.02 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

Instrument :

MSVOA_X

ClientSampleId :

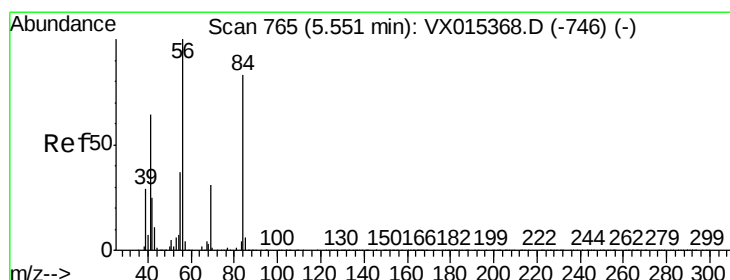
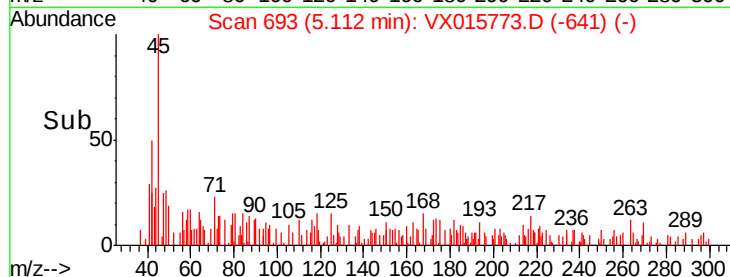
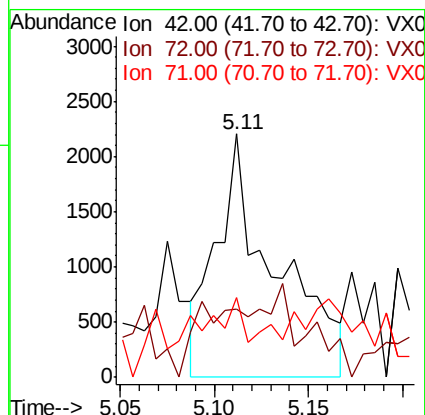
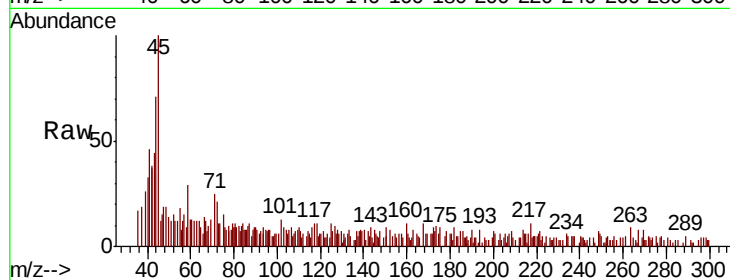
Tot Ion: 42 Resp: 4803

Ion Ratio Lower Upper

42 100

72 12.2 31.7 47.5#

71 26.2 29.6 44.4#



#31

Cyclohexane

Concen: 1.054 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.09 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

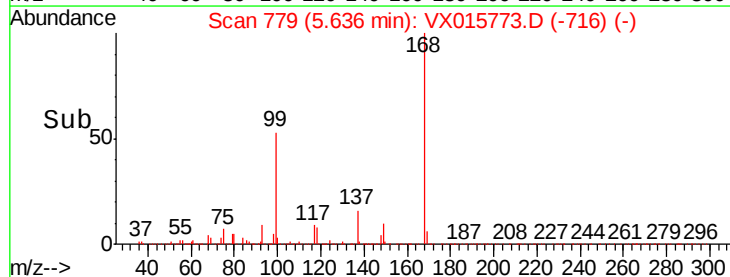
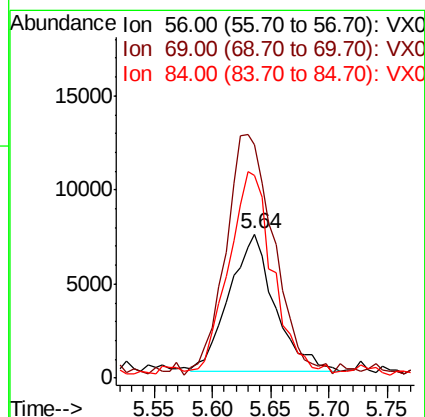
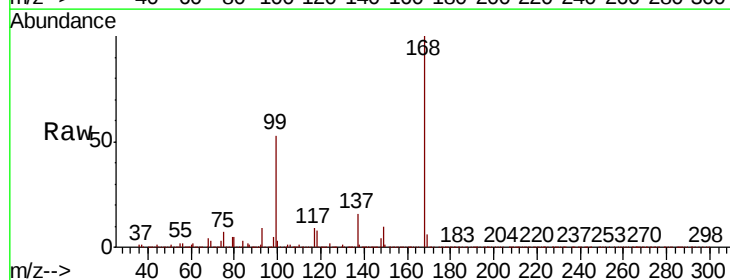
Tgt Ion: 56 Resp: 20107

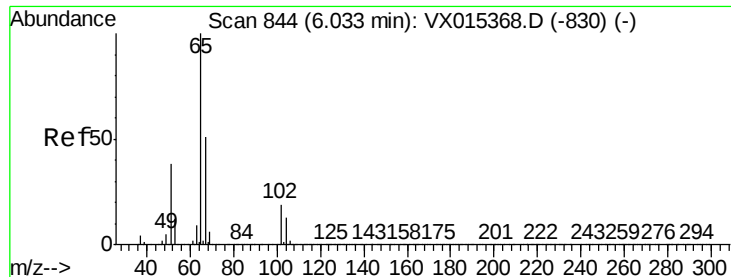
Ion Ratio Lower Upper

56 100

69 162.6 24.6 36.8#

84 142.8 66.1 99.1#





#33

1,2-Dichloroethane-d4

Concen: 41.815 ug/l

RT: 6.03 min Scan# 844

Delta R.T. -0.00 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

Instrument :

MSVOA_X

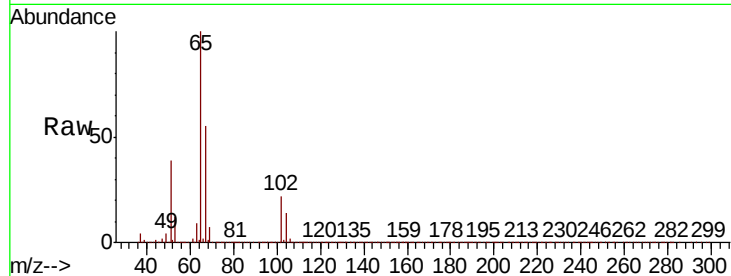
ClientSampleId :

Tot Ion: 65 Resp: 630422

Ion Ratio Lower Upper

65 100

67 52.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

250000

200000

150000

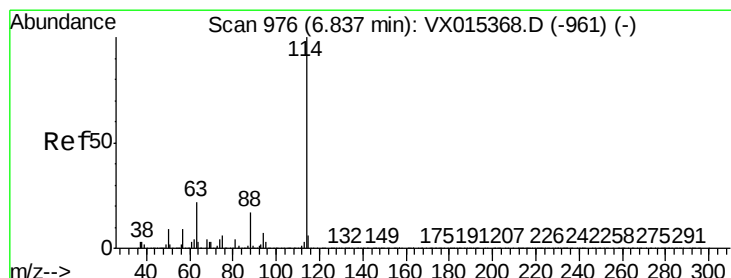
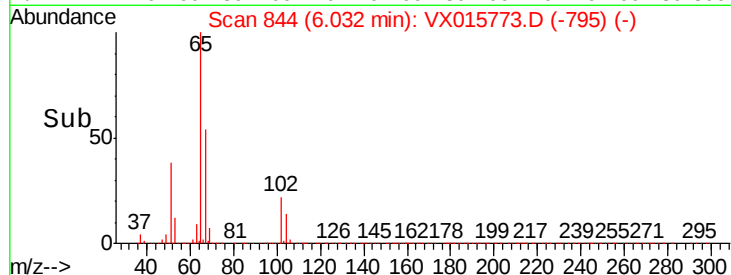
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 975

Delta R.T. -0.01 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

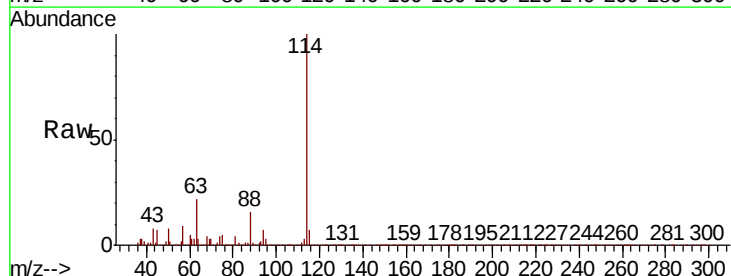
Tgt Ion: 114 Resp: 1675754

Ion Ratio Lower Upper

114 100

63 21.5 0.0 44.2

88 15.6 0.0 33.8



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

6.83

800000

600000

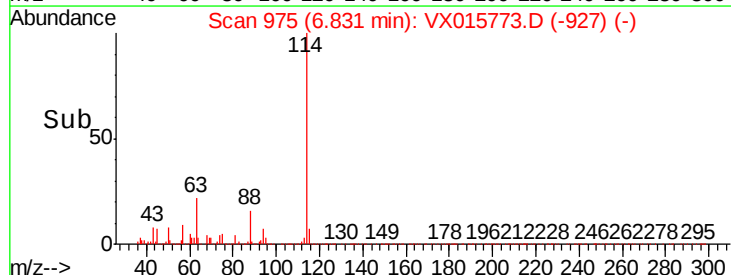
400000

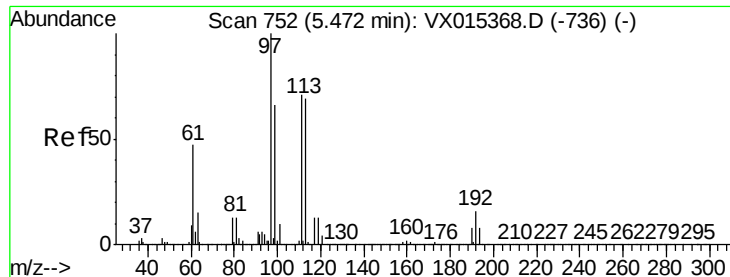
200000

0

Time-->

6.70 6.80 6.90

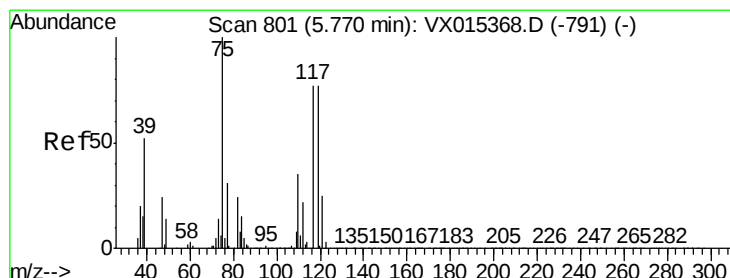
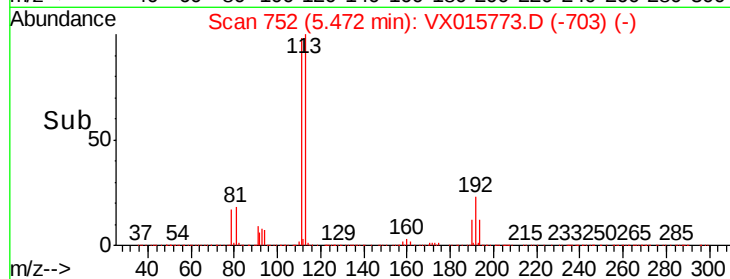
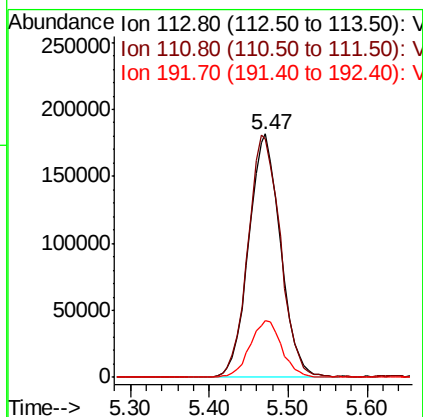
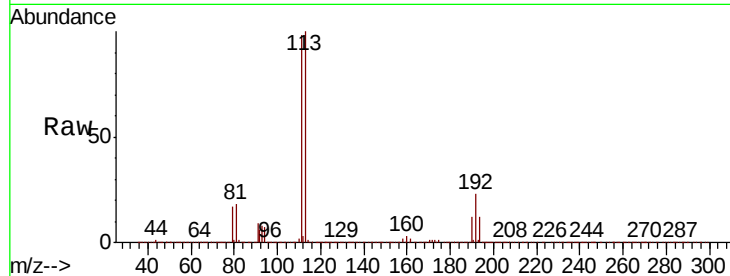




#35
 Dibromofluoromethane
 Concen: 47.420 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: VX015773.D
 Acq: 20 Apr 2020 18:05

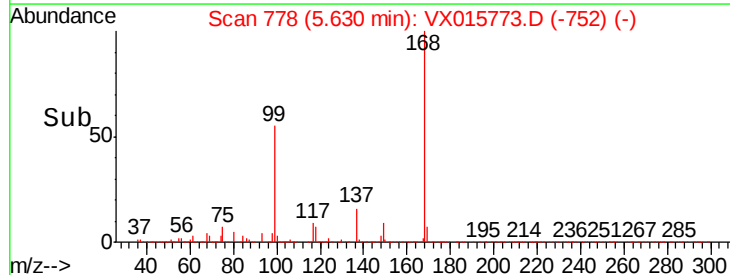
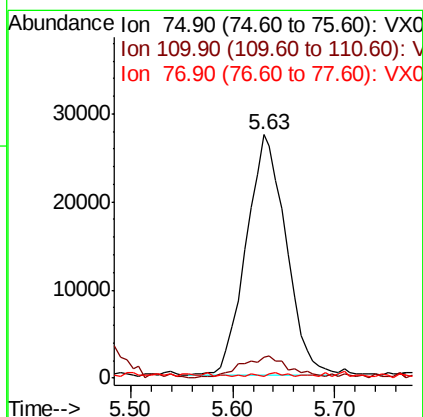
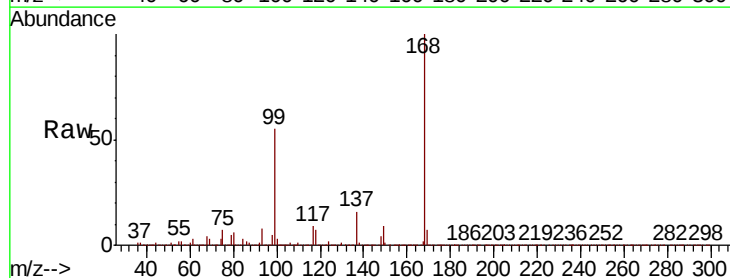
Instrument :
 MSVOA_X
 ClientSampleId :

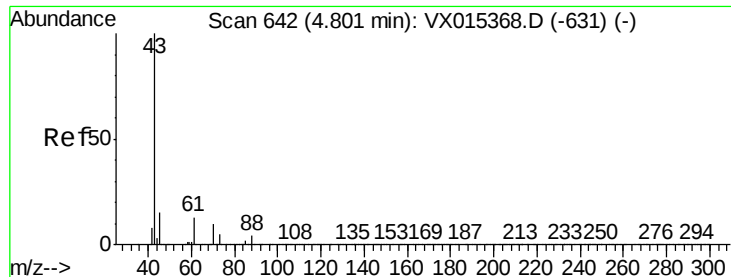
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.5	122.3
192	23.4	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 4.772 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.14 min
 Lab File: VX015773.D
 Acq: 20 Apr 2020 18:05

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.1	17.1	51.3#
77	0.5	24.6	36.8#

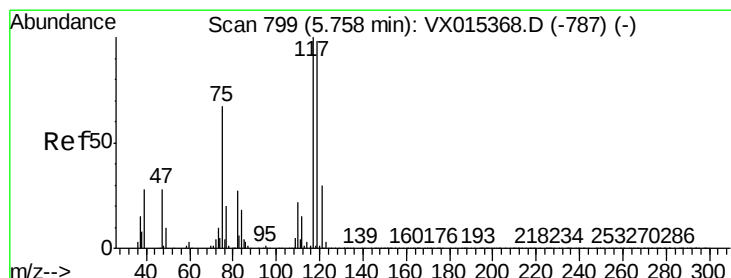
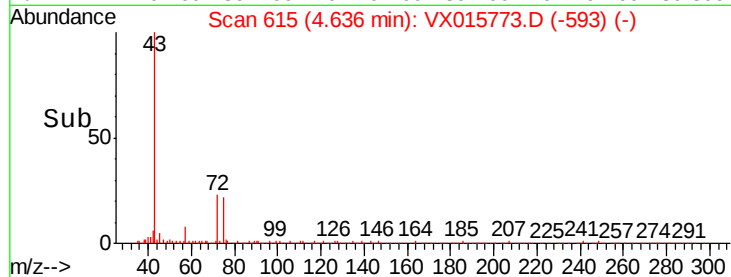
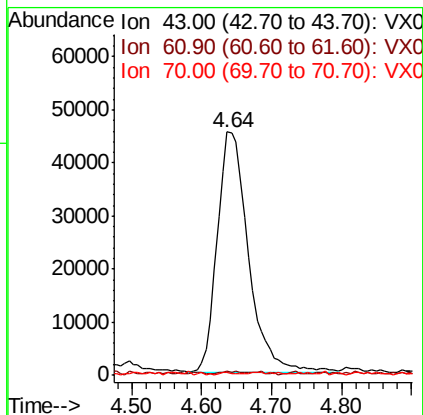
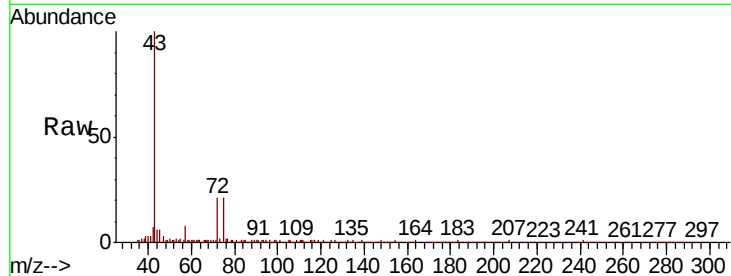




#37
Ethyl Acetate
Concen: 6.953 ug/l
RT: 4.64 min Scan# 615
Delta R.T. -0.16 min
Lab File: VX015773.D
Acq: 20 Apr 2020 18:05

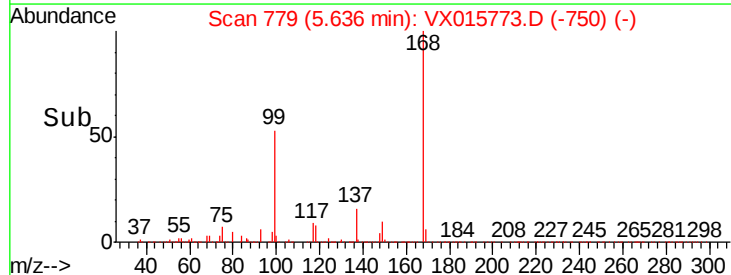
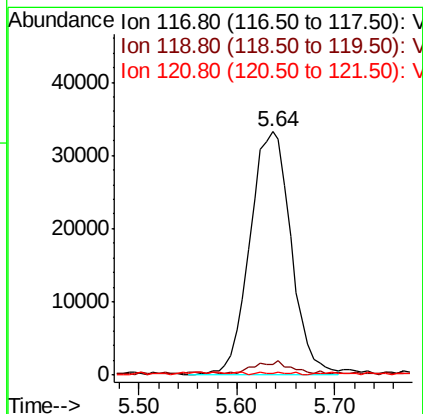
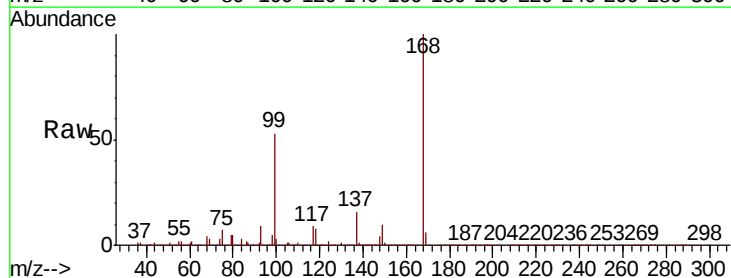
Instrument :
MSVOA_X
ClientSampleId :

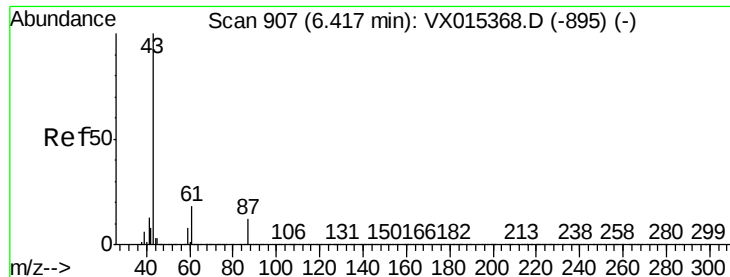
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.2	9.9	14.9#
70	0.6	8.1	12.1#



#38
Carbon Tetrachloride
Concen: 5.763 ug/l
RT: 5.64 min Scan# 779
Delta R.T. -0.12 min
Lab File: VX015773.D
Acq: 20 Apr 2020 18:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.3	78.0	117.0#
121	0.0	23.8	35.8#



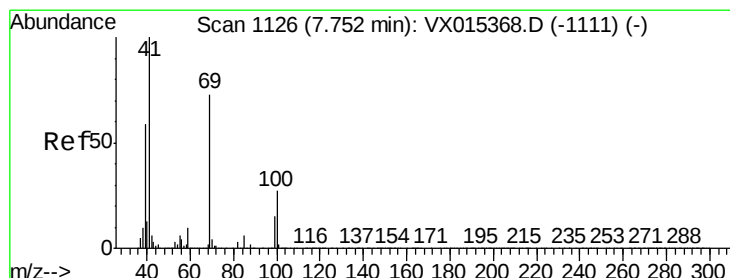
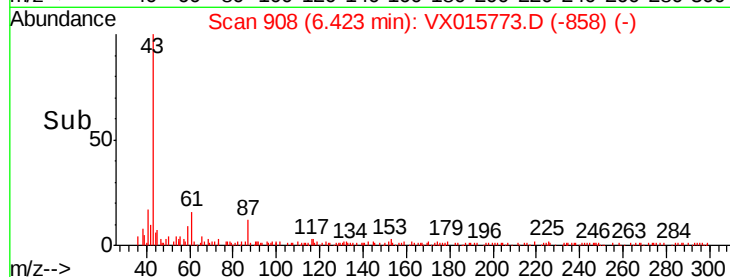
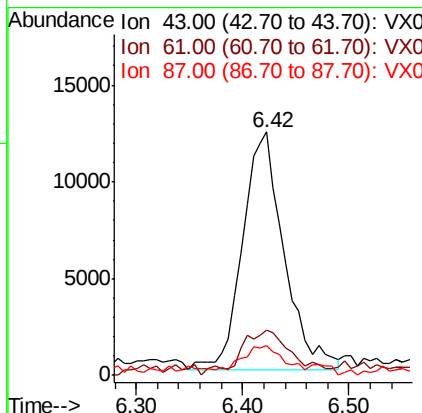
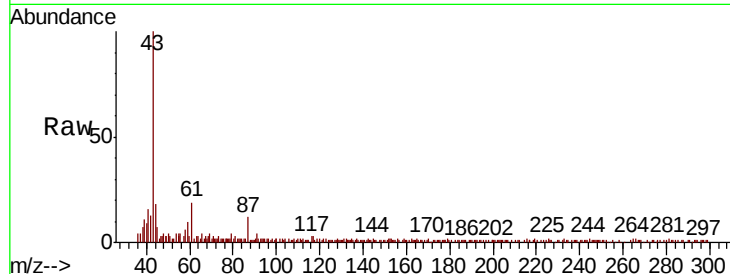


#43

Isopropyl Acetate
 Concen: 0.994 ug/l
 RT: 6.42 min Scan# 908
 Delta R.T. 0.01 min
 Lab File: VX015773.D
 Acq: 20 Apr 2020 18:05

Instrument :
 MSVOA_X
 ClientSampleId :

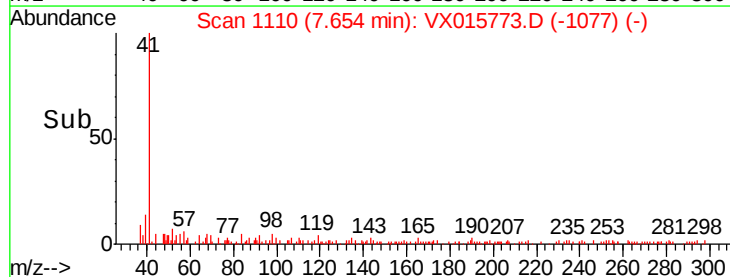
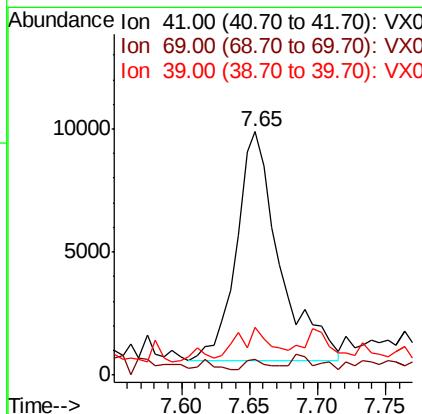
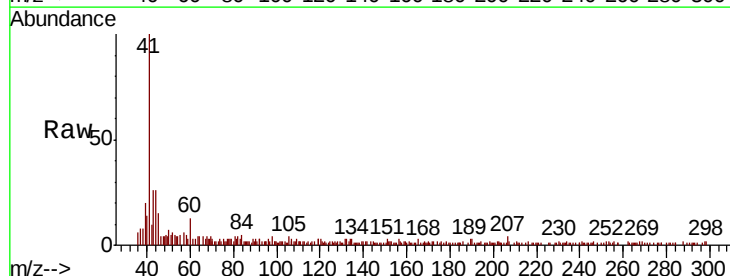
Tot Ion	Ratio	Lower	Upper
43	100		
61	16.2	14.8	22.2
87	11.0	9.4	14.0

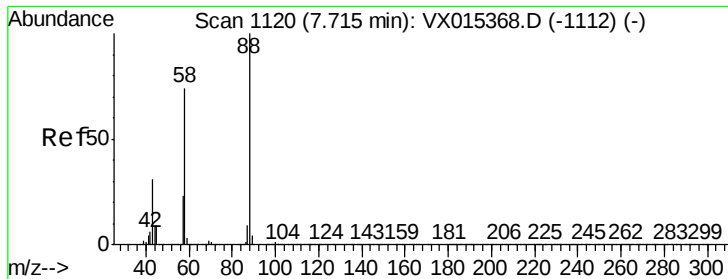


#48

Methyl methacrylate
 Concen: 1.201 ug/l
 RT: 7.65 min Scan# 1110
 Delta R.T. -0.10 min
 Lab File: VX015773.D
 Acq: 20 Apr 2020 18:05

Tgt Ion	Ratio	Lower	Upper
41	100		
69	2.7	56.7	85.1#
39	3.8	46.5	69.7#





#49

1,4-Dioxane

Concen: 1.309 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

Instrument :

MSVOA_X

ClientSampleId :

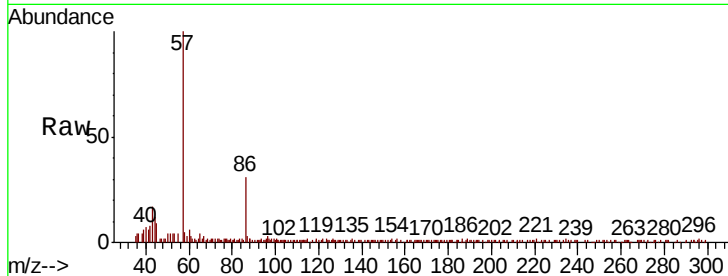
Tot Ion: 88 Resp: 414

Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

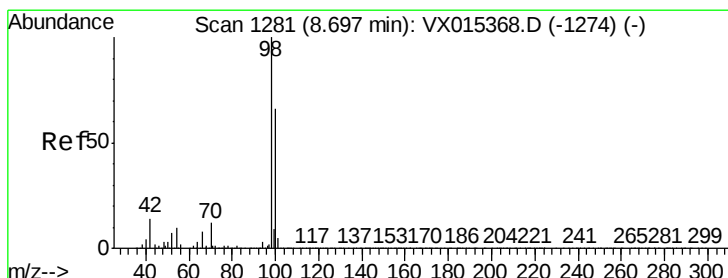
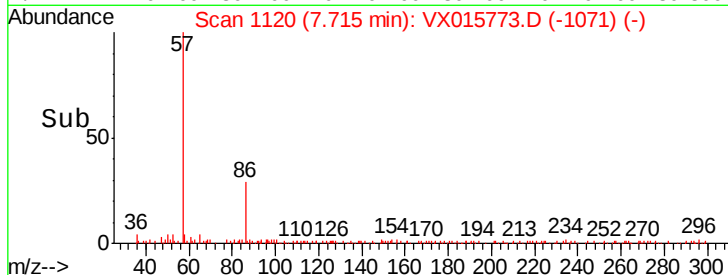
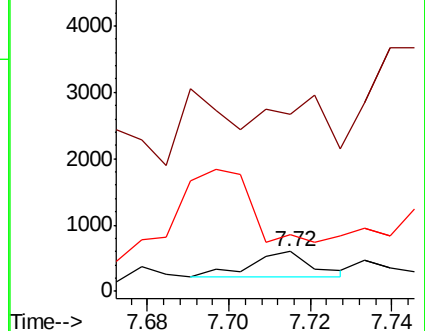
58 505.8 60.6 90.8#



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: 50.897 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015773.D

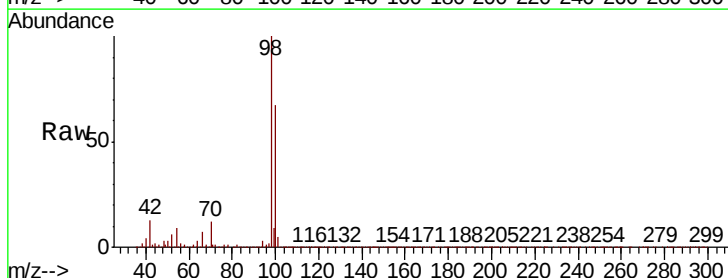
Acq: 20 Apr 2020 18:05

Tgt Ion: 98 Resp: 2007308

Ion Ratio Lower Upper

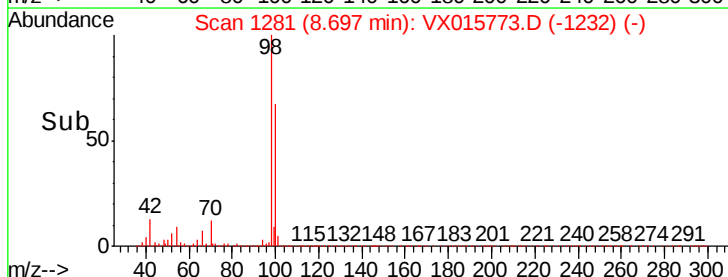
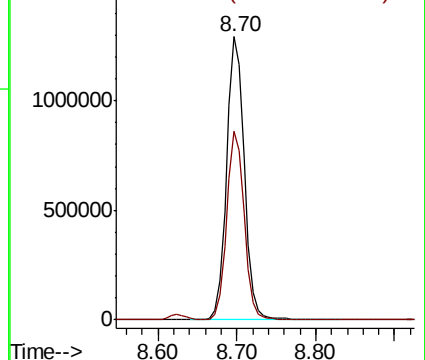
98 100

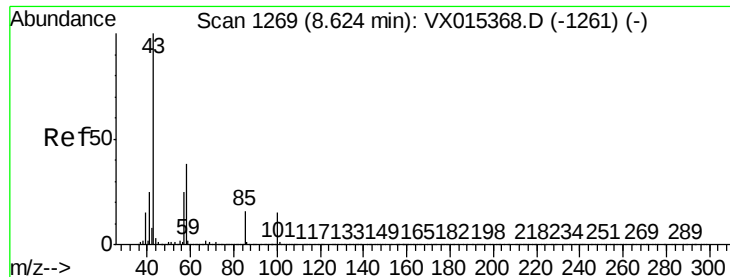
100 66.1 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

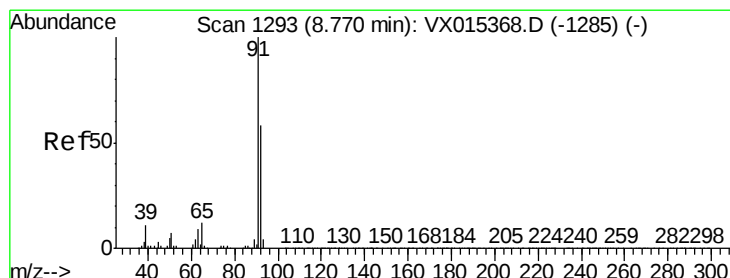
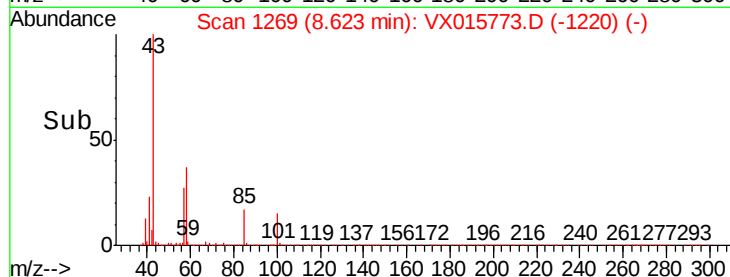
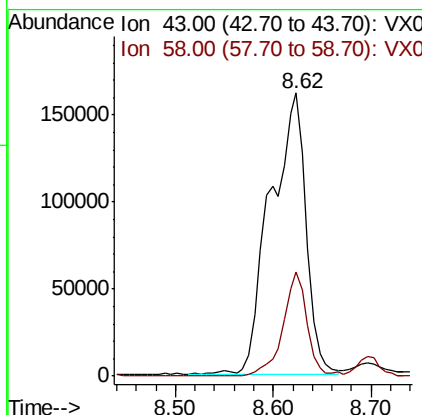
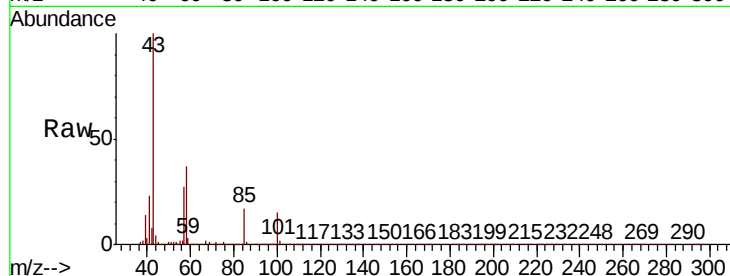




#51
4-Methyl-2-Pentanone
Concen: 21.285 ug/l
RT: 8.62 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VX015773.D
Acq: 20 Apr 2020 18:05

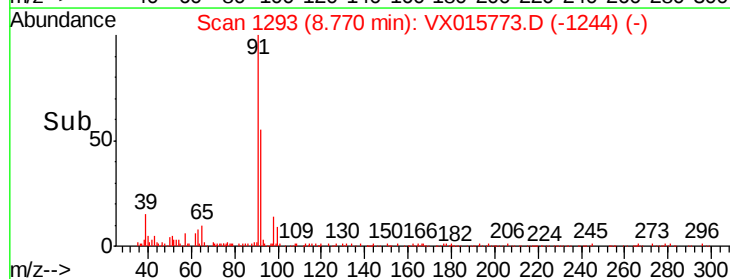
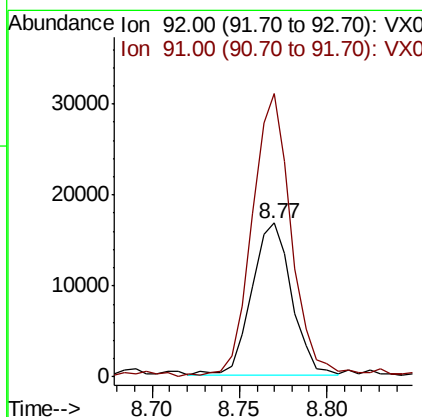
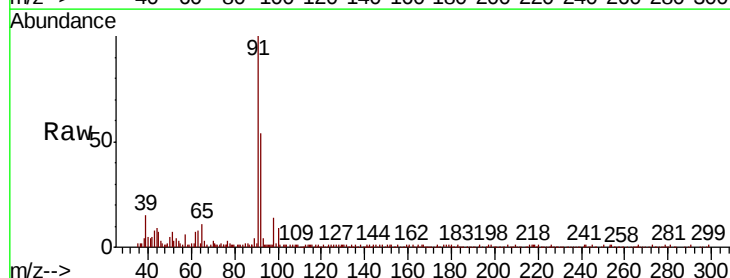
Instrument :
MSVOA_X
ClientSampleId :

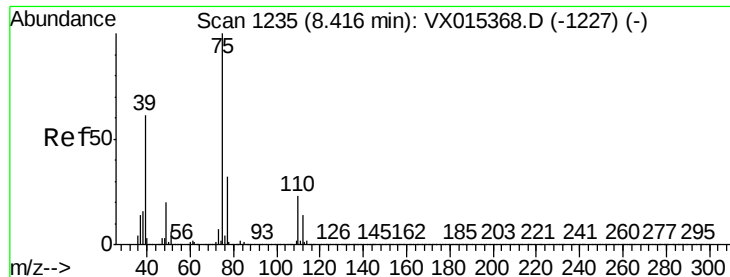
Tot Ion: 43 Resp: 409387
Ion Ratio Lower Upper
43 100
58 25.3 29.7 44.5#



#52
Toluene
Concen: 0.955 ug/l
RT: 8.77 min Scan# 1293
Delta R.T. -0.00 min
Lab File: VX015773.D
Acq: 20 Apr 2020 18:05

Tgt Ion: 92 Resp: 26641
Ion Ratio Lower Upper
92 100
91 185.9 136.6 205.0



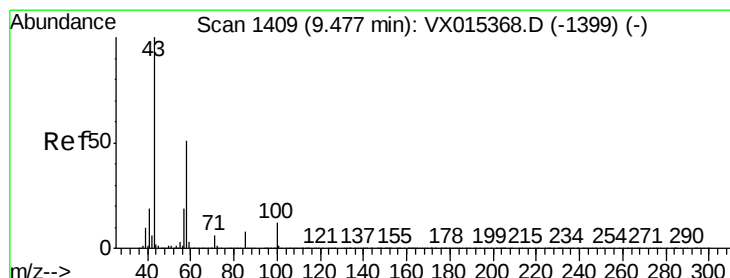
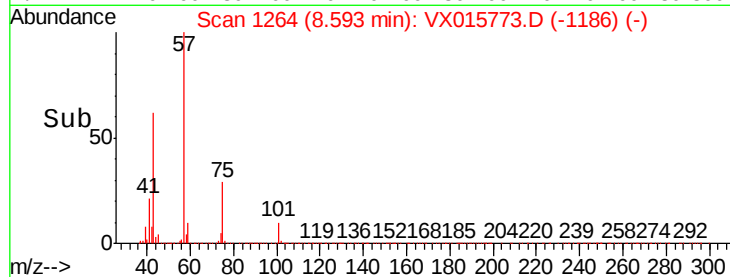
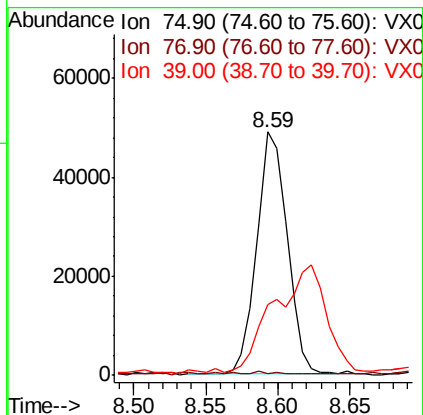
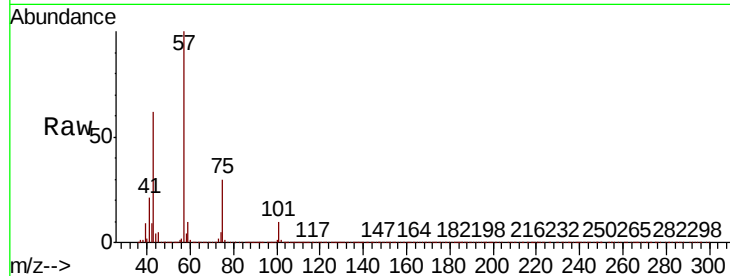


#54

cis-1,3-Dichloropropene
 Concen: 3.452 ug/l
 RT: 8.59 min Scan# 1264
 Delta R.T. 0.18 min
 Lab File: VX015773.D
 Acq: 20 Apr 2020 18:05

Instrument :
 MSVOA_X
 ClientSampleId :

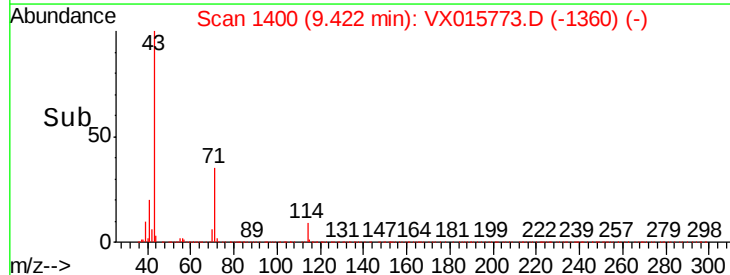
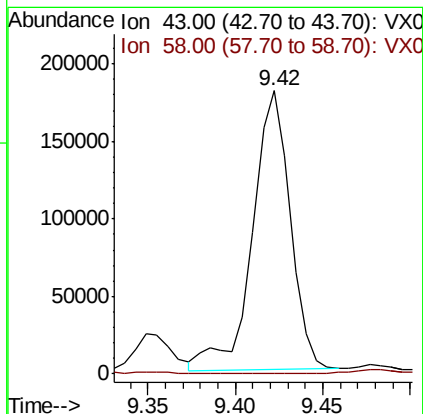
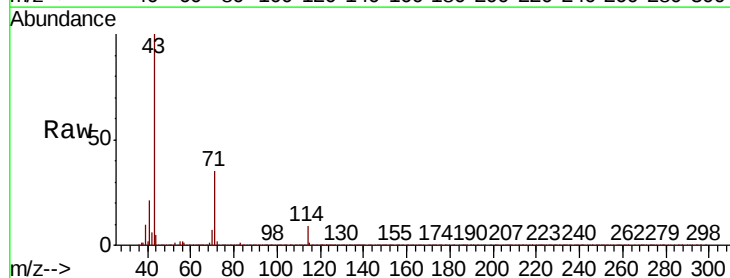
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.1	25.8	38.6#
39	26.8	49.0	73.4#

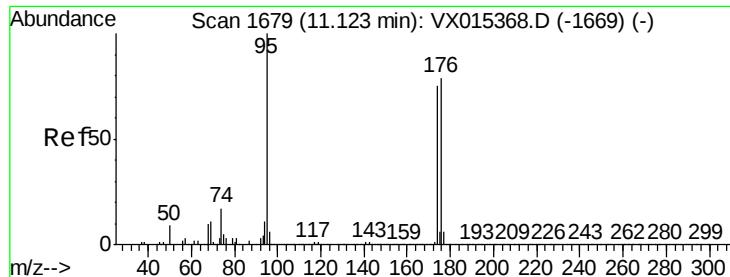


#59

2-Hexanone
 Concen: 18.633 ug/l
 RT: 9.42 min Scan# 1400
 Delta R.T. -0.05 min
 Lab File: VX015773.D
 Acq: 20 Apr 2020 18:05

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.2	25.6	76.6#





#62

4-Bromofluorobenzene

Concen: 52.863 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

Instrument :

MSVOA_X

ClientSampled :

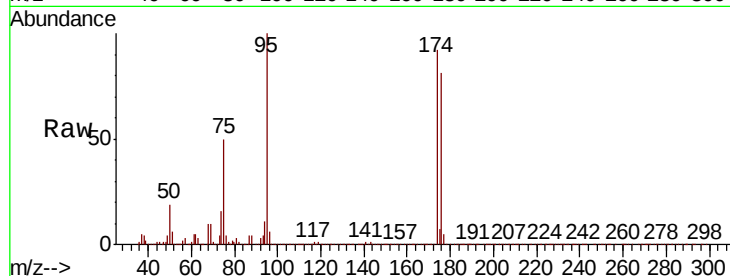
Tot Ion: 95 Resp: 847284

Ion Ratio Lower Upper

95 100

174 86.6 0.0 158.6

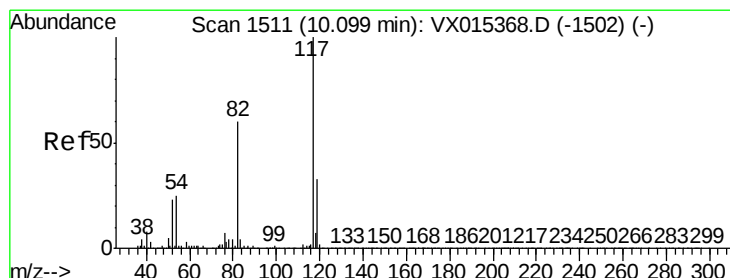
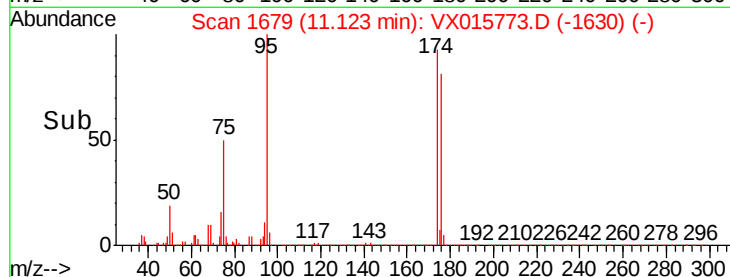
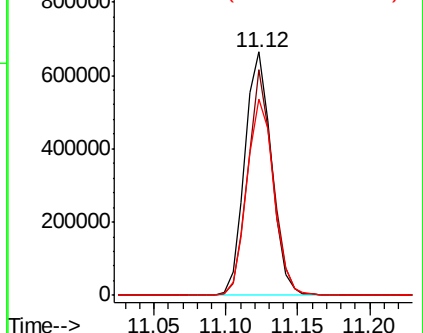
176 82.0 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

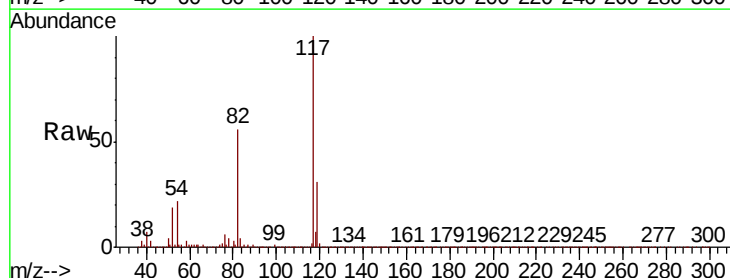
Tgt Ion: 117 Resp: 1621366

Ion Ratio Lower Upper

117 100

82 56.0 47.8 71.8

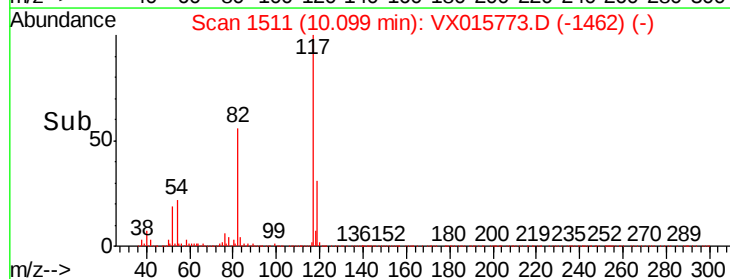
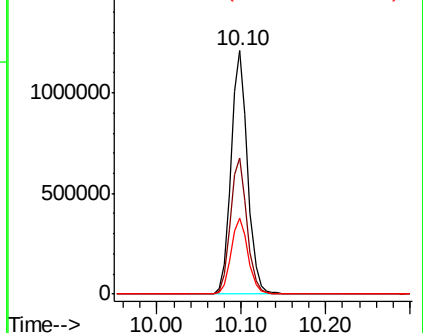
119 31.4 26.8 40.2

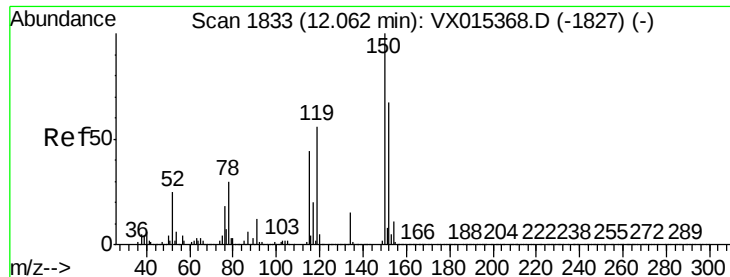


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

Instrument :

MSVOA_X

ClientSampleId :

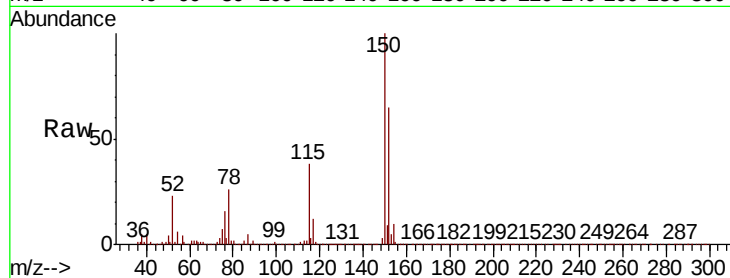
Tot Ion:152 Resp: 937316

Ion Ratio Lower Upper

152 100

115 55.0 39.0 116.9

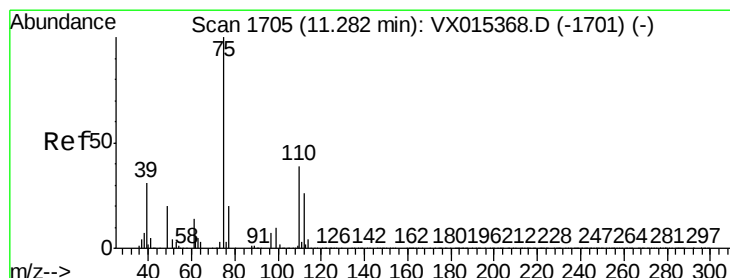
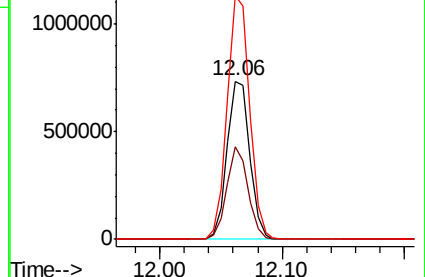
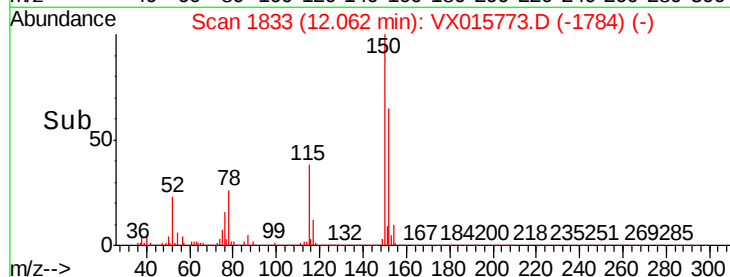
150 152.0 0.0 340.8



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



#76

1,2,3-Trichloropropane

Concen: 21.950 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015773.D

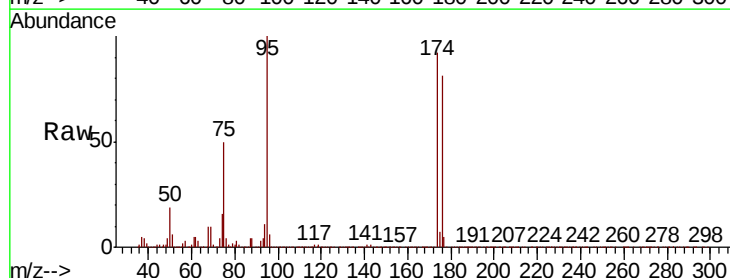
Acq: 20 Apr 2020 18:05

Tgt Ion: 75 Resp: 423083

Ion Ratio Lower Upper

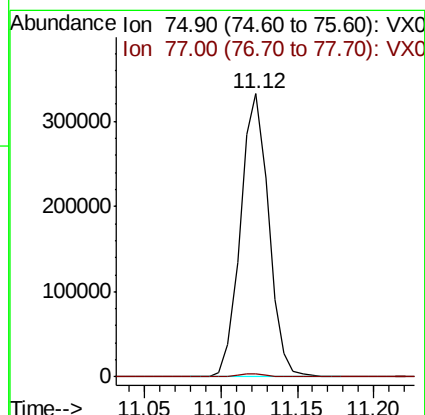
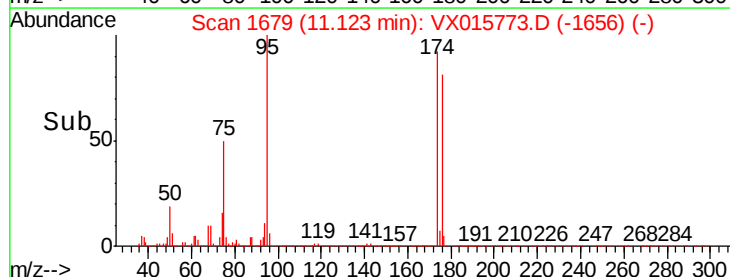
75 100

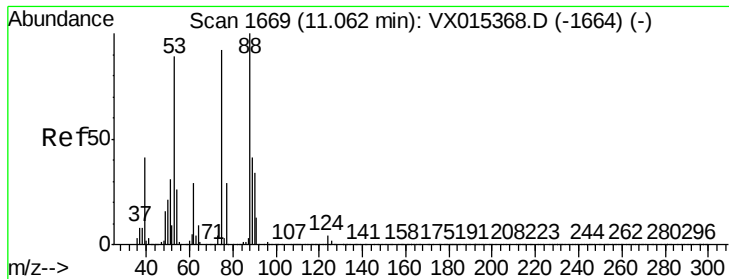
77 1.2 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 52.667 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

Instrument :

MSVOA_X

ClientSampleId :

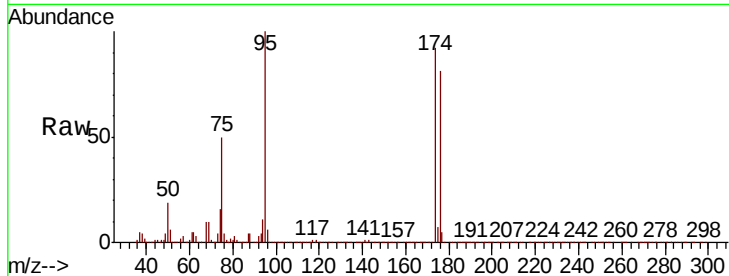
Tot Ion: 75 Resp: 423083

Ion Ratio Lower Upper

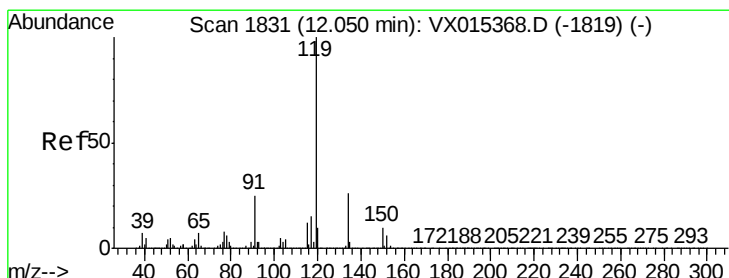
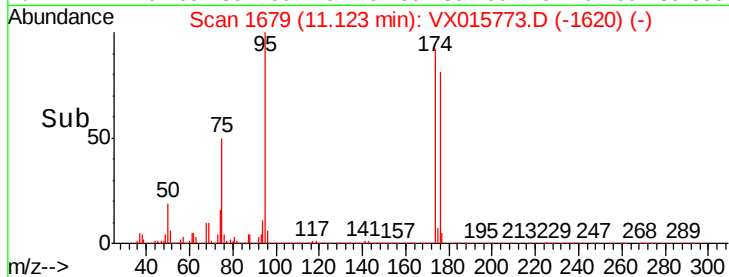
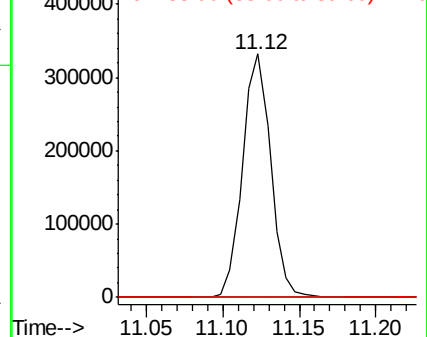
75 100

53 0.1 80.1 120.1#

89 0.0 36.1 54.1#



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



#86

p-Isopropyltoluene

Concen: 0.223 ug/l

RT: 12.05 min Scan# 1831

Delta R.T. -0.00 min

Lab File: VX015773.D

Acq: 20 Apr 2020 18:05

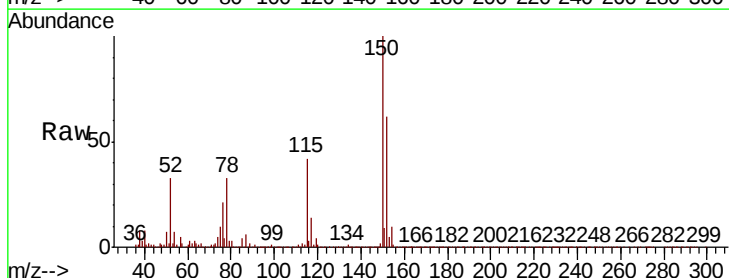
Tgt Ion: 119 Resp: 12250

Ion Ratio Lower Upper

119 100

134 35.1 13.1 39.3

91 38.7 12.4 37.4#



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): VX0

