

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020620\
 Data File : VX014852.D
 Acq On : 06 Feb 2020 16:57
 Operator : JC/SP
 Sample : L1419-02 50X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 07 00:50:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 22 12:35:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	464991	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	716611	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	668284	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	320881	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	264479	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
35) Dibromofluoromethane	5.49	113	215913	47.75	ug/l	0.00
Spiked Amount			Recovery	=	95.50%	
50) Toluene-d8	8.71	98	853547	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
62) 4-Bromofluorobenzene	11.13	95	301872	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	

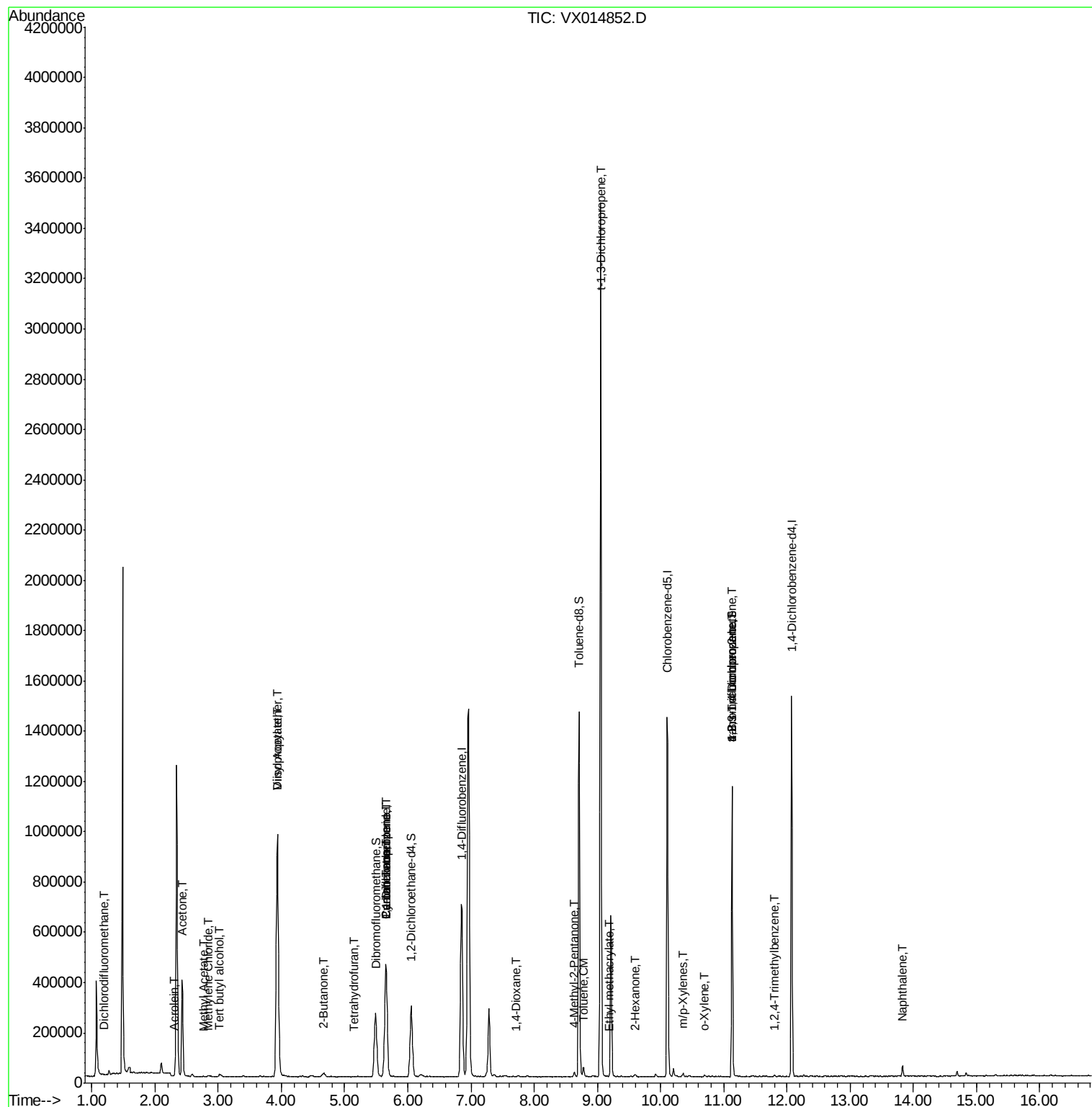
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	140	0.553	ug/l #	1
6) Chloroethane	1.75	64	354	Below Cal	#	59
11) Tert butyl alcohol	3.02	59	12803	10.502	ug/l	96
13) Acrolein	2.30	56	4467	4.647	ug/l	86
16) Acetone	2.43	43	396423	133.277	ug/l	98
18) Methyl Acetate	2.77	43	1915	0.225	ug/l #	74
20) Methylene Chloride	2.85	84	3034	0.551	ug/l #	93
22) Diisopropyl ether	3.94	45	63698	3.853	ug/l #	1
23) Vinyl Acetate	3.94	43	154137	12.232	ug/l #	73
25) 2-Butanone	4.66	43	16274	3.817	ug/l	92
29) Tetrahydrofuran	5.14	42	775	0.306	ug/l #	81
31) Cyclohexane	5.65	56	8738	1.035	ug/l #	6
36) 1,1-Dichloropropene	5.65	75	31118	4.673	ug/l #	52
38) Carbon Tetrachloride	5.65	117	40056	6.299	ug/l #	16
41) Methacrylonitrile	5.05	41	338	Below Cal	#	45
49) 1,4-Dioxane	7.72	88	147	1.162	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	11219	1.423	ug/l	98
52) Toluene	8.78	92	15001	1.186	ug/l	99
53) t-1,3-Dichloropropene	9.05	75	5912	0.815	ug/l #	44
56) Ethyl methacrylate	9.18	69	579	1.848	ug/l #	23
59) 2-Hexanone	9.59	43	2092	0.342	ug/l	97
68) m/p-Xylenes	10.35	106	3867	0.418	ug/l	82
69) o-Xylene	10.70	106	2443	0.274	ug/l	67
76) 1,2,3-Trichloropropane	11.13	75	152128	20.377	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	152128	57.990	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	4157	0.221	ug/l	96
95) Naphthalene	13.83	128	27754	2.142	ug/l #	96

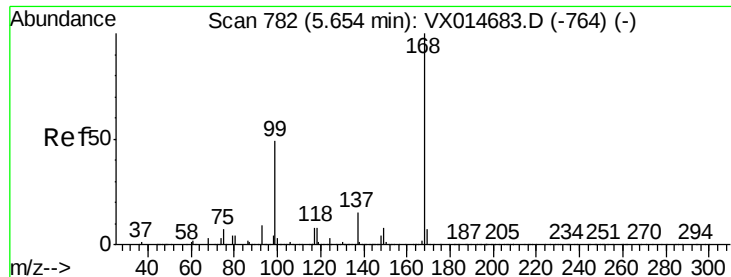
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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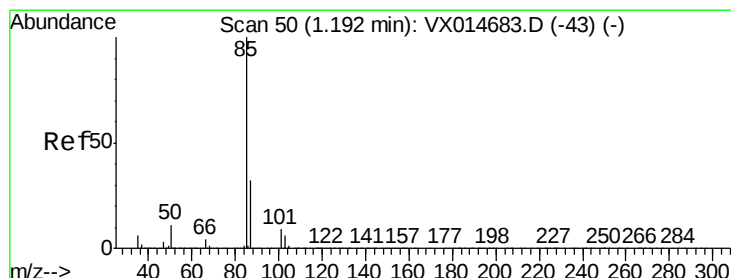
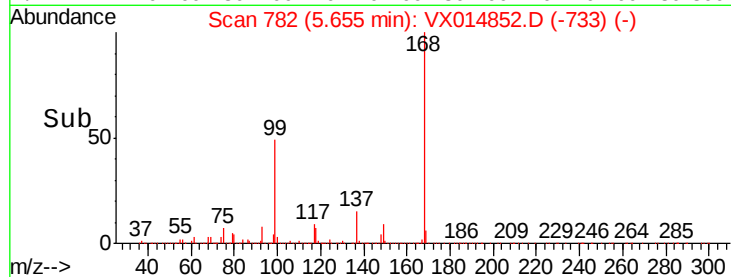
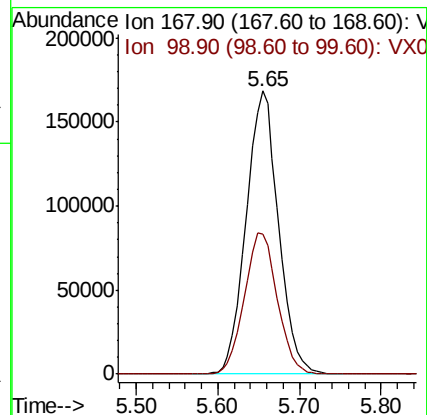
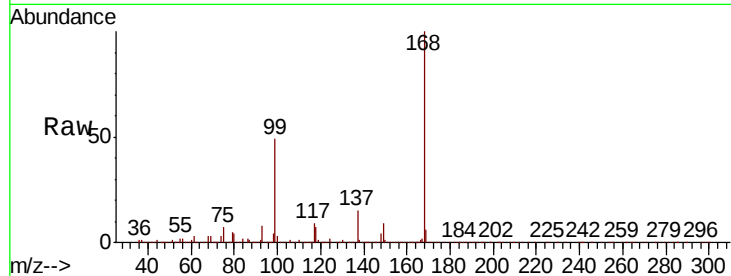


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.00 min
 Lab File: VX014852.D
 Acq: 06 Feb 2020 16:57

Instrument :
 MSVOA_X
 ClientSampleId :

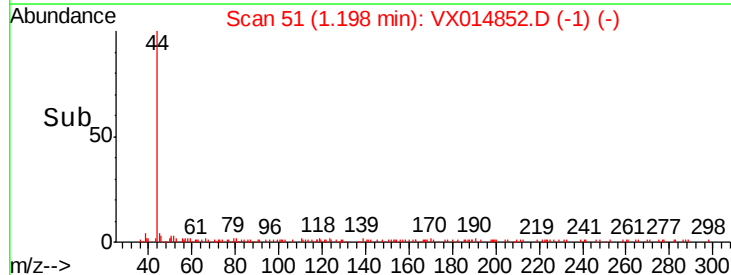
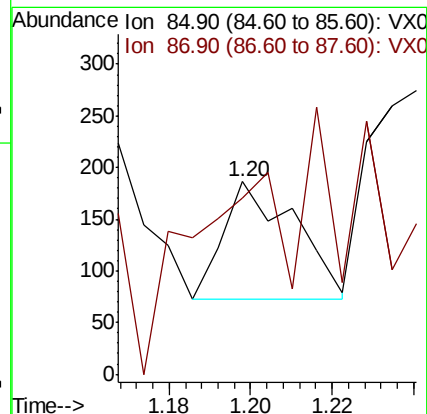
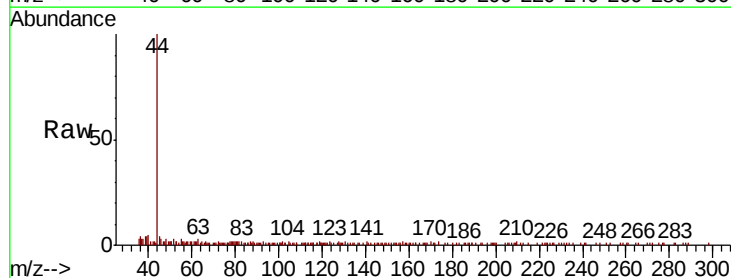
Tot Ion:168 Resp: 464991
 Ion Ratio Lower Upper
 168 100
 99 49.3 39.8 59.6

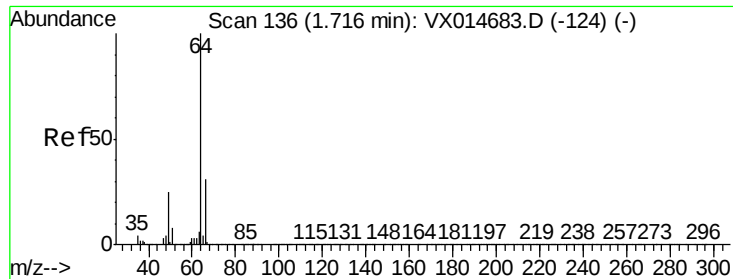


#2

Dichlorodifluoromethane
 Concen: 0.553 ug/l
 RT: 1.20 min Scan# 51
 Delta R.T. 0.01 min
 Lab File: VX014852.D
 Acq: 06 Feb 2020 16:57

Tgt Ion: 85 Resp: 140
 Ion Ratio Lower Upper
 85 100
 87 190.7 16.2 48.5#





#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 142

Delta R.T. 0.04 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

Instrument :

MSVOA_X

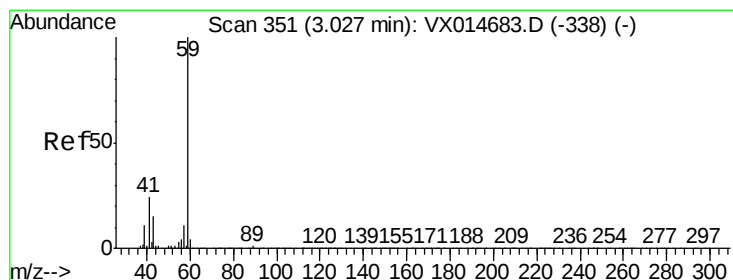
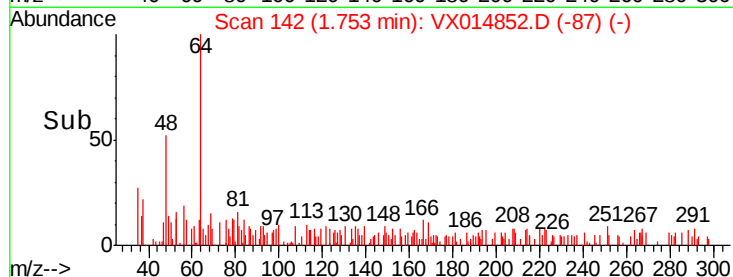
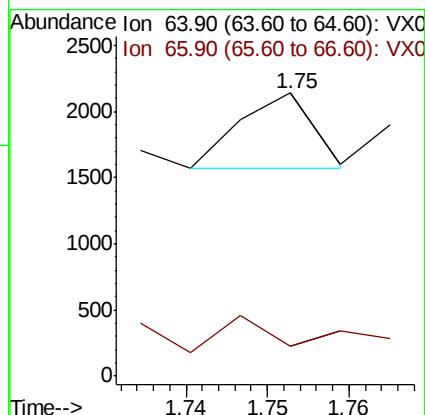
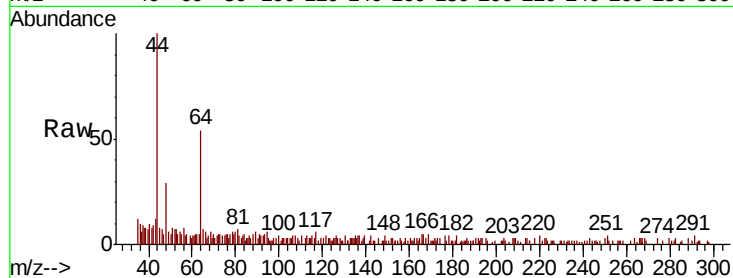
ClientSampled :

Tot Ion: 64 Resp: 354

Ion Ratio Lower Upper

64 100

66 8.6 25.2 37.8#



#11

Tert butyl alcohol

Concen: 10.502 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX014852.D

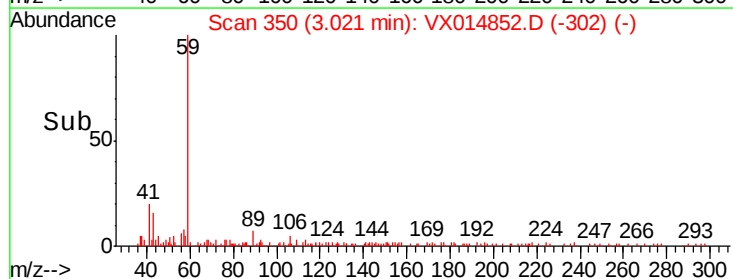
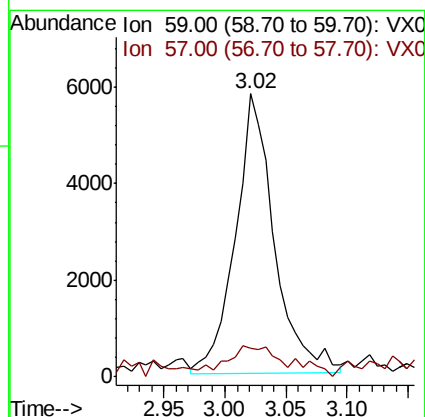
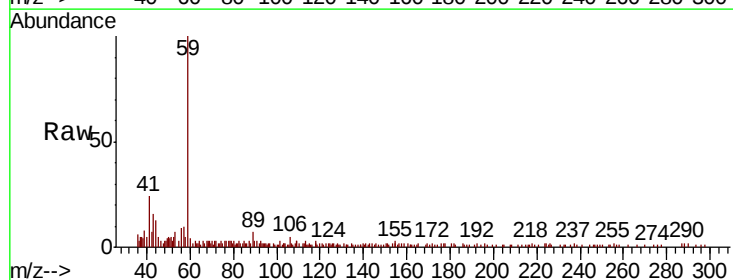
Acq: 06 Feb 2020 16:57

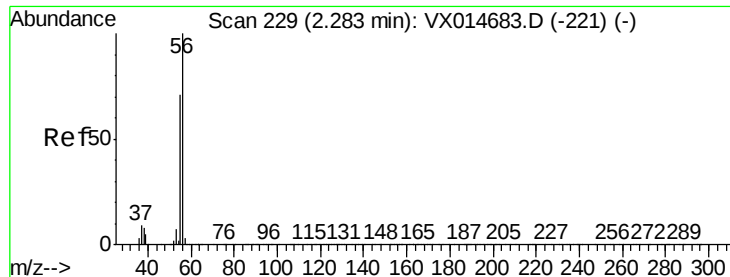
Tgt Ion: 59 Resp: 12803

Ion Ratio Lower Upper

59 100

57 8.8 8.3 12.5





#13

Acrolein

Concen: 4.647 ug/l

RT: 2.30 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

Instrument :

MSVOA_X

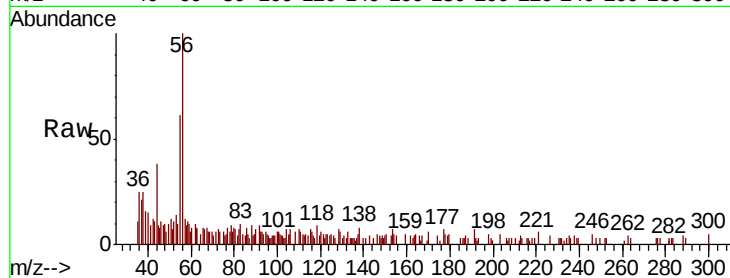
ClientSampleId :

Tot Ion: 56 Resp: 4467

Ion Ratio Lower Upper

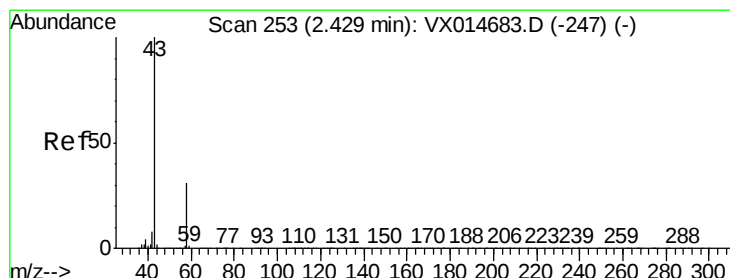
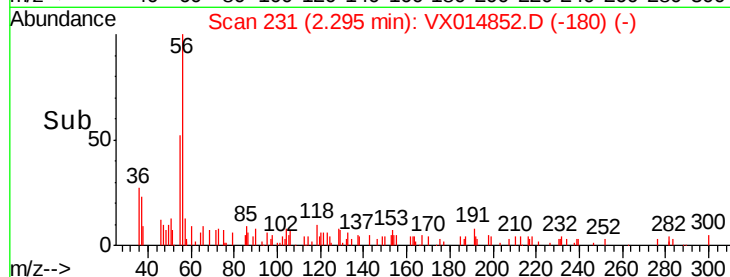
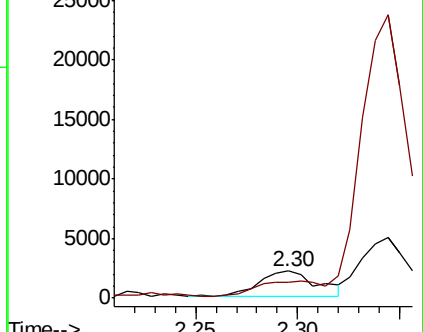
56 100

55 59.1 56.6 84.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 133.277 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014852.D

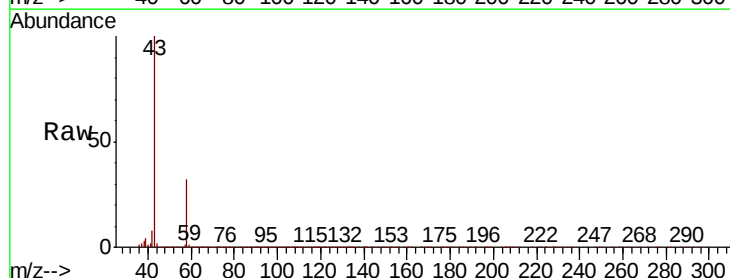
Acq: 06 Feb 2020 16:57

Tgt Ion: 43 Resp: 396423

Ion Ratio Lower Upper

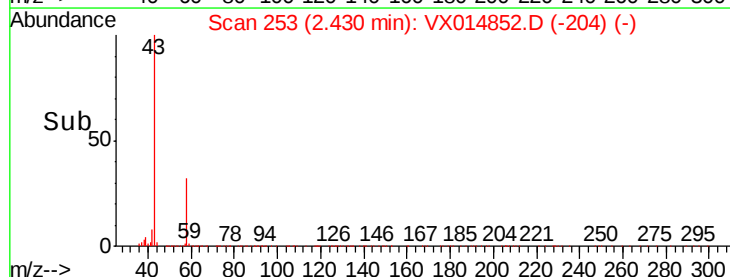
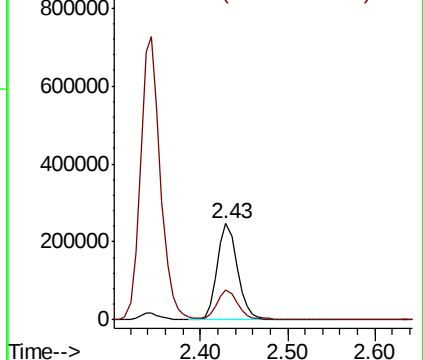
43 100

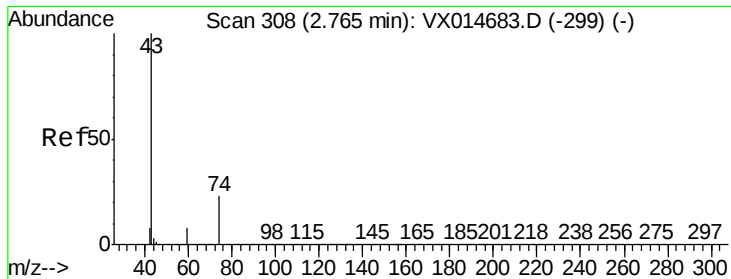
58 31.5 24.5 36.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

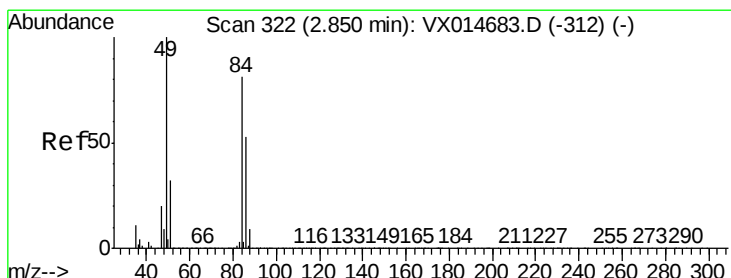
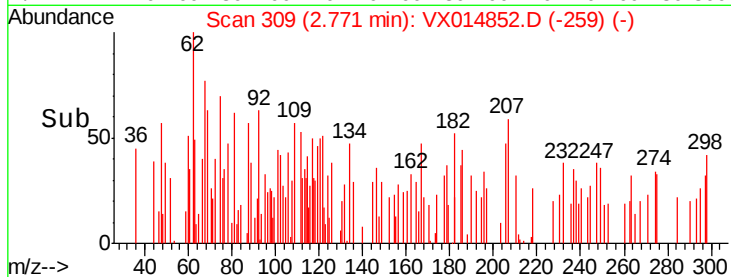
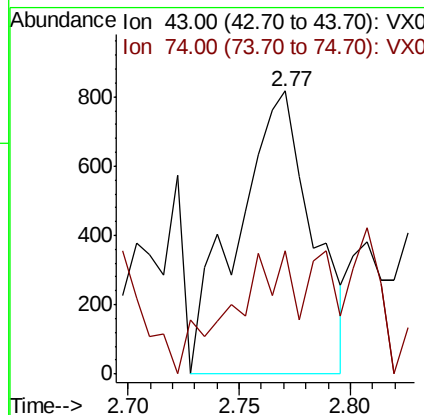
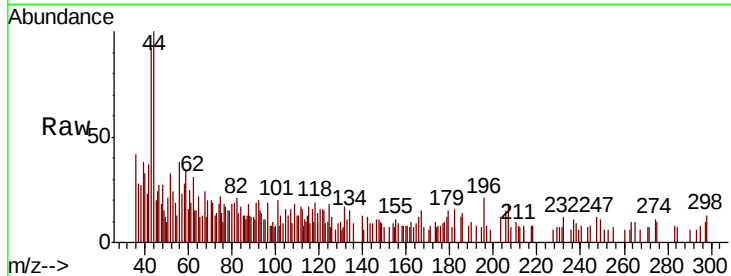




#18
Methyl Acetate
Concen: 0.225 ug/l
RT: 2.77 min Scan# 309
Delta R.T. 0.01 min
Lab File: VX014852.D
Acq: 06 Feb 2020 16:57

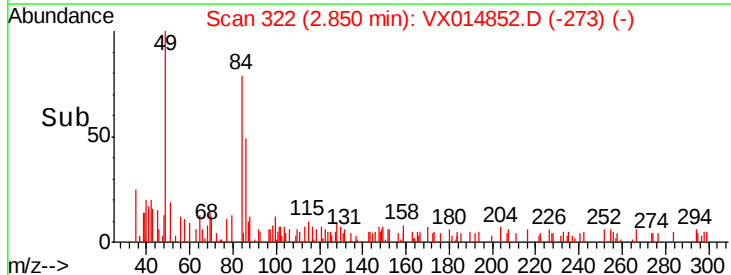
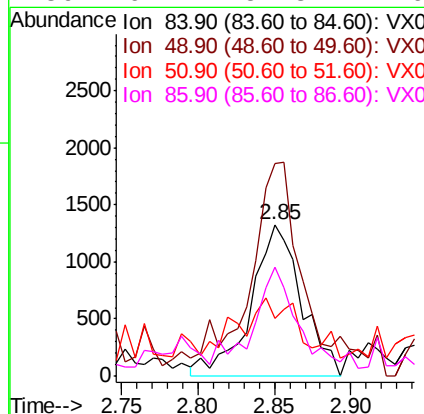
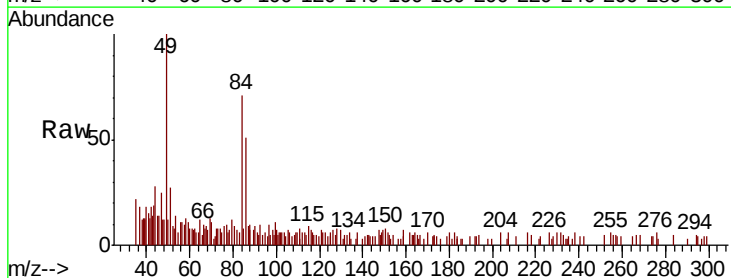
Instrument :
MSVOA_X
ClientSampled :

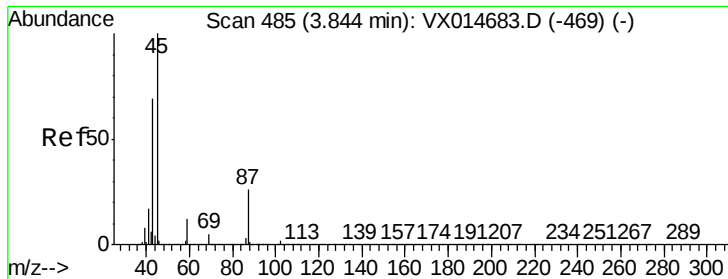
Tot Ion: 43 Resp: 1915
Ion Ratio Lower Upper
43 100
74 35.7 18.5 27.7#



#20
Methylene Chloride
Concen: 0.551 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014852.D
Acq: 06 Feb 2020 16:57

Tgt Ion: 84 Resp: 3034
Ion Ratio Lower Upper
84 100
49 128.5 98.2 147.4
51 26.7 31.3 46.9#
86 62.7 51.8 77.6



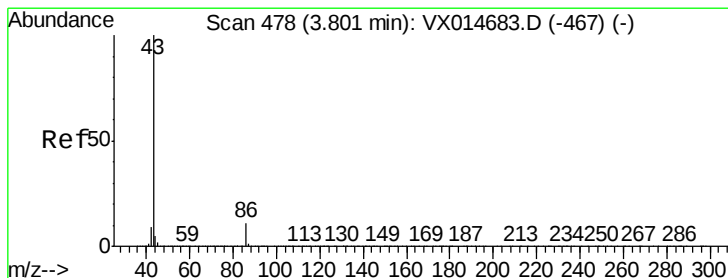
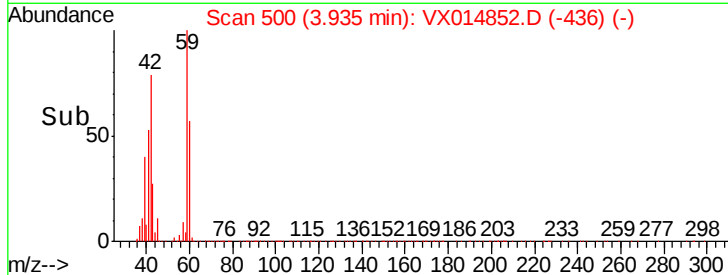
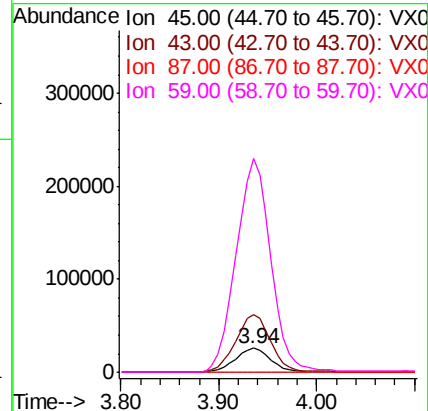
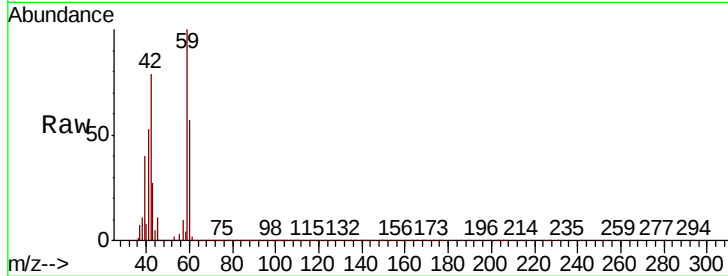


#22

Diisopropyl ether
 Concen: 3.853 ug/l
 RT: 3.94 min Scan# 500
 Delta R.T. 0.09 min
 Lab File: VX014852.D
 Acq: 06 Feb 2020 16:57

Instrument :
 MSVOA_X
 ClientSampleId :

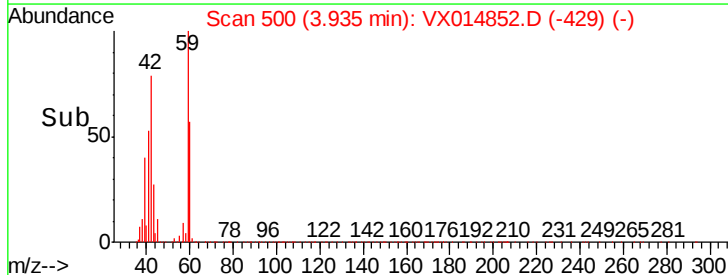
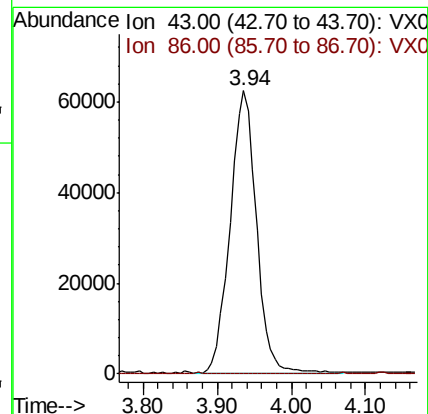
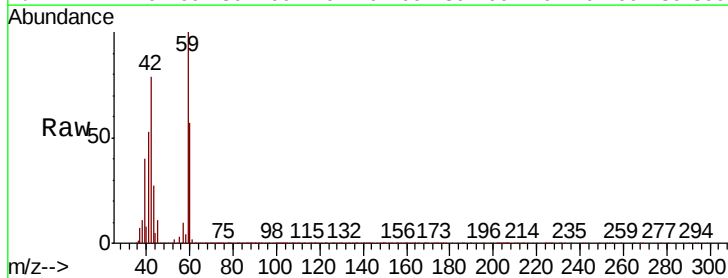
Tot Ion	Ratio	Lower	Upper
45	100		
43	244.5	55.1	82.7#
87	0.4	20.7	31.1#
59	903.4	9.2	13.8#

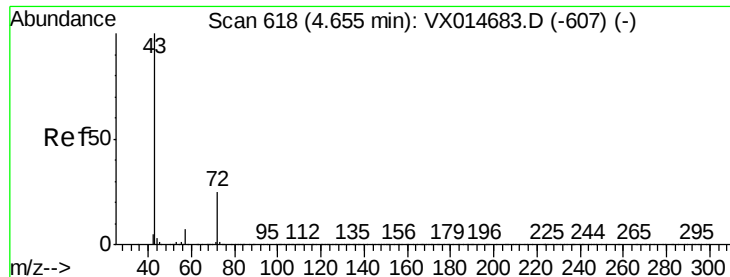


#23

Vinyl Acetate
 Concen: 12.232 ug/l
 RT: 3.94 min Scan# 500
 Delta R.T. 0.13 min
 Lab File: VX014852.D
 Acq: 06 Feb 2020 16:57

Tgt Ion	Ratio	Lower	Upper
43	100		
86	0.3	8.4	12.6#





#25

2-Butanone

Concen: 3.817 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.01 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

Instrument :

MSVOA_X

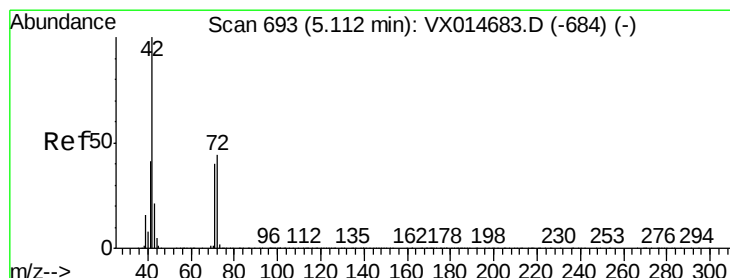
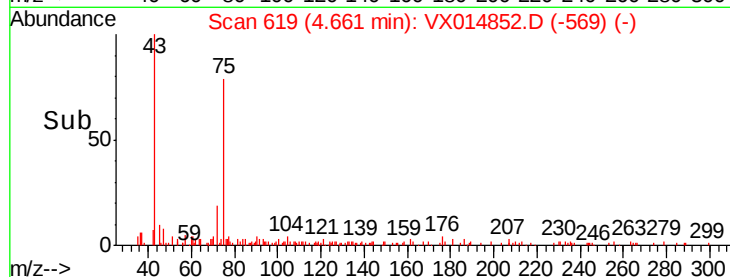
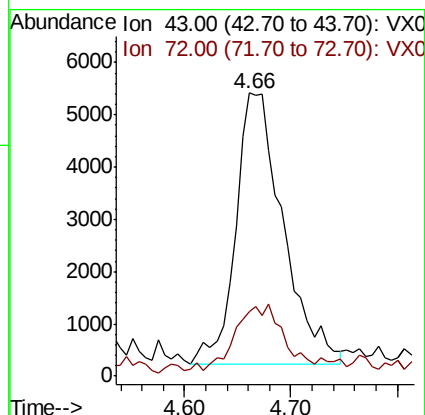
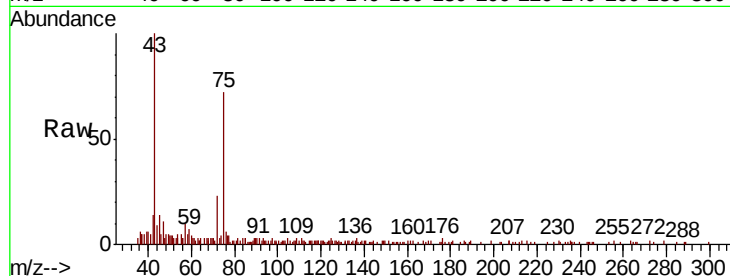
ClientSampleId :

Tot Ion: 43 Resp: 16274

Ion Ratio Lower Upper

43 100

72 21.0 19.9 29.9



#29

Tetrahydrofuran

Concen: 0.306 ug/l

RT: 5.14 min Scan# 698

Delta R.T. 0.03 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

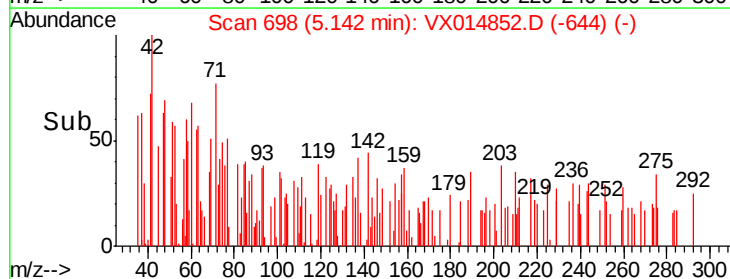
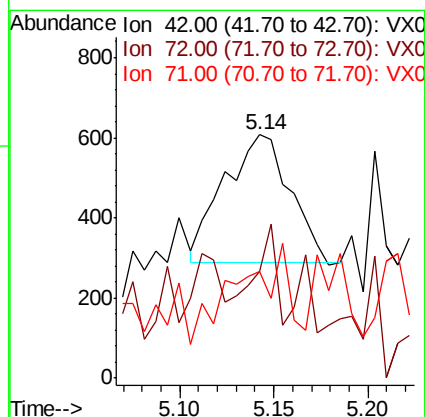
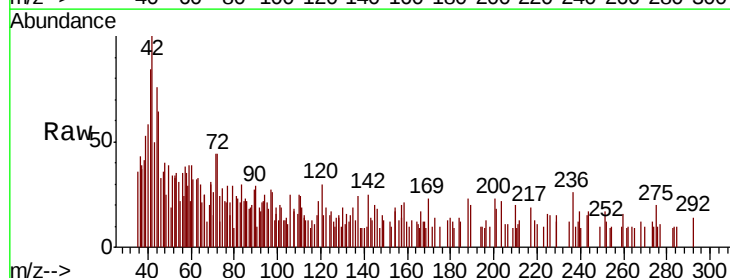
Tgt Ion: 42 Resp: 775

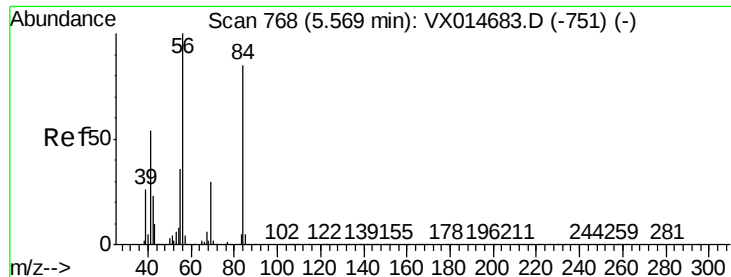
Ion Ratio Lower Upper

42 100

72 21.2 35.3 52.9#

71 40.1 33.1 49.7

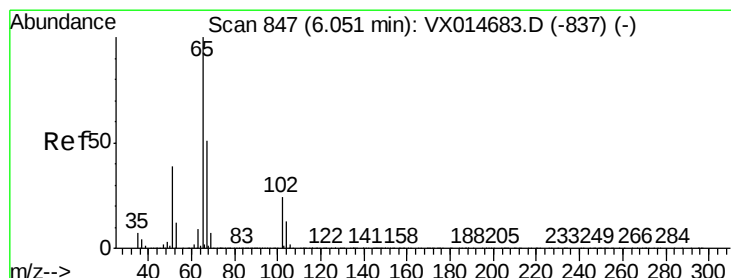
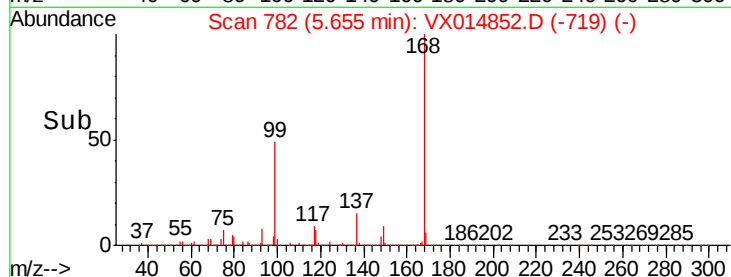
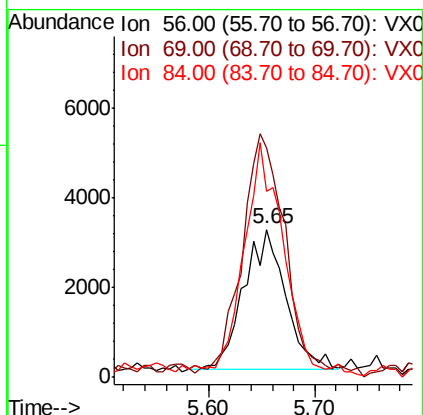
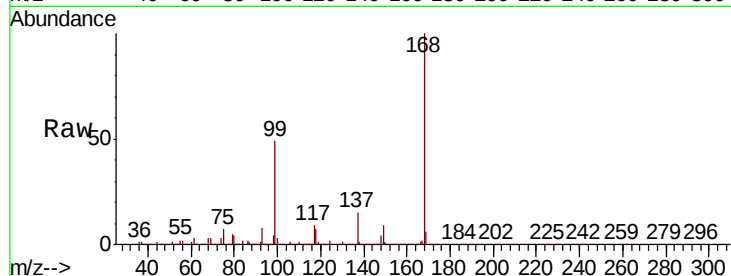




#31
Cyclohexane
Concen: 1.035 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX014852.D
Acq: 06 Feb 2020 16:57

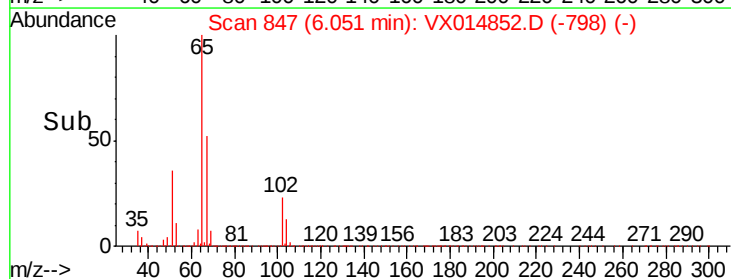
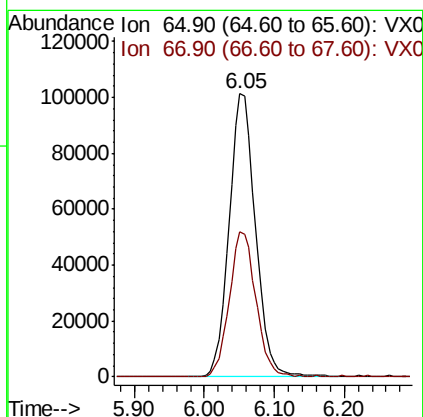
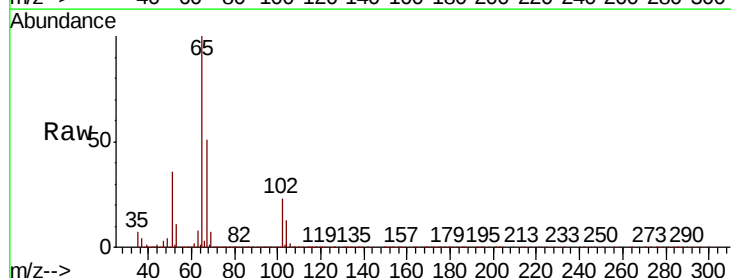
Instrument :
MSVOA_X
ClientSampleId :

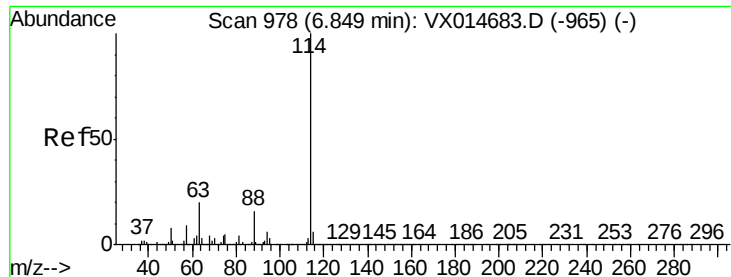
Tot Ion: 56 Resp: 8738
Ion Ratio Lower Upper
56 100
69 157.4 23.4 35.2#
84 126.5 68.4 102.6#



#33
1,2-Dichloroethane-d4
Concen: 48.707 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014852.D
Acq: 06 Feb 2020 16:57

Tgt Ion: 65 Resp: 264479
Ion Ratio Lower Upper
65 100
67 52.2 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

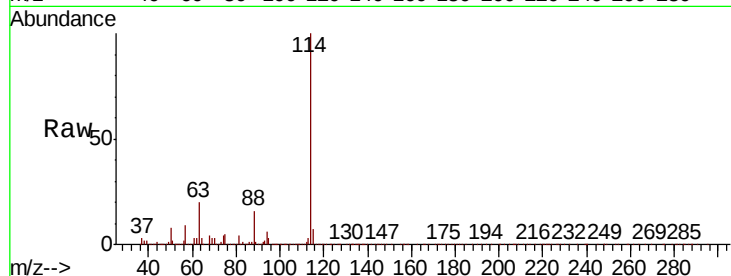
Tot Ion:114 Resp: 716611

Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.6

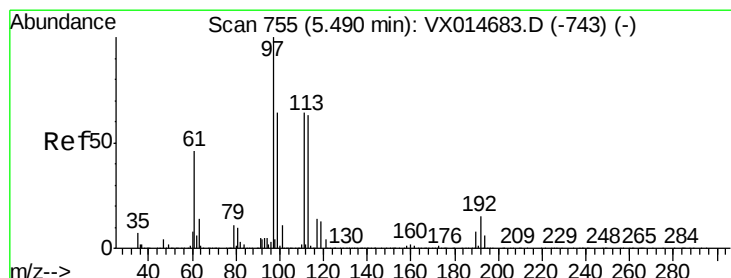
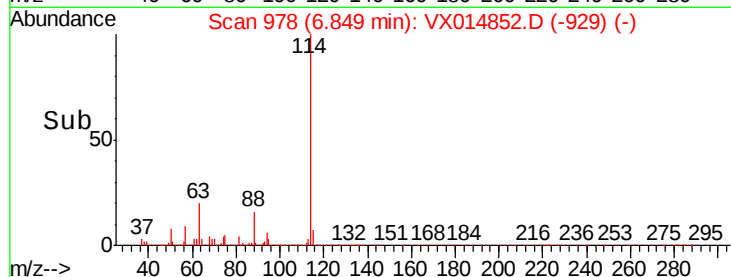
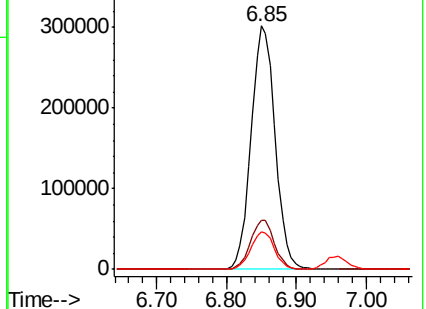
88 15.5 0.0 31.2



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: 47.750 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

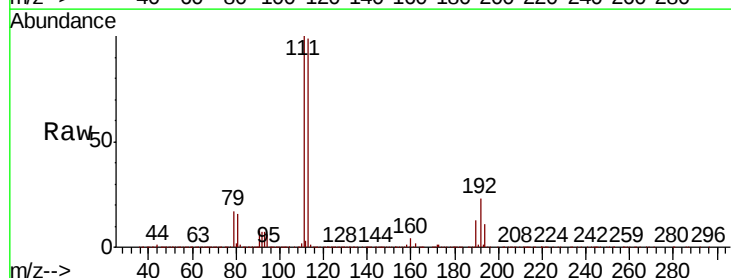
Tgt Ion:113 Resp: 215913

Ion Ratio Lower Upper

113 100

111 101.0 80.7 121.1

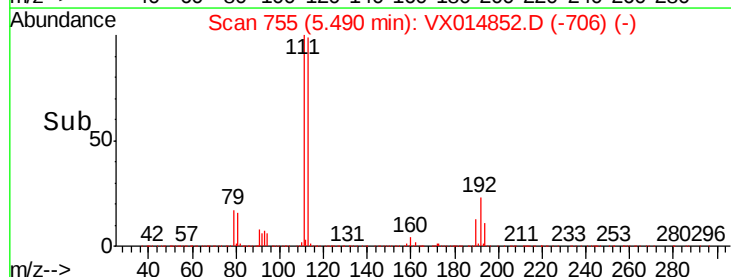
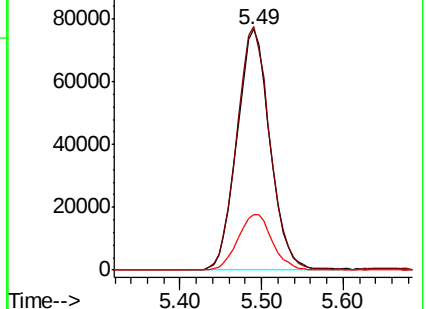
192 24.0 18.5 27.7

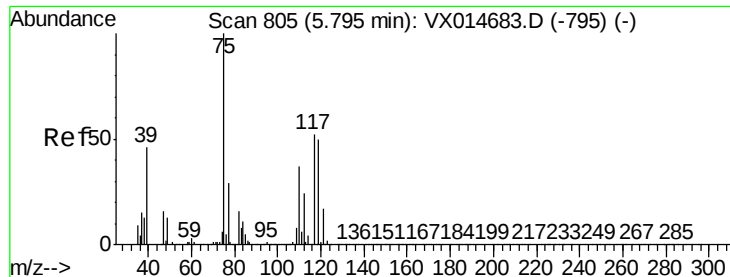


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

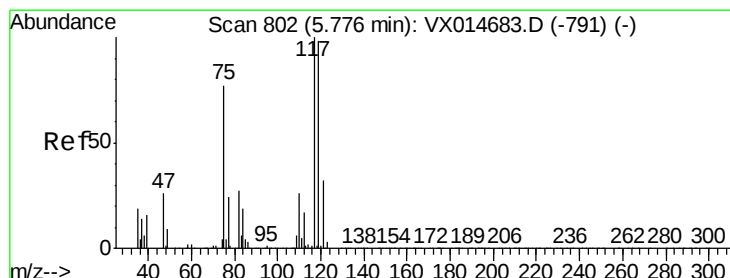
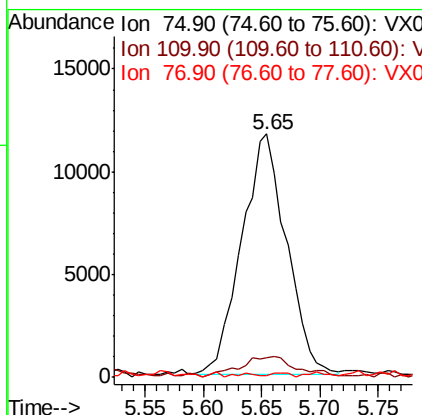
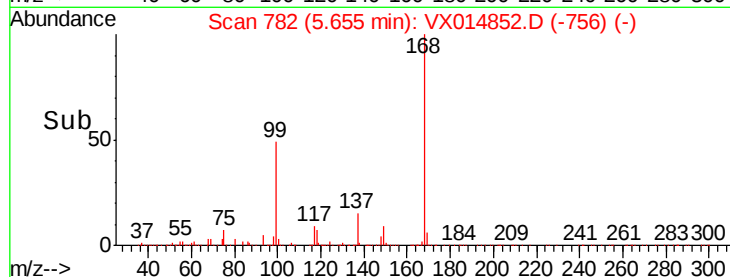
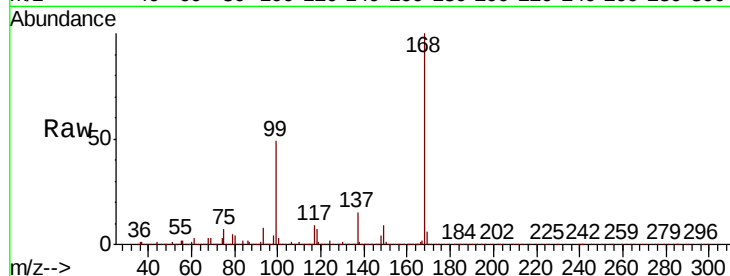




#36
 1,1-Dichloropropene
 Concen: 4.673 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX014852.D
 Acq: 06 Feb 2020 16:57

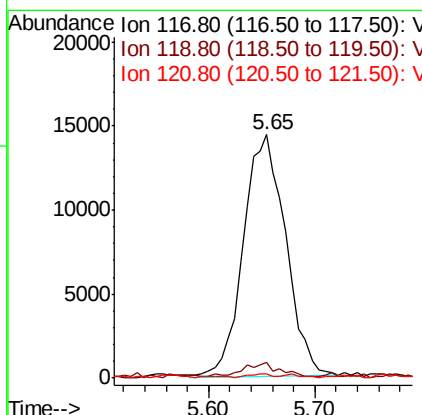
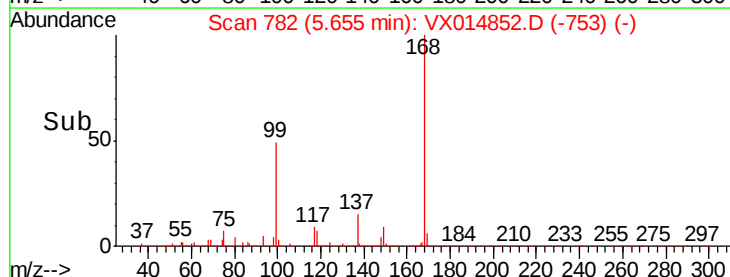
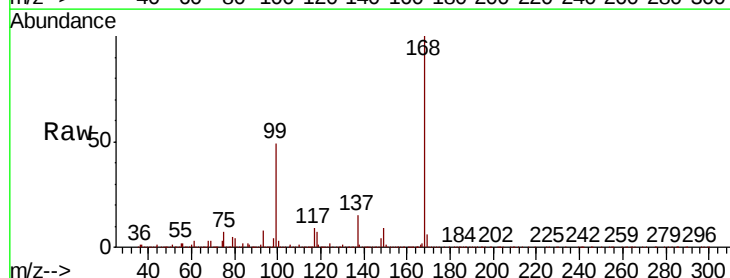
Instrument :
 MSVOA_X
 ClientSampleId :

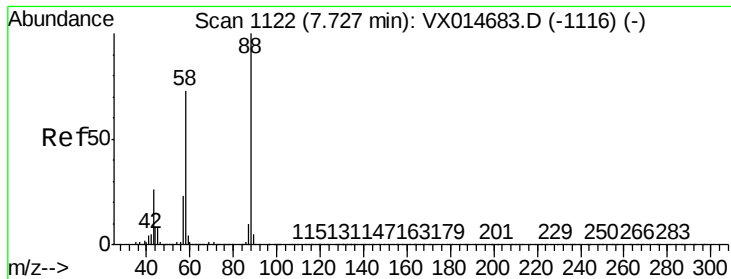
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.0	17.9	53.7#
77	0.9	24.1	36.1#



#38
 Carbon Tetrachloride
 Concen: 6.299 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014852.D
 Acq: 06 Feb 2020 16:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	77.9	116.9#
121	1.1	25.4	38.2#





#49

1,4-Dioxane

Concen: 1.162 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

Instrument :

MSVOA_X

ClientSampled :

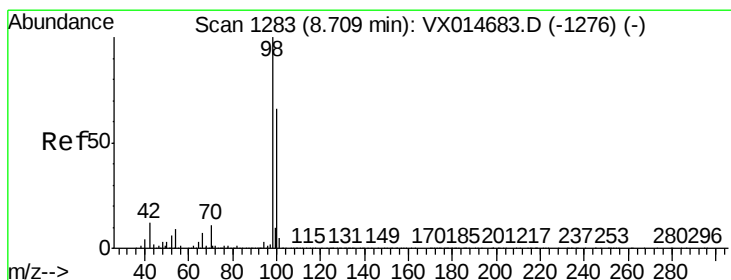
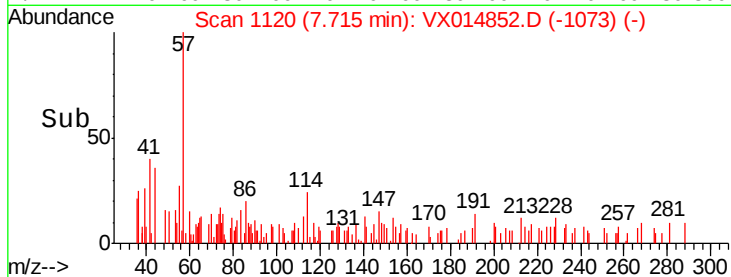
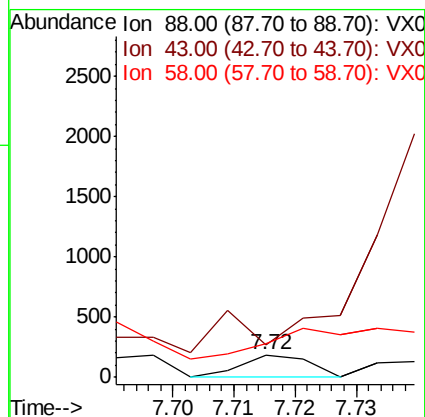
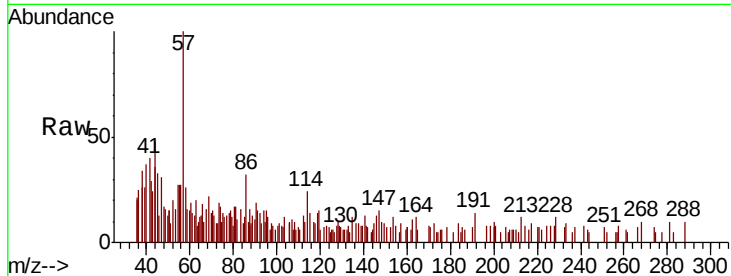
Tot Ion: 88 Resp: 147

Ion Ratio Lower Upper

88 100

43 0.0 26.2 39.2#

58 377.6 56.6 85.0#



#50

Toluene-d8

Concen: 49.101 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014852.D

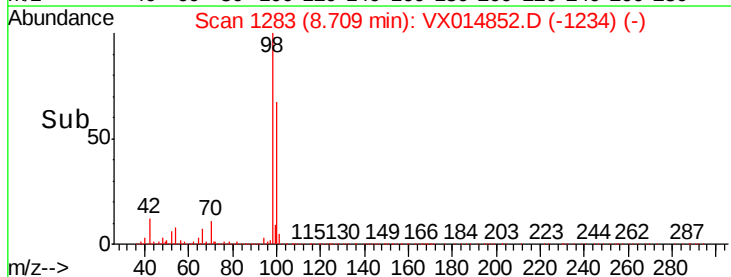
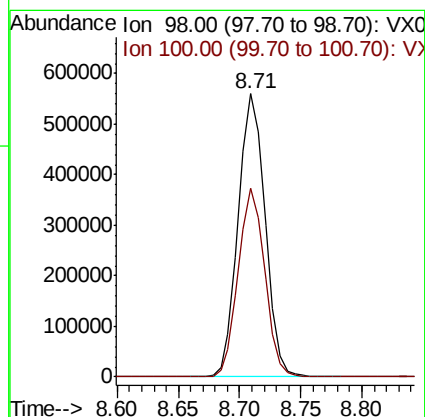
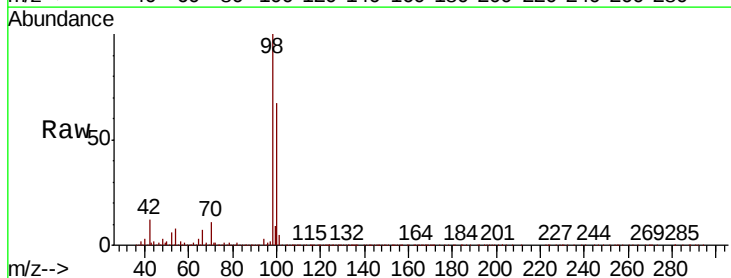
Acq: 06 Feb 2020 16:57

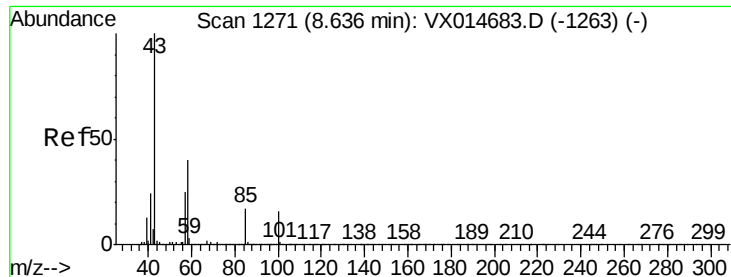
Tgt Ion: 98 Resp: 853547

Ion Ratio Lower Upper

98 100

100 65.7 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 1.423 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

Instrument :

MSVOA_X

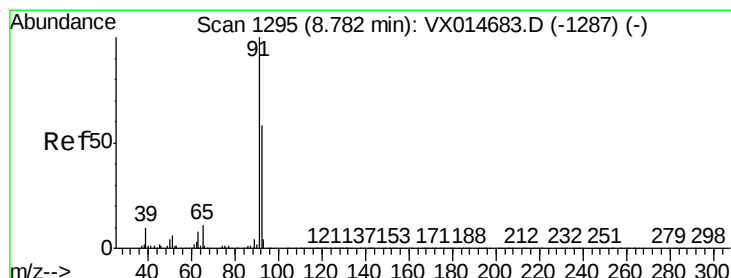
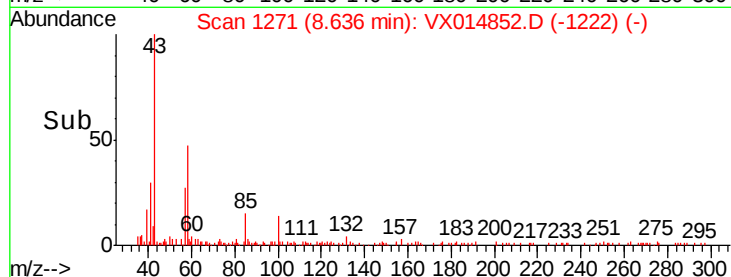
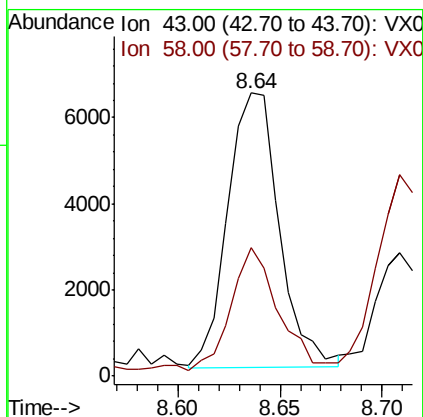
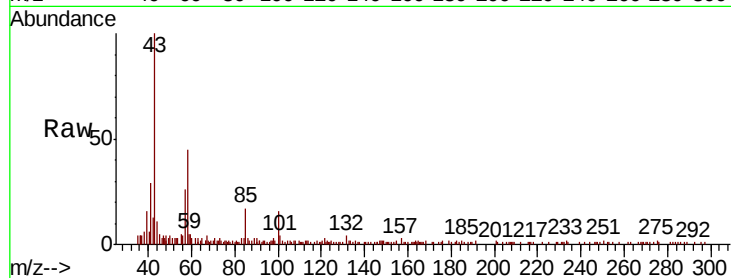
ClientSampled :

Tot Ion: 43 Resp: 11219

Ion Ratio Lower Upper

43 100

58 40.6 31.6 47.4



#52

Toluene

Concen: 1.186 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX014852.D

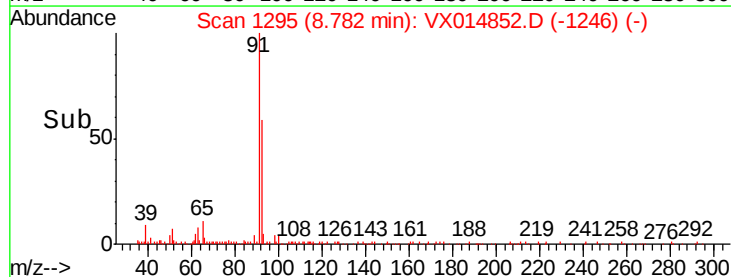
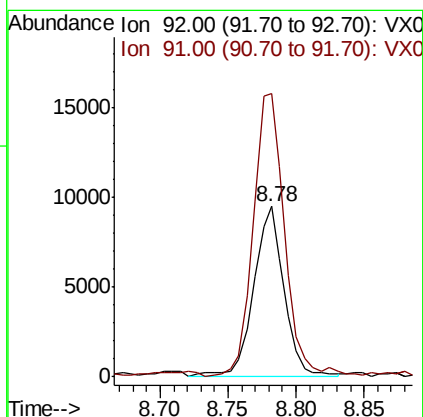
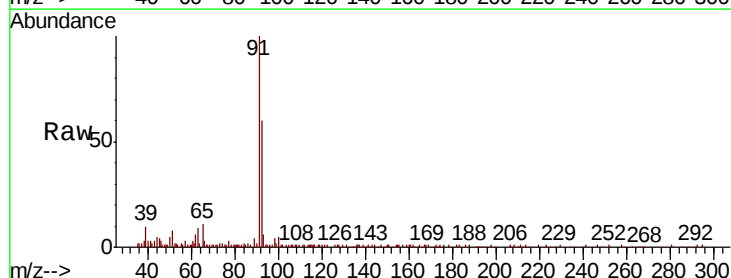
Acq: 06 Feb 2020 16:57

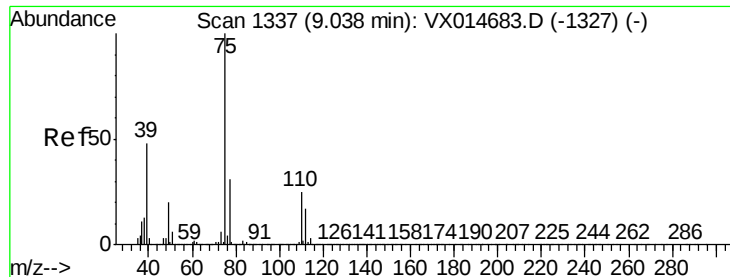
Tgt Ion: 92 Resp: 15001

Ion Ratio Lower Upper

92 100

91 171.9 135.9 203.9





#53

t-1,3-Dichloropropene

Concen: 0.815 ug/l

RT: 9.05 min Scan# 1339

Delta R.T. 0.01 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

Instrument :

MSVOA_X

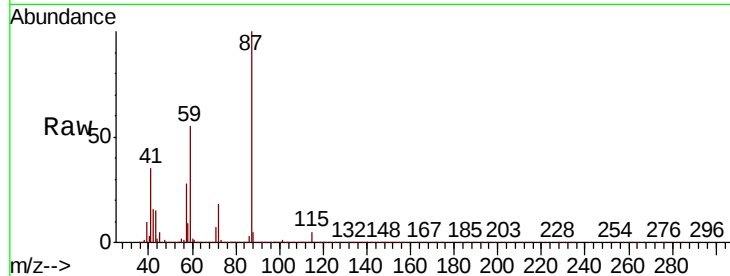
ClientSampleId :

Tot Ion: 75 Resp: 5912

Ion Ratio Lower Upper

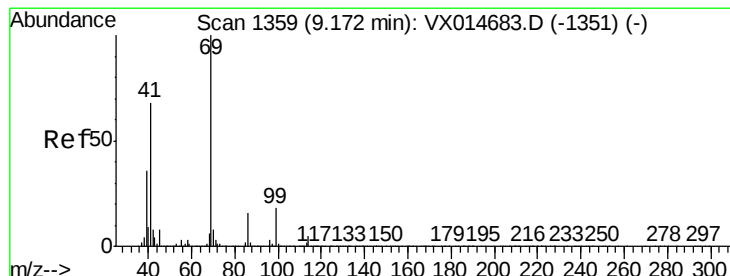
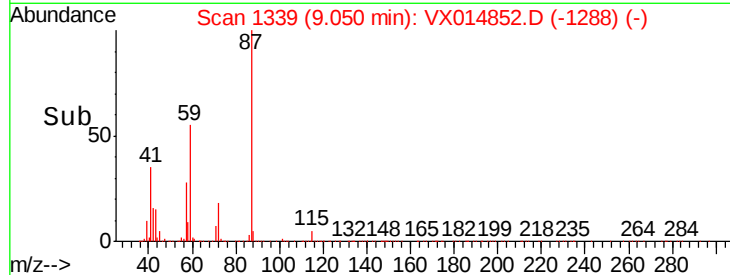
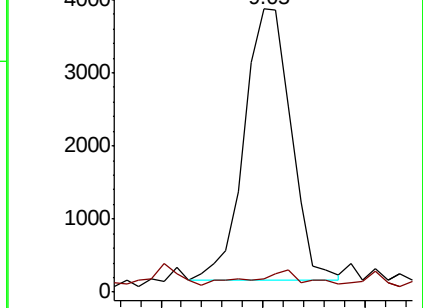
75 100

77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#56

Ethyl methacrylate

Concen: 1.848 ug/l

RT: 9.18 min Scan# 1360

Delta R.T. 0.01 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

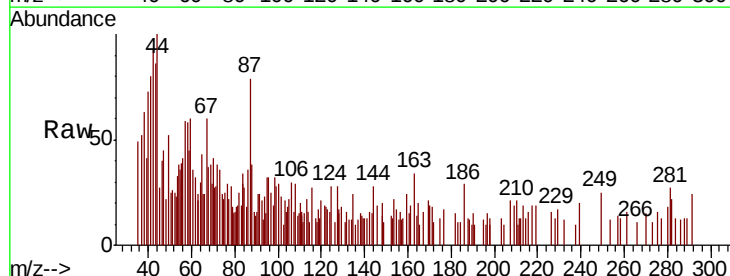
Tgt Ion: 69 Resp: 579

Ion Ratio Lower Upper

69 100

41 0.0 54.9 82.3#

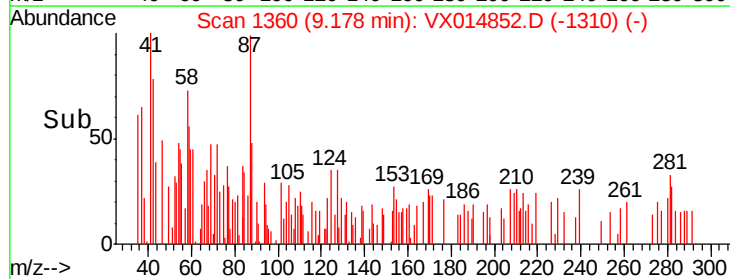
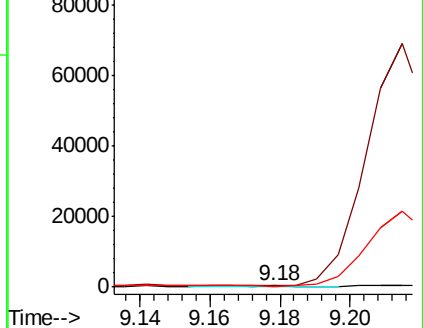
39 0.0 29.3 43.9#

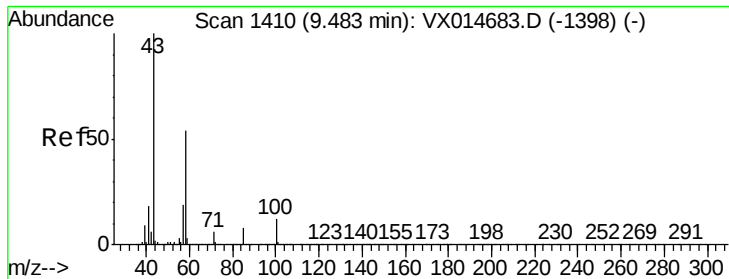


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

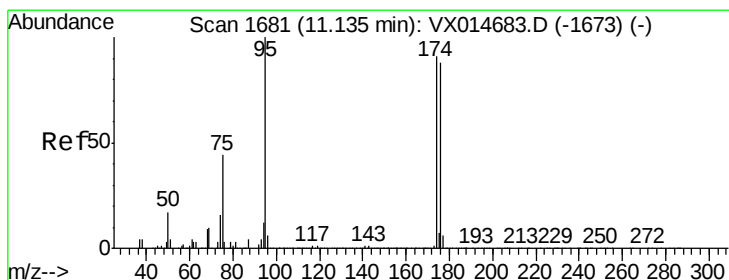
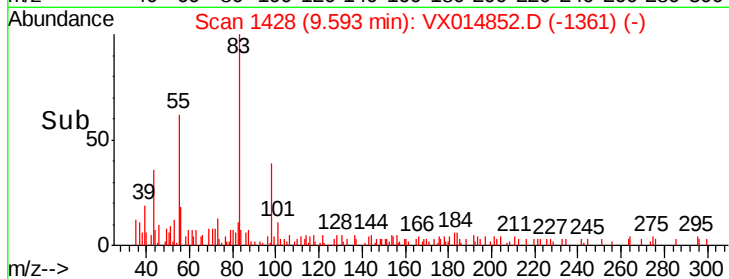
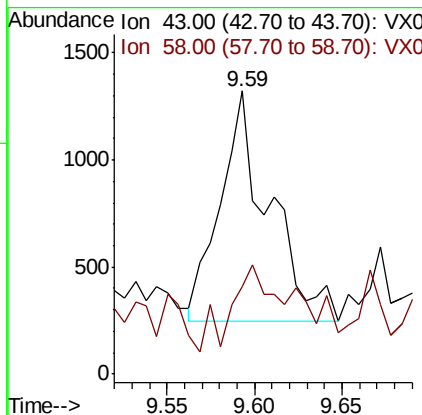
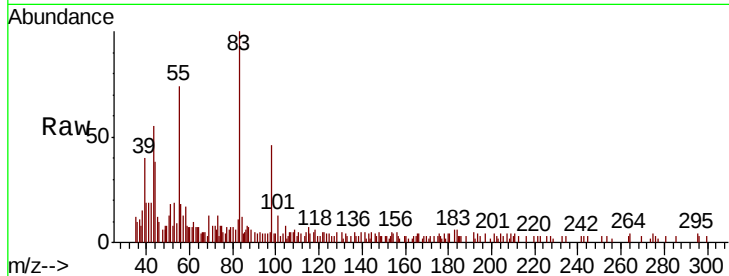




#59
2-Hexanone
Concen: 0.342 ug/l
RT: 9.59 min Scan# 1428
Delta R.T. 0.11 min
Lab File: VX014852.D
Acq: 06 Feb 2020 16:57

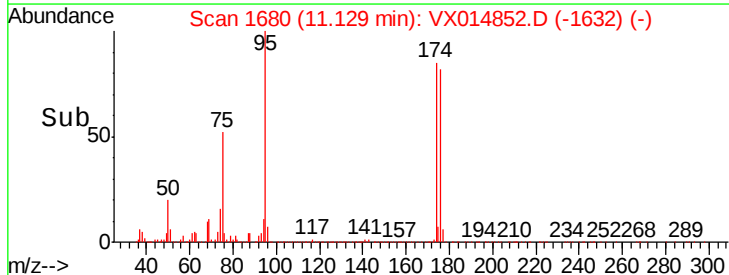
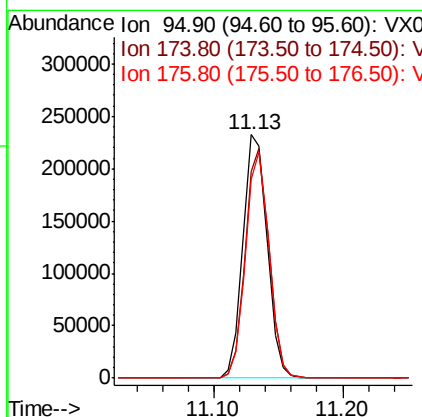
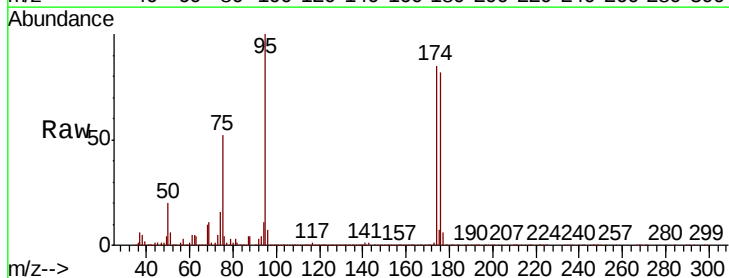
Instrument :
MSVOA_X
ClientSampleId :

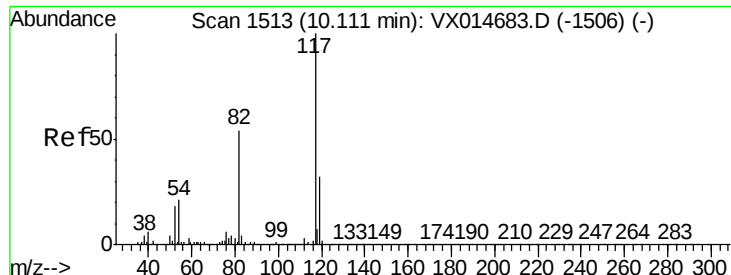
Tot Ion: 43 Resp: 2092
Ion Ratio Lower Upper
43 100
58 52.3 27.2 81.5



#62
4-Bromofluorobenzene
Concen: 48.749 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014852.D
Acq: 06 Feb 2020 16:57

Tgt Ion: 95 Resp: 301872
Ion Ratio Lower Upper
95 100
174 92.0 0.0 176.0
176 89.8 0.0 172.2

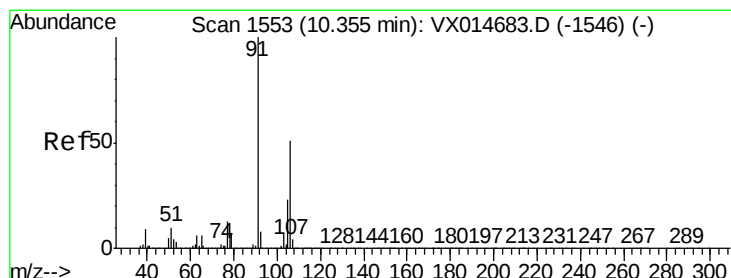
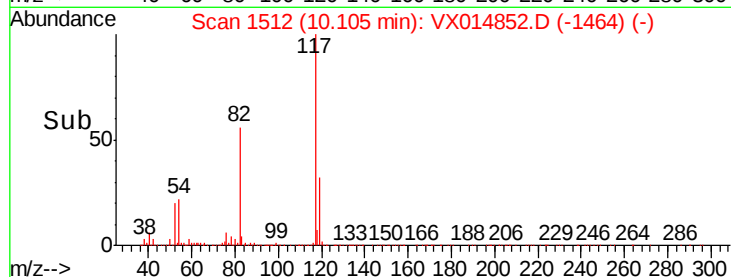
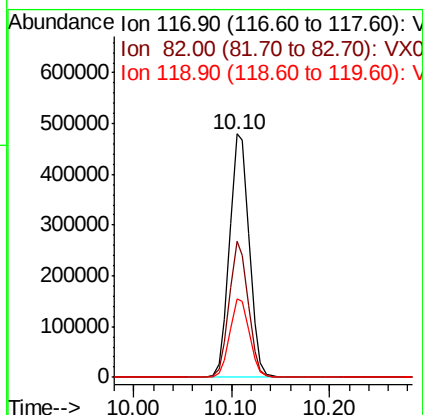
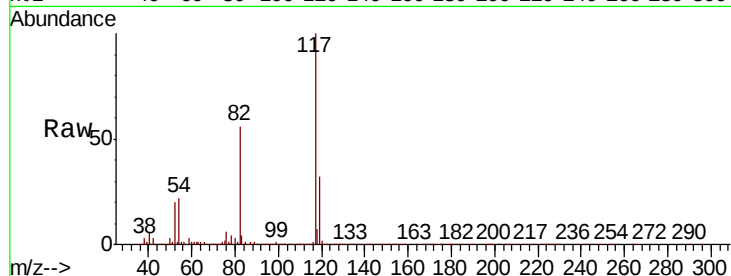




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014852.D
Acq: 06 Feb 2020 16:57

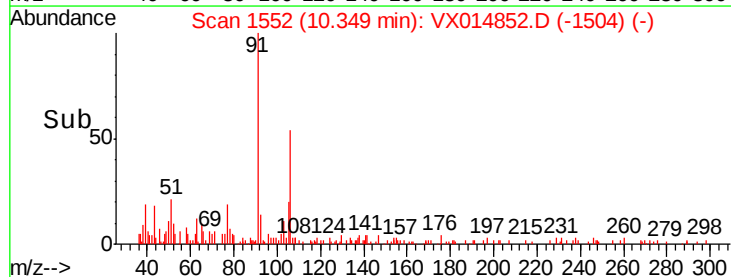
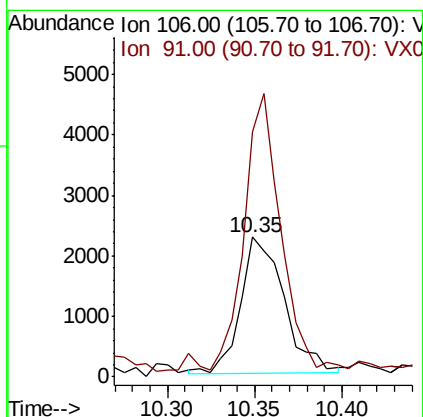
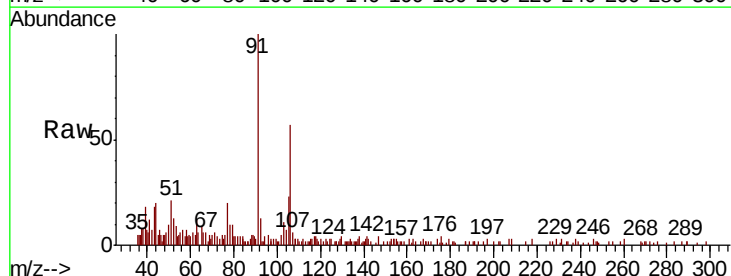
Instrument :
MSVOA_X
ClientSampleId :

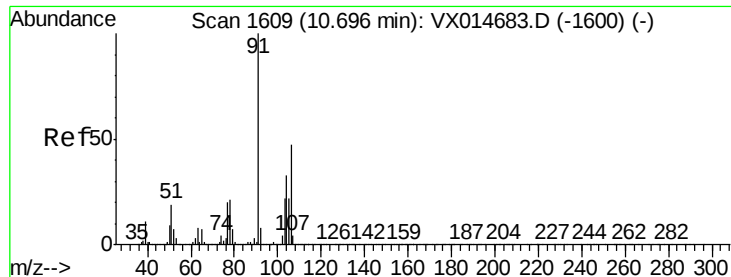
Tot Ion:117 Resp: 668284
Ion Ratio Lower Upper
117 100
82 55.7 43.2 64.8
119 32.0 25.8 38.6



#68
m/p-Xylenes
Concen: 0.418 ug/l
RT: 10.35 min Scan# 1552
Delta R.T. -0.01 min
Lab File: VX014852.D
Acq: 06 Feb 2020 16:57

Tgt Ion:106 Resp: 3867
Ion Ratio Lower Upper
106 100
91 171.9 159.4 239.2

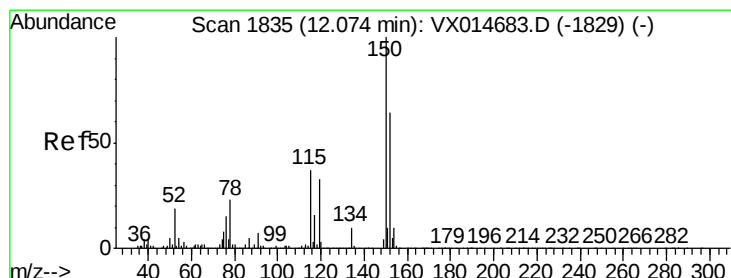
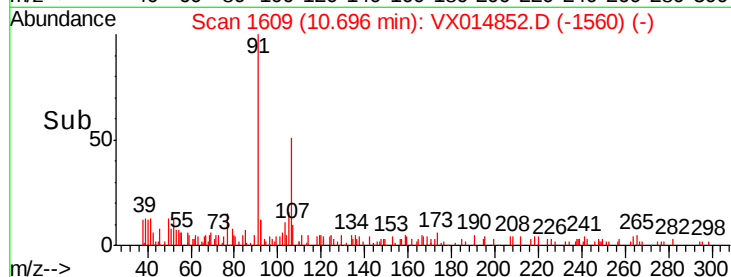
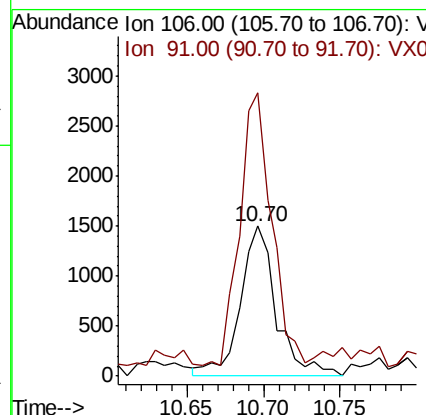
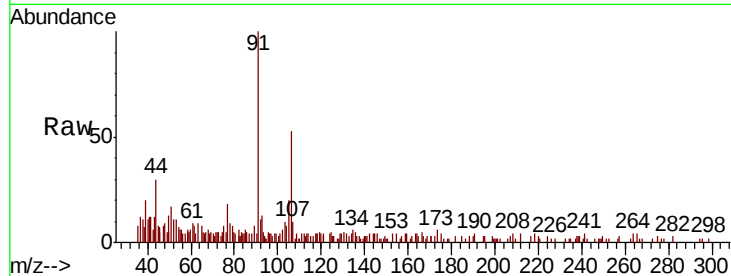




#69
o-Xylene
Concen: 0.274 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX014852.D
Acq: 06 Feb 2020 16:57

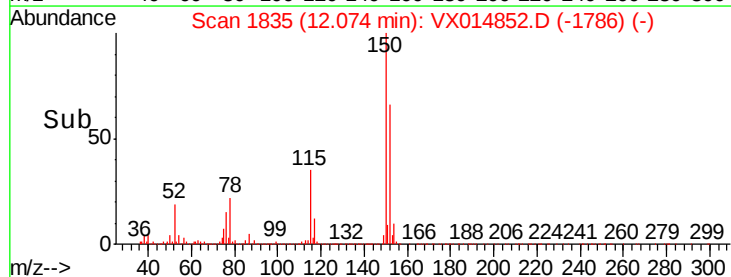
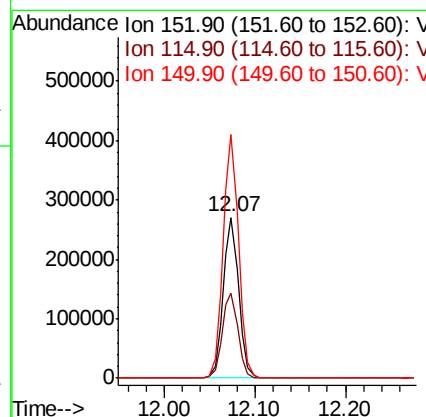
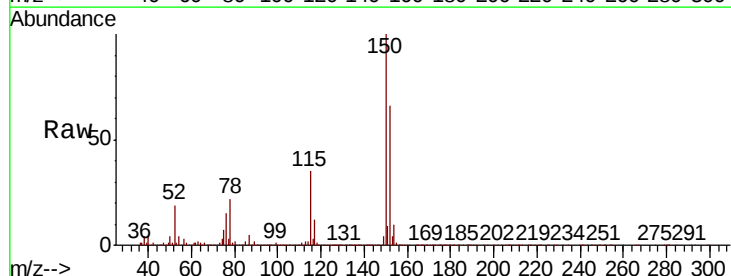
Instrument :
MSVOA_X
ClientSampleId :

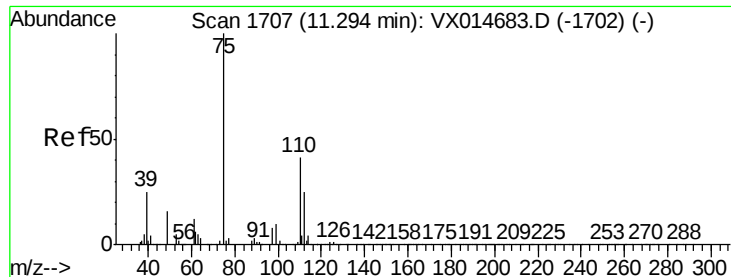
Tot Ion:106 Resp: 2443
Ion Ratio Lower Upper
106 100
91 161.1 106.2 318.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014852.D
Acq: 06 Feb 2020 16:57

Tgt Ion:152 Resp: 320881
Ion Ratio Lower Upper
152 100
115 54.3 39.4 118.1
150 152.3 0.0 351.2





#76

1,2,3-Trichloropropane

Concen: 20.377 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

Instrument :

MSVOA_X

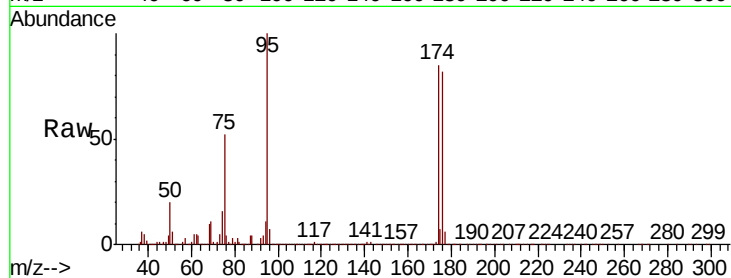
ClientSampled :

Tot Ion: 75 Resp: 152128

Ion Ratio Lower Upper

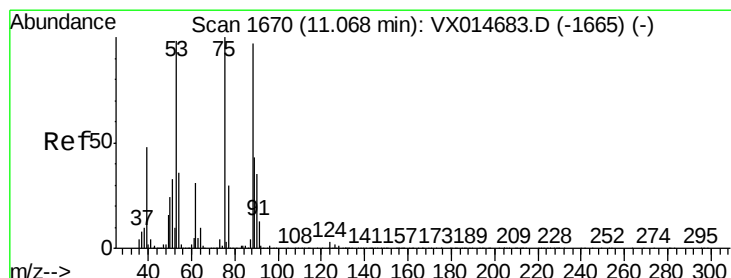
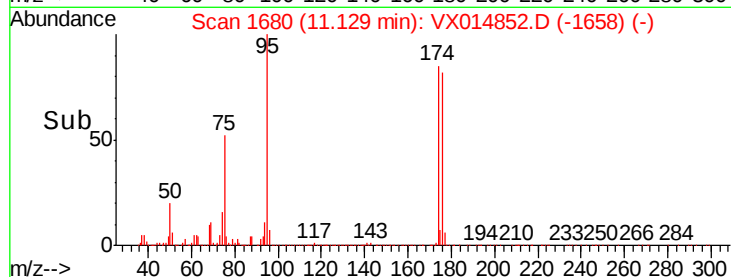
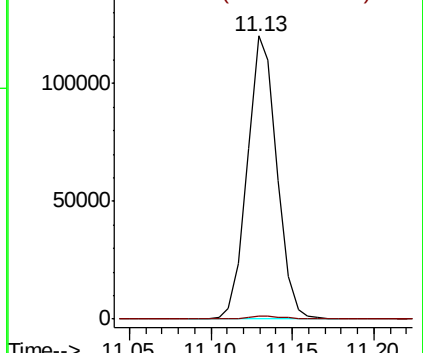
75 100

77 1.4 18.7 56.1#



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: 57.990 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

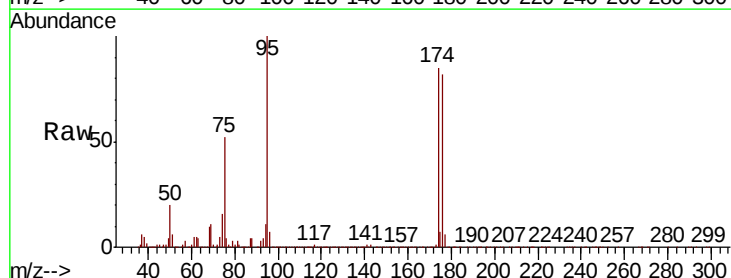
Tgt Ion: 75 Resp: 152128

Ion Ratio Lower Upper

75 100

53 0.4 78.8 118.2#

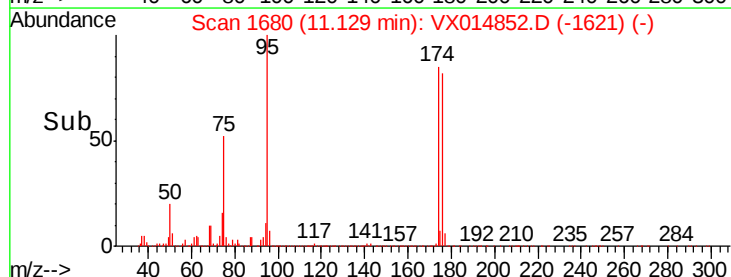
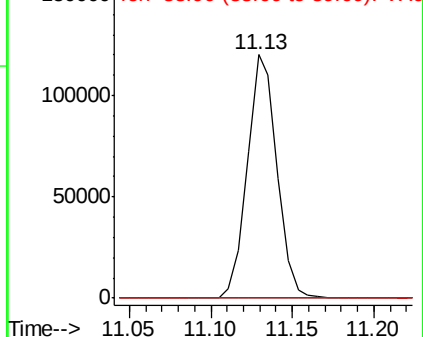
89 0.2 35.4 53.0#

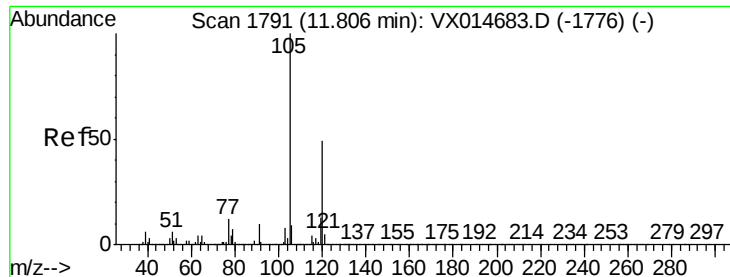


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84

1,2,4-Trimethylbenzene

Concen: 0.221 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

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Acq: 06 Feb 2020 16:57

Instrument :

MSVOA_X

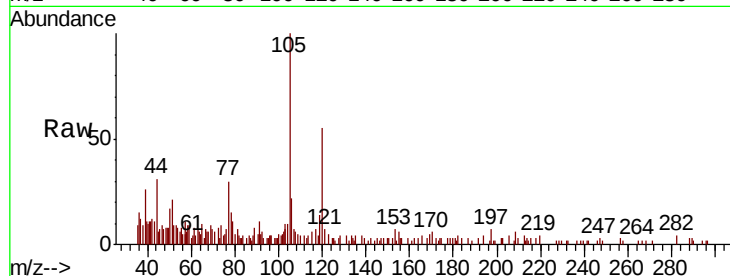
ClientSampleId :

Tot Ion:105 Resp: 4157

Ion Ratio Lower Upper

105 100

120 49.3 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

3000

2500

2000

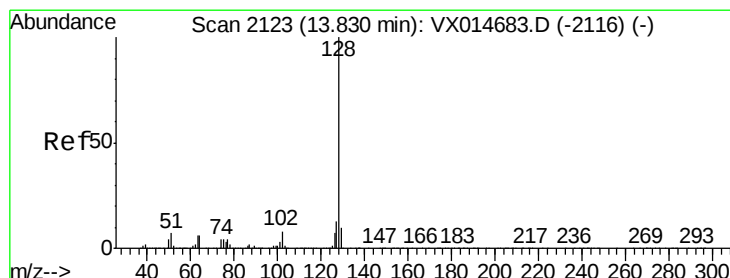
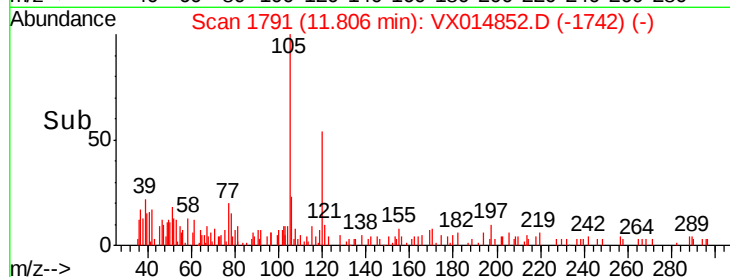
1500

1000

500

0

Time--> 11.75 11.80 11.85



#95

Naphthalene

Concen: 2.142 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014852.D

Acq: 06 Feb 2020 16:57

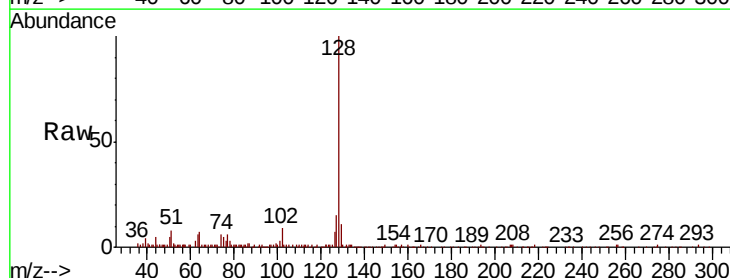
Tgt Ion:128 Resp: 27754

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

129 13.4 8.6 12.8#



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

30000

25000

20000

15000

10000

5000

0

Time--> 13.80 13.90

