

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040220\
 Data File : VX015482.D
 Acq On : 02 Apr 2020 15:21
 Operator : JC/SP
 Sample : PB127948ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 03 08:02:00 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	5.64	168	1103894	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.84	114	1782037	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1681862	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	898939	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	749241	48.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.24%	
35) Dibromofluoromethane	5.47	113	568934	49.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.88%	
50) Toluene-d8	8.70	98	2136236	50.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.88%	
62) 4-Bromofluorobenzene	11.12	95	925919	54.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.64%	

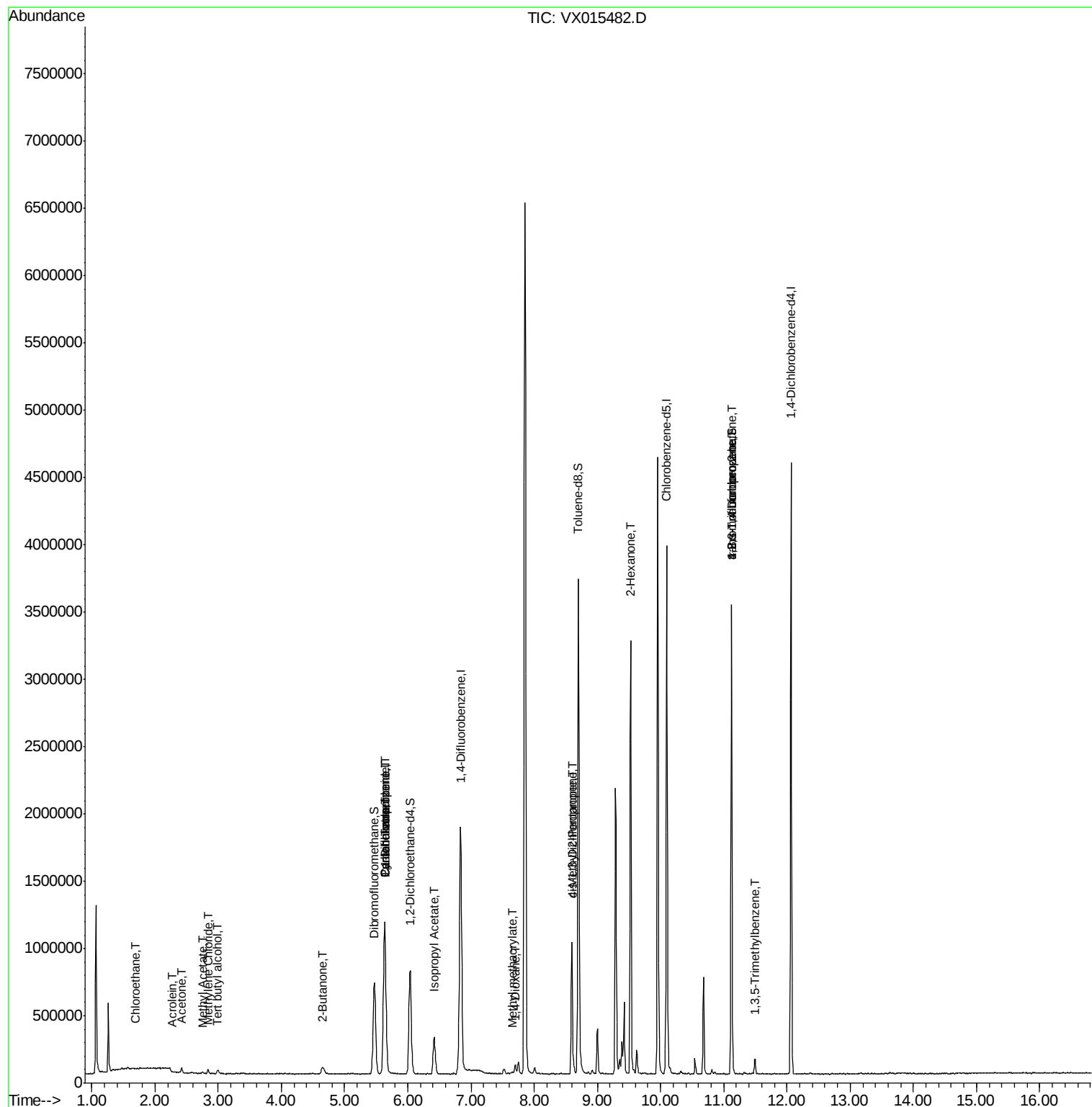
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	373	Below Cal	#	63
6) Chloroethane	1.69	64	1957	0.277	ug/l #	51
11) Tert butyl alcohol	2.99	59	18133	4.866	ug/l #	73
13) Acrolein	2.28	56	484	0.228	ug/l #	1
16) Acetone	2.42	43	46217	6.910	ug/l	99
18) Methyl Acetate	2.76	43	13326	0.781	ug/l #	90
20) Methylene Chloride	2.84	84	13199	1.056	ug/l	90
25) 2-Butanone	4.65	43	11344	1.055	ug/l #	77
31) Cyclohexane	5.64	56	23162	1.175	ug/l #	19
36) 1,1-Dichloropropene	5.64	75	84945	5.173	ug/l #	54
38) Carbon Tetrachloride	5.63	117	104004	5.848	ug/l #	15
43) Isopropyl Acetate	6.42	43	389383	10.789	ug/l	99
48) Methyl methacrylate	7.65	41	19948	1.107	ug/l #	18
49) 1,4-Dioxane	7.71	88	788	2.343	ug/l #	20
51) 4-Methyl-2-Pentanone	8.59	43	378864	18.523	ug/l #	52
54) cis-1,3-Dichloropropene	8.60	75	151795	6.909	ug/l #	55
59) 2-Hexanone	9.53	43	408166	26.433	ug/l #	51
76) 1,2,3-Trichloropropane	11.12	75	469616	25.404	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.49	105	47603	0.946	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.12	75	469616	60.956	ug/l #	10

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

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Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.01 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA_X

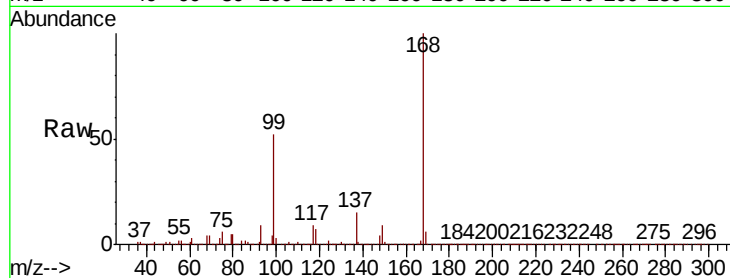
ClientSampleId :

Tot Ion:168 Resp: 1103894

Ion Ratio Lower Upper

168 100

99 51.7 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

200000

100000

0

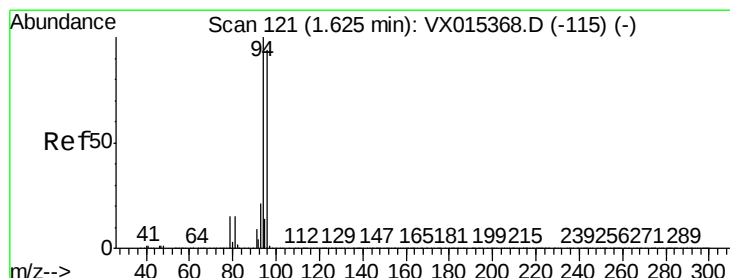
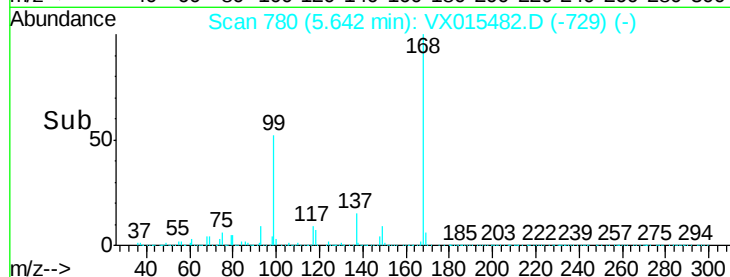
5.50

5.60

5.70

5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX015482.D

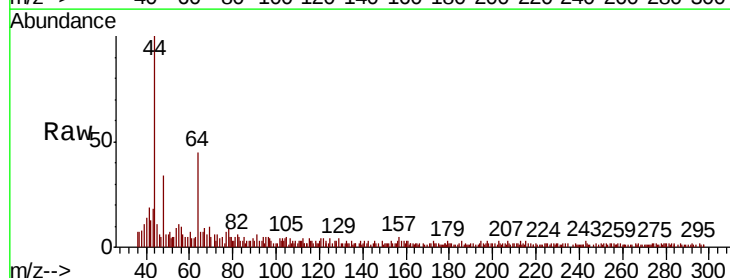
Acq: 02 Apr 2020 15:21

Tgt Ion: 94 Resp: 373

Ion Ratio Lower Upper

94 100

96 57.6 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

600

400

200

0

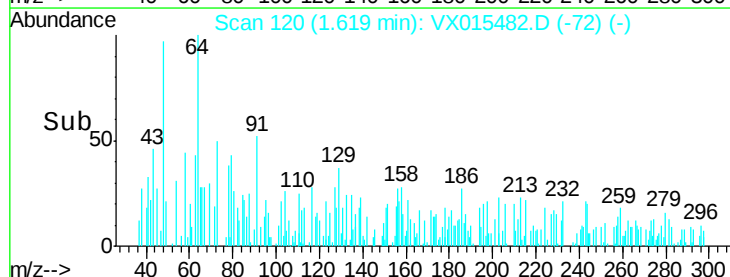
1.60

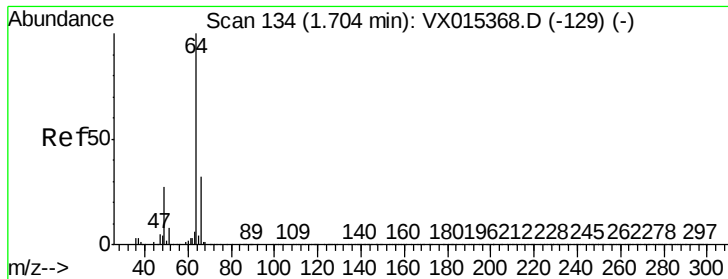
1.61

1.62

1.63

Time-->





#6

Chloroethane

Concen: 0.277 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA_X

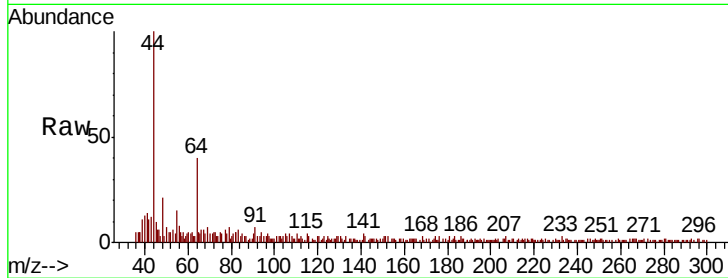
ClientSampleId :

Tot Ion: 64 Resp: 1957

Ion Ratio Lower Upper

64 100

66 4.8 25.4 38.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.69

5000

4000

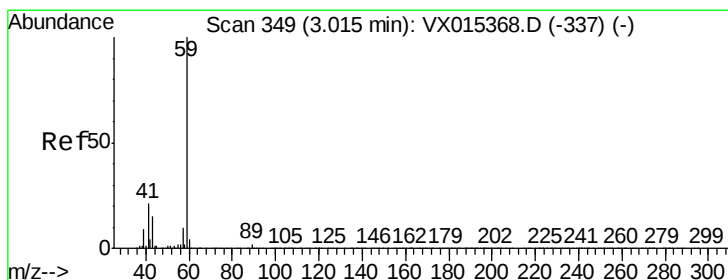
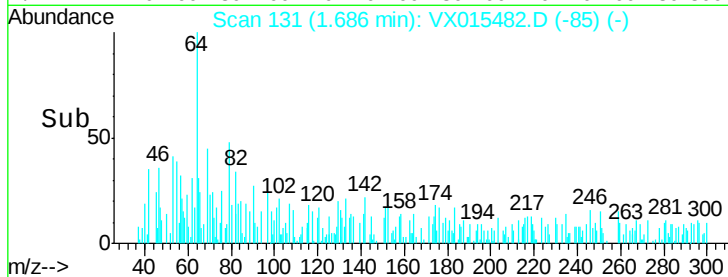
3000

2000

1000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.866 ug/l

RT: 2.99 min Scan# 345

Delta R.T. -0.02 min

Lab File: VX015482.D

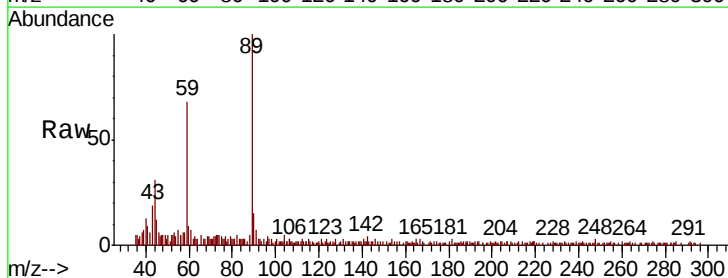
Acq: 02 Apr 2020 15:21

Tgt Ion: 59 Resp: 18133

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

2.99

8000

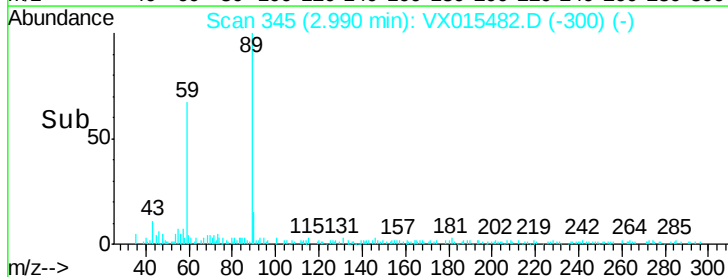
6000

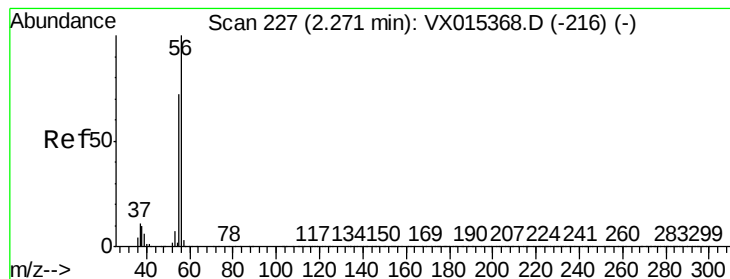
4000

2000

0

Time-->





#13

Acrolein

Concen: 0.228 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.01 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA_X

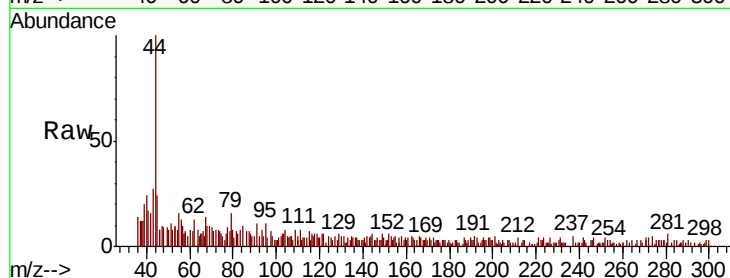
ClientSampleId :

Tot Ion: 56 Resp: 484

Ion Ratio Lower Upper

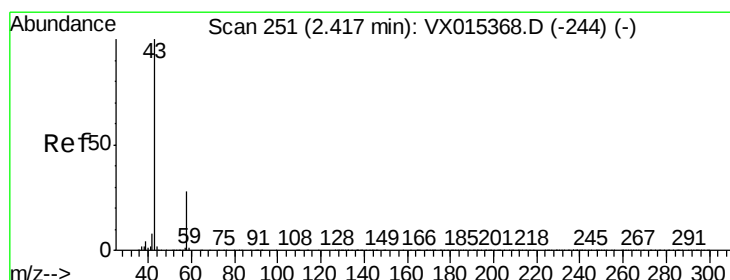
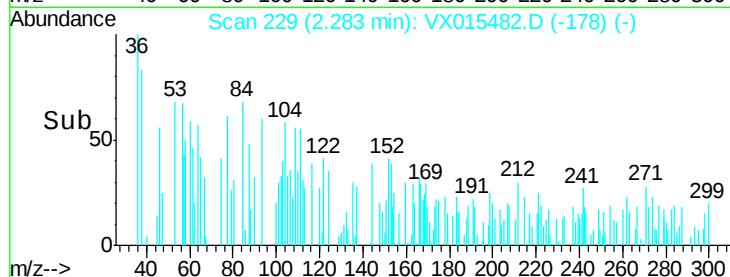
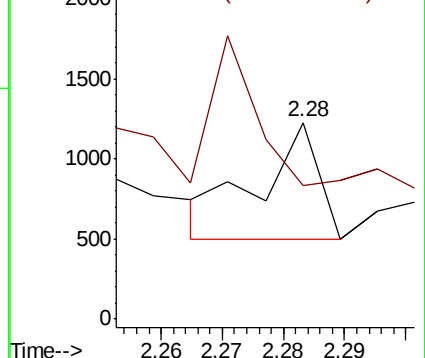
56 100

55 155.4 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 6.910 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015482.D

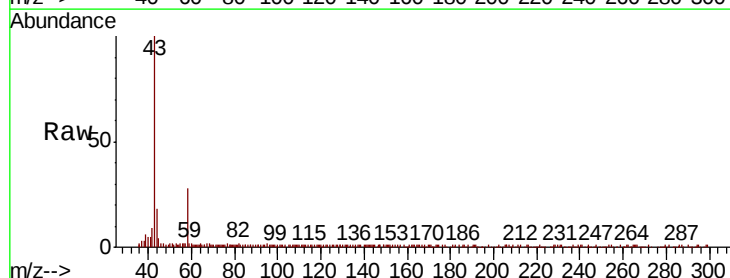
Acq: 02 Apr 2020 15:21

Tgt Ion: 43 Resp: 46217

Ion Ratio Lower Upper

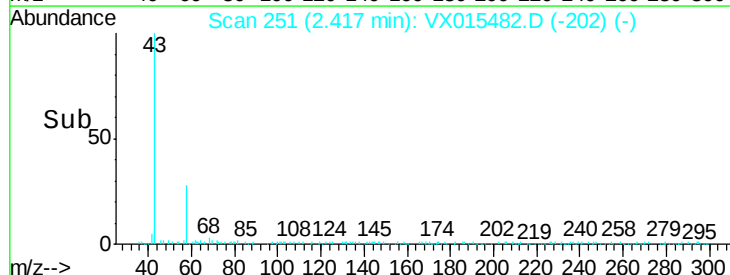
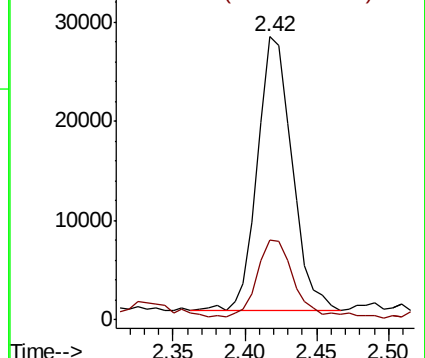
43 100

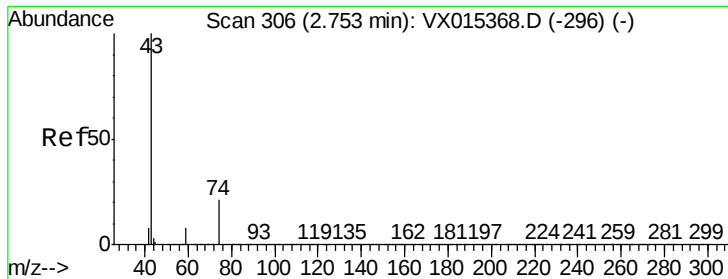
58 27.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

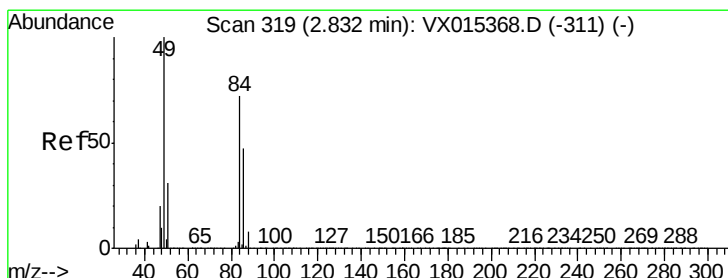
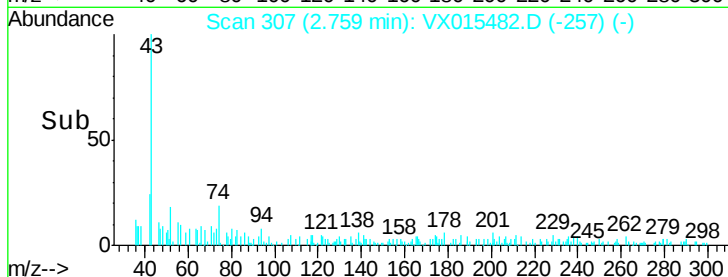
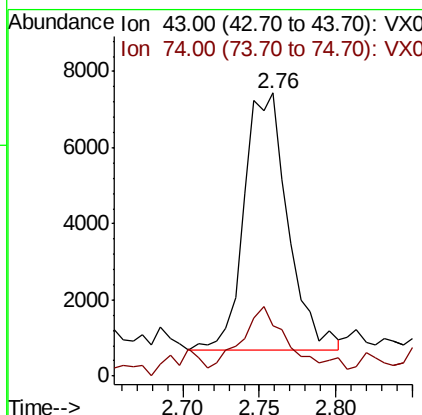
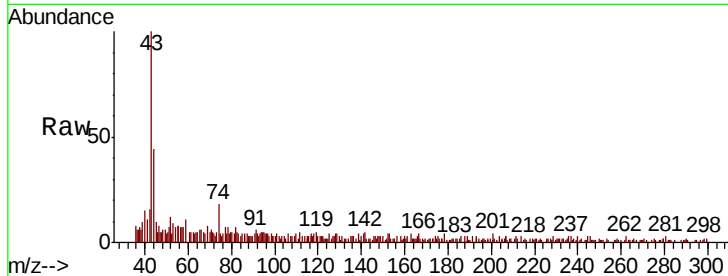




#18
Methyl Acetate
Concen: 0.781 ug/l
RT: 2.76 min Scan# 307
Delta R.T. 0.01 min
Lab File: VX015482.D
Acq: 02 Apr 2020 15:21

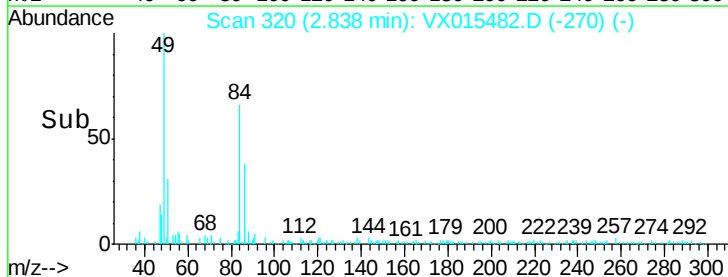
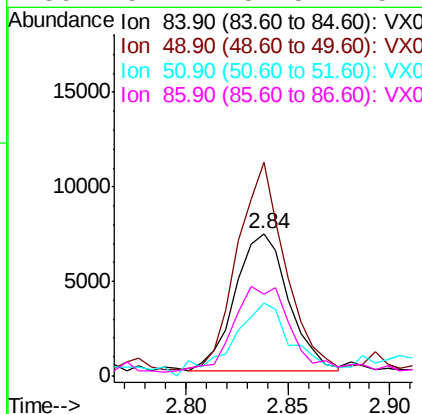
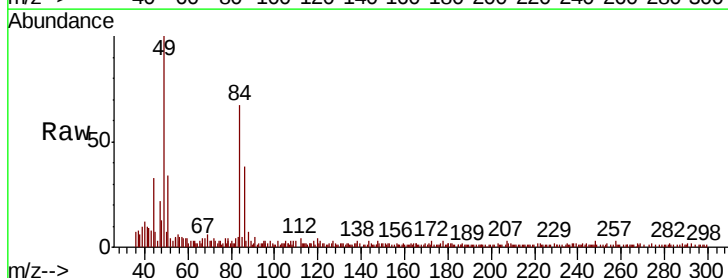
Instrument :
MSVOA_X
ClientSampled :

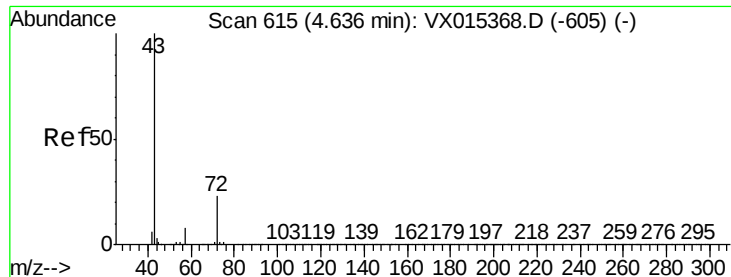
Tot Ion: 43 Resp: 13326
Ion Ratio Lower Upper
43 100
74 25.3 16.5 24.7#



#20
Methylene Chloride
Concen: 1.056 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015482.D
Acq: 02 Apr 2020 15:21

Tgt Ion: 84 Resp: 13199
Ion Ratio Lower Upper
84 100
49 150.4 111.3 166.9
51 47.1 34.0 51.0
86 54.2 52.5 78.7





#25

2-Butanone

Concen: 1.055 ug/l

RT: 4.65 min Scan# 618

Delta R.T. 0.02 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA_X

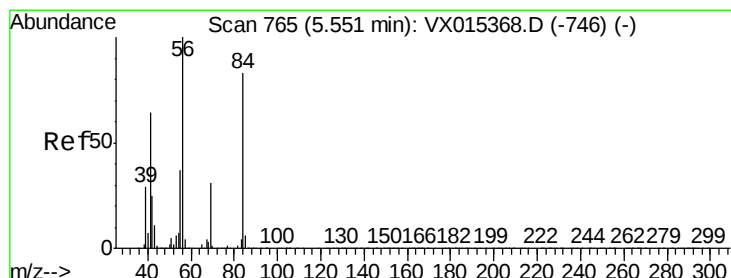
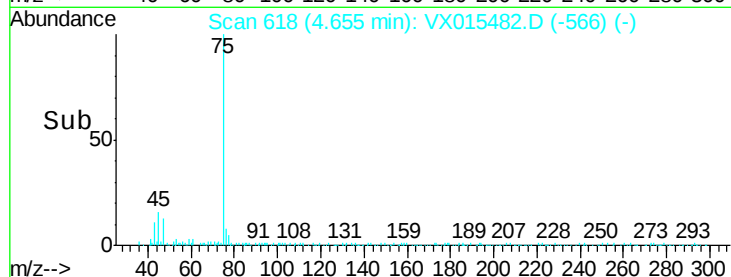
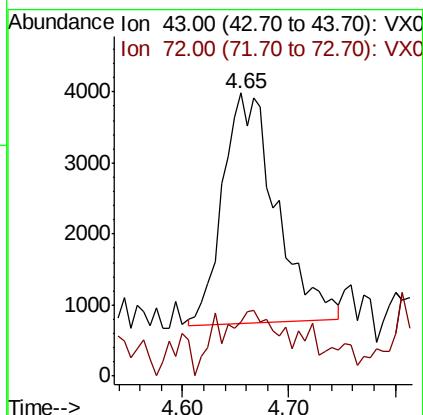
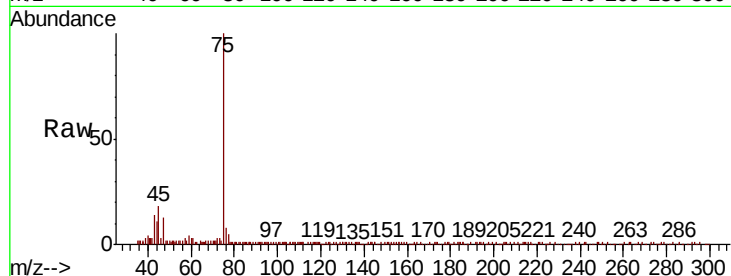
ClientSampleId :

Tot Ion: 43 Resp: 11344

Ion Ratio Lower Upper

43 100

72 12.5 19.0 28.4#



#31

Cyclohexane

Concen: 1.175 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.09 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

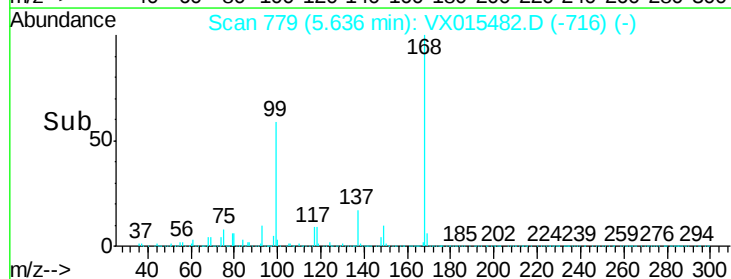
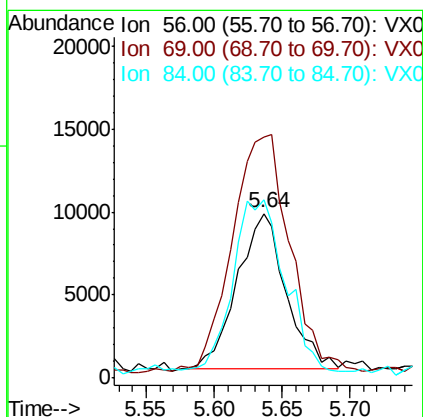
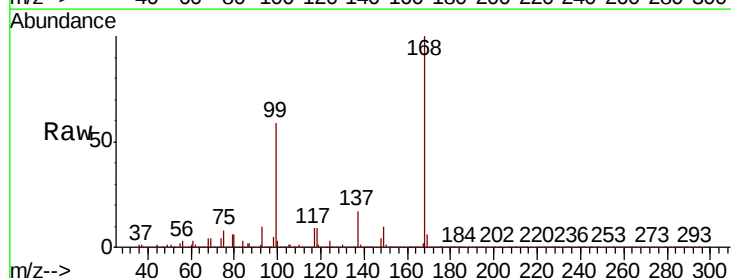
Tgt Ion: 56 Resp: 23162

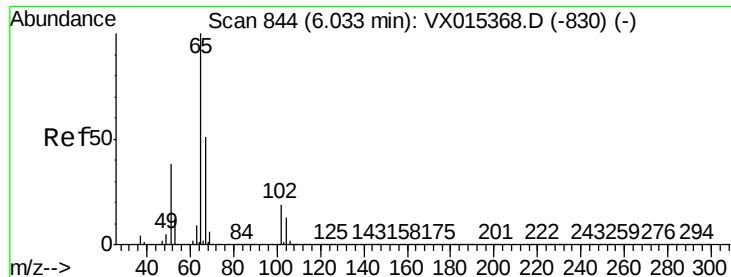
Ion Ratio Lower Upper

56 100

69 148.7 24.6 36.8#

84 110.8 66.1 99.1#





#33

1,2-Dichloroethane-d4

Concen: 48.123 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA_X

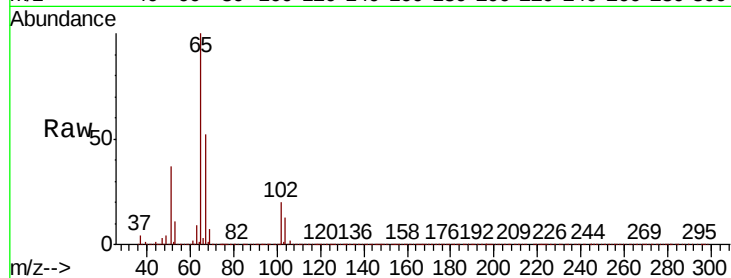
ClientSampleId :

Tot Ion: 65 Resp: 749241

Ion Ratio Lower Upper

65 100

67 50.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.04

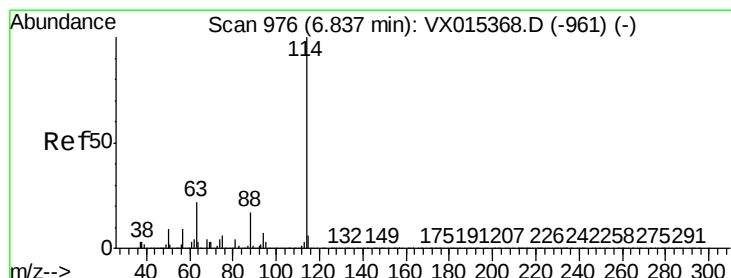
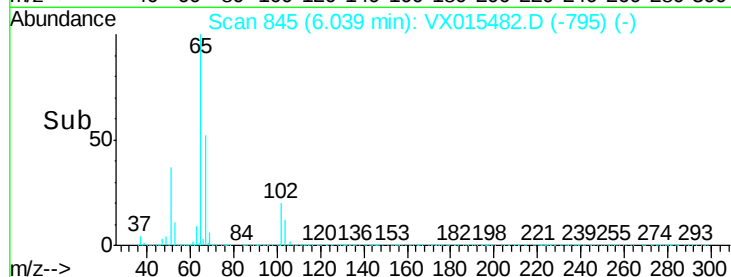
300000

200000

100000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

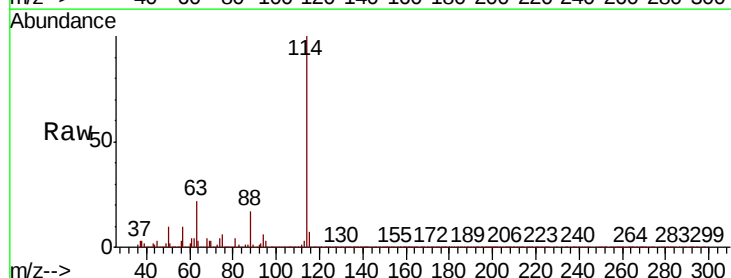
Tgt Ion: 114 Resp: 1782037

Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.2

88 16.9 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

1000000

800000

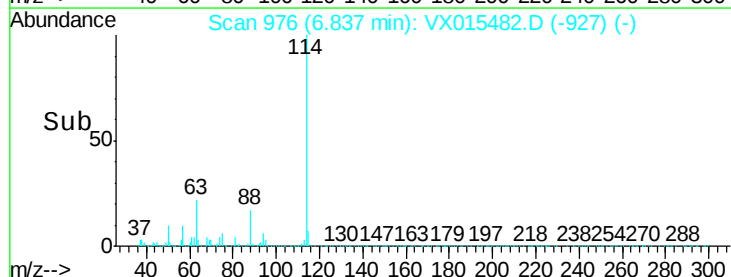
600000

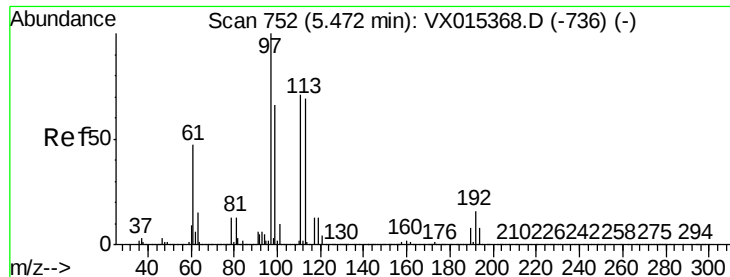
400000

200000

0

Time-->

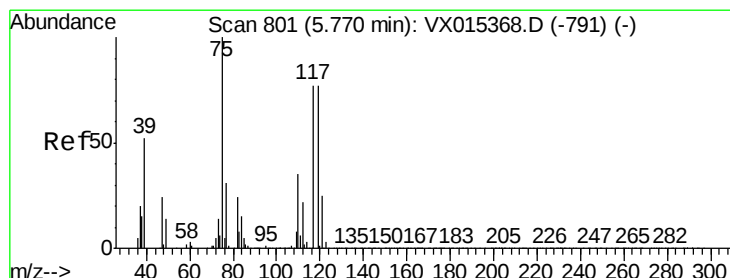
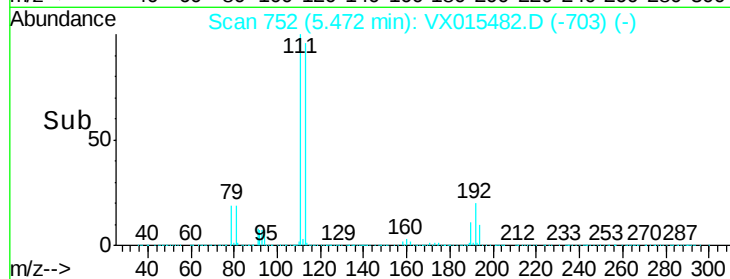
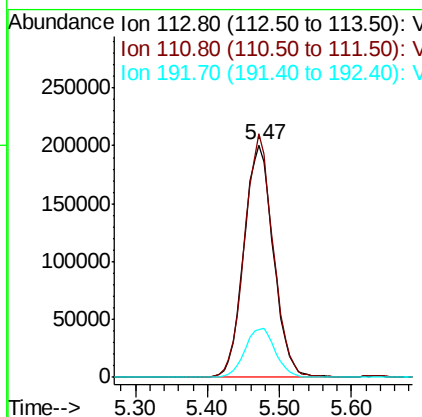
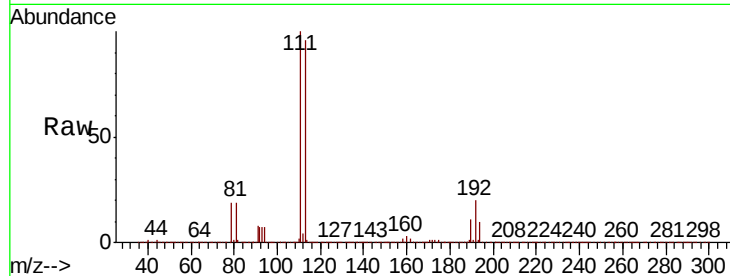




#35
 Dibromofluoromethane
 Concen: 49.945 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: VX015482.D
 Acq: 02 Apr 2020 15:21

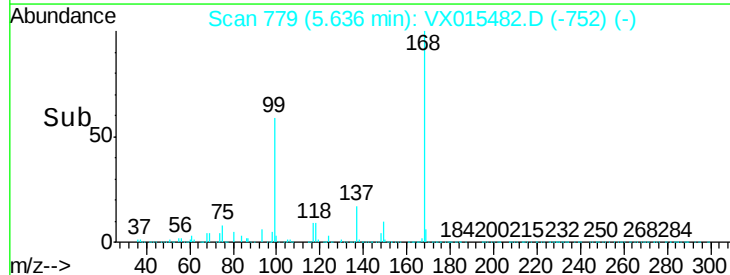
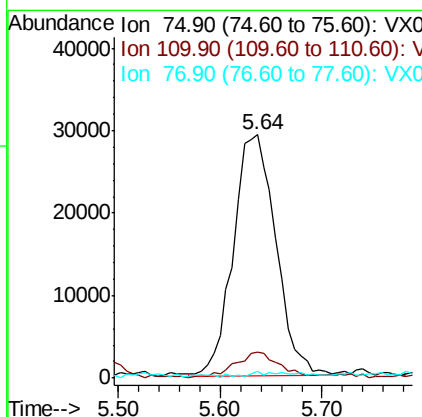
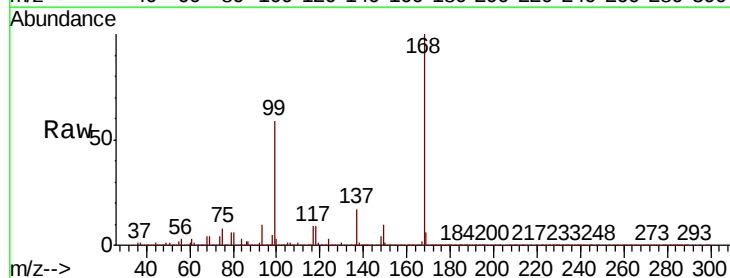
Instrument :
 MSVOA_X
 ClientSampled :

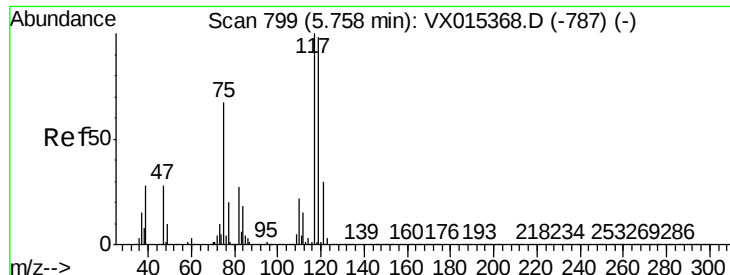
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.5	122.3
192	21.8	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 5.173 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015482.D
 Acq: 02 Apr 2020 15:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.5	17.1	51.3#
77	1.3	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.848 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA_X

ClientSampleId :

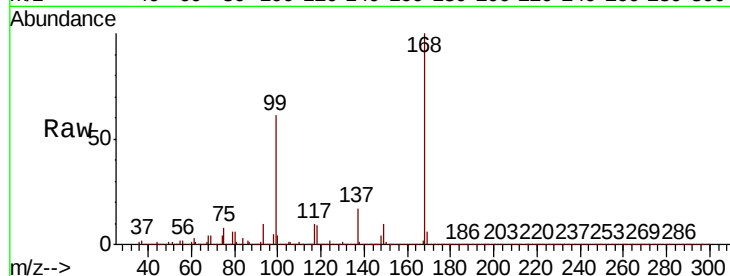
Tot Ion:117 Resp: 104004

Ion Ratio Lower Upper

117 100

119 4.3 78.0 117.0#

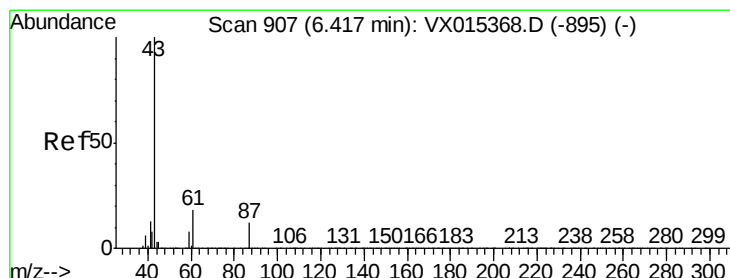
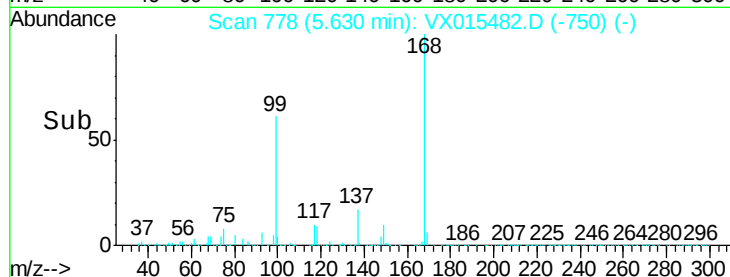
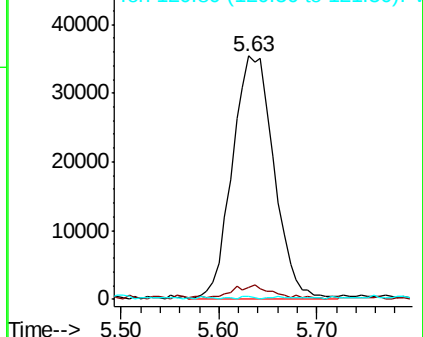
121 0.5 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 10.789 ug/l

RT: 6.42 min Scan# 907

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

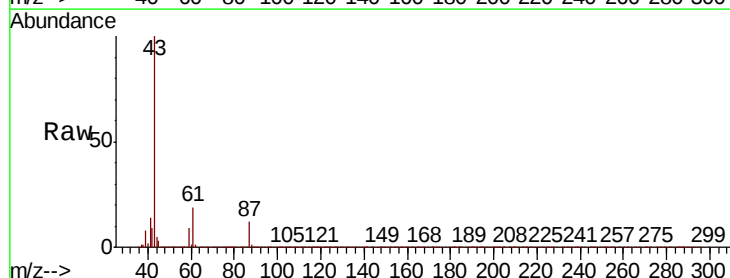
Tgt Ion: 43 Resp: 389383

Ion Ratio Lower Upper

43 100

61 18.9 14.8 22.2

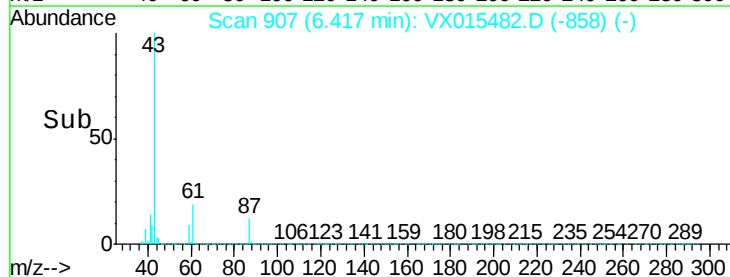
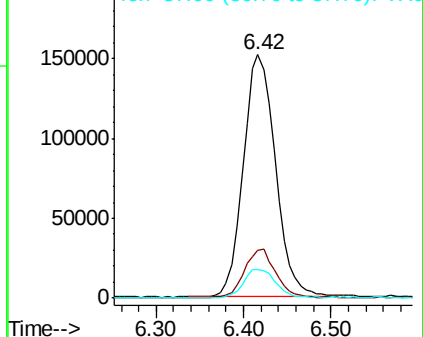
87 11.7 9.4 14.0

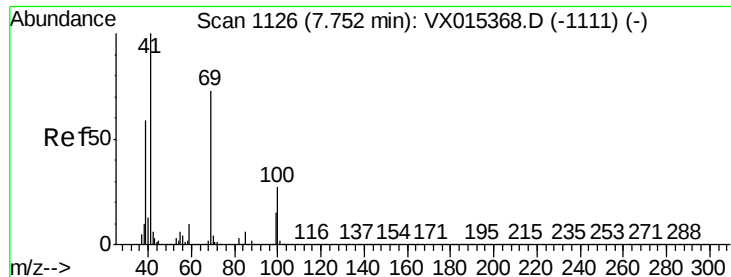


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

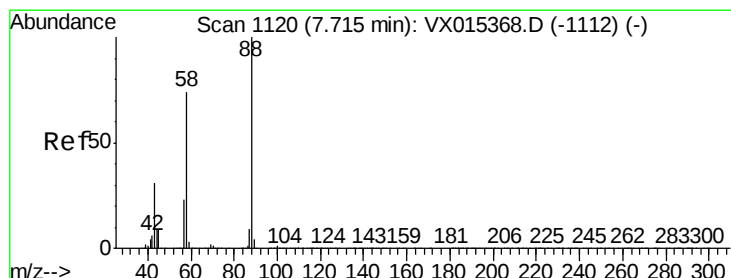
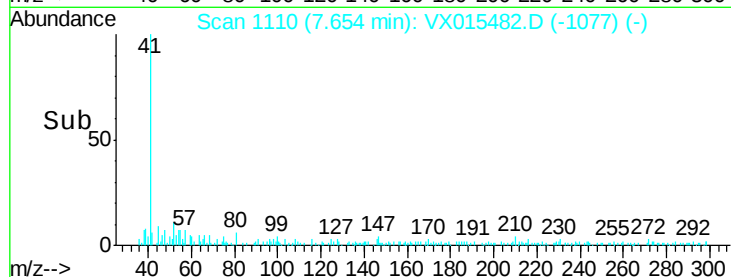
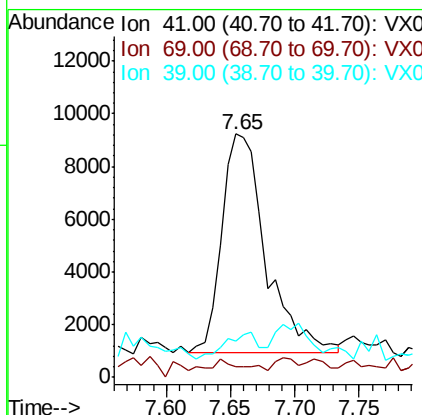
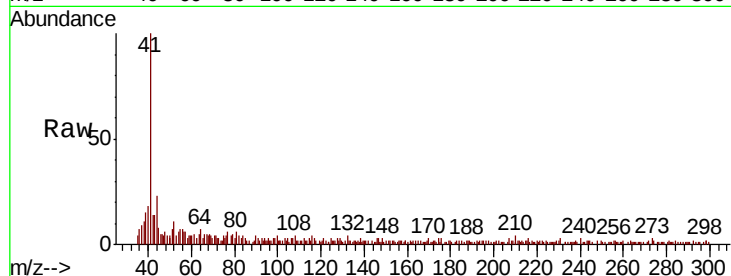




#48
Methvl methacrylate
Concen: 1.107 ug/l
RT: 7.65 min Scan# 1110
Delta R.T. -0.10 min
Lab File: VX015482.D
Acq: 02 Apr 2020 15:21

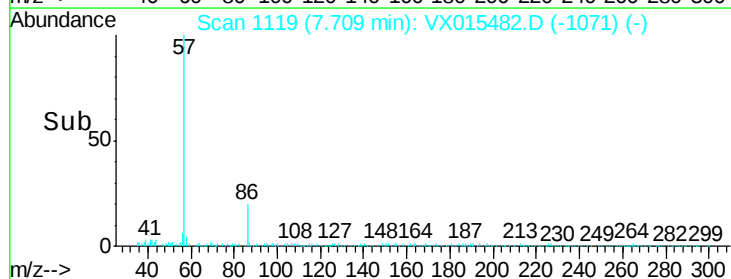
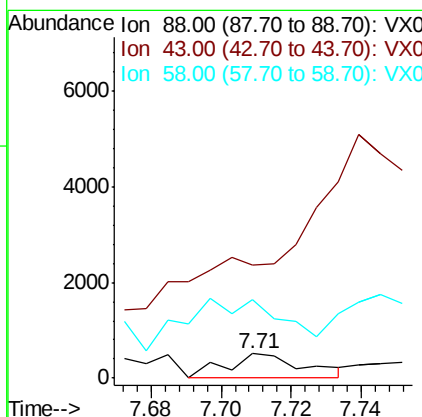
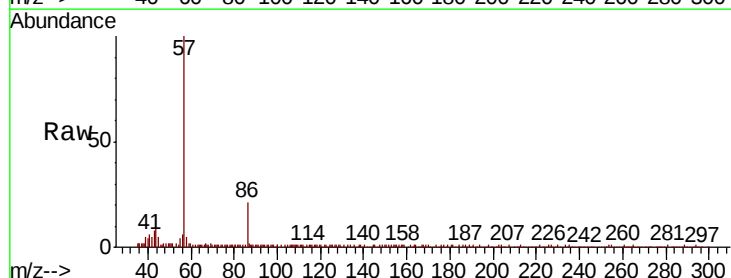
Instrument :
MSVOA_X
ClientSampleId :

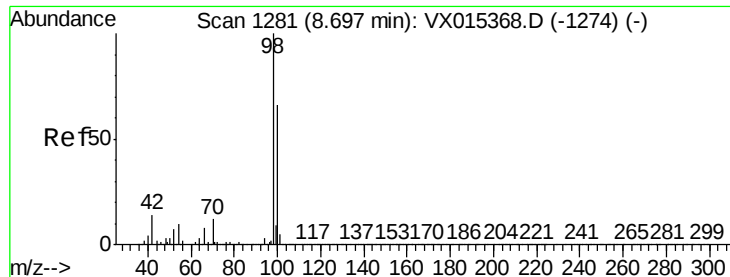
Tot Ion	Ratio	Lower	Upper
41	100		
69	1.2	56.7	85.1#
39	0.0	46.5	69.7#



#49
1,4-Dioxane
Concen: 2.343 ug/l
RT: 7.71 min Scan# 1119
Delta R.T. -0.01 min
Lab File: VX015482.D
Acq: 02 Apr 2020 15:21

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	30.1	45.1#
58	0.0	60.6	90.8#





#50

Toluene-d8

Concen: 50.936 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA_X

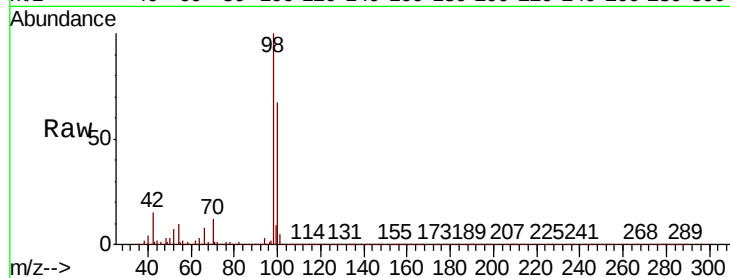
ClientSampleId :

Tot Ion: 98 Resp: 2136236

Ion Ratio Lower Upper

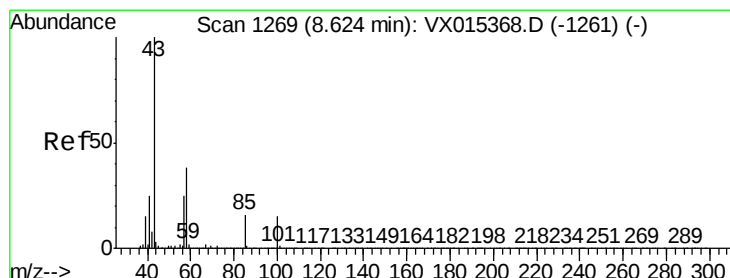
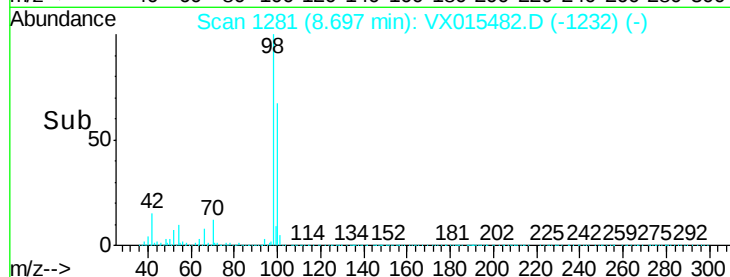
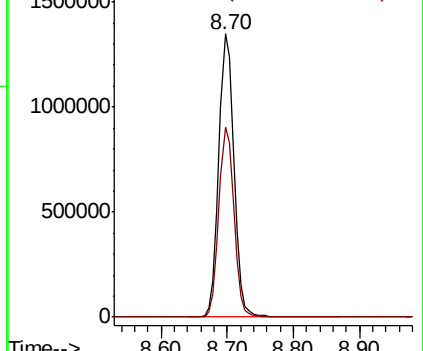
98 100

100 66.8 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: 18.523 ug/l

RT: 8.59 min Scan# 1264

Delta R.T. -0.03 min

Lab File: VX015482.D

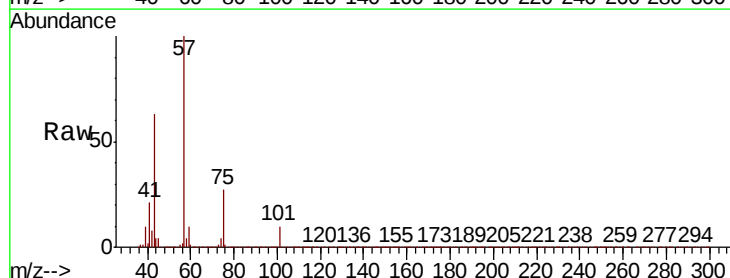
Acq: 02 Apr 2020 15:21

Tgt Ion: 43 Resp: 378864

Ion Ratio Lower Upper

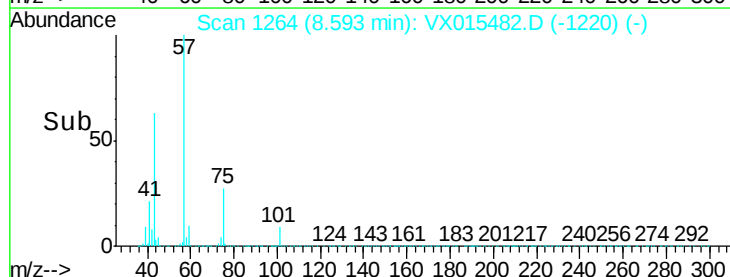
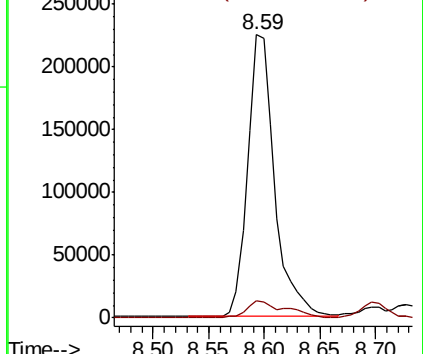
43 100

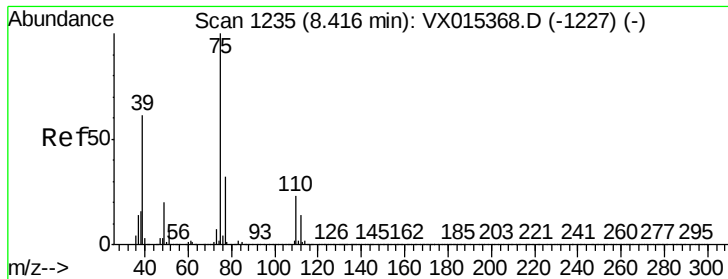
58 8.7 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



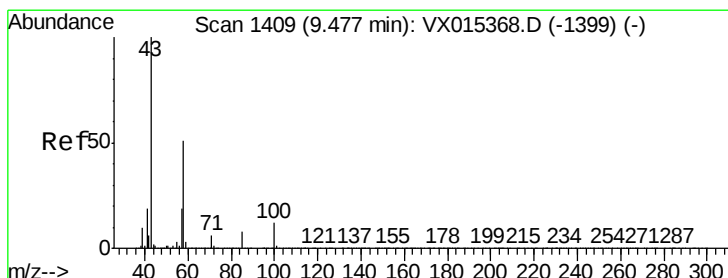
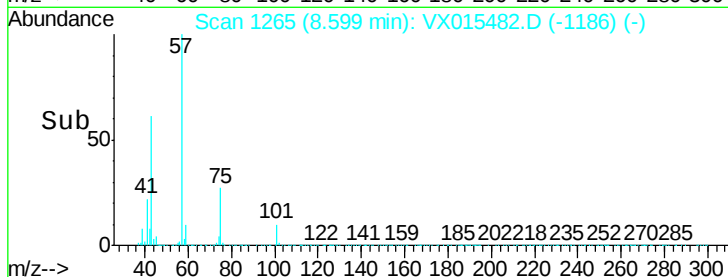
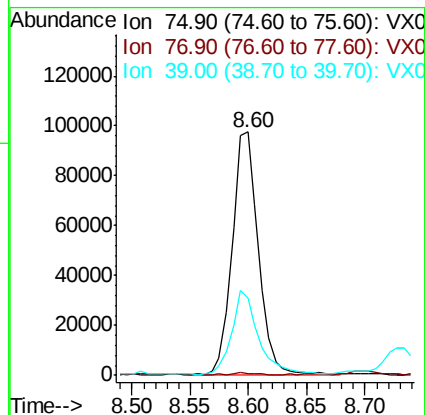
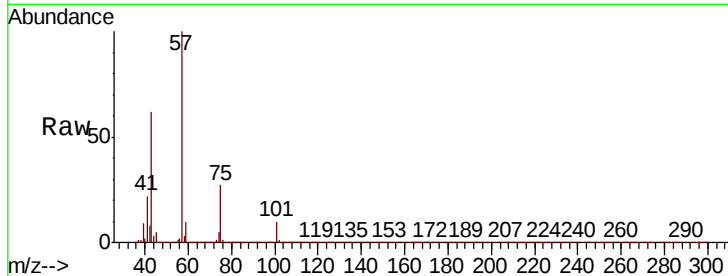


#54

cis-1,3-Dichloropropene
Concen: 6.909 ug/l
RT: 8.60 min Scan# 1265
Delta R.T. 0.18 min
Lab File: VX015482.D
Acq: 02 Apr 2020 15:21

Instrument :
MSVOA_X
ClientSampleId :

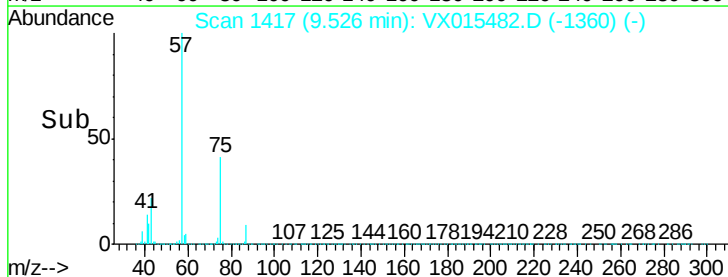
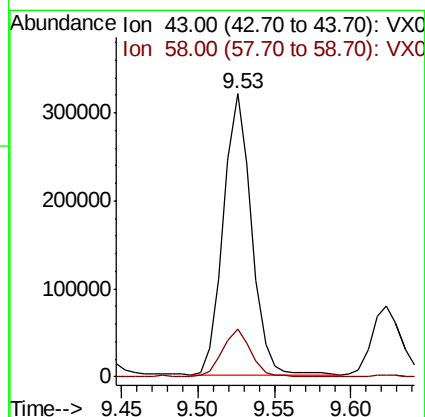
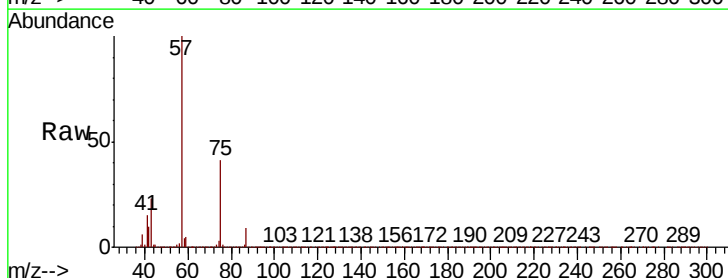
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.5	25.8	38.6#
39	31.3	49.0	73.4#

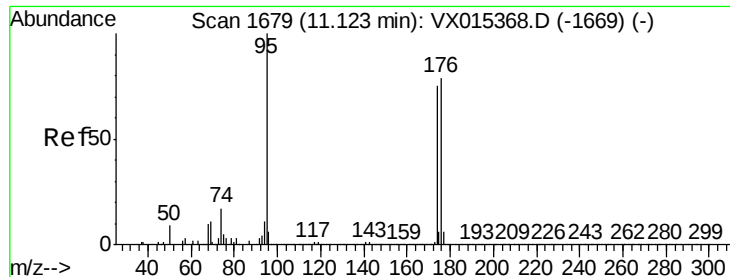


#59

2-Hexanone
Concen: 26.433 ug/l
RT: 9.53 min Scan# 1417
Delta R.T. 0.05 min
Lab File: VX015482.D
Acq: 02 Apr 2020 15:21

Tgt Ion	Ratio	Lower	Upper
43	100		
58	16.9	25.6	76.6#





#62

4-Bromofluorobenzene

Concen: 54.324 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA_X

ClientSampled :

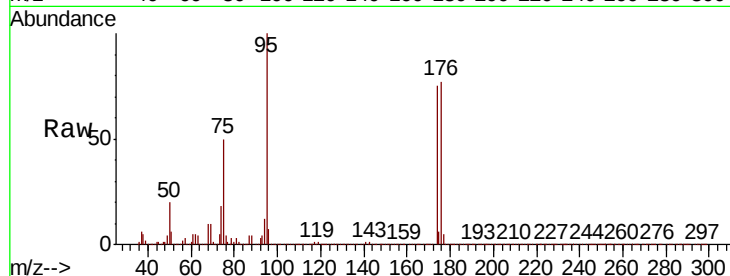
Tot Ion: 95 Resp: 925919

Ion Ratio Lower Upper

95 100

174 77.8 0.0 158.6

176 75.9 0.0 159.0



Abundance Ion 94.90 (94.60 to 95.60): VX015482.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX015482.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX015482.D (-1630) (-)

11.12

800000

600000

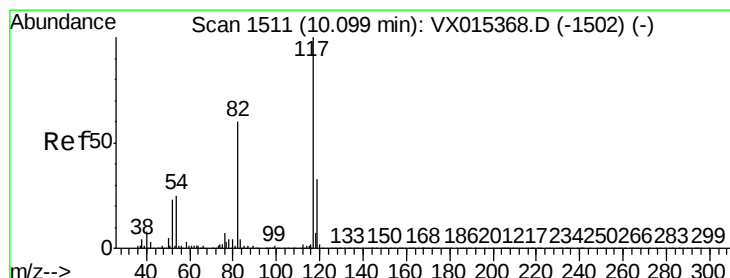
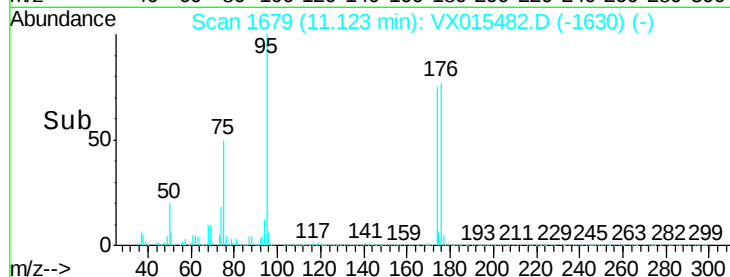
400000

200000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

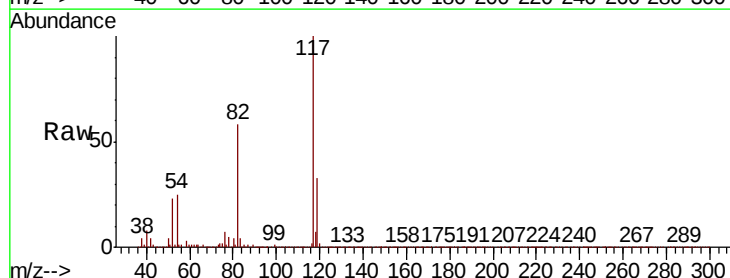
Tgt Ion: 117 Resp: 1681862

Ion Ratio Lower Upper

117 100

82 58.3 47.8 71.8

119 32.9 26.8 40.2



Abundance Ion 116.90 (116.60 to 117.60): VX015482.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015482.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015482.D (-1462) (-)

10.10

1500000

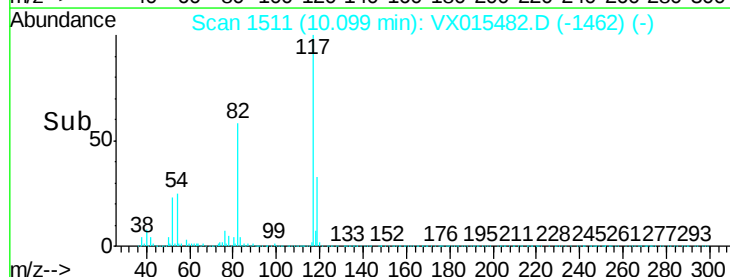
1000000

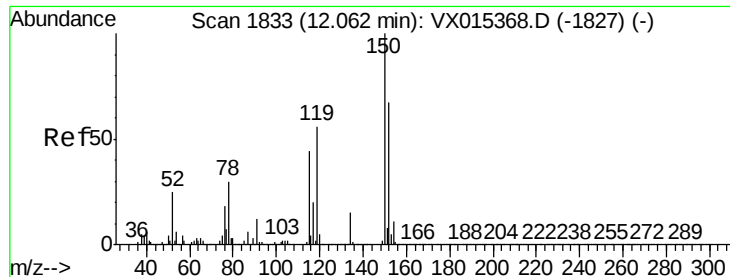
500000

0

10.00 10.10 10.20

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA_X

ClientSampleId :

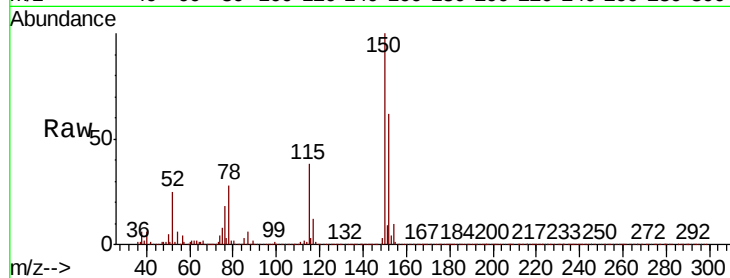
Tot Ion:152 Resp: 898939

Ion Ratio Lower Upper

152 100

115 58.8 39.0 116.9

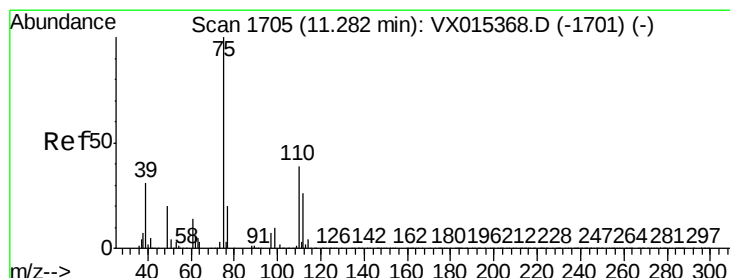
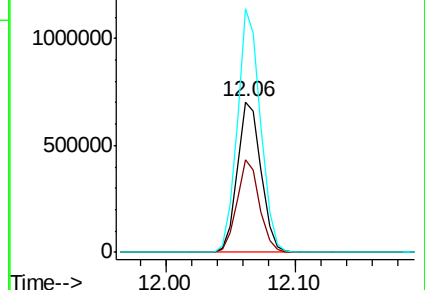
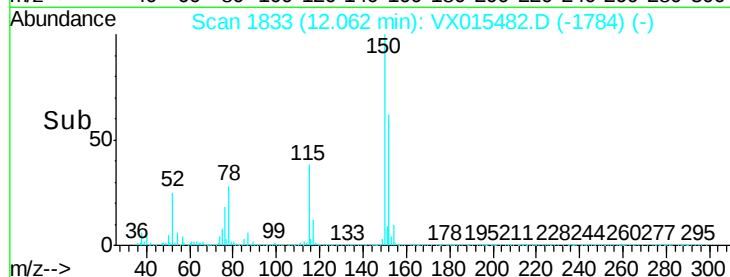
150 157.8 0.0 340.8



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: 25.404 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015482.D

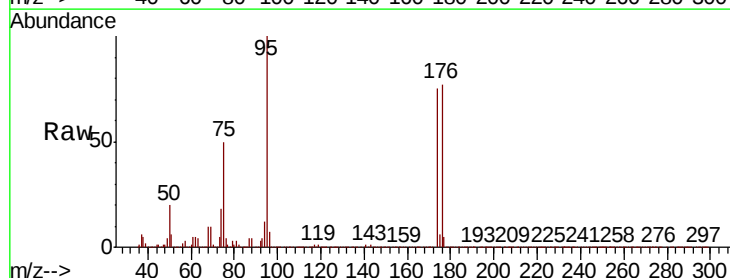
Acq: 02 Apr 2020 15:21

Tgt Ion: 75 Resp: 469616

Ion Ratio Lower Upper

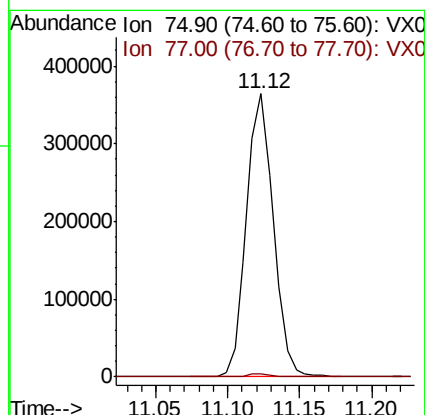
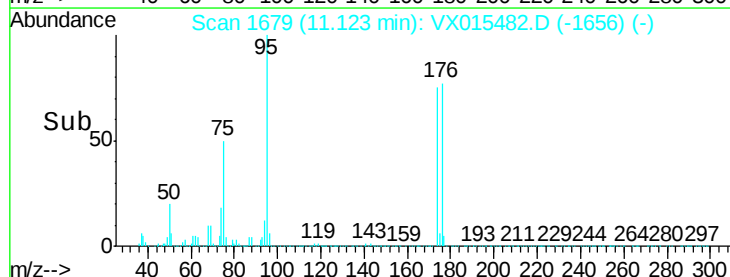
75 100

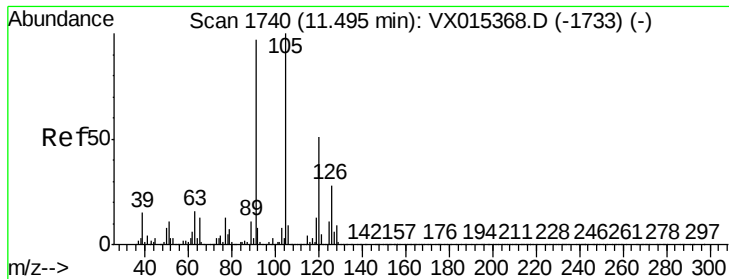
77 1.1 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.946 ug/l

RT: 11.49 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

Instrument :

MSVOA_X

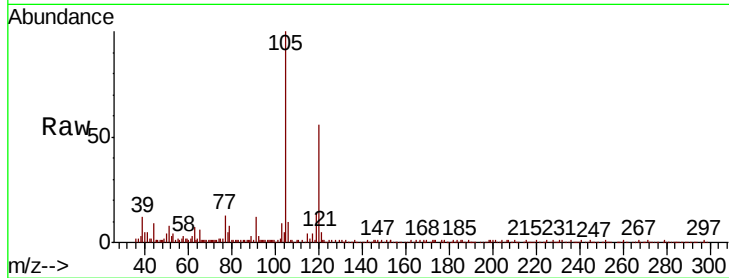
ClientSampleId :

Tot Ion:105 Resp: 47603

Ion Ratio Lower Upper

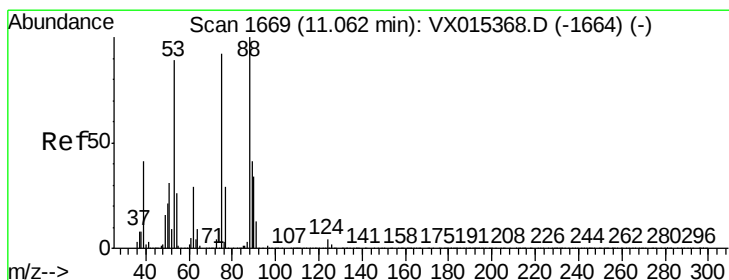
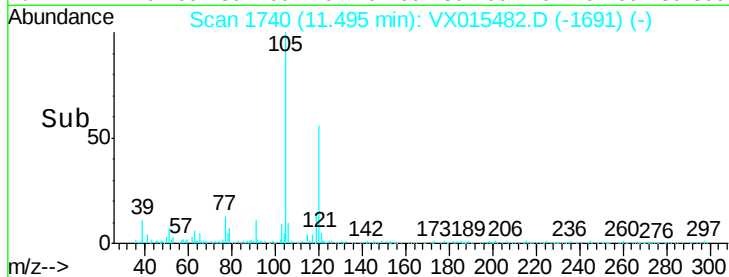
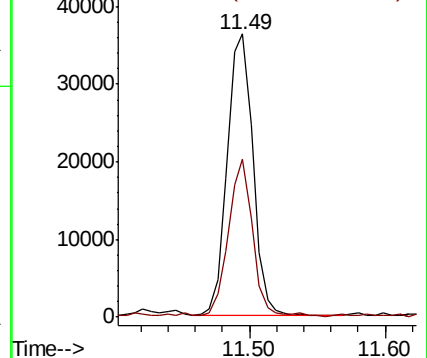
105 100

120 52.8 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 60.956 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015482.D

Acq: 02 Apr 2020 15:21

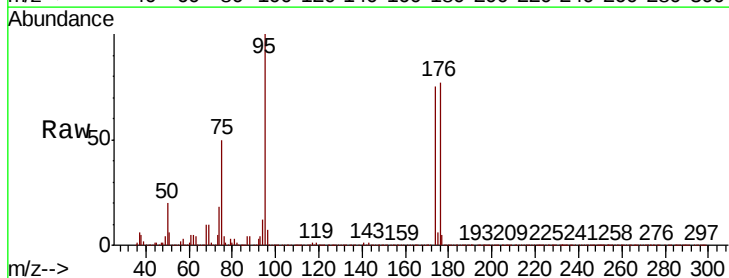
Tgt Ion: 75 Resp: 469616

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

