

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX033020\
 Data File : VX015434.D
 Acq On : 30 Mar 2020 17:35
 Operator : JC/SP
 Sample : L2022-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 31 08:53:38 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

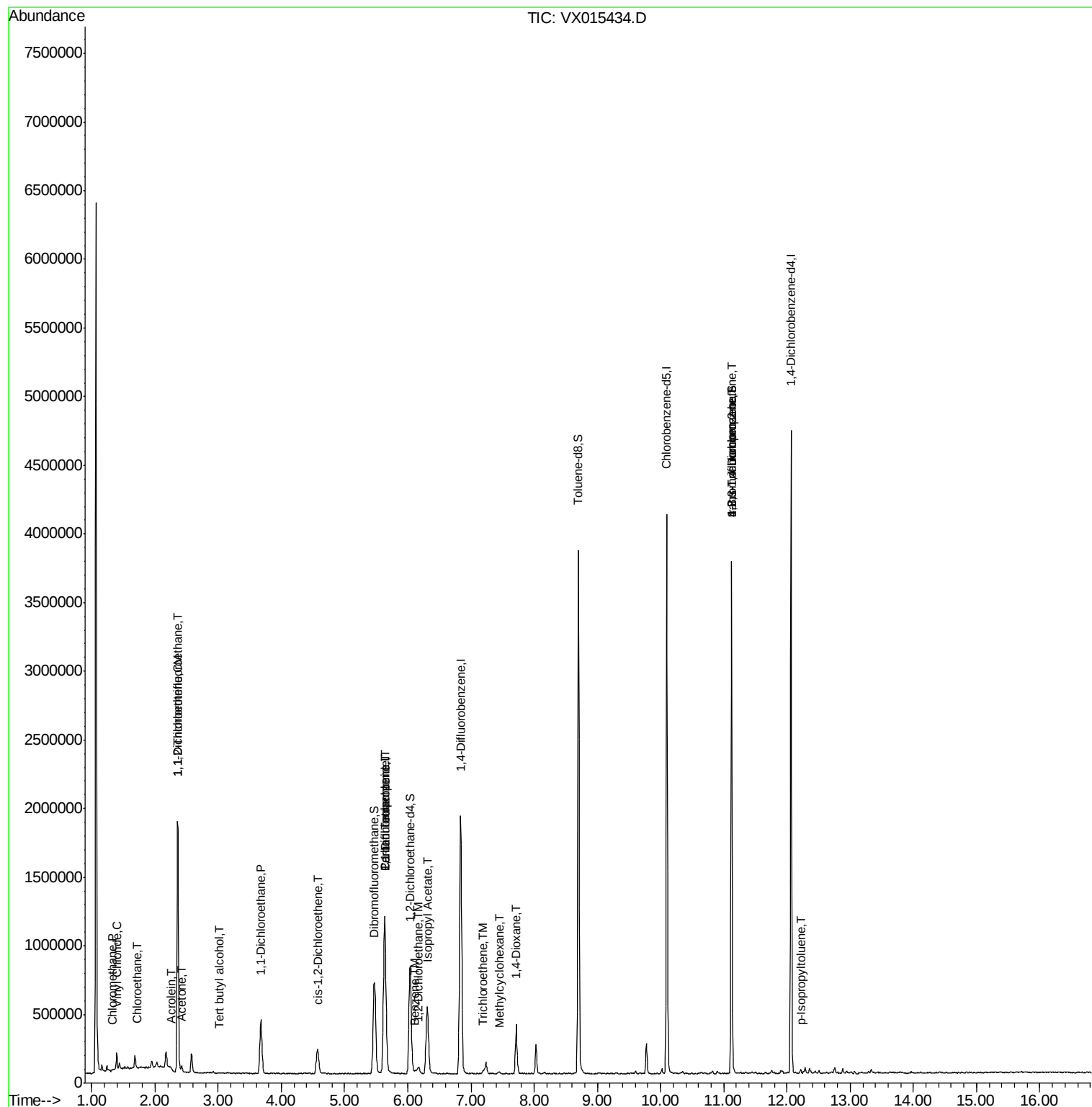
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1104058	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1822696	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1737422	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	938137	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.04	65	765427	49.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.32%	
35) Dibromofluoromethane	5.47	113	575669	49.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.82%	
50) Toluene-d8	8.70	98	2235693	52.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.24%	
62) 4-Bromofluorobenzene	11.12	95	968921	55.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.16%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.31	50	2491	0.201	ug/l	99
4) Vinyl Chloride	1.39	62	74414	6.542	ug/l	98
5) Bromomethane	1.65	94	991	Below Cal	#	3
6) Chloroethane	1.72	64	2617	0.371	ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.35	101	2451	0.246	ug/l #	27
11) Tert butyl alcohol	3.01	59	4067	1.091	ug/l #	81
12) 1,1-Dichloroethene	2.36	96	581258	55.764	ug/l	94
13) Acrolein	2.25	56	1152	0.543	ug/l #	1
16) Acetone	2.42	43	53711	8.029	ug/l	96
24) 1,1-Dichloroethane	3.67	63	462926	20.373	ug/l	98
27) cis-1,2-Dichloroethene	4.57	96	113280	8.464	ug/l	91
36) 1,1-Dichloropropene	5.64	75	86505	5.151	ug/l #	51
38) Carbon Tetrachloride	5.64	117	111411	6.125	ug/l #	15
39) Methylcyclohexane	7.45	83	6842	0.353	ug/l #	70
40) Benzene	6.12	78	27523	0.559	ug/l	95
42) 1,2-Dichloroethane	6.17	62	58105	2.940	ug/l	98
43) Isopropyl Acetate	6.31	43	159816	4.329	ug/l #	65
44) Trichloroethene	7.20	130	10940	0.815	ug/l	88
49) 1,4-Dioxane	7.71	88	248155	721.459	ug/l	98
76) 1,2,3-Trichloropropane	11.12	75	500253	25.931	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	500253	62.219	ug/l #	13
86) p-Isopropyltoluene	12.22	119	11995	0.218	ug/l	94

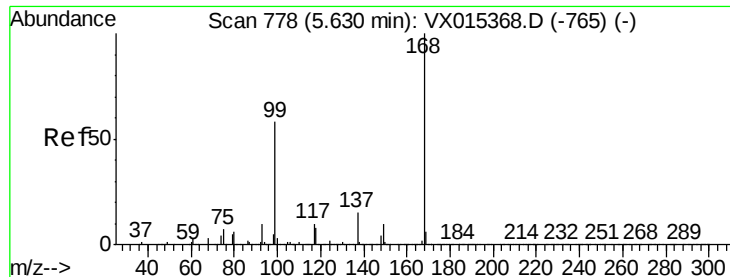
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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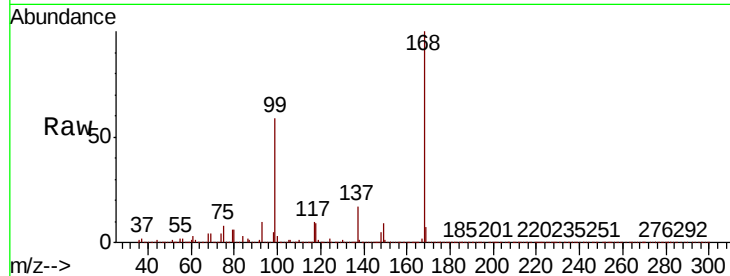


#1

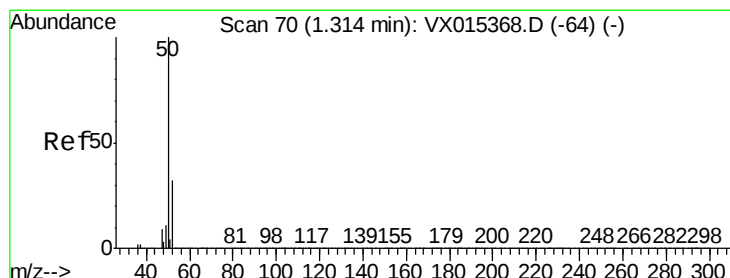
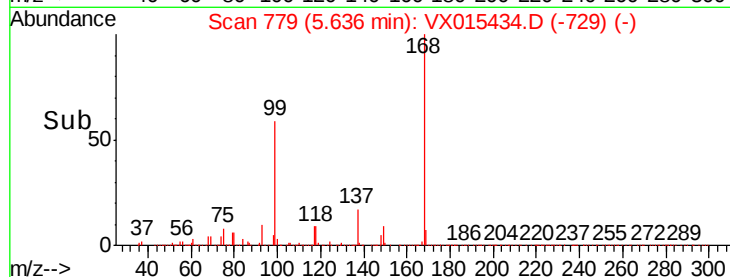
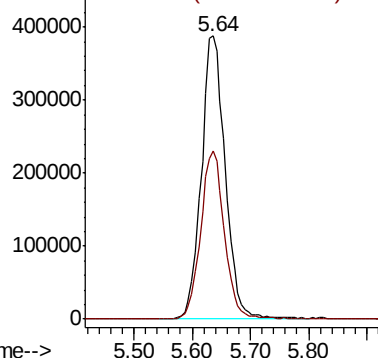
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. 0.01 min
 Lab File: VX015434.D
 Acq: 30 Mar 2020 17:35

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:168 Resp: 1104058
 Ion Ratio Lower Upper
 168 100
 99 59.3 46.4 69.6



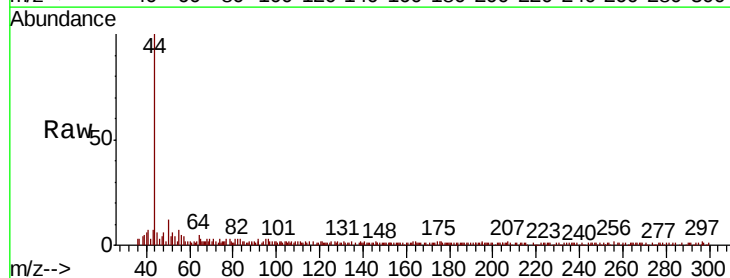
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



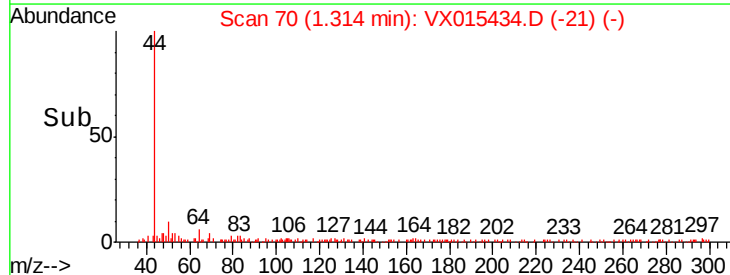
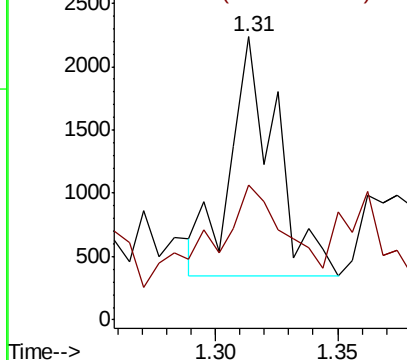
#3

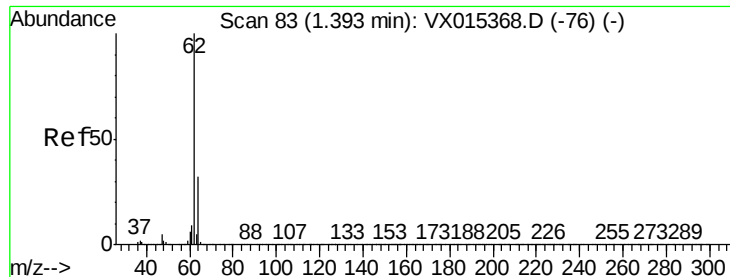
Chloromethane
 Concen: 0.201 ug/l
 RT: 1.31 min Scan# 70
 Delta R.T. -0.00 min
 Lab File: VX015434.D
 Acq: 30 Mar 2020 17:35

Tgt Ion: 50 Resp: 2491
 Ion Ratio Lower Upper
 50 100
 52 31.1 25.3 37.9



Abundance Ion 49.90 (49.60 to 50.60): VX0
 Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 6.542 ug/l

RT: 1.39 min Scan# 83

Delta R.T. -0.00 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

Instrument :

MSVOA_X

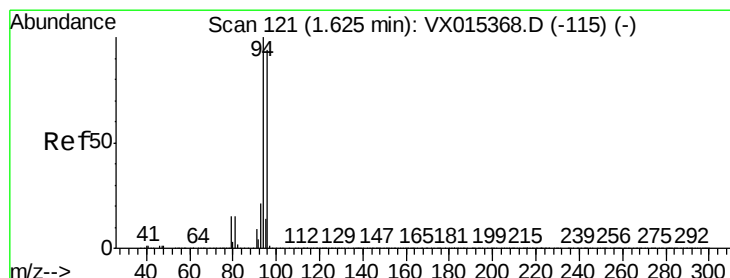
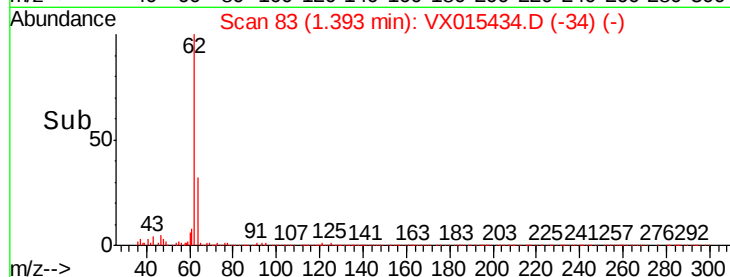
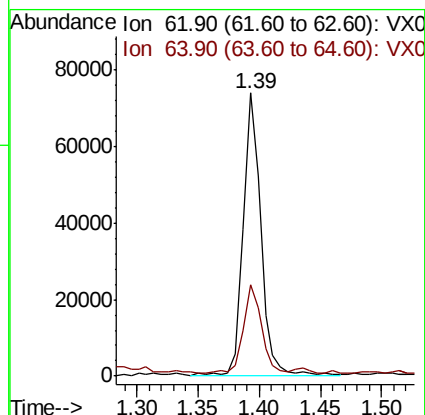
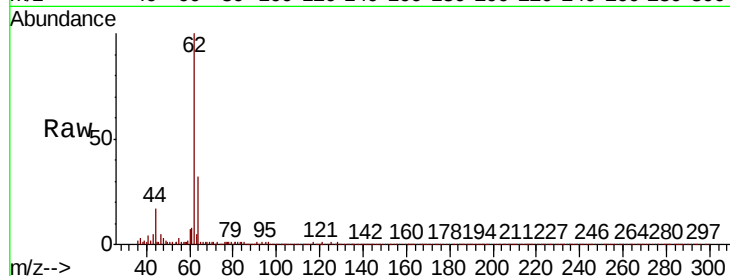
ClientSampled :

Tot Ion: 62 Resp: 74414

Ion Ratio Lower Upper

62 100

64 31.4 26.0 39.0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX015434.D

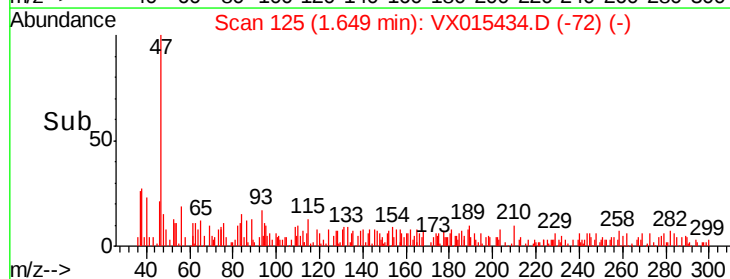
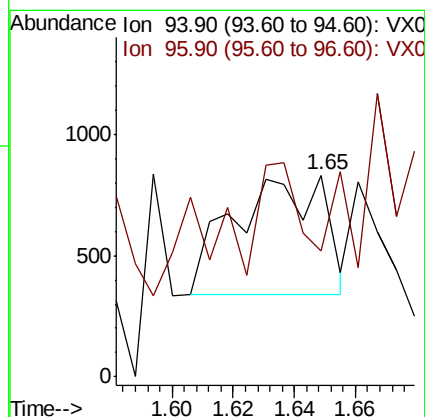
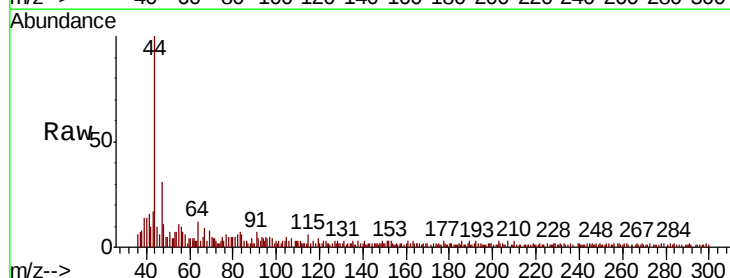
Acq: 30 Mar 2020 17:35

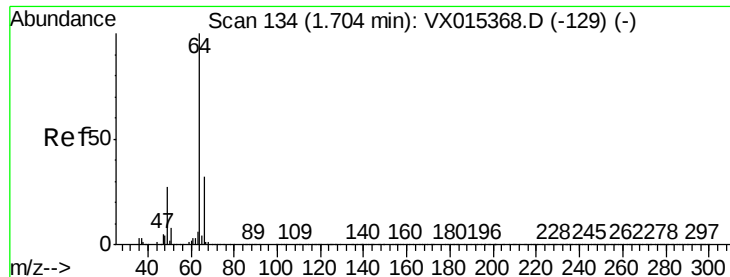
Tgt Ion: 94 Resp: 991

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#





#6

Chloroethane

Concen: 0.371 ug/l

RT: 1.72 min Scan# 136

Delta R.T. 0.01 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

Instrument :

MSVOA_X

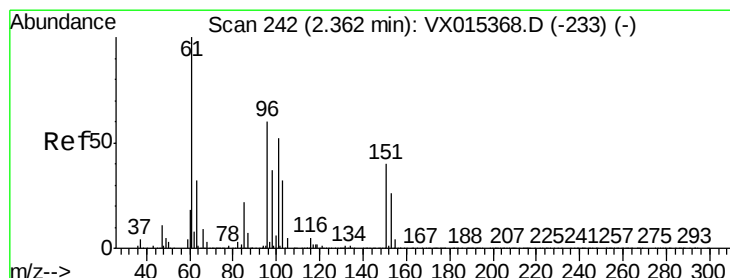
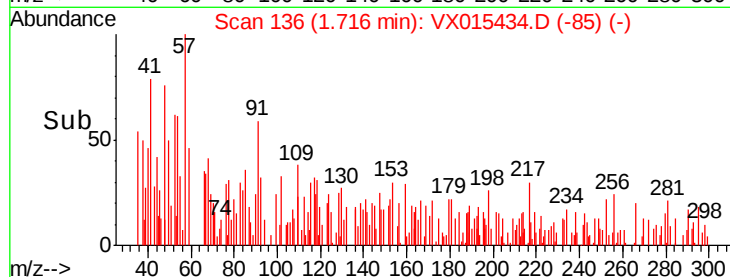
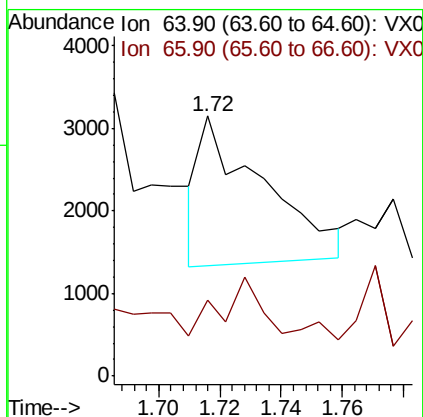
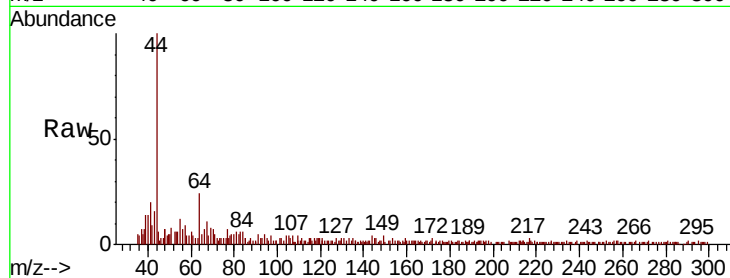
ClientSampleId :

Tot Ion: 64 Resp: 2617

Ion Ratio Lower Upper

64 100

66 35.9 25.4 38.2



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.246 ug/l

RT: 2.35 min Scan# 240

Delta R.T. -0.01 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

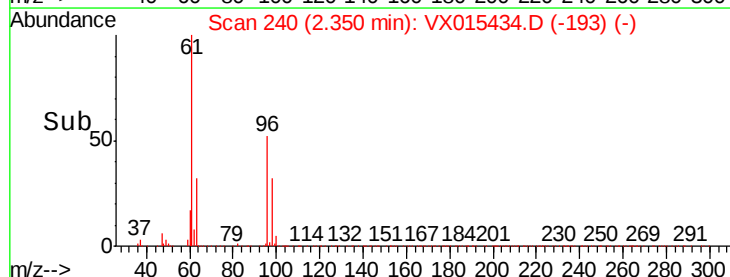
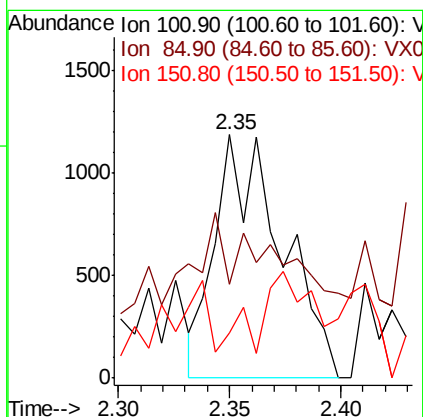
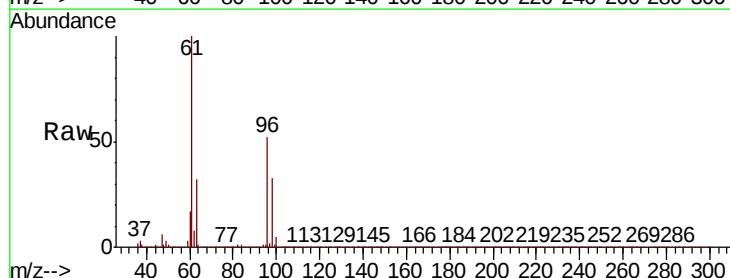
Tgt Ion: 101 Resp: 2451

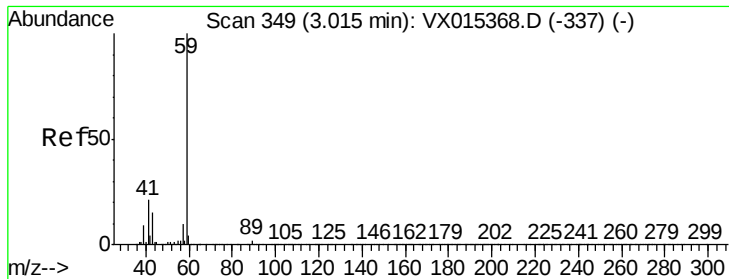
Ion Ratio Lower Upper

101 100

85 0.0 35.0 52.4#

151 12.8 64.1 96.1#

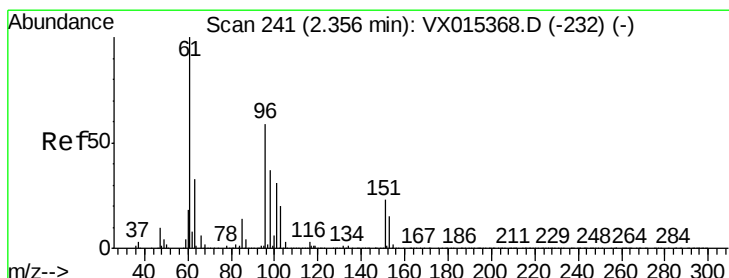
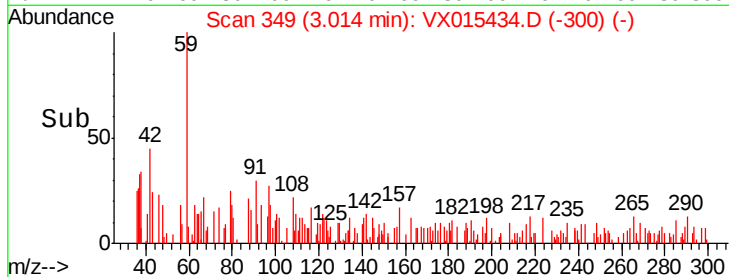
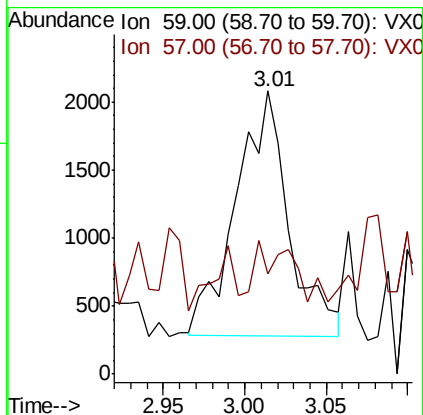
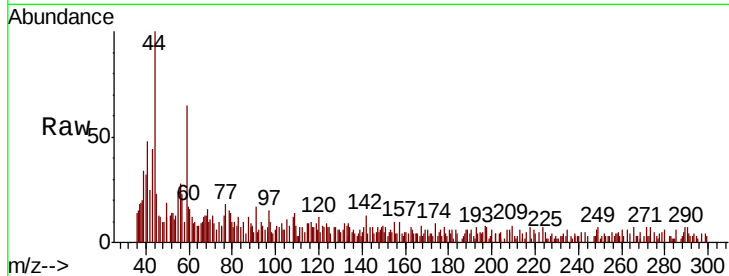




#11
Tert butyl alcohol
Concen: 1.091 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.00 min
Lab File: VX015434.D
Acq: 30 Mar 2020 17:35

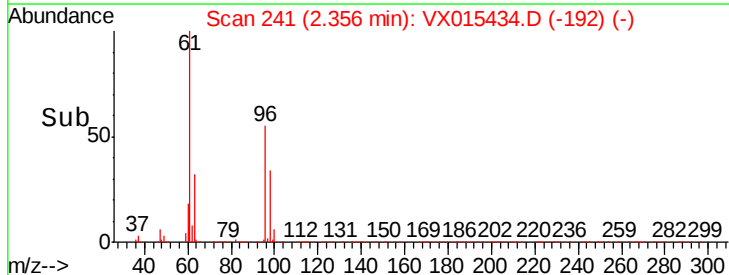
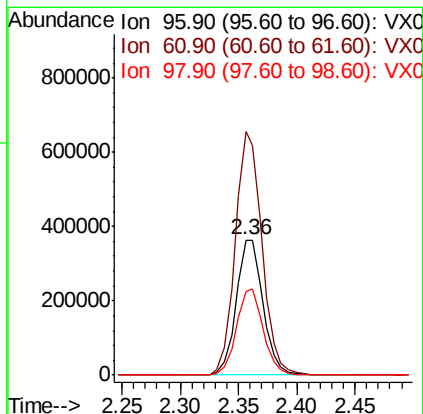
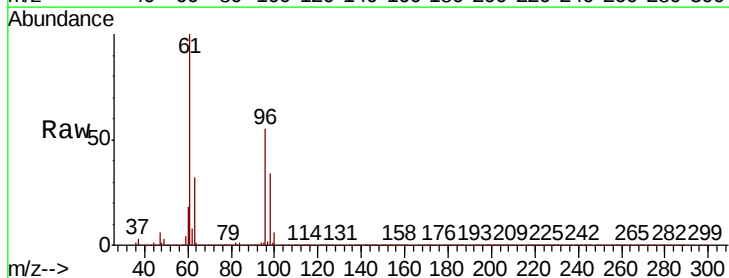
Instrument :
MSVOA_X
ClientSampled :

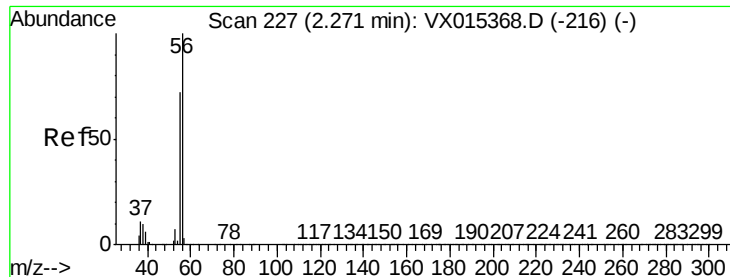
Tot Ion: 59 Resp: 4067
Ion Ratio Lower Upper
59 100
57 17.1 8.1 12.1#



#12
1,1-Dichloroethene
Concen: 55.764 ug/l
RT: 2.36 min Scan# 241
Delta R.T. -0.00 min
Lab File: VX015434.D
Acq: 30 Mar 2020 17:35

Tgt Ion: 96 Resp: 581258
Ion Ratio Lower Upper
96 100
61 180.6 135.7 203.5
98 61.8 50.6 75.8

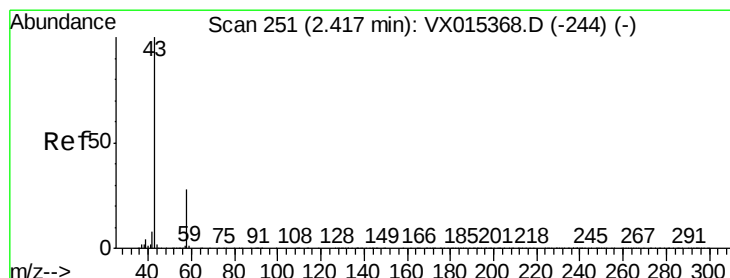
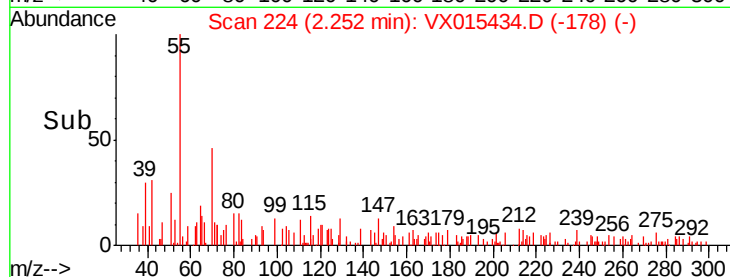
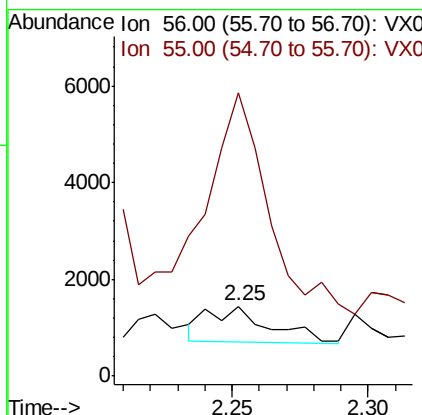
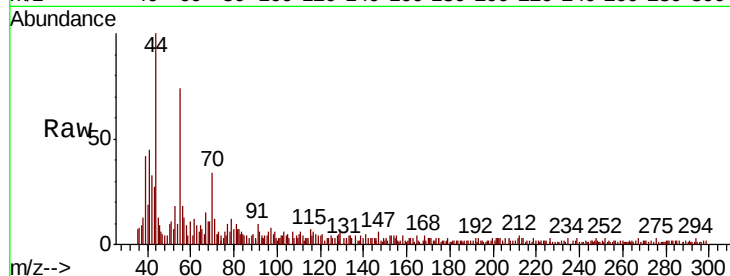




#13
Acrolein
Concen: 0.543 ug/l
RT: 2.25 min Scan# 224
Delta R.T. -0.02 min
Lab File: VX015434.D
Acq: 30 Mar 2020 17:35

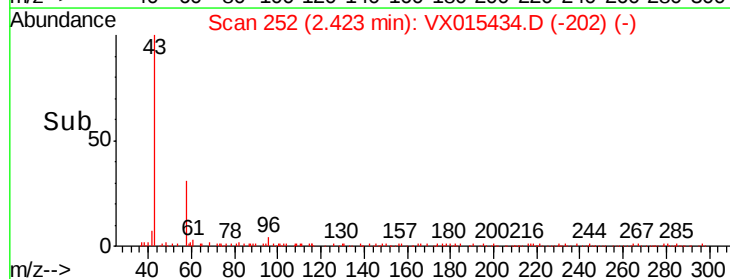
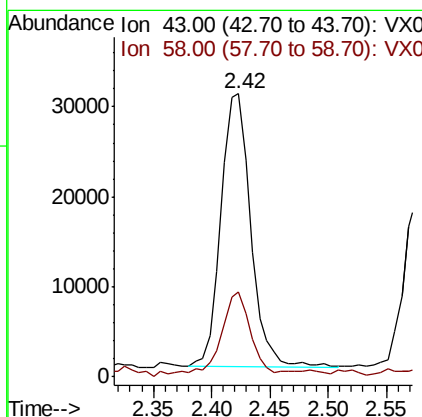
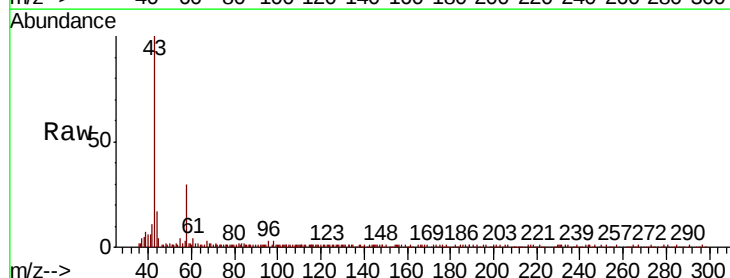
Instrument :
MSVOA_X
ClientSampleId :

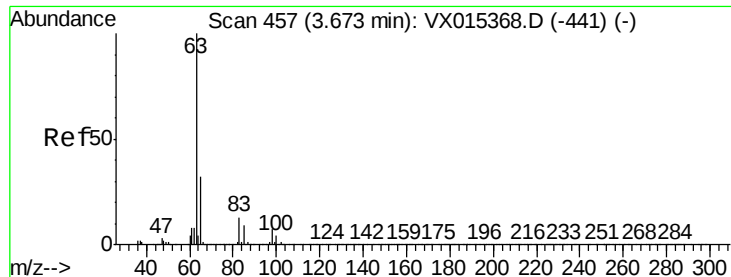
Tot Ion: 56 Resp: 1152
Ion Ratio Lower Upper
56 100
55 633.1 57.0 85.4#



#16
Acetone
Concen: 8.029 ug/l
RT: 2.42 min Scan# 252
Delta R.T. 0.01 min
Lab File: VX015434.D
Acq: 30 Mar 2020 17:35

Tgt Ion: 43 Resp: 53711
Ion Ratio Lower Upper
43 100
58 29.9 22.1 33.1





#24

1,1-Dichloroethane

Concen: 20.373 ug/l

RT: 3.67 min Scan# 457

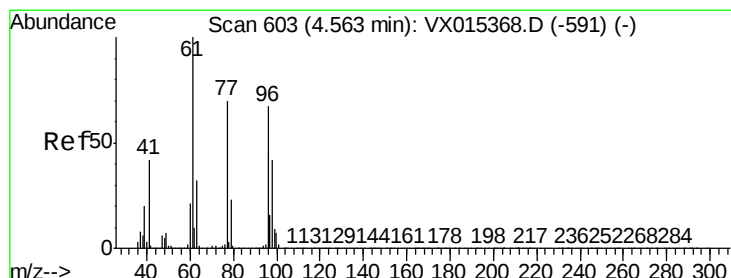
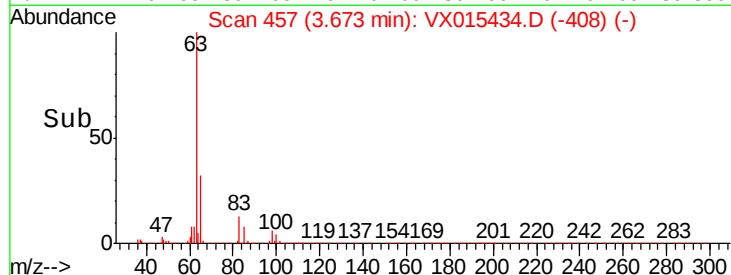
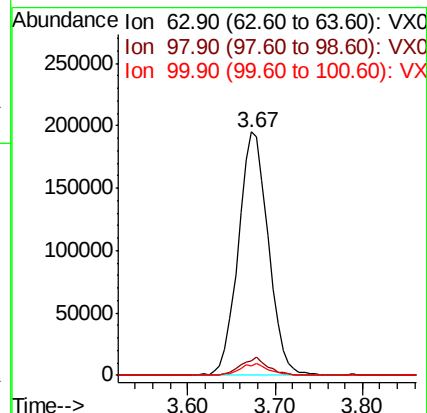
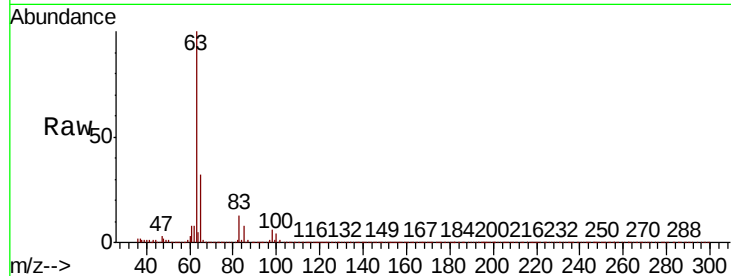
Delta R.T. -0.00 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	63	Resp:	462926
Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.3	9.8
100	3.9	2.1	6.5



#27

cis-1,2-Dichloroethene

Concen: 8.464 ug/l

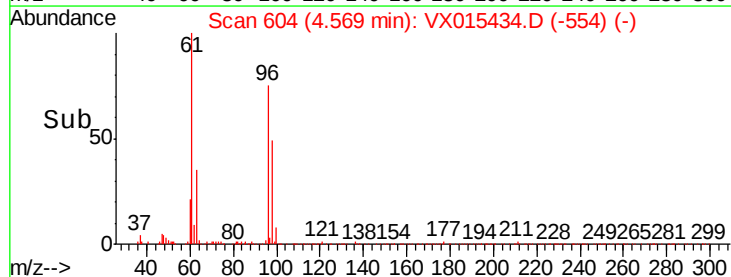
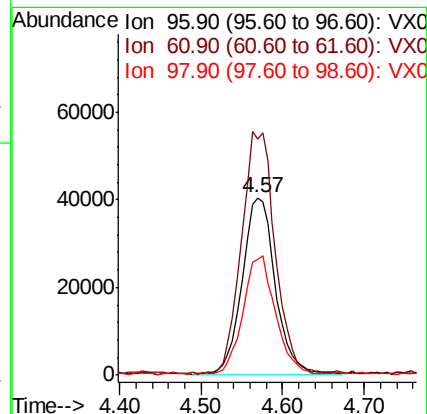
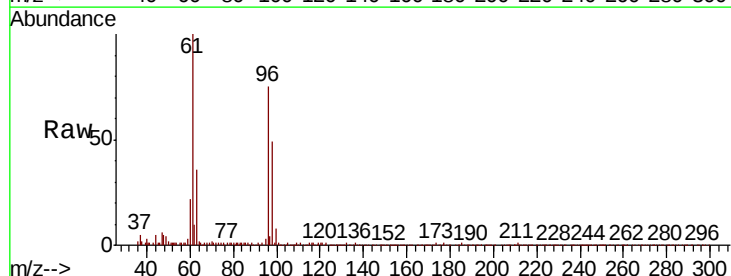
RT: 4.57 min Scan# 604

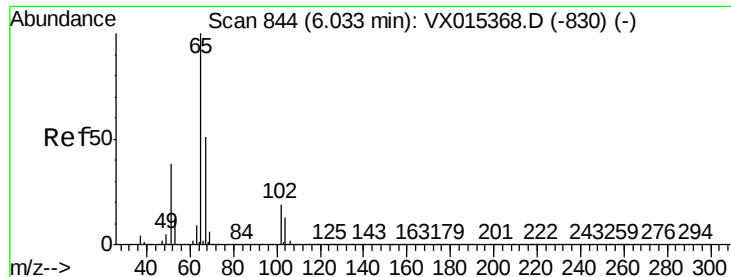
Delta R.T. 0.01 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

Tgt Ion:	96	Resp:	113280
Ion	Ratio	Lower	Upper
96	100		
61	138.5	0.0	308.4
98	64.1	0.0	129.2





#33

1,2-Dichloroethane-d4

Concen: 49.156 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

Instrument :

MSVOA_X

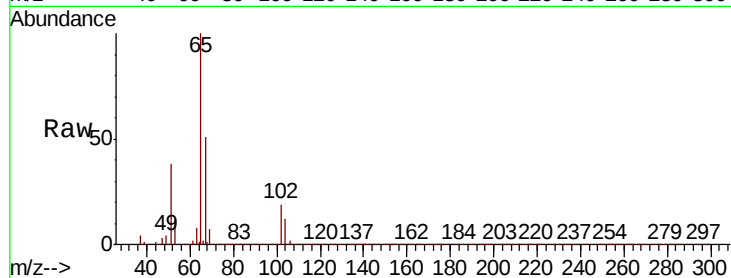
ClientSampleId :

Tot Ion: 65 Resp: 765427

Ion Ratio Lower Upper

65 100

67 50.6 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

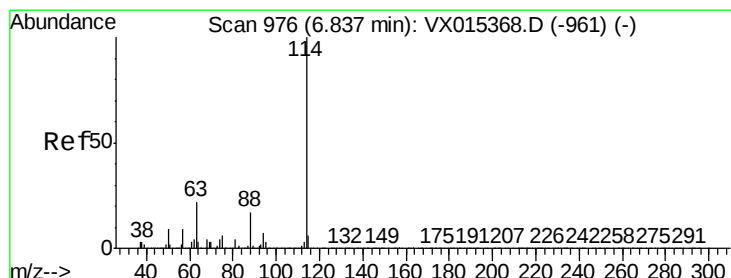
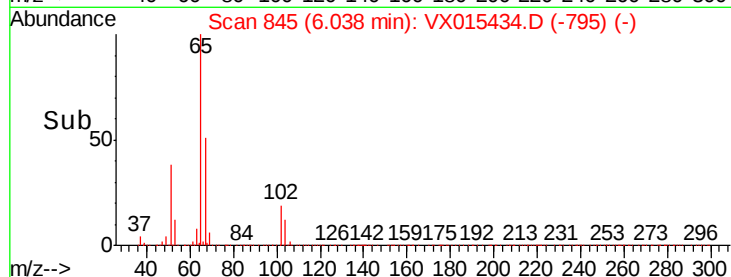
200000

100000

0

5.90 6.00 6.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

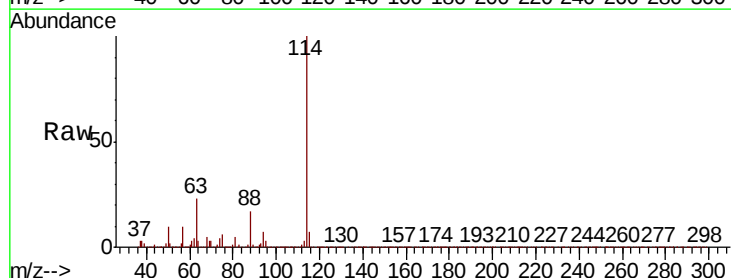
Tgt Ion: 114 Resp: 1822696

Ion Ratio Lower Upper

114 100

63 23.0 0.0 44.2

88 16.5 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

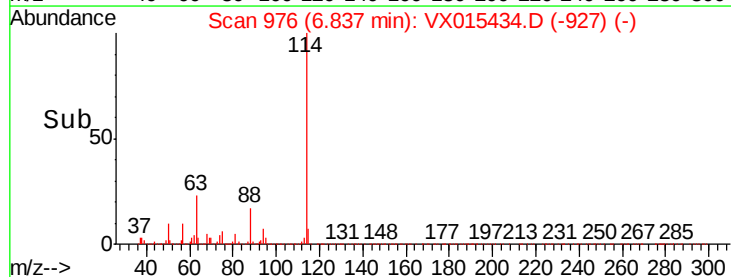
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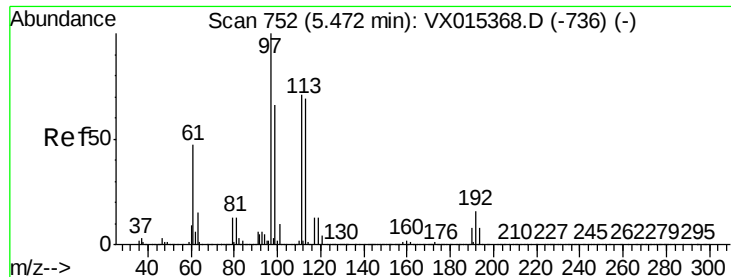
200000

0

6.70 6.80 6.90 7.00

Time-->

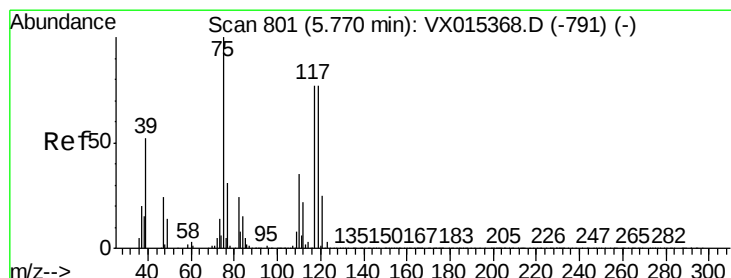
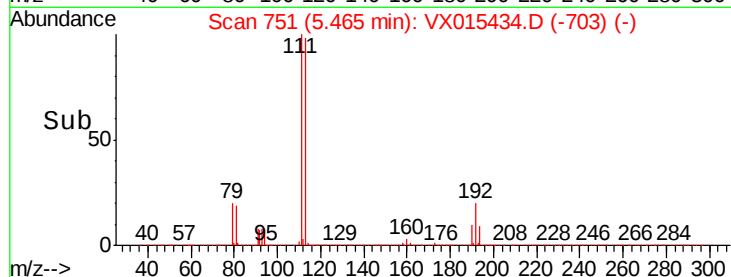
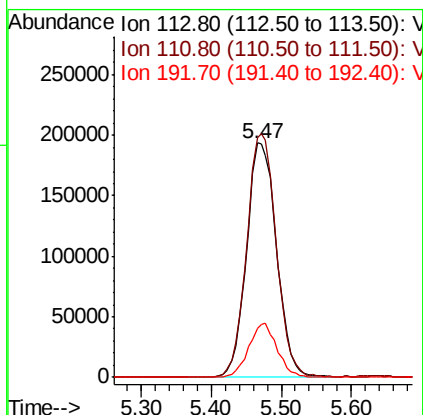
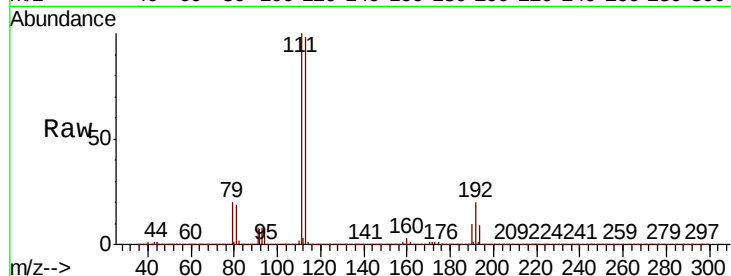




#35
 Dibromofluoromethane
 Concen: 49.409 ug/l
 RT: 5.47 min Scan# 751
 Delta R.T. -0.01 min
 Lab File: VX015434.D
 Acq: 30 Mar 2020 17:35

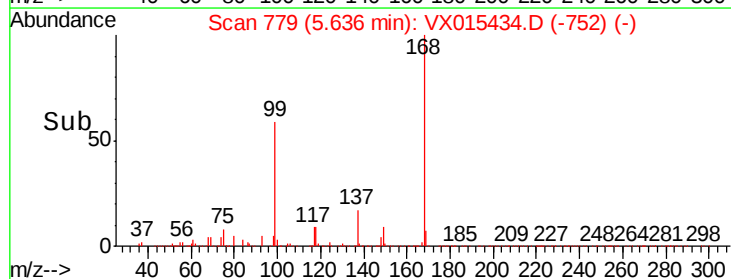
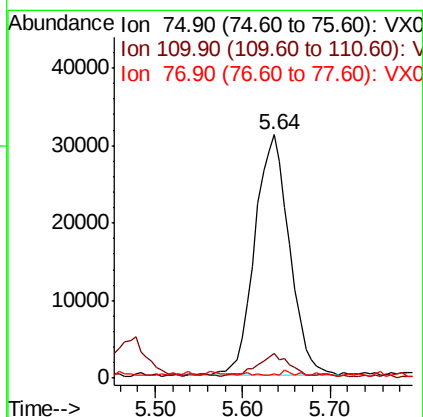
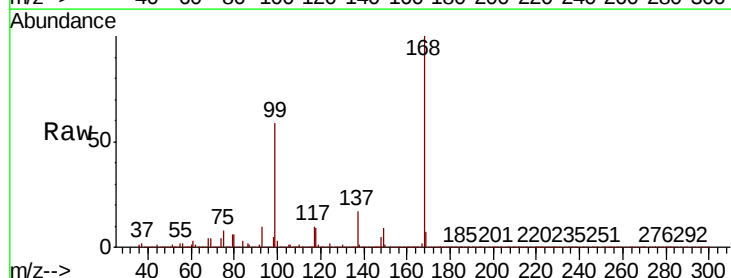
Instrument :
 MSVOA_X
 ClientSampled :

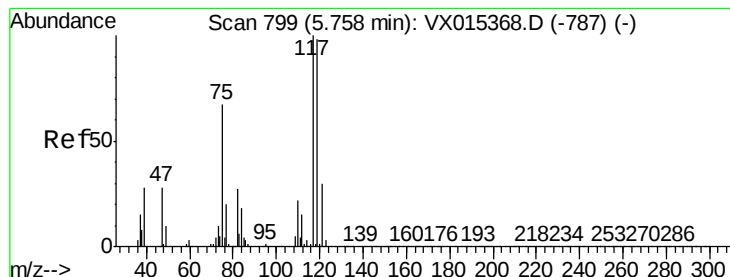
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.5	122.3
192	21.5	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 5.151 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015434.D
 Acq: 30 Mar 2020 17:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.1	51.3#
77	0.8	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.125 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.12 min

Lab File: VX015434.D

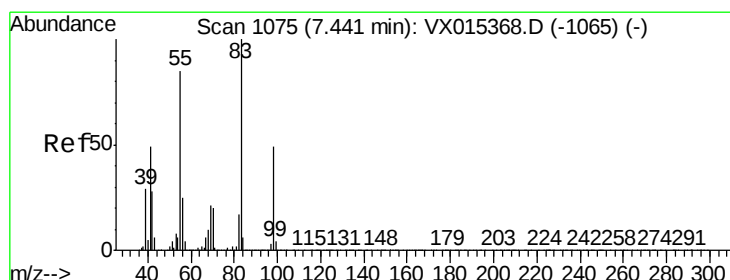
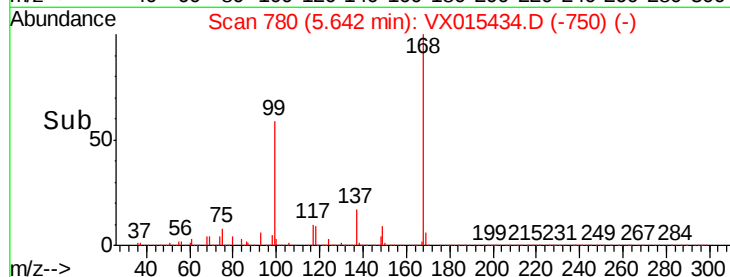
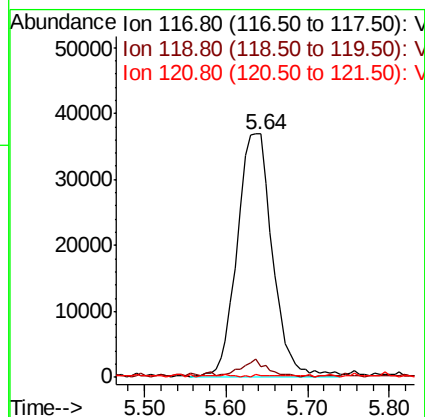
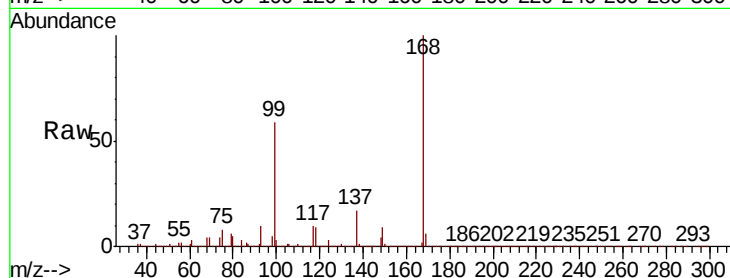
Acq: 30 Mar 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	117	Resp:	111411
Ion	Ratio	Lower	Upper
117	100		
119	4.0	78.0	117.0#
121	0.3	23.8	35.8#



#39

Methylcyclohexane

Concen: 0.353 ug/l

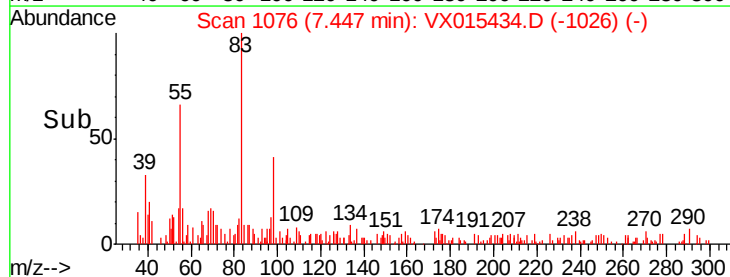
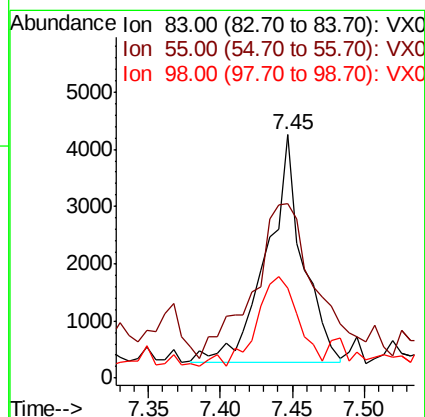
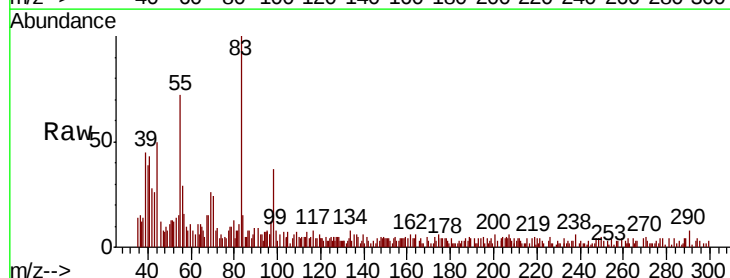
RT: 7.45 min Scan# 1076

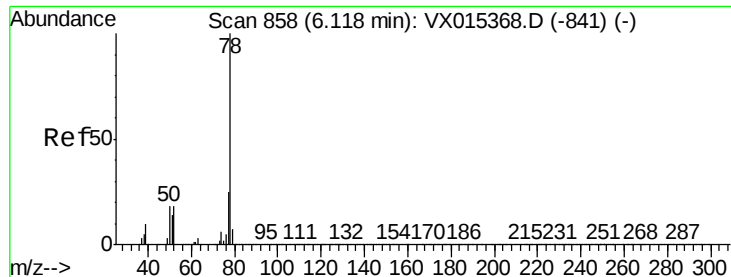
Delta R.T. 0.01 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

Tgt Ion:	83	Resp:	6842
Ion	Ratio	Lower	Upper
83	100		
55	53.2	67.8	101.6#
98	33.7	39.3	58.9#





#40

Benzene

Concen: 0.559 ug/l

RT: 6.12 min Scan# 858

Delta R.T. -0.00 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

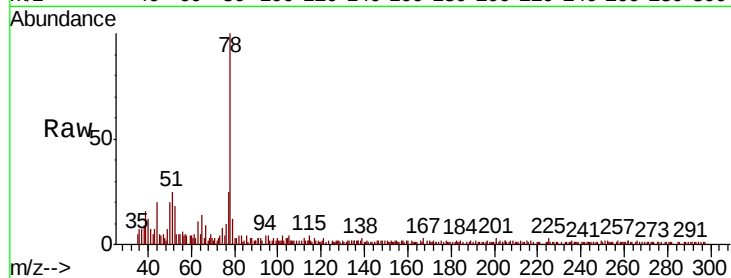
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 78 Resp: 27523

Ion Ratio Lower Upper

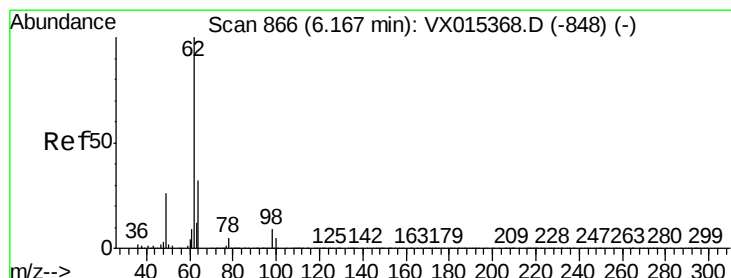
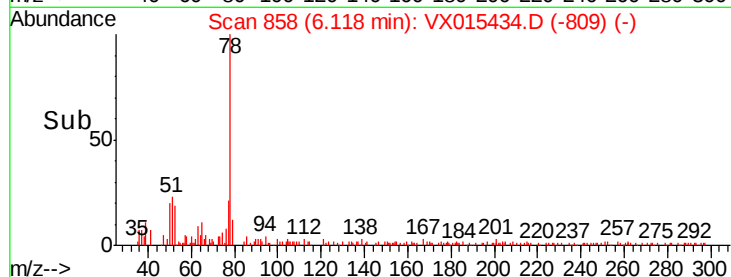
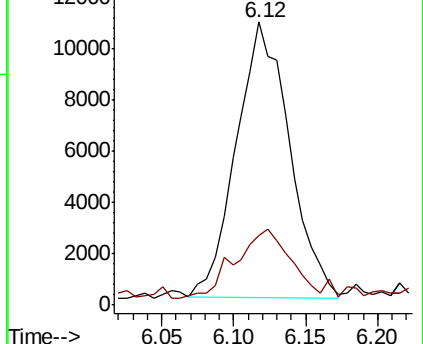
78 100

77 22.2 19.8 29.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#42

1,2-Dichloroethane

Concen: 2.940 ug/l

RT: 6.17 min Scan# 867

Delta R.T. 0.01 min

Lab File: VX015434.D

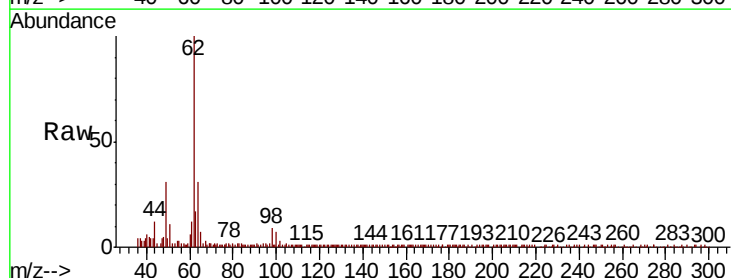
Acq: 30 Mar 2020 17:35

Tgt Ion: 62 Resp: 58105

Ion Ratio Lower Upper

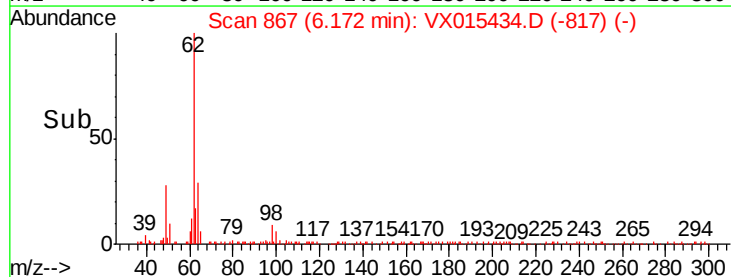
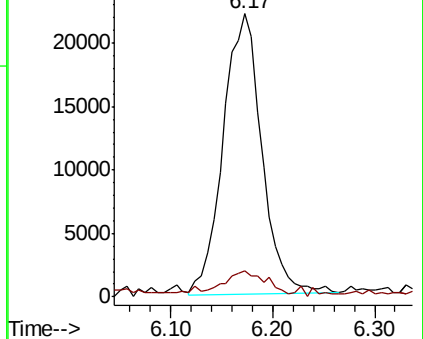
62 100

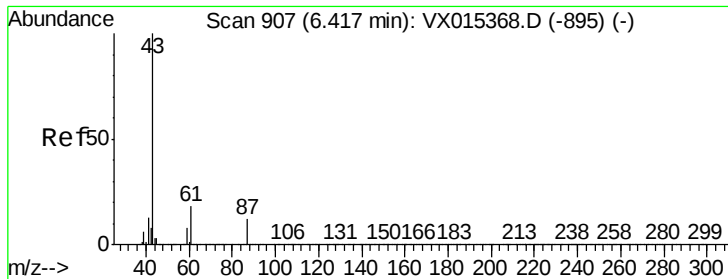
98 8.1 0.0 17.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



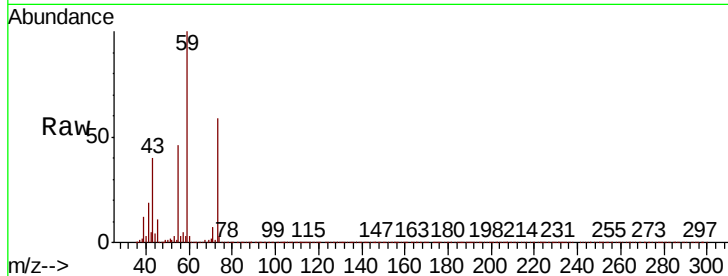


#43

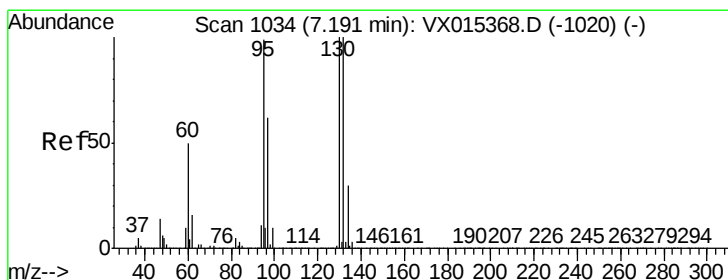
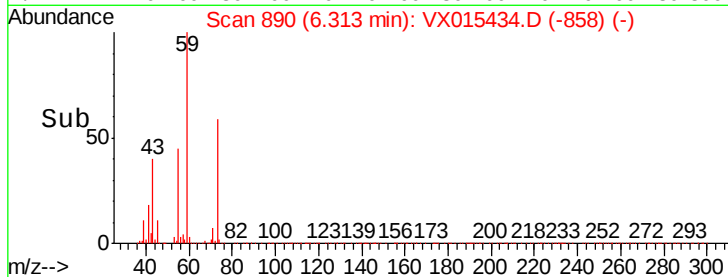
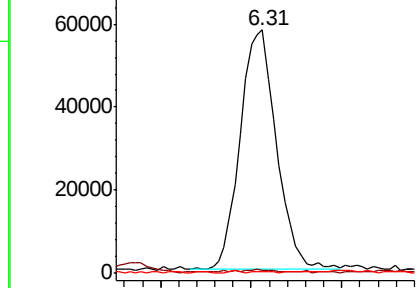
Isopropyl Acetate
 Concen: 4.329 ug/l
 RT: 6.31 min Scan# 890
 Delta R.T. -0.10 min
 Lab File: VX015434.D
 Acq: 30 Mar 2020 17:35

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
61	1.1	14.8	22.2#
87	0.3	9.4	14.0#



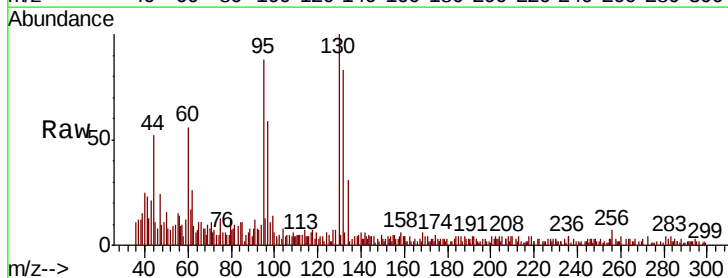
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



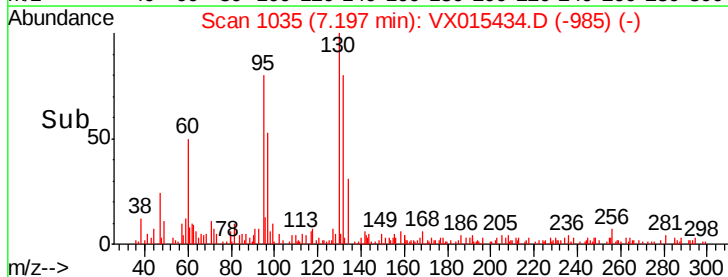
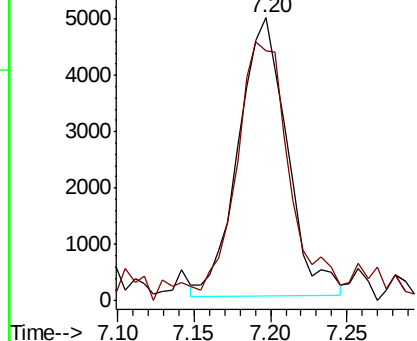
#44

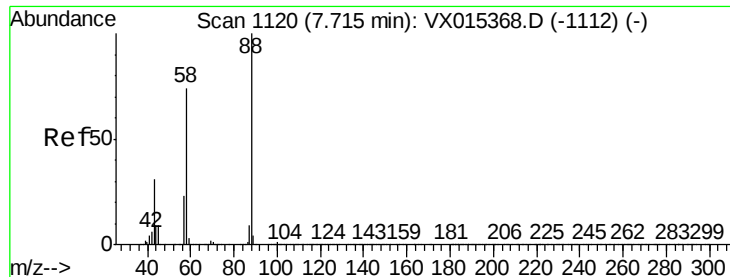
Trichloroethene
 Concen: 0.815 ug/l
 RT: 7.20 min Scan# 1035
 Delta R.T. 0.01 min
 Lab File: VX015434.D
 Acq: 30 Mar 2020 17:35

Tgt Ion	Ratio	Lower	Upper
130	100		
95	88.0	0.0	199.0



Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 721.459 ug/l

RT: 7.71 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

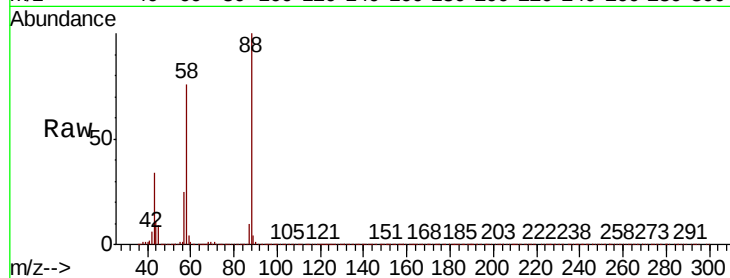
Tot Ion: 88 Resp: 248155

Ion Ratio Lower Upper

88 100

43 33.3 30.1 45.1

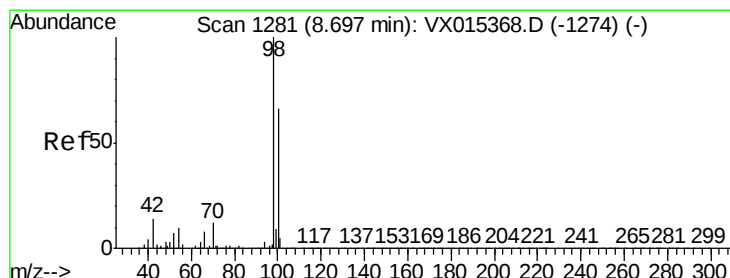
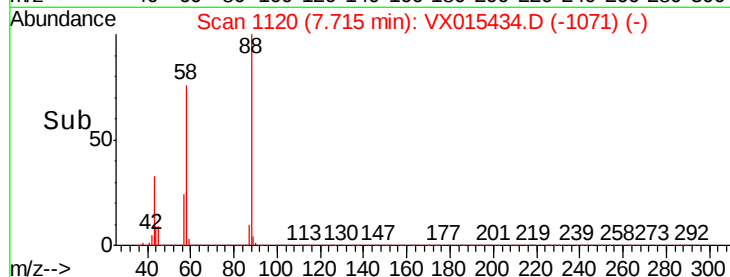
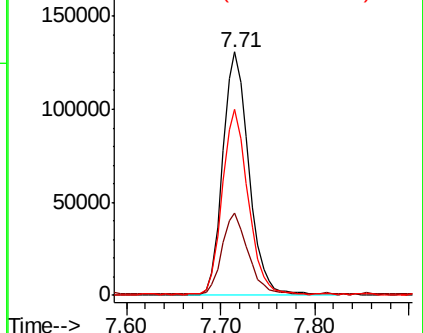
58 75.6 60.6 90.8



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: 52.118 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015434.D

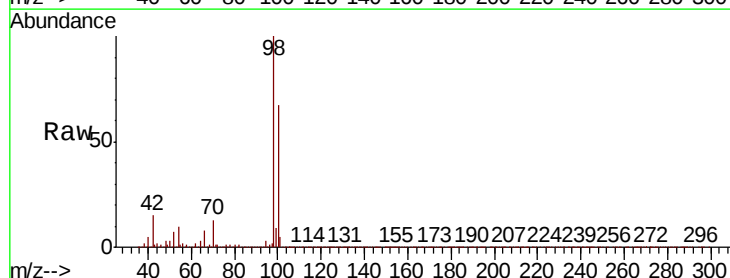
Acq: 30 Mar 2020 17:35

Tgt Ion: 98 Resp: 2235693

Ion Ratio Lower Upper

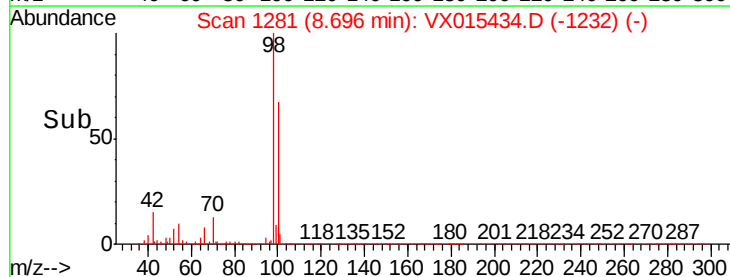
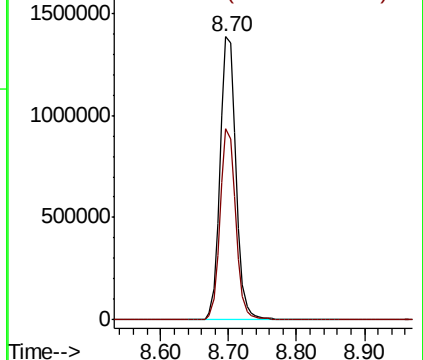
98 100

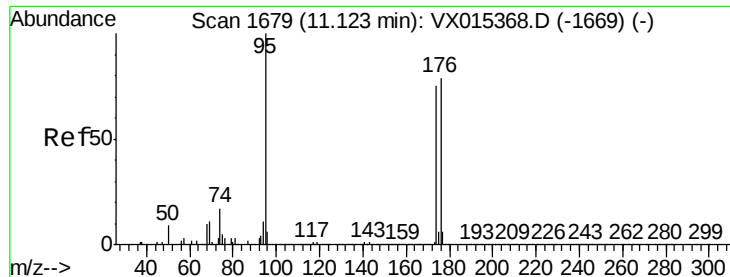
100 66.3 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 55.579 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

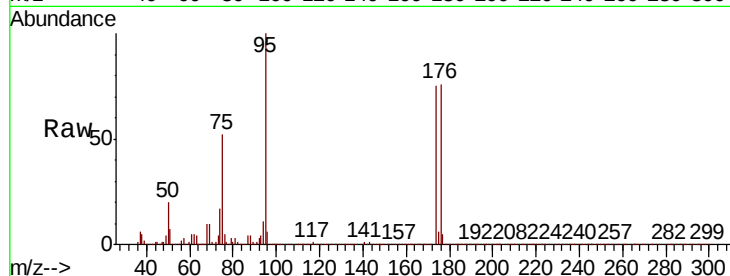
Tot Ion: 95 Resp: 968921

Ion Ratio Lower Upper

95 100

174 76.8 0.0 158.6

176 75.2 0.0 159.0

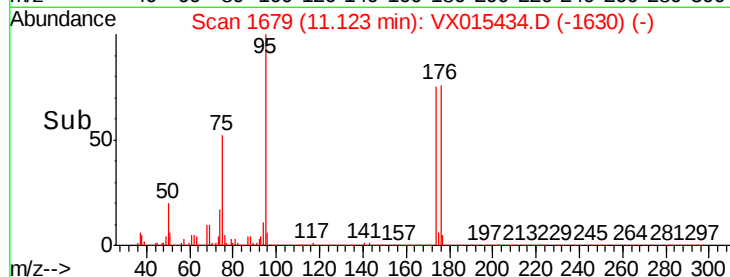


Abundance Ion 94.90 (94.60 to 95.60): VX015434.D (-1669) (-)

Ion 173.80 (173.50 to 174.50): VX015434.D (-1669) (-)

Ion 175.80 (175.50 to 176.50): VX015434.D (-1669) (-)

Time-->



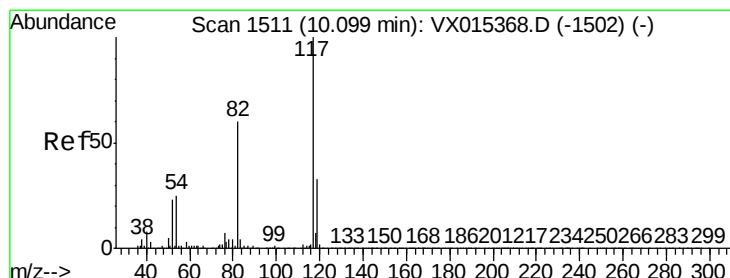
Abundance

Ion 94.90 (94.60 to 95.60): VX015434.D (-1669) (-)

Ion 173.80 (173.50 to 174.50): VX015434.D (-1669) (-)

Ion 175.80 (175.50 to 176.50): VX015434.D (-1669) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

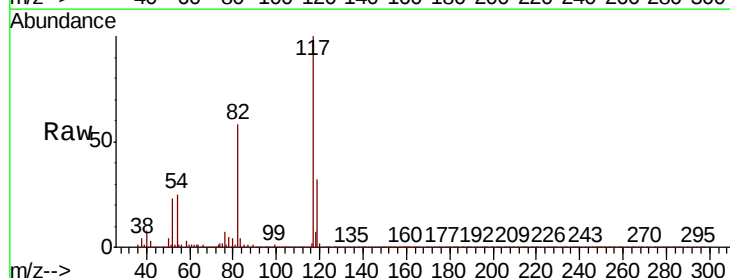
Tgt Ion: 117 Resp: 1737422

Ion Ratio Lower Upper

117 100

82 58.3 47.8 71.8

119 32.5 26.8 40.2

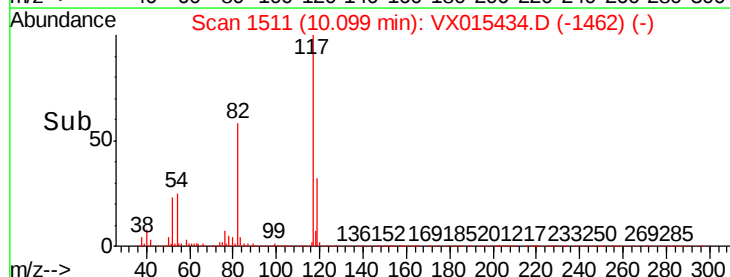


Abundance Ion 116.90 (116.60 to 117.60): VX015434.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015434.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015434.D (-1462) (-)

Time-->



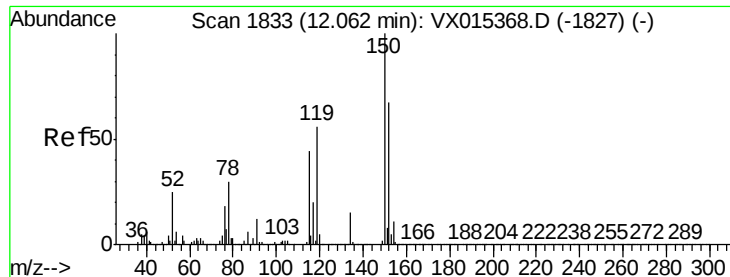
Abundance

Ion 116.90 (116.60 to 117.60): VX015434.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX015434.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX015434.D (-1462) (-)

Time-->

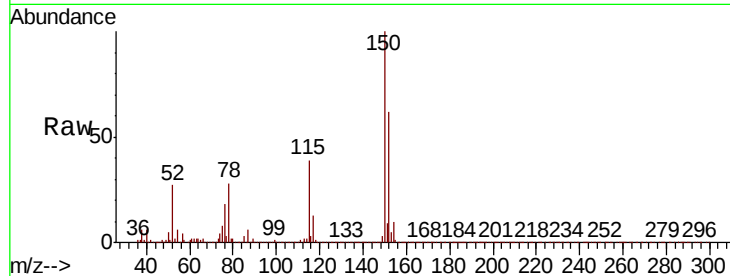


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VX015434.D
Acq: 30 Mar 2020 17:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.9	39.0	116.9
150	156.7	0.0	340.8

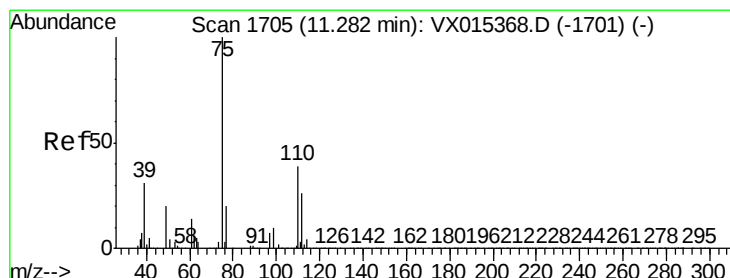
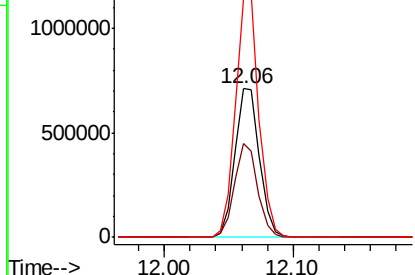
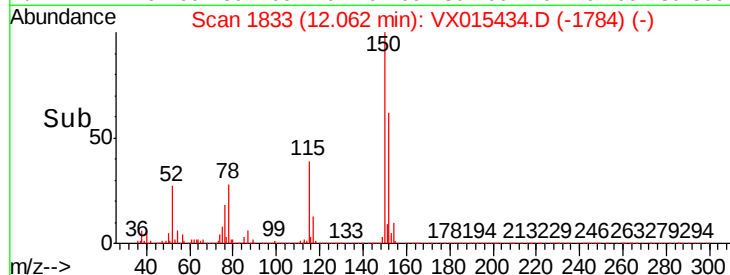


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

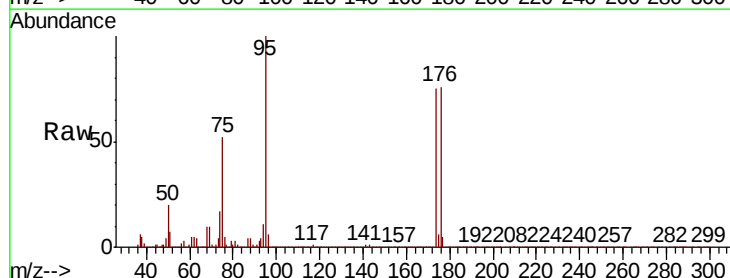
Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane
Concen: 25.931 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. -0.16 min
Lab File: VX015434.D
Acq: 30 Mar 2020 17:35

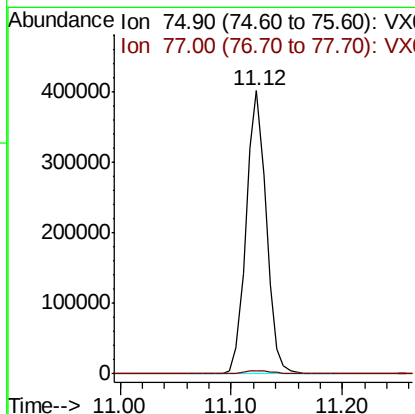
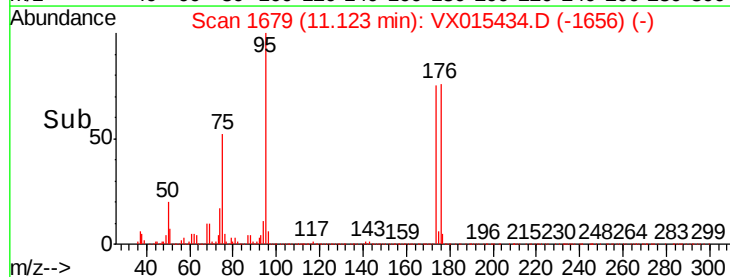
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	21.2	63.6

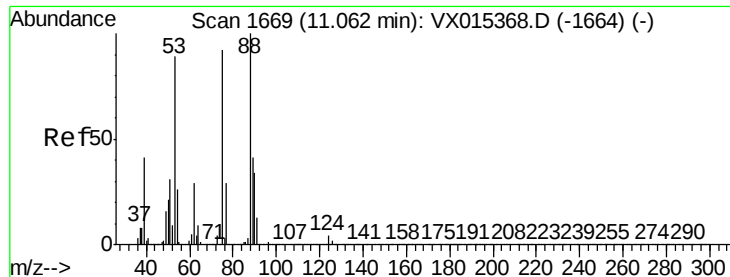


Abundance

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: 62.219 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

Instrument :

MSVOA_X

ClientSampleId :

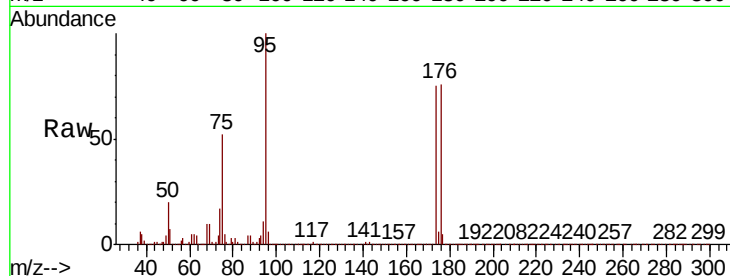
Tot Ion: 75 Resp: 500253

Ion Ratio Lower Upper

75 100

53 1.2 80.1 120.1#

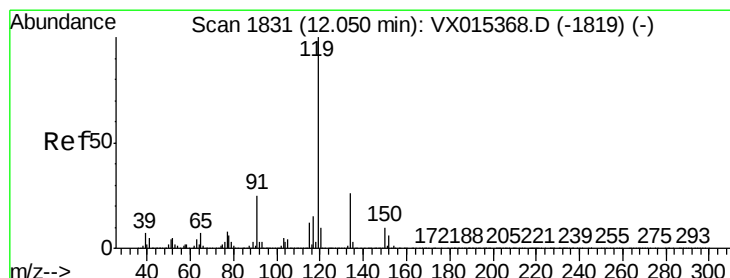
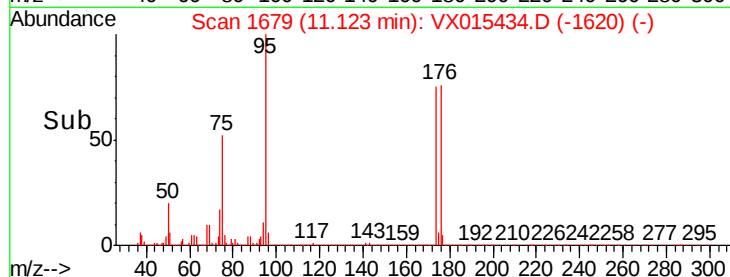
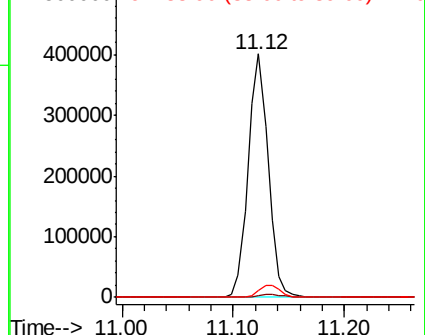
89 5.2 36.1 54.1#



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: 0.218 ug/l

RT: 12.22 min Scan# 1859

Delta R.T. 0.17 min

Lab File: VX015434.D

Acq: 30 Mar 2020 17:35

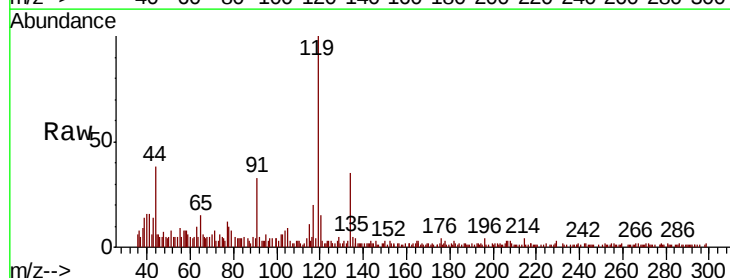
Tgt Ion: 119 Resp: 11995

Ion Ratio Lower Upper

119 100

134 30.3 13.1 39.3

91 27.0 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

