

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050820\
 Data File : VN061364.D
 Acq On : 8 May 2020 16:09
 Operator : JC/MD
 Sample : PB128729TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 09 00:39:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:01:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	97374	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	181849	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	179944	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	77076	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	83438	54.15	ug/l	0.00
Spiked Amount			Recovery	=	108.30%	
35) Dibromofluoromethane	7.55	113	47456	44.13	ug/l	0.00
Spiked Amount			Recovery	=	88.26%	
50) Toluene-d8	10.06	98	231595	52.83	ug/l	0.00
Spiked Amount			Recovery	=	105.66%	
62) 4-Bromofluorobenzene	12.38	95	87062	52.78	ug/l	0.00
Spiked Amount			Recovery	=	105.56%	

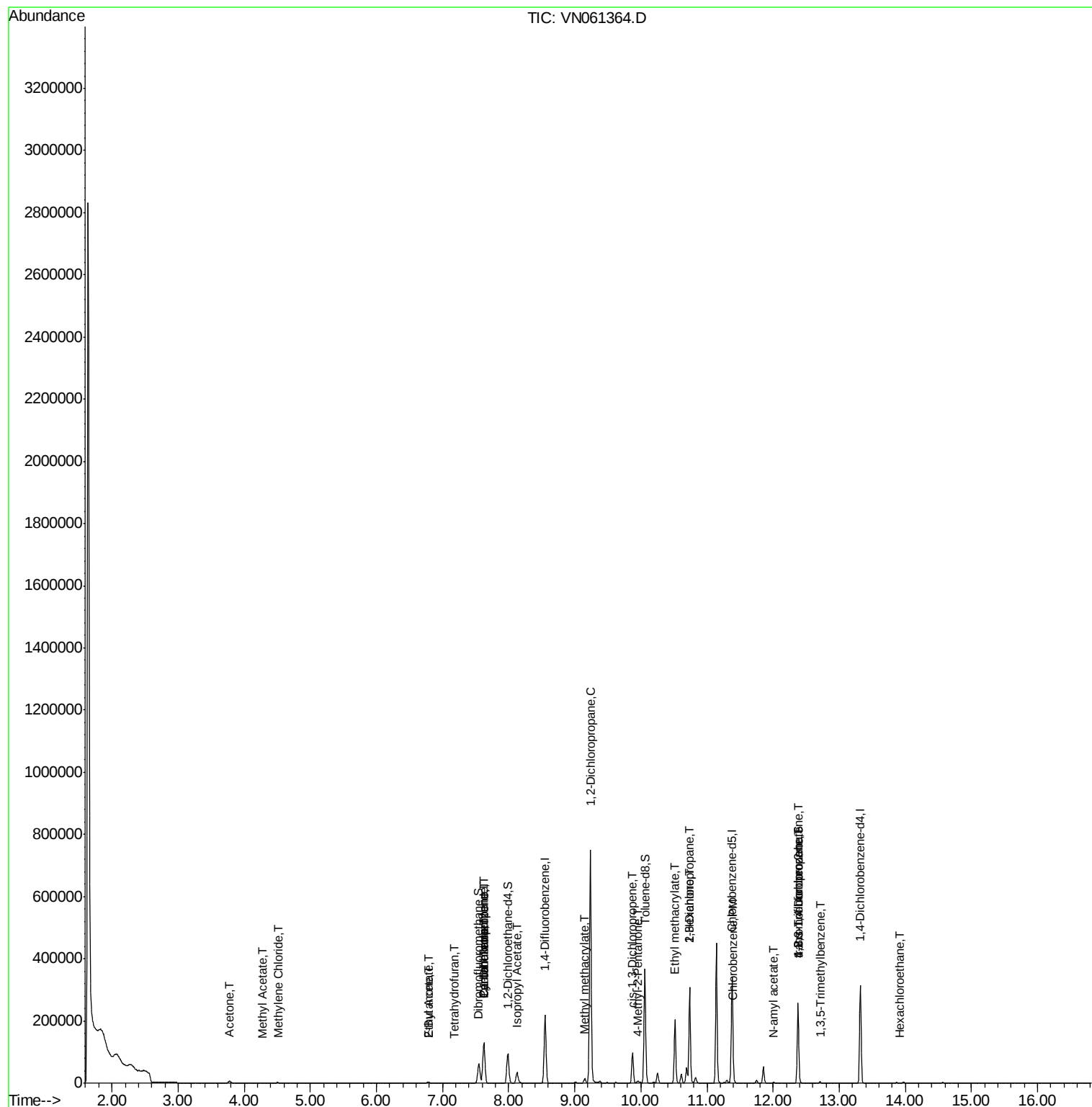
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	11149	13.483	ug/l	99
18) Methyl Acetate	4.27	43	648	1.008	ug/l #	55
20) Methylene Chloride	4.50	84	1074	0.894	ug/l	87
25) 2-Butanone	6.80	43	2340	2.567	ug/l	94
29) Tetrahydrofuran	7.17	42	531	0.865	ug/l #	37
31) Cyclohexane	7.63	56	2546	1.136	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	9027	4.959	ug/l #	51
37) Ethyl Acetate	6.80	43	2340	1.096	ug/l #	71
38) Carbon Tetrachloride	7.63	117	10795	8.489	ug/l #	16
43) Isopropyl Acetate	8.13	43	43174	12.190	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	682	0.471	ug/l #	44
48) Methyl methacrylate	9.15	41	2203	1.378	ug/l #	16
51) 4-Methyl-2-Pentanone	9.95	43	4841	2.322	ug/l	99
54) cis-1,3-Dichloropropene	9.88	75	16535	7.208	ug/l #	62
56) Ethyl methacrylate	10.51	69	628	2.989	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	2773	1.211	ug/l #	43
59) 2-Hexanone	10.74	43	47373	31.234	ug/l #	53
65) Chlorobenzene	11.41	112	983	0.275	ug/l	96
74) N-amyl acetate	12.00	43	1464	0.510	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	48944	30.120	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3179	0.678	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	48944	76.489	ug/l #	8
90) Hexachloroethane	13.92	117	551	8.548	ug/l #	14

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

Instrument :

MSVOA_N

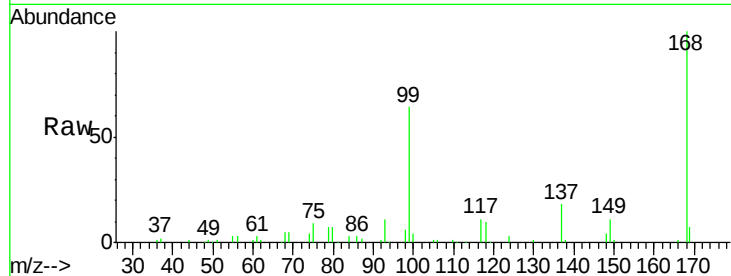
ClientSampled :

Tot Ion:168 Resp: 97374

Ion Ratio Lower Upper

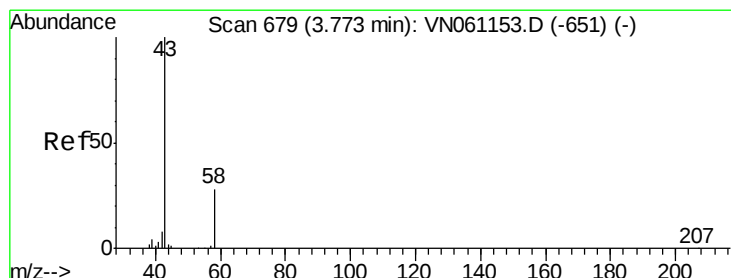
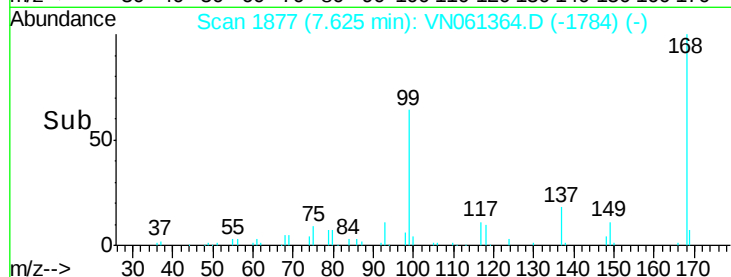
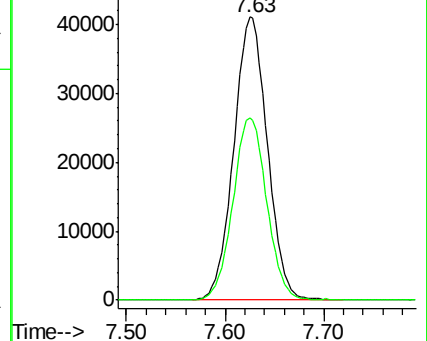
168 100

99 64.5 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 13.483 ug/l

RT: 3.78 min Scan# 680

Delta R.T. 0.00 min

Lab File: VN061364.D

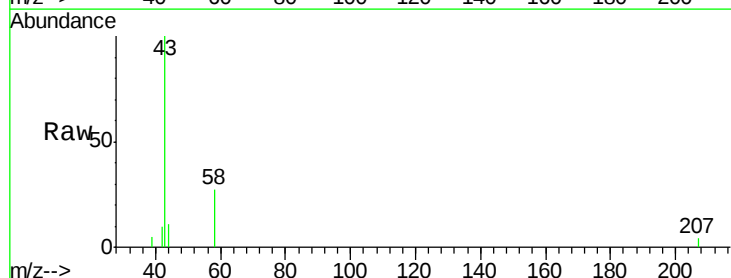
Acq: 8 May 2020 16:09

Tgt Ion: 43 Resp: 11149

Ion Ratio Lower Upper

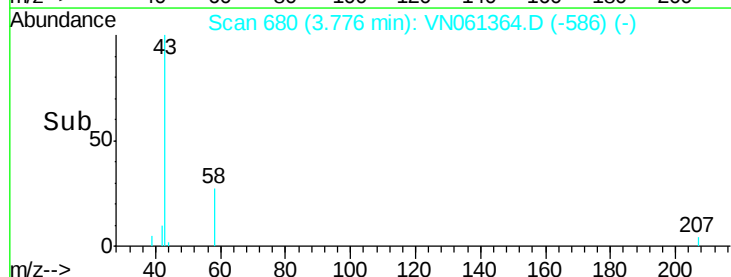
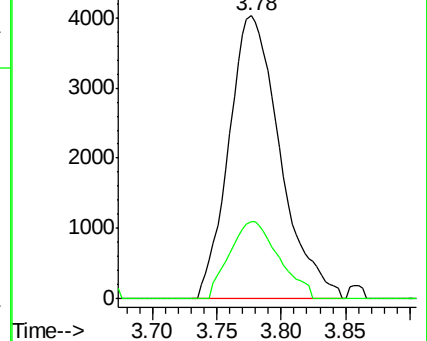
43 100

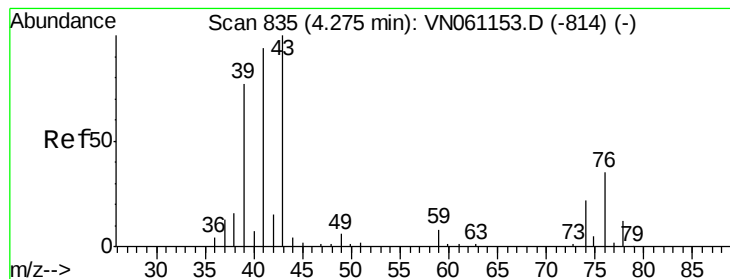
58 27.3 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#18

Methvl Acetate

Concen: 1.008 ug/l

RT: 4.27 min Scan# 834

Delta R.T. -0.00 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

Instrument :

MSVOA_N

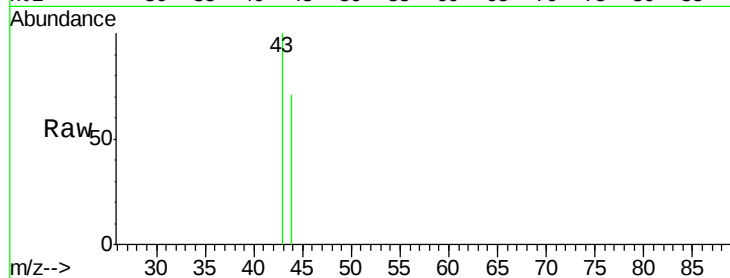
ClientSampleId :

Tot Ion: 43 Resp: 648

Ion Ratio Lower Upper

43 100

74 0.0 17.0 25.4#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

4.27

4.28

4.29

4.30

4.31

4.32

4.33

4.34

4.35

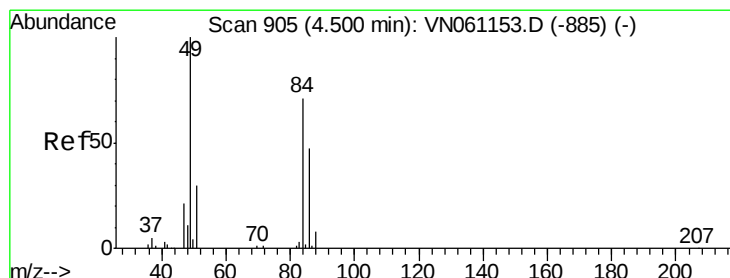
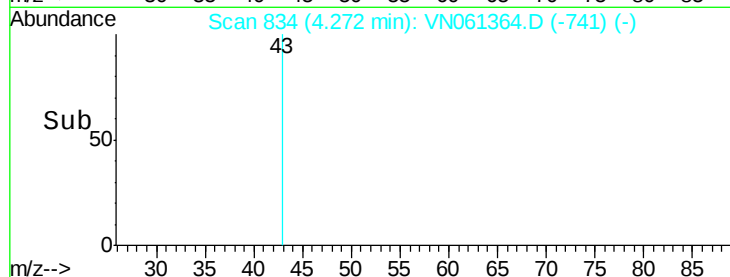
4.36

4.37

4.38

4.40

Time-->



#20

Methylene Chloride

Concen: 0.894 ug/l

RT: 4.50 min Scan# 905

Delta R.T. 0.00 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

Tgt Ion: 84 Resp: 1074

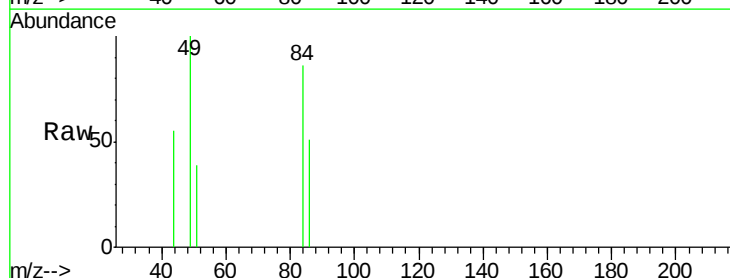
Ion Ratio Lower Upper

84 100

49 116.9 112.0 168.0

51 45.0 33.6 50.4

86 60.1 52.1 78.1



Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO

4.50

4.51

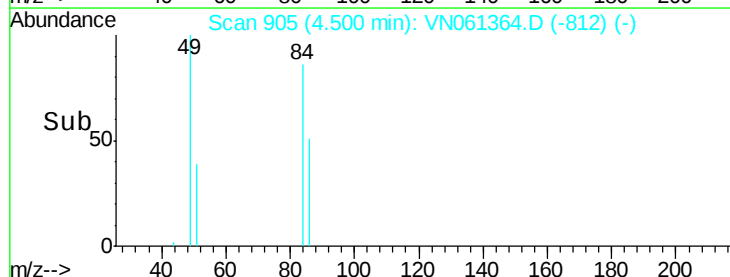
4.52

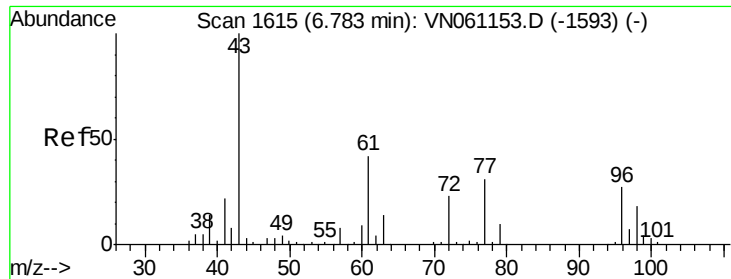
4.53

4.54

4.55

Time-->

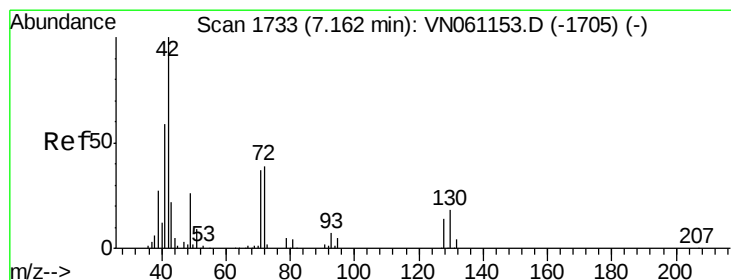
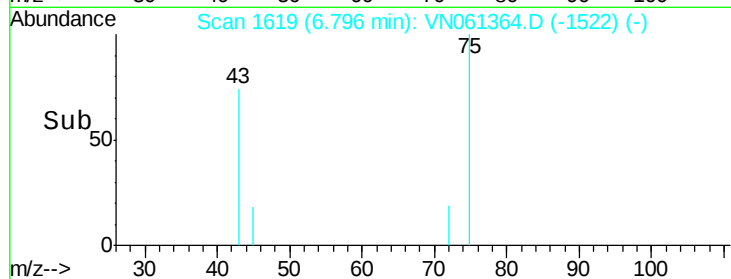
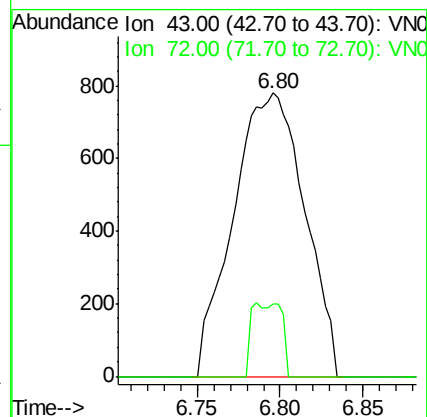
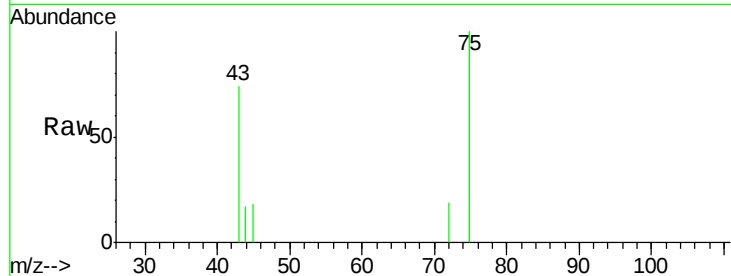




#25
2-Butanone
Concen: 2.567 ug/l
RT: 6.80 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VN061364.D
Acq: 8 May 2020 16:09

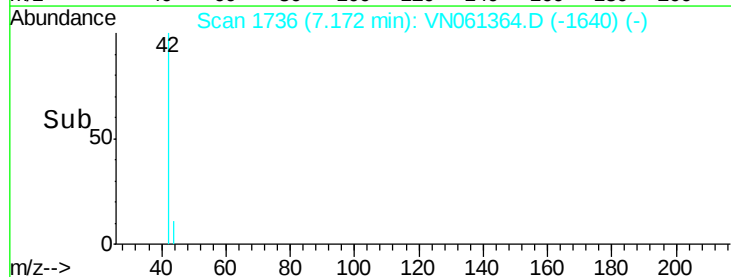
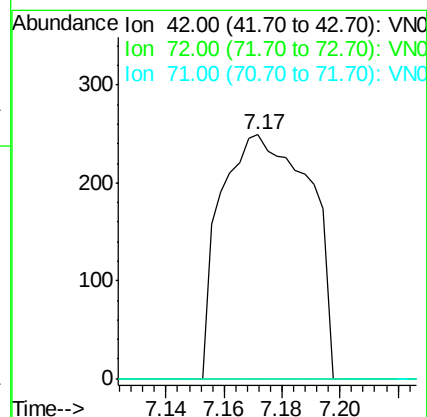
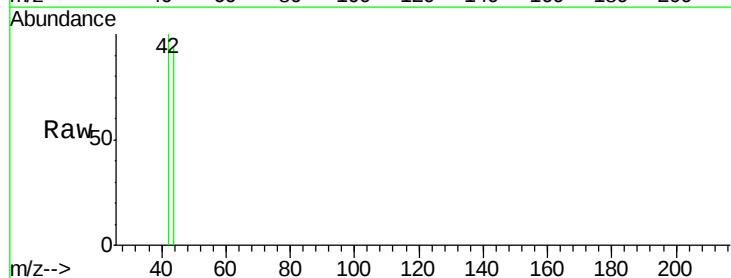
Instrument :
MSVOA_N
ClientSampled :

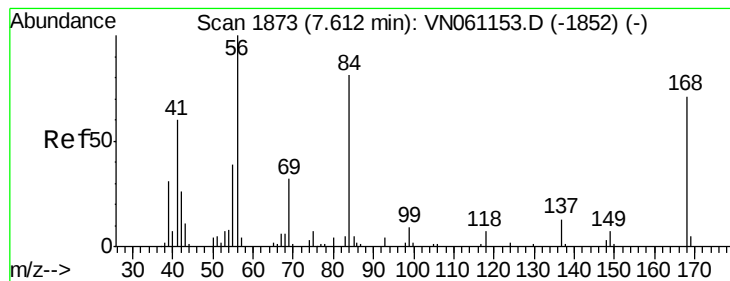
Tot Ion: 43 Resp: 2340
Ion Ratio Lower Upper
43 100
72 25.6 18.2 27.4



#29
Tetrahydrofuran
Concen: 0.865 ug/l
RT: 7.17 min Scan# 1736
Delta R.T. 0.01 min
Lab File: VN061364.D
Acq: 8 May 2020 16:09

Tgt Ion: 42 Resp: 531
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 29.5 44.3#





#31

Cyclohexane

Concen: 1.136 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.01 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

Instrument :

MSVOA_N

ClientSampled :

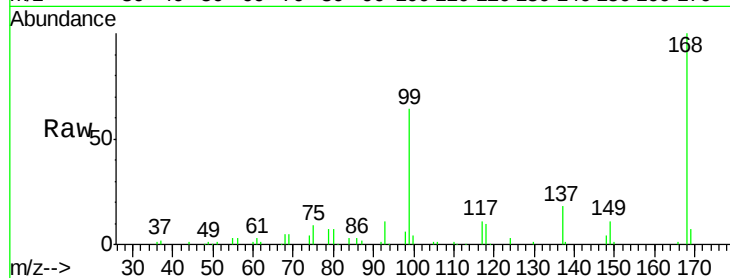
Tot Ion: 56 Resp: 2546

Ion Ratio Lower Upper

56 100

69 178.2 25.7 38.5#

84 119.5 64.6 97.0#

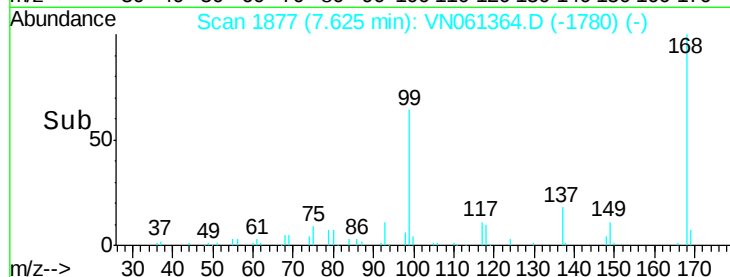


Abundance Ion 56.00 (55.70 to 56.70): VN061153.D (-1852) (-)

Ion 69.00 (68.70 to 69.70): VN061153.D (-1852) (-)

Ion 84.00 (83.70 to 84.70): VN061153.D (-1852) (-)

Time--> 7.55 7.60 7.65

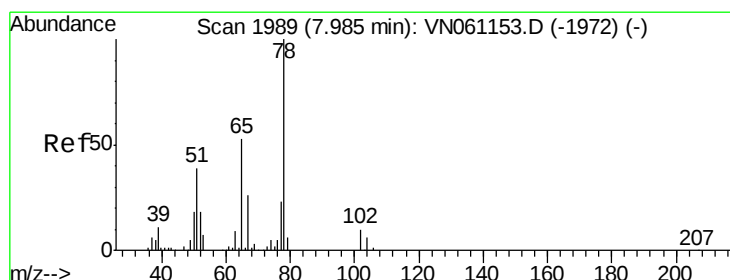


Abundance Ion 56.00 (55.70 to 56.70): VN061364.D (-1780) (-)

Ion 69.00 (68.70 to 69.70): VN061364.D (-1780) (-)

Ion 84.00 (83.70 to 84.70): VN061364.D (-1780) (-)

Time--> 7.55 7.60 7.65



#33

1,2-Dichloroethane-d4

Concen: 54.154 ug/l

RT: 7.99 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN061364.D

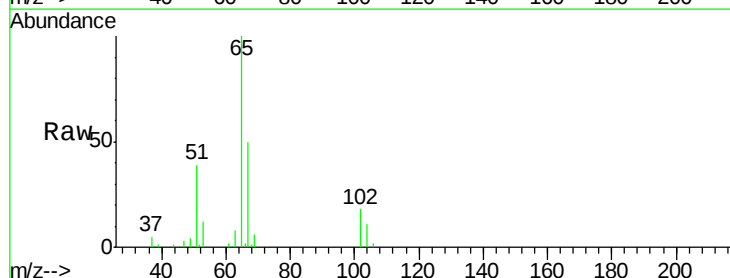
Acq: 8 May 2020 16:09

Tgt Ion: 65 Resp: 83438

Ion Ratio Lower Upper

65 100

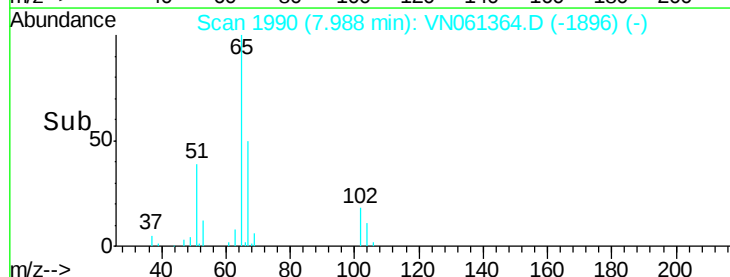
67 50.8 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN061153.D (-1972) (-)

Ion 66.90 (66.60 to 67.60): VN061153.D (-1972) (-)

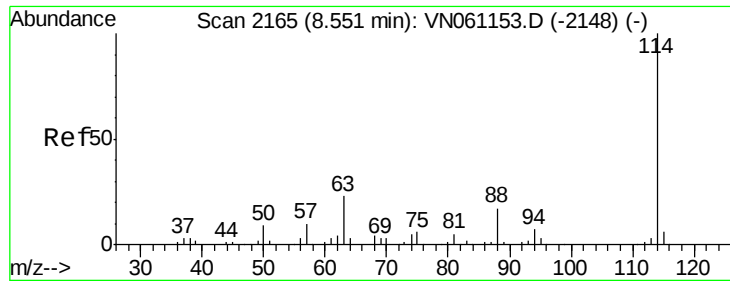
Time--> 7.90 8.00 8.10



Abundance Ion 64.90 (64.60 to 65.60): VN061364.D (-1896) (-)

Ion 66.90 (66.60 to 67.60): VN061364.D (-1896) (-)

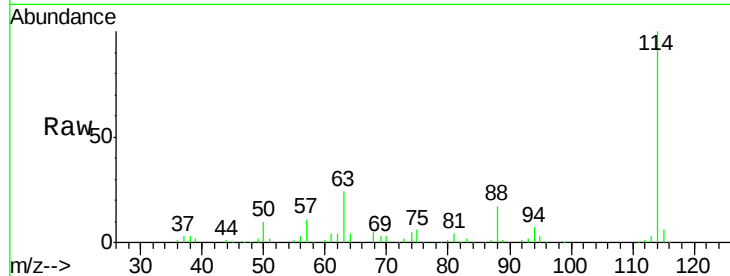
Time--> 7.90 8.00 8.10



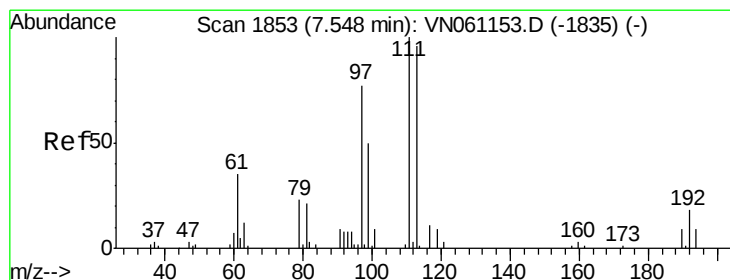
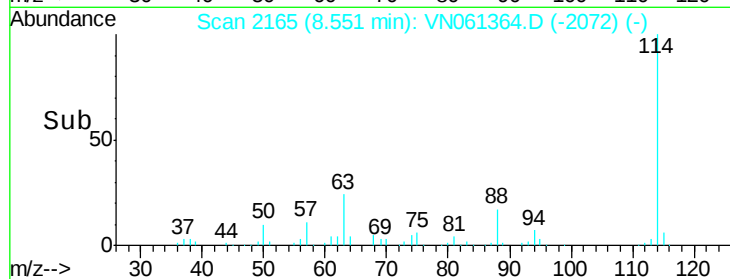
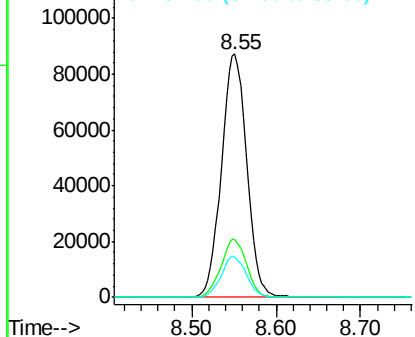
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VN061364.D
 Acq: 8 May 2020 16:09

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 181849
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 46.6
 88 16.6 0.0 33.4

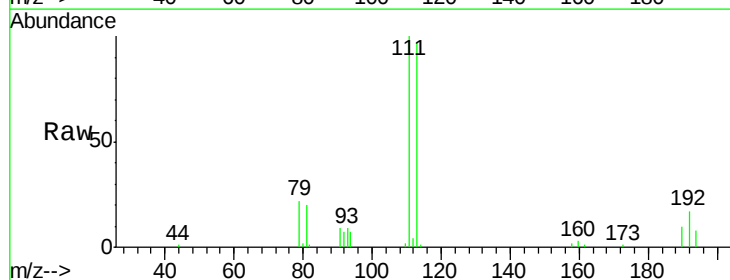


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

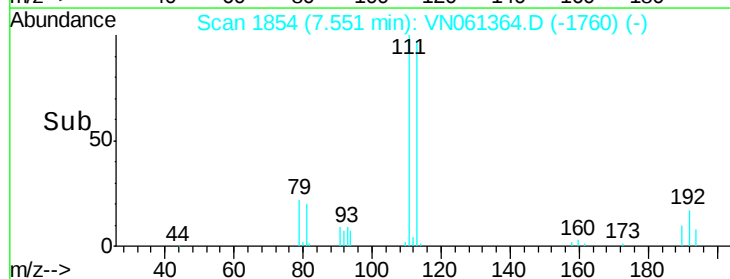
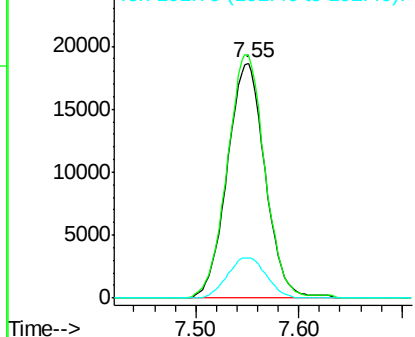


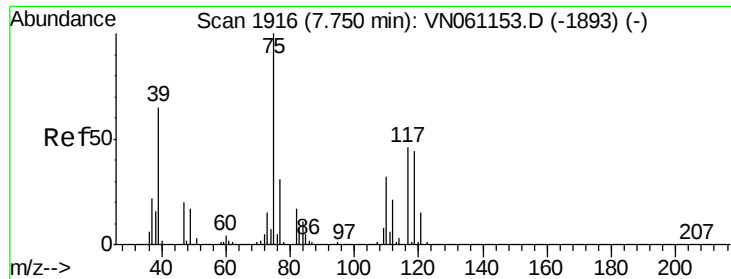
#35
 Dibromofluoromethane
 Concen: 44.132 ug/l
 RT: 7.55 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: VN061364.D
 Acq: 8 May 2020 16:09

Tgt Ion:113 Resp: 47456
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.9 124.3
 192 17.6 14.7 22.1



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

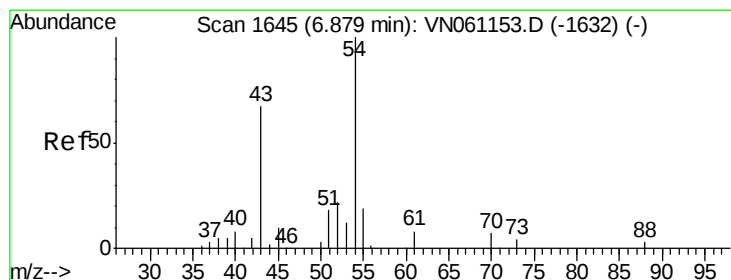
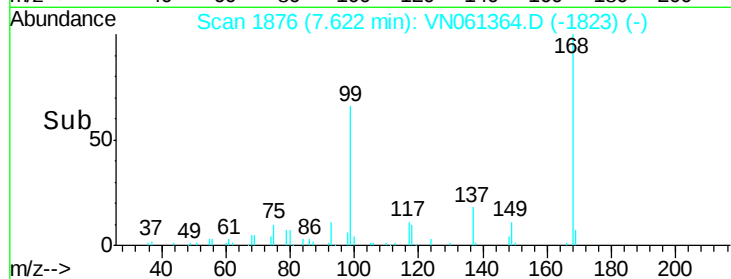
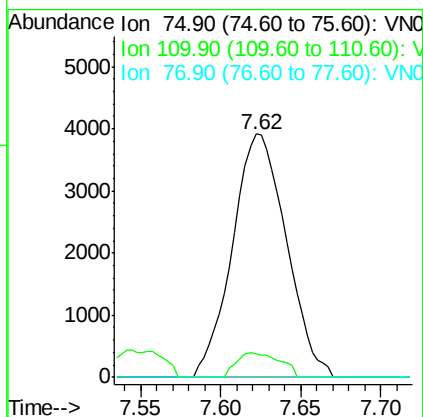
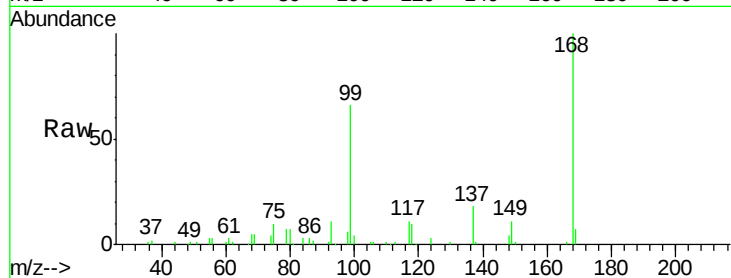




#36
 1,1-Dichloropropene
 Concen: 4.959 ug/l
 RT: 7.62 min Scan# 1876
 Delta R.T. -0.13 min
 Lab File: VN061364.D
 Acq: 8 May 2020 16:09

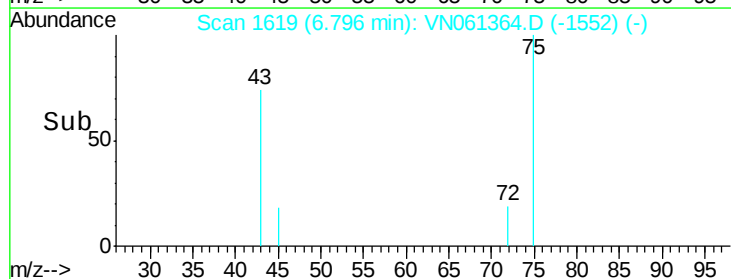
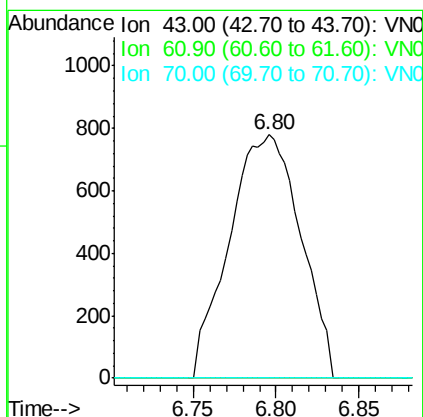
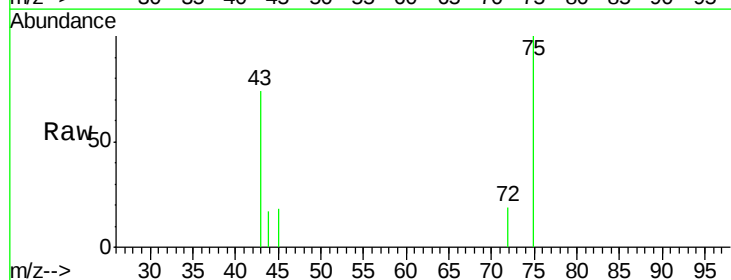
Instrument :
 MSVOA_N
 ClientSampled :

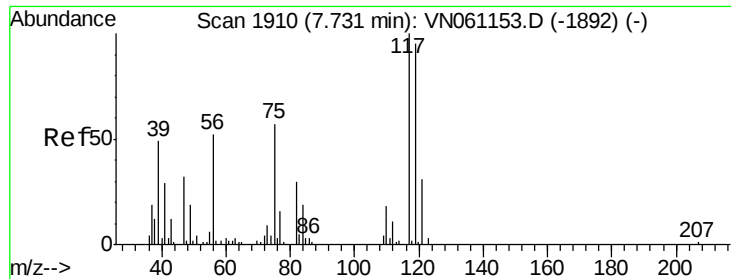
Tot Ion: 75 Resp: 9027
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.0 48.0#
 77 0.0 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 1.096 ug/l
 RT: 6.80 min Scan# 1619
 Delta R.T. -0.08 min
 Lab File: VN061364.D
 Acq: 8 May 2020 16:09

Tgt Ion: 43 Resp: 2340
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.2#
 70 0.0 7.2 10.8#





#38

Carbon Tetrachloride

Concen: 8.489 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. -0.11 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

Instrument :

MSVOA_N

ClientSampled :

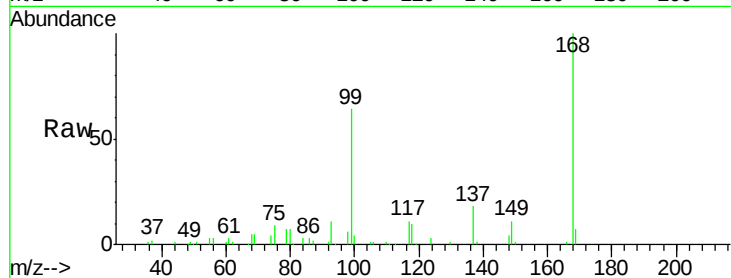
Tot Ion:117 Resp: 10795

Ion Ratio Lower Upper

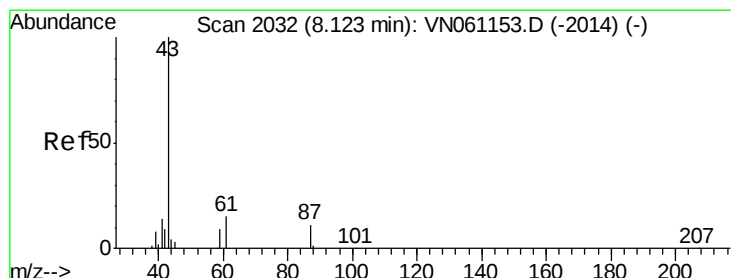
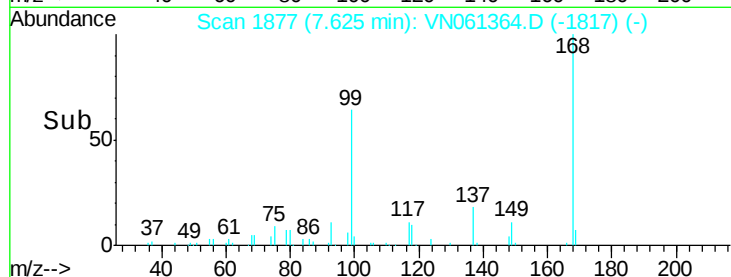
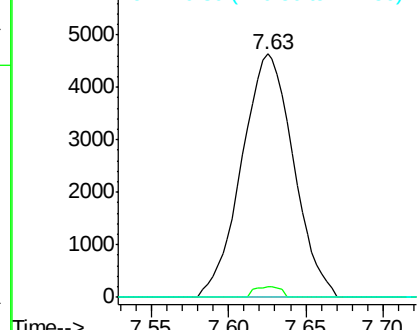
117 100

119 4.4 75.8 113.6#

121 0.0 24.7 37.1#



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: 12.190 ug/l

RT: 8.13 min Scan# 2033

Delta R.T. 0.00 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

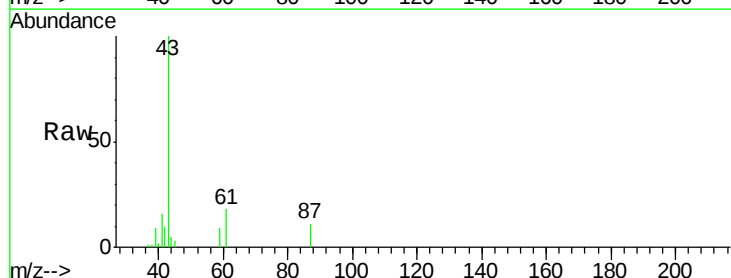
Tgt Ion: 43 Resp: 43174

Ion Ratio Lower Upper

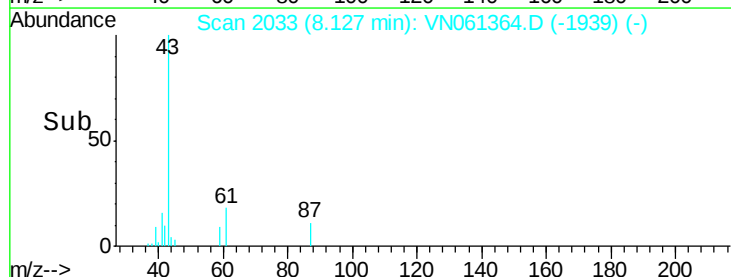
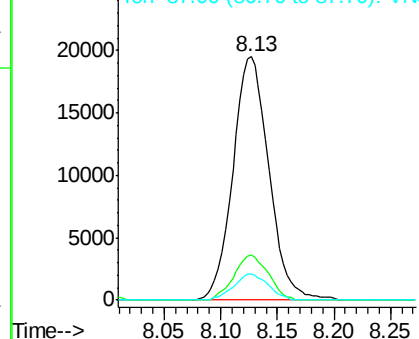
43 100

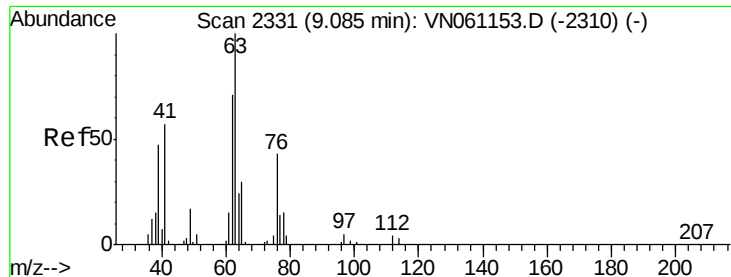
61 17.6 19.5 29.3#

87 10.1 8.9 13.3



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





#45

1,2-Dichloropropane

Concen: 0.471 ug/l

RT: 9.23 min Scan# 2376

Delta R.T. 0.14 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

Instrument :

MSVOA_N

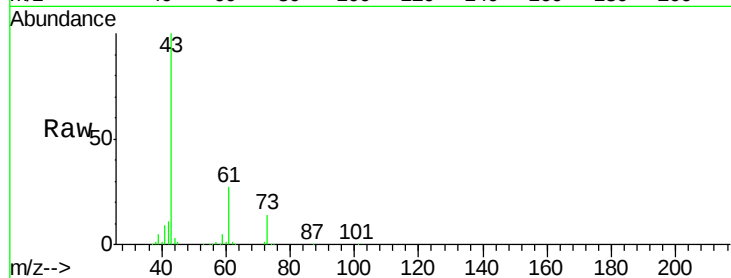
ClientSampleId :

Tot Ion: 63 Resp: 682

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

400

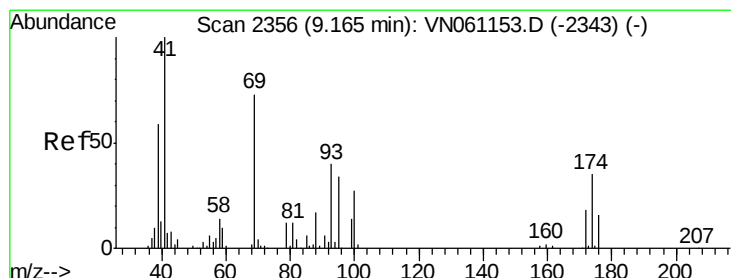
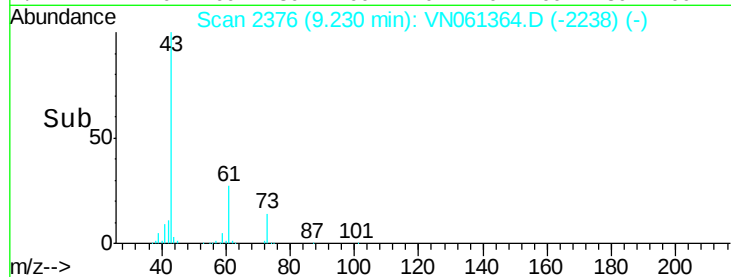
300

200

100

0

Time-->



#48

Methyl methacrylate

Concen: 1.378 ug/l

RT: 9.15 min Scan# 2350

Delta R.T. -0.02 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

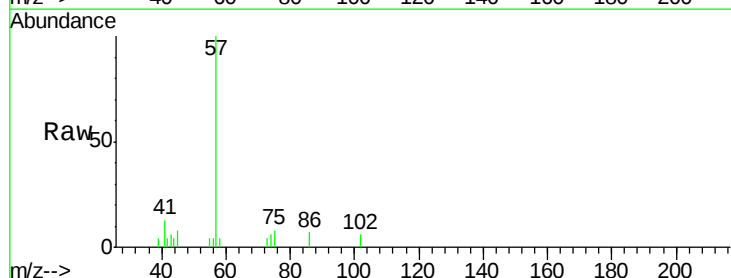
Tgt Ion: 41 Resp: 2203

Ion Ratio Lower Upper

41 100

69 0.0 60.3 90.5#

39 0.0 47.4 71.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

20000

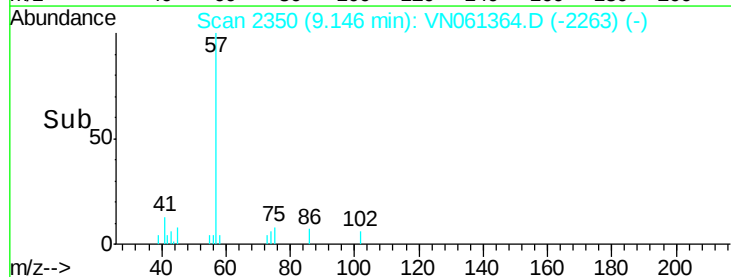
15000

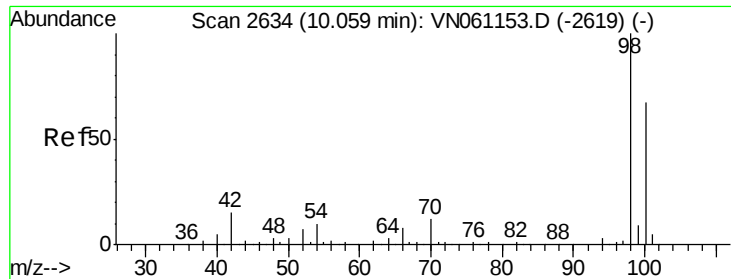
10000

5000

0

Time-->





#50

Toluene-d8

Concen: 52.833 ug/l

RT: 10.06 min Scan# 2634

Delta R.T. 0.00 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

Instrument :

MSVOA_N

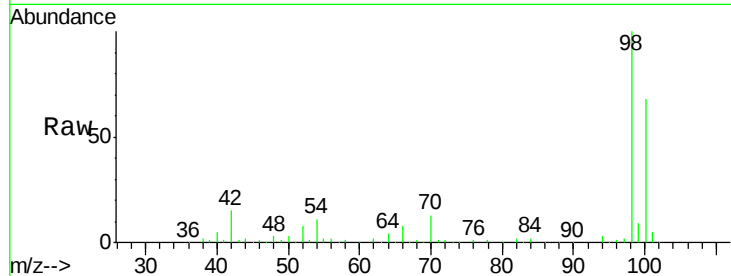
ClientSampleId :

Tot Ion: 98 Resp: 231595

Ion Ratio Lower Upper

98 100

100 66.8 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VN061153.D (-2619) (-)

Ion 100.00 (99.70 to 100.70): VN061153.D (-2619) (-)

10.06

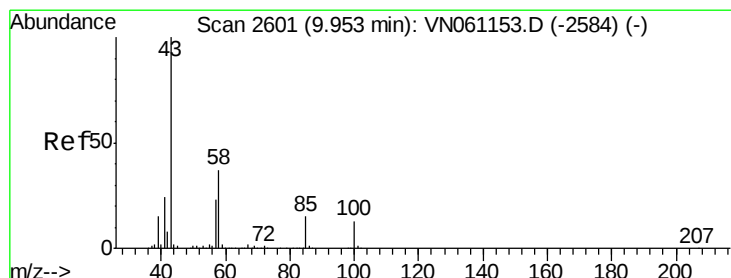
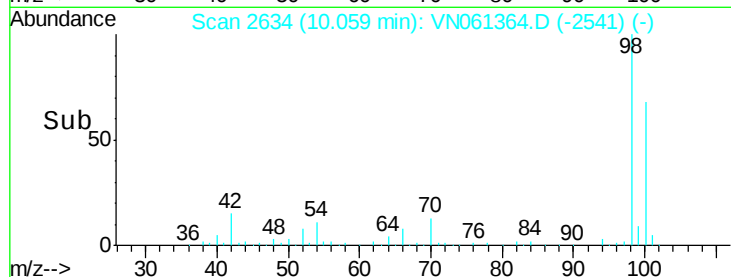
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.322 ug/l

RT: 9.95 min Scan# 2601

Delta R.T. 0.00 min

Lab File: VN061364.D

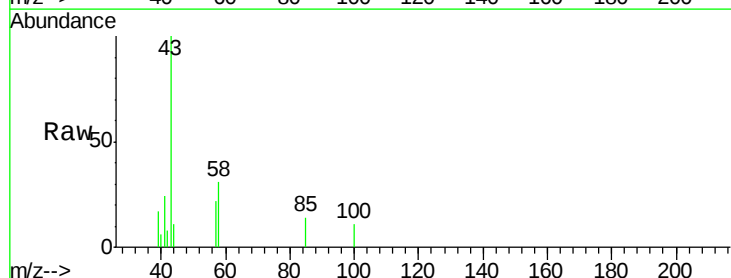
Acq: 8 May 2020 16:09

Tgt Ion: 43 Resp: 4841

Ion Ratio Lower Upper

43 100

58 37.1 29.1 43.7



Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-2584) (-)

Ion 58.00 (57.70 to 58.70): VN061153.D (-2584) (-)

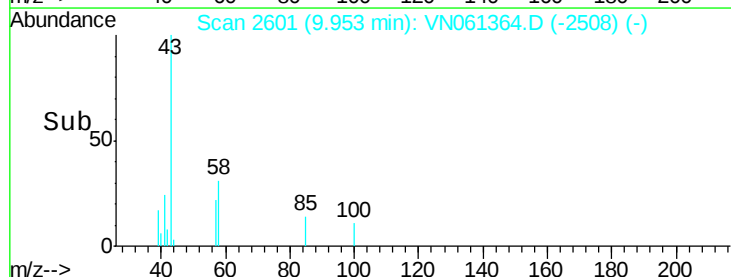
15000

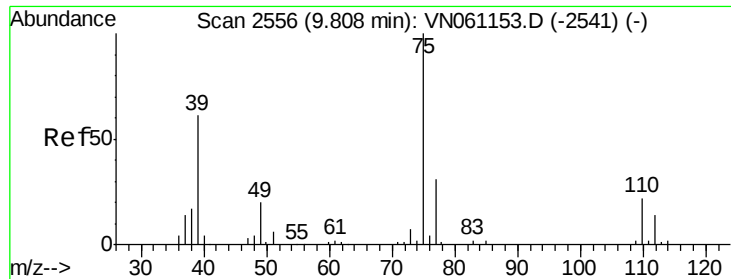
10000

5000

0

Time-->



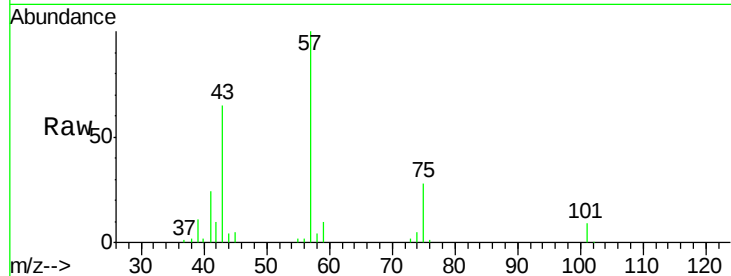


#54

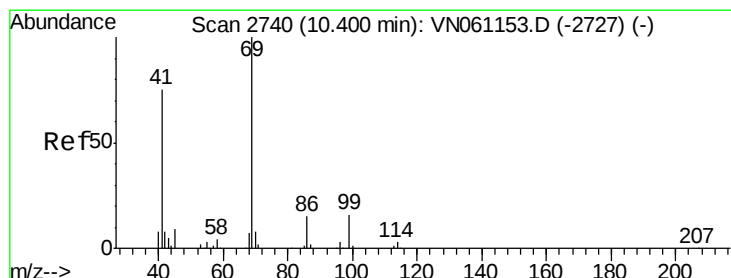
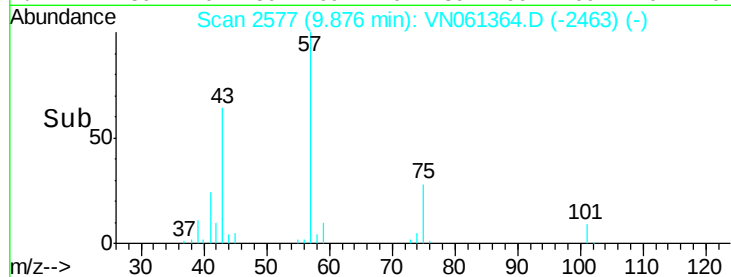
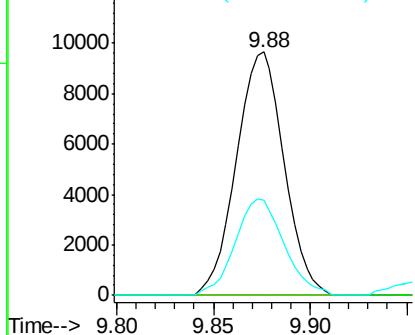
cis-1,3-Dichloropropene
Concen: 7.208 ug/l
RT: 9.88 min Scan# 2577
Delta R.T. 0.07 min
Lab File: VN061364.D
Acq: 8 May 2020 16:09

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 16535
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 38.9 48.7 73.1#



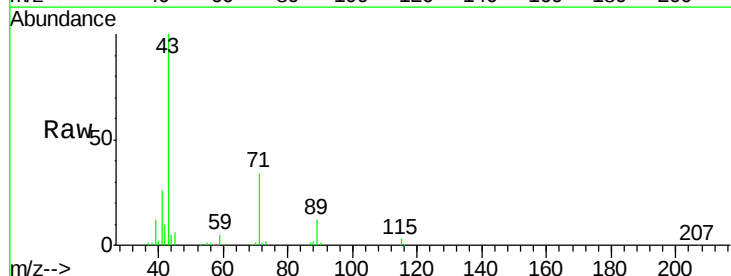
Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



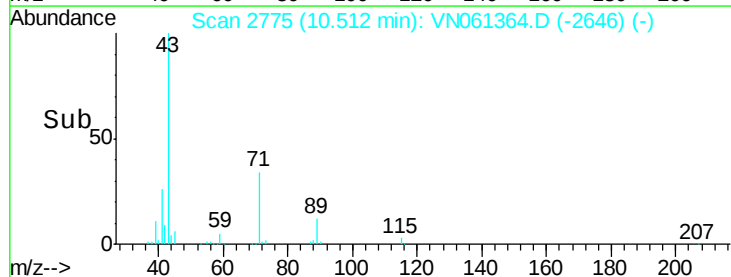
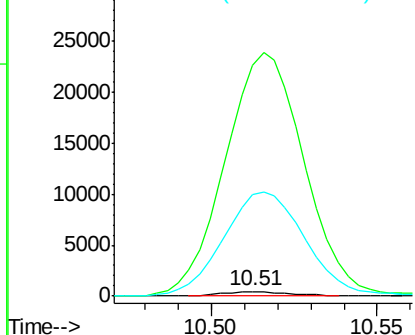
#56

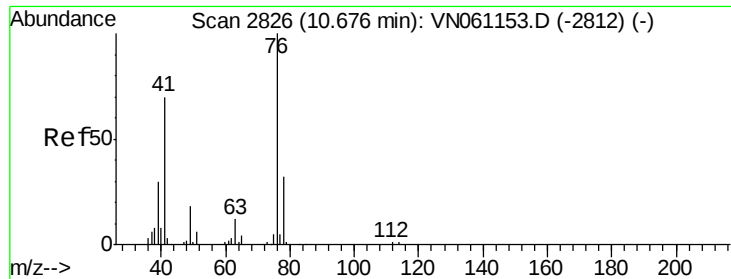
Ethyl methacrylate
Concen: 2.989 ug/l
RT: 10.51 min Scan# 2775
Delta R.T. 0.11 min
Lab File: VN061364.D
Acq: 8 May 2020 16:09

Tgt Ion: 69 Resp: 628
Ion Ratio Lower Upper
69 100
41 6349.2 60.3 90.5#
39 2814.3 35.9 53.9#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

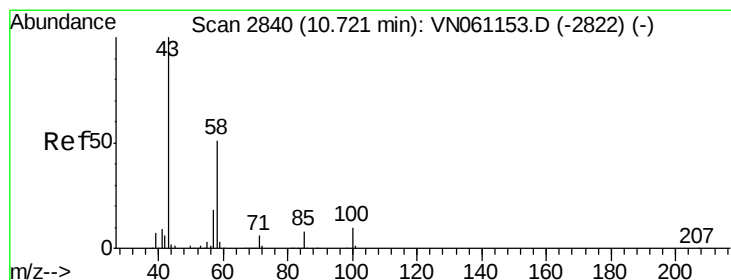
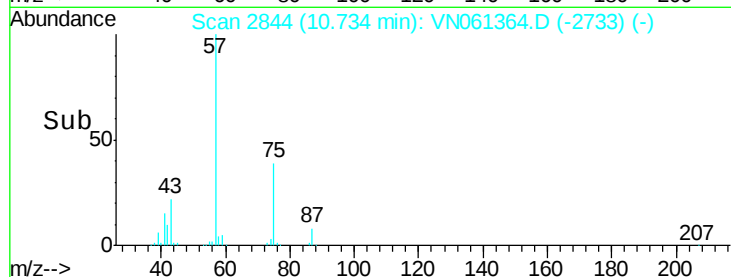
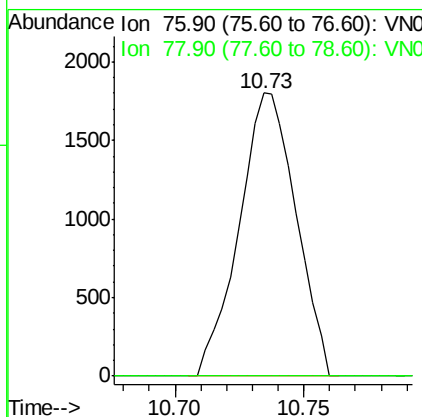
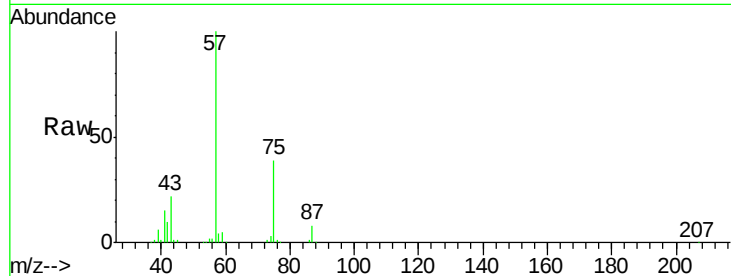




#57
 1,3-Dichloropropane
 Concen: 1.211 ug/l
 RT: 10.73 min Scan# 2844
 Delta R.T. 0.06 min
 Lab File: VN061364.D
 Acq: 8 May 2020 16:09

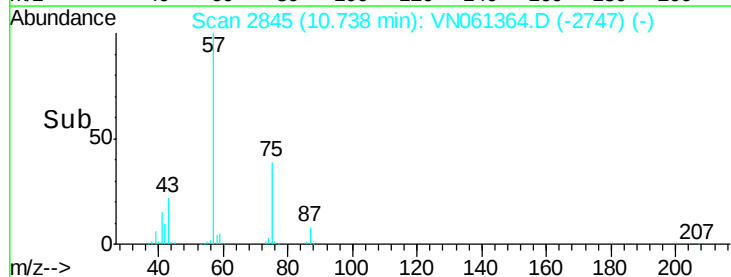
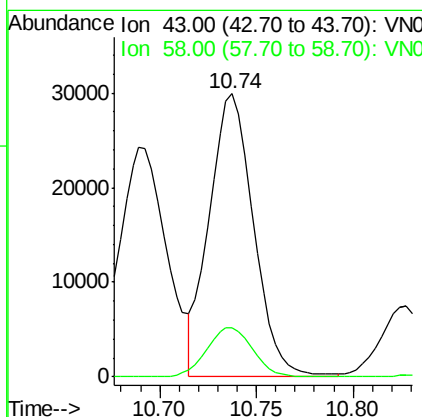
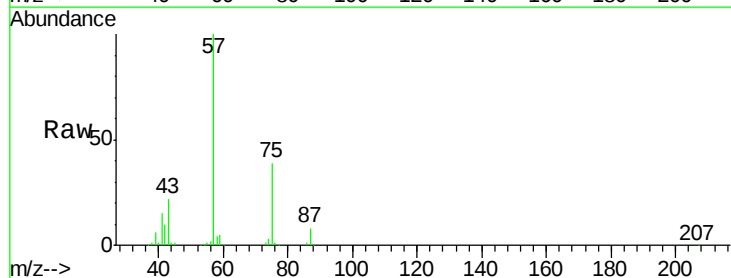
Instrument :
 MSVOA_N
 ClientSampled :

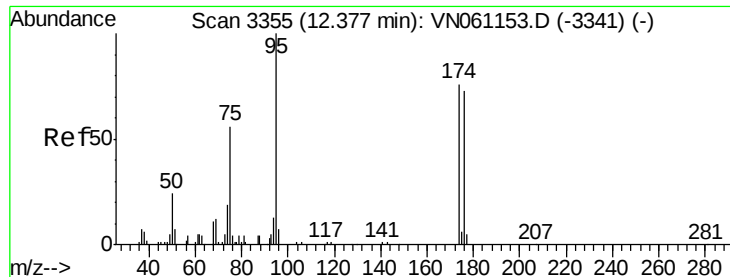
Tot Ion: 76 Resp: 2773
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#59
 2-Hexanone
 Concen: 31.234 ug/l
 RT: 10.74 min Scan# 2845
 Delta R.T. 0.02 min
 Lab File: VN061364.D
 Acq: 8 May 2020 16:09

Tgt Ion: 43 Resp: 47373
 Ion Ratio Lower Upper
 43 100
 58 18.1 25.4 76.4#





#62

4-Bromofluorobenzene

Concen: 52.778 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

Instrument :

MSVOA_N

ClientSampleId :

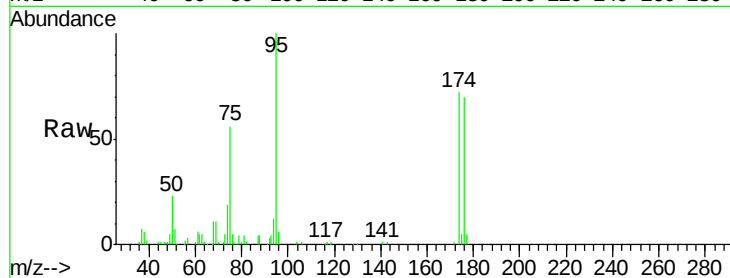
Tot Ion: 95 Resp: 87062

Ion Ratio Lower Upper

95 100

174 72.9 0.0 149.4

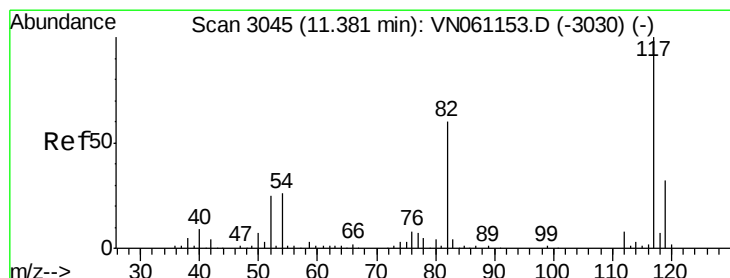
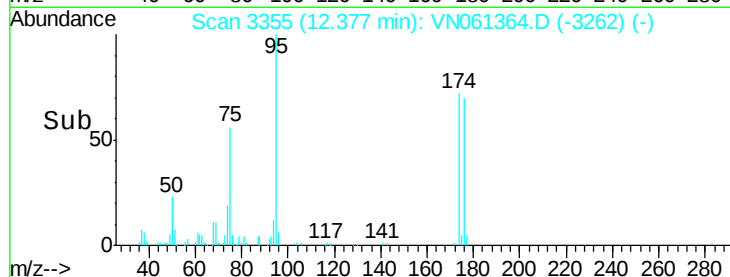
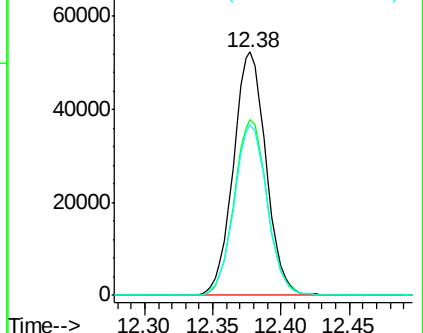
176 70.9 0.0 144.8



Abundance Ion 94.90 (94.60 to 95.60): VN061153.D (-3341) (-)

Ion 173.80 (173.50 to 174.50): VN061153.D (-3341) (-)

Ion 175.80 (175.50 to 176.50): VN061153.D (-3341) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 3045

Delta R.T. 0.00 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

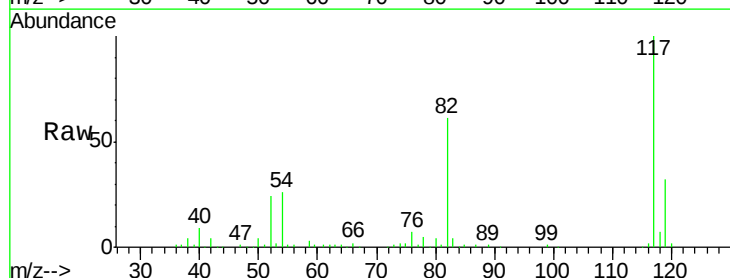
Tgt Ion: 117 Resp: 179944

Ion Ratio Lower Upper

117 100

82 60.7 47.8 71.8

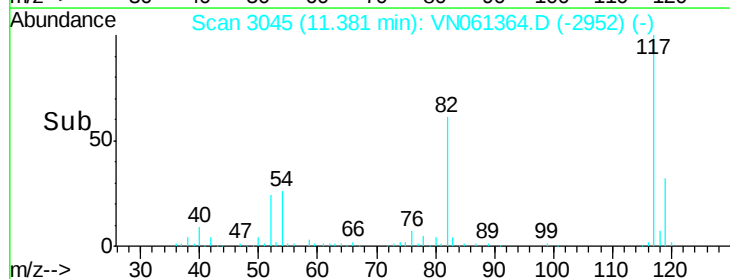
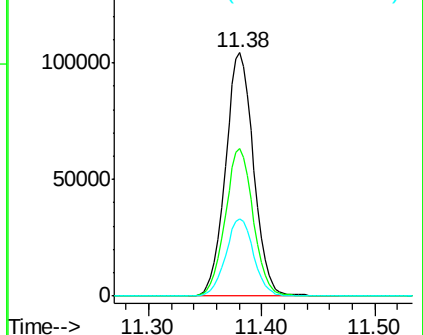
119 31.9 25.8 38.6

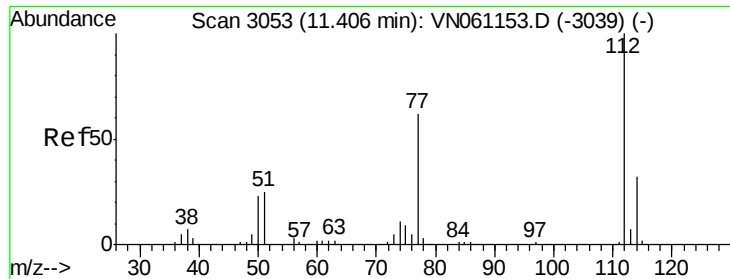


Abundance Ion 116.90 (116.60 to 117.60): VN061153.D (-3030) (-)

Ion 82.00 (81.70 to 82.70): VN061153.D (-3030) (-)

Ion 118.90 (118.60 to 119.60): VN061153.D (-3030) (-)

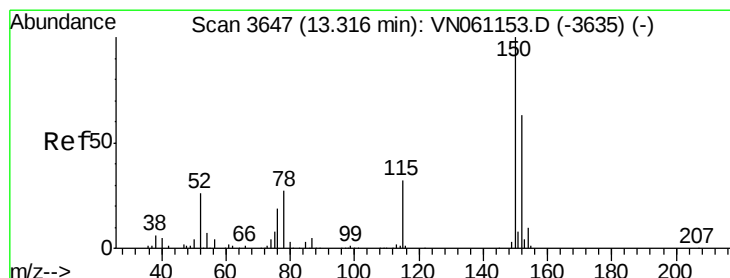
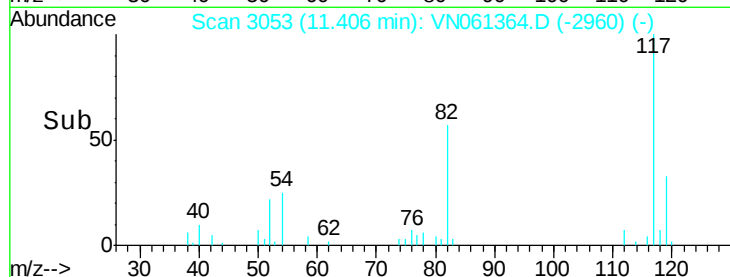
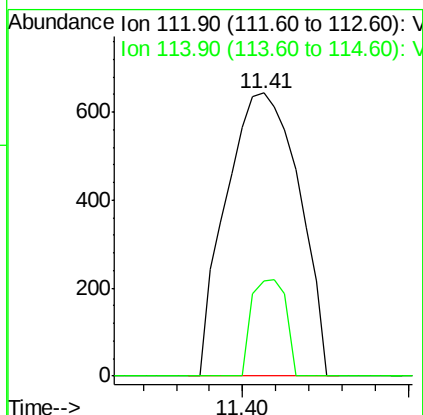
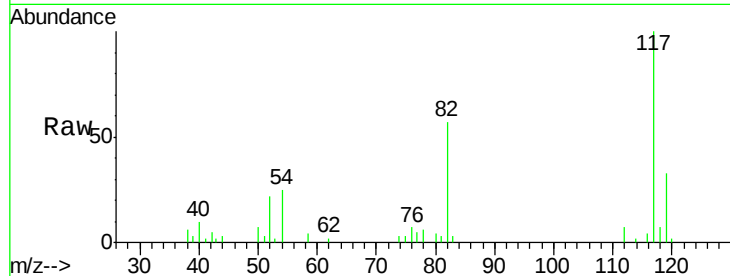




#65
Chlorobenzene
Concen: 0.275 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. 0.00 min
Lab File: VN061364.D
Acq: 8 May 2020 16:09

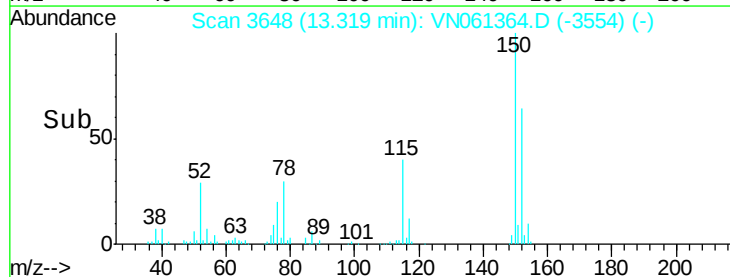
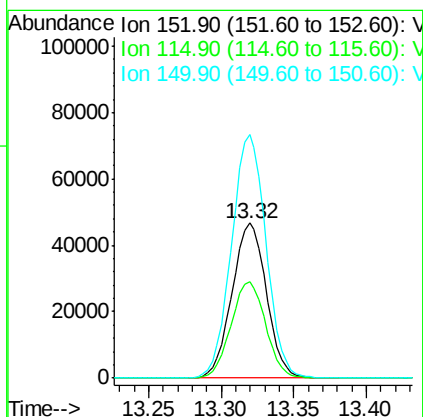
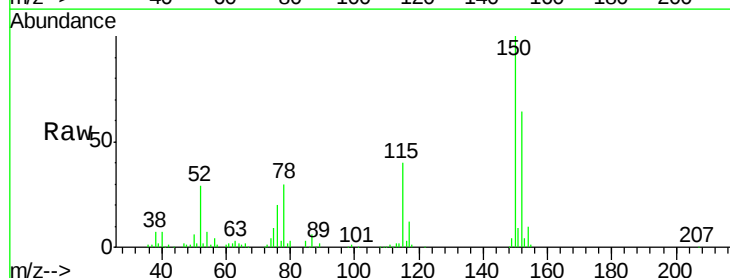
Instrument :
MSVOA_N
ClientSampleId :

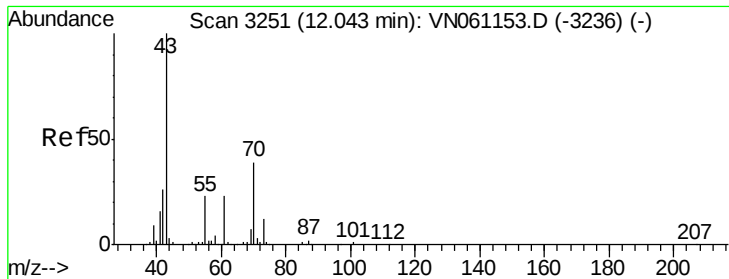
Tot Ion:112 Resp: 983
Ion Ratio Lower Upper
112 100
114 33.7 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3648
Delta R.T. 0.00 min
Lab File: VN061364.D
Acq: 8 May 2020 16:09

Tgt Ion:152 Resp: 77076
Ion Ratio Lower Upper
152 100
115 62.5 31.0 93.0
150 157.4 0.0 351.8

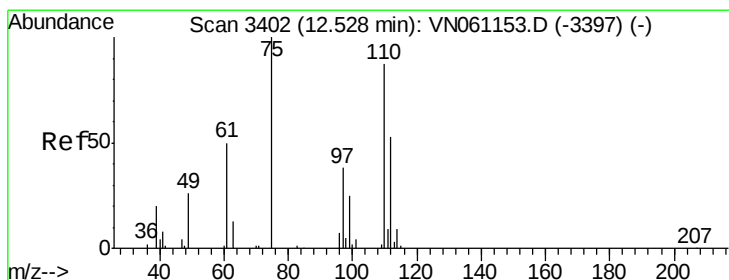
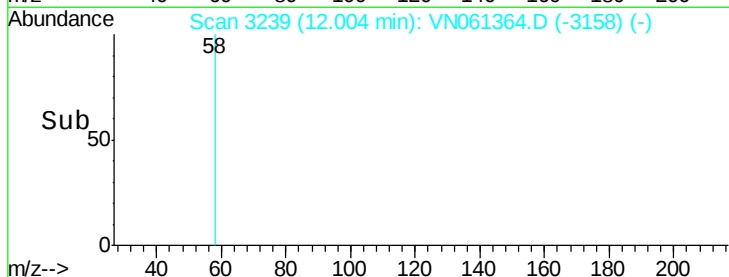
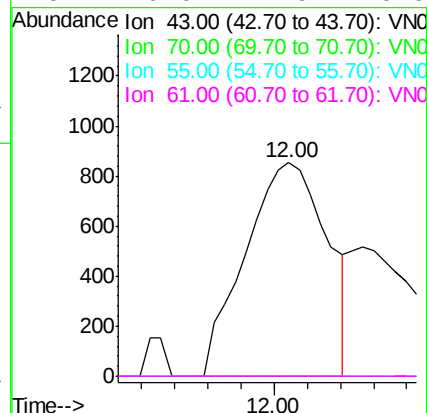
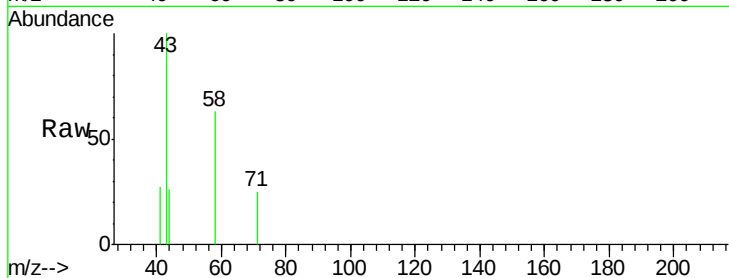




#74
N-amvl acetate
Concen: 0.510 ug/l
RT: 12.00 min Scan# 3239
Delta R.T. -0.04 min
Lab File: VN061364.D
Acq: 8 May 2020 16:09

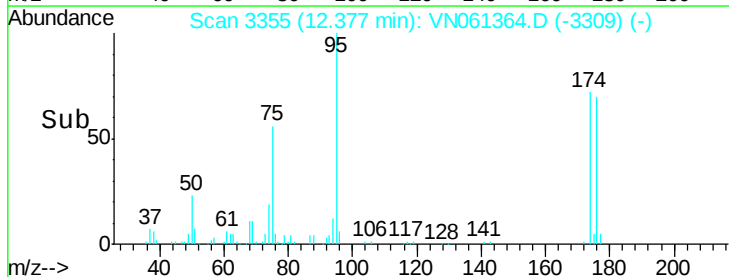
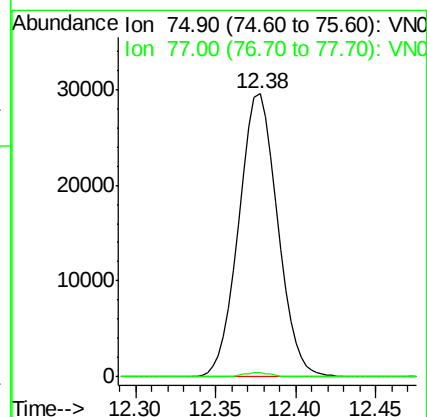
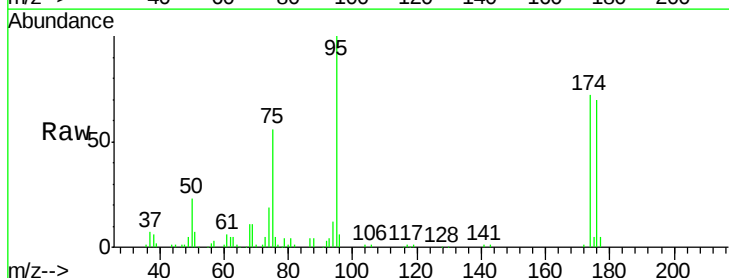
Instrument :
MSVOA_N
ClientSampleId :

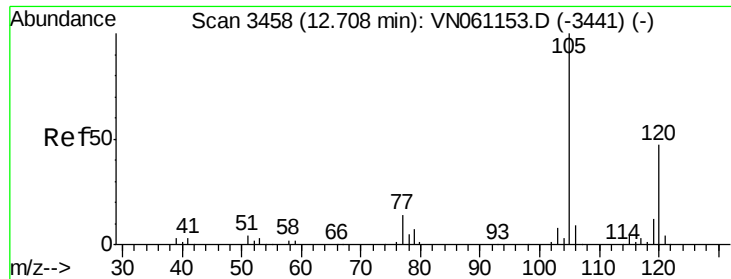
Tot Ion: 43 Resp: 1464
Ion Ratio Lower Upper
43 100
70 0.0 30.6 46.0#
55 0.0 18.5 27.7#
61 0.0 17.9 26.9#



#76
1,2,3-Trichloropropane
Concen: 30.120 ug/l
RT: 12.38 min Scan# 3355
Delta R.T. -0.15 min
Lab File: VN061364.D
Acq: 8 May 2020 16:09

Tgt Ion: 75 Resp: 48944
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#

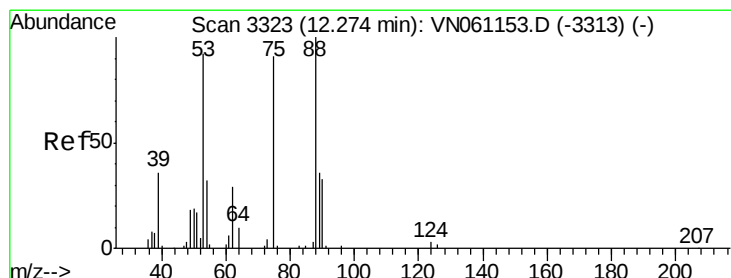
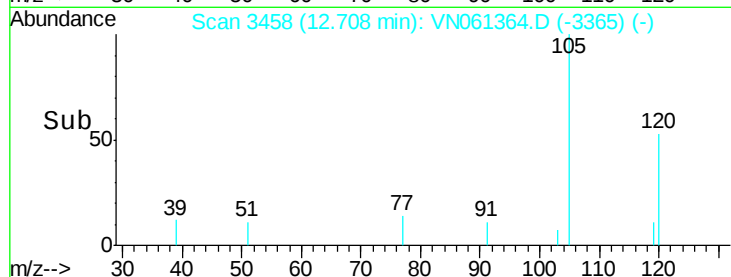
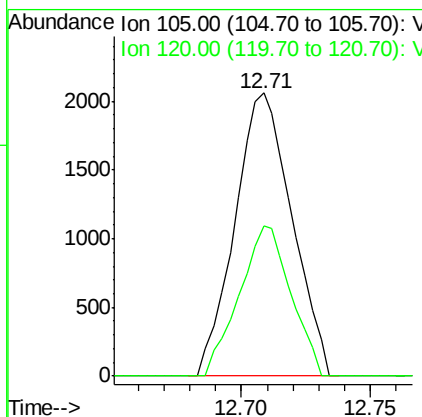
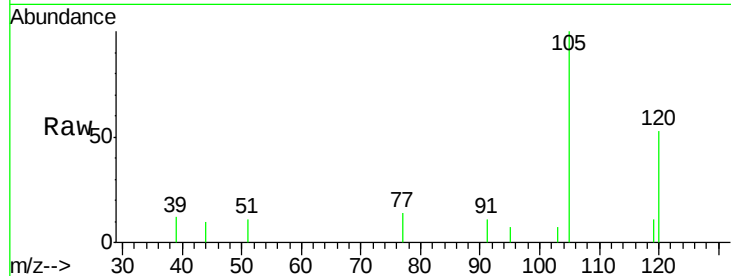




#80
 1,3,5-Trimethylbenzene
 Concen: 0.678 ug/l
 RT: 12.71 min Scan# 3458
 Delta R.T. 0.00 min
 Lab File: VN061364.D
 Acq: 8 May 2020 16:09

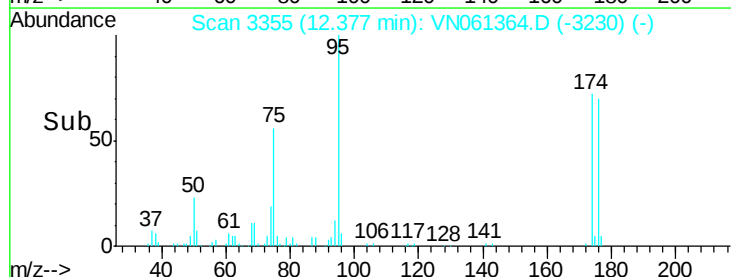
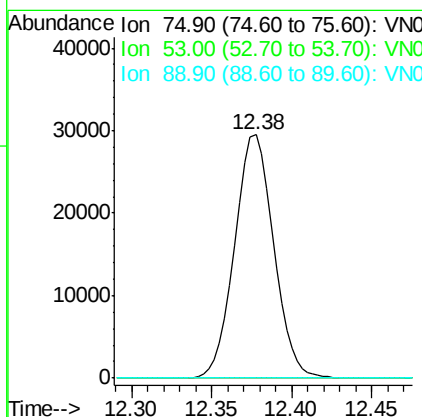
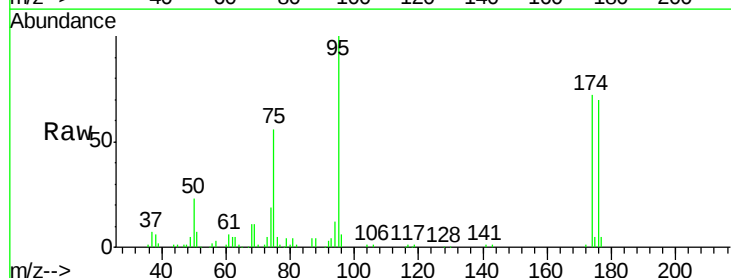
Instrument :
 MSVOA_N
 ClientSampled :

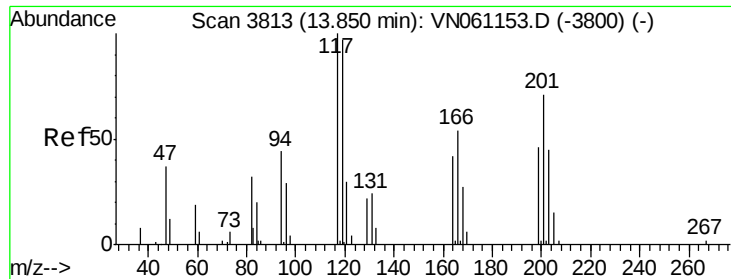
Tot Ion:105 Resp: 3179
 Ion Ratio Lower Upper
 105 100
 120 48.0 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.489 ug/l
 RT: 12.38 min Scan# 3355
 Delta R.T. 0.10 min
 Lab File: VN061364.D
 Acq: 8 May 2020 16:09

Tgt Ion: 75 Resp: 48944
 Ion Ratio Lower Upper
 75 100
 53 0.0 84.1 126.1#
 89 0.0 35.2 52.8#





#90

Hexachloroethane

Concen: 8.548 ug/l

RT: 13.92 min Scan# 3835

Delta R.T. 0.07 min

Lab File: VN061364.D

Acq: 8 May 2020 16:09

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:117 Resp: 551

Ion Ratio Lower Upper

117 100

201 0.0 35.5 106.7#

