

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052120\
 Data File : VN061534.D
 Acq On : 21 May 2020 16:37
 Operator : JC/MD
 Sample : PB129027ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 22 07:17:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	296438	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	539985	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	549611	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	239344	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	197456	44.63	ug/l	0.00
Spiked Amount			Recovery	=	89.26%	
35) Dibromofluoromethane	7.55	113	143688	50.79	ug/l	0.00
Spiked Amount			Recovery	=	101.58%	
50) Toluene-d8	10.06	98	677332	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	12.38	95	257784	52.59	ug/l	0.00
Spiked Amount			Recovery	=	105.18%	

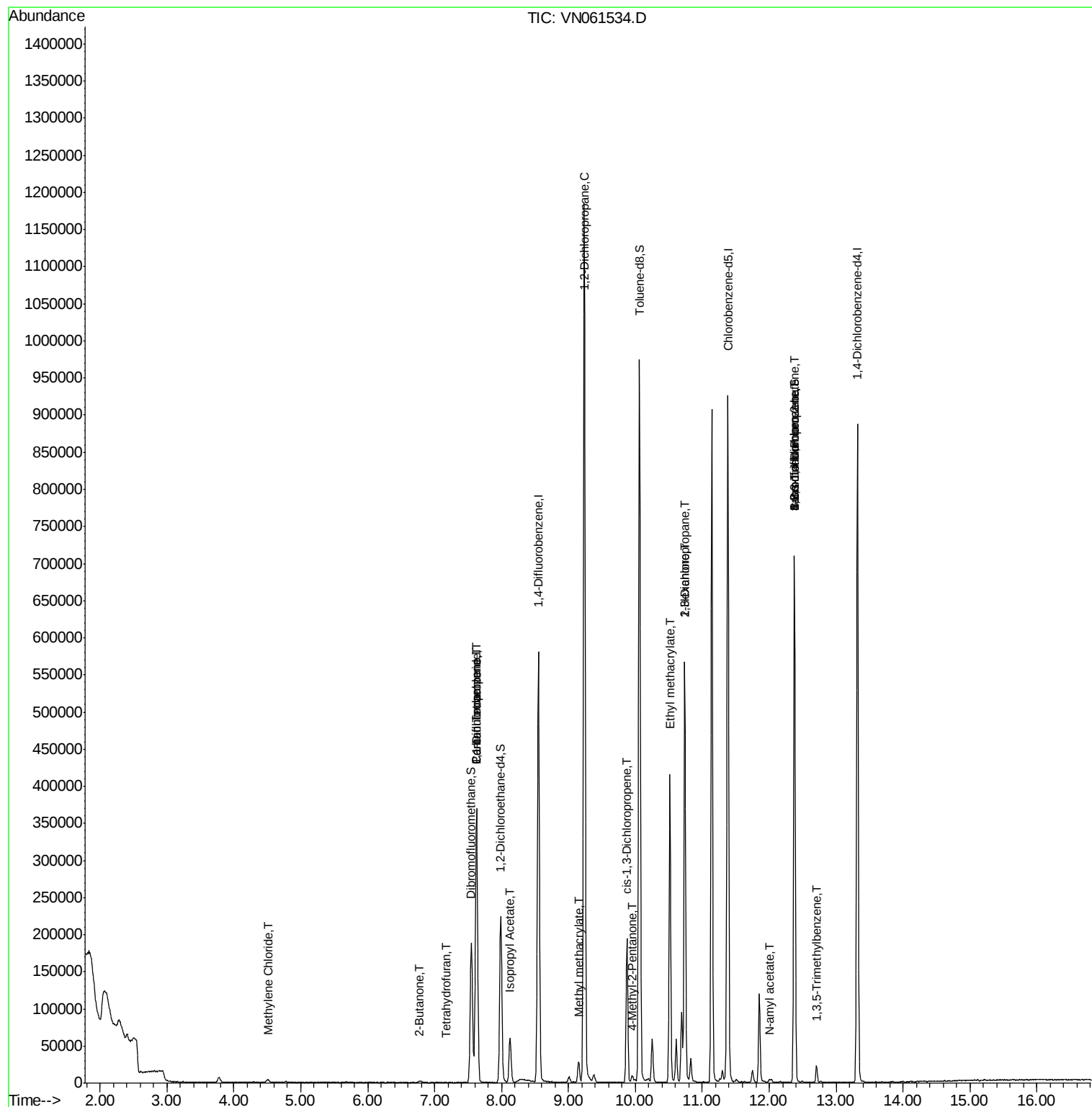
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	308	Below Cal	#	5
16) Acetone	3.77	43	12043	Below Cal		98
17) Carbon Disulfide	4.03	76	62	Below Cal	#	75
18) Methyl Acetate	4.29	43	2079	Below Cal	#	65
20) Methylene Chloride	4.52	84	3647	1.003	ug/l #	66
25) 2-Butanone	6.78	43	1868	0.927	ug/l #	46
29) Tetrahydrofuran	7.18	42	462	0.346	ug/l #	29
31) Cyclohexane	7.62	56	6199	Below Cal	#	10
36) 1,1-Dichloropropene	7.62	75	24462	4.845	ug/l #	49
38) Carbon Tetrachloride	7.63	117	30655	6.594	ug/l #	15
43) Isopropyl Acetate	8.12	43	70794	8.864	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	1734	0.455	ug/l #	43
48) Methyl methacrylate	9.15	41	3299	0.894	ug/l #	9
49) 1,4-Dioxane	9.24	88	100	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.95	43	6241	1.435	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	38748	5.912	ug/l #	58
56) Ethyl methacrylate	10.52	69	1195	0.207	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	6310	0.989	ug/l #	42
59) 2-Hexanone	10.74	43	76432	24.283	ug/l #	50
71) Bromoform	12.38	173	1891	2.601	ug/l #	1
74) N-amyl acetate	12.00	43	1703	0.242	ug/l #	45
76) 1,2,3-Trichloropropane	12.37	75	128931	25.105	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	13005	0.827	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.37	75	128931	66.597	ug/l #	12

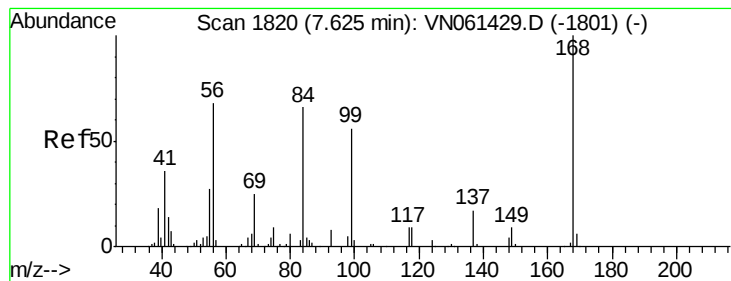
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052120\
Data File : VN061534.D
Acq On : 21 May 2020 16:37
Operator : JC/MD
Sample : PB129027ZHE#08
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: May 22 07:17:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

Instrument :

MSVOA_N

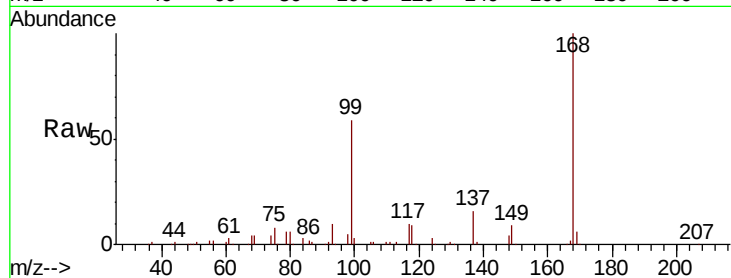
ClientSampled :

Tot Ion:168 Resp: 296438

Ion Ratio Lower Upper

168 100

99 58.8 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

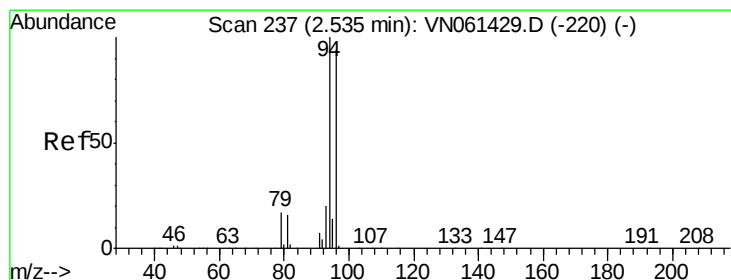
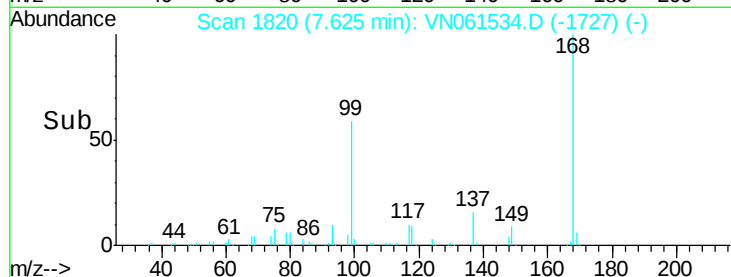
7.63

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061534.D

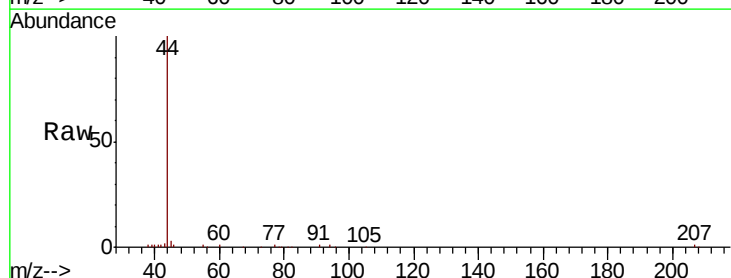
Acq: 21 May 2020 16:37

Tgt Ion: 94 Resp: 308

Ion Ratio Lower Upper

94 100

96 1.7 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

400

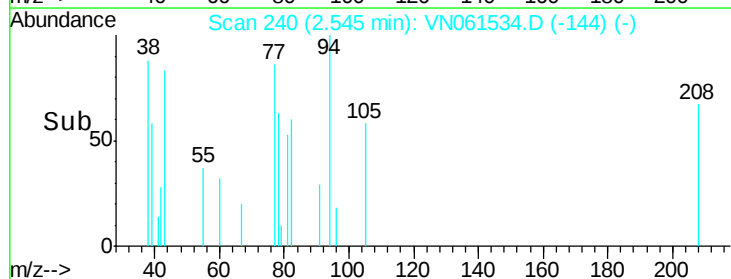
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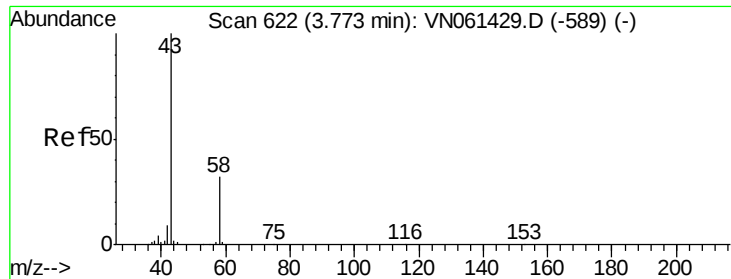
200

100

0

Time-->

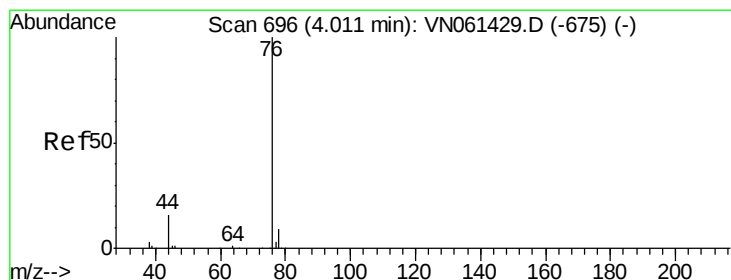
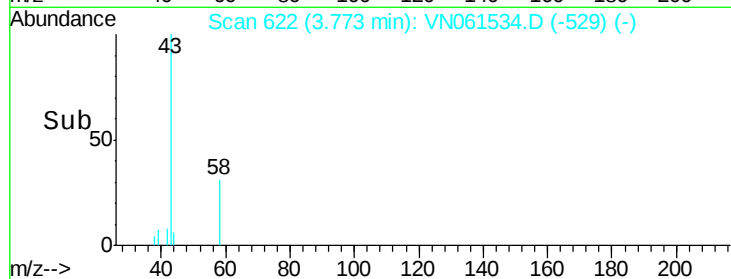
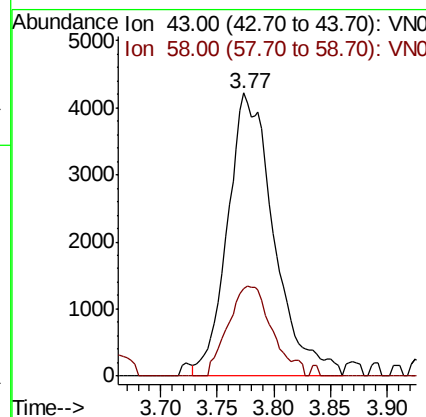
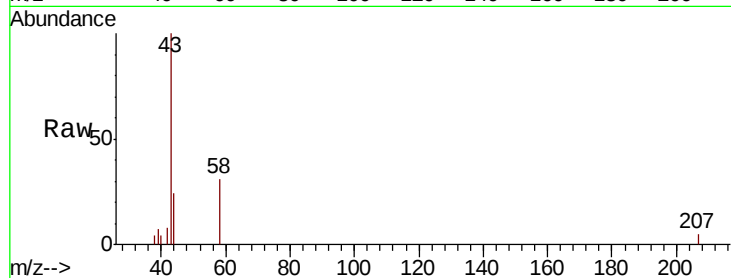




#16
Acetone
Concen: Below Cal
RT: 3.77 min Scan# 622
Delta R.T. 0.00 min
Lab File: VN061534.D
Acq: 21 May 2020 16:37

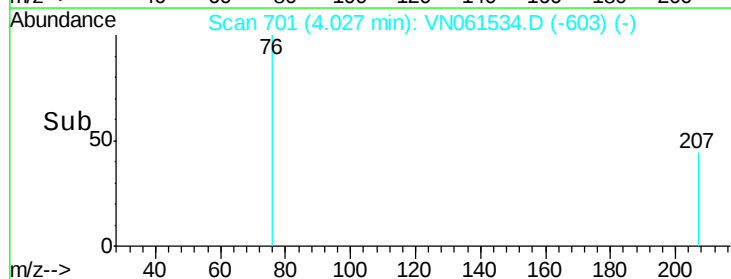
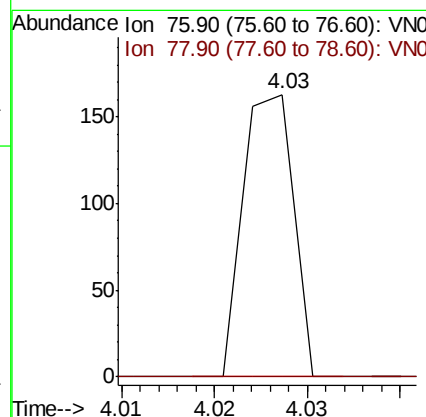
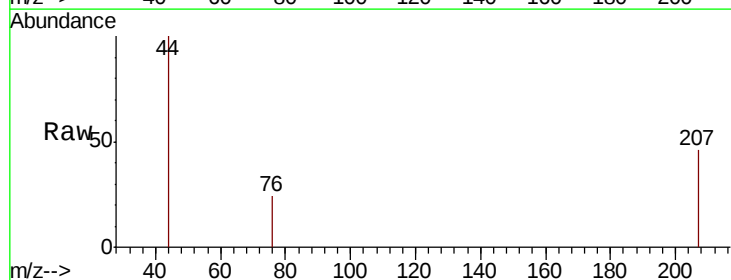
Instrument :
MSVOA_N
ClientSampled :

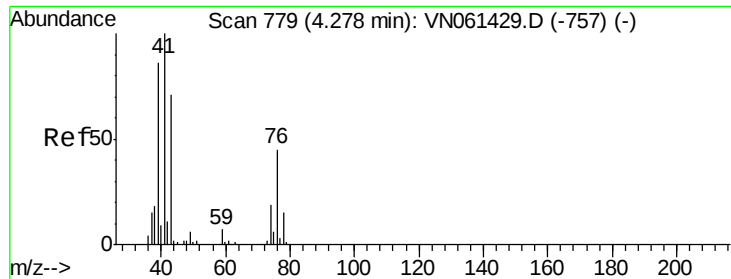
Tot Ion: 43 Resp: 12043
Ion Ratio Lower Upper
43 100
58 30.9 25.6 38.4



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.03 min Scan# 701
Delta R.T. 0.02 min
Lab File: VN061534.D
Acq: 21 May 2020 16:37

Tgt Ion: 76 Resp: 62
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

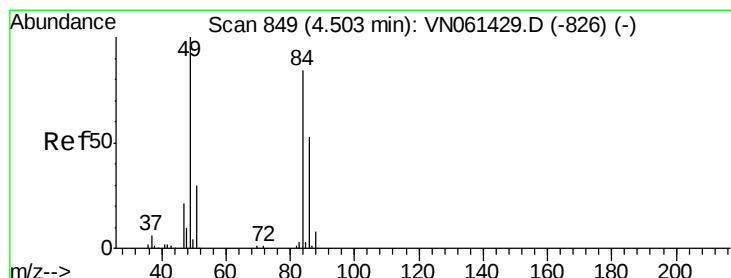
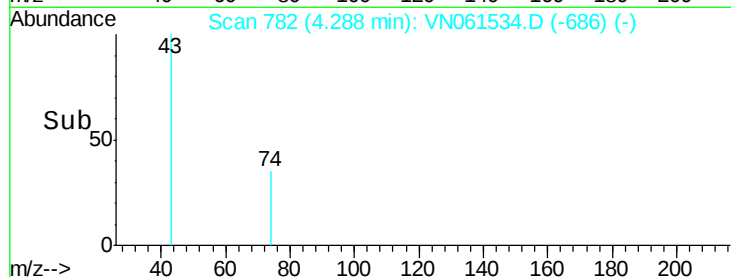
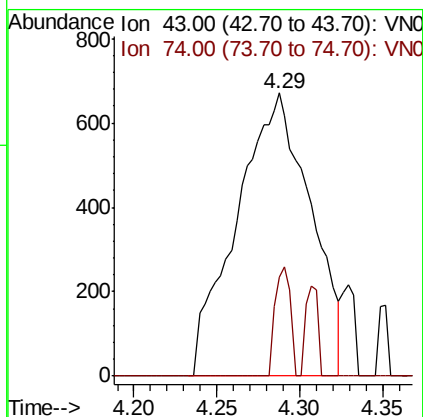
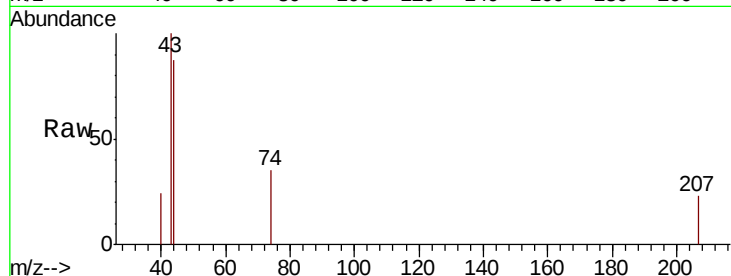




#18
Methyl Acetate
Concen: Below Cal
RT: 4.29 min Scan# 782
Delta R.T. 0.01 min
Lab File: VN061534.D
Acq: 21 May 2020 16:37

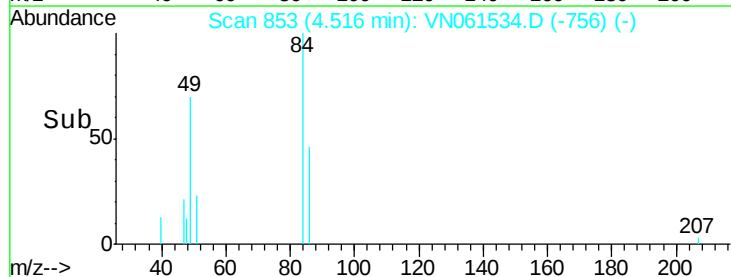
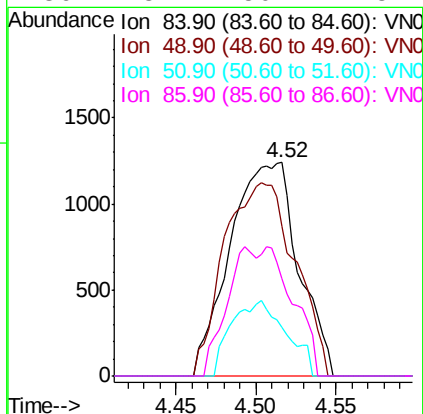
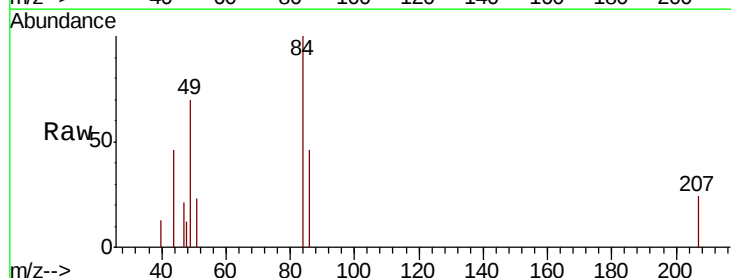
Instrument :
MSVOA_N
ClientSampleId :

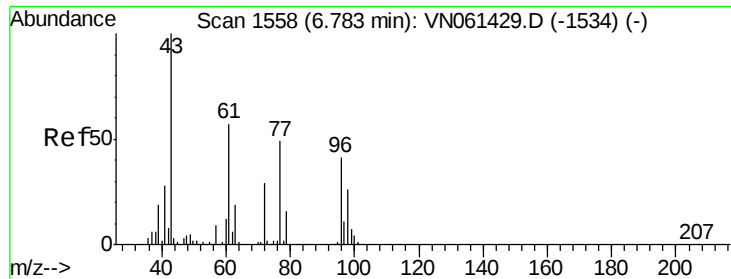
Tot Ion: 43 Resp: 2079
Ion Ratio Lower Upper
43 100
74 8.0 20.8 31.2#



#20
Methylene Chloride
Concen: 1.003 ug/l
RT: 4.52 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN061534.D
Acq: 21 May 2020 16:37

Tgt Ion: 84 Resp: 3647
Ion Ratio Lower Upper
84 100
49 69.9 95.3 142.9#
51 22.9 29.0 43.6#
86 45.7 50.2 75.2#

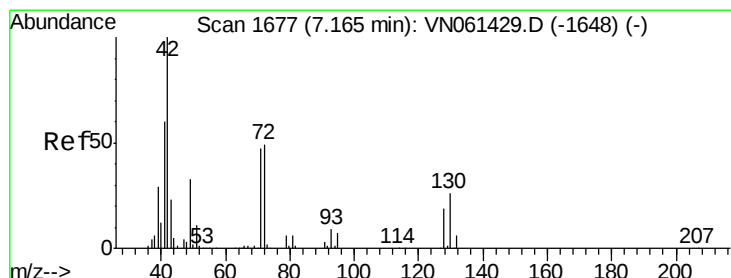
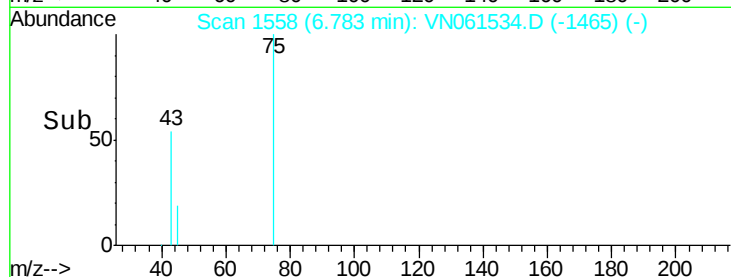
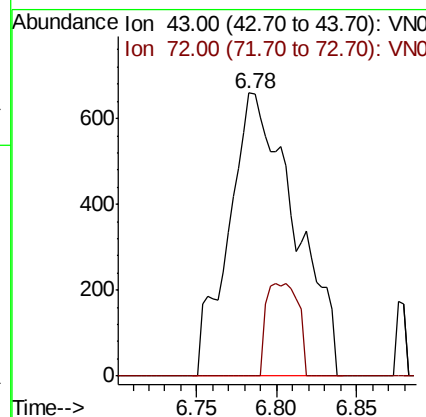
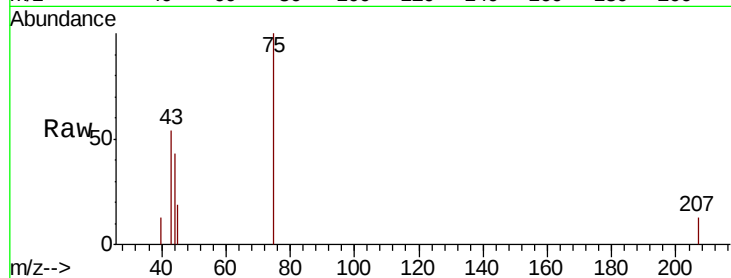




#25
2-Butanone
Concen: 0.927 ug/l
RT: 6.78 min Scan# 1558
Delta R.T. -0.00 min
Lab File: VN061534.D
Acq: 21 May 2020 16:37

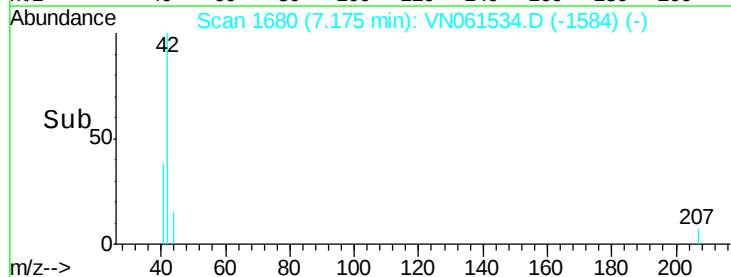
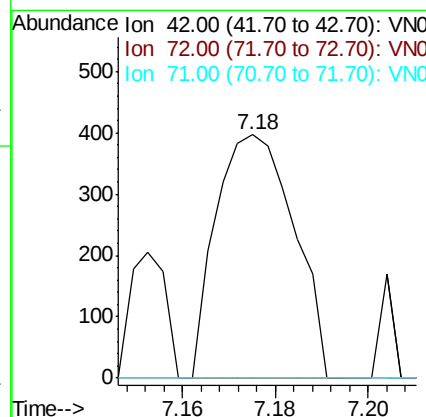
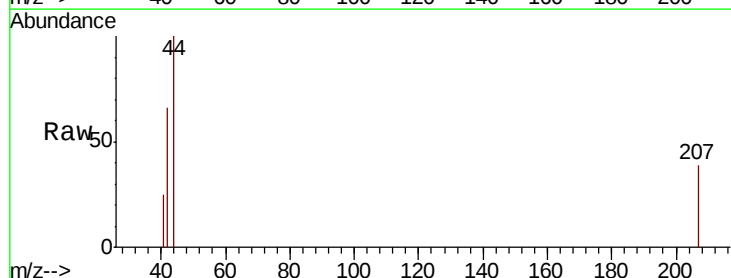
Instrument :
MSVOA_N
ClientSampleId :

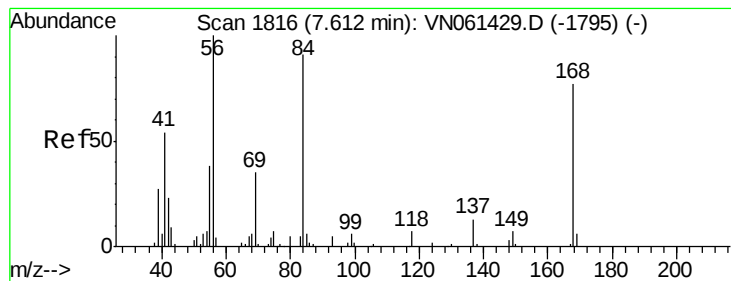
Tot Ion: 43 Resp: 1868
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



#29
Tetrahydrofuran
Concen: 0.346 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN061534.D
Acq: 21 May 2020 16:37

Tgt Ion: 42 Resp: 462
Ion Ratio Lower Upper
42 100
72 0.0 39.0 58.6#
71 0.0 36.9 55.3#





#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

Instrument :
MSVOA_N
ClientSampled :

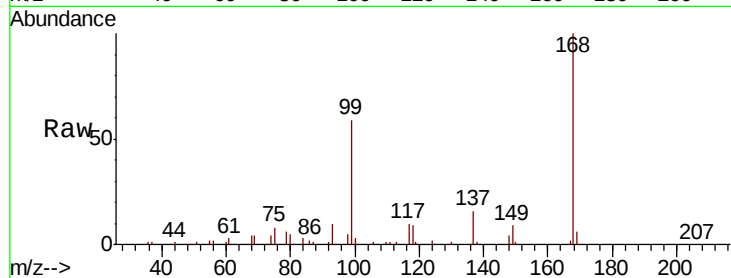
Tot Ion: 56 Resp: 6199

Ion Ratio Lower Upper

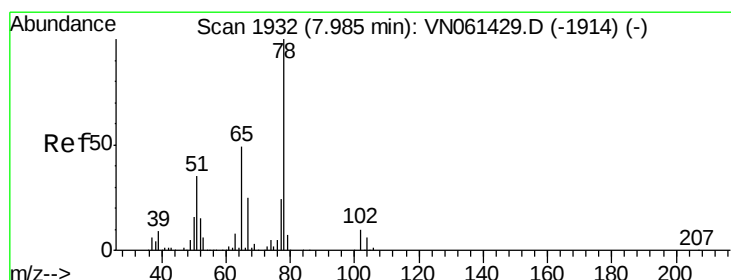
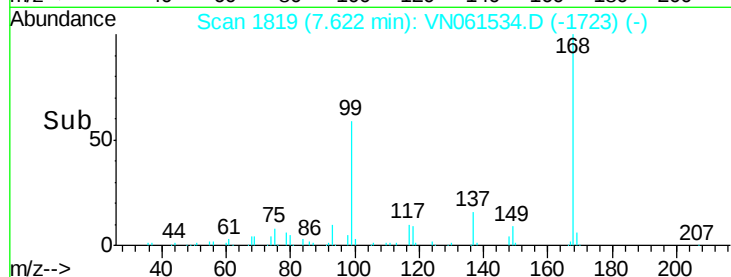
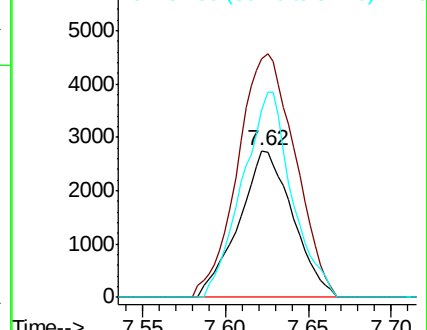
56 100

69 162.5 27.8 41.6#

84 128.1 72.7 109.1#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 44.631 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061534.D

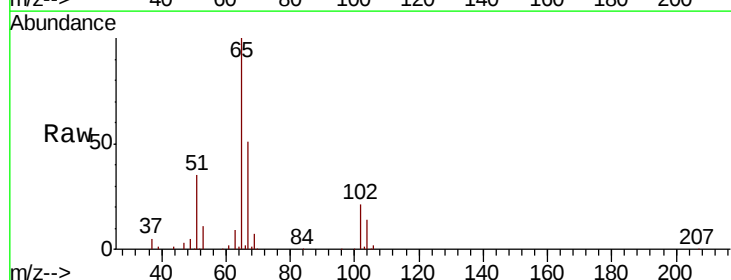
Acq: 21 May 2020 16:37

Tgt Ion: 65 Resp: 197456

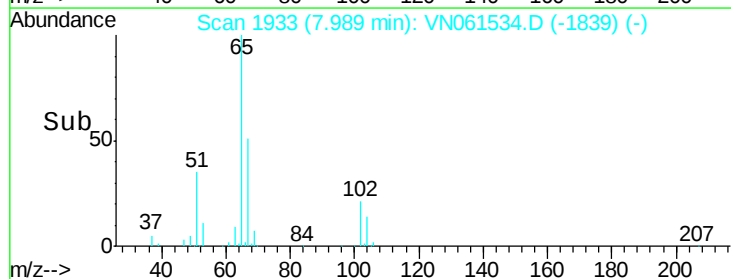
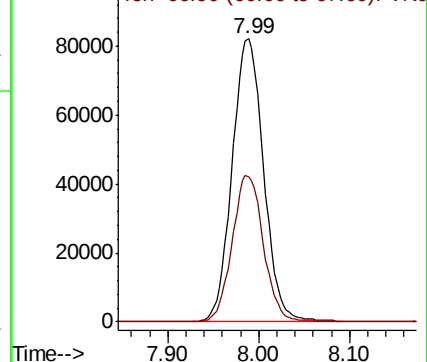
Ion Ratio Lower Upper

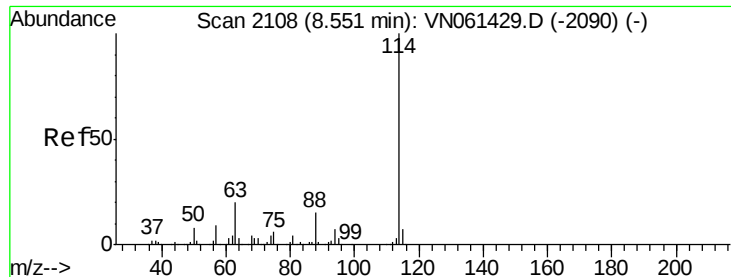
65 100

67 51.3 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC

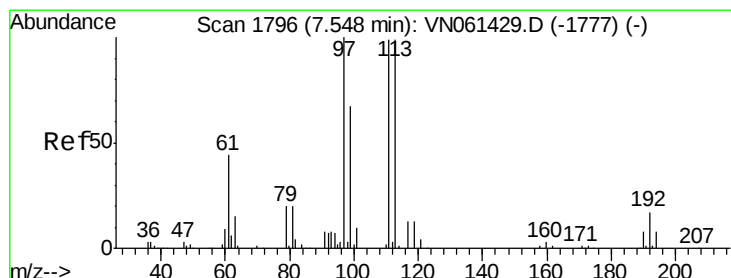
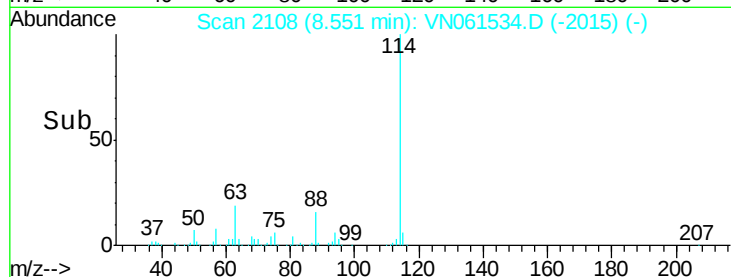
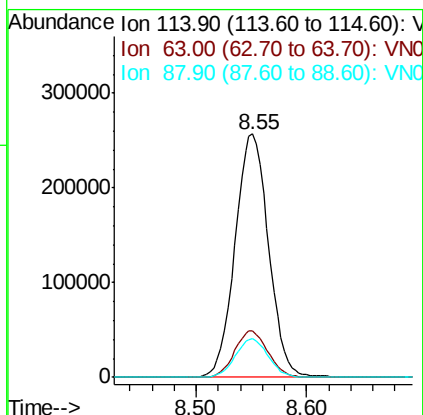
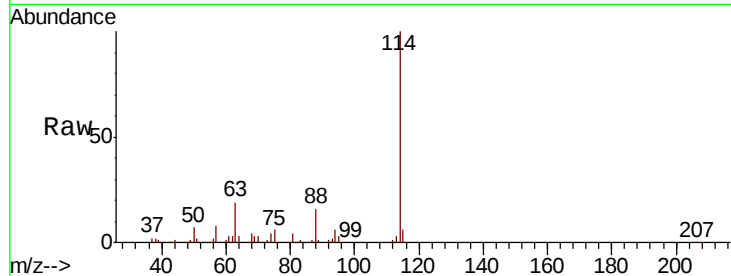




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061534.D
 Acq: 21 May 2020 16:37

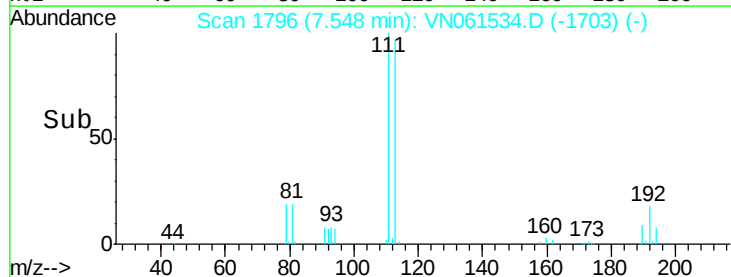
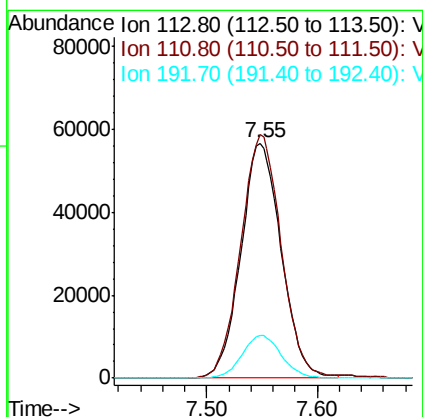
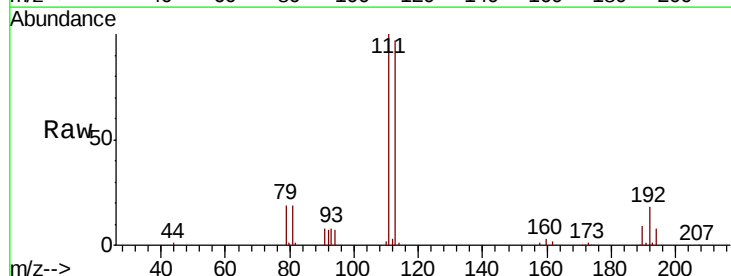
Instrument :
 MSVOA_N
 ClientSampleId :

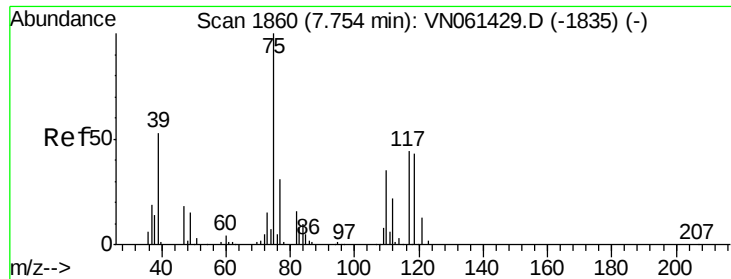
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	40.8
88	15.7	0.0	30.8



#35
 Dibromofluoromethane
 Concen: 50.794 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061534.D
 Acq: 21 May 2020 16:37

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.9	80.6	121.0
192	17.8	13.2	19.8

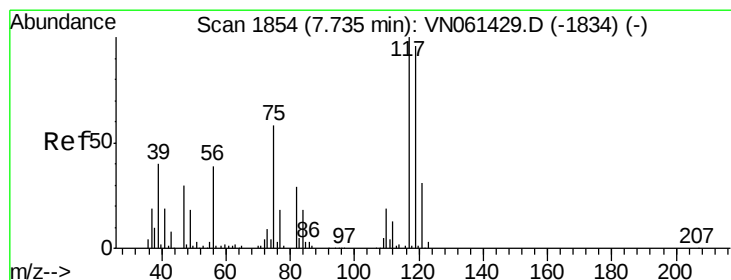
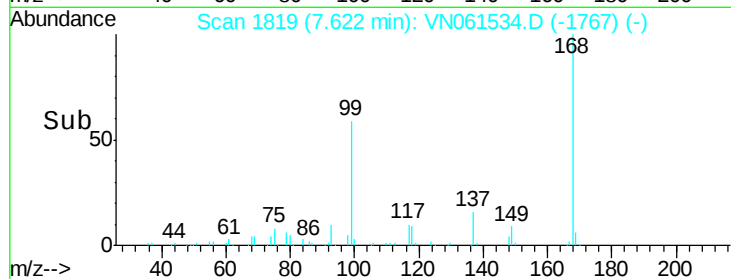
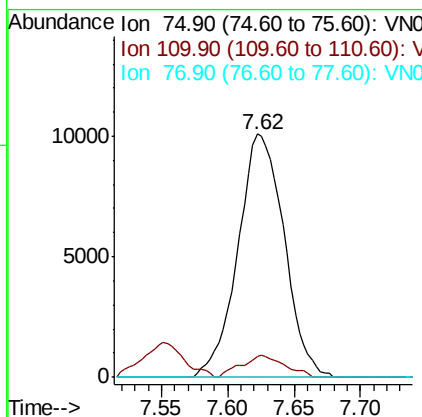
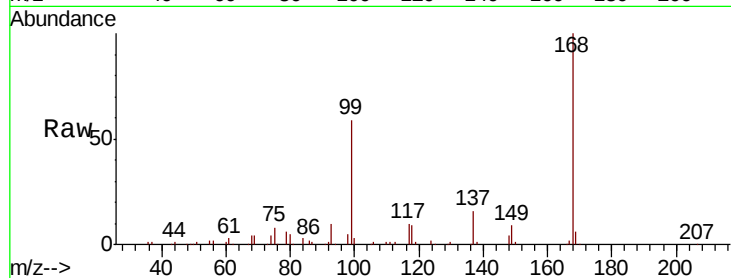




#36
 1,1-Dichloropropene
 Concen: 4.845 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061534.D
 Acq: 21 May 2020 16:37

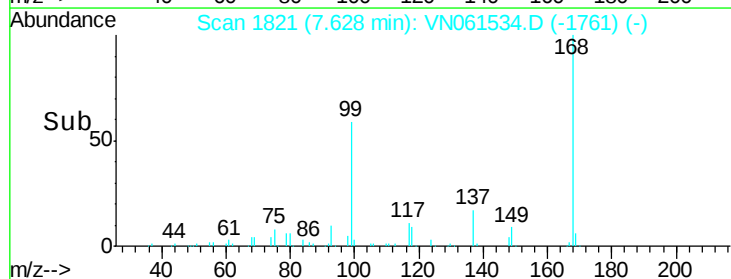
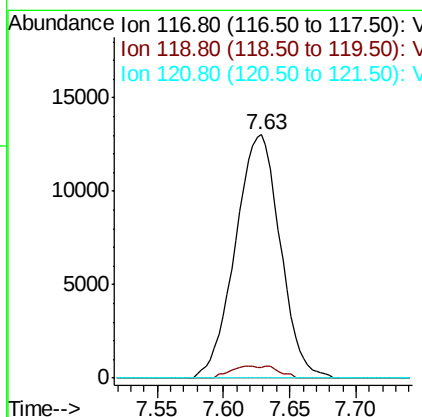
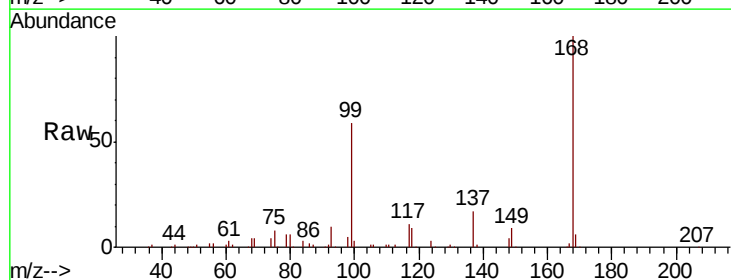
Instrument :
 MSVOA_N
 ClientSampled :

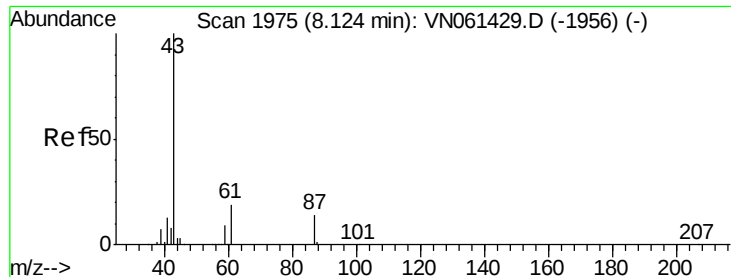
Tot Ion	75	Resp	24462
Ion Ratio	Lower	Upper	
75	100		
110	8.5	17.3	51.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.594 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.11 min
 Lab File: VN061534.D
 Acq: 21 May 2020 16:37

Tgt Ion	117	Resp	30655
Ion Ratio	Lower	Upper	
117	100		
119	4.6	77.0	115.6#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 8.864 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

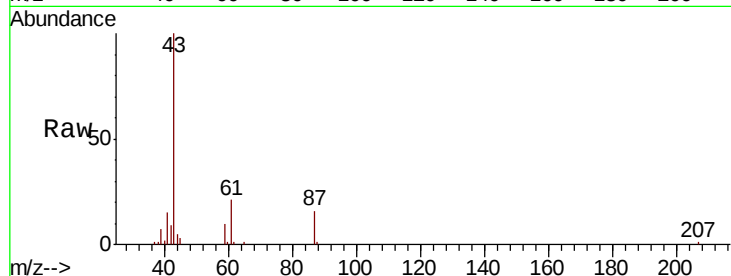
Tot Ion: 43 Resp: 70794

Ion Ratio Lower Upper

43 100

61 21.4 23.0 34.4#

87 15.7 11.6 17.4

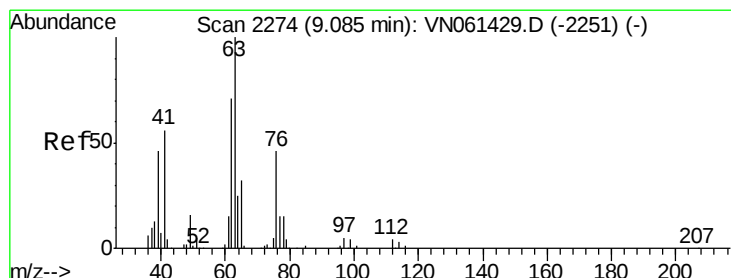
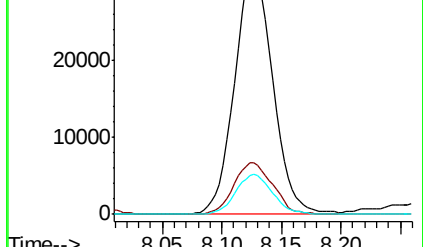
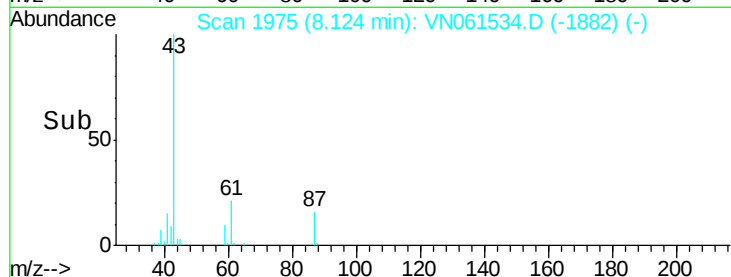


Abundance Ion 43.00 (42.70 to 43.70): VN061534.D (-1882) (-)

Ion 61.00 (60.70 to 61.70): VN061534.D (-1882) (-)

Ion 87.00 (86.70 to 87.70): VN061534.D (-1882) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.455 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN061534.D

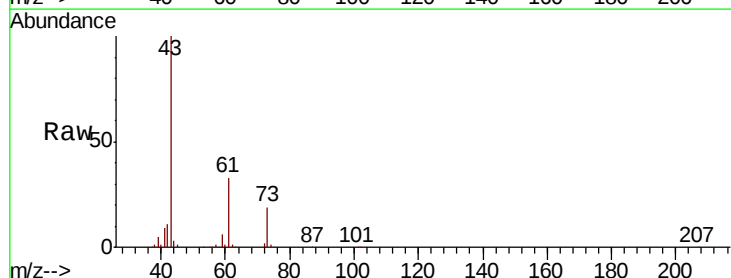
Acq: 21 May 2020 16:37

Tgt Ion: 63 Resp: 1734

Ion Ratio Lower Upper

63 100

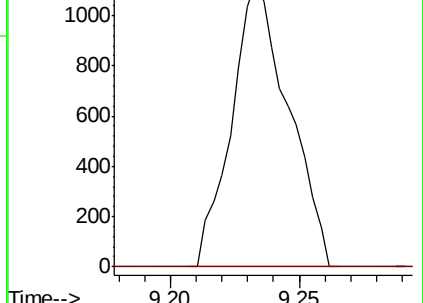
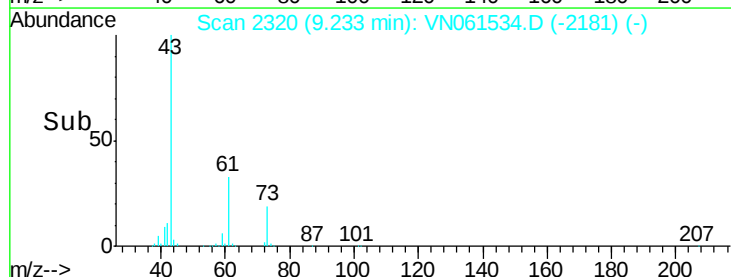
65 0.0 25.2 37.8#

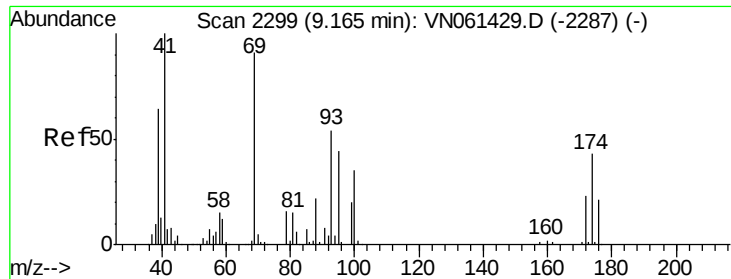


Abundance Ion 62.90 (62.60 to 63.60): VN061534.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN061534.D (-2181) (-)

Time-->

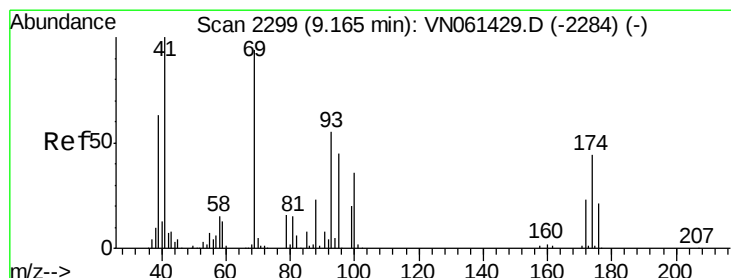
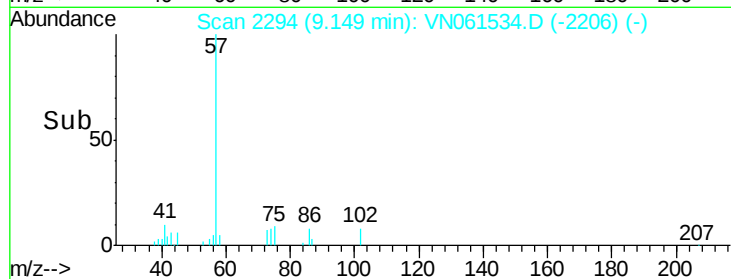
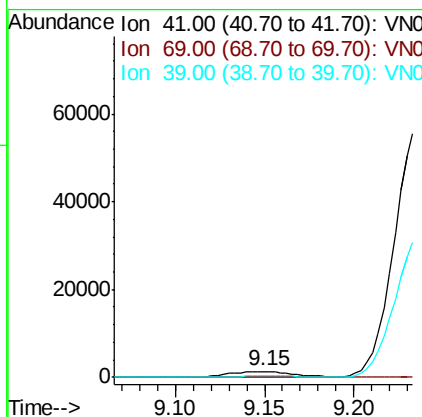
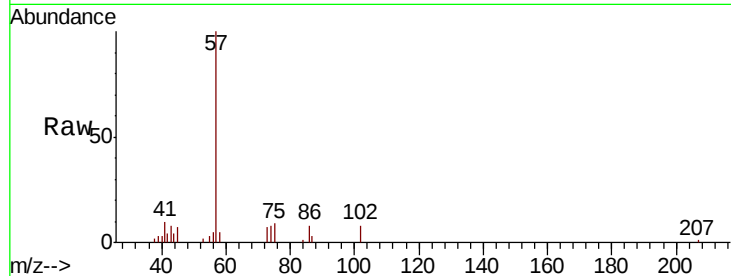




#48
Methvl methacrylate
Concen: 0.894 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN061534.D
Acq: 21 May 2020 16:37

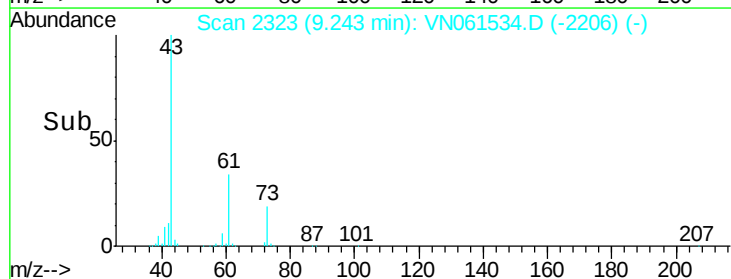
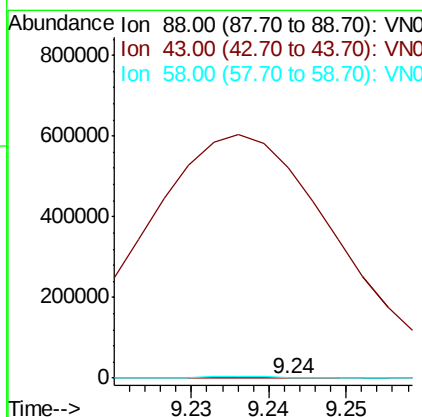
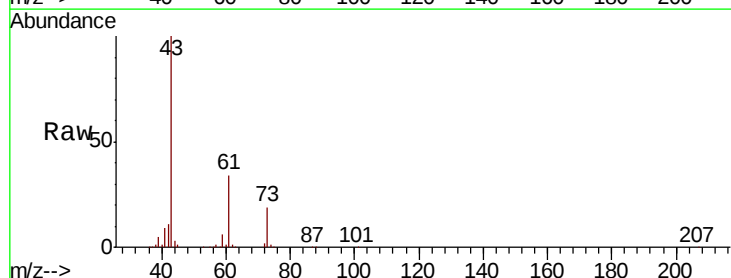
Instrument :
MSVOA_N
ClientSampleId :

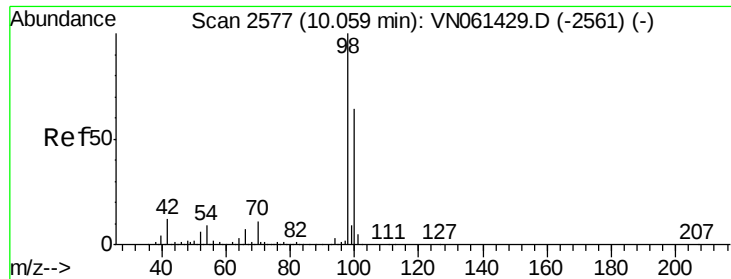
Tot Ion: 41 Resp: 3299
Ion Ratio Lower Upper
41 100
69 0.0 75.3 112.9#
39 0.0 52.6 79.0#



#49
1,4-Dioxane
Concen: Below Cal
RT: 9.24 min Scan# 2323
Delta R.T. 0.08 min
Lab File: VN061534.D
Acq: 21 May 2020 16:37

Tgt Ion: 88 Resp: 100
Ion Ratio Lower Upper
88 100
43 1125669.0 26.3 39.5#
58 5441.0 54.1 81.1#





#50

Toluene-d8

Concen: 51.623 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

Instrument :

MSVOA_N

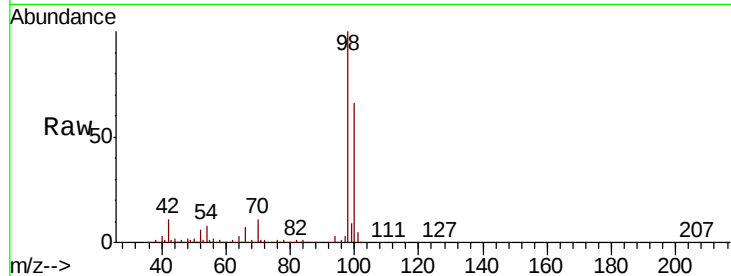
ClientSampled :

Tot Ion: 98 Resp: 677332

Ion Ratio Lower Upper

98 100

100 65.9 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

400000

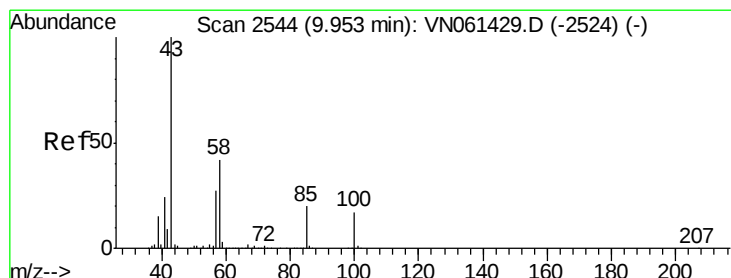
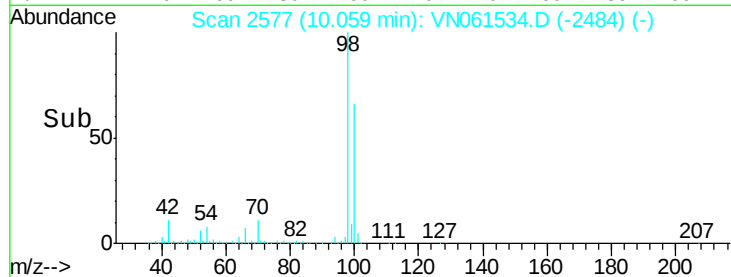
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.435 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN061534.D

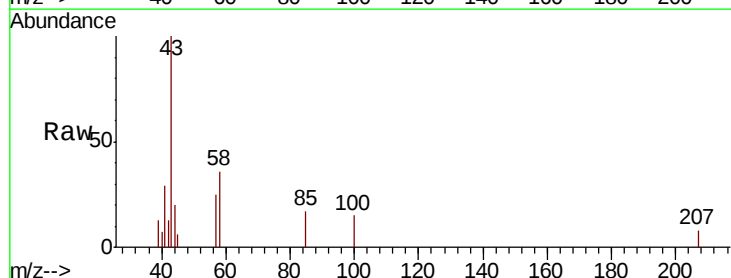
Acq: 21 May 2020 16:37

Tgt Ion: 43 Resp: 6241

Ion Ratio Lower Upper

43 100

58 40.0 33.4 50.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

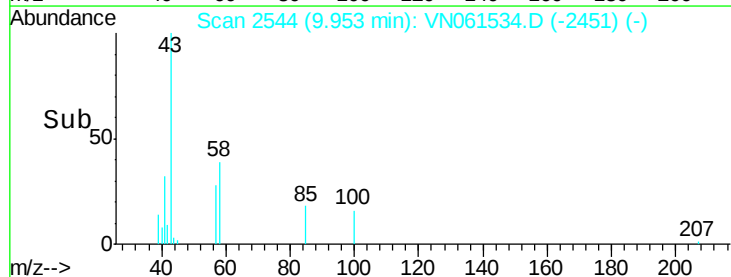
Ion 58.00 (57.70 to 58.70): VN0

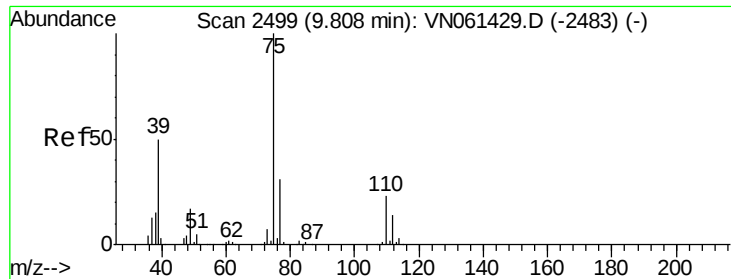
10000

5000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.912 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

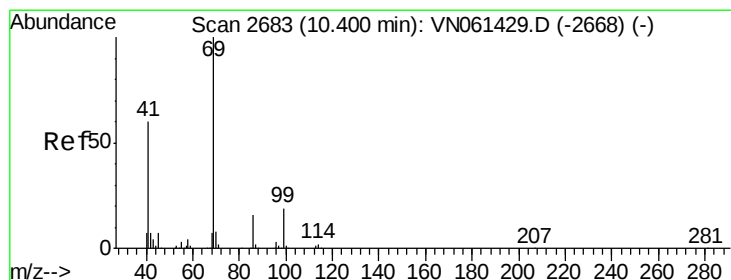
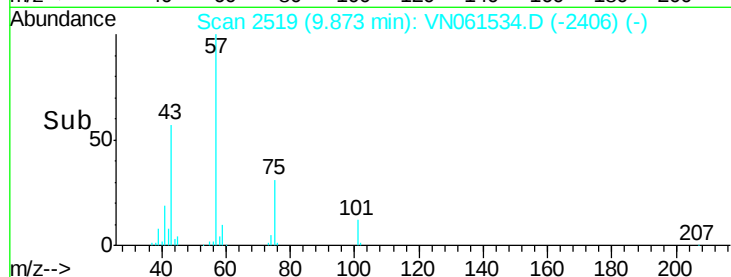
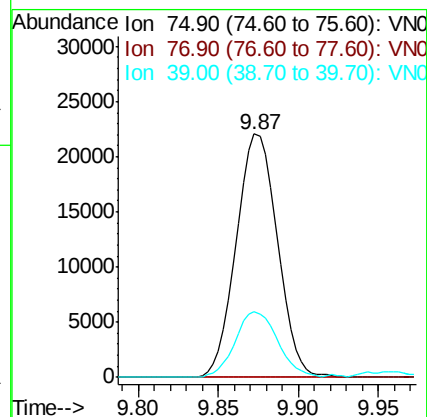
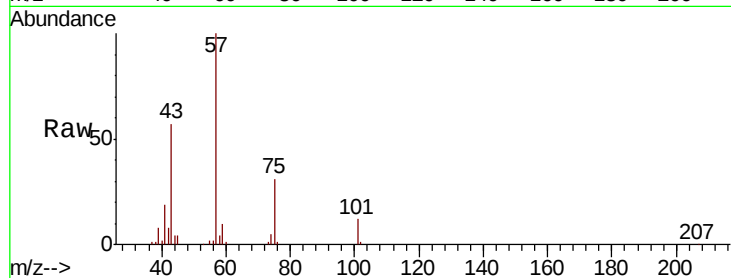
Tot Ion: 75 Resp: 38748

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 27.0 39.8 59.6#



#56

Ethyl methacrylate

Concen: 0.207 ug/l

RT: 10.52 min Scan# 2720

Delta R.T. 0.12 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

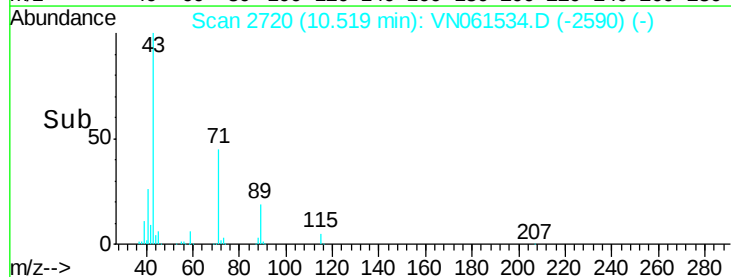
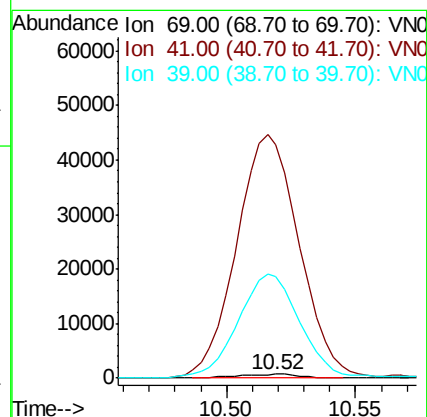
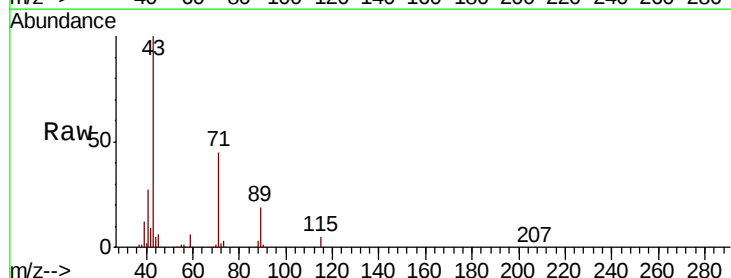
Tgt Ion: 69 Resp: 1195

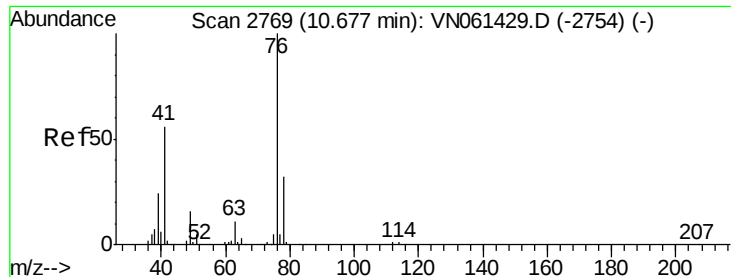
Ion Ratio Lower Upper

69 100

41 6344.5 48.3 72.5#

39 2679.1 30.2 45.2#

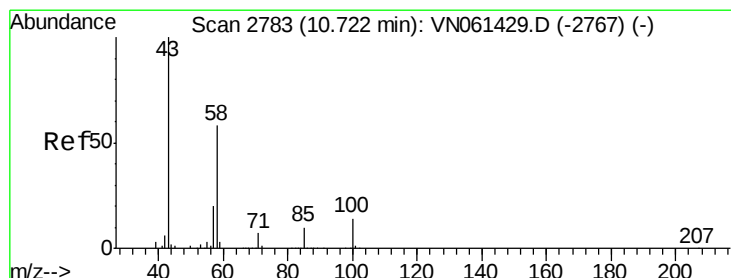
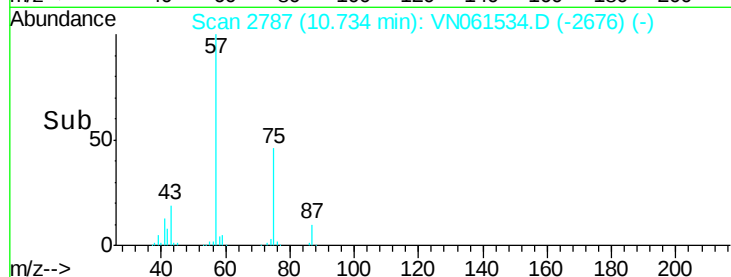
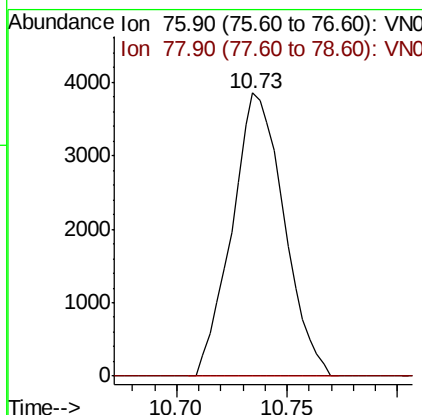
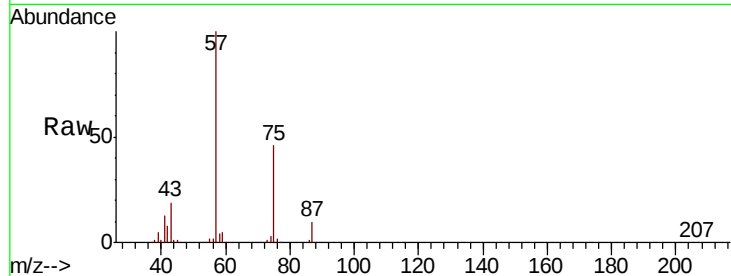




#57
 1,3-Dichloropropane
 Concen: 0.989 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.06 min
 Lab File: VN061534.D
 Acq: 21 May 2020 16:37

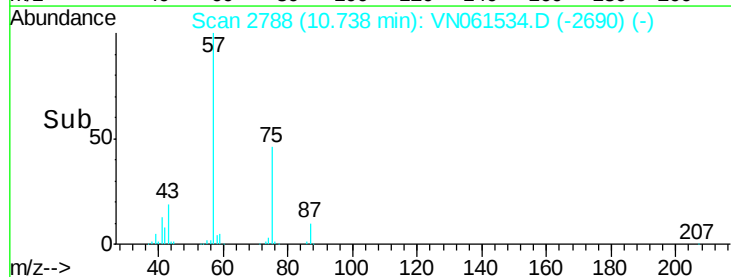
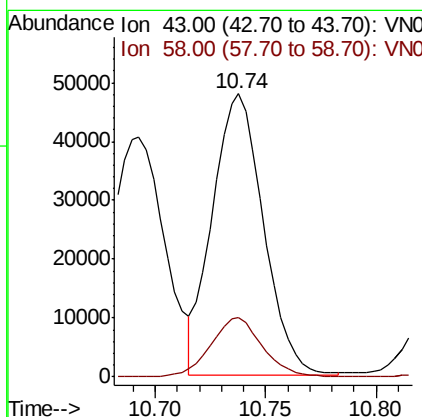
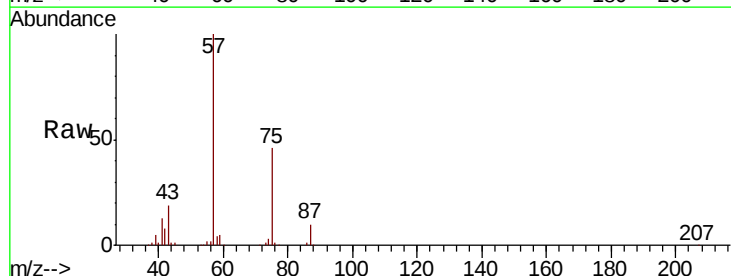
Instrument :
 MSVOA_N
 ClientSampled :

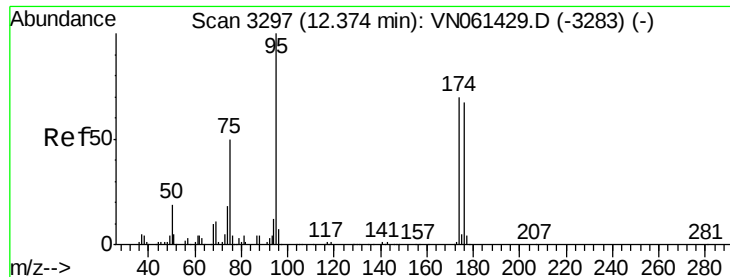
Tot Ion: 76 Resp: 6310
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 24.283 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061534.D
 Acq: 21 May 2020 16:37

Tgt Ion: 43 Resp: 76432
 Ion Ratio Lower Upper
 43 100
 58 21.3 29.2 87.6#





#62

4-Bromofluorobenzene

Concen: 52.587 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

Instrument :

MSVOA_N

ClientSampled :

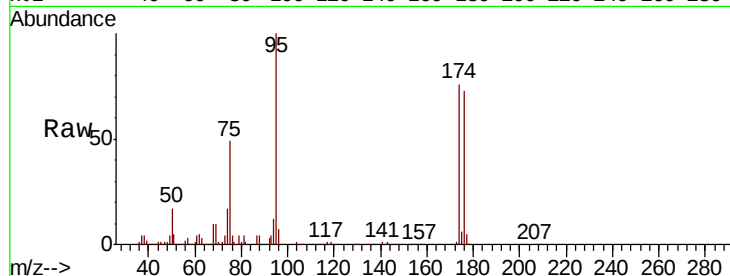
Tot Ion: 95 Resp: 257784

Ion Ratio Lower Upper

95 100

174 75.7 0.0 141.2

176 72.3 0.0 137.6

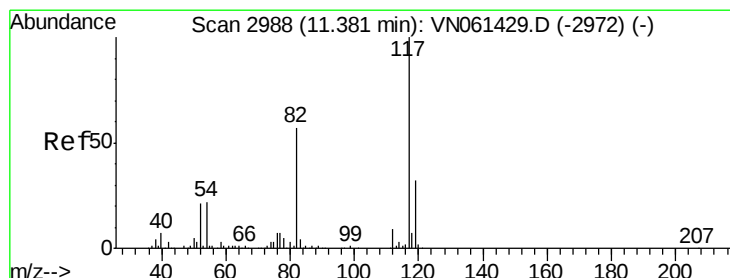
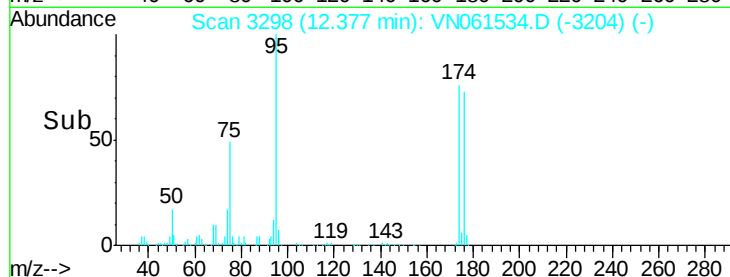
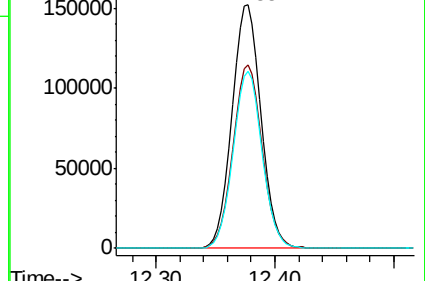


Abundance Ion 94.90 (94.60 to 95.60): VN061429.D (-3283) (-)

Ion 173.80 (173.50 to 174.50): VN061429.D (-3283) (-)

Ion 175.80 (175.50 to 176.50): VN061429.D (-3283) (-)

12.38



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

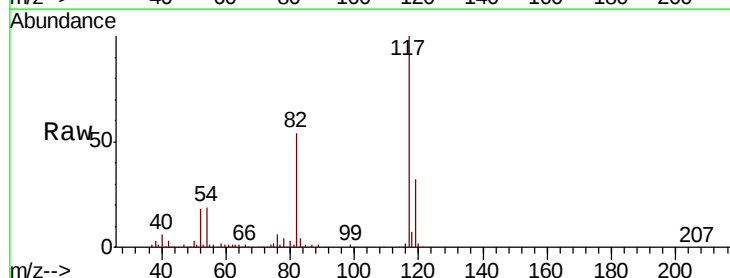
Tgt Ion: 117 Resp: 549611

Ion Ratio Lower Upper

117 100

82 53.6 45.2 67.8

119 31.9 25.3 37.9

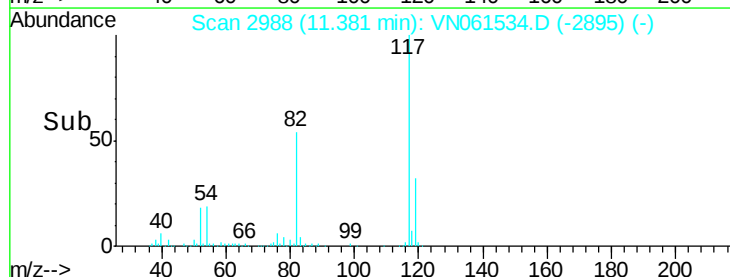
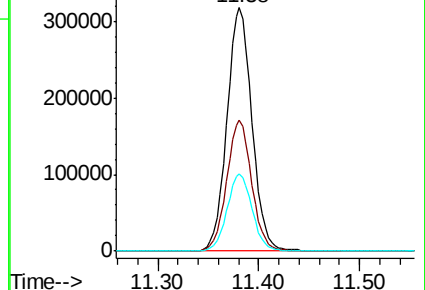


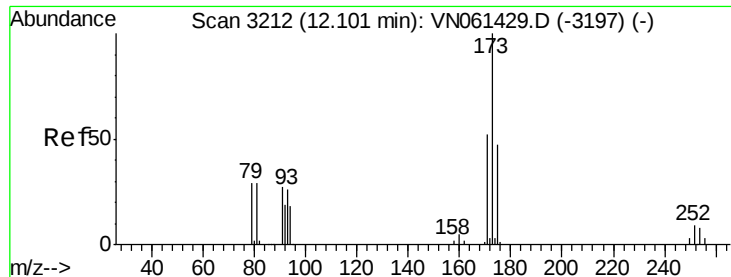
Abundance Ion 116.90 (116.60 to 117.60): VN061429.D (-2972) (-)

Ion 82.00 (81.70 to 82.70): VN061429.D (-2972) (-)

Ion 118.90 (118.60 to 119.60): VN061429.D (-2972) (-)

11.38





#71

Bromoform

Concen: 2.601 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

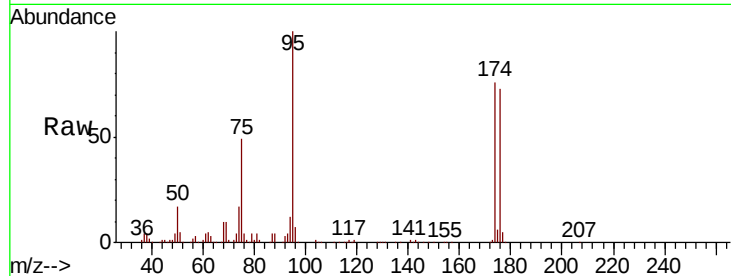
Tot Ion:173 Resp: 1891

Ion Ratio Lower Upper

173 100

175 686.3 23.9 71.8#

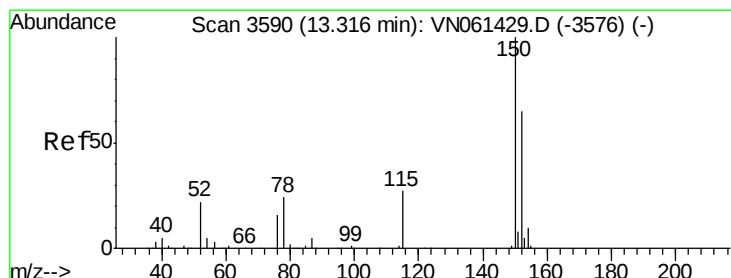
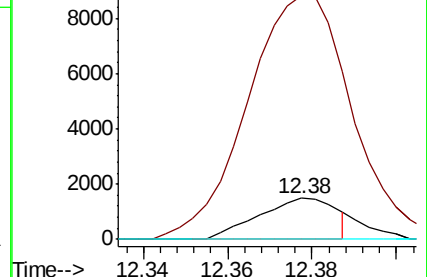
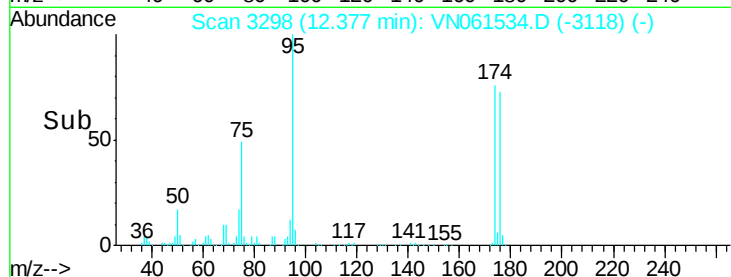
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

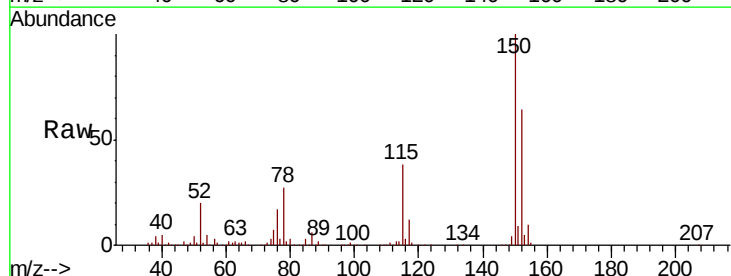
Tgt Ion:152 Resp: 239344

Ion Ratio Lower Upper

152 100

115 60.3 30.9 92.5

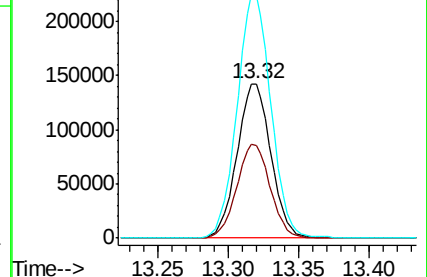
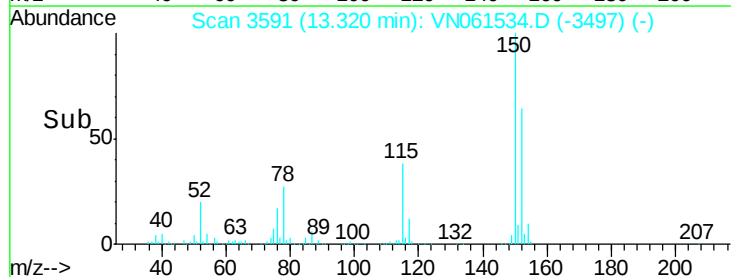
150 158.1 0.0 349.2

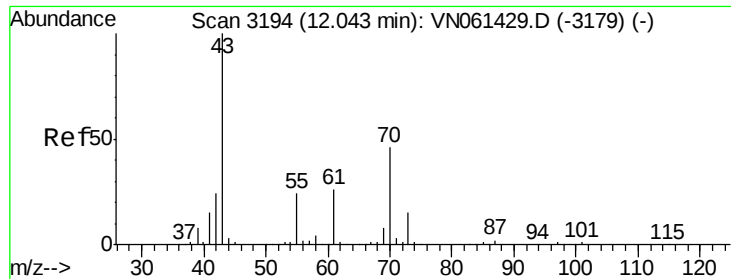


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.242 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1703

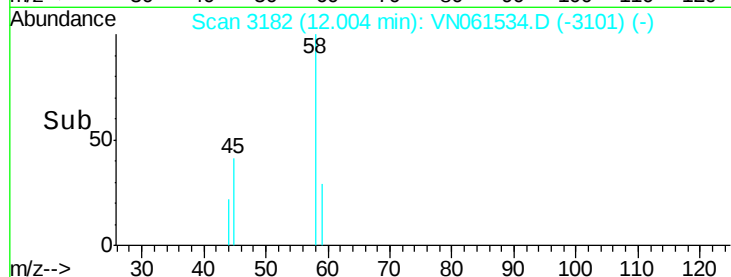
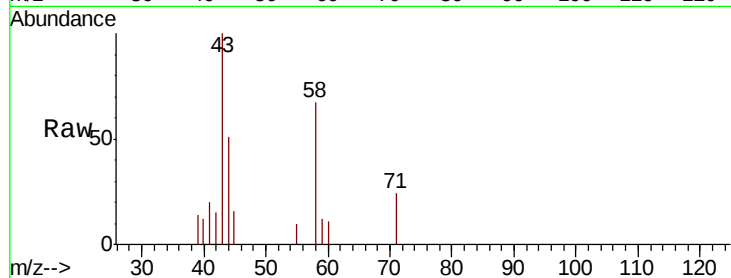
Ion Ratio Lower Upper

43 100

70 0.0 37.0 55.4#

55 7.9 19.5 29.3#

61 0.0 20.8 31.2#

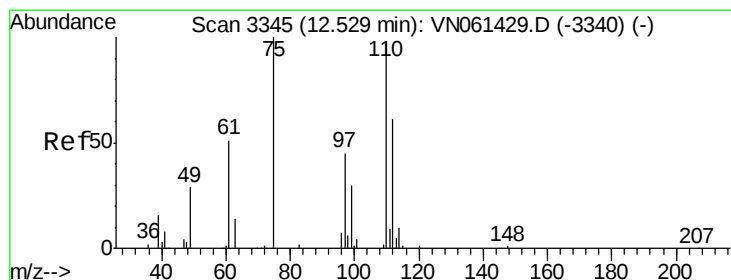
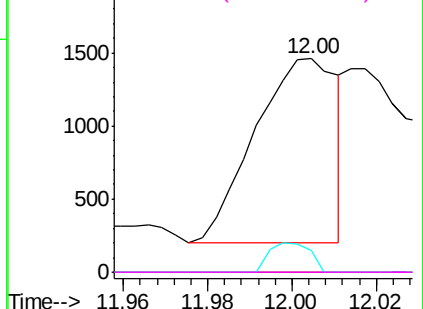


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.105 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061534.D

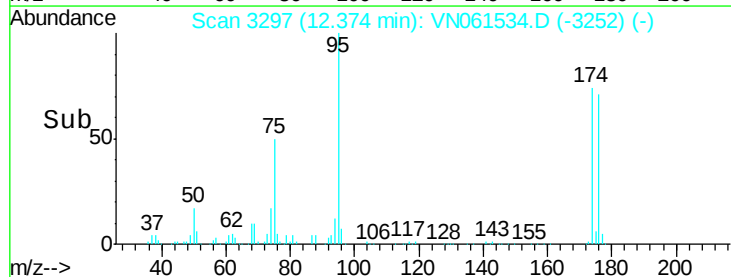
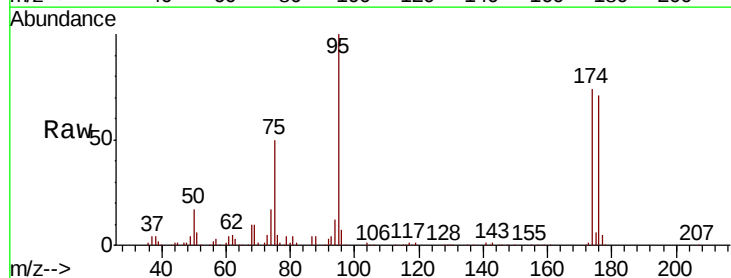
Acq: 21 May 2020 16:37

Tgt Ion: 75 Resp: 128931

Ion Ratio Lower Upper

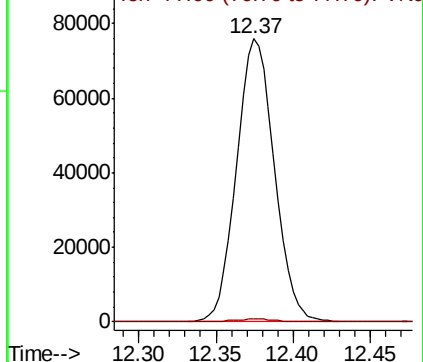
75 100

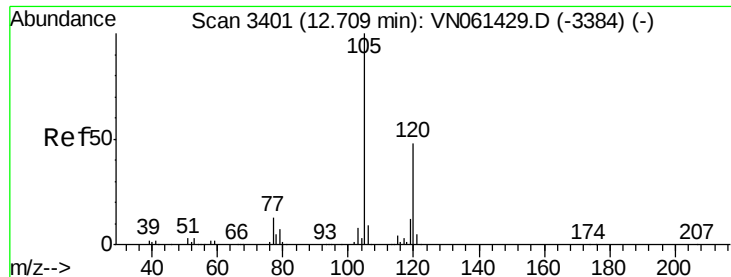
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.827 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

Instrument :

MSVOA_N

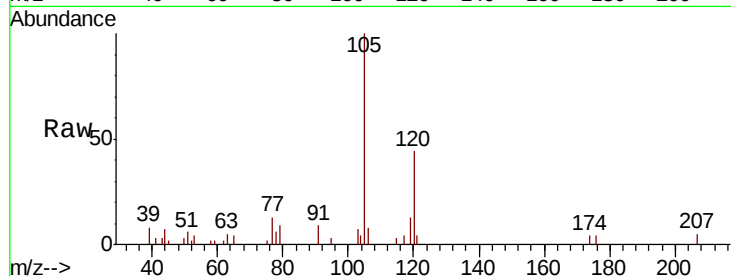
ClientSampled :

Tot Ion:105 Resp: 13005

Ion Ratio Lower Upper

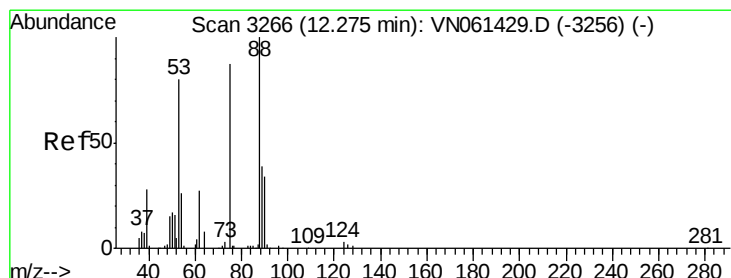
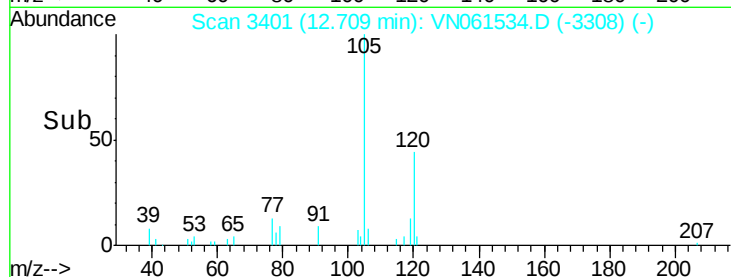
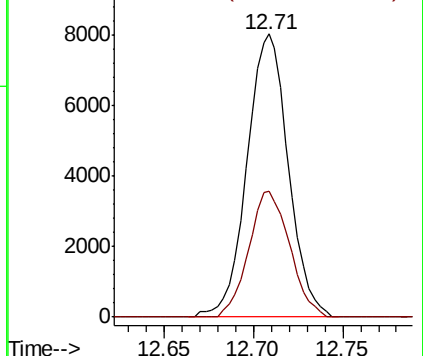
105 100

120 44.1 24.1 72.4



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: 66.597 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061534.D

Acq: 21 May 2020 16:37

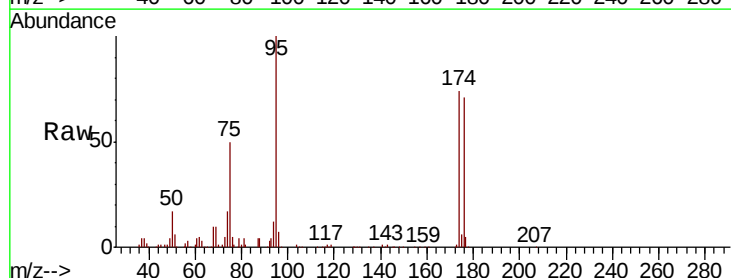
Tgt Ion: 75 Resp: 128931

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

