

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\
 Data File : VN060829.D
 Acq On : 2 Apr 2020 18:12
 Operator : JC/MD
 Sample : L2101-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

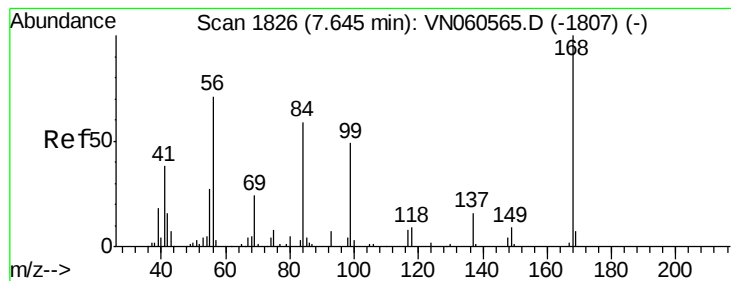
Quant Time: Apr 03 07:44:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	206315	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	343219	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	323916	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	143867	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	133863	47.26	ug/l	0.00
Spiked Amount			Recovery	=	94.52%	
35) Dibromofluoromethane	7.56	113	102431	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
50) Toluene-d8	10.08	98	426219	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
62) 4-Bromofluorobenzene	12.40	95	157284	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	345	0.828	ug/l #	72
16) Acetone	3.78	43	479959	478.411	ug/l	100
18) Methyl Acetate	4.00	43	35536	12.584	ug/l #	54
20) Methylene Chloride	4.52	84	6900	2.796	ug/l	98
25) 2-Butanone	6.81	43	3549	2.186	ug/l	97
31) Cyclohexane	7.64	56	4075	0.893	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16148	4.859	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19682	6.608	ug/l #	16
43) Isopropyl Acetate	8.14	43	52591	8.880	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	916	0.346	ug/l #	43
48) Methyl methacrylate	9.16	41	2865	1.087	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4137	1.228	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	20722	4.944	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3302	0.816	ug/l #	42
59) 2-Hexanone	10.75	43	49931	20.568	ug/l #	52
74) N-amyl acetate	12.02	43	2950	0.591	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	80307	25.869	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	80307	66.440	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

Instrument :

MSVOA_N

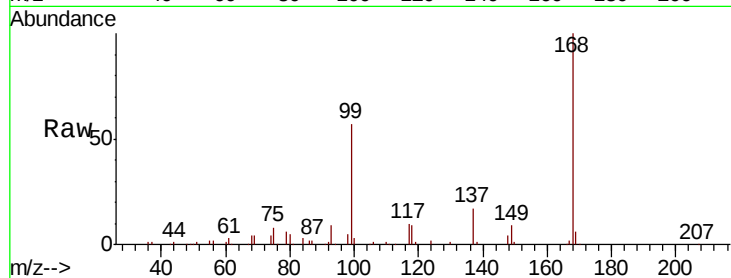
ClientSampleId :

Tot Ion:168 Resp: 206315

Ion Ratio Lower Upper

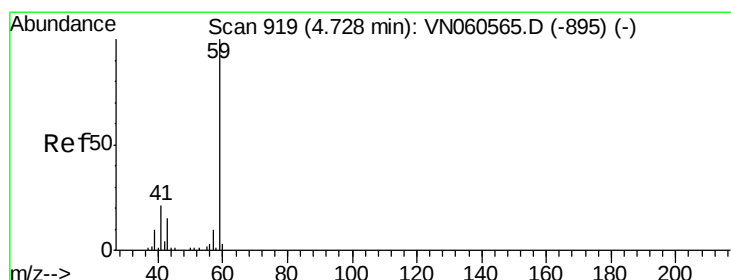
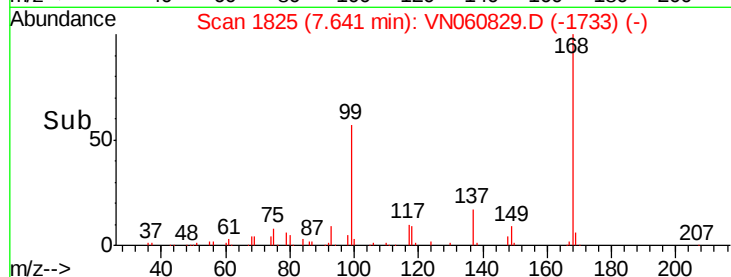
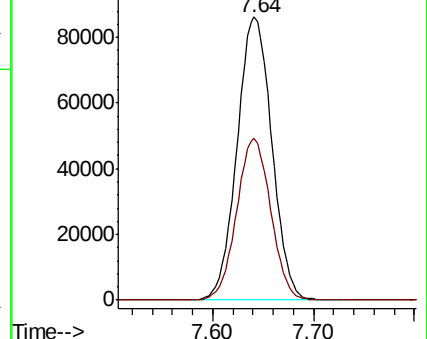
168 100

99 57.0 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060829.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060829.D (-1733) (-)



#11

Tert butyl alcohol

Concen: 0.828 ug/l

RT: 4.72 min Scan# 917

Delta R.T. -0.01 min

Lab File: VN060829.D

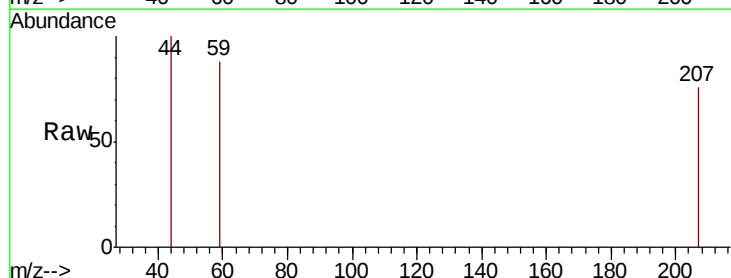
Acq: 2 Apr 2020 18:12

Tgt Ion: 59 Resp: 345

Ion Ratio Lower Upper

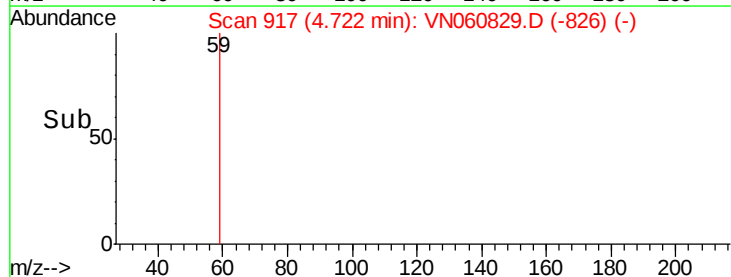
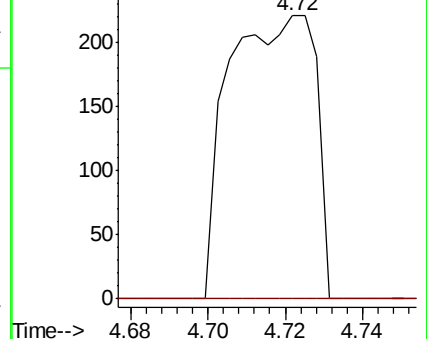
59 100

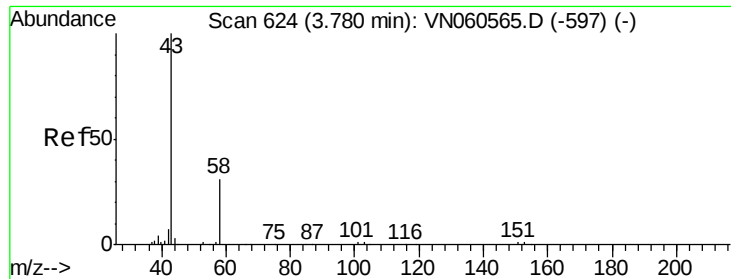
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN060829.D (-826) (-)

Ion 57.00 (56.70 to 57.70): VN060829.D (-826) (-)

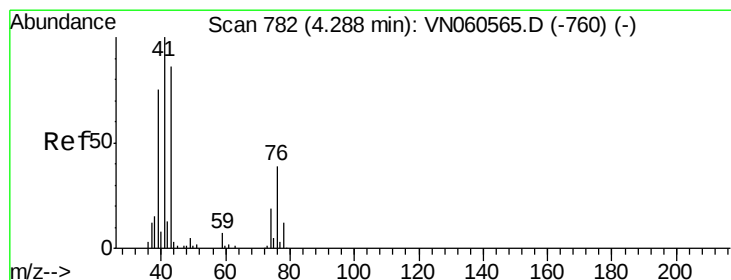
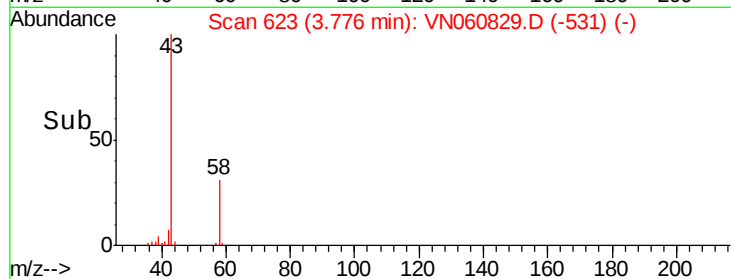
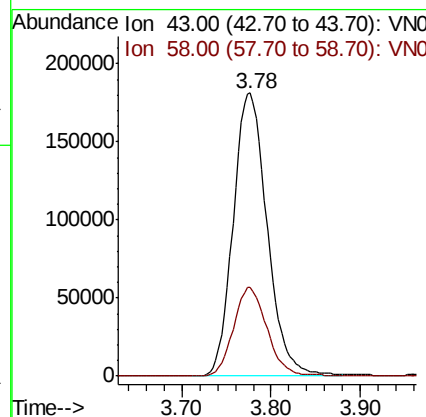
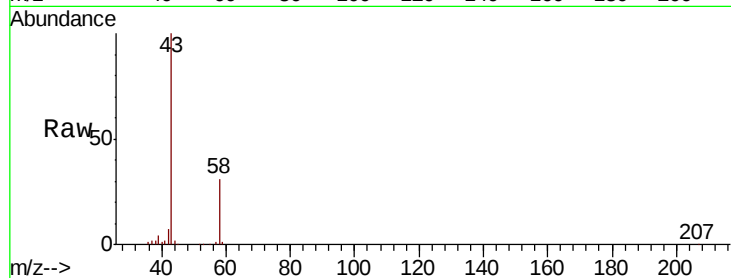




#16
Acetone
Concen: 478.411 ug/l
RT: 3.78 min Scan# 623
Delta R.T. -0.00 min
Lab File: VN060829.D
Acq: 2 Apr 2020 18:12

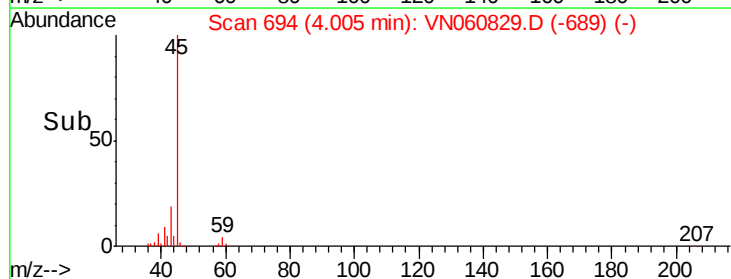
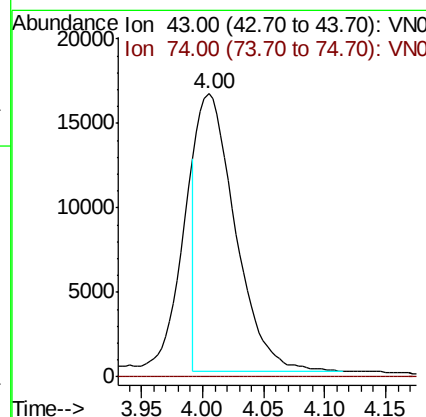
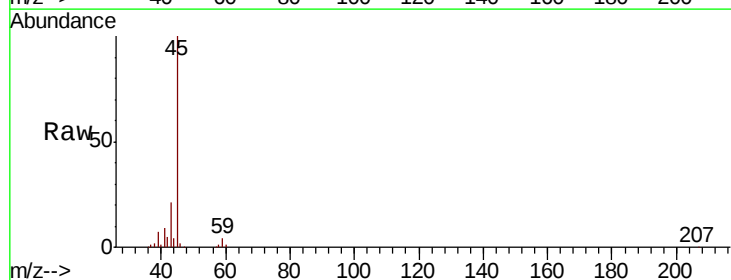
Instrument :
MSVOA_N
ClientSampled :

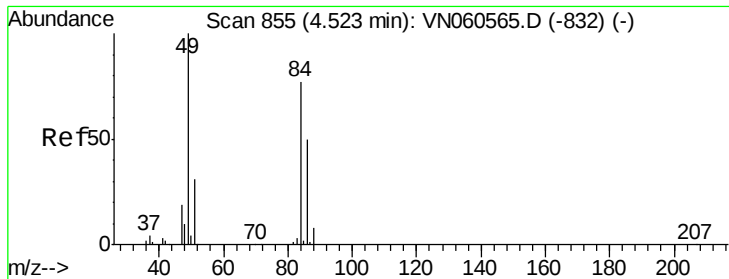
Tot Ion: 43 Resp: 479959
Ion Ratio Lower Upper
43 100
58 31.4 25.1 37.7



#18
Methyl Acetate
Concen: 12.584 ug/l
RT: 4.00 min Scan# 694
Delta R.T. -0.28 min
Lab File: VN060829.D
Acq: 2 Apr 2020 18:12

Tgt Ion: 43 Resp: 35536
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#





#20

Methylene Chloride

Concen: 2.796 ug/l

RT: 4.52 min Scan# 855

Delta R.T. -0.00 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 6900

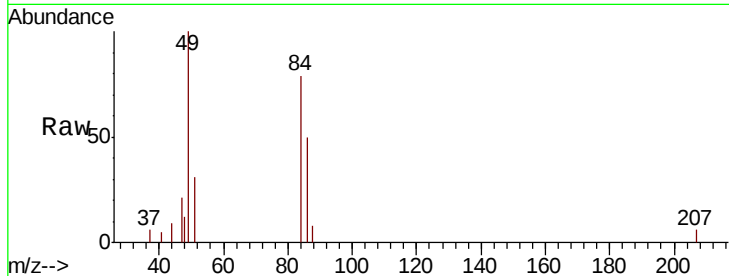
Ion Ratio Lower Upper

84 100

49 125.9 103.3 154.9

51 39.6 31.6 47.4

86 62.5 52.0 78.0

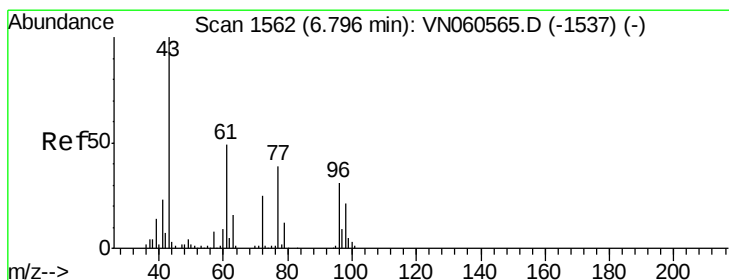
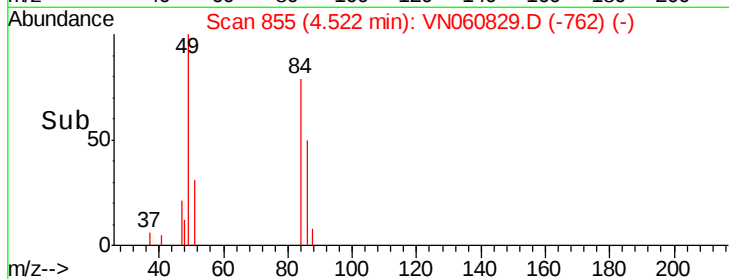
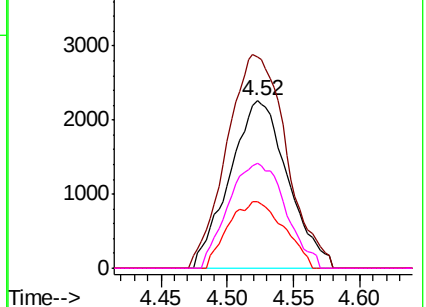


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.186 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060829.D

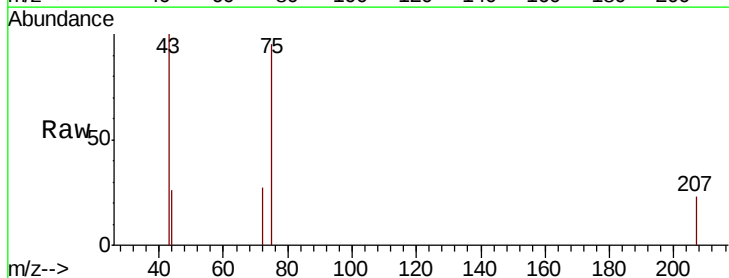
Acq: 2 Apr 2020 18:12

Tgt Ion: 43 Resp: 3549

Ion Ratio Lower Upper

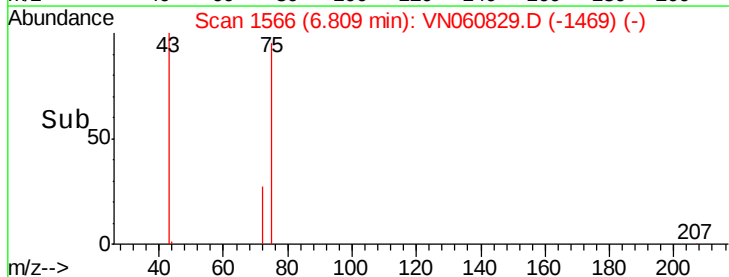
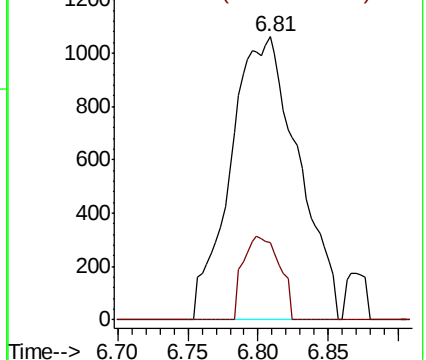
43 100

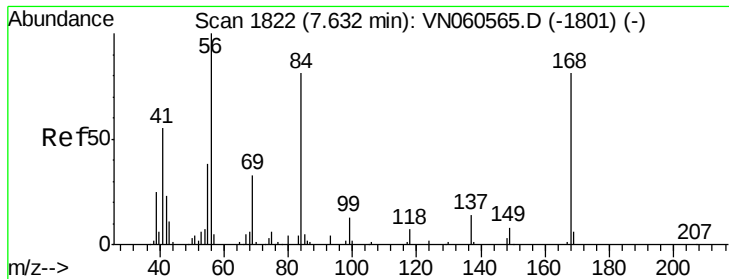
72 27.1 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

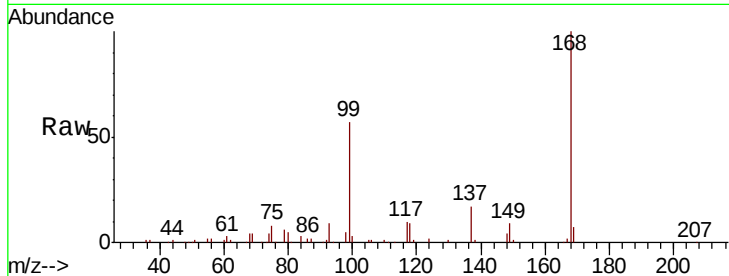




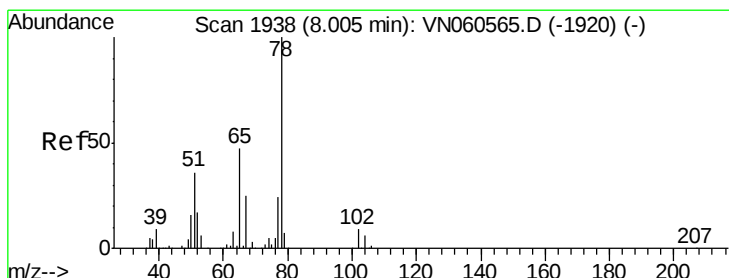
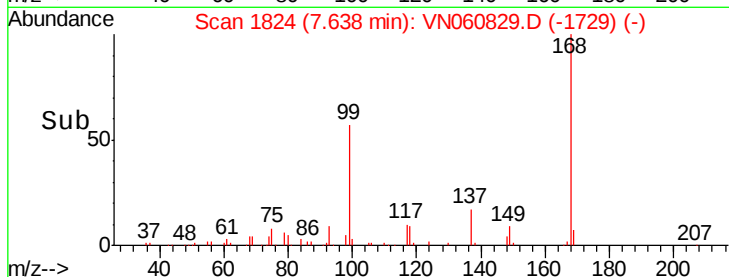
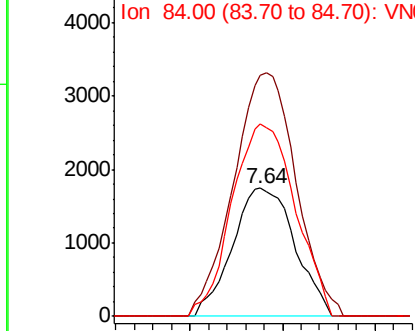
#31
Cyclohexane
Concen: 0.893 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060829.D
Acq: 2 Apr 2020 18:12

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 4075
Ion Ratio Lower Upper
56 100
69 187.9 26.6 40.0#
84 150.3 64.3 96.5#

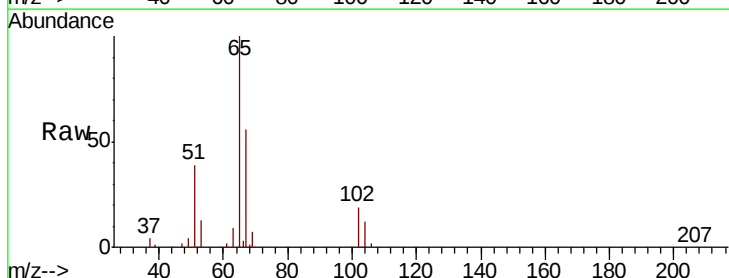


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

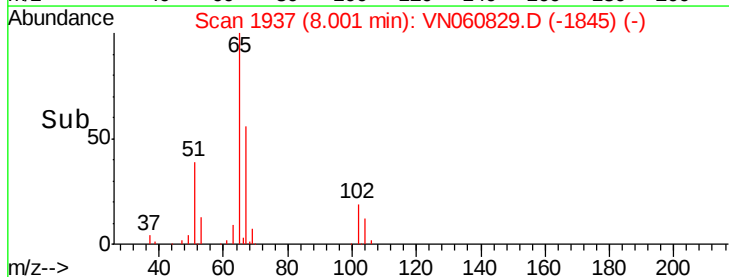
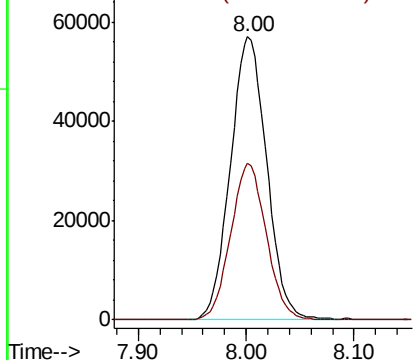


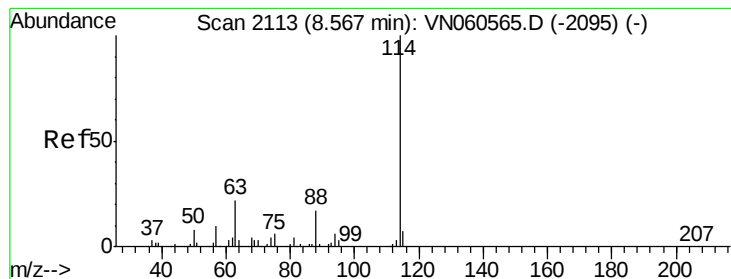
#33
1,2-Dichloroethane-d4
Concen: 47.264 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060829.D
Acq: 2 Apr 2020 18:12

Tgt Ion: 65 Resp: 133863
Ion Ratio Lower Upper
65 100
67 54.1 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

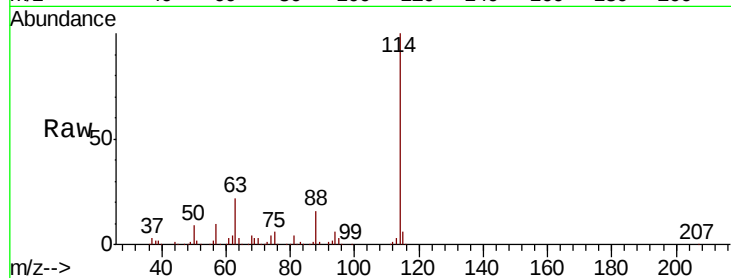
Tot Ion:114 Resp: 343219

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.8

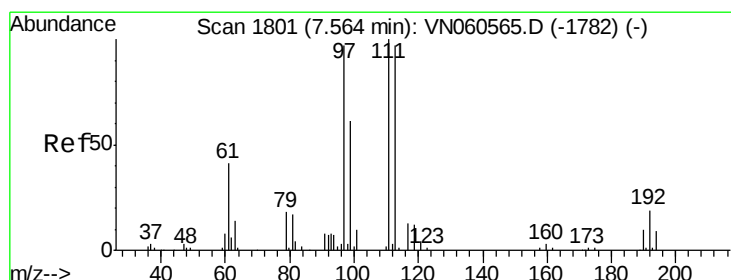
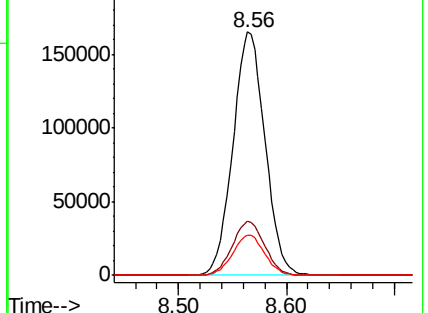
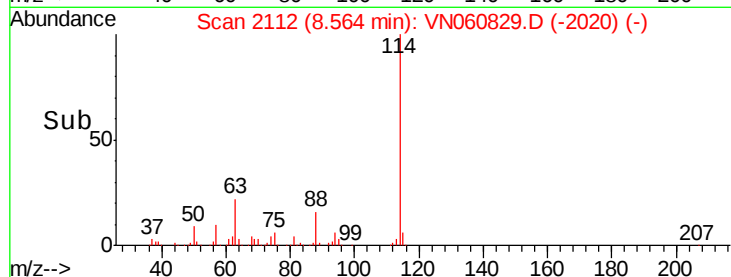
88 16.5 0.0 33.0



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: 49.356 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

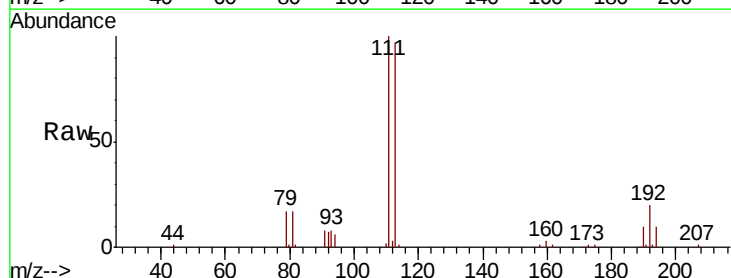
Tgt Ion:113 Resp: 102431

Ion Ratio Lower Upper

113 100

111 103.8 82.9 124.3

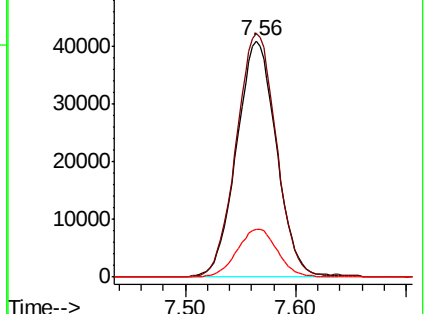
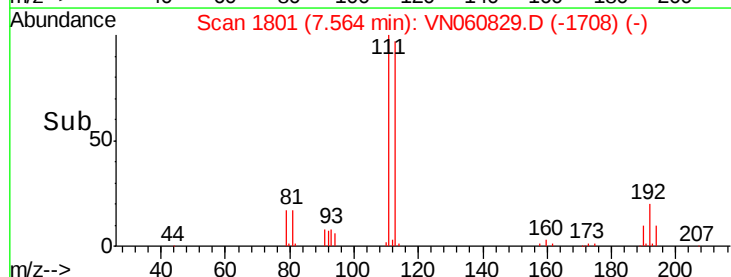
192 20.4 15.8 23.8

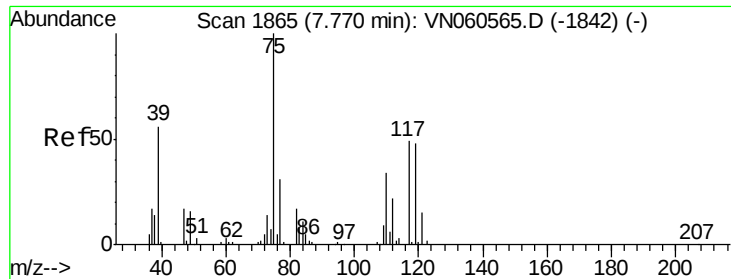


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.859 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.13 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

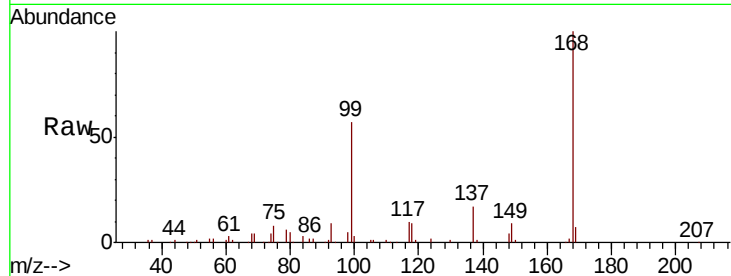
Tot Ion: 75 Resp: 16148

Ion Ratio Lower Upper

75 100

110 7.8 16.9 50.6#

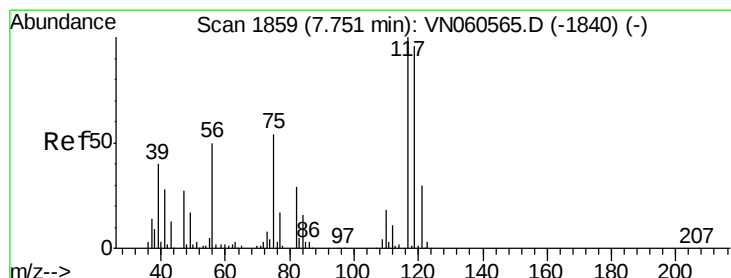
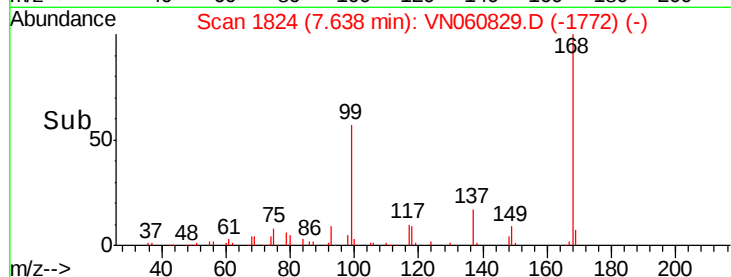
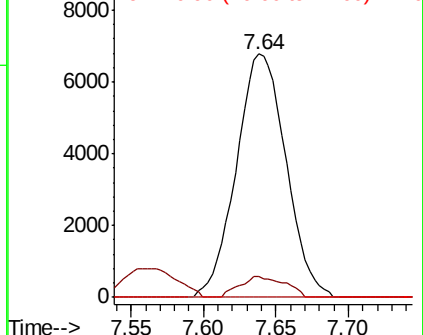
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN060829.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060829.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060829.D (-1772) (-)



#38

Carbon Tetrachloride

Concen: 6.608 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

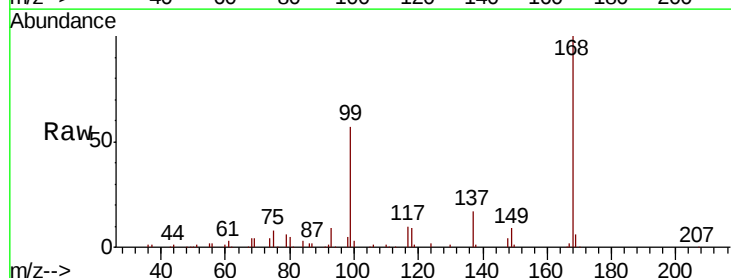
Tgt Ion: 117 Resp: 19682

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.2#

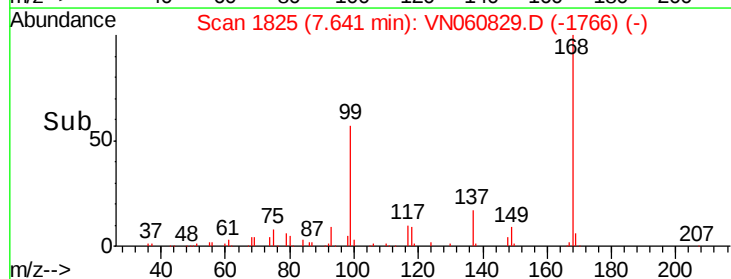
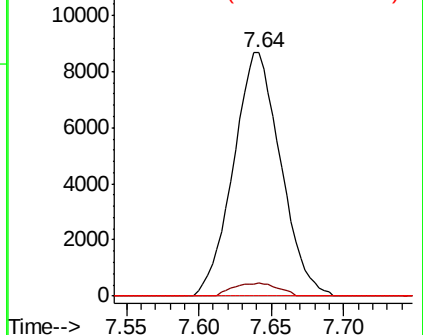
121 0.0 23.7 35.5#

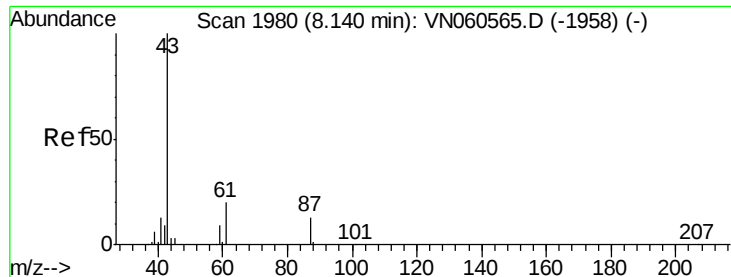


Abundance Ion 116.80 (116.50 to 117.50): VN060829.D (-1766) (-)

Ion 118.80 (118.50 to 119.50): VN060829.D (-1766) (-)

Ion 120.80 (120.50 to 121.50): VN060829.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 8.880 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

Instrument :

MSVOA_N

ClientSampled :

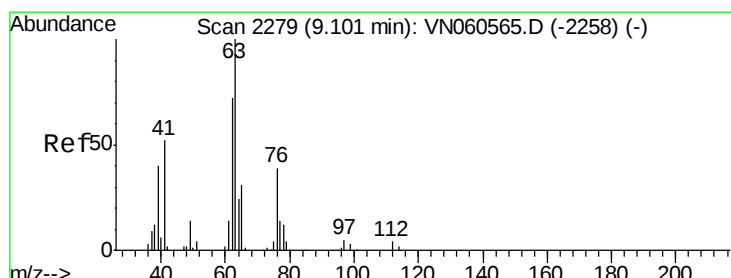
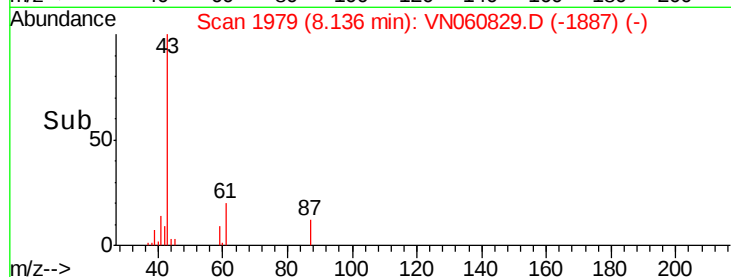
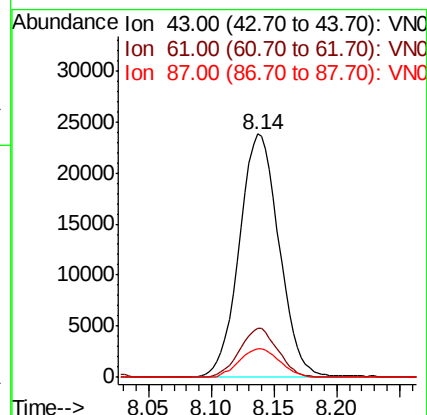
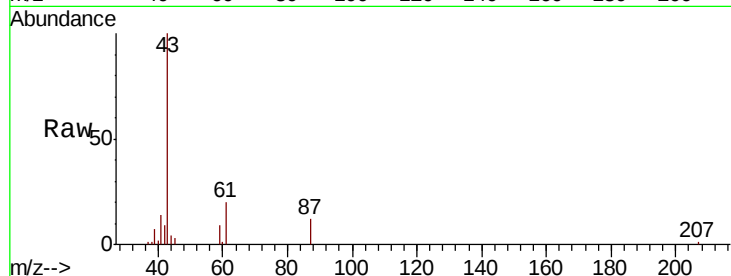
Tot Ion: 43 Resp: 52591

Ion Ratio Lower Upper

43 100

61 19.3 20.7 31.1#

87 11.9 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.346 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060829.D

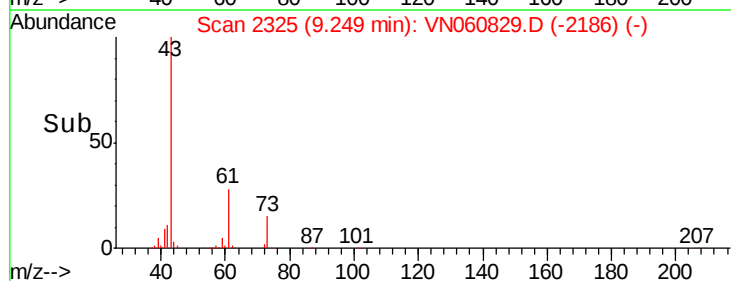
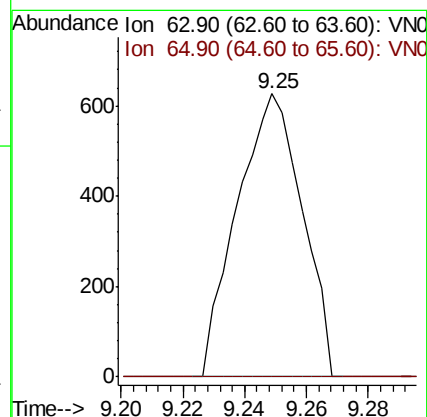
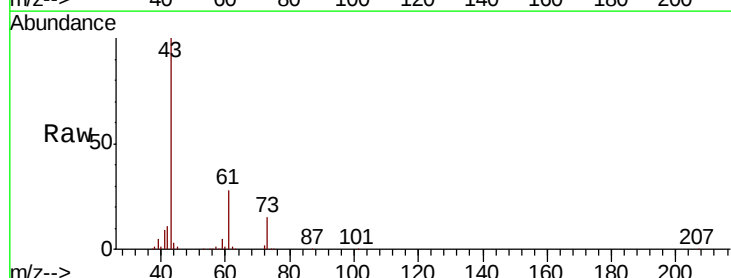
Acq: 2 Apr 2020 18:12

Tgt Ion: 63 Resp: 916

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

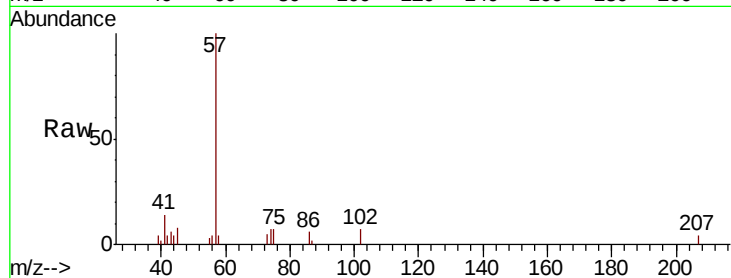




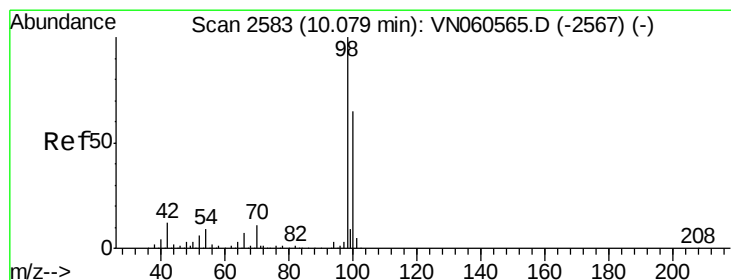
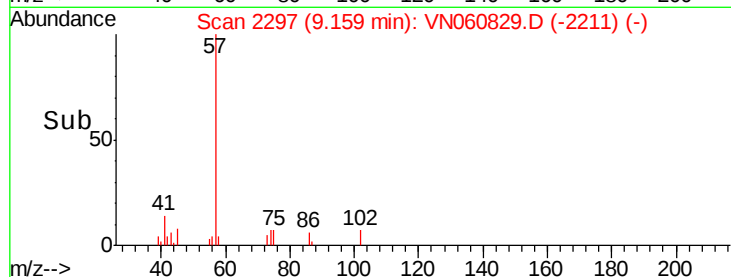
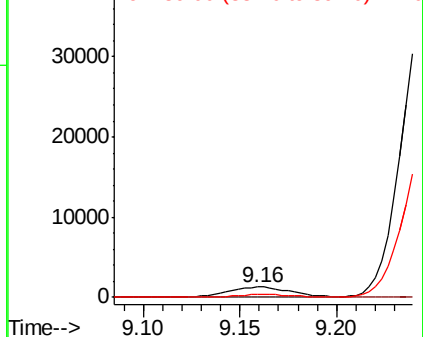
#48
Methvl methacrylate
Concen: 1.087 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060829.D
Acq: 2 Apr 2020 18:12

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2865
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

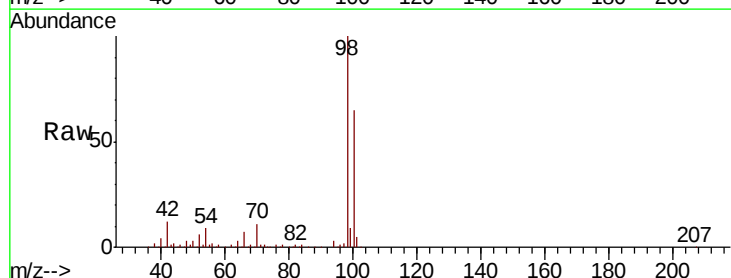


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

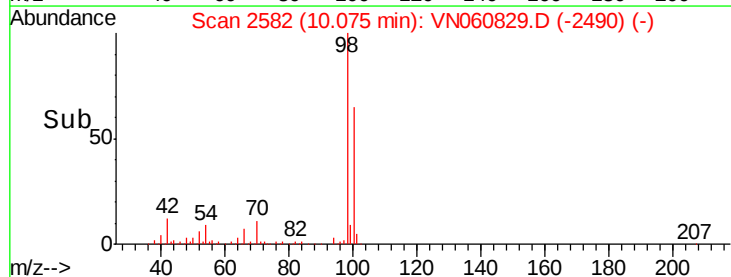
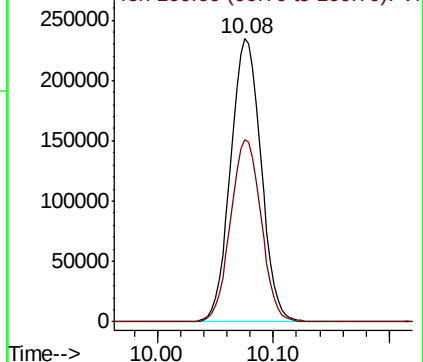


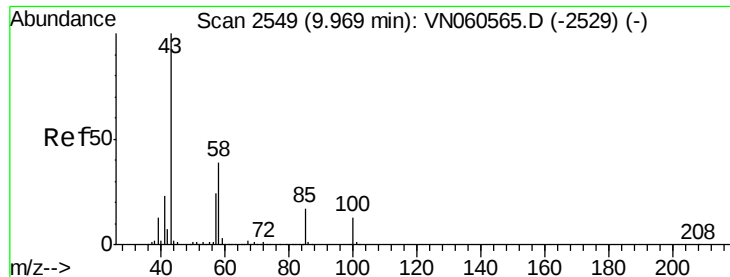
#50
Toluene-d8
Concen: 50.280 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060829.D
Acq: 2 Apr 2020 18:12

Tgt Ion: 98 Resp: 426219
Ion Ratio Lower Upper
98 100
100 64.7 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.228 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

Instrument :

MSVOA_N

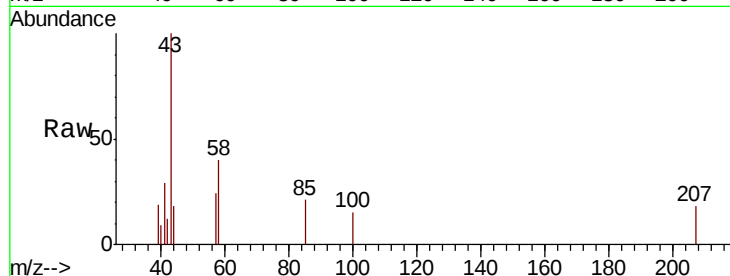
ClientSampled :

Tot Ion: 43 Resp: 4137

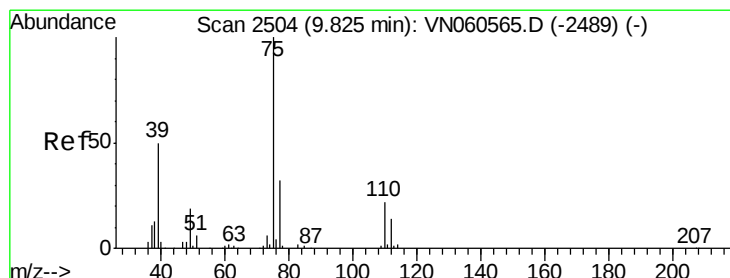
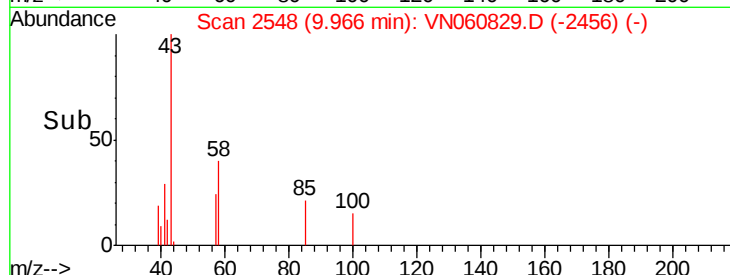
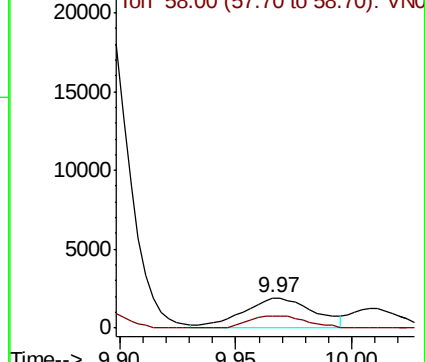
Ion Ratio Lower Upper

43 100

58 32.3 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060829.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.944 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

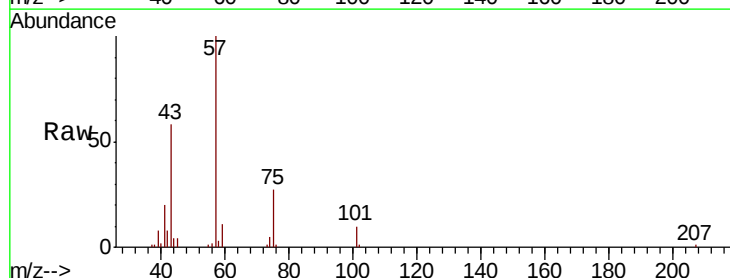
Tgt Ion: 75 Resp: 20722

Ion Ratio Lower Upper

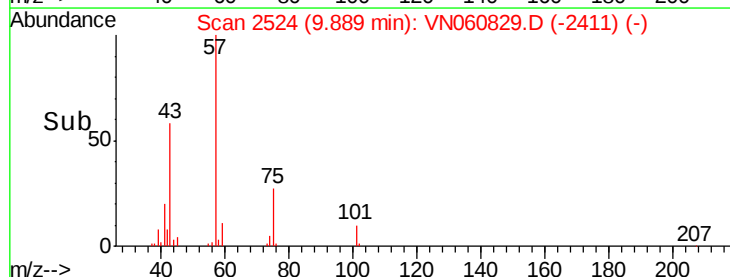
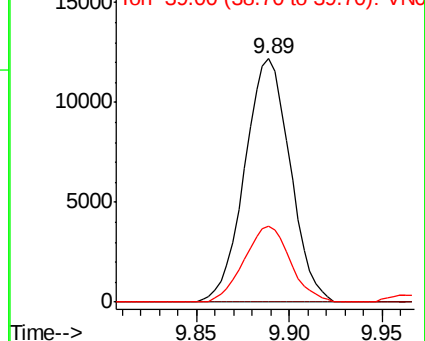
75 100

77 0.0 25.4 38.0#

39 31.1 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN060829.D (-2411) (-)





#57

1,3-Dichloropropane

Concen: 0.816 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

Instrument :

MSVOA_N

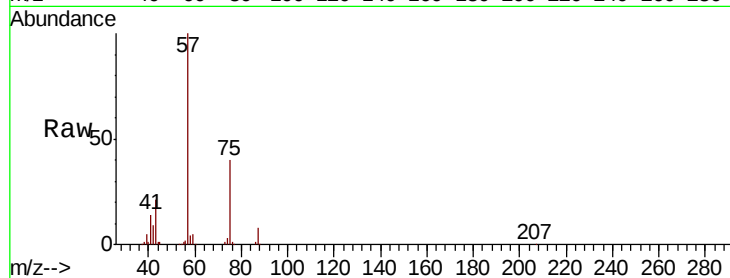
ClientSampleId :

Tot Ion: 76 Resp: 3302

Ion Ratio Lower Upper

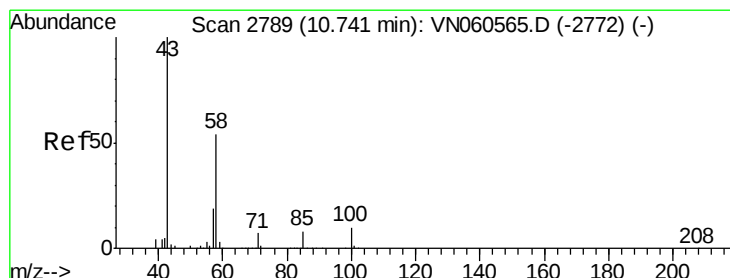
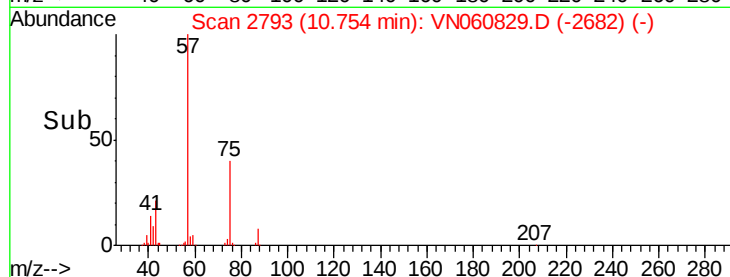
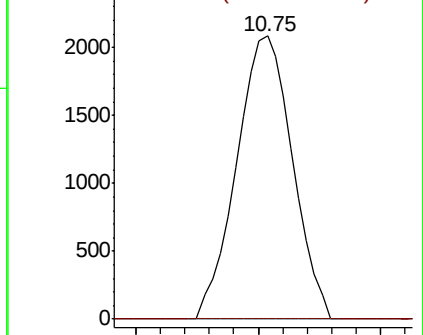
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 20.568 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060829.D

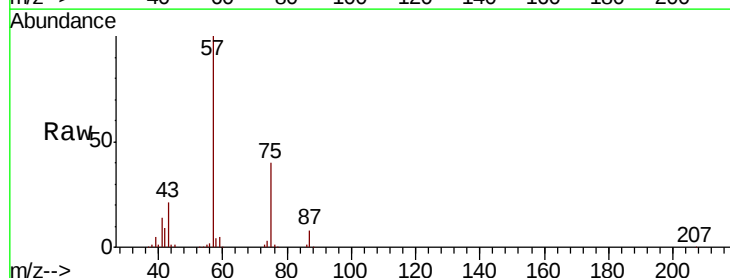
Acq: 2 Apr 2020 18:12

Tgt Ion: 43 Resp: 49931

Ion Ratio Lower Upper

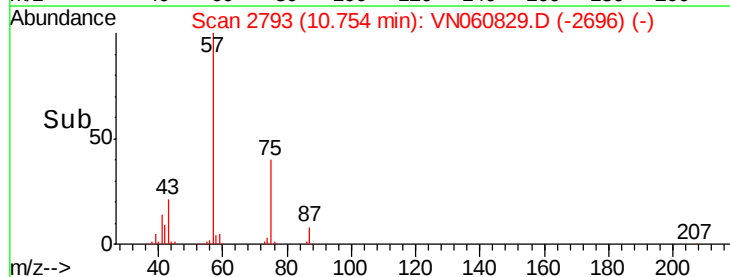
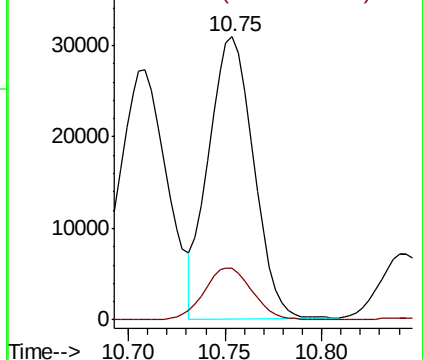
43 100

58 19.5 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 50.628 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

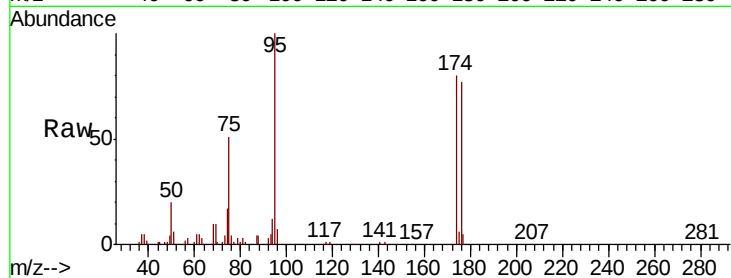
Tot Ion: 95 Resp: 157284

Ion Ratio Lower Upper

95 100

174 78.3 0.0 157.6

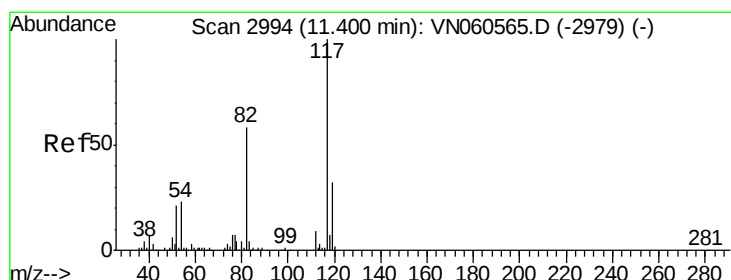
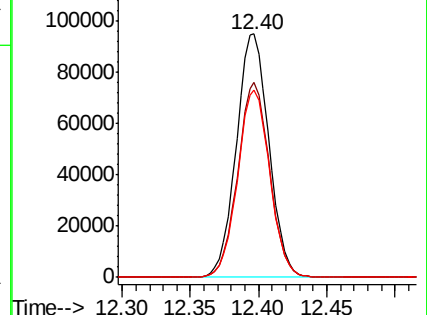
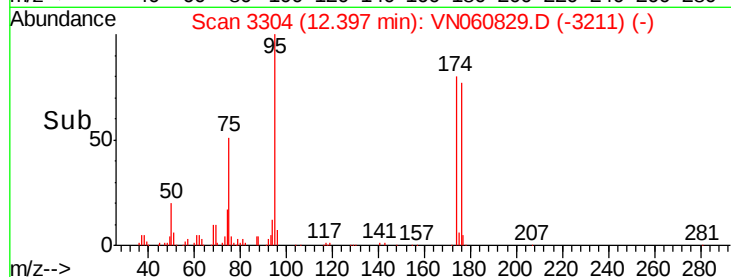
176 76.0 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060829.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060829.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060829.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2993

Delta R.T. -0.00 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

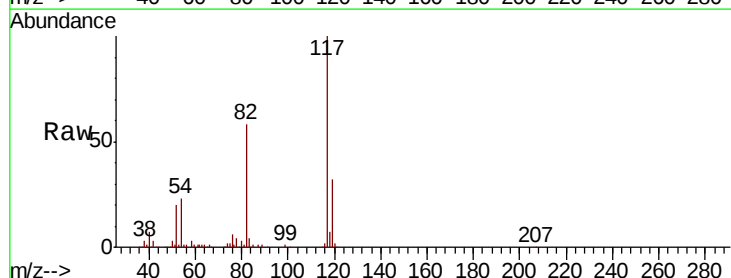
Tgt Ion: 117 Resp: 323916

Ion Ratio Lower Upper

117 100

82 58.0 46.7 70.1

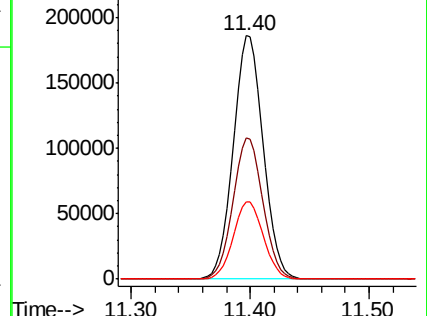
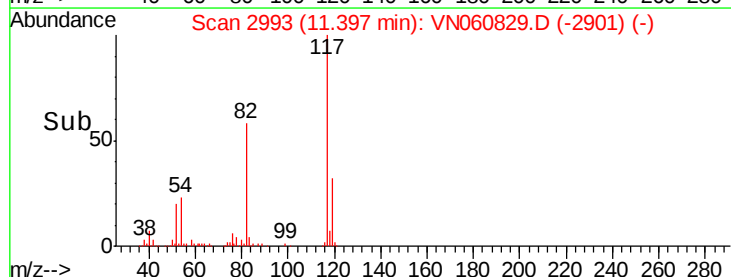
119 31.6 25.5 38.3

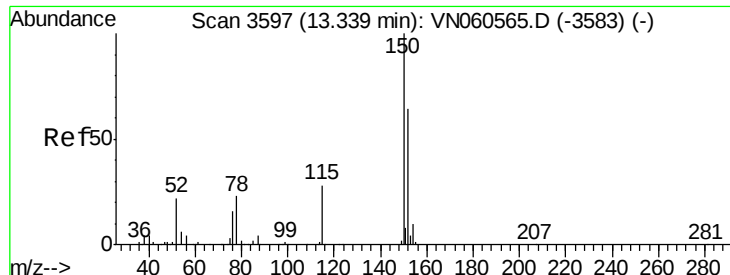


Abundance Ion 116.90 (116.60 to 117.60): VN060829.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060829.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060829.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

Instrument :

MSVOA_N

ClientSampleId :

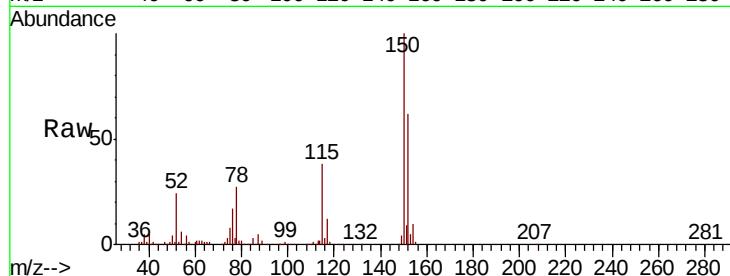
Tot Ion:152 Resp: 143867

Ion Ratio Lower Upper

152 100

115 61.0 30.2 90.6

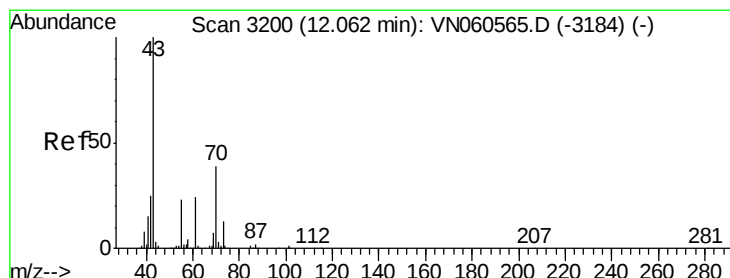
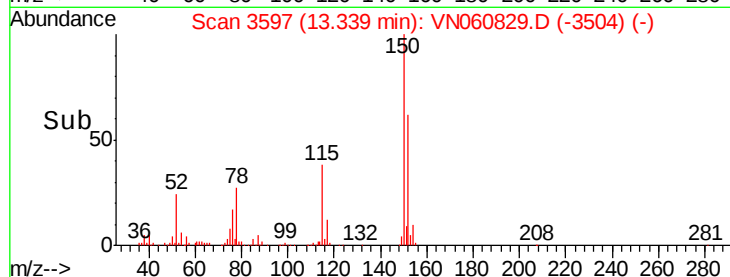
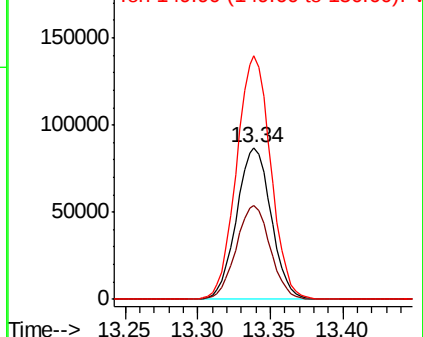
150 158.9 0.0 350.2



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-ethyl acetate

Concen: 0.591 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

Tgt Ion: 43 Resp: 2950

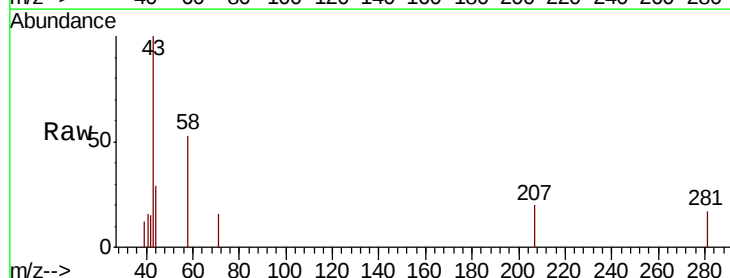
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

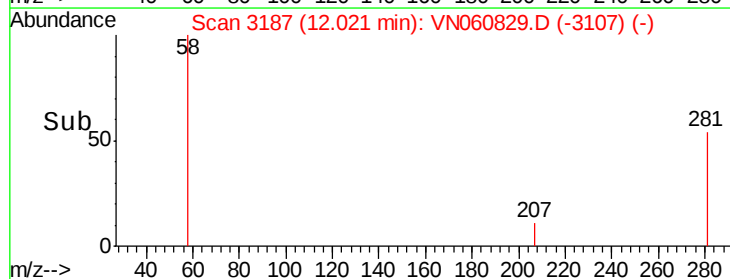
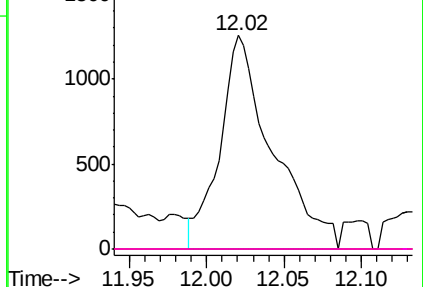


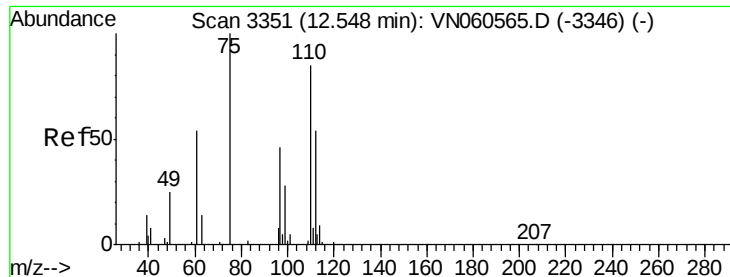
Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 70.00 (69.70 to 70.70): VNC

Ion 55.00 (54.70 to 55.70): VNC

Ion 61.00 (60.70 to 61.70): VNC





#76

1,2,3-Trichloropropane

Concen: 25.869 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

Instrument :

MSVOA_N

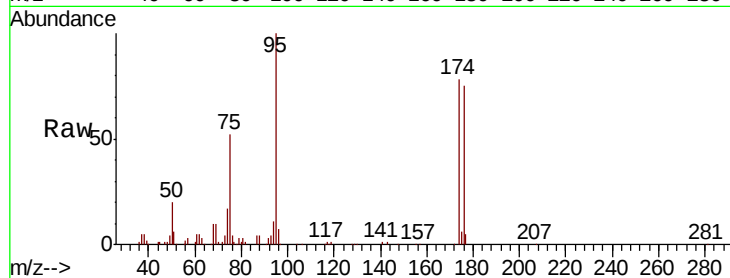
ClientSampled :

Tot Ion: 75 Resp: 80307

Ion Ratio Lower Upper

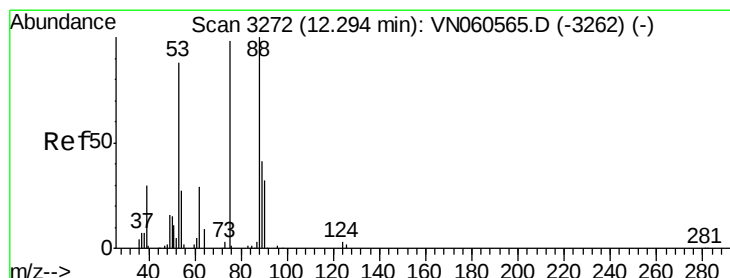
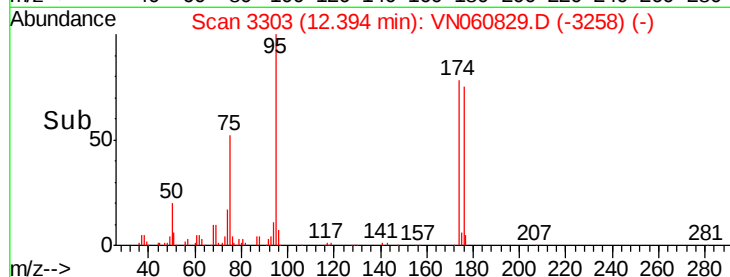
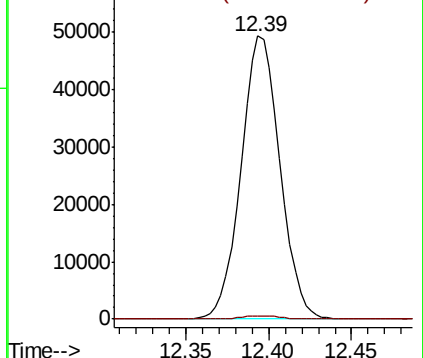
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 66.440 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060829.D

Acq: 2 Apr 2020 18:12

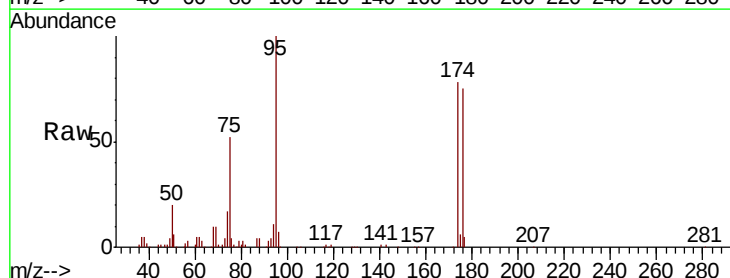
Tgt Ion: 75 Resp: 80307

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

