

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032420\
 Data File : VN060676.D
 Acq On : 24 Mar 2020 16:45
 Operator : JC/MD
 Sample : PB127757ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 03:54:46 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	194710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	324377	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	304336	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	140152	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	126772	47.43	ug/l	0.00
Spiked Amount			Recovery	=	94.86%	
35) Dibromofluoromethane	7.56	113	96805	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
50) Toluene-d8	10.08	98	400677	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.40	95	148621	50.62	ug/l	0.00
Spiked Amount			Recovery	=	101.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5058	5.342	ug/l	95
18) Methyl Acetate	4.30	43	1542	0.579	ug/l #	54
20) Methylene Chloride	4.52	84	6011	2.581	ug/l	94
25) 2-Butanone	6.81	43	2548	1.663	ug/l	90
31) Cyclohexane	7.64	56	4182	0.971	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15035	4.787	ug/l #	49
37) Ethyl Acetate	6.81	43	2548	0.751	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19029	6.760	ug/l #	16
43) Isopropyl Acetate	8.14	43	51359	9.176	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	734	0.293	ug/l #	43
48) Methyl methacrylate	9.16	41	2767	1.110	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3879	1.218	ug/l #	86
54) cis-1,3-Dichloropropene	9.89	75	21605	5.455	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3567	0.933	ug/l #	42
59) 2-Hexanone	10.75	43	54555	23.778	ug/l #	53
71) Bromoform	12.39	173	196	1.785	ug/l #	1
74) N-amyl acetate	12.02	43	3342	0.688	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	75237	24.878	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2665	0.299	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	75237	63.895	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

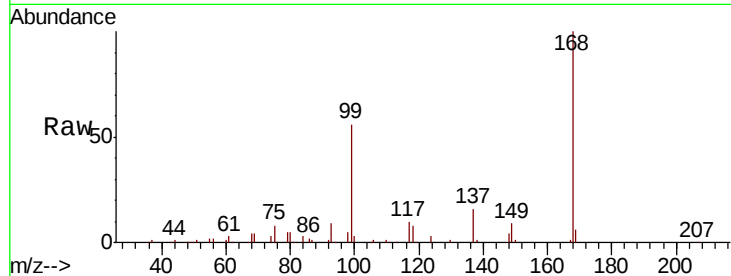
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 194710

Ion Ratio Lower Upper

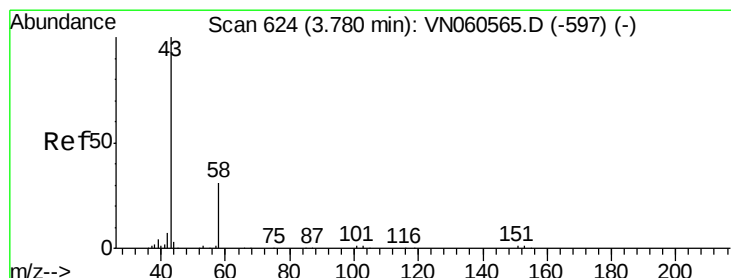
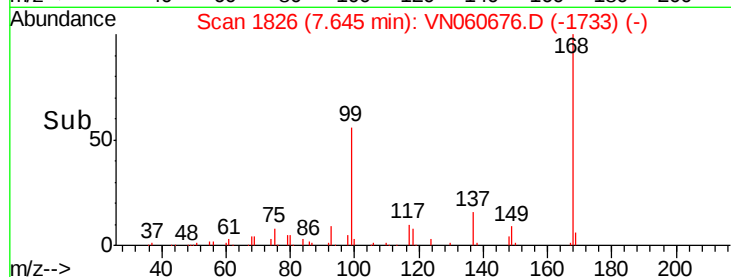
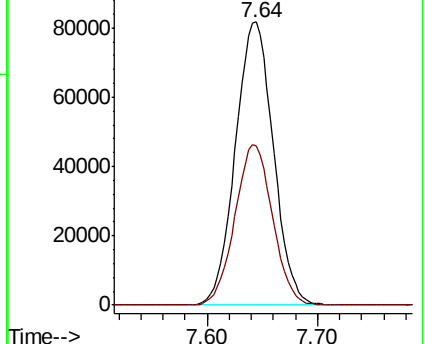
168 100

99 56.2 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 5.342 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060676.D

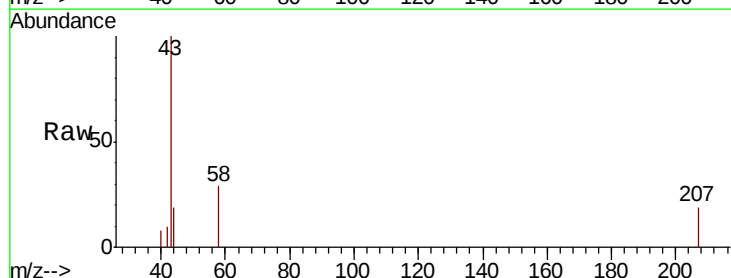
Acq: 24 Mar 2020 16:45

Tgt Ion: 43 Resp: 5058

Ion Ratio Lower Upper

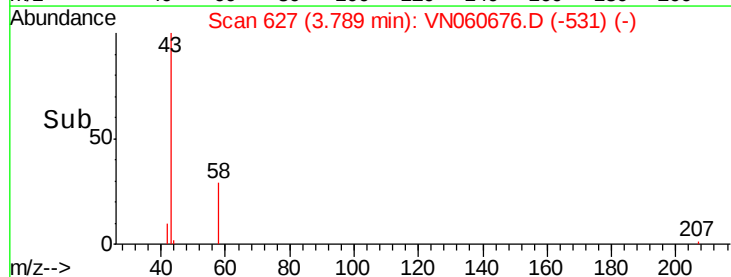
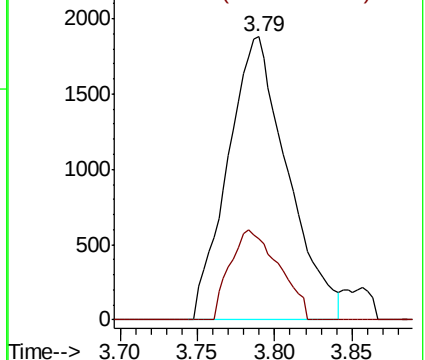
43 100

58 28.8 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

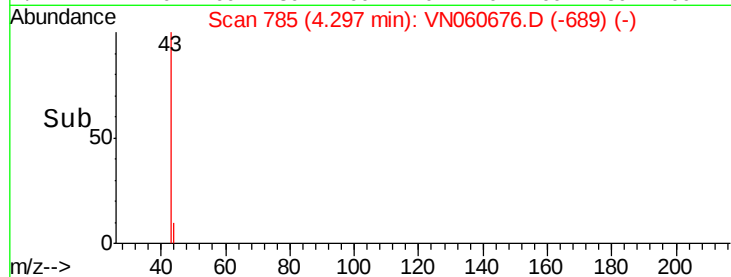
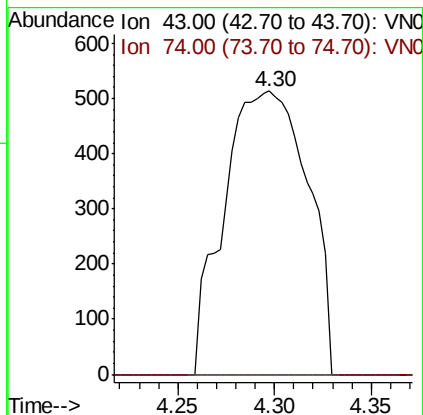
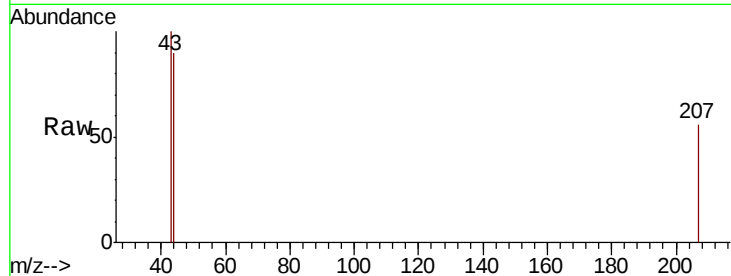




#18
Methyl Acetate
Concen: 0.579 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060676.D
Acq: 24 Mar 2020 16:45

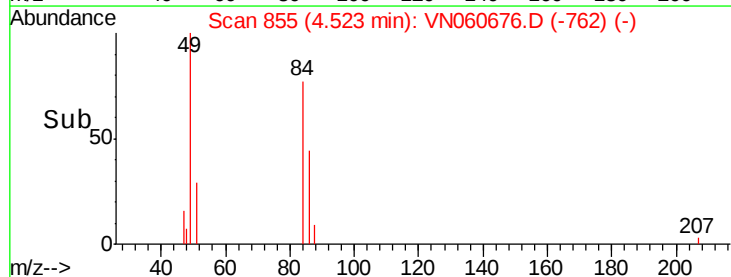
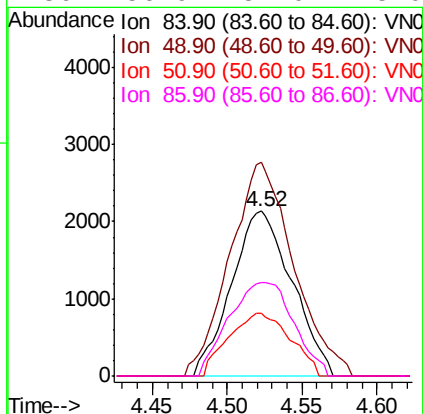
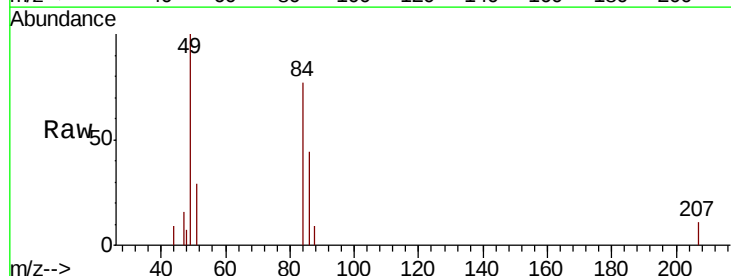
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1542
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.581 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060676.D
Acq: 24 Mar 2020 16:45

Tgt Ion: 84 Resp: 6011
Ion Ratio Lower Upper
84 100
49 122.4 103.3 154.9
51 37.9 31.6 47.4
86 56.9 52.0 78.0

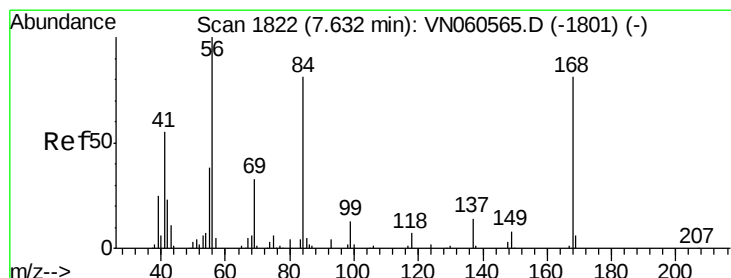
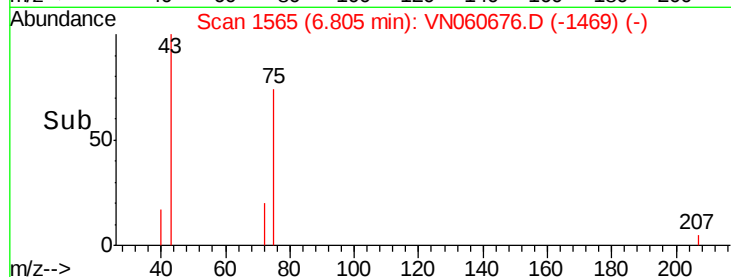
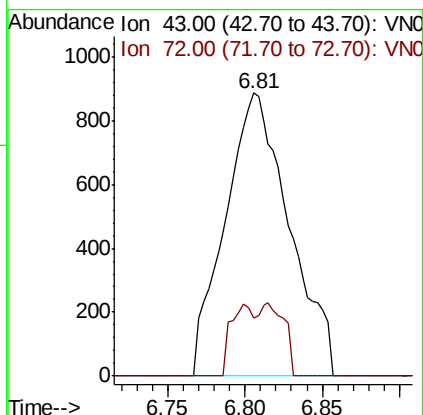
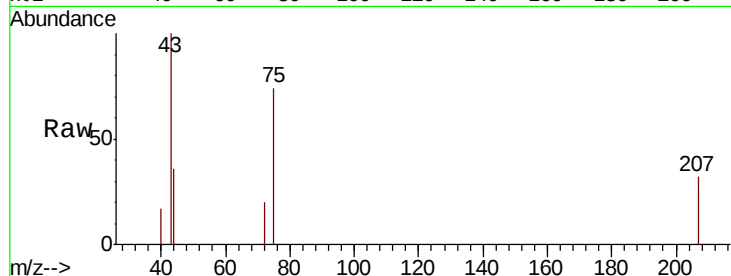




#25
2-Butanone
Concen: 1.663 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060676.D
Acq: 24 Mar 2020 16:45

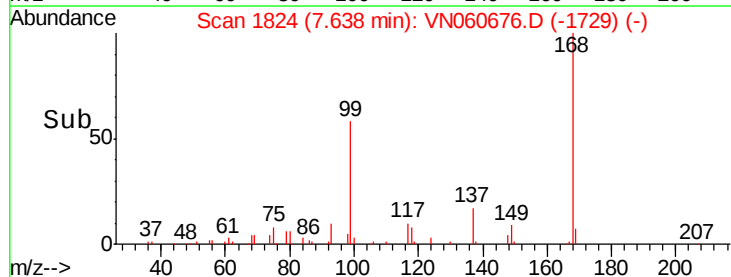
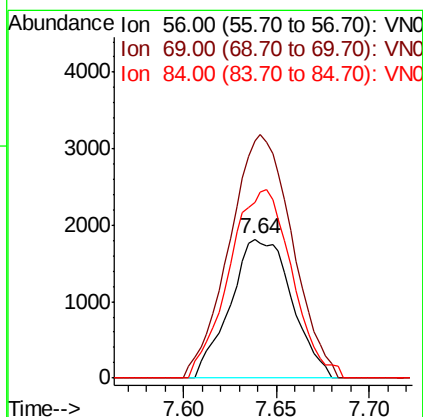
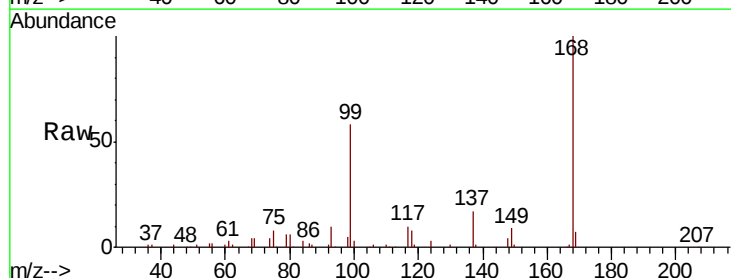
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 2548
Ion Ratio Lower Upper
43 100
72 20.4 20.4 30.6



#31
Cyclohexane
Concen: 0.971 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060676.D
Acq: 24 Mar 2020 16:45

Tgt Ion: 56 Resp: 4182
Ion Ratio Lower Upper
56 100
69 170.5 26.6 40.0#
84 125.9 64.3 96.5#

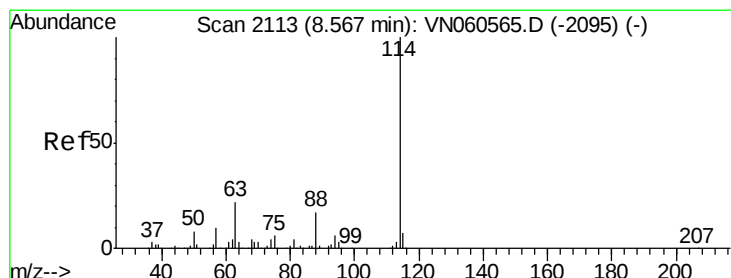
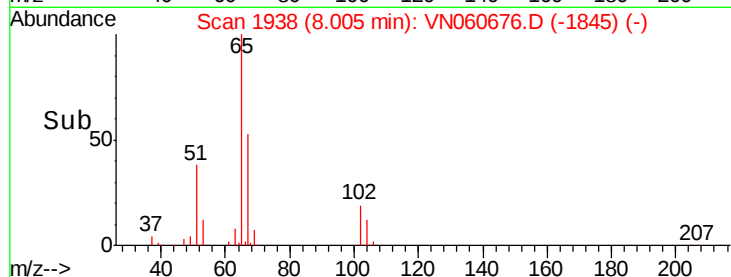
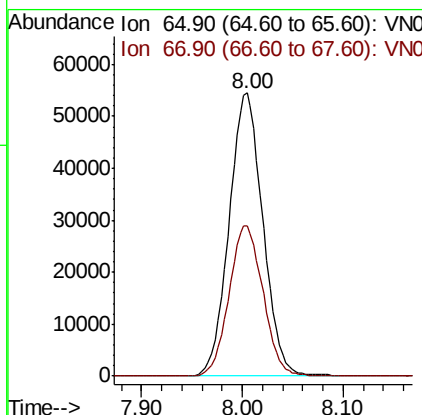
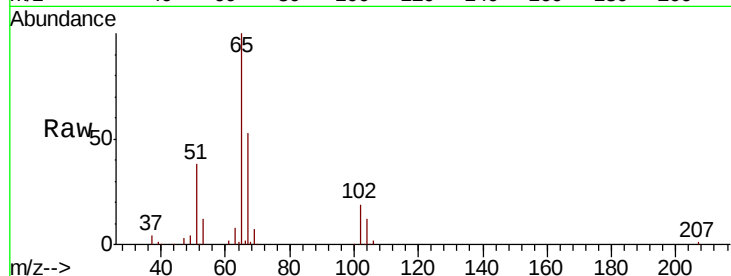




#33
 1,2-Dichloroethane-d4
 Concen: 47.428 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060676.D
 Acq: 24 Mar 2020 16:45

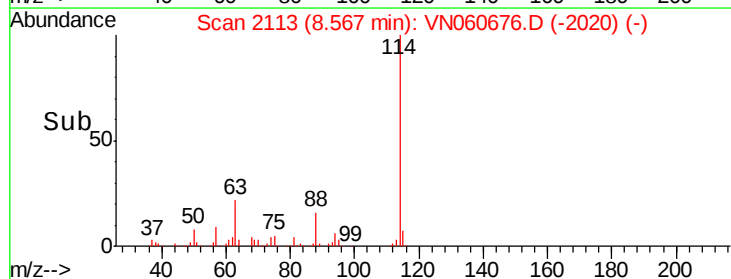
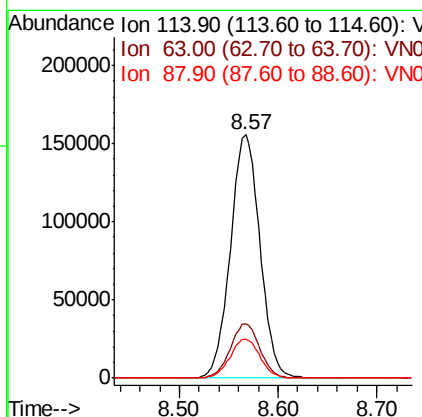
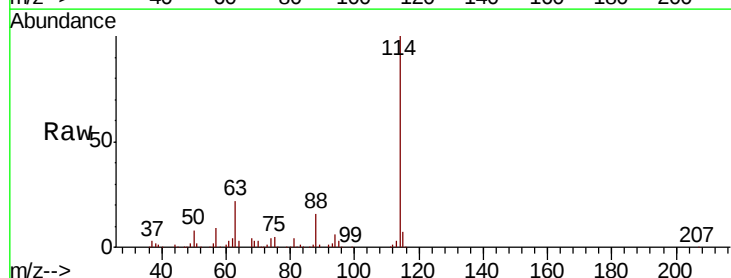
Instrument :
 MSVOA_N
 ClientSampleId :

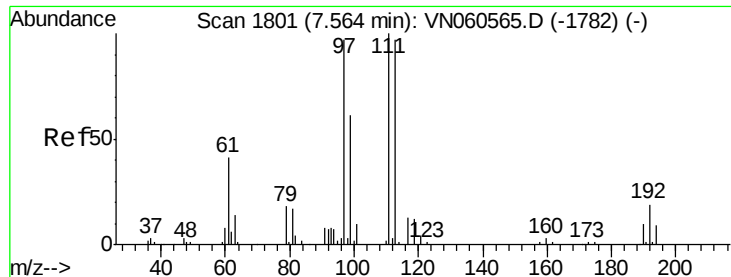
Tot Ion: 65 Resp: 126772
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060676.D
 Acq: 24 Mar 2020 16:45

Tgt Ion: 114 Resp: 324377
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.8
 88 15.9 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.355 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

Instrument :
MSVOA_N
ClientSampled :

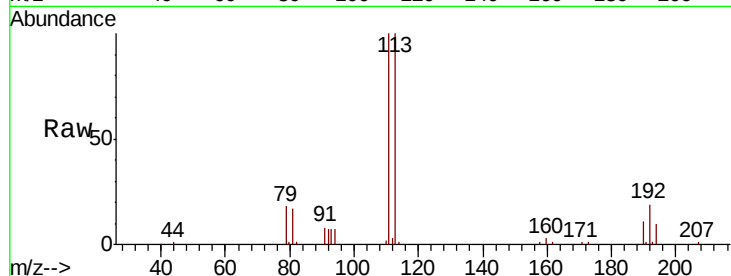
Tot Ion:113 Resp: 96805

Ion Ratio Lower Upper

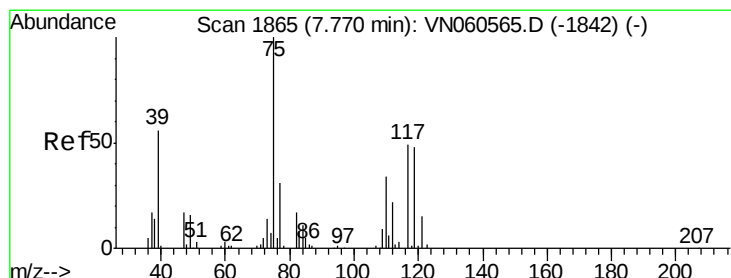
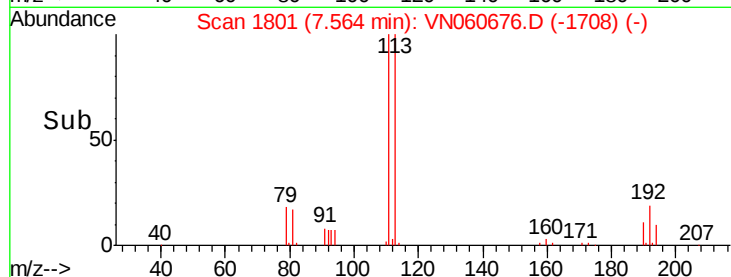
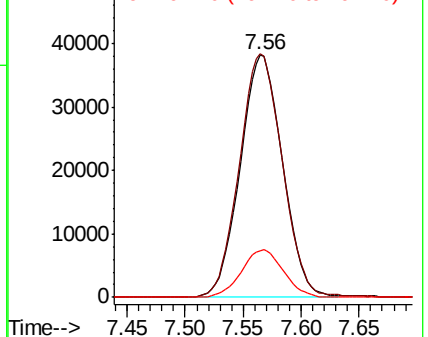
113 100

111 101.9 82.9 124.3

192 19.5 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: 4.787 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

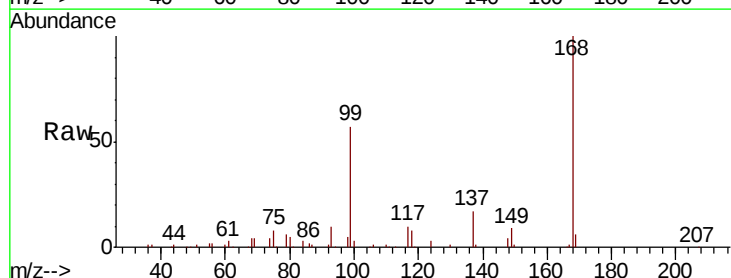
Tgt Ion: 75 Resp: 15035

Ion Ratio Lower Upper

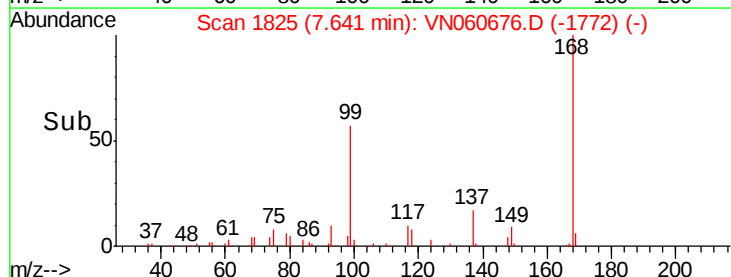
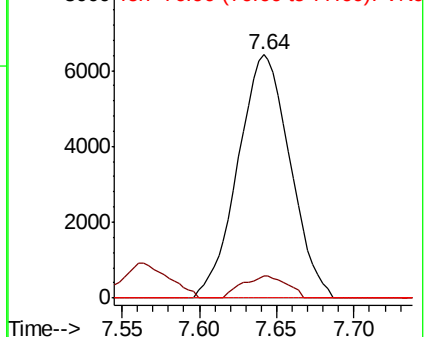
75 100

110 7.6 16.9 50.6#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V

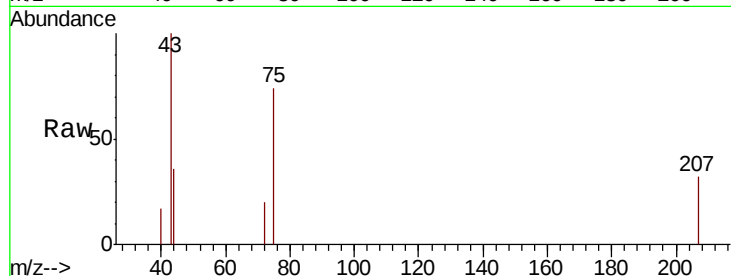




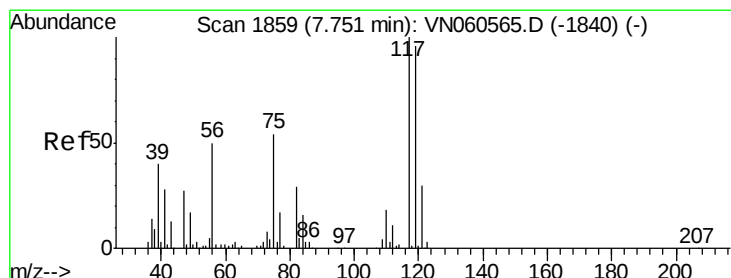
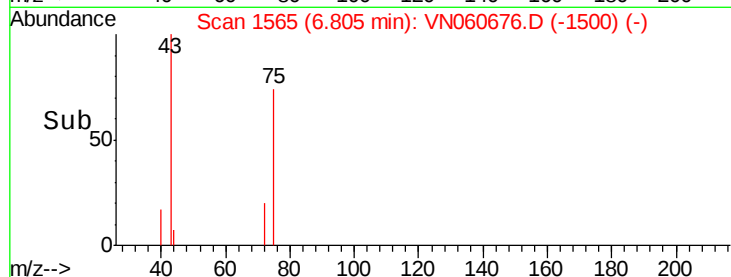
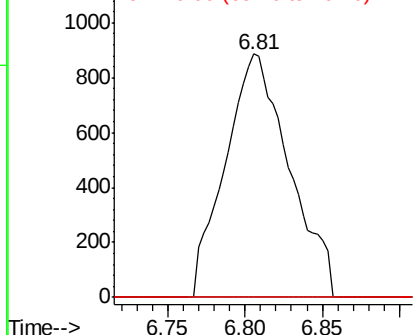
#37
Ethyl Acetate
Concen: 0.751 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060676.D
Acq: 24 Mar 2020 16:45

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2548
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#

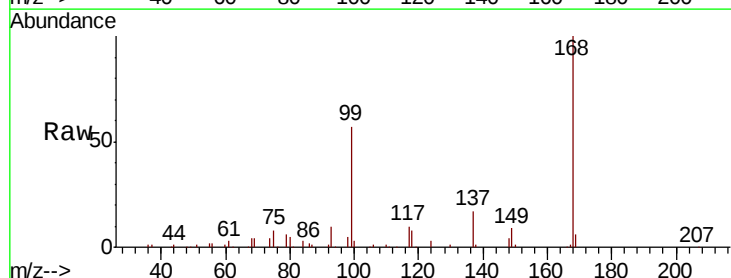


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

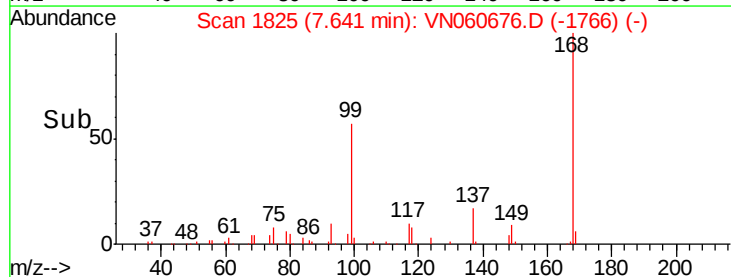
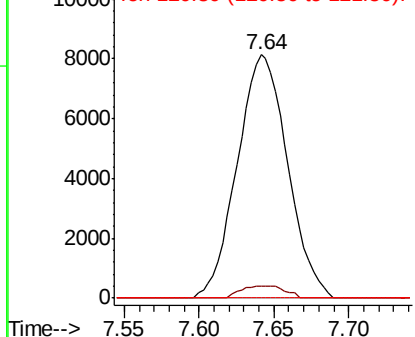


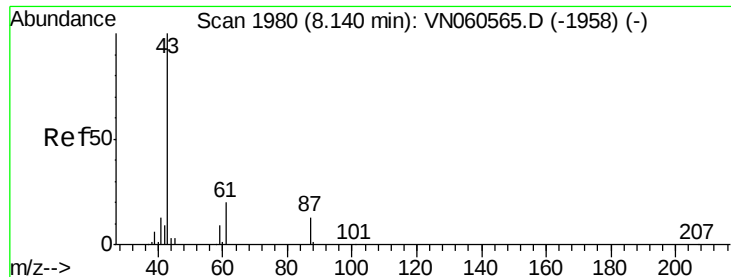
#38
Carbon Tetrachloride
Concen: 6.760 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060676.D
Acq: 24 Mar 2020 16:45

Tgt Ion: 117 Resp: 19029
Ion Ratio Lower Upper
117 100
119 4.9 76.2 114.2#
121 0.0 23.7 35.5#



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: 9.176 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

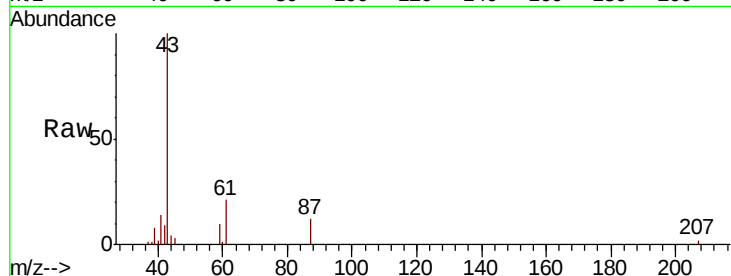
Tot Ion: 43 Resp: 51359

Ion Ratio Lower Upper

43 100

61 19.9 20.7 31.1#

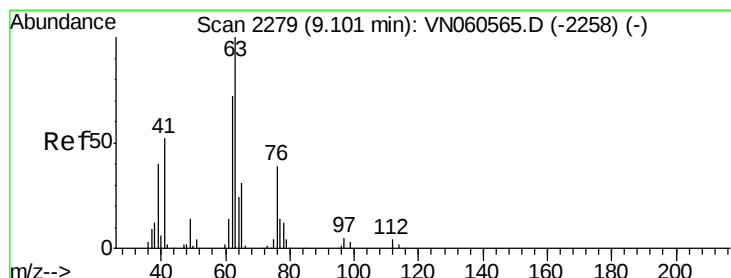
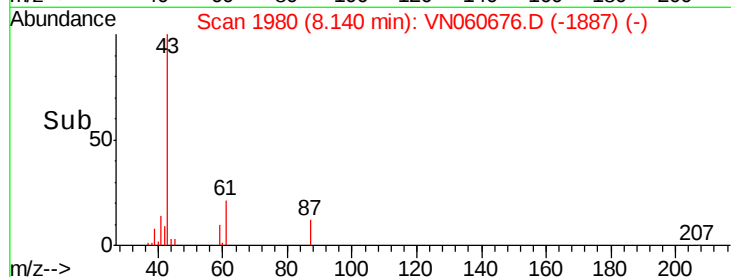
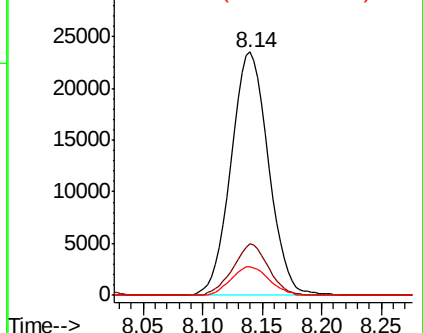
87 11.9 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060676.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060676.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060676.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.293 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060676.D

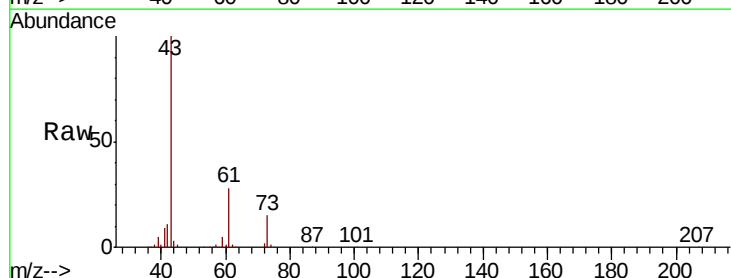
Acq: 24 Mar 2020 16:45

Tgt Ion: 63 Resp: 734

Ion Ratio Lower Upper

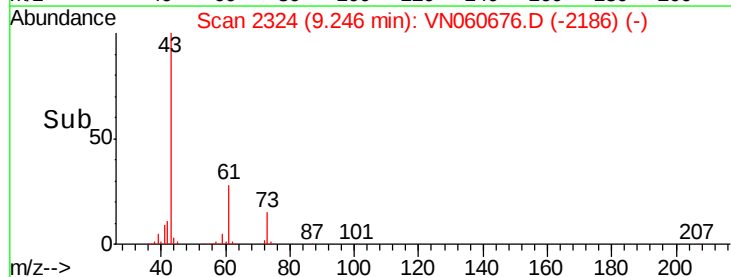
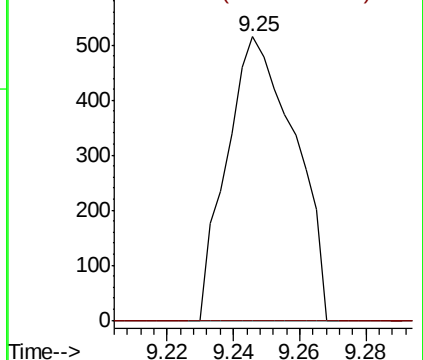
63 100

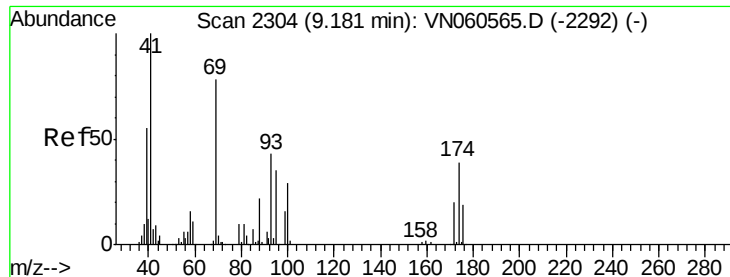
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060676.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060676.D (-2186) (-)

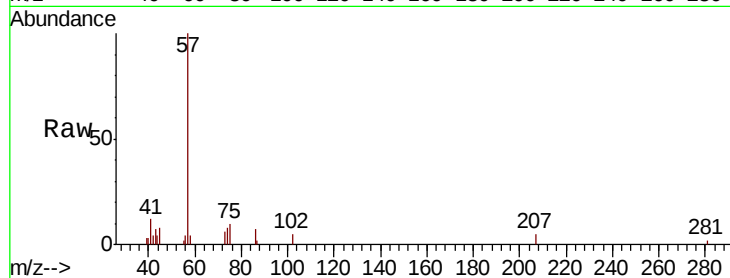




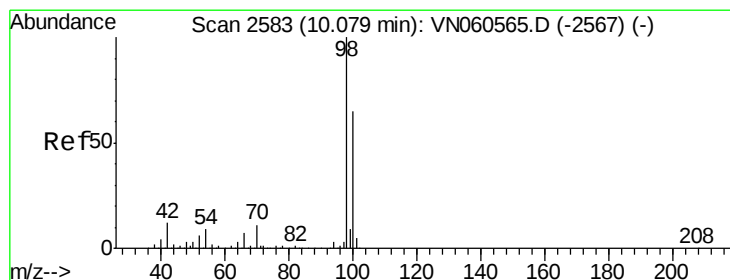
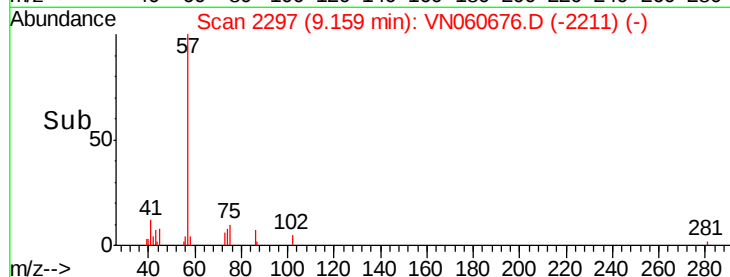
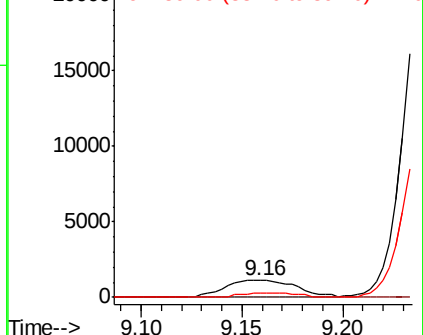
#48
Methvl methacrylate
Concen: 1.110 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060676.D
Acq: 24 Mar 2020 16:45

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2767
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

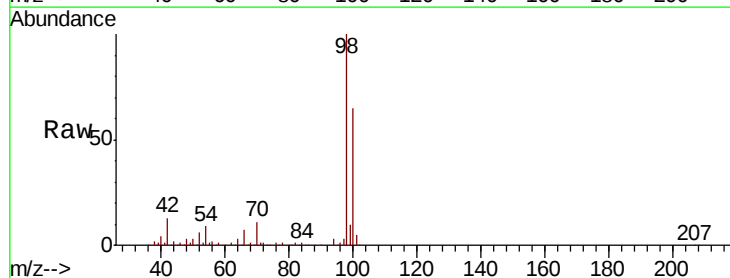


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

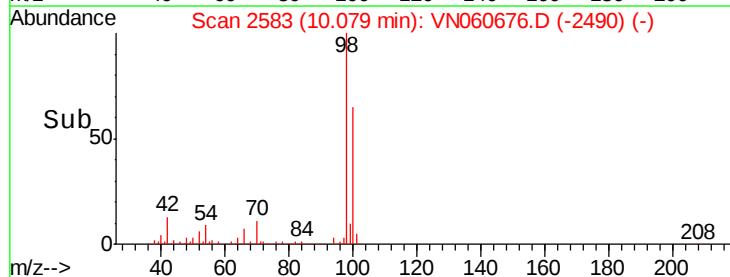
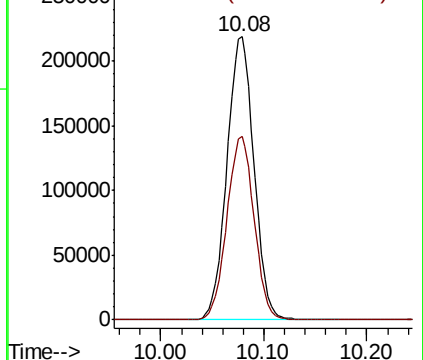


#50
Toluene-d8
Concen: 50.012 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060676.D
Acq: 24 Mar 2020 16:45

Tgt Ion: 98 Resp: 400677
Ion Ratio Lower Upper
98 100
100 65.1 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: 1.218 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

Instrument :

MSVOA_N

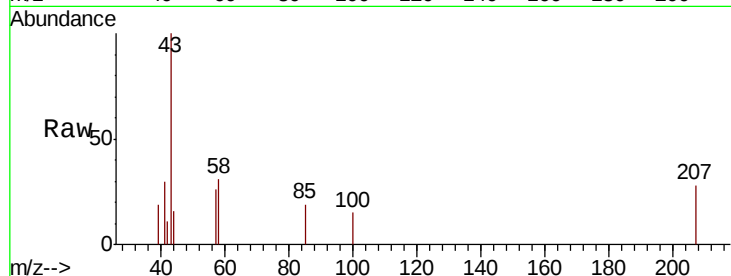
ClientSampled :

Tot Ion: 43 Resp: 3879

Ion Ratio Lower Upper

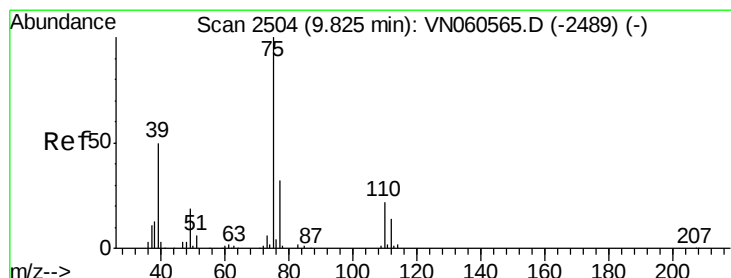
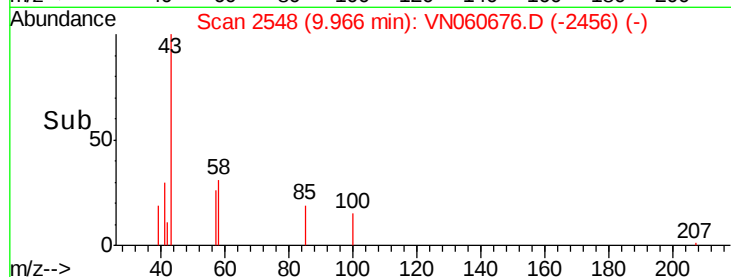
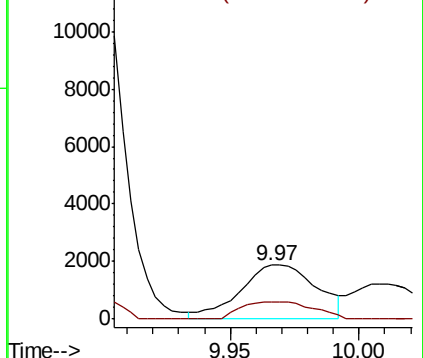
43 100

58 30.1 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.455 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

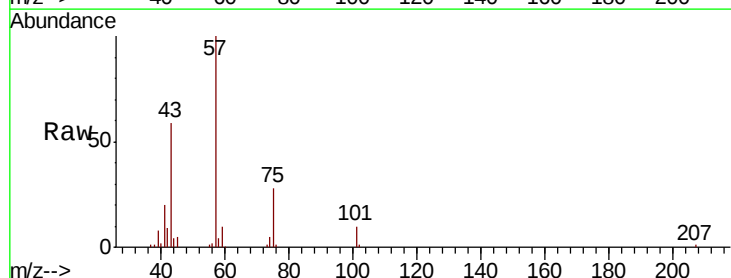
Tgt Ion: 75 Resp: 21605

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

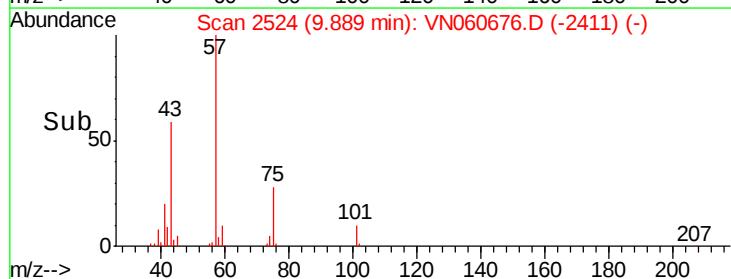
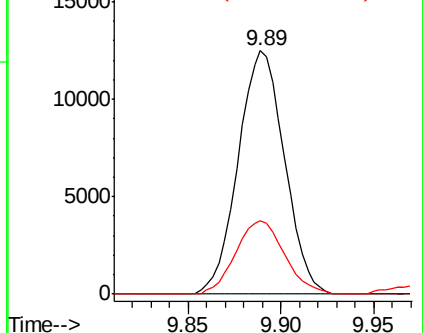
39 30.0 40.2 60.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

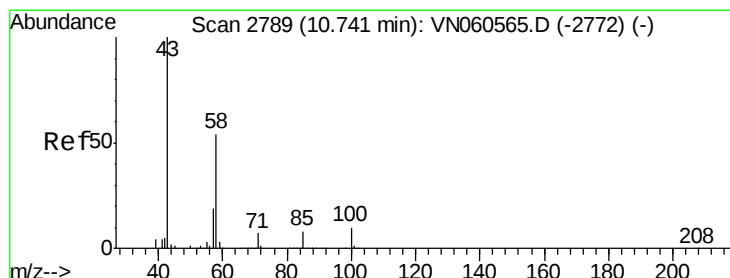
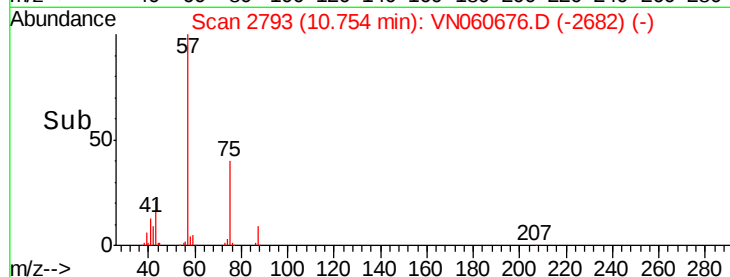
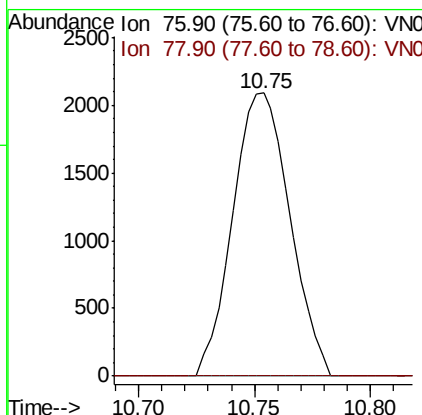
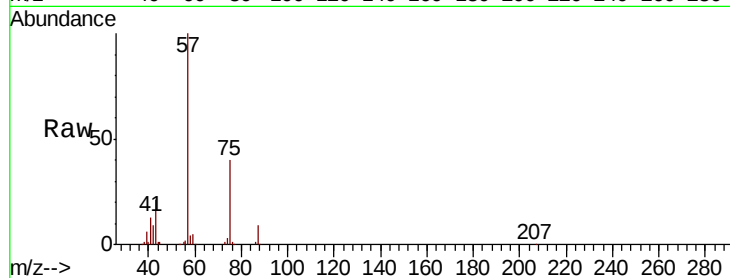




#57
 1,3-Dichloropropane
 Concen: 0.933 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060676.D
 Acq: 24 Mar 2020 16:45

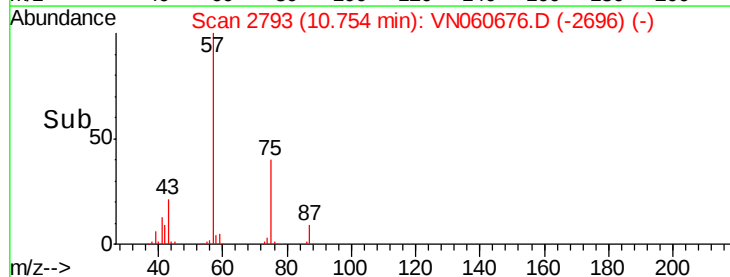
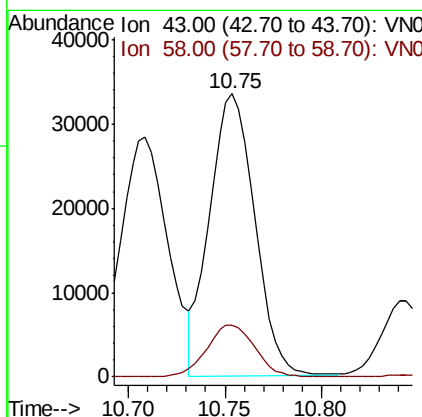
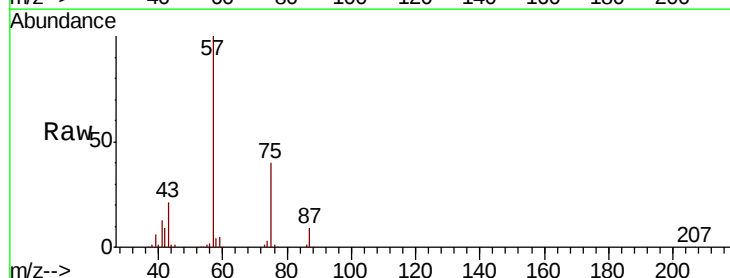
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 76 Resp: 3567
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 23.778 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060676.D
 Acq: 24 Mar 2020 16:45

Tgt Ion: 43 Resp: 54555
 Ion Ratio Lower Upper
 43 100
 58 19.6 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 50.618 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

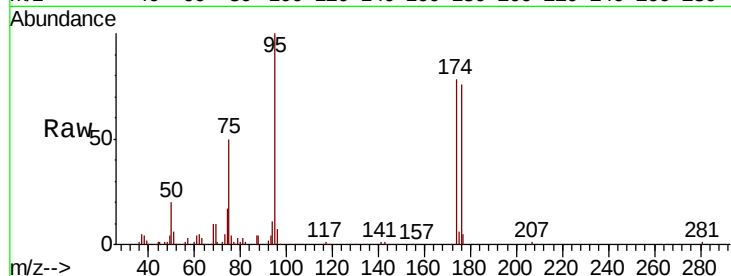
Tot Ion: 95 Resp: 148621

Ion Ratio Lower Upper

95 100

174 78.0 0.0 157.6

176 75.4 0.0 150.6

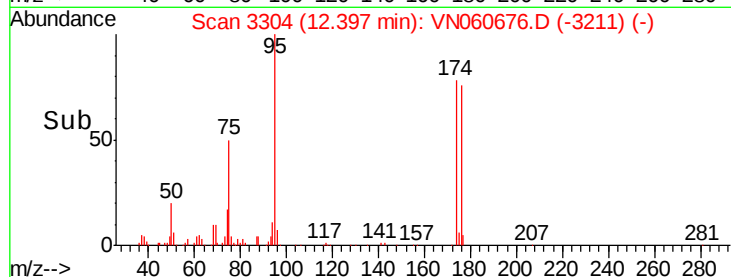


Abundance Ion 94.90 (94.60 to 95.60): VN060676.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060676.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060676.D (-3290) (-)

12.40



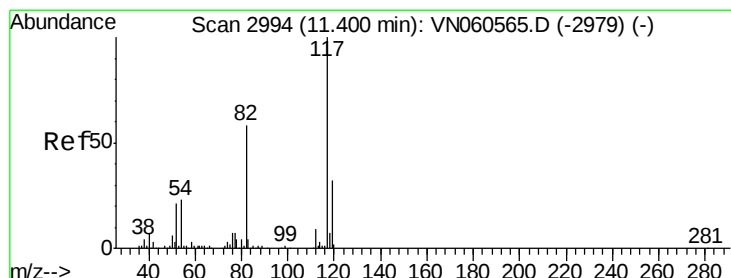
Abundance Ion 94.90 (94.60 to 95.60): VN060676.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060676.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060676.D (-3211) (-)

12.40

Time--> 12.30 12.35 12.40 12.45



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

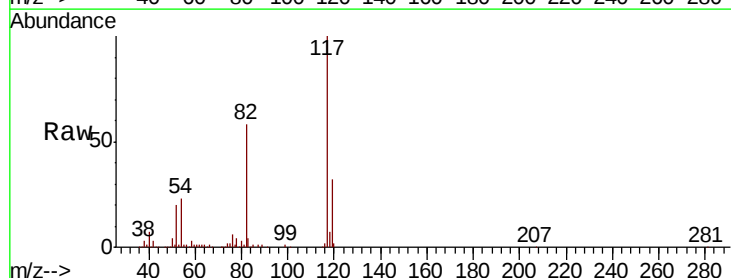
Tgt Ion: 117 Resp: 304336

Ion Ratio Lower Upper

117 100

82 58.0 46.7 70.1

119 32.2 25.5 38.3

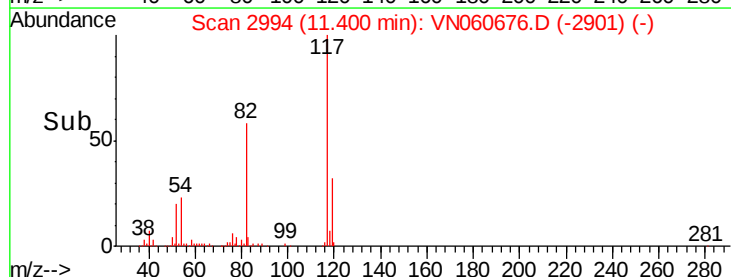


Abundance Ion 116.90 (116.60 to 117.60): VN060676.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060676.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060676.D (-2979) (-)

11.40



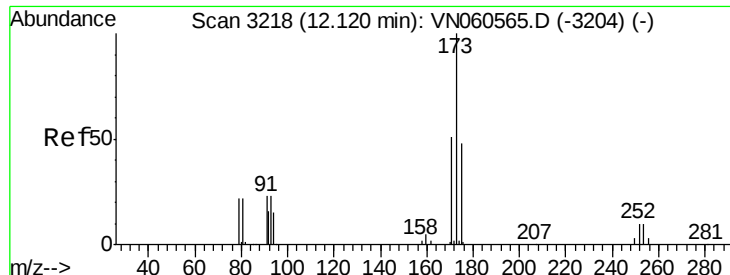
Abundance Ion 116.90 (116.60 to 117.60): VN060676.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060676.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060676.D (-2901) (-)

11.40

Time--> 11.30 11.40 11.50



#71

Bromoform

Concen: 1.785 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.27 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

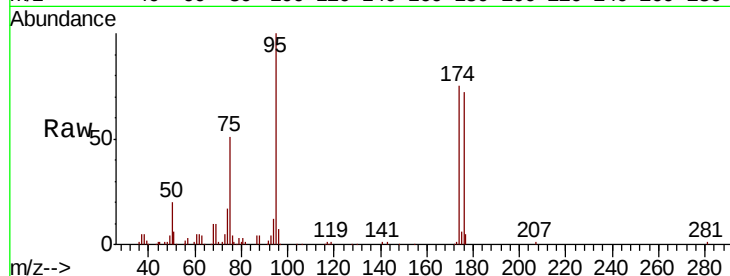
Tot Ion:173 Resp: 196

Ion Ratio Lower Upper

173 100

175 3667.3 24.1 72.4#

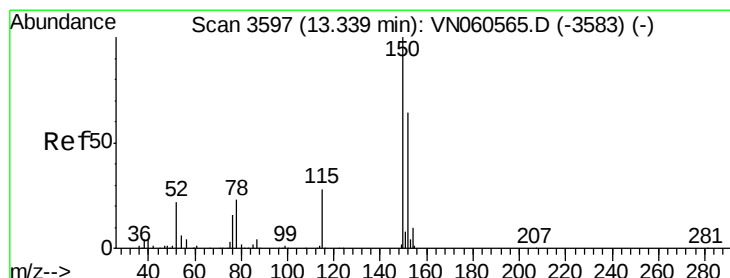
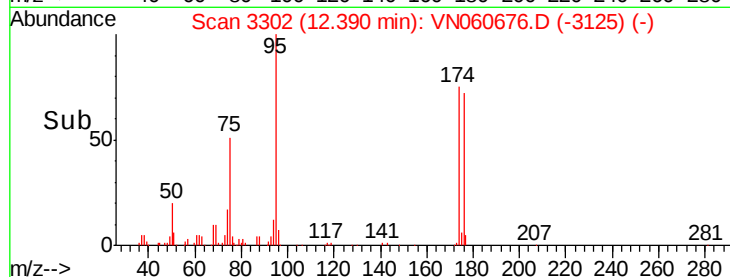
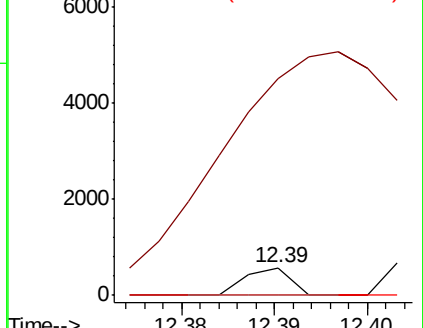
254 0.0 0.0 0.0



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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

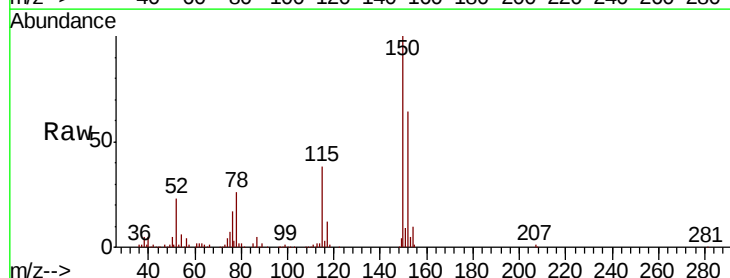
Tgt Ion:152 Resp: 140152

Ion Ratio Lower Upper

152 100

115 59.4 30.2 90.6

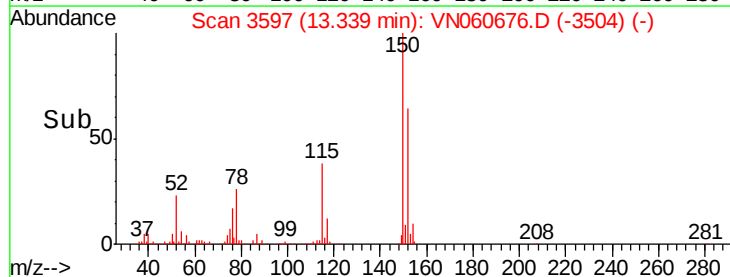
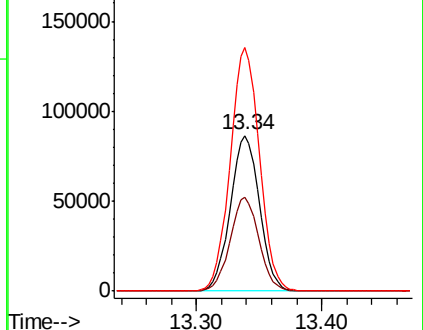
150 156.8 0.0 350.2

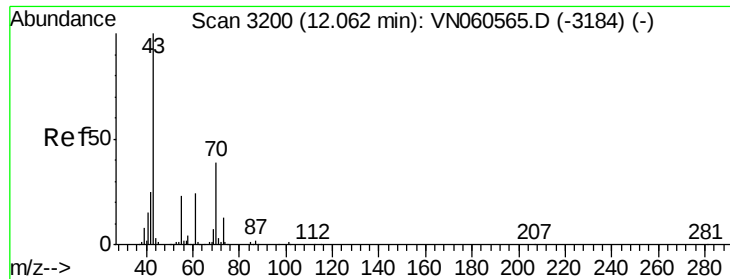


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.688 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3342

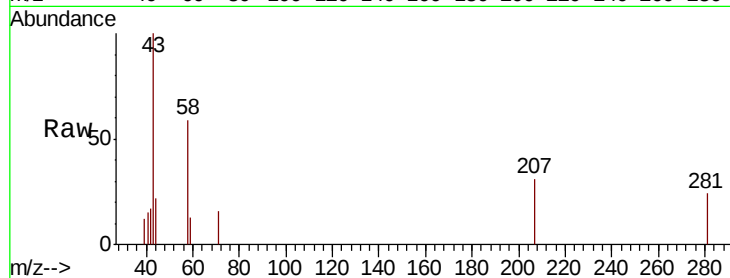
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

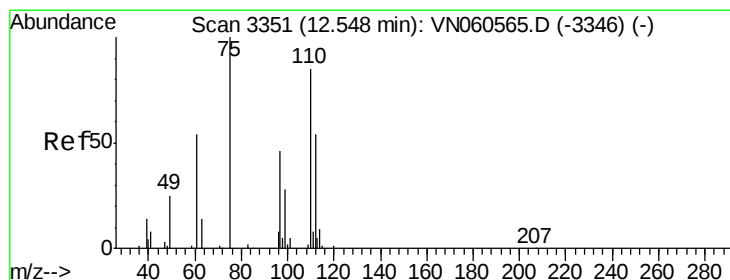
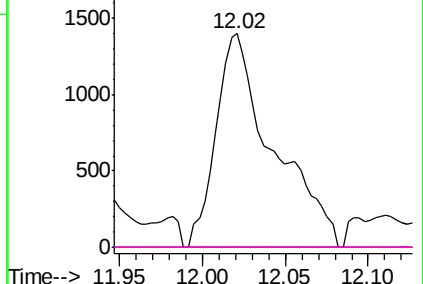
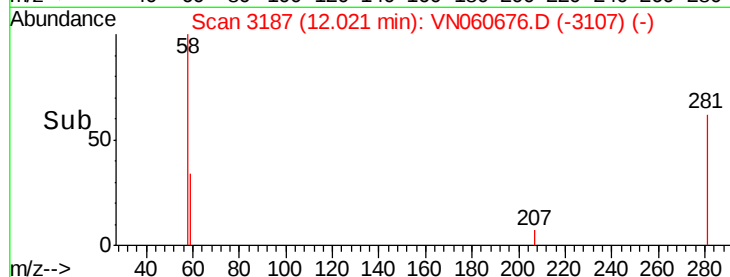


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.878 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060676.D

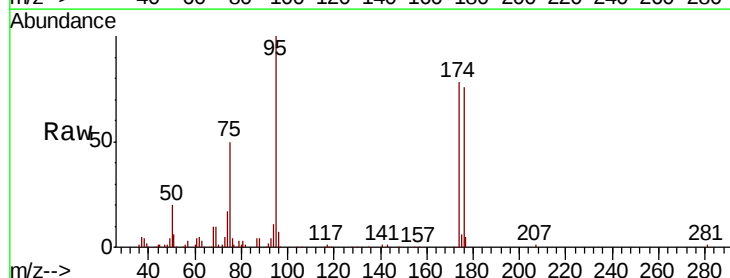
Acq: 24 Mar 2020 16:45

Tgt Ion: 75 Resp: 75237

Ion Ratio Lower Upper

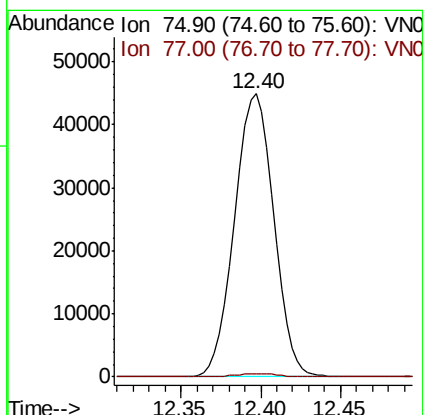
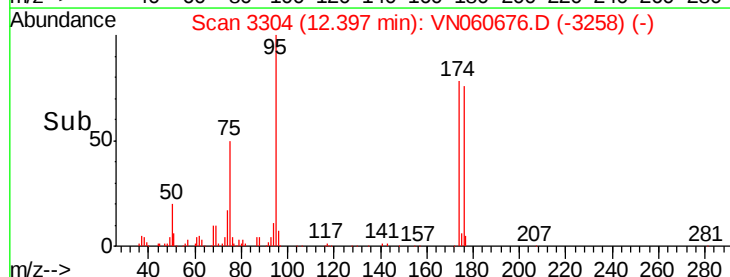
75 100

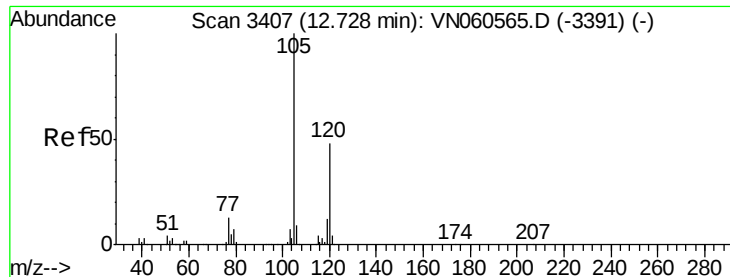
77 1.1 0.0 0.0#



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: 0.299 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

Instrument :

MSVOA_N

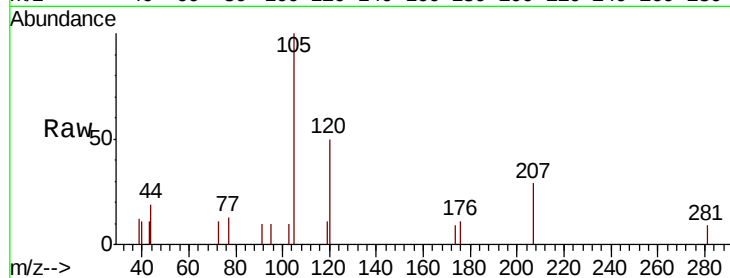
ClientSampled :

Tot Ion:105 Resp: 2665

Ion Ratio Lower Upper

105 100

120 49.9 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

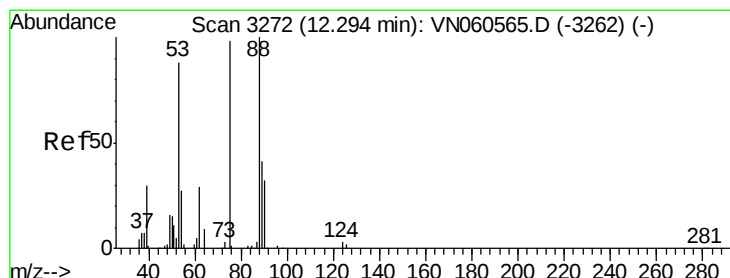
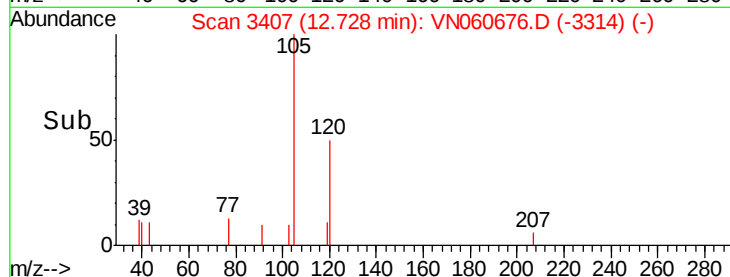
1500

1000

500

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 63.895 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060676.D

Acq: 24 Mar 2020 16:45

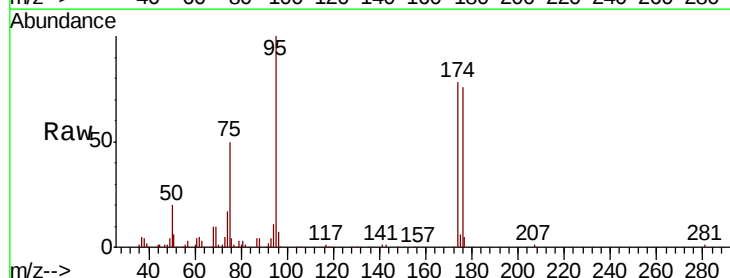
Tgt Ion: 75 Resp: 75237

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

60000

50000

40000

30000

20000

10000

0

Time-->

