

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032420\
 Data File : VN060675.D
 Acq On : 24 Mar 2020 16:22
 Operator : JC/MD
 Sample : PB127723ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 03:54:28 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	198636	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	330854	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	308384	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	140527	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	127699	46.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.66%	
35) Dibromofluoromethane	7.57	113	96279	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	
50) Toluene-d8	10.08	98	407052	49.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.62%	
62) 4-Bromofluorobenzene	12.40	95	150894	50.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.78%	

Target Compounds

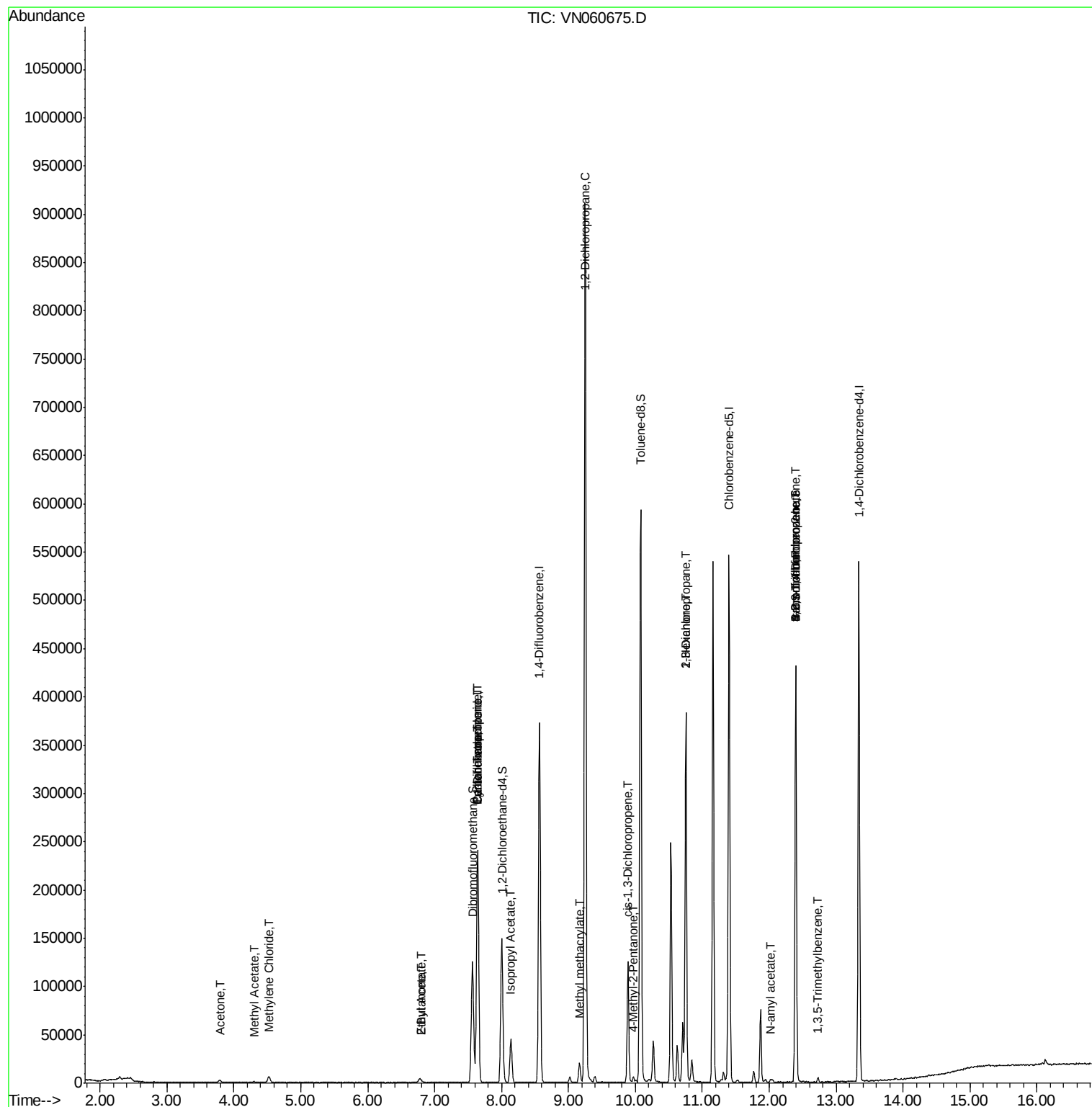
						Qvalue
16) Acetone	3.79	43	4931	5.105	ug/l	95
18) Methyl Acetate	4.30	43	1881	0.692	ug/l #	54
20) Methylene Chloride	4.53	84	4780	2.012	ug/l	97
25) 2-Butanone	6.81	43	1290	0.825	ug/l #	86
31) Cyclohexane	7.64	56	4163	0.948	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15626	4.878	ug/l #	49
37) Ethyl Acetate	6.81	43	1290	0.373	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19000	6.617	ug/l #	16
43) Isopropyl Acetate	8.14	43	53776	9.420	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	991	0.388	ug/l #	43
48) Methyl methacrylate	9.16	41	3080	1.212	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4128	1.271	ug/l #	84
54) cis-1,3-Dichloropropene	9.89	75	21883	5.417	ug/l #	63
57) 1,3-Dichloropropane	10.75	76	3717	0.953	ug/l #	42
59) 2-Hexanone	10.75	43	56914	24.320	ug/l #	52
71) Bromoform	12.40	173	132	1.750	ug/l #	1
74) N-amyl acetate	12.02	43	2593	0.532	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	76409	25.199	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3168	0.354	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	76409	64.717	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060675.D

Acq: 24 Mar 2020 16:22

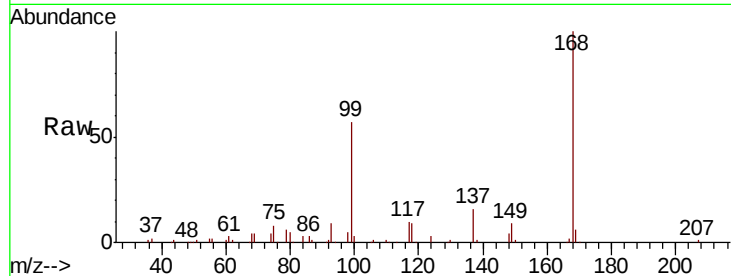
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 198636

Ion Ratio Lower Upper

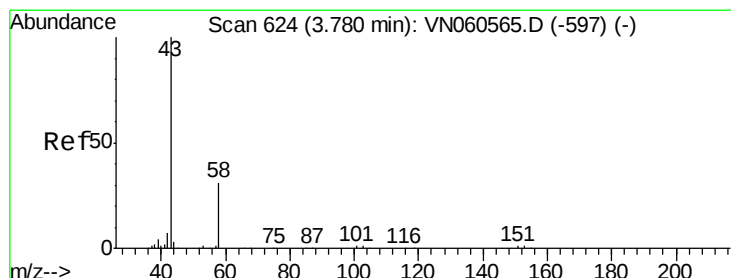
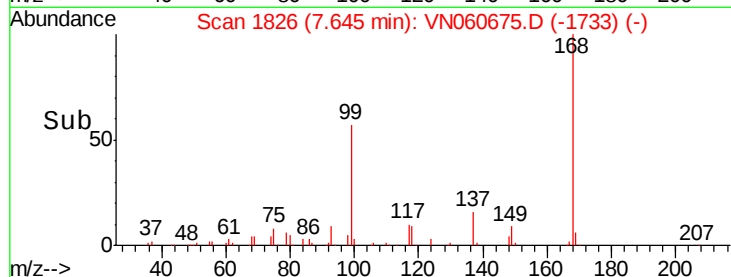
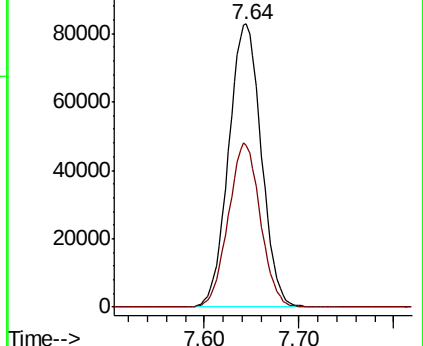
168 100

99 57.4 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 5.105 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060675.D

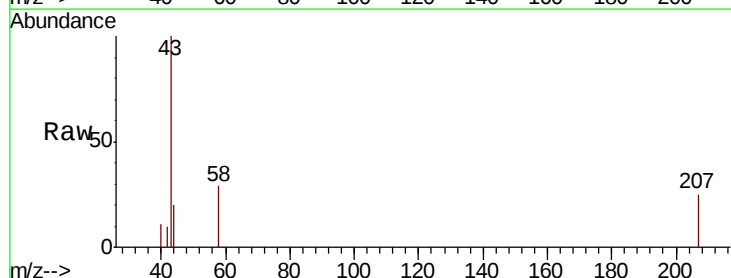
Acq: 24 Mar 2020 16:22

Tgt Ion: 43 Resp: 4931

Ion Ratio Lower Upper

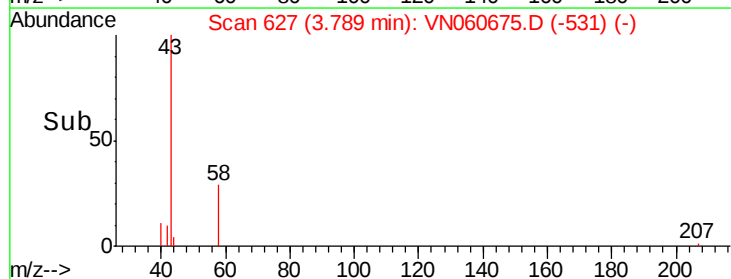
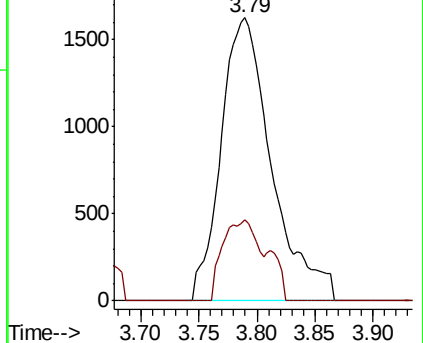
43 100

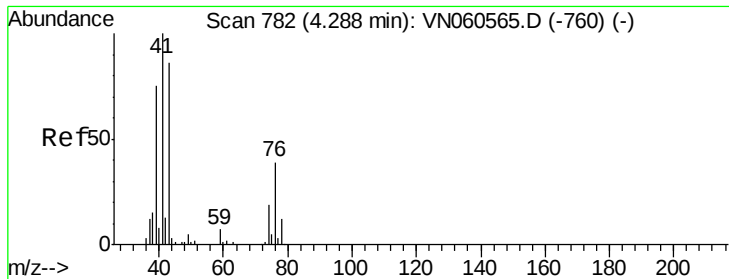
58 28.7 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

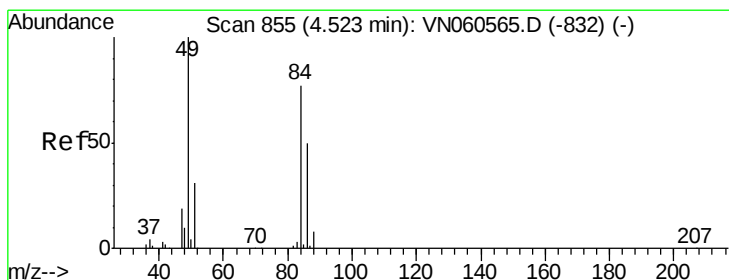
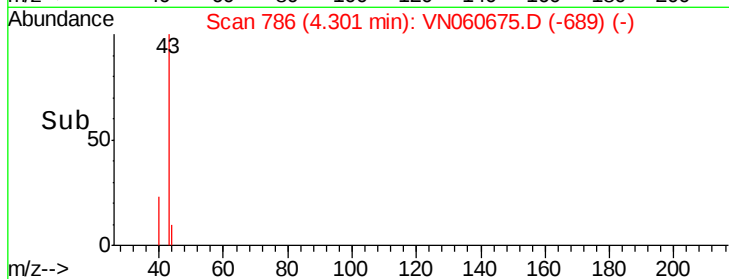
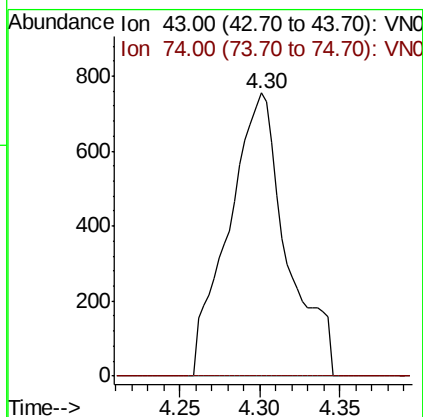
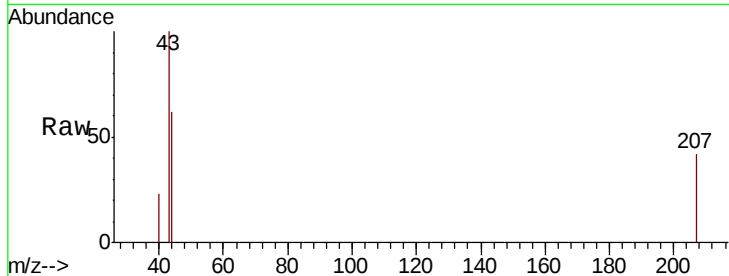




#18
Methyl Acetate
Concen: 0.692 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060675.D
Acq: 24 Mar 2020 16:22

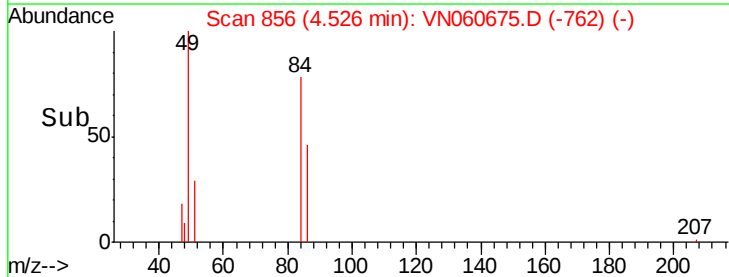
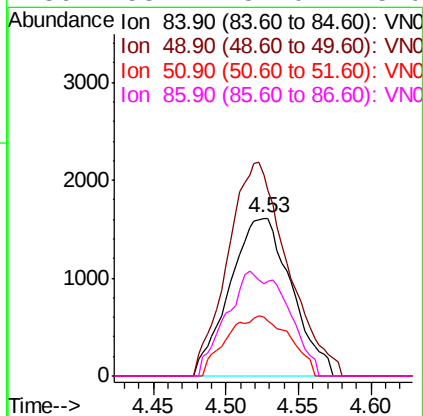
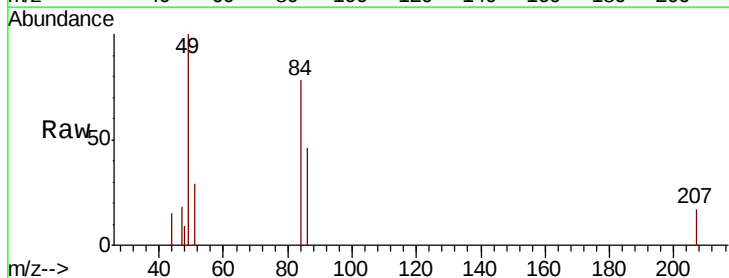
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1881
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 2.012 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060675.D
Acq: 24 Mar 2020 16:22

Tgt Ion: 84 Resp: 4780
Ion Ratio Lower Upper
84 100
49 127.8 103.3 154.9
51 37.2 31.6 47.4
86 58.7 52.0 78.0

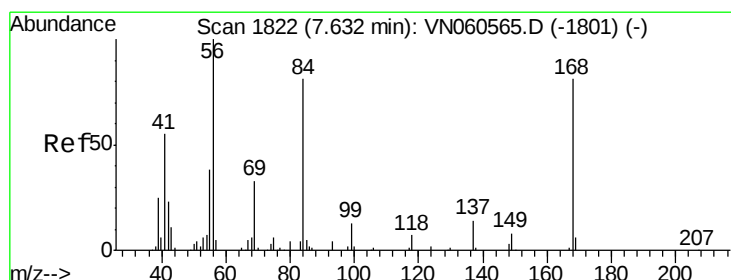
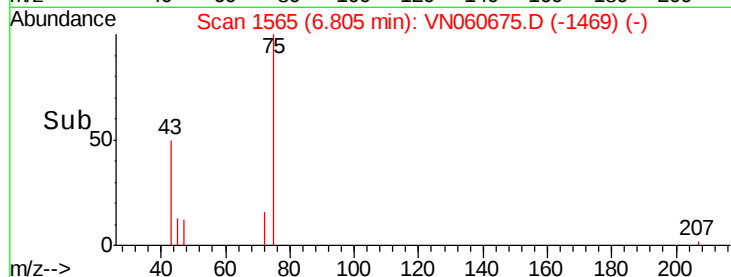
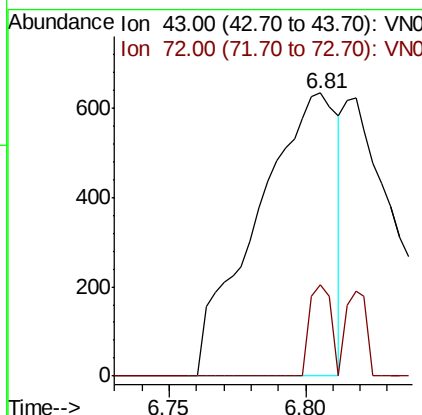
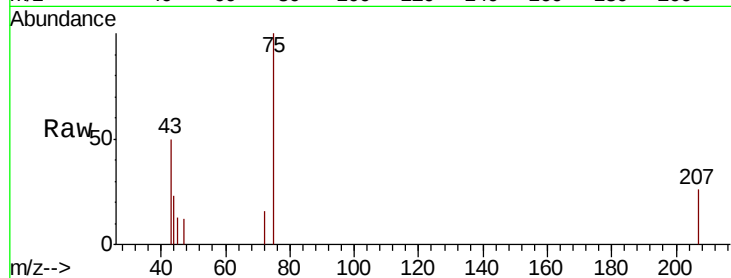




#25
2-Butanone
Concen: 0.825 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060675.D
Acq: 24 Mar 2020 16:22

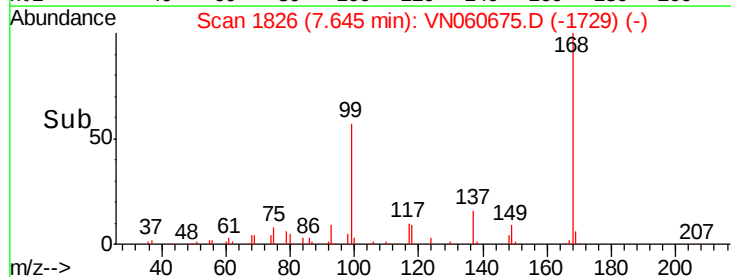
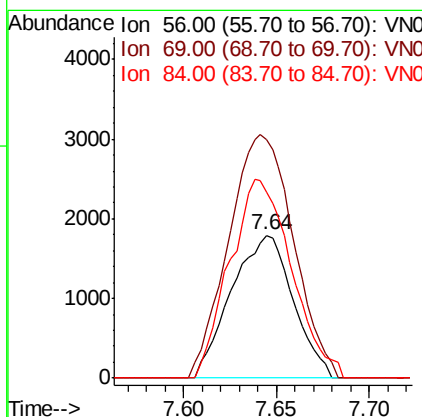
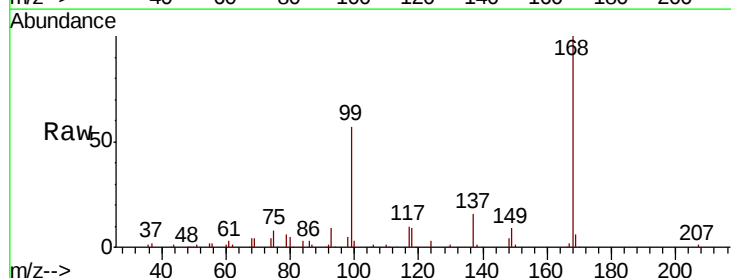
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1290
Ion Ratio Lower Upper
43 100
72 32.4 20.4 30.6#



#31
Cyclohexane
Concen: 0.948 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060675.D
Acq: 24 Mar 2020 16:22

Tgt Ion: 56 Resp: 4163
Ion Ratio Lower Upper
56 100
69 167.1 26.6 40.0#
84 130.1 64.3 96.5#

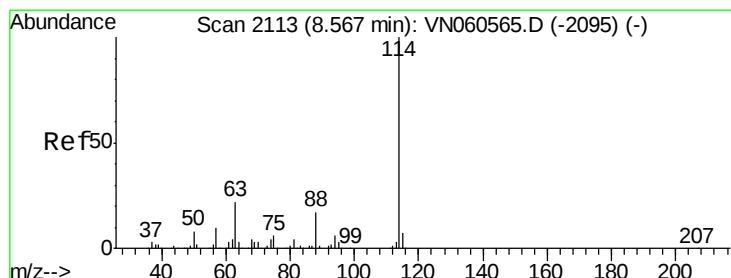
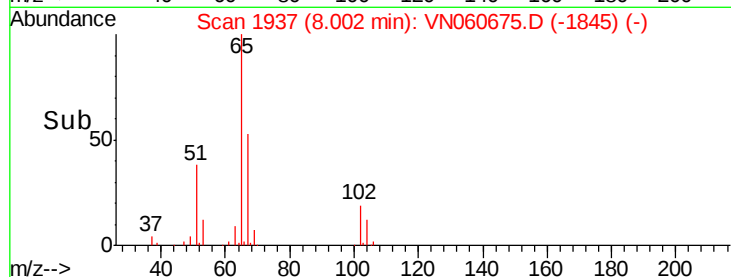
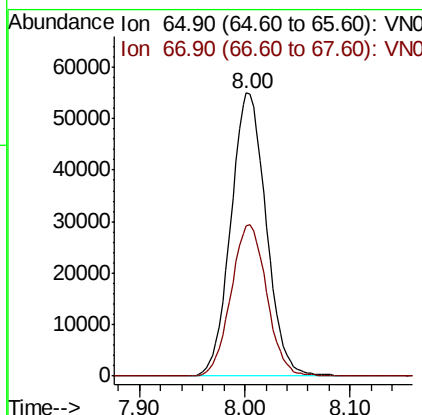
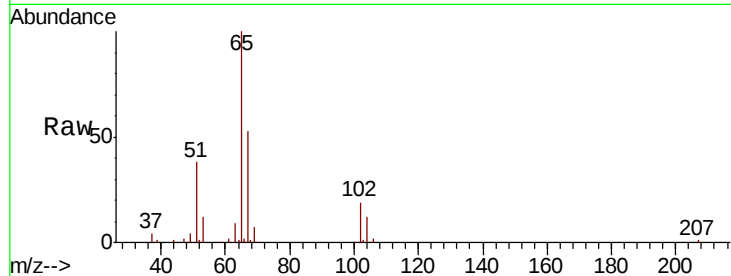




#33
 1,2-Dichloroethane-d4
 Concen: 46.831 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060675.D
 Acq: 24 Mar 2020 16:22

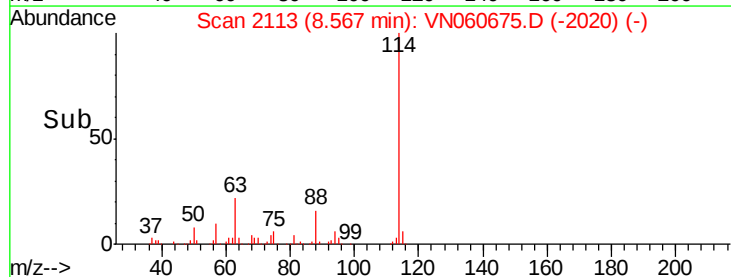
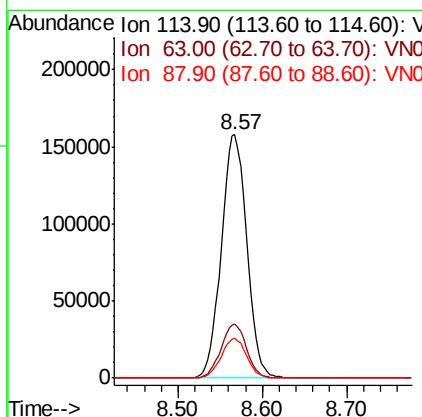
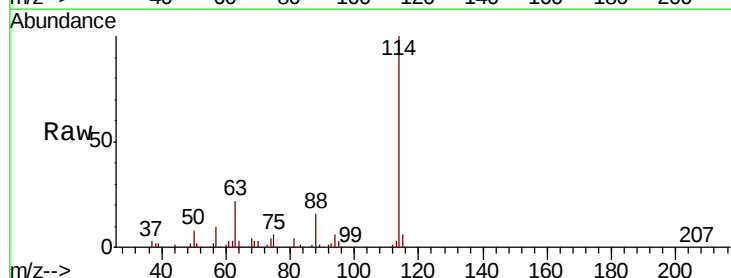
Instrument :
 MSVOA_N
 ClientSampleId :

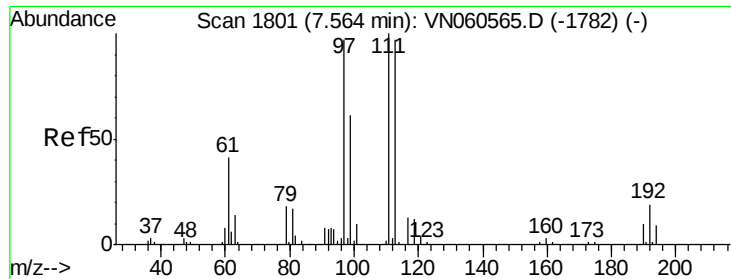
Tot Ion: 65 Resp: 127699
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060675.D
 Acq: 24 Mar 2020 16:22

Tgt Ion: 114 Resp: 330854
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 43.8
 88 16.3 0.0 33.0

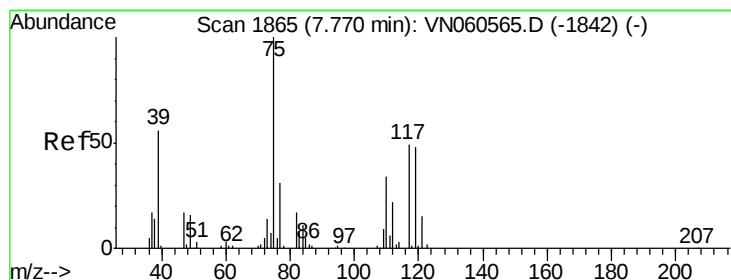
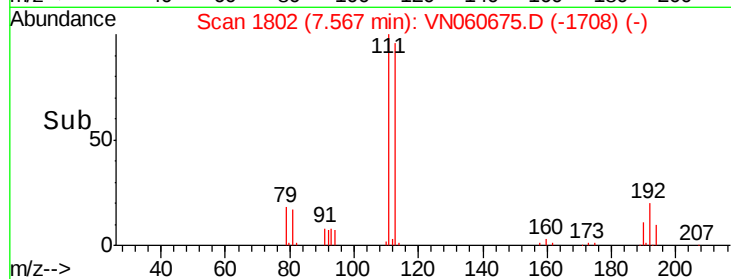
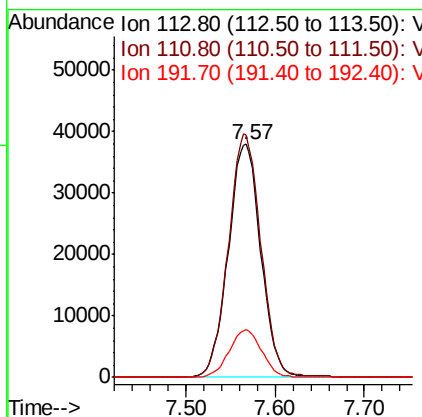
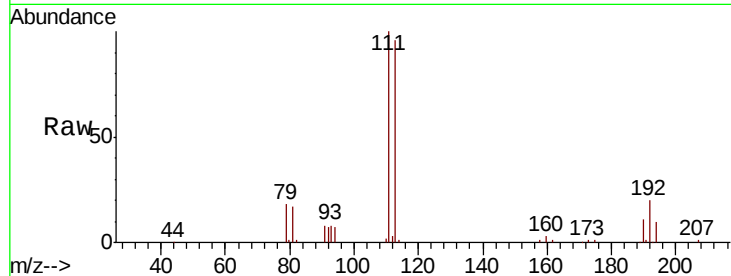




#35
 Dibromofluoromethane
 Concen: 48.126 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060675.D
 Acq: 24 Mar 2020 16:22

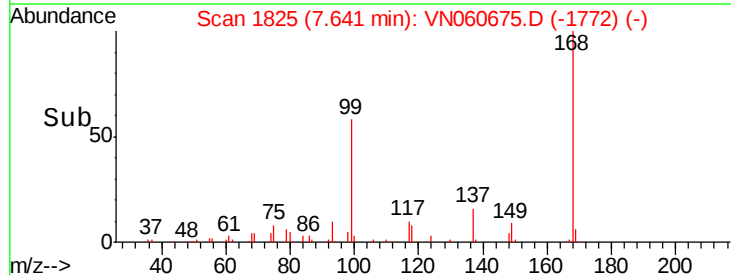
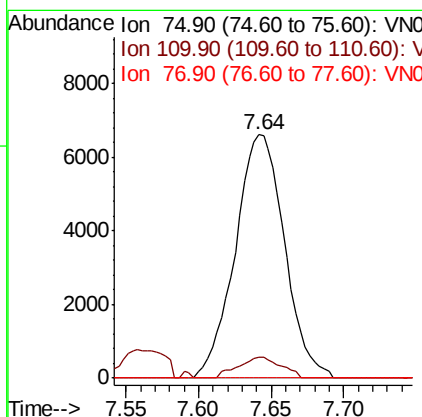
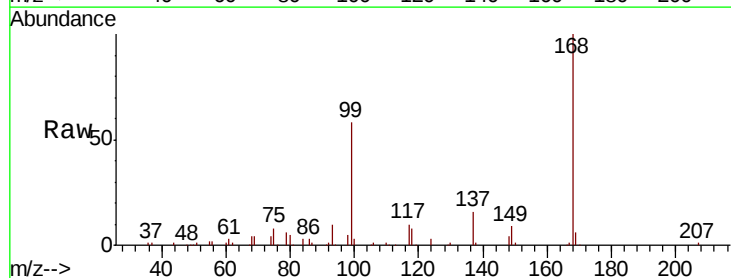
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:113 Resp: 96279
 Ion Ratio Lower Upper
 113 100
 111 103.9 82.9 124.3
 192 20.2 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.878 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060675.D
 Acq: 24 Mar 2020 16:22

Tgt Ion: 75 Resp: 15626
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.9 50.6#
 77 0.0 24.6 36.8#

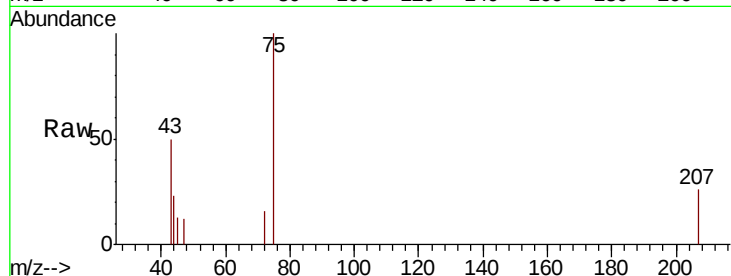




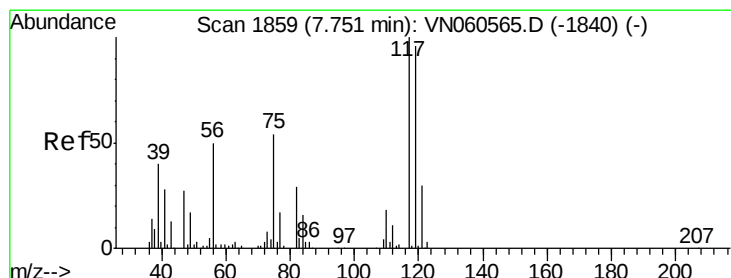
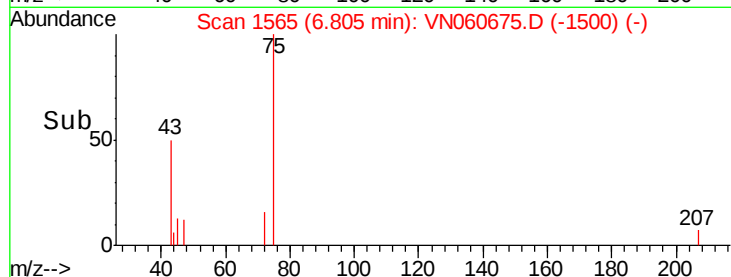
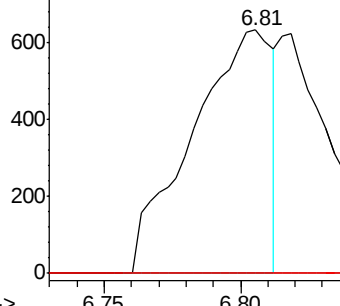
#37
Ethyl Acetate
Concen: 0.373 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060675.D
Acq: 24 Mar 2020 16:22

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1290
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#

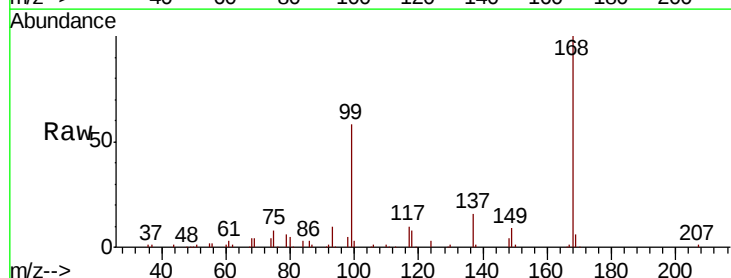


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

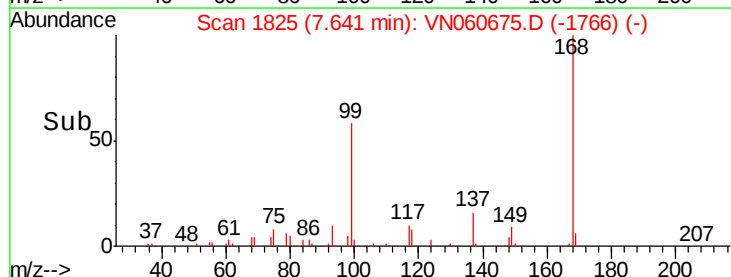
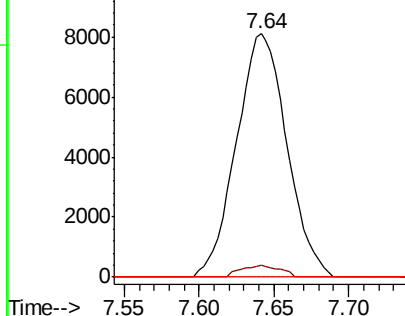


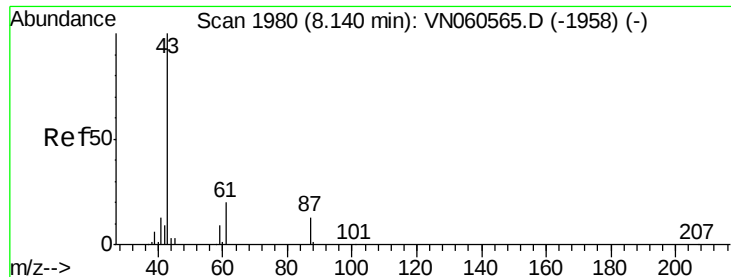
#38
Carbon Tetrachloride
Concen: 6.617 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060675.D
Acq: 24 Mar 2020 16:22

Tgt Ion: 117 Resp: 19000
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: 9.420 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060675.D

Acq: 24 Mar 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

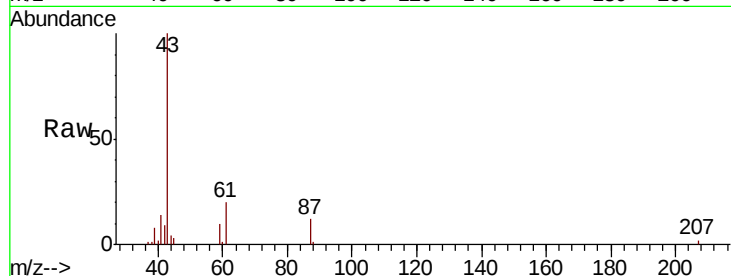
Tot Ion: 43 Resp: 53776

Ion Ratio Lower Upper

43 100

61 19.3 20.7 31.1#

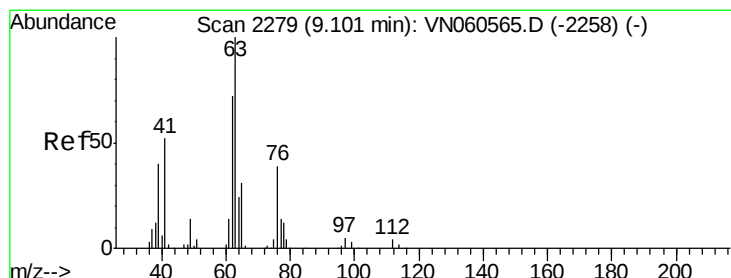
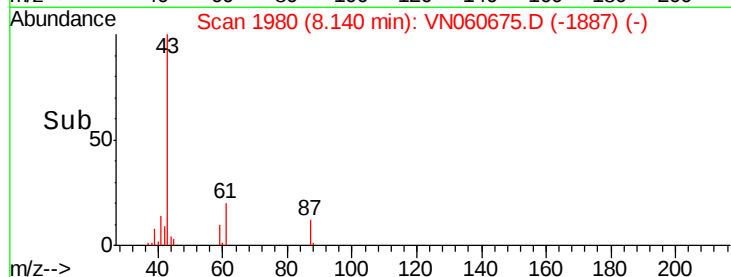
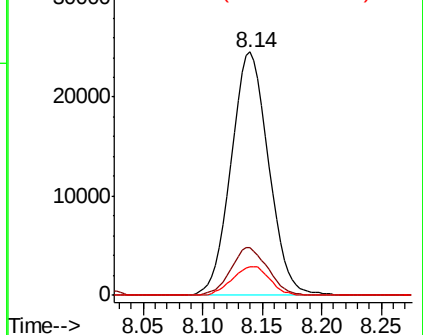
87 11.7 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060675.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060675.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060675.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.388 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060675.D

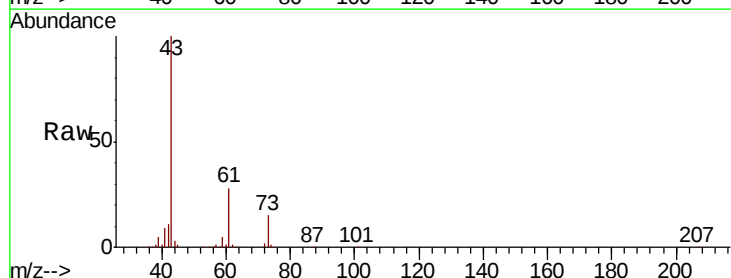
Acq: 24 Mar 2020 16:22

Tgt Ion: 63 Resp: 991

Ion Ratio Lower Upper

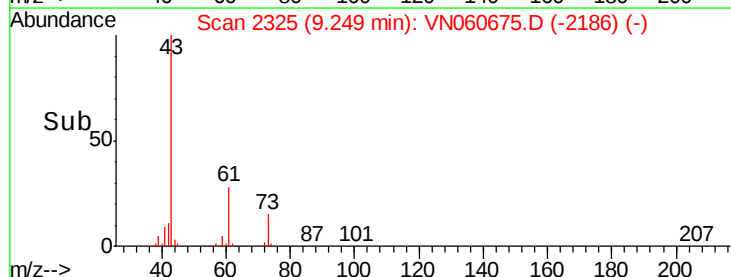
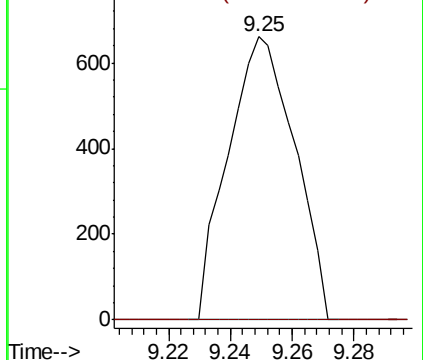
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060675.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060675.D (-2186) (-)

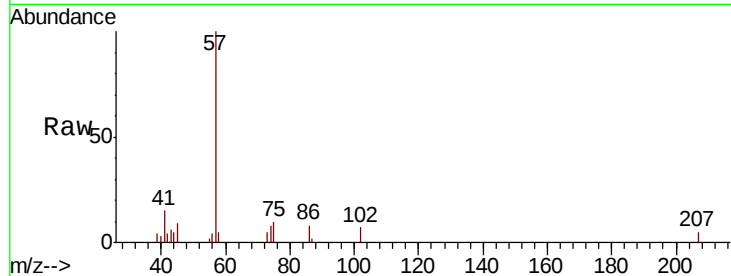




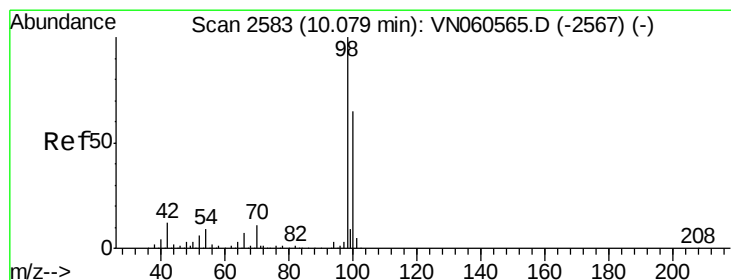
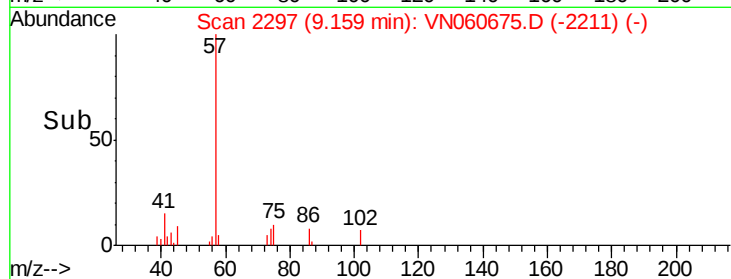
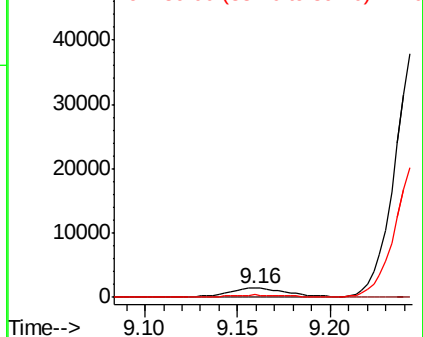
#48
Methvl methacrylate
Concen: 1.212 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060675.D
Acq: 24 Mar 2020 16:22

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3080
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#

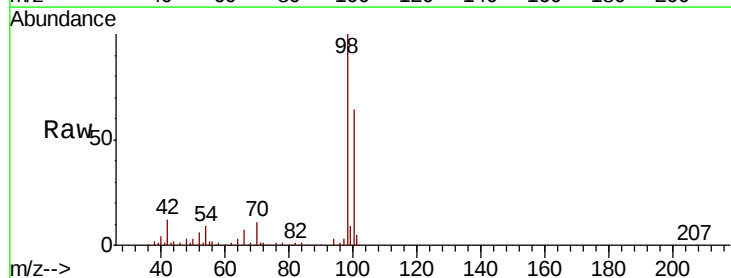


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

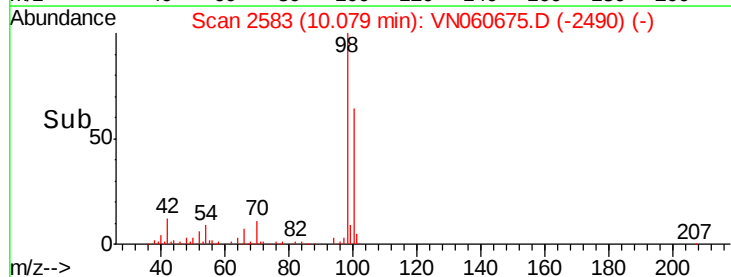
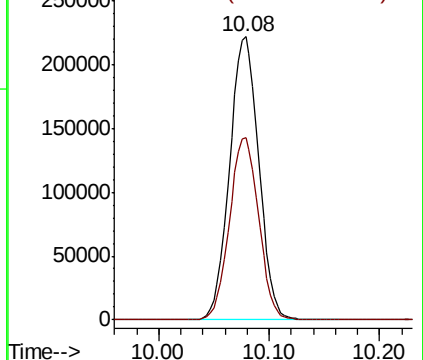


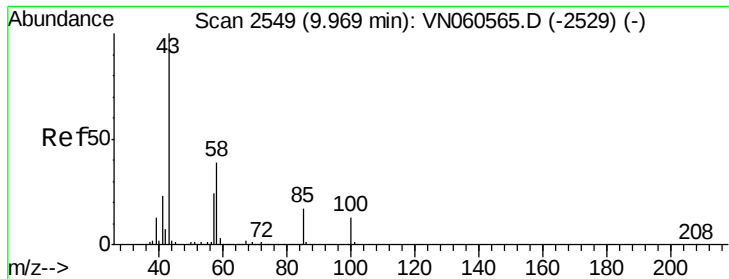
#50
Toluene-d8
Concen: 49.813 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060675.D
Acq: 24 Mar 2020 16:22

Tgt Ion: 98 Resp: 407052
Ion Ratio Lower Upper
98 100
100 64.4 51.8 77.8



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

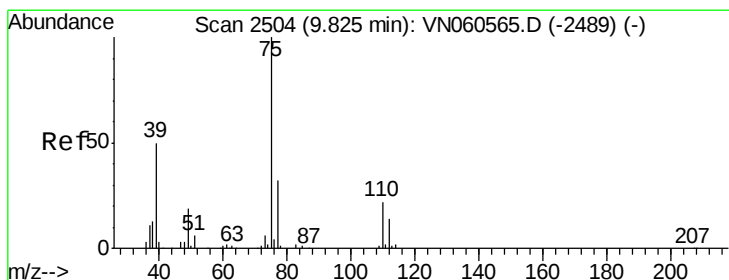
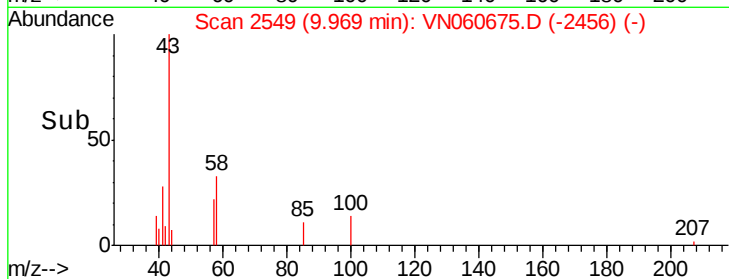
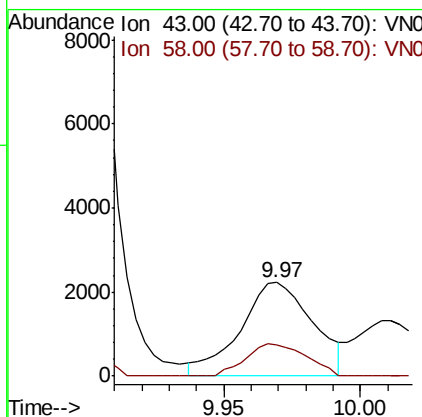
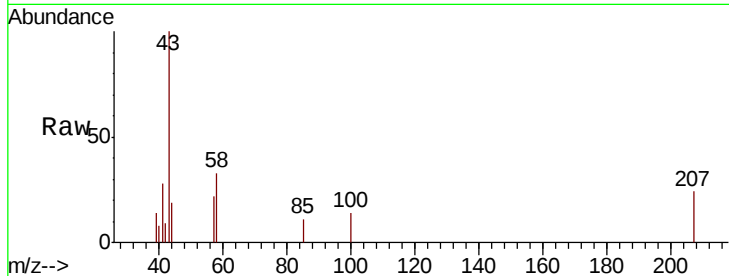




#51
 4-Methyl-2-Pentanone
 Concen: 1.271 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN060675.D
 Acq: 24 Mar 2020 16:22

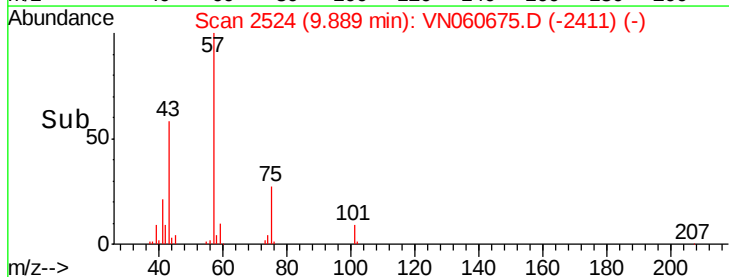
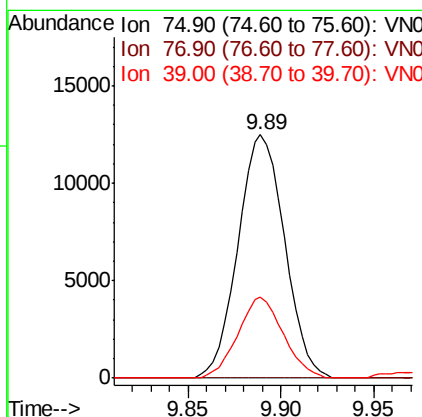
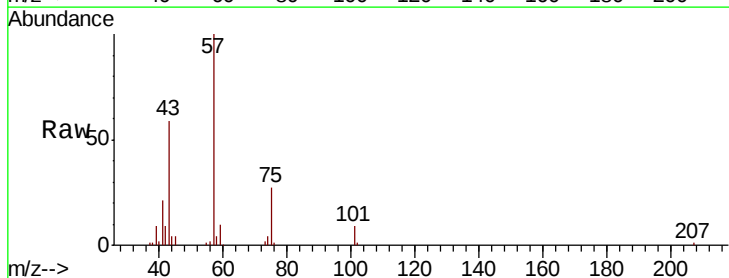
Instrument :
 MSVOA_N
 ClientSampled :

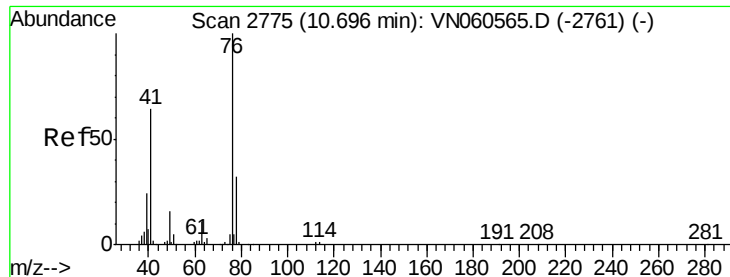
Tot Ion: 43 Resp: 4128
 Ion Ratio Lower Upper
 43 100
 58 28.7 30.8 46.2#



#54
 cis-1,3-Dichloropropene
 Concen: 5.417 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060675.D
 Acq: 24 Mar 2020 16:22

Tgt Ion: 75 Resp: 21883
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 33.4 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 0.953 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060675.D

Acq: 24 Mar 2020 16:22

Instrument :

MSVOA_N

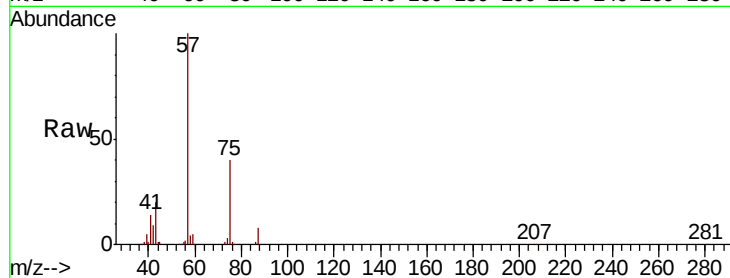
ClientSampled :

Tot Ion: 76 Resp: 3717

Ion Ratio Lower Upper

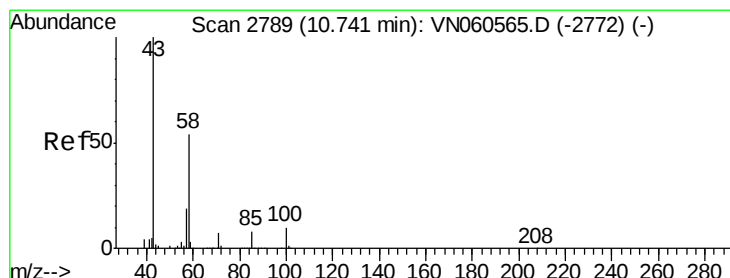
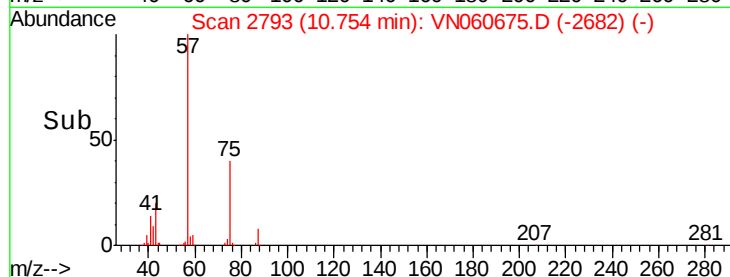
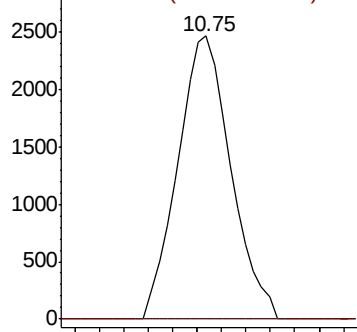
76 100

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: 24.320 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060675.D

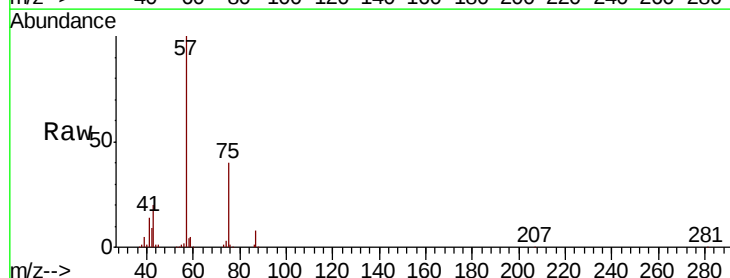
Acq: 24 Mar 2020 16:22

Tgt Ion: 43 Resp: 56914

Ion Ratio Lower Upper

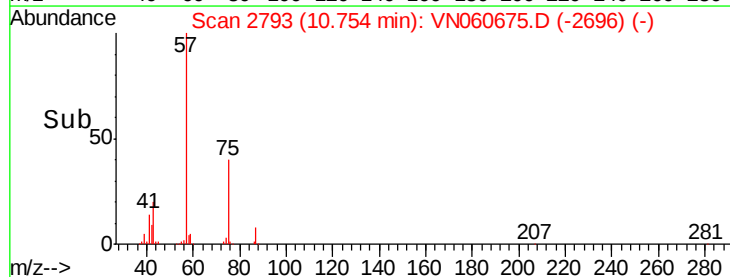
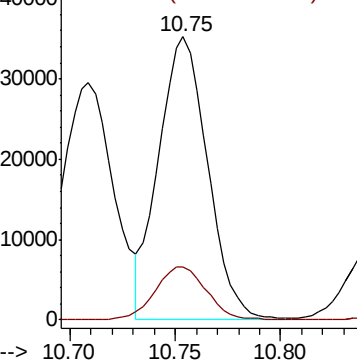
43 100

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: 50.386 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060675.D

Acq: 24 Mar 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

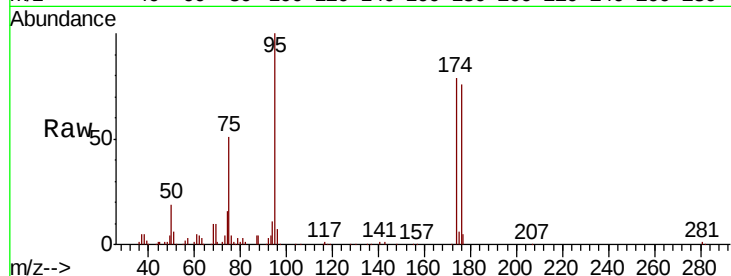
Tot Ion: 95 Resp: 150894

Ion Ratio Lower Upper

95 100

174 78.7 0.0 157.6

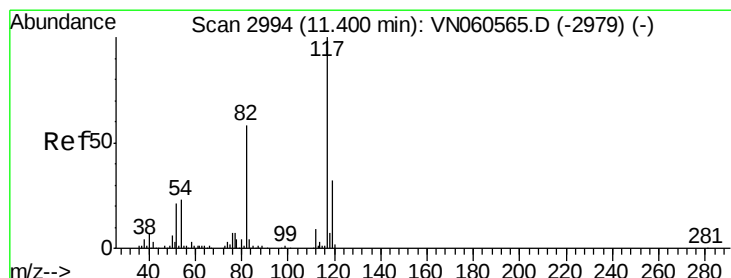
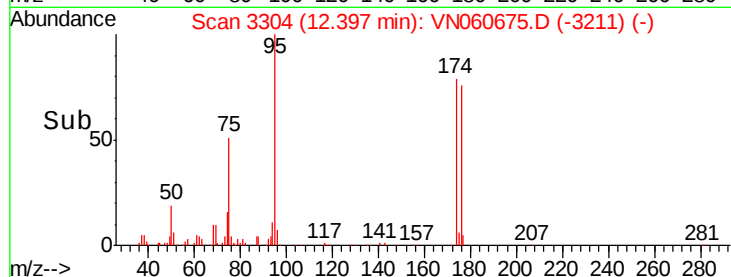
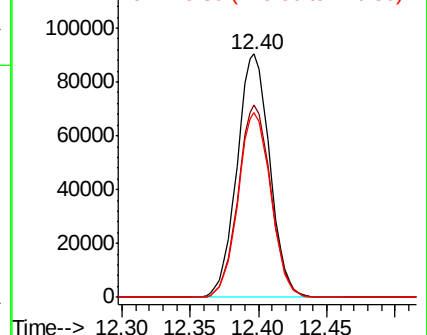
176 75.6 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060675.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060675.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060675.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060675.D

Acq: 24 Mar 2020 16:22

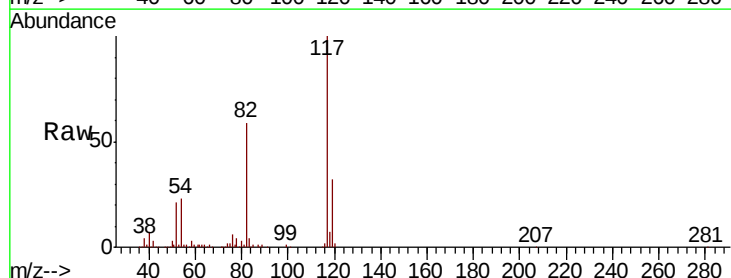
Tgt Ion: 117 Resp: 308384

Ion Ratio Lower Upper

117 100

82 59.5 46.7 70.1

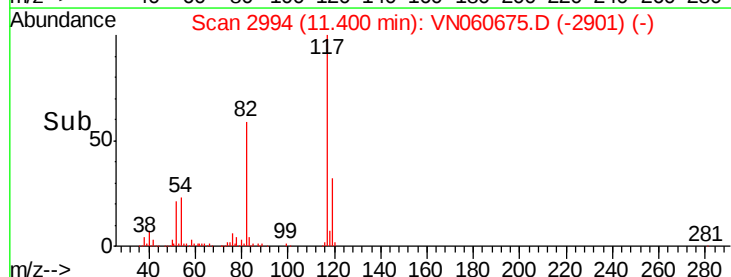
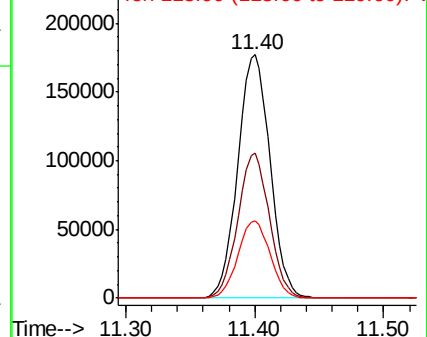
119 31.8 25.5 38.3

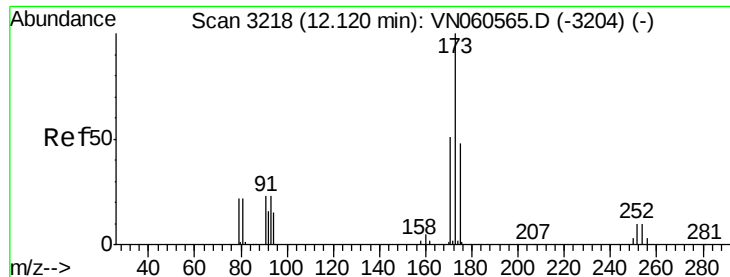


Abundance Ion 116.90 (116.60 to 117.60): VN060675.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060675.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060675.D (-2979) (-)





#71

Bromoform

Concen: 1.750 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN060675.D

Acq: 24 Mar 2020 16:22

Instrument :

MSVOA_N

ClientSampleId :

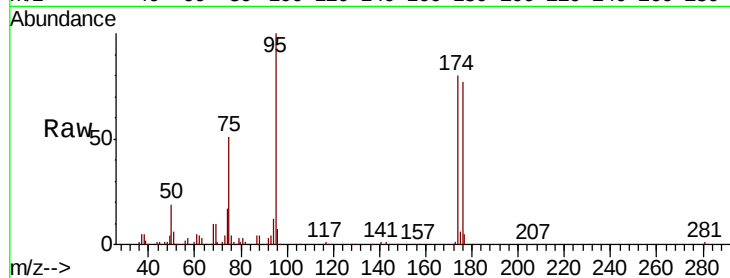
Tot Ion:173 Resp: 132

Ion Ratio Lower Upper

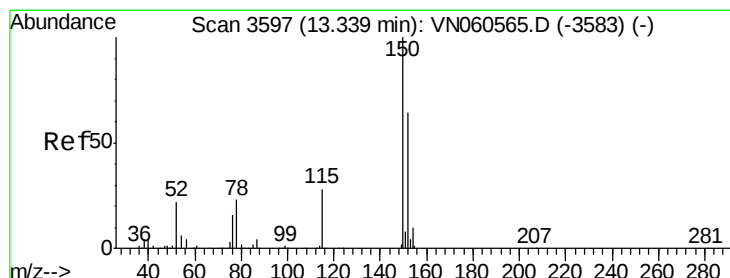
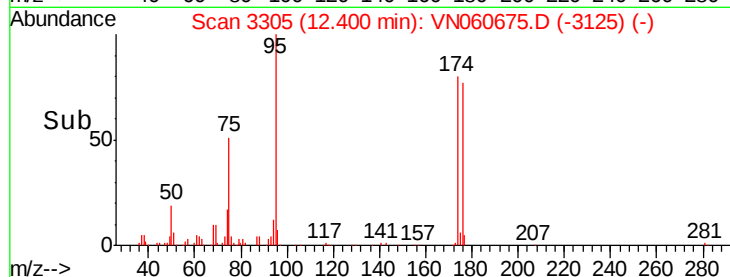
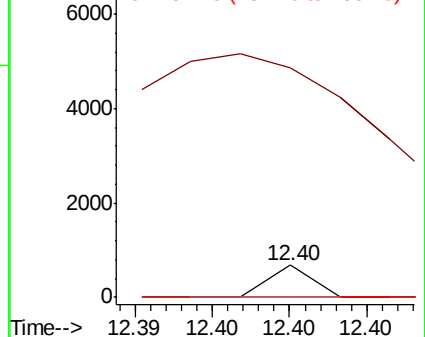
173 100

175 5522.7 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: VN060675.D

Acq: 24 Mar 2020 16:22

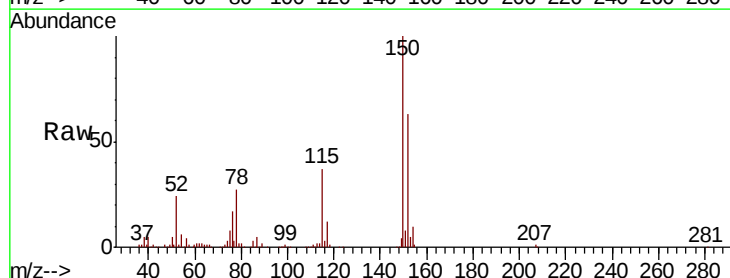
Tgt Ion:152 Resp: 140527

Ion Ratio Lower Upper

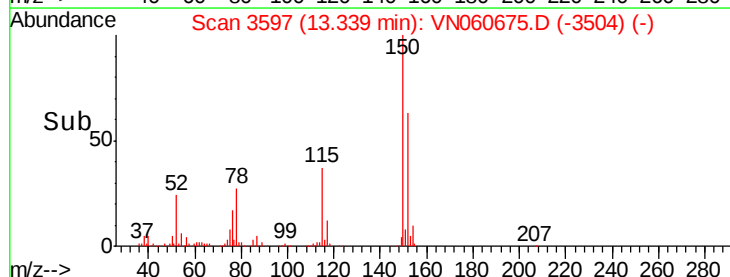
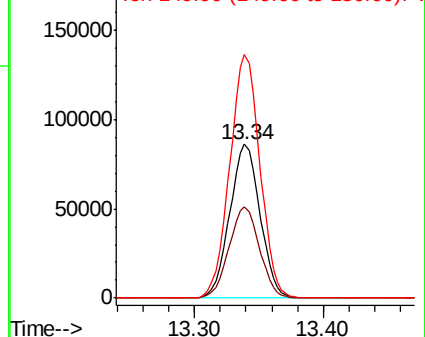
152 100

115 59.5 30.2 90.6

150 157.6 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: 0.532 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060675.D

Acq: 24 Mar 2020 16:22

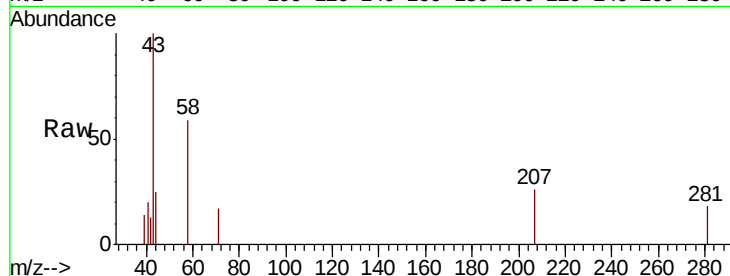
Instrument :

MSVOA_N

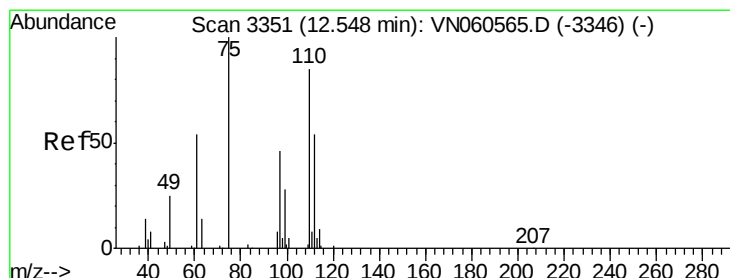
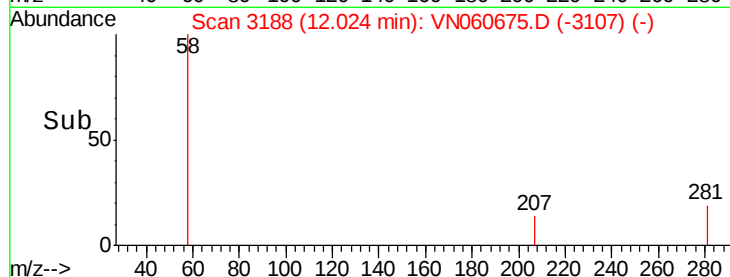
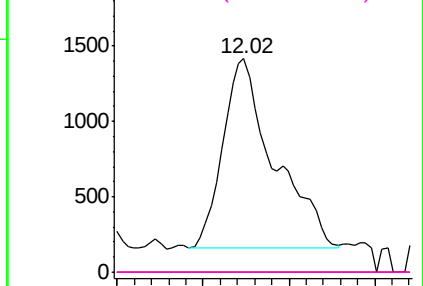
ClientSampleId :

Tot Ion: 43 Resp: 2593

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): VNO
 Ion 70.00 (69.70 to 70.70): VNO
 Ion 55.00 (54.70 to 55.70): VNO
 Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 25.199 ug/l

RT: 12.40 min Scan# 3304

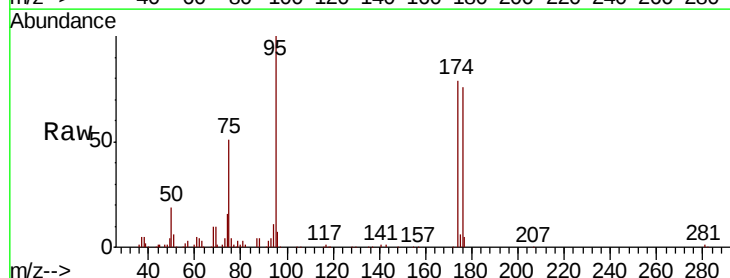
Delta R.T. -0.15 min

Lab File: VN060675.D

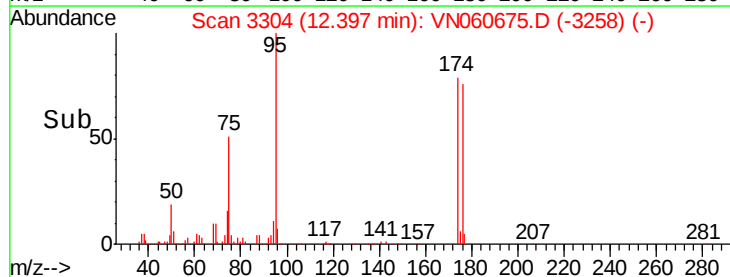
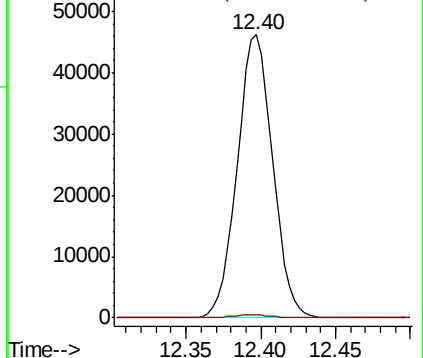
Acq: 24 Mar 2020 16:22

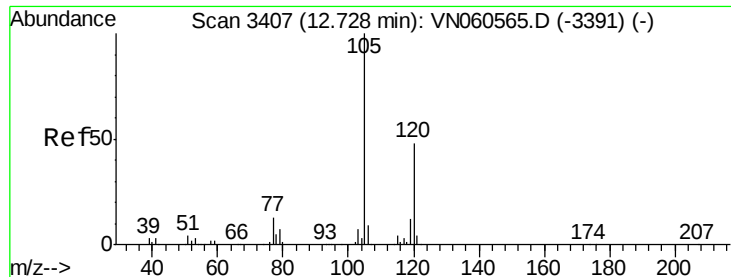
Tgt Ion: 75 Resp: 76409

Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.354 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060675.D

Acq: 24 Mar 2020 16:22

Instrument :

MSVOA_N

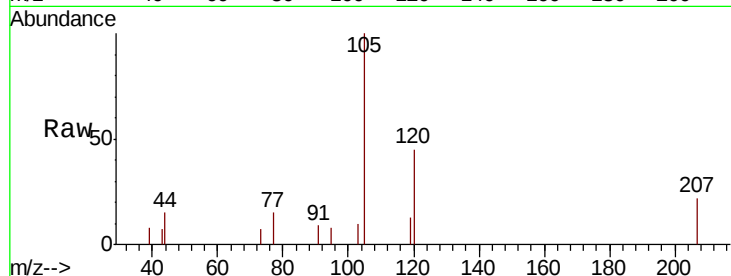
ClientSampled :

Tot Ion:105 Resp: 3168

Ion Ratio Lower Upper

105 100

120 46.1 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

2000

1500

1000

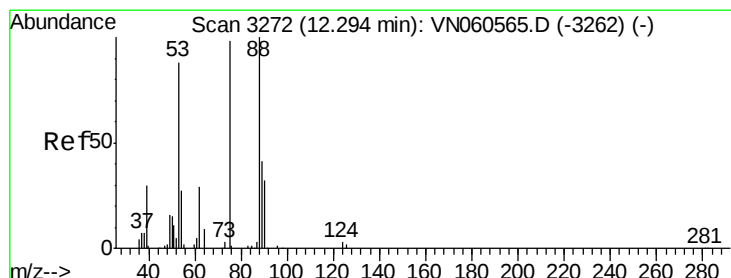
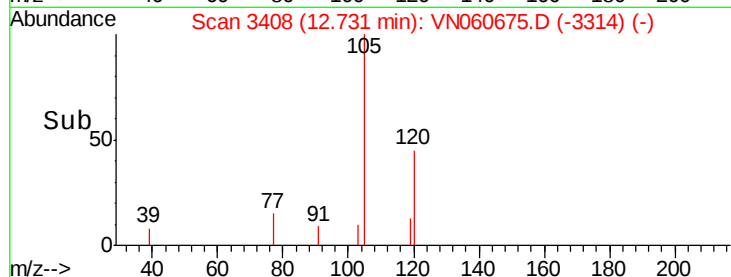
500

0

Time-->

12.70

12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 64.717 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060675.D

Acq: 24 Mar 2020 16:22

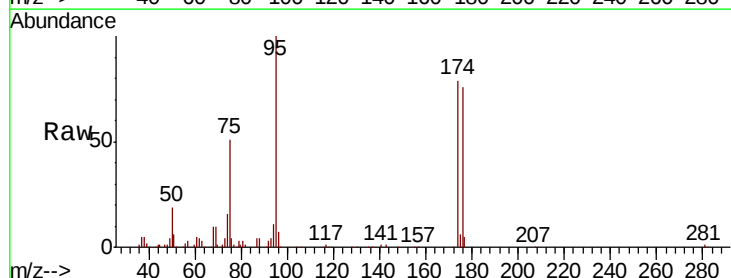
Tgt Ion: 75 Resp: 76409

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): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V

12.40

60000

50000

40000

30000

20000

10000

0

Time-->

12.35

12.45

