

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\
 Data File : VN060824.D
 Acq On : 2 Apr 2020 15:40
 Operator : JC/MD
 Sample : PB127948TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 07:43:18 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	197375	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	330479	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	310560	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	139240	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	127696	47.13	ug/l	0.00
Spiked Amount			Recovery	=	94.26%	
35) Dibromofluoromethane	7.56	113	97393	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
50) Toluene-d8	10.08	98	407080	49.87	ug/l	0.00
Spiked Amount			Recovery	=	99.74%	
62) 4-Bromofluorobenzene	12.40	95	151712	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	

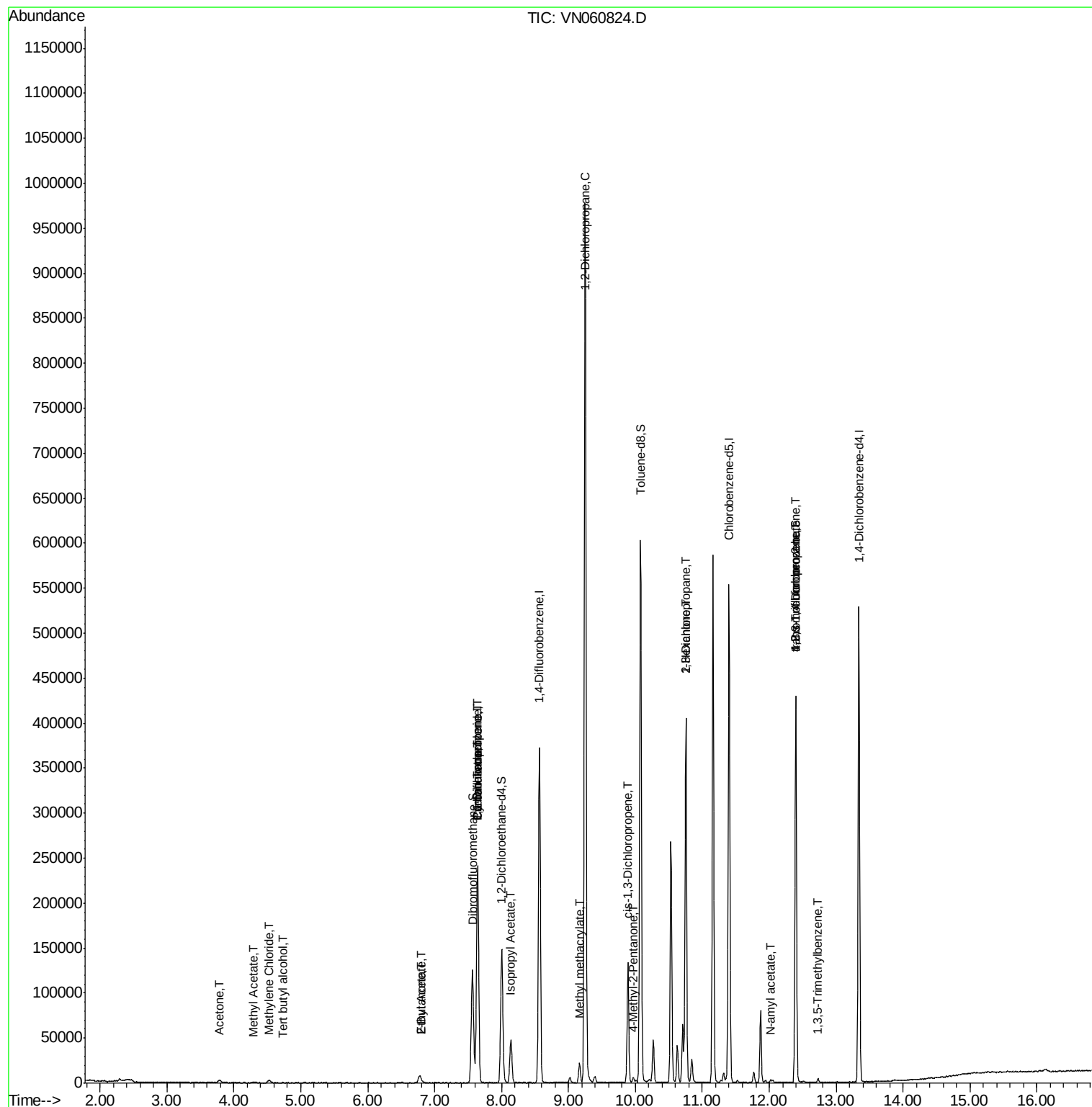
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	190	0.477	ug/l #	72
16) Acetone	3.78	43	5685	5.923	ug/l	98
18) Methyl Acetate	4.30	43	1908	0.706	ug/l #	57
20) Methylene Chloride	4.53	84	2100	0.889	ug/l	96
25) 2-Butanone	6.81	43	2521	1.623	ug/l	99
31) Cyclohexane	7.64	56	3980	0.912	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15459	4.831	ug/l #	49
37) Ethyl Acetate	6.81	43	2521	0.729	ug/l #	73
38) Carbon Tetrachloride	7.64	117	19008	6.627	ug/l #	16
43) Isopropyl Acetate	8.14	43	58056	10.181	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1058	0.415	ug/l #	43
48) Methyl methacrylate	9.17	41	3014	1.187	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4364	1.345	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	23872	5.916	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3882	0.997	ug/l #	42
59) 2-Hexanone	10.75	43	61044	26.115	ug/l #	53
74) N-amyl acetate	12.02	43	3624	0.751	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	76322	25.402	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2796	0.315	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	76322	65.241	ug/l #	13

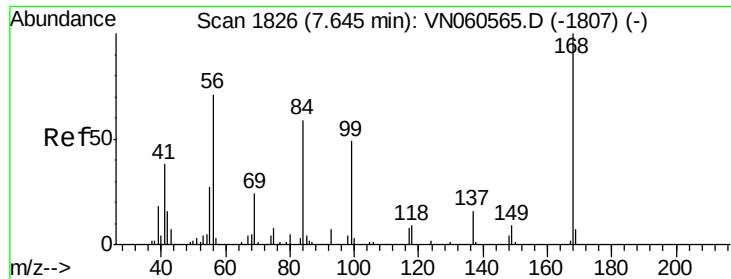
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060824.D

Acq: 2 Apr 2020 15:40

Instrument :

MSVOA_N

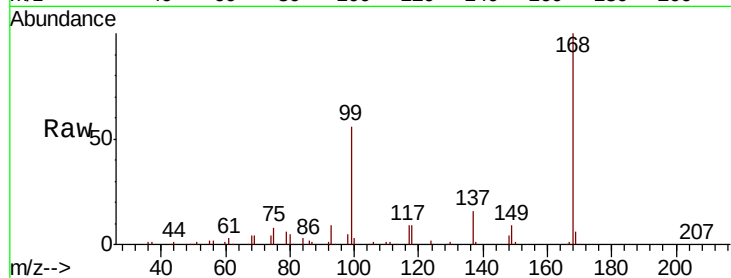
ClientSampleId :

Tot Ion:168 Resp: 197375

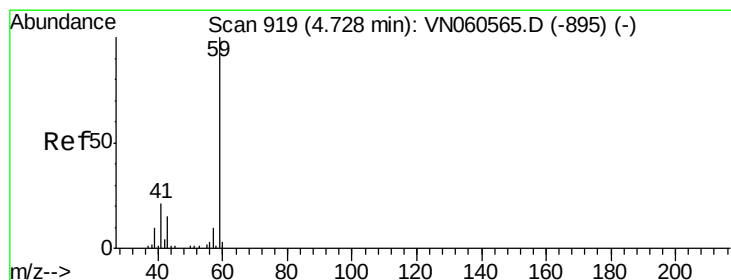
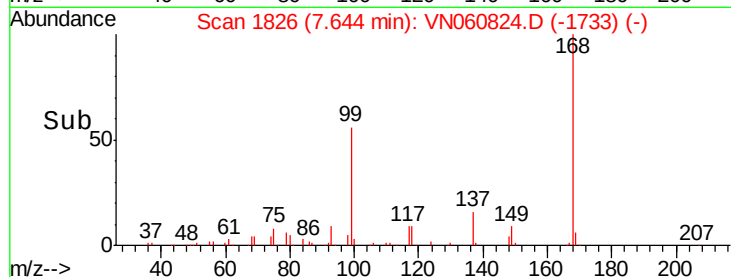
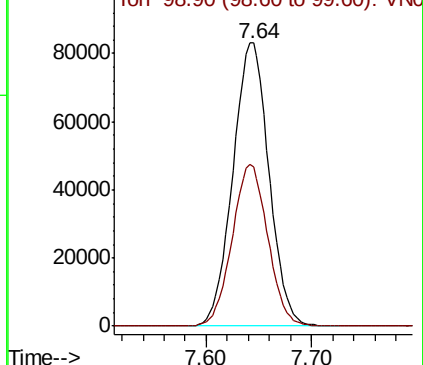
Ion Ratio Lower Upper

168 100

99 56.2 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060824.D (-1733) (-)



#11

Tert butyl alcohol

Concen: 0.477 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.00 min

Lab File: VN060824.D

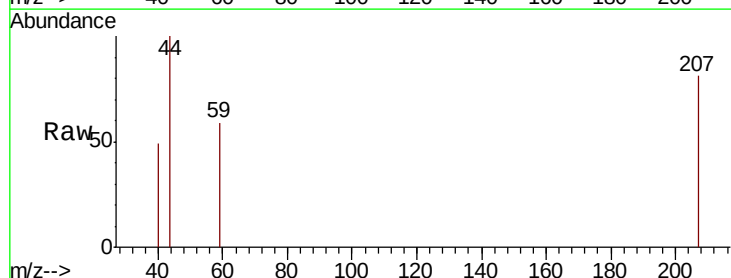
Acq: 2 Apr 2020 15:40

Tgt Ion: 59 Resp: 190

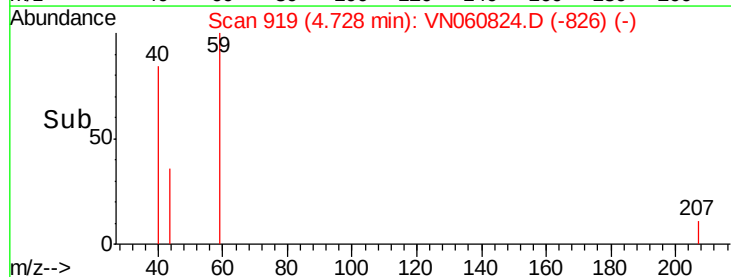
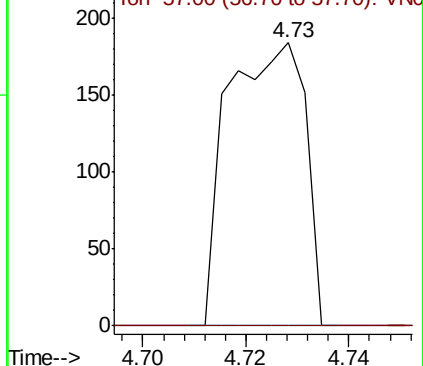
Ion Ratio Lower Upper

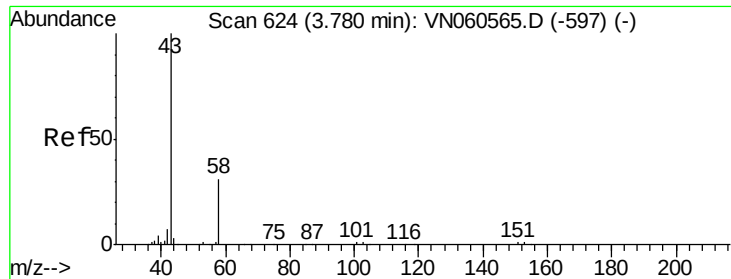
59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN060824.D (-826) (-)

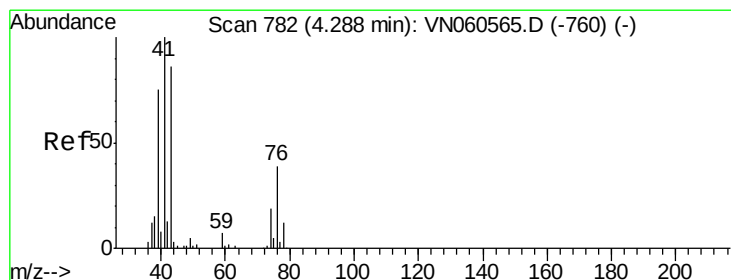
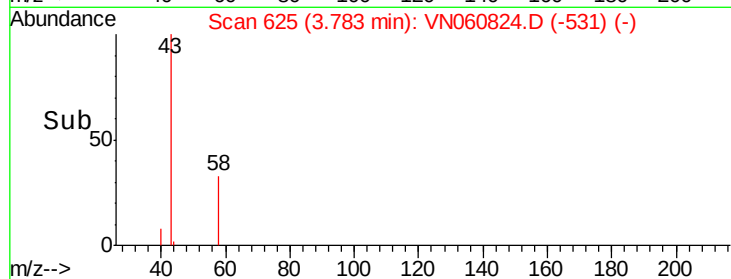
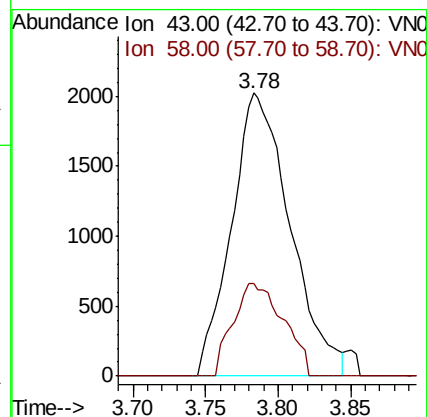
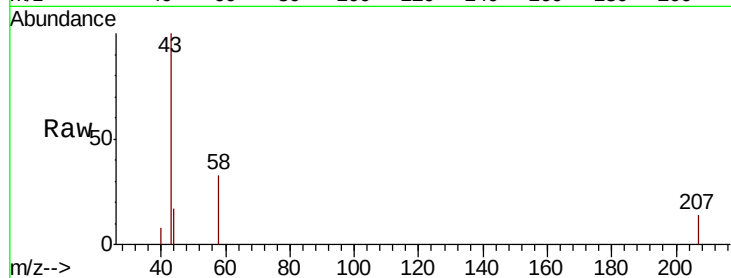




#16
Acetone
Concen: 5.923 ug/l
RT: 3.78 min Scan# 625
Delta R.T. 0.00 min
Lab File: VN060824.D
Acq: 2 Apr 2020 15:40

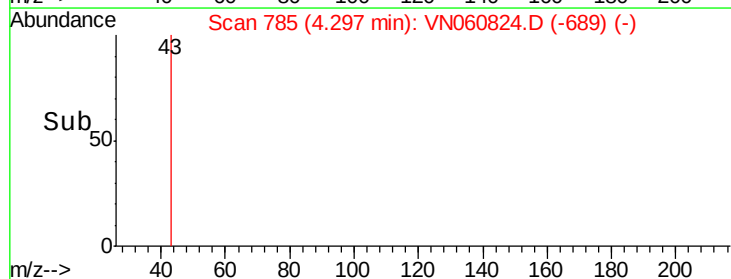
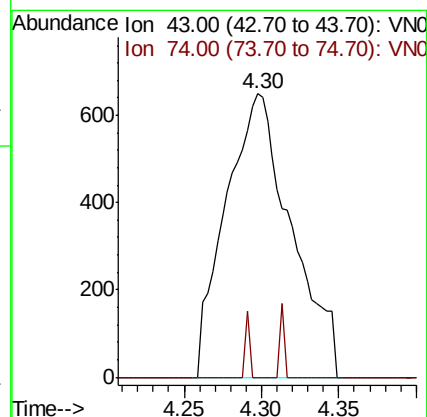
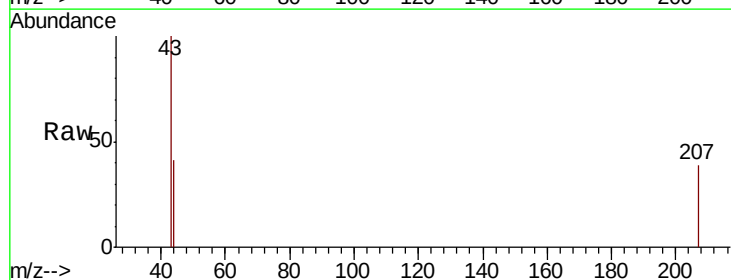
Instrument :
MSVOA_N
ClientSampled :

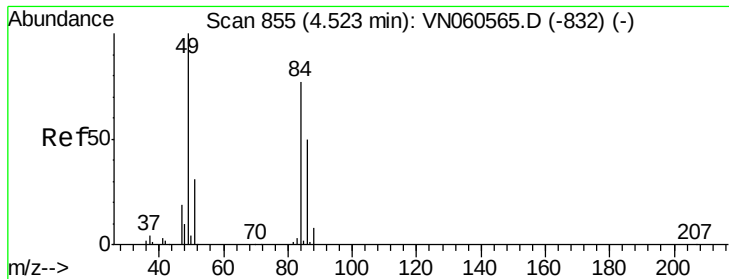
Tot Ion: 43 Resp: 5685
Ion Ratio Lower Upper
43 100
58 32.7 25.1 37.7



#18
Methyl Acetate
Concen: 0.706 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060824.D
Acq: 2 Apr 2020 15:40

Tgt Ion: 43 Resp: 1908
Ion Ratio Lower Upper
43 100
74 1.5 17.5 26.3#

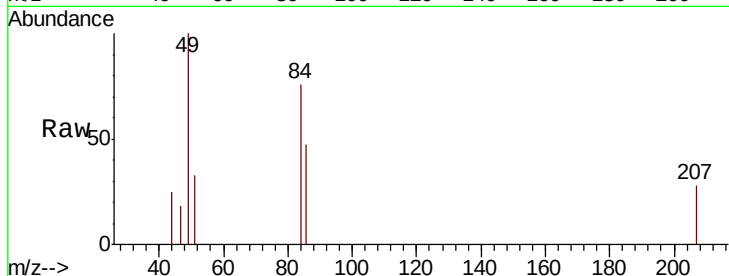




#20
Methvlene Chloride
Concen: 0.889 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060824.D
Acq: 2 Apr 2020 15:40

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	2100
Ion	Ratio	Lower	Upper
84	100		
49	131.9	103.3	154.9
51	44.0	31.6	47.4
86	61.4	52.0	78.0



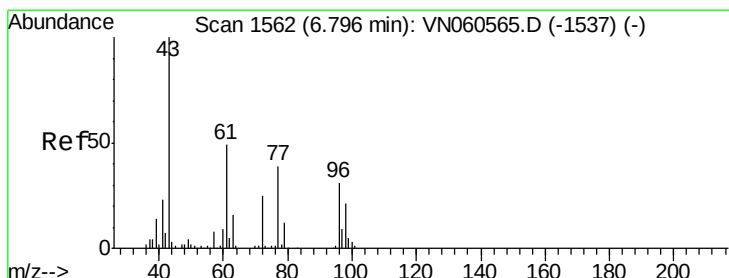
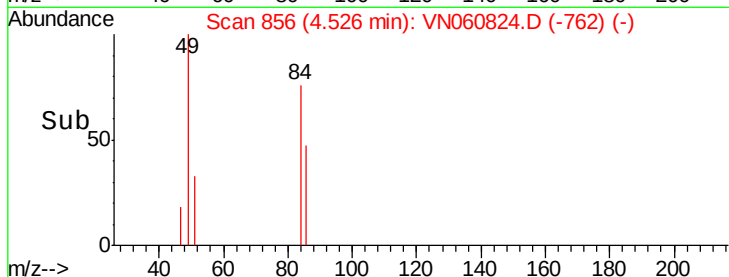
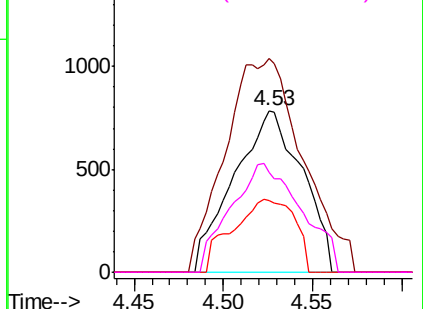
Abundance

Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

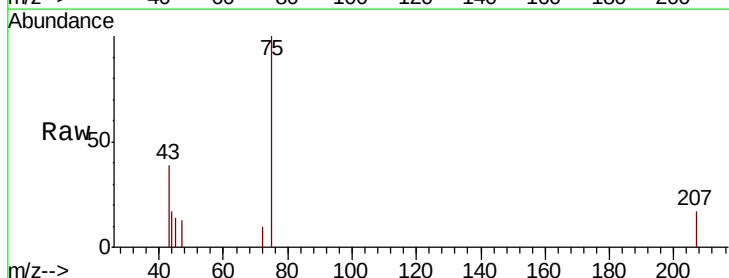
Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25
2-Butanone
Concen: 1.623 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060824.D
Acq: 2 Apr 2020 15:40

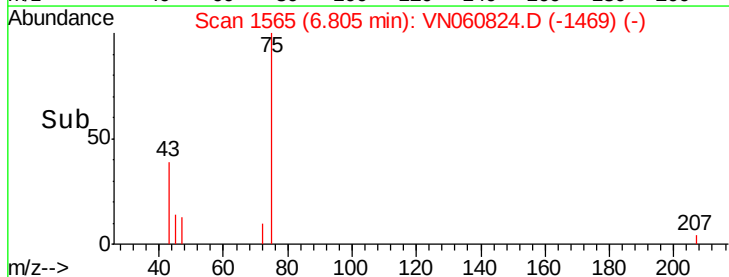
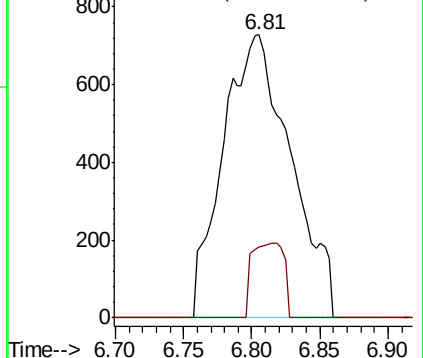
Tgt Ion:	43	Resp:	2521
Ion	Ratio	Lower	Upper
43	100		
72	25.0	20.4	30.6

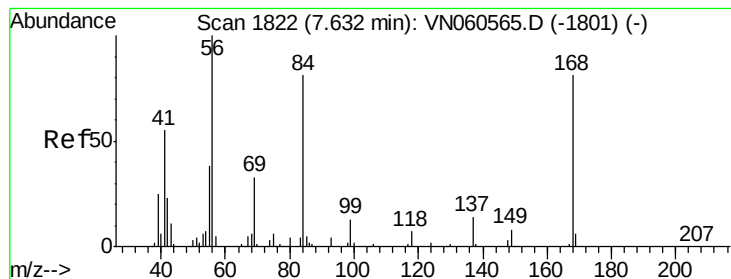


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 0.912 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060824.D

Acq: 2 Apr 2020 15:40

Instrument :

MSVOA_N

ClientSampled :

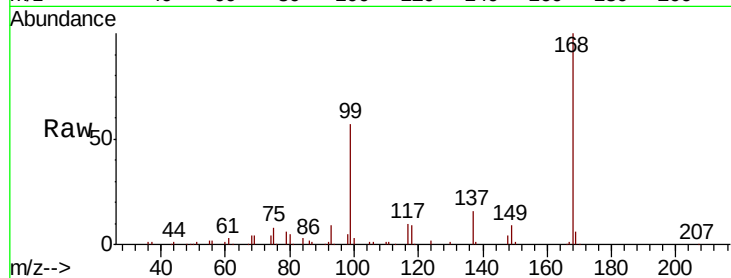
Tot Ion: 56 Resp: 3980

Ion Ratio Lower Upper

56 100

69 191.5 26.6 40.0#

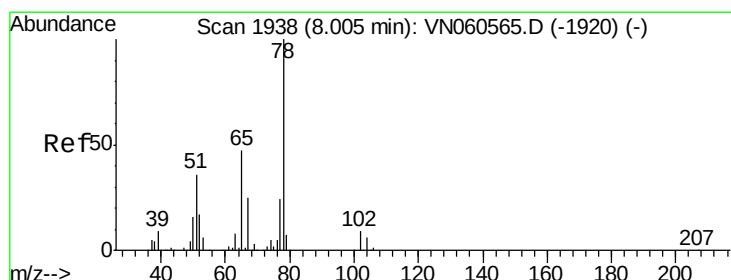
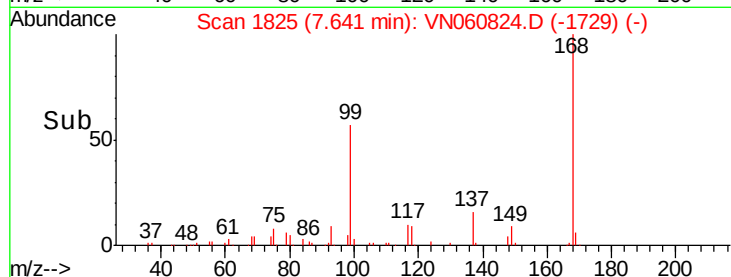
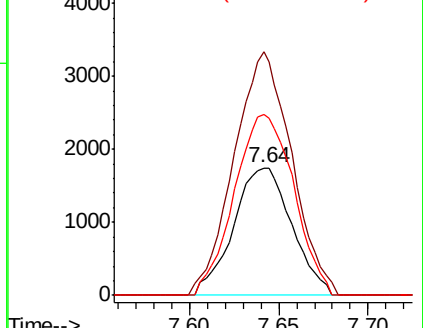
84 142.5 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060824.D (-1729) (-)

Ion 69.00 (68.70 to 69.70): VN060824.D (-1729) (-)

Ion 84.00 (83.70 to 84.70): VN060824.D (-1729) (-)



#33

1,2-Dichloroethane-d4

Concen: 47.129 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060824.D

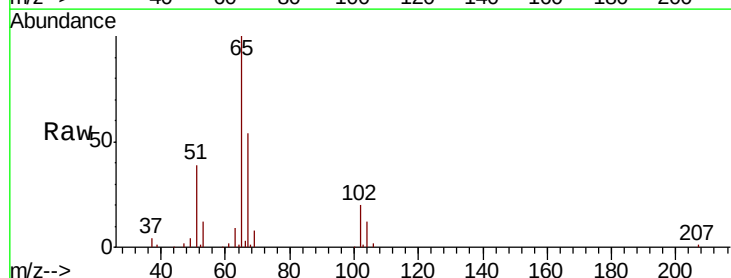
Acq: 2 Apr 2020 15:40

Tgt Ion: 65 Resp: 127696

Ion Ratio Lower Upper

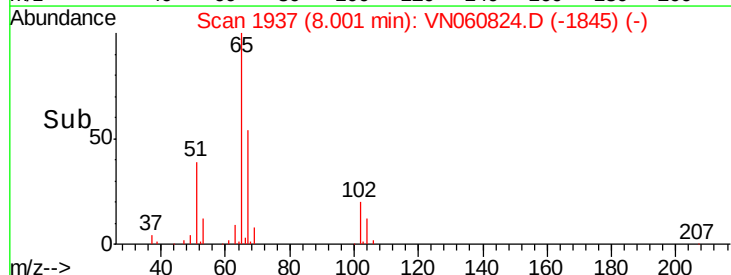
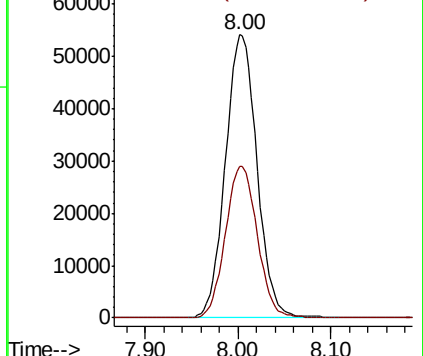
65 100

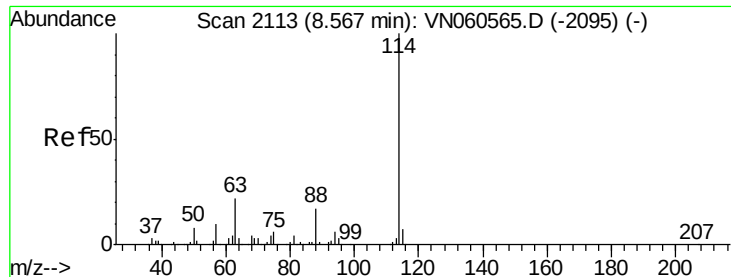
67 54.1 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060824.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060824.D (-1845) (-)

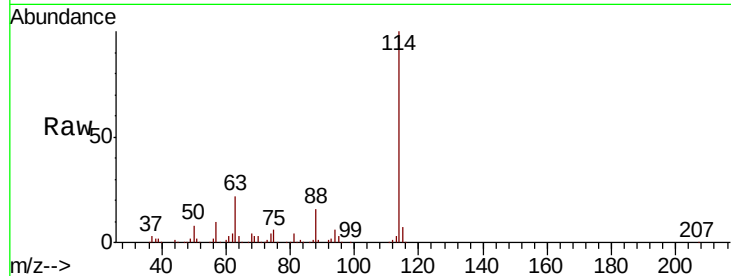




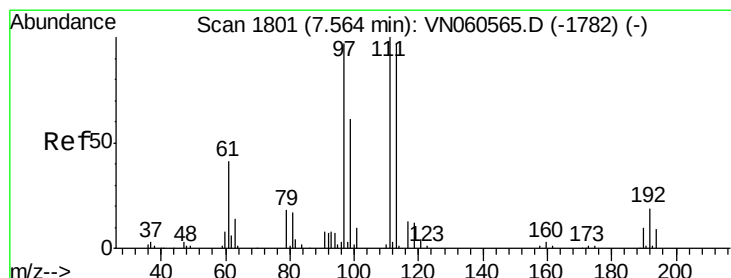
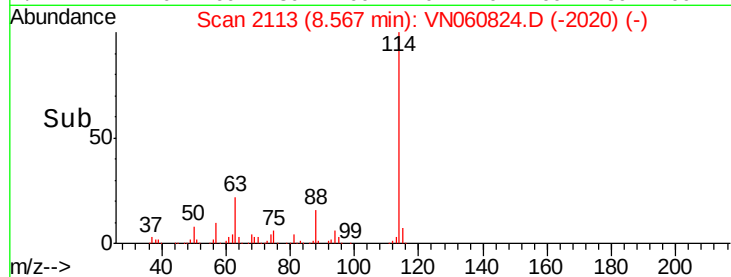
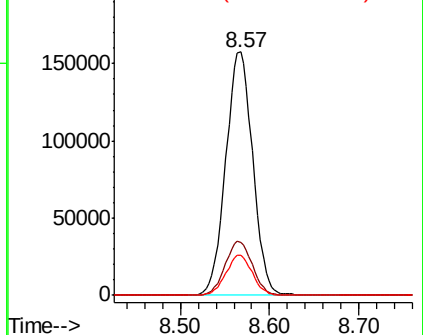
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060824.D
 Acq: 2 Apr 2020 15:40

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.8
88	16.3	0.0	33.0

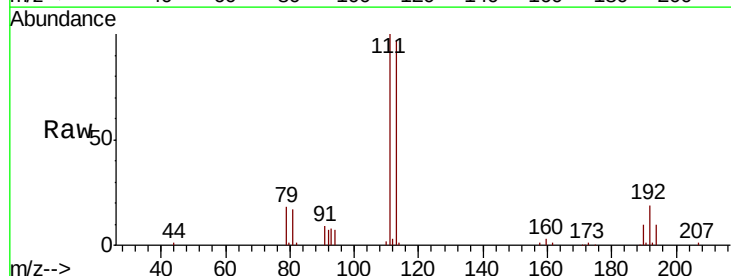


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

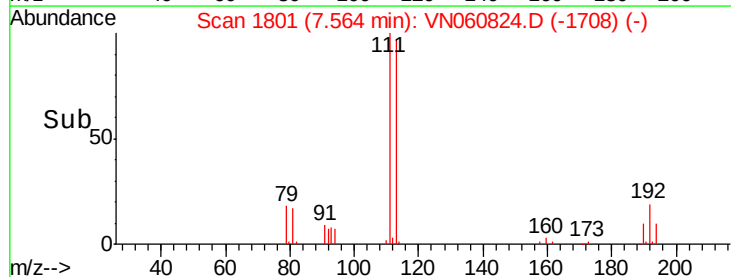
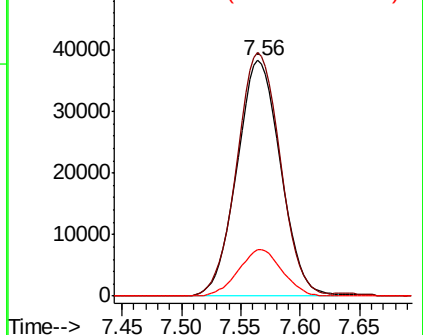


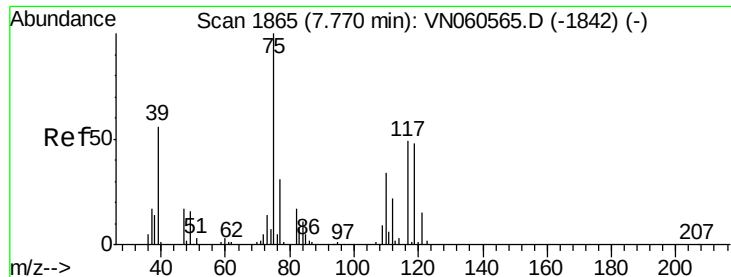
#35
 Dibromofluoromethane
 Concen: 48.738 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060824.D
 Acq: 2 Apr 2020 15:40

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.9	124.3
192	19.7	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

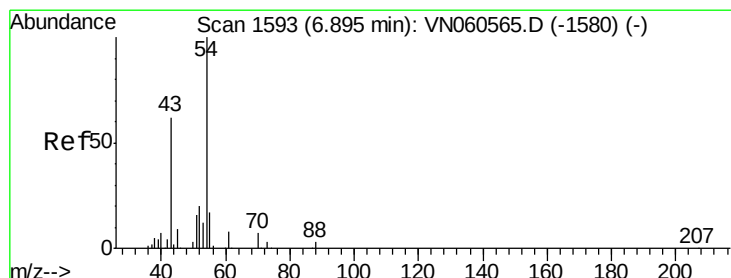
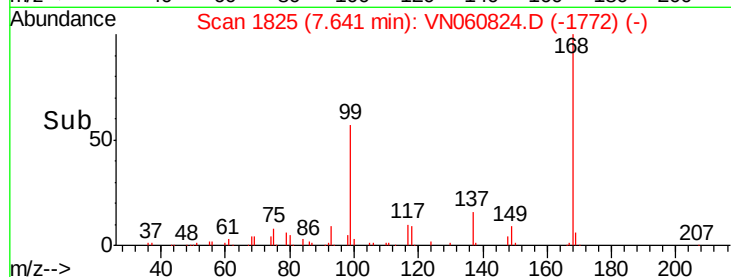
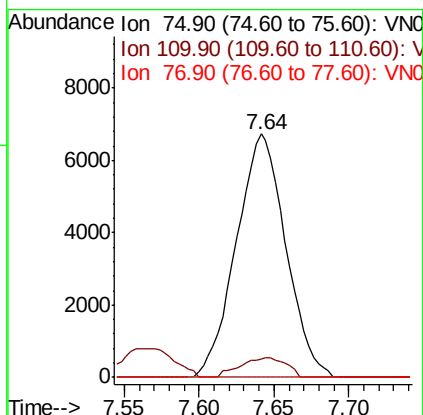
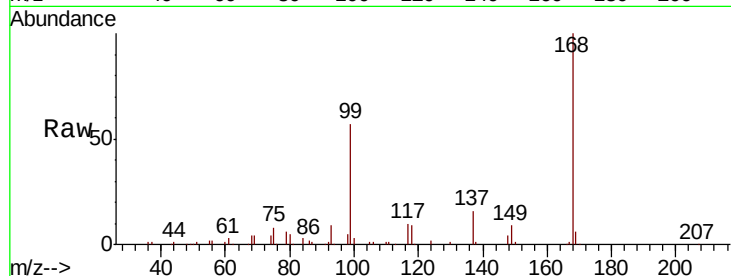




#36
 1,1-Dichloropropene
 Concen: 4.831 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060824.D
 Acq: 2 Apr 2020 15:40

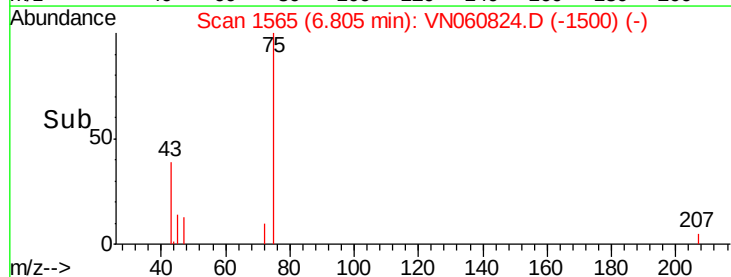
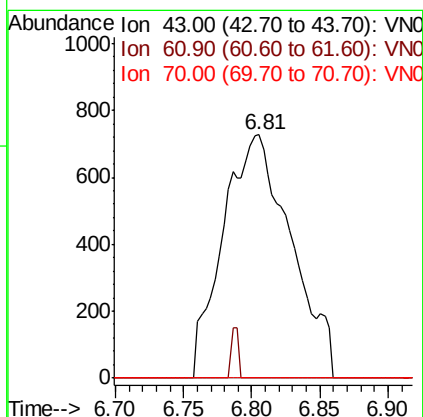
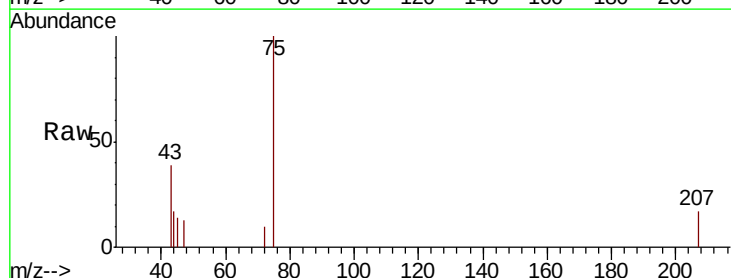
Instrument :
 MSVOA_N
 ClientSampled :

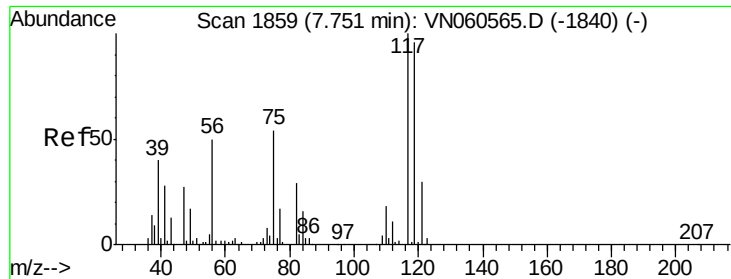
Tot Ion: 75 Resp: 15459
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.9 50.6#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 0.729 ug/l
 RT: 6.81 min Scan# 1565
 Delta R.T. -0.09 min
 Lab File: VN060824.D
 Acq: 2 Apr 2020 15:40

Tgt Ion: 43 Resp: 2521
 Ion Ratio Lower Upper
 43 100
 61 2.3 10.6 15.8#
 70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.627 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060824.D

Acq: 2 Apr 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

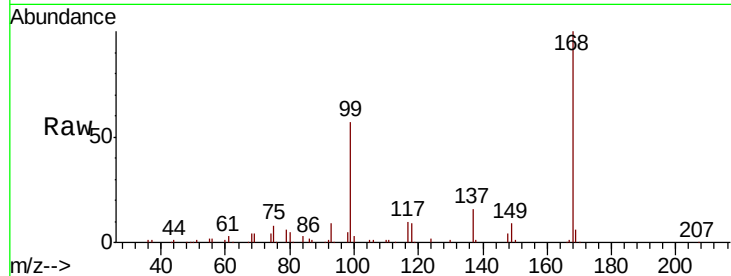
Tot Ion:117 Resp: 19008

Ion Ratio Lower Upper

117 100

119 5.1 76.2 114.2#

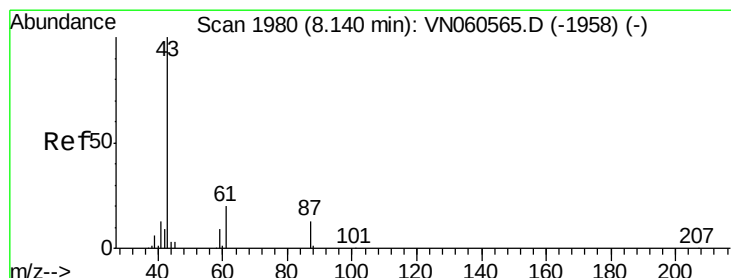
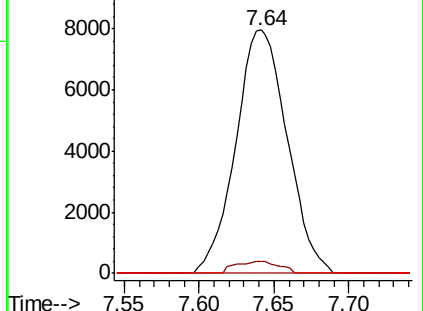
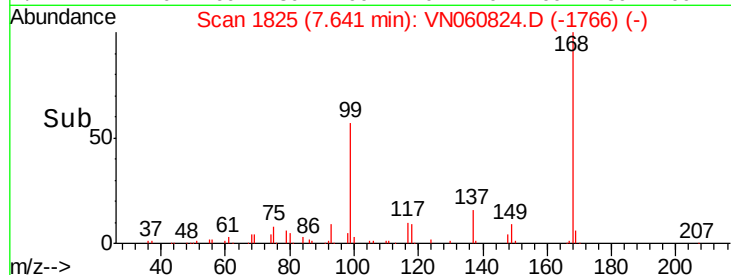
121 0.0 23.7 35.5#



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: 10.181 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060824.D

Acq: 2 Apr 2020 15:40

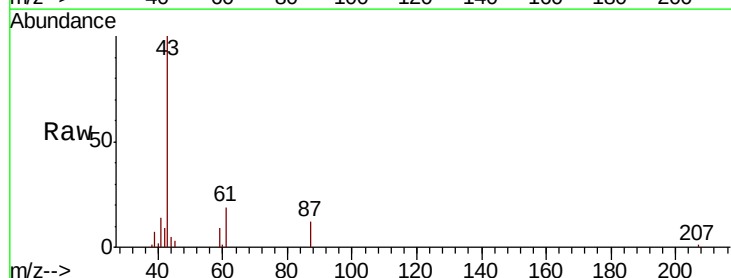
Tgt Ion: 43 Resp: 58056

Ion Ratio Lower Upper

43 100

61 18.9 20.7 31.1#

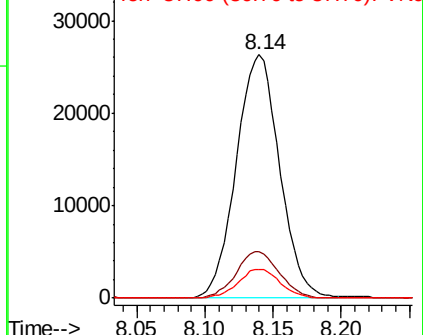
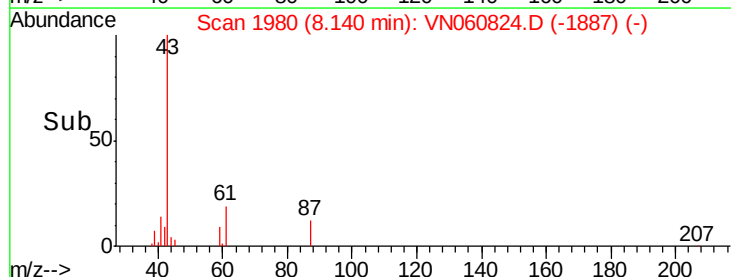
87 11.4 9.8 14.8

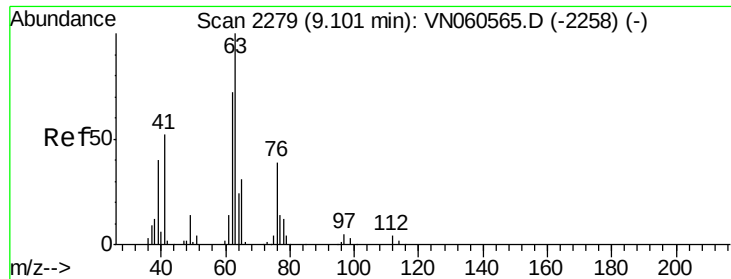


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

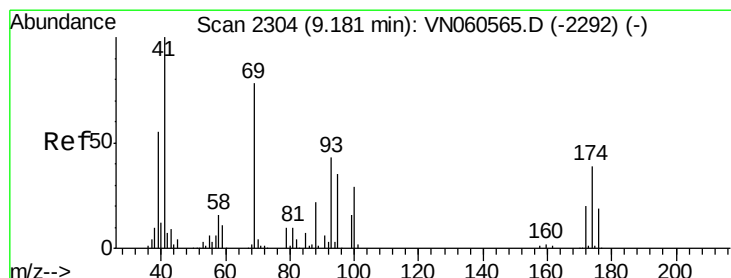
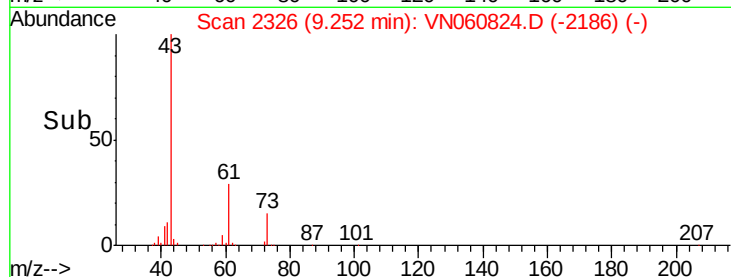
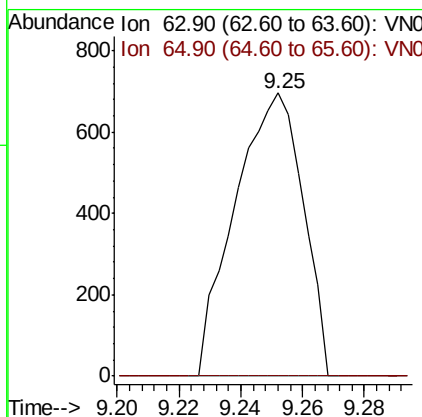
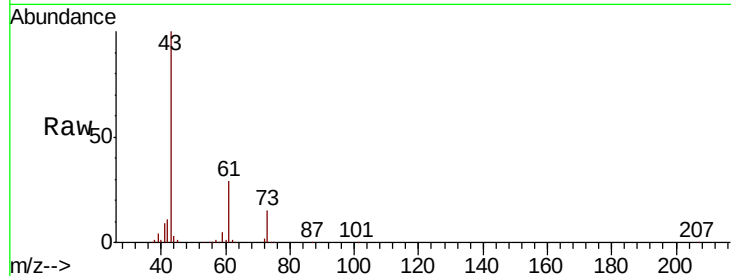




#45
 1,2-Dichloropropane
 Concen: 0.415 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.15 min
 Lab File: VN060824.D
 Acq: 2 Apr 2020 15:40

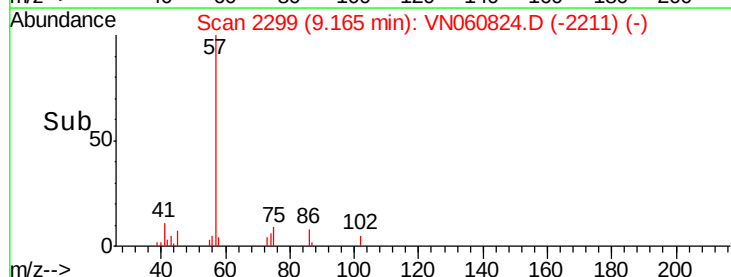
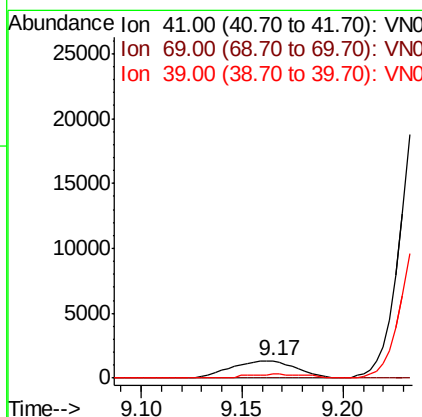
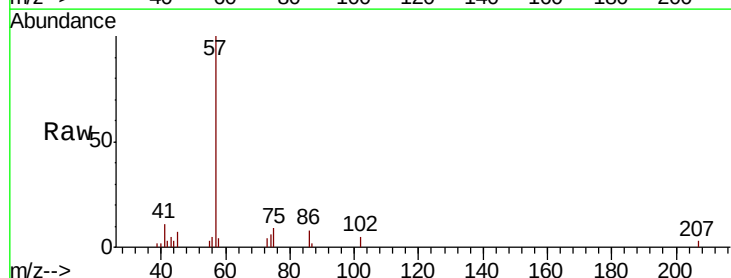
Instrument :
 MSVOA_N
 ClientSampleId :

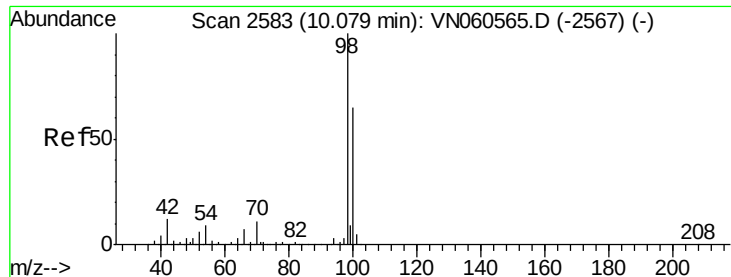
Tot Ion: 63 Resp: 1058
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.4 38.0#



#48
 Methyl methacrylate
 Concen: 1.187 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.02 min
 Lab File: VN060824.D
 Acq: 2 Apr 2020 15:40

Tgt Ion: 41 Resp: 3014
 Ion Ratio Lower Upper
 41 100
 69 0.0 65.4 98.0#
 39 0.0 44.0 66.0#





#50

Toluene-d8

Concen: 49.873 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060824.D

Acq: 2 Apr 2020 15:40

Instrument :

MSVOA_N

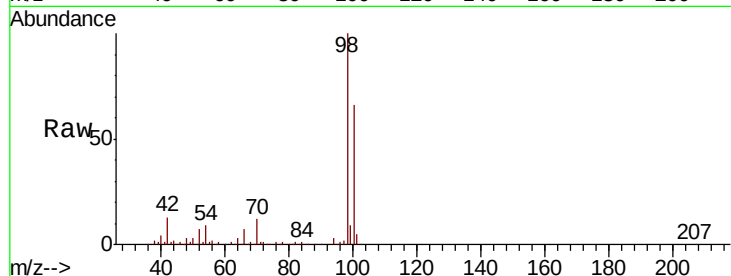
ClientSampled :

Tot Ion: 98 Resp: 407080

Ion Ratio Lower Upper

98 100

100 65.3 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

250000

200000

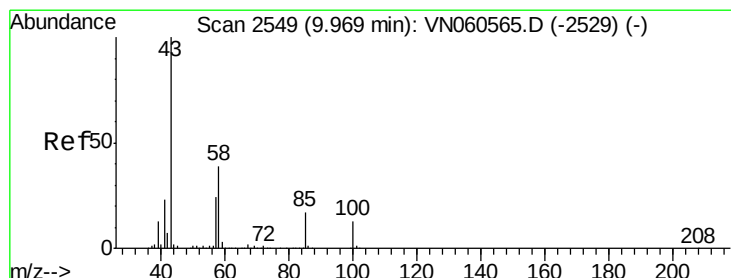
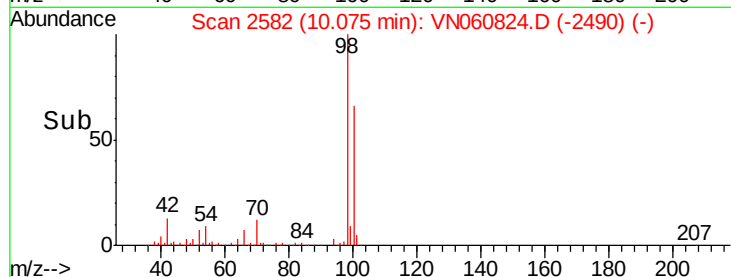
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.345 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060824.D

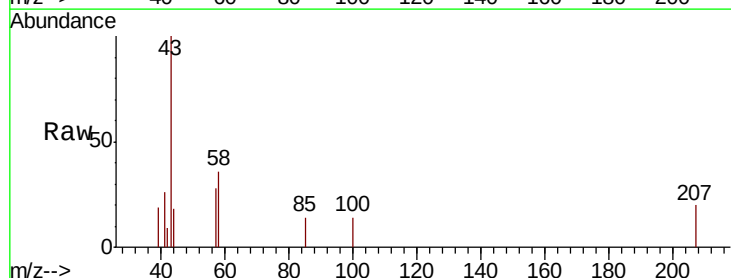
Acq: 2 Apr 2020 15:40

Tgt Ion: 43 Resp: 4364

Ion Ratio Lower Upper

43 100

58 32.4 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

8000

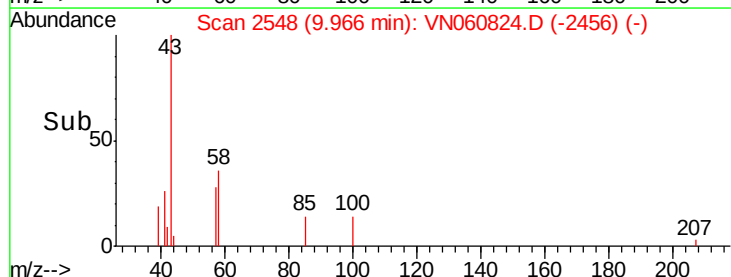
6000

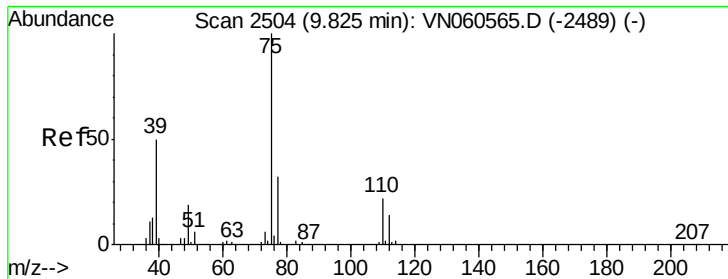
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.916 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060824.D

Acq: 2 Apr 2020 15:40

Instrument :

MSVOA_N

ClientSampleId :

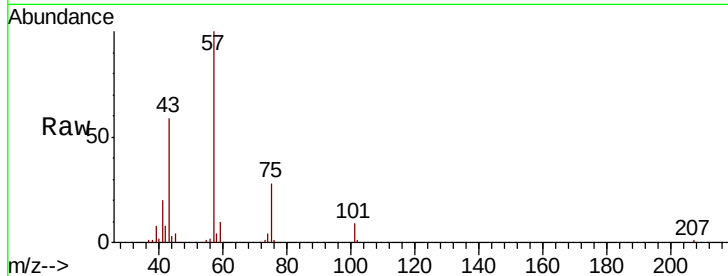
Tot Ion: 75 Resp: 23872

Ion Ratio Lower Upper

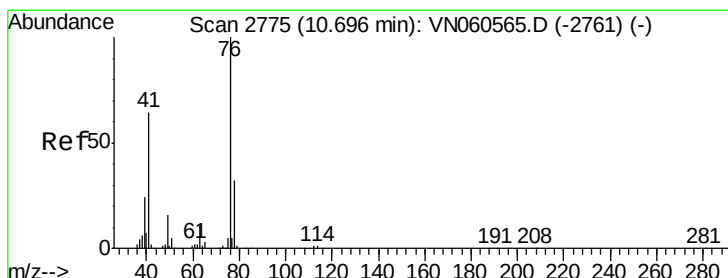
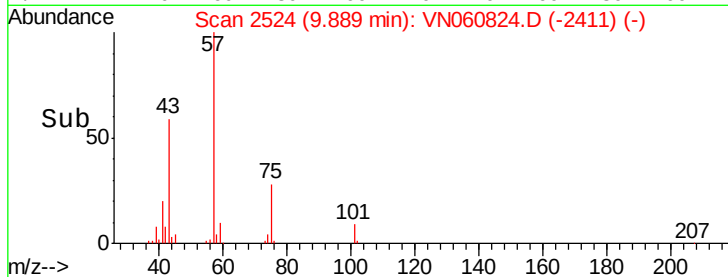
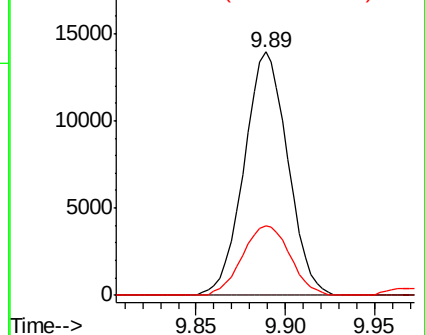
75 100

77 0.0 25.4 38.0#

39 28.4 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: 0.997 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060824.D

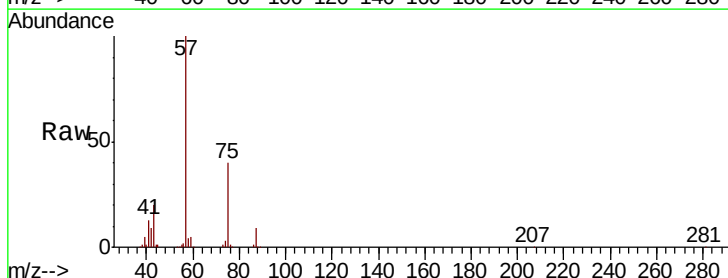
Acq: 2 Apr 2020 15:40

Tgt Ion: 76 Resp: 3882

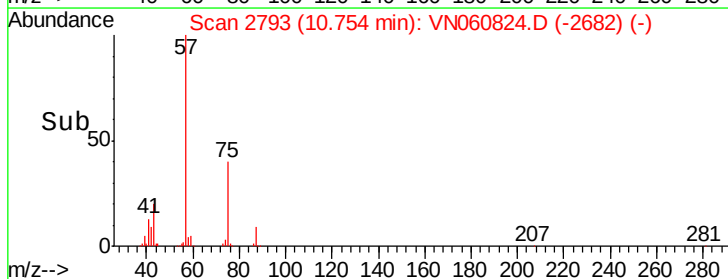
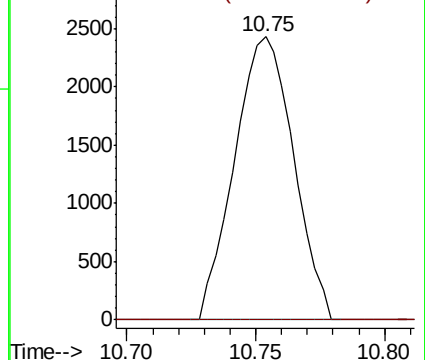
Ion Ratio Lower Upper

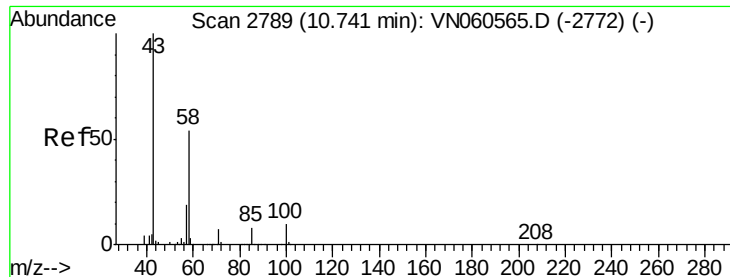
76 100

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: 26.115 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060824.D

Acq: 2 Apr 2020 15:40

Instrument :

MSVOA_N

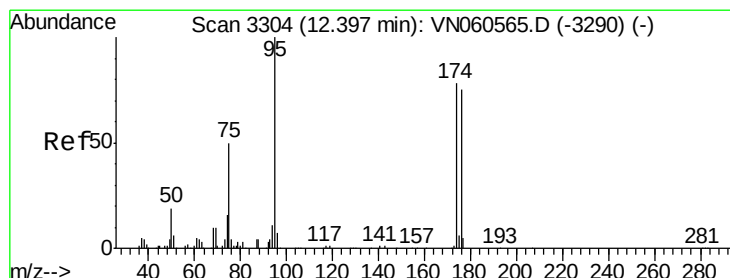
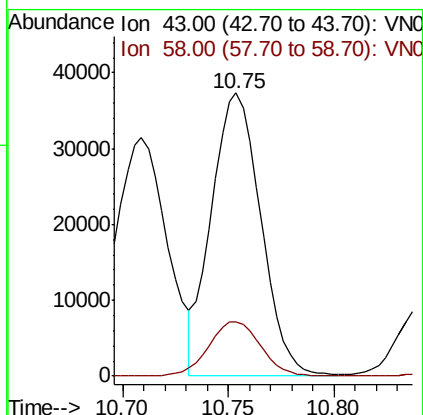
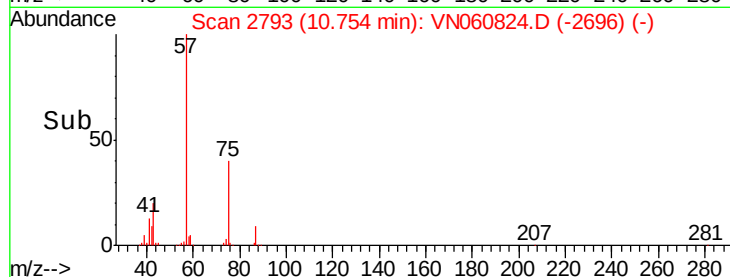
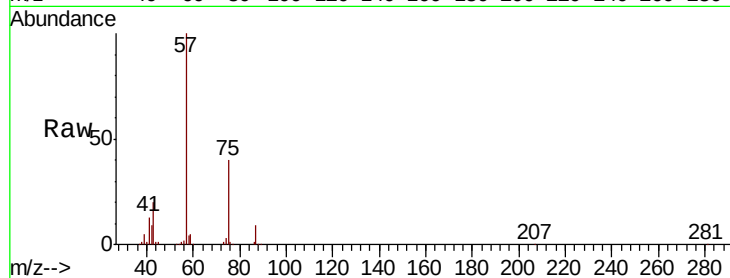
ClientSampleId :

Tot Ion: 43 Resp: 61044

Ion Ratio Lower Upper

43 100

58 19.9 26.7 80.1#



#62

4-Bromofluorobenzene

Concen: 50.717 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060824.D

Acq: 2 Apr 2020 15:40

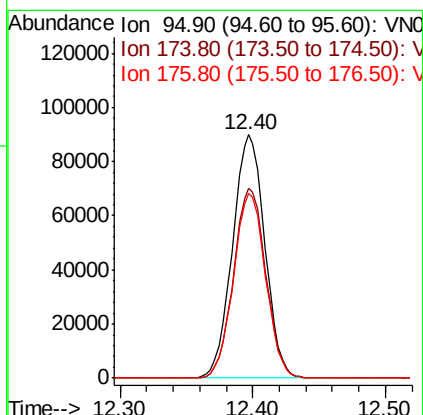
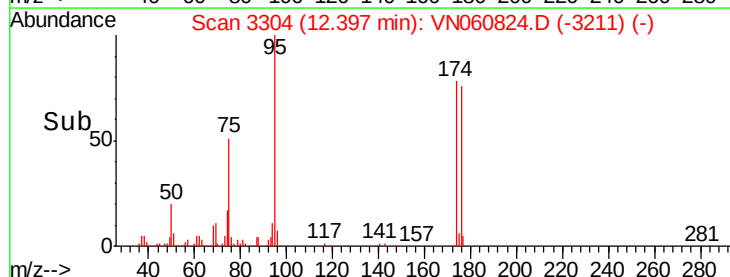
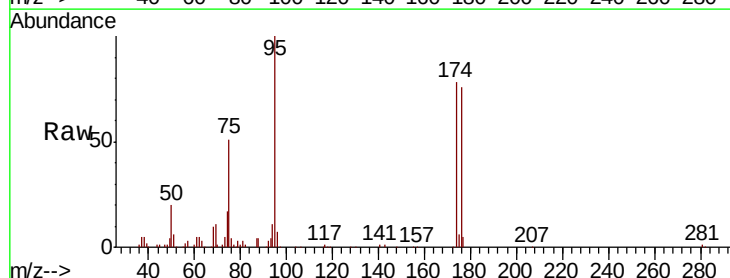
Tgt Ion: 95 Resp: 151712

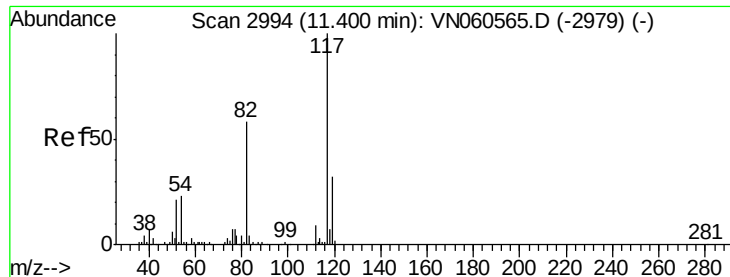
Ion Ratio Lower Upper

95 100

174 78.0 0.0 157.6

176 75.5 0.0 150.6

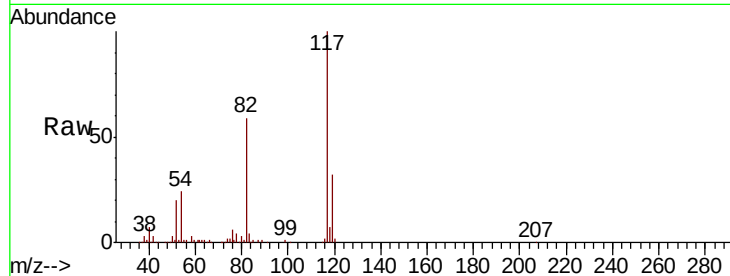




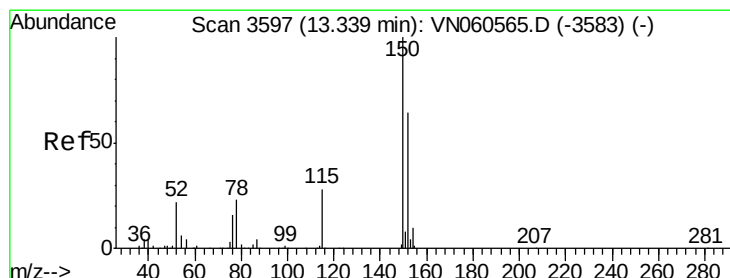
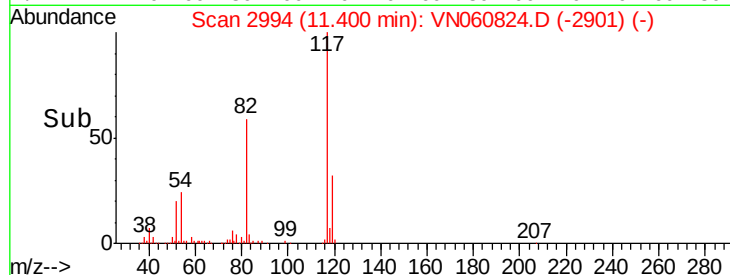
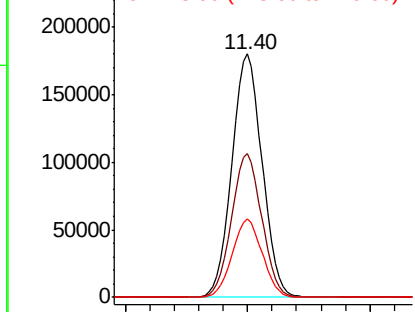
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060824.D
Acq: 2 Apr 2020 15:40

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 310560
Ion Ratio Lower Upper
117 100
82 58.8 46.7 70.1
119 32.1 25.5 38.3

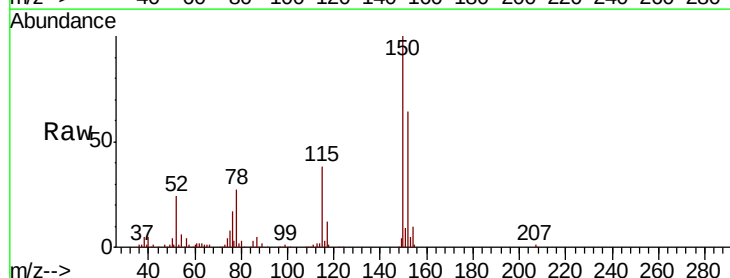


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

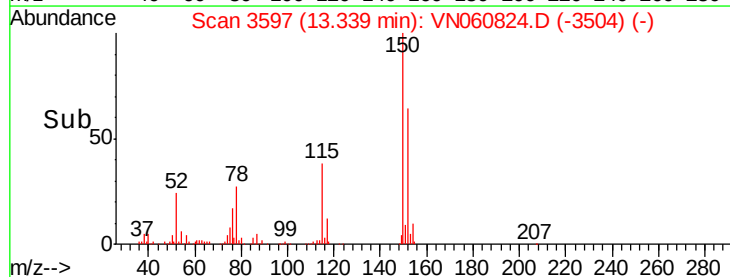
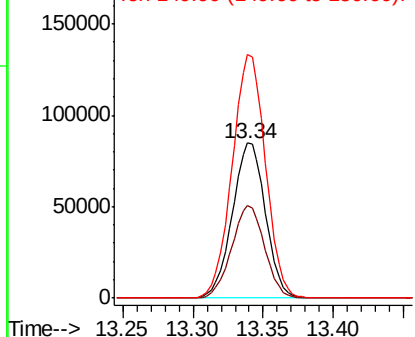


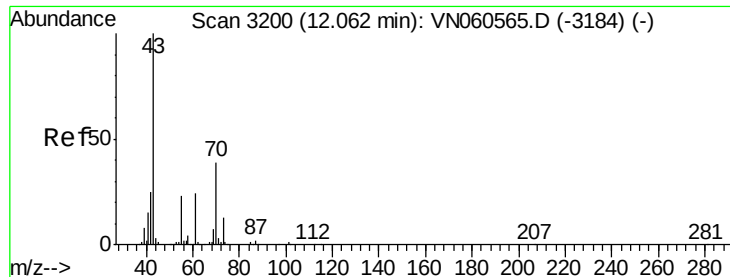
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060824.D
Acq: 2 Apr 2020 15:40

Tgt Ion:152 Resp: 139240
Ion Ratio Lower Upper
152 100
115 59.4 30.2 90.6
150 158.1 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

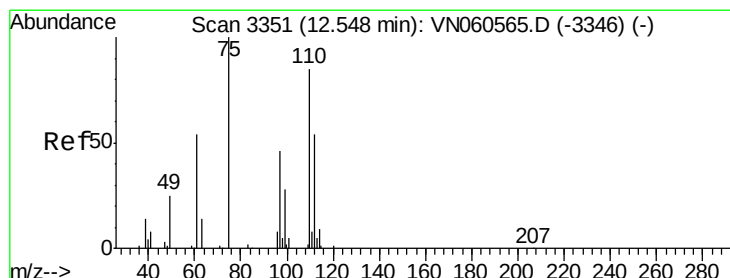
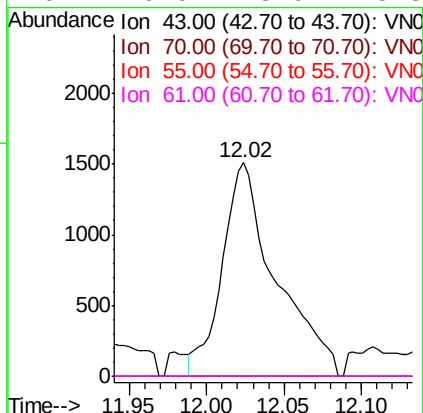
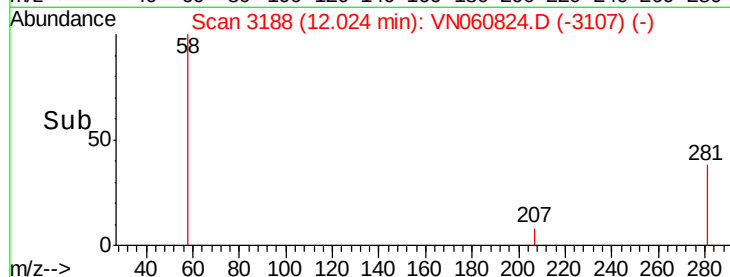
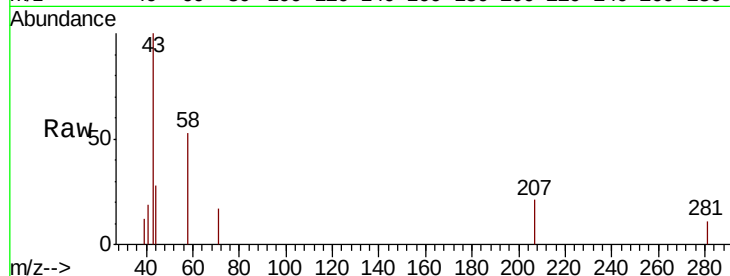




#74
N-amvl acetate
Concen: 0.751 ug/l
RT: 12.02 min Scan# 3188
Delta R.T. -0.04 min
Lab File: VN060824.D
Acq: 2 Apr 2020 15:40

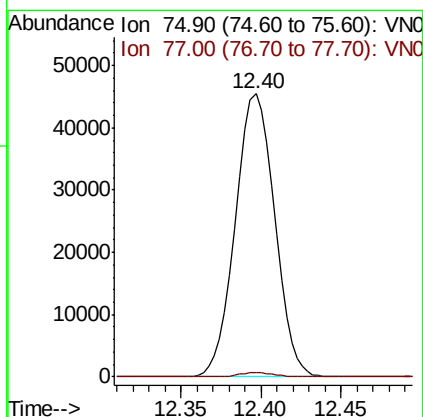
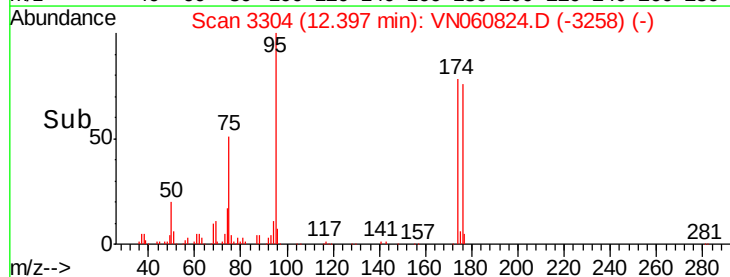
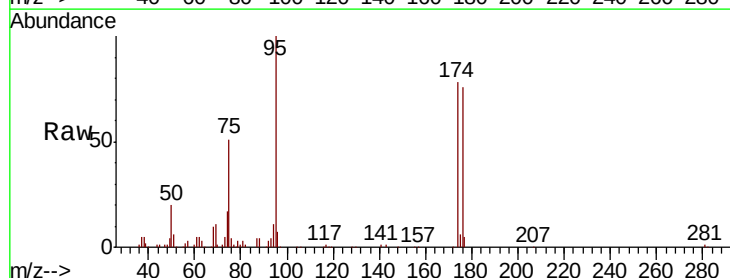
Instrument :
MSVOA_N
ClientSampleId :

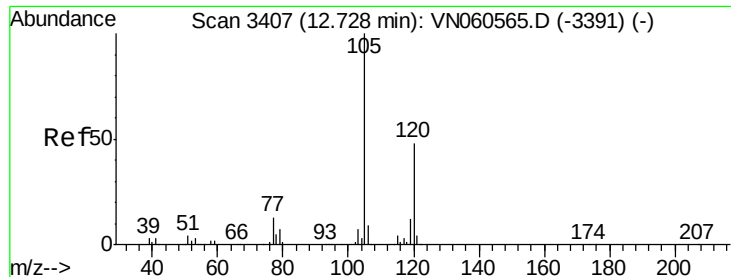
Tot Ion: 43 Resp: 3624
Ion Ratio Lower Upper
43 100
70 0.0 31.1 46.7#
55 0.0 18.6 27.8#
61 0.0 18.9 28.3#



#76
1,2,3-Trichloropropane
Concen: 25.402 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060824.D
Acq: 2 Apr 2020 15:40

Tgt Ion: 75 Resp: 76322
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#

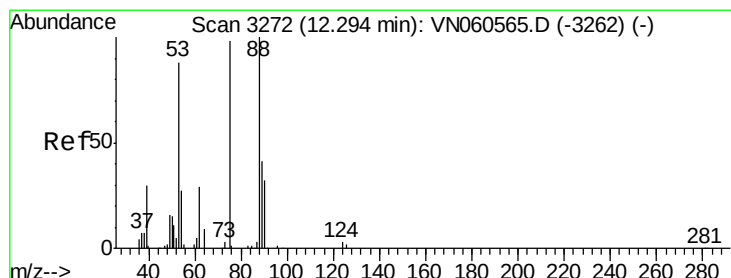
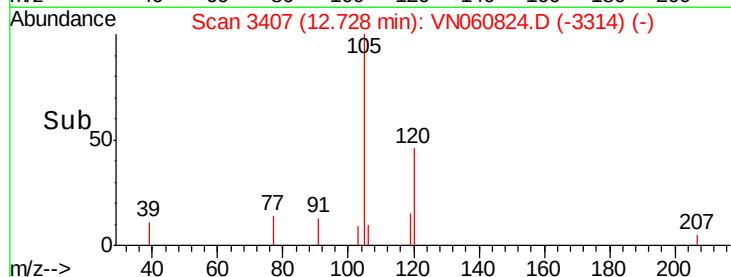
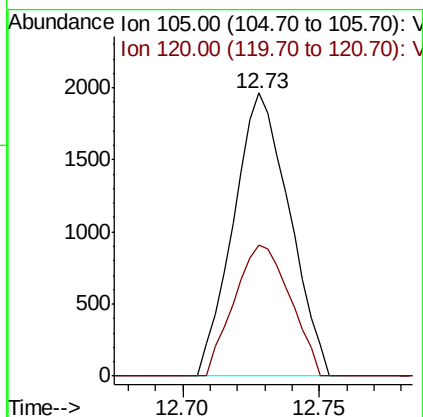
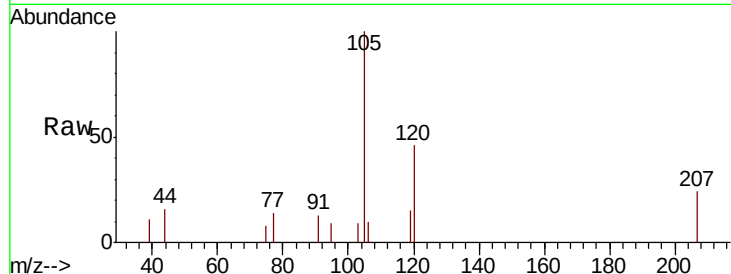




#80
 1,3,5-Trimethylbenzene
 Concen: 0.315 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. -0.00 min
 Lab File: VN060824.D
 Acq: 2 Apr 2020 15:40

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:105 Resp: 2796
 Ion Ratio Lower Upper
 105 100
 120 46.3 23.9 71.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.241 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060824.D
 Acq: 2 Apr 2020 15:40

Tgt Ion: 75 Resp: 76322
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

