

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040620\
 Data File : VN060847.D
 Acq On : 6 Apr 2020 13:42
 Operator : JC/MD
 Sample : L2129-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-8

Quant Time: Apr 07 07:03:49 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	192911	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	321457	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	302366	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	137026	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	124225	46.91	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.82%	
35) Dibromofluoromethane	7.57	113	94677	48.71	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.42%	
50) Toluene-d8	10.08	98	398949	50.25	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.50%	
62) 4-Bromofluorobenzene	12.40	95	148876	51.17	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.34%	

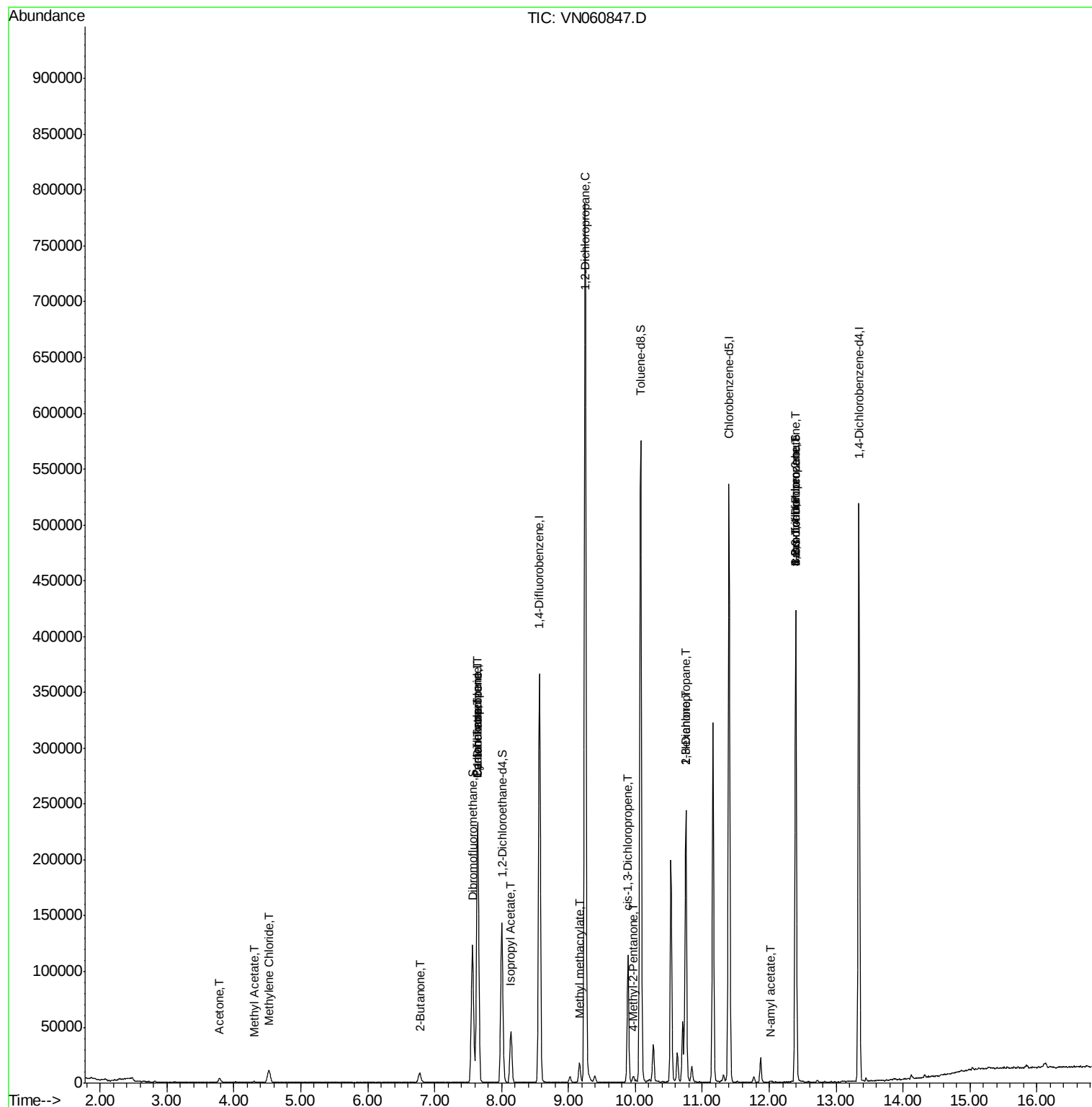
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6739	7.184	ug/l	89
18) Methyl Acetate	4.30	43	1727	0.654	ug/l #	54
20) Methylene Chloride	4.52	84	8563	3.711	ug/l	99
25) 2-Butanone	6.80	43	957	0.630	ug/l #	50
31) Cyclohexane	7.64	56	3918	0.919	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14935	4.798	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18228	6.534	ug/l #	16
43) Isopropyl Acetate	8.14	43	55094	9.933	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	785	0.317	ug/l #	43
48) Methyl methacrylate	9.16	41	2770	1.122	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	3311	1.049	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	20383	5.193	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	2522	0.666	ug/l #	42
59) 2-Hexanone	10.75	43	36810	16.189	ug/l #	52
71) Bromoform	12.40	173	233	1.805	ug/l #	1
74) N-amyl acetate	12.02	43	1194	0.251	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	75328	25.477	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	75328	65.432	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: VN060847.D

Acq: 6 Apr 2020 13:42

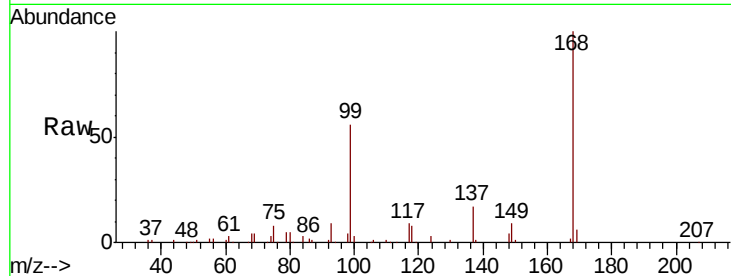
Instrument :
MSVOA_N
ClientSampled :
TP-8

Tot Ion:168 Resp: 192911

Ion Ratio Lower Upper

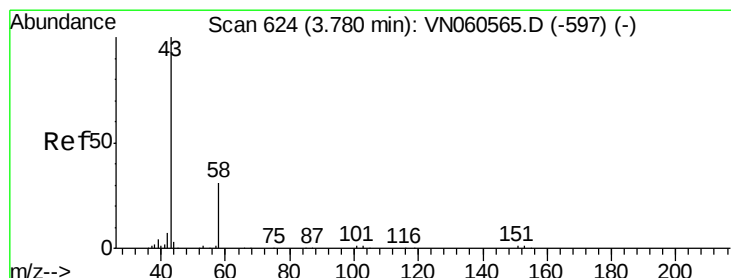
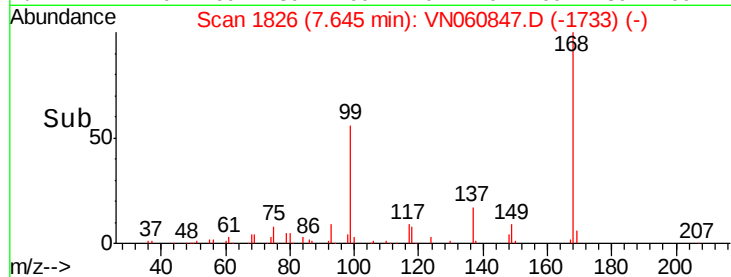
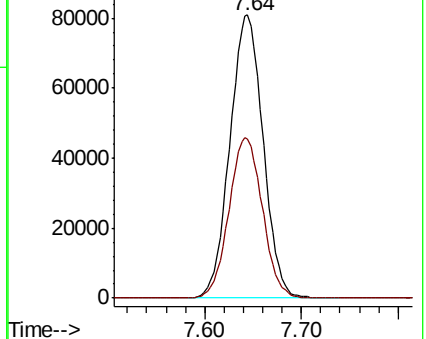
168 100

99 56.3 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: 7.184 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060847.D

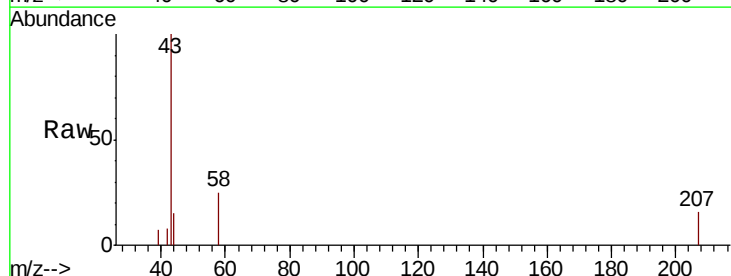
Acq: 6 Apr 2020 13:42

Tgt Ion: 43 Resp: 6739

Ion Ratio Lower Upper

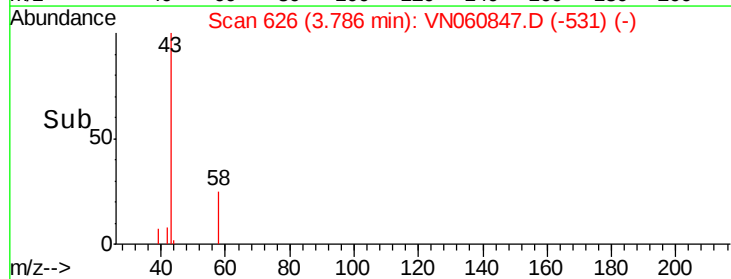
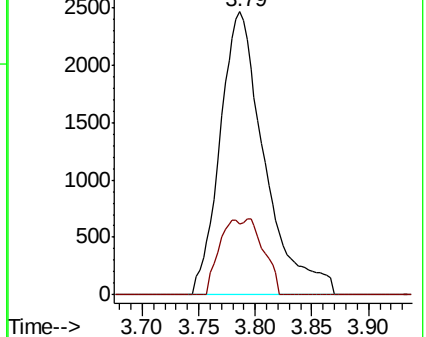
43 100

58 25.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

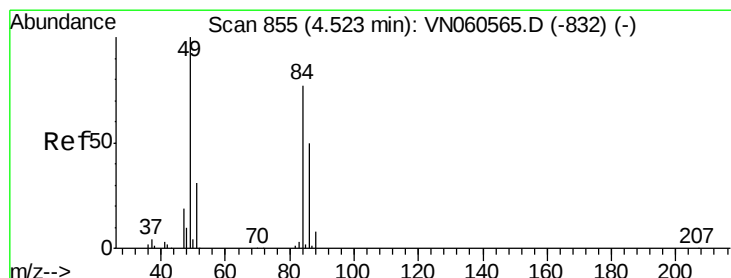
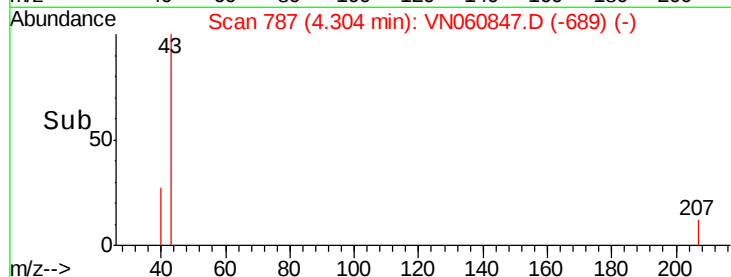
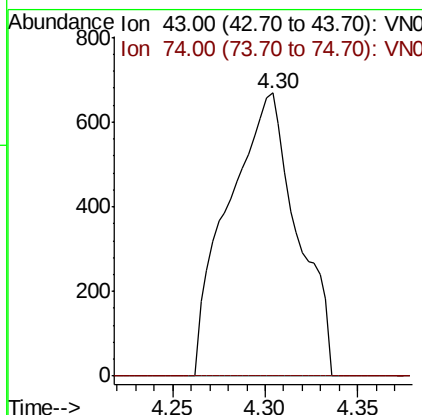
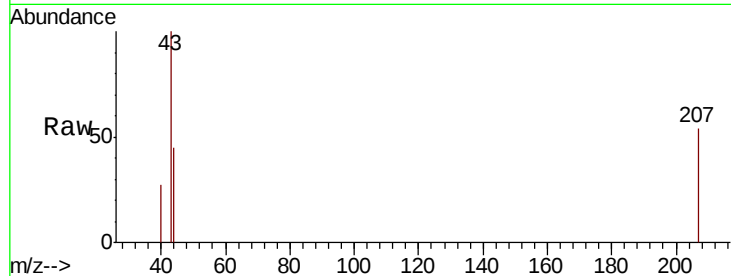




#18
Methyl Acetate
Concen: 0.654 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060847.D
Acq: 6 Apr 2020 13:42

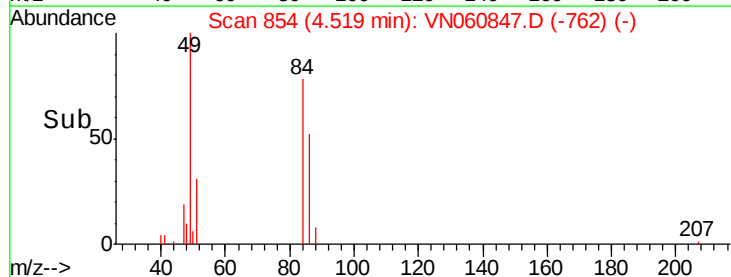
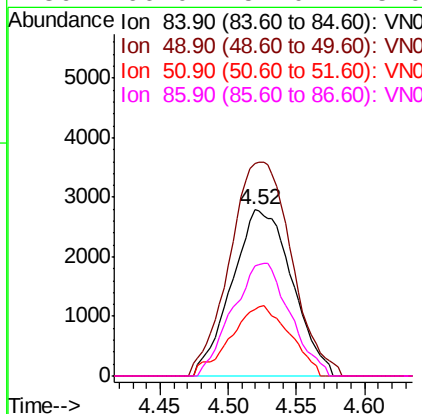
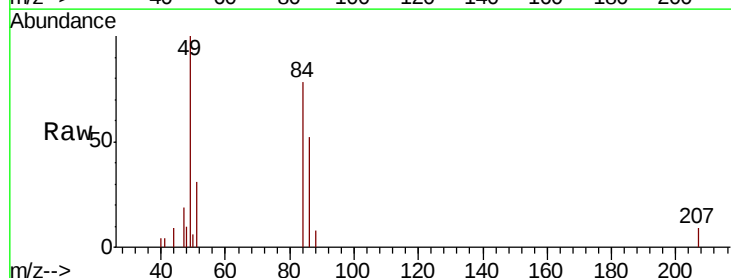
Instrument :
MSVOA_N
ClientSampleId :
TP-8

Tot Ion: 43 Resp: 1727
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 3.711 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060847.D
Acq: 6 Apr 2020 13:42

Tgt Ion: 84 Resp: 8563
Ion Ratio Lower Upper
84 100
49 128.1 103.3 154.9
51 40.2 31.6 47.4
86 66.0 52.0 78.0

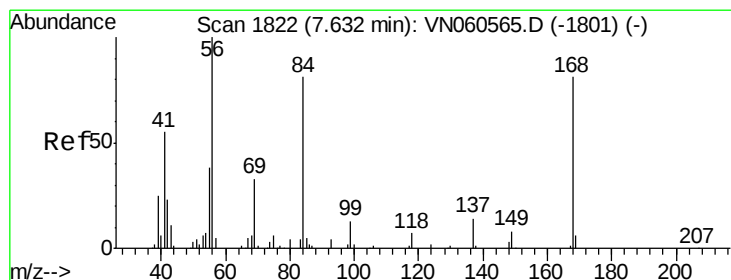
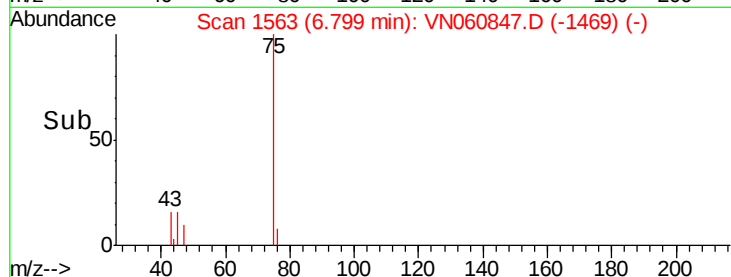
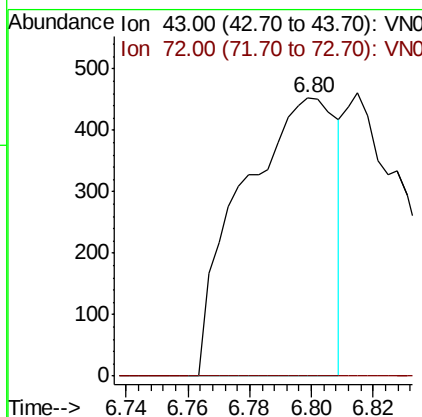
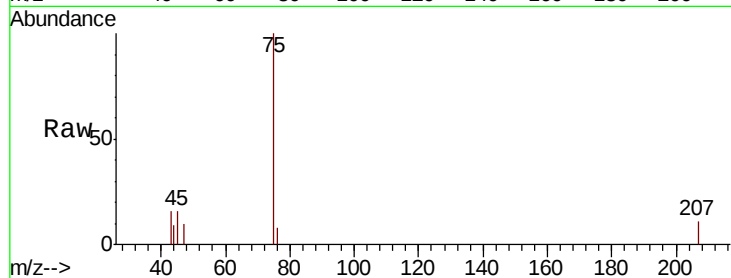




#25
2-Butanone
Concen: 0.630 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN060847.D
Acq: 6 Apr 2020 13:42

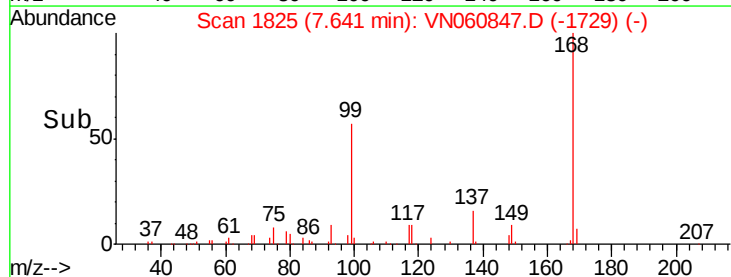
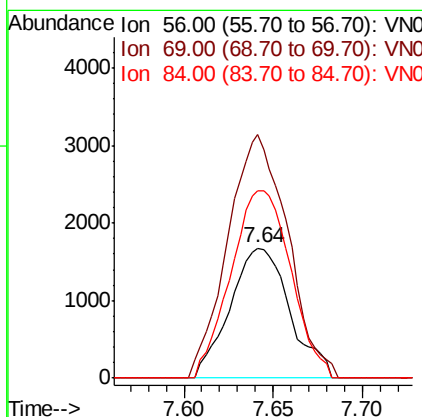
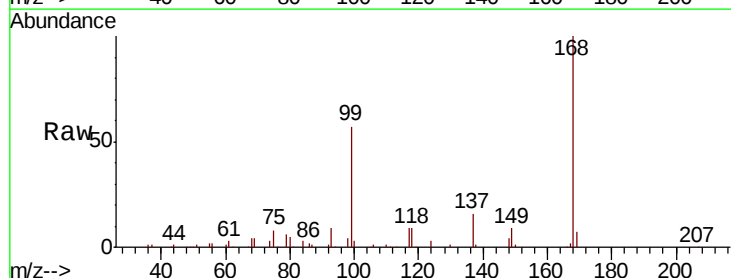
Instrument :
MSVOA_N
ClientSampled :
TP-8

Tot Ion: 43 Resp: 957
Ion Ratio Lower Upper
43 100
72 0.0 20.4 30.6#



#31
Cyclohexane
Concen: 0.919 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060847.D
Acq: 6 Apr 2020 13:42

Tgt Ion: 56 Resp: 3918
Ion Ratio Lower Upper
56 100
69 187.7 26.6 40.0#
84 144.0 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 46.909 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060847.D

Acq: 6 Apr 2020 13:42

Instrument :

MSVOA_N

ClientSampleId :

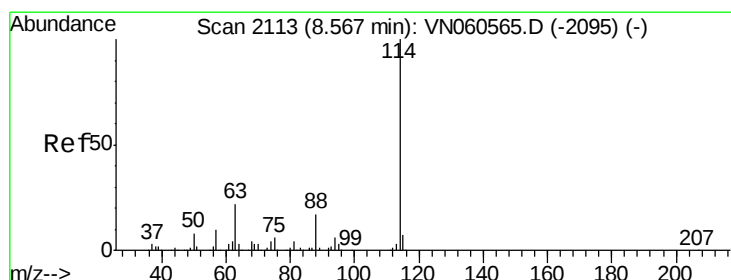
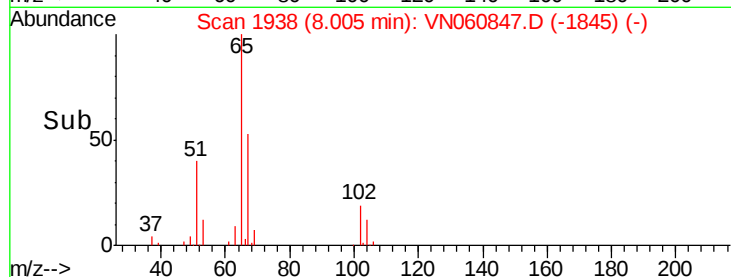
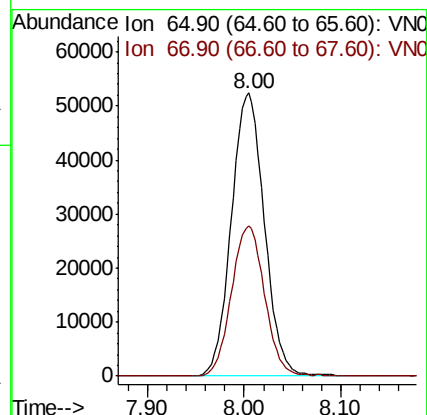
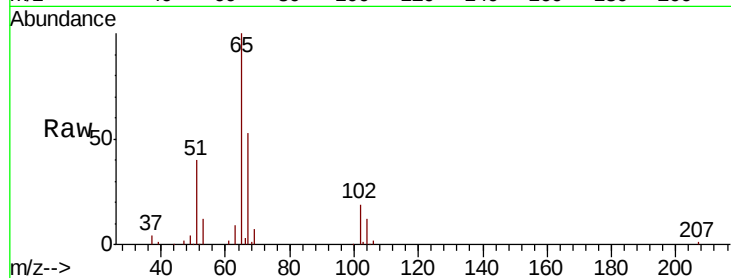
TP-8

Tot Ion: 65 Resp: 124225

Ion Ratio Lower Upper

65 100

67 53.2 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: VN060847.D

Acq: 6 Apr 2020 13:42

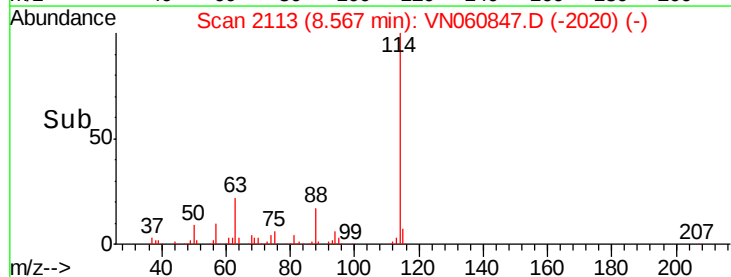
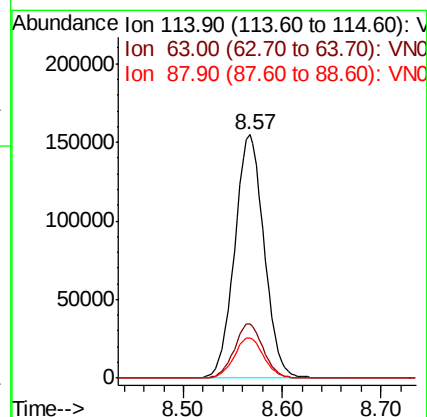
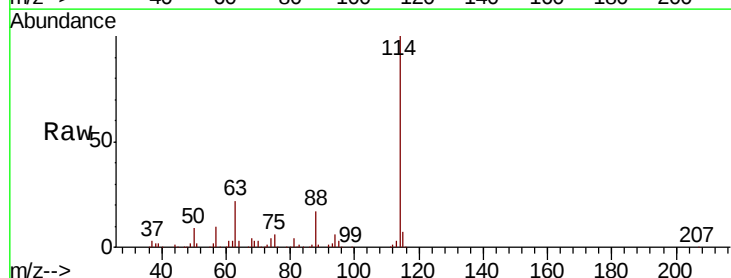
Tgt Ion: 114 Resp: 321457

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

88 16.6 0.0 33.0





#35

Dibromofluoromethane

Concen: 48.708 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060847.D

Acq: 6 Apr 2020 13:42

Instrument :
MSVOA_N
ClientSampled :
TP-8

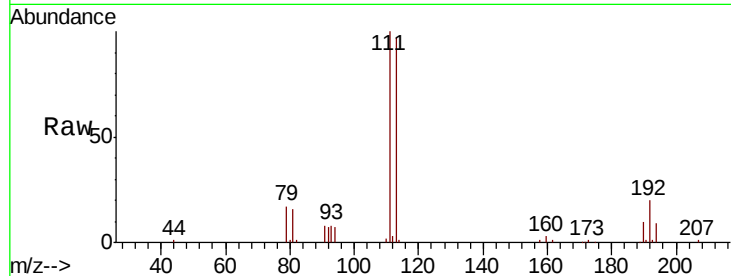
Tot Ion:113 Resp: 94677

Ion Ratio Lower Upper

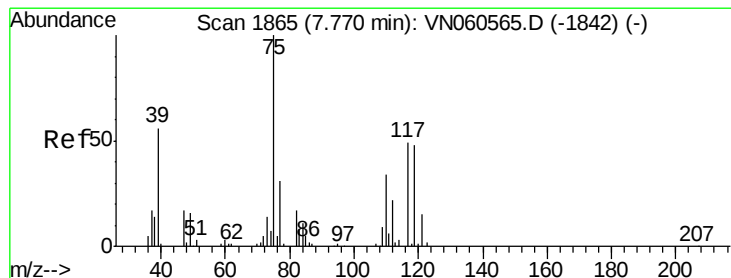
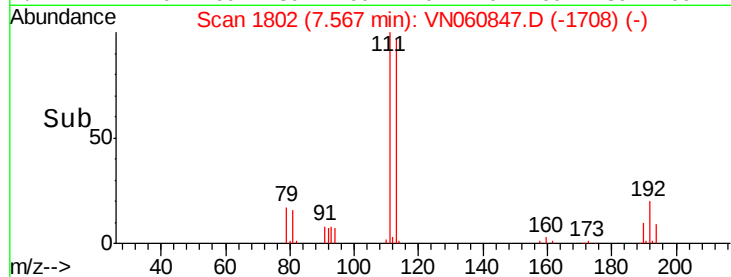
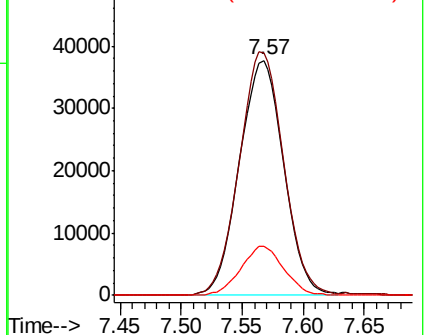
113 100

111 103.7 82.9 124.3

192 20.2 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: 4.798 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060847.D

Acq: 6 Apr 2020 13:42

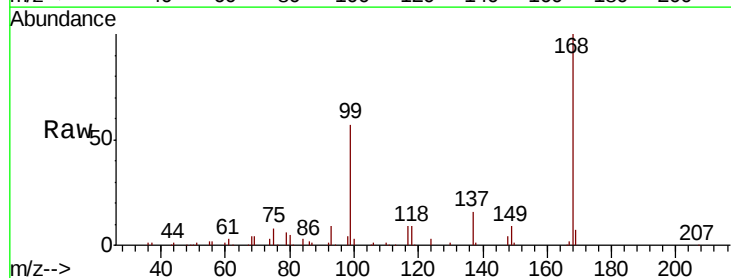
Tgt Ion: 75 Resp: 14935

Ion Ratio Lower Upper

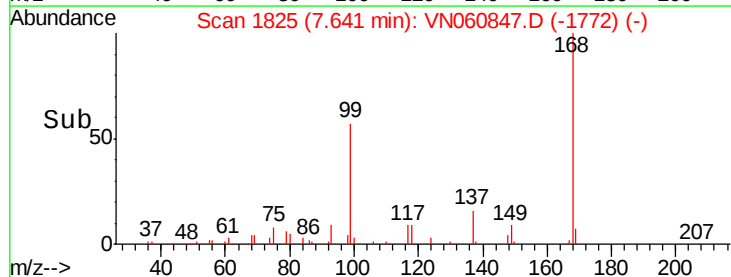
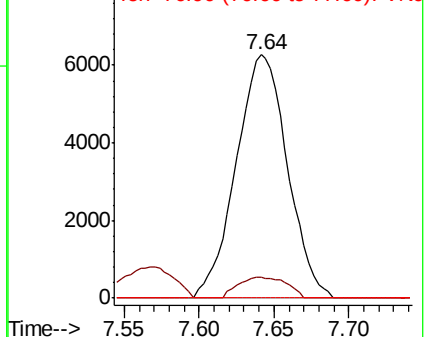
75 100

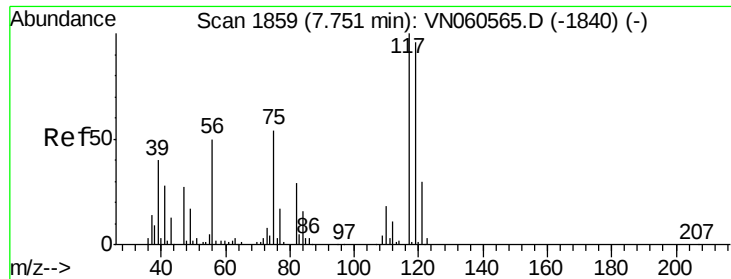
110 8.0 16.9 50.6#

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

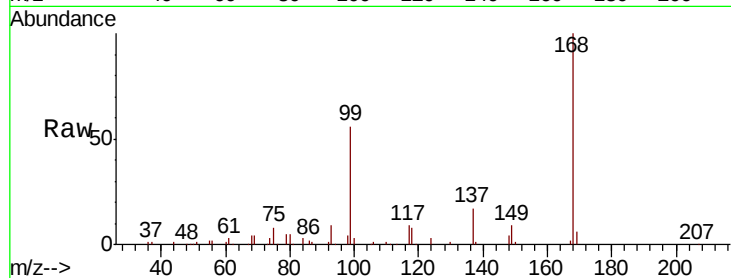




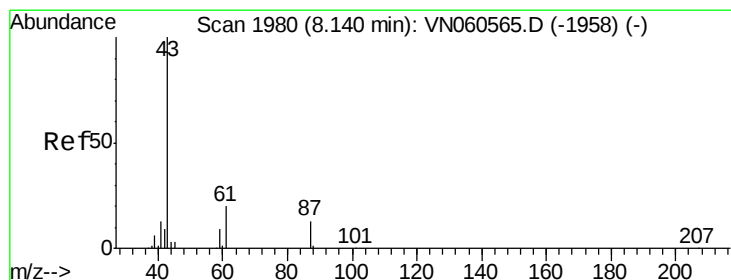
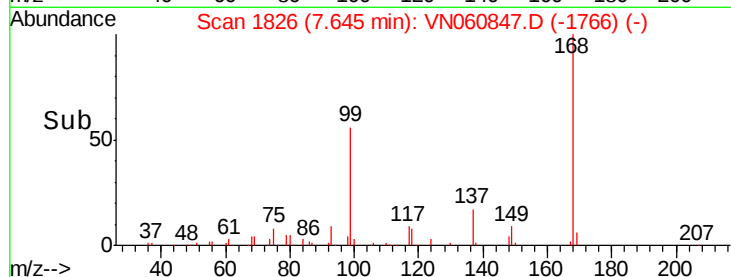
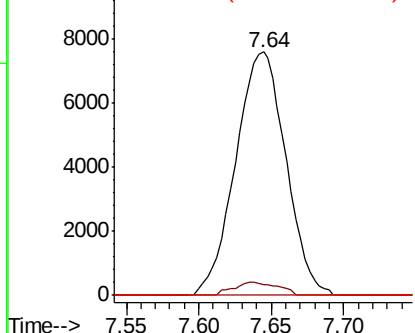
#38
Carbon Tetrachloride
Concen: 6.534 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060847.D
Acq: 6 Apr 2020 13:42

Instrument :
MSVOA_N
ClientSampleId :
TP-8

Tot Ion:117 Resp: 18228
Ion Ratio Lower Upper
117 100
119 4.5 76.2 114.2#
121 0.0 23.7 35.5#

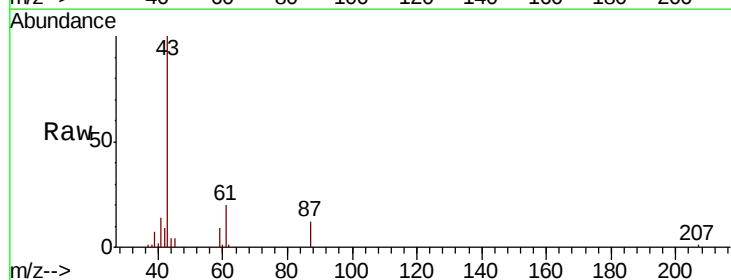


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

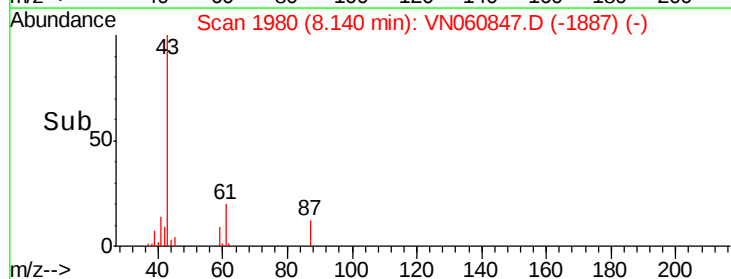
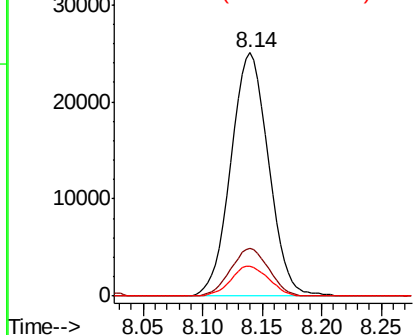


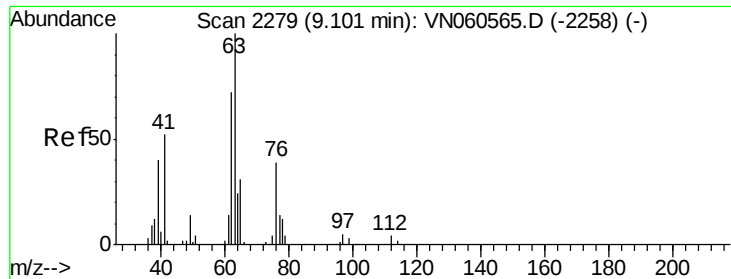
#43
Isopropyl Acetate
Concen: 9.933 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VN060847.D
Acq: 6 Apr 2020 13:42

Tgt Ion: 43 Resp: 55094
Ion Ratio Lower Upper
43 100
61 19.7 20.7 31.1#
87 12.3 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: 0.317 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060847.D

Acq: 6 Apr 2020 13:42

Instrument :

MSVOA_N

ClientSampled :

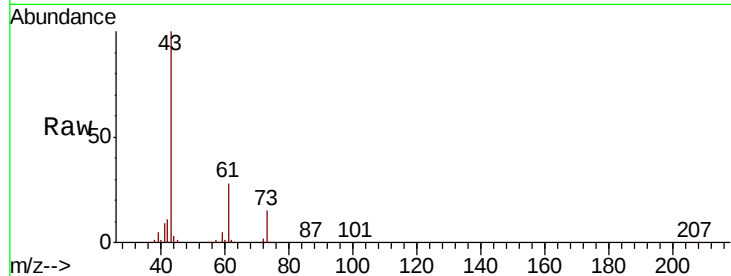
TP-8

Tot Ion: 63 Resp: 785

Ion Ratio Lower Upper

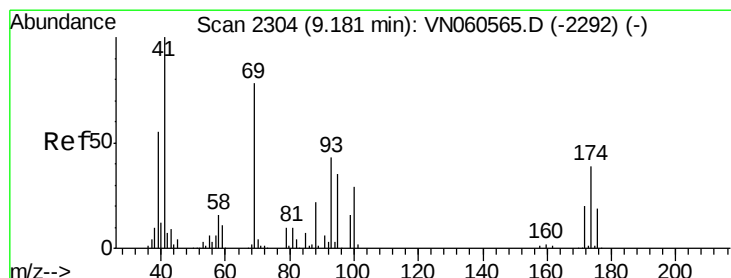
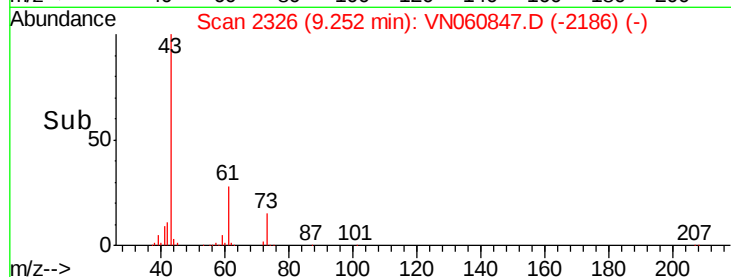
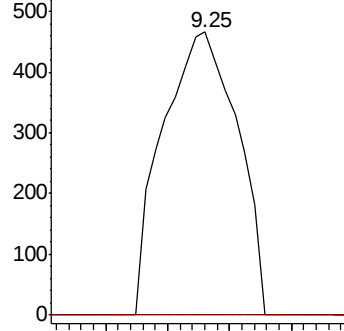
63 100

65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.122 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060847.D

Acq: 6 Apr 2020 13:42

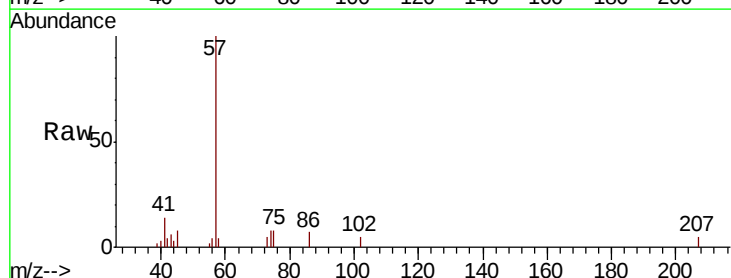
Tgt Ion: 41 Resp: 2770

Ion Ratio Lower Upper

41 100

69 0.0 65.4 98.0#

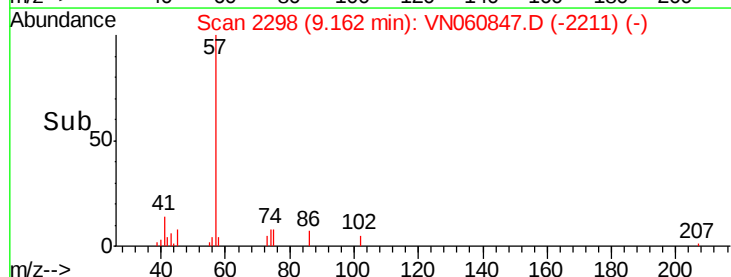
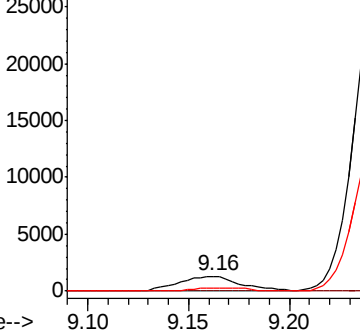
39 0.0 44.0 66.0#

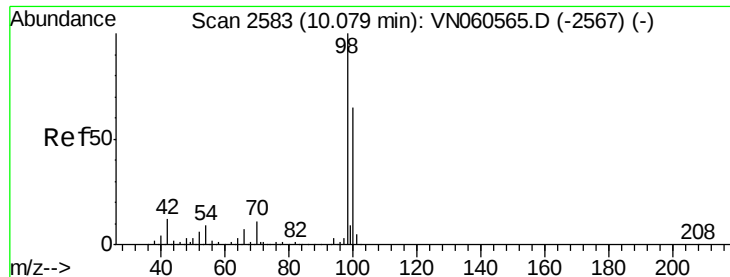


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 50.249 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060847.D

Acq: 6 Apr 2020 13:42

Instrument :

MSVOA_N

ClientSampled :

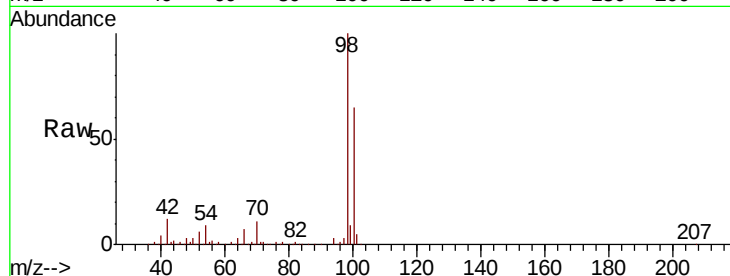
TP-8

Tot Ion: 98 Resp: 398949

Ion Ratio Lower Upper

98 100

100 65.2 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN060847.D (-2490) (-)

Ion 100.00 (99.70 to 100.70): VN060847.D (-2490) (-)

10.08

250000

200000

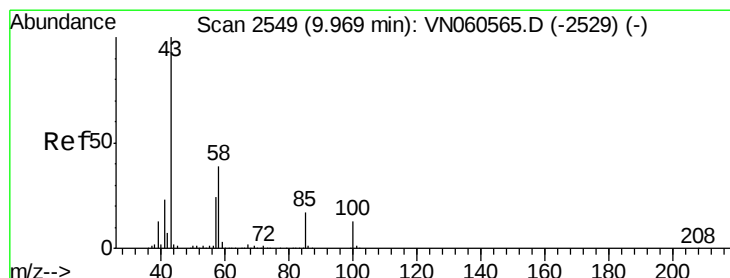
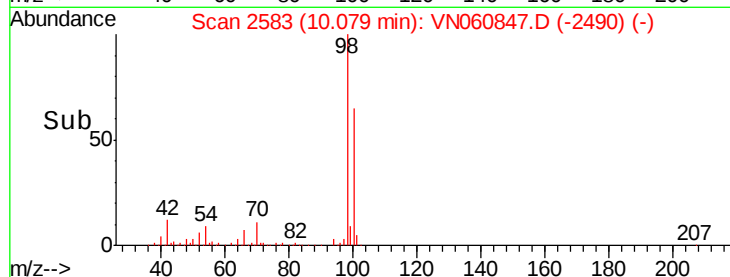
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.049 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060847.D

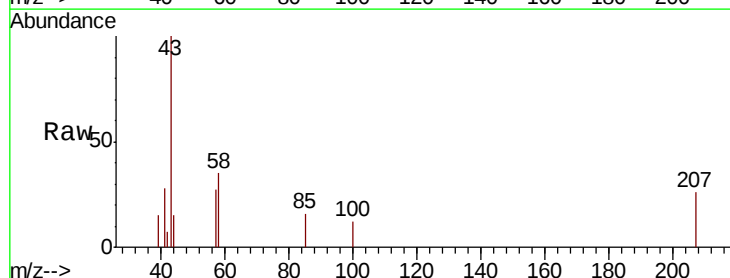
Acq: 6 Apr 2020 13:42

Tgt Ion: 43 Resp: 3311

Ion Ratio Lower Upper

43 100

58 42.1 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN060847.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060847.D (-2456) (-)

10000

8000

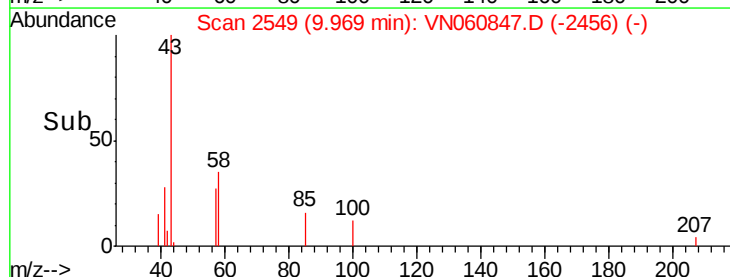
6000

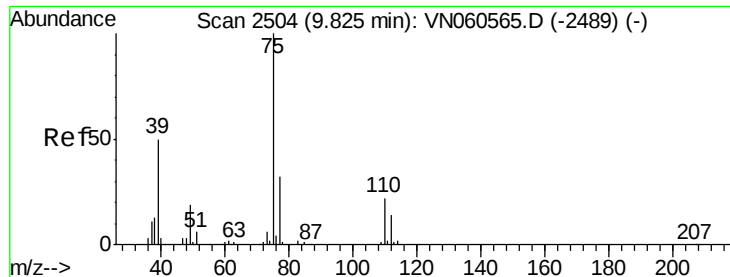
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.193 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060847.D

Acq: 6 Apr 2020 13:42

Instrument :

MSVOA_N

ClientSampled :

TP-8

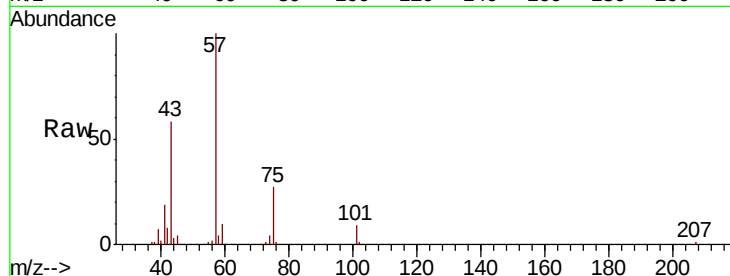
Tot Ion: 75 Resp: 20383

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

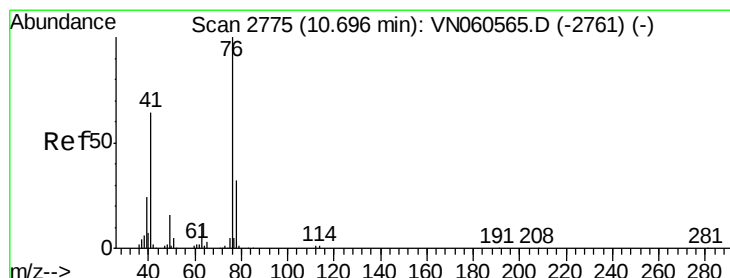
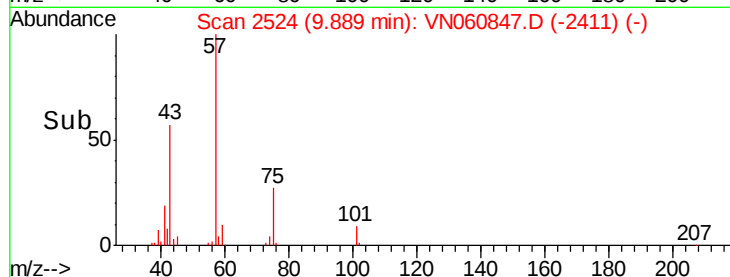
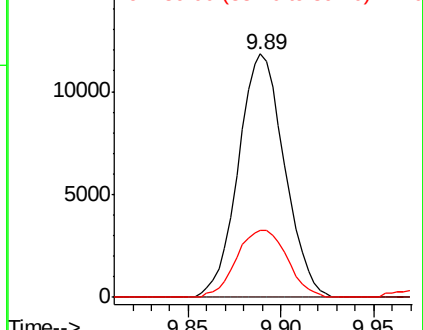
39 27.6 40.2 60.4#



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: 0.666 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060847.D

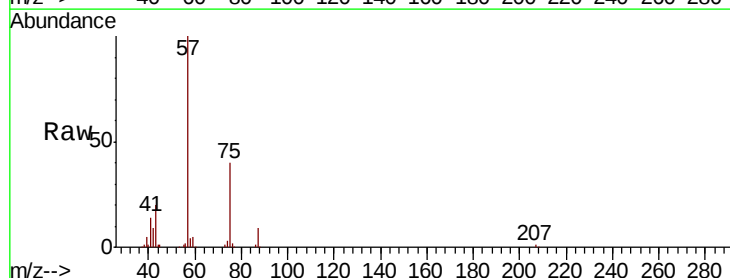
Acq: 6 Apr 2020 13:42

Tgt Ion: 76 Resp: 2522

Ion Ratio Lower Upper

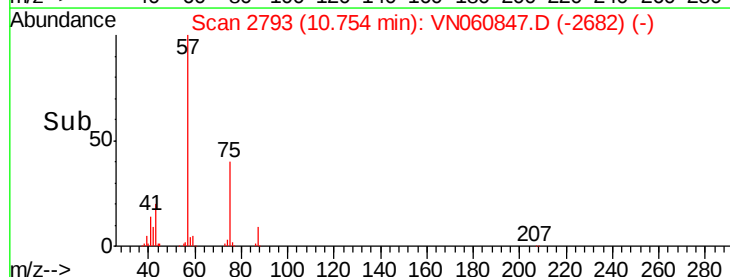
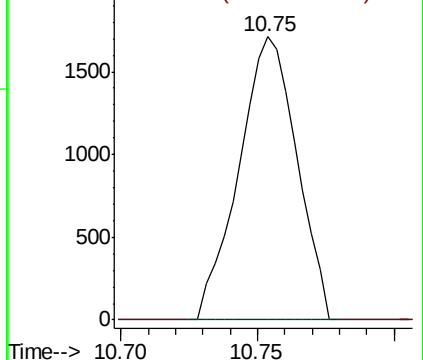
76 100

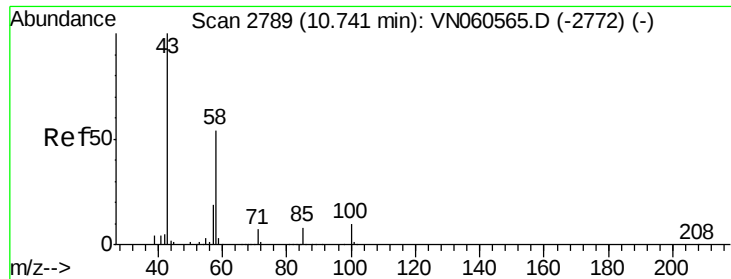
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

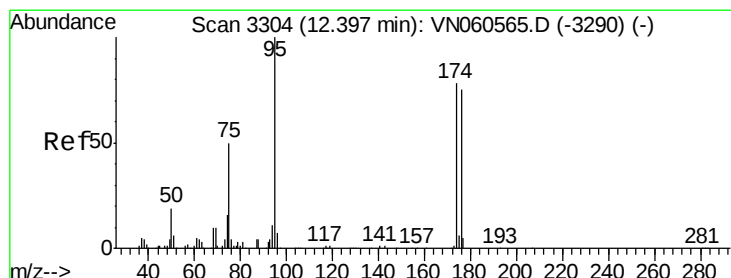
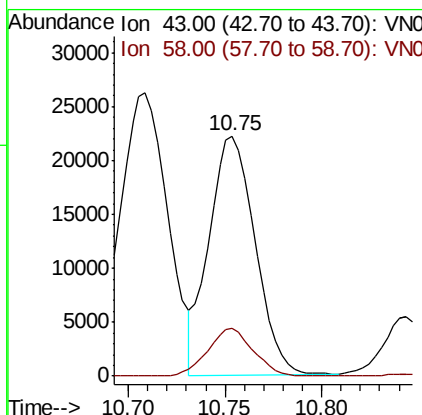
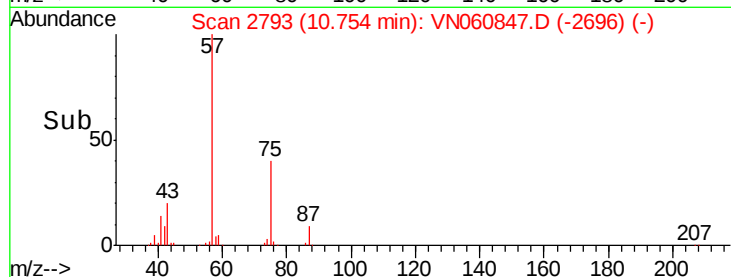
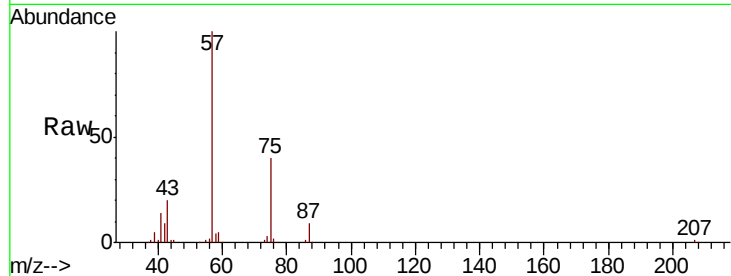




#59
2-Hexanone
Concen: 16.189 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060847.D
Acq: 6 Apr 2020 13:42

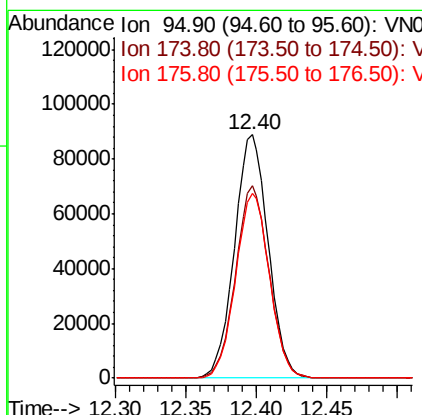
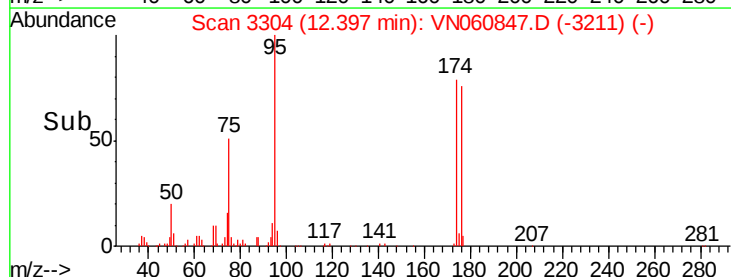
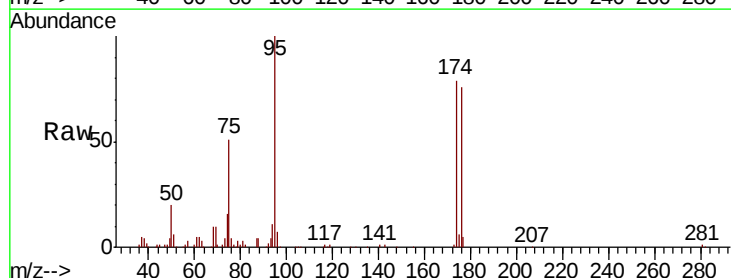
Instrument :
MSVOA_N
ClientSampleId :
TP-8

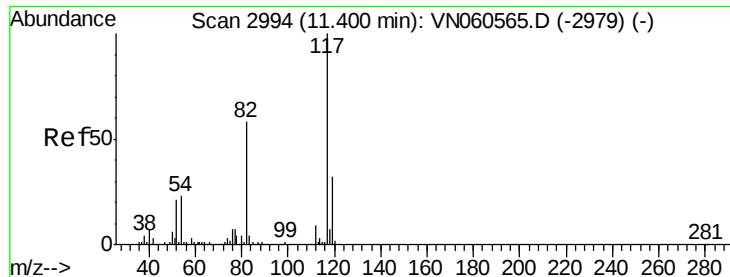
Tot Ion: 43 Resp: 36810
Ion Ratio Lower Upper
43 100
58 19.5 26.7 80.1#



#62
4-Bromofluorobenzene
Concen: 51.165 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060847.D
Acq: 6 Apr 2020 13:42

Tgt Ion: 95 Resp: 148876
Ion Ratio Lower Upper
95 100
174 78.3 0.0 157.6
176 76.0 0.0 150.6

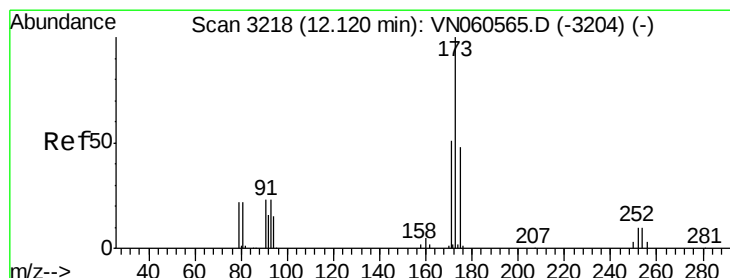
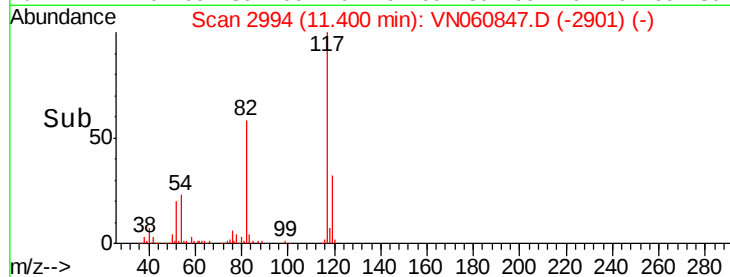
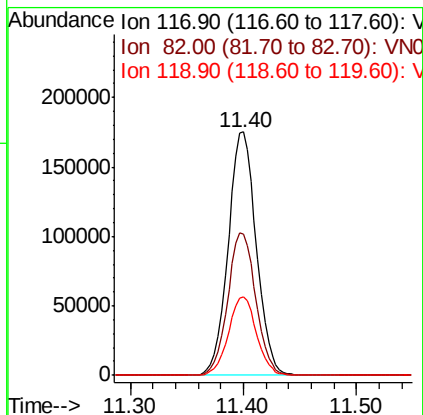
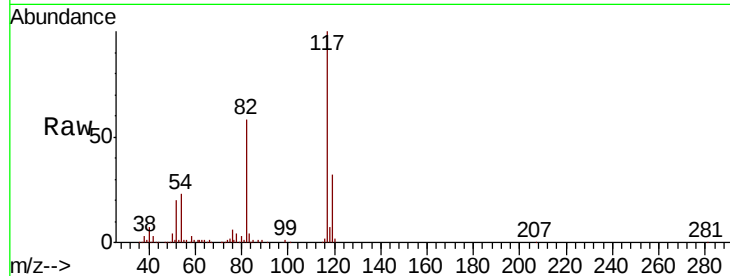




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060847.D
Acq: 6 Apr 2020 13:42

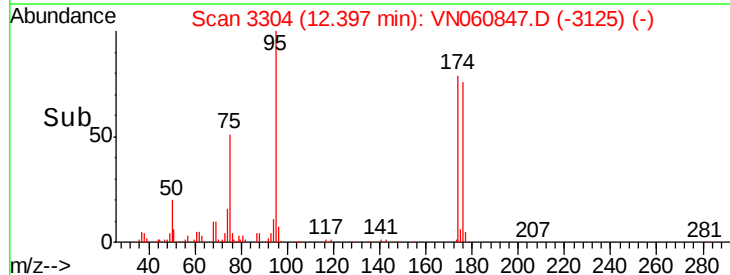
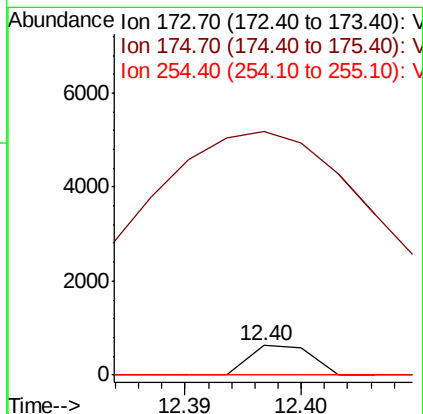
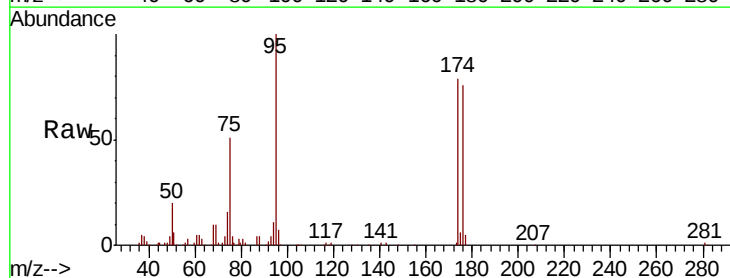
Instrument :
MSVOA_N
ClientSampled :
TP-8

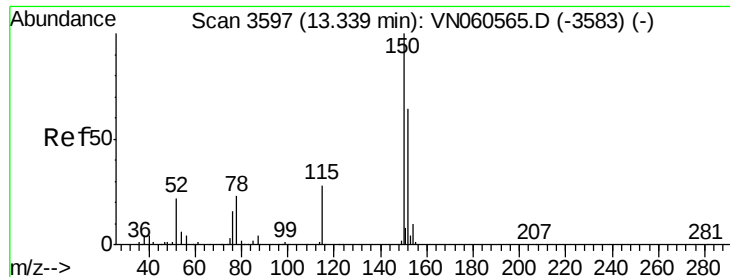
Tot Ion:117 Resp: 302366
Ion Ratio Lower Upper
117 100
82 57.9 46.7 70.1
119 32.3 25.5 38.3



#71
Bromoform
Concen: 1.805 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060847.D
Acq: 6 Apr 2020 13:42

Tgt Ion:173 Resp: 233
Ion Ratio Lower Upper
173 100
175 3154.1 24.1 72.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060847.D

Acq: 6 Apr 2020 13:42

Instrument :

MSVOA_N

ClientSampleId :

TP-8

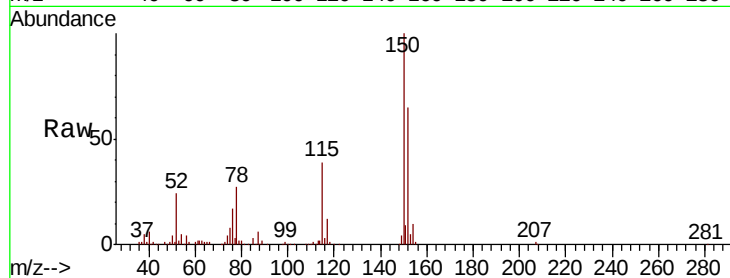
Tot Ion:152 Resp: 137026

Ion Ratio Lower Upper

152 100

115 59.6 30.2 90.6

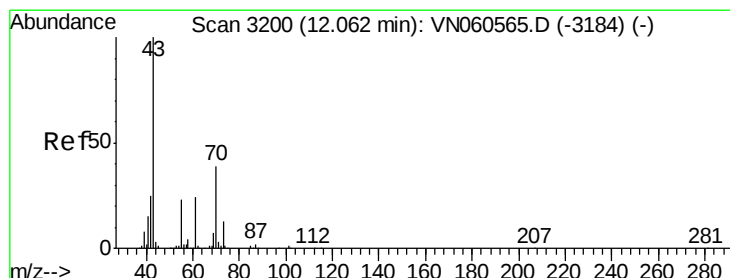
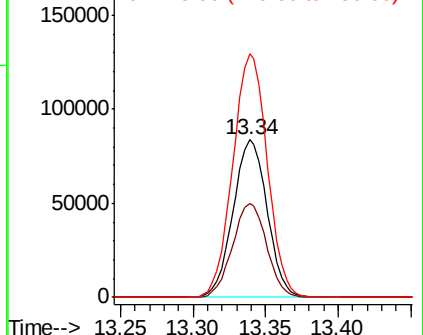
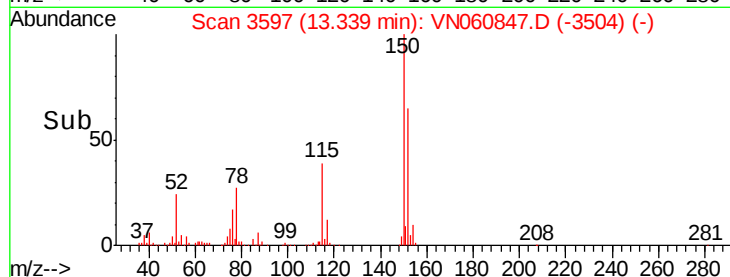
150 155.8 0.0 350.2



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-ethyl acetate

Concen: 0.251 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060847.D

Acq: 6 Apr 2020 13:42

Tgt Ion: 43 Resp: 1194

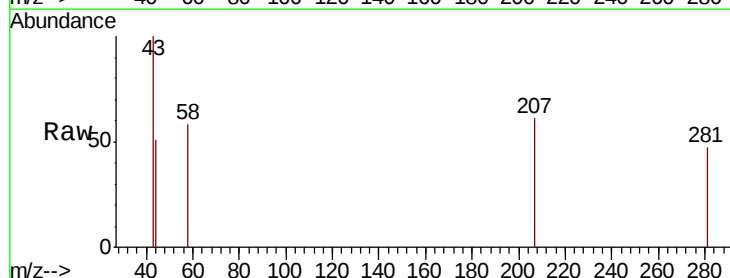
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

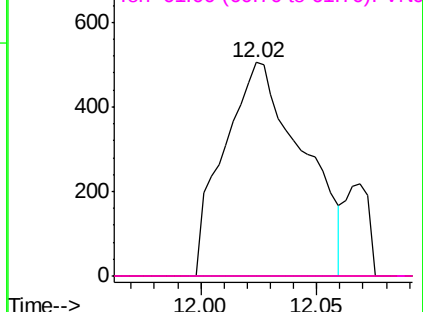
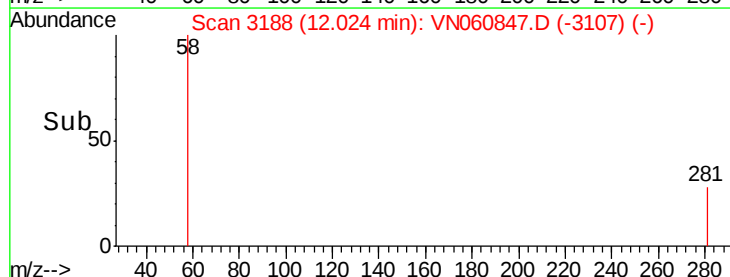


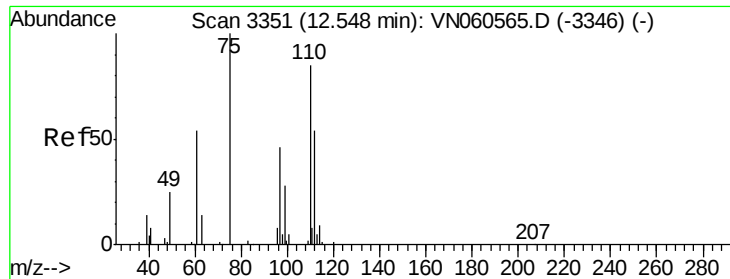
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.477 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060847.D

Acq: 6 Apr 2020 13:42

Instrument :

MSVOA_N

ClientSampled :

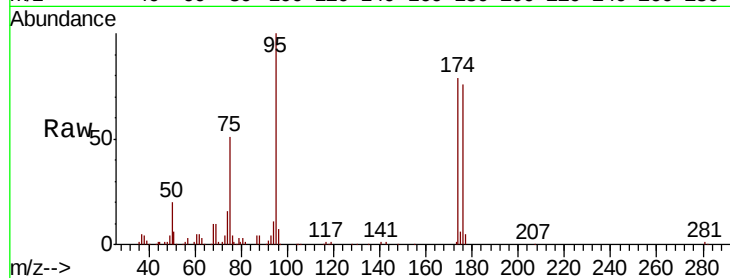
TP-8

Tot Ion: 75 Resp: 75328

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

12.40

50000

40000

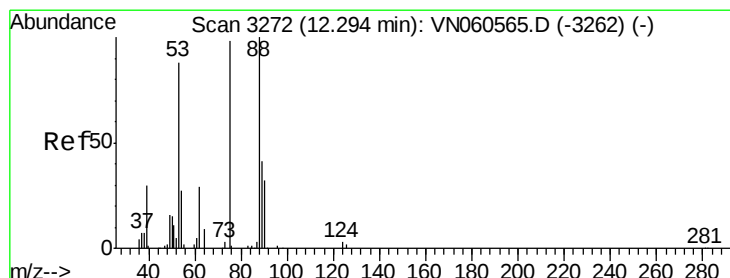
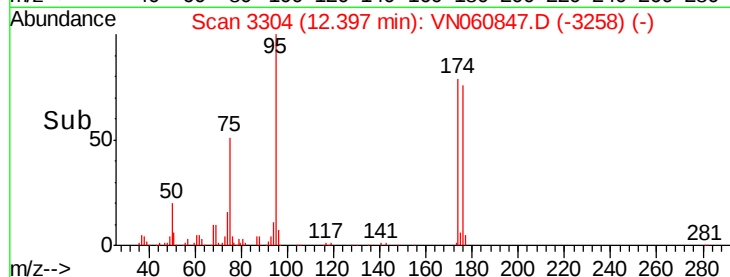
30000

20000

10000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.432 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060847.D

Acq: 6 Apr 2020 13:42

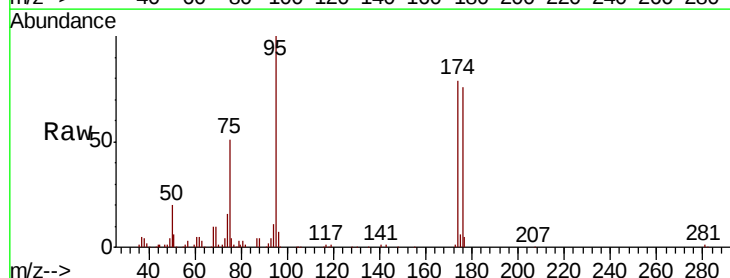
Tgt Ion: 75 Resp: 75328

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

12.40

60000

50000

40000

30000

20000

10000

0

Time-->

