

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040620\
 Data File : VN060851.D
 Acq On : 6 Apr 2020 15:12
 Operator : JC/MD
 Sample : L2129-29
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2

Quant Time: Apr 07 07:04:45 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	205973	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	343526	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	328659	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147564	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	134046	47.41	ug/l	0.00
Spiked Amount						
			Recovery	=	94.82%	
35) Dibromofluoromethane	7.56	113	103497	49.83	ug/l	0.00
Spiked Amount						
			Recovery	=	99.66%	
50) Toluene-d8	10.08	98	429863	50.66	ug/l	0.00
Spiked Amount						
			Recovery	=	101.32%	
62) 4-Bromofluorobenzene	12.40	95	160015	51.46	ug/l	0.00
Spiked Amount						
			Recovery	=	102.92%	

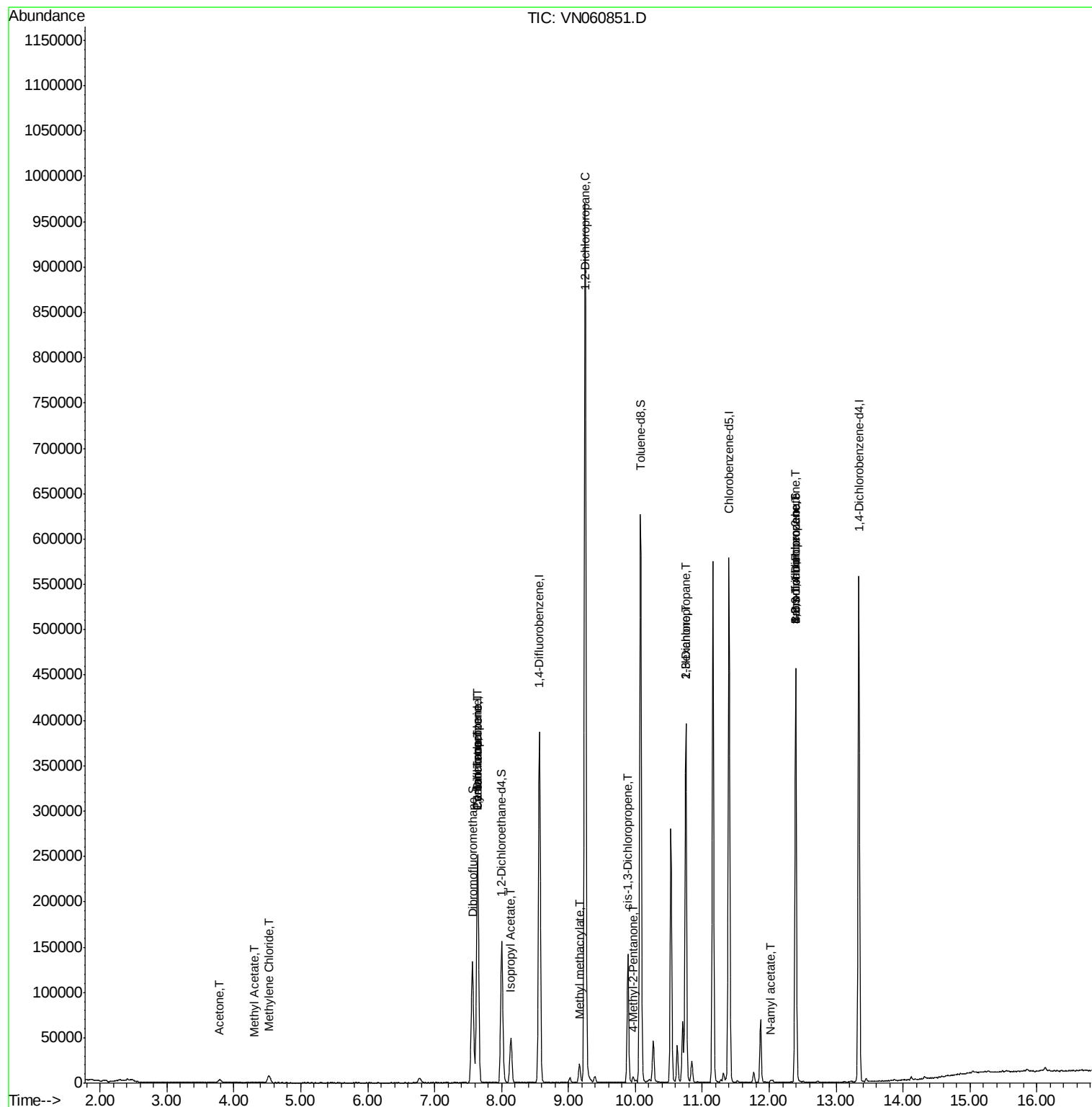
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6481	6.471	ug/l	97
18) Methyl Acetate	4.29	43	1794	0.636	ug/l #	65
20) Methylene Chloride	4.52	84	6185	2.510	ug/l	100
31) Cyclohexane	7.64	56	4217	0.926	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16646	5.004	ug/l #	49
38) Carbon Tetrachloride	7.64	117	20472	6.867	ug/l #	16
43) Isopropyl Acetate	8.14	43	61340	10.348	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	1010	0.381	ug/l #	43
48) Methyl methacrylate	9.16	41	2937	1.113	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4656	1.380	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	25064	5.975	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3744	0.925	ug/l #	42
59) 2-Hexanone	10.75	43	58419	24.043	ug/l #	52
71) Bromoform	12.39	173	294	1.825	ug/l #	1
74) N-amyl acetate	12.02	43	3402	0.665	ug/l #	45
76) 1,2,3-Trichloropropane	12.39	75	80609	25.316	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	80609	65.019	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# 1825

Delta R.T. -0.00 min

Lab File: VN060851.D

Acq: 6 Apr 2020 15:12

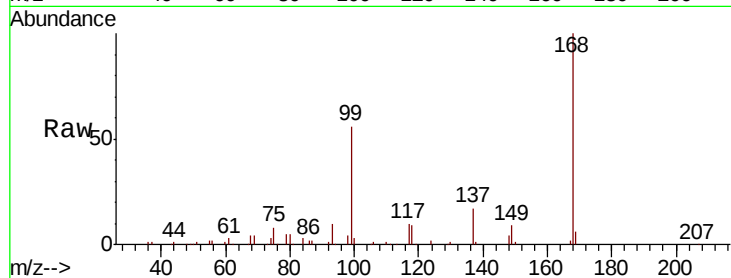
Instrument :
MSVOA_N
ClientSampled :
TP-2

Tot Ion:168 Resp: 205973

Ion Ratio Lower Upper

168 100

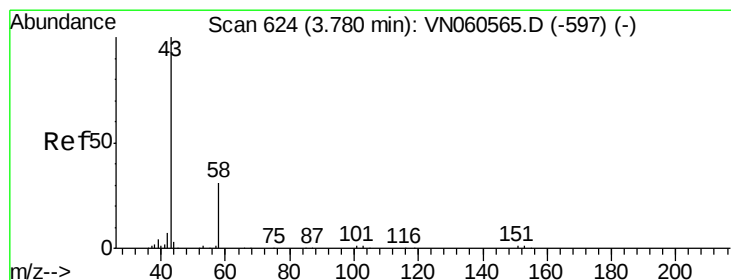
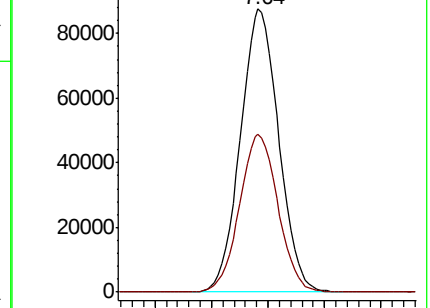
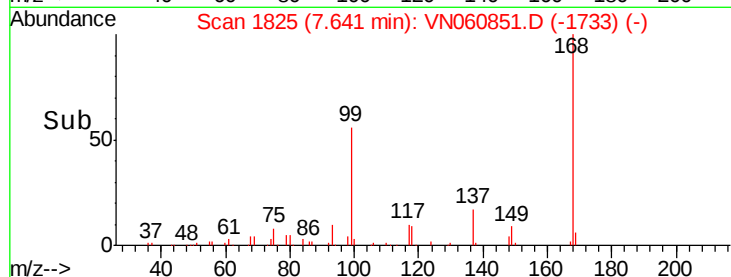
99 56.0 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64



#16

Acetone

Concen: 6.471 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060851.D

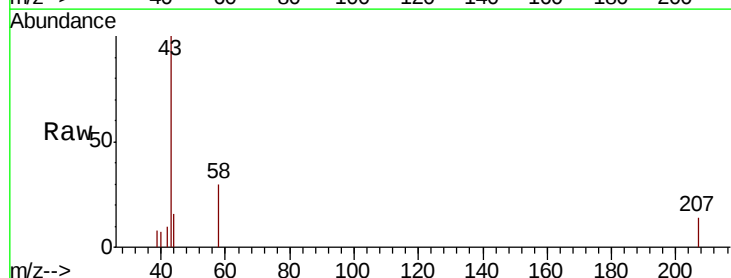
Acq: 6 Apr 2020 15:12

Tgt Ion: 43 Resp: 6481

Ion Ratio Lower Upper

43 100

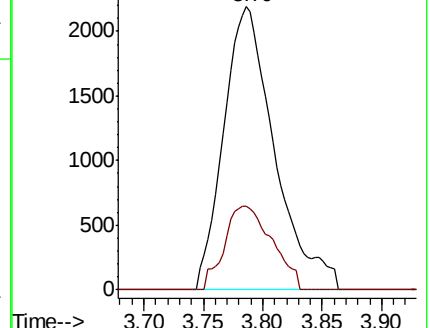
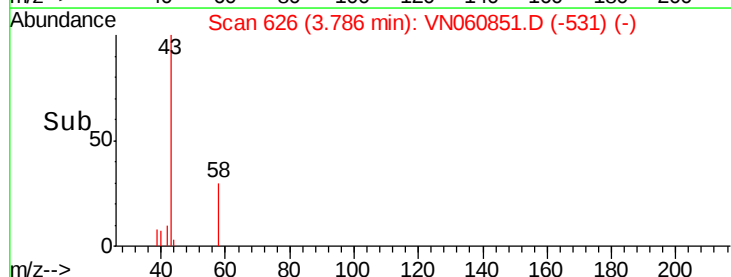
58 29.6 25.1 37.7

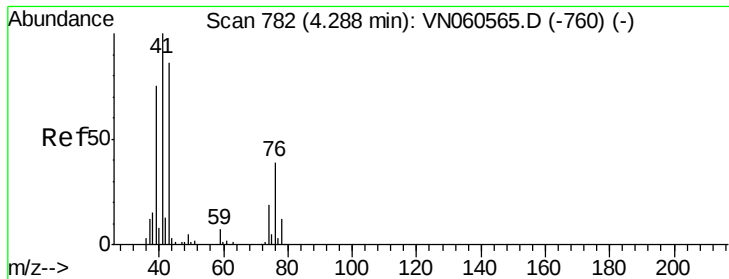


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.79

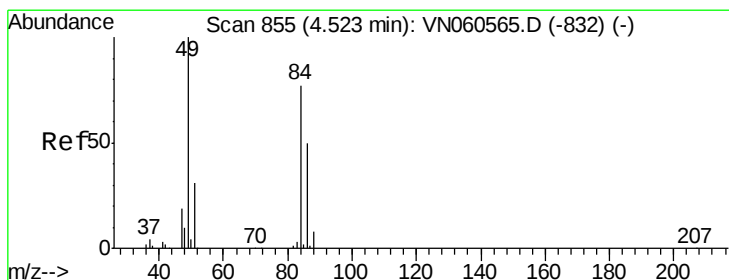
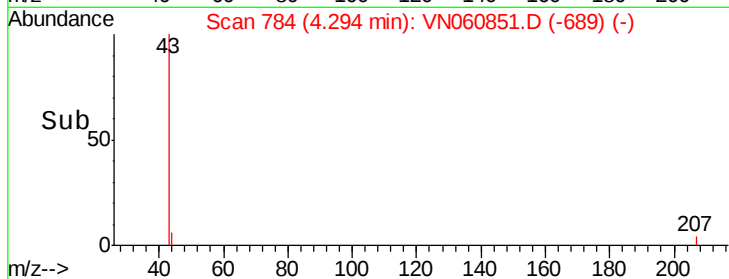
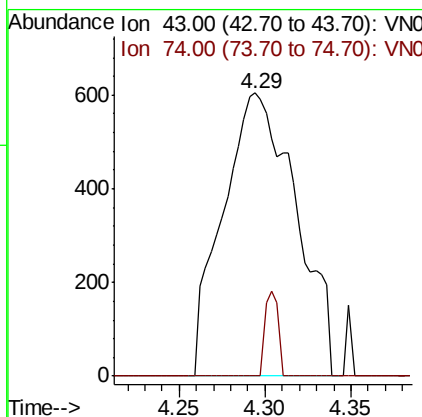
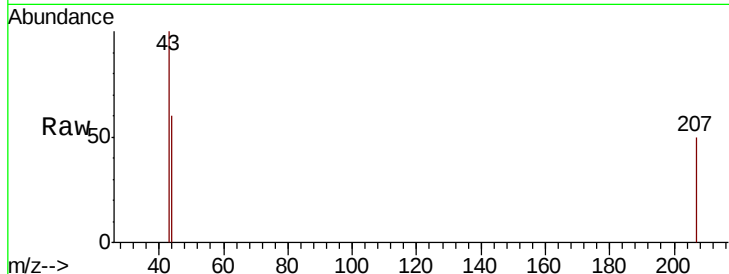




#18
Methvl Acetate
Concen: 0.636 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060851.D
Acq: 6 Apr 2020 15:12

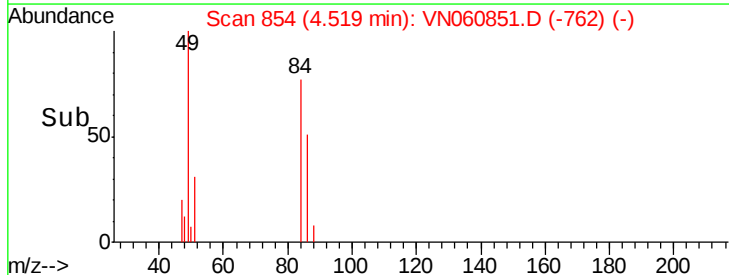
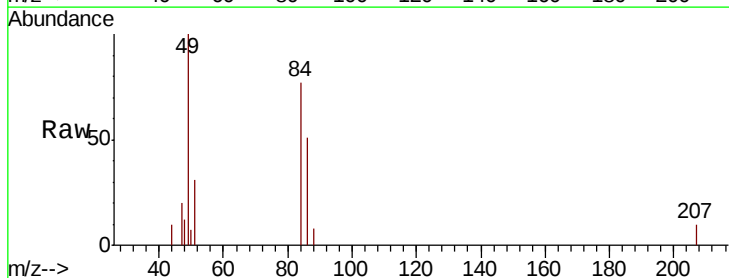
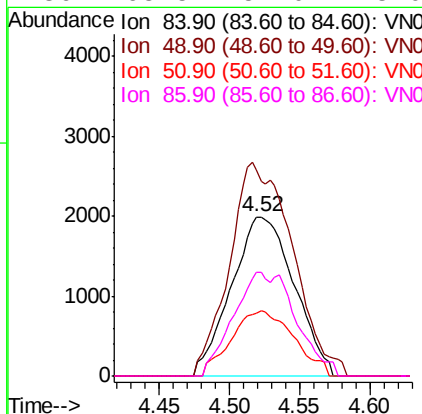
Instrument :
MSVOA_N
ClientSampled :
TP-2

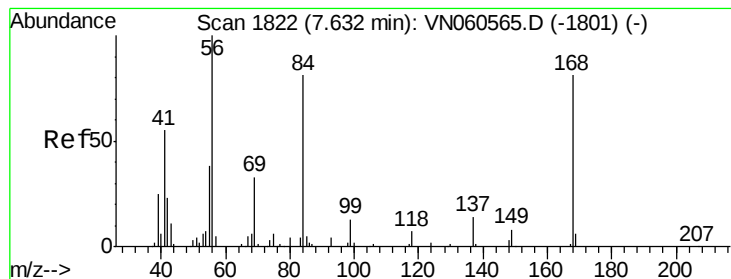
Tot Ion: 43 Resp: 1794
Ion Ratio Lower Upper
43 100
74 5.4 17.5 26.3#



#20
Methylene Chloride
Concen: 2.510 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060851.D
Acq: 6 Apr 2020 15:12

Tgt Ion: 84 Resp: 6185
Ion Ratio Lower Upper
84 100
49 129.5 103.3 154.9
51 39.5 31.6 47.4
86 65.5 52.0 78.0





#31

Cyclohexane

Concen: 0.926 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060851.D

Acq: 6 Apr 2020 15:12

Instrument :

MSVOA_N

ClientSampled :

TP-2

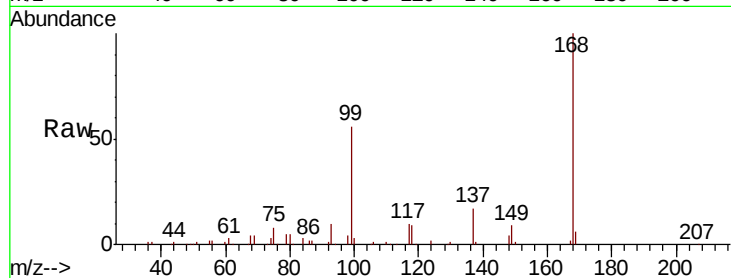
Tot Ion: 56 Resp: 4217

Ion Ratio Lower Upper

56 100

69 181.5 26.6 40.0#

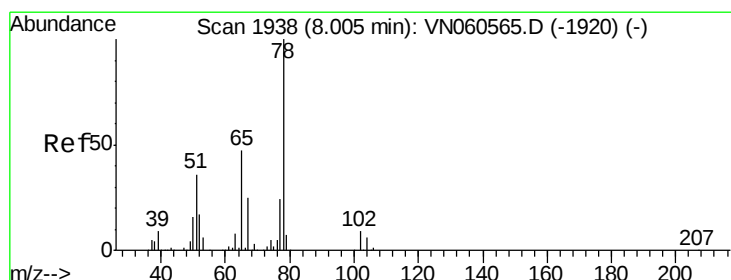
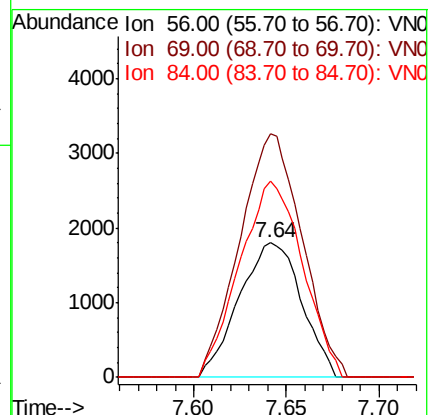
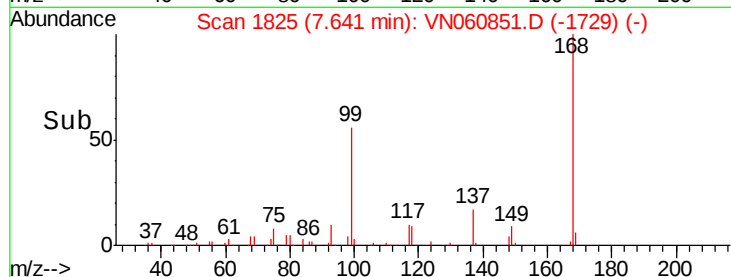
84 146.4 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 47.407 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060851.D

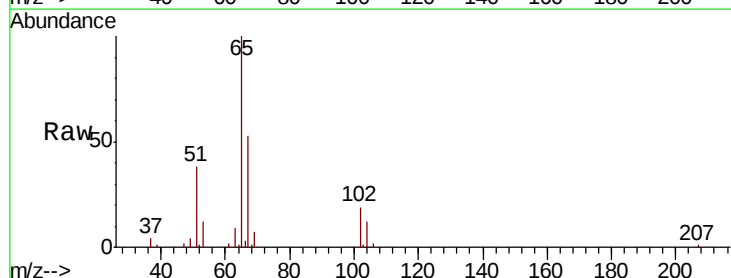
Acq: 6 Apr 2020 15:12

Tgt Ion: 65 Resp: 134046

Ion Ratio Lower Upper

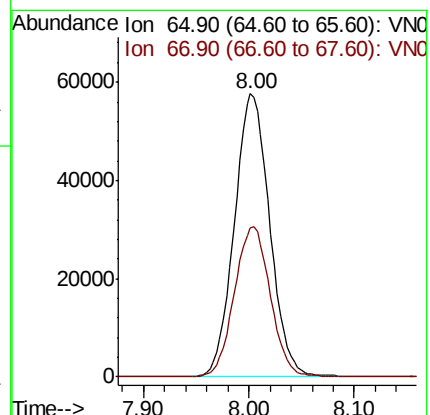
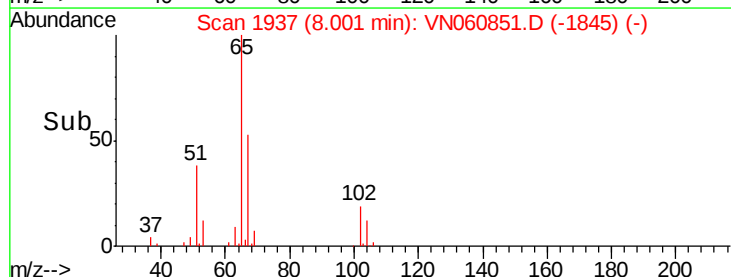
65 100

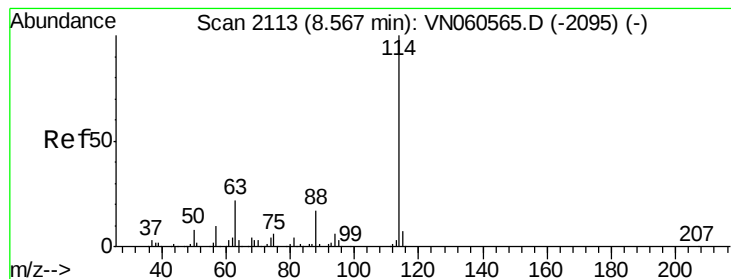
67 53.9 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060851.D

Acq: 6 Apr 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

TP-2

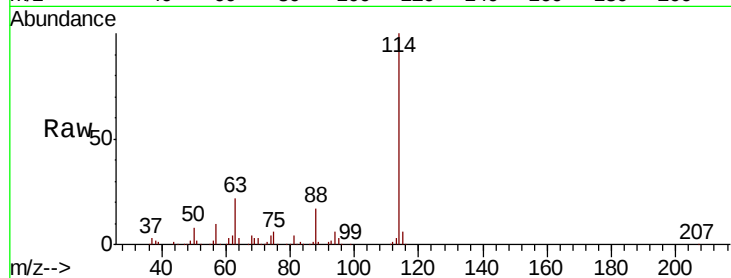
Tot Ion:114 Resp: 343526

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

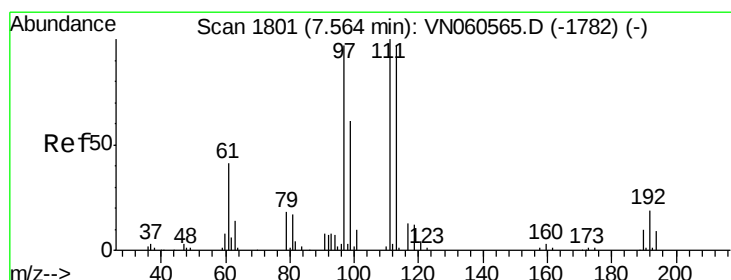
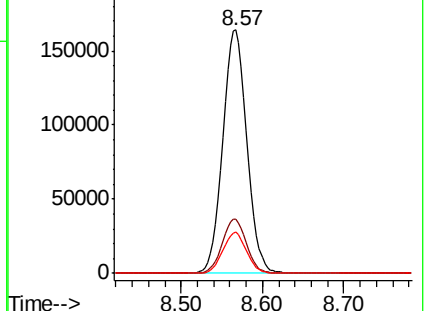
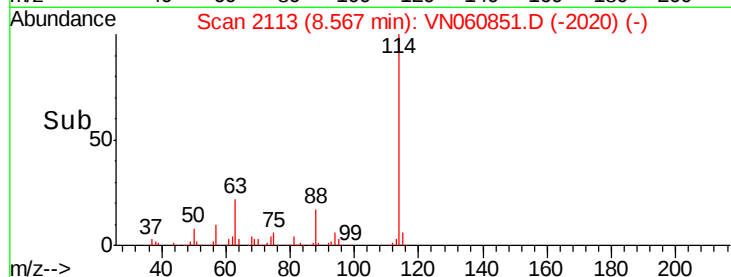
88 16.8 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 49.825 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060851.D

Acq: 6 Apr 2020 15:12

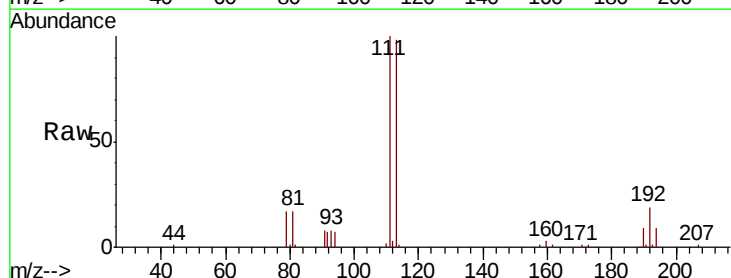
Tgt Ion:113 Resp: 103497

Ion Ratio Lower Upper

113 100

111 102.2 82.9 124.3

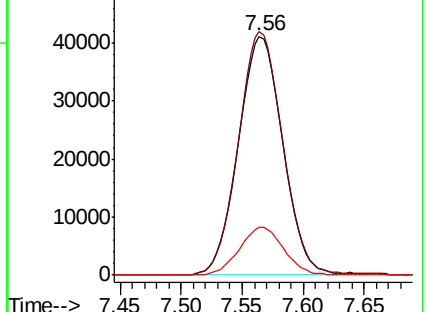
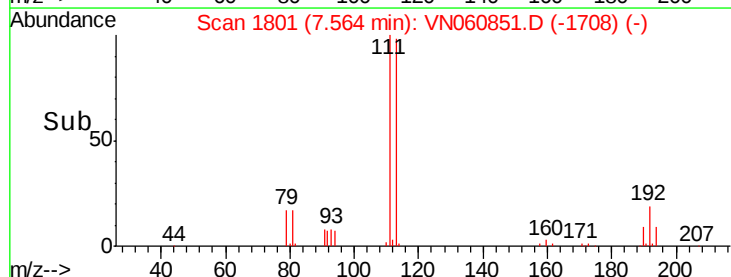
192 19.9 15.8 23.8

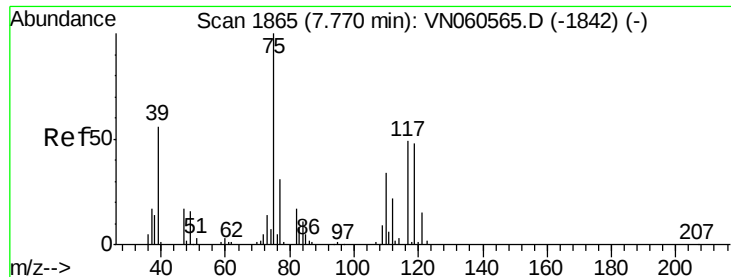


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

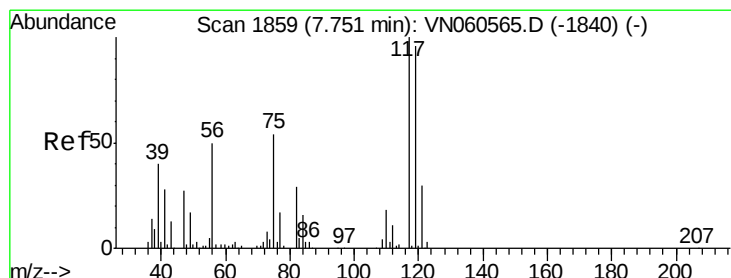
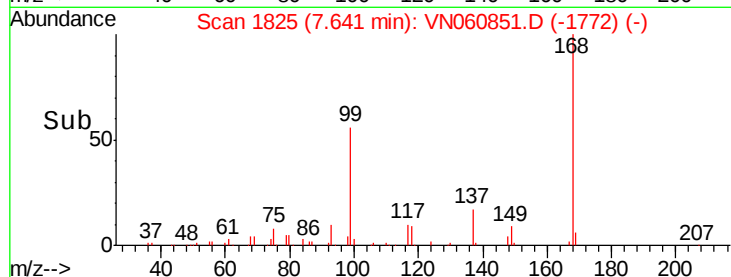
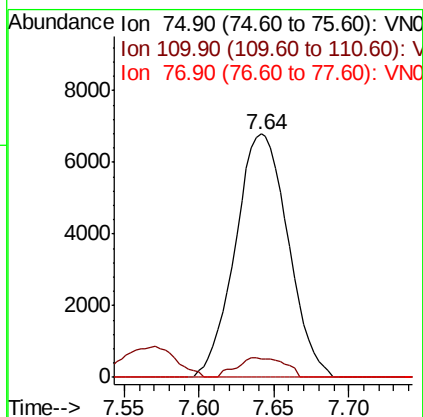
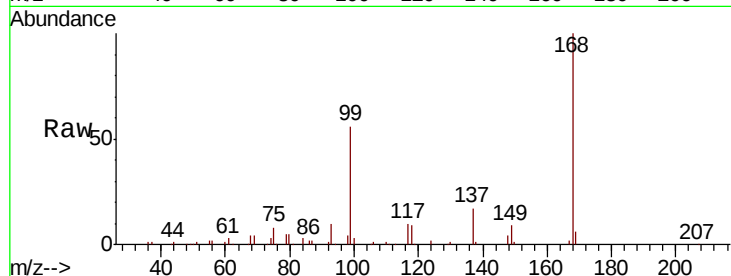




#36
 1,1-Dichloropropene
 Concen: 5.004 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060851.D
 Acq: 6 Apr 2020 15:12

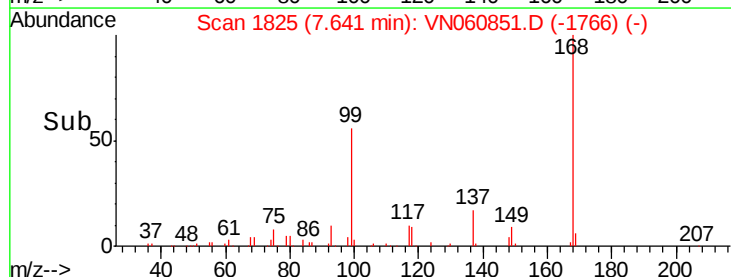
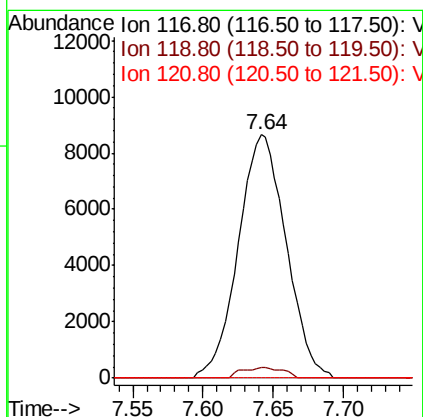
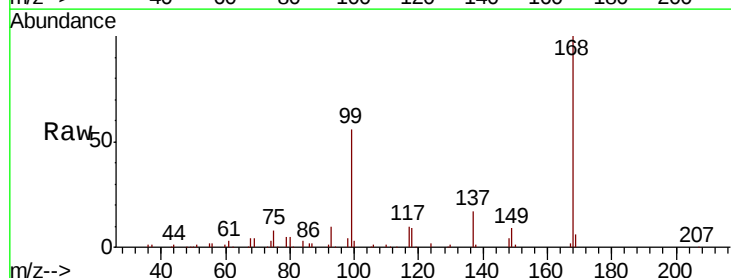
Instrument :
 MSVOA_N
 ClientSampleID :
 TP-2

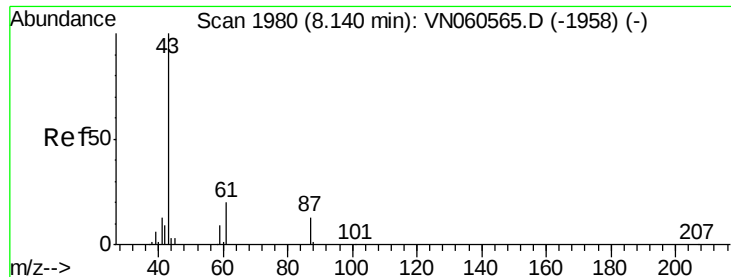
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.3	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.867 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060851.D
 Acq: 6 Apr 2020 15:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	76.2	114.2#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 10.348 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060851.D

Acq: 6 Apr 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

TP-2

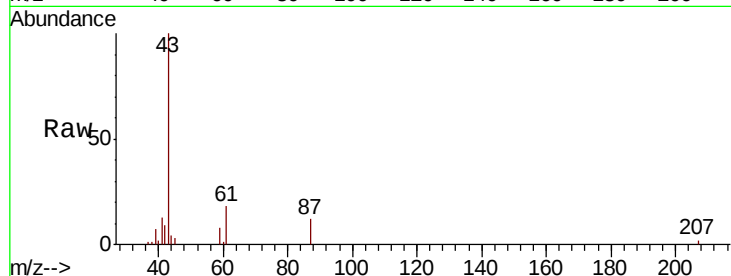
Tot Ion: 43 Resp: 61340

Ion Ratio Lower Upper

43 100

61 18.2 20.7 31.1#

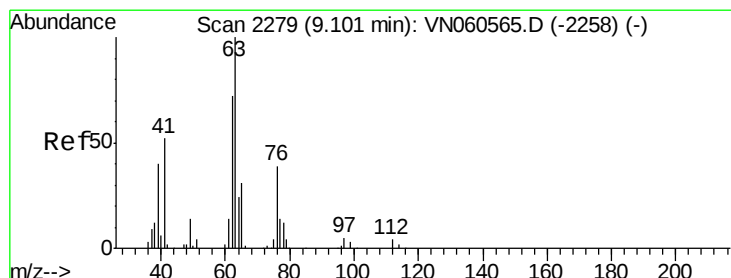
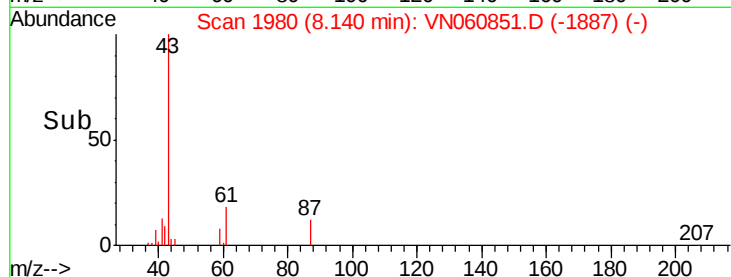
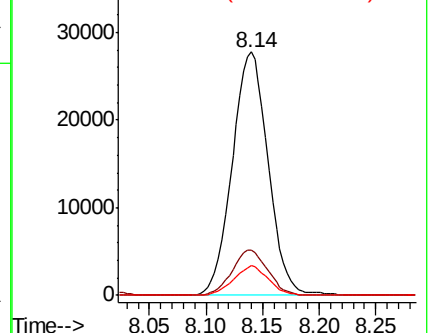
87 11.7 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060851.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060851.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060851.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.381 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060851.D

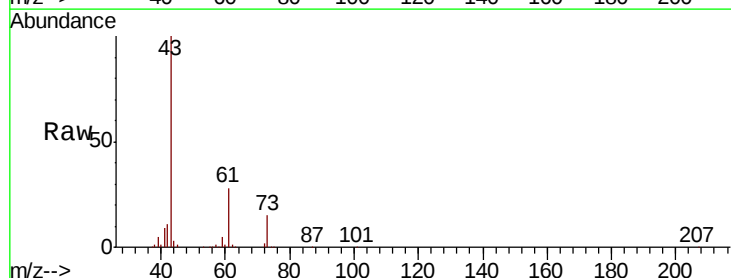
Acq: 6 Apr 2020 15:12

Tgt Ion: 63 Resp: 1010

Ion Ratio Lower Upper

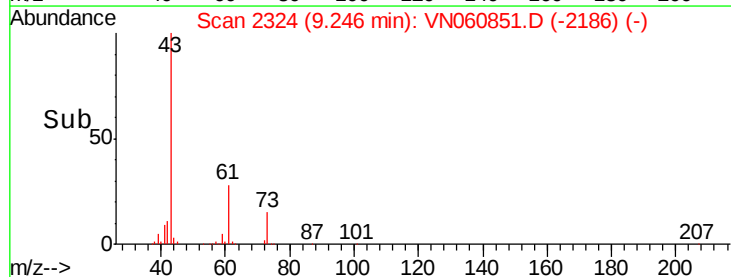
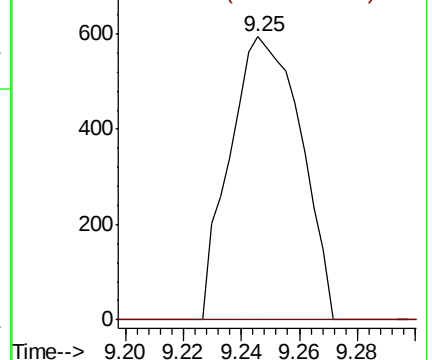
63 100

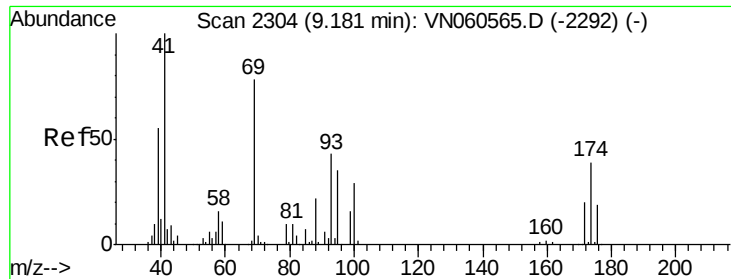
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060851.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060851.D (-2186) (-)

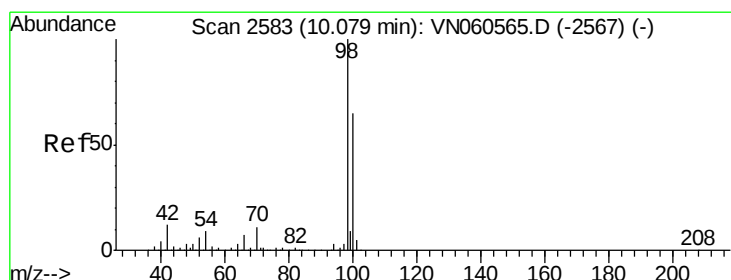
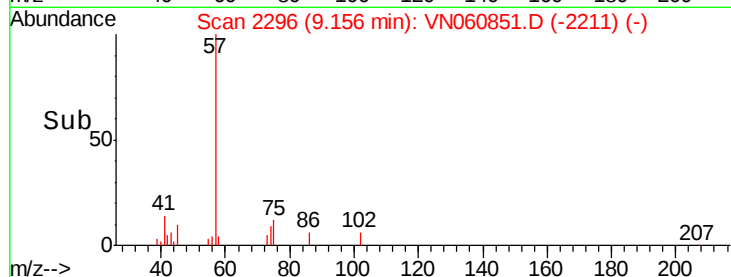
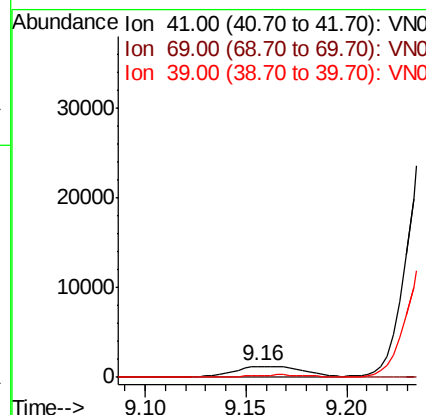
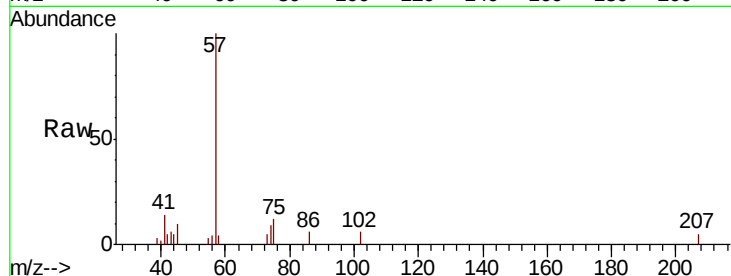




#48
Methvl methacrylate
Concen: 1.113 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.03 min
Lab File: VN060851.D
Acq: 6 Apr 2020 15:12

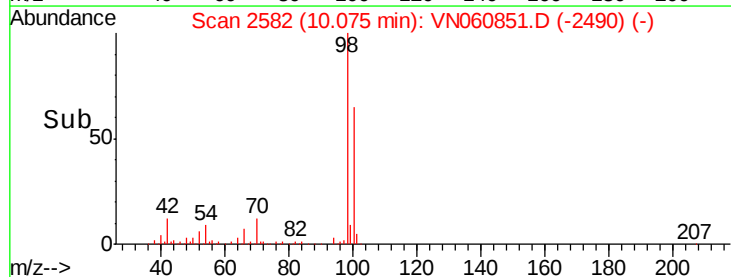
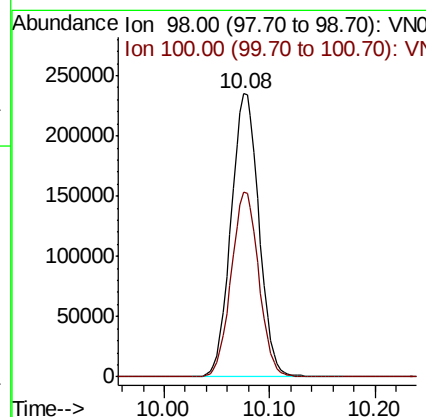
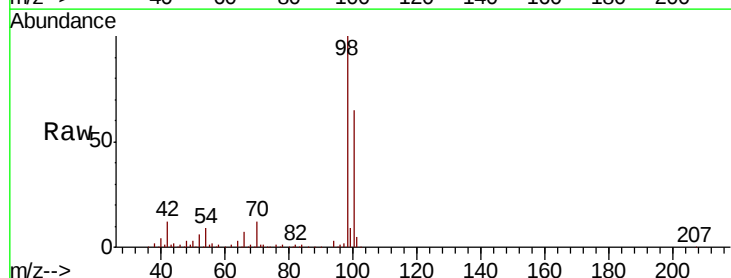
Instrument :
MSVOA_N
ClientSampleId :
TP-2

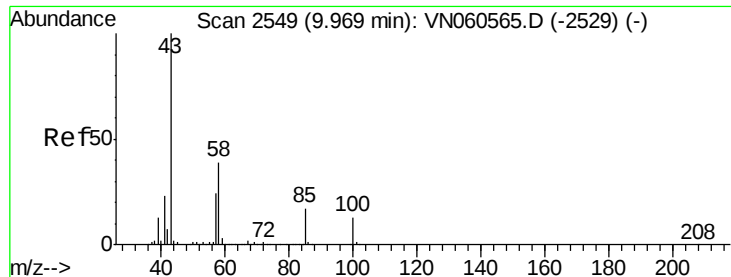
Tot Ion: 41 Resp: 2937
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.664 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060851.D
Acq: 6 Apr 2020 15:12

Tgt Ion: 98 Resp: 429863
Ion Ratio Lower Upper
98 100
100 64.6 51.8 77.8

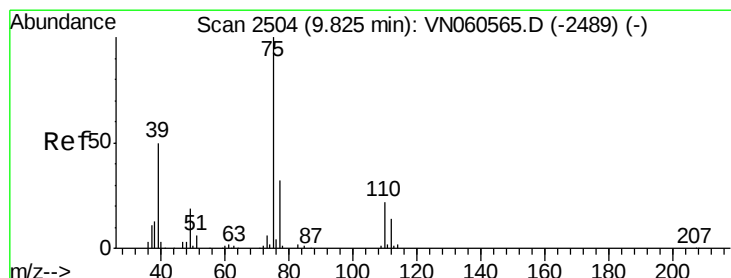
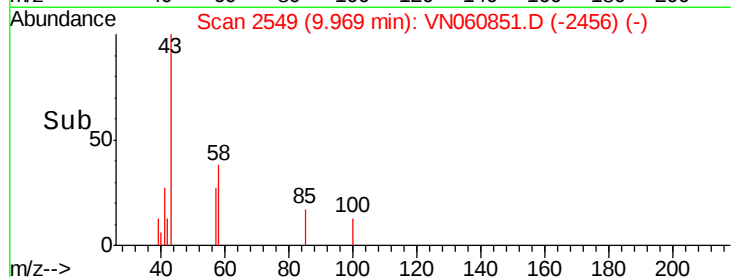
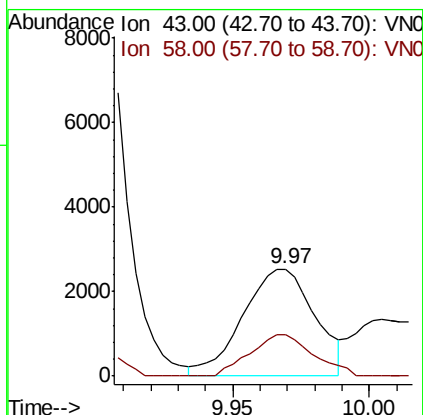
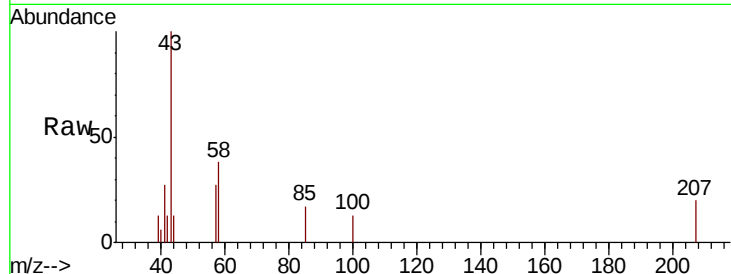




#51
4-Methyl-2-Pentanone
Concen: 1.380 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. -0.00 min
Lab File: VN060851.D
Acq: 6 Apr 2020 15:12

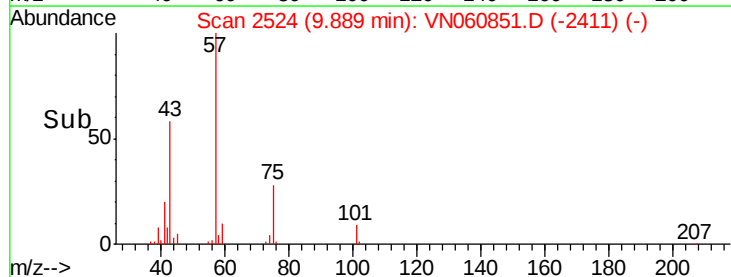
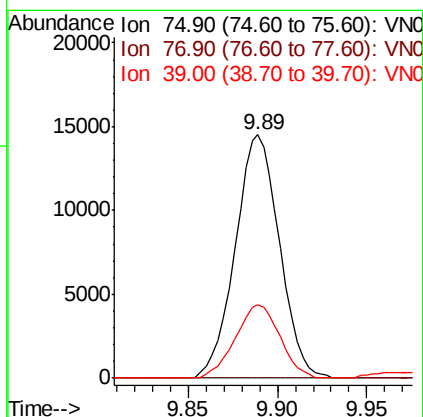
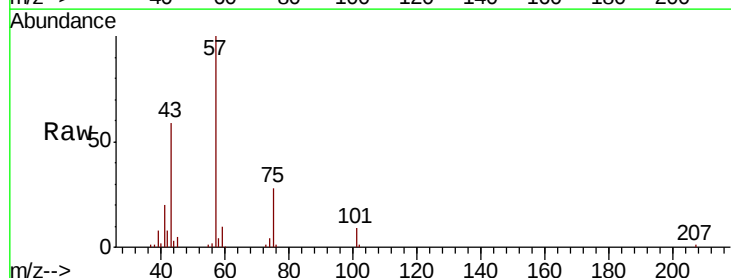
Instrument :
MSVOA_N
ClientSampled :
TP-2

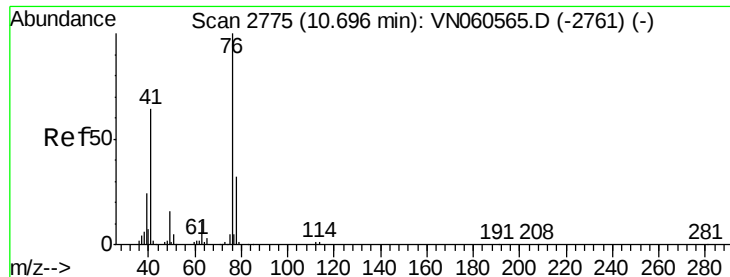
Tot Ion: 43 Resp: 4656
Ion Ratio Lower Upper
43 100
58 33.9 30.8 46.2



#54
cis-1,3-Dichloropropene
Concen: 5.975 ug/l
RT: 9.89 min Scan# 2524
Delta R.T. 0.06 min
Lab File: VN060851.D
Acq: 6 Apr 2020 15:12

Tgt Ion: 75 Resp: 25064
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#
39 30.3 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 0.925 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060851.D

Acq: 6 Apr 2020 15:12

Instrument :

MSVOA_N

ClientSampled :

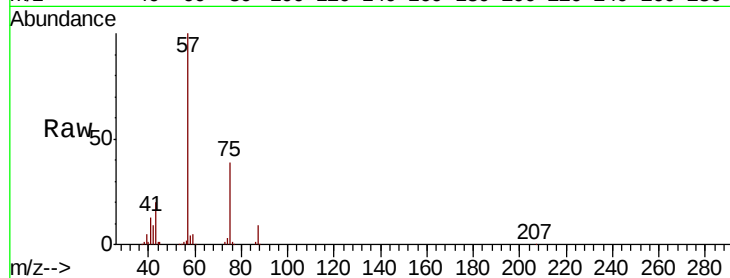
TP-2

Tot Ion: 76 Resp: 3744

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060851.D (-2682) (-)

Ion 77.90 (77.60 to 78.60): VN060851.D (-2682) (-)

10.75

2500

2000

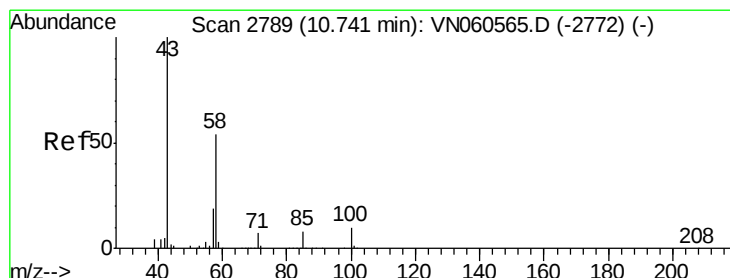
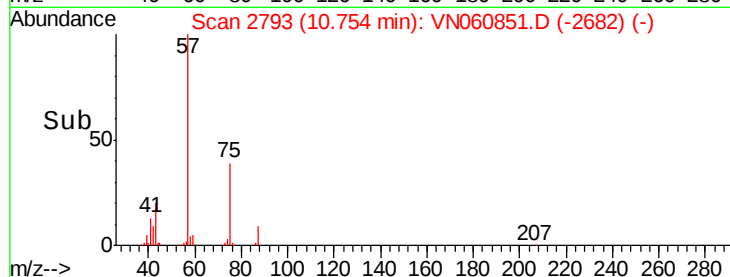
1500

1000

500

0

Time-->



#59

2-Hexanone

Concen: 24.043 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060851.D

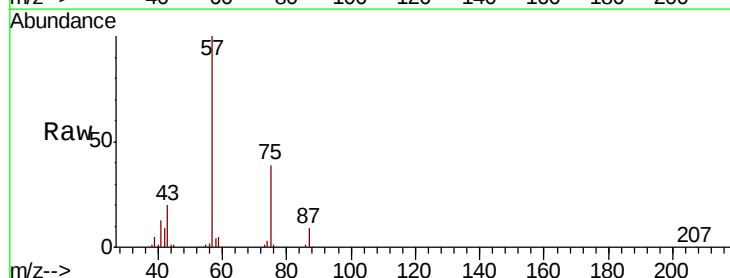
Acq: 6 Apr 2020 15:12

Tgt Ion: 43 Resp: 58419

Ion Ratio Lower Upper

43 100

58 19.3 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN060851.D (-2696) (-)

Ion 58.00 (57.70 to 58.70): VN060851.D (-2696) (-)

10.75

40000

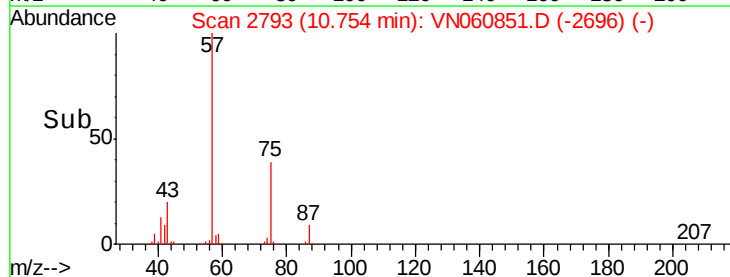
30000

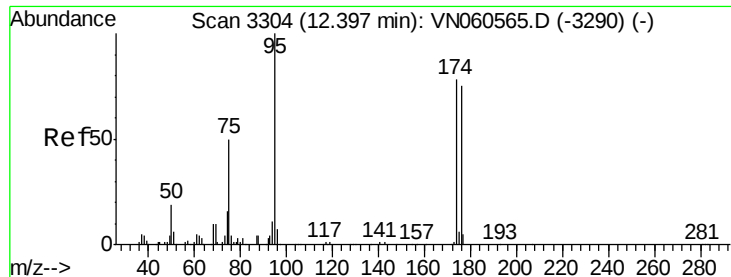
20000

10000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 51.461 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060851.D

Acq: 6 Apr 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

TP-2

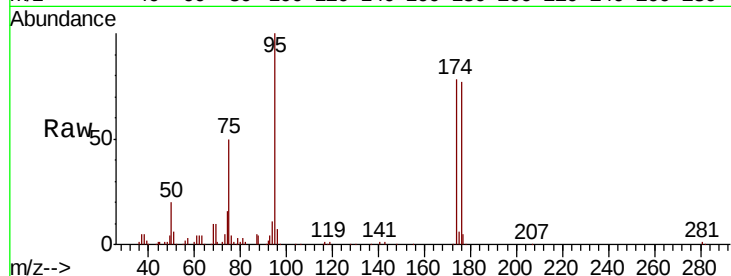
Tot Ion: 95 Resp: 160015

Ion Ratio Lower Upper

95 100

174 77.1 0.0 157.6

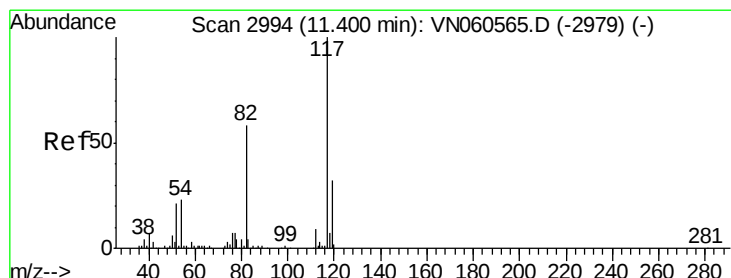
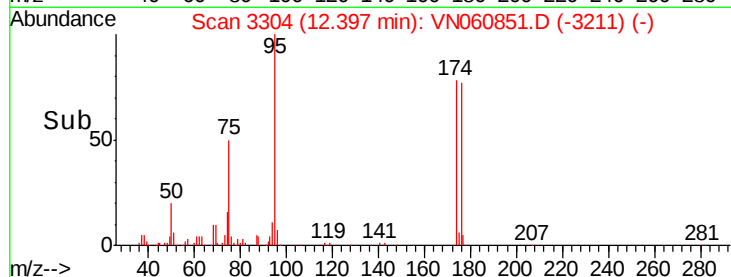
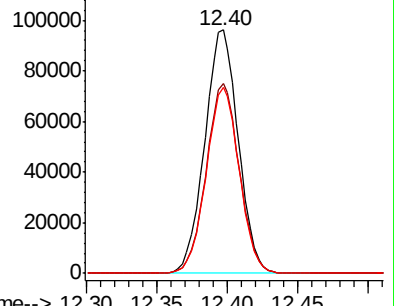
176 75.3 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060851.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060851.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060851.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060851.D

Acq: 6 Apr 2020 15:12

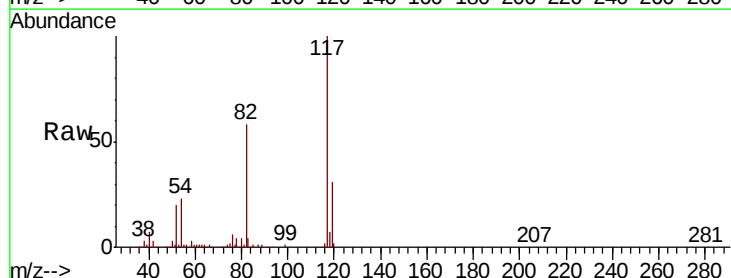
Tgt Ion: 117 Resp: 328659

Ion Ratio Lower Upper

117 100

82 58.1 46.7 70.1

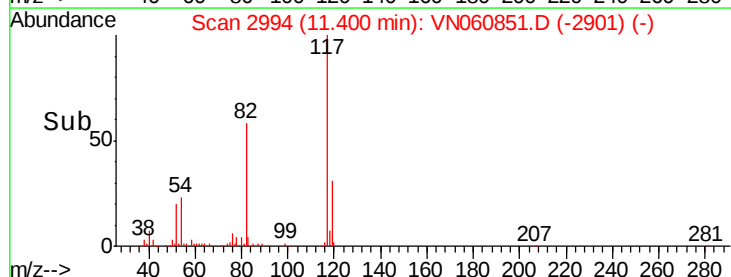
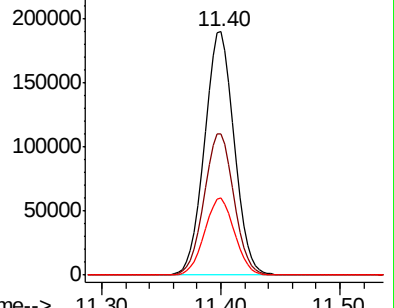
119 31.5 25.5 38.3

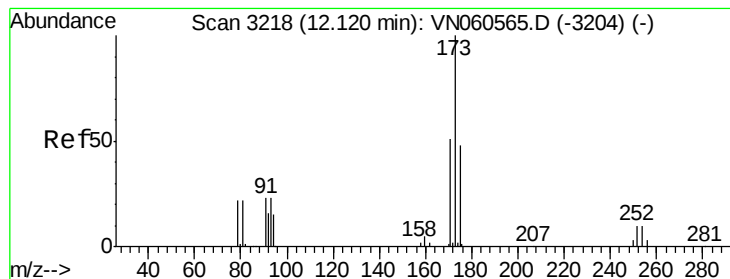


Abundance Ion 116.90 (116.60 to 117.60): VN060851.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060851.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060851.D (-2979) (-)





#71

Bromoform

Concen: 1.825 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.27 min

Lab File: VN060851.D

Acq: 6 Apr 2020 15:12

Instrument :

MSVOA_N

ClientSampled :

TP-2

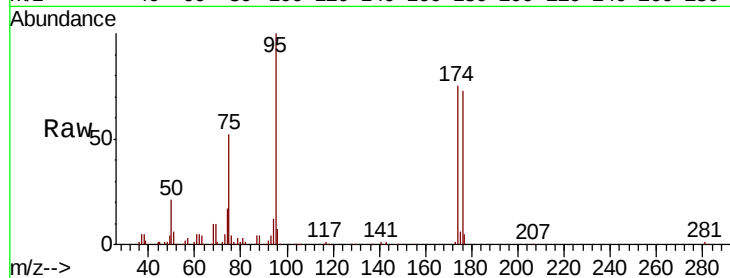
Tot Ion:173 Resp: 294

Ion Ratio Lower Upper

173 100

175 2747.6 24.1 72.4#

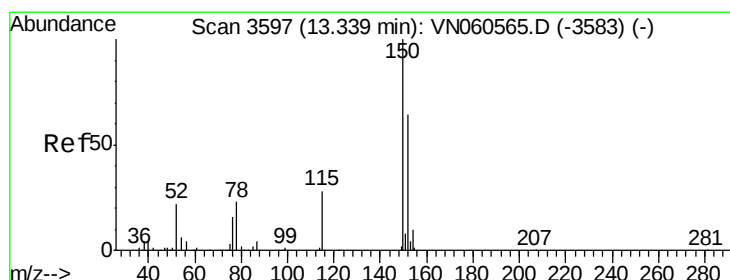
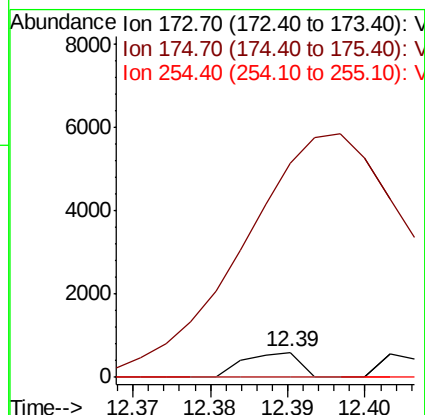
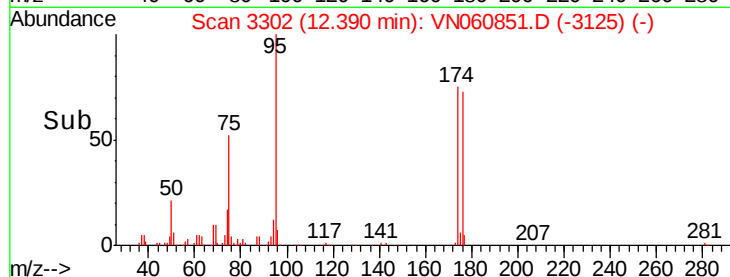
254 0.0 0.0 0.0



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: VN060851.D

Acq: 6 Apr 2020 15:12

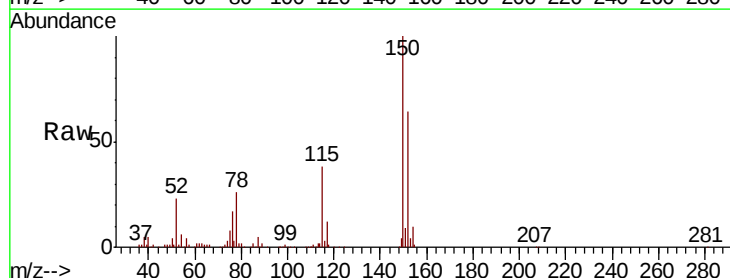
Tgt Ion:152 Resp: 147564

Ion Ratio Lower Upper

152 100

115 60.1 30.2 90.6

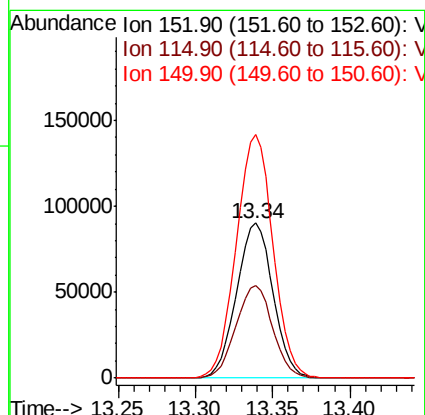
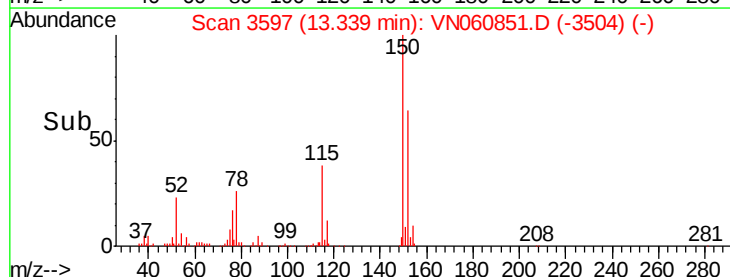
150 158.0 0.0 350.2

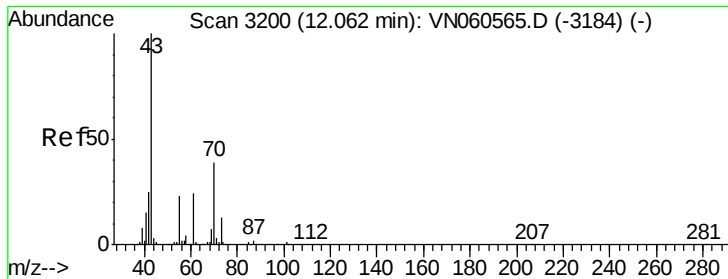


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.665 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060851.D

Acq: 6 Apr 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

TP-2

Tot Ion: 43 Resp: 3402

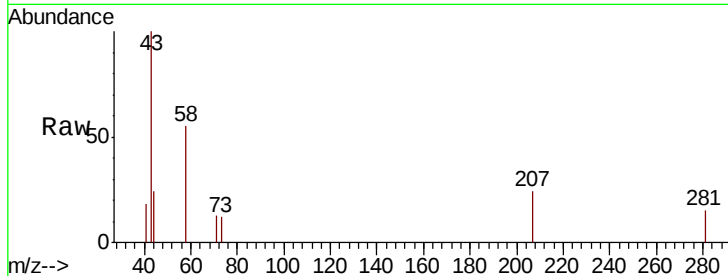
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

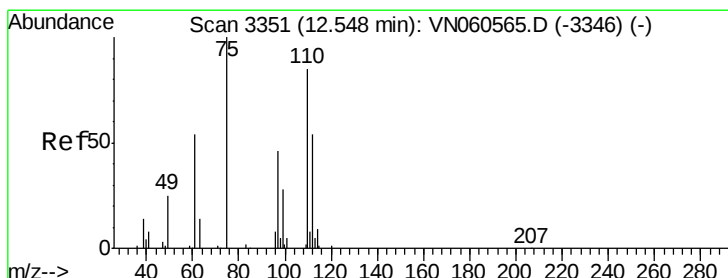
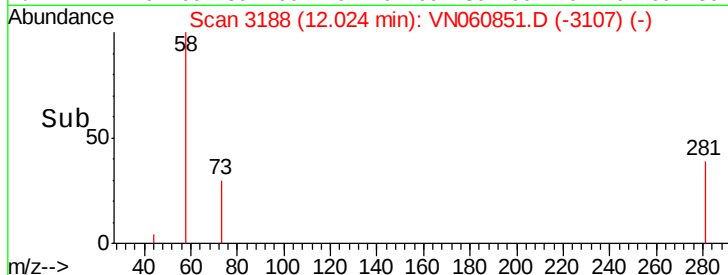
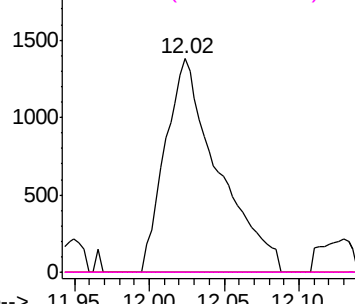


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 25.316 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN060851.D

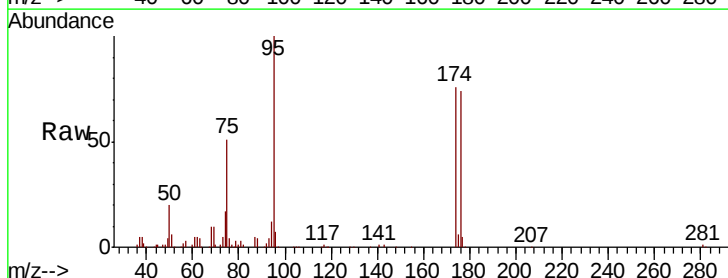
Acq: 6 Apr 2020 15:12

Tgt Ion: 75 Resp: 80609

Ion Ratio Lower Upper

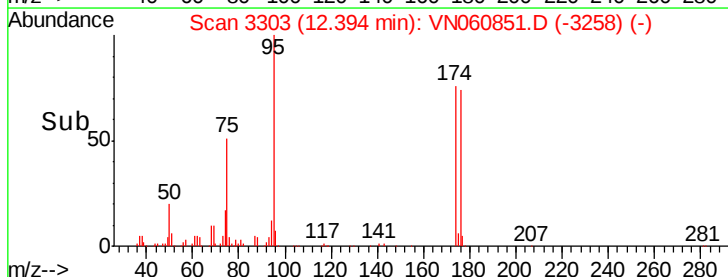
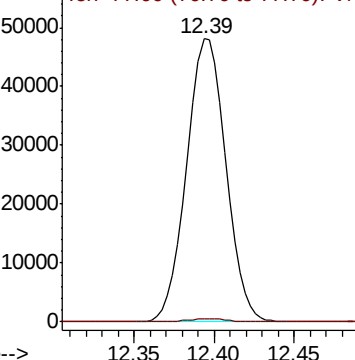
75 100

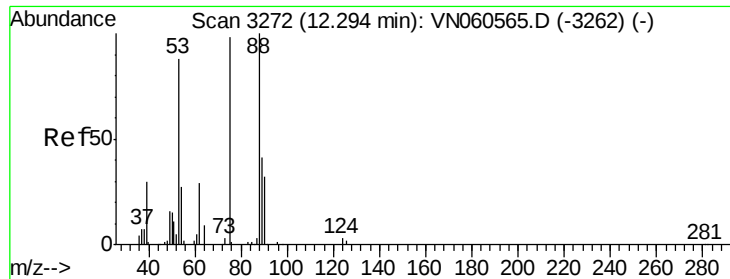
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 65.019 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060851.D

Acq: 6 Apr 2020 15:12

Instrument :

MSVOA_N

ClientSampleId :

TP-2

Tot Ion: 75 Resp: 80609

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#

