

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033020\
 Data File : VN060767.D
 Acq On : 30 Mar 2020 13:56
 Operator : JC/MD
 Sample : L2043-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 31 07:59:05 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	215193	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	357990	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	335612	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	150777	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	137525	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	
35) Dibromofluoromethane	7.56	113	105104	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
50) Toluene-d8	10.08	98	443255	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	
62) 4-Bromofluorobenzene	12.40	95	163838	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	

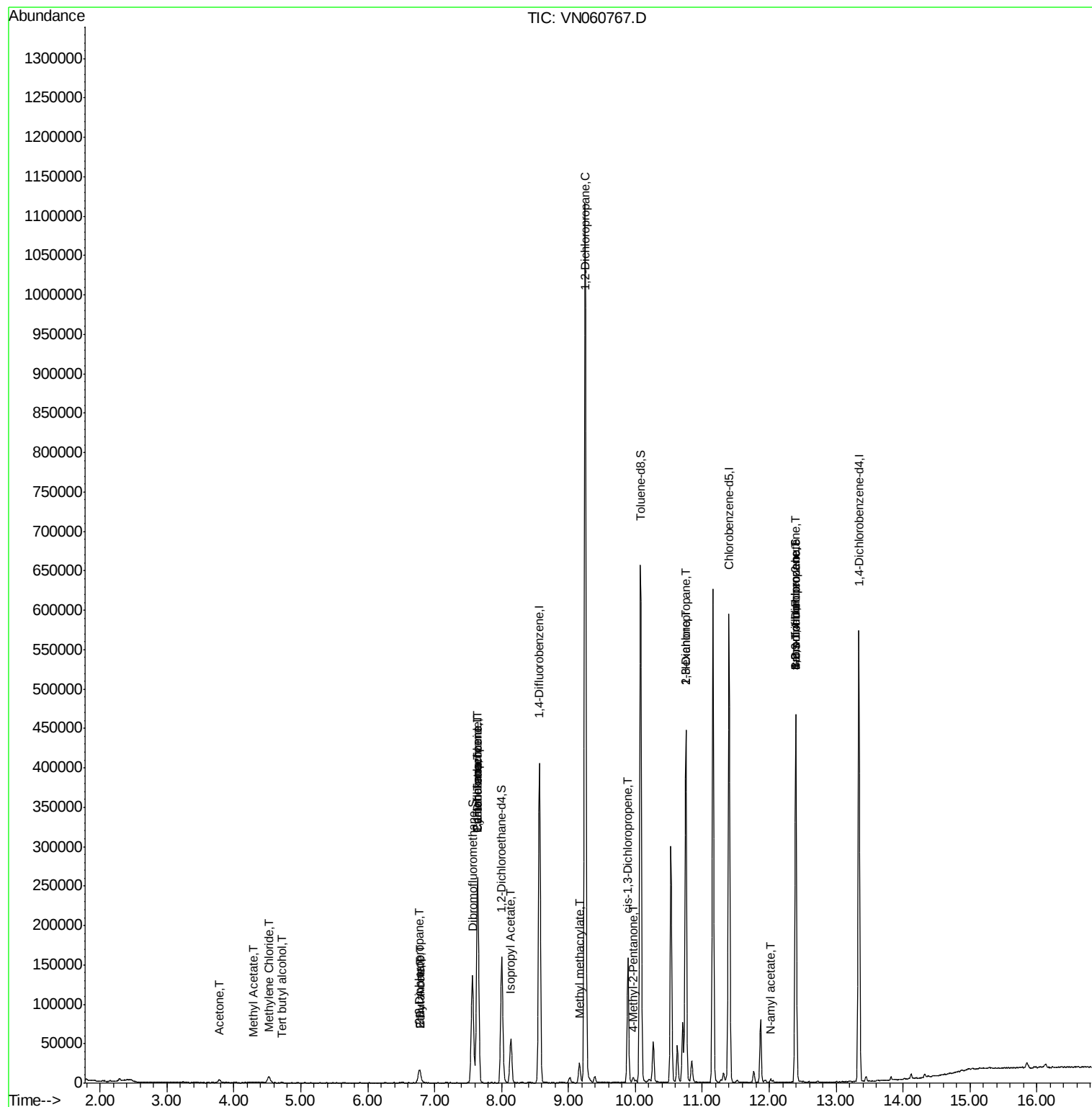
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	377	0.868	ug/l #	72
16) Acetone	3.78	43	7002	6.691	ug/l	99
18) Methyl Acetate	4.29	43	2119	0.719	ug/l #	60
20) Methylene Chloride	4.53	84	6127	2.380	ug/l	95
25) 2-Butanone	6.80	43	3278	1.936	ug/l	91
26) 2,2-Dichloropropane	6.77	77	1203	0.324	ug/l #	53
31) Cyclohexane	7.64	56	4499	0.946	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16726	4.825	ug/l #	49
37) Ethyl Acetate	6.80	43	3278	0.875	ug/l #	70
38) Carbon Tetrachloride	7.64	117	20359	6.553	ug/l #	16
43) Isopropyl Acetate	8.14	43	67693	10.959	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1257	0.455	ug/l #	43
48) Methyl methacrylate	9.16	41	3723	1.354	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5111	1.454	ug/l	96
54) cis-1,3-Dichloropropene	9.89	75	28082	6.424	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	4493	1.065	ug/l #	42
59) 2-Hexanone	10.75	43	67395	26.616	ug/l #	52
71) Bromoform	12.40	173	446	1.896	ug/l #	1
74) N-amyl acetate	12.02	43	4573	0.875	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	82902	25.481	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	82902	65.443	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: VN060767.D

Acq: 30 Mar 2020 13:56

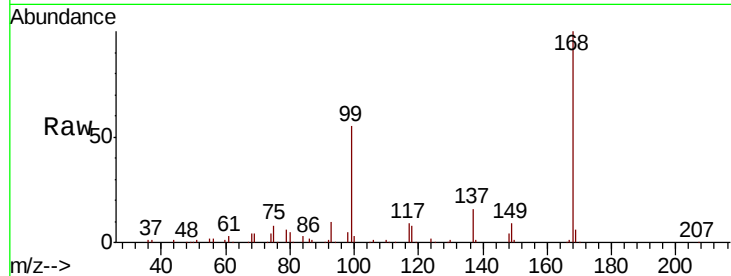
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 215193

Ion Ratio Lower Upper

168 100

99 55.5 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

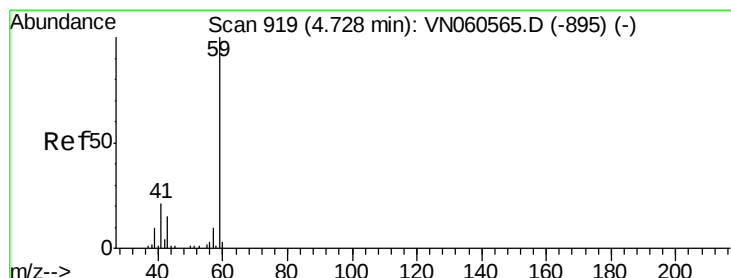
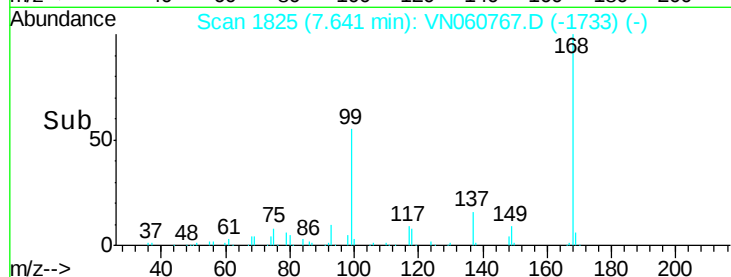
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.868 ug/l

RT: 4.72 min Scan# 916

Delta R.T. -0.01 min

Lab File: VN060767.D

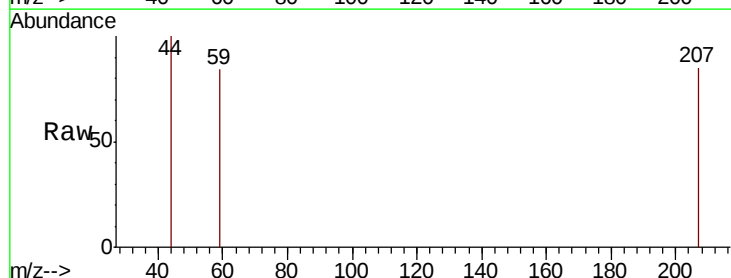
Acq: 30 Mar 2020 13:56

Tgt Ion: 59 Resp: 377

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.72

250

200

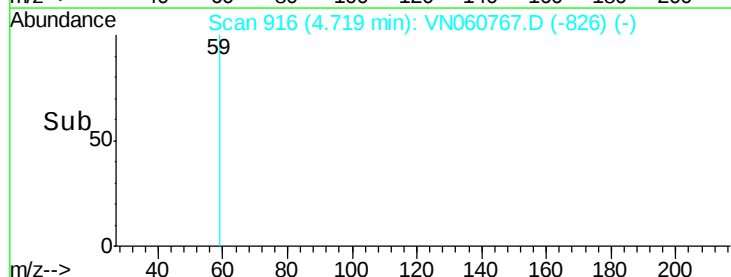
150

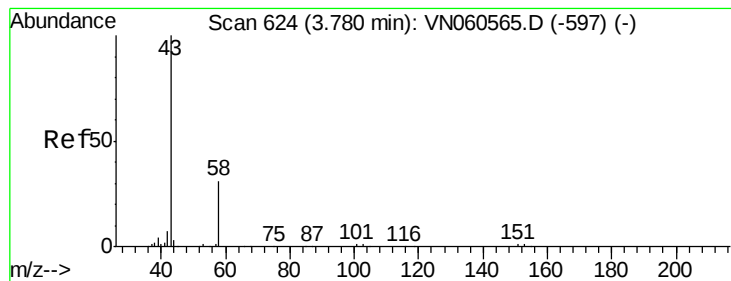
100

50

0

Time-->





#16

Acetone

Concen: 6.691 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

Instrument :

MSVOA_N

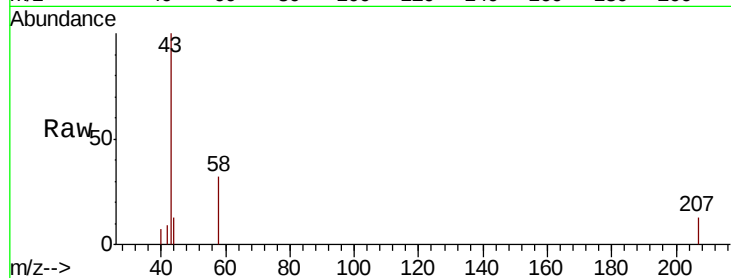
ClientSampled :

Tot Ion: 43 Resp: 7002

Ion Ratio Lower Upper

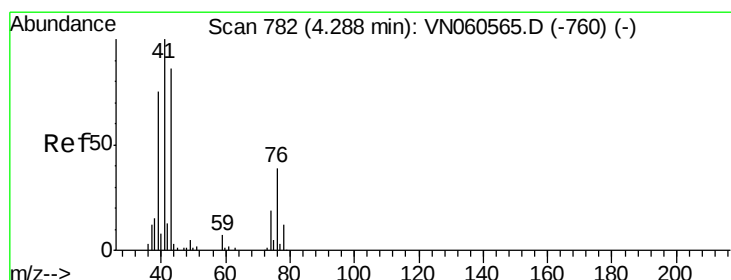
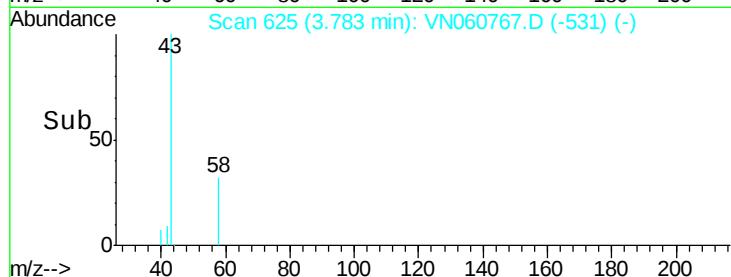
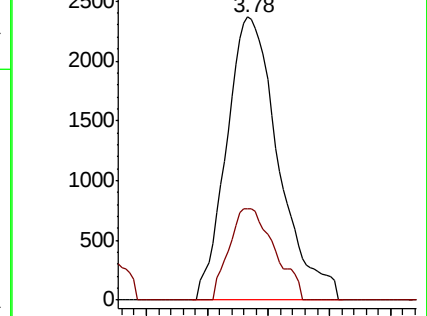
43 100

58 32.2 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: 0.719 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN060767.D

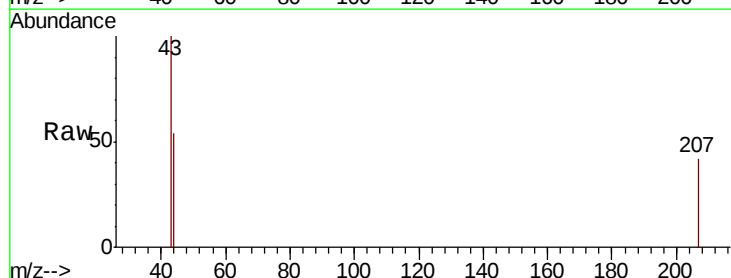
Acq: 30 Mar 2020 13:56

Tgt Ion: 43 Resp: 2119

Ion Ratio Lower Upper

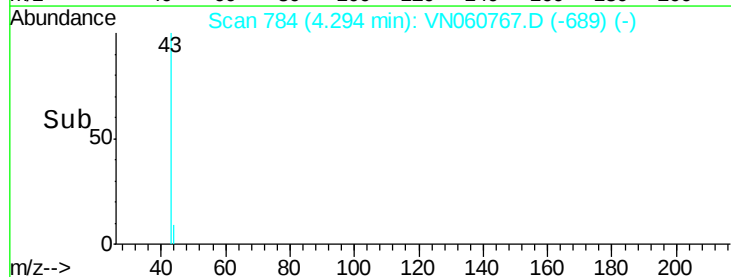
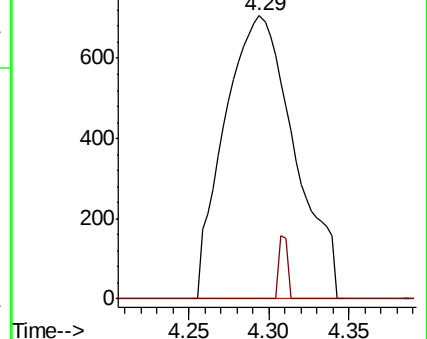
43 100

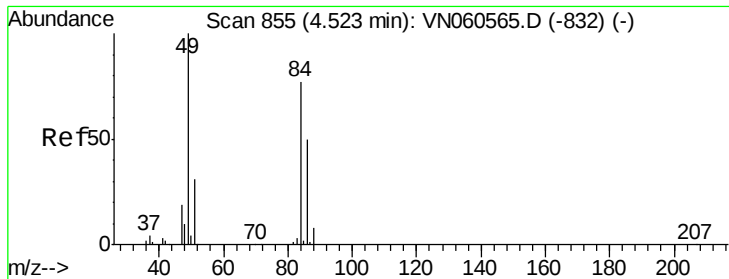
74 2.8 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 2.380 ug/l

RT: 4.53 min Scan# 856

Delta R.T. 0.00 min

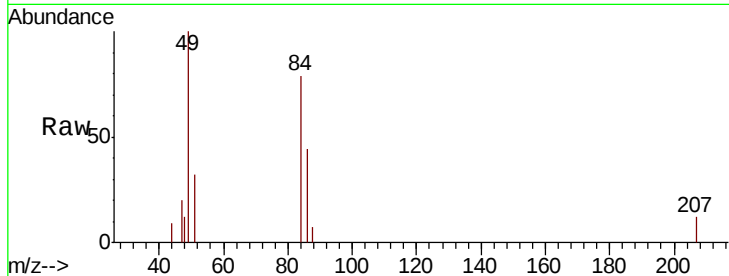
Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 6127

Ion	Ratio	Lower	Upper
84	100		
49	126.9	103.3	154.9
51	40.3	31.6	47.4
86	55.3	52.0	78.0

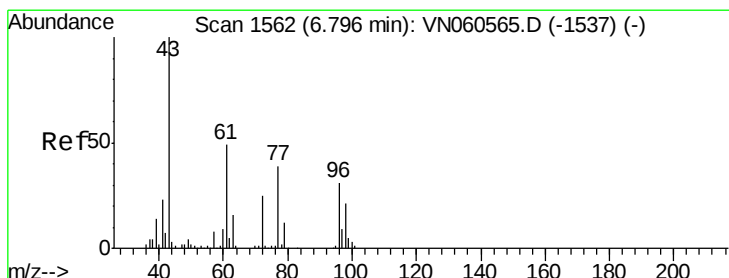
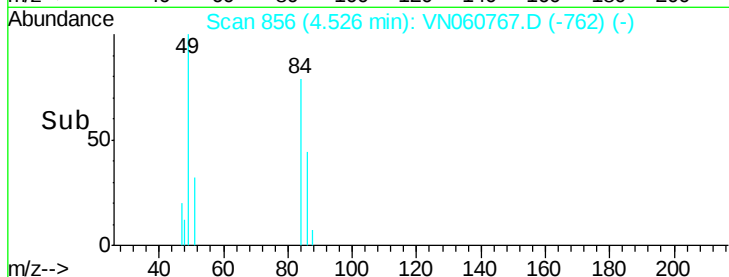


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 1.936 ug/l

RT: 6.80 min Scan# 1563

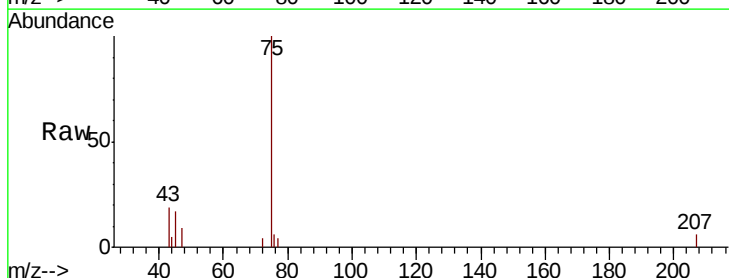
Delta R.T. 0.00 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

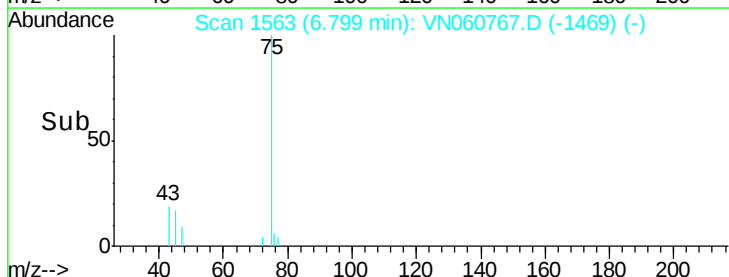
Tgt Ion: 43 Resp: 3278

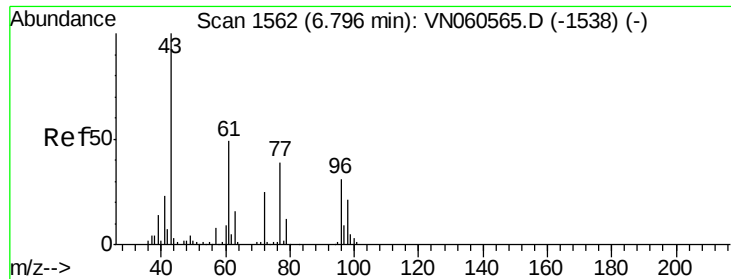
Ion	Ratio	Lower	Upper
43	100		
72	21.1	20.4	30.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

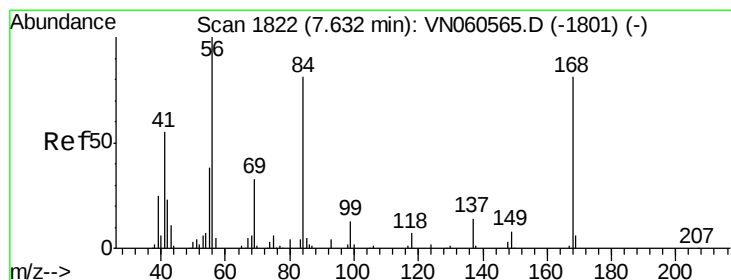
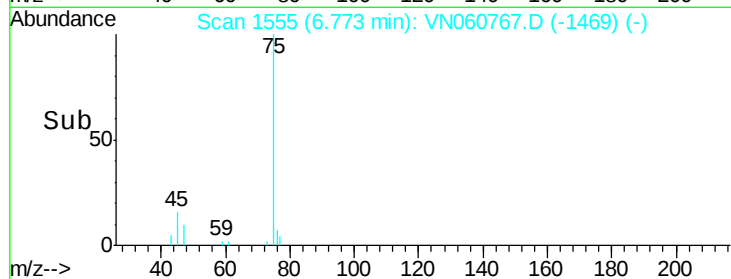
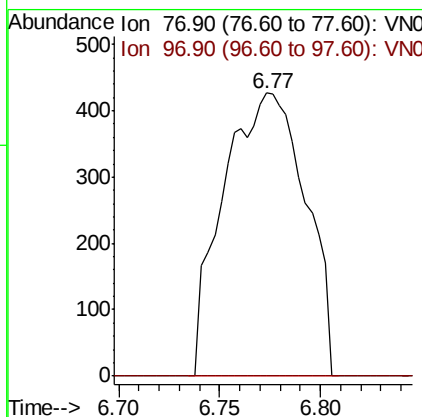
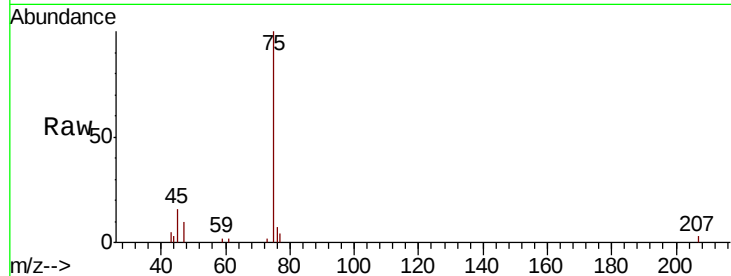




#26
 2,2-Dichloropropane
 Concen: 0.324 ug/l
 RT: 6.77 min Scan# 1555
 Delta R.T. -0.02 min
 Lab File: VN060767.D
 Acq: 30 Mar 2020 13:56

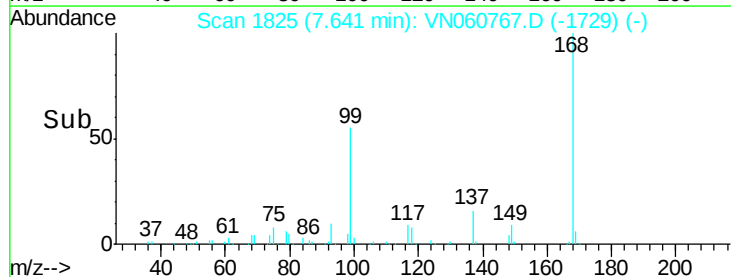
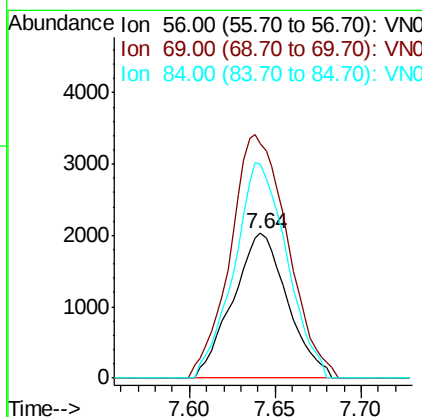
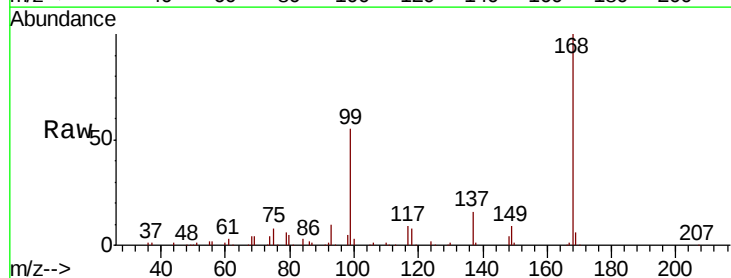
Instrument :
 MSVOA_N
 ClientSampled :

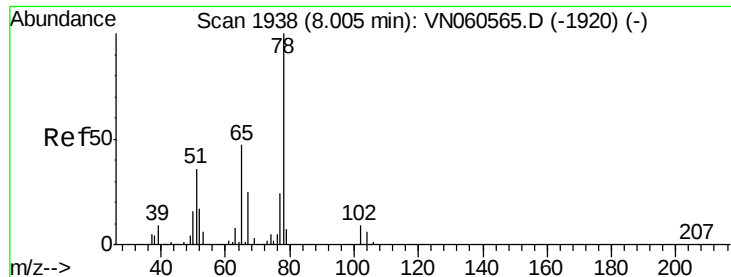
Tot Ion: 77 Resp: 1203
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.4 34.1#



#31
 Cyclohexane
 Concen: 0.946 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. 0.01 min
 Lab File: VN060767.D
 Acq: 30 Mar 2020 13:56

Tgt Ion: 56 Resp: 4499
 Ion Ratio Lower Upper
 56 100
 69 161.8 26.6 40.0#
 84 147.8 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 46.554 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

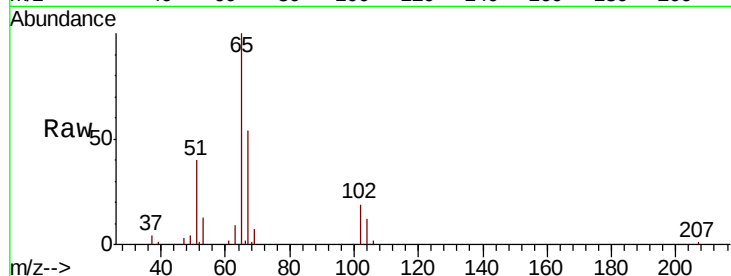
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 65 Resp: 137525

Ion Ratio Lower Upper

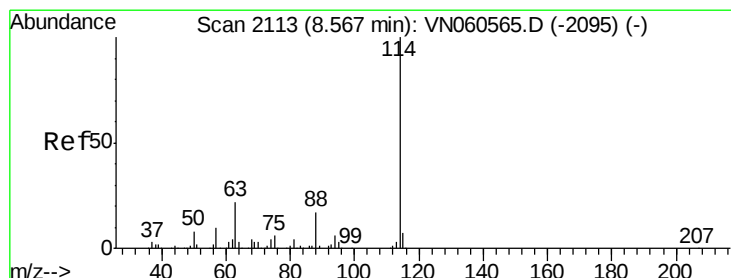
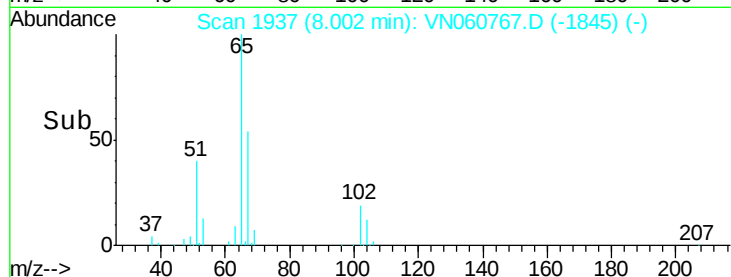
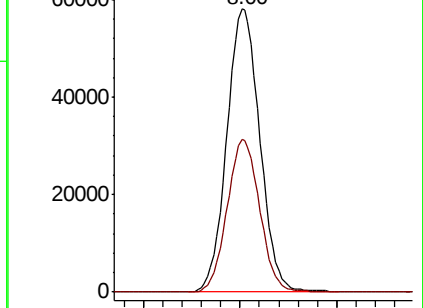
65 100

67 53.2 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060767.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060767.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: VN060767.D

Acq: 30 Mar 2020 13:56

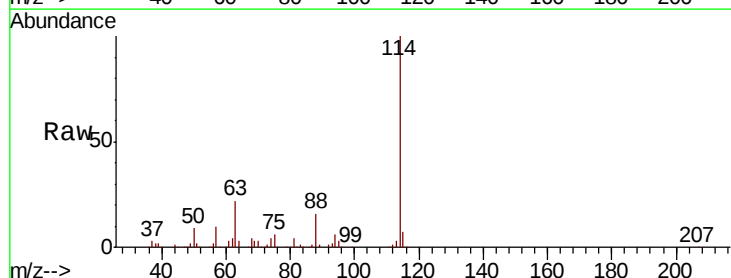
Tgt Ion: 114 Resp: 357990

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

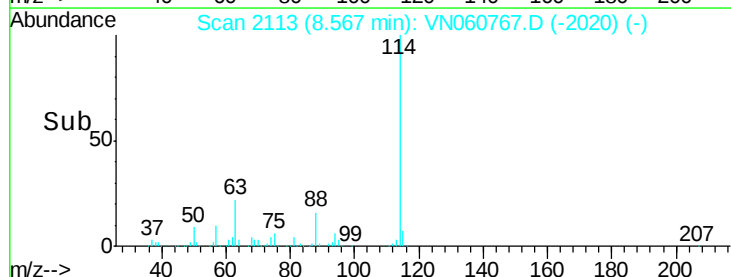
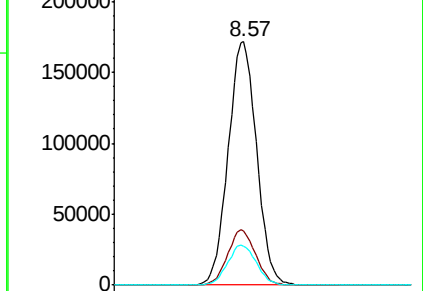
88 16.1 0.0 33.0

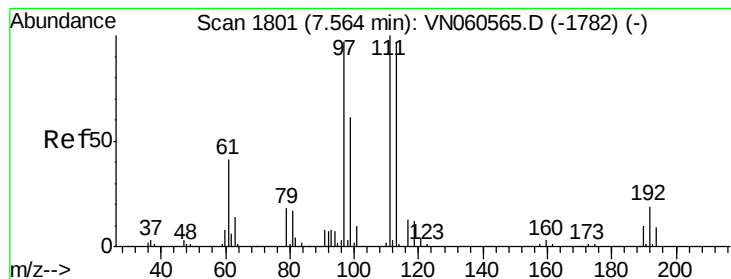


Abundance Ion 113.90 (113.60 to 114.60): VN060767.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN060767.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN060767.D (-2020) (-)





#35

Dibromofluoromethane

Concen: 48.555 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

Instrument :
MSVOA_N
ClientSampled :

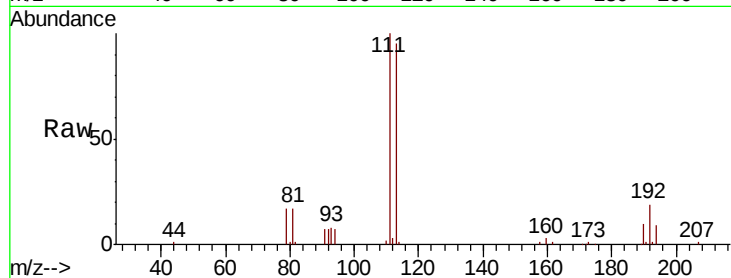
Tot Ion:113 Resp: 105104

Ion Ratio Lower Upper

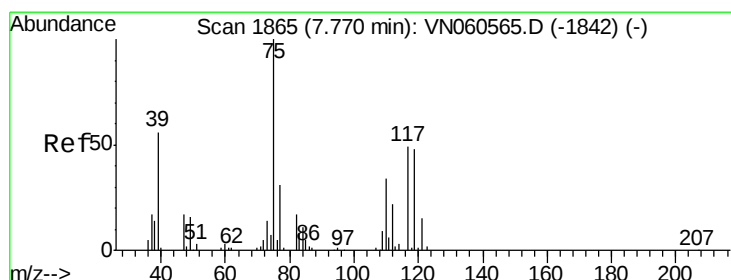
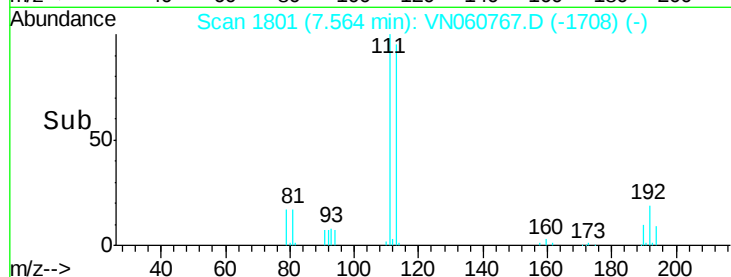
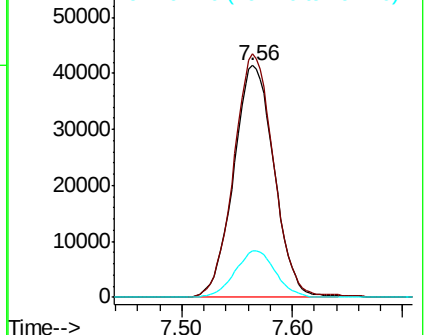
113 100

111 103.2 82.9 124.3

192 20.0 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: 4.825 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

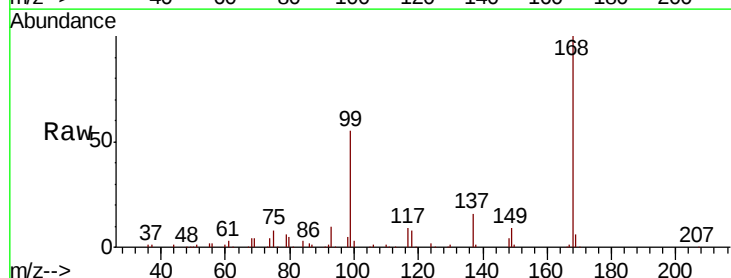
Tgt Ion: 75 Resp: 16726

Ion Ratio Lower Upper

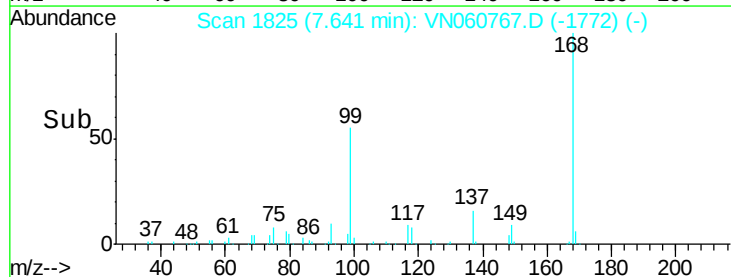
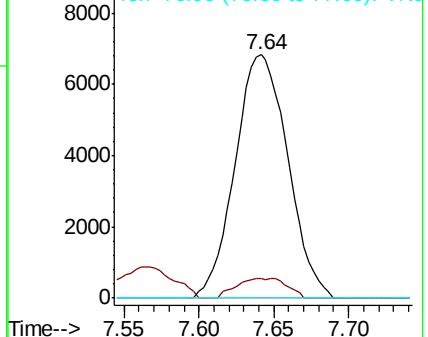
75 100

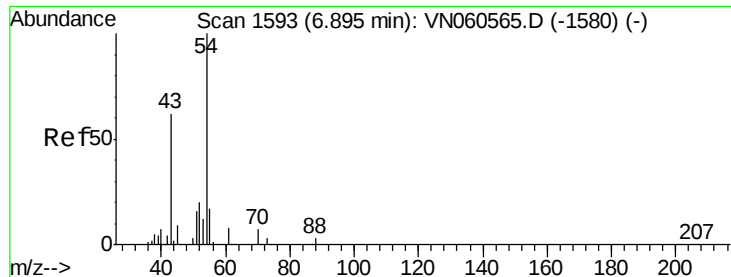
110 7.8 16.9 50.6#

77 0.0 24.6 36.8#



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

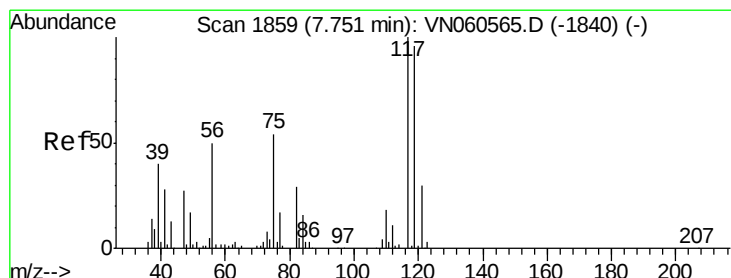
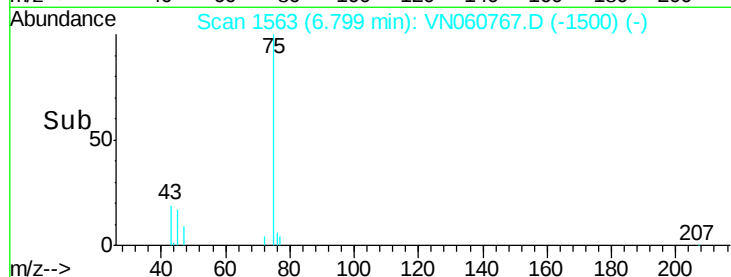
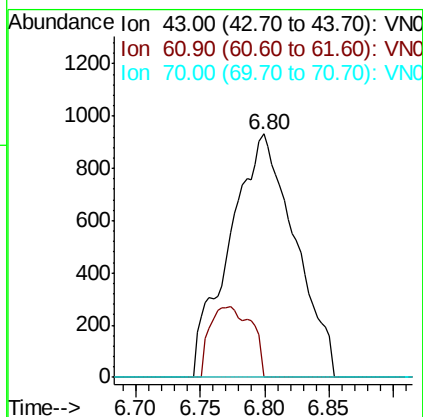
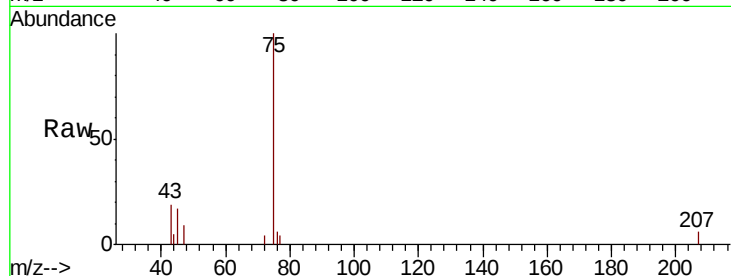




#37
Ethyl Acetate
Concen: 0.875 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. -0.10 min
Lab File: VN060767.D
Acq: 30 Mar 2020 13:56

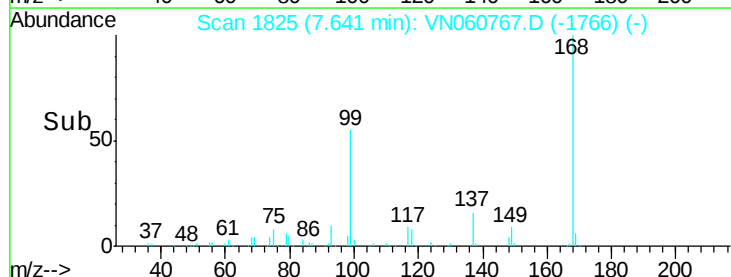
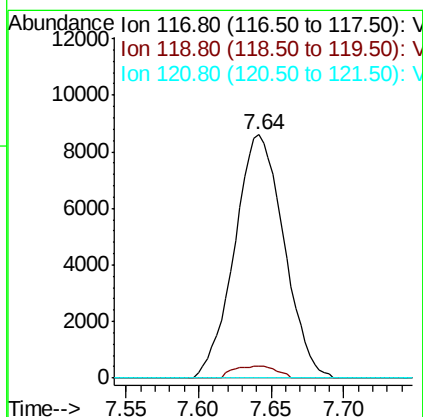
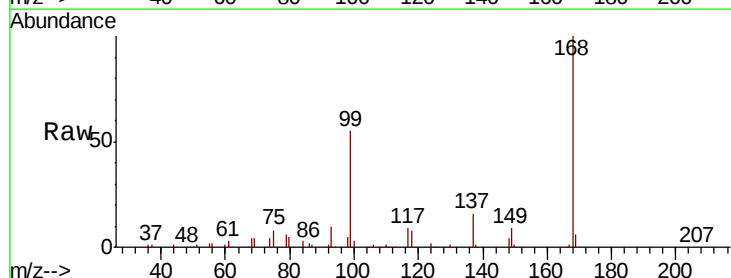
Instrument :
MSVOA_N
ClientSampleId :

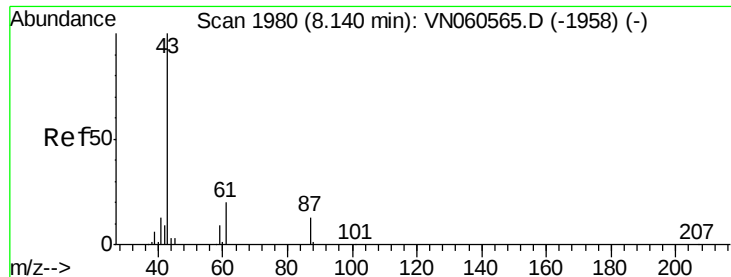
Tot Ion: 43 Resp: 3278
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.553 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060767.D
Acq: 30 Mar 2020 13:56

Tgt Ion: 117 Resp: 20359
Ion Ratio Lower Upper
117 100
119 4.9 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 10.959 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

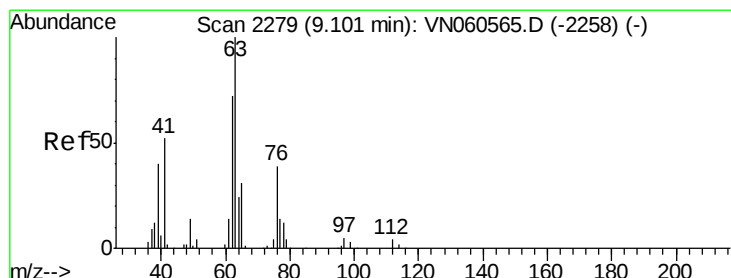
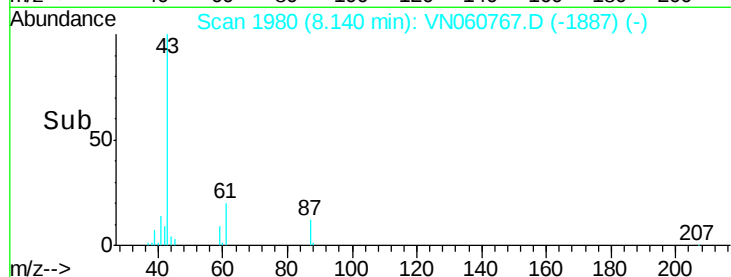
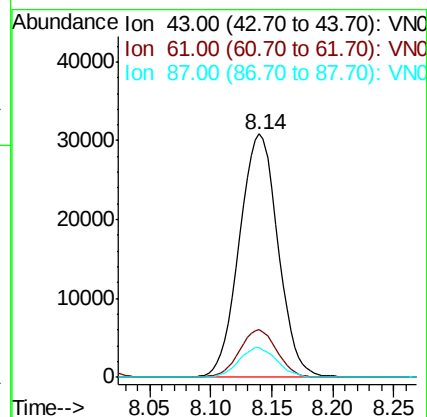
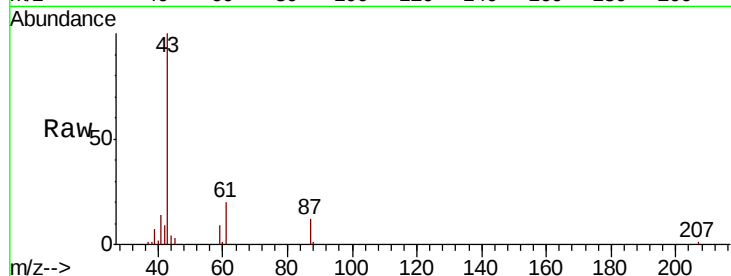
Tot Ion: 43 Resp: 67693

Ion Ratio Lower Upper

43 100

61 19.0 20.7 31.1#

87 11.9 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.455 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060767.D

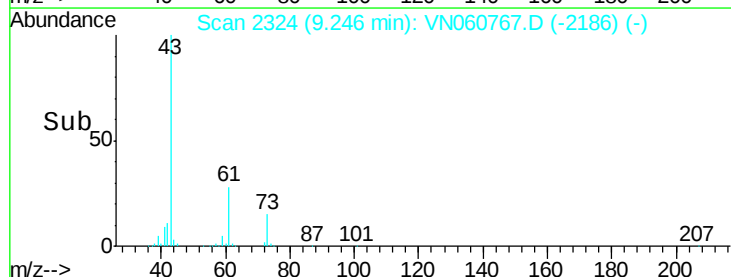
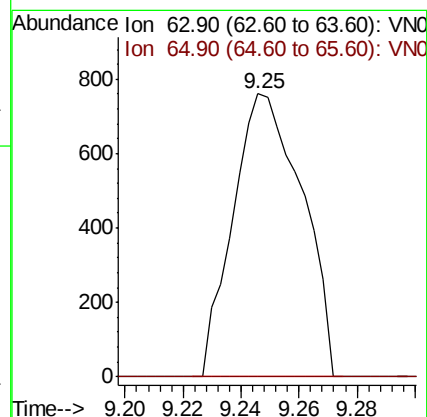
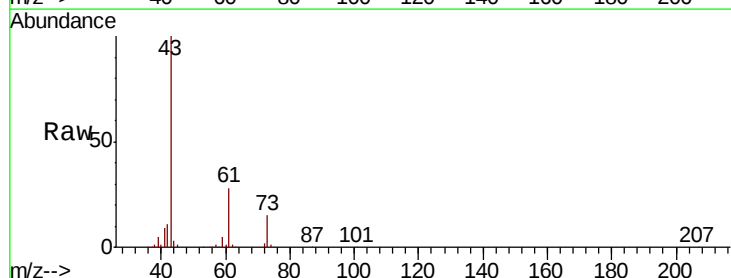
Acq: 30 Mar 2020 13:56

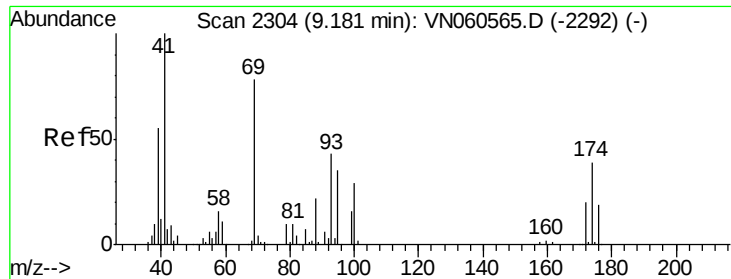
Tgt Ion: 63 Resp: 1257

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

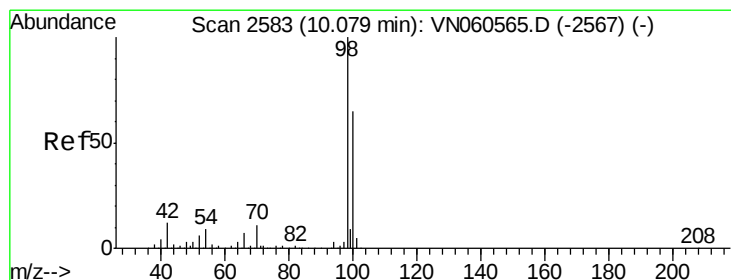
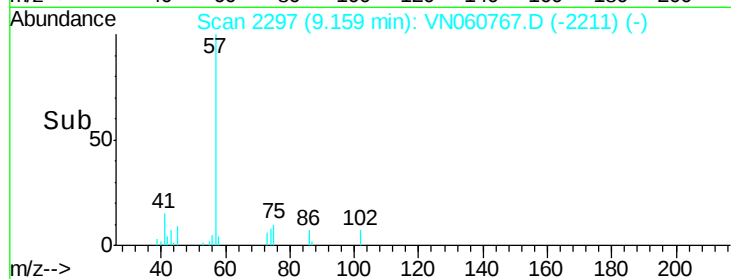
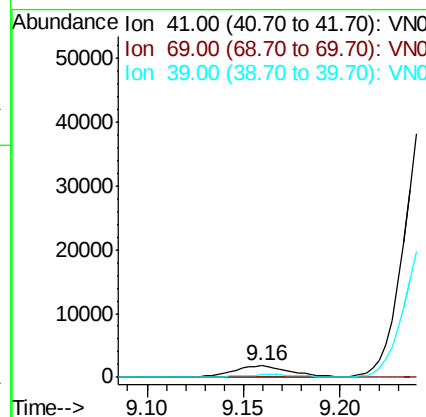
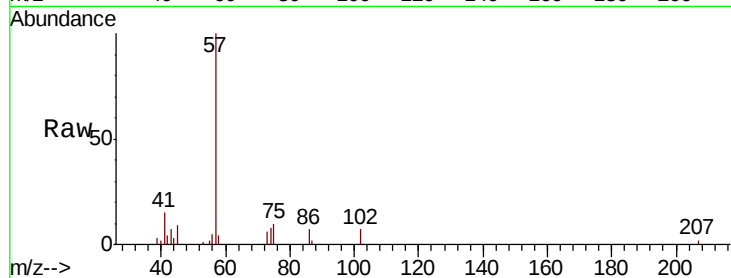




#48
Methvl methacrylate
Concen: 1.354 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060767.D
Acq: 30 Mar 2020 13:56

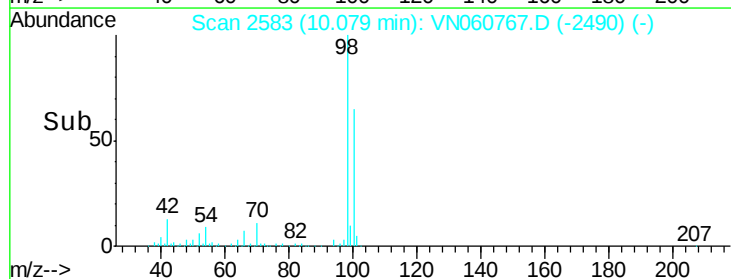
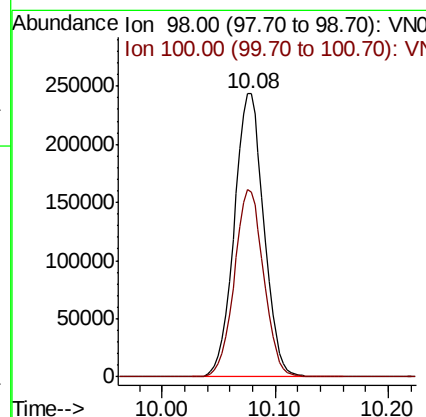
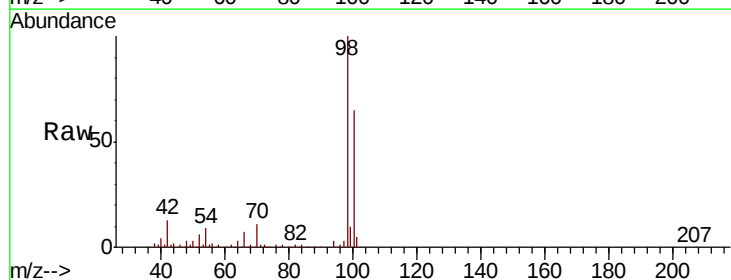
Instrument :
MSVOA_N
ClientSampled :

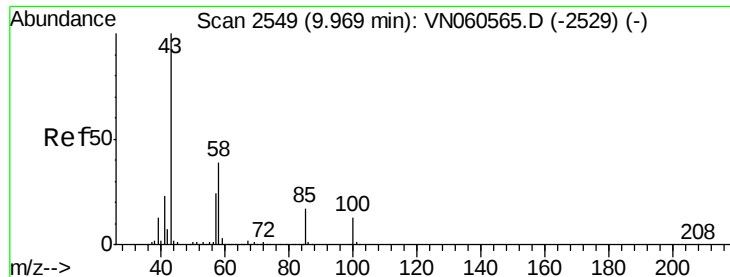
Tot Ion: 41 Resp: 3723
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.132 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060767.D
Acq: 30 Mar 2020 13:56

Tgt Ion: 98 Resp: 443255
Ion Ratio Lower Upper
98 100
100 65.4 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.454 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

Instrument :

MSVOA_N

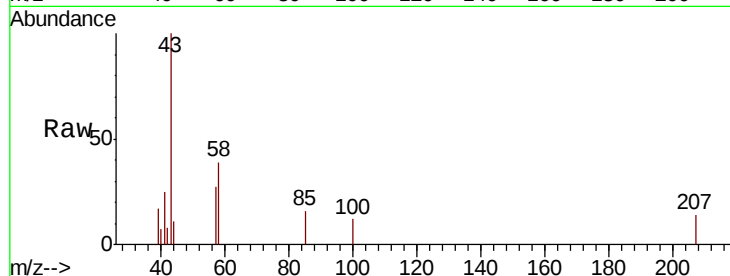
ClientSampled :

Tot Ion: 43 Resp: 5111

Ion Ratio Lower Upper

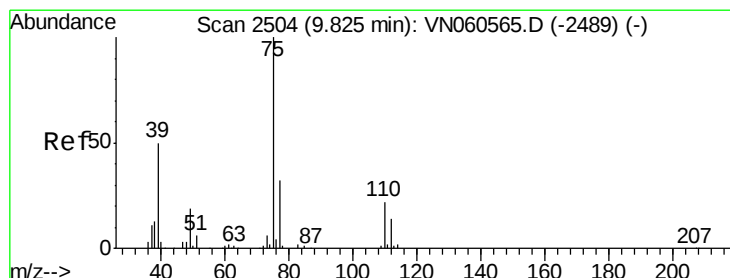
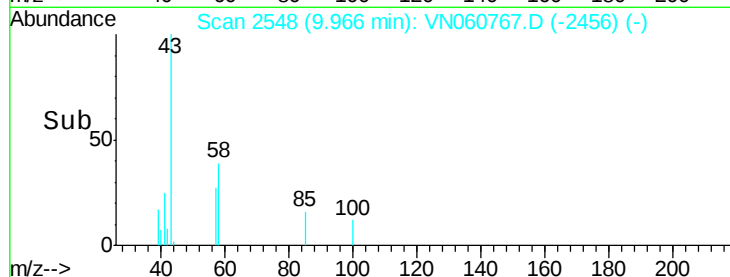
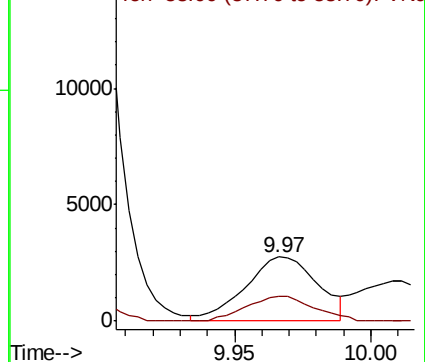
43 100

58 36.4 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.424 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

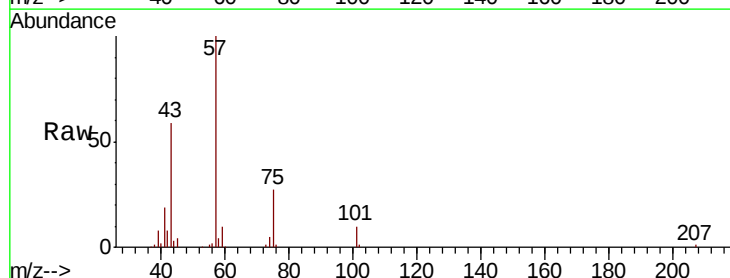
Tgt Ion: 75 Resp: 28082

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

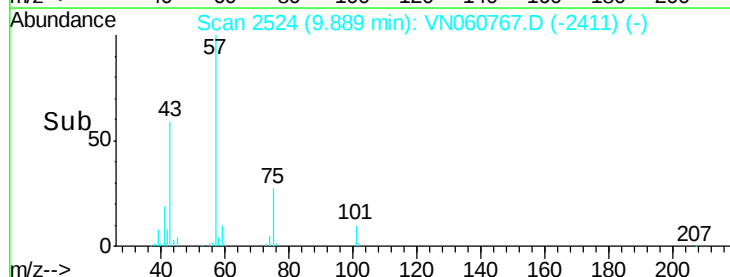
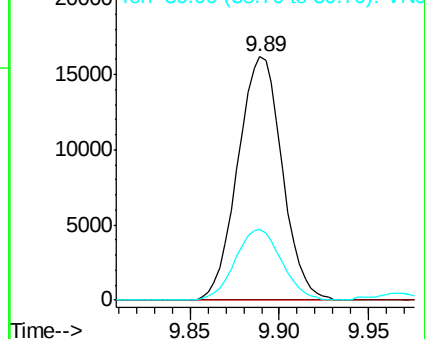
39 29.0 40.2 60.4#

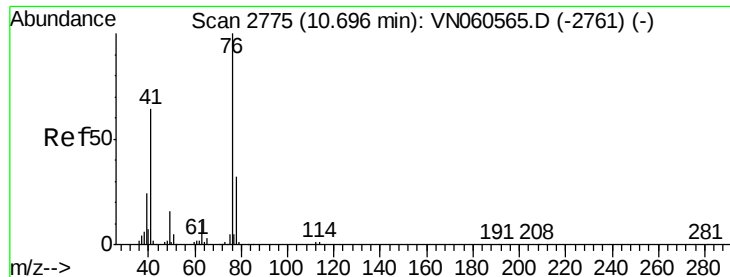


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

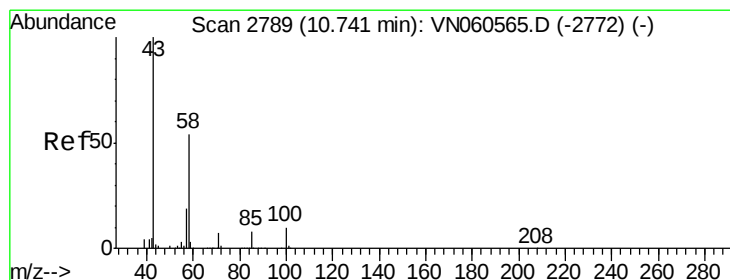
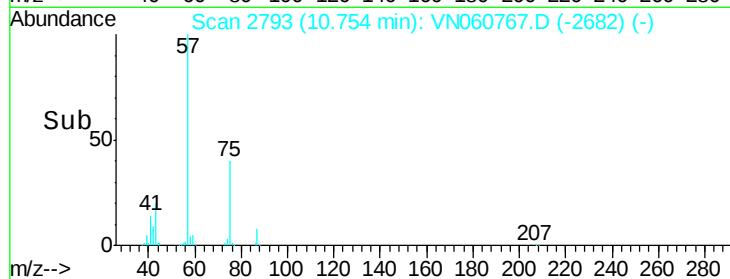
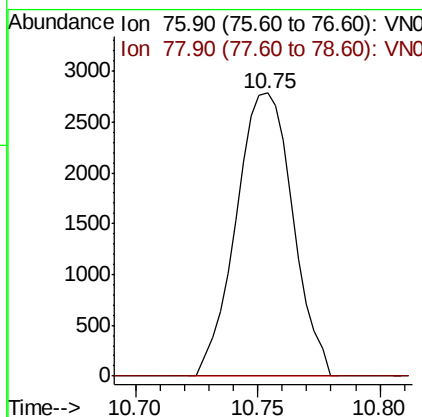
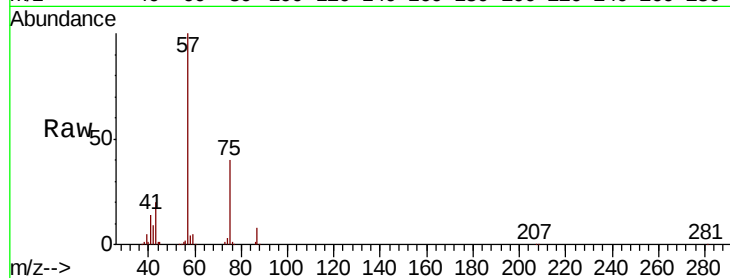




#57
 1,3-Dichloropropane
 Concen: 1.065 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060767.D
 Acq: 30 Mar 2020 13:56

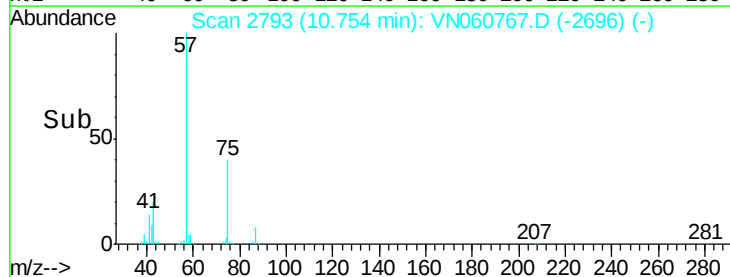
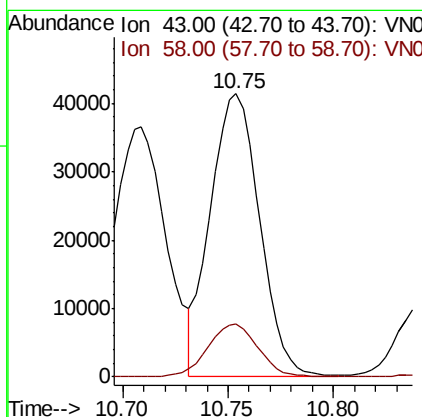
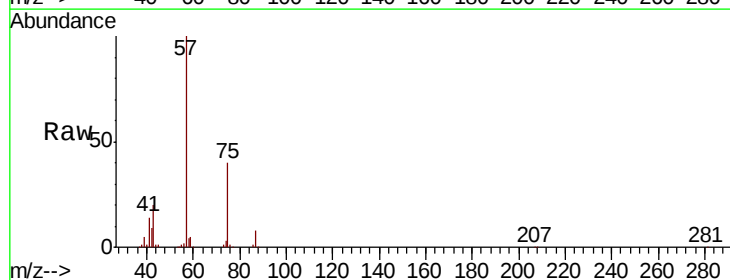
Instrument :
 MSVOA_N
 ClientSampleId :

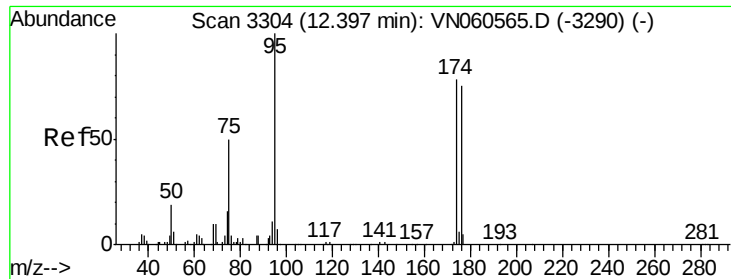
Tot Ion: 76 Resp: 4493
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 26.616 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060767.D
 Acq: 30 Mar 2020 13:56

Tgt Ion: 43 Resp: 67395
 Ion Ratio Lower Upper
 43 100
 58 19.0 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 50.561 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampled :

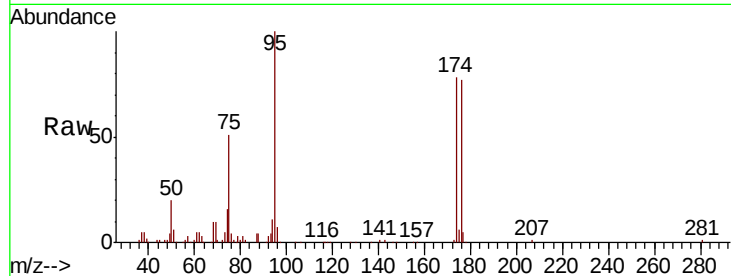
Tot Ion: 95 Resp: 163838

Ion Ratio Lower Upper

95 100

174 77.9 0.0 157.6

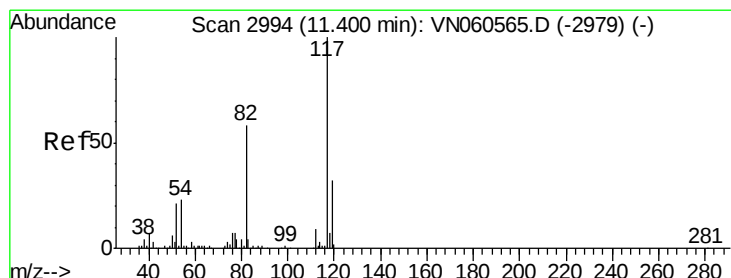
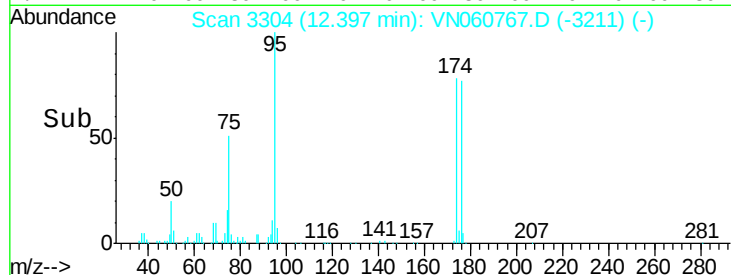
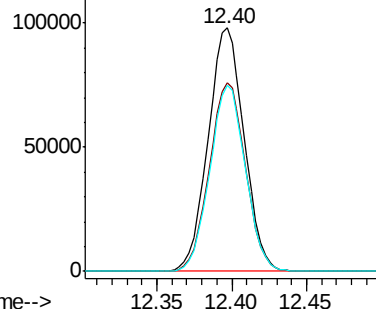
176 75.5 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060767.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060767.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060767.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

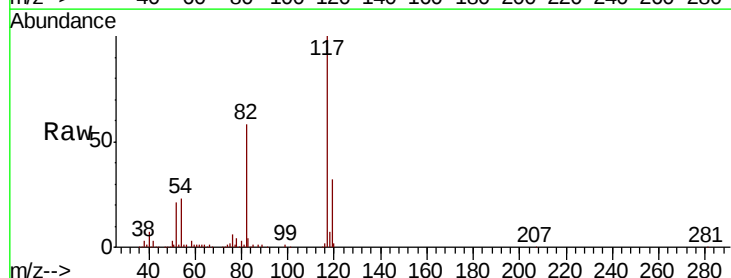
Tgt Ion: 117 Resp: 335612

Ion Ratio Lower Upper

117 100

82 58.4 46.7 70.1

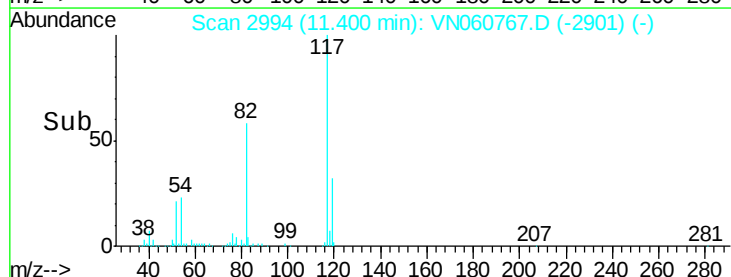
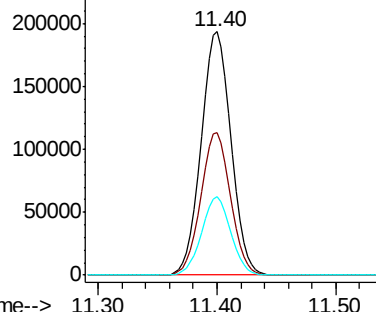
119 32.1 25.5 38.3

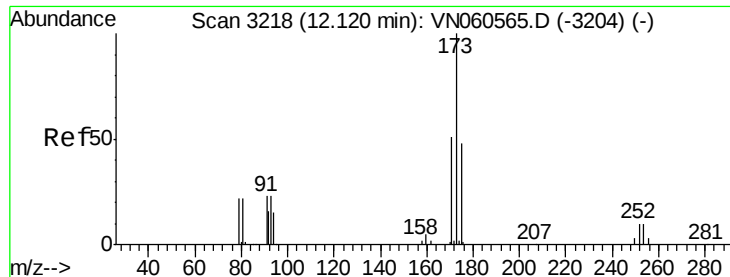


Abundance Ion 116.90 (116.60 to 117.60): VN060767.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060767.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060767.D (-2979) (-)

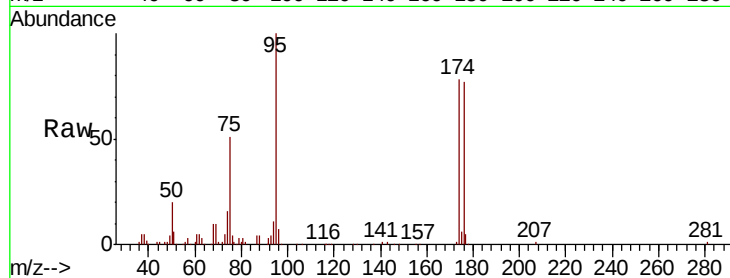




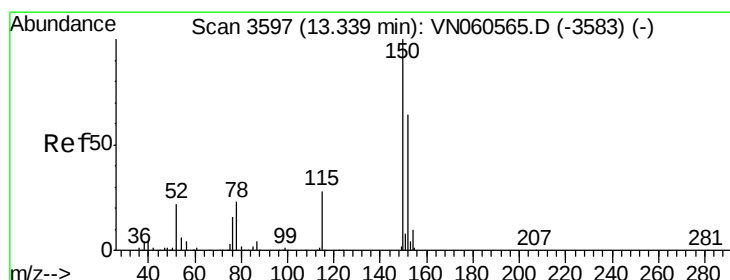
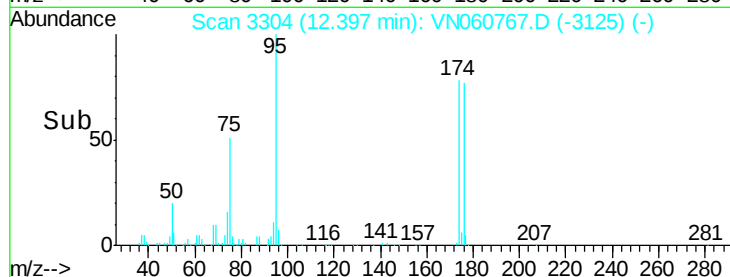
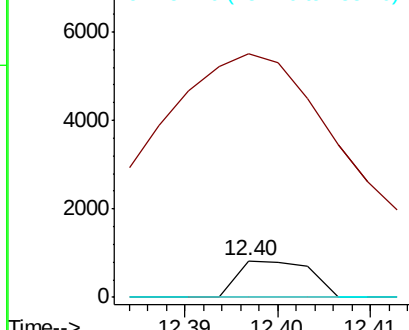
#71
Bromoform
Concen: 1.896 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN060767.D
Acq: 30 Mar 2020 13:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:173 Resp: 446
Ion Ratio Lower Upper
173 100
175 1733.6 24.1 72.4#
254 0.0 0.0 0.0

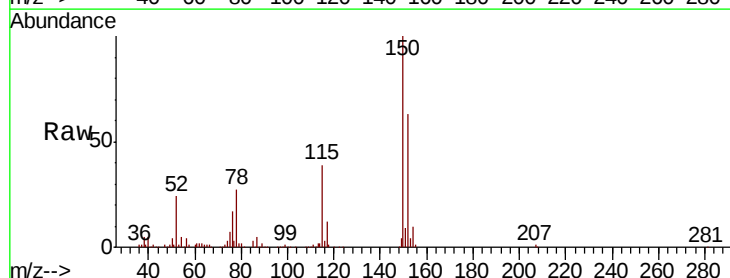


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

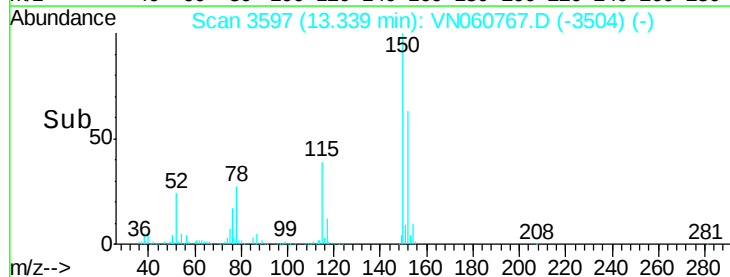
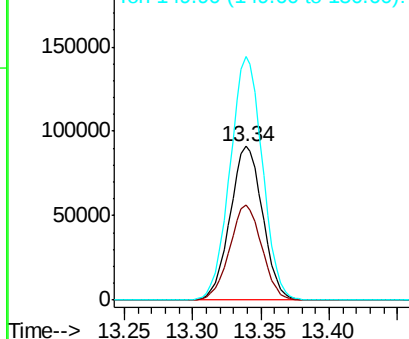


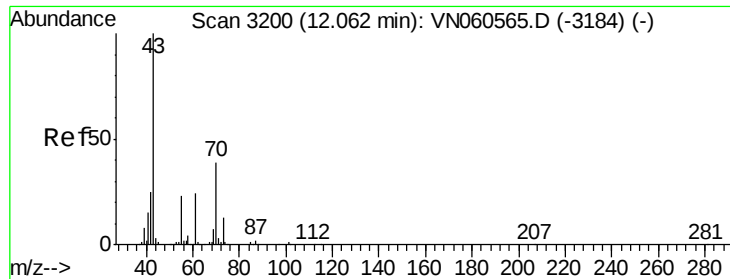
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060767.D
Acq: 30 Mar 2020 13:56

Tgt Ion:152 Resp: 150777
Ion Ratio Lower Upper
152 100
115 61.1 30.2 90.6
150 157.4 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-amyl acetate

Concen: 0.875 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 4573

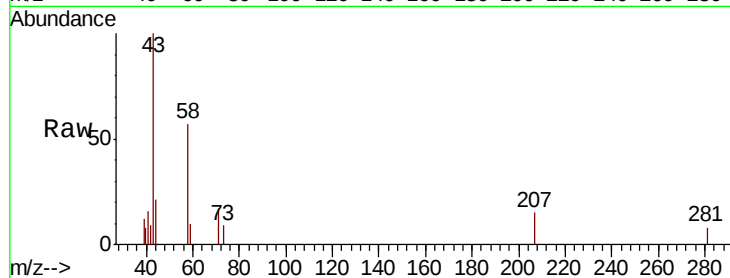
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

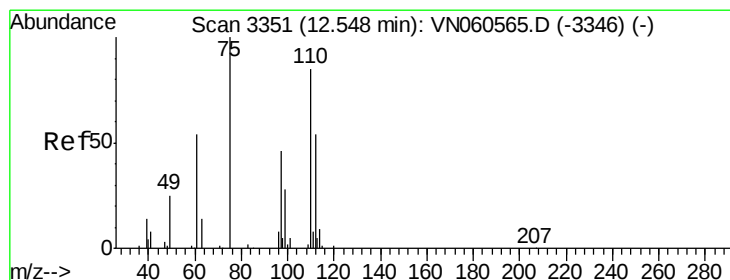
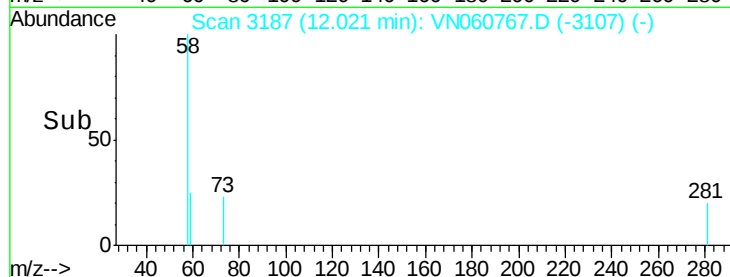
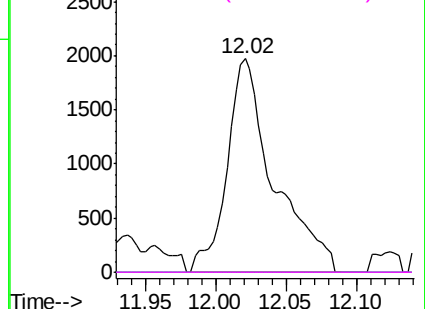


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.481 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060767.D

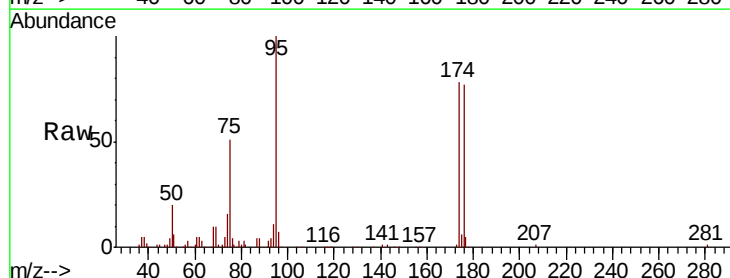
Acq: 30 Mar 2020 13:56

Tgt Ion: 75 Resp: 82902

Ion Ratio Lower Upper

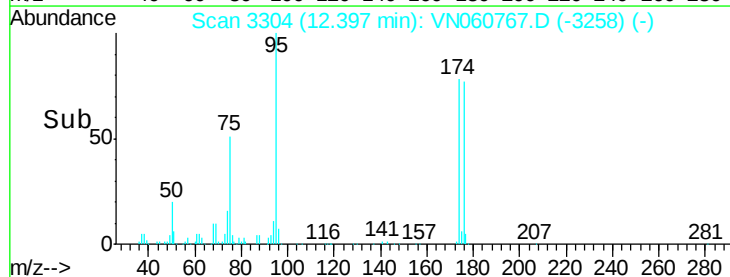
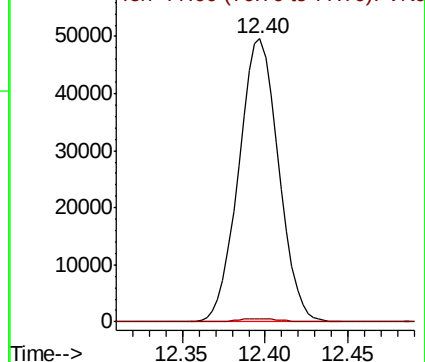
75 100

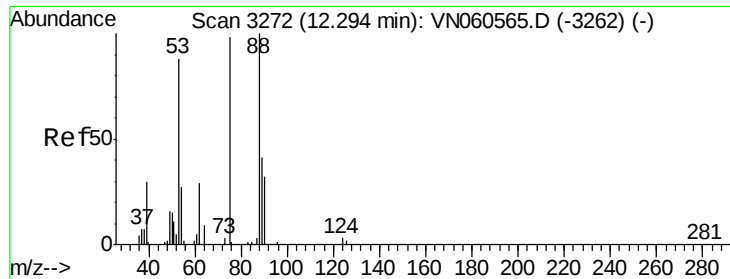
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.443 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060767.D

Acq: 30 Mar 2020 13:56

Instrument :

MSVOA_N

ClientSampleId :

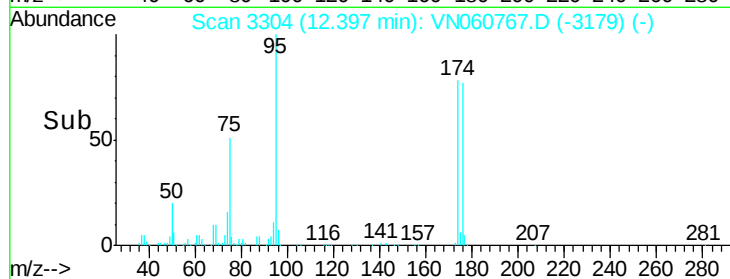
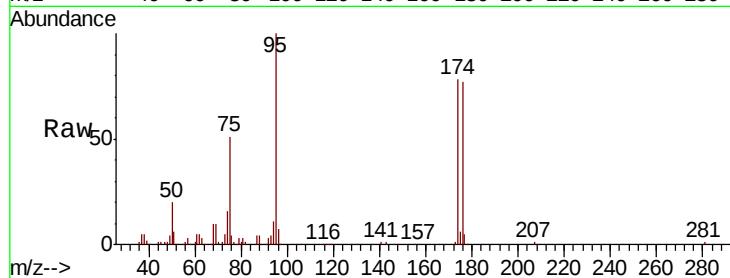
Tot Ion: 75 Resp: 82902

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

