

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN061820\
 Data File : VN061939.D
 Acq On : 19 Jun 2020 8:06
 Operator : JC/MD
 Sample : L2812-10
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 55 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-061720

Quant Time: Jun 19 11:48:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	135236	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	253419	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	244765	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	91836	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	94641	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
35) Dibromofluoromethane	7.55	113	81096	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
50) Toluene-d8	10.06	98	323121	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
62) 4-Bromofluorobenzene	12.38	95	101583	46.46	ug/l	0.00
Spiked Amount			Recovery	=	92.92%	

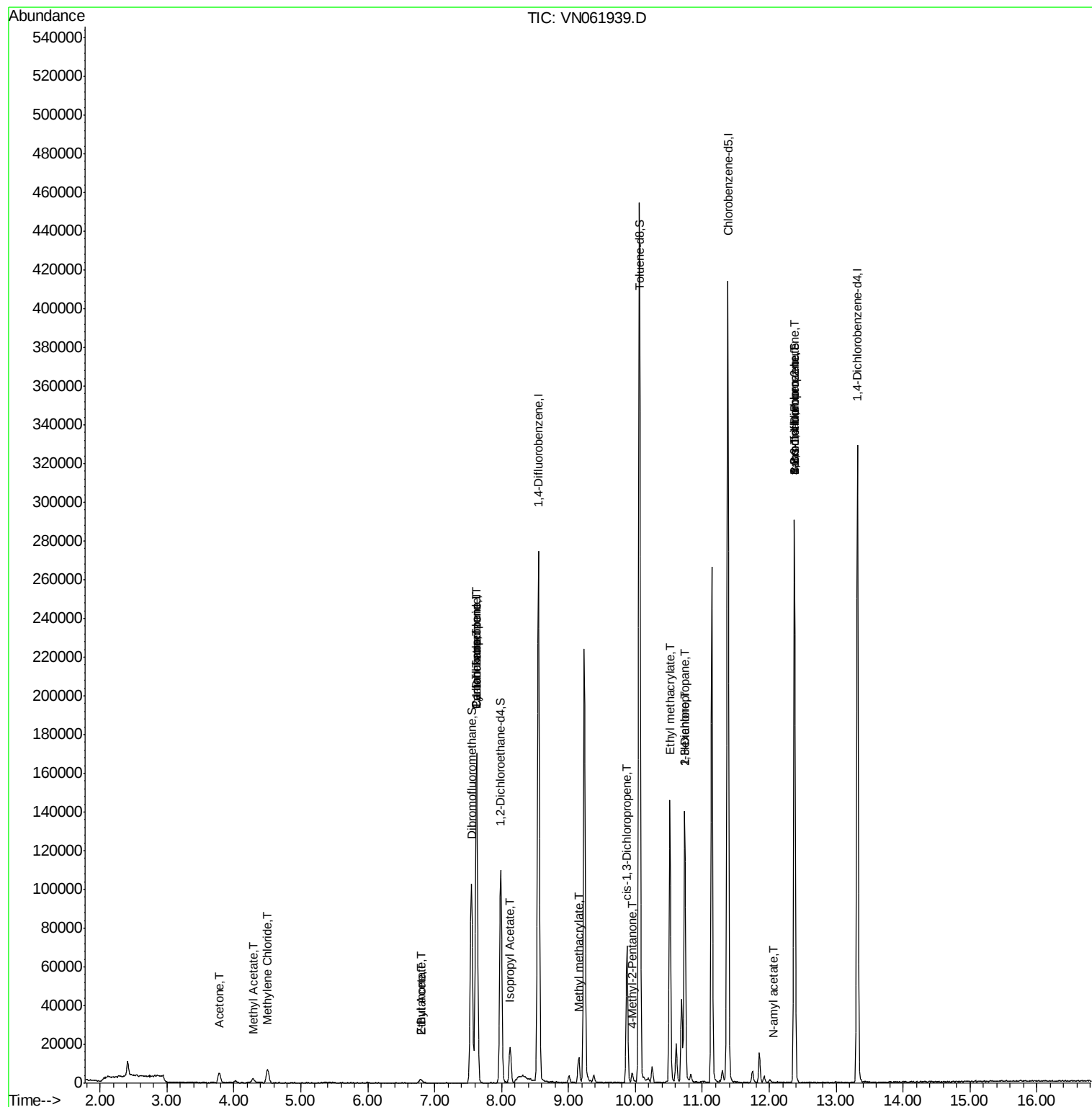
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	9393	17.533	ug/l	97
18) Methyl Acetate	4.28	43	4005	2.597	ug/l	91
20) Methylene Chloride	4.50	84	5816	3.332	ug/l	97
25) 2-Butanone	6.79	43	3154	4.035	ug/l	95
31) Cyclohexane	7.63	56	2892	1.210	ug/l #	17
36) 1,1-Dichloropropene	7.63	75	11094	4.800	ug/l #	48
37) Ethyl Acetate	6.79	43	3154	1.747	ug/l #	65
38) Carbon Tetrachloride	7.63	117	13748	6.006	ug/l #	17
43) Isopropyl Acetate	8.13	43	20731	6.815	ug/l #	88
48) Methyl methacrylate	9.15	41	1283	0.927	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	3221	1.792	ug/l	88
54) cis-1,3-Dichloropropene	9.88	75	13448	4.701	ug/l #	68
56) Ethyl methacrylate	10.51	69	686	3.147	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	1599	0.546	ug/l #	42
59) 2-Hexanone	10.74	43	18582	25.652	ug/l #	52
71) Bromoform	12.38	173	998	0.760	ug/l #	1
74) N-amyl acetate	12.06	43	173	3.133	ug/l #	38
76) 1,2,3-Trichloropropane	12.37	75	50417	27.963	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	50417	76.268	ug/l #	14

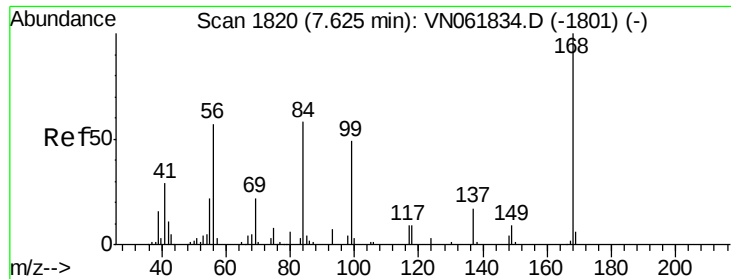
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

Instrument :

MSVOA_N

ClientSampleId :

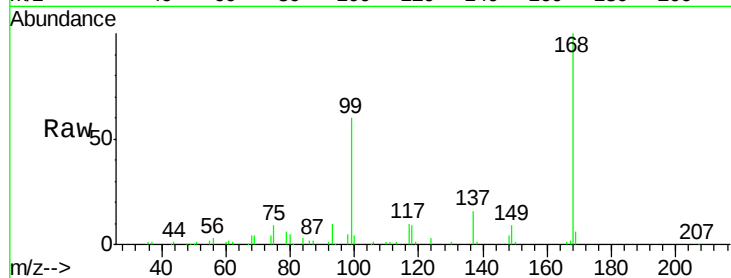
OK-03-061720

Tgt Ion:168 Resp: 135236

Ion Ratio Lower Upper

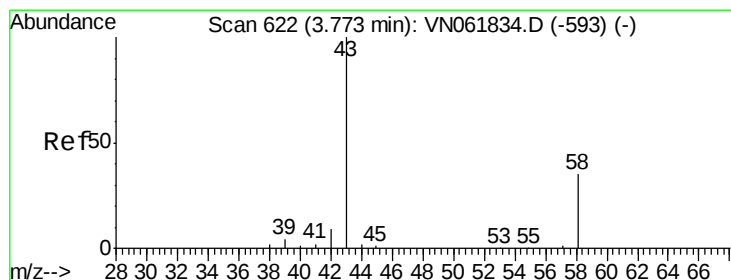
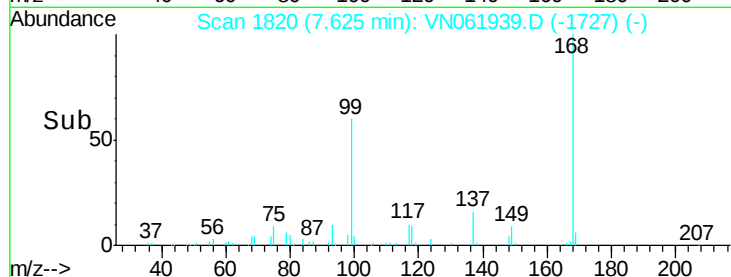
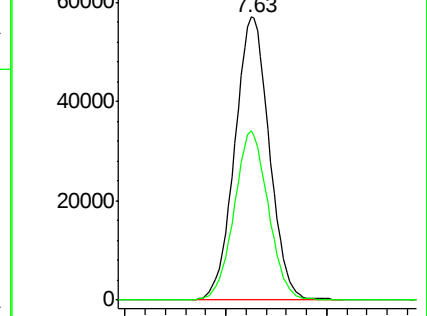
168 100

99 59.7 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 17.533 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061939.D

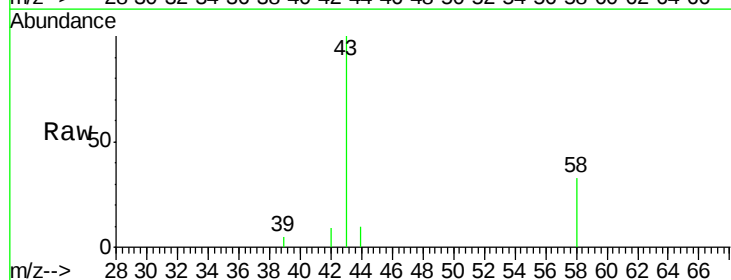
Acq: 19 Jun 2020 8:06

Tgt Ion: 43 Resp: 9393

Ion Ratio Lower Upper

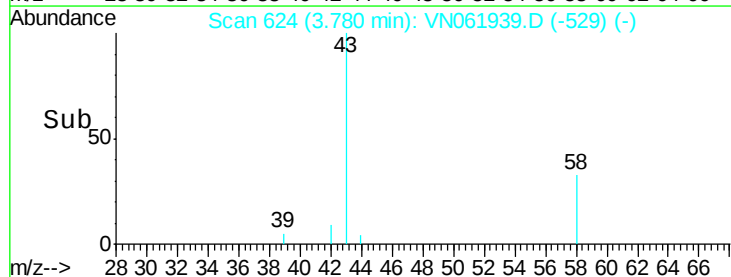
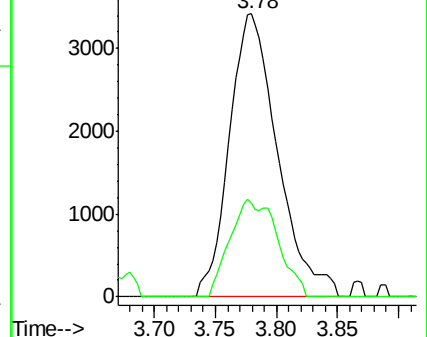
43 100

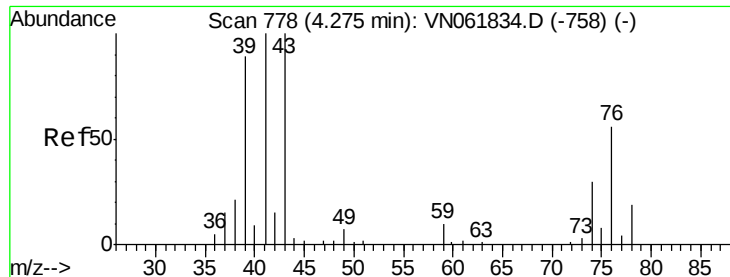
58 33.0 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

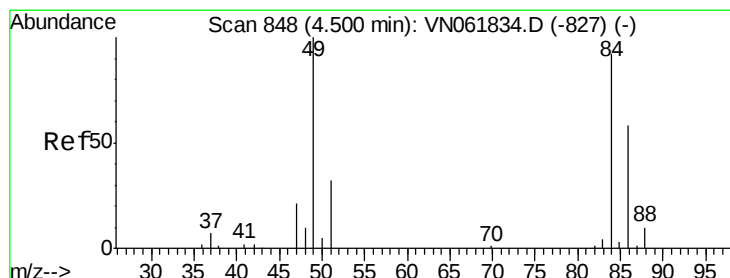
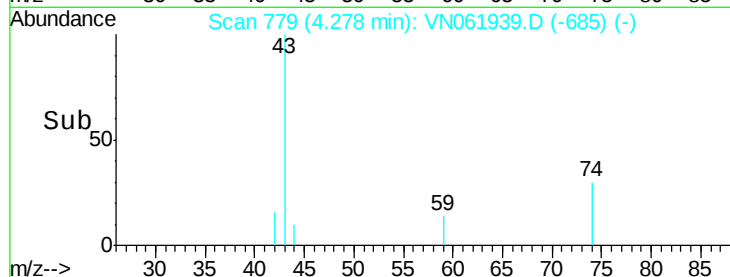
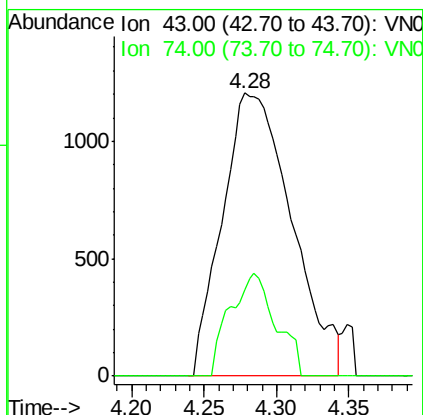
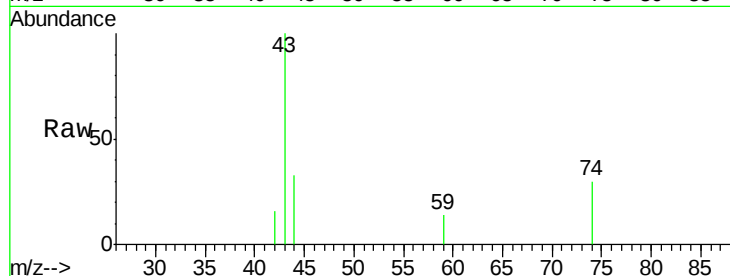




#18
Methyl Acetate
Concen: 2.597 ug/l
RT: 4.28 min Scan# 779
Delta R.T. 0.00 min
Lab File: VN061939.D
Acq: 19 Jun 2020 8:06

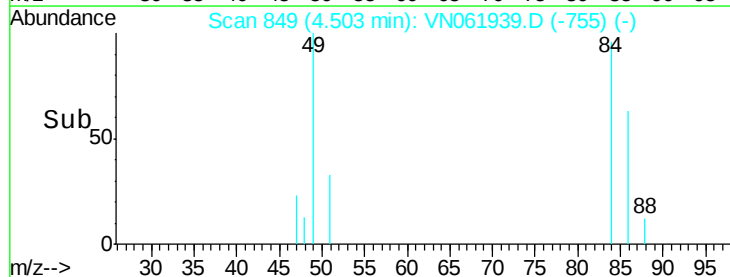
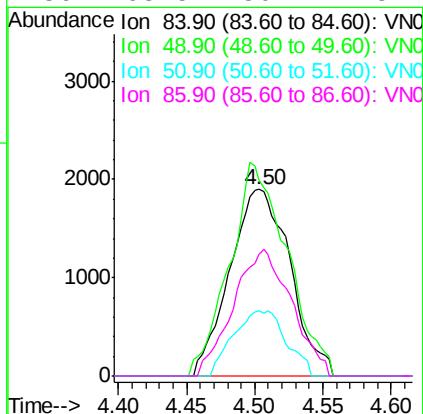
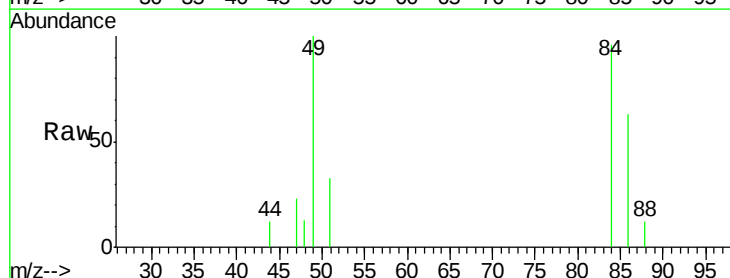
Instrument :
MSVOA_N
ClientSampled :
OK-03-061720

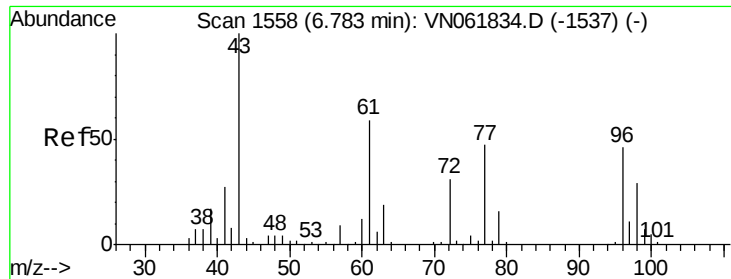
Tgt Ion: 43 Resp: 4005
Ion Ratio Lower Upper
43 100
74 23.9 23.0 34.4



#20
Methylene Chloride
Concen: 3.332 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN061939.D
Acq: 19 Jun 2020 8:06

Tgt Ion: 84 Resp: 5816
Ion Ratio Lower Upper
84 100
49 104.7 87.0 130.4
51 34.7 27.8 41.6
86 65.5 50.2 75.2





#25

2-Butanone

Concen: 4.035 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

Instrument :

MSVOA_N

ClientSampleId :

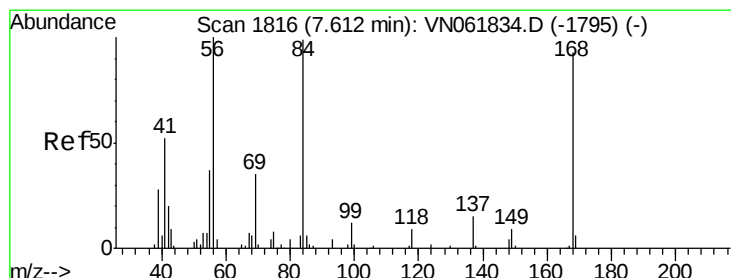
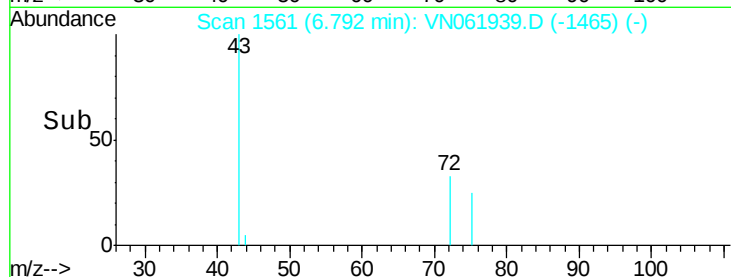
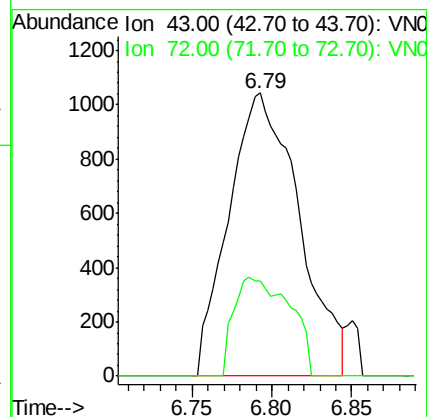
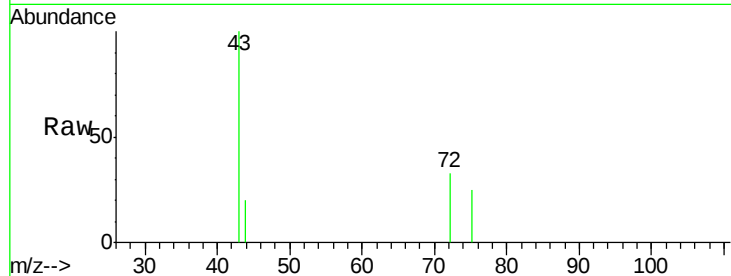
OK-03-061720

Tgt Ion: 43 Resp: 3154

Ion Ratio Lower Upper

43 100

72 33.5 24.6 37.0



#31

Cyclohexane

Concen: 1.210 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

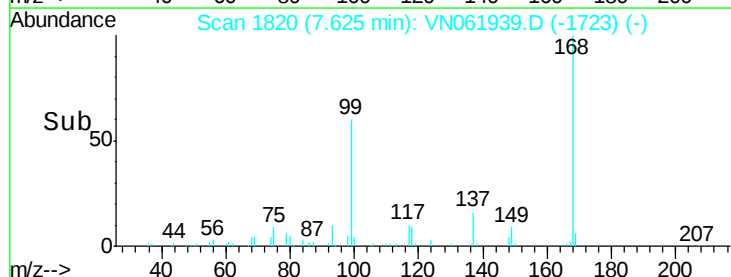
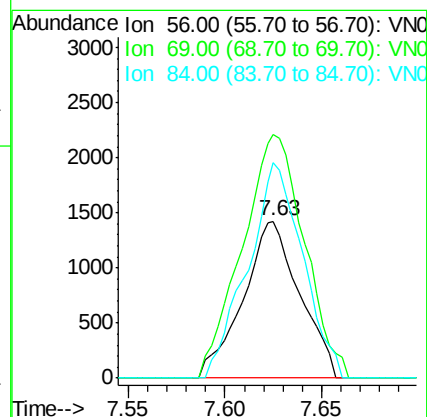
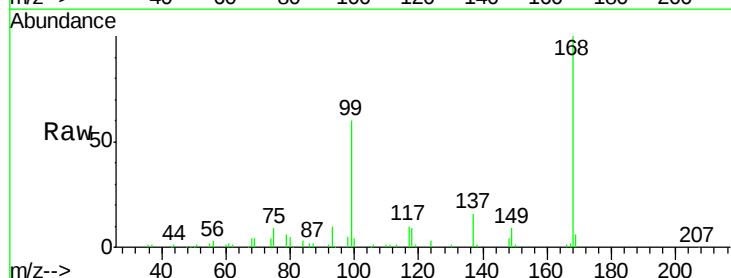
Tgt Ion: 56 Resp: 2892

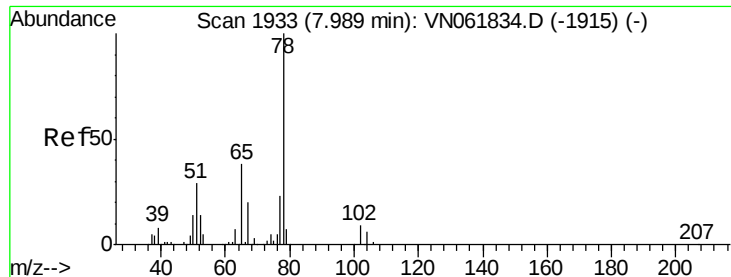
Ion Ratio Lower Upper

56 100

69 154.9 27.7 41.5#

84 137.4 79.1 118.7#

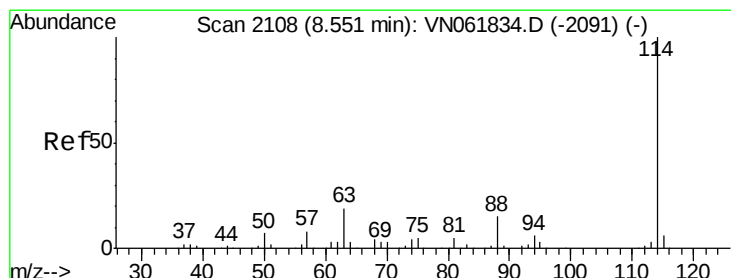
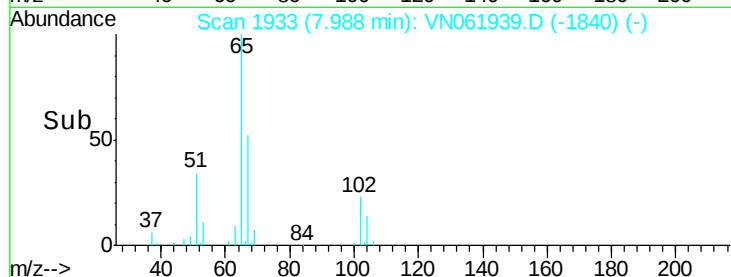
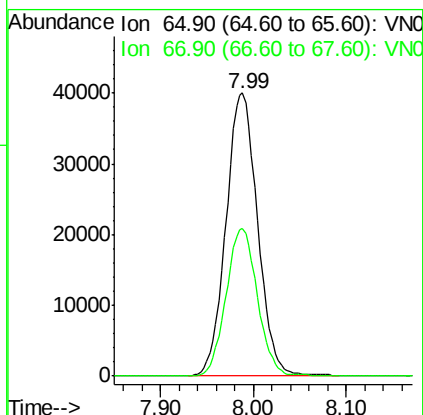
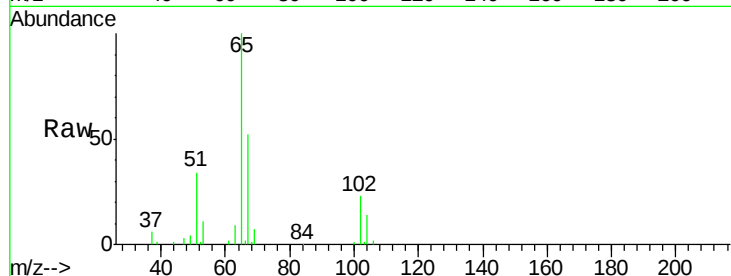




#33
 1,2-Dichloroethane-d4
 Concen: 52.181 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061939.D
 Acq: 19 Jun 2020 8:06

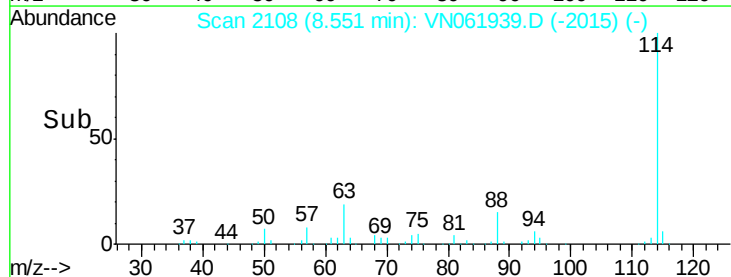
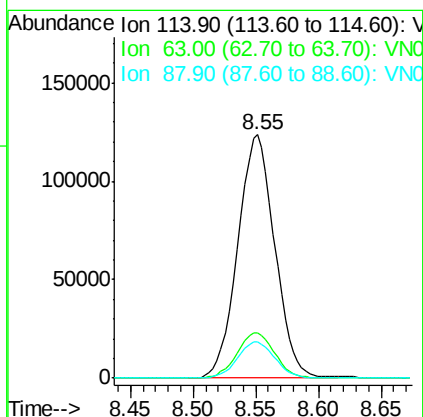
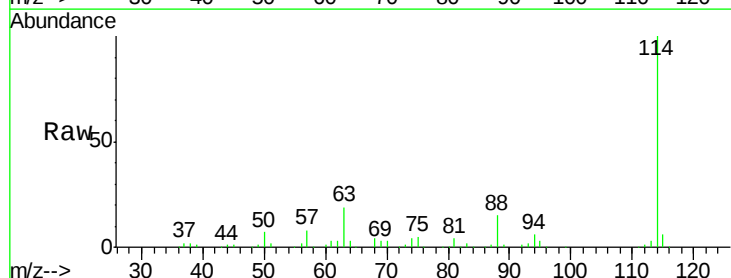
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-061720

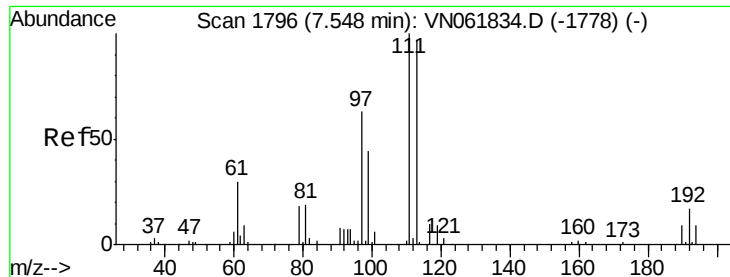
Tgt Ion: 65 Resp: 94641
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061939.D
 Acq: 19 Jun 2020 8:06

Tgt Ion: 114 Resp: 253419
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 37.6
 88 14.7 0.0 31.0

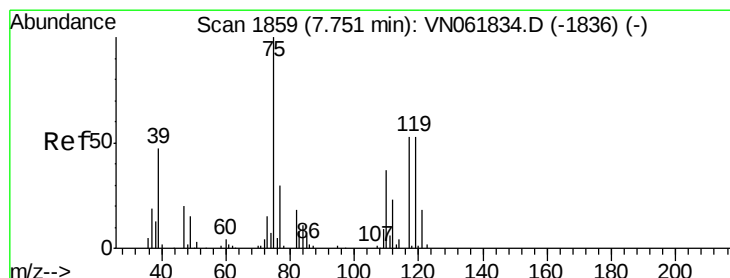
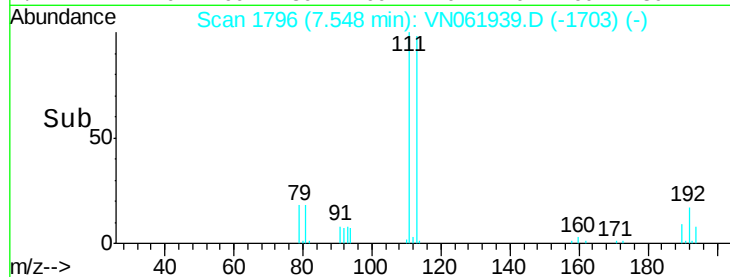
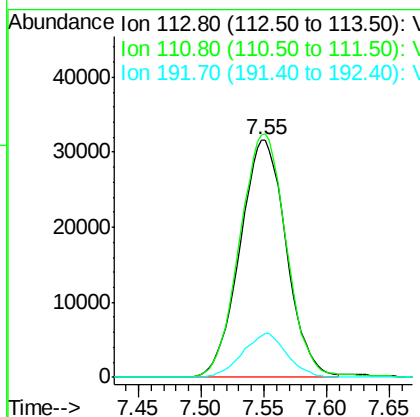
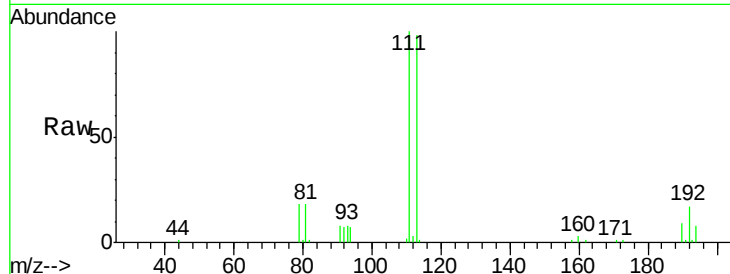




#35
 Dibromofluoromethane
 Concen: 50.021 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061939.D
 Acq: 19 Jun 2020 8:06

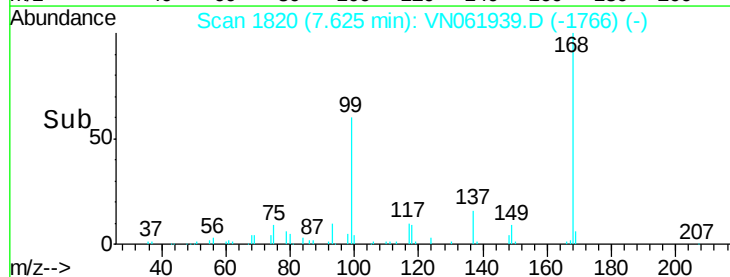
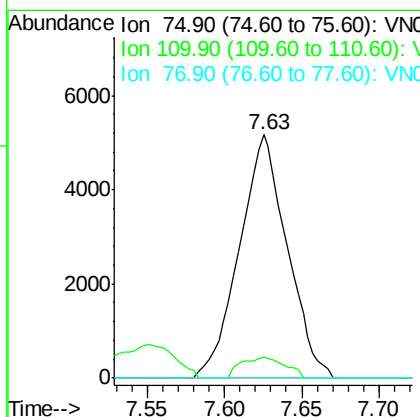
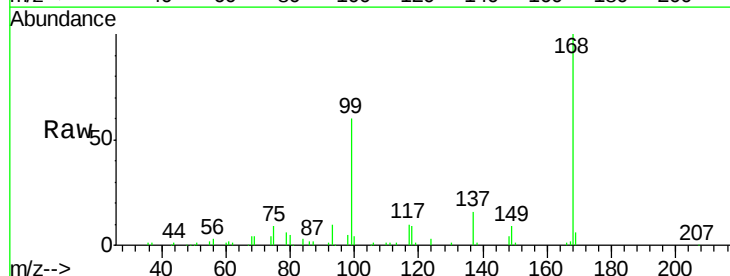
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 ClientSampleId :
 OK-03-061720

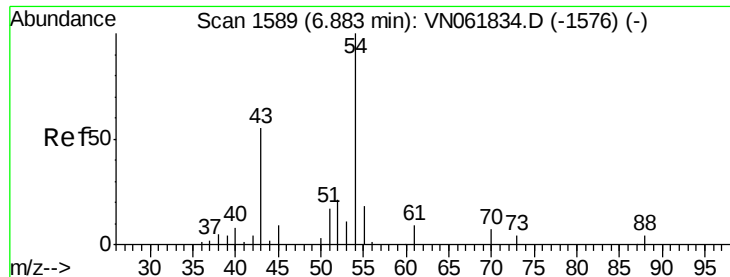
Tgt Ion: 113 Resp: 81096
 Ion Ratio Lower Upper
 113 100
 111 104.0 83.7 125.5
 192 17.6 13.9 20.9



#36
 1,1-Dichloropropene
 Concen: 4.800 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061939.D
 Acq: 19 Jun 2020 8:06

Tgt Ion: 75 Resp: 11094
 Ion Ratio Lower Upper
 75 100
 110 7.9 18.2 54.6#
 77 0.0 24.2 36.4#

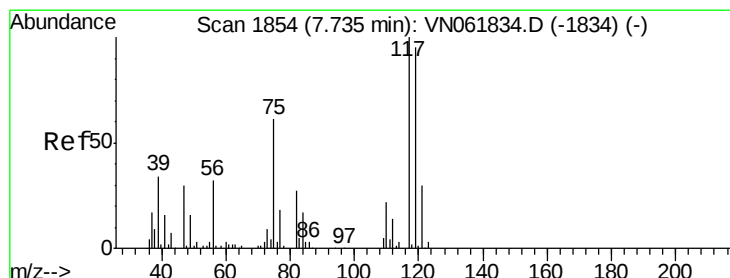
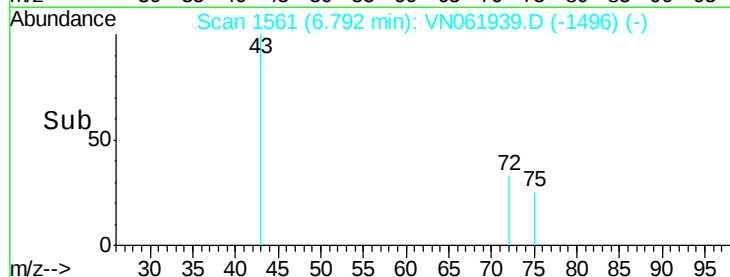
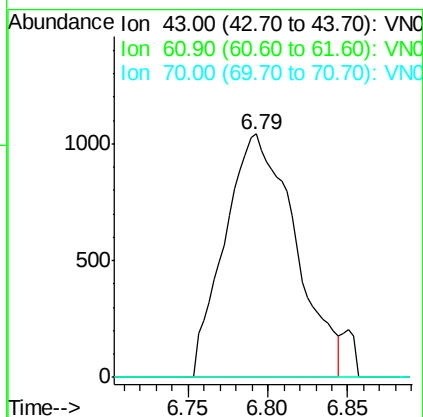
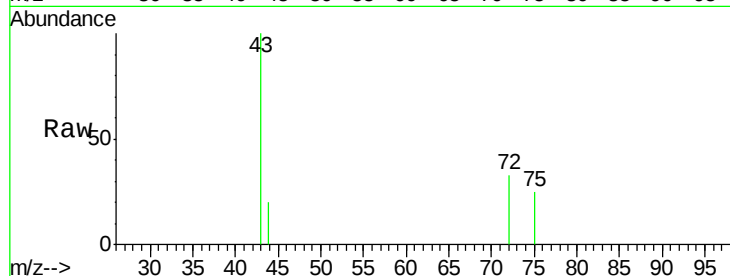




#37
Ethyl Acetate
Concen: 1.747 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. -0.09 min
Lab File: VN061939.D
Acq: 19 Jun 2020 8:06

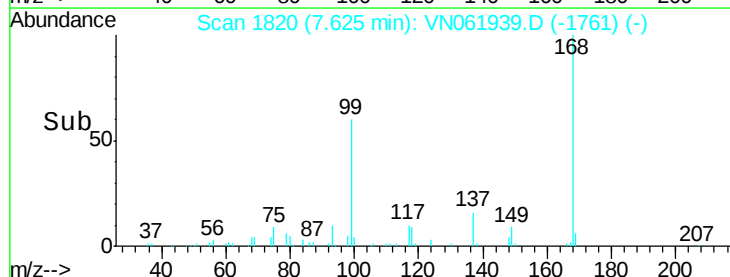
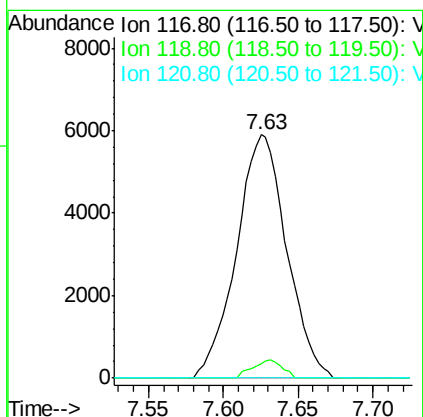
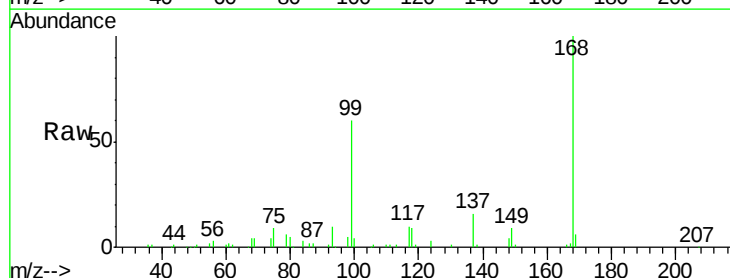
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ClientSampled :
OK-03-061720

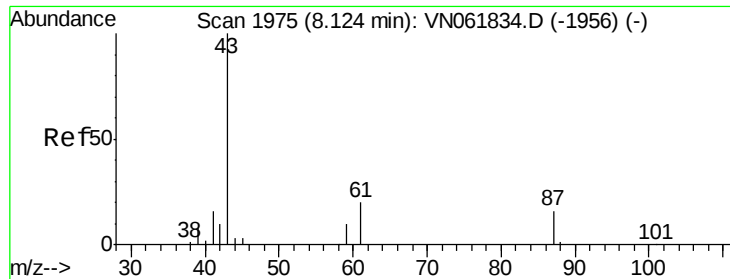
Tgt Ion: 43 Resp: 3154
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.4#
70 0.0 9.4 14.2#



#38
Carbon Tetrachloride
Concen: 6.006 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN061939.D
Acq: 19 Jun 2020 8:06

Tgt Ion: 117 Resp: 13748
Ion Ratio Lower Upper
117 100
119 6.1 75.8 113.6#
121 0.0 23.8 35.6#





#43

Isopropyl Acetate

Concen: 6.815 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

Instrument :

MSVOA_N

ClientSampleId :

OK-03-061720

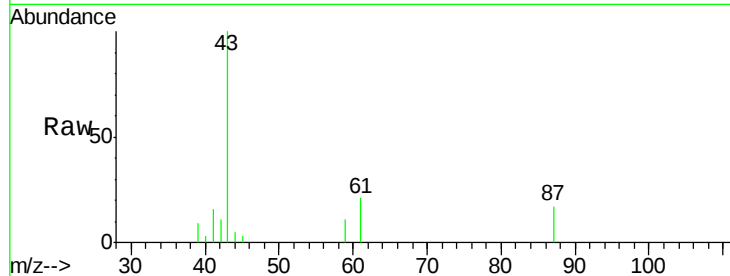
Tgt Ion: 43 Resp: 20731

Ion Ratio Lower Upper

43 100

61 20.1 24.0 36.0#

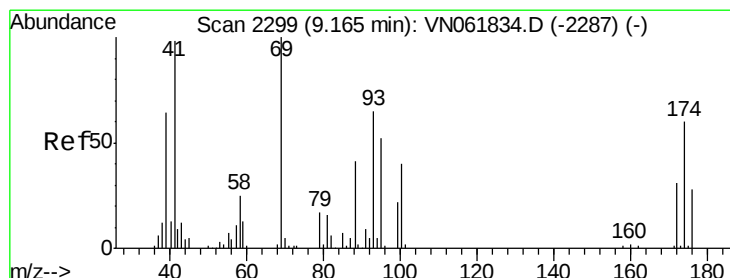
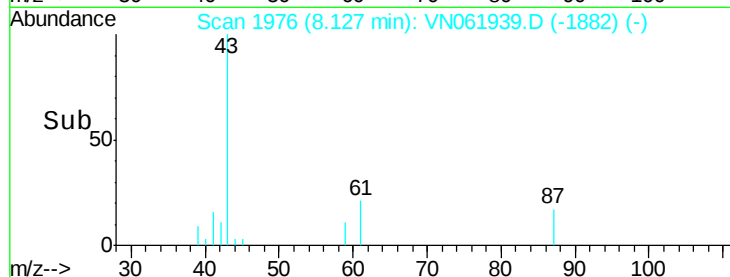
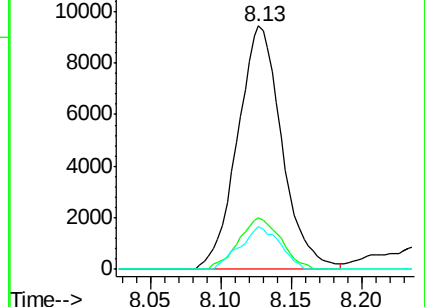
87 15.9 12.5 18.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 0.927 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

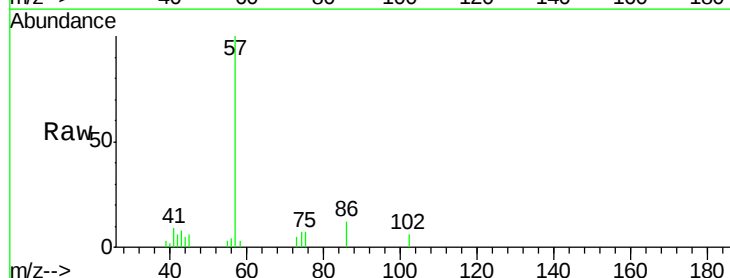
Tgt Ion: 41 Resp: 1283

Ion Ratio Lower Upper

41 100

69 0.0 83.0 124.4#

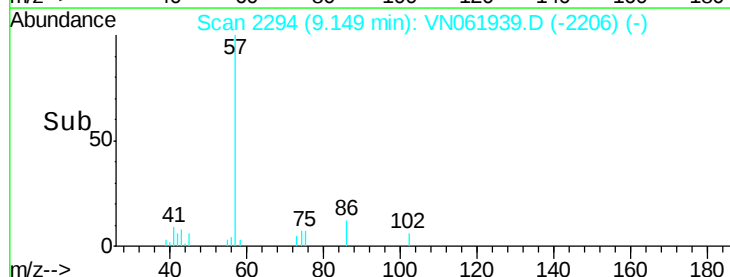
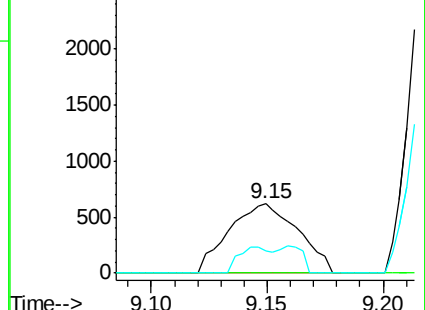
39 0.0 55.1 82.7#

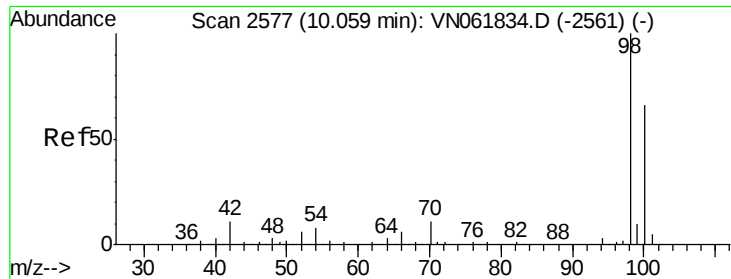


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 50.695 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

Instrument :

MSVOA_N

ClientSampleId :

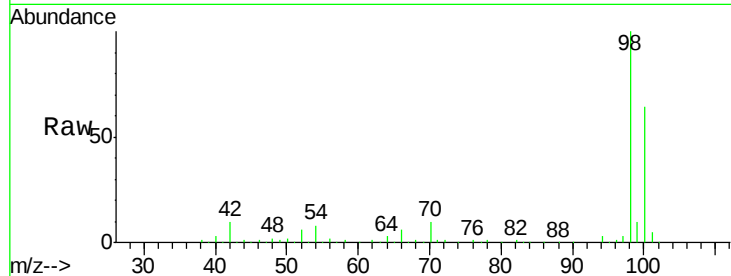
OK-03-061720

Tgt Ion: 98 Resp: 323121

Ion Ratio Lower Upper

98 100

100 64.4 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN061834.D (-2561) (-)

Ion 100.00 (99.70 to 100.70): VN061834.D (-2561) (-)

10.06

200000

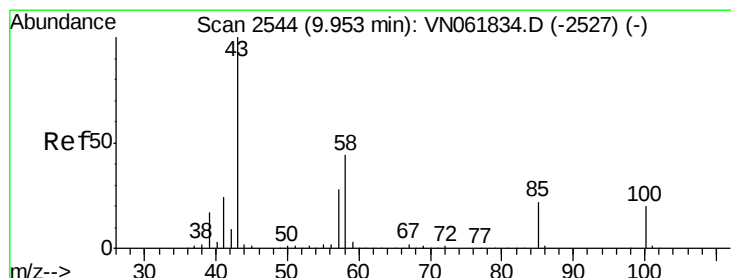
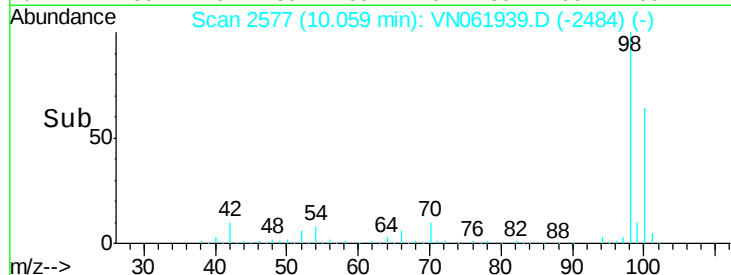
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.792 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN061939.D

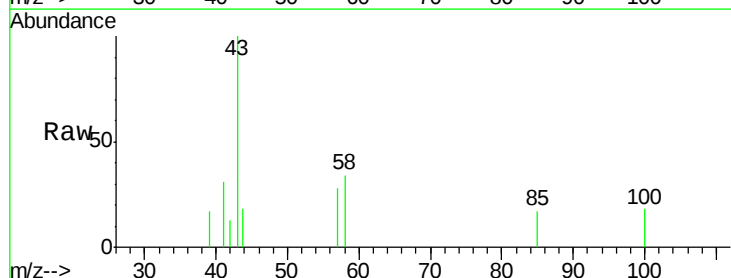
Acq: 19 Jun 2020 8:06

Tgt Ion: 43 Resp: 3221

Ion Ratio Lower Upper

43 100

58 35.6 34.6 52.0



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)

9.95

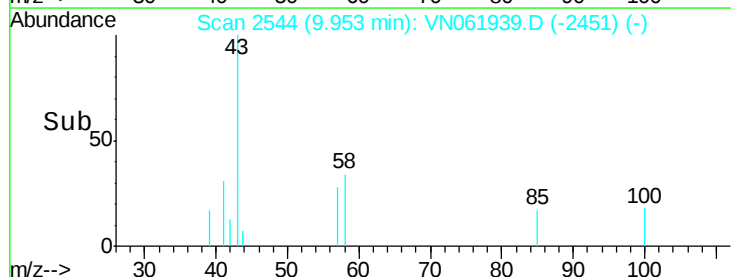
6000

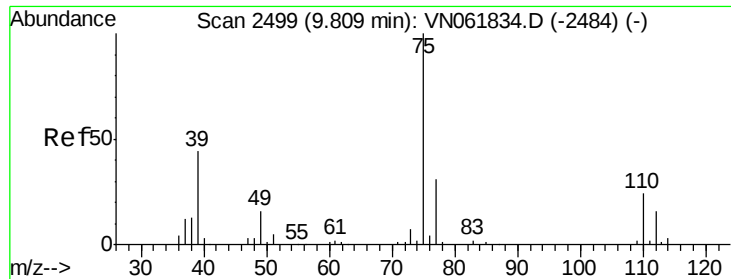
4000

2000

0

Time-->

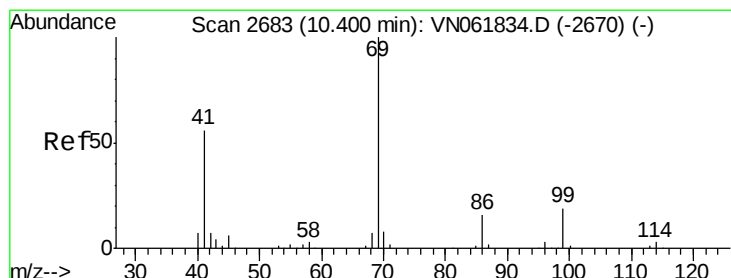
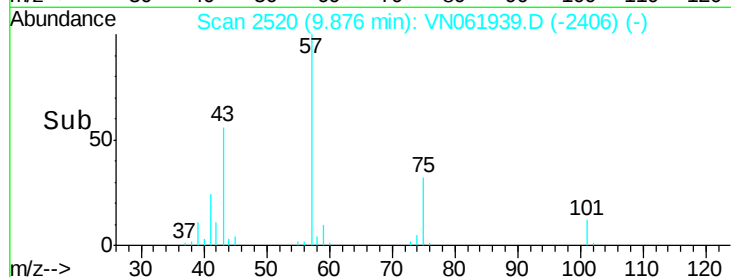
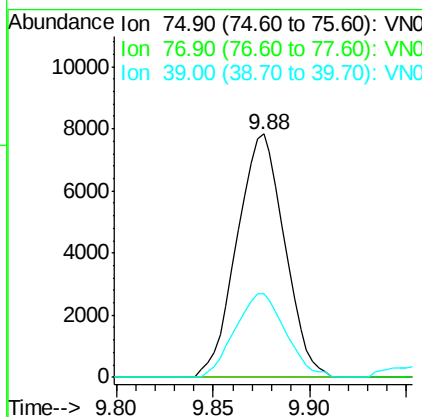
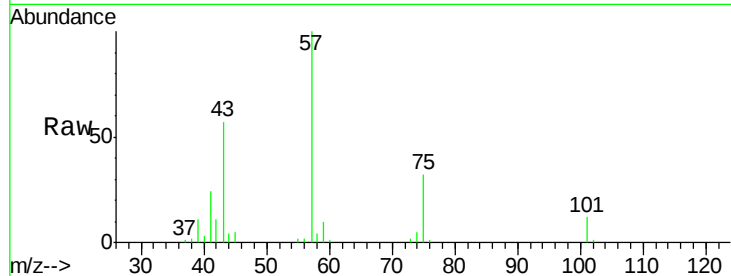




#54
 cis-1,3-Dichloropropene
 Concen: 4.701 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061939.D
 Acq: 19 Jun 2020 8:06

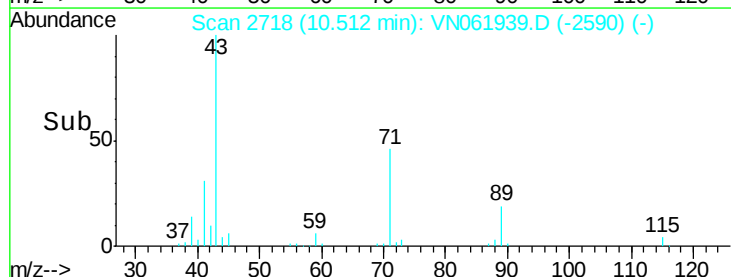
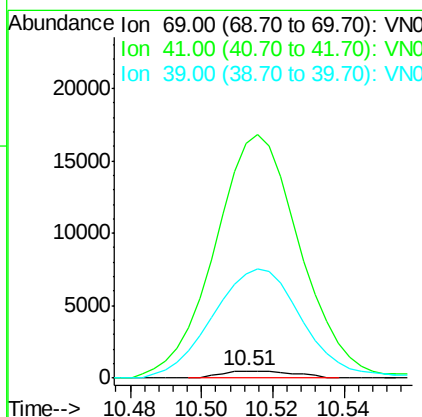
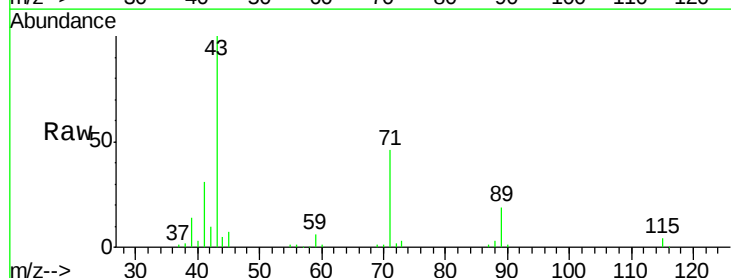
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-061720

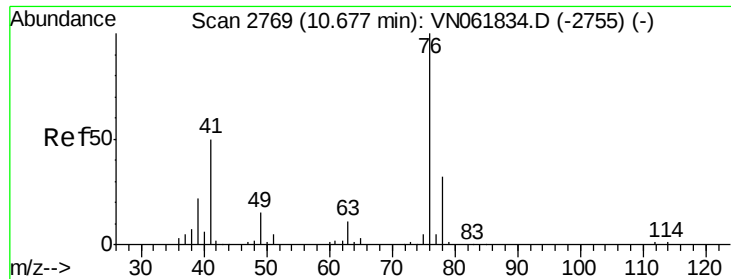
Tgt Ion: 75 Resp: 13448
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 34.2 35.4 53.0#



#56
 Ethyl methacrylate
 Concen: 3.147 ug/l
 RT: 10.51 min Scan# 2718
 Delta R.T. 0.11 min
 Lab File: VN061939.D
 Acq: 19 Jun 2020 8:06

Tgt Ion: 69 Resp: 686
 Ion Ratio Lower Upper
 69 100
 41 4089.1 44.9 67.3#
 39 1914.1 30.0 45.0#

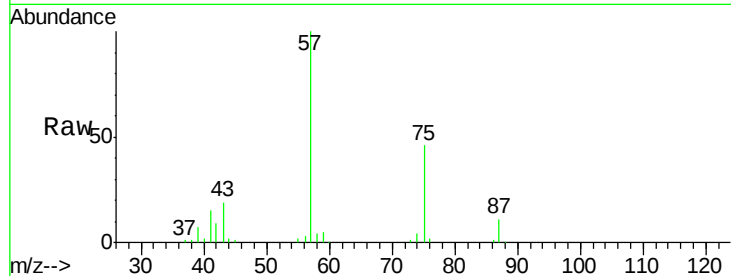




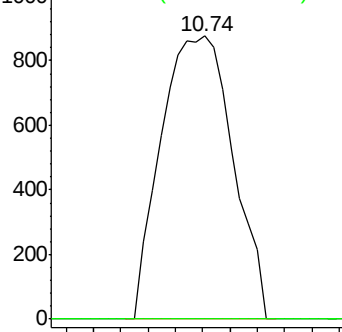
#57
 1,3-Dichloropropane
 Concen: 0.546 ug/l
 RT: 10.74 min Scan# 2789
 Delta R.T. 0.06 min
 Lab File: VN061939.D
 Acq: 19 Jun 2020 8:06

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-061720

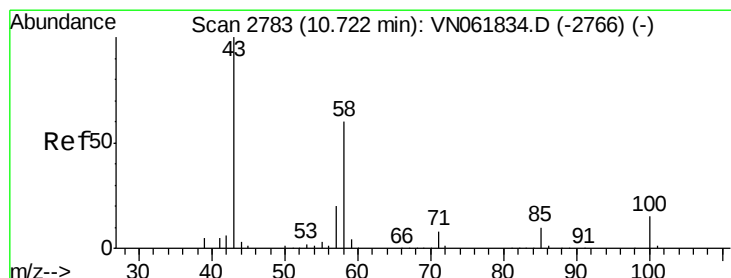
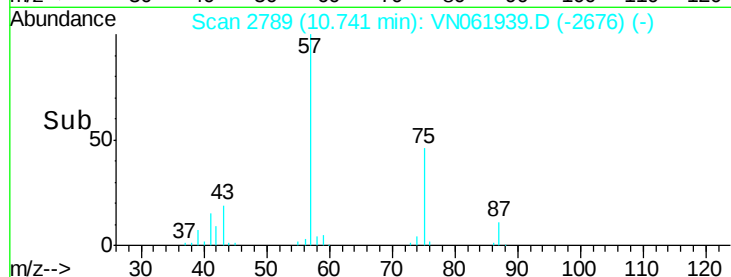
Tgt Ion: 76 Resp: 1599
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

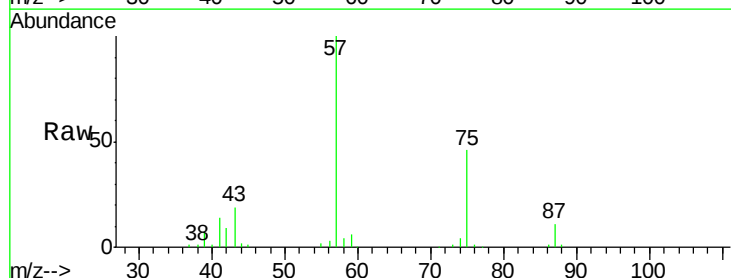


Time-->

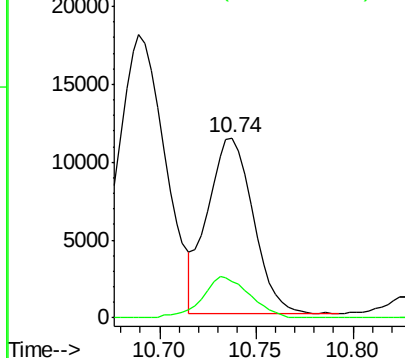


#59
 2-Hexanone
 Concen: 25.652 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061939.D
 Acq: 19 Jun 2020 8:06

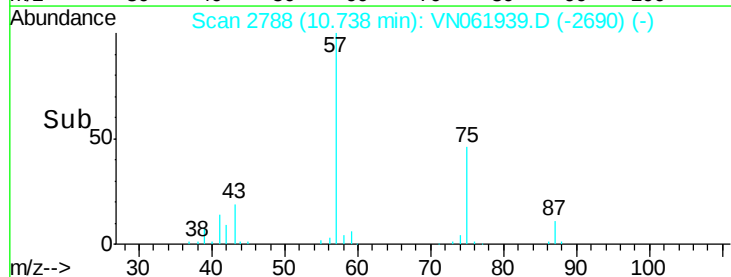
Tgt Ion: 43 Resp: 18582
 Ion Ratio Lower Upper
 43 100
 58 24.1 30.1 90.5#

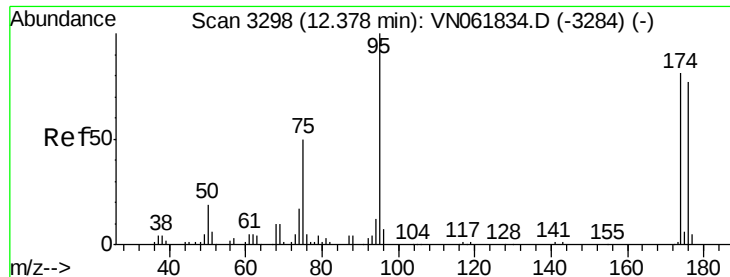


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0



Time-->





#62

4-Bromofluorobenzene

Concen: 46.463 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

Instrument :

MSVOA_N

ClientSampleId :

OK-03-061720

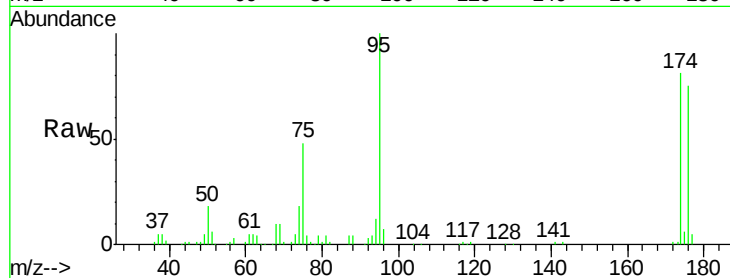
Tgt Ion: 95 Resp: 101583

Ion Ratio Lower Upper

95 100

174 80.1 0.0 158.6

176 75.2 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)

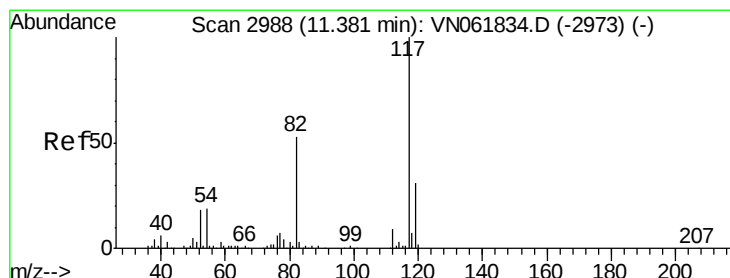
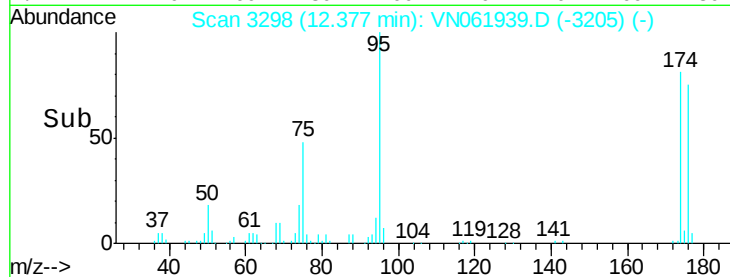
Time-->

12.38

12.35

12.40

12.45



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

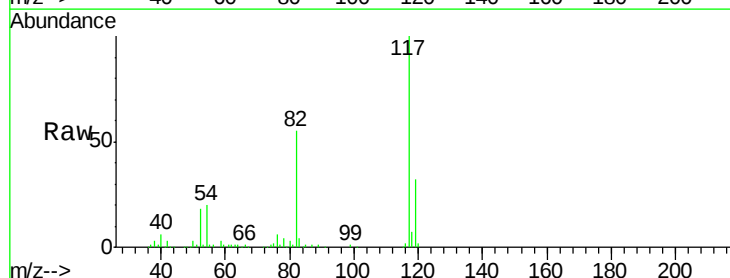
Tgt Ion: 117 Resp: 244765

Ion Ratio Lower Upper

117 100

82 55.5 42.6 64.0

119 32.5 24.7 37.1



Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)

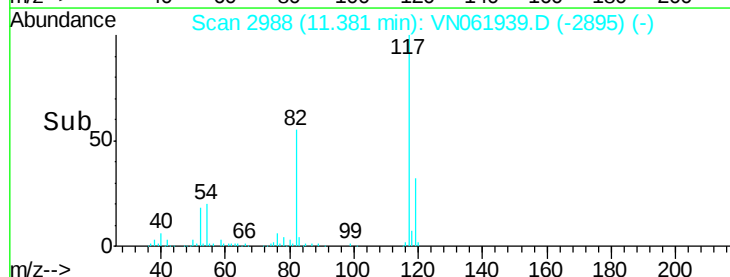
Time-->

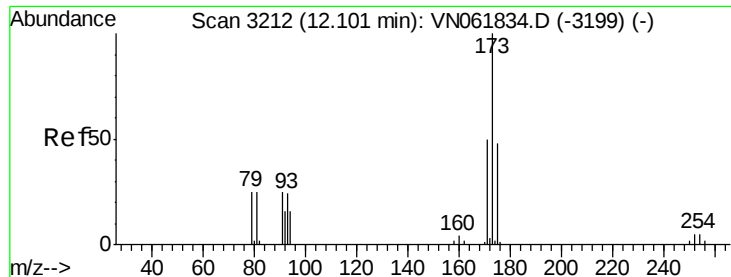
11.38

11.35

11.40

11.45





#71

Bromoform

Concen: 0.760 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

Instrument :

MSVOA_N

ClientSampleId :

OK-03-061720

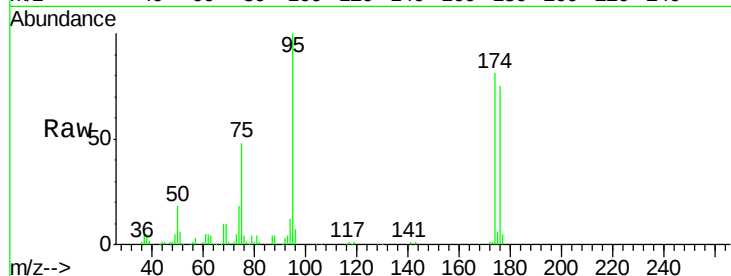
Tgt Ion:173 Resp: 998

Ion Ratio Lower Upper

173 100

175 502.9 23.9 71.7#

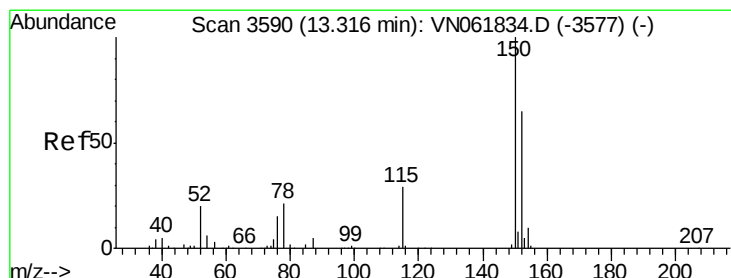
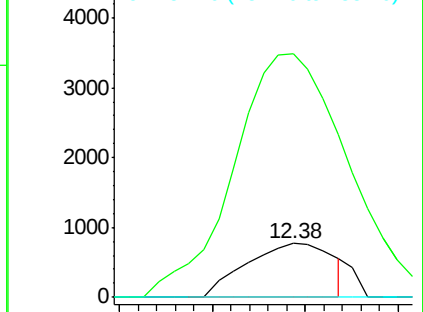
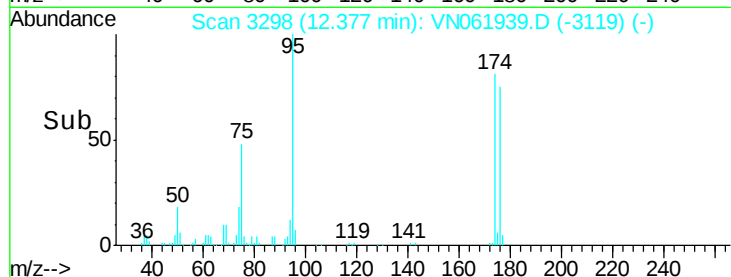
254 0.0 0.0 0.0



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: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

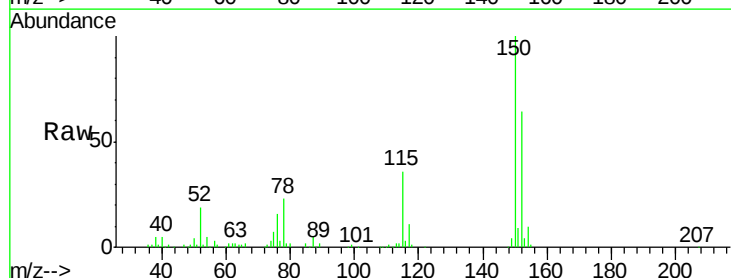
Tgt Ion:152 Resp: 91836

Ion Ratio Lower Upper

152 100

115 57.7 29.1 87.3

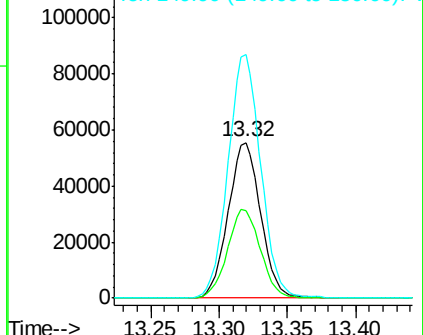
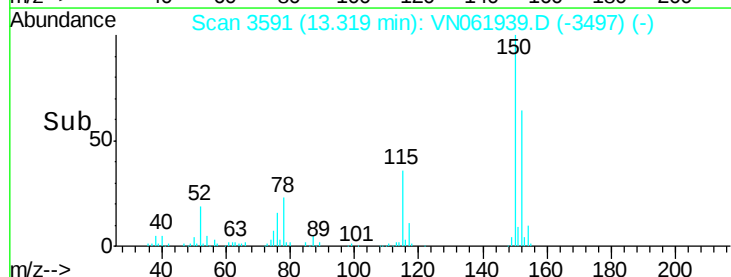
150 158.0 0.0 347.6

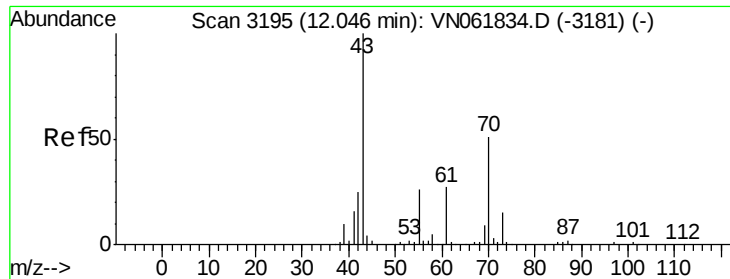


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 3.133 ug/l

RT: 12.06 min Scan# 3200

Delta R.T. 0.02 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

Instrument :

MSVOA_N

ClientSampleId :

OK-03-061720

Tgt Ion: 43 Resp: 173

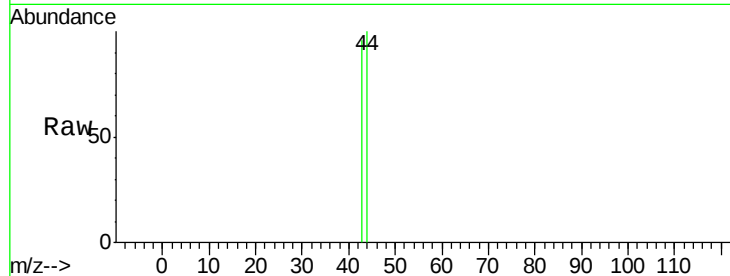
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#



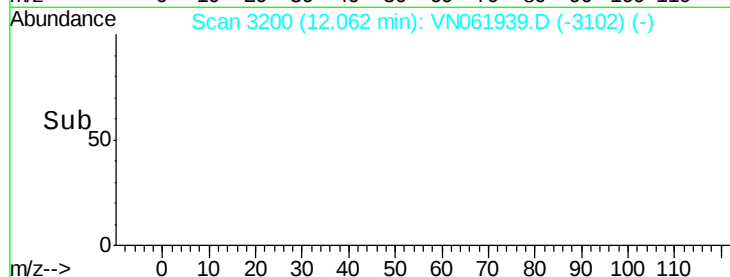
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

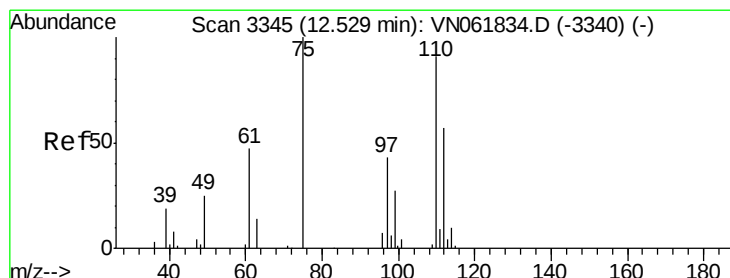
Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Time-->



Time-->



#76

1,2,3-Trichloropropane

Concen: 27.963 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061939.D

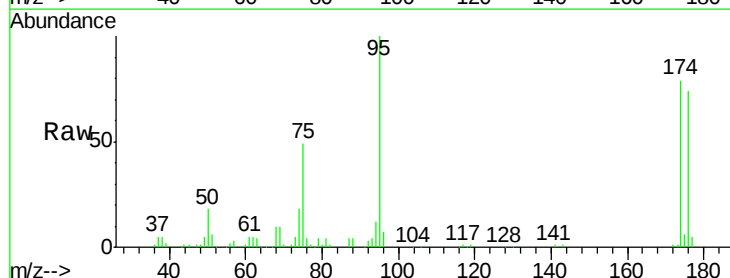
Acq: 19 Jun 2020 8:06

Tgt Ion: 75 Resp: 50417

Ion Ratio Lower Upper

75 100

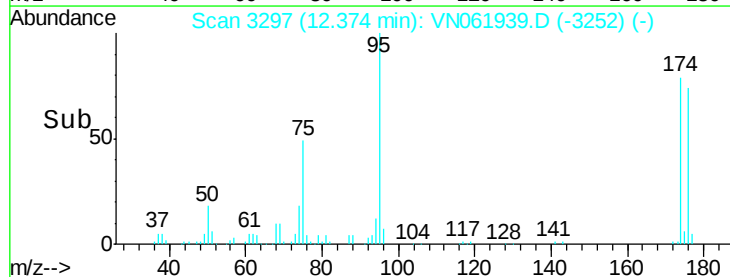
77 1.0 0.0 0.0#



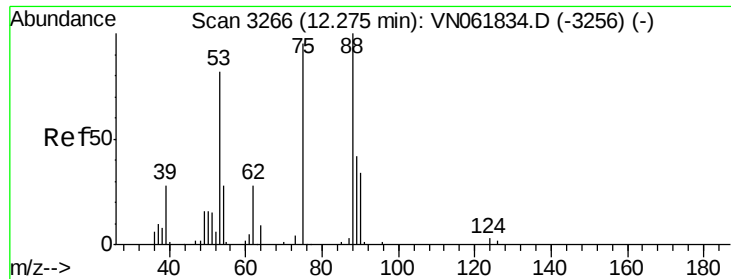
Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

Time-->



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 76.268 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061939.D

Acq: 19 Jun 2020 8:06

Instrument :

MSVOA_N

ClientSampleId :

OK-03-061720

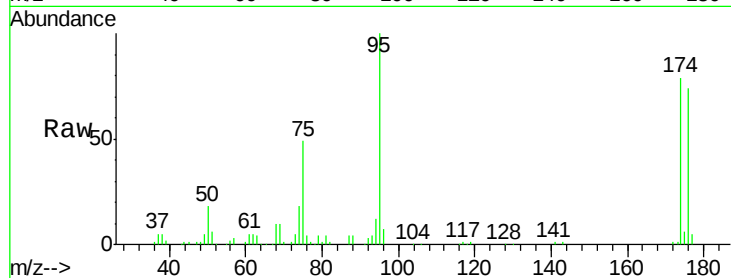
Tgt Ion: 75 Resp: 50417

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 36.0 54.0#



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

