

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080620\
 Data File : VN062771.D
 Acq On : 6 Aug 2020 17:07
 Operator : JC/MD
 Sample : L3502-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-080520

Quant Time: Aug 07 03:09:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:26:42 2020
 Response via : Initial Calibration

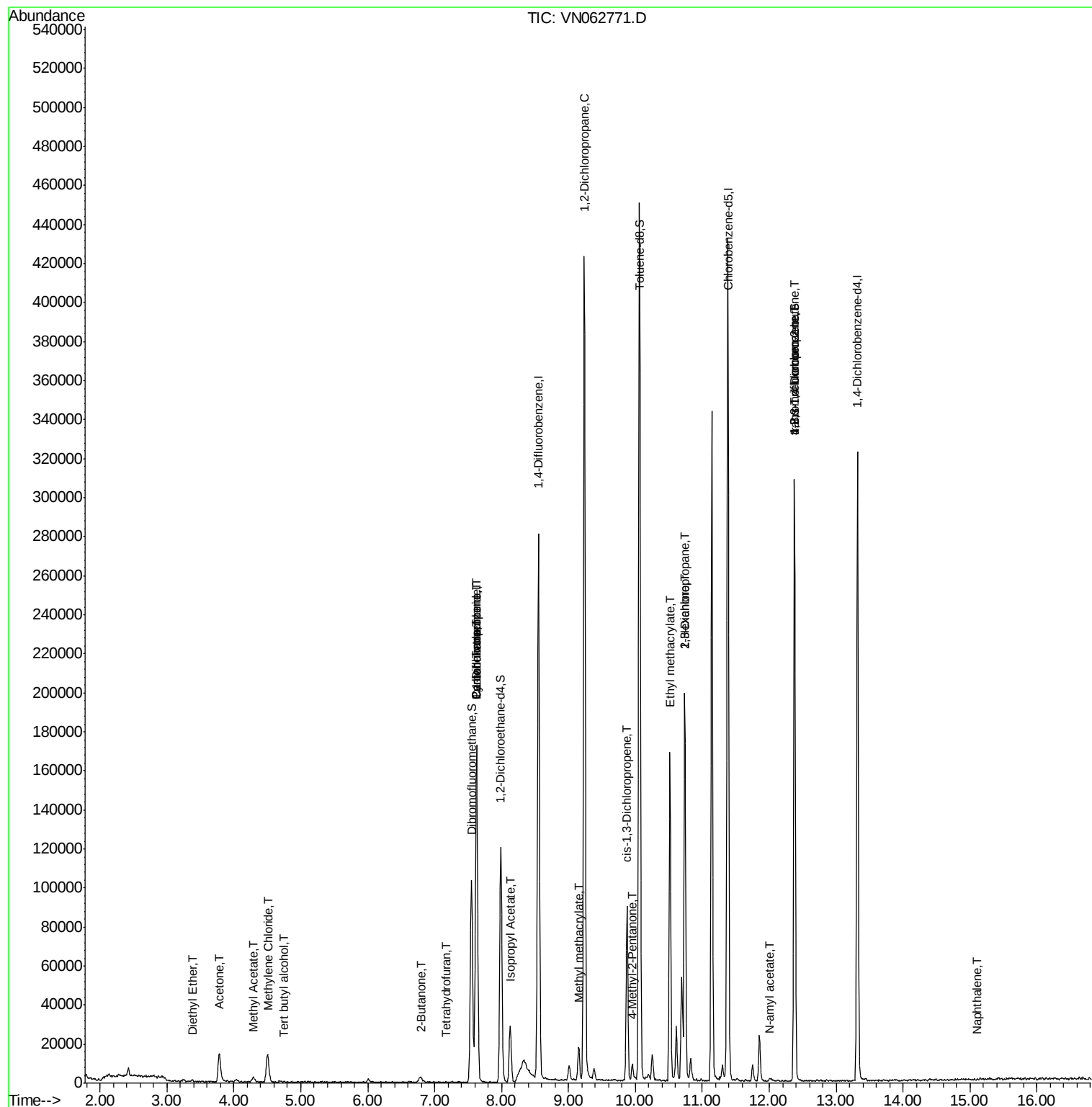
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	131013	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	235704	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	239231	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	82450	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	111511	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
35) Dibromofluoromethane	7.55	113	78525	48.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.40%	
50) Toluene-d8	10.06	98	309911	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	
62) 4-Bromofluorobenzene	12.38	95	108202	45.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.98%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.38	74	459	0.542	ug/l	54
11) Tert butyl alcohol	4.75	59	442	1.245	ug/l #	72
16) Acetone	3.78	43	26298	33.592	ug/l	99
17) Carbon Disulfide	4.00	76	269	Below Cal	#	74
18) Methyl Acetate	4.29	43	4613	1.393	ug/l	92
20) Methylene Chloride	4.50	84	10285	6.518	ug/l	94
25) 2-Butanone	6.81	43	3141	2.833	ug/l #	89
29) Tetrahydrofuran	7.17	42	159	0.221	ug/l #	33
31) Cyclohexane	7.63	56	2918	1.111	ug/l #	15
36) 1,1-Dichloropropene	7.63	75	11665	5.083	ug/l #	49
38) Carbon Tetrachloride	7.63	117	14061	5.180	ug/l #	15
43) Isopropyl Acetate	8.13	43	34657	8.667	ug/l	97
45) 1,2-Dichloropropane	9.23	63	509	0.275	ug/l #	45
48) Methyl methacrylate	9.15	41	2465	1.253	ug/l #	13
51) 4-Methyl-2-Pentanone	9.96	43	4991	1.929	ug/l	95
54) cis-1,3-Dichloropropene	9.88	75	15489	5.142	ug/l #	63
56) Ethyl methacrylate	10.52	69	971	0.357	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	1935	0.631	ug/l #	43
59) 2-Hexanone	10.74	43	28494	14.764	ug/l #	53
74) N-amyl acetate	12.01	43	1753	0.697	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	58994	26.531	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	58994	80.992	ug/l #	10
95) Naphthalene	15.11	128	147	3.744	ug/l #	68

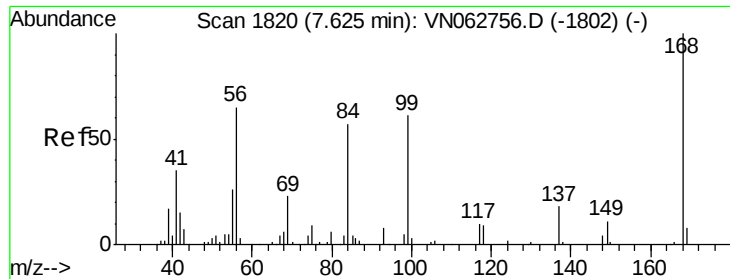
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN080620\
Data File : VN062771.D
Acq On : 6 Aug 2020 17:07
Operator : JC/MD
Sample : L3502-05
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OK-03-080520

Quant Time: Aug 07 03:09:34 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
Quant Title : SW846 8260
QLast Update : Wed Aug 05 13:26:42 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN062771.D

Acq: 6 Aug 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

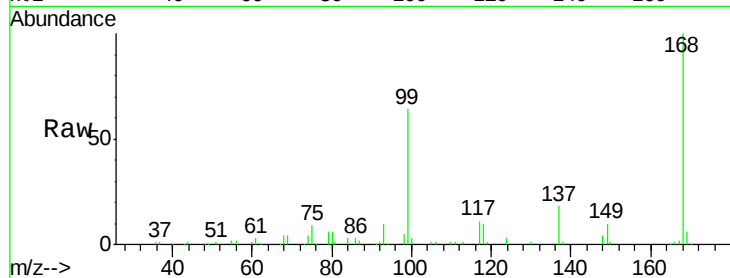
OK-03-080520

Tot Ion:168 Resp: 131013

Ion Ratio Lower Upper

168 100

99 63.7 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

50000

40000

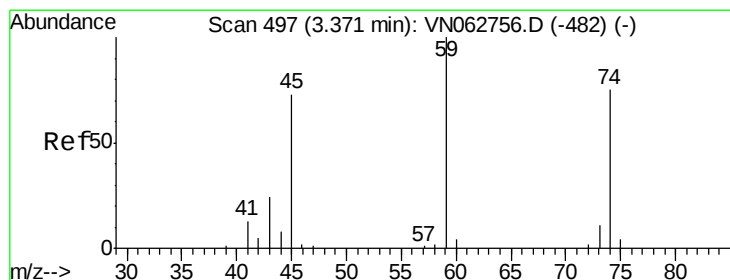
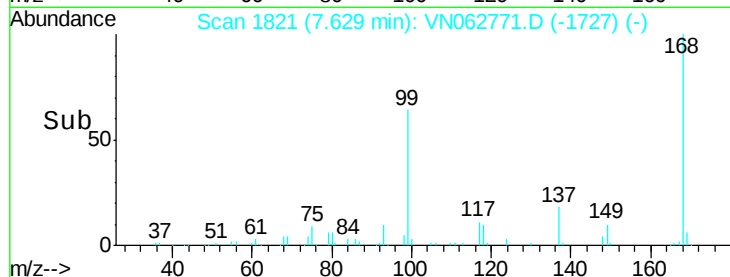
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#8

Diethyl Ether

Concen: 0.542 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.01 min

Lab File: VN062771.D

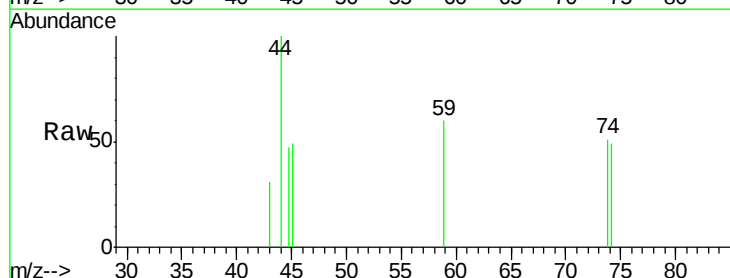
Acq: 6 Aug 2020 17:07

Tgt Ion: 74 Resp: 459

Ion Ratio Lower Upper

74 100

45 142.5 48.7 146.1



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

3.38

500

400

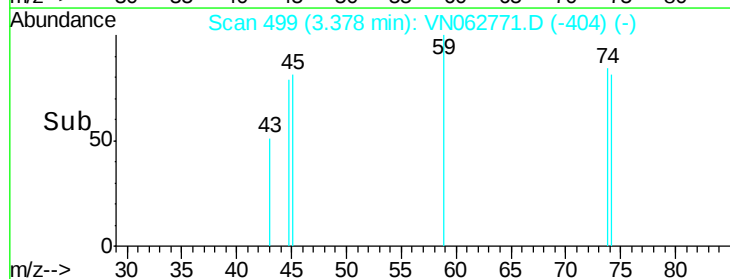
300

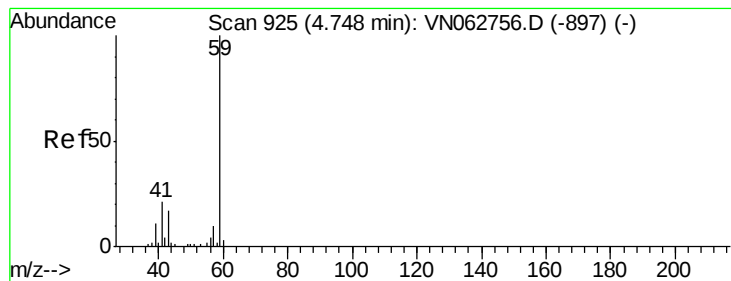
200

100

0

Time--> 3.36 3.38 3.40



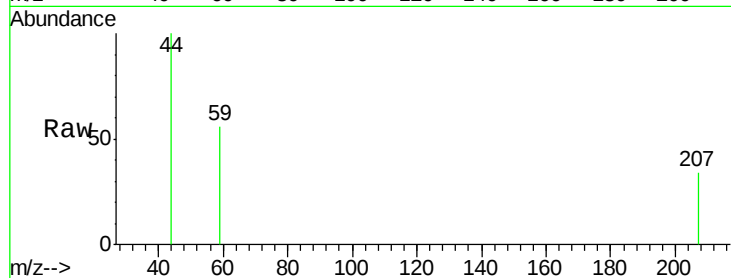


#11

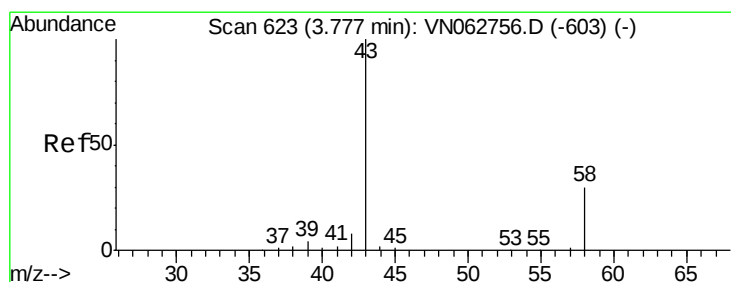
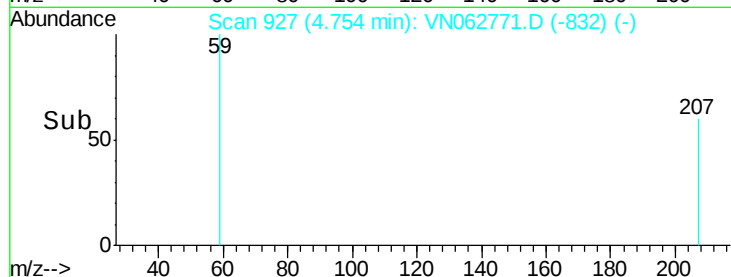
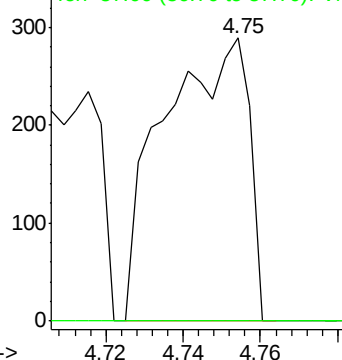
Tert butyl alcohol
Concen: 1.245 ug/l
RT: 4.75 min Scan# 927
Delta R.T. 0.01 min
Lab File: VN062771.D
Acq: 6 Aug 2020 17:07

Instrument :
MSVOA_N
ClientSampleId :
OK-03-080520

Tot Ion: 59 Resp: 442
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



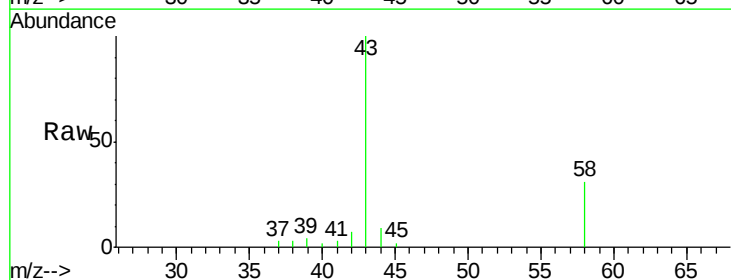
Abundance Ion 59.00 (58.70 to 59.70): VN0
Ion 57.00 (56.70 to 57.70): VN0



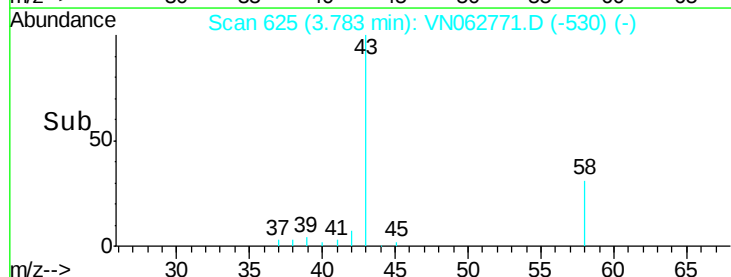
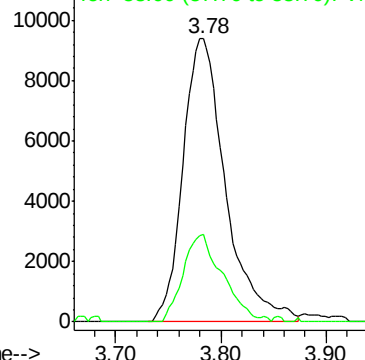
#16

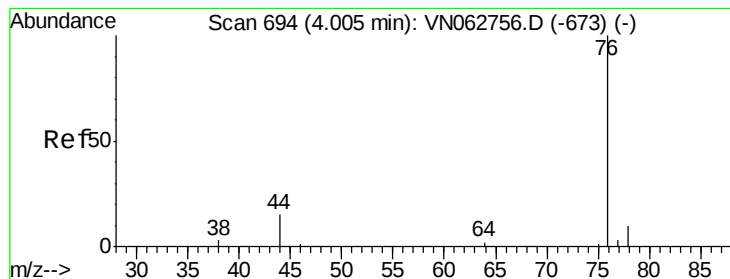
Acetone
Concen: 33.592 ug/l
RT: 3.78 min Scan# 625
Delta R.T. 0.01 min
Lab File: VN062771.D
Acq: 6 Aug 2020 17:07

Tgt Ion: 43 Resp: 26298
Ion Ratio Lower Upper
43 100
58 30.8 24.1 36.1



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





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN062771.D

Acq: 6 Aug 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

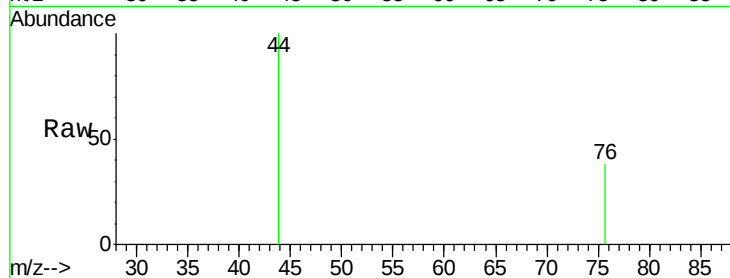
OK-03-080520

Tot Ion: 76 Resp: 269

Ion Ratio Lower Upper

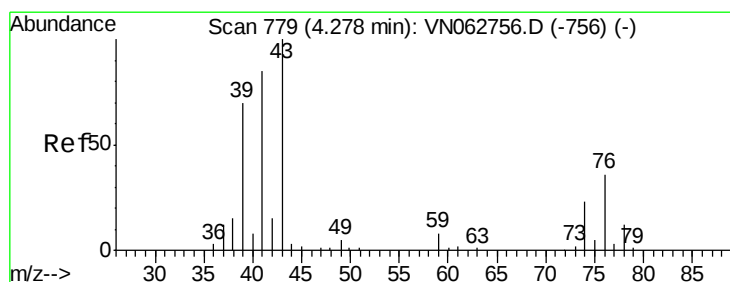
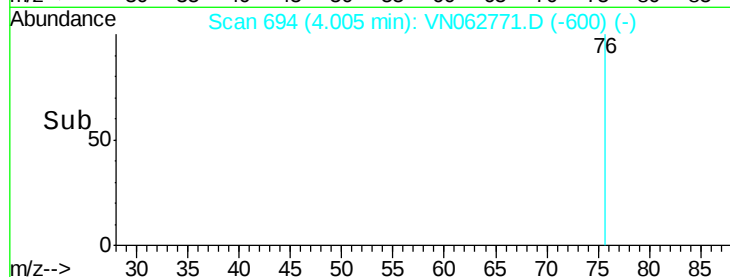
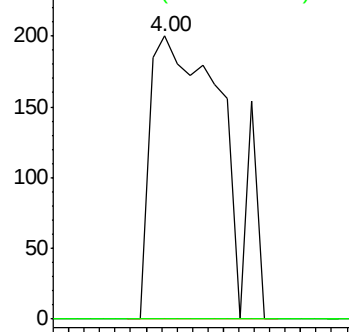
76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.393 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.01 min

Lab File: VN062771.D

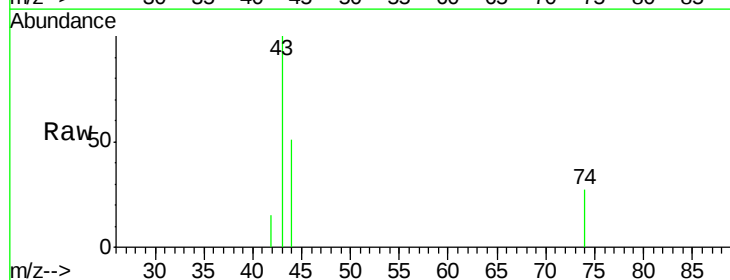
Acq: 6 Aug 2020 17:07

Tgt Ion: 43 Resp: 4613

Ion Ratio Lower Upper

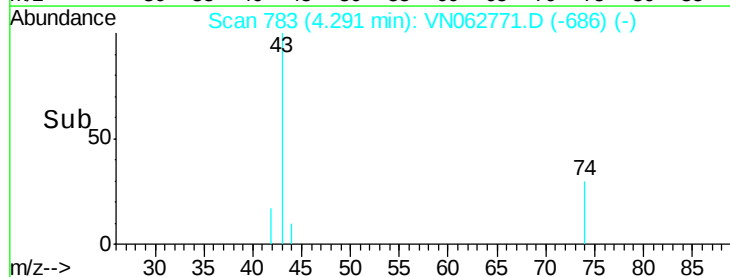
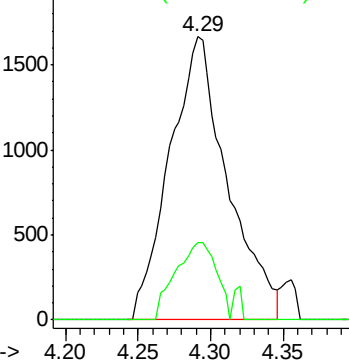
43 100

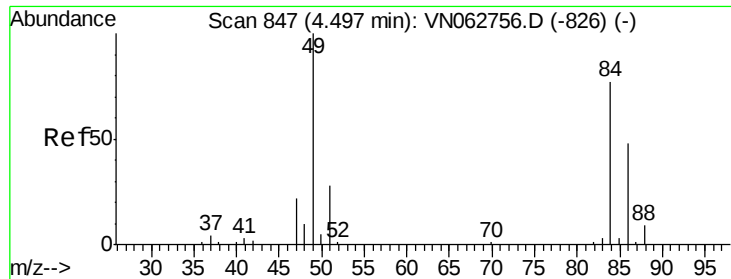
74 19.5 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

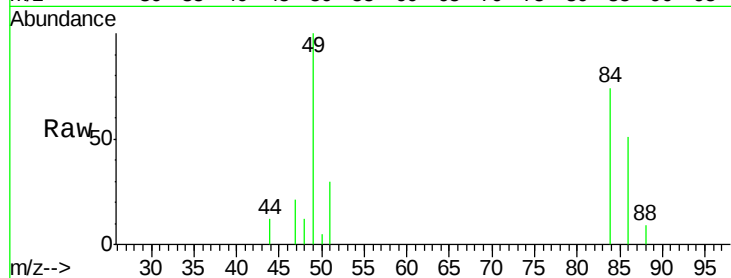




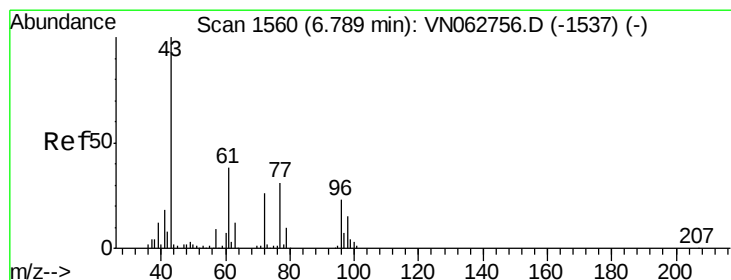
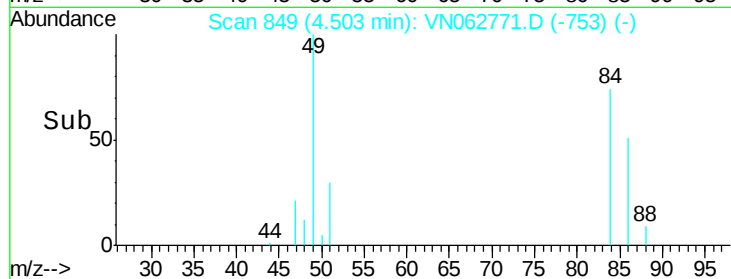
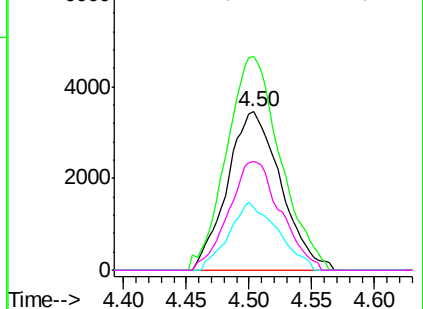
#20
Methvlene Chloride
Concen: 6.518 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.01 min
Lab File: VN062771.D
Acq: 6 Aug 2020 17:07

Instrument :
MSVOA_N
ClientSampleId :
OK-03-080520

Tot Ion:	84	Resp:	10285
Ion	Ratio	Lower	Upper
84	100		
49	135.1	103.4	155.2
51	39.9	29.3	43.9
86	68.6	49.9	74.9

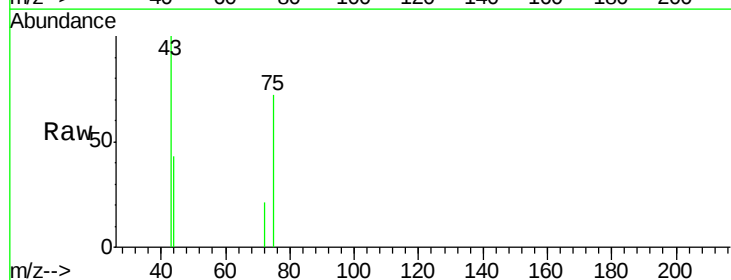


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

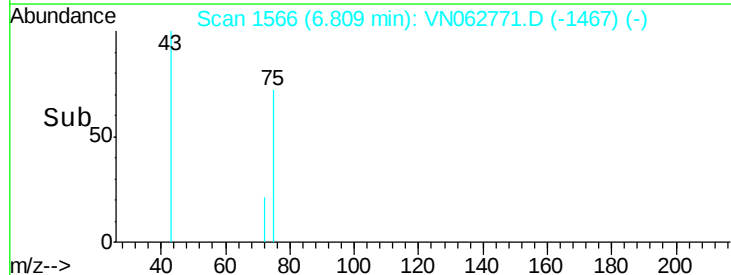
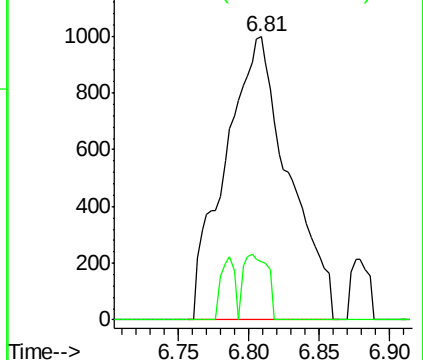


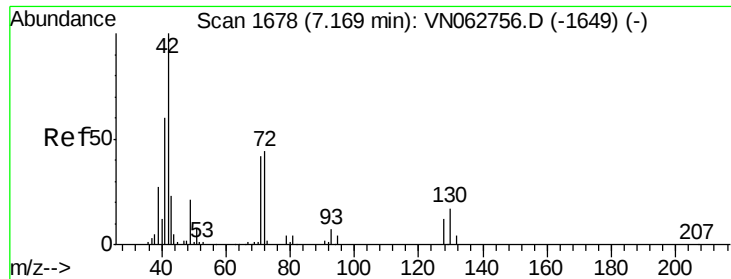
#25
2-Butanone
Concen: 2.833 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.02 min
Lab File: VN062771.D
Acq: 6 Aug 2020 17:07

Tgt Ion:	43	Resp:	3141
Ion	Ratio	Lower	Upper
43	100		
72	20.5	21.1	31.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

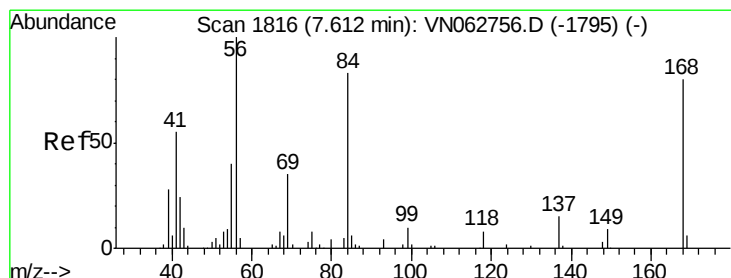
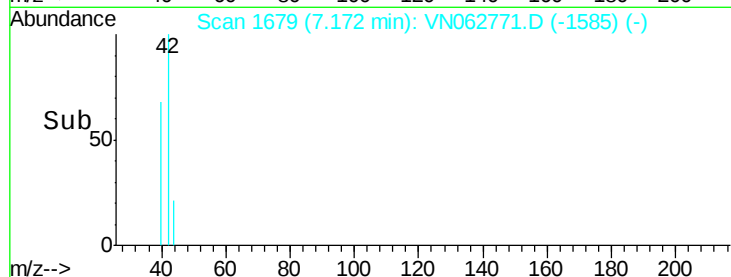
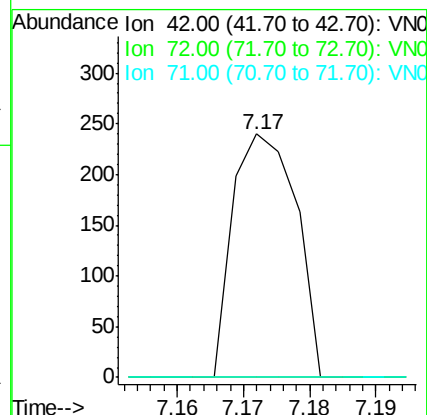
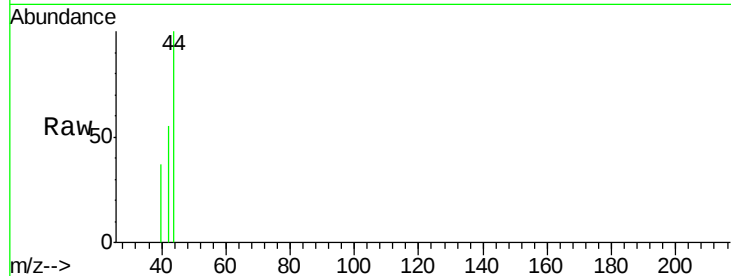




#29
Tetrahydrofuran
Concen: 0.221 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VN062771.D
Acq: 6 Aug 2020 17:07

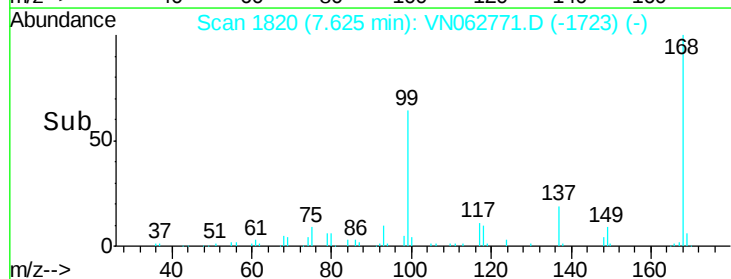
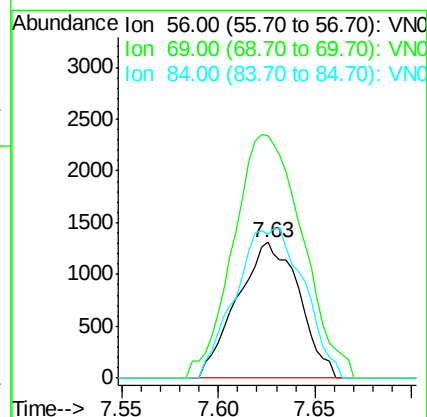
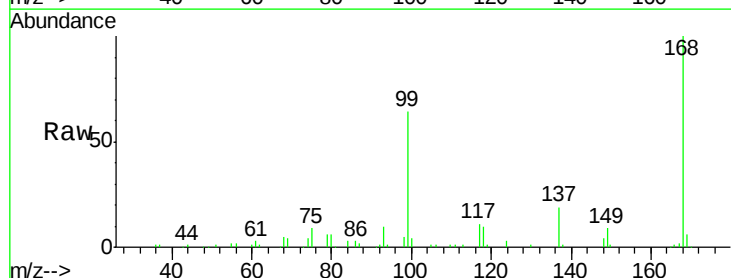
Instrument :
MSVOA_N
ClientSampleId :
OK-03-080520

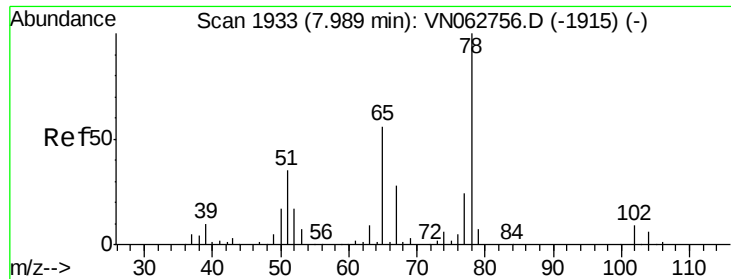
Tot Ion: 42 Resp: 159
Ion Ratio Lower Upper
42 100
72 0.0 35.0 52.4#
71 0.0 33.2 49.8#



#31
Cyclohexane
Concen: 1.111 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062771.D
Acq: 6 Aug 2020 17:07

Tgt Ion: 56 Resp: 2918
Ion Ratio Lower Upper
56 100
69 166.6 28.1 42.1#
84 106.2 66.8 100.2#





#33

1,2-Dichloroethane-d4

Concen: 51.470 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062771.D

Acq: 6 Aug 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

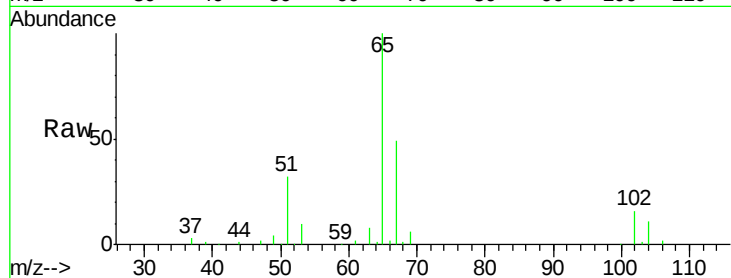
OK-03-080520

Tot Ion: 65 Resp: 111511

Ion Ratio Lower Upper

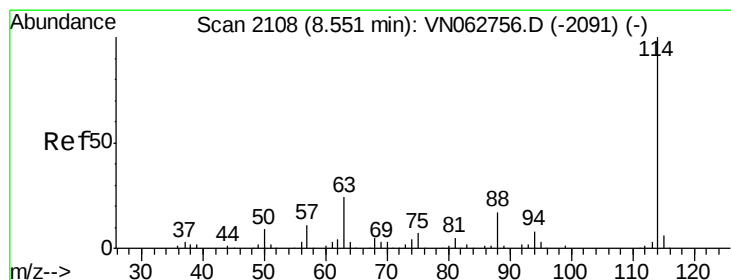
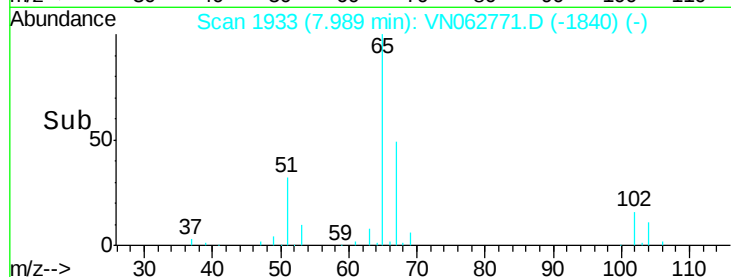
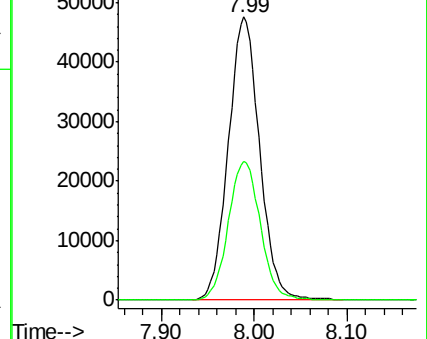
65 100

67 49.9 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN062771.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN062771.D (-1840) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN062771.D

Acq: 6 Aug 2020 17:07

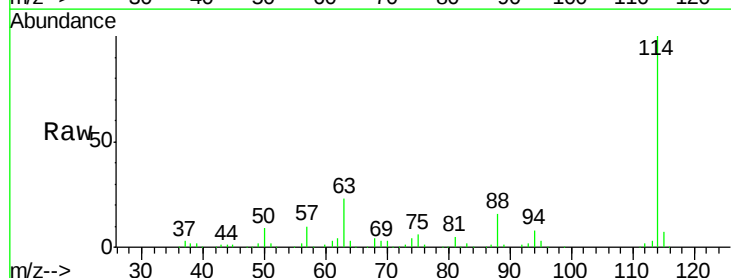
Tgt Ion: 114 Resp: 235704

Ion Ratio Lower Upper

114 100

63 23.0 0.0 47.6

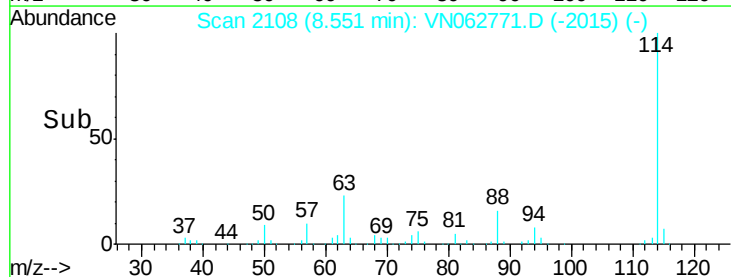
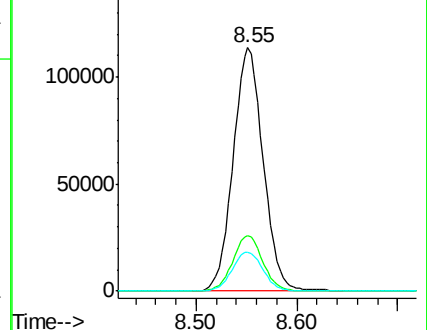
88 15.9 0.0 34.4

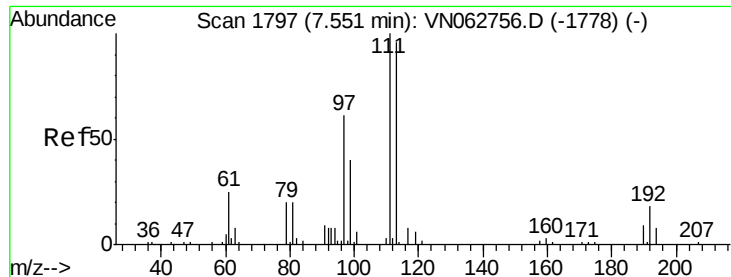


Abundance Ion 113.90 (113.60 to 114.60): VN062771.D (-2015) (-)

Ion 63.00 (62.70 to 63.70): VN062771.D (-2015) (-)

Ion 87.90 (87.60 to 88.60): VN062771.D (-2015) (-)

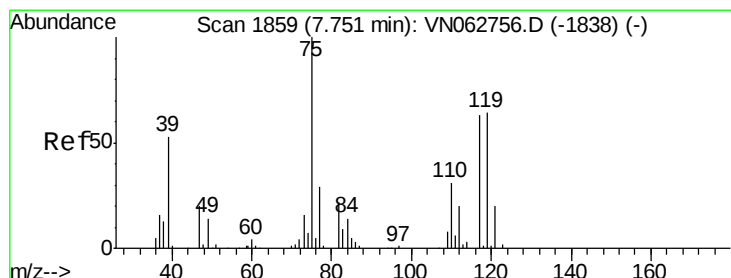
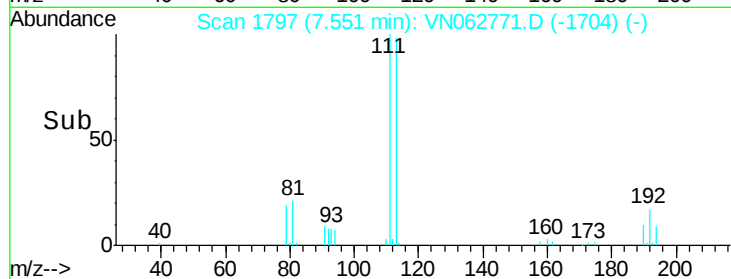
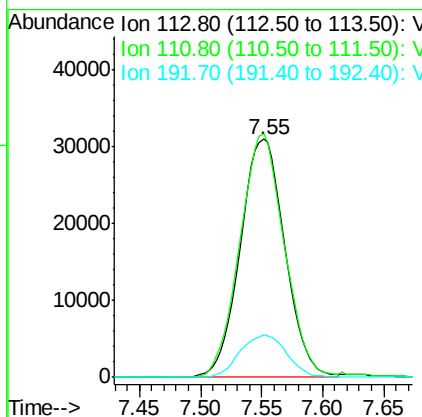
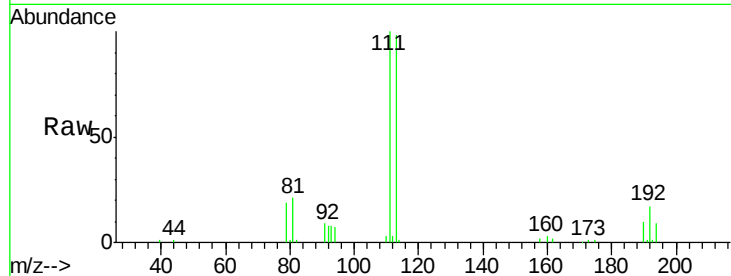




#35
 Dibromofluoromethane
 Concen: 48.702 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062771.D
 Acq: 6 Aug 2020 17:07

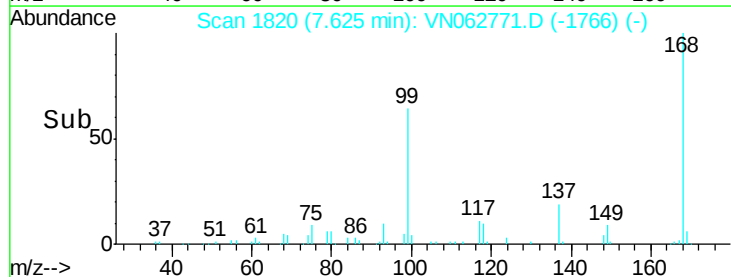
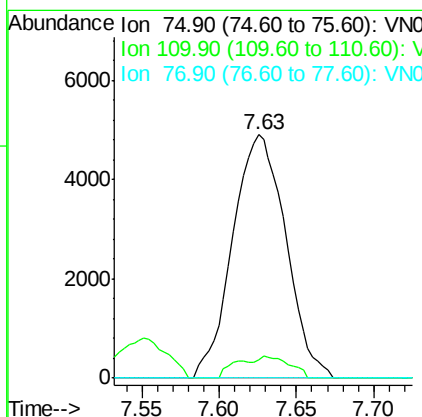
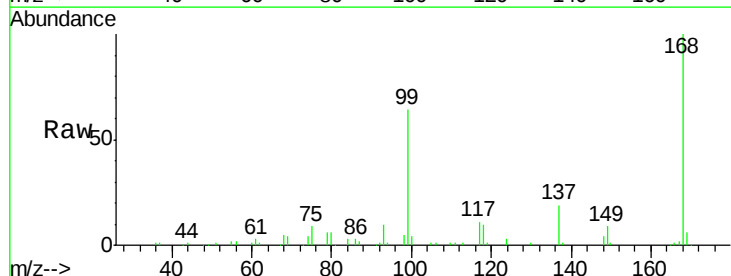
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-080520

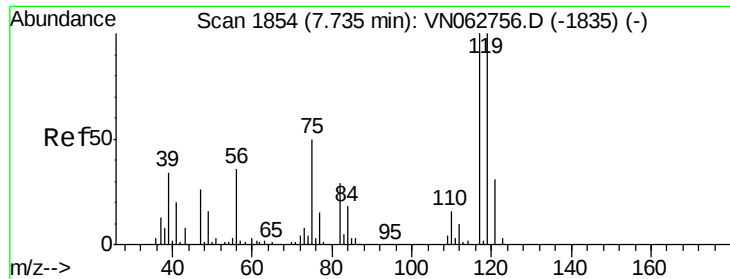
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.6
192	18.5	15.0	22.4



#36
 1,1-Dichloropropene
 Concen: 5.083 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062771.D
 Acq: 6 Aug 2020 17:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.4	15.6	46.7#
77	0.0	24.1	36.1#

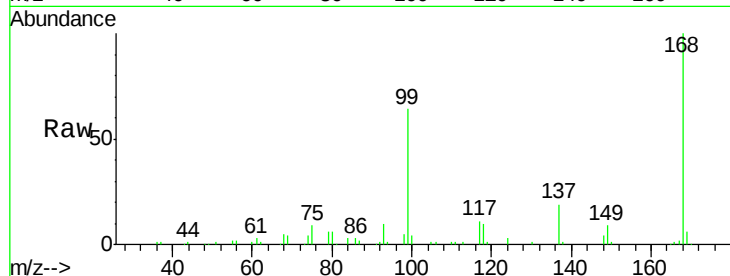




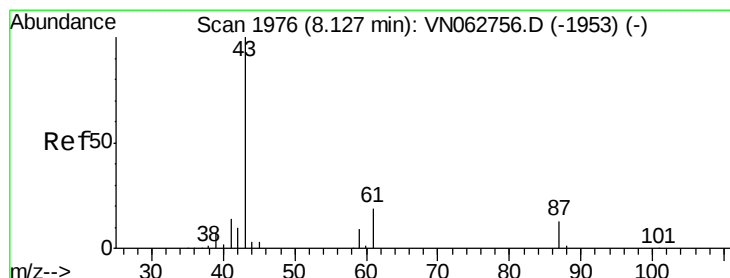
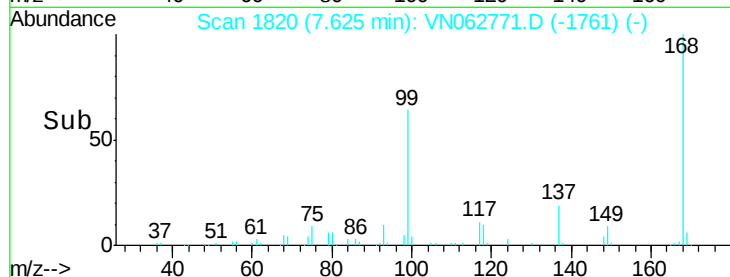
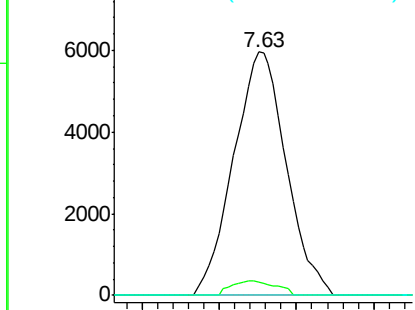
#38
Carbon Tetrachloride
Concen: 5.180 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN062771.D
Acq: 6 Aug 2020 17:07

Instrument :
MSVOA_N
ClientSampleId :
OK-03-080520

Tot Ion:117 Resp: 14061
Ion Ratio Lower Upper
117 100
119 5.4 79.4 119.2#
121 0.0 24.9 37.3#

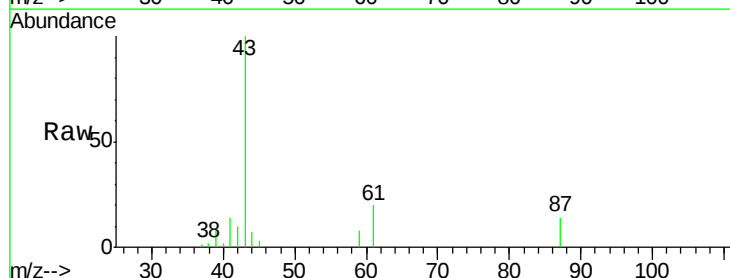


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

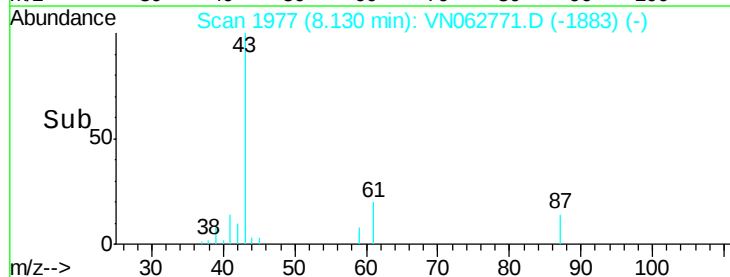
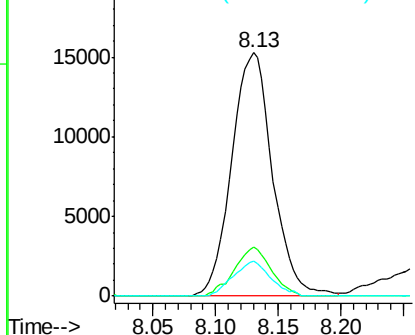


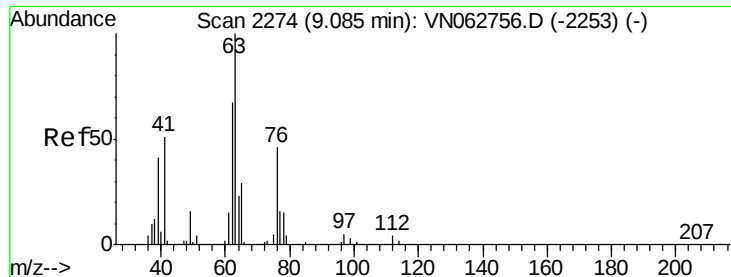
#43
Isopropyl Acetate
Concen: 8.667 ug/l
RT: 8.13 min Scan# 1977
Delta R.T. 0.00 min
Lab File: VN062771.D
Acq: 6 Aug 2020 17:07

Tgt Ion: 43 Resp: 34657
Ion Ratio Lower Upper
43 100
61 18.1 15.8 23.6
87 13.0 9.9 14.9



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: 0.275 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN062771.D

Acq: 6 Aug 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

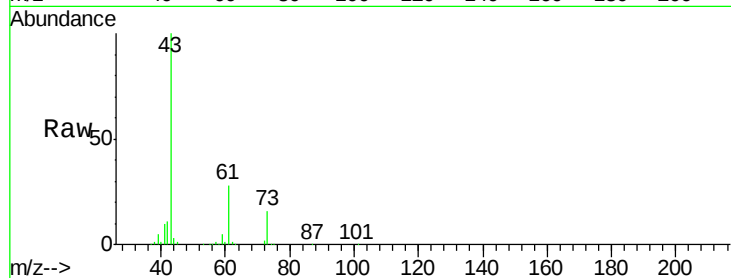
OK-03-080520

Tot Ion: 63 Resp: 509

Ion Ratio Lower Upper

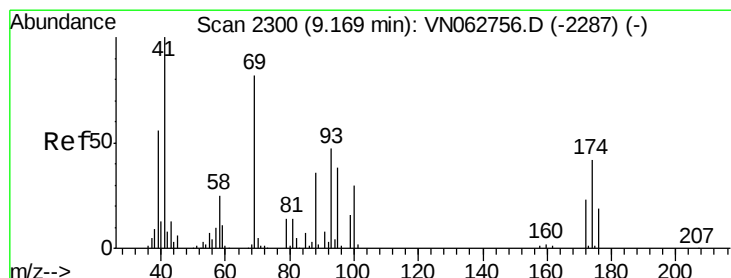
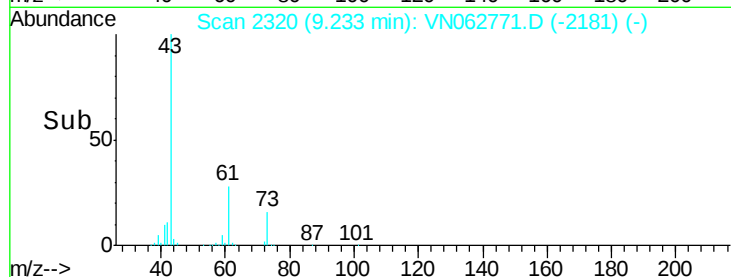
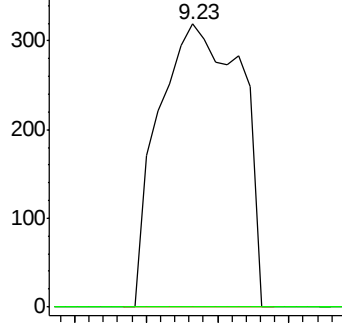
63 100

65 0.0 23.5 35.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.253 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN062771.D

Acq: 6 Aug 2020 17:07

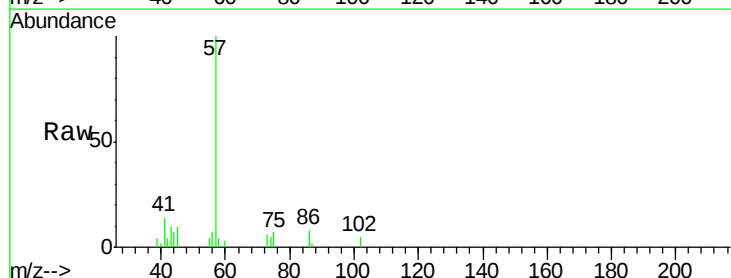
Tgt Ion: 41 Resp: 2465

Ion Ratio Lower Upper

41 100

69 0.0 67.4 101.2#

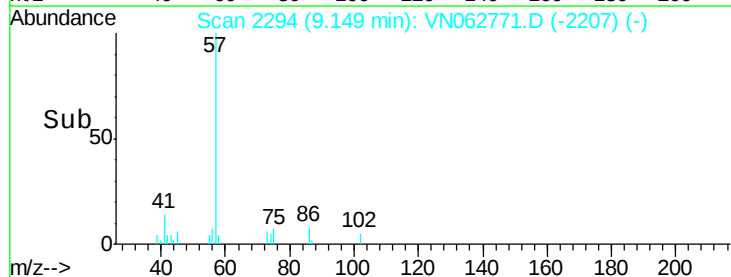
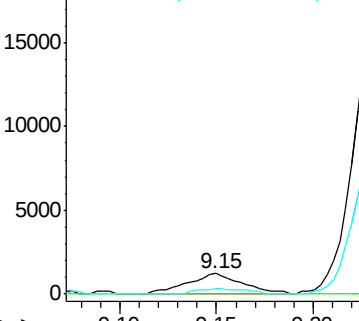
39 0.0 47.6 71.4#

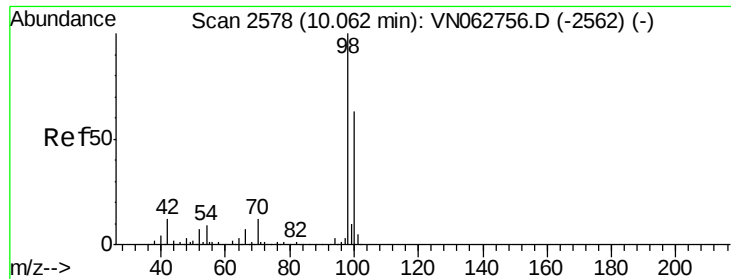


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 49.233 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062771.D

Acq: 6 Aug 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

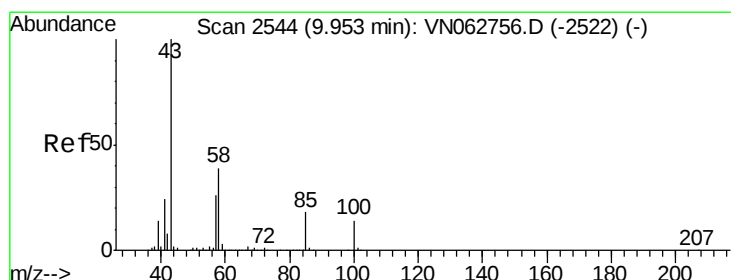
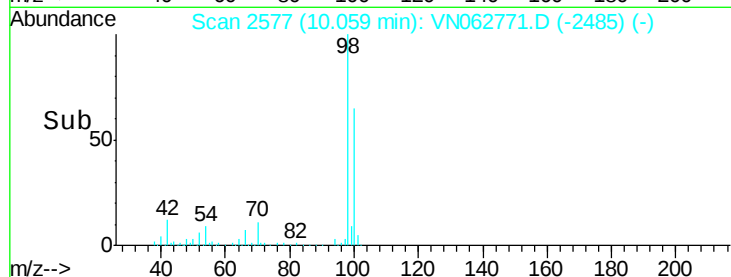
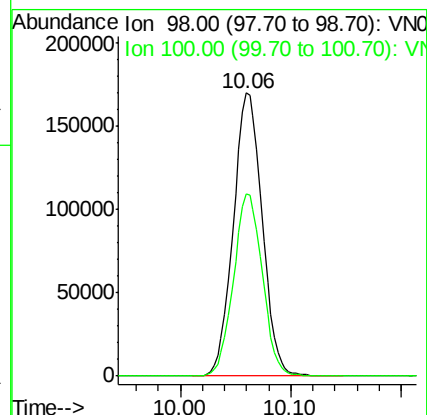
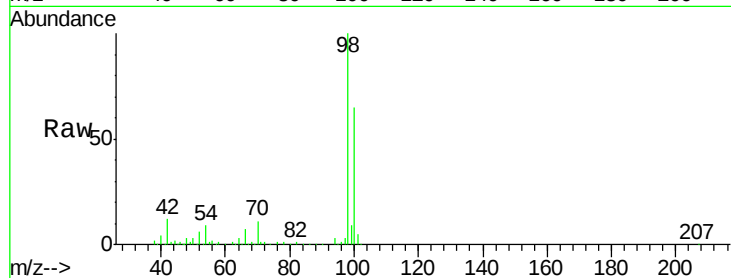
OK-03-080520

Tot Ion: 98 Resp: 309911

Ion Ratio Lower Upper

98 100

100 64.0 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 1.929 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062771.D

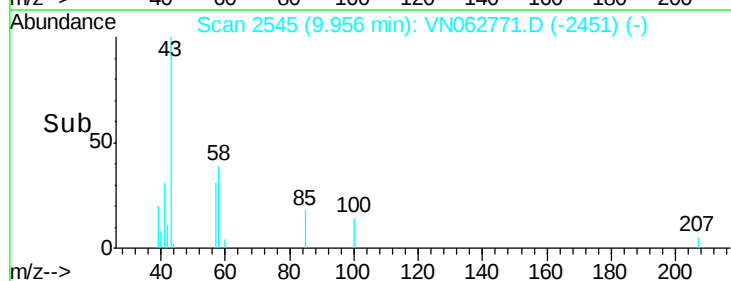
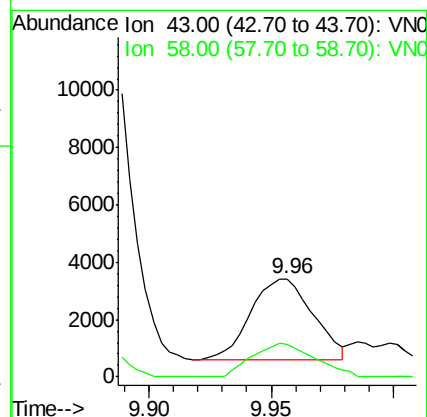
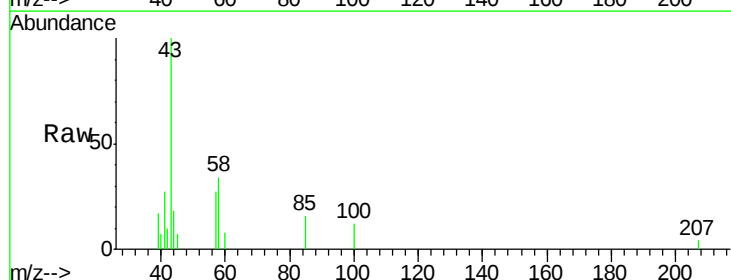
Acq: 6 Aug 2020 17:07

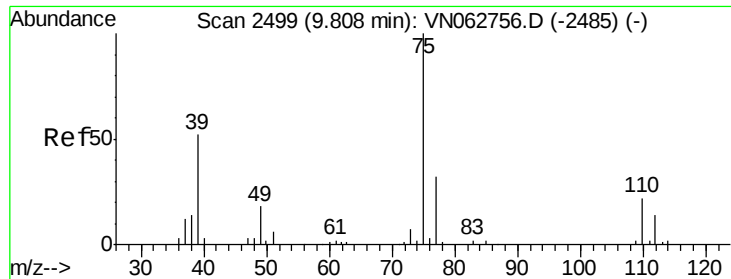
Tgt Ion: 43 Resp: 4991

Ion Ratio Lower Upper

43 100

58 41.9 31.1 46.7

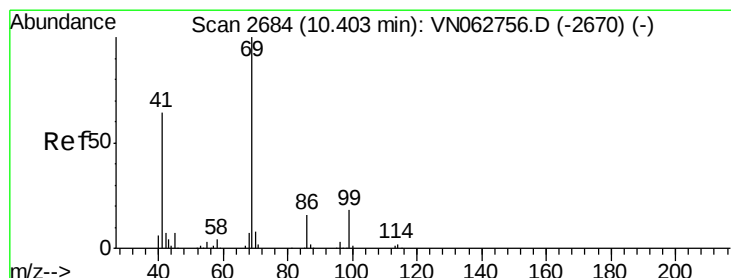
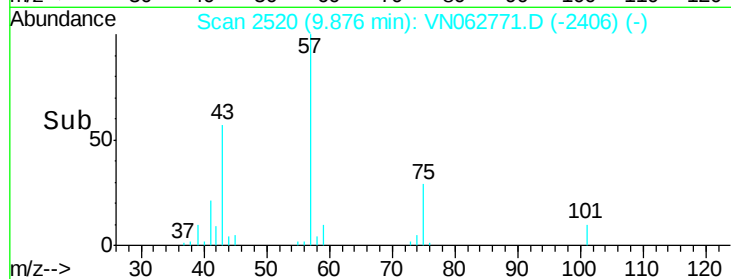
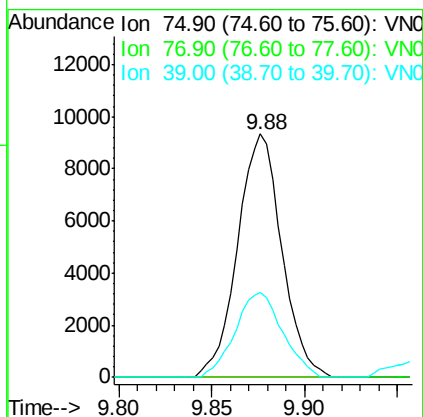
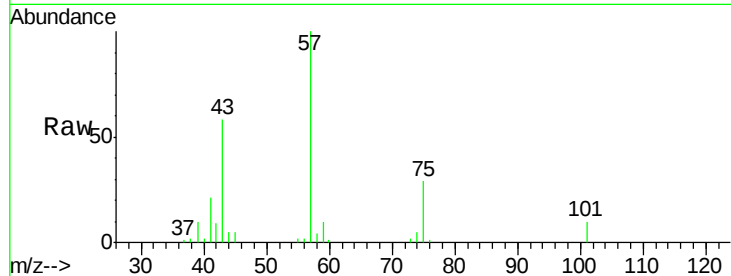




#54
 cis-1,3-Dichloropropene
 Concen: 5.142 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062771.D
 Acq: 6 Aug 2020 17:07

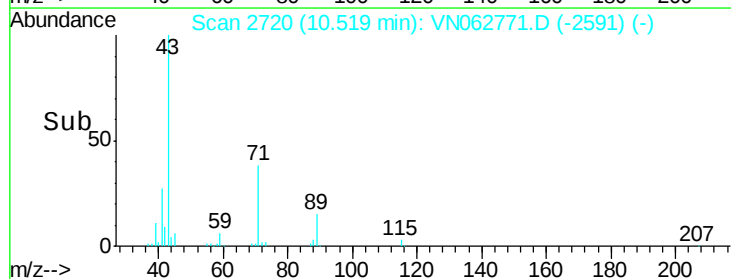
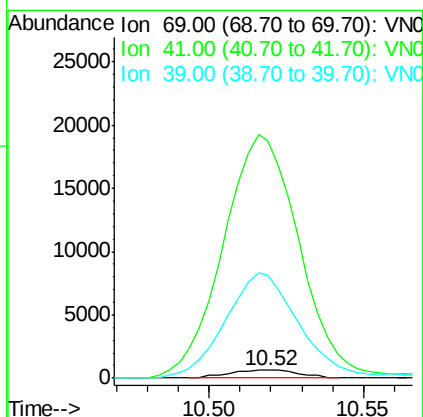
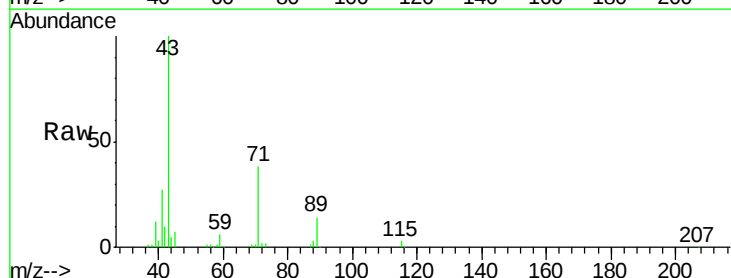
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-080520

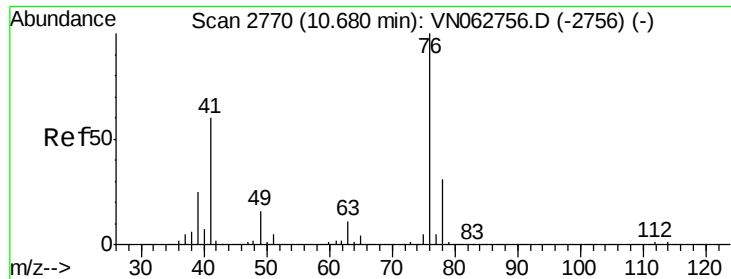
Tot Ion: 75 Resp: 15489
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 34.8 41.9 62.9#



#56
 Ethyl methacrylate
 Concen: 0.357 ug/l
 RT: 10.52 min Scan# 2720
 Delta R.T. 0.12 min
 Lab File: VN062771.D
 Acq: 6 Aug 2020 17:07

Tgt Ion: 69 Resp: 971
 Ion Ratio Lower Upper
 69 100
 41 3428.1 52.2 78.2#
 39 1423.7 30.9 46.3#

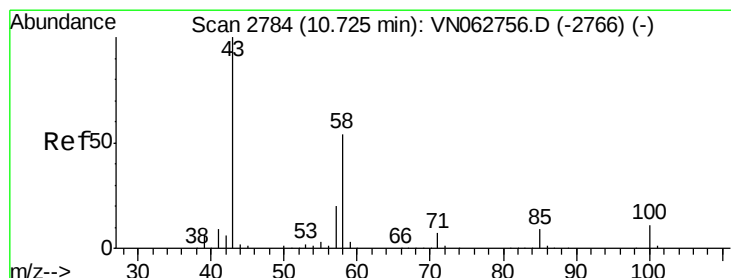
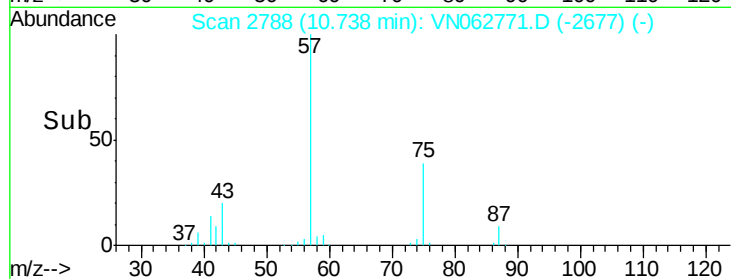
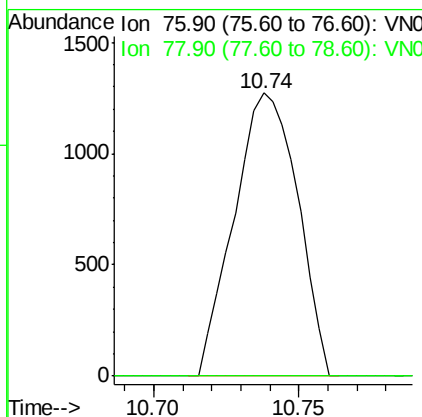
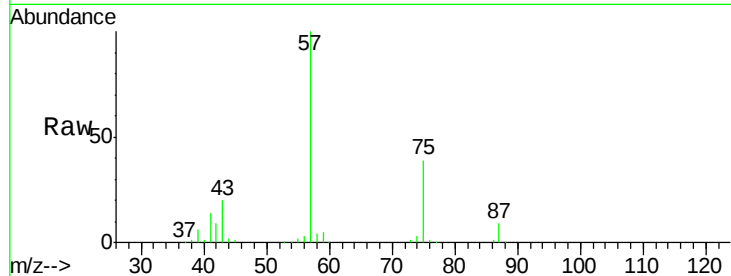




#57
 1,3-Dichloropropane
 Concen: 0.631 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN062771.D
 Acq: 6 Aug 2020 17:07

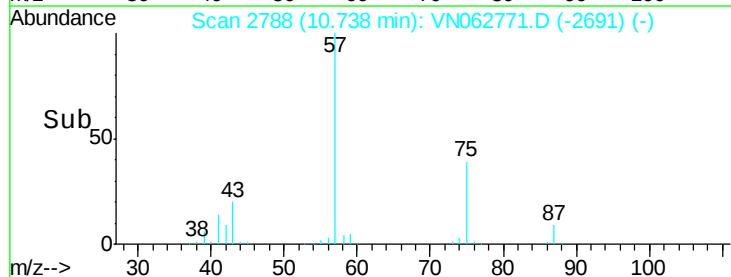
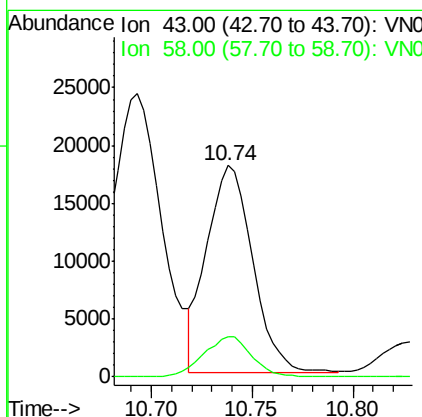
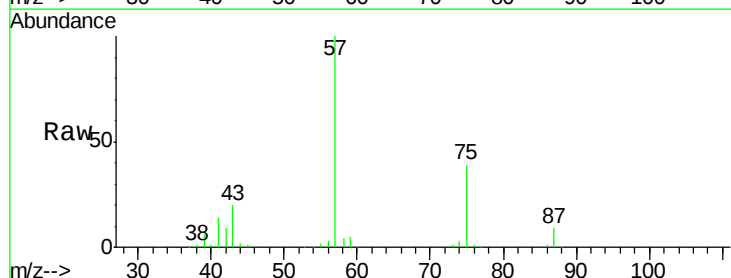
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-080520

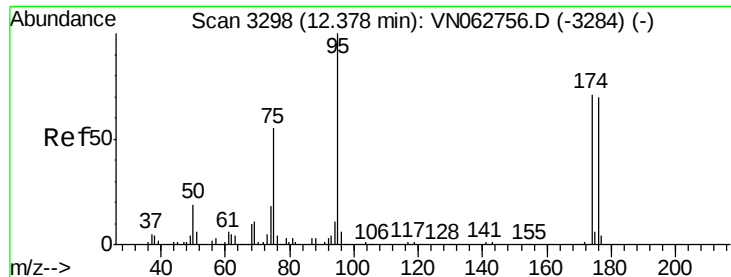
Tot Ion: 76 Resp: 1935
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#



#59
 2-Hexanone
 Concen: 14.764 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN062771.D
 Acq: 6 Aug 2020 17:07

Tgt Ion: 43 Resp: 28494
 Ion Ratio Lower Upper
 43 100
 58 20.1 26.7 80.1#

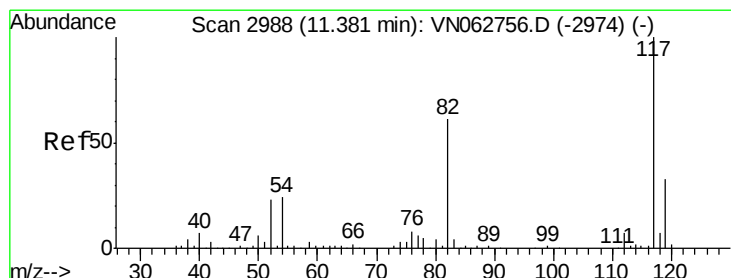
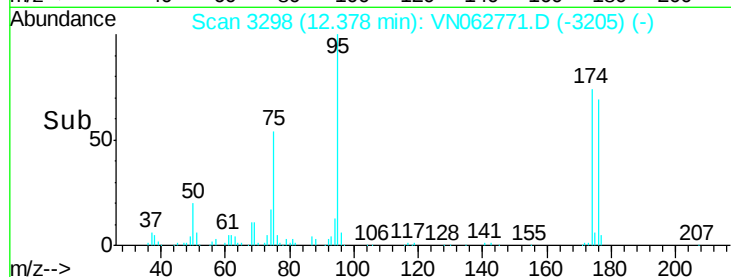
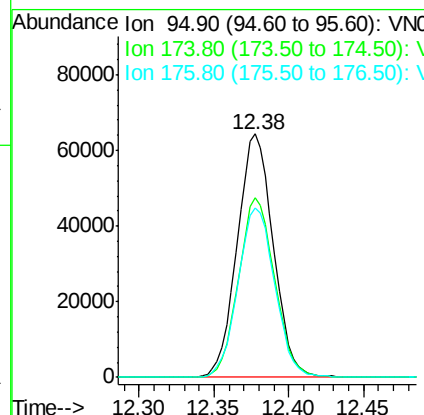
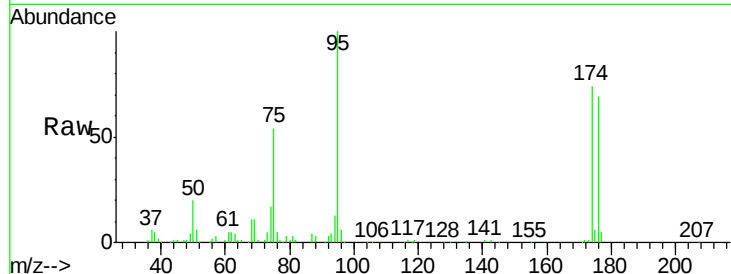




#62
4-Bromofluorobenzene
Concen: 45.486 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062771.D
Acq: 6 Aug 2020 17:07

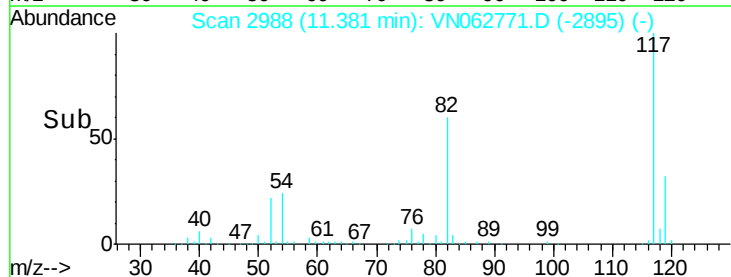
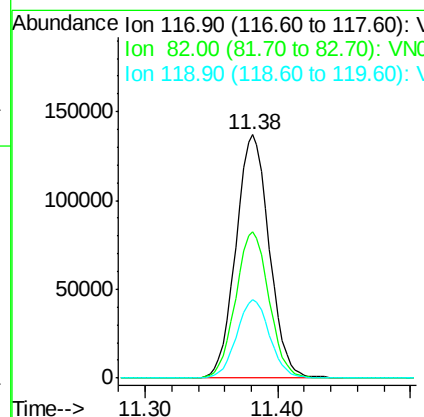
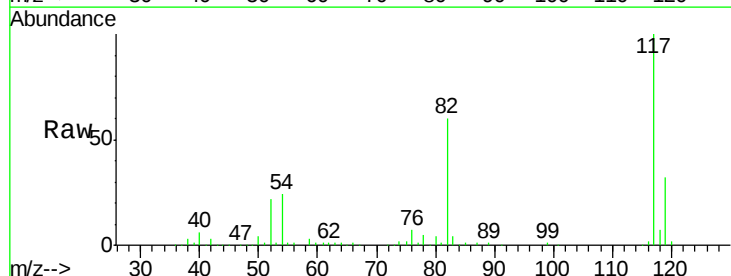
Instrument :
MSVOA_N
ClientSampleId :
OK-03-080520

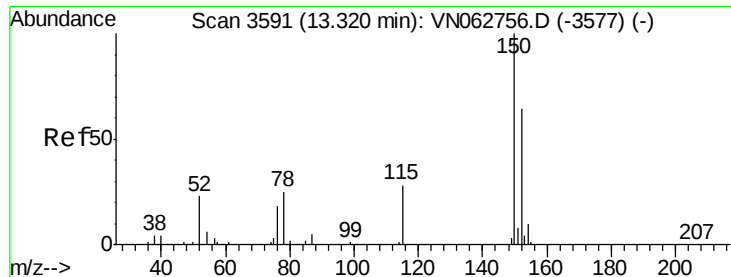
Tot Ion: 95 Resp: 108202
Ion Ratio Lower Upper
95 100
174 74.1 0.0 144.8
176 71.0 0.0 142.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062771.D
Acq: 6 Aug 2020 17:07

Tgt Ion: 117 Resp: 239231
Ion Ratio Lower Upper
117 100
82 60.3 49.0 73.4
119 32.3 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062771.D

Acq: 6 Aug 2020 17:07

Instrument :

MSVOA_N

ClientSampled :

OK-03-080520

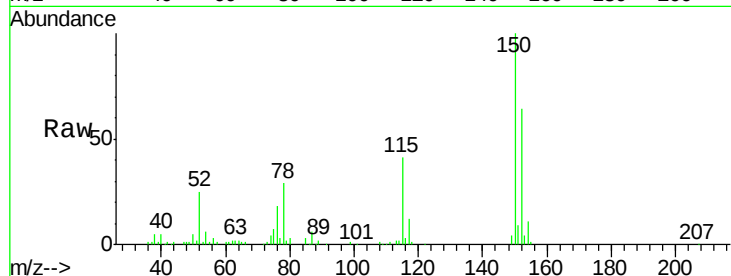
Tot Ion:152 Resp: 82450

Ion Ratio Lower Upper

152 100

115 65.3 31.6 94.8

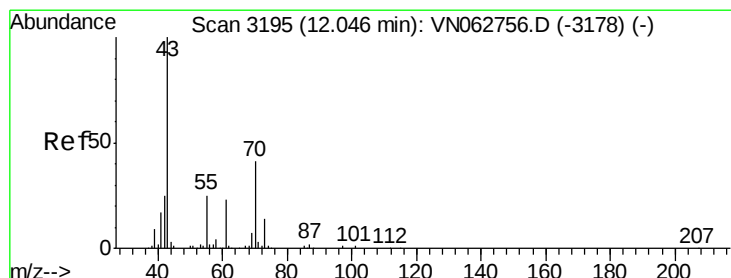
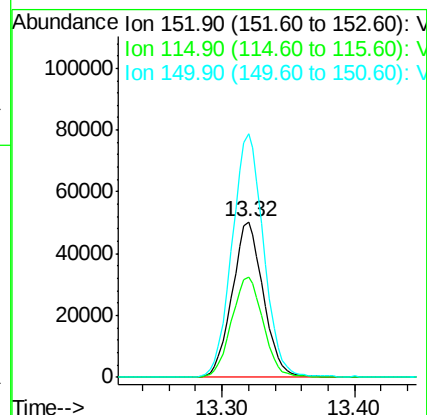
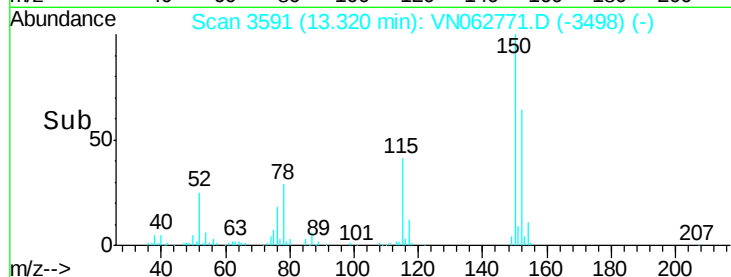
150 158.2 0.0 349.2



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: 0.697 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN062771.D

Acq: 6 Aug 2020 17:07

Tgt Ion: 43 Resp: 1753

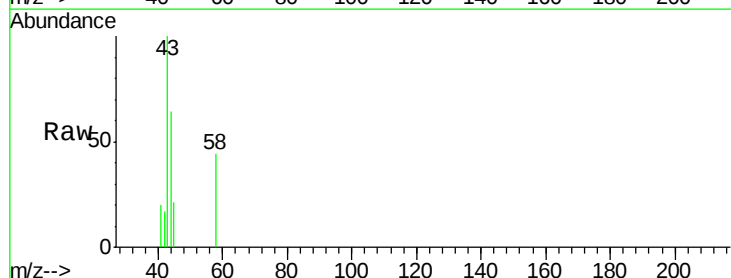
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 20.2 30.2#

61 0.0 18.2 27.4#

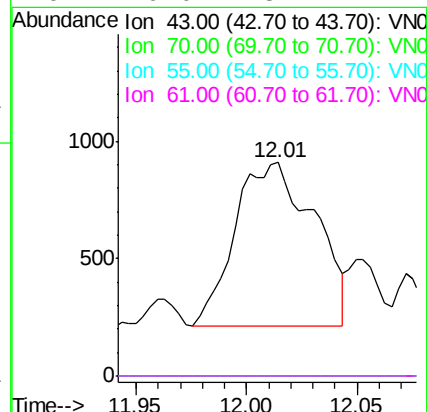
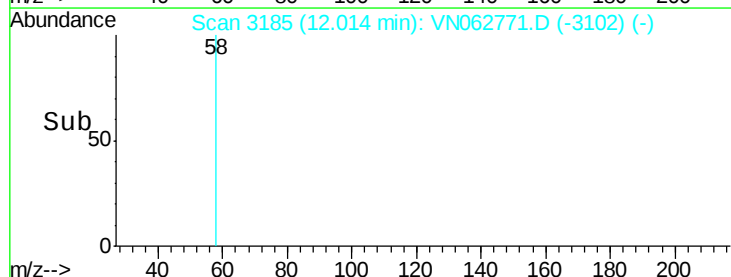


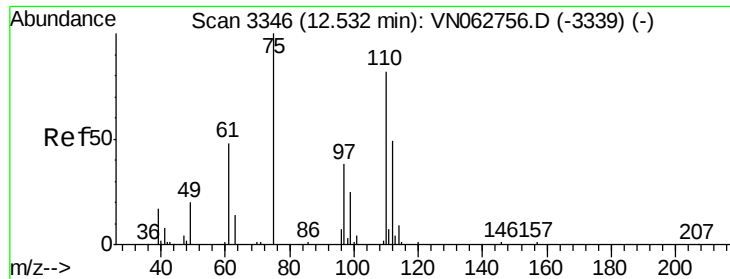
Abundance Ion 43.00 (42.70 to 43.70): V

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

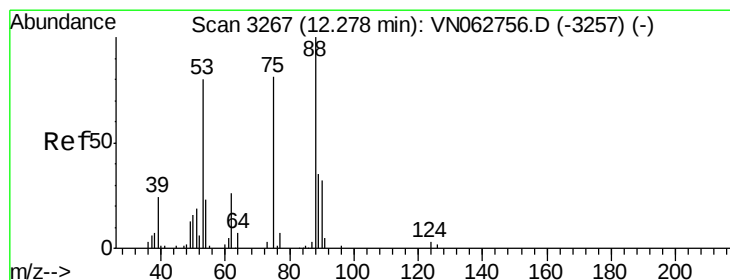
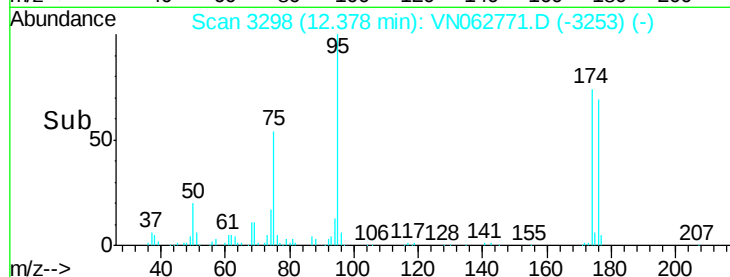
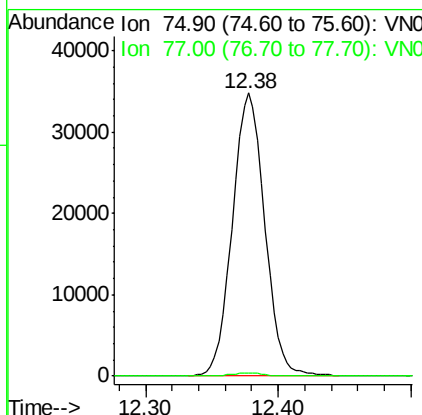
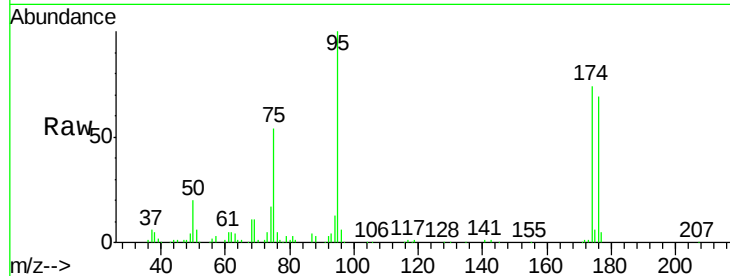




#76
 1,2,3-Trichloropropane
 Concen: 26.531 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062771.D
 Acq: 6 Aug 2020 17:07

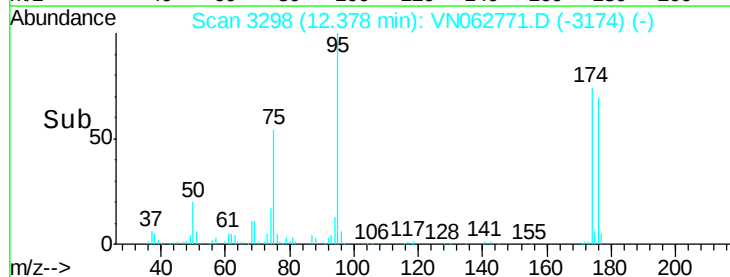
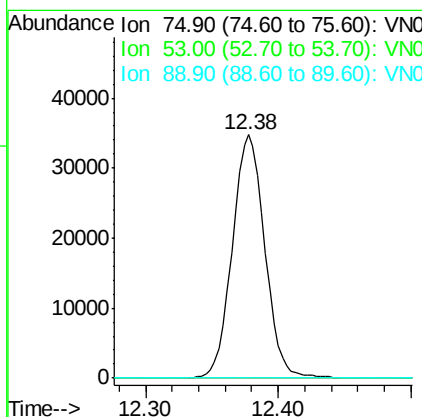
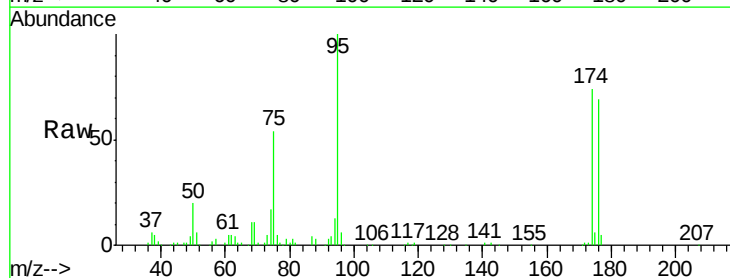
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-03-080520

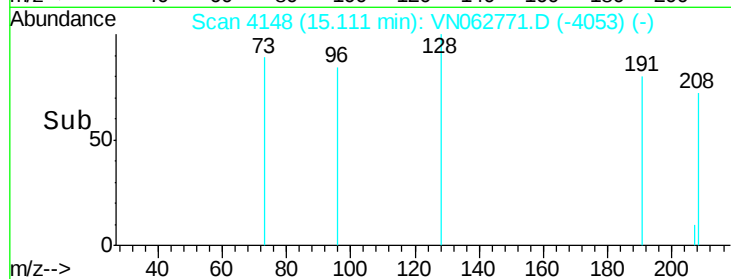
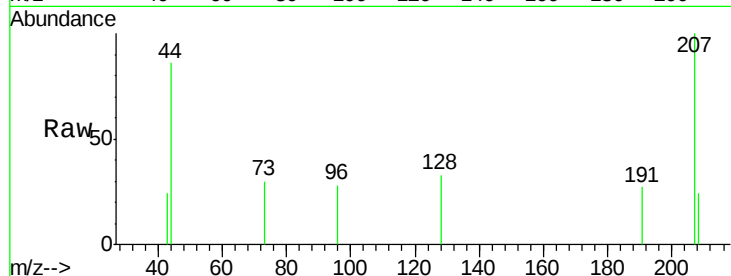
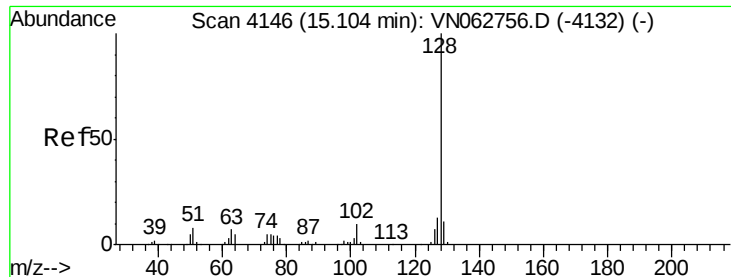
Tot Ion: 75 Resp: 58994
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.992 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062771.D
 Acq: 6 Aug 2020 17:07

Tgt Ion: 75 Resp: 58994
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.1 118.7#
 89 0.0 36.2 54.2#





#95

Naphthalene

Concen: 3.744 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062771.D

Acq: 6 Aug 2020 17:07

Instrument :

MSVOA_N

ClientSampleId :

OK-03-080520

Tot Ion:128 Resp: 147

Ion Ratio Lower Upper

128 100

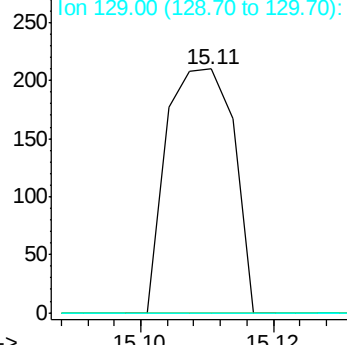
127 0.0 10.8 16.2#

129 0.0 8.8 13.2#

Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->