

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN061120\
 Data File : VN061771.D
 Acq On : 12 Jun 2020 6:04
 Operator : JC/MD
 Sample : PB129452ZHE#01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129452ZHE#01

Quant Time: Jun 12 08:45:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	295494	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	505866	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	521200	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	223277	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	167397	47.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.10%	
35) Dibromofluoromethane	7.55	113	132266	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
50) Toluene-d8	10.06	98	620184	52.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.30%	
62) 4-Bromofluorobenzene	12.38	95	214641	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	

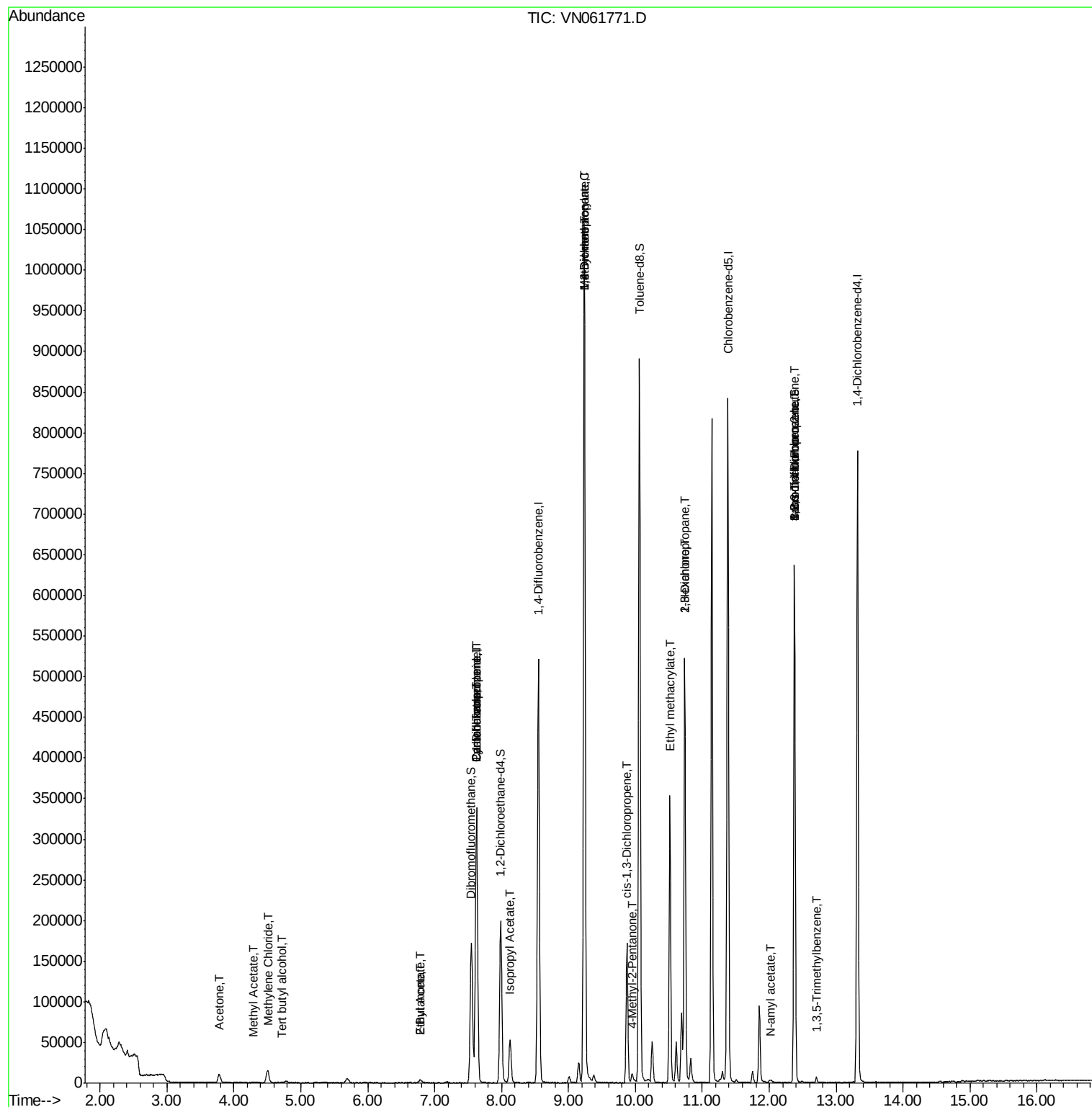
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	149	0.32	ug/l #	72
16) Acetone	3.78	43	16881	11.48	ug/l	95
18) Methyl Acetate	4.29	43	1598	0.50	ug/l #	53
20) Methylene Chloride	4.50	84	13033	2.42	ug/l #	84
25) 2-Butanone	6.80	43	3011	1.80	ug/l	96
31) Cyclohexane	7.62	56	2682	0.54	ug/l #	9
36) 1,1-Dichloropropene	7.63	75	19620	4.38	ug/l #	48
37) Ethyl Acetate	6.80	43	3011	0.83	ug/l #	66
38) Carbon Tetrachloride	7.63	117	27807	6.44	ug/l #	17
43) Isopropyl Acetate	8.12	43	60919	9.39	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1598	0.49	ug/l #	44
48) Methyl methacrylate	9.24	41	97098	33.26	ug/l #	33
49) 1,4-Dioxane	9.24	88	108	2.39	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8779	2.40	ug/l #	81
54) cis-1,3-Dichloropropene	9.87	75	35357	6.12	ug/l #	62
56) Ethyl methacrylate	10.52	69	1302	0.26	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6295	1.10	ug/l #	42
59) 2-Hexanone	10.74	43	63105	24.03	ug/l #	51
71) Bromoform	12.38	173	1694	0.54	ug/l #	1
74) N-amyl acetate	12.01	43	1787	0.35	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	104500	25.74	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3966	0.29	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	104500	65.82	ug/l #	15

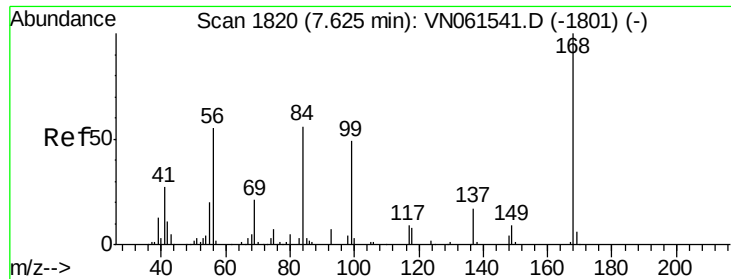
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

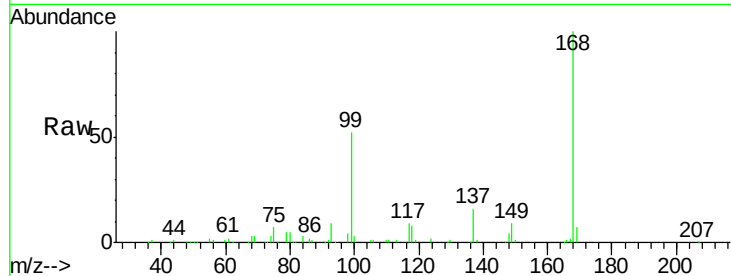
PB129452ZHE#01

Tgt Ion: 168 Resp: 295494

Ion Ratio Lower Upper

168 100

99 52.5 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): VN061771.D (-1727) (-)

Ion 98.90 (98.60 to 99.60): VN061771.D (-1727) (-)

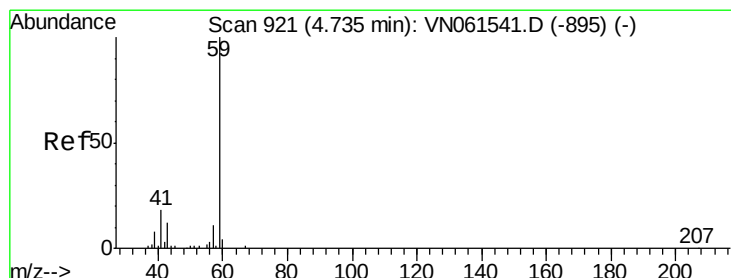
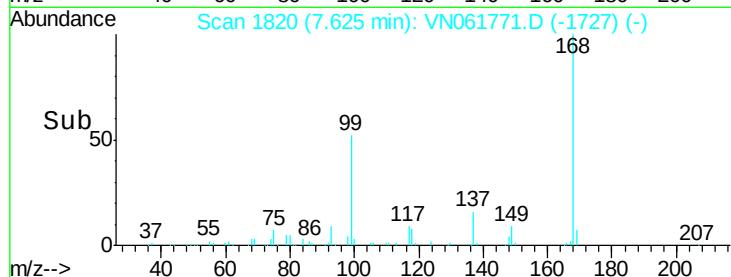
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.32 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.01 min

Lab File: VN061771.D

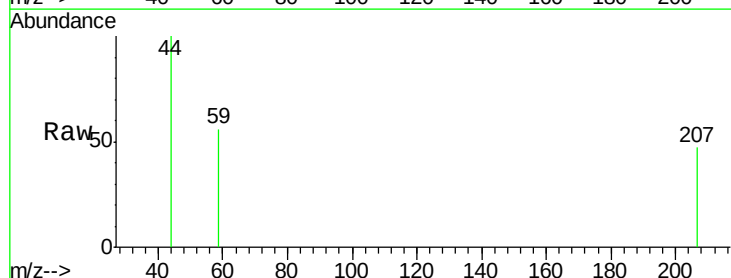
Acq: 12 Jun 2020 6:04

Tgt Ion: 59 Resp: 149

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN061771.D (-828) (-)

Ion 57.00 (56.70 to 57.70): VN061771.D (-828) (-)

4.73

250

200

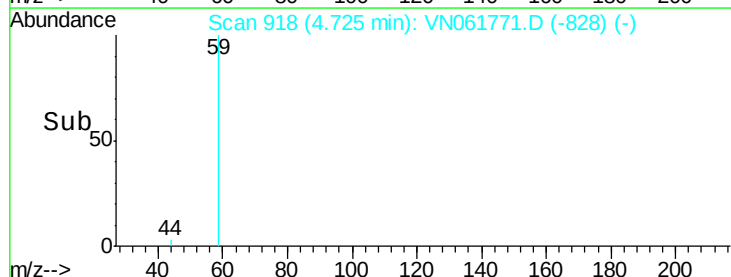
150

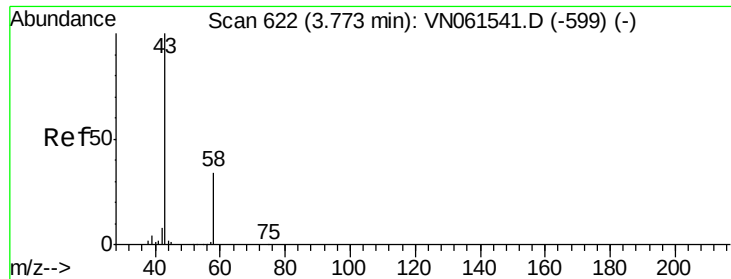
100

50

0

Time--> 4.71 4.72 4.73 4.74





#16

Acetone

Concen: 11.48 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

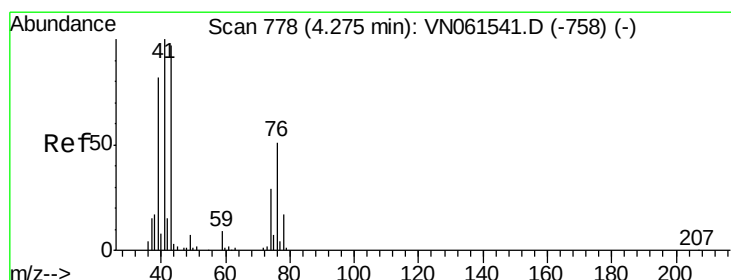
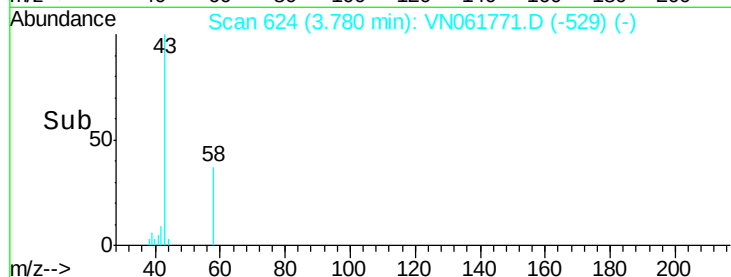
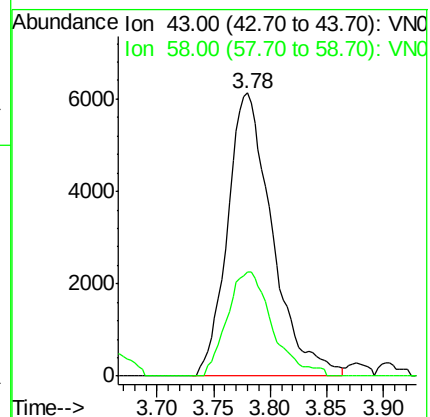
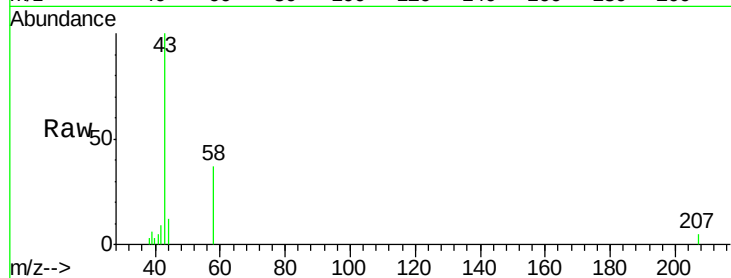
PB129452ZHE#01

Tgt Ion: 43 Resp: 16881

Ion Ratio Lower Upper

43 100

58 37.0 27.2 40.8



#18

Methyl Acetate

Concen: 0.50 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.02 min

Lab File: VN061771.D

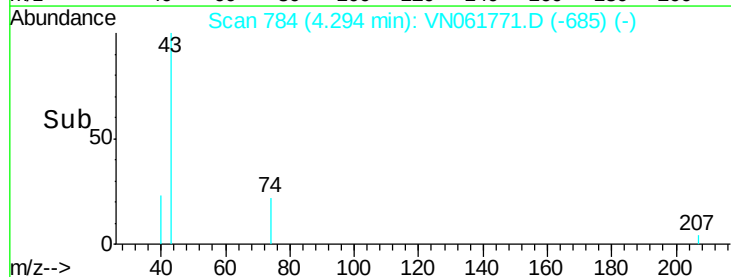
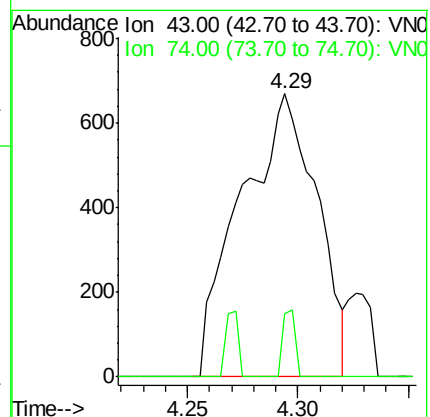
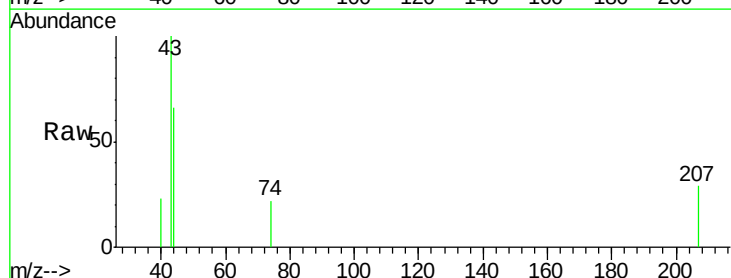
Acq: 12 Jun 2020 6:04

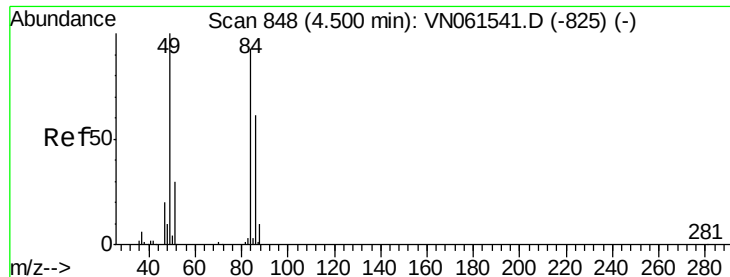
Tgt Ion: 43 Resp: 1598

Ion Ratio Lower Upper

43 100

74 3.8 23.2 34.8#





#20

Methylene Chloride

Concen: 2.42 ug/l

RT: 4.50 min Scan# 848

Delta R.T. 0.00 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#01

Tgt Ion: 84 Resp: 13033

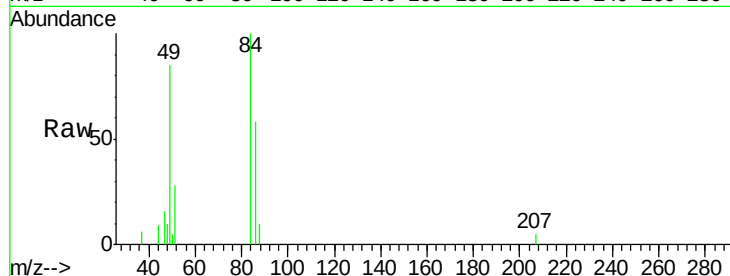
Ion Ratio Lower Upper

84 100

49 84.5 85.8 128.8#

51 27.6 26.2 39.2

86 58.0 52.6 78.8

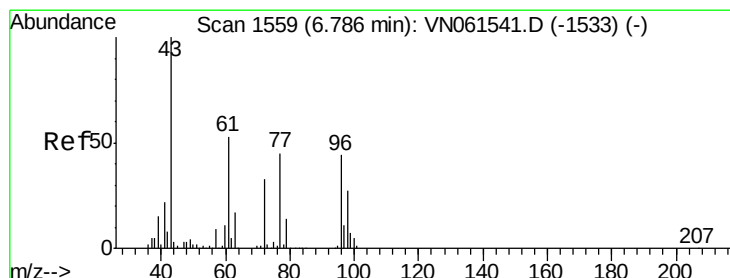
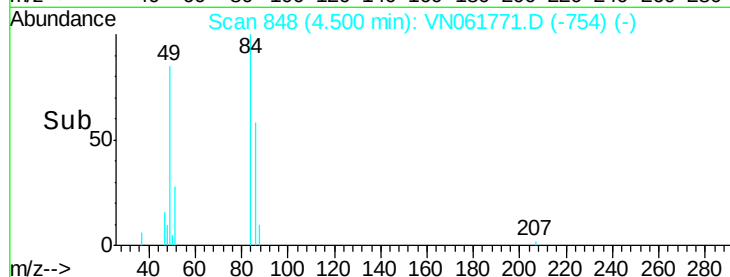
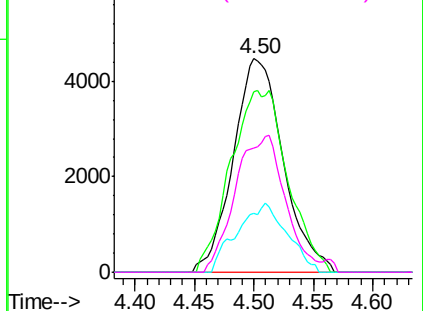


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 1.80 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VN061771.D

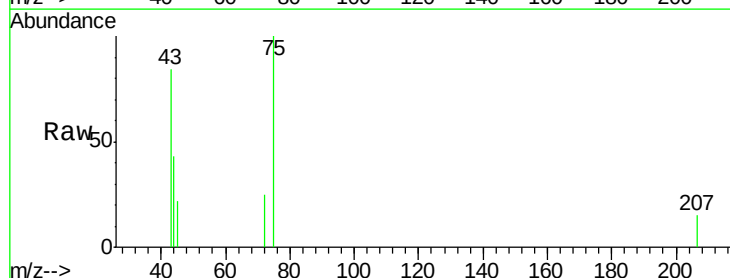
Acq: 12 Jun 2020 6:04

Tgt Ion: 43 Resp: 3011

Ion Ratio Lower Upper

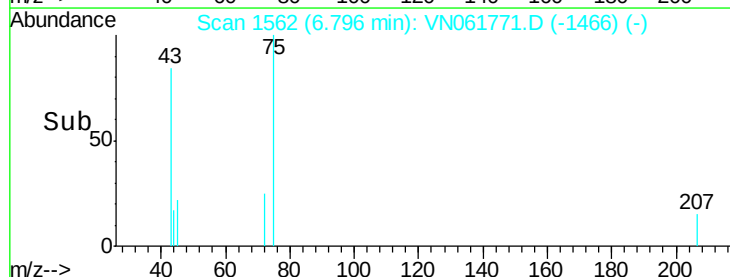
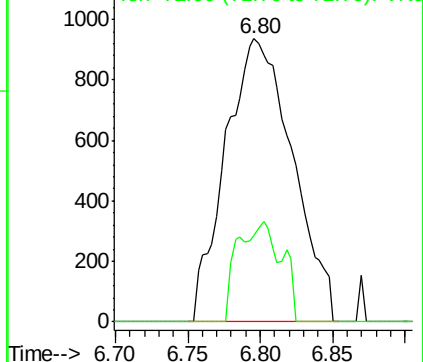
43 100

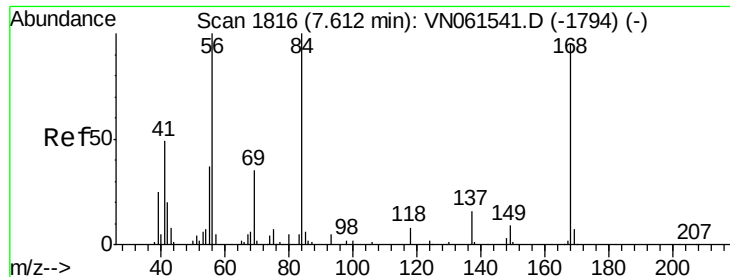
72 30.4 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 0.54 ug/l

RT: 7.62 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#01

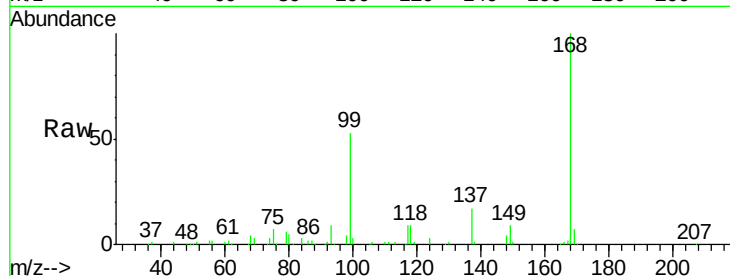
Tgt Ion: 56 Resp: 2682

Ion Ratio Lower Upper

56 100

69 170.6 27.8 41.8#

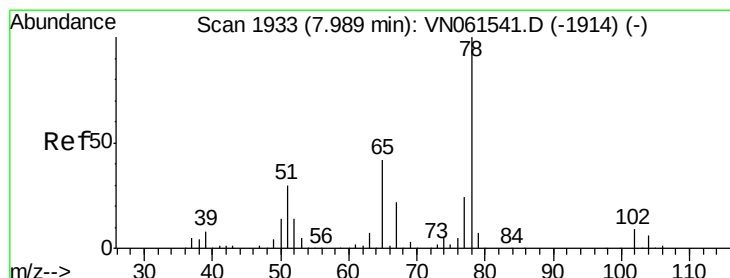
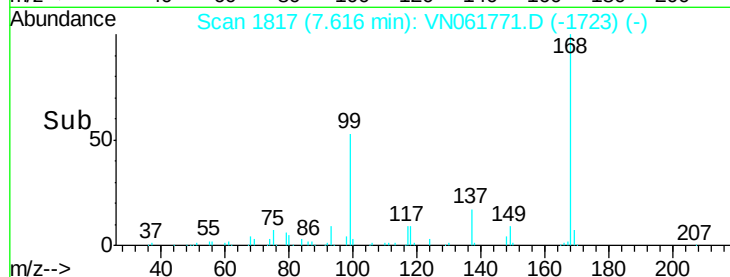
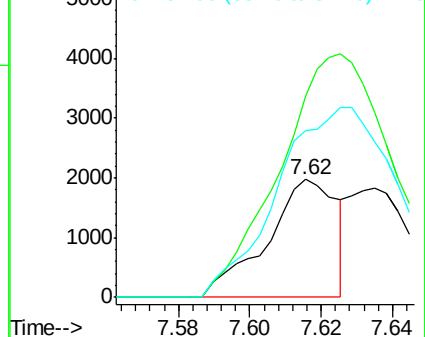
84 141.2 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 47.55 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN061771.D

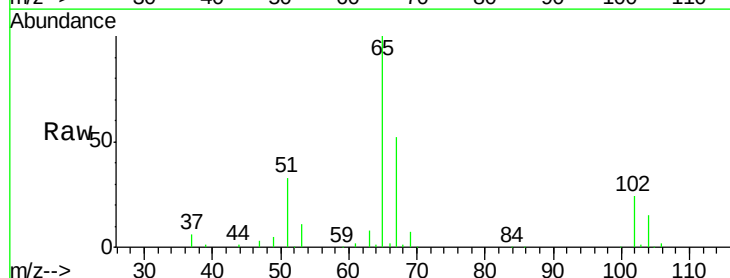
Acq: 12 Jun 2020 6:04

Tgt Ion: 65 Resp: 167397

Ion Ratio Lower Upper

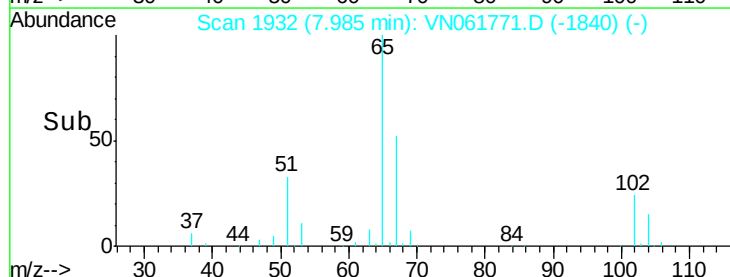
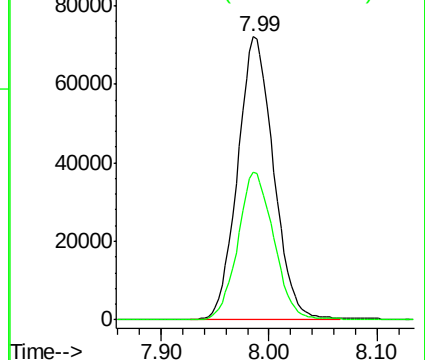
65 100

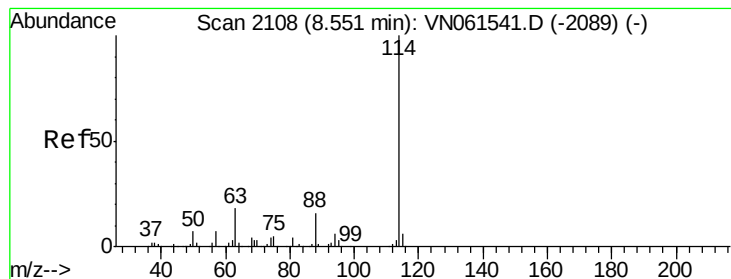
67 52.0 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. 0.00 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

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ClientSampleId :

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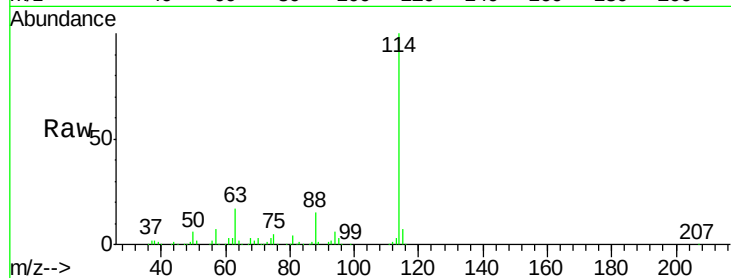
Tgt Ion:114 Resp: 505866

Ion Ratio Lower Upper

114 100

63 17.0 0.0 35.8

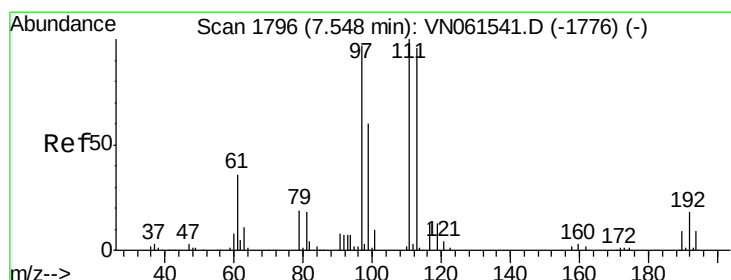
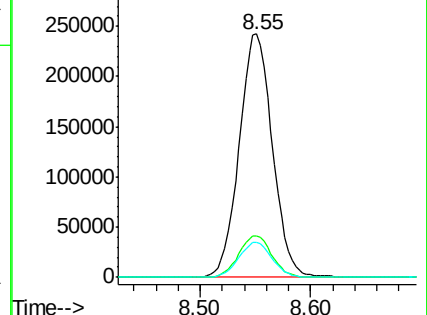
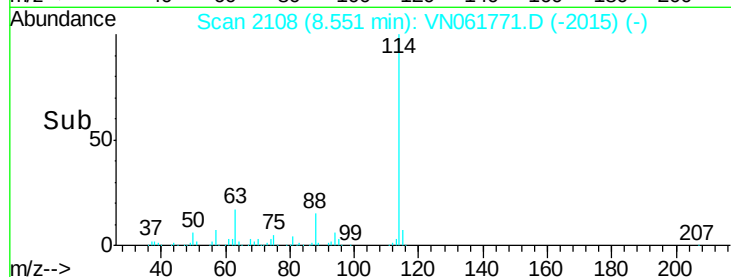
88 14.5 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 51.54 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

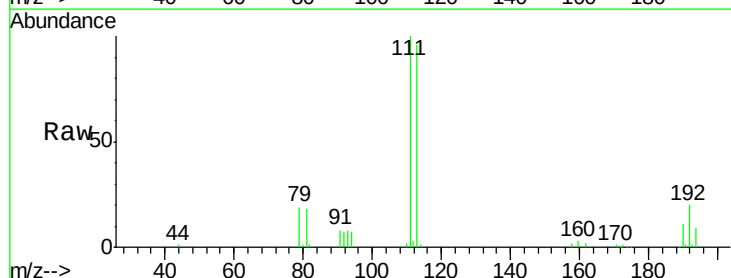
Tgt Ion:113 Resp: 132266

Ion Ratio Lower Upper

113 100

111 103.5 83.4 125.0

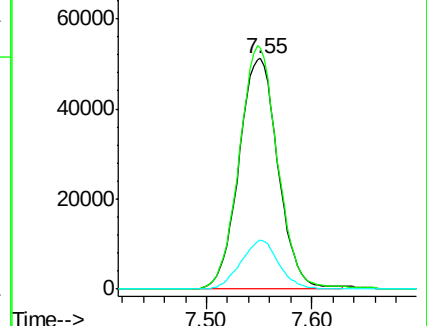
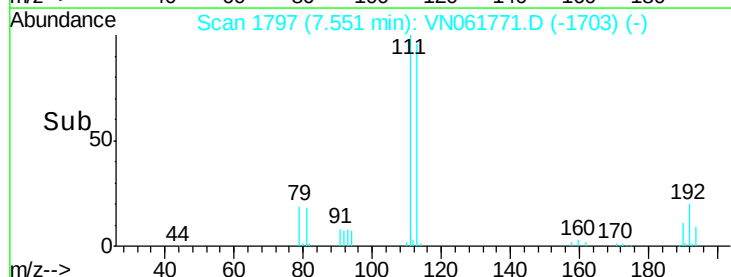
192 20.5 15.4 23.2

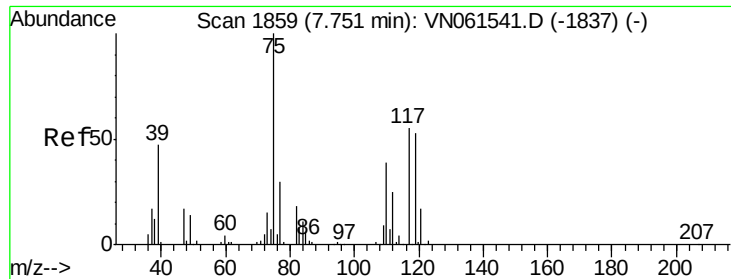


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

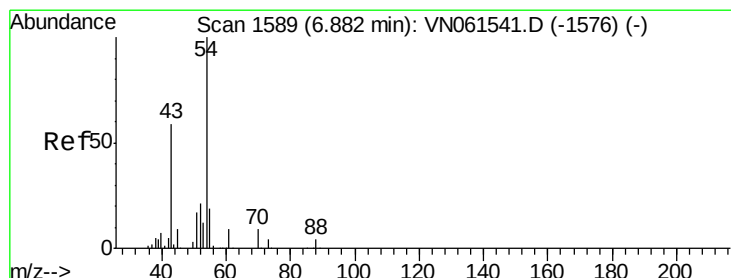
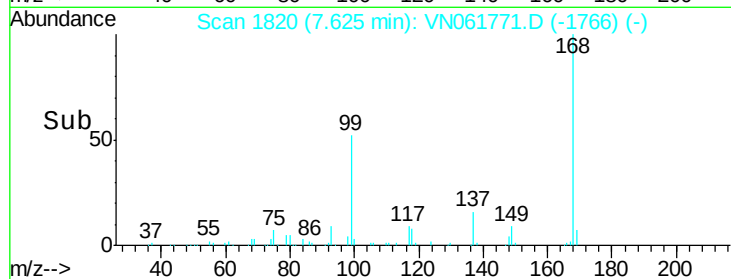
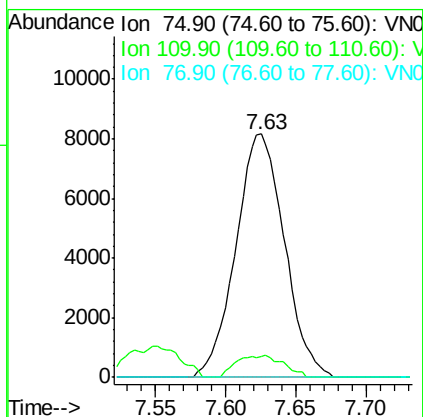
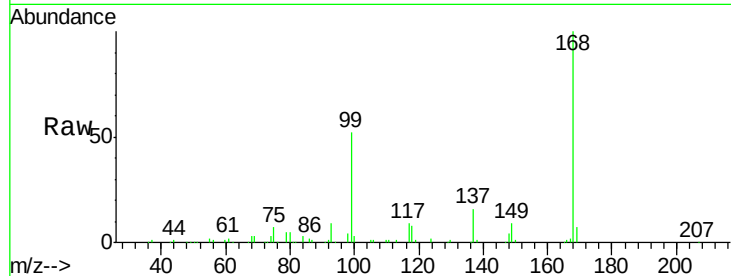




#36
 1,1-Dichloropropene
 Concen: 4.38 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061771.D
 Acq: 12 Jun 2020 6:04

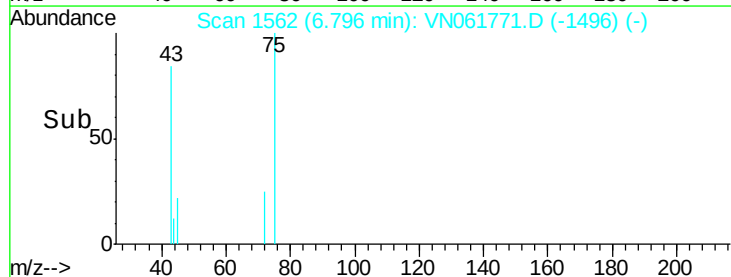
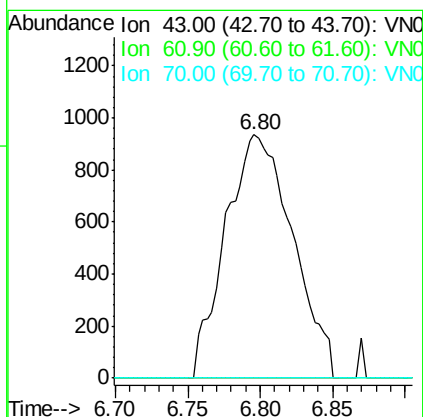
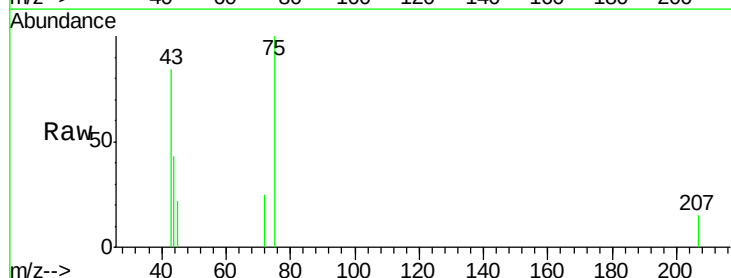
Instrument :
 MSVOA_N
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 PB129452ZHE#01

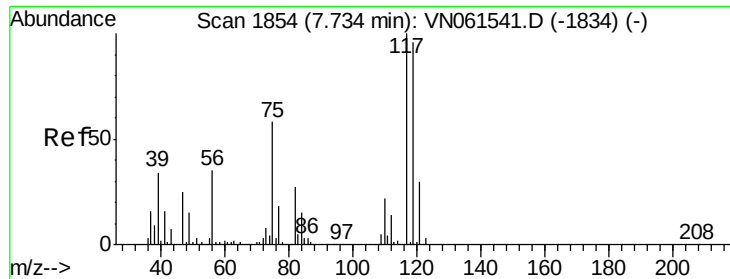
Tgt Ion: 75 Resp: 19620
 Ion Ratio Lower Upper
 75 100
 110 8.8 19.5 58.5#
 77 0.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 0.83 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.09 min
 Lab File: VN061771.D
 Acq: 12 Jun 2020 6:04

Tgt Ion: 43 Resp: 3011
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.2 18.4#
 70 0.0 9.4 14.2#





#38

Carbon Tetrachloride

Concen: 6.44 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#01

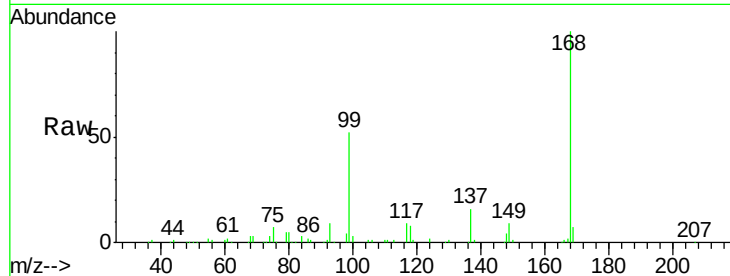
Tgt Ion:117 Resp: 27807

Ion Ratio Lower Upper

117 100

119 6.6 76.5 114.7#

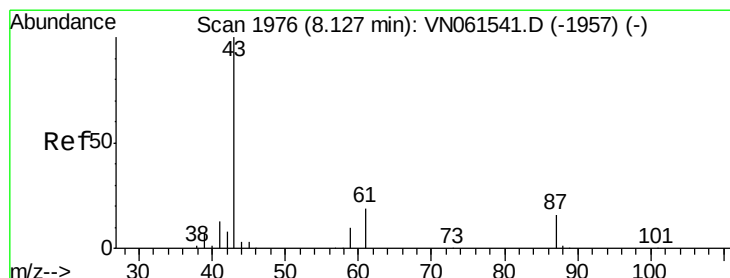
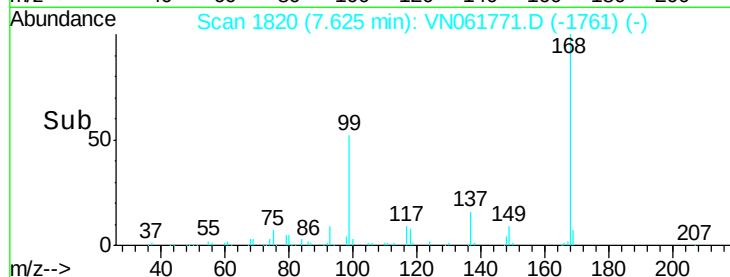
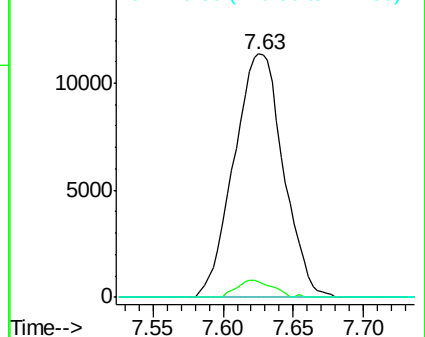
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 9.39 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

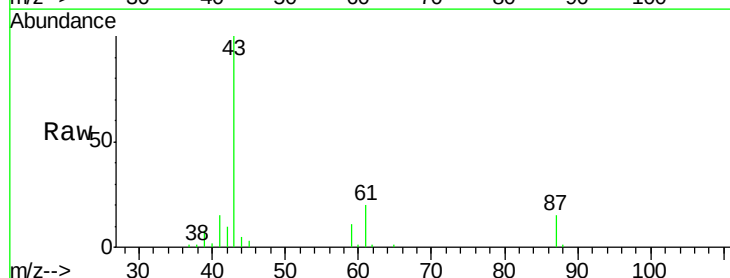
Tgt Ion: 43 Resp: 60919

Ion Ratio Lower Upper

43 100

61 22.0 23.6 35.4#

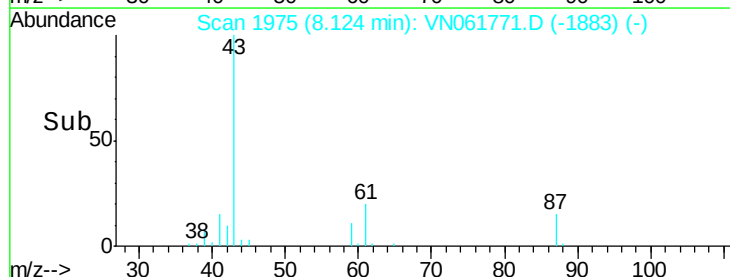
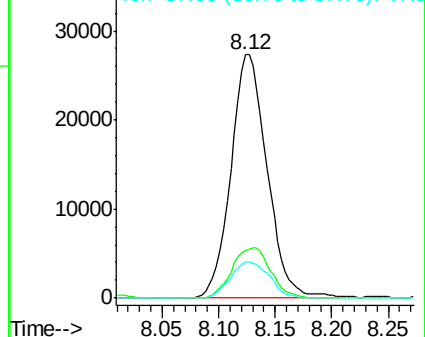
87 16.0 13.0 19.6

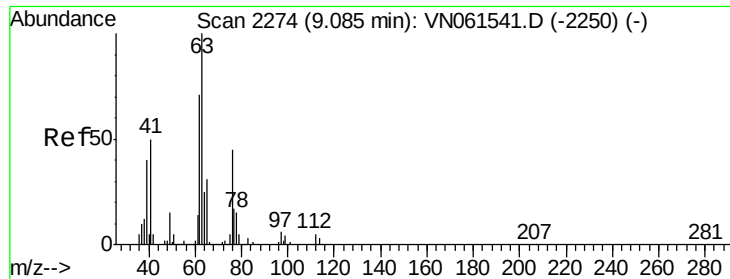


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

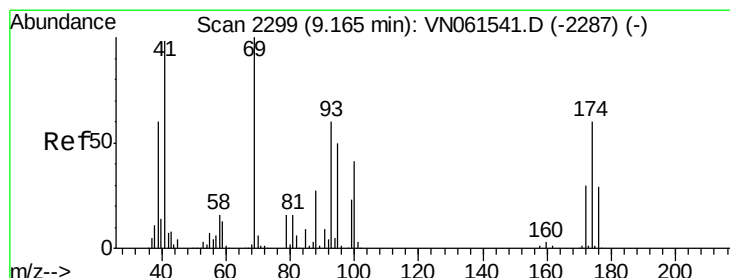
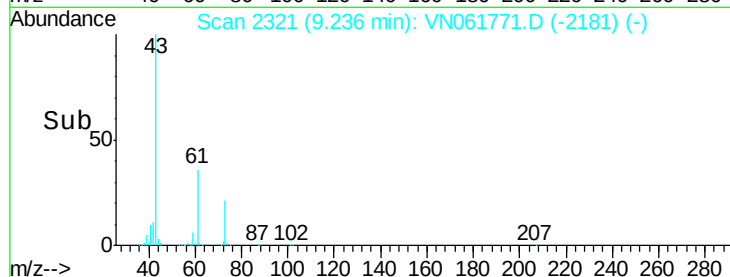
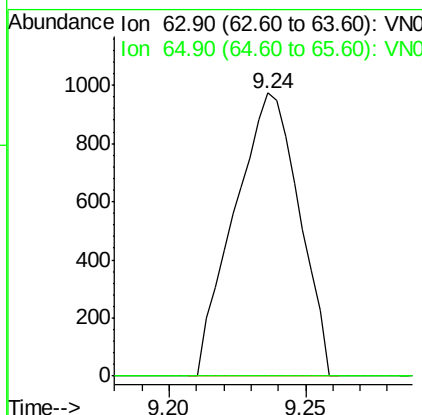
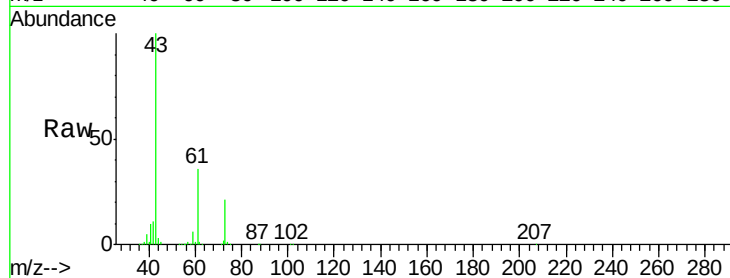




#45
 1,2-Dichloropropane
 Concen: 0.49 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.15 min
 Lab File: VN061771.D
 Acq: 12 Jun 2020 6:04

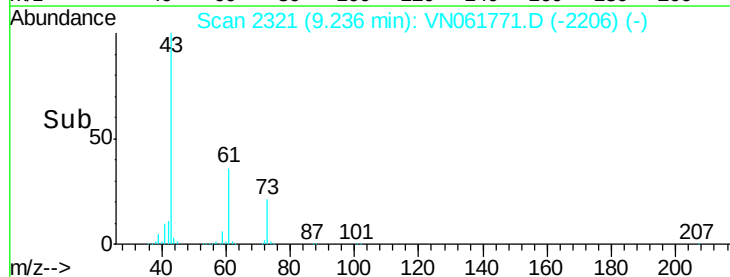
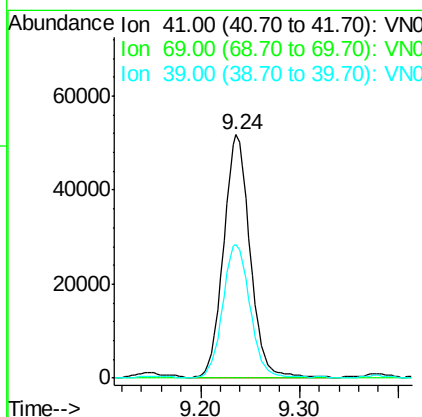
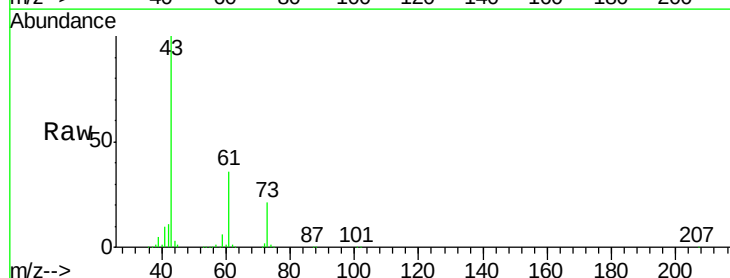
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129452ZHE#01

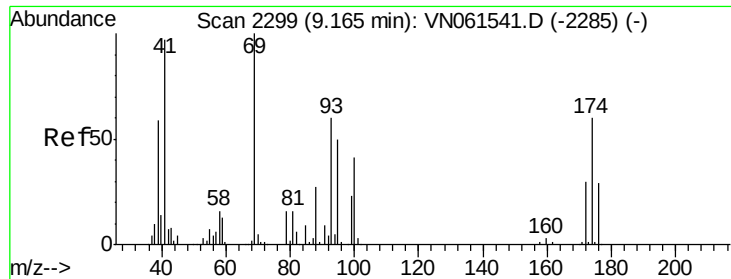
Tgt Ion: 63 Resp: 1598
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.7 37.1#



#48
 Methyl methacrylate
 Concen: 33.26 ug/l
 RT: 9.24 min Scan# 2321
 Delta R.T. 0.07 min
 Lab File: VN061771.D
 Acq: 12 Jun 2020 6:04

Tgt Ion: 41 Resp: 97098
 Ion Ratio Lower Upper
 41 100
 69 0.1 83.9 125.9#
 39 57.1 52.1 78.1





#49

1,4-Dioxane

Concen: 2.39 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.07 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#01

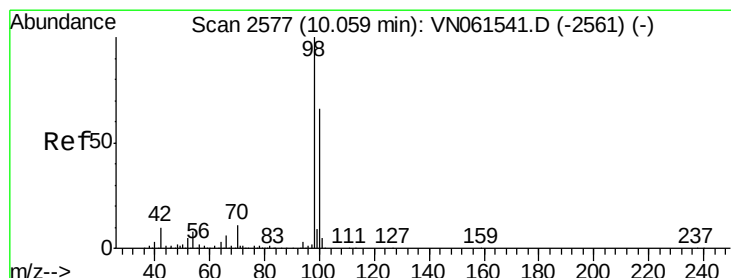
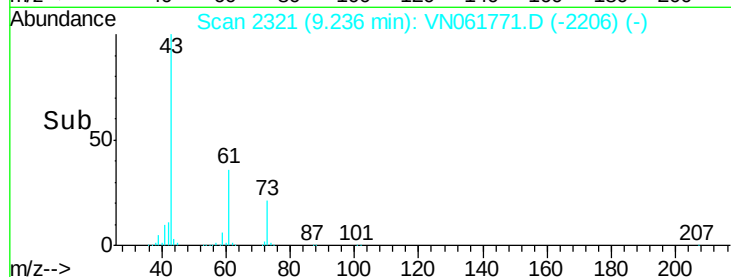
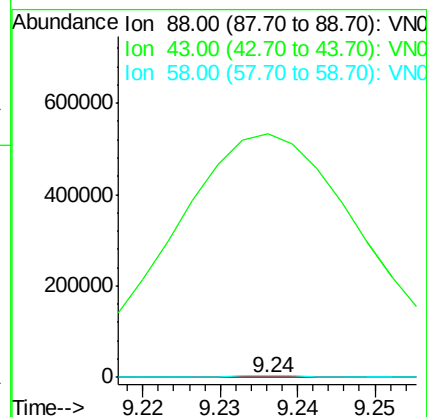
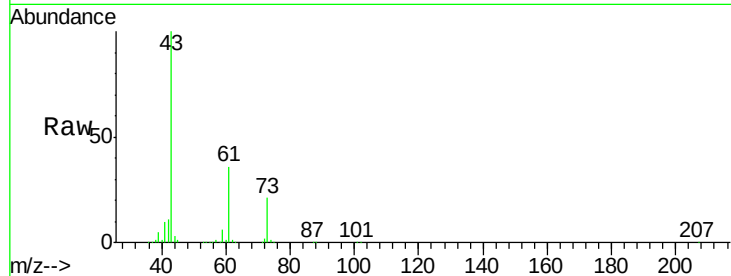
Tgt Ion: 88 Resp: 108

Ion Ratio Lower Upper

88 100

43 914686.1 23.1 34.7#

58 4538.0 48.3 72.5#



#50

Toluene-d8

Concen: 52.15 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061771.D

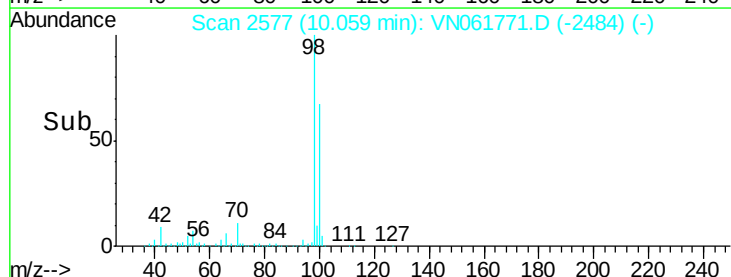
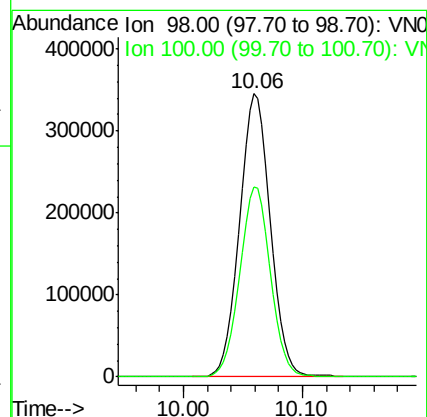
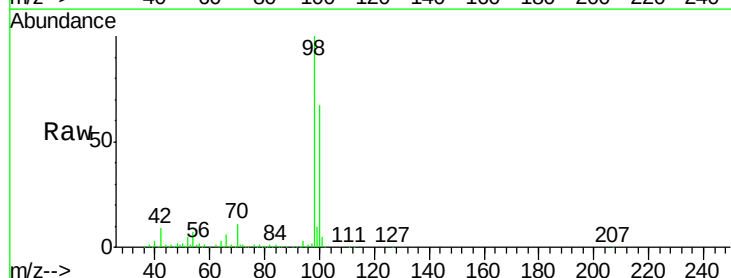
Acq: 12 Jun 2020 6:04

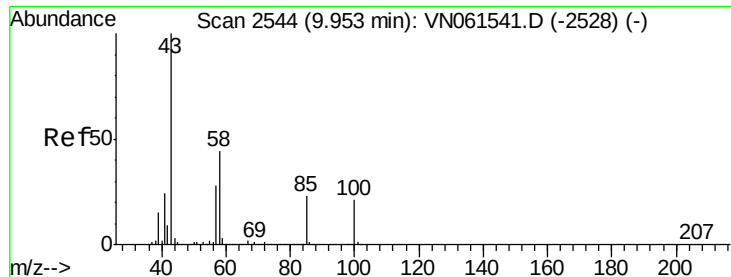
Tgt Ion: 98 Resp: 620184

Ion Ratio Lower Upper

98 100

100 67.1 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 2.40 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

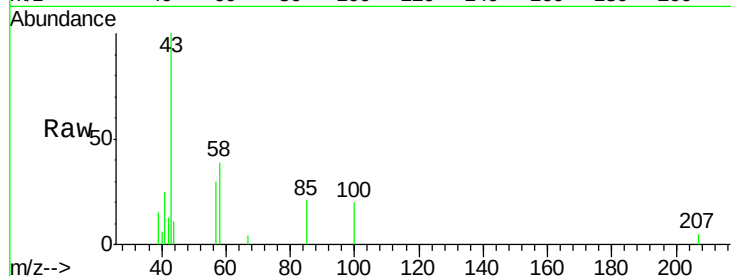
PB129452ZHE#01

Tgt Ion: 43 Resp: 8779

Ion Ratio Lower Upper

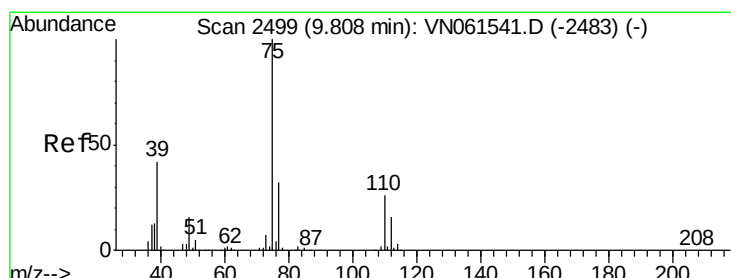
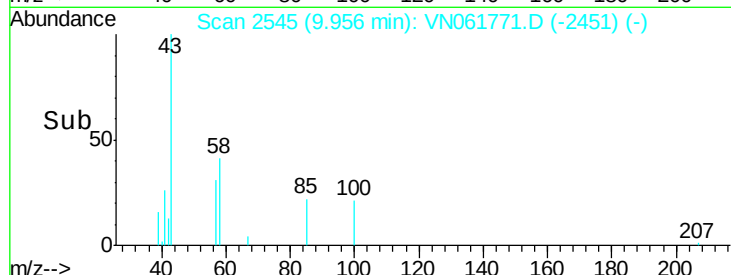
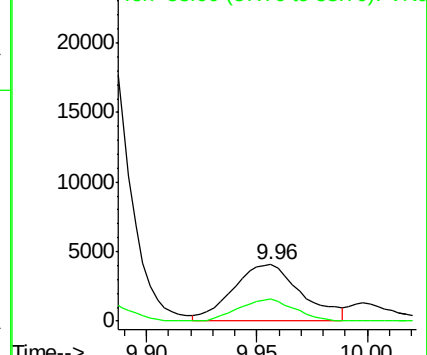
43 100

58 31.6 35.0 52.6#



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: 6.12 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

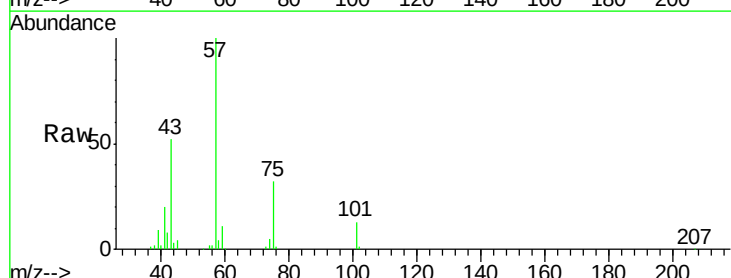
Tgt Ion: 75 Resp: 35357

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#

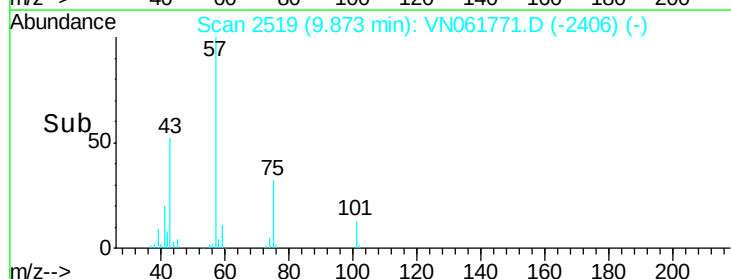
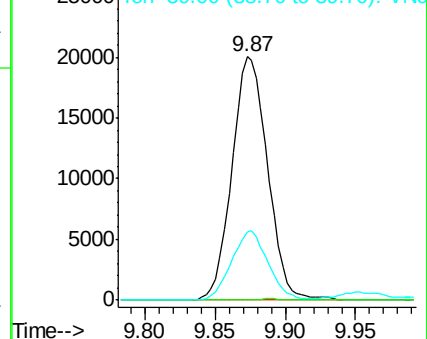
39 27.8 33.8 50.6#

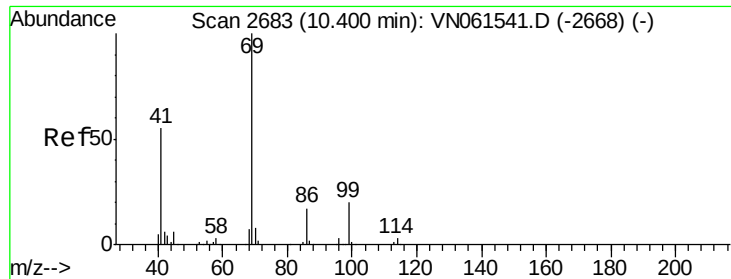


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 0.26 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#01

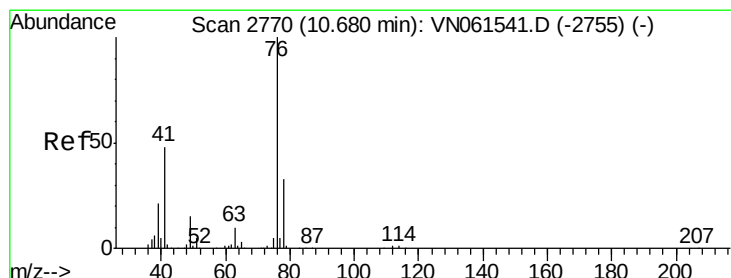
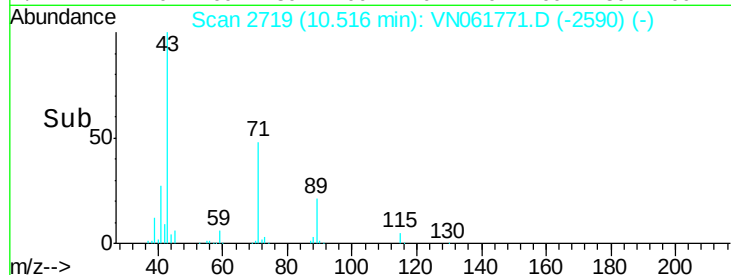
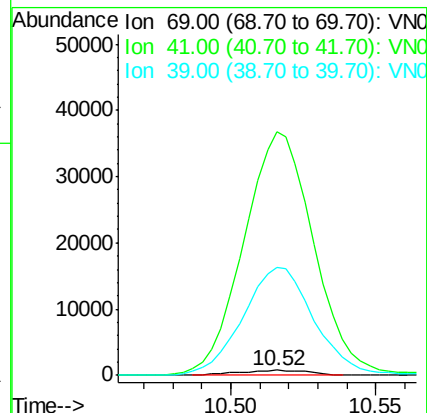
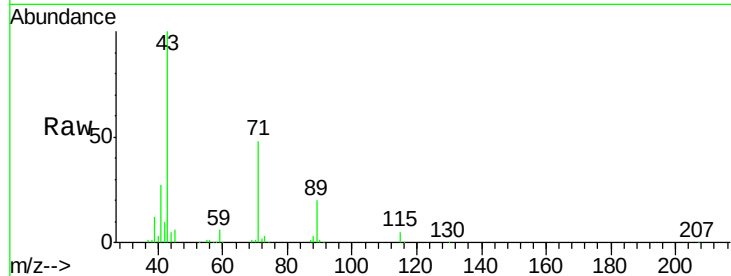
Tgt Ion: 69 Resp: 1302

Ion Ratio Lower Upper

69 100

41 4754.1 43.5 65.3#

39 2146.1 27.0 40.6#



#57

1,3-Dichloropropane

Concen: 1.10 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061771.D

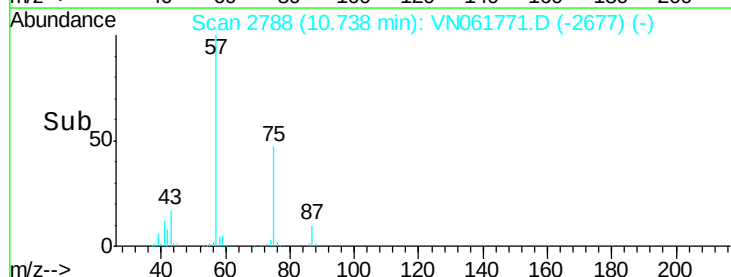
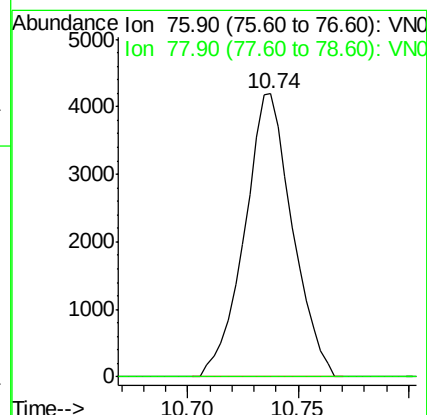
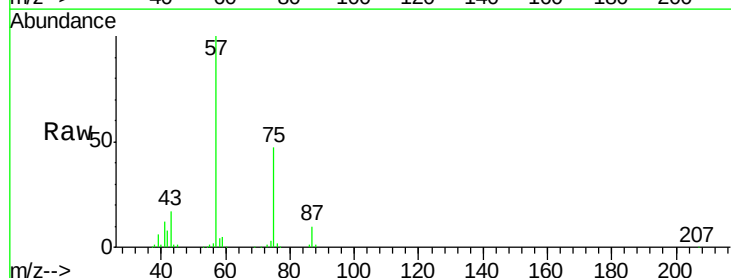
Acq: 12 Jun 2020 6:04

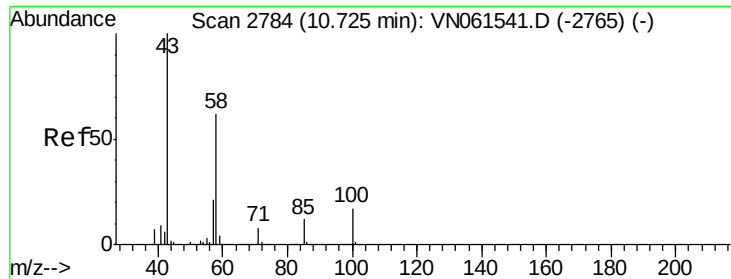
Tgt Ion: 76 Resp: 6295

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#

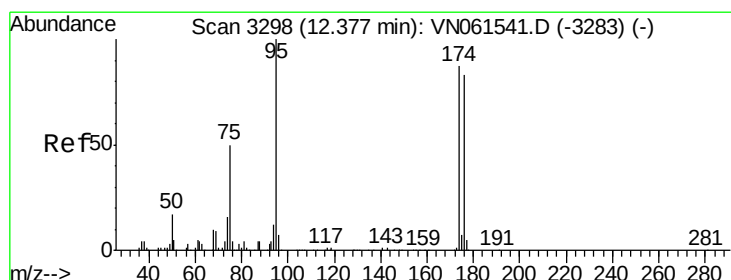
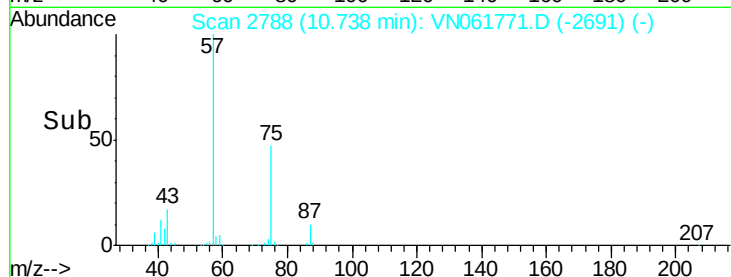
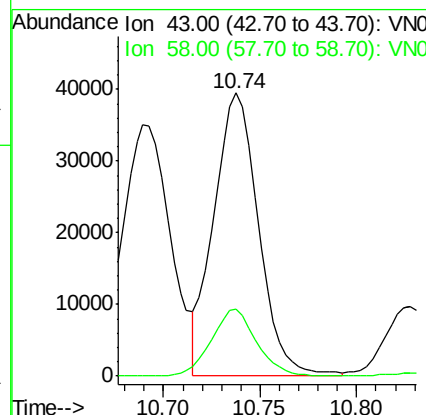
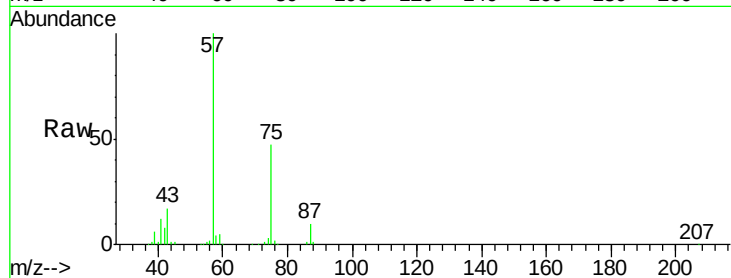




#59
2-Hexanone
Concen: 24.03 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN061771.D
Acq: 12 Jun 2020 6:04

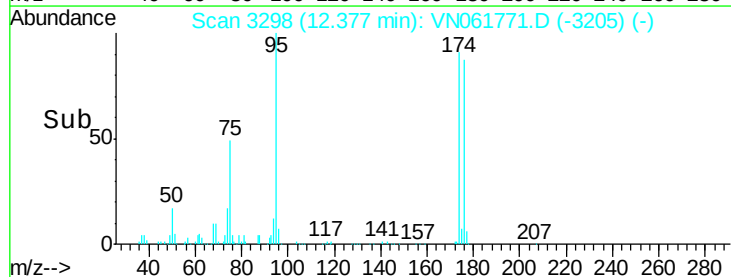
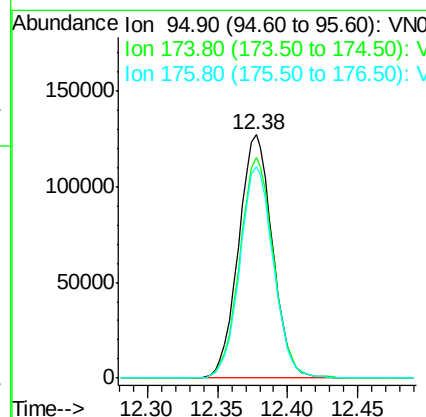
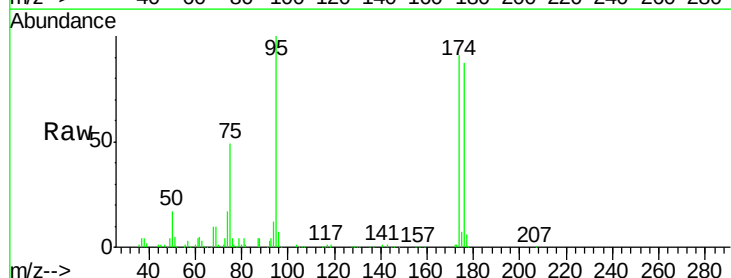
Instrument :
MSVOA_N
ClientSampleId :
PB129452ZHE#01

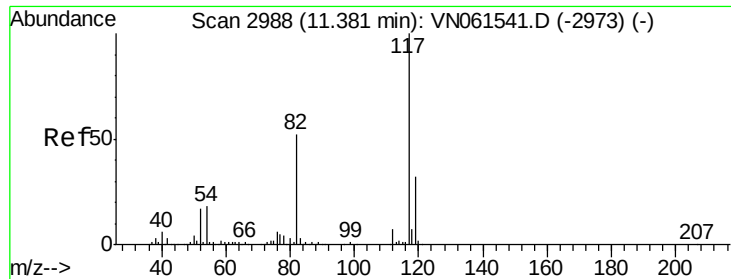
Tgt Ion: 43 Resp: 63105
Ion Ratio Lower Upper
43 100
58 24.1 30.7 92.1#



#62
4-Bromofluorobenzene
Concen: 49.47 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061771.D
Acq: 12 Jun 2020 6:04

Tgt Ion: 95 Resp: 214641
Ion Ratio Lower Upper
95 100
174 90.2 0.0 172.8
176 86.1 0.0 164.8

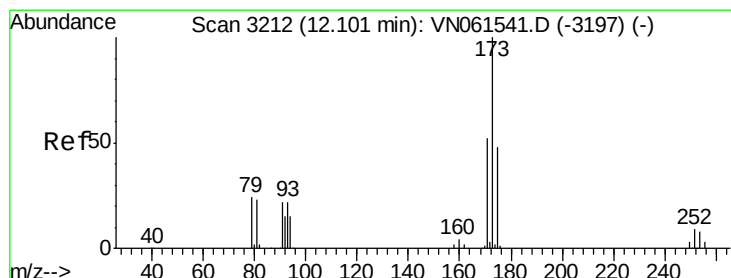
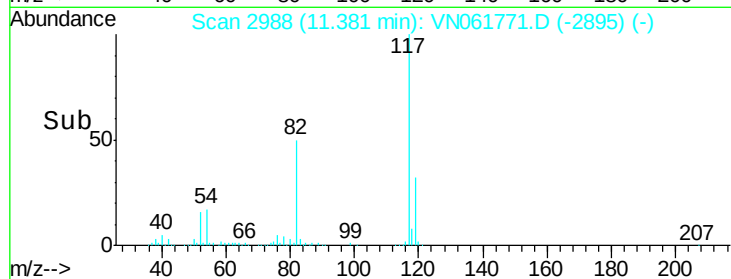
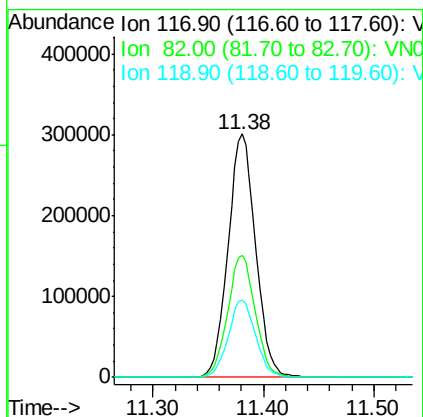
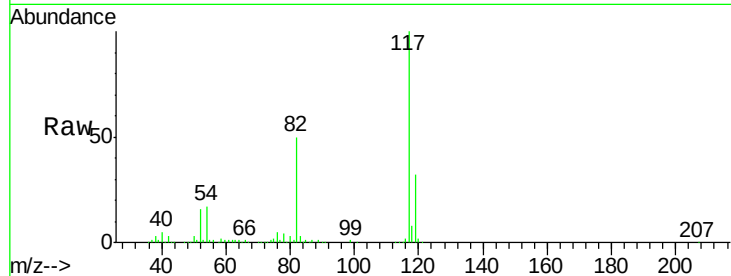




#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 11.38 min Scan# 2988
 Delta R.T. 0.00 min
 Lab File: VN061771.D
 Acq: 12 Jun 2020 6:04

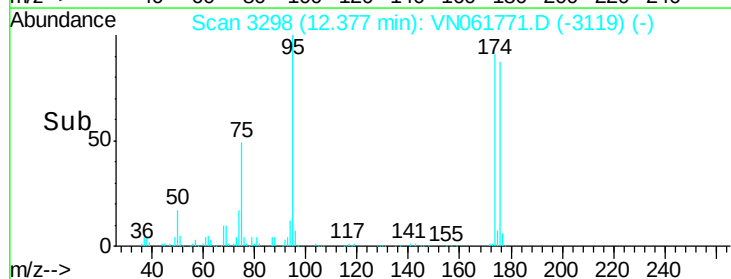
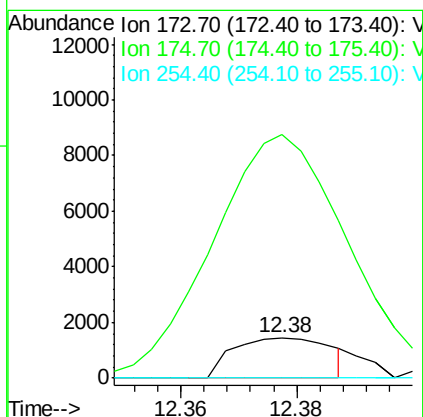
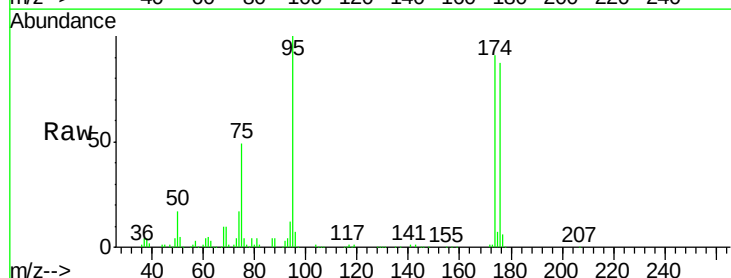
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129452ZHE#01

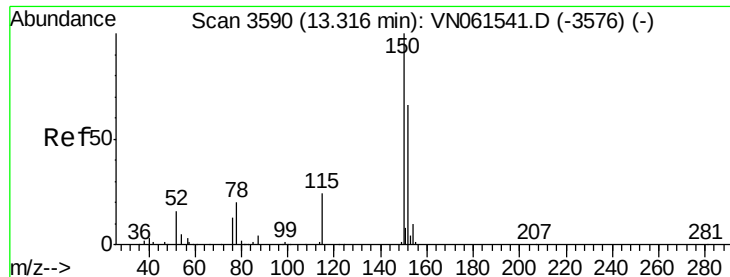
Tgt Ion	Ratio	Lower	Upper
117	100		
82	50.3	41.5	62.3
119	31.8	25.6	38.4



#71
 Bromoform
 Concen: 0.54 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.28 min
 Lab File: VN061771.D
 Acq: 12 Jun 2020 6:04

Tgt Ion	Ratio	Lower	Upper
173	100		
175	713.5	24.4	73.2#
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#01

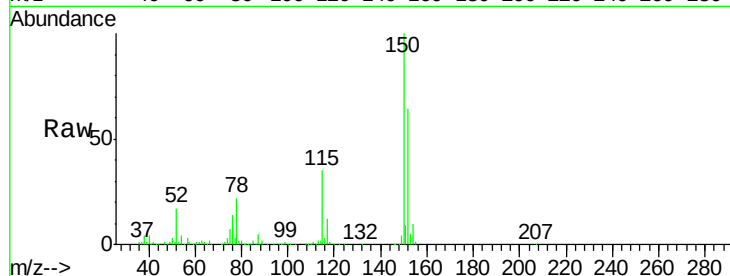
Tgt Ion:152 Resp: 223277

Ion Ratio Lower Upper

152 100

115 56.1 28.0 84.0

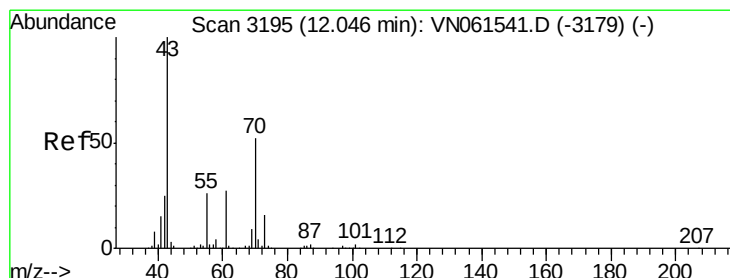
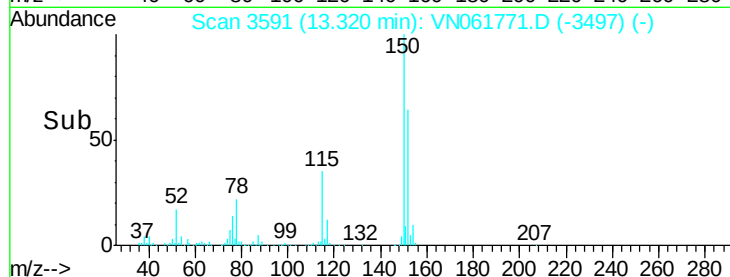
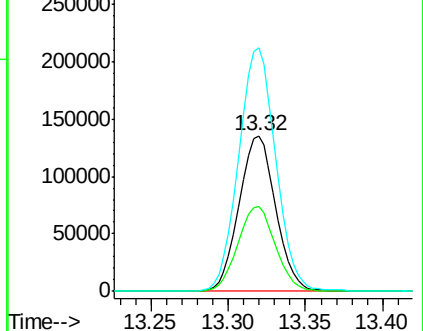
150 158.8 0.0 344.0



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: 0.35 ug/l

RT: 12.01 min Scan# 3184

Delta R.T. -0.04 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Tgt Ion: 43 Resp: 1787

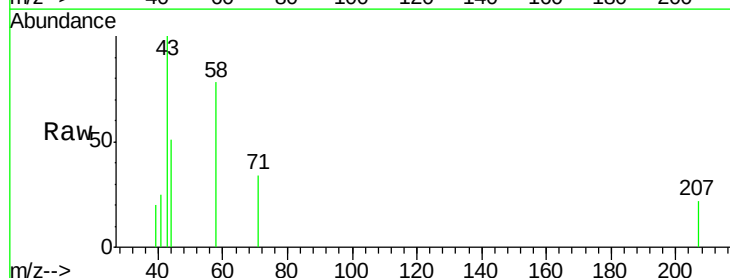
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 0.0 20.6 31.0#

61 0.0 21.8 32.6#

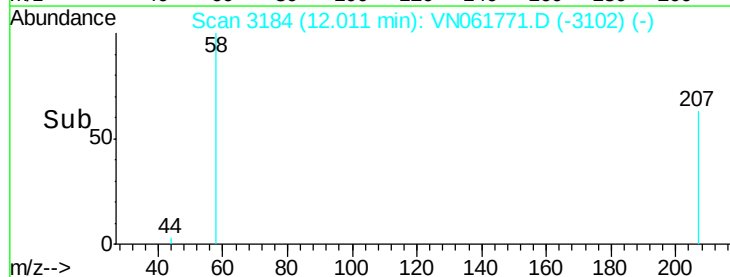
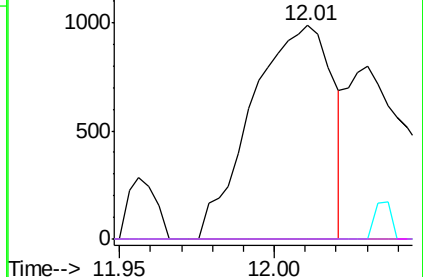


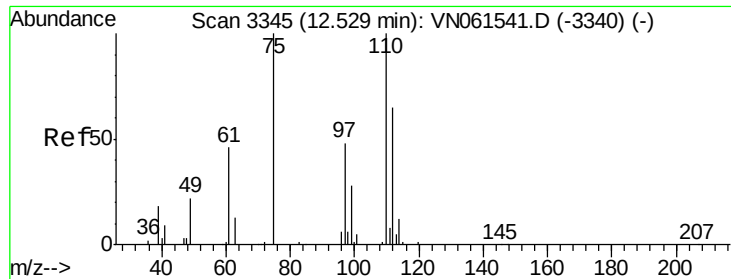
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.74 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

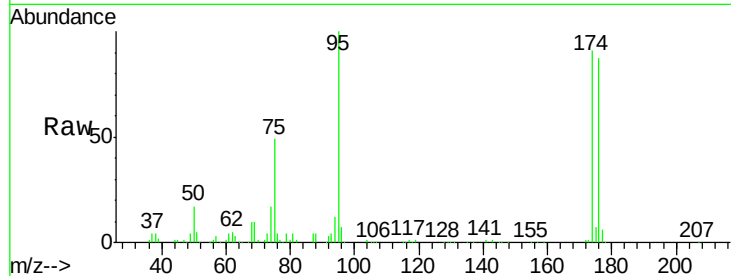
PB129452ZHE#01

Tgt Ion: 75 Resp: 104500

Ion Ratio Lower Upper

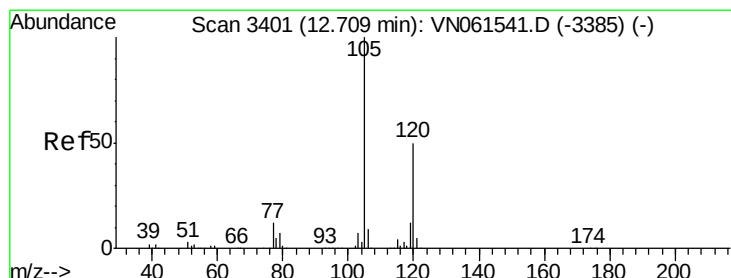
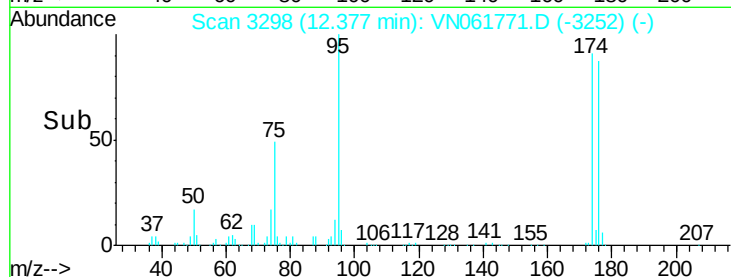
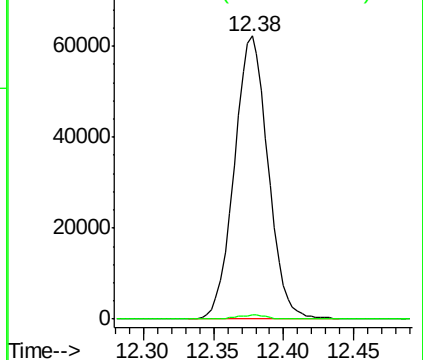
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061541.D (-3340) (-)

Ion 77.00 (76.70 to 77.70): VN061541.D (-3340) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.29 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061771.D

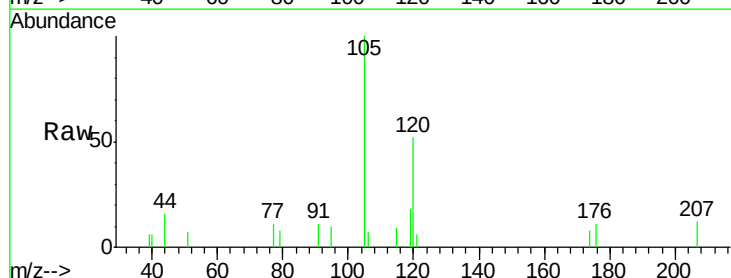
Acq: 12 Jun 2020 6:04

Tgt Ion: 105 Resp: 3966

Ion Ratio Lower Upper

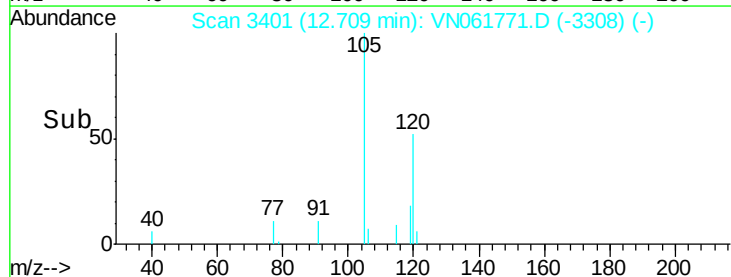
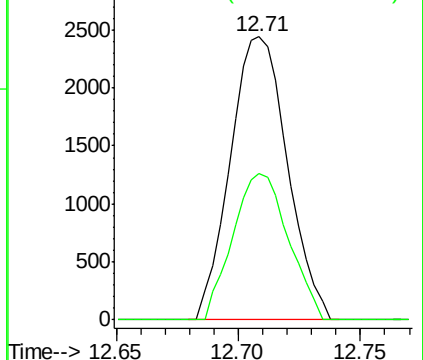
105 100

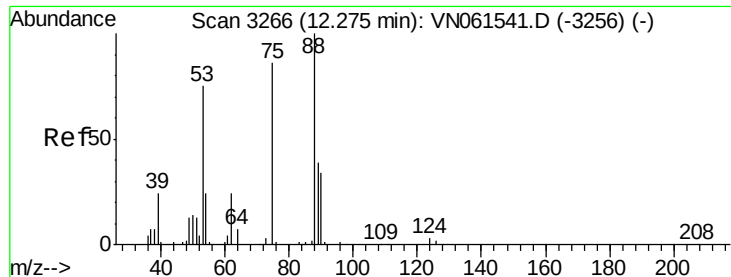
120 50.1 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN061541.D (-3385) (-)

Ion 120.00 (119.70 to 120.70): VN061541.D (-3385) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 65.82 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061771.D

Acq: 12 Jun 2020 6:04

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#01

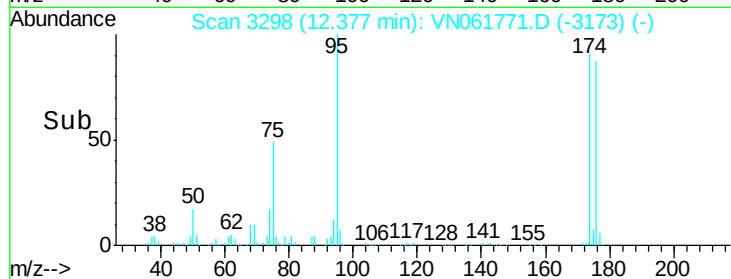
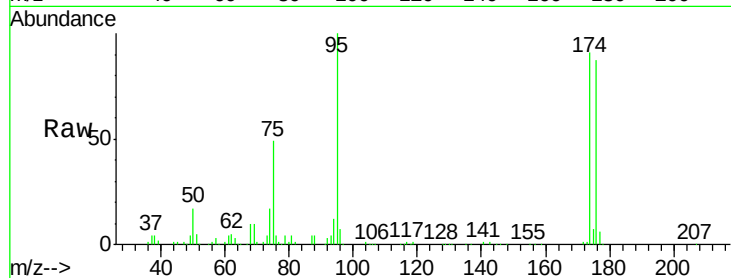
Tgt Ion: 75 Resp: 104500

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#



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

