

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070920\
 Data File : VN062470.D
 Acq On : 9 Jul 2020 21:26
 Operator : JC/MD
 Sample : PB130035ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130035ZHE#01

Quant Time: Jul 10 02:09:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 10 00:55:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	206827	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	376141	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	362283	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	136431	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	160096	50.32	ug/l	0.00
Spiked Amount			Recovery	=	100.64%	
35) Dibromofluoromethane	7.55	113	118659	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
50) Toluene-d8	10.06	98	487514	53.11	ug/l	0.00
Spiked Amount			Recovery	=	106.22%	
62) 4-Bromofluorobenzene	12.38	95	179797	53.60	ug/l	0.00
Spiked Amount			Recovery	=	107.20%	

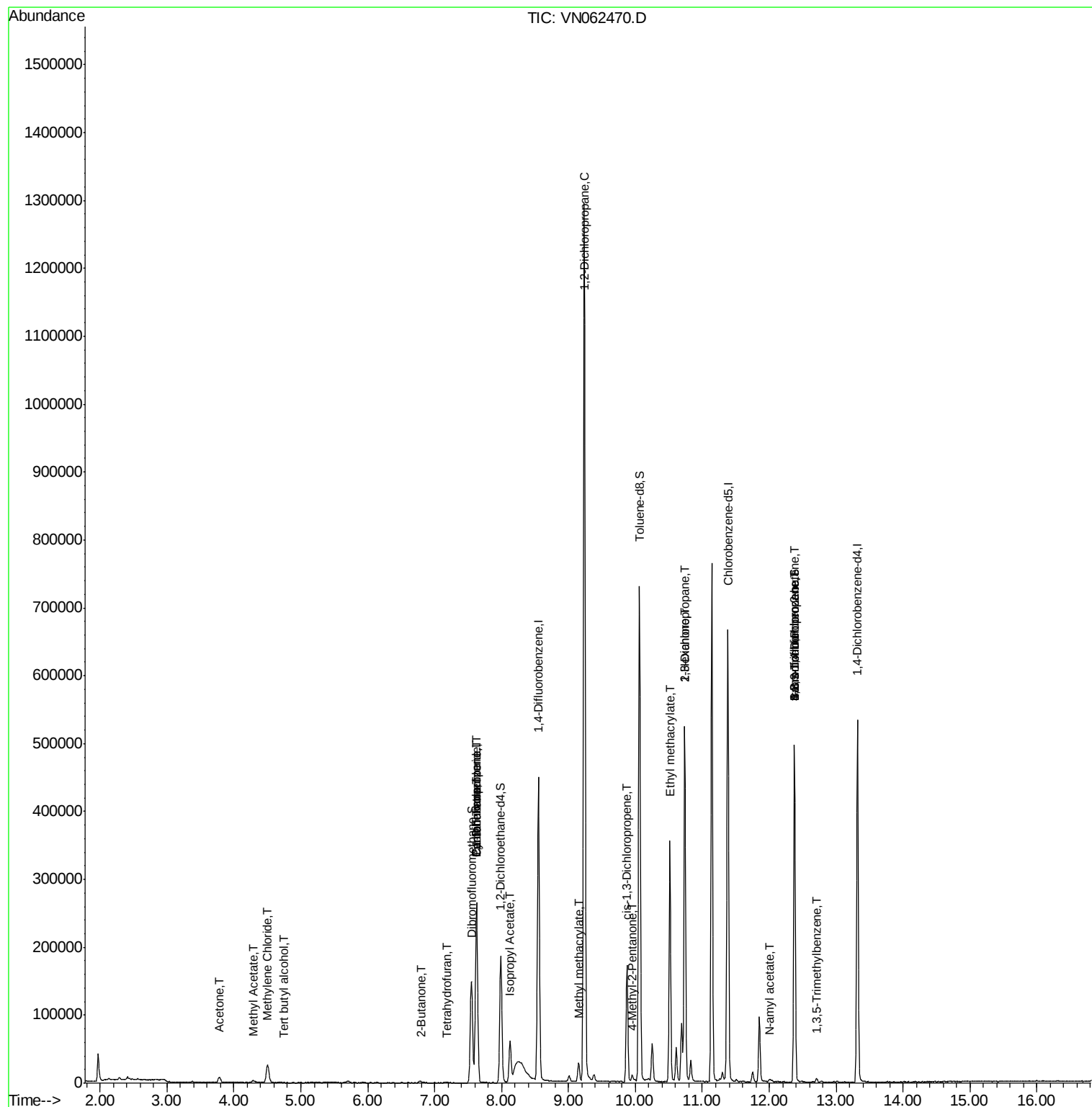
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	110	0.208	ug/l #	74
16) Acetone	3.78	43	14827	10.978	ug/l	100
18) Methyl Acetate	4.28	43	6073	1.802	ug/l #	88
20) Methylene Chloride	4.50	84	18189	6.299	ug/l	98
25) 2-Butanone	6.80	43	2387	1.210	ug/l #	53
29) Tetrahydrofuran	7.18	42	630	0.474	ug/l #	51
31) Cyclohexane	7.63	56	5124	1.060	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	18535	4.891	ug/l #	52
38) Carbon Tetrachloride	7.63	117	21013	6.168	ug/l #	16
43) Isopropyl Acetate	8.13	43	76717	10.959	ug/l #	92
45) 1,2-Dichloropropane	9.24	63	1560	0.481	ug/l #	44
48) Methyl methacrylate	9.15	41	4313	1.256	ug/l #	17
51) 4-Methyl-2-Pentanone	9.95	43	8621	2.062	ug/l #	86
54) cis-1,3-Dichloropropene	9.88	75	29161	6.031	ug/l #	60
56) Ethyl methacrylate	10.52	69	1095	1.938	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5021	1.071	ug/l #	43
59) 2-Hexanone	10.74	43	82643	27.227	ug/l #	55
71) Bromoform	12.37	173	1001	0.526	ug/l #	1
74) N-amyl acetate	12.01	43	2793	0.544	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	91884	27.448	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3676	0.425	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.38	75	91884	73.467	ug/l #	10
95) Naphthalene	15.11	128	977	Below Cal	#	70

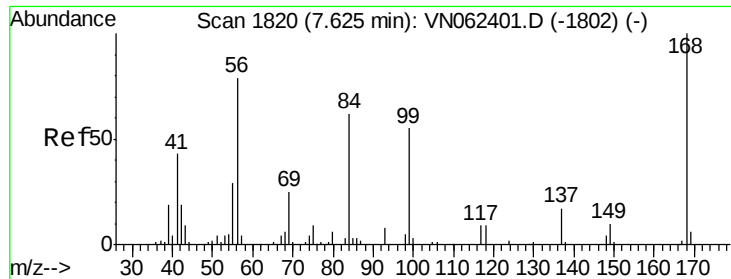
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 10 02:09:06 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N070820W.M
Quant Title : SW846 8260
QLast Update : Fri Jul 10 00:55:52 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: VN062470.D

Acq: 9 Jul 2020 21:26

Instrument :

MSVOA_N

ClientSampleId :

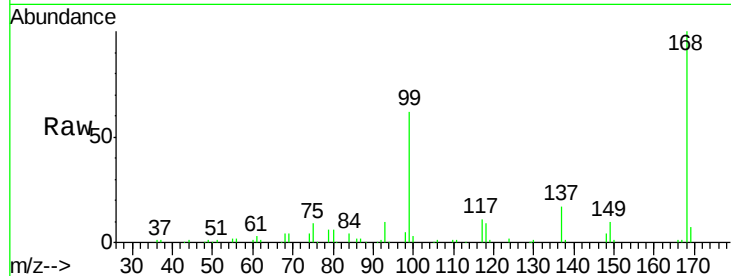
PB130035ZHE#01

Tot Ion:168 Resp: 206827

Ion Ratio Lower Upper

168 100

99 61.6 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

80000

60000

40000

20000

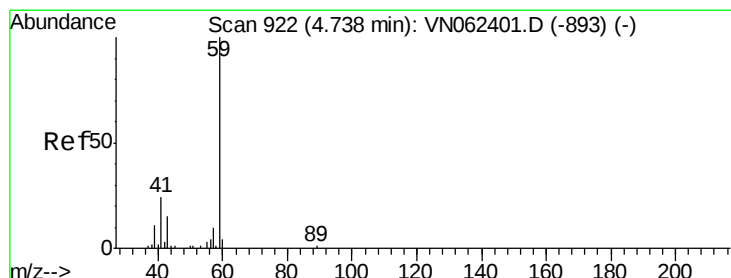
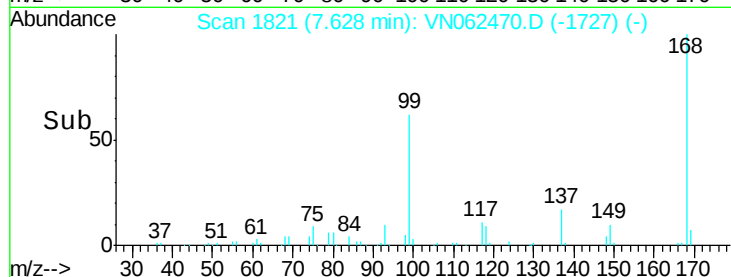
0

Time-->

7.50

7.60

7.70



#11

Tert butyl alcohol

Concen: 0.208 ug/l

RT: 4.74 min Scan# 924

Delta R.T. 0.01 min

Lab File: VN062470.D

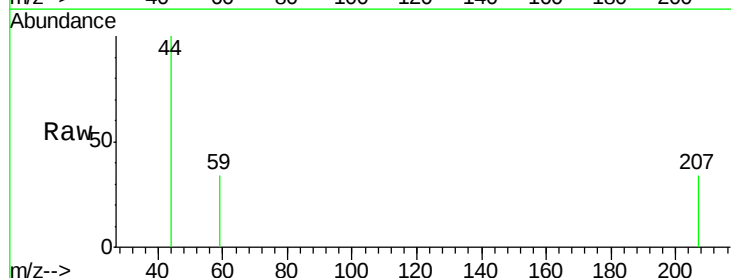
Acq: 9 Jul 2020 21:26

Tgt Ion: 59 Resp: 110

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

250

200

150

100

50

0

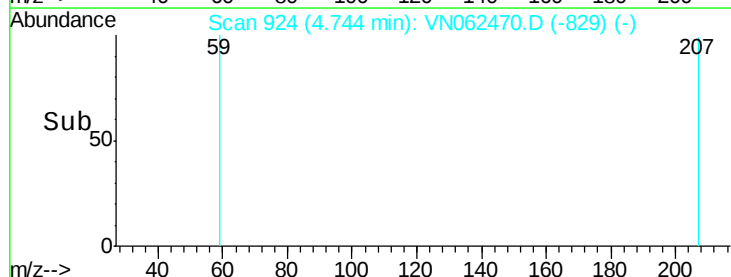
Time-->

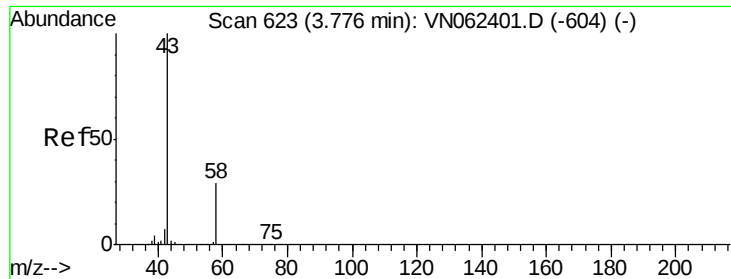
4.73

4.74

4.75

4.76

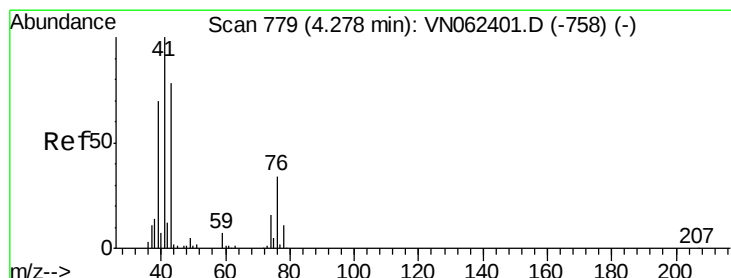
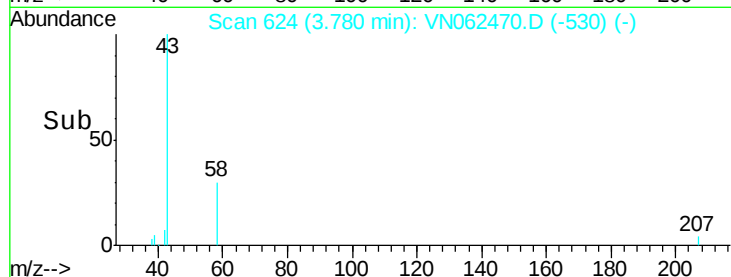
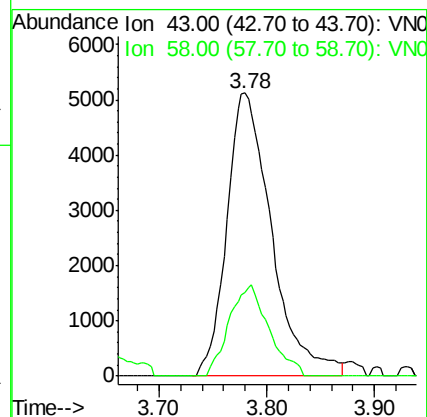
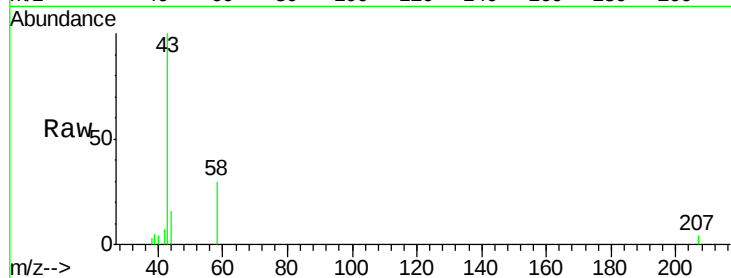




#16
Acetone
Concen: 10.978 ug/l
RT: 3.78 min Scan# 624
Delta R.T. 0.00 min
Lab File: VN062470.D
Acq: 9 Jul 2020 21:26

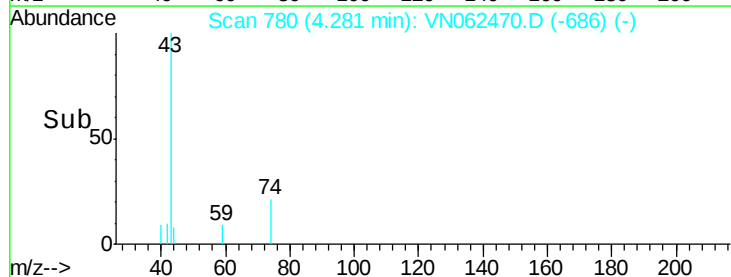
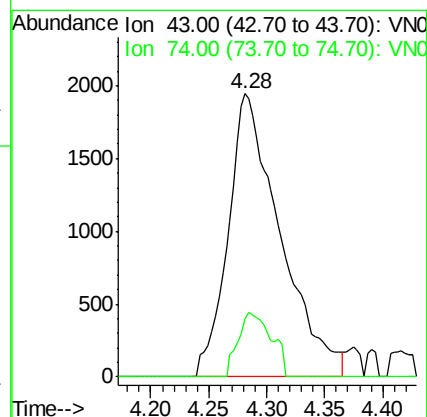
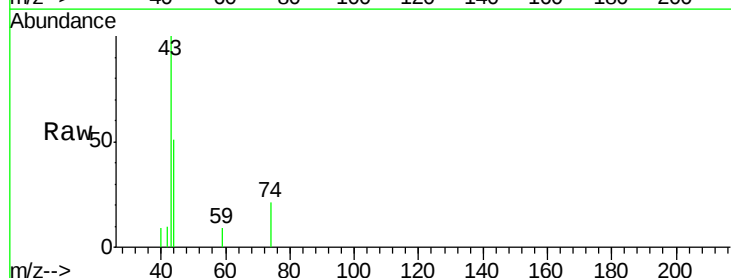
Instrument :
MSVOA_N
ClientSampleId :
PB130035ZHE#01

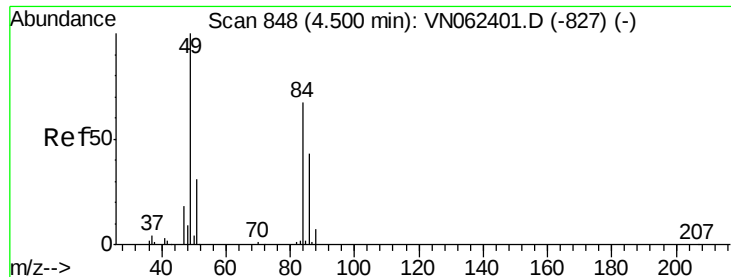
Tot Ion: 43 Resp: 14827
Ion Ratio Lower Upper
43 100
58 29.6 23.5 35.3



#18
Methyl Acetate
Concen: 1.802 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.00 min
Lab File: VN062470.D
Acq: 9 Jul 2020 21:26

Tgt Ion: 43 Resp: 6073
Ion Ratio Lower Upper
43 100
74 14.4 16.0 24.0#

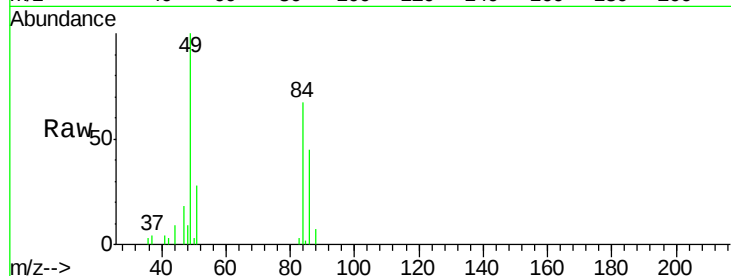




#20
Methvlene Chloride
Concen: 6.299 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062470.D
Acq: 9 Jul 2020 21:26

Instrument :
MSVOA_N
ClientSampleId :
PB130035ZHE#01

Tot Ion: 84	Resp: 18189
Ion Ratio	Lower Upper
84 100	
49 149.3	120.0 180.0
51 41.7	37.0 55.6
86 67.6	51.8 77.6

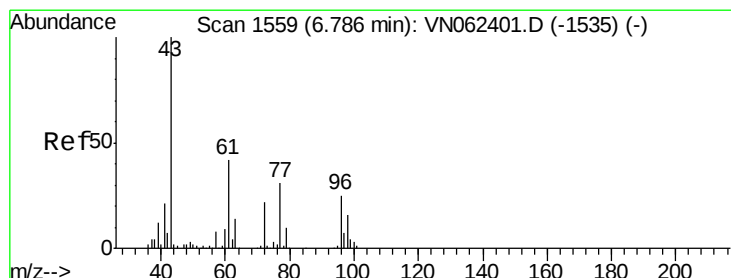
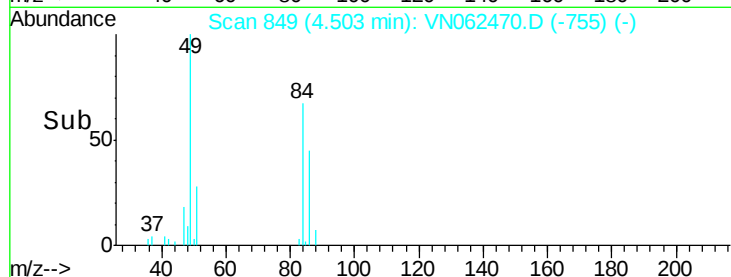
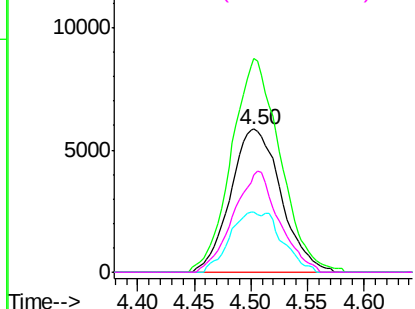


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

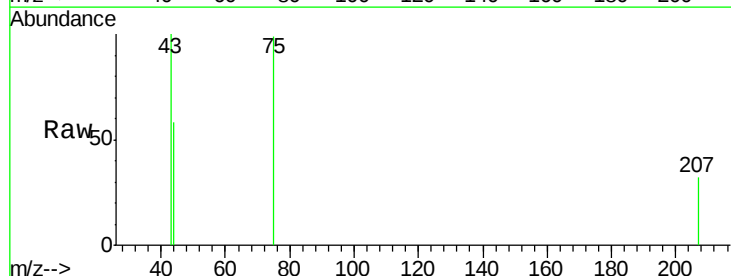
Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



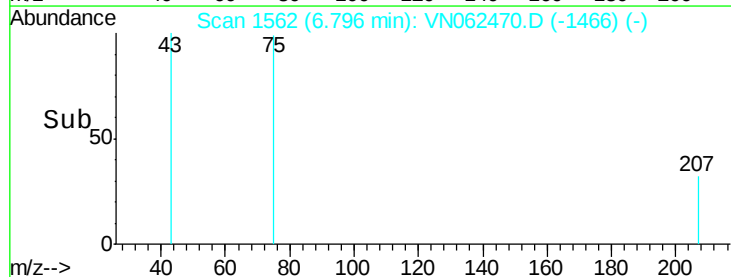
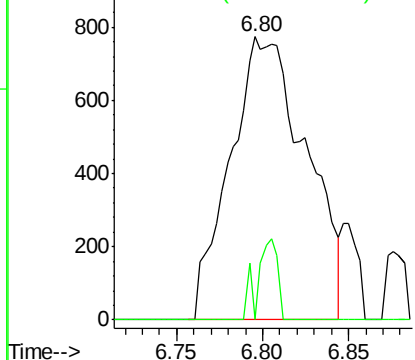
#25
2-Butanone
Concen: 1.210 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062470.D
Acq: 9 Jul 2020 21:26

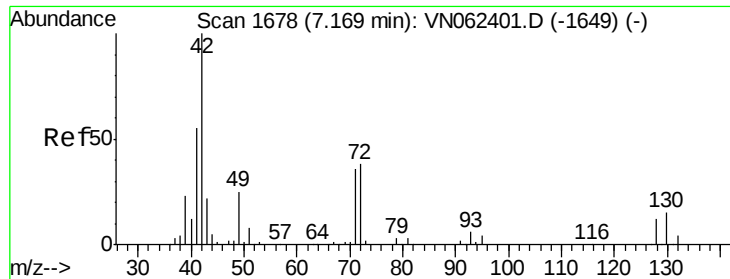
Tgt Ion: 43	Resp: 2387
Ion Ratio	Lower Upper
43 100	
72 0.0	17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.474 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#01

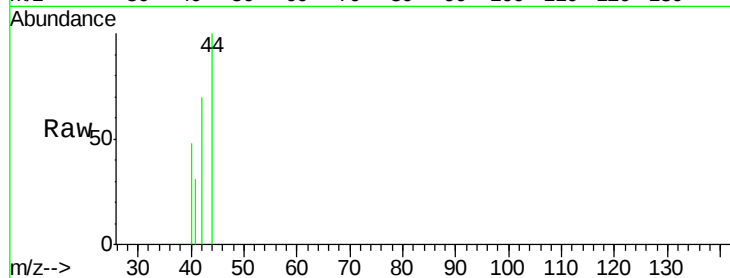
Tot Ion: 42 Resp: 630

Ion Ratio Lower Upper

42 100

72 4.8 29.1 43.7#

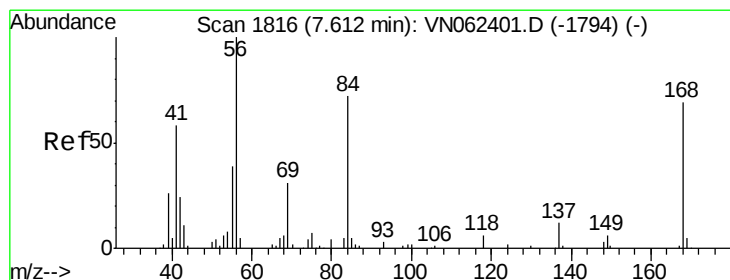
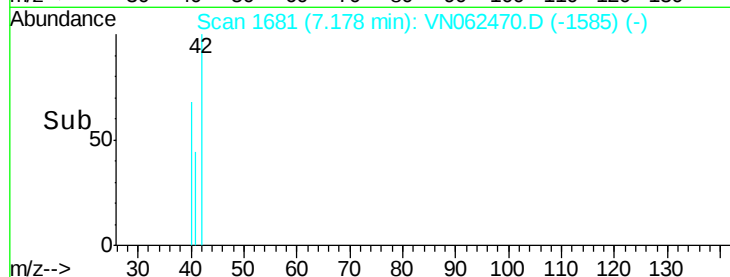
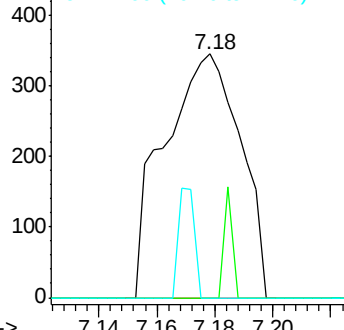
71 9.4 28.1 42.1#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.060 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

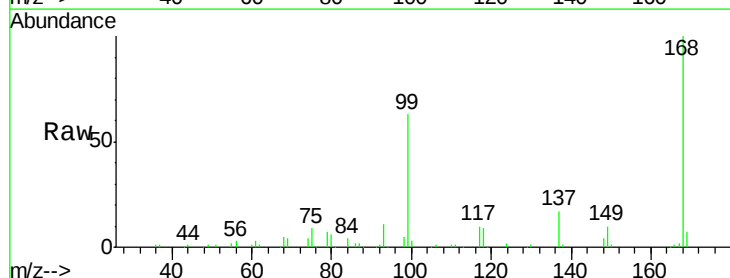
Tgt Ion: 56 Resp: 5124

Ion Ratio Lower Upper

56 100

69 167.3 24.5 36.7#

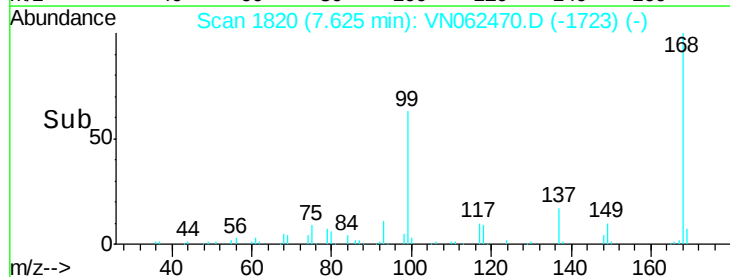
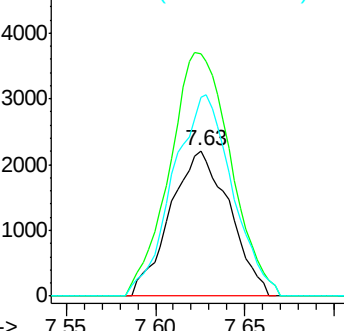
84 137.2 57.4 86.2#

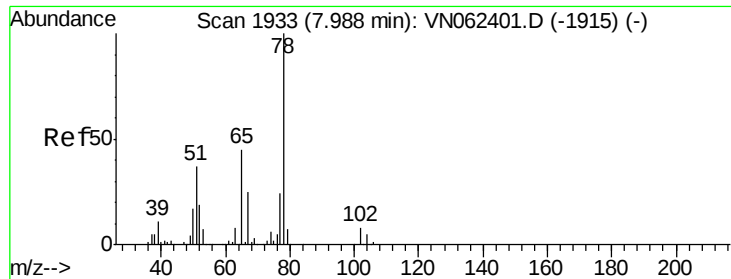


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

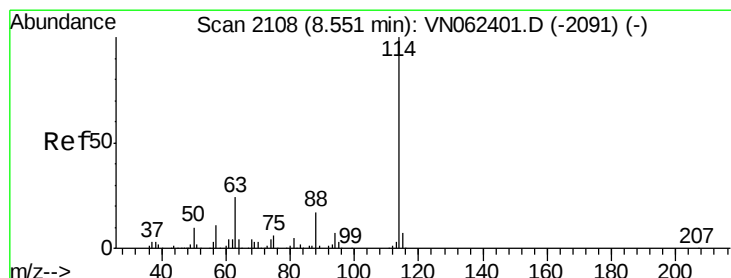
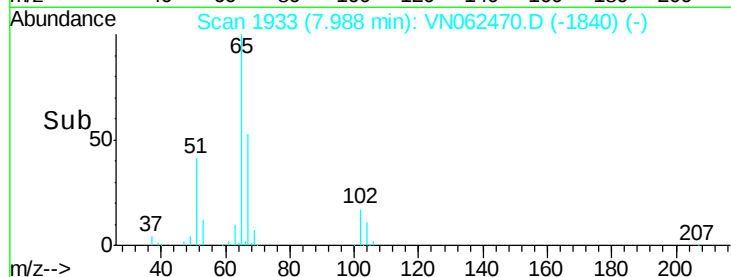
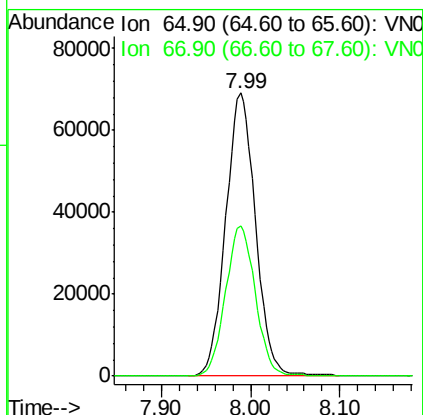
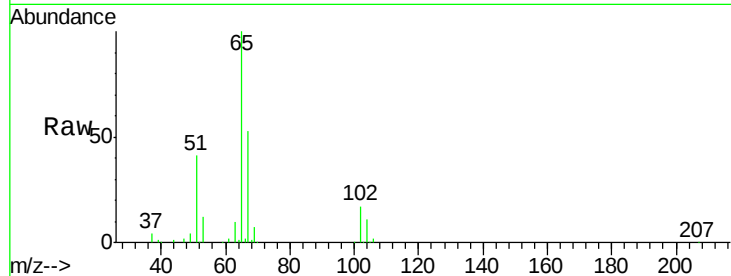




#33
 1,2-Dichloroethane-d4
 Concen: 50.325 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN062470.D
 Acq: 9 Jul 2020 21:26

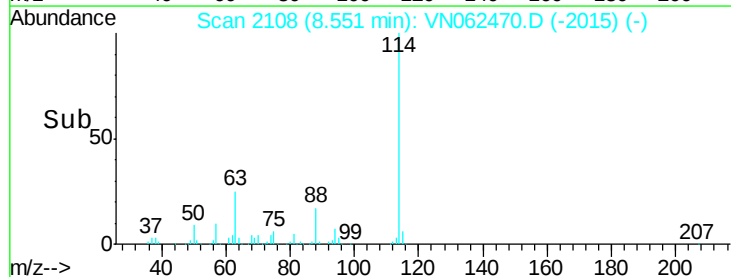
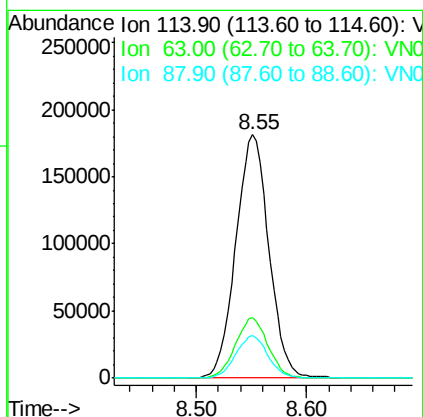
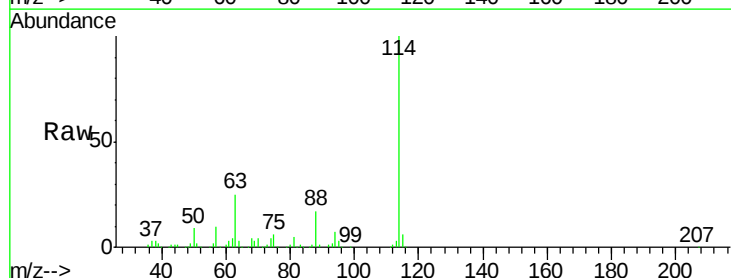
Instrument :
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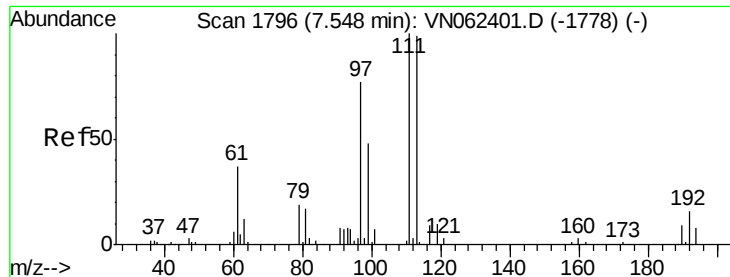
Tot Ion: 65 Resp: 160096
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062470.D
 Acq: 9 Jul 2020 21:26

Tgt Ion: 114 Resp: 376141
 Ion Ratio Lower Upper
 114 100
 63 24.7 0.0 48.4
 88 17.3 0.0 33.8

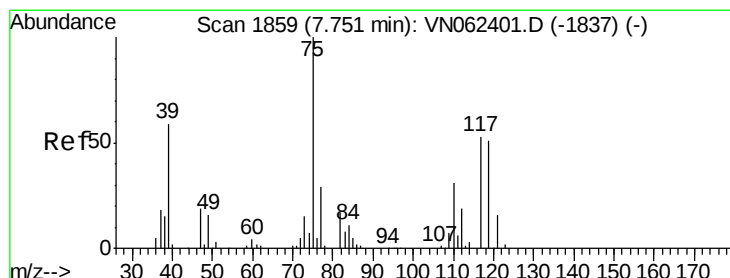
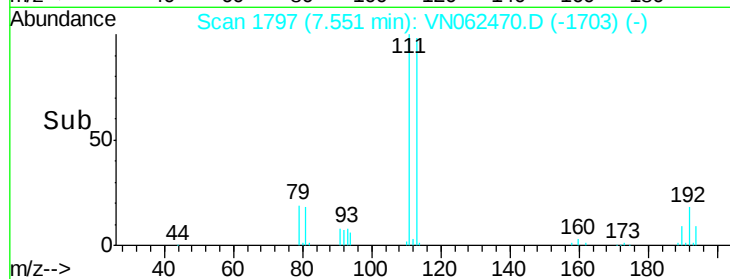
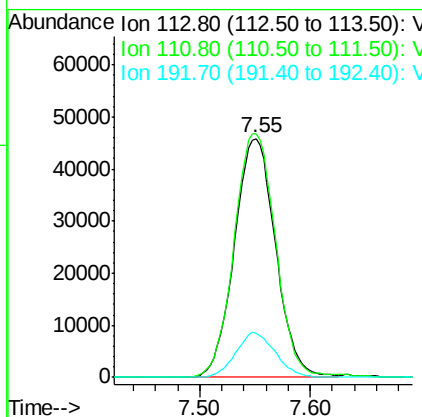
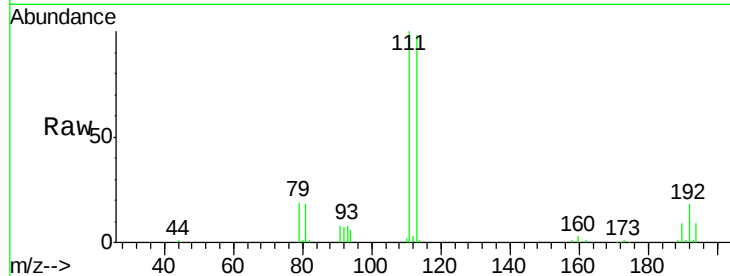




#35
 Dibromofluoromethane
 Concen: 51.035 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062470.D
 Acq: 9 Jul 2020 21:26

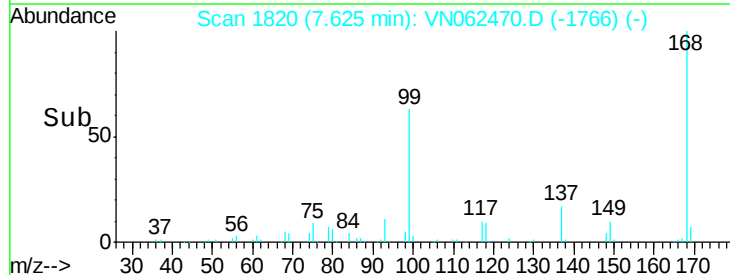
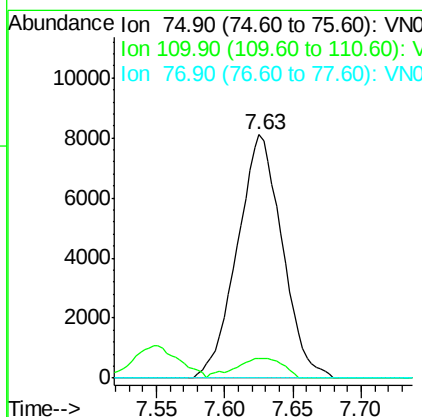
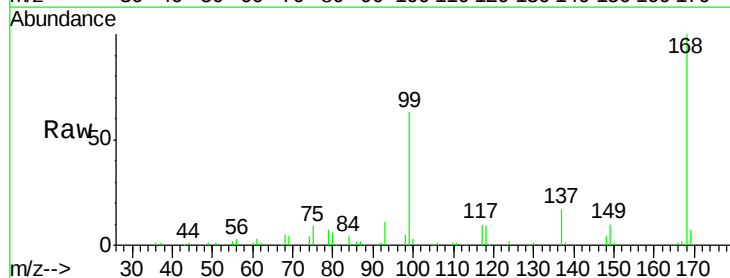
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130035ZHE#01

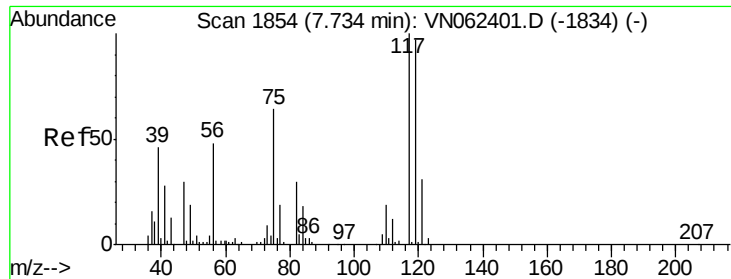
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	83.1	124.7
192	18.0	14.1	21.1



#36
 1,1-Dichloropropene
 Concen: 4.891 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062470.D
 Acq: 9 Jul 2020 21:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	15.4	46.2#
77	0.0	24.1	36.1#





#38

Carbon Tetrachloride

Concen: 6.168 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#01

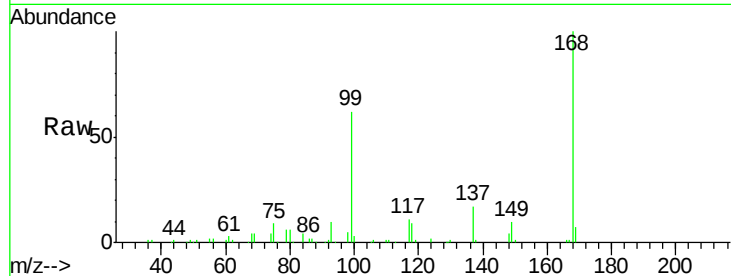
Tot Ion:117 Resp: 21013

Ion Ratio Lower Upper

117 100

119 5.2 77.2 115.8#

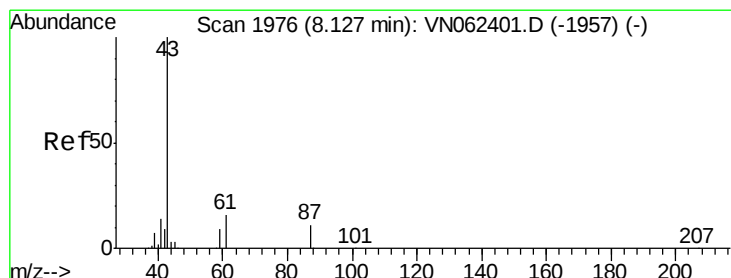
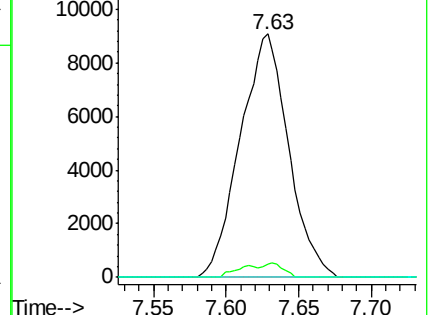
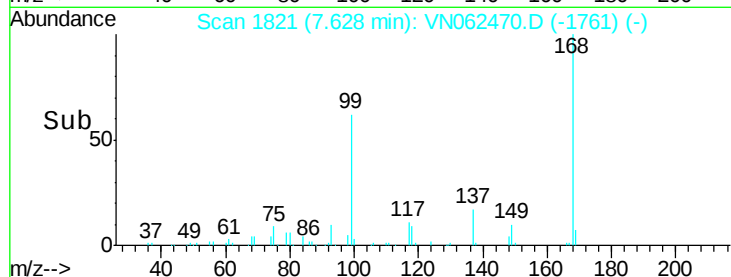
121 0.0 24.8 37.2#



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: 10.959 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

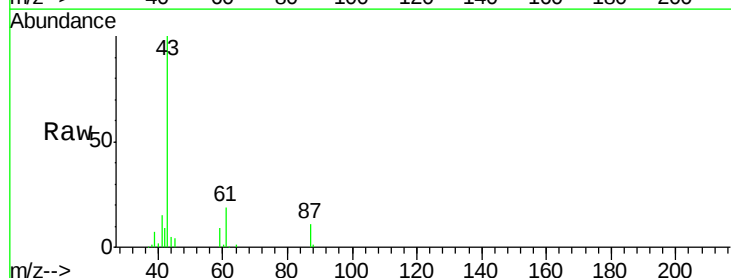
Tgt Ion: 43 Resp: 76717

Ion Ratio Lower Upper

43 100

61 18.2 19.3 28.9#

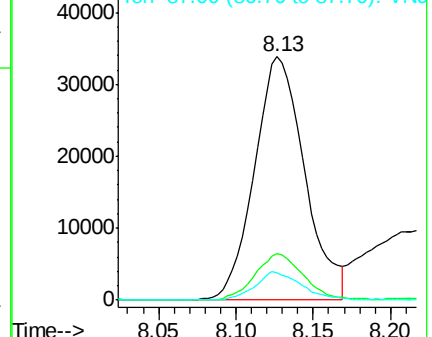
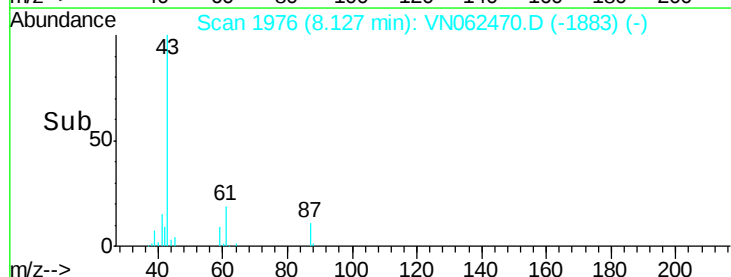
87 10.5 8.6 13.0

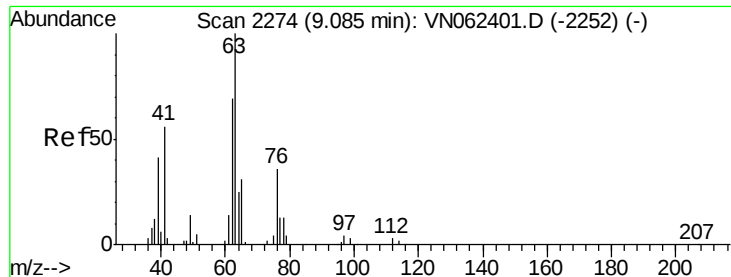


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.481 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

Instrument :

MSVOA_N

ClientSampleId :

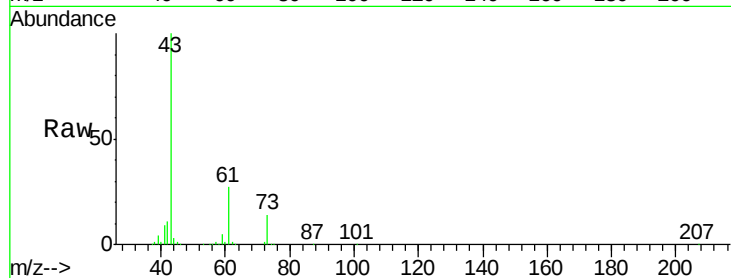
PB130035ZHE#01

Tot Ion: 63 Resp: 1560

Ion Ratio Lower Upper

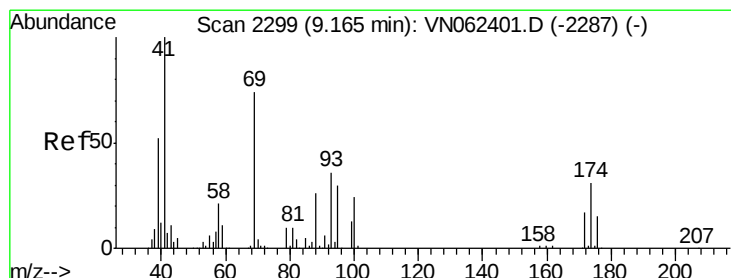
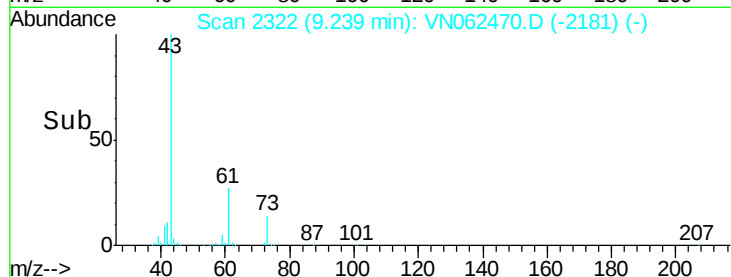
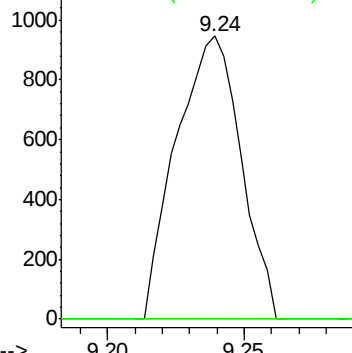
63 100

65 0.0 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.256 ug/l

RT: 9.15 min Scan# 2293

Delta R.T. -0.02 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

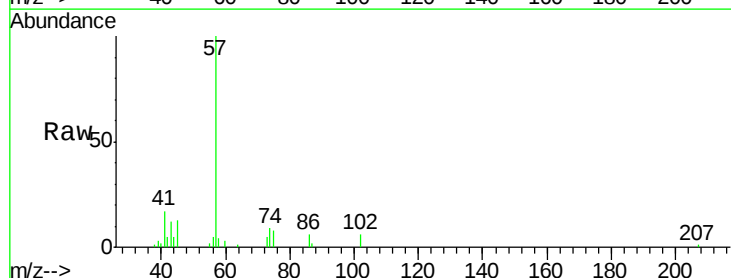
Tgt Ion: 41 Resp: 4313

Ion Ratio Lower Upper

41 100

69 0.0 60.8 91.2#

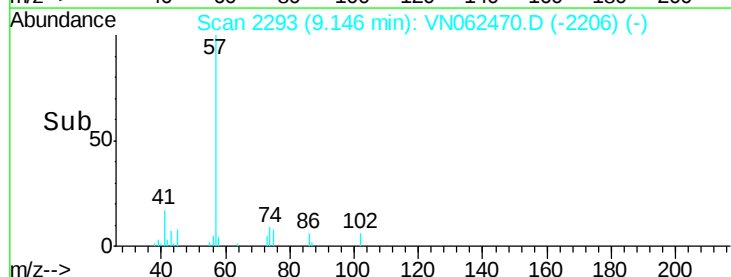
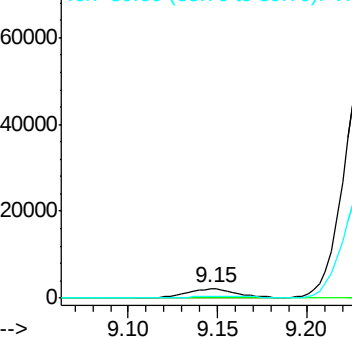
39 0.0 43.5 65.3#

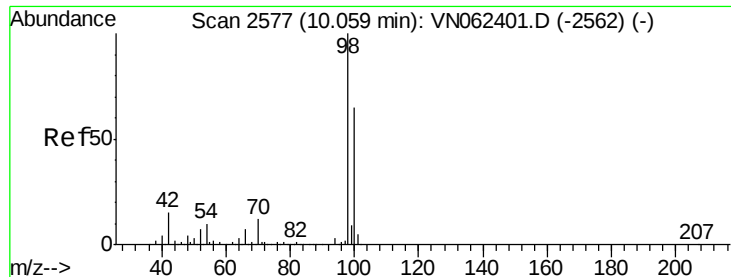


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 53.114 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

Instrument :

MSVOA_N

ClientSampleId :

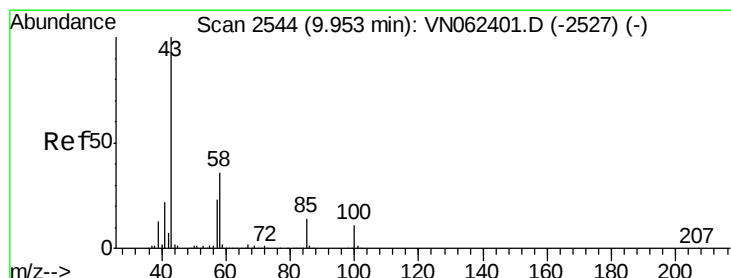
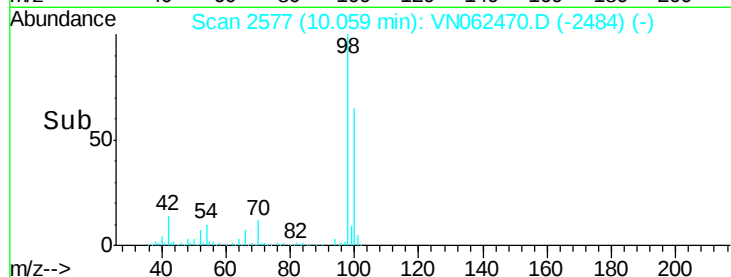
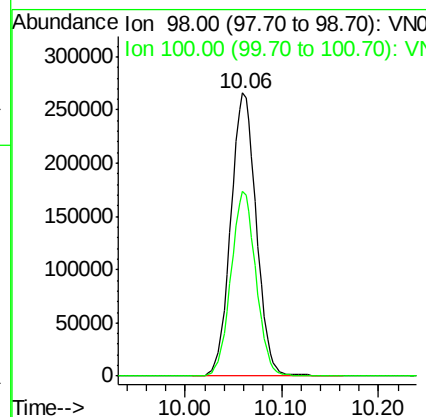
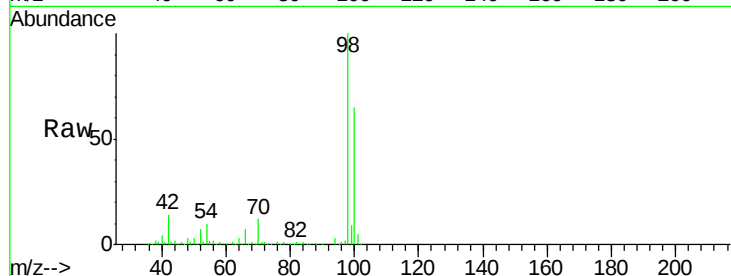
PB130035ZHE#01

Tot Ion: 98 Resp: 487514

Ion Ratio Lower Upper

98 100

100 63.9 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 2.062 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062470.D

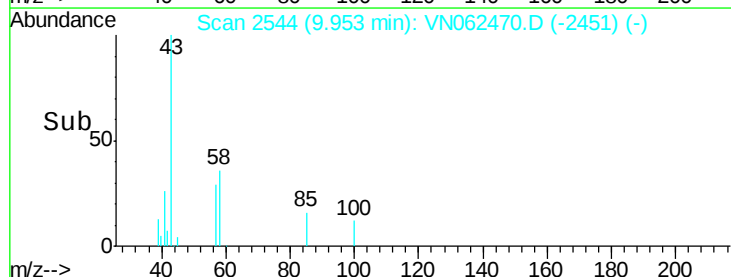
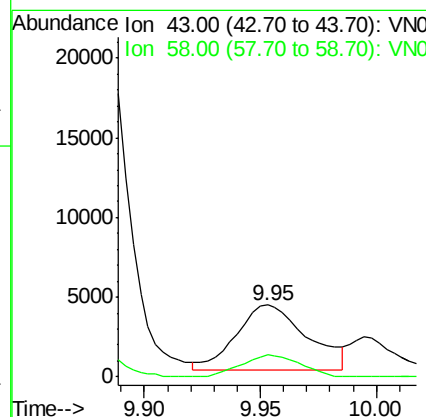
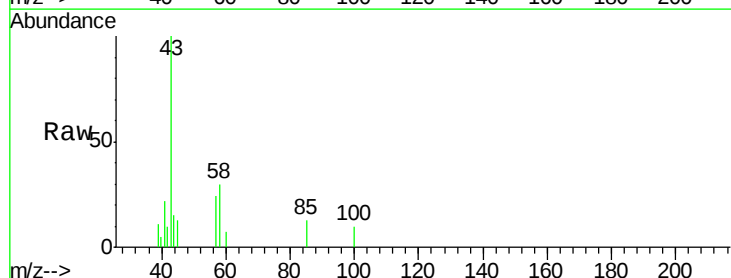
Acq: 9 Jul 2020 21:26

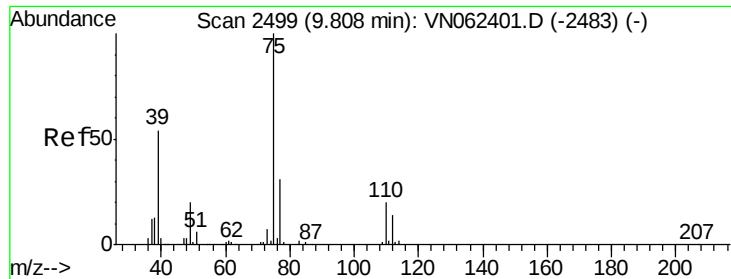
Tgt Ion: 43 Resp: 8621

Ion Ratio Lower Upper

43 100

58 27.9 29.0 43.6#





#54

cis-1,3-Dichloropropene

Concen: 6.031 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#01

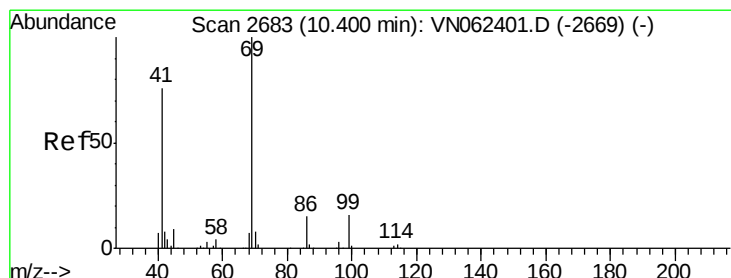
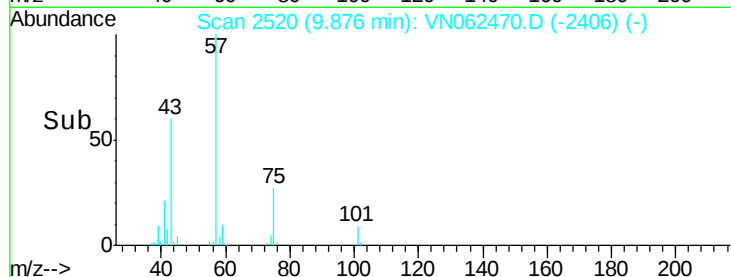
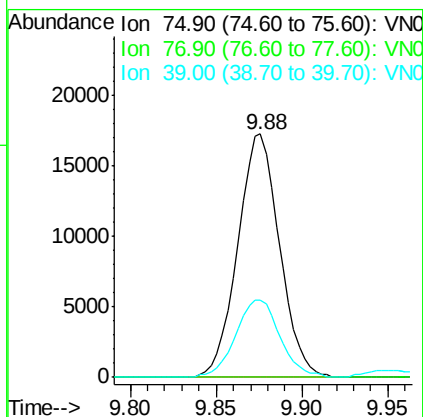
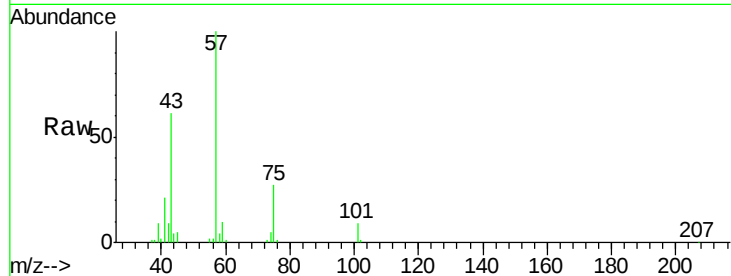
Tot Ion: 75 Resp: 29161

Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#

39 31.9 43.4 65.0#



#56

Ethyl methacrylate

Concen: 1.938 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

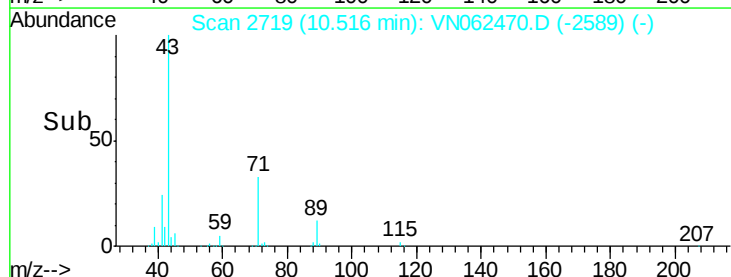
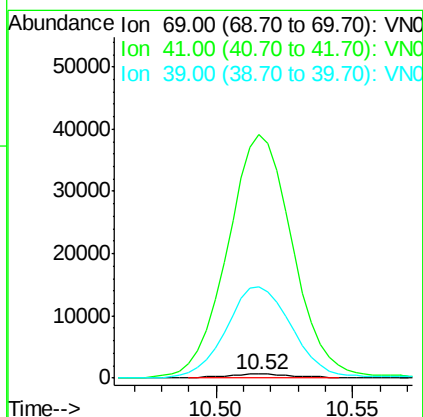
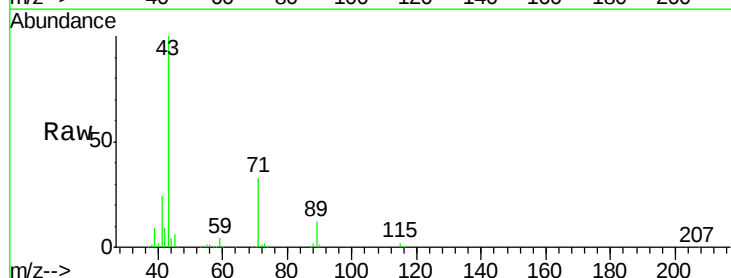
Tgt Ion: 69 Resp: 1095

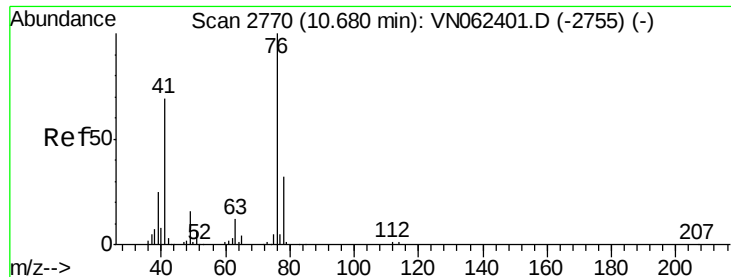
Ion Ratio Lower Upper

69 100

41 5964.4 59.7 89.5#

39 2295.0 30.6 45.8#

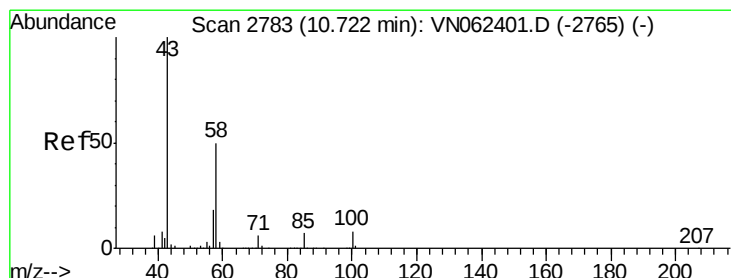
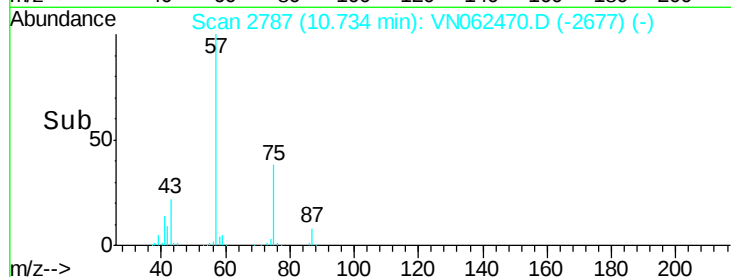
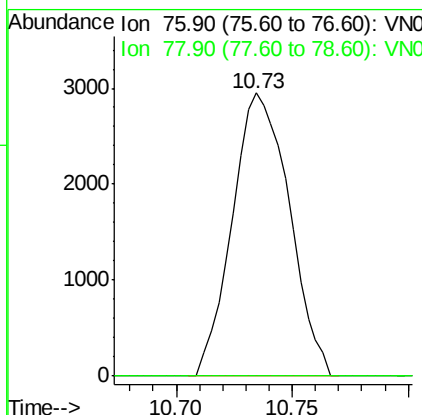
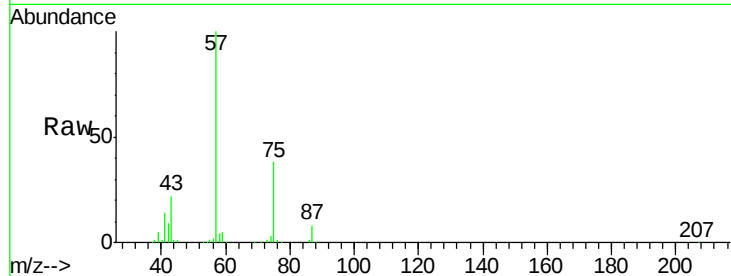




#57
 1,3-Dichloropropane
 Concen: 1.071 ug/l
 RT: 10.73 min Scan# 2787
 Delta R.T. 0.05 min
 Lab File: VN062470.D
 Acq: 9 Jul 2020 21:26

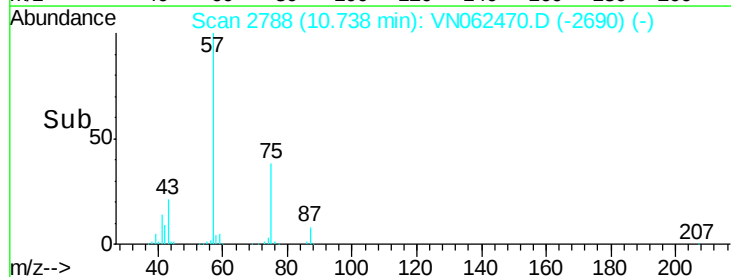
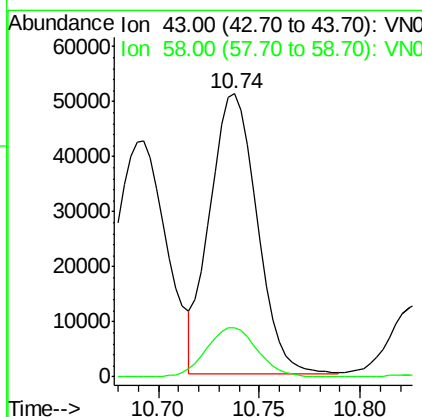
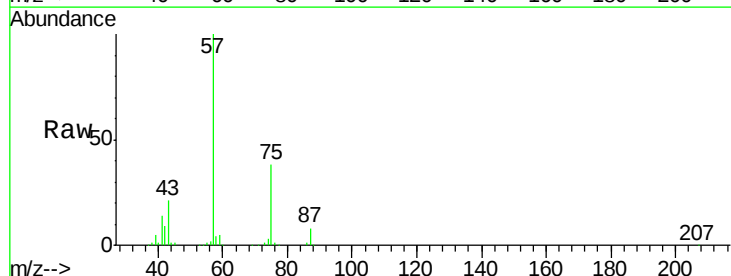
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130035ZHE#01

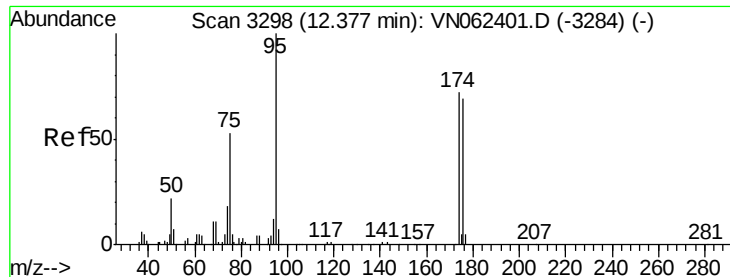
Tot Ion: 76 Resp: 5021
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 27.227 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN062470.D
 Acq: 9 Jul 2020 21:26

Tgt Ion: 43 Resp: 82643
 Ion Ratio Lower Upper
 43 100
 58 19.0 25.1 75.2#





#62

4-Bromofluorobenzene

Concen: 53.604 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#01

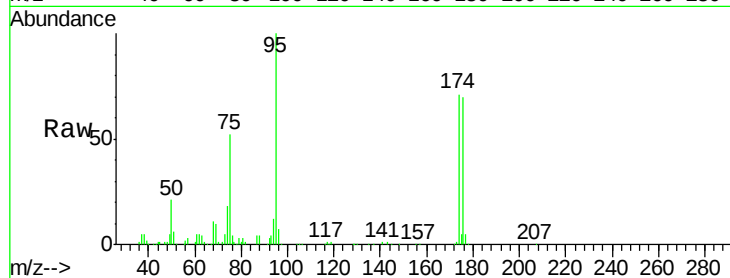
Tot Ion: 95 Resp: 179797

Ion Ratio Lower Upper

95 100

174 70.4 0.0 141.6

176 68.2 0.0 137.2



Abundance Ion 94.90 (94.60 to 95.60): VN062470.D (-3205) (-)

Ion 173.80 (173.50 to 174.50): VN062470.D (-3205) (-)

Ion 175.80 (175.50 to 176.50): VN062470.D (-3205) (-)

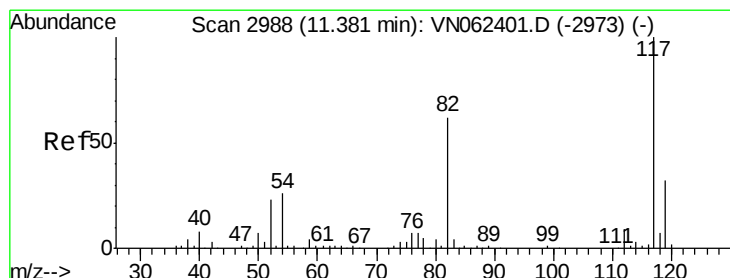
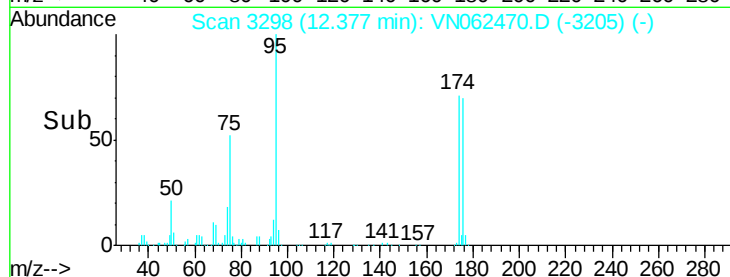
12.38

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

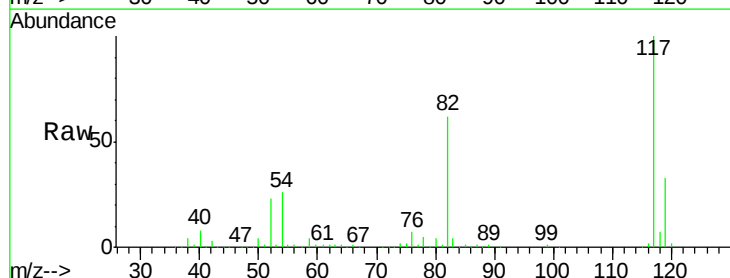
Tgt Ion: 117 Resp: 362283

Ion Ratio Lower Upper

117 100

82 62.2 49.6 74.4

119 32.6 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): VN062470.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN062470.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN062470.D (-2895) (-)

11.38

250000

200000

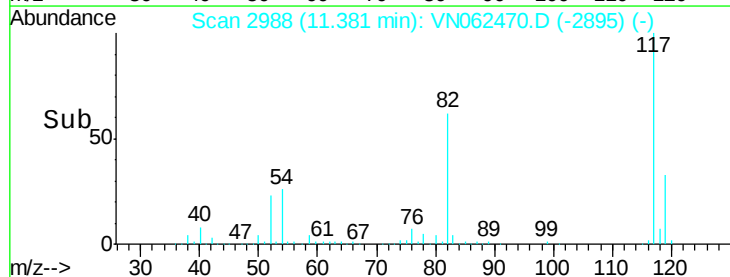
150000

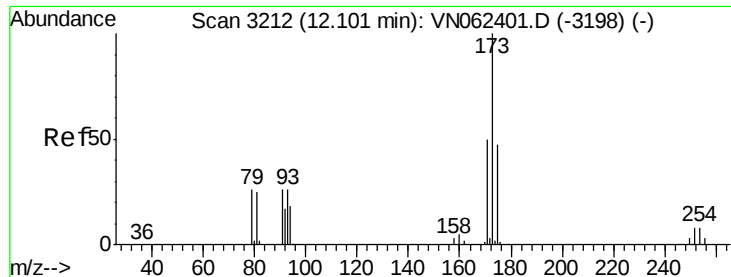
100000

50000

0

Time-->





#71

Bromoform

Concen: 0.526 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#01

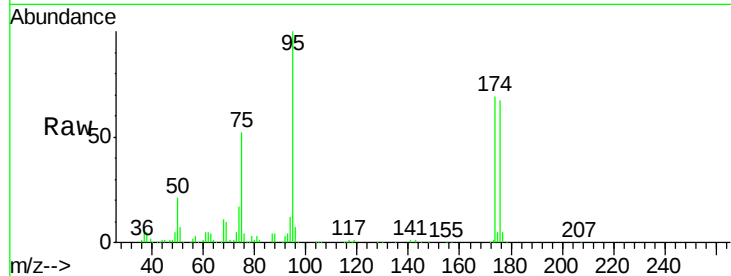
Tot Ion:173 Resp: 1001

Ion Ratio Lower Upper

173 100

175 772.8 23.7 71.1#

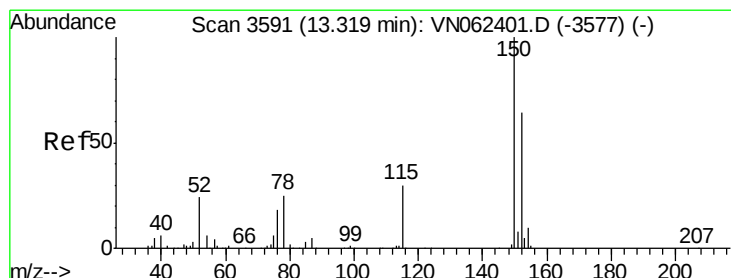
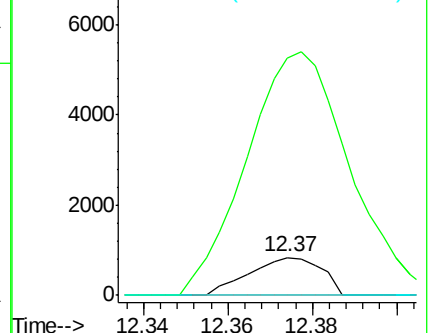
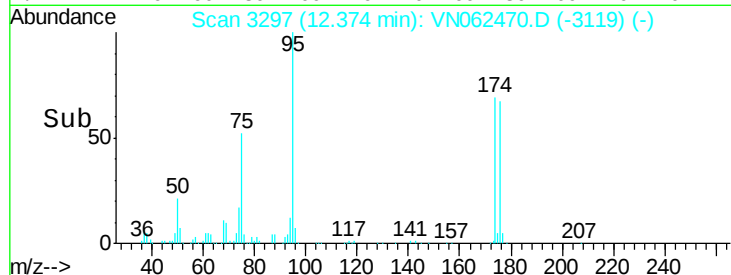
254 0.0 0.0 0.0



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: VN062470.D

Acq: 9 Jul 2020 21:26

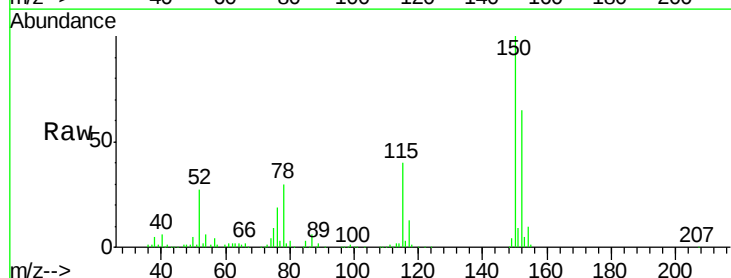
Tgt Ion:152 Resp: 136431

Ion Ratio Lower Upper

152 100

115 63.0 31.4 94.2

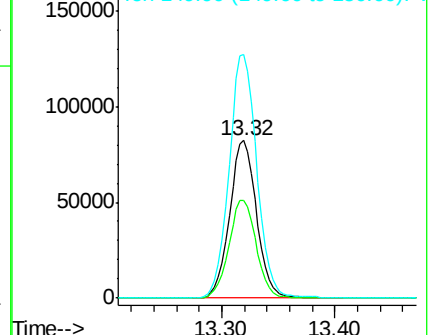
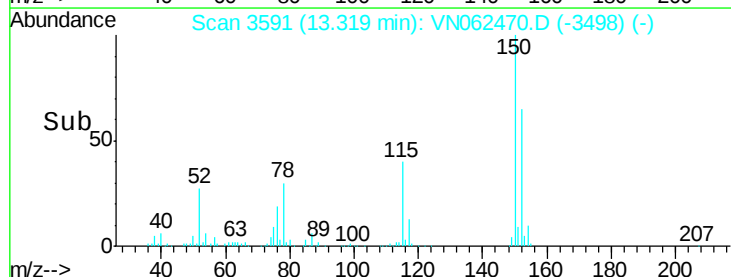
150 158.8 0.0 347.4

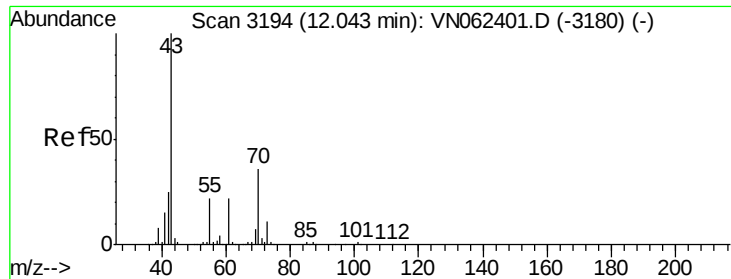


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

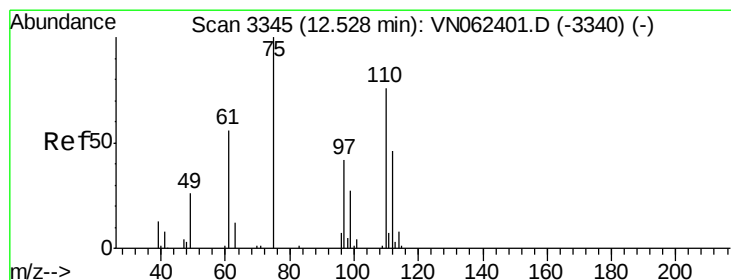
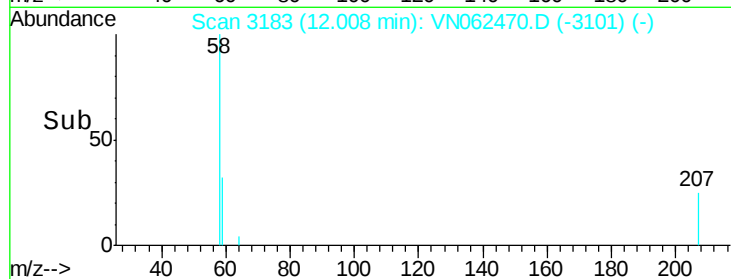
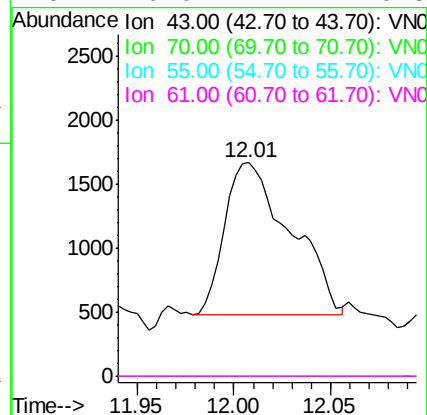
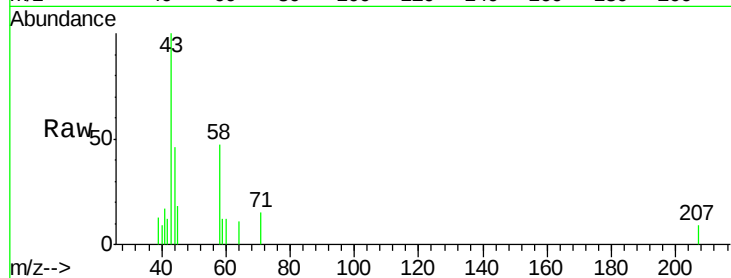




#74
N-amvl acetate
Concen: 0.544 ug/l
RT: 12.01 min Scan# 3183
Delta R.T. -0.04 min
Lab File: VN062470.D
Acq: 9 Jul 2020 21:26

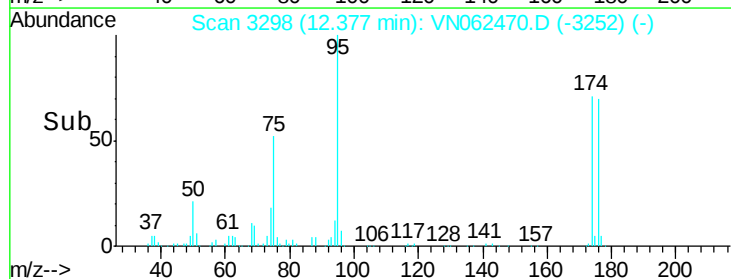
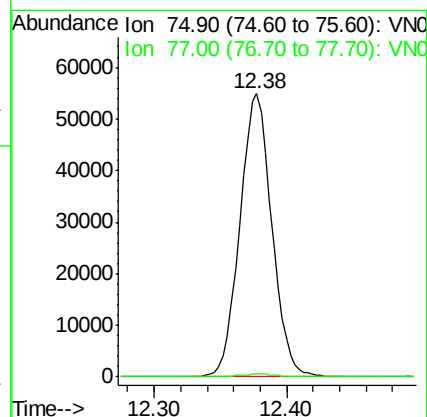
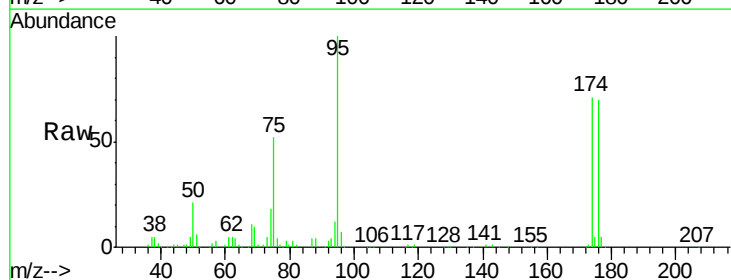
Instrument :
MSVOA_N
ClientSampleId :
PB130035ZHE#01

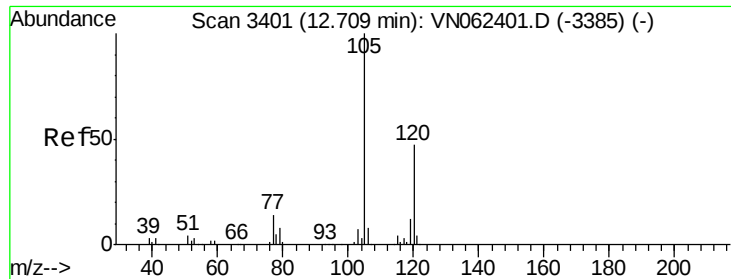
Tot Ion: 43 Resp: 2793
Ion Ratio Lower Upper
43 100
70 0.0 30.0 45.0#
55 0.0 18.2 27.4#
61 0.0 17.7 26.5#



#76
1,2,3-Trichloropropane
Concen: 27.448 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN062470.D
Acq: 9 Jul 2020 21:26

Tgt Ion: 75 Resp: 91884
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.425 ug/l

RT: 12.71 min Scan# 3402

Delta R.T. 0.00 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

Instrument :

MSVOA_N

ClientSampleId :

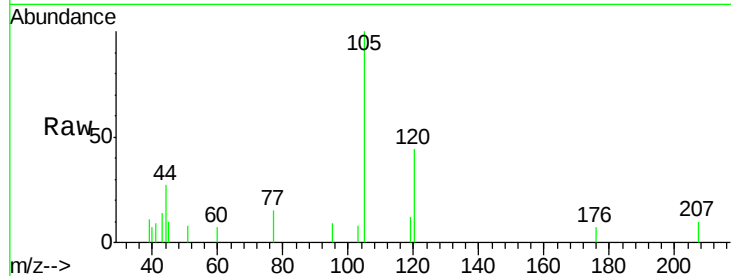
PB130035ZHE#01

Tot Ion:105 Resp: 3676

Ion Ratio Lower Upper

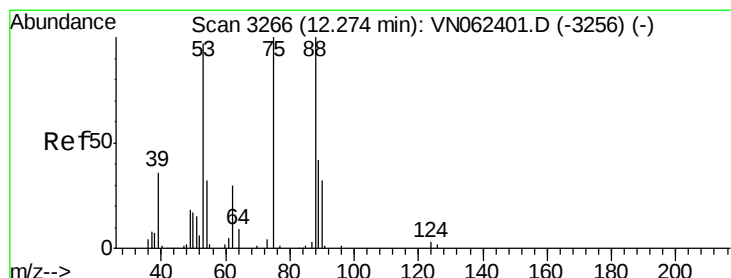
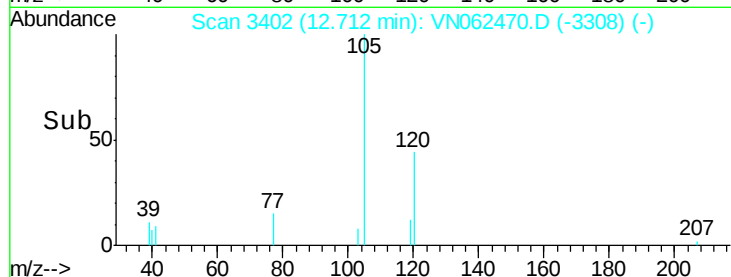
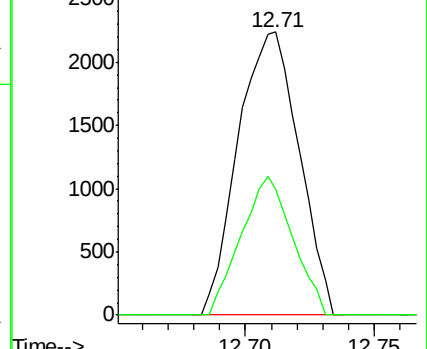
105 100

120 41.5 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 73.467 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062470.D

Acq: 9 Jul 2020 21:26

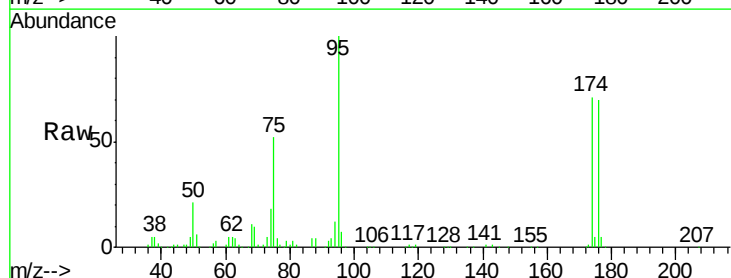
Tgt Ion: 75 Resp: 91884

Ion Ratio Lower Upper

75 100

53 0.0 79.2 118.8#

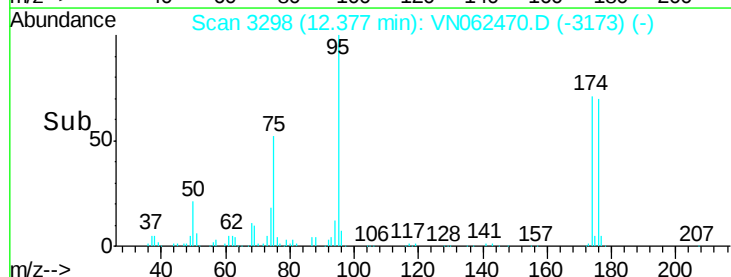
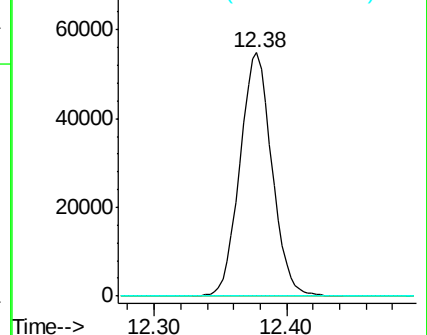
89 0.0 34.6 52.0#

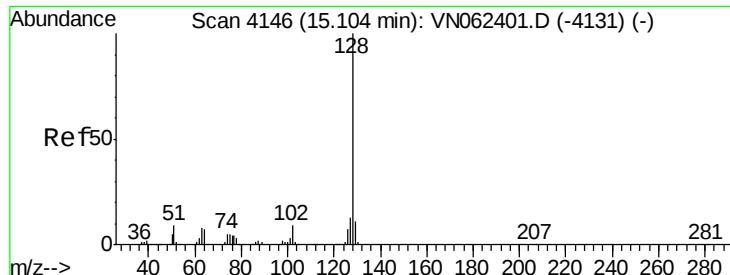


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: Below Cal

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062470.D

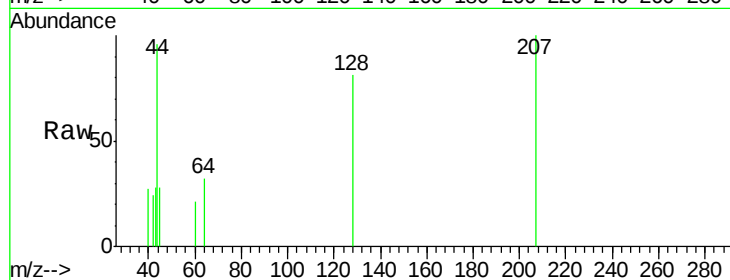
Acq: 9 Jul 2020 21:26

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#01



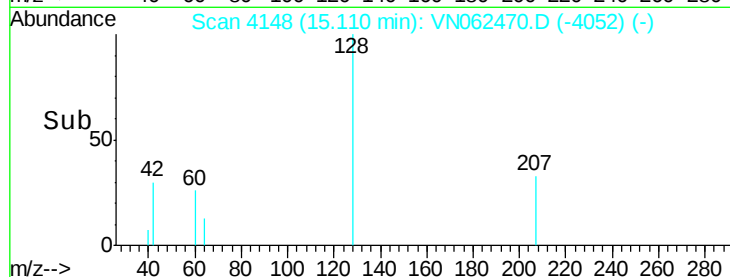
Tot Ion:128 Resp: 977

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 12.8#



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

