

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070920\
 Data File : VN062473.D
 Acq On : 9 Jul 2020 22:39
 Operator : JC/MD
 Sample : PB130035ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130035ZHE#04

Quant Time: Jul 10 02:10:10 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	191675	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	358331	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	343668	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	126061	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	151865	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
35) Dibromofluoromethane	7.55	113	111582	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	
50) Toluene-d8	10.06	98	463585	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	
62) 4-Bromofluorobenzene	12.38	95	165009	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	

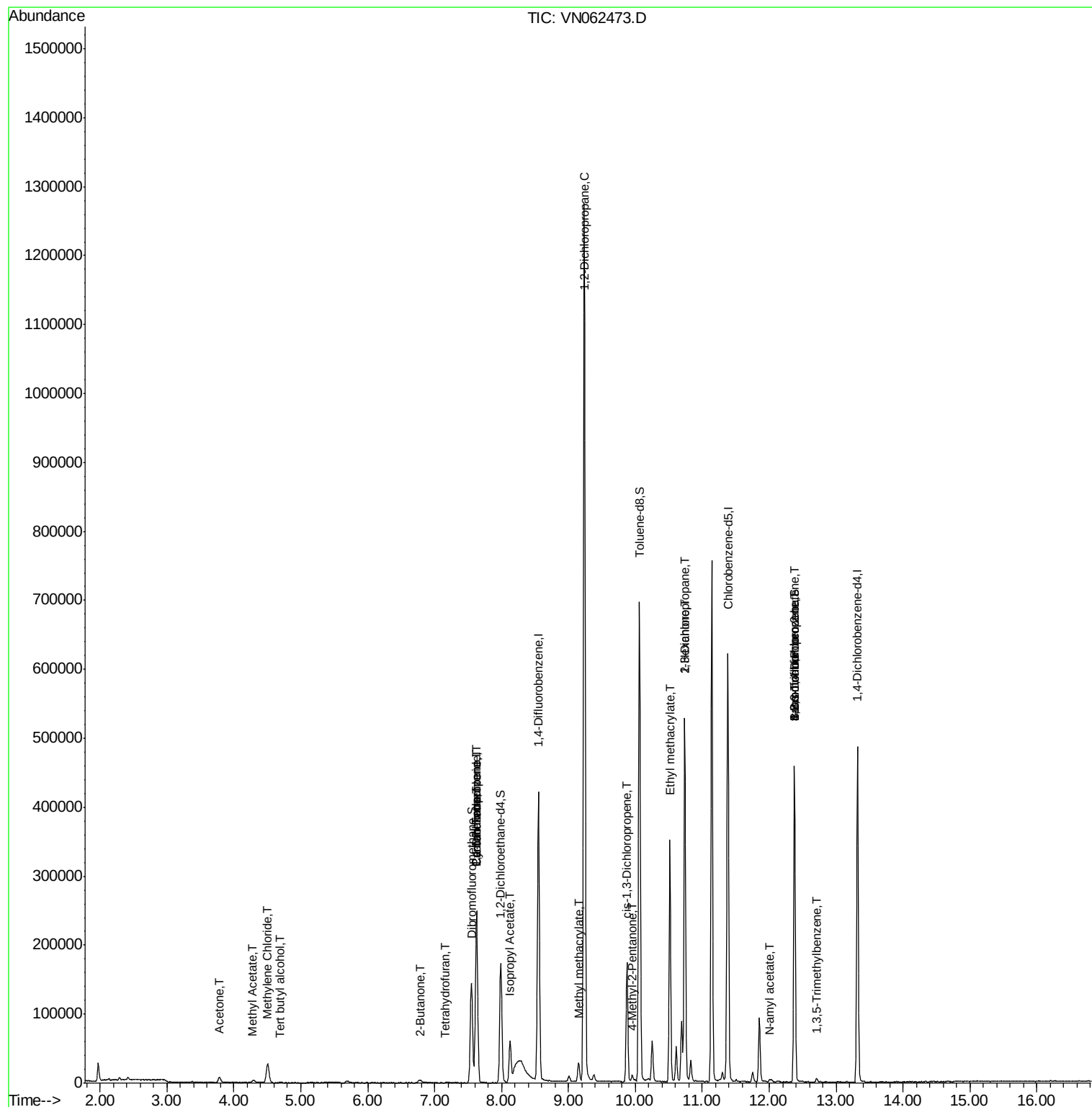
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.69	59	567	1.159	ug/l #	74
16) Acetone	3.78	43	13857	11.071	ug/l	97
18) Methyl Acetate	4.28	43	5887	1.885	ug/l #	90
20) Methylene Chloride	4.50	84	19365	7.236	ug/l	92
25) 2-Butanone	6.79	43	2670	1.461	ug/l	97
29) Tetrahydrofuran	7.17	42	291	0.236	ug/l #	39
31) Cyclohexane	7.63	56	4701	1.050	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	16751	4.640	ug/l #	52
38) Carbon Tetrachloride	7.63	117	19903	6.132	ug/l #	16
43) Isopropyl Acetate	8.13	43	75157	11.270	ug/l #	92
45) 1,2-Dichloropropane	9.24	63	1295	0.419	ug/l #	44
48) Methyl methacrylate	9.15	41	4555	1.392	ug/l #	17
51) 4-Methyl-2-Pentanone	9.96	43	7472	1.876	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	28825	6.257	ug/l #	61
56) Ethyl methacrylate	10.51	69	1025	1.934	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	5083	1.138	ug/l #	43
59) 2-Hexanone	10.74	43	81297	28.115	ug/l #	54
71) Bromoform	12.38	173	875	0.485	ug/l #	1
74) N-amyl acetate	12.01	43	1829	0.385	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	85929	27.781	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3213	0.402	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	85929	74.358	ug/l #	10
95) Naphthalene	15.10	128	914	Below Cal	#	70

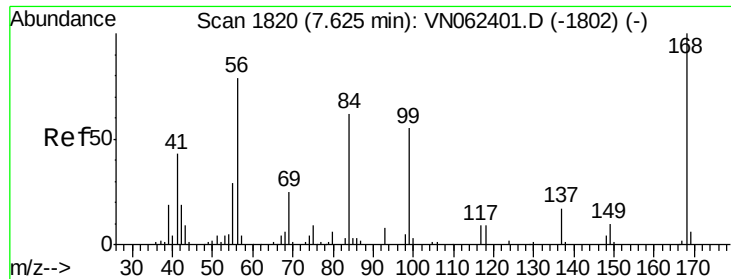
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN062473.D

Acq: 9 Jul 2020 22:39

Instrument :

MSVOA_N

ClientSampleId :

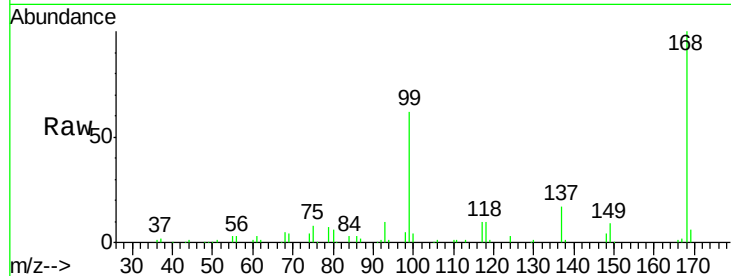
PB130035ZHE#04

Tot Ion:168 Resp: 191675

Ion Ratio Lower Upper

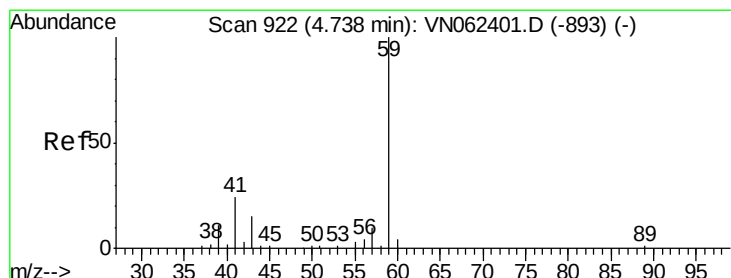
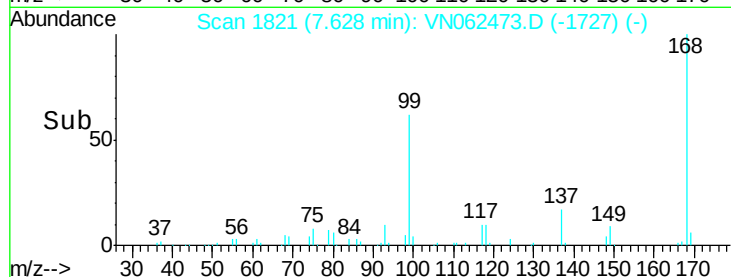
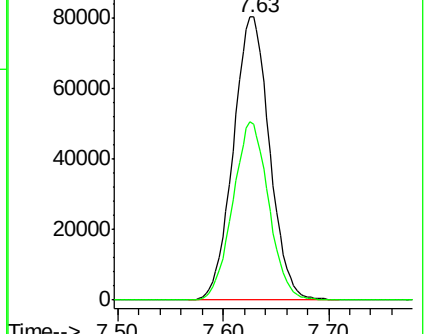
168 100

99 62.0 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.159 ug/l

RT: 4.69 min Scan# 907

Delta R.T. -0.05 min

Lab File: VN062473.D

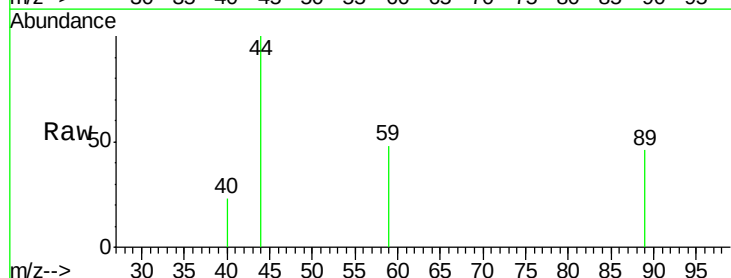
Acq: 9 Jul 2020 22:39

Tgt Ion: 59 Resp: 567

Ion Ratio Lower Upper

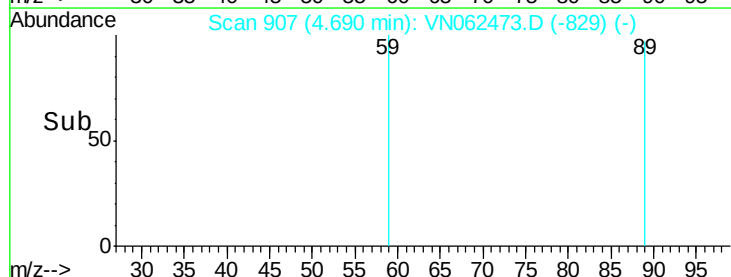
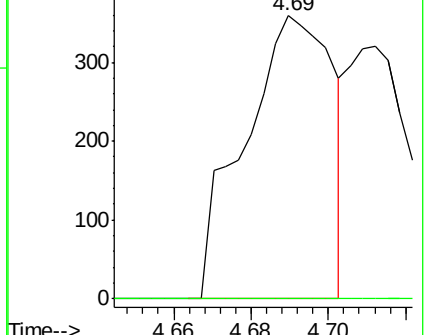
59 100

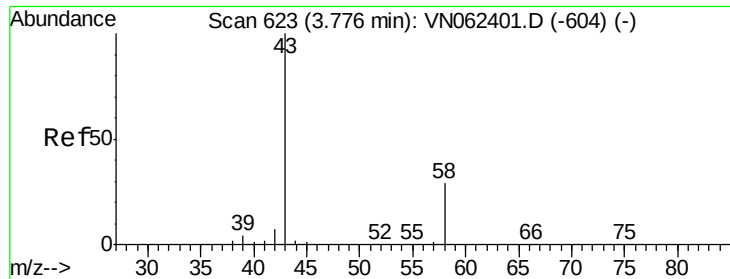
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

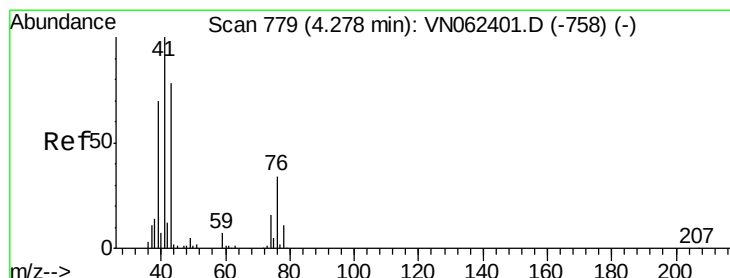
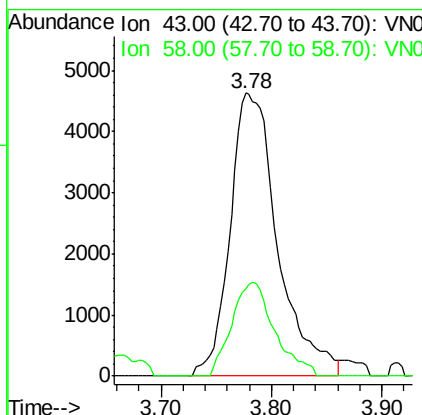
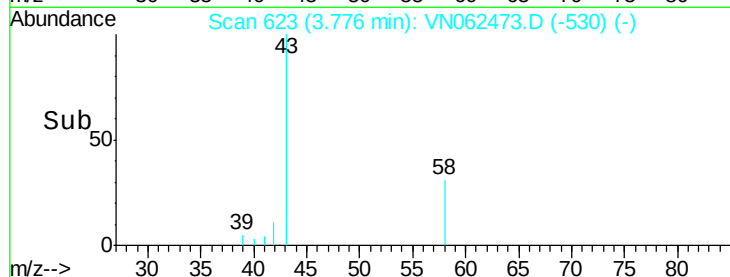
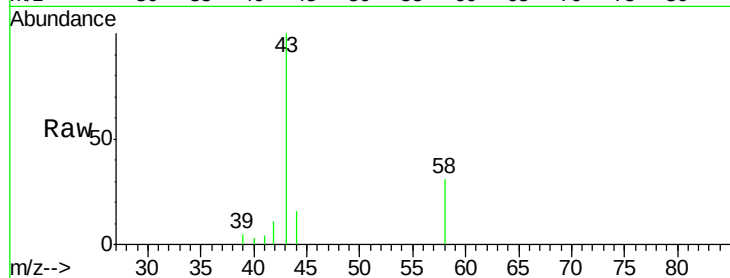




#16
 Acetone
 Concen: 11.071 ug/l
 RT: 3.78 min Scan# 623
 Delta R.T. 0.00 min
 Lab File: VN062473.D
 Acq: 9 Jul 2020 22:39

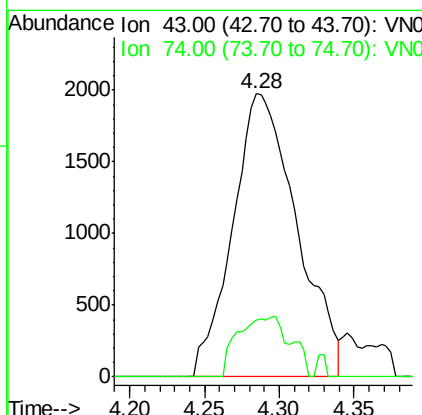
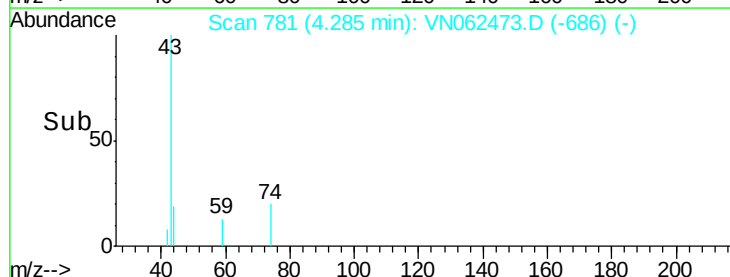
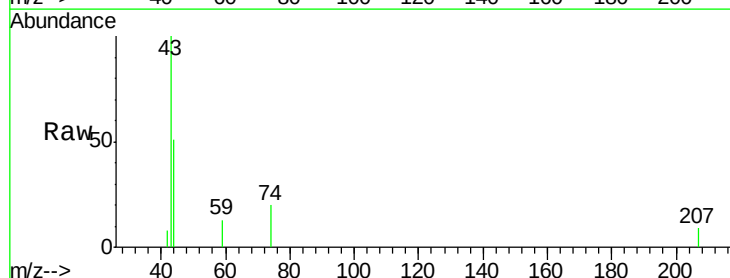
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130035ZHE#04

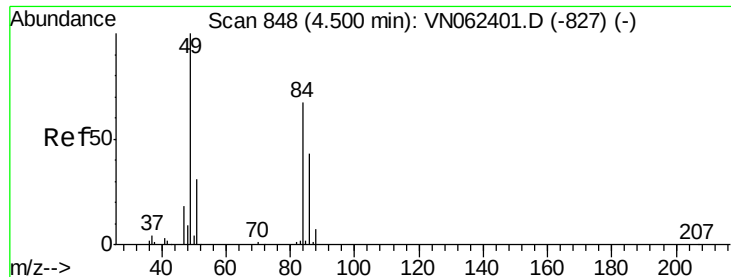
Tot Ion: 43 Resp: 13857
 Ion Ratio Lower Upper
 43 100
 58 31.0 23.5 35.3



#18
 Methyl Acetate
 Concen: 1.885 ug/l
 RT: 4.28 min Scan# 781
 Delta R.T. 0.01 min
 Lab File: VN062473.D
 Acq: 9 Jul 2020 22:39

Tgt Ion: 43 Resp: 5887
 Ion Ratio Lower Upper
 43 100
 74 15.2 16.0 24.0#

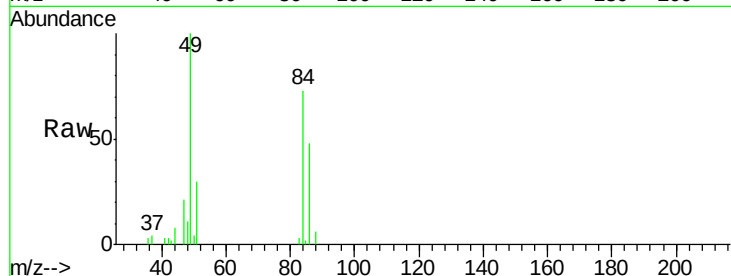




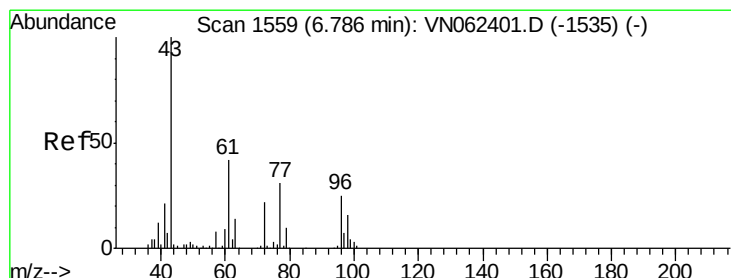
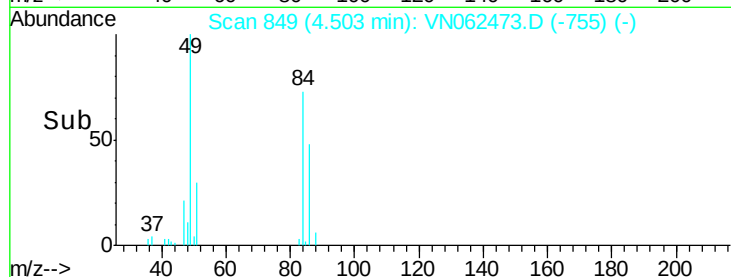
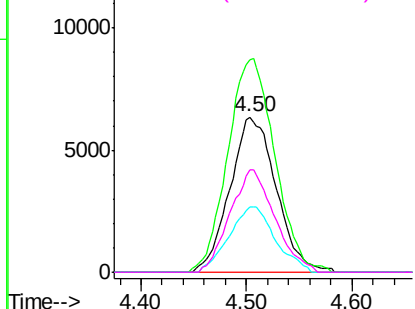
#20
Methylene Chloride
Concen: 7.236 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062473.D
Acq: 9 Jul 2020 22:39

Instrument :
MSVOA_N
ClientSampleId :
PB130035ZHE#04

Tot Ion: 84 Resp: 19365
Ion Ratio Lower Upper
84 100
49 137.3 120.0 180.0
51 41.7 37.0 55.6
86 66.5 51.8 77.6

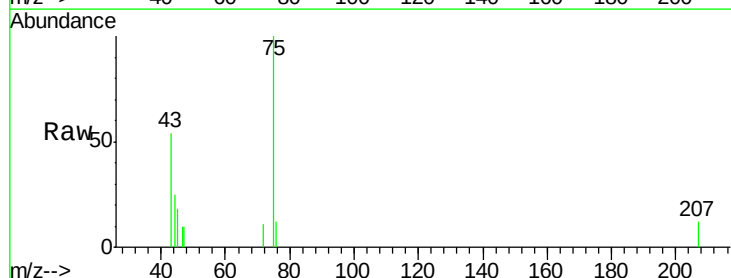


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

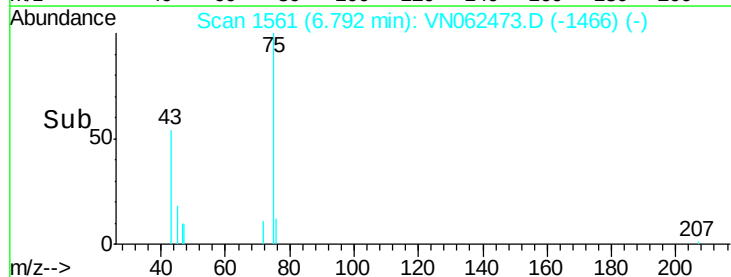
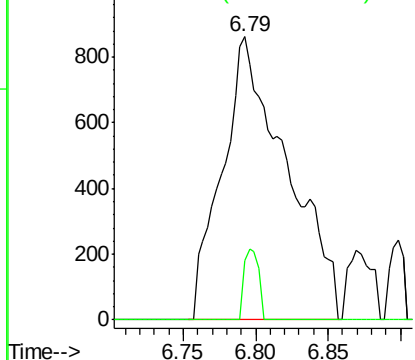


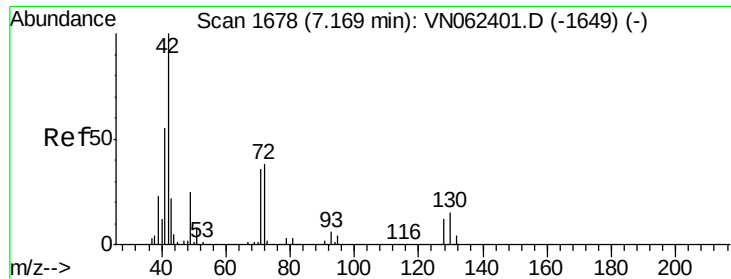
#25
2-Butanone
Concen: 1.461 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN062473.D
Acq: 9 Jul 2020 22:39

Tgt Ion: 43 Resp: 2670
Ion Ratio Lower Upper
43 100
72 21.0 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: 0.236 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#04

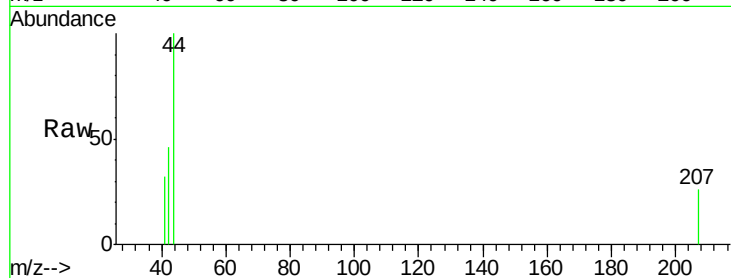
Tot Ion: 42 Resp: 291

Ion Ratio Lower Upper

42 100

72 0.0 29.1 43.7#

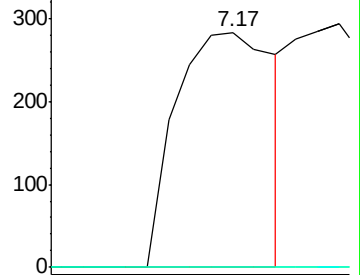
71 0.0 28.1 42.1#



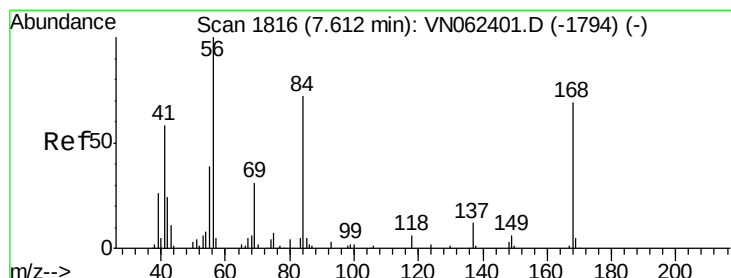
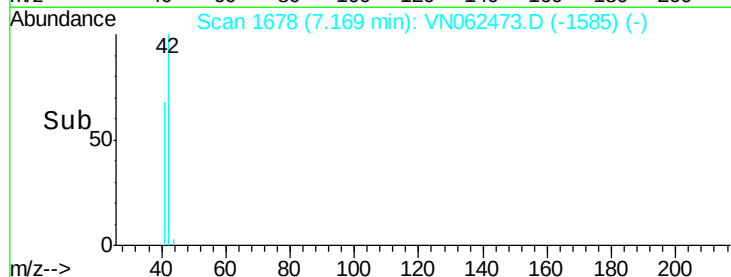
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: 1.050 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

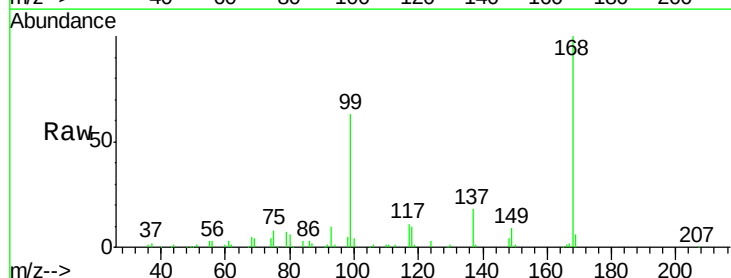
Tgt Ion: 56 Resp: 4701

Ion Ratio Lower Upper

56 100

69 169.0 24.5 36.7#

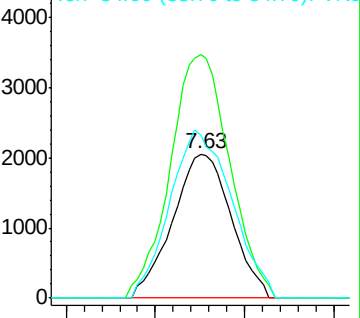
84 113.1 57.4 86.2#



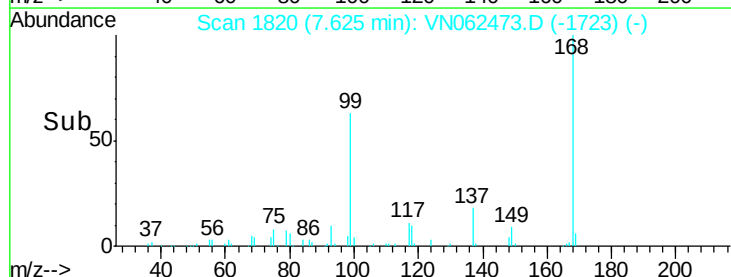
Abundance Ion 56.00 (55.70 to 56.70): VN0

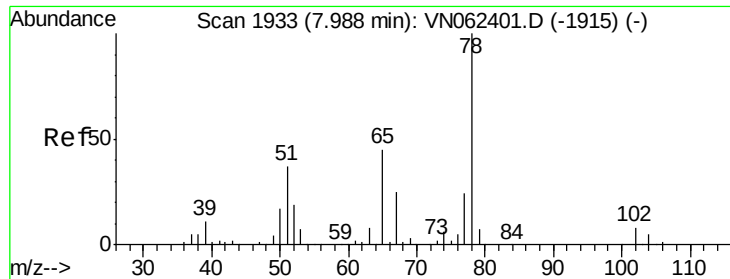
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->

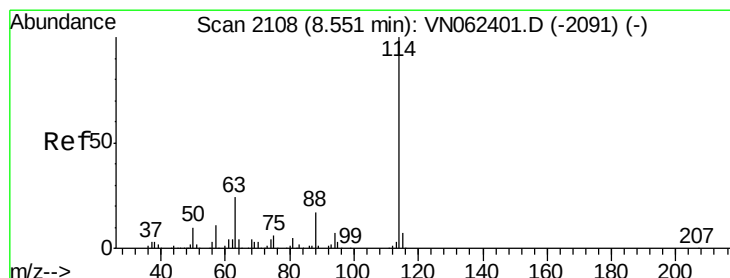
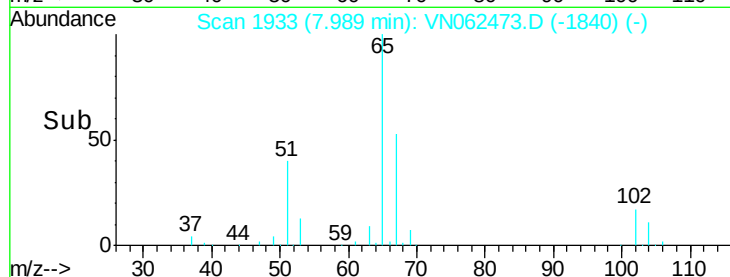
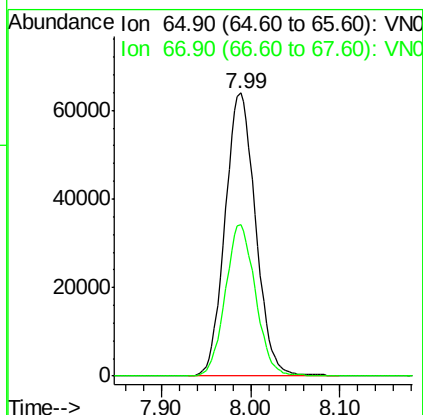
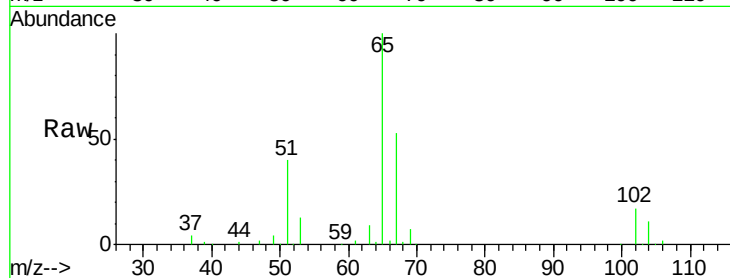




#33
 1,2-Dichloroethane-d4
 Concen: 51.511 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062473.D
 Acq: 9 Jul 2020 22:39

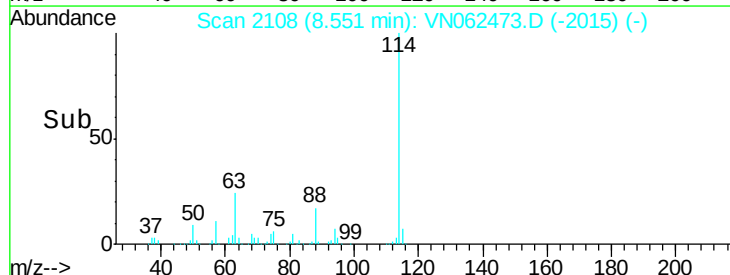
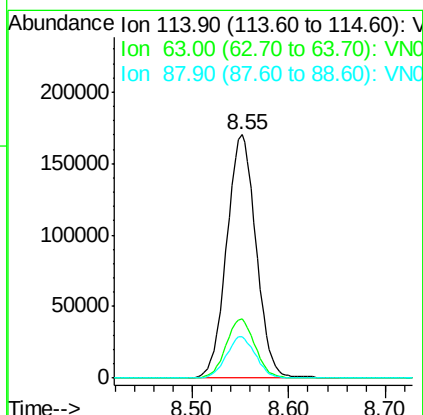
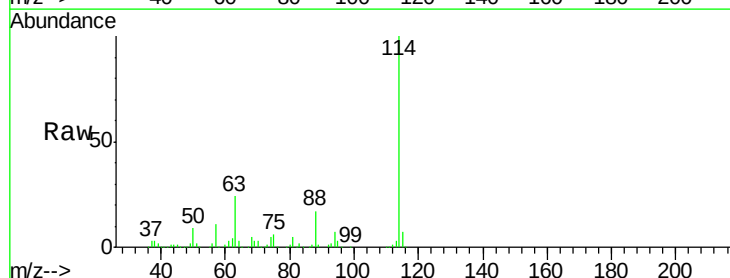
Instrument :
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 PB130035ZHE#04

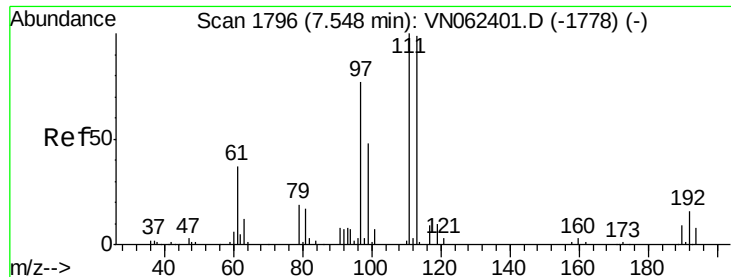
Tot Ion: 65 Resp: 151865
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062473.D
 Acq: 9 Jul 2020 22:39

Tgt Ion: 114 Resp: 358331
 Ion Ratio Lower Upper
 114 100
 63 24.3 0.0 48.4
 88 16.8 0.0 33.8





#35

Dibromofluoromethane

Concen: 50.376 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#04

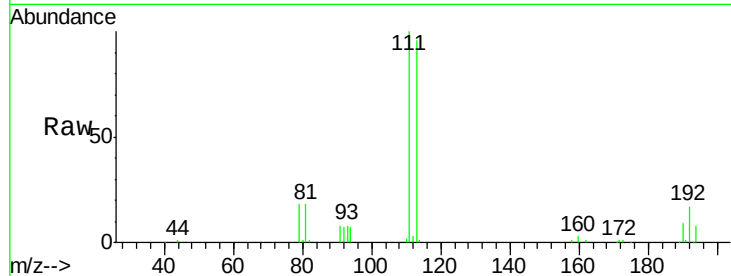
Tot Ion:113 Resp: 111582

Ion Ratio Lower Upper

113 100

111 103.8 83.1 124.7

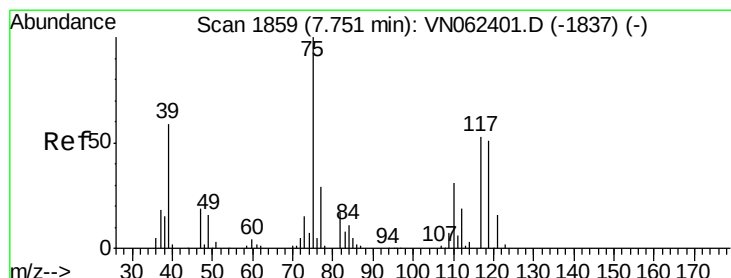
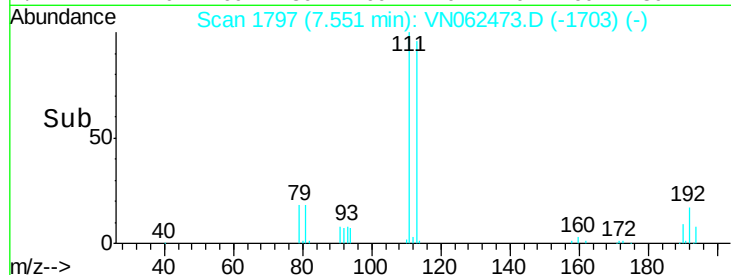
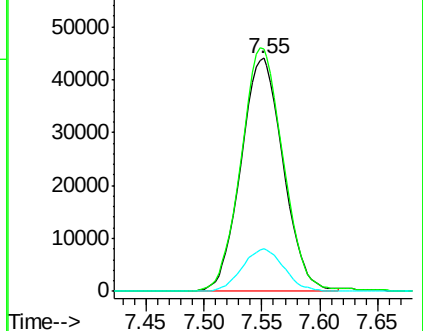
192 17.9 14.1 21.1



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: 4.640 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.12 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

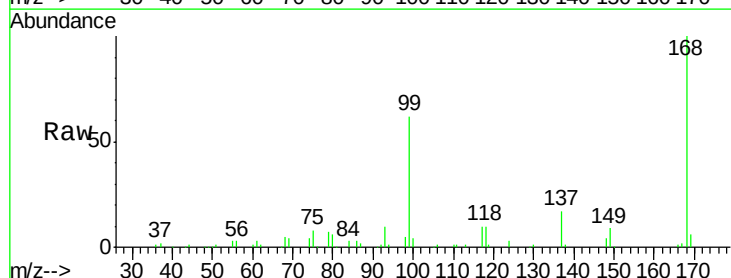
Tgt Ion: 75 Resp: 16751

Ion Ratio Lower Upper

75 100

110 8.2 15.4 46.2#

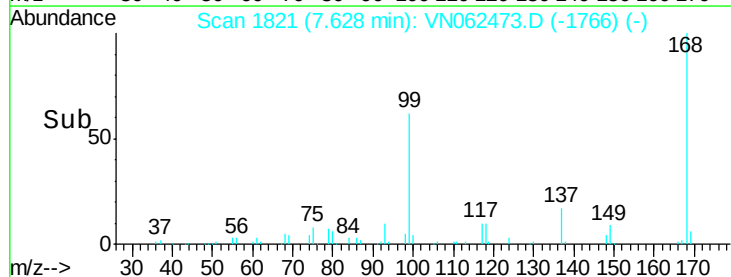
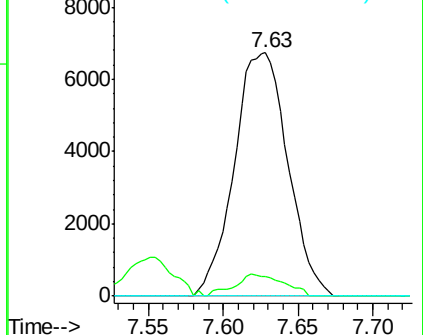
77 0.0 24.1 36.1#

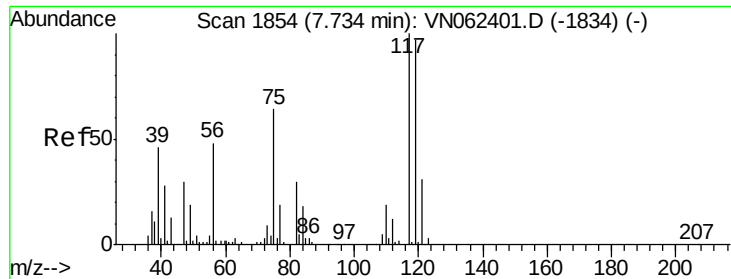


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.132 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#04

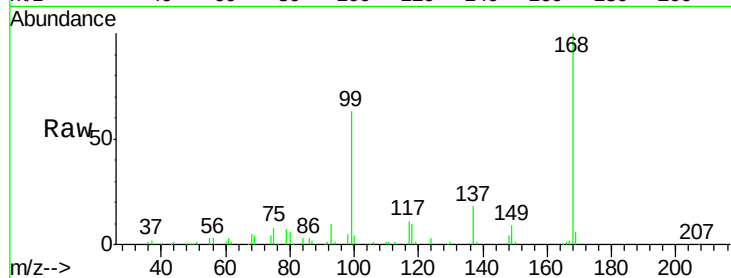
Tot Ion:117 Resp: 19903

Ion Ratio Lower Upper

117 100

119 6.0 77.2 115.8#

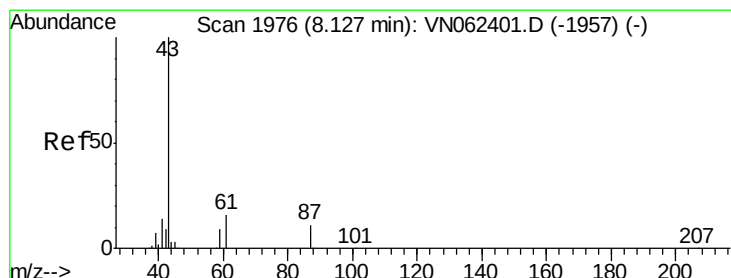
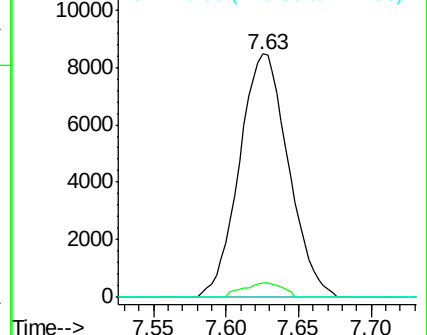
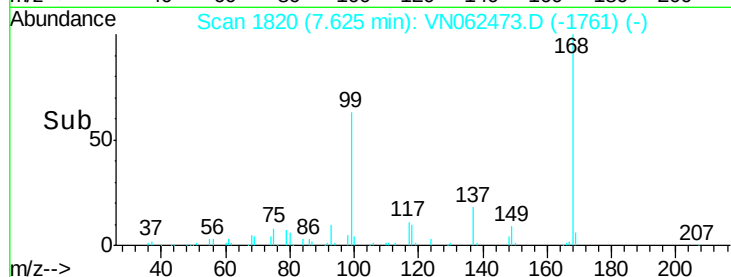
121 0.0 24.8 37.2#



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: 11.270 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

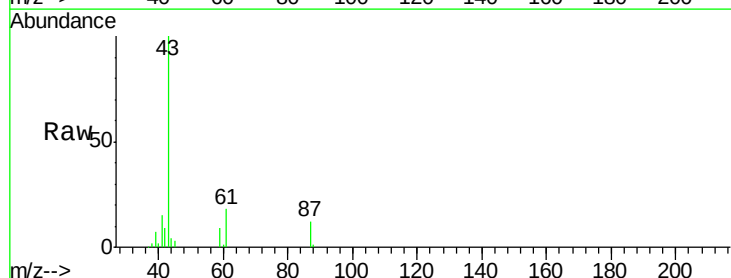
Tgt Ion: 43 Resp: 75157

Ion Ratio Lower Upper

43 100

61 18.3 19.3 28.9#

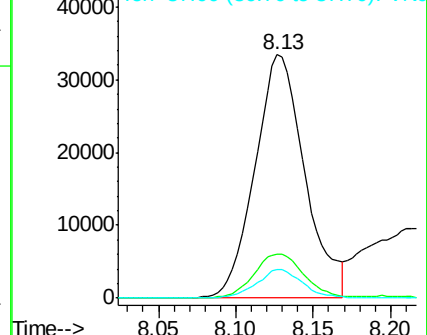
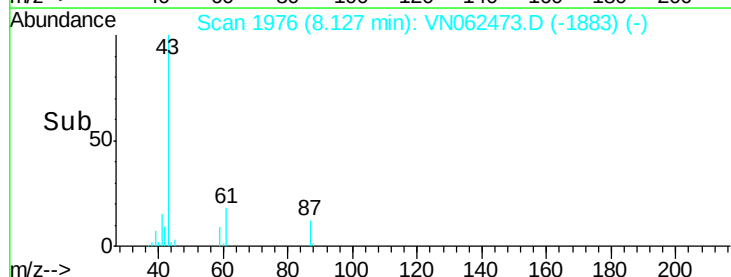
87 10.7 8.6 13.0

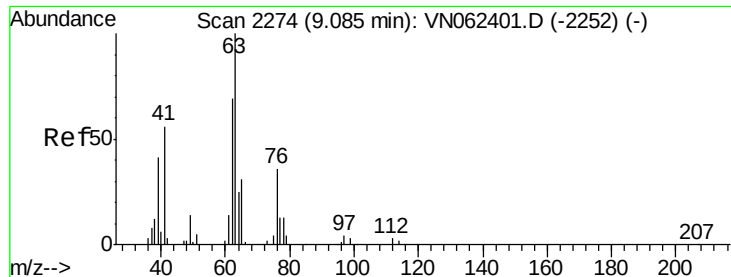


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.419 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

Instrument :

MSVOA_N

ClientSampleId :

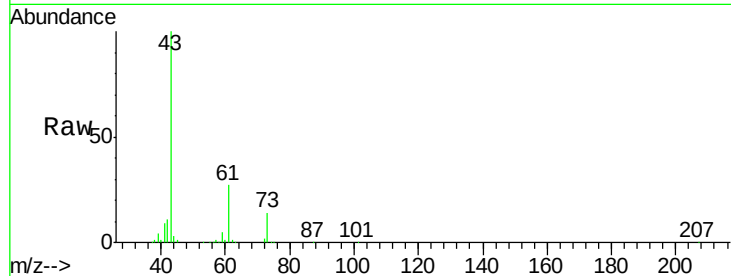
PB130035ZHE#04

Tot Ion: 63 Resp: 1295

Ion Ratio Lower Upper

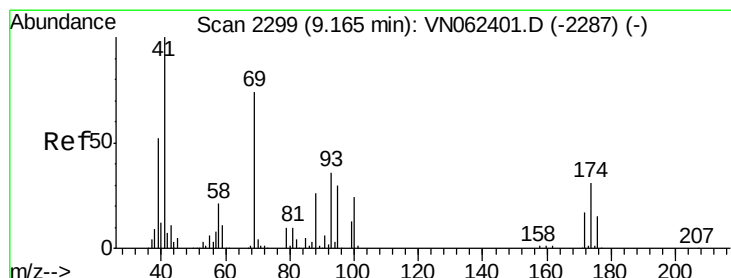
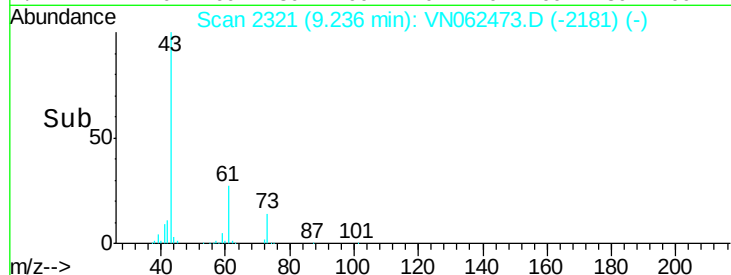
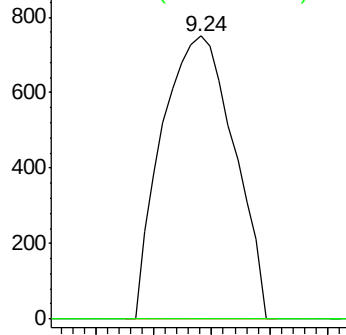
63 100

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: 1.392 ug/l

RT: 9.15 min Scan# 2294

Delta R.T. -0.02 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

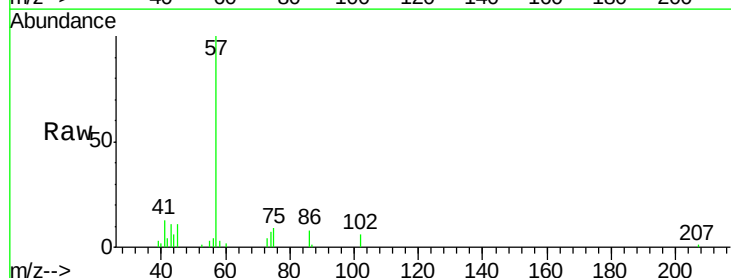
Tgt Ion: 41 Resp: 4555

Ion Ratio Lower Upper

41 100

69 0.0 60.8 91.2#

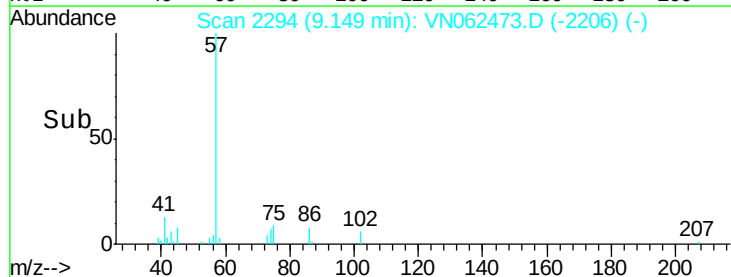
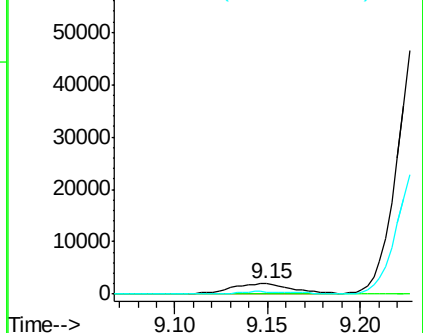
39 0.0 43.5 65.3#

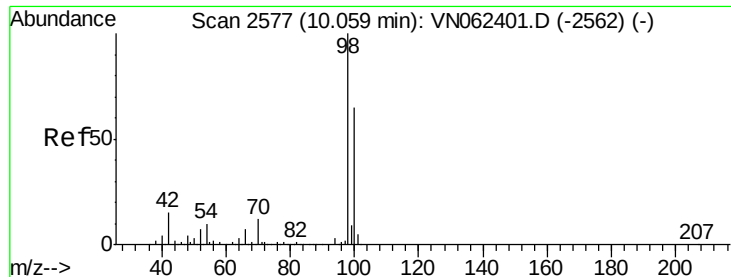


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 53.017 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

Instrument :

MSVOA_N

ClientSampleId :

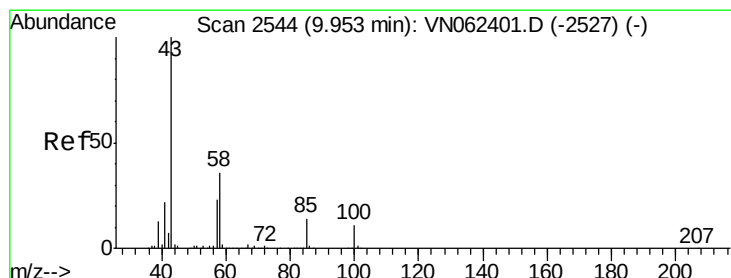
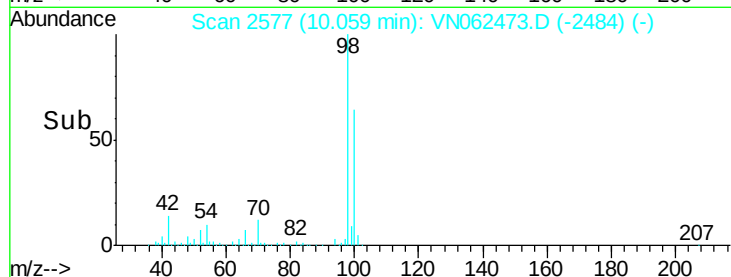
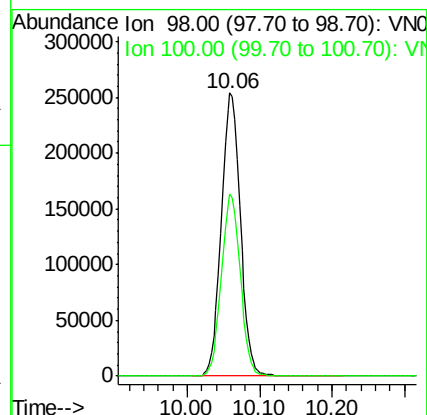
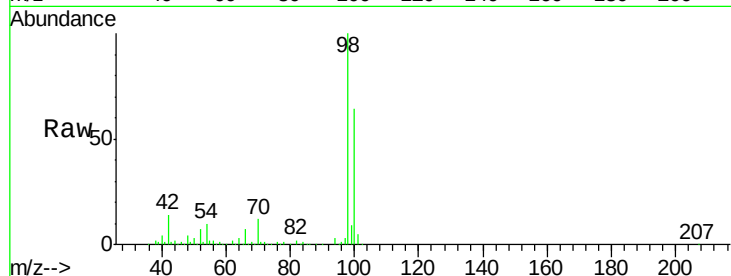
PB130035ZHE#04

Tot Ion: 98 Resp: 463585

Ion Ratio Lower Upper

98 100

100 63.7 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 1.876 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062473.D

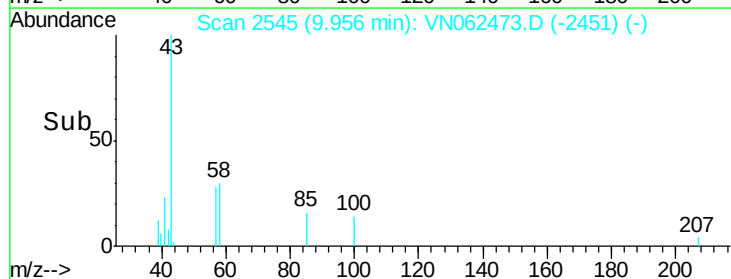
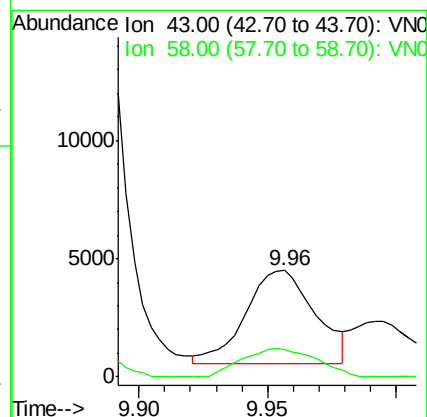
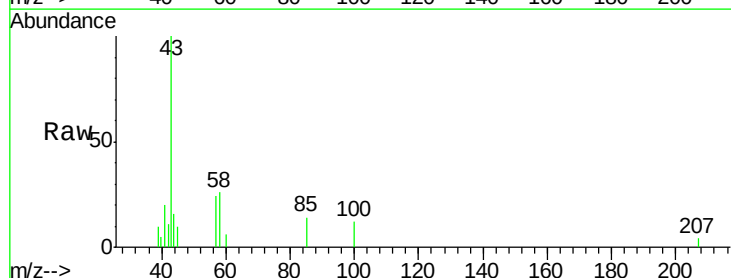
Acq: 9 Jul 2020 22:39

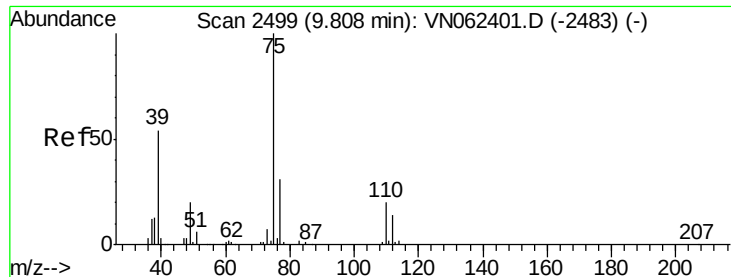
Tgt Ion: 43 Resp: 7472

Ion Ratio Lower Upper

43 100

58 32.3 29.0 43.6





#54

cis-1,3-Dichloropropene

Concen: 6.257 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#04

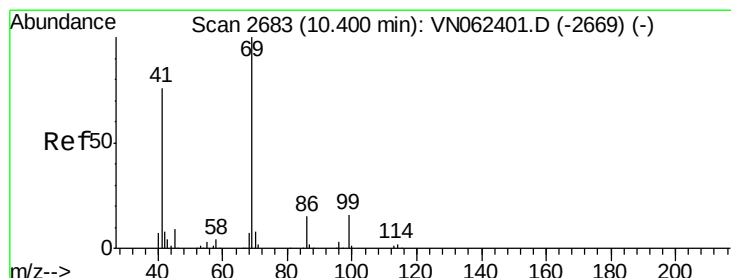
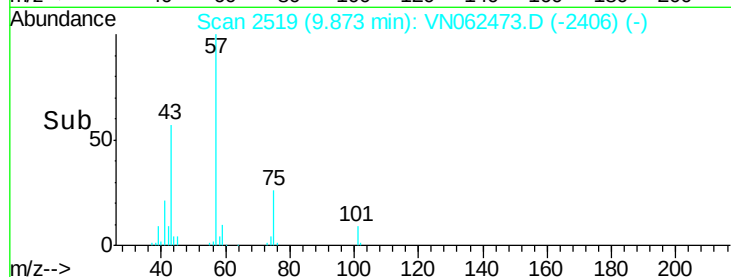
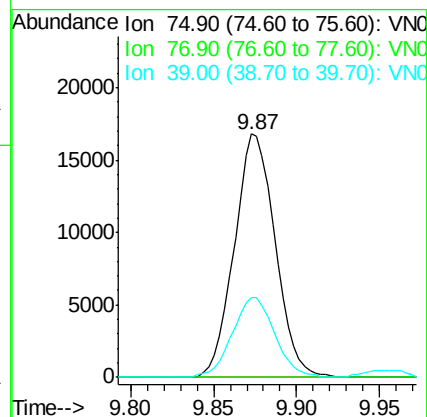
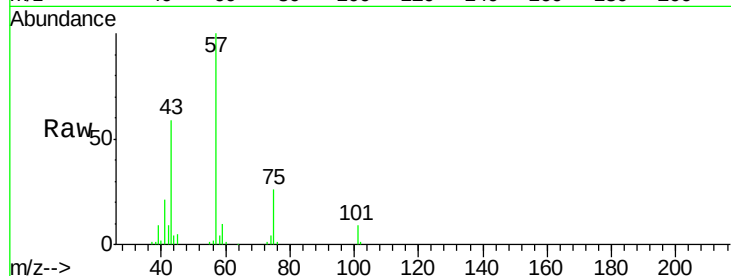
Tot Ion: 75 Resp: 28825

Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#

39 32.9 43.4 65.0#



#56

Ethyl methacrylate

Concen: 1.934 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

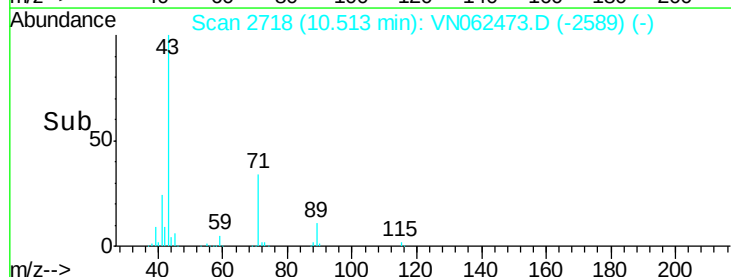
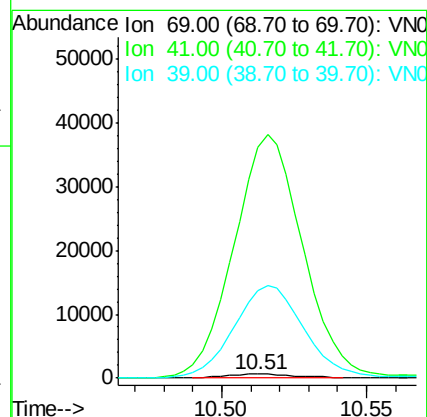
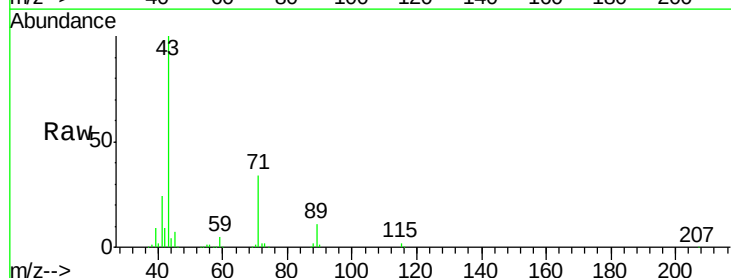
Tgt Ion: 69 Resp: 1025

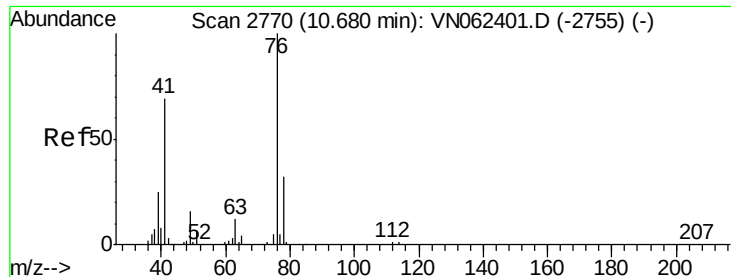
Ion Ratio Lower Upper

69 100

41 6193.5 59.7 89.5#

39 2389.1 30.6 45.8#





#57

1,3-Dichloropropane

Concen: 1.138 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

Instrument :

MSVOA_N

ClientSampleId :

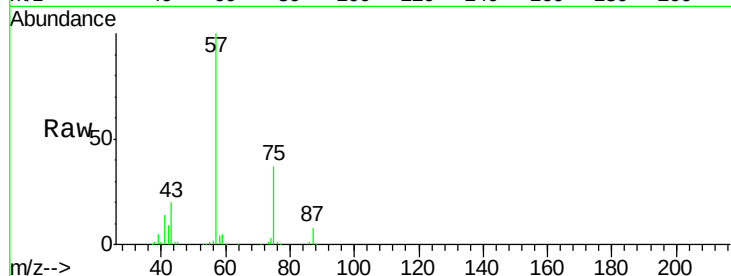
PB130035ZHE#04

Tot Ion: 76 Resp: 5083

Ion Ratio Lower Upper

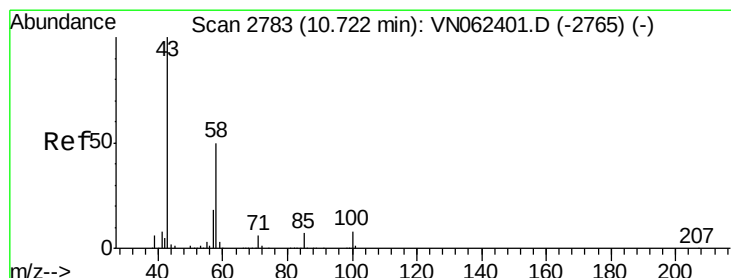
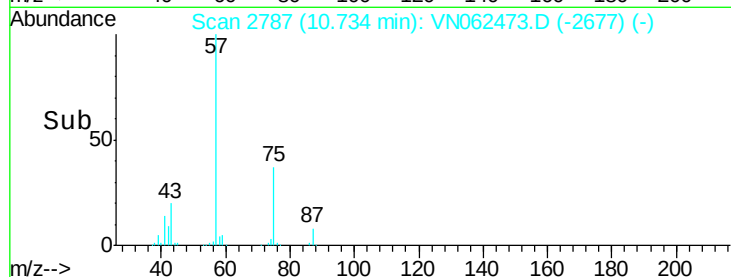
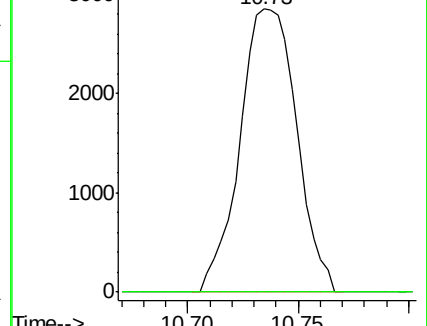
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 28.115 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN062473.D

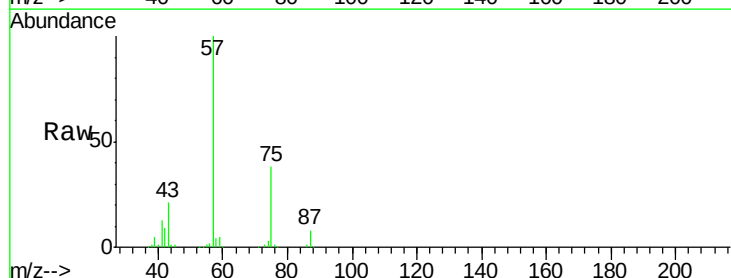
Acq: 9 Jul 2020 22:39

Tgt Ion: 43 Resp: 81297

Ion Ratio Lower Upper

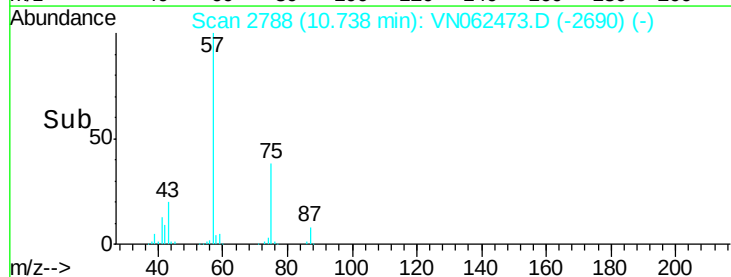
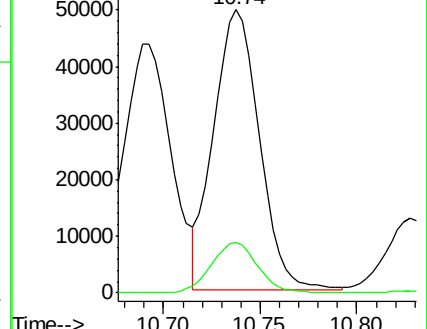
43 100

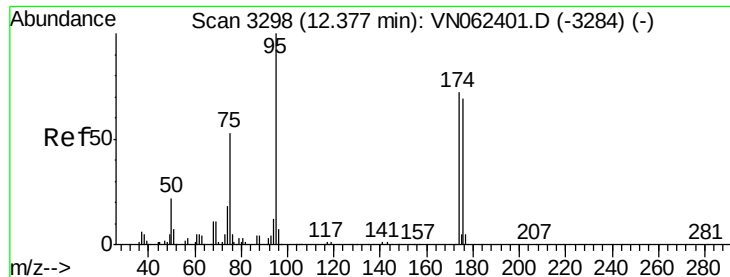
58 18.3 25.1 75.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

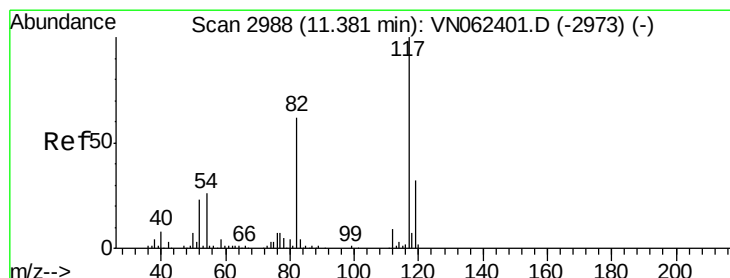
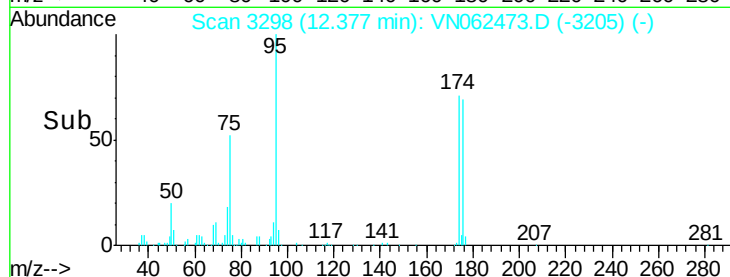
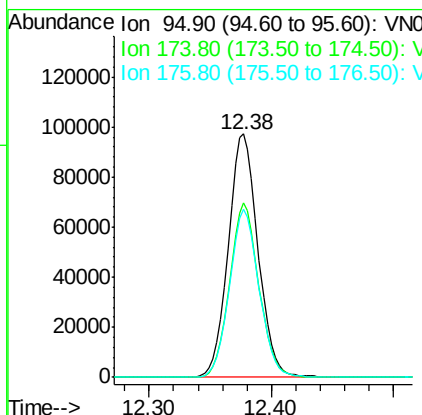
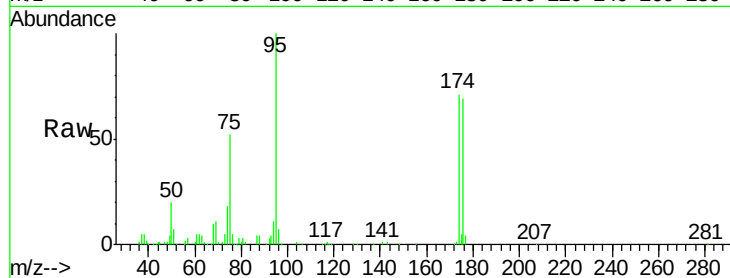




#62
4-Bromofluorobenzene
Concen: 51.640 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062473.D
Acq: 9 Jul 2020 22:39

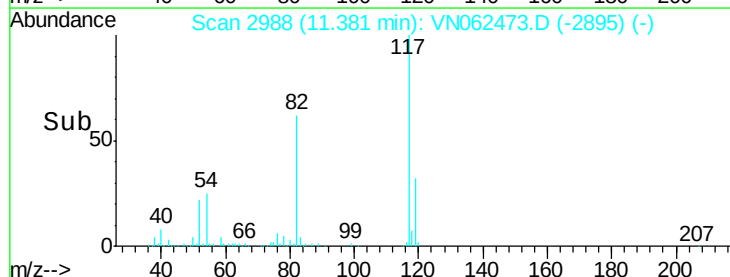
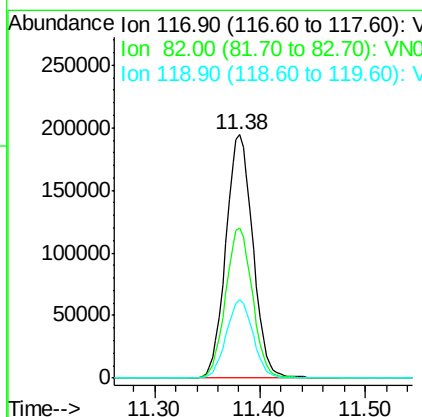
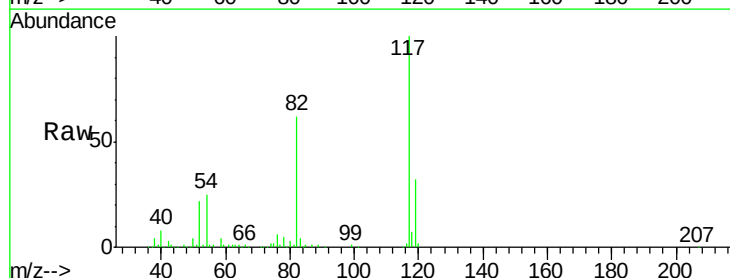
Instrument :
MSVOA_N
ClientSampleId :
PB130035ZHE#04

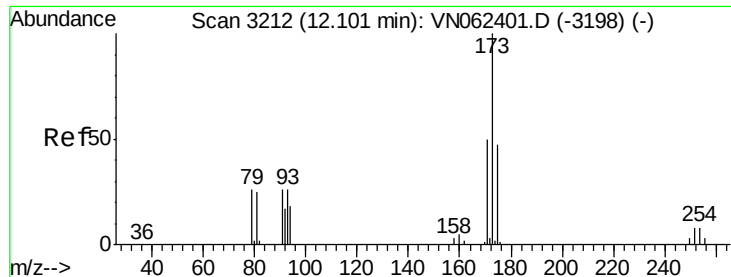
Tot Ion: 95 Resp: 165009
Ion Ratio Lower Upper
95 100
174 70.6 0.0 141.6
176 68.6 0.0 137.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062473.D
Acq: 9 Jul 2020 22:39

Tgt Ion: 117 Resp: 343668
Ion Ratio Lower Upper
117 100
82 61.7 49.6 74.4
119 32.1 25.4 38.0





#71

Bromoform

Concen: 0.485 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#04

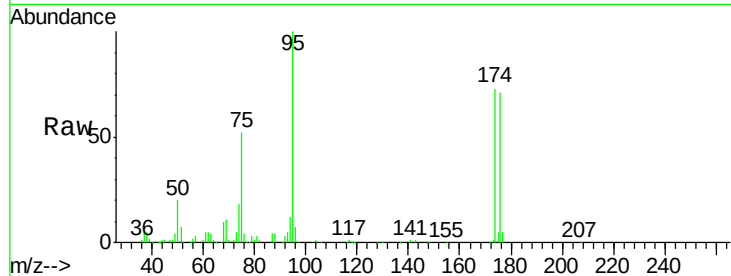
Tot Ion:173 Resp: 875

Ion Ratio Lower Upper

173 100

175 829.4 23.7 71.1#

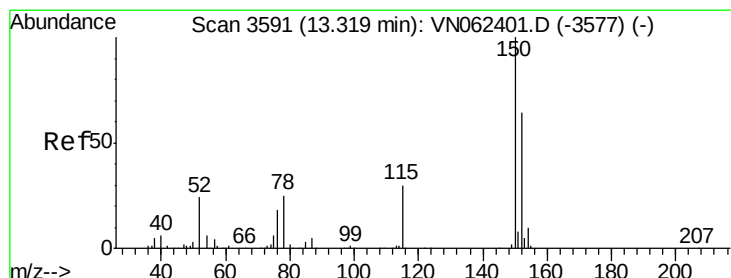
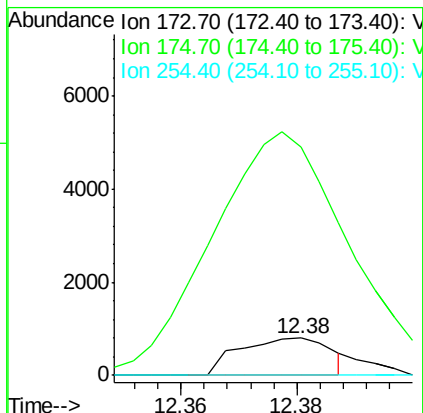
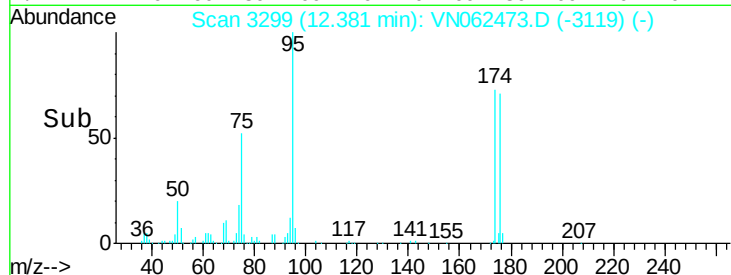
254 0.0 0.0 0.0



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: VN062473.D

Acq: 9 Jul 2020 22:39

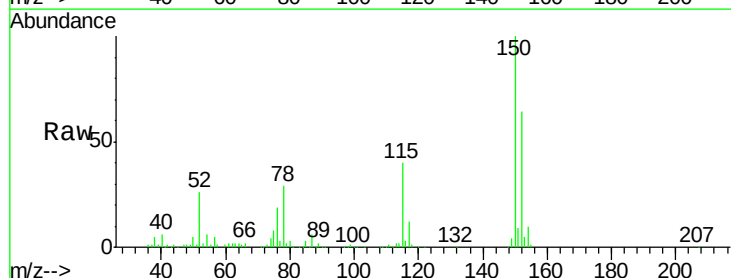
Tgt Ion:152 Resp: 126061

Ion Ratio Lower Upper

152 100

115 61.8 31.4 94.2

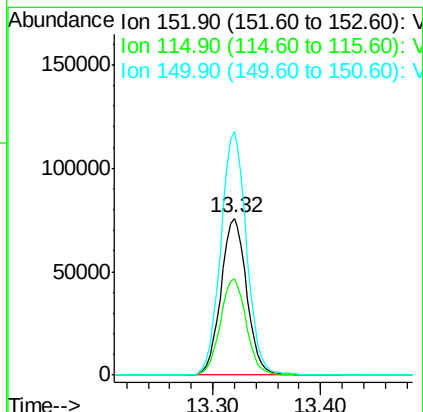
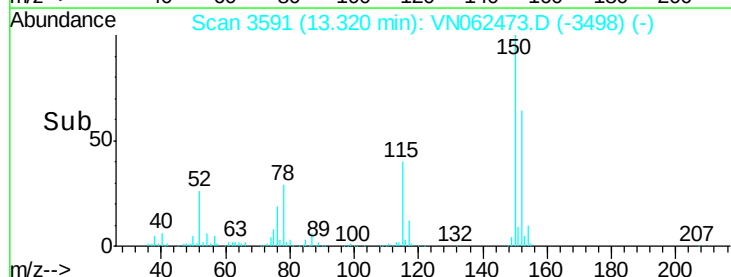
150 154.5 0.0 347.4

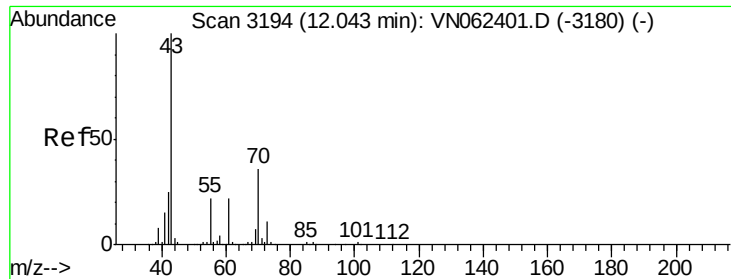


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.385 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#04

Tot Ion: 43 Resp: 1829

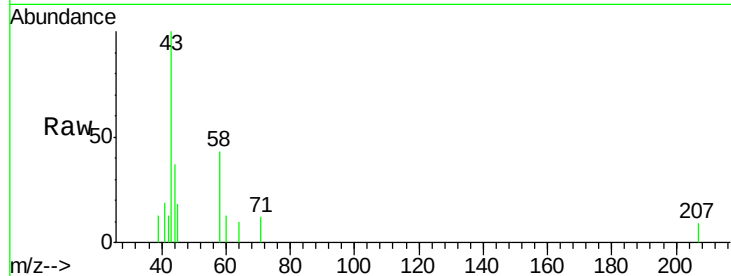
Ion Ratio Lower Upper

43 100

70 0.0 30.0 45.0#

55 0.0 18.2 27.4#

61 0.0 17.7 26.5#

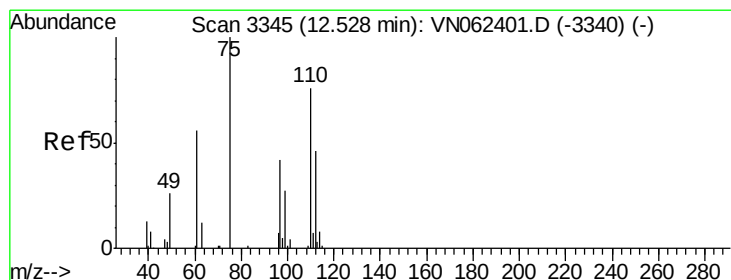
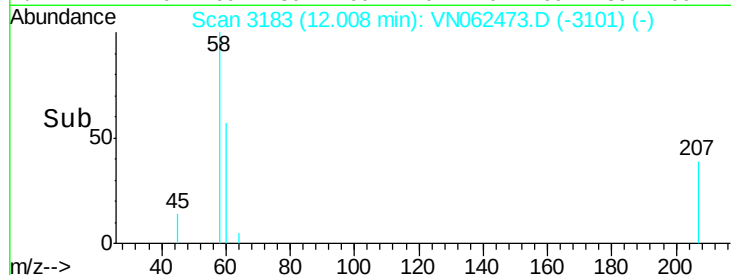
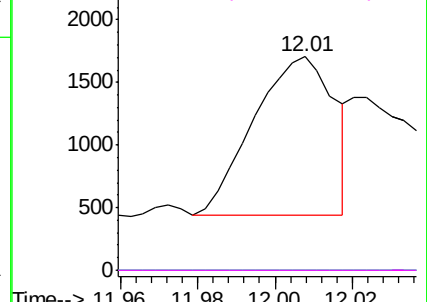


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 27.781 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062473.D

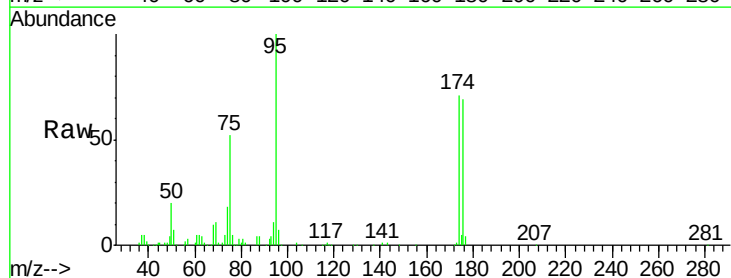
Acq: 9 Jul 2020 22:39

Tgt Ion: 75 Resp: 85929

Ion Ratio Lower Upper

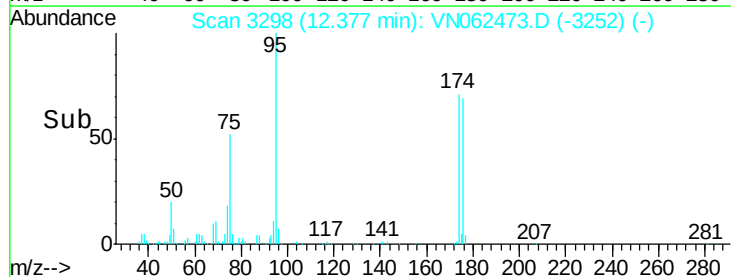
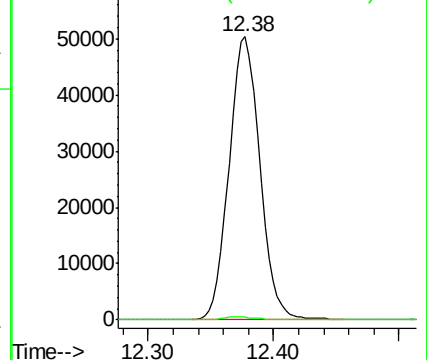
75 100

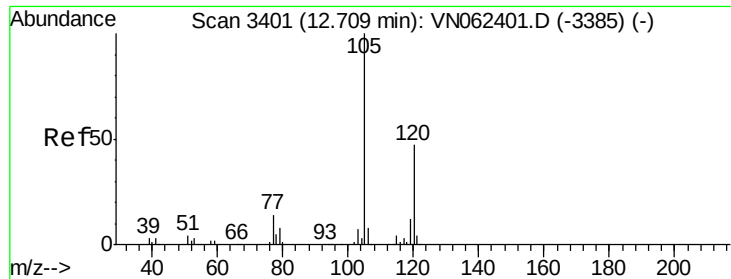
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.402 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

Instrument :

MSVOA_N

ClientSampleId :

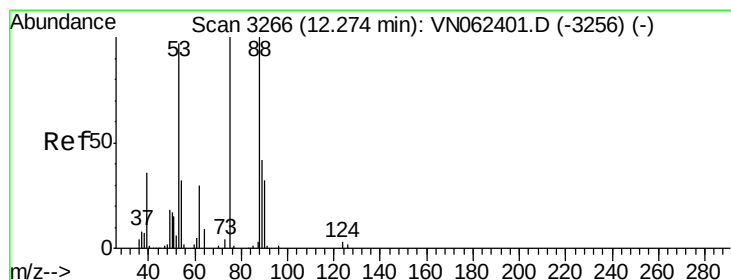
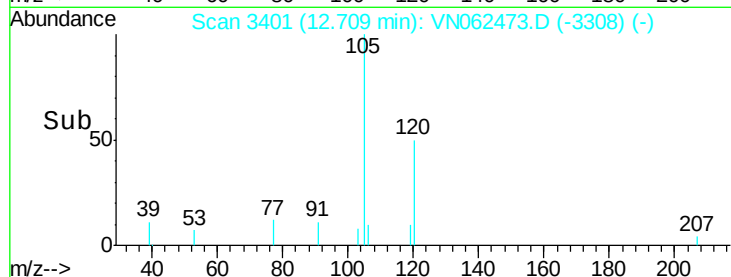
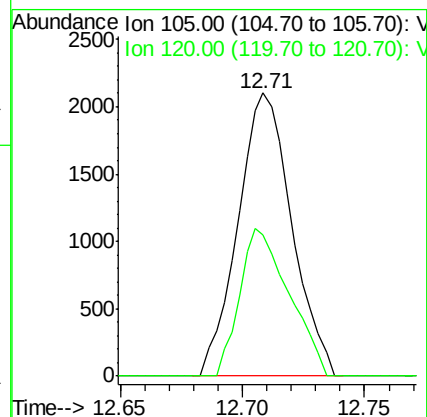
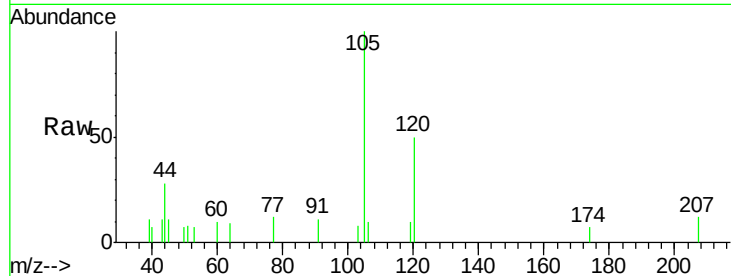
PB130035ZHE#04

Tot Ion:105 Resp: 3213

Ion Ratio Lower Upper

105 100

120 47.6 23.4 70.2



#81

trans-1,4-Dichloro-2-butene

Concen: 74.358 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062473.D

Acq: 9 Jul 2020 22:39

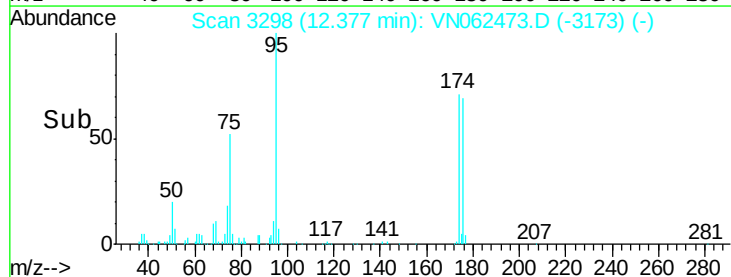
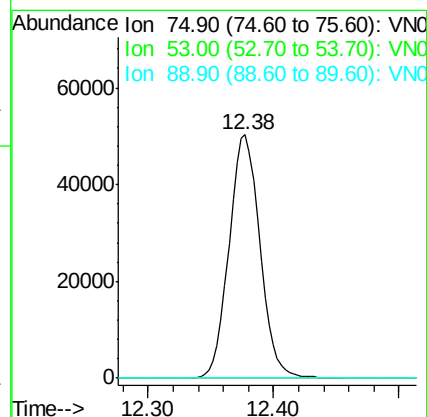
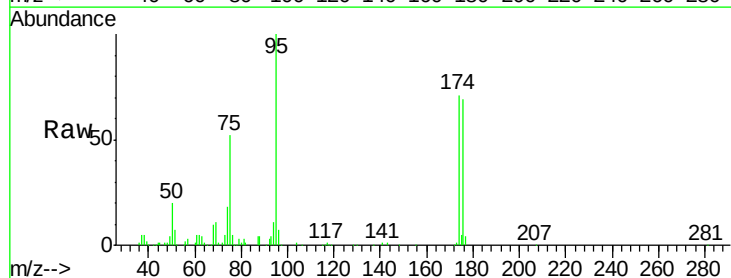
Tgt Ion: 75 Resp: 85929

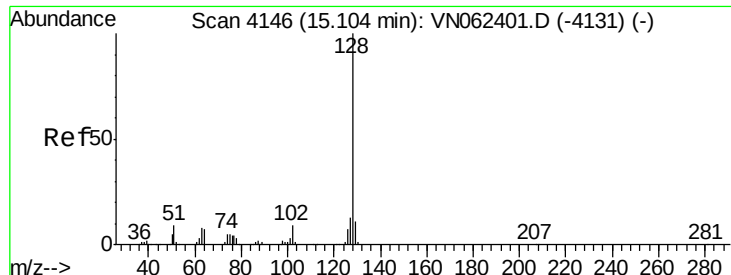
Ion Ratio Lower Upper

75 100

53 0.0 79.2 118.8#

89 0.0 34.6 52.0#

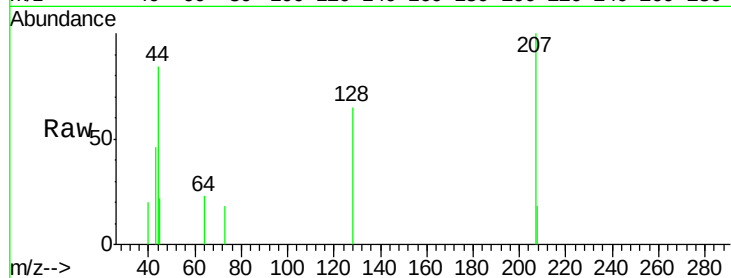




#95
Naphthalene
Concen: Below Cal
RT: 15.10 min Scan# 4146
Delta R.T. 0.00 min
Lab File: VN062473.D
Acq: 9 Jul 2020 22:39

Instrument :
MSVOA_N
ClientSampleId :
PB130035ZHE#04

Tot 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

