

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070920\
 Data File : VN062471.D
 Acq On : 9 Jul 2020 21:50
 Operator : JC/MD
 Sample : PB130035ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130035ZHE#02

Quant Time: Jul 10 02:09:23 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

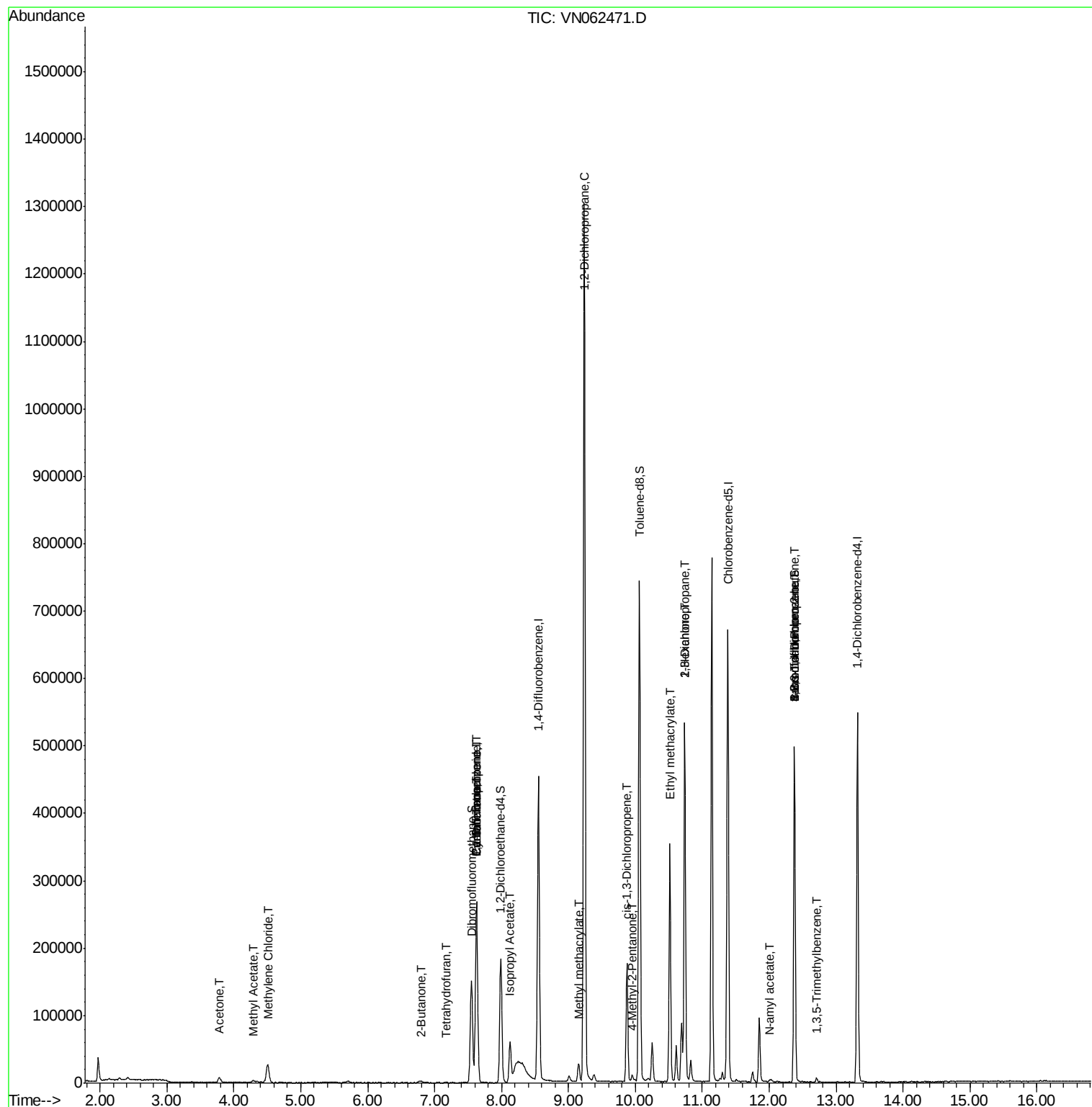
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	206510	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	382188	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	370368	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	139567	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	160832	50.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.26%	
35) Dibromofluoromethane	7.55	113	119051	50.39	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.78%	
50) Toluene-d8	10.06	98	495038	53.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.16%	
62) 4-Bromofluorobenzene	12.38	95	183381	53.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.62%	
Target Compounds						
					Qvalue	
16) Acetone	3.78	43	13764	10.206	ug/l	96
18) Methyl Acetate	4.29	43	5450	1.619	ug/l #	86
20) Methylene Chloride	4.51	84	19263	6.681	ug/l	91
25) 2-Butanone	6.81	43	2081	1.057	ug/l	98
29) Tetrahydrofuran	7.16	42	269	0.203	ug/l #	39
31) Cyclohexane	7.62	56	5136	1.065	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	18887	4.905	ug/l #	51
38) Carbon Tetrachloride	7.63	117	20893	6.035	ug/l #	15
43) Isopropyl Acetate	8.13	43	75761	10.652	ug/l #	92
45) 1,2-Dichloropropane	9.24	63	1501	0.456	ug/l #	44
48) Methyl methacrylate	9.15	41	4339	1.244	ug/l #	17
51) 4-Methyl-2-Pentanone	9.95	43	7368	1.734	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	29573	6.019	ug/l #	59
56) Ethyl methacrylate	10.52	69	1202	1.957	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4984	1.046	ug/l #	43
59) 2-Hexanone	10.74	43	83027	26.921	ug/l #	54
71) Bromoform	12.38	173	1102	0.566	ug/l #	1
74) N-amyl acetate	12.00	43	3363	0.640	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	94354	27.553	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3294	0.372	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.38	75	94354	73.747	ug/l #	10
95) Naphthalene	15.11	128	919	Below Cal	#	70

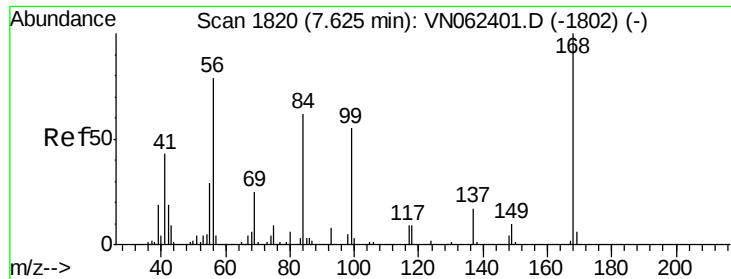
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1820

Delta R.T. 0.00 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

Instrument :

MSVOA_N

ClientSampleId :

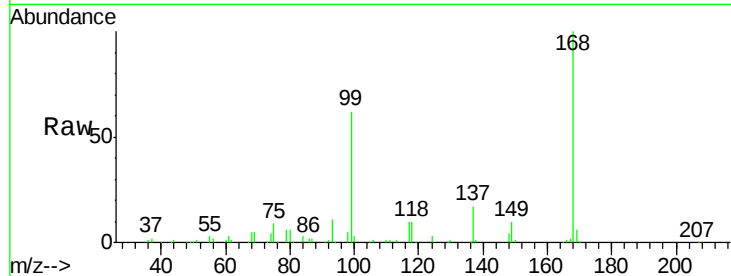
PB130035ZHE#02

Tot Ion:168 Resp: 206510

Ion Ratio Lower Upper

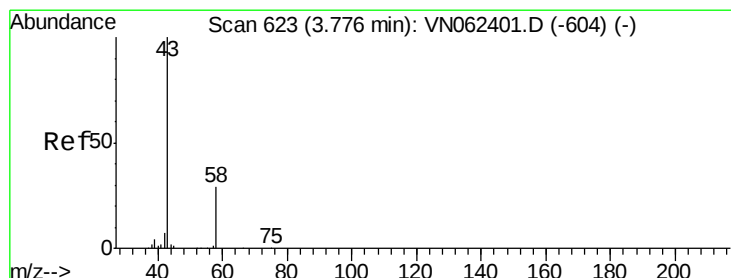
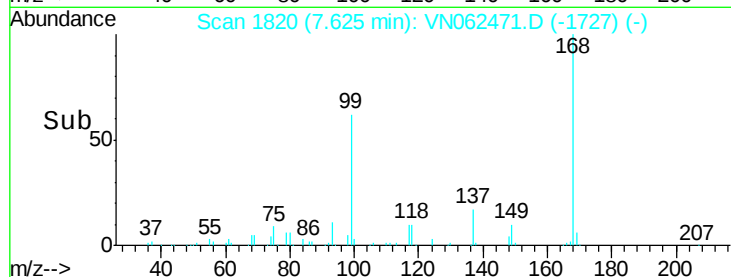
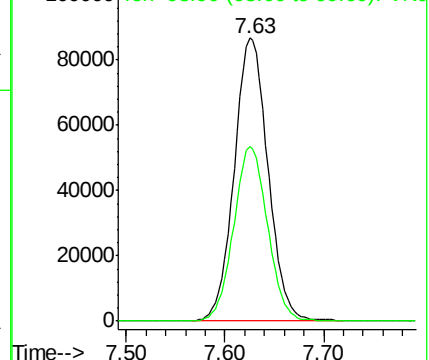
168 100

99 61.8 48.8 73.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 10.206 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN062471.D

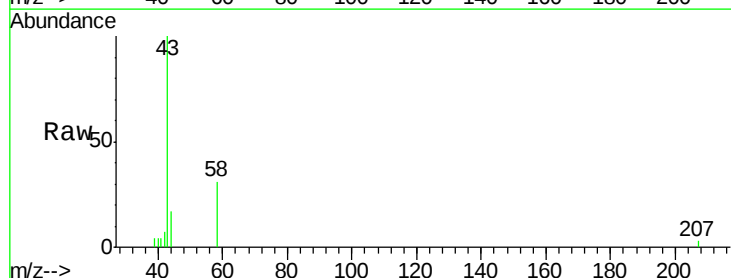
Acq: 9 Jul 2020 21:50

Tgt Ion: 43 Resp: 13764

Ion Ratio Lower Upper

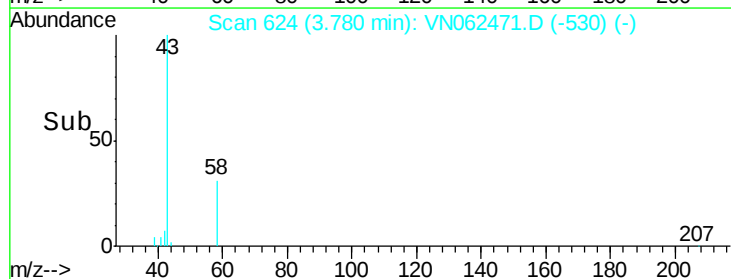
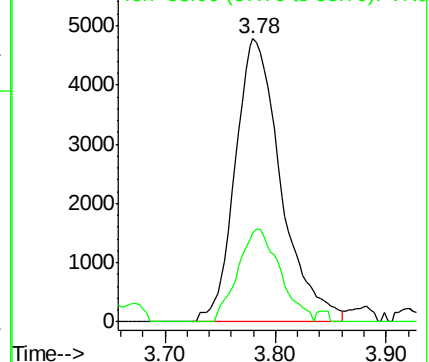
43 100

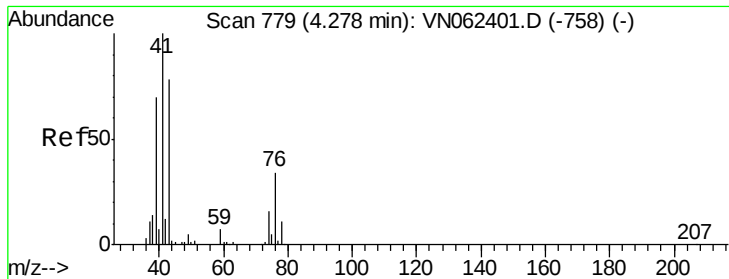
58 31.4 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

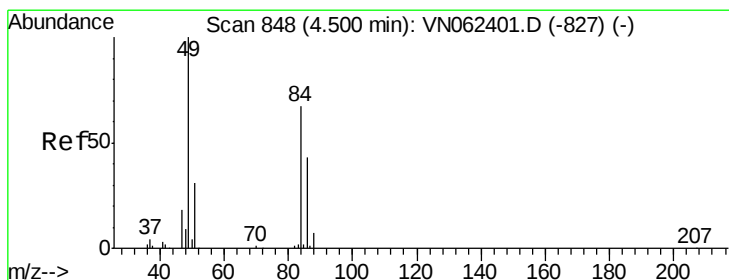
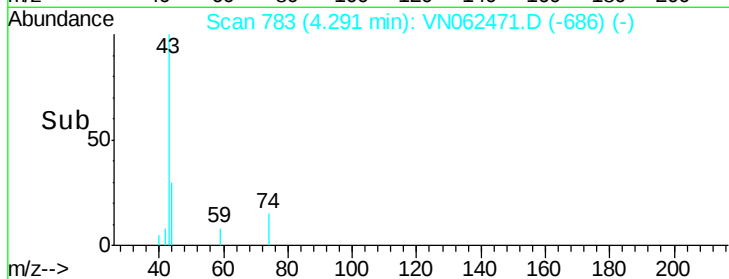
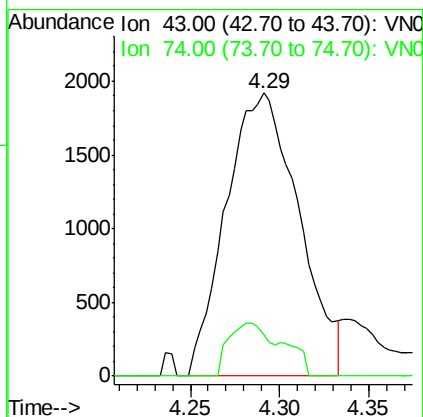
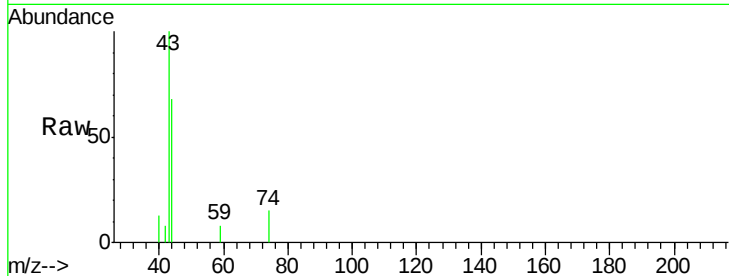




#18
Methvl Acetate
Concen: 1.619 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.01 min
Lab File: VN062471.D
Acq: 9 Jul 2020 21:50

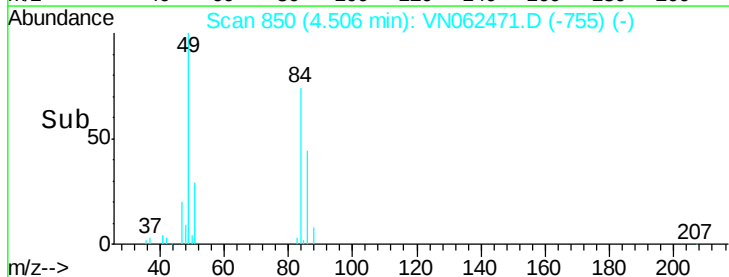
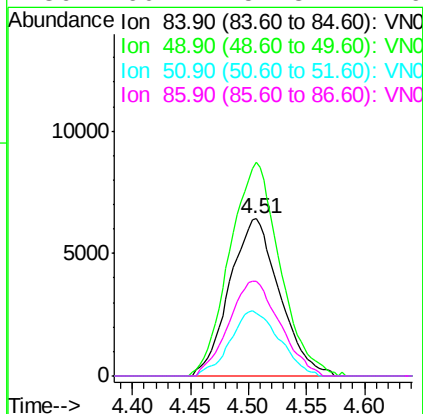
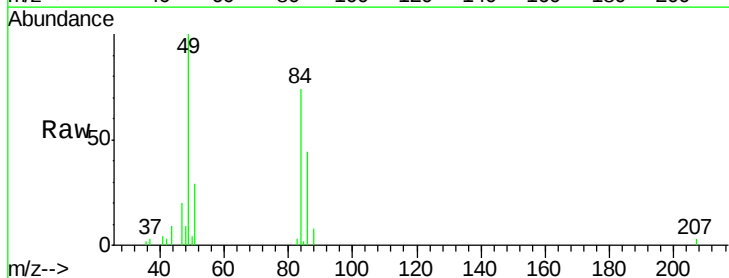
Instrument :
MSVOA_N
ClientSampleId :
PB130035ZHE#02

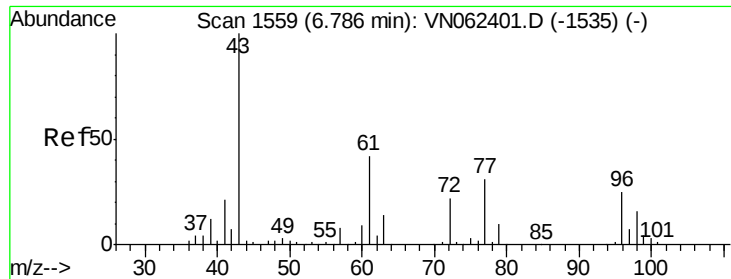
Tot Ion: 43 Resp: 5450
Ion Ratio Lower Upper
43 100
74 13.8 16.0 24.0#



#20
Methylene Chloride
Concen: 6.681 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN062471.D
Acq: 9 Jul 2020 21:50

Tgt Ion: 84 Resp: 19263
Ion Ratio Lower Upper
84 100
49 136.0 120.0 180.0
51 40.0 37.0 55.6
86 60.1 51.8 77.6





#25

2-Butanone

Concen: 1.057 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.02 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

Instrument :

MSVOA_N

ClientSampleId :

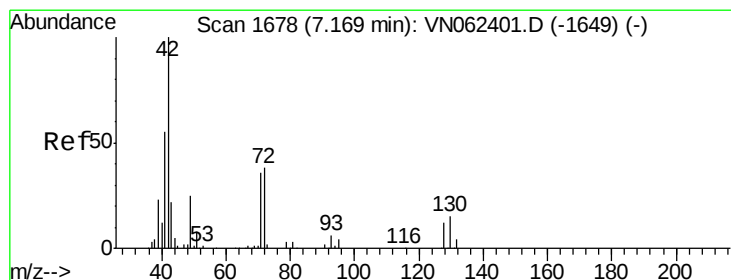
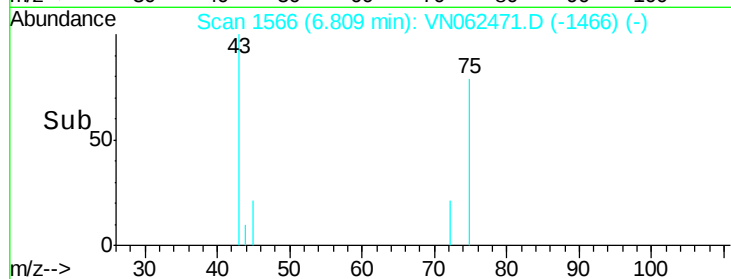
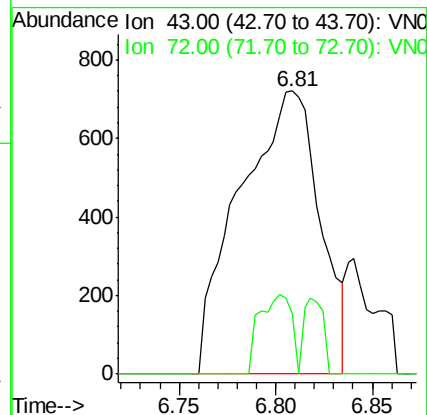
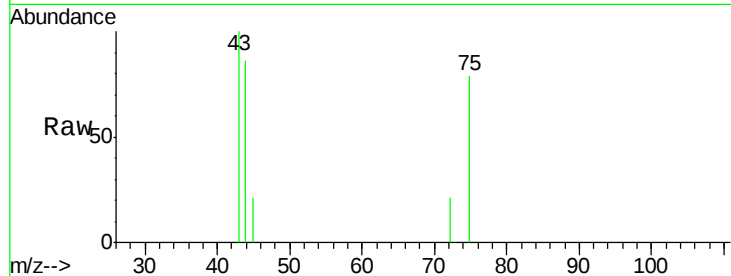
PB130035ZHE#02

Tot Ion: 43 Resp: 2081

Ion Ratio Lower Upper

43 100

72 21.5 17.9 26.9



#29

Tetrahydrofuran

Concen: 0.203 ug/l

RT: 7.16 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

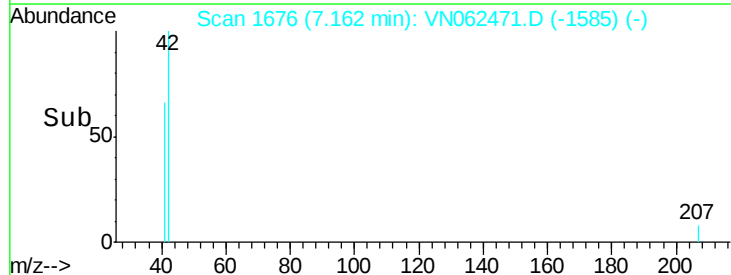
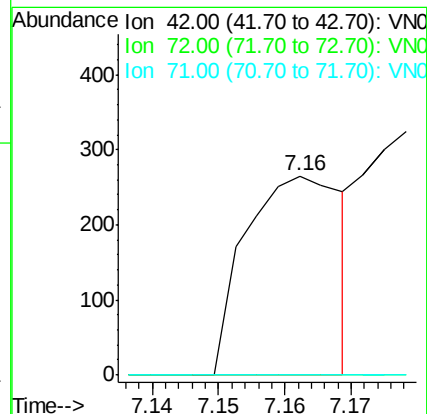
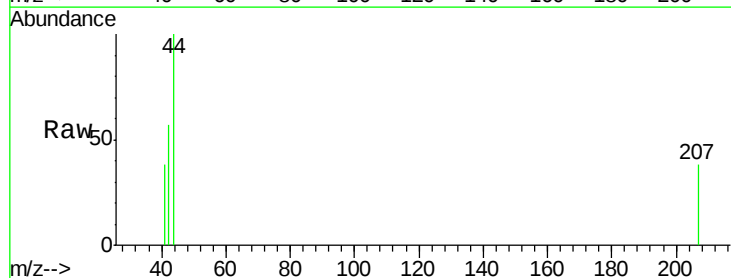
Tgt Ion: 42 Resp: 269

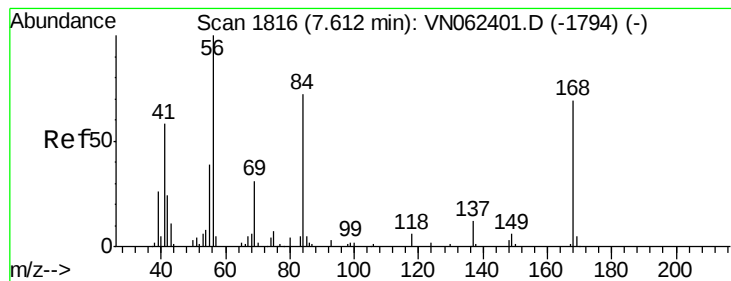
Ion Ratio Lower Upper

42 100

72 0.0 29.1 43.7#

71 0.0 28.1 42.1#





#31

Cyclohexane

Concen: 1.065 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#02

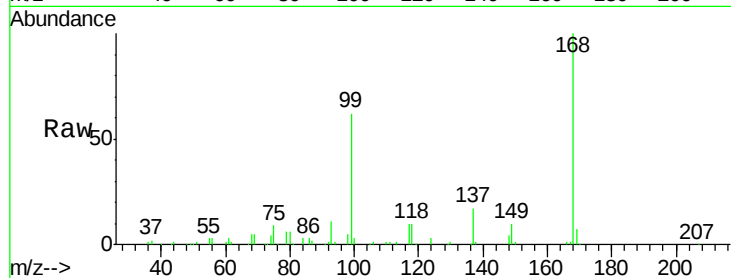
Tot Ion: 56 Resp: 5136

Ion Ratio Lower Upper

56 100

69 186.7 24.5 36.7#

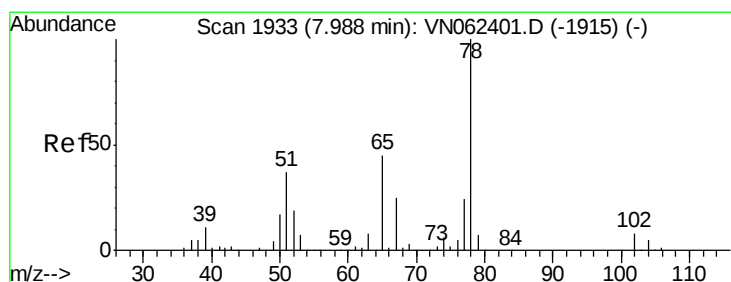
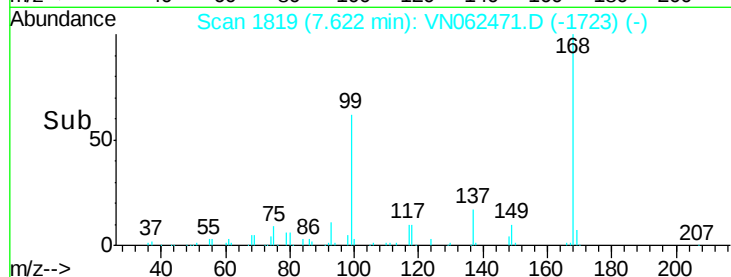
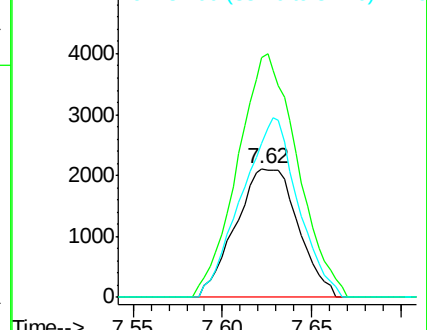
84 119.4 57.4 86.2#



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: 50.634 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN062471.D

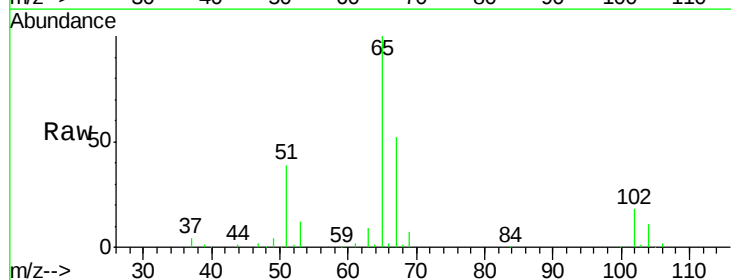
Acq: 9 Jul 2020 21:50

Tgt Ion: 65 Resp: 160832

Ion Ratio Lower Upper

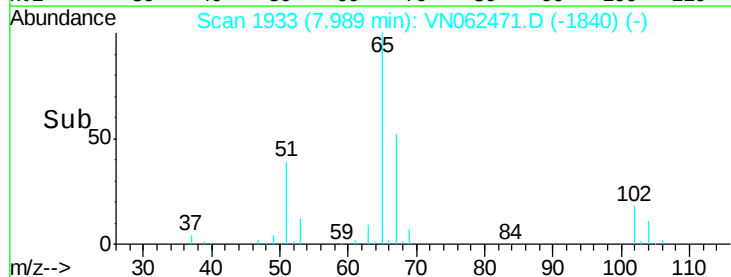
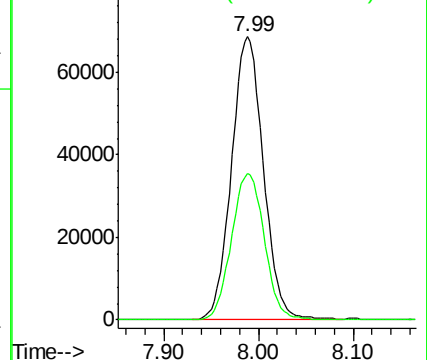
65 100

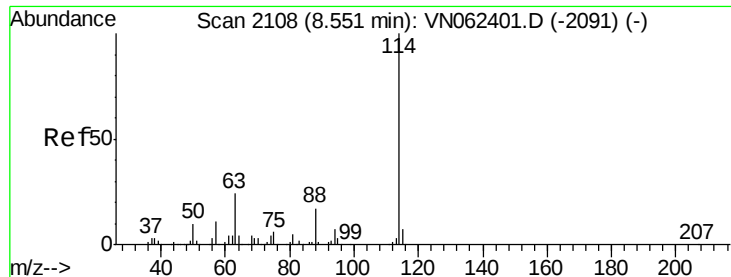
67 53.4 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

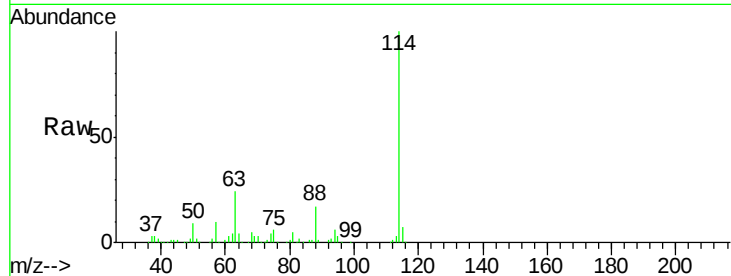




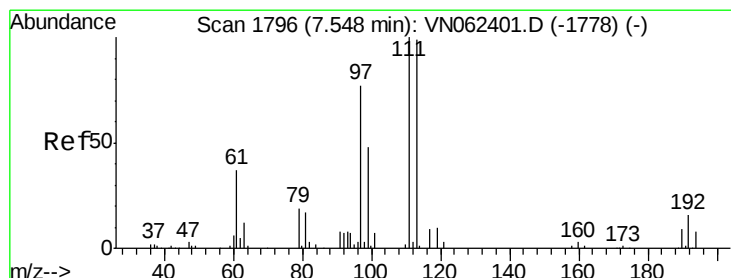
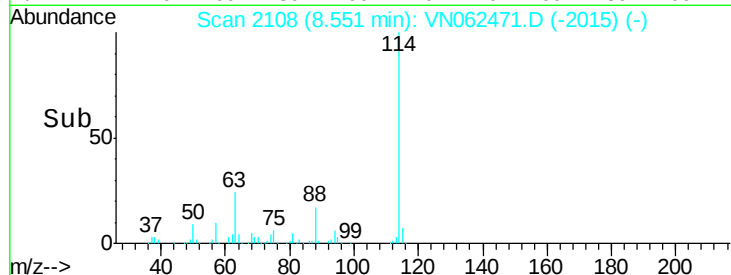
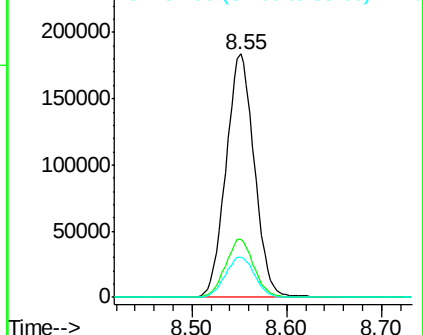
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN062471.D
 Acq: 9 Jul 2020 21:50

Instrument :
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 PB130035ZHE#02

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	48.4
88	16.6	0.0	33.8

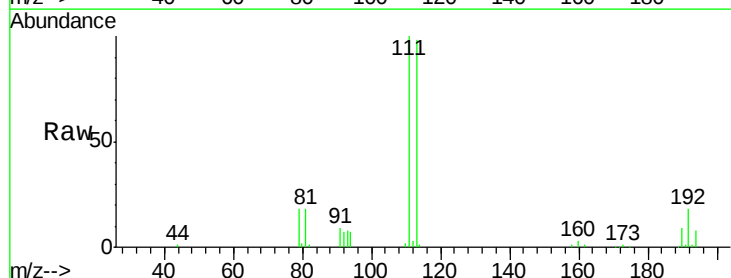


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

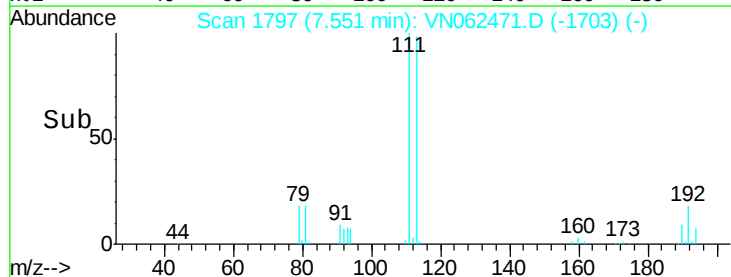
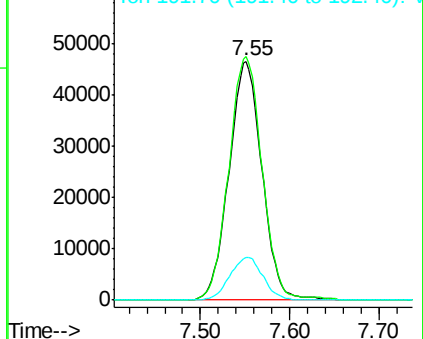


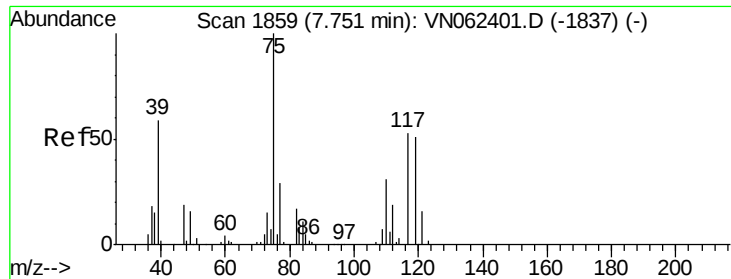
#35
 Dibromofluoromethane
 Concen: 50.393 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062471.D
 Acq: 9 Jul 2020 21:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	83.1	124.7
192	18.0	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: 4.905 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#02

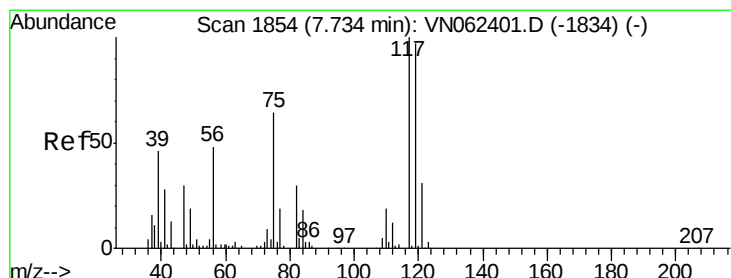
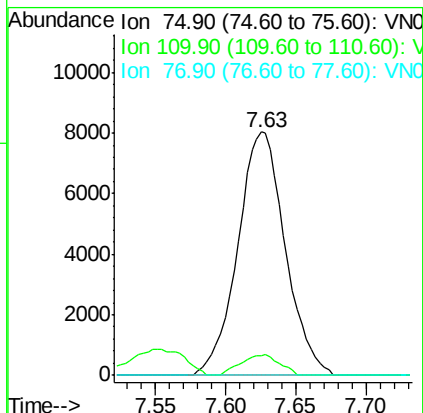
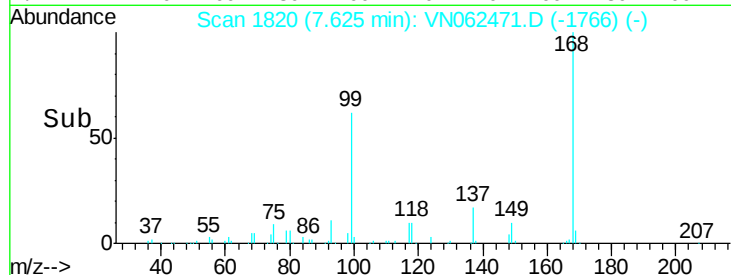
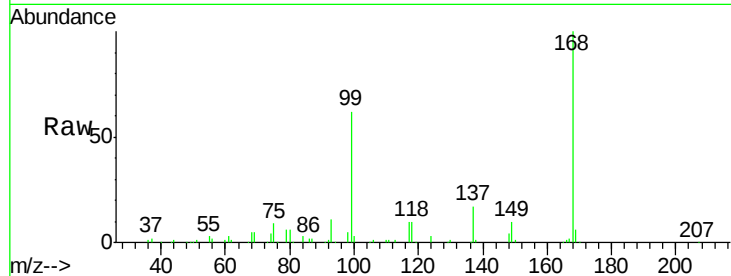
Tot Ion: 75 Resp: 18887

Ion Ratio Lower Upper

75 100

110 7.0 15.4 46.2#

77 0.0 24.1 36.1#



#38

Carbon Tetrachloride

Concen: 6.035 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

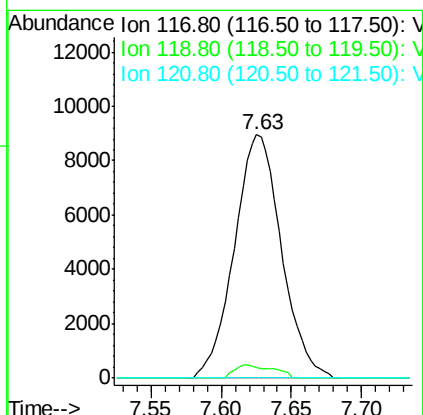
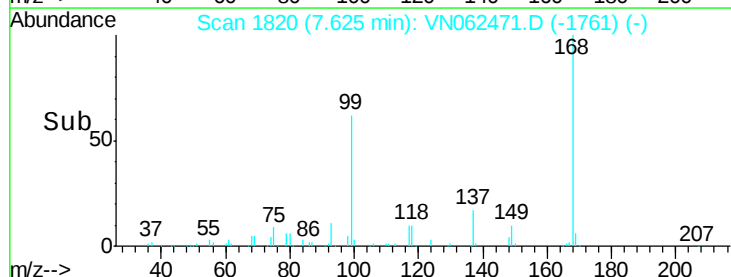
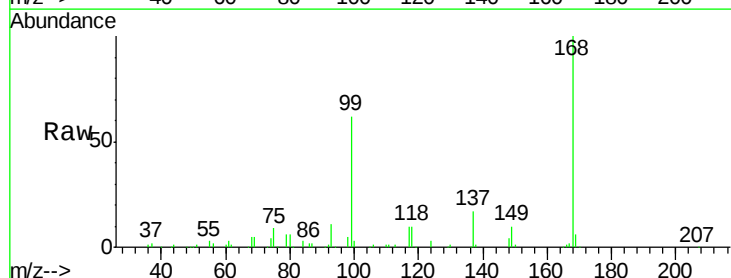
Tgt Ion: 117 Resp: 20893

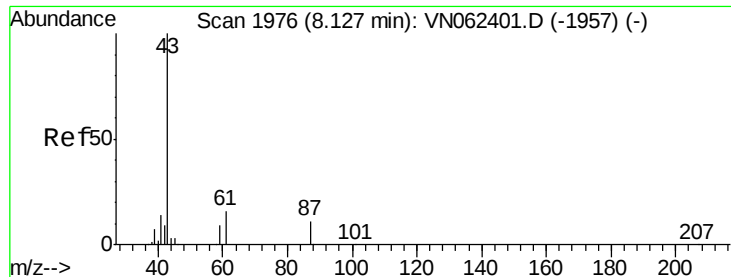
Ion Ratio Lower Upper

117 100

119 4.3 77.2 115.8#

121 0.0 24.8 37.2#





#43

Isopropyl Acetate

Concen: 10.652 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

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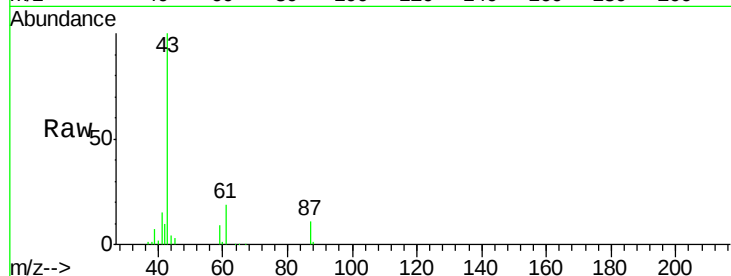
Tot Ion: 43 Resp: 75761

Ion Ratio Lower Upper

43 100

61 18.7 19.3 28.9#

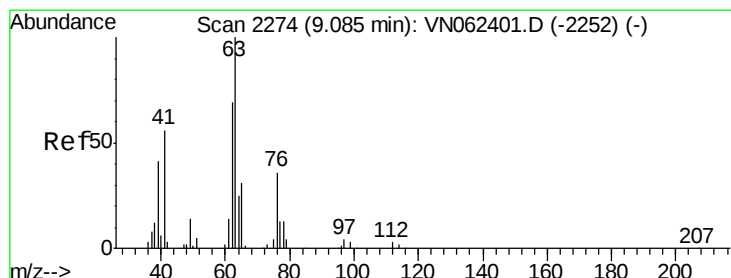
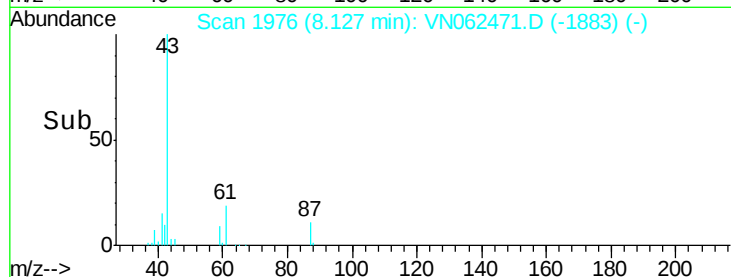
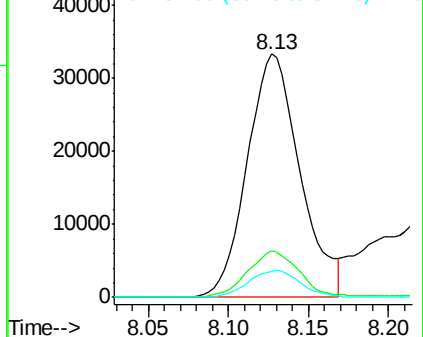
87 10.8 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VN062471.D (-1957) (-)

Ion 61.00 (60.70 to 61.70): VN062471.D (-1957) (-)

Ion 87.00 (86.70 to 87.70): VN062471.D (-1957) (-)



#45

1,2-Dichloropropane

Concen: 0.456 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062471.D

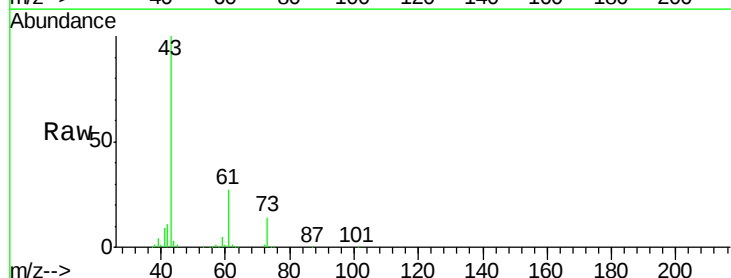
Acq: 9 Jul 2020 21:50

Tgt Ion: 63 Resp: 1501

Ion Ratio Lower Upper

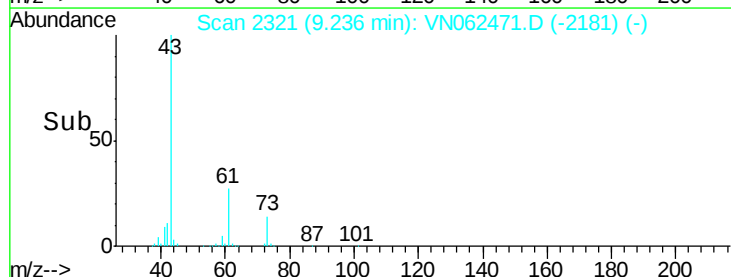
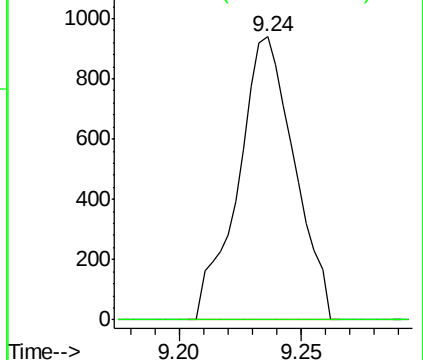
63 100

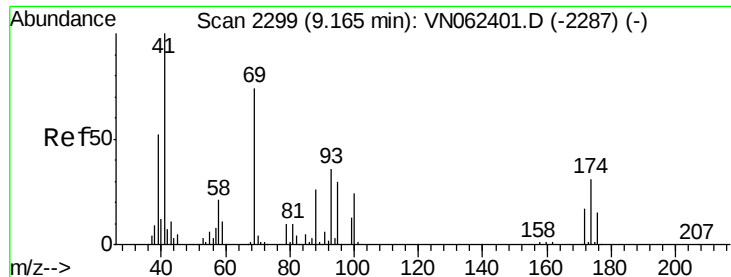
65 0.0 24.6 36.8#



Abundance Ion 62.90 (62.60 to 63.60): VN062471.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062471.D (-2181) (-)

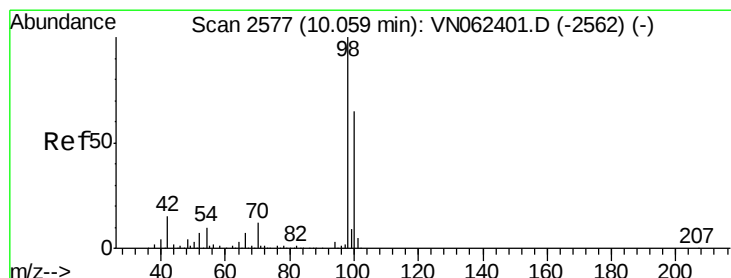
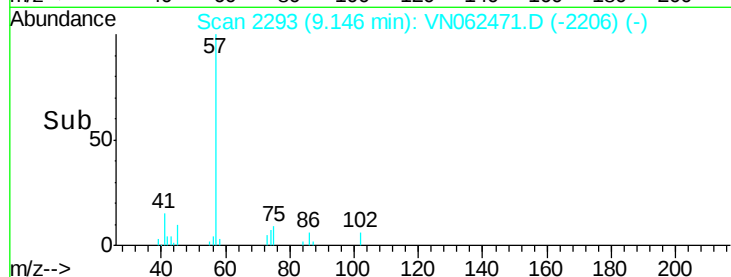
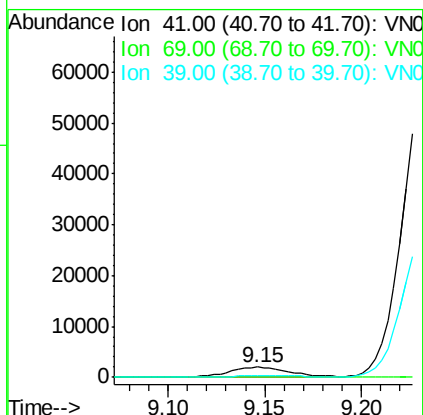
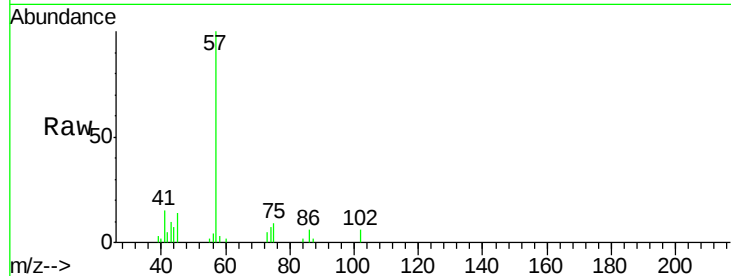




#48
Methvl methacrylate
Concen: 1.244 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062471.D
Acq: 9 Jul 2020 21:50

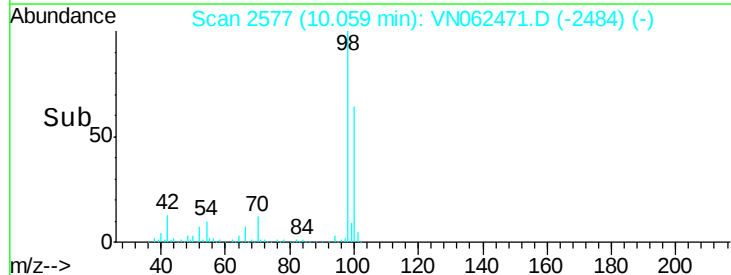
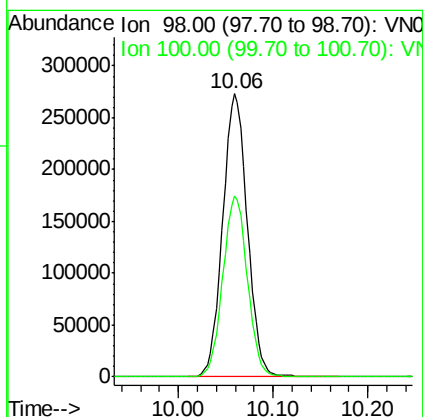
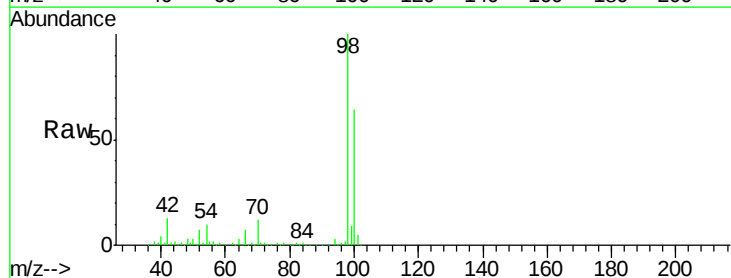
Instrument :
MSVOA_N
ClientSampleId :
PB130035ZHE#02

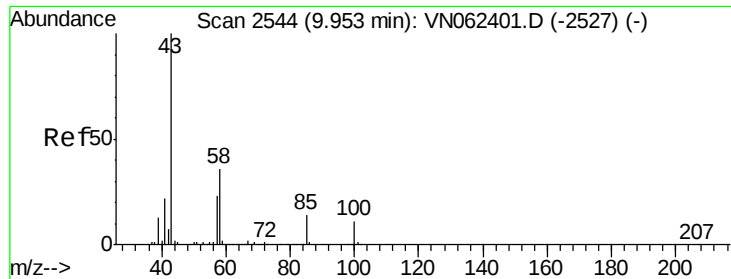
Tot Ion: 41 Resp: 4339
Ion Ratio Lower Upper
41 100
69 0.0 60.8 91.2#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 53.080 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN062471.D
Acq: 9 Jul 2020 21:50

Tgt Ion: 98 Resp: 495038
Ion Ratio Lower Upper
98 100
100 63.7 51.5 77.3





#51

4-Methyl-2-Pentanone

Concen: 1.734 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

Instrument :

MSVOA_N

ClientSampleId :

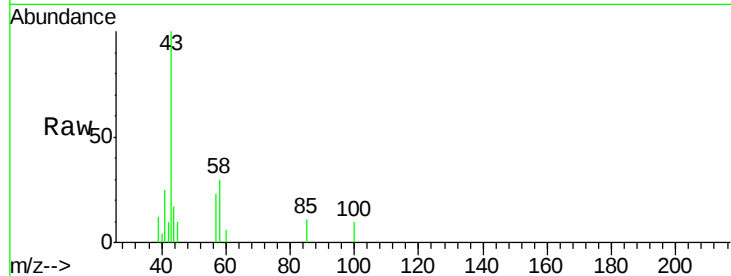
PB130035ZHE#02

Tot Ion: 43 Resp: 7368

Ion Ratio Lower Upper

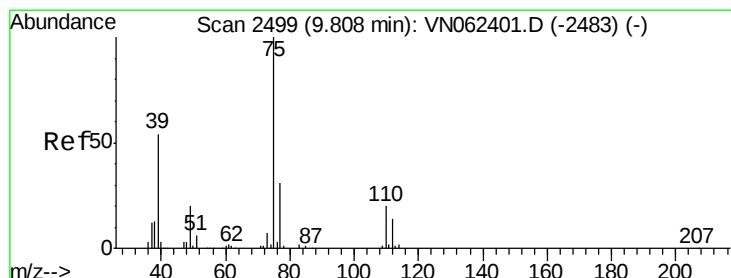
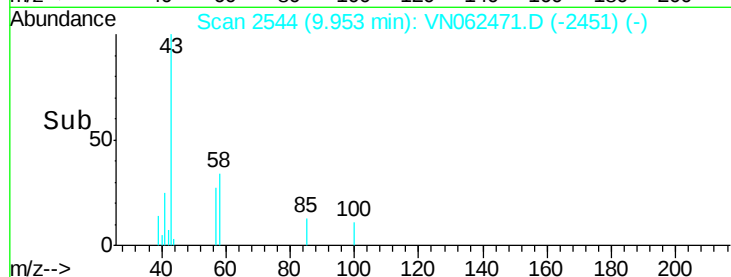
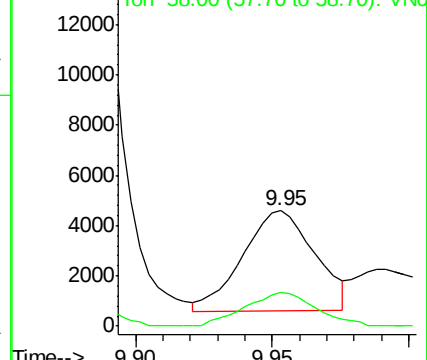
43 100

58 33.1 29.0 43.6



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: 6.019 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

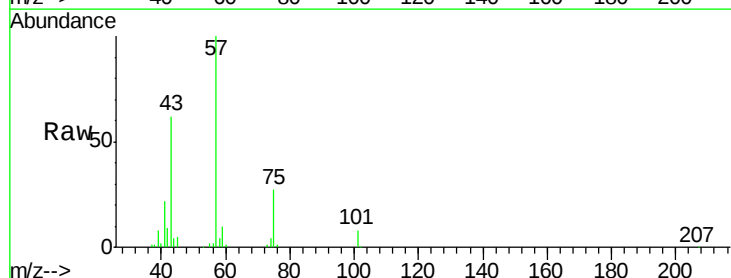
Tgt Ion: 75 Resp: 29573

Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#

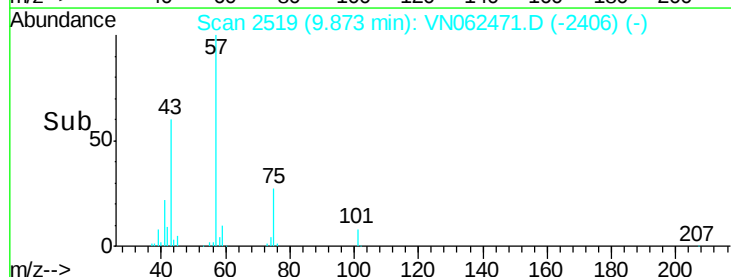
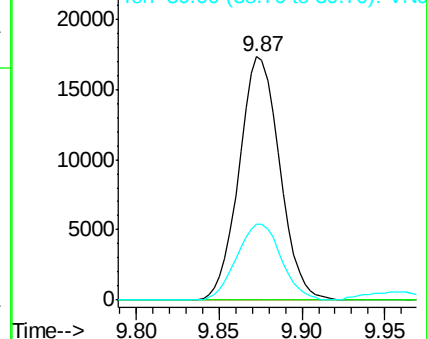
39 31.0 43.4 65.0#

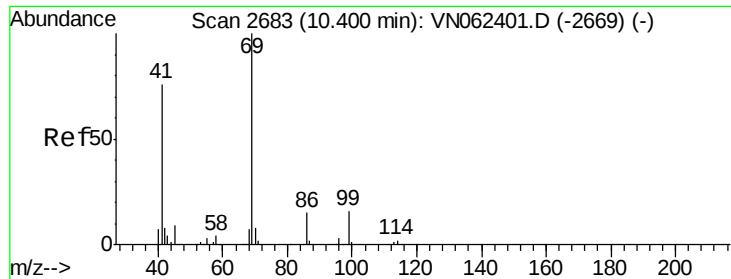


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 1.957 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#02

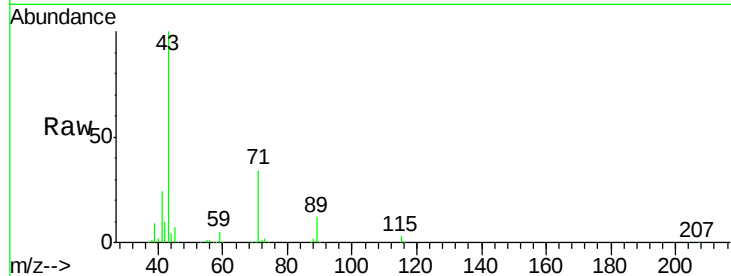
Tot Ion: 69 Resp: 1202

Ion Ratio Lower Upper

69 100

41 5369.6 59.7 89.5#

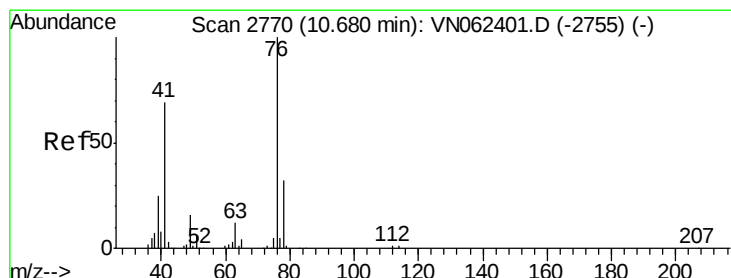
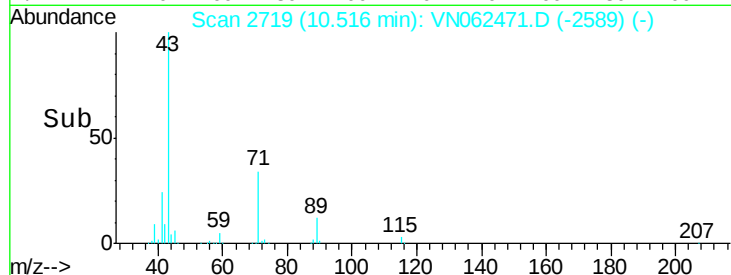
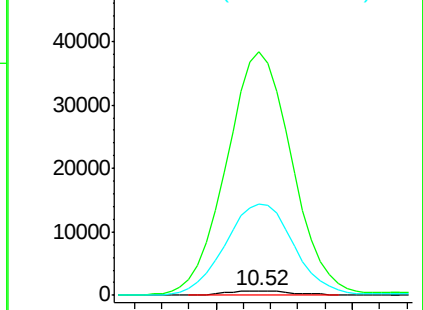
39 2127.0 30.6 45.8#



Abundance Ion 69.00 (68.70 to 69.70): VN062471.D (-2589) (-)

Ion 41.00 (40.70 to 41.70): VN062471.D (-2589) (-)

Ion 39.00 (38.70 to 39.70): VN062471.D (-2589) (-)



#57

1,3-Dichloropropane

Concen: 1.046 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062471.D

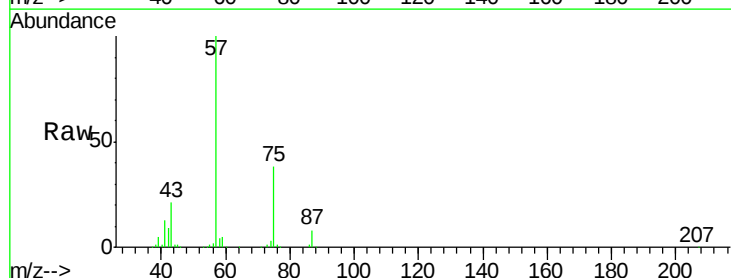
Acq: 9 Jul 2020 21:50

Tgt Ion: 76 Resp: 4984

Ion Ratio Lower Upper

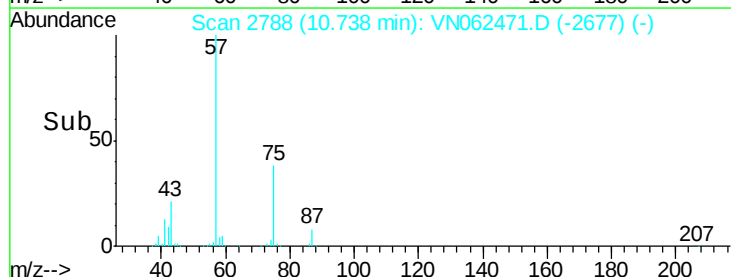
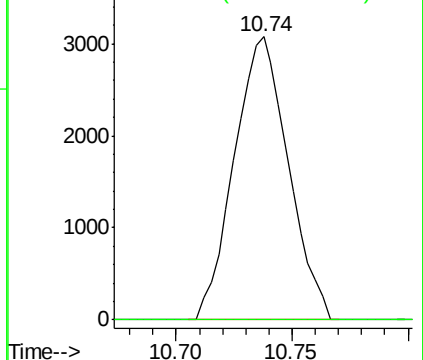
76 100

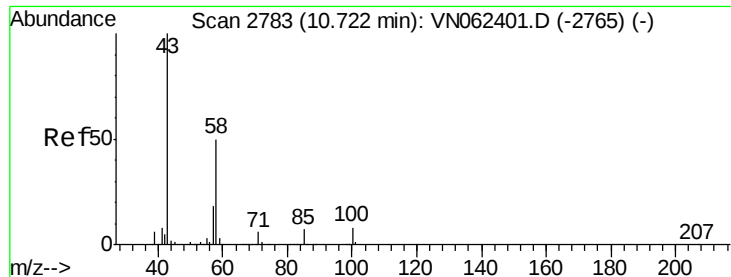
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN062471.D (-2677) (-)

Ion 77.90 (77.60 to 78.60): VN062471.D (-2677) (-)

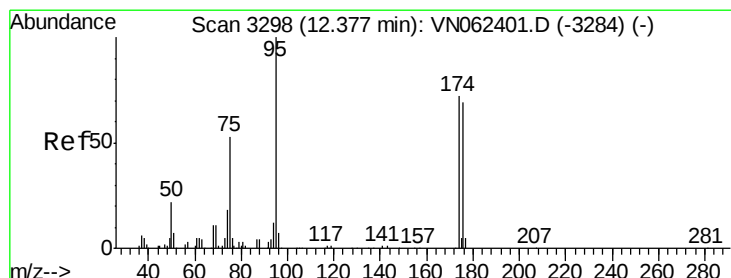
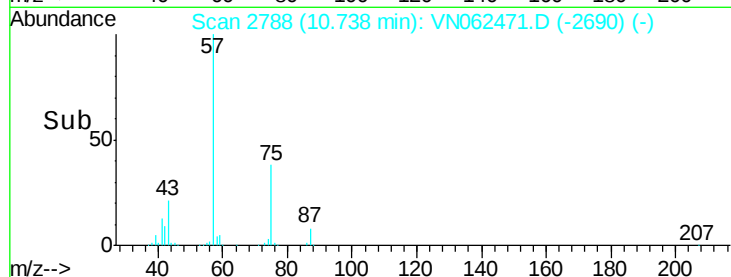
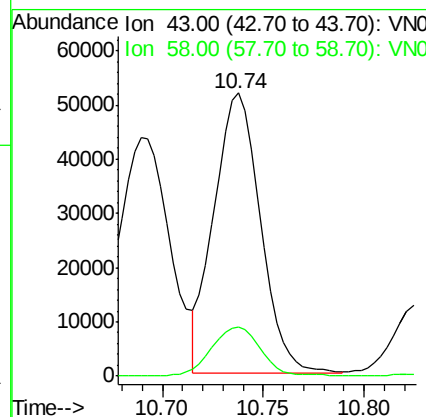
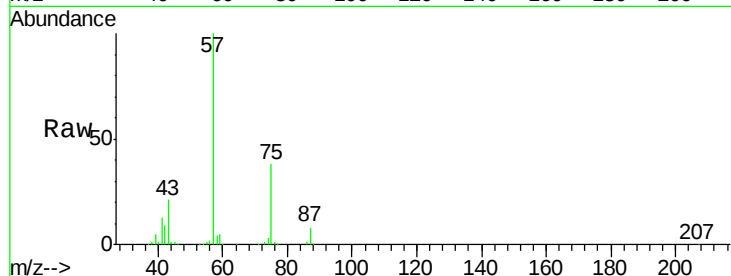




#59
2-Hexanone
Concen: 26.921 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062471.D
Acq: 9 Jul 2020 21:50

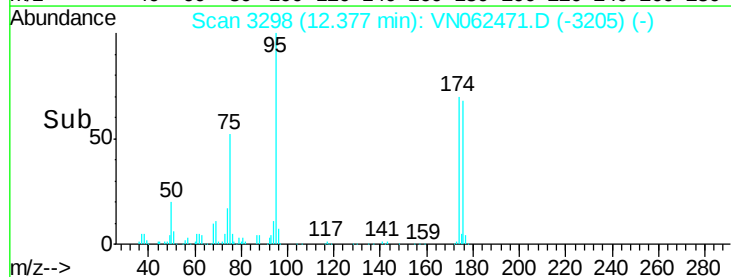
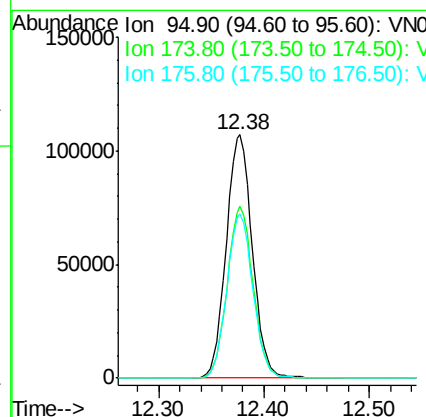
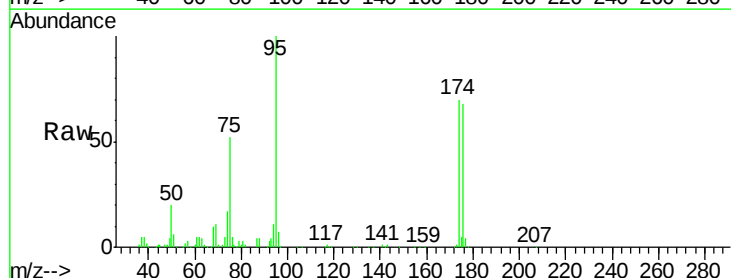
Instrument :
MSVOA_N
ClientSampleId :
PB130035ZHE#02

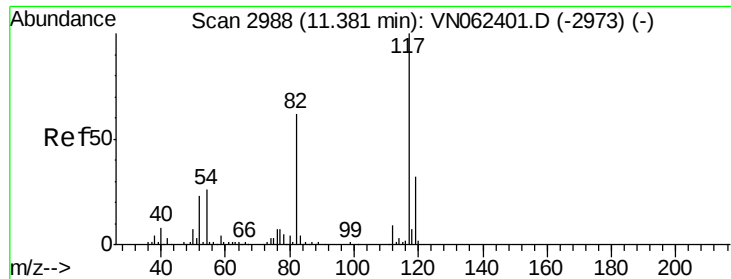
Tot Ion: 43 Resp: 83027
Ion Ratio Lower Upper
43 100
58 18.6 25.1 75.2#



#62
4-Bromofluorobenzene
Concen: 53.807 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN062471.D
Acq: 9 Jul 2020 21:50

Tgt Ion: 95 Resp: 183381
Ion Ratio Lower Upper
95 100
174 69.8 0.0 141.6
176 67.3 0.0 137.2

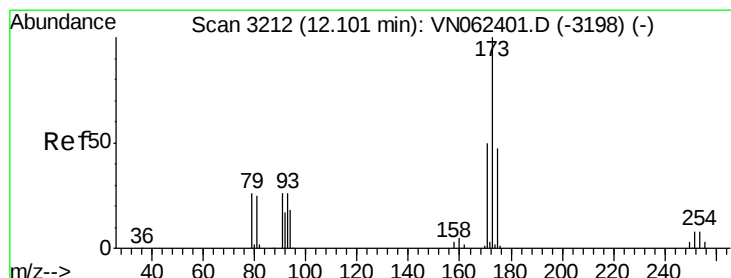
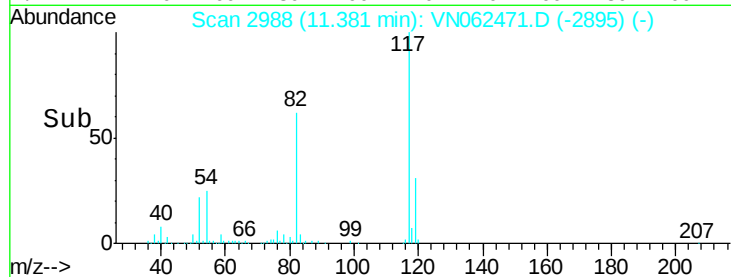
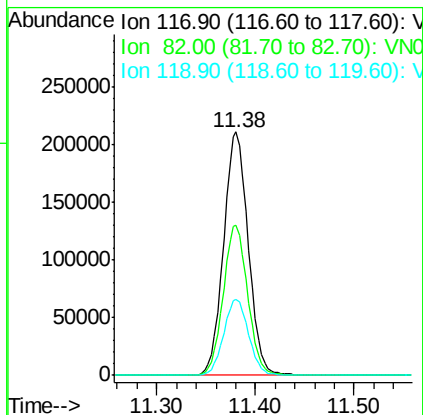
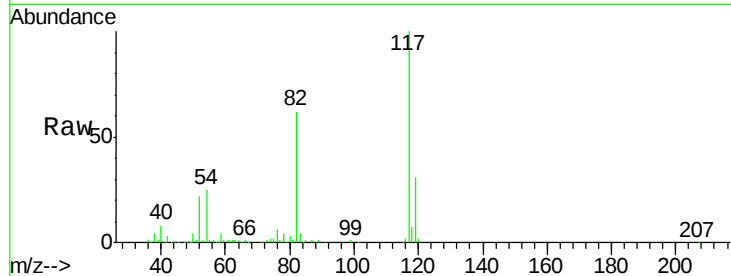




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN062471.D
Acq: 9 Jul 2020 21:50

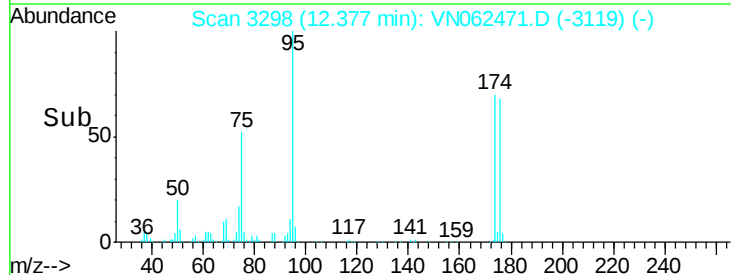
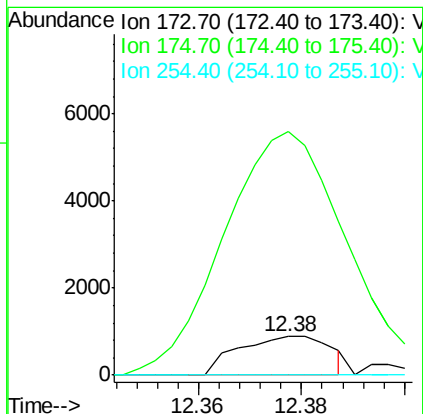
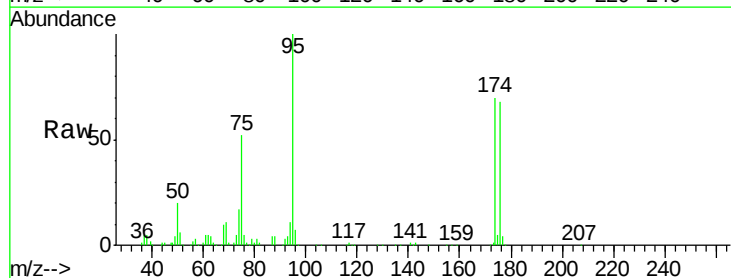
Instrument :
MSVOA_N
ClientSampleId :
PB130035ZHE#02

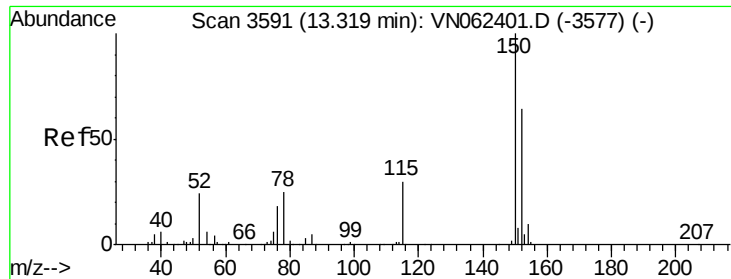
Tot Ion:117 Resp: 370368
Ion Ratio Lower Upper
117 100
82 61.9 49.6 74.4
119 31.3 25.4 38.0



#71
Bromoform
Concen: 0.566 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062471.D
Acq: 9 Jul 2020 21:50

Tgt Ion:173 Resp: 1102
Ion Ratio Lower Upper
173 100
175 712.8 23.7 71.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

Instrument :

MSVOA_N

ClientSampleId :

PB130035ZHE#02

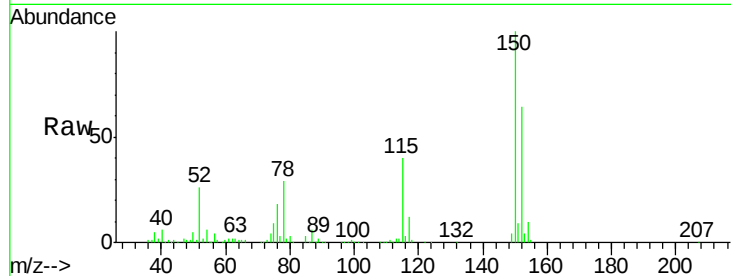
Tot Ion:152 Resp: 139567

Ion Ratio Lower Upper

152 100

115 62.8 31.4 94.2

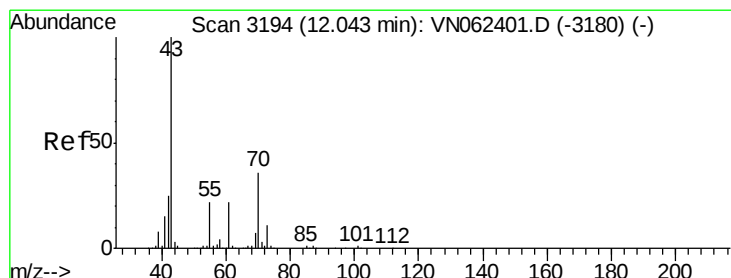
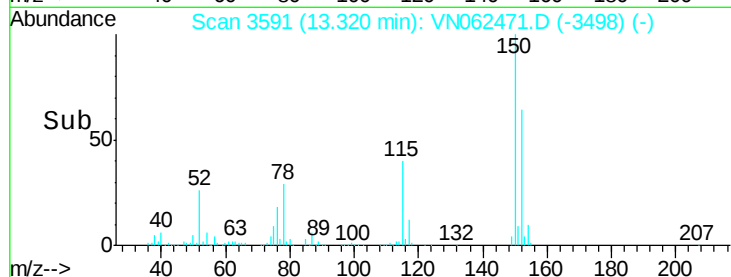
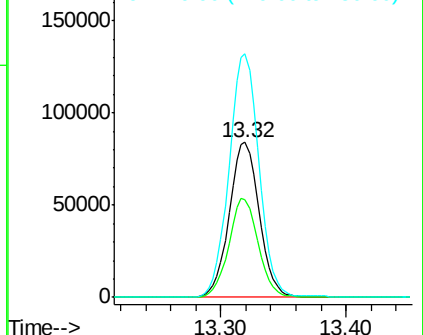
150 157.2 0.0 347.4



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-ethyl acetate

Concen: 0.640 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

Tgt Ion: 43 Resp: 3363

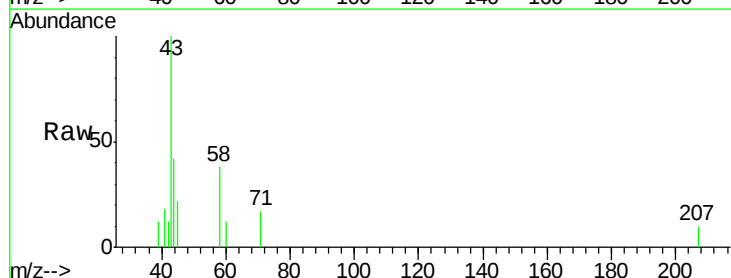
Ion Ratio Lower Upper

43 100

70 0.0 30.0 45.0#

55 0.0 18.2 27.4#

61 0.0 17.7 26.5#

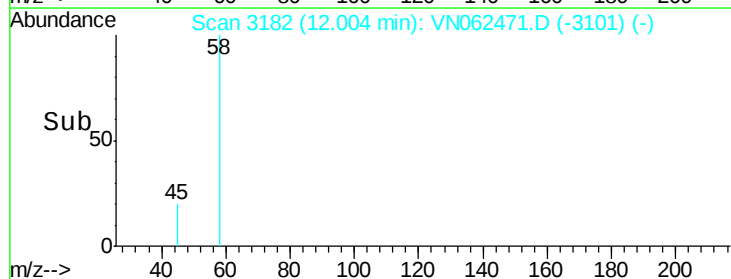
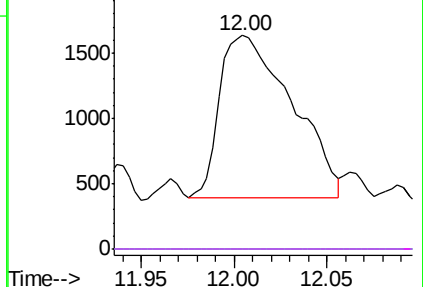


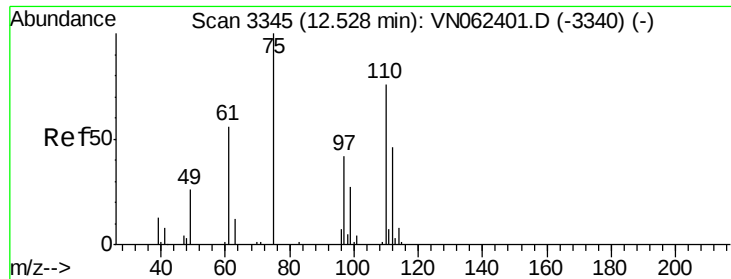
Abundance Ion 43.00 (42.70 to 43.70): V

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: 27.553 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062471.D

Acq: 9 Jul 2020 21:50

Instrument :

MSVOA_N

ClientSampleId :

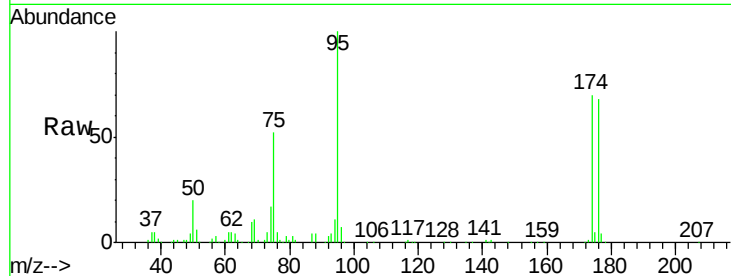
PB130035ZHE#02

Tot Ion: 75 Resp: 94354

Ion Ratio Lower Upper

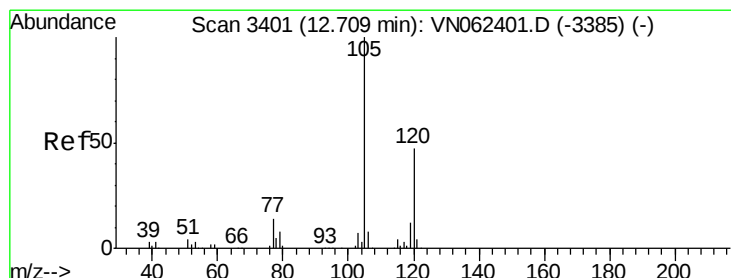
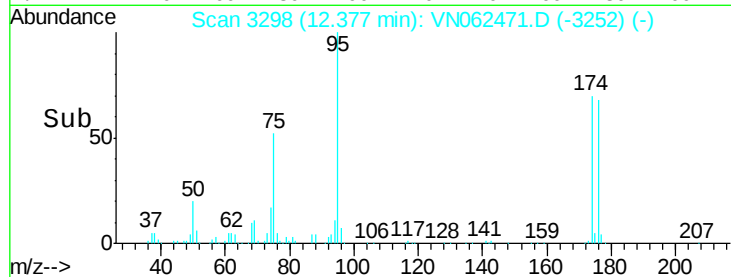
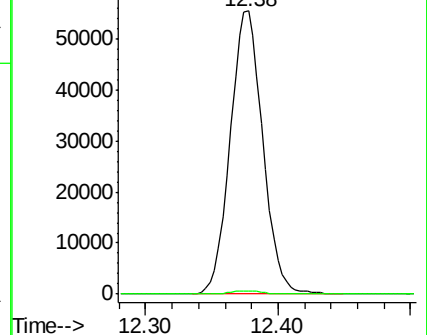
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN062471.D (-3252) (-)

Ion 77.00 (76.70 to 77.70): VN062471.D (-3252) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.372 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN062471.D

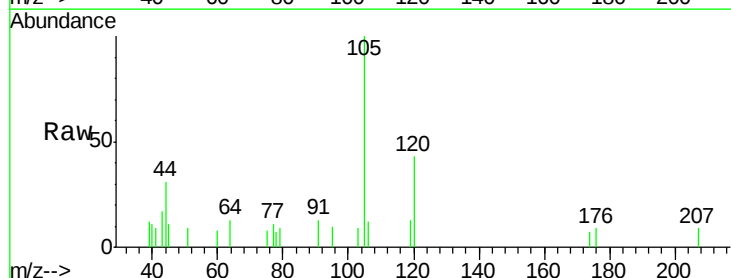
Acq: 9 Jul 2020 21:50

Tgt Ion: 105 Resp: 3294

Ion Ratio Lower Upper

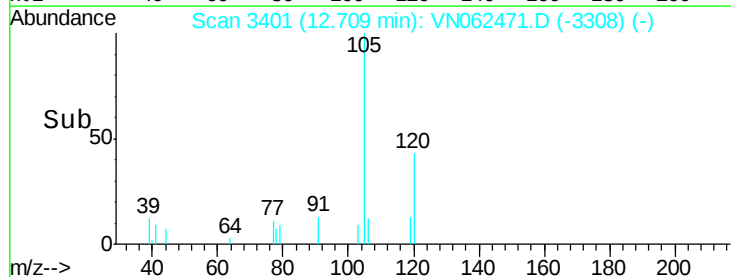
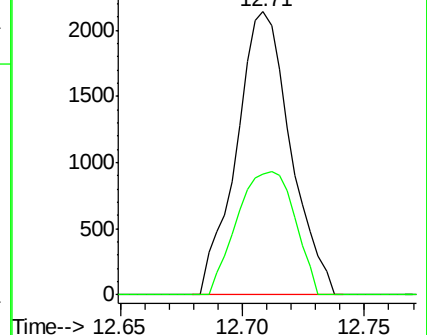
105 100

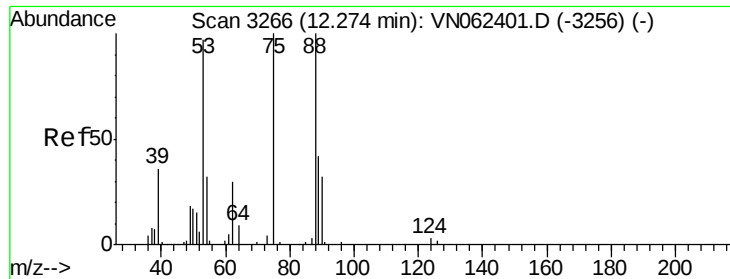
120 46.7 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): VN062471.D (-3308) (-)

Ion 120.00 (119.70 to 120.70): VN062471.D (-3308) (-)

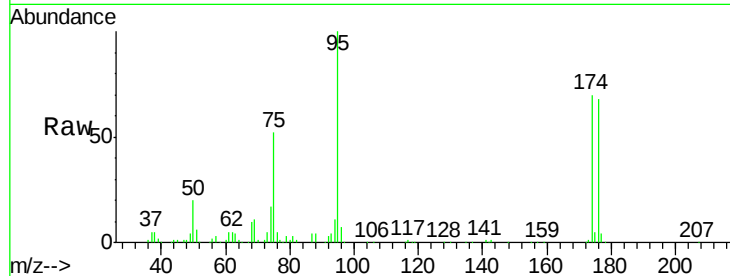




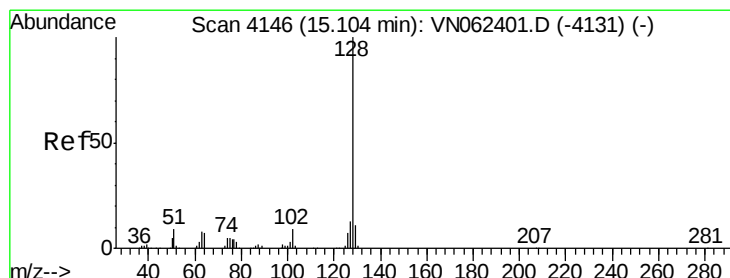
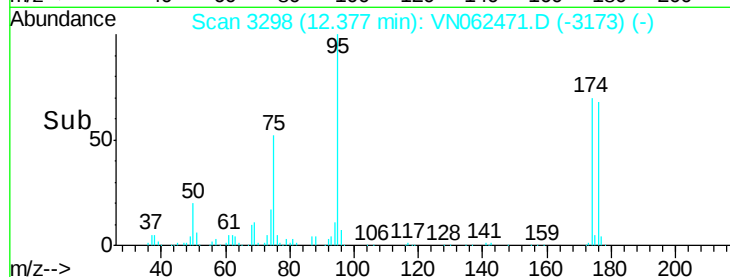
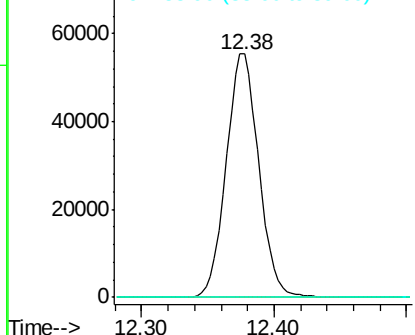
#81
trans-1,4-Dichloro-2-butene
Concen: 73.747 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN062471.D
Acq: 9 Jul 2020 21:50

Instrument :
MSVOA_N
ClientSampleId :
PB130035ZHE#02

Tot Ion: 75 Resp: 94354
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 34.6 52.0#

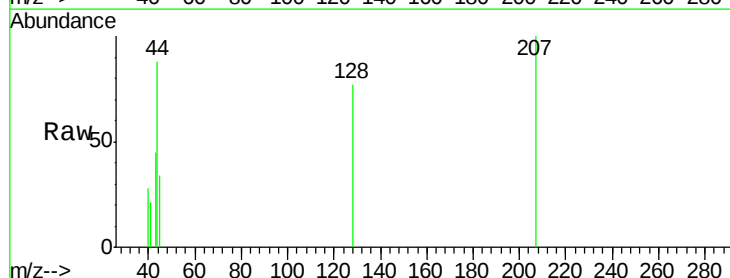


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: Below Cal
RT: 15.11 min Scan# 4148
Delta R.T. 0.01 min
Lab File: VN062471.D
Acq: 9 Jul 2020 21:50

Tgt Ion: 128 Resp: 919
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

