

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064587.D
 Acq On : 12 Nov 2020 17:38
 Operator : JC/MD
 Sample : L4701-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-5-1-BOTTOM

Quant Time: Nov 13 02:52:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	235066	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	513392	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	544514	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	196851	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	239199	58.42	ug/l	0.00
Spiked Amount			Recovery	=	116.84%	
35) Dibromofluoromethane	7.55	113	179629	51.39	ug/l	0.00
Spiked Amount			Recovery	=	102.78%	
50) Toluene-d8	10.06	98	662936	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
62) 4-Bromofluorobenzene	12.38	95	247013	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	552	1.222	ug/l #	71
13) Acrolein	3.56	56	111	0.396	ug/l	88
16) Acetone	3.79	43	15906	10.198	ug/l	96
18) Methyl Acetate	4.29	43	5243	1.710	ug/l	96
20) Methylene Chloride	4.49	84	3420	1.105	ug/l	94
25) 2-Butanone	6.81	43	7271	3.659	ug/l #	90
29) Tetrahydrofuran	7.19	42	1241	1.018	ug/l #	63
31) Cyclohexane	7.62	56	6935	1.393	ug/l #	39
36) 1,1-Dichloropropene	7.63	75	22941	4.230	ug/l #	52
37) Ethyl Acetate	6.88	43	296	0.815	ug/l #	71
38) Carbon Tetrachloride	7.63	117	26495	4.571	ug/l #	17
41) Methacrylonitrile	7.18	41	494	0.205	ug/l #	41
43) Isopropyl Acetate	8.13	43	94961	10.804	ug/l	100
45) 1,2-Dichloropropane	9.23	63	1950	0.459	ug/l #	45
48) Methyl methacrylate	9.15	41	5462	1.232	ug/l #	16
51) 4-Methyl-2-Pentanone	9.96	43	8126	1.585	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	31131	4.563	ug/l #	70
56) Ethyl methacrylate	10.51	69	3781	2.425	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2455	0.371	ug/l #	42
59) 2-Hexanone	10.74	43	43041	14.160	ug/l #	60
71) Bromoform	12.36	173	510	1.424	ug/l #	29
74) N-amyl acetate	12.07	43	650	1.298	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	139420	29.231	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	139420	81.617	ug/l #	8
95) Naphthalene	15.11	128	88	3.630	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

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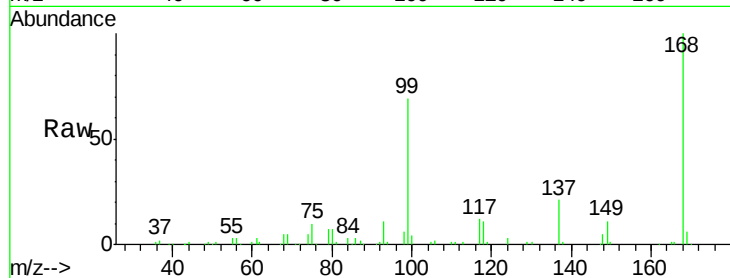
TRANSFORMER-5-1-BOTTOM

Tot Ion:168 Resp: 235066

Ion Ratio Lower Upper

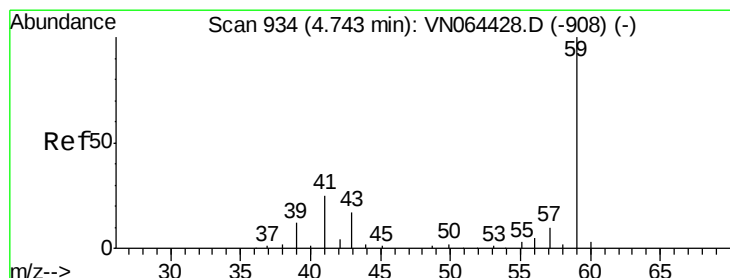
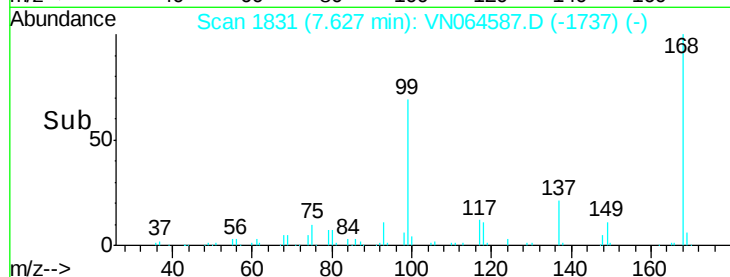
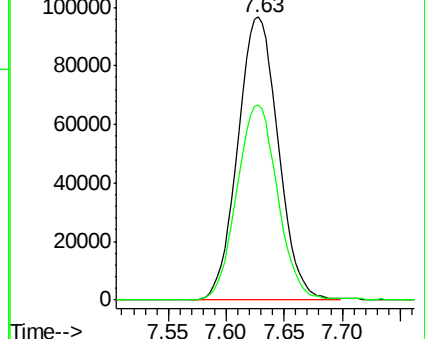
168 100

99 69.1 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.222 ug/l

RT: 4.75 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN064587.D

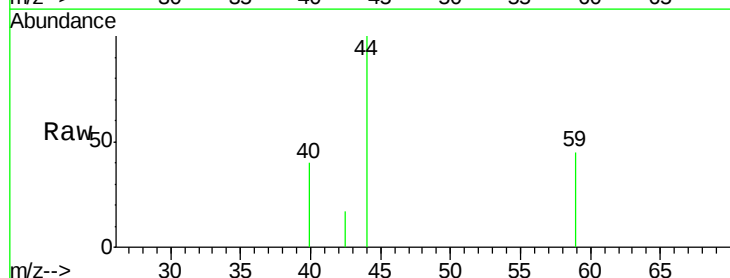
Acq: 12 Nov 2020 17:38

Tgt Ion: 59 Resp: 552

Ion Ratio Lower Upper

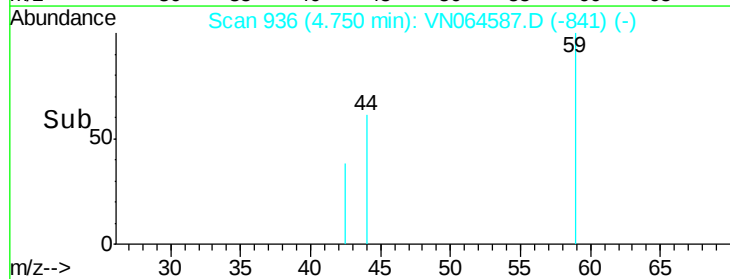
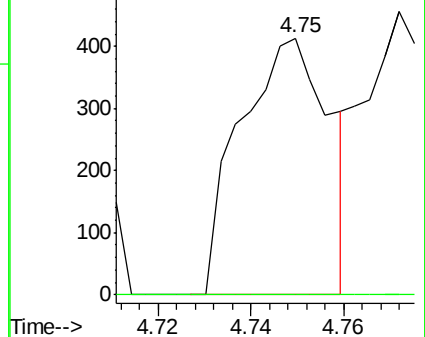
59 100

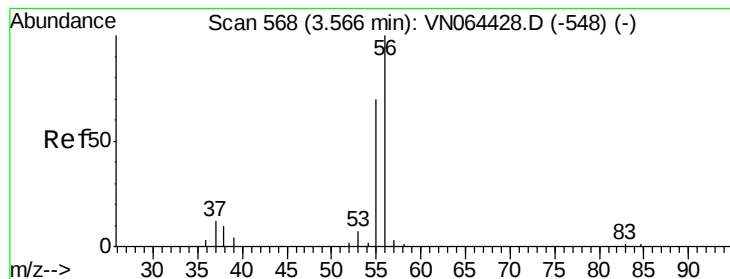
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 0.396 ug/l

RT: 3.56 min Scan# 567

Delta R.T. -0.00 min

Lab File: VN064587.D

Acq: 12 Nov 2020 17:38

Instrument :

MSVOA_N

ClientSampleId :

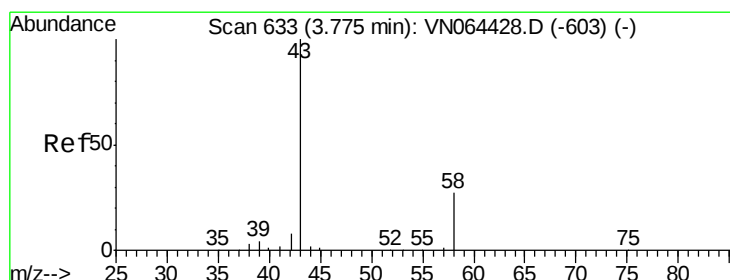
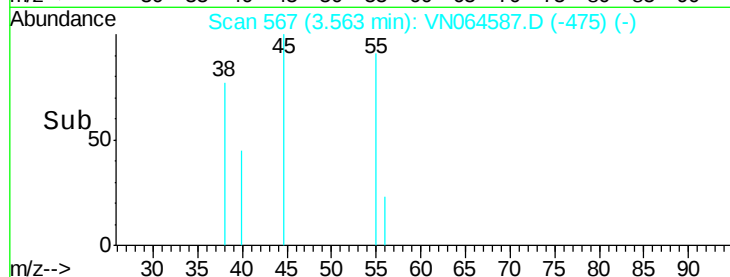
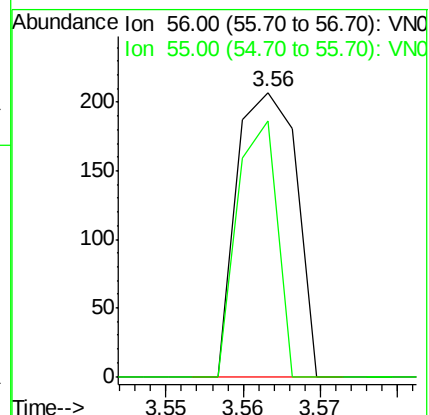
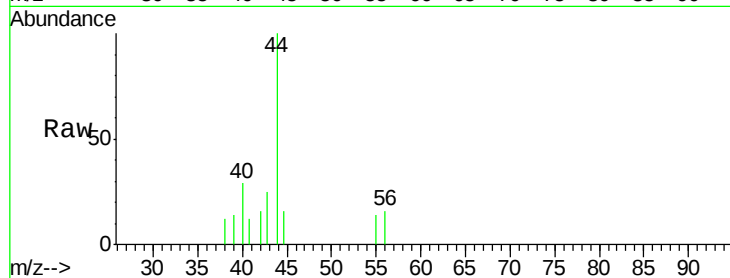
TRANSFORMER-5-1-BOTTOM

Tot Ion: 56 Resp: 111

Ion Ratio Lower Upper

56 100

55 60.4 55.9 83.9



#16

Acetone

Concen: 10.198 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN064587.D

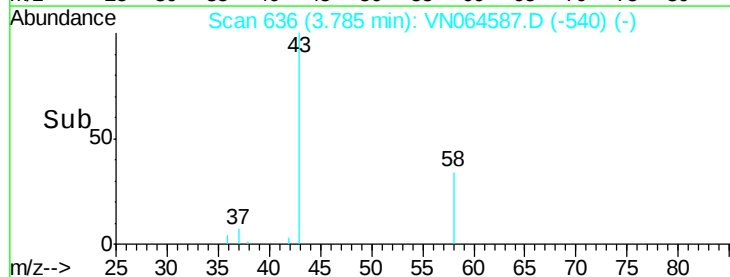
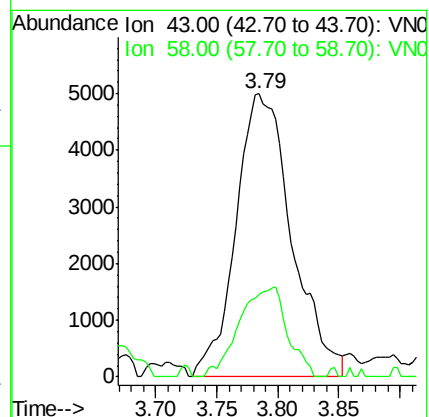
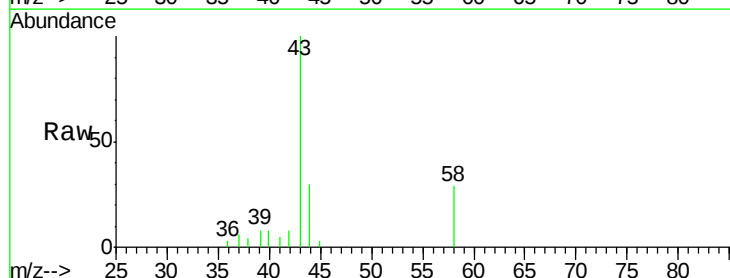
Acq: 12 Nov 2020 17:38

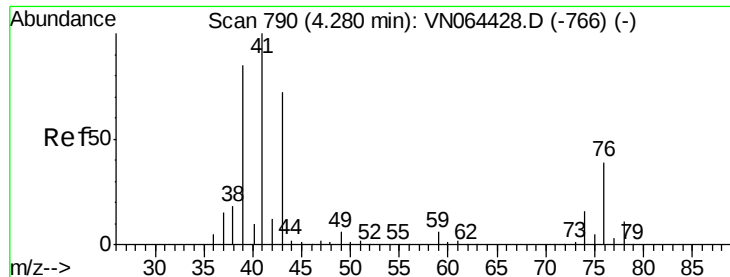
Tgt Ion: 43 Resp: 15906

Ion Ratio Lower Upper

43 100

58 29.0 21.4 32.0

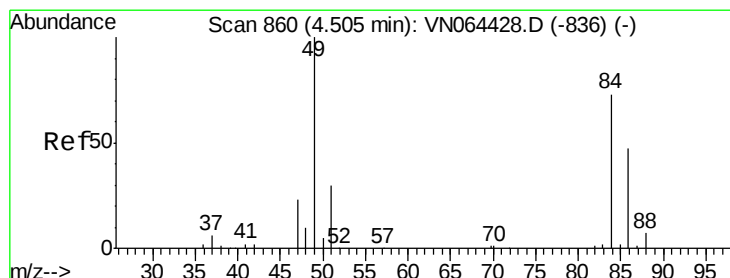
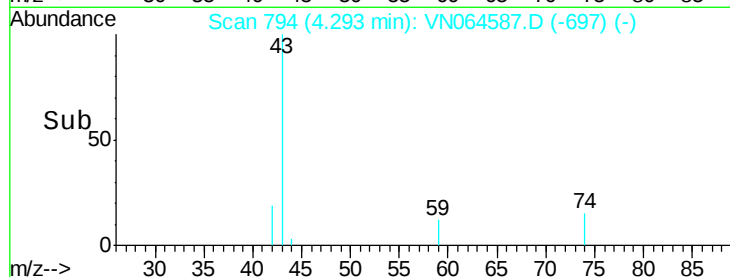
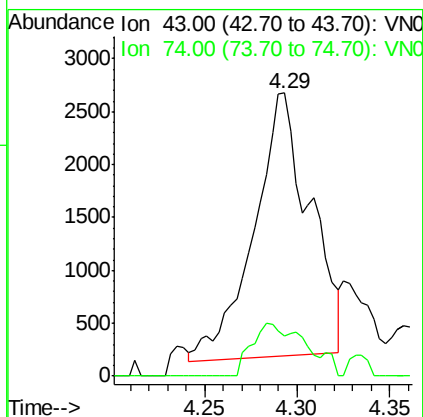
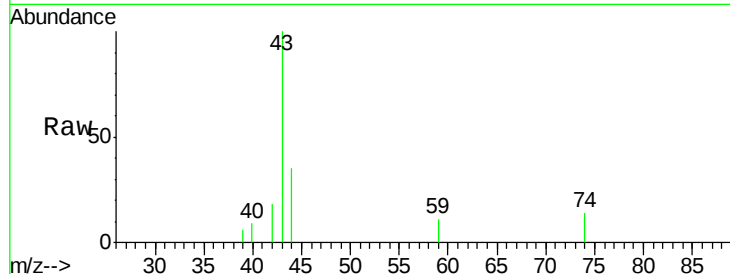




#18
Methyl Acetate
Concen: 1.710 ug/l
RT: 4.29 min Scan# 794
Delta R.T. 0.01 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

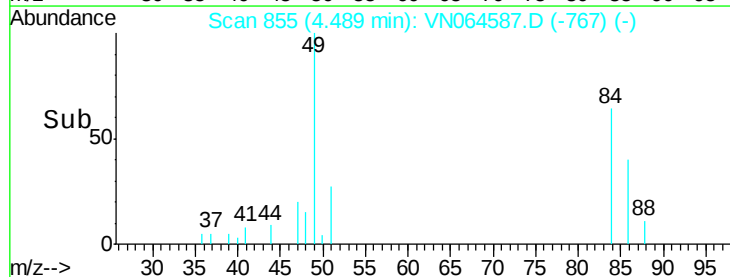
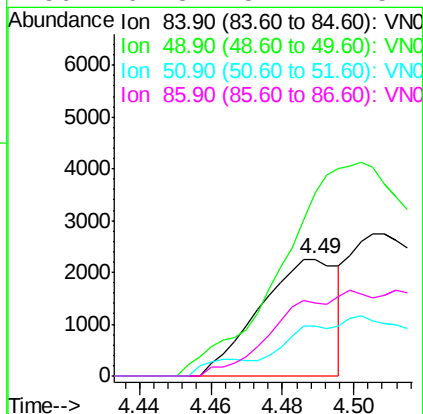
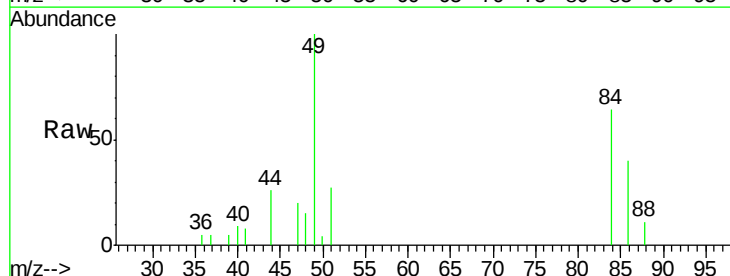
Instrument :
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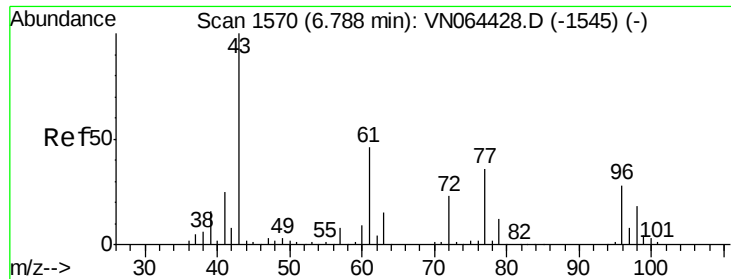
Tot Ion: 43 Resp: 5243
Ion Ratio Lower Upper
43 100
74 19.5 17.0 25.4



#20
Methylene Chloride
Concen: 1.105 ug/l
RT: 4.49 min Scan# 855
Delta R.T. -0.02 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

Tgt Ion: 84 Resp: 3420
Ion Ratio Lower Upper
84 100
49 147.2 110.1 165.1
51 43.2 33.6 50.4
86 62.3 52.1 78.1





#25

2-Butanone

Concen: 3.659 ug/l

RT: 6.81 min Scan# 1576

Delta R.T. 0.02 min

Lab File: VN064587.D

Acq: 12 Nov 2020 17:38

Instrument :

MSVOA_N

ClientSampleId :

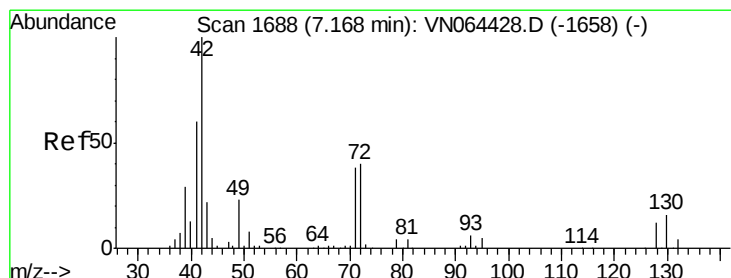
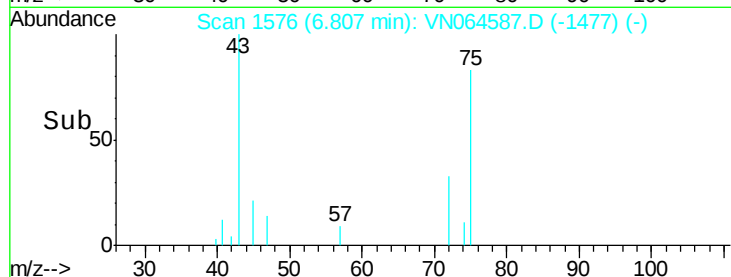
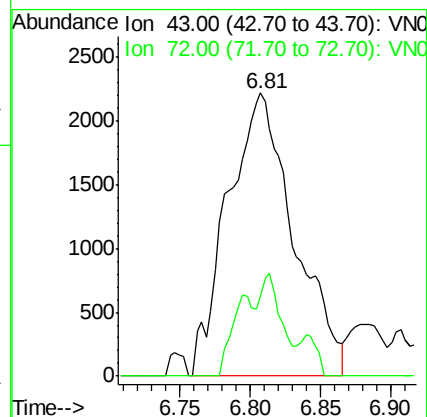
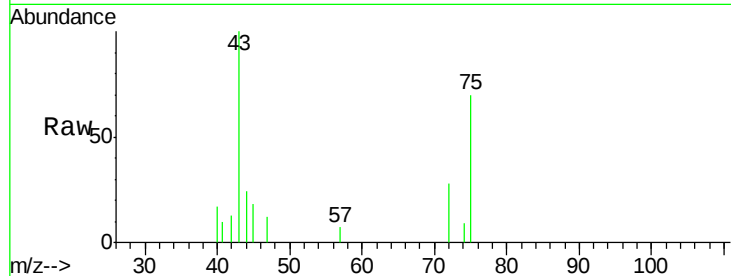
TRANSFORMER-5-1-BOTTOM

Tot Ion: 43 Resp: 7271

Ion Ratio Lower Upper

43 100

72 28.1 18.5 27.7#



#29

Tetrahydrofuran

Concen: 1.018 ug/l

RT: 7.19 min Scan# 1694

Delta R.T. 0.02 min

Lab File: VN064587.D

Acq: 12 Nov 2020 17:38

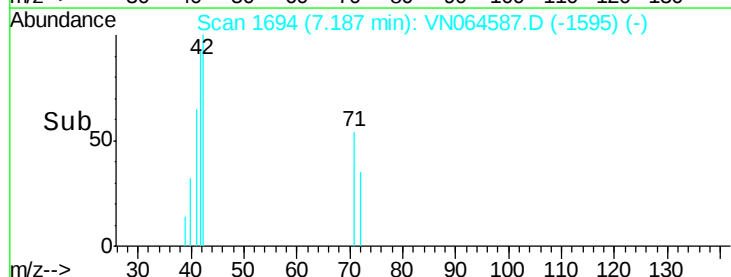
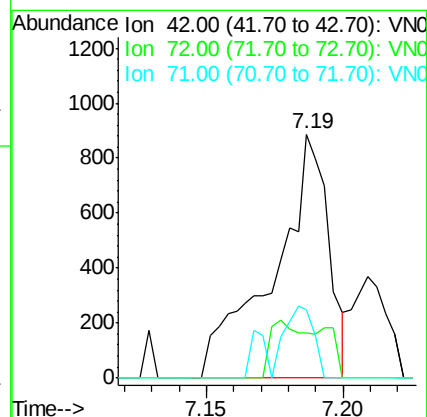
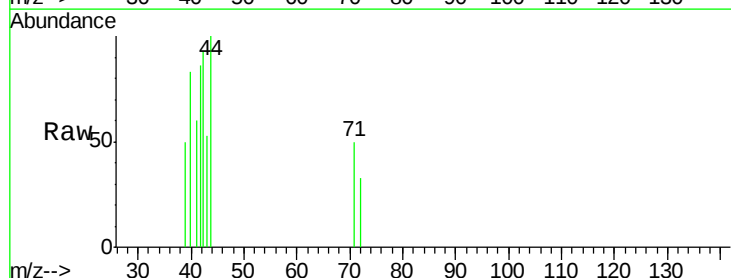
Tgt Ion: 42 Resp: 1241

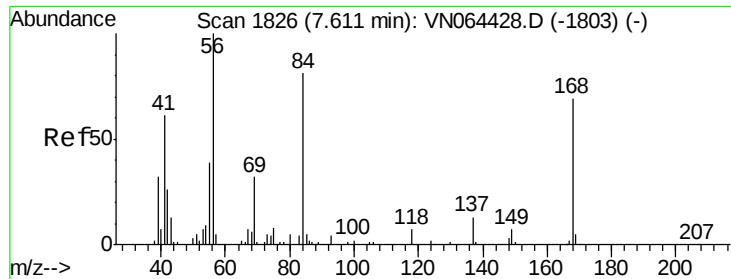
Ion Ratio Lower Upper

42 100

72 16.5 31.7 47.5#

71 15.9 29.8 44.6#

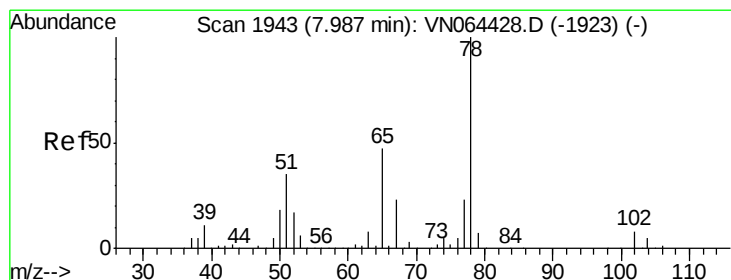
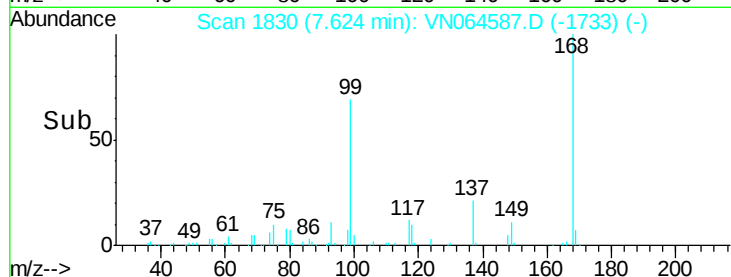
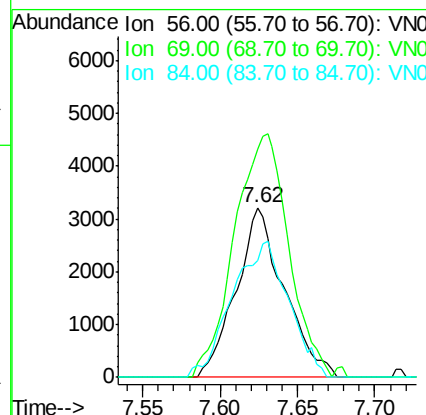
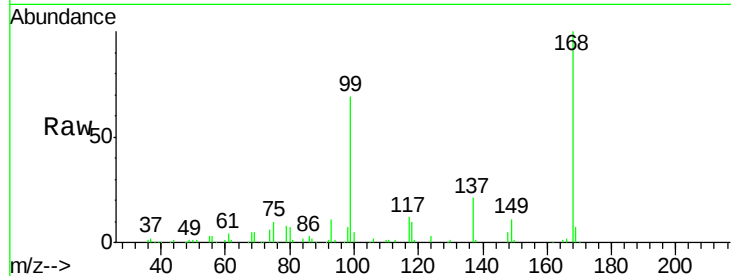




#31
Cyclohexane
Concen: 1.393 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

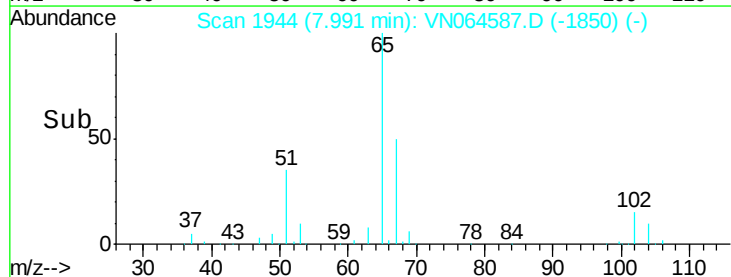
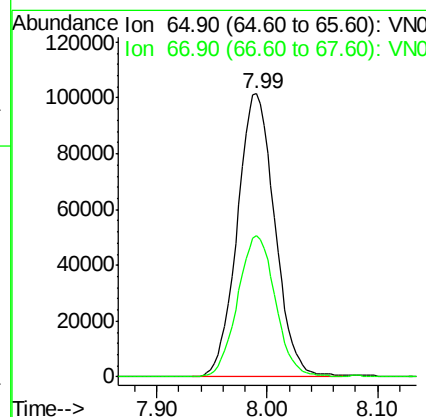
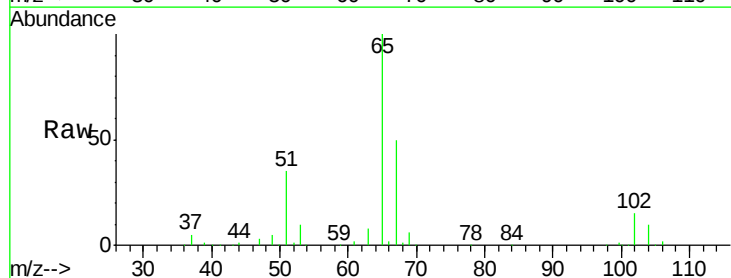
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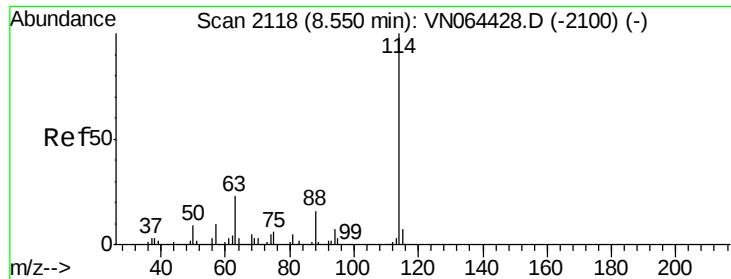
Tot Ion: 56 Resp: 6935
Ion Ratio Lower Upper
56 100
69 134.9 25.6 38.4#
84 69.2 63.0 94.6



#33
1,2-Dichloroethane-d4
Concen: 58.420 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

Tgt Ion: 65 Resp: 239199
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.6

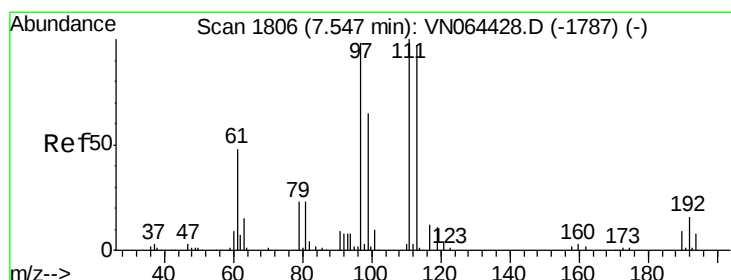
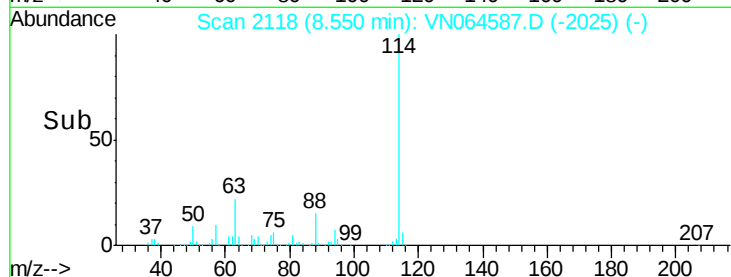
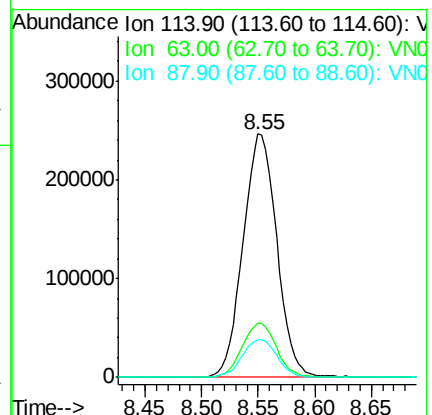
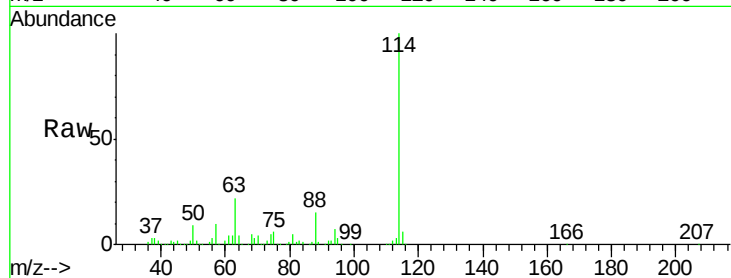




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

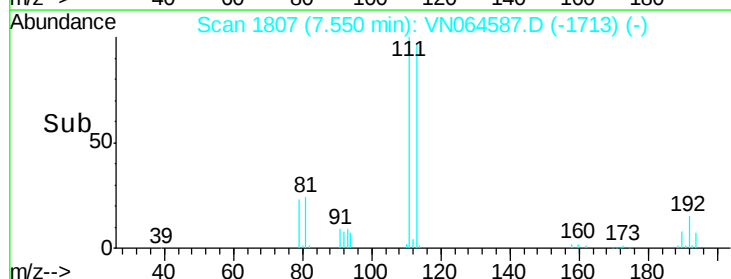
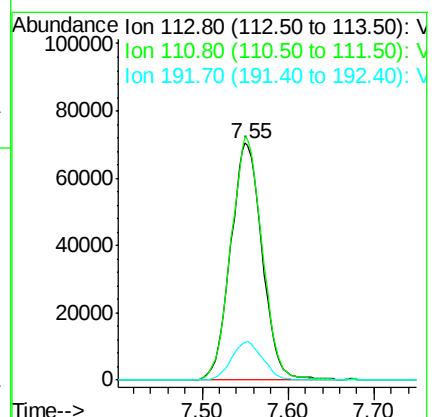
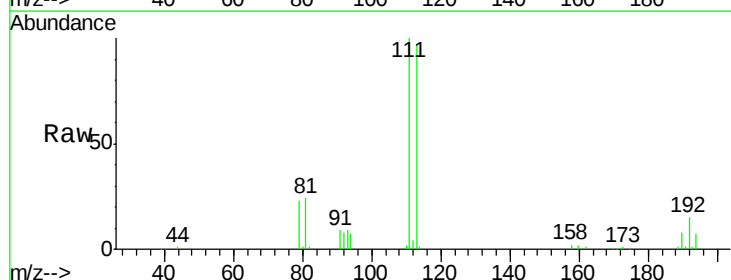
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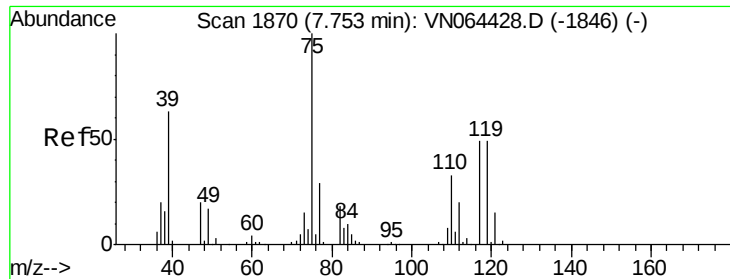
Tot Ion:114 Resp: 513392
Ion Ratio Lower Upper
114 100
63 22.3 0.0 45.6
88 15.2 0.0 32.8



#35
Dibromofluoromethane
Concen: 51.389 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

Tgt Ion:113 Resp: 179629
Ion Ratio Lower Upper
113 100
111 101.3 81.1 121.7
192 16.0 12.8 19.2

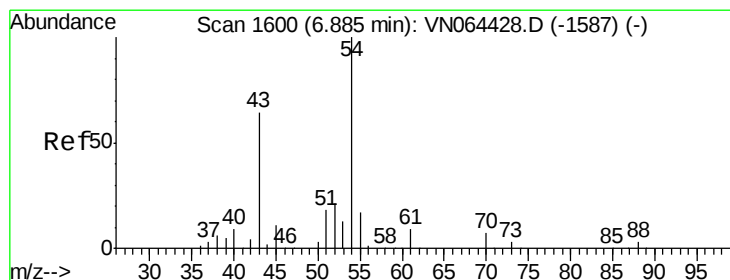
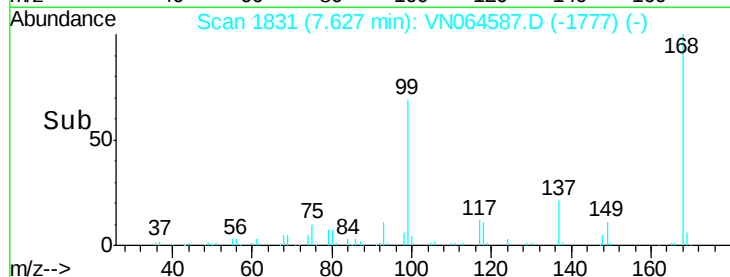
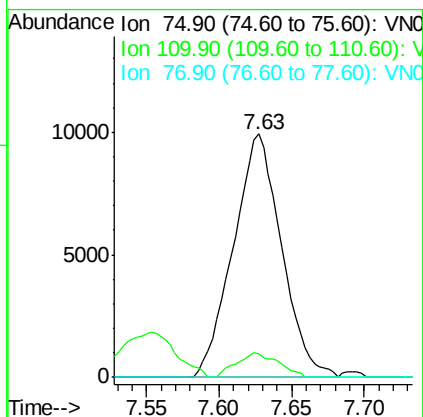
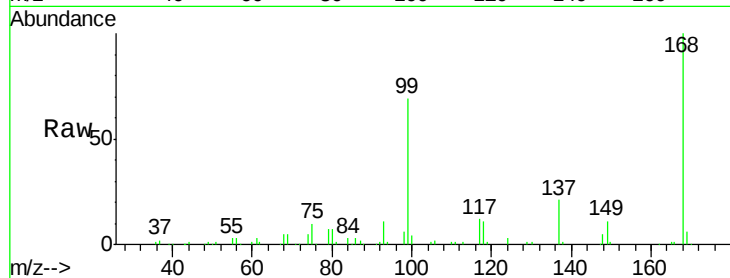




#36
 1,1-Dichloropropene
 Concen: 4.230 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064587.D
 Acq: 12 Nov 2020 17:38

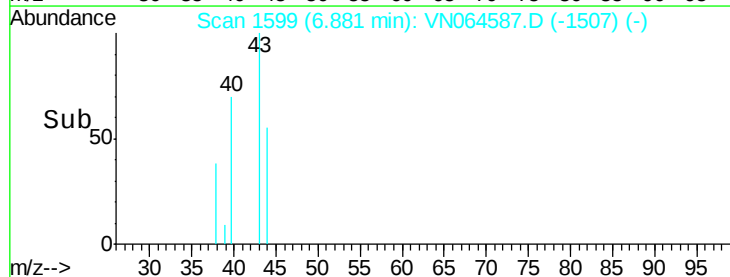
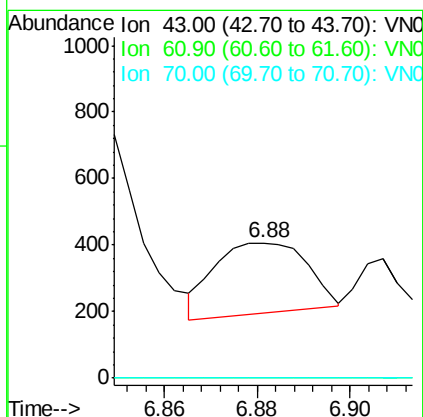
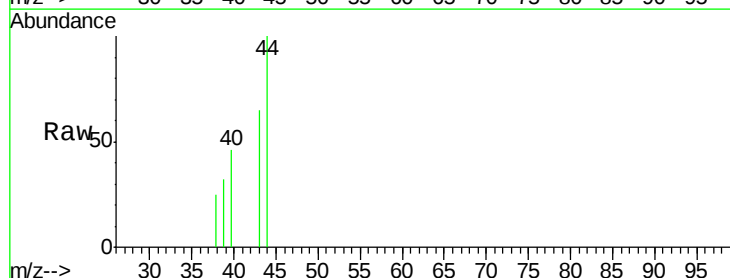
Instrument :
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 TRANSFORMER-5-1-BOTTOM

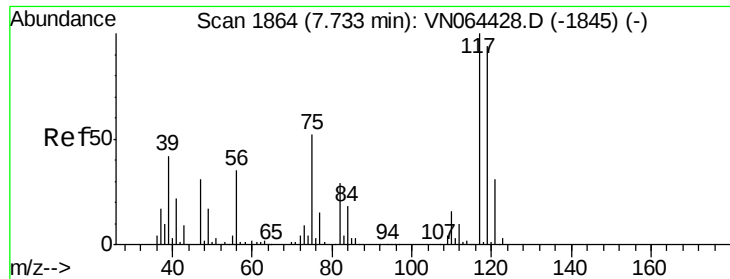
Tot Ion: 75 Resp: 22941
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.0 48.0#
 77 0.0 24.0 36.0#



#37
 Ethyl Acetate
 Concen: 0.815 ug/l
 RT: 6.88 min Scan# 1599
 Delta R.T. -0.00 min
 Lab File: VN064587.D
 Acq: 12 Nov 2020 17:38

Tgt Ion: 43 Resp: 296
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.0 15.0#
 70 0.0 7.1 10.7#

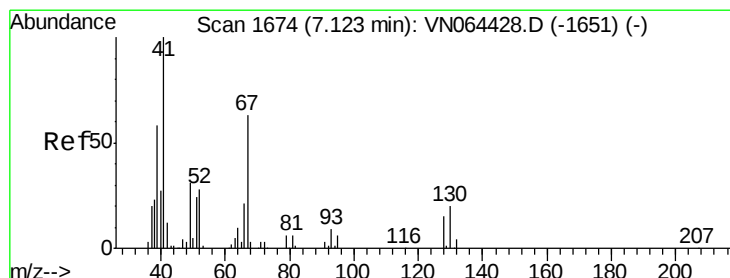
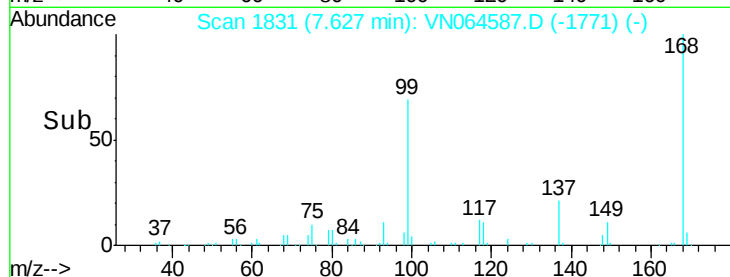
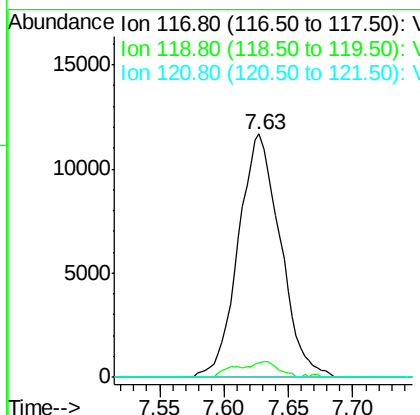
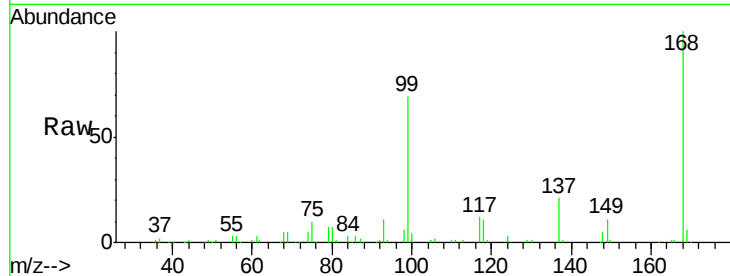




#38
Carbon Tetrachloride
Concen: 4.571 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

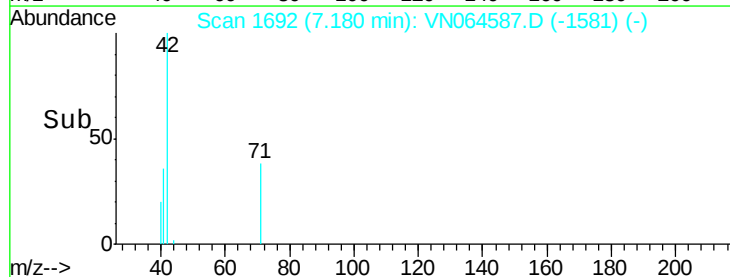
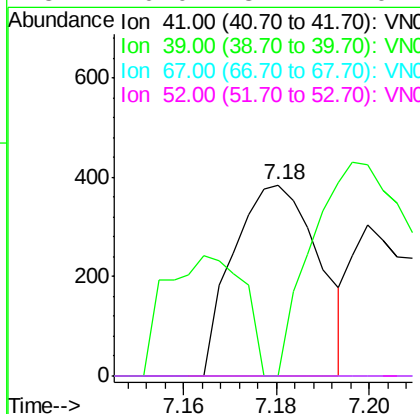
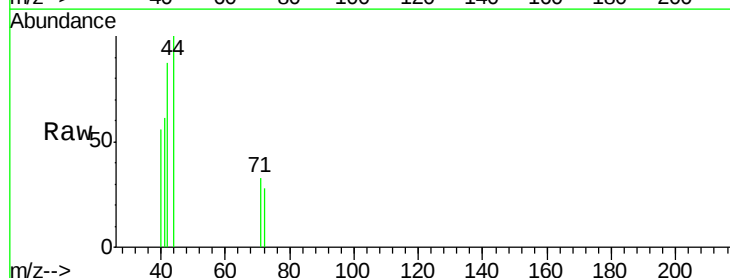
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-1-BOTTOM

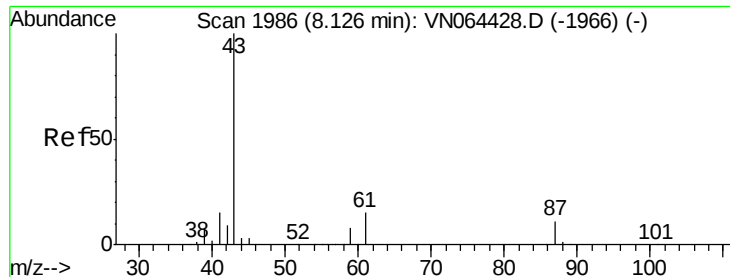
Tot Ion:117 Resp: 26495
Ion Ratio Lower Upper
117 100
119 6.2 75.5 113.3#
121 0.0 24.4 36.6#



#41
Methacrylonitrile
Concen: 0.205 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.06 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

Tgt Ion: 41 Resp: 494
Ion Ratio Lower Upper
41 100
39 56.7 50.0 75.0
67 0.0 68.3 102.5#
52 0.0 32.7 49.1#



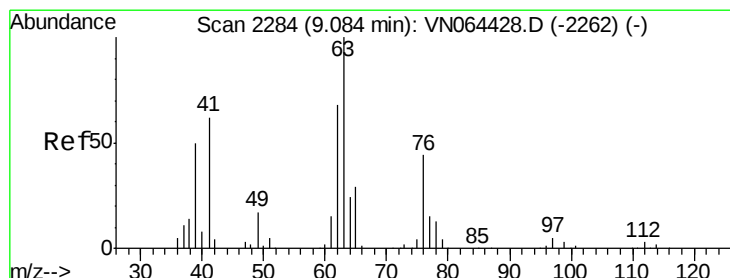
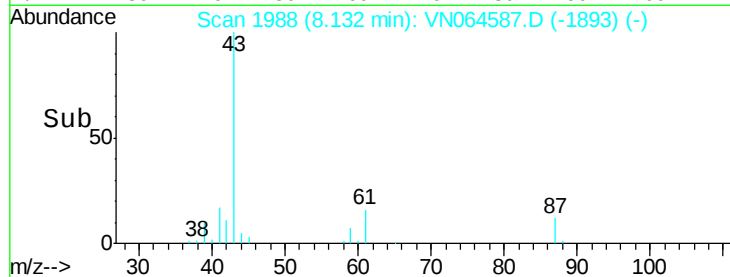
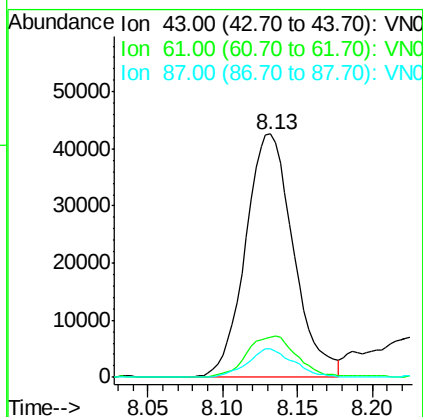
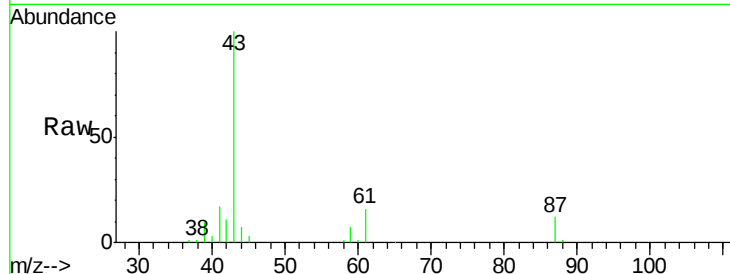


#43

Isopropyl Acetate
 Concen: 10.804 ug/l
 RT: 8.13 min Scan# 1988
 Delta R.T. 0.01 min
 Lab File: VN064587.D
 Acq: 12 Nov 2020 17:38

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-5-1-BOTTOM

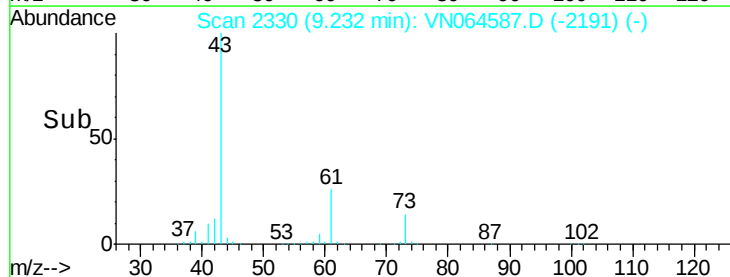
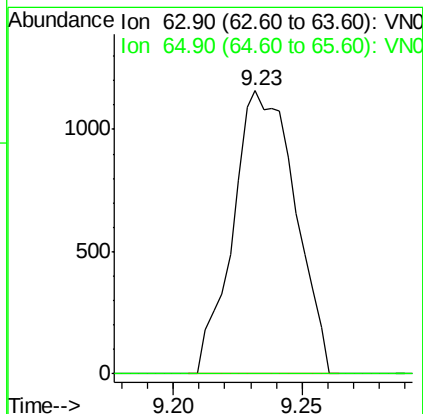
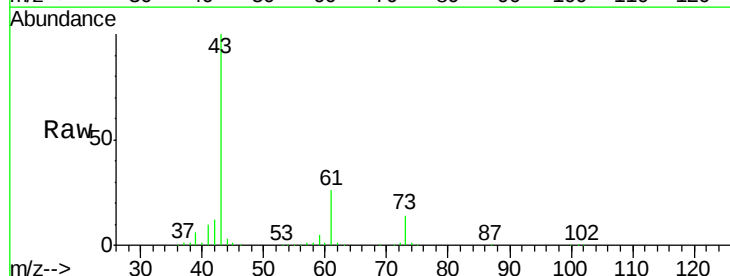
Tot Ion	43	61	87
Resp:	94961		
Ion Ratio	100	17.6	11.3
Lower		14.0	9.1
Upper		21.0	13.7

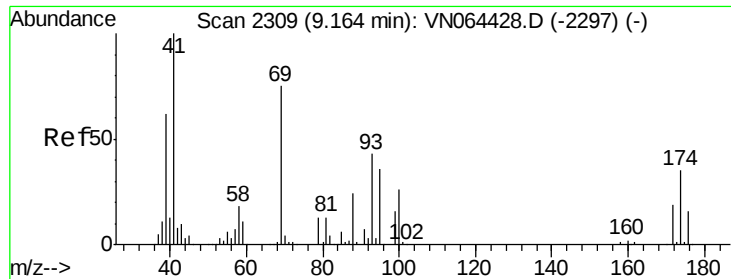


#45

1,2-Dichloropropane
 Concen: 0.459 ug/l
 RT: 9.23 min Scan# 2330
 Delta R.T. 0.15 min
 Lab File: VN064587.D
 Acq: 12 Nov 2020 17:38

Tgt Ion	63	65
Resp:	1950	
Ion Ratio	100	0.0
Lower		23.6
Upper		35.4#

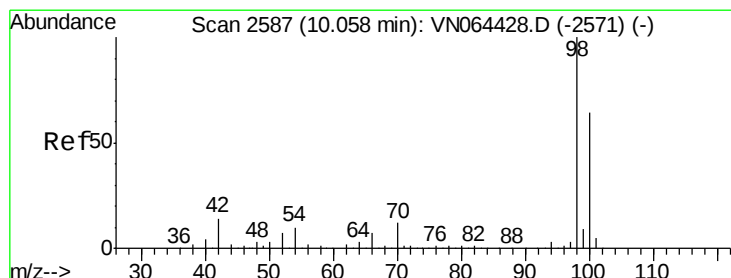
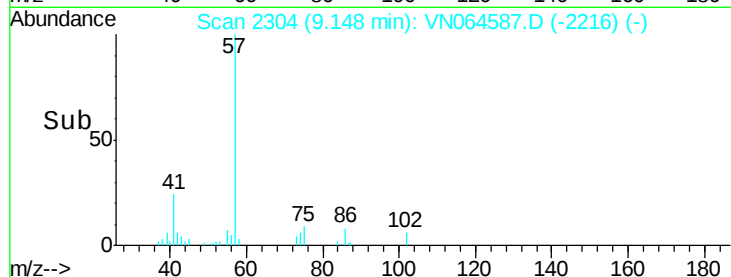
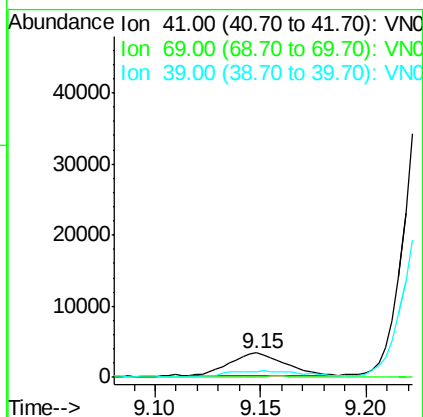
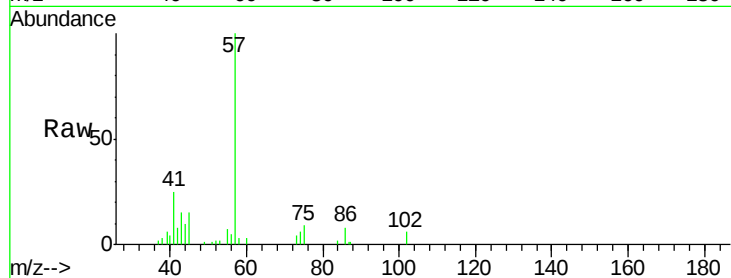




#48
Methvl methacrylate
Concen: 1.232 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

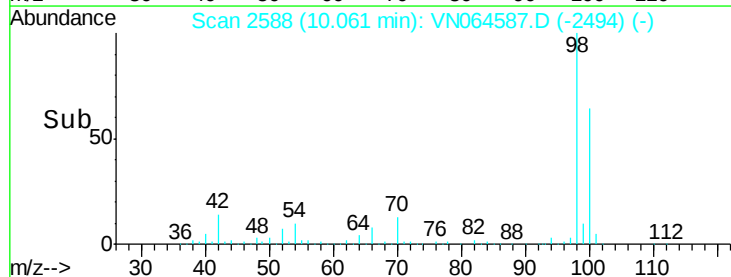
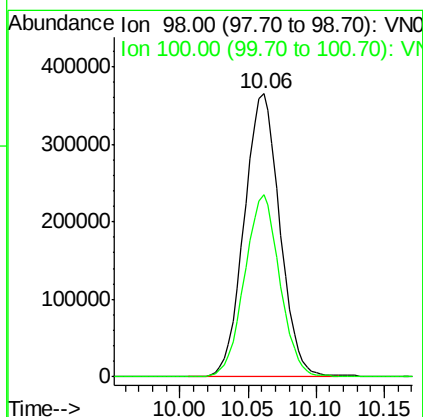
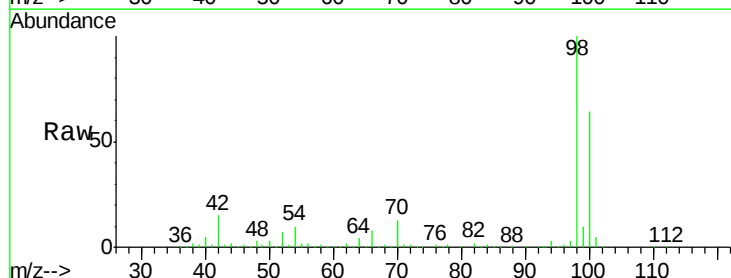
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-1-BOTTOM

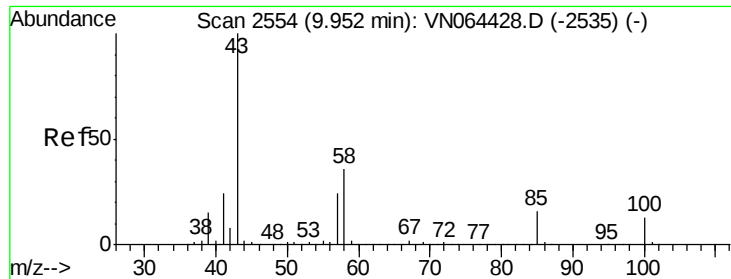
Tot Ion: 41 Resp: 5462
Ion Ratio Lower Upper
41 100
69 2.3 60.4 90.6#
39 0.0 51.2 76.8#



#50
Toluene-d8
Concen: 49.070 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

Tgt Ion: 98 Resp: 662936
Ion Ratio Lower Upper
98 100
100 63.8 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 1.585 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064587.D

Acq: 12 Nov 2020 17:38

Instrument :

MSVOA_N

ClientSampleId :

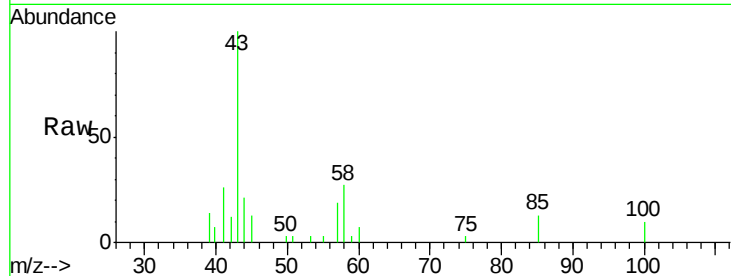
TRANSFORMER-5-1-BOTTOM

Tot Ion: 43 Resp: 8126

Ion Ratio Lower Upper

43 100

58 38.8 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN064428.D (-2535) (-)

Ion 58.00 (57.70 to 58.70): VN064428.D (-2535) (-)

20000

15000

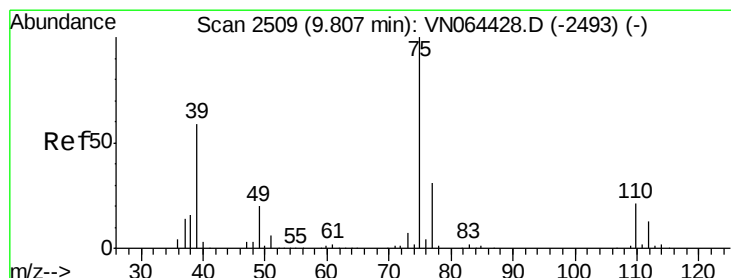
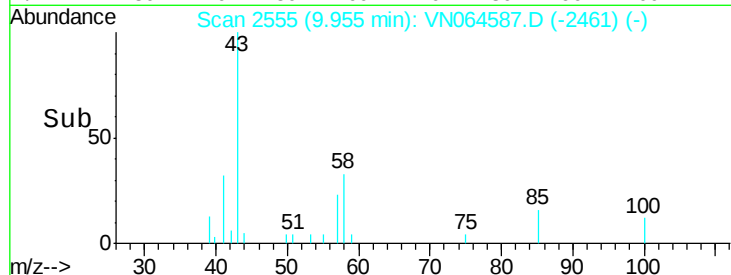
10000

5000

0

9.90 9.95 10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 4.563 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064587.D

Acq: 12 Nov 2020 17:38

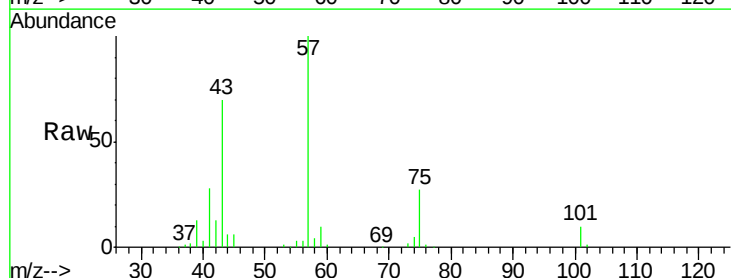
Tgt Ion: 75 Resp: 31131

Ion Ratio Lower Upper

75 100

77 0.9 24.9 37.3#

39 46.5 47.1 70.7#



Abundance Ion 74.90 (74.60 to 75.60): VN064428.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN064428.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN064428.D (-2493) (-)

25000

20000

15000

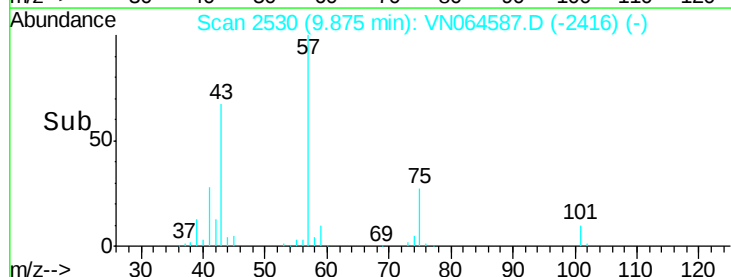
10000

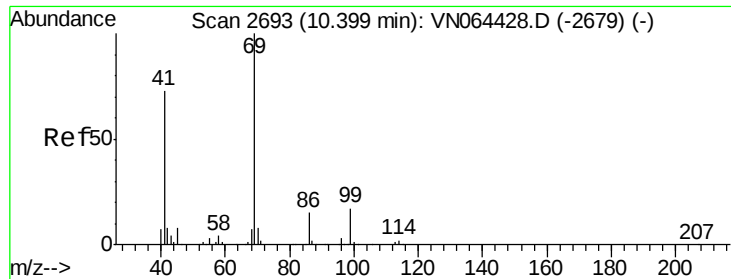
5000

0

9.80 9.85 9.90 9.95

Time-->





#56

Ethyl methacrylate

Concen: 2.425 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN064587.D

Acq: 12 Nov 2020 17:38

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-1-BOTTOM

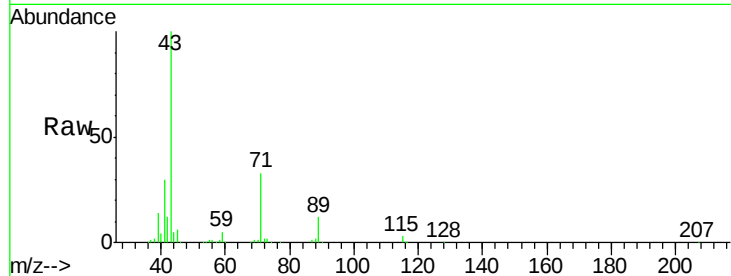
Tot Ion: 69 Resp: 3781

Ion Ratio Lower Upper

69 100

41 2391.2 59.3 88.9#

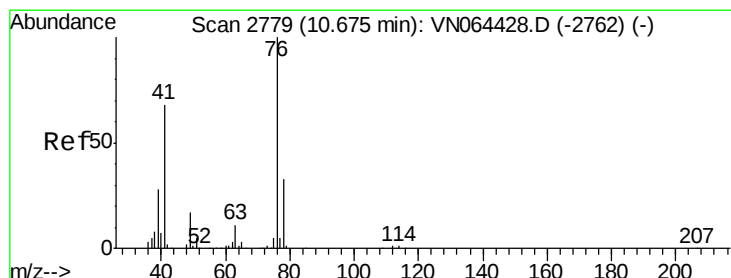
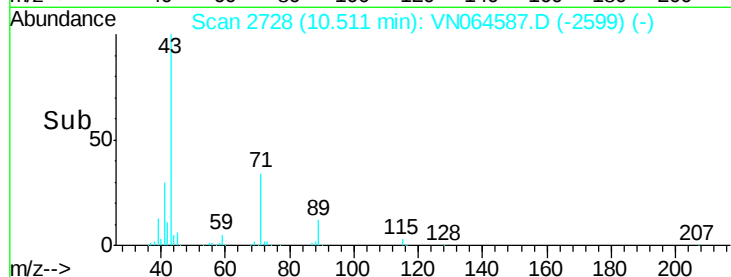
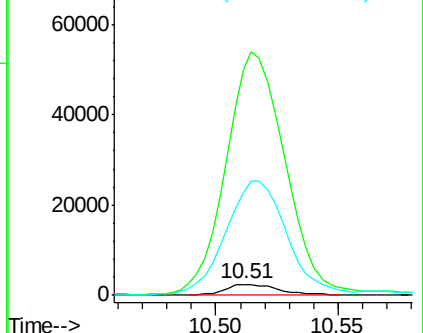
39 1174.2 35.4 53.0#



Abundance Ion 69.00 (68.70 to 69.70): VN064428.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN064428.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN064428.D (-2679) (-)



#57

1,3-Dichloropropane

Concen: 0.371 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN064587.D

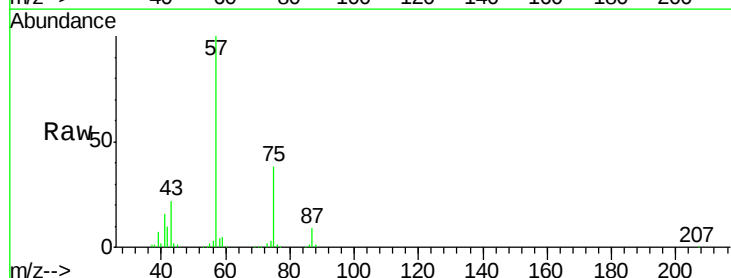
Acq: 12 Nov 2020 17:38

Tgt Ion: 76 Resp: 2455

Ion Ratio Lower Upper

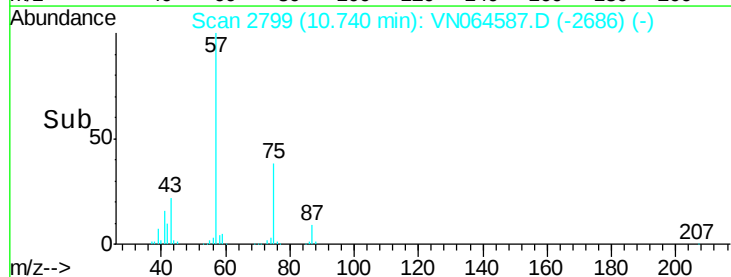
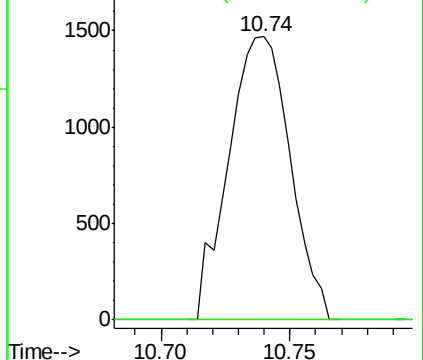
76 100

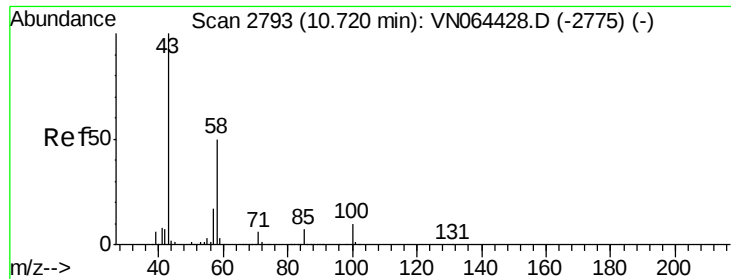
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN064428.D (-2762) (-)

Ion 77.90 (77.60 to 78.60): VN064428.D (-2762) (-)

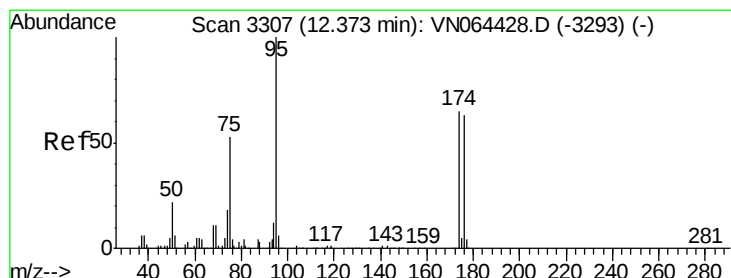
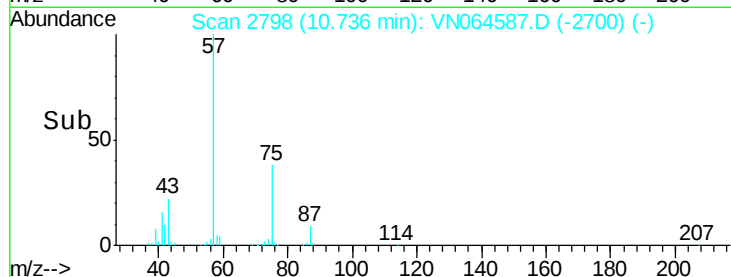
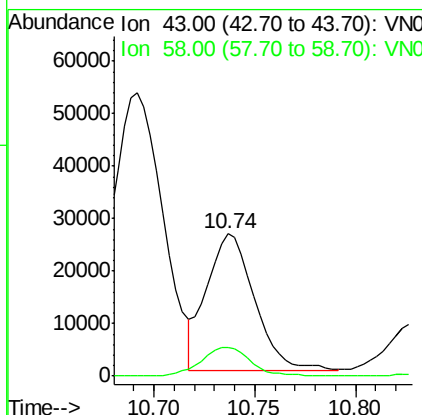
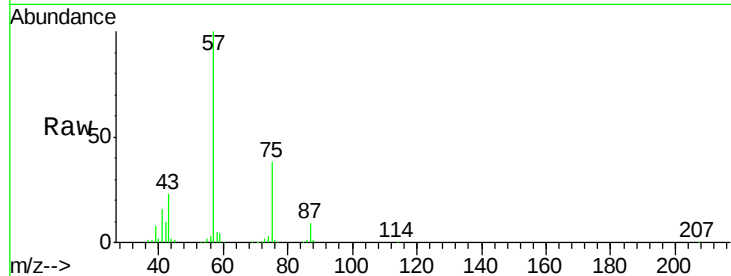




#59
2-Hexanone
Concen: 14.160 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

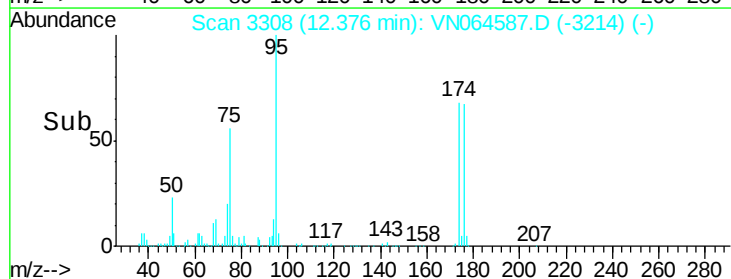
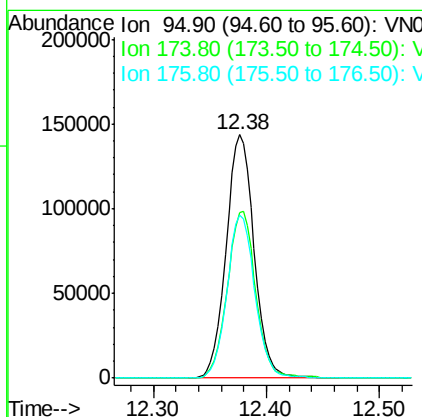
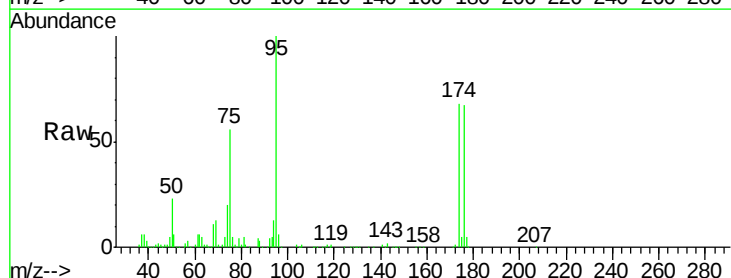
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-1-BOTTOM

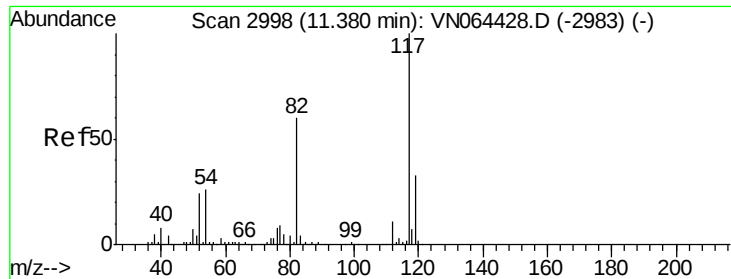
Tot Ion: 43 Resp: 43041
Ion Ratio Lower Upper
43 100
58 21.9 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 48.345 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

Tgt Ion: 95 Resp: 247013
Ion Ratio Lower Upper
95 100
174 69.8 0.0 132.6
176 67.0 0.0 129.2

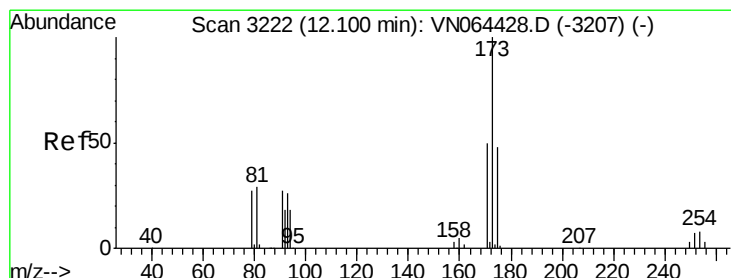
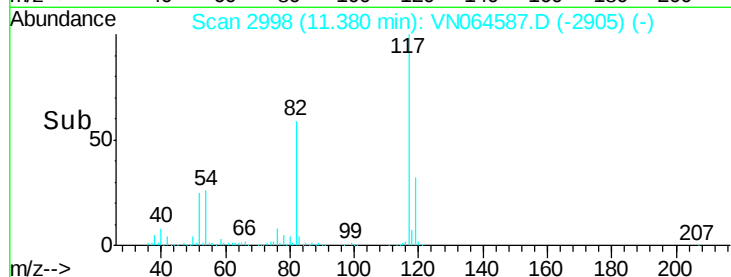
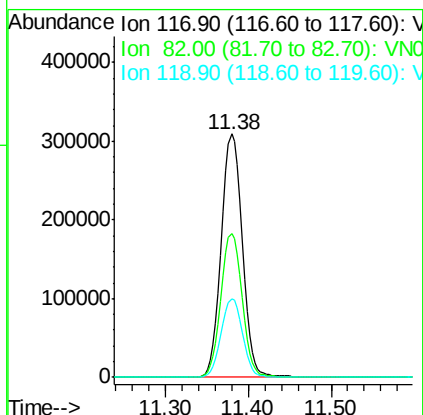
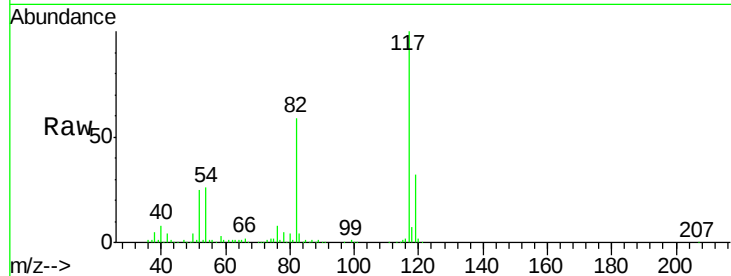




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

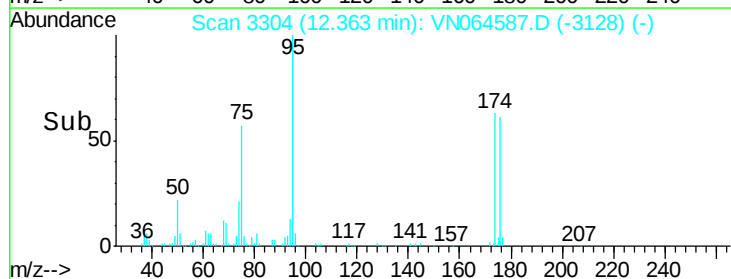
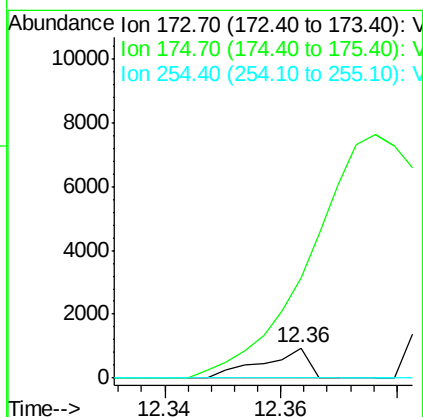
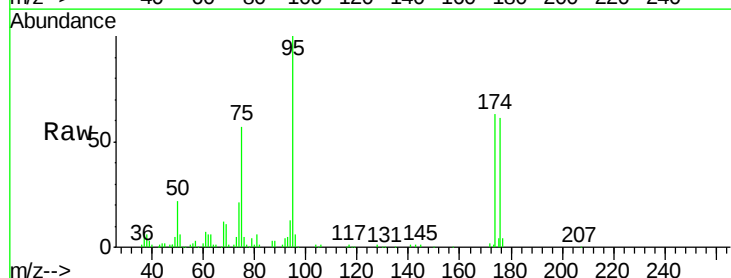
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-1-BOTTOM

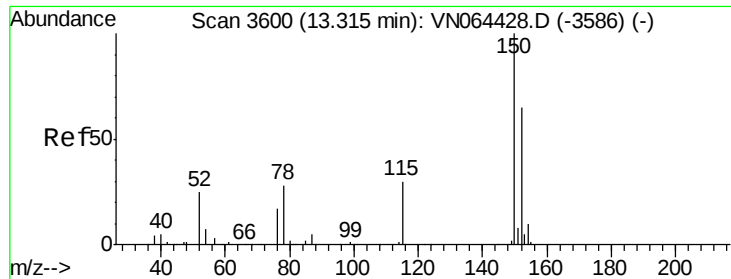
Tot Ion:117 Resp: 544514
Ion Ratio Lower Upper
117 100
82 59.3 48.1 72.1
119 32.3 26.2 39.4



#71
Bromoform
Concen: 1.424 ug/l
RT: 12.36 min Scan# 3304
Delta R.T. 0.26 min
Lab File: VN064587.D
Acq: 12 Nov 2020 17:38

Tgt Ion:173 Resp: 510
Ion Ratio Lower Upper
173 100
175 0.0 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# 3601

Delta R.T. 0.00 min

Lab File: VN064587.D

Acq: 12 Nov 2020 17:38

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-1-BOTTOM

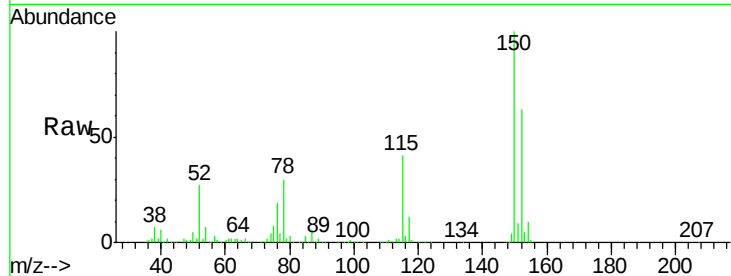
Tot Ion:152 Resp: 196851

Ion Ratio Lower Upper

152 100

115 64.5 32.0 96.0

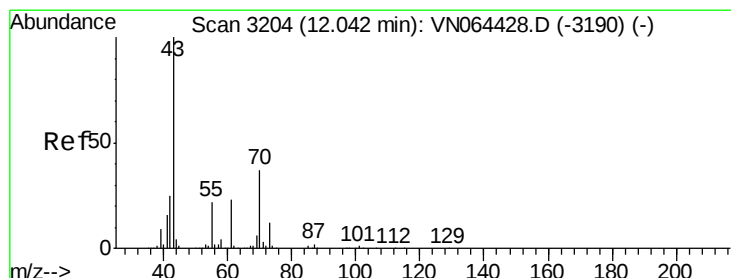
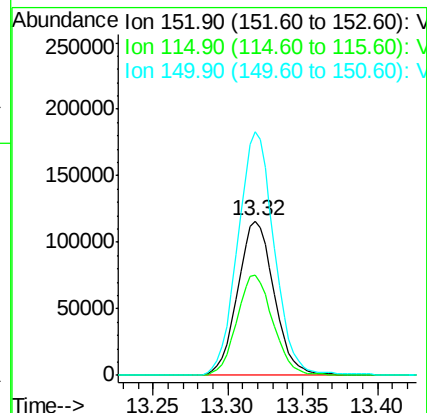
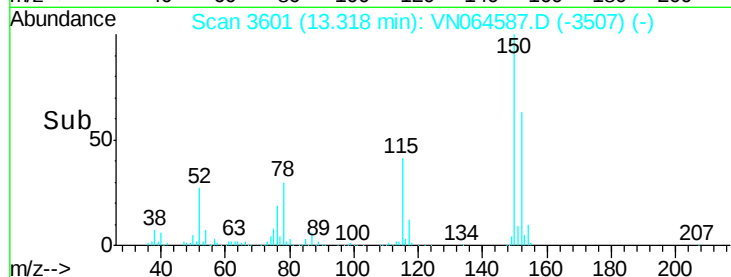
150 158.6 0.0 353.8



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: 1.298 ug/l

RT: 12.07 min Scan# 3212

Delta R.T. 0.03 min

Lab File: VN064587.D

Acq: 12 Nov 2020 17:38

Tgt Ion: 43 Resp: 650

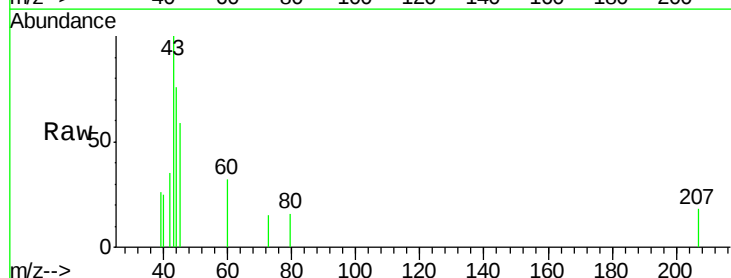
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 9.4 18.4 27.6#

61 0.0 17.8 26.6#

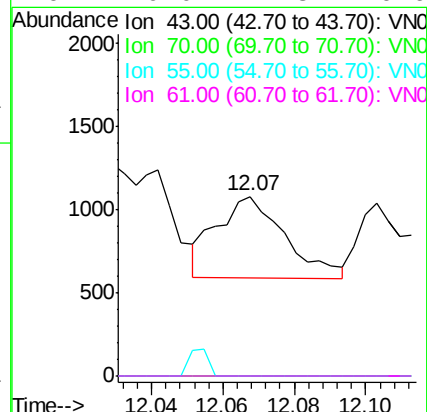
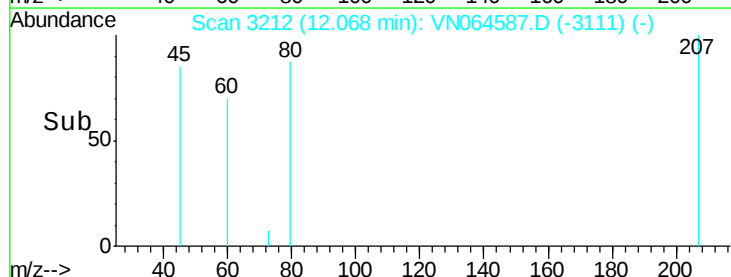


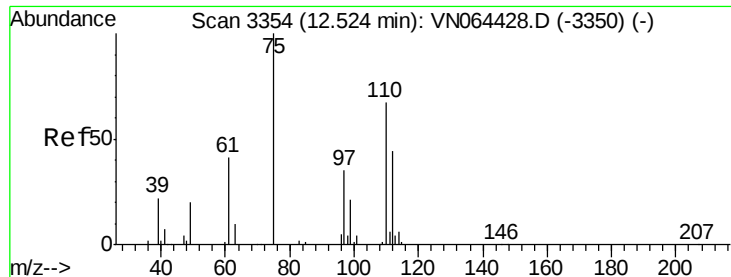
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.231 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064587.D

Acq: 12 Nov 2020 17:38

Instrument :

MSVOA_N

ClientSampleId :

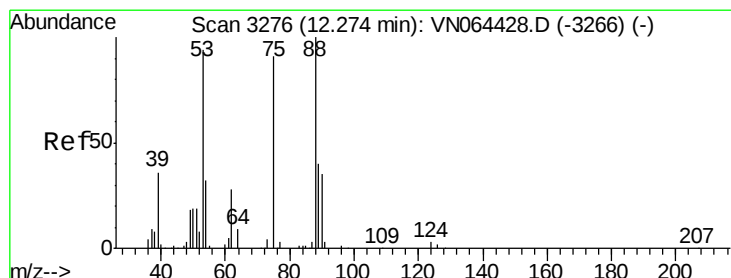
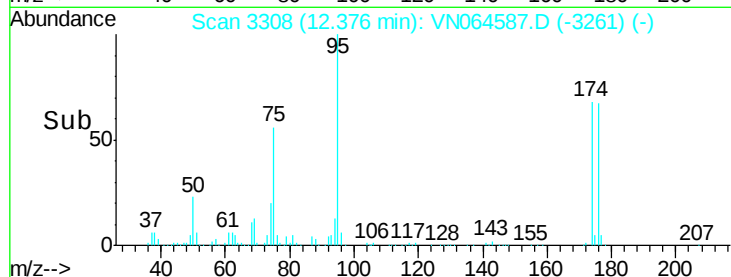
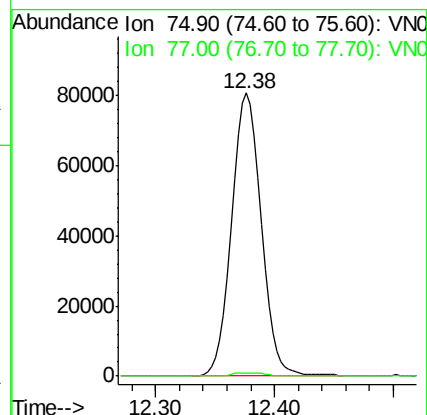
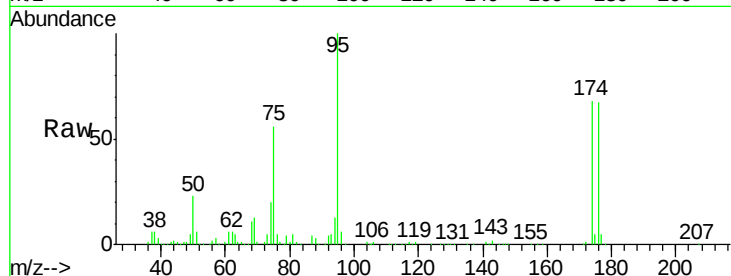
TRANSFORMER-5-1-BOTTOM

Tot Ion: 75 Resp: 139420

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.617 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064587.D

Acq: 12 Nov 2020 17:38

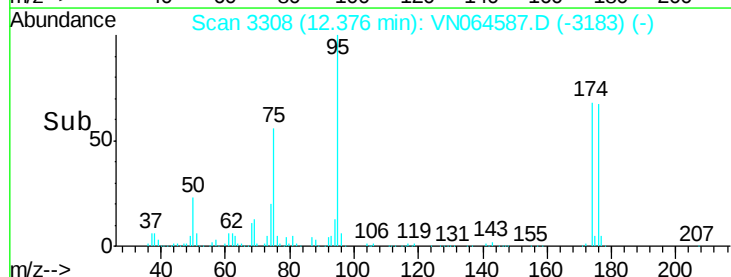
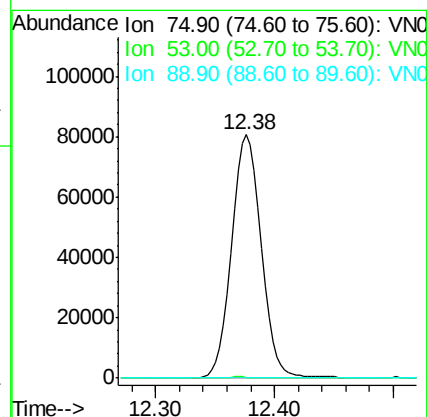
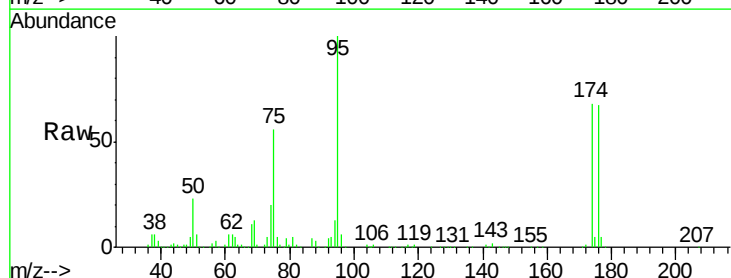
Tgt Ion: 75 Resp: 139420

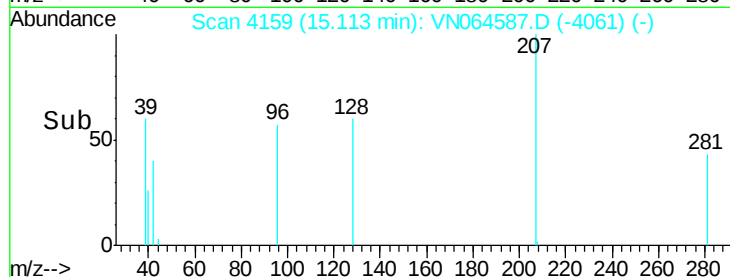
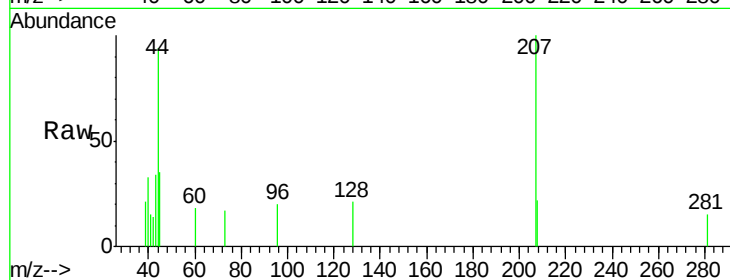
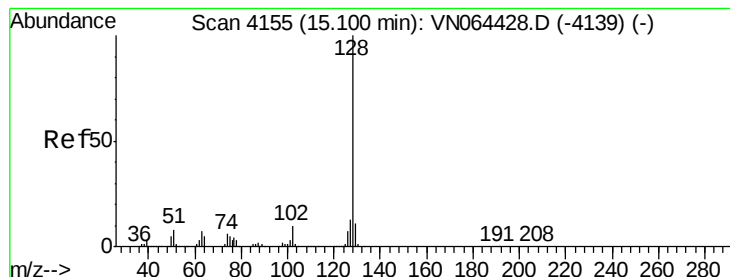
Ion Ratio Lower Upper

75 100

53 0.3 84.0 126.0#

89 0.1 36.3 54.5#





#95

Naphthalene

Concen: 3.630 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN064587.D

Acq: 12 Nov 2020 17:38

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-1-BOTTOM

Tot Ion:128 Resp: 88

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.8 13.2#

