

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064593.D
 Acq On : 12 Nov 2020 20:04
 Operator : JC/MD
 Sample : L4701-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-5-4-BOTTOM

Quant Time: Nov 13 02:55:30 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	222594	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	481584	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	516507	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	183302	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	227274	58.62	ug/l	0.00
Spiked Amount			Recovery	=	117.24%	
35) Dibromofluoromethane	7.55	113	165960	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
50) Toluene-d8	10.06	98	635452	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	12.38	95	231892	48.38	ug/l	0.00
Spiked Amount			Recovery	=	96.76%	

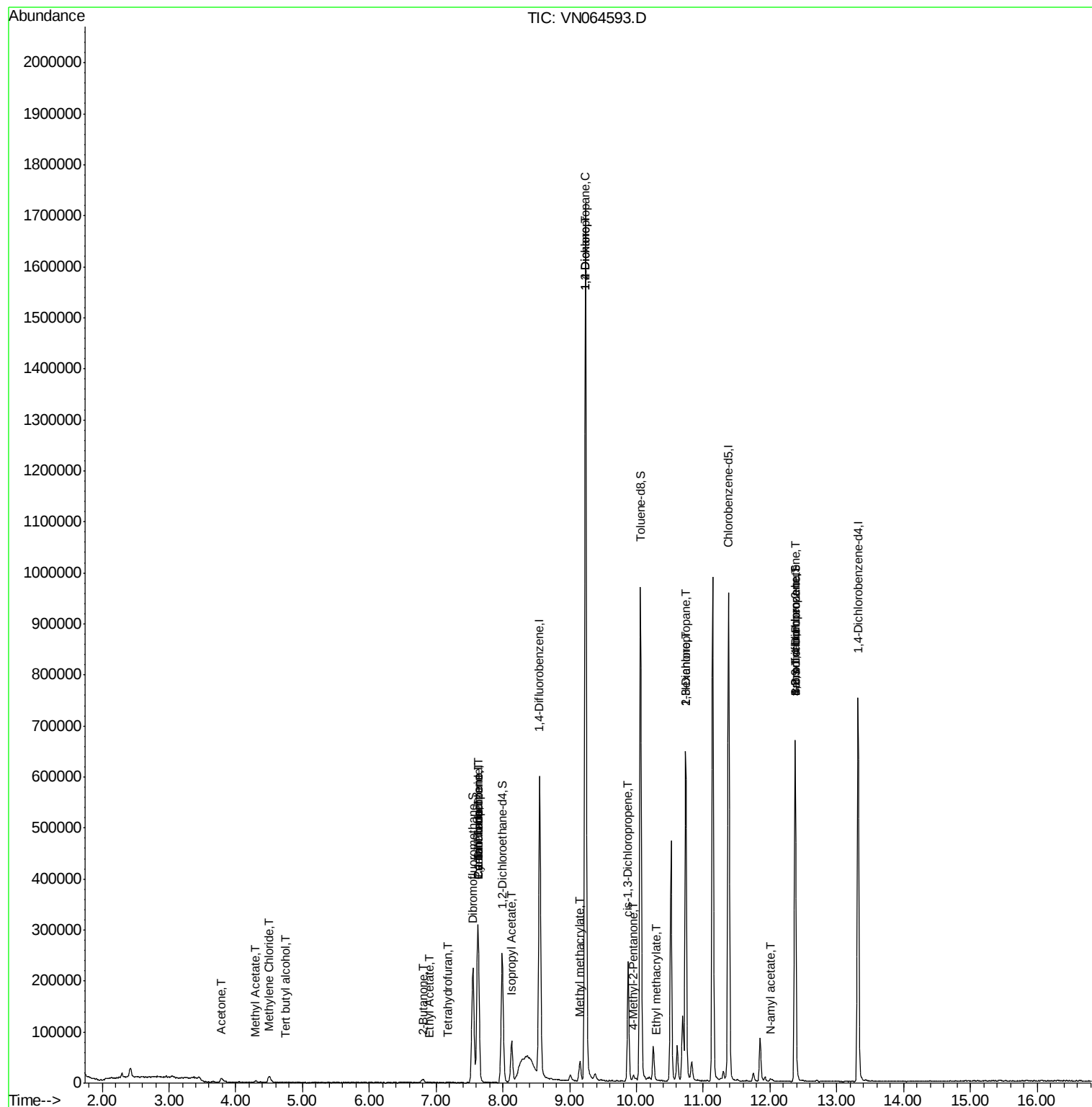
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	379	0.886	ug/l #	71
16) Acetone	3.77	43	4704	3.185	ug/l #	87
18) Methyl Acetate	4.29	43	3003	1.034	ug/l #	83
20) Methylene Chloride	4.50	84	8287	2.828	ug/l #	86
25) 2-Butanone	6.81	43	7360	3.911	ug/l	91
29) Tetrahydrofuran	7.18	42	568	0.492	ug/l #	69
31) Cyclohexane	7.63	56	6521	1.384	ug/l #	30
36) 1,1-Dichloropropene	7.62	75	22096	4.343	ug/l #	49
37) Ethyl Acetate	6.90	43	290	0.818	ug/l #	71
38) Carbon Tetrachloride	7.63	117	26124	4.805	ug/l #	17
43) Isopropyl Acetate	8.13	43	95734	11.611	ug/l	99
45) 1,2-Dichloropropane	9.24	63	2038	0.511	ug/l #	45
48) Methyl methacrylate	9.15	41	6351	1.527	ug/l #	15
49) 1,4-Dioxane	9.24	88	124	2.263	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	9868	2.052	ug/l #	83
54) cis-1,3-Dichloropropene	9.87	75	35249	5.508	ug/l #	76
56) Ethyl methacrylate	10.31	69	143	1.865	ug/l #	20
57) 1,3-Dichloropropane	10.74	76	6541	1.054	ug/l #	42
59) 2-Hexanone	10.74	43	105032	30.385	ug/l #	57
71) Bromoform	12.37	173	528	1.437	ug/l #	1
74) N-amyl acetate	12.00	43	2654	1.581	ug/l #	54
76) 1,2,3-Trichloropropane	12.38	75	130841	29.460	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	130841	82.257	ug/l #	8

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

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Quant Title : SW846 8260
QLast Update : Wed Nov 04 12:09:03 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064593.D

Acq: 12 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

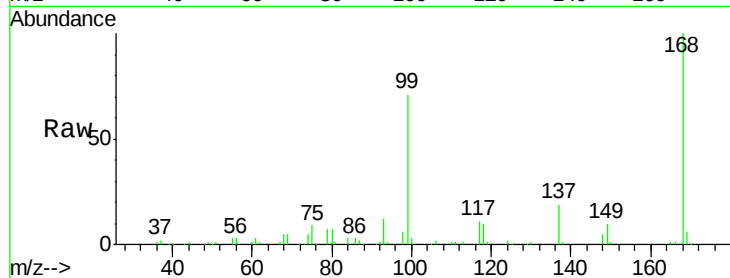
TRANSFORMER-5-4-BOTTOM

Tot Ion:168 Resp: 222594

Ion Ratio Lower Upper

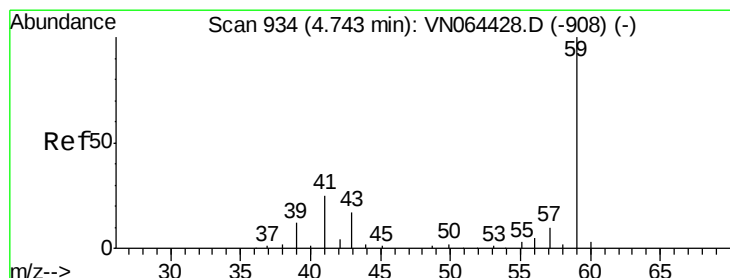
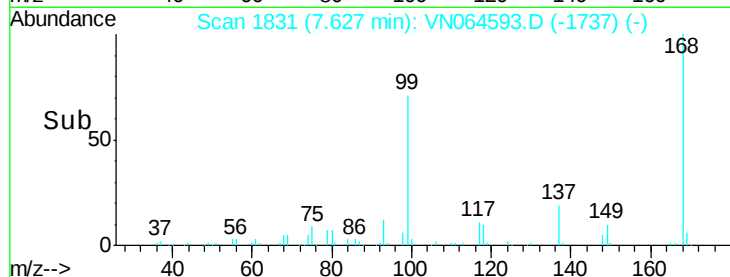
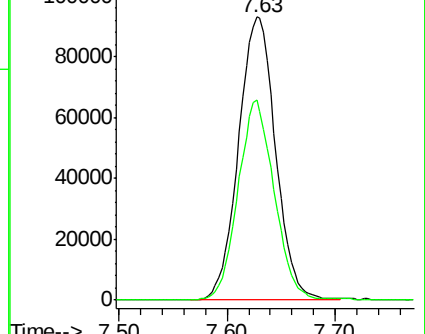
168 100

99 70.5 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.886 ug/l

RT: 4.74 min Scan# 933

Delta R.T. -0.00 min

Lab File: VN064593.D

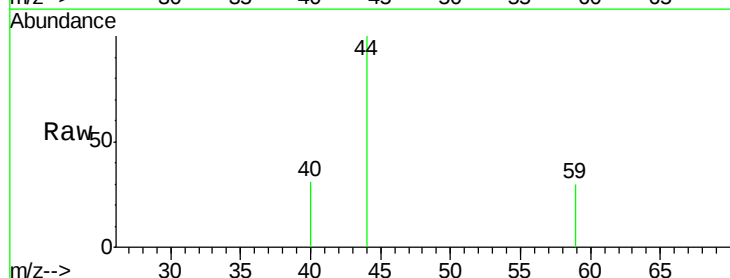
Acq: 12 Nov 2020 20:04

Tgt Ion: 59 Resp: 379

Ion Ratio Lower Upper

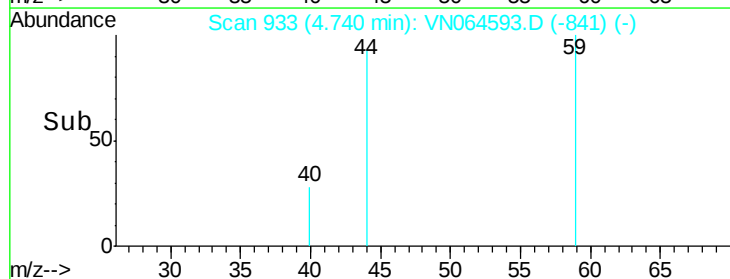
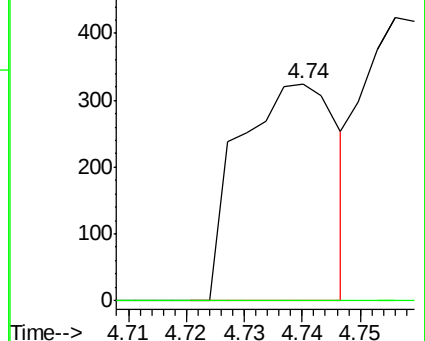
59 100

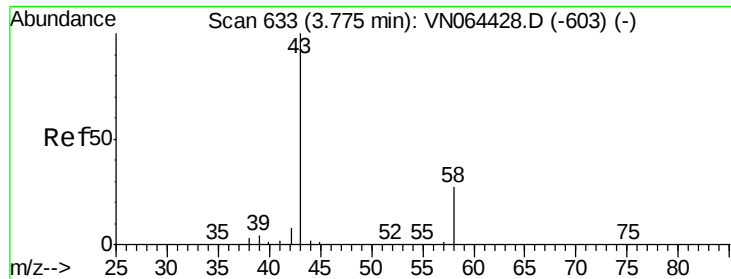
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

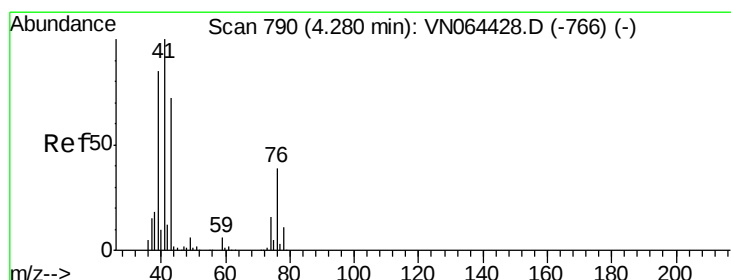
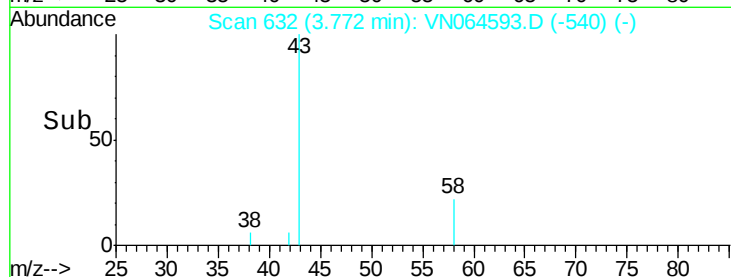
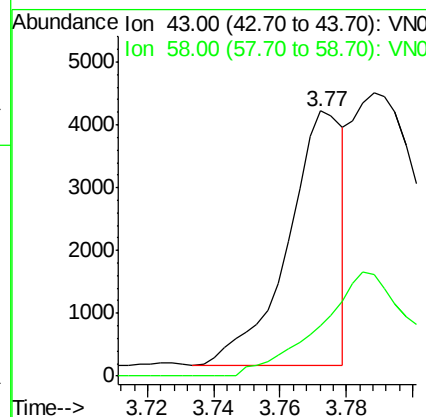
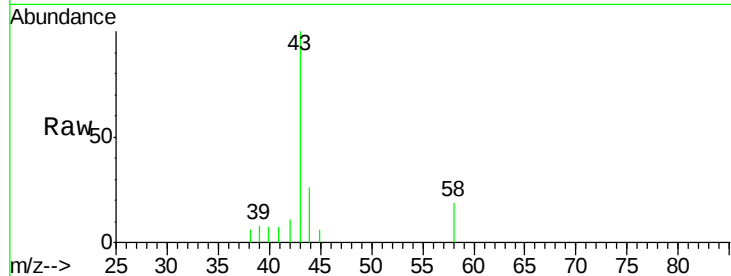




#16
Acetone
Concen: 3.185 ug/l
RT: 3.77 min Scan# 632
Delta R.T. -0.00 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

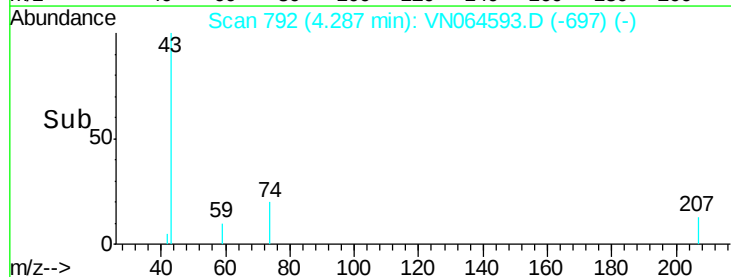
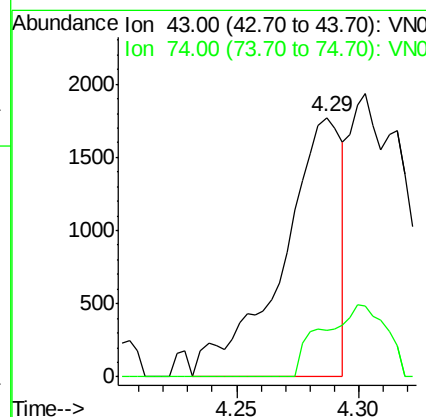
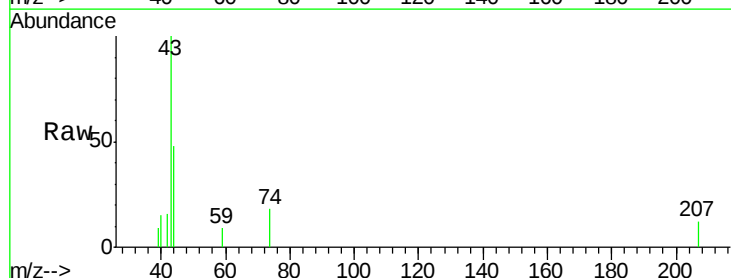
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-4-BOTTOM

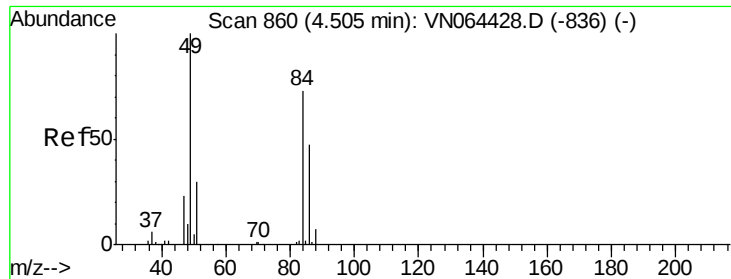
Tot Ion: 43 Resp: 4704
Ion Ratio Lower Upper
43 100
58 20.0 21.4 32.0#



#18
Methyl Acetate
Concen: 1.034 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

Tgt Ion: 43 Resp: 3003
Ion Ratio Lower Upper
43 100
74 29.3 17.0 25.4#

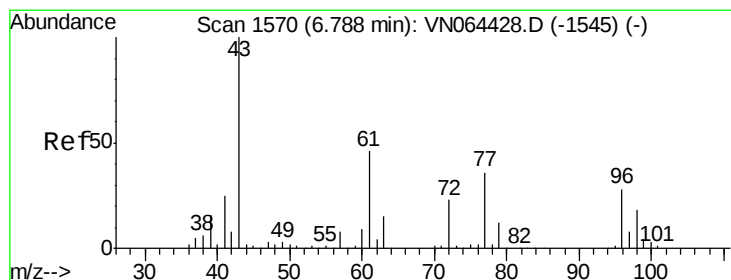
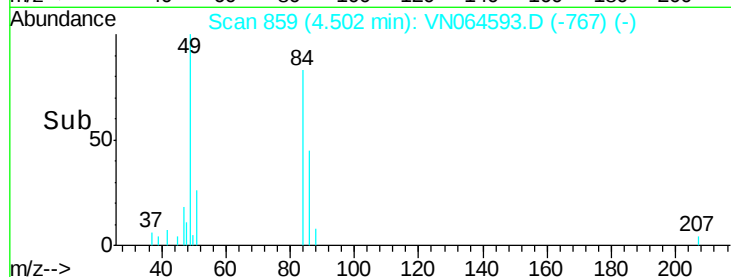
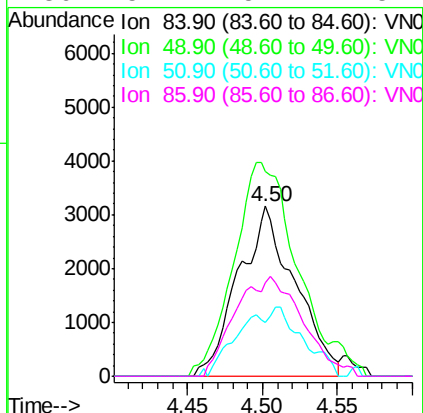
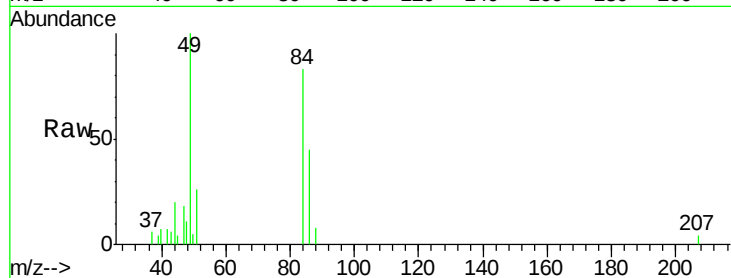




#20
Methvlene Chloride
Concen: 2.828 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

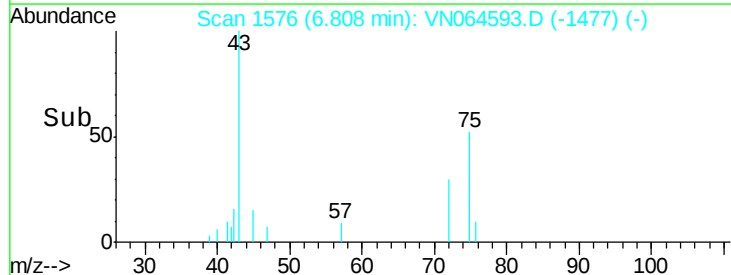
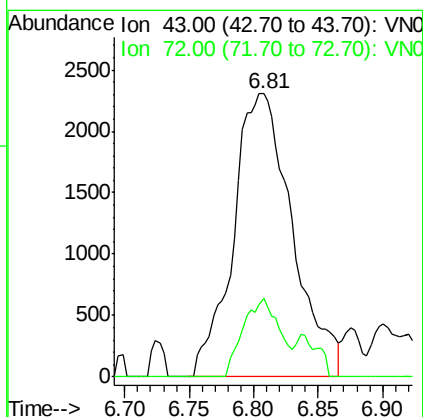
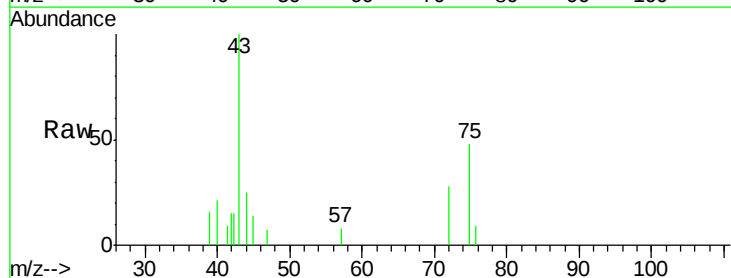
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-4-BOTTOM

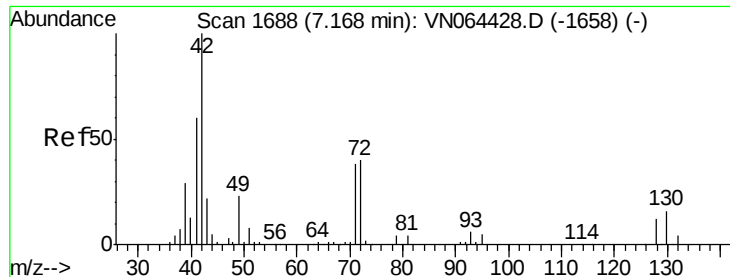
Tot Ion: 84 Resp: 8287
Ion Ratio Lower Upper
84 100
49 120.8 110.1 165.1
51 31.6 33.6 50.4#
86 54.7 52.1 78.1



#25
2-Butanone
Concen: 3.911 ug/l
RT: 6.81 min Scan# 1576
Delta R.T. 0.02 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

Tgt Ion: 43 Resp: 7360
Ion Ratio Lower Upper
43 100
72 27.6 18.5 27.7





#29

Tetrahydrofuran

Concen: 0.492 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN064593.D

Acq: 12 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-4-BOTTOM

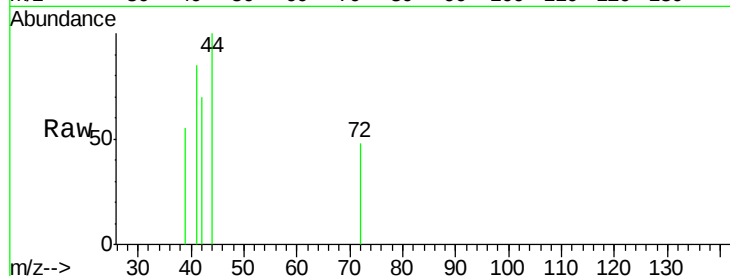
Tot Ion: 42 Resp: 568

Ion Ratio Lower Upper

42 100

72 52.5 31.7 47.5#

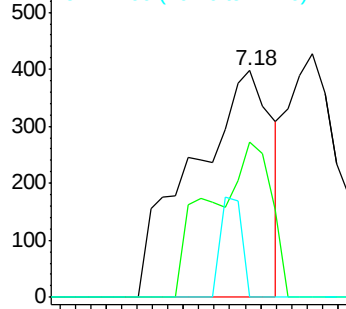
71 11.8 29.8 44.6#



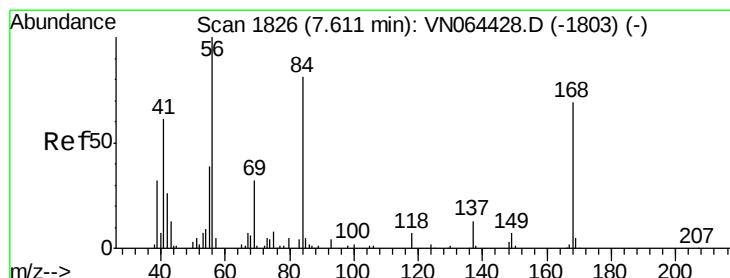
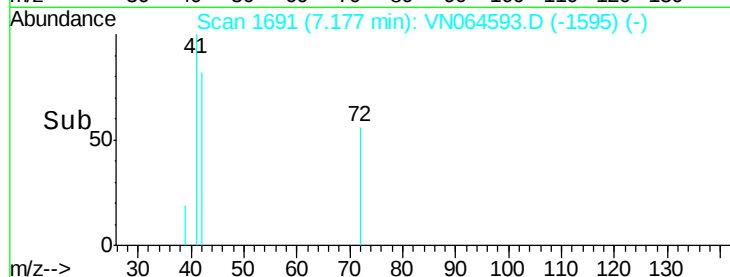
Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



Time-->



#31

Cyclohexane

Concen: 1.384 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.02 min

Lab File: VN064593.D

Acq: 12 Nov 2020 20:04

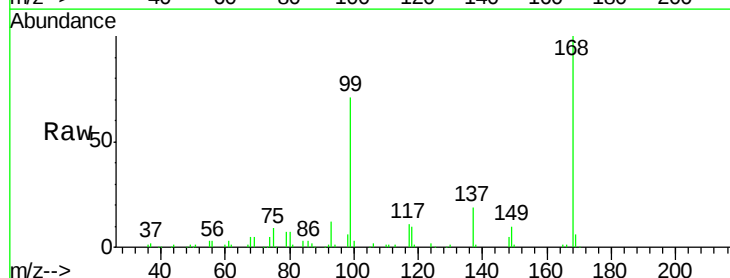
Tgt Ion: 56 Resp: 6521

Ion Ratio Lower Upper

56 100

69 158.0 25.6 38.4#

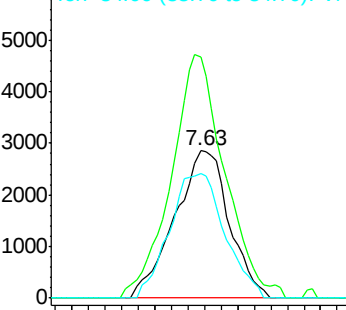
84 84.2 63.0 94.6



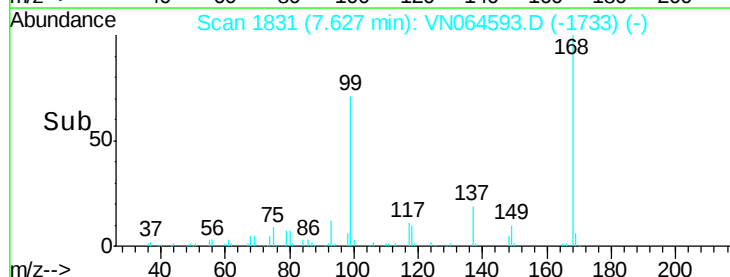
Abundance Ion 56.00 (55.70 to 56.70): VN0

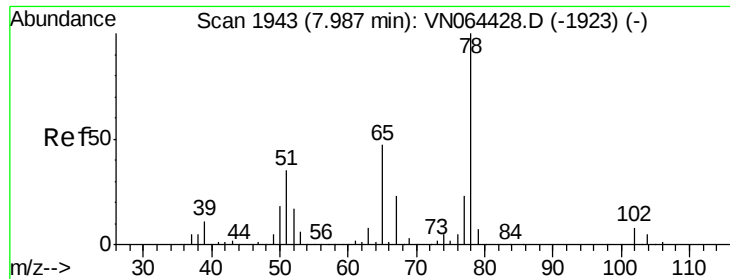
Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



Time-->





#33

1,2-Dichloroethane-d4

Concen: 58.617 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN064593.D

Acq: 12 Nov 2020 20:04

Instrument :

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ClientSampleId :

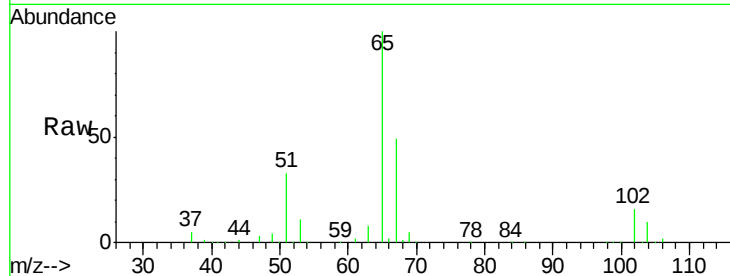
TRANSFORMER-5-4-BOTTOM

Tot Ion: 65 Resp: 227274

Ion Ratio Lower Upper

65 100

67 49.1 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN064428.D (-1923) (-)

Ion 66.90 (66.60 to 67.60): VN064428.D (-1923) (-)

7.99

100000

80000

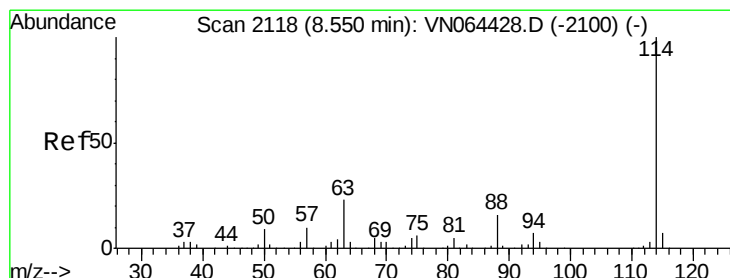
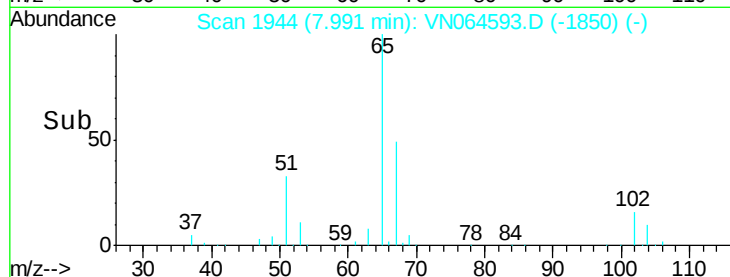
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064593.D

Acq: 12 Nov 2020 20:04

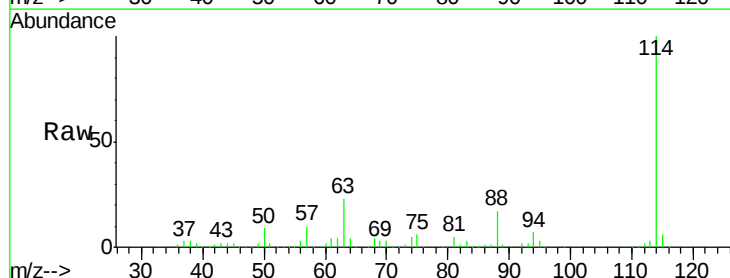
Tgt Ion: 114 Resp: 481584

Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.6

88 16.6 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): VN064428.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN064428.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN064428.D (-2100) (-)

8.55

300000

250000

200000

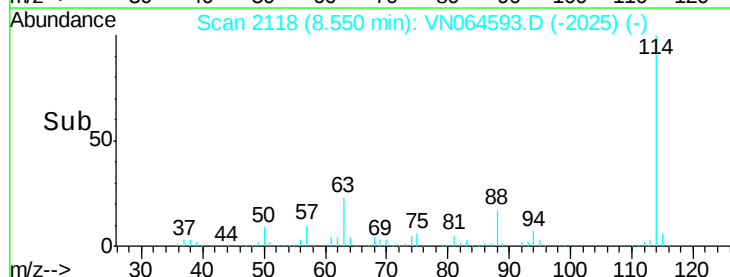
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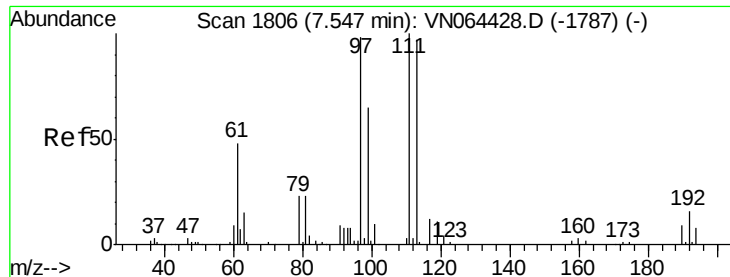
100000

50000

0

Time-->

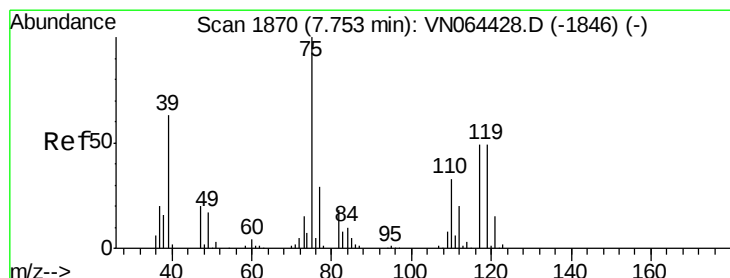
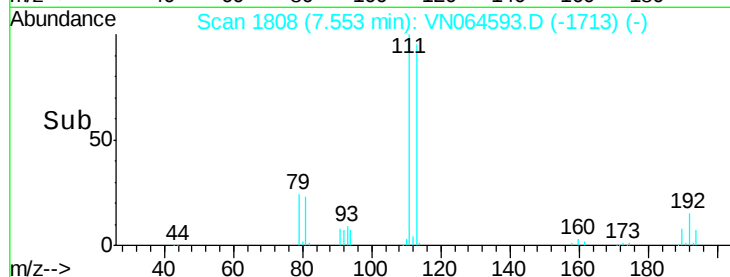
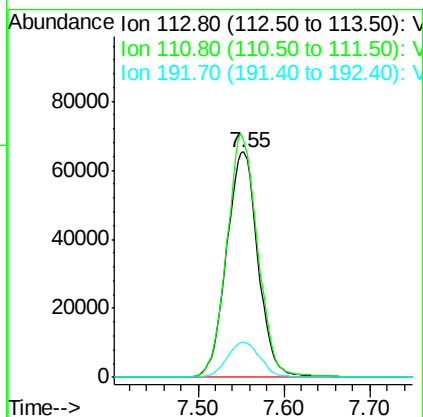
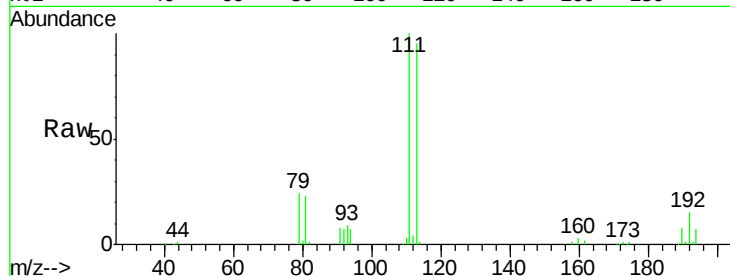




#35
 Dibromofluoromethane
 Concen: 50.614 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN064593.D
 Acq: 12 Nov 2020 20:04

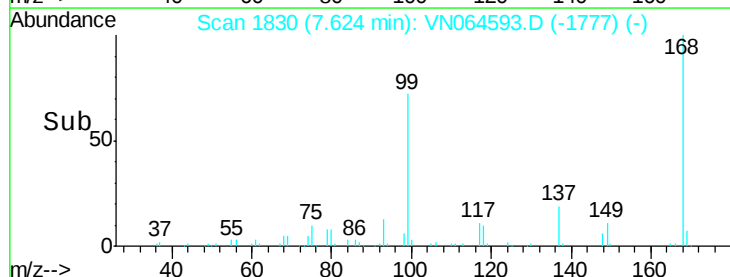
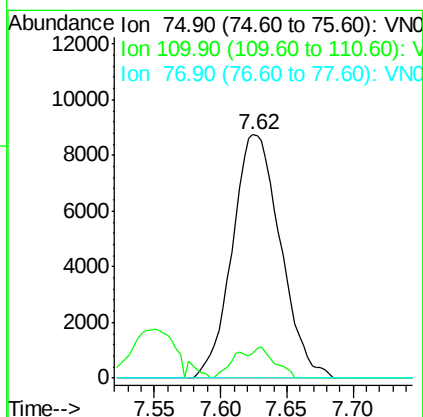
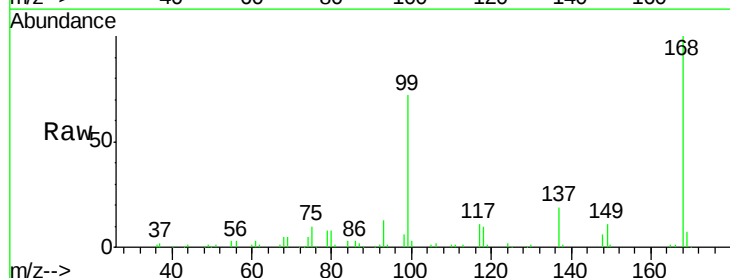
Instrument :
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 TRANSFORMER-5-4-BOTTOM

Tot Ion:113 Resp: 165960
 Ion Ratio Lower Upper
 113 100
 111 106.2 81.1 121.7
 192 16.4 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.343 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064593.D
 Acq: 12 Nov 2020 20:04

Tgt Ion: 75 Resp: 22096
 Ion Ratio Lower Upper
 75 100
 110 5.9 16.0 48.0#
 77 0.0 24.0 36.0#

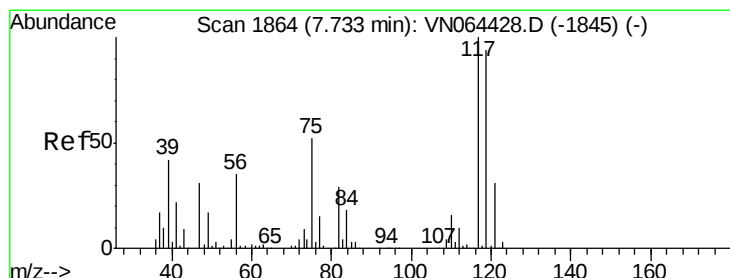
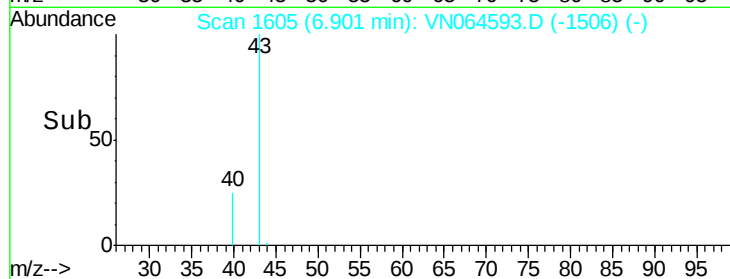
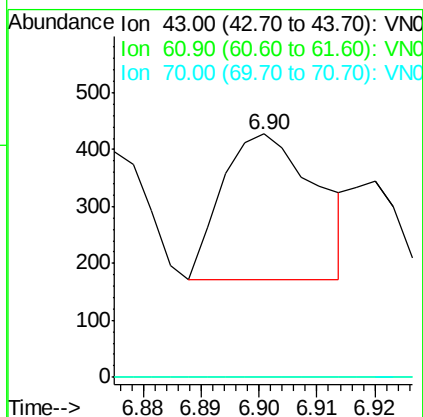
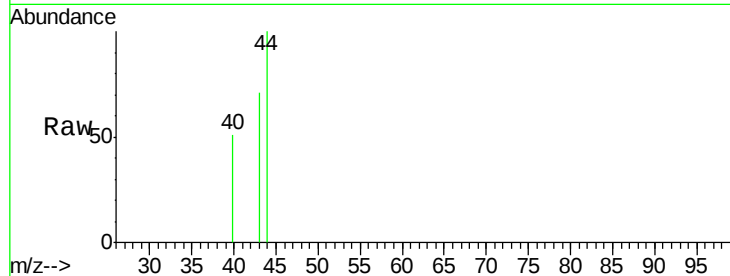




#37
Ethyl Acetate
Concen: 0.818 ug/l
RT: 6.90 min Scan# 1605
Delta R.T. 0.02 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

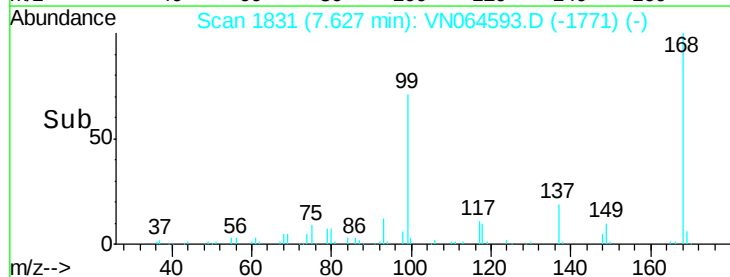
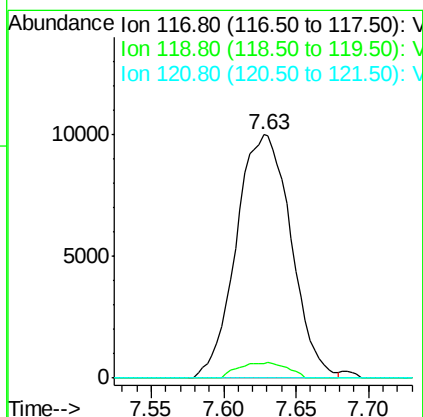
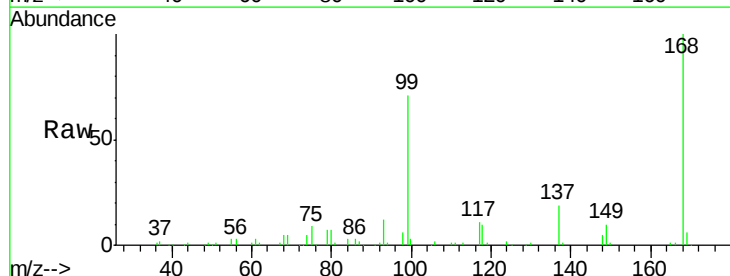
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-4-BOTTOM

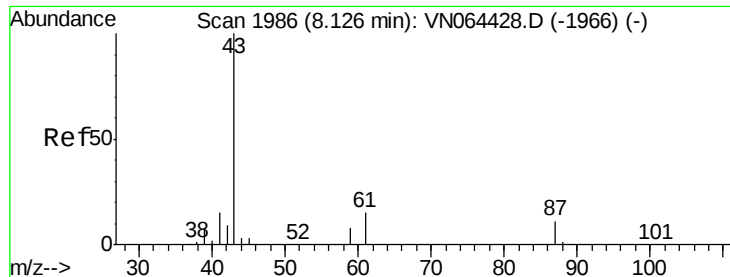
Tot Ion: 43 Resp: 290
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 4.805 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

Tgt Ion: 117 Resp: 26124
Ion Ratio Lower Upper
117 100
119 6.2 75.5 113.3#
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 11.611 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064593.D

Acq: 12 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-4-BOTTOM

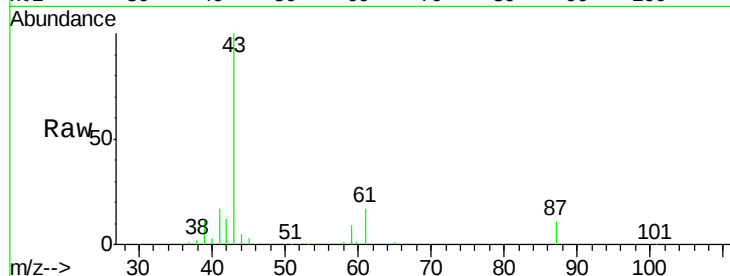
Tot Ion: 43 Resp: 95734

Ion Ratio Lower Upper

43 100

61 17.1 14.0 21.0

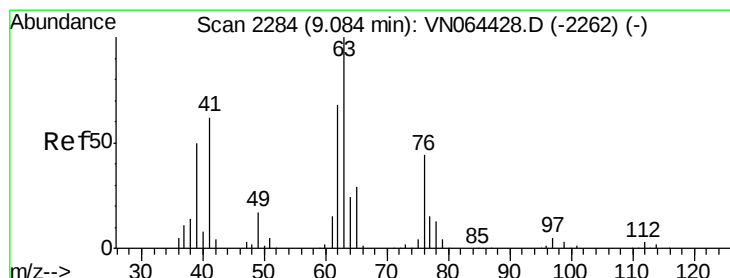
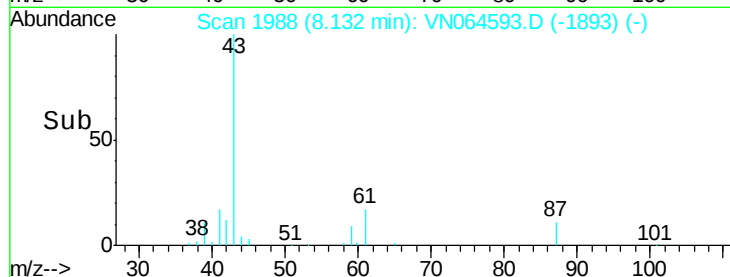
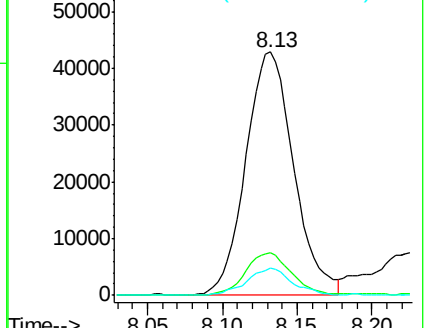
87 10.5 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): VN064428.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN064428.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN064428.D (-1966) (-)



#45

1,2-Dichloropropane

Concen: 0.511 ug/l

RT: 9.24 min Scan# 2333

Delta R.T. 0.16 min

Lab File: VN064593.D

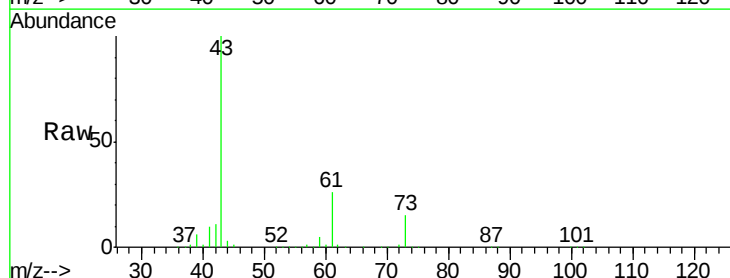
Acq: 12 Nov 2020 20:04

Tgt Ion: 63 Resp: 2038

Ion Ratio Lower Upper

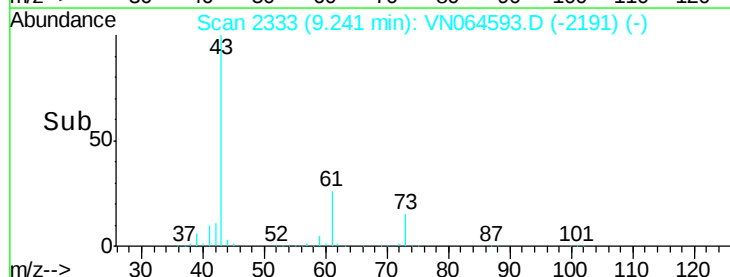
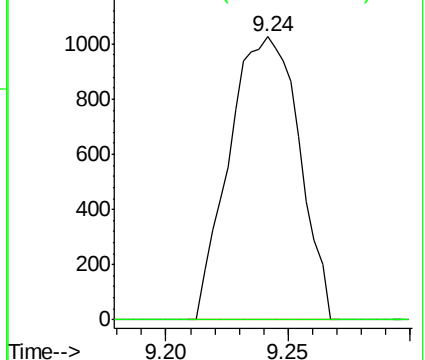
63 100

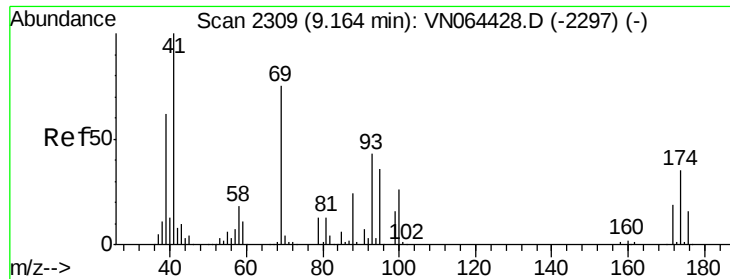
65 0.0 23.6 35.4#



Abundance Ion 62.90 (62.60 to 63.60): VN064428.D (-2262) (-)

Ion 64.90 (64.60 to 65.60): VN064428.D (-2262) (-)

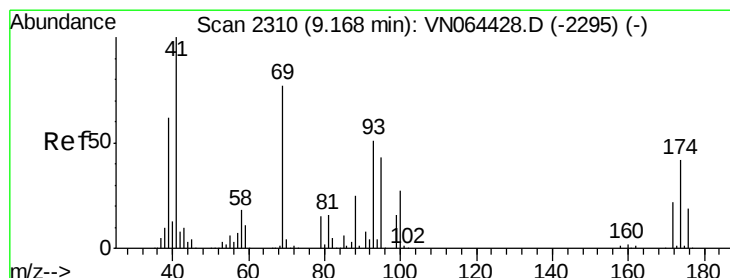
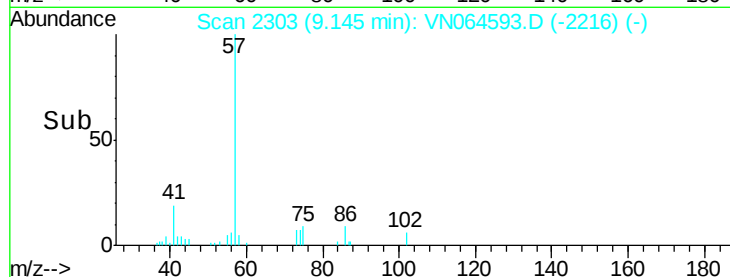
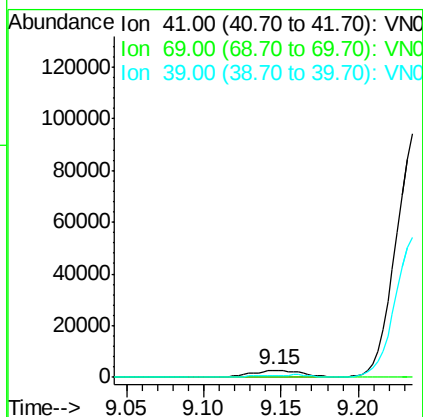
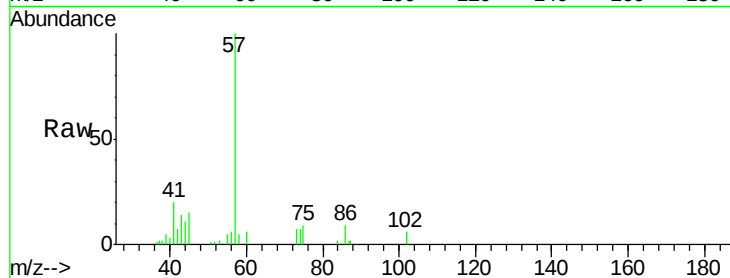




#48
Methyl methacrylate
Concen: 1.527 ug/l
RT: 9.15 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

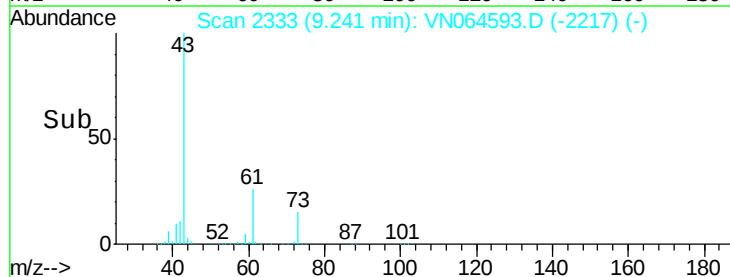
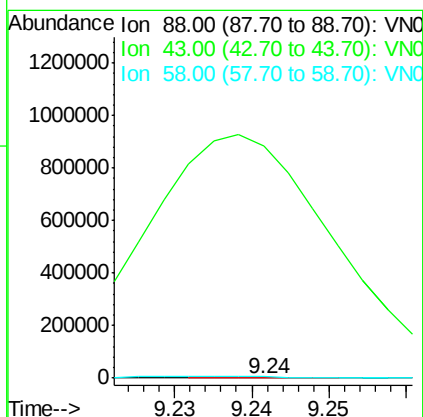
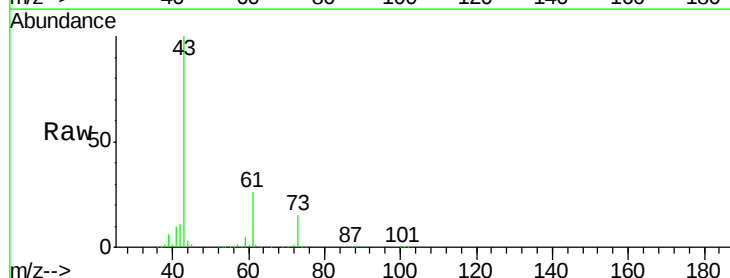
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-4-BOTTOM

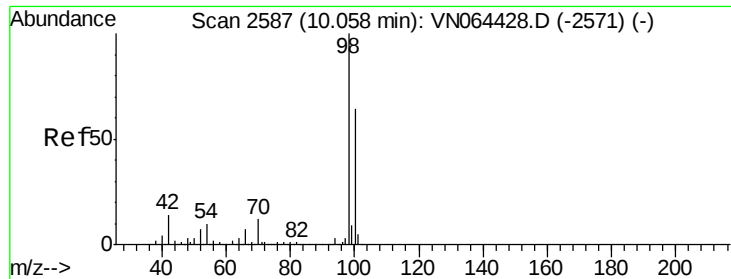
Tot Ion: 41 Resp: 6351
Ion Ratio Lower Upper
41 100
69 0.0 60.4 90.6#
39 0.0 51.2 76.8#



#49
1,4-Dioxane
Concen: 2.263 ug/l
RT: 9.24 min Scan# 2333
Delta R.T. 0.07 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

Tgt Ion: 88 Resp: 124
Ion Ratio Lower Upper
88 100
43 1362105.6 31.0 46.6#
58 8315.3 58.4 87.6#

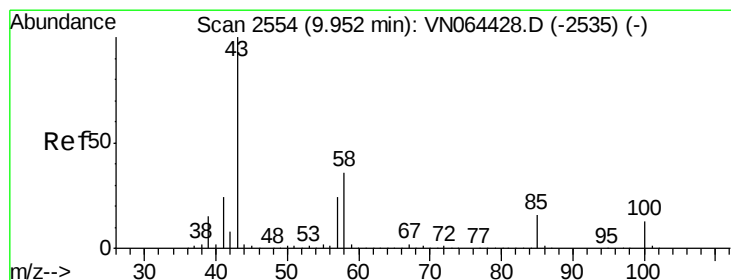
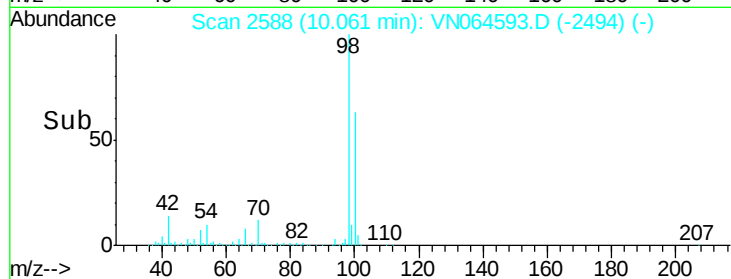
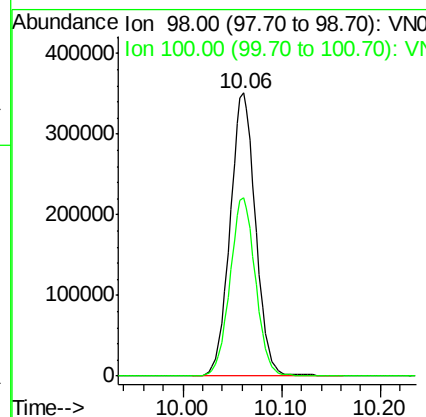
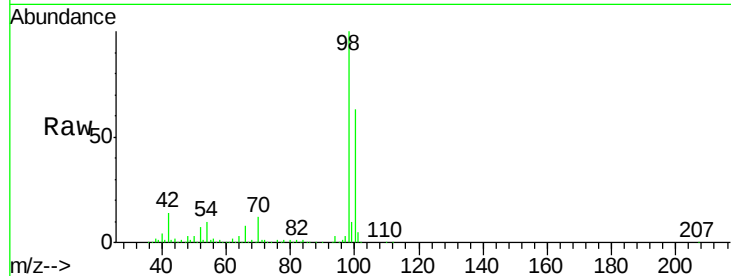




#50
Toluene-d8
Concen: 50.142 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

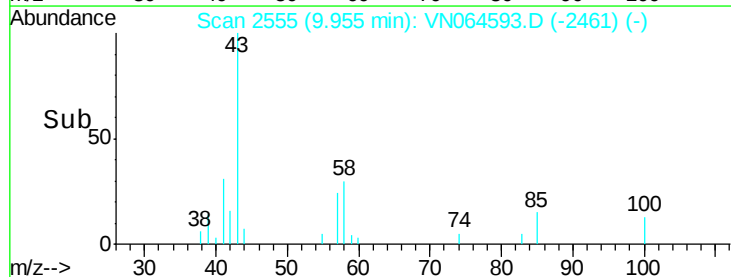
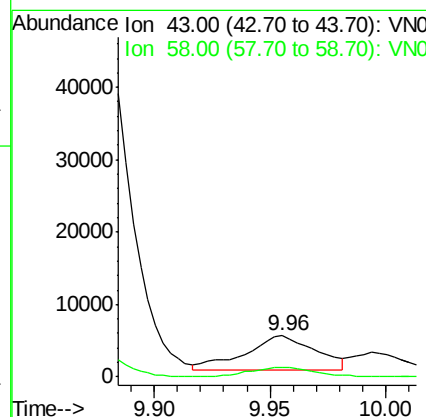
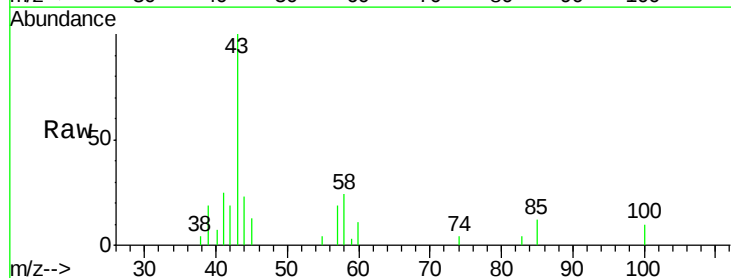
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-4-BOTTOM

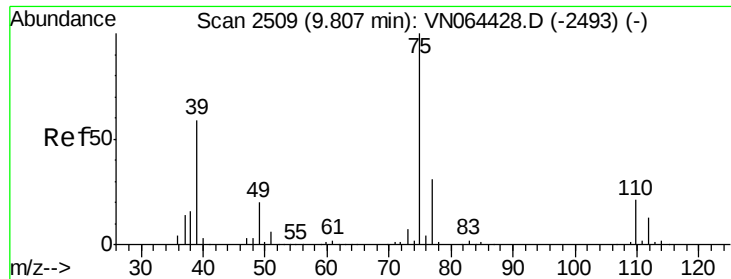
Tot Ion: 98 Resp: 635452
Ion Ratio Lower Upper
98 100
100 63.0 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 2.052 ug/l
RT: 9.96 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

Tgt Ion: 43 Resp: 9868
Ion Ratio Lower Upper
43 100
58 25.6 28.4 42.6#



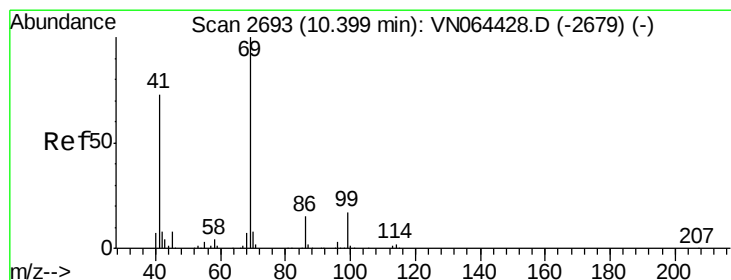
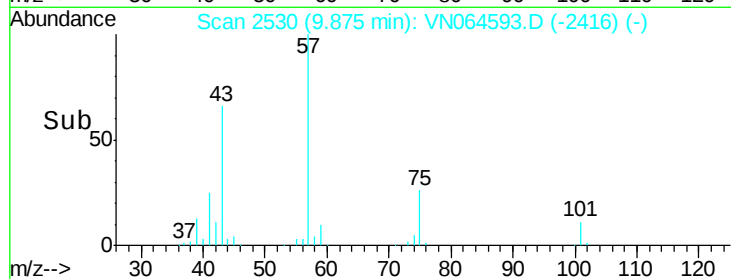
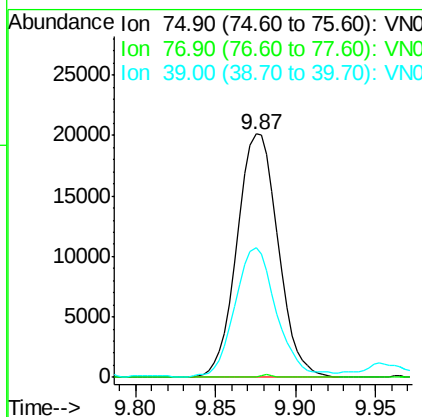
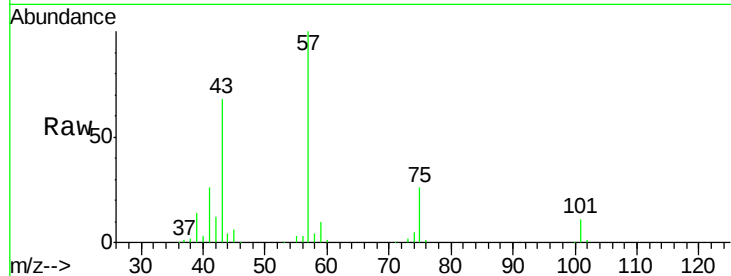


#54

cis-1,3-Dichloropropene
 Concen: 5.508 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064593.D
 Acq: 12 Nov 2020 20:04

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-5-4-BOTTOM

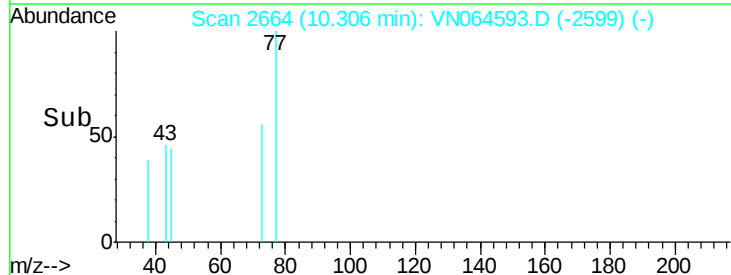
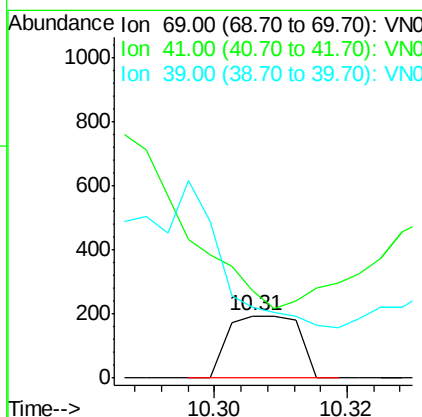
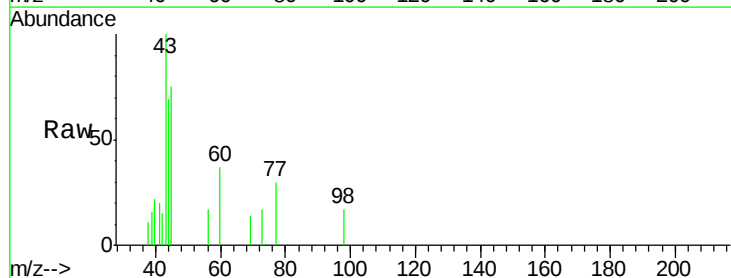
Tot Ion: 75 Resp: 35249
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.9 37.3#
 39 53.5 47.1 70.7

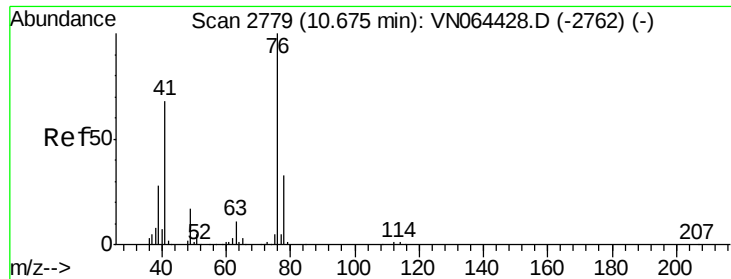


#56

Ethyl methacrylate
 Concen: 1.865 ug/l
 RT: 10.31 min Scan# 2664
 Delta R.T. -0.09 min
 Lab File: VN064593.D
 Acq: 12 Nov 2020 20:04

Tgt Ion: 69 Resp: 143
 Ion Ratio Lower Upper
 69 100
 41 0.0 59.3 88.9#
 39 0.0 35.4 53.0#

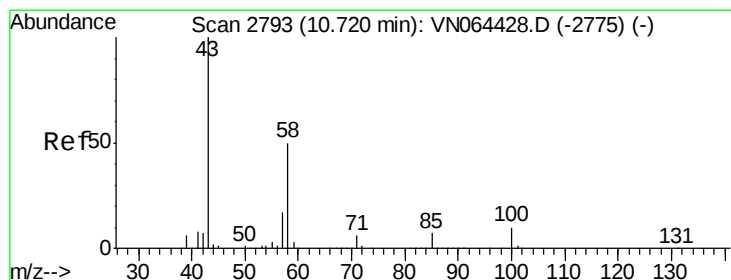
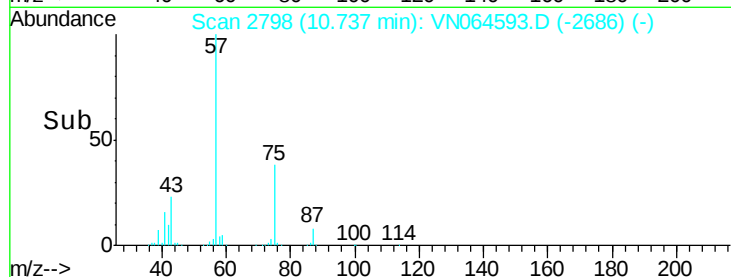
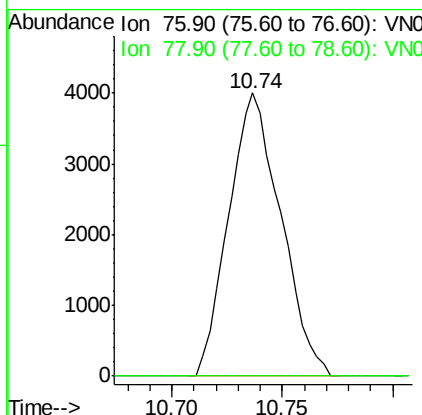
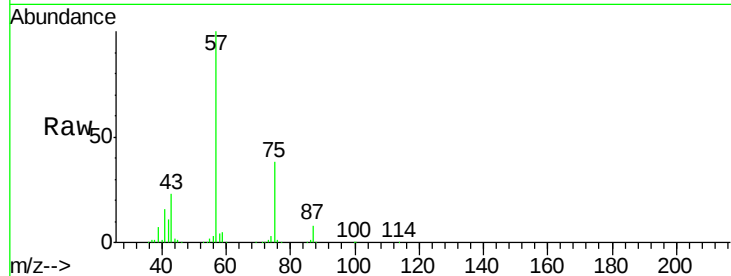




#57
 1,3-Dichloropropane
 Concen: 1.054 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN064593.D
 Acq: 12 Nov 2020 20:04

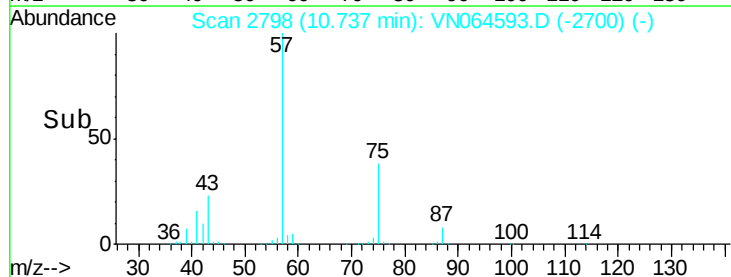
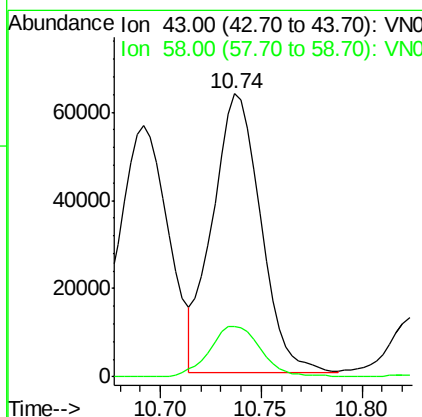
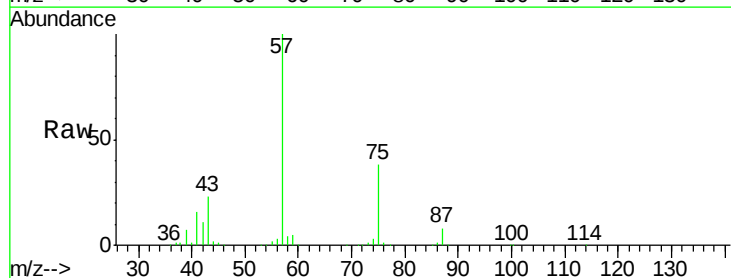
Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-5-4-BOTTOM

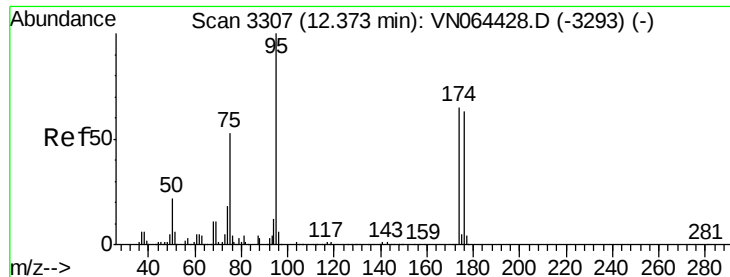
Tot Ion: 76 Resp: 6541
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 30.385 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064593.D
 Acq: 12 Nov 2020 20:04

Tgt Ion: 43 Resp: 105032
 Ion Ratio Lower Upper
 43 100
 58 19.6 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 48.383 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064593.D

Acq: 12 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-4-BOTTOM

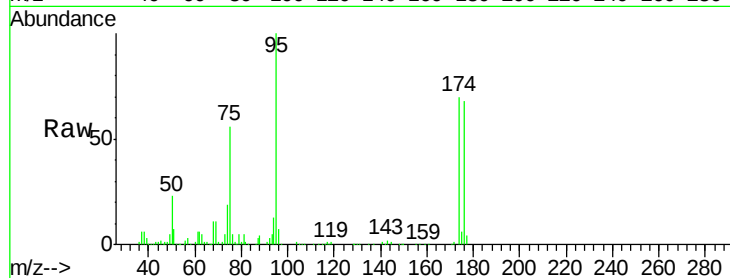
Tot Ion: 95 Resp: 231892

Ion Ratio Lower Upper

95 100

174 68.6 0.0 132.6

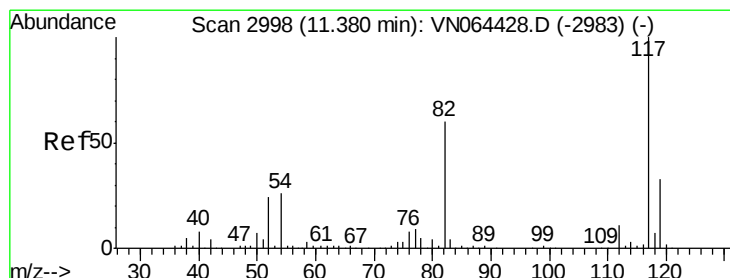
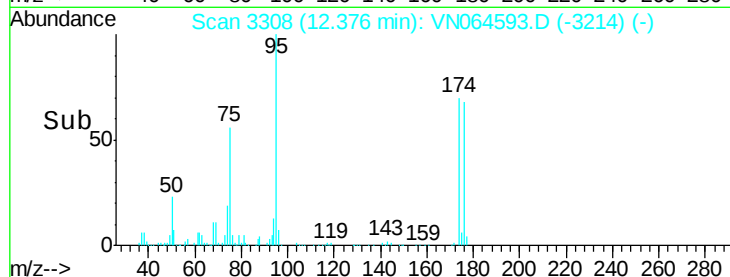
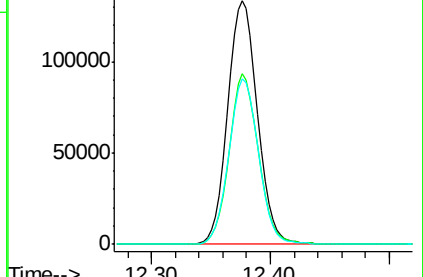
176 67.7 0.0 129.2



Abundance Ion 94.90 (94.60 to 95.60): VN064428.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN064428.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064428.D (-3293) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064593.D

Acq: 12 Nov 2020 20:04

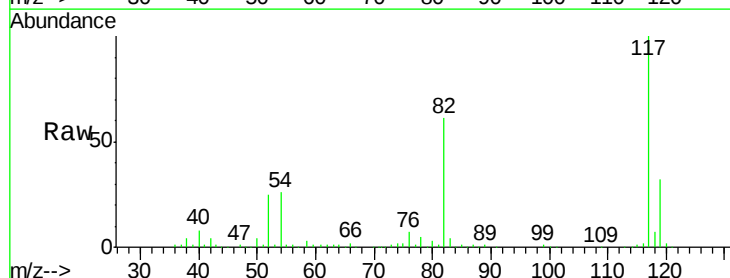
Tgt Ion: 117 Resp: 516507

Ion Ratio Lower Upper

117 100

82 61.1 48.1 72.1

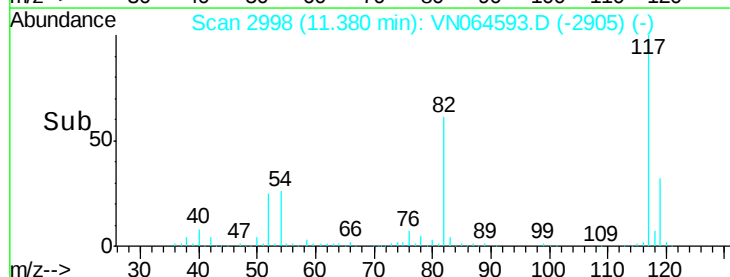
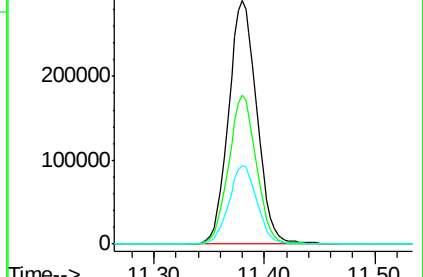
119 32.4 26.2 39.4

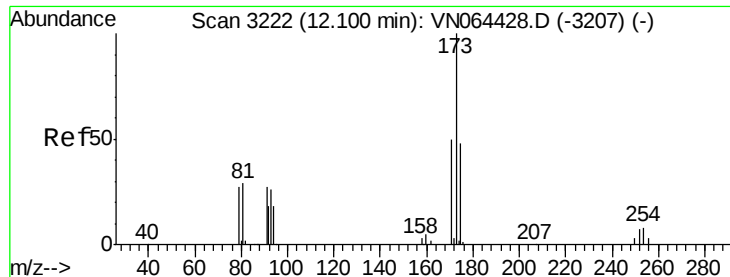


Abundance Ion 116.90 (116.60 to 117.60): VN064428.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN064428.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064428.D (-2983) (-)





#71

Bromoform

Concen: 1.437 ug/l

RT: 12.37 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN064593.D

Acq: 12 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-4-BOTTOM

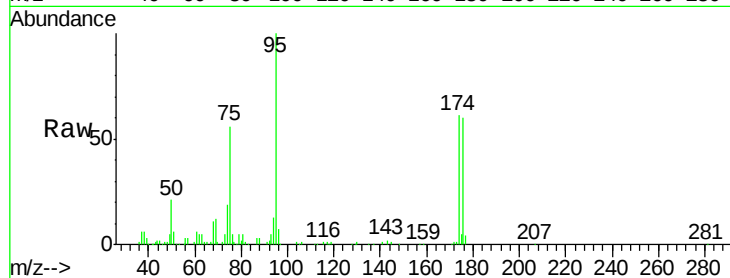
Tot Ion:173 Resp: 528

Ion Ratio Lower Upper

173 100

175 1956.4 23.7 71.1#

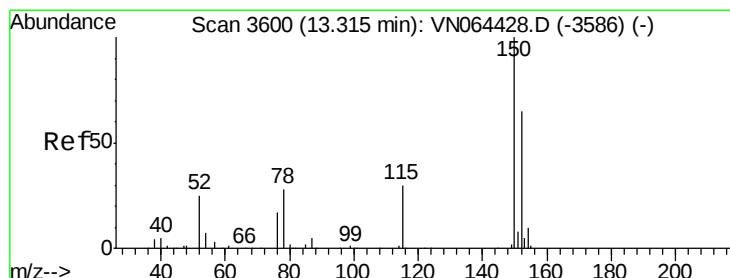
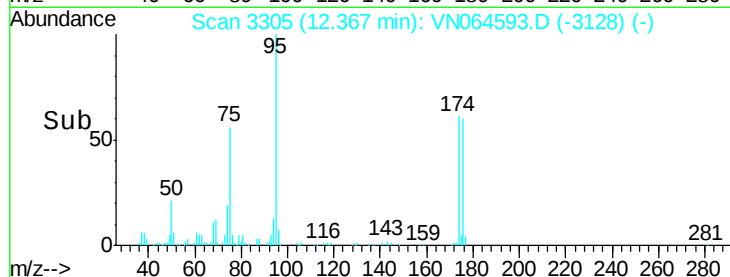
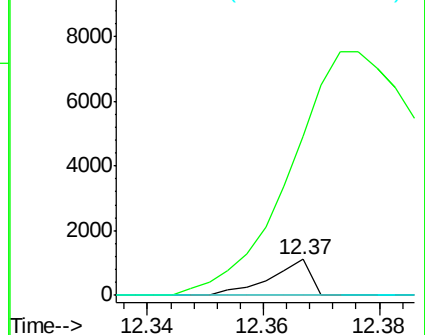
254 0.0 0.0 0.0



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# 3601

Delta R.T. 0.00 min

Lab File: VN064593.D

Acq: 12 Nov 2020 20:04

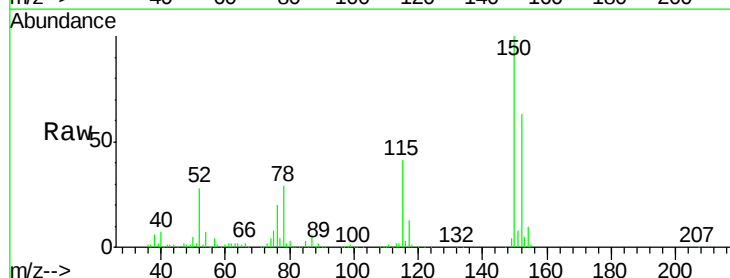
Tgt Ion:152 Resp: 183302

Ion Ratio Lower Upper

152 100

115 66.0 32.0 96.0

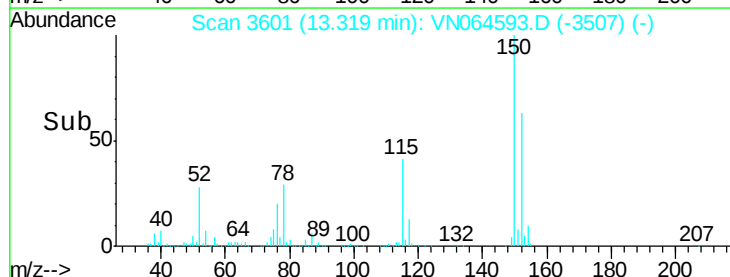
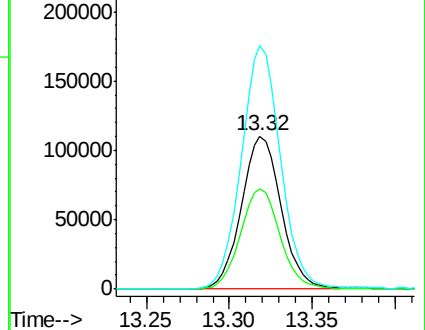
150 158.3 0.0 353.8

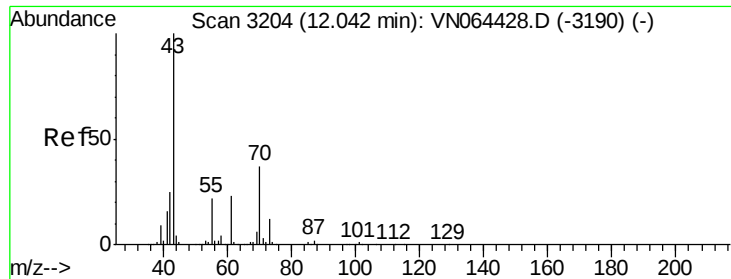


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

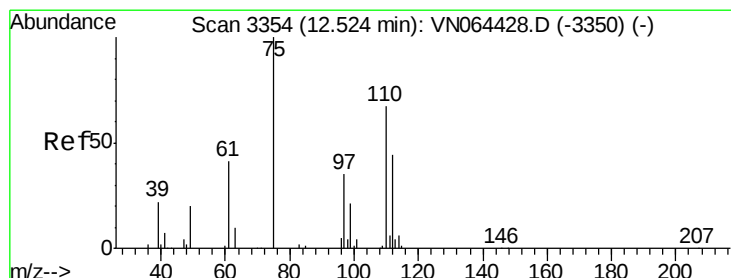
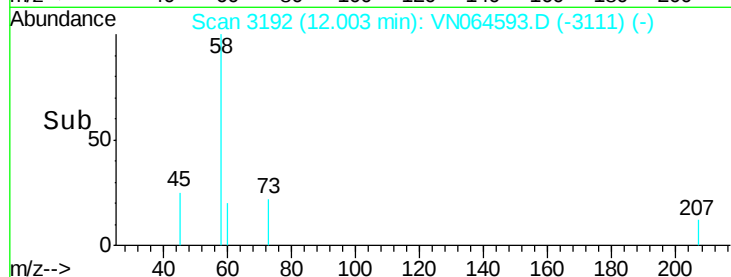
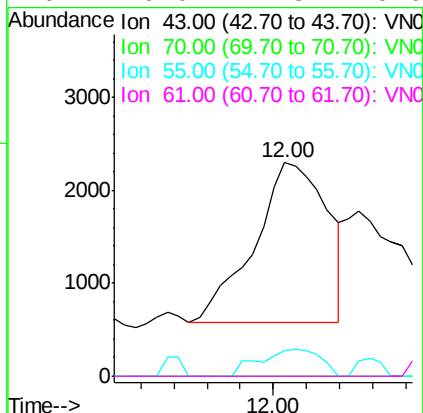
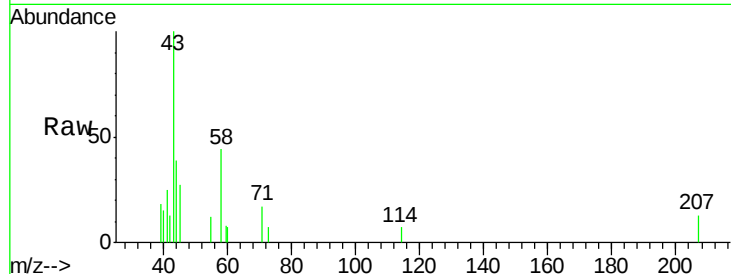




#74
N-amyl acetate
Concen: 1.581 ug/l
RT: 12.00 min Scan# 3192
Delta R.T. -0.04 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

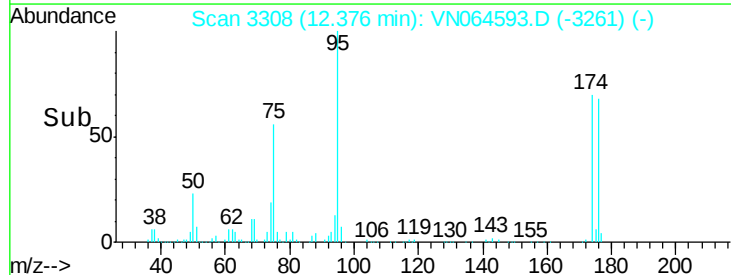
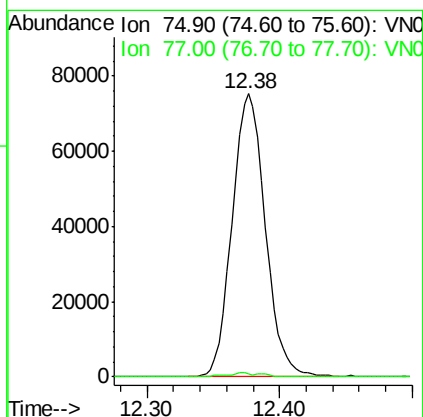
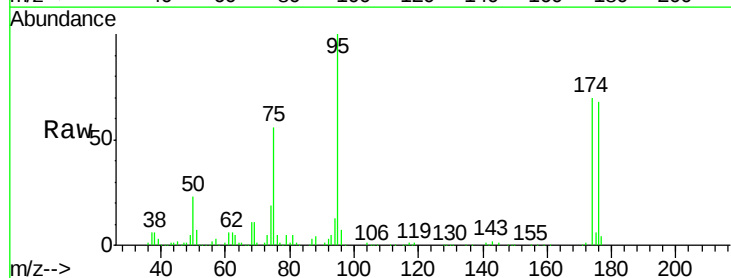
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-4-BOTTOM

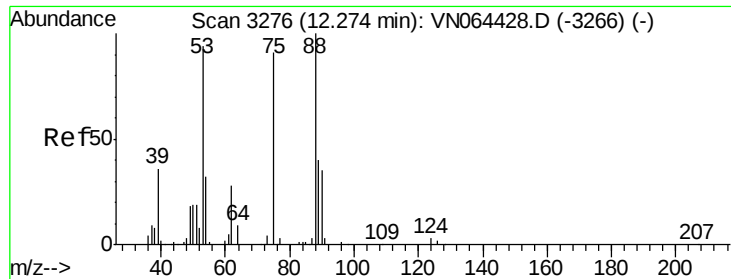
Tot Ion:	43	Resp:	2654
Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.6	44.4#
55	14.0	18.4	27.6#
61	0.0	17.8	26.6#



#76
1,2,3-Trichloropropane
Concen: 29.460 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064593.D
Acq: 12 Nov 2020 20:04

Tgt Ion:	75	Resp:	130841
Ion	Ratio	Lower	Upper
75	100		
77	1.0	0.0	0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 82.257 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064593.D

Acq: 12 Nov 2020 20:04

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-4-BOTTOM

Tot Ion: 75 Resp: 130841

Ion Ratio Lower Upper

75 100

53 0.3 84.0 126.0#

89 0.0 36.3 54.5#

