

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064583.D
 Acq On : 12 Nov 2020 16:00
 Operator : JC/MD
 Sample : L4701-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-1-3-BOTTOM

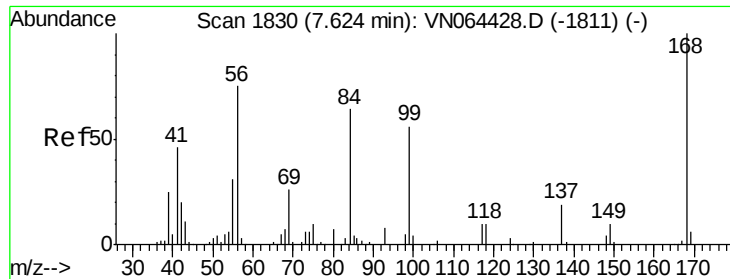
Quant Time: Nov 13 02:51:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	223976	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	492468	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	528334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	188235	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	232963	59.71	ug/l	0.00
Spiked Amount			Recovery	=	119.42%	
35) Dibromofluoromethane	7.55	113	170532	50.86	ug/l	0.00
Spiked Amount			Recovery	=	101.72%	
50) Toluene-d8	10.06	98	637634	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
62) 4-Bromofluorobenzene	12.38	95	240455	49.06	ug/l	0.00
Spiked Amount			Recovery	=	98.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	437	1.016	ug/l #	71
13) Acrolein	3.60	56	108	0.405	ug/l #	52
16) Acetone	3.79	43	14948	10.059	ug/l	93
18) Methyl Acetate	4.28	43	2679	0.917	ug/l	91
20) Methylene Chloride	4.51	84	10713	3.633	ug/l #	86
25) 2-Butanone	6.81	43	7482	3.951	ug/l #	79
31) Cyclohexane	7.62	56	2812	0.593	ug/l #	2
36) 1,1-Dichloropropene	7.63	75	23014	4.424	ug/l #	50
37) Ethyl Acetate	6.89	43	339	0.826	ug/l #	71
38) Carbon Tetrachloride	7.63	117	26241	4.719	ug/l #	17
43) Isopropyl Acetate	8.13	43	91393	10.840	ug/l	98
48) Methyl methacrylate	9.15	41	5422	1.274	ug/l #	15
49) 1,4-Dioxane	9.21	88	69	1.231	ug/l #	21
51) 4-Methyl-2-Pentanone	9.96	43	8741	1.778	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	35285	5.391	ug/l #	73
56) Ethyl methacrylate	10.35	69	130	1.862	ug/l #	20
57) 1,3-Dichloropropane	10.74	76	6050	0.953	ug/l #	42
59) 2-Hexanone	10.74	43	99715	28.498	ug/l #	58
71) Bromoform	12.36	173	294	1.363	ug/l #	1
74) N-amyl acetate	12.01	43	3437	1.677	ug/l #	58
76) 1,2,3-Trichloropropane	12.38	75	130488	28.611	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	130488	79.885	ug/l #	8

(#) = 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

Lab File: VN064583.D

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Instrument :

MSVOA_N

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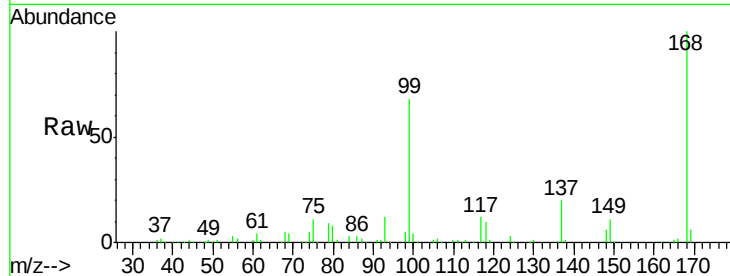
TRANSFORMER-1-3-BOTTOM

Tot Ion:168 Resp: 223976

Ion Ratio Lower Upper

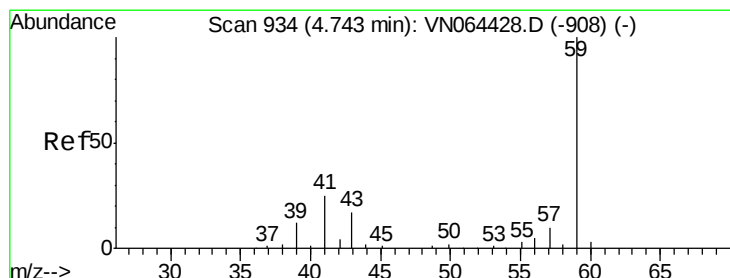
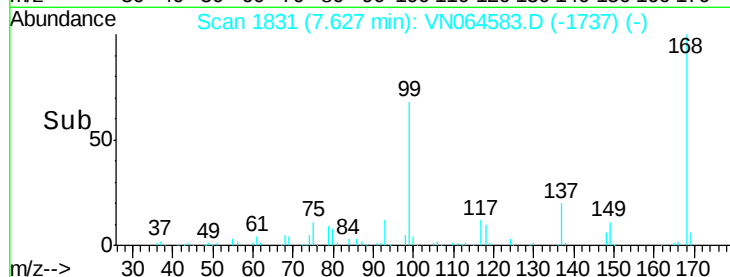
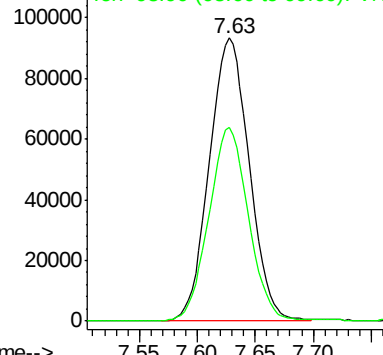
168 100

99 68.1 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: 1.016 ug/l

RT: 4.75 min Scan# 935

Delta R.T. 0.00 min

Lab File: VN064583.D

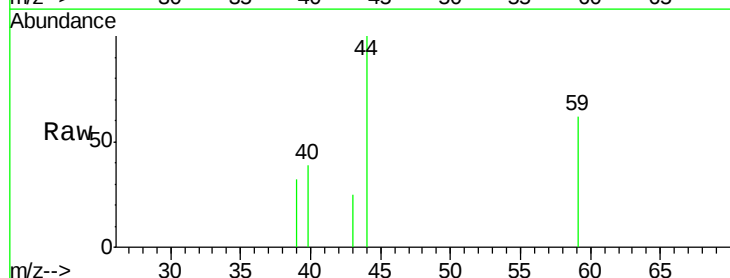
Acq: 12 Nov 2020 16:00

Tgt Ion: 59 Resp: 437

Ion Ratio Lower Upper

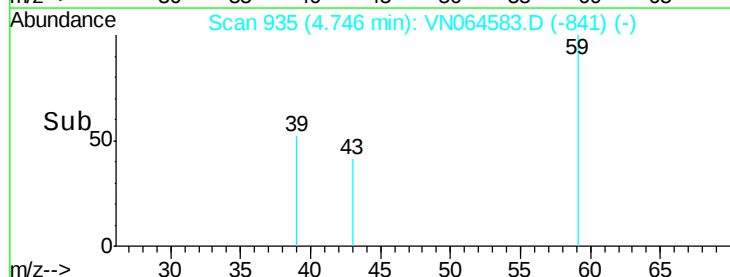
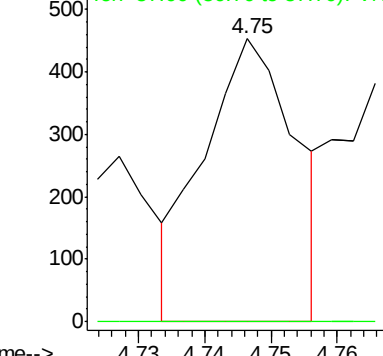
59 100

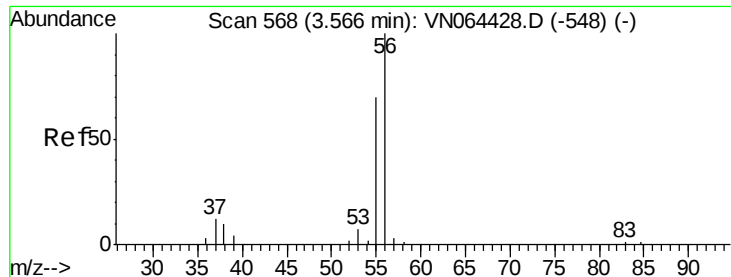
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 0.405 ug/l

RT: 3.60 min Scan# 579

Delta R.T. 0.04 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

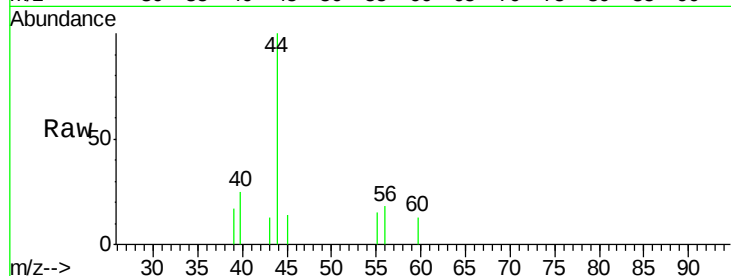
TRANSFORMER-1-3-BOTTOM

Tot Ion: 56 Resp: 108

Ion Ratio Lower Upper

56 100

55 109.3 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VN064428.D (-548) (-)

Ion 55.00 (54.70 to 55.70): VN064428.D (-548) (-)

3.60

250

200

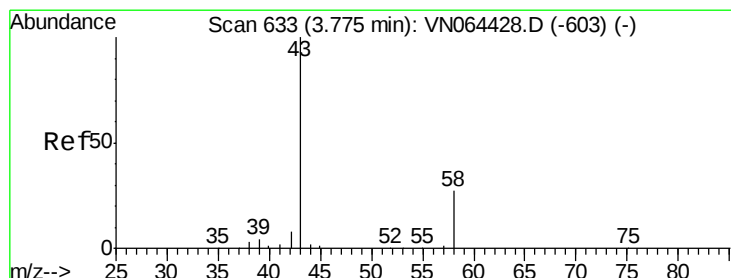
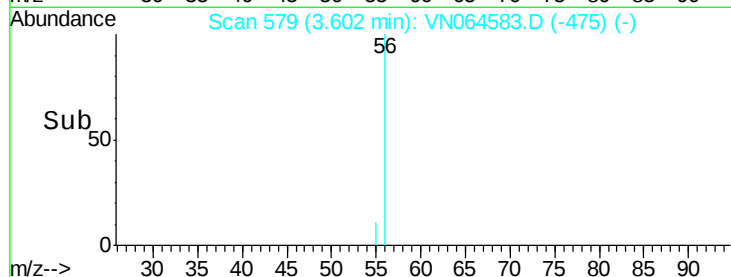
150

100

50

0

Time-->



#16

Acetone

Concen: 10.059 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN064583.D

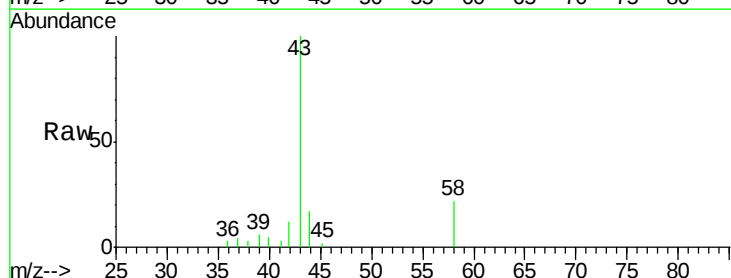
Acq: 12 Nov 2020 16:00

Tgt Ion: 43 Resp: 14948

Ion Ratio Lower Upper

43 100

58 23.3 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VN064428.D (-603) (-)

Ion 58.00 (57.70 to 58.70): VN064428.D (-603) (-)

3.79

8000

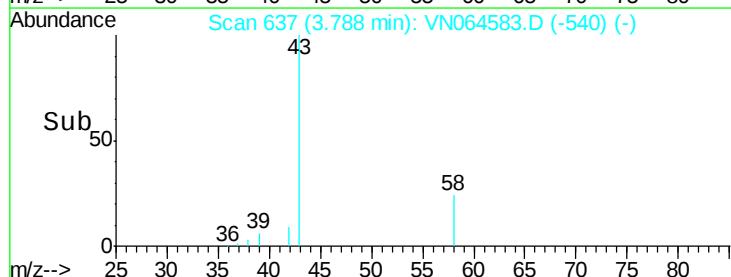
6000

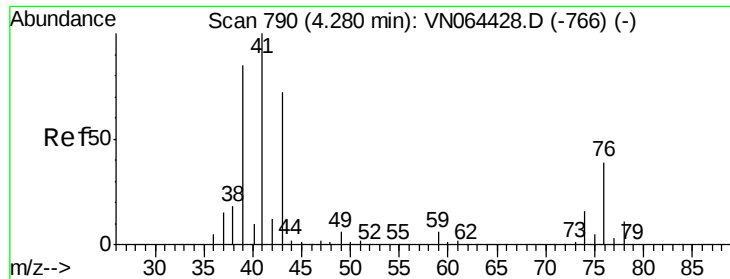
4000

2000

0

Time-->

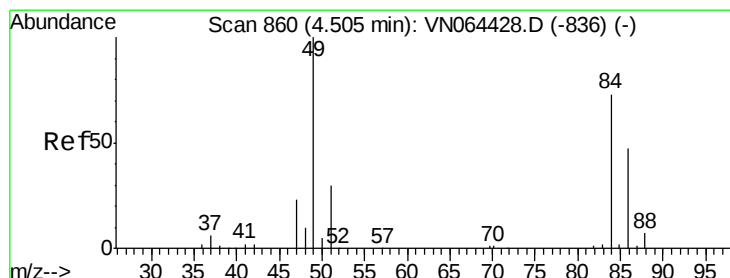
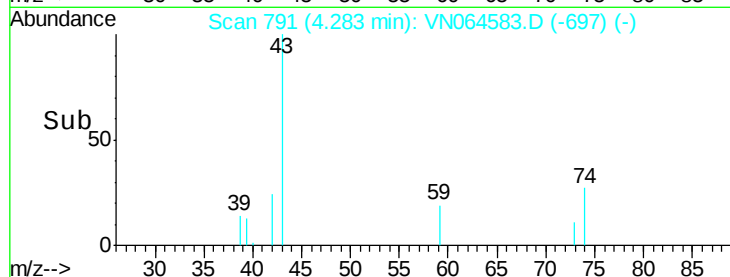
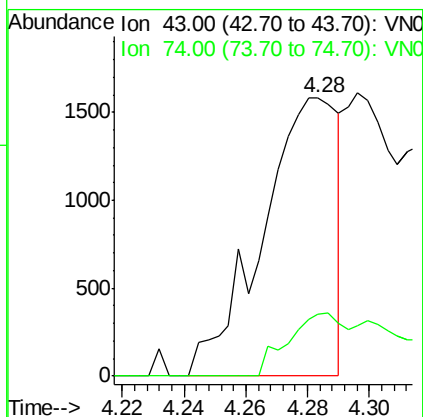
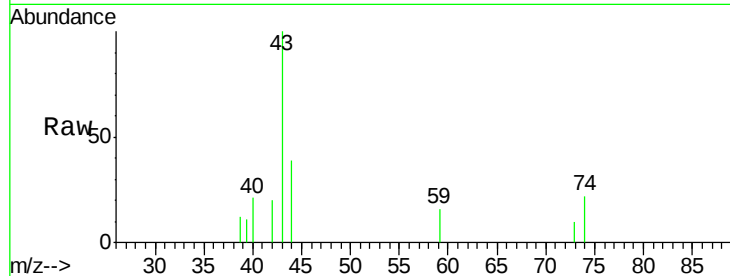




#18
Methyl Acetate
Concen: 0.917 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN064583.D
Acq: 12 Nov 2020 16:00

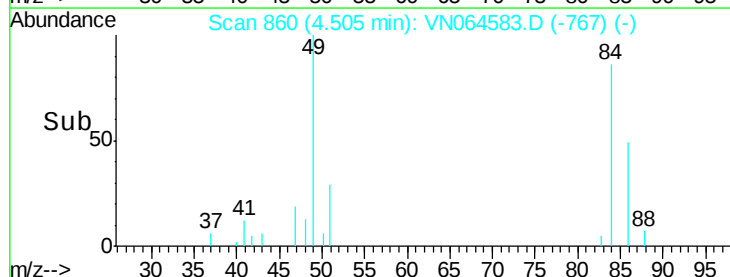
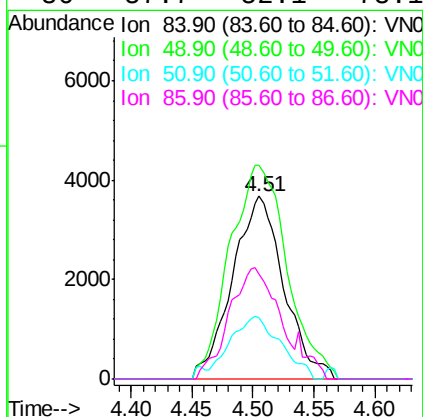
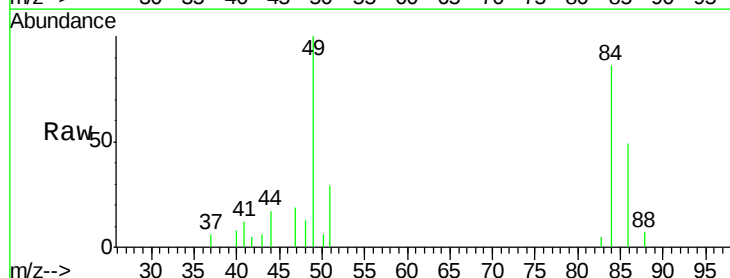
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-1-3-BOTTOM

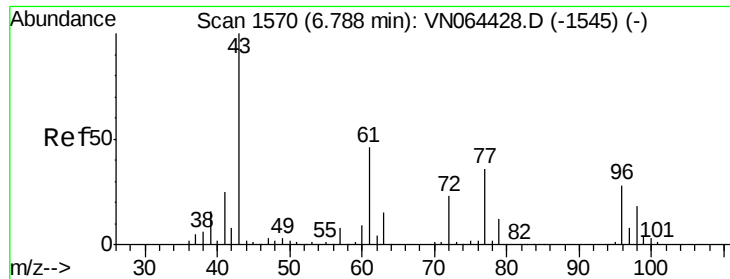
Tot Ion: 43 Resp: 2679
Ion Ratio Lower Upper
43 100
74 17.1 17.0 25.4



#20
Methylene Chloride
Concen: 3.633 ug/l
RT: 4.51 min Scan# 860
Delta R.T. -0.00 min
Lab File: VN064583.D
Acq: 12 Nov 2020 16:00

Tgt Ion: 84 Resp: 10713
Ion Ratio Lower Upper
84 100
49 116.8 110.1 165.1
51 33.5 33.6 50.4#
86 57.7 52.1 78.1





#25

2-Butanone

Concen: 3.951 ug/l

RT: 6.81 min Scan# 1576

Delta R.T. 0.02 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

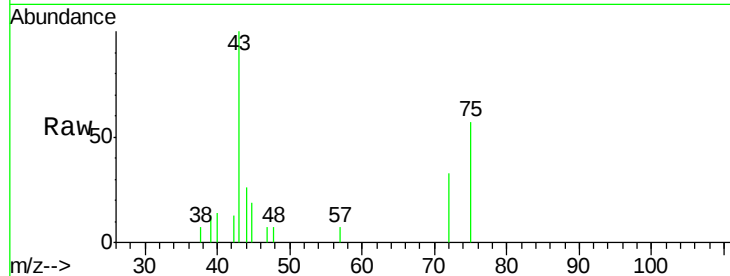
TRANSFORMER-1-3-BOTTOM

Tot Ion: 43 Resp: 7482

Ion Ratio Lower Upper

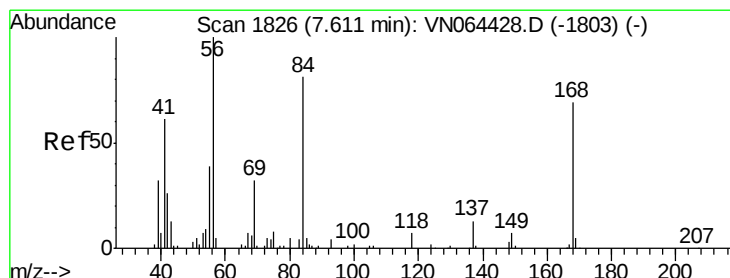
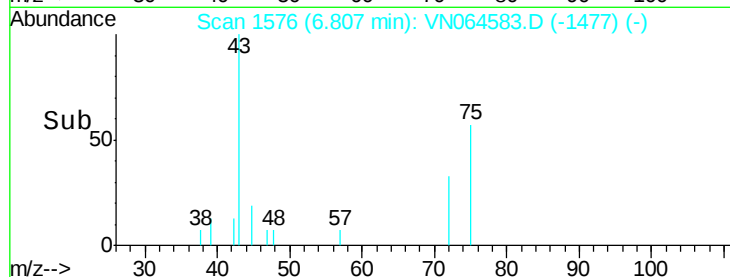
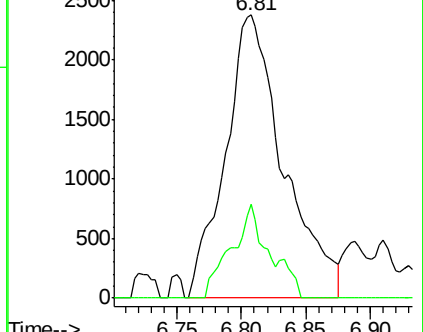
43 100

72 33.2 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 0.593 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

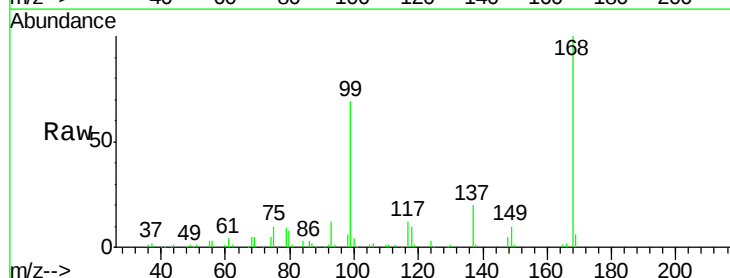
Tgt Ion: 56 Resp: 2812

Ion Ratio Lower Upper

56 100

69 173.8 25.6 38.4#

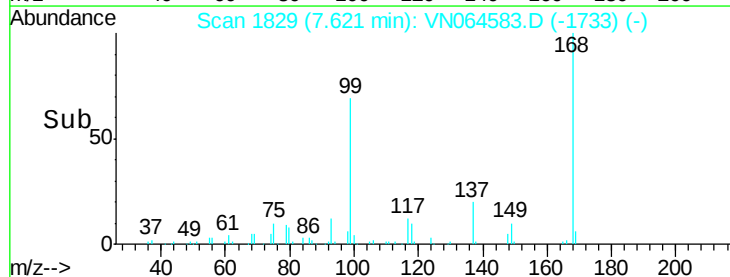
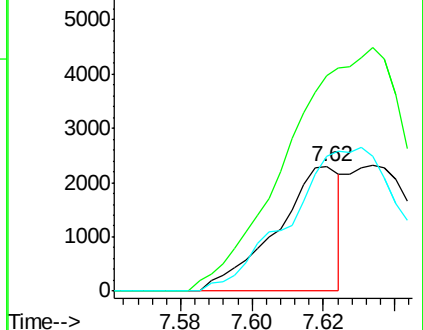
84 108.6 63.0 94.6#

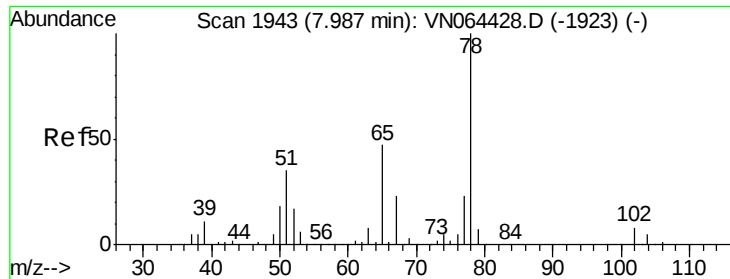


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

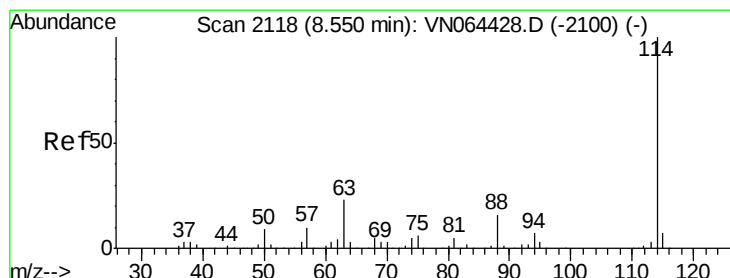
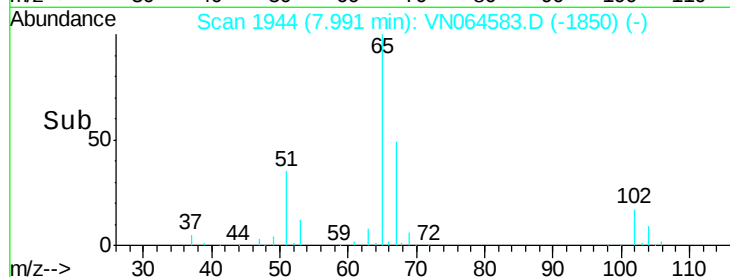
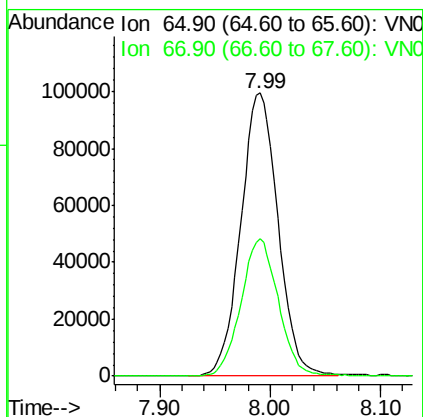
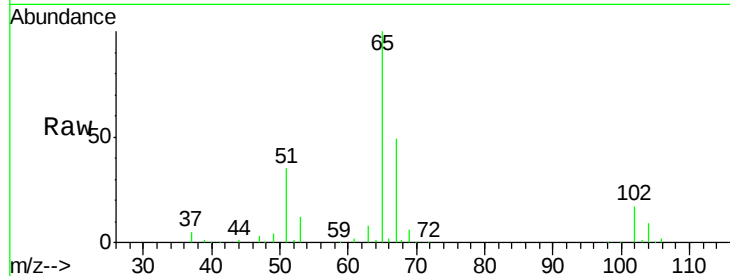




#33
 1,2-Dichloroethane-d4
 Concen: 59.714 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064583.D
 Acq: 12 Nov 2020 16:00

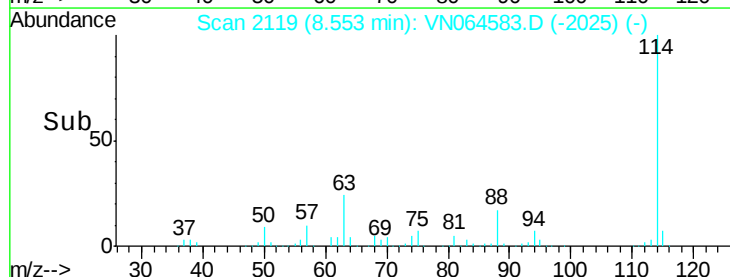
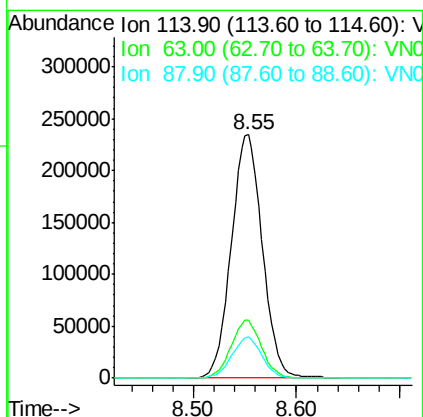
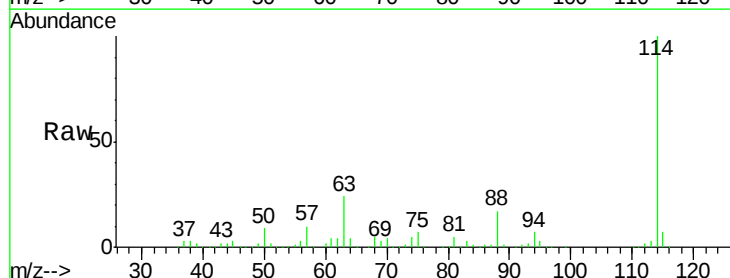
Instrument :
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 TRANSFORMER-1-3-BOTTOM

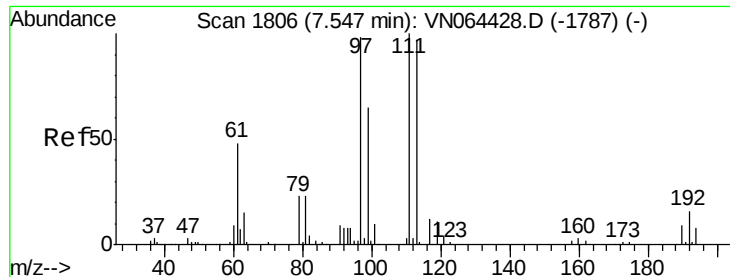
Tot Ion: 65 Resp: 232963
 Ion Ratio Lower Upper
 65 100
 67 48.5 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064583.D
 Acq: 12 Nov 2020 16:00

Tgt Ion: 114 Resp: 492468
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 45.6
 88 16.9 0.0 32.8

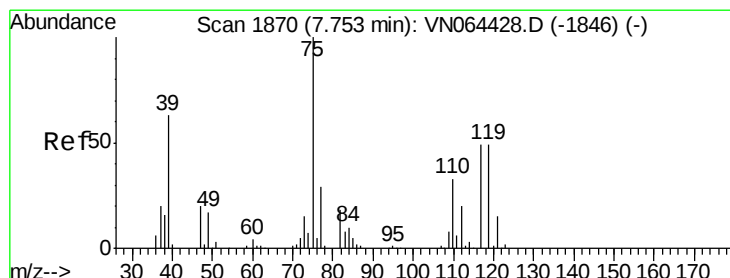
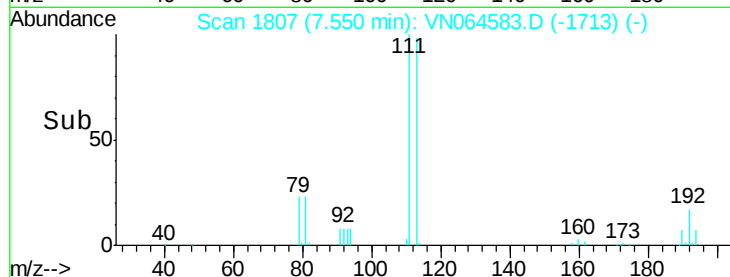
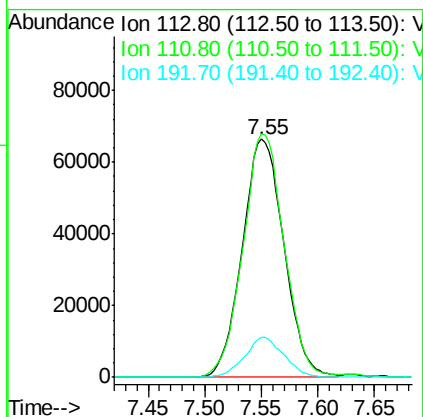
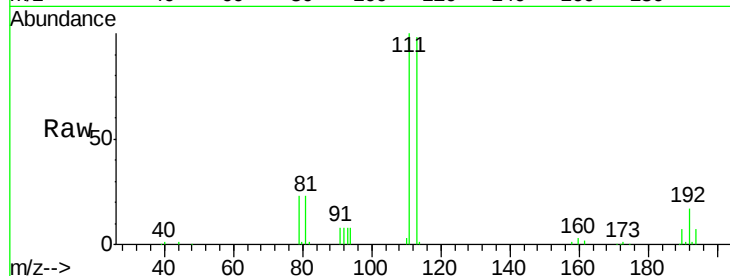




#35
 Dibromofluoromethane
 Concen: 50.859 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064583.D
 Acq: 12 Nov 2020 16:00

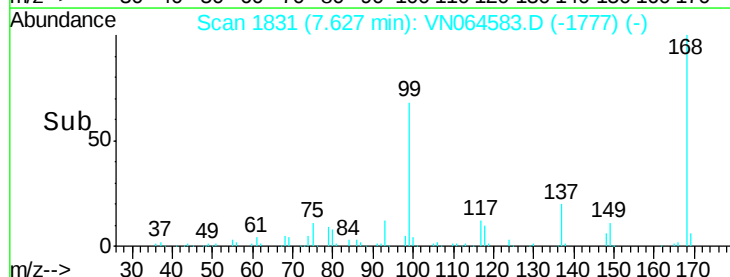
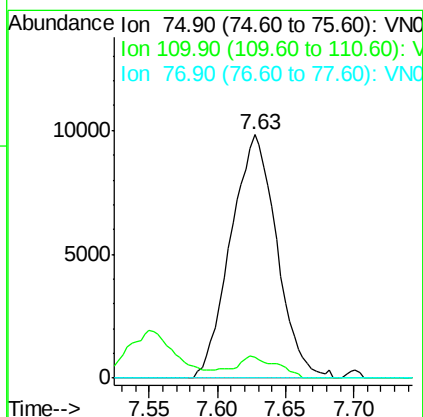
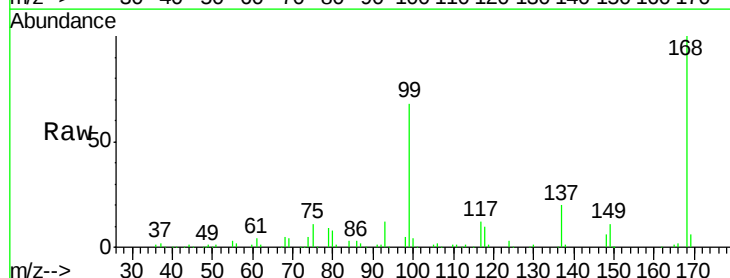
Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-1-3-BOTTOM

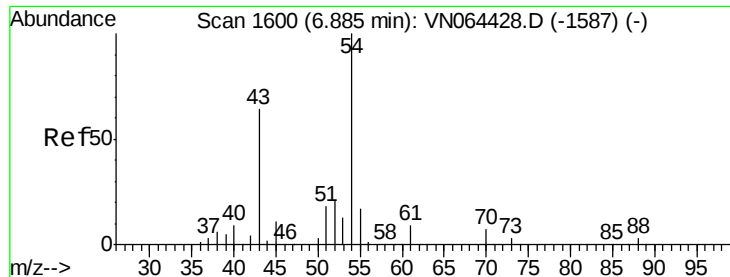
Tot Ion:113 Resp: 170532
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.1 121.7
 192 15.9 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.424 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064583.D
 Acq: 12 Nov 2020 16:00

Tgt Ion: 75 Resp: 23014
 Ion Ratio Lower Upper
 75 100
 110 7.1 16.0 48.0#
 77 0.0 24.0 36.0#





#37

Ethyl Acetate

Concen: 0.826 ug/l

RT: 6.89 min Scan# 1601

Delta R.T. 0.00 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-3-BOTTOM

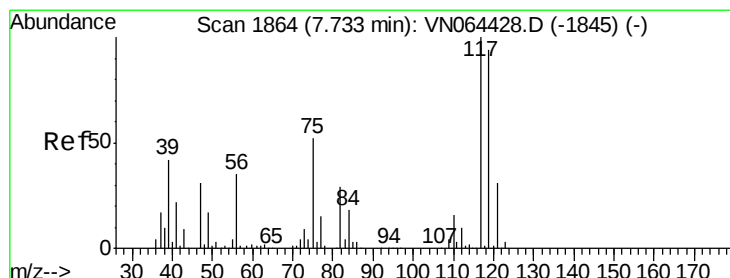
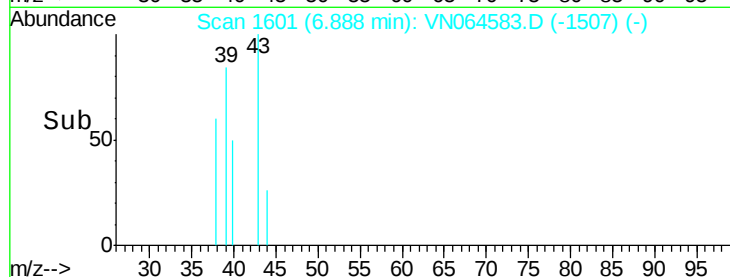
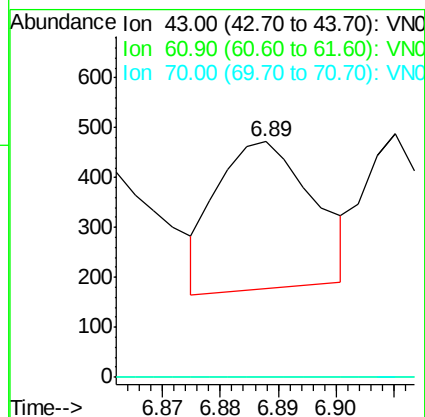
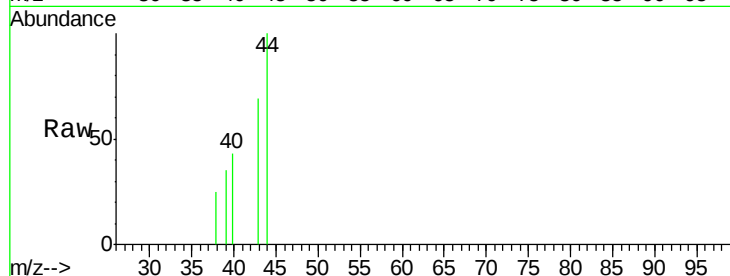
Tot Ion: 43 Resp: 339

Ion Ratio Lower Upper

43 100

61 0.0 10.0 15.0#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 4.719 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

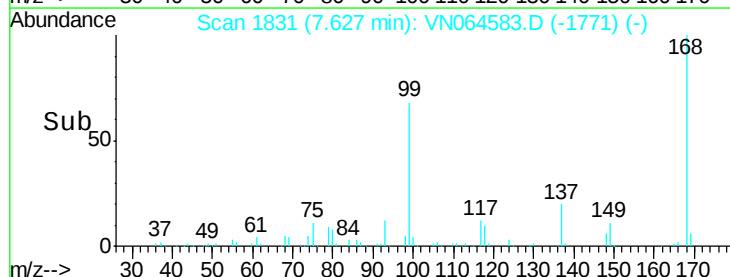
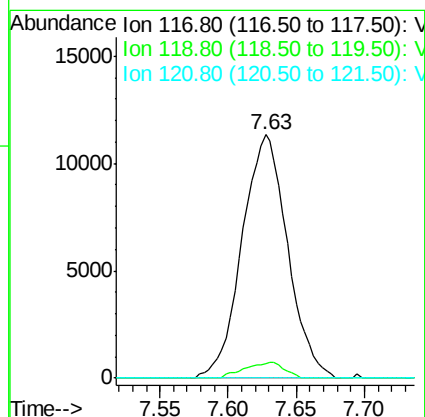
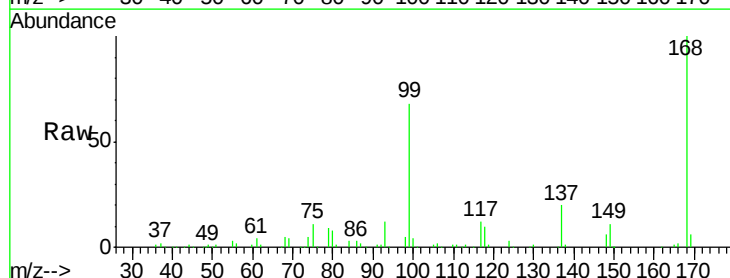
Tgt Ion: 117 Resp: 26241

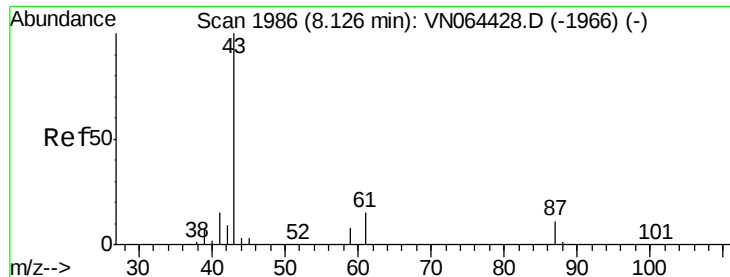
Ion Ratio Lower Upper

117 100

119 5.8 75.5 113.3#

121 0.0 24.4 36.6#



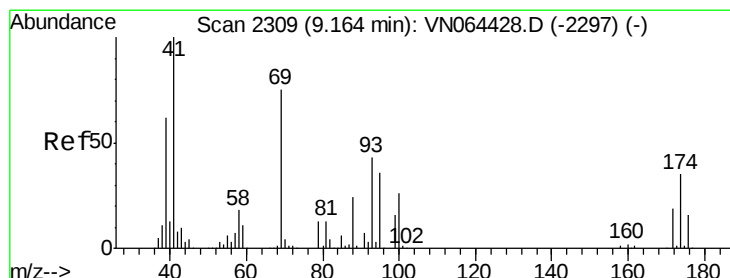
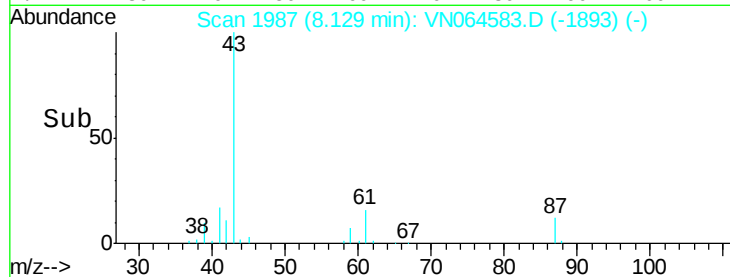
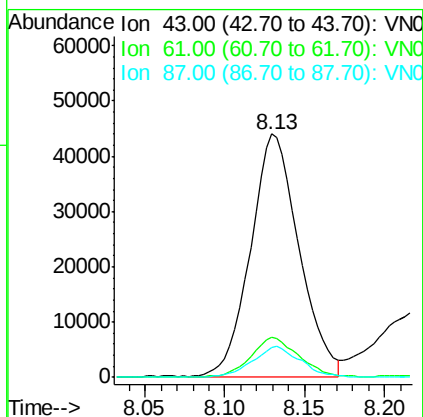
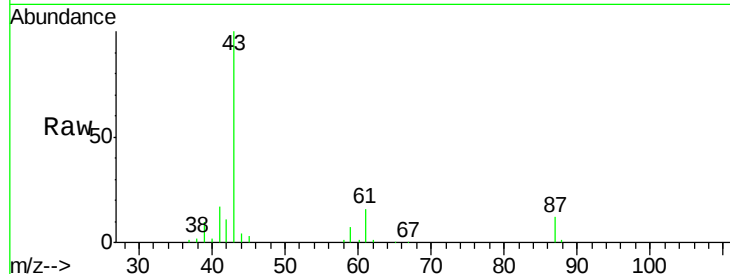


#43

Isopropyl Acetate
 Concen: 10.840 ug/l
 RT: 8.13 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN064583.D
 Acq: 12 Nov 2020 16:00

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-1-3-BOTTOM

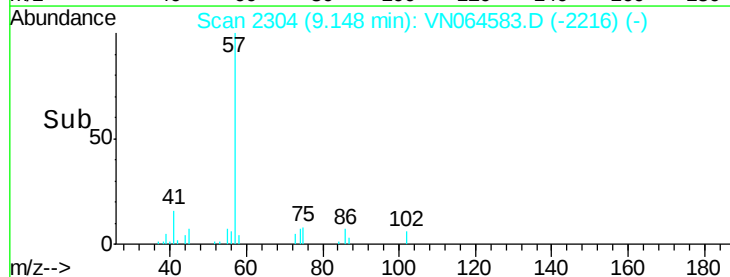
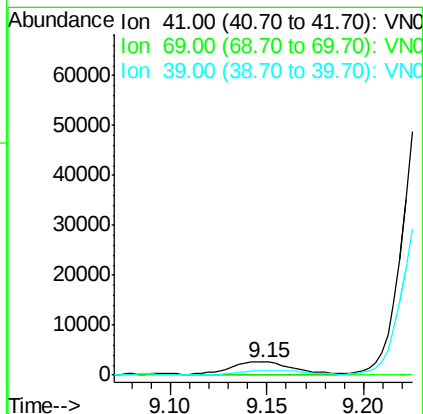
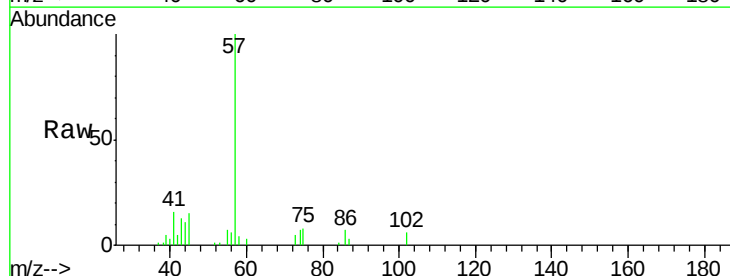
Tot Ion	43	Resp	91393
Ion Ratio	100	Lower	Upper
61	16.6	14.0	21.0
87	12.5	9.1	13.7

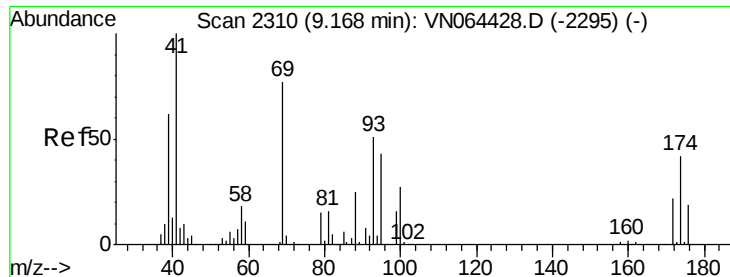


#48

Methyl methacrylate
 Concen: 1.274 ug/l
 RT: 9.15 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN064583.D
 Acq: 12 Nov 2020 16:00

Tgt Ion	41	Resp	5422
Ion Ratio	100	Lower	Upper
69	0.0	60.4	90.6#
39	0.0	51.2	76.8#





#49

1,4-Dioxane

Concen: 1.231 ug/l

RT: 9.21 min Scan# 2324

Delta R.T. 0.04 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-3-BOTTOM

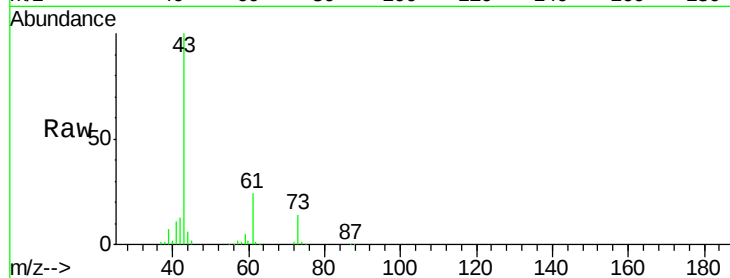
Tot Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 0.0 31.0 46.6#

58 0.0 58.4 87.6#

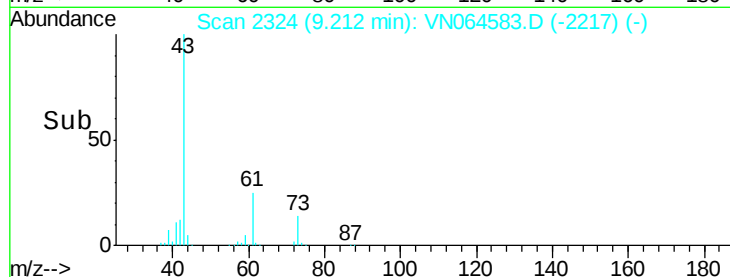


Abundance Ion 88.00 (87.70 to 88.70): VN064428.D (-2295) (-)

Ion 43.00 (42.70 to 43.70): VN064428.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN064428.D (-2295) (-)

Time-->

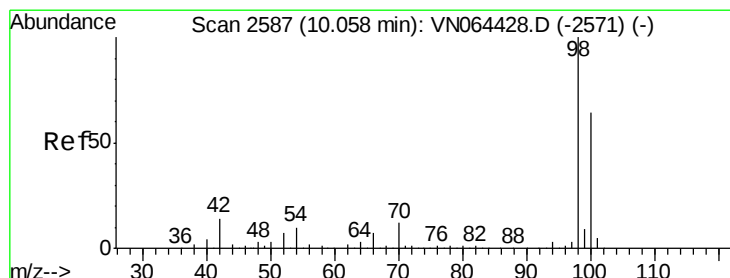


Abundance Ion 88.00 (87.70 to 88.70): VN064583.D (-2217) (-)

Ion 43.00 (42.70 to 43.70): VN064583.D (-2217) (-)

Ion 58.00 (57.70 to 58.70): VN064583.D (-2217) (-)

Time-->



#50

Toluene-d8

Concen: 49.202 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064583.D

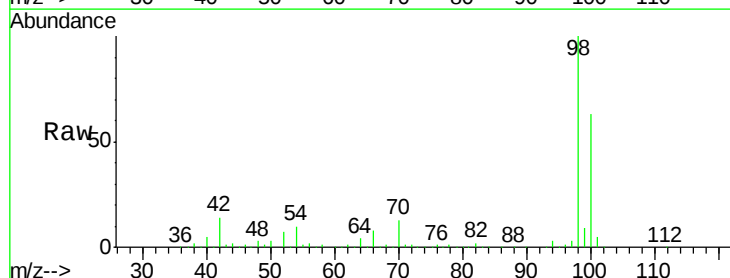
Acq: 12 Nov 2020 16:00

Tgt Ion: 98 Resp: 637634

Ion Ratio Lower Upper

98 100

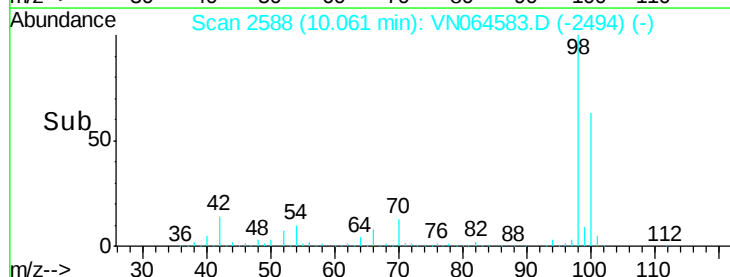
100 63.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN064428.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN064428.D (-2571) (-)

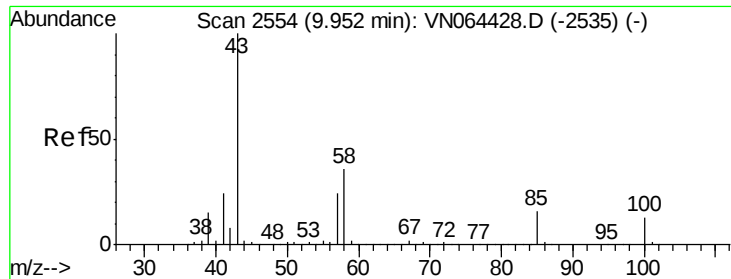
Time-->



Abundance Ion 98.00 (97.70 to 98.70): VN064583.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN064583.D (-2494) (-)

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.778 ug/l

RT: 9.96 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

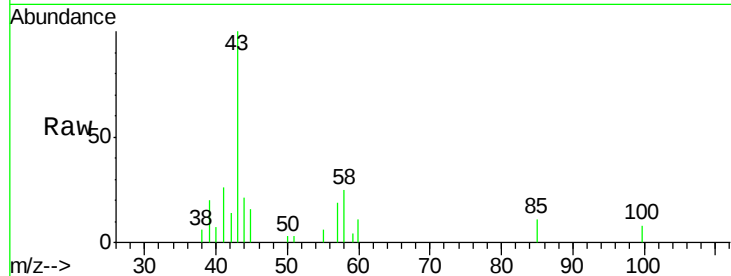
TRANSFORMER-1-3-BOTTOM

Tot Ion: 43 Resp: 8741

Ion Ratio Lower Upper

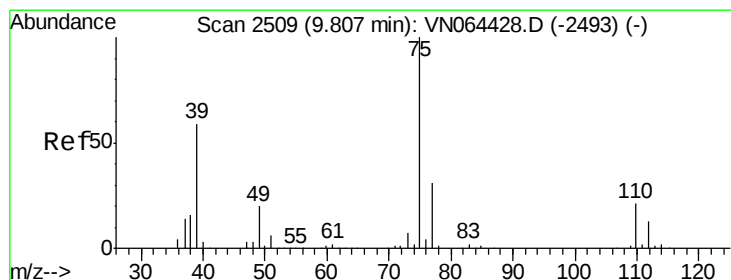
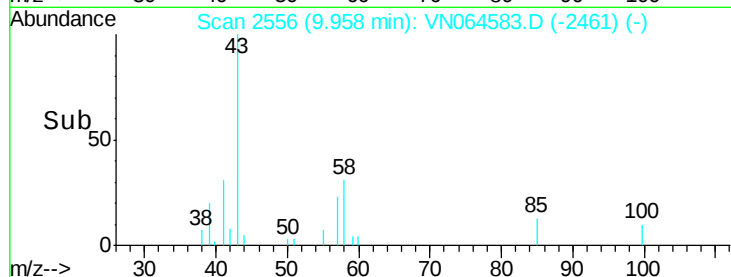
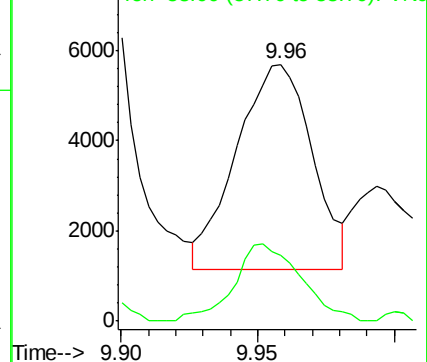
43 100

58 33.4 28.4 42.6



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: 5.391 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

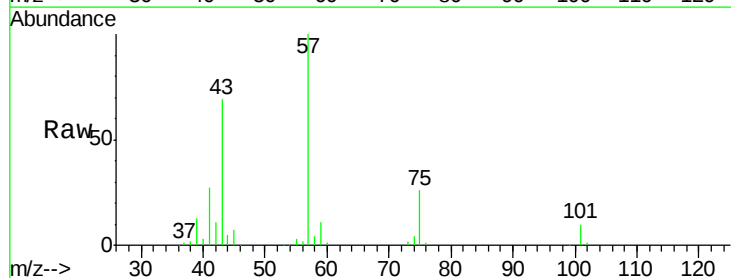
Tgt Ion: 75 Resp: 35285

Ion Ratio Lower Upper

75 100

77 0.0 24.9 37.3#

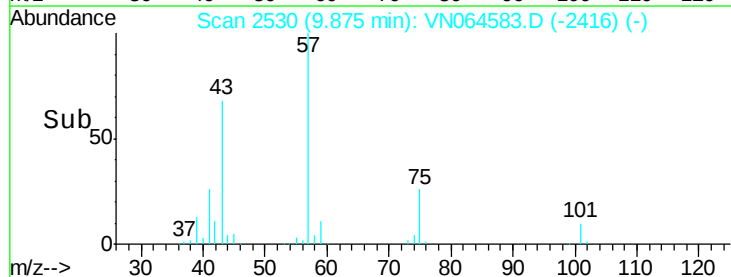
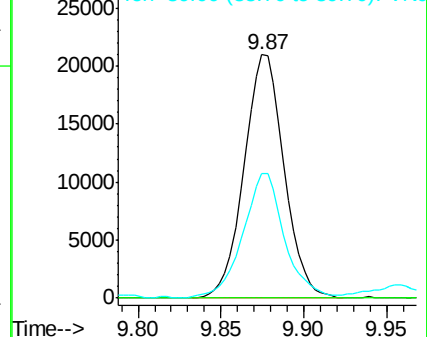
39 50.2 47.1 70.7

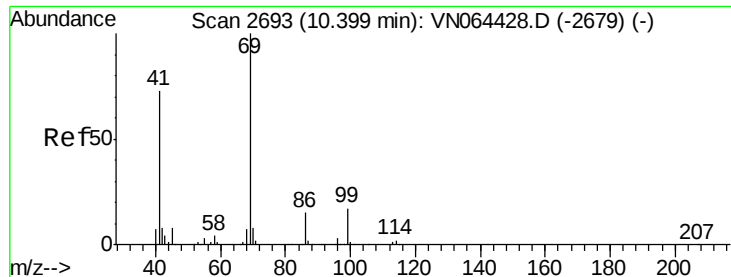


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#56

Ethyl methacrylate

Concen: 1.862 ug/l

RT: 10.35 min Scan# 2678

Delta R.T. -0.05 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-3-BOTTOM

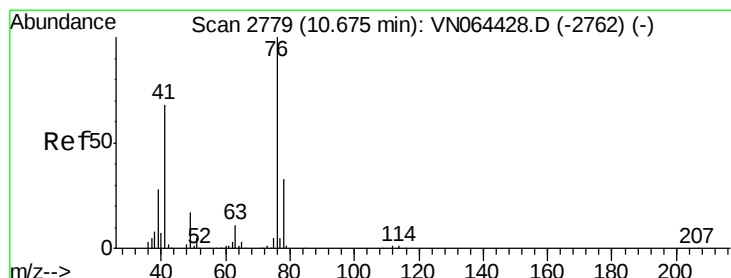
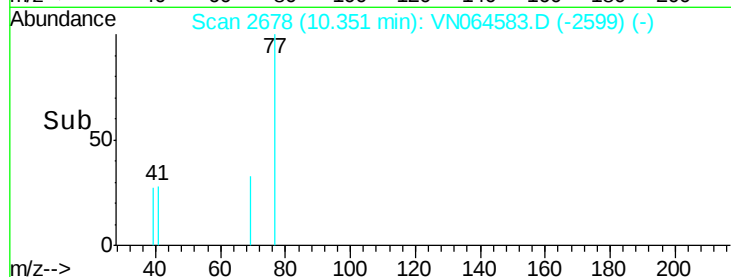
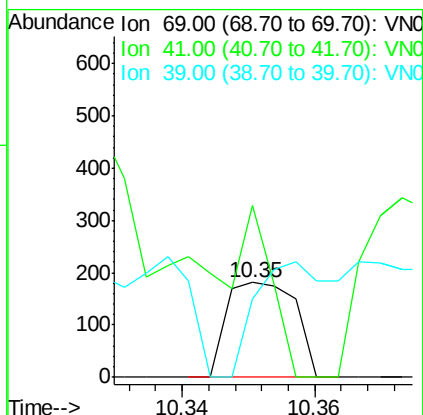
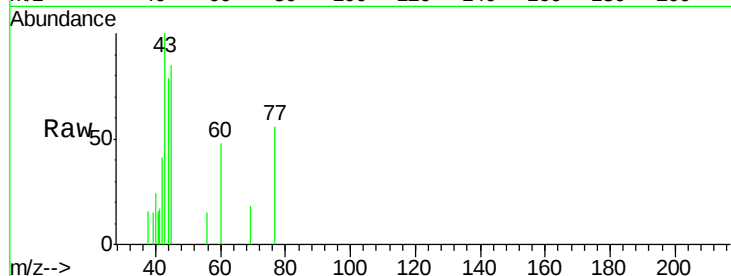
Tot Ion: 69 Resp: 130

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: 0.953 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064583.D

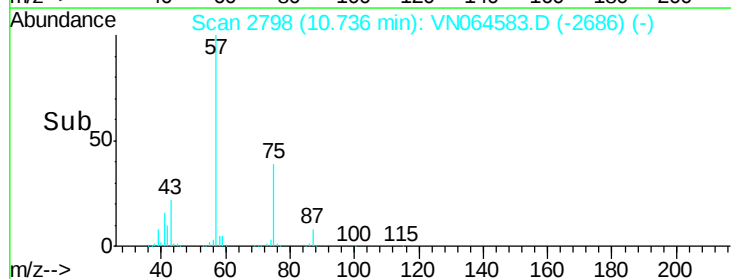
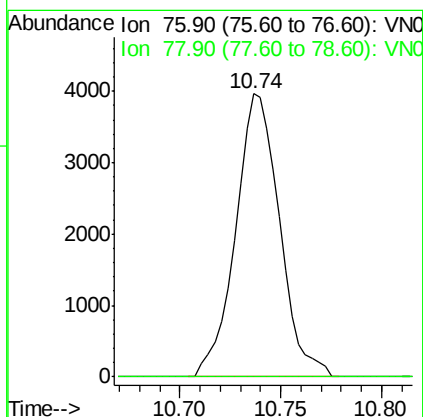
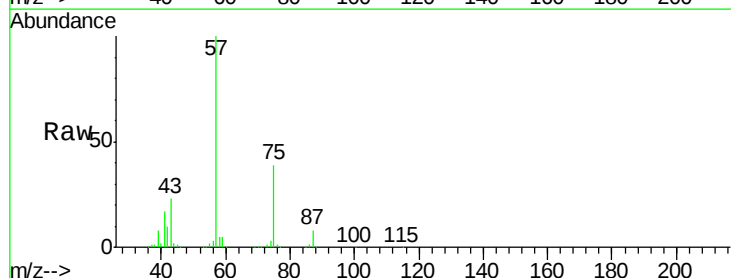
Acq: 12 Nov 2020 16:00

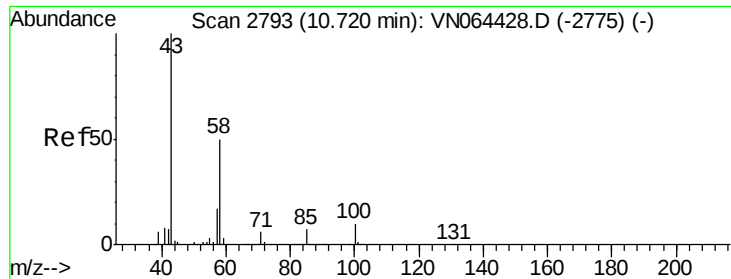
Tgt Ion: 76 Resp: 6050

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#

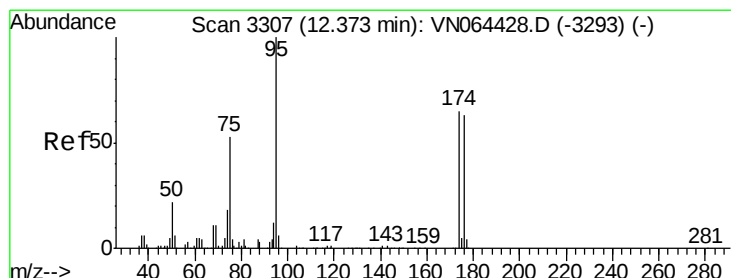
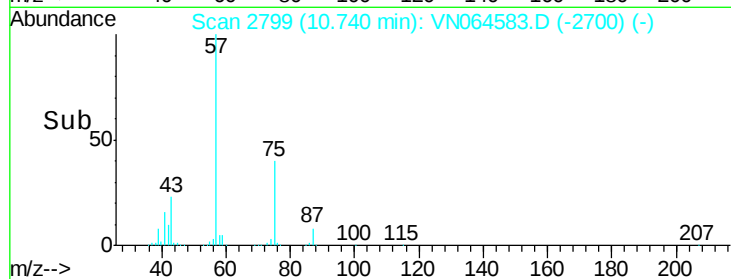
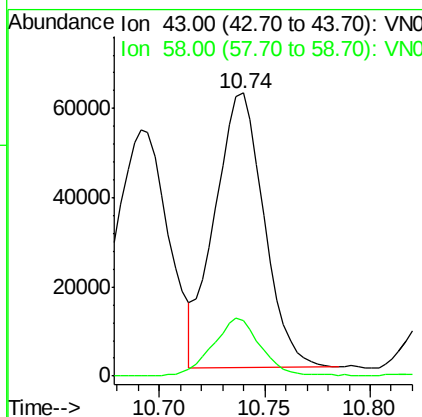
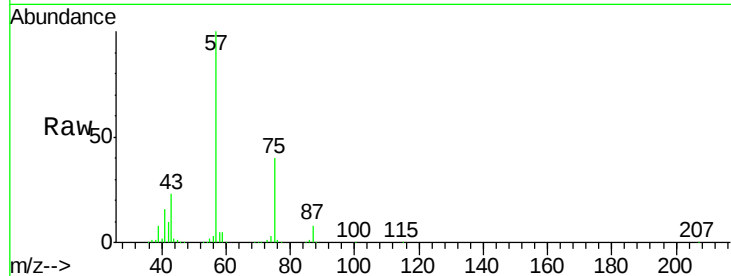




#59
2-Hexanone
Concen: 28.498 ug/l
RT: 10.74 min Scan# 2799
Delta R.T. 0.02 min
Lab File: VN064583.D
Acq: 12 Nov 2020 16:00

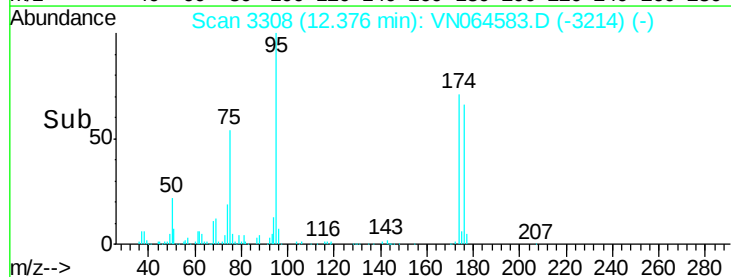
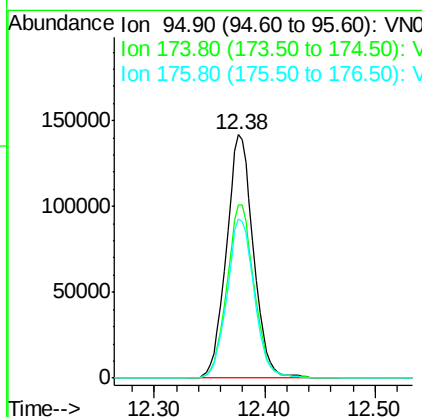
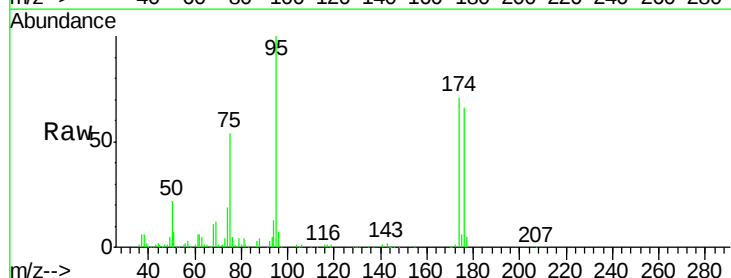
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-1-3-BOTTOM

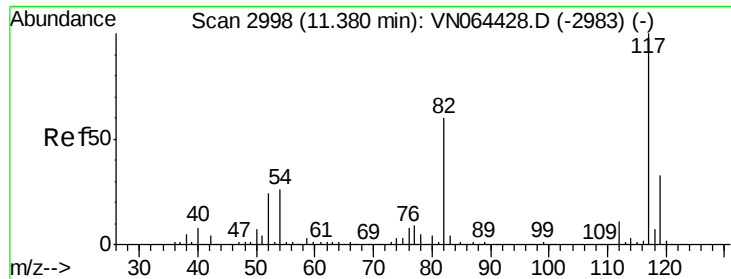
Tot Ion: 43 Resp: 99715
Ion Ratio Lower Upper
43 100
58 21.0 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 49.061 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064583.D
Acq: 12 Nov 2020 16:00

Tgt Ion: 95 Resp: 240455
Ion Ratio Lower Upper
95 100
174 71.7 0.0 132.6
176 66.1 0.0 129.2

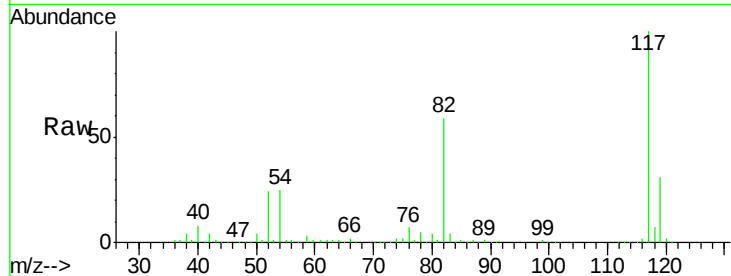




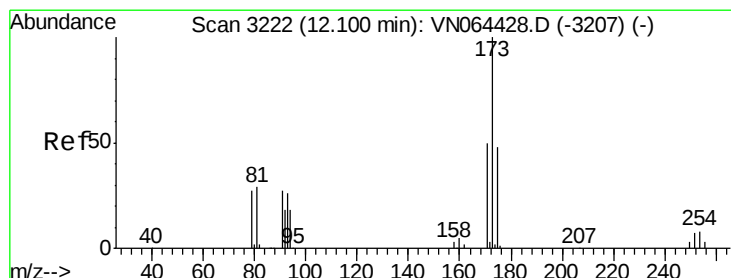
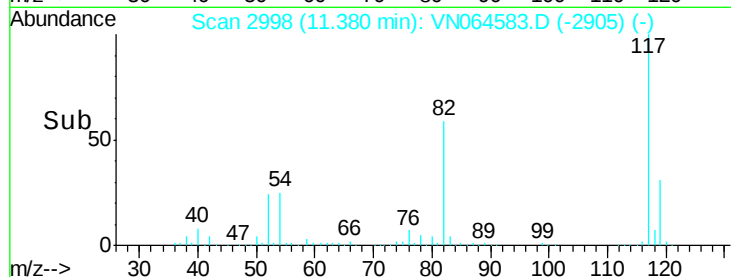
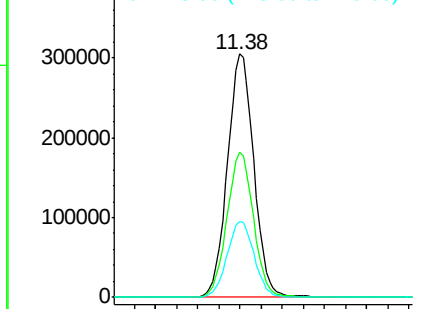
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064583.D
Acq: 12 Nov 2020 16:00

Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-1-3-BOTTOM

Tot Ion:117 Resp: 528334
Ion Ratio Lower Upper
117 100
82 59.3 48.1 72.1
119 31.4 26.2 39.4

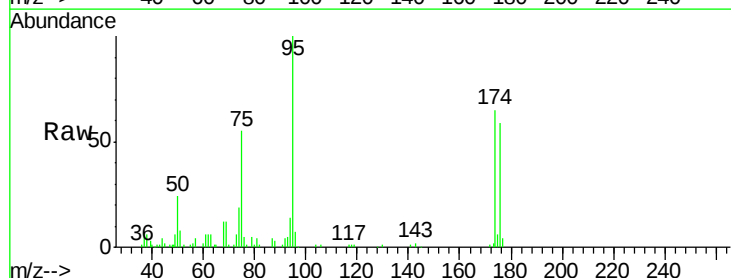


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

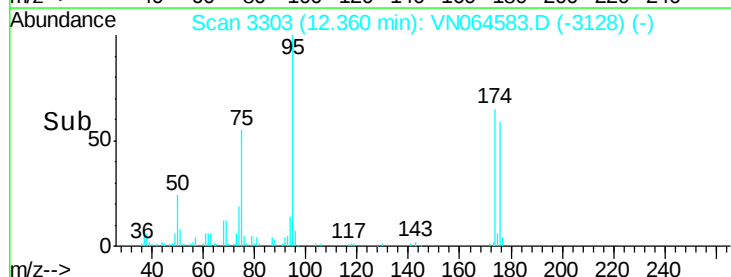
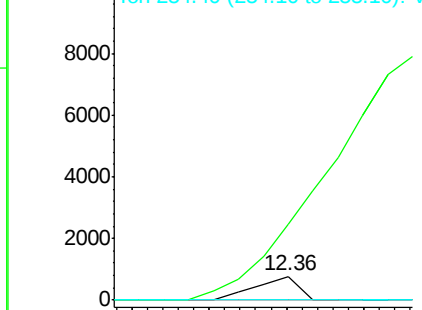


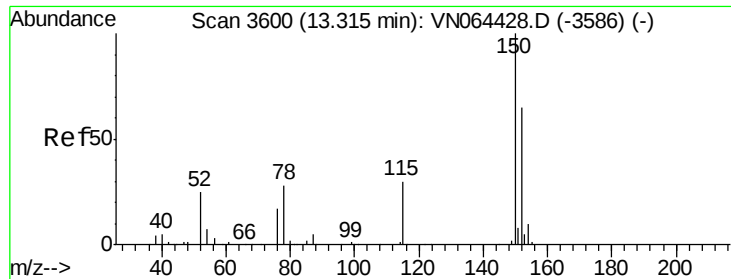
#71
Bromoform
Concen: 1.363 ug/l
RT: 12.36 min Scan# 3303
Delta R.T. 0.26 min
Lab File: VN064583.D
Acq: 12 Nov 2020 16:00

Tgt Ion:173 Resp: 294
Ion Ratio Lower Upper
173 100
175 3494.9 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: VN064583.D

Acq: 12 Nov 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-3-BOTTOM

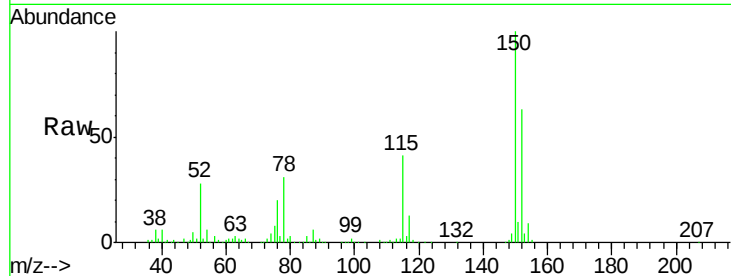
Tot Ion:152 Resp: 188235

Ion Ratio Lower Upper

152 100

115 64.6 32.0 96.0

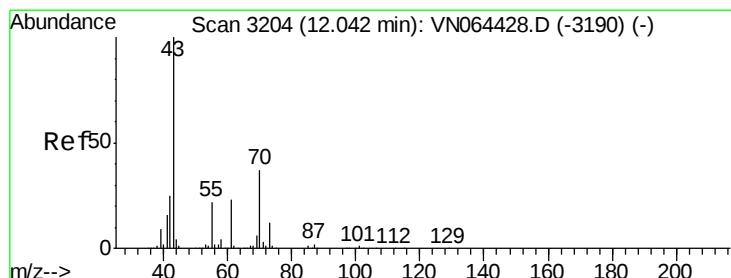
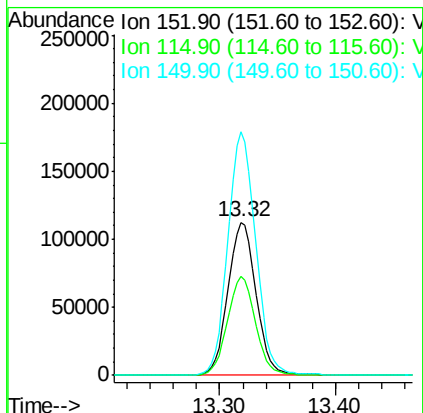
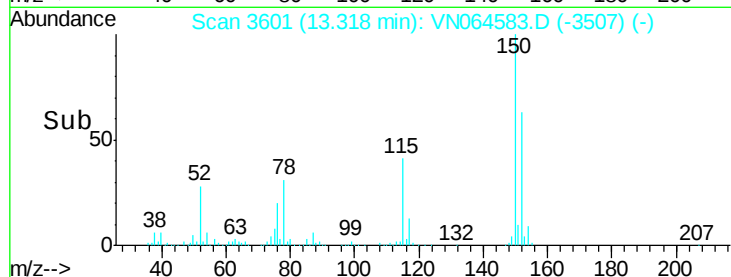
150 157.2 0.0 353.8



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: 1.677 ug/l

RT: 12.01 min Scan# 3195

Delta R.T. -0.03 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

Tgt Ion: 43 Resp: 3437

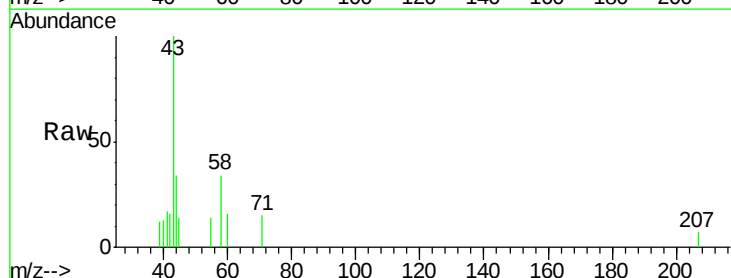
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 19.8 18.4 27.6

61 0.0 17.8 26.6#

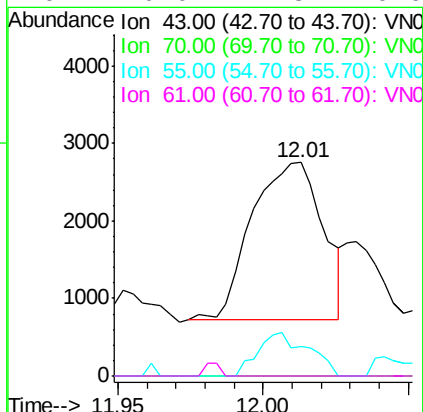
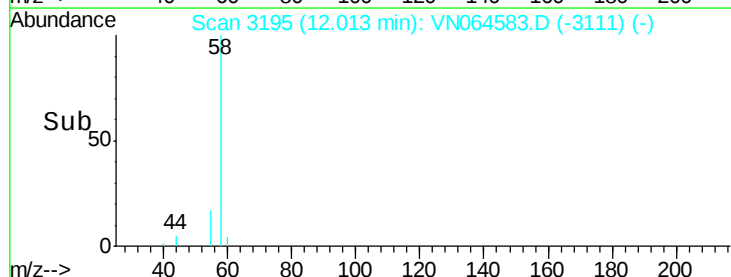


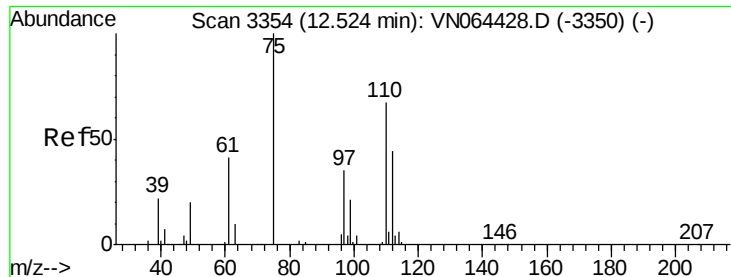
Abundance Ion 43.00 (42.70 to 43.70): V

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: 28.611 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

Instrument :

MSVOA_N

ClientSampleId :

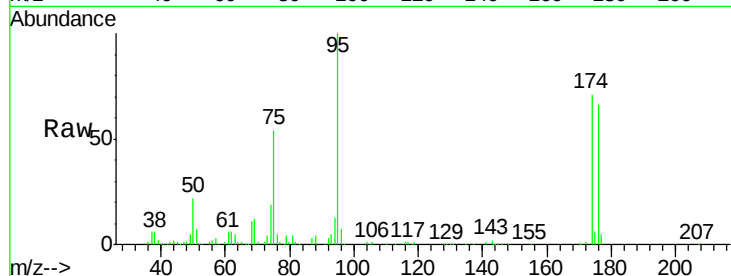
TRANSFORMER-1-3-BOTTOM

Tot Ion: 75 Resp: 130488

Ion Ratio Lower Upper

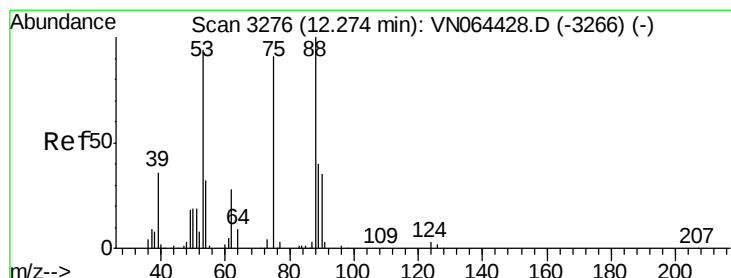
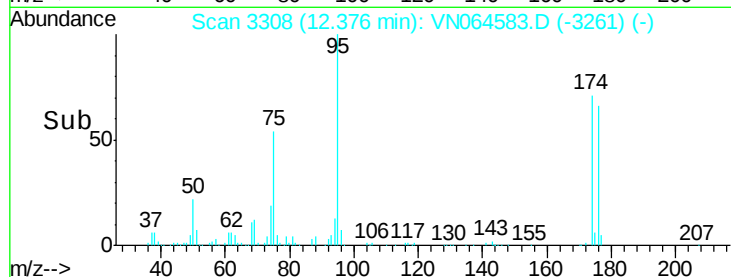
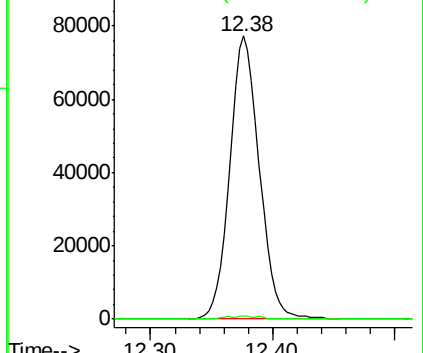
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 79.885 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064583.D

Acq: 12 Nov 2020 16:00

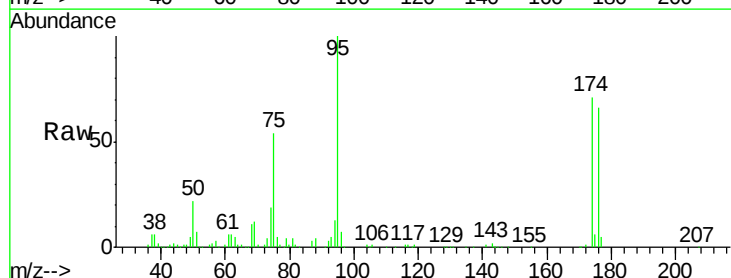
Tgt Ion: 75 Resp: 130488

Ion Ratio Lower Upper

75 100

53 0.3 84.0 126.0#

89 0.0 36.3 54.5#



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

