

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064585.D
 Acq On : 12 Nov 2020 16:49
 Operator : JC/MD
 Sample : L4701-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-1-4-BOTTOM

Quant Time: Nov 13 02:51:55 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	227638	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	504931	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	542847	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	192563	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	237640	59.93	ug/l	0.00
Spiked Amount			Recovery	=	119.86%	
35) Dibromofluoromethane	7.55	113	173022	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	
50) Toluene-d8	10.06	98	649737	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
62) 4-Bromofluorobenzene	12.38	95	240859	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	477	0.202	ug/l #	58
11) Tert butyl alcohol	4.74	59	221	0.505	ug/l #	71
13) Acrolein	3.47	56	223	0.822	ug/l #	8
16) Acetone	3.78	43	31819	21.067	ug/l	96
18) Methyl Acetate	4.29	43	5880	1.980	ug/l	93
20) Methylene Chloride	4.50	84	9003	3.004	ug/l	89
25) 2-Butanone	6.80	43	9622	5.000	ug/l	100
29) Tetrahydrofuran	7.18	42	291	0.246	ug/l #	77
31) Cyclohexane	7.62	56	7110	1.475	ug/l #	29
36) 1,1-Dichloropropene	7.62	75	21984	4.121	ug/l #	52
37) Ethyl Acetate	6.93	43	309	0.819	ug/l #	71
38) Carbon Tetrachloride	7.63	117	25815	4.528	ug/l #	19
43) Isopropyl Acetate	8.13	43	100290	11.601	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1964	0.470	ug/l #	45
48) Methyl methacrylate	9.15	41	7208	1.652	ug/l #	15
49) 1,4-Dioxane	9.23	88	318	5.535	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	9845	1.953	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	37795	5.632	ug/l #	73
56) Ethyl methacrylate	10.52	69	3768	2.433	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	6340	0.974	ug/l #	44
59) 2-Hexanone	10.74	43	109299	30.188	ug/l #	56
71) Bromoform	12.36	173	168	1.324	ug/l #	1
74) N-amyl acetate	12.01	43	4614	1.821	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	137414	29.452	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	137414	82.234	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN064585.D

Acq: 12 Nov 2020 16:49

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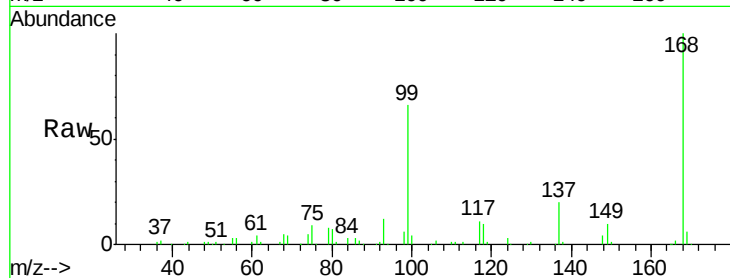
TRANSFORMER-1-4-BOTTOM

Tot Ion:168 Resp: 227638

Ion Ratio Lower Upper

168 100

99 65.5 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

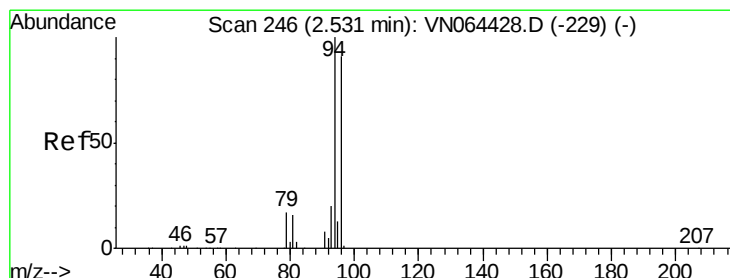
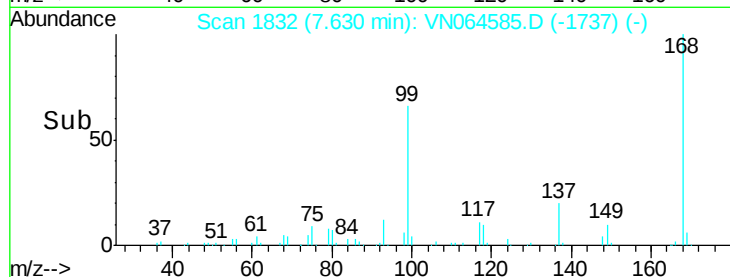
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: 0.202 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.02 min

Lab File: VN064585.D

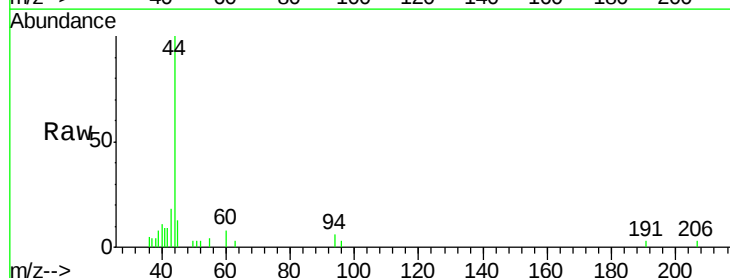
Acq: 12 Nov 2020 16:49

Tgt Ion: 94 Resp: 477

Ion Ratio Lower Upper

94 100

96 51.9 73.1 109.7#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

400

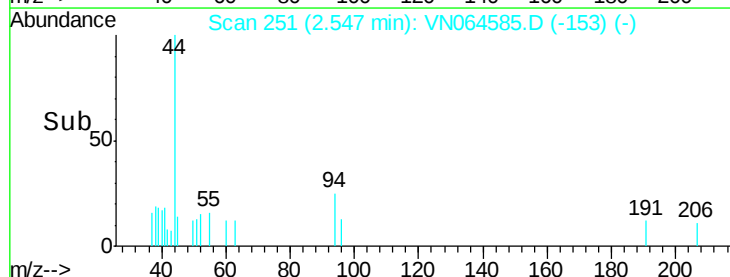
300

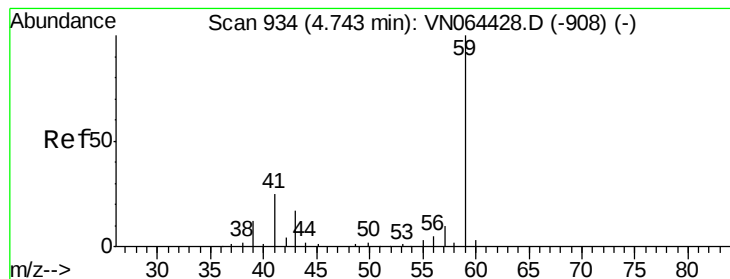
200

100

0

Time--> 2.50 2.52 2.54 2.56



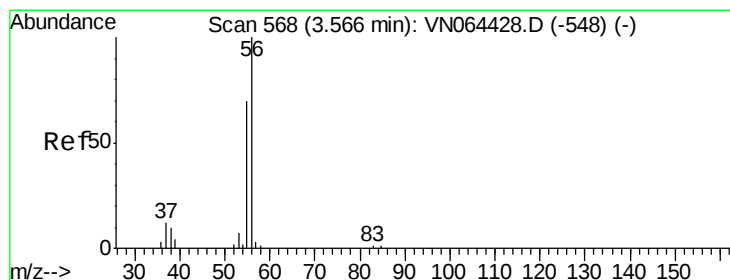
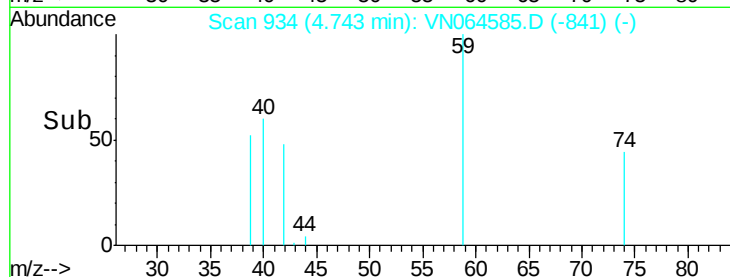
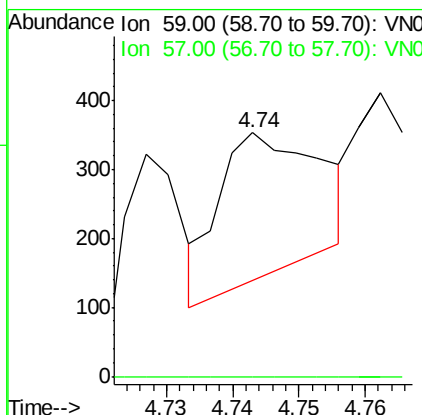
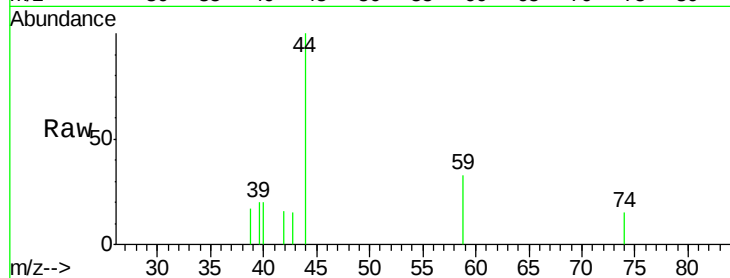


#11

Tert butyl alcohol
 Concen: 0.505 ug/l
 RT: 4.74 min Scan# 934
 Delta R.T. -0.00 min
 Lab File: VN064585.D
 Acq: 12 Nov 2020 16:49

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-1-4-BOTTOM

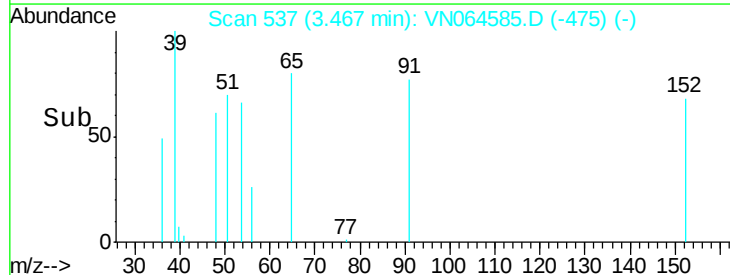
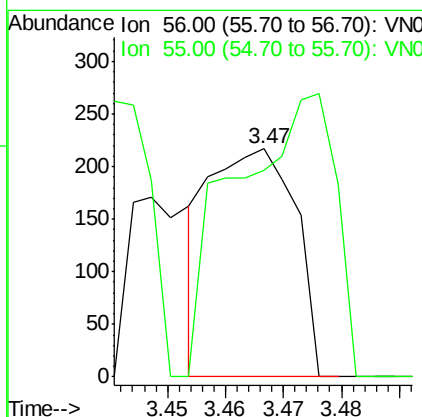
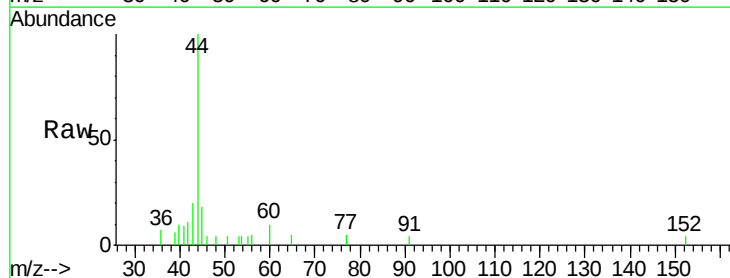
Tot Ion: 59 Resp: 221
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

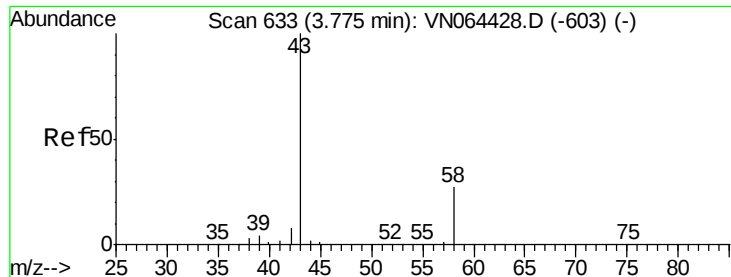


#13

Acrolein
 Concen: 0.822 ug/l
 RT: 3.47 min Scan# 537
 Delta R.T. -0.10 min
 Lab File: VN064585.D
 Acq: 12 Nov 2020 16:49

Tgt Ion: 56 Resp: 223
 Ion Ratio Lower Upper
 56 100
 55 145.7 55.9 83.9#





#16

Acetone

Concen: 21.067 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064585.D

Acq: 12 Nov 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

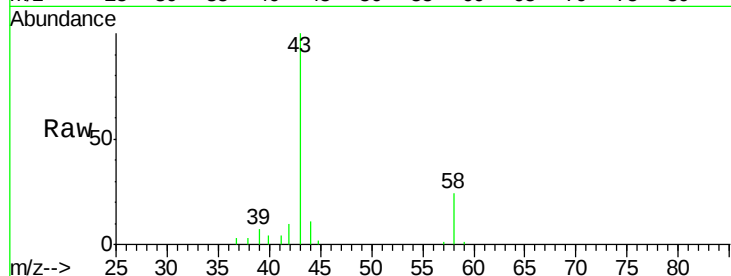
TRANSFORMER-1-4-BOTTOM

Tot Ion: 43 Resp: 31819

Ion Ratio Lower Upper

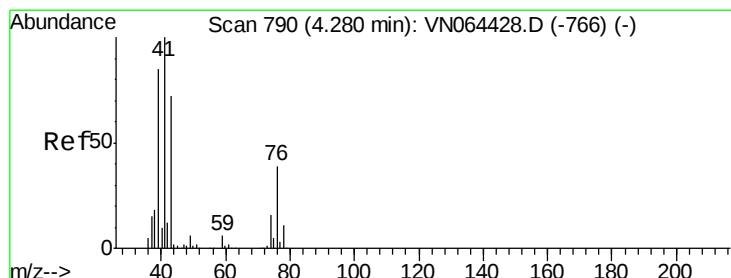
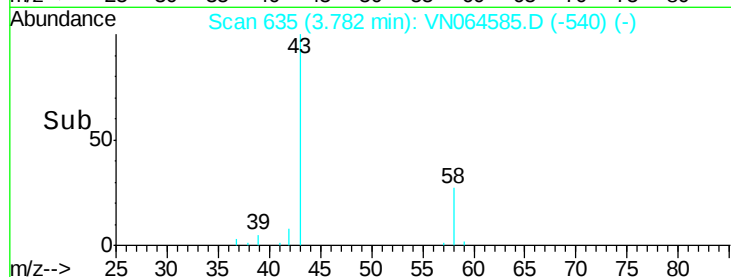
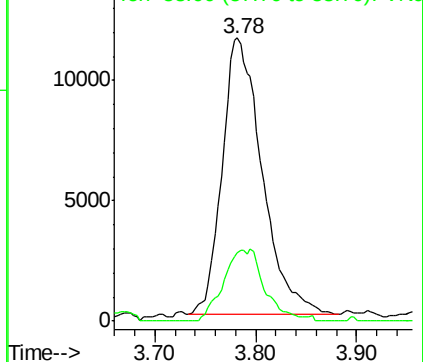
43 100

58 24.9 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.980 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.01 min

Lab File: VN064585.D

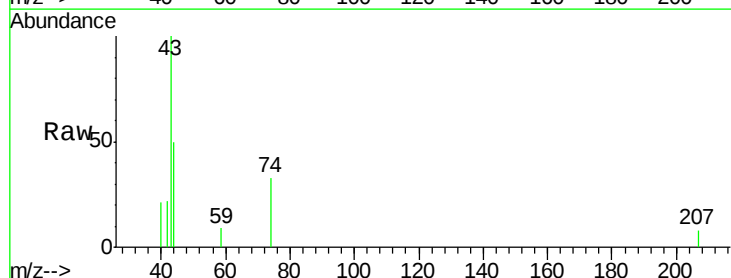
Acq: 12 Nov 2020 16:49

Tgt Ion: 43 Resp: 5880

Ion Ratio Lower Upper

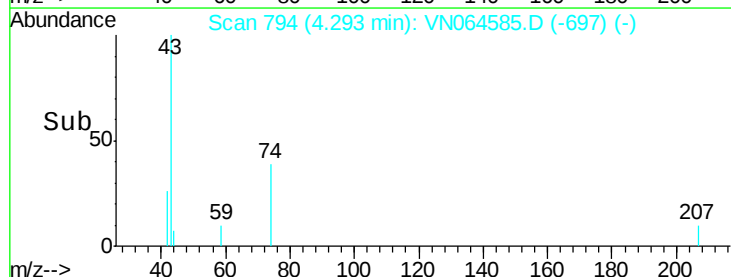
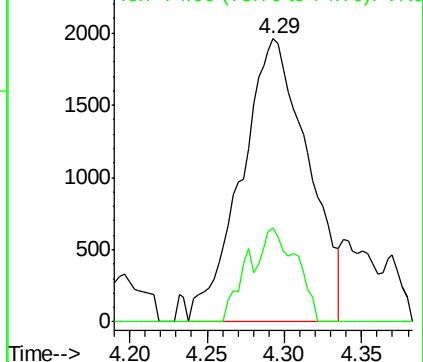
43 100

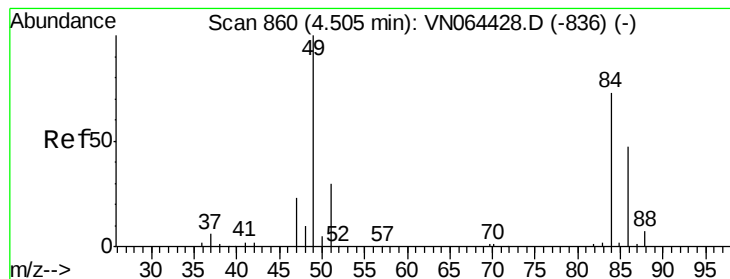
74 17.7 17.0 25.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 3.004 ug/l

RT: 4.50 min Scan# 858

Delta R.T. -0.01 min

Lab File: VN064585.D

Acq: 12 Nov 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-4-BOTTOM

Tot Ion: 84 Resp: 9003

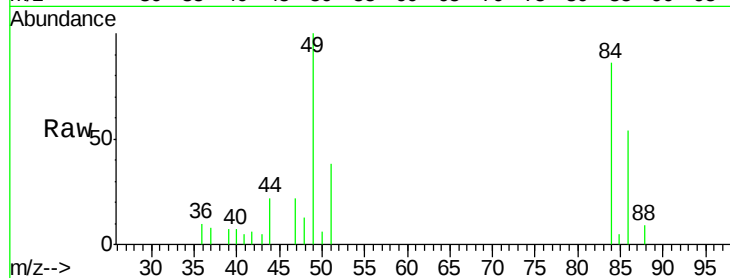
Ion Ratio Lower Upper

84 100

49 116.0 110.1 165.1

51 43.6 33.6 50.4

86 63.1 52.1 78.1

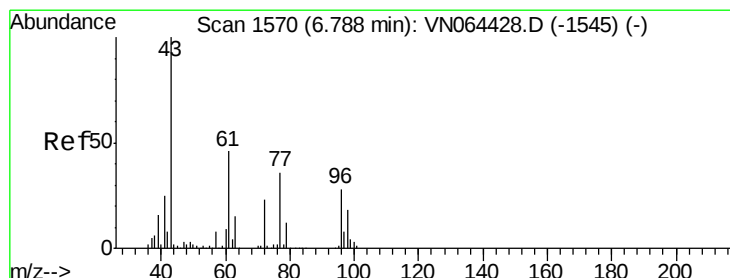
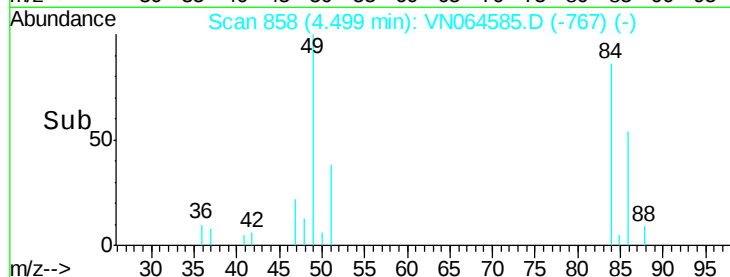
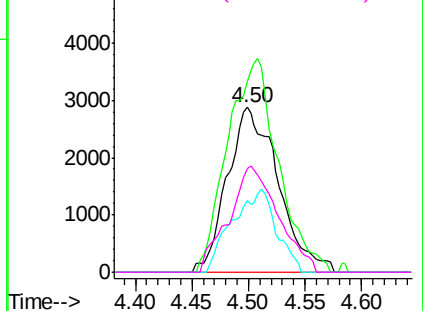


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 5.000 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN064585.D

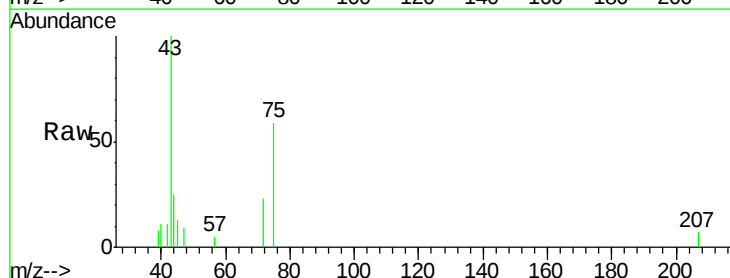
Acq: 12 Nov 2020 16:49

Tgt Ion: 43 Resp: 9622

Ion Ratio Lower Upper

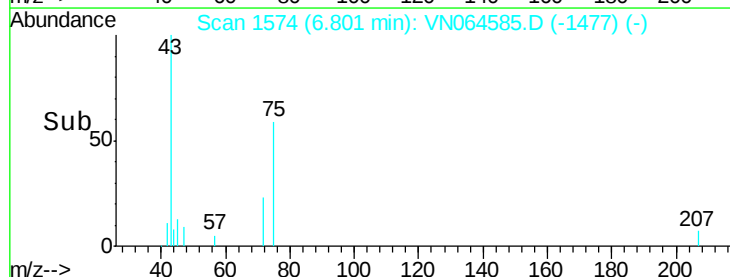
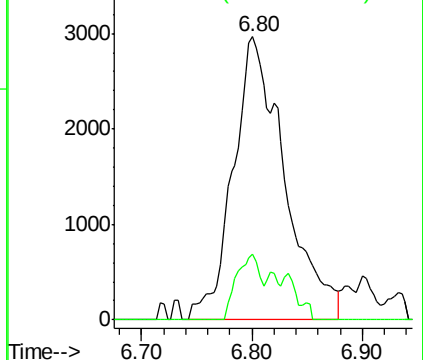
43 100

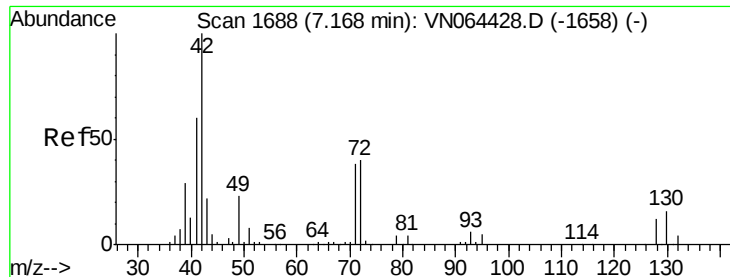
72 23.0 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

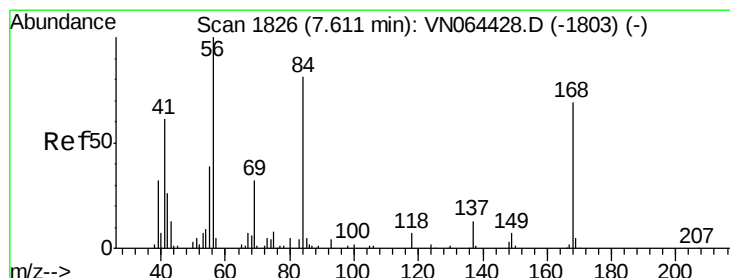
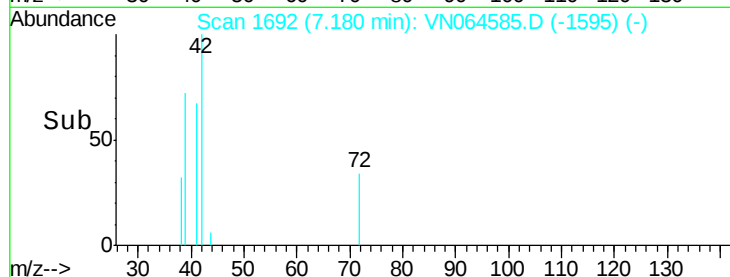
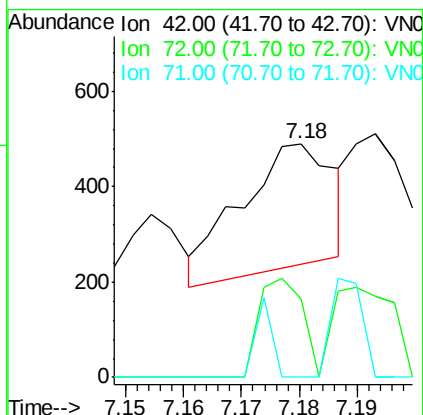
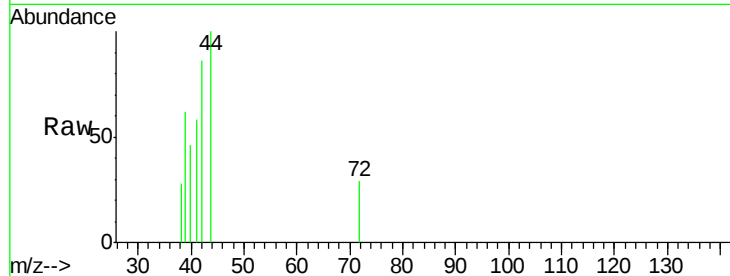




#29
Tetrahydrofuran
Concen: 0.246 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.01 min
Lab File: VN064585.D
Acq: 12 Nov 2020 16:49

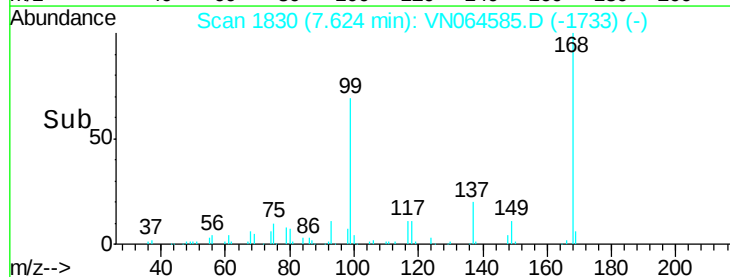
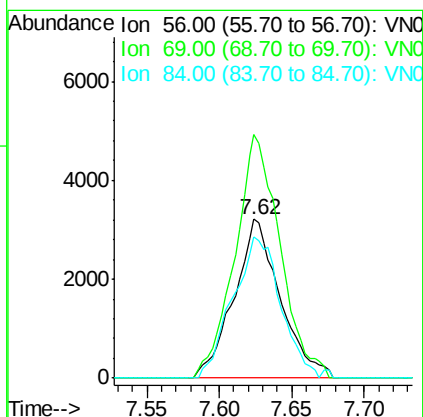
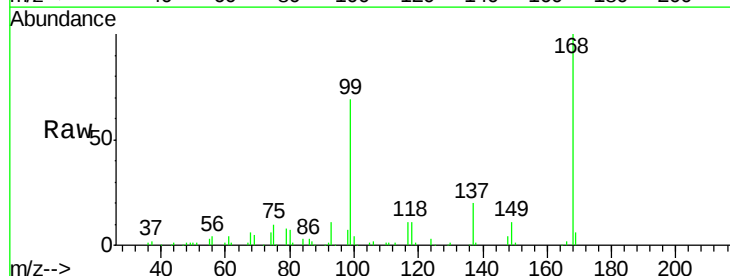
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-1-4-BOTTOM

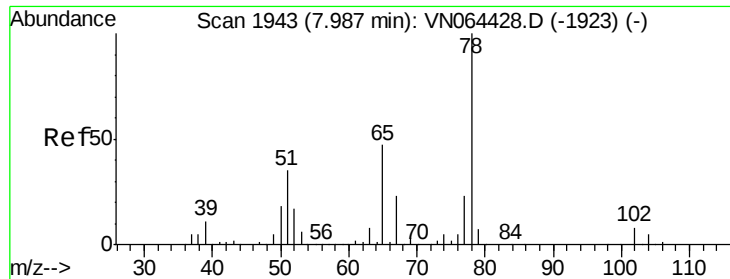
Tot Ion: 42 Resp: 291
Ion Ratio Lower Upper
42 100
72 37.1 31.7 47.5
71 11.0 29.8 44.6#



#31
Cyclohexane
Concen: 1.475 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064585.D
Acq: 12 Nov 2020 16:49

Tgt Ion: 56 Resp: 7110
Ion Ratio Lower Upper
56 100
69 153.3 25.6 38.4#
84 88.9 63.0 94.6

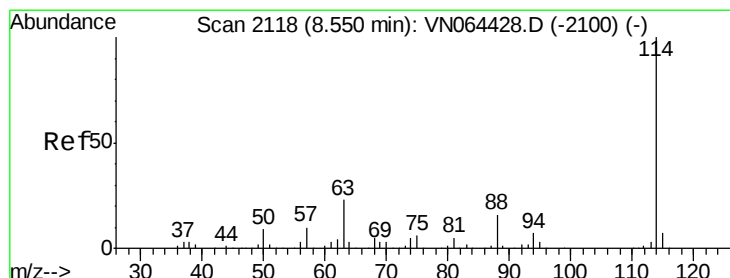
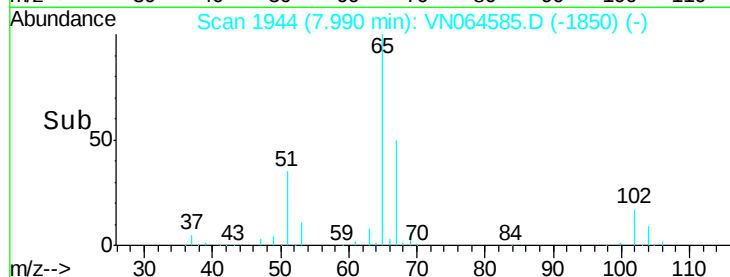
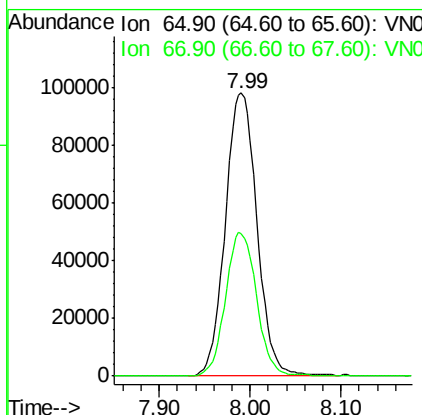
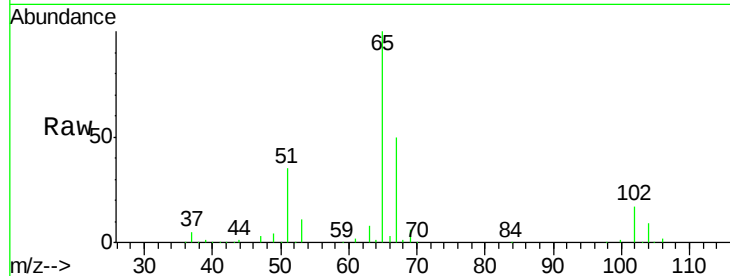




#33
 1,2-Dichloroethane-d4
 Concen: 59.933 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064585.D
 Acq: 12 Nov 2020 16:49

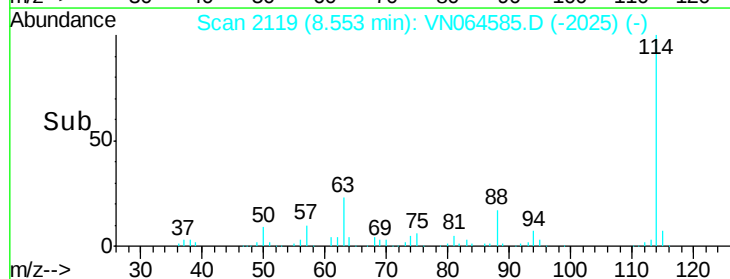
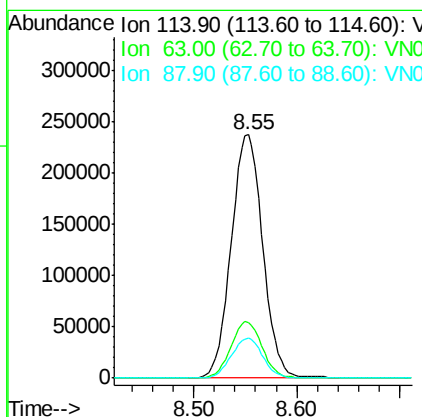
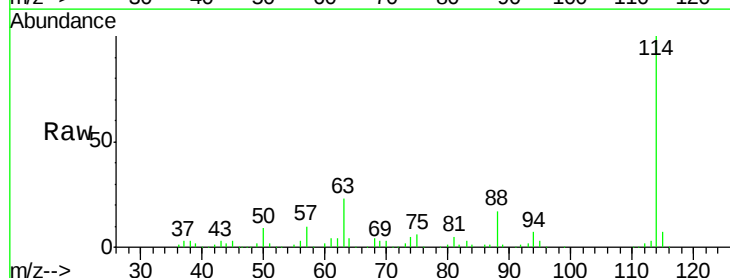
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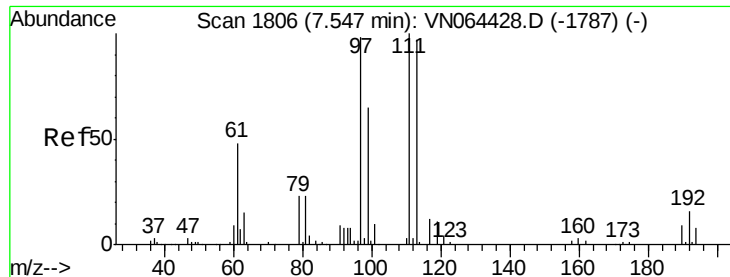
Tot Ion: 65 Resp: 237640
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064585.D
 Acq: 12 Nov 2020 16:49

Tgt Ion: 114 Resp: 504931
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.6
 88 16.6 0.0 32.8

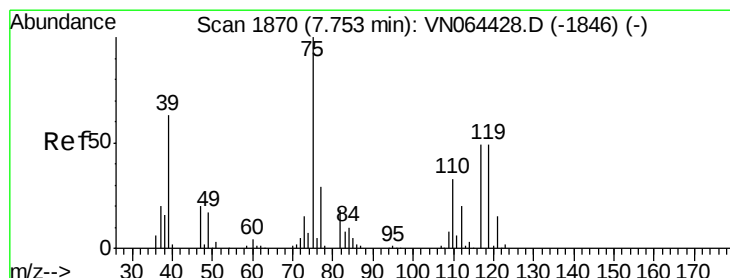
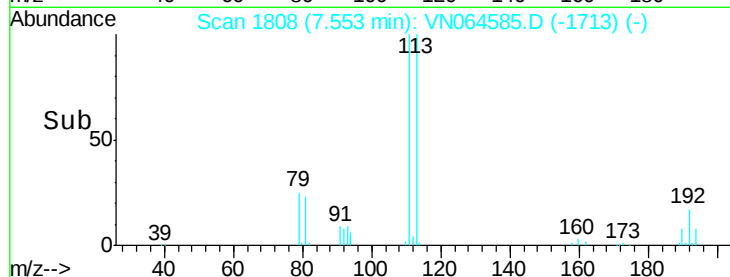
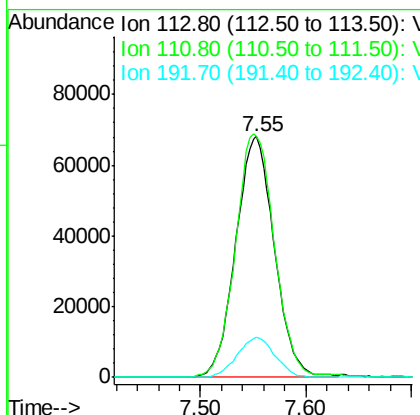
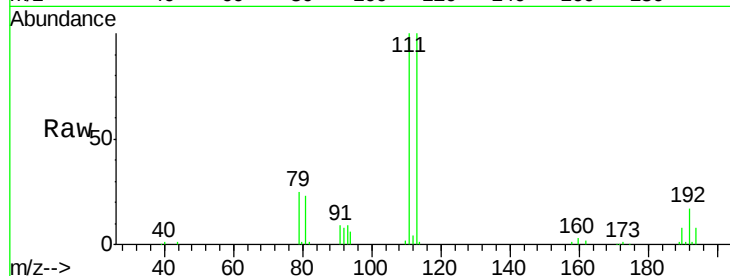




#35
 Dibromofluoromethane
 Concen: 50.328 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN064585.D
 Acq: 12 Nov 2020 16:49

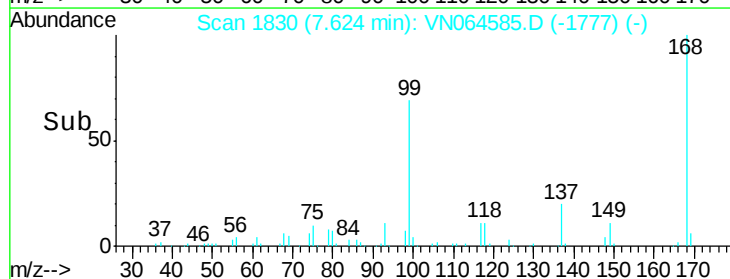
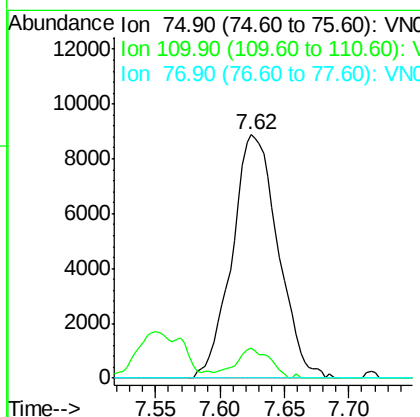
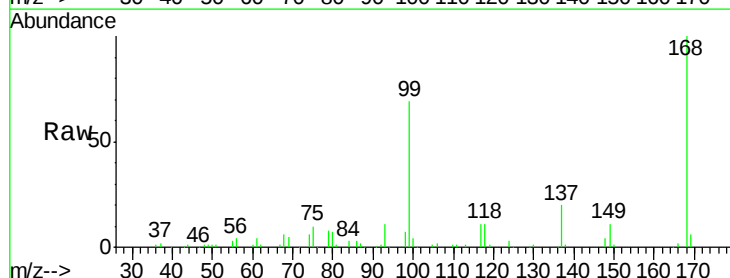
Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-1-4-BOTTOM

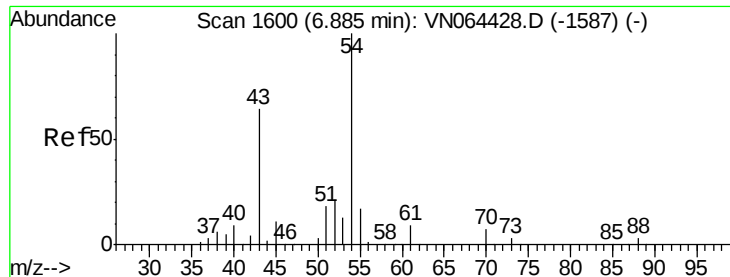
Tot Ion:113 Resp: 173022
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.1 121.7
 192 16.3 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.121 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064585.D
 Acq: 12 Nov 2020 16:49

Tgt Ion: 75 Resp: 21984
 Ion Ratio Lower Upper
 75 100
 110 9.1 16.0 48.0#
 77 0.0 24.0 36.0#

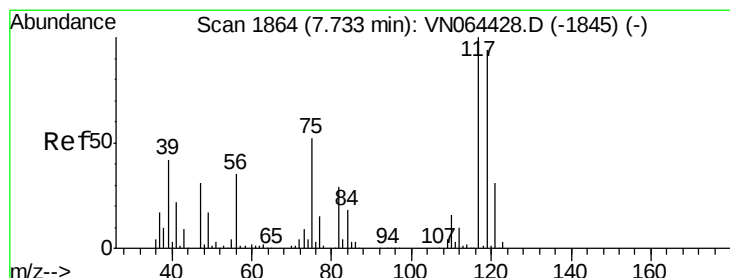
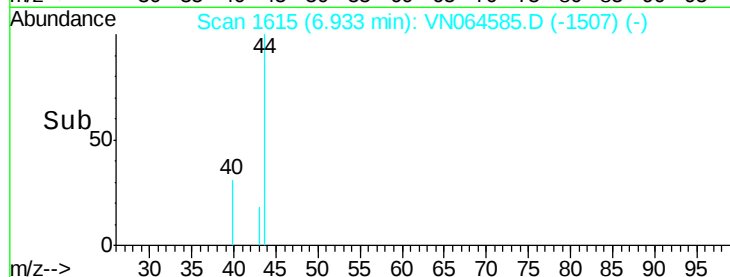
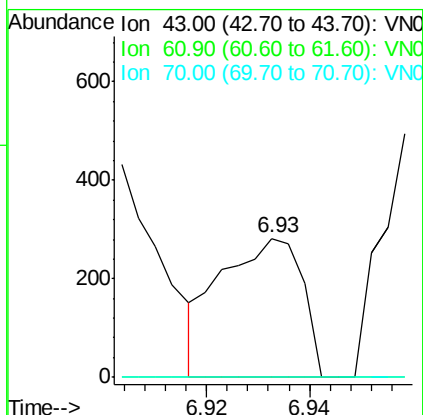
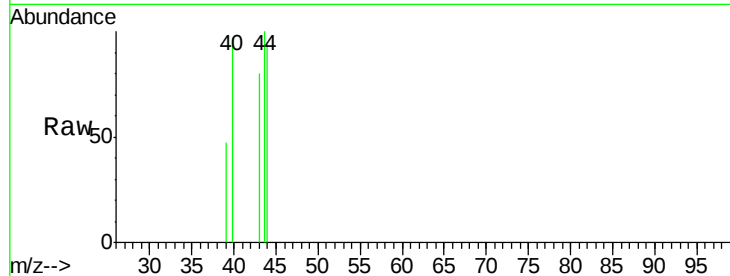




#37
Ethyl Acetate
Concen: 0.819 ug/l
RT: 6.93 min Scan# 1615
Delta R.T. 0.05 min
Lab File: VN064585.D
Acq: 12 Nov 2020 16:49

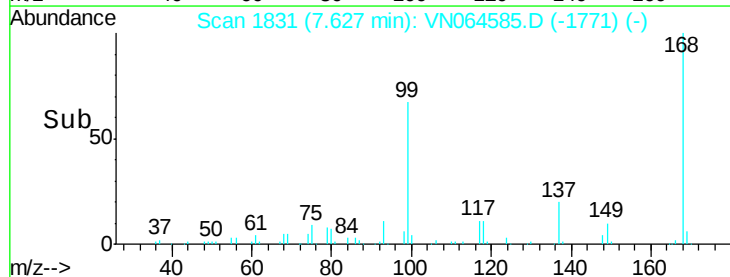
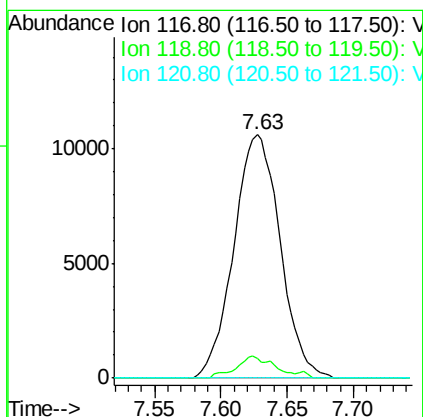
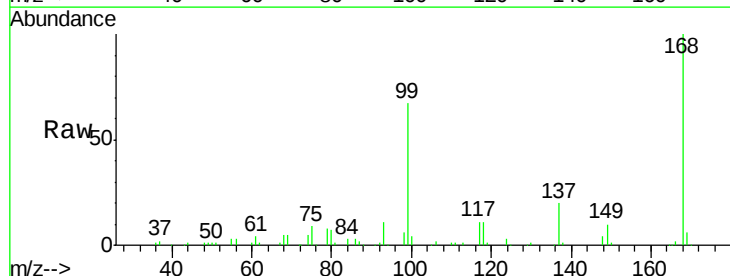
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-1-4-BOTTOM

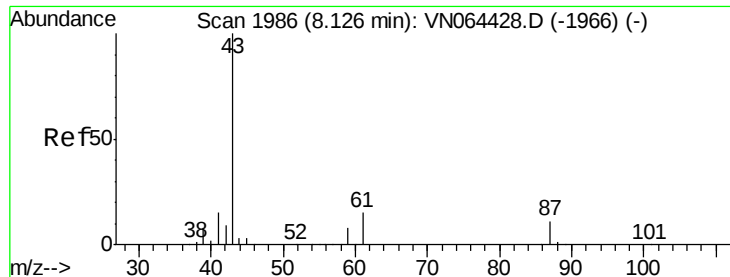
Tot Ion: 43 Resp: 309
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 4.528 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064585.D
Acq: 12 Nov 2020 16:49

Tgt Ion: 117 Resp: 25815
Ion Ratio Lower Upper
117 100
119 7.9 75.5 113.3#
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 11.601 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064585.D

Acq: 12 Nov 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-4-BOTTOM

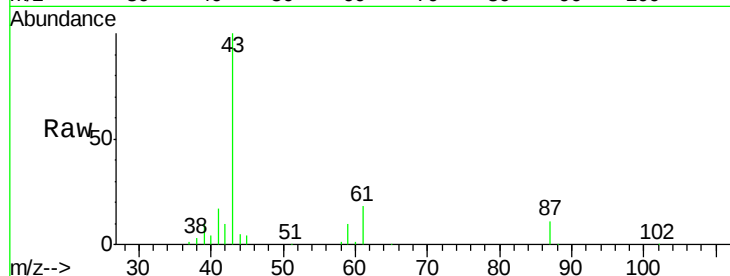
Tot Ion: 43 Resp: 100290

Ion Ratio Lower Upper

43 100

61 16.1 14.0 21.0

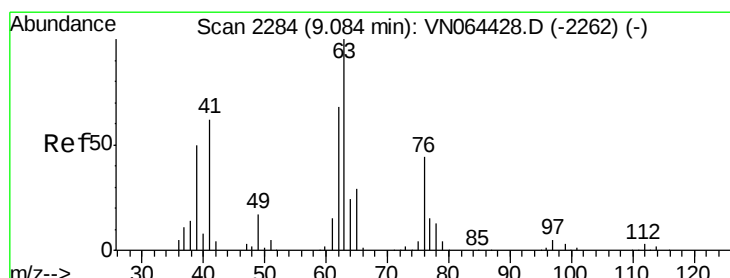
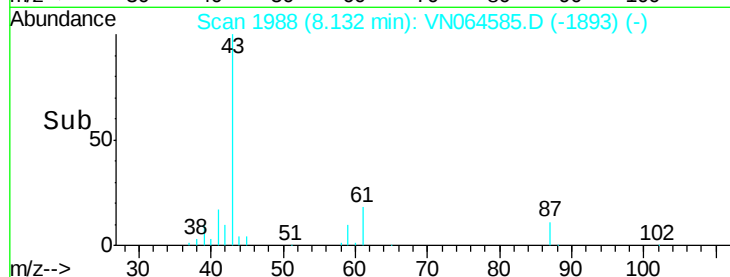
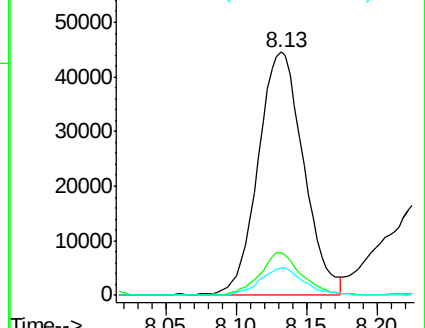
87 10.9 9.1 13.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.470 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN064585.D

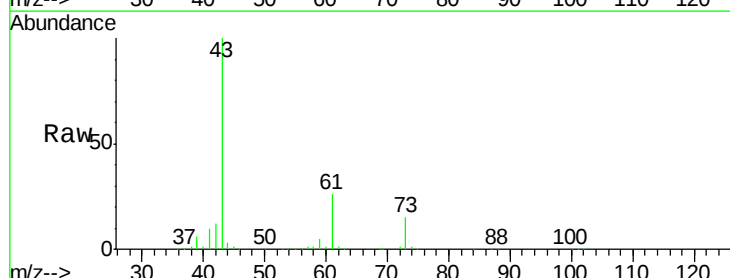
Acq: 12 Nov 2020 16:49

Tgt Ion: 63 Resp: 1964

Ion Ratio Lower Upper

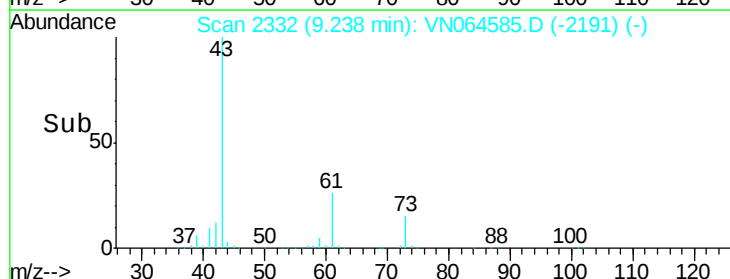
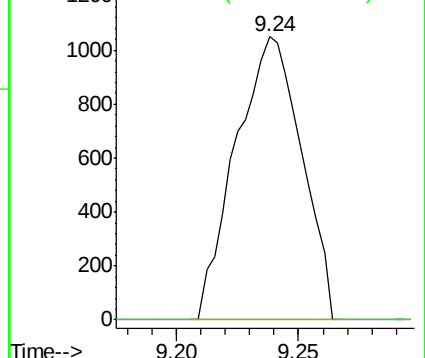
63 100

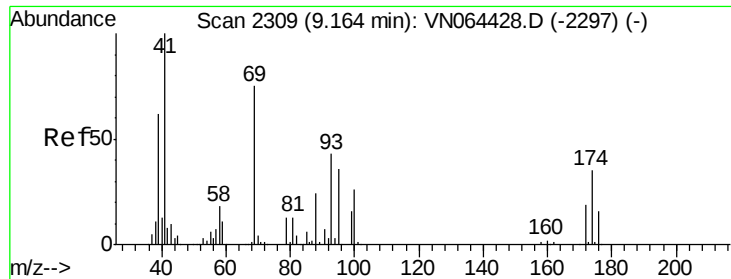
65 0.0 23.6 35.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

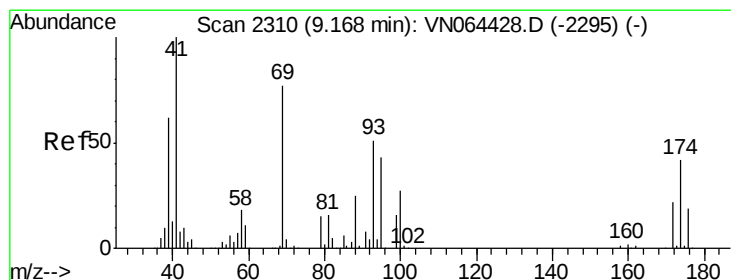
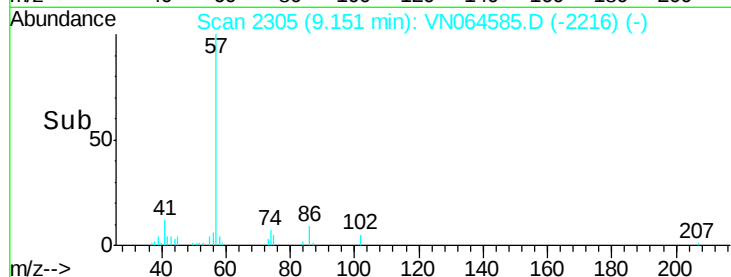
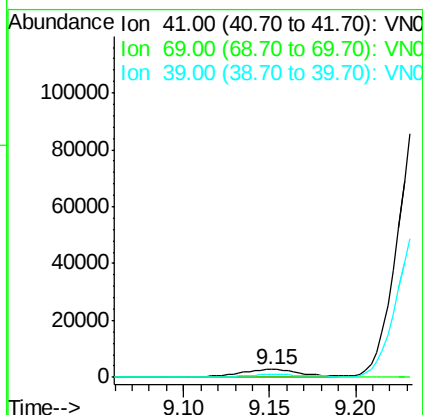
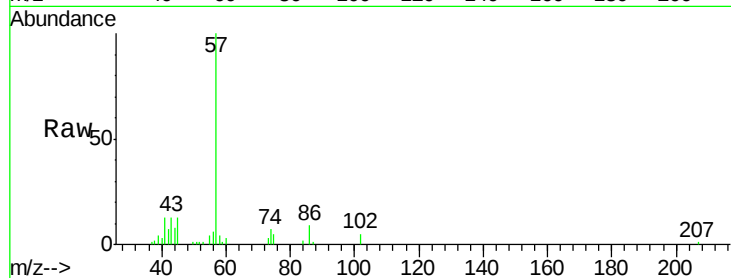




#48
Methyl methacrylate
Concen: 1.652 ug/l
RT: 9.15 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN064585.D
Acq: 12 Nov 2020 16:49

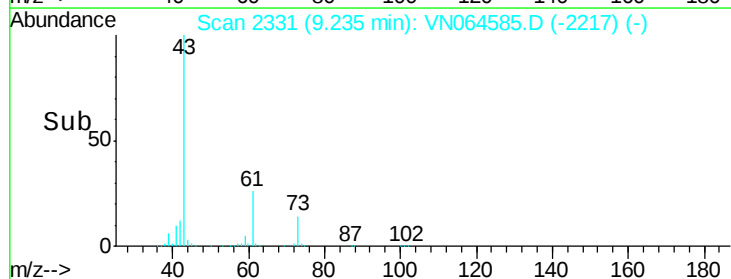
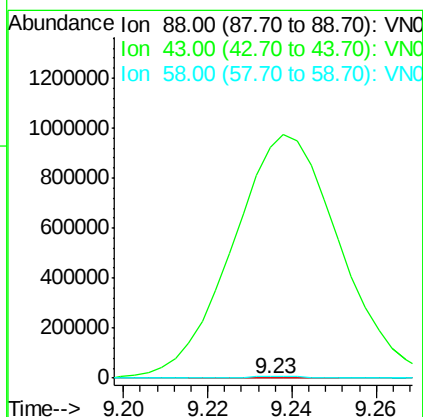
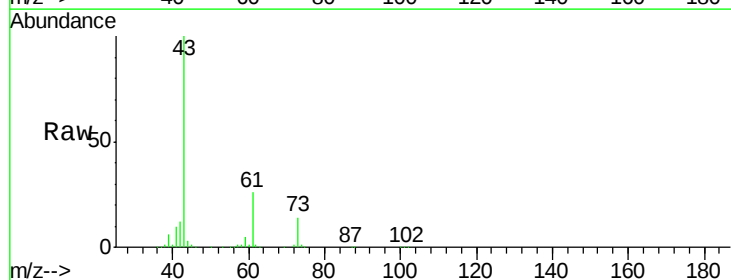
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-1-4-BOTTOM

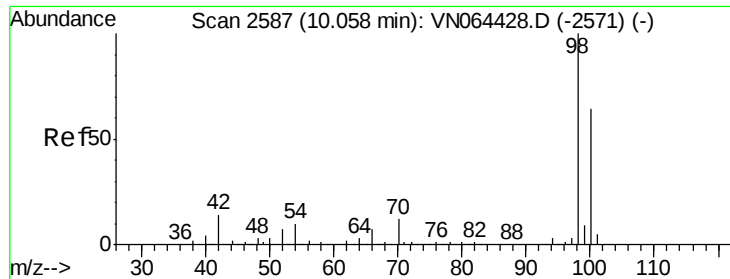
Tot Ion: 41 Resp: 7208
Ion Ratio Lower Upper
41 100
69 0.0 60.4 90.6#
39 0.0 51.2 76.8#



#49
1,4-Dioxane
Concen: 5.535 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN064585.D
Acq: 12 Nov 2020 16:49

Tgt Ion: 88 Resp: 318
Ion Ratio Lower Upper
88 100
43 550442.8 31.0 46.6#
58 3118.2 58.4 87.6#





#50

Toluene-d8

Concen: 48.899 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064585.D

Acq: 12 Nov 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

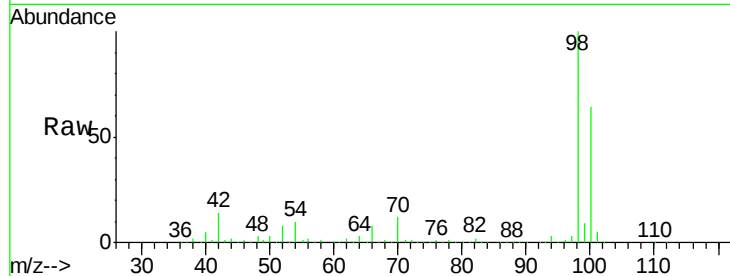
TRANSFORMER-1-4-BOTTOM

Tot Ion: 98 Resp: 649737

Ion Ratio Lower Upper

98 100

100 63.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

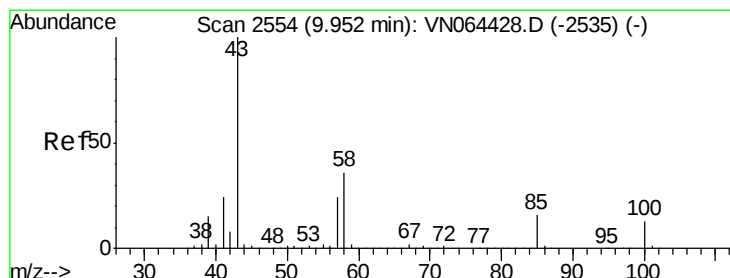
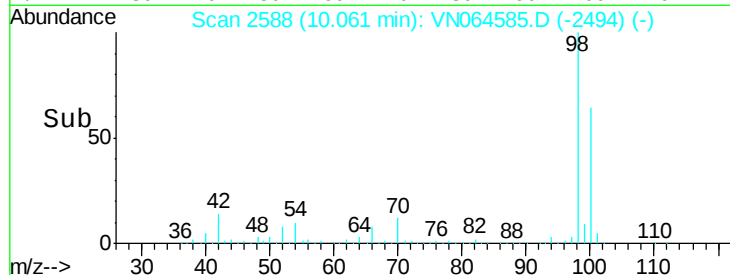
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.953 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064585.D

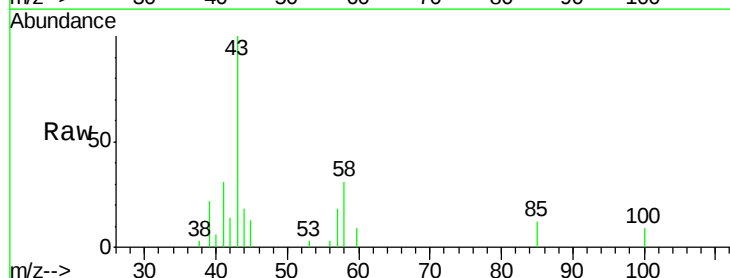
Acq: 12 Nov 2020 16:49

Tgt Ion: 43 Resp: 9845

Ion Ratio Lower Upper

43 100

58 33.6 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

12000

10000

8000

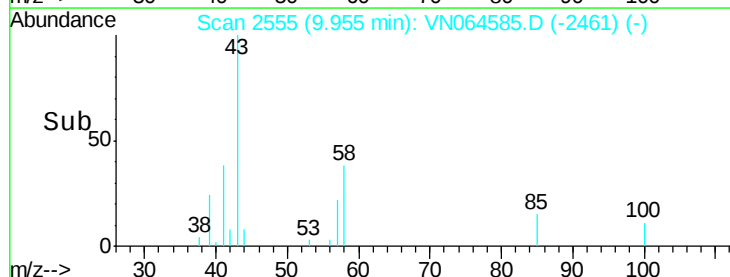
6000

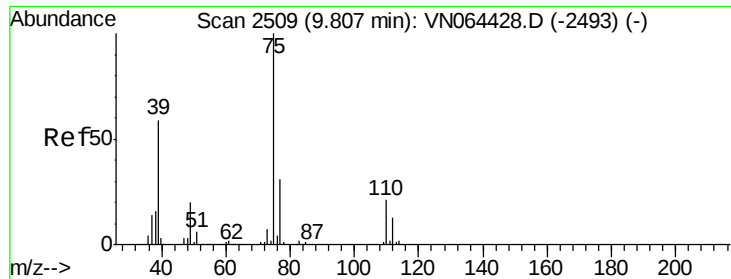
4000

2000

0

Time-->



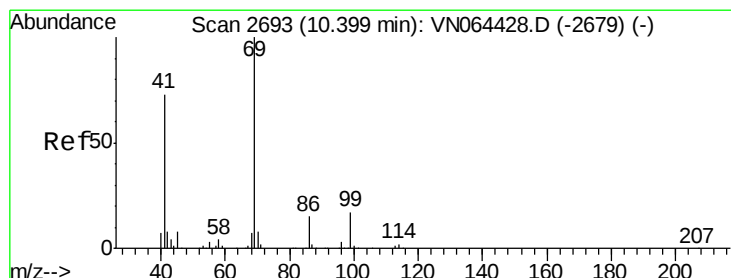
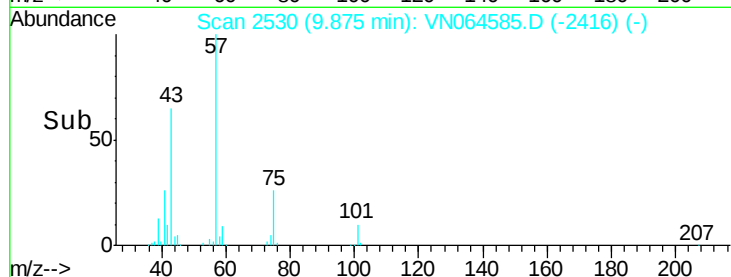
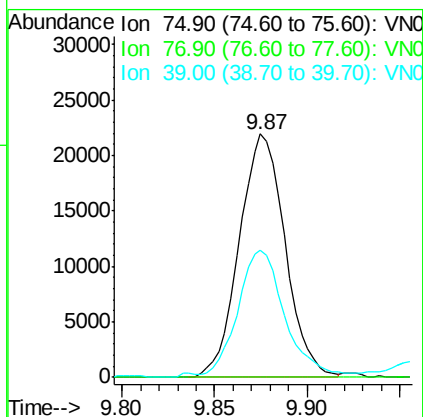
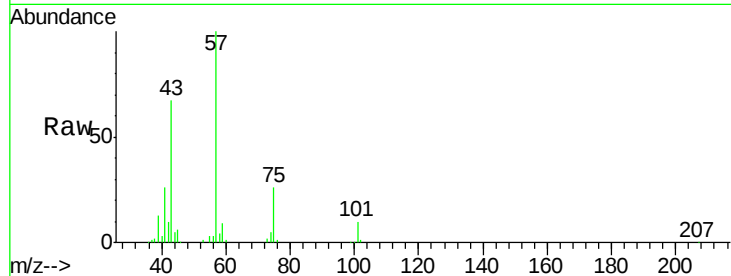


#54

cis-1,3-Dichloropropene
 Concen: 5.632 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064585.D
 Acq: 12 Nov 2020 16:49

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-1-4-BOTTOM

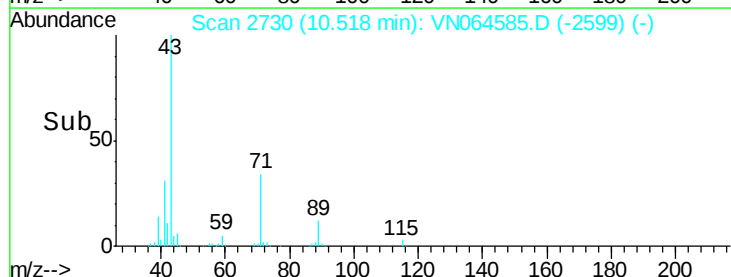
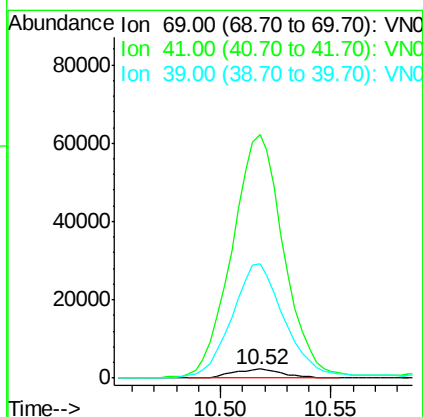
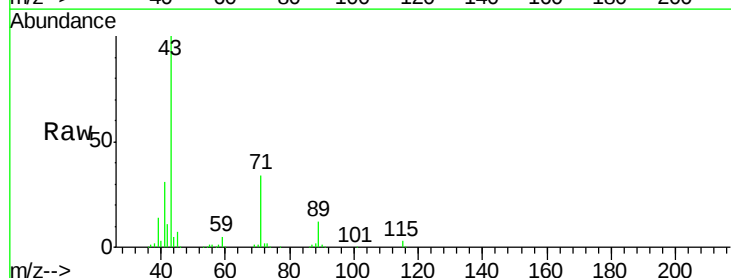
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.9	37.3#
39	50.4	47.1	70.7

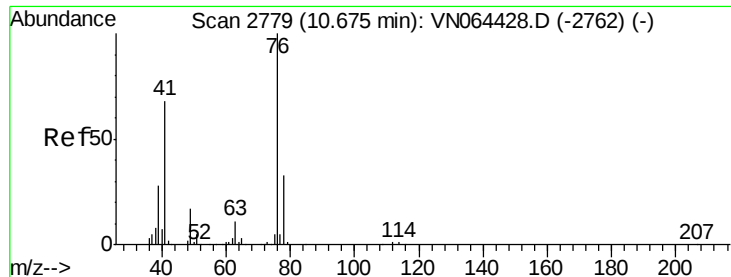


#56

Ethyl methacrylate
 Concen: 2.433 ug/l
 RT: 10.52 min Scan# 2730
 Delta R.T. 0.12 min
 Lab File: VN064585.D
 Acq: 12 Nov 2020 16:49

Tgt Ion	Ratio	Lower	Upper
69	100		
41	2698.5	59.3	88.9#
39	1311.7	35.4	53.0#

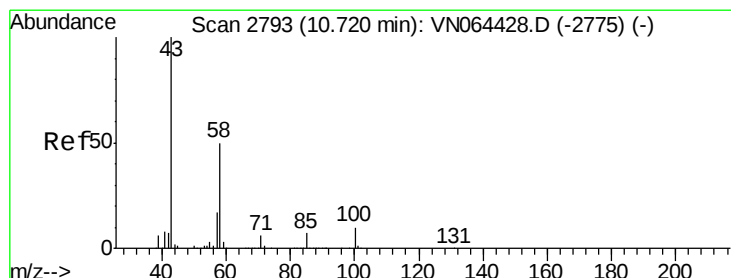
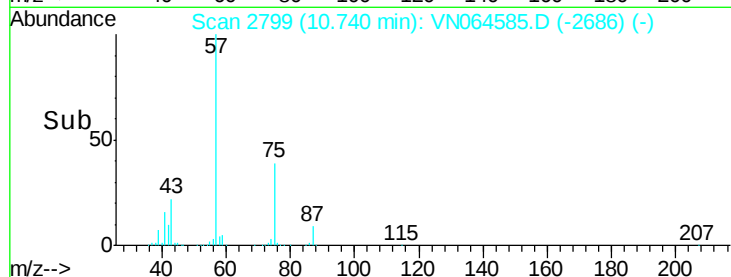
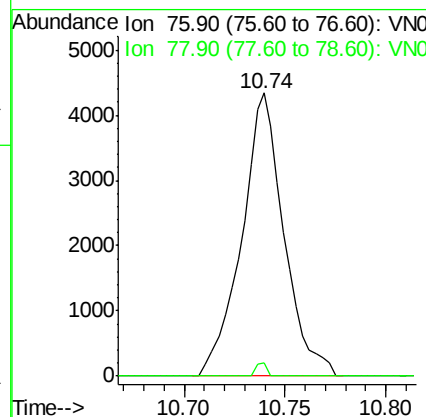
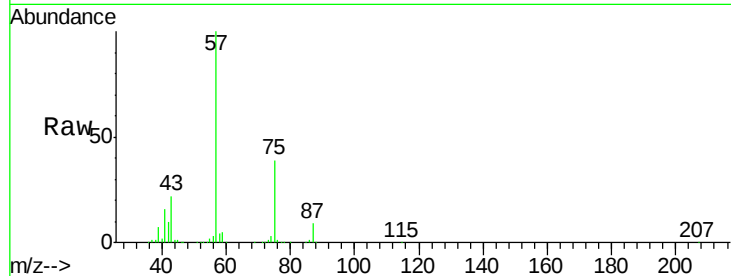




#57
 1,3-Dichloropropane
 Concen: 0.974 ug/l
 RT: 10.74 min Scan# 2799
 Delta R.T. 0.06 min
 Lab File: VN064585.D
 Acq: 12 Nov 2020 16:49

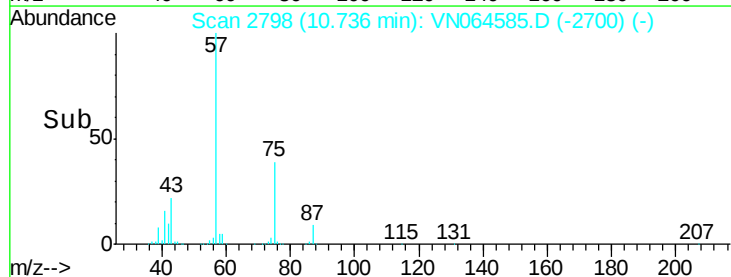
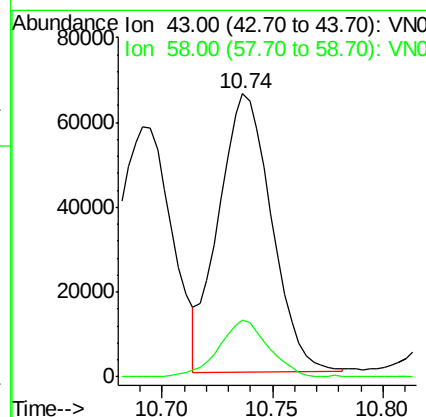
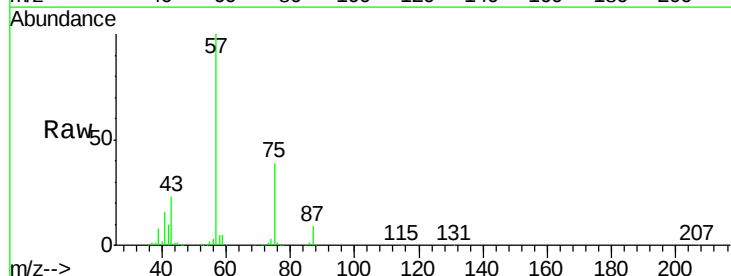
Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-1-4-BOTTOM

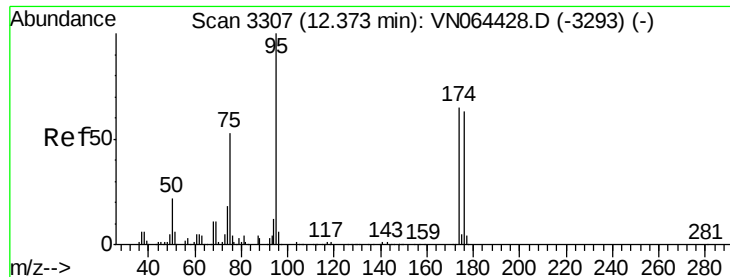
Tot Ion: 76 Resp: 6340
 Ion Ratio Lower Upper
 76 100
 78 1.2 25.8 38.6#



#59
 2-Hexanone
 Concen: 30.188 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064585.D
 Acq: 12 Nov 2020 16:49

Tgt Ion: 43 Resp: 109299
 Ion Ratio Lower Upper
 43 100
 58 19.2 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 47.931 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064585.D

Acq: 12 Nov 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-4-BOTTOM

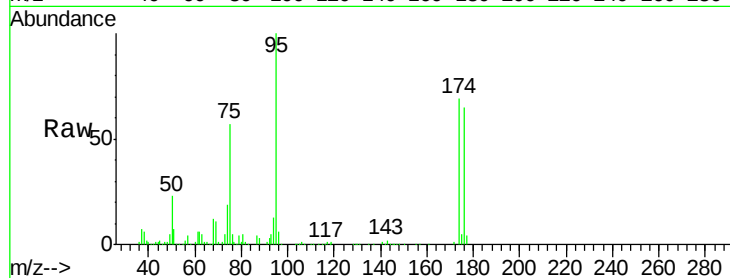
Tot Ion: 95 Resp: 240859

Ion Ratio Lower Upper

95 100

174 70.4 0.0 132.6

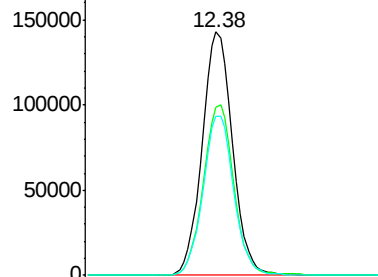
176 66.4 0.0 129.2



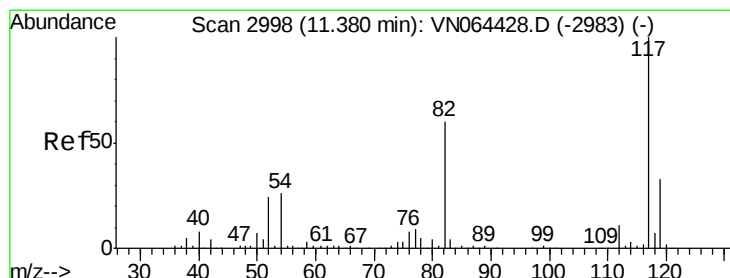
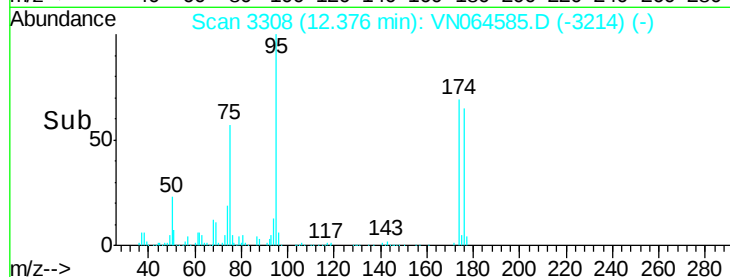
Abundance Ion 94.90 (94.60 to 95.60): VN064428.D (-3293) (-)

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

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



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064585.D

Acq: 12 Nov 2020 16:49

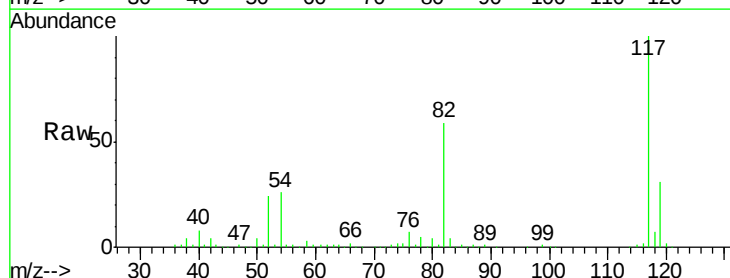
Tgt Ion: 117 Resp: 542847

Ion Ratio Lower Upper

117 100

82 59.0 48.1 72.1

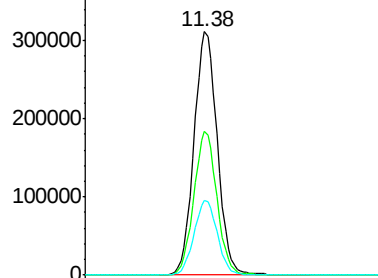
119 30.7 26.2 39.4



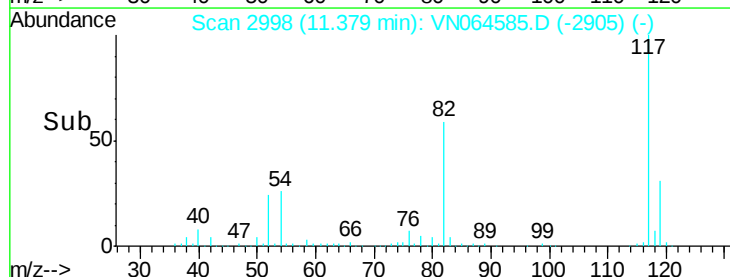
Abundance Ion 116.90 (116.60 to 117.60): VN064428.D (-2983) (-)

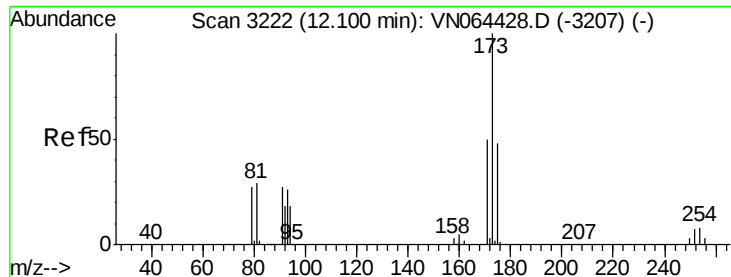
Ion 82.00 (81.70 to 82.70): VN064428.D (-2983) (-)

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



Time-->





#71

Bromoform

Concen: 1.324 ug/l

RT: 12.36 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN064585.D

Acq: 12 Nov 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-4-BOTTOM

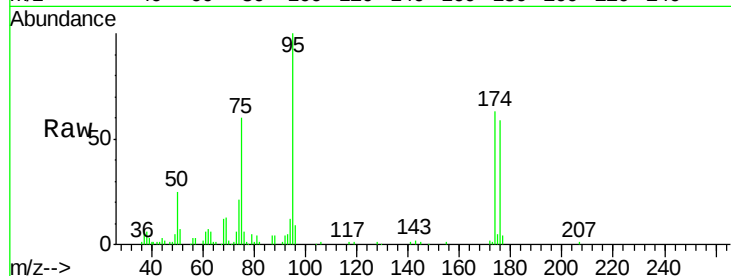
Tot Ion:173 Resp: 168

Ion Ratio Lower Upper

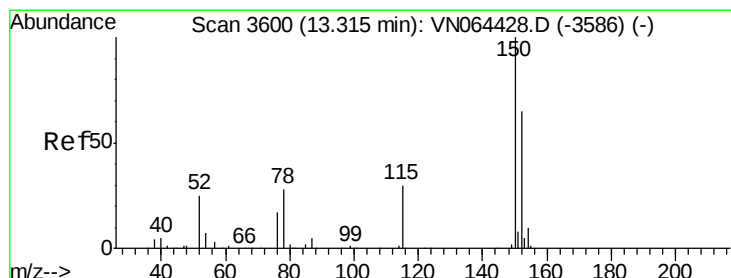
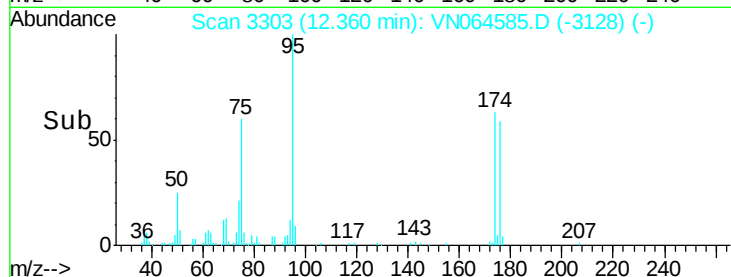
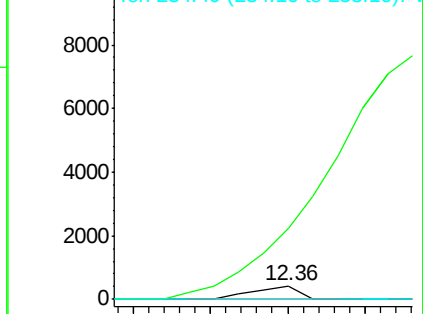
173 100

175 6236.9 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: VN064585.D

Acq: 12 Nov 2020 16:49

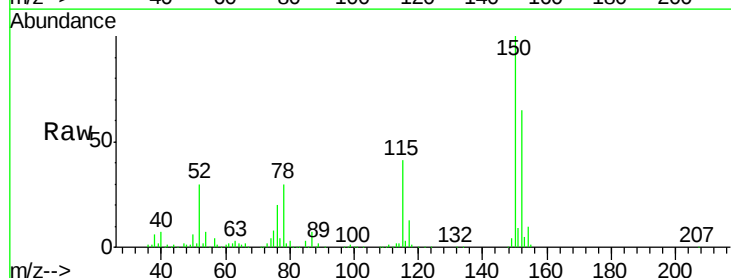
Tgt Ion:152 Resp: 192563

Ion Ratio Lower Upper

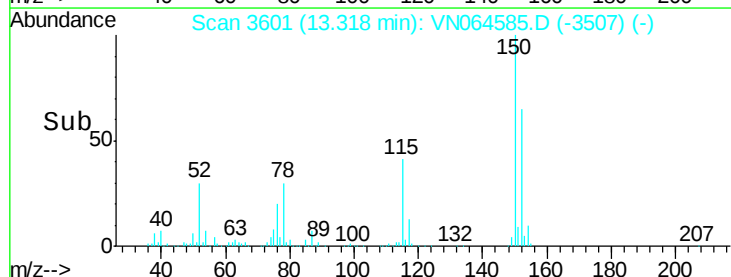
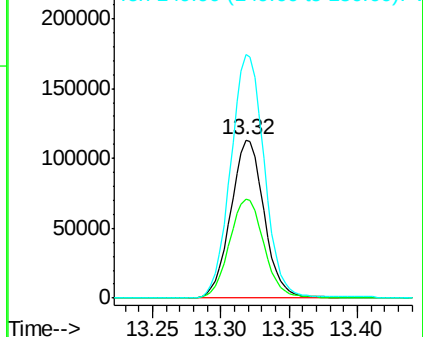
152 100

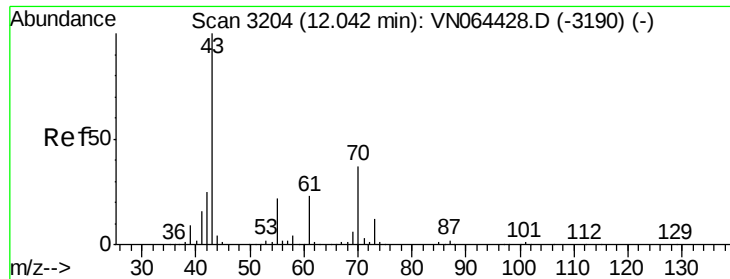
115 65.0 32.0 96.0

150 155.1 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-amvl acetate

Concen: 1.821 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064585.D

Acq: 12 Nov 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-4-BOTTOM

Tot Ion: 43 Resp: 4614

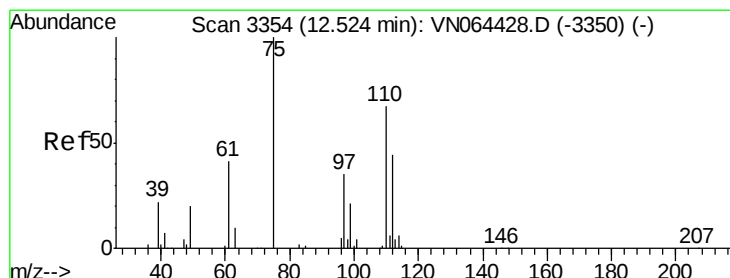
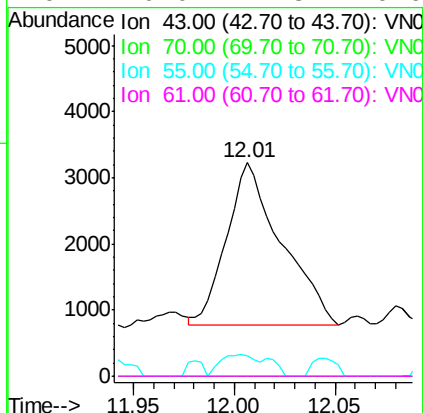
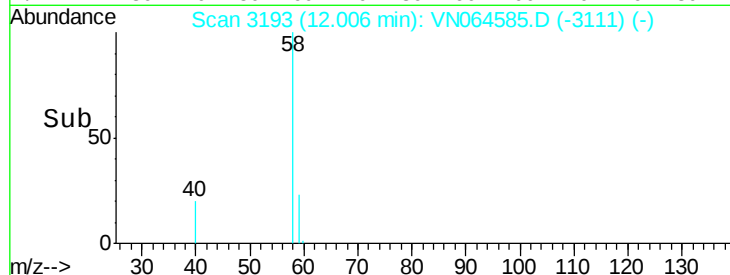
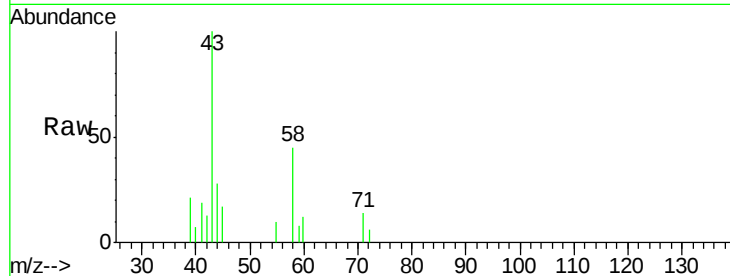
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 8.9 18.4 27.6#

61 0.0 17.8 26.6#



#76

1,2,3-Trichloropropane

Concen: 29.452 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064585.D

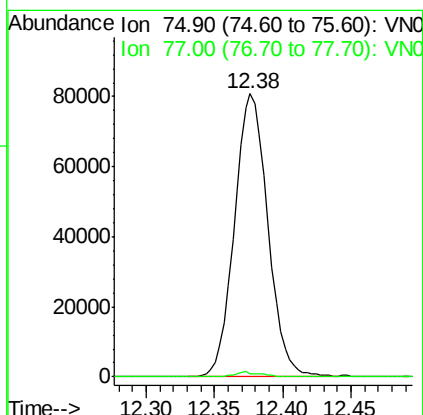
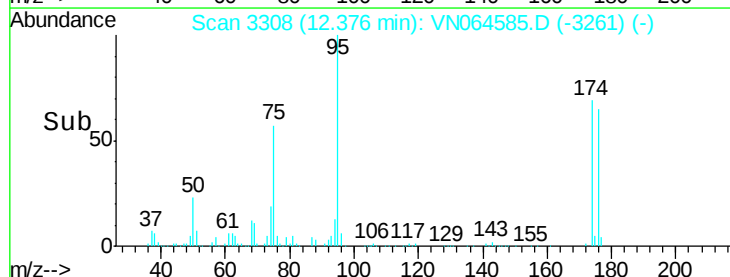
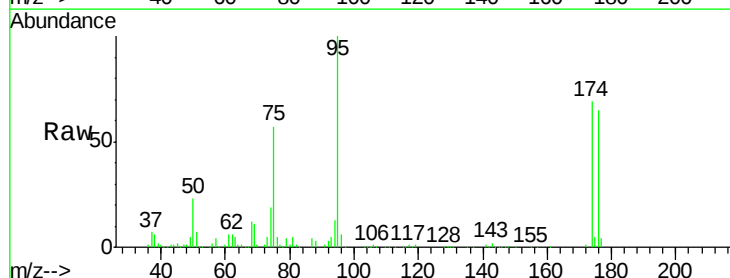
Acq: 12 Nov 2020 16:49

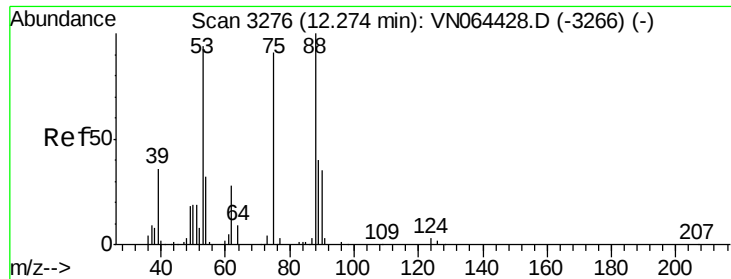
Tgt Ion: 75 Resp: 137414

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 82.234 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064585.D

Acq: 12 Nov 2020 16:49

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-4-BOTTOM

Tot Ion: 75 Resp: 137414

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.0 36.3 54.5#

