

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064589.D
 Acq On : 12 Nov 2020 18:27
 Operator : JC/MD
 Sample : L4701-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-5-2-BOTTOM

Quant Time: Nov 13 02:53:42 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	228468	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	493901	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	525160	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	179697	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	235865	59.27	ug/l	0.00
Spiked Amount			Recovery	=	118.54%	
35) Dibromofluoromethane	7.55	113	173975	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
50) Toluene-d8	10.06	98	648851	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
62) 4-Bromofluorobenzene	12.38	95	234237	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	

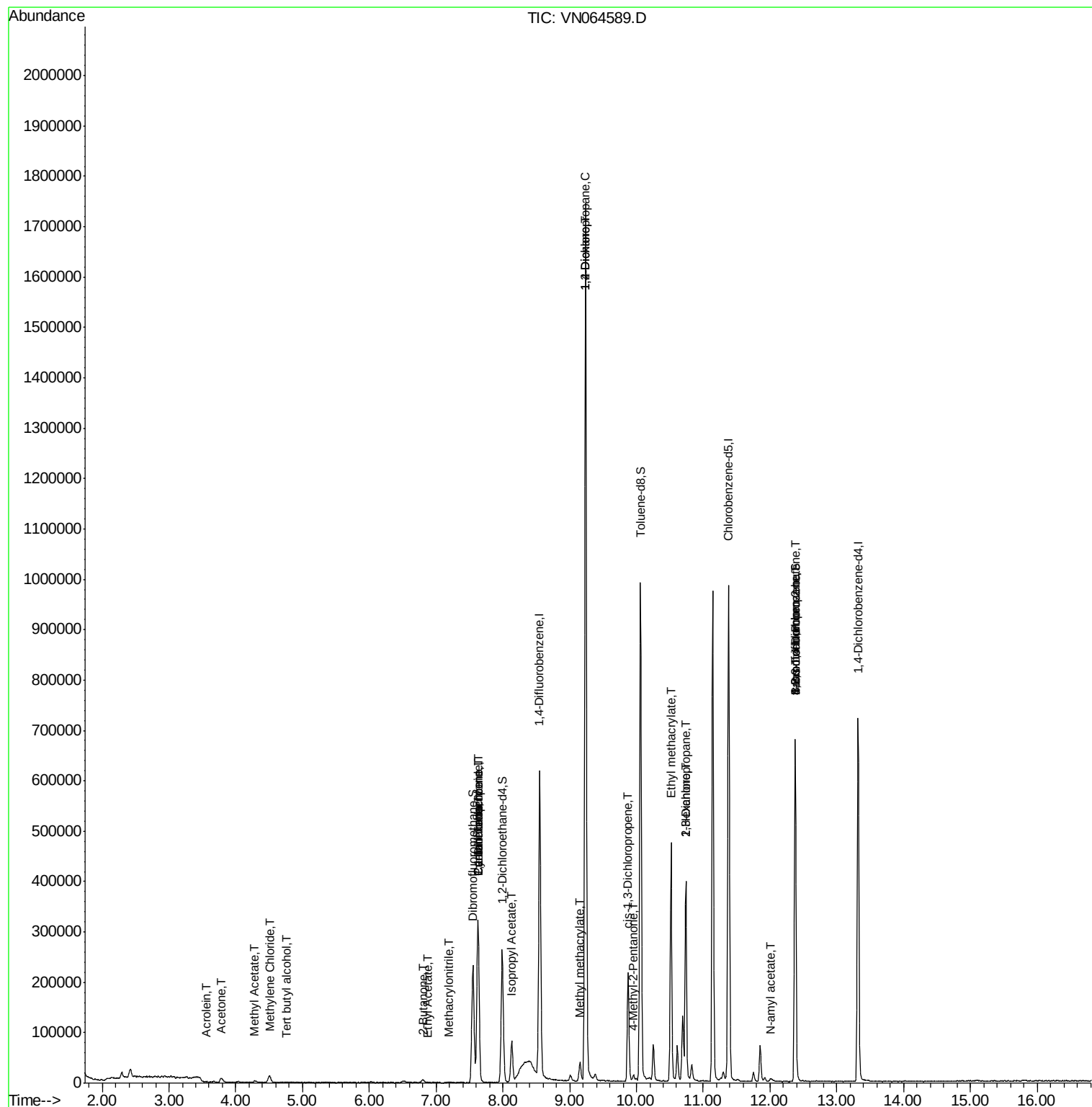
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	375	0.854	ug/l #	71
13) Acrolein	3.57	56	154	0.566	ug/l #	65
16) Acetone	3.79	43	14550	9.598	ug/l #	81
18) Methyl Acetate	4.29	43	6386	2.143	ug/l	98
20) Methylene Chloride	4.50	84	9463	3.146	ug/l #	88
25) 2-Butanone	6.80	43	7917	4.099	ug/l	91
31) Cyclohexane	7.62	56	7214	1.491	ug/l #	37
36) 1,1-Dichloropropene	7.63	75	22948	4.398	ug/l #	51
37) Ethyl Acetate	6.87	43	426	0.842	ug/l #	71
38) Carbon Tetrachloride	7.63	117	26572	4.765	ug/l #	17
41) Methacrylonitrile	7.17	41	643	0.278	ug/l #	43
43) Isopropyl Acetate	8.13	43	96891	11.459	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1980	0.484	ug/l #	45
48) Methyl methacrylate	9.14	41	6900	1.617	ug/l #	15
49) 1,4-Dioxane	9.23	88	132	2.349	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	9045	1.834	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	34185	5.208	ug/l #	73
56) Ethyl methacrylate	10.52	69	3548	2.411	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3716	0.584	ug/l #	42
59) 2-Hexanone	10.74	43	62374	19.290	ug/l #	61
71) Bromoform	12.37	173	773	1.509	ug/l #	1
74) N-amyl acetate	12.01	43	4556	1.856	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	132275	30.381	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	132275	84.827	ug/l #	8

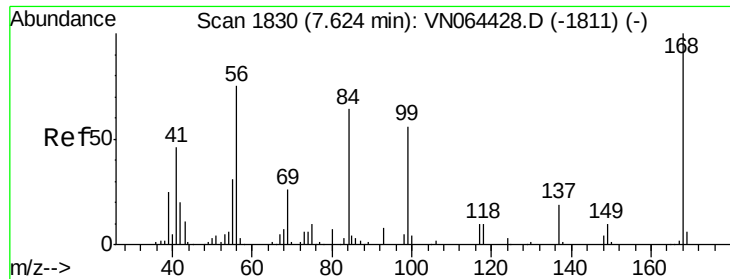
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 04 12:09:03 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064589.D

Acq: 12 Nov 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

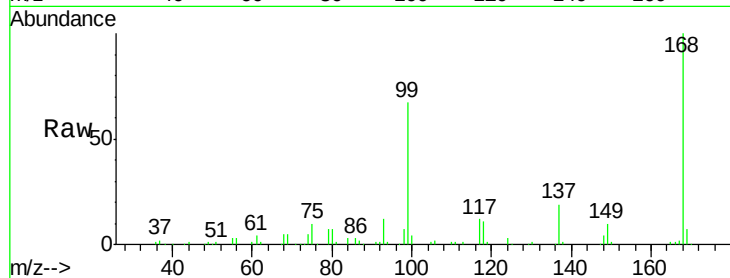
TRANSFORMER-5-2-BOTTOM

Tot Ion:168 Resp: 228468

Ion Ratio Lower Upper

168 100

99 66.5 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

100000

80000

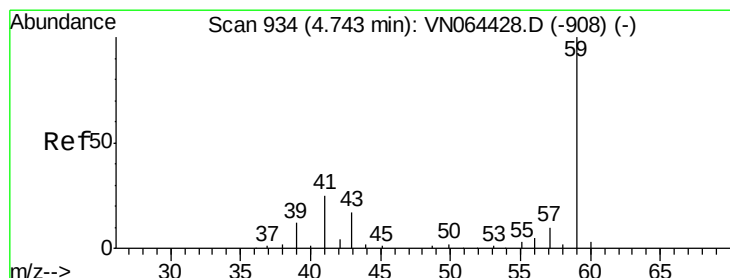
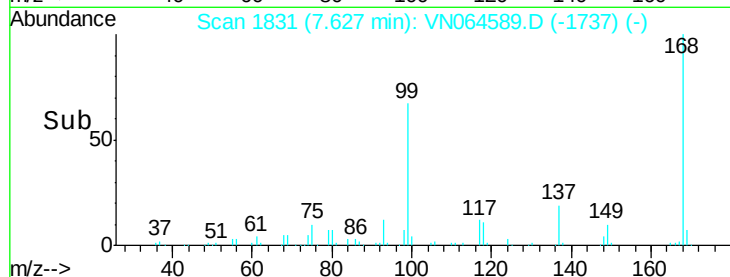
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 0.854 ug/l

RT: 4.75 min Scan# 935

Delta R.T. 0.00 min

Lab File: VN064589.D

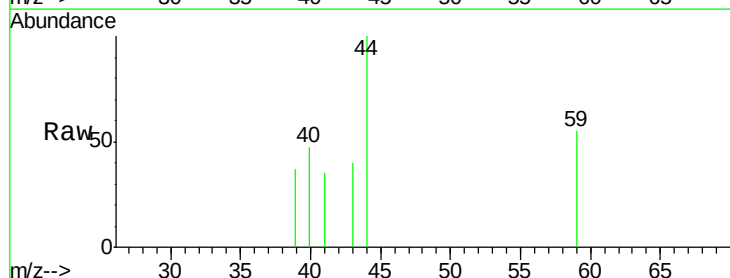
Acq: 12 Nov 2020 18:27

Tgt Ion: 59 Resp: 375

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.75

400

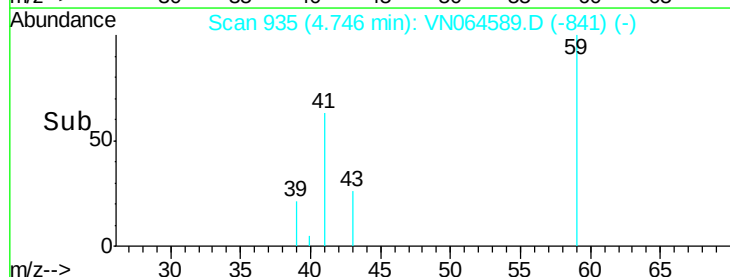
300

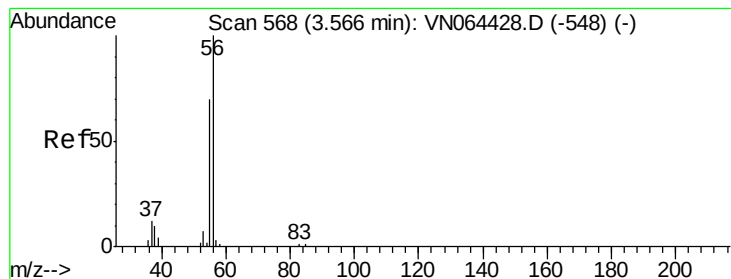
200

100

0

Time--> 4.72 4.74 4.76





#13

Acrolein

Concen: 0.566 ug/l

RT: 3.57 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN064589.D

Acq: 12 Nov 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

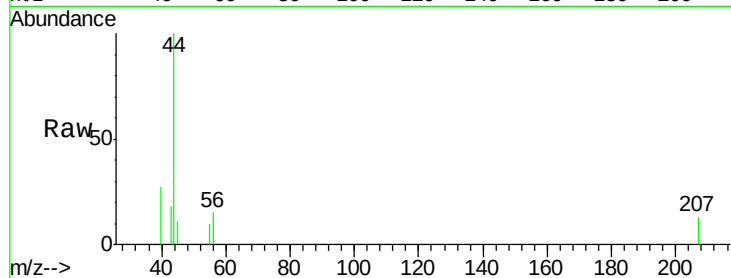
TRANSFORMER-5-2-BOTTOM

Tot Ion: 56 Resp: 154

Ion Ratio Lower Upper

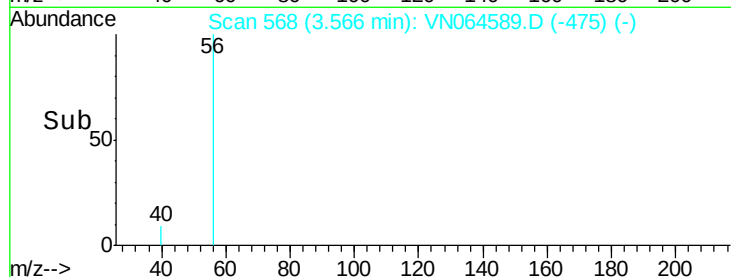
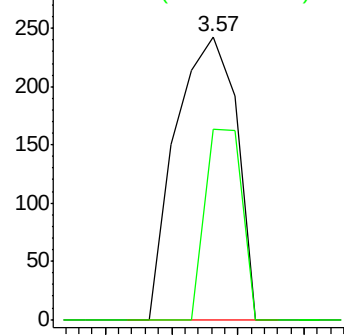
56 100

55 40.9 55.9 83.9#

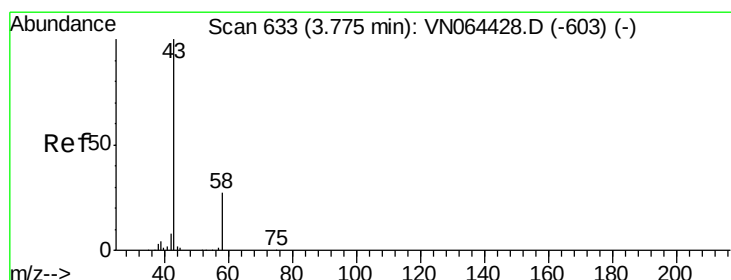


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#16

Acetone

Concen: 9.598 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN064589.D

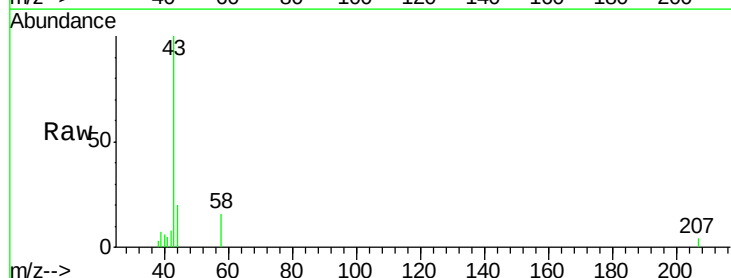
Acq: 12 Nov 2020 18:27

Tgt Ion: 43 Resp: 14550

Ion Ratio Lower Upper

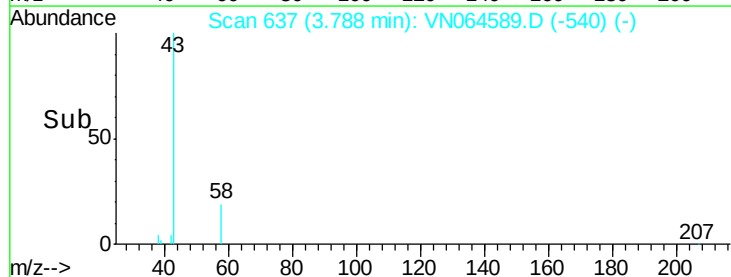
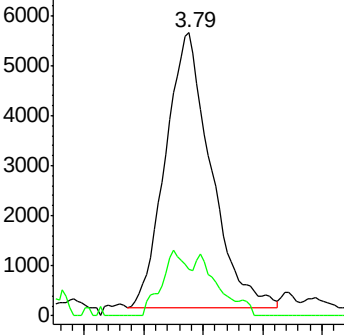
43 100

58 16.7 21.4 32.0#

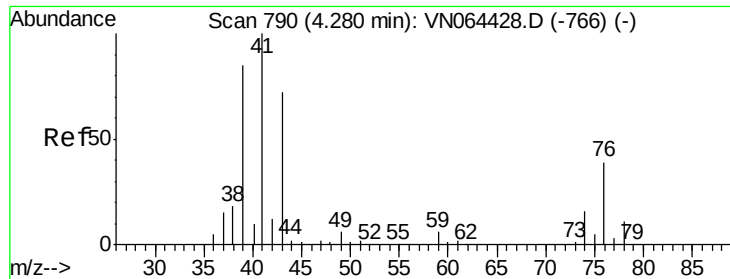


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



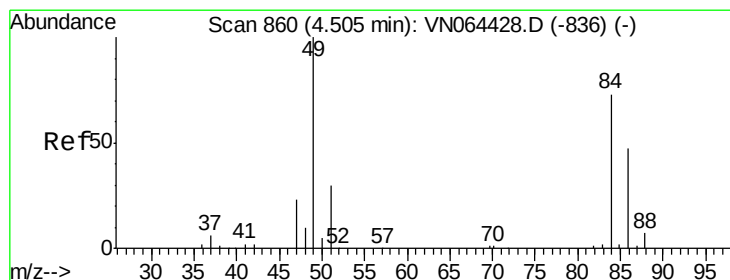
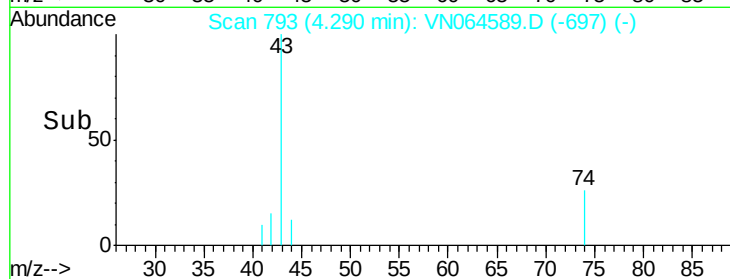
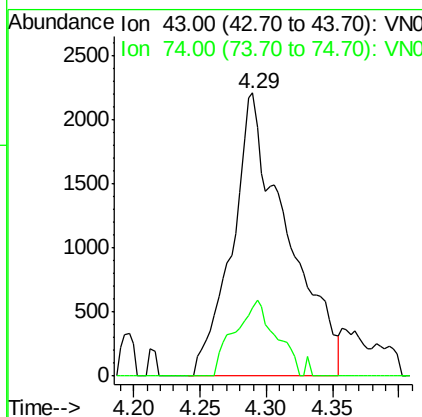
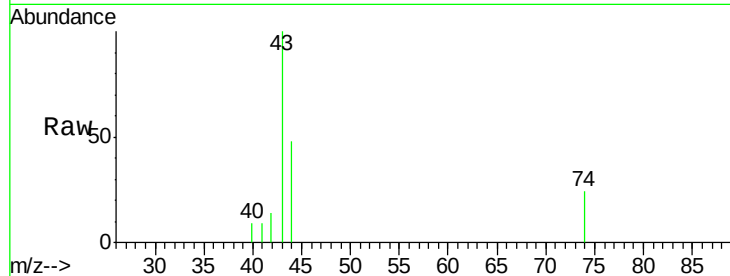
Time-->



#18
Methyl Acetate
Concen: 2.143 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

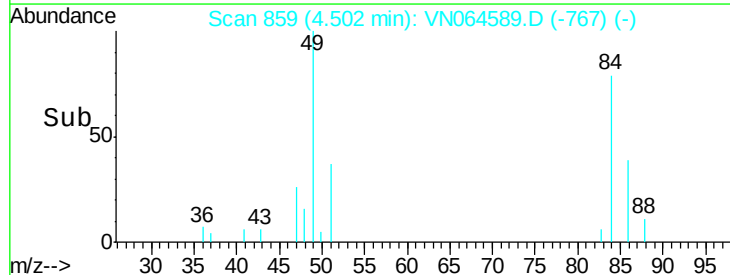
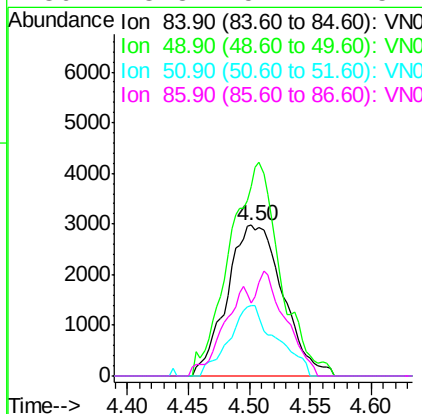
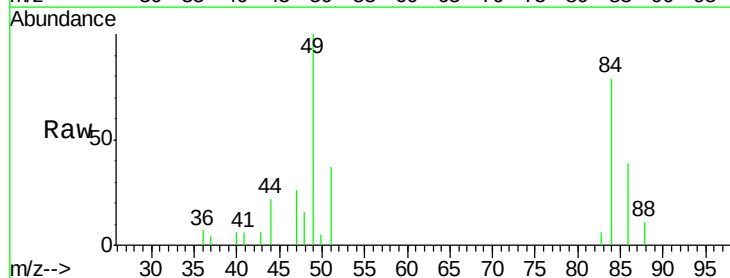
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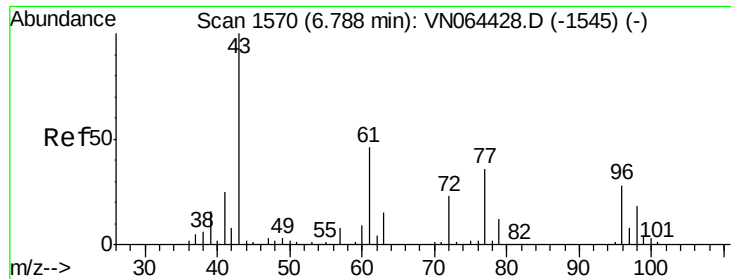
Tot Ion: 43 Resp: 6386
Ion Ratio Lower Upper
43 100
74 20.1 17.0 25.4



#20
Methylene Chloride
Concen: 3.146 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

Tgt Ion: 84 Resp: 9463
Ion Ratio Lower Upper
84 100
49 125.9 110.1 165.1
51 46.4 33.6 50.4
86 48.8 52.1 78.1#

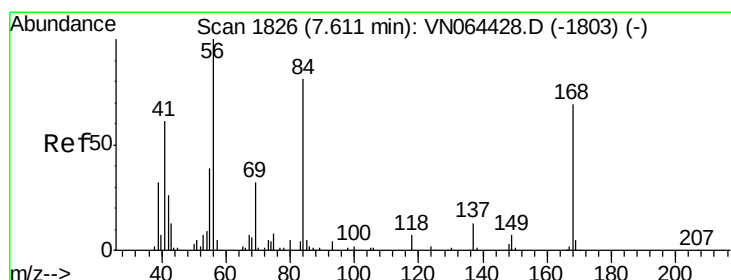
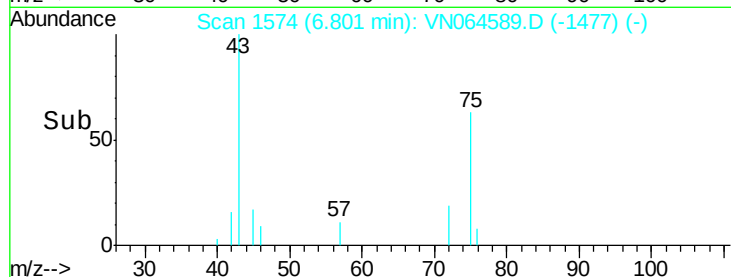
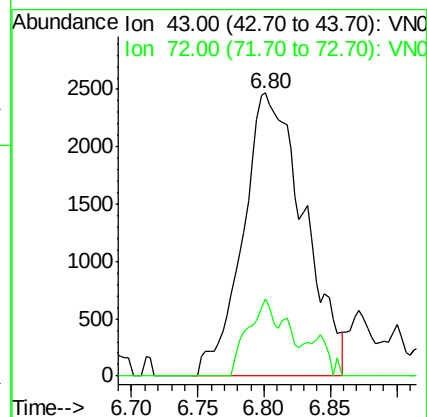
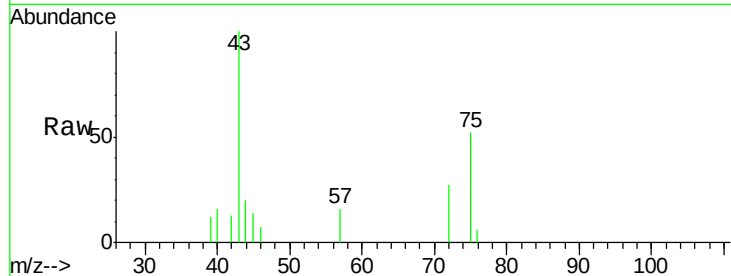




#25
2-Butanone
Concen: 4.099 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

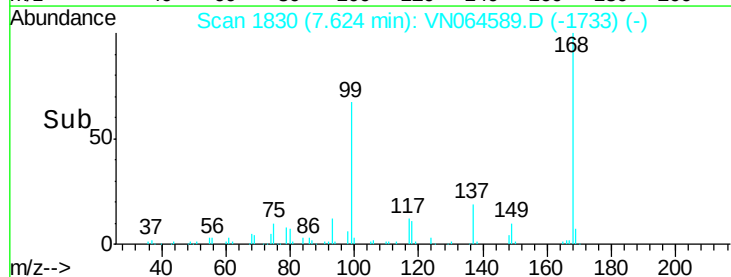
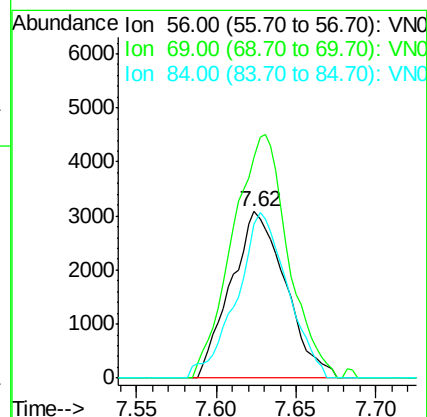
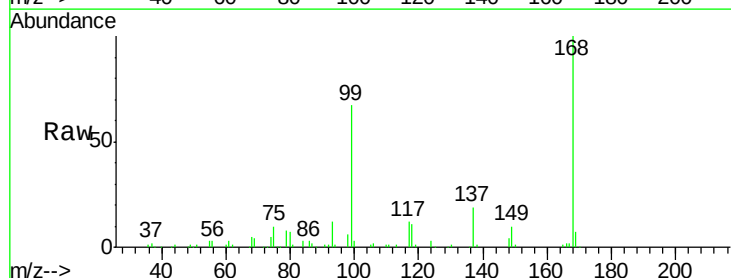
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-2-BOTTOM

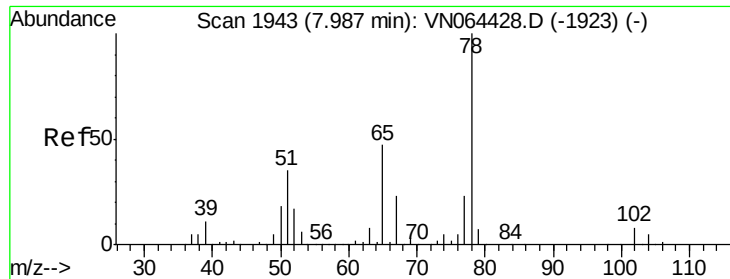
Tot Ion: 43 Resp: 7917
Ion Ratio Lower Upper
43 100
72 27.5 18.5 27.7



#31
Cyclohexane
Concen: 1.491 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

Tgt Ion: 56 Resp: 7214
Ion Ratio Lower Upper
56 100
69 133.0 25.6 38.4#
84 92.5 63.0 94.6

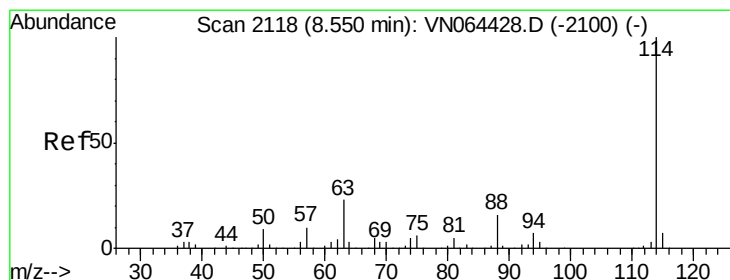
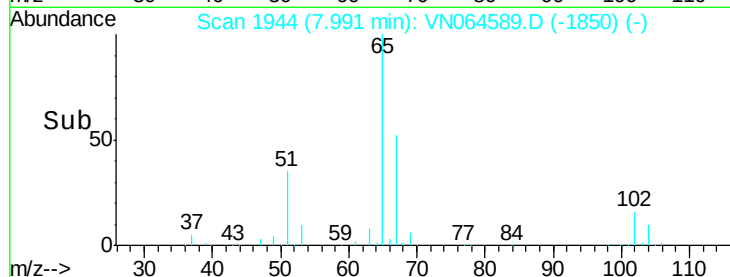
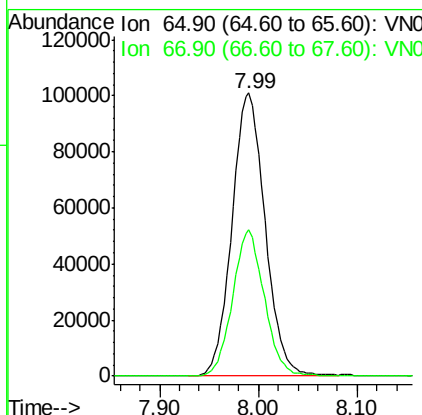
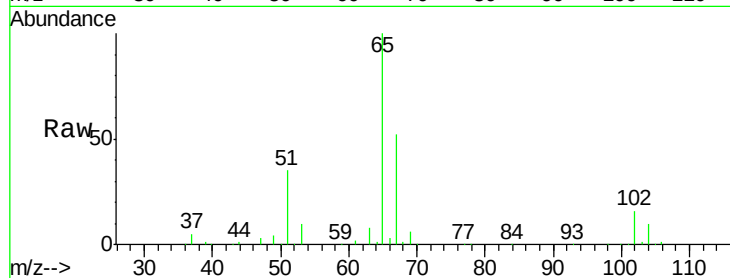




#33
 1,2-Dichloroethane-d4
 Concen: 59.269 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064589.D
 Acq: 12 Nov 2020 18:27

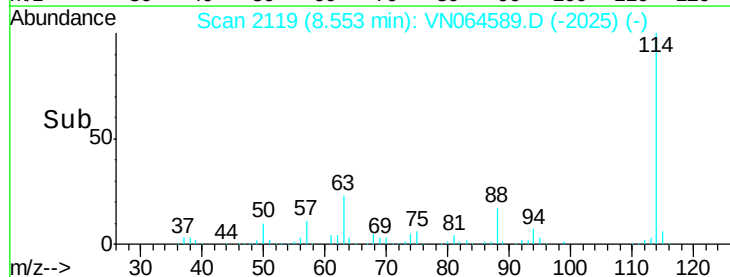
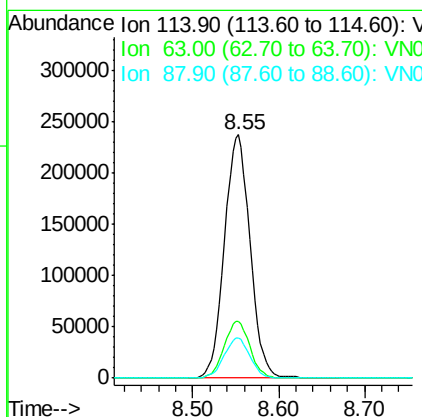
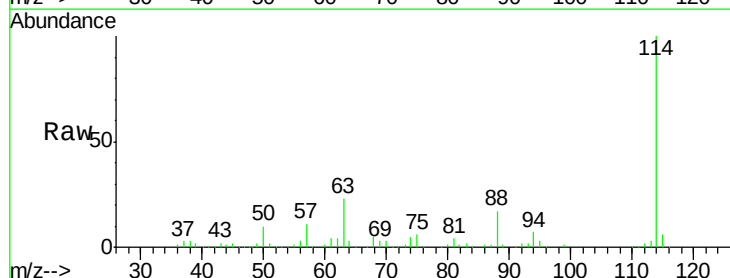
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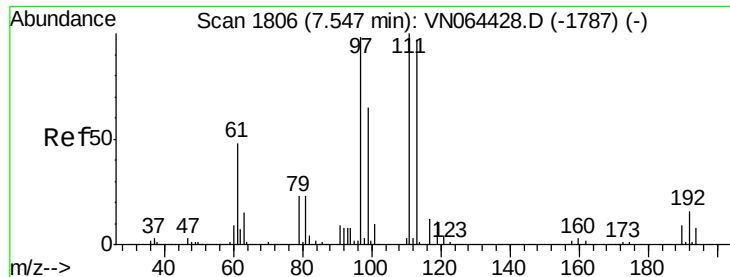
Tot Ion: 65 Resp: 235865
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064589.D
 Acq: 12 Nov 2020 18:27

Tgt Ion: 114 Resp: 493901
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 45.6
 88 16.6 0.0 32.8

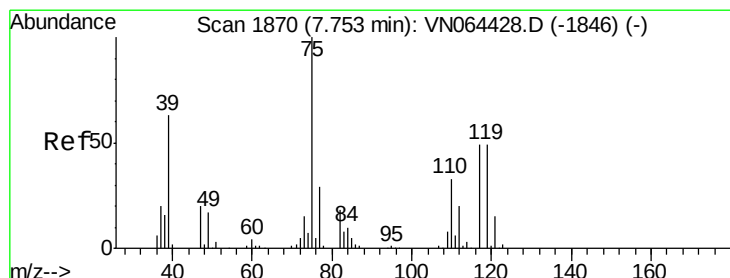
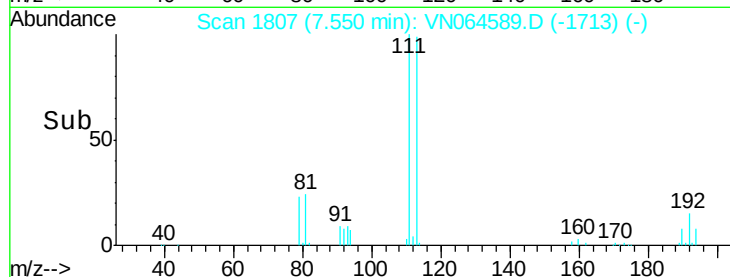
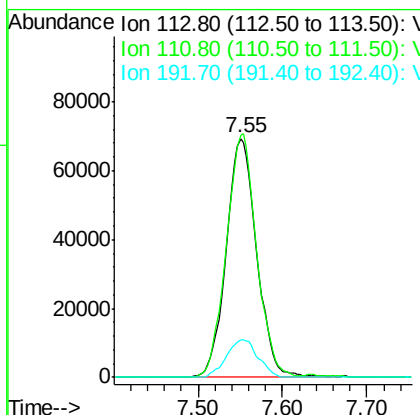
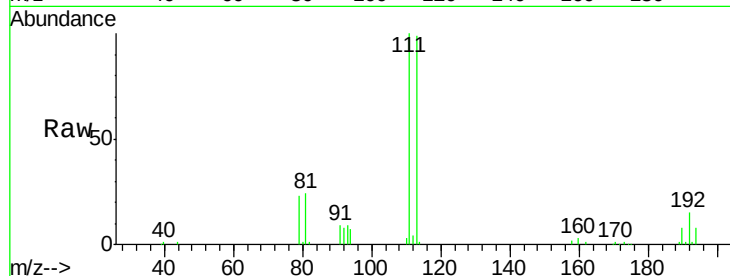




#35
 Dibromofluoromethane
 Concen: 51.735 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064589.D
 Acq: 12 Nov 2020 18:27

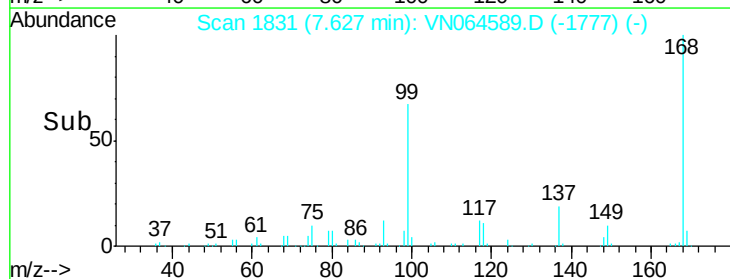
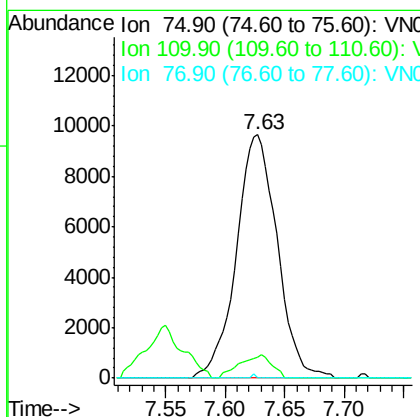
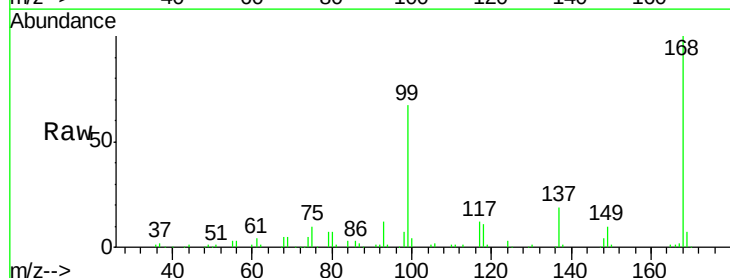
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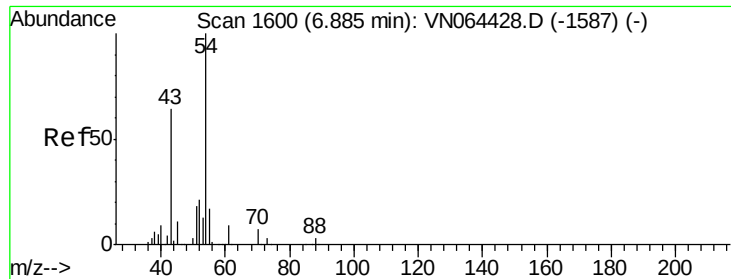
Tot Ion:113 Resp: 173975
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.1 121.7
 192 16.5 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.398 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064589.D
 Acq: 12 Nov 2020 18:27

Tgt Ion: 75 Resp: 22948
 Ion Ratio Lower Upper
 75 100
 110 7.5 16.0 48.0#
 77 0.1 24.0 36.0#

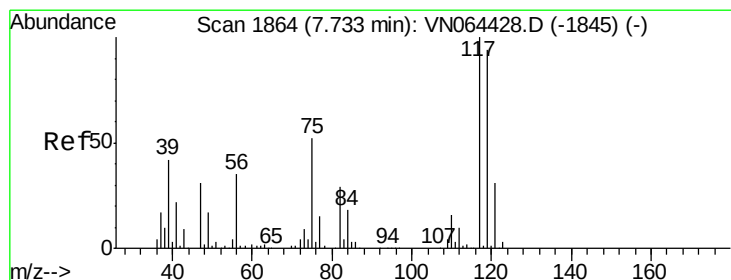
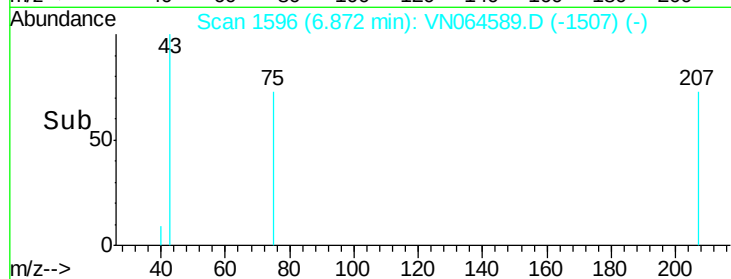
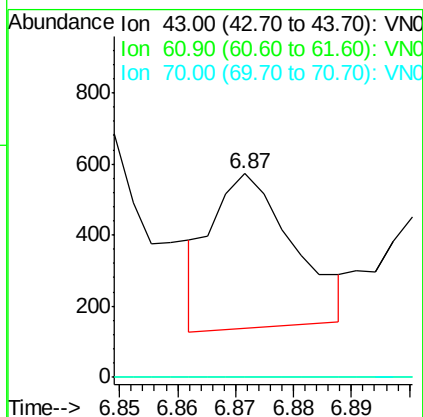
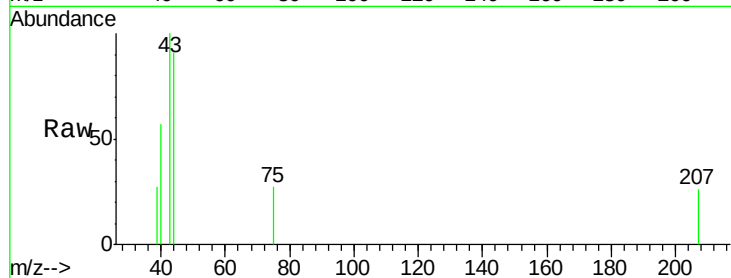




#37
Ethyl Acetate
Concen: 0.842 ug/l
RT: 6.87 min Scan# 1596
Delta R.T. -0.01 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

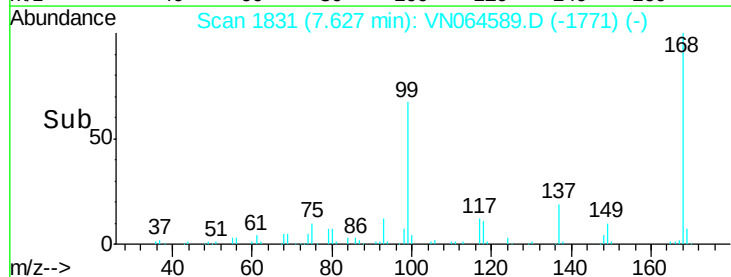
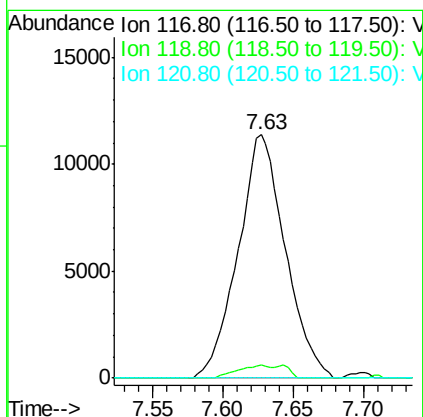
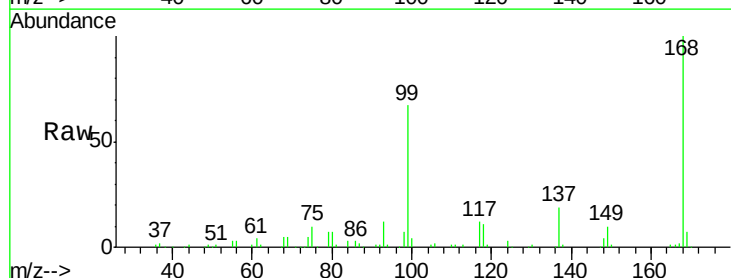
Instrument :
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ClientSampleId :
TRANSFORMER-5-2-BOTTOM

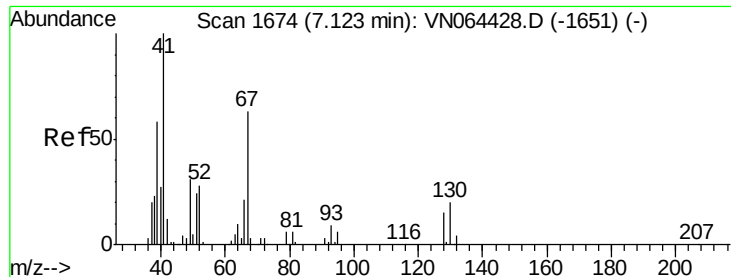
Tot Ion: 43 Resp: 426
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 4.765 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

Tgt Ion: 117 Resp: 26572
Ion Ratio Lower Upper
117 100
119 5.2 75.5 113.3#
121 0.0 24.4 36.6#

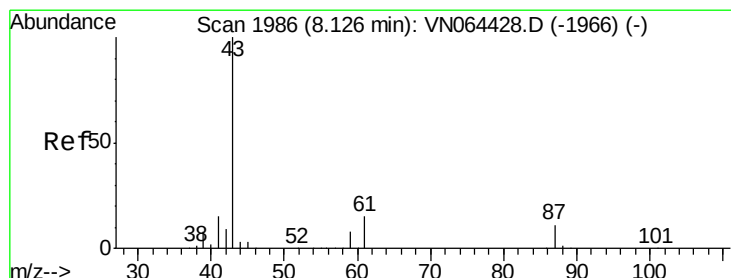
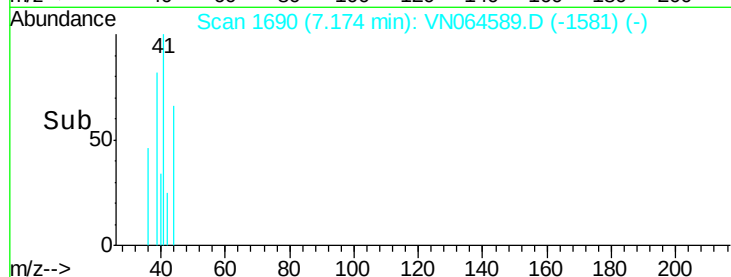
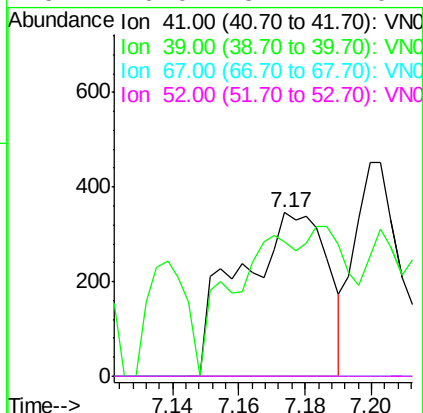
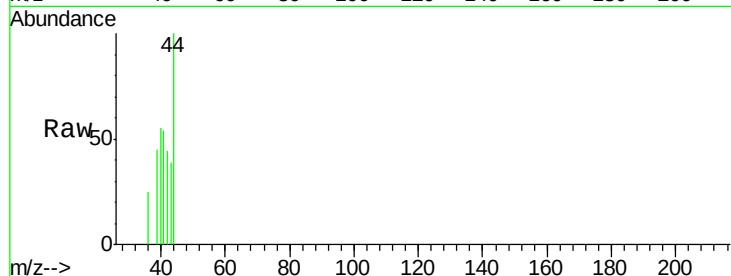




#41
Methacrylonitrile
Concen: 0.278 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.05 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

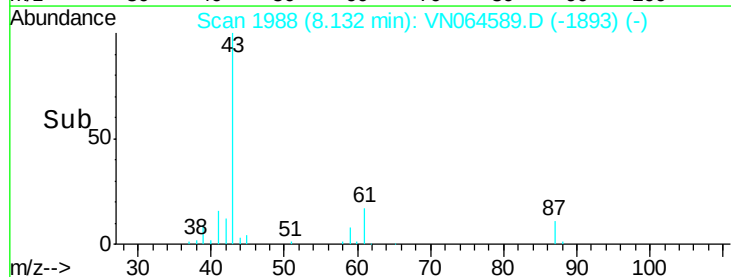
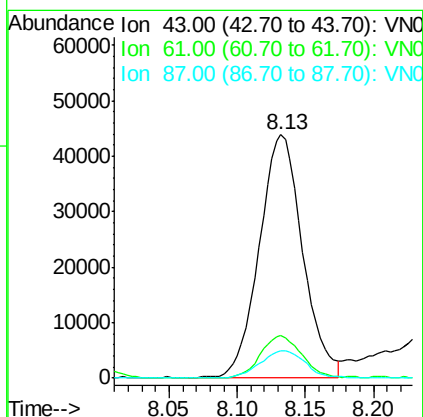
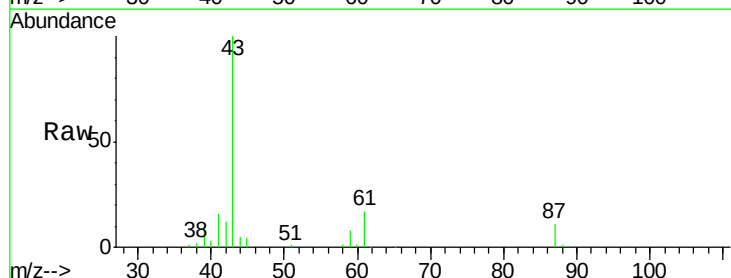
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-2-BOTTOM

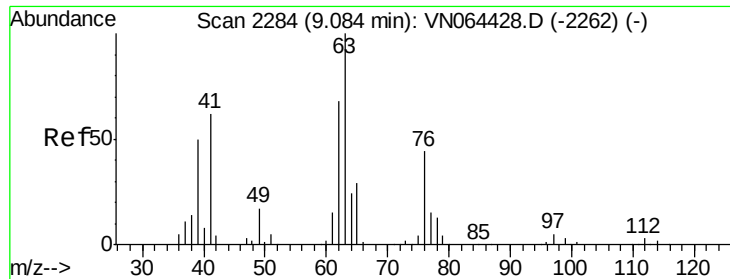
Tot Ion:	41	Resp:	643
Ion	Ratio	Lower	Upper
41	100		
39	63.3	50.0	75.0
67	0.0	68.3	102.5#
52	0.0	32.7	49.1#



#43
Isopropyl Acetate
Concen: 11.459 ug/l
RT: 8.13 min Scan# 1988
Delta R.T. 0.01 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

Tgt Ion:	43	Resp:	96891
Ion	Ratio	Lower	Upper
43	100		
61	16.7	14.0	21.0
87	11.6	9.1	13.7

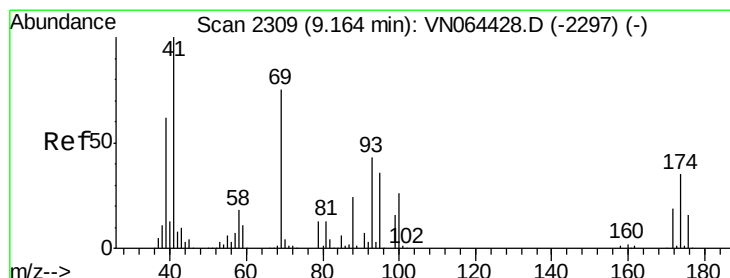
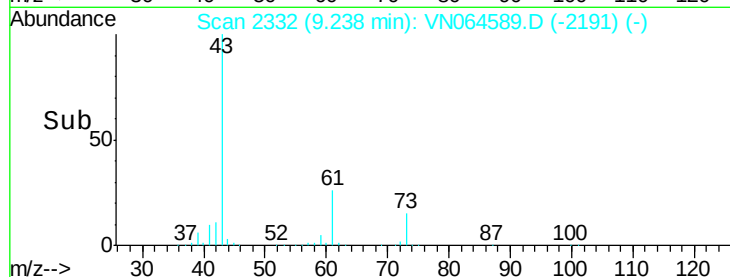
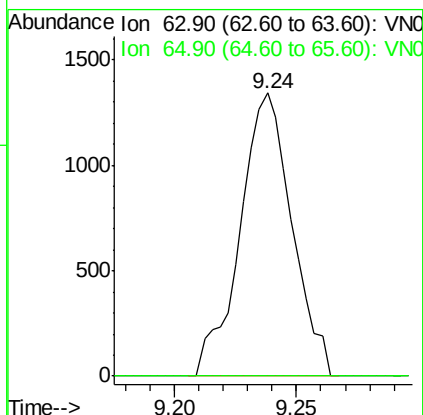
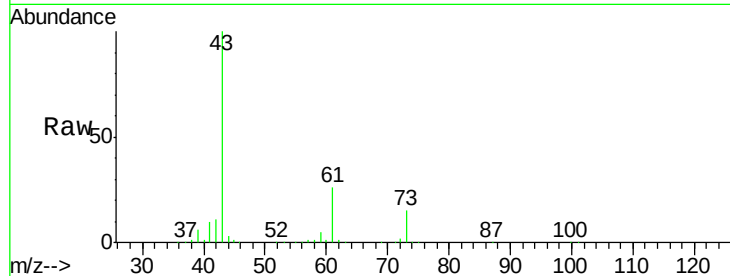




#45
 1,2-Dichloropropane
 Concen: 0.484 ug/l
 RT: 9.24 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN064589.D
 Acq: 12 Nov 2020 18:27

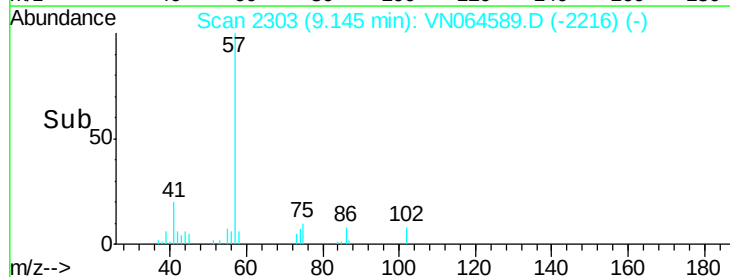
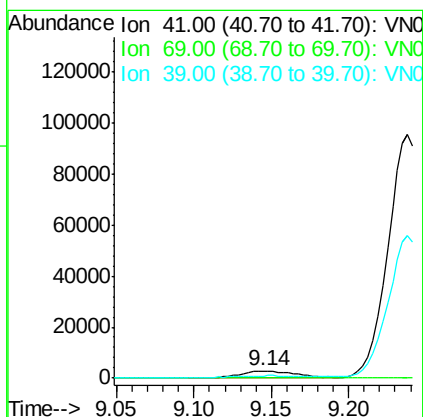
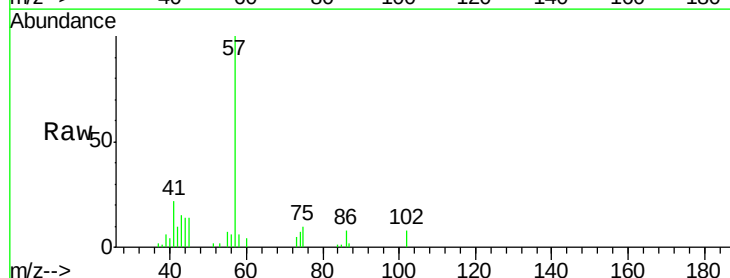
Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-5-2-BOTTOM

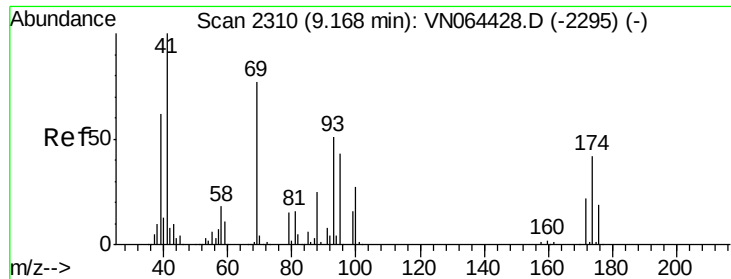
Tot Ion: 63 Resp: 1980
 Ion Ratio Lower Upper
 63 100
 65 0.0 23.6 35.4#



#48
 Methyl methacrylate
 Concen: 1.617 ug/l
 RT: 9.14 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN064589.D
 Acq: 12 Nov 2020 18:27

Tgt Ion: 41 Resp: 6900
 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: 2.349 ug/l

RT: 9.23 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN064589.D

Acq: 12 Nov 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-2-BOTTOM

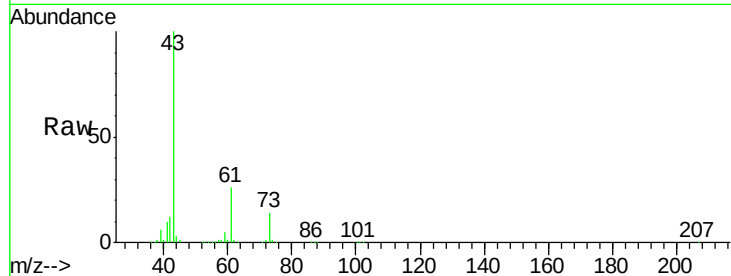
Tot Ion: 88 Resp: 132

Ion Ratio Lower Upper

88 100

43 1272693.2 31.0 46.6#

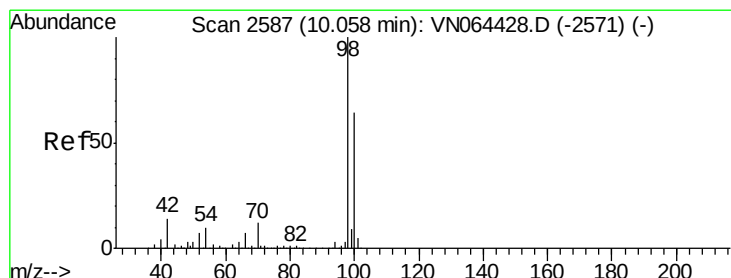
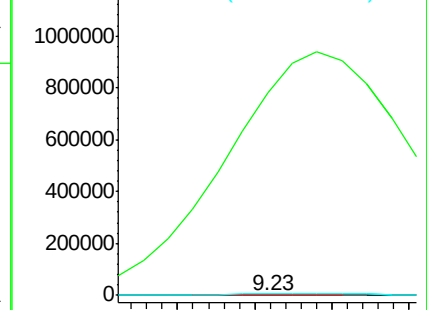
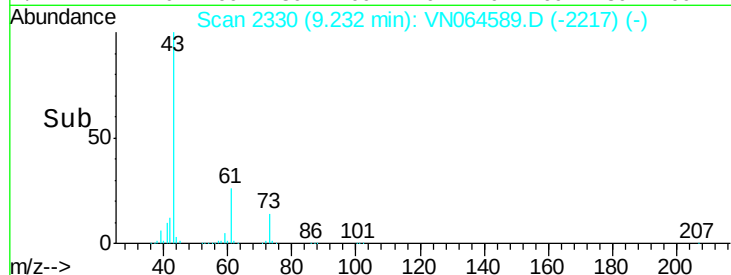
58 7393.9 58.4 87.6#



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) (-)



#50

Toluene-d8

Concen: 49.922 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064589.D

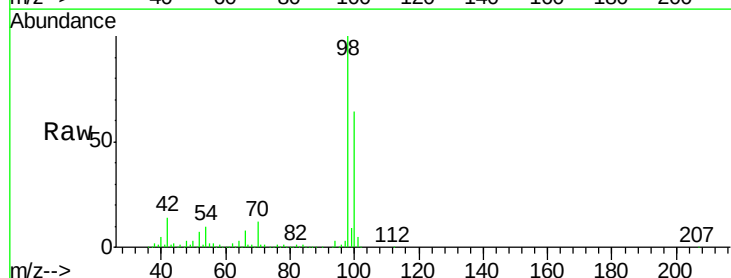
Acq: 12 Nov 2020 18:27

Tgt Ion: 98 Resp: 648851

Ion Ratio Lower Upper

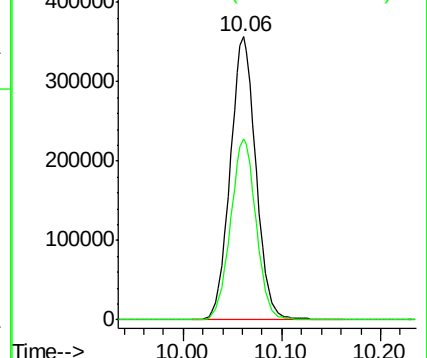
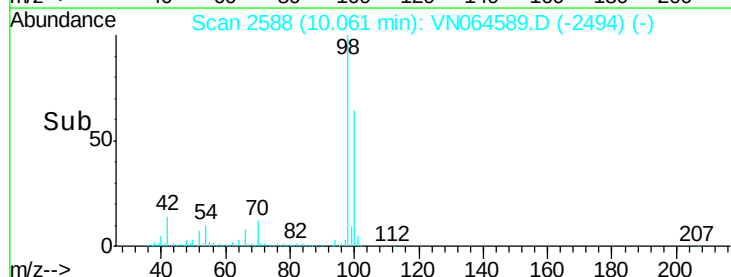
98 100

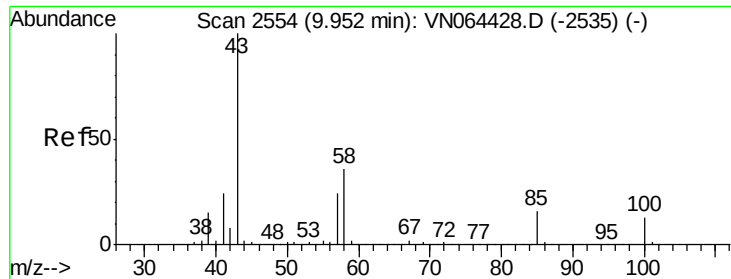
100 63.4 50.7 76.1



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

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

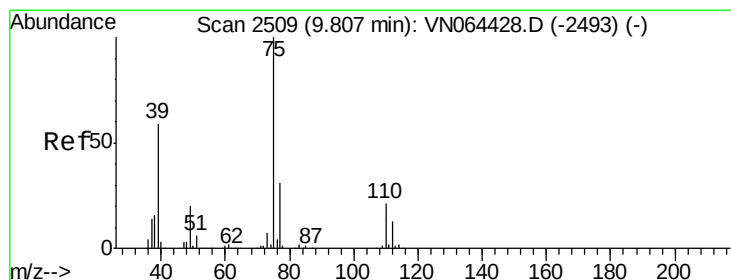
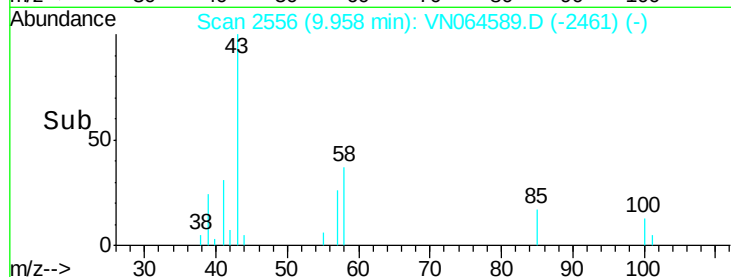
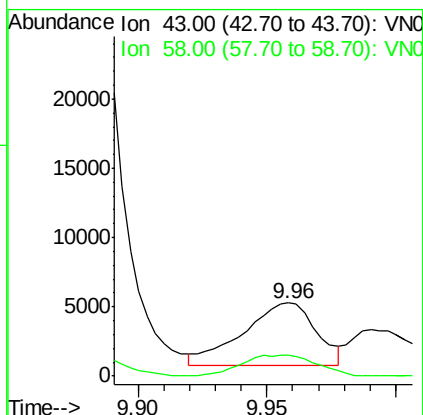
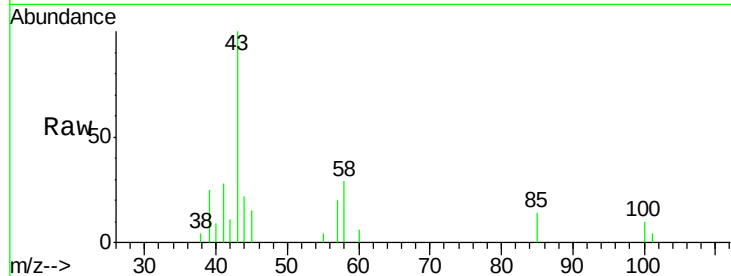




#51
 4-Methyl-2-Pentanone
 Concen: 1.834 ug/l
 RT: 9.96 min Scan# 2556
 Delta R.T. 0.01 min
 Lab File: VN064589.D
 Acq: 12 Nov 2020 18:27

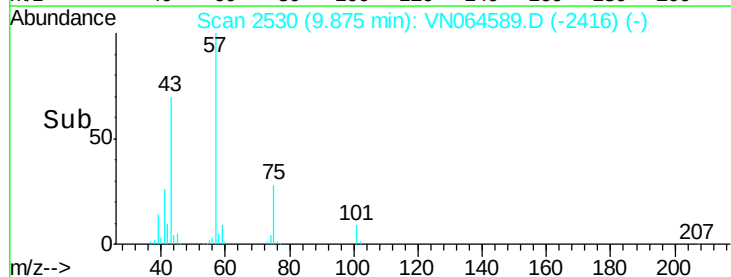
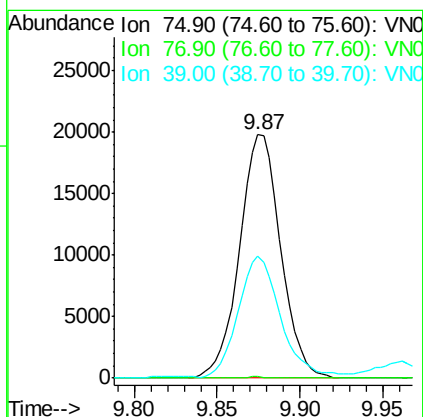
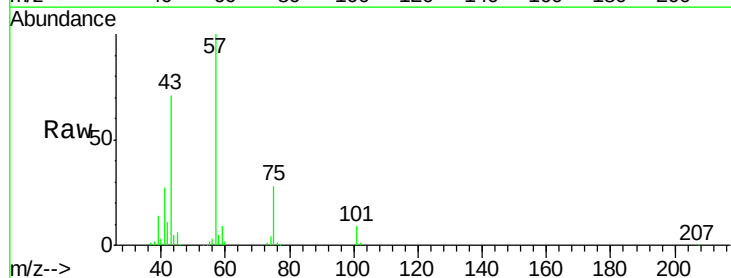
Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-5-2-BOTTOM

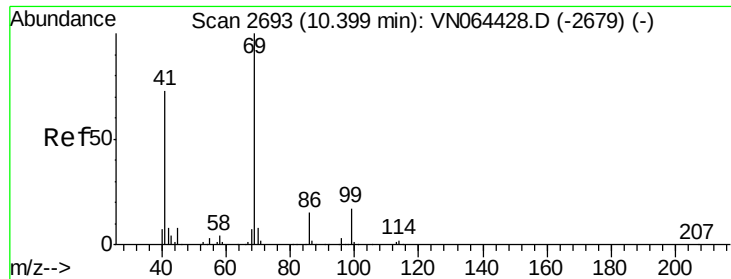
Tot Ion: 43 Resp: 9045
 Ion Ratio Lower Upper
 43 100
 58 34.1 28.4 42.6



#54
 cis-1,3-Dichloropropene
 Concen: 5.208 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064589.D
 Acq: 12 Nov 2020 18:27

Tgt Ion: 75 Resp: 34185
 Ion Ratio Lower Upper
 75 100
 77 0.9 24.9 37.3#
 39 49.3 47.1 70.7





#56

Ethyl methacrylate

Concen: 2.411 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064589.D

Acq: 12 Nov 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-2-BOTTOM

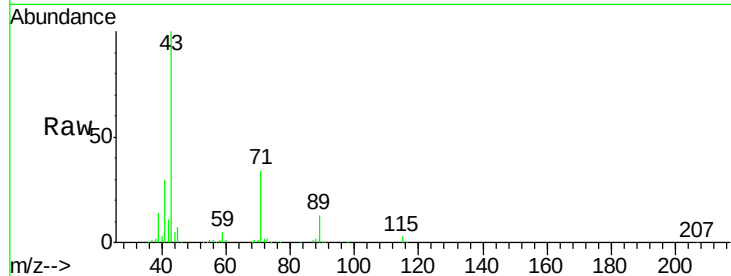
Tot Ion: 69 Resp: 3548

Ion Ratio Lower Upper

69 100

41 2806.4 59.3 88.9#

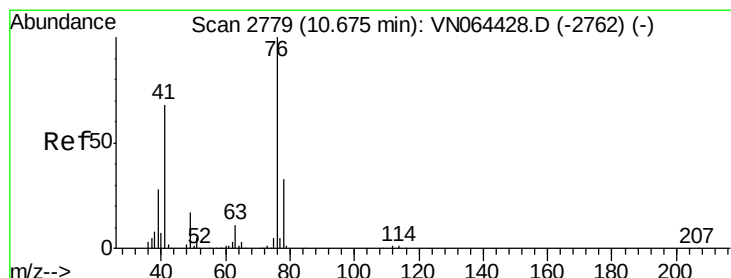
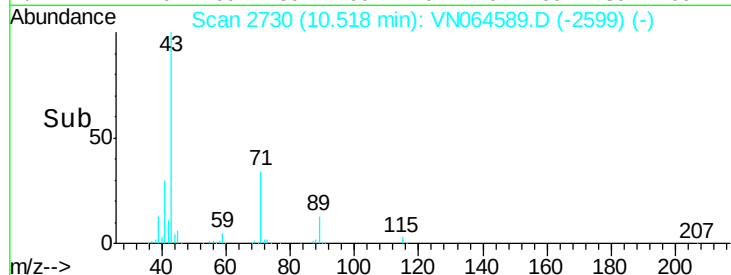
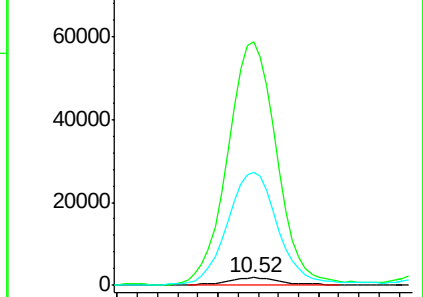
39 1359.2 35.4 53.0#



Abundance Ion 69.00 (68.70 to 69.70): VN064589.D (-2730) (-)

Ion 41.00 (40.70 to 41.70): VN064589.D (-2730) (-)

Ion 39.00 (38.70 to 39.70): VN064589.D (-2730) (-)



#57

1,3-Dichloropropane

Concen: 0.584 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN064589.D

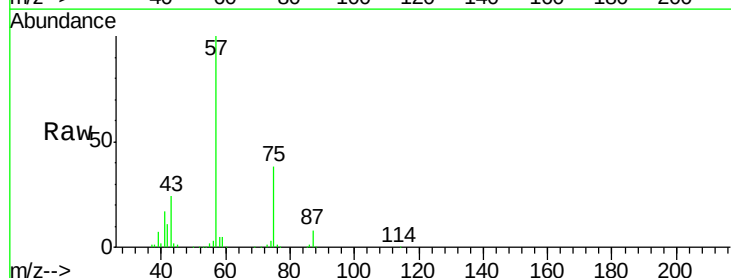
Acq: 12 Nov 2020 18:27

Tgt Ion: 76 Resp: 3716

Ion Ratio Lower Upper

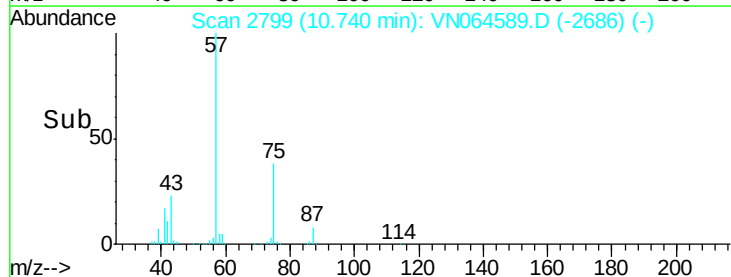
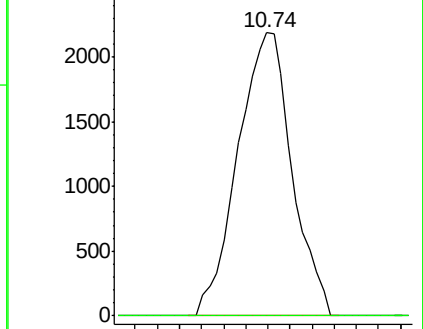
76 100

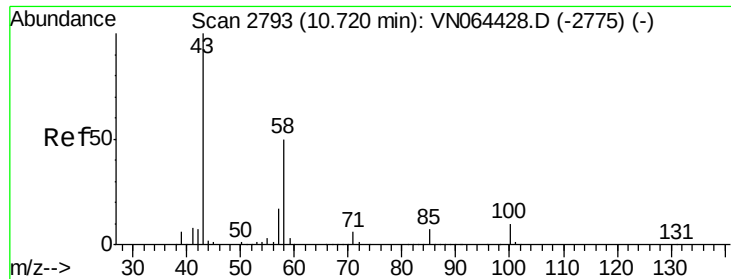
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN064589.D (-2799) (-)

Ion 77.90 (77.60 to 78.60): VN064589.D (-2799) (-)

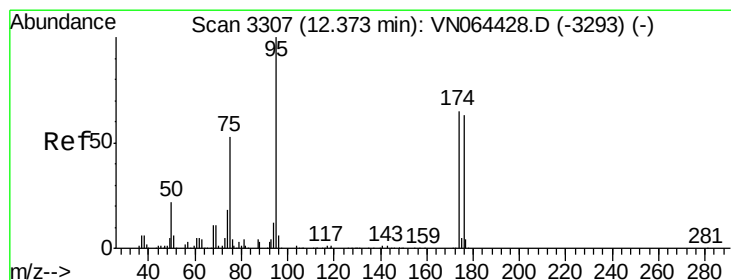
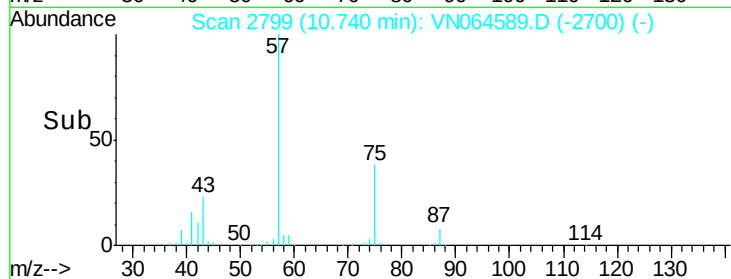
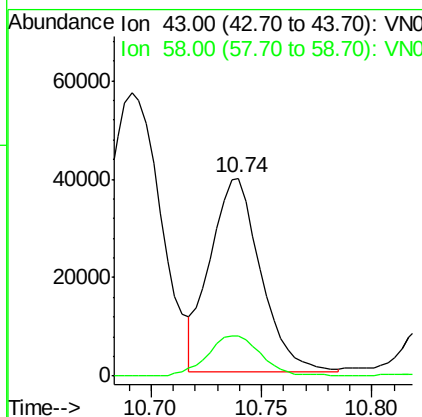
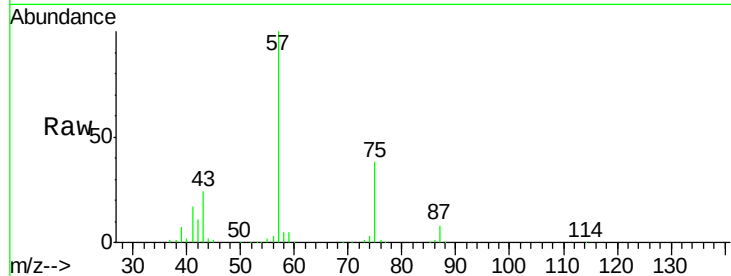




#59
2-Hexanone
Concen: 19.290 ug/l
RT: 10.74 min Scan# 2799
Delta R.T. 0.02 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

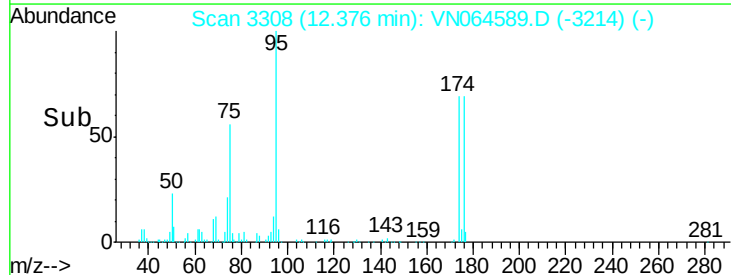
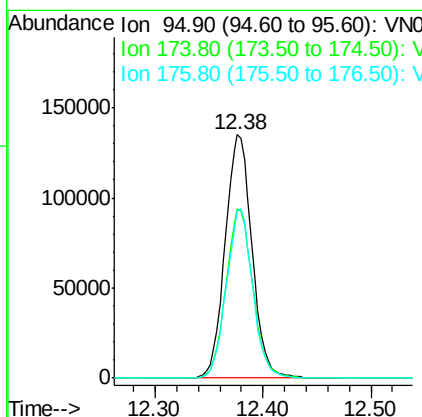
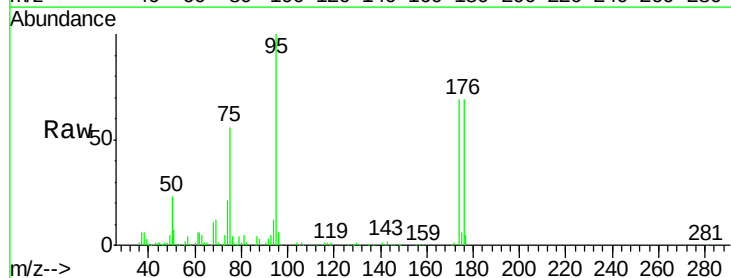
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-2-BOTTOM

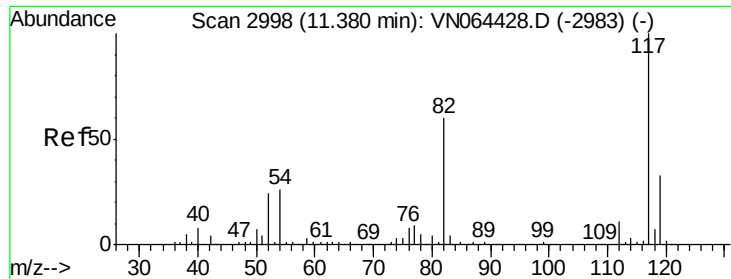
Tot Ion: 43 Resp: 62374
Ion Ratio Lower Upper
43 100
58 22.4 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 47.654 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

Tgt Ion: 95 Resp: 234237
Ion Ratio Lower Upper
95 100
174 69.8 0.0 132.6
176 67.9 0.0 129.2

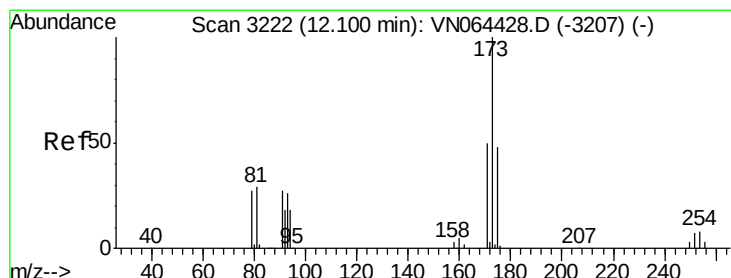
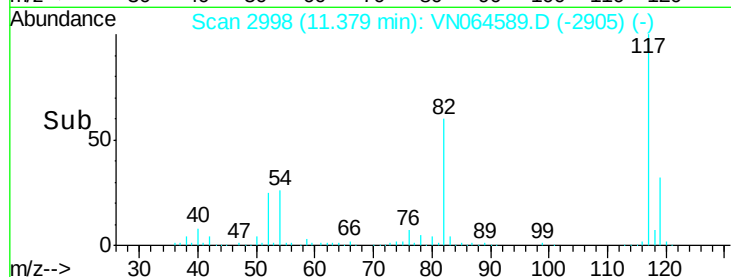
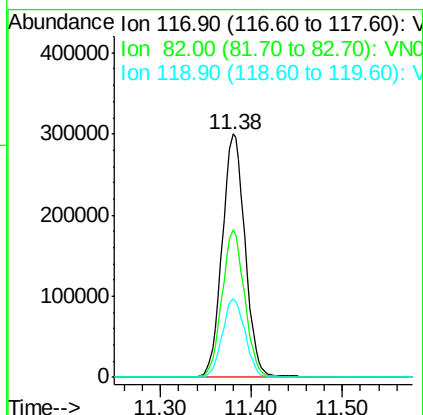
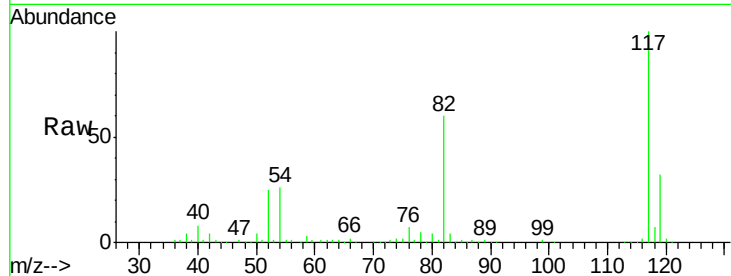




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

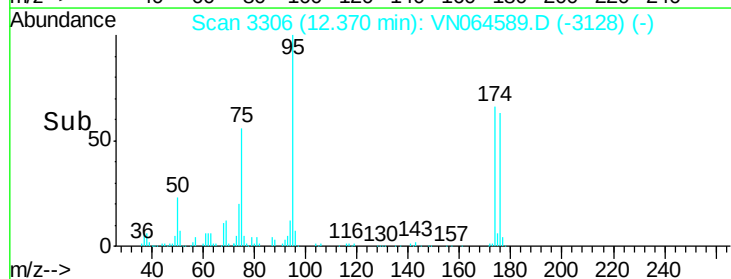
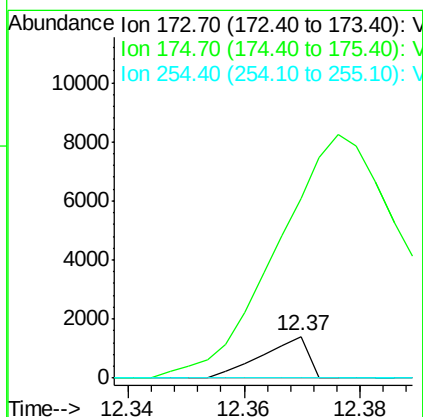
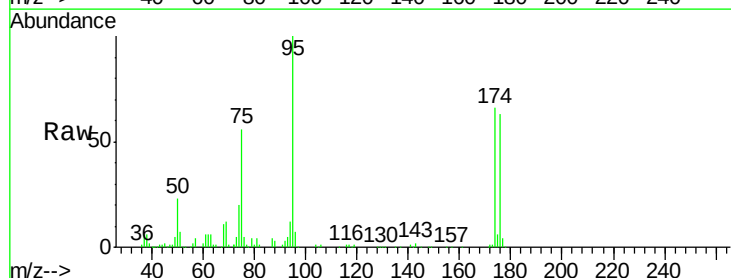
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-2-BOTTOM

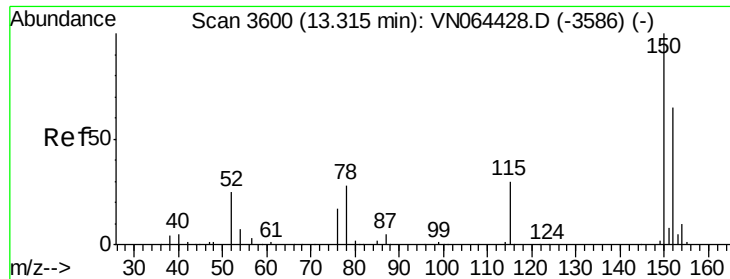
Tot Ion:117 Resp: 525160
Ion Ratio Lower Upper
117 100
82 60.5 48.1 72.1
119 32.1 26.2 39.4



#71
Bromoform
Concen: 1.509 ug/l
RT: 12.37 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN064589.D
Acq: 12 Nov 2020 18:27

Tgt Ion:173 Resp: 773
Ion Ratio Lower Upper
173 100
175 1363.6 23.7 71.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064589.D

Acq: 12 Nov 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-2-BOTTOM

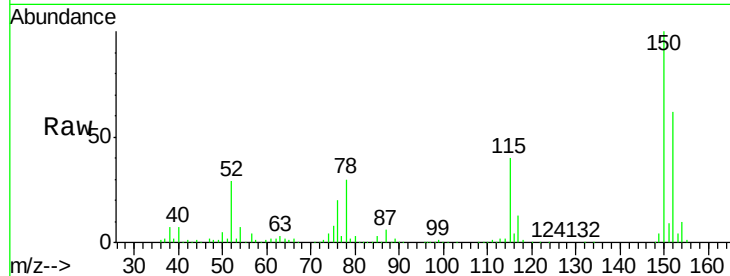
Tot Ion:152 Resp: 179697

Ion Ratio Lower Upper

152 100

115 64.5 32.0 96.0

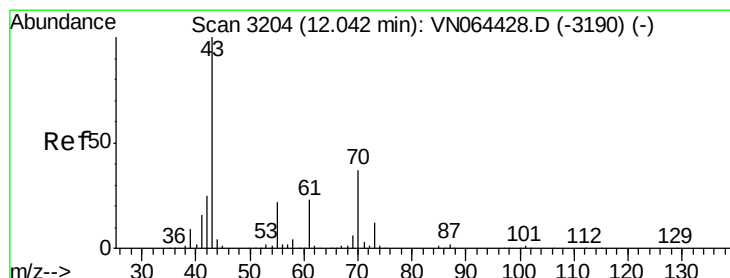
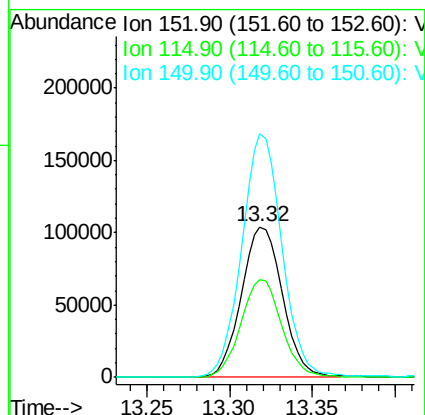
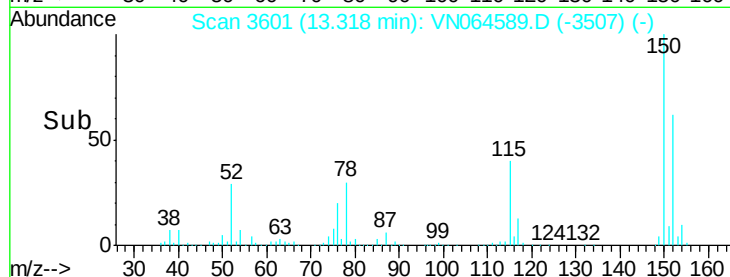
150 159.1 0.0 353.8



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-ethyl acetate

Concen: 1.856 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064589.D

Acq: 12 Nov 2020 18:27

Tgt Ion: 43 Resp: 4556

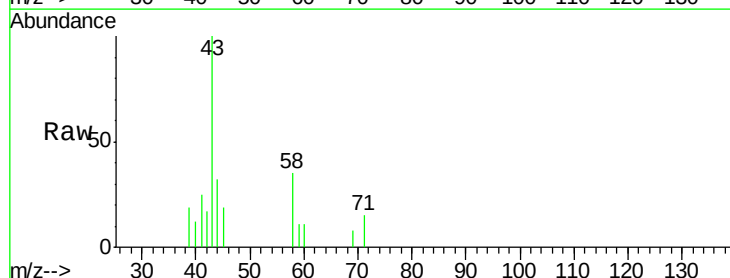
Ion Ratio Lower Upper

43 100

70 0.6 29.6 44.4#

55 3.4 18.4 27.6#

61 0.0 17.8 26.6#

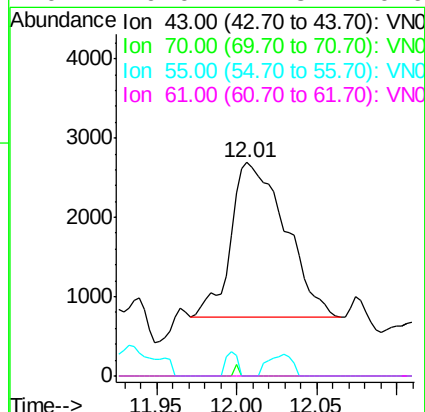
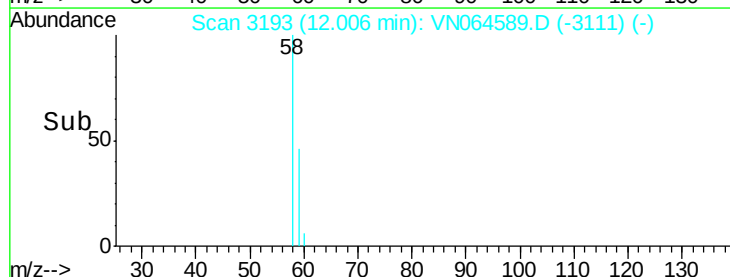


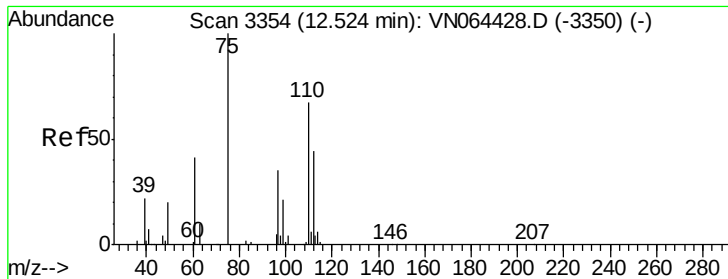
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.381 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064589.D

Acq: 12 Nov 2020 18:27

Instrument :

MSVOA_N

ClientSampleId :

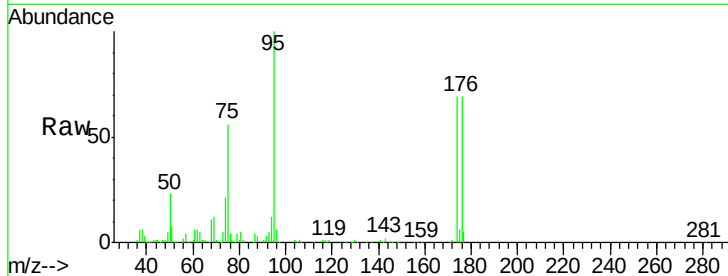
TRANSFORMER-5-2-BOTTOM

Tot Ion: 75 Resp: 132275

Ion Ratio Lower Upper

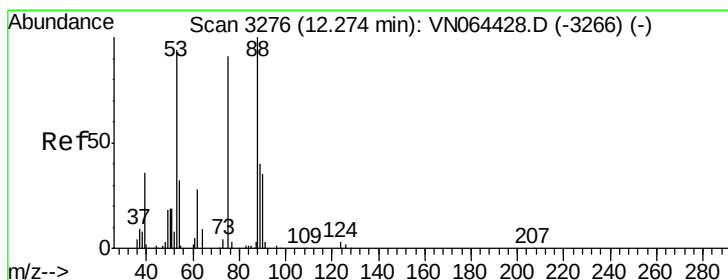
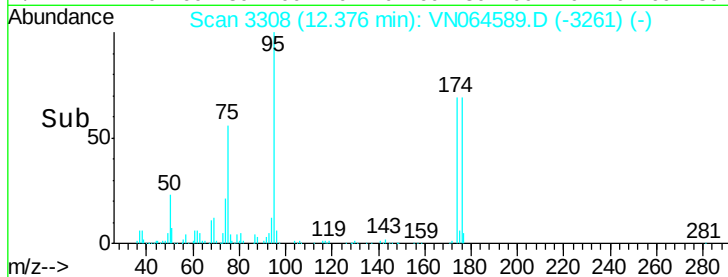
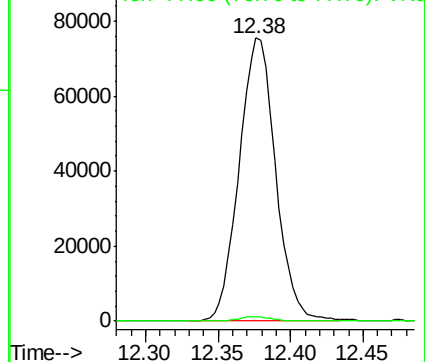
75 100

77 1.3 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: 84.827 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064589.D

Acq: 12 Nov 2020 18:27

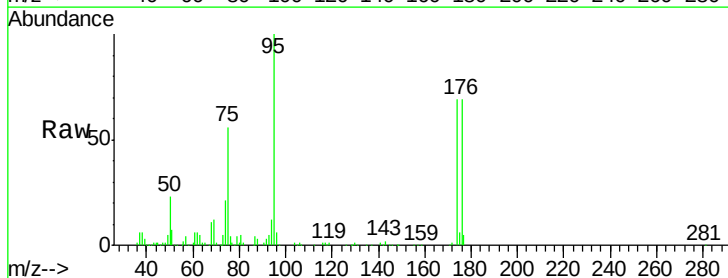
Tgt Ion: 75 Resp: 132275

Ion Ratio Lower Upper

75 100

53 0.2 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

