

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064595.D
 Acq On : 12 Nov 2020 20:52
 Operator : JC/MD
 Sample : L4681-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1-D

Quant Time: Nov 13 02:56:23 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	220308	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	501279	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	536024	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	190238	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	230746	60.13	ug/l	0.00
Spiked Amount			Recovery	=	120.26%	
35) Dibromofluoromethane	7.55	113	169341	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
50) Toluene-d8	10.06	98	649052	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
62) 4-Bromofluorobenzene	12.38	95	241030	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	

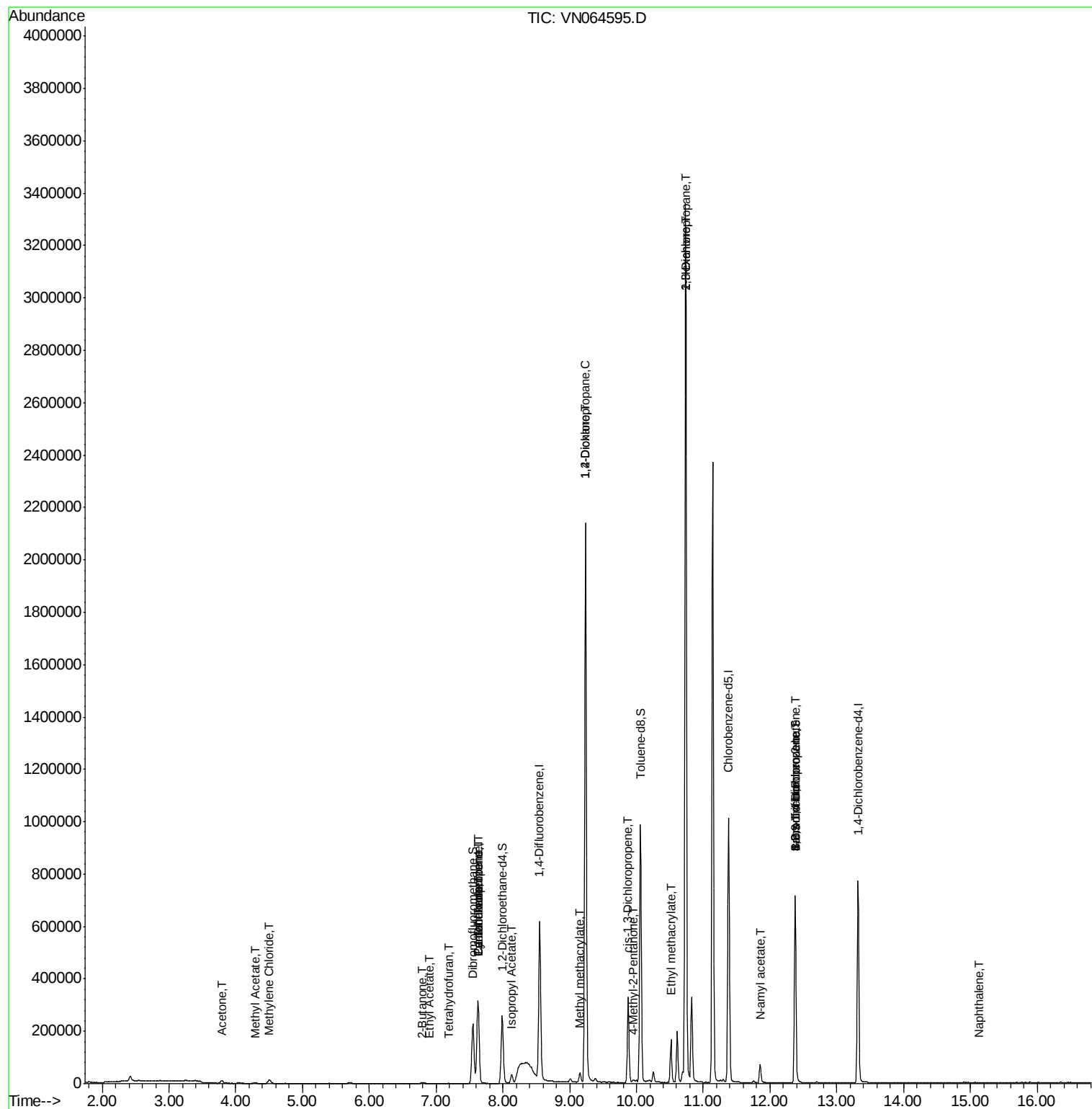
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	19717	13.489	ug/l	99
18) Methyl Acetate	4.28	43	1024	0.356	ug/l #	85
20) Methylene Chloride	4.50	84	8911	3.073	ug/l	95
25) 2-Butanone	6.79	43	412	0.221	ug/l #	52
29) Tetrahydrofuran	7.18	42	647	0.566	ug/l #	58
31) Cyclohexane	7.63	56	7216	1.547	ug/l #	38
36) 1,1-Dichloropropene	7.63	75	20873	3.942	ug/l #	47
37) Ethyl Acetate	6.90	43	150	0.790	ug/l #	71
38) Carbon Tetrachloride	7.63	117	25904	4.577	ug/l #	17
43) Isopropyl Acetate	8.13	43	41432	4.828	ug/l	99
45) 1,2-Dichloropropane	9.23	63	2510	0.605	ug/l #	45
48) Methyl methacrylate	9.15	41	9258	2.138	ug/l #	15
49) 1,4-Dioxane	9.23	88	65	1.140	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	7571	1.513	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	51019	7.658	ug/l #	68
56) Ethyl methacrylate	10.51	69	1462	2.072	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	30655	4.745	ug/l #	43
59) 2-Hexanone	10.74	43	510697	127.148	ug/l #	54
71) Bromoform	12.37	173	725	1.490	ug/l #	29
74) N-amyl acetate	11.85	43	23798	4.381	ug/l #	59
76) 1,2,3-Trichloropropane	12.38	75	134538	29.188	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	134538	81.497	ug/l #	8
95) Naphthalene	15.13	128	161	3.637	ug/l #	69

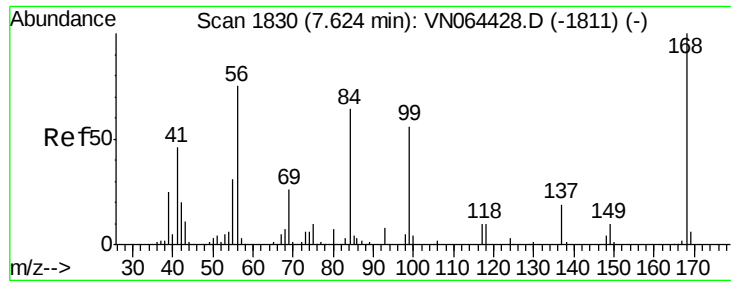
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 04 12:09:03 2020
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: VN064595.D

Acq: 12 Nov 2020 20:52

Instrument :

MSVOA_N

ClientSampled :

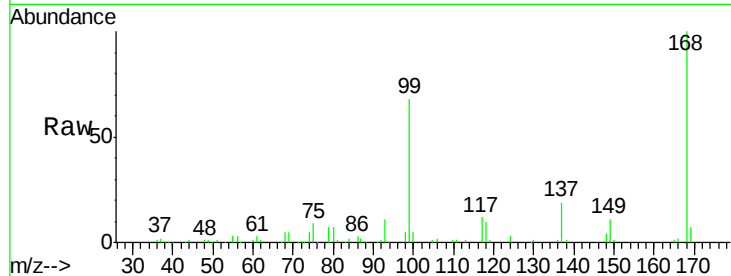
TP-1-D

Tot Ion:168 Resp: 220308

Ion Ratio Lower Upper

168 100

99 67.6 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

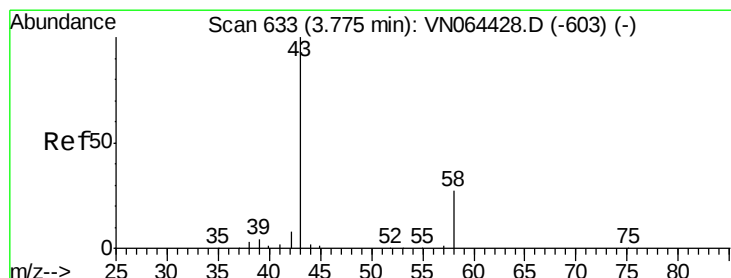
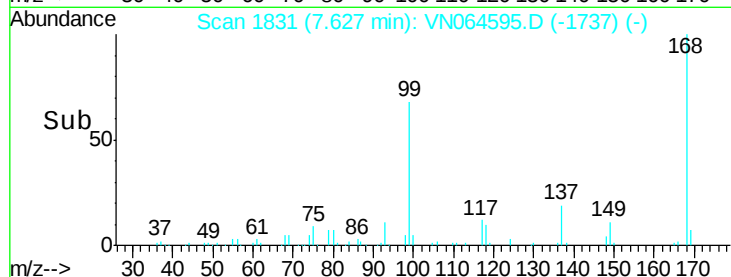
60000

40000

20000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#16

Acetone

Concen: 13.489 ug/l

RT: 3.79 min Scan# 638

Delta R.T. 0.02 min

Lab File: VN064595.D

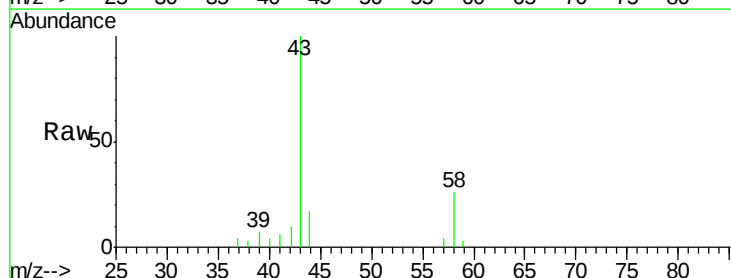
Acq: 12 Nov 2020 20:52

Tgt Ion: 43 Resp: 19717

Ion Ratio Lower Upper

43 100

58 26.0 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.79

8000

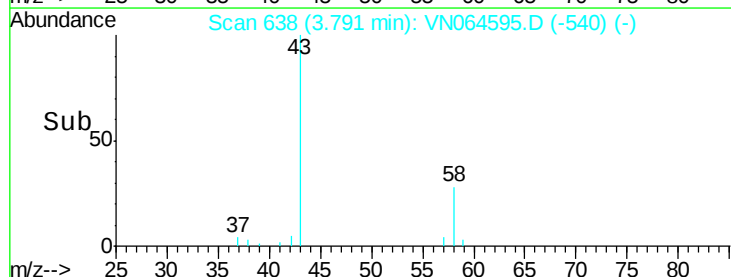
6000

4000

2000

0

Time--> 3.70 3.75 3.80 3.85

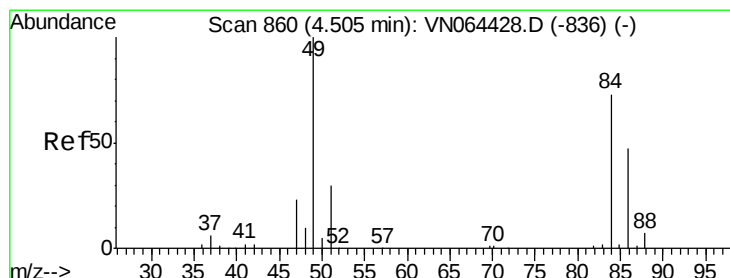
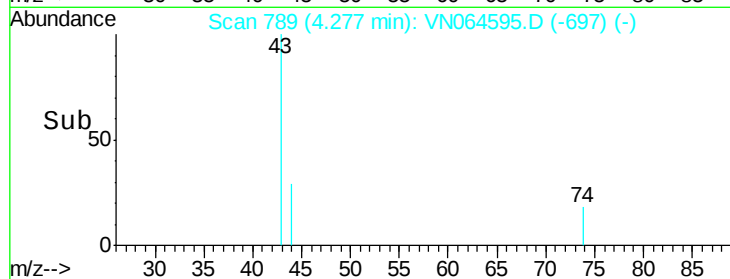
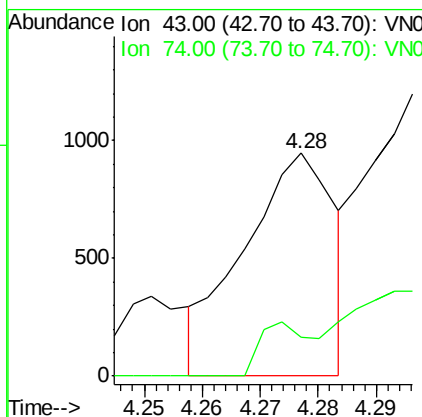
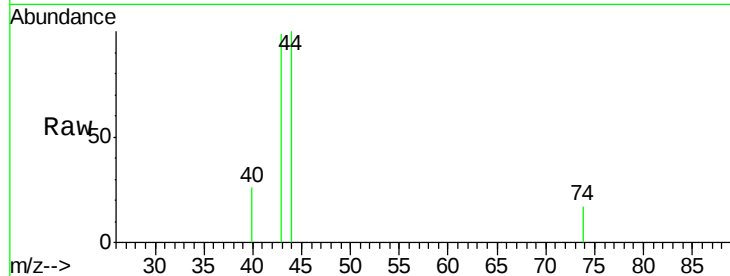




#18
Methyl Acetate
Concen: 0.356 ug/l
RT: 4.28 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN064595.D
Acq: 12 Nov 2020 20:52

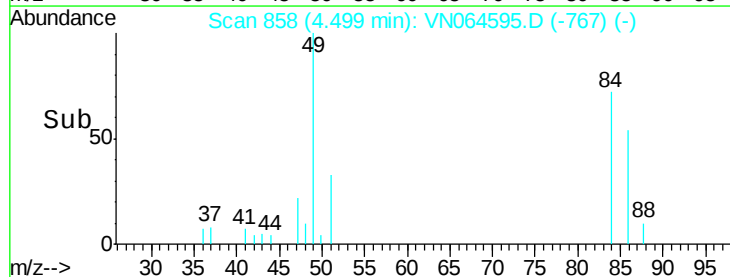
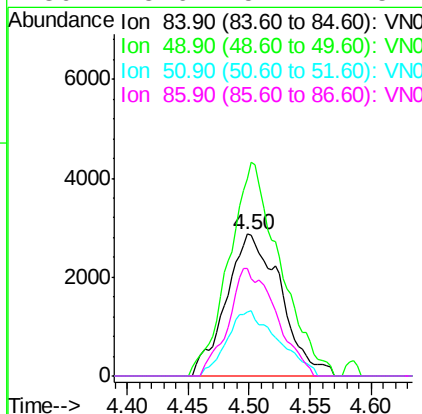
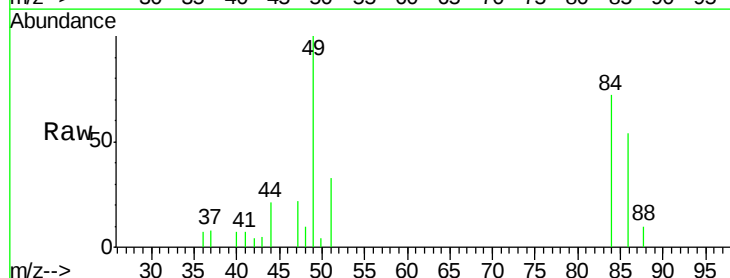
Instrument :
MSVOA_N
ClientSampled :
TP-1-D

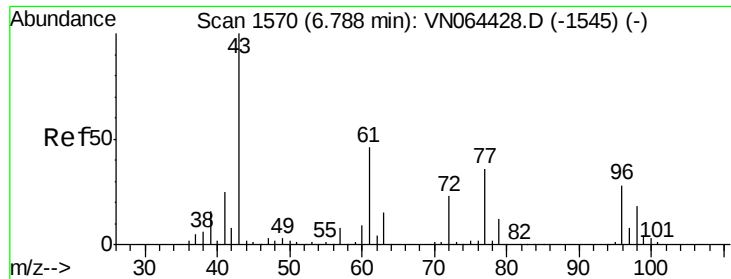
Tot Ion: 43 Resp: 1024
Ion Ratio Lower Upper
43 100
74 14.3 17.0 25.4#



#20
Methylene Chloride
Concen: 3.073 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.01 min
Lab File: VN064595.D
Acq: 12 Nov 2020 20:52

Tgt Ion: 84 Resp: 8911
Ion Ratio Lower Upper
84 100
49 138.9 110.1 165.1
51 45.3 33.6 50.4
86 75.6 52.1 78.1

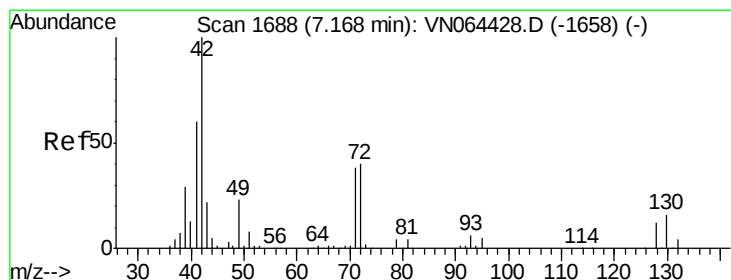
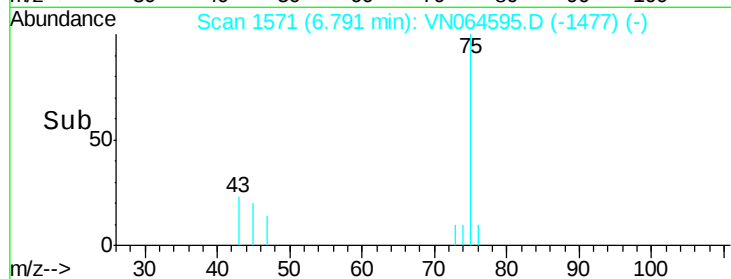
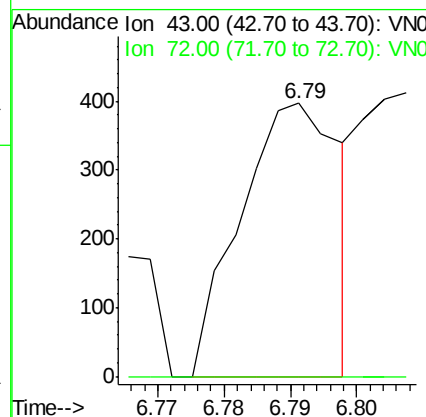
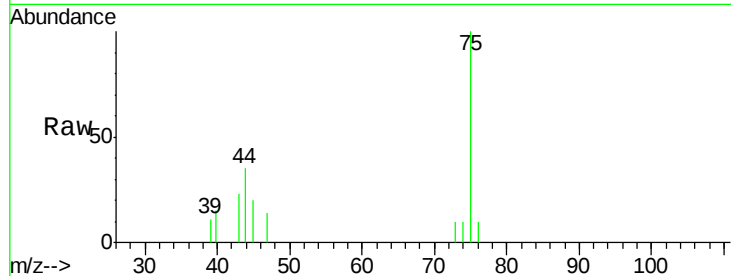




#25
 2-Butanone
 Concen: 0.221 ug/l
 RT: 6.79 min Scan# 1571
 Delta R.T. 0.00 min
 Lab File: VN064595.D
 Acq: 12 Nov 2020 20:52

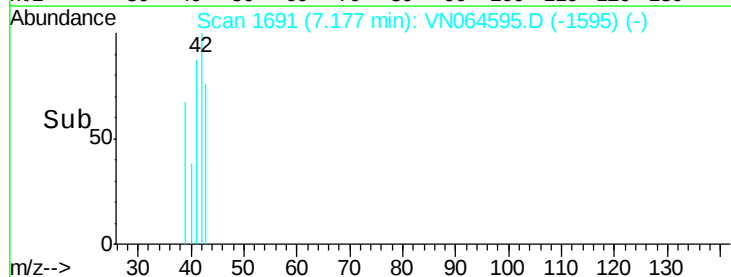
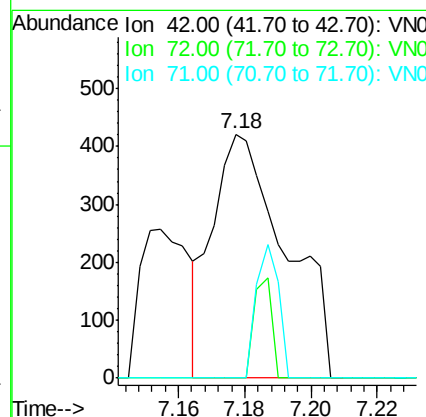
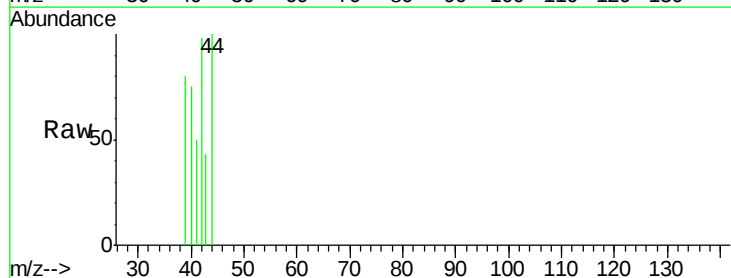
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1-D

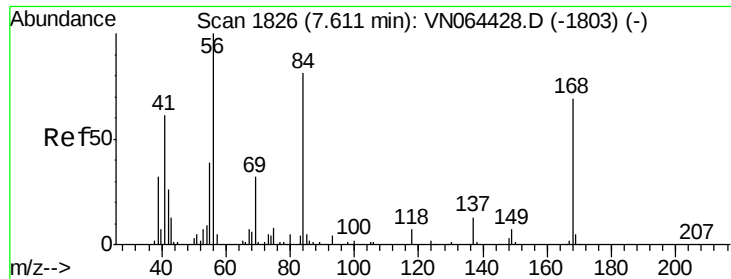
Tot Ion: 43 Resp: 412
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.5 27.7#



#29
 Tetrahydrofuran
 Concen: 0.566 ug/l
 RT: 7.18 min Scan# 1691
 Delta R.T. 0.01 min
 Lab File: VN064595.D
 Acq: 12 Nov 2020 20:52

Tgt Ion: 42 Resp: 647
 Ion Ratio Lower Upper
 42 100
 72 9.7 31.7 47.5#
 71 16.7 29.8 44.6#

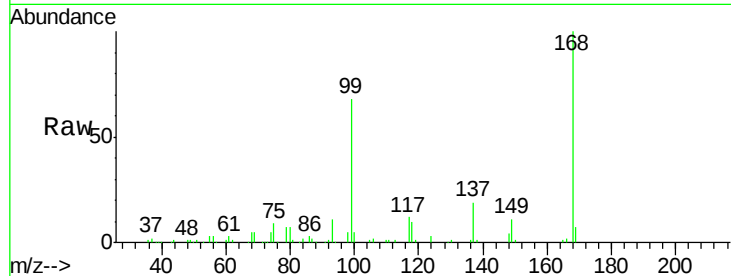




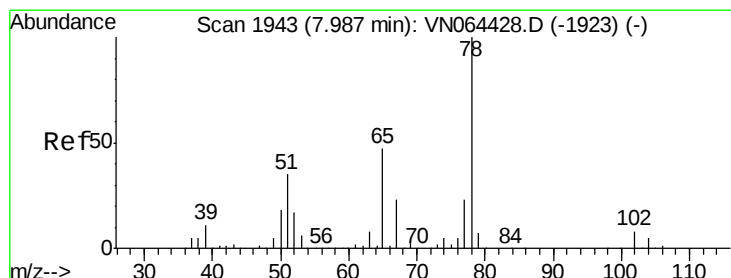
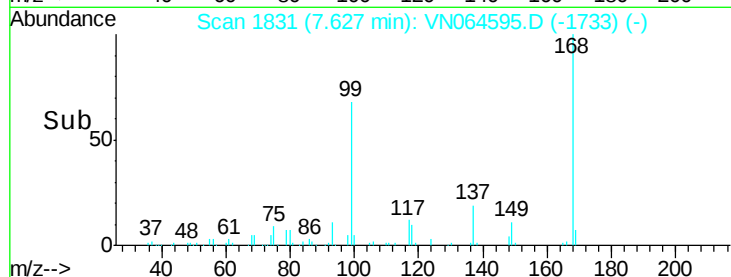
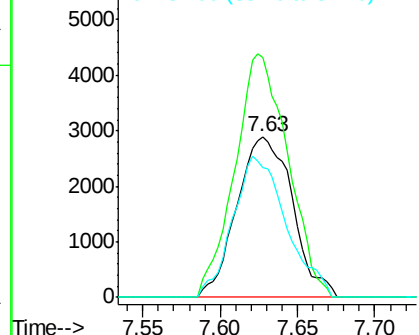
#31
Cyclohexane
Concen: 1.547 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN064595.D
Acq: 12 Nov 2020 20:52

Instrument :
MSVOA_N
ClientSampled :
TP-1-D

Tot Ion: 56 Resp: 7216
Ion Ratio Lower Upper
56 100
69 149.1 25.6 38.4#
84 80.9 63.0 94.6

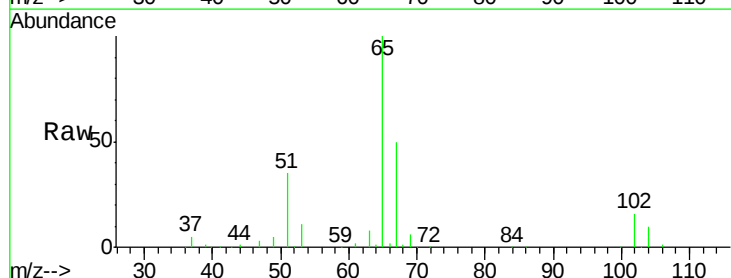


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

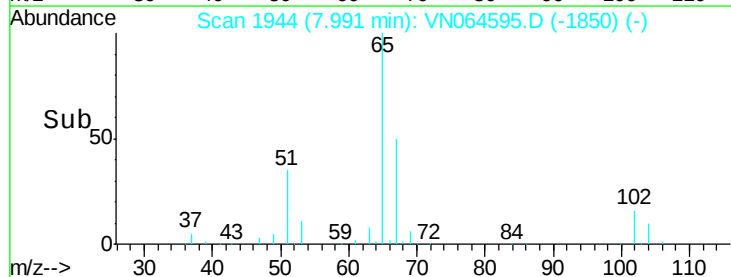
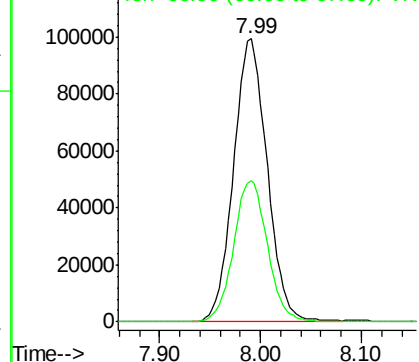


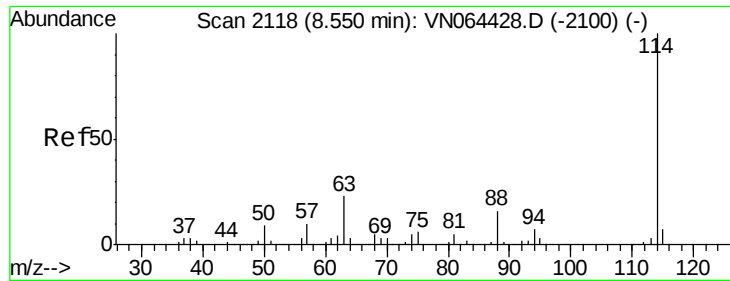
#33
1,2-Dichloroethane-d4
Concen: 60.130 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN064595.D
Acq: 12 Nov 2020 20:52

Tgt Ion: 65 Resp: 230746
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

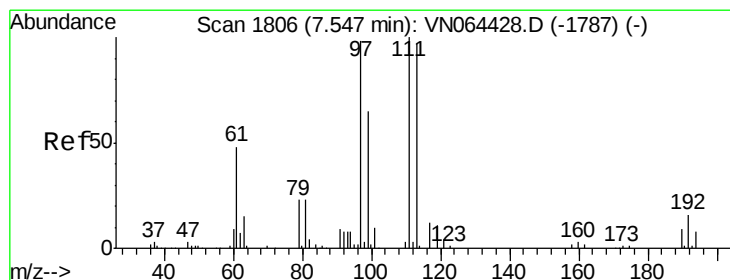
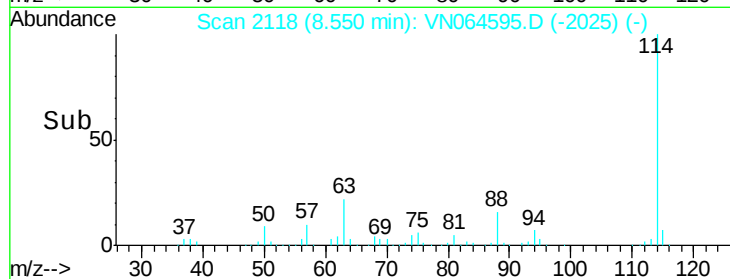
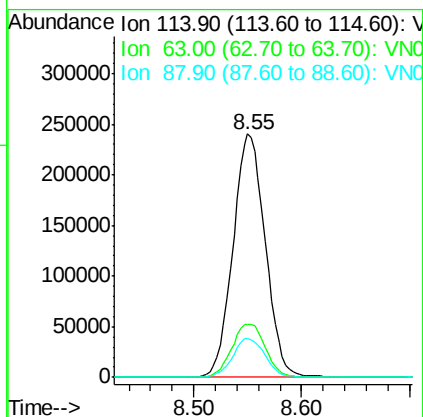
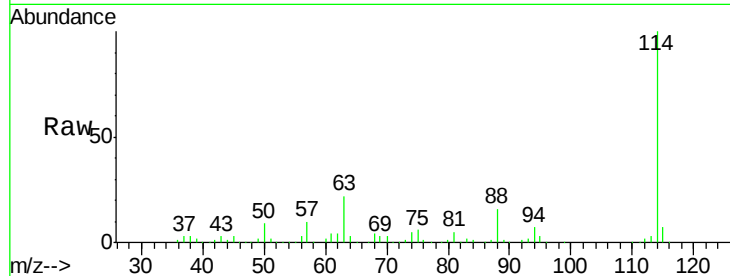




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064595.D
 Acq: 12 Nov 2020 20:52

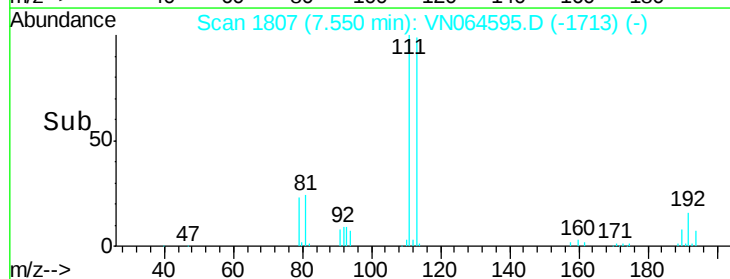
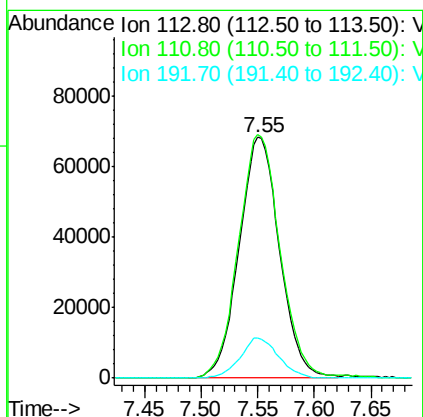
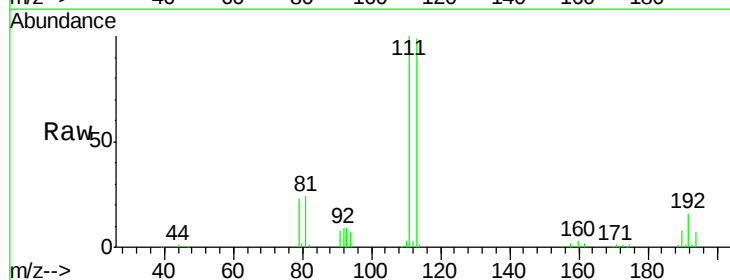
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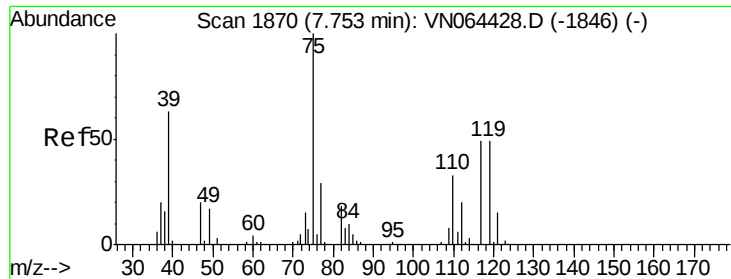
Tot Ion:114 Resp: 501279
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 45.6
 88 16.0 0.0 32.8



#35
 Dibromofluoromethane
 Concen: 49.616 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064595.D
 Acq: 12 Nov 2020 20:52

Tgt Ion:113 Resp: 169341
 Ion Ratio Lower Upper
 113 100
 111 104.0 81.1 121.7
 192 16.0 12.8 19.2

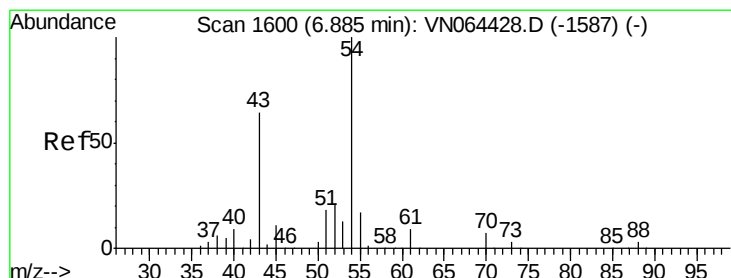
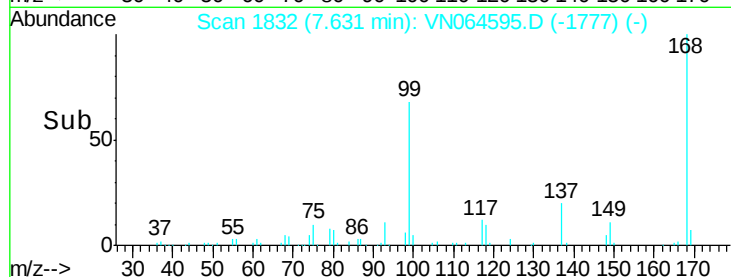
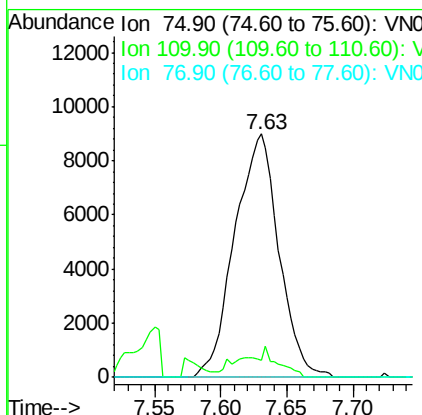
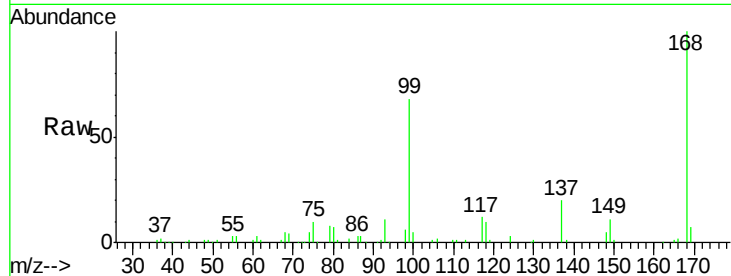




#36
 1,1-Dichloropropene
 Concen: 3.942 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN064595.D
 Acq: 12 Nov 2020 20:52

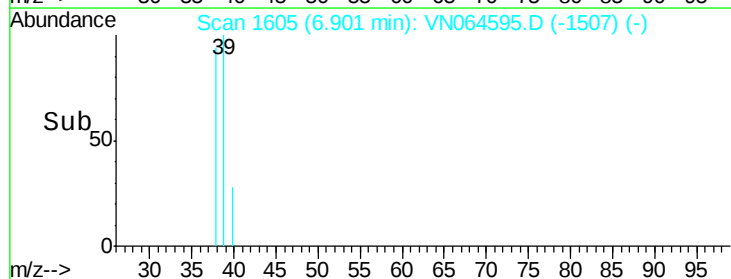
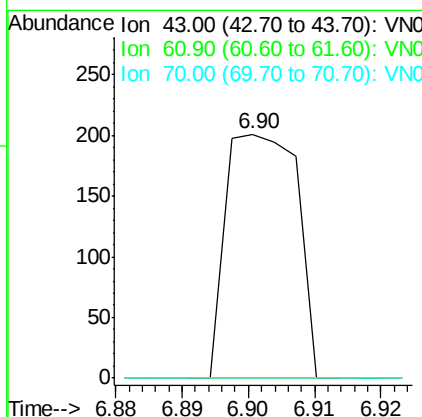
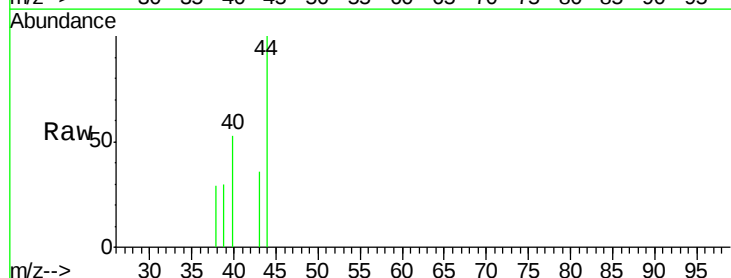
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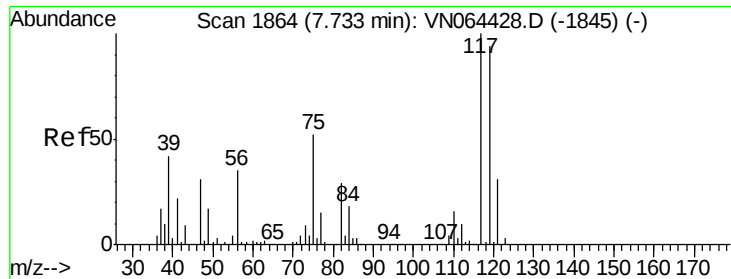
Tot Ion: 75 Resp: 20873
 Ion Ratio Lower Upper
 75 100
 110 4.1 16.0 48.0#
 77 0.0 24.0 36.0#



#37
 Ethyl Acetate
 Concen: 0.790 ug/l
 RT: 6.90 min Scan# 1605
 Delta R.T. 0.02 min
 Lab File: VN064595.D
 Acq: 12 Nov 2020 20:52

Tgt Ion: 43 Resp: 150
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.0 15.0#
 70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 4.577 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064595.D

Acq: 12 Nov 2020 20:52

Instrument :

MSVOA_N

ClientSampleId :

TP-1-D

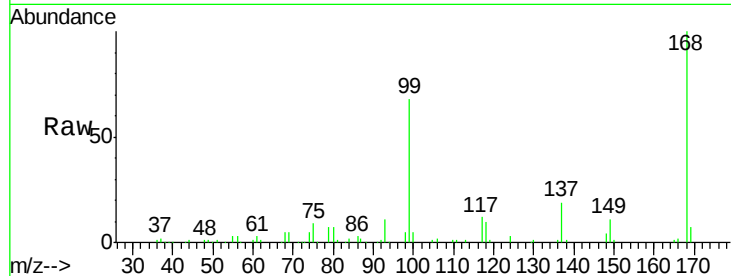
Tot Ion:117 Resp: 25904

Ion Ratio Lower Upper

117 100

119 6.2 75.5 113.3#

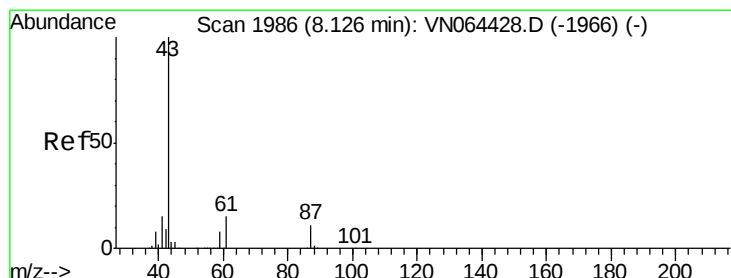
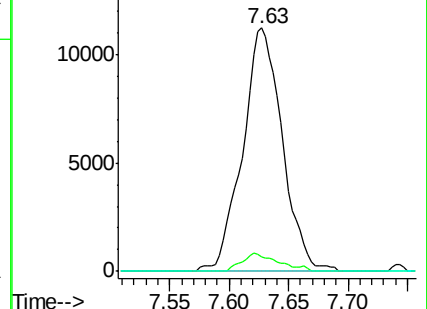
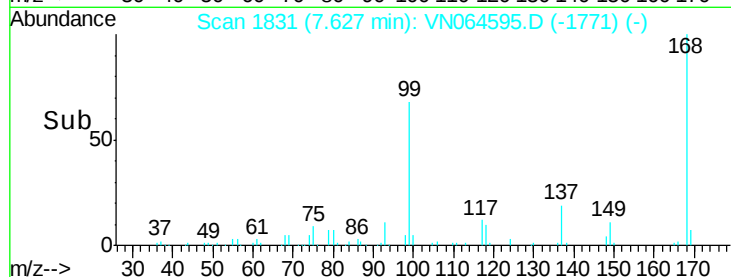
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 4.828 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064595.D

Acq: 12 Nov 2020 20:52

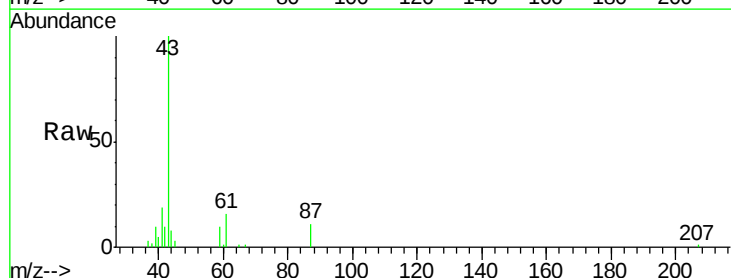
Tgt Ion: 43 Resp: 41432

Ion Ratio Lower Upper

43 100

61 17.1 14.0 21.0

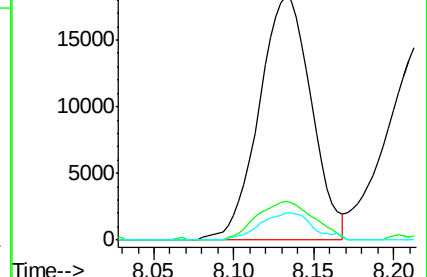
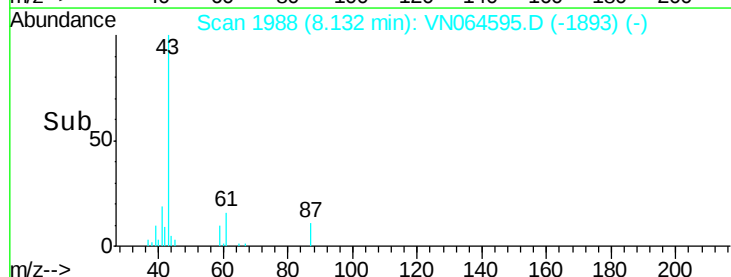
87 11.3 9.1 13.7

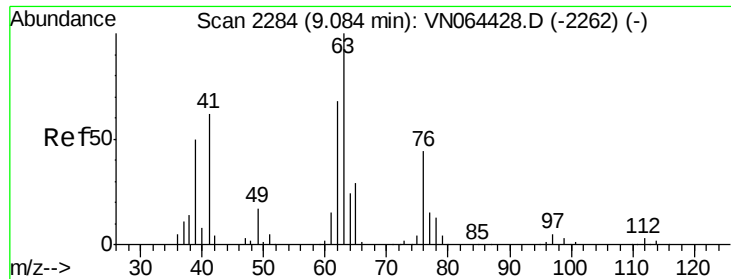


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

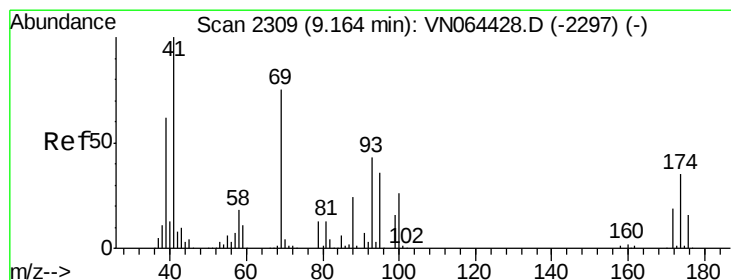
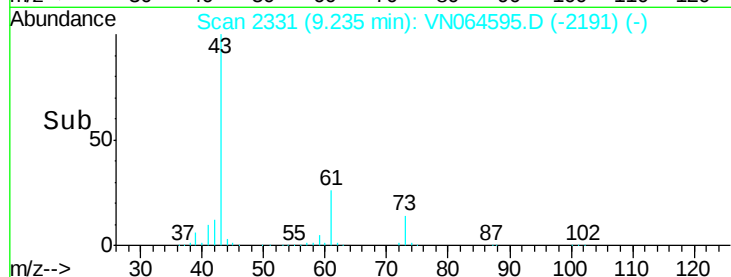
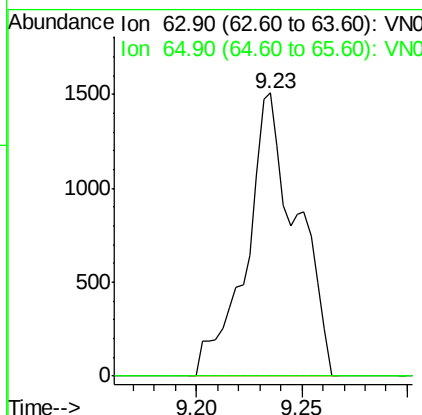
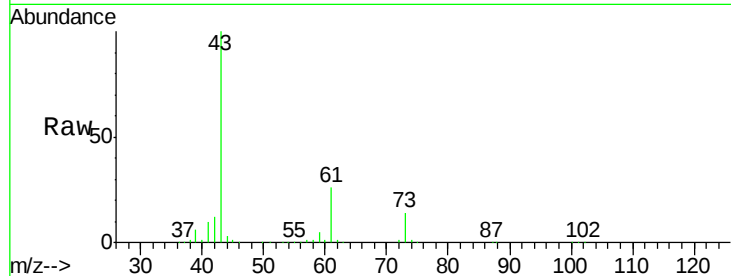




#45
 1,2-Dichloropropane
 Concen: 0.605 ug/l
 RT: 9.23 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN064595.D
 Acq: 12 Nov 2020 20:52

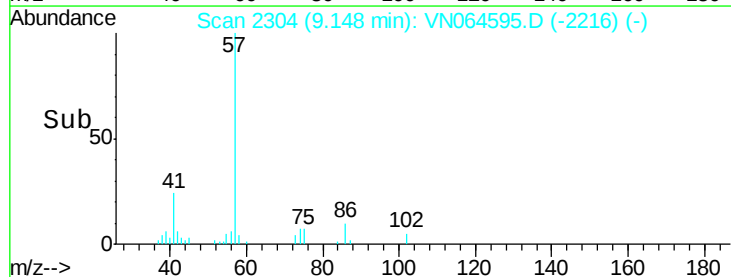
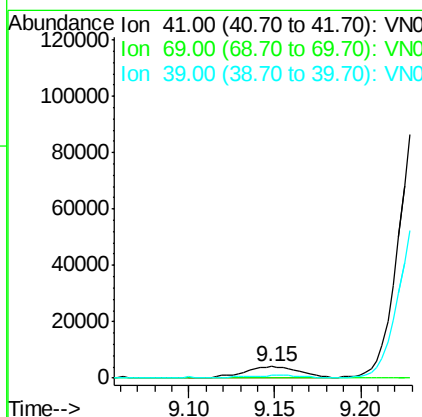
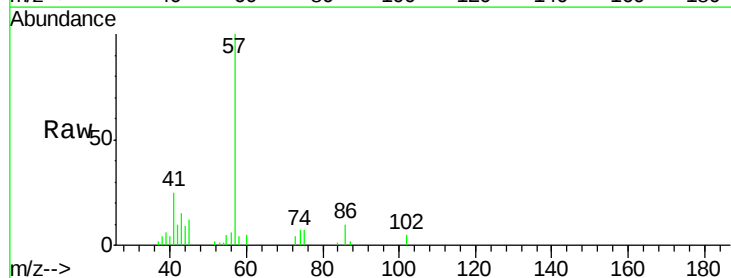
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1-D

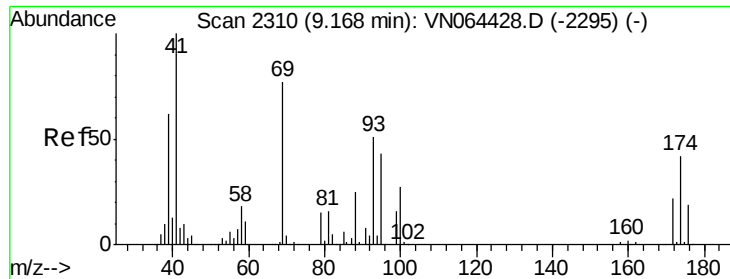
Tot Ion: 63 Resp: 2510
 Ion Ratio Lower Upper
 63 100
 65 0.0 23.6 35.4#



#48
 Methyl methacrylate
 Concen: 2.138 ug/l
 RT: 9.15 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN064595.D
 Acq: 12 Nov 2020 20:52

Tgt Ion: 41 Resp: 9258
 Ion Ratio Lower Upper
 41 100
 69 0.3 60.4 90.6#
 39 0.0 51.2 76.8#





#49

1,4-Dioxane

Concen: 1.140 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN064595.D

Acq: 12 Nov 2020 20:52

Instrument :

MSVOA_N

ClientSampleId :

TP-1-D

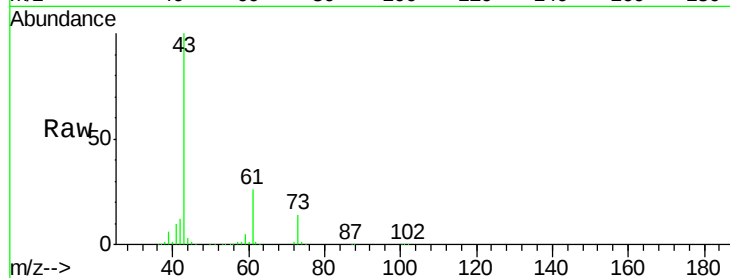
Tot Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 3211761.5 31.0 46.6#

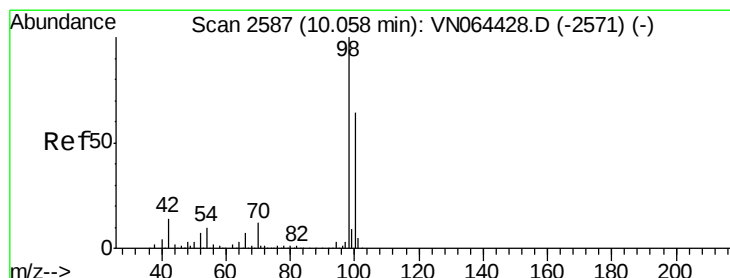
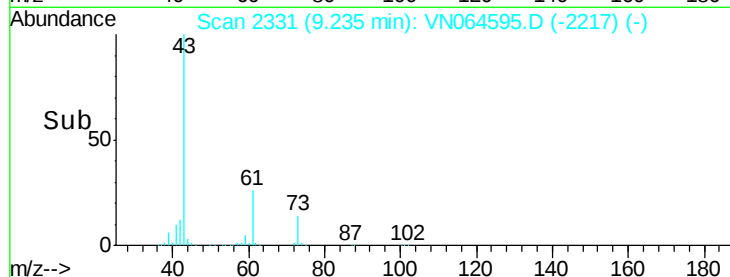
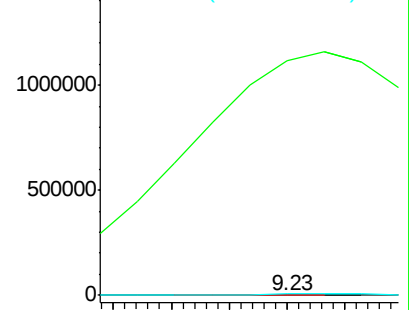
58 17592.3 58.4 87.6#



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: 49.203 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064595.D

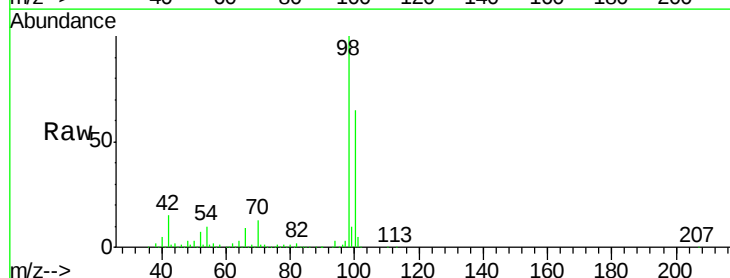
Acq: 12 Nov 2020 20:52

Tgt Ion: 98 Resp: 649052

Ion Ratio Lower Upper

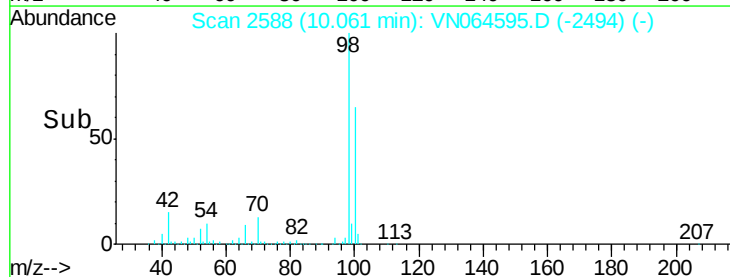
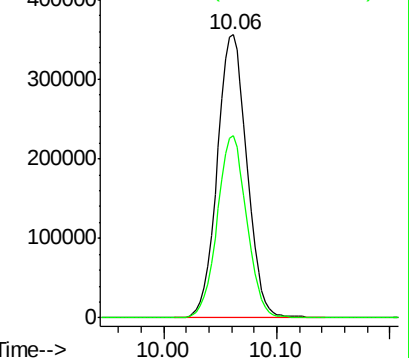
98 100

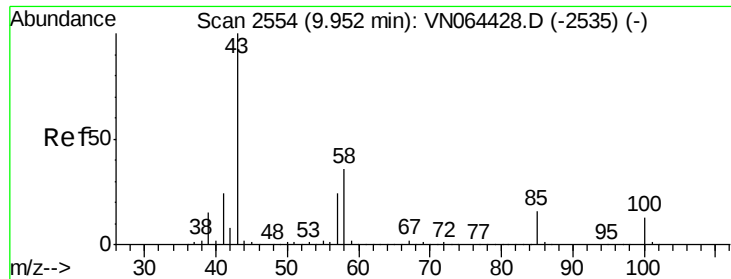
100 64.0 50.7 76.1



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

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

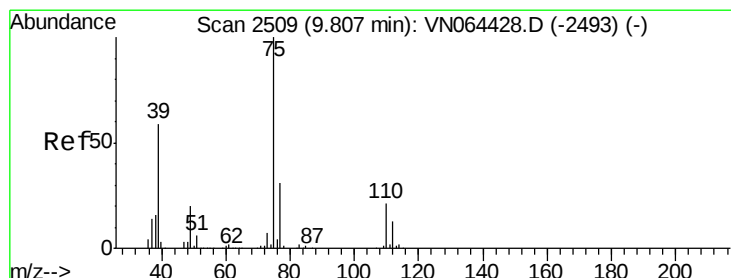
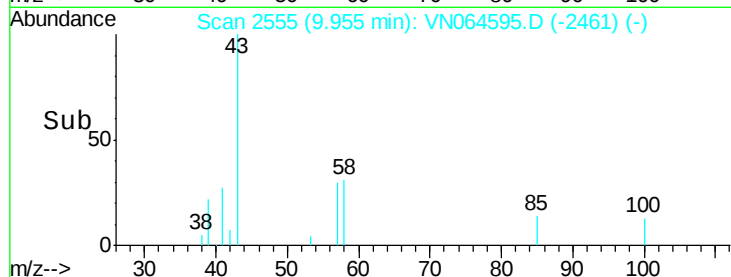
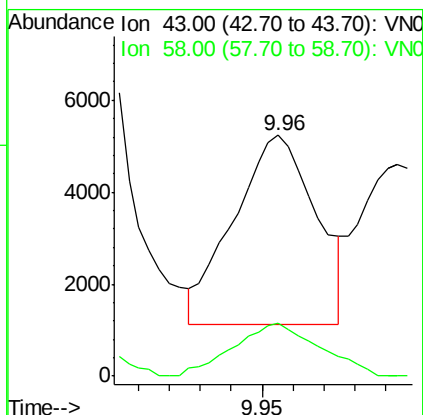
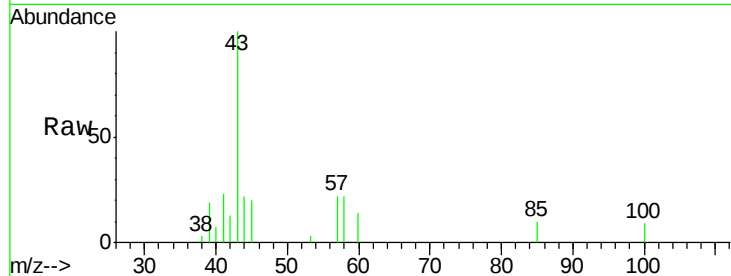




#51
 4-Methyl-2-Pentanone
 Concen: 1.513 ug/l
 RT: 9.96 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN064595.D
 Acq: 12 Nov 2020 20:52

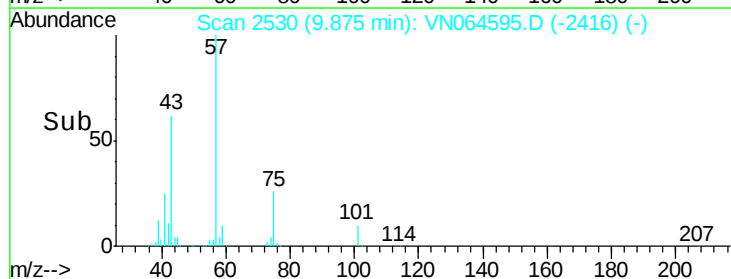
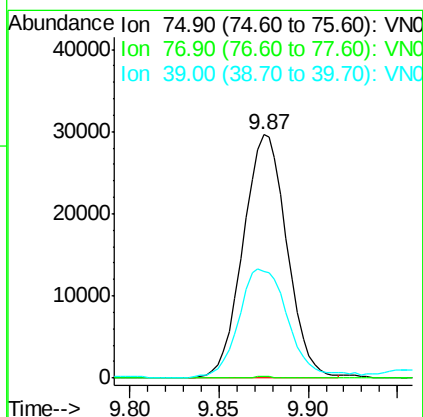
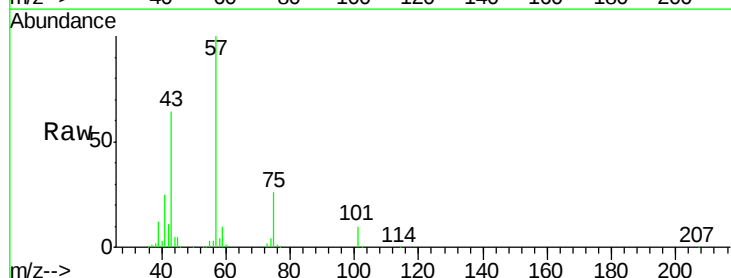
Instrument :
 MSVOA_N
 ClientSampled :
 TP-1-D

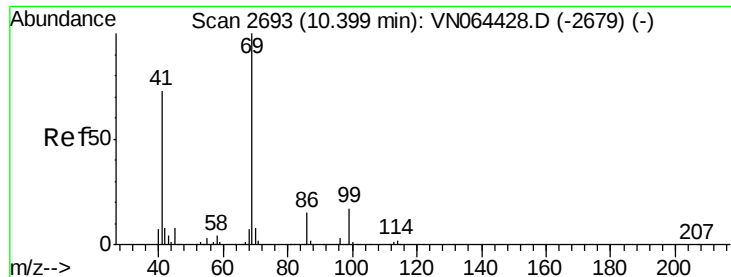
Tot Ion: 43 Resp: 7571
 Ion Ratio Lower Upper
 43 100
 58 29.4 28.4 42.6



#54
 cis-1,3-Dichloropropene
 Concen: 7.658 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064595.D
 Acq: 12 Nov 2020 20:52

Tgt Ion: 75 Resp: 51019
 Ion Ratio Lower Upper
 75 100
 77 0.8 24.9 37.3#
 39 44.0 47.1 70.7#





#56

Ethyl methacrylate

Concen: 2.072 ug/l

RT: 10.51 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN064595.D

Acq: 12 Nov 2020 20:52

Instrument :

MSVOA_N

ClientSampleId :

TP-1-D

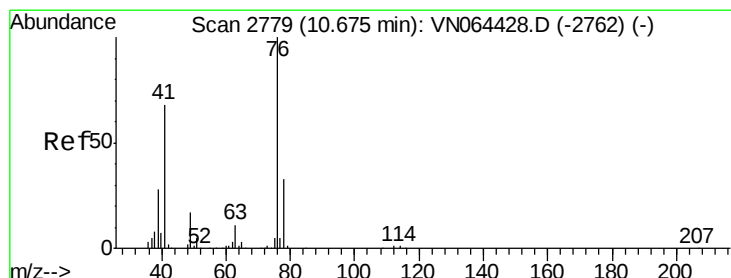
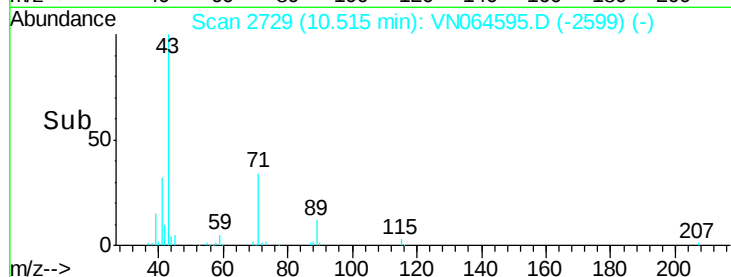
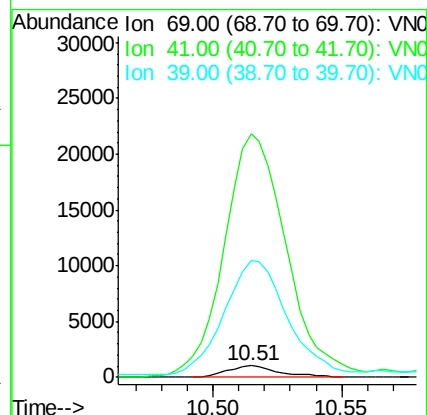
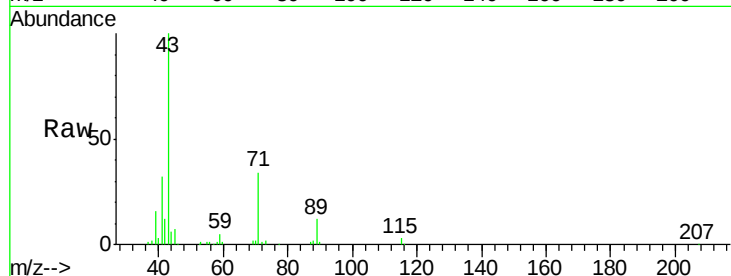
Tot Ion: 69 Resp: 1462

Ion Ratio Lower Upper

69 100

41 2520.7 59.3 88.9#

39 1194.3 35.4 53.0#



#57

1,3-Dichloropropane

Concen: 4.745 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064595.D

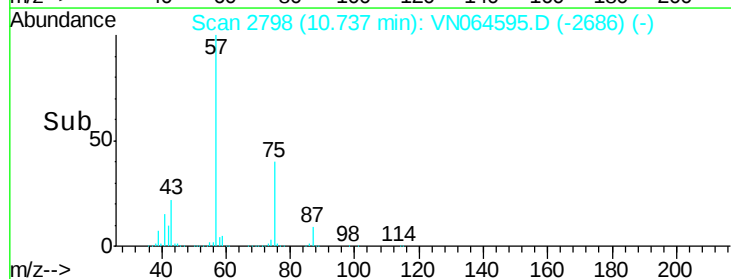
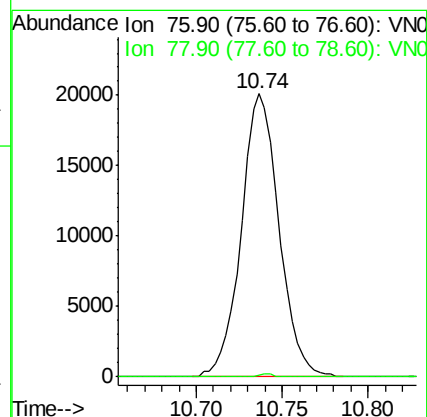
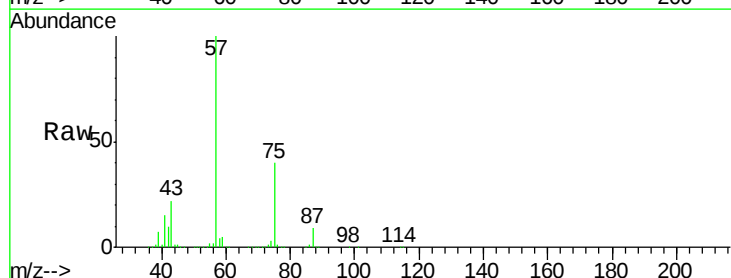
Acq: 12 Nov 2020 20:52

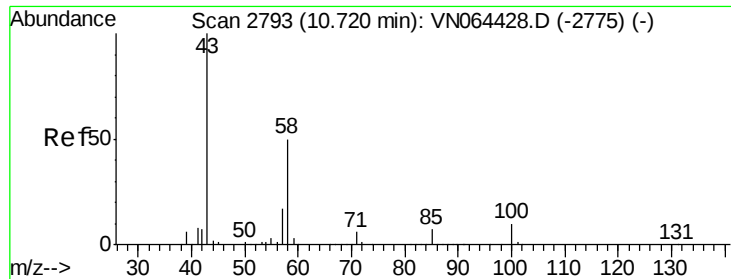
Tgt Ion: 76 Resp: 30655

Ion Ratio Lower Upper

76 100

78 0.4 25.8 38.6#

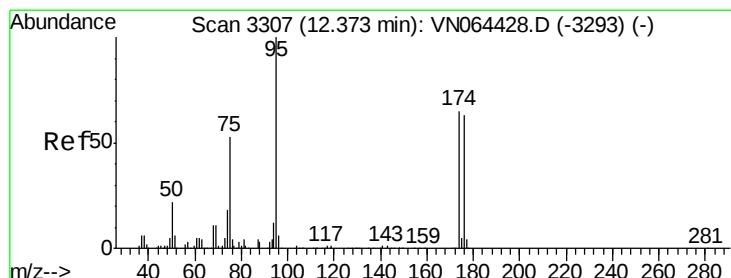
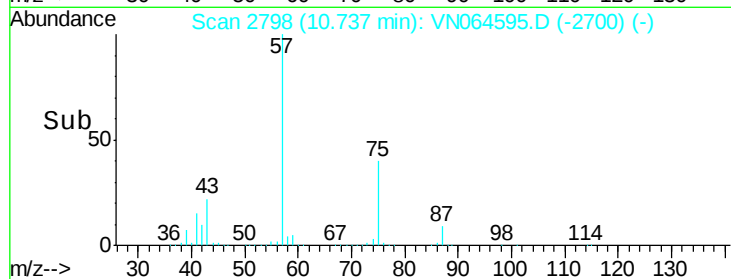
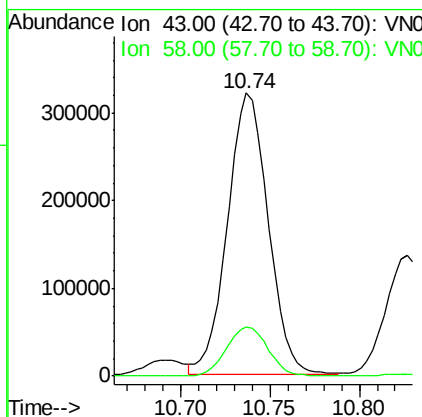
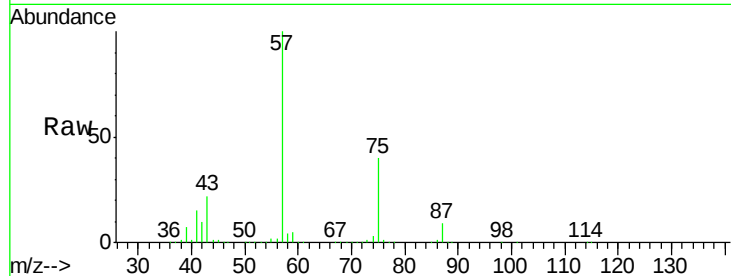




#59
2-Hexanone
Concen: 127.148 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.02 min
Lab File: VN064595.D
Acq: 12 Nov 2020 20:52

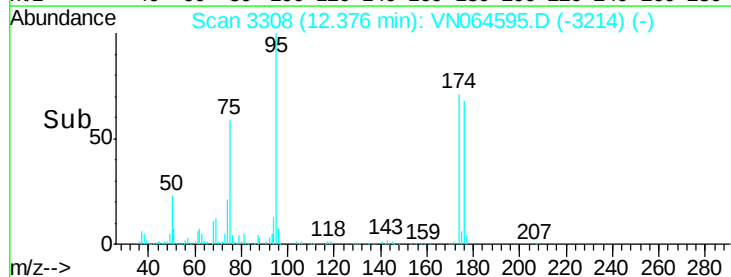
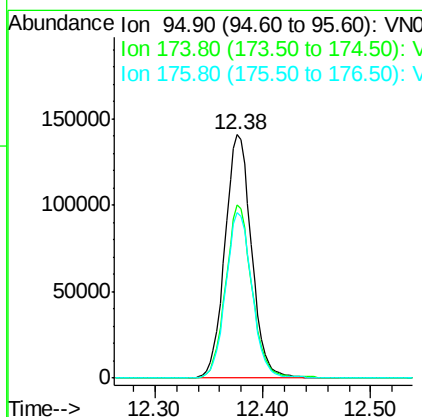
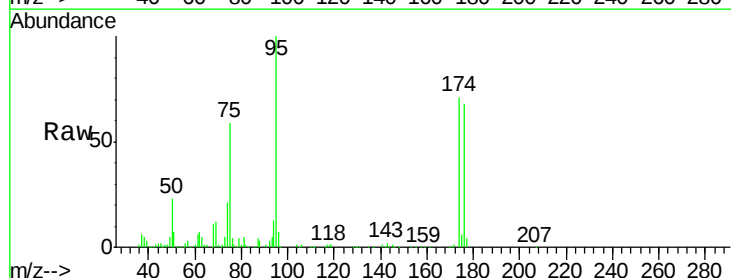
Instrument :
MSVOA_N
ClientSampled :
TP-1-D

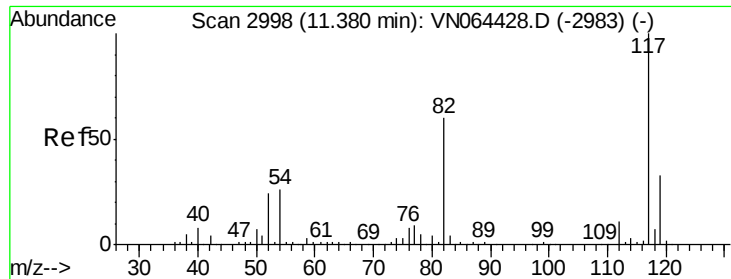
Tot Ion: 43 Resp: 510697
Ion Ratio Lower Upper
43 100
58 18.0 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 48.314 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064595.D
Acq: 12 Nov 2020 20:52

Tgt Ion: 95 Resp: 241030
Ion Ratio Lower Upper
95 100
174 70.1 0.0 132.6
176 67.3 0.0 129.2

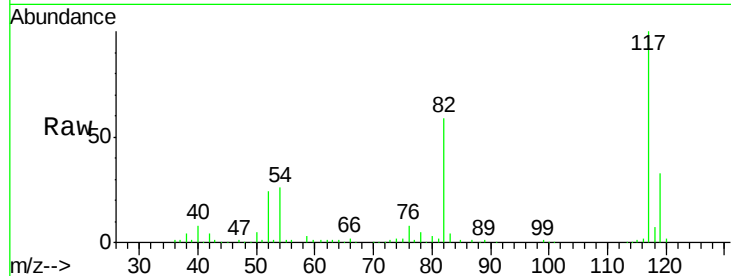




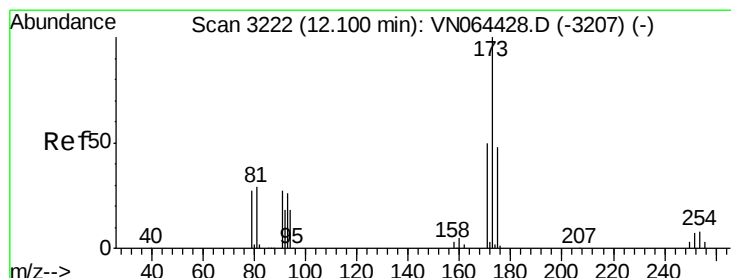
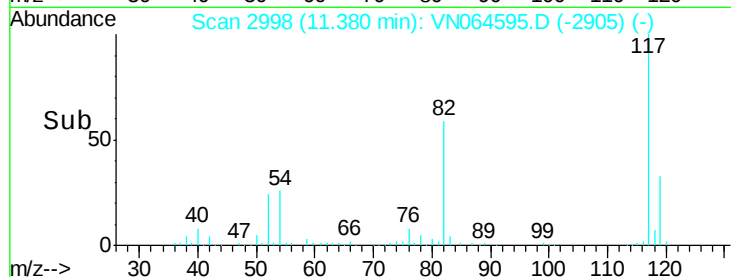
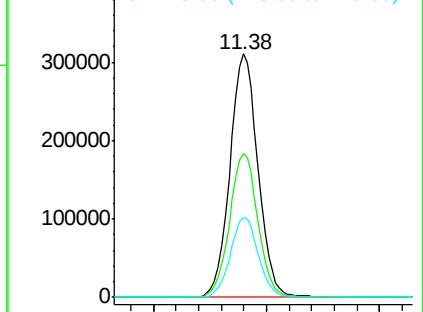
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064595.D
Acq: 12 Nov 2020 20:52

Instrument :
MSVOA_N
ClientSampled :
TP-1-D

Tot Ion:117 Resp: 536024
Ion Ratio Lower Upper
117 100
82 59.0 48.1 72.1
119 32.9 26.2 39.4

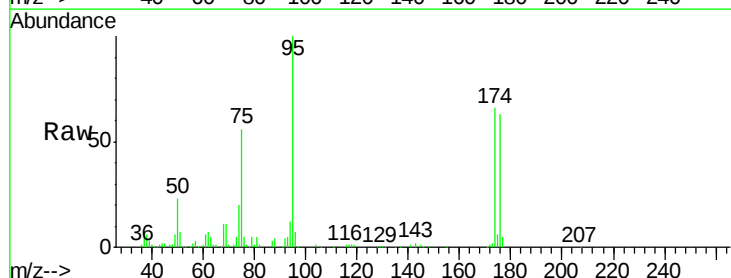


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

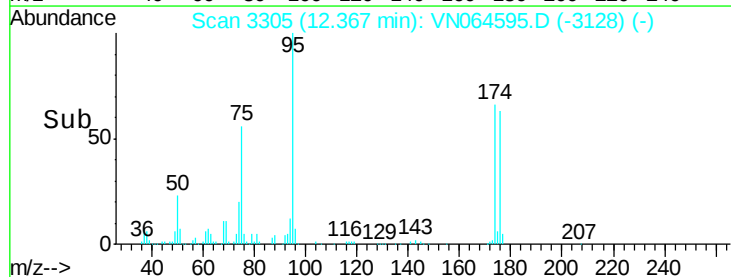
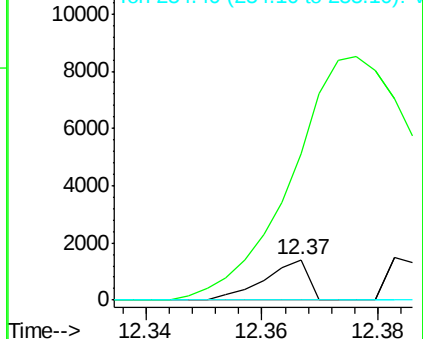


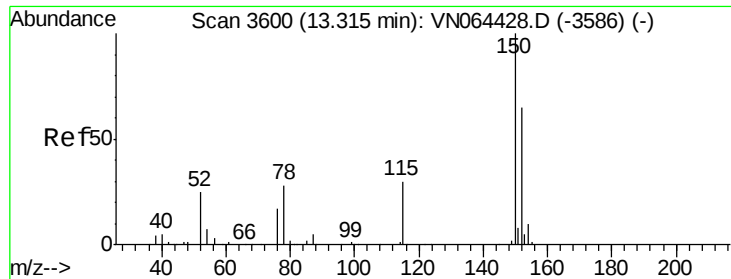
#71
Bromoform
Concen: 1.490 ug/l
RT: 12.37 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN064595.D
Acq: 12 Nov 2020 20:52

Tgt Ion:173 Resp: 725
Ion Ratio Lower Upper
173 100
175 0.0 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: VN064595.D

Acq: 12 Nov 2020 20:52

Instrument :

MSVOA_N

ClientSampleId :

TP-1-D

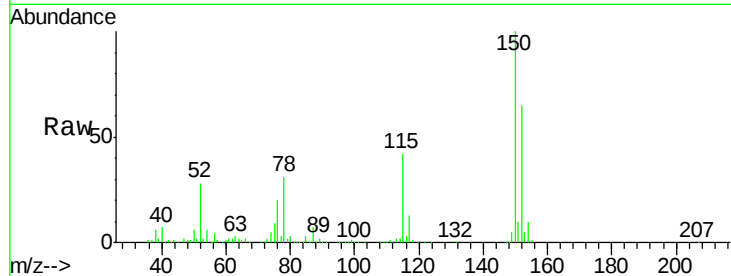
Tot Ion:152 Resp: 190238

Ion Ratio Lower Upper

152 100

115 64.7 32.0 96.0

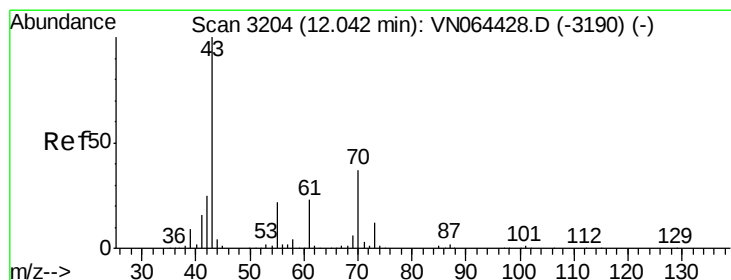
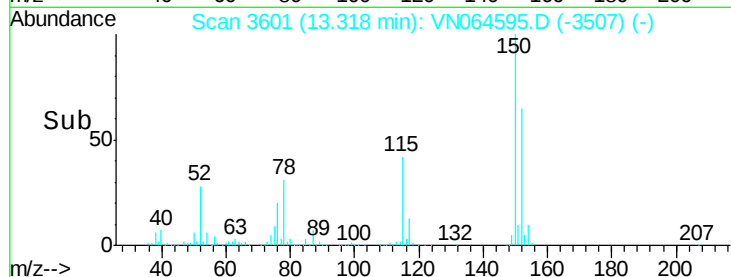
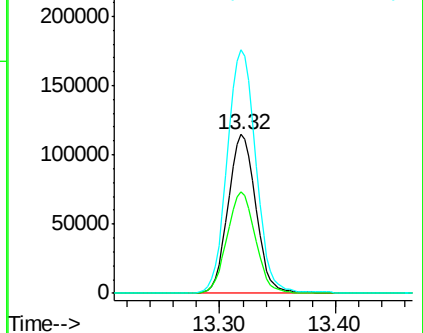
150 157.7 0.0 353.8



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: 4.381 ug/l

RT: 11.85 min Scan# 3145

Delta R.T. -0.19 min

Lab File: VN064595.D

Acq: 12 Nov 2020 20:52

Tgt Ion: 43 Resp: 23798

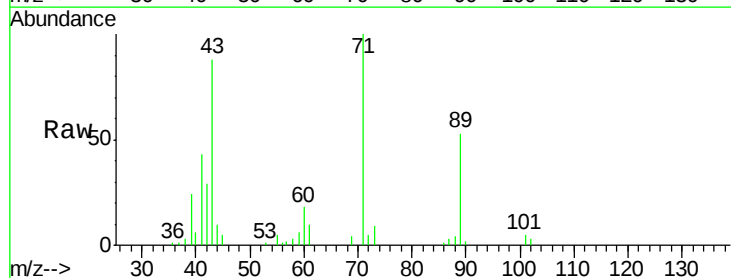
Ion Ratio Lower Upper

43 100

70 2.2 29.6 44.4#

55 8.4 18.4 27.6#

61 10.3 17.8 26.6#

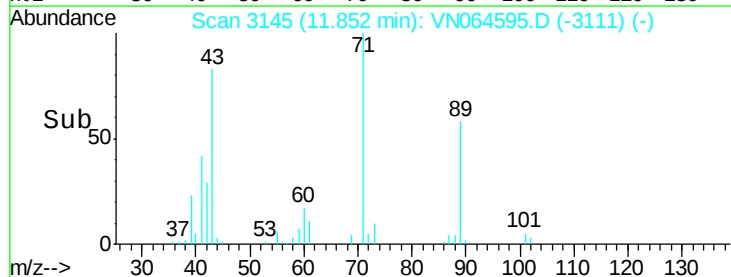
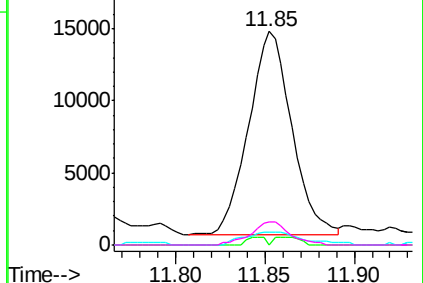


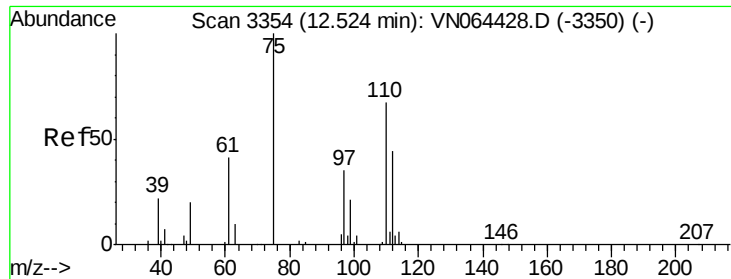
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.188 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064595.D

Acq: 12 Nov 2020 20:52

Instrument :

MSVOA_N

ClientSampleId :

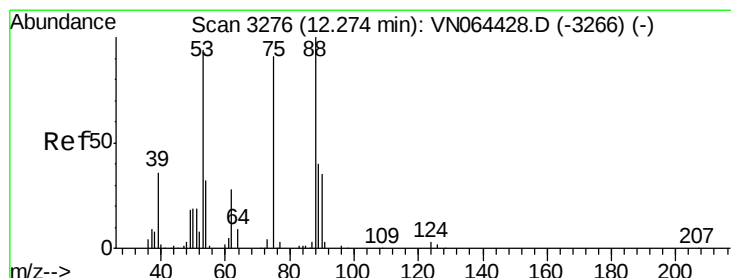
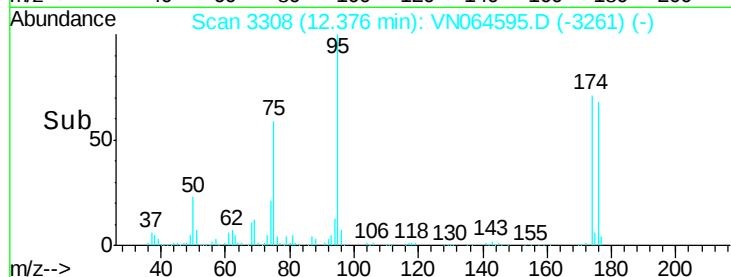
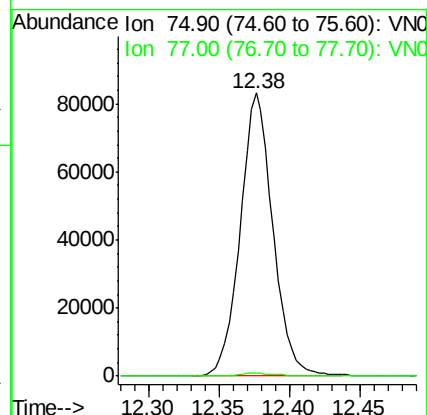
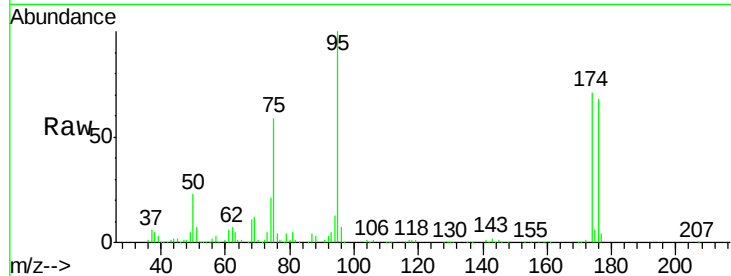
TP-1-D

Tot Ion: 75 Resp: 134538

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.497 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064595.D

Acq: 12 Nov 2020 20:52

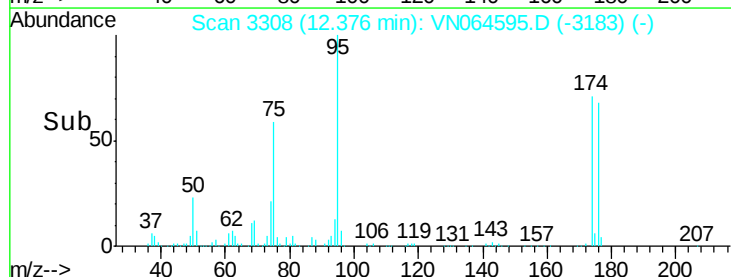
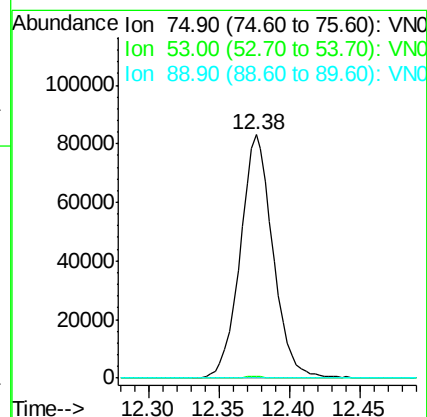
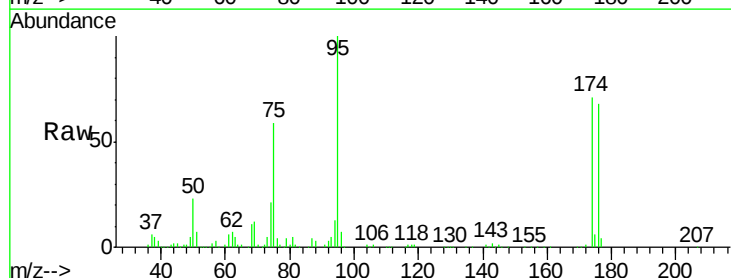
Tgt Ion: 75 Resp: 134538

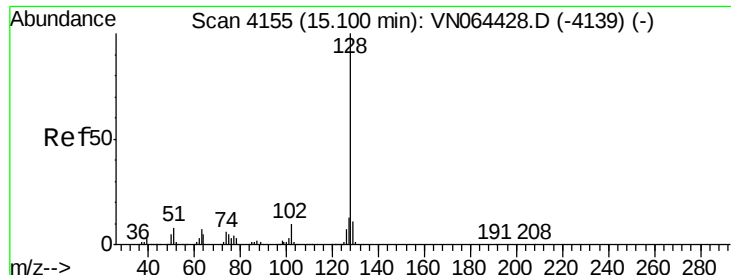
Ion Ratio Lower Upper

75 100

53 0.4 84.0 126.0#

89 0.0 36.3 54.5#





#95

Naphthalene

Concen: 3.637 ug/l

RT: 15.13 min Scan# 4164

Delta R.T. 0.03 min

Lab File: VN064595.D

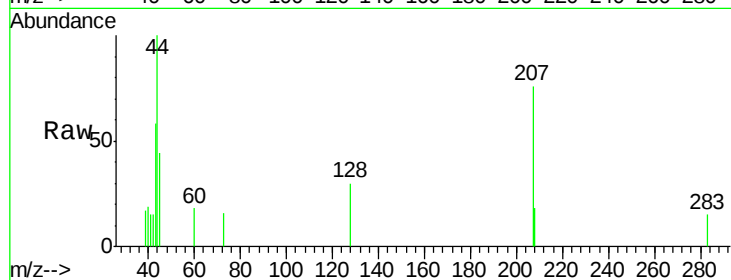
Acq: 12 Nov 2020 20:52

Instrument :

MSVOA_N

ClientSampleId :

TP-1-D



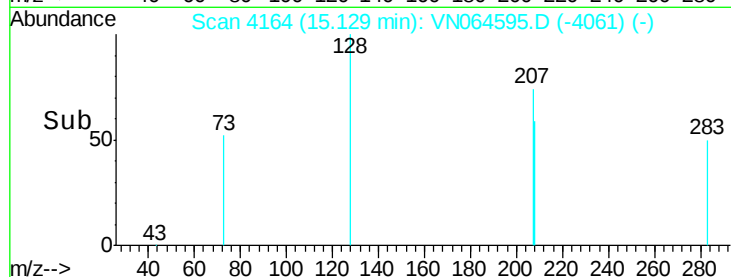
Tot Ion:128 Resp: 161

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

