

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111720\
 Data File : VN064689.D
 Acq On : 17 Nov 2020 18:43
 Operator : JC/MD
 Sample : L4783-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
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Quant Time: Nov 18 01:48:18 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	224789	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	456394	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	472137	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	171345	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	215129	54.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.88%	
35) Dibromofluoromethane	7.55	113	158939	51.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.30%	
50) Toluene-d8	10.06	98	576082	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	
62) 4-Bromofluorobenzene	12.38	95	217444	47.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.74%	

Target Compounds

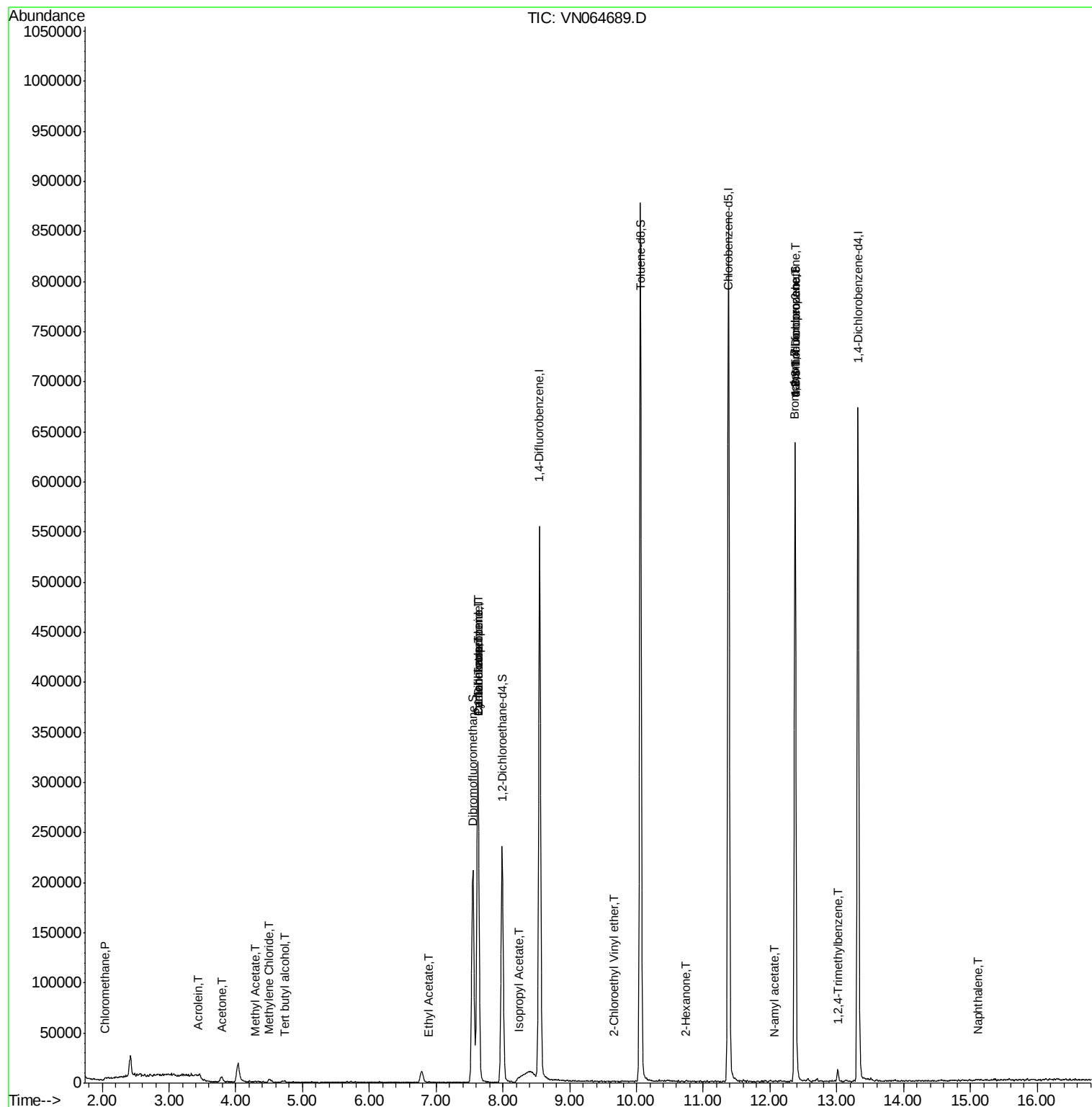
						Qvalue
3) Chloromethane	2.04	50	1516	0.427	ug/l	97
11) Tert butyl alcohol	4.74	59	453	1.049	ug/l #	71
13) Acrolein	3.43	56	78	0.291	ug/l #	1
16) Acetone	3.79	43	8615	5.776	ug/l	98
18) Methyl Acetate	4.29	43	922	0.314	ug/l #	76
20) Methylene Chloride	4.50	84	1779	0.601	ug/l #	67
31) Cyclohexane	7.62	56	6666	1.401	ug/l #	15
36) 1,1-Dichloropropene	7.62	75	20786	4.311	ug/l #	51
37) Ethyl Acetate	6.88	43	125	0.788	ug/l #	71
38) Carbon Tetrachloride	7.62	117	27673	5.370	ug/l #	16
43) Isopropyl Acetate	8.23	43	4526	0.579	ug/l #	64
58) 2-Chloroethyl Vinyl ether	9.67	63	31	21.549	ug/l #	51
59) 2-Hexanone	10.75	43	468	4.152	ug/l #	37
71) Bromoform	12.36	173	316	1.381	ug/l #	29
74) N-amyl acetate	12.05	43	188	1.242	ug/l #	37
76) 1,2,3-Trichloropropane	12.38	75	127388	30.684	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	127388	85.675	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.02	105	6312	0.559	ug/l	79
95) Naphthalene	15.12	128	794	3.701	ug/l #	69

(#) = 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: VN064689.D

Acq: 17 Nov 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

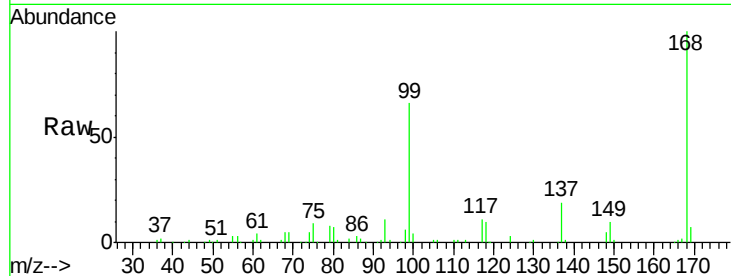
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Tot Ion:168 Resp: 224789

Ion Ratio Lower Upper

168 100

99 66.2 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

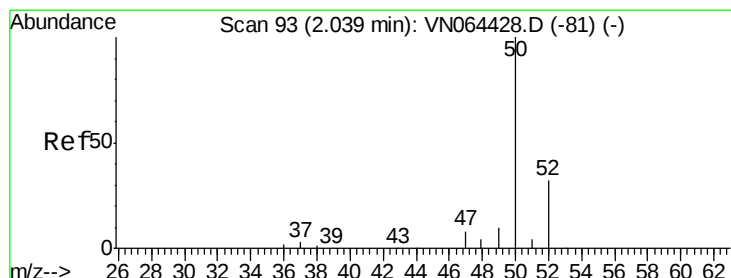
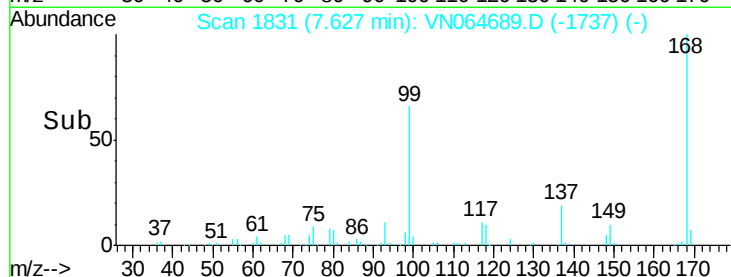
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#3

Chloromethane

Concen: 0.427 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.00 min

Lab File: VN064689.D

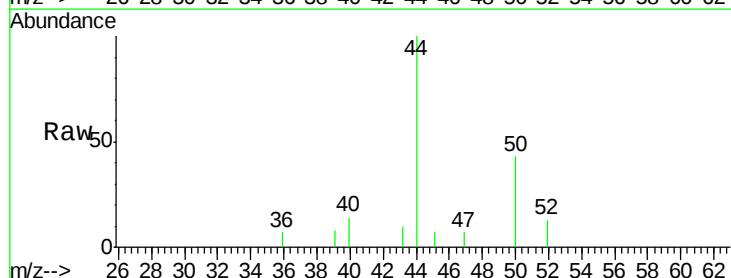
Acq: 17 Nov 2020 18:43

Tgt Ion: 50 Resp: 1516

Ion Ratio Lower Upper

50 100

52 30.1 25.3 37.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1200

1000

800

600

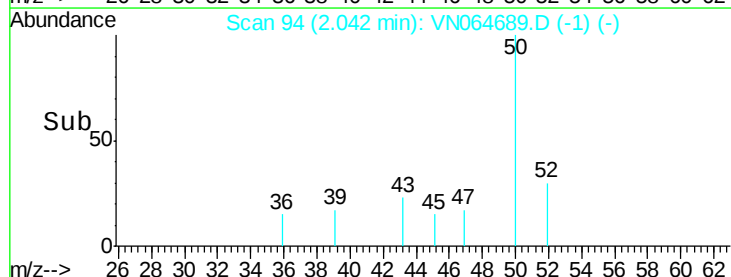
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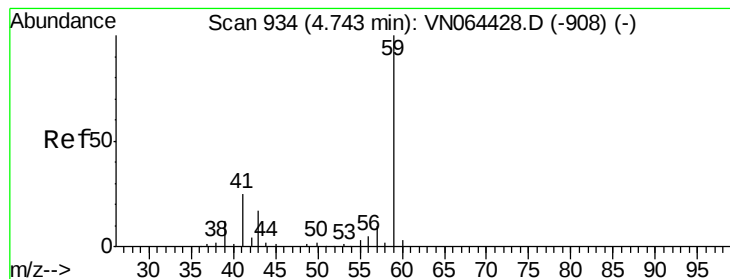
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0

2.00 2.05

Time-->



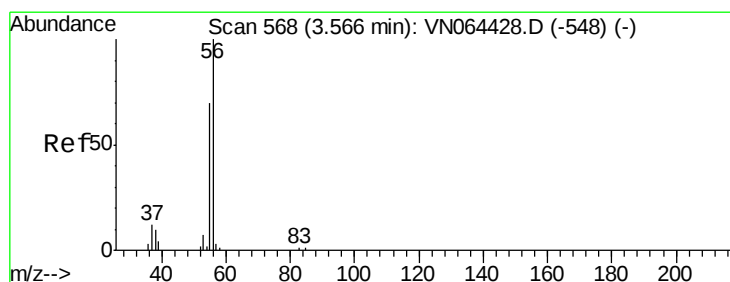
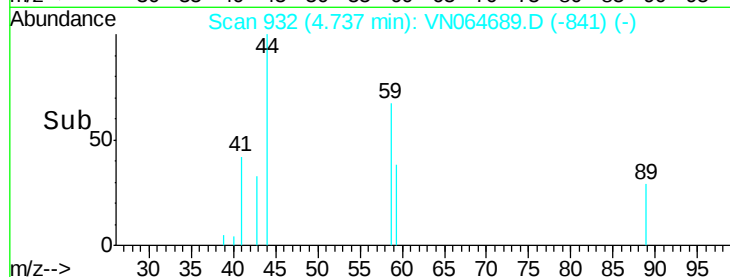
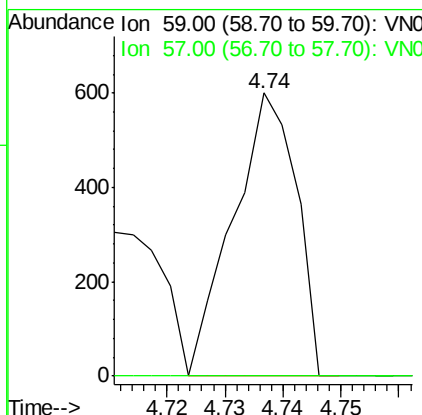
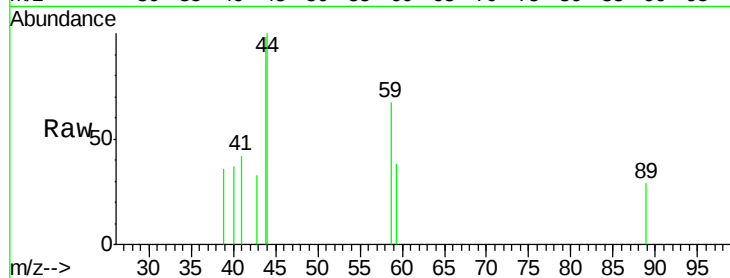


#11

Tert butyl alcohol
 Concen: 1.049 ug/l
 RT: 4.74 min Scan# 932
 Delta R.T. -0.01 min
 Lab File: VN064689.D
 Acq: 17 Nov 2020 18:43

Instrument :
 MSVOA_N
 ClientSampleId :
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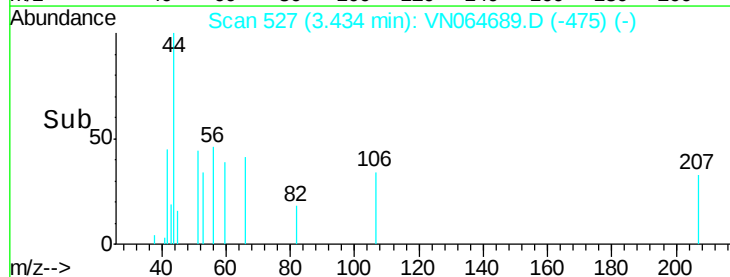
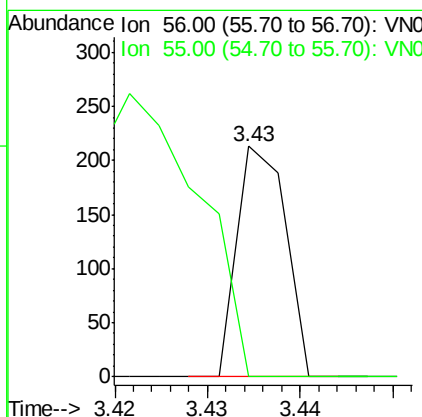
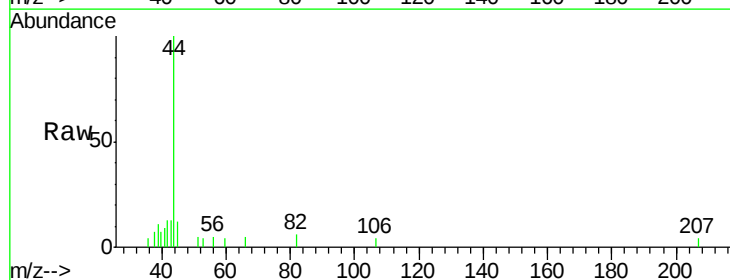
Tot Ion: 59 Resp: 453
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4#

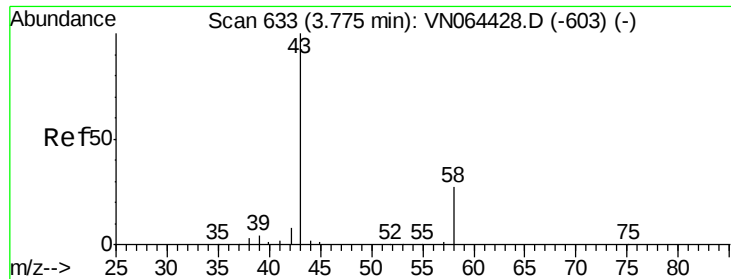


#13

Acrolein
 Concen: 0.291 ug/l
 RT: 3.43 min Scan# 527
 Delta R.T. -0.13 min
 Lab File: VN064689.D
 Acq: 17 Nov 2020 18:43

Tgt Ion: 56 Resp: 78
 Ion Ratio Lower Upper
 56 100
 55 253.8 55.9 83.9#

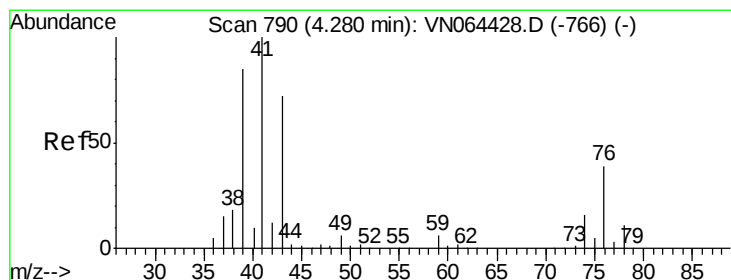
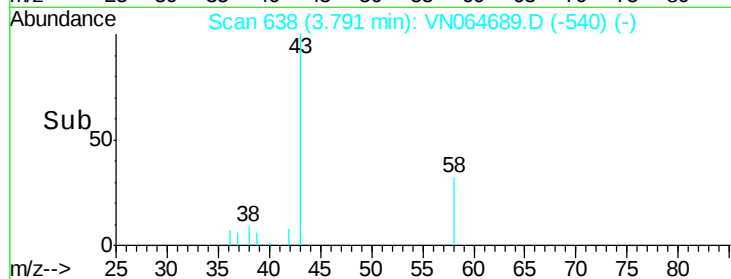
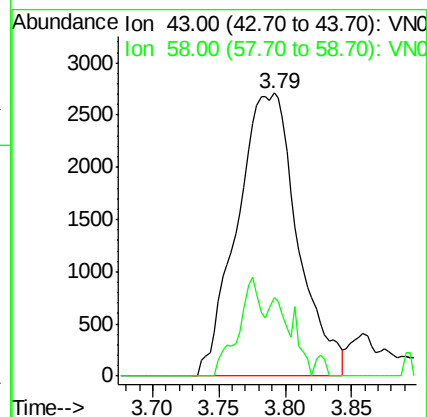
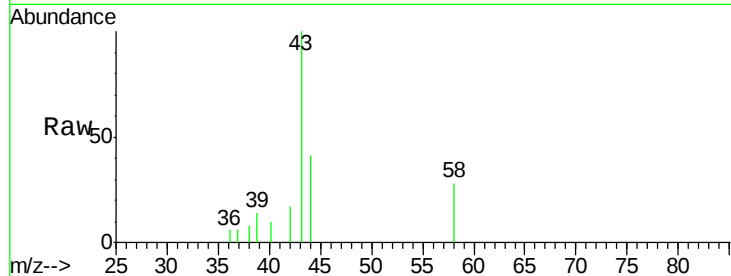




#16
Acetone
Concen: 5.776 ug/l
RT: 3.79 min Scan# 638
Delta R.T. 0.02 min
Lab File: VN064689.D
Acq: 17 Nov 2020 18:43

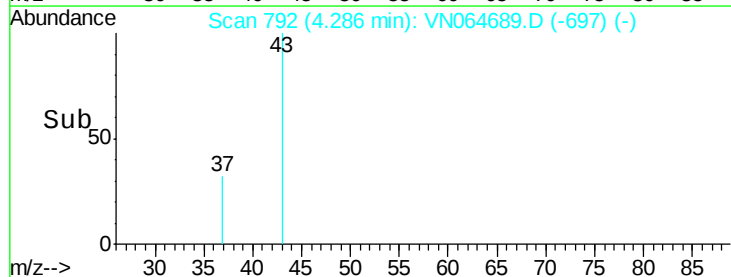
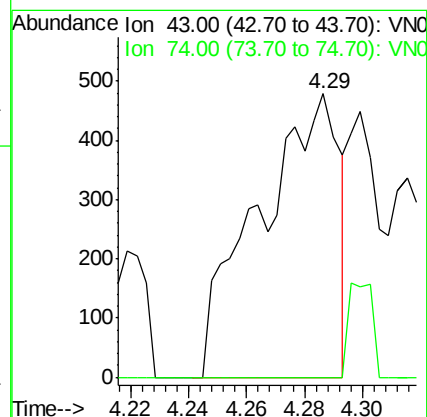
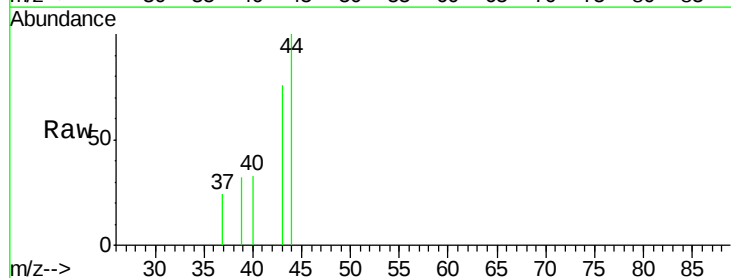
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ClientSampleId :
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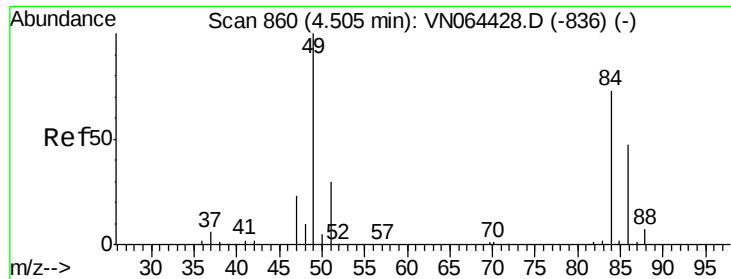
Tot Ion: 43 Resp: 8615
Ion Ratio Lower Upper
43 100
58 27.7 21.4 32.0



#18
Methyl Acetate
Concen: 0.314 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN064689.D
Acq: 17 Nov 2020 18:43

Tgt Ion: 43 Resp: 922
Ion Ratio Lower Upper
43 100
74 9.9 17.0 25.4#

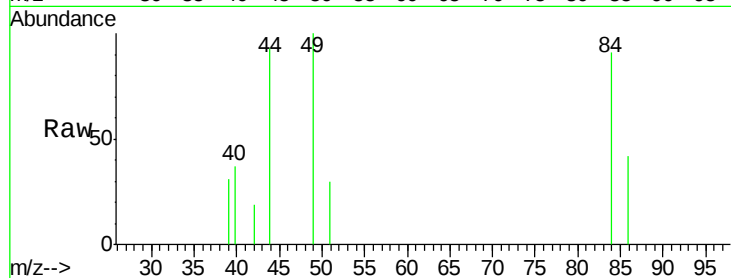




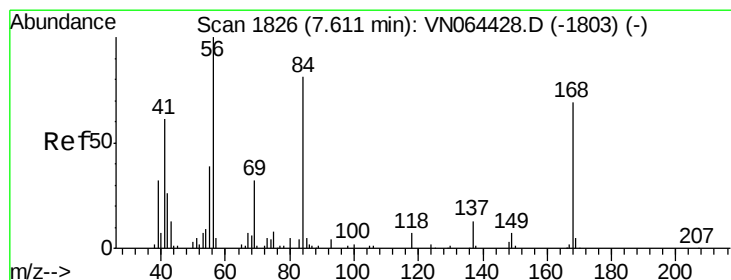
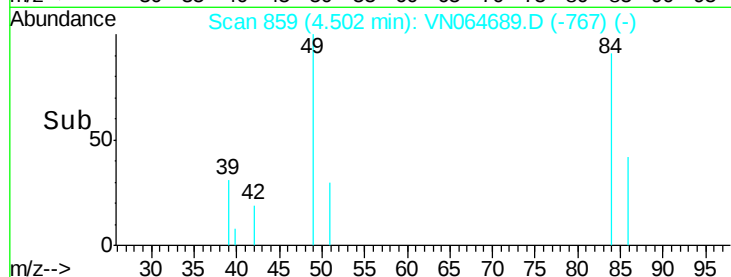
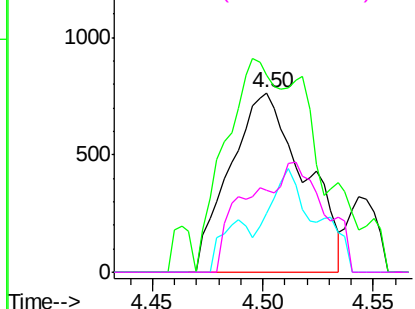
#20
Methvlene Chloride
Concen: 0.601 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064689.D
Acq: 17 Nov 2020 18:43

Instrument :
MSVOA_N
ClientSampled :
FIELD-BLANK

Tot Ion: 84 Resp: 1779
Ion Ratio Lower Upper
84 100
49 86.9 110.1 165.1#
51 32.6 33.6 50.4#
86 46.1 52.1 78.1#

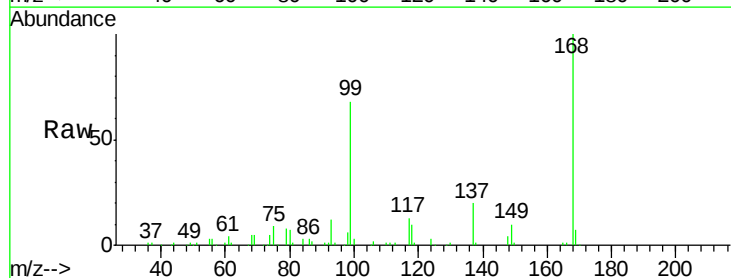


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

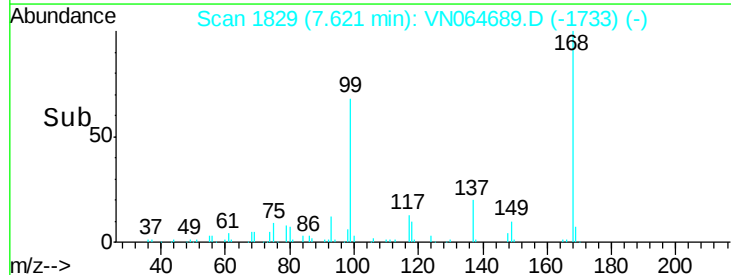
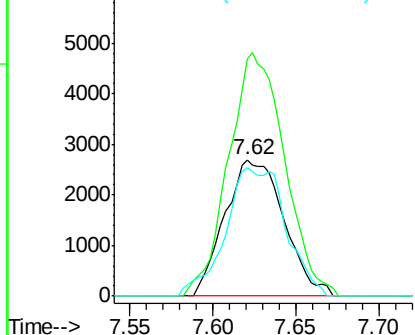


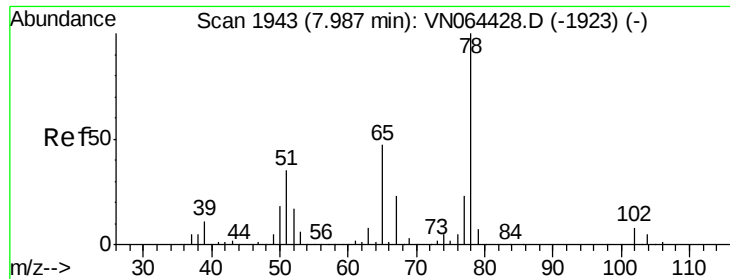
#31
Cyclohexane
Concen: 1.401 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN064689.D
Acq: 17 Nov 2020 18:43

Tgt Ion: 56 Resp: 6666
Ion Ratio Lower Upper
56 100
69 173.3 25.6 38.4#
84 93.7 63.0 94.6



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

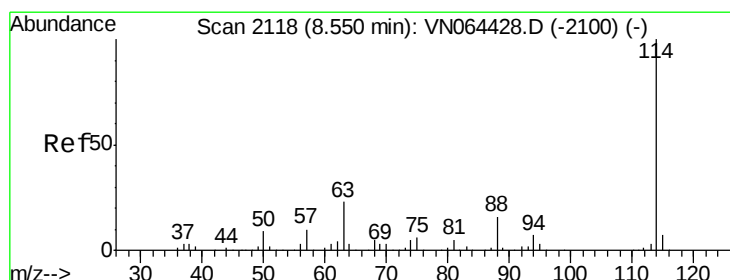
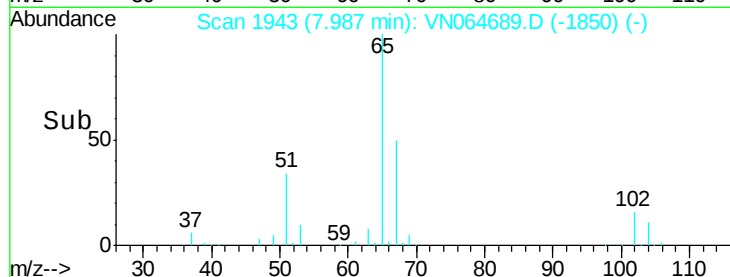
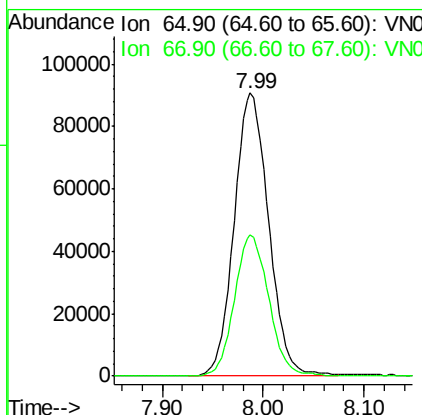
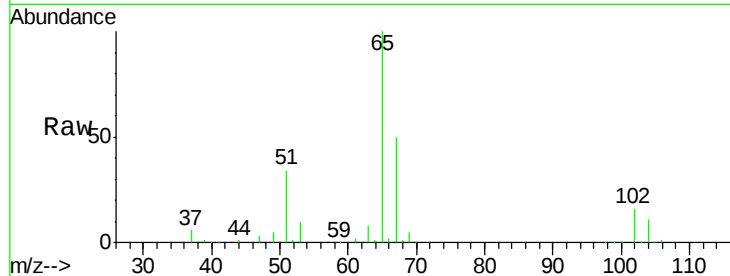




#33
 1,2-Dichloroethane-d4
 Concen: 54.943 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064689.D
 Acq: 17 Nov 2020 18:43

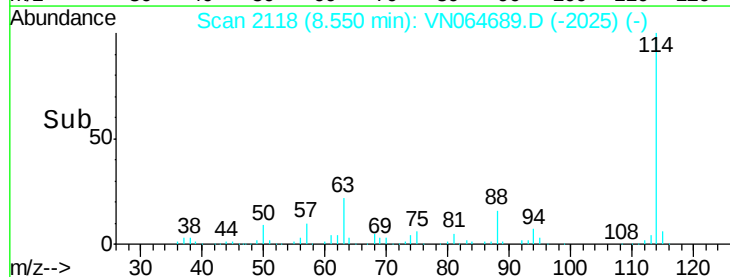
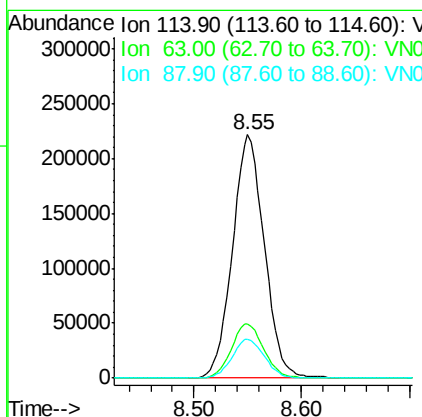
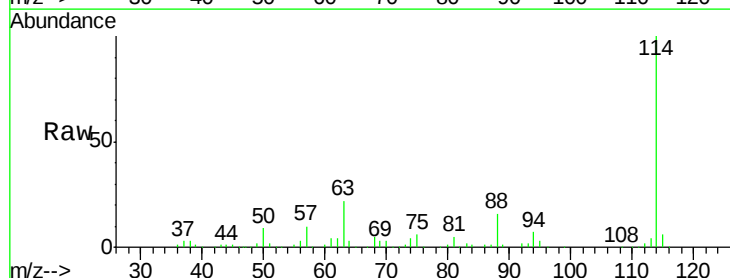
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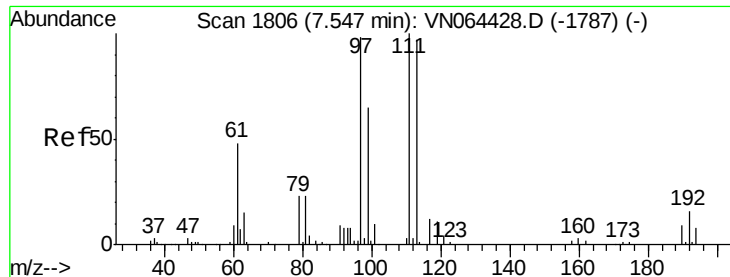
Tot Ion: 65 Resp: 215129
 Ion Ratio Lower Upper
 65 100
 67 49.7 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064689.D
 Acq: 17 Nov 2020 18:43

Tgt Ion: 114 Resp: 456394
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.6
 88 16.0 0.0 32.8

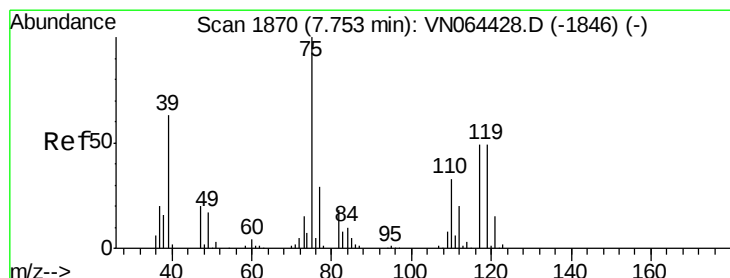
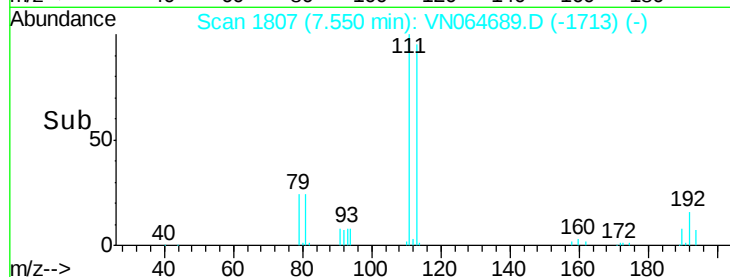
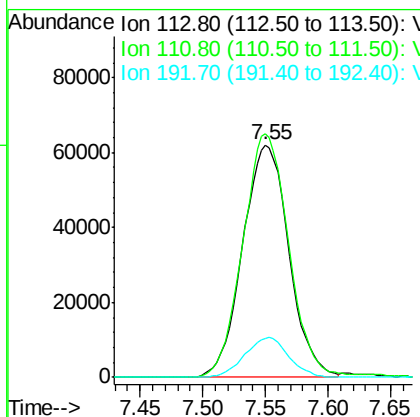
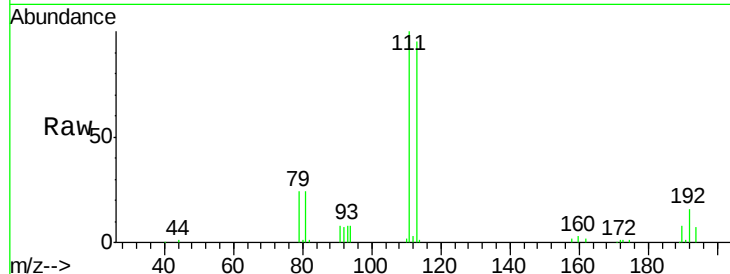




#35
 Dibromofluoromethane
 Concen: 51.148 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064689.D
 Acq: 17 Nov 2020 18:43

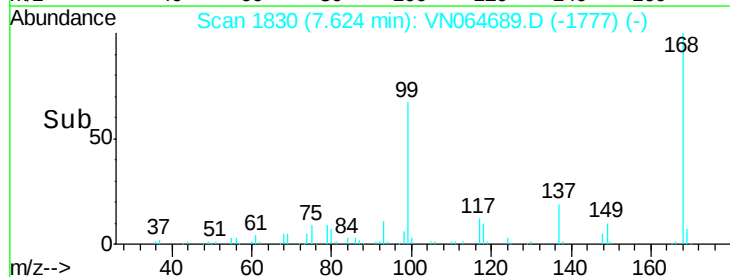
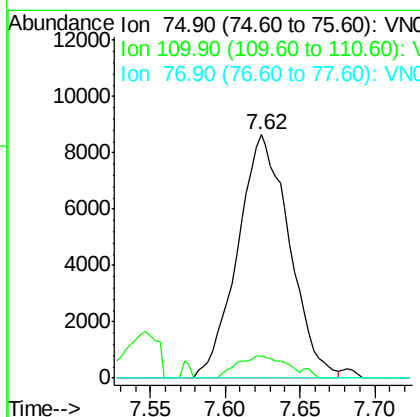
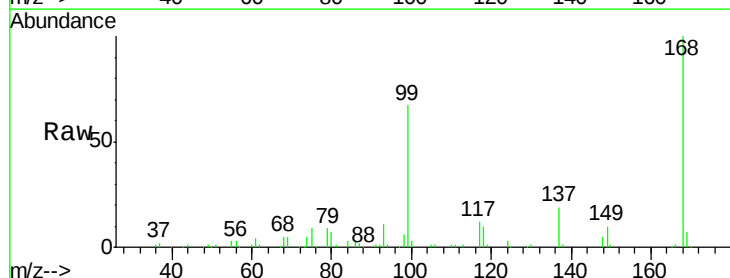
Instrument :
 MSVOA_N
 ClientSampleId :
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Tot Ion:113 Resp: 158939
 Ion Ratio Lower Upper
 113 100
 111 104.5 81.1 121.7
 192 16.4 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.311 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064689.D
 Acq: 17 Nov 2020 18:43

Tgt Ion: 75 Resp: 20786
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.0 48.0#
 77 0.0 24.0 36.0#

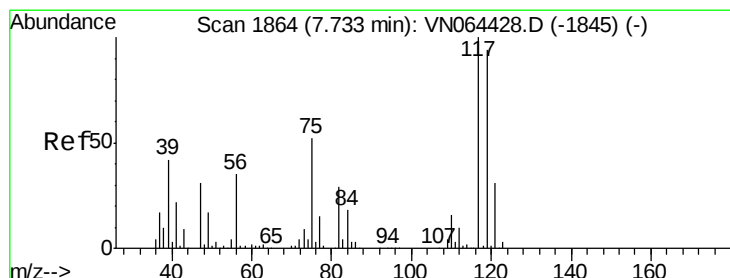
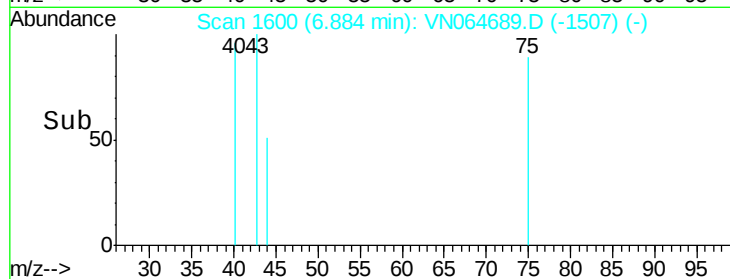
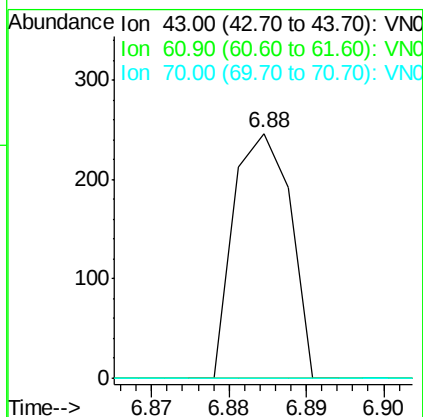
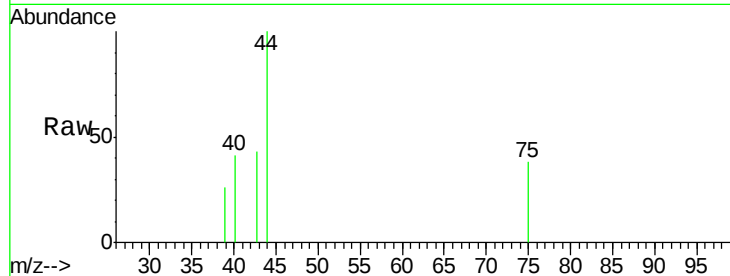




#37
Ethyl Acetate
Concen: 0.788 ug/l
RT: 6.88 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VN064689.D
Acq: 17 Nov 2020 18:43

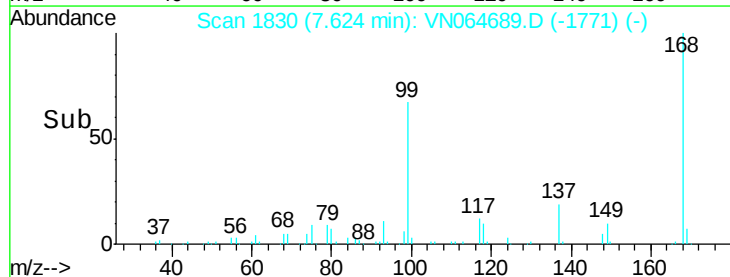
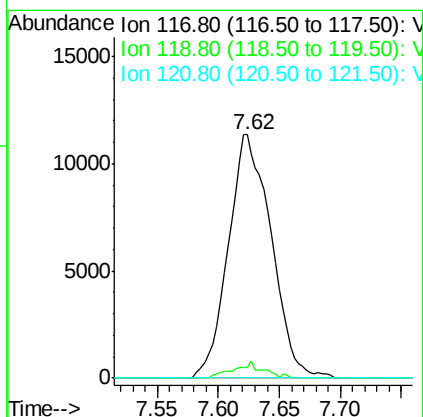
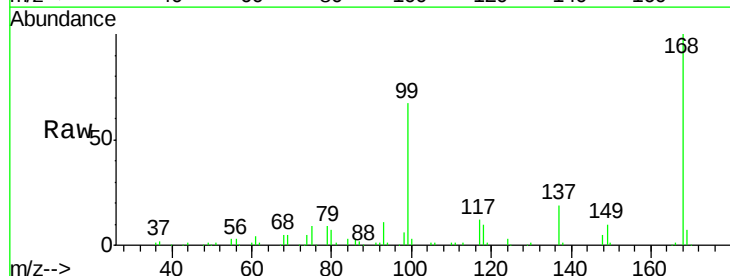
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MSVOA_N
ClientSampleId :
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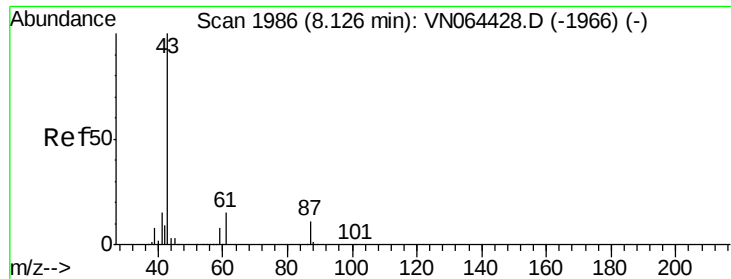
Tot Ion: 43 Resp: 125
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 5.370 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN064689.D
Acq: 17 Nov 2020 18:43

Tgt Ion: 117 Resp: 27673
Ion Ratio Lower Upper
117 100
119 4.3 75.5 113.3#
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 0.579 ug/l

RT: 8.23 min Scan# 2020

Delta R.T. 0.11 min

Lab File: VN064689.D

Acq: 17 Nov 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

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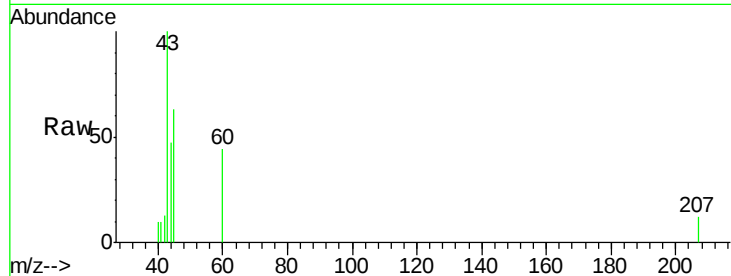
Tot Ion: 43 Resp: 4526

Ion Ratio Lower Upper

43 100

61 0.0 14.0 21.0#

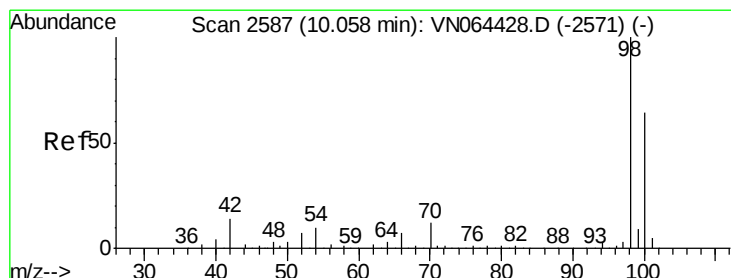
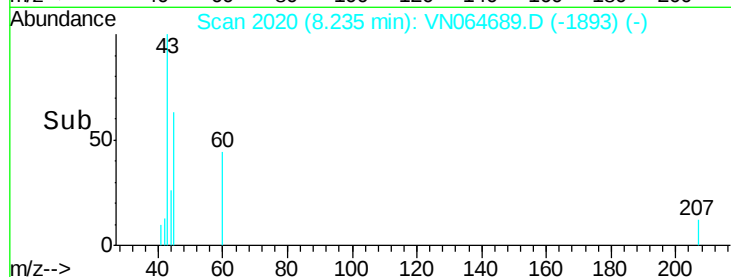
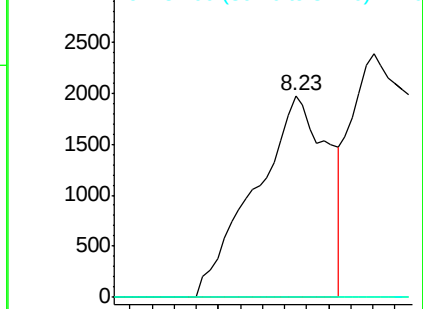
87 0.0 9.1 13.7#



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

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

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



#50

Toluene-d8

Concen: 47.966 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064689.D

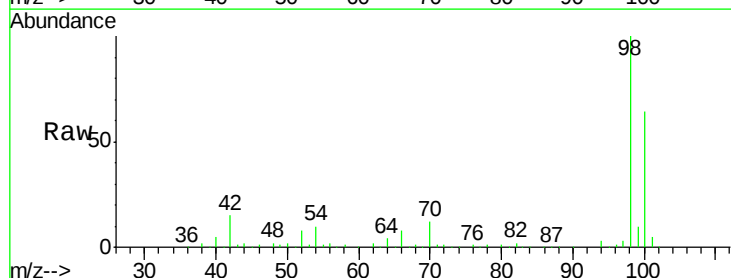
Acq: 17 Nov 2020 18:43

Tgt Ion: 98 Resp: 576082

Ion Ratio Lower Upper

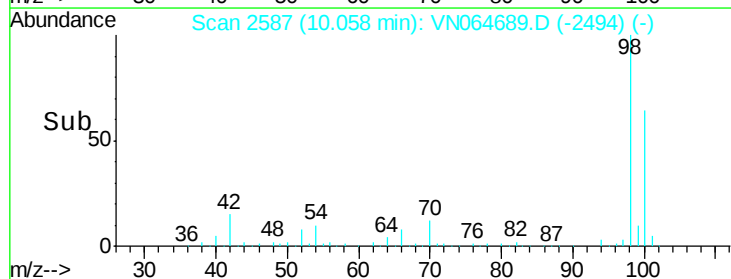
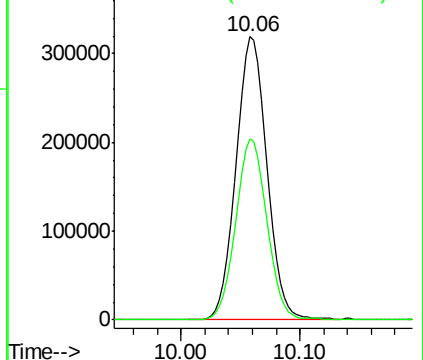
98 100

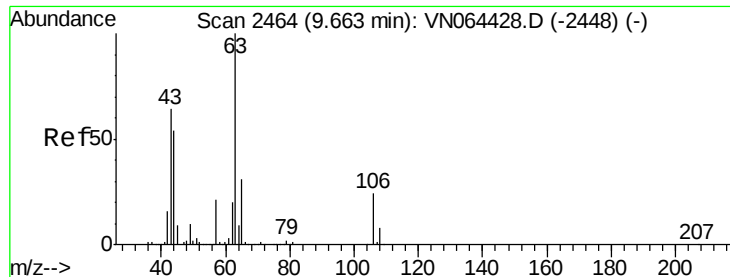
100 64.5 50.7 76.1



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

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

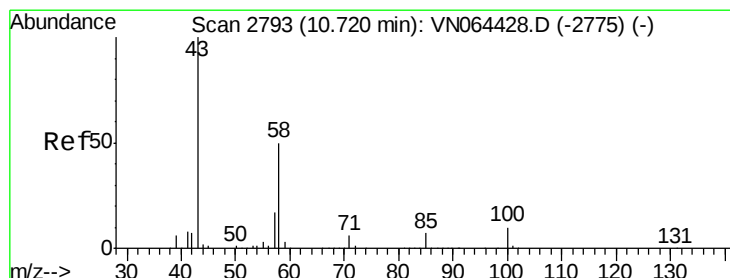
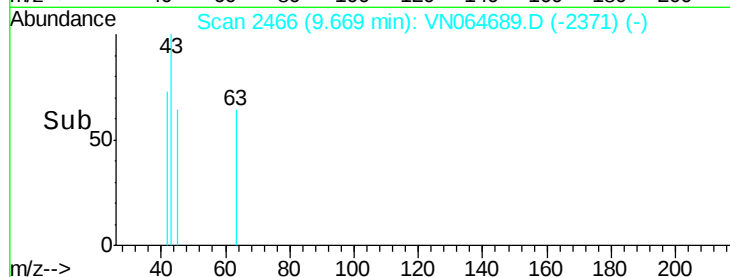
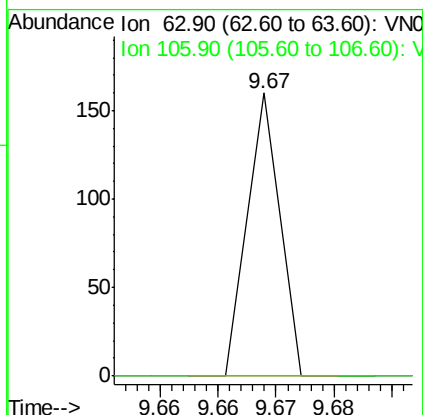
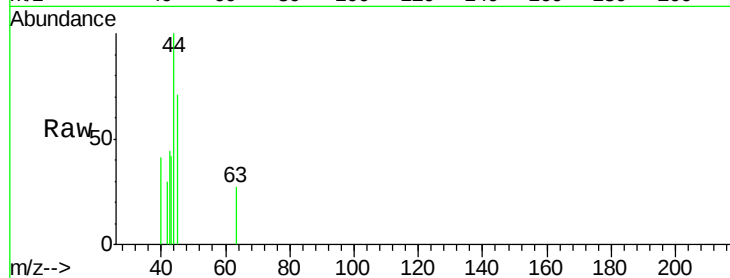




#58
2-Chloroethyl Vinyl ether
Concen: 21.549 ug/l
RT: 9.67 min Scan# 2466
Delta R.T. 0.01 min
Lab File: VN064689.D
Acq: 17 Nov 2020 18:43

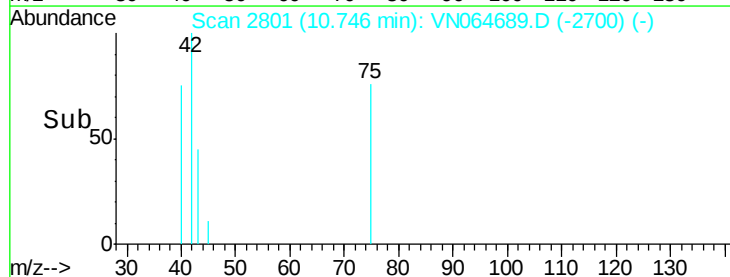
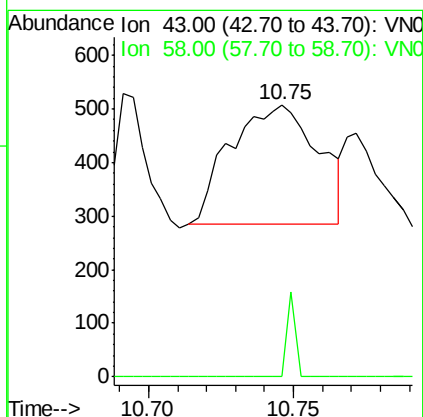
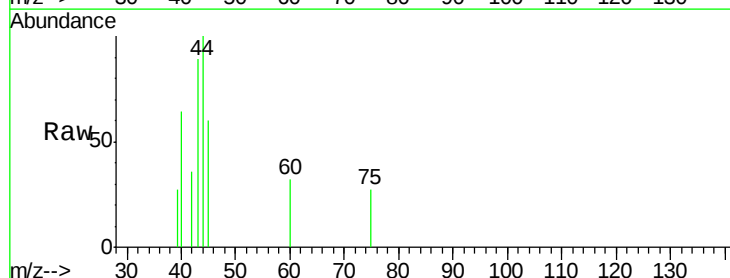
Instrument :
MSVOA_N
ClientSampleId :
FIELD-BLANK

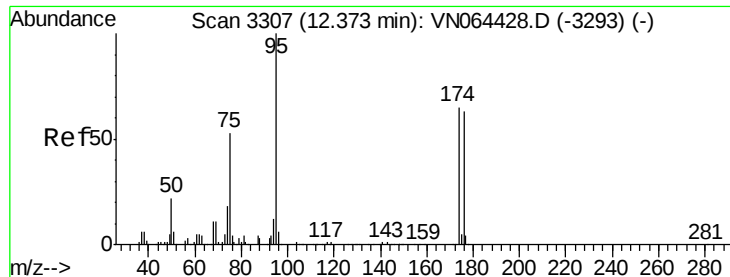
Tot Ion: 63 Resp: 31
Ion Ratio Lower Upper
63 100
106 0.0 19.5 29.3#



#59
2-Hexanone
Concen: 4.152 ug/l
RT: 10.75 min Scan# 2801
Delta R.T. 0.03 min
Lab File: VN064689.D
Acq: 17 Nov 2020 18:43

Tgt Ion: 43 Resp: 468
Ion Ratio Lower Upper
43 100
58 6.4 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 47.873 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064689.D

Acq: 17 Nov 2020 18:43

Instrument :

MSVOA_N

ClientSampleId :

FIELD-BLANK

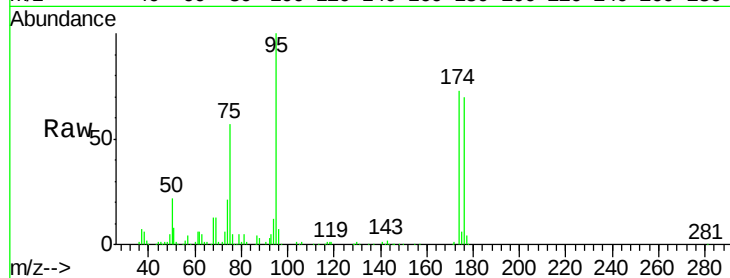
Tot Ion: 95 Resp: 217444

Ion Ratio Lower Upper

95 100

174 71.5 0.0 132.6

176 66.9 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) (-)

12.38

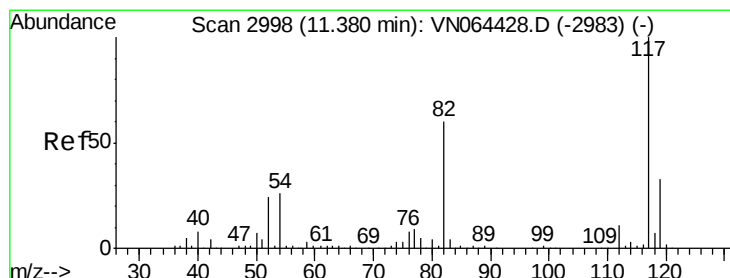
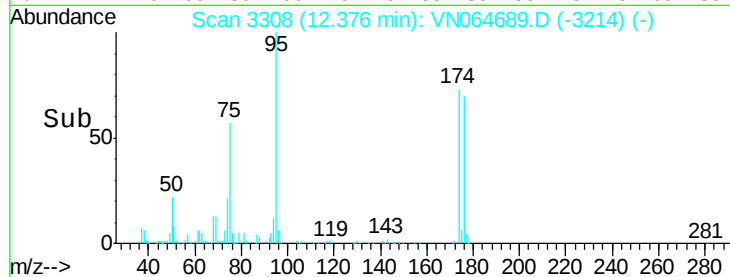
100000

50000

0

12.30 12.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064689.D

Acq: 17 Nov 2020 18:43

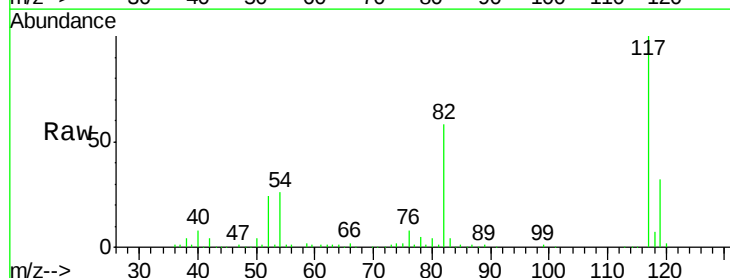
Tgt Ion: 117 Resp: 472137

Ion Ratio Lower Upper

117 100

82 58.3 48.1 72.1

119 31.8 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) (-)

11.38

300000

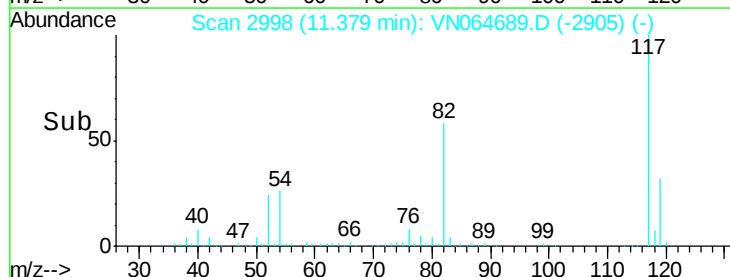
200000

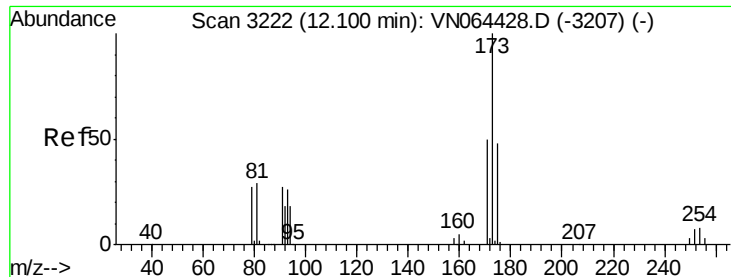
100000

0

11.30 11.40

Time-->





#71

Bromoform

Concen: 1.381 ug/l

RT: 12.36 min Scan# 3304

Delta R.T. 0.26 min

Lab File: VN064689.D

Acq: 17 Nov 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

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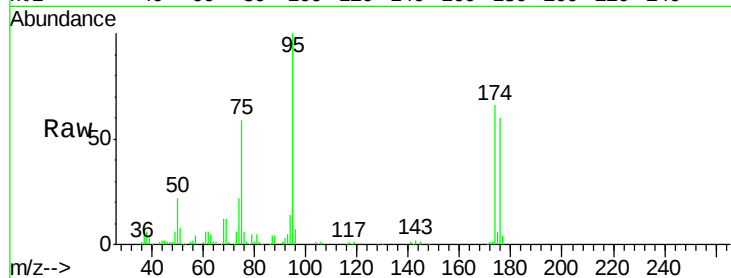
Tot Ion:173 Resp: 316

Ion Ratio Lower Upper

173 100

175 0.0 23.7 71.1#

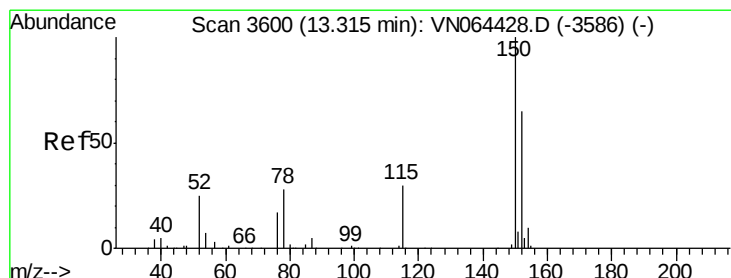
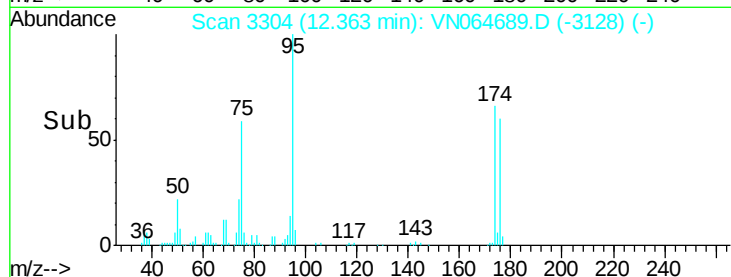
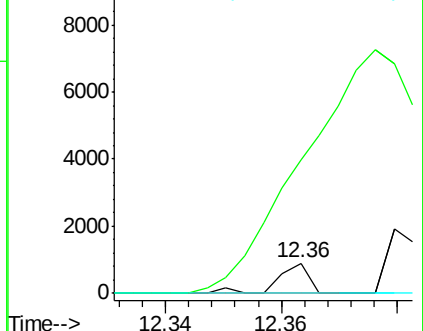
254 0.0 0.0 0.0



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: VN064689.D

Acq: 17 Nov 2020 18:43

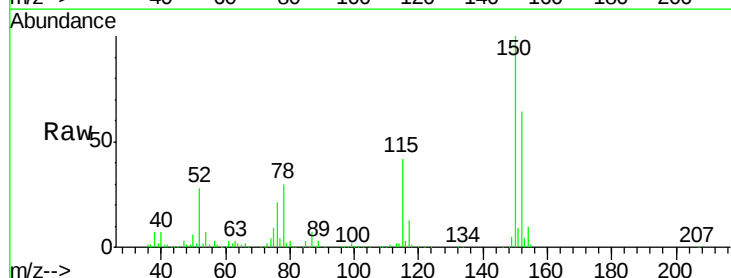
Tgt Ion:152 Resp: 171345

Ion Ratio Lower Upper

152 100

115 65.8 32.0 96.0

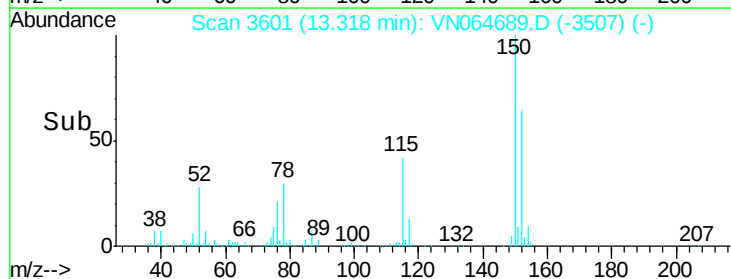
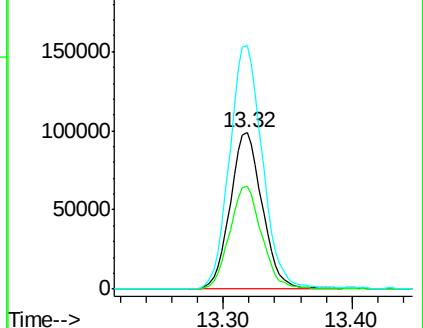
150 158.6 0.0 353.8

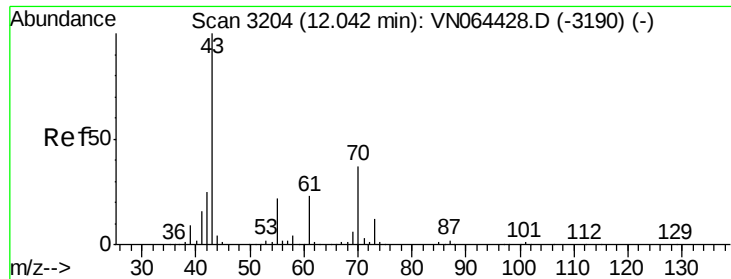


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.242 ug/l

RT: 12.05 min Scan# 3208

Delta R.T. 0.01 min

Lab File: VN064689.D

Acq: 17 Nov 2020 18:43

Instrument :

MSVOA_N

ClientSampled :

FIELD-BLANK

Tot Ion: 43 Resp: 188

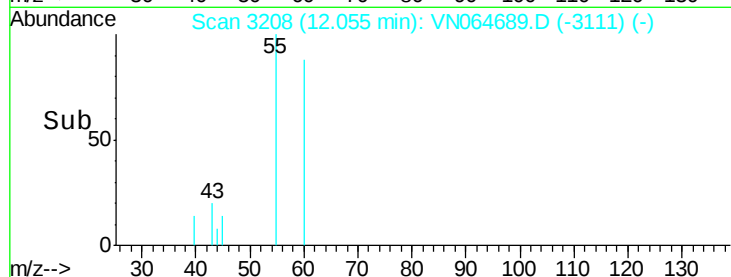
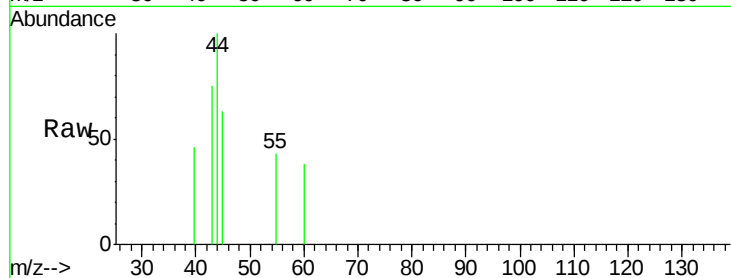
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 61.2 18.4 27.6#

61 0.0 17.8 26.6#

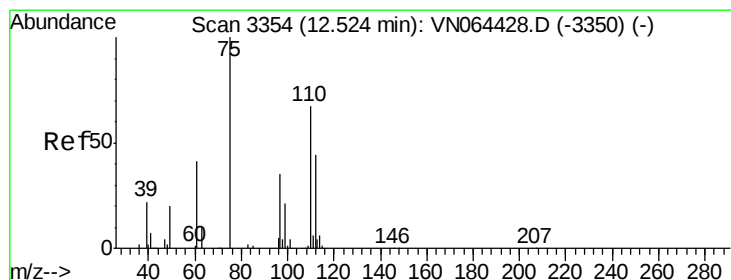
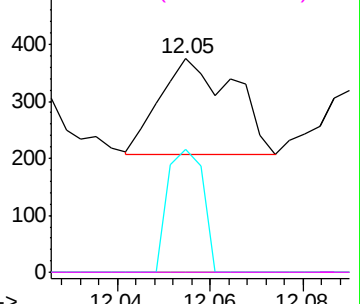


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.684 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064689.D

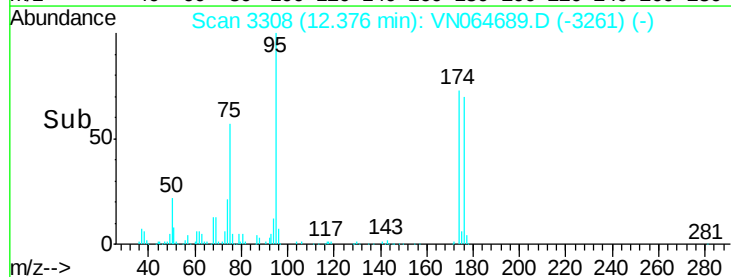
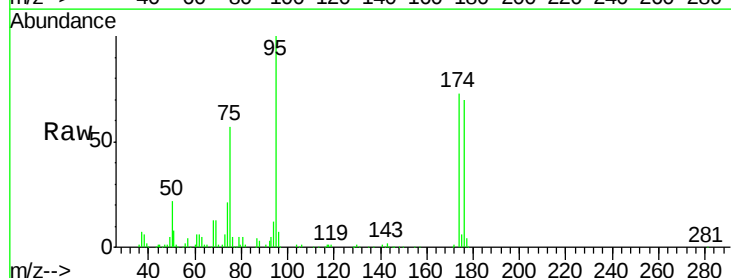
Acq: 17 Nov 2020 18:43

Tgt Ion: 75 Resp: 127388

Ion Ratio Lower Upper

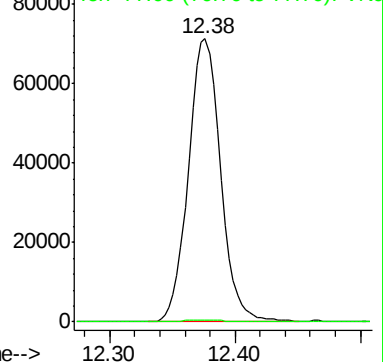
75 100

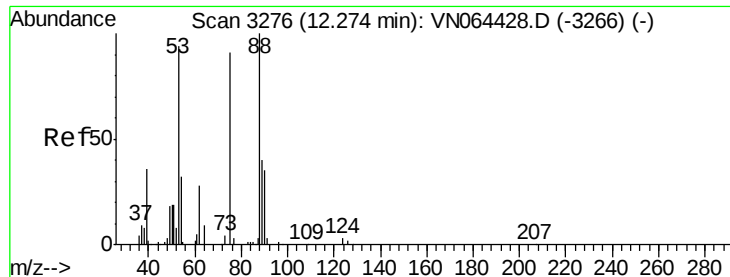
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

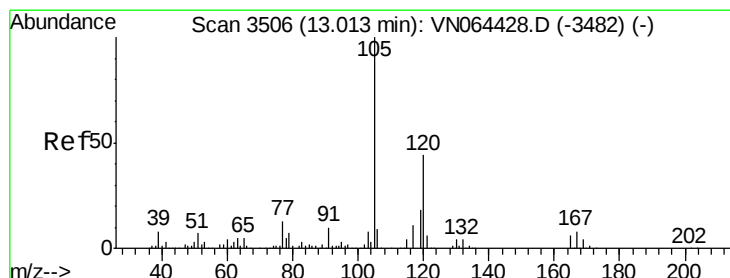
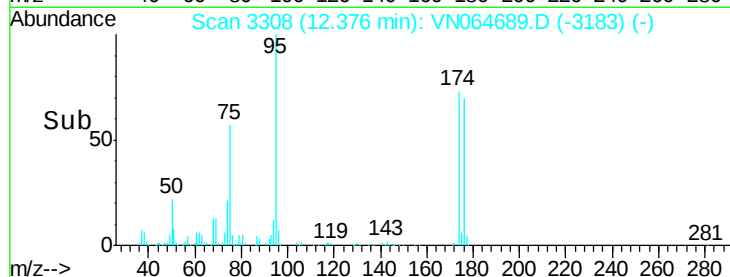
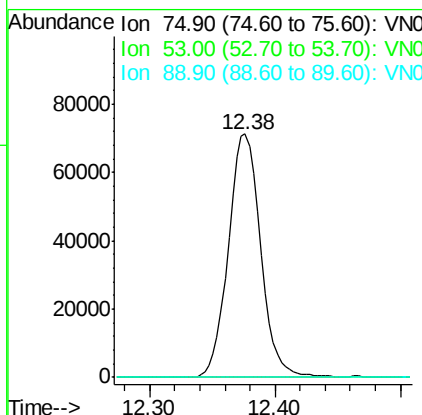
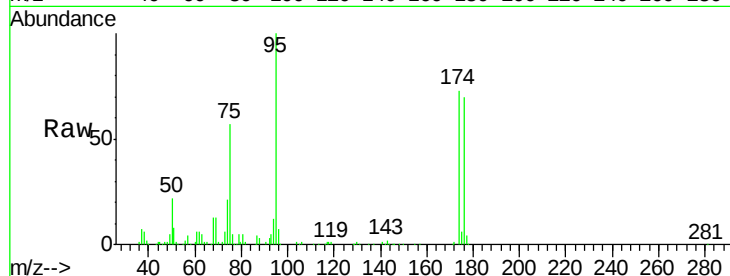




#81
trans-1,4-Dichloro-2-butene
Concen: 85.675 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN064689.D
Acq: 17 Nov 2020 18:43

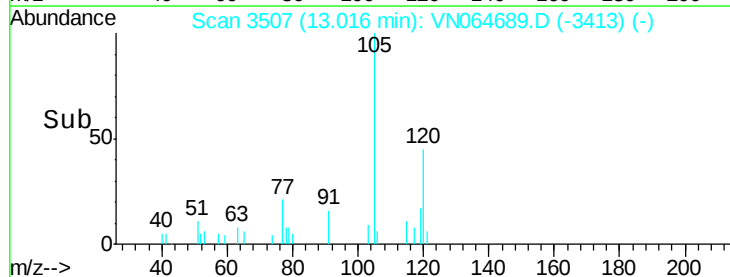
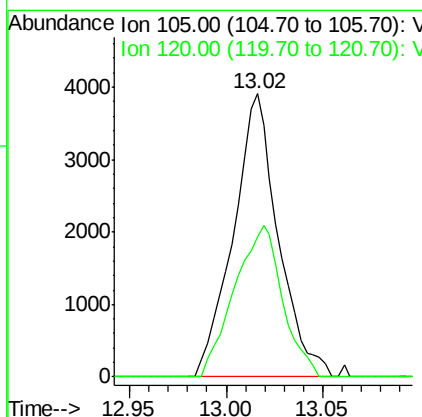
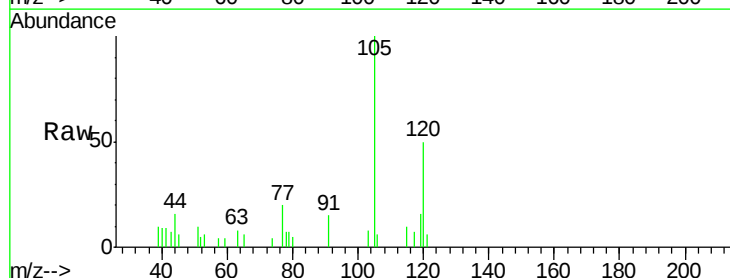
Instrument :
MSVOA_N
ClientSampled :
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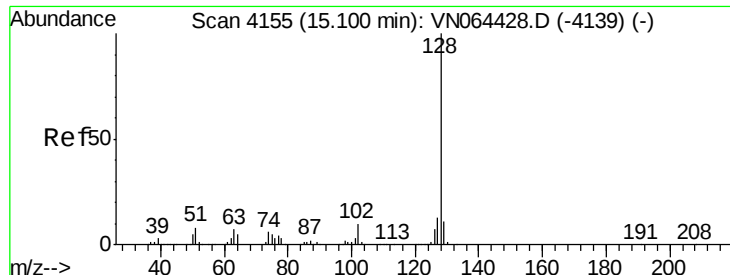
Tot Ion: 75 Resp: 127388
Ion Ratio Lower Upper
75 100
53 0.2 84.0 126.0#
89 0.0 36.3 54.5#



#84
1,2,4-Trimethylbenzene
Concen: 0.559 ug/l
RT: 13.02 min Scan# 3507
Delta R.T. 0.00 min
Lab File: VN064689.D
Acq: 17 Nov 2020 18:43

Tgt Ion: 105 Resp: 6312
Ion Ratio Lower Upper
105 100
120 57.1 21.9 65.7

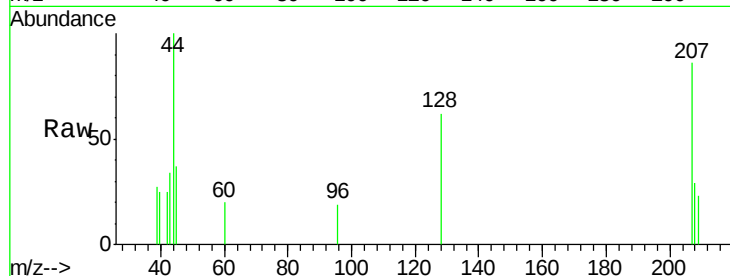




#95
Naphthalene
Concen: 3.701 ug/l
RT: 15.12 min Scan# 4160
Delta R.T. 0.02 min
Lab File: VN064689.D
Acq: 17 Nov 2020 18:43

Instrument :
MSVOA_N
ClientSampleId :
FIELD-BLANK

Tot 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

