

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072920\
 Data File : VN062651.D
 Acq On : 29 Jul 2020 13:50
 Operator : JC/MD
 Sample : PB130572ZHE#16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 30 03:02:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	153156	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	273943	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	279764	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	102447	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	129346	54.37	ug/l	0.00
Spiked Amount			Recovery	=	108.74%	
35) Dibromofluoromethane	7.55	113	89449	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
50) Toluene-d8	10.06	98	371243	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
62) 4-Bromofluorobenzene	12.38	95	134110	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	

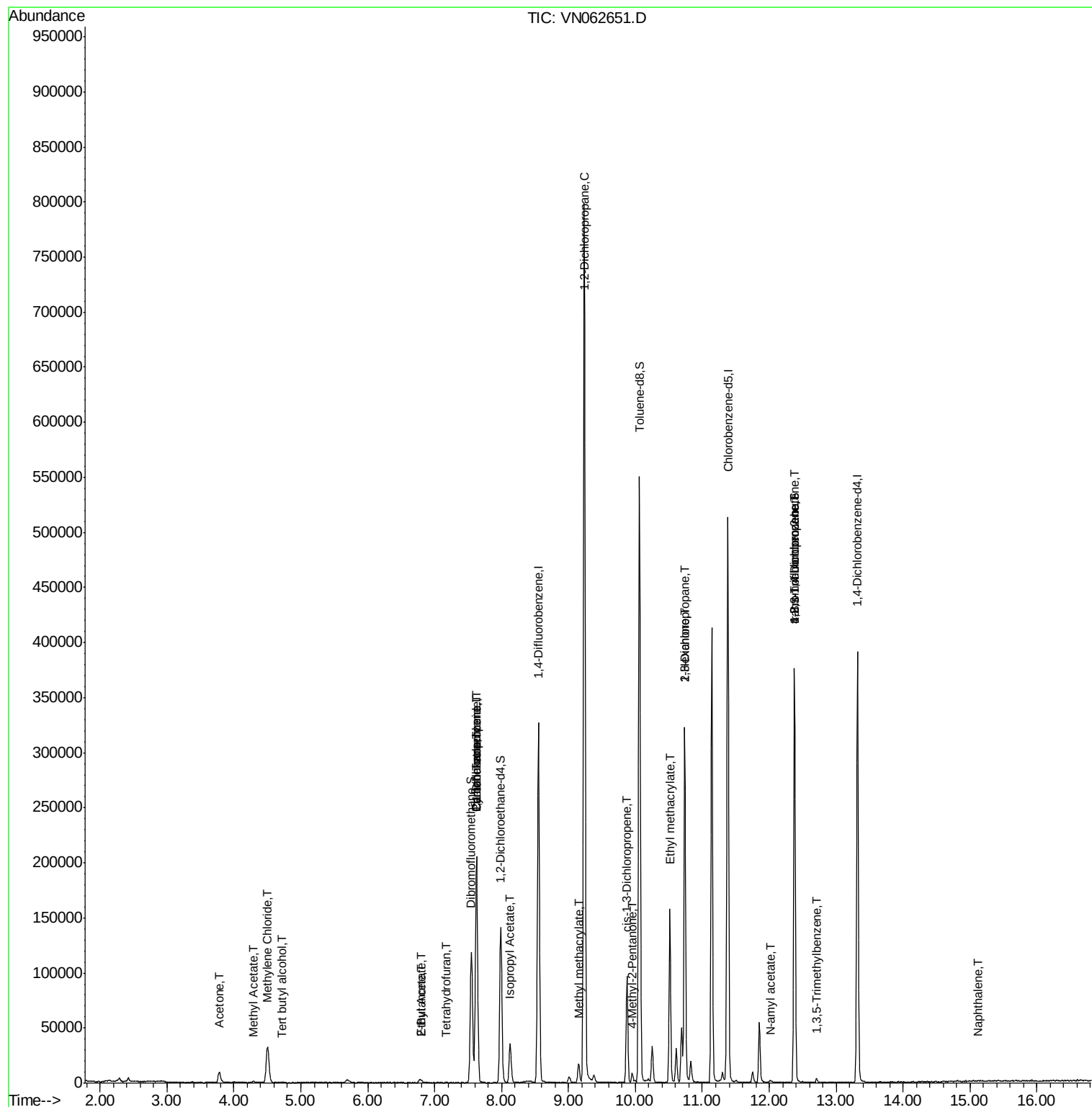
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	147	0.388	ug/l #	73
16) Acetone	3.78	43	16801	18.766	ug/l	95
18) Methyl Acetate	4.29	43	2471	1.090	ug/l #	75
20) Methylene Chloride	4.50	84	23830	11.098	ug/l	97
25) 2-Butanone	6.81	43	2481	1.820	ug/l	95
29) Tetrahydrofuran	7.18	42	560	0.607	ug/l #	58
31) Cyclohexane	7.62	56	3568	1.018	ug/l #	3
36) 1,1-Dichloropropene	7.63	75	13320	4.562	ug/l #	51
37) Ethyl Acetate	6.81	43	2481	0.788	ug/l #	69
38) Carbon Tetrachloride	7.63	117	16177	5.764	ug/l #	16
43) Isopropyl Acetate	8.13	43	43082	8.491	ug/l #	89
45) 1,2-Dichloropropane	9.24	63	967	0.390	ug/l #	44
48) Methyl methacrylate	9.15	41	2927	1.213	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	5022	1.654	ug/l	92
54) cis-1,3-Dichloropropene	9.88	75	15866	4.274	ug/l #	68
56) Ethyl methacrylate	10.52	69	795	1.984	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	2919	0.800	ug/l #	42
59) 2-Hexanone	10.74	43	48393	23.326	ug/l #	54
74) N-amyl acetate	12.01	43	1784	0.493	ug/l #	45
76) 1,2,3-Trichloropropane	12.38	75	71046	27.245	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2225	0.331	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	71046	75.845	ug/l #	12
95) Naphthalene	15.11	128	401	3.843	ug/l #	69

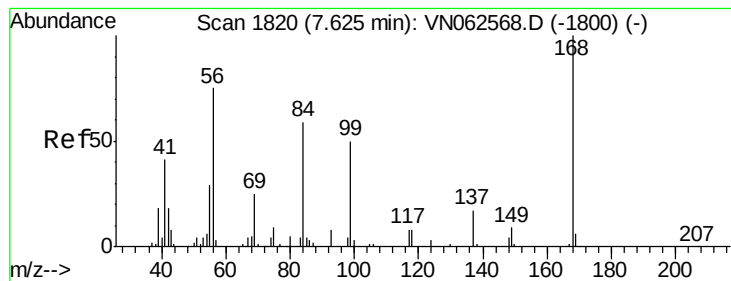
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 21 18:48:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

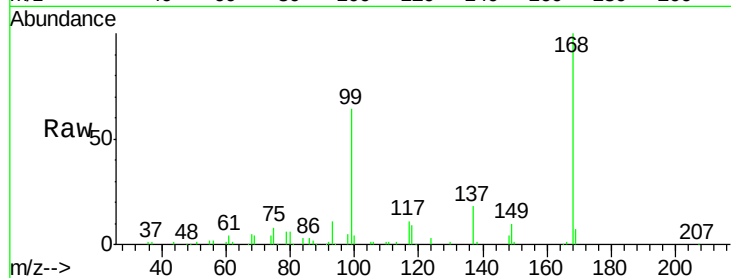
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 153156

Ion Ratio Lower Upper

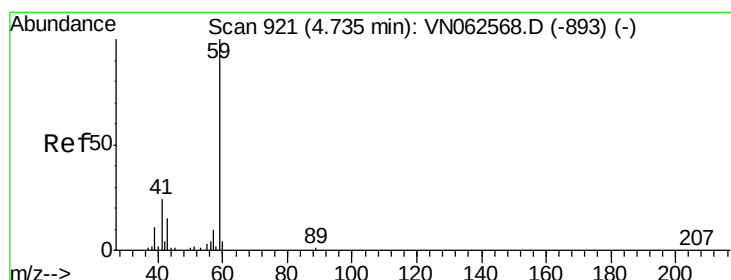
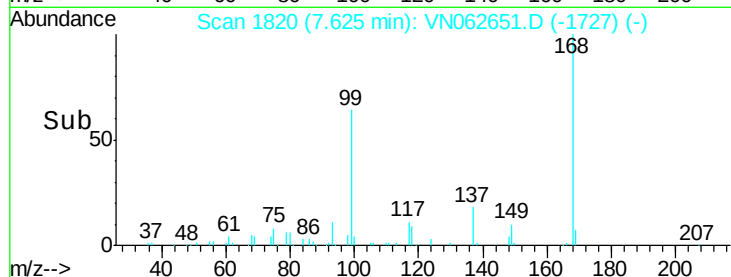
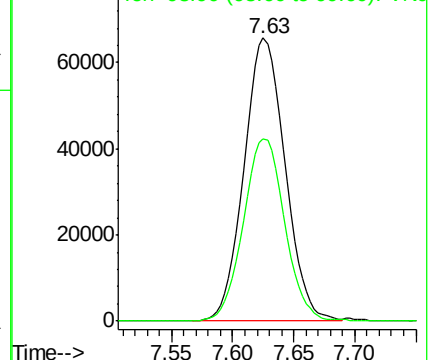
168 100

99 64.4 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.388 ug/l

RT: 4.72 min Scan# 916

Delta R.T. -0.02 min

Lab File: VN062651.D

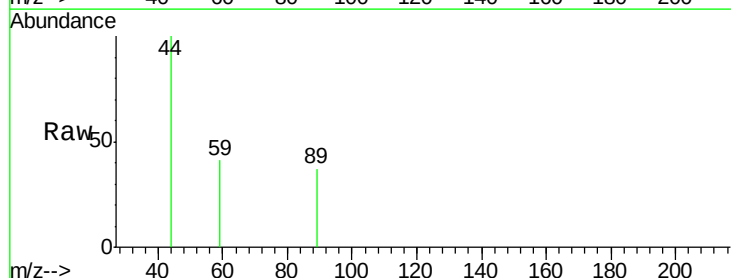
Acq: 29 Jul 2020 13:50

Tgt Ion: 59 Resp: 147

Ion Ratio Lower Upper

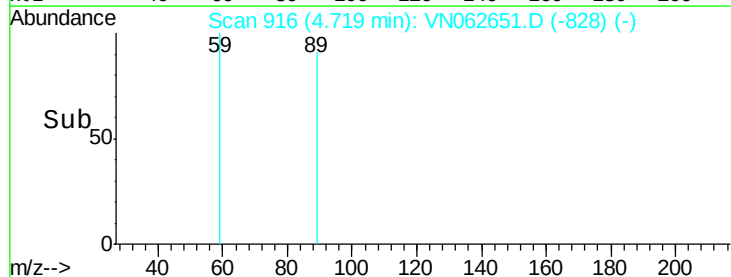
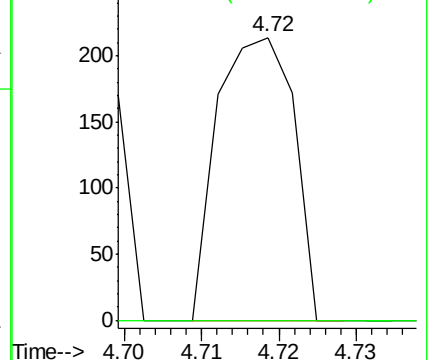
59 100

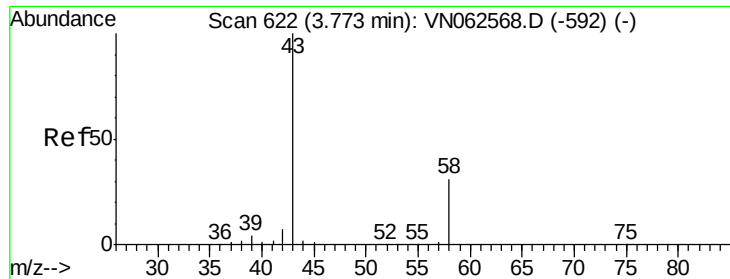
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 18.766 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

Instrument :

MSVOA_N

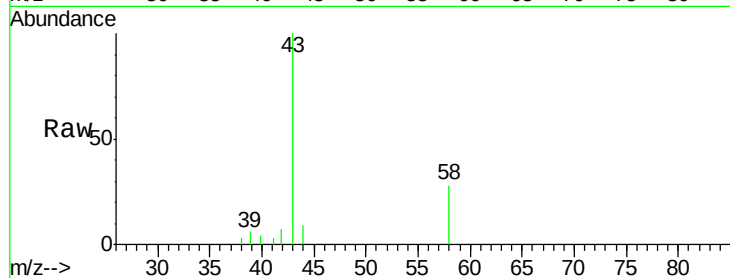
ClientSampled :

Tot Ion: 43 Resp: 16801

Ion Ratio Lower Upper

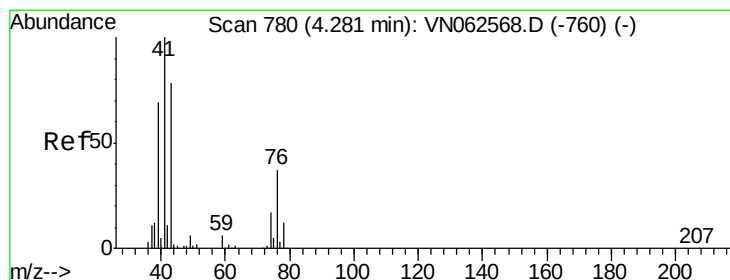
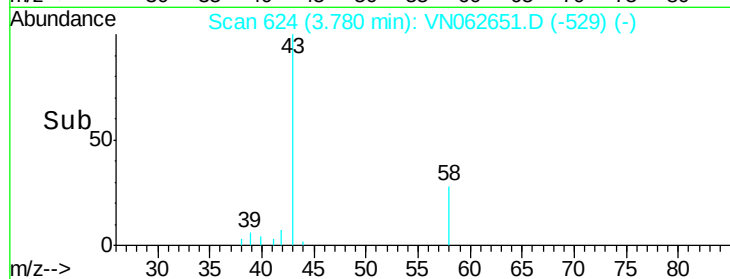
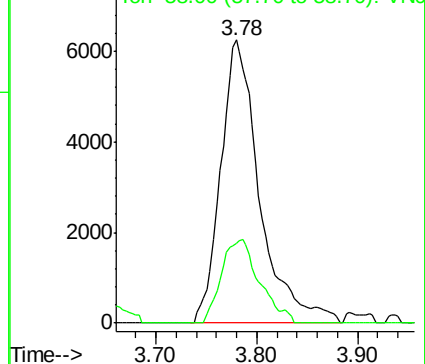
43 100

58 28.1 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.090 ug/l

RT: 4.29 min Scan# 783

Delta R.T. 0.01 min

Lab File: VN062651.D

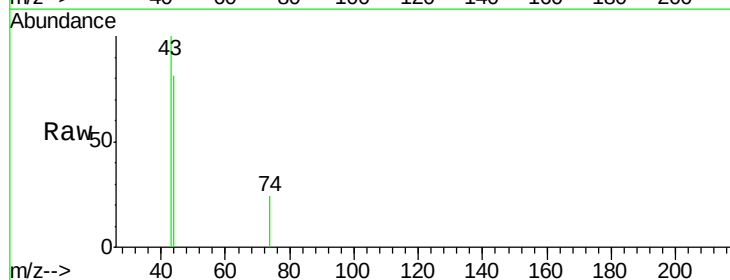
Acq: 29 Jul 2020 13:50

Tgt Ion: 43 Resp: 2471

Ion Ratio Lower Upper

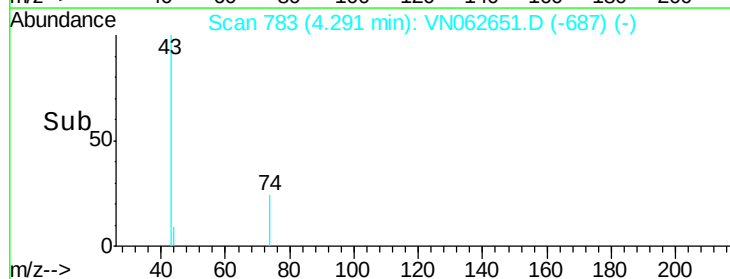
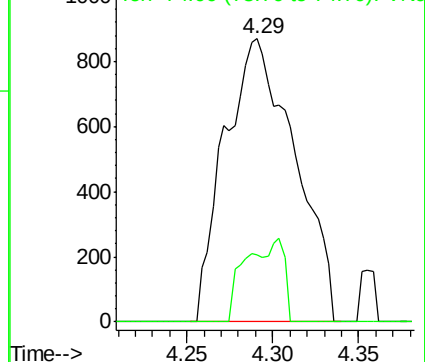
43 100

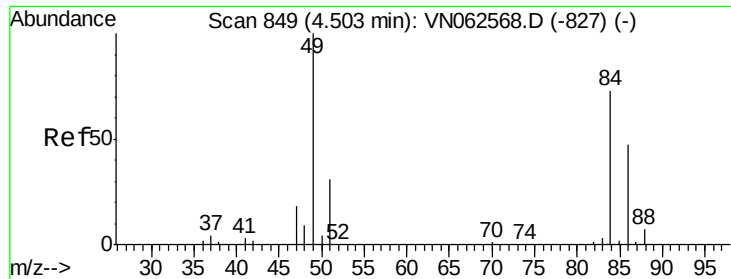
74 8.9 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

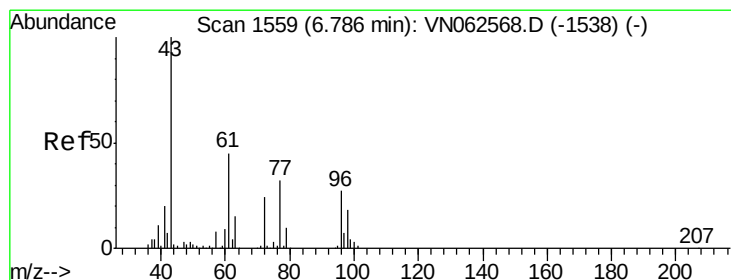
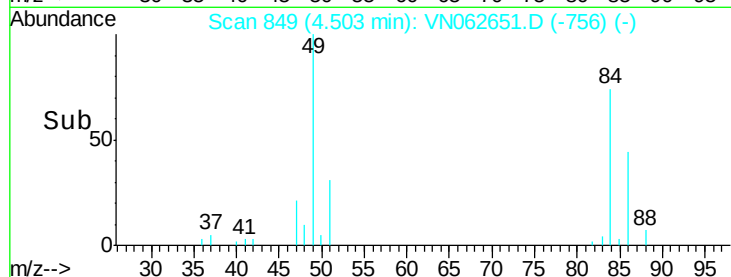
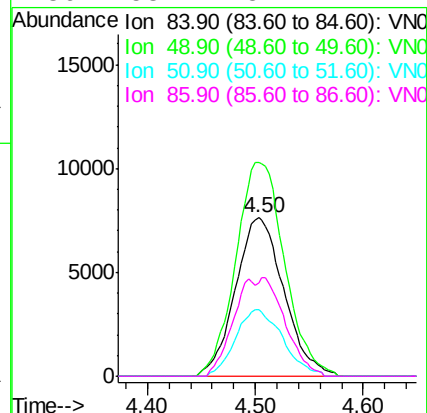
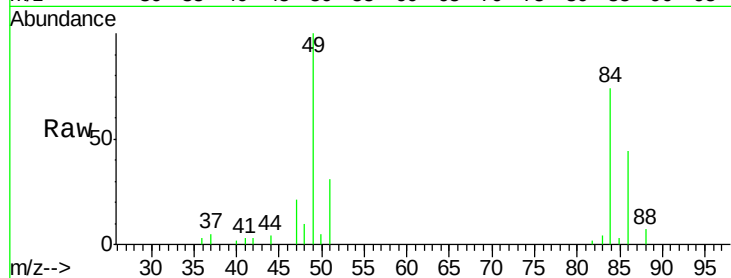




#20
Methylene Chloride
Concen: 11.098 ug/l
RT: 4.50 min Scan# 849
Delta R.T. -0.00 min
Lab File: VN062651.D
Acq: 29 Jul 2020 13:50

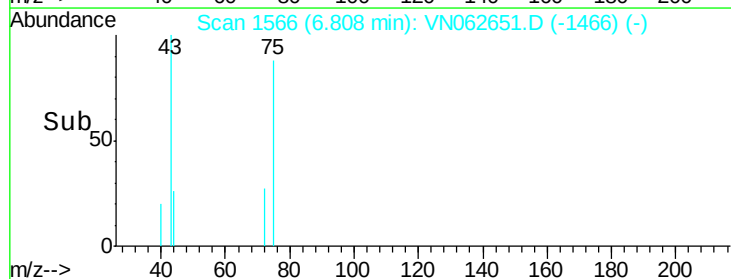
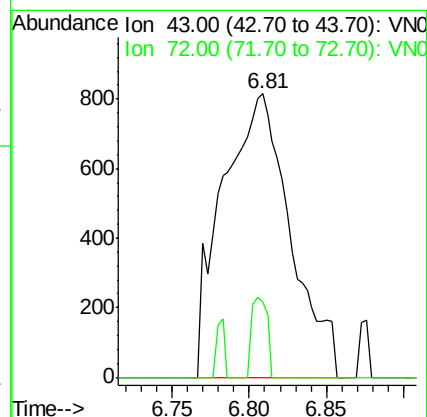
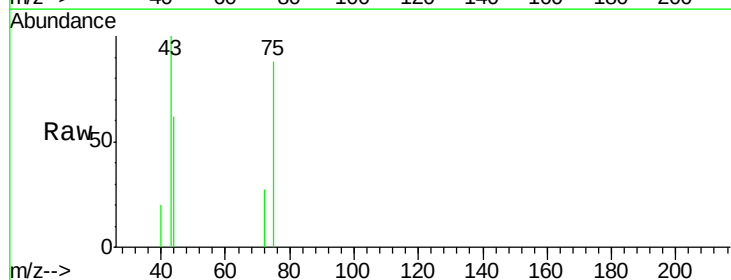
Instrument :
MSVOA_N
ClientSampleId :

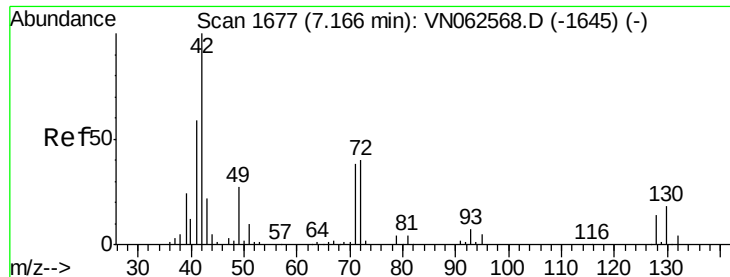
Tot Ion: 84 Resp: 23830
Ion Ratio Lower Upper
84 100
49 134.8 109.4 164.0
51 41.8 33.6 50.4
86 58.7 51.4 77.2



#25
2-Butanone
Concen: 1.820 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.02 min
Lab File: VN062651.D
Acq: 29 Jul 2020 13:50

Tgt Ion: 43 Resp: 2481
Ion Ratio Lower Upper
43 100
72 26.5 19.0 28.6





#29

Tetrahydrofuran

Concen: 0.607 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

Instrument :

MSVOA_N

ClientSampleId :

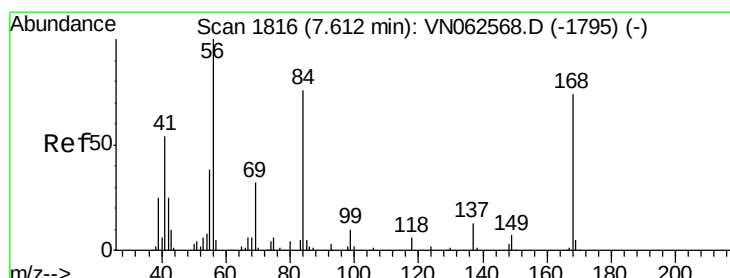
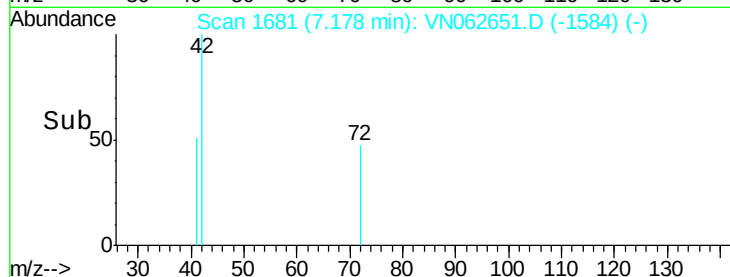
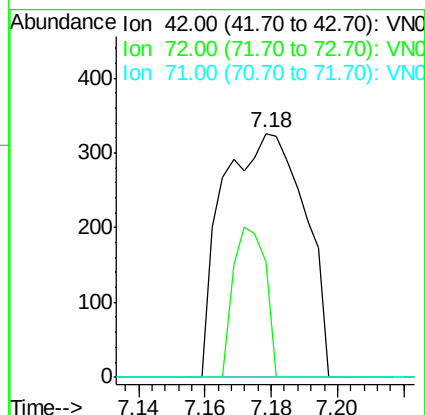
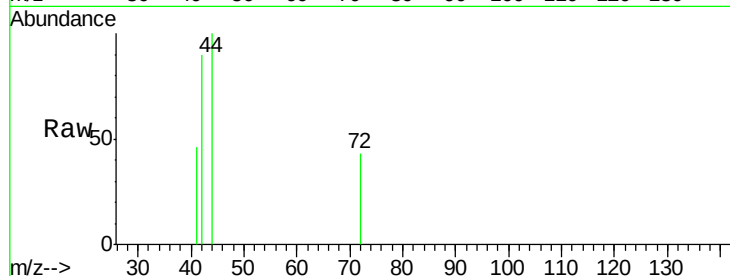
Tot Ion: 42 Resp: 560

Ion Ratio Lower Upper

42 100

72 23.9 30.7 46.1#

71 0.0 29.1 43.7#



#31

Cyclohexane

Concen: 1.018 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

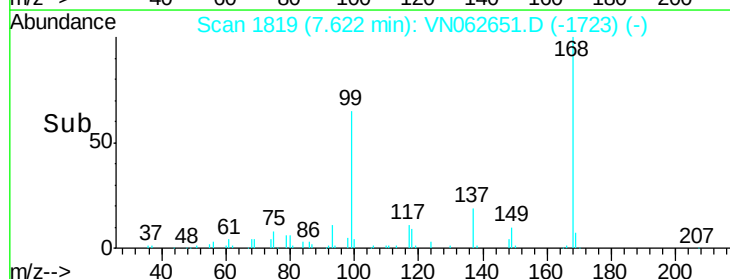
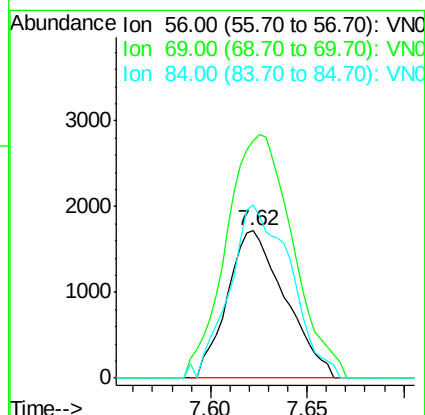
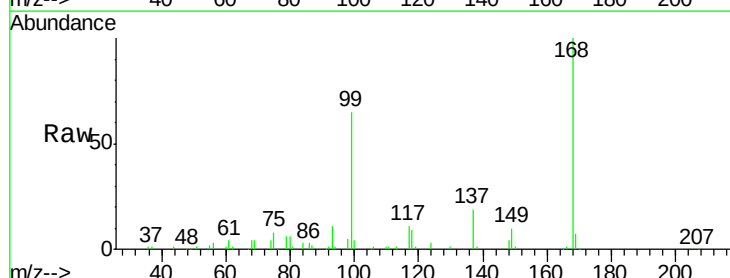
Tgt Ion: 56 Resp: 3568

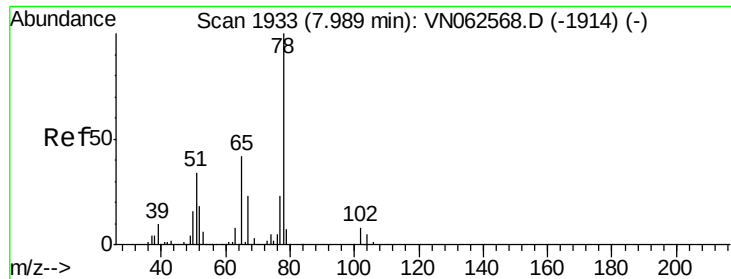
Ion Ratio Lower Upper

56 100

69 149.9 25.3 37.9#

84 117.8 61.0 91.4#

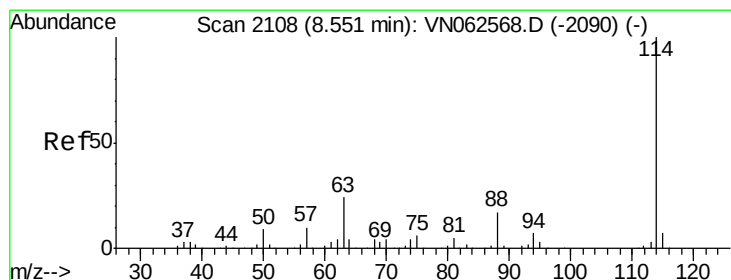
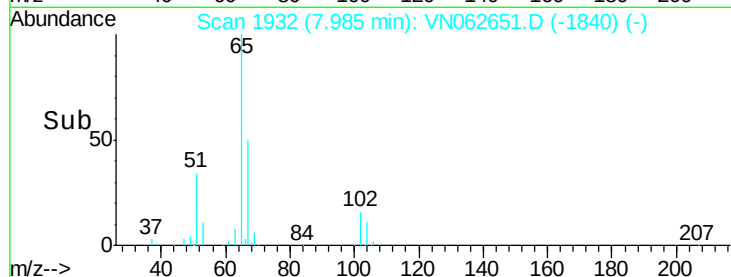
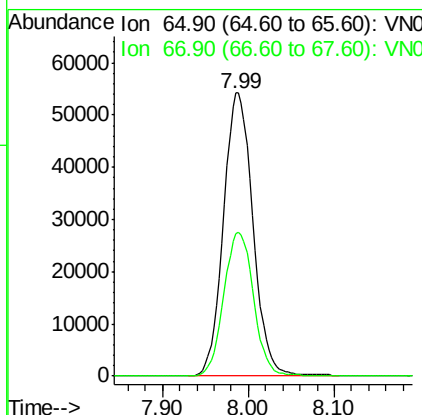
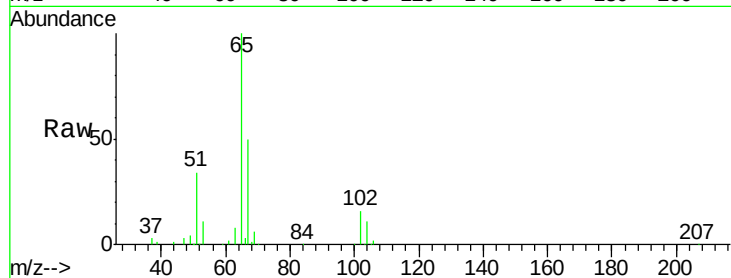




#33
 1,2-Dichloroethane-d4
 Concen: 54.365 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN062651.D
 Acq: 29 Jul 2020 13:50

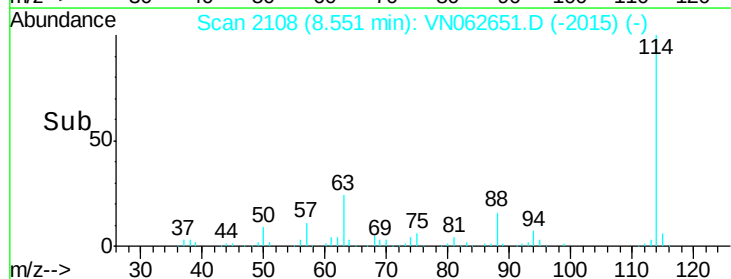
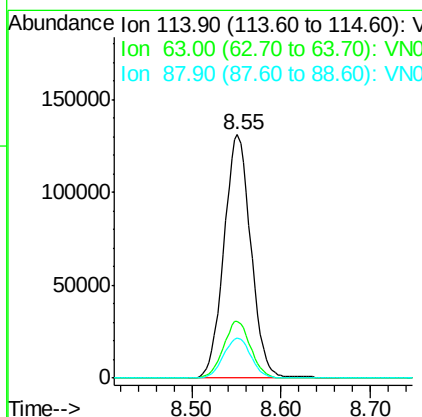
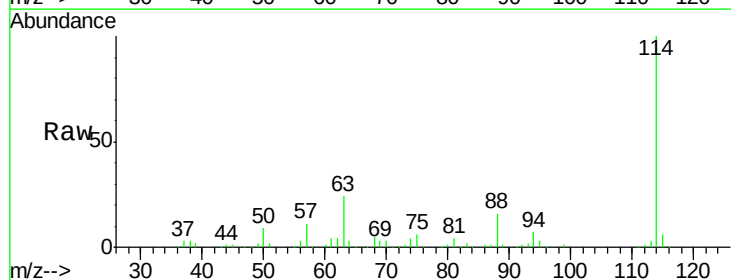
Instrument :
 MSVOA_N
 ClientSampleId :

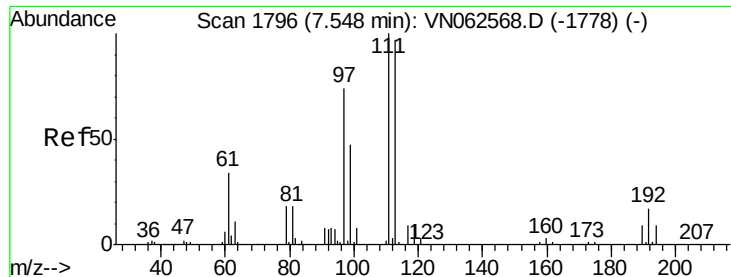
Tot Ion: 65 Resp: 129346
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062651.D
 Acq: 29 Jul 2020 13:50

Tgt Ion: 114 Resp: 273943
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 48.4
 88 16.3 0.0 33.8

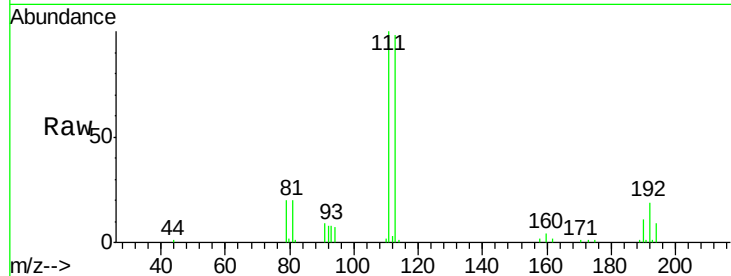




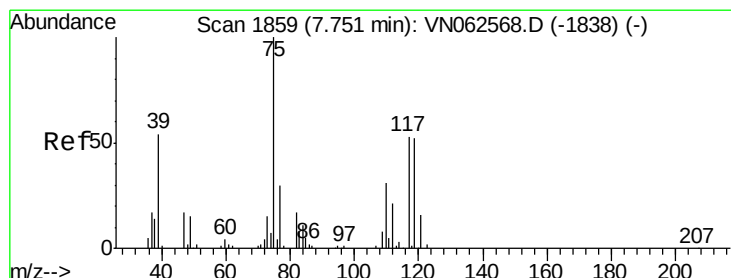
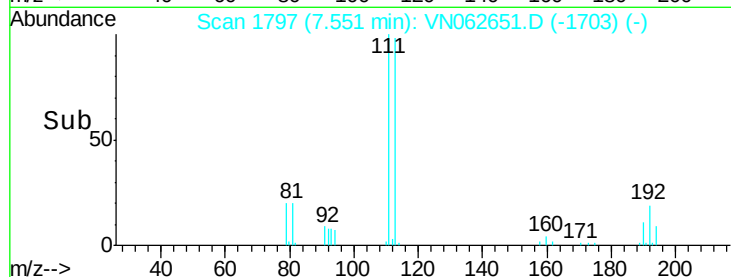
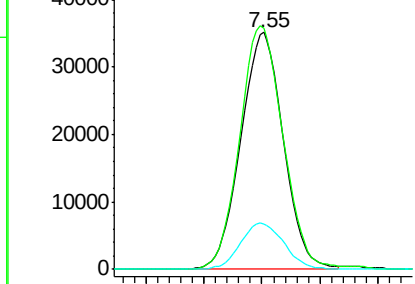
#35
 Dibromofluoromethane
 Concen: 49.710 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN062651.D
 Acq: 29 Jul 2020 13:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 89449
 Ion Ratio Lower Upper
 113 100
 111 104.5 82.7 124.1
 192 19.9 14.8 22.2

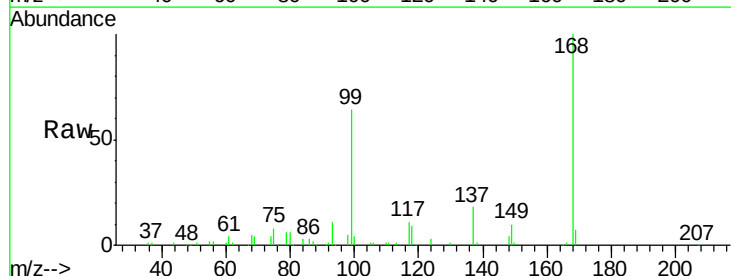


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

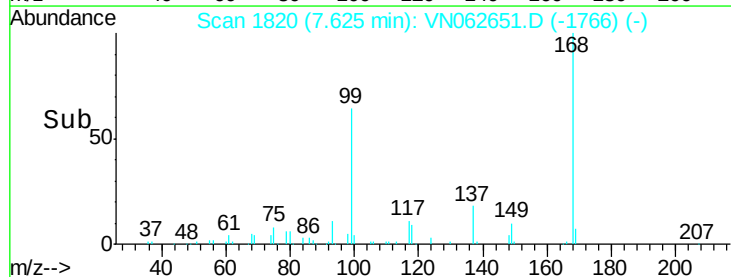
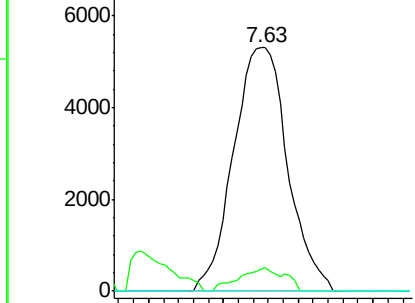


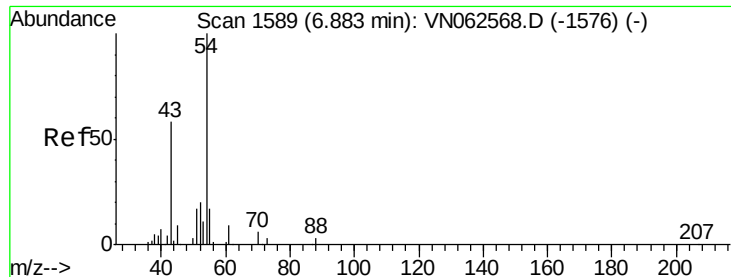
#36
 1,1-Dichloropropene
 Concen: 4.562 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN062651.D
 Acq: 29 Jul 2020 13:50

Tgt Ion: 75 Resp: 13320
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.0 48.0#
 77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 0.788 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.07 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

Instrument :

MSVOA_N

ClientSampled :

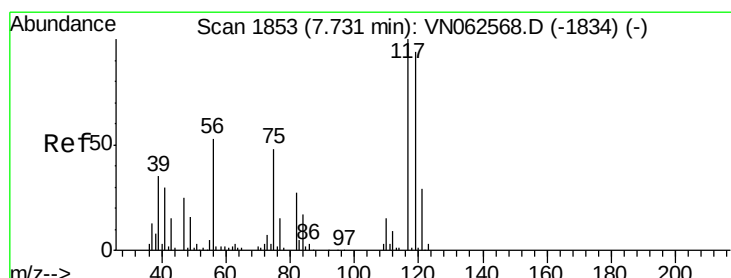
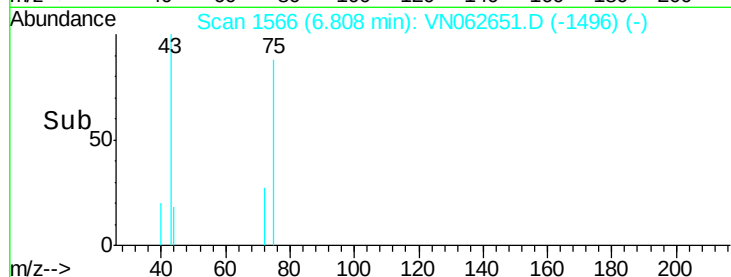
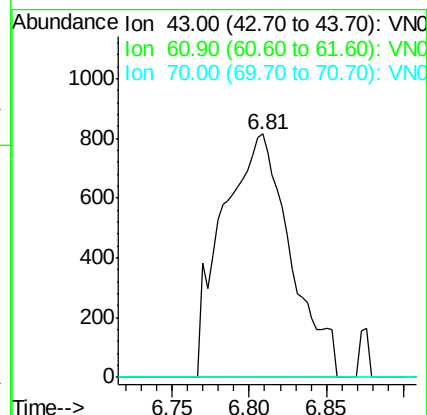
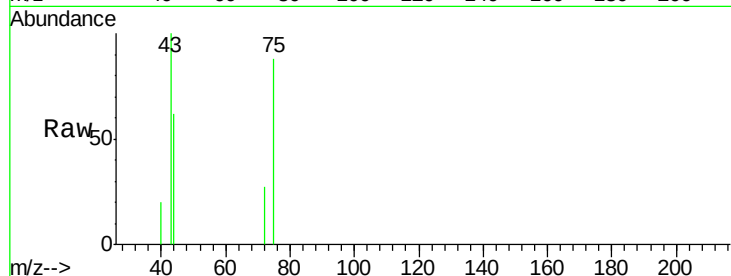
Tot Ion: 43 Resp: 2481

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

70 0.0 7.7 11.5#



#38

Carbon Tetrachloride

Concen: 5.764 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

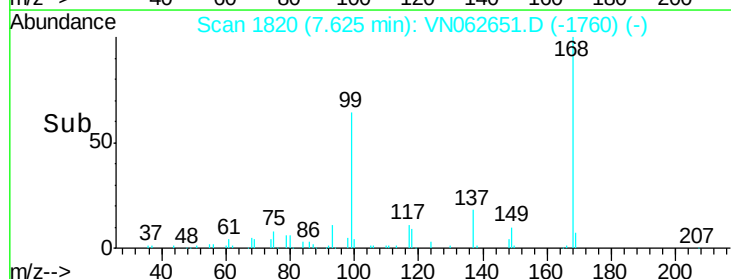
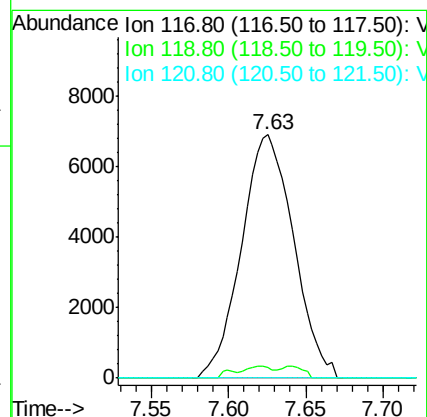
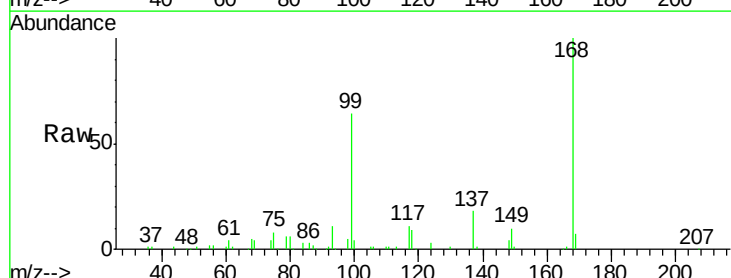
Tgt Ion: 117 Resp: 16177

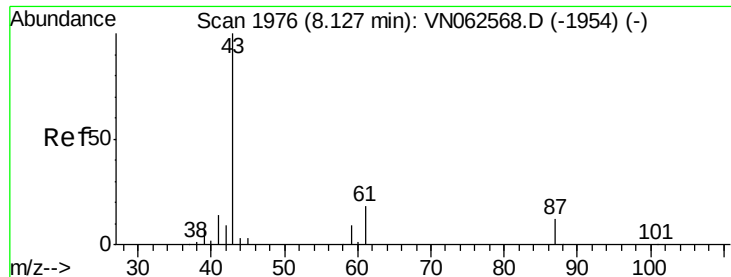
Ion Ratio Lower Upper

117 100

119 4.2 74.8 112.2#

121 0.0 23.0 34.6#





#43

Isopropyl Acetate

Concen: 8.491 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

Instrument :

MSVOA_N

ClientSampled :

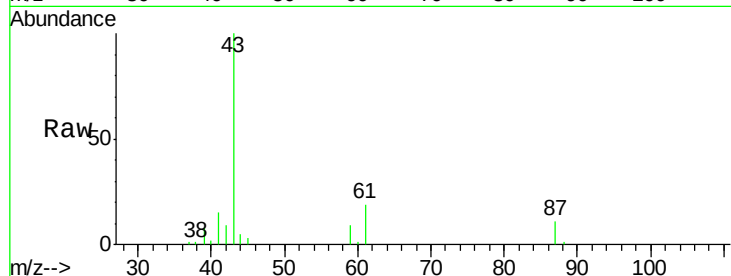
Tot Ion: 43 Resp: 43082

Ion Ratio Lower Upper

43 100

61 18.3 20.8 31.2#

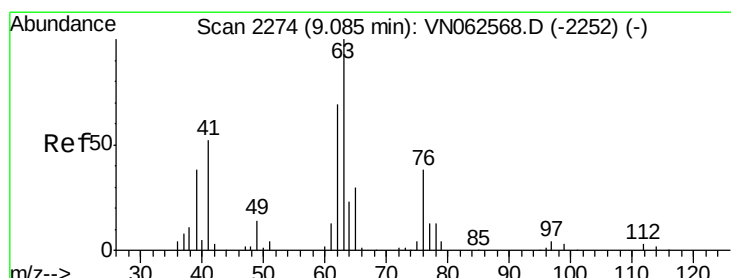
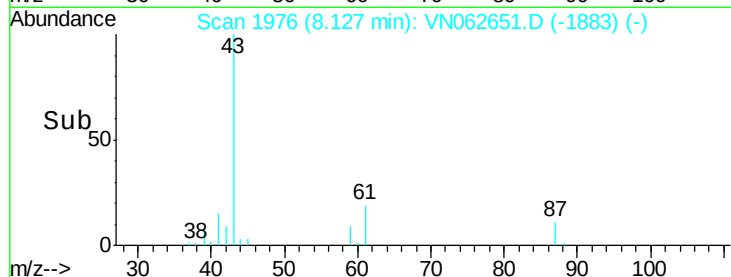
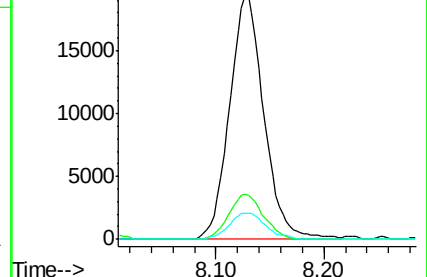
87 11.4 9.2 13.8



Abundance Ion 43.00 (42.70 to 43.70): VN062568.D (-1954) (-)

Ion 61.00 (60.70 to 61.70): VN062568.D (-1954) (-)

Ion 87.00 (86.70 to 87.70): VN062568.D (-1954) (-)



#45

1,2-Dichloropropane

Concen: 0.390 ug/l

RT: 9.24 min Scan# 2321

Delta R.T. 0.15 min

Lab File: VN062651.D

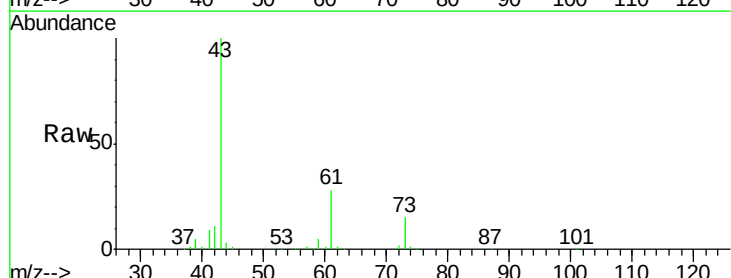
Acq: 29 Jul 2020 13:50

Tgt Ion: 63 Resp: 967

Ion Ratio Lower Upper

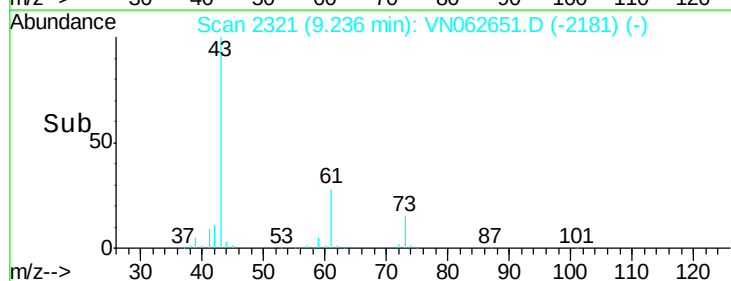
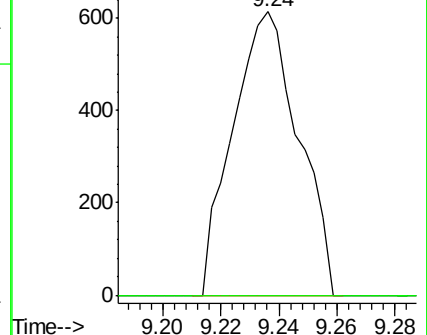
63 100

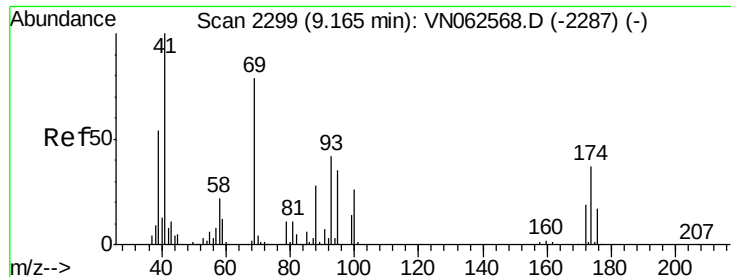
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN062568.D (-2252) (-)

Ion 64.90 (64.60 to 65.60): VN062568.D (-2252) (-)

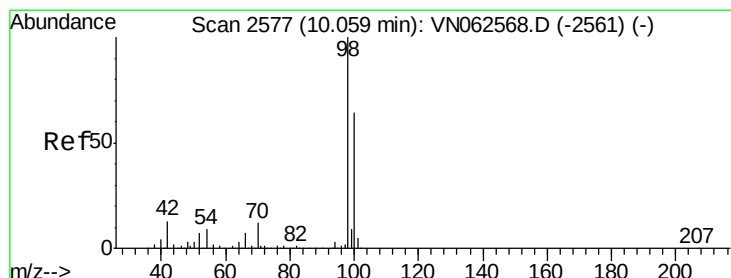
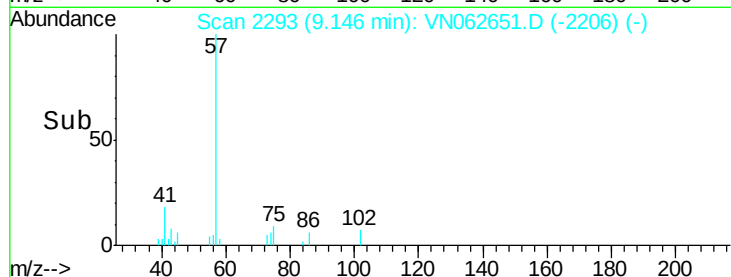
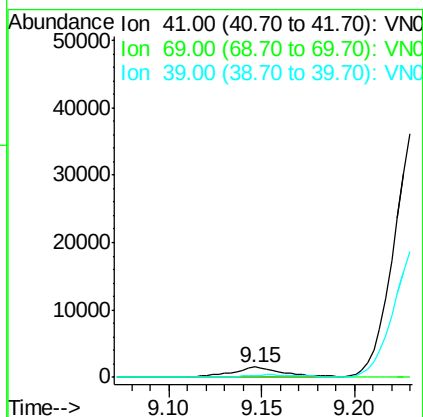
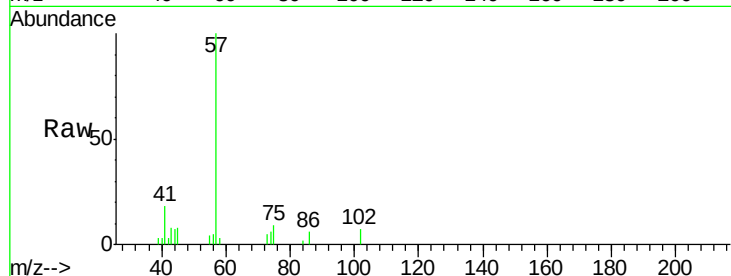




#48
Methvl methacrylate
Concen: 1.213 ug/l
RT: 9.15 min Scan# 2293
Delta R.T. -0.02 min
Lab File: VN062651.D
Acq: 29 Jul 2020 13:50

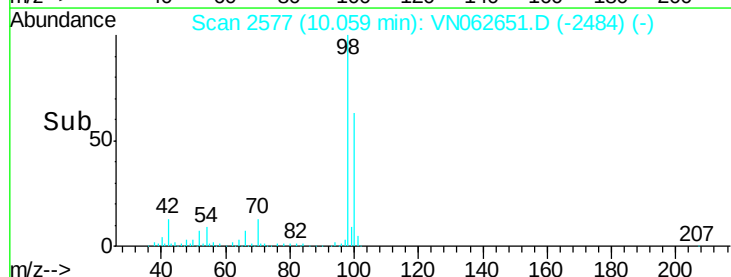
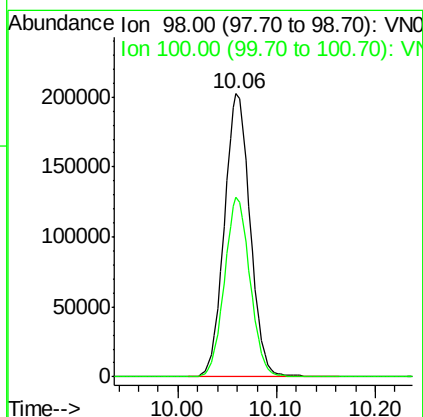
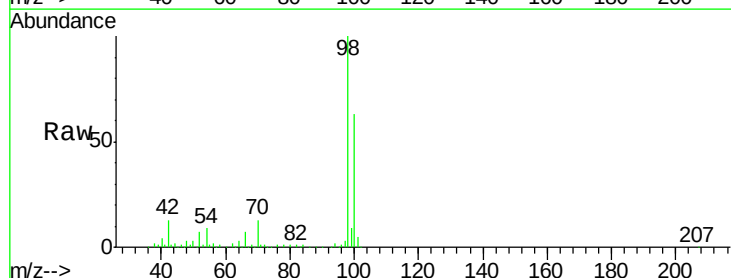
Instrument :
MSVOA_N
ClientSampleId :

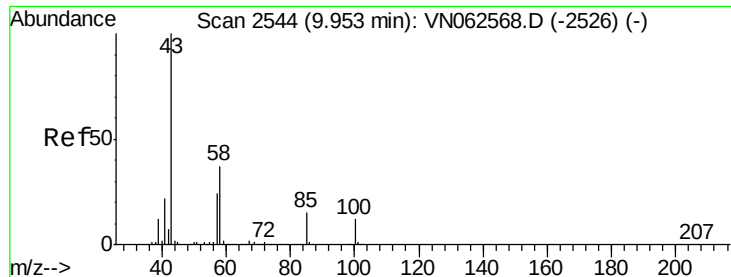
Tot Ion: 41 Resp: 2927
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 43.5 65.3#



#50
Toluene-d8
Concen: 51.708 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062651.D
Acq: 29 Jul 2020 13:50

Tgt Ion: 98 Resp: 371243
Ion Ratio Lower Upper
98 100
100 62.8 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 1.654 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

Instrument :

MSVOA_N

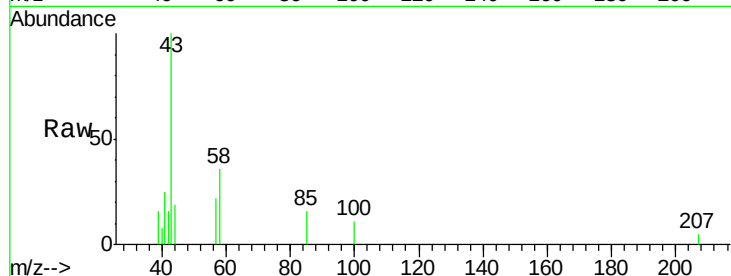
ClientSampled :

Tot Ion: 43 Resp: 5022

Ion Ratio Lower Upper

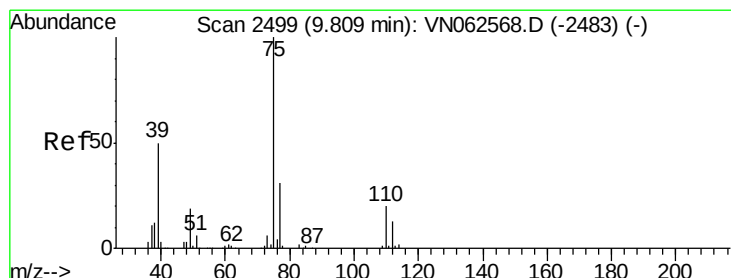
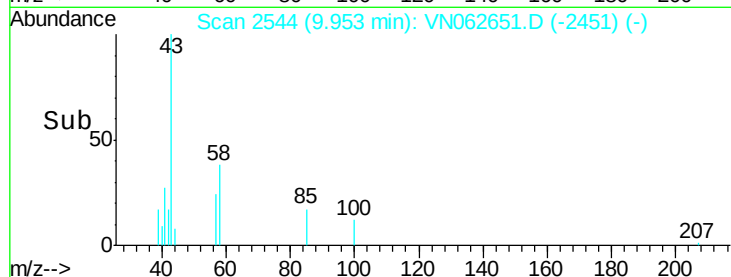
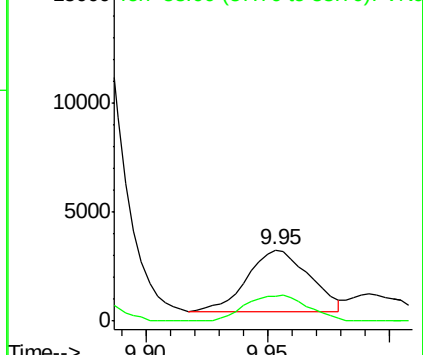
43 100

58 42.2 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN062651.D (-2451) (-)

Ion 58.00 (57.70 to 58.70): VN062651.D (-2451) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.274 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

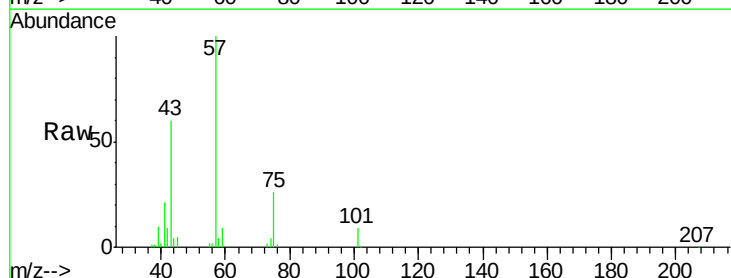
Tgt Ion: 75 Resp: 15866

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

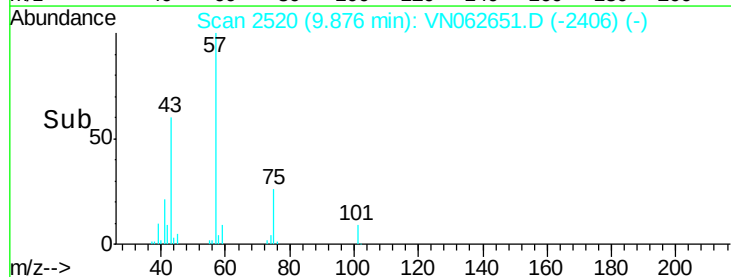
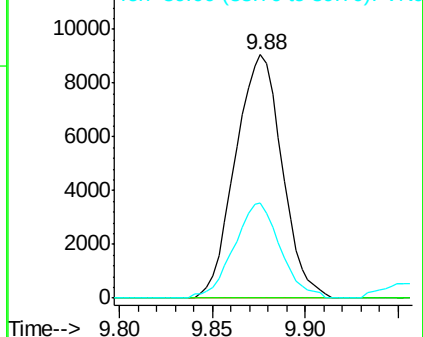
39 38.8 39.8 59.8#

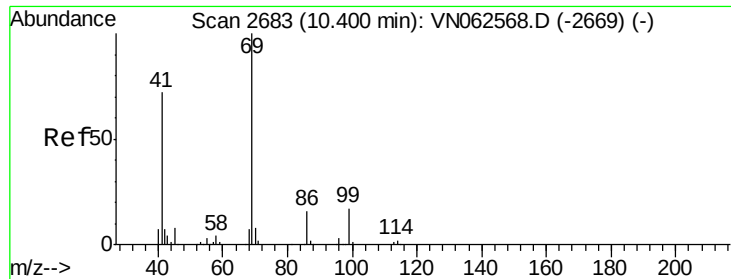


Abundance Ion 74.90 (74.60 to 75.60): VN062651.D (-2406) (-)

Ion 76.90 (76.60 to 77.60): VN062651.D (-2406) (-)

Ion 39.00 (38.70 to 39.70): VN062651.D (-2406) (-)





#56

Ethyl methacrylate

Concen: 1.984 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

Instrument :

MSVOA_N

ClientSampleId :

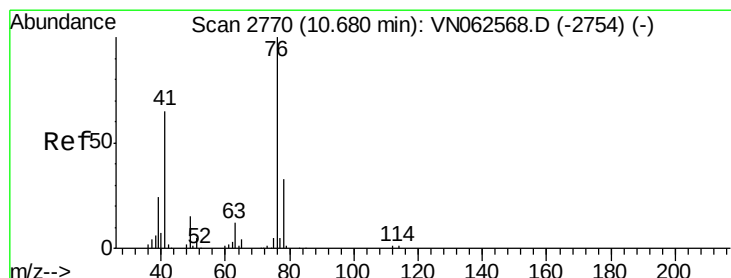
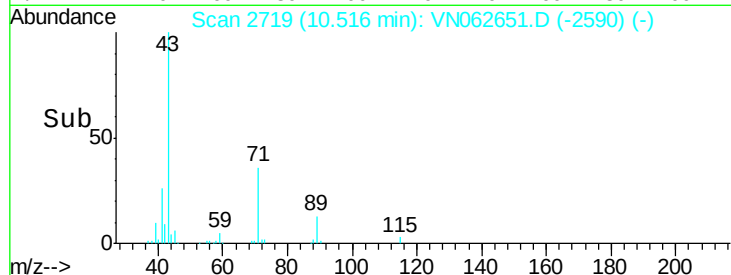
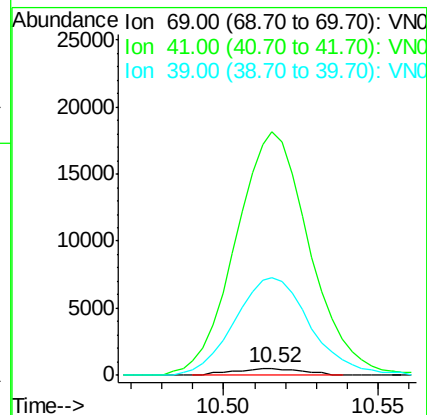
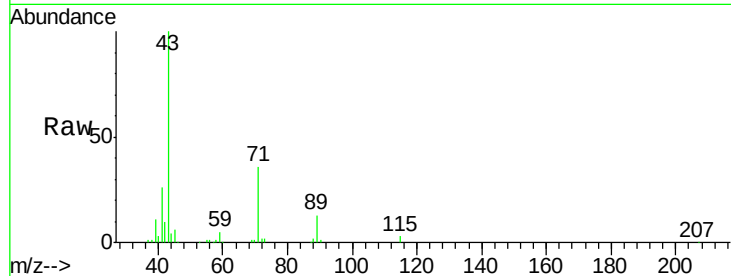
Tot Ion: 69 Resp: 795

Ion Ratio Lower Upper

69 100

41 3800.1 57.2 85.8#

39 1566.0 28.6 43.0#



#57

1,3-Dichloropropane

Concen: 0.800 ug/l

RT: 10.73 min Scan# 2787

Delta R.T. 0.05 min

Lab File: VN062651.D

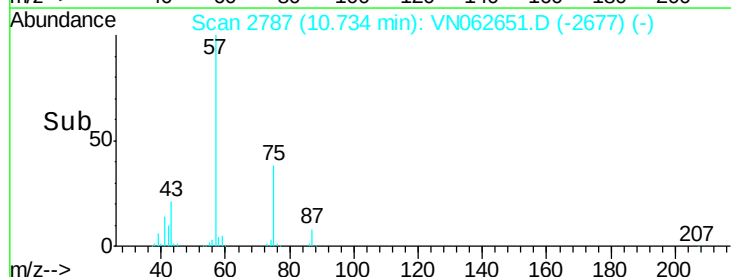
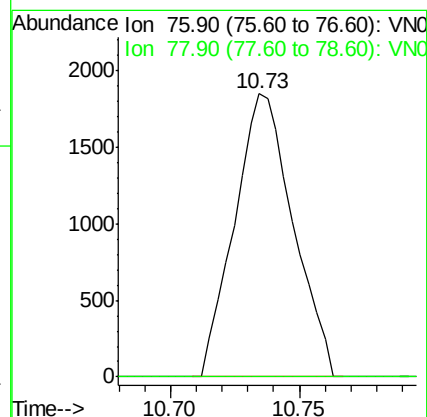
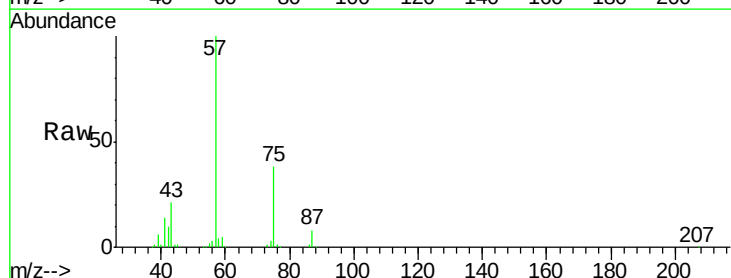
Acq: 29 Jul 2020 13:50

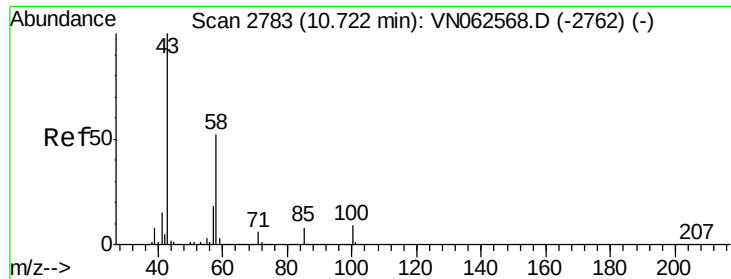
Tgt Ion: 76 Resp: 2919

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#

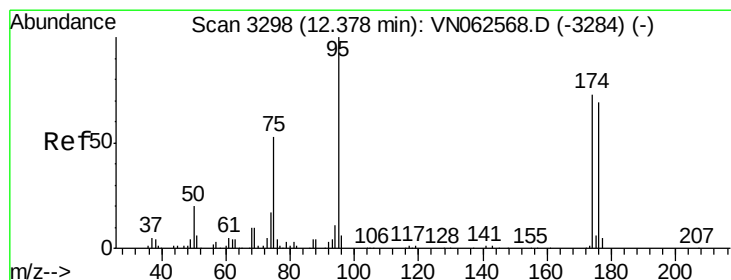
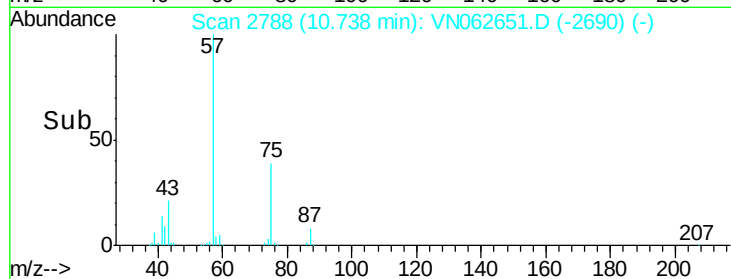
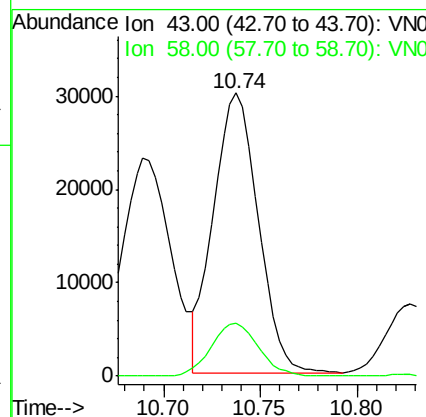
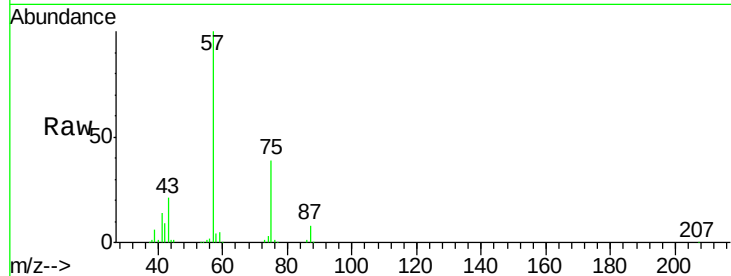




#59
2-Hexanone
Concen: 23.326 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062651.D
Acq: 29 Jul 2020 13:50

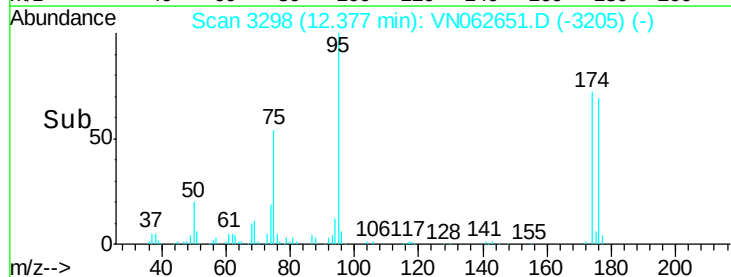
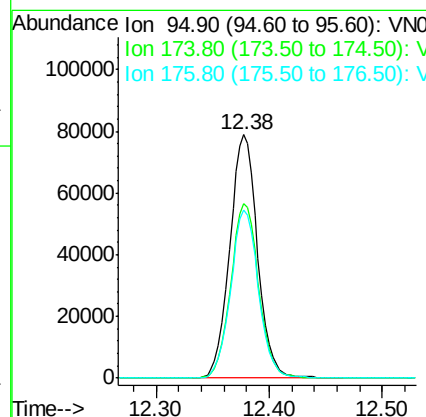
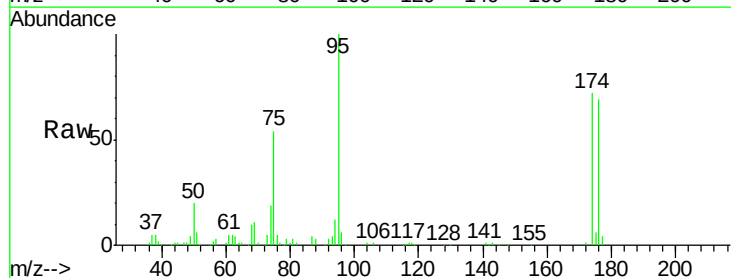
Instrument :
MSVOA_N
ClientSampleId :

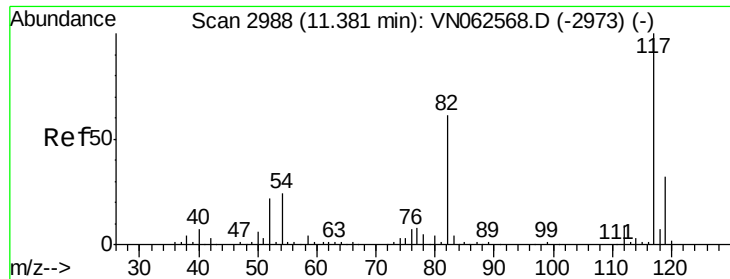
Tot Ion: 43 Resp: 48393
Ion Ratio Lower Upper
43 100
58 19.9 26.0 78.0#



#62
4-Bromofluorobenzene
Concen: 51.087 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062651.D
Acq: 29 Jul 2020 13:50

Tgt Ion: 95 Resp: 134110
Ion Ratio Lower Upper
95 100
174 72.5 0.0 144.6
176 69.4 0.0 139.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

Instrument :

MSVOA_N

ClientSampled :

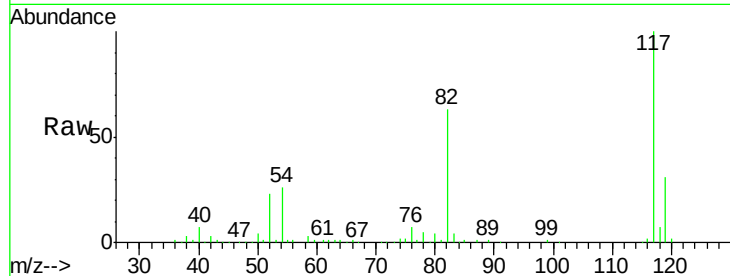
Tot Ion:117 Resp: 279764

Ion Ratio Lower Upper

117 100

82 62.7 49.0 73.6

119 31.2 25.4 38.2



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

11.38

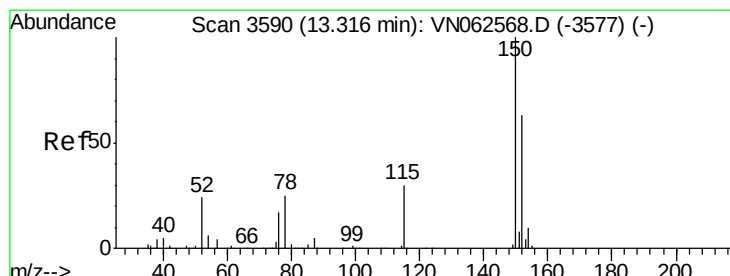
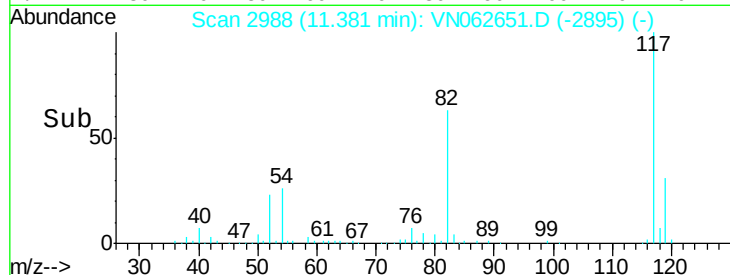
150000

100000

50000

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

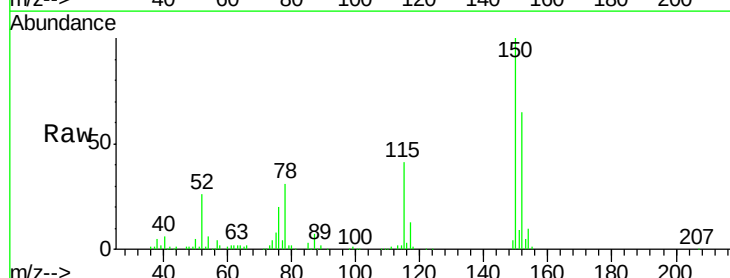
Tgt Ion:152 Resp: 102447

Ion Ratio Lower Upper

152 100

115 63.3 31.8 95.4

150 156.9 0.0 351.4



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

13.32

120000

100000

80000

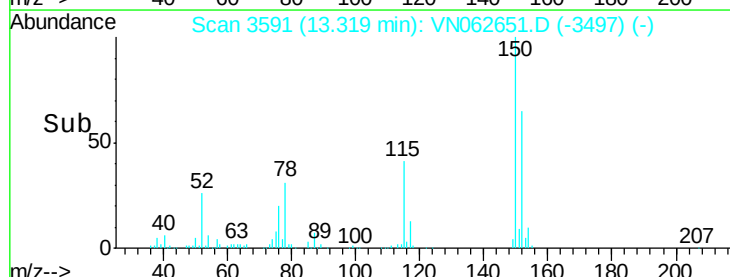
60000

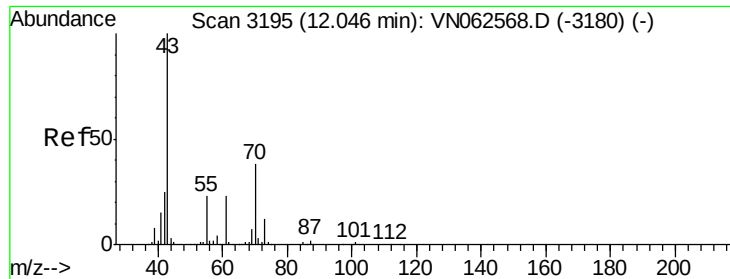
40000

20000

0

Time-->

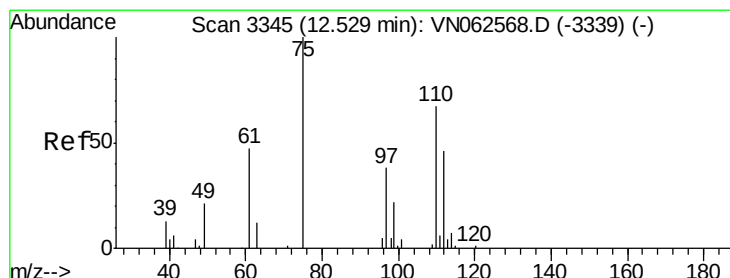
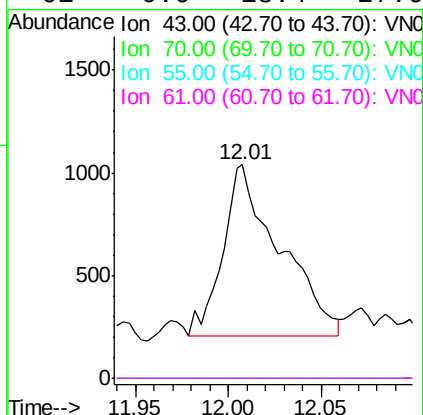
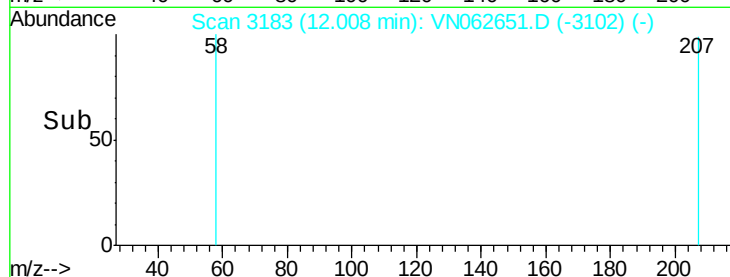
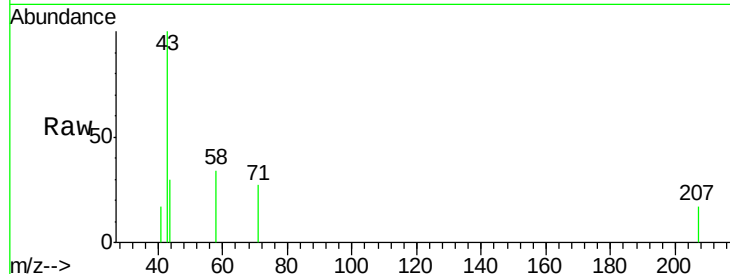




#74
N-amvl acetate
Concen: 0.493 ug/l
RT: 12.01 min Scan# 3183
Delta R.T. -0.04 min
Lab File: VN062651.D
Acq: 29 Jul 2020 13:50

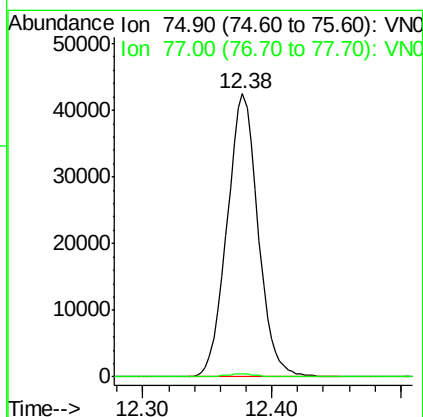
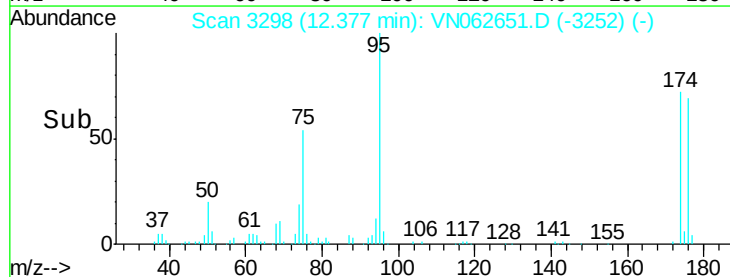
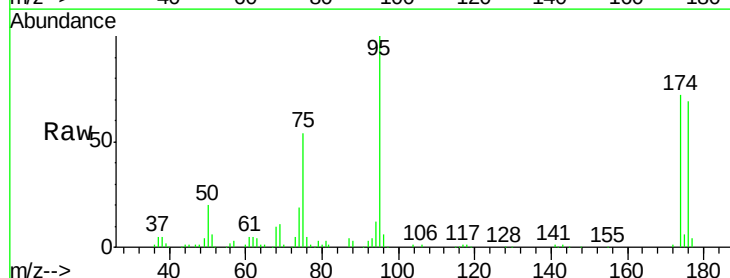
Instrument :
MSVOA_N
ClientSampleId :

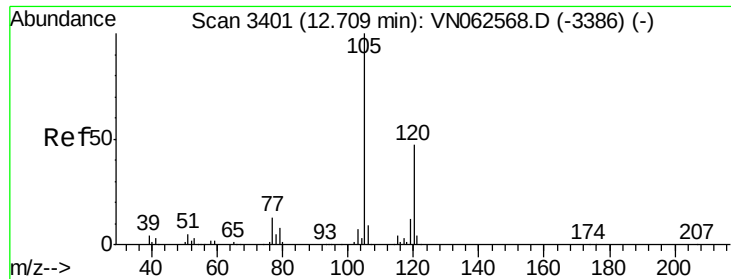
Tot Ion: 43 Resp: 1784
Ion Ratio Lower Upper
43 100
70 0.0 30.5 45.7#
55 0.0 19.0 28.6#
61 0.0 18.4 27.6#



#76
1,2,3-Trichloropropane
Concen: 27.245 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.15 min
Lab File: VN062651.D
Acq: 29 Jul 2020 13:50

Tgt Ion: 75 Resp: 71046
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#

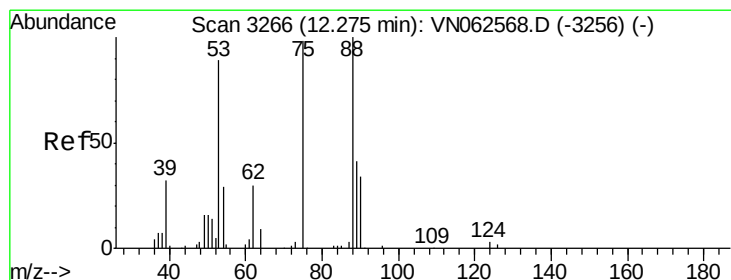
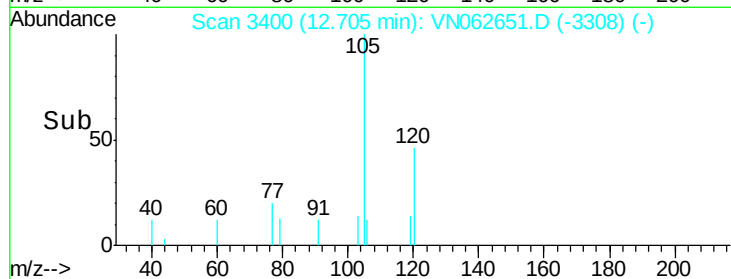
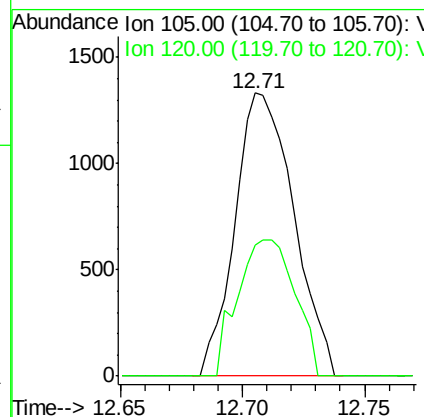
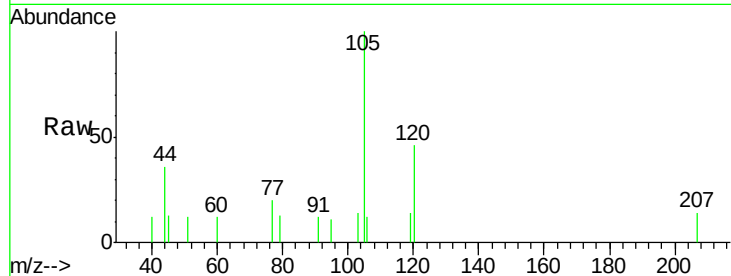




#80
 1,3,5-Trimethylbenzene
 Concen: 0.331 ug/l
 RT: 12.71 min Scan# 3400
 Delta R.T. -0.00 min
 Lab File: VN062651.D
 Acq: 29 Jul 2020 13:50

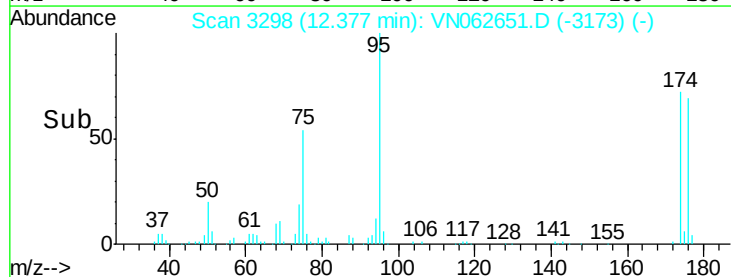
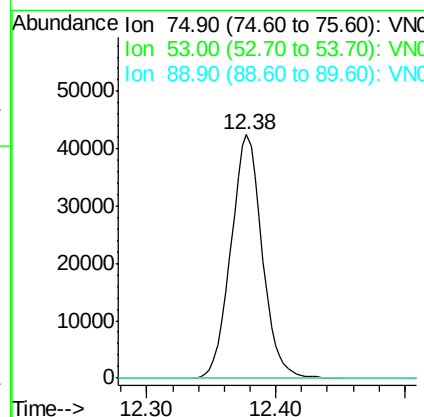
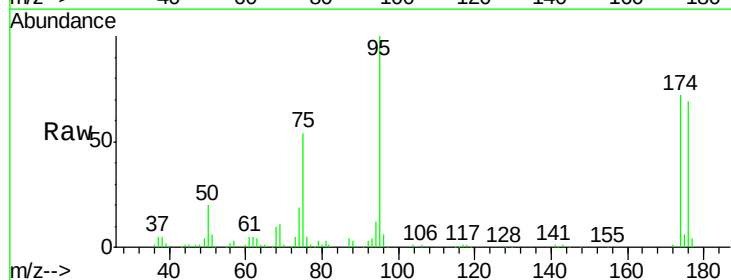
Instrument :
 MSVOA_N
 ClientSampled :

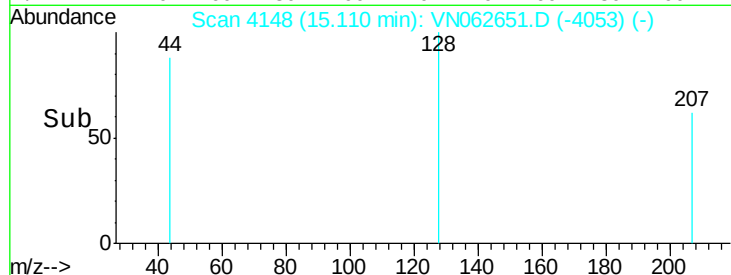
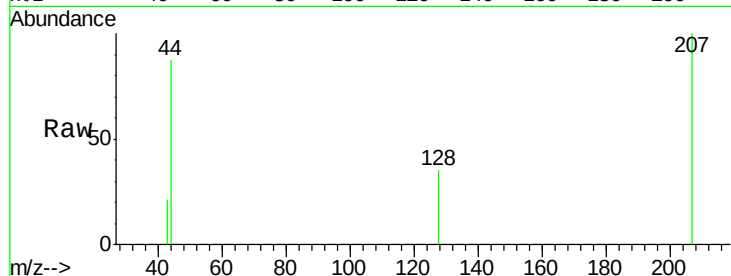
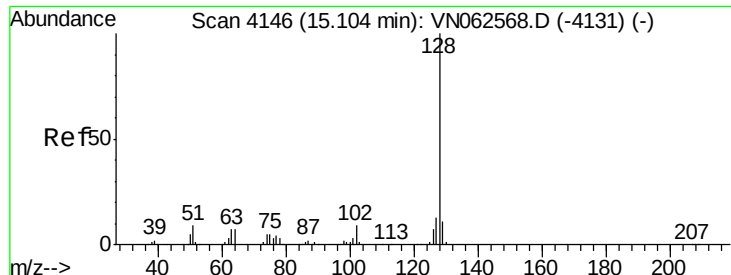
Tot Ion:105 Resp: 2225
 Ion Ratio Lower Upper
 105 100
 120 47.1 23.2 69.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.845 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062651.D
 Acq: 29 Jul 2020 13:50

Tgt Ion: 75 Resp: 71046
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 34.5 51.7#





#95

Naphthalene

Concen: 3.843 ug/l

RT: 15.11 min Scan# 4148

Delta R.T. 0.01 min

Lab File: VN062651.D

Acq: 29 Jul 2020 13:50

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:128 Resp: 401

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.7 13.1#

