

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070220\
 Data File : VN062348.D
 Acq On : 2 Jul 2020 21:19
 Operator : JC/MD
 Sample : PB129917ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 03 00:37:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 24 15:33:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	125543	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	268181	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	265151	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	92829	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	106430	60.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.82%	
35) Dibromofluoromethane	7.55	113	83895	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	
50) Toluene-d8	10.06	98	352213	51.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.42%	
62) 4-Bromofluorobenzene	12.38	95	112484	48.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.82%	

Target Compounds

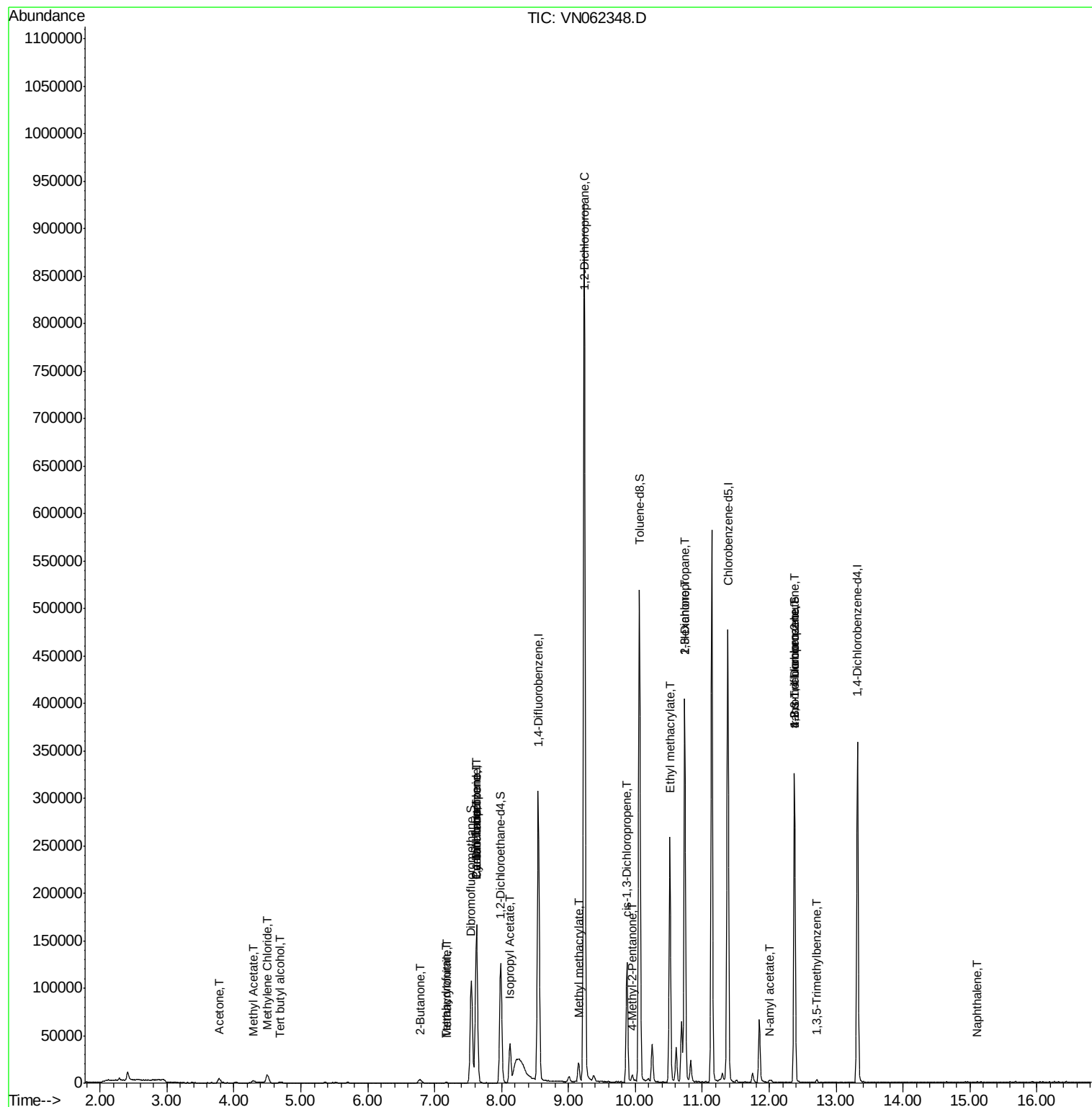
						Qvalue
11) Tert butyl alcohol	4.69	59	863	3.412	ug/l #	72
16) Acetone	3.77	43	9012	12.447	ug/l	89
18) Methyl Acetate	4.28	43	4339	3.098	ug/l #	84
20) Methylene Chloride	4.50	84	6394	3.753	ug/l	95
25) 2-Butanone	6.80	43	1815	2.108	ug/l #	44
29) Tetrahydrofuran	7.17	42	202	0.358	ug/l #	38
31) Cyclohexane	7.63	56	3306	1.358	ug/l #	30
36) 1,1-Dichloropropene	7.62	75	11569	4.292	ug/l #	46
38) Carbon Tetrachloride	7.62	117	13468	5.299	ug/l #	17
41) Methacrylonitrile	7.17	41	280	0.271	ug/l #	18
43) Isopropyl Acetate	8.13	43	46415	12.756	ug/l	98
45) 1,2-Dichloropropane	9.23	63	1087	0.536	ug/l #	43
48) Methyl methacrylate	9.14	41	2808	1.721	ug/l #	6
51) 4-Methyl-2-Pentanone	9.95	43	5550	2.611	ug/l	89
54) cis-1,3-Dichloropropene	9.87	75	22133	6.810	ug/l #	70
56) Ethyl methacrylate	10.52	69	966	0.367	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4082	1.203	ug/l #	42
59) 2-Hexanone	10.74	43	55665	36.260	ug/l #	47
74) N-amyl acetate	12.01	43	1164	3.754	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	60242	27.567	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2041	0.350	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.38	75	60242	80.507	ug/l #	13
95) Naphthalene	15.10	128	160	4.028	ug/l #	69

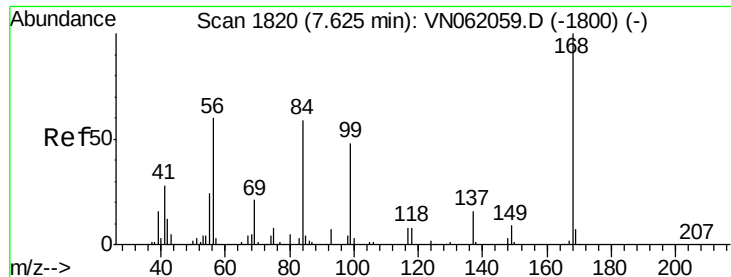
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN062348.D
Acq On : 2 Jul 2020 21:19
Operator : JC/MD
Sample : PB129917ZHE#06
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jul 03 00:37:12 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N062420W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 24 15:33:00 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: VN062348.D

Acq: 2 Jul 2020 21:19

Instrument :

MSVOA_N

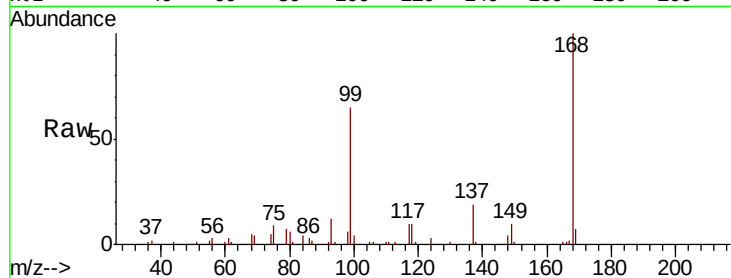
ClientSampled :

Tot Ion:168 Resp: 125543

Ion Ratio Lower Upper

168 100

99 64.7 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): VN062059.D (-1800) (-)

Ion 98.90 (98.60 to 99.60): VN062059.D (-1800) (-)

7.63

60000

50000

40000

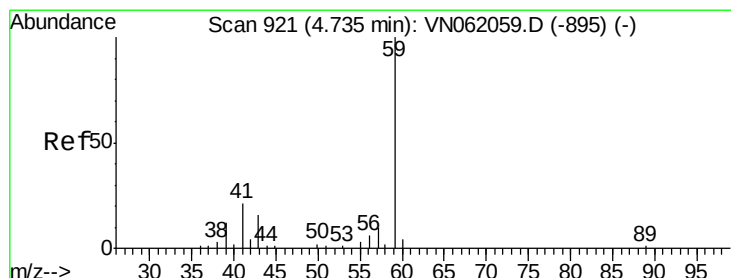
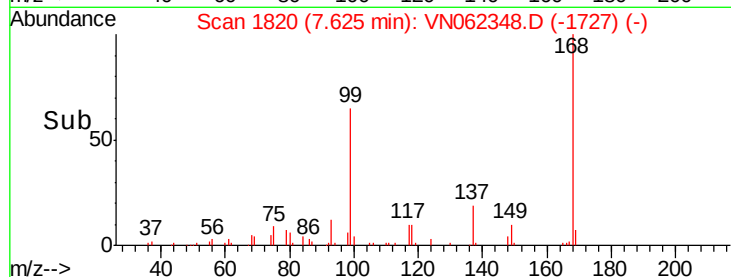
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 3.412 ug/l

RT: 4.69 min Scan# 907

Delta R.T. -0.05 min

Lab File: VN062348.D

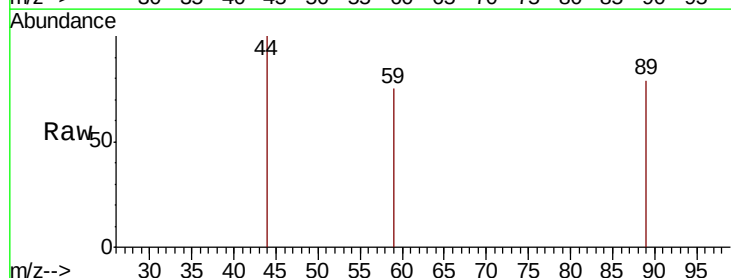
Acq: 2 Jul 2020 21:19

Tgt Ion: 59 Resp: 863

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN062059.D (-895) (-)

Ion 57.00 (56.70 to 57.70): VN062059.D (-895) (-)

4.69

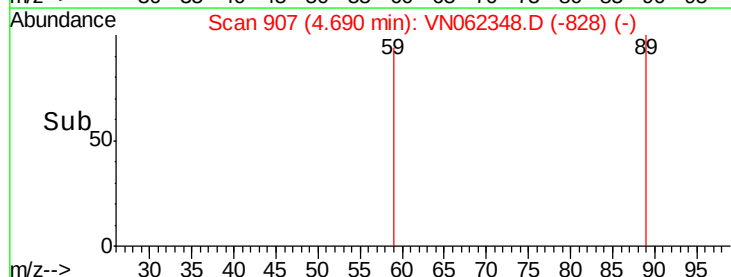
300

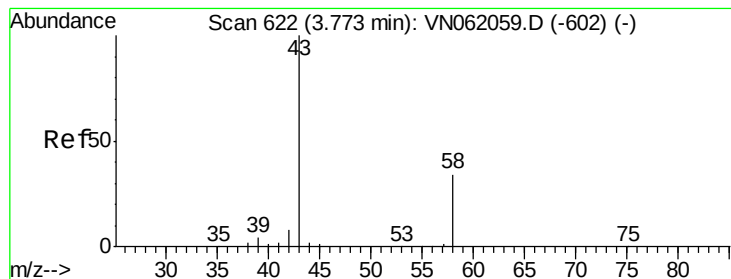
200

100

0

Time--> 4.65 4.70 4.75





#16

Acetone

Concen: 12.447 ug/l

RT: 3.77 min Scan# 622

Delta R.T. 0.00 min

Lab File: VN062348.D

Acq: 2 Jul 2020 21:19

Instrument :

MSVOA_N

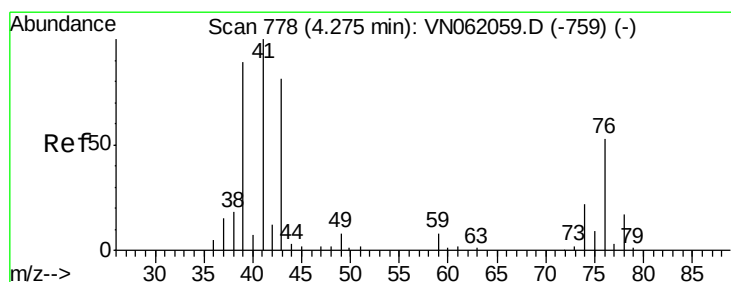
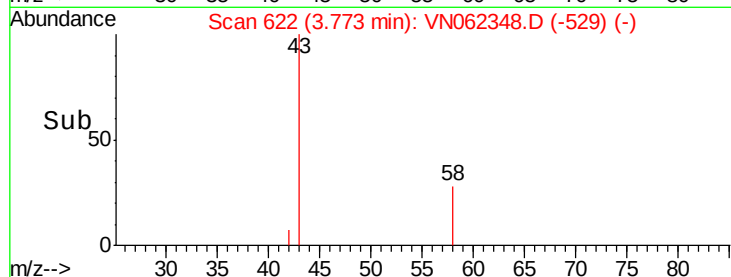
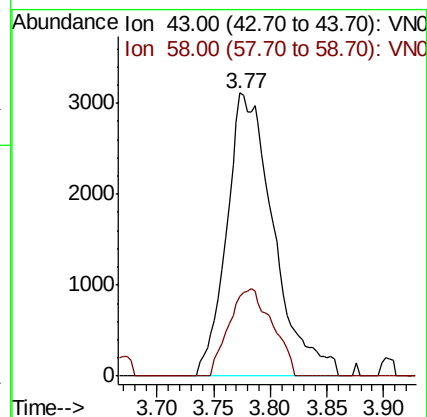
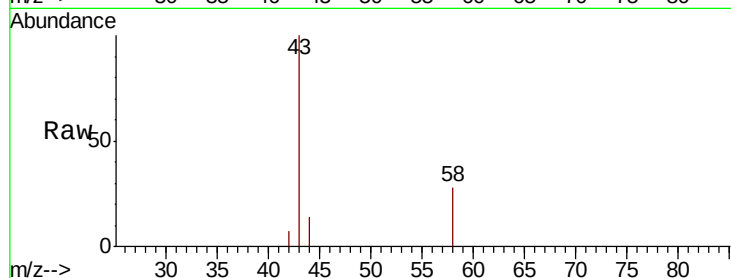
ClientSampleId :

Tot Ion: 43 Resp: 9012

Ion Ratio Lower Upper

43 100

58 28.3 27.5 41.3



#18

Methyl Acetate

Concen: 3.098 ug/l

RT: 4.28 min Scan# 781

Delta R.T. 0.01 min

Lab File: VN062348.D

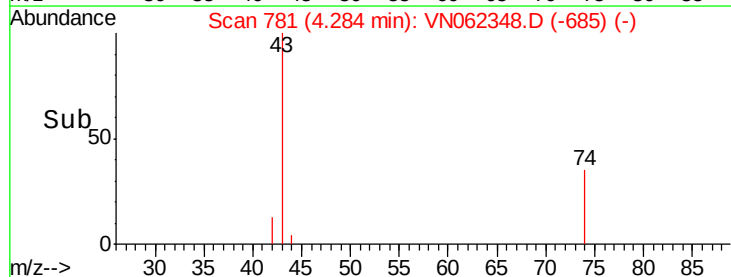
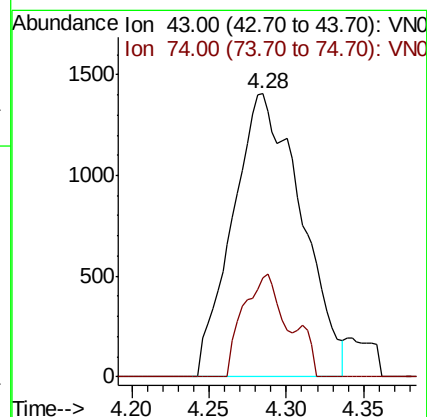
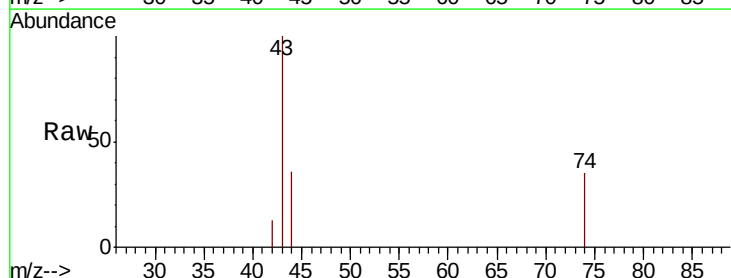
Acq: 2 Jul 2020 21:19

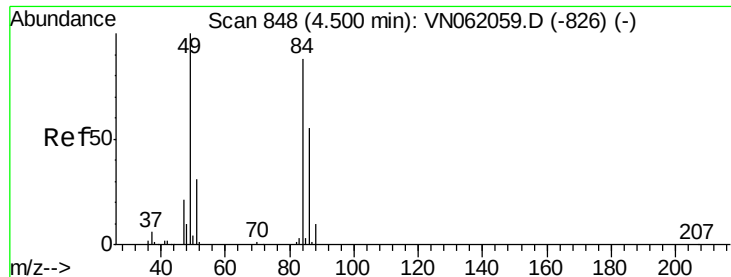
Tgt Ion: 43 Resp: 4339

Ion Ratio Lower Upper

43 100

74 20.4 22.9 34.3#

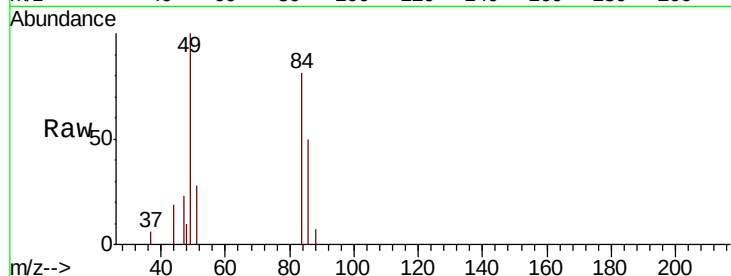




#20
Methvlene Chloride
Concen: 3.753 ug/l
RT: 4.50 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	6394
Ion	Ratio	Lower	Upper
84	100		
49	123.8	90.6	136.0
51	34.7	27.8	41.8
86	62.1	50.1	75.1



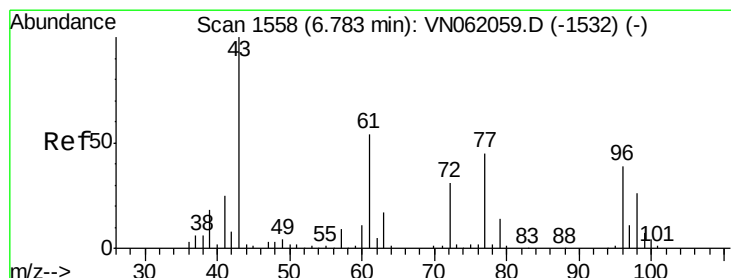
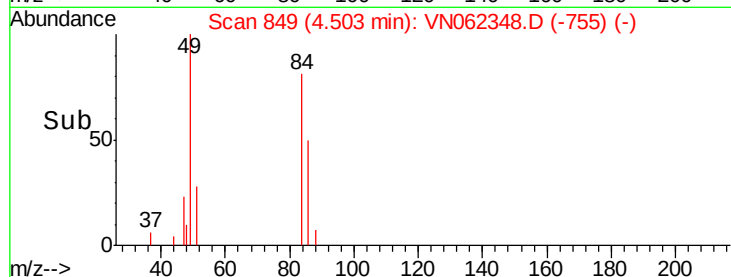
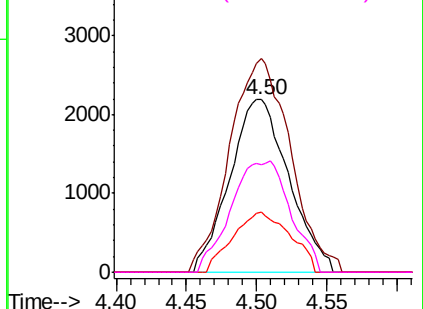
Abundance

Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

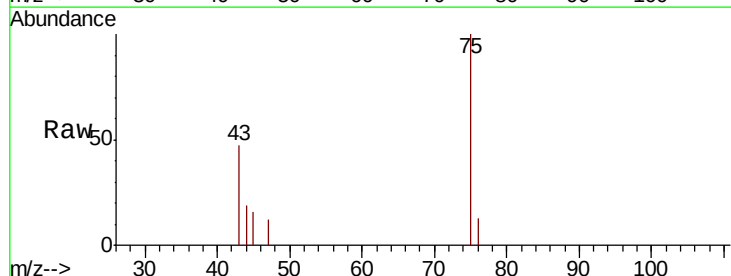
Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25
2-Butanone
Concen: 2.108 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

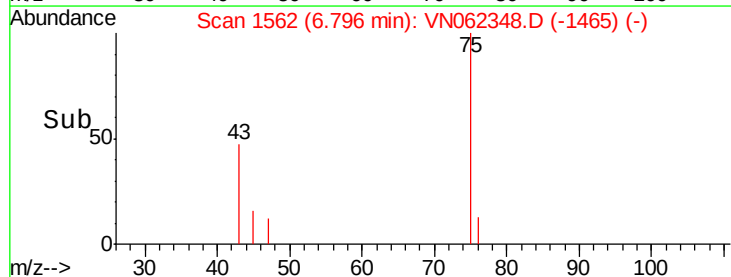
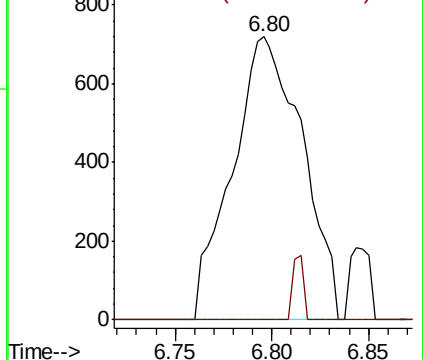
Tgt Ion:	43	Resp:	1815
Ion	Ratio	Lower	Upper
43	100		
72	0.0	24.8	37.2#

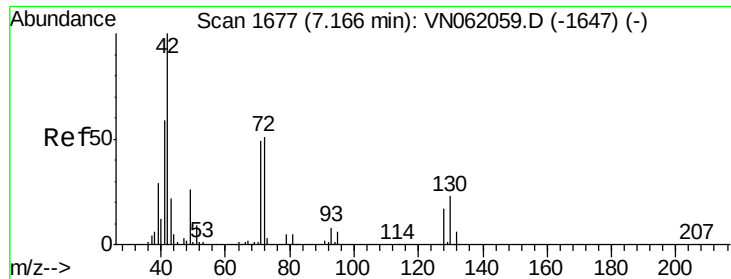


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

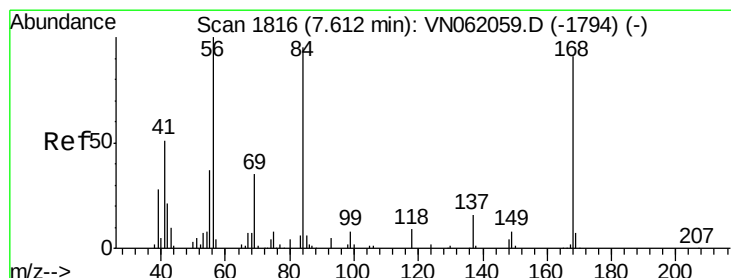
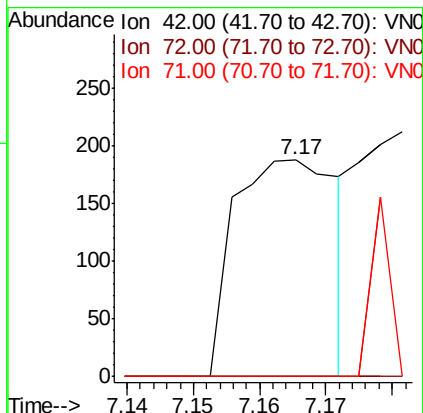
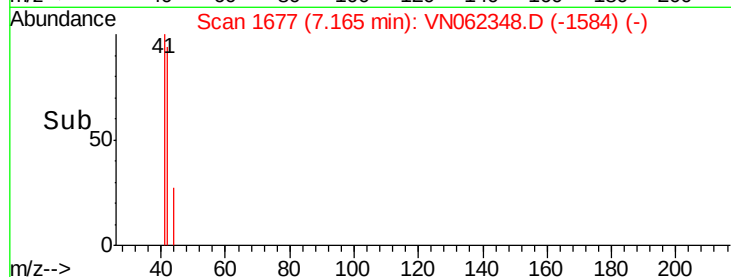
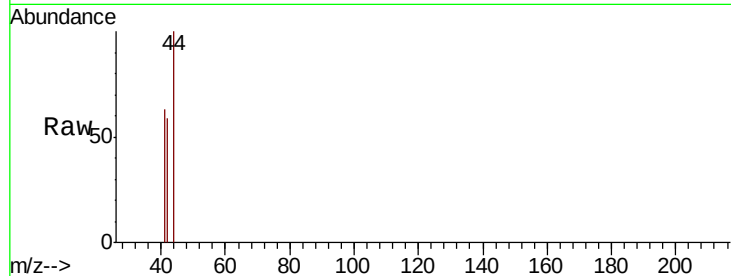




#29
Tetrahydrofuran
Concen: 0.358 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. -0.00 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

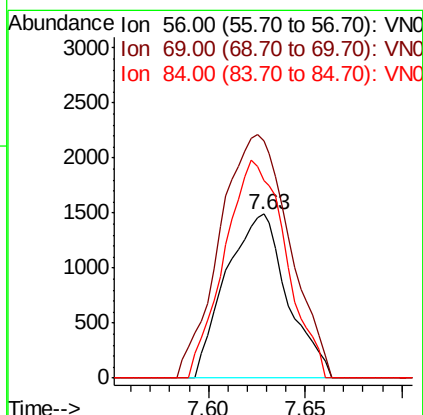
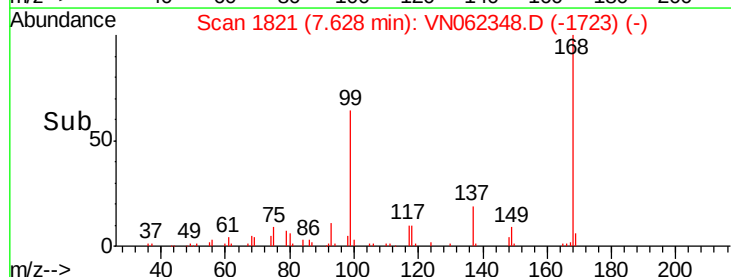
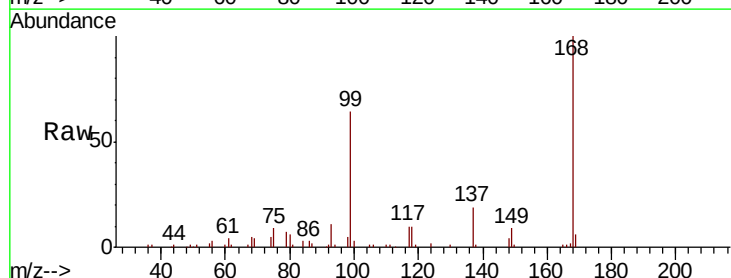
Instrument :
MSVOA_N
ClientSampled :

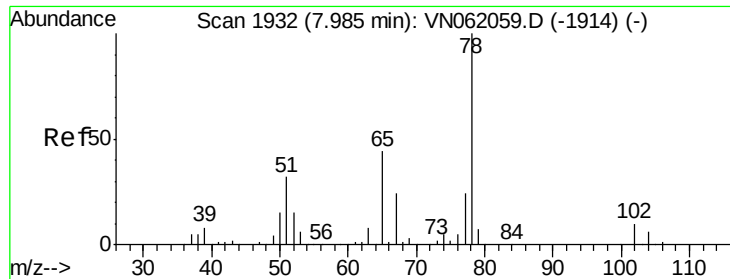
Tot Ion: 42 Resp: 202
Ion Ratio Lower Upper
42 100
72 0.0 41.1 61.7#
71 14.9 38.2 57.4#



#31
Cyclohexane
Concen: 1.358 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

Tgt Ion: 56 Resp: 3306
Ion Ratio Lower Upper
56 100
69 145.0 28.0 42.0#
84 120.5 76.1 114.1#

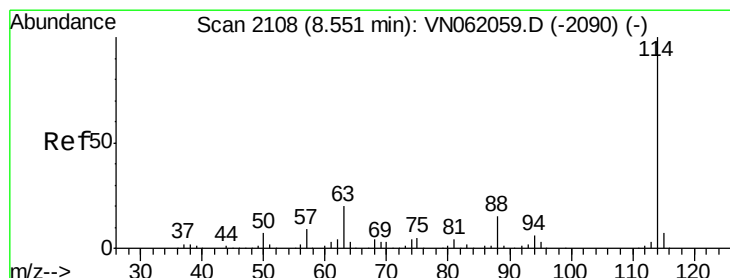
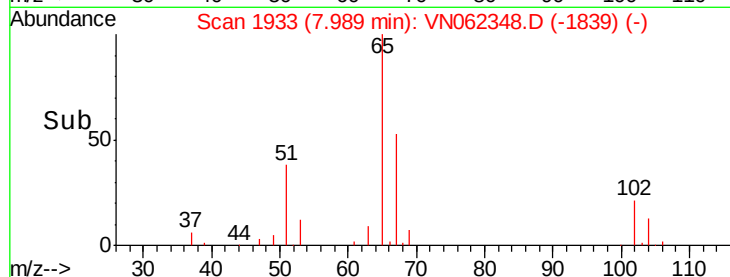
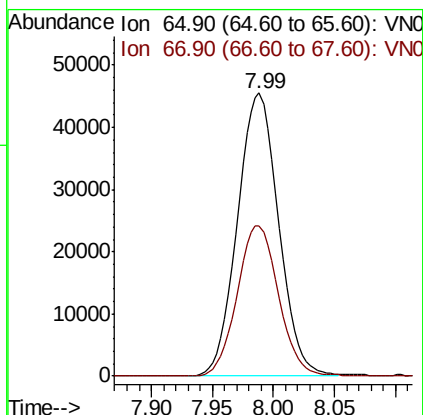
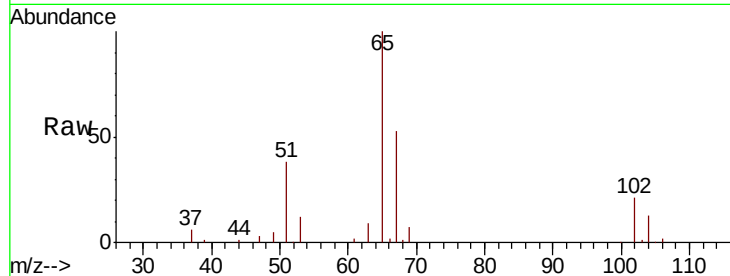




#33
 1,2-Dichloroethane-d4
 Concen: 60.410 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062348.D
 Acq: 2 Jul 2020 21:19

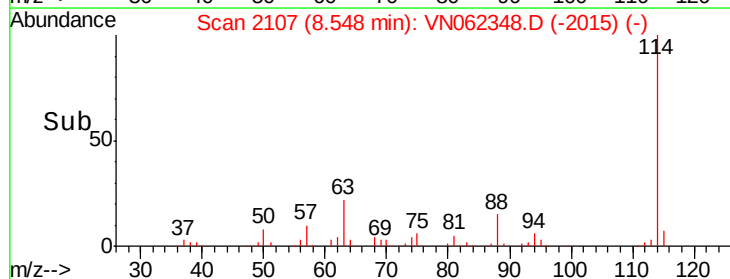
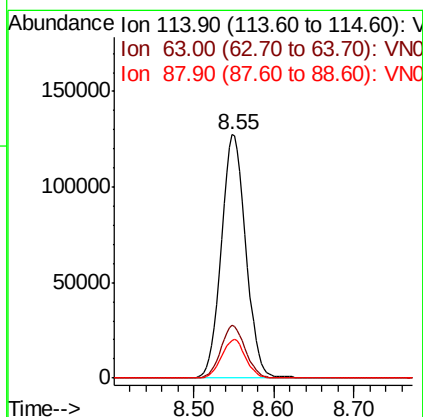
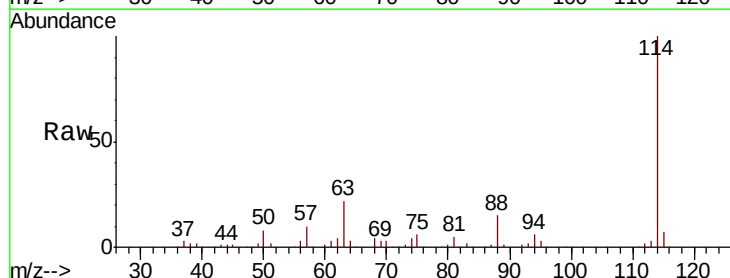
Instrument :
 MSVOA_N
 ClientSampled :

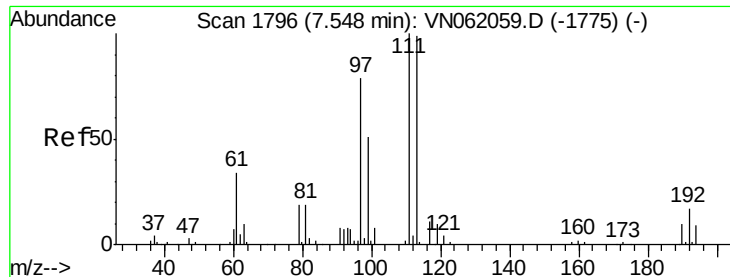
Tot Ion: 65 Resp: 106430
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN062348.D
 Acq: 2 Jul 2020 21:19

Tgt Ion: 114 Resp: 268181
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 39.2
 88 15.4 0.0 30.8

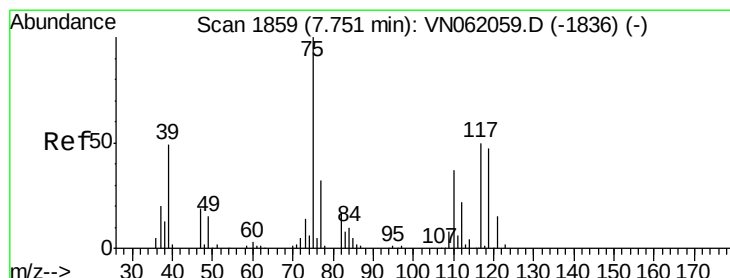
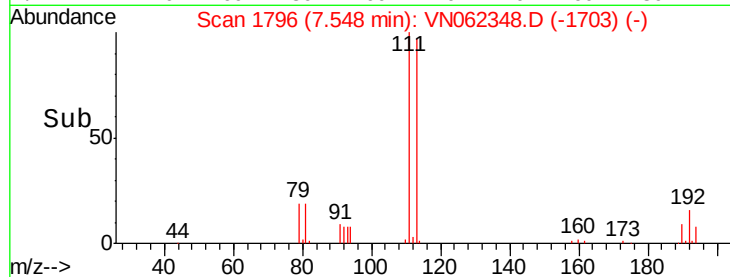
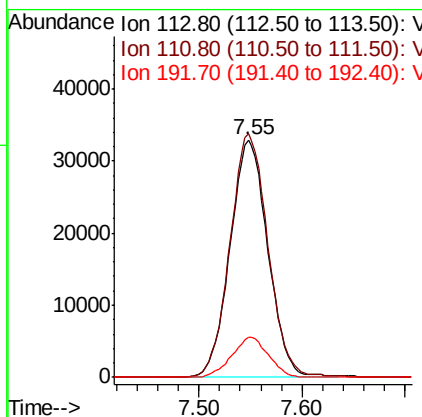
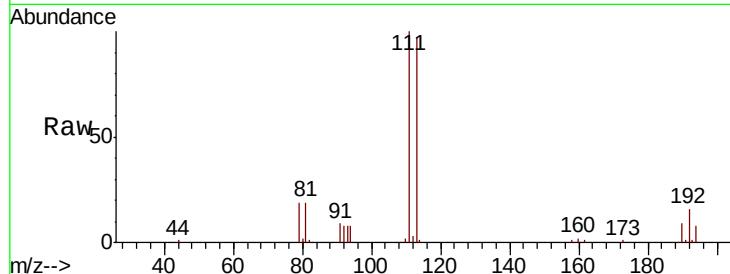




#35
 Dibromofluoromethane
 Concen: 48.762 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062348.D
 Acq: 2 Jul 2020 21:19

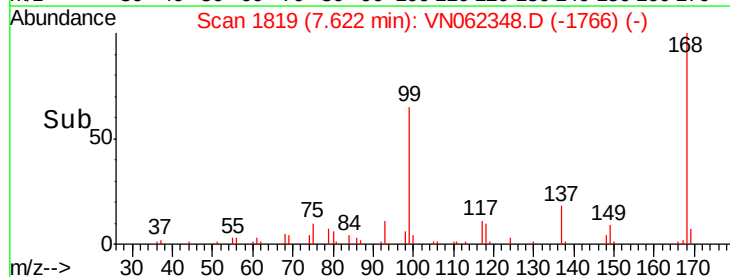
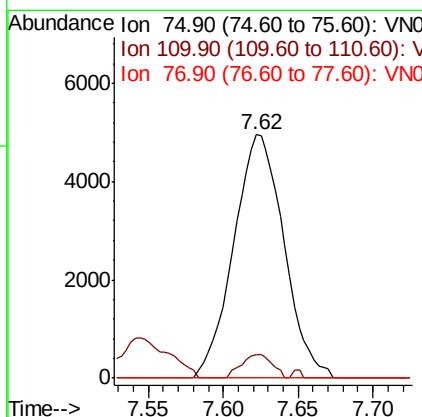
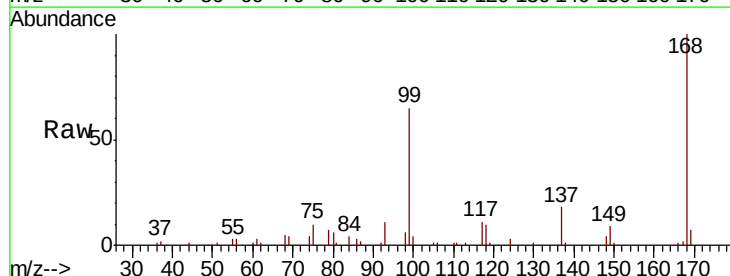
Instrument :
 MSVOA_N
 ClientSampleId :

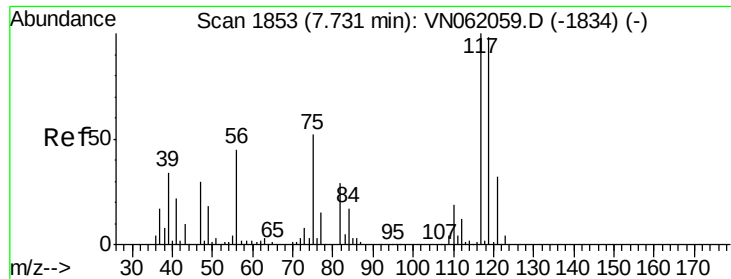
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.2	123.4
192	16.4	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.292 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062348.D
 Acq: 2 Jul 2020 21:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.9	17.9	53.8#
77	0.0	24.9	37.3#

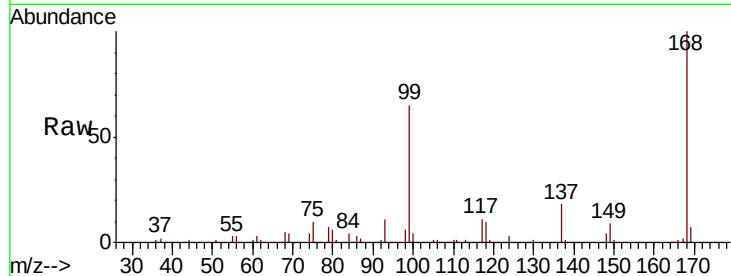




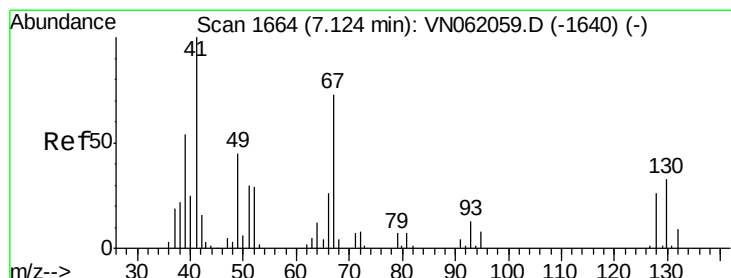
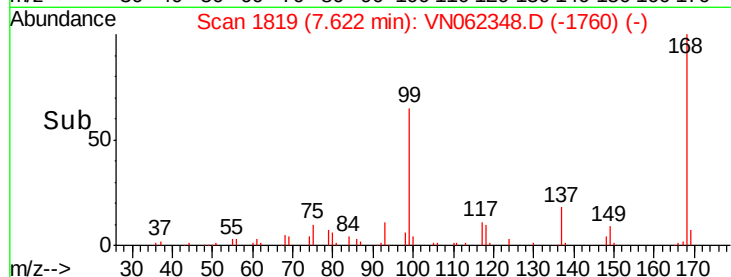
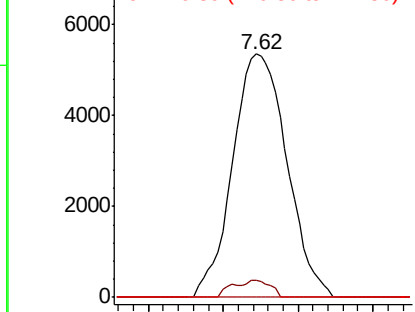
#38
Carbon Tetrachloride
Concen: 5.299 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.11 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 13468
Ion Ratio Lower Upper
117 100
119 7.1 78.2 117.2#
121 0.0 25.8 38.6#

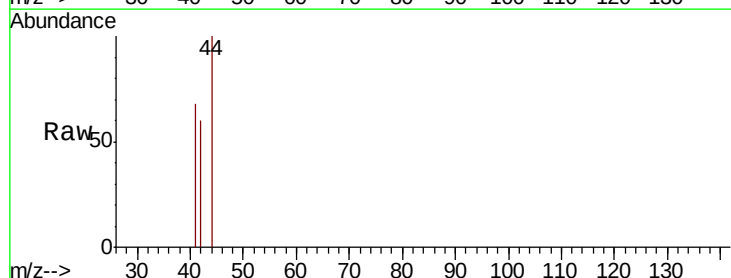


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

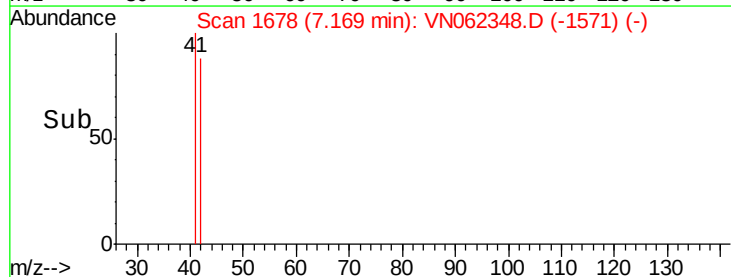
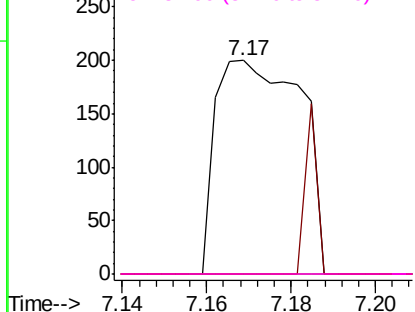


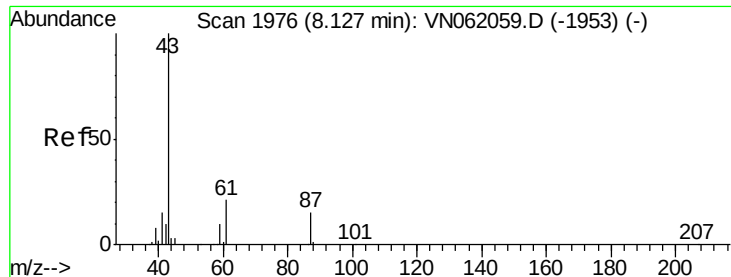
#41
Methacrylonitrile
Concen: 0.271 ug/l
RT: 7.17 min Scan# 1678
Delta R.T. 0.04 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

Tgt Ion: 41 Resp: 280
Ion Ratio Lower Upper
41 100
39 11.1 44.2 66.2#
67 0.0 79.5 119.3#
52 0.0 32.3 48.5#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 12.756 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN062348.D

Acq: 2 Jul 2020 21:19

Instrument :

MSVOA_N

ClientSampled :

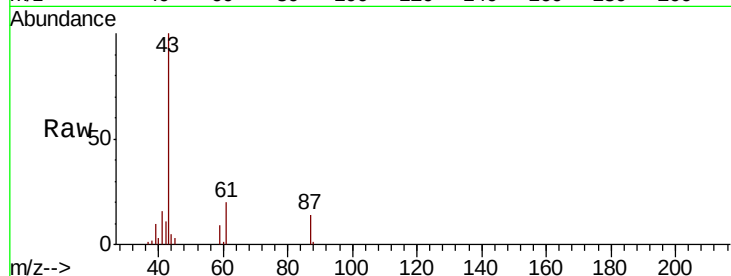
Tot Ion: 43 Resp: 46415

Ion Ratio Lower Upper

43 100

61 20.8 17.2 25.8

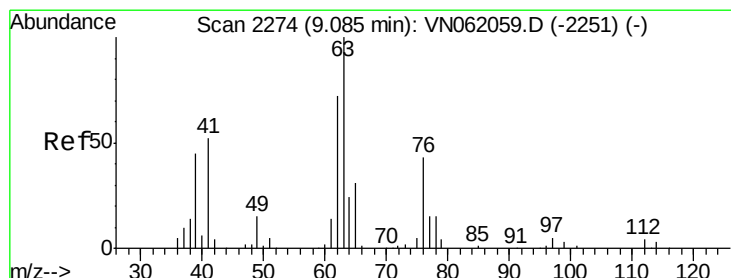
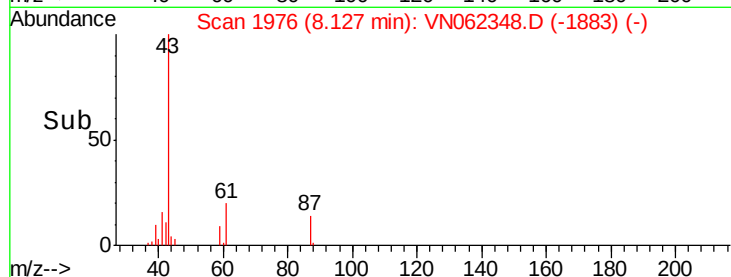
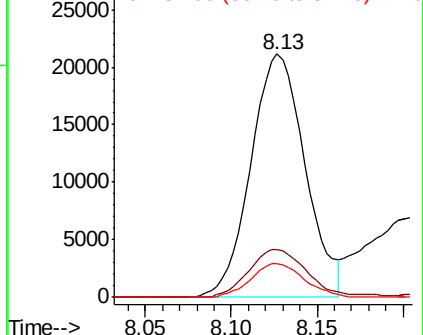
87 13.6 12.1 18.1



Abundance Ion 43.00 (42.70 to 43.70): VN062348.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN062348.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN062348.D (-1883) (-)



#45

1,2-Dichloropropane

Concen: 0.536 ug/l

RT: 9.23 min Scan# 2319

Delta R.T. 0.14 min

Lab File: VN062348.D

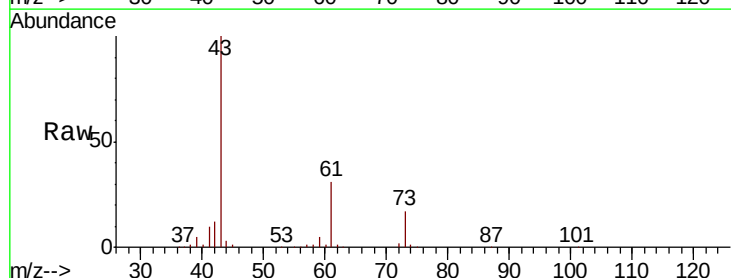
Acq: 2 Jul 2020 21:19

Tgt Ion: 63 Resp: 1087

Ion Ratio Lower Upper

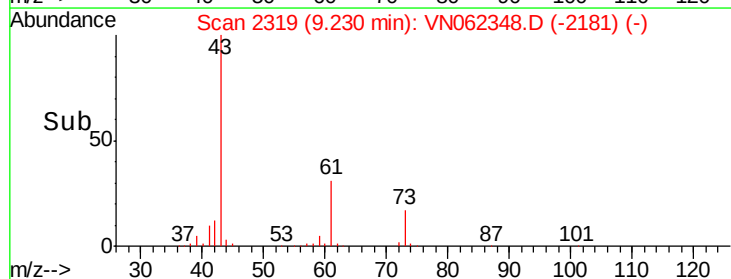
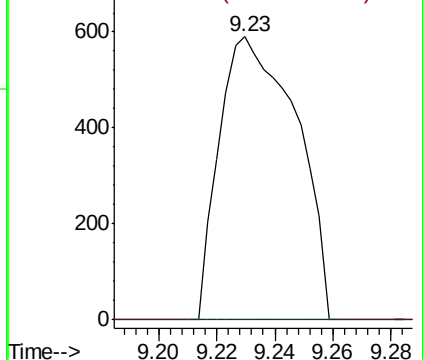
63 100

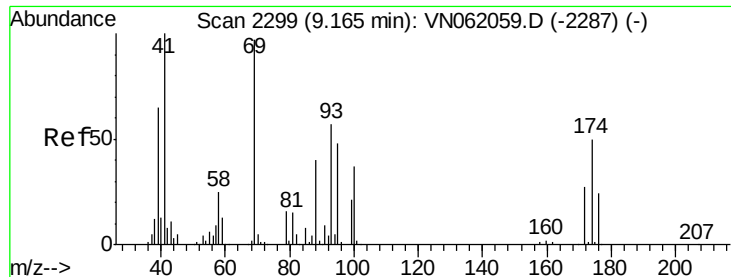
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN062348.D (-2181) (-)

Ion 64.90 (64.60 to 65.60): VN062348.D (-2181) (-)

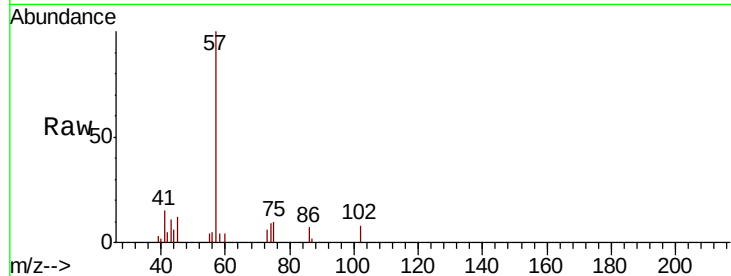




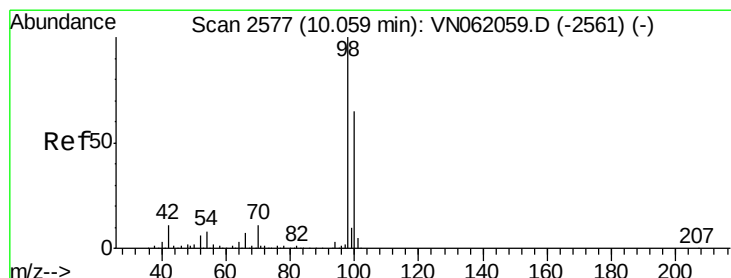
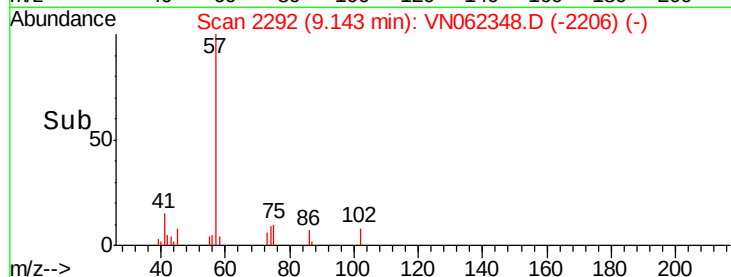
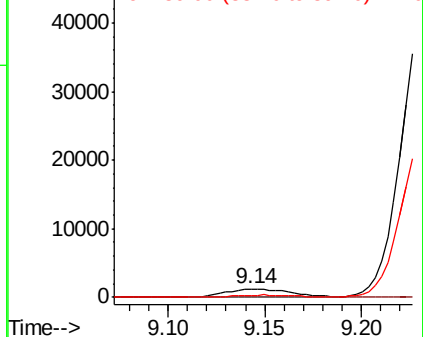
#48
Methvl methacrylate
Concen: 1.721 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2808
Ion Ratio Lower Upper
41 100
69 0.0 80.7 121.1#
39 0.0 54.5 81.7#

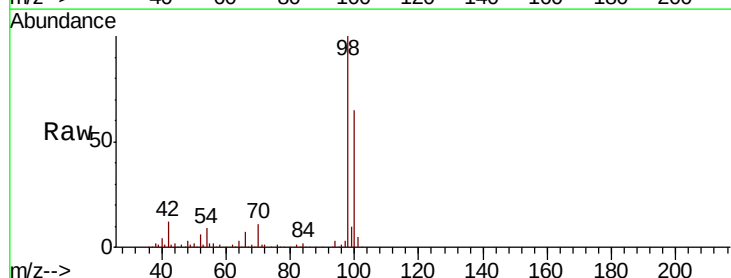


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

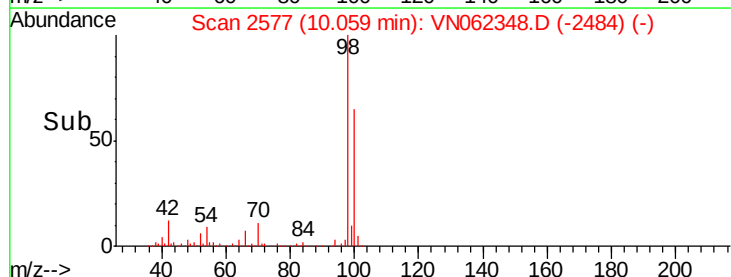
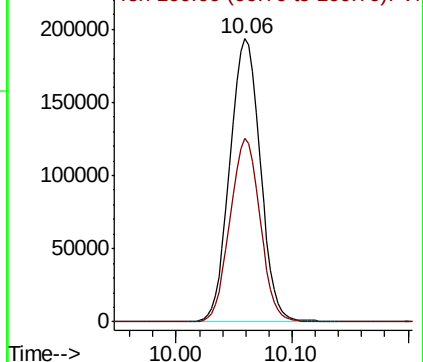


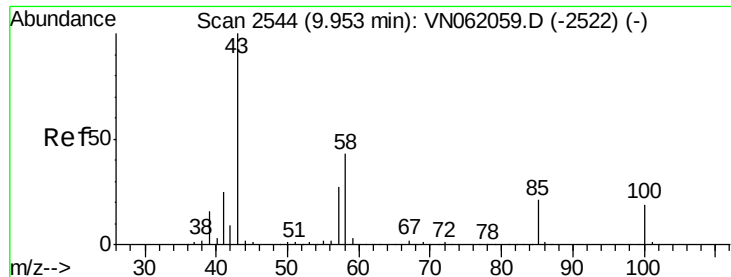
#50
Toluene-d8
Concen: 51.213 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

Tgt Ion: 98 Resp: 352213
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

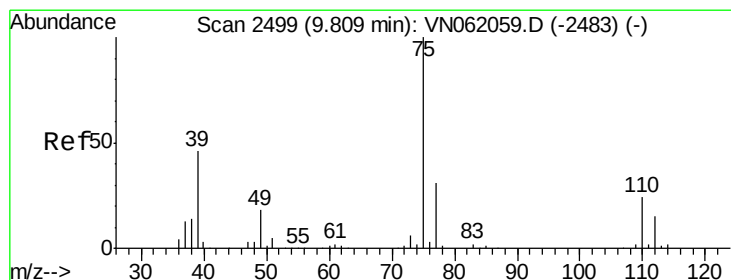
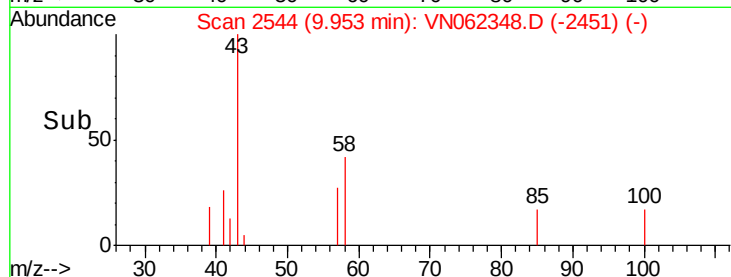
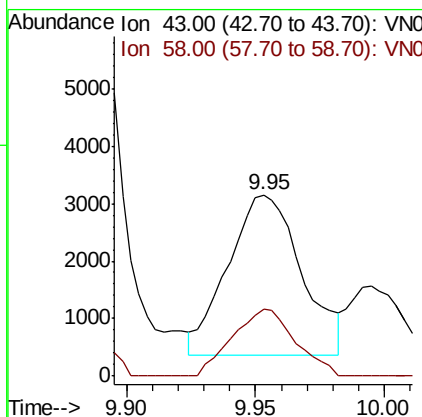
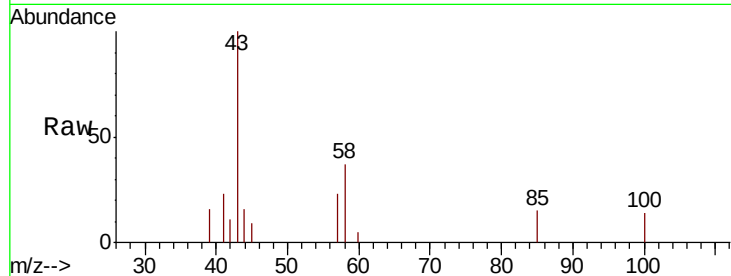




#51
4-Methyl-2-Pentanone
Concen: 2.611 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

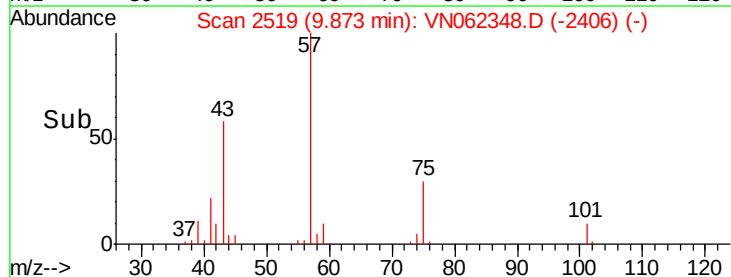
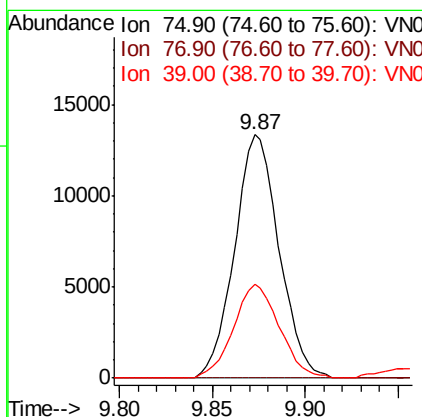
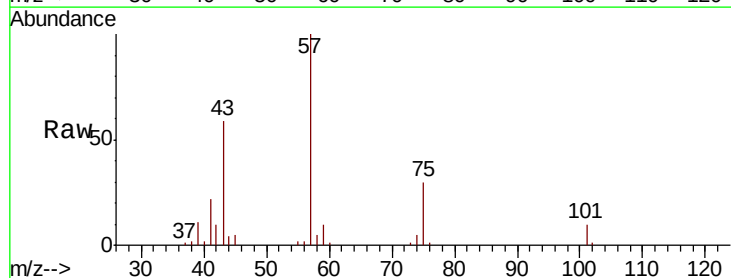
Instrument :
MSVOA_N
ClientSampled :

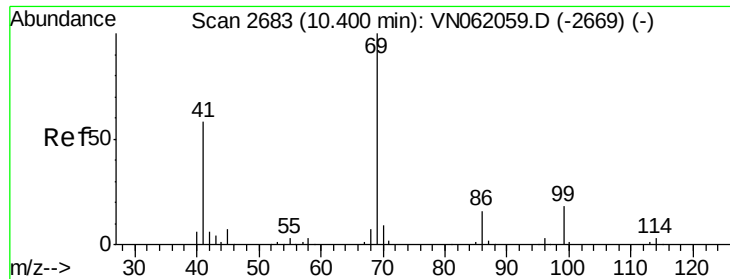
Tot Ion: 43 Resp: 5550
Ion Ratio Lower Upper
43 100
58 35.9 34.2 51.2



#54
cis-1,3-Dichloropropene
Concen: 6.810 ug/l
RT: 9.87 min Scan# 2519
Delta R.T. 0.06 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

Tgt Ion: 75 Resp: 22133
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#
39 38.4 36.9 55.3





#56

Ethyl methacrylate

Concen: 0.367 ug/l

RT: 10.52 min Scan# 2719

Delta R.T. 0.12 min

Lab File: VN062348.D

Acq: 2 Jul 2020 21:19

Instrument :

MSVOA_N

ClientSampled :

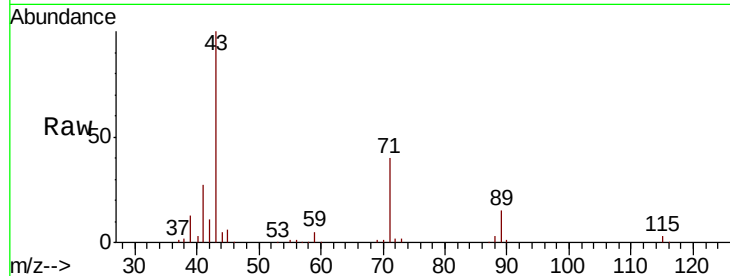
Tot Ion: 69 Resp: 966

Ion Ratio Lower Upper

69 100

41 5077.1 46.6 70.0#

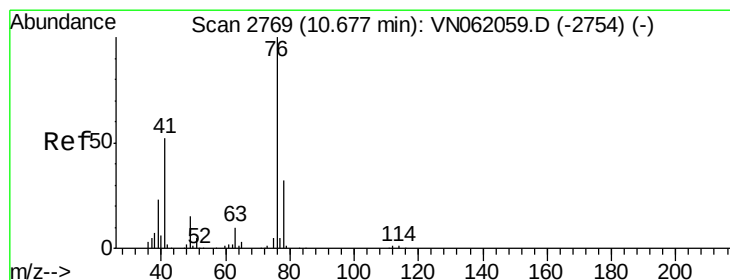
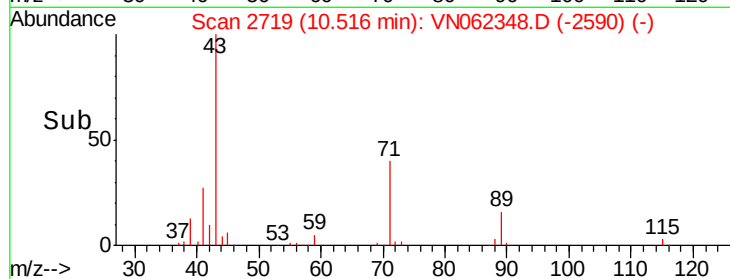
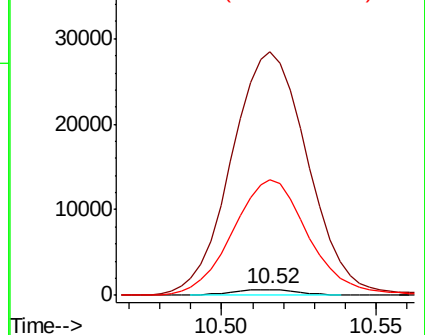
39 2397.3 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN062348.D (-2669) (-)

Ion 41.00 (40.70 to 41.70): VN062348.D (-2669) (-)

Ion 39.00 (38.70 to 39.70): VN062348.D (-2669) (-)



#57

1,3-Dichloropropane

Concen: 1.203 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062348.D

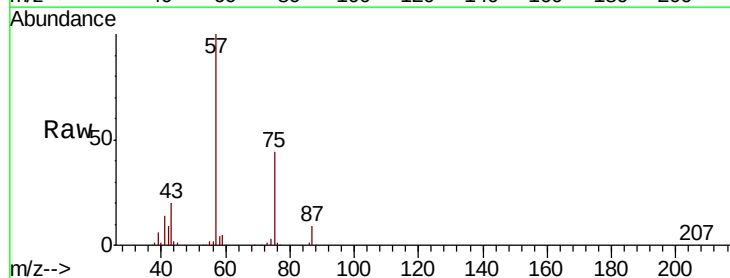
Acq: 2 Jul 2020 21:19

Tgt Ion: 76 Resp: 4082

Ion Ratio Lower Upper

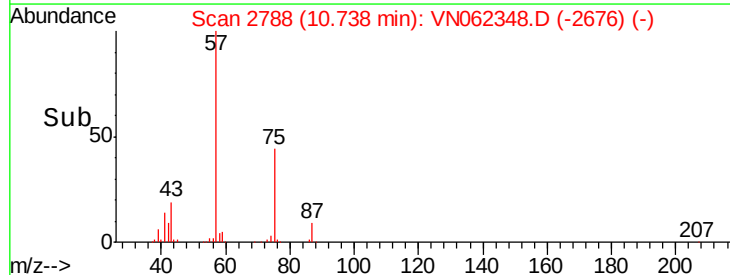
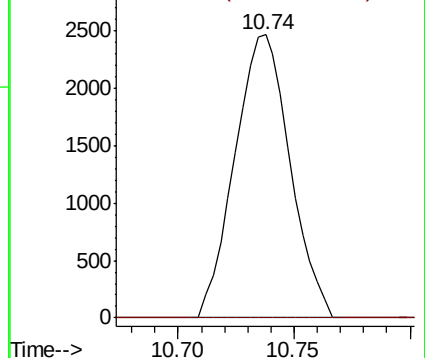
76 100

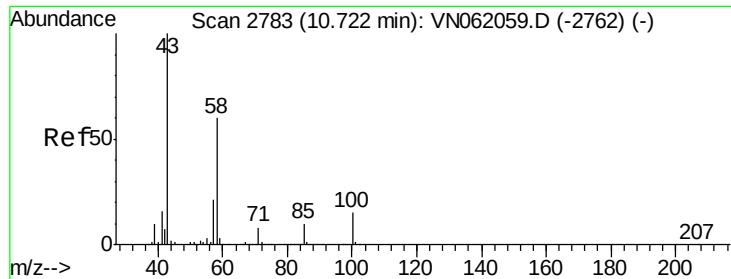
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN062348.D (-2676) (-)

Ion 77.90 (77.60 to 78.60): VN062348.D (-2676) (-)

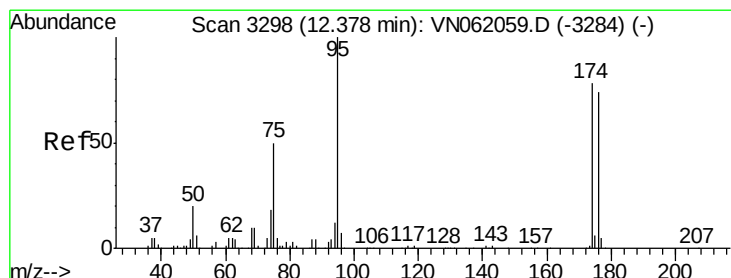
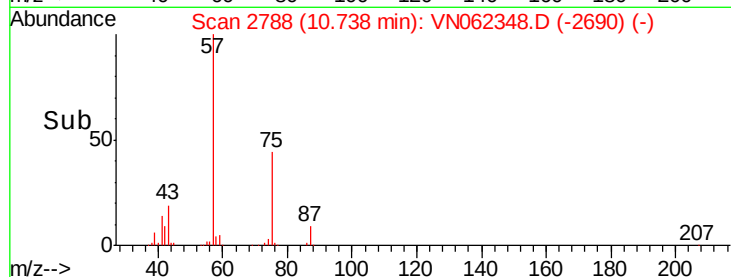
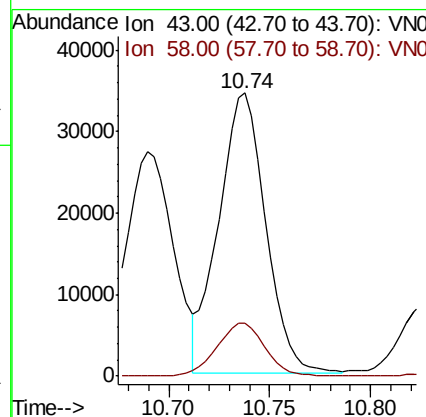
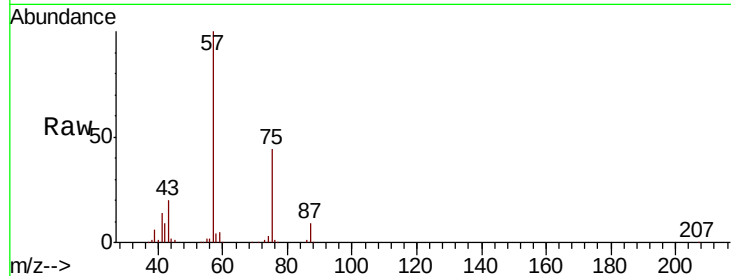




#59
2-Hexanone
Concen: 36.260 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.02 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

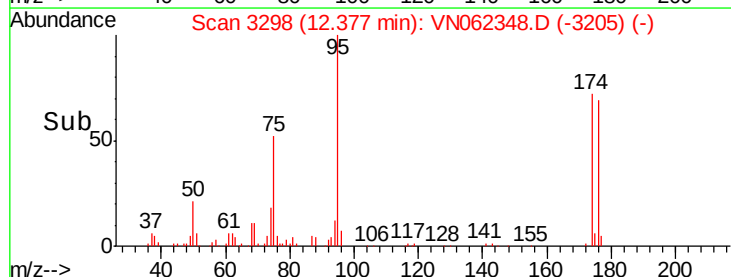
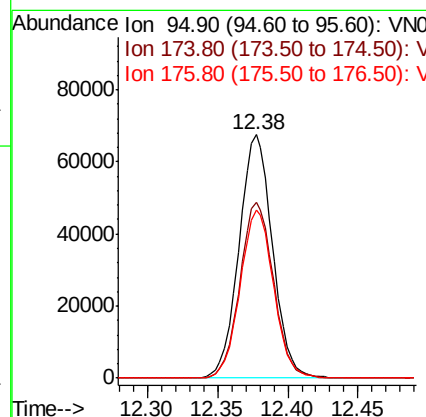
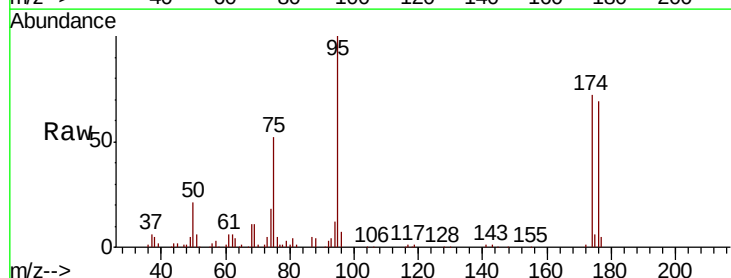
Instrument :
MSVOA_N
ClientSampleId :

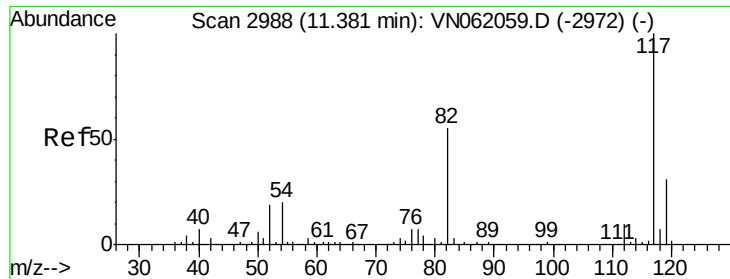
Tot Ion: 43 Resp: 55665
Ion Ratio Lower Upper
43 100
58 19.4 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 48.409 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

Tgt Ion: 95 Resp: 112484
Ion Ratio Lower Upper
95 100
174 72.6 0.0 154.8
176 69.1 0.0 147.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN062348.D

Acq: 2 Jul 2020 21:19

Instrument :

MSVOA_N

ClientSampleId :

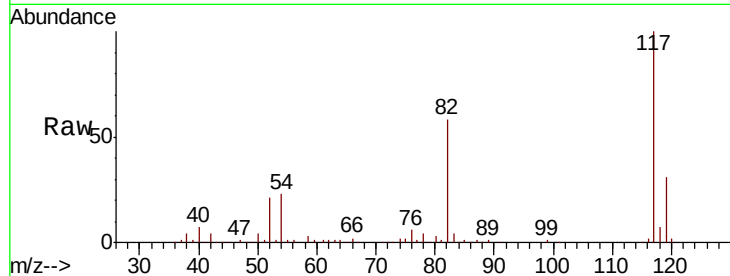
Tot Ion:117 Resp: 265151

Ion Ratio Lower Upper

117 100

82 57.7 43.8 65.8

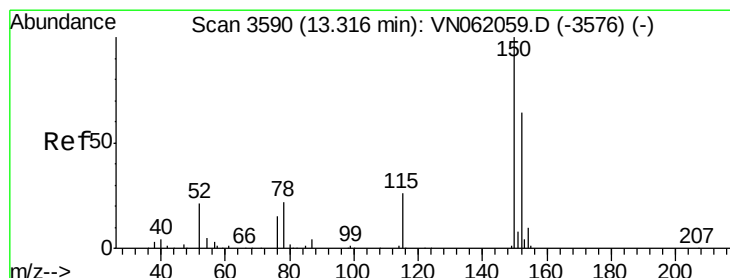
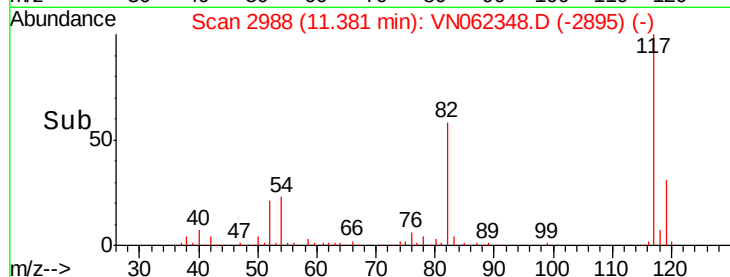
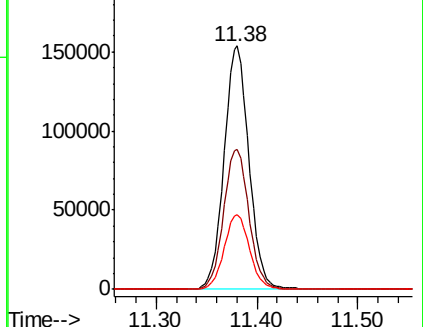
119 30.7 25.2 37.8



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062348.D

Acq: 2 Jul 2020 21:19

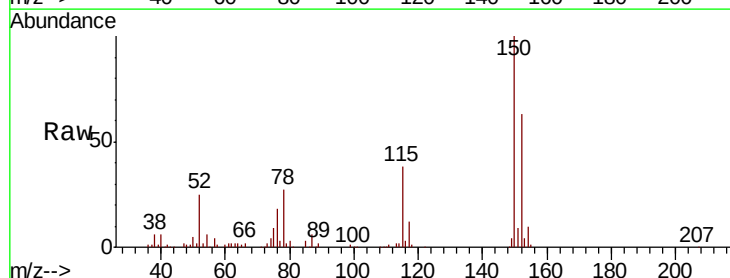
Tgt Ion:152 Resp: 92829

Ion Ratio Lower Upper

152 100

115 61.5 29.5 88.5

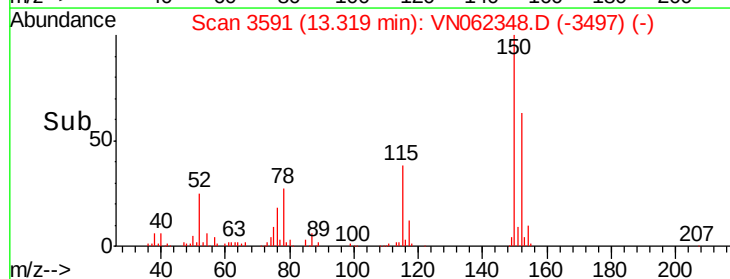
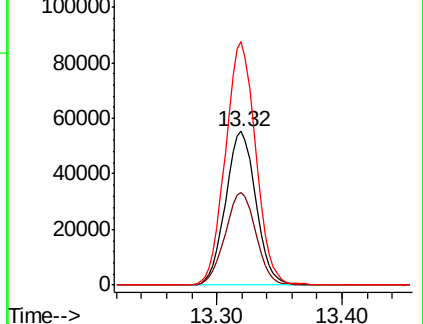
150 158.3 0.0 351.4

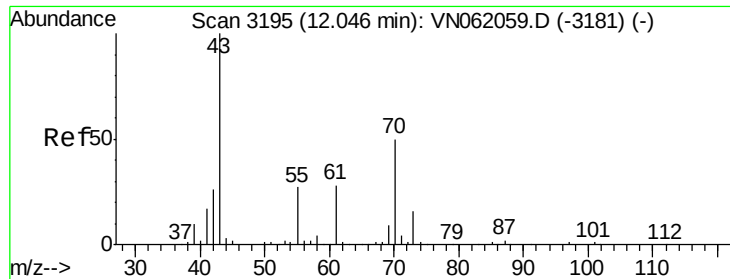


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.754 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062348.D

Acq: 2 Jul 2020 21:19

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 1164

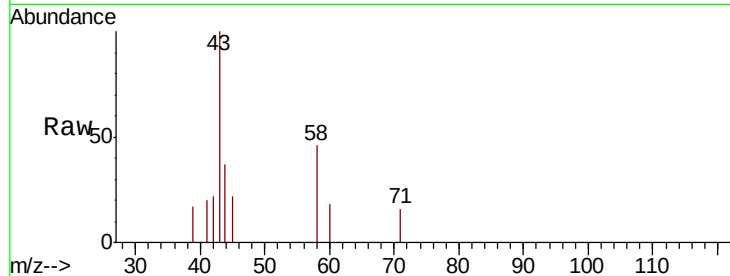
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#



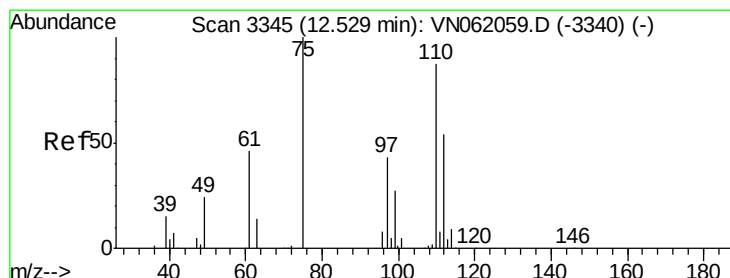
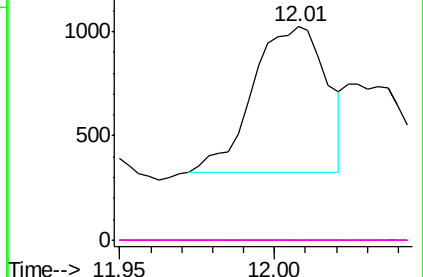
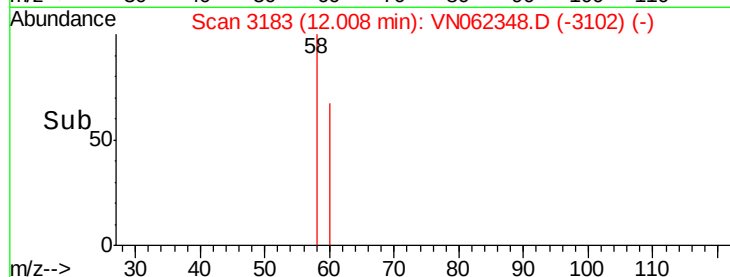
Abundance Ion 43.00 (42.70 to 43.70): VN0

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

Time--> 11.95 12.00



#76

1,2,3-Trichloropropane

Concen: 27.567 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062348.D

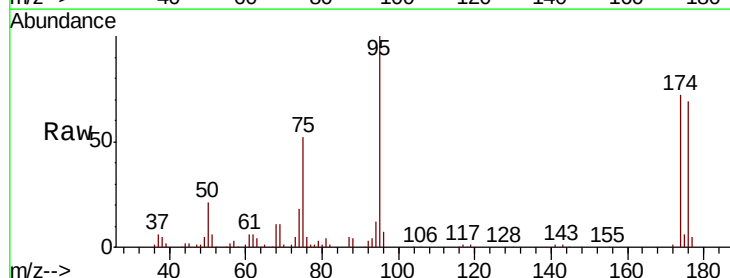
Acq: 2 Jul 2020 21:19

Tgt Ion: 75 Resp: 60242

Ion Ratio Lower Upper

75 100

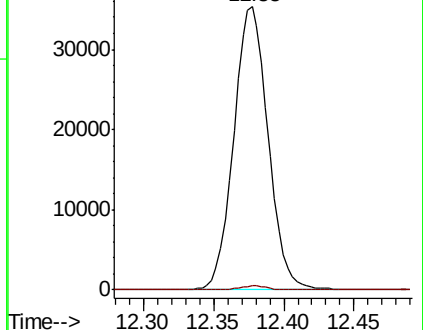
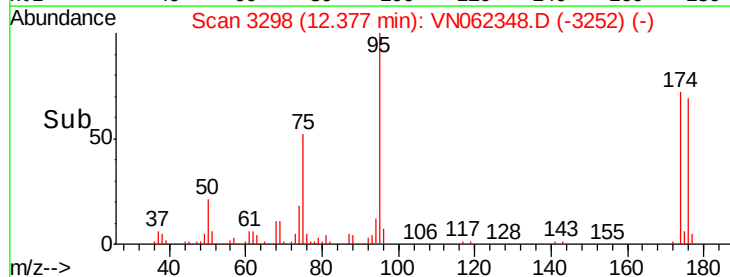
77 1.1 0.0 0.0#

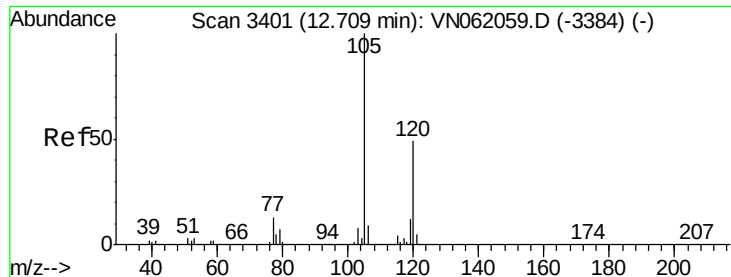


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

Time--> 12.30 12.35 12.40 12.45

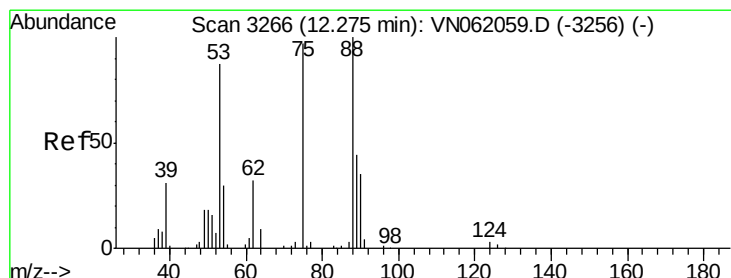
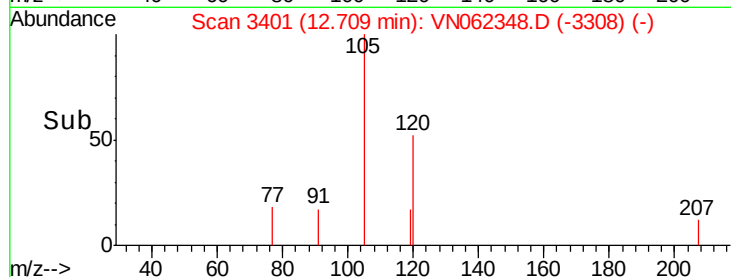
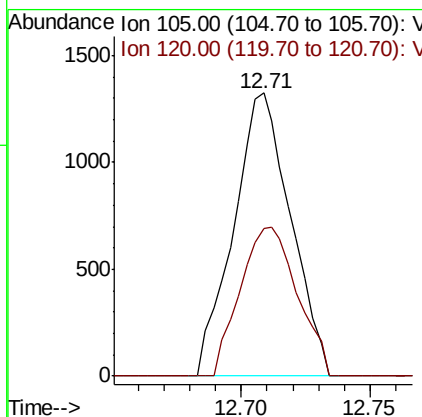
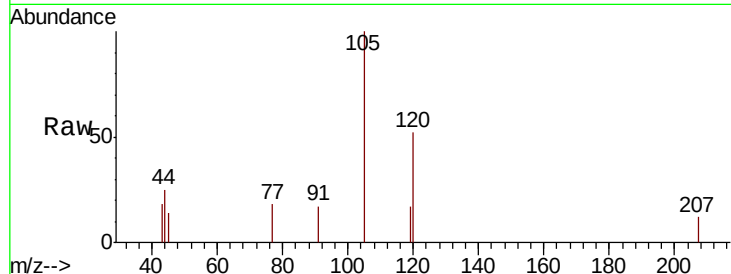




#80
 1,3,5-Trimethylbenzene
 Concen: 0.350 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. -0.00 min
 Lab File: VN062348.D
 Acq: 2 Jul 2020 21:19

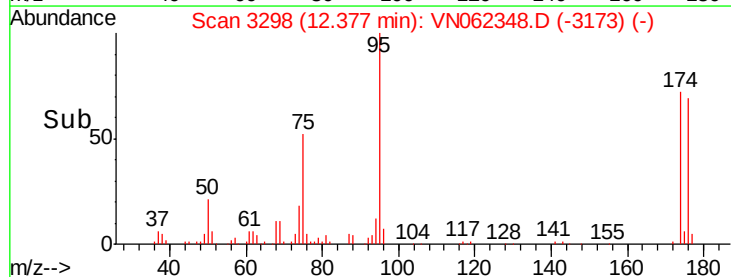
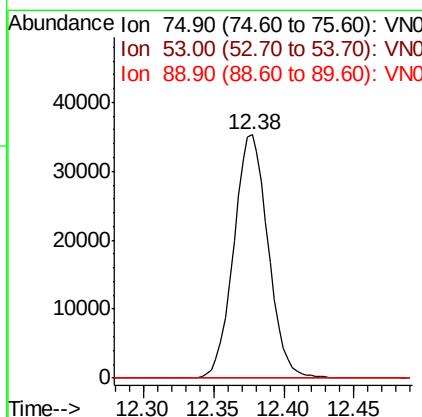
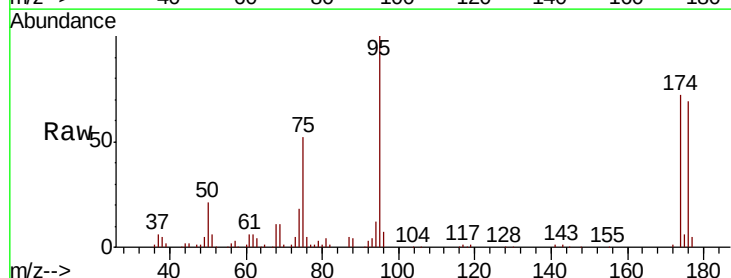
Instrument :
 MSVOA_N
 ClientSampled :

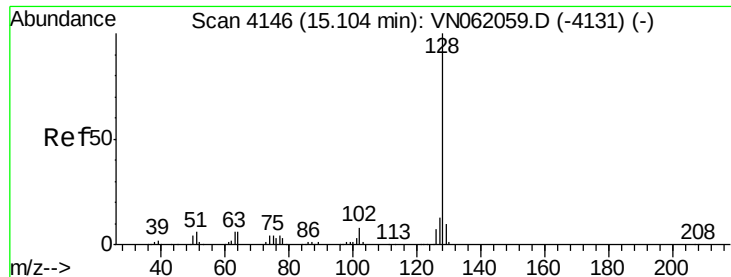
Tot Ion:105 Resp: 2041
 Ion Ratio Lower Upper
 105 100
 120 52.9 24.6 74.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.507 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062348.D
 Acq: 2 Jul 2020 21:19

Tgt Ion: 75 Resp: 60242
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.0 108.0#
 89 0.0 36.9 55.3#





#95
Naphthalene
Concen: 4.028 ug/l
RT: 15.10 min Scan# 4146
Delta R.T. -0.00 min
Lab File: VN062348.D
Acq: 2 Jul 2020 21:19

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	13.0#

