

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101520\
 Data File : VN064156.D
 Acq On : 15 Oct 2020 20:19
 Operator : JC/MD
 Sample : L4417-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-16

Quant Time: Oct 16 02:28:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101420W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 15 01:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	272894	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	527690	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	553136	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	194578	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	220956	56.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.70%	
35) Dibromofluoromethane	7.55	113	187735	51.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.80%	
50) Toluene-d8	10.06	98	683704	49.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.22%	
62) 4-Bromofluorobenzene	12.38	95	233441	49.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.56%	

Target Compounds

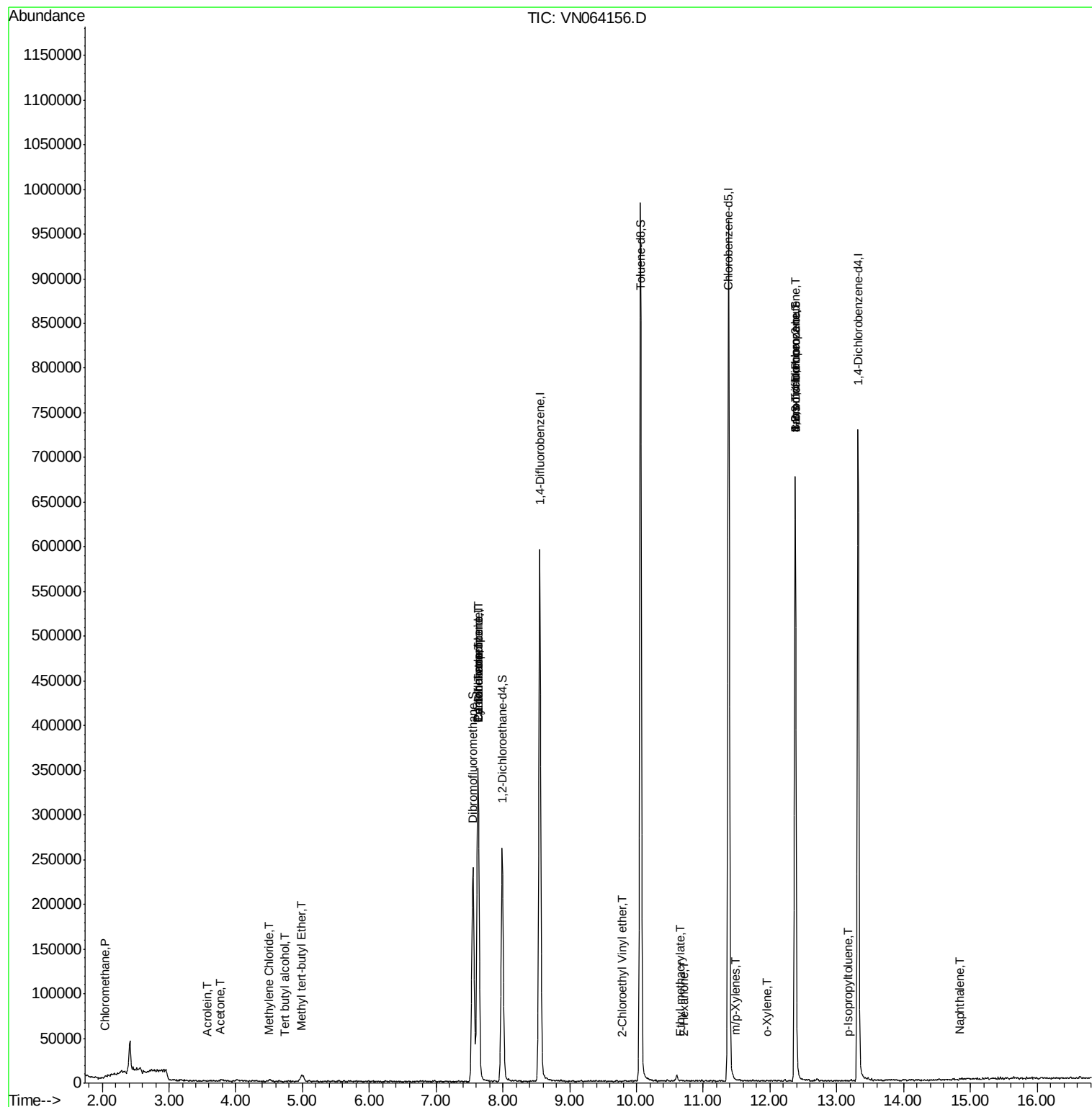
						Qvalue
3) Chloromethane	2.04	50	1054	0.329	ug/l	98
11) Tert butyl alcohol	4.73	59	442	1.027	ug/l #	64
13) Acrolein	3.57	56	136	0.385	ug/l #	15
16) Acetone	3.77	43	1612	1.398	ug/l	89
19) Methyl tert-butyl Ether	4.99	73	10790	1.346	ug/l #	85
20) Methylene Chloride	4.51	84	1188	0.333	ug/l #	60
31) Cyclohexane	7.63	56	7197	1.675	ug/l #	20
36) 1,1-Dichloropropene	7.62	75	23430	4.607	ug/l #	49
38) Carbon Tetrachloride	7.63	117	28122	5.142	ug/l #	16
56) Ethyl methacrylate	10.65	69	33	2.304	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.78	63	69	12.242	ug/l #	48
59) 2-Hexanone	10.72	43	205	6.896	ug/l #	24
68) m/p-Xylenes	11.50	106	67	2.200	ug/l #	1
69) o-Xylene	11.95	106	32	1.587	ug/l #	1
71) Bromoform	12.38	173	2511	2.886	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	120509	26.399	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	120509	80.653	ug/l #	12
86) p-Isopropyltoluene	13.17	119	34	0.665	ug/l #	50
95) Naphthalene	14.83	128	79	3.805	ug/l #	70

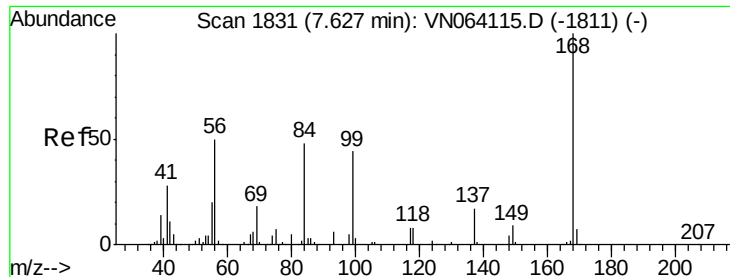
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064156.D

Acq: 15 Oct 2020 20:19

Instrument :

MSVOA_N

ClientSampleId :

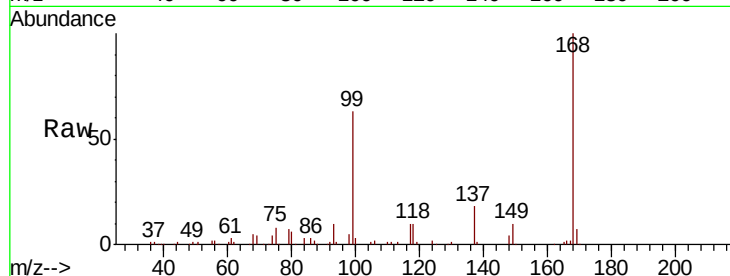
MW-16

Tot Ion:168 Resp: 272894

Ion Ratio Lower Upper

168 100

99 62.7 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): VN064115.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN064115.D (-1811) (-)

7.63

120000

100000

80000

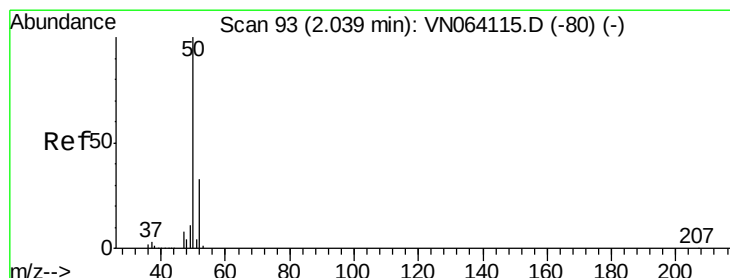
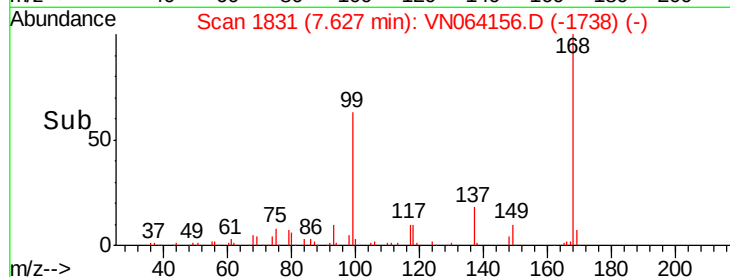
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.329 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.00 min

Lab File: VN064156.D

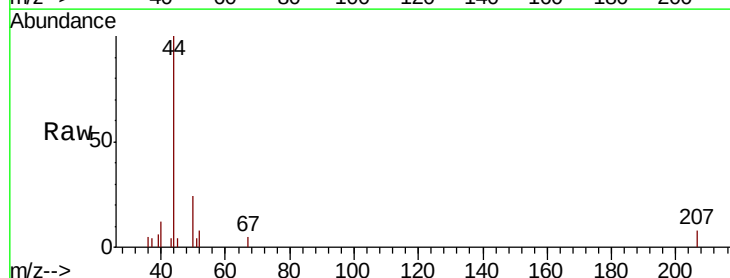
Acq: 15 Oct 2020 20:19

Tgt Ion: 50 Resp: 1054

Ion Ratio Lower Upper

50 100

52 34.0 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VN064115.D (-80) (-)

Ion 51.90 (51.60 to 52.60): VN064115.D (-80) (-)

2.04

1000

800

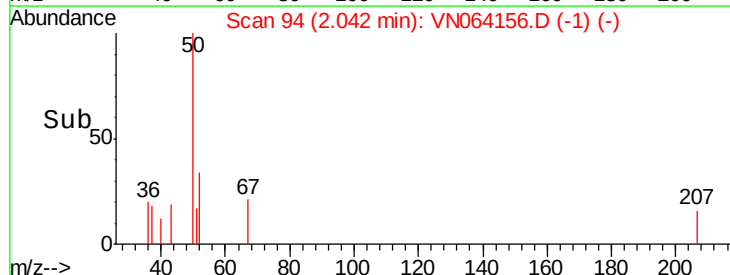
600

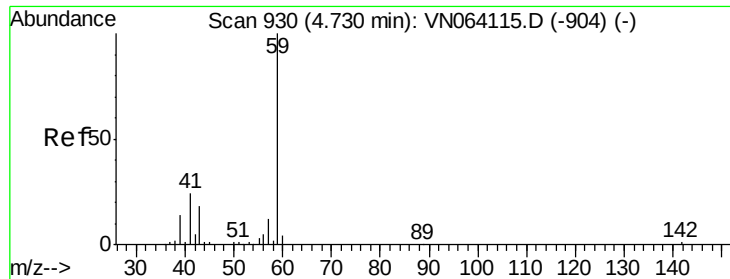
400

200

0

Time--> 2.00 2.02 2.04 2.06

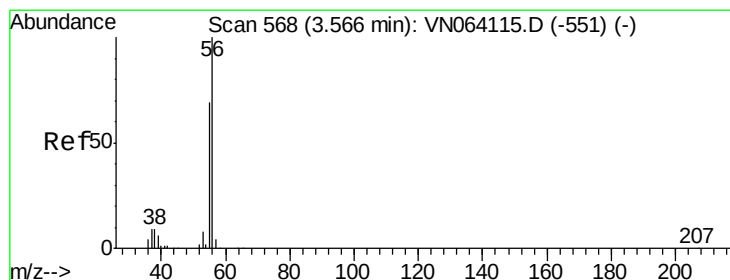
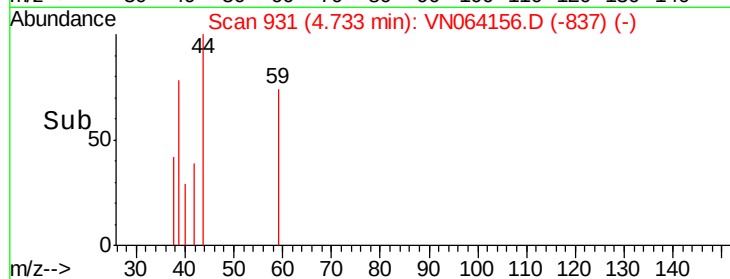
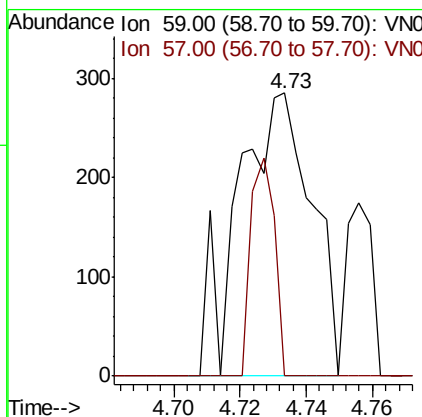
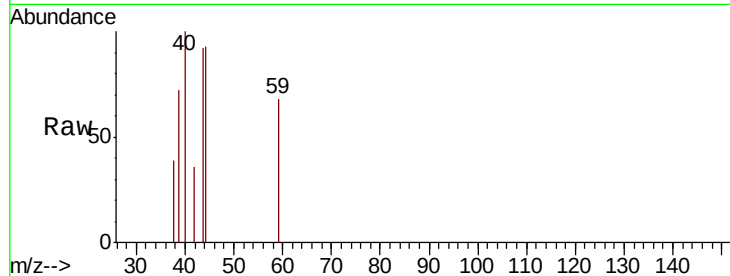




#11
Tert butyl alcohol
Concen: 1.027 ug/l
RT: 4.73 min Scan# 931
Delta R.T. 0.00 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

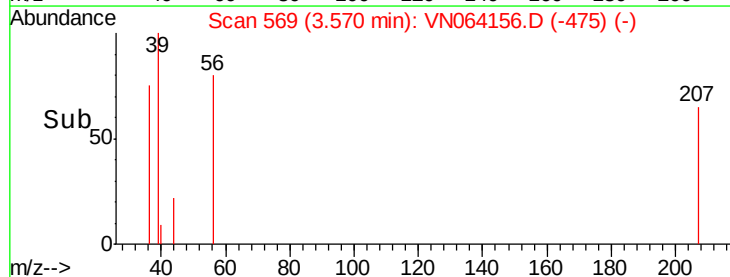
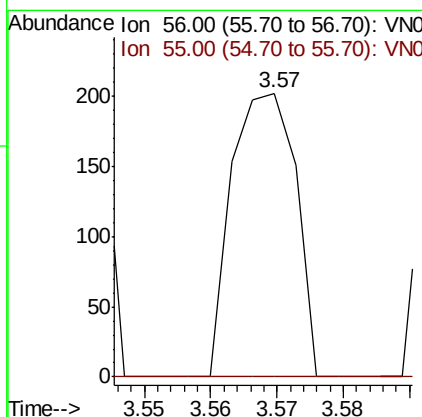
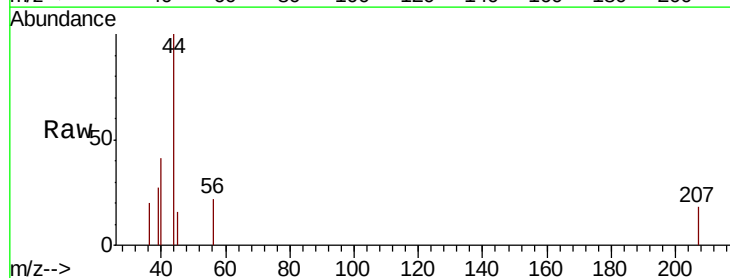
Instrument :
MSVOA_N
ClientSampleId :
MW-16

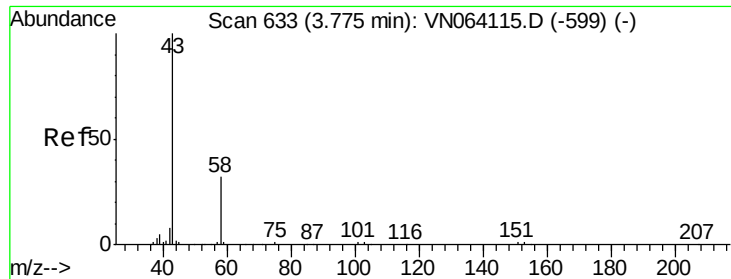
Tot Ion: 59 Resp: 442
Ion Ratio Lower Upper
59 100
57 24.9 8.9 13.3#



#13
Acrolein
Concen: 0.385 ug/l
RT: 3.57 min Scan# 569
Delta R.T. 0.00 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

Tgt Ion: 56 Resp: 136
Ion Ratio Lower Upper
56 100
55 0.0 55.8 83.6#





#16

Acetone

Concen: 1.398 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN064156.D

Acq: 15 Oct 2020 20:19

Instrument :

MSVOA_N

ClientSampled :

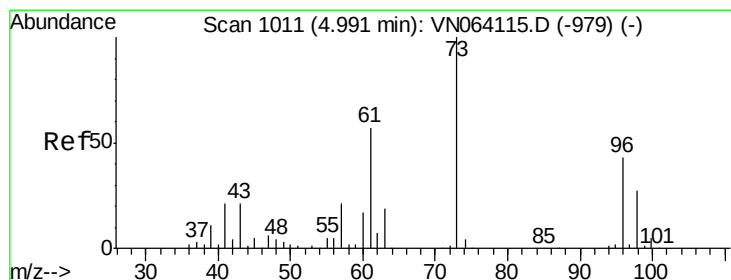
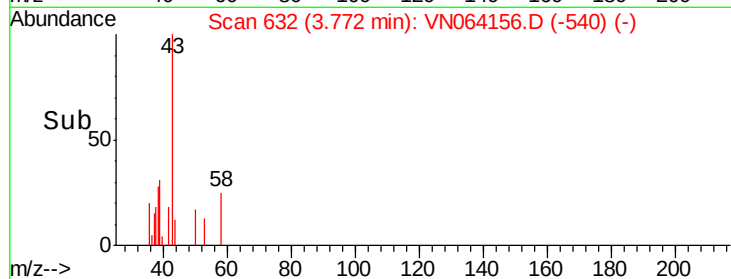
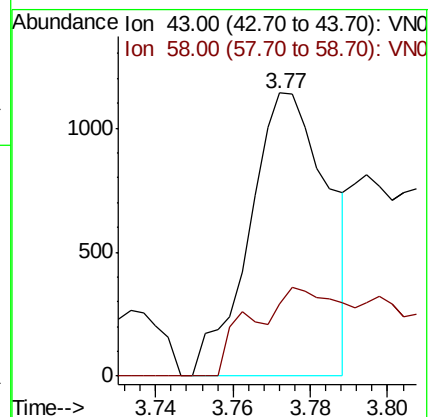
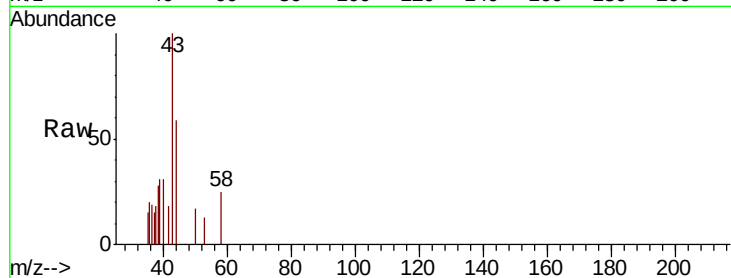
MW-16

Tot Ion: 43 Resp: 1612

Ion Ratio Lower Upper

43 100

58 25.4 25.2 37.8



#19

Methyl tert-butyl Ether

Concen: 1.346 ug/l

RT: 4.99 min Scan# 1010

Delta R.T. -0.00 min

Lab File: VN064156.D

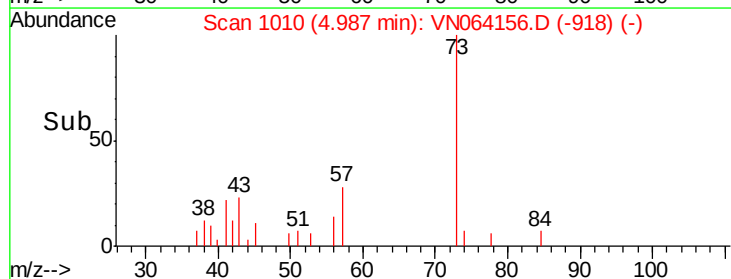
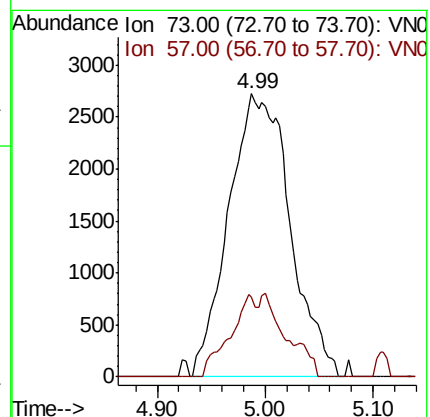
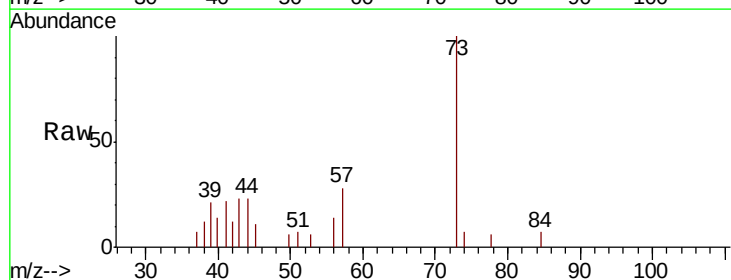
Acq: 15 Oct 2020 20:19

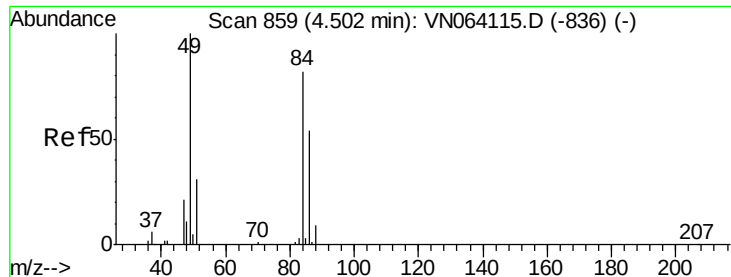
Tgt Ion: 73 Resp: 10790

Ion Ratio Lower Upper

73 100

57 28.3 17.0 25.4#

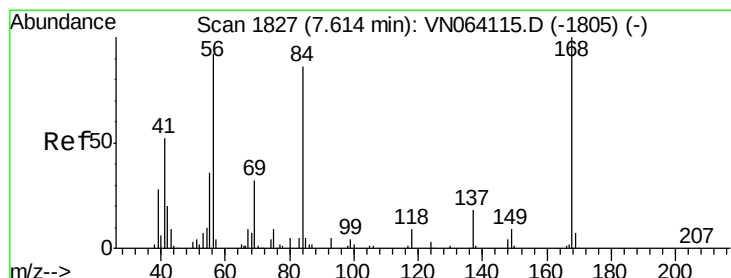
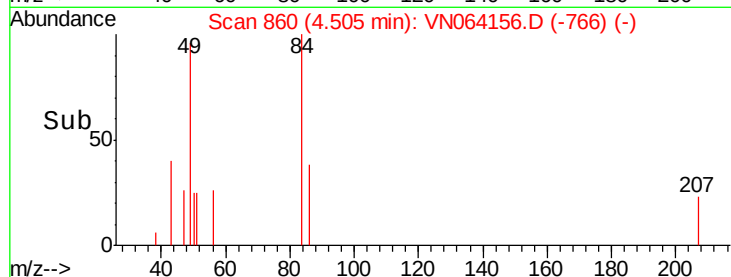
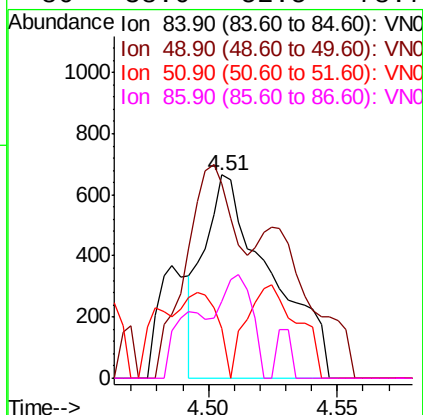
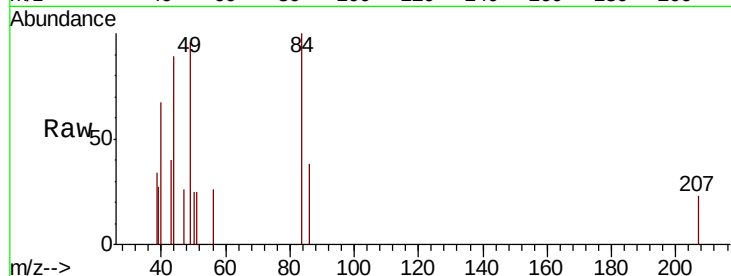




#20
Methvlene Chloride
Concen: 0.333 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

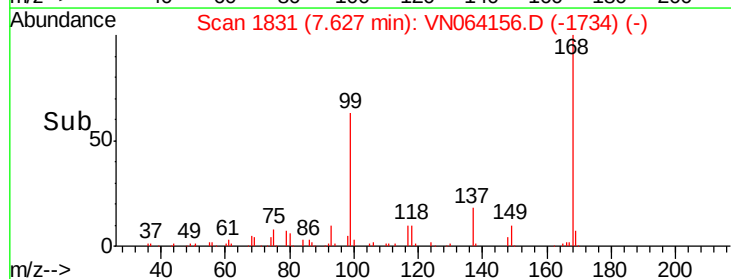
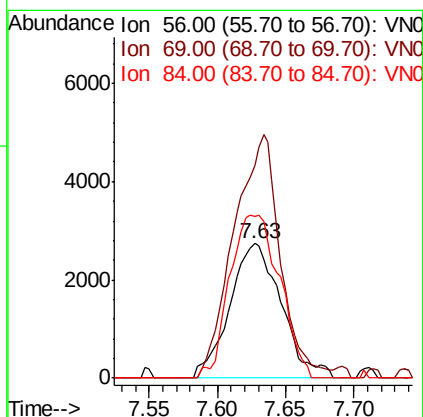
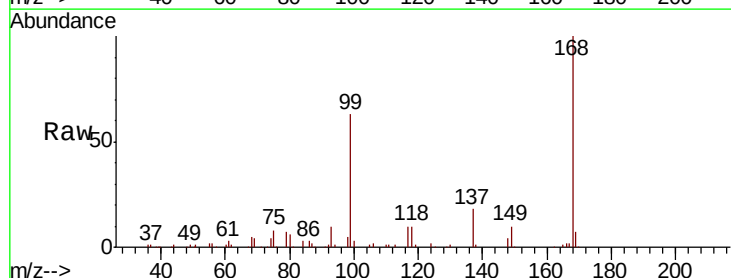
Instrument :
MSVOA_N
ClientSampled :
MW-16

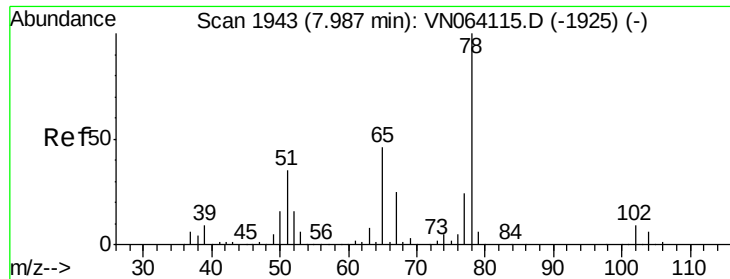
Tot Ion: 84 Resp: 1188
Ion Ratio Lower Upper
84 100
49 67.5 97.4 146.0#
51 24.7 29.7 44.5#
86 38.0 52.5 78.7#



#31
Cyclohexane
Concen: 1.675 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

Tgt Ion: 56 Resp: 7197
Ion Ratio Lower Upper
56 100
69 158.4 27.8 41.6#
84 119.8 73.2 109.8#

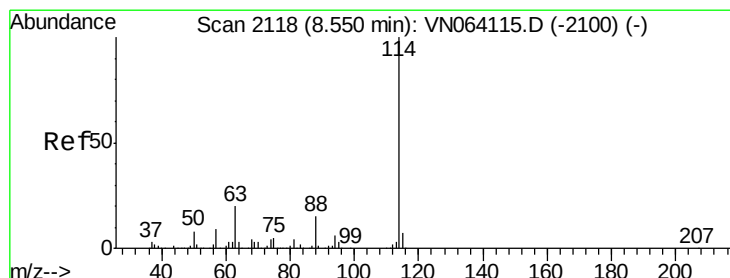
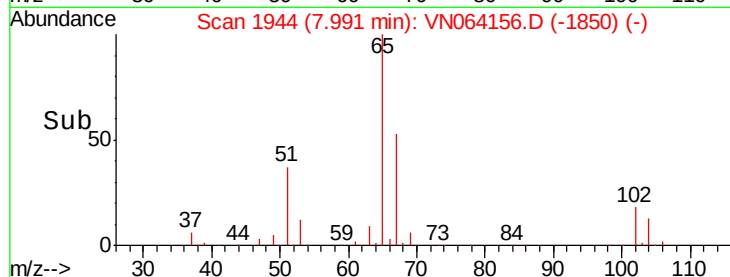
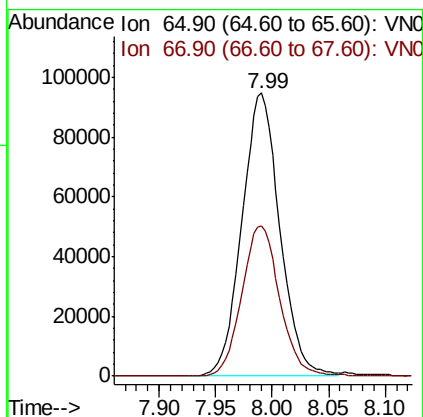
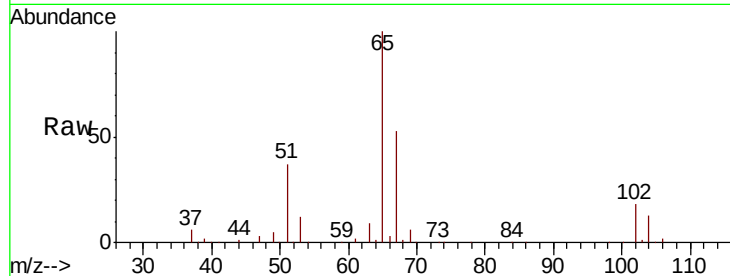




#33
 1,2-Dichloroethane-d4
 Concen: 56.851 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064156.D
 Acq: 15 Oct 2020 20:19

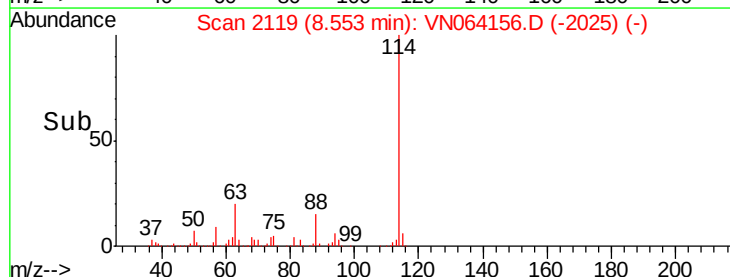
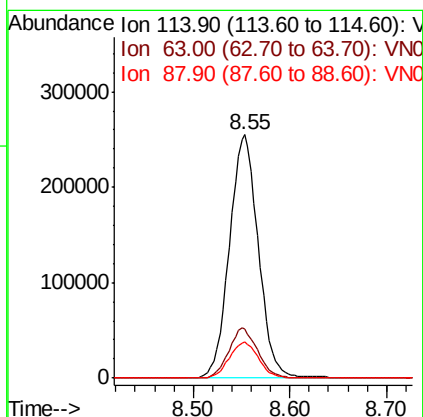
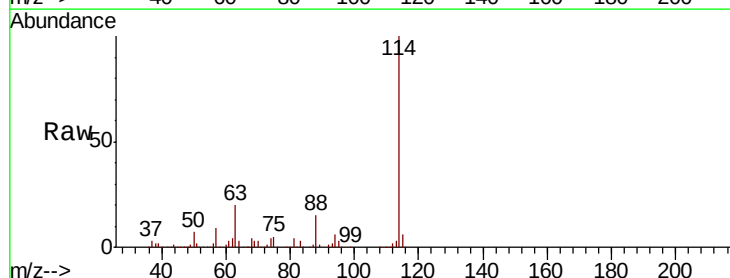
Instrument :
 MSVOA_N
 ClientSampled :
 MW-16

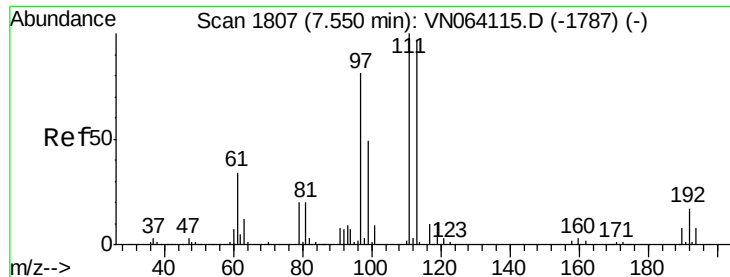
Tot Ion: 65 Resp: 220956
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064156.D
 Acq: 15 Oct 2020 20:19

Tgt Ion: 114 Resp: 527690
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.0
 88 14.7 0.0 29.2

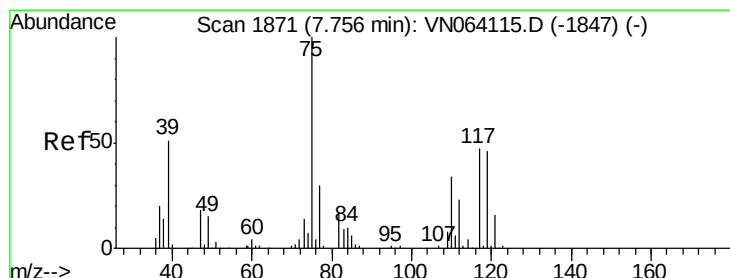
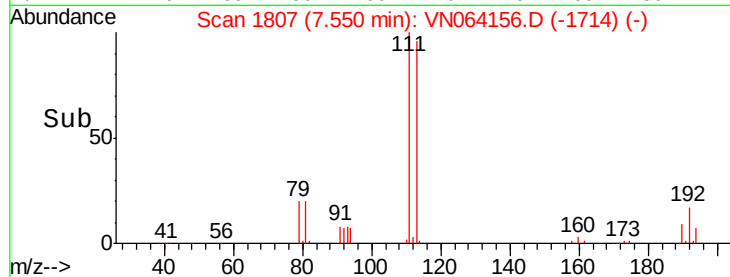
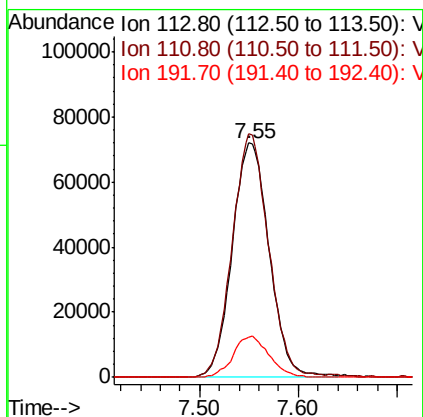
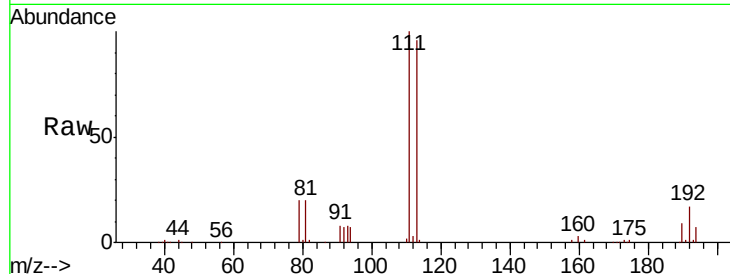




#35
 Dibromofluoromethane
 Concen: 51.400 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064156.D
 Acq: 15 Oct 2020 20:19

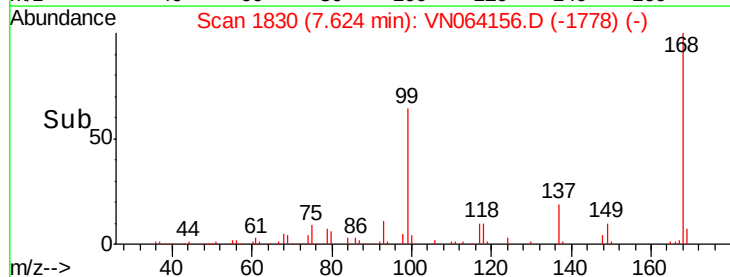
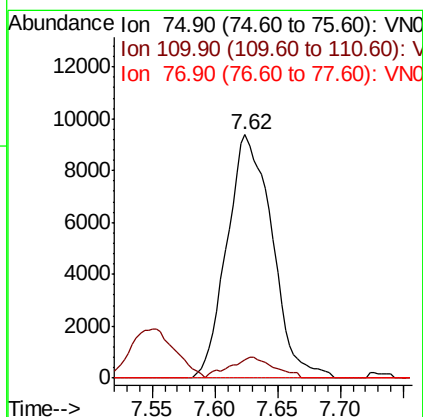
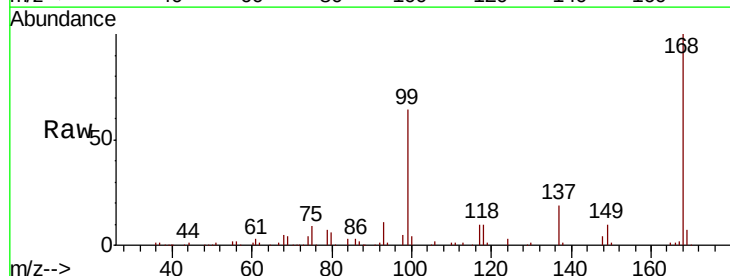
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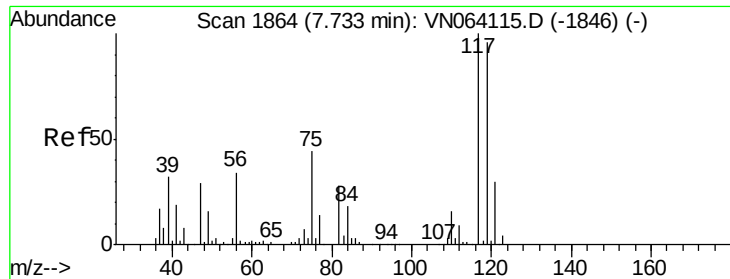
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.9	122.9
192	17.0	14.3	21.5



#36
 1,1-Dichloropropene
 Concen: 4.607 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064156.D
 Acq: 15 Oct 2020 20:19

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.8	53.3#
77	0.0	24.9	37.3#

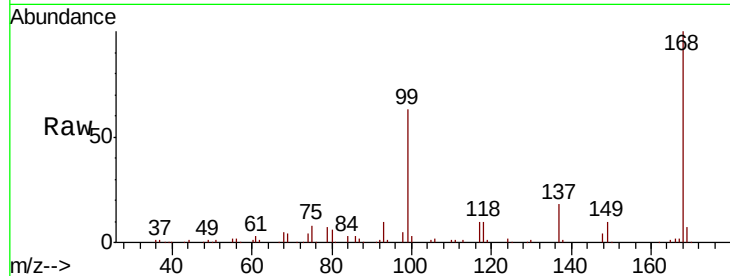




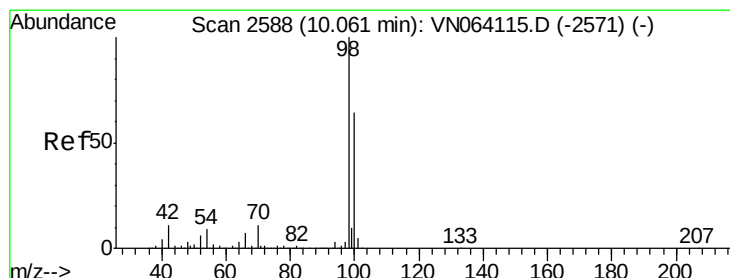
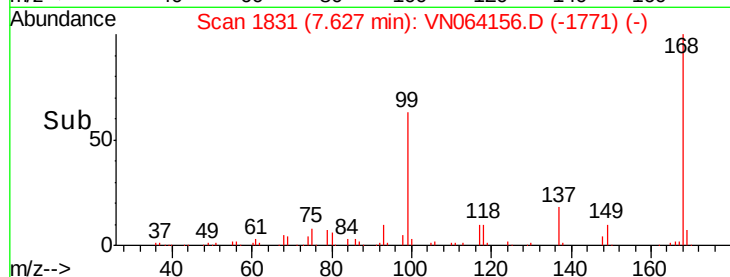
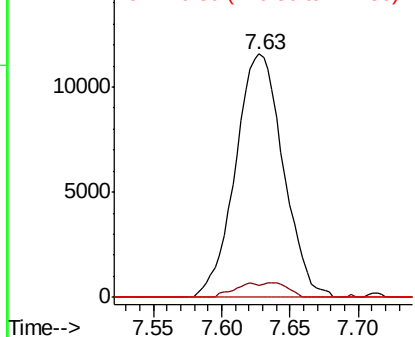
#38
Carbon Tetrachloride
Concen: 5.142 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

Instrument :
MSVOA_N
ClientSampleId :
MW-16

Tot Ion:117 Resp: 28122
Ion Ratio Lower Upper
117 100
119 5.0 77.0 115.4#
121 0.0 24.2 36.4#

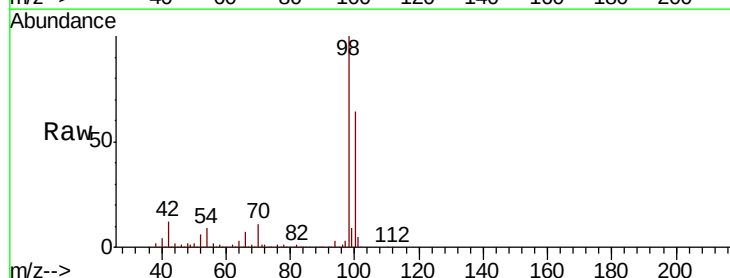


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

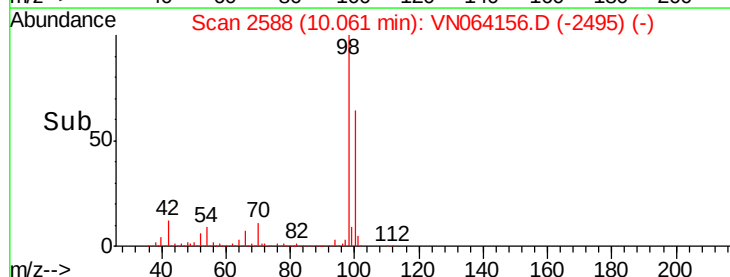
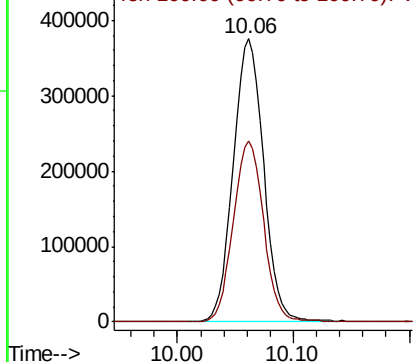


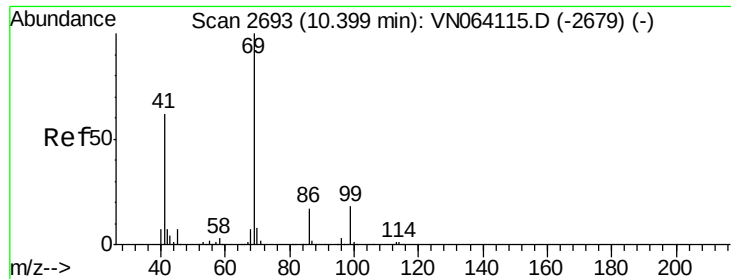
#50
Toluene-d8
Concen: 49.612 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

Tgt Ion: 98 Resp: 683704
Ion Ratio Lower Upper
98 100
100 63.8 50.8 76.2



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





#56

Ethyl methacrylate

Concen: 2.304 ug/l

RT: 10.65 min Scan# 2772

Delta R.T. 0.25 min

Lab File: VN064156.D

Acq: 15 Oct 2020 20:19

Instrument :

MSVOA_N

ClientSampled :

MW-16

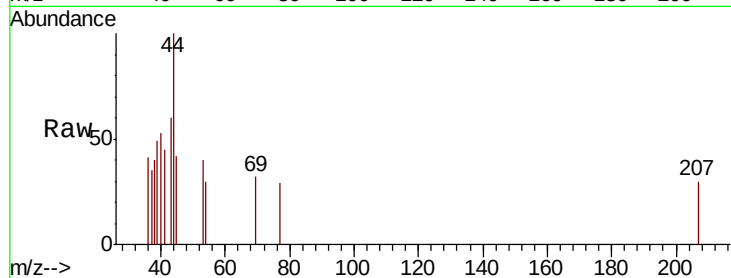
Tot Ion: 69 Resp: 33

Ion Ratio Lower Upper

69 100

41 618.2 49.3 73.9#

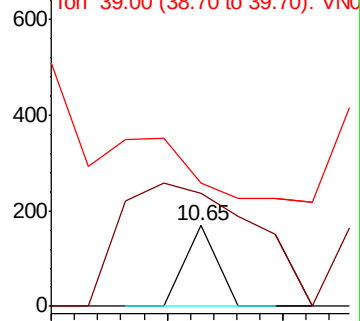
39 0.0 32.7 49.1#



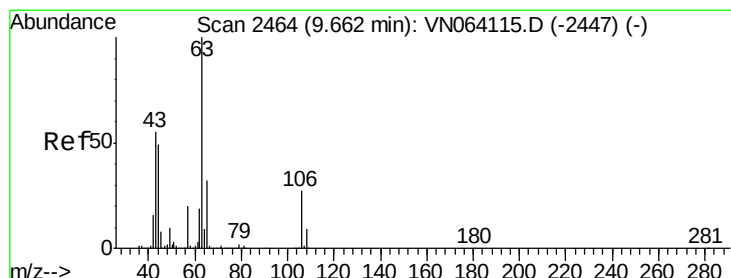
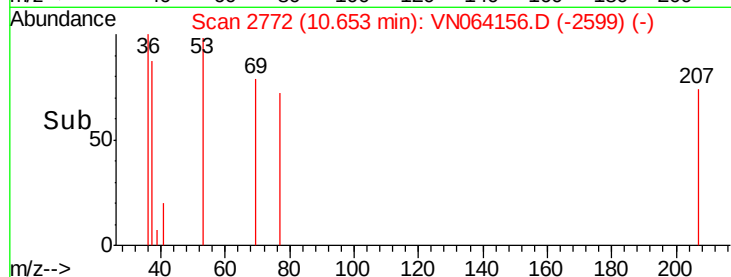
Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



Time--> 10.64 10.65 10.66



#58

2-Chloroethyl Vinyl ether

Concen: 12.242 ug/l

RT: 9.78 min Scan# 2502

Delta R.T. 0.12 min

Lab File: VN064156.D

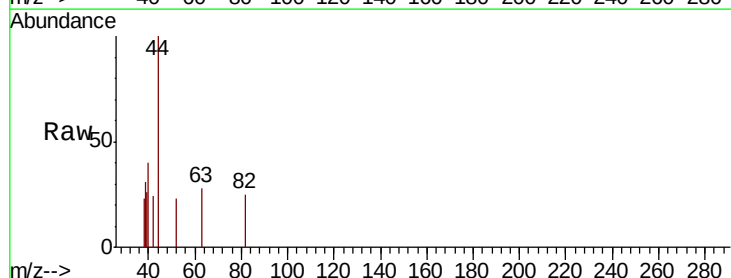
Acq: 15 Oct 2020 20:19

Tgt Ion: 63 Resp: 69

Ion Ratio Lower Upper

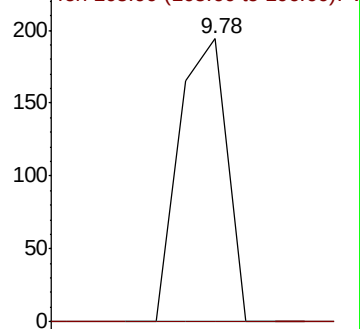
63 100

106 0.0 21.8 32.6#

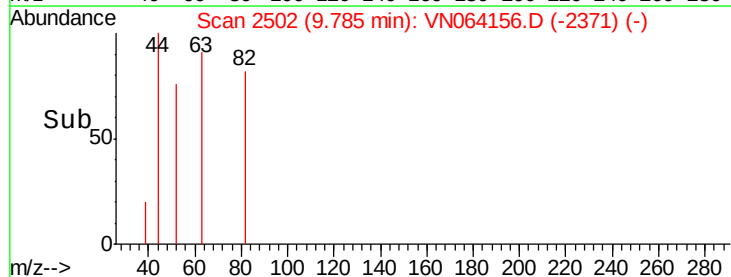


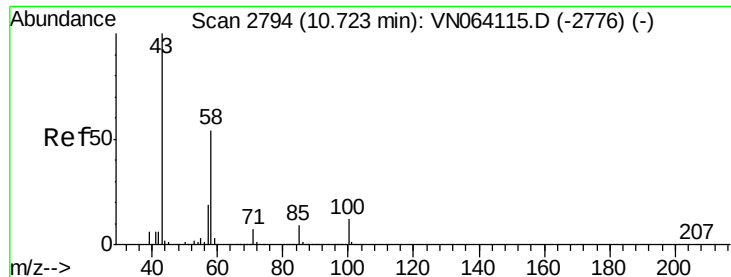
Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V



Time--> 9.77 9.78 9.79

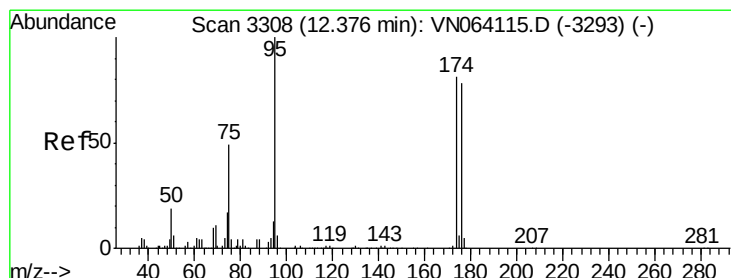
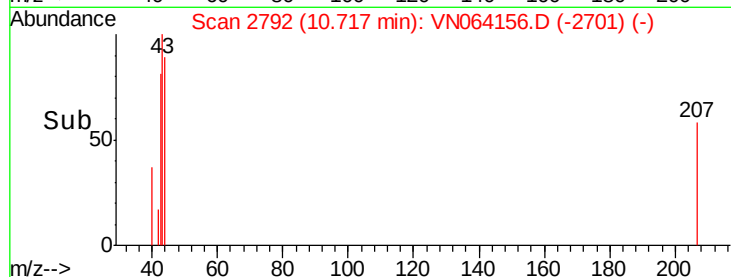
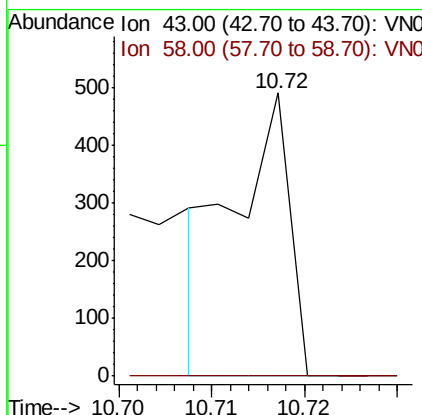
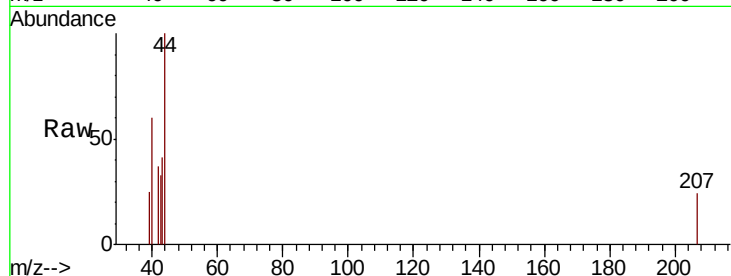




#59
2-Hexanone
Concen: 6.896 ug/l
RT: 10.72 min Scan# 2792
Delta R.T. -0.01 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

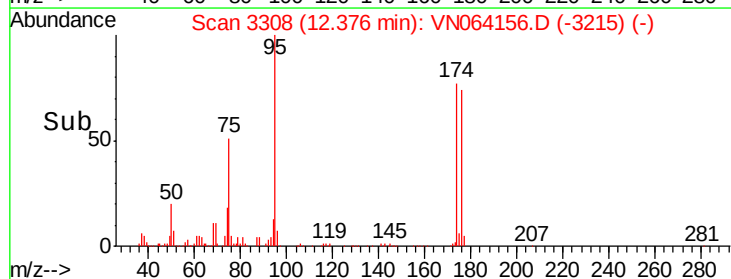
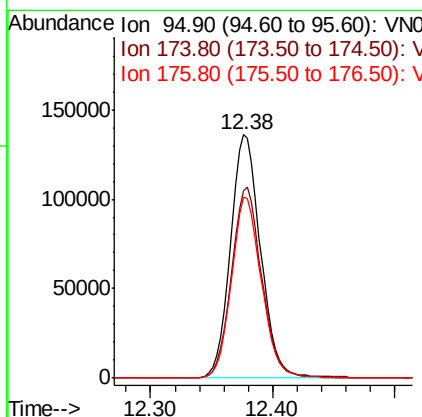
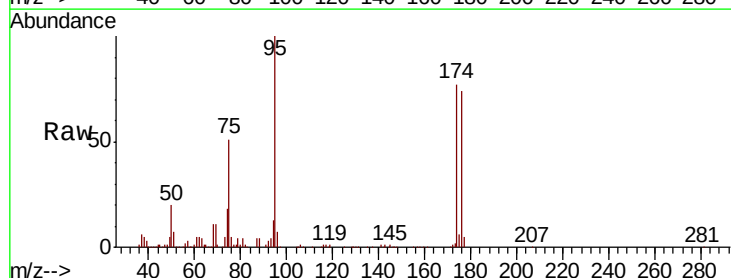
Instrument :
MSVOA_N
ClientSampled :
MW-16

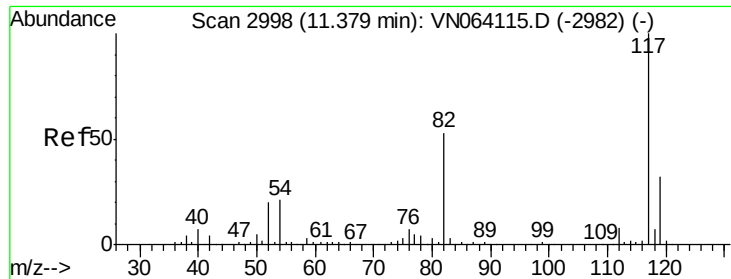
Tot Ion: 43 Resp: 205
Ion Ratio Lower Upper
43 100
58 0.0 27.2 81.6#



#62
4-Bromofluorobenzene
Concen: 49.281 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

Tgt Ion: 95 Resp: 233441
Ion Ratio Lower Upper
95 100
174 79.4 0.0 164.8
176 74.0 0.0 157.8

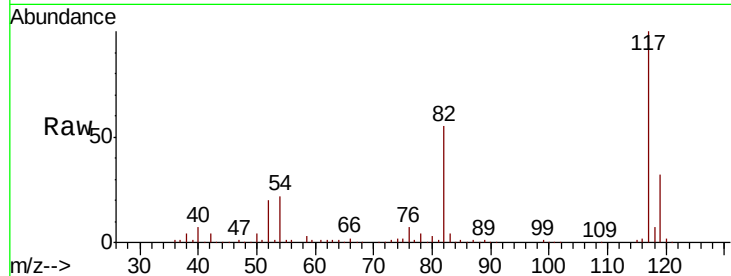




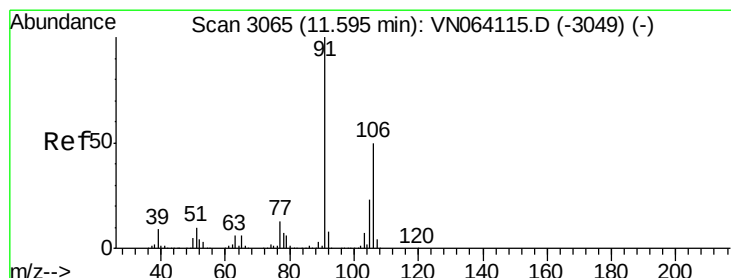
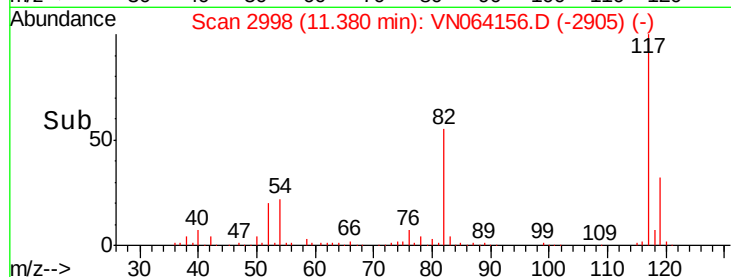
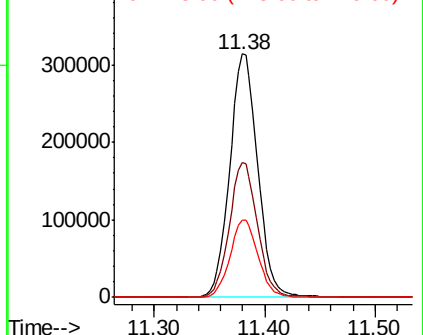
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

Instrument :
MSVOA_N
ClientSampled :
MW-16

Tot Ion:117 Resp: 553136
Ion Ratio Lower Upper
117 100
82 55.4 42.6 63.8
119 31.8 25.5 38.3

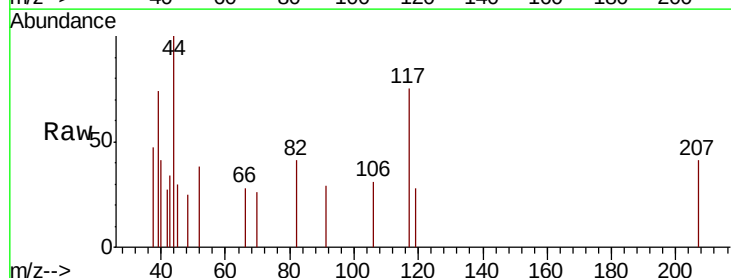


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

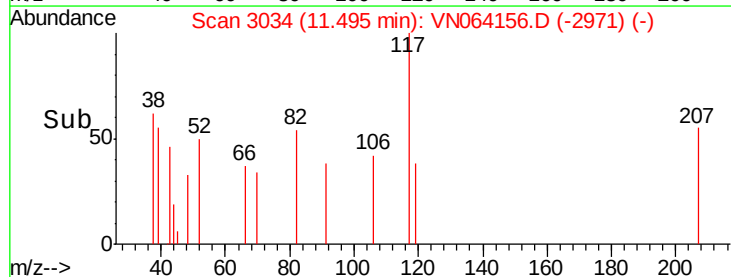
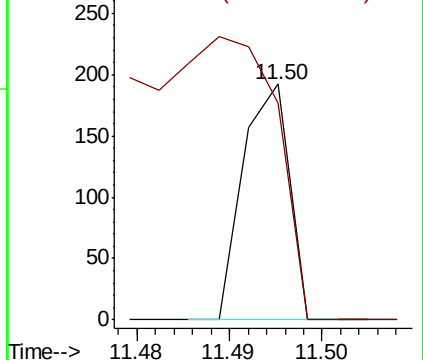


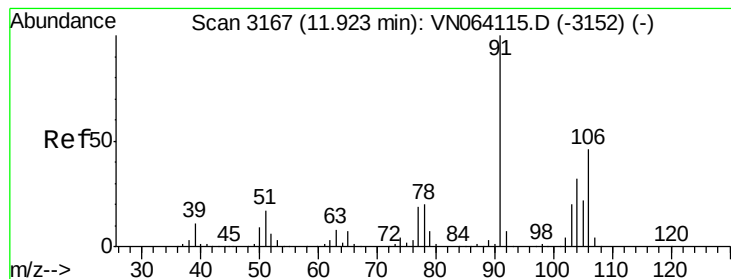
#68
m/p-Xylenes
Concen: 2.200 ug/l
RT: 11.50 min Scan# 3034
Delta R.T. -0.10 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

Tgt Ion:106 Resp: 67
Ion Ratio Lower Upper
106 100
91 397.0 162.1 243.1#



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#69

o-Xylene

Concen: 1.587 ug/l

RT: 11.95 min Scan# 3176

Delta R.T. 0.03 min

Lab File: VN064156.D

Acq: 15 Oct 2020 20:19

Instrument :

MSVOA_N

ClientSampled :

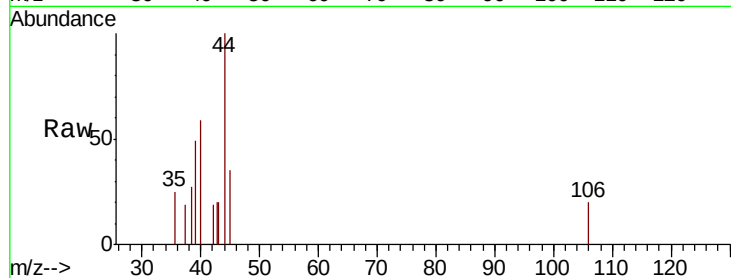
MW-16

Tot Ion:106 Resp: 32

Ion Ratio Lower Upper

106 100

91 0.0 107.6 322.8#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN

11.95

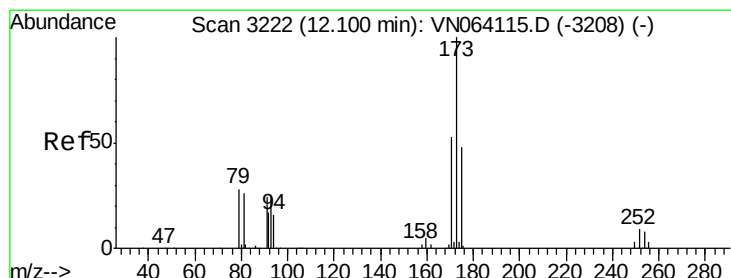
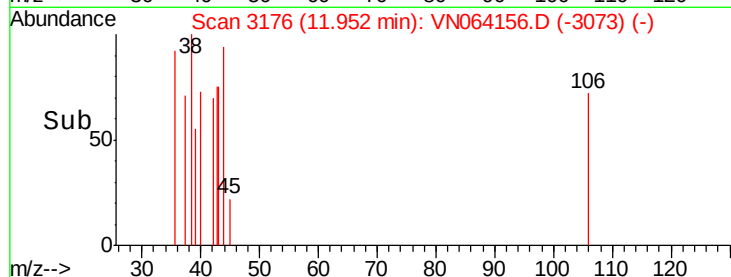
150

100

50

0

Time--> 11.94 11.95 11.96



#71

Bromoform

Concen: 2.886 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN064156.D

Acq: 15 Oct 2020 20:19

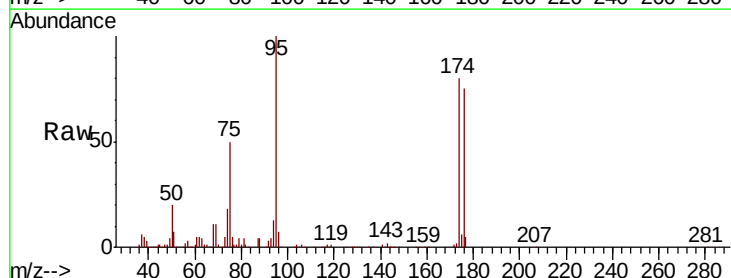
Tgt Ion:173 Resp: 2511

Ion Ratio Lower Upper

173 100

175 440.7 23.4 70.2#

254 0.0 0.1 0.1#



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

10000

8000

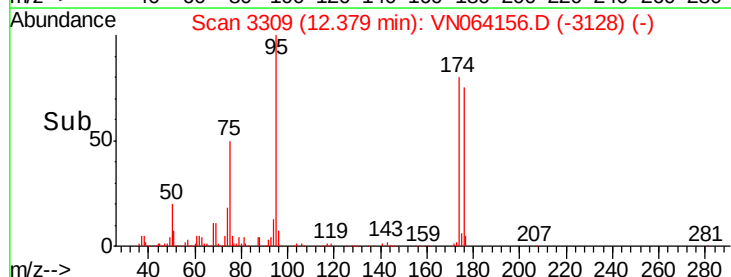
6000

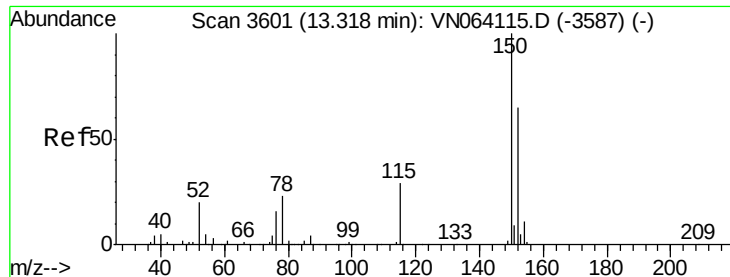
4000

2000

0

Time--> 12.34 12.36 12.38



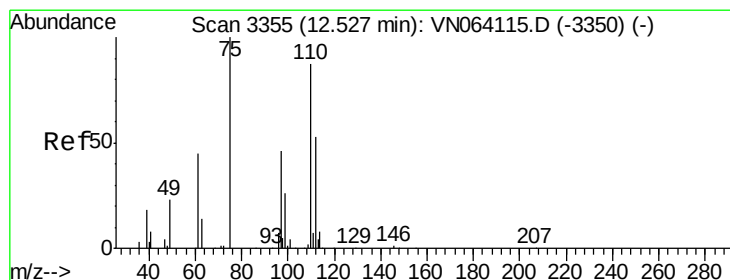
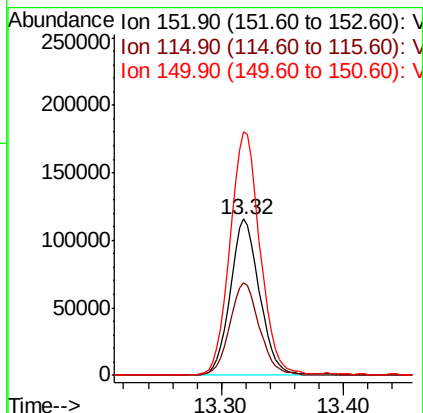
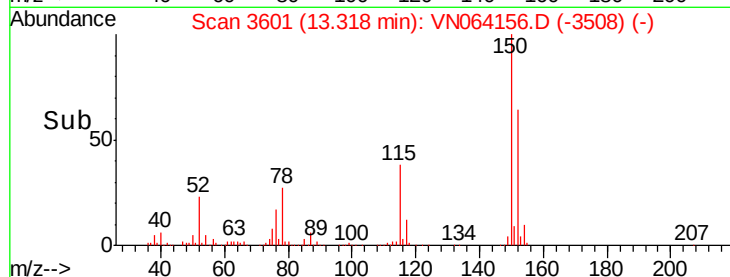
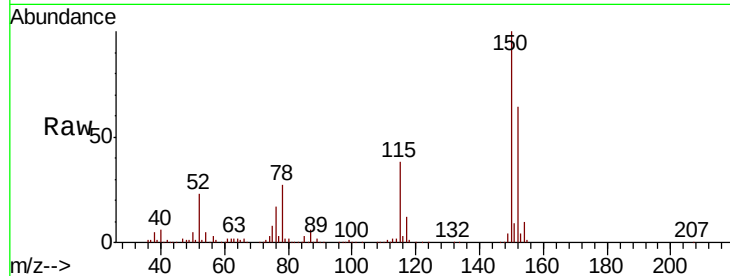


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

Instrument :
MSVOA_N
ClientSampled :
MW-16

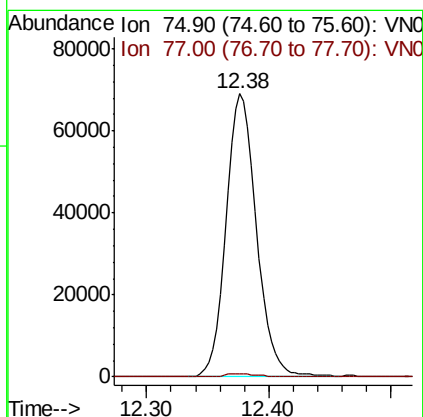
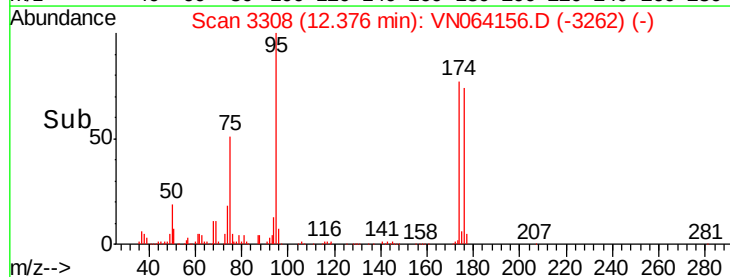
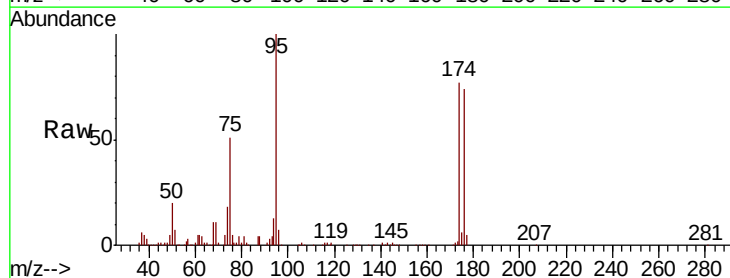
Tot Ion	Ratio	Lower	Upper
152	100		
115	59.8	29.3	87.8
150	158.9	0.0	346.0

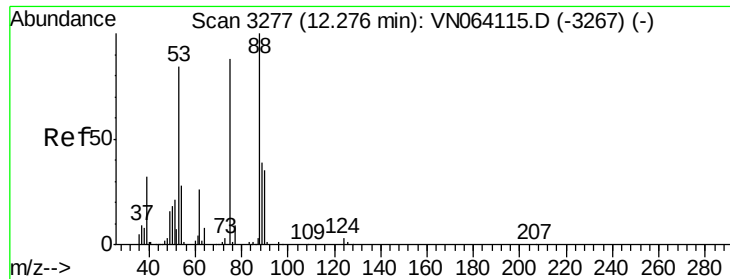


#76

1,2,3-Trichloropropane
Concen: 26.399 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#

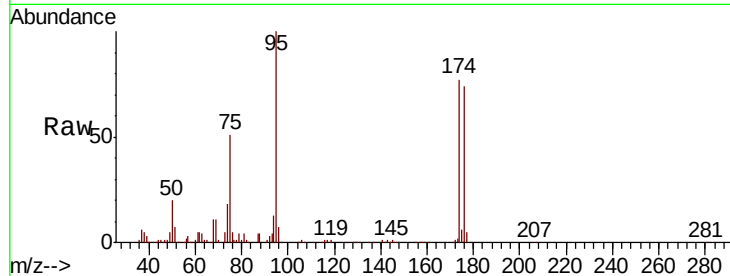




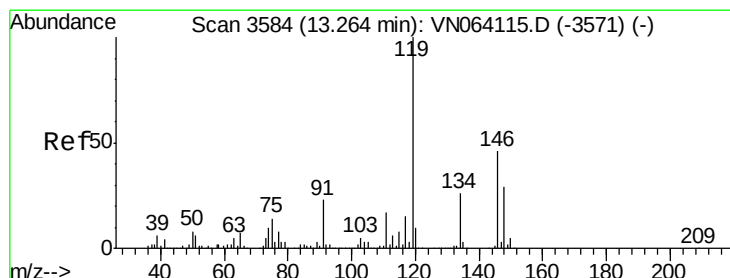
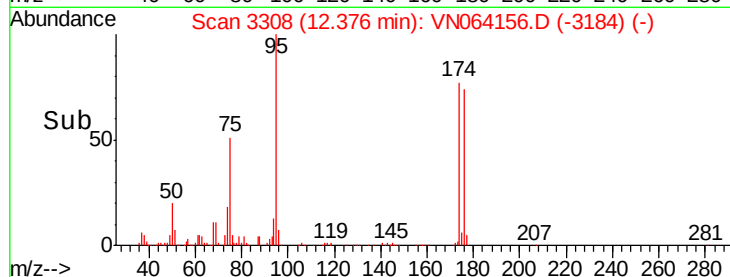
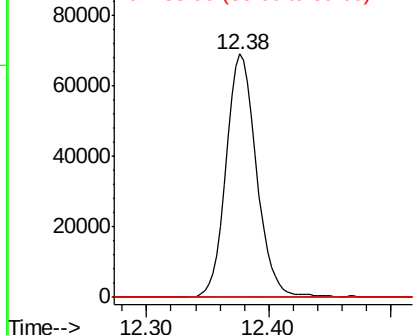
#81
 trans-1,4-Dichloro-2-butene
 Concen: 80.653 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064156.D
 Acq: 15 Oct 2020 20:19

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-16

Tot Ion: 75 Resp: 120509
 Ion Ratio Lower Upper
 75 100
 53 0.2 75.7 113.5#
 89 0.0 36.6 55.0#

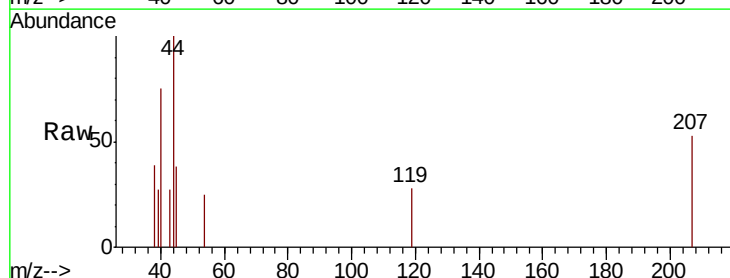


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 53.00 (52.70 to 53.70): VN0
 Ion 88.90 (88.60 to 89.60): VN0

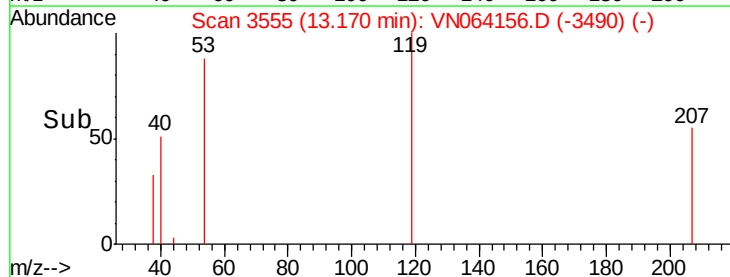
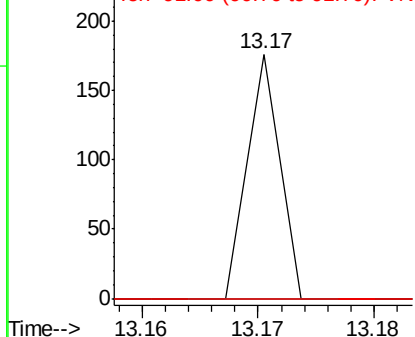


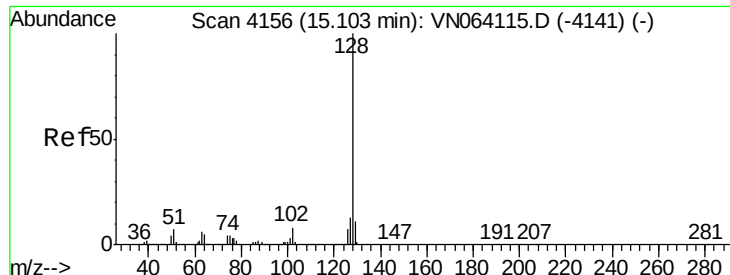
#86
 p-Isopropyltoluene
 Concen: 0.665 ug/l
 RT: 13.17 min Scan# 3555
 Delta R.T. -0.09 min
 Lab File: VN064156.D
 Acq: 15 Oct 2020 20:19

Tgt Ion: 119 Resp: 34
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.2 39.5#
 91 0.0 12.0 36.1#



Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): VN0

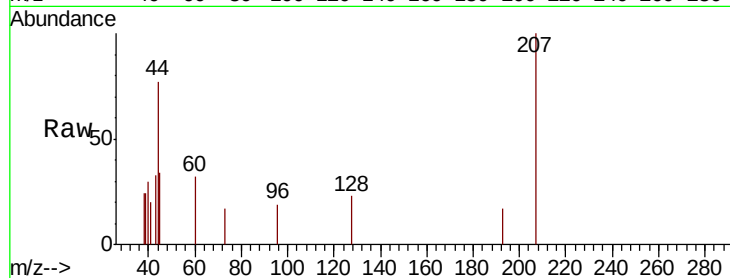




#95
Naphthalene
Concen: 3.805 ug/l
RT: 14.83 min Scan# 4070
Delta R.T. -0.28 min
Lab File: VN064156.D
Acq: 15 Oct 2020 20:19

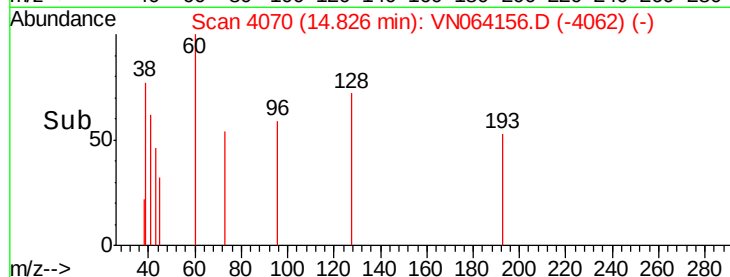
Instrument :
MSVOA_N
ClientSampleId :
MW-16

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.5	12.7#



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

14.83



Time--> 14.81 14.82 14.83