

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN063020\
 Data File : VN062254.D
 Acq On : 30 Jun 2020 21:04
 Operator : JC/MD
 Sample : L3170-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2R

Quant Time: Jul 01 03:39:12 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	187039	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	382139	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	362200	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	128878	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	148301	56.50	ug/l	0.00
Spiked Amount			Recovery	=	113.00%	
35) Dibromofluoromethane	7.55	113	120406	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
50) Toluene-d8	10.06	98	491505	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
62) 4-Bromofluorobenzene	12.38	95	152148	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	

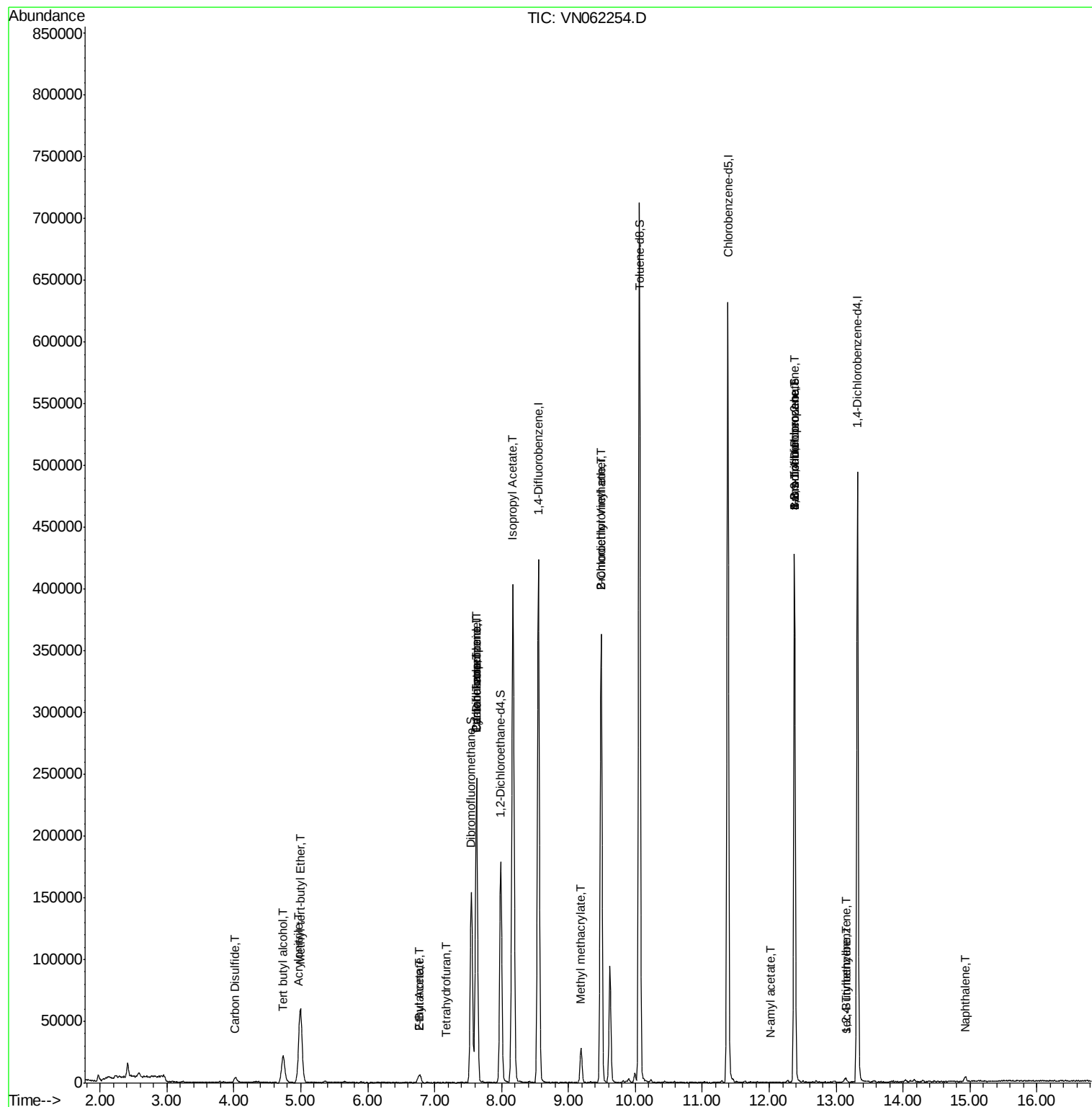
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	318	Below Cal	#	41
11) Tert butyl alcohol	4.73	59	38774	102.887	ug/l #	91
15) Acrylonitrile	4.96	53	234	0.228	ug/l #	17
16) Acetone	3.76	43	291	Below Cal	#	40
17) Carbon Disulfide	4.01	76	1597	0.310	ug/l #	75
19) Methyl tert-butyl Ether	5.00	73	100996	14.717	ug/l	98
20) Methylene Chloride	4.52	84	62	Below Cal	#	9
25) 2-Butanone	6.77	43	1503	1.172	ug/l #	44
29) Tetrahydrofuran	7.17	42	191	0.227	ug/l #	28
31) Cyclohexane	7.62	56	4680	1.291	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	17100	4.452	ug/l #	47
37) Ethyl Acetate	6.77	43	1503	0.473	ug/l #	66
38) Carbon Tetrachloride	7.62	117	19576	5.406	ug/l #	16
43) Isopropyl Acetate	8.17	43	77291	14.907	ug/l #	62
47) Bromodichloromethane	9.49	83	3309	0.837	ug/l #	26
48) Methyl methacrylate	9.18	41	7416	3.190	ug/l #	28
58) 2-Chloroethyl Vinyl ether	9.49	63	591	16.449	ug/l #	46
71) Bromoform	12.38	173	1362	0.696	ug/l #	1
74) N-amyl acetate	12.01	43	68	3.360	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	78264	25.797	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	78264	75.336	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.15	105	2254	0.279	ug/l #	30
85) sec-Butylbenzene	13.15	105	2254	0.246	ug/l	90
95) Naphthalene	14.94	128	430	4.059	ug/l #	1

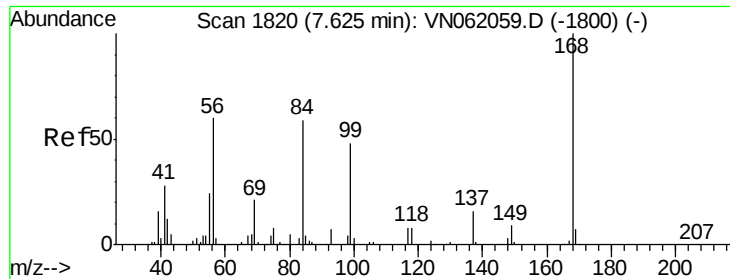
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN063020\
Data File : VN062254.D
Acq On : 30 Jun 2020 21:04
Operator : JC/MD
Sample : L3170-02
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-2R

Quant Time: Jul 01 03:39:12 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: VN062254.D

Acq: 30 Jun 2020 21:04

Instrument :

MSVOA_N

ClientSampled :

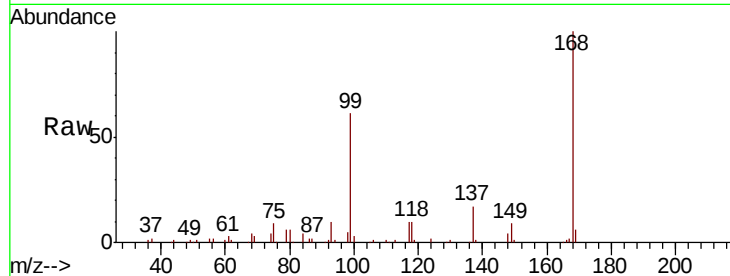
MW-2R

Tot Ion:168 Resp: 187039

Ion Ratio Lower Upper

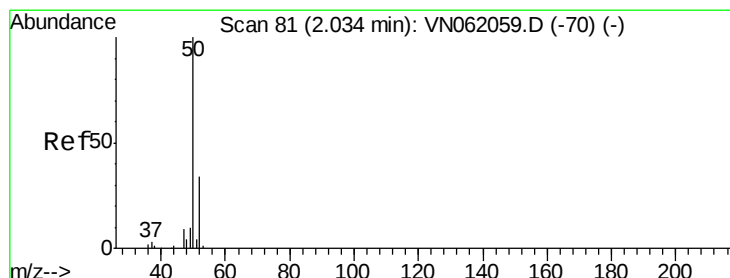
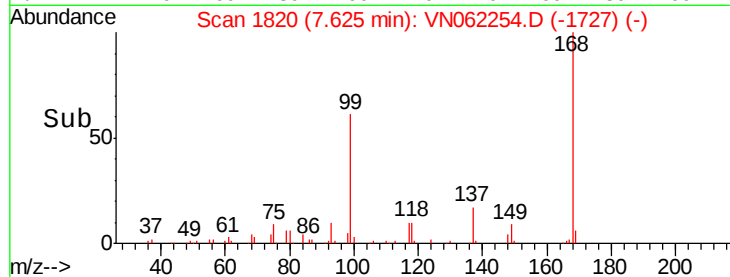
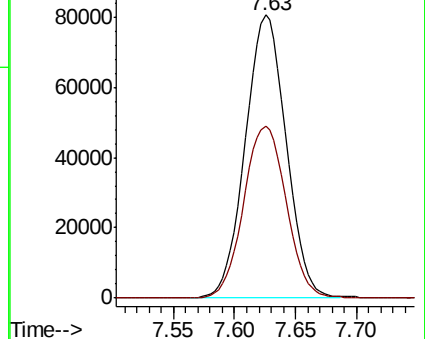
168 100

99 60.6 45.8 68.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN062254.D

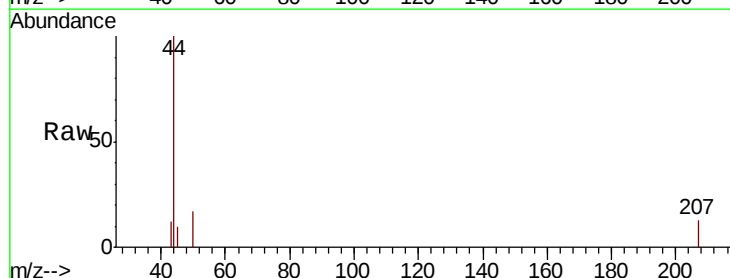
Acq: 30 Jun 2020 21:04

Tgt Ion: 50 Resp: 318

Ion Ratio Lower Upper

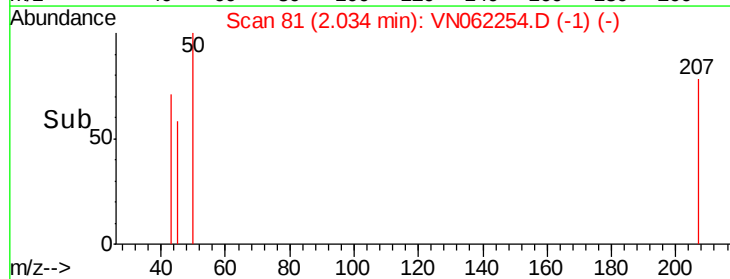
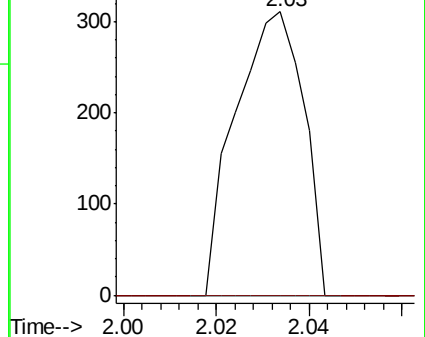
50 100

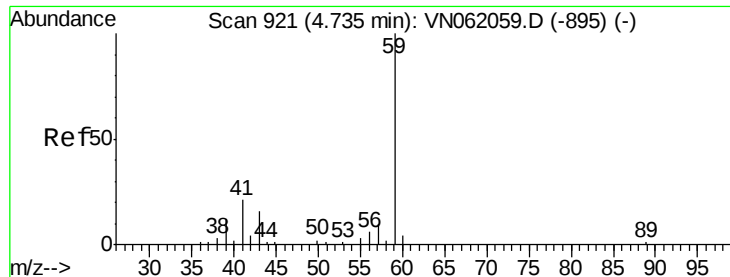
52 0.0 27.0 40.6#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



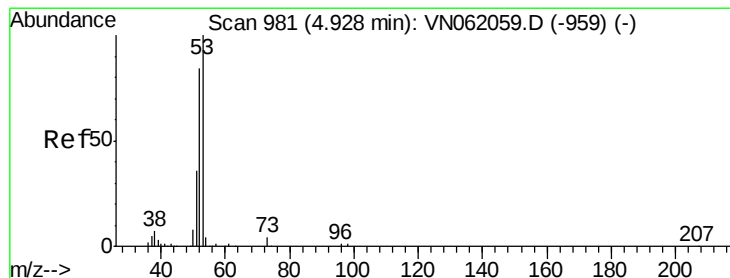
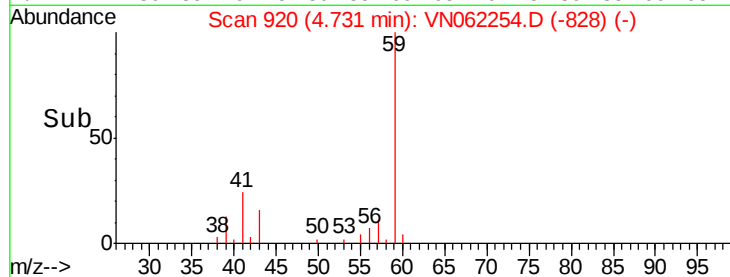
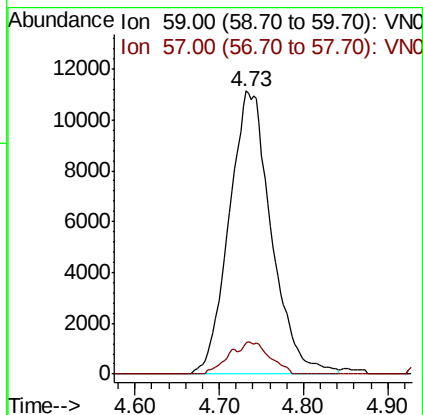
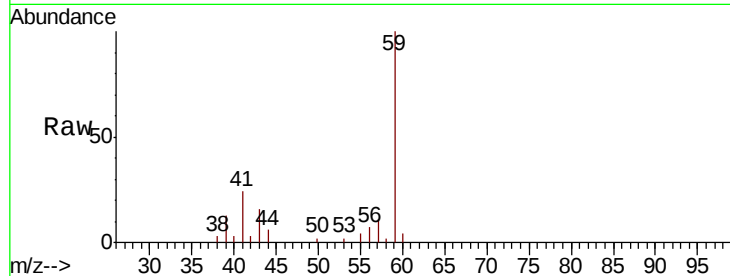


#11

Tert butyl alcohol
 Concen: 102.887 ug/l
 RT: 4.73 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VN062254.D
 Acq: 30 Jun 2020 21:04

Instrument :
 MSVOA_N
 ClientSampled :
 MW-2R

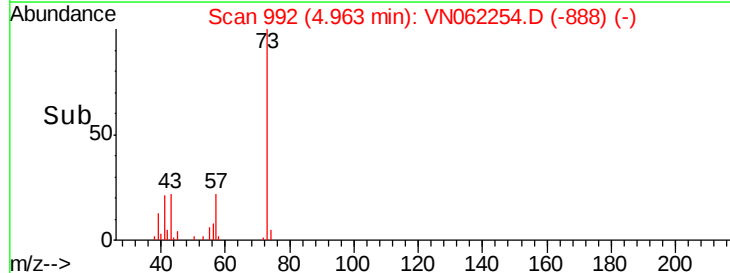
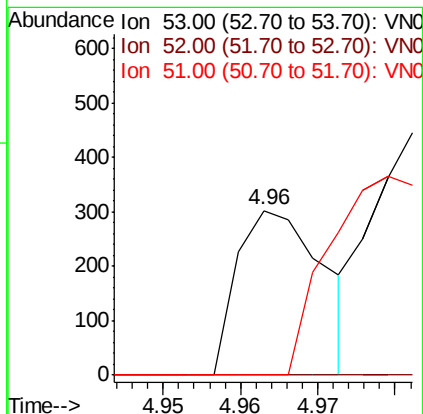
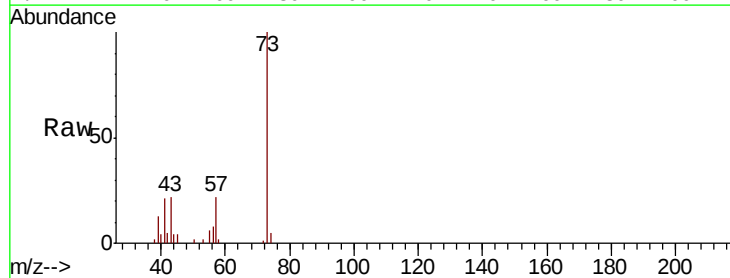
Tot Ion: 59 Resp: 38774
 Ion Ratio Lower Upper
 59 100
 57 7.1 8.3 12.5#

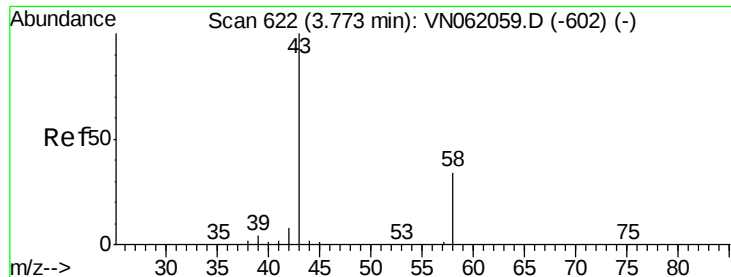


#15

Acrylonitrile
 Concen: 0.228 ug/l
 RT: 4.96 min Scan# 992
 Delta R.T. 0.04 min
 Lab File: VN062254.D
 Acq: 30 Jun 2020 21:04

Tgt Ion: 53 Resp: 234
 Ion Ratio Lower Upper
 53 100
 52 0.0 66.2 99.4#
 51 0.0 28.9 43.3#





#16

Acetone

Concen: Below Cal

RT: 3.76 min Scan# 619

Delta R.T. -0.01 min

Lab File: VN062254.D

Acq: 30 Jun 2020 21:04

Instrument :

MSVOA_N

ClientSampled :

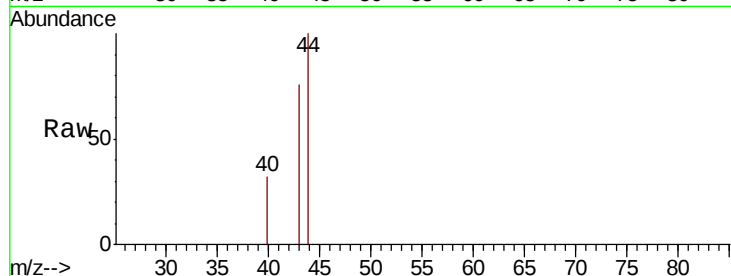
MW-2R

Tot Ion: 43 Resp: 291

Ion Ratio Lower Upper

43 100

58 0.0 27.5 41.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.76

3.77

3.78

3.79

3.80

3.81

3.82

3.83

3.84

3.85

3.86

3.87

3.88

3.89

3.90

3.91

3.92

3.93

3.94

3.95

3.96

3.97

3.98

3.99

4.00

4.01

4.02

4.03

4.04

4.05

4.06

4.07

4.08

4.09

4.10

4.11

4.12

4.13

4.14

4.15

4.16

4.17

4.18

4.19

4.20

4.21

4.22

4.23

4.24

4.25

4.26

4.27

4.28

4.29

4.30

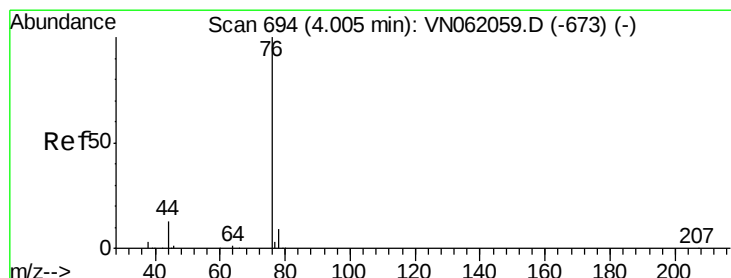
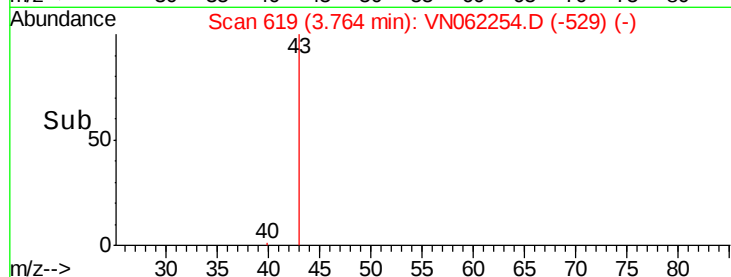
4.31

4.32

4.33

4.34

4.35



#17

Carbon Disulfide

Concen: 0.310 ug/l

RT: 4.01 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN062254.D

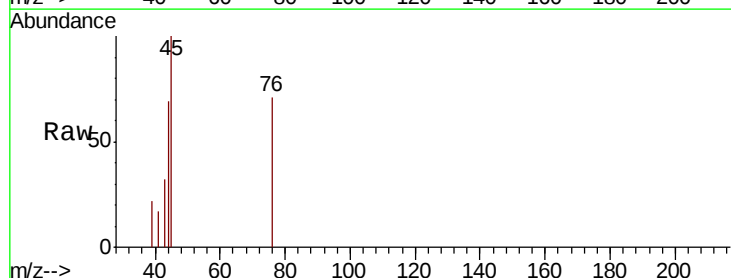
Acq: 30 Jun 2020 21:04

Tgt Ion: 76 Resp: 1597

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.01

4.02

4.03

4.04

4.05

4.06

4.07

4.08

4.09

4.10

4.11

4.12

4.13

4.14

4.15

4.16

4.17

4.18

4.19

4.20

4.21

4.22

4.23

4.24

4.25

4.26

4.27

4.28

4.29

4.30

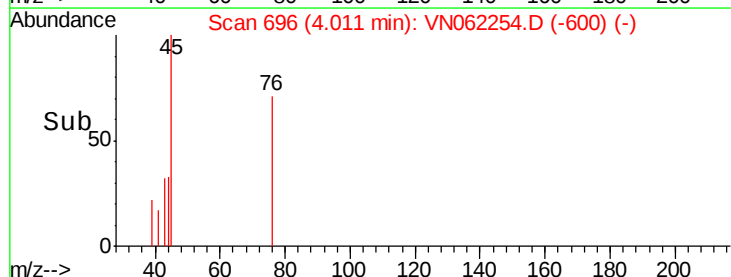
4.31

4.32

4.33

4.34

4.35



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.01

4.02

4.03

4.04

4.05

4.06

4.07

4.08

4.09

4.10

4.11

4.12

4.13

4.14

4.15

4.16

4.17

4.18

4.19

4.20

4.21

4.22

4.23

4.24

4.25

4.26

4.27

4.28

4.29

4.30

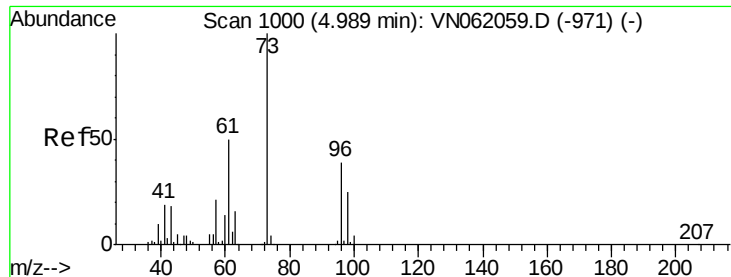
4.31

4.32

4.33

4.34

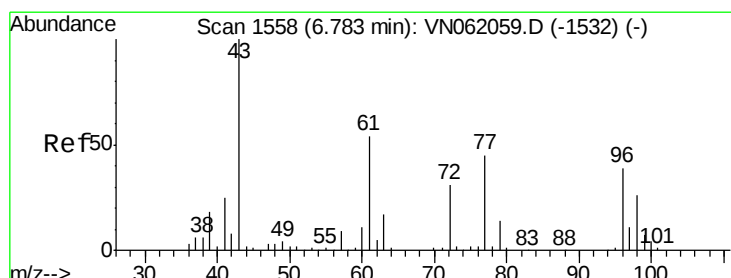
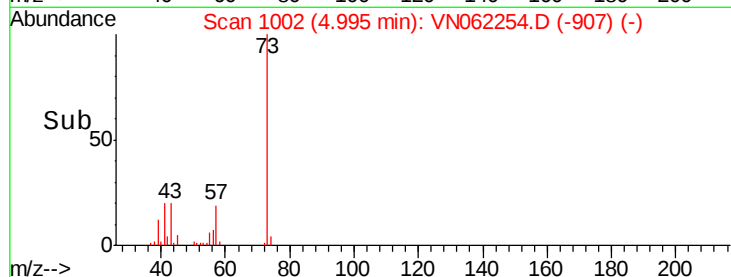
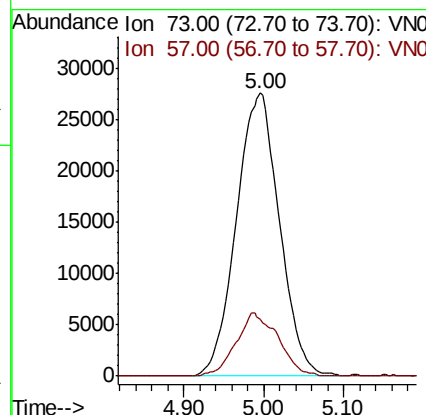
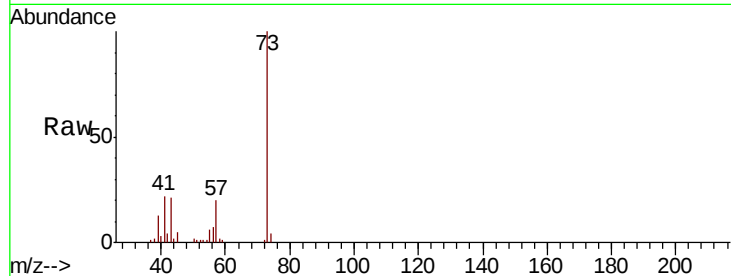
4.35



#19
Methvl tert-butvl Ether
Concen: 14.717 ug/l
RT: 5.00 min Scan# 1002
Delta R.T. 0.01 min
Lab File: VN062254.D
Acq: 30 Jun 2020 21:04

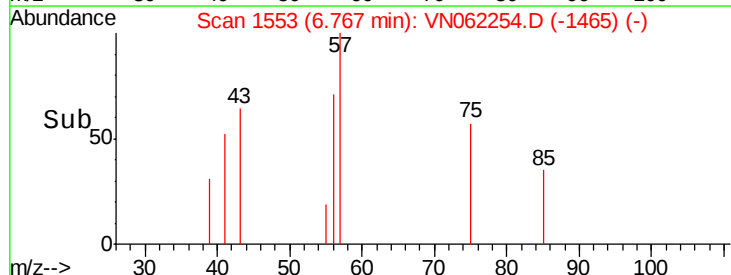
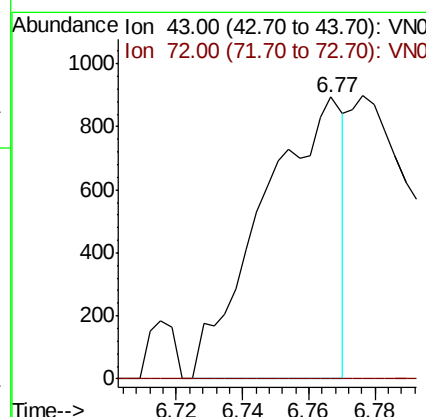
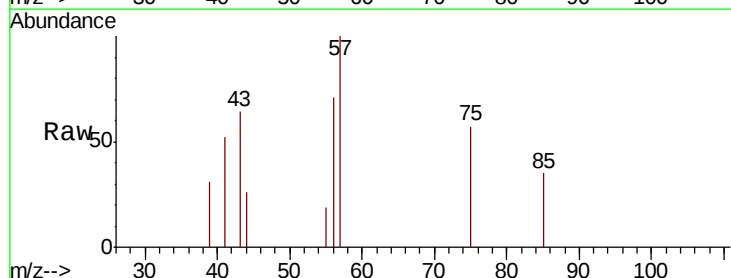
Instrument :
MSVOA_N
ClientSampled :
MW-2R

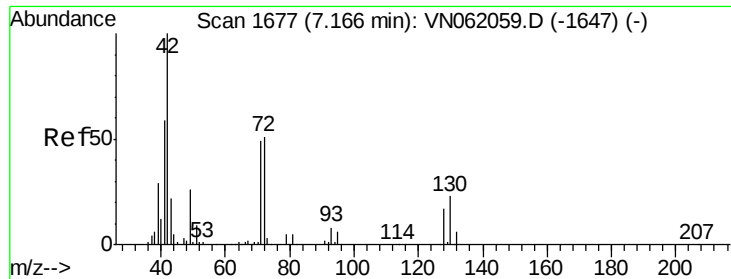
Tot Ion: 73 Resp: 100996
Ion Ratio Lower Upper
73 100
57 19.9 16.6 24.8



#25
2-Butanone
Concen: 1.172 ug/l
RT: 6.77 min Scan# 1553
Delta R.T. -0.02 min
Lab File: VN062254.D
Acq: 30 Jun 2020 21:04

Tgt Ion: 43 Resp: 1503
Ion Ratio Lower Upper
43 100
72 0.0 24.8 37.2#





#29

Tetrahydrofuran

Concen: 0.227 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN062254.D

Acq: 30 Jun 2020 21:04

Instrument :

MSVOA_N

ClientSampleId :

MW-2R

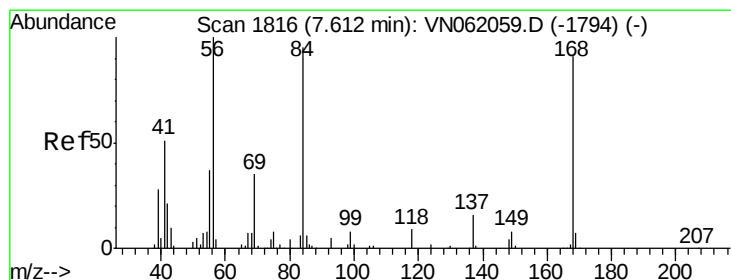
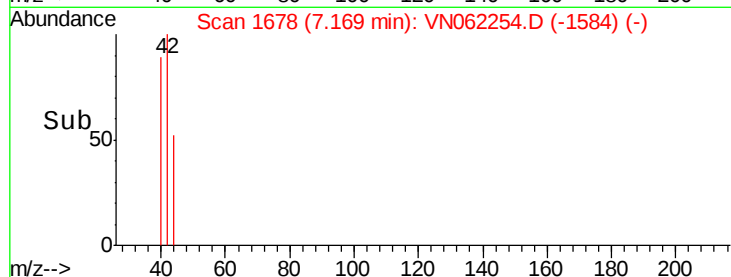
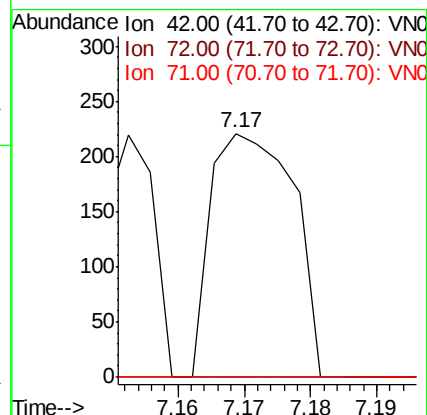
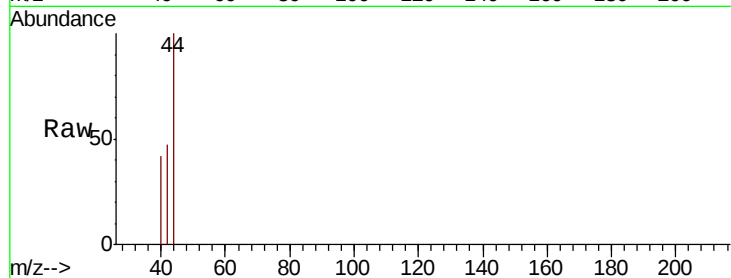
Tot Ion: 42 Resp: 191

Ion Ratio Lower Upper

42 100

72 0.0 41.1 61.7#

71 0.0 38.2 57.4#



#31

Cyclohexane

Concen: 1.291 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN062254.D

Acq: 30 Jun 2020 21:04

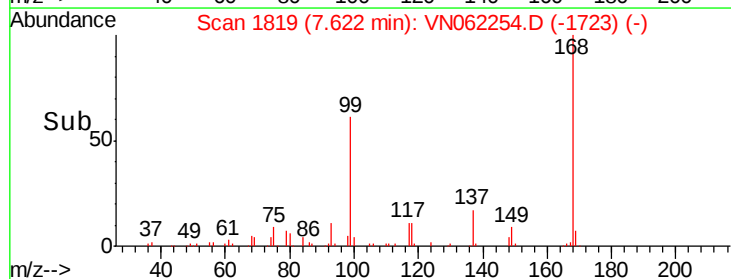
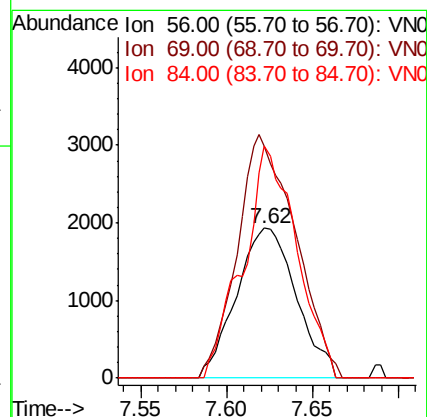
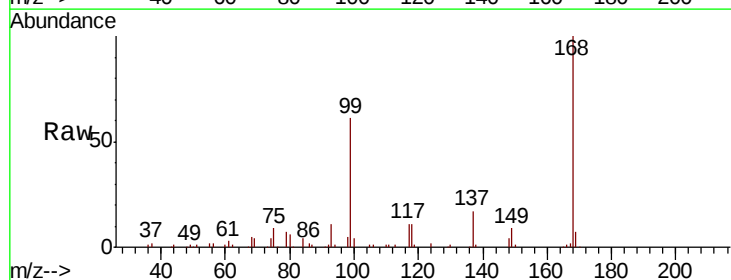
Tgt Ion: 56 Resp: 4680

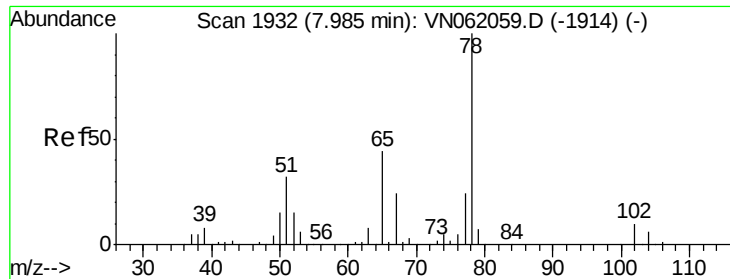
Ion Ratio Lower Upper

56 100

69 155.4 28.0 42.0#

84 155.3 76.1 114.1#

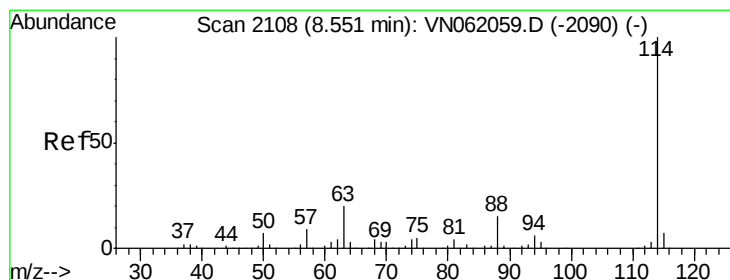
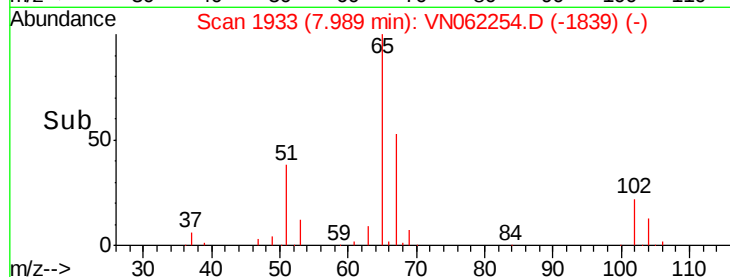
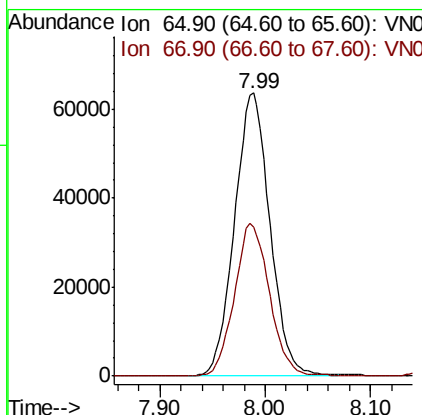
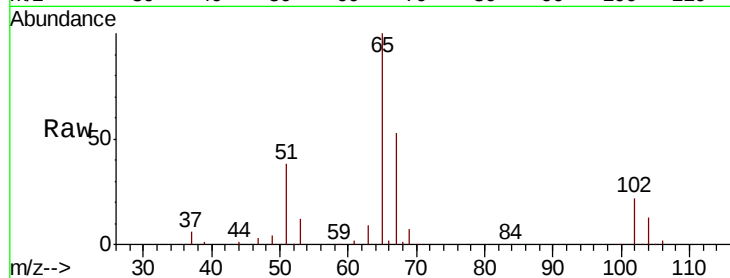




#33
 1,2-Dichloroethane-d4
 Concen: 56.500 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN062254.D
 Acq: 30 Jun 2020 21:04

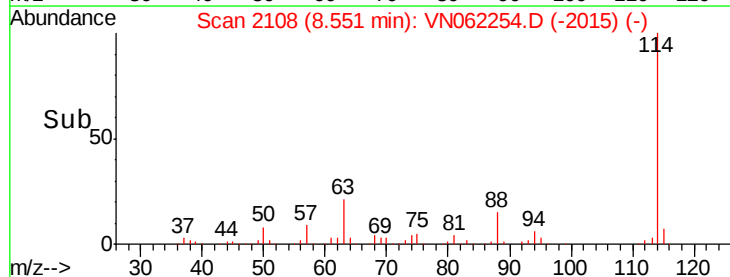
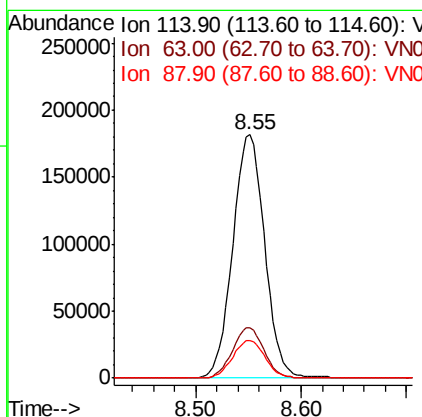
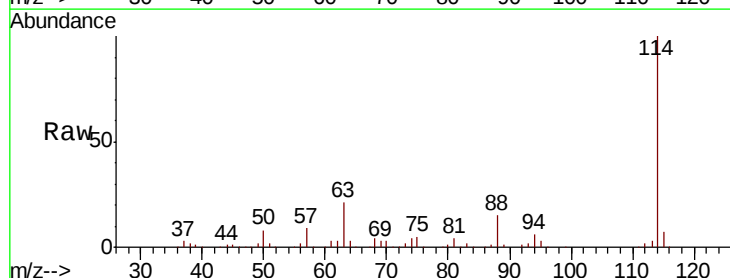
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2R

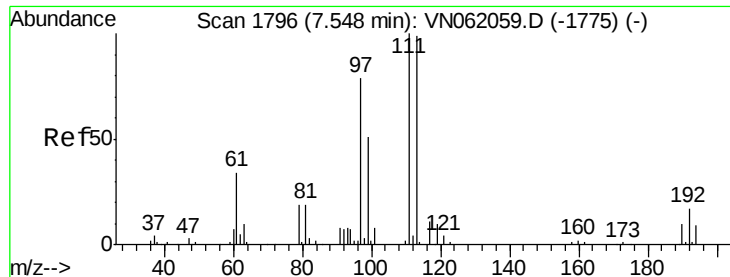
Tot Ion: 65 Resp: 148301
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN062254.D
 Acq: 30 Jun 2020 21:04

Tgt Ion: 114 Resp: 382139
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 39.2
 88 15.4 0.0 30.8

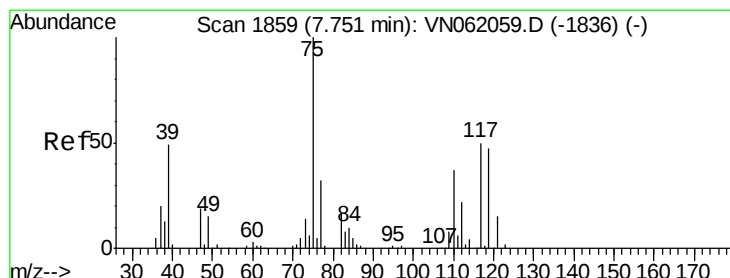
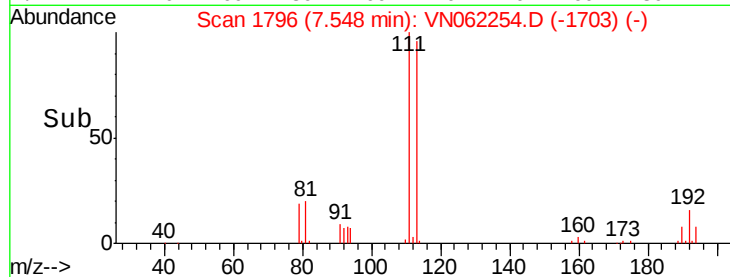
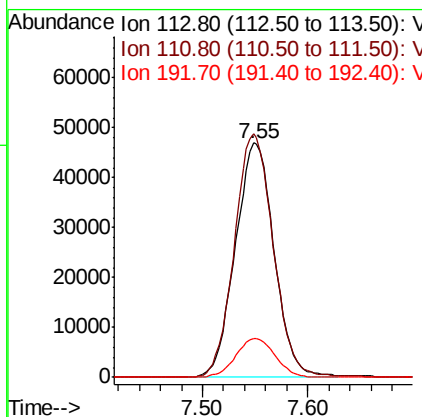
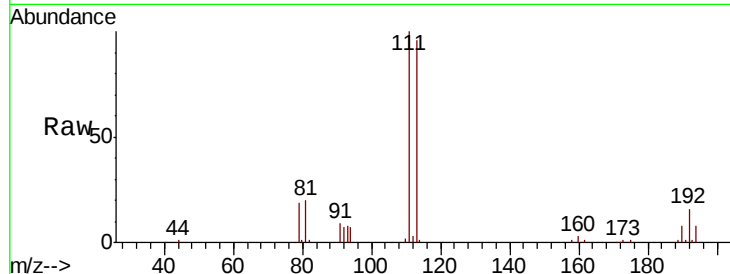




#35
 Dibromofluoromethane
 Concen: 49.113 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062254.D
 Acq: 30 Jun 2020 21:04

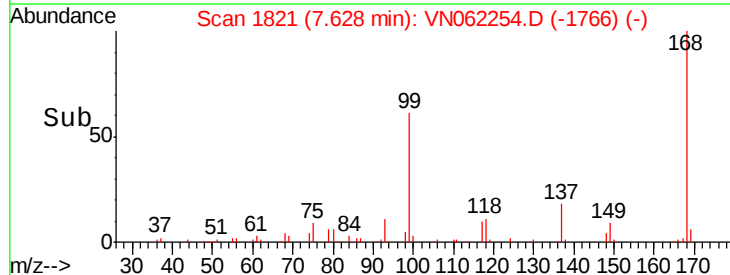
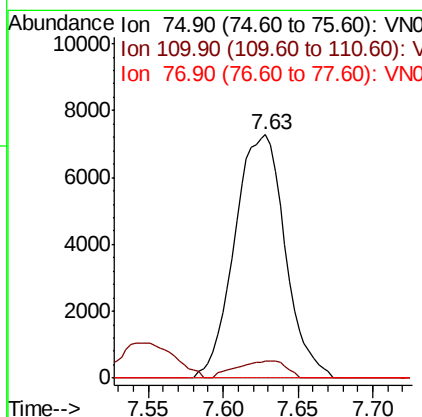
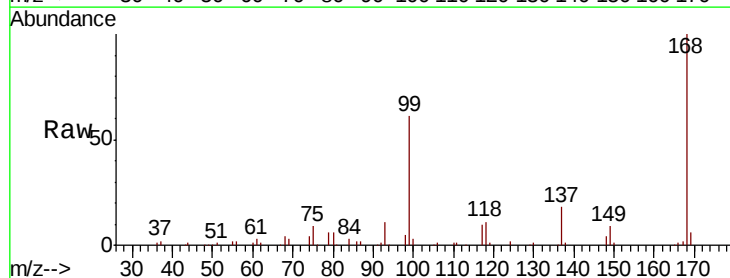
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2R

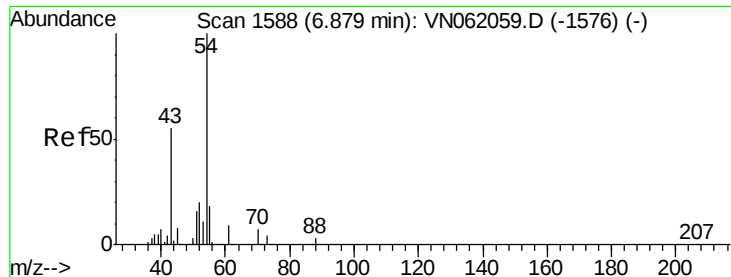
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.2	123.4
192	16.6	14.0	21.0



#36
 1,1-Dichloropropene
 Concen: 4.452 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062254.D
 Acq: 30 Jun 2020 21:04

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.9	17.9	53.8#
77	0.0	24.9	37.3#

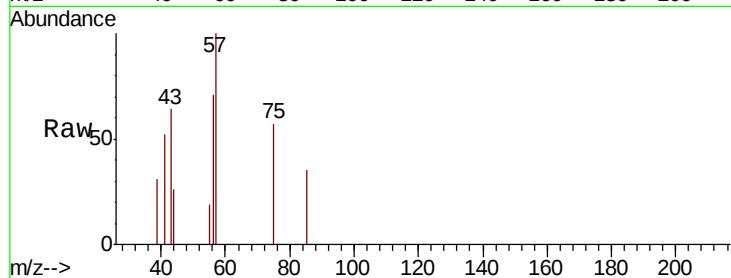




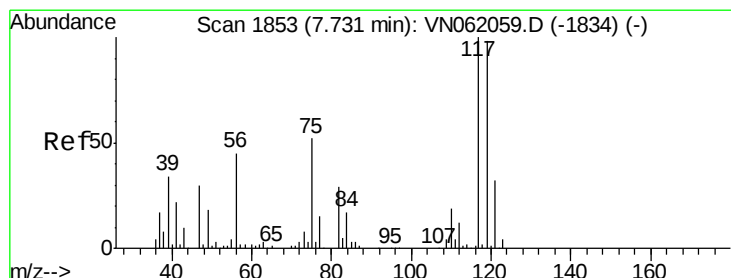
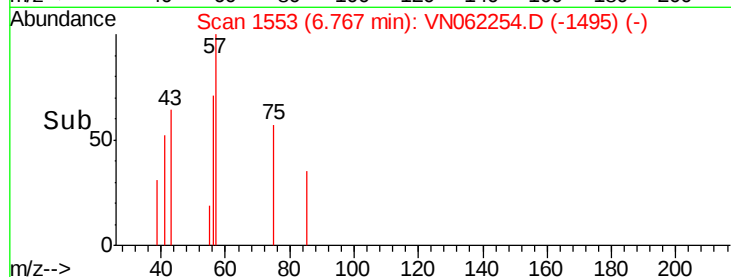
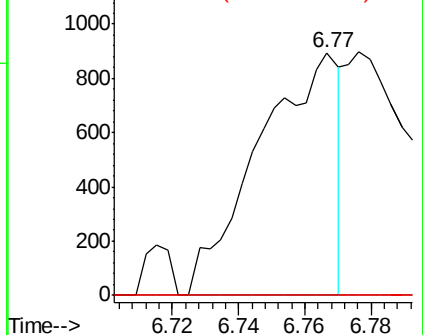
#37
Ethyl Acetate
Concen: 0.473 ug/l
RT: 6.77 min Scan# 1553
Delta R.T. -0.11 min
Lab File: VN062254.D
Acq: 30 Jun 2020 21:04

Instrument :
MSVOA_N
ClientSampleId :
MW-2R

Tot Ion: 43 Resp: 1503
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 0.0 9.6 14.4#

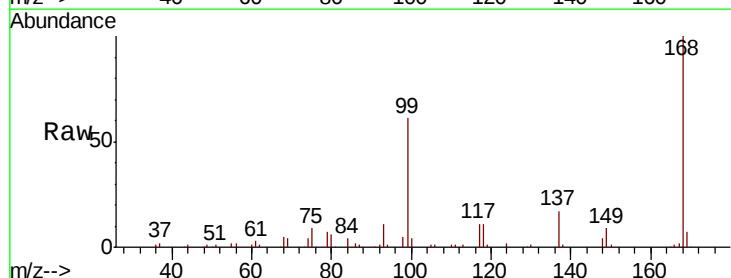


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

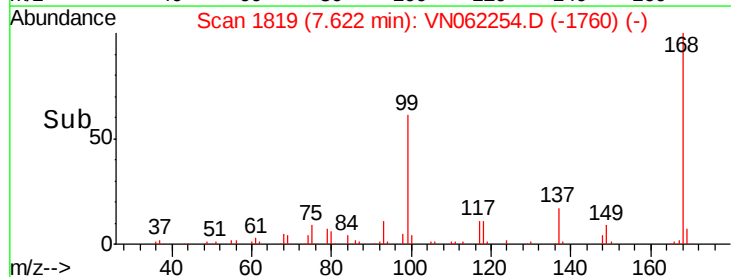
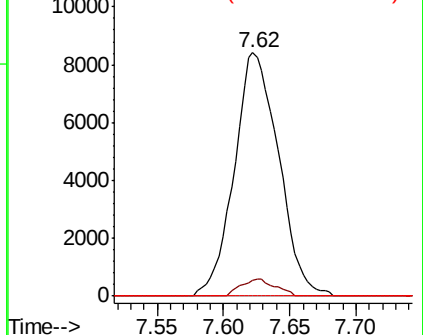


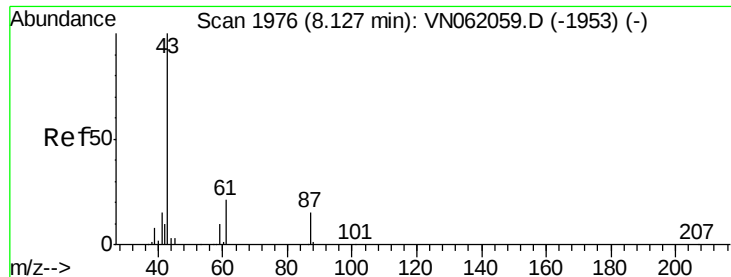
#38
Carbon Tetrachloride
Concen: 5.406 ug/l
RT: 7.62 min Scan# 1819
Delta R.T. -0.11 min
Lab File: VN062254.D
Acq: 30 Jun 2020 21:04

Tgt Ion: 117 Resp: 19576
Ion Ratio Lower Upper
117 100
119 6.4 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





#43

Isopropyl Acetate

Concen: 14.907 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.04 min

Lab File: VN062254.D

Acq: 30 Jun 2020 21:04

Instrument :

MSVOA_N

ClientSampleId :

MW-2R

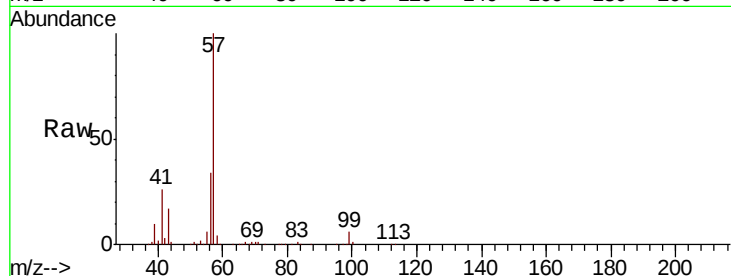
Tot Ion: 43 Resp: 77291

Ion Ratio Lower Upper

43 100

61 0.0 17.2 25.8#

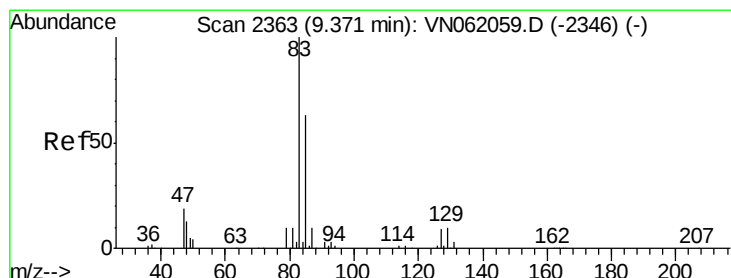
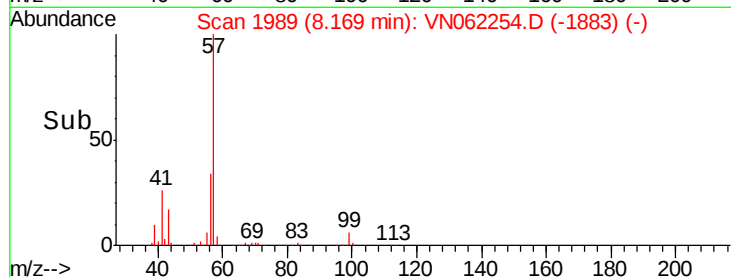
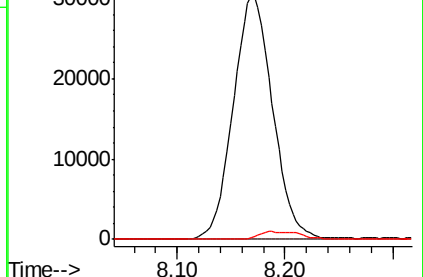
87 3.2 12.1 18.1#



Abundance Ion 43.00 (42.70 to 43.70): VN062059.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN062059.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN062059.D (-1953) (-)



#47

Bromodichloromethane

Concen: 0.837 ug/l

RT: 9.49 min Scan# 2399

Delta R.T. 0.12 min

Lab File: VN062254.D

Acq: 30 Jun 2020 21:04

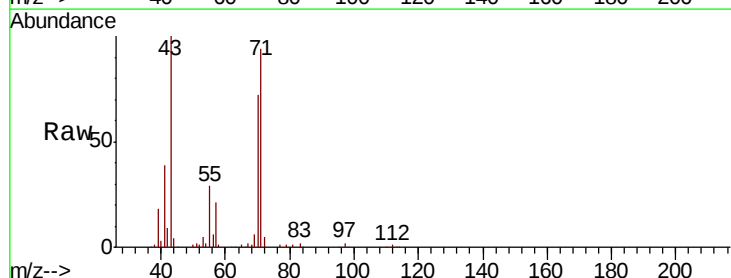
Tgt Ion: 83 Resp: 3309

Ion Ratio Lower Upper

83 100

85 0.0 50.3 75.5#

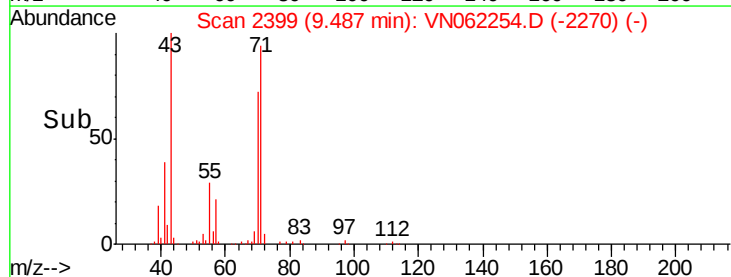
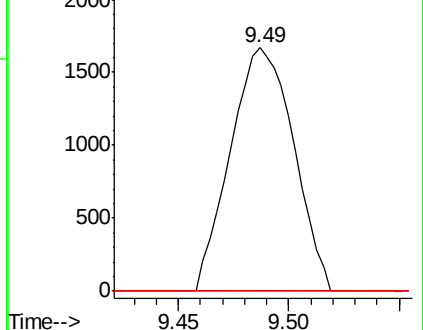
127 0.0 6.9 10.3#

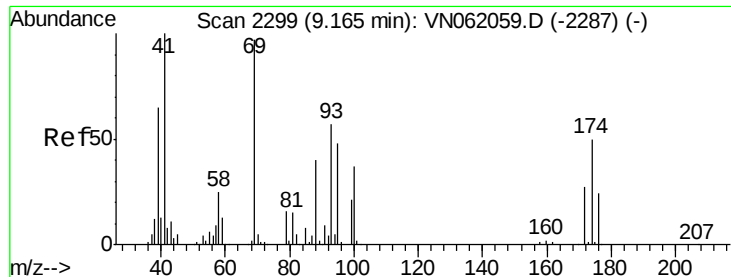


Abundance Ion 82.90 (82.60 to 83.60): VN062059.D (-2346) (-)

Ion 84.90 (84.60 to 85.60): VN062059.D (-2346) (-)

Ion 126.80 (126.50 to 127.50): VN062059.D (-2346) (-)

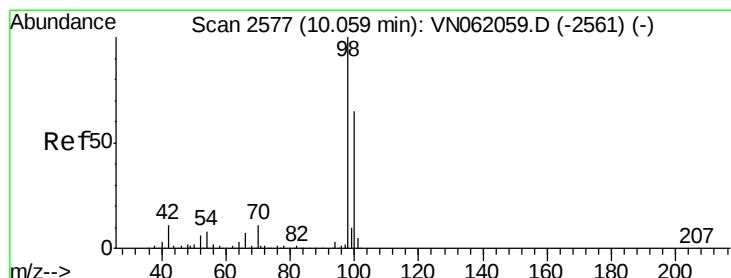
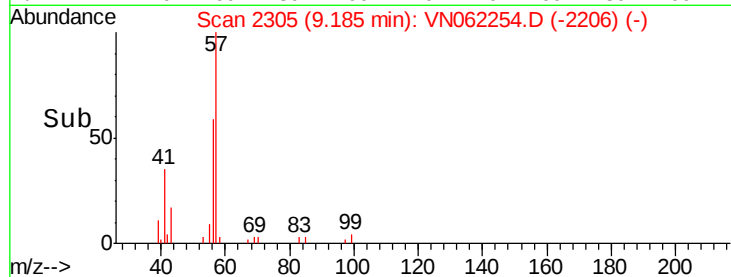
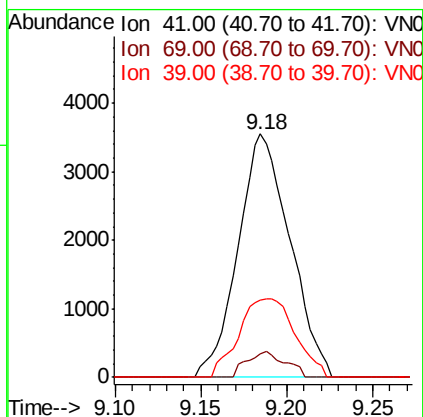
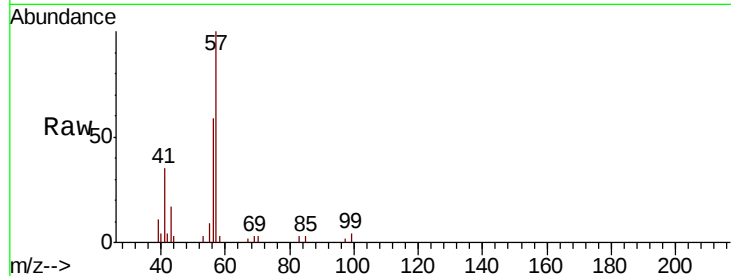




#48
Methvl methacrylate
Concen: 3.190 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. 0.02 min
Lab File: VN062254.D
Acq: 30 Jun 2020 21:04

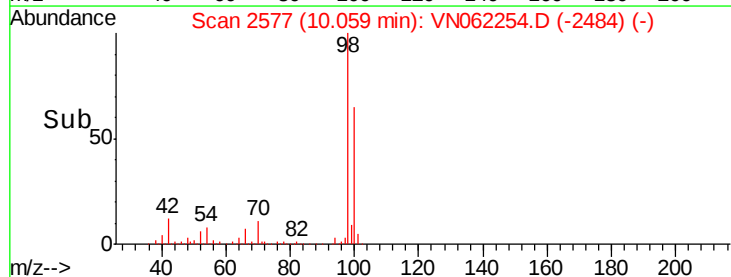
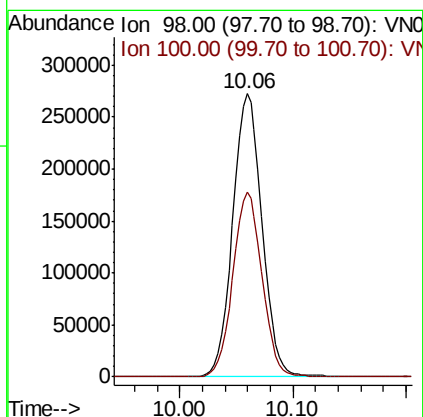
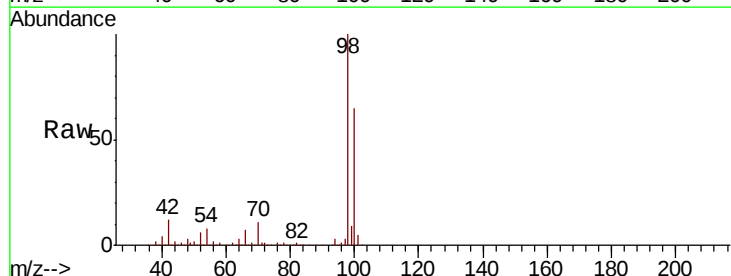
Instrument :
MSVOA_N
ClientSampleId :
MW-2R

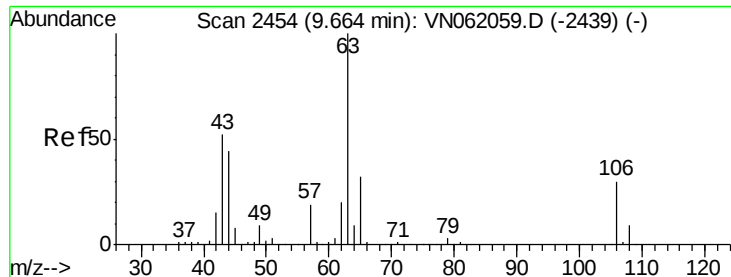
Tot Ion: 41 Resp: 7416
Ion Ratio Lower Upper
41 100
69 7.9 80.7 121.1#
39 34.9 54.5 81.7#



#50
Toluene-d8
Concen: 50.154 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN062254.D
Acq: 30 Jun 2020 21:04

Tgt Ion: 98 Resp: 491505
Ion Ratio Lower Upper
98 100
100 64.8 51.2 76.8

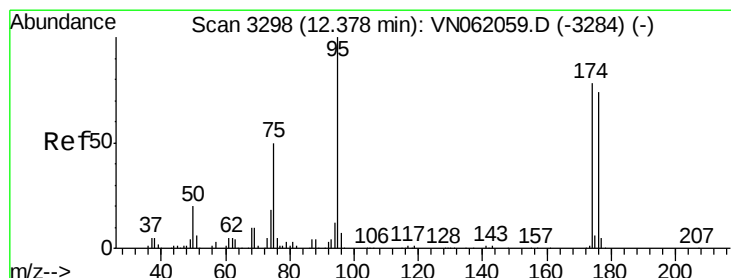
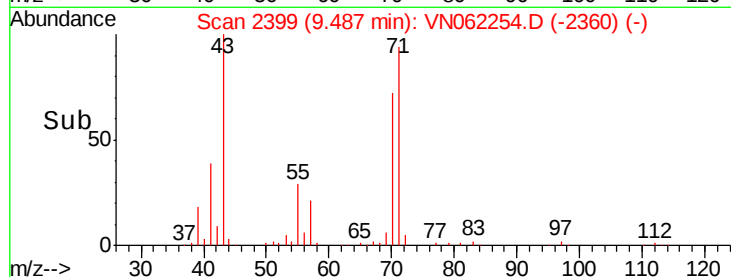
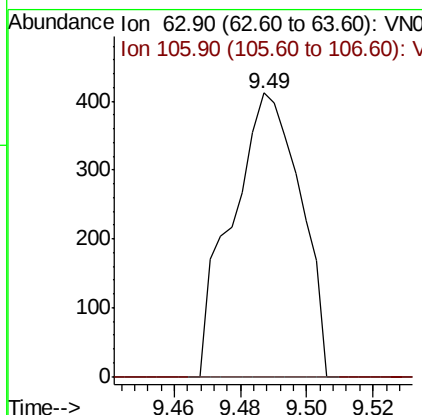
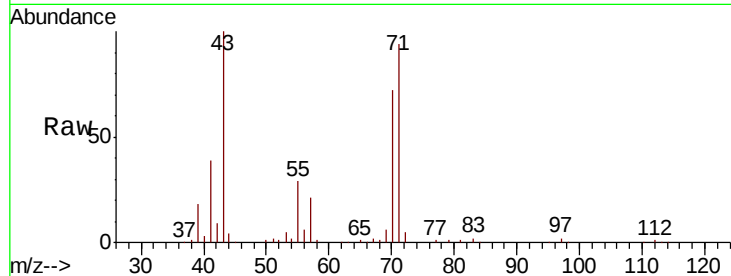




#58
2-Chloroethyl Vinyl ether
Concen: 16.449 ug/l
RT: 9.49 min Scan# 2399
Delta R.T. -0.18 min
Lab File: VN062254.D
Acq: 30 Jun 2020 21:04

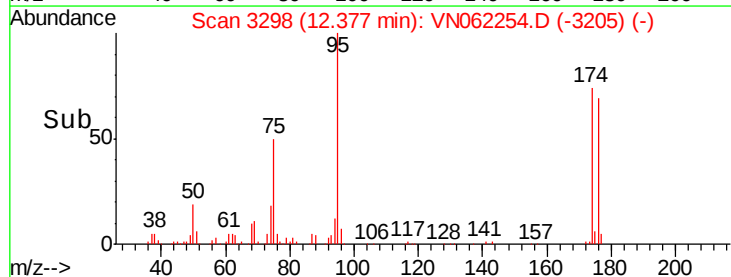
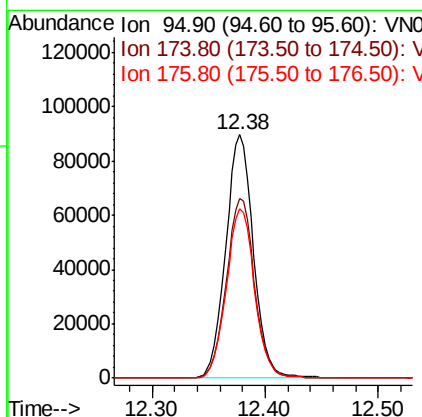
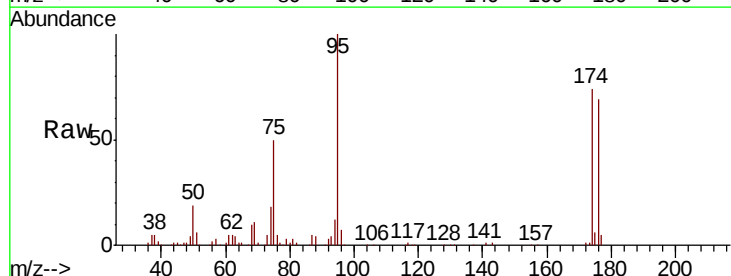
Instrument :
MSVOA_N
ClientSampled :
MW-2R

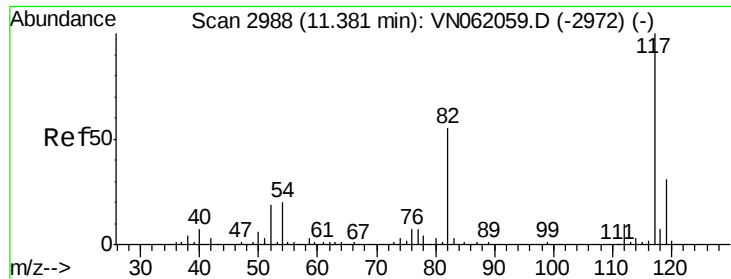
Tot Ion: 63 Resp: 591
Ion Ratio Lower Upper
63 100
106 0.0 23.2 34.8#



#62
4-Bromofluorobenzene
Concen: 45.953 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062254.D
Acq: 30 Jun 2020 21:04

Tgt Ion: 95 Resp: 152148
Ion Ratio Lower Upper
95 100
174 75.4 0.0 154.8
176 70.9 0.0 147.4

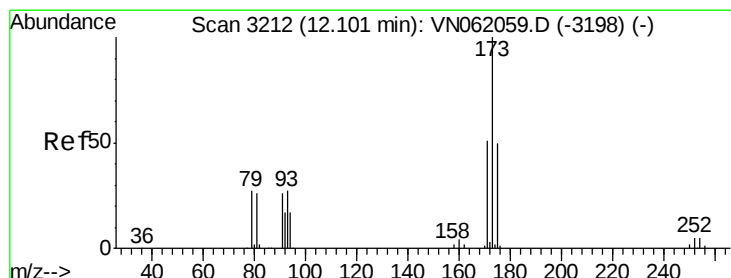
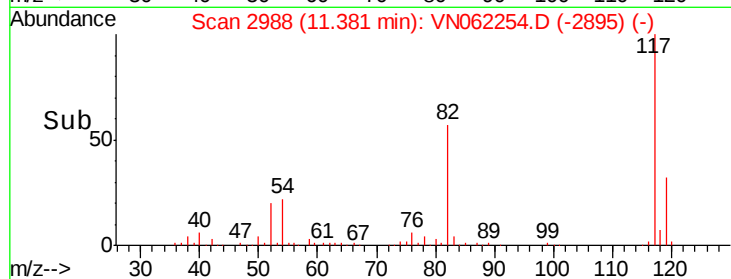
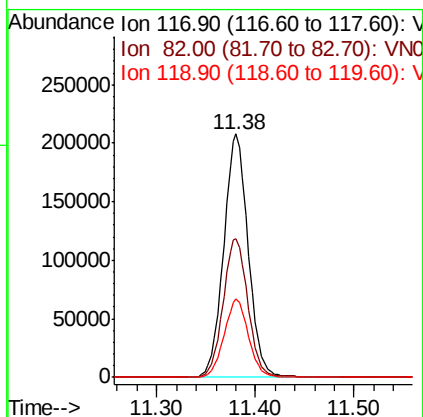
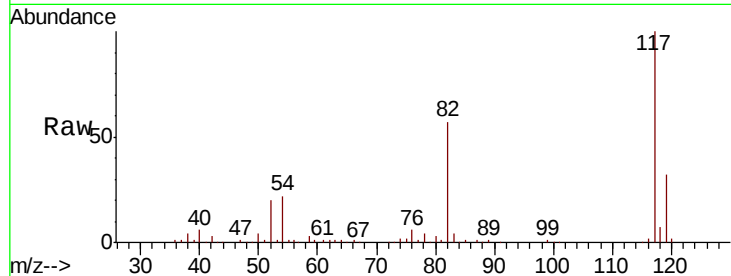




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062254.D
Acq: 30 Jun 2020 21:04

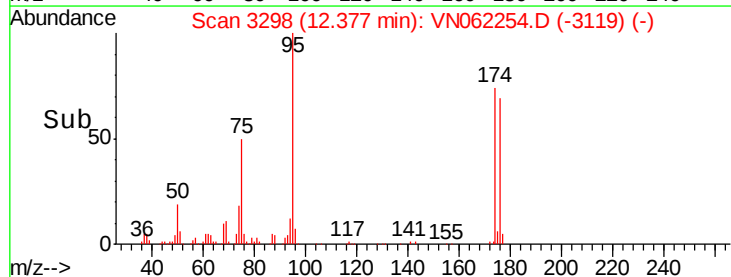
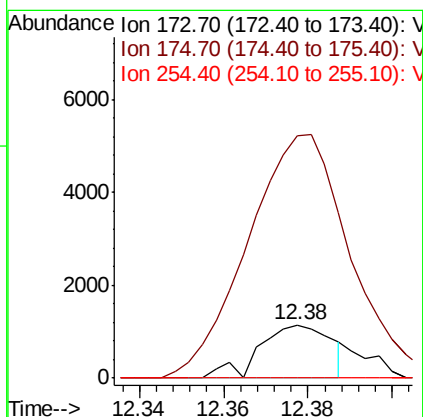
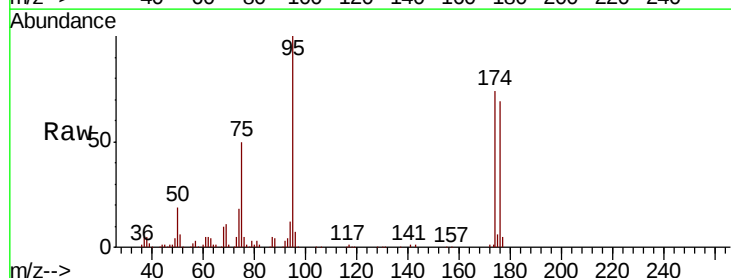
Instrument :
MSVOA_N
ClientSampled :
MW-2R

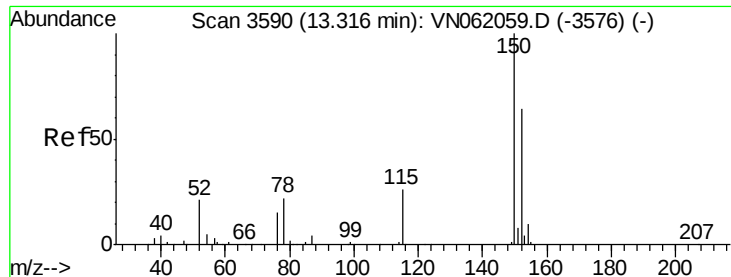
Tot Ion:117 Resp: 362200
Ion Ratio Lower Upper
117 100
82 56.8 43.8 65.8
119 32.4 25.2 37.8



#71
Bromoform
Concen: 0.696 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN062254.D
Acq: 30 Jun 2020 21:04

Tgt Ion:173 Resp: 1362
Ion Ratio Lower Upper
173 100
175 541.3 24.7 74.1#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062254.D

Acq: 30 Jun 2020 21:04

Instrument :

MSVOA_N

ClientSampleId :

MW-2R

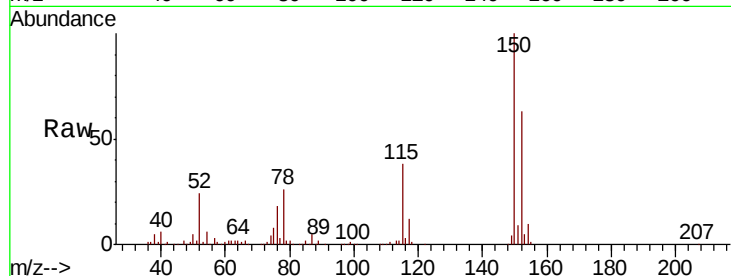
Tot Ion:152 Resp: 128878

Ion Ratio Lower Upper

152 100

115 60.3 29.5 88.5

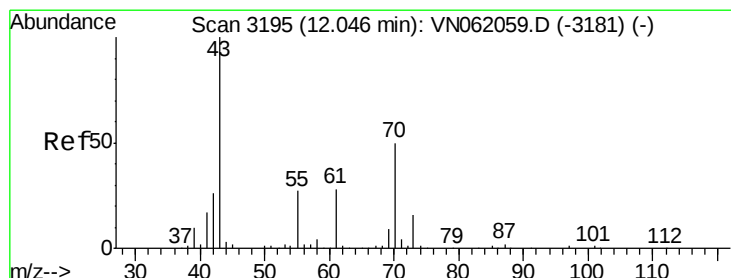
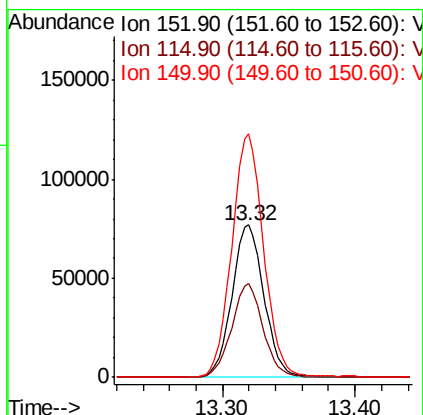
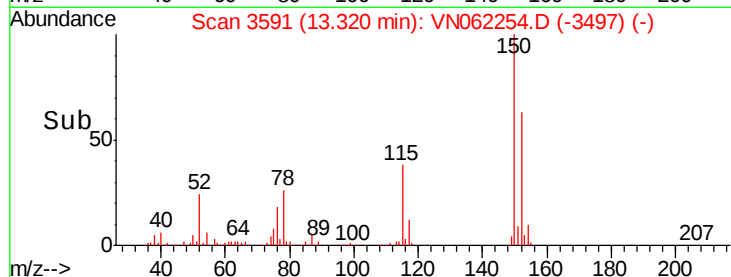
150 158.8 0.0 351.4



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-ethyl acetate

Concen: 3.360 ug/l

RT: 12.01 min Scan# 3185

Delta R.T. -0.03 min

Lab File: VN062254.D

Acq: 30 Jun 2020 21:04

Tgt Ion: 43 Resp: 68

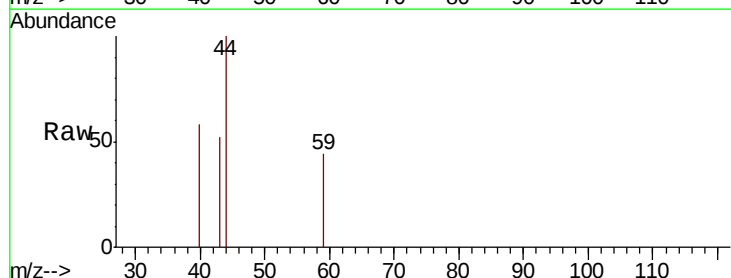
Ion Ratio Lower Upper

43 100

70 0.0 39.4 59.2#

55 0.0 21.7 32.5#

61 0.0 21.3 31.9#

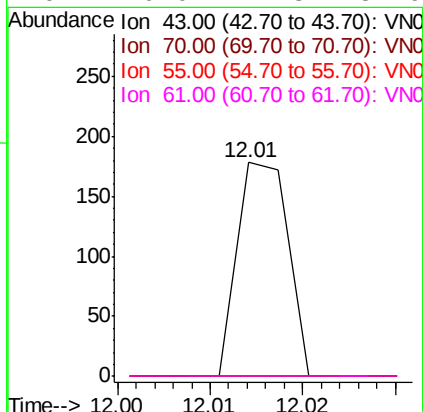
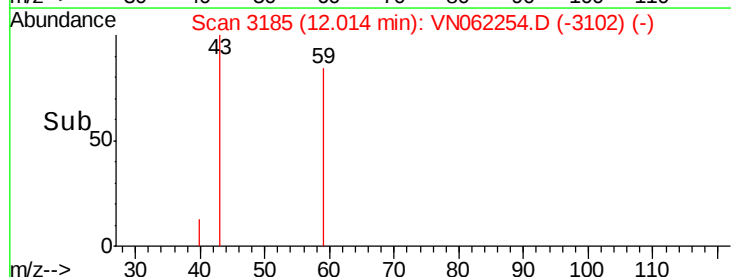


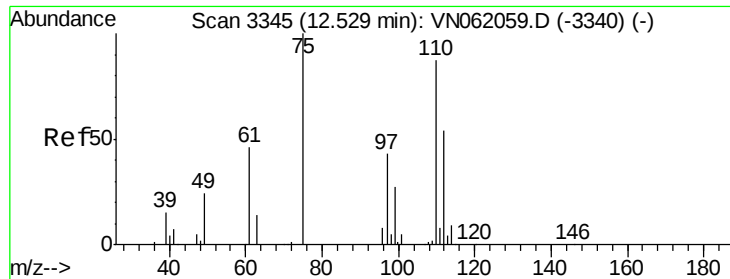
Abundance Ion 43.00 (42.70 to 43.70): VN0

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





#76

1,2,3-Trichloropropane

Concen: 25.797 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN062254.D

Acq: 30 Jun 2020 21:04

Instrument :

MSVOA_N

ClientSampled :

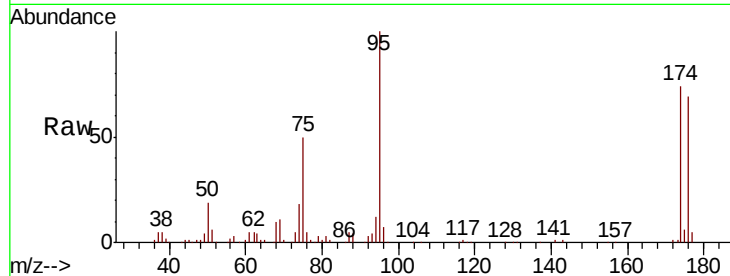
MW-2R

Tot Ion: 75 Resp: 78264

Ion Ratio Lower Upper

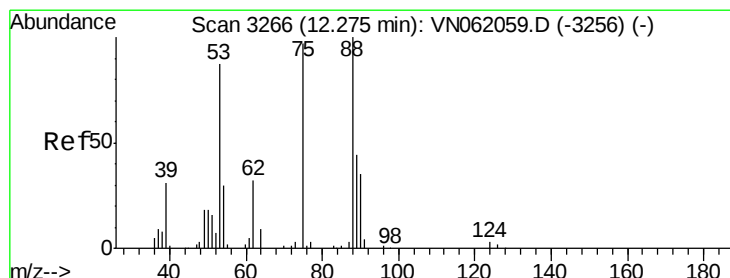
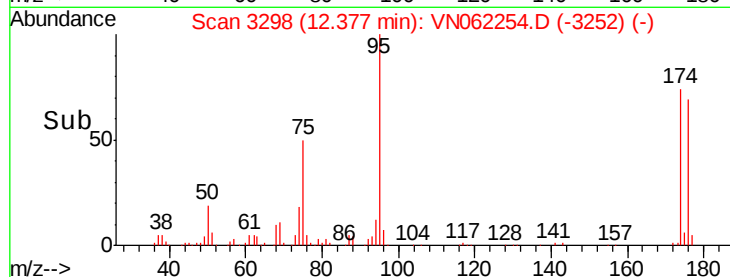
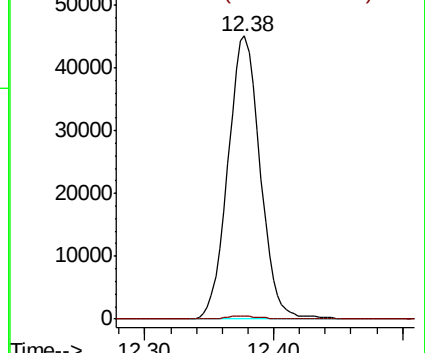
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 75.336 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062254.D

Acq: 30 Jun 2020 21:04

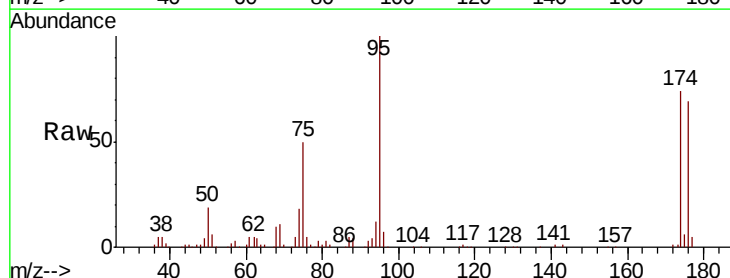
Tgt Ion: 75 Resp: 78264

Ion Ratio Lower Upper

75 100

53 0.0 72.0 108.0#

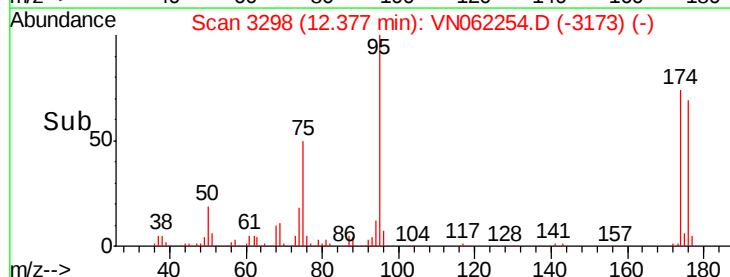
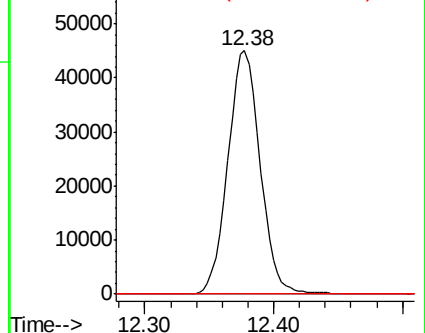
89 0.0 36.9 55.3#

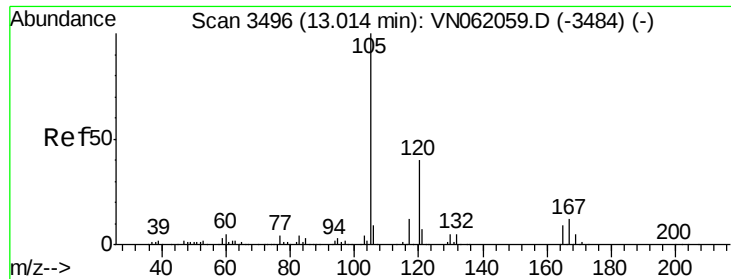


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

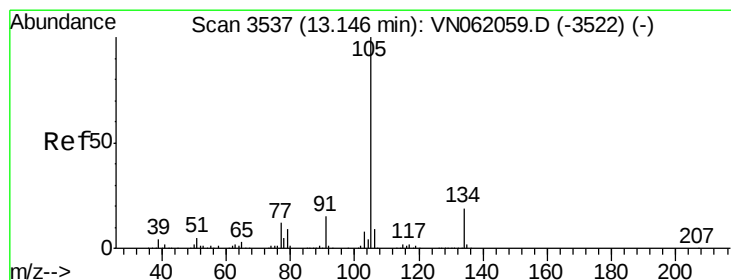
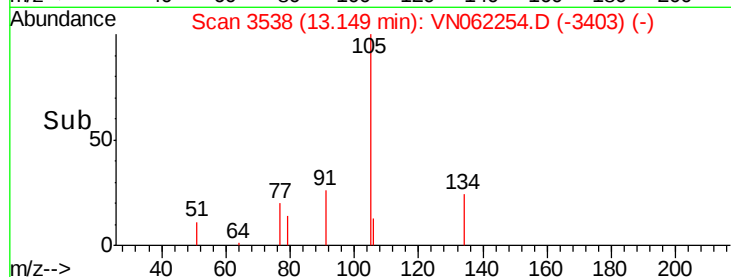
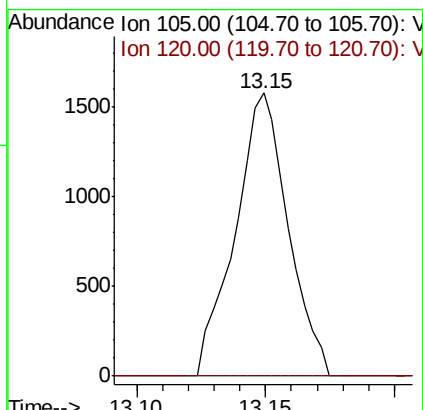
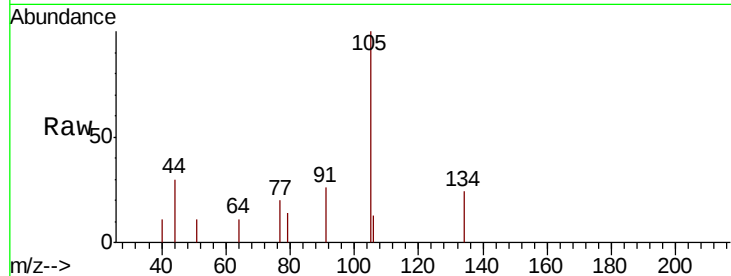




#84
 1,2,4-Trimethylbenzene
 Concen: 0.279 ug/l
 RT: 13.15 min Scan# 3538
 Delta R.T. 0.13 min
 Lab File: VN062254.D
 Acq: 30 Jun 2020 21:04

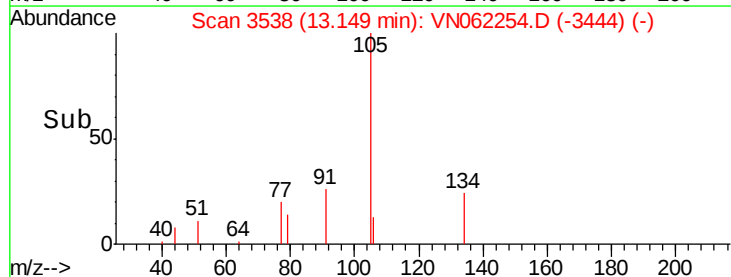
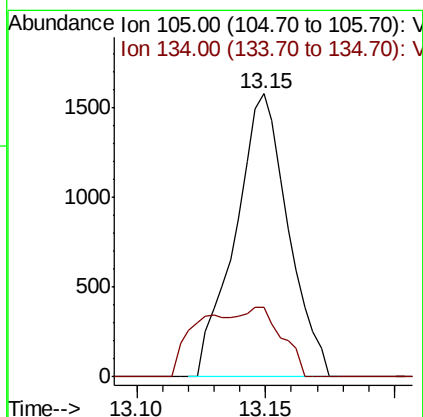
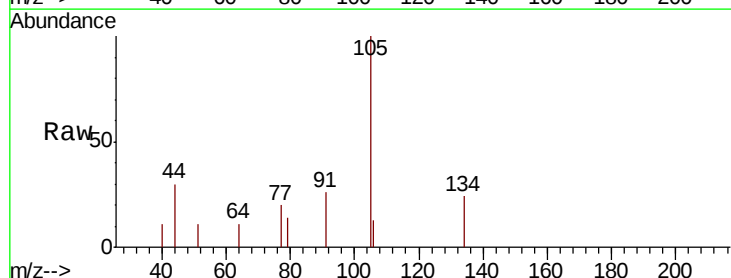
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2R

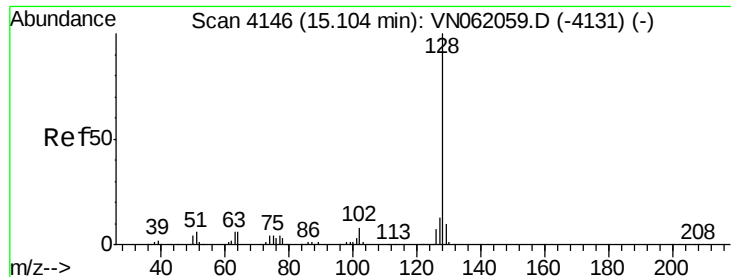
Tot Ion:105 Resp: 2254
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.2 69.5#



#85
 sec-Butylbenzene
 Concen: 0.246 ug/l
 RT: 13.15 min Scan# 3538
 Delta R.T. 0.00 min
 Lab File: VN062254.D
 Acq: 30 Jun 2020 21:04

Tgt Ion:105 Resp: 2254
 Ion Ratio Lower Upper
 105 100
 134 15.0 9.7 29.1





#95
Naphthalene
Concen: 4.059 ug/l
RT: 14.94 min Scan# 4094
Delta R.T. -0.17 min
Lab File: VN062254.D
Acq: 30 Jun 2020 21:04

Instrument :
MSVOA_N
ClientSampleId :
MW-2R

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	138.6	8.6	13.0#

