

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052819\
 Data File : VN055846.D
 Acq On : 28 May 2019 12:26
 Operator : JC/SP
 Sample : K3037-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW2-R1-1

Quant Time: May 28 17:37:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052319W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 24 06:41:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	436012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	609438	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	548020	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	184641	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	203067	45.10	ug/l	0.00
Spiked Amount			Recovery	=	90.20%	
35) Dibromofluoromethane	7.59	113	183700	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	10.09	98	723446	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
62) 4-Bromofluorobenzene	12.40	95	224724	44.34	ug/l	0.00
Spiked Amount			Recovery	=	88.68%	

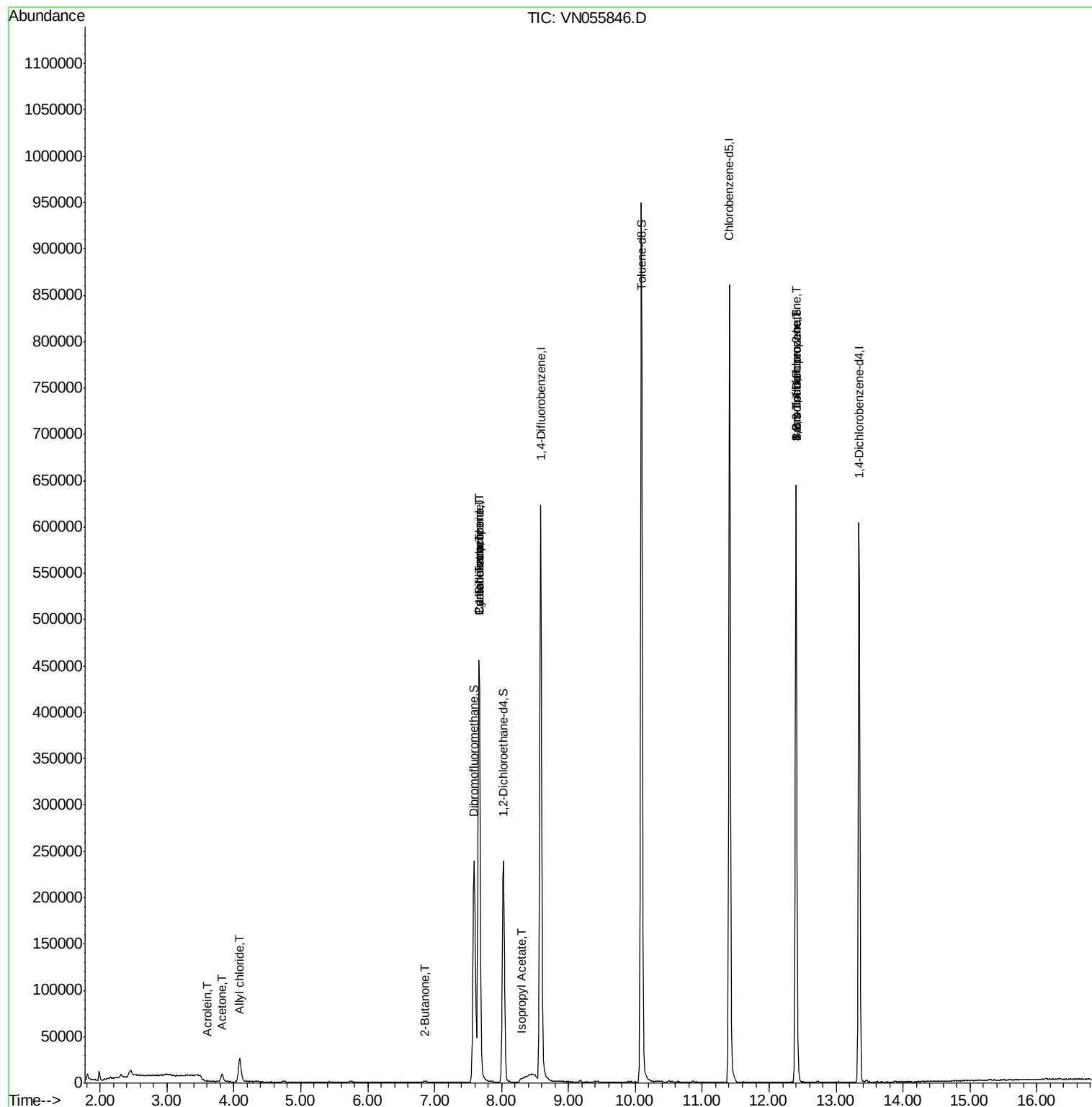
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	172	0.279	ug/l #	36
14) Allyl chloride	4.09	41	4334	0.682	ug/l #	67
16) Acetone	3.82	43	14543	7.347	ug/l	93
18) Methyl Acetate	4.33	43	1900	Below Cal	#	70
25) 2-Butanone	6.85	43	1152	0.417	ug/l	96
31) Cyclohexane	7.66	56	6103	0.903	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	25459	4.794	ug/l #	47
38) Carbon Tetrachloride	7.66	117	35675	6.449	ug/l #	14
43) Isopropyl Acetate	8.30	43	3183	0.369	ug/l #	53
71) Bromoform	12.40	173	1491	0.400	ug/l #	1
74) N-amyl acetate	12.07	43	111	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	105381	32.013	ug/l #	100
79) 2-Chlorotoluene	12.40	91	589	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	105381	76.791	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	286	Below Cal	#	30
85) sec-Butylbenzene	13.04	105	286	Below Cal	#	55

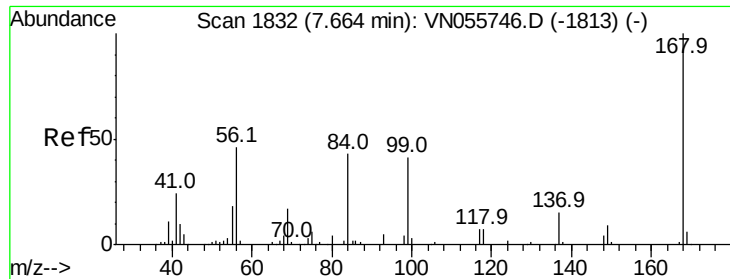
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 24 06:41:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055846.D

Acq: 28 May 2019 12:26

Instrument :

MSVOA_N

ClientSampleId :

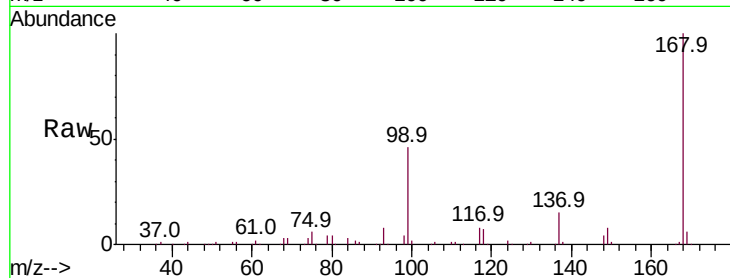
MW2-R1-1

Tot Ion:168 Resp: 436012

Ion Ratio Lower Upper

168 100

99 46.3 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

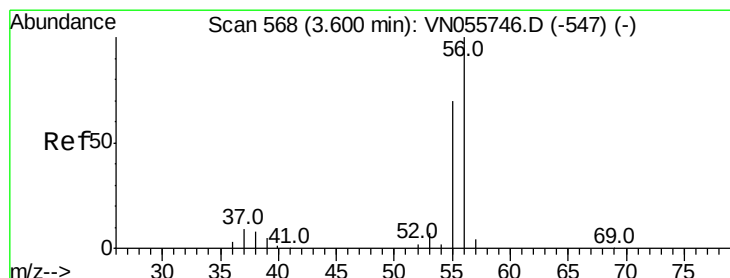
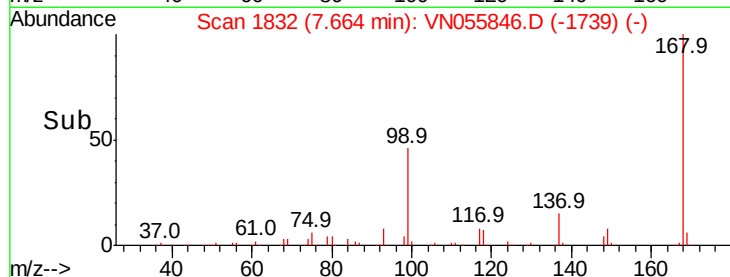
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#13

Acrolein

Concen: 0.279 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.00 min

Lab File: VN055846.D

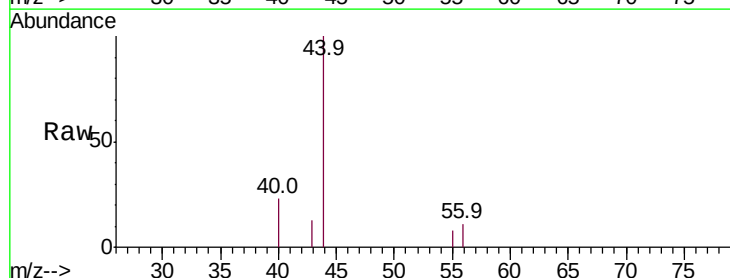
Acq: 28 May 2019 12:26

Tgt Ion: 56 Resp: 172

Ion Ratio Lower Upper

56 100

55 16.9 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.60

200

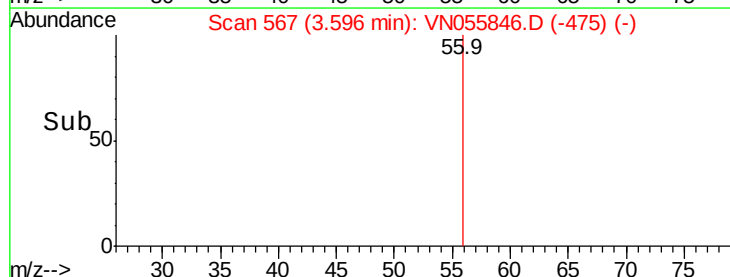
150

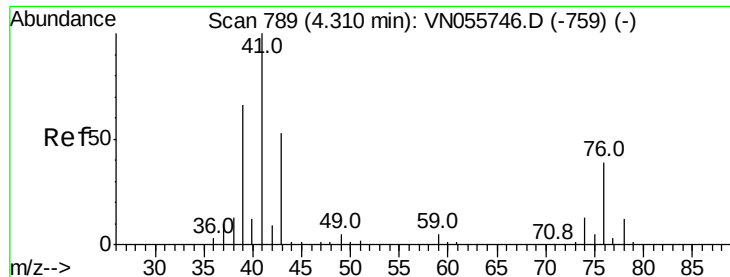
100

50

0

Time--> 3.58 3.59 3.60 3.61 3.62





#14

Allvl chloride

Concen: 0.682 ug/l

RT: 4.09 min Scan# 721

Delta R.T. -0.22 min

Lab File: VN055846.D

Acq: 28 May 2019 12:26

Instrument :

MSVOA_N

ClientSampleId :

MW2-R1-1

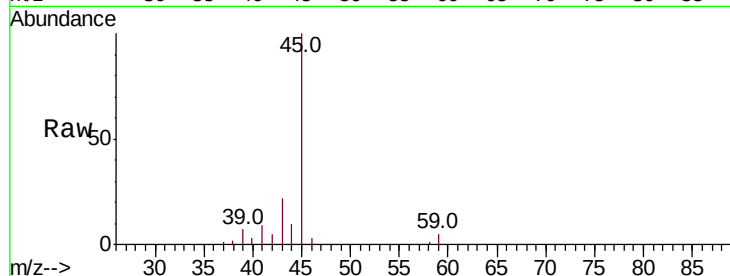
Tot Ion: 41 Resp: 4334

Ion Ratio Lower Upper

41 100

39 76.3 50.0 75.0#

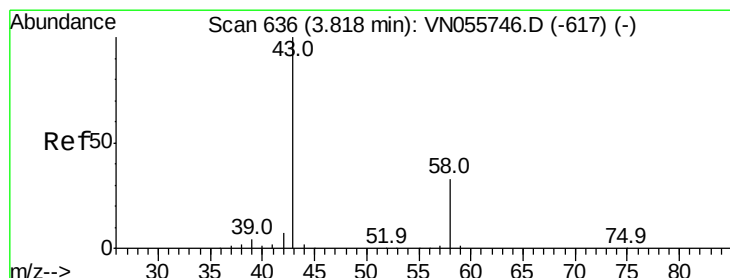
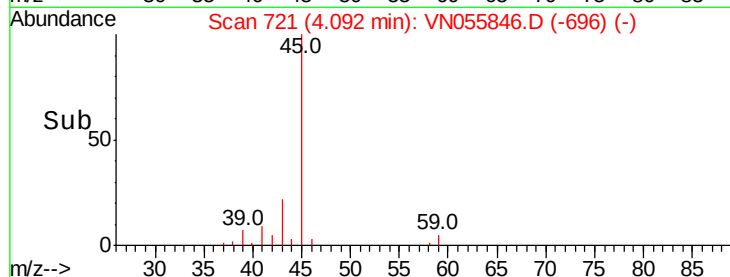
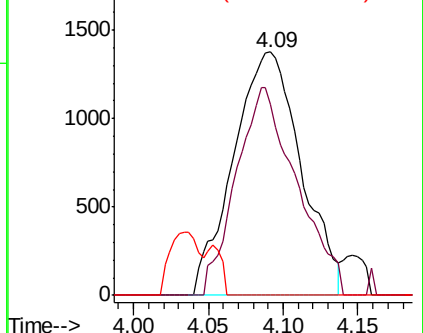
76 0.0 28.2 42.2#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 75.90 (75.60 to 76.60): VNC



#16

Acetone

Concen: 7.347 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN055846.D

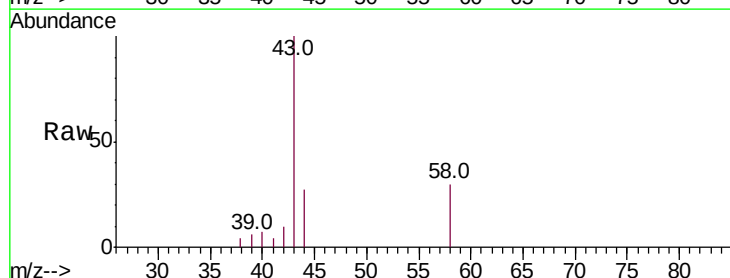
Acq: 28 May 2019 12:26

Tgt Ion: 43 Resp: 14543

Ion Ratio Lower Upper

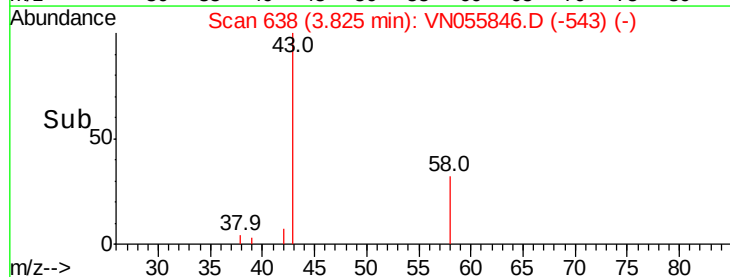
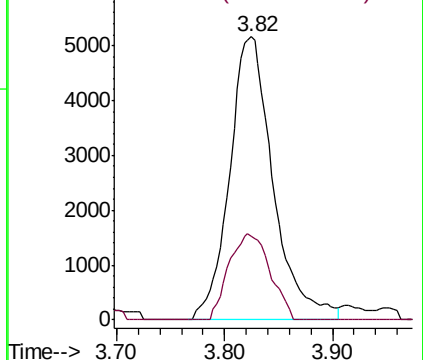
43 100

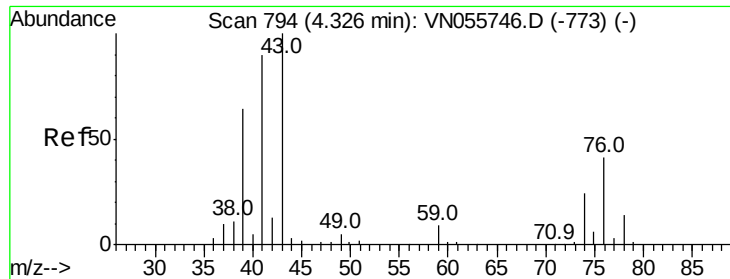
58 29.5 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 58.00 (57.70 to 58.70): VNC

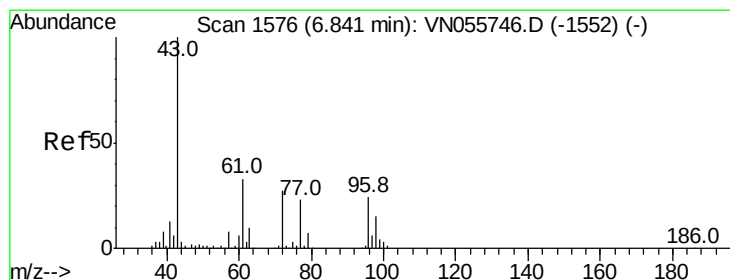
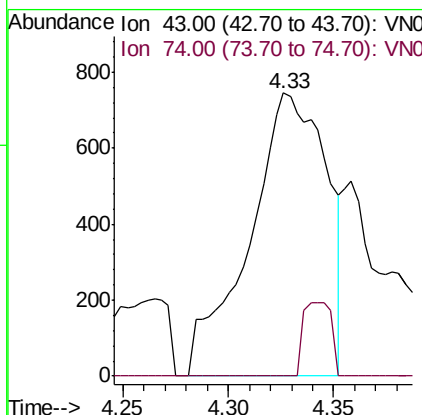
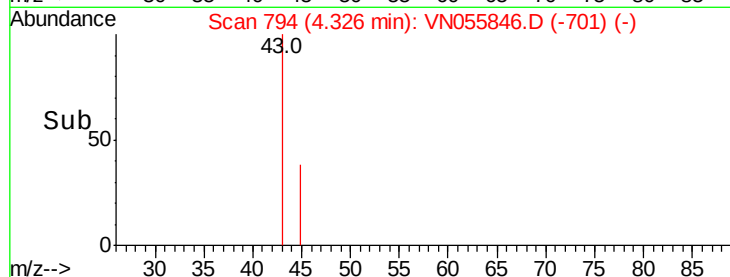
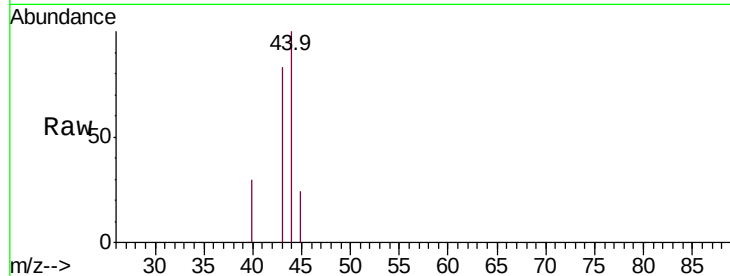




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN055846.D
Acq: 28 May 2019 12:26

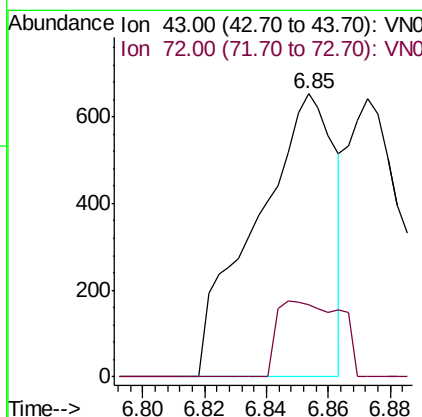
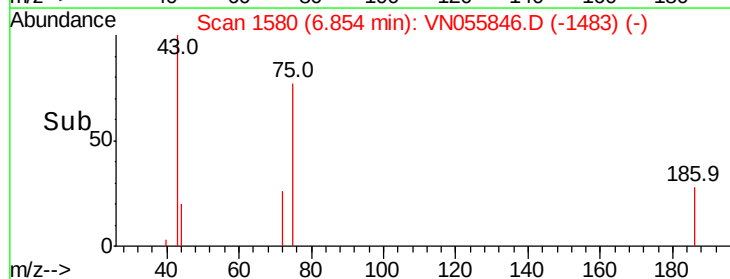
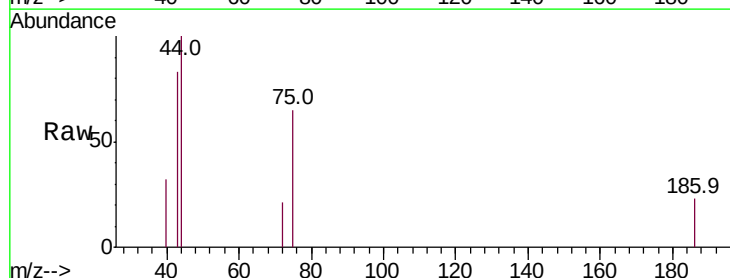
Instrument :
MSVOA_N
ClientSampled :
MW2-R1-1

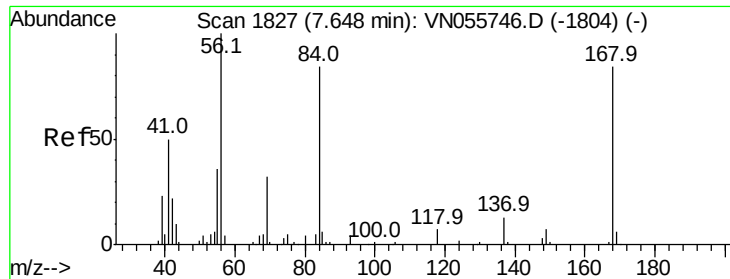
Tot Ion: 43 Resp: 1900
Ion Ratio Lower Upper
43 100
74 9.4 19.3 28.9#



#25
2-Butanone
Concen: 0.417 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN055846.D
Acq: 28 May 2019 12:26

Tgt Ion: 43 Resp: 1152
Ion Ratio Lower Upper
43 100
72 25.6 21.9 32.9

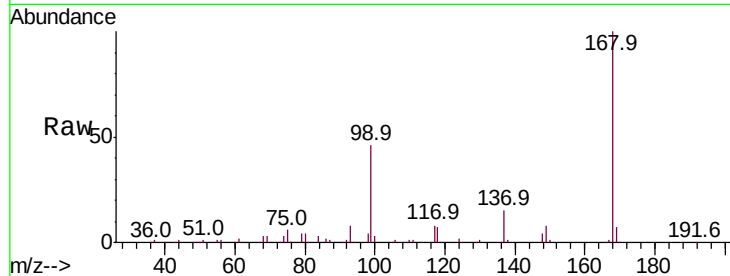




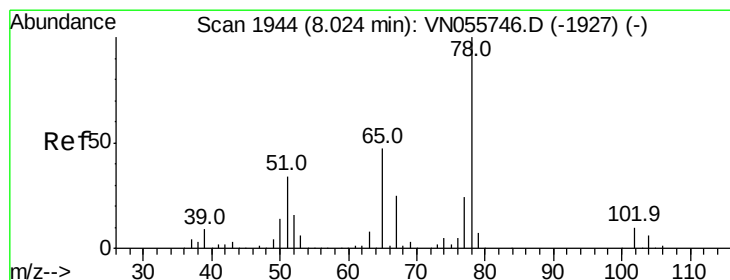
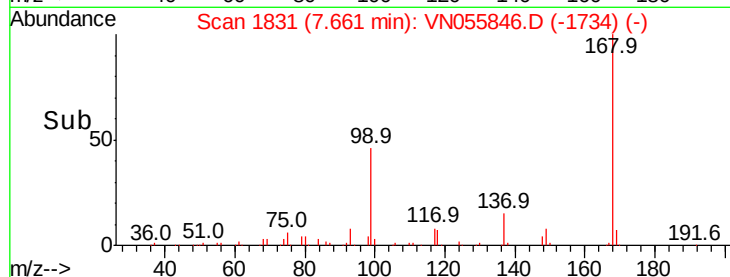
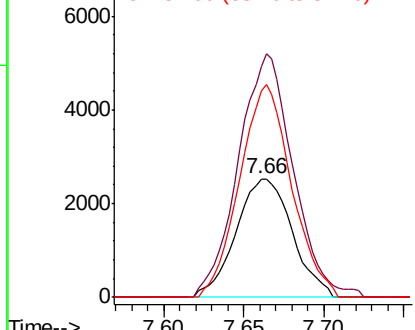
#31
Cyclohexane
Concen: 0.903 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN055846.D
Acq: 28 May 2019 12:26

Instrument :
MSVOA_N
ClientSampleId :
MW2-R1-1

Tot Ion: 56 Resp: 6103
Ion Ratio Lower Upper
56 100
69 194.5 25.6 38.4#
84 174.7 67.4 101.0#

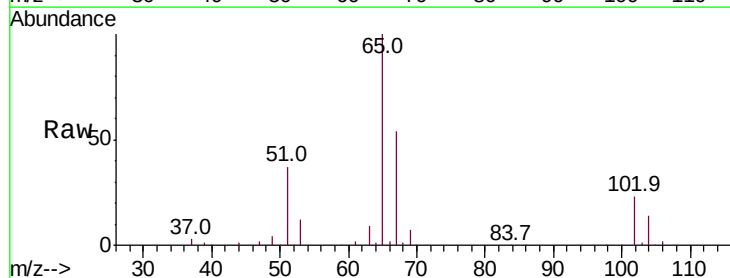


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

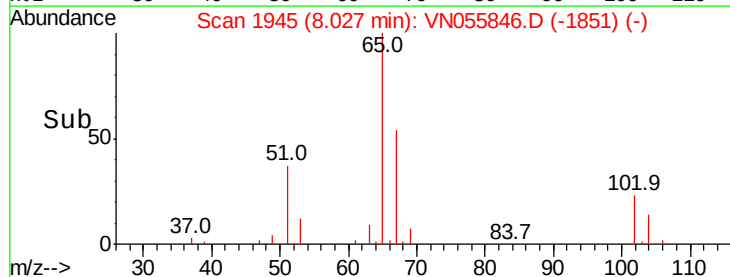
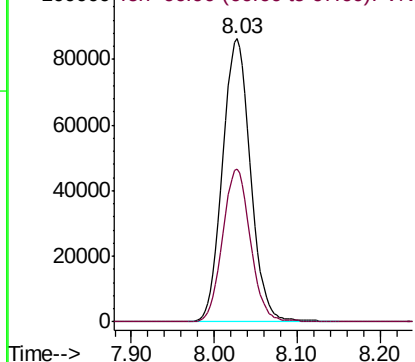


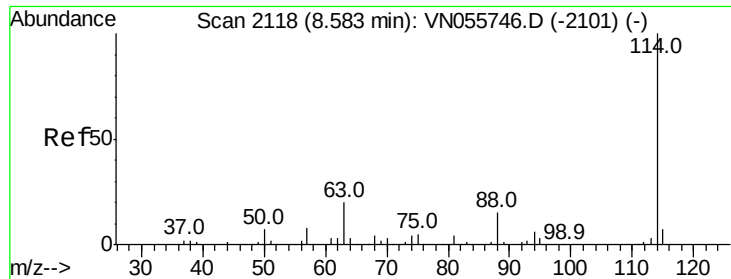
#33
1,2-Dichloroethane-d4
Concen: 45.098 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055846.D
Acq: 28 May 2019 12:26

Tgt Ion: 65 Resp: 203067
Ion Ratio Lower Upper
65 100
67 53.3 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

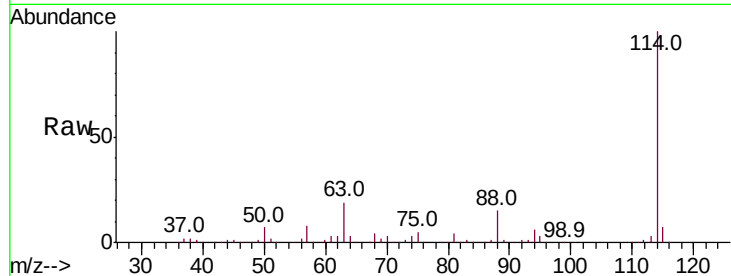




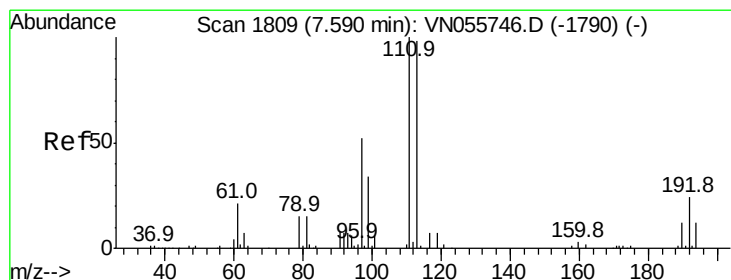
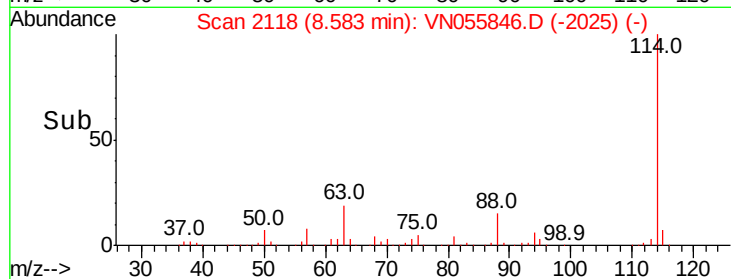
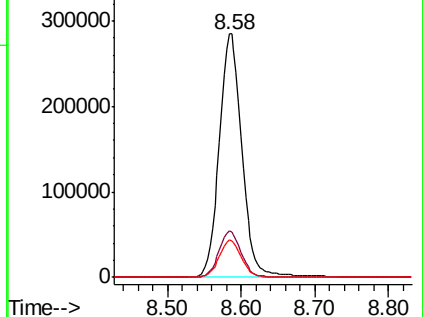
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055846.D
 Acq: 28 May 2019 12:26

Instrument :
 MSVOA_N
 ClientSampleId :
 MW2-R1-1

Tot Ion:114 Resp: 609438
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 15.2 0.0 31.0

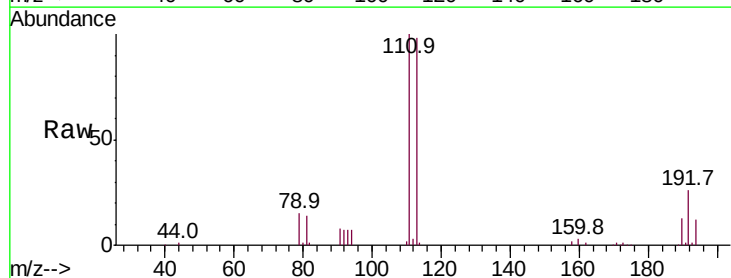


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

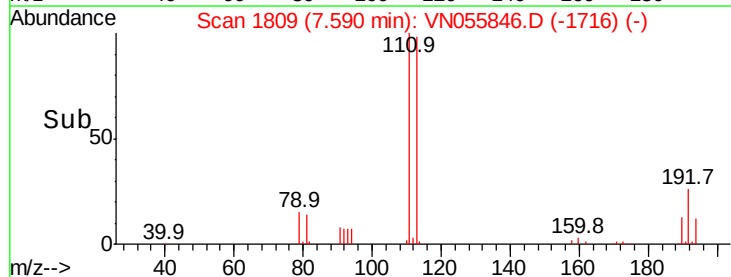
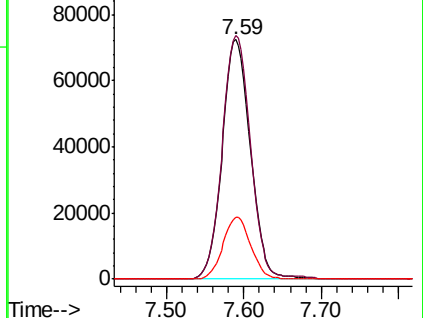


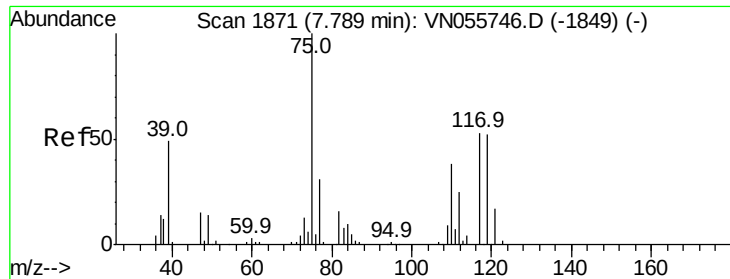
#35
 Dibromofluoromethane
 Concen: 47.676 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055846.D
 Acq: 28 May 2019 12:26

Tgt Ion:113 Resp: 183700
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.9 122.9
 192 25.4 19.5 29.3



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

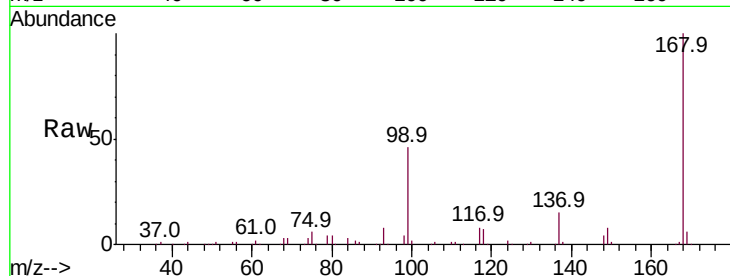




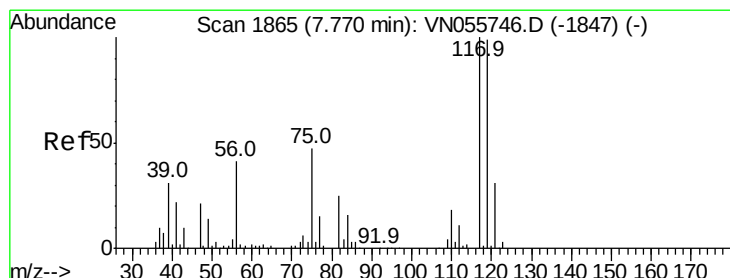
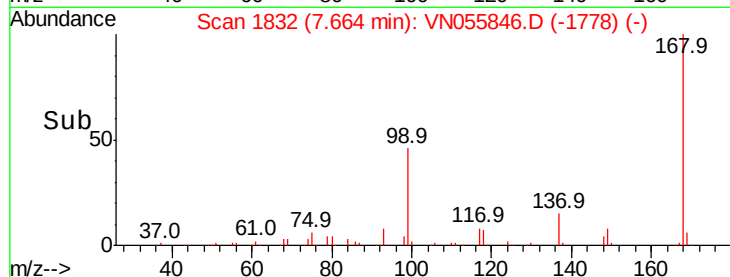
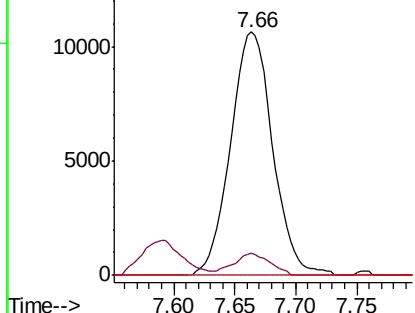
#36
 1,1-Dichloropropene
 Concen: 4.794 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055846.D
 Acq: 28 May 2019 12:26

Instrument :
 MSVOA_N
 ClientSampled :
 MW2-R1-1

Tot Ion	Ratio	Lower	Upper
75	100		
110	7.9	19.0	57.0#
77	0.0	25.1	37.7#

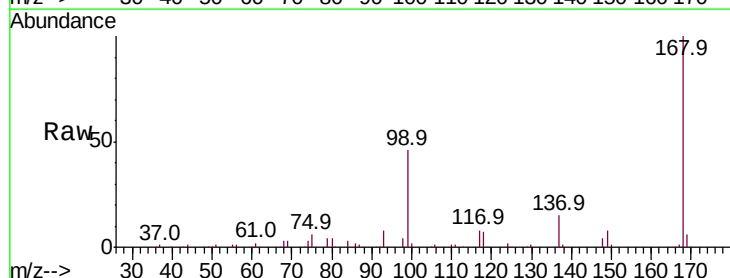


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

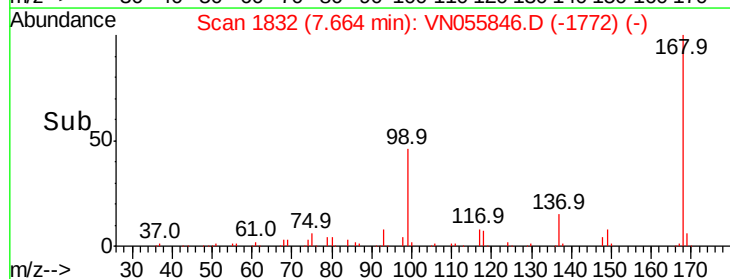
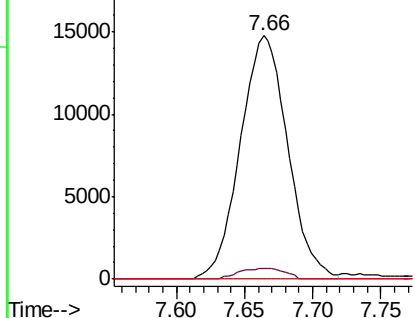


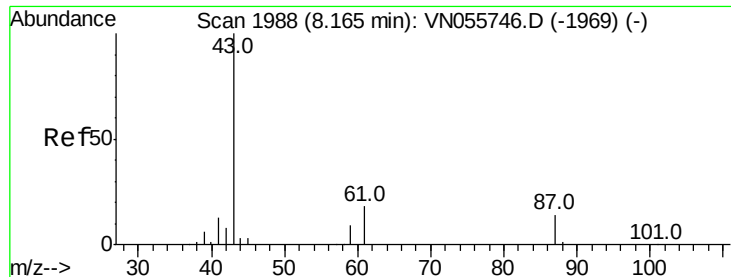
#38
 Carbon Tetrachloride
 Concen: 6.449 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055846.D
 Acq: 28 May 2019 12:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.5	79.0	118.6#
121	0.0	24.7	37.1#



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: 0.369 ug/l

RT: 8.30 min Scan# 2029

Delta R.T. 0.13 min

Lab File: VN055846.D

Acq: 28 May 2019 12:26

Instrument :

MSVOA_N

ClientSampleId :

MW2-R1-1

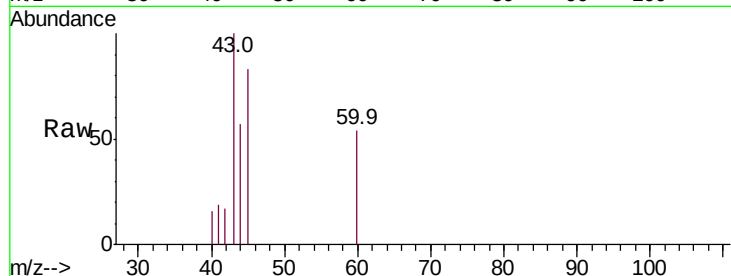
Tot Ion: 43 Resp: 3183

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

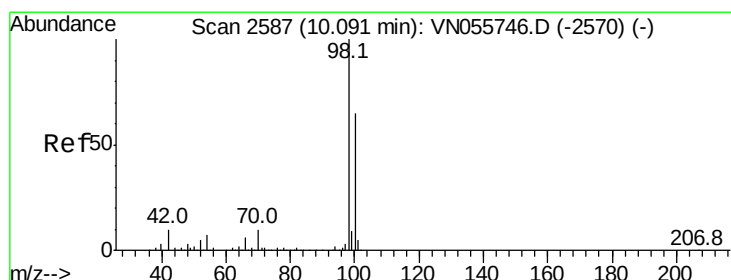
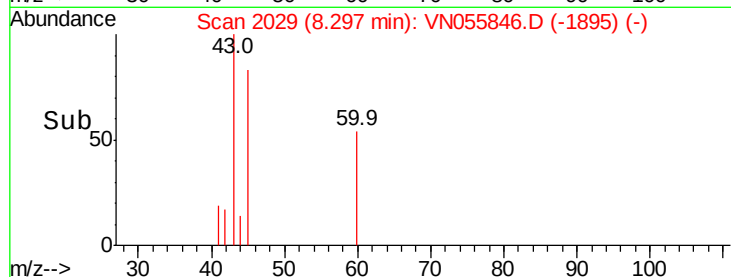
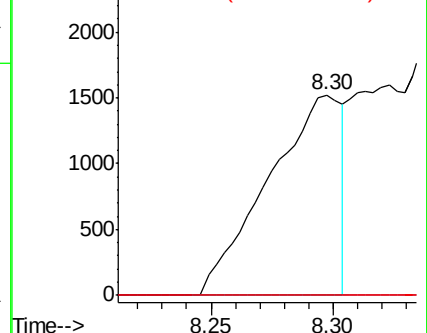
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 48.948 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055846.D

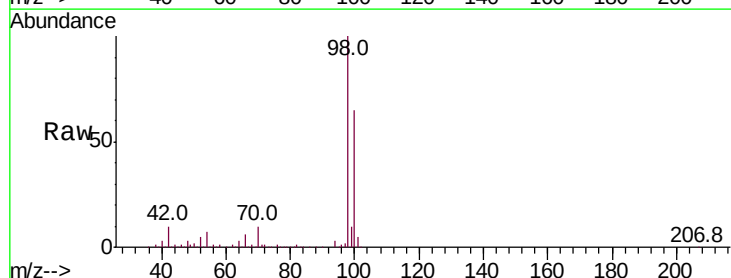
Acq: 28 May 2019 12:26

Tgt Ion: 98 Resp: 723446

Ion Ratio Lower Upper

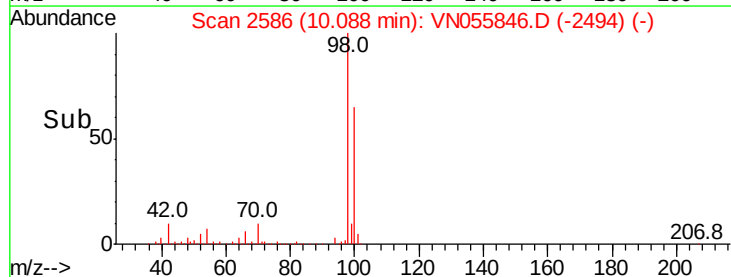
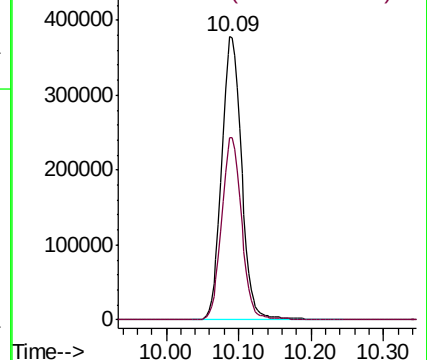
98 100

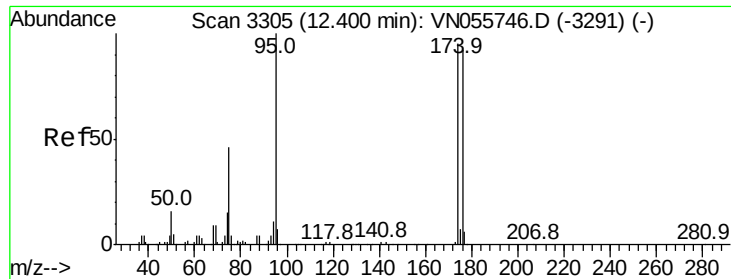
100 64.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 44.343 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055846.D

Acq: 28 May 2019 12:26

Instrument :

MSVOA_N

ClientSampleId :

MW2-R1-1

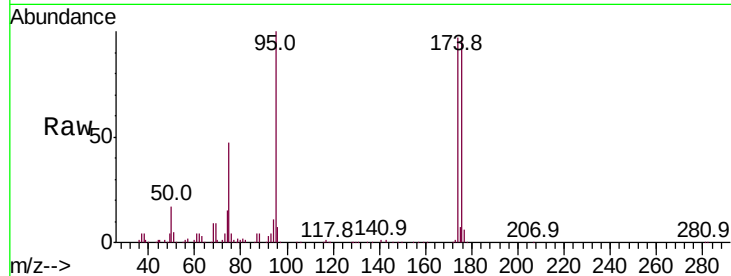
Tot Ion: 95 Resp: 224724

Ion Ratio Lower Upper

95 100

174 98.6 0.0 191.0

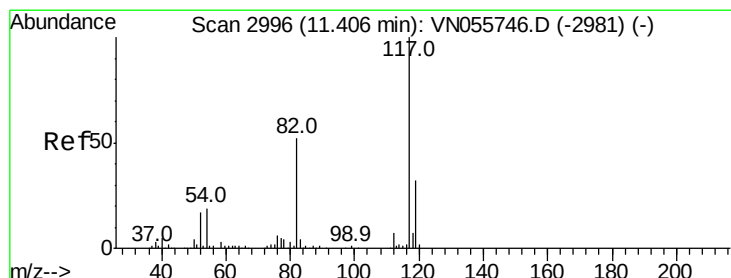
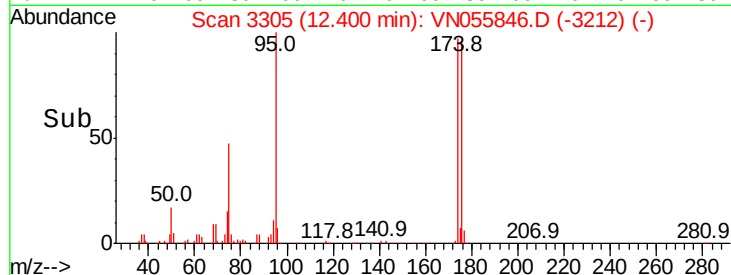
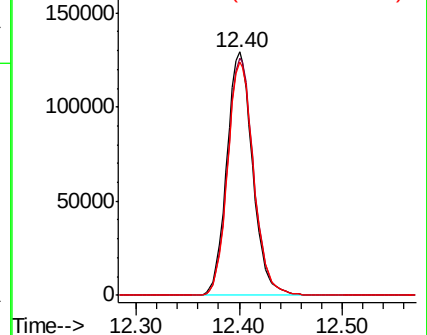
176 96.9 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055746.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055746.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055746.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055846.D

Acq: 28 May 2019 12:26

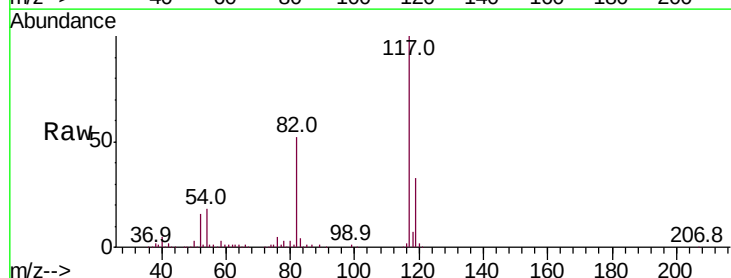
Tgt Ion: 117 Resp: 548020

Ion Ratio Lower Upper

117 100

82 51.7 41.8 62.8

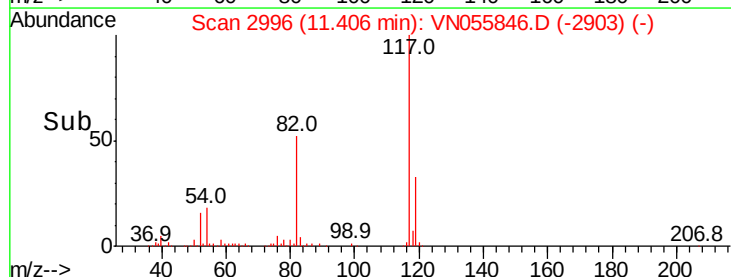
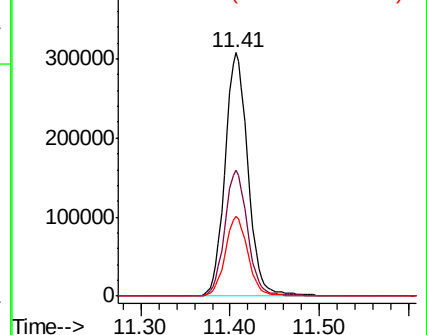
119 32.6 25.4 38.0

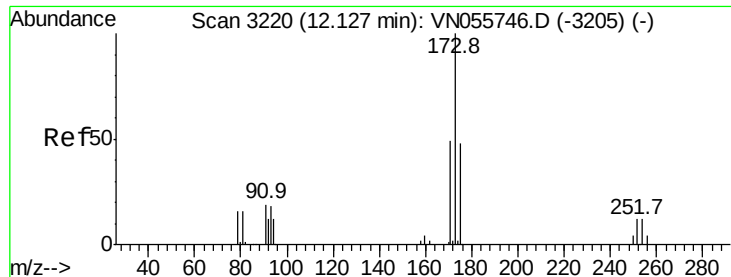


Abundance Ion 116.90 (116.60 to 117.60): VN055746.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055746.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055746.D (-2981) (-)





#71

Bromoform

Concen: 0.400 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055846.D

Acq: 28 May 2019 12:26

Instrument :

MSVOA_N

ClientSampleId :

MW2-R1-1

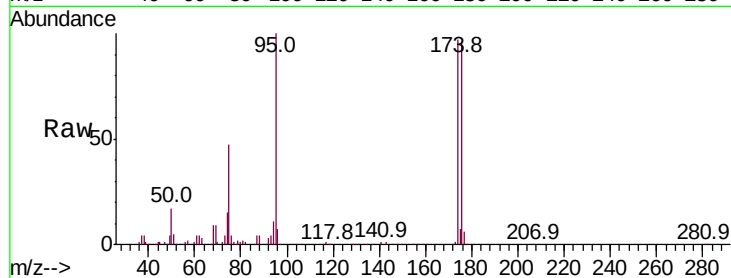
Tot Ion:173 Resp: 1491

Ion Ratio Lower Upper

173 100

175 899.3 24.3 72.8#

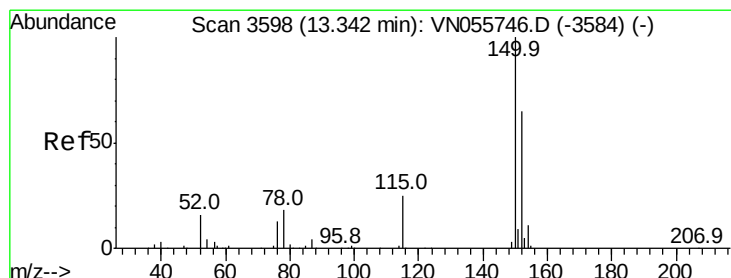
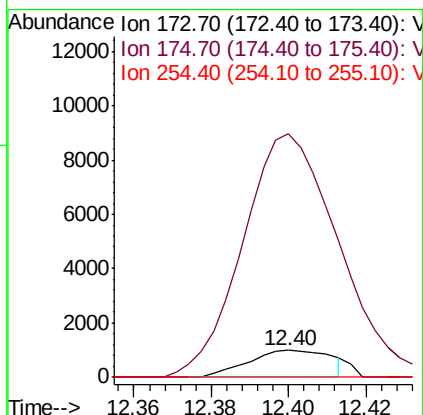
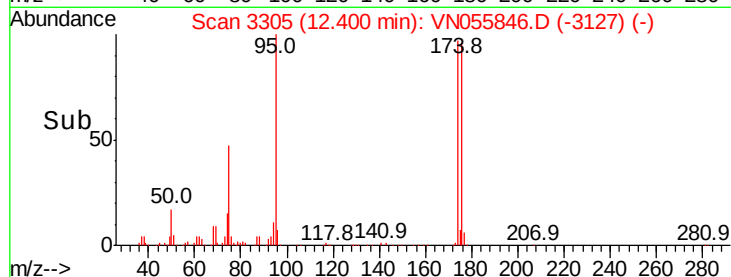
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055846.D

Acq: 28 May 2019 12:26

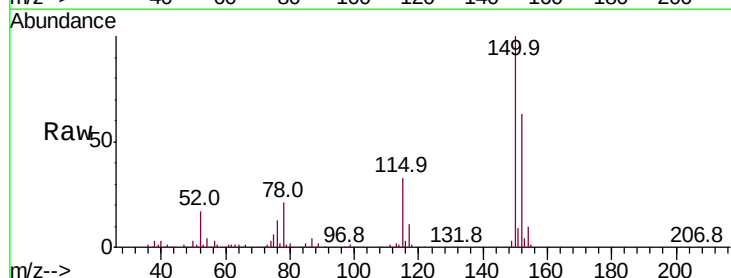
Tgt Ion:152 Resp: 184641

Ion Ratio Lower Upper

152 100

115 52.7 27.0 81.0

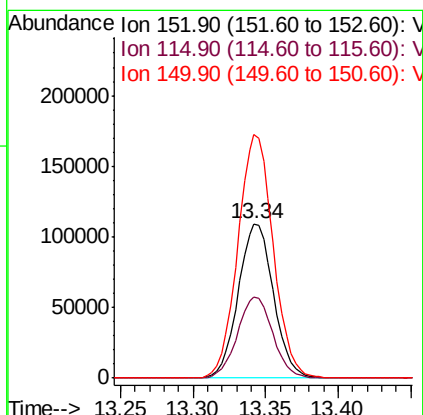
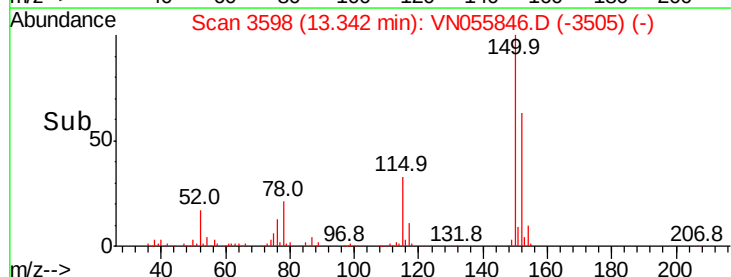
150 158.1 0.0 343.2

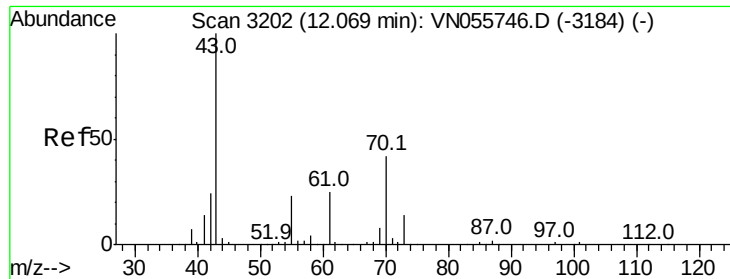


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN055846.D

Acq: 28 May 2019 12:26

Instrument :

MSVOA_N

ClientSampleId :

MW2-R1-1

Tot Ion: 43 Resp: 111

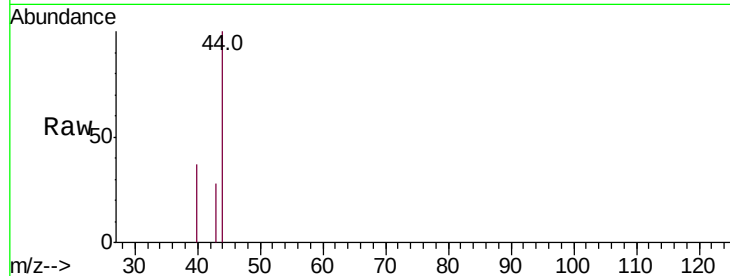
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

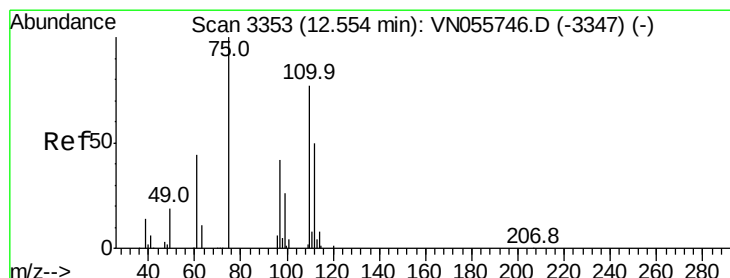
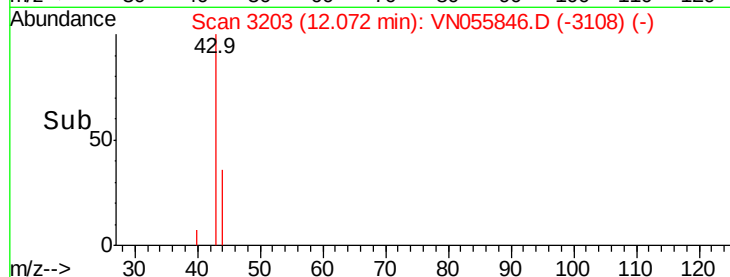
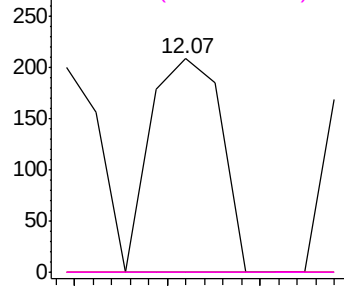


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 32.013 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055846.D

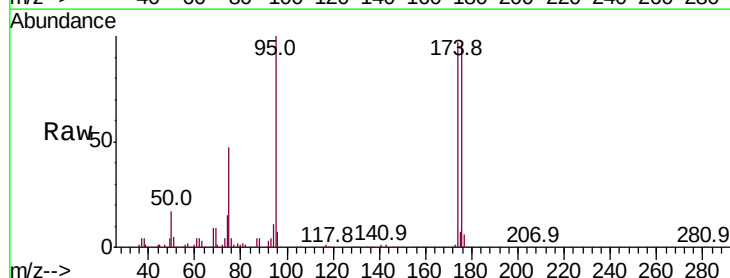
Acq: 28 May 2019 12:26

Tgt Ion: 75 Resp: 105381

Ion Ratio Lower Upper

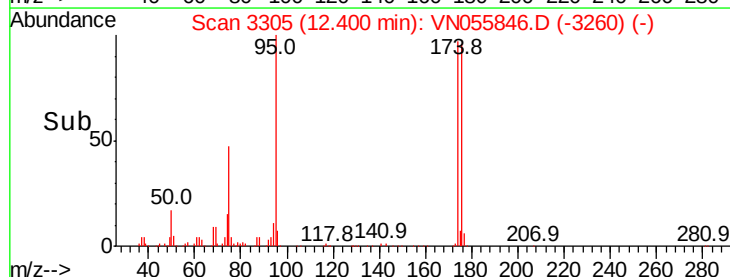
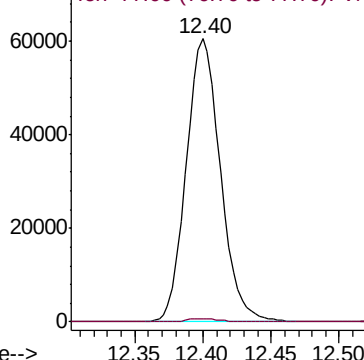
75 100

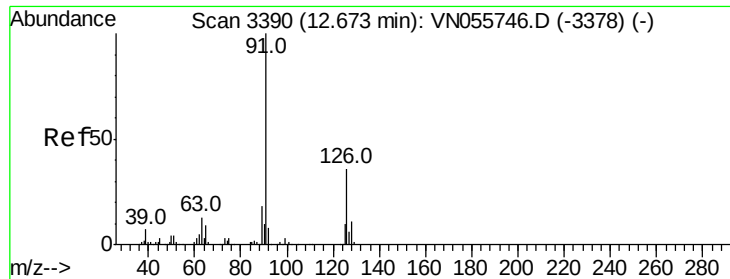
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.28 min

Lab File: VN055846.D

Acq: 28 May 2019 12:26

Instrument :

MSVOA_N

ClientSampleId :

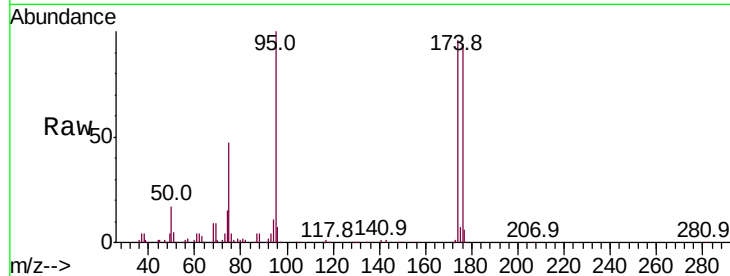
MW2-R1-1

Tot Ion: 91 Resp: 589

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.40

400

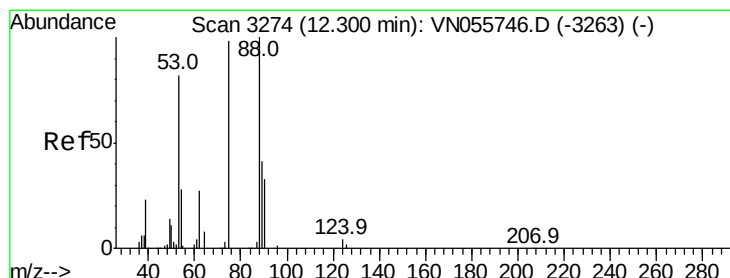
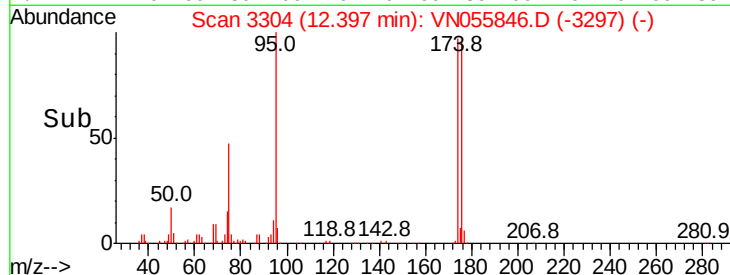
300

200

100

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 76.791 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055846.D

Acq: 28 May 2019 12:26

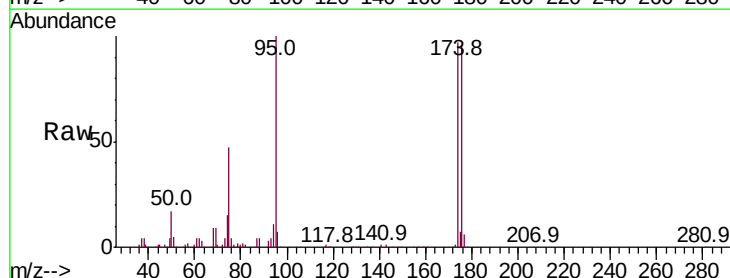
Tgt Ion: 75 Resp: 105381

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

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

80000

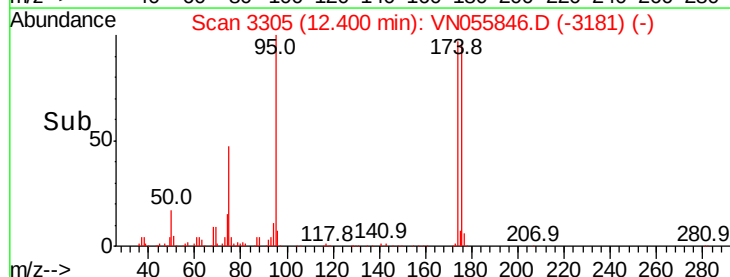
60000

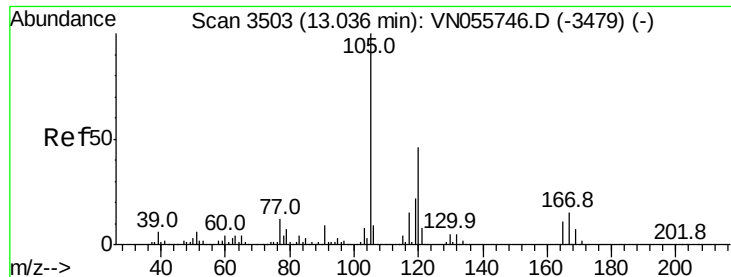
40000

20000

0

Time-->

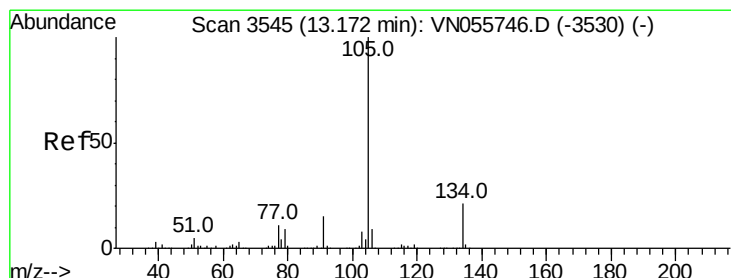
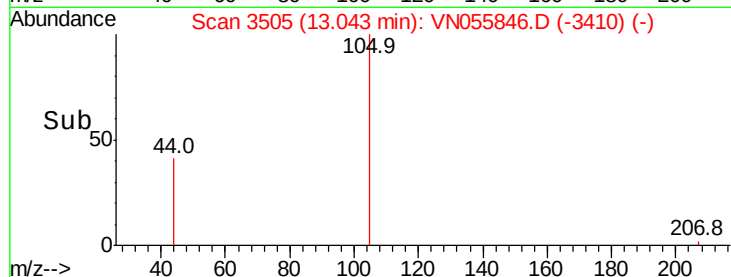
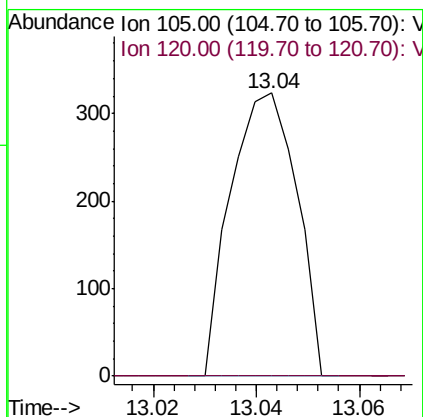
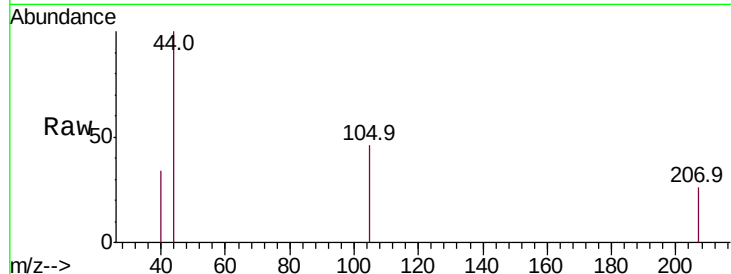




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.01 min
 Lab File: VN055846.D
 Acq: 28 May 2019 12:26

Instrument :
 MSVOA_N
 ClientSampleId :
 MW2-R1-1

Tot Ion:105 Resp: 286
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.0 69.0#



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3505
 Delta R.T. -0.13 min
 Lab File: VN055846.D
 Acq: 28 May 2019 12:26

Tgt Ion:105 Resp: 286
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#

