

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055828.D
 Acq On : 25 May 2019 5:29
 Operator : JC/SP
 Sample : K3037-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW2-R1-1

Quant Time: May 26 22:48:24 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

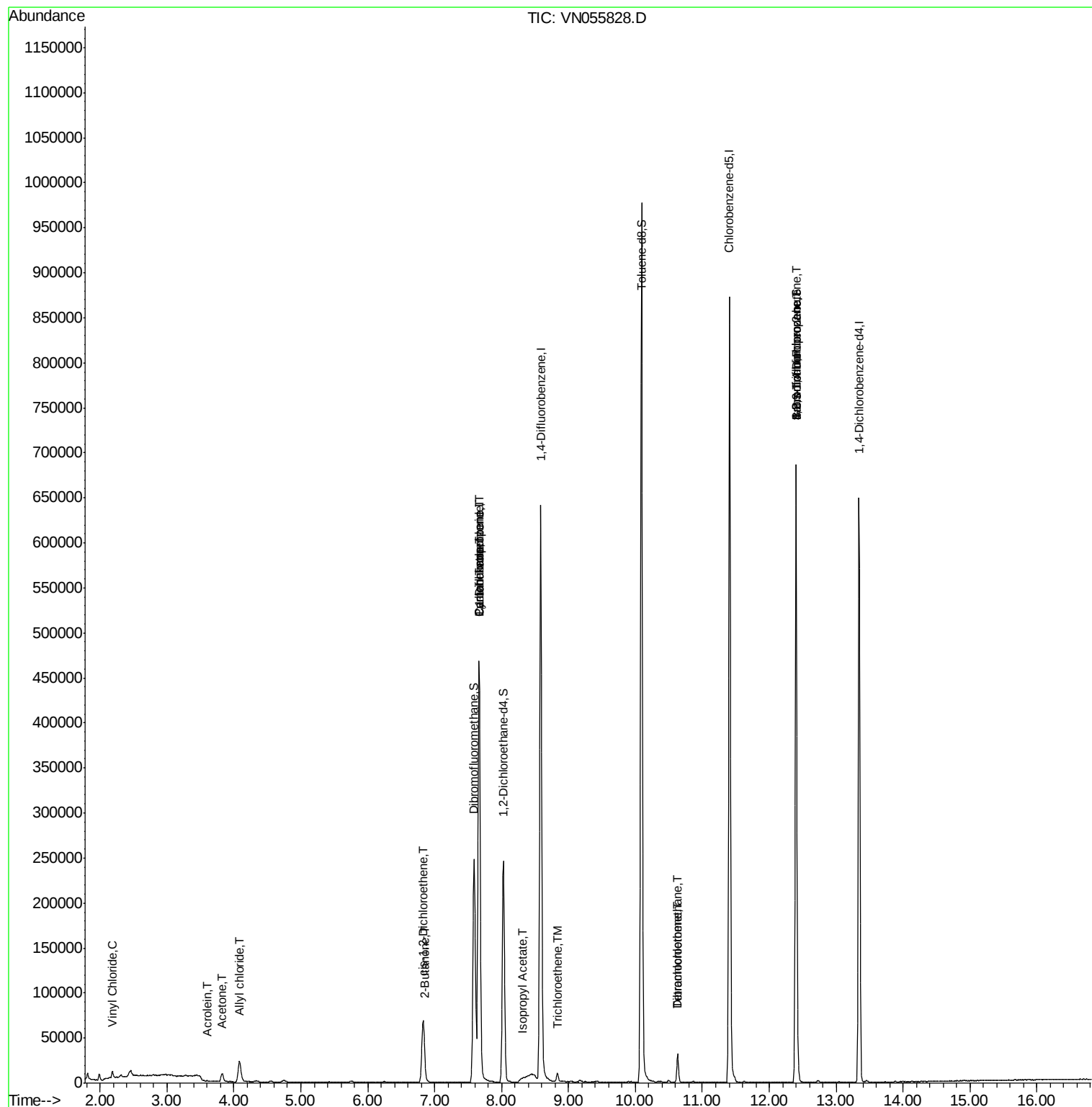
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	449170	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	630763	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	562807	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	201405	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	208989	45.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.10%	
35) Dibromofluoromethane	7.59	113	190936	47.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.76%	
50) Toluene-d8	10.09	98	737446	48.21	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.42%	
62) 4-Bromofluorobenzene	12.40	95	236894	45.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.32%	
Target Compounds				Qvalue		
4) Vinyl Chloride	2.18	62	6414	1.420	ug/l	96
13) Acrolein	3.61	56	161	0.254	ug/l #	37
14) Allyl chloride	4.09	41	4201	0.642	ug/l #	71
16) Acetone	3.82	43	16227	7.958	ug/l	94
18) Methyl Acetate	4.34	43	2817	Below Cal	#	80
25) 2-Butanone	6.86	43	2129	0.748	ug/l #	86
27) cis-1,2-Dichloroethene	6.83	96	48707	10.173	ug/l	90
31) Cyclohexane	7.66	56	6193	0.889	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25277	4.598	ug/l #	48
38) Carbon Tetrachloride	7.66	117	36307	6.341	ug/l #	15
43) Isopropyl Acetate	8.32	43	5518	0.618	ug/l #	53
44) Trichloroethene	8.83	130	3948	0.855	ug/l	97
60) Dibromochloromethane	10.63	129	7180	1.477	ug/l #	11
64) Tetrachloroethene	10.63	164	8356	1.760	ug/l	99
71) Bromoform	12.40	173	1473	0.384	ug/l #	1
73) Isopropylbenzene	12.40	105	168	Below Cal	#	48
74) N-amyl acetate	12.04	43	312	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	109642	30.380	ug/l #	100
79) 2-Chlorotoluene	12.60	91	61	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	109642	73.246	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	356	Below Cal	#	56
85) sec-Butylbenzene	13.04	105	356	Below Cal	#	55

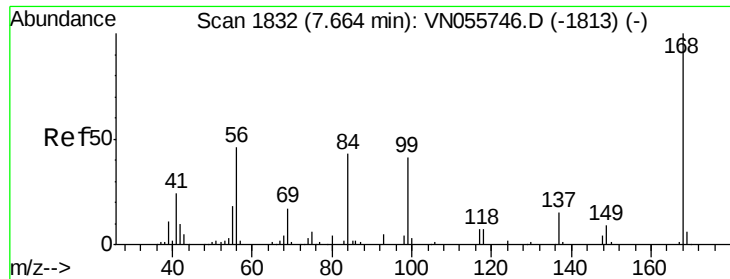
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VN055828.D

Acq: 25 May 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

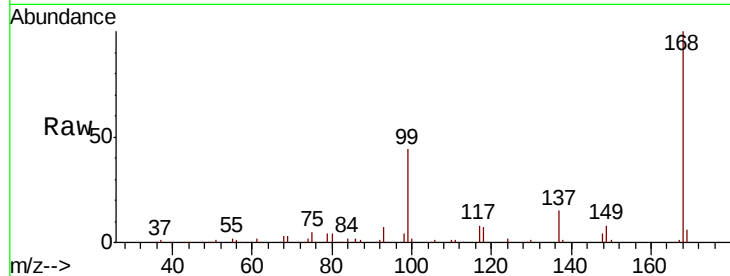
MW2-R1-1

Tot Ion:168 Resp: 449170

Ion Ratio Lower Upper

168 100

99 44.3 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

200000

150000

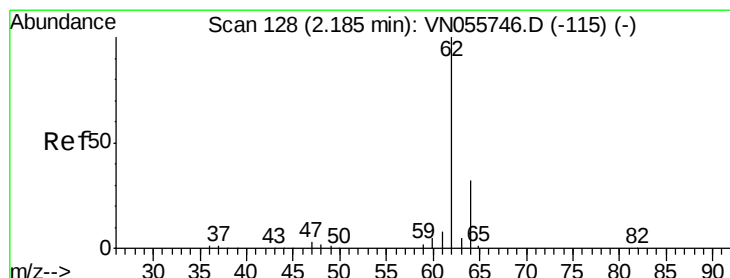
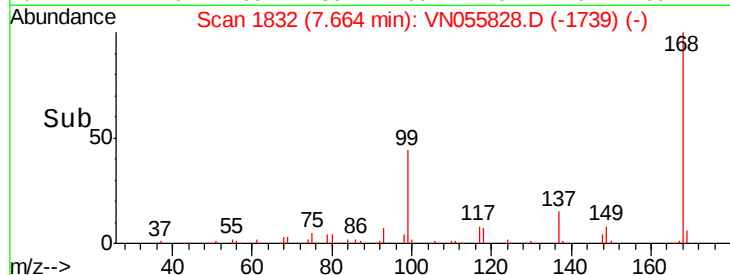
100000

50000

0

7.60 7.70 7.80

Time-->



#4

Vinyl Chloride

Concen: 1.420 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055828.D

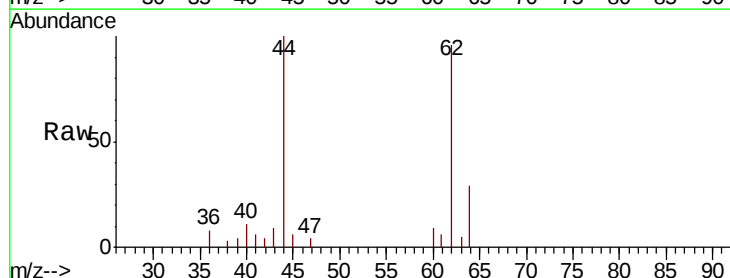
Acq: 25 May 2019 5:29

Tgt Ion: 62 Resp: 6414

Ion Ratio Lower Upper

62 100

64 29.9 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

2.18

5000

4000

3000

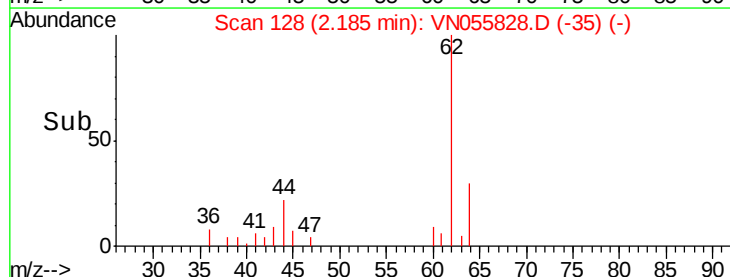
2000

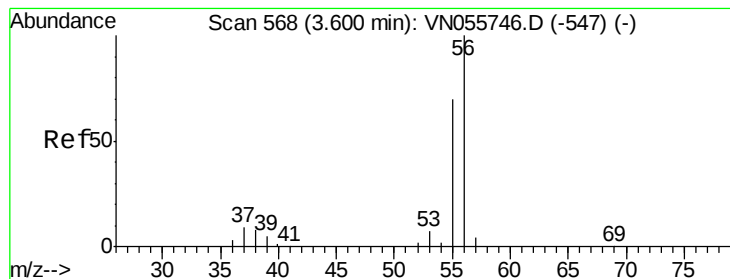
1000

0

2.15 2.20

Time-->





#13

Acrolein

Concen: 0.254 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.01 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

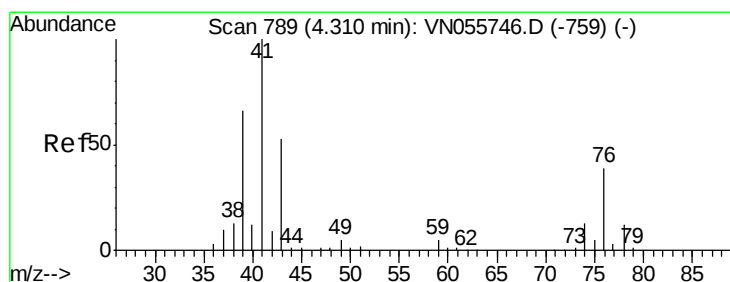
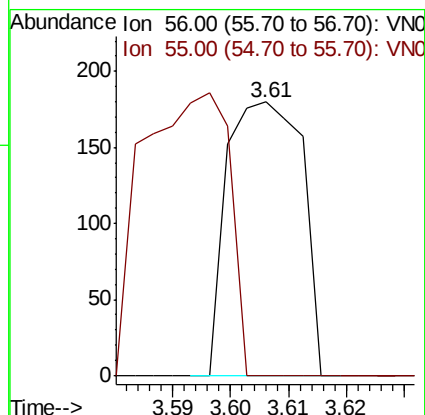
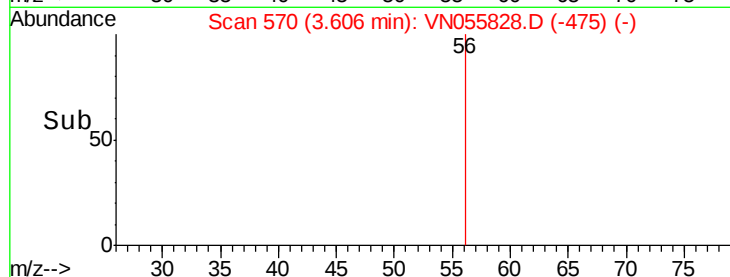
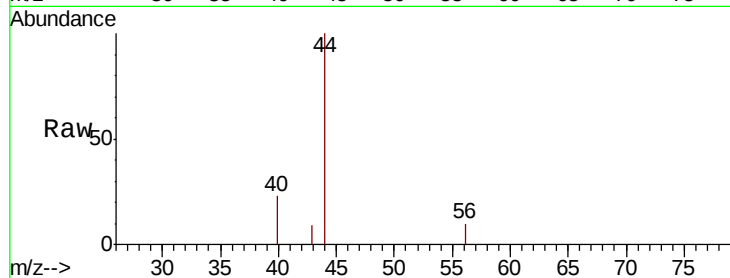
MW2-R1-1

Tot Ion: 56 Resp: 161

Ion Ratio Lower Upper

56 100

55 120.5 55.4 83.2#



#14

Allyl chloride

Concen: 0.642 ug/l

RT: 4.09 min Scan# 719

Delta R.T. -0.23 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

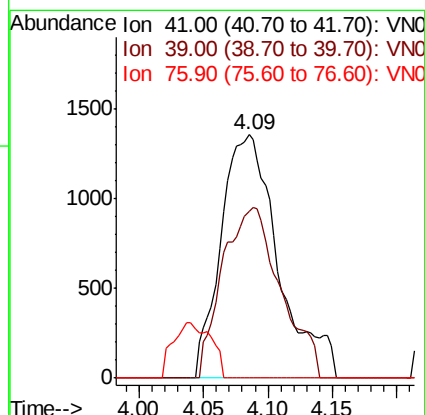
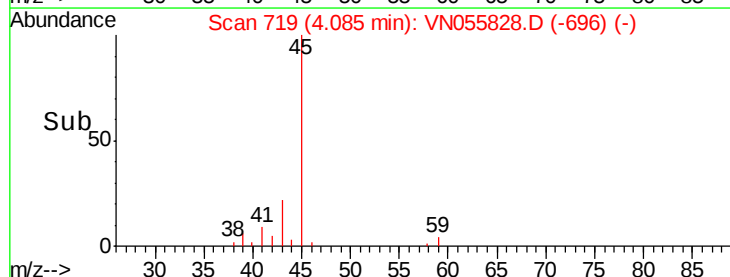
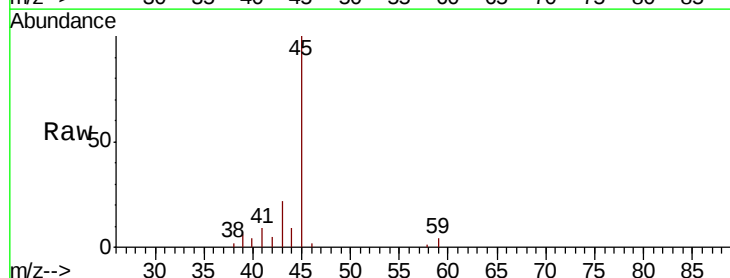
Tgt Ion: 41 Resp: 4201

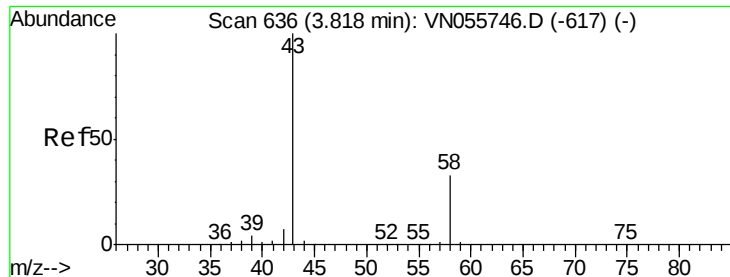
Ion Ratio Lower Upper

41 100

39 70.9 50.0 75.0

76 0.0 28.2 42.2#





#16

Acetone

Concen: 7.958 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

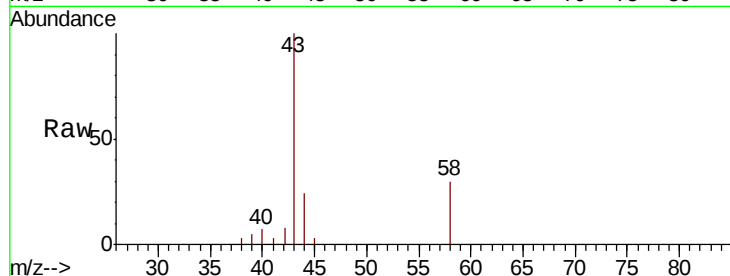
MW2-R1-1

Tot Ion: 43 Resp: 16227

Ion Ratio Lower Upper

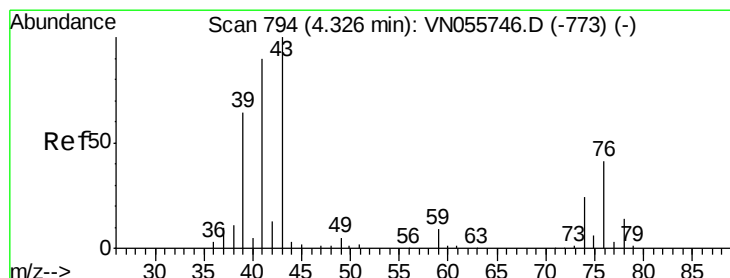
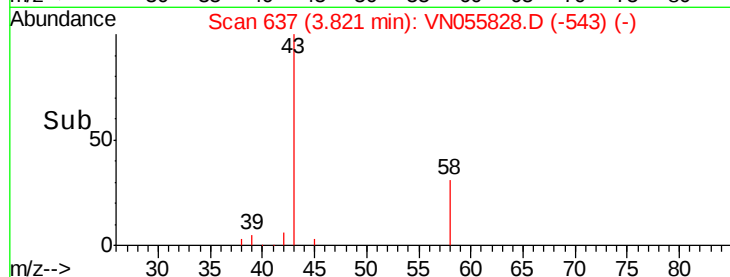
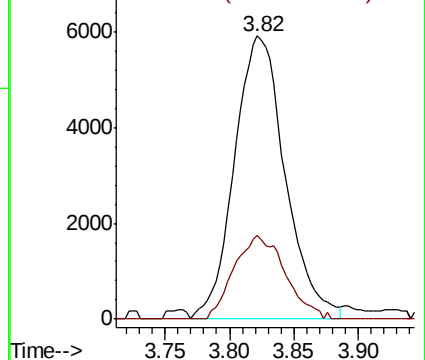
43 100

58 29.6 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055828.D

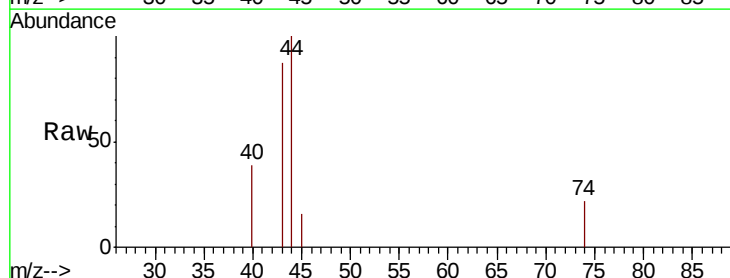
Acq: 25 May 2019 5:29

Tgt Ion: 43 Resp: 2817

Ion Ratio Lower Upper

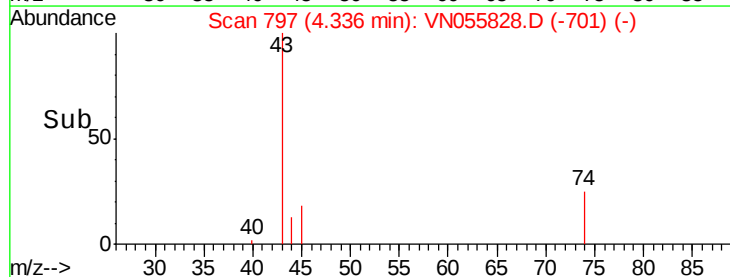
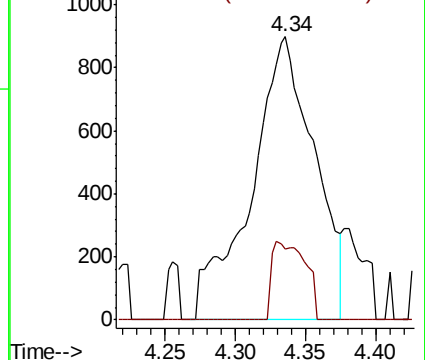
43 100

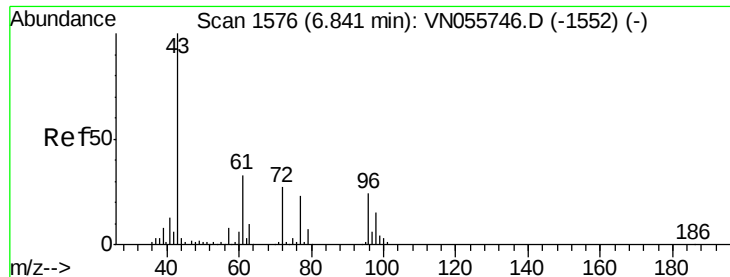
74 14.4 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#25

2-Butanone

Concen: 0.748 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.02 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

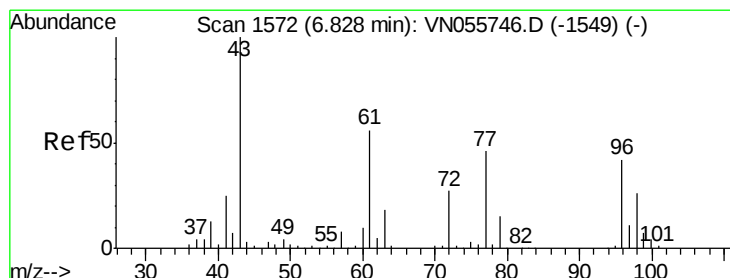
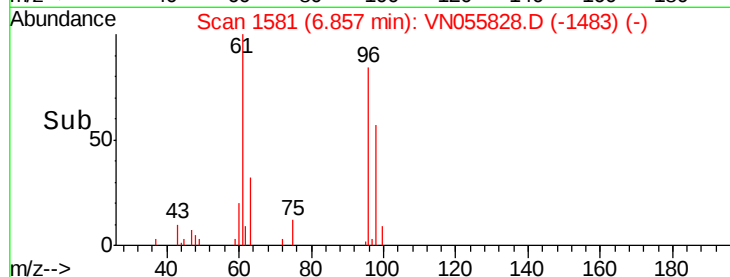
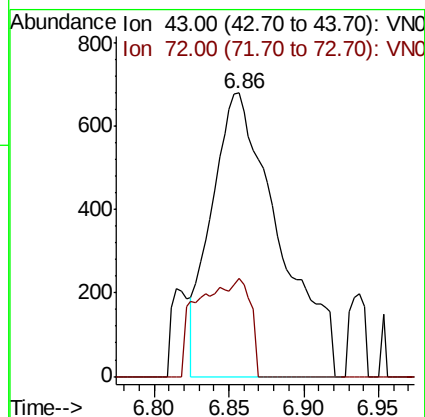
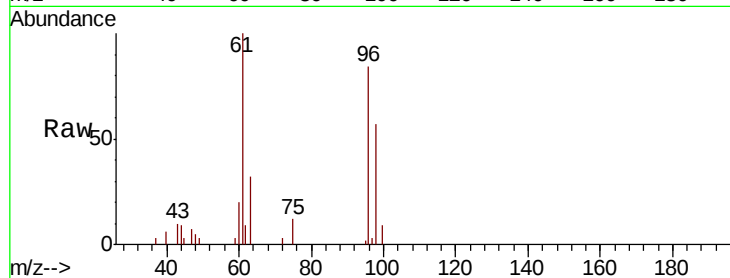
MW2-R1-1

Tot Ion: 43 Resp: 2129

Ion Ratio Lower Upper

43 100

72 34.6 21.9 32.9#



#27

cis-1,2-Dichloroethene

Concen: 10.173 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

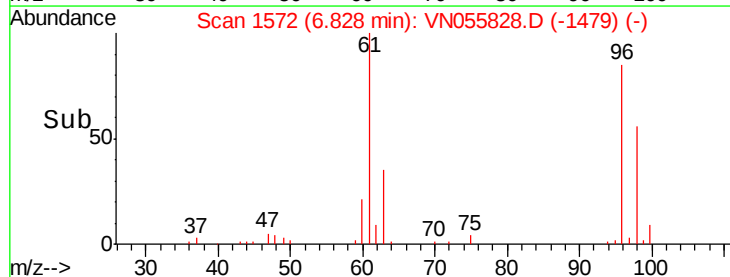
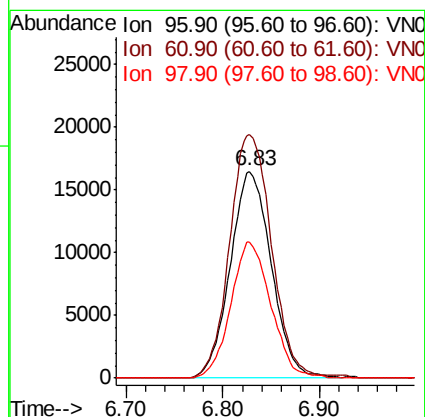
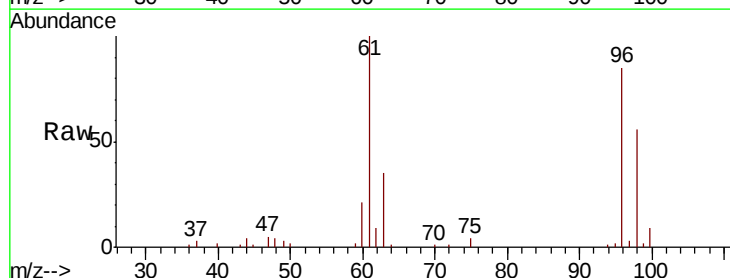
Tgt Ion: 96 Resp: 48707

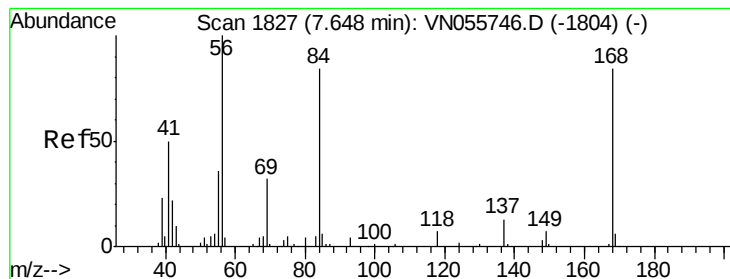
Ion Ratio Lower Upper

96 100

61 120.4 0.0 275.8

98 64.1 0.0 128.4





#31

Cyclohexane

Concen: 0.889 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

MW2-R1-1

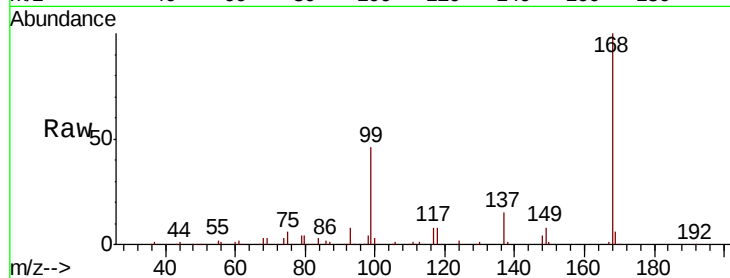
Tot Ion: 56 Resp: 6193

Ion Ratio Lower Upper

56 100

69 202.2 25.6 38.4#

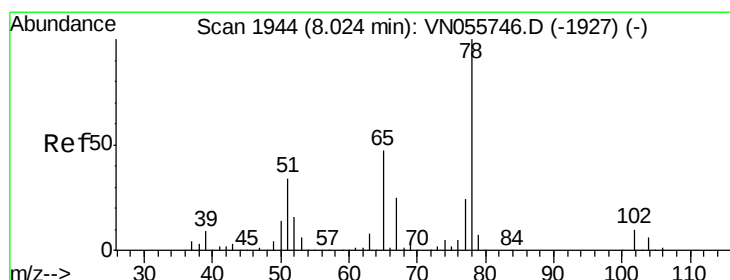
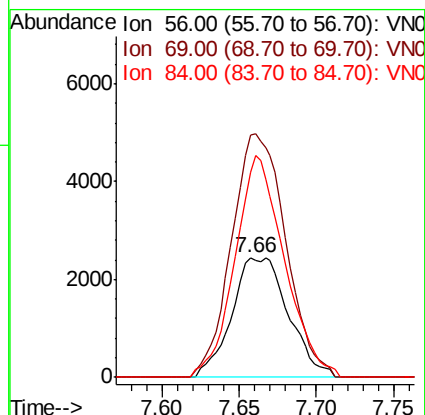
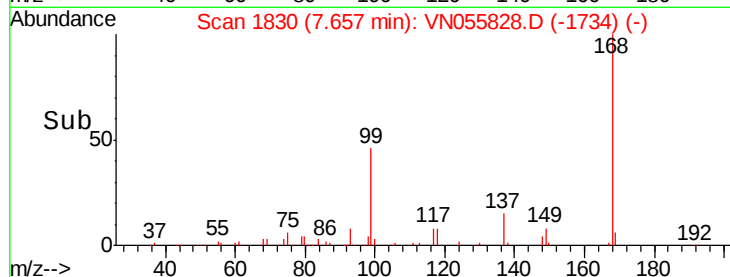
84 170.8 67.4 101.0#



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: 45.054 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055828.D

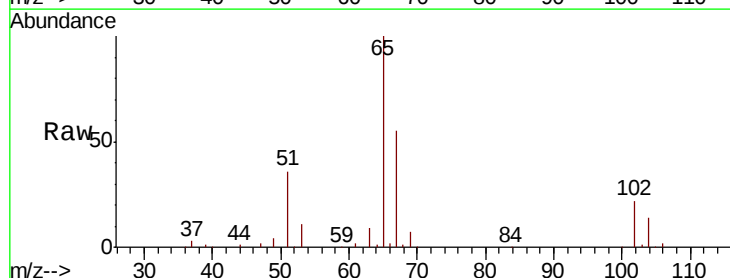
Acq: 25 May 2019 5:29

Tgt Ion: 65 Resp: 208989

Ion Ratio Lower Upper

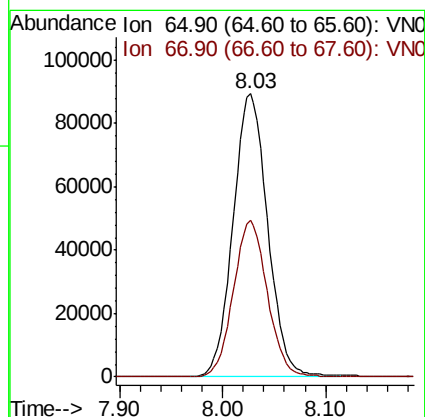
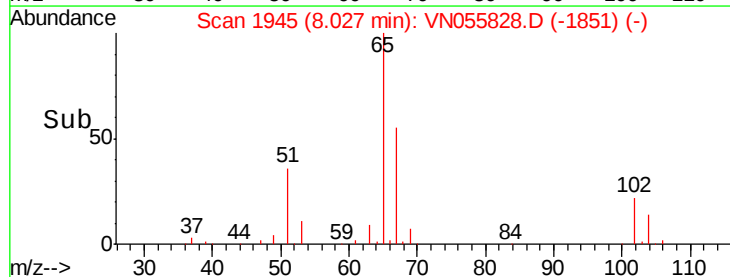
65 100

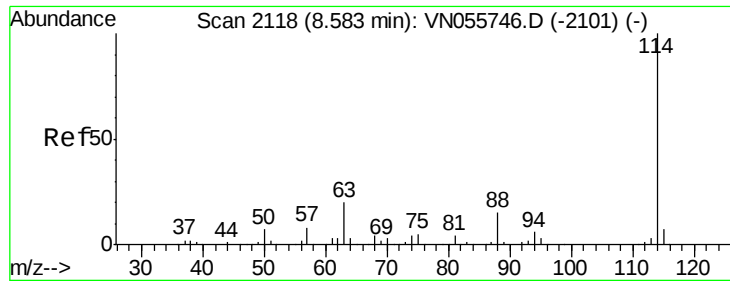
67 54.2 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

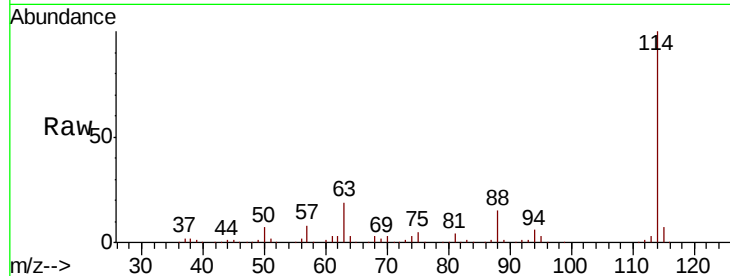




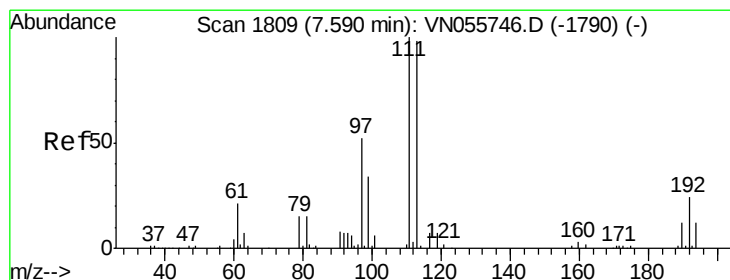
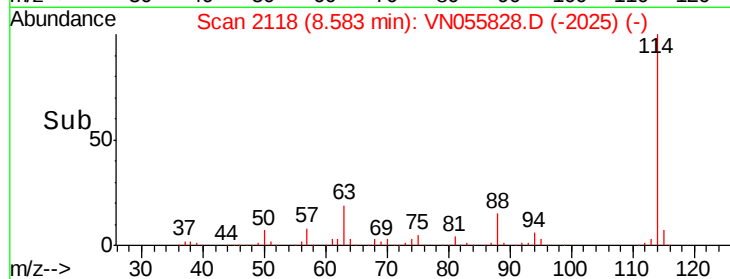
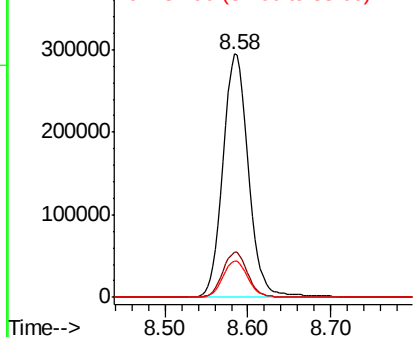
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055828.D
 Acq: 25 May 2019 5:29

Instrument :
 MSVOA_N
 ClientSampleId :
 MW2-R1-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	39.2
88	14.9	0.0	31.0

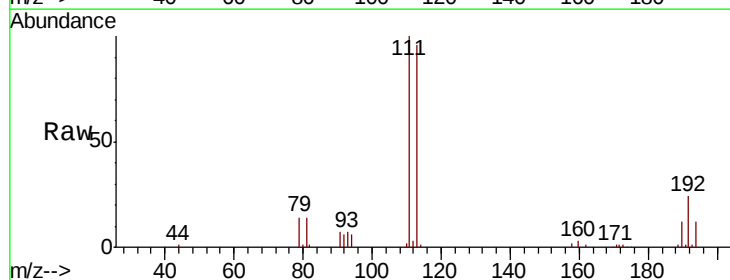


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

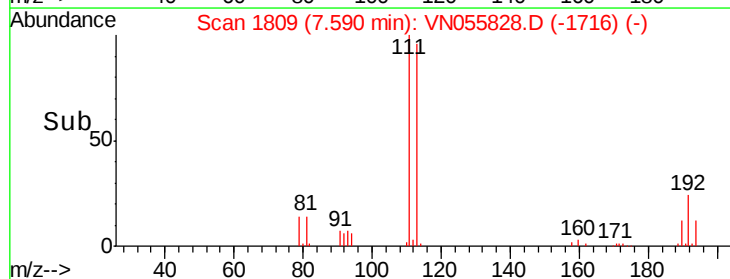
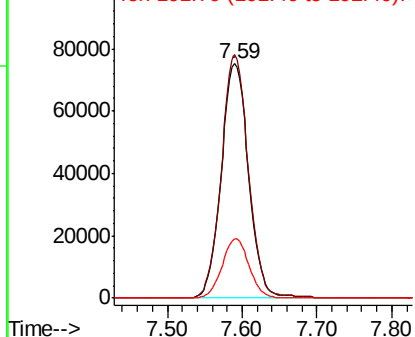


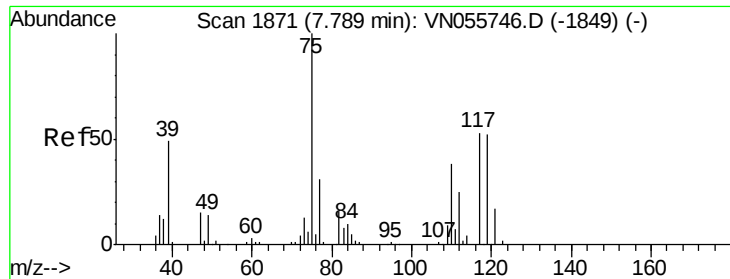
#35
 Dibromofluoromethane
 Concen: 47.879 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055828.D
 Acq: 25 May 2019 5:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.9	122.9
192	24.9	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

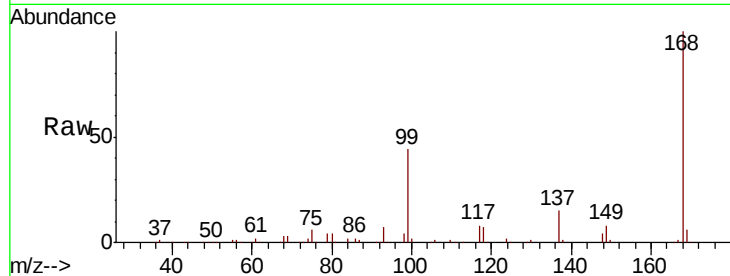




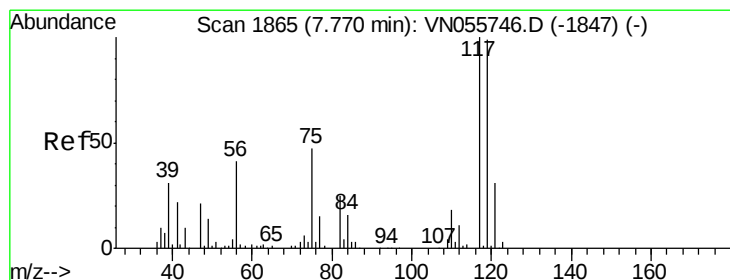
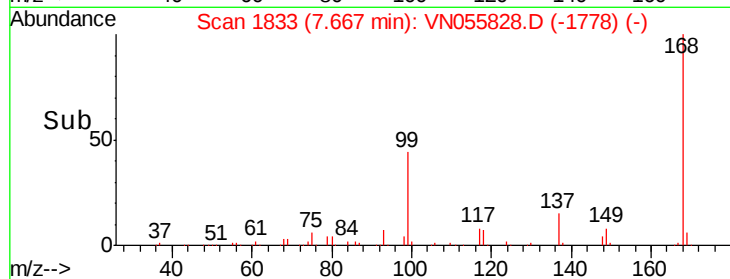
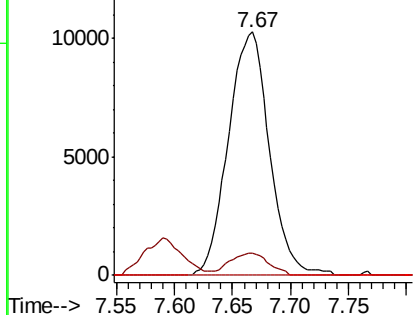
#36
 1,1-Dichloropropene
 Concen: 4.598 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055828.D
 Acq: 25 May 2019 5:29

Instrument :
 MSVOA_N
 ClientSampled :
 MW2-R1-1

Tot Ion: 75 Resp: 25277
 Ion Ratio Lower Upper
 75 100
 110 8.7 19.0 57.0#
 77 0.0 25.1 37.7#

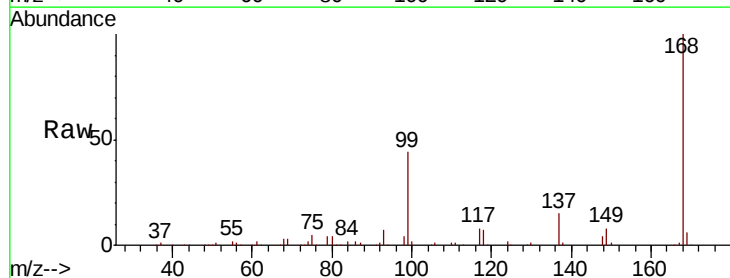


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

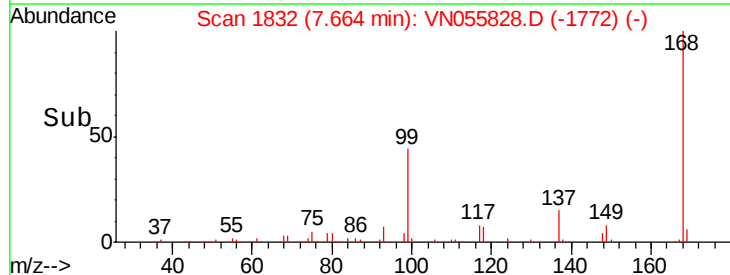
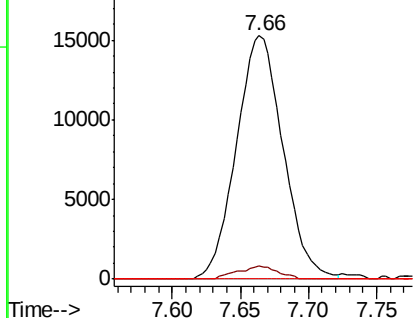


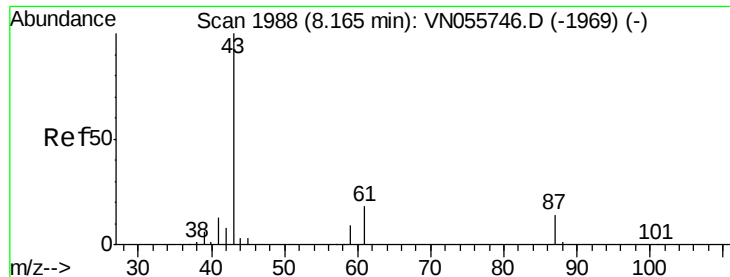
#38
 Carbon Tetrachloride
 Concen: 6.341 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055828.D
 Acq: 25 May 2019 5:29

Tgt Ion: 117 Resp: 36307
 Ion Ratio Lower Upper
 117 100
 119 5.3 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: 0.618 ug/l

RT: 8.32 min Scan# 2036

Delta R.T. 0.15 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

MW2-R1-1

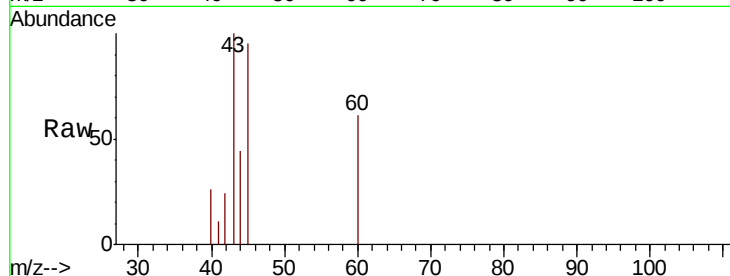
Tot Ion: 43 Resp: 5518

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#

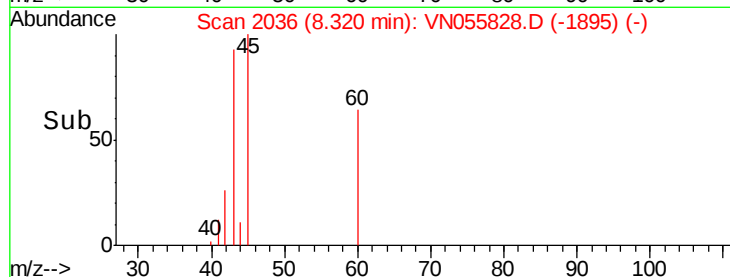


Abundance Ion 43.00 (42.70 to 43.70): VN055746.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN055746.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN055746.D (-1969) (-)

Time-->

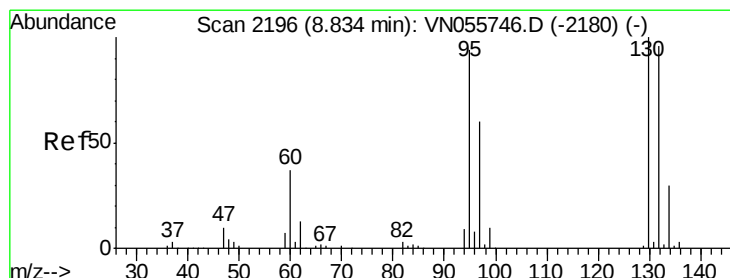


Abundance Ion 43.00 (42.70 to 43.70): VN055828.D (-1895) (-)

Ion 61.00 (60.70 to 61.70): VN055828.D (-1895) (-)

Ion 87.00 (86.70 to 87.70): VN055828.D (-1895) (-)

Time-->



#44

Trichloroethene

Concen: 0.855 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN055828.D

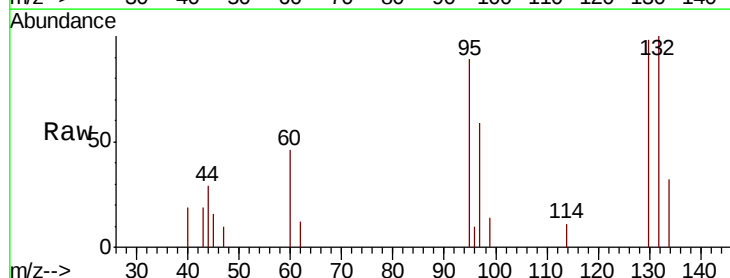
Acq: 25 May 2019 5:29

Tgt Ion: 130 Resp: 3948

Ion Ratio Lower Upper

130 100

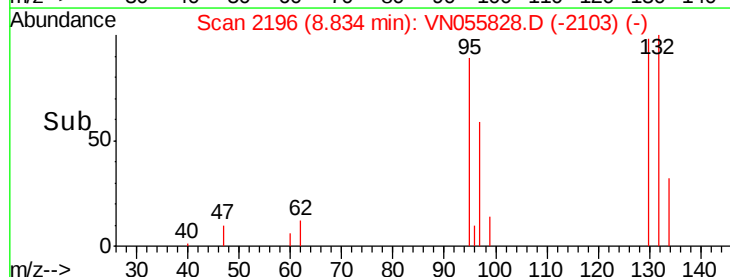
95 91.1 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): VN055746.D (-2180) (-)

Ion 94.90 (94.60 to 95.60): VN055746.D (-2180) (-)

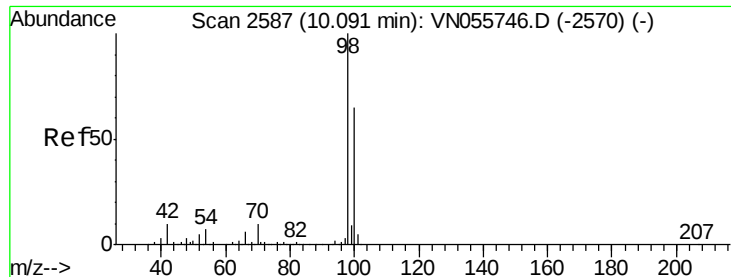
Time-->



Abundance Ion 129.80 (129.50 to 130.50): VN055828.D (-2103) (-)

Ion 94.90 (94.60 to 95.60): VN055828.D (-2103) (-)

Time-->



#50

Toluene-d8

Concen: 48.208 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

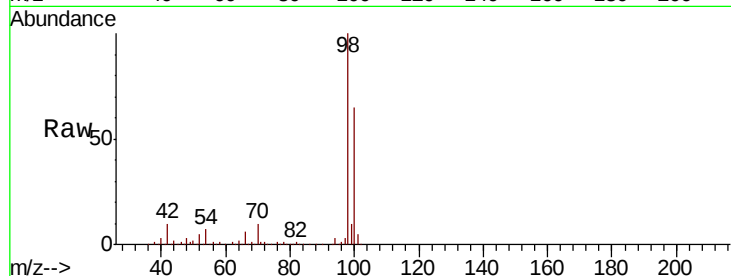
MW2-R1-1

Tot Ion: 98 Resp: 737446

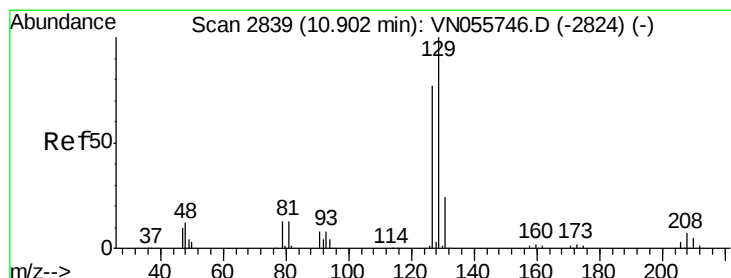
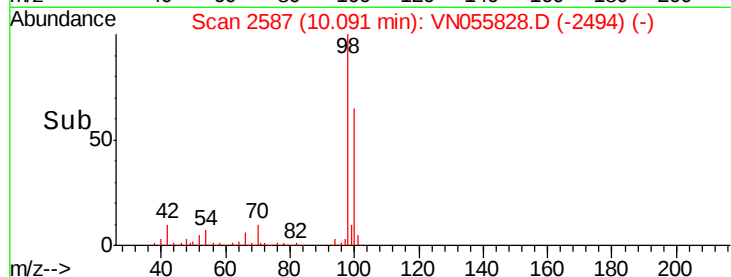
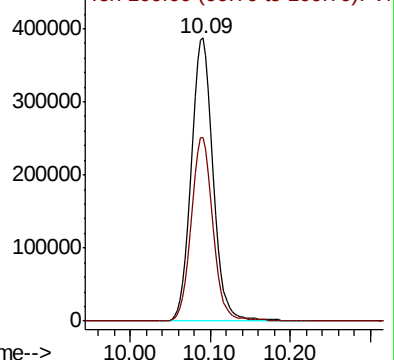
Ion Ratio Lower Upper

98 100

100 64.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055828.D (-2494) (-)



#60

Dibromochloromethane

Concen: 1.477 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN055828.D

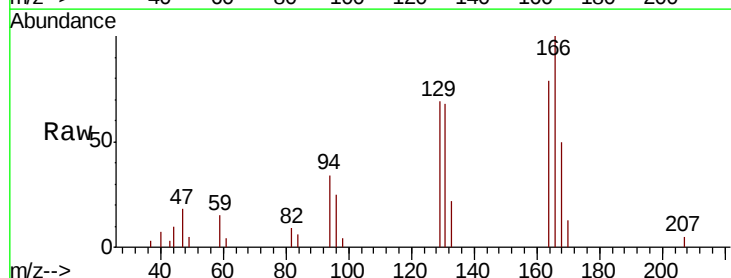
Acq: 25 May 2019 5:29

Tgt Ion: 129 Resp: 7180

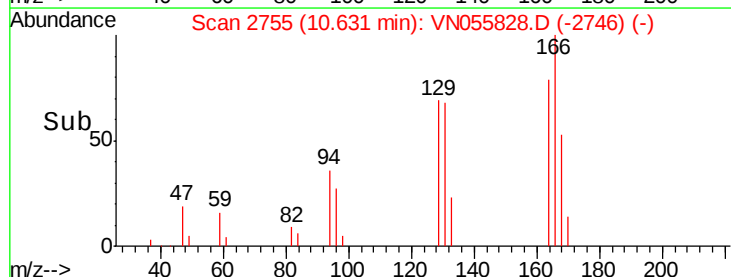
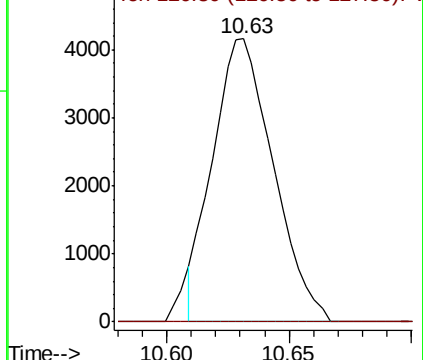
Ion Ratio Lower Upper

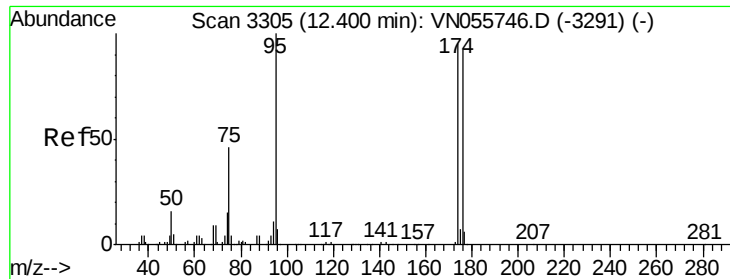
129 100

127 0.0 38.1 114.3#



Abundance Ion 128.80 (128.50 to 129.50): VN055828.D (-2746) (-)

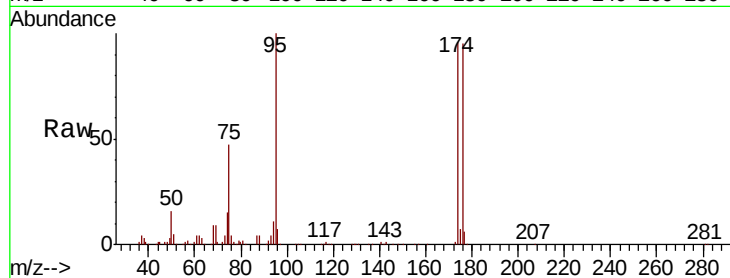




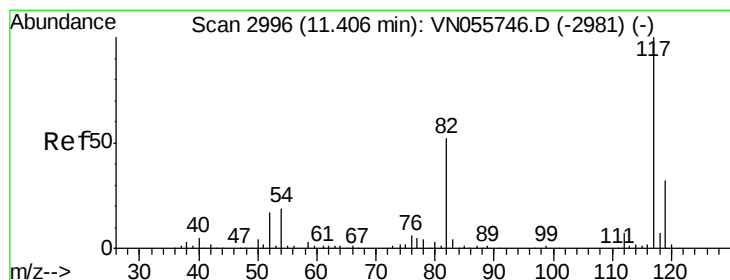
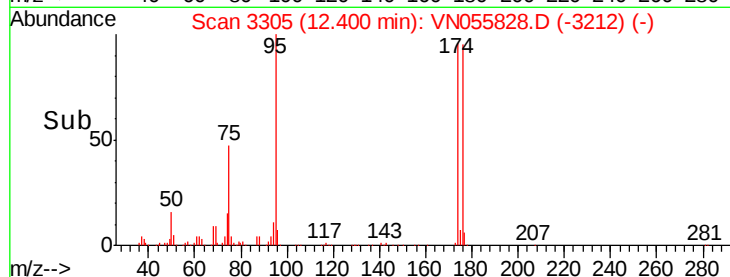
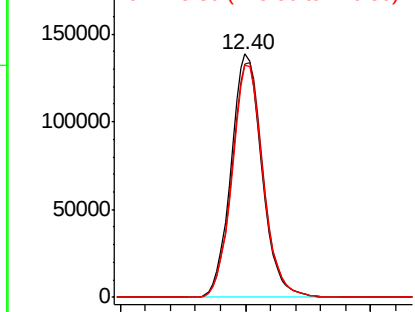
#62
4-Bromofluorobenzene
Concen: 45.164 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055828.D
Acq: 25 May 2019 5:29

Instrument :
MSVOA_N
ClientSampleId :
MW2-R1-1

Tot Ion: 95 Resp: 236894
Ion Ratio Lower Upper
95 100
174 97.9 0.0 191.0
176 95.3 0.0 185.2

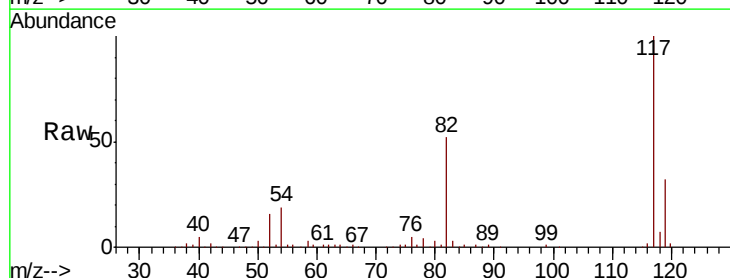


Abundance Ion 94.90 (94.60 to 95.60): VN0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

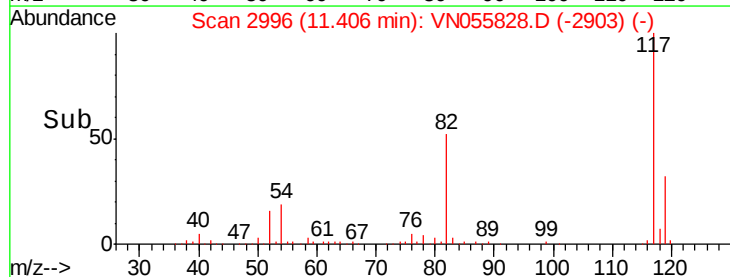
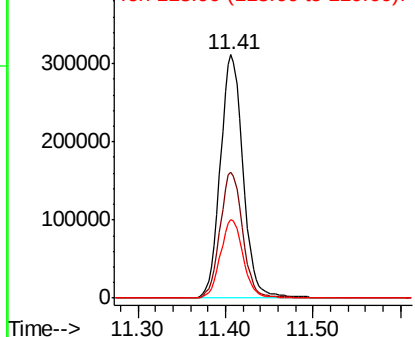


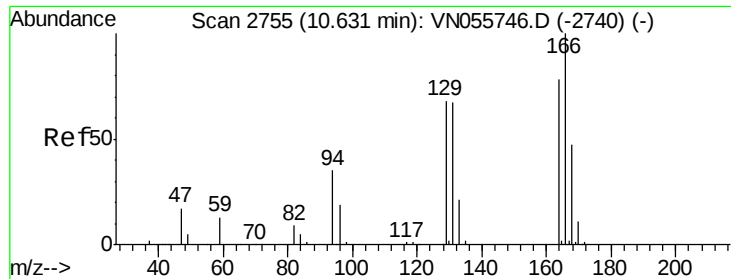
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055828.D
Acq: 25 May 2019 5:29

Tgt Ion: 117 Resp: 562807
Ion Ratio Lower Upper
117 100
82 52.0 41.8 62.8
119 32.4 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 1.760 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

MW2-R1-1

Tot Ion:164 Resp: 8356

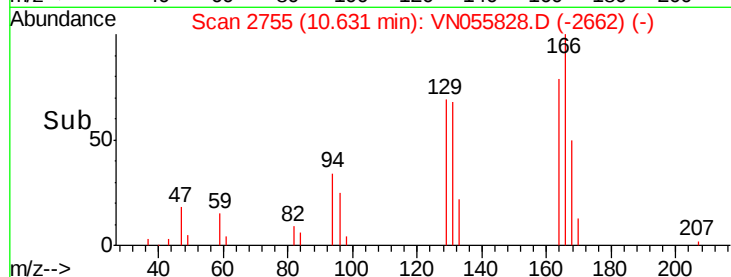
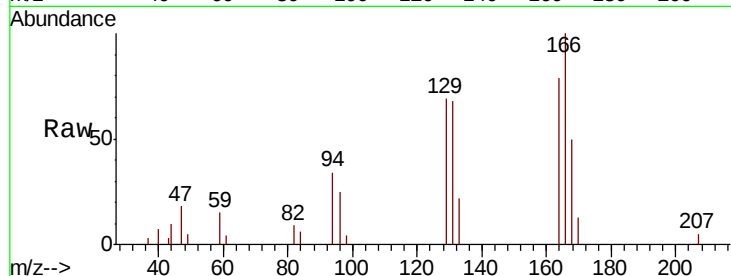
Ion Ratio Lower Upper

164 100

166 127.1 103.0 154.6

129 87.9 70.6 105.8

131 86.5 68.6 102.8

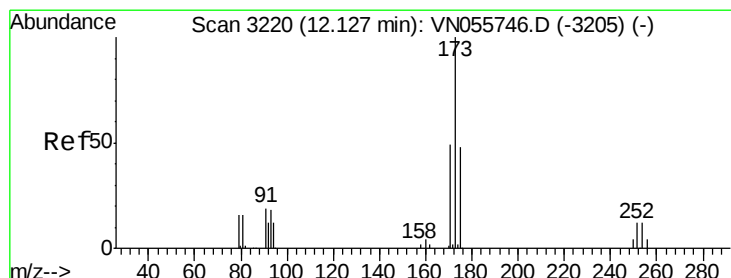
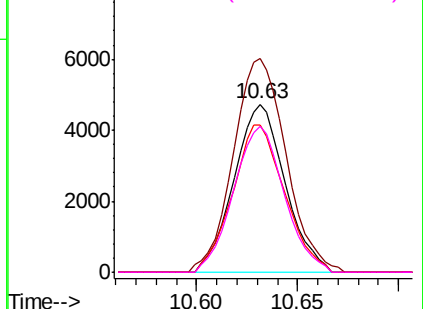


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.384 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

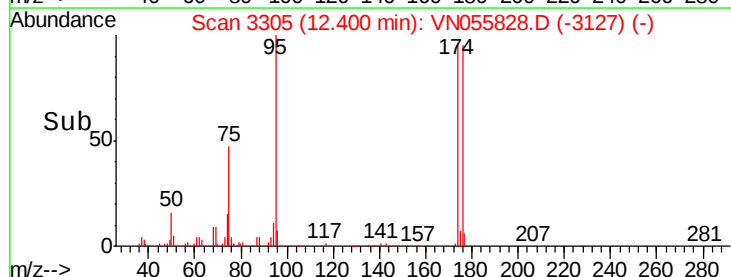
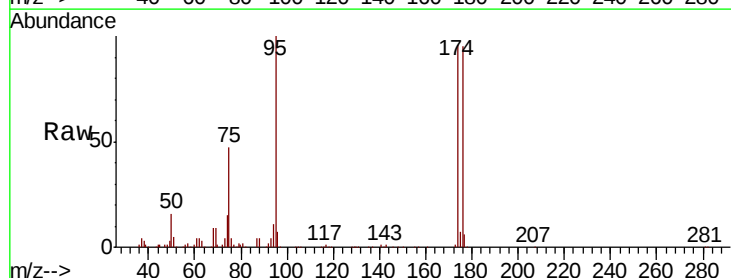
Tgt Ion:173 Resp: 1473

Ion Ratio Lower Upper

173 100

175 1002.2 24.3 72.8#

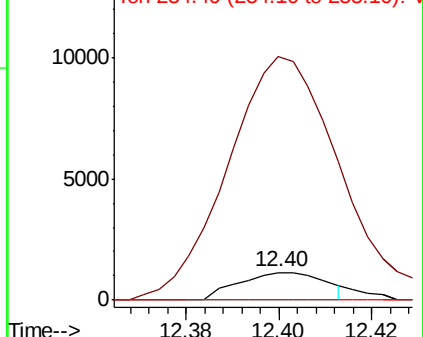
254 0.0 0.0 0.0

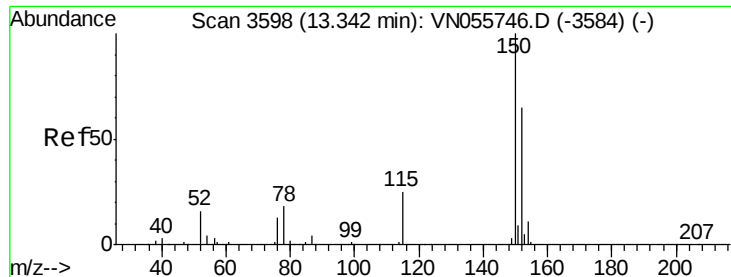


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN055828.D

Acq: 25 May 2019 5:29

Instrument :

MSVOA_N

ClientSampleId :

MW2-R1-1

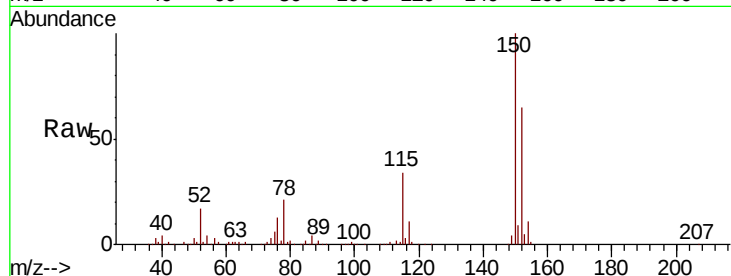
Tot Ion:152 Resp: 201405

Ion Ratio Lower Upper

152 100

115 52.3 27.0 81.0

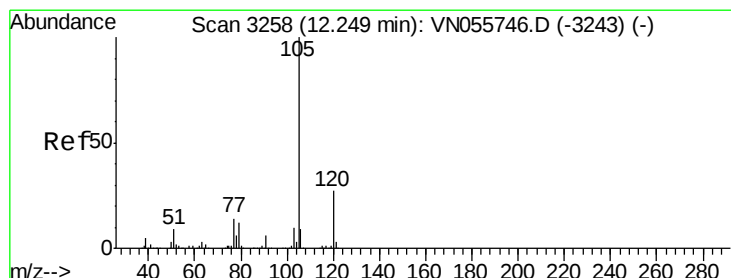
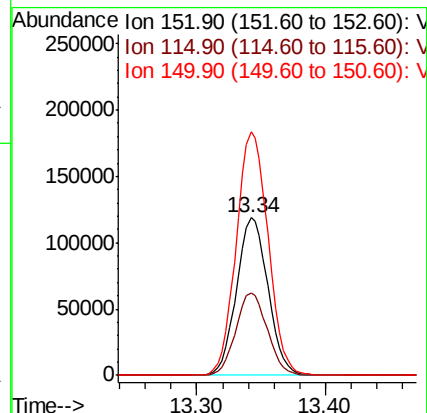
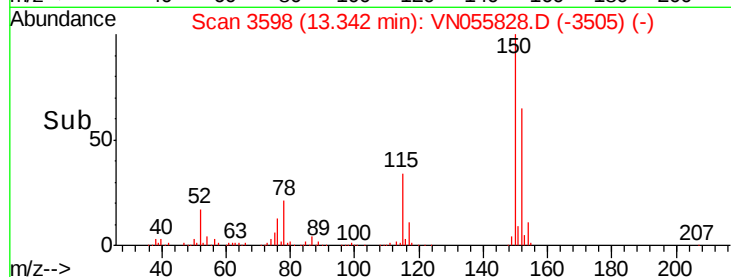
150 156.1 0.0 343.2



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. 0.16 min

Lab File: VN055828.D

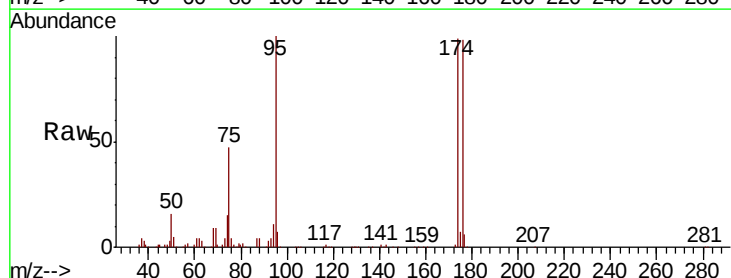
Acq: 25 May 2019 5:29

Tgt Ion:105 Resp: 168

Ion Ratio Lower Upper

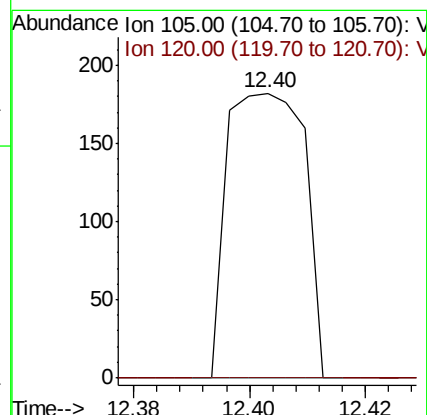
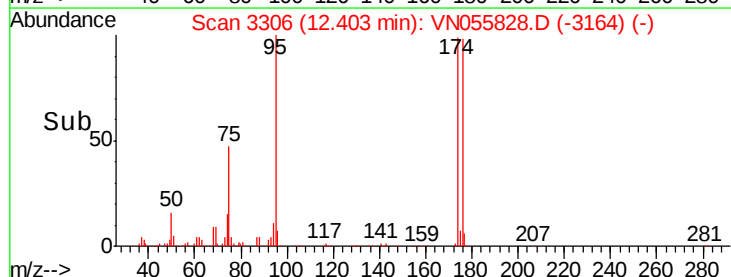
105 100

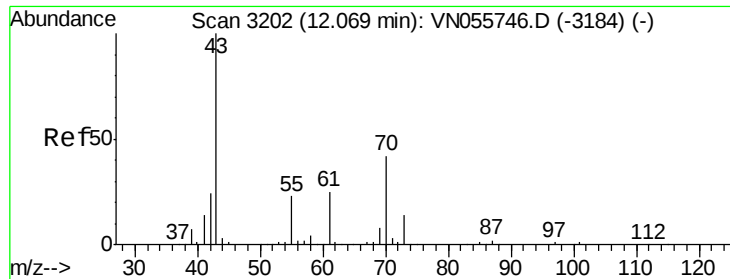
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.04 min Scan# 3192

Delta R.T. -0.03 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

Instrument :

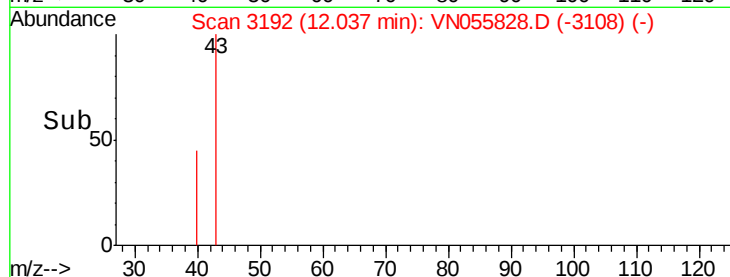
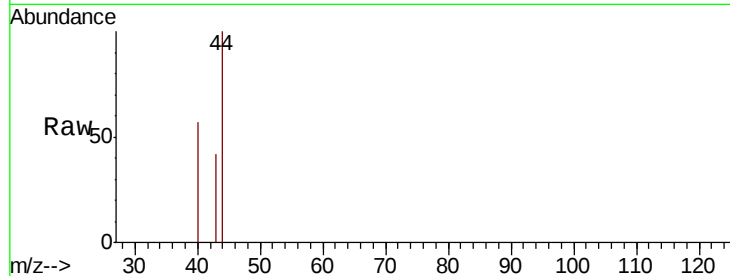
MSVOA_N

ClientSampleId :

MW2-R1-1

Tot Ion: 43 Resp: 312

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#

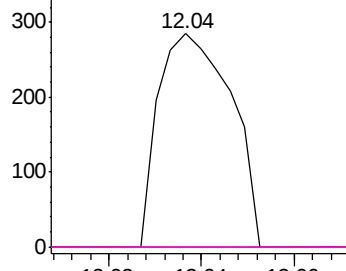


Abundance Ion 43.00 (42.70 to 43.70): VN0

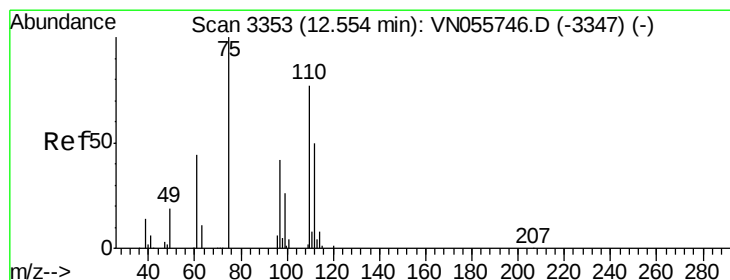
Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



Time-->



#76

1,2,3-Trichloropropane

Concen: 30.380 ug/l

RT: 12.40 min Scan# 3305

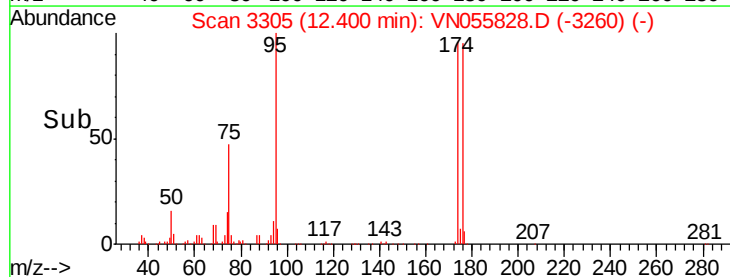
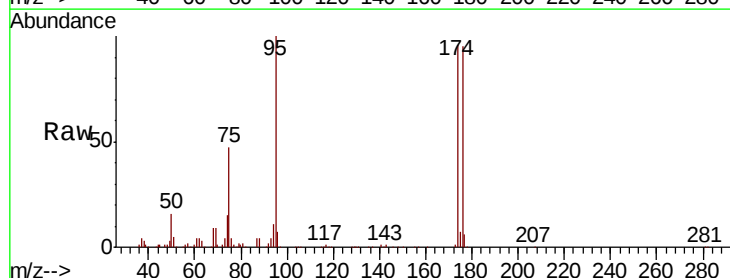
Delta R.T. -0.15 min

Lab File: VN055828.D

Acq: 25 May 2019 5:29

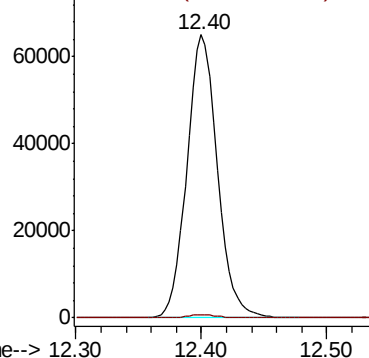
Tgt Ion: 75 Resp: 109642

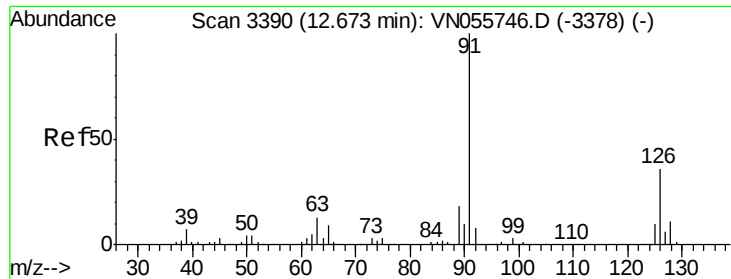
Ion	Ratio	Lower	Upper
75	100		
77	1.0	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

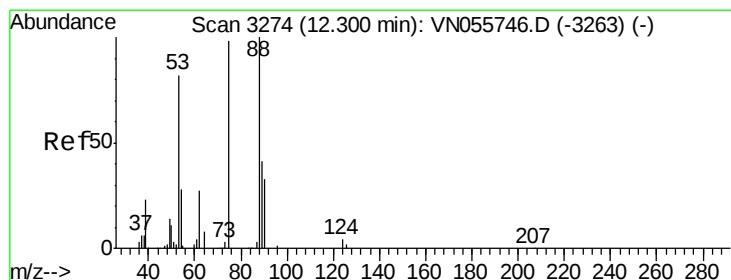
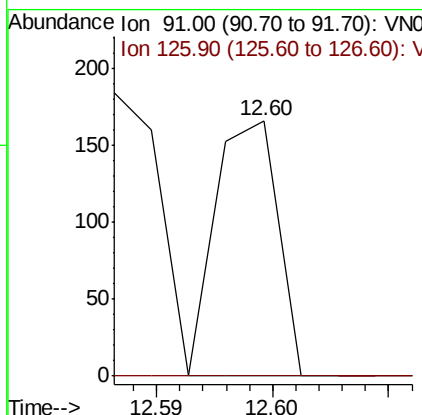
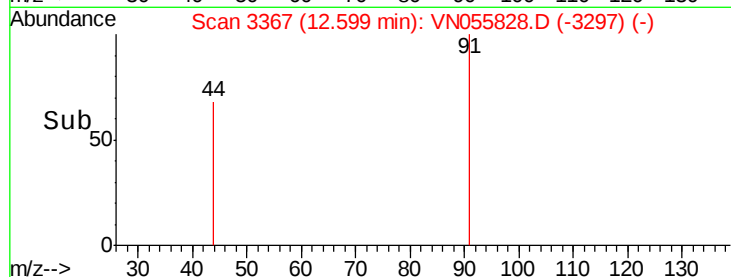
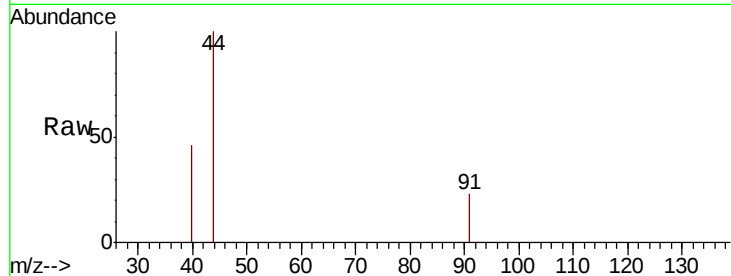




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.60 min Scan# 3367
 Delta R.T. -0.07 min
 Lab File: VN055828.D
 Acq: 25 May 2019 5:29

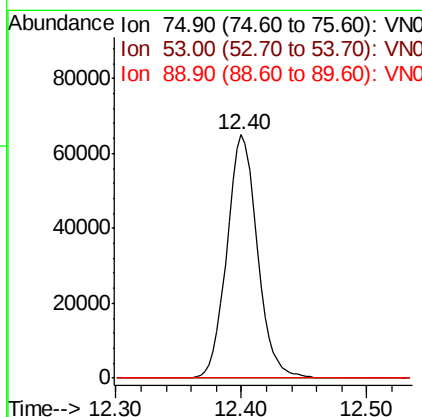
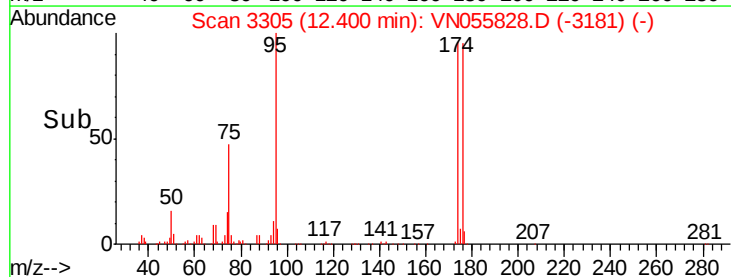
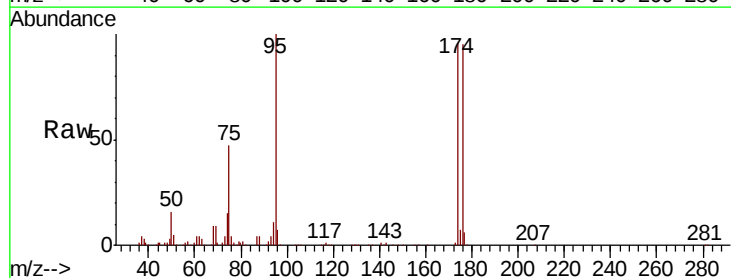
Instrument :
 MSVOA_N
 ClientSampleId :
 MW2-R1-1

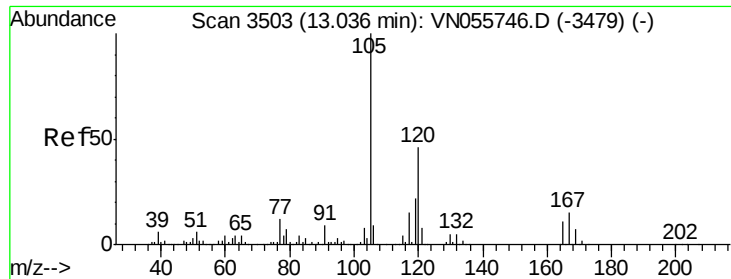
Tot Ion: 91 Resp: 61
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.246 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055828.D
 Acq: 25 May 2019 5:29

Tgt Ion: 75 Resp: 109642
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.1 102.1#
 89 0.0 36.9 55.3#

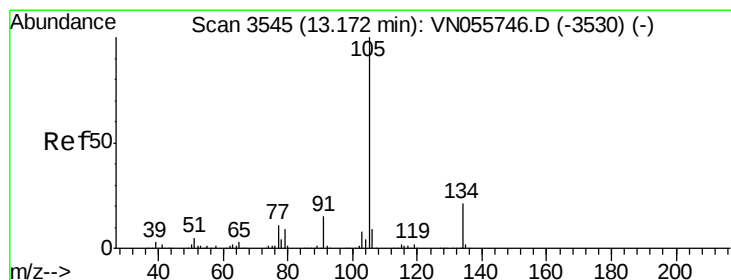
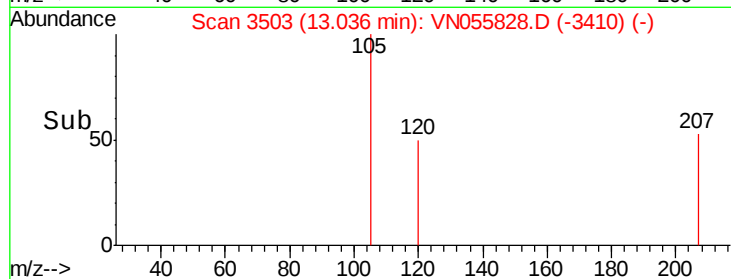
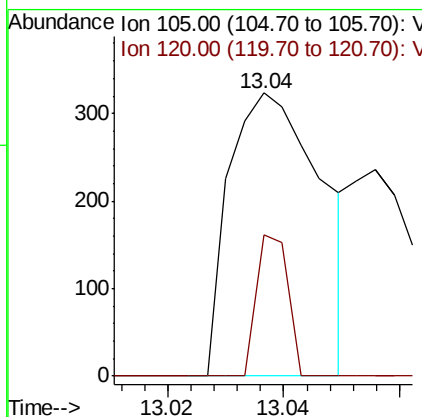
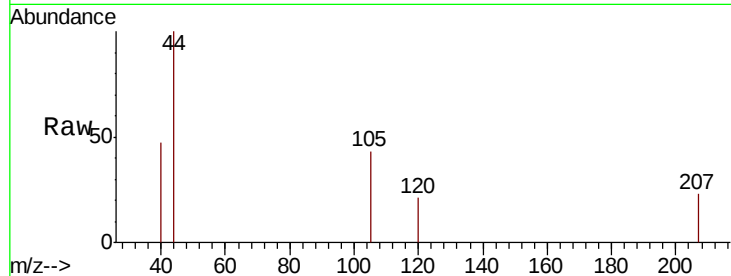




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN055828.D
 Acq: 25 May 2019 5:29

Instrument :
 MSVOA_N
 ClientSampleId :
 MW2-R1-1

Tot Ion:105 Resp: 356
 Ion Ratio Lower Upper
 105 100
 120 17.1 23.0 69.0#



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3503
 Delta R.T. -0.13 min
 Lab File: VN055828.D
 Acq: 25 May 2019 5:29

Tgt Ion:105 Resp: 356
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#

