

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\
 Data File : VN054373.D
 Acq On : 17 Mar 2019 8:45
 Operator : JC/SP
 Sample : K1687-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HR-05-031519-A

Quant Time: Mar 18 05:09:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1837961	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2777984	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2320876	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	872705	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	953191	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	
35) Dibromofluoromethane	7.59	113	839818	46.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.74%	
50) Toluene-d8	10.09	98	3197066	48.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.64%	
62) 4-Bromofluorobenzene	12.40	95	948564	40.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	81.94%	

Target Compounds

						Qvalue
14) Allyl chloride	4.54	41	122688	5.008	ug/l #	21
16) Acetone	3.82	43	18127	3.243	ug/l #	86
18) Methyl Acetate	4.33	43	3869	0.342	ug/l #	57
20) Methylene Chloride	4.54	84	4131859	225.157	ug/l	99
30) Chloroform	7.38	83	12623	0.385	ug/l	95
31) Cyclohexane	7.67	56	29717	Below Cal	#	12
36) 1,1-Dichloropropene	7.66	75	111327	4.352	ug/l #	48
38) Carbon Tetrachloride	7.66	117	156684	5.840	ug/l #	16
43) Isopropyl Acetate	8.17	43	28977	1.123	ug/l	99
48) Methyl methacrylate	9.18	41	14312	1.093	ug/l #	11
51) 4-Methyl-2-Pentanone	10.03	43	16820	1.232	ug/l #	36
53) t-1,3-Dichloropropene	10.29	75	72	1.988	ug/l #	42
54) cis-1,3-Dichloropropene	9.90	75	140151	4.884	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	26759	0.966	ug/l #	43
59) 2-Hexanone	10.77	43	356997	39.292	ug/l #	50
68) m/p-Xylenes	11.62	106	21866	0.662	ug/l	96
69) o-Xylene	11.95	106	23877	0.742	ug/l	94
71) Bromoform	12.40	173	6363	2.780	ug/l #	1
74) N-amyl acetate	11.88	43	35792	2.309	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	456564	35.576	ug/l #	100
78) n-propylbenzene	12.59	91	25922	0.342	ug/l	98
79) 2-Chlorotoluene	12.65	91	10864	0.238	ug/l #	38
80) 1,3,5-Trimethylbenzene	12.73	105	106981	1.842	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	456564	121.614	ug/l #	11
82) 4-Chlorotoluene	12.73	91	12048	0.265	ug/l #	39
84) 1,2,4-Trimethylbenzene	13.04	105	244343	4.288	ug/l	99
85) sec-Butylbenzene	13.17	105	14011	0.202	ug/l	90
86) p-Isopropyltoluene	13.29	119	16117	0.265	ug/l	95
90) Hexachloroethane	13.89	117	5261	0.522	ug/l #	2
92) 1,2-Dibromo-3-Chloropropan	14.25	75	635	0.276	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	402	2.537	ug/l #	1
95) Naphthalene	15.13	128	74964	5.292	ug/l	99

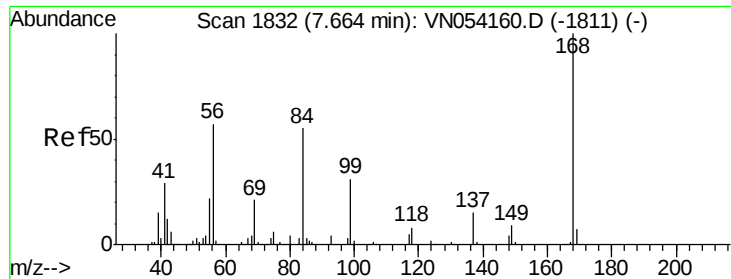
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031619\
Data File : VN054373.D
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Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

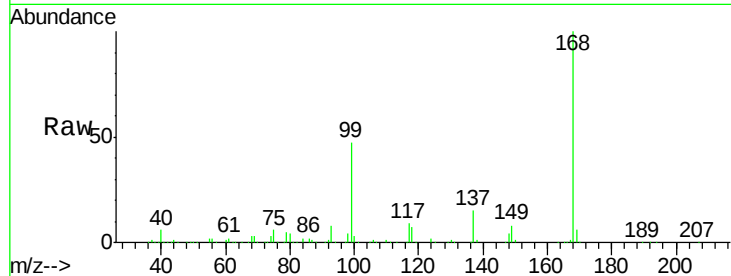
HR-05-031519-A

Tot Ion:168 Resp: 1837961

Ion Ratio Lower Upper

168 100

99 46.9 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

800000

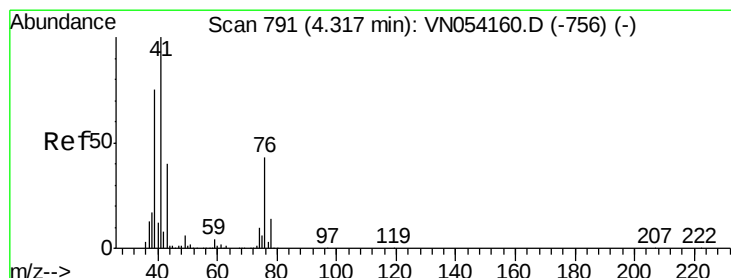
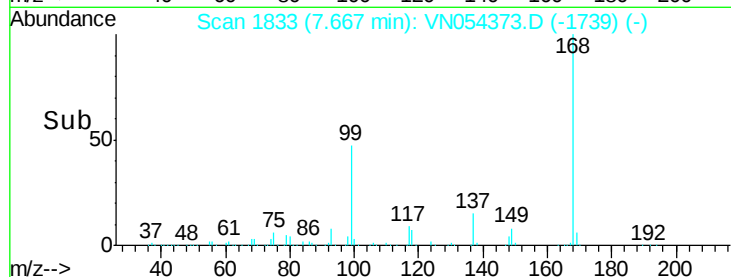
600000

400000

200000

0

Time-->



#14

Allyl chloride

Concen: 5.008 ug/l

RT: 4.54 min Scan# 862

Delta R.T. 0.23 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

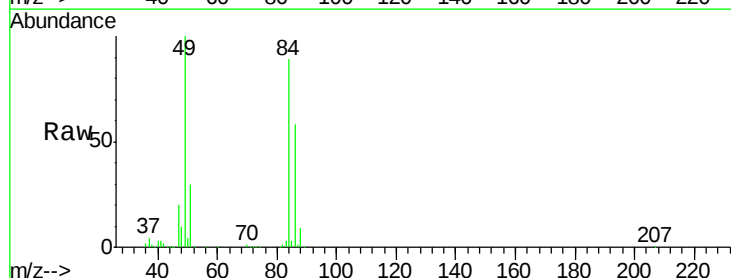
Tgt Ion: 41 Resp: 122688

Ion Ratio Lower Upper

41 100

39 0.1 58.2 87.4#

76 0.0 31.7 47.5#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 75.90 (75.60 to 76.60): VNO

4.54

50000

40000

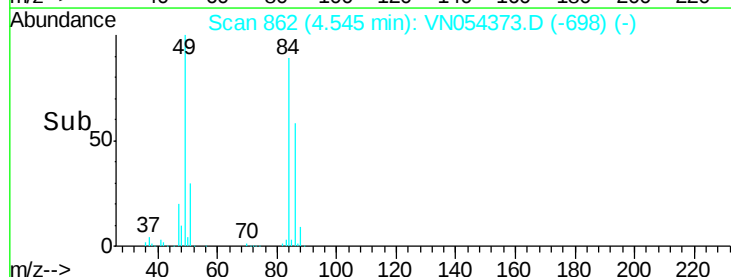
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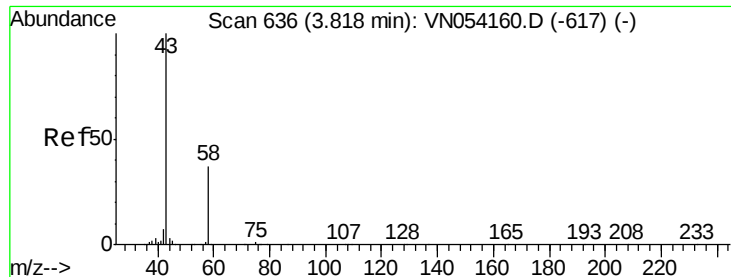
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10000

0

Time-->





#16

Acetone

Concen: 3.243 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

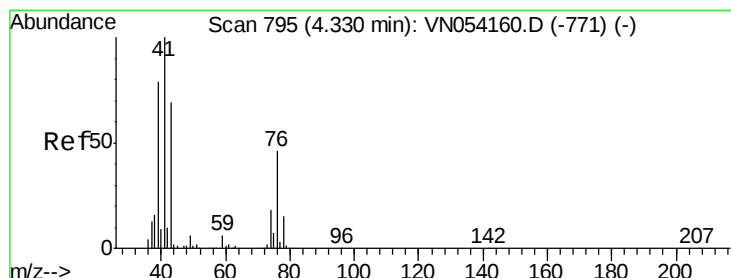
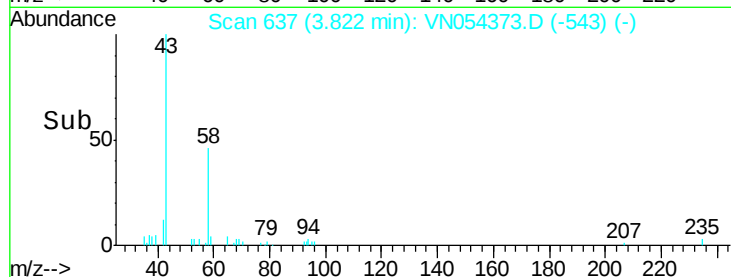
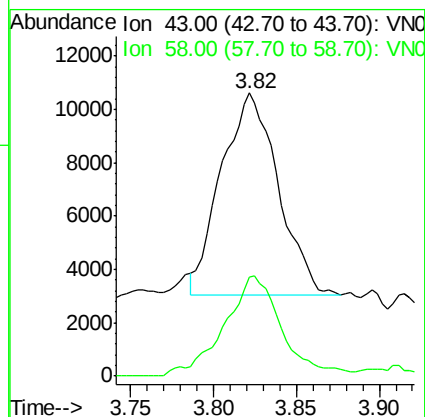
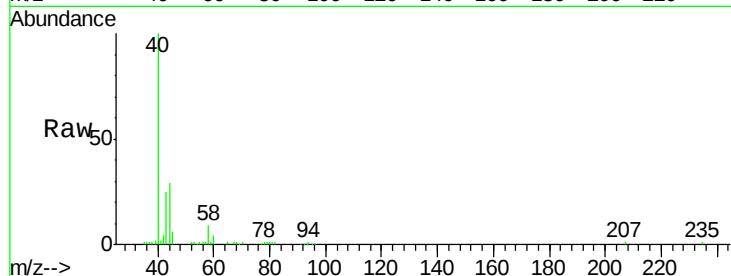
HR-05-031519-A

Tot Ion: 43 Resp: 18127

Ion Ratio Lower Upper

43 100

58 45.5 29.9 44.9#



#18

Methyl Acetate

Concen: 0.342 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054373.D

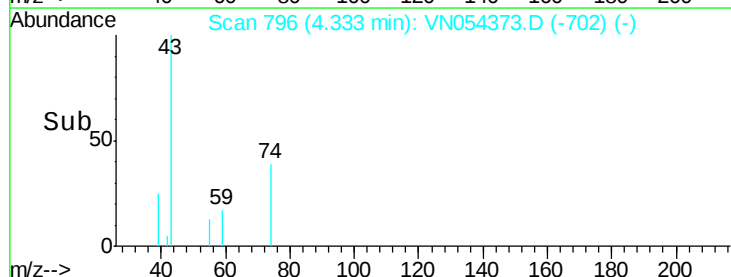
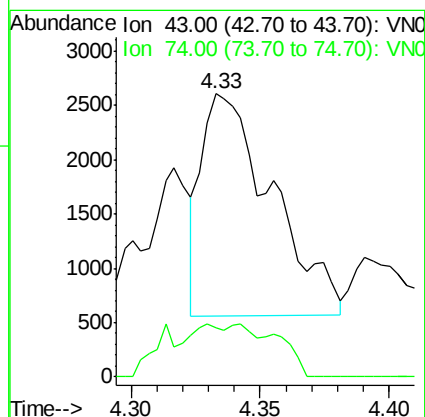
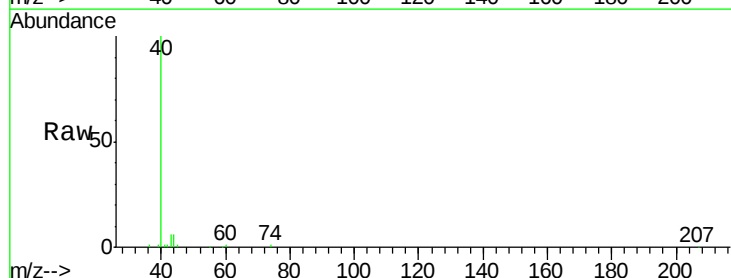
Acq: 17 Mar 2019 8:45

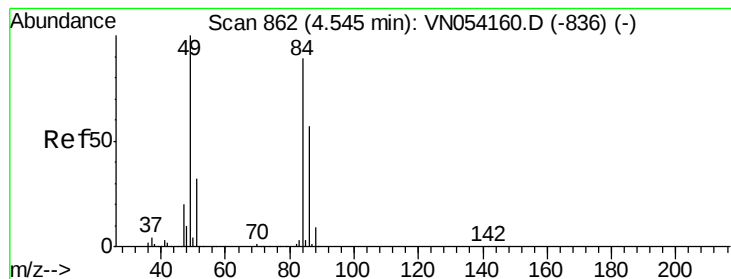
Tgt Ion: 43 Resp: 3869

Ion Ratio Lower Upper

43 100

74 4.0 20.8 31.2#





#20

Methvlene Chloride

Concen: 225.157 ug/l

RT: 4.54 min Scan# 862

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

HR-05-031519-A

Tot Ion: 84 Resp: 4131859

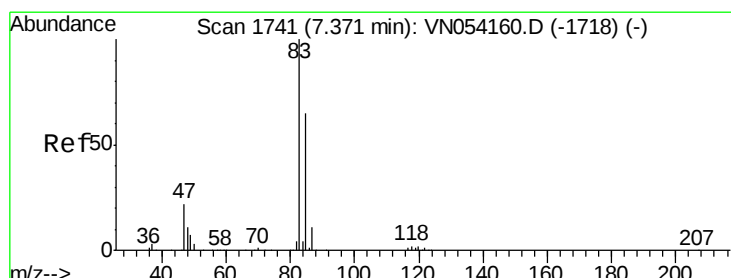
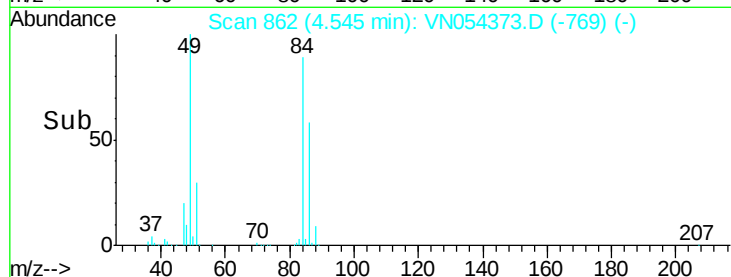
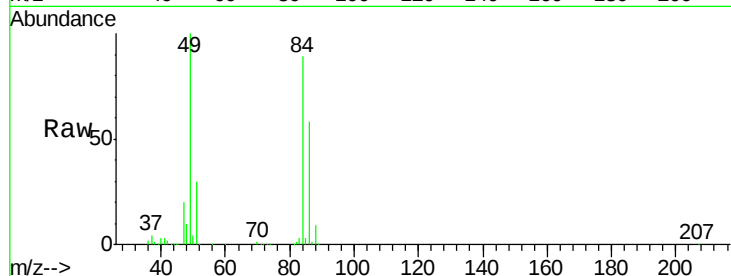
Ion	Ratio	Lower	Upper
84	100		
49	112.5	89.7	134.5
51	34.3	28.2	42.4
86	64.9	50.8	76.2

Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#30

Chloroform

Concen: 0.385 ug/l

RT: 7.38 min Scan# 1743

Delta R.T. 0.01 min

Lab File: VN054373.D

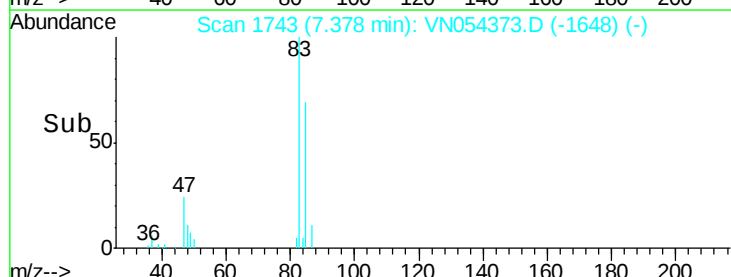
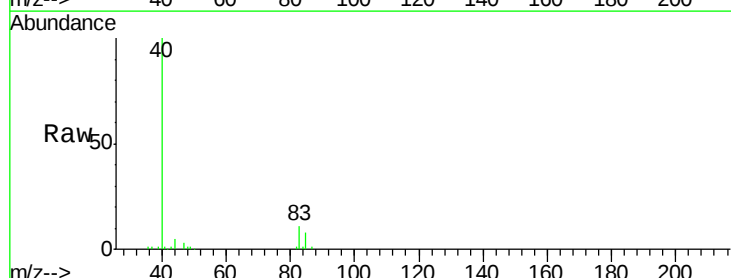
Acq: 17 Mar 2019 8:45

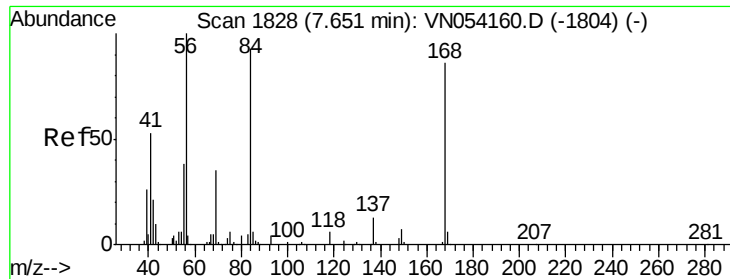
Tgt Ion: 83 Resp: 12623

Ion	Ratio	Lower	Upper
83	100		
85	69.2	52.2	78.4

Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

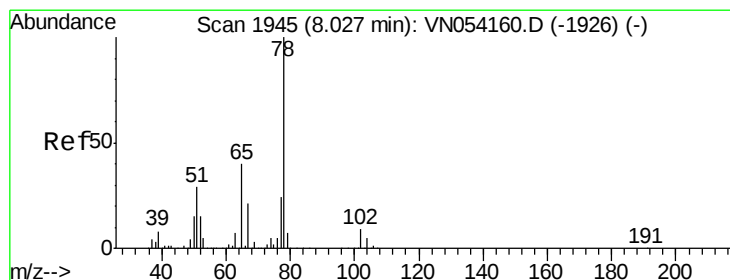
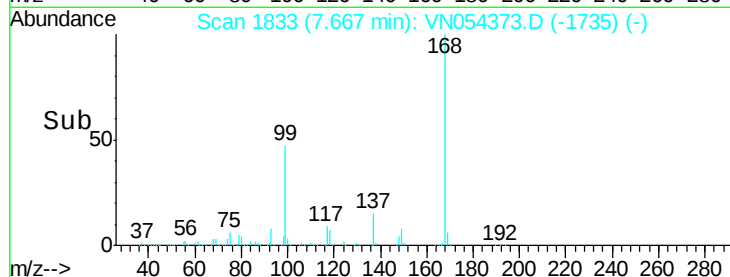
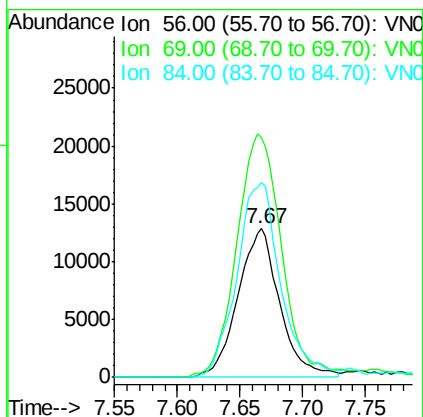
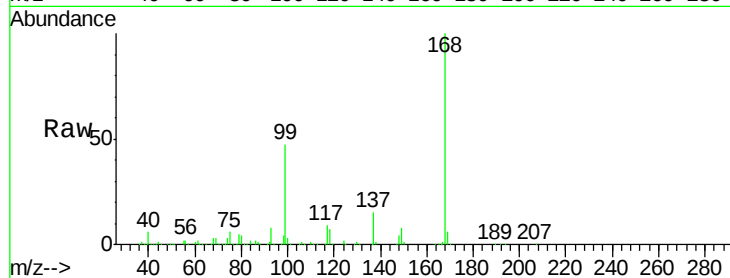




#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054373.D
Acq: 17 Mar 2019 8:45

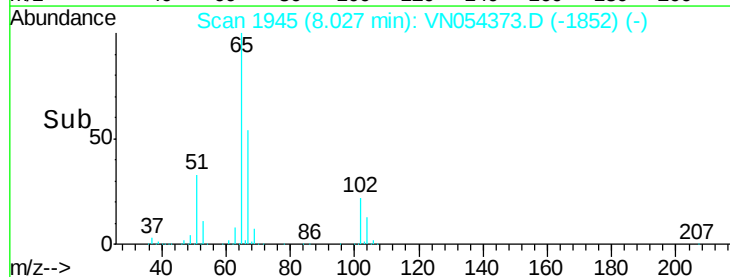
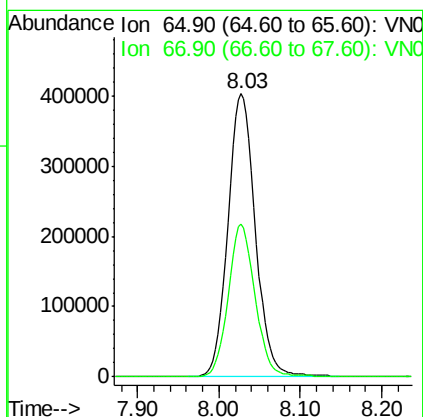
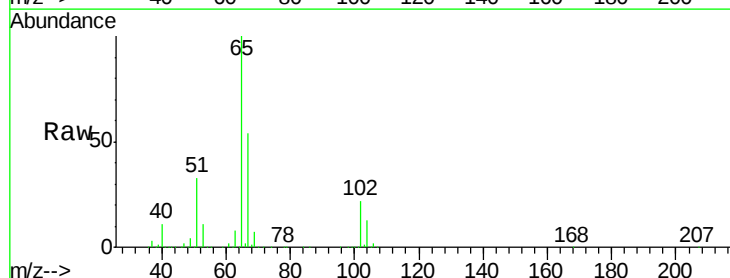
Instrument :
MSVOA_N
ClientSampleId :
HR-05-031519-A

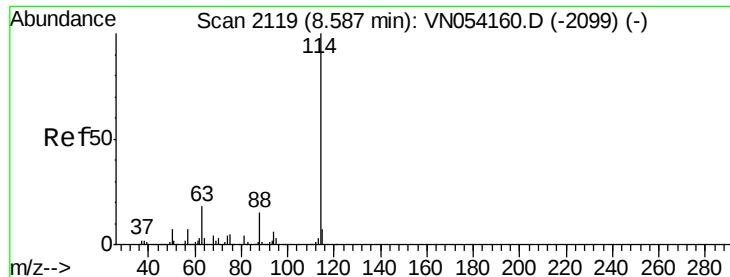
Tot Ion: 56 Resp: 29717
Ion Ratio Lower Upper
56 100
69 161.4 27.8 41.6#
84 130.8 74.6 111.8#



#33
1,2-Dichloroethane-d4
Concen: 48.834 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054373.D
Acq: 17 Mar 2019 8:45

Tgt Ion: 65 Resp: 953191
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

HR-05-031519-A

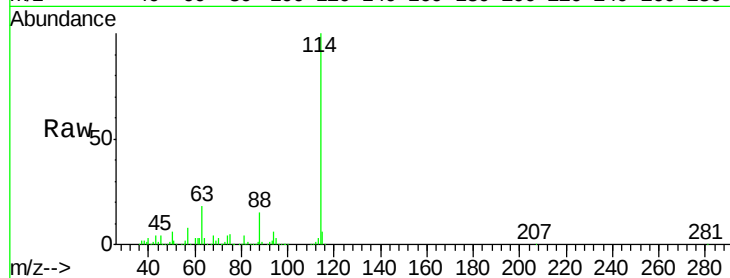
Tot Ion:114 Resp: 2777984

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.2

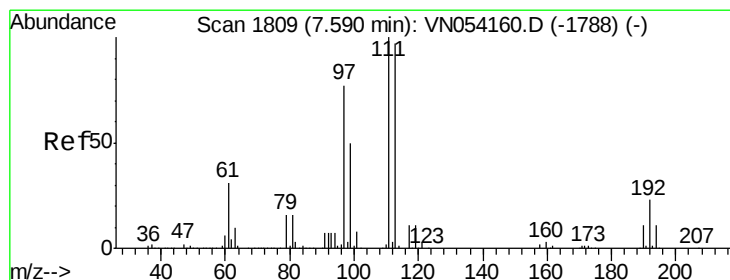
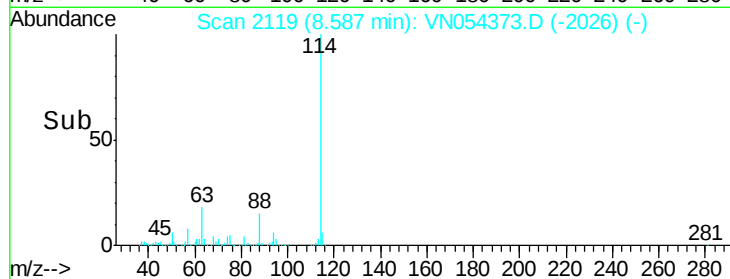
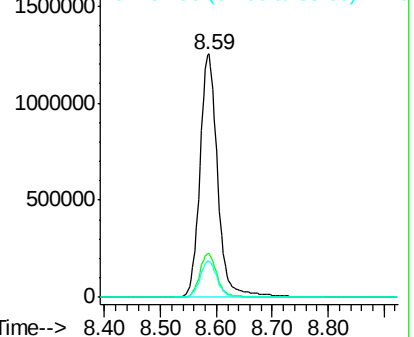
88 15.0 0.0 30.2



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: 46.873 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

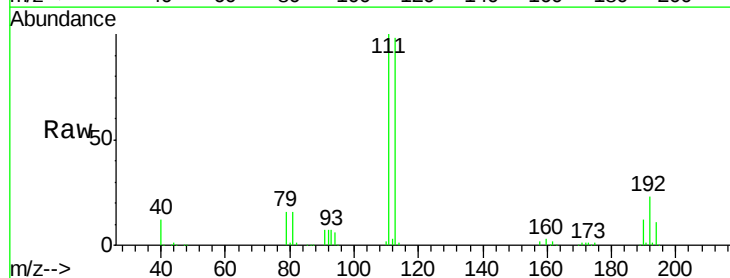
Tgt Ion:113 Resp: 839818

Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.4

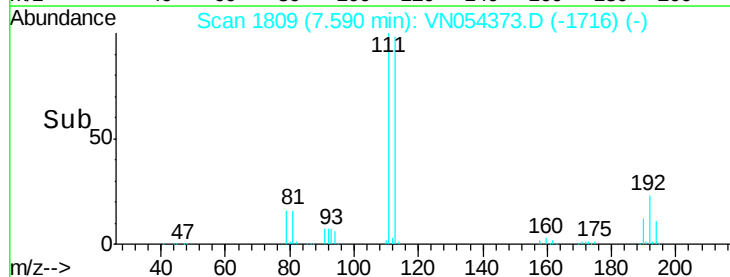
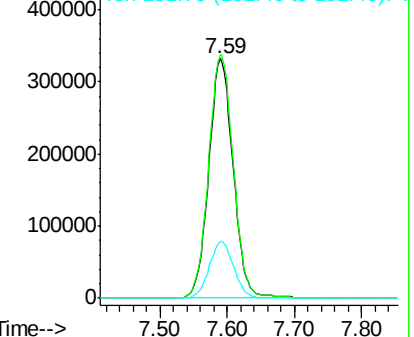
192 23.6 19.2 28.8

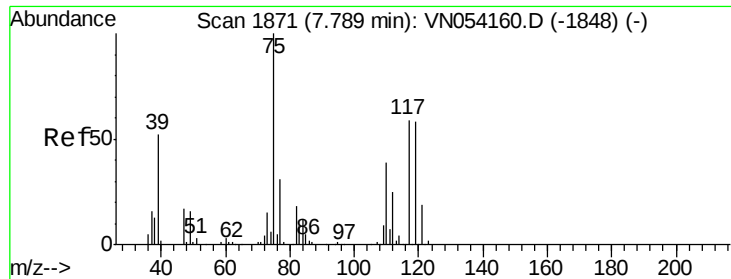


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

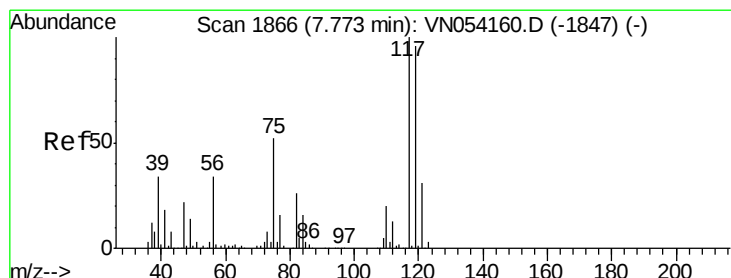
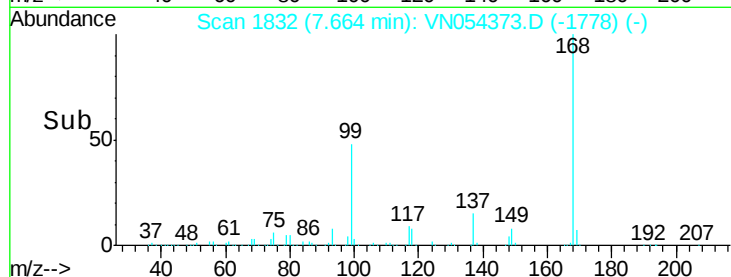
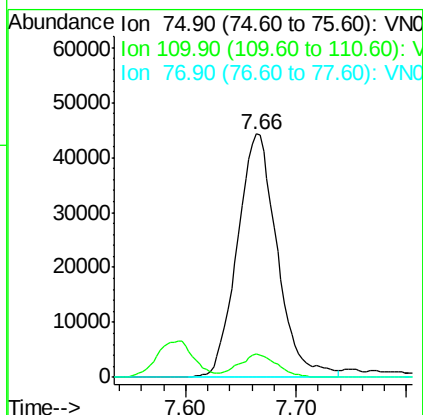
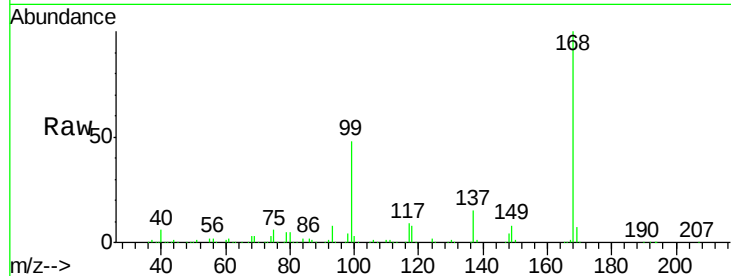




#36
 1,1-Dichloropropene
 Concen: 4.352 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054373.D
 Acq: 17 Mar 2019 8:45

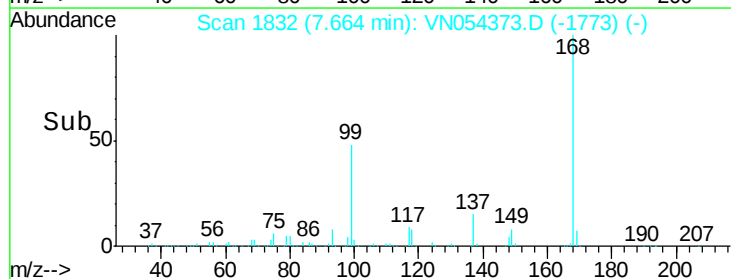
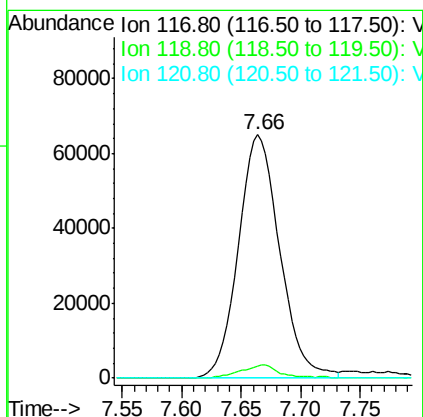
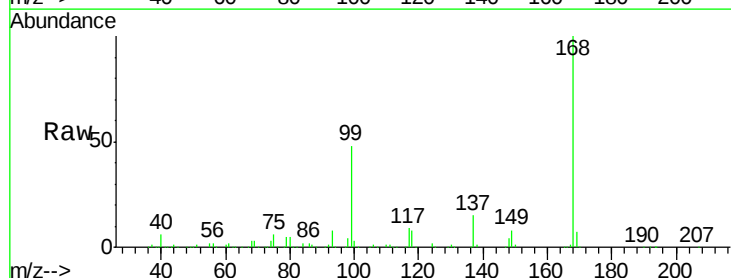
Instrument :
 MSVOA_N
 ClientSampleId :
 HR-05-031519-A

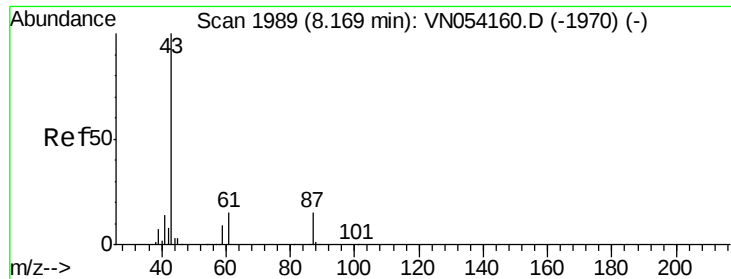
Tot Ion: 75 Resp: 111327
 Ion Ratio Lower Upper
 75 100
 110 9.0 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.840 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054373.D
 Acq: 17 Mar 2019 8:45

Tgt Ion: 117 Resp: 156684
 Ion Ratio Lower Upper
 117 100
 119 5.1 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 1.123 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

HR-05-031519-A

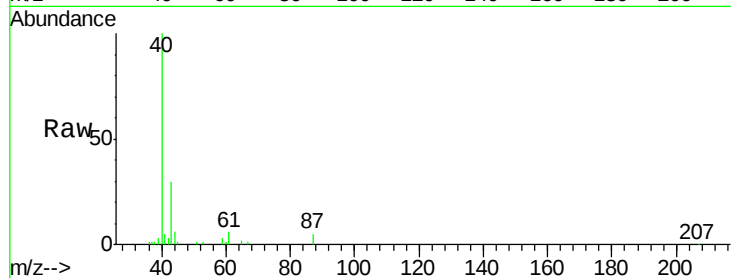
Tot Ion: 43 Resp: 28977

Ion Ratio Lower Upper

43 100

61 19.5 15.8 23.8

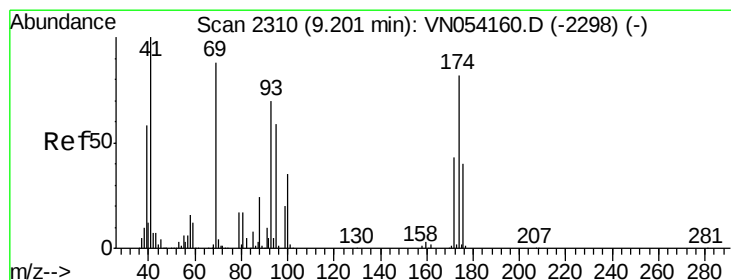
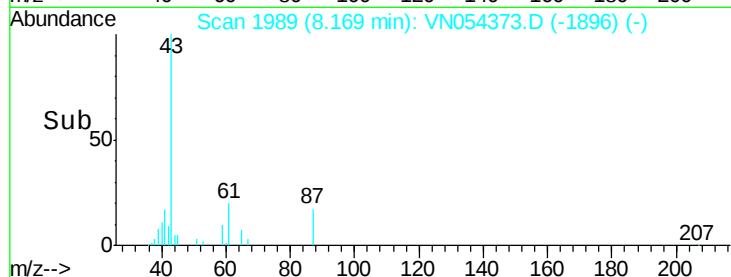
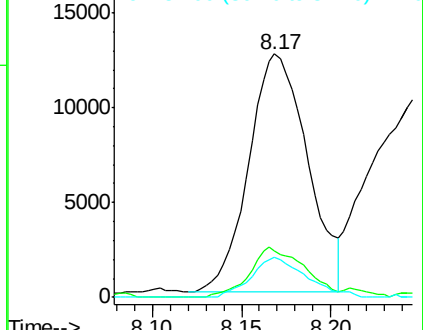
87 15.6 12.0 18.0



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



#48

Methyl methacrylate

Concen: 1.093 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

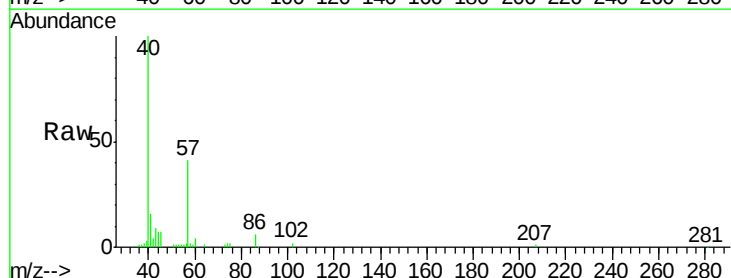
Tgt Ion: 41 Resp: 14312

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

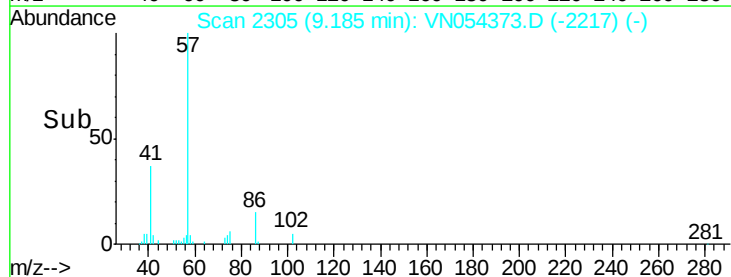
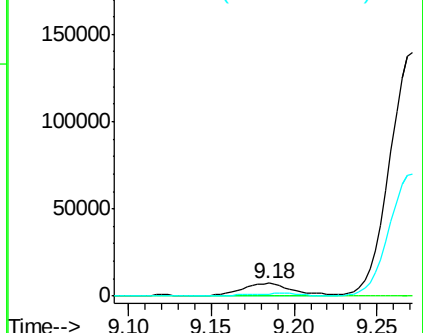
39 0.0 47.5 71.3#

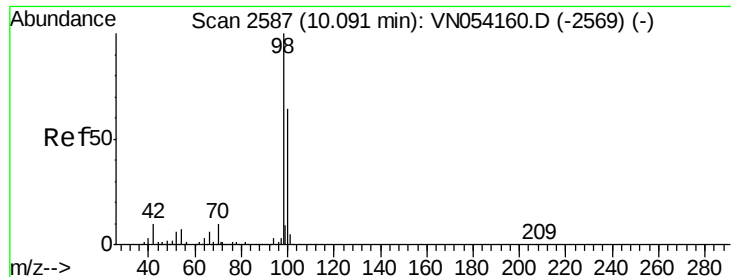


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 48.316 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

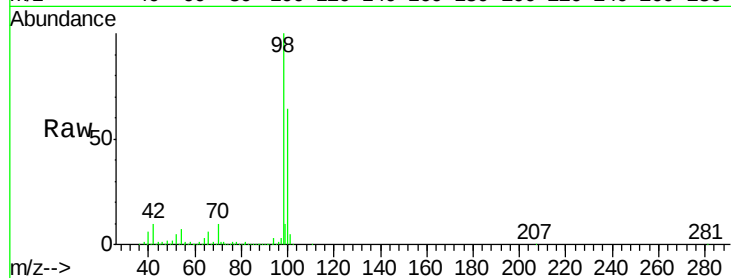
HR-05-031519-A

Tot Ion: 98 Resp: 3197066

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054160.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054160.D (-2569) (-)

10.09

1500000

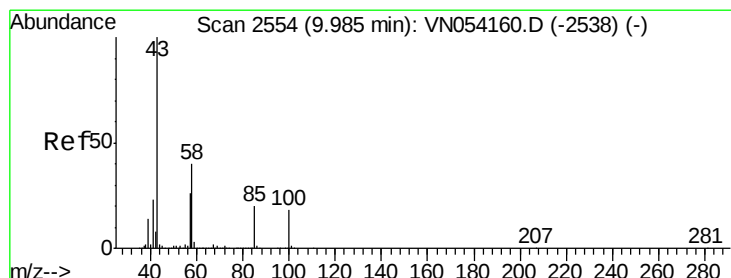
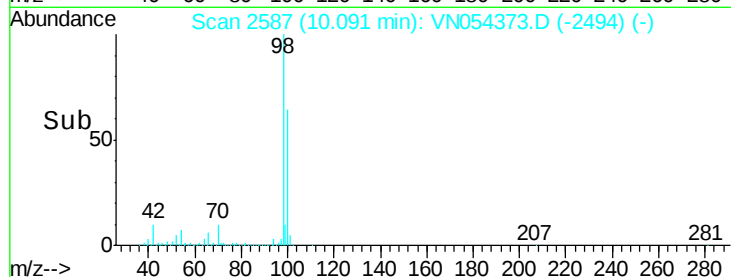
1000000

500000

0

Time-->

10.00 10.20



#51

4-Methyl-2-Pentanone

Concen: 1.232 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054373.D

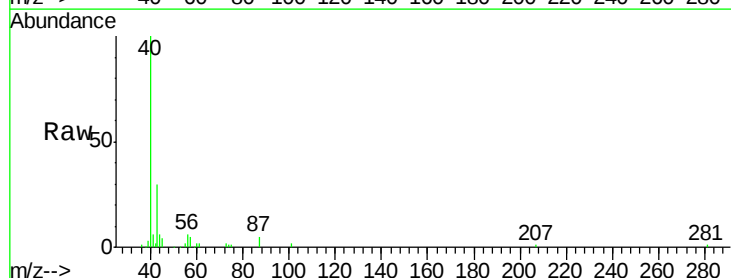
Acq: 17 Mar 2019 8:45

Tgt Ion: 43 Resp: 16820

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054160.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054160.D (-2538) (-)

10.03

15000

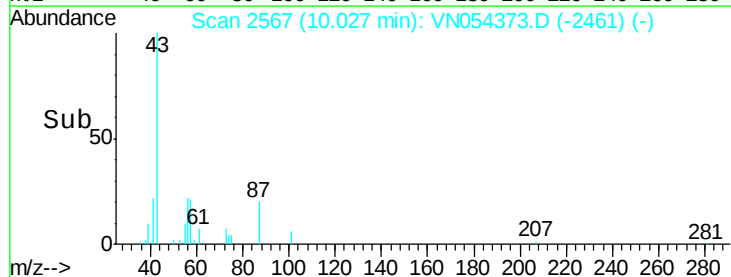
10000

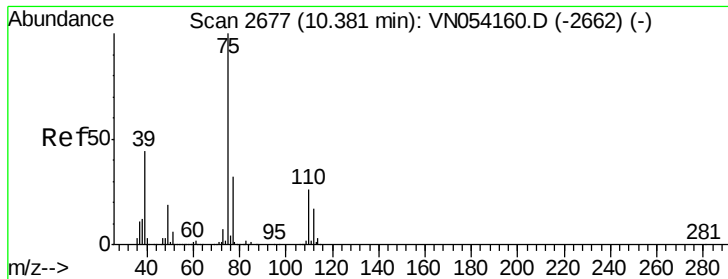
5000

0

Time-->

10.00 10.05





#53

t-1,3-Dichloropropene

Concen: 1.988 ug/l

RT: 10.29 min Scan# 2650

Delta R.T. -0.09 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampled :

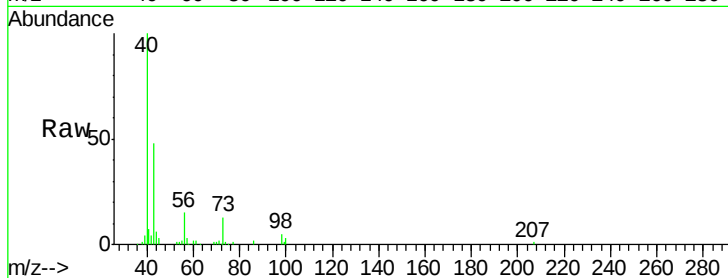
HR-05-031519-A

Tot Ion: 75 Resp: 72

Ion Ratio Lower Upper

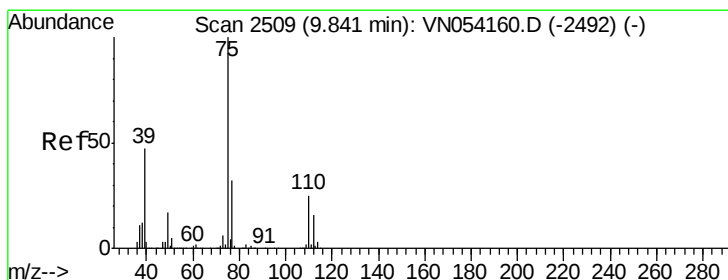
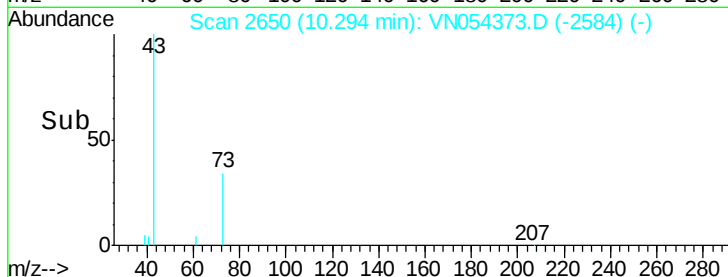
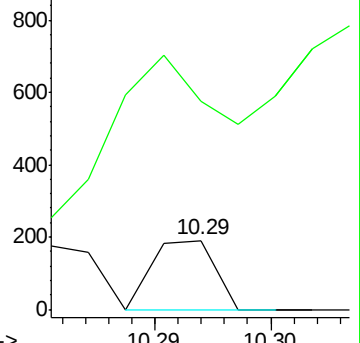
75 100

77 0.0 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 4.884 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

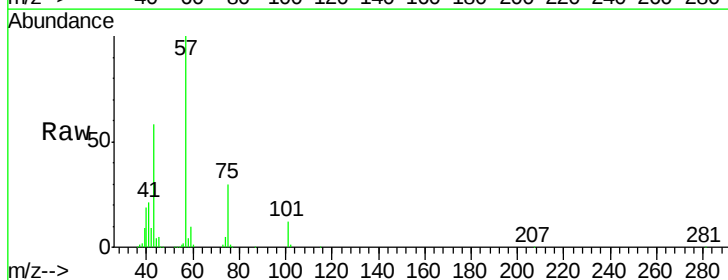
Tgt Ion: 75 Resp: 140151

Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

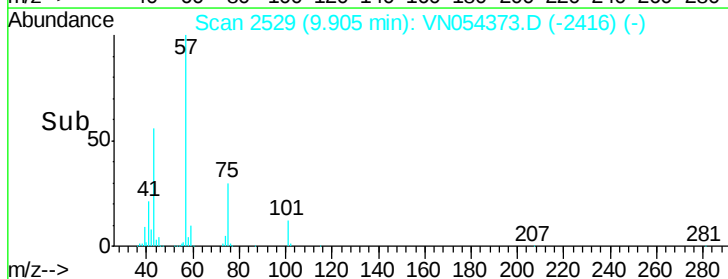
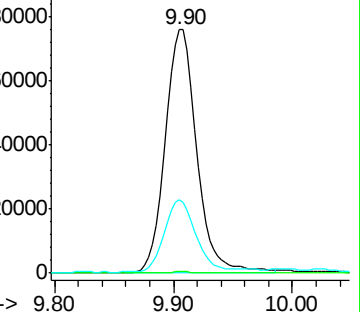
39 29.9 37.2 55.8#

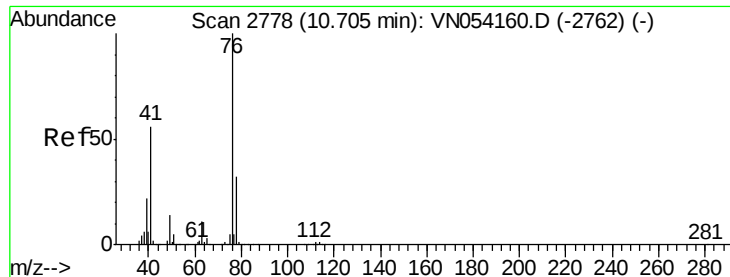


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.966 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

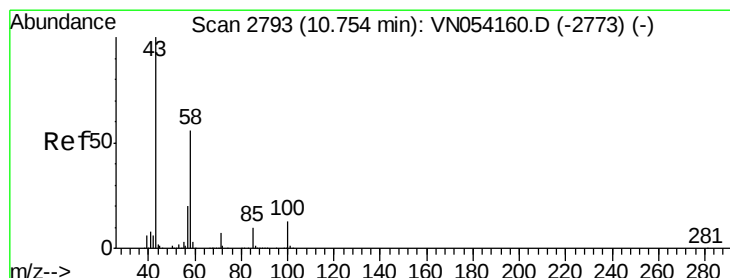
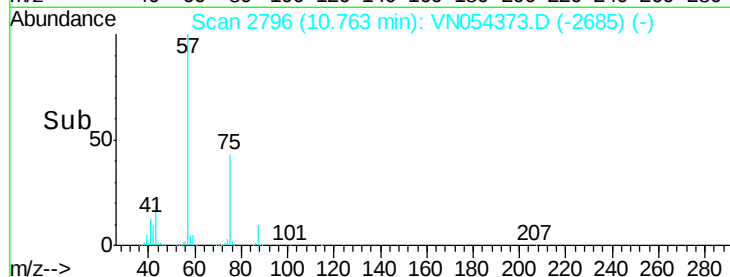
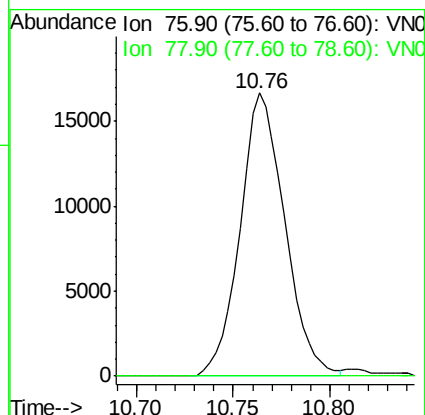
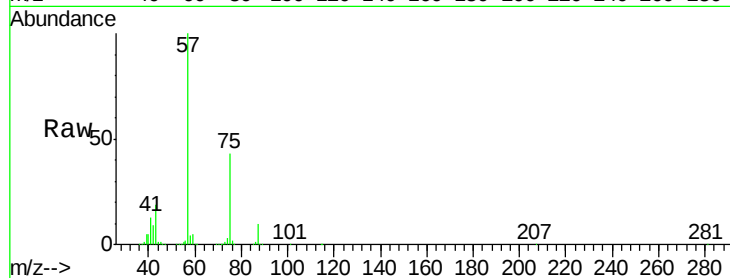
HR-05-031519-A

Tot Ion: 76 Resp: 26759

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



#59

2-Hexanone

Concen: 39.292 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054373.D

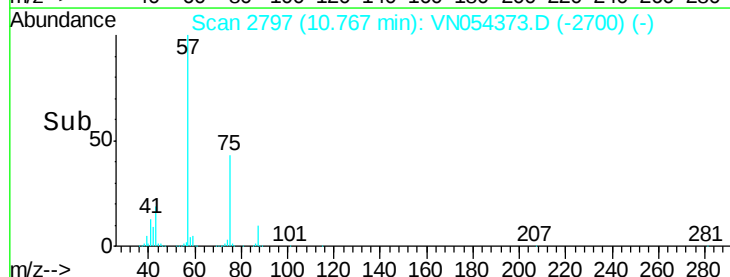
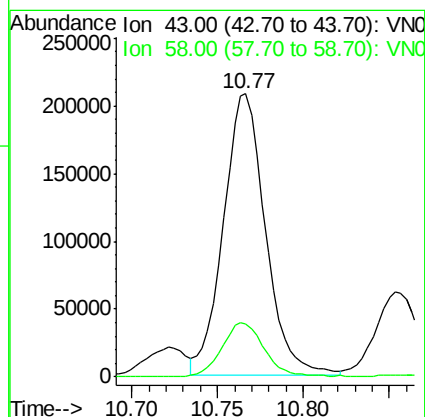
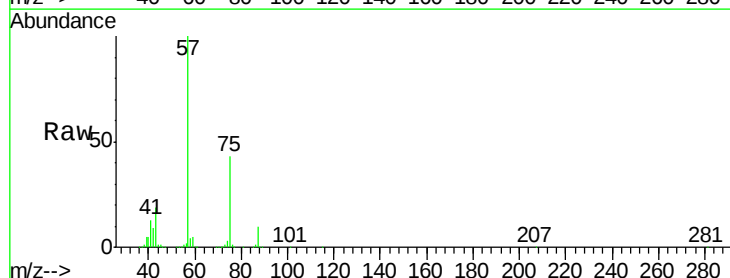
Acq: 17 Mar 2019 8:45

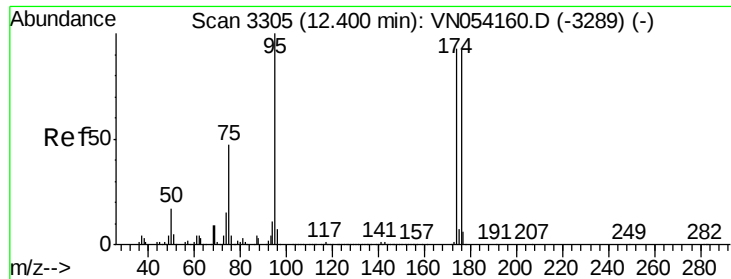
Tgt Ion: 43 Resp: 356997

Ion Ratio Lower Upper

43 100

58 19.7 28.0 83.9#





#62

4-Bromofluorobenzene

Concen: 40.970 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

HR-05-031519-A

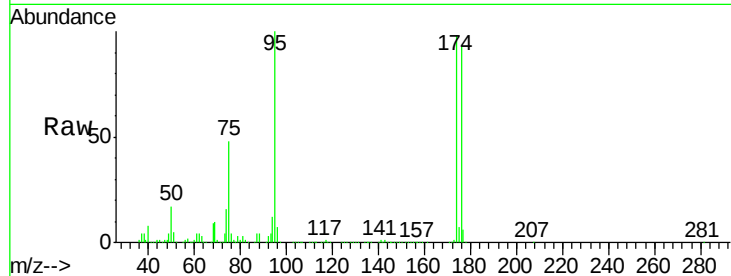
Tot Ion: 95 Resp: 948564

Ion Ratio Lower Upper

95 100

174 97.0 0.0 191.0

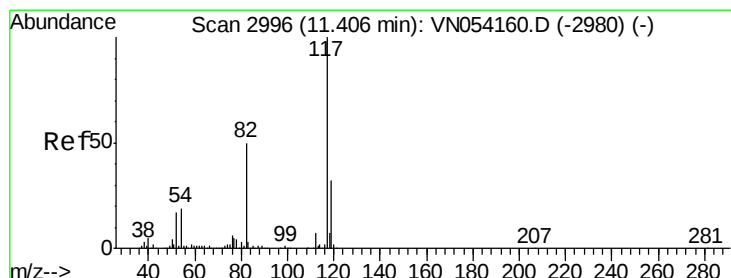
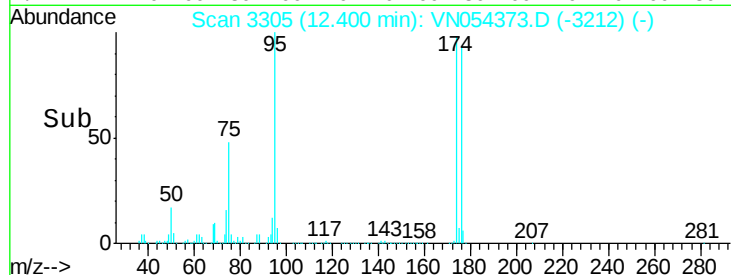
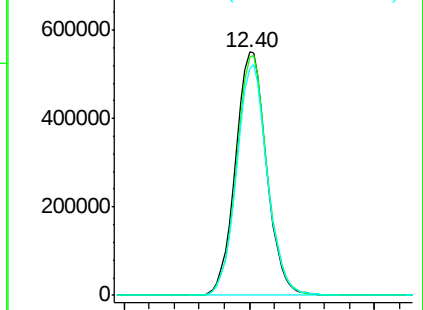
176 93.3 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054373.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054373.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054373.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

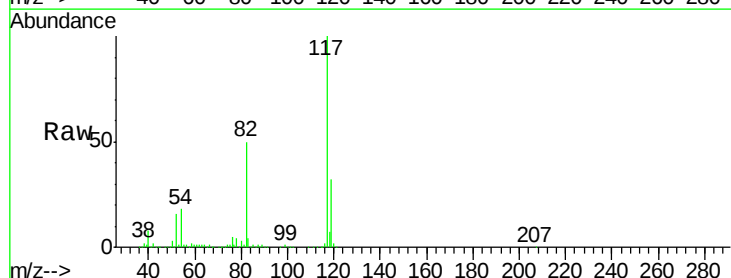
Tgt Ion: 117 Resp: 2320876

Ion Ratio Lower Upper

117 100

82 50.3 40.0 60.0

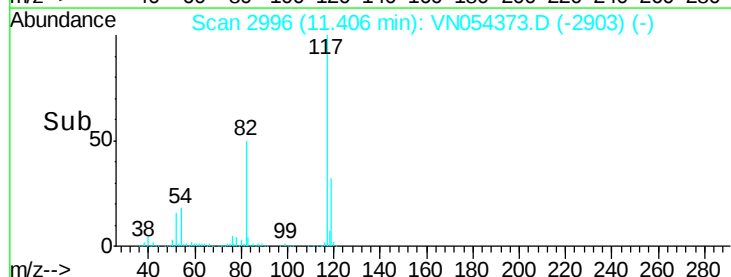
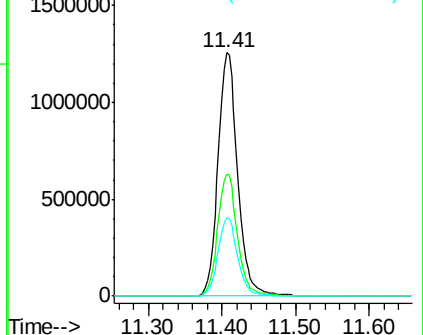
119 32.3 25.8 38.6

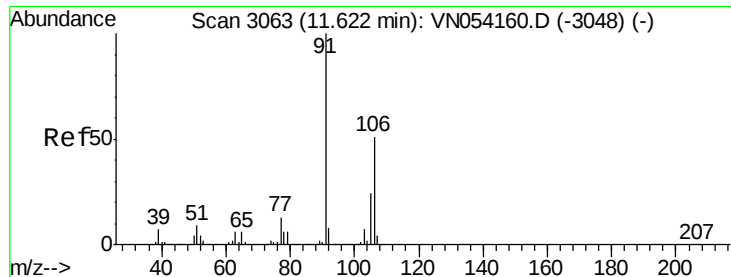


Abundance Ion 116.90 (116.60 to 117.60): VN054373.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054373.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054373.D (-2903) (-)





#68

m/p-Xylenes

Concen: 0.662 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

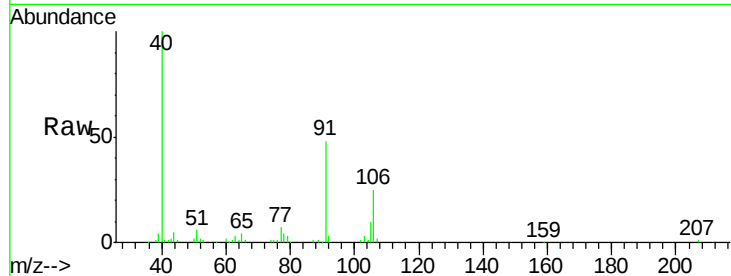
HR-05-031519-A

Tot Ion:106 Resp: 21866

Ion Ratio Lower Upper

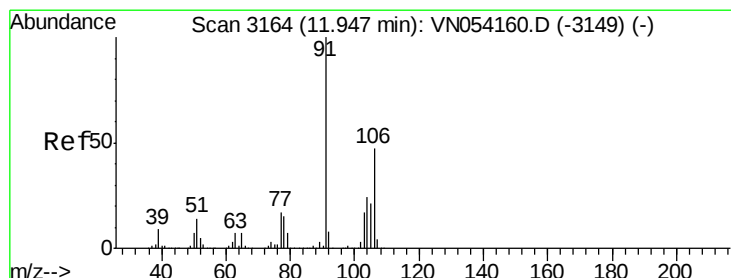
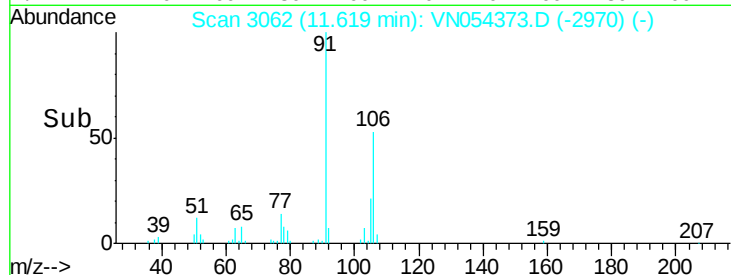
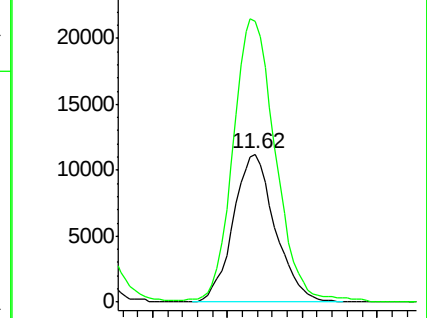
106 100

91 193.9 159.4 239.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#69

o-Xylene

Concen: 0.742 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. 0.00 min

Lab File: VN054373.D

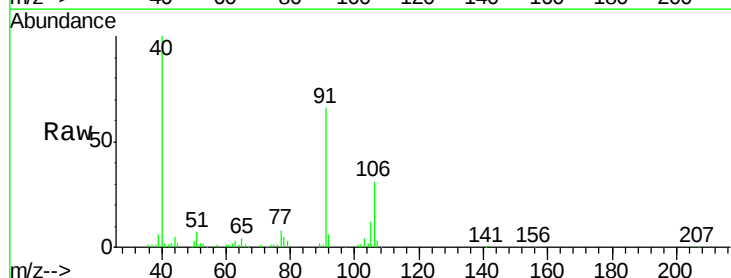
Acq: 17 Mar 2019 8:45

Tgt Ion:106 Resp: 23877

Ion Ratio Lower Upper

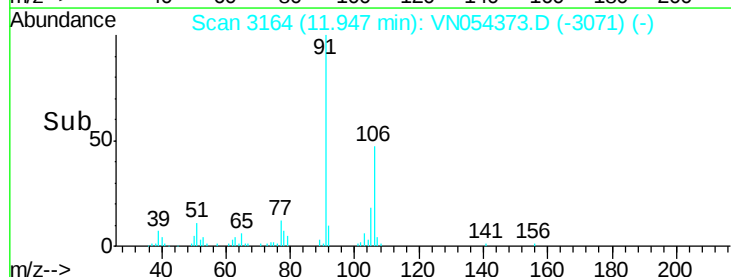
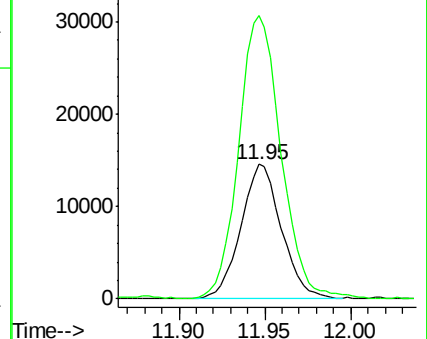
106 100

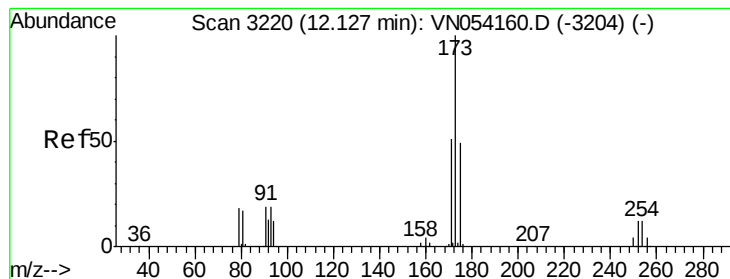
91 220.4 105.7 317.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#71

Bromoform

Concen: 2.780 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

HR-05-031519-A

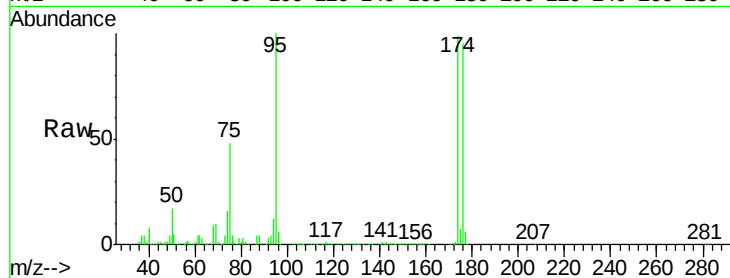
Tot Ion:173 Resp: 6363

Ion Ratio Lower Upper

173 100

175 875.3 24.4 73.2#

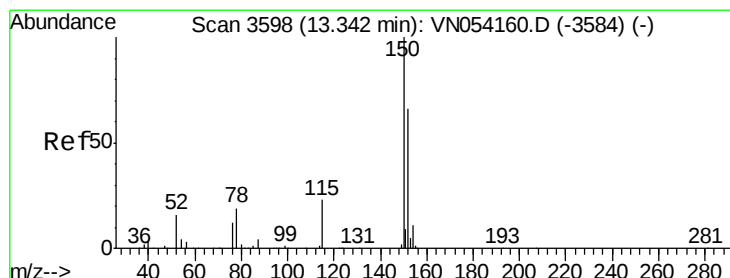
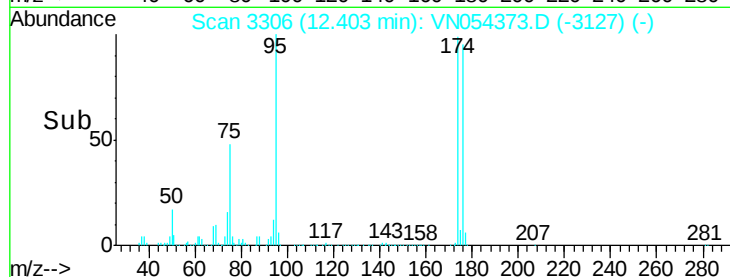
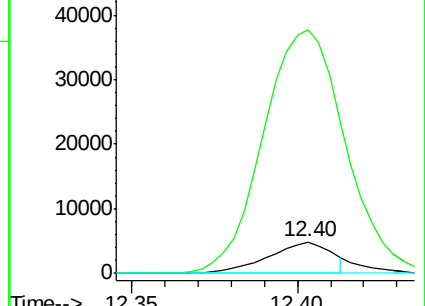
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

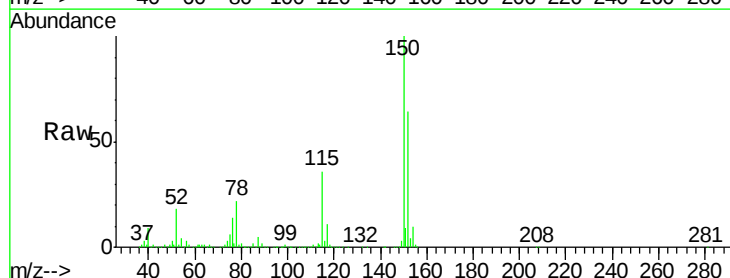
Tgt Ion:152 Resp: 872705

Ion Ratio Lower Upper

152 100

115 55.7 27.2 81.6

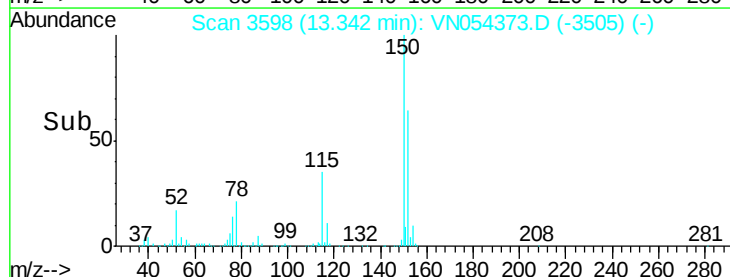
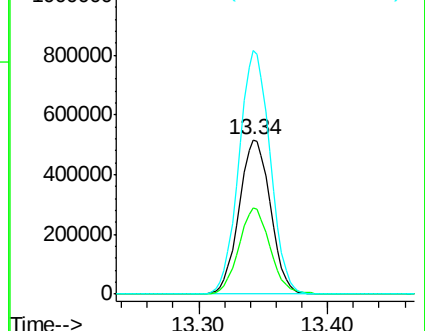
150 157.1 0.0 349.2

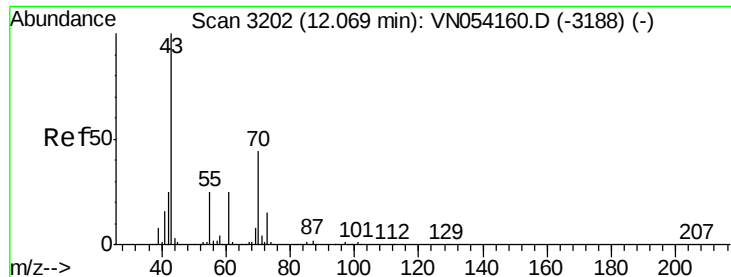


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

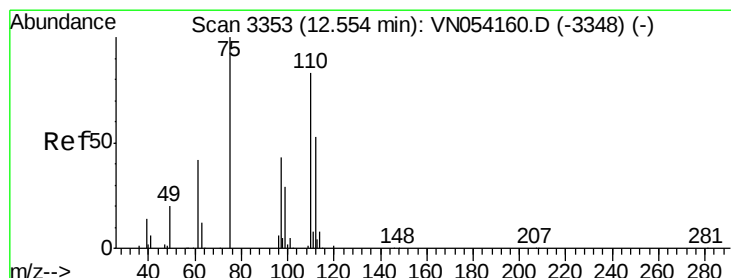
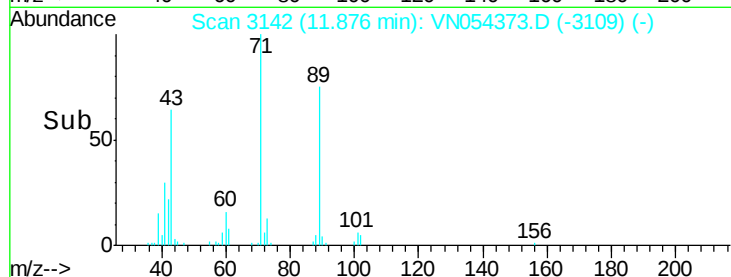
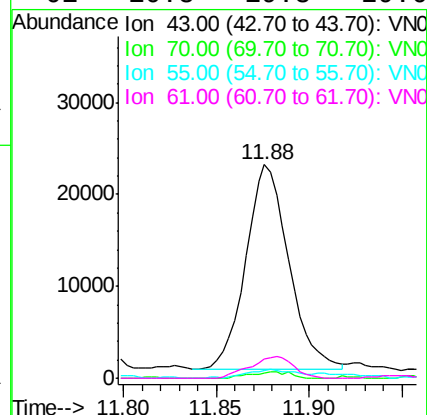
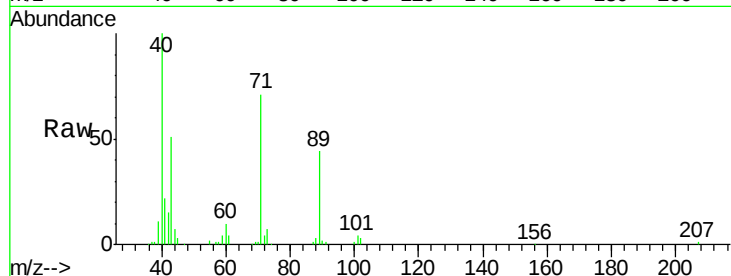




#74
N-amvl acetate
Concen: 2.309 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN054373.D
Acq: 17 Mar 2019 8:45

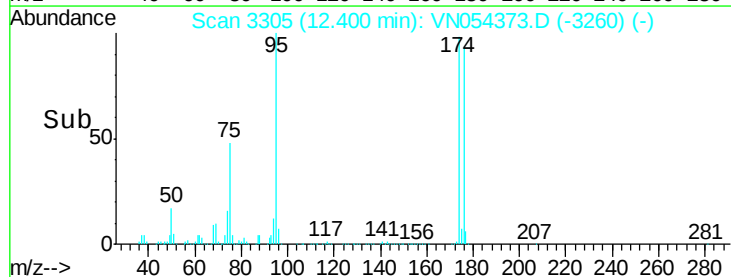
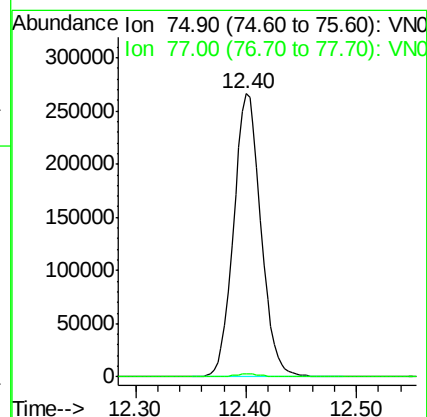
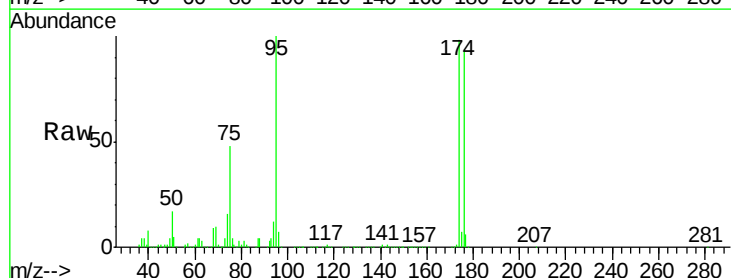
Instrument :
MSVOA_N
ClientSampleId :
HR-05-031519-A

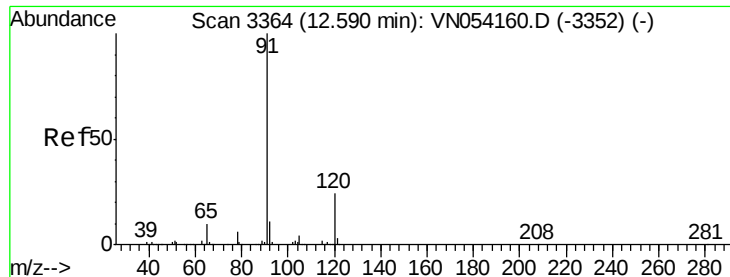
Tot Ion: 43 Resp: 35792
Ion Ratio Lower Upper
43 100
70 2.8 35.4 53.0#
55 4.6 19.8 29.6#
61 10.8 19.8 29.6#



#76
1,2,3-Trichloropropane
Concen: 35.576 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054373.D
Acq: 17 Mar 2019 8:45

Tgt Ion: 75 Resp: 456564
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#78

n-propylbenzene

Concen: 0.342 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

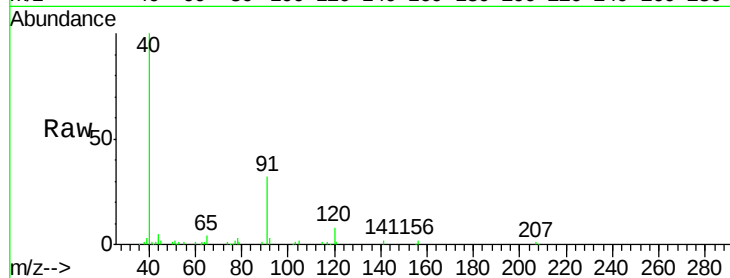
HR-05-031519-A

Tot Ion: 91 Resp: 25922

Ion Ratio Lower Upper

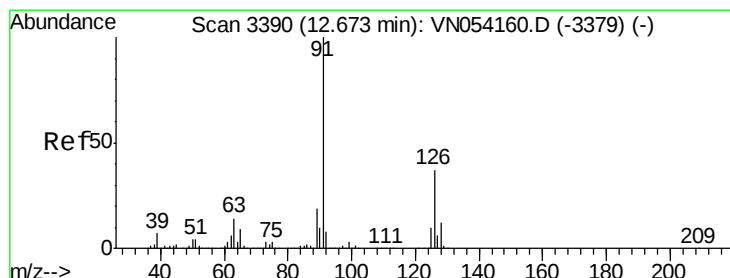
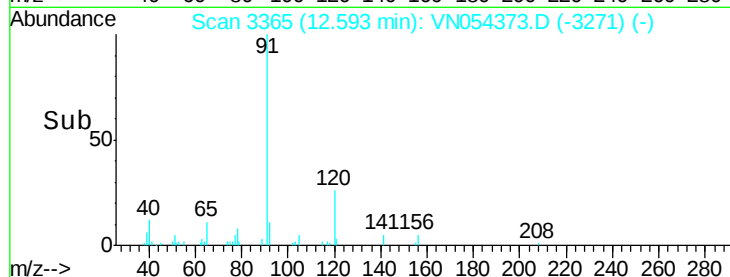
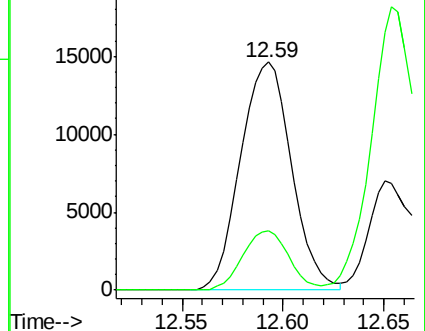
91 100

120 23.7 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.238 ug/l

RT: 12.65 min Scan# 3383

Delta R.T. -0.02 min

Lab File: VN054373.D

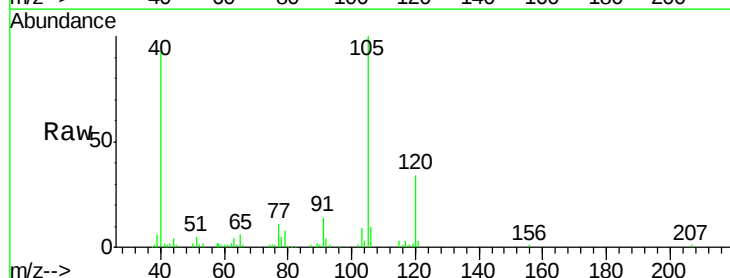
Acq: 17 Mar 2019 8:45

Tgt Ion: 91 Resp: 10864

Ion Ratio Lower Upper

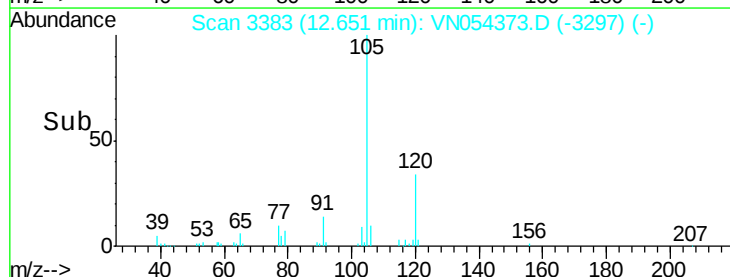
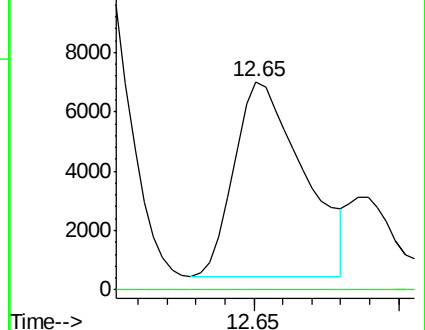
91 100

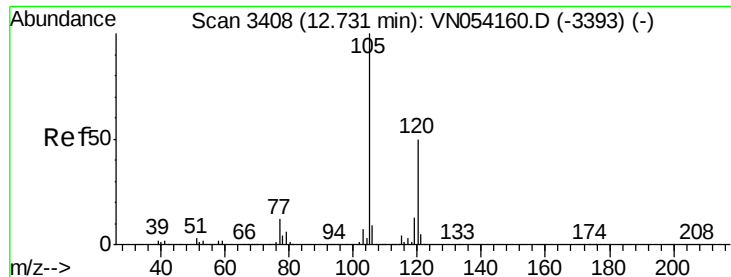
126 0.0 18.7 56.1#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 1.842 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

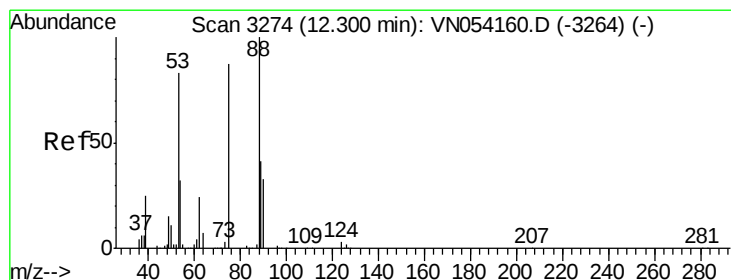
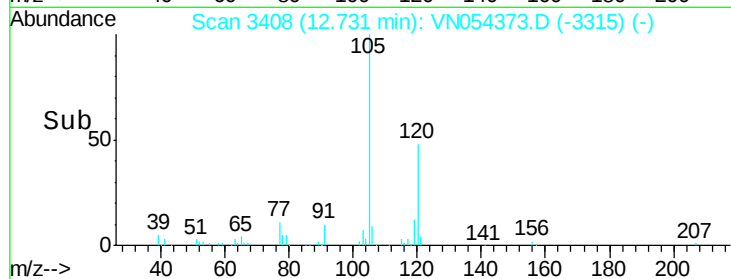
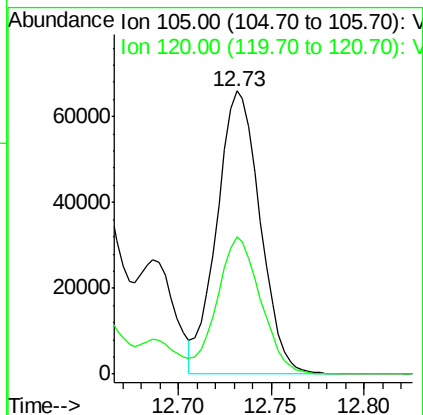
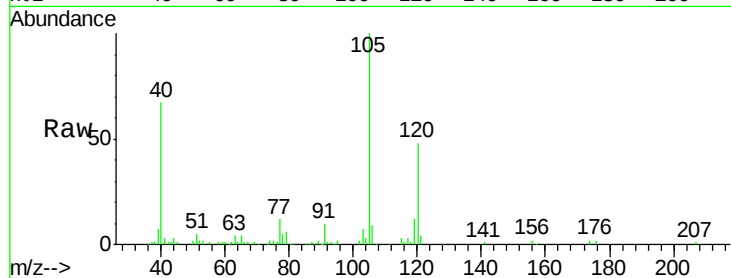
HR-05-031519-A

Tot Ion:105 Resp: 106981

Ion Ratio Lower Upper

105 100

120 48.7 25.0 75.0



#81

trans-1,4-Dichloro-2-butene

Concen: 121.614 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

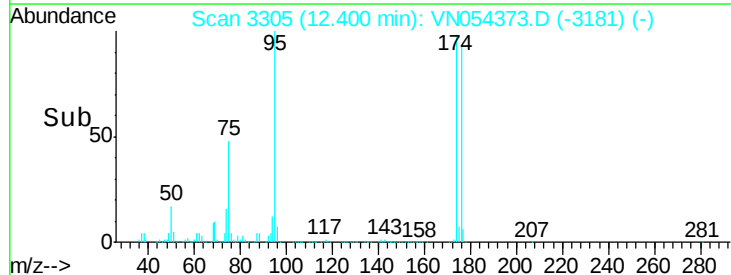
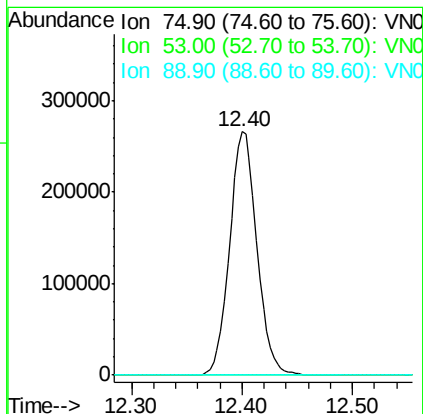
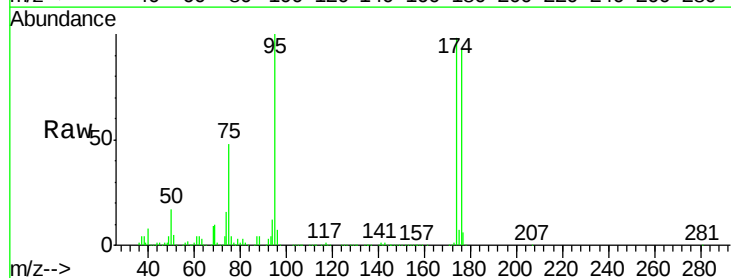
Tgt Ion: 75 Resp: 456564

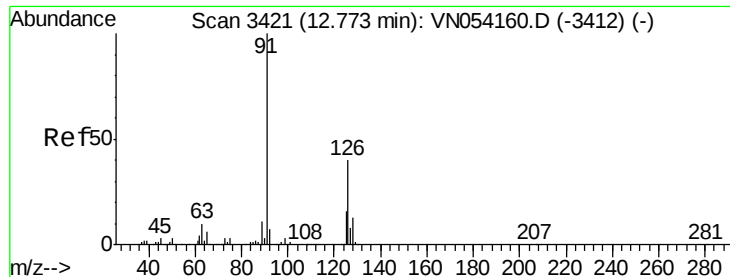
Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#





#82

4-Chlorotoluene

Concen: 0.265 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.04 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

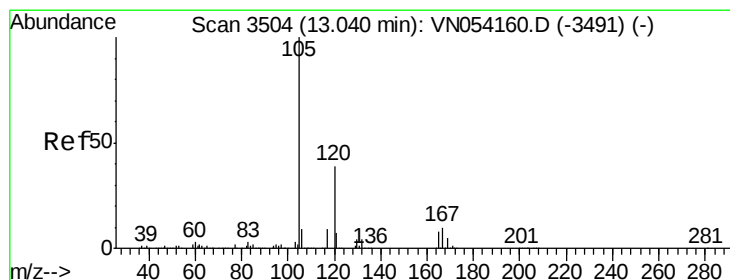
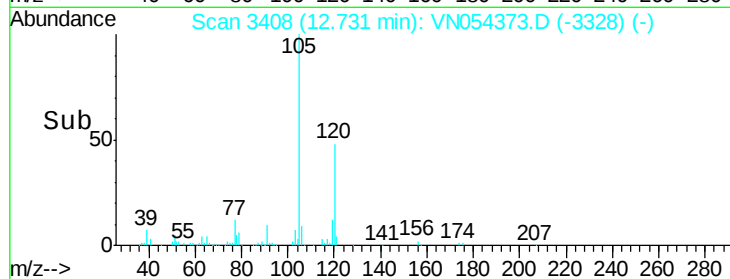
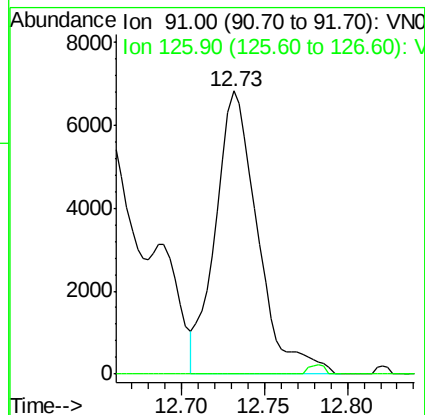
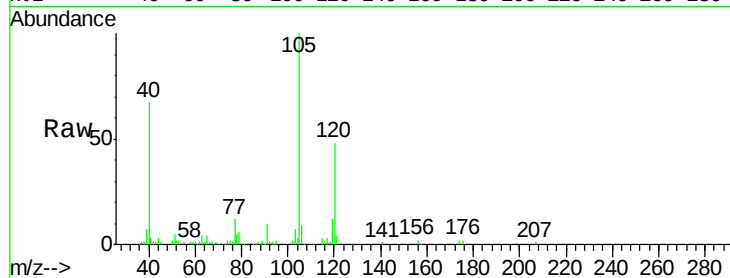
HR-05-031519-A

Tot Ion: 91 Resp: 12048

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.1#



#84

1,2,4-Trimethylbenzene

Concen: 4.288 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054373.D

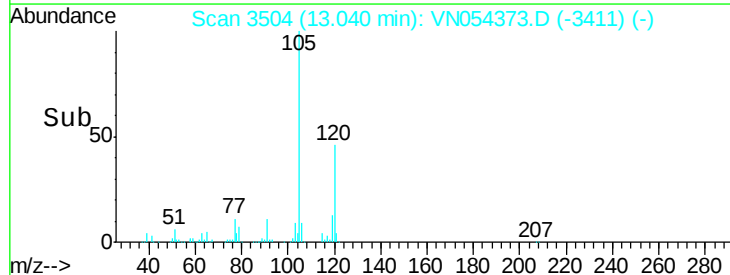
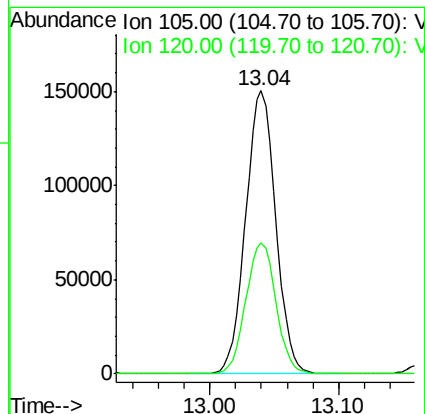
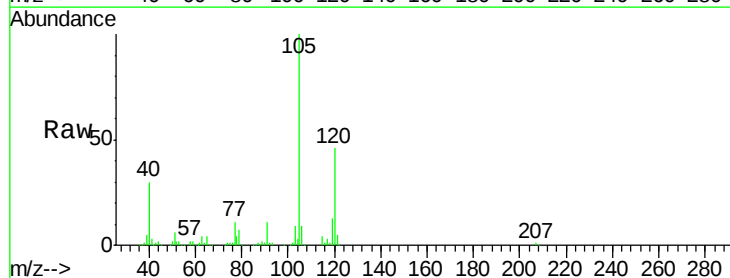
Acq: 17 Mar 2019 8:45

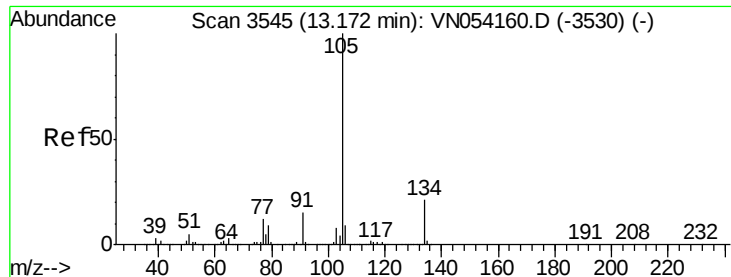
Tgt Ion: 105 Resp: 244343

Ion Ratio Lower Upper

105 100

120 46.5 23.4 70.3





#85

sec-Butylbenzene

Concen: 0.202 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

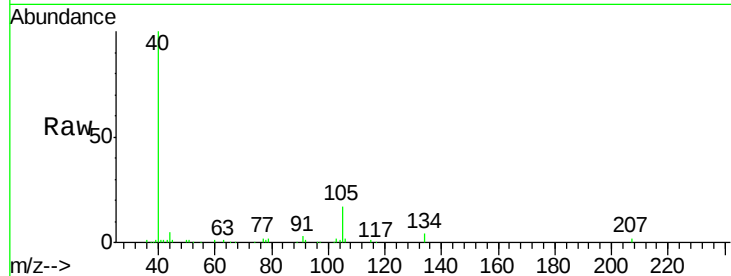
HR-05-031519-A

Tot Ion:105 Resp: 14011

Ion Ratio Lower Upper

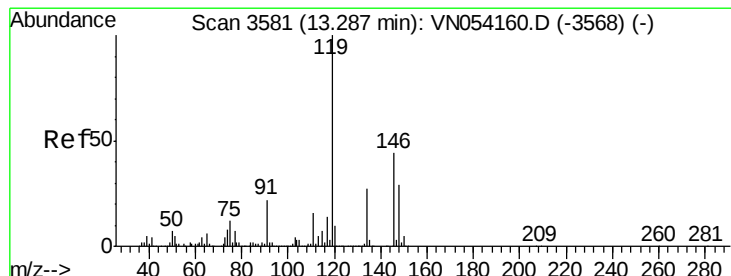
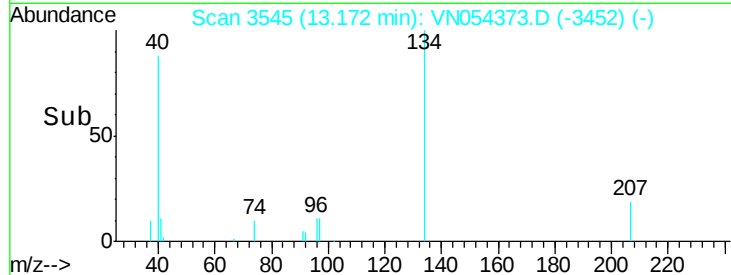
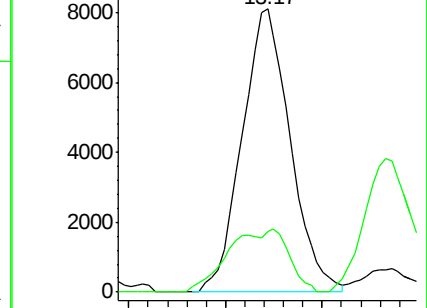
105 100

134 16.8 10.7 32.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 0.265 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

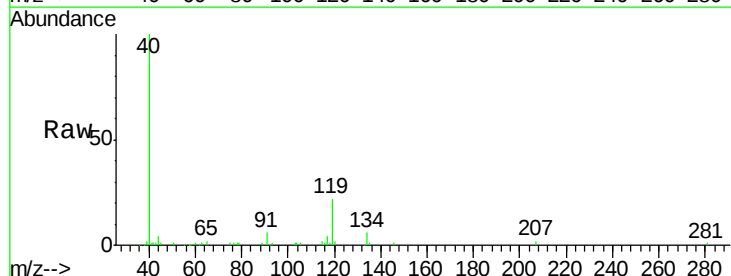
Tgt Ion:119 Resp: 16117

Ion Ratio Lower Upper

119 100

134 26.1 13.6 40.8

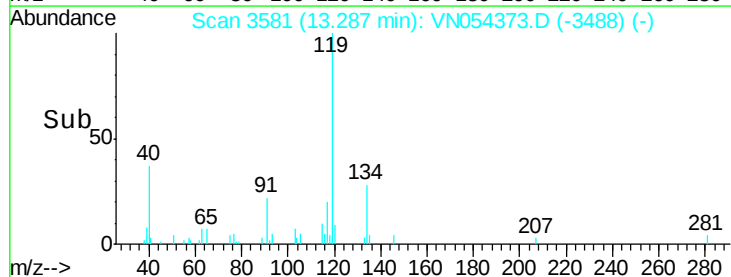
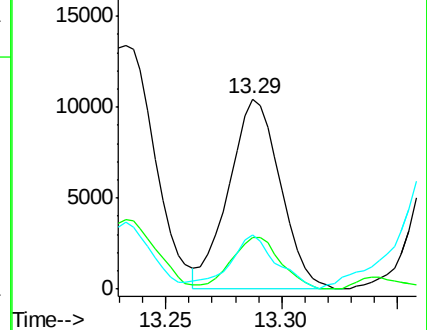
91 26.0 11.1 33.3

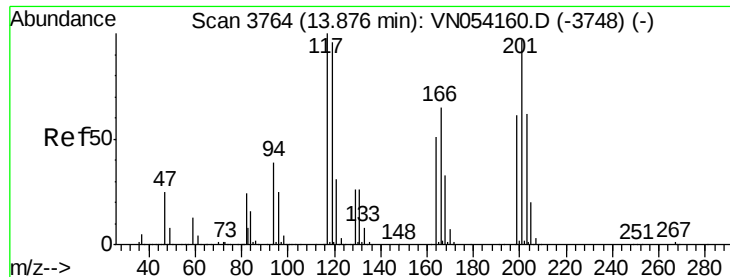


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#90

Hexachloroethane

Concen: 0.522 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

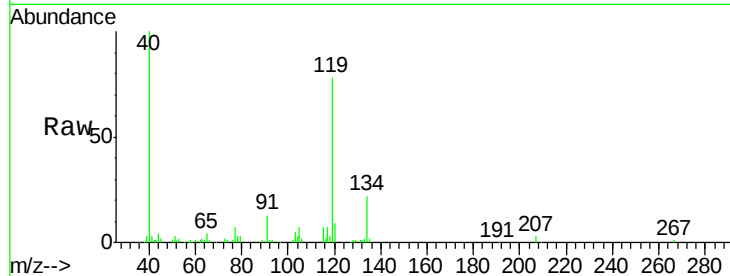
HR-05-031519-A

Tot Ion:117 Resp: 5261

Ion Ratio Lower Upper

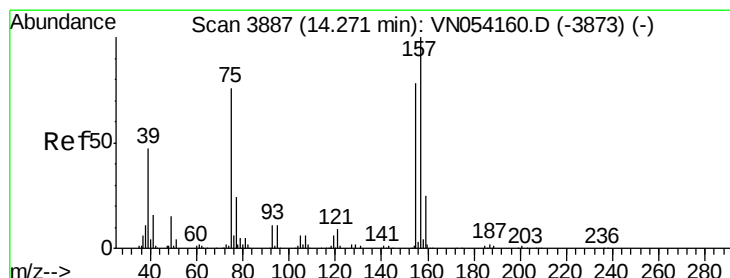
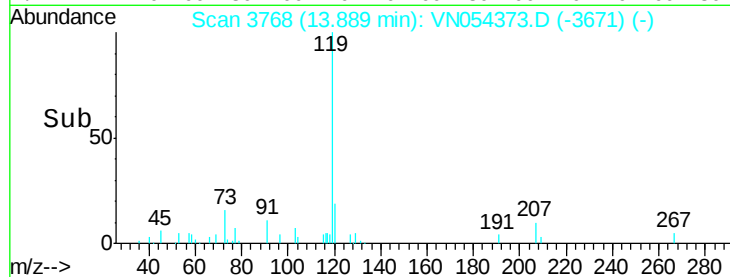
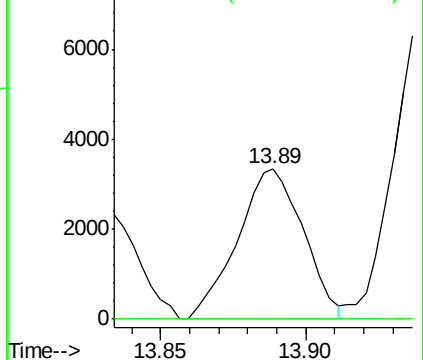
117 100

201 0.0 48.1 144.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.276 ug/l

RT: 14.25 min Scan# 3880

Delta R.T. -0.02 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

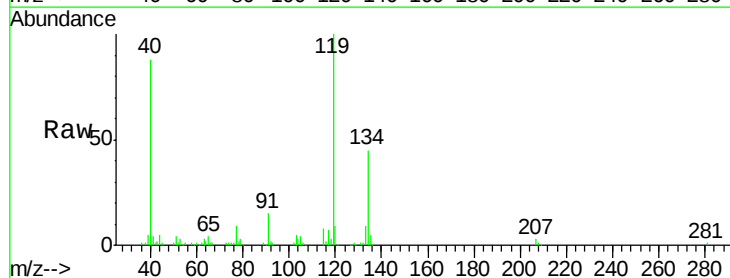
Tgt Ion: 75 Resp: 635

Ion Ratio Lower Upper

75 100

155 0.0 50.1 150.3#

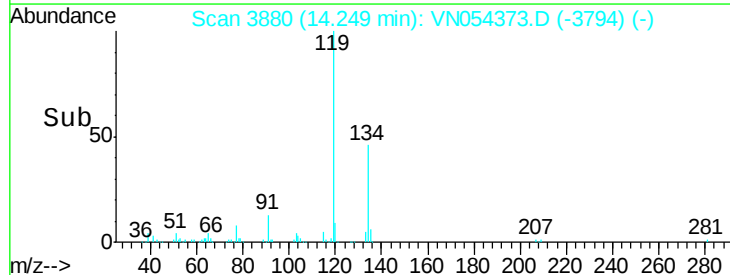
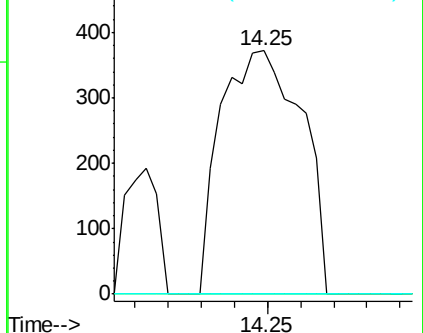
157 0.0 63.1 189.3#

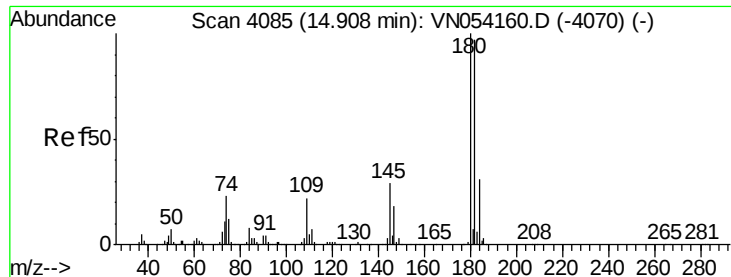


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 2.537 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

Instrument :

MSVOA_N

ClientSampleId :

HR-05-031519-A

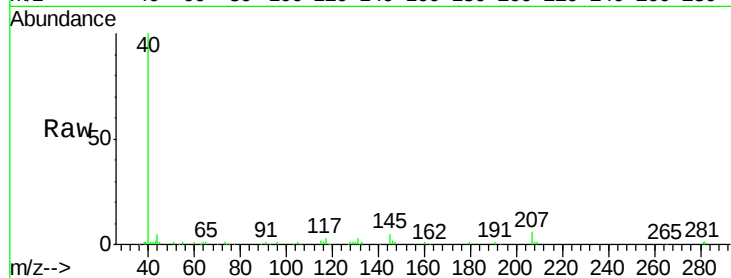
Tot Ion:180 Resp: 402

Ion Ratio Lower Upper

180 100

182 7.5 48.0 144.2#

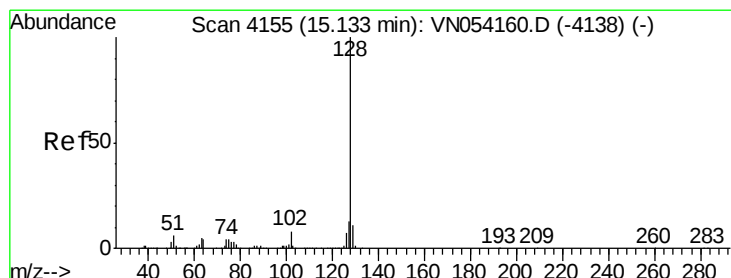
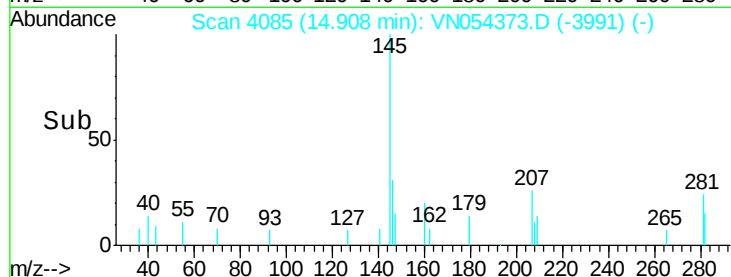
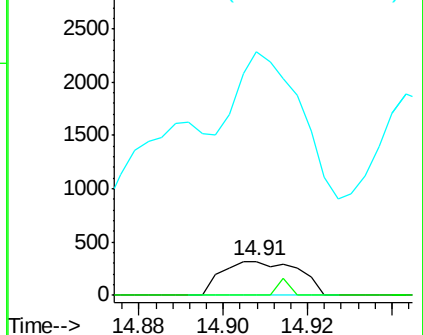
145 369.4 14.2 42.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 5.292 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054373.D

Acq: 17 Mar 2019 8:45

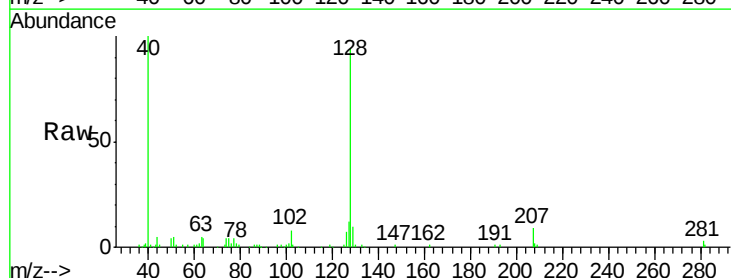
Tgt Ion:128 Resp: 74964

Ion Ratio Lower Upper

128 100

127 13.2 10.1 15.1

129 11.0 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

