

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052819\
 Data File : VN055854.D
 Acq On : 28 May 2019 15:46
 Operator : JC/SP
 Sample : K3073-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TWP-1B

Quant Time: May 28 17:39:37 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	416648	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	588910	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	533117	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	185718	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	196931	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	
35) Dibromofluoromethane	7.59	113	177450	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	
50) Toluene-d8	10.09	98	696599	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
62) 4-Bromofluorobenzene	12.40	95	223420	45.62	ug/l	0.00
Spiked Amount			Recovery	=	91.24%	

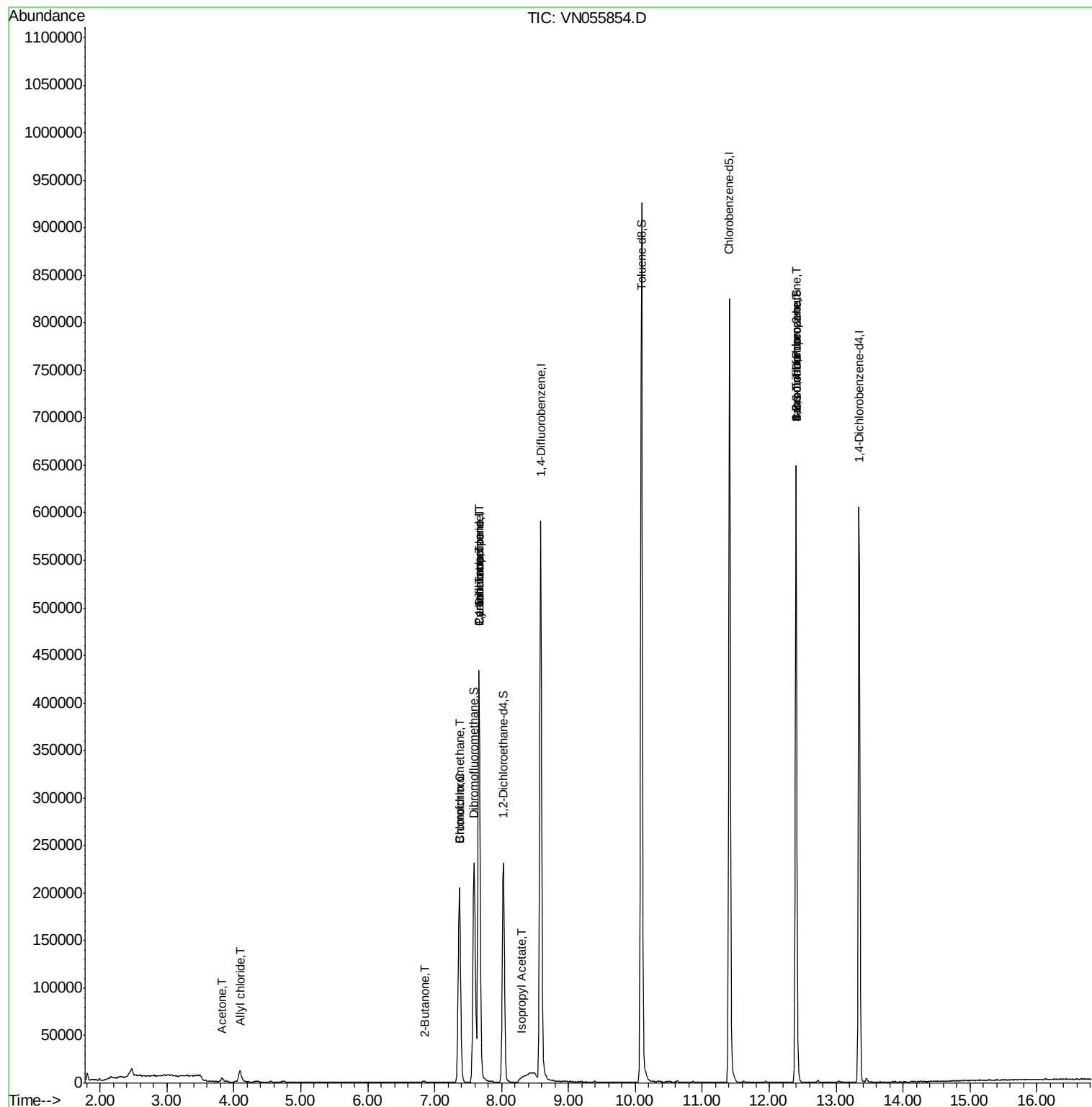
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.09	41	2418	0.398	ug/l #	63
16) Acetone	3.82	43	6712	3.549	ug/l	99
18) Methyl Acetate	4.33	43	2916	Below Cal	#	60
25) 2-Butanone	6.86	43	578	0.219	ug/l #	47
28) Bromochloromethane	7.37	49	15398	4.701	ug/l #	7
30) Chloroform	7.37	83	220849	32.193	ug/l	98
31) Cyclohexane	7.66	56	5836	0.904	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	23748	4.627	ug/l #	48
38) Carbon Tetrachloride	7.66	117	33608	6.287	ug/l #	14
43) Isopropyl Acetate	8.29	43	4258	0.511	ug/l #	53
71) Bromoform	12.40	173	1543	0.425	ug/l #	1
73) Isopropylbenzene	12.26	105	30	Below Cal	#	48
74) N-amyl acetate	12.07	43	95	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	103173	31.071	ug/l #	100
79) 2-Chlorotoluene	12.59	91	192	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	146	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	103173	74.746	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	746	Below Cal		79
85) sec-Butylbenzene	13.04	105	746	Below Cal	#	55

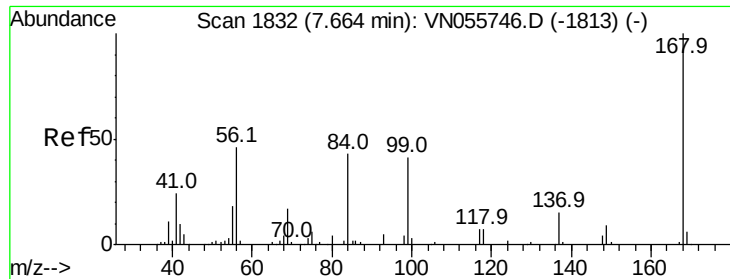
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055854.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

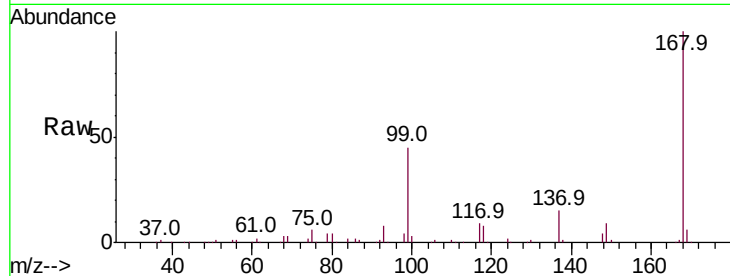
TWP-1B

Tot Ion:168 Resp: 416648

Ion Ratio Lower Upper

168 100

99 45.2 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

200000

150000

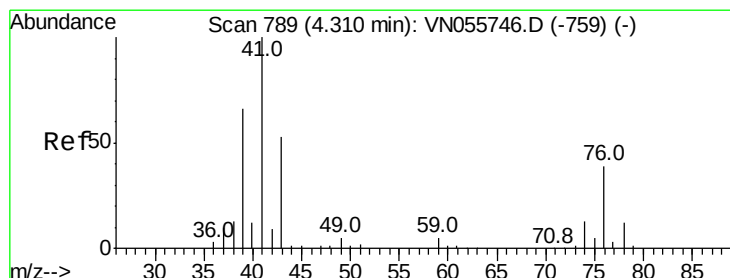
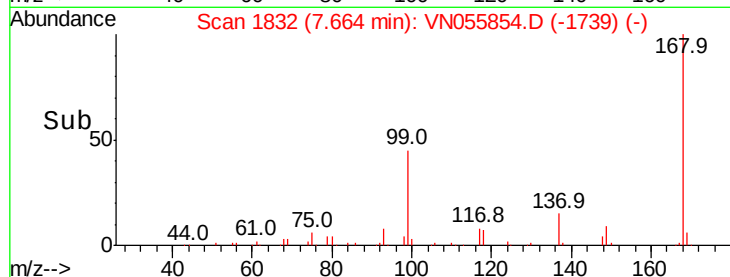
100000

50000

0

7.50 7.60 7.70 7.80

Time-->



#14

Allyl chloride

Concen: 0.398 ug/l

RT: 4.09 min Scan# 721

Delta R.T. -0.22 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

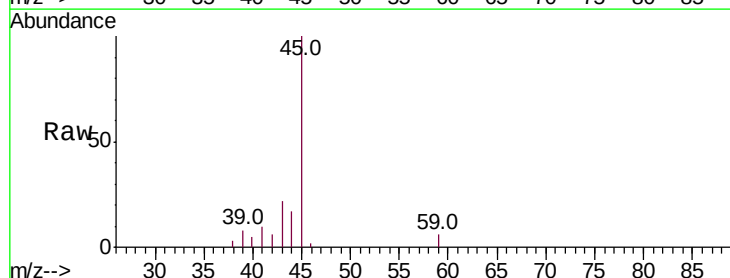
Tgt Ion: 41 Resp: 2418

Ion Ratio Lower Upper

41 100

39 80.7 50.0 75.0#

76 0.0 28.2 42.2#



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

1000

800

600

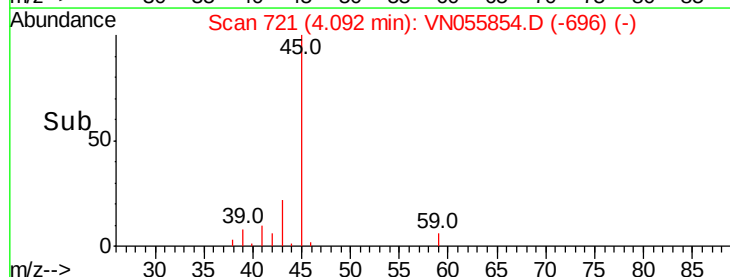
400

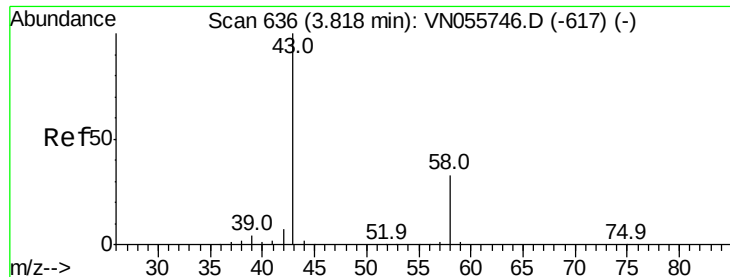
200

0

4.00 4.05 4.10 4.15

Time-->





#16

Acetone

Concen: 3.549 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_N

ClientSampled :

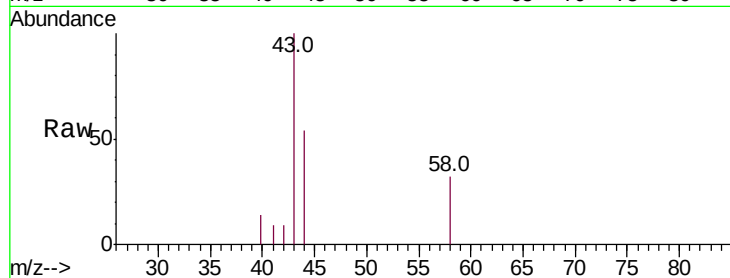
TWP-1B

Tot Ion: 43 Resp: 6712

Ion Ratio Lower Upper

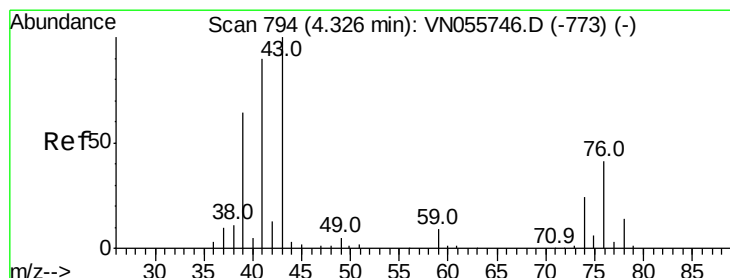
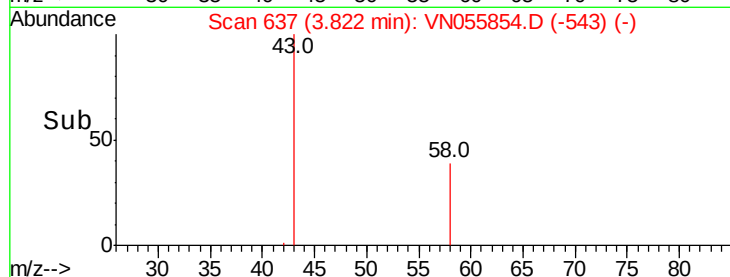
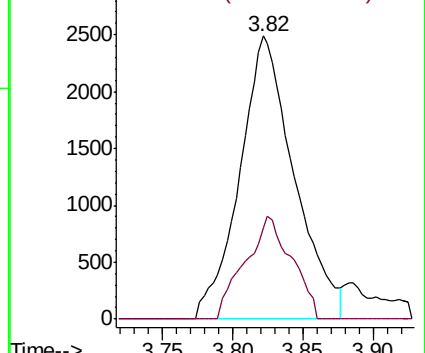
43 100

58 32.4 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: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN055854.D

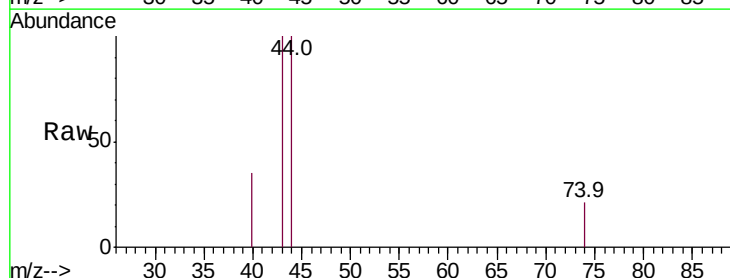
Acq: 28 May 2019 15:46

Tgt Ion: 43 Resp: 2916

Ion Ratio Lower Upper

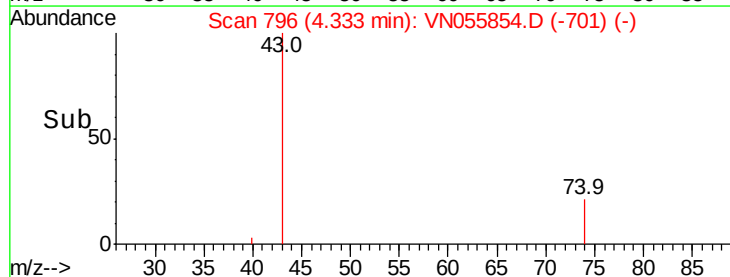
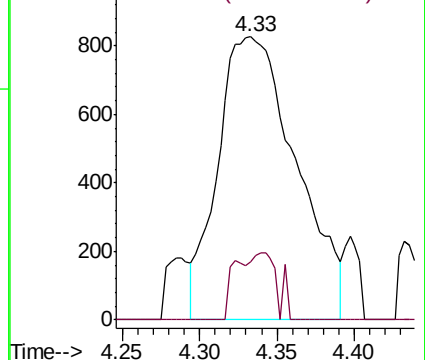
43 100

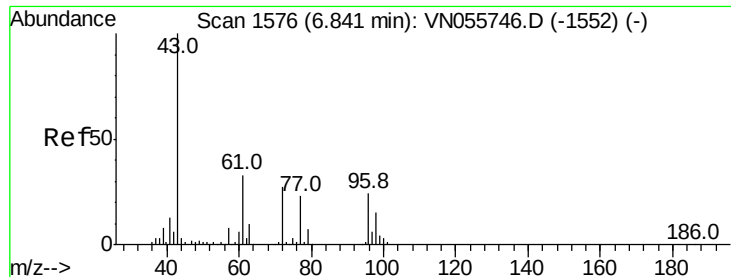
74 4.3 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#25

2-Butanone

Concen: 0.219 ug/l

RT: 6.86 min Scan# 1583

Delta R.T. 0.02 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

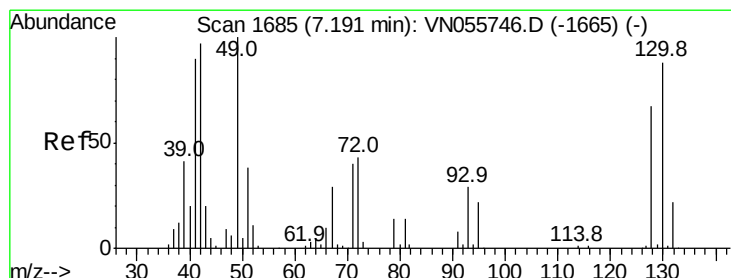
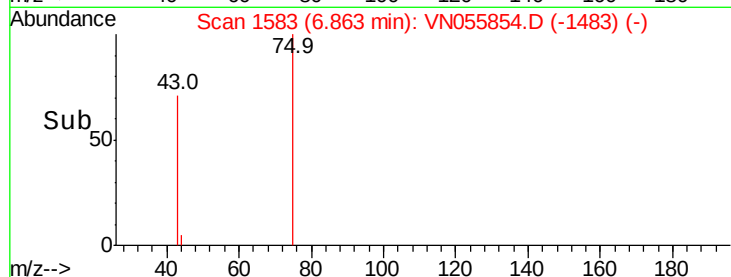
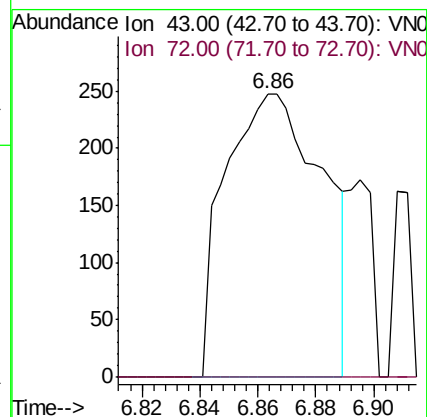
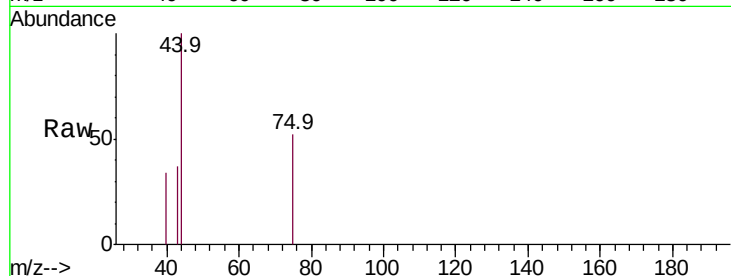
TWP-1B

Tot Ion: 43 Resp: 578

Ion Ratio Lower Upper

43 100

72 0.0 21.9 32.9#



#28

Bromochloromethane

Concen: 4.701 ug/l

RT: 7.37 min Scan# 1740

Delta R.T. 0.18 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

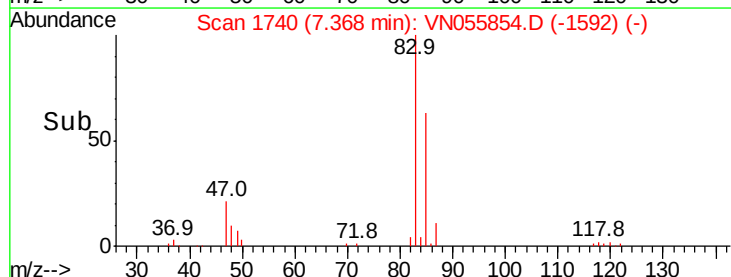
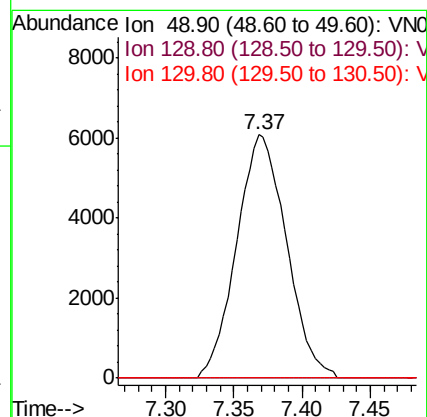
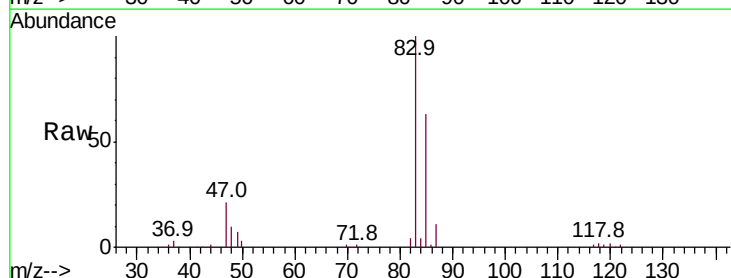
Tgt Ion: 49 Resp: 15398

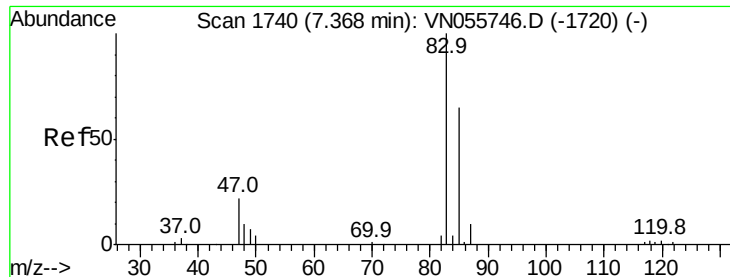
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

130 0.0 71.2 106.8#

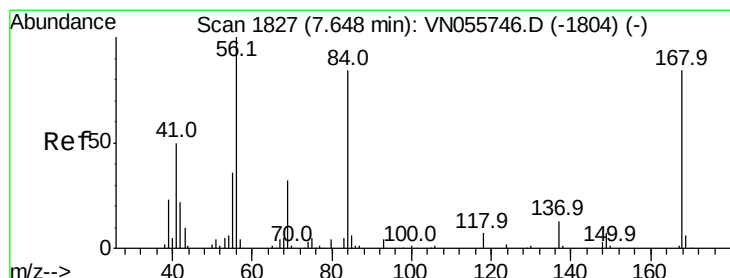
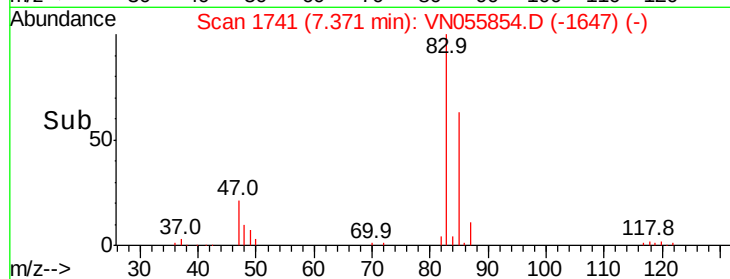
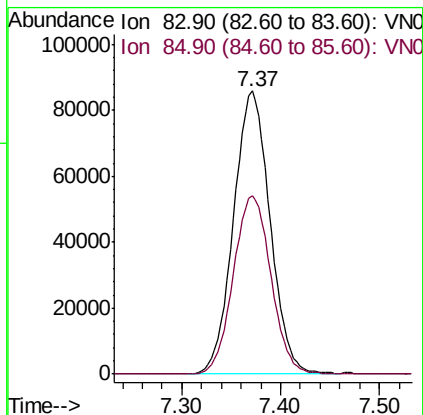
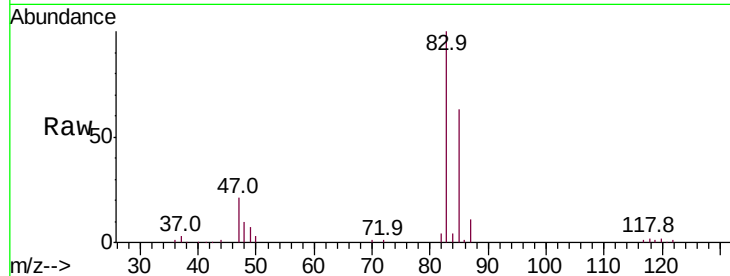




#30
Chloroform
Concen: 32.193 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN055854.D
Acq: 28 May 2019 15:46

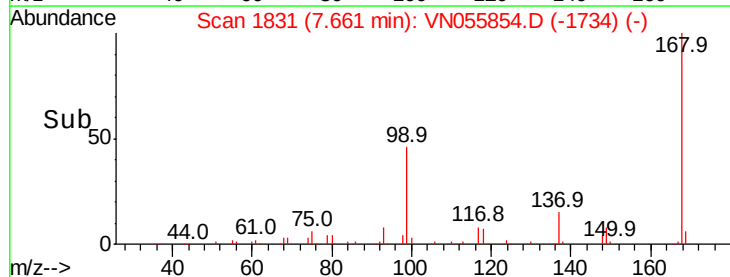
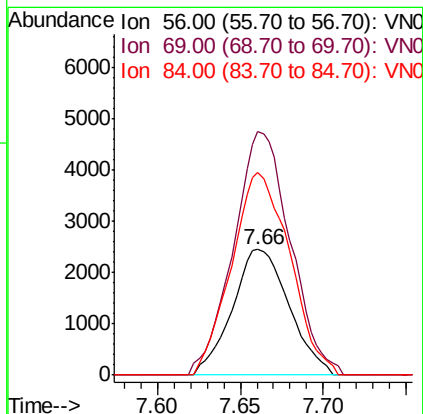
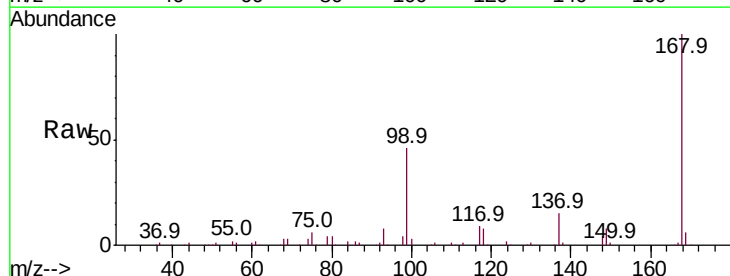
Instrument :
MSVOA_N
ClientSampleId :
TWP-1B

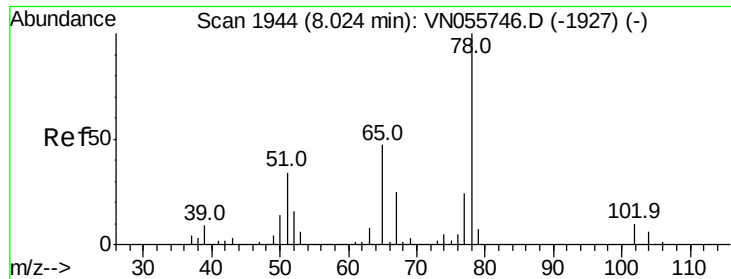
Tot Ion: 83 Resp: 220849
Ion Ratio Lower Upper
83 100
85 63.0 51.8 77.8



#31
Cyclohexane
Concen: 0.904 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN055854.D
Acq: 28 May 2019 15:46

Tgt Ion: 56 Resp: 5836
Ion Ratio Lower Upper
56 100
69 193.6 25.6 38.4#
84 161.5 67.4 101.0#

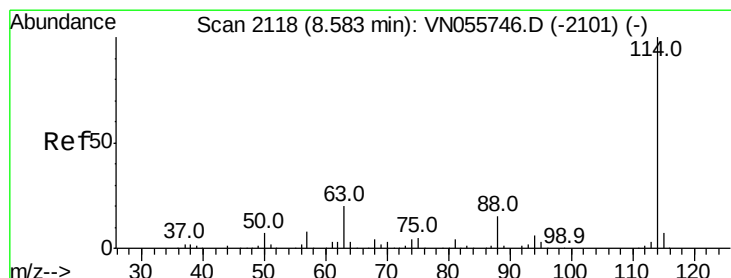
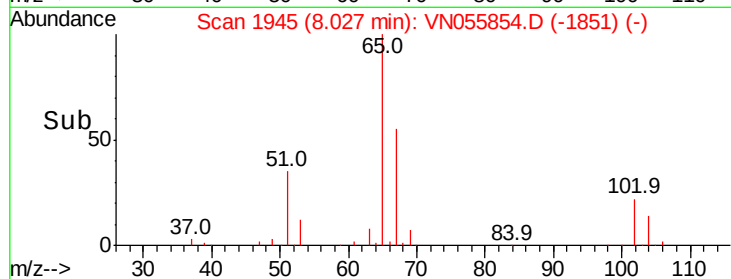
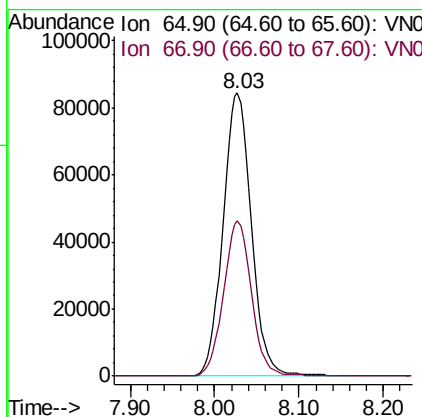
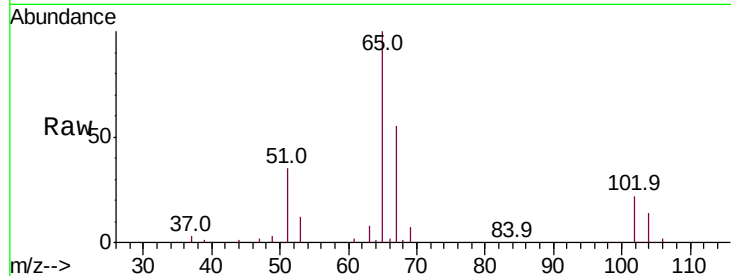




#33
 1,2-Dichloroethane-d4
 Concen: 45.768 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055854.D
 Acq: 28 May 2019 15:46

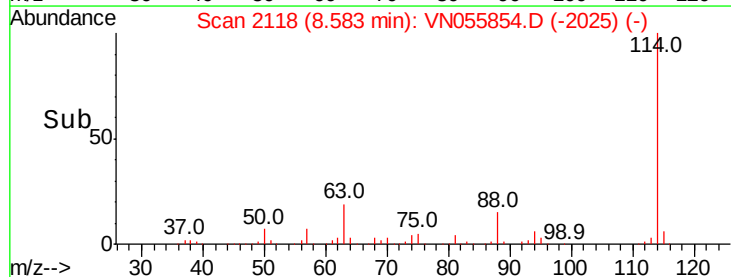
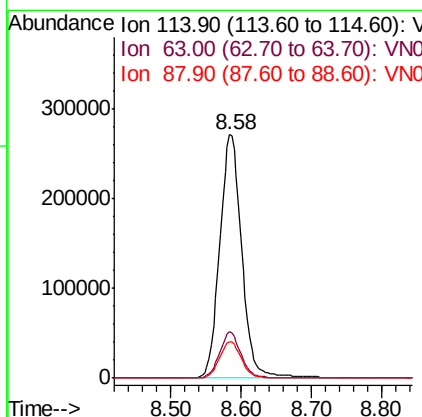
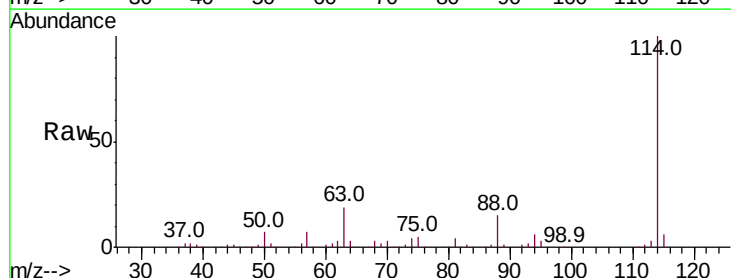
Instrument :
 MSVOA_N
 ClientSampleId :
 TWP-1B

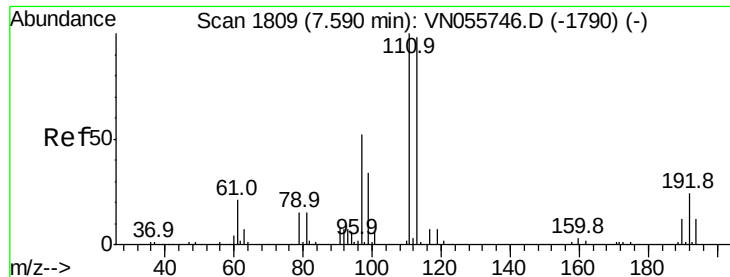
Tot Ion: 65 Resp: 196931
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055854.D
 Acq: 28 May 2019 15:46

Tgt Ion: 114 Resp: 588910
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 39.2
 88 15.1 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.659 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_N

ClientSampled :

TWP-1B

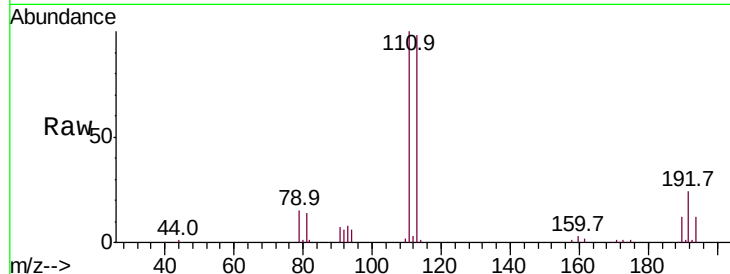
Tot Ion:113 Resp: 177450

Ion Ratio Lower Upper

113 100

111 102.4 81.9 122.9

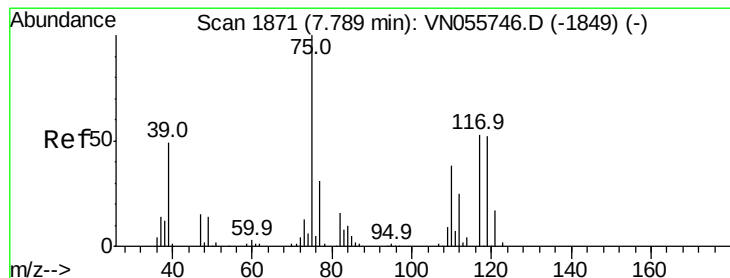
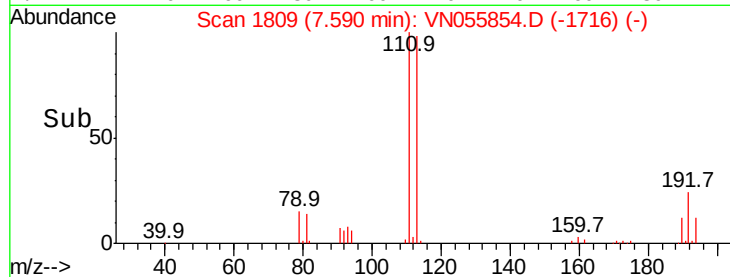
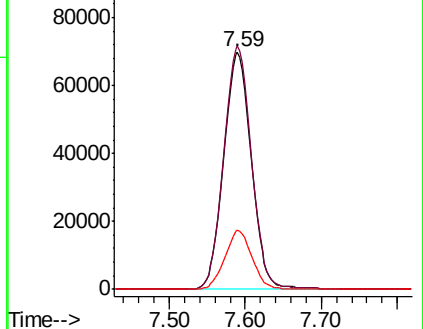
192 24.3 19.5 29.3



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: 4.627 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

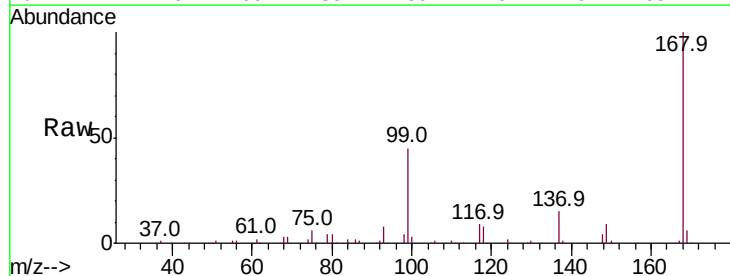
Tgt Ion: 75 Resp: 23748

Ion Ratio Lower Upper

75 100

110 8.7 19.0 57.0#

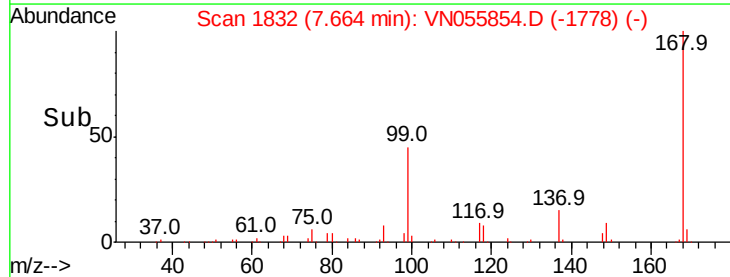
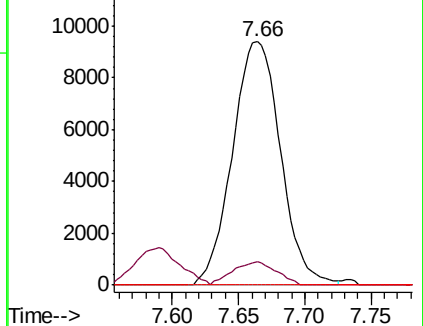
77 0.0 25.1 37.7#

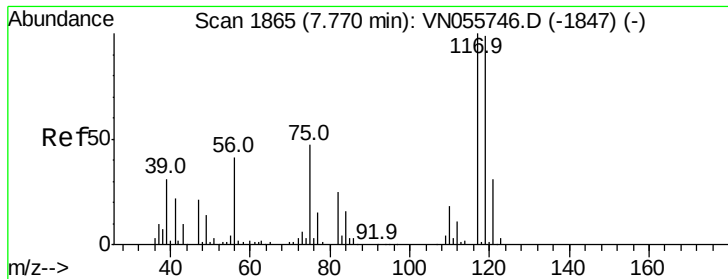


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.287 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

TWP-1B

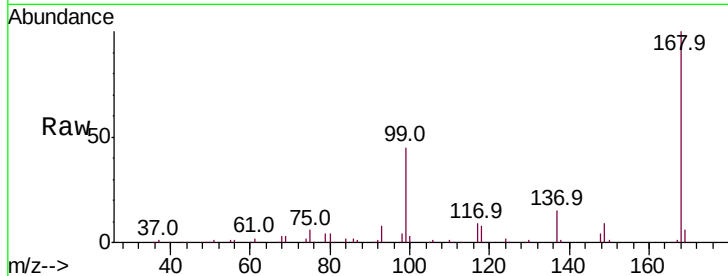
Tot Ion:117 Resp: 33608

Ion Ratio Lower Upper

117 100

119 4.5 79.0 118.6#

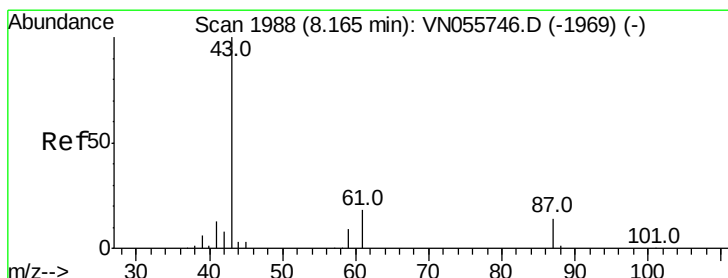
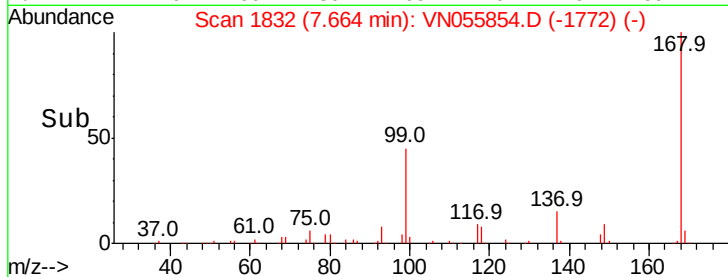
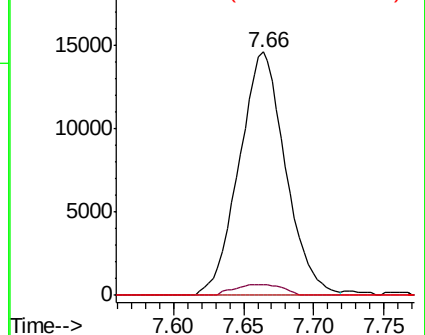
121 0.0 24.7 37.1#



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: 0.511 ug/l

RT: 8.29 min Scan# 2028

Delta R.T. 0.13 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

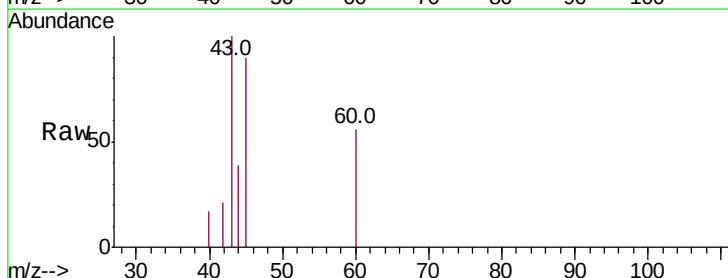
Tgt Ion: 43 Resp: 4258

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

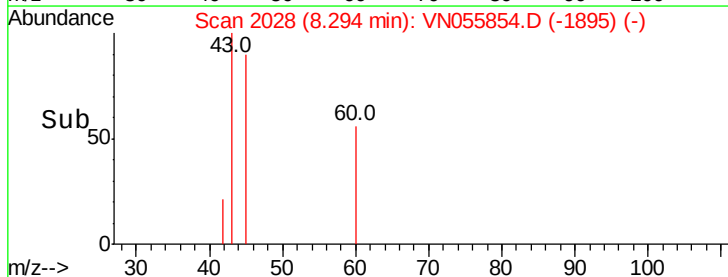
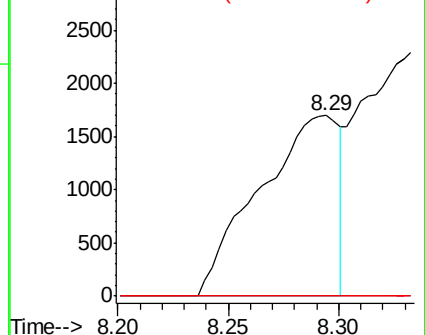
87 0.0 11.4 17.2#

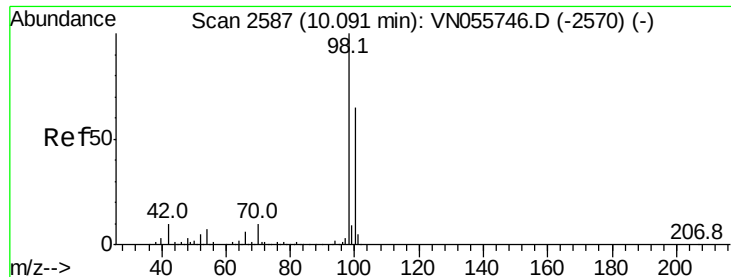


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 48.774 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

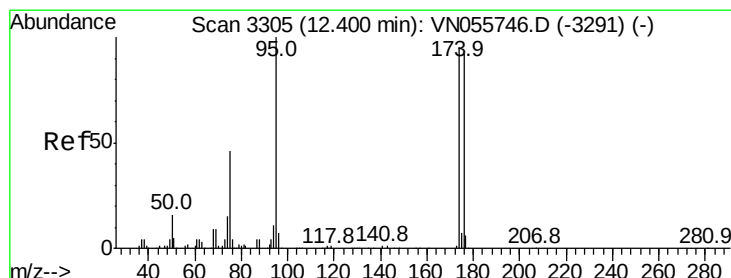
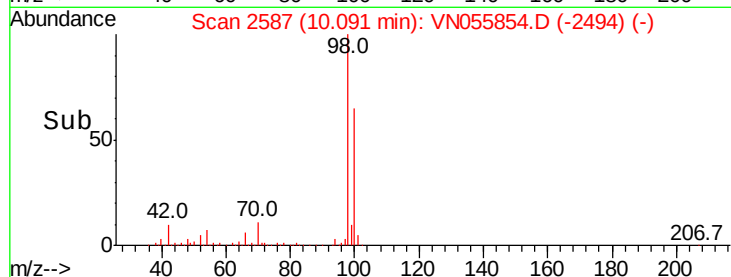
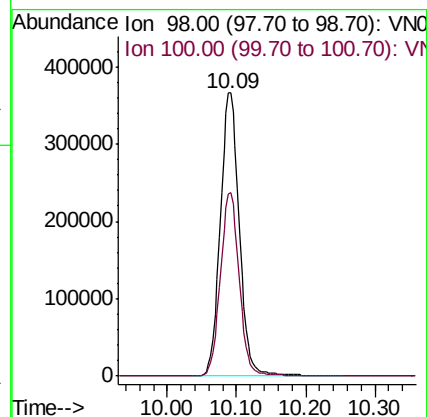
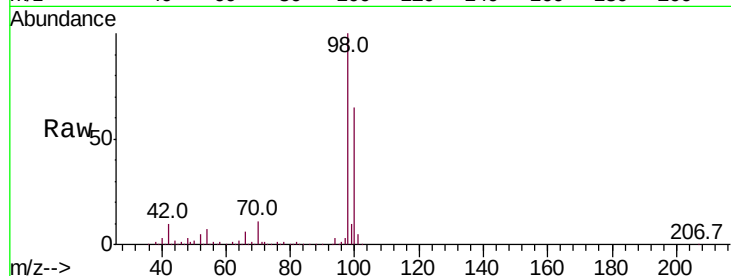
TWP-1B

Tot Ion: 98 Resp: 696599

Ion Ratio Lower Upper

98 100

100 64.2 51.9 77.9



#62

4-Bromofluorobenzene

Concen: 45.622 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

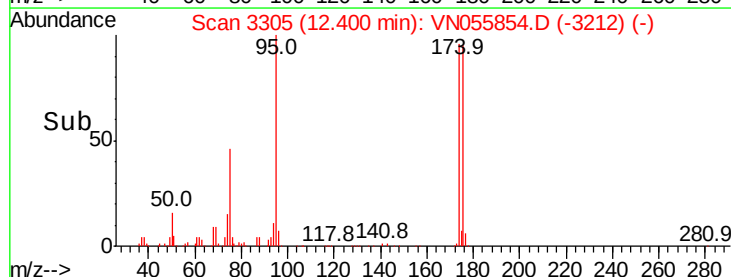
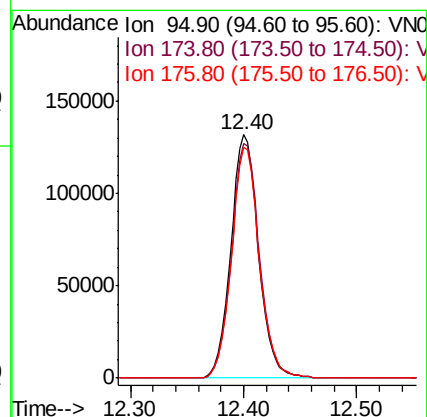
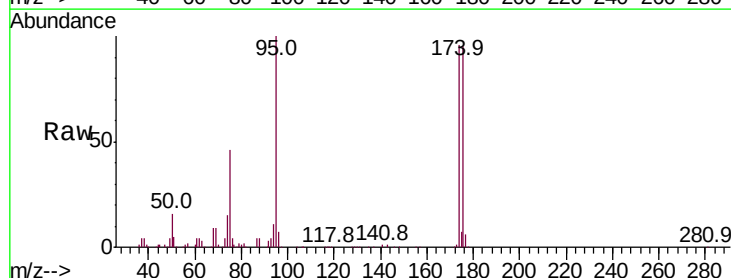
Tgt Ion: 95 Resp: 223420

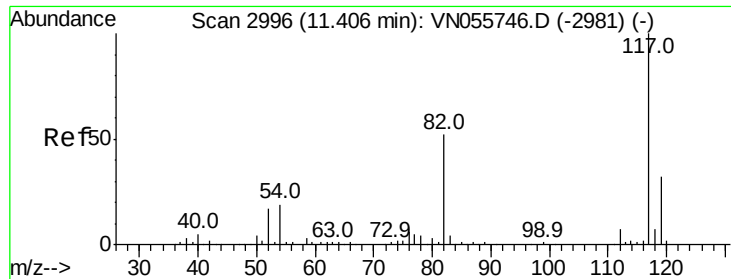
Ion Ratio Lower Upper

95 100

174 97.8 0.0 191.0

176 95.4 0.0 185.2

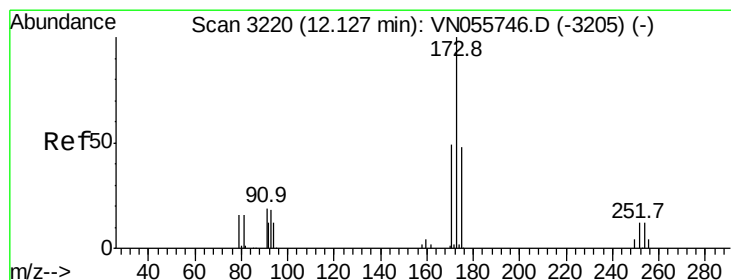
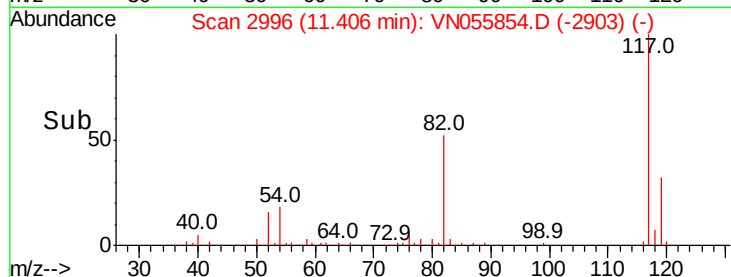
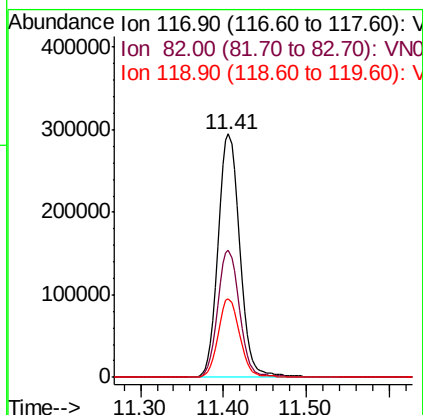
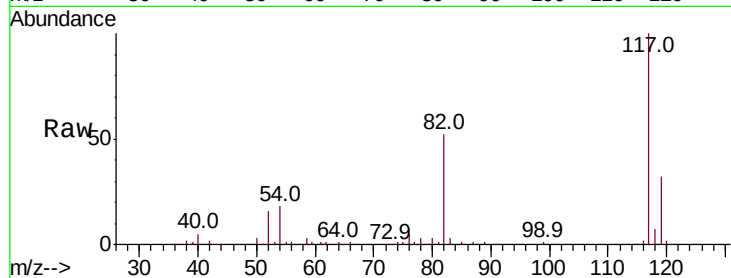




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055854.D
Acq: 28 May 2019 15:46

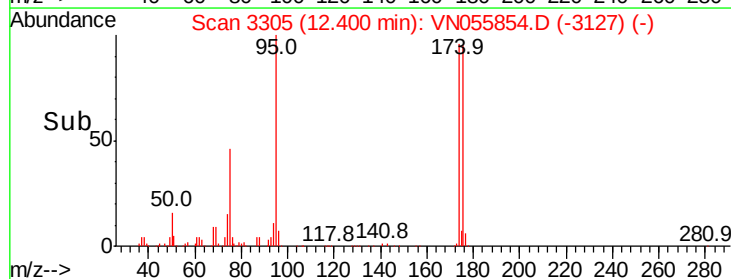
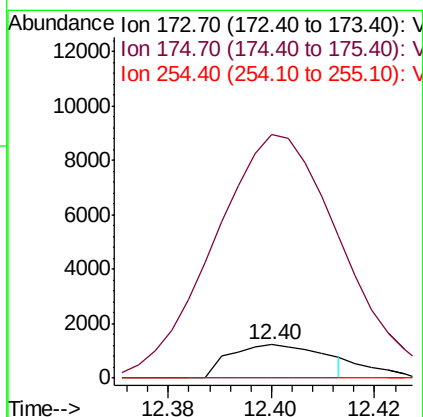
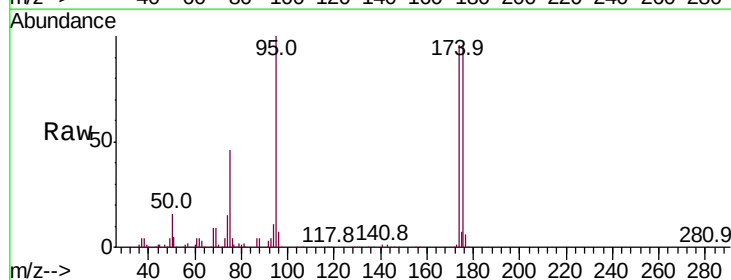
Instrument :
MSVOA_N
ClientSampleId :
TWP-1B

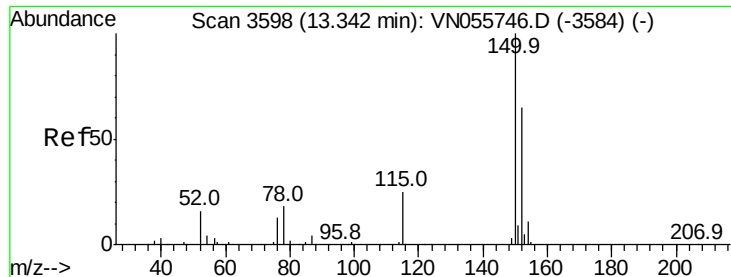
Tot Ion:117 Resp: 533117
Ion Ratio Lower Upper
117 100
82 52.1 41.8 62.8
119 32.4 25.4 38.0



#71
Bromoform
Concen: 0.425 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN055854.D
Acq: 28 May 2019 15:46

Tgt Ion:173 Resp: 1543
Ion Ratio Lower Upper
173 100
175 865.5 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_N

ClientSampled :

TWP-1B

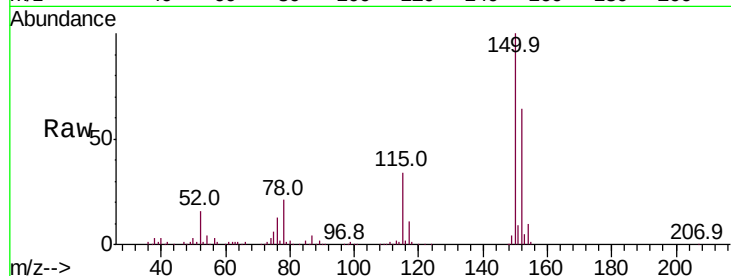
Tot Ion:152 Resp: 185718

Ion Ratio Lower Upper

152 100

115 52.7 27.0 81.0

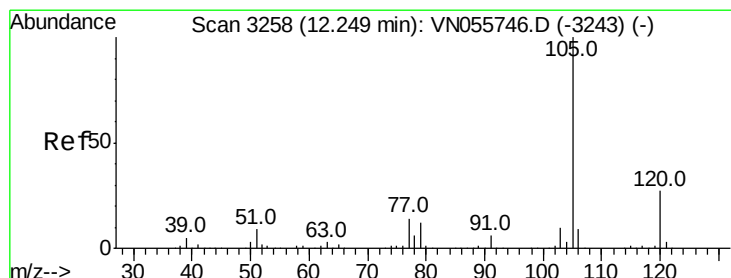
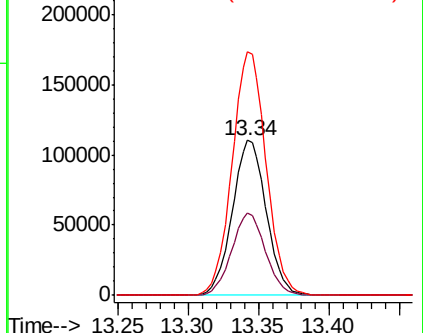
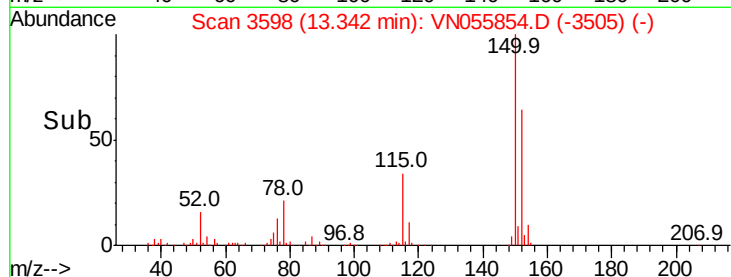
150 157.2 0.0 343.2



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: 12.26 min Scan# 3260

Delta R.T. 0.01 min

Lab File: VN055854.D

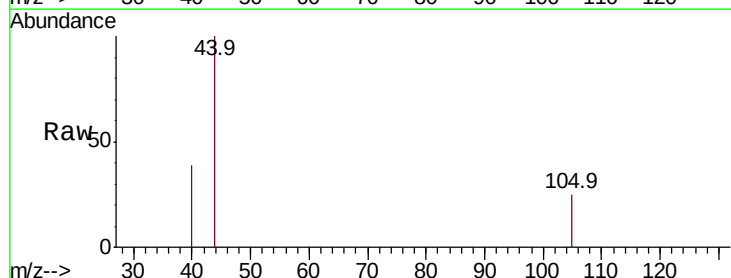
Acq: 28 May 2019 15:46

Tgt Ion:105 Resp: 30

Ion Ratio Lower Upper

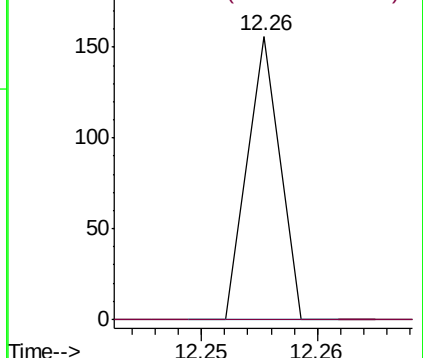
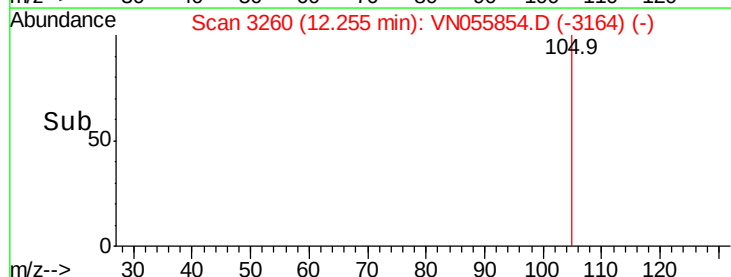
105 100

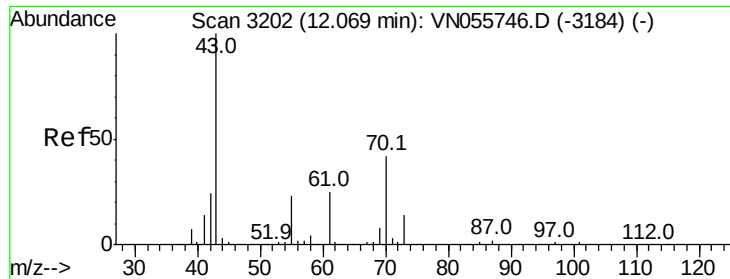
120 0.0 13.6 40.7#



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: 12.07 min Scan# 3201

Delta R.T. -0.00 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_N

ClientSampled :

TWP-1B

Tot Ion: 43 Resp: 95

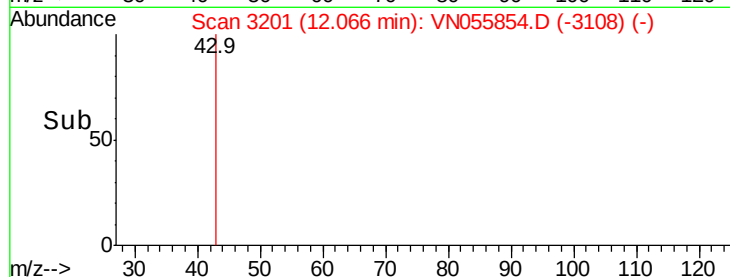
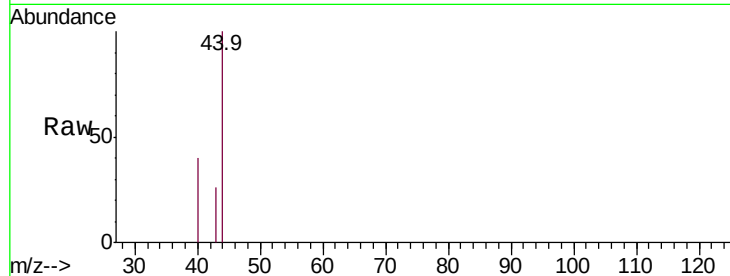
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

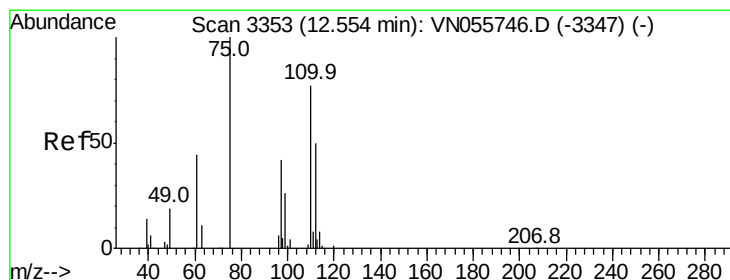
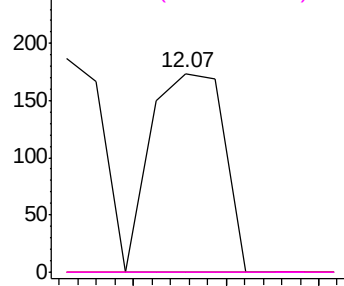


Abundance Ion 43.00 (42.70 to 43.70): VN0

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



#76

1,2,3-Trichloropropane

Concen: 31.071 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055854.D

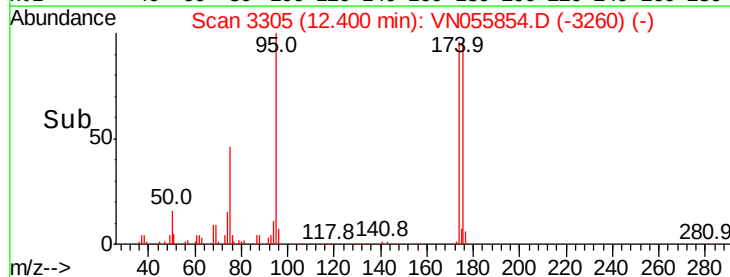
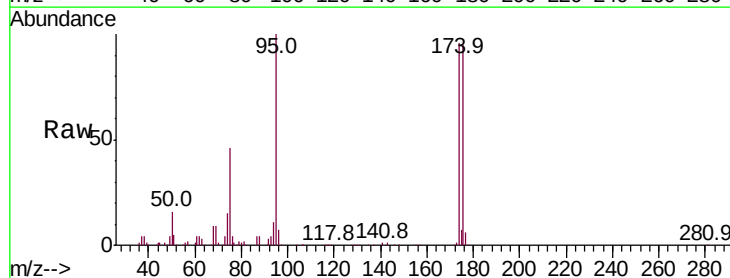
Acq: 28 May 2019 15:46

Tgt Ion: 75 Resp: 103173

Ion Ratio Lower Upper

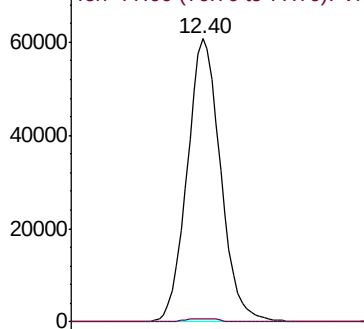
75 100

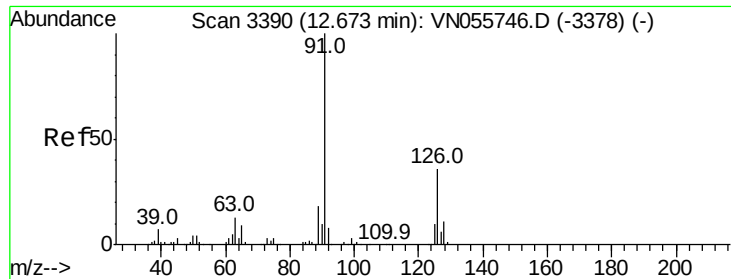
77 1.2 0.0 0.0#



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: 12.59 min Scan# 3364

Delta R.T. -0.08 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_N

ClientSampled :

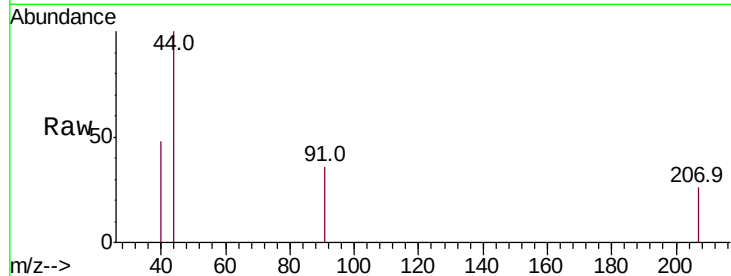
TWP-1B

Tot Ion: 91 Resp: 192

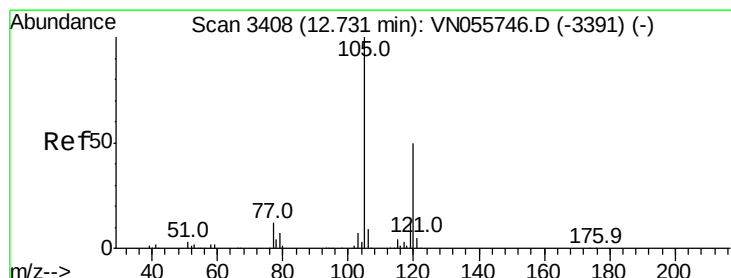
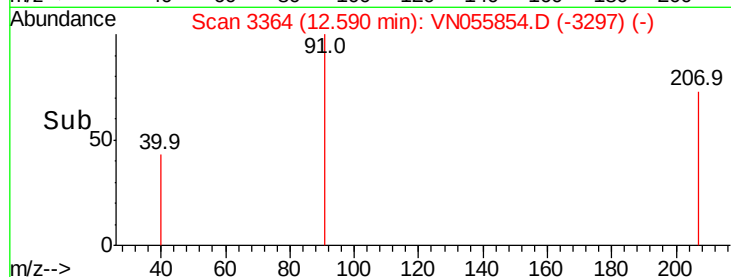
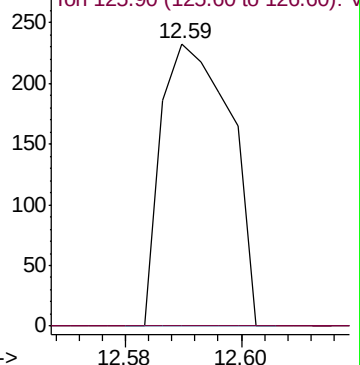
Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN055746.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055854.D

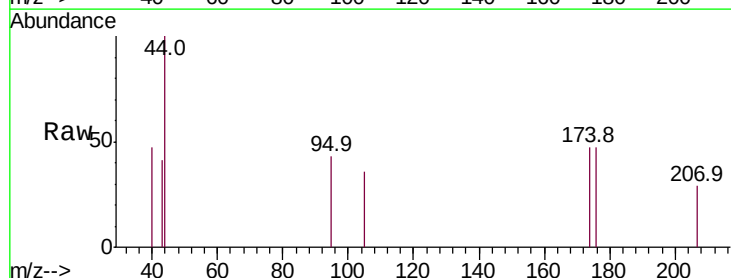
Acq: 28 May 2019 15:46

Tgt Ion: 105 Resp: 146

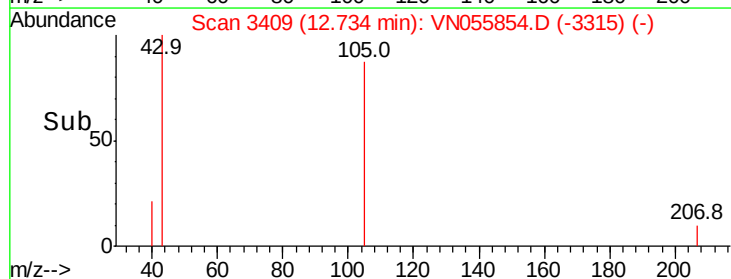
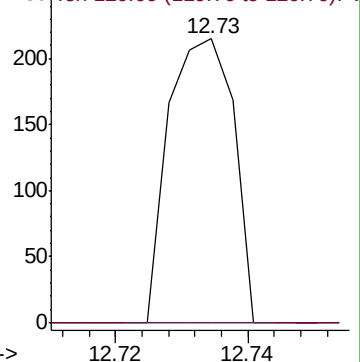
Ion Ratio Lower Upper

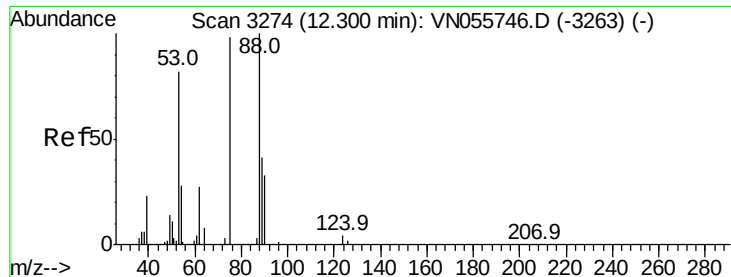
105 100

120 0.0 24.7 74.1#



Abundance Ion 105.00 (104.70 to 105.70): VN055746.D (-3391) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 74.746 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_N

ClientSampled :

TWP-1B

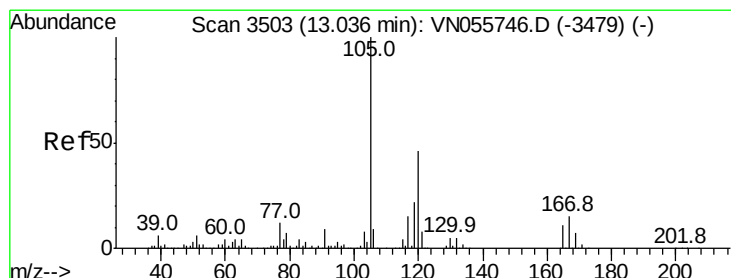
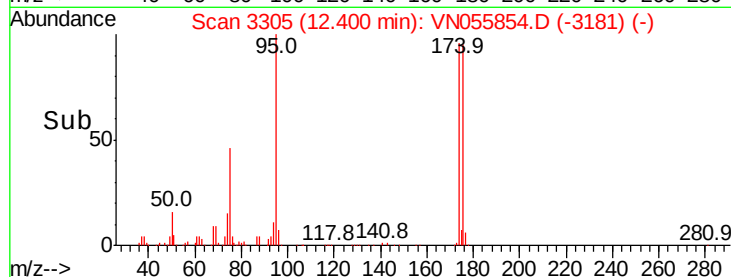
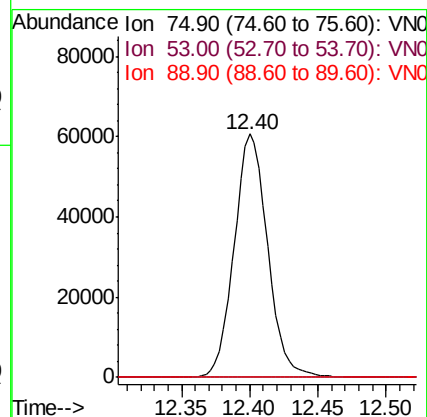
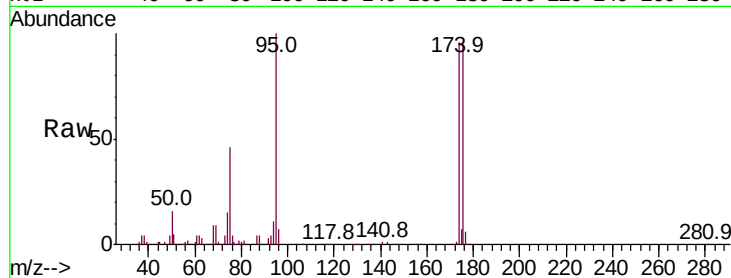
Tot Ion: 75 Resp: 103173

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# 3504

Delta R.T. 0.00 min

Lab File: VN055854.D

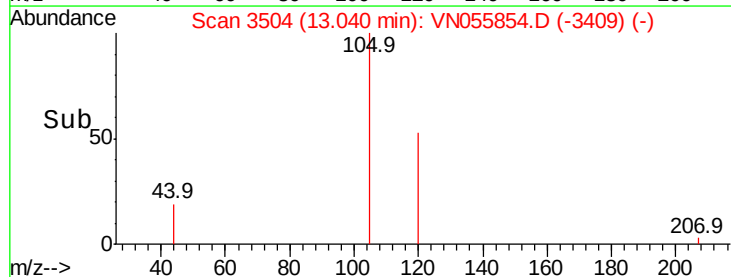
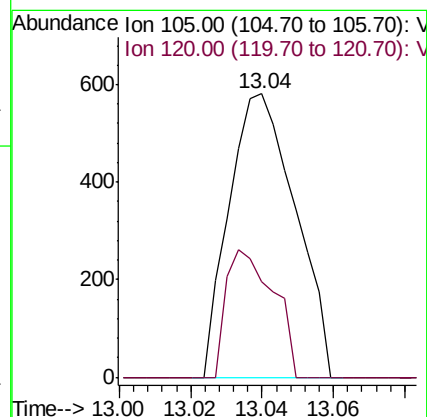
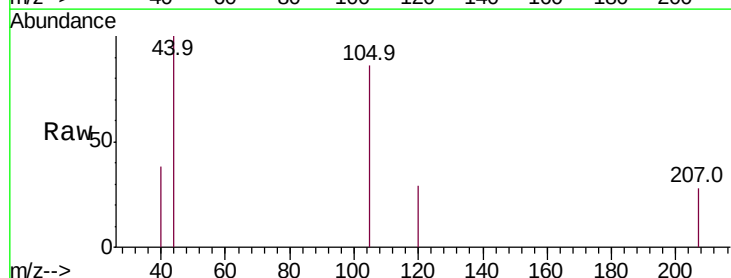
Acq: 28 May 2019 15:46

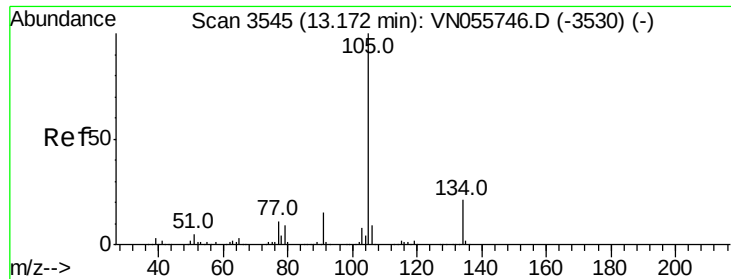
Tgt Ion: 105 Resp: 746

Ion Ratio Lower Upper

105 100

120 32.0 23.0 69.0





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3504

Delta R.T. -0.13 min

Lab File: VN055854.D

Acq: 28 May 2019 15:46

Instrument :

MSVOA_N

ClientSampleId :

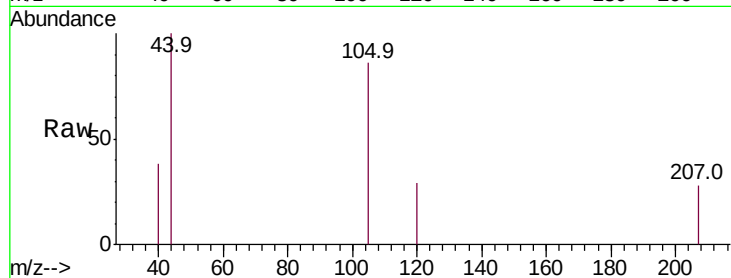
TWP-1B

Tot Ion:105 Resp: 746

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

