

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052819\
 Data File : VN055841.D
 Acq On : 28 May 2019 10:20
 Operator : JC/SP
 Sample : K3037-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20190522

Quant Time: May 28 17:36:51 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	430942	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	614255	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	557314	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	193570	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	201474	45.27	ug/l	0.00
Spiked Amount			Recovery	=	90.54%	
35) Dibromofluoromethane	7.59	113	185220	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
50) Toluene-d8	10.09	98	737466	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
62) 4-Bromofluorobenzene	12.40	95	234806	45.97	ug/l	0.00
Spiked Amount			Recovery	=	91.94%	

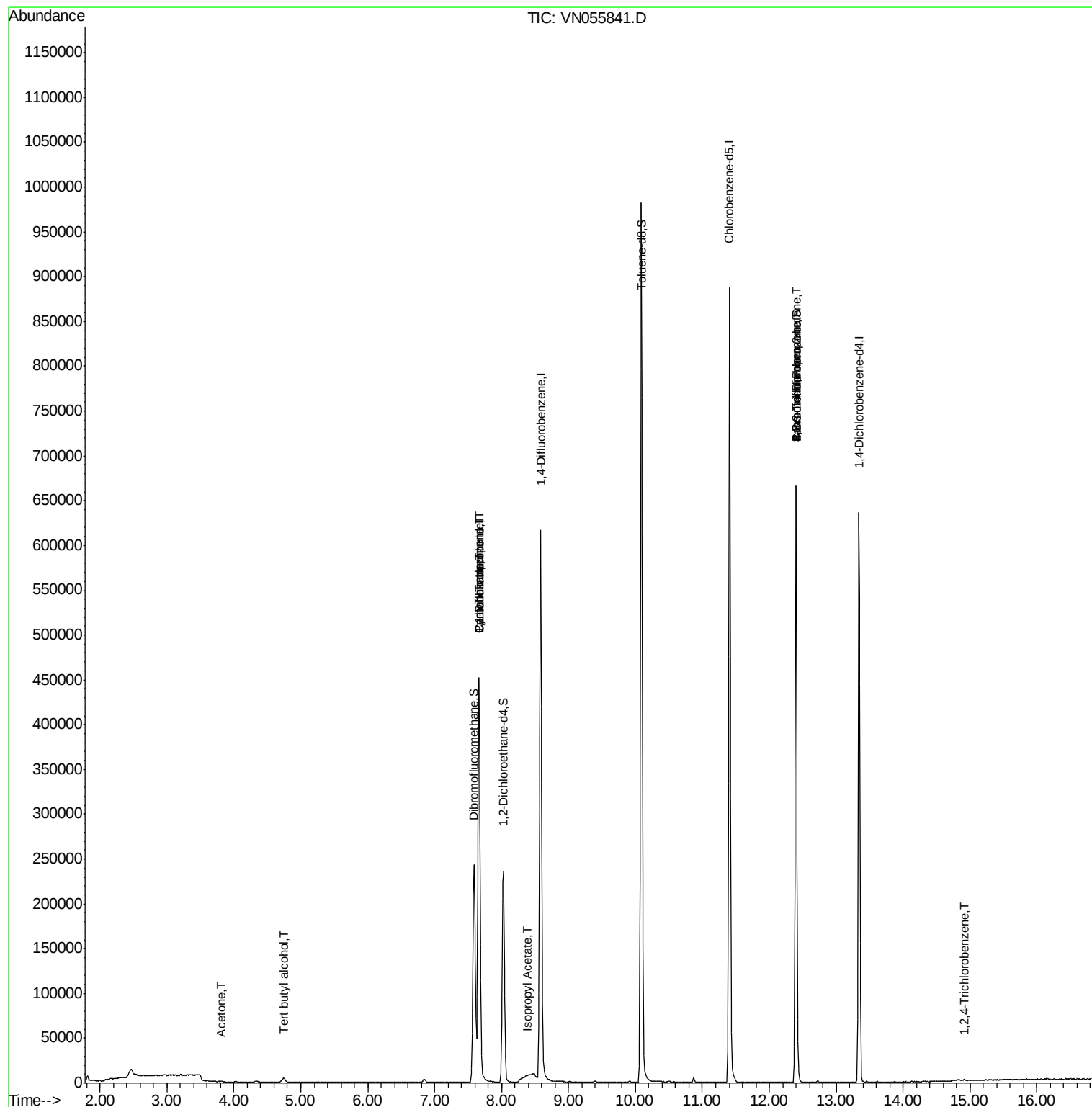
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	4721	5.552	ug/l #	74
16) Acetone	3.82	43	970	0.496	ug/l #	41
18) Methyl Acetate	4.33	43	2384	Below Cal	#	62
31) Cyclohexane	7.66	56	6076	0.910	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24619	4.599	ug/l #	48
38) Carbon Tetrachloride	7.66	117	34760	6.234	ug/l #	15
43) Isopropyl Acetate	8.37	43	12765	1.468	ug/l #	53
71) Bromoform	12.40	173	1215	0.320	ug/l #	1
73) Isopropylbenzene	12.25	105	29	Below Cal	#	48
74) N-amyl acetate	12.07	43	261	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	107775	31.148	ug/l #	100
79) 2-Chlorotoluene	12.59	91	283	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	150	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	107775	74.913	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	488	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	143	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.91	180	242	3.697	ug/l #	82

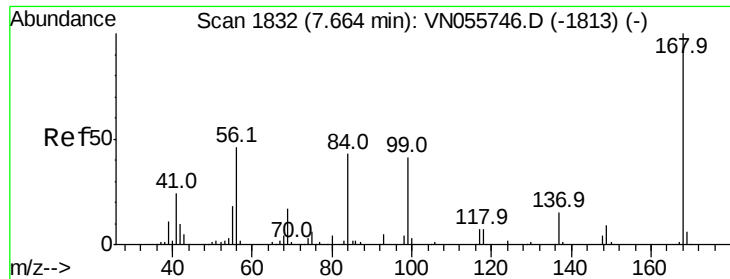
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

Instrument :

MSVOA_N

ClientSampleId :

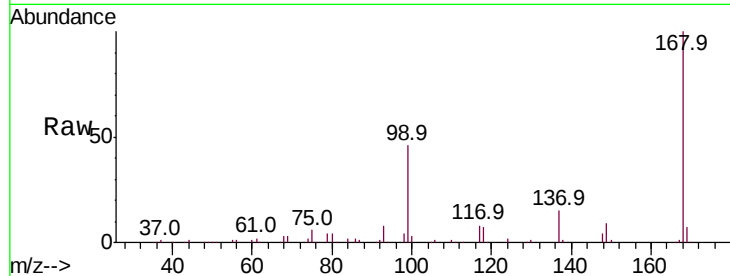
TB-20190522

Tot Ion:168 Resp: 430942

Ion Ratio Lower Upper

168 100

99 46.1 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

150000

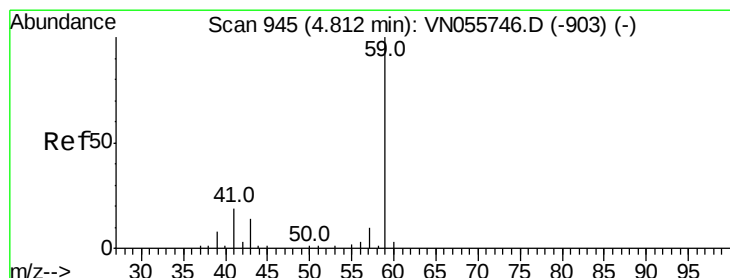
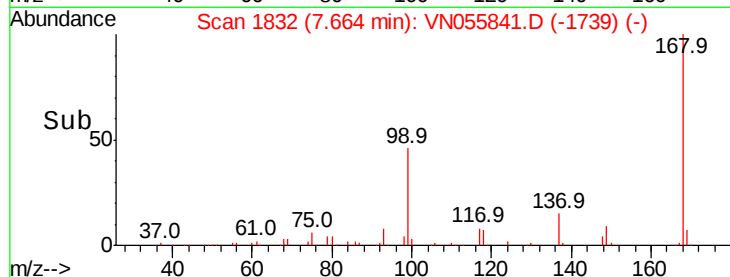
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 5.552 ug/l

RT: 4.74 min Scan# 922

Delta R.T. -0.07 min

Lab File: VN055841.D

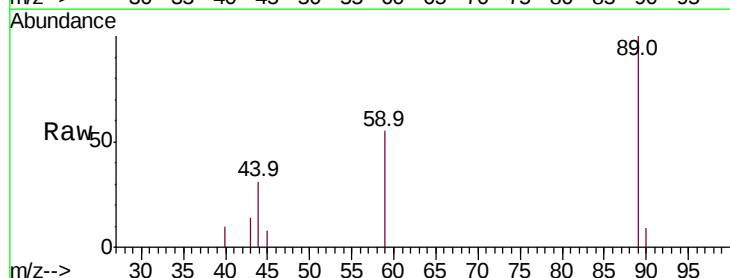
Acq: 28 May 2019 10:20

Tgt Ion: 59 Resp: 4721

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.74

1500

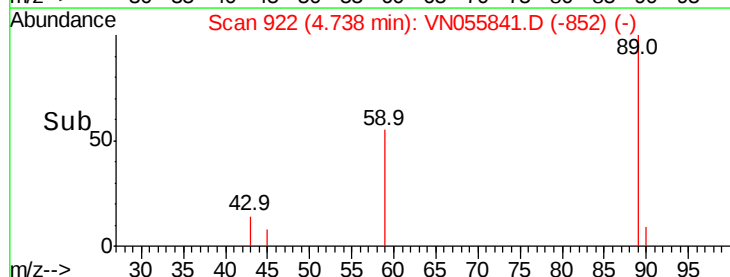
1000

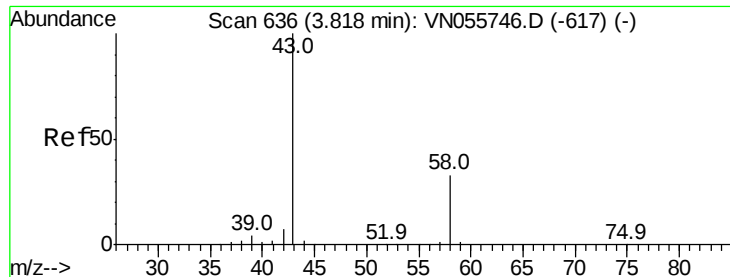
500

0

Time-->

4.65 4.70 4.75 4.80





#16

Acetone

Concen: 0.496 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

Instrument :

MSVOA_N

ClientSampled :

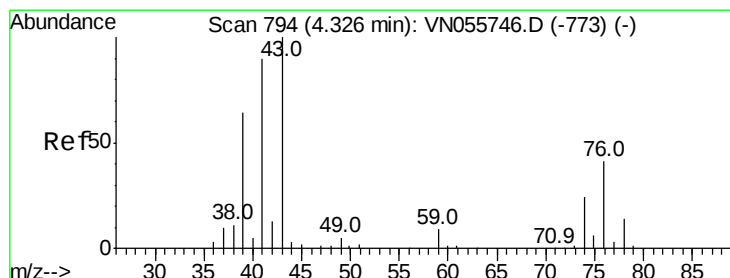
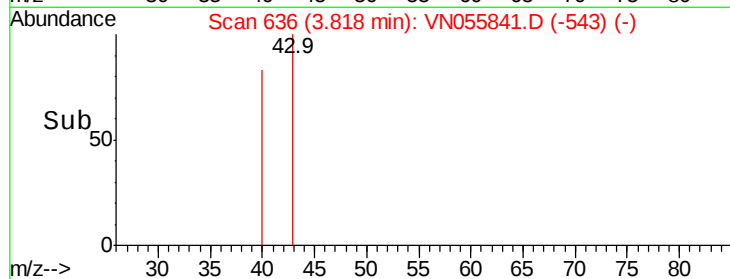
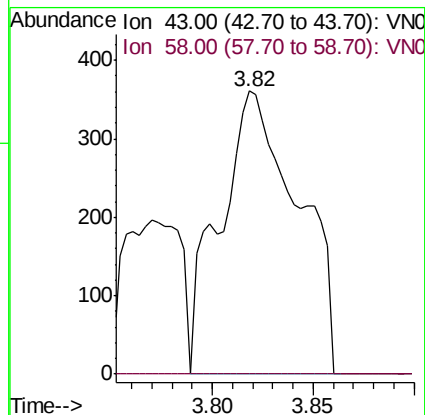
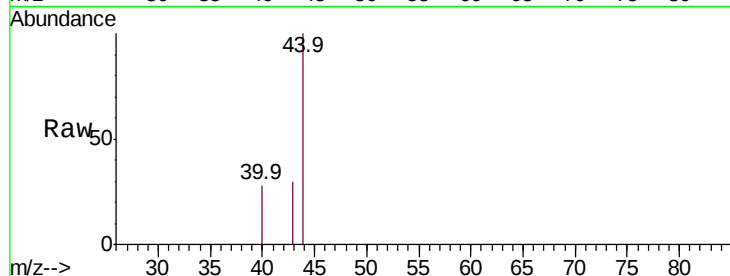
TB-20190522

Tot Ion: 43 Resp: 970

Ion Ratio Lower Upper

43 100

58 0.0 26.6 39.8#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.01 min

Lab File: VN055841.D

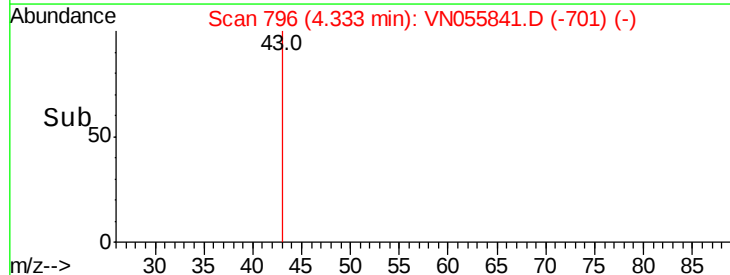
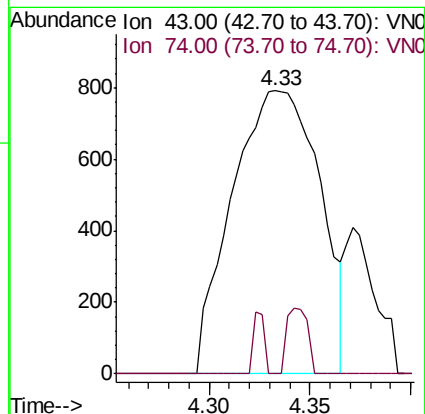
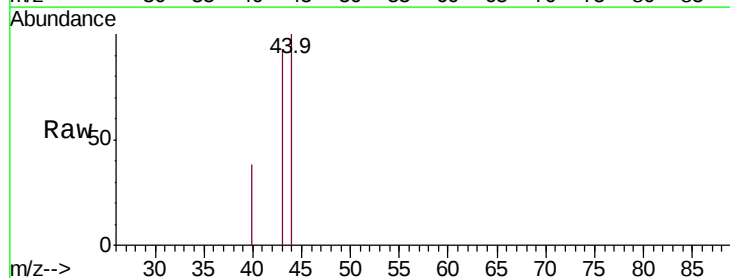
Acq: 28 May 2019 10:20

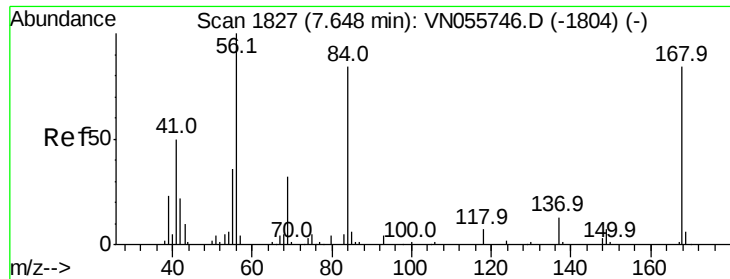
Tgt Ion: 43 Resp: 2384

Ion Ratio Lower Upper

43 100

74 5.5 19.3 28.9#

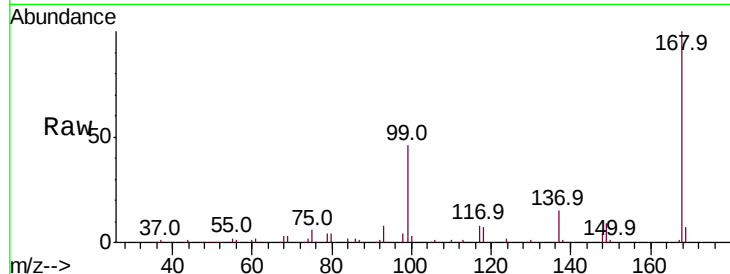




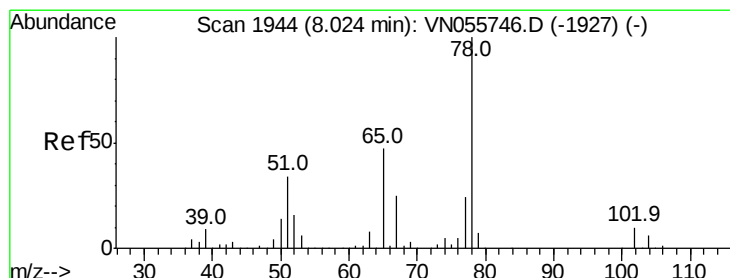
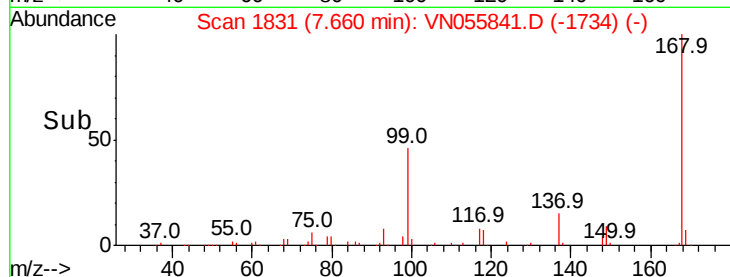
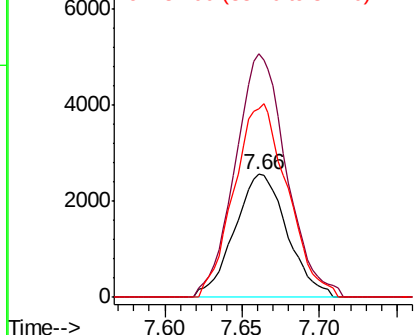
#31
Cyclohexane
Concen: 0.910 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN055841.D
Acq: 28 May 2019 10:20

Instrument :
MSVOA_N
ClientSampleId :
TB-20190522

Tot Ion: 56 Resp: 6076
Ion Ratio Lower Upper
56 100
69 198.4 25.6 38.4#
84 153.1 67.4 101.0#

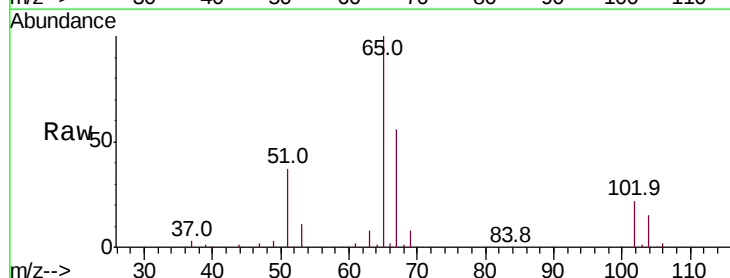


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

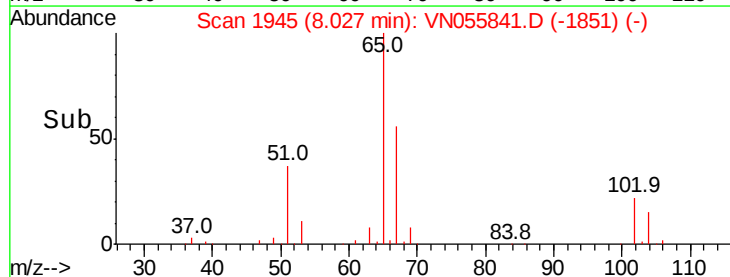
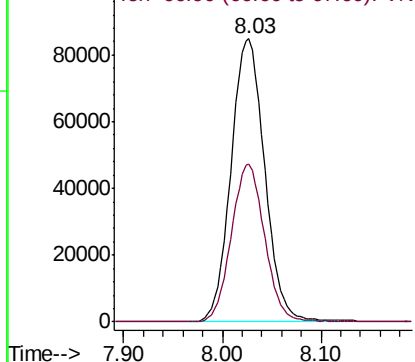


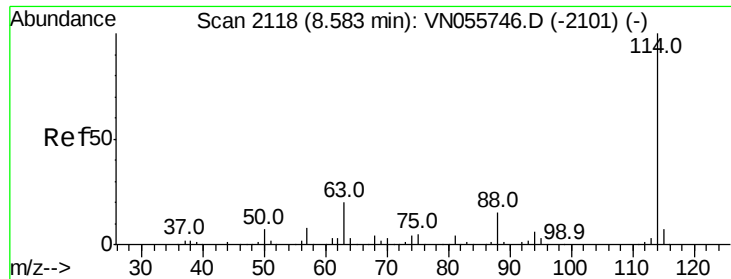
#33
1,2-Dichloroethane-d4
Concen: 45.271 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055841.D
Acq: 28 May 2019 10:20

Tgt Ion: 65 Resp: 201474
Ion Ratio Lower Upper
65 100
67 55.2 0.0 109.2



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

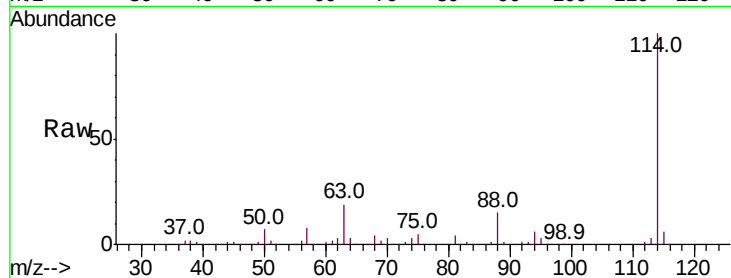




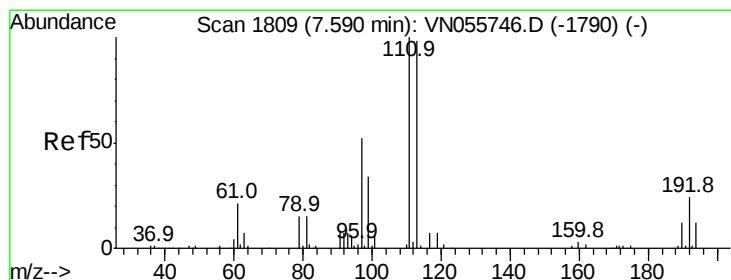
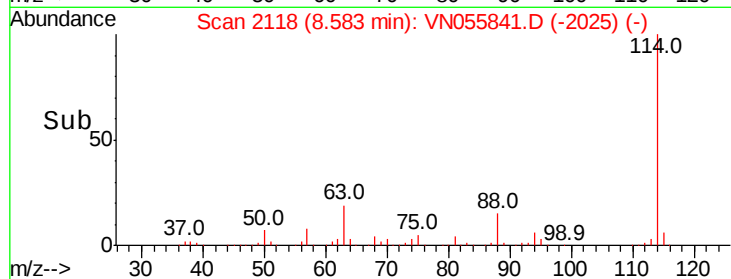
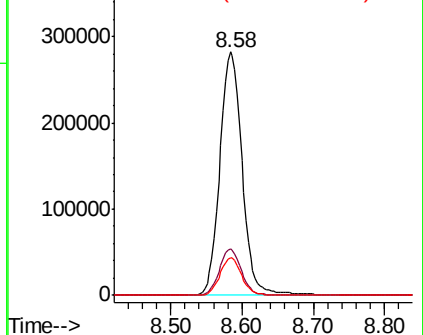
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055841.D
 Acq: 28 May 2019 10:20

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20190522

Tot Ion:114 Resp: 614255
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 39.2
 88 15.4 0.0 31.0

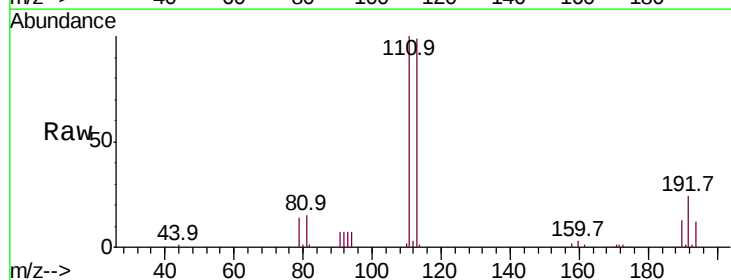


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

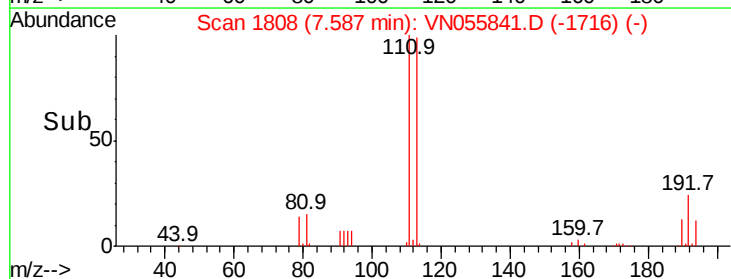
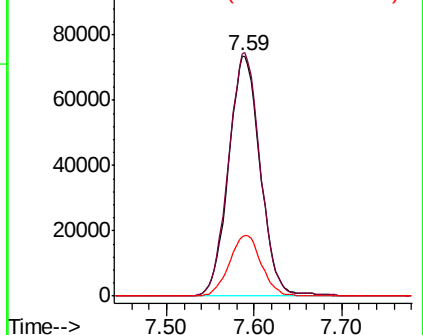


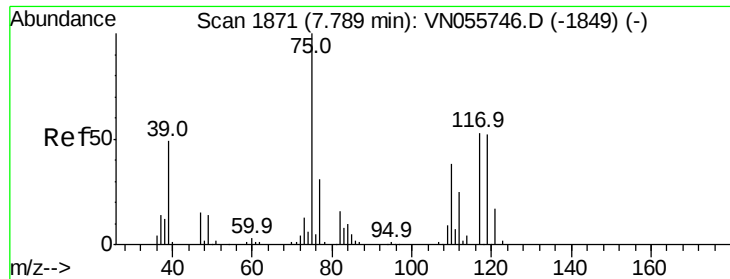
#35
 Dibromofluoromethane
 Concen: 47.694 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.00 min
 Lab File: VN055841.D
 Acq: 28 May 2019 10:20

Tgt Ion:113 Resp: 185220
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.9 122.9
 192 25.4 19.5 29.3



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





#36

1,1-Dichloropropene

Concen: 4.599 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

Instrument :

MSVOA_N

ClientSampled :

TB-20190522

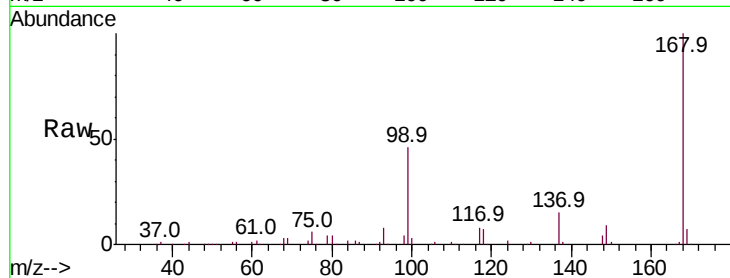
Tot Ion: 75 Resp: 24619

Ion Ratio Lower Upper

75 100

110 9.0 19.0 57.0#

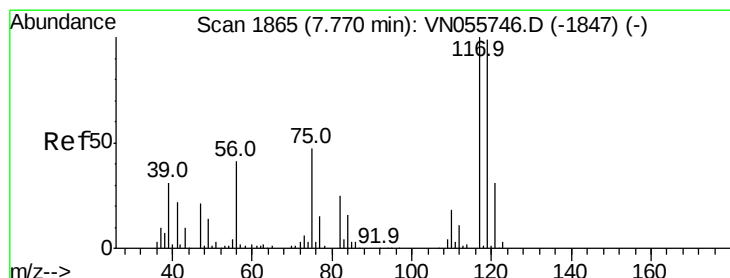
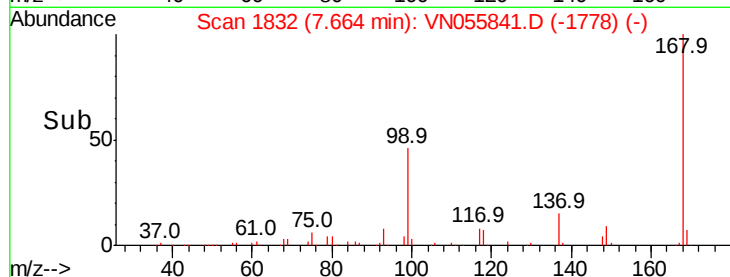
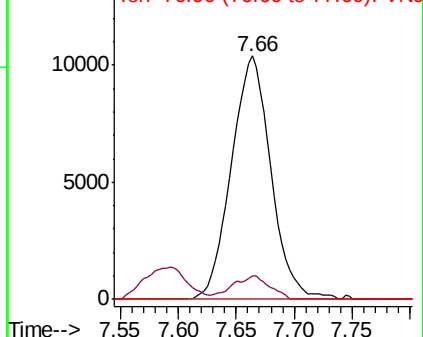
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN055841.D (-1778) (-)

Ion 109.90 (109.60 to 110.60): VN055841.D (-1778) (-)

Ion 76.90 (76.60 to 77.60): VN055841.D (-1778) (-)



#38

Carbon Tetrachloride

Concen: 6.234 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

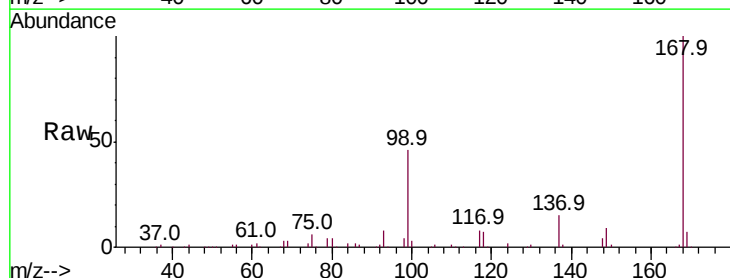
Tgt Ion: 117 Resp: 34760

Ion Ratio Lower Upper

117 100

119 5.2 79.0 118.6#

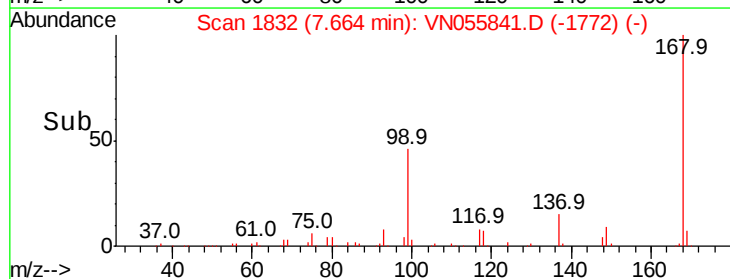
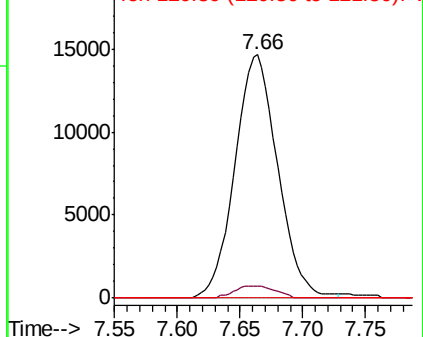
121 0.0 24.7 37.1#

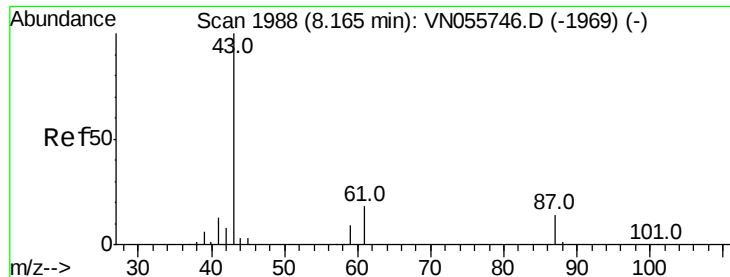


Abundance Ion 116.80 (116.50 to 117.50): VN055841.D (-1772) (-)

Ion 118.80 (118.50 to 119.50): VN055841.D (-1772) (-)

Ion 120.80 (120.50 to 121.50): VN055841.D (-1772) (-)





#43

Isopropyl Acetate

Concen: 1.468 ug/l

RT: 8.37 min Scan# 2051

Delta R.T. 0.20 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

Instrument :

MSVOA_N

ClientSampleId :

TB-20190522

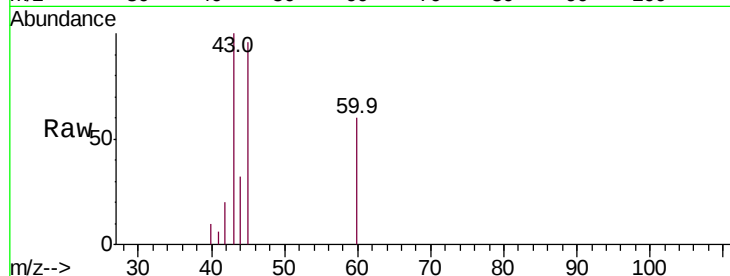
Tot Ion: 43 Resp: 12765

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

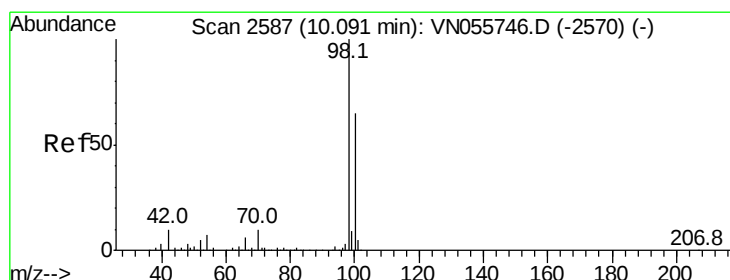
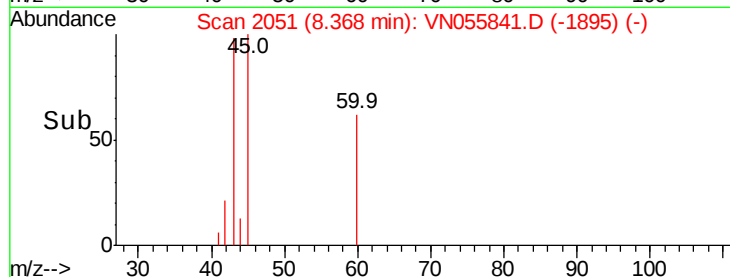
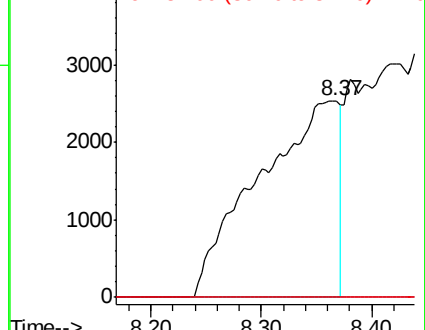
87 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#50

Toluene-d8

Concen: 49.505 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055841.D

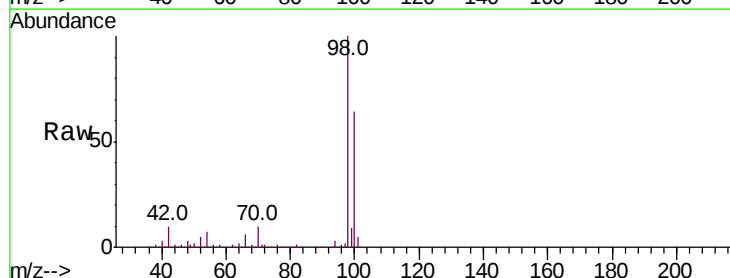
Acq: 28 May 2019 10:20

Tgt Ion: 98 Resp: 737466

Ion Ratio Lower Upper

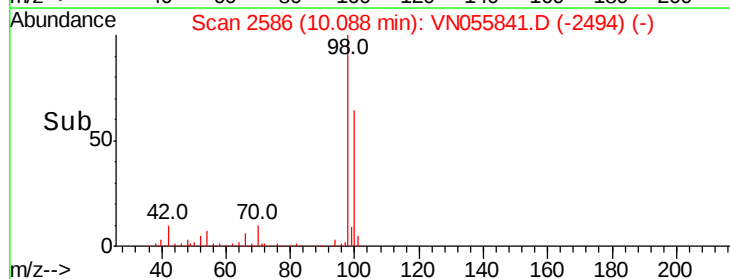
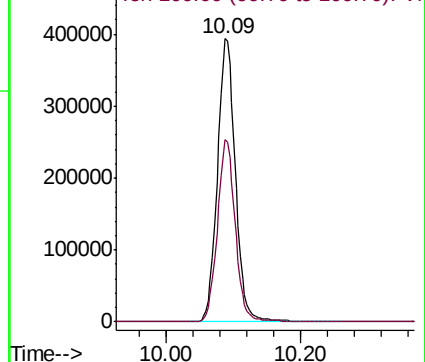
98 100

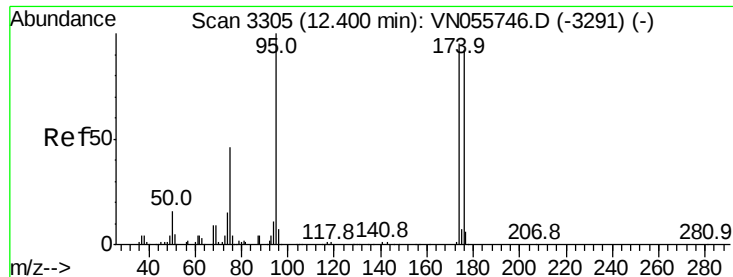
100 63.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VNC

Ion 100.00 (99.70 to 100.70): VNC





#62

4-Bromofluorobenzene

Concen: 45.969 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

Instrument :

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TB-20190522

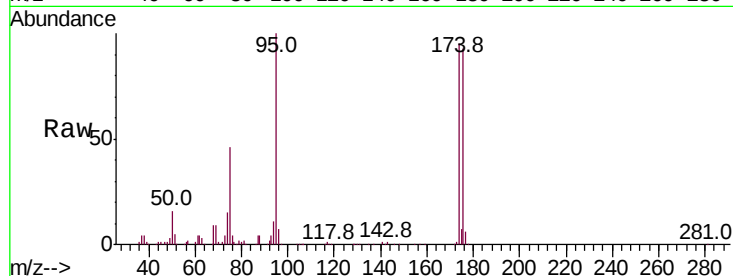
Tot Ion: 95 Resp: 234806

Ion Ratio Lower Upper

95 100

174 96.3 0.0 191.0

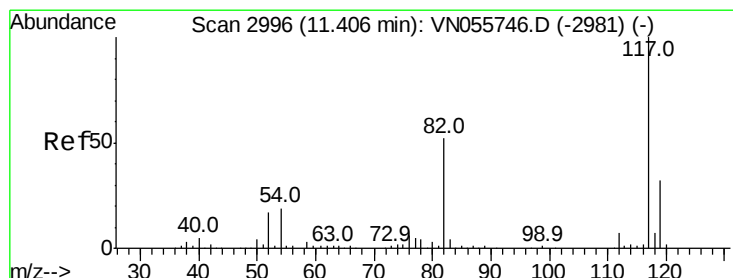
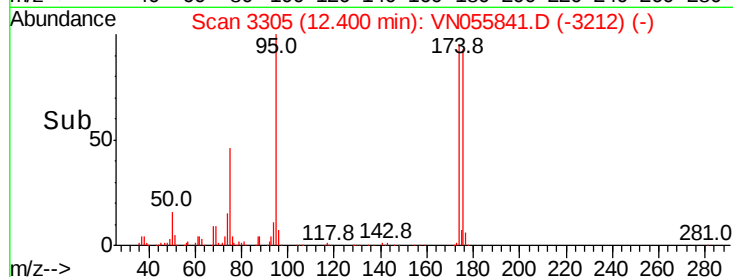
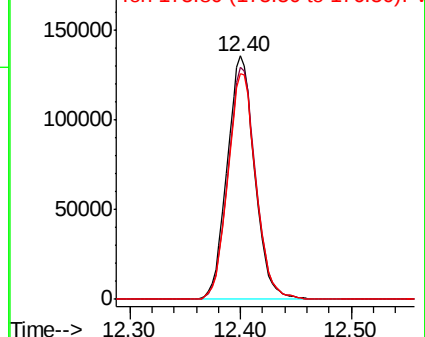
176 94.1 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055841.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055841.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055841.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

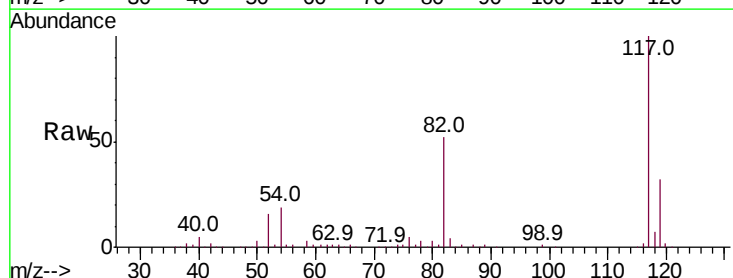
Tgt Ion: 117 Resp: 557314

Ion Ratio Lower Upper

117 100

82 52.4 41.8 62.8

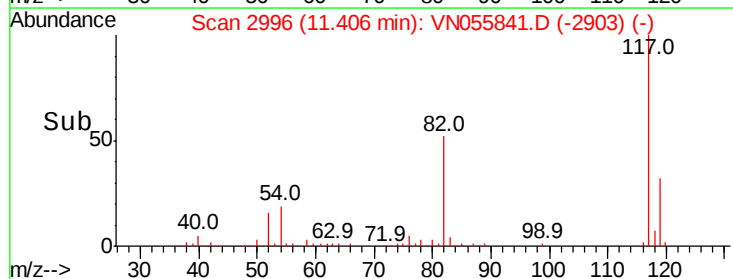
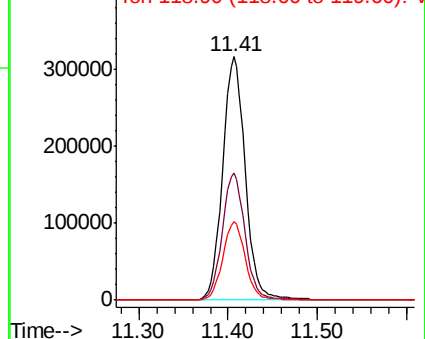
119 32.1 25.4 38.0

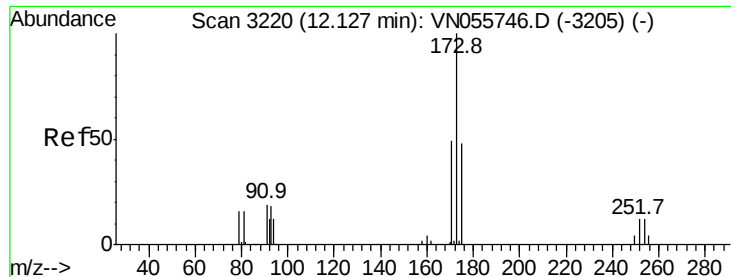


Abundance Ion 116.90 (116.60 to 117.60): VN055841.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055841.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055841.D (-2981) (-)

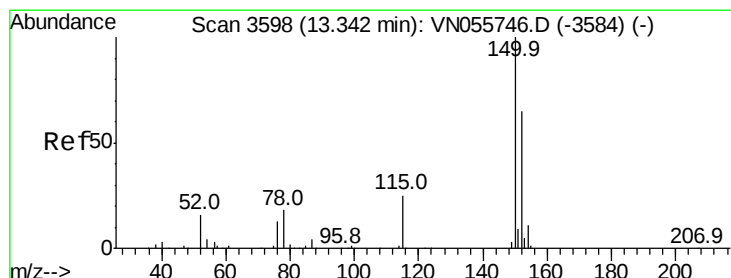
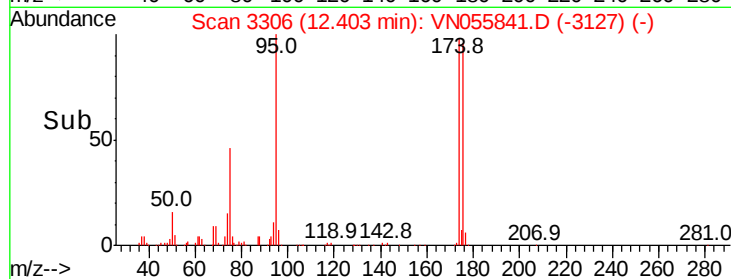
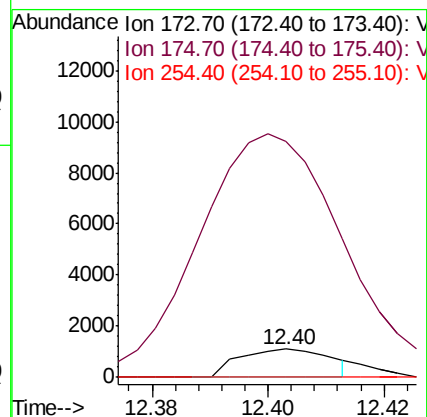
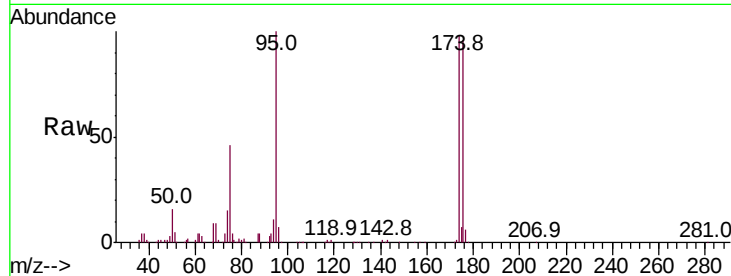




#71
Bromoform
Concen: 0.320 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN055841.D
Acq: 28 May 2019 10:20

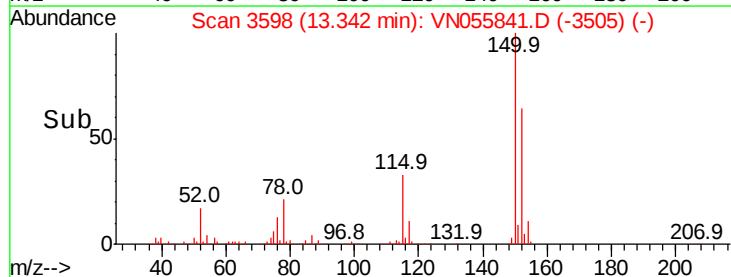
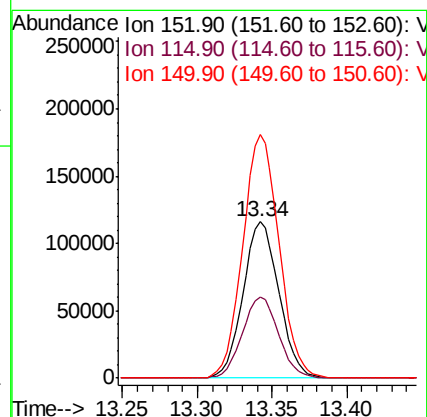
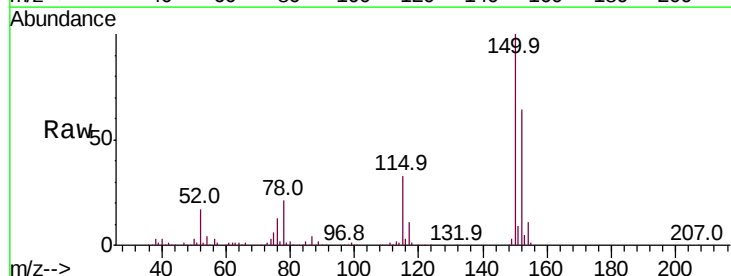
Instrument :
MSVOA_N
ClientSampleId :
TB-20190522

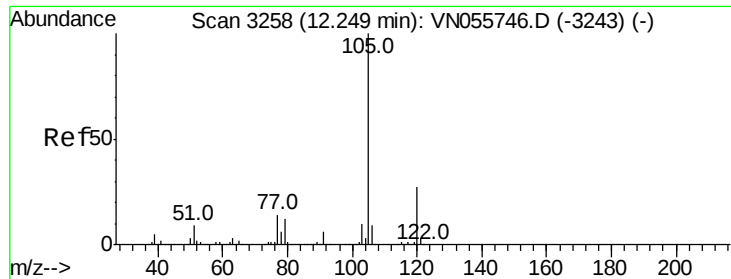
Tot Ion:173 Resp: 1215
Ion Ratio Lower Upper
173 100
175 1203.0 24.3 72.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN055841.D
Acq: 28 May 2019 10:20

Tgt Ion:152 Resp: 193570
Ion Ratio Lower Upper
152 100
115 52.5 27.0 81.0
150 157.7 0.0 343.2





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

Instrument :

MSVOA_N

ClientSampled :

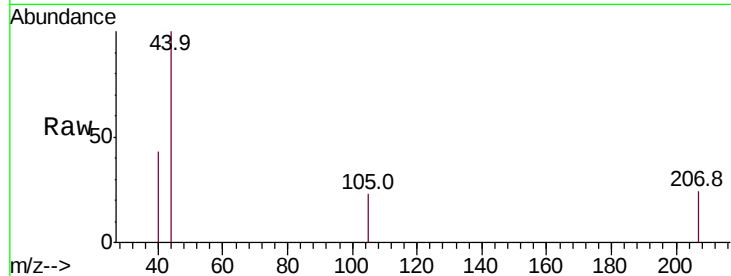
TB-20190522

Tot Ion:105 Resp: 29

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

12.25

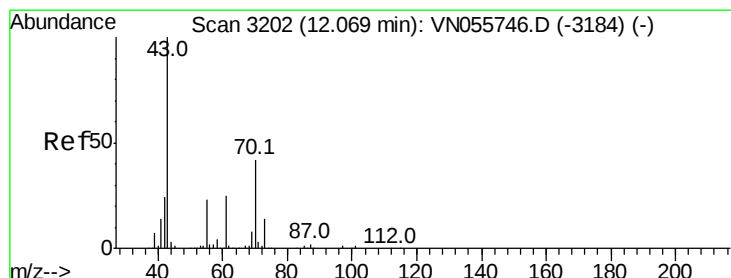
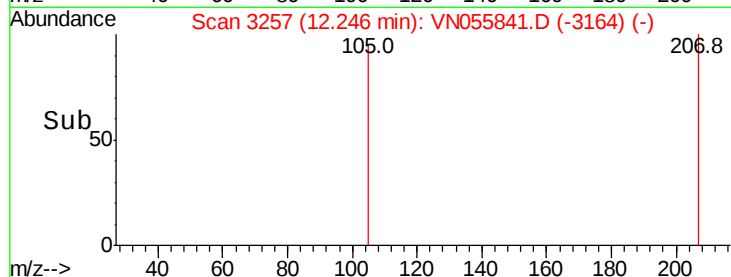
150

100

50

0

Time-->



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

Tgt Ion: 43 Resp: 261

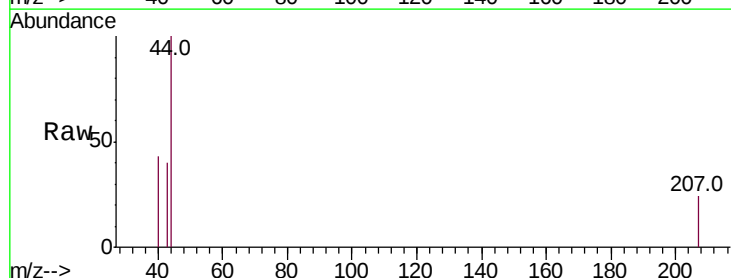
Ion Ratio Lower Upper

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): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

400

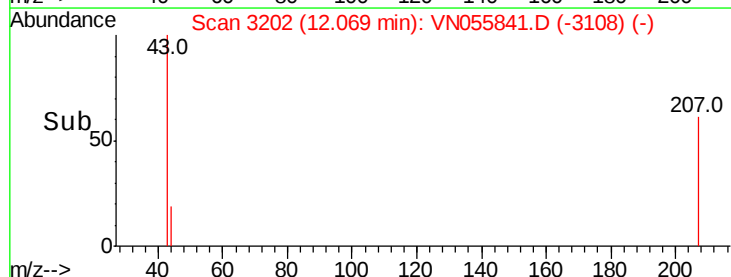
300

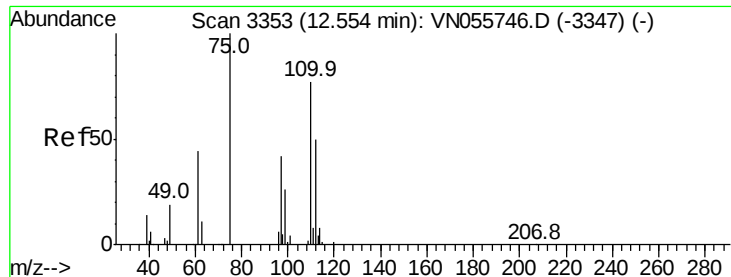
200

100

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 31.148 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

Instrument :

MSVOA_N

ClientSampleId :

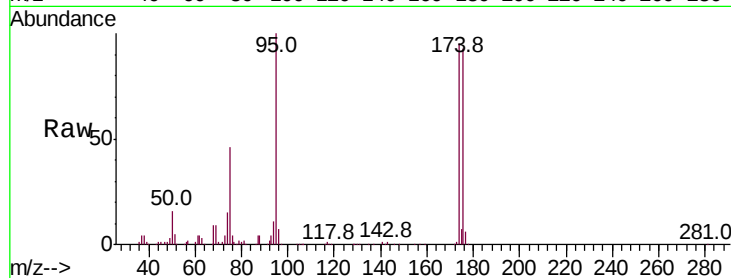
TB-20190522

Tot Ion: 75 Resp: 107775

Ion Ratio Lower Upper

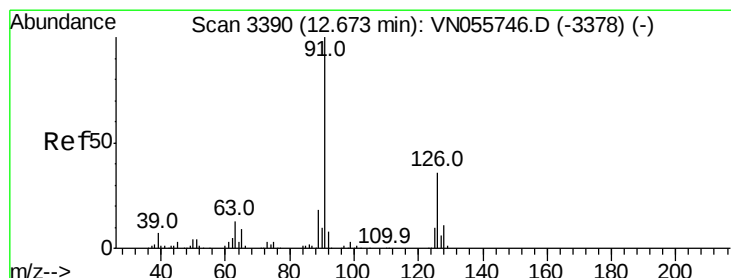
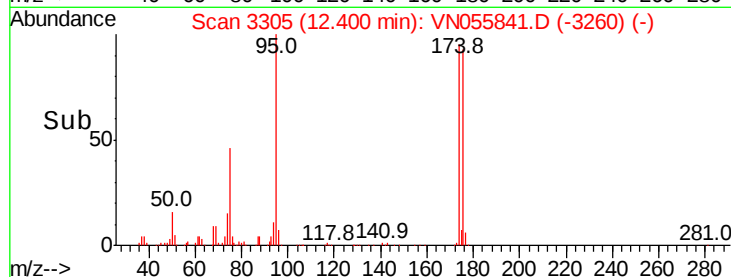
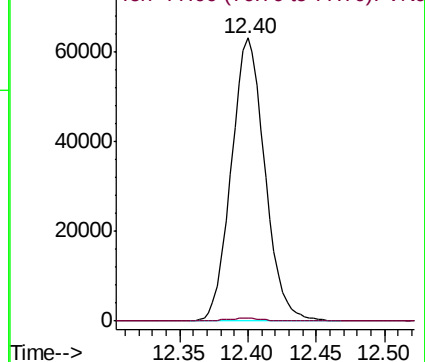
75 100

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# 3365

Delta R.T. -0.08 min

Lab File: VN055841.D

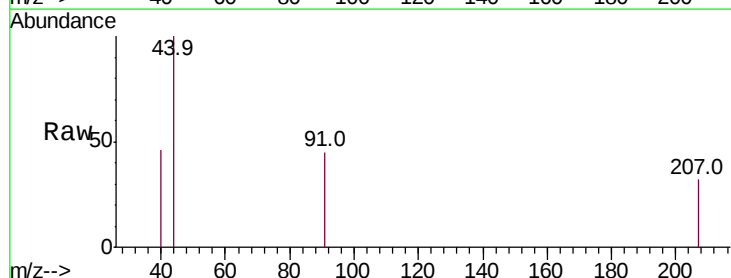
Acq: 28 May 2019 10:20

Tgt Ion: 91 Resp: 283

Ion Ratio Lower Upper

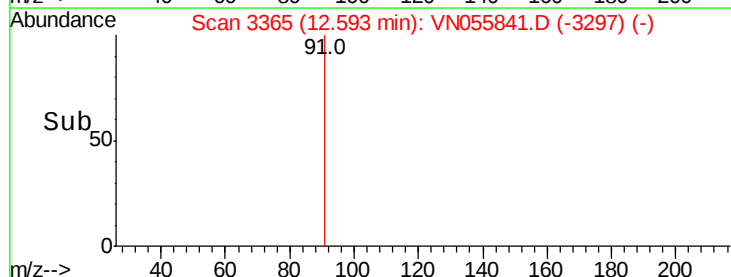
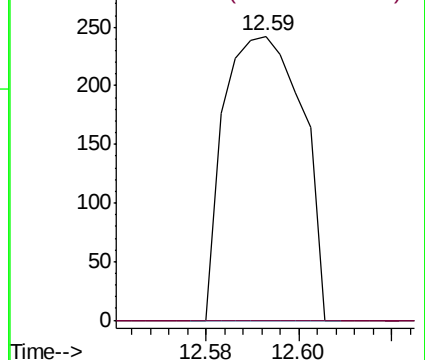
91 100

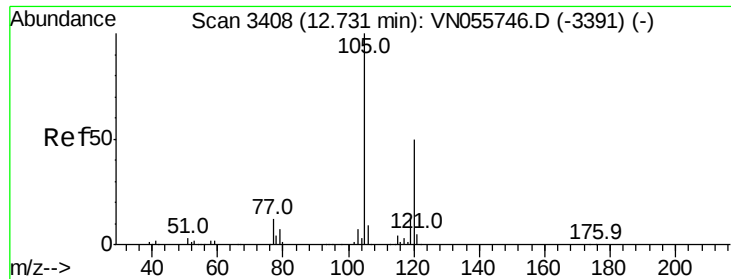
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

Instrument :

MSVOA_N

ClientSampleId :

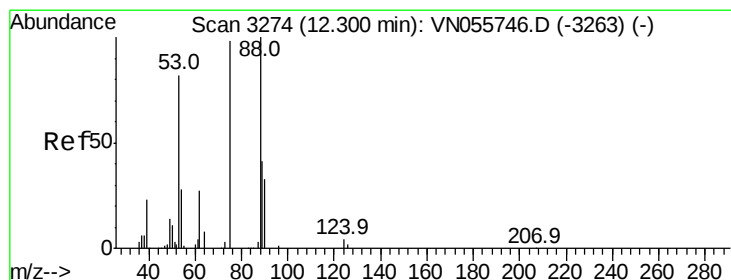
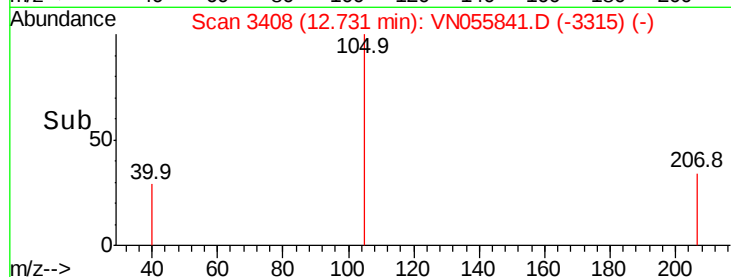
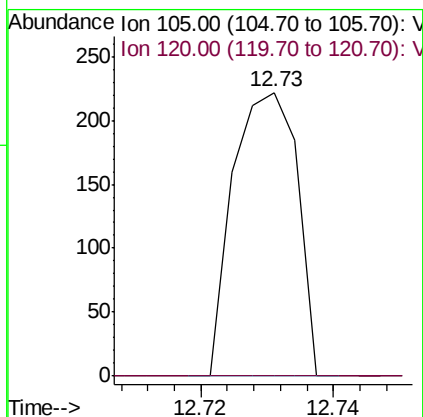
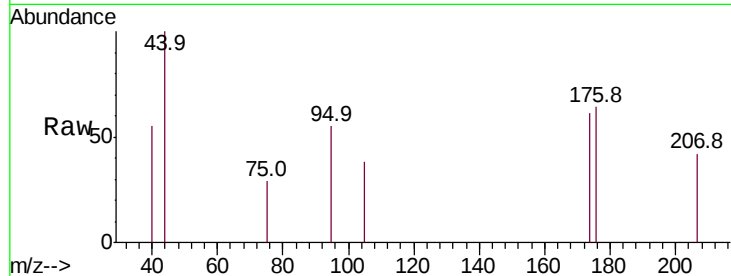
TB-20190522

Tot Ion:105 Resp: 150

Ion Ratio Lower Upper

105 100

120 0.0 24.7 74.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.913 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

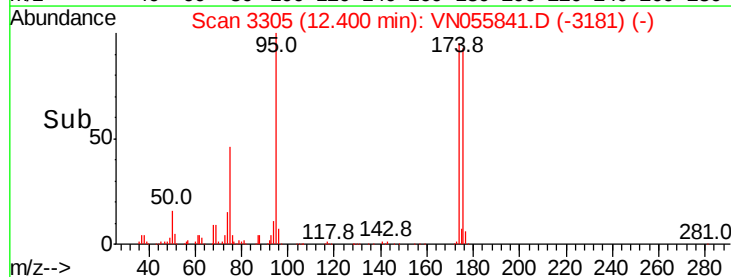
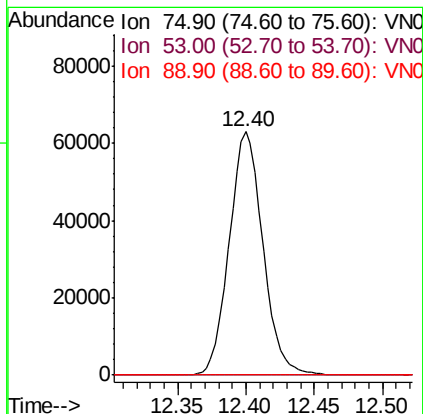
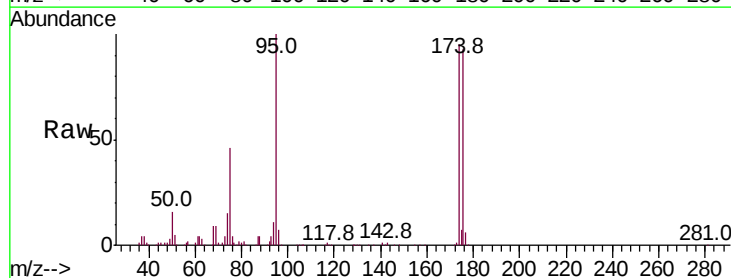
Tgt Ion: 75 Resp: 107775

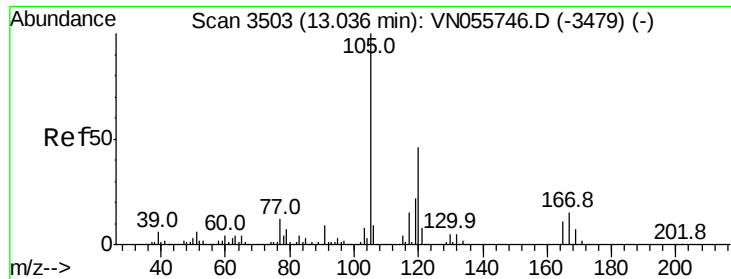
Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

89 0.0 36.9 55.3#

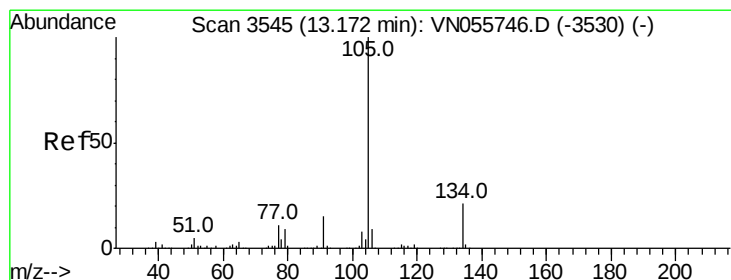
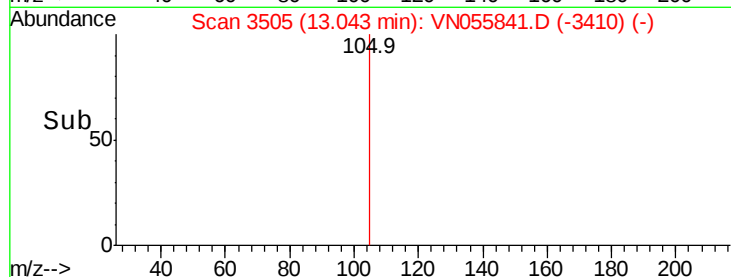
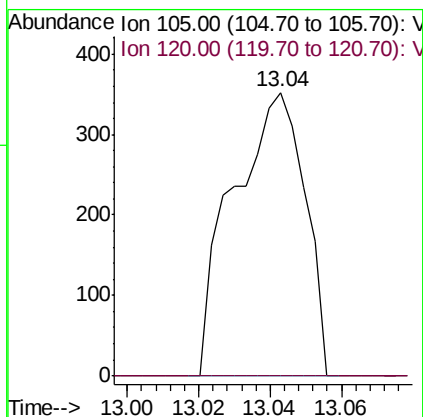
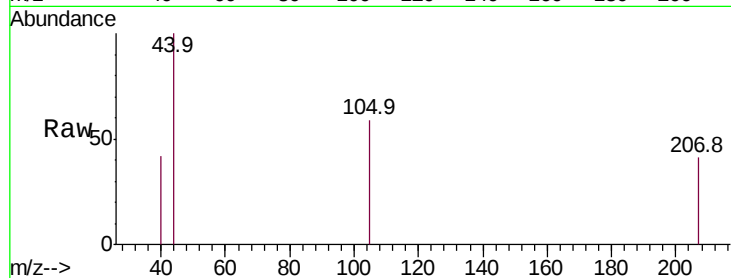




#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3505
 Delta R.T. 0.01 min
 Lab File: VN055841.D
 Acq: 28 May 2019 10:20

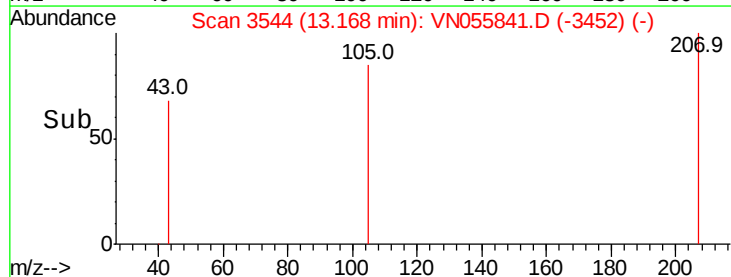
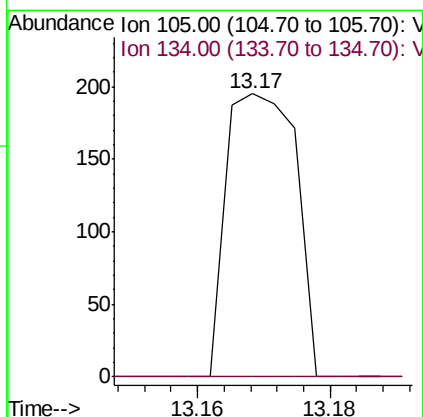
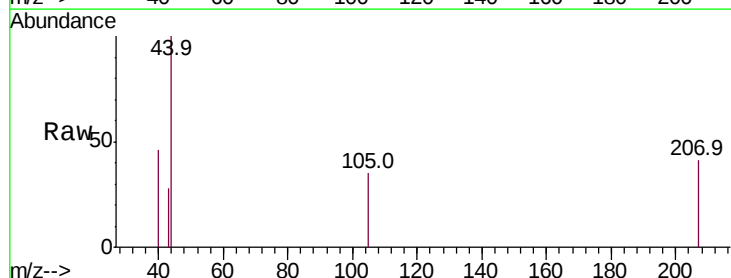
Instrument :
 MSVOA_N
 ClientSampleId :
 TB-20190522

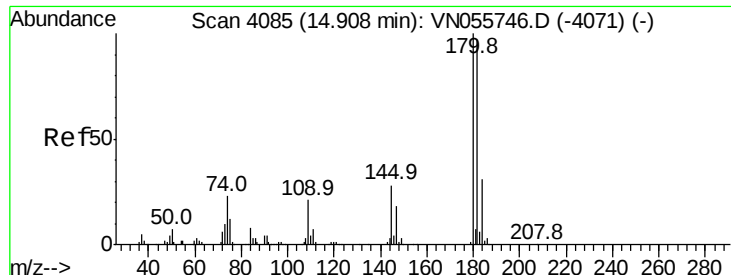
Tot Ion:105 Resp: 488
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.0 69.0#



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN055841.D
 Acq: 28 May 2019 10:20

Tgt Ion:105 Resp: 143
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#





#93

1,2,4-Trichlorobenzene

Concen: 3.697 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN055841.D

Acq: 28 May 2019 10:20

Instrument :

MSVOA_N

ClientSampleId :

TB-20190522

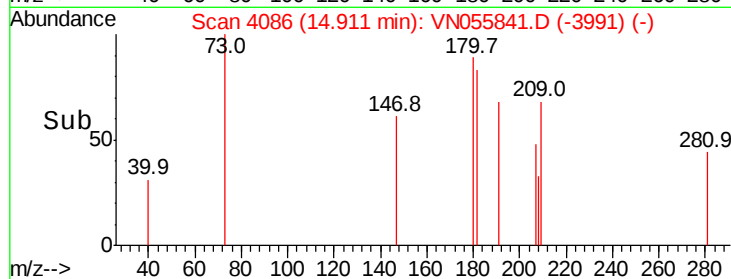
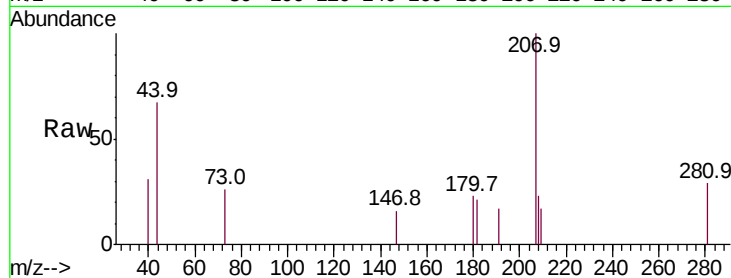
Tot Ion:180 Resp: 242

Ion Ratio Lower Upper

180 100

182 88.4 48.3 144.9

145 0.0 14.0 41.9#



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

