

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052819\
 Data File : VN055853.D
 Acq On : 28 May 2019 15:21
 Operator : JC/SP
 Sample : K3037-01DL 100X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW6-R1-1DL

Quant Time: May 28 17:39:27 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	430061	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	614900	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	557929	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	191583	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	201082	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	
35) Dibromofluoromethane	7.59	113	181029	46.57	ug/l	0.00
Spiked Amount			Recovery	=	93.14%	
50) Toluene-d8	10.09	98	726638	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
62) 4-Bromofluorobenzene	12.40	95	232096	45.39	ug/l	0.00
Spiked Amount			Recovery	=	90.78%	

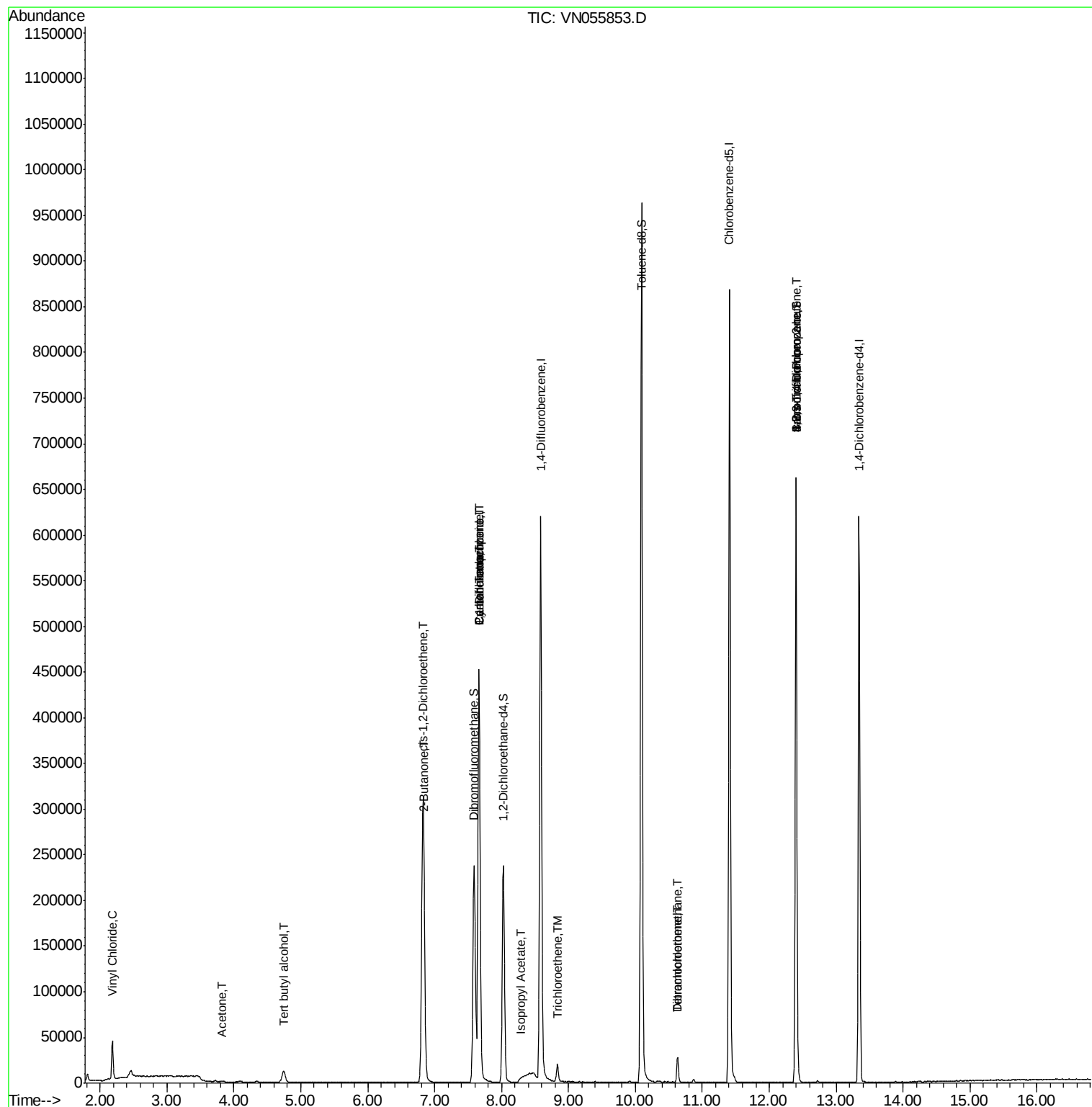
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.18	62	38069	8.801	ug/l	97
11) Tert butyl alcohol	4.74	59	11882	14.002	ug/l #	74
16) Acetone	3.82	43	1029	0.527	ug/l #	41
18) Methyl Acetate	4.33	43	1488	Below Cal	#	76
25) 2-Butanone	6.85	43	583	0.214	ug/l #	1
27) cis-1,2-Dichloroethene	6.83	96	221366	48.287	ug/l	89
31) Cyclohexane	7.66	56	6199	0.930	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	25041	4.673	ug/l #	48
38) Carbon Tetrachloride	7.66	117	35214	6.309	ug/l #	15
43) Isopropyl Acetate	8.27	43	2456	0.282	ug/l #	53
44) Trichloroethene	8.83	130	8234	1.829	ug/l	98
60) Dibromochloromethane	10.63	129	6274	1.324	ug/l #	11
64) Tetrachloroethene	10.63	164	7290	1.549	ug/l	93
71) Bromoform	12.40	173	1568	0.413	ug/l #	1
73) Isopropylbenzene	12.39	105	94	Below Cal	#	48
74) N-amyl acetate	12.08	43	135	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	107430	31.394	ug/l #	100
79) 2-Chlorotoluene	12.59	91	203	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	139	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	107430	75.448	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	331	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	191	Below Cal	#	55

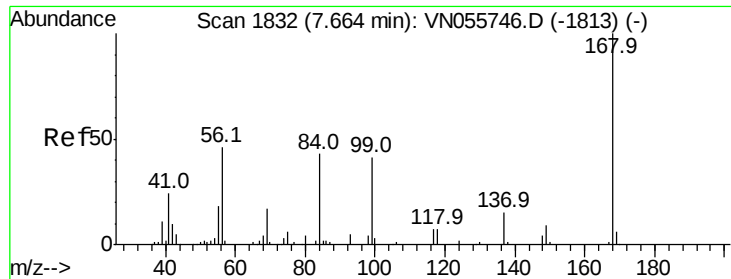
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 24 06:41:54 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

Instrument :

MSVOA_N

ClientSampleId :

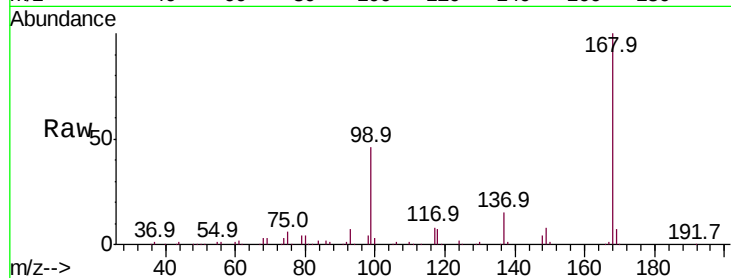
MW6-R1-1DL

Tot Ion:168 Resp: 430061

Ion Ratio Lower Upper

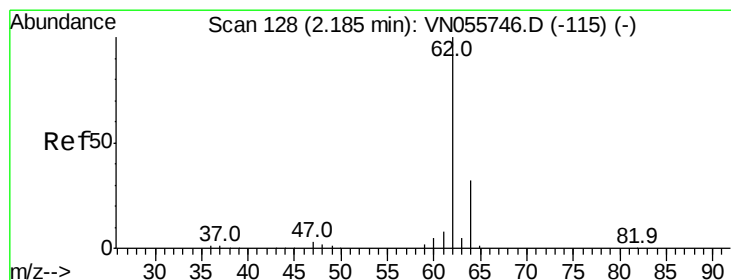
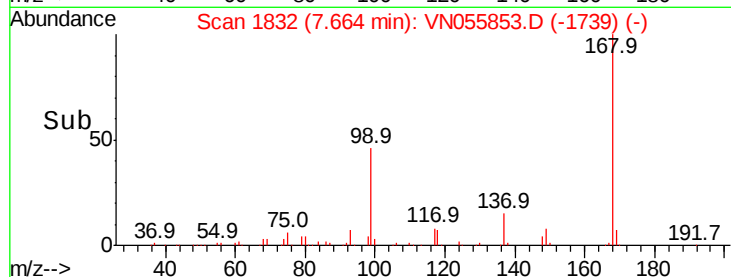
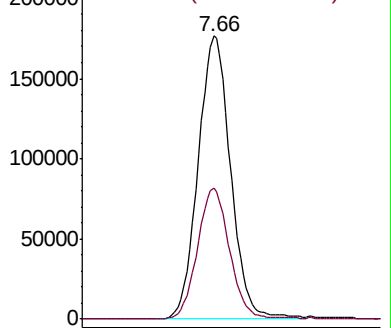
168 100

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): VNO



#4

Vinyl Chloride

Concen: 8.801 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN055853.D

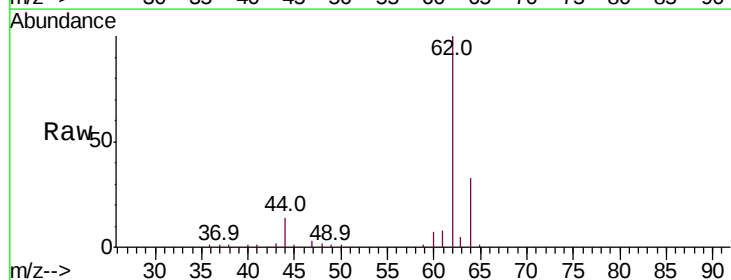
Acq: 28 May 2019 15:21

Tgt Ion: 62 Resp: 38069

Ion Ratio Lower Upper

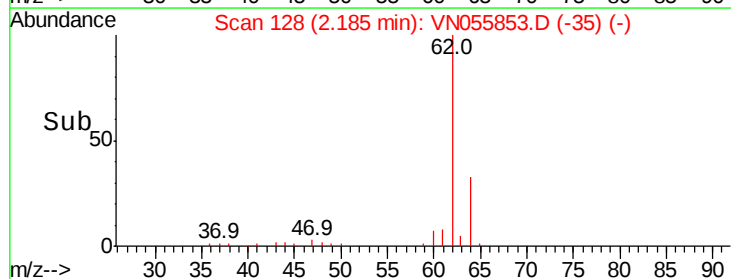
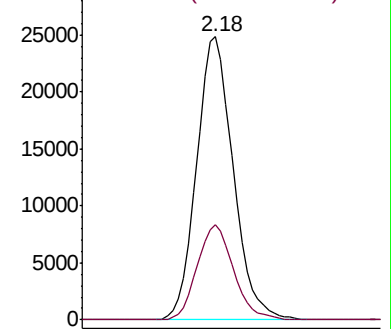
62 100

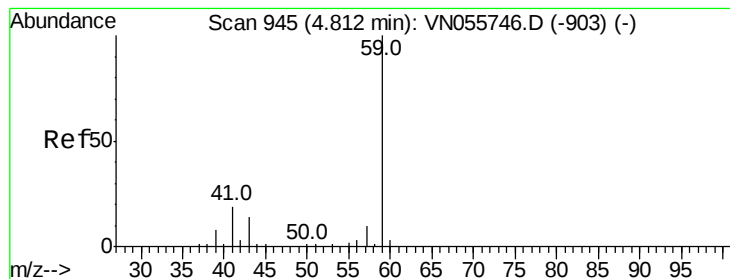
64 33.4 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



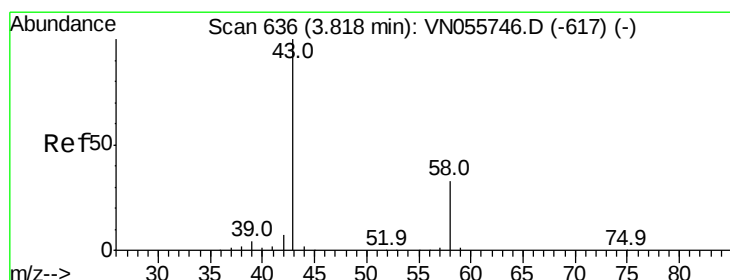
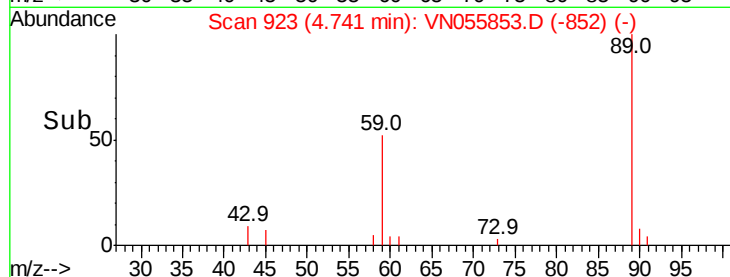
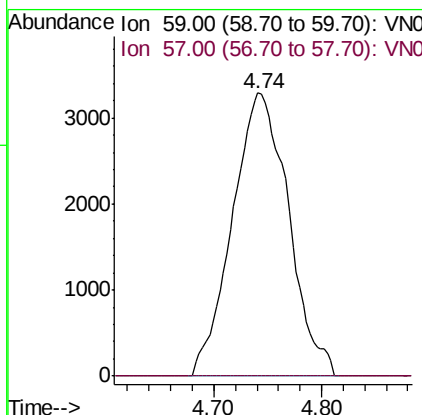
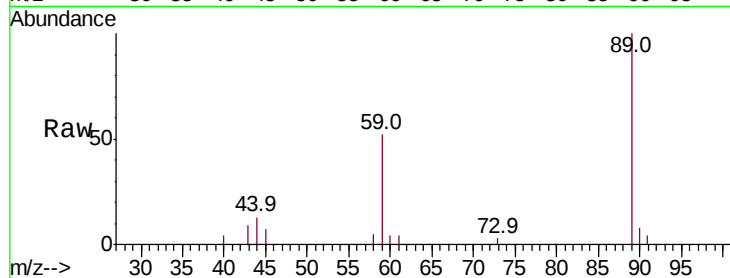


#11

Tert butyl alcohol
 Concen: 14.002 ug/l
 RT: 4.74 min Scan# 923
 Delta R.T. -0.07 min
 Lab File: VN055853.D
 Acq: 28 May 2019 15:21

Instrument :
 MSVOA_N
 ClientSampled :
 MW6-R1-1DL

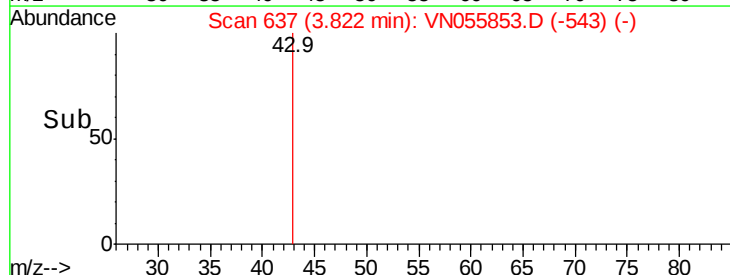
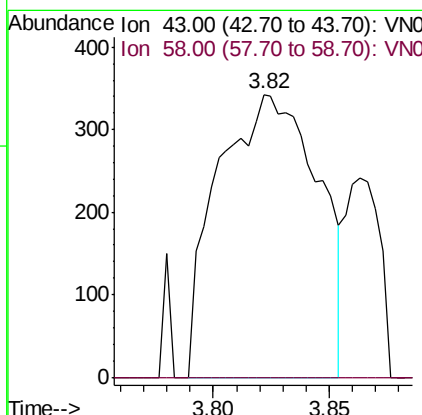
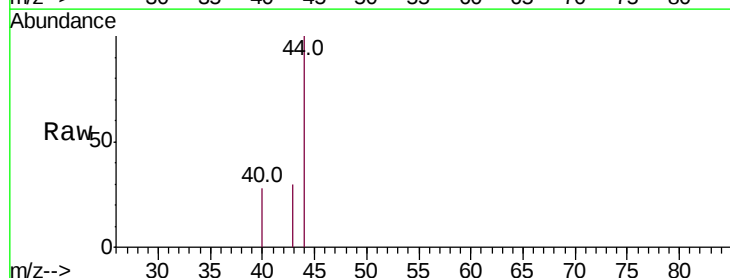
Tot Ion: 59 Resp: 11882
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

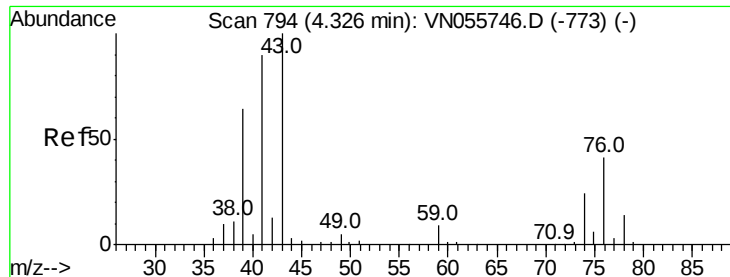


#16

Acetone
 Concen: 0.527 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN055853.D
 Acq: 28 May 2019 15:21

Tgt Ion: 43 Resp: 1029
 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: VN055853.D

Acq: 28 May 2019 15:21

Instrument :

MSVOA_N

ClientSampled :

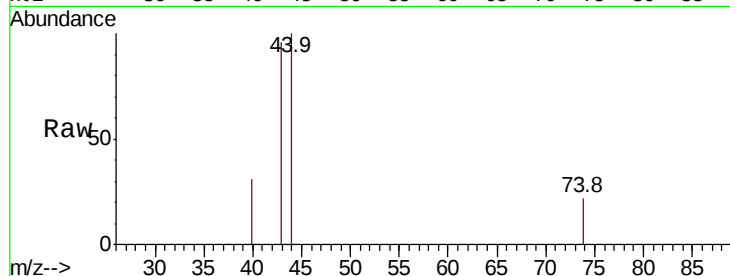
MW6-R1-1DL

Tot Ion: 43 Resp: 1488

Ion Ratio Lower Upper

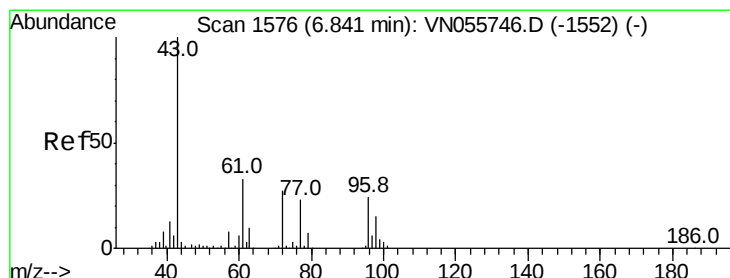
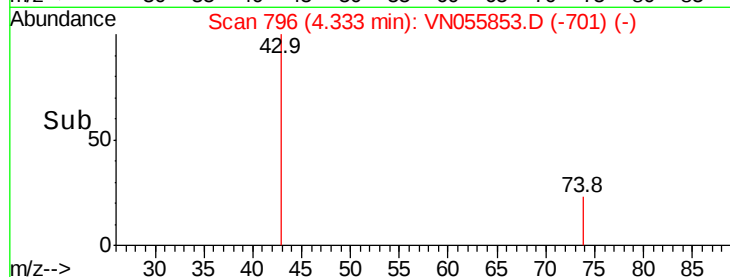
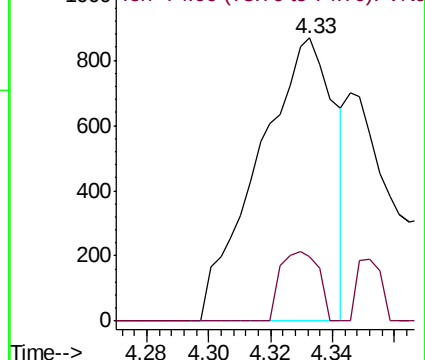
43 100

74 12.3 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: 0.214 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VN055853.D

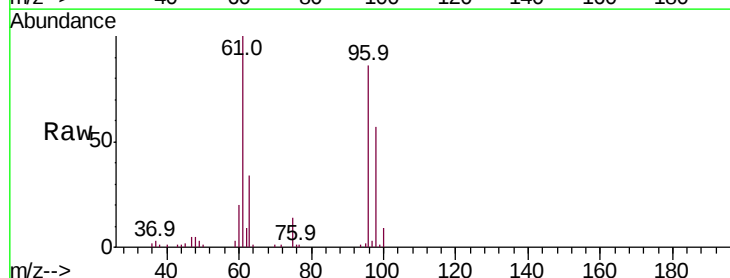
Acq: 28 May 2019 15:21

Tgt Ion: 43 Resp: 583

Ion Ratio Lower Upper

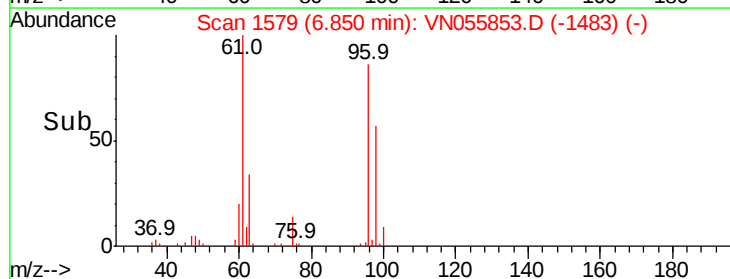
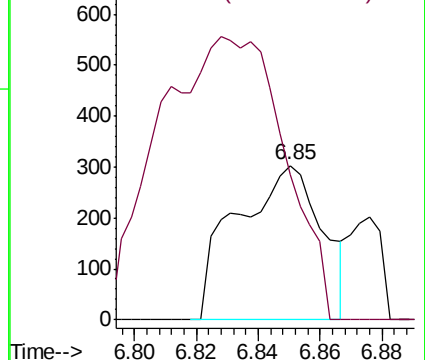
43 100

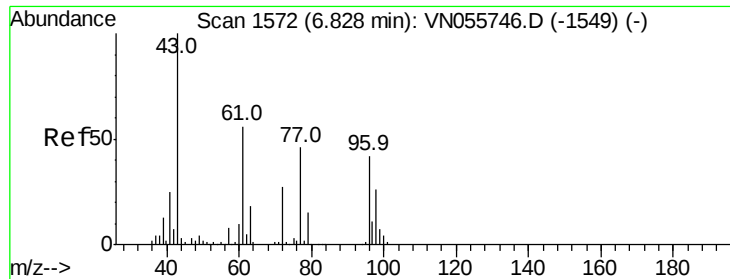
72 93.7 21.9 32.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#27

cis-1,2-Dichloroethene

Concen: 48.287 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

Instrument :

MSVOA_N

ClientSampleId :

MW6-R1-1DL

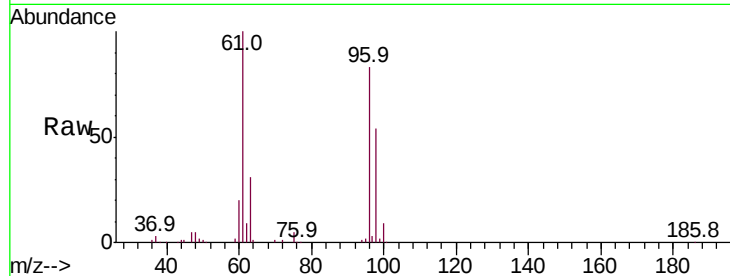
Tot Ion: 96 Resp: 221366

Ion Ratio Lower Upper

96 100

61 119.0 0.0 275.8

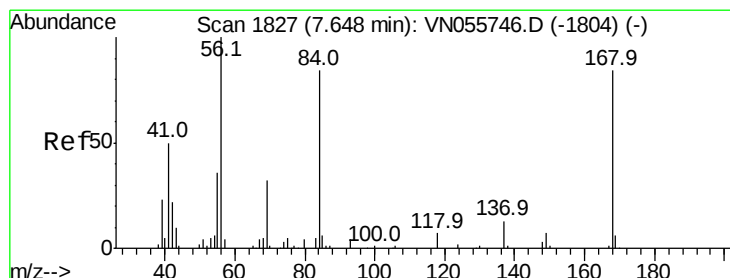
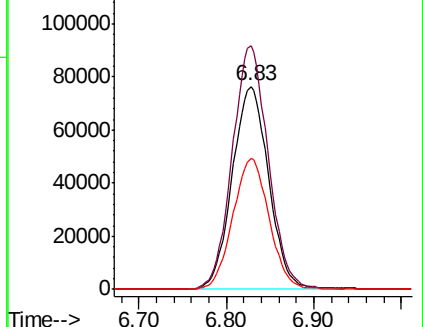
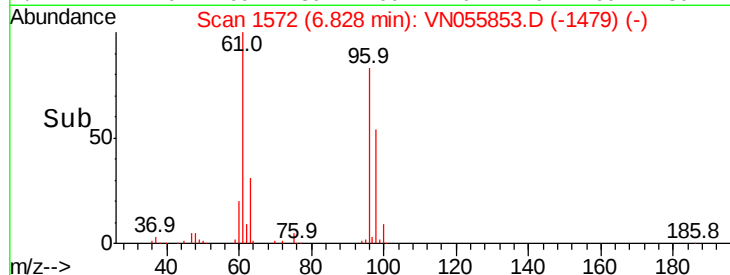
98 64.3 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN055853.D (-1479) (-)

Ion 60.90 (60.60 to 61.60): VN055853.D (-1479) (-)

Ion 97.90 (97.60 to 98.60): VN055853.D (-1479) (-)



#31

Cyclohexane

Concen: 0.930 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

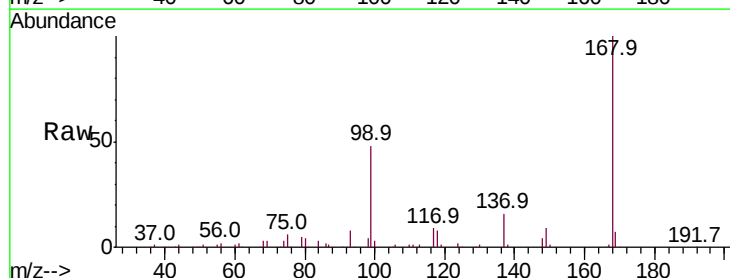
Tgt Ion: 56 Resp: 6199

Ion Ratio Lower Upper

56 100

69 171.0 25.6 38.4#

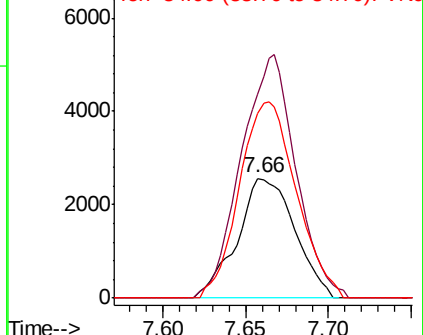
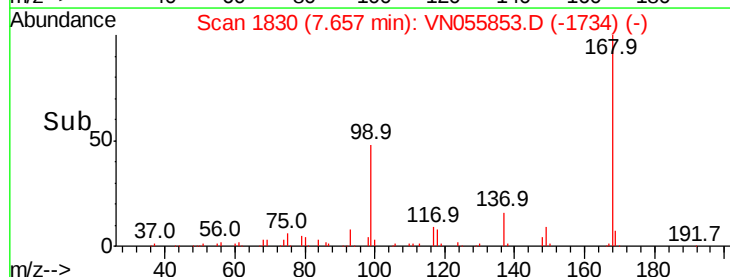
84 154.6 67.4 101.0#

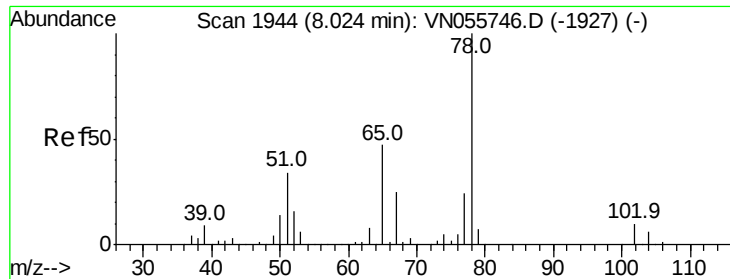


Abundance Ion 56.00 (55.70 to 56.70): VN055853.D (-1734) (-)

Ion 69.00 (68.70 to 69.70): VN055853.D (-1734) (-)

Ion 84.00 (83.70 to 84.70): VN055853.D (-1734) (-)

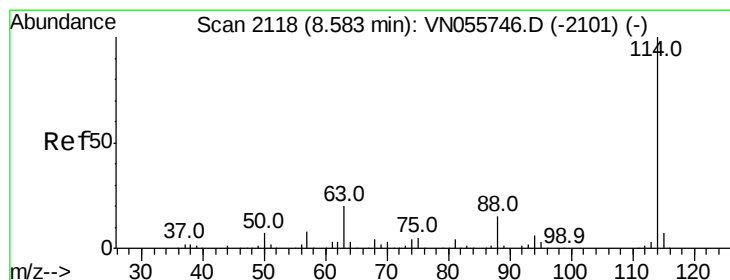
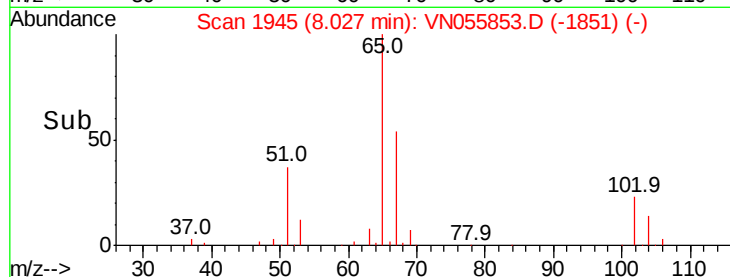
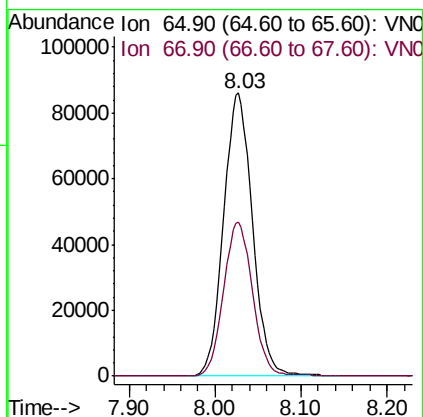
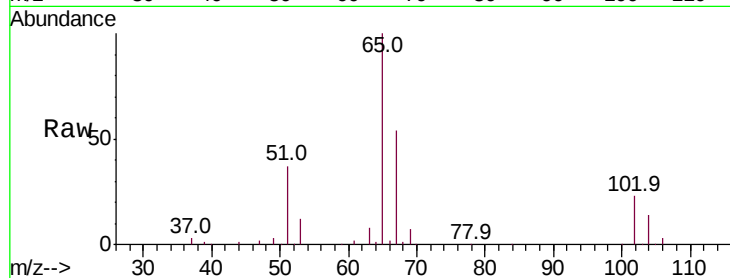




#33
 1,2-Dichloroethane-d4
 Concen: 45.275 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055853.D
 Acq: 28 May 2019 15:21

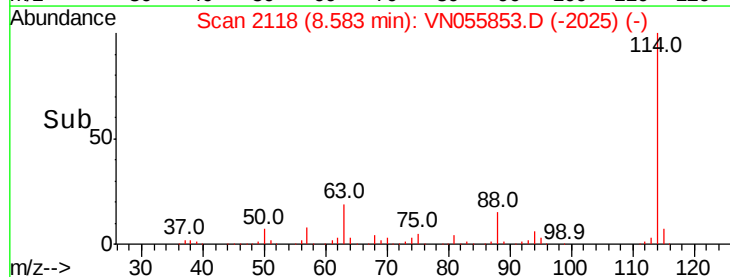
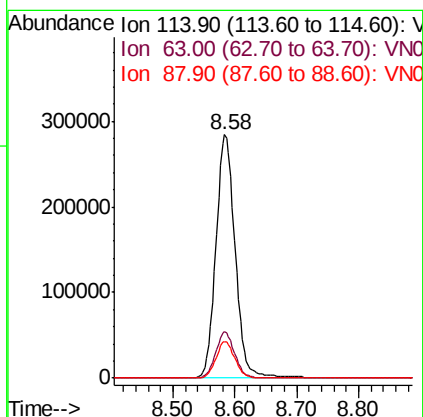
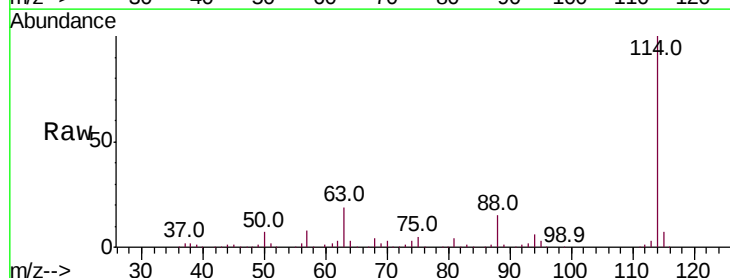
Instrument :
 MSVOA_N
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 MW6-R1-1DL

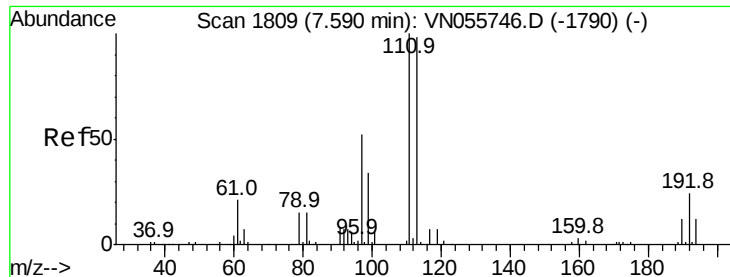
Tot Ion: 65 Resp: 201082
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055853.D
 Acq: 28 May 2019 15:21

Tgt Ion: 114 Resp: 614900
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.2
 88 15.1 0.0 31.0

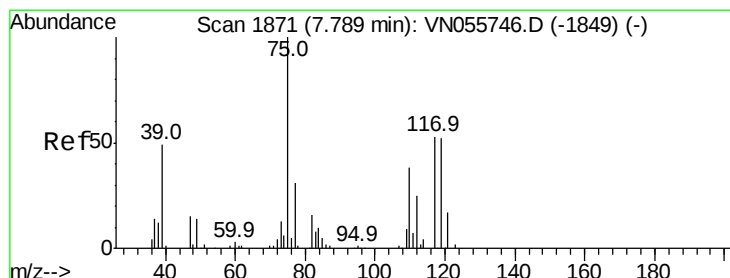
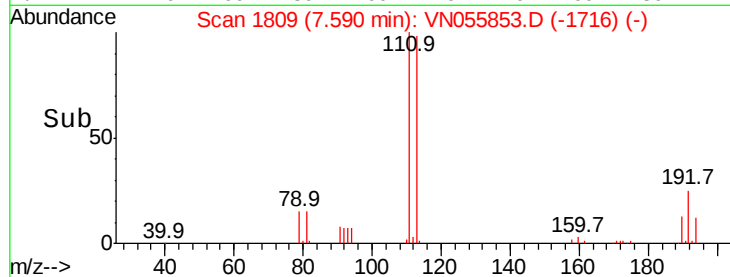
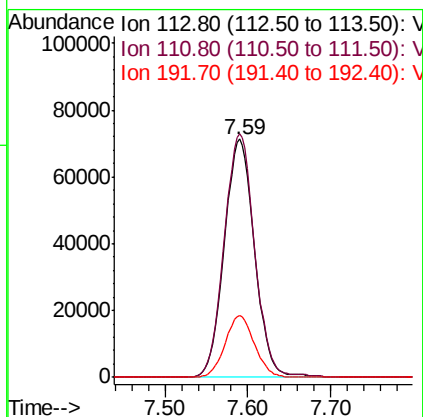
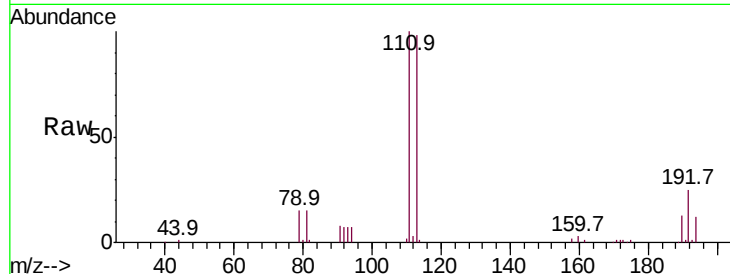




#35
 Dibromofluoromethane
 Concen: 46.566 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055853.D
 Acq: 28 May 2019 15:21

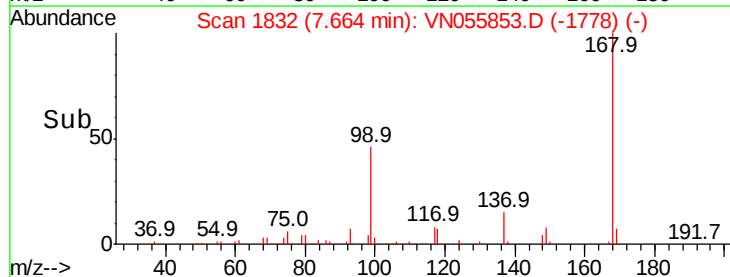
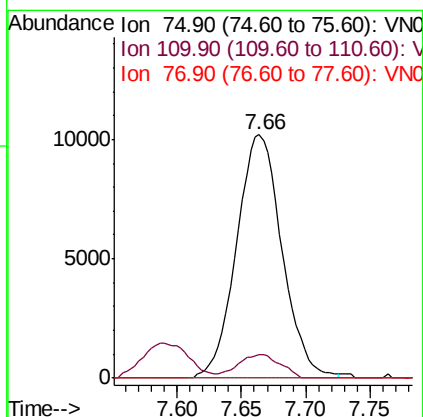
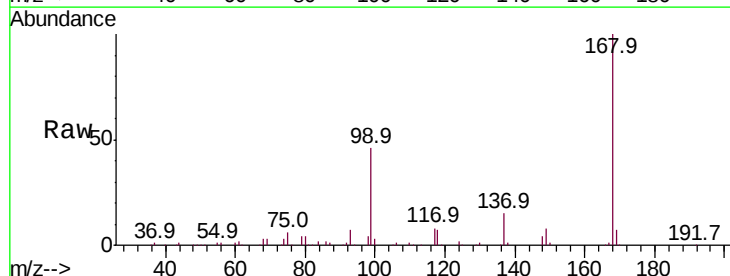
Instrument :
 MSVOA_N
 ClientSampleId :
 MW6-R1-1DL

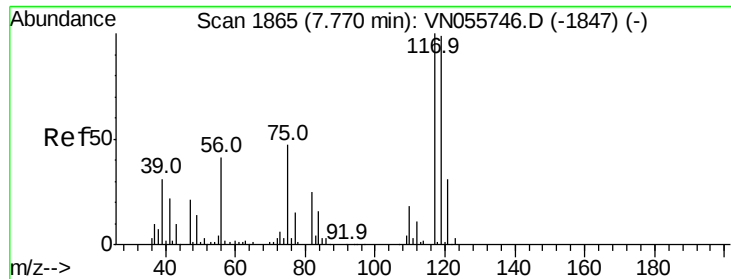
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.9	122.9
192	25.1	19.5	29.3



#36
 1,1-Dichloropropene
 Concen: 4.673 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055853.D
 Acq: 28 May 2019 15:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	19.0	57.0#
77	0.0	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.309 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

Instrument :

MSVOA_N

ClientSampled :

MW6-R1-1DL

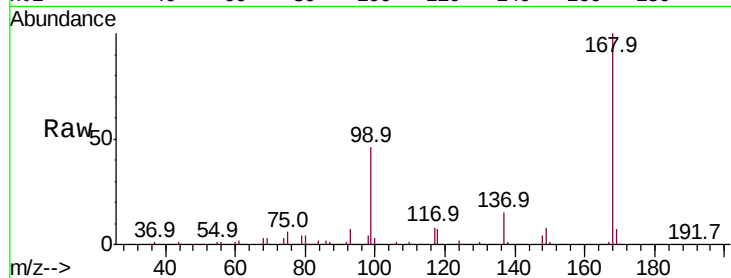
Tot Ion:117 Resp: 35214

Ion Ratio Lower Upper

117 100

119 5.5 79.0 118.6#

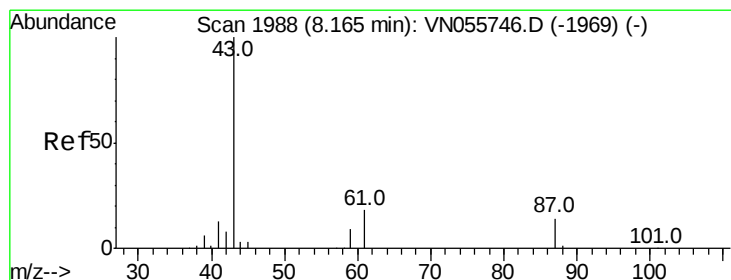
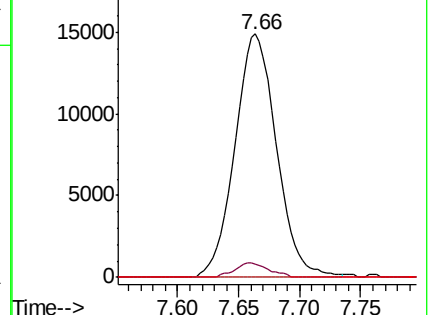
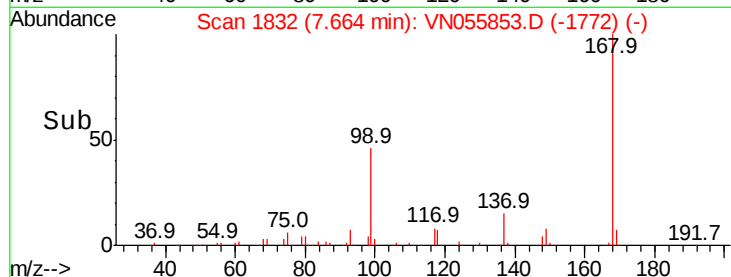
121 0.0 24.7 37.1#



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: 0.282 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

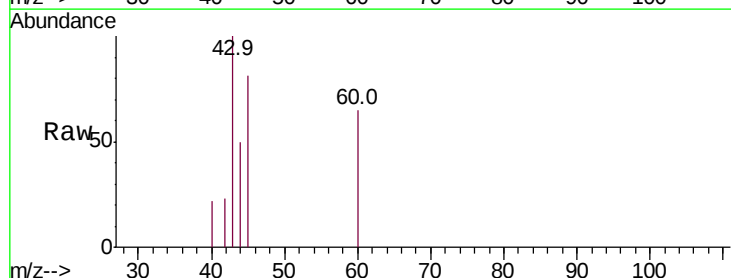
Tgt Ion: 43 Resp: 2456

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

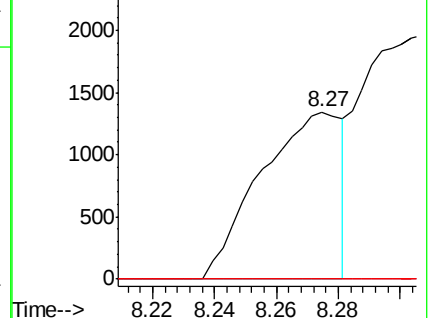
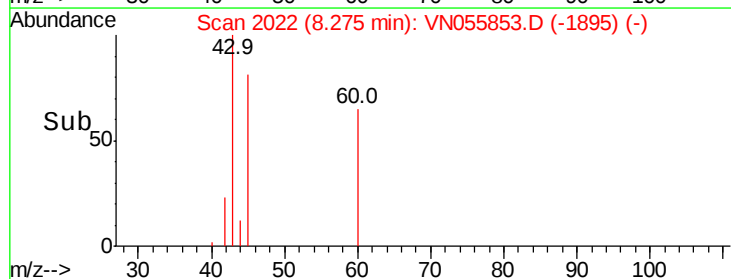
87 0.0 11.4 17.2#

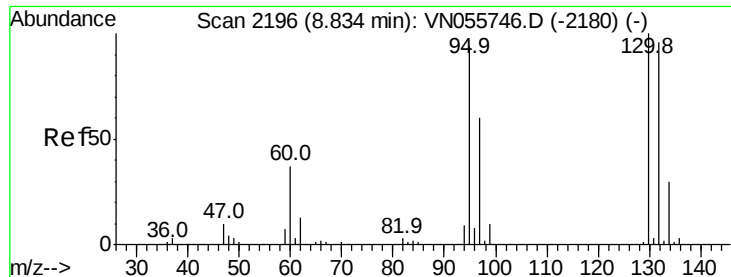


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#44

Trichloroethene

Concen: 1.829 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

Instrument :

MSVOA_N

ClientSampled :

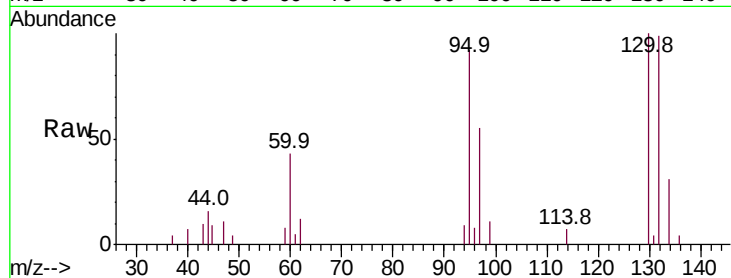
MW6-R1-1DL

Tot Ion:130 Resp: 8234

Ion Ratio Lower Upper

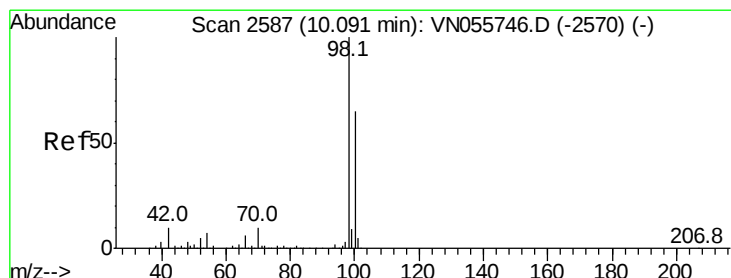
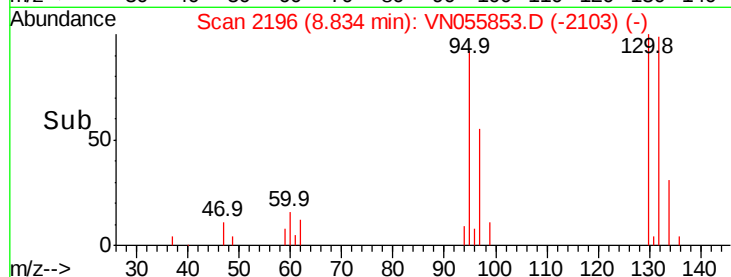
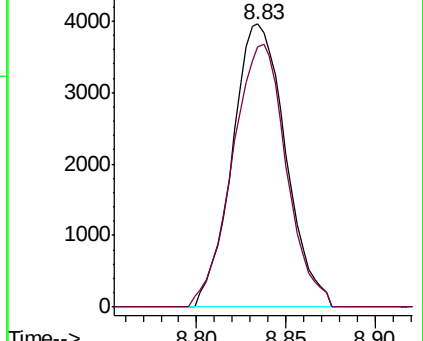
130 100

95 91.8 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN



#50

Toluene-d8

Concen: 48.727 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN055853.D

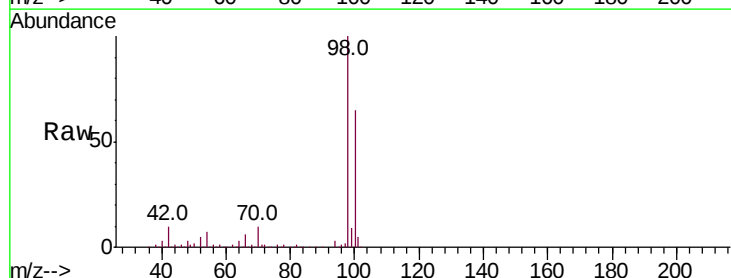
Acq: 28 May 2019 15:21

Tgt Ion: 98 Resp: 726638

Ion Ratio Lower Upper

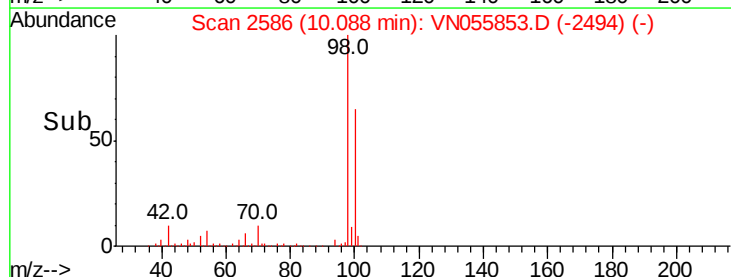
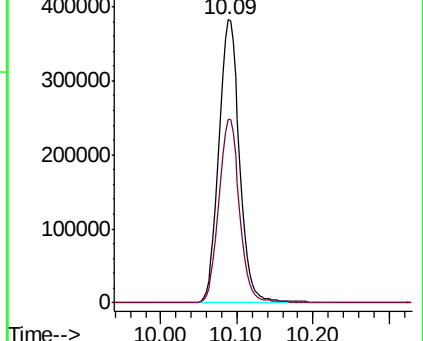
98 100

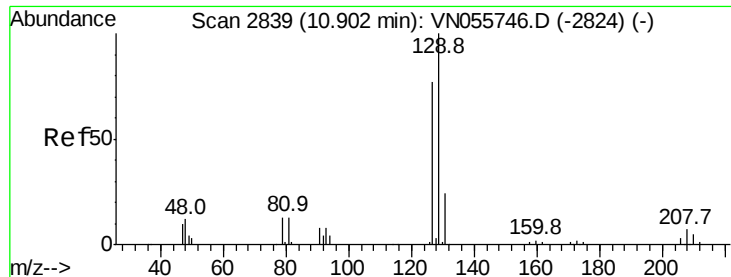
100 64.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#60

Dibromochloromethane

Concen: 1.324 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

Instrument :

MSVOA_N

ClientSampleId :

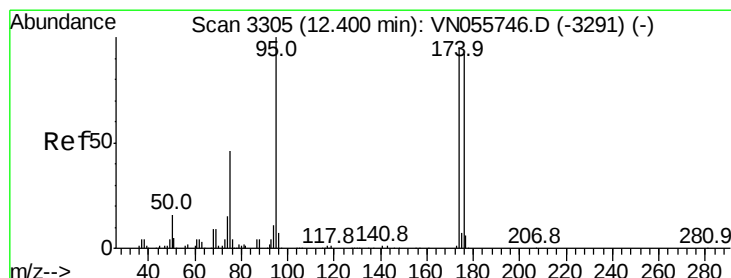
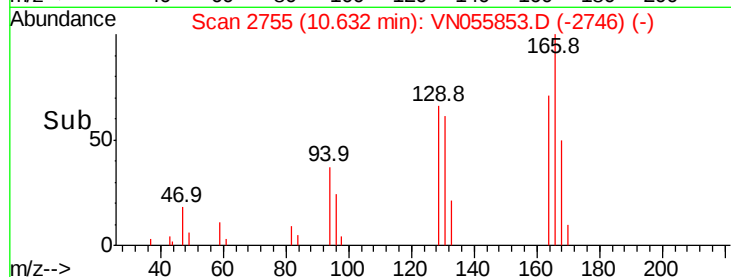
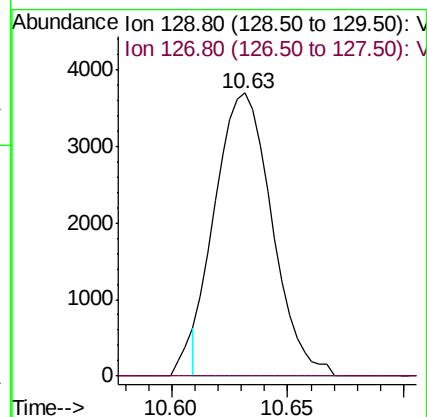
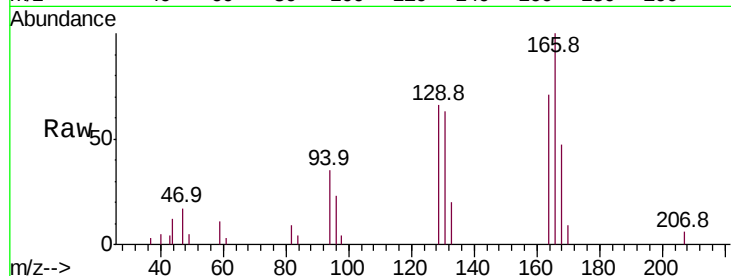
MW6-R1-1DL

Tot Ion:129 Resp: 6274

Ion Ratio Lower Upper

129 100

127 0.0 38.1 114.3#



#62

4-Bromofluorobenzene

Concen: 45.390 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

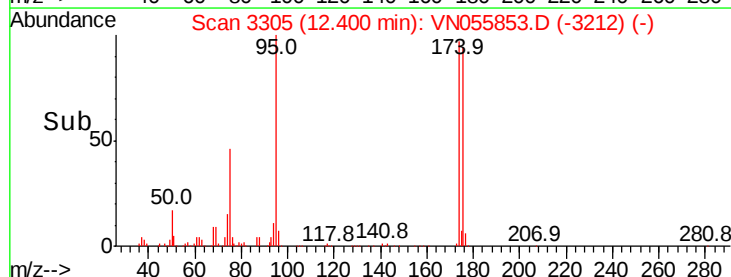
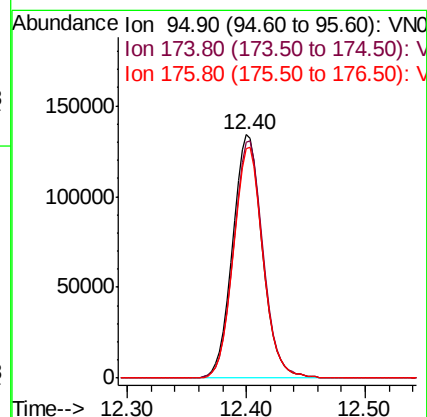
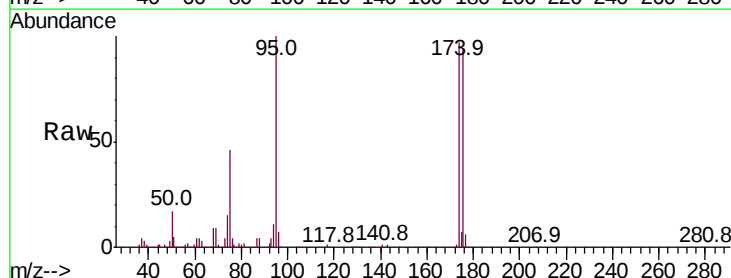
Tgt Ion: 95 Resp: 232096

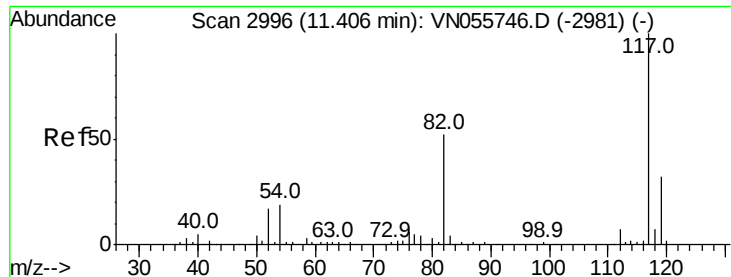
Ion Ratio Lower Upper

95 100

174 97.1 0.0 191.0

176 94.1 0.0 185.2

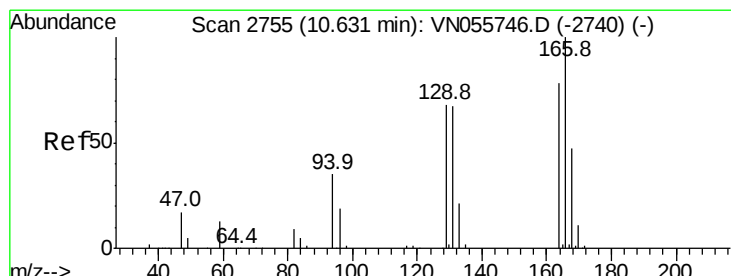
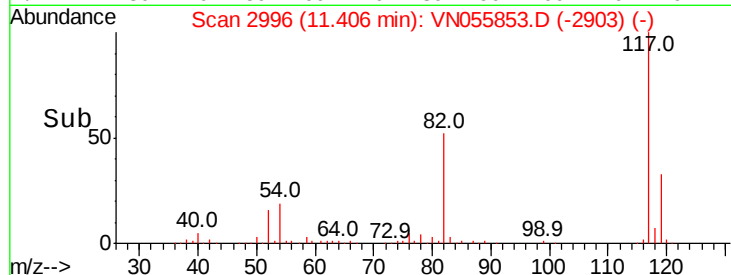
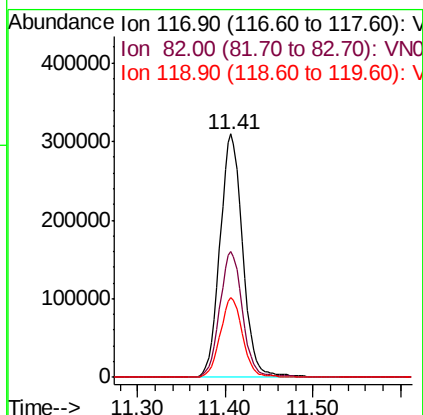
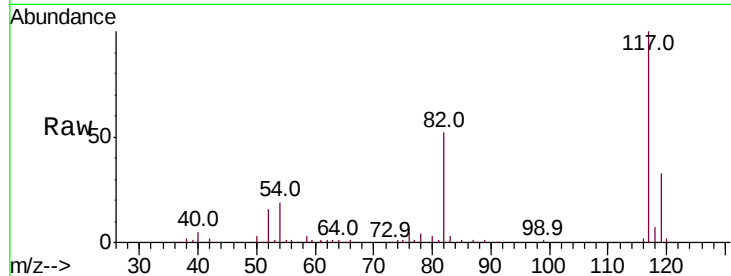




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055853.D
Acq: 28 May 2019 15:21

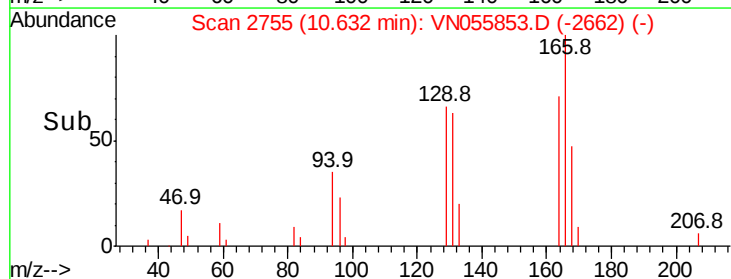
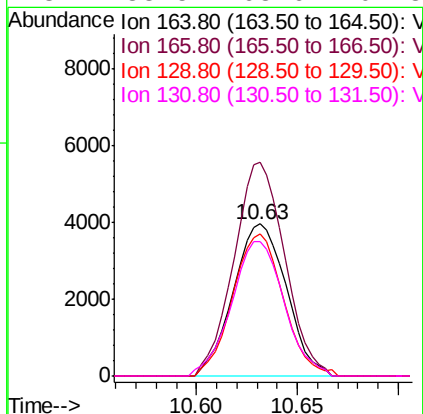
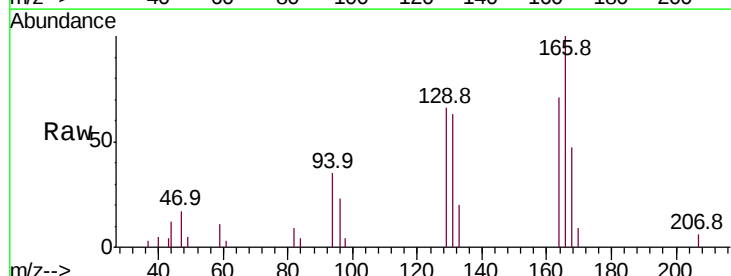
Instrument :
MSVOA_N
ClientSampleId :
MW6-R1-1DL

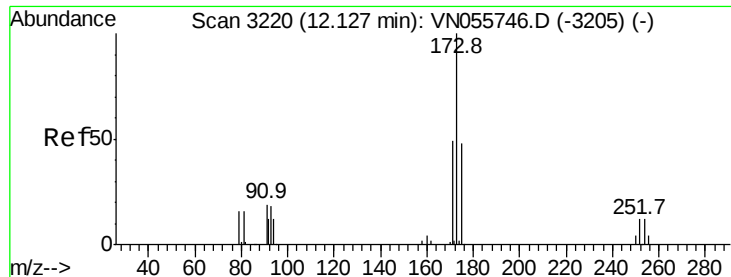
Tot Ion:117 Resp: 557929
Ion Ratio Lower Upper
117 100
82 51.9 41.8 62.8
119 32.8 25.4 38.0



#64
Tetrachloroethene
Concen: 1.549 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055853.D
Acq: 28 May 2019 15:21

Tgt Ion:164 Resp: 7290
Ion Ratio Lower Upper
164 100
166 140.3 103.0 154.6
129 93.1 70.6 105.8
131 88.5 68.6 102.8





#71

Bromoform

Concen: 0.413 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

Instrument :

MSVOA_N

ClientSampled :

MW6-R1-1DL

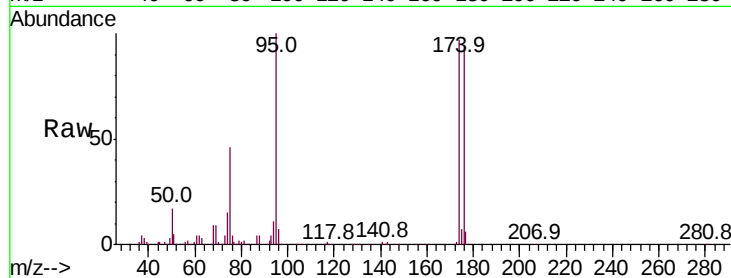
Tot Ion:173 Resp: 1568

Ion Ratio Lower Upper

173 100

175 918.0 24.3 72.8#

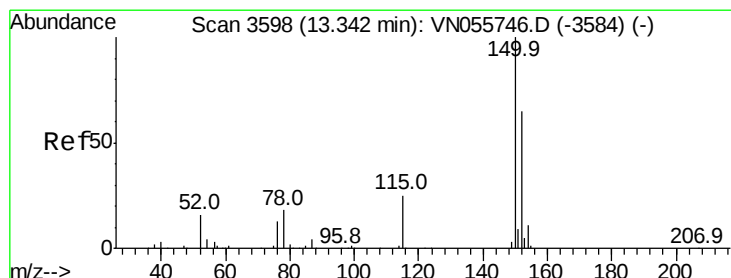
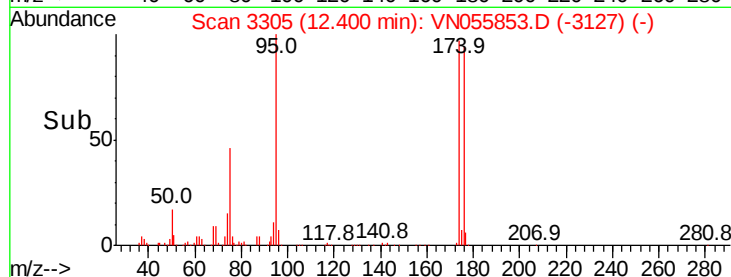
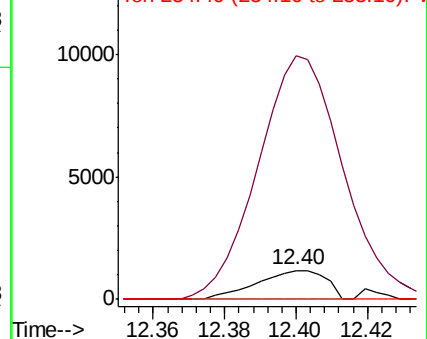
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

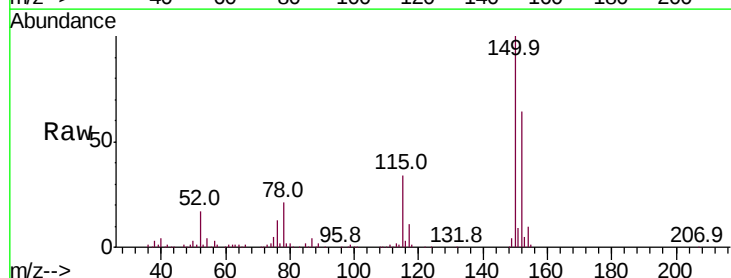
Tgt Ion:152 Resp: 191583

Ion Ratio Lower Upper

152 100

115 52.3 27.0 81.0

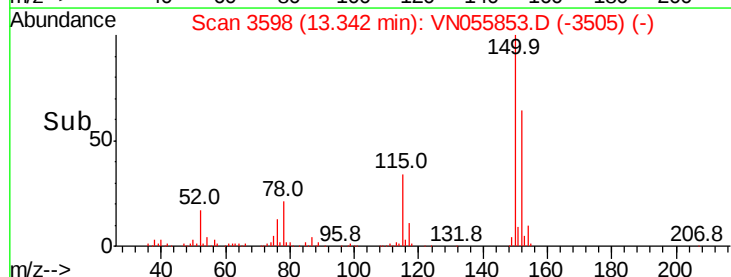
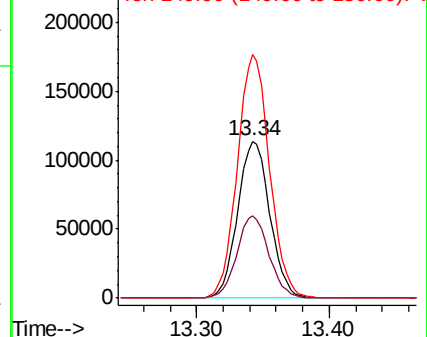
150 155.1 0.0 343.2

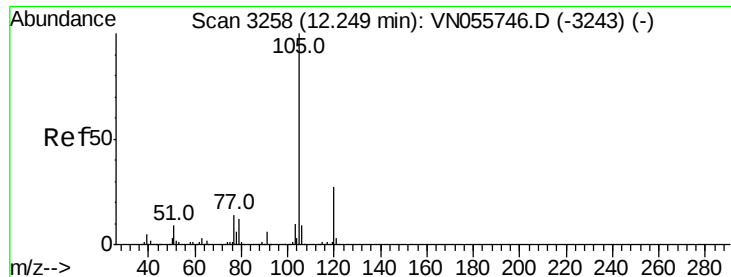


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.39 min Scan# 3303

Delta R.T. 0.15 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

Instrument :

MSVOA_N

ClientSampleId :

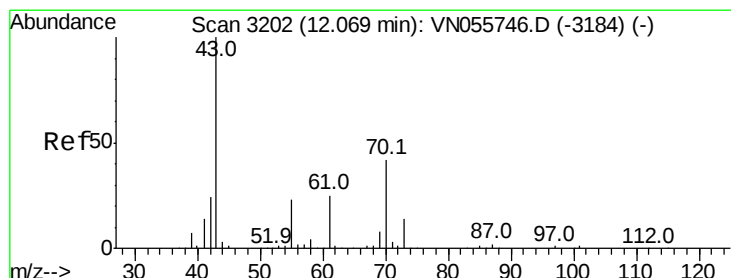
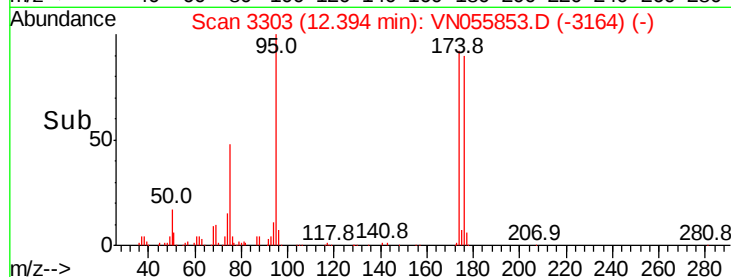
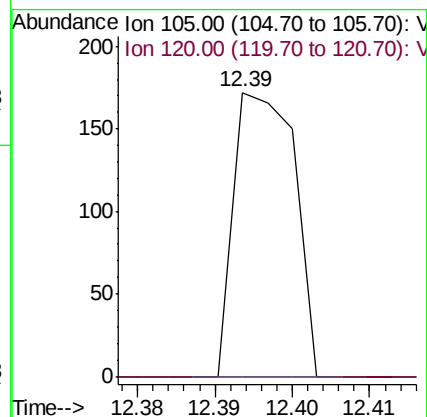
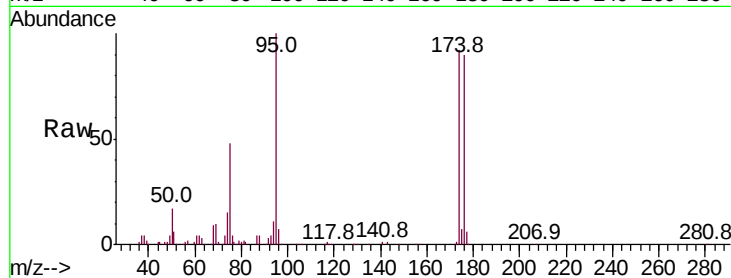
MW6-R1-1DL

Tot Ion:105 Resp: 94

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



#74

N-amyl acetate

Concen: Below Cal

RT: 12.08 min Scan# 3206

Delta R.T. 0.01 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

Tgt Ion: 43 Resp: 135

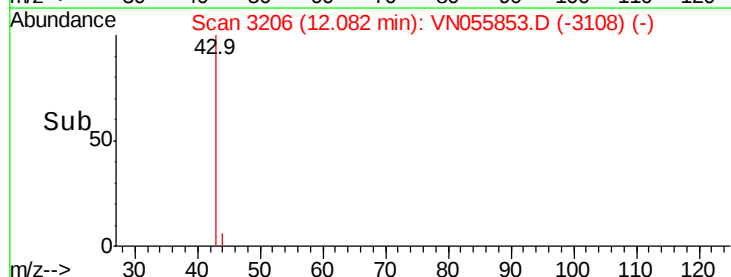
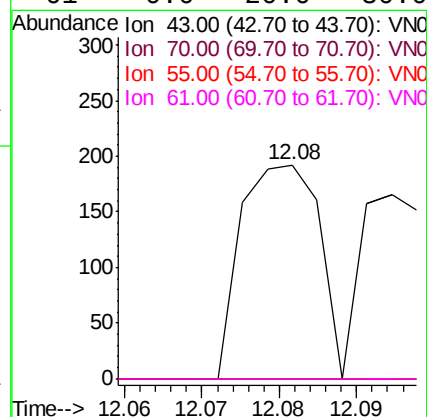
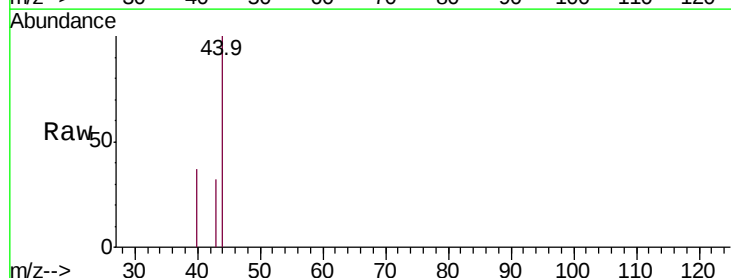
Ion Ratio Lower Upper

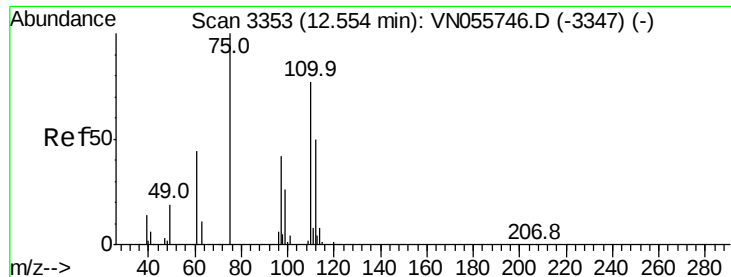
43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#





#76

1,2,3-Trichloropropane

Concen: 31.394 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

Instrument :

MSVOA_N

ClientSampleId :

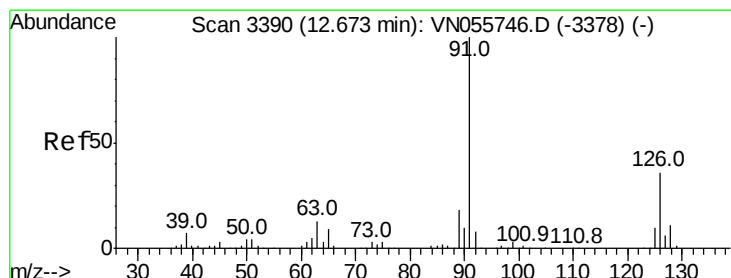
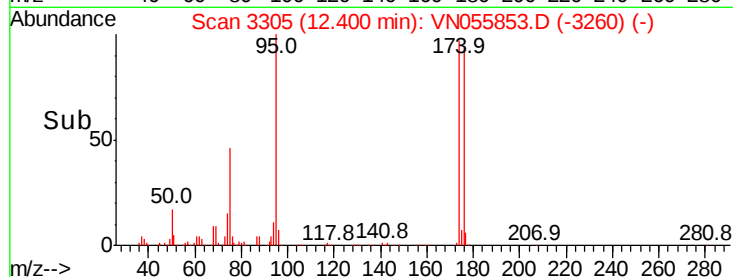
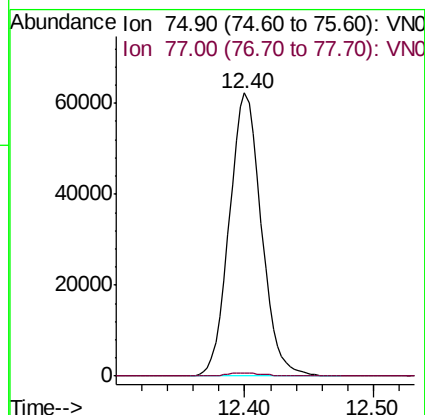
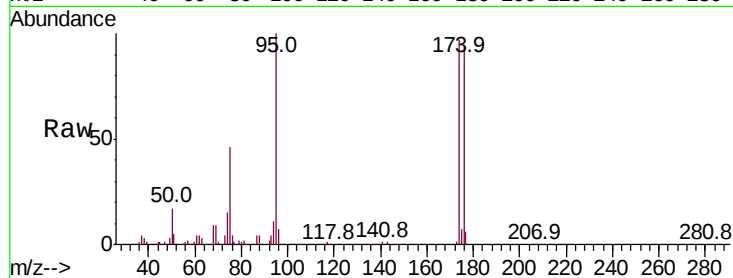
MW6-R1-1DL

Tot Ion: 75 Resp: 107430

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3363

Delta R.T. -0.09 min

Lab File: VN055853.D

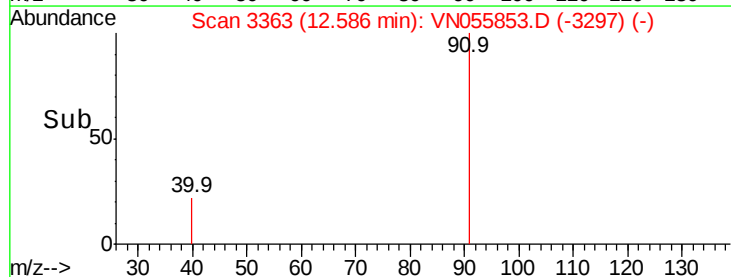
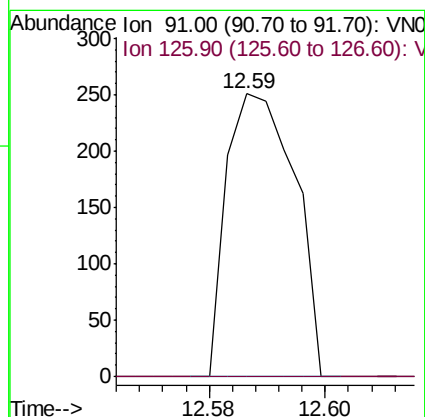
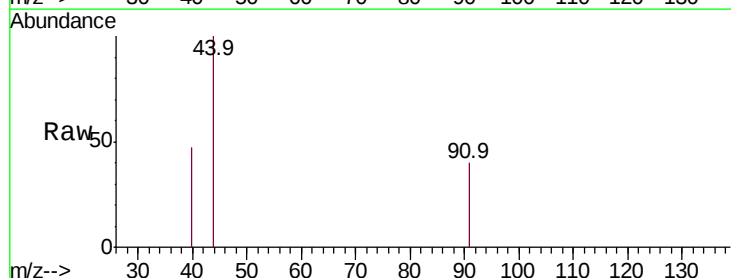
Acq: 28 May 2019 15:21

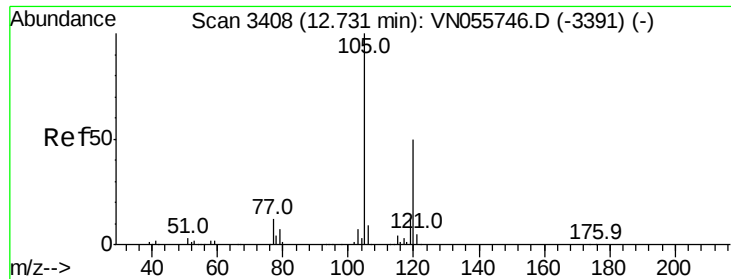
Tgt Ion: 91 Resp: 203

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.4#





#80

1,3,5-Trimethylbenzene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

Instrument :

MSVOA_N

ClientSampled :

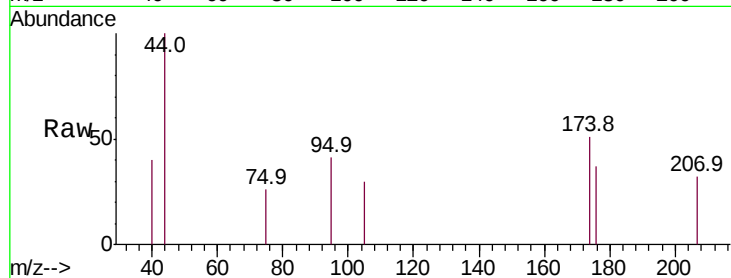
MW6-R1-1DL

Tot Ion: 105 Resp: 139

Ion Ratio Lower Upper

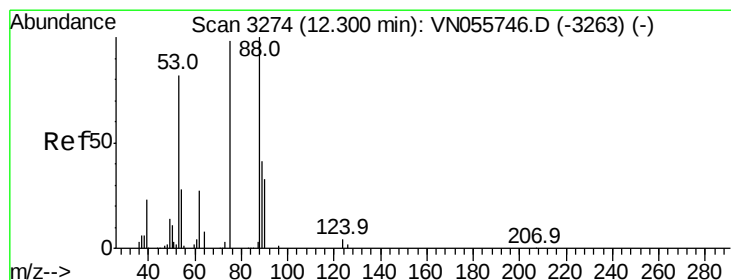
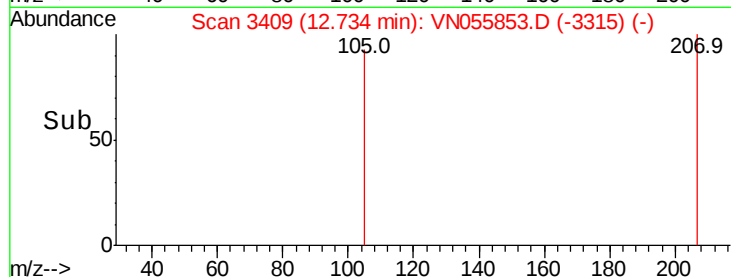
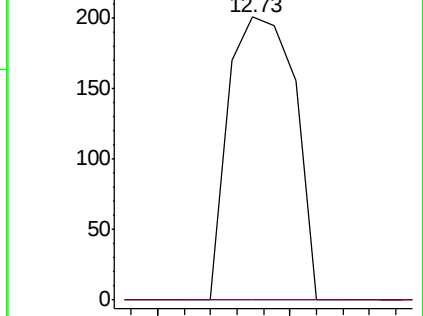
105 100

120 0.0 24.7 74.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 75.448 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

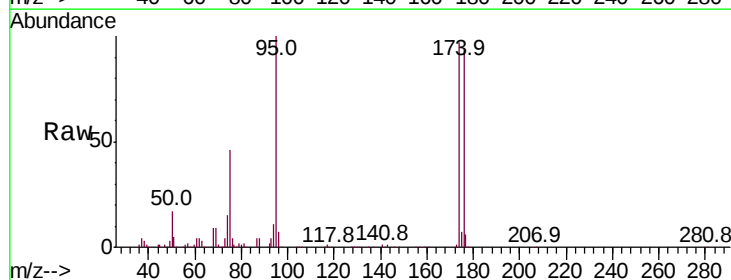
Tgt Ion: 75 Resp: 107430

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

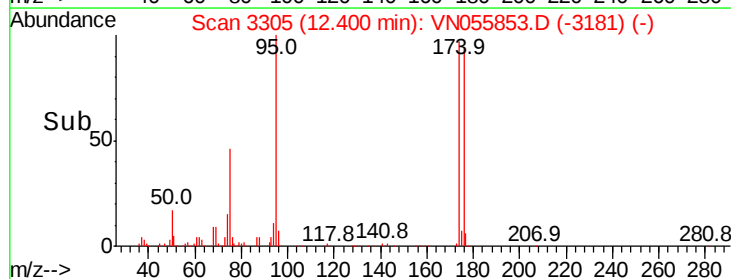
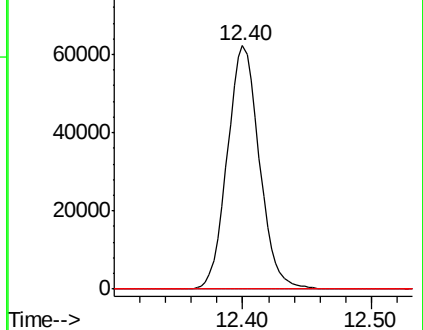
89 0.0 36.9 55.3#

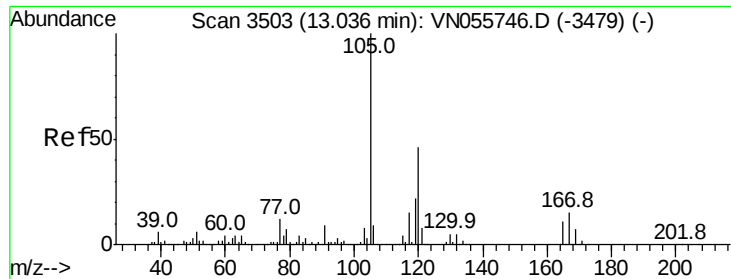


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V





#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3505

Delta R.T. 0.01 min

Lab File: VN055853.D

Acq: 28 May 2019 15:21

Instrument :

MSVOA_N

ClientSampleId :

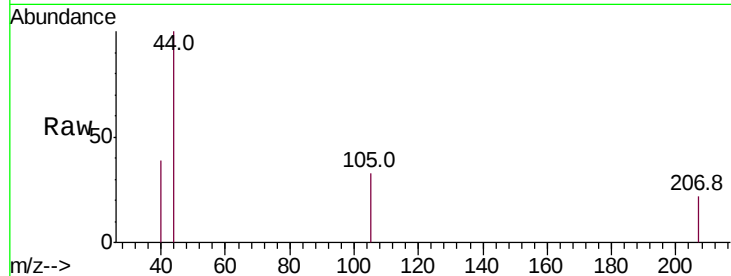
MW6-R1-1DL

Tot Ion:105 Resp: 331

Ion Ratio Lower Upper

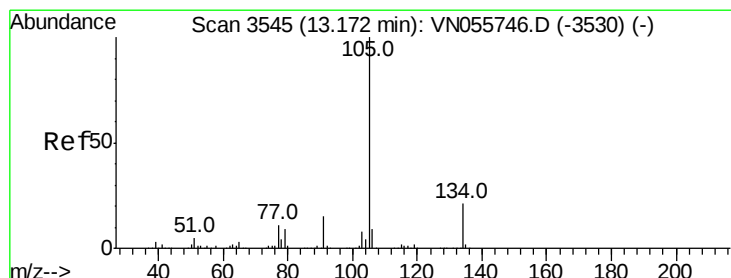
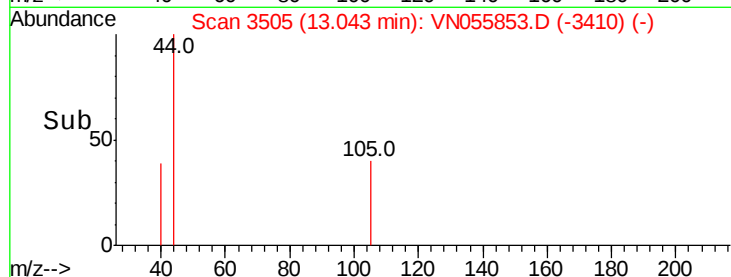
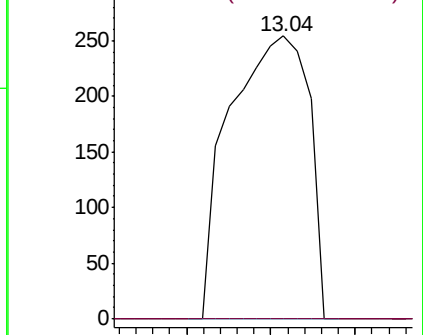
105 100

120 0.0 23.0 69.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055853.D

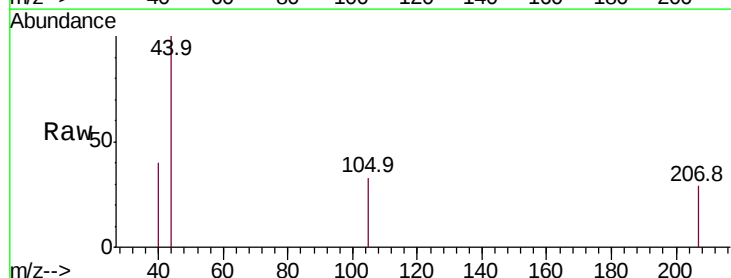
Acq: 28 May 2019 15:21

Tgt Ion:105 Resp: 191

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

