

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052819\
 Data File : VN055843.D
 Acq On : 28 May 2019 11:10
 Operator : JC/SP
 Sample : K3037-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-20190523

Quant Time: May 28 17:37:06 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	449546	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	639917	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	580644	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	201876	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	209617	45.15	ug/l	0.00
Spiked Amount			Recovery	=	90.30%	
35) Dibromofluoromethane	7.59	113	190934	47.19	ug/l	0.00
Spiked Amount			Recovery	=	94.38%	
50) Toluene-d8	10.09	98	760848	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	12.40	95	243678	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	

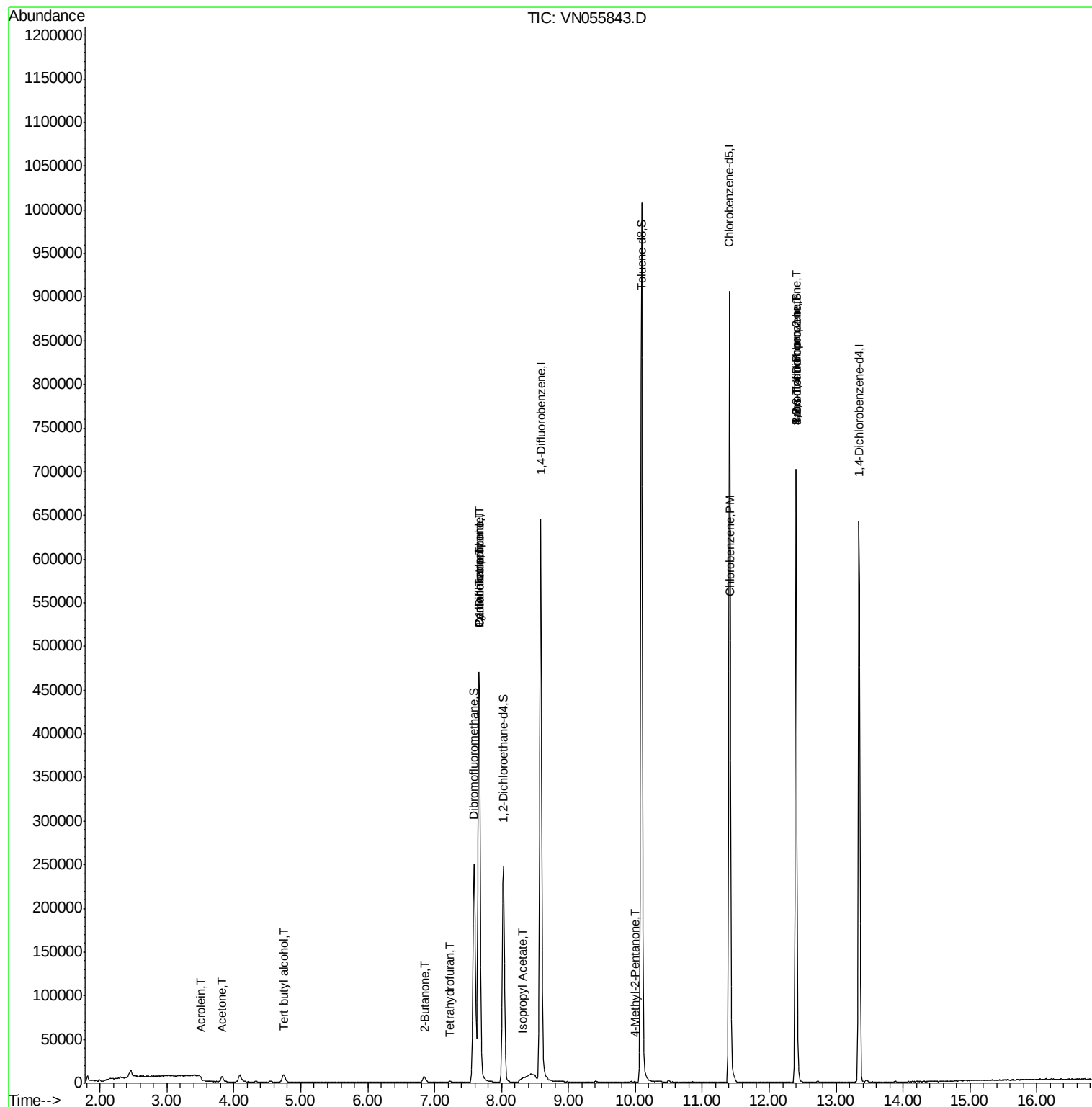
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	8088	9.118	ug/l #	74
13) Acrolein	3.51	56	185	0.291	ug/l #	15
16) Acetone	3.82	43	11080	5.429	ug/l	91
18) Methyl Acetate	4.34	43	2262	Below Cal	#	51
25) 2-Butanone	6.86	43	1936	0.679	ug/l #	47
29) Tetrahydrofuran	7.23	42	1003	0.556	ug/l #	59
31) Cyclohexane	7.66	56	6233	0.894	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	26414	4.737	ug/l #	48
38) Carbon Tetrachloride	7.66	117	36146	6.223	ug/l #	15
43) Isopropyl Acetate	8.31	43	4683	0.517	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1535	0.287	ug/l #	62
65) Chlorobenzene	11.43	112	2454	0.211	ug/l #	87
71) Bromoform	12.40	173	1858	0.470	ug/l #	1
73) Isopropylbenzene	12.40	105	143	Below Cal	#	48
74) N-amyl acetate	12.08	43	173	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	112267	31.107	ug/l #	100
79) 2-Chlorotoluene	12.40	91	703	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	112267	74.825	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	336	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	60	Below Cal	#	55

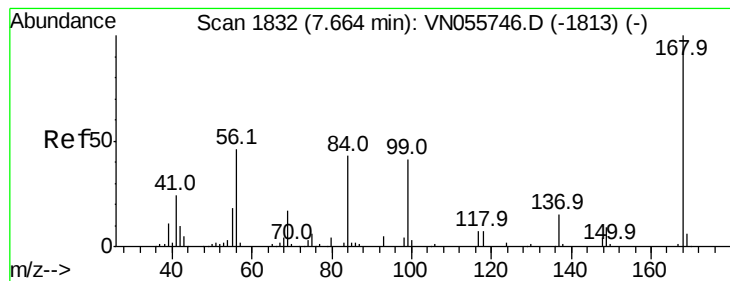
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampleId :

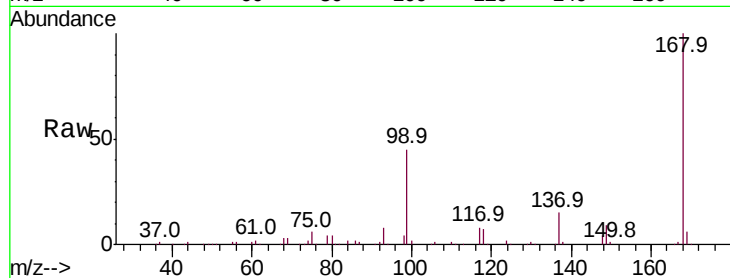
FB-20190523

Tot Ion:168 Resp: 449546

Ion Ratio Lower Upper

168 100

99 45.4 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

200000

150000

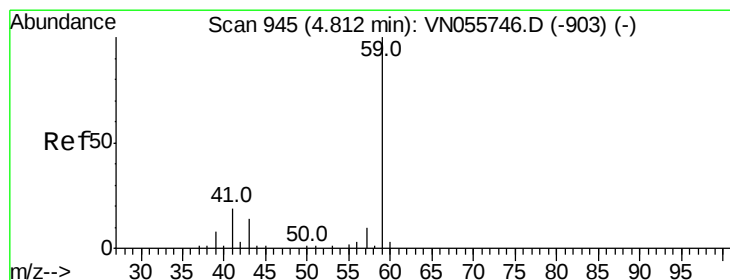
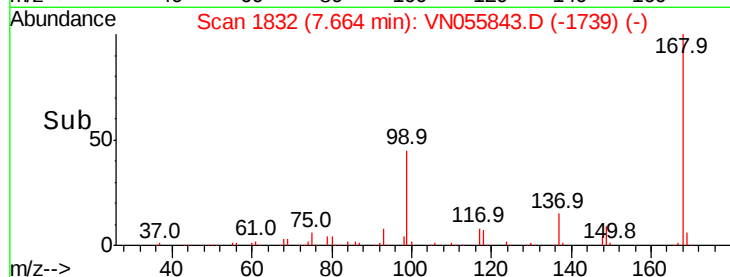
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 9.118 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.07 min

Lab File: VN055843.D

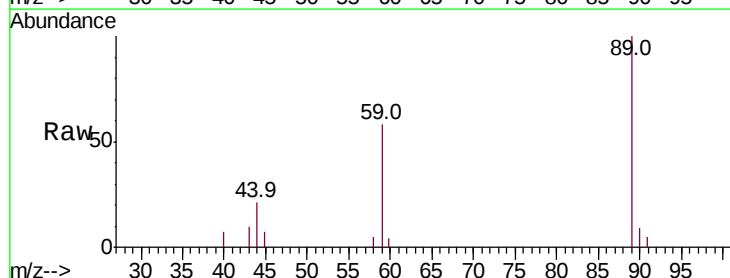
Acq: 28 May 2019 11:10

Tgt Ion: 59 Resp: 8088

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.74

2500

2000

1500

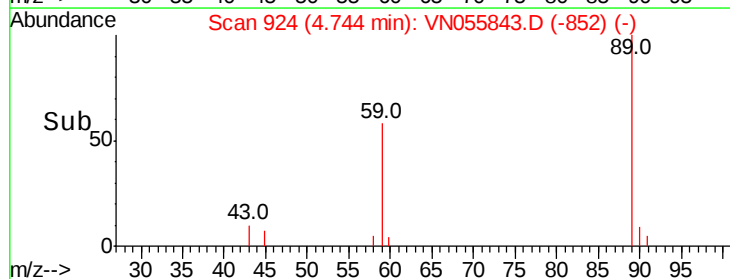
1000

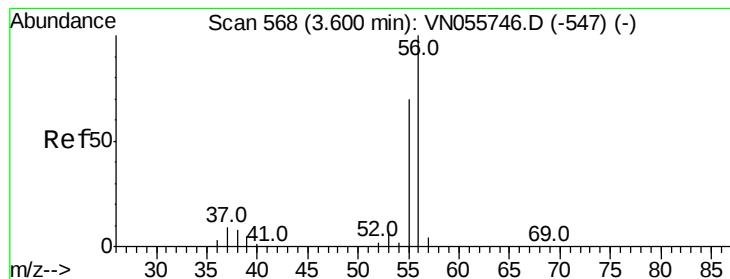
500

0

4.65 4.70 4.75 4.80

Time-->





#13

Acrolein

Concen: 0.291 ug/l

RT: 3.51 min Scan# 540

Delta R.T. -0.09 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampleId :

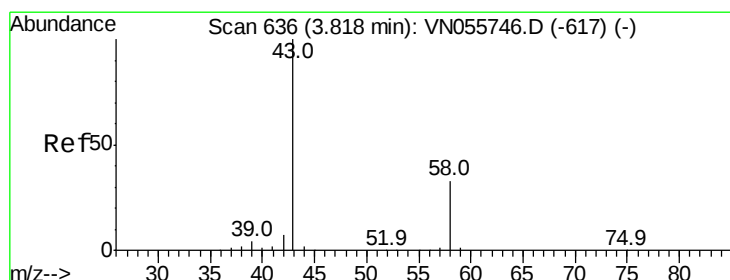
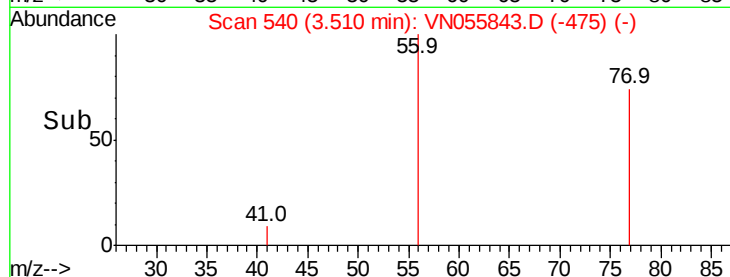
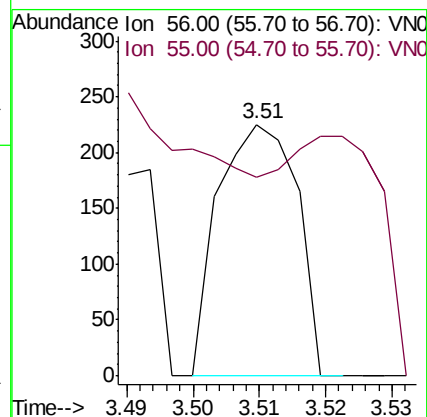
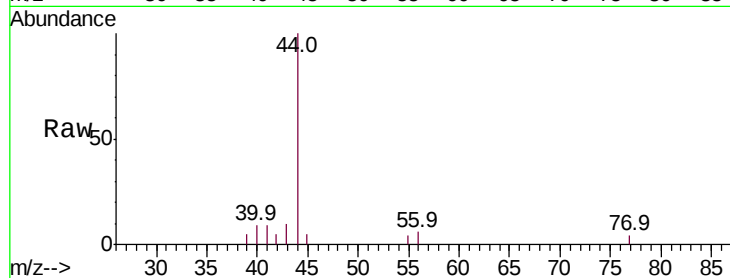
FB-20190523

Tot Ion: 56 Resp: 185

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.2#



#16

Acetone

Concen: 5.429 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN055843.D

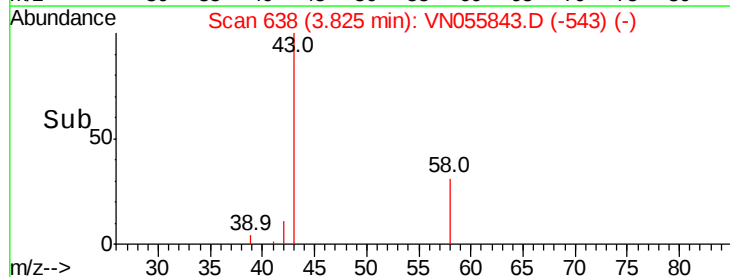
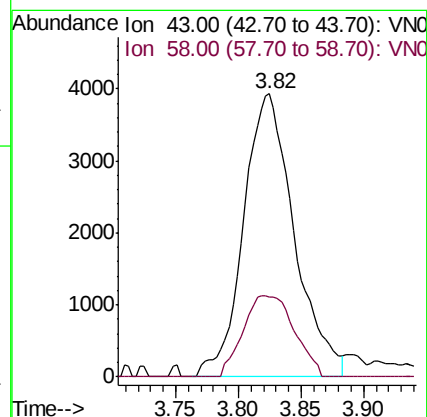
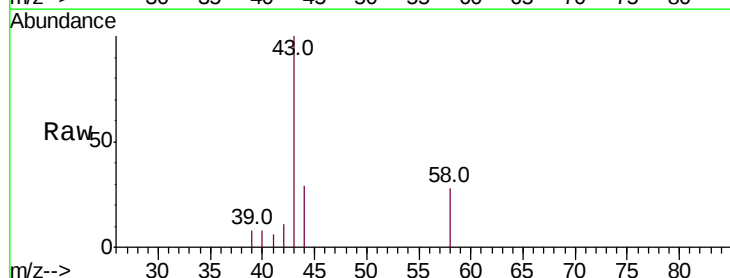
Acq: 28 May 2019 11:10

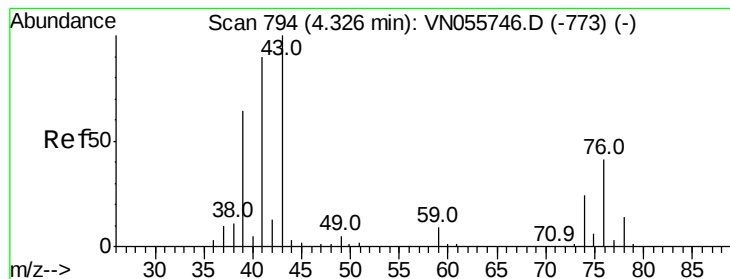
Tgt Ion: 43 Resp: 11080

Ion Ratio Lower Upper

43 100

58 28.1 26.6 39.8





#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampled :

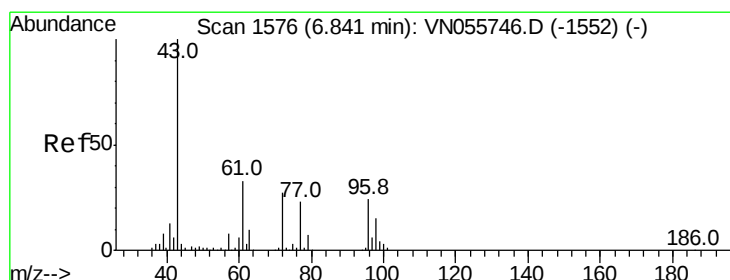
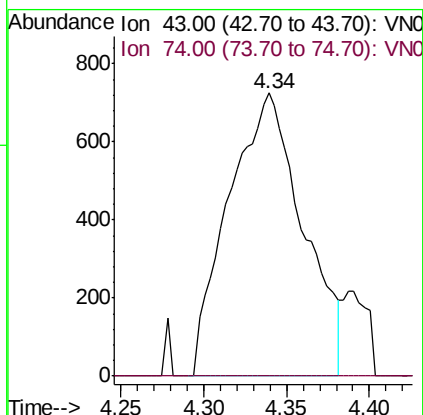
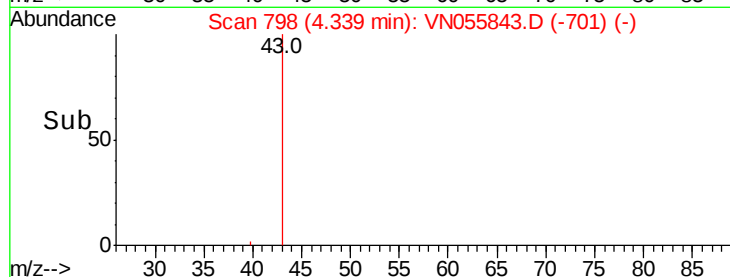
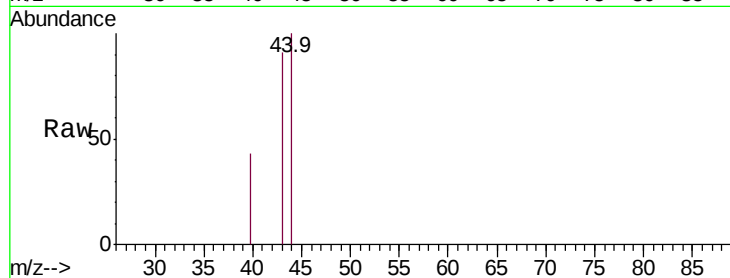
FB-20190523

Tot Ion: 43 Resp: 2262

Ion Ratio Lower Upper

43 100

74 0.0 19.3 28.9#



#25

2-Butanone

Concen: 0.679 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.02 min

Lab File: VN055843.D

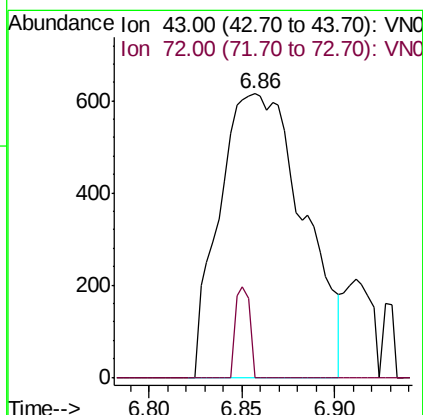
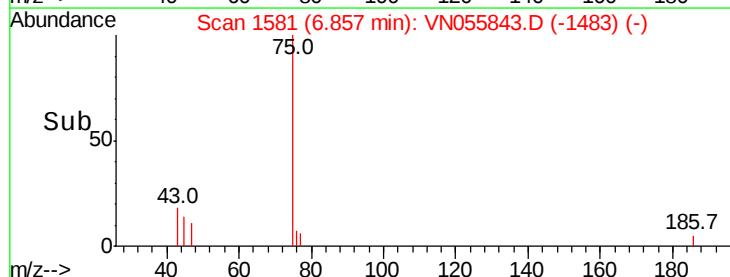
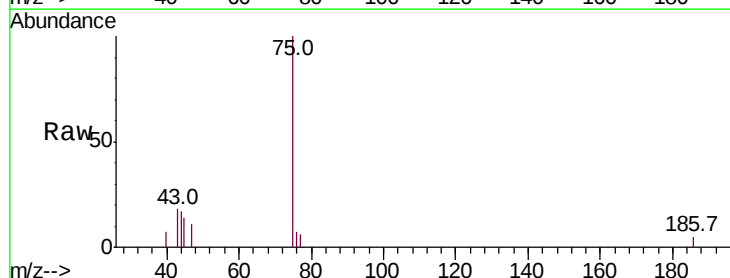
Acq: 28 May 2019 11:10

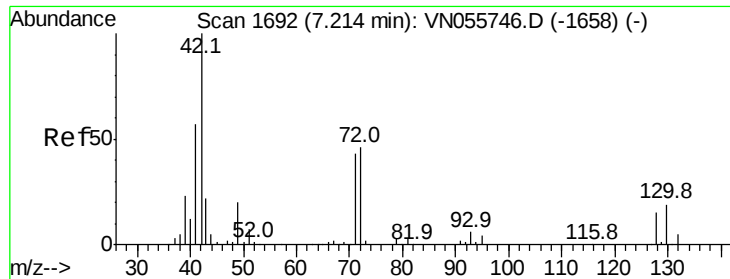
Tgt Ion: 43 Resp: 1936

Ion Ratio Lower Upper

43 100

72 0.0 21.9 32.9#





#29

Tetrahydrofuran

Concen: 0.556 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampled :

FB-20190523

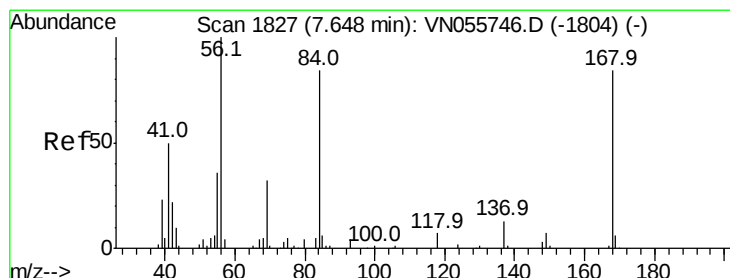
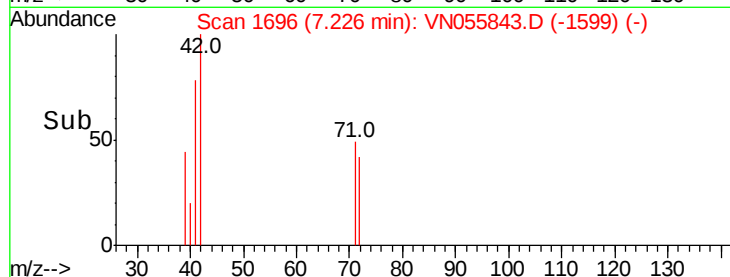
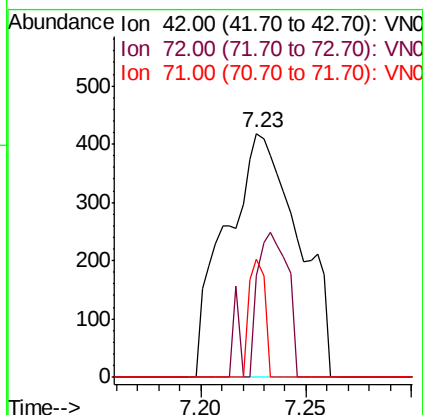
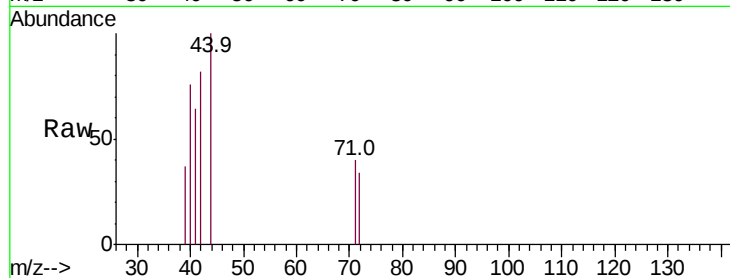
Tot Ion: 42 Resp: 1003

Ion Ratio Lower Upper

42 100

72 24.3 35.9 53.9#

71 10.5 34.0 51.0#



#31

Cyclohexane

Concen: 0.894 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

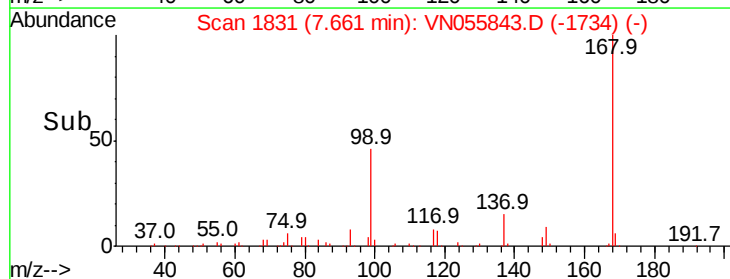
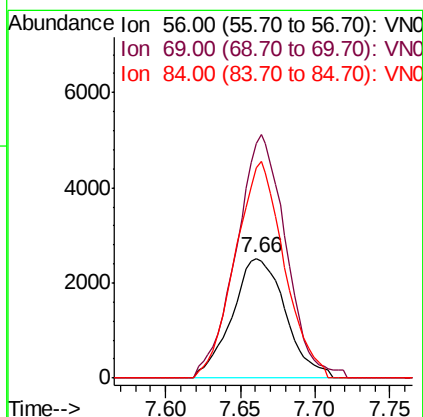
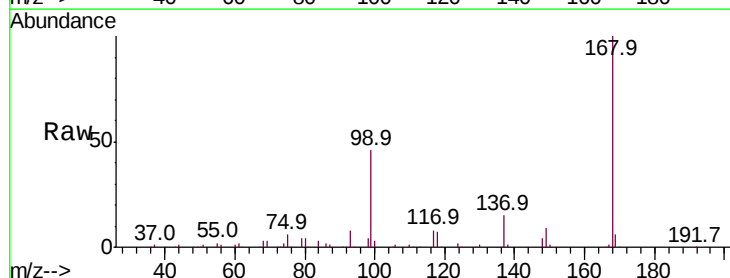
Tgt Ion: 56 Resp: 6233

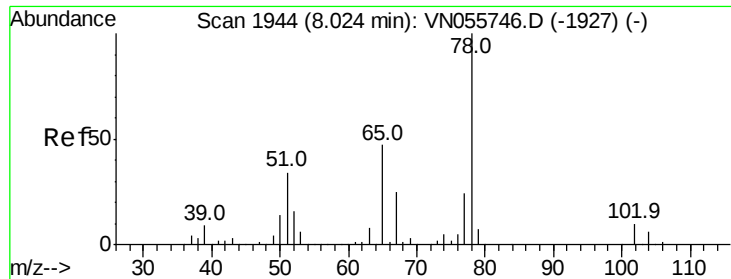
Ion Ratio Lower Upper

56 100

69 196.5 25.6 38.4#

84 176.3 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 45.151 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampleId :

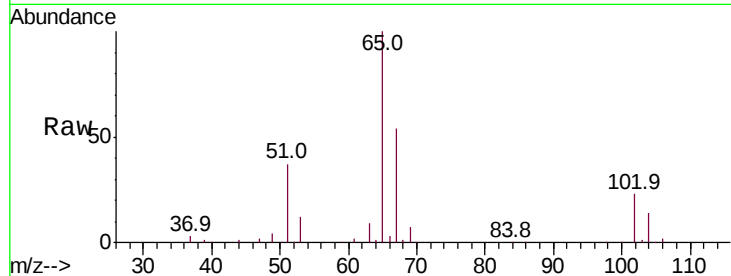
FB-20190523

Tot Ion: 65 Resp: 209617

Ion Ratio Lower Upper

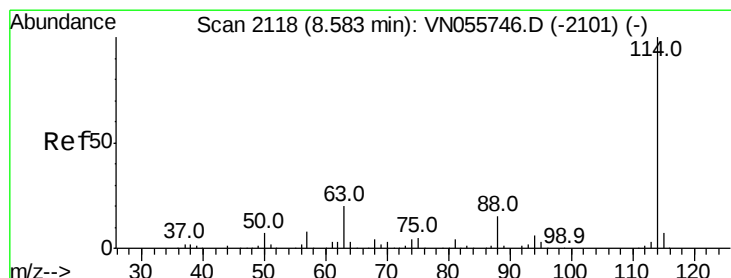
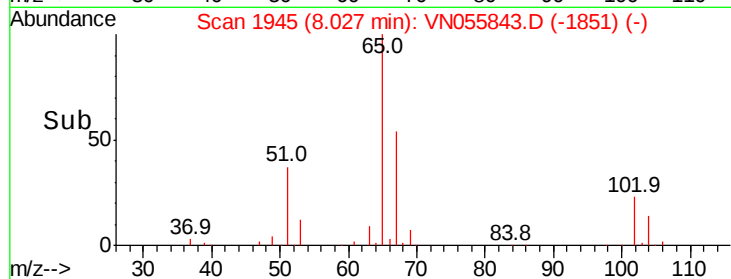
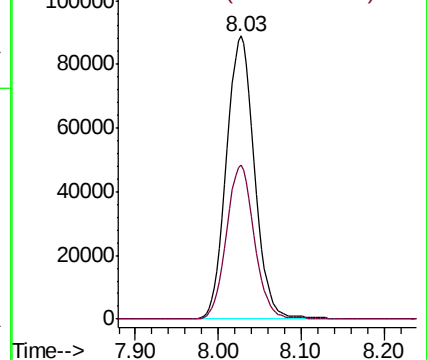
65 100

67 53.9 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN055746.D (-1927) (-)

Ion 66.90 (66.60 to 67.60): VN055746.D (-1927) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

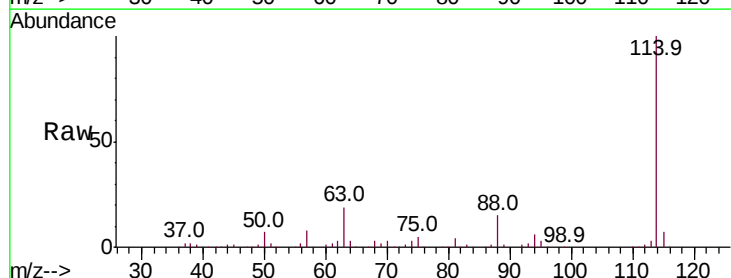
Tgt Ion: 114 Resp: 639917

Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.2

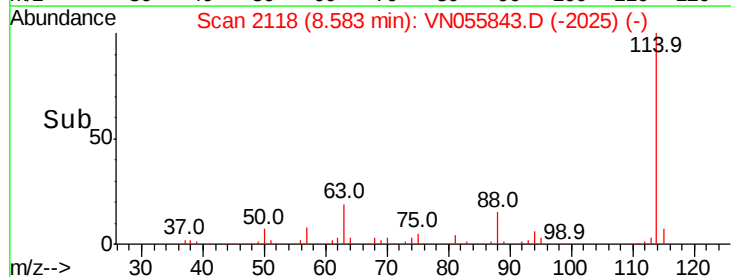
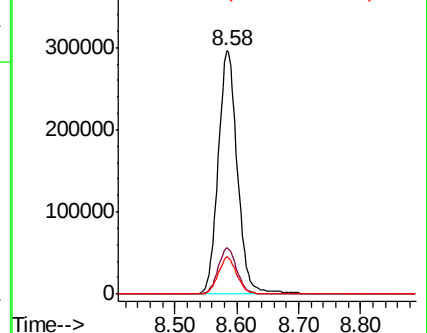
88 15.3 0.0 31.0

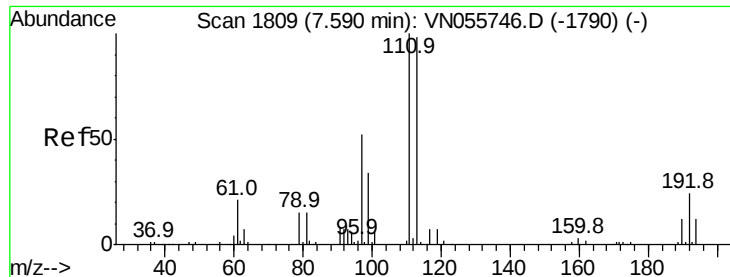


Abundance Ion 113.90 (113.60 to 114.60): VN055746.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN055746.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN055746.D (-2101) (-)

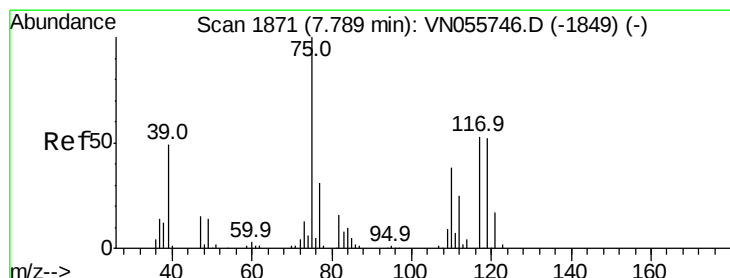
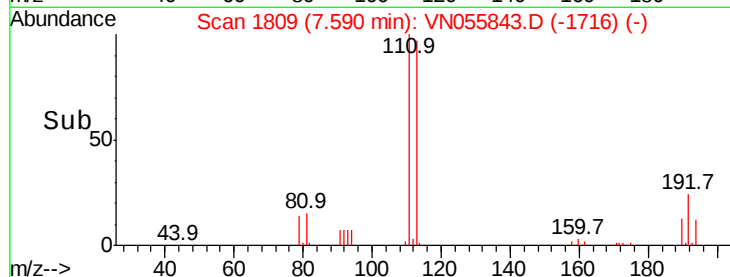
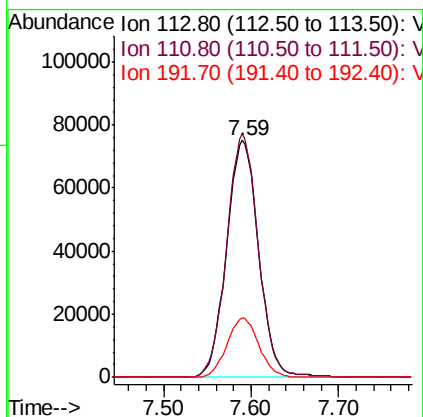
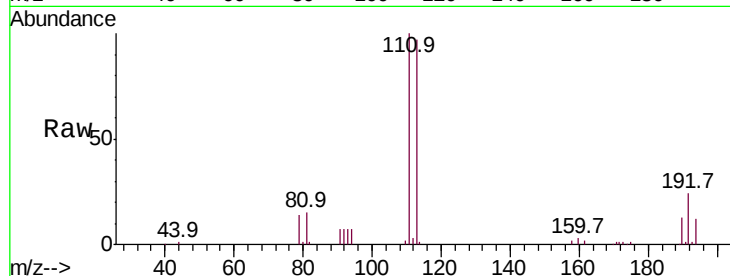




#35
 Dibromofluoromethane
 Concen: 47.193 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055843.D
 Acq: 28 May 2019 11:10

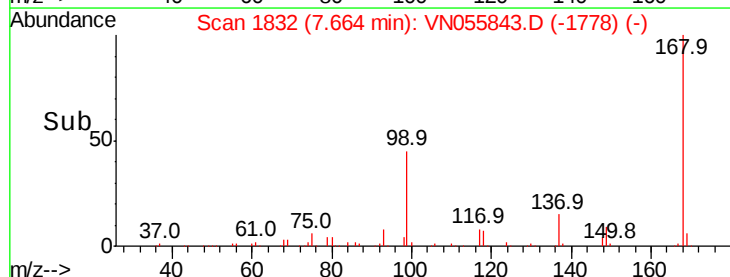
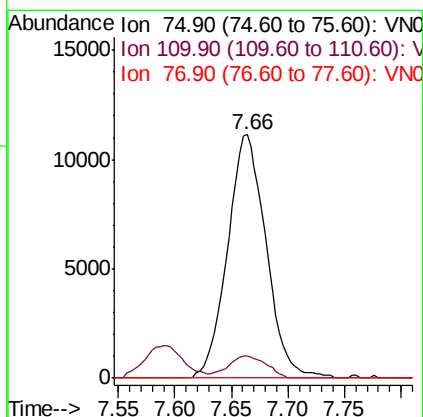
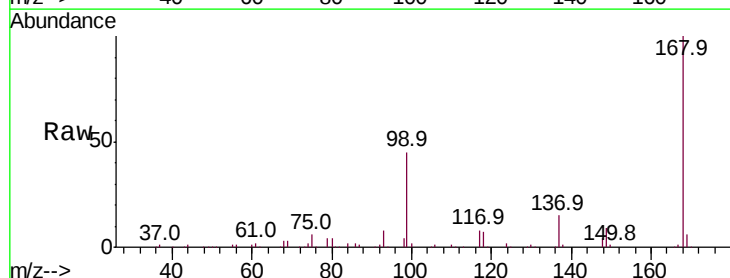
Instrument :
 MSVOA_N
 ClientSampled :
 FB-20190523

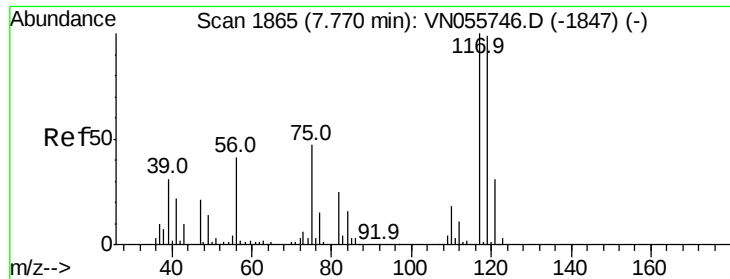
Tot Ion:113 Resp: 190934
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.9 122.9
 192 25.0 19.5 29.3



#36
 1,1-Dichloropropene
 Concen: 4.737 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055843.D
 Acq: 28 May 2019 11:10

Tgt Ion: 75 Resp: 26414
 Ion Ratio Lower Upper
 75 100
 110 9.0 19.0 57.0#
 77 0.0 25.1 37.7#

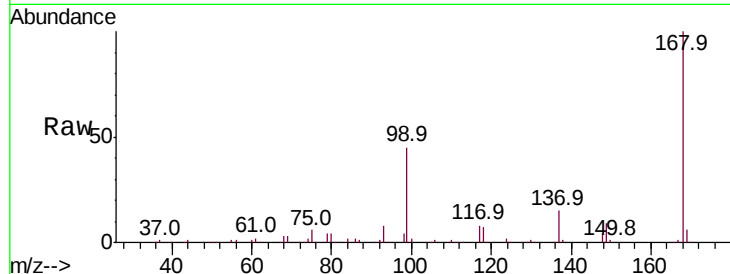




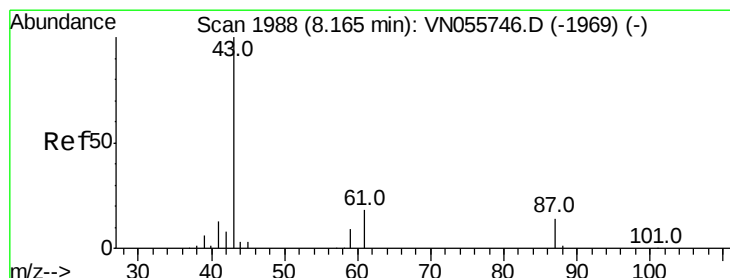
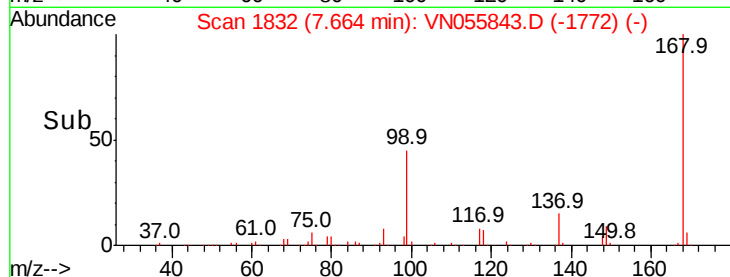
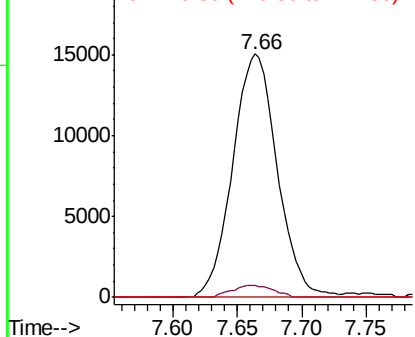
#38
Carbon Tetrachloride
Concen: 6.223 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN055843.D
Acq: 28 May 2019 11:10

Instrument :
MSVOA_N
ClientSampleId :
FB-20190523

Tot Ion:117 Resp: 36146
Ion Ratio Lower Upper
117 100
119 4.9 79.0 118.6#
121 0.0 24.7 37.1#

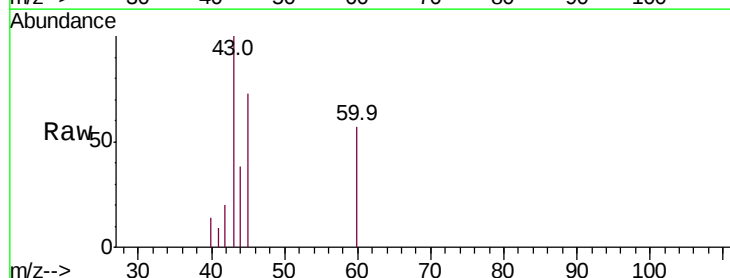


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

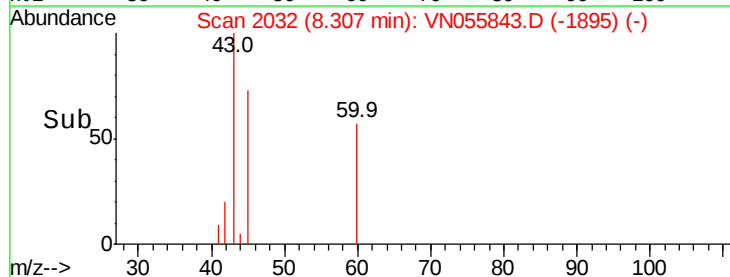
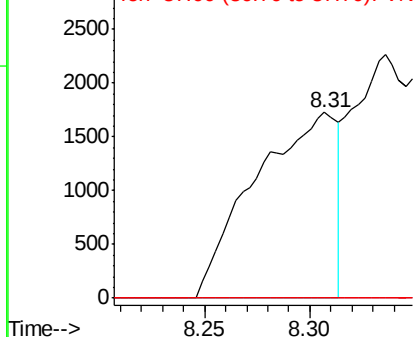


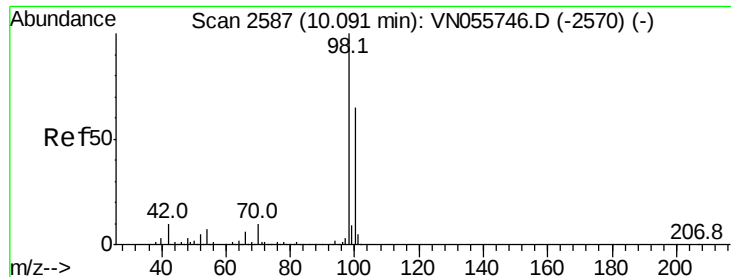
#43
Isopropyl Acetate
Concen: 0.517 ug/l
RT: 8.31 min Scan# 2032
Delta R.T. 0.14 min
Lab File: VN055843.D
Acq: 28 May 2019 11:10

Tgt Ion: 43 Resp: 4683
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: 49.026 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampled :

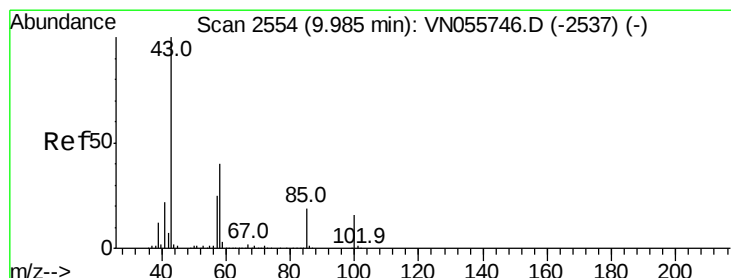
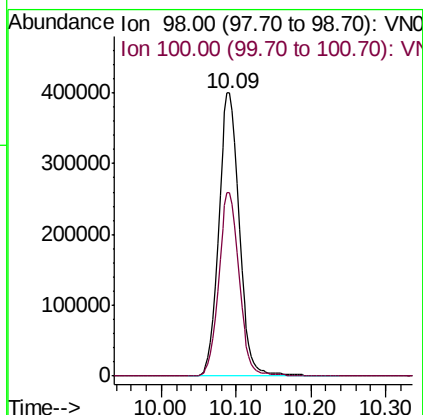
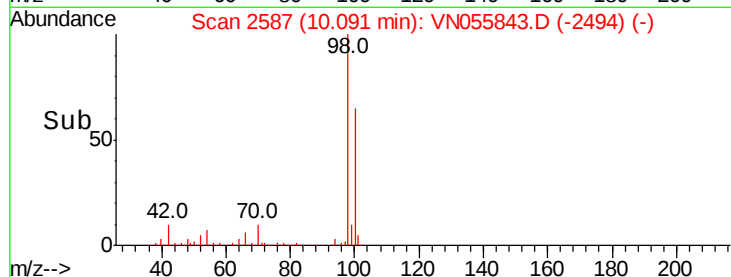
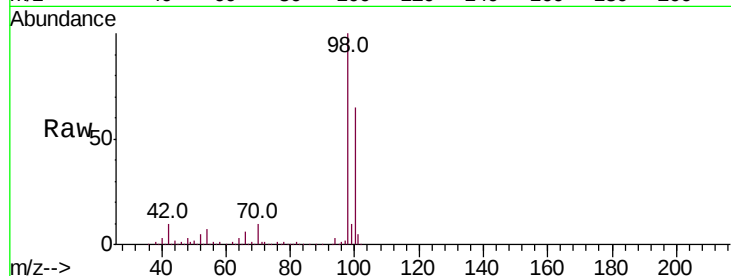
FB-20190523

Tot Ion: 98 Resp: 760848

Ion Ratio Lower Upper

98 100

100 64.5 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 0.287 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN055843.D

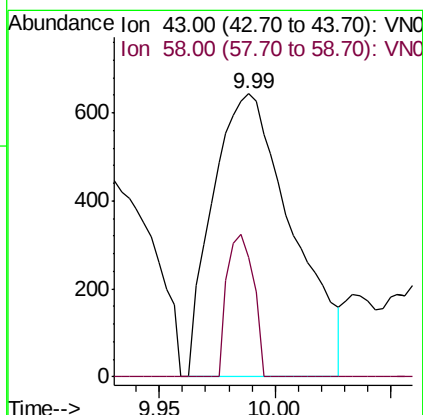
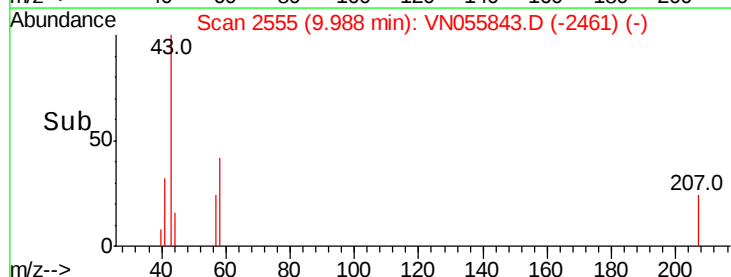
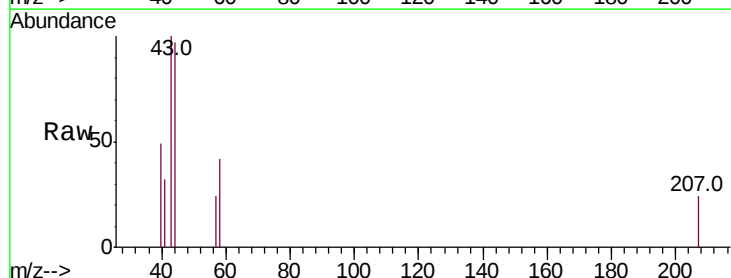
Acq: 28 May 2019 11:10

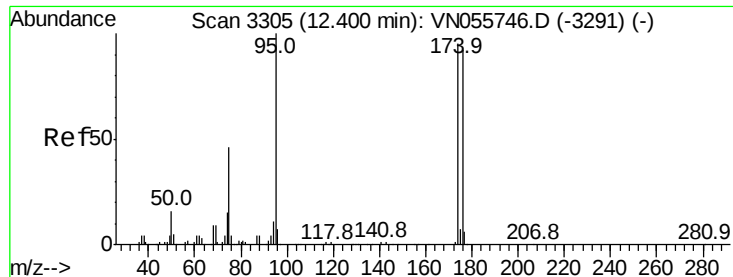
Tgt Ion: 43 Resp: 1535

Ion Ratio Lower Upper

43 100

58 16.5 32.1 48.1#





#62

4-Bromofluorobenzene

Concen: 45.792 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampleId :

FB-20190523

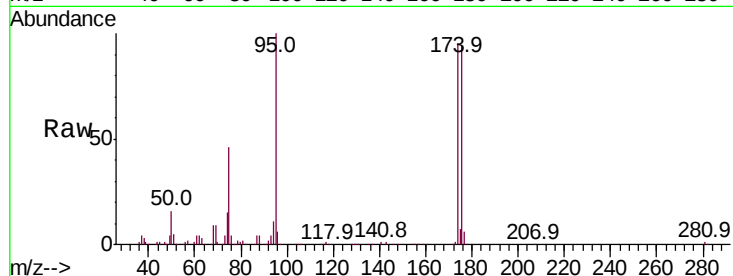
Tot Ion: 95 Resp: 243678

Ion Ratio Lower Upper

95 100

174 96.9 0.0 191.0

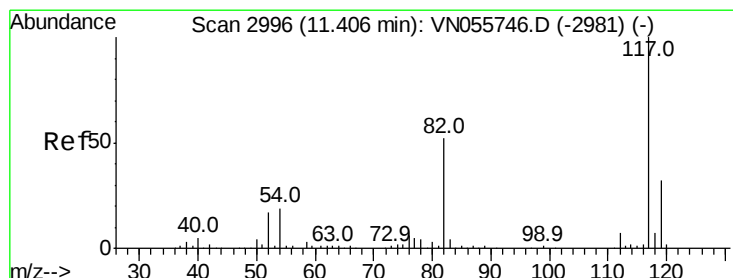
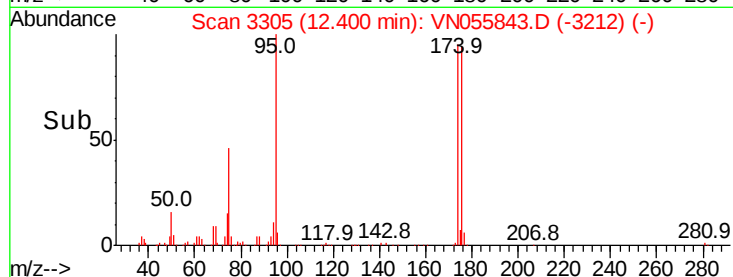
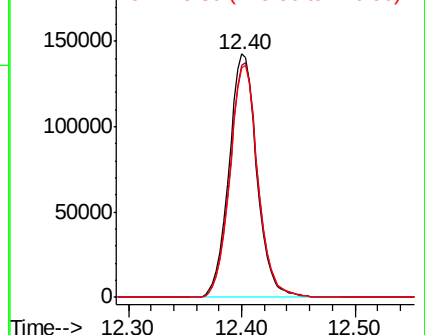
176 95.5 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055746.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055746.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055746.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

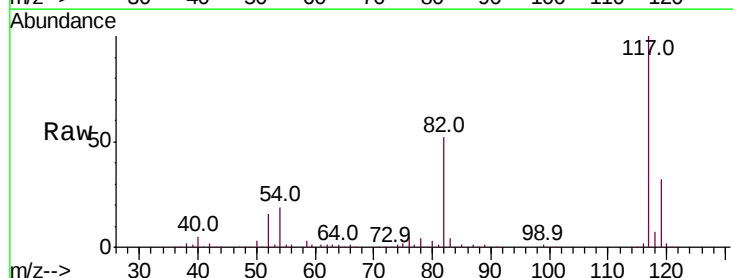
Tgt Ion: 117 Resp: 580644

Ion Ratio Lower Upper

117 100

82 51.7 41.8 62.8

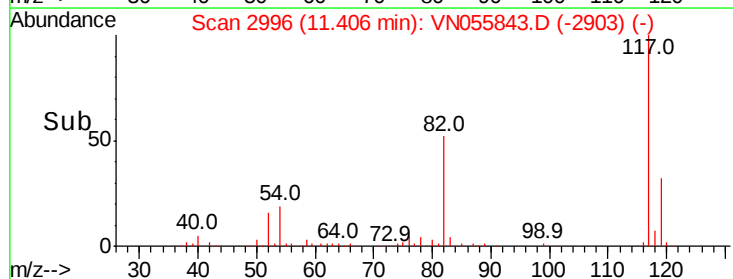
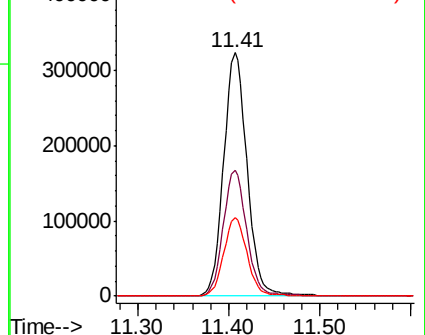
119 32.4 25.4 38.0

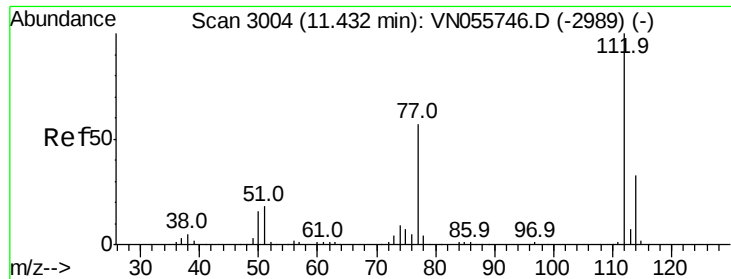


Abundance Ion 116.90 (116.60 to 117.60): VN055746.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055746.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055746.D (-2981) (-)





#65

Chlorobenzene

Concen: 0.211 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampleId :

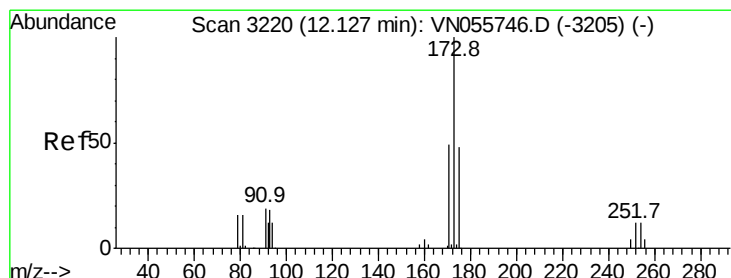
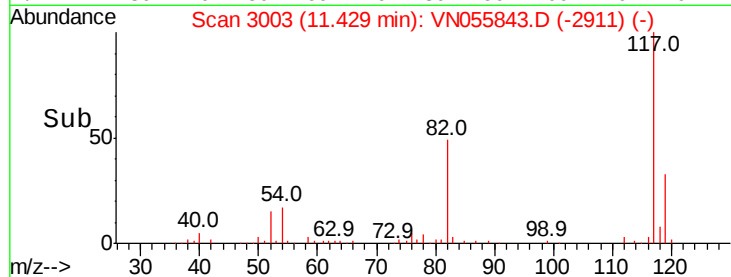
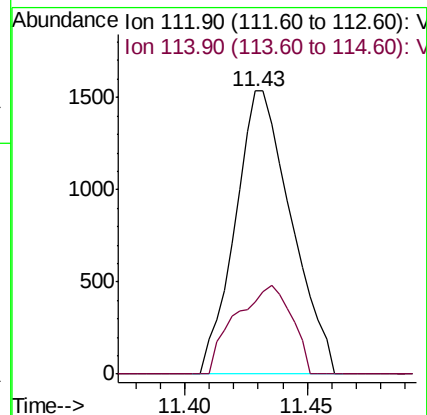
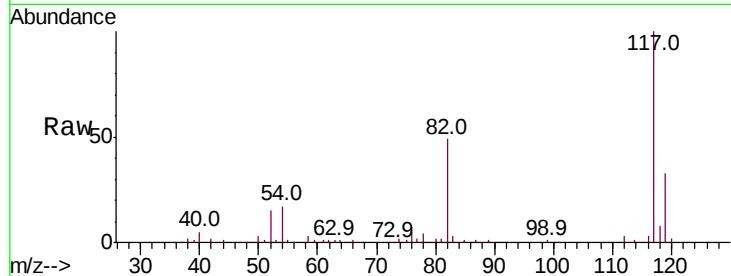
FB-20190523

Tot Ion:112 Resp: 2454

Ion Ratio Lower Upper

112 100

114 25.6 26.2 39.4#



#71

Bromoform

Concen: 0.470 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

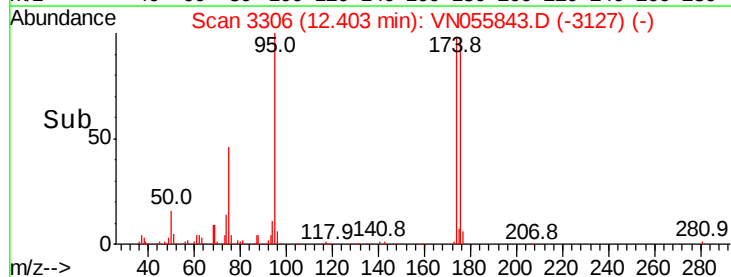
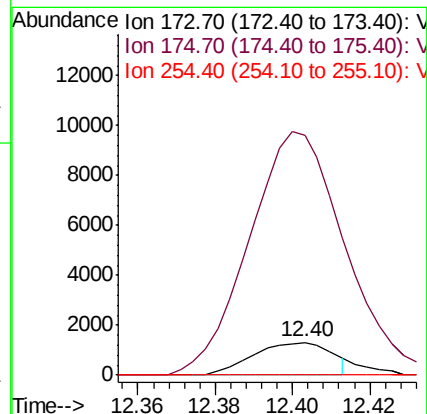
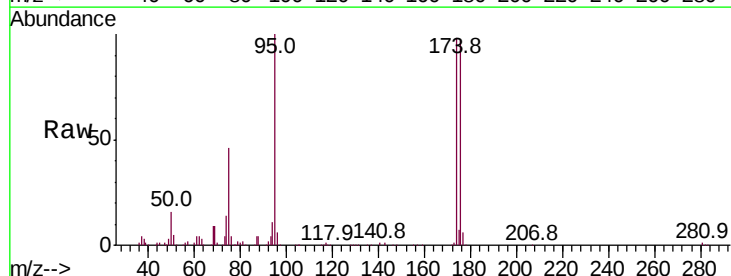
Tgt Ion:173 Resp: 1858

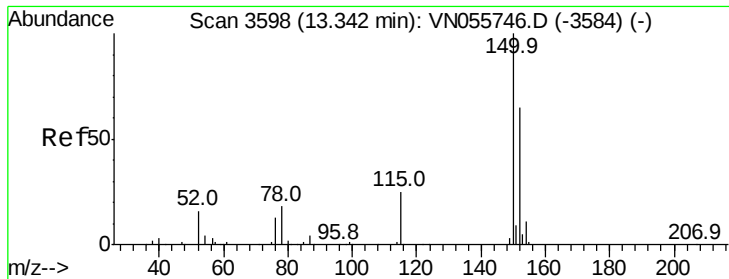
Ion Ratio Lower Upper

173 100

175 780.1 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: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampleId :

FB-20190523

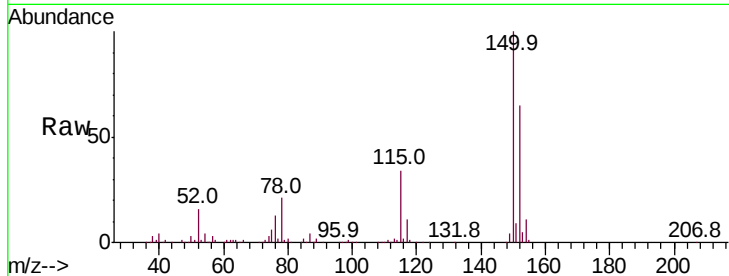
Tot Ion:152 Resp: 201876

Ion Ratio Lower Upper

152 100

115 52.4 27.0 81.0

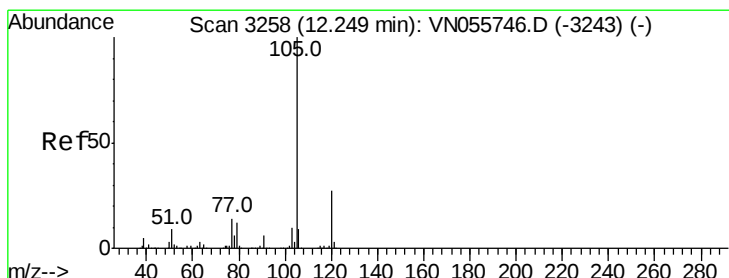
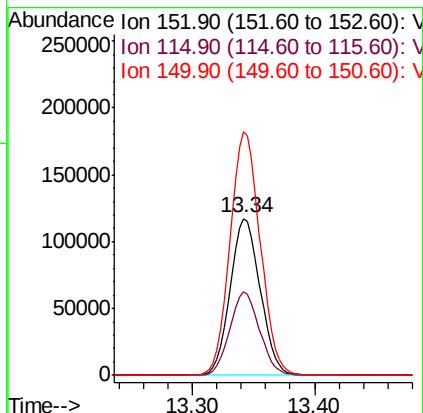
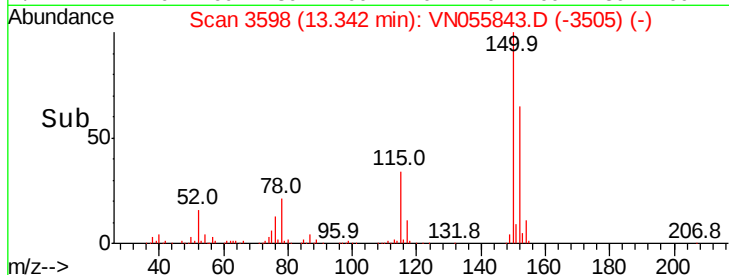
150 155.3 0.0 343.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. 0.15 min

Lab File: VN055843.D

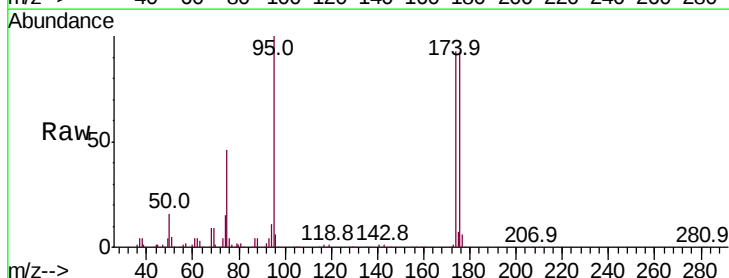
Acq: 28 May 2019 11:10

Tgt Ion:105 Resp: 143

Ion Ratio Lower Upper

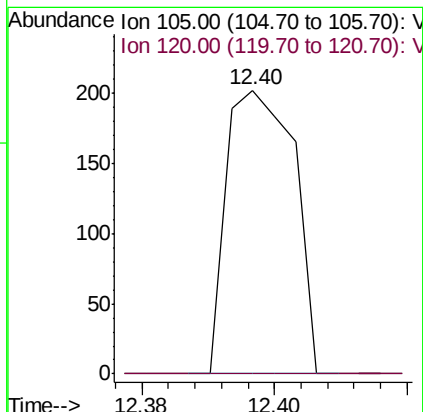
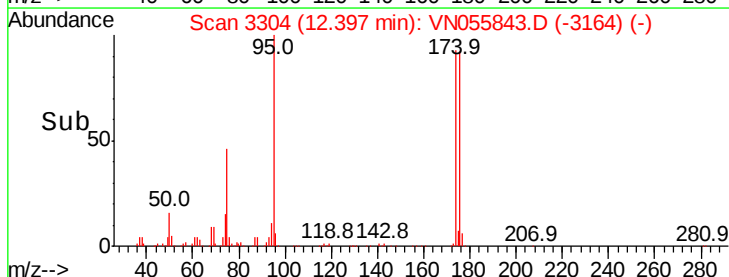
105 100

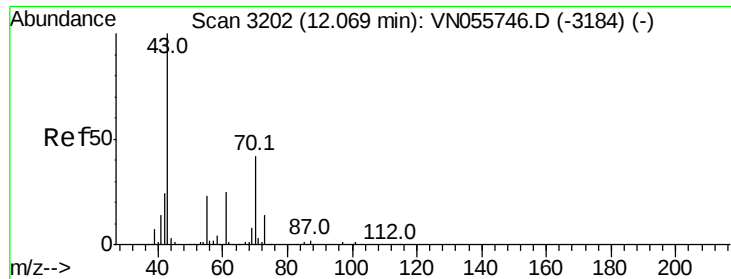
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amyl acetate

Concen: Below Cal

RT: 12.08 min Scan# 3205

Delta R.T. 0.01 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampleId :

FB-20190523

Tot Ion: 43 Resp: 173

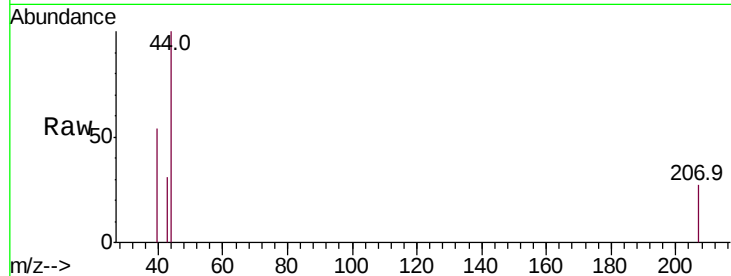
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

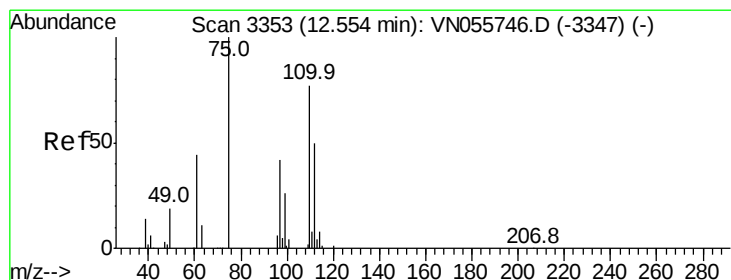
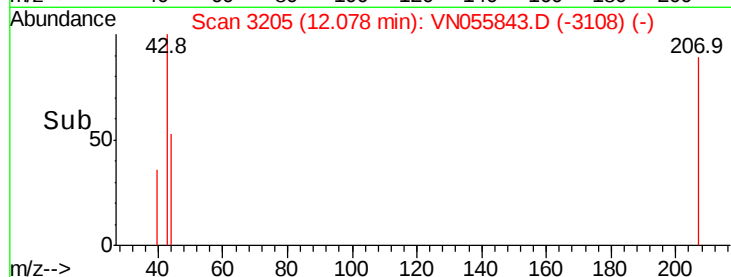
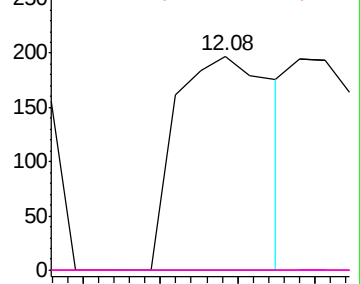


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 31.107 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055843.D

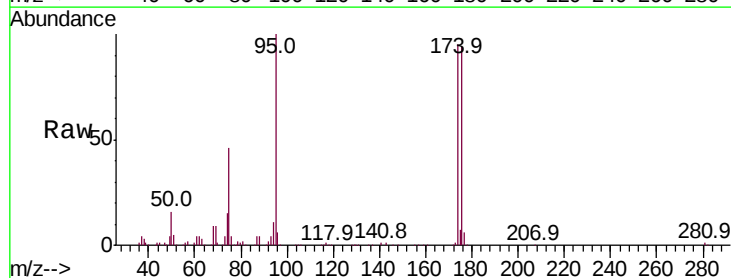
Acq: 28 May 2019 11:10

Tgt Ion: 75 Resp: 112267

Ion Ratio Lower Upper

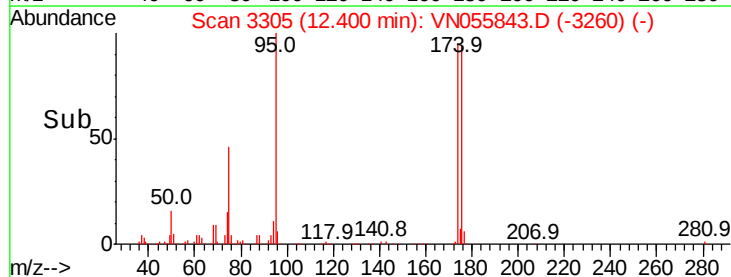
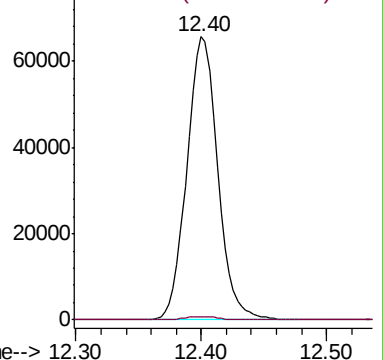
75 100

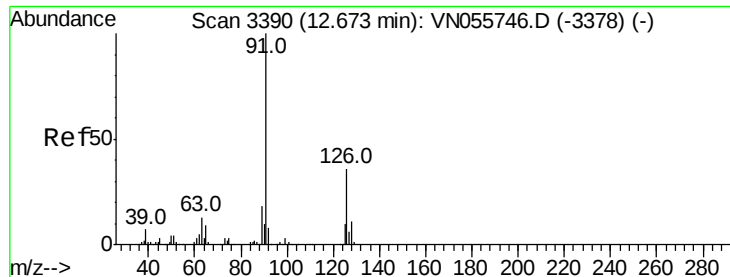
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampled :

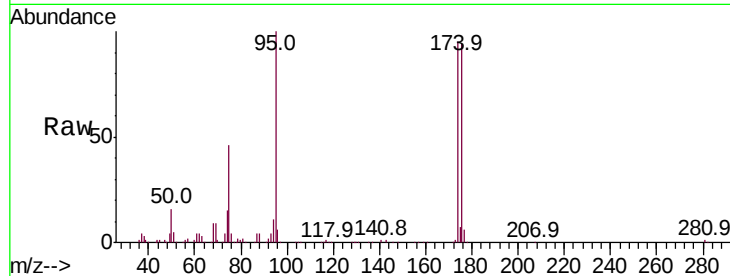
FB-20190523

Tot Ion: 91 Resp: 703

Ion Ratio Lower Upper

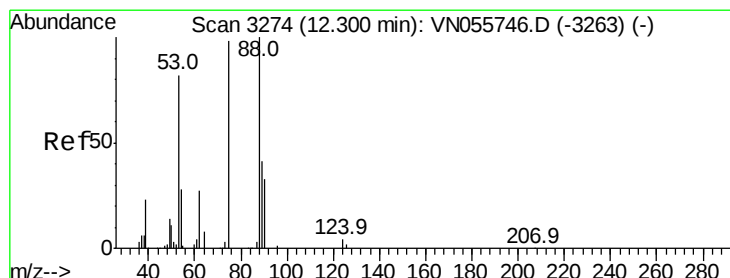
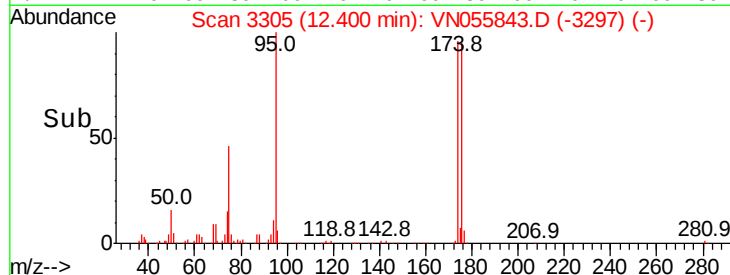
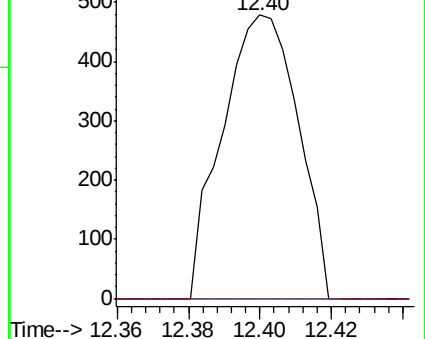
91 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 74.825 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

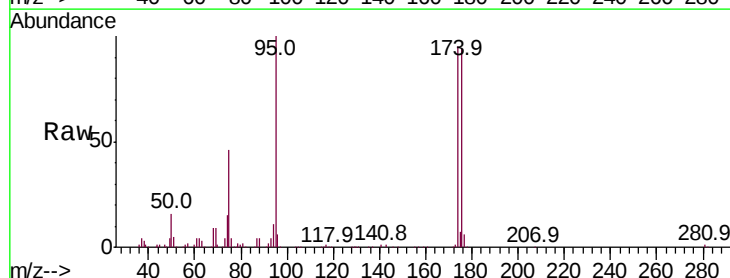
Tgt Ion: 75 Resp: 112267

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

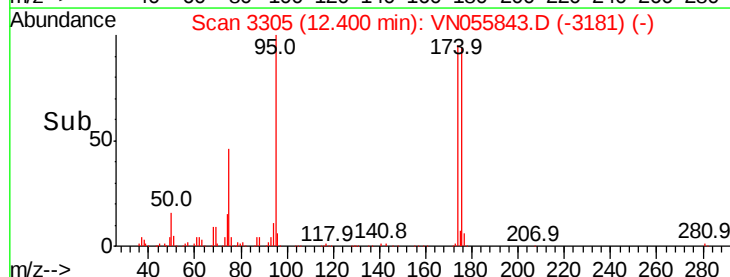
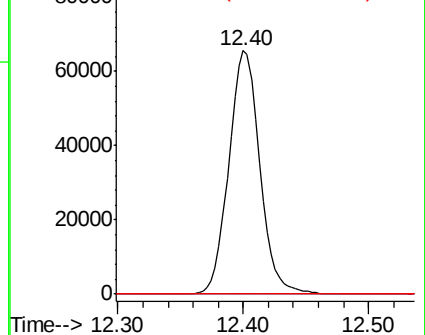
89 0.0 36.9 55.3#

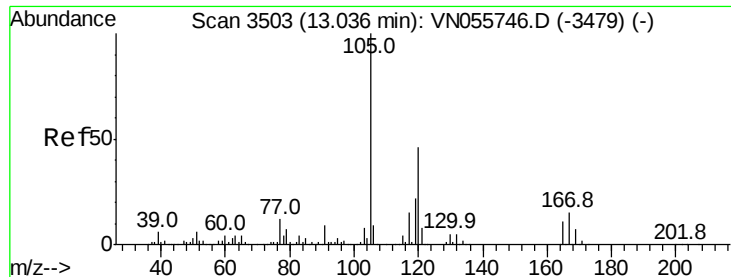


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055843.D

Acq: 28 May 2019 11:10

Instrument :

MSVOA_N

ClientSampleId :

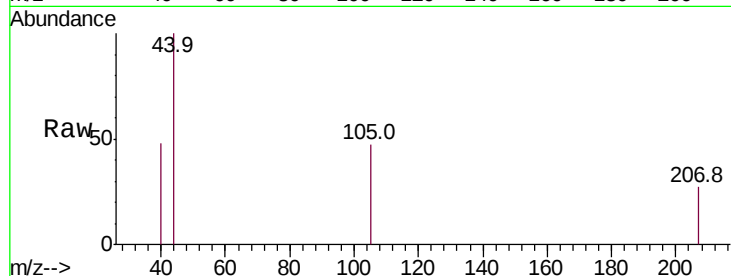
FB-20190523

Tot Ion:105 Resp: 336

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

13.04

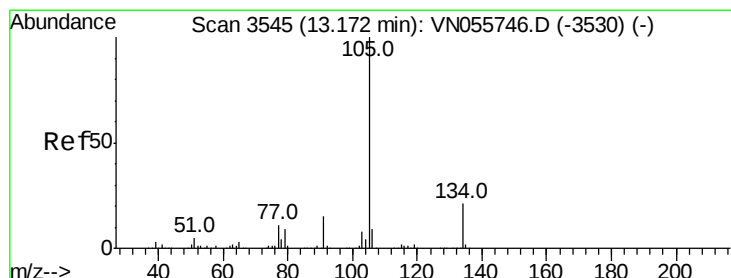
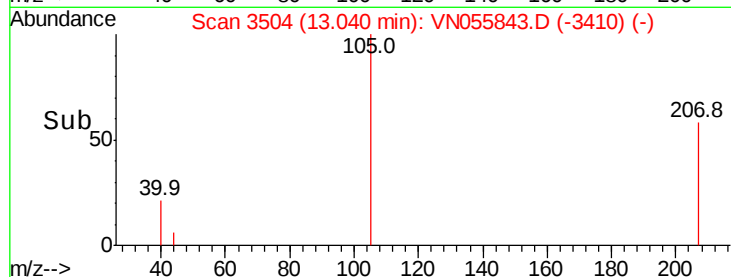
300

200

100

0

Time--> 13.02 13.04 13.06



#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055843.D

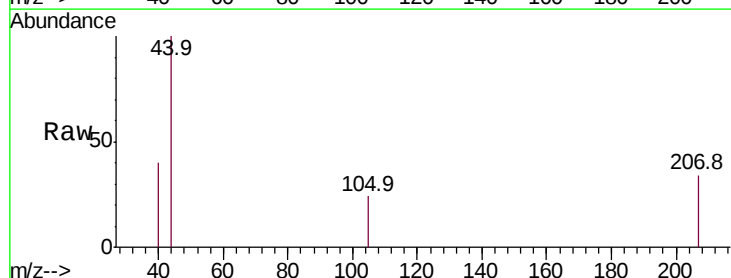
Acq: 28 May 2019 11:10

Tgt Ion:105 Resp: 60

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

13.17

150

100

50

0

Time--> 13.16 13.17 13.18

