

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052419\
 Data File : VN055813.D
 Acq On : 24 May 2019 23:14
 Operator : JC/SP
 Sample : K3037-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-20190522

Quant Time: May 25 04:32:02 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

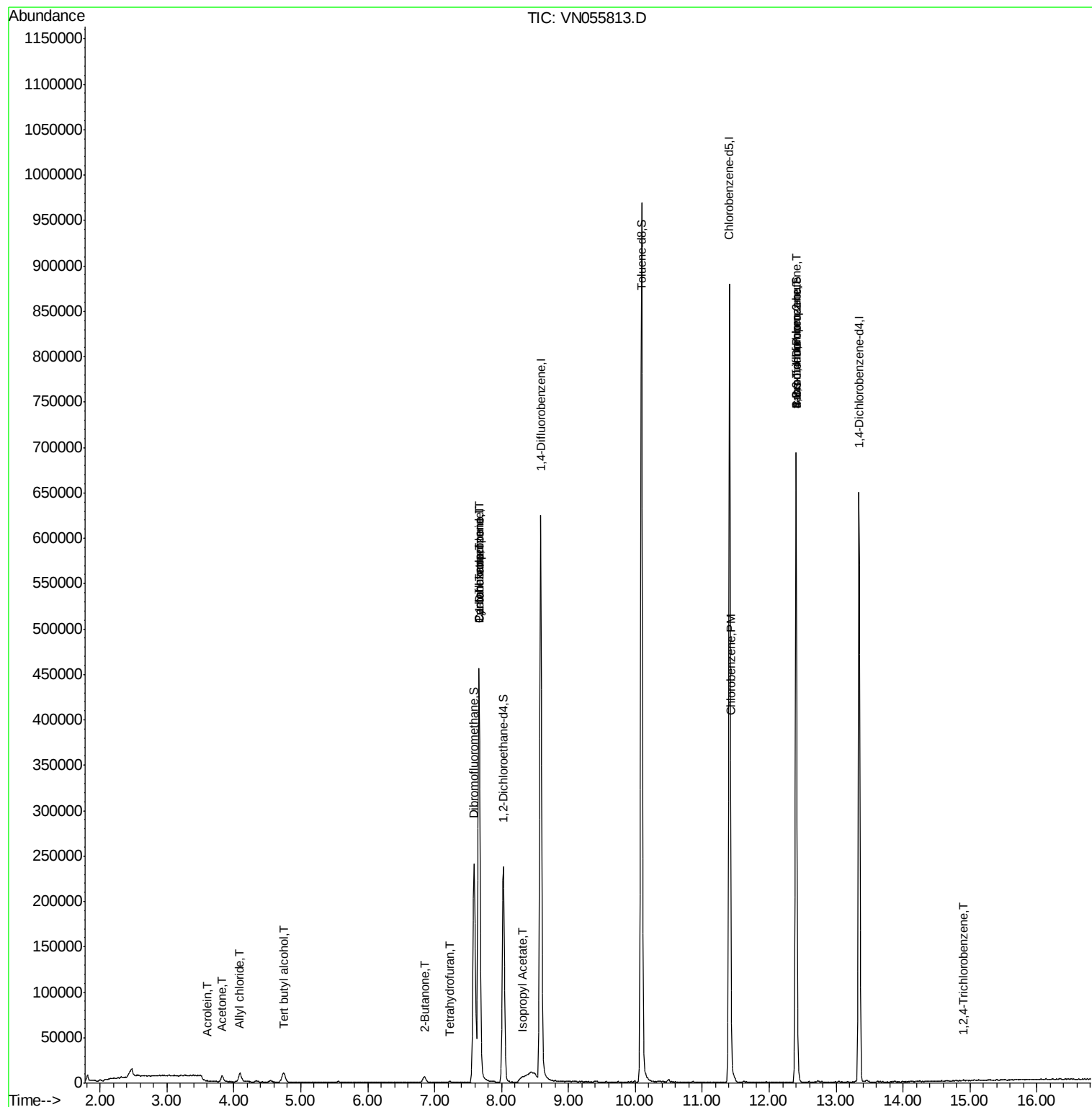
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	437068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	619455	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	562835	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	199310	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	200384	44.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.78%	
35) Dibromofluoromethane	7.59	113	184006	46.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.96%	
50) Toluene-d8	10.09	98	728916	48.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.04%	
62) 4-Bromofluorobenzene	12.40	95	238715	46.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.68%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.74	59	9938	11.523	ug/l #	74
13) Acrolein	3.60	56	158	0.256	ug/l #	67
14) Allyl chloride	4.09	41	1843	0.289	ug/l #	45
16) Acetone	3.82	43	11391	5.741	ug/l	98
18) Methyl Acetate	4.34	43	3024	Below Cal	#	72
25) 2-Butanone	6.85	43	1959	0.707	ug/l #	47
29) Tetrahydrofuran	7.22	42	1032	0.588	ug/l #	58
31) Cyclohexane	7.66	56	6261	0.924	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	25111	4.652	ug/l #	48
38) Carbon Tetrachloride	7.66	117	35393	6.294	ug/l #	15
43) Isopropyl Acetate	8.31	43	6606	0.754	ug/l #	53
65) Chlorobenzene	11.43	112	2767	0.246	ug/l	98
71) Bromoform	12.40	173	1700	0.444	ug/l #	1
73) Isopropylbenzene	12.25	105	340	Below Cal	#	48
74) N-amyl acetate	12.06	43	272	Below Cal	#	43
76) 1,2,3-Trichloropropane	12.40	75	110980	31.150	ug/l #	100
79) 2-Chlorotoluene	12.68	91	99	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.74	105	392	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	110980	74.919	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	917	Below Cal		96
85) sec-Butylbenzene	13.17	105	399	Below Cal	#	55
93) 1,2,4-Trichlorobenzene	14.90	180	400	3.733	ug/l #	76

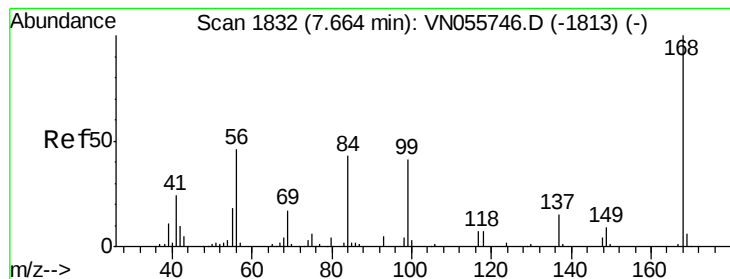
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN052419\
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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: VN055813.D

Acq: 24 May 2019 23:14

Instrument :

MSVOA_N

ClientSampleId :

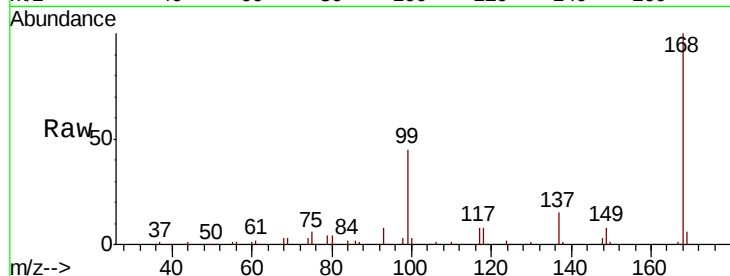
FB-20190522

Tot Ion:168 Resp: 437068

Ion Ratio Lower Upper

168 100

99 44.8 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

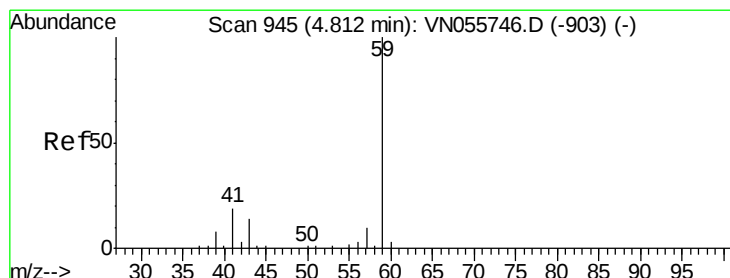
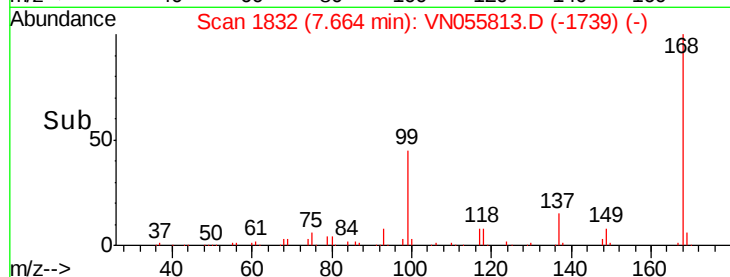
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 11.523 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.07 min

Lab File: VN055813.D

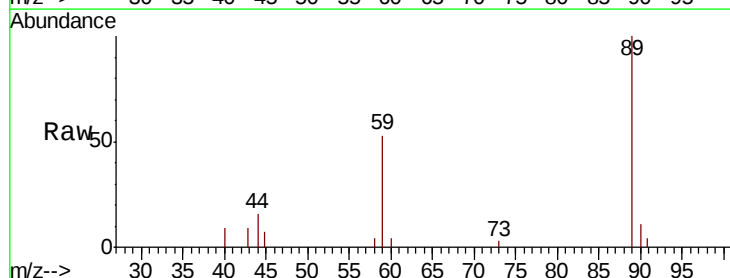
Acq: 24 May 2019 23:14

Tgt Ion: 59 Resp: 9938

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

3000

2500

2000

1500

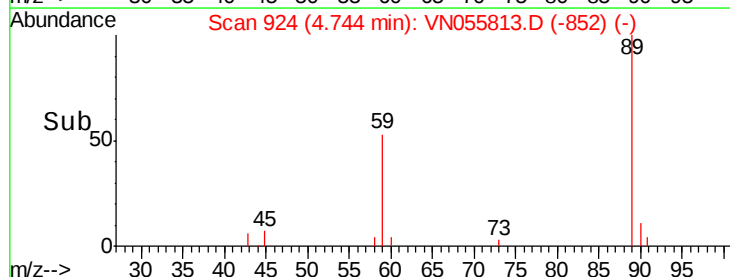
1000

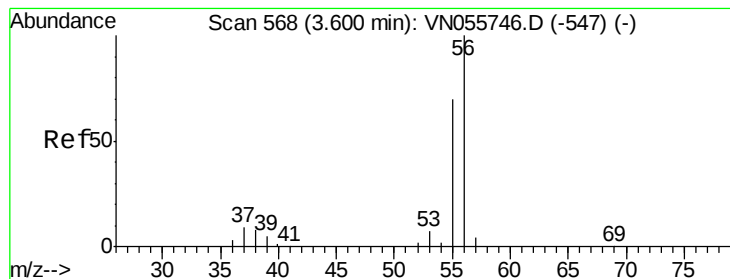
500

0

4.65 4.70 4.75 4.80 4.85

Time-->





#13

Acrolein

Concen: 0.256 ug/l

RT: 3.60 min Scan# 568

Delta R.T. 0.00 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

Instrument :

MSVOA_N

ClientSampleId :

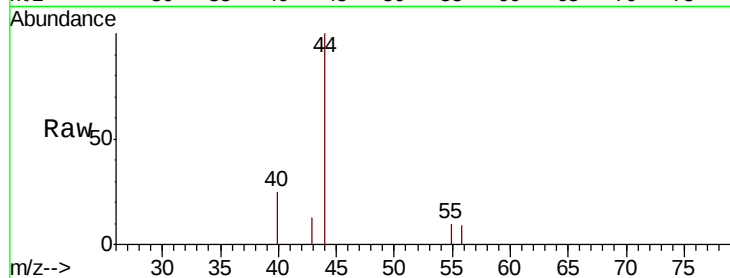
FB-20190522

Tot Ion: 56 Resp: 158

Ion Ratio Lower Upper

56 100

55 42.4 55.4 83.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.60

150

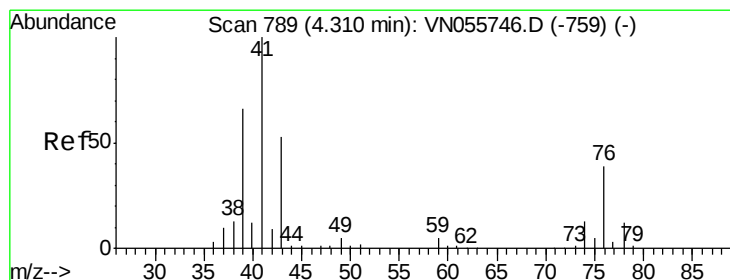
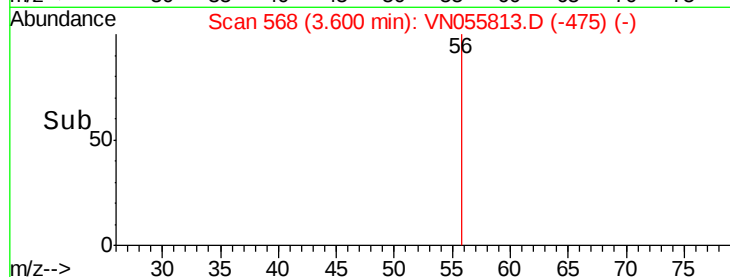
100

50

0

3.58 3.59 3.60 3.61 3.62

Time-->



#14

Allyl chloride

Concen: 0.289 ug/l

RT: 4.09 min Scan# 722

Delta R.T. -0.22 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

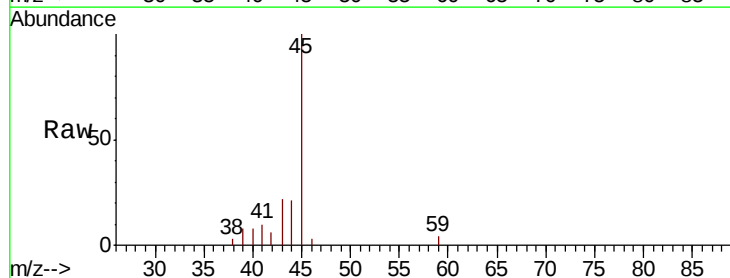
Tgt Ion: 41 Resp: 1843

Ion Ratio Lower Upper

41 100

39 22.4 50.0 75.0#

76 0.0 28.2 42.2#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0

800

600

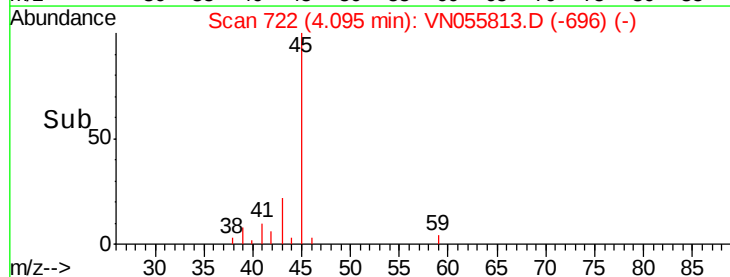
400

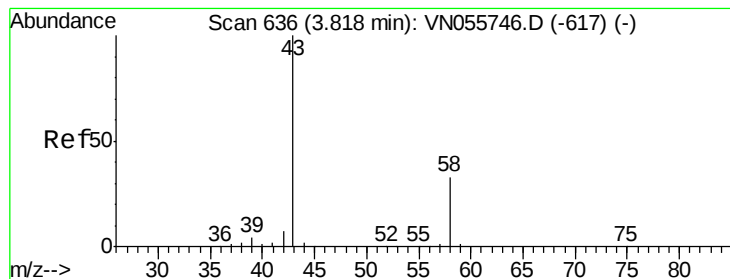
200

0

4.05 4.10 4.15

Time-->





#16

Acetone

Concen: 5.741 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

Instrument :

MSVOA_N

ClientSampled :

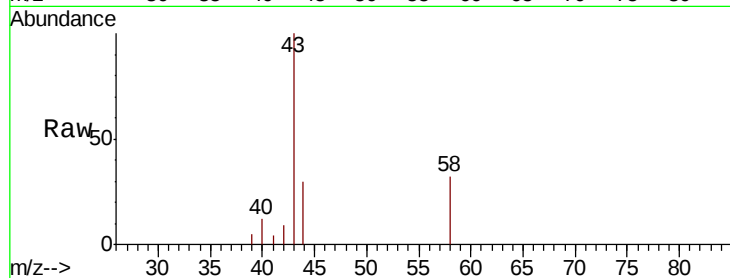
FB-20190522

Tot Ion: 43 Resp: 11391

Ion Ratio Lower Upper

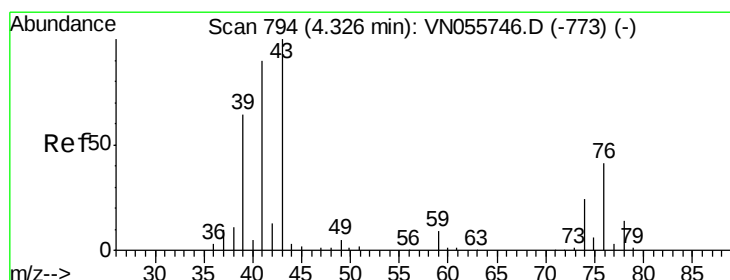
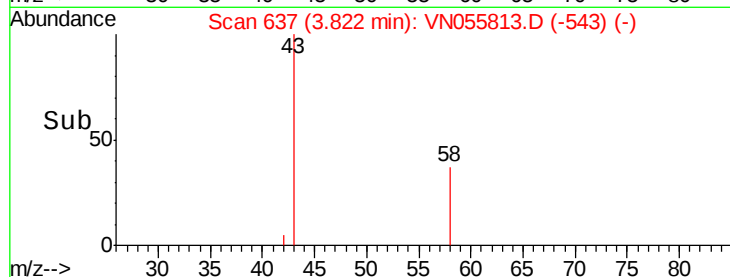
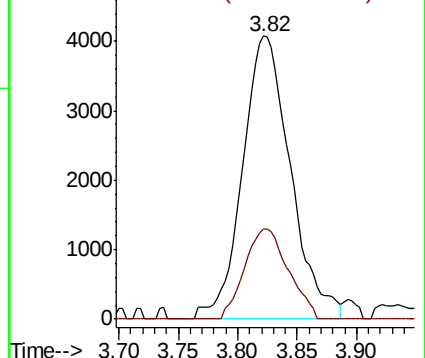
43 100

58 31.9 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: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055813.D

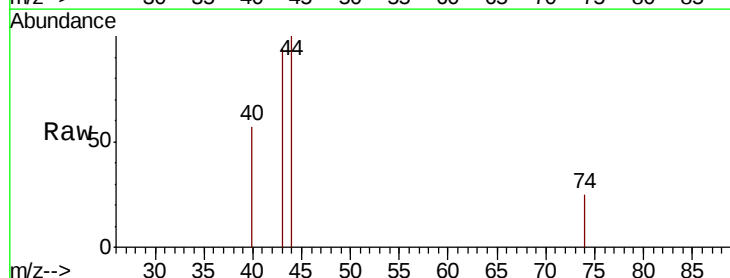
Acq: 24 May 2019 23:14

Tgt Ion: 43 Resp: 3024

Ion Ratio Lower Upper

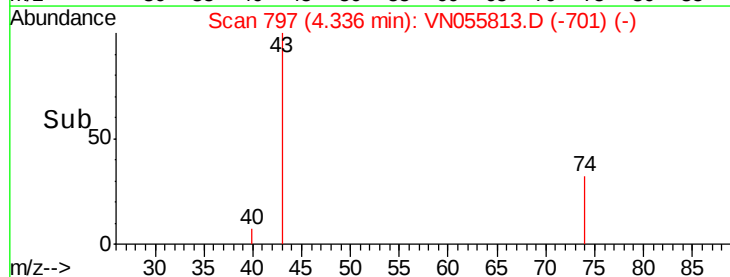
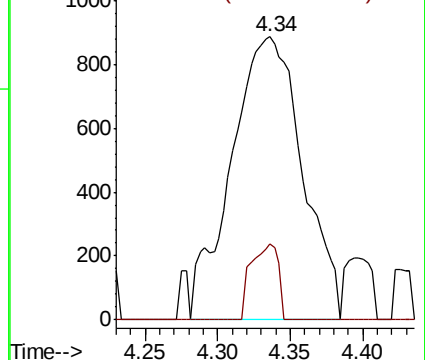
43 100

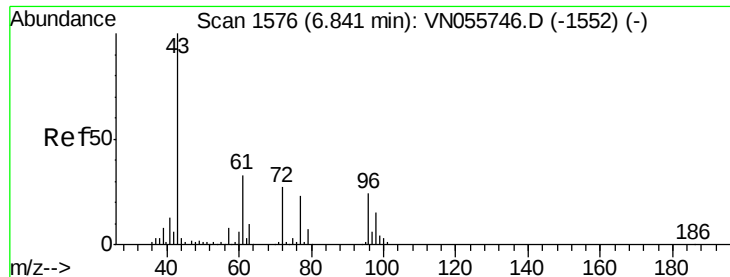
74 10.3 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#25

2-Butanone

Concen: 0.707 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

Instrument :

MSVOA_N

ClientSampled :

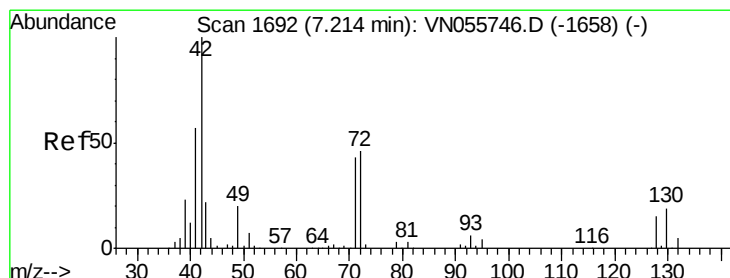
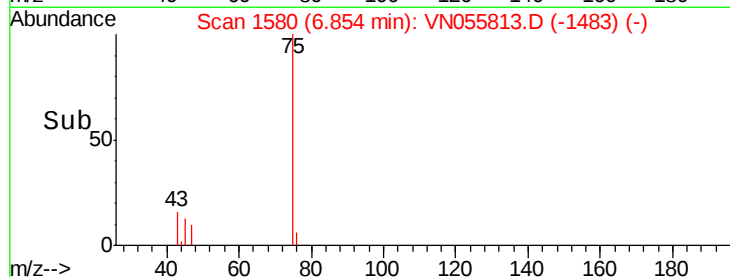
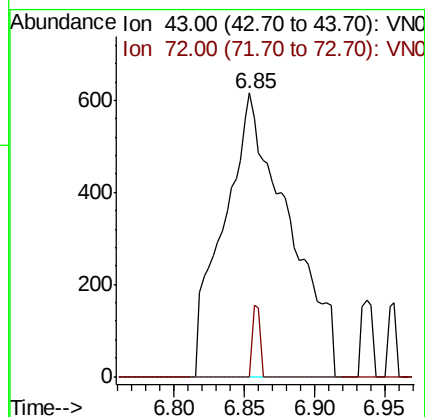
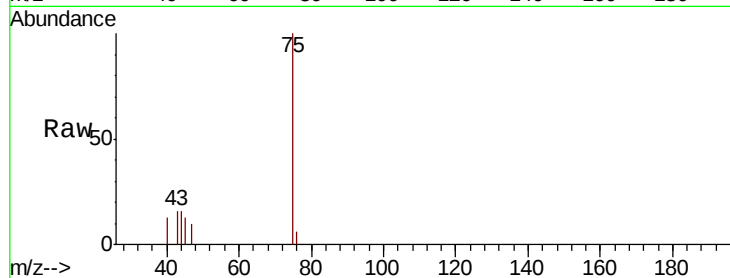
FB-20190522

Tot Ion: 43 Resp: 1959

Ion Ratio Lower Upper

43 100

72 0.0 21.9 32.9#



#29

Tetrahydrofuran

Concen: 0.588 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

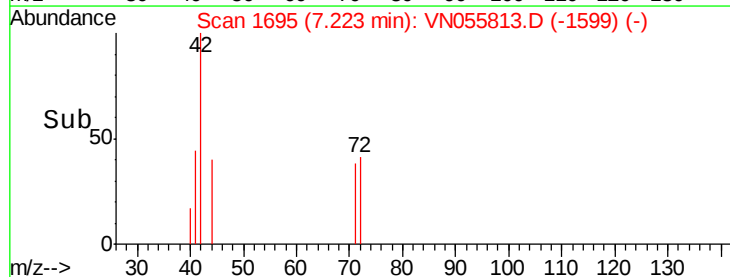
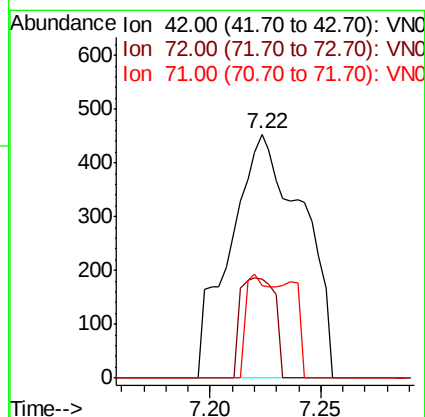
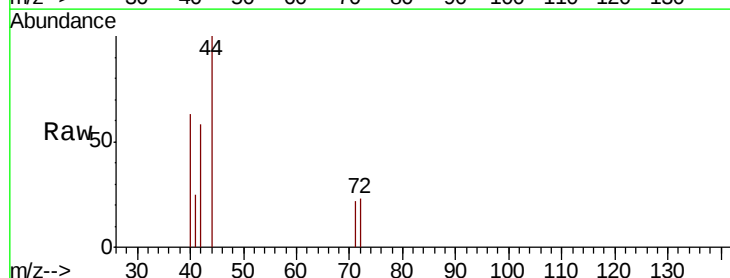
Tgt Ion: 42 Resp: 1032

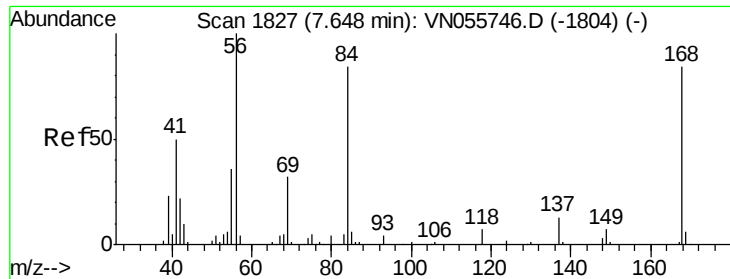
Ion Ratio Lower Upper

42 100

72 19.7 35.9 53.9#

71 13.4 34.0 51.0#

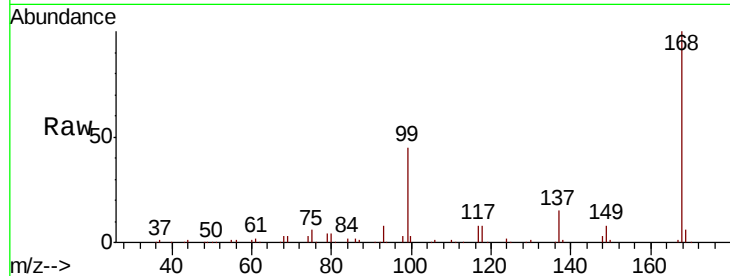




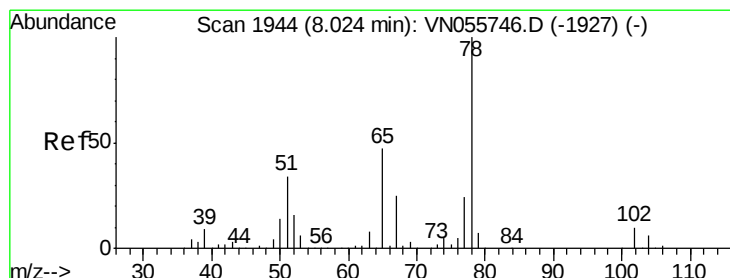
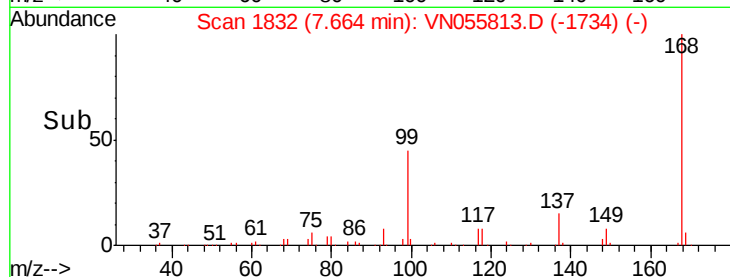
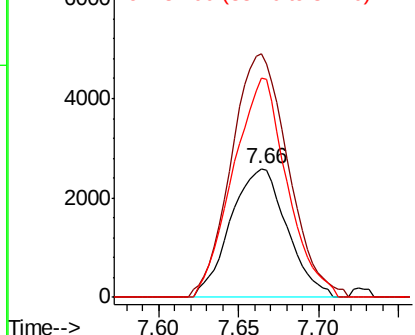
#31
Cyclohexane
Concen: 0.924 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN055813.D
Acq: 24 May 2019 23:14

Instrument :
MSVOA_N
ClientSampleId :
FB-20190522

Tot Ion: 56 Resp: 6261
Ion Ratio Lower Upper
56 100
69 189.0 25.6 38.4#
84 170.7 67.4 101.0#

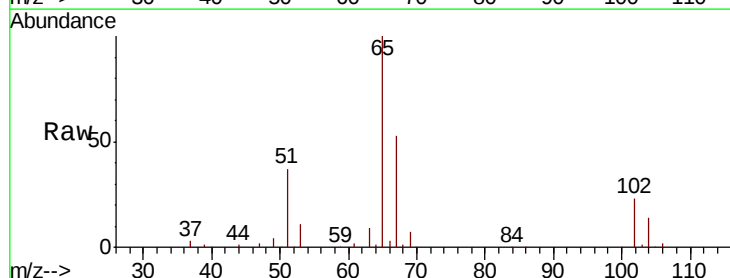


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

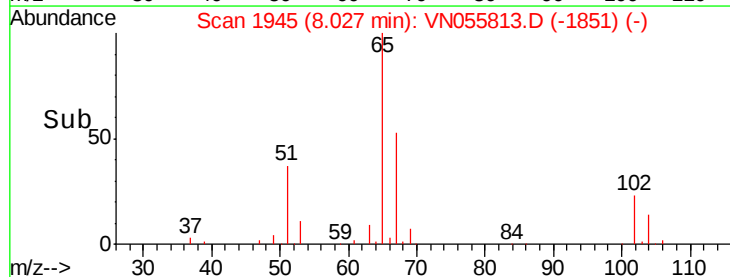
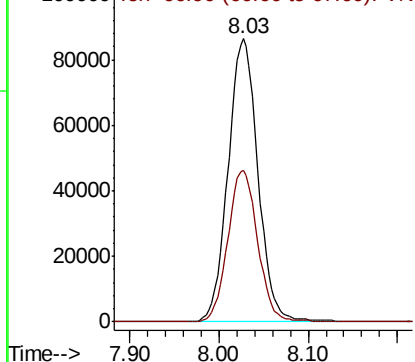


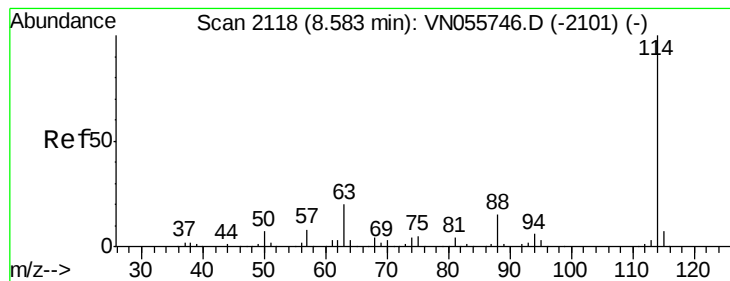
#33
1,2-Dichloroethane-d4
Concen: 44.395 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055813.D
Acq: 24 May 2019 23:14

Tgt Ion: 65 Resp: 200384
Ion Ratio Lower Upper
65 100
67 53.5 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

Instrument :

MSVOA_N

ClientSampleId :

FB-20190522

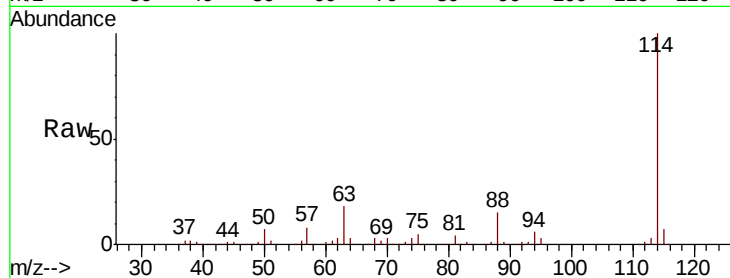
Tot Ion:114 Resp: 619455

Ion Ratio Lower Upper

114 100

63 18.4 0.0 39.2

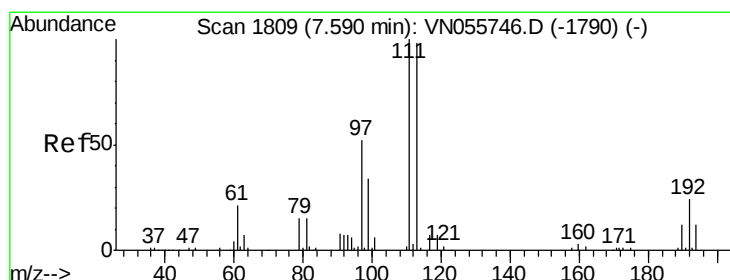
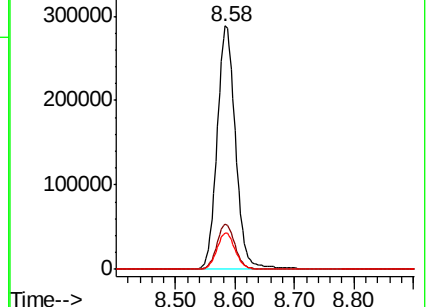
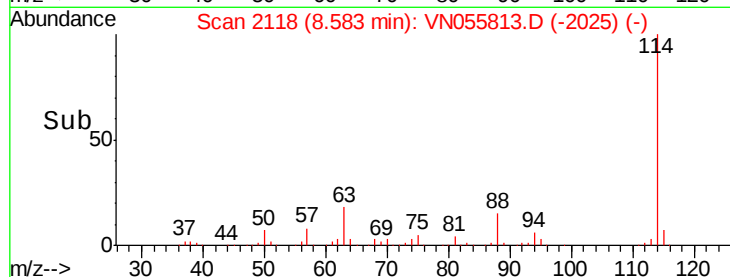
88 15.1 0.0 31.0



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: 46.983 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

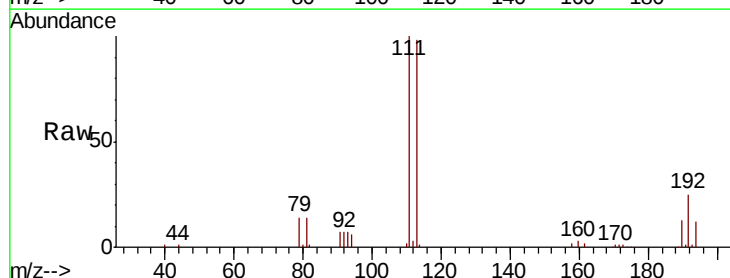
Tgt Ion:113 Resp: 184006

Ion Ratio Lower Upper

113 100

111 101.3 81.9 122.9

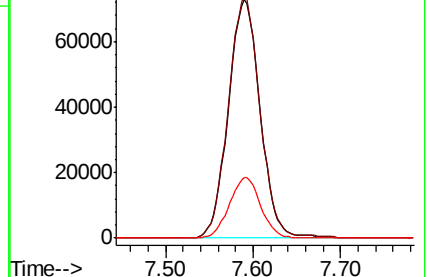
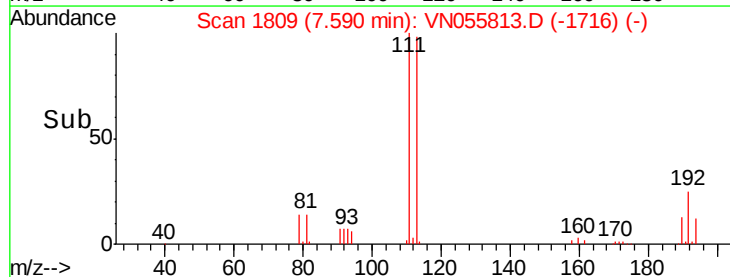
192 24.9 19.5 29.3

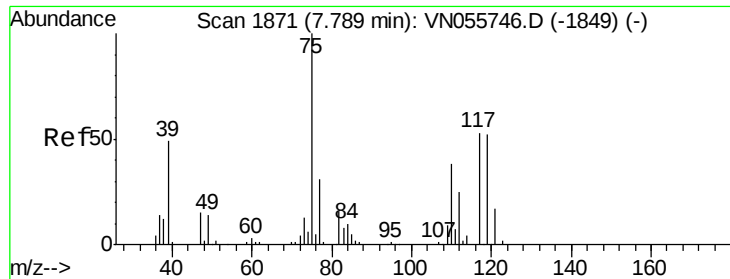


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

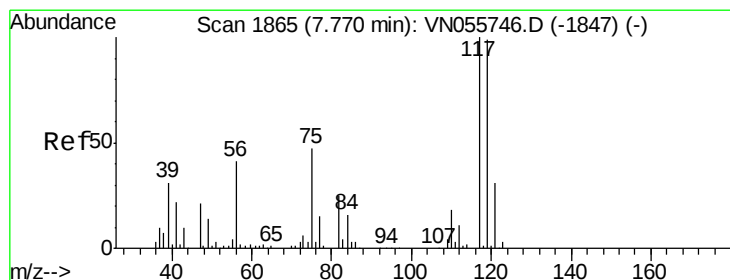
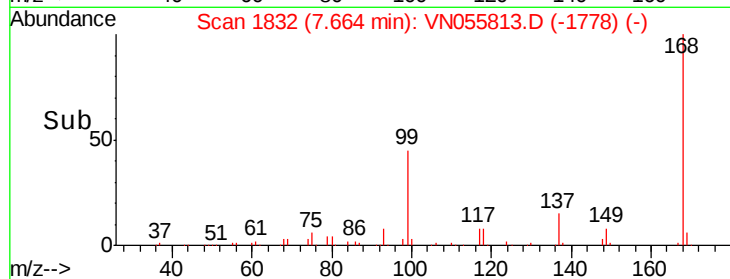
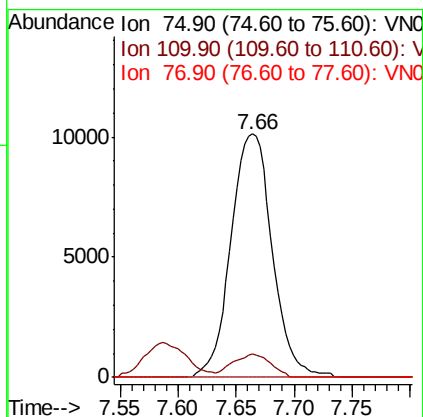
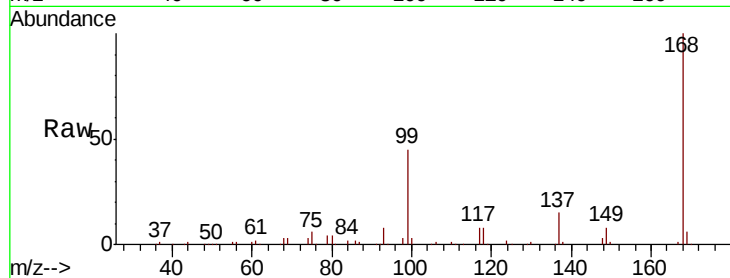




#36
 1,1-Dichloropropene
 Concen: 4.652 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055813.D
 Acq: 24 May 2019 23:14

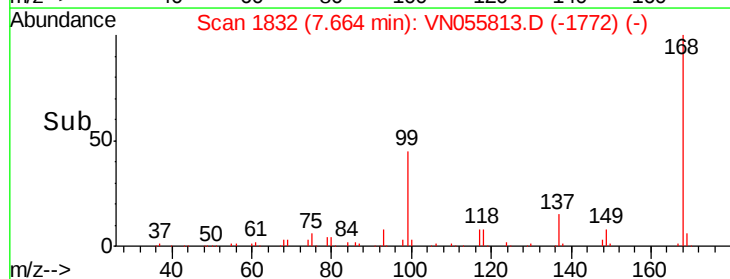
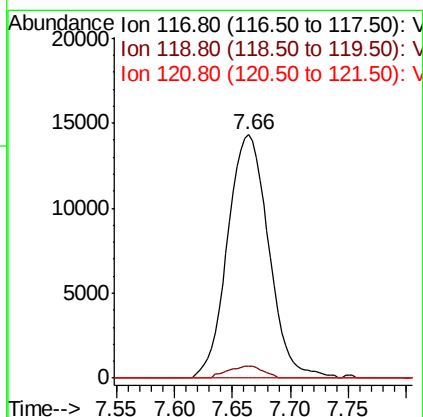
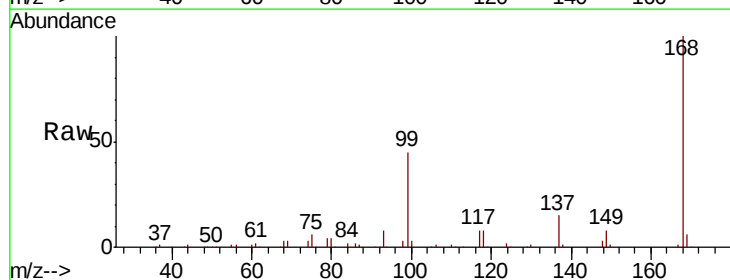
Instrument :
 MSVOA_N
 ClientSampled :
 FB-20190522

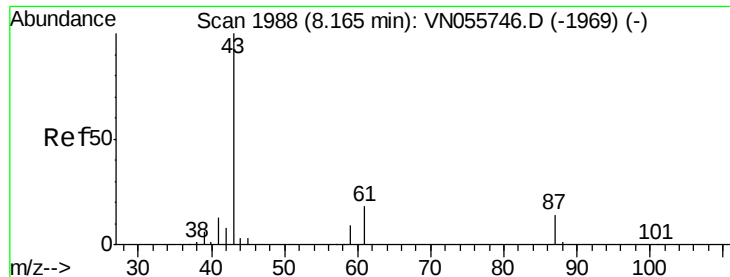
Tot Ion: 75 Resp: 25111
 Ion Ratio Lower Upper
 75 100
 110 8.9 19.0 57.0#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.294 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055813.D
 Acq: 24 May 2019 23:14

Tgt Ion: 117 Resp: 35393
 Ion Ratio Lower Upper
 117 100
 119 4.9 79.0 118.6#
 121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 0.754 ug/l

RT: 8.31 min Scan# 2032

Delta R.T. 0.14 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

Instrument :

MSVOA_N

ClientSampleId :

FB-20190522

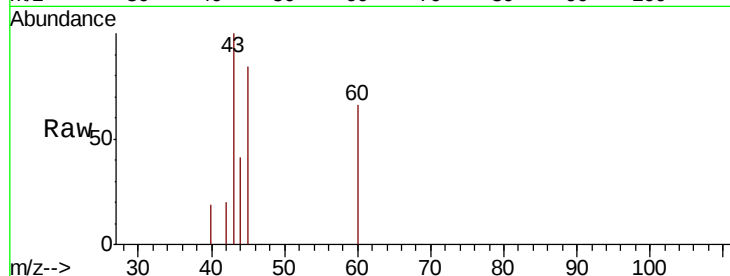
Tot Ion: 43 Resp: 6606

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

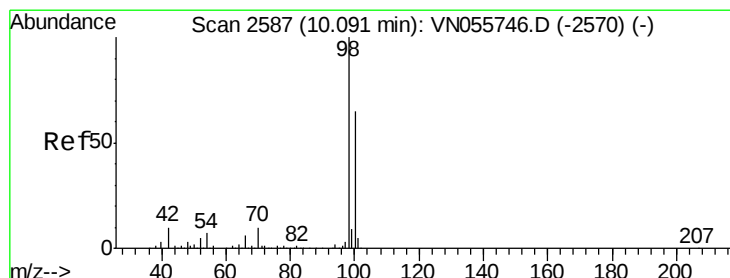
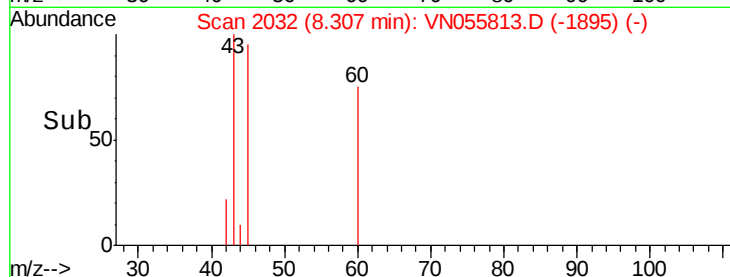
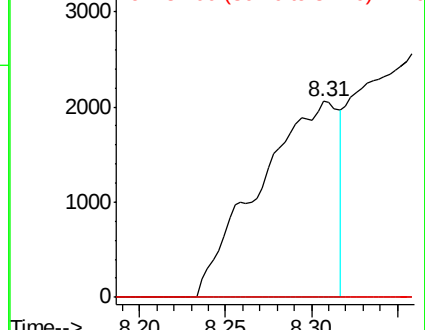
87 0.0 11.4 17.2#



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



#50

Toluene-d8

Concen: 48.520 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055813.D

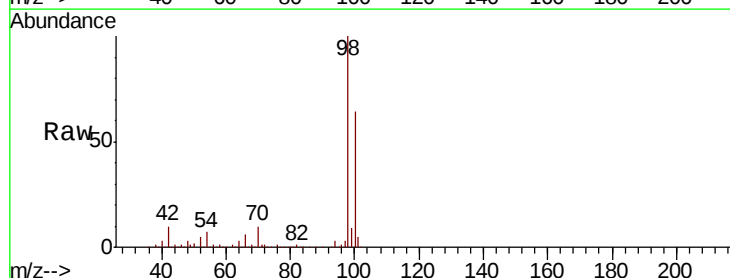
Acq: 24 May 2019 23:14

Tgt Ion: 98 Resp: 728916

Ion Ratio Lower Upper

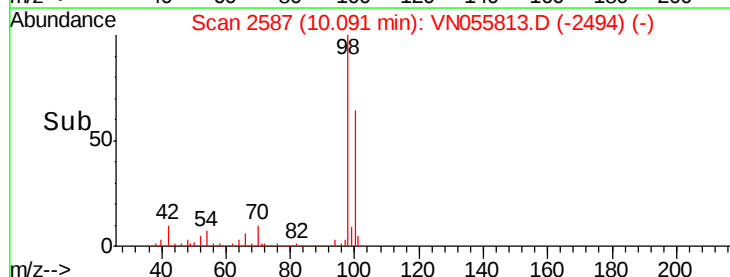
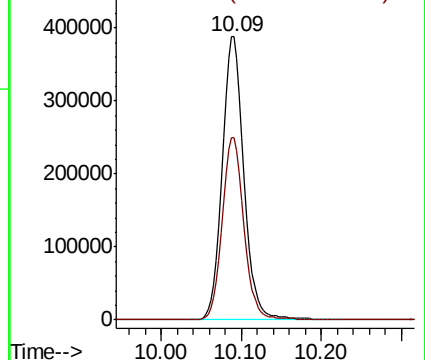
98 100

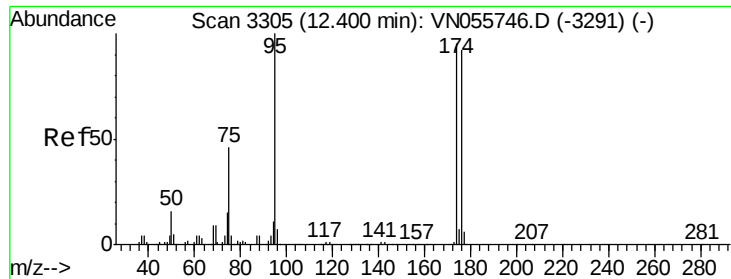
100 64.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

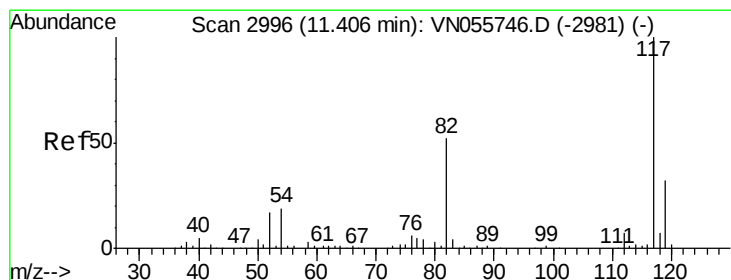
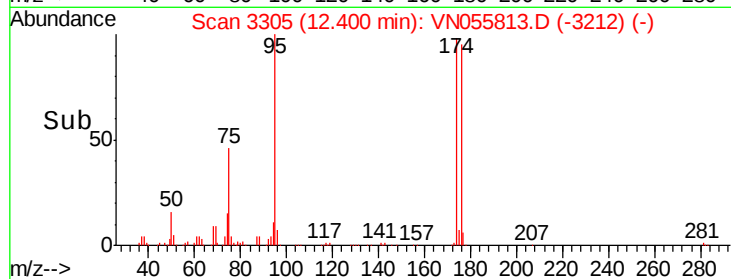
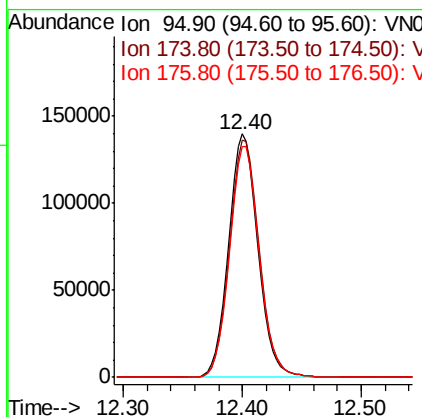
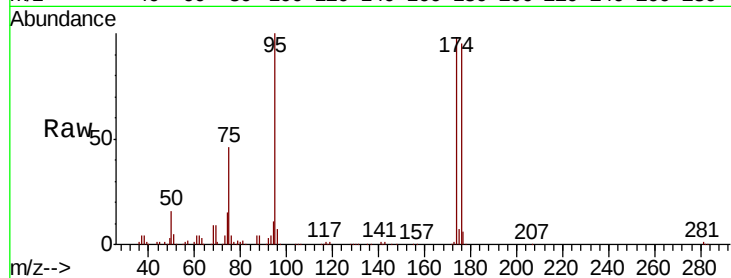




#62
4-Bromofluorobenzene
Concen: 46.342 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055813.D
Acq: 24 May 2019 23:14

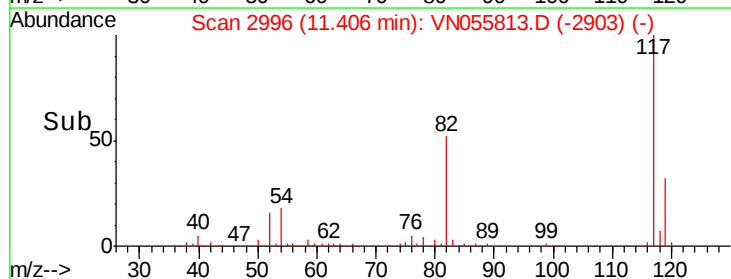
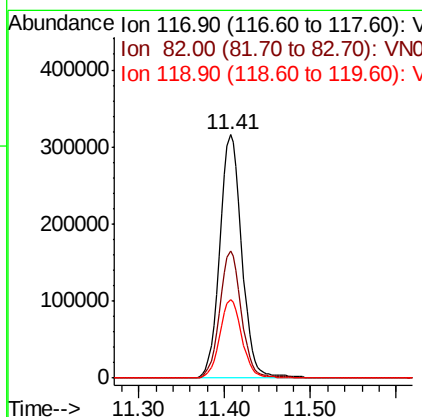
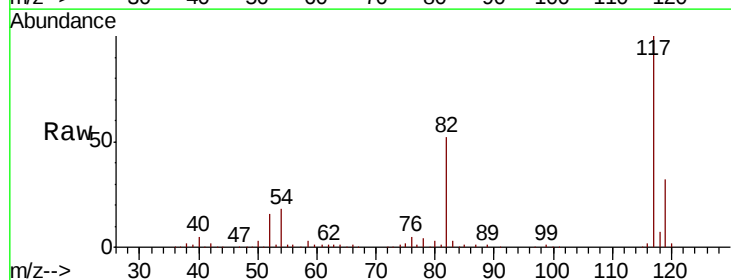
Instrument :
MSVOA_N
ClientSampleId :
FB-20190522

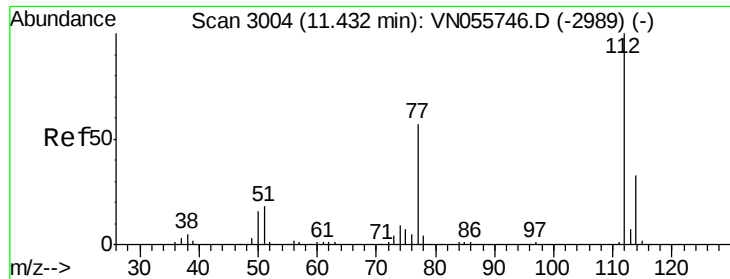
Tot Ion: 95 Resp: 238715
Ion Ratio Lower Upper
95 100
174 99.1 0.0 191.0
176 96.0 0.0 185.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055813.D
Acq: 24 May 2019 23:14

Tgt Ion: 117 Resp: 562835
Ion Ratio Lower Upper
117 100
82 52.2 41.8 62.8
119 32.2 25.4 38.0

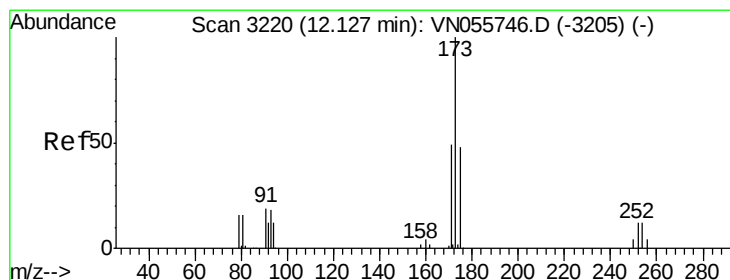
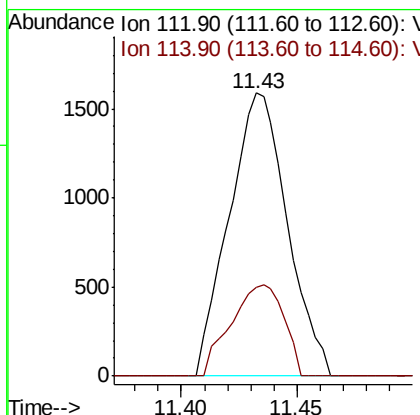
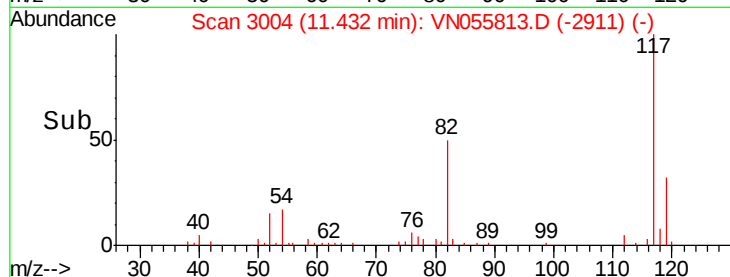
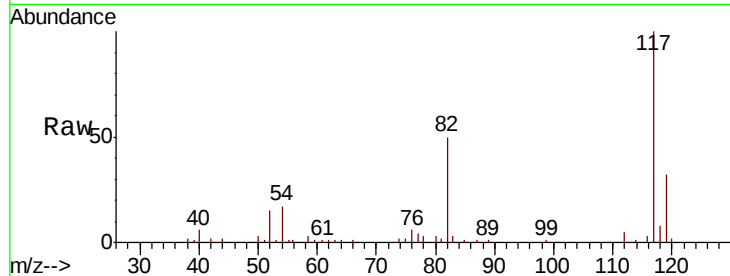




#65
Chlorobenzene
Concen: 0.246 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055813.D
Acq: 24 May 2019 23:14

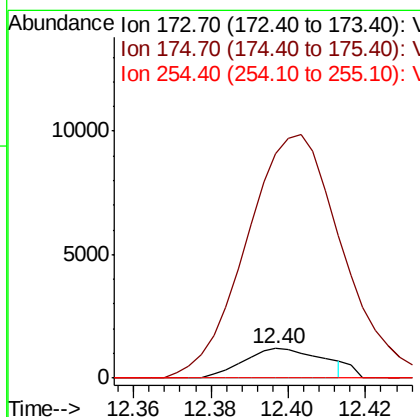
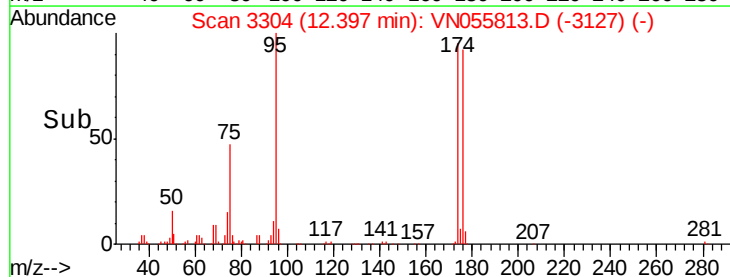
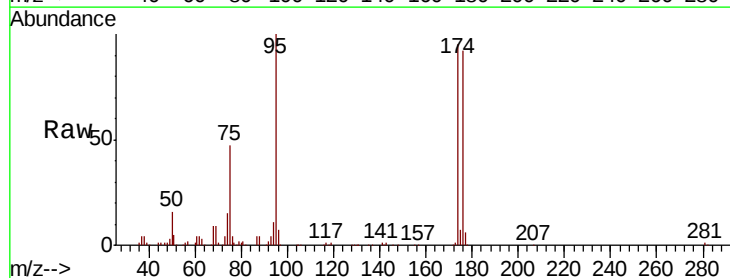
Instrument :
MSVOA_N
ClientSampleId :
FB-20190522

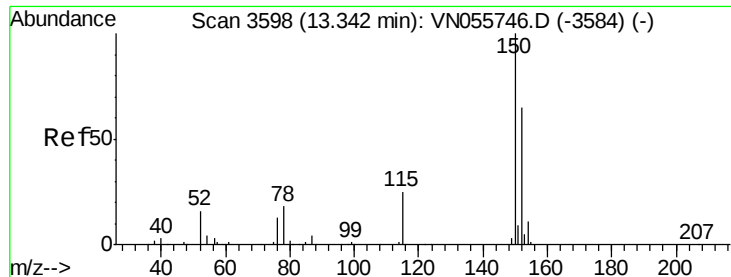
Tot Ion:112 Resp: 2767
Ion Ratio Lower Upper
112 100
114 31.4 26.2 39.4



#71
Bromoform
Concen: 0.444 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN055813.D
Acq: 24 May 2019 23:14

Tgt Ion:173 Resp: 1700
Ion Ratio Lower Upper
173 100
175 863.5 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: VN055813.D

Acq: 24 May 2019 23:14

Instrument :

MSVOA_N

ClientSampled :

FB-20190522

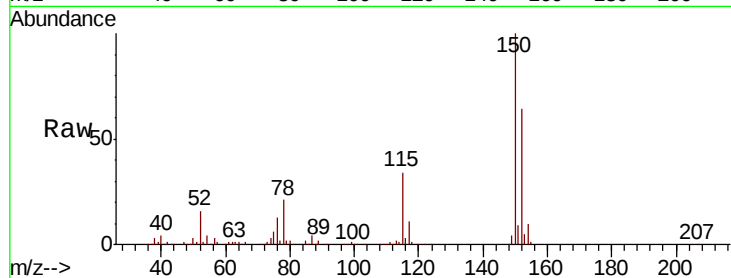
Tot Ion:152 Resp: 199310

Ion Ratio Lower Upper

152 100

115 52.7 27.0 81.0

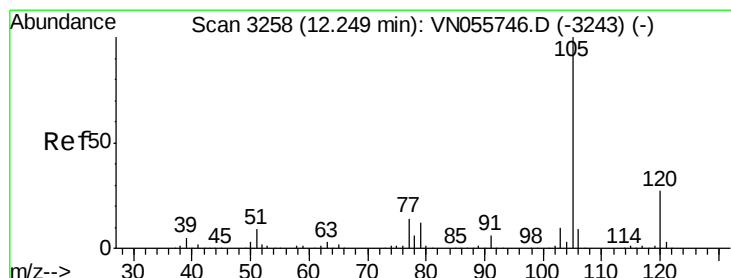
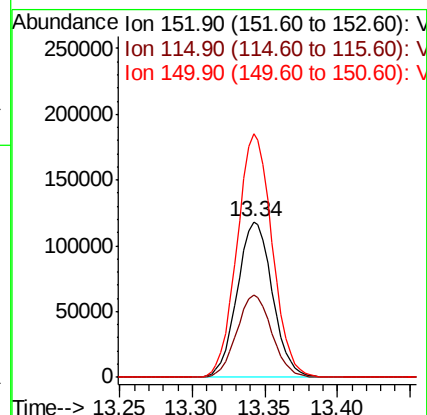
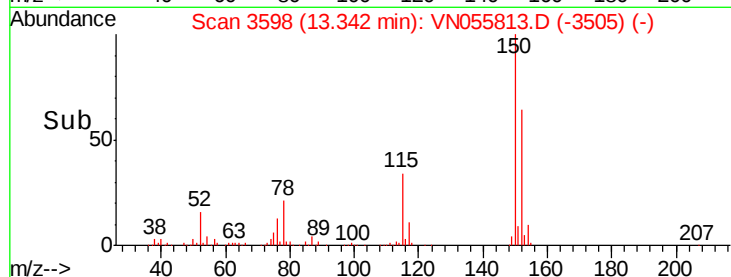
150 156.4 0.0 343.2



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: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055813.D

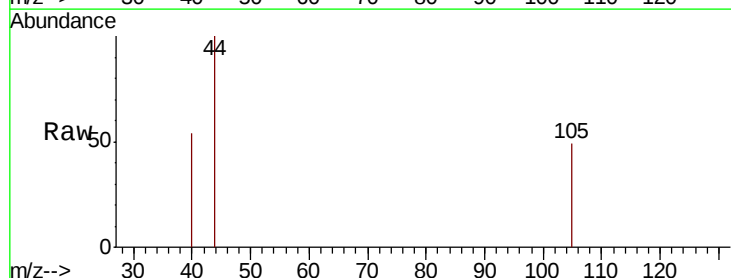
Acq: 24 May 2019 23:14

Tgt Ion:105 Resp: 340

Ion Ratio Lower Upper

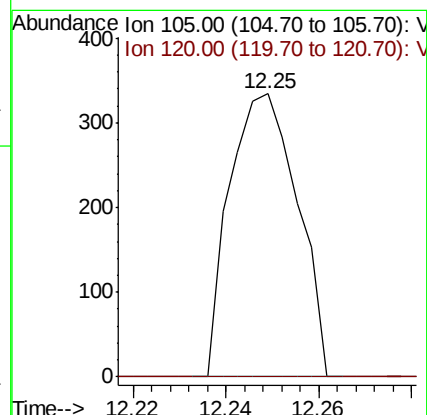
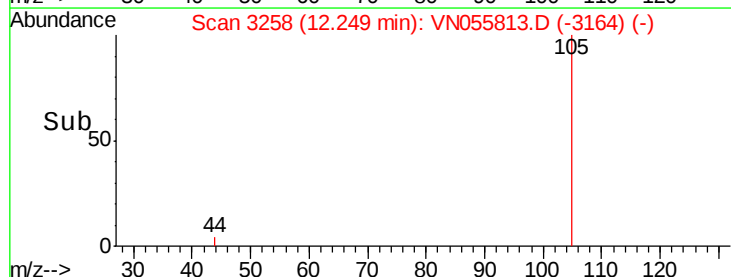
105 100

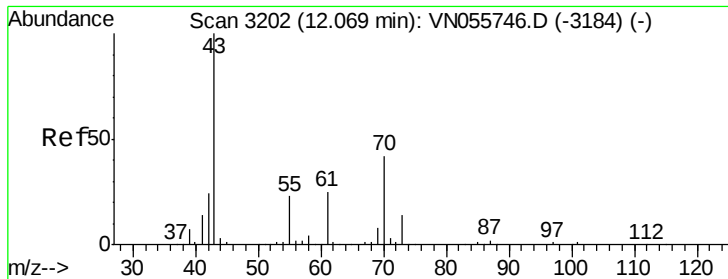
120 0.0 13.6 40.7#



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: 12.06 min Scan# 3198

Delta R.T. -0.01 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

Instrument :

MSVOA_N

ClientSampled :

FB-20190522

Tot Ion: 43 Resp: 272

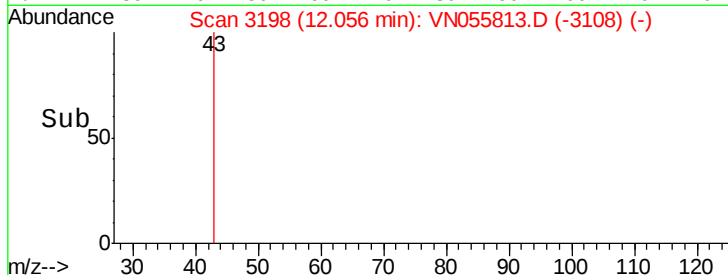
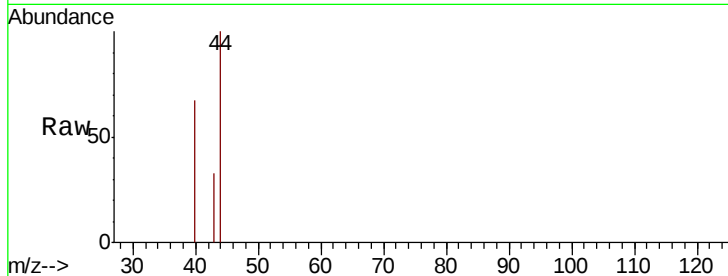
Ion Ratio Lower Upper

43 100

70 0.0 34.0 51.0#

55 0.0 18.6 28.0#

61 0.0 20.0 30.0#

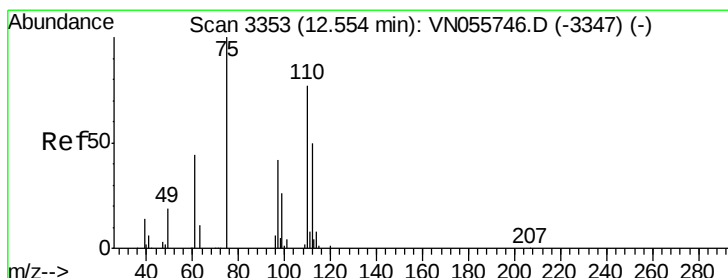
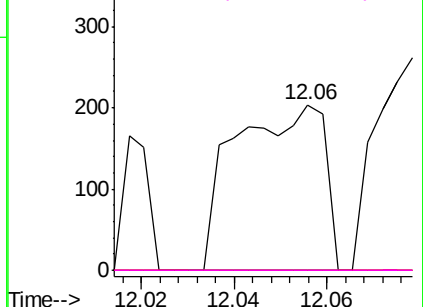


Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 31.150 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055813.D

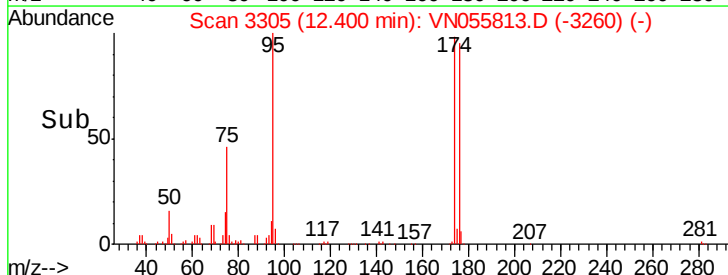
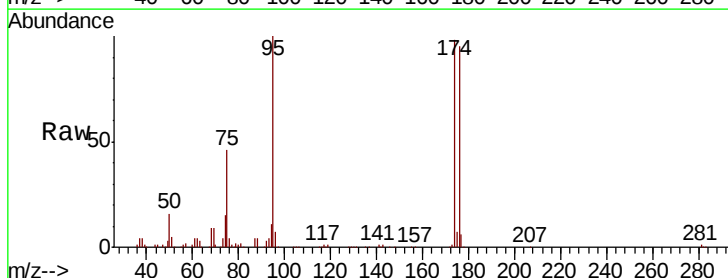
Acq: 24 May 2019 23:14

Tgt Ion: 75 Resp: 110980

Ion Ratio Lower Upper

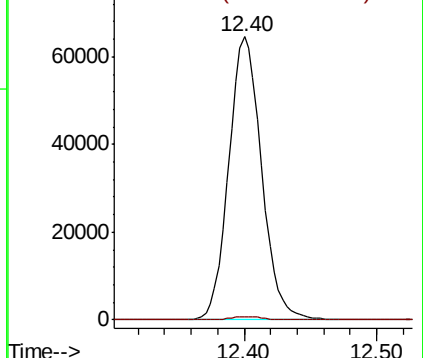
75 100

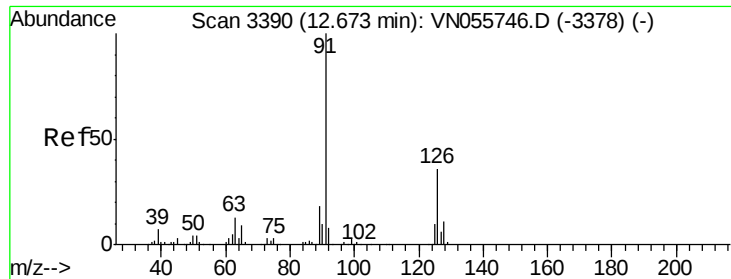
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

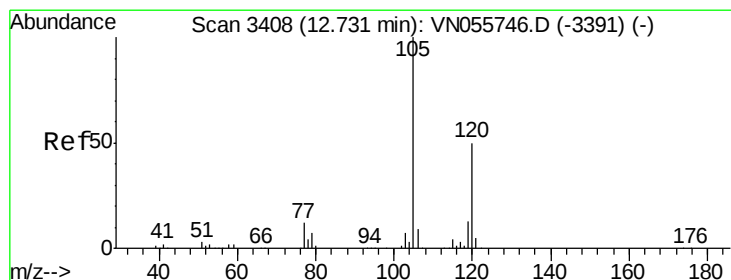
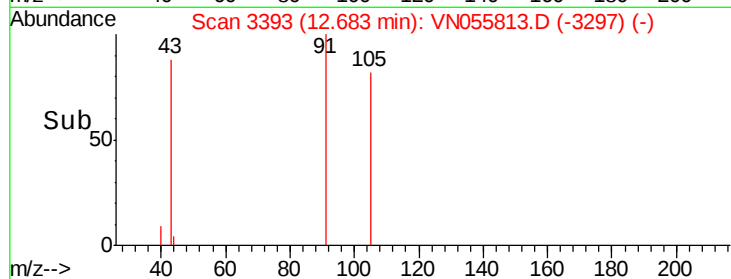
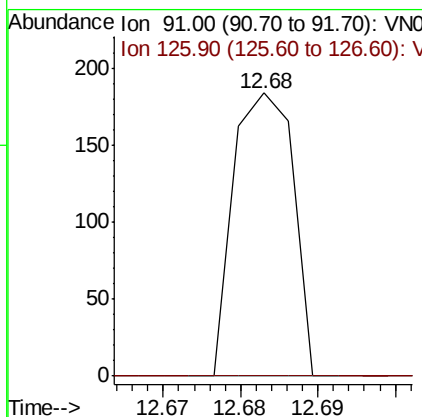
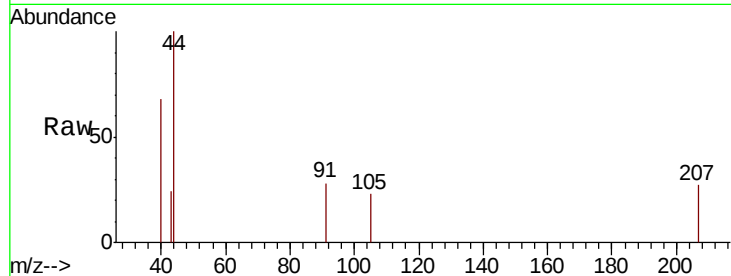




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.68 min Scan# 3393
 Delta R.T. 0.01 min
 Lab File: VN055813.D
 Acq: 24 May 2019 23:14

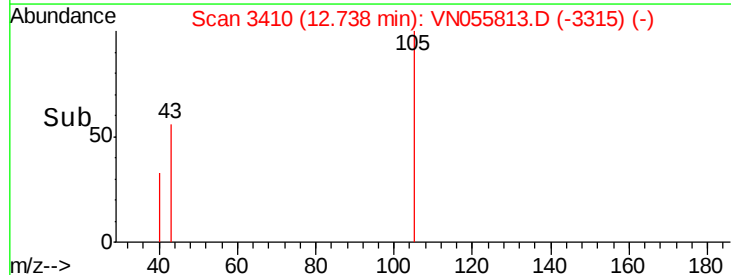
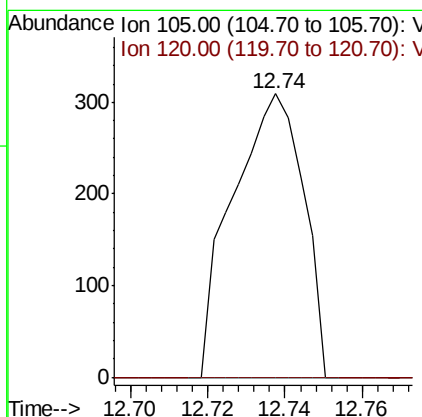
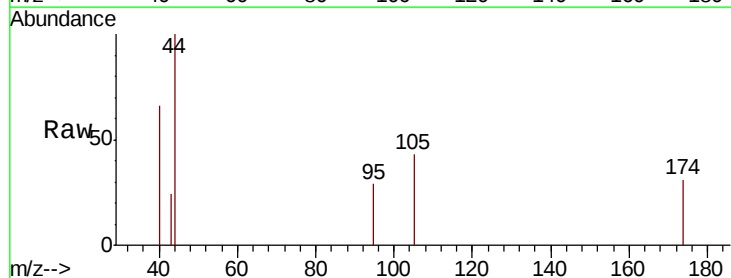
Instrument :
 MSVOA_N
 ClientSampled :
 FB-20190522

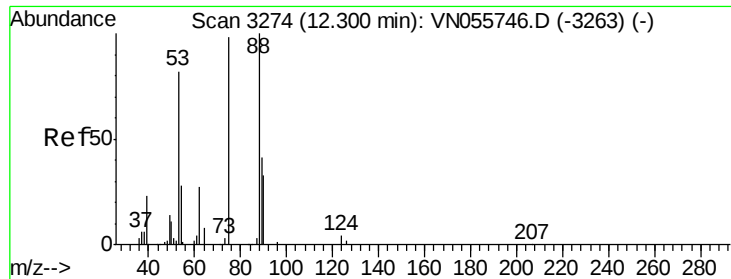
Tot Ion: 91 Resp: 99
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.4#



#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.01 min
 Lab File: VN055813.D
 Acq: 24 May 2019 23:14

Tgt Ion: 105 Resp: 392
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.7 74.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 74.919 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

Instrument :

MSVOA_N

ClientSampleId :

FB-20190522

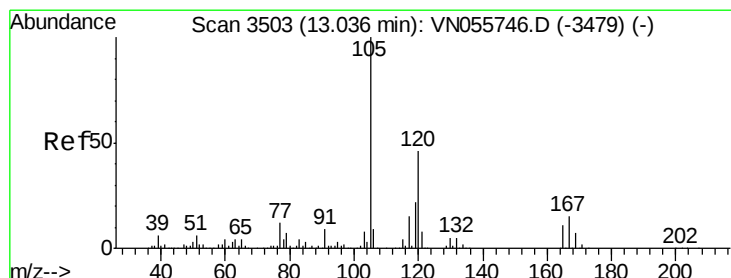
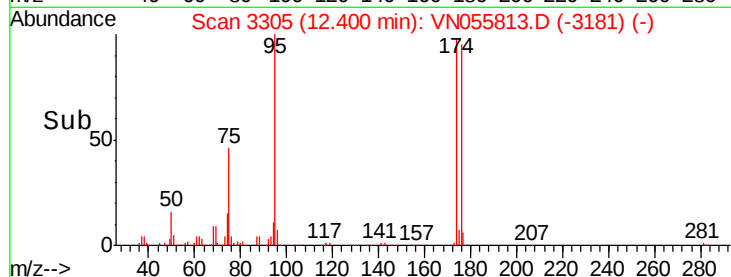
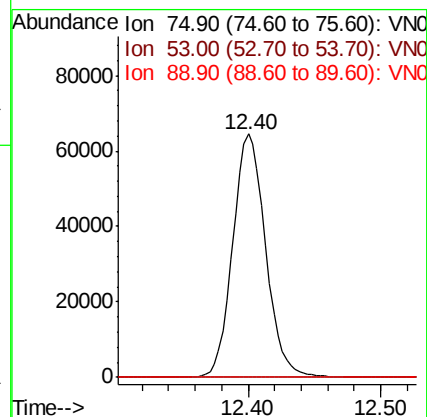
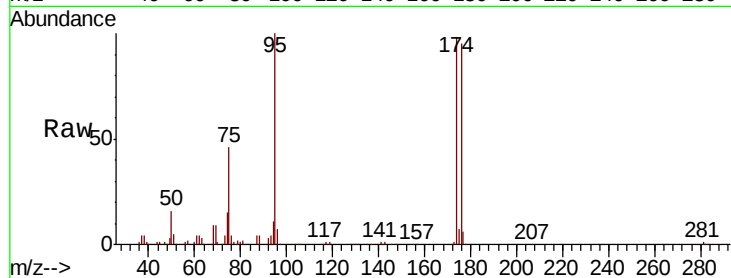
Tot Ion: 75 Resp: 110980

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: VN055813.D

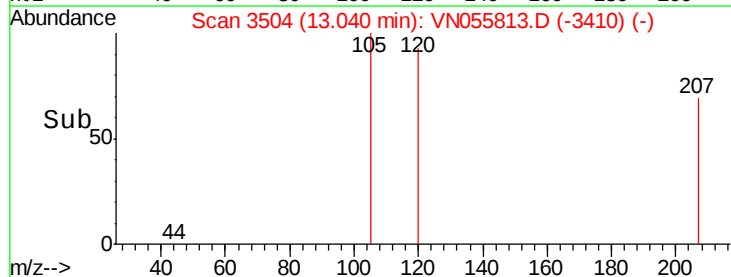
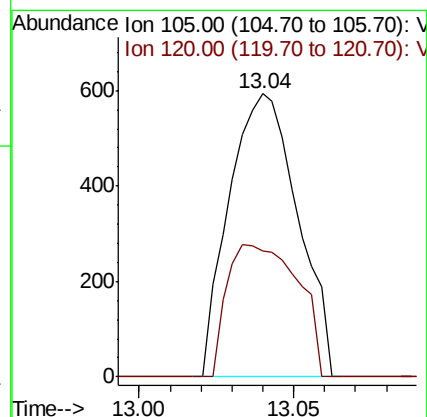
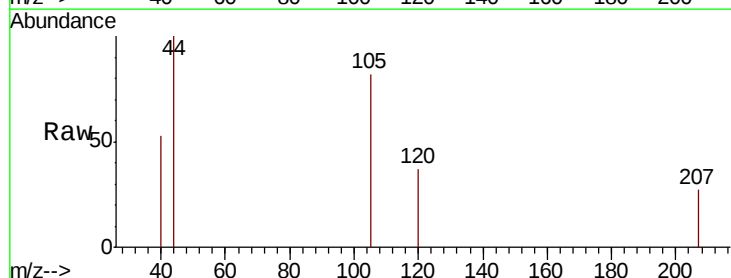
Acq: 24 May 2019 23:14

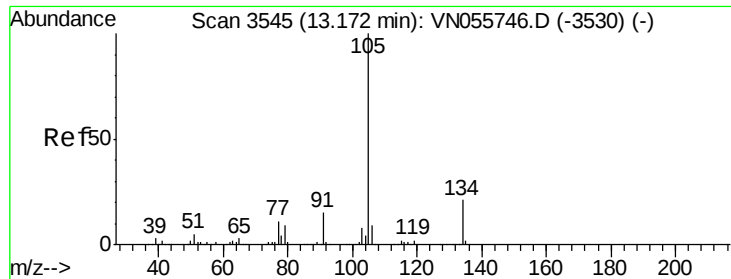
Tgt Ion: 105 Resp: 917

Ion Ratio Lower Upper

105 100

120 48.4 23.0 69.0





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

Instrument :

MSVOA_N

ClientSampleId :

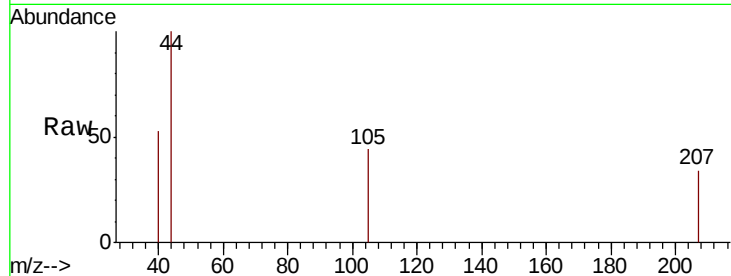
FB-20190522

Tot Ion:105 Resp: 399

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

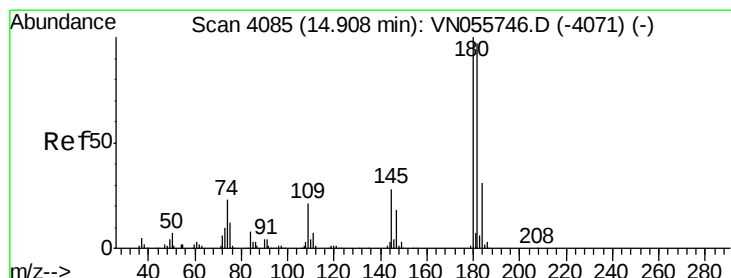
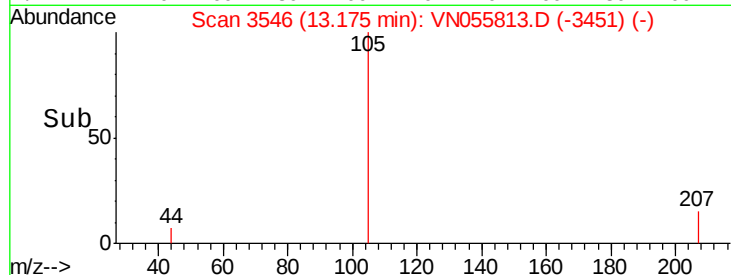
300

200

100

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.733 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN055813.D

Acq: 24 May 2019 23:14

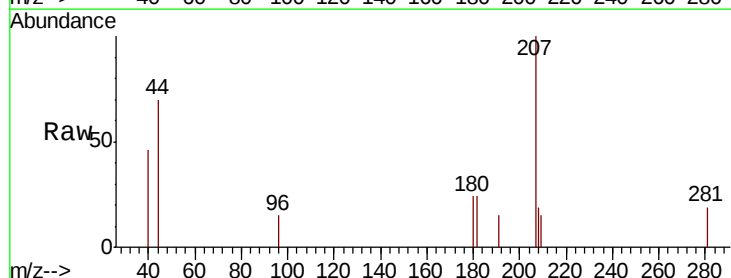
Tgt Ion:180 Resp: 400

Ion Ratio Lower Upper

180 100

182 81.3 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

14.90

300

200

100

0

Time-->

