

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF022119\
 Data File : VF061699.D
 Acq On : 21 Feb 2019 15:42
 Operator : VA/AP
 Sample : K1344-05
 Misc : 5.18g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 NB-07-022019-A

Quant Time: Feb 22 03:28:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 14 03:27:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	375771	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.61	114	577240	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	488927	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	271350	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	128375	46.59	ug/l	0.00
Spiked Amount			Recovery	=	93.18%	
35) Dibromofluoromethane	4.12	113	195216	45.54	ug/l	0.00
Spiked Amount			Recovery	=	91.08%	
50) Toluene-d8	7.56	98	496846	40.32	ug/l	0.00
Spiked Amount			Recovery	=	80.64%	
62) 4-Bromofluorobenzene	11.42	95	209496	42.02	ug/l	0.00
Spiked Amount			Recovery	=	84.04%	

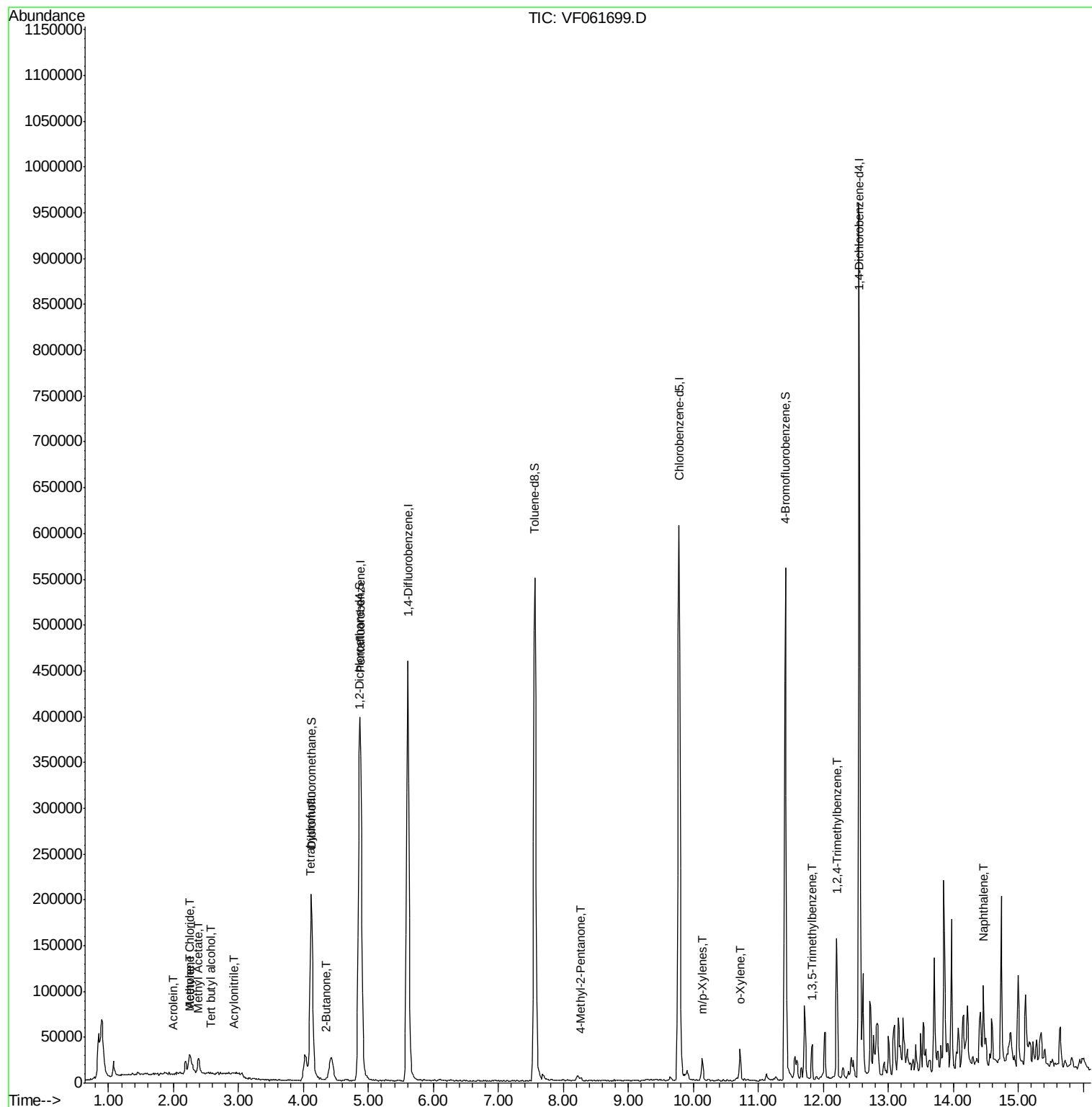
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	478	2.997	ug/l #	1
13) Acrolein	2.01	56	403	2.011	ug/l #	1
15) Acrylonitrile	2.94	53	748	1.322	ug/l #	58
16) Acetone	2.24	43	20830	35.232	ug/l #	87
18) Methyl Acetate	2.38	43	8254	6.197	ug/l #	59
20) Methylene Chloride	2.27	84	11313	1.106	ug/l	87
25) 2-Butanone	4.35	43	2334	1.807	ug/l #	39
29) Tetrahydrofuran	4.10	42	1337	2.278	ug/l #	78
51) 4-Methyl-2-Pentanone	8.27	43	2801	1.247	ug/l	89
68) m/p-Xylenes	10.13	106	8777	1.390	ug/l	87
69) o-Xylene	10.72	106	10274	1.525	ug/l	95
80) 1,3,5-Trimethylbenzene	11.83	105	21060	1.364	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	74868	4.880	ug/l	92
95) Naphthalene	14.45	128	19425	1.750	ug/l #	87

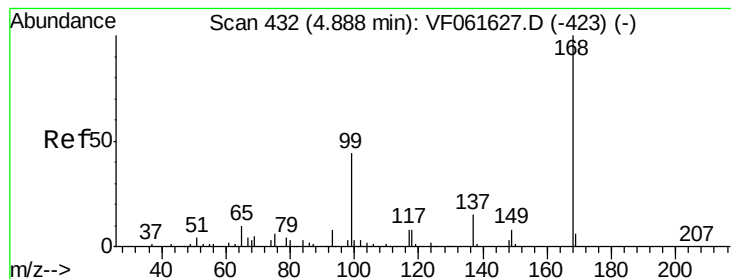
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF022119\
Data File : VF061699.D
Acq On : 21 Feb 2019 15:42
Operator : VA/AP
Sample : K1344-05
Misc : 5.18g/5mL/MSVOA-F/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
NB-07-022019-A

Quant Time: Feb 22 03:28:56 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F021319S.M
Quant Title : SW846 8260
QLast Update : Thu Feb 14 03:27:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. -0.01 min

Lab File: VF061699.D

Acq: 21 Feb 2019 15:42

Instrument :

MSVOA_F

ClientSampleId :

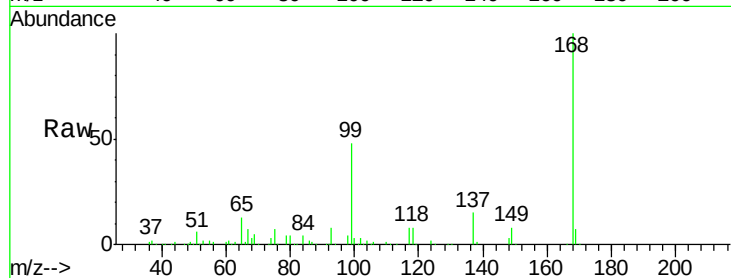
NB-07-022019-A

Tot Ion:168 Resp: 375771

Ion Ratio Lower Upper

168 100

99 47.8 34.9 52.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

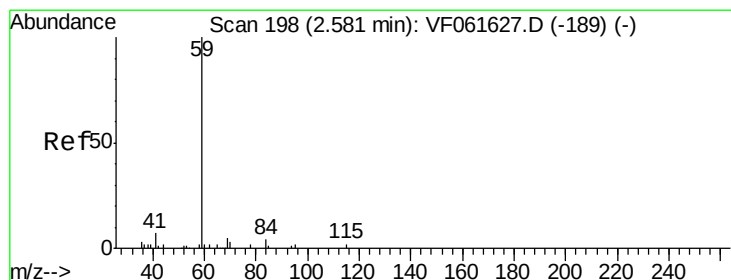
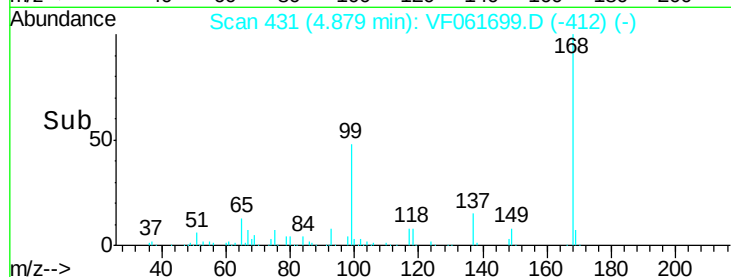
4.88

100000

50000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 2.997 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF061699.D

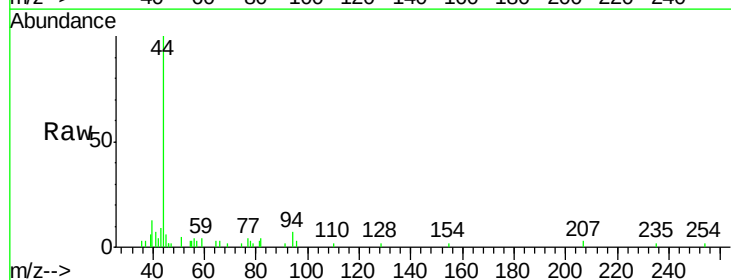
Acq: 21 Feb 2019 15:42

Tgt Ion: 59 Resp: 478

Ion Ratio Lower Upper

59 100

57 77.7 12.5 18.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.57

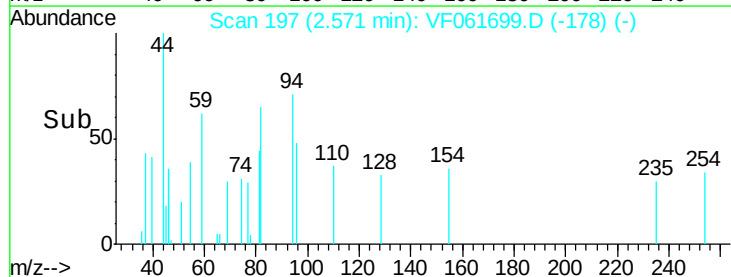
300

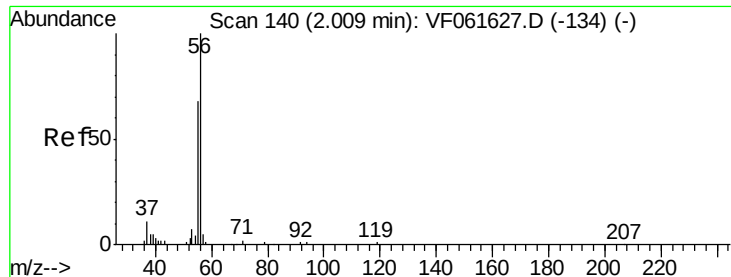
200

100

0

Time--> 2.55 2.60 2.65

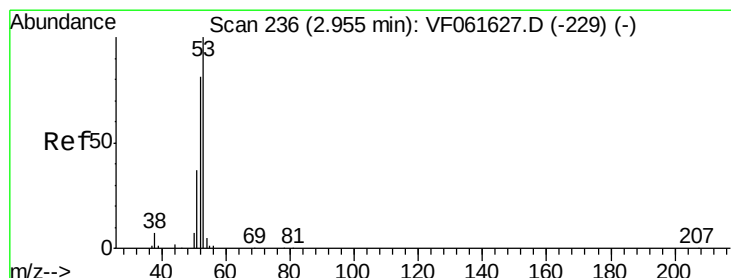
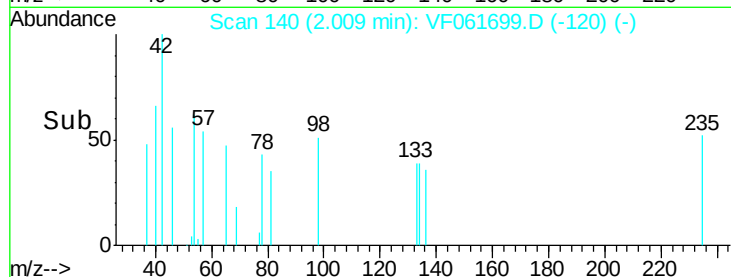
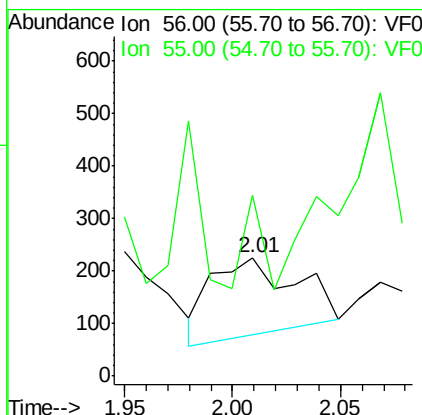
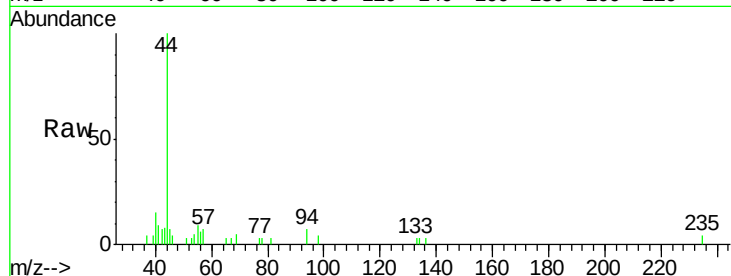




#13
Acrolein
Concen: 2.011 ug/l
RT: 2.01 min Scan# 140
Delta R.T. 0.00 min
Lab File: VF061699.D
Acq: 21 Feb 2019 15:42

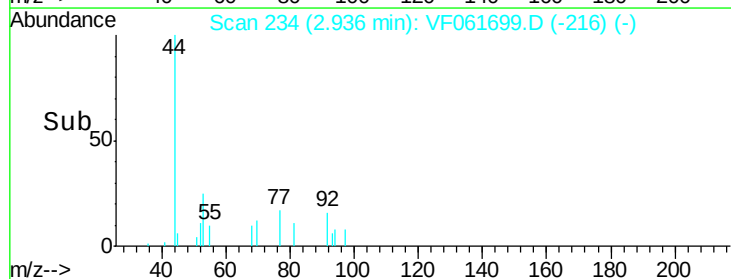
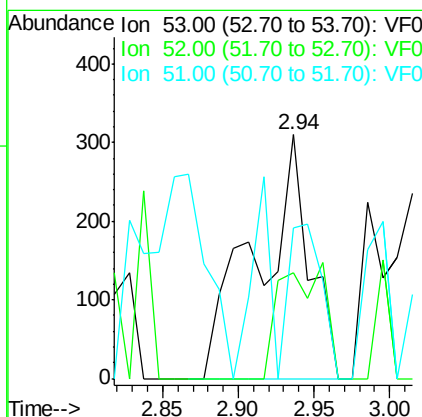
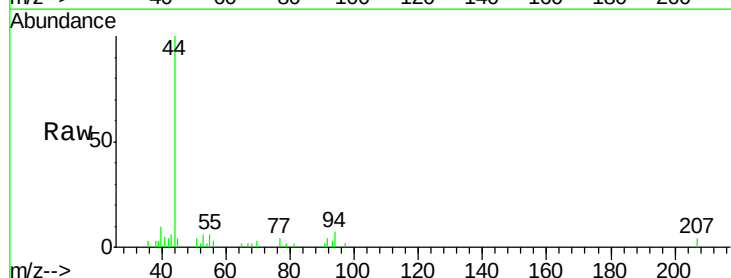
Instrument :
MSVOA_F
ClientSampleId :
NB-07-022019-A

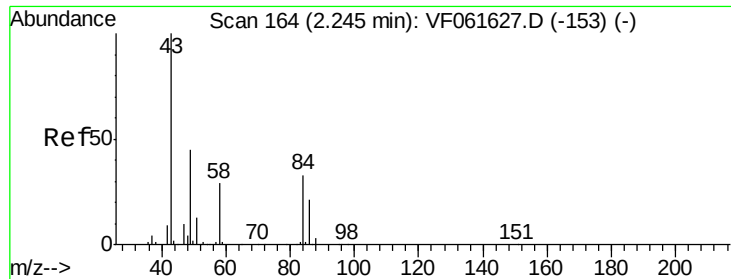
Tot Ion: 56 Resp: 403
Ion Ratio Lower Upper
56 100
55 152.2 55.0 82.6#



#15
Acrylonitrile
Concen: 1.322 ug/l
RT: 2.94 min Scan# 234
Delta R.T. -0.02 min
Lab File: VF061699.D
Acq: 21 Feb 2019 15:42

Tgt Ion: 53 Resp: 748
Ion Ratio Lower Upper
53 100
52 43.5 64.6 97.0#
51 61.9 29.8 44.8#





#16

Acetone

Concen: 35.232 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF061699.D

Acq: 21 Feb 2019 15:42

Instrument :

MSVOA_F

ClientSampleId :

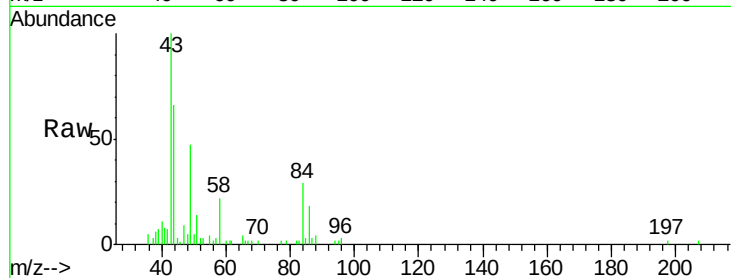
NB-07-022019-A

Tot Ion: 43 Resp: 20830

Ion Ratio Lower Upper

43 100

58 21.9 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8000

6000

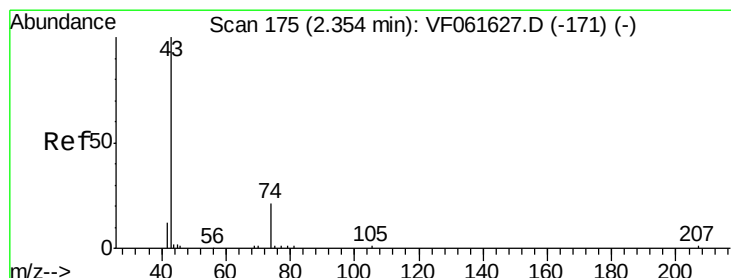
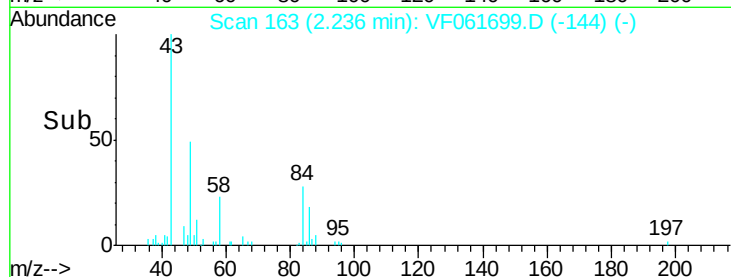
4000

2000

0

2.10 2.20 2.30 2.40

Time-->



#18

Methyl Acetate

Concen: 6.197 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.03 min

Lab File: VF061699.D

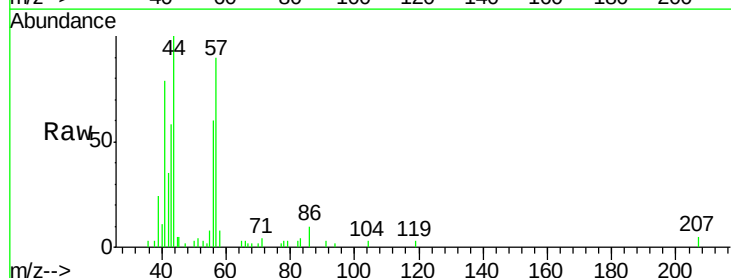
Acq: 21 Feb 2019 15:42

Tgt Ion: 43 Resp: 8254

Ion Ratio Lower Upper

43 100

74 0.0 14.6 21.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

6000

5000

4000

3000

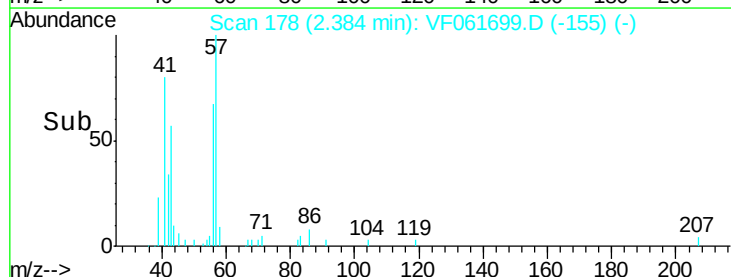
2000

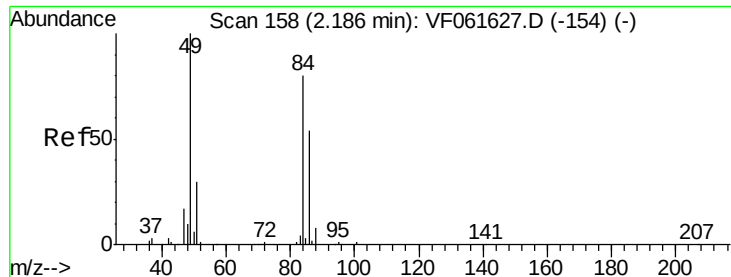
1000

0

2.30 2.40 2.50

Time-->

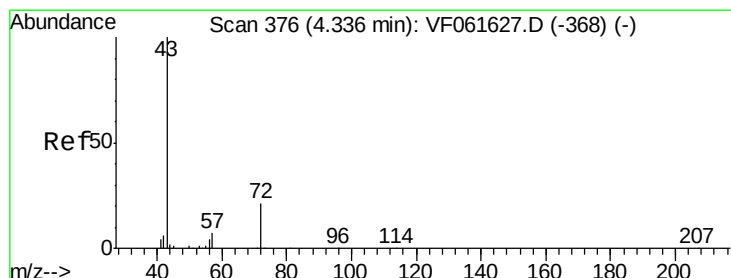
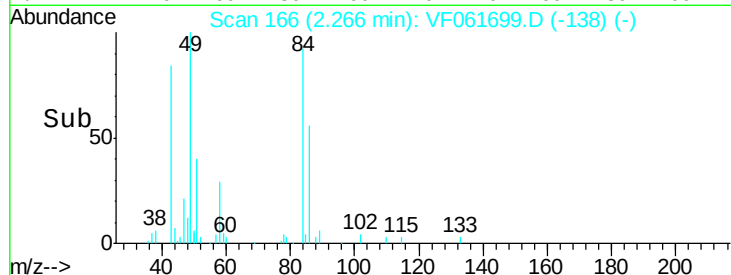
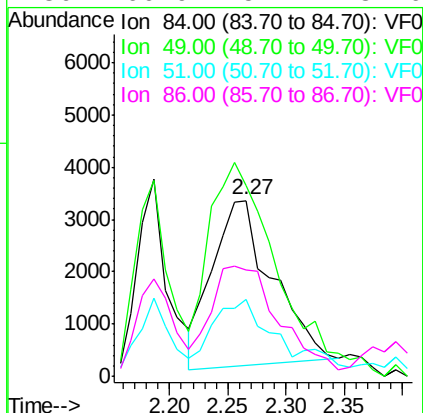
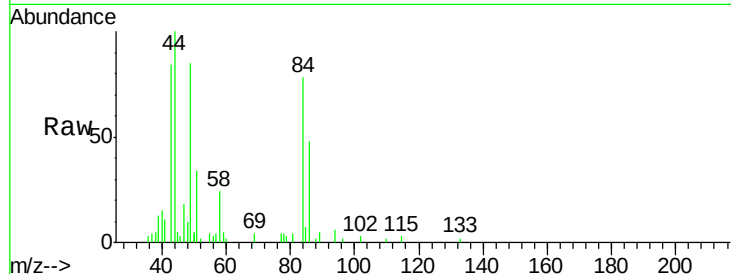




#20
Methvlene Chloride
Concen: 1.106 ug/l
RT: 2.27 min Scan# 166
Delta R.T. 0.08 min
Lab File: VF061699.D
Acq: 21 Feb 2019 15:42

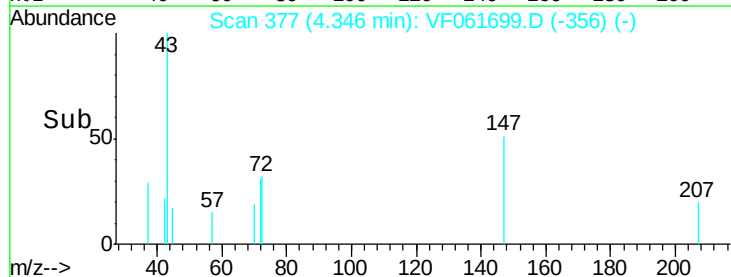
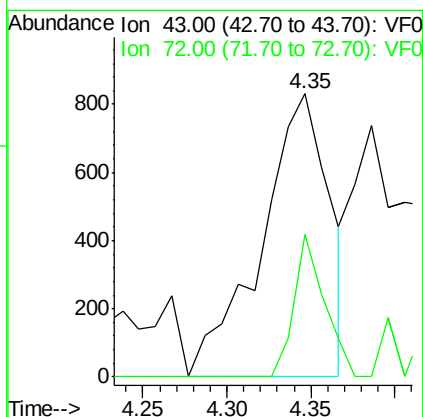
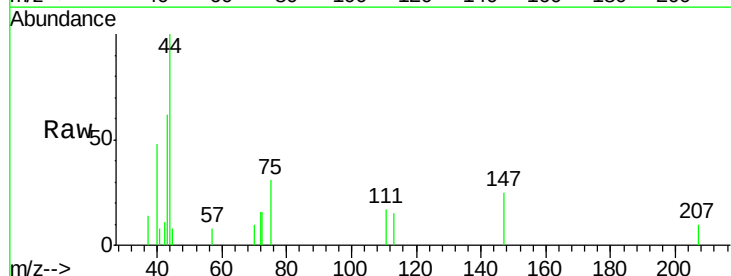
Instrument :
MSVOA_F
ClientSampleId :
NB-07-022019-A

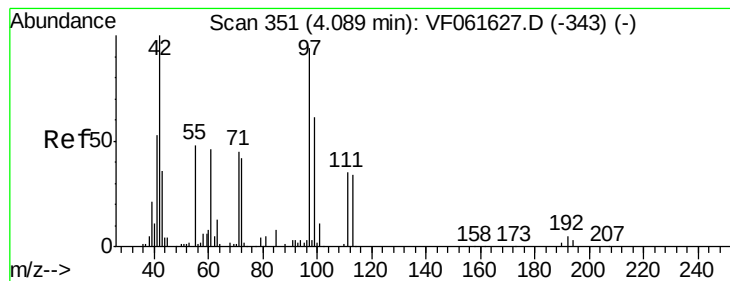
Tot Ion: 84 Resp: 11313
Ion Ratio Lower Upper
84 100
49 108.5 101.8 152.8
51 43.6 31.1 46.7
86 60.9 54.4 81.6



#25
2-Butanone
Concen: 1.807 ug/l
RT: 4.35 min Scan# 377
Delta R.T. 0.01 min
Lab File: VF061699.D
Acq: 21 Feb 2019 15:42

Tgt Ion: 43 Resp: 2334
Ion Ratio Lower Upper
43 100
72 50.3 17.1 25.7#





#29

Tetrahydrofuran

Concen: 2.278 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.01 min

Lab File: VF061699.D

Acq: 21 Feb 2019 15:42

Instrument :

MSVOA_F

ClientSampleId :

NB-07-022019-A

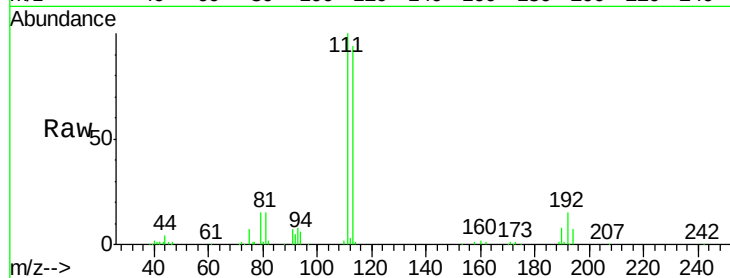
Tot Ion: 42 Resp: 1337

Ion Ratio Lower Upper

42 100

72 52.6 35.2 52.8

71 60.7 32.9 49.3#

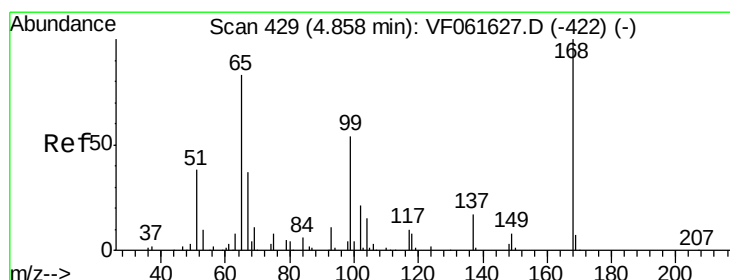
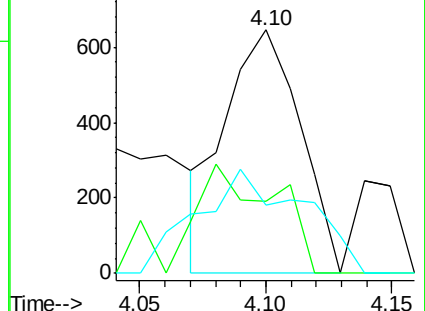
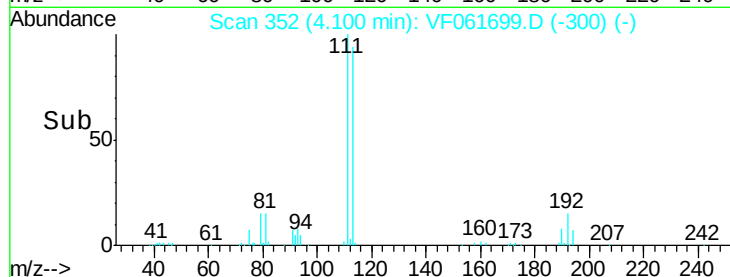


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 46.587 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061699.D

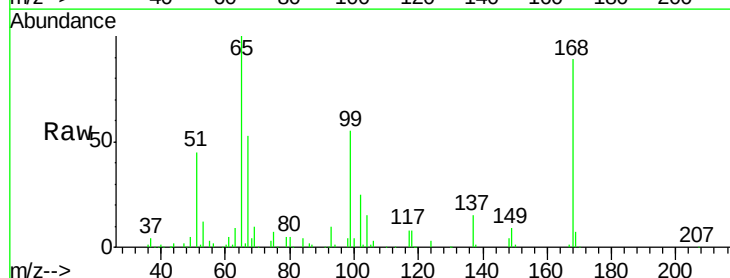
Acq: 21 Feb 2019 15:42

Tgt Ion: 65 Resp: 128375

Ion Ratio Lower Upper

65 100

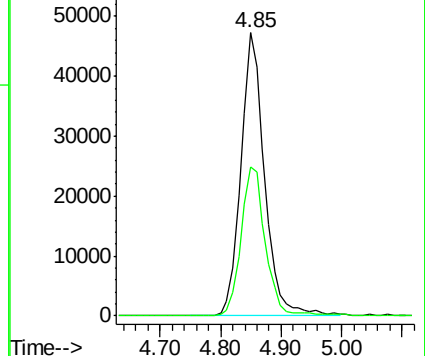
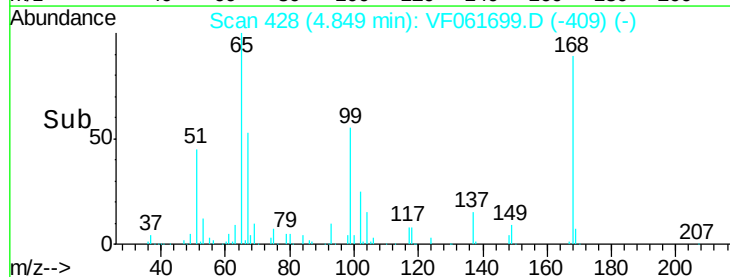
67 52.7 0.0 104.0

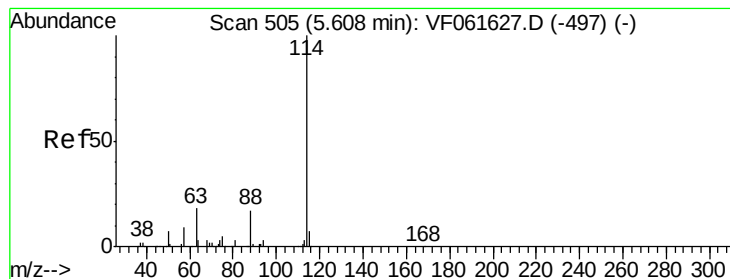


Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.00 min

Lab File: VF061699.D

Acq: 21 Feb 2019 15:42

Instrument :

MSVOA_F

ClientSampleId :

NB-07-022019-A

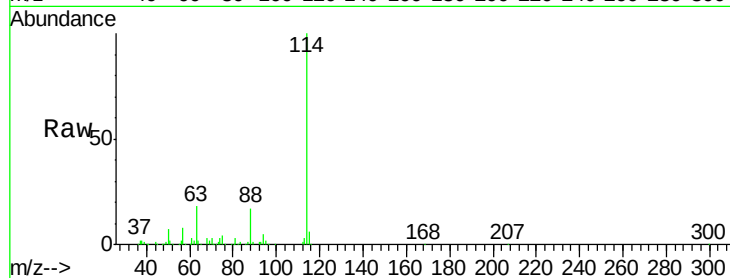
Tot Ion:114 Resp: 577240

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.6

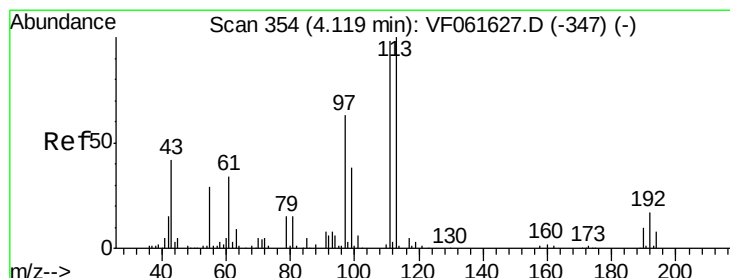
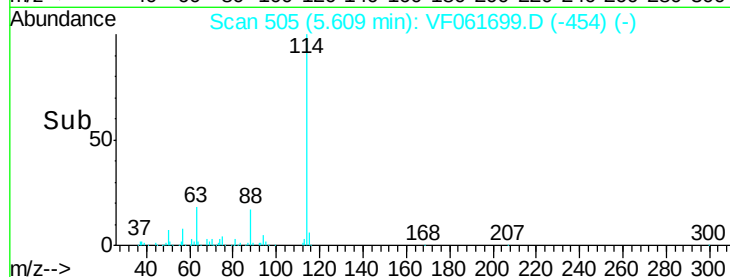
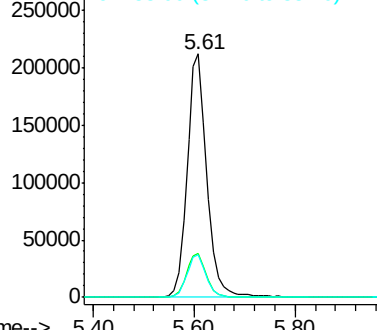
88 17.5 0.0 34.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 45.541 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.00 min

Lab File: VF061699.D

Acq: 21 Feb 2019 15:42

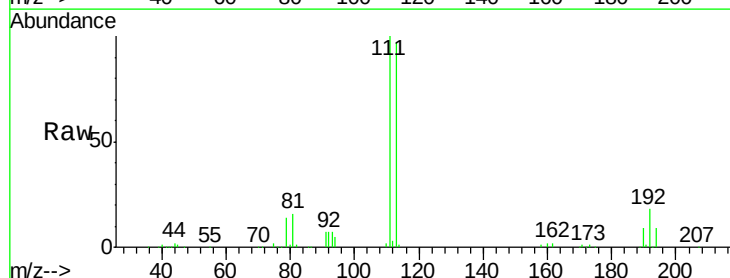
Tgt Ion:113 Resp: 195216

Ion Ratio Lower Upper

113 100

111 103.3 78.8 118.2

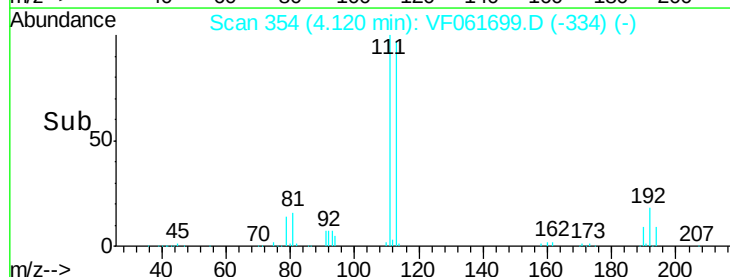
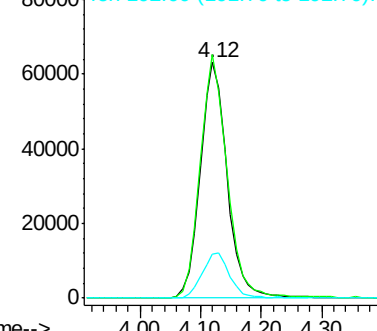
192 18.8 13.4 20.0

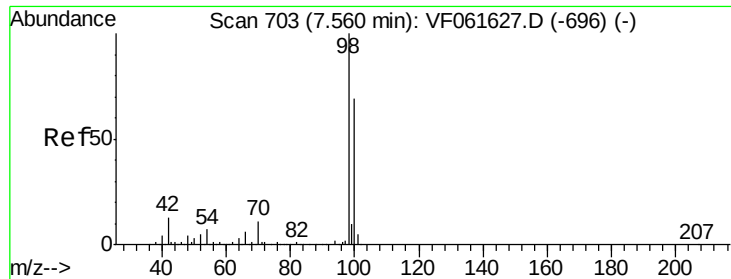


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#50

Toluene-d8

Concen: 40.319 ug/l

RT: 7.56 min Scan# 703

Delta R.T. 0.00 min

Lab File: VF061699.D

Acq: 21 Feb 2019 15:42

Instrument :

MSVOA_F

ClientSampleId :

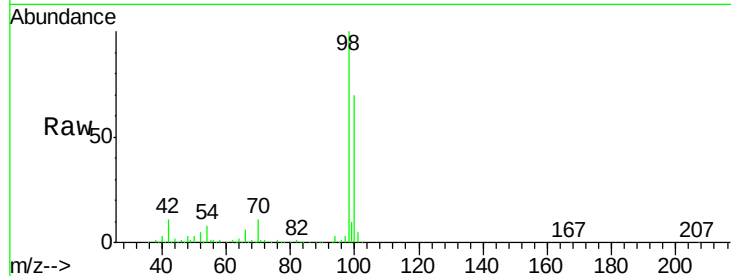
NB-07-022019-A

Tot Ion: 98 Resp: 496846

Ion Ratio Lower Upper

98 100

100 70.4 55.4 83.2



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.56

250000

200000

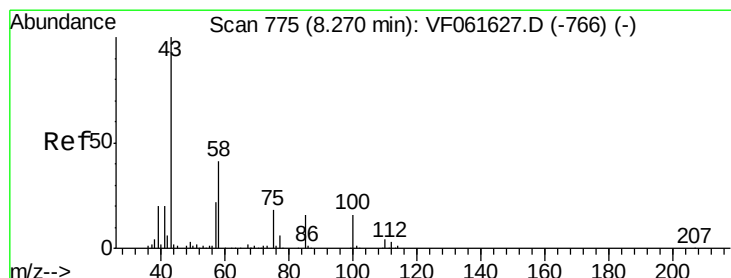
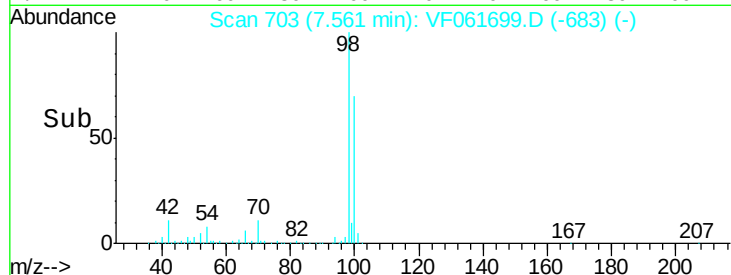
150000

100000

50000

0

Time--> 7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 1.247 ug/l

RT: 8.27 min Scan# 775

Delta R.T. 0.00 min

Lab File: VF061699.D

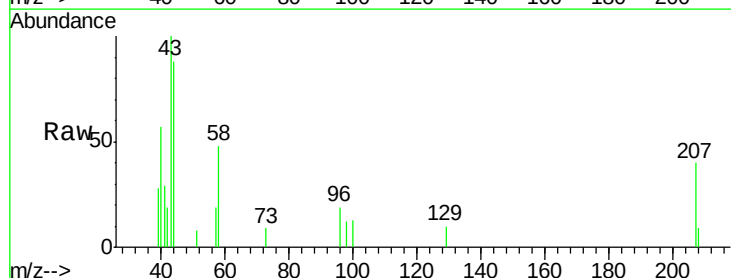
Acq: 21 Feb 2019 15:42

Tgt Ion: 43 Resp: 2801

Ion Ratio Lower Upper

43 100

58 48.0 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

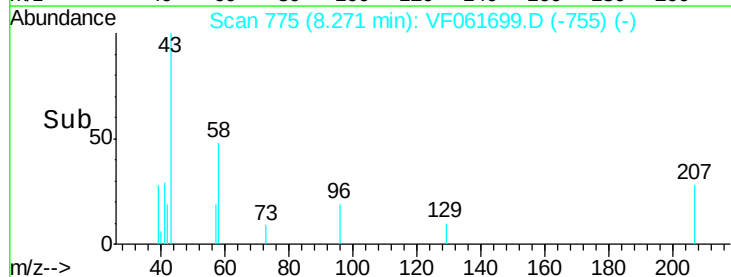
8.27

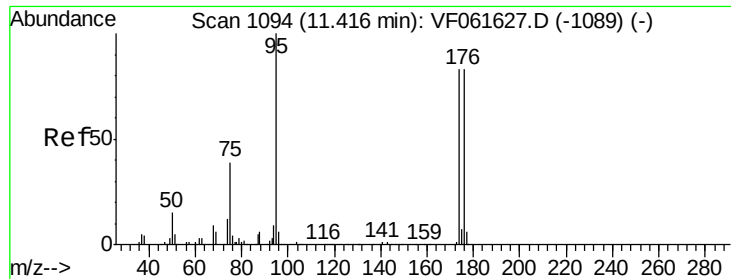
1000

500

0

Time--> 8.15 8.20 8.25 8.30 8.35

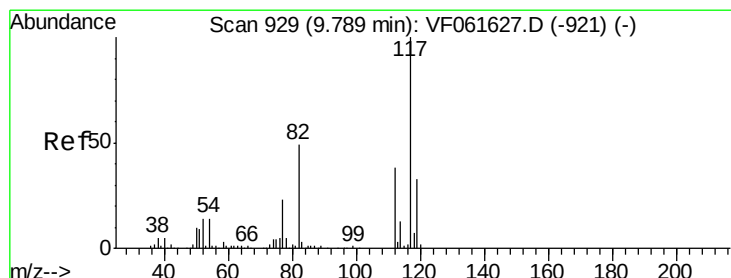
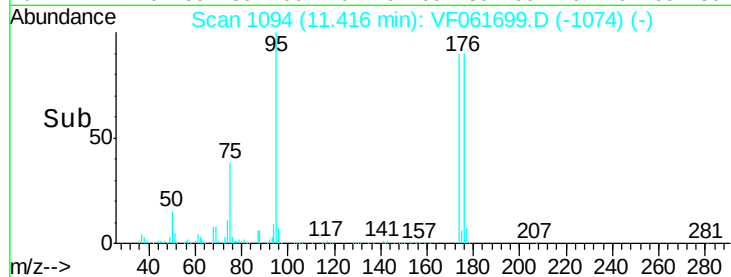
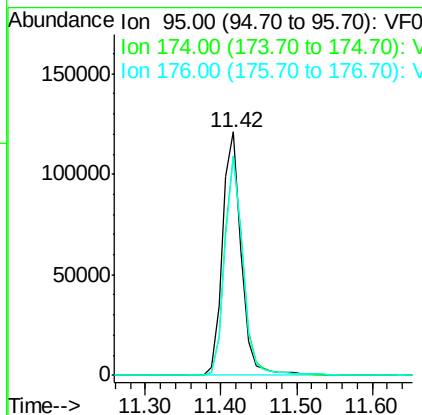
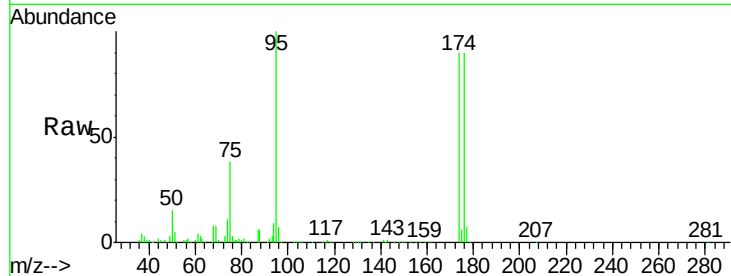




#62
4-Bromofluorobenzene
Concen: 42.017 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF061699.D
Acq: 21 Feb 2019 15:42

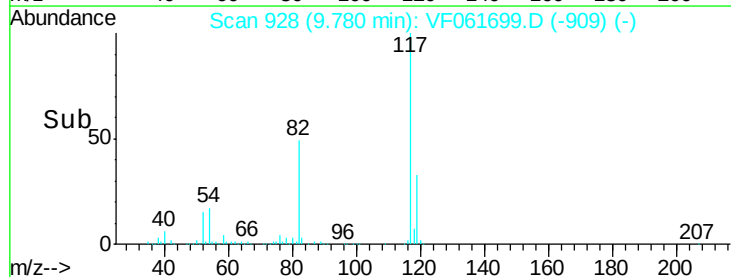
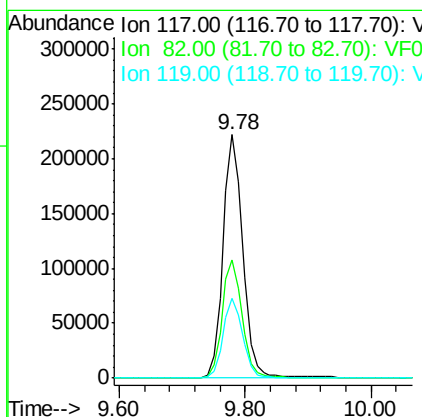
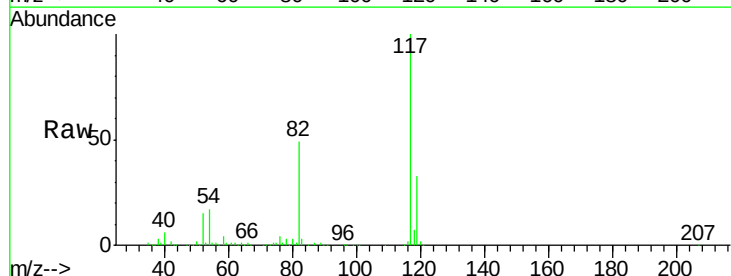
Instrument :
MSVOA_F
ClientSampleId :
NB-07-022019-A

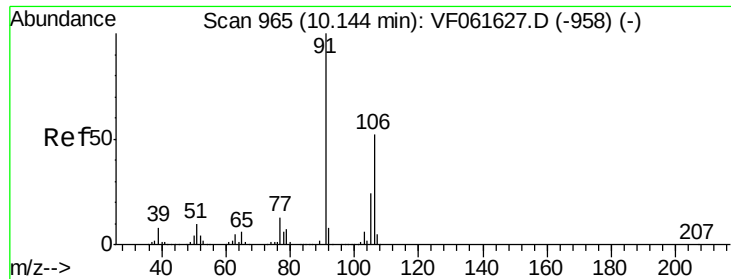
Tot Ion: 95 Resp: 209496
Ion Ratio Lower Upper
95 100
174 90.0 0.0 165.8
176 90.1 0.0 167.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF061699.D
Acq: 21 Feb 2019 15:42

Tgt Ion: 117 Resp: 488927
Ion Ratio Lower Upper
117 100
82 48.7 39.3 58.9
119 32.9 26.6 40.0

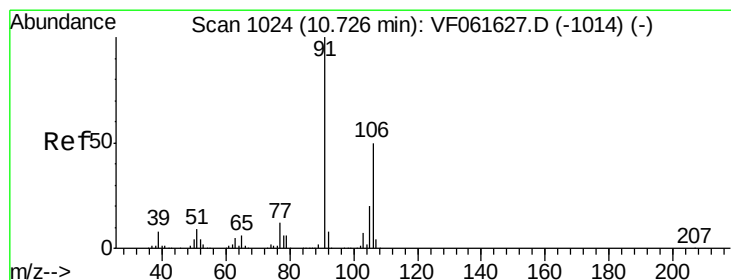
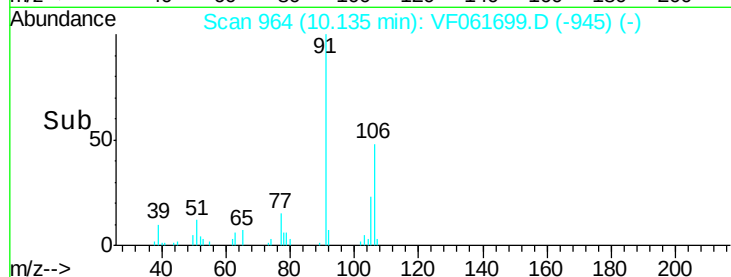
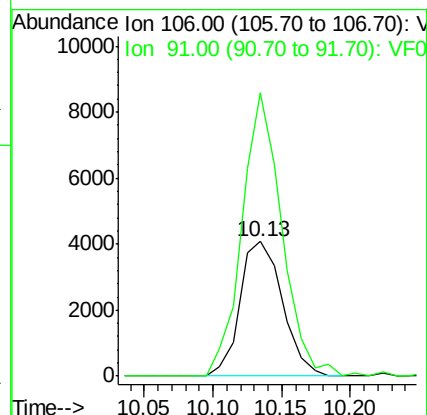
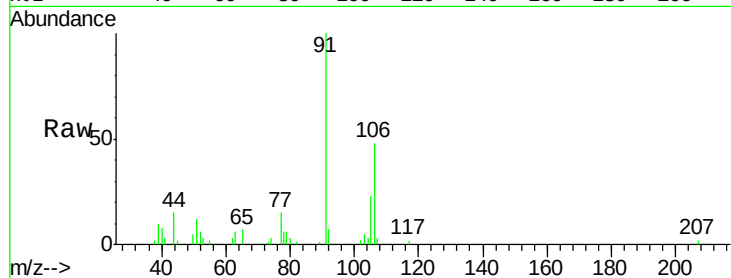




#68
m/p-Xylenes
Concen: 1.390 ug/l
RT: 10.13 min Scan# 964
Delta R.T. -0.01 min
Lab File: VF061699.D
Acq: 21 Feb 2019 15:42

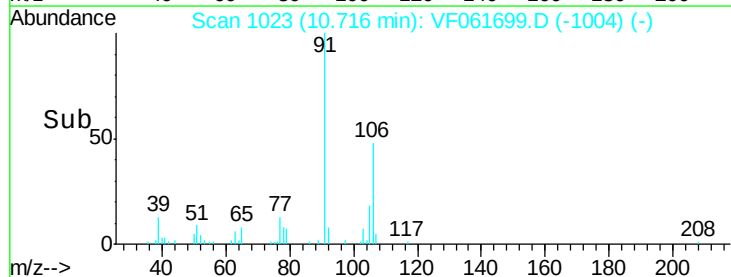
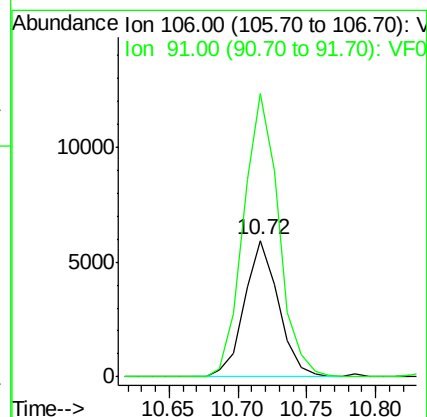
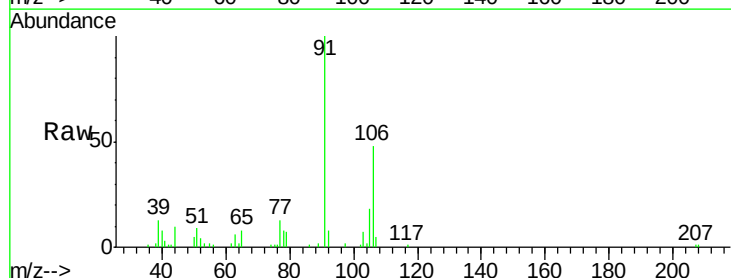
Instrument :
MSVOA_F
ClientSampleId :
NB-07-022019-A

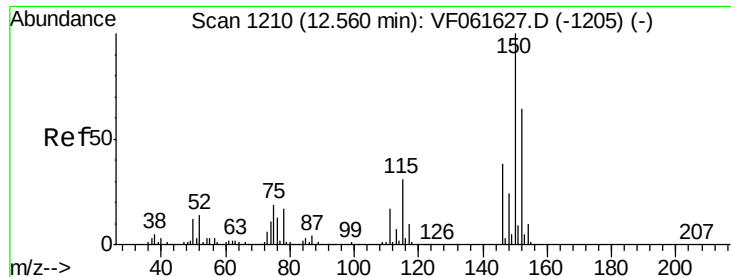
Tot Ion:106 Resp: 8777
Ion Ratio Lower Upper
106 100
91 210.1 153.0 229.6



#69
o-Xylene
Concen: 1.525 ug/l
RT: 10.72 min Scan# 1023
Delta R.T. -0.01 min
Lab File: VF061699.D
Acq: 21 Feb 2019 15:42

Tgt Ion:106 Resp: 10274
Ion Ratio Lower Upper
106 100
91 207.3 100.1 300.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.01 min

Lab File: VF061699.D

Acq: 21 Feb 2019 15:42

Instrument :

MSVOA_F

ClientSampleId :

NB-07-022019-A

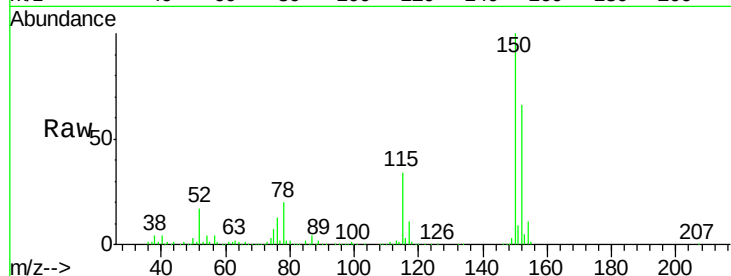
Tot Ion:152 Resp: 271350

Ion Ratio Lower Upper

152 100

115 51.7 24.3 72.8

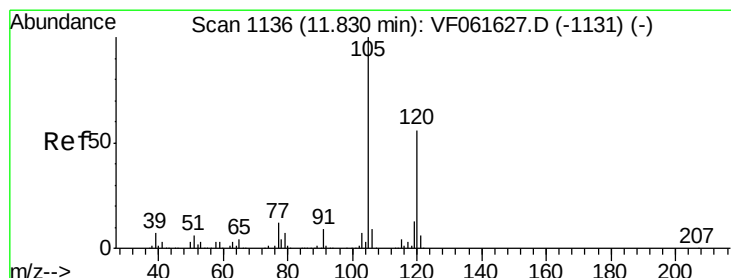
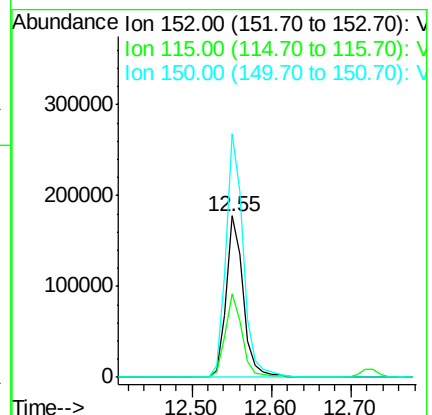
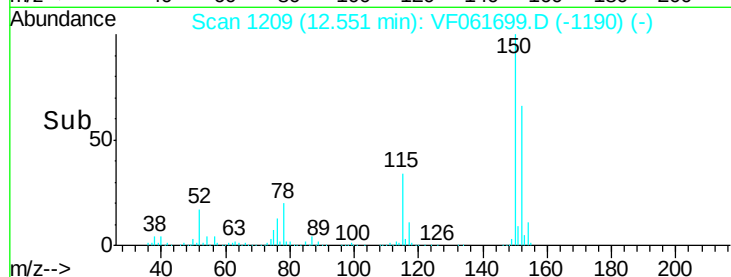
150 151.1 0.0 312.0



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#80

1,3,5-Trimethylbenzene

Concen: 1.364 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VF061699.D

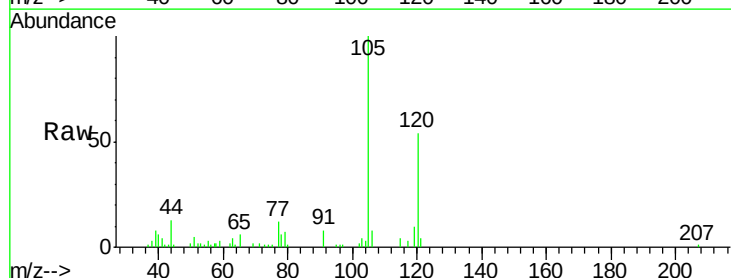
Acq: 21 Feb 2019 15:42

Tgt Ion:105 Resp: 21060

Ion Ratio Lower Upper

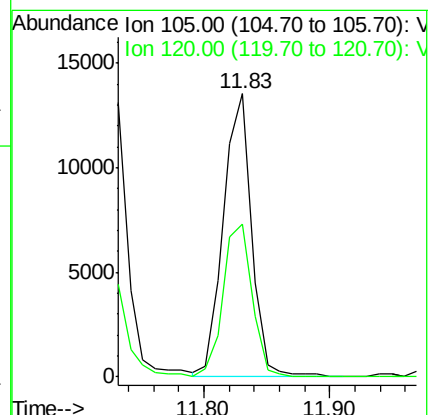
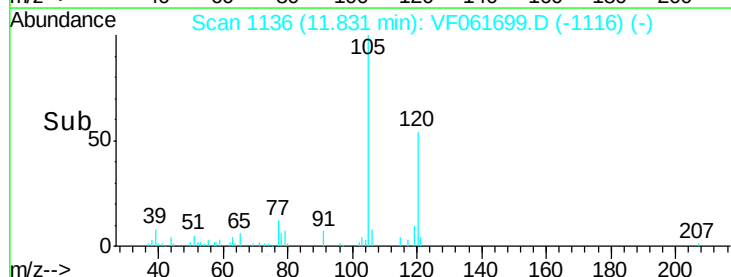
105 100

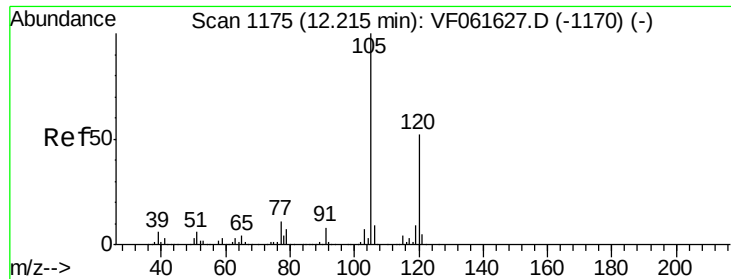
120 53.9 27.9 83.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 4.880 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VF061699.D

Acq: 21 Feb 2019 15:42

Instrument :

MSVOA_F

ClientSampleId :

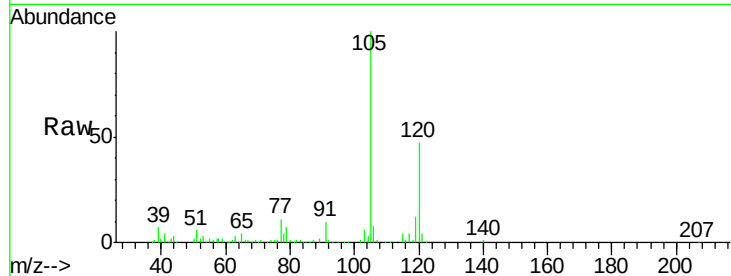
NB-07-022019-A

Tot Ion:105 Resp: 74868

Ion Ratio Lower Upper

105 100

120 46.8 26.1 78.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.21

60000

50000

40000

30000

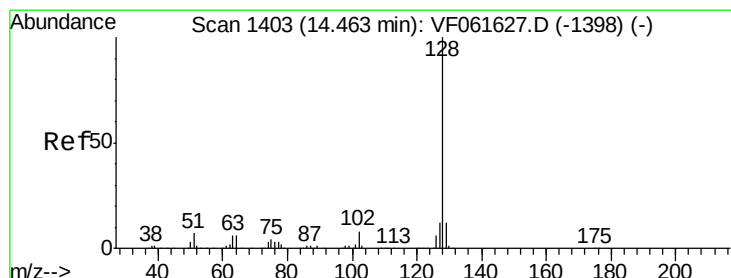
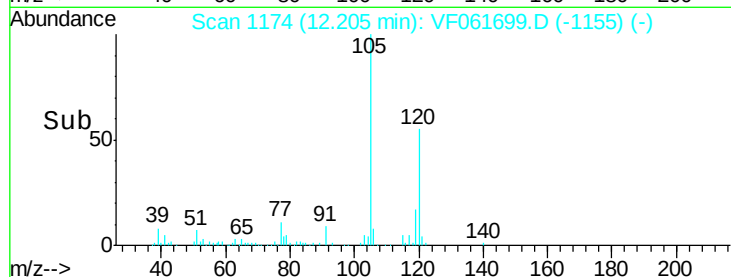
20000

10000

0

Time-->

12.10 12.20 12.30



#95

Naphthalene

Concen: 1.750 ug/l

RT: 14.45 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF061699.D

Acq: 21 Feb 2019 15:42

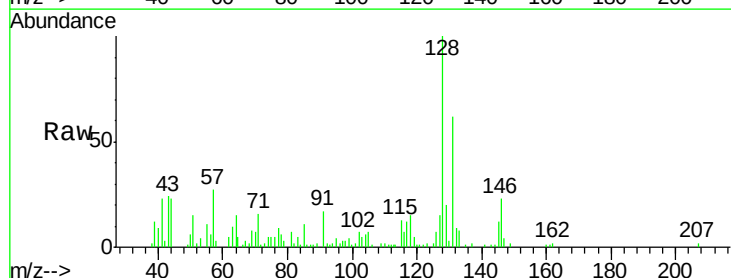
Tgt Ion:128 Resp: 19425

Ion Ratio Lower Upper

128 100

127 14.6 9.8 14.6

129 19.7 9.4 14.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

14.45

15000

10000

5000

0

Time-->

14.40 14.50

