

Data File : VV008859.D
Acq On : 06 Dec 2018 14:18
Operator : SY/MD
Sample : I.BLK
Misc : 5.00g/10.0 mL/MSVOA_V/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VBLK80

Quant Time: Dec 07 00:34:28 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 07 00:29:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	204843	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	177099	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	74232	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	58318	26.23	ug/L	0.00
7) Chloroethane-d5	1.58	69	43183	26.60	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	108048	20.36	ug/L	0.00
20) 2-Butanone-d5	3.93	46	45235	68.28	ug/L	0.00
24) Chloroform-d	4.40	84	123459	25.58	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	72978	28.60	ug/L	0.00
29) Benzene-d6	5.10	84	263914	27.49	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	73293	27.58	ug/L	0.00
37) Toluene-d8	7.36	98	236697	26.62	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	30271	26.17	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	29169	64.10	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	60546	28.06	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.68	152	74001	29.17	ug/L	0.00

Target Compounds

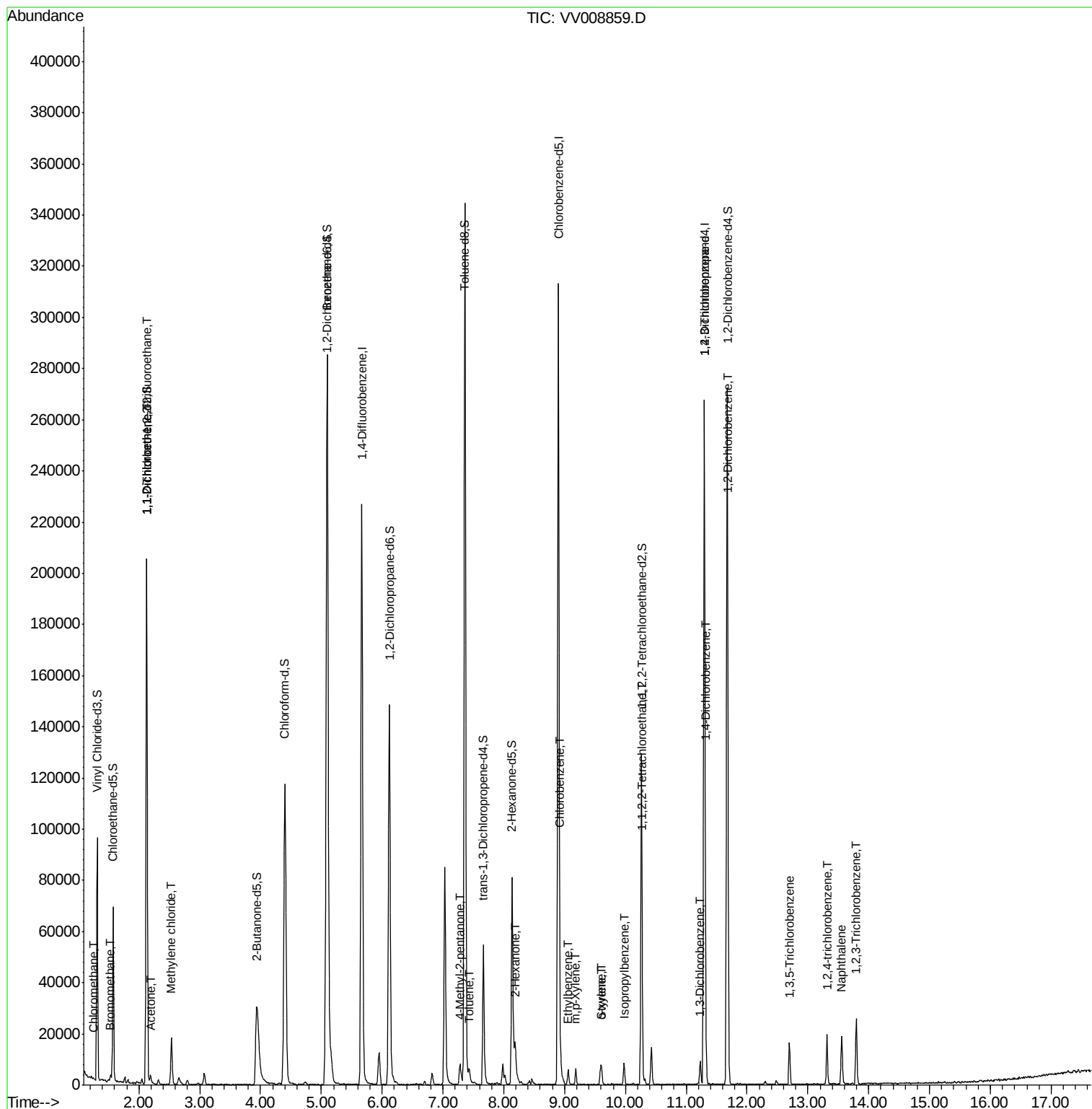
					Qvalue
3) Chloromethane	1.25	50	654	0.285 ug/L	89
6) Bromomethane	1.53	94	1272	1.065 ug/L	96
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	1207	0.395 ug/L #	18
12) 1,1-Dichloroethene	2.13	96	1343	0.502 ug/L #	1
13) Acetone	2.20	43	2315	1.912 ug/L	93
16) Methylene chloride	2.54	84	8184	2.677 ug/L	96
43) 4-Methyl-2-pentanone	7.27	43	6147	3.978 ug/L #	94
44) Toluene	7.43	91	3449	0.306 ug/L	98
49) 2-Hexanone	8.19	43	8519	6.240 ug/L #	94
52) Chlorobenzene	8.93	112	2565	0.356 ug/L	90
53) Ethylbenzene	9.06	91	4717	0.381 ug/L	90
54) m,p-Xylene	9.18	106	2142	0.455 ug/L	72
55) o-xylene	9.59	106	1710	0.392 ug/L	89
56) Styrene	9.61	104	3431	0.474 ug/L	98
57) Isopropylbenzene	9.98	105	5790	0.492 ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.28	83	1179	0.523 ug/L #	86
59) 1,2,3-Trichloropropane	11.30	75	8970	4.846 ug/L	96
63) 1,3-Dichlorobenzene	11.23	146	4250	0.904 ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	4977	1.041 ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	4637	1.059 ug/L	90
67) 1,3,5-Trichlorobenzene	12.70	180	5866	1.706 ug/L	94
68) 1,2,4-trichlorobenzene	13.32	180	6344	2.623 ug/L	98
69) Naphthalene	13.56	128	16729	4.321 ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	8074	3.629 ug/L	98

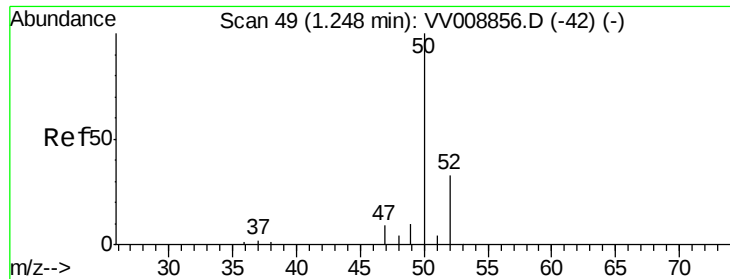
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : VOC Analysis
QLast Update : Fri Dec 07 00:29:23 2018
Response via : Initial Calibration





#3

Chloromethane

Concen: 0.285 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

Instrument :

MSVOA_V

ClientSampleId :

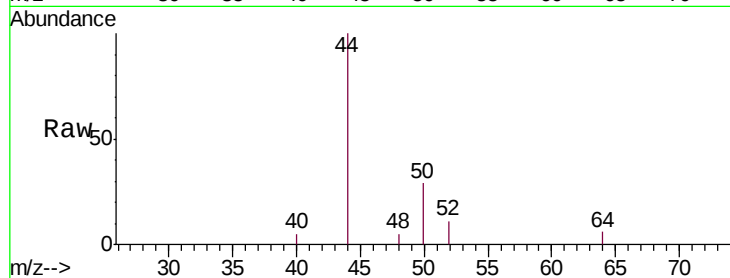
VBLK80

Tgt Ion: 50 Resp: 654

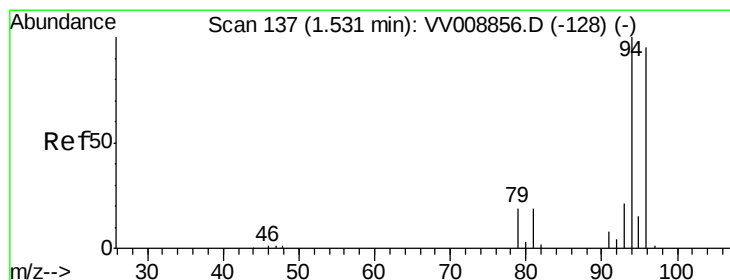
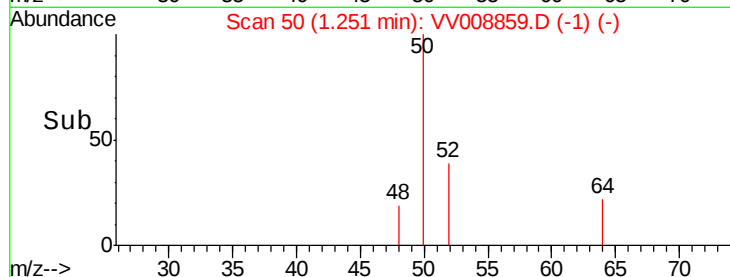
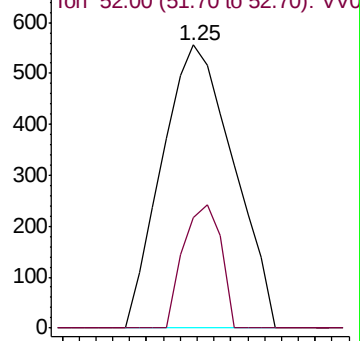
Ion Ratio Lower Upper

50 100

52 39.2 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VV008859.D (-1) (-)



#6

Bromomethane

Concen: 1.065 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV008859.D

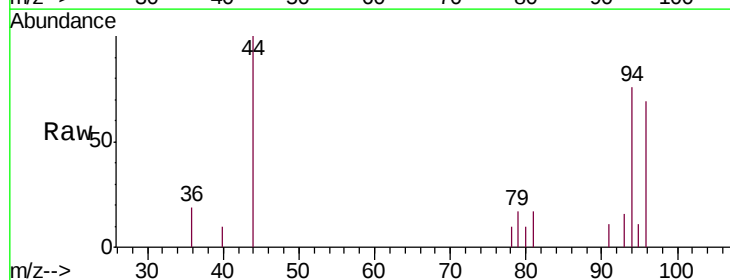
Acq: 06 Dec 2018 14:18

Tgt Ion: 94 Resp: 1272

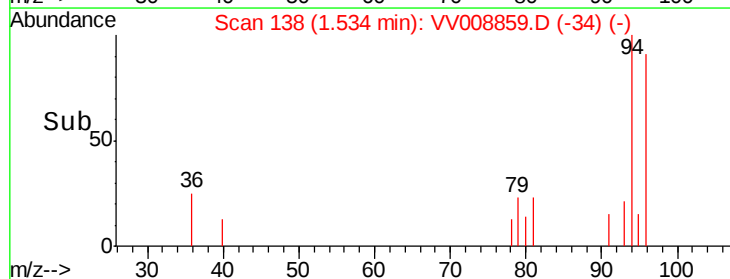
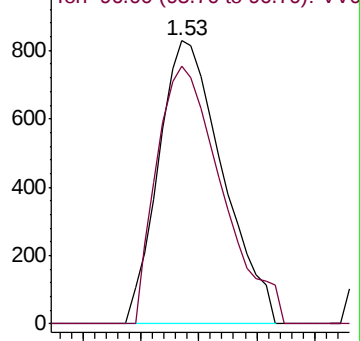
Ion Ratio Lower Upper

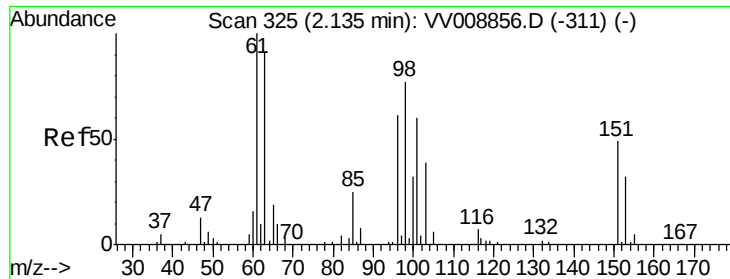
94 100

96 91.0 9.5 180.9



Abundance Ion 94.00 (93.70 to 94.70): VV008859.D (-34) (-)





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.395 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

Instrument :

MSVOA_V

ClientSampleId :

VBLK80

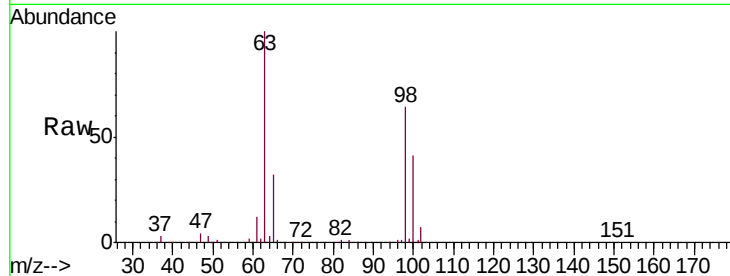
Tgt Ion: 101 Resp: 1207

Ion Ratio Lower Upper

101 100

85 0.0 32.5 48.7#

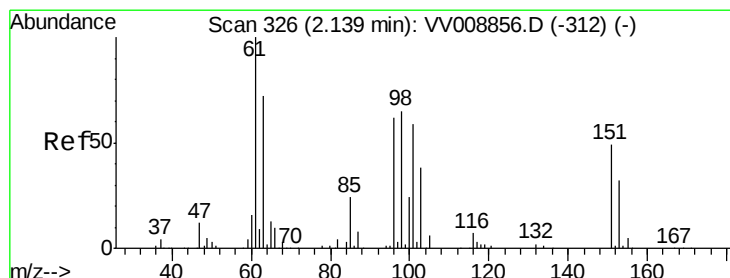
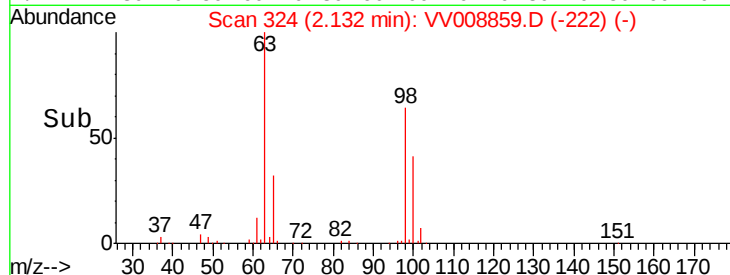
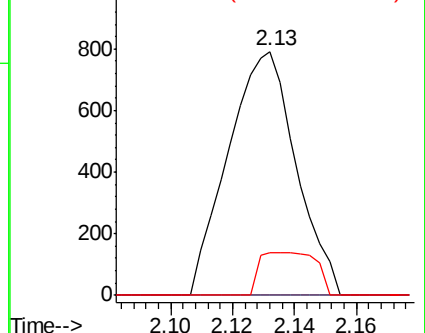
151 0.0 64.2 96.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.502 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

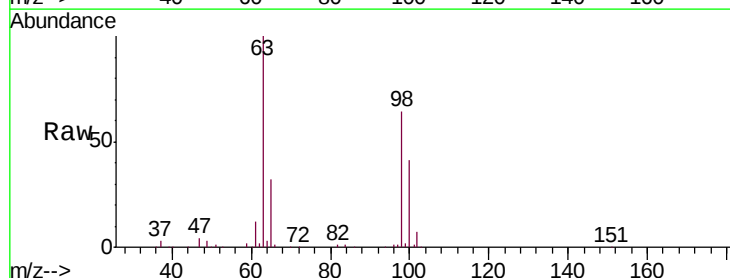
Tgt Ion: 96 Resp: 1343

Ion Ratio Lower Upper

96 100

61 944.7 114.0 211.6#

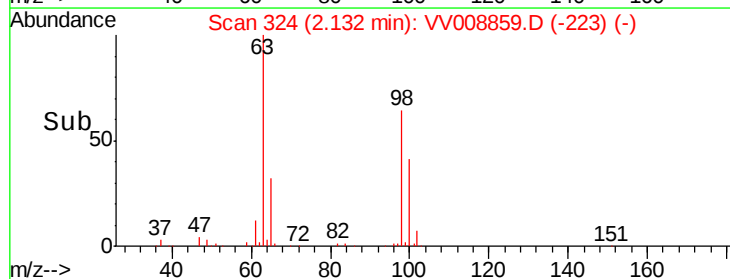
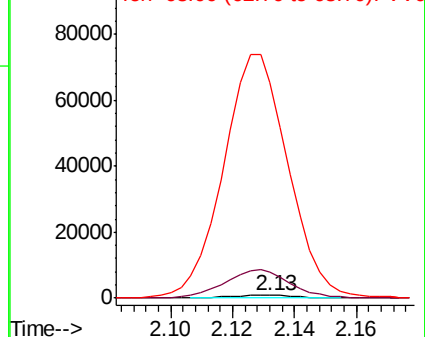
63 7672.9 82.4 153.0#

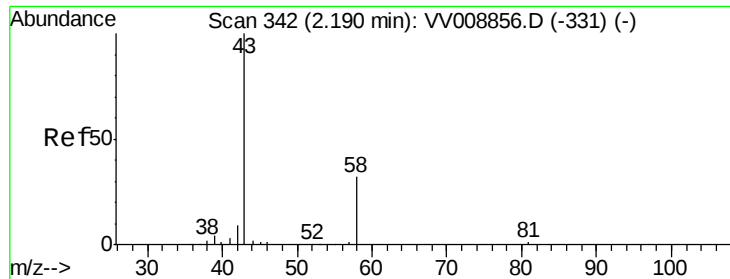


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 1.912 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

Instrument :

MSVOA_V

ClientSampled :

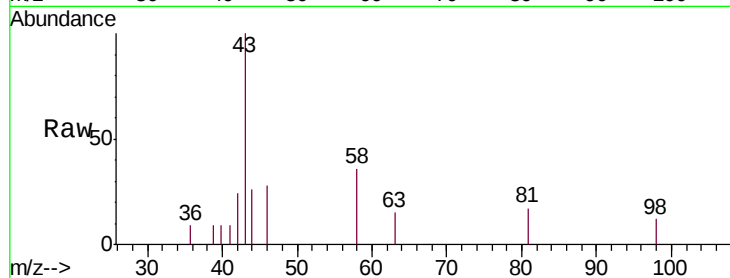
VBLK80

Tgt Ion: 43 Resp: 2315

Ion Ratio Lower Upper

43 100

58 28.9 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VV008856.D (-331) (-)

Ion 58.00 (57.70 to 58.70): VV008856.D (-331) (-)

1500

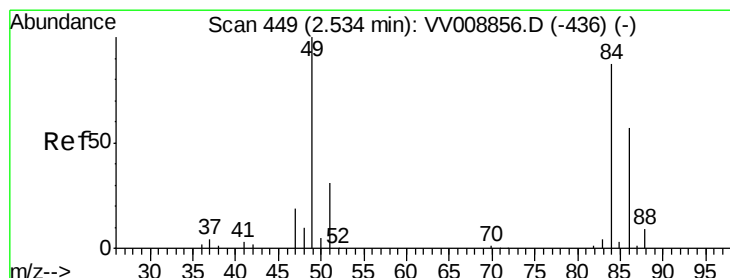
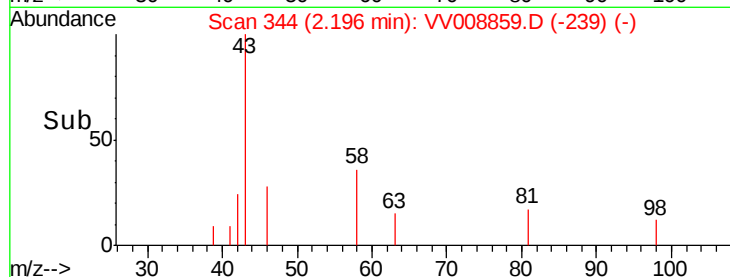
1000

500

0

2.15 2.20 2.25

Time-->



#16

Methylene chloride

Concen: 2.677 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

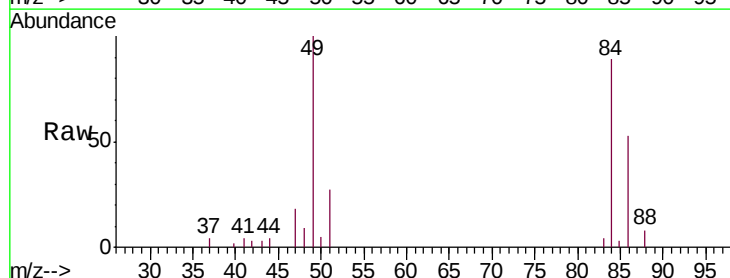
Tgt Ion: 84 Resp: 8184

Ion Ratio Lower Upper

84 100

49 112.4 80.5 149.5

86 59.3 45.5 84.5



Abundance Ion 84.00 (83.70 to 84.70): VV008856.D (-436) (-)

Ion 49.00 (48.70 to 49.70): VV008856.D (-436) (-)

Ion 86.00 (85.70 to 86.70): VV008856.D (-436) (-)

6000

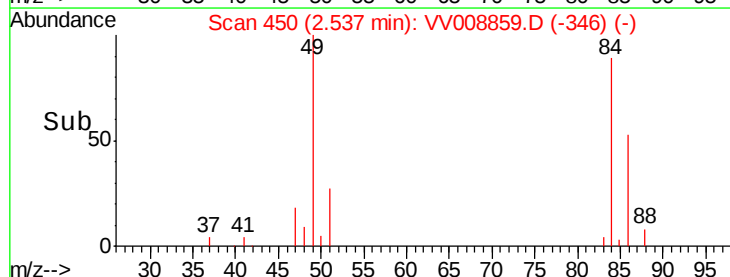
4000

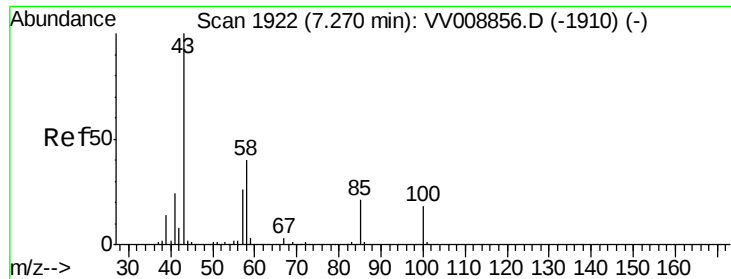
2000

0

2.50 2.54 2.60

Time-->

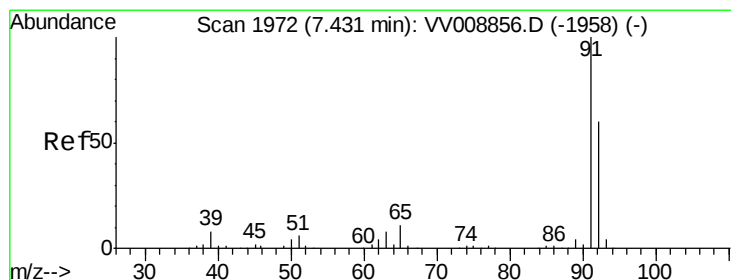
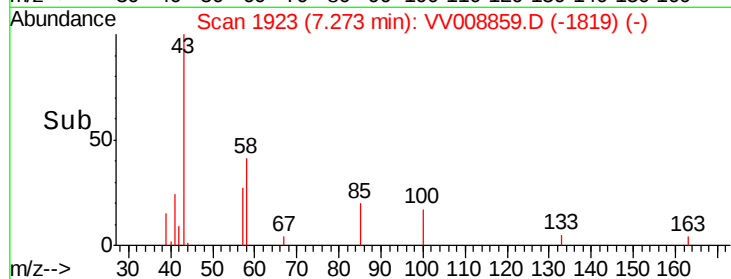
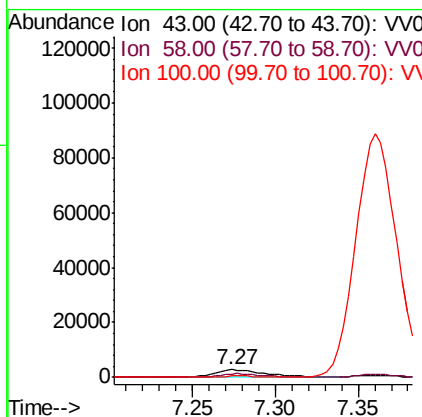
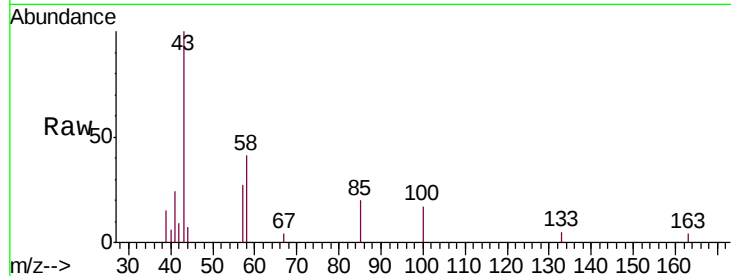




#43
 4-Methyl-2-pentanone
 Concen: 3.978 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV008859.D
 Acq: 06 Dec 2018 14:18

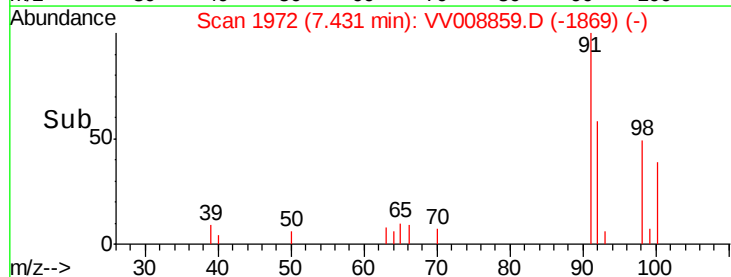
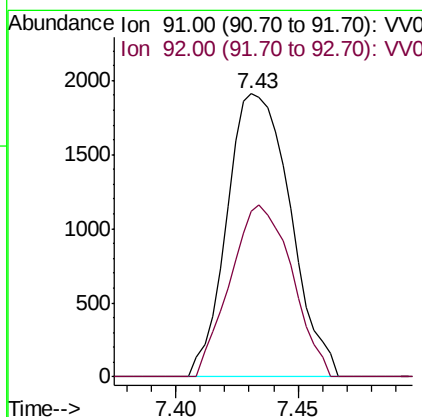
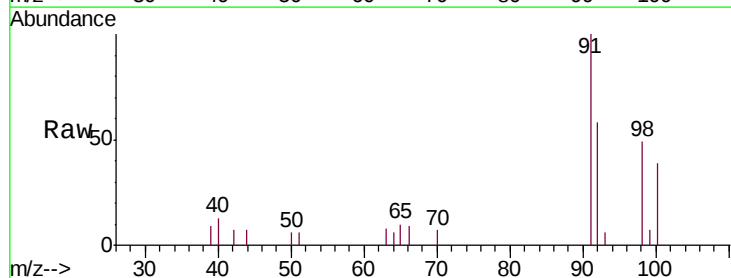
Instrument :
 MSVOA_V
 ClientSampleId :
 VBLK80

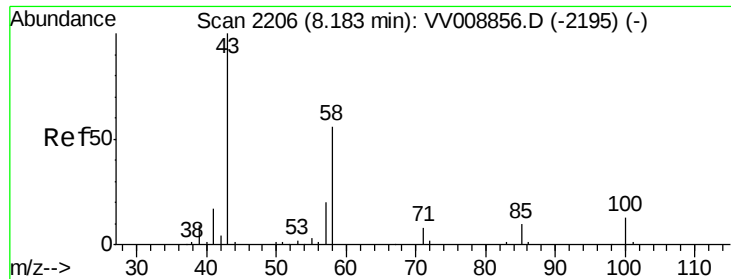
Tgt Ion: 43 Resp: 6147
 Ion Ratio Lower Upper
 43 100
 58 37.8 32.2 48.4
 100 12.9 13.8 20.8#



#44
 Toluene
 Concen: 0.306 ug/L
 RT: 7.43 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VV008859.D
 Acq: 06 Dec 2018 14:18

Tgt Ion: 91 Resp: 3449
 Ion Ratio Lower Upper
 91 100
 92 58.4 41.7 77.5

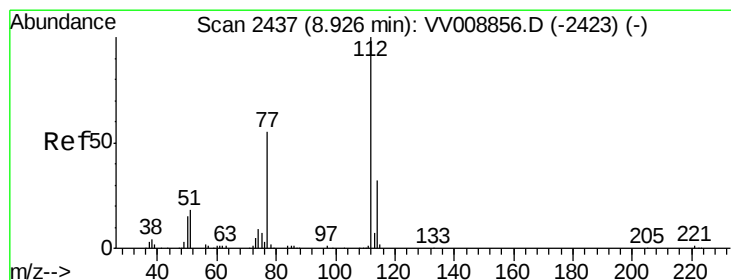
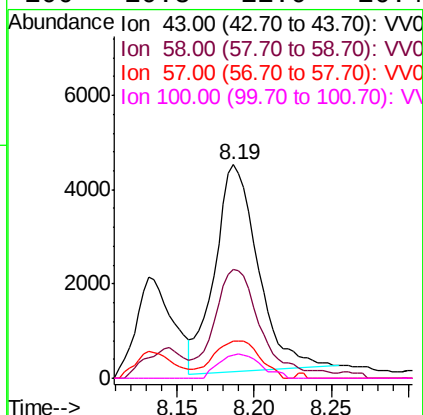
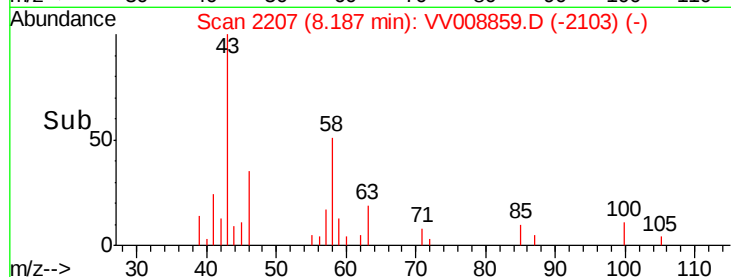
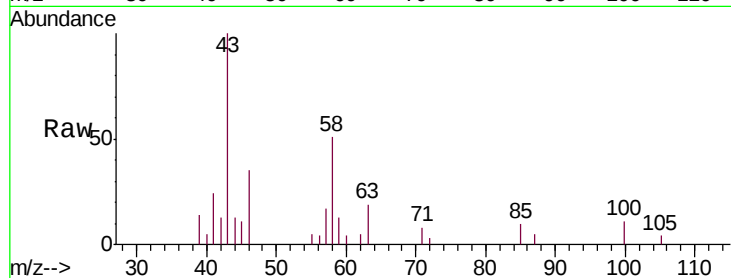




#49
2-Hexanone
Concen: 6.240 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV008859.D
Acq: 06 Dec 2018 14:18

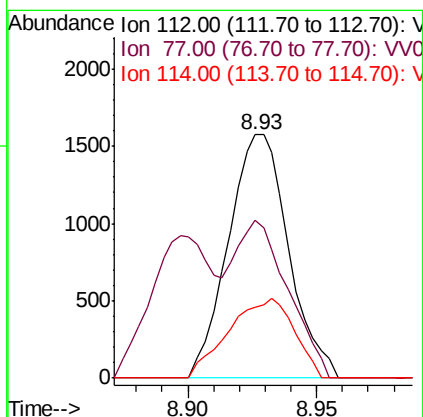
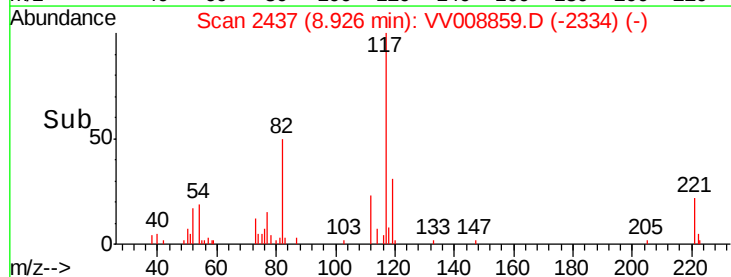
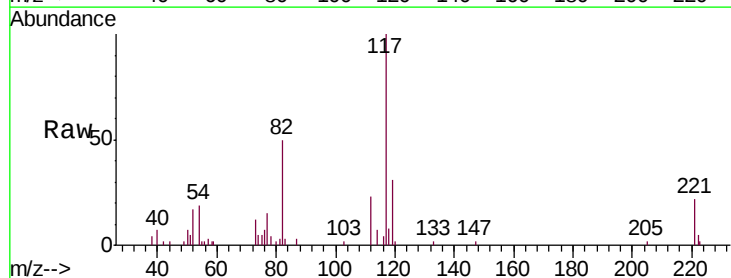
Instrument :
MSVOA_V
ClientSampled :
VBLK80

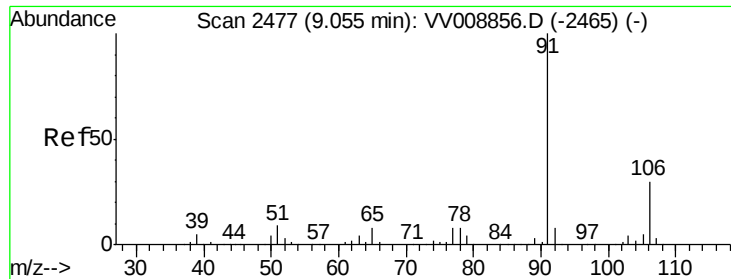
Tgt Ion: 43 Resp: 8519
Ion Ratio Lower Upper
43 100
58 48.8 43.9 65.9
57 19.4 15.7 23.5
100 10.8 11.0 16.4#



#52
Chlorobenzene
Concen: 0.356 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV008859.D
Acq: 06 Dec 2018 14:18

Tgt Ion: 112 Resp: 2565
Ion Ratio Lower Upper
112 100
77 64.6 44.6 66.8
114 28.9 22.6 42.0





#53

Ethylbenzene

Concen: 0.381 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

Instrument :

MSVOA_V

ClientSampleId :

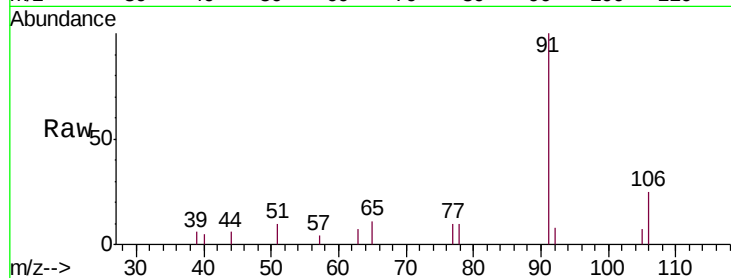
VBLK80

Tgt Ion: 91 Resp: 4717

Ion Ratio Lower Upper

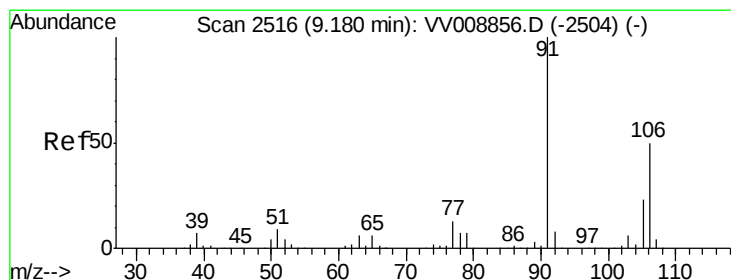
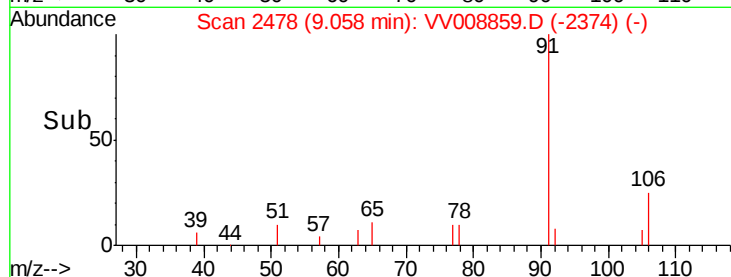
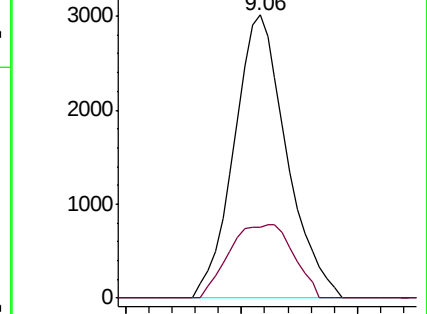
91 100

106 24.9 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV008859.D (-2478) (-)

Ion 106.00 (105.70 to 106.70): VV008859.D (-2478) (-)



#54

m,p-Xylene

Concen: 0.455 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV008859.D

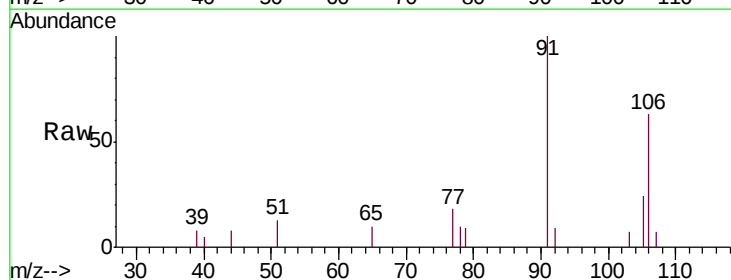
Acq: 06 Dec 2018 14:18

Tgt Ion: 106 Resp: 2142

Ion Ratio Lower Upper

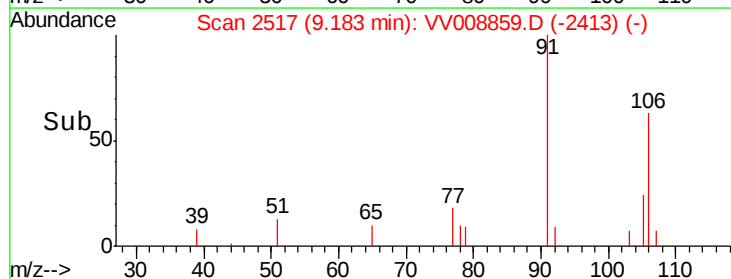
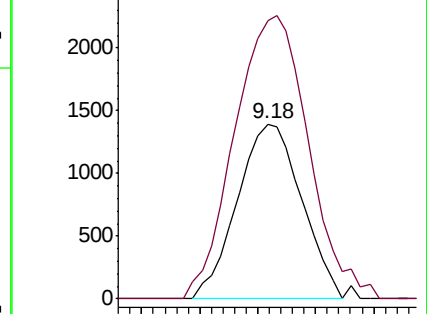
106 100

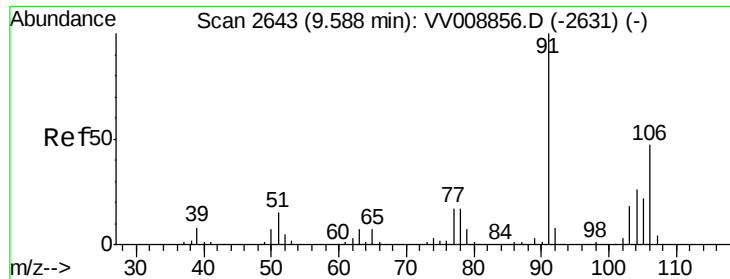
91 159.3 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): VV008859.D (-2517) (-)

Ion 91.00 (90.70 to 91.70): VV008859.D (-2517) (-)

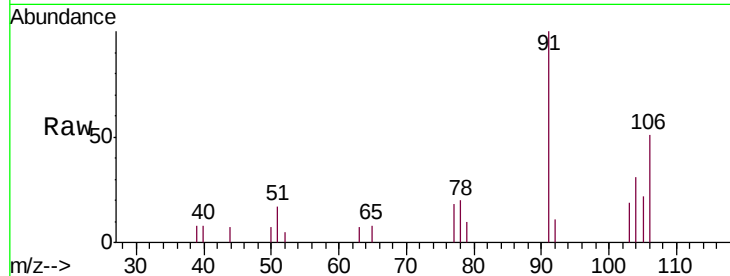




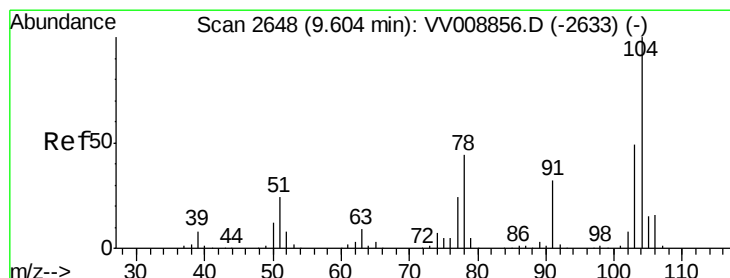
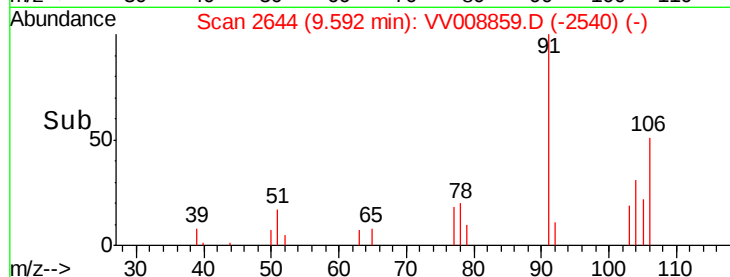
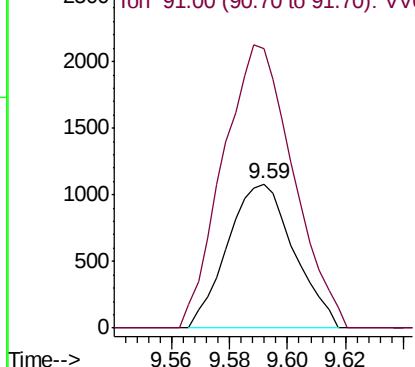
#55
o-xylene
Concen: 0.392 ug/L
RT: 9.59 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VV008859.D
Acq: 06 Dec 2018 14:18

Instrument :
MSVOA_V
ClientSampleId :
VBLK80

Tgt Ion:106 Resp: 1710
Ion Ratio Lower Upper
106 100
91 194.3 148.3 275.5

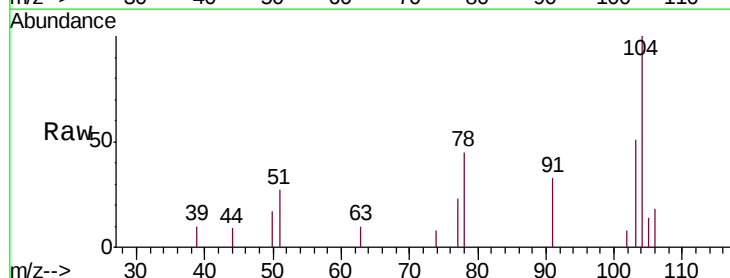


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

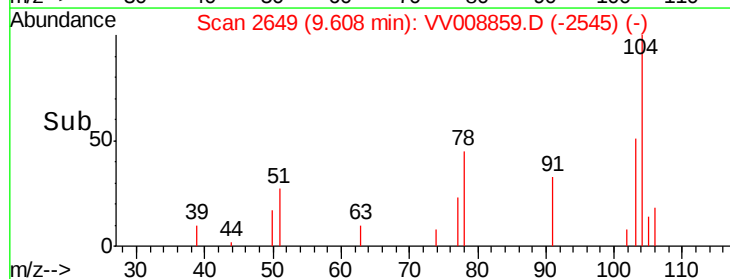
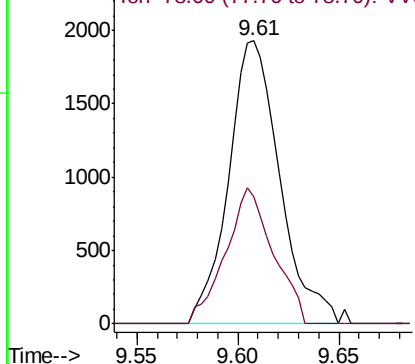


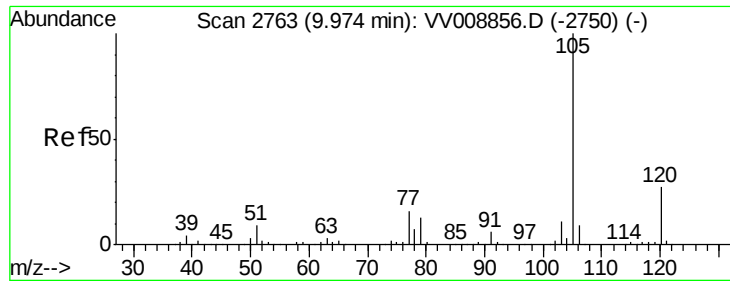
#56
Styrene
Concen: 0.474 ug/L
RT: 9.61 min Scan# 2649
Delta R.T. 0.00 min
Lab File: VV008859.D
Acq: 06 Dec 2018 14:18

Tgt Ion:104 Resp: 3431
Ion Ratio Lower Upper
104 100
78 44.9 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 0.492 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

Instrument :

MSVOA_V

ClientSampleId :

VBLK80

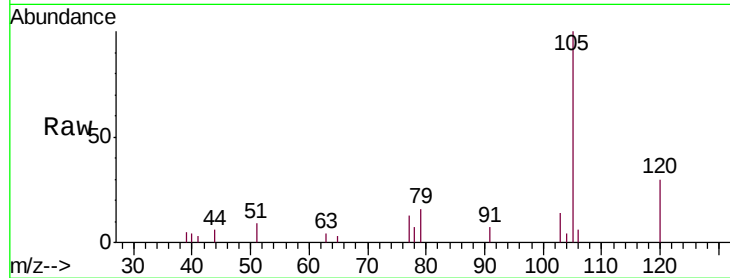
Tgt Ion:105 Resp: 5790

Ion Ratio Lower Upper

105 100

120 27.6 21.7 32.5

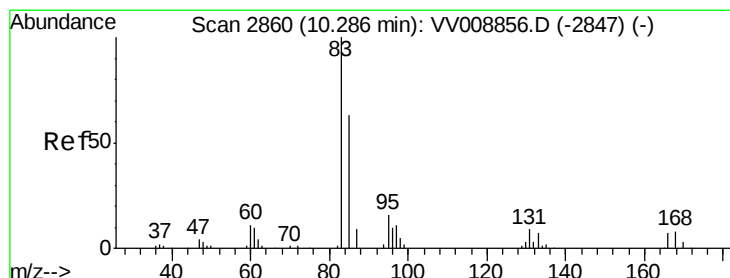
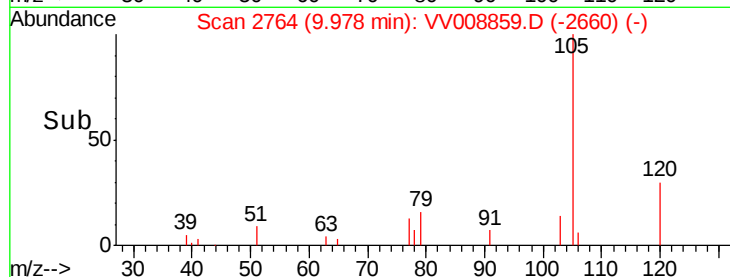
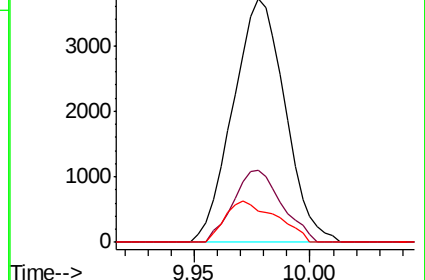
77 16.7 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.523 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

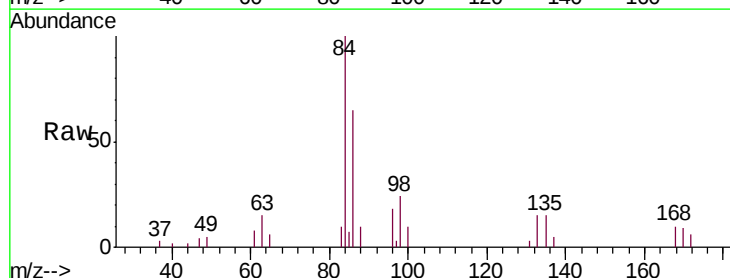
Tgt Ion: 83 Resp: 1179

Ion Ratio Lower Upper

83 100

85 69.8 44.3 82.3

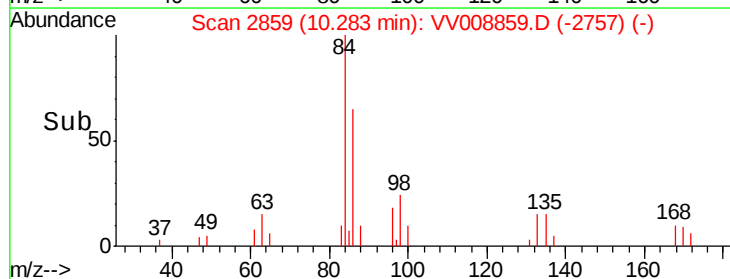
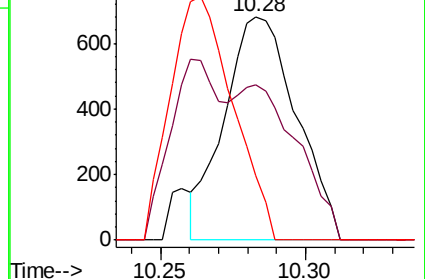
131 28.8 7.8 11.8#

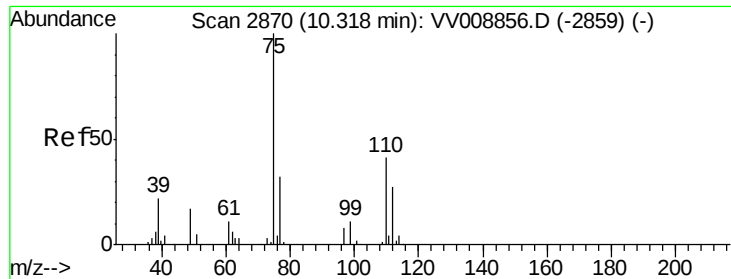


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

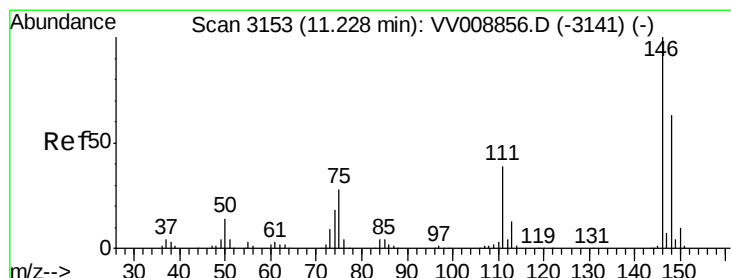
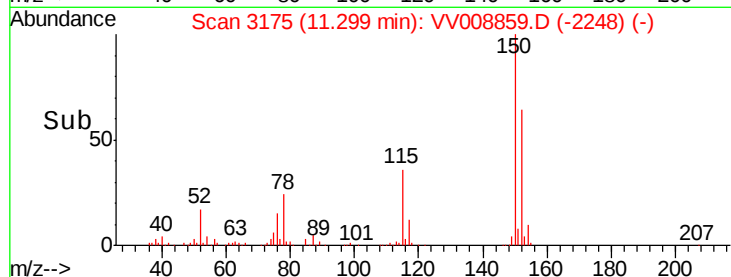
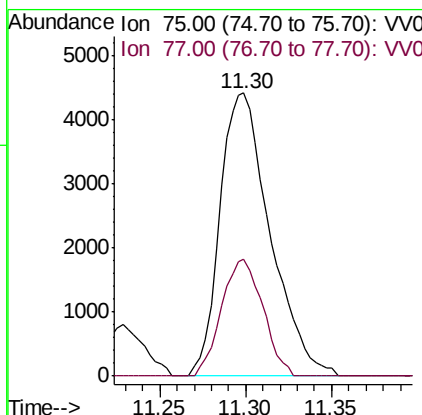
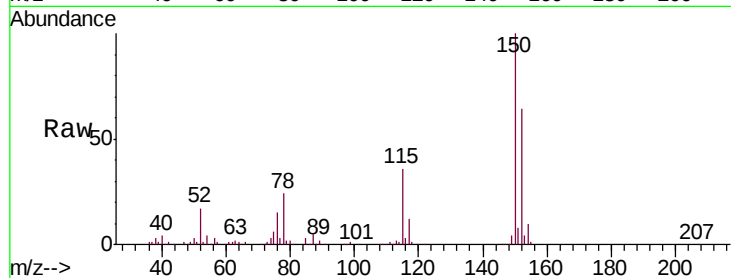




#59
 1,2,3-Trichloropropane
 Concen: 4.846 ug/L
 RT: 11.30 min Scan# 3175
 Delta R.T. 0.98 min
 Lab File: VV008859.D
 Acq: 06 Dec 2018 14:18

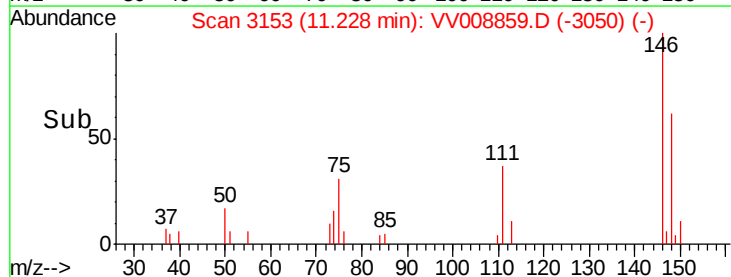
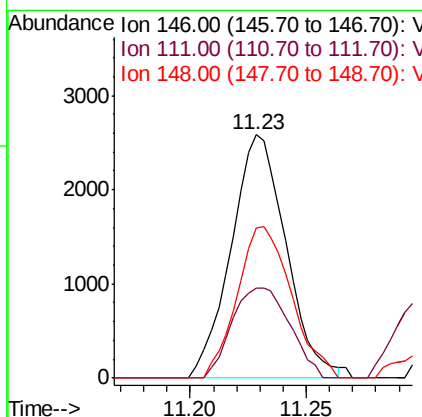
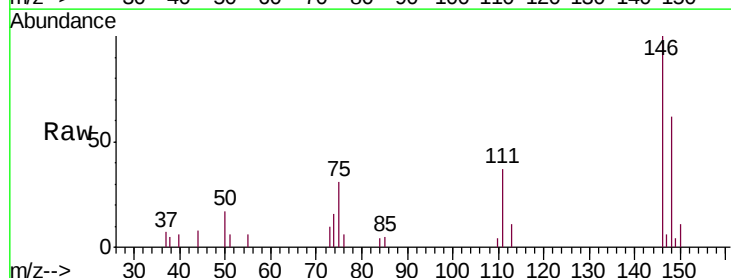
Instrument :
 MSVOA_V
 ClientSampleId :
 VBLK80

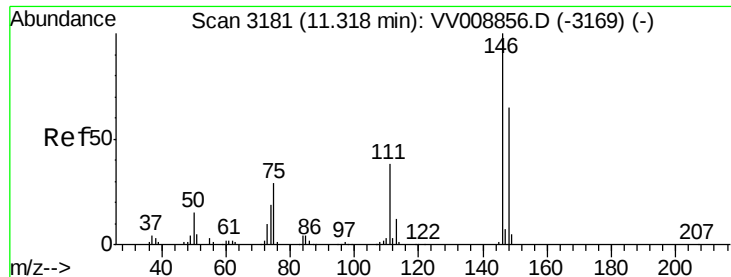
Tgt Ion: 75 Resp: 8970
 Ion Ratio Lower Upper
 75 100
 77 34.0 25.6 38.4



#63
 1,3-Dichlorobenzene
 Concen: 0.904 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV008859.D
 Acq: 06 Dec 2018 14:18

Tgt Ion: 146 Resp: 4250
 Ion Ratio Lower Upper
 146 100
 111 37.0 27.5 51.1
 148 61.8 44.0 81.8





#64

1,4-Dichlorobenzene

Concen: 1.041 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

Instrument :

MSVOA_V

ClientSampleId :

VBLK80

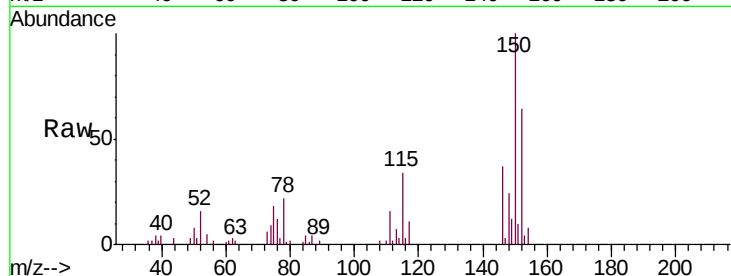
Tgt Ion:146 Resp: 4977

Ion Ratio Lower Upper

146 100

111 45.0 26.8 49.8

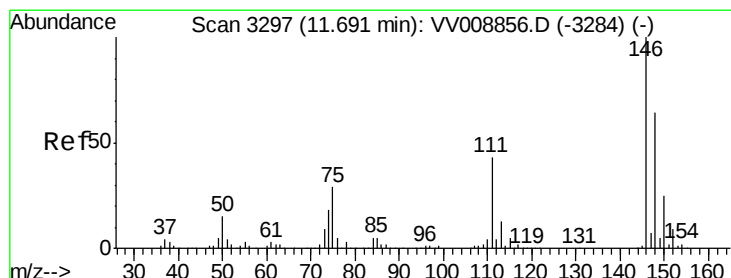
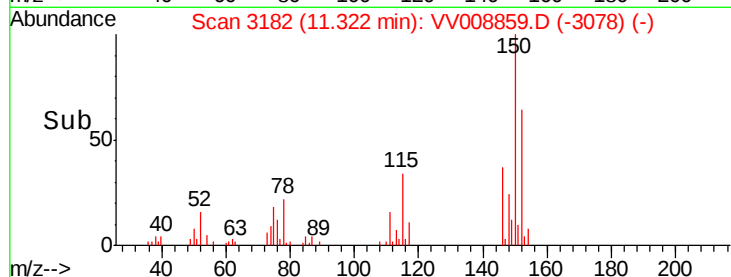
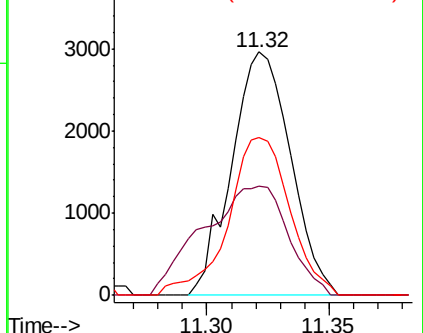
148 64.9 45.8 85.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 1.059 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

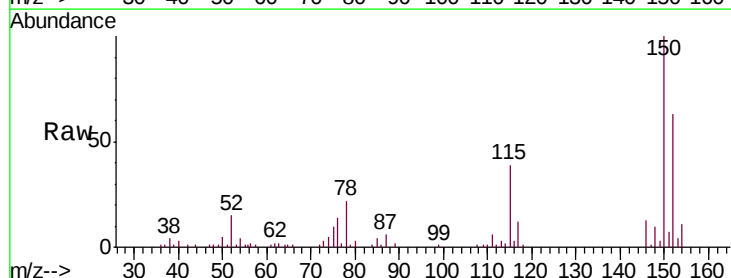
Tgt Ion:146 Resp: 4637

Ion Ratio Lower Upper

146 100

111 47.7 34.2 51.4

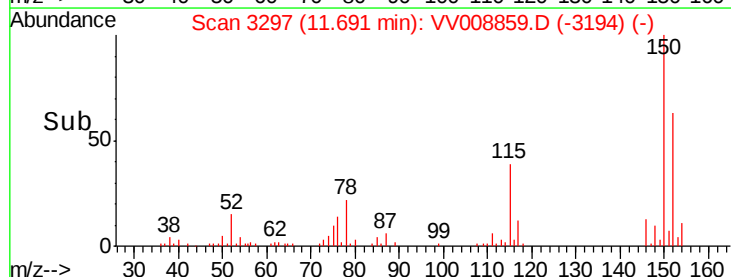
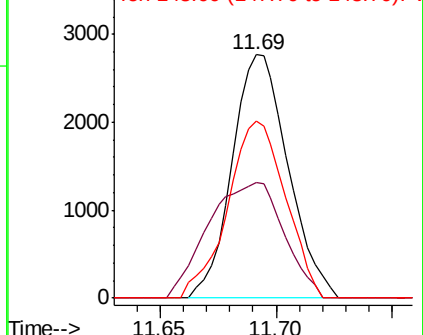
148 72.5 51.0 76.6

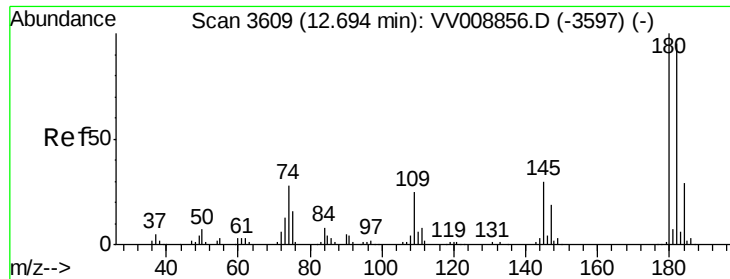


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

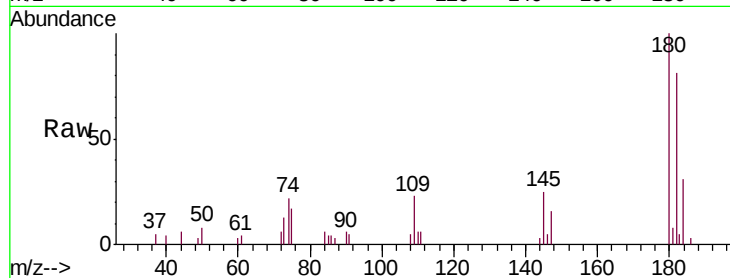




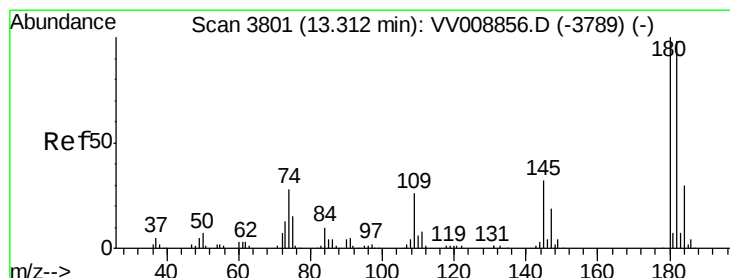
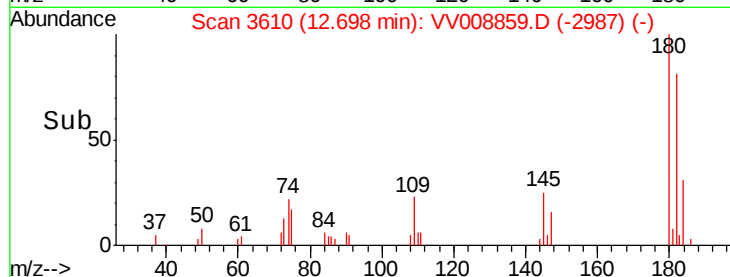
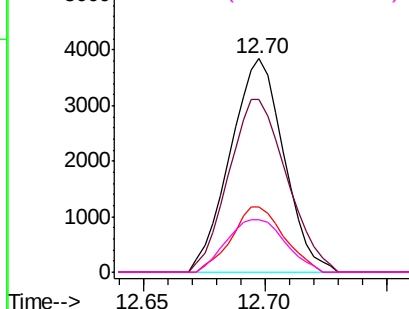
#67
 1,3,5-Trichlorobenzene
 Concen: 1.706 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV008859.D
 Acq: 06 Dec 2018 14:18

Instrument :
 MSVOA_V
 ClientSampleId :
 VBLK80

Tgt Ion:180 Resp: 5866
 Ion Ratio Lower Upper
 180 100
 182 87.8 75.9 113.9
 184 29.9 23.8 35.6
 145 27.1 24.2 36.4

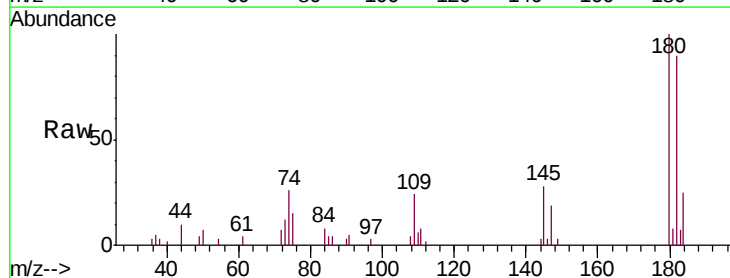


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

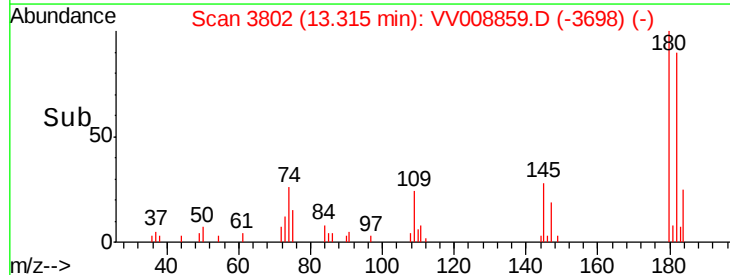
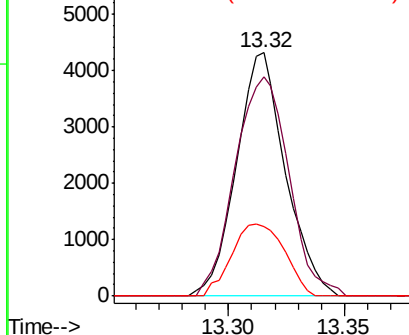


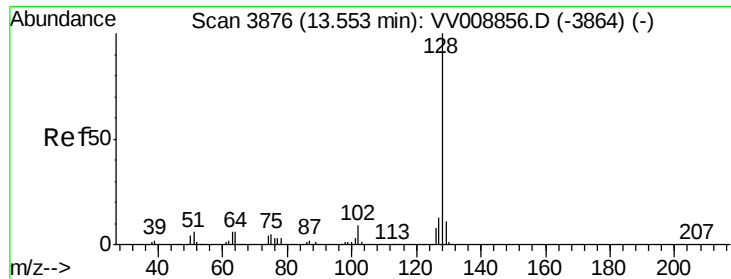
#68
 1,2,4-trichlorobenzene
 Concen: 2.623 ug/L
 RT: 13.32 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV008859.D
 Acq: 06 Dec 2018 14:18

Tgt Ion:180 Resp: 6344
 Ion Ratio Lower Upper
 180 100
 182 98.5 77.4 116.0
 145 31.8 25.6 38.4



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 4.321 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

Instrument :

MSVOA_V

ClientSampleId :

VBLK80

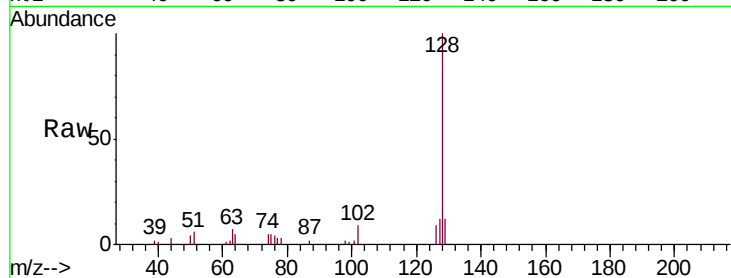
Tgt Ion:128 Resp: 16729

Ion Ratio Lower Upper

128 100

129 10.6 8.6 13.0

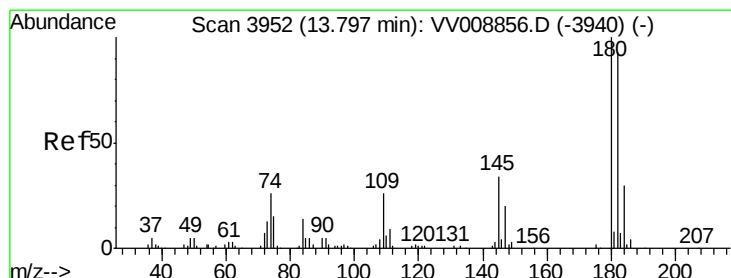
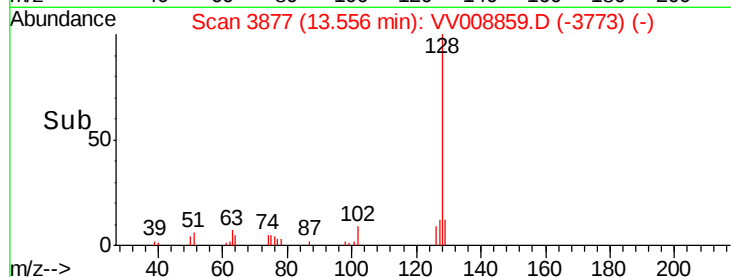
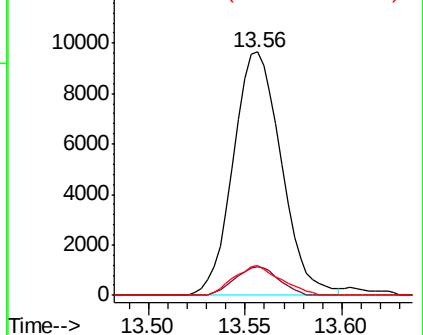
127 11.7 10.0 15.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 3.629 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV008859.D

Acq: 06 Dec 2018 14:18

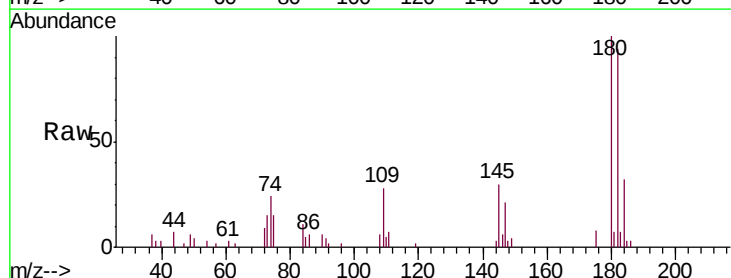
Tgt Ion:180 Resp: 8074

Ion Ratio Lower Upper

180 100

182 97.7 76.1 114.1

145 32.5 26.7 40.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

