

Data File : VV009890.D
Acq On : 26 Mar 2019 12:24
Operator : SY/MD
Sample : VSTD00561
Misc : 5.00G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Quant Time: Mar 26 14:08:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM032619S.M
Quant Title : VOC Analysis
QLast Update : Tue Mar 26 14:05:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	178715	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	170029	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	74807	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	20551	9.14	ug/L	0.00
7) Chloroethane-d5	1.57	69	25648	8.77	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	56340	9.48	ug/L	0.00
20) 2-Butanone-d5	3.95	46	3763	5.56	ug/L	0.02
24) Chloroform-d	4.40	84	24669	5.69	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	13981	5.83	ug/L	0.00
29) Benzene-d6	5.10	84	48123	5.32	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	13891	5.24	ug/L	0.00
37) Toluene-d8	7.36	98	42620	4.92	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	4626	3.49	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	4474	7.98	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	12659	4.89	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	14199	5.12	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	15817	6.992 ug/L	96
3) Chloromethane	1.25	50	22251	9.267 ug/L	93
5) Vinyl chloride	1.32	62	23407	8.774 ug/L	91
6) Bromomethane	1.53	94	27746	9.670 ug/L	99
8) Chloroethane	1.59	64	26518	11.657 ug/L	97
9) Trichlorofluoromethane	1.76	101	52032	9.672 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	30125	10.093 ug/L	98
12) 1,1-Dichloroethene	2.13	96	25449	9.916 ug/L	90
13) Acetone	2.20	43	6883	8.888 ug/L	91
14) Carbon disulfide	2.31	76	31646	4.746 ug/L	96
15) Methyl Acetate	2.46	43	6316	6.172 ug/L	96
16) Methylene chloride	2.53	84	16168	6.679 ug/L	95
17) Methyl tert-butyl Ether	2.81	73	28794	5.156 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	12878	5.773 ug/L	96
19) 1,1-Dichloroethane	3.23	63	23134	5.838 ug/L	97
21) 2-Butanone	4.05	43	6365	6.595 ug/L	82
22) cis-1,2-Dichloroethene	3.95	96	13202	5.264 ug/L	86
23) Bromochloromethane	4.30	128	5834	5.184 ug/L	90
25) Chloroform	4.43	83	23807	5.520 ug/L	100
27) 1,2-Dichloroethane	5.18	62	17187	5.761 ug/L	98
30) Cyclohexane	4.73	56	18935	4.701 ug/L	98
31) 1,1,1-Trichloroethane	4.66	97	19321	4.785 ug/L	96
32) Carbon tetrachloride	4.87	117	16598	4.819 ug/L	93
34) Benzene	5.14	78	52421	5.530 ug/L	100
35) Trichloroethene	5.96	95	15002	5.717 ug/L	92
36) Methylcyclohexane	6.17	83	20952	4.573 ug/L	98
40) 1,2-Dichloropropane	6.11	63	1741	0.739 ug/L	100
41) Bromodichloromethane	6.56	83	15411	4.601 ug/L	93
42) cis-1,3-Dichloropropene	7.07	75	17338	4.633 ug/L	88
43) 4-Methyl-2-pentanone	7.28	43	16926	10.052 ug/L	95

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Quant Title : VOC Analysis
QLast Update : Tue Mar 26 14:05:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	52683	4.969	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	13023	3.839	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	10435	5.364	ug/L	93
47) Tetrachloroethene	8.02	164	10702	5.506	ug/L	91
49) 2-Hexanone	8.19	43	10585	7.529	ug/L #	96
50) Dibromochloromethane	8.29	129	9813	4.033	ug/L	87
51) 1,2-Dibromoethane	8.40	107	9703	4.955	ug/L	99
52) Chlorobenzene	8.93	112	35499	5.169	ug/L	97
53) Ethylbenzene	9.06	91	55486	4.575	ug/L	95
54) m,p-Xylene	9.18	106	21244	4.497	ug/L	92
55) o-xylene	9.59	106	19559	4.367	ug/L	98
56) Styrene	9.60	104	31689	4.218	ug/L	99
57) Isopropylbenzene	9.98	105	49867	4.075	ug/L	97
58) 1,1,2,2-Tetrachloroethane	10.29	83	12524	4.734	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	9355	4.965	ug/L	95
62) Bromoform	9.77	173	4502	3.352	ug/L #	88
63) 1,3-Dichlorobenzene	11.23	146	24801	5.165	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	26940	5.621	ug/L	100
65) 1,2-Dichlorobenzene	11.69	146	23120	5.124	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.48	75	1420	3.188	ug/L #	89
67) 1,3,5-Trichlorobenzene	12.69	180	16760	4.943	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	12140	4.612	ug/L	95
69) Naphthalene	13.55	128	16402	3.077	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	12279	5.032	ug/L	91

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

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ALS Vial      : 1      Sample Multiplier: 1
```

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

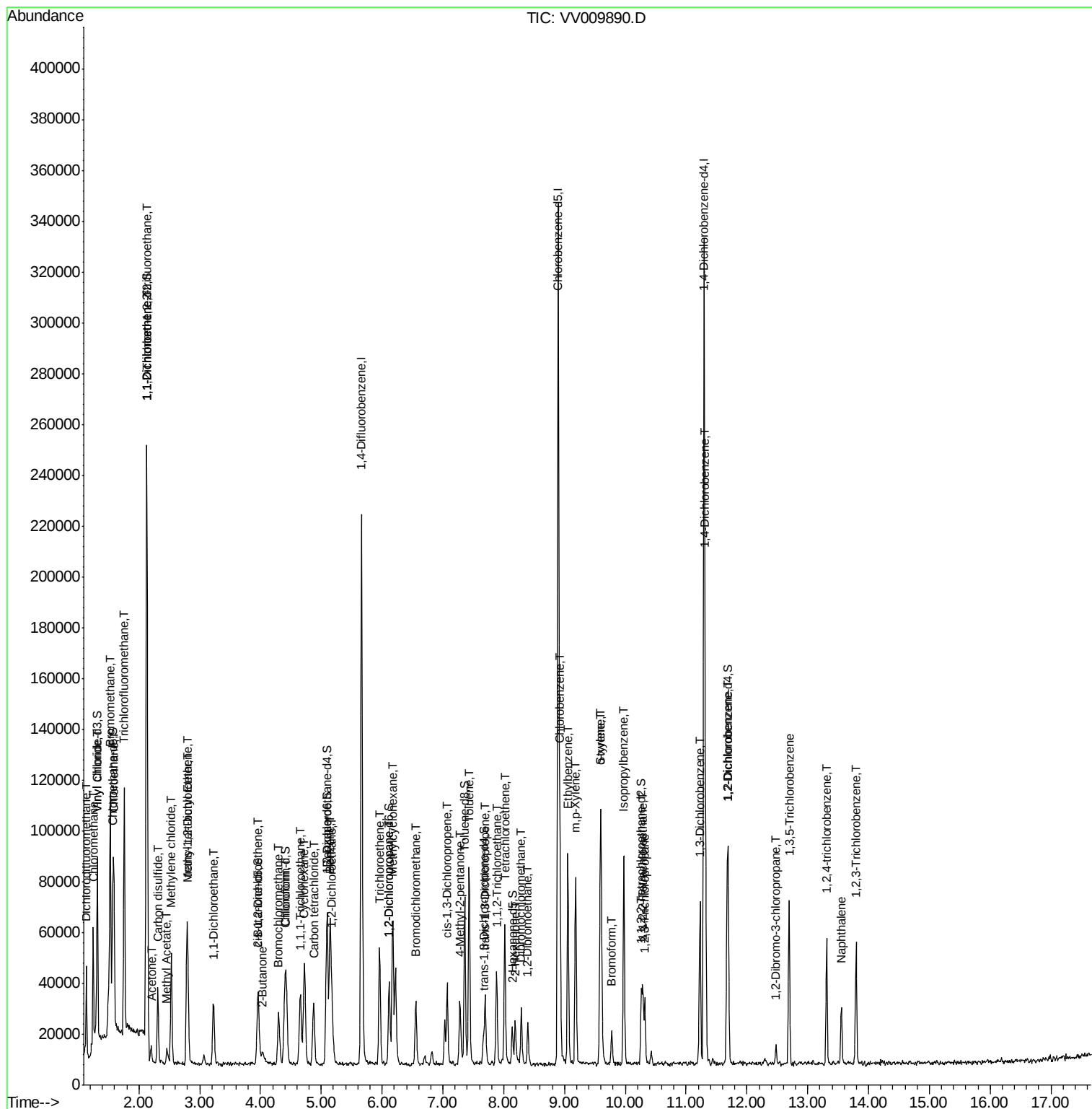
Quant Time: Mar 26 14:08:44 2019

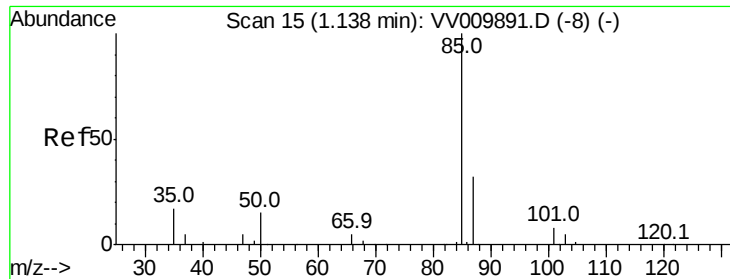
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM032619S.M

Quant Title : VOC Analysis

QLast Update : Tue Mar 26 14:05:09 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 6.992 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

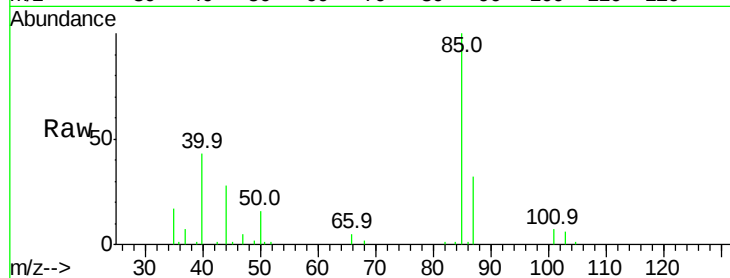
VSTD00561

Tgt Ion: 85 Resp: 15817

Ion Ratio Lower Upper

85 100

87 33.8 22.2 41.2



Abundance Ion 85.00 (84.70 to 85.70): VV009890.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV009890.D (-8) (-)

1.14

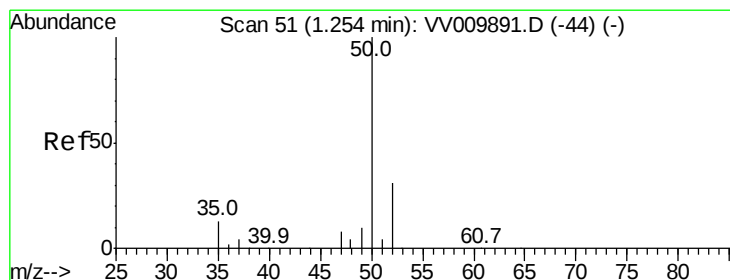
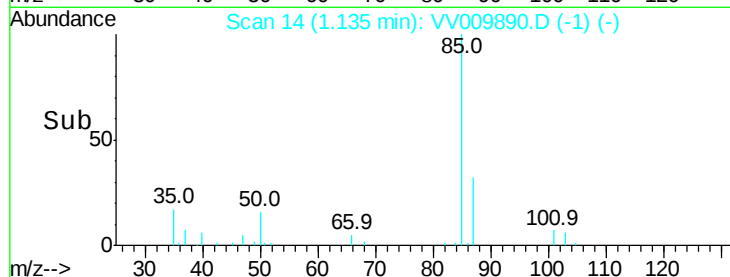
15000

10000

5000

0

Time-->



#3

Chloromethane

Concen: 9.267 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.01 min

Lab File: VV009890.D

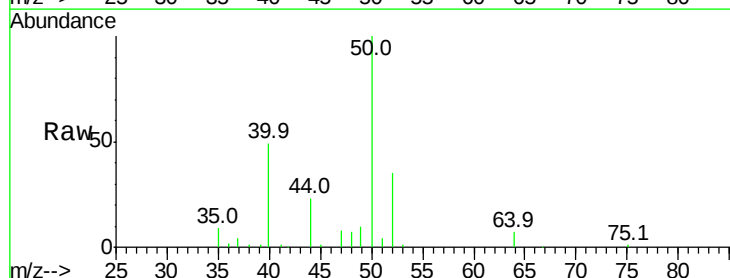
Acq: 26 Mar 2019 12:24

Tgt Ion: 50 Resp: 22251

Ion Ratio Lower Upper

50 100

52 35.1 21.8 40.6



Abundance Ion 50.00 (49.70 to 50.70): VV009890.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV009890.D (-44) (-)

1.25

25000

20000

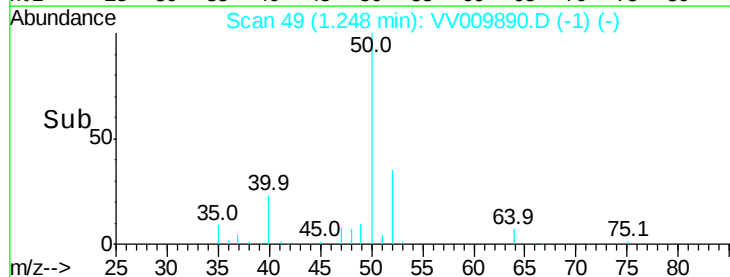
15000

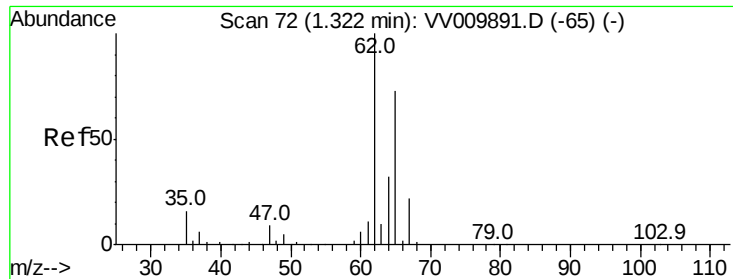
10000

5000

0

Time-->





#5

Vinyl chloride

Concen: 8.774 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

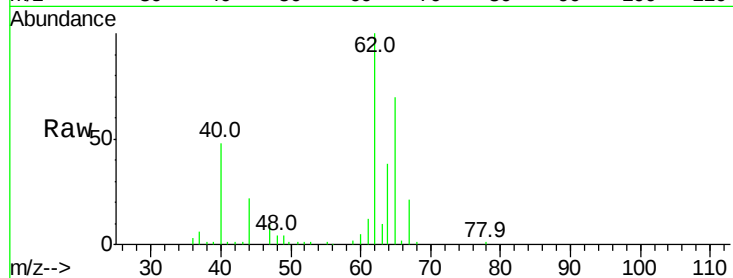
VSTD00561

Tgt Ion: 62 Resp: 23407

Ion Ratio Lower Upper

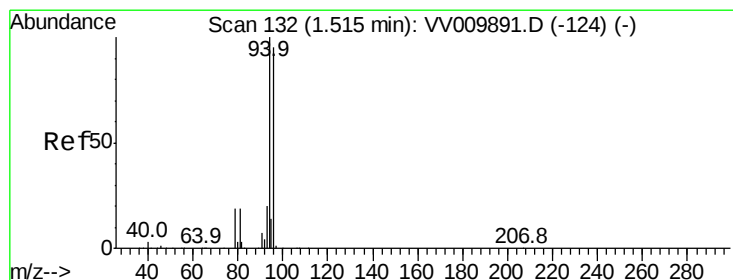
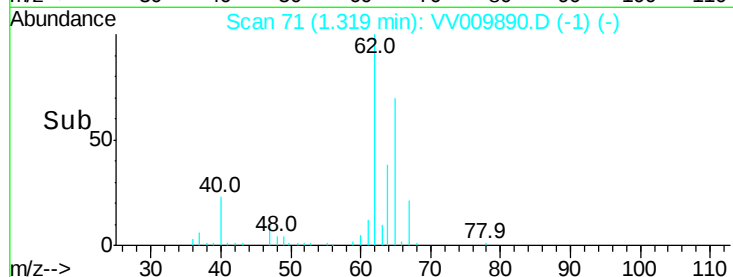
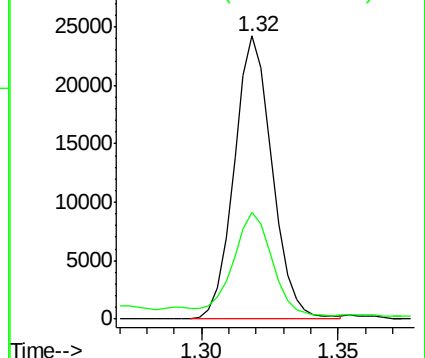
62 100

64 37.6 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 9.670 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.01 min

Lab File: VV009890.D

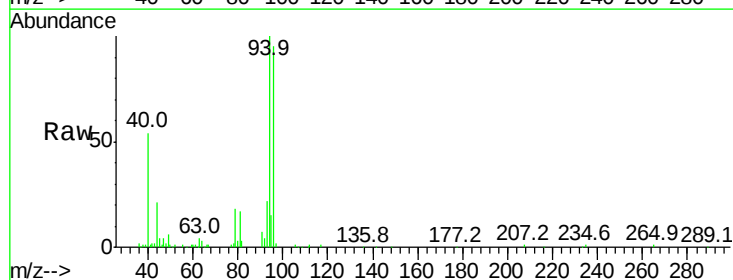
Acq: 26 Mar 2019 12:24

Tgt Ion: 94 Resp: 27746

Ion Ratio Lower Upper

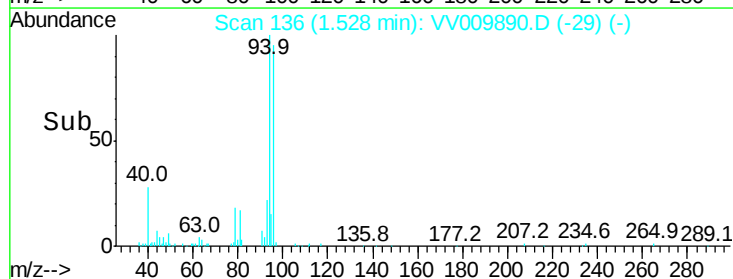
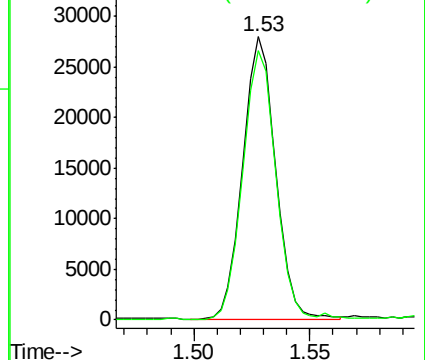
94 100

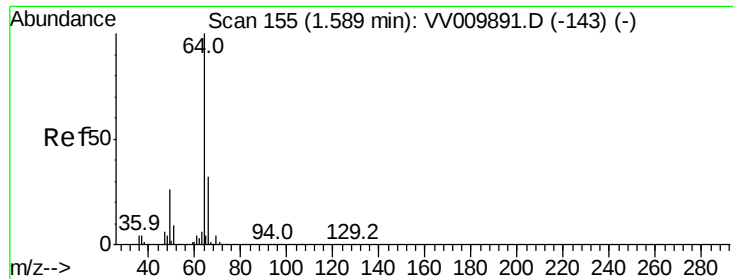
96 95.1 9.4 179.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

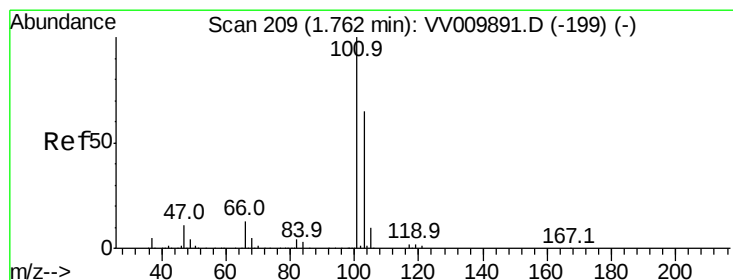
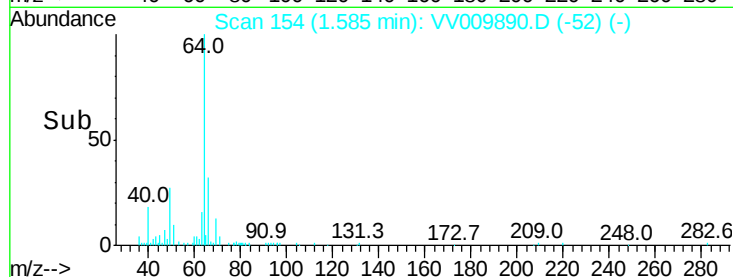
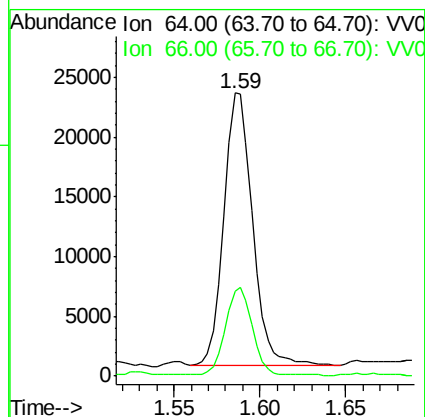
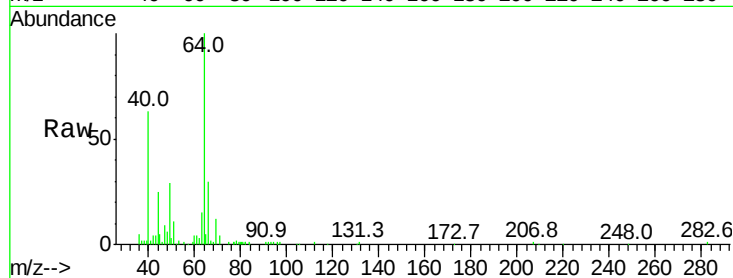




#8
Chloroethane
Concen: 11.657 ug/L
RT: 1.59 min Scan# 154
Delta R.T. -0.00 min
Lab File: VV009890.D
Acq: 26 Mar 2019 12:24

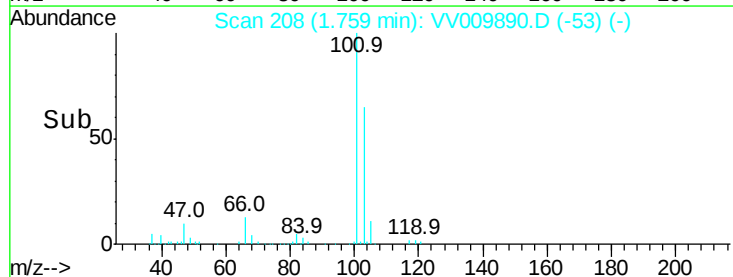
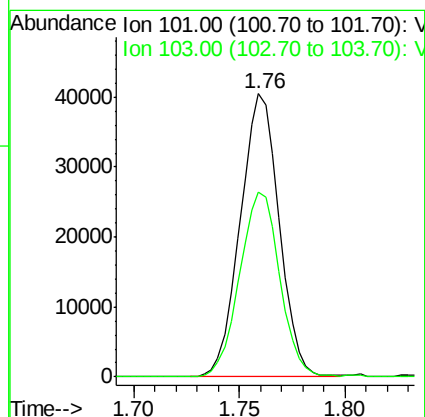
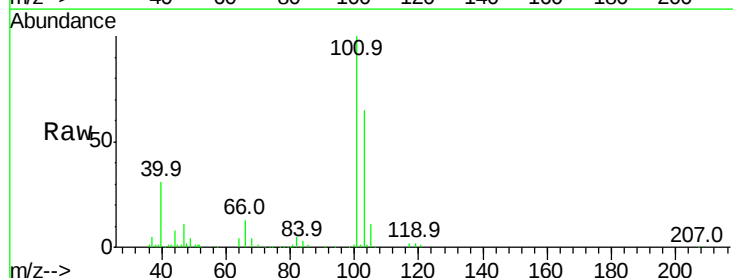
Instrument :
MSVOA_V
ClientSampled :
VSTD00561

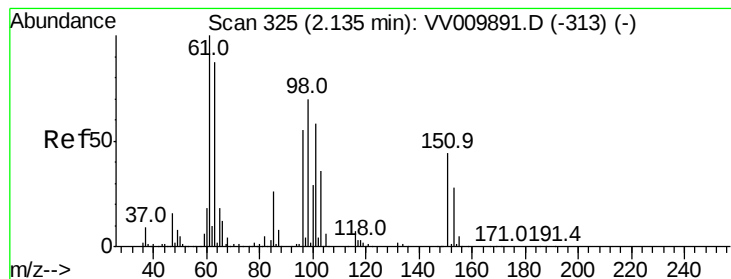
Tgt Ion: 64 Resp: 26518
Ion Ratio Lower Upper
64 100
66 30.0 22.3 41.5



#9
Trichlorofluoromethane
Concen: 9.672 ug/L
RT: 1.76 min Scan# 208
Delta R.T. -0.00 min
Lab File: VV009890.D
Acq: 26 Mar 2019 12:24

Tgt Ion: 101 Resp: 52032
Ion Ratio Lower Upper
101 100
103 67.0 45.1 83.9





#11

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

Concen: 10.093 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

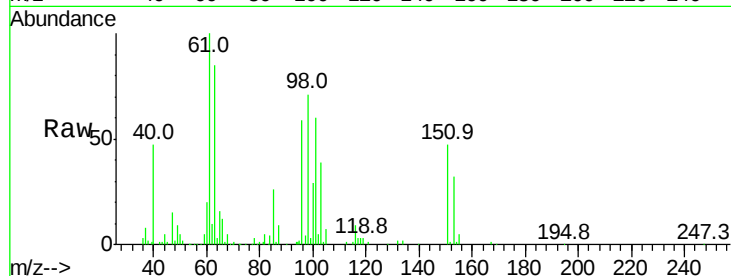
Tgt Ion: 101 Resp: 30125

Ion Ratio Lower Upper

101 100

85 43.9 36.9 55.3

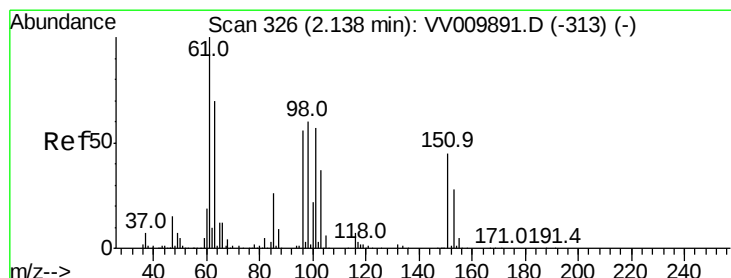
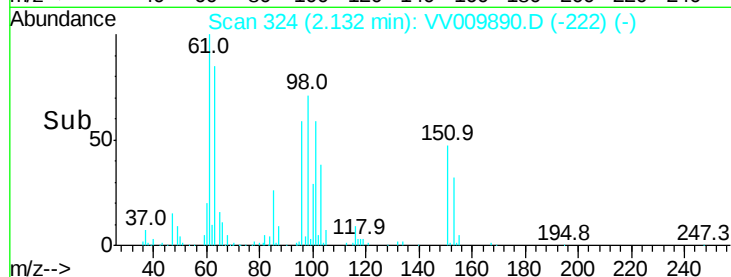
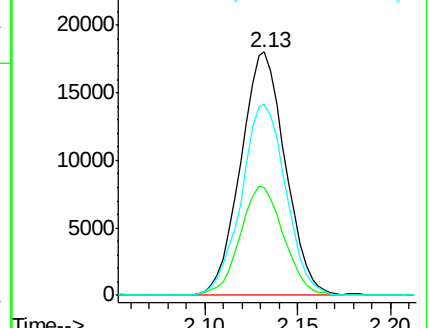
151 78.2 63.6 95.4



Abundance Ion 101.00 (100.70 to 101.70): VV009890.D (-222) (-)

Ion 85.00 (84.70 to 85.70): VV009890.D (-222) (-)

Ion 151.00 (150.70 to 151.70): VV009890.D (-222) (-)



#12

1,1-Dichloroethene

Concen: 9.916 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.01 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

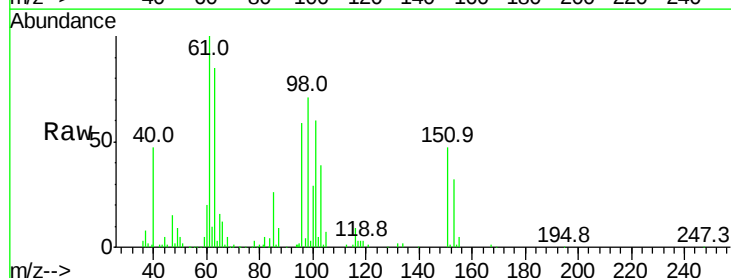
Tgt Ion: 96 Resp: 25449

Ion Ratio Lower Upper

96 100

61 170.1 124.3 230.8

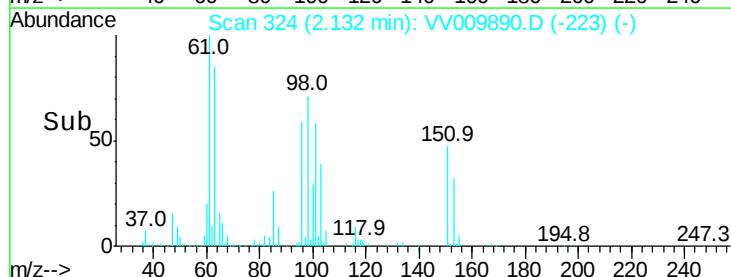
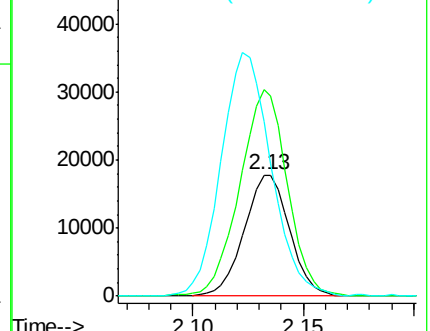
63 144.4 88.2 163.8

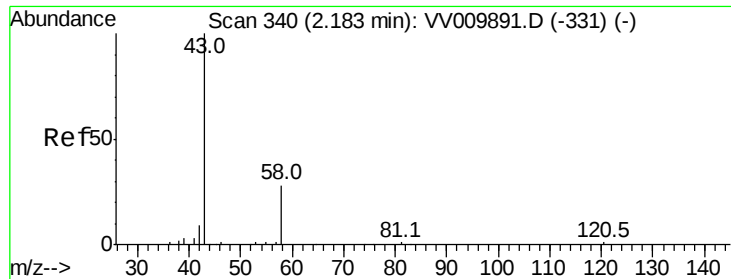


Abundance Ion 96.00 (95.70 to 96.70): VV009890.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV009890.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV009890.D (-223) (-)





#13

Acetone

Concen: 8.888 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.02 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

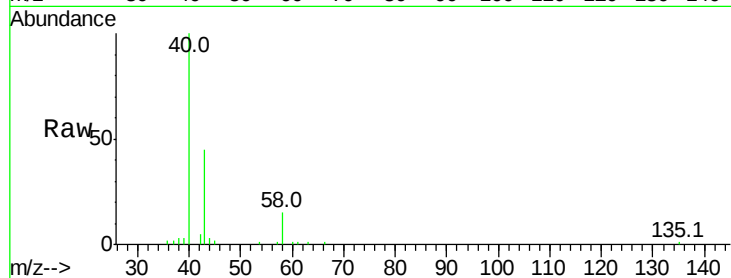
VSTD00561

Tgt Ion: 43 Resp: 6883

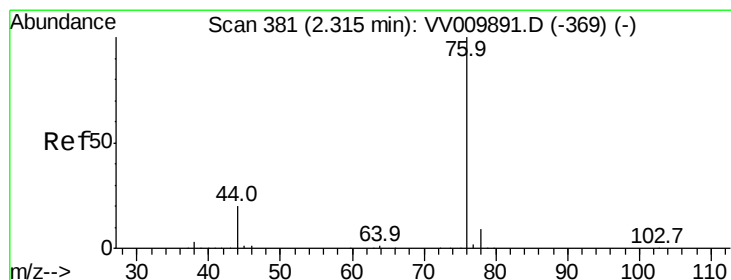
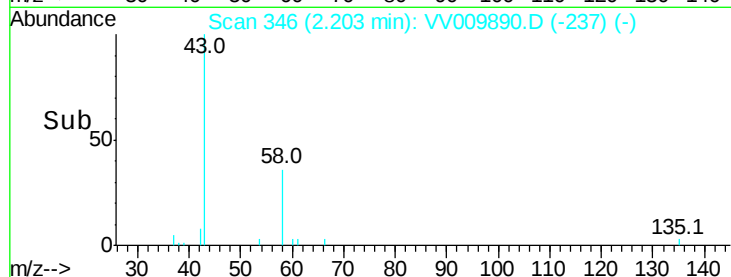
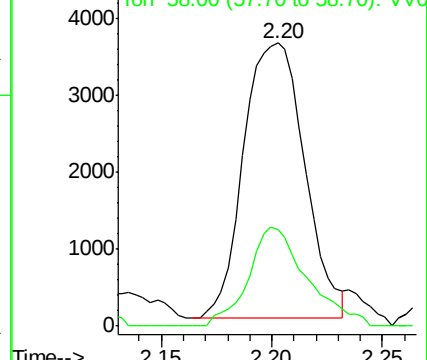
Ion Ratio Lower Upper

43 100

58 34.6 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VV009890.D (-346) (-)



#14

Carbon disulfide

Concen: 4.746 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV009890.D

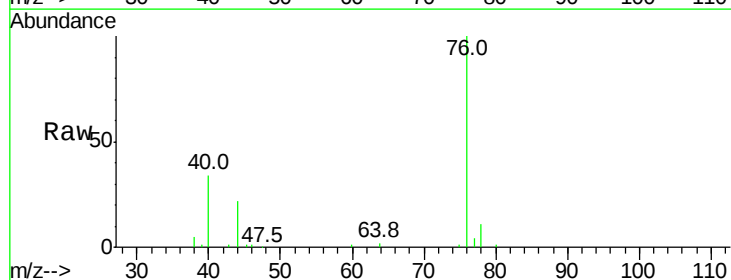
Acq: 26 Mar 2019 12:24

Tgt Ion: 76 Resp: 31646

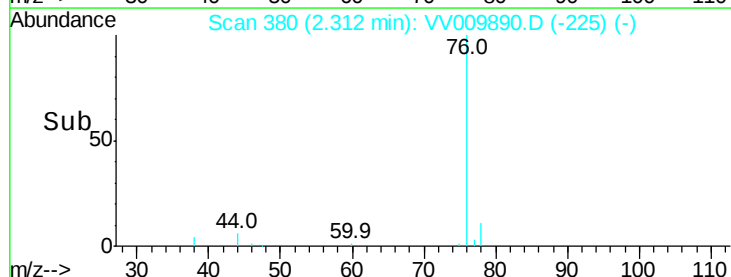
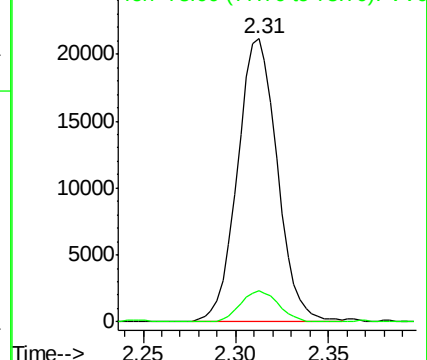
Ion Ratio Lower Upper

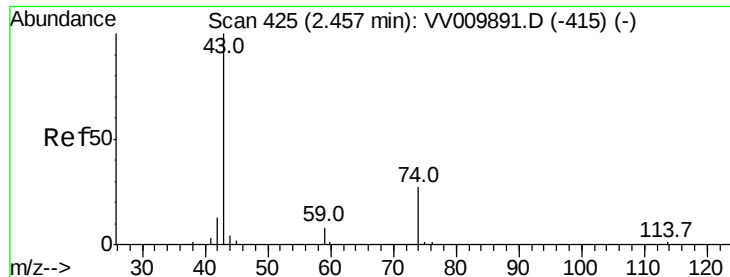
76 100

78 10.8 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VV009890.D (-380) (-)





#15

Methyl Acetate

Concen: 6.172 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.01 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

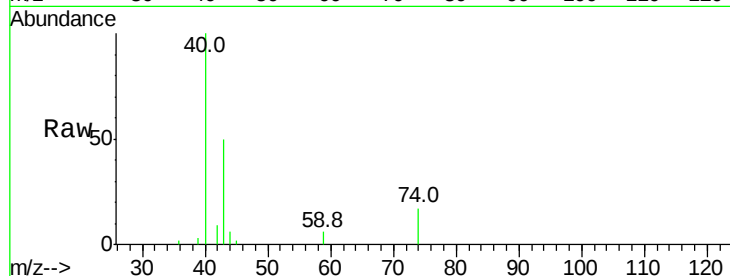
VSTD00561

Tgt Ion: 43 Resp: 6316

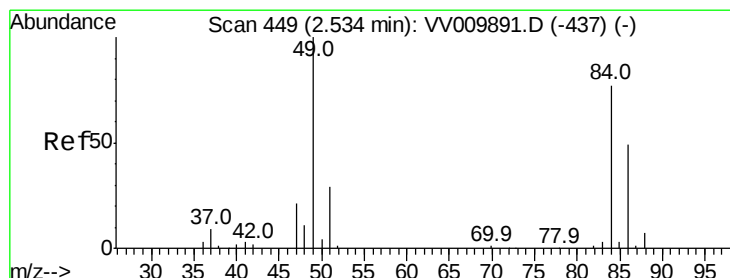
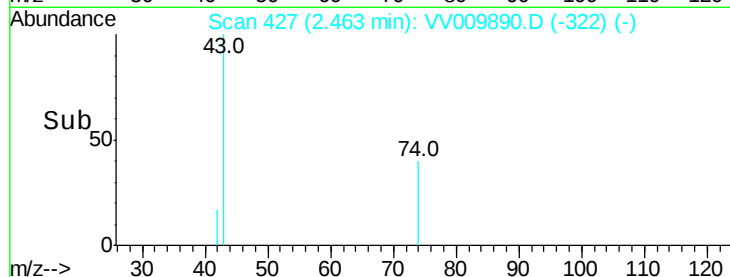
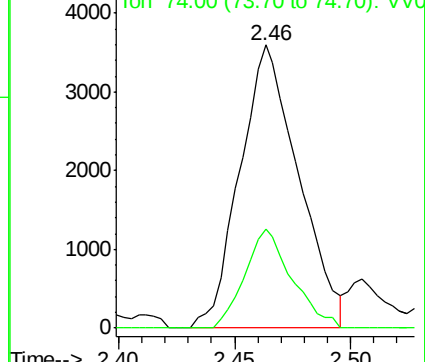
Ion Ratio Lower Upper

43 100

74 28.1 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VV009890.D (-322) (-)



#16

Methylene chloride

Concen: 6.679 ug/L

RT: 2.53 min Scan# 448

Delta R.T. -0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

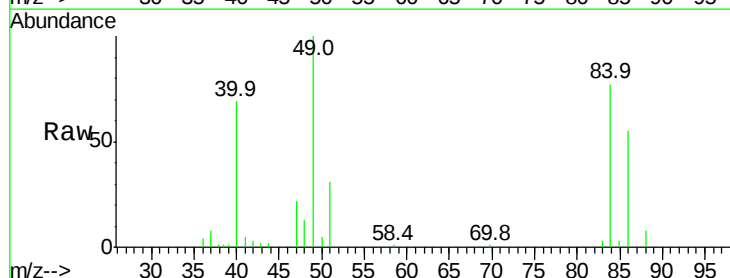
Tgt Ion: 84 Resp: 16168

Ion Ratio Lower Upper

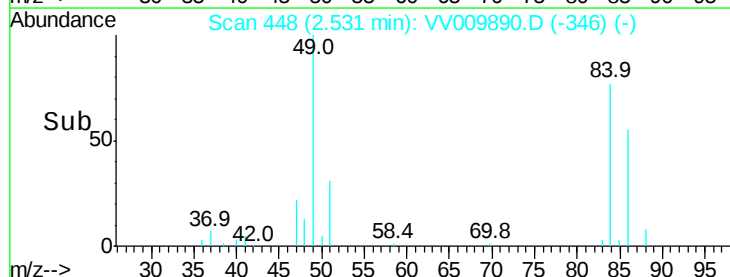
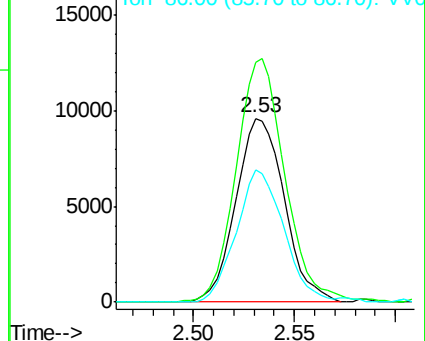
84 100

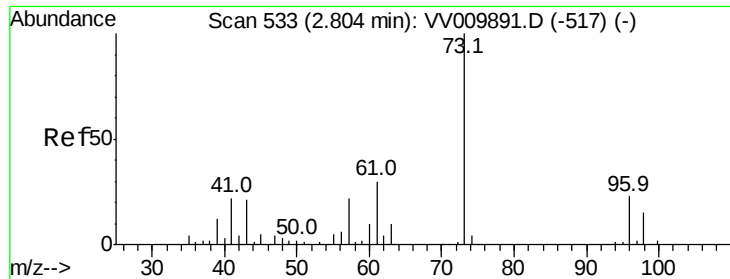
49 130.6 90.4 167.8

86 72.1 44.0 81.6



Abundance Ion 84.00 (83.70 to 84.70): VV009890.D (-346) (-)

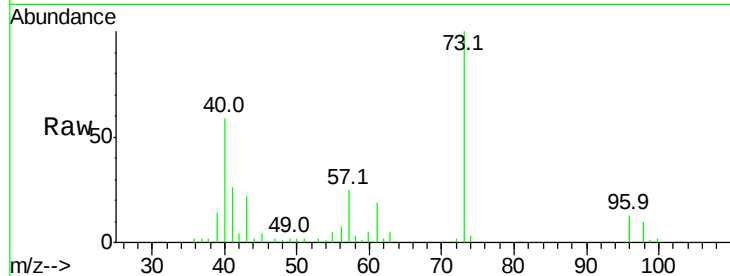




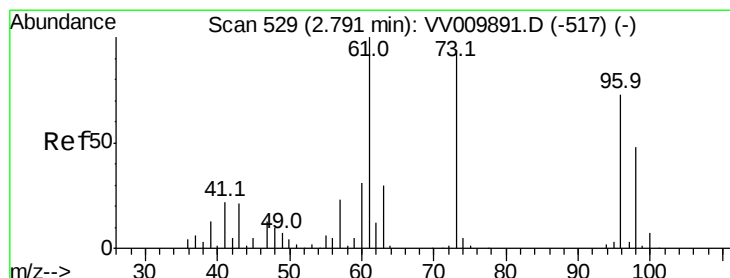
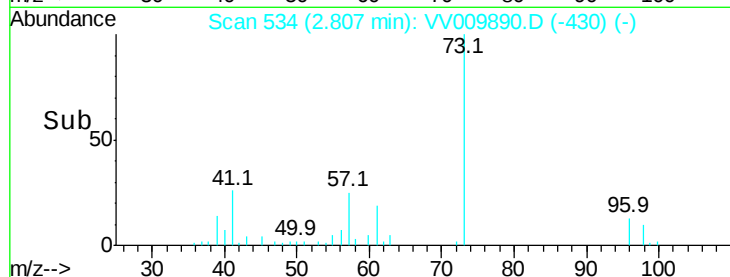
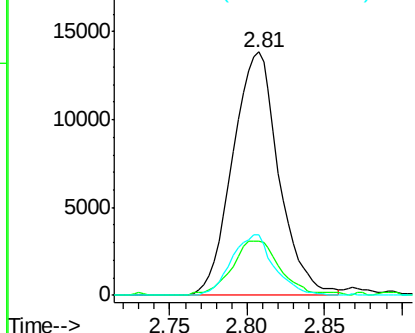
#17
Methyl tert-butyl Ether
Concen: 5.156 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV009890.D
Acq: 26 Mar 2019 12:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

Tgt Ion: 73 Resp: 28794
Ion Ratio Lower Upper
73 100
43 23.1 17.0 25.6
57 22.9 18.0 27.0

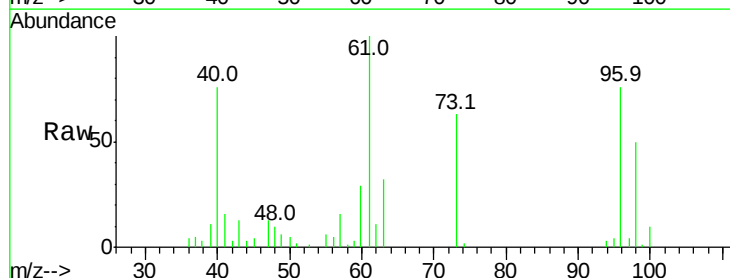


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

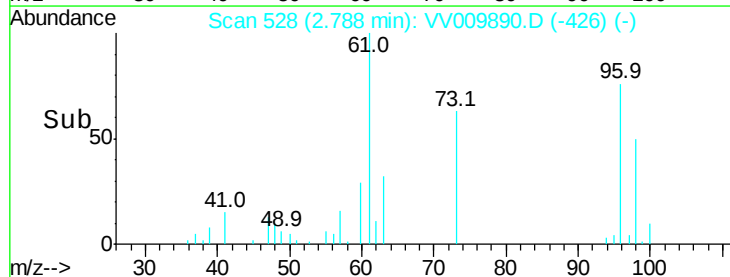
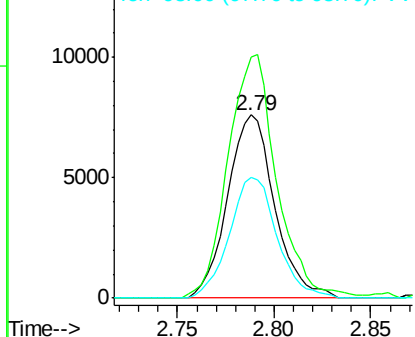


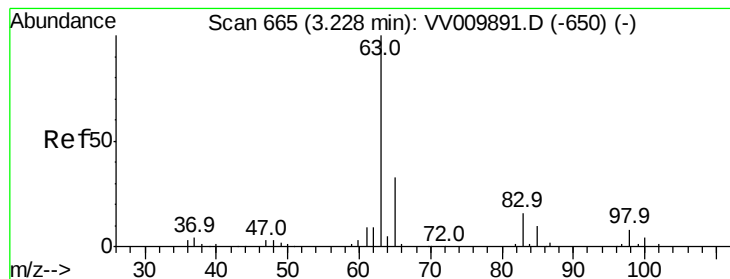
#18
trans-1,2-Dichloroethene
Concen: 5.773 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV009890.D
Acq: 26 Mar 2019 12:24

Tgt Ion: 96 Resp: 12878
Ion Ratio Lower Upper
96 100
61 131.9 96.8 179.8
98 65.9 46.1 85.7



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 5.838 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

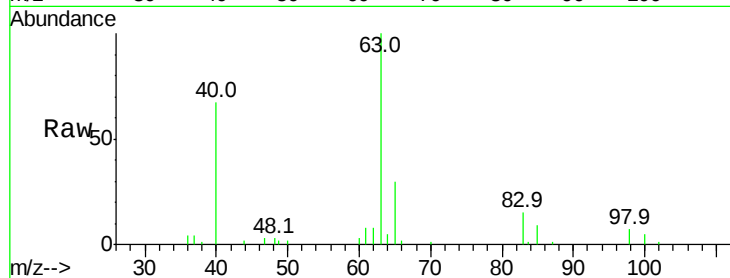
Tgt Ion: 63 Resp: 23134

Ion Ratio Lower Upper

63 100

65 30.2 23.2 43.0

83 16.2 11.3 21.1

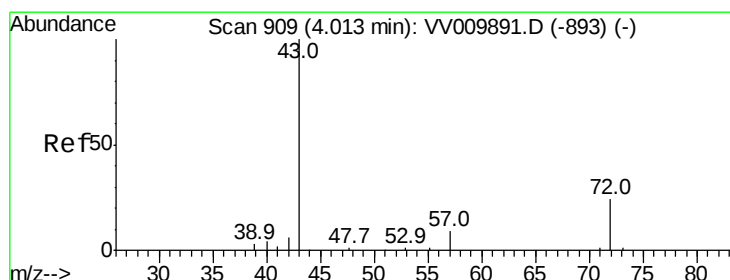
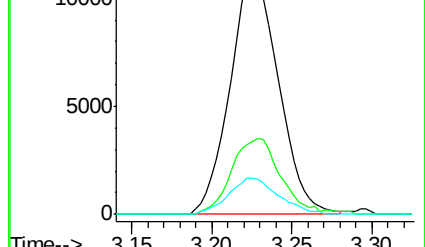
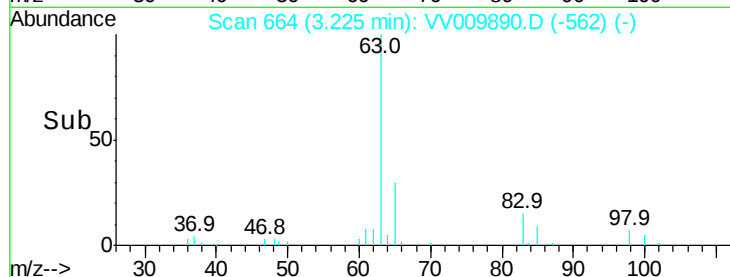


Abundance Ion 63.00 (62.70 to 63.70): VV009890.D (-650) (-)

Ion 65.00 (64.70 to 65.70): VV009890.D (-650) (-)

Ion 83.00 (82.70 to 83.70): VV009890.D (-650) (-)

Time-->



#21

2-Butanone

Concen: 6.595 ug/L

RT: 4.05 min Scan# 920

Delta R.T. 0.04 min

Lab File: VV009890.D

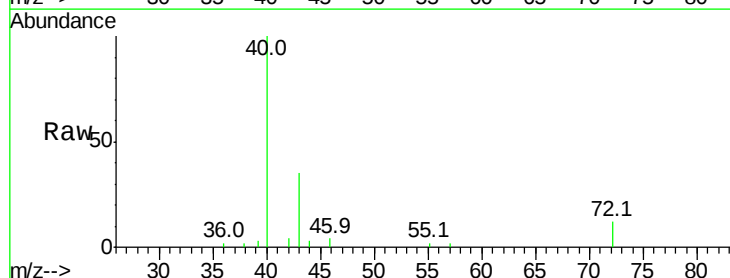
Acq: 26 Mar 2019 12:24

Tgt Ion: 43 Resp: 6365

Ion Ratio Lower Upper

43 100

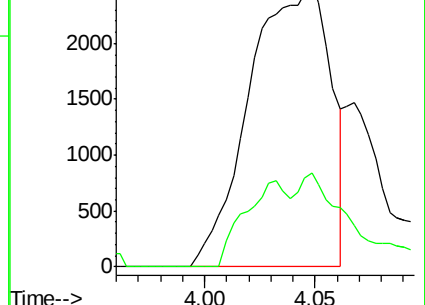
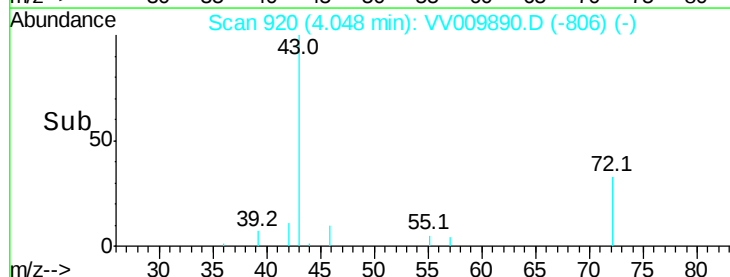
72 13.4 11.1 33.1

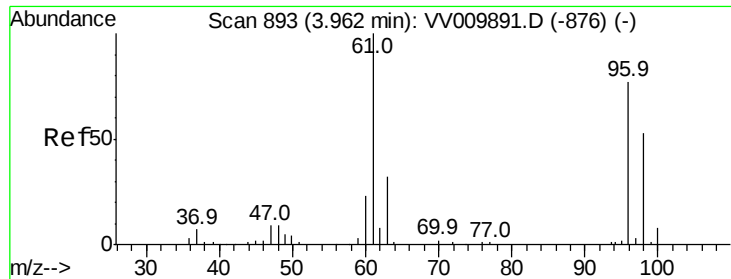


Abundance Ion 43.00 (42.70 to 43.70): VV009890.D (-806) (-)

Ion 72.00 (71.70 to 72.70): VV009890.D (-806) (-)

Time-->



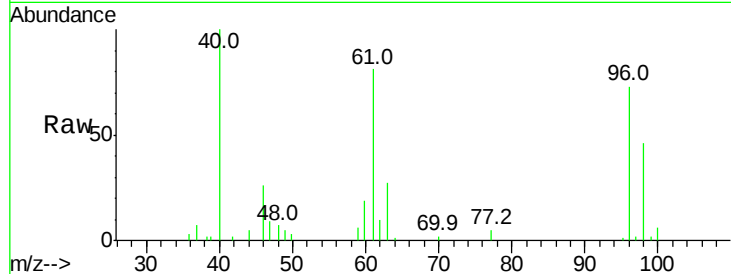


#22

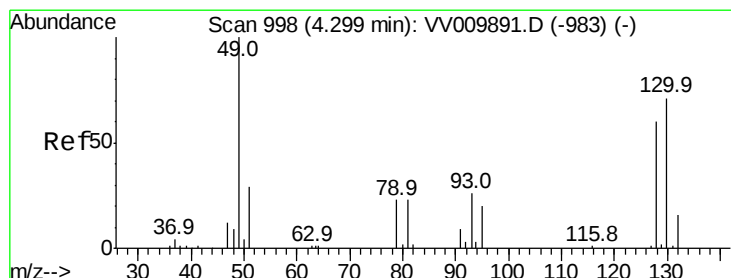
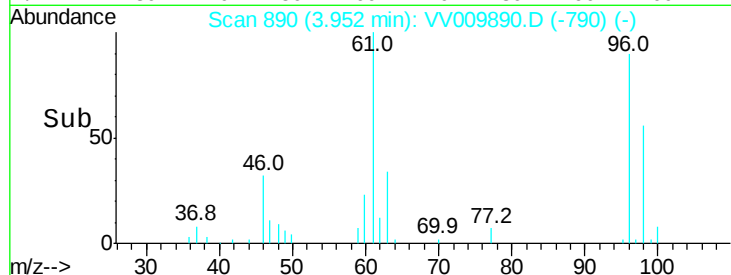
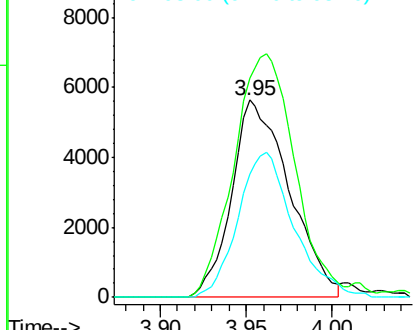
cis-1,2-Dichloroethene
 Concen: 5.264 ug/L
 RT: 3.95 min Scan# 890
 Delta R.T. -0.01 min
 Lab File: VV009890.D
 Acq: 26 Mar 2019 12:24

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00561

Tgt Ion: 96 Resp: 13202
 Ion Ratio Lower Upper
 96 100
 61 111.0 91.4 169.8
 98 62.4 48.0 89.2



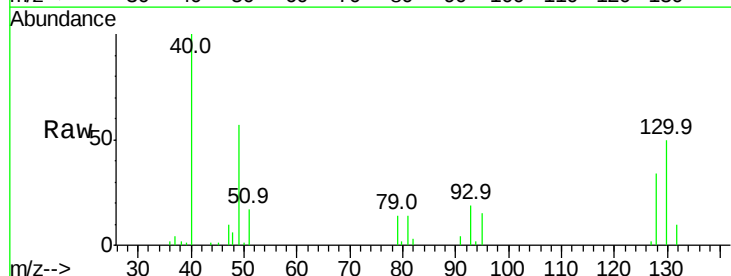
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



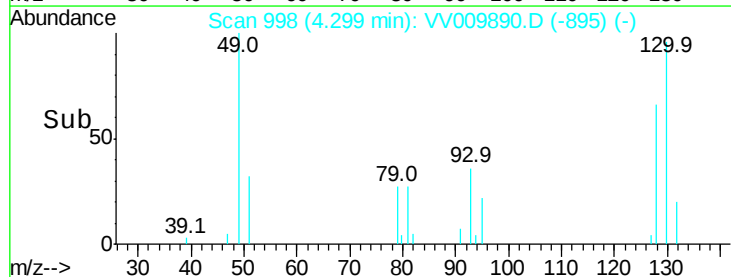
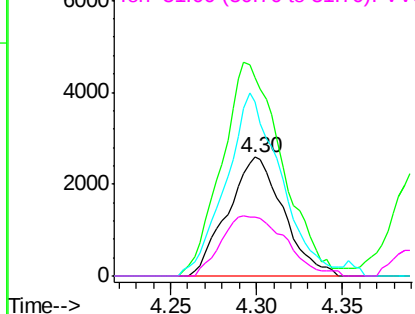
#23

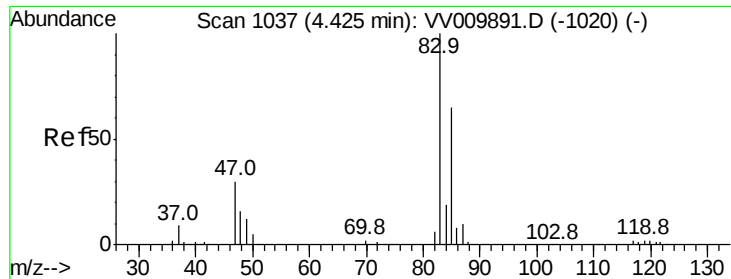
Bromochloromethane
 Concen: 5.184 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: VV009890.D
 Acq: 26 Mar 2019 12:24

Tgt Ion: 128 Resp: 5834
 Ion Ratio Lower Upper
 128 100
 49 166.6 118.2 219.6
 130 146.6 83.4 154.8
 51 49.1 39.4 59.2



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VV0
 Ion 130.00 (129.70 to 130.70): V
 Ion 51.00 (50.70 to 51.70): VV0

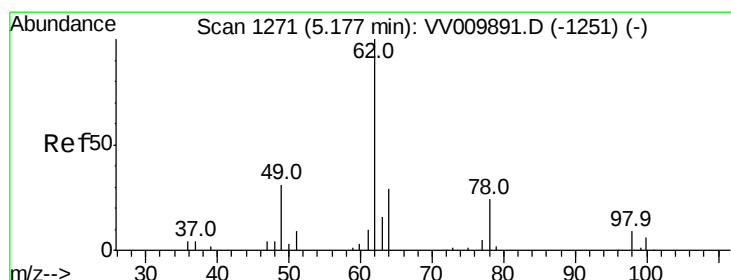
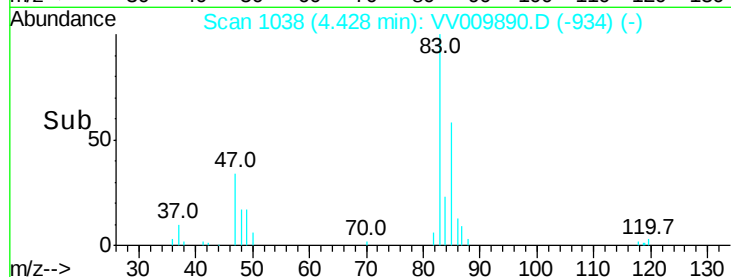
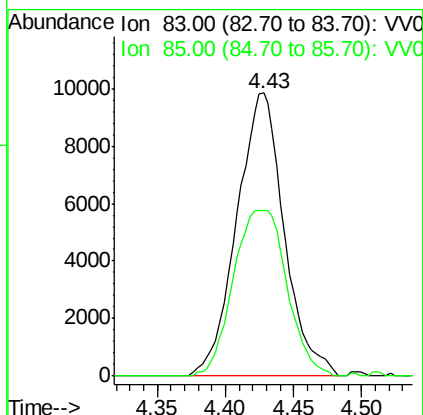
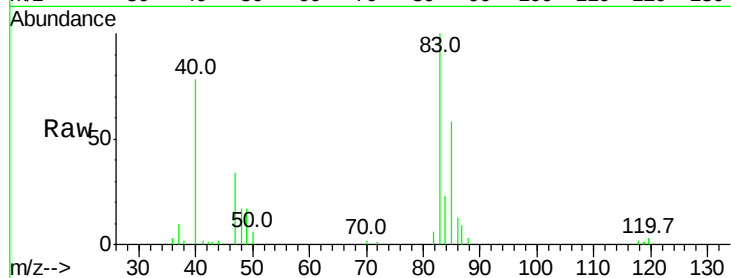




#25
Chloroform
Concen: 5.520 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV009890.D
Acq: 26 Mar 2019 12:24

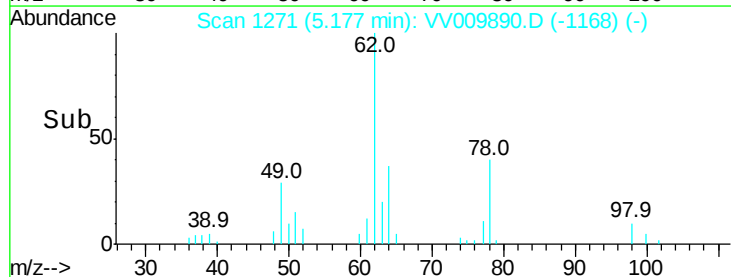
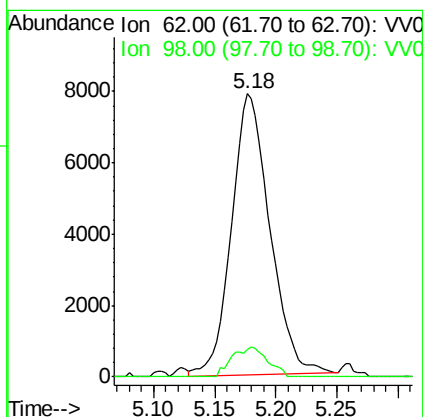
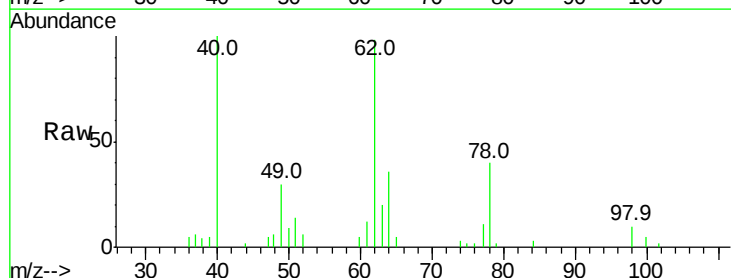
Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

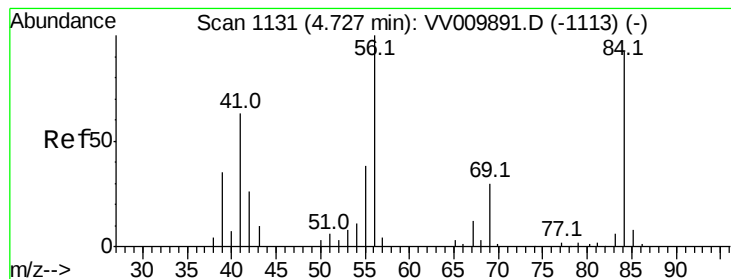
Tgt Ion: 83 Resp: 23807
Ion Ratio Lower Upper
83 100
85 65.9 46.1 85.7



#27
1,2-Dichloroethane
Concen: 5.761 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV009890.D
Acq: 26 Mar 2019 12:24

Tgt Ion: 62 Resp: 17187
Ion Ratio Lower Upper
62 100
98 9.8 7.2 10.8





#30

Cyclohexane

Concen: 4.701 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

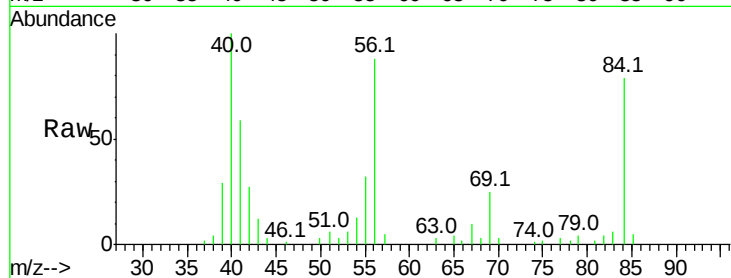
Tgt Ion: 56 Resp: 18935

Ion Ratio Lower Upper

56 100

69 30.5 24.5 36.7

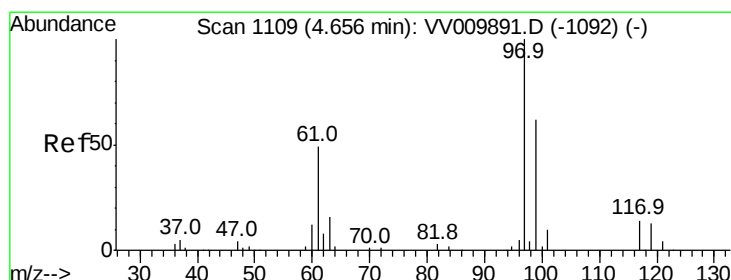
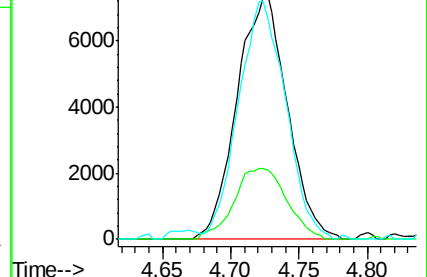
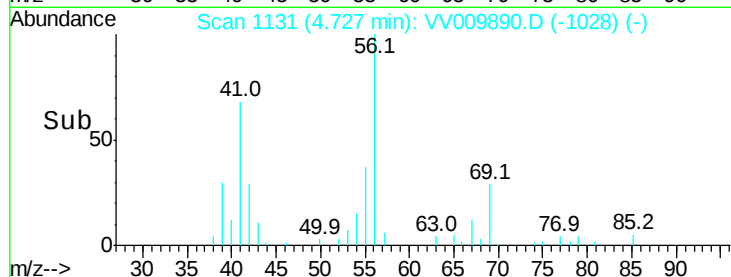
84 91.7 75.6 113.4



Abundance Ion 56.00 (55.70 to 56.70): VV009890.D (-1028) (-)

Ion 69.00 (68.70 to 69.70): VV009890.D (-1028) (-)

Ion 84.00 (83.70 to 84.70): VV009890.D (-1028) (-)



#31

1,1,1-Trichloroethane

Concen: 4.785 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

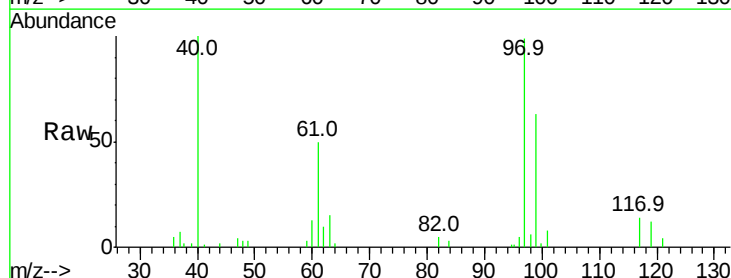
Tgt Ion: 97 Resp: 19321

Ion Ratio Lower Upper

97 100

99 61.8 51.5 77.3

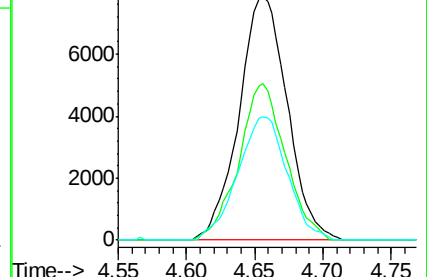
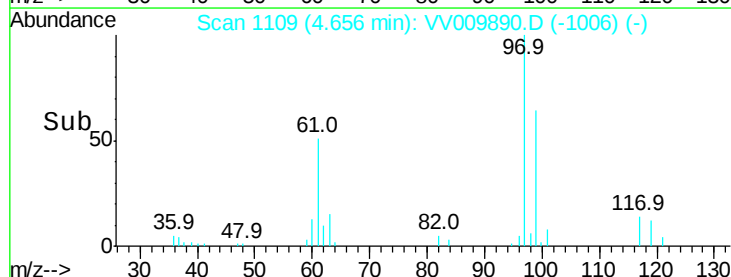
61 51.8 39.4 59.0

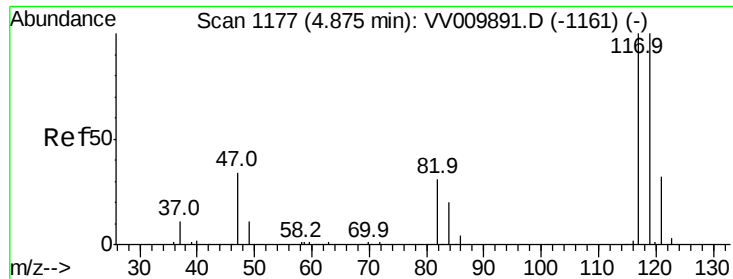


Abundance Ion 97.00 (96.70 to 97.70): VV009890.D (-1006) (-)

Ion 99.00 (98.70 to 99.70): VV009890.D (-1006) (-)

Ion 61.00 (60.70 to 61.70): VV009890.D (-1006) (-)





#32

Carbon tetrachloride

Concen: 4.819 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

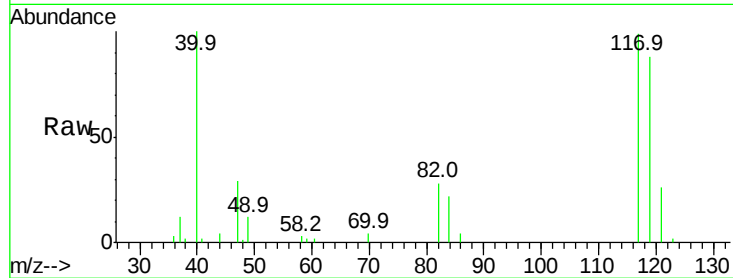
VSTD00561

Tgt Ion:117 Resp: 16598

Ion Ratio Lower Upper

117 100

119 90.5 78.1 117.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

8000

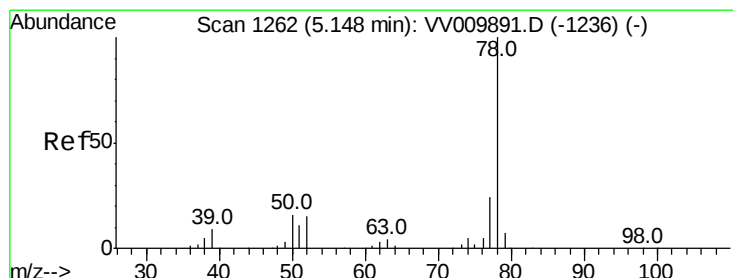
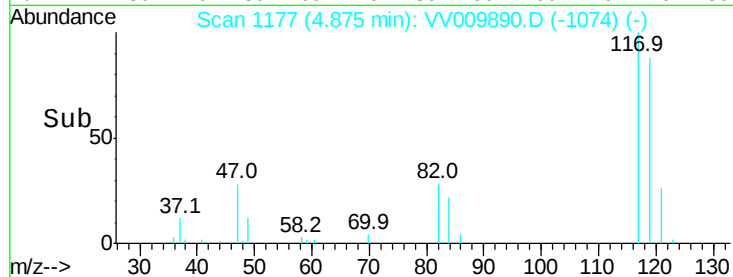
6000

4000

2000

0

Time-->



#34

Benzene

Concen: 5.530 ug/L

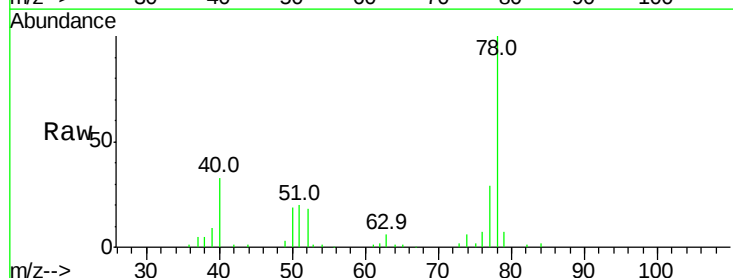
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Tgt Ion: 78 Resp: 52421



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.14

25000

20000

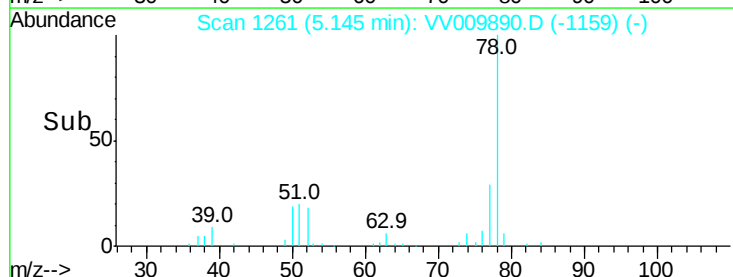
15000

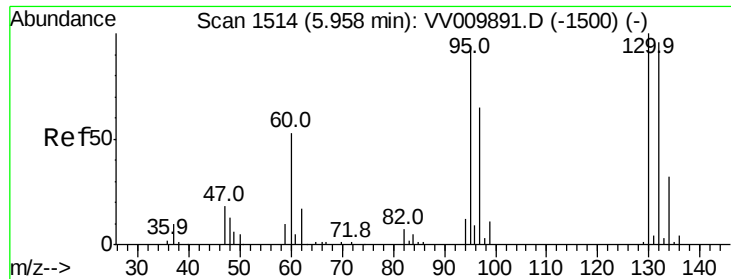
10000

5000

0

Time-->





#35

Trichloroethene

Concen: 5.717 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

Tgt Ion: 95 Resp: 15002

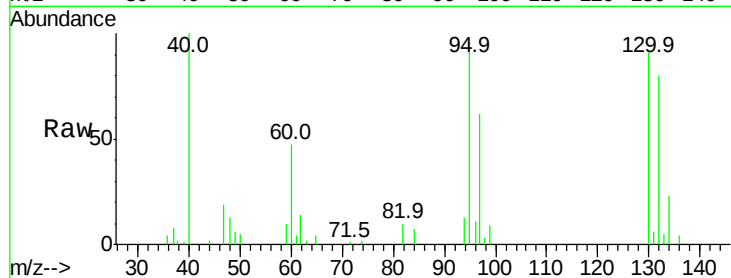
Ion Ratio Lower Upper

95 100

97 59.4 46.3 85.9

132 86.8 69.3 128.7

130 96.3 69.5 129.1

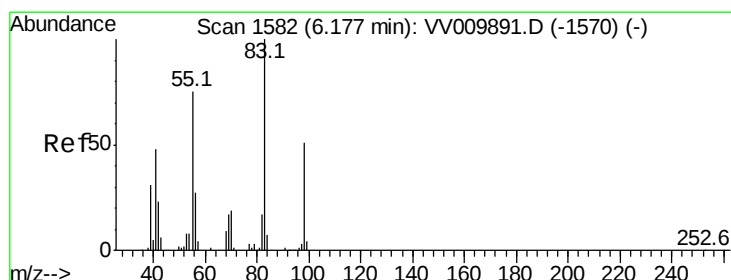
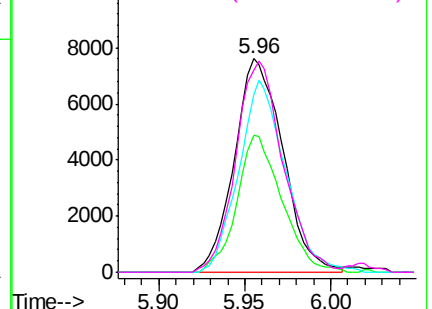
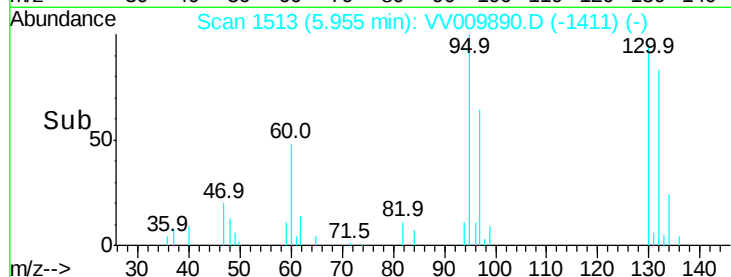


Abundance Ion 95.00 (94.70 to 95.70): VV009890.D (-1411) (-)

Ion 97.00 (96.70 to 97.70): VV009890.D (-1411) (-)

Ion 132.00 (131.70 to 132.70): VV009890.D (-1411) (-)

Ion 130.00 (129.70 to 130.70): VV009890.D (-1411) (-)



#36

Methylcyclohexane

Concen: 4.573 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.01 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

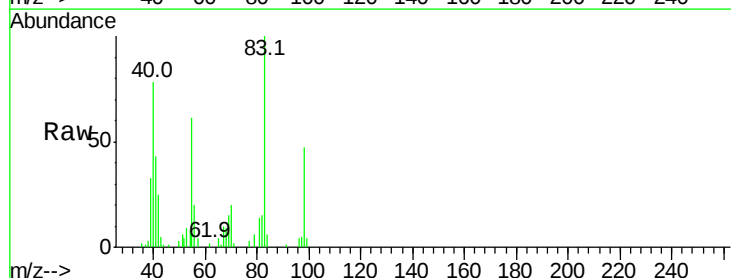
Tgt Ion: 83 Resp: 20952

Ion Ratio Lower Upper

83 100

55 73.0 57.3 85.9

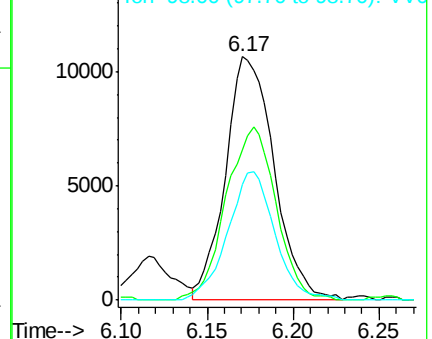
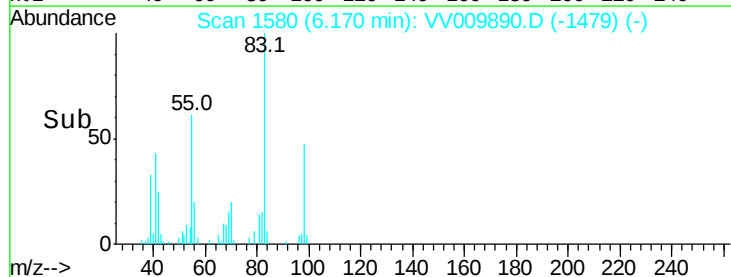
98 51.1 39.2 58.8

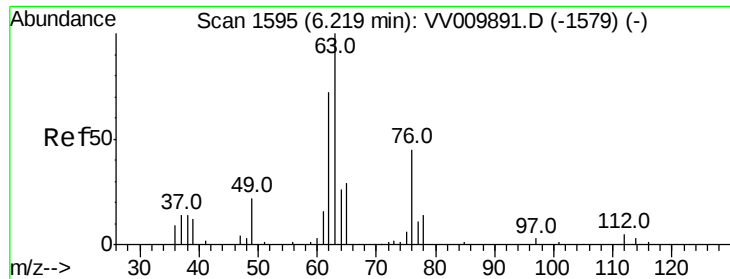


Abundance Ion 83.00 (82.70 to 83.70): VV009890.D (-1479) (-)

Ion 55.00 (54.70 to 55.70): VV009890.D (-1479) (-)

Ion 98.00 (97.70 to 98.70): VV009890.D (-1479) (-)

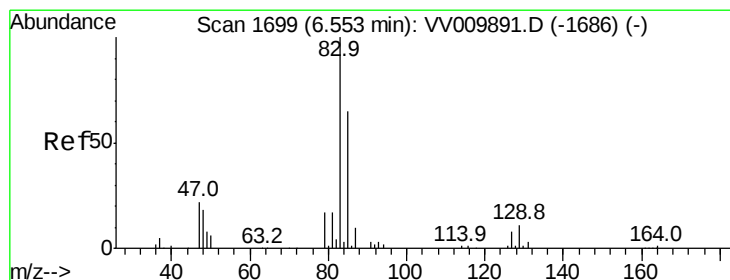
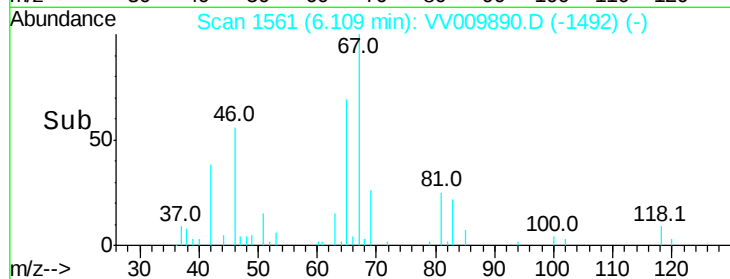
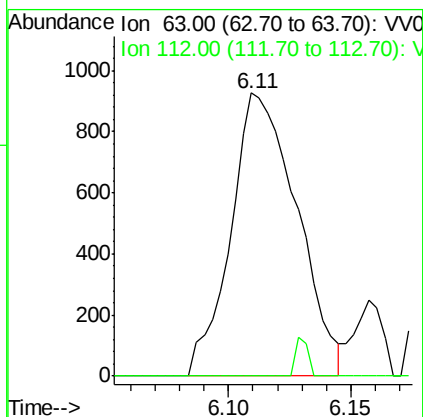
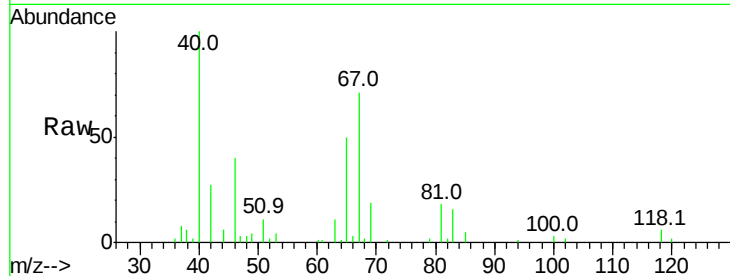




#40
 1,2-Dichloropropane
 Concen: 0.739 ug/L
 RT: 6.11 min Scan# 1561
 Delta R.T. -0.11 min
 Lab File: VV009890.D
 Acq: 26 Mar 2019 12:24

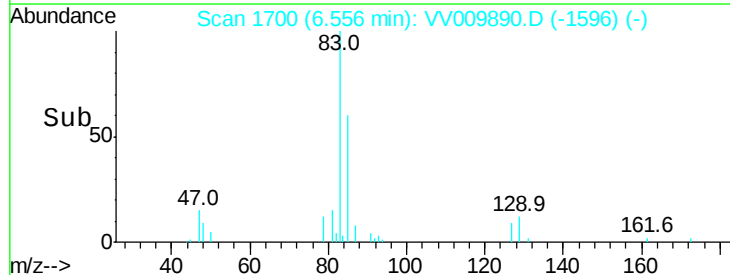
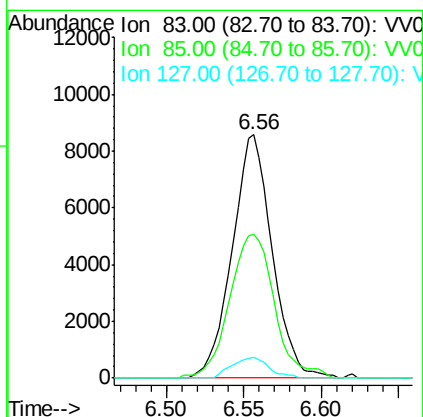
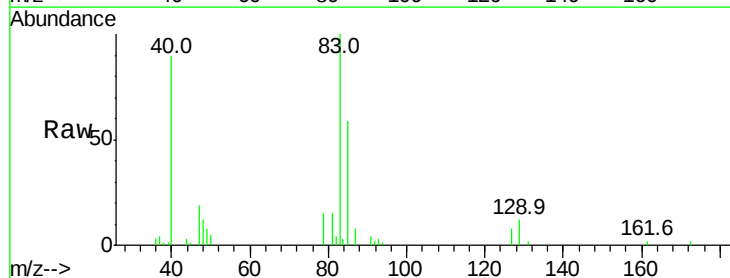
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

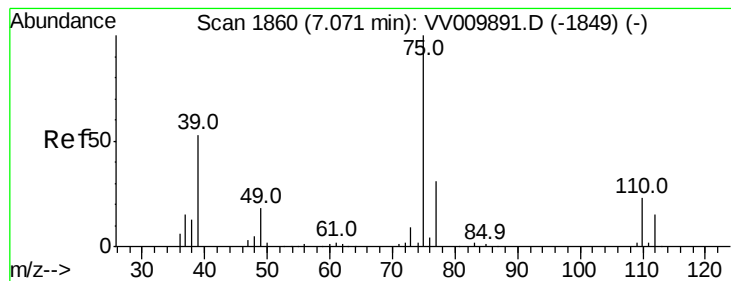
Tgt Ion: 63 Resp: 1741
 Ion Ratio Lower Upper
 63 100
 112 2.6 2.1 3.1



#41
 Bromodichloromethane
 Concen: 4.601 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV009890.D
 Acq: 26 Mar 2019 12:24

Tgt Ion: 83 Resp: 15411
 Ion Ratio Lower Upper
 83 100
 85 58.9 45.6 84.8
 127 8.5 6.2 9.4



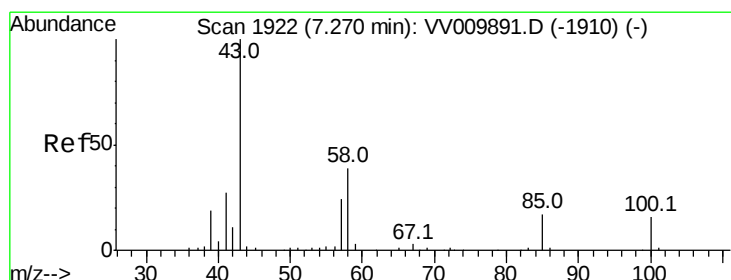
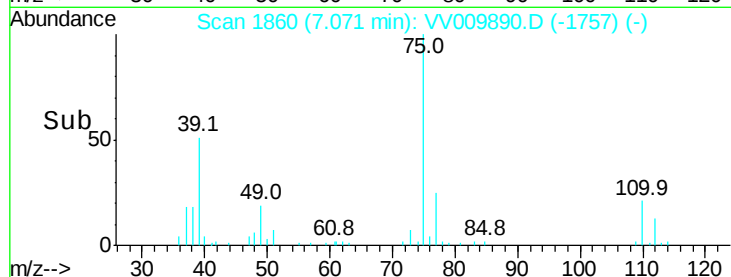
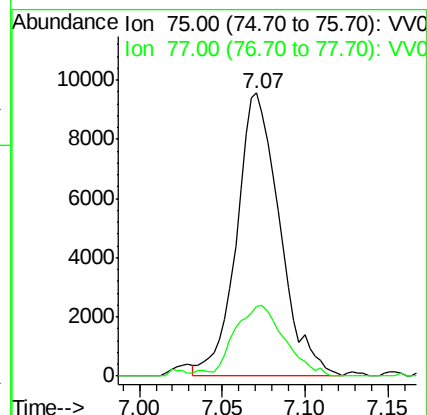
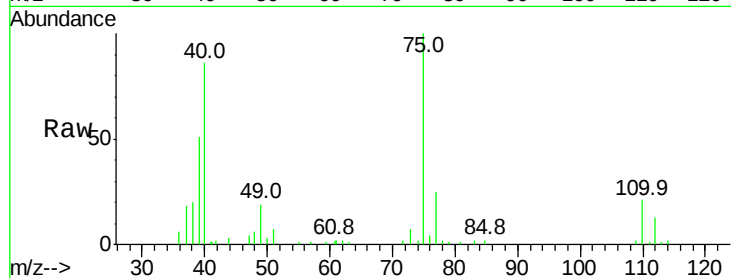


#42

cis-1,3-Dichloropropene
Concen: 4.633 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV009890.D
Acq: 26 Mar 2019 12:24

Instrument :
MSVOA_V
ClientSampled :
VSTD00561

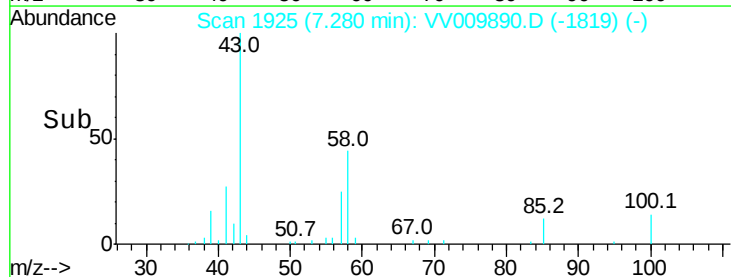
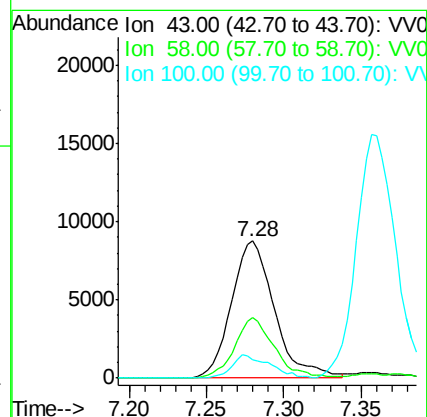
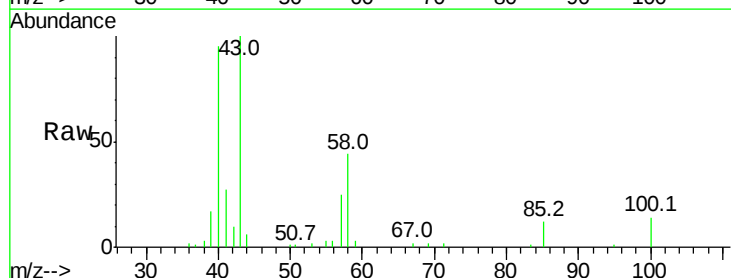
Tgt Ion: 75 Resp: 17338
Ion Ratio Lower Upper
75 100
77 24.6 21.8 40.6

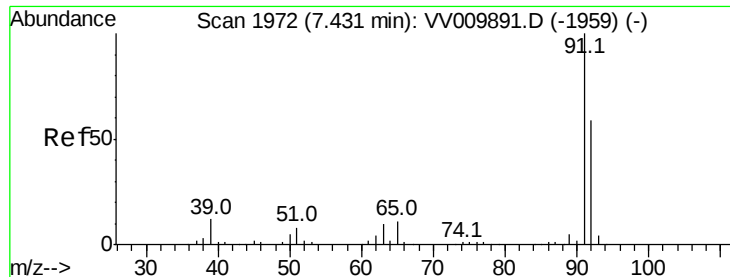


#43

4-Methyl-2-pentanone
Concen: 10.052 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. 0.01 min
Lab File: VV009890.D
Acq: 26 Mar 2019 12:24

Tgt Ion: 43 Resp: 16926
Ion Ratio Lower Upper
43 100
58 40.9 29.4 44.2
100 14.8 12.2 18.4





#44

Toluene

Concen: 4.969 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

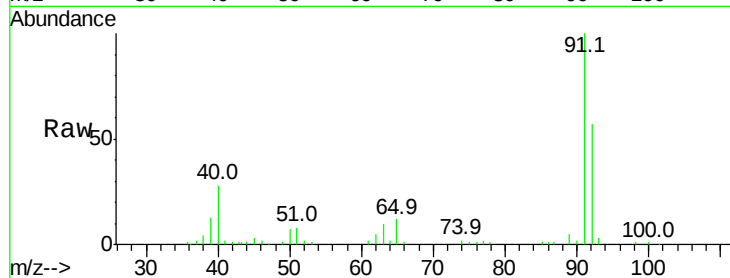
VSTD00561

Tgt Ion: 91 Resp: 52683

Ion Ratio Lower Upper

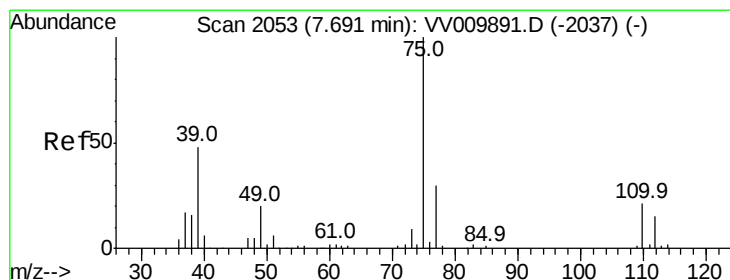
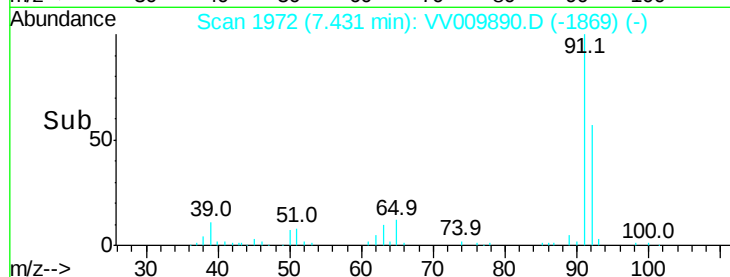
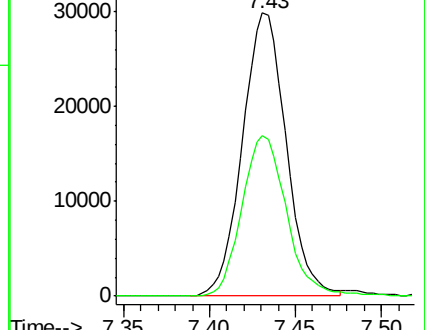
91 100

92 56.7 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV009890.D (-1869) (-)

Ion 92.00 (91.70 to 92.70): VV009890.D (-1869) (-)



#45

trans-1,3-Dichloropropene

Concen: 3.839 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV009890.D

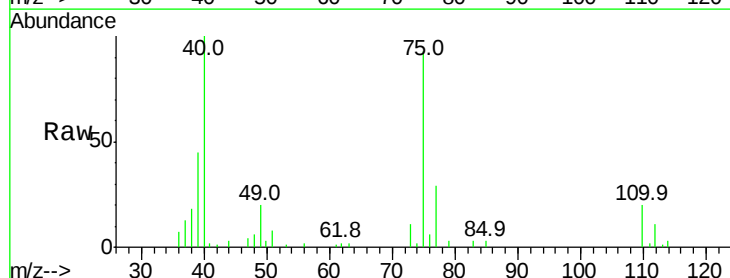
Acq: 26 Mar 2019 12:24

Tgt Ion: 75 Resp: 13023

Ion Ratio Lower Upper

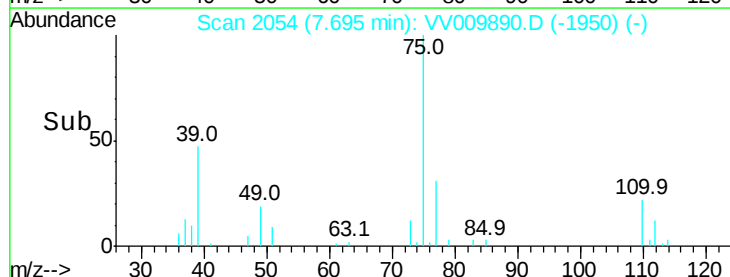
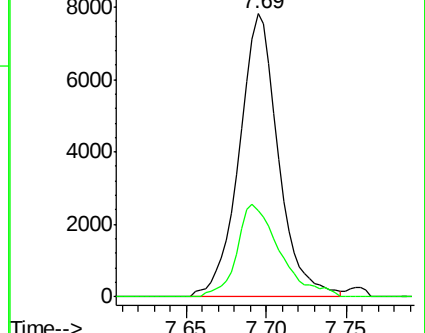
75 100

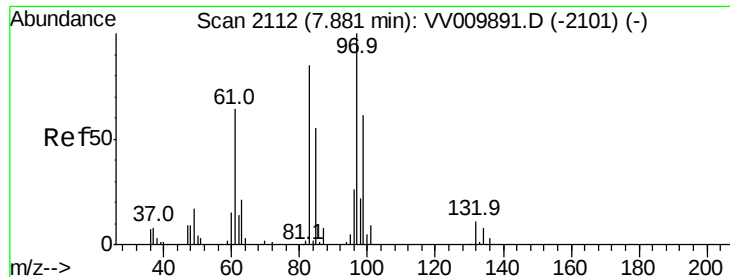
77 30.7 20.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV009890.D (-1950) (-)

Ion 77.00 (76.70 to 77.70): VV009890.D (-1950) (-)

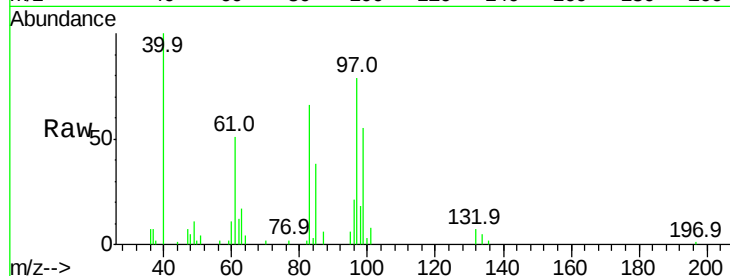




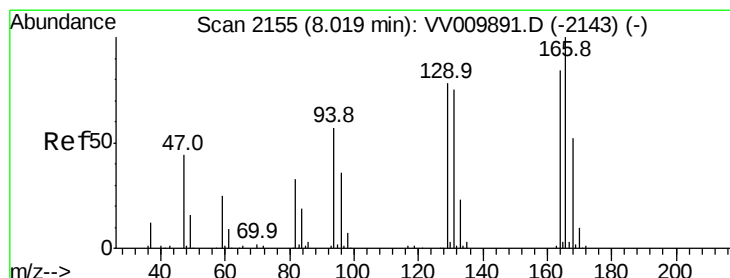
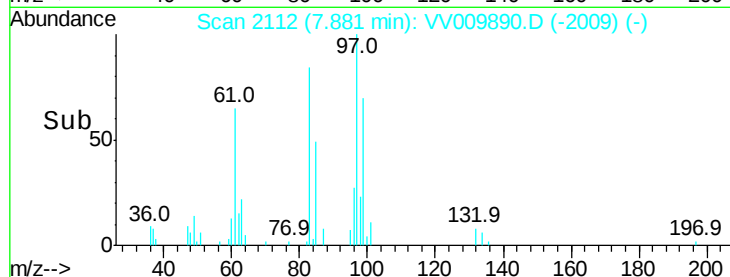
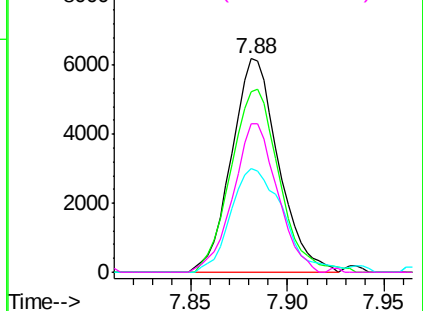
#46
 1,1,2-Trichloroethane
 Concen: 5.364 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV009890.D
 Acq: 26 Mar 2019 12:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

Tgt Ion: 97 Resp: 10435
 Ion Ratio Lower Upper
 97 100
 83 84.3 59.6 110.8
 85 48.6 39.2 72.8
 99 69.7 42.6 79.2



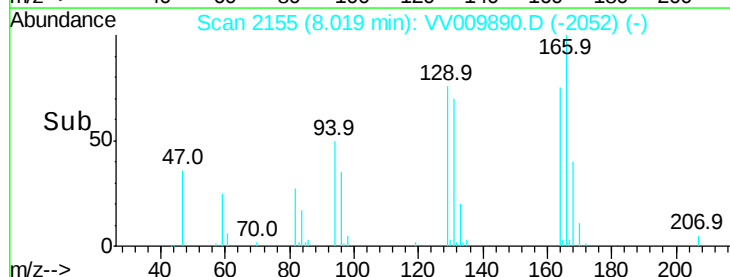
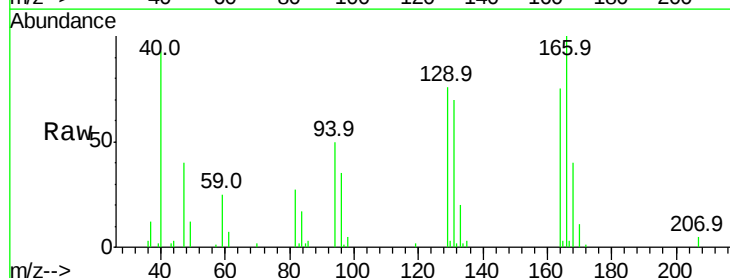
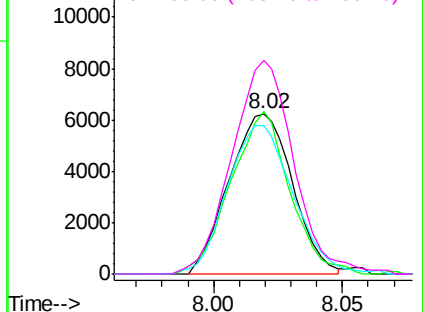
Abundance Ion 97.00 (96.70 to 97.70): VV009891.D (-2101) (-)
 Ion 83.00 (82.70 to 83.70): VV009891.D (-2101) (-)
 Ion 85.00 (84.70 to 85.70): VV009891.D (-2101) (-)
 Ion 99.00 (98.70 to 99.70): VV009891.D (-2101) (-)

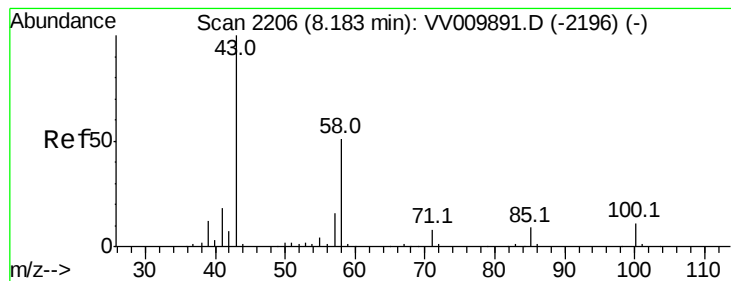


#47
 Tetrachloroethene
 Concen: 5.506 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV009890.D
 Acq: 26 Mar 2019 12:24

Tgt Ion: 164 Resp: 10702
 Ion Ratio Lower Upper
 164 100
 129 101.1 64.9 120.5
 131 92.9 62.0 115.2
 166 133.1 82.9 153.9

Abundance Ion 164.00 (163.70 to 164.70): VV009891.D (-2143) (-)
 Ion 129.00 (128.70 to 129.70): VV009891.D (-2143) (-)
 Ion 131.00 (130.70 to 131.70): VV009891.D (-2143) (-)
 Ion 166.00 (165.70 to 166.70): VV009891.D (-2143) (-)





#49

2-Hexanone

Concen: 7.529 ug/L

RT: 8.19 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

Tgt Ion: 43 Resp: 10585

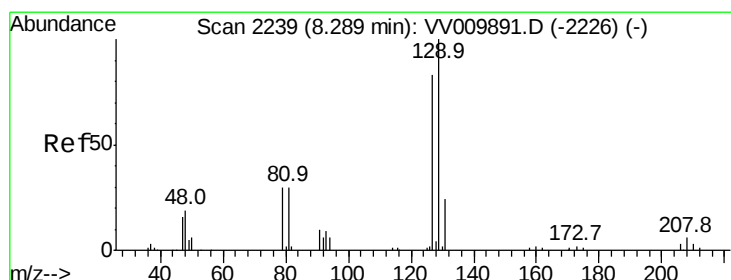
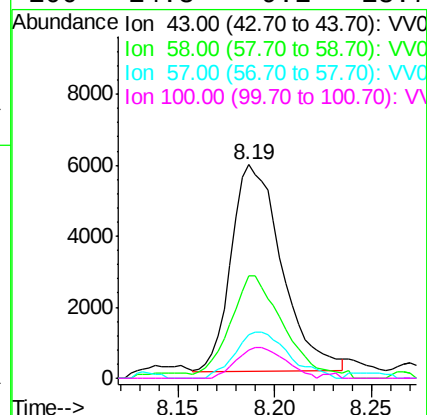
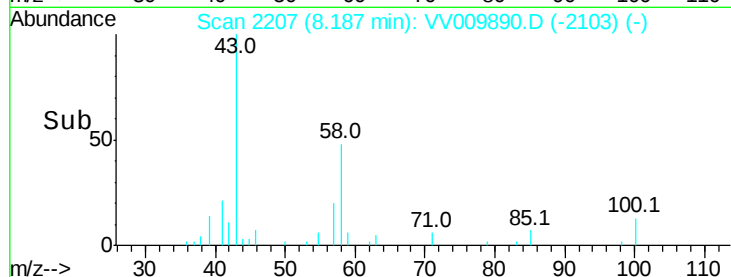
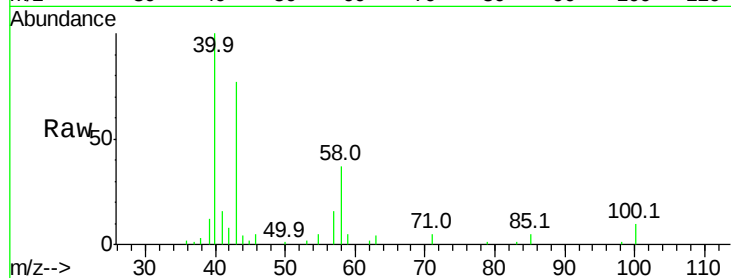
Ion Ratio Lower Upper

43 100

58 51.9 42.0 63.0

57 21.9 12.9 19.3#

100 14.3 9.1 13.7#



#50

Dibromochloromethane

Concen: 4.033 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. 0.00 min

Lab File: VV009890.D

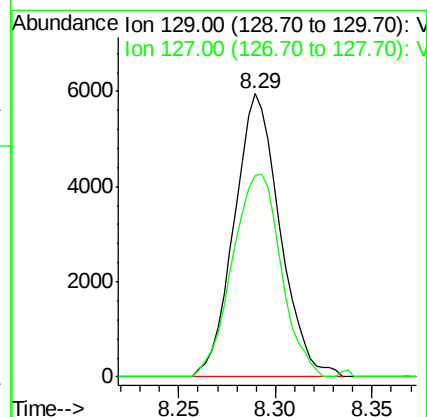
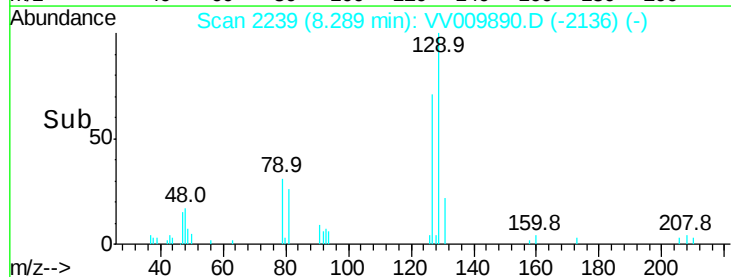
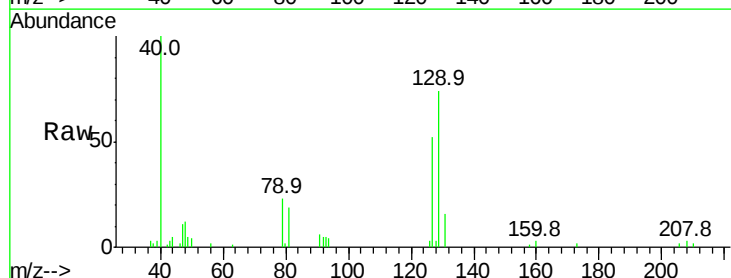
Acq: 26 Mar 2019 12:24

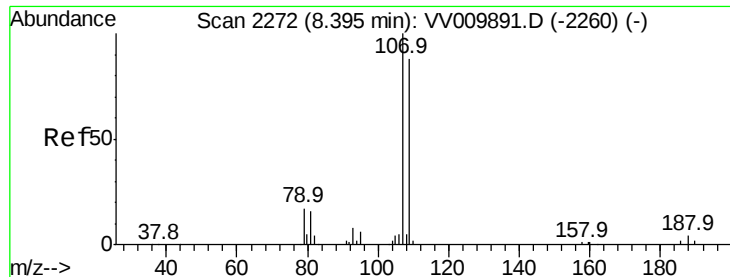
Tgt Ion: 129 Resp: 9813

Ion Ratio Lower Upper

129 100

127 71.1 57.9 107.5





#51

1,2-Dibromoethane

Concen: 4.955 ug/L

RT: 8.40 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

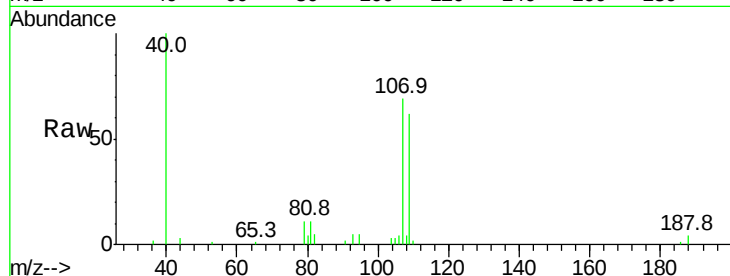
Tgt Ion:107 Resp: 9703

Ion Ratio Lower Upper

107 100

109 88.9 61.8 114.8

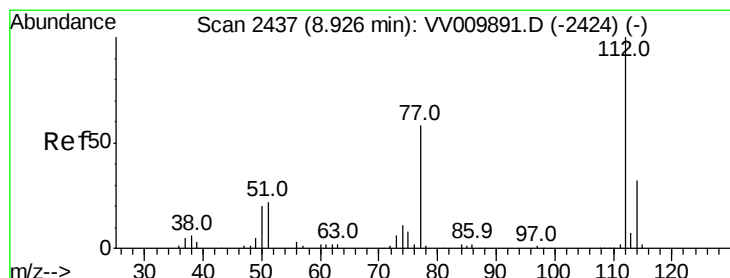
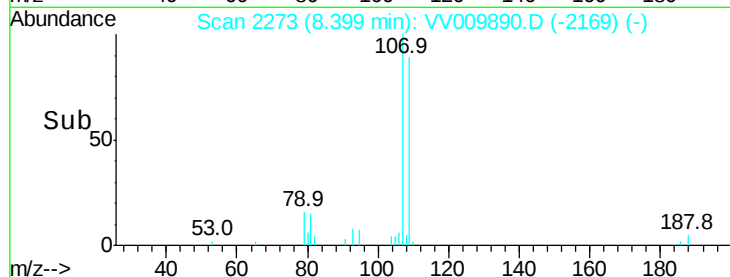
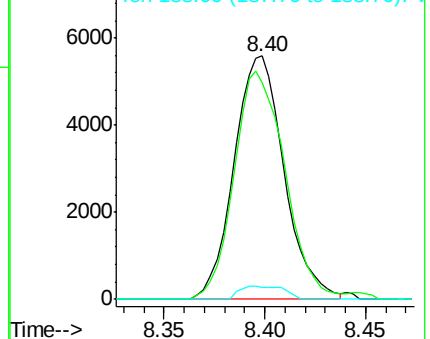
188 5.1 3.5 5.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 5.169 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

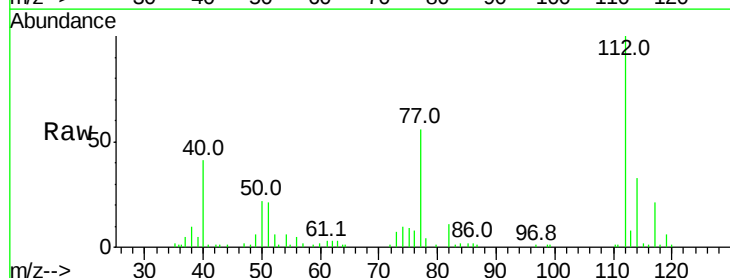
Tgt Ion:112 Resp: 35499

Ion Ratio Lower Upper

112 100

77 55.7 46.8 70.2

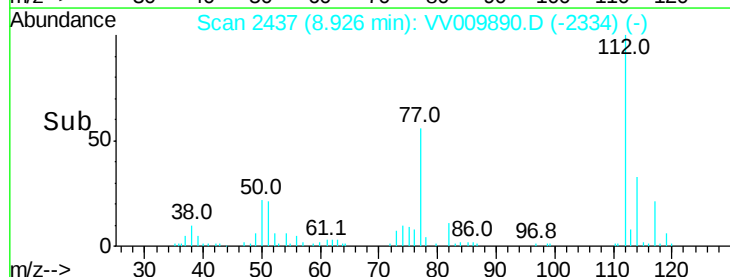
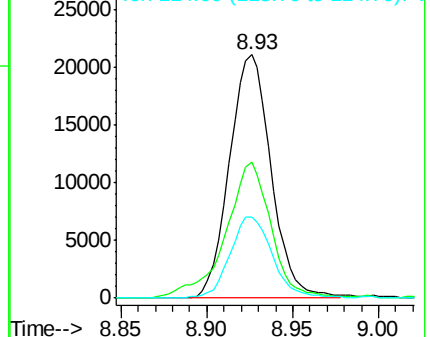
114 33.0 22.3 41.5

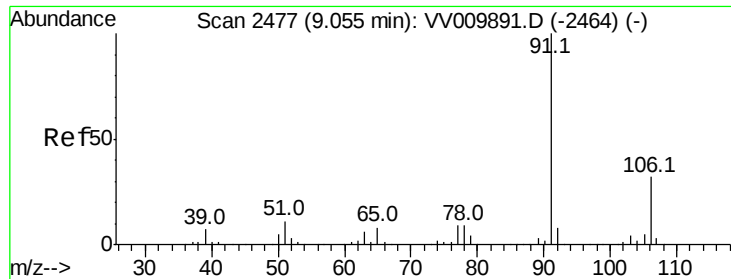


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

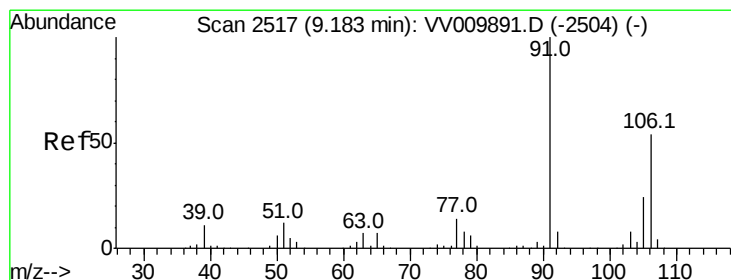
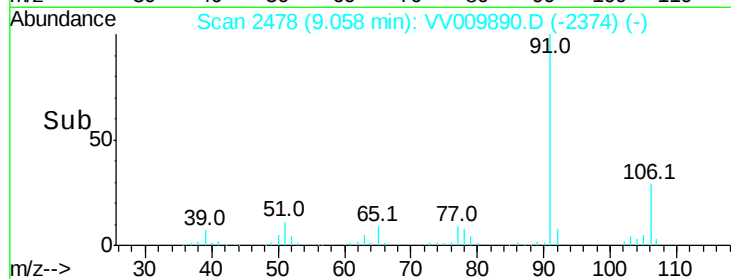
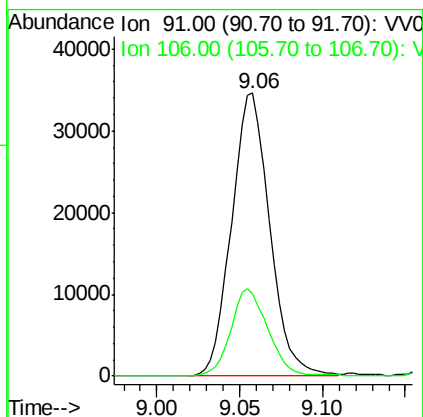
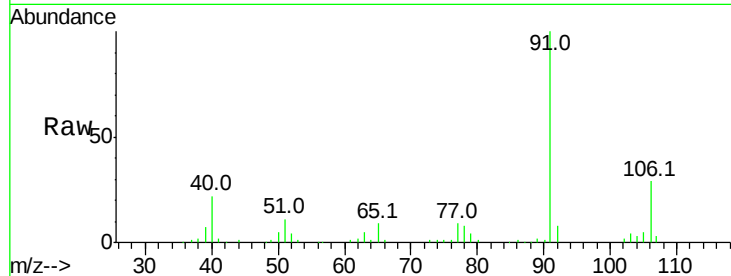




#53
Ethylbenzene
Concen: 4.575 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. 0.00 min
Lab File: VV009890.D
Acq: 26 Mar 2019 12:24

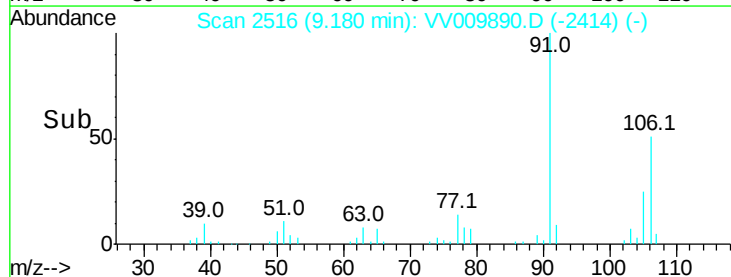
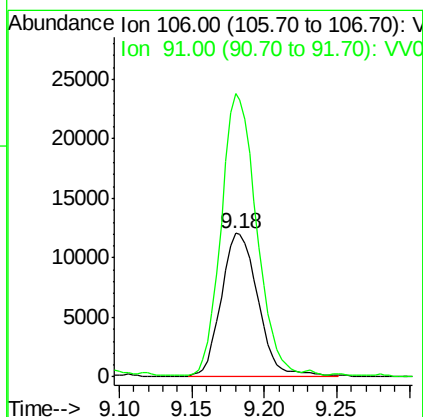
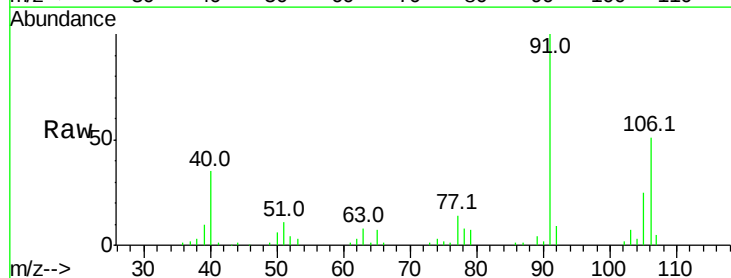
Instrument :
MSVOA_V
ClientSampleId :
VSTD00561

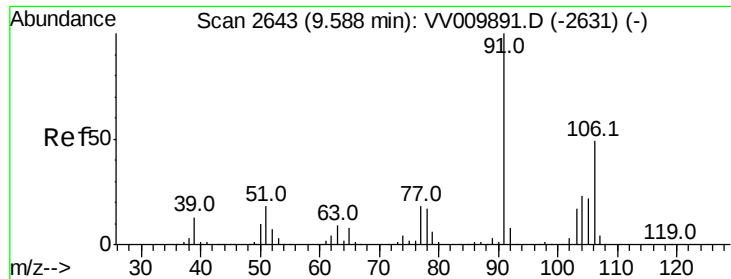
Tgt Ion: 91 Resp: 55486
Ion Ratio Lower Upper
91 100
106 29.0 22.3 41.3



#54
m,p-Xylene
Concen: 4.497 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV009890.D
Acq: 26 Mar 2019 12:24

Tgt Ion: 106 Resp: 21244
Ion Ratio Lower Upper
106 100
91 197.6 130.0 241.4





#55

o-xylene

Concen: 4.367 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

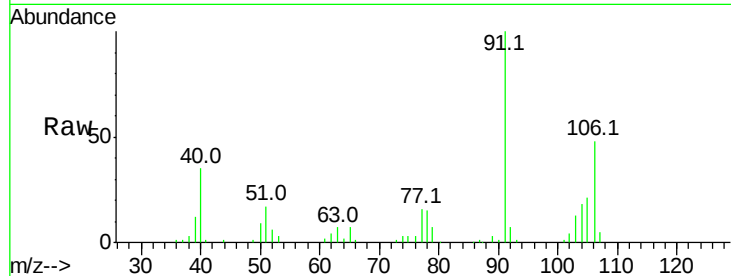
VSTD00561

Tgt Ion:106 Resp: 19559

Ion Ratio Lower Upper

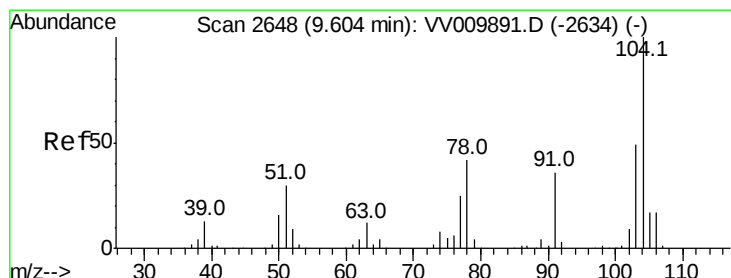
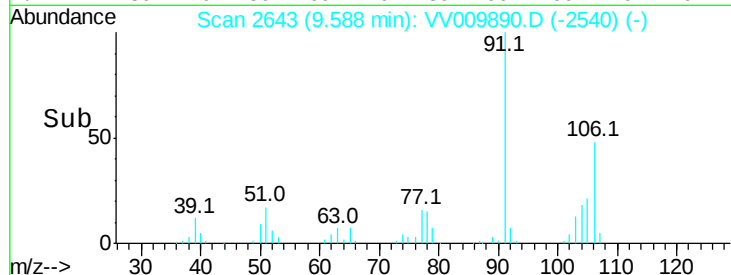
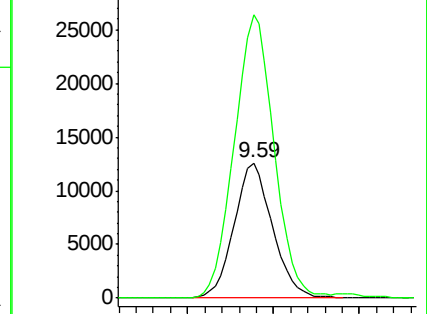
106 100

91 209.4 144.3 268.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 4.218 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009890.D

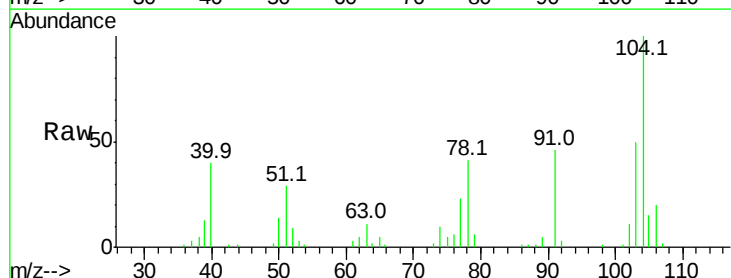
Acq: 26 Mar 2019 12:24

Tgt Ion:104 Resp: 31689

Ion Ratio Lower Upper

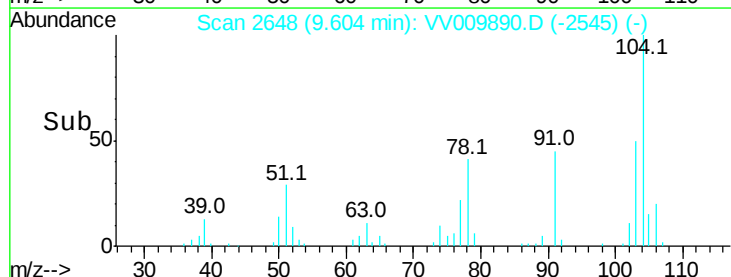
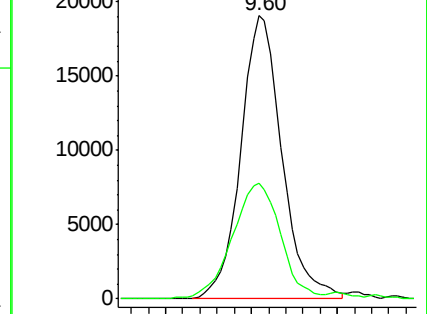
104 100

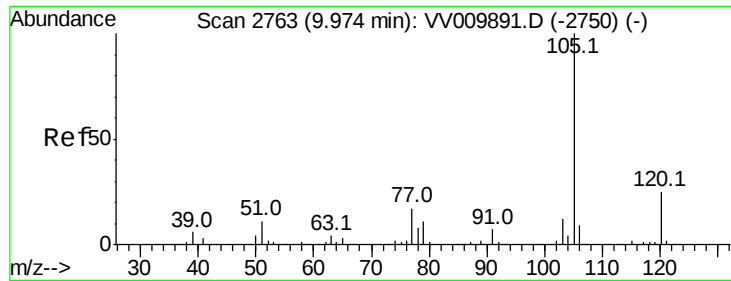
78 40.9 29.3 54.3



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 4.075 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

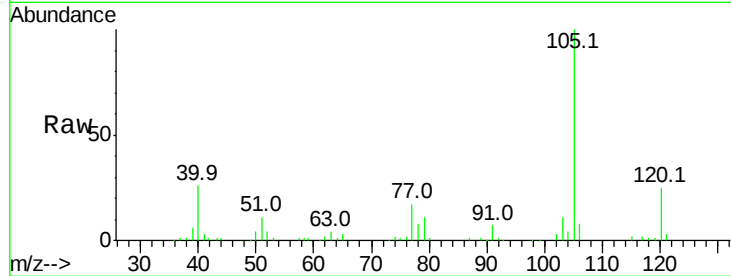
Tgt Ion: 105 Resp: 49867

Ion Ratio Lower Upper

105 100

120 26.7 20.8 31.2

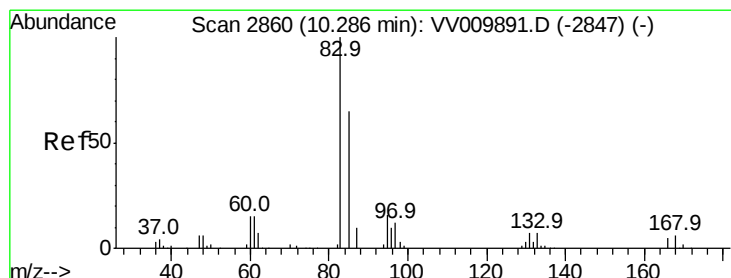
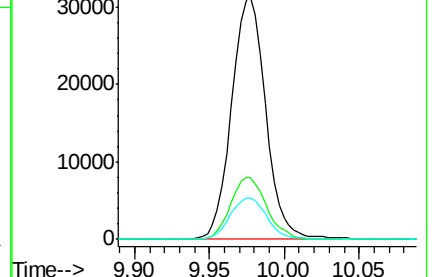
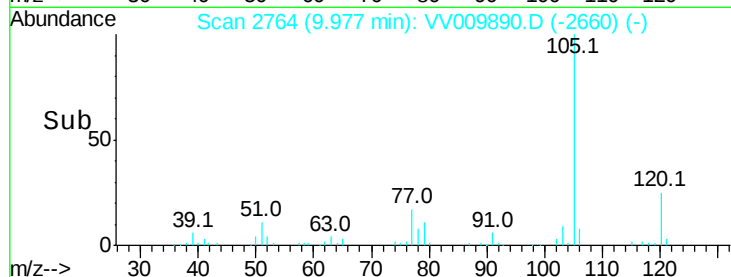
77 18.4 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): VV009890.D (-2750) (-)

Ion 120.00 (119.70 to 120.70): VV009890.D (-2750) (-)

Ion 77.00 (76.70 to 77.70): VV009890.D (-2750) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 4.734 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

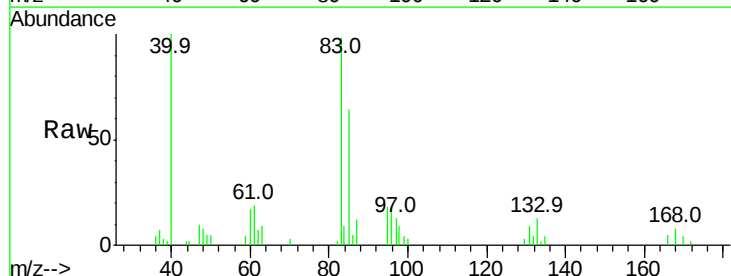
Tgt Ion: 83 Resp: 12524

Ion Ratio Lower Upper

83 100

85 65.6 45.8 85.0

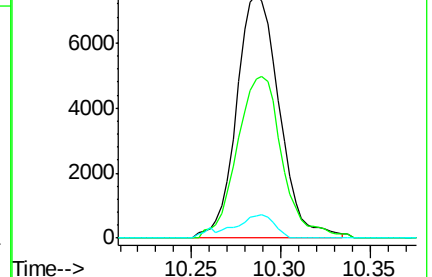
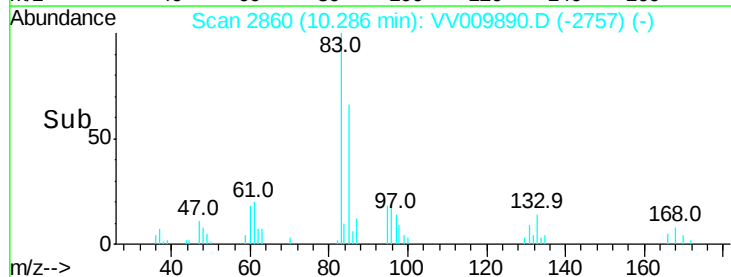
131 9.3 6.2 9.4

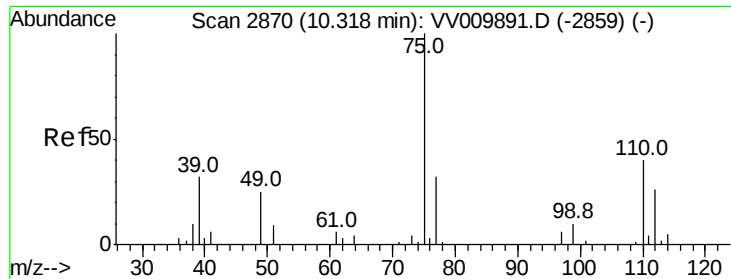


Abundance Ion 83.00 (82.70 to 83.70): VV009890.D (-2757) (-)

Ion 85.00 (84.70 to 85.70): VV009890.D (-2757) (-)

Ion 131.00 (130.70 to 131.70): VV009890.D (-2757) (-)

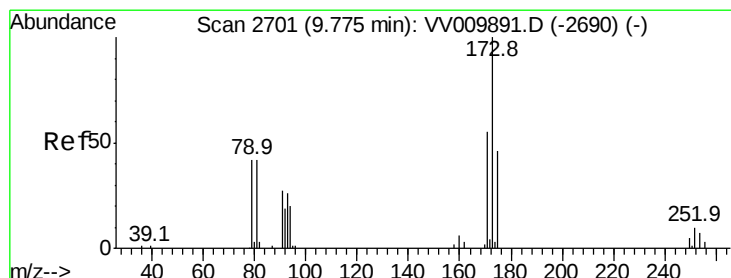
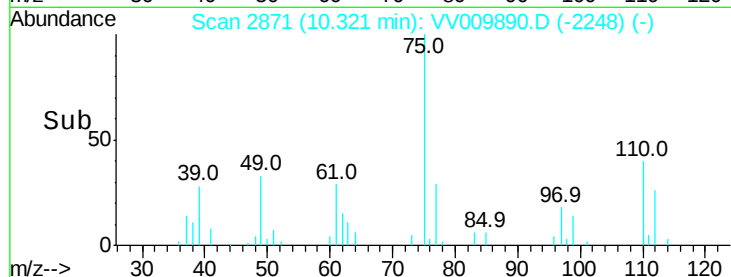
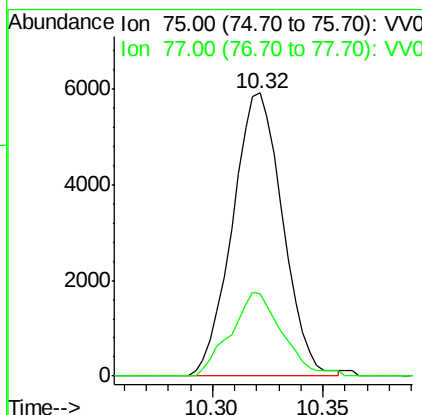
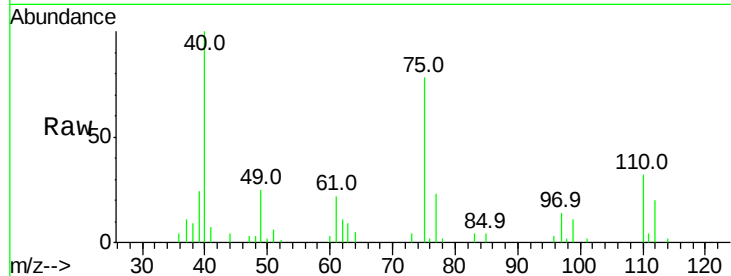




#59
 1,2,3-Trichloropropane
 Concen: 4.965 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV009890.D
 Acq: 26 Mar 2019 12:24

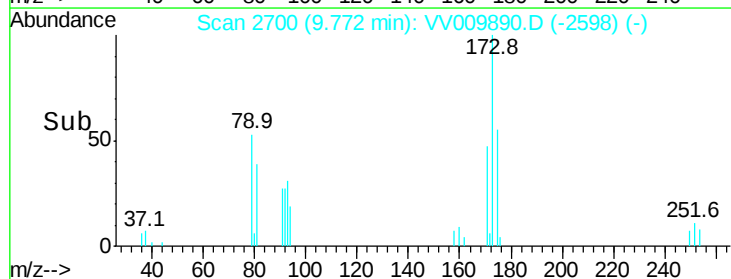
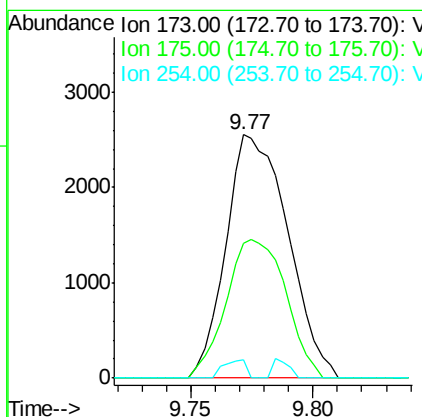
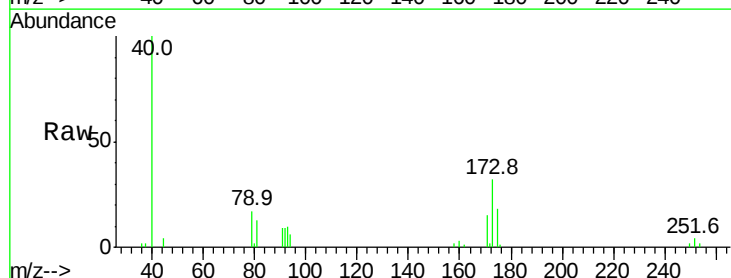
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

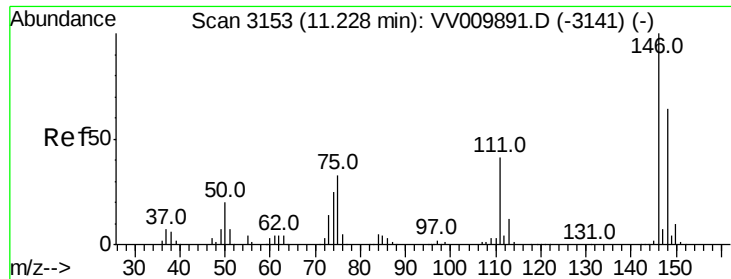
Tgt Ion: 75 Resp: 9355
 Ion Ratio Lower Upper
 75 100
 77 29.9 26.2 39.2



#62
 Bromoform
 Concen: 3.352 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. -0.00 min
 Lab File: VV009890.D
 Acq: 26 Mar 2019 12:24

Tgt Ion: 173 Resp: 4502
 Ion Ratio Lower Upper
 173 100
 175 54.9 37.8 56.8
 254 2.8 6.6 9.8#





#63

1,3-Dichlorobenzene

Concen: 5.165 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampled :

VSTD00561

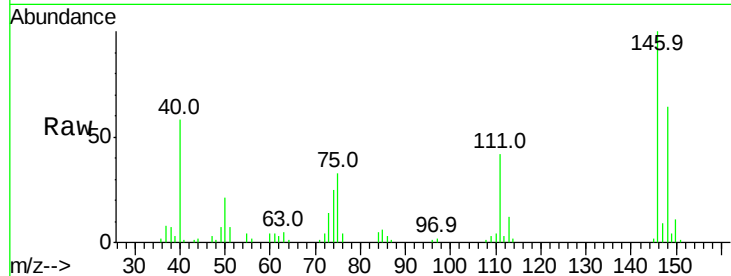
Tgt Ion:146 Resp: 24801

Ion Ratio Lower Upper

146 100

111 41.5 28.5 52.9

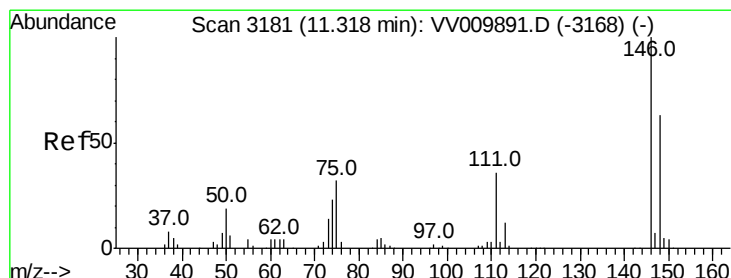
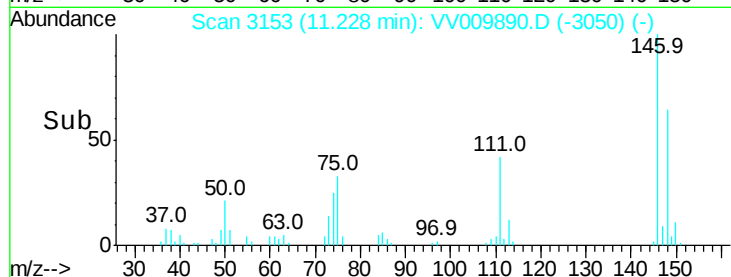
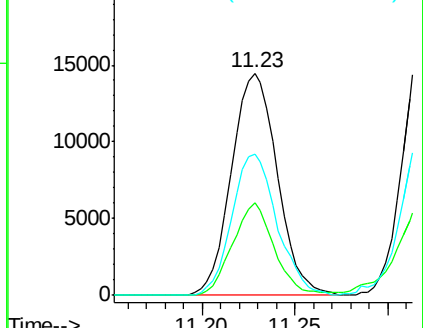
148 63.7 45.0 83.6



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



#64

1,4-Dichlorobenzene

Concen: 5.621 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

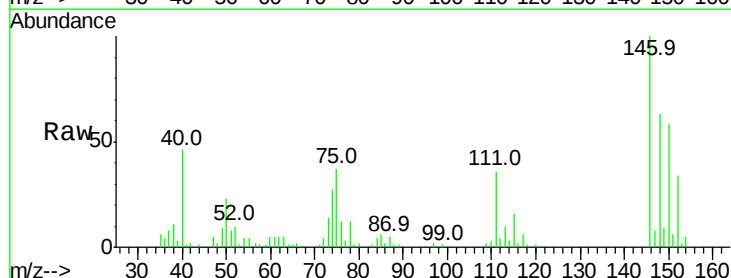
Tgt Ion:146 Resp: 26940

Ion Ratio Lower Upper

146 100

111 36.3 25.4 47.2

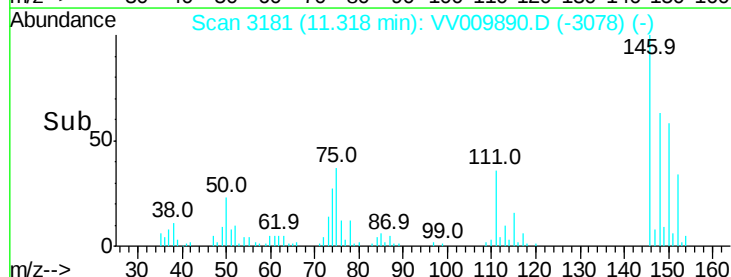
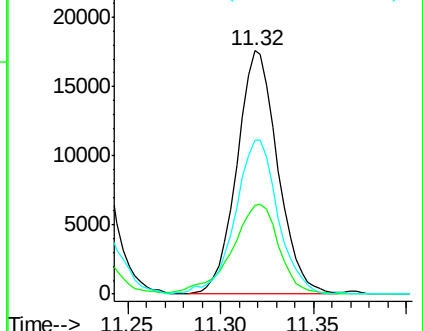
148 63.4 44.1 81.9

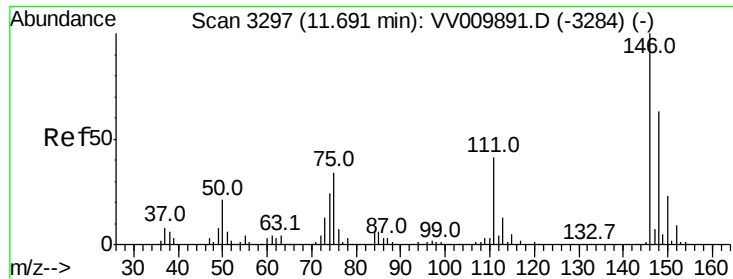


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.124 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

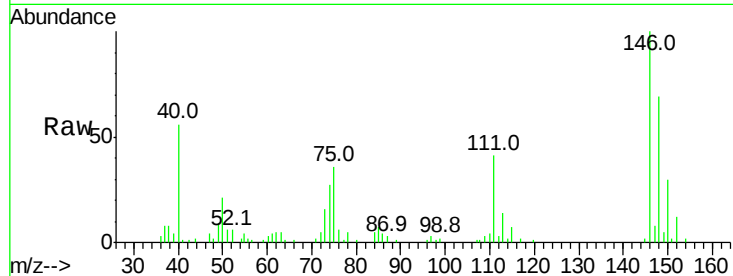
Tgt Ion:146 Resp: 23120

Ion Ratio Lower Upper

146 100

111 40.5 32.7 49.1

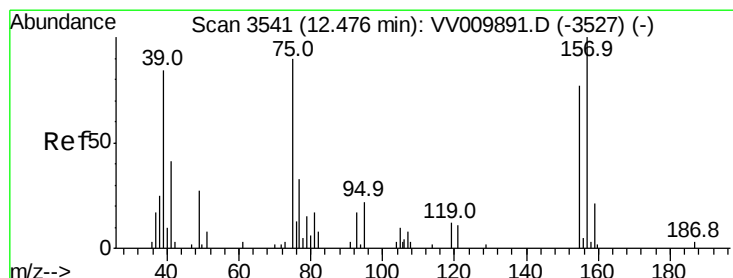
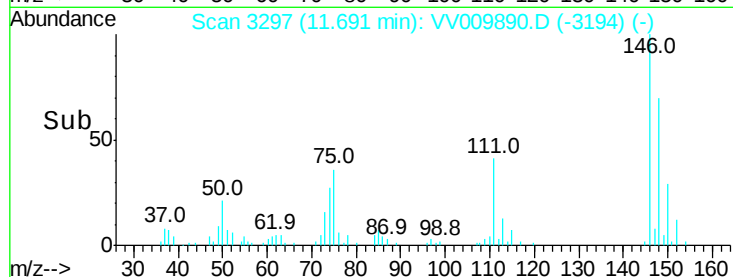
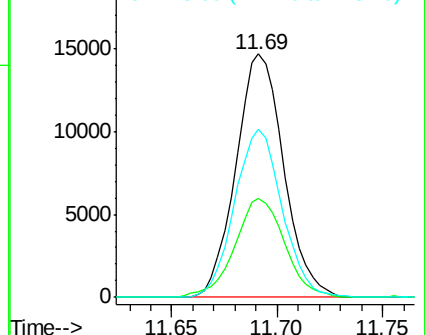
148 69.3 50.5 75.7



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



#66

1,2-Dibromo-3-chloropropane

Concen: 3.188 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

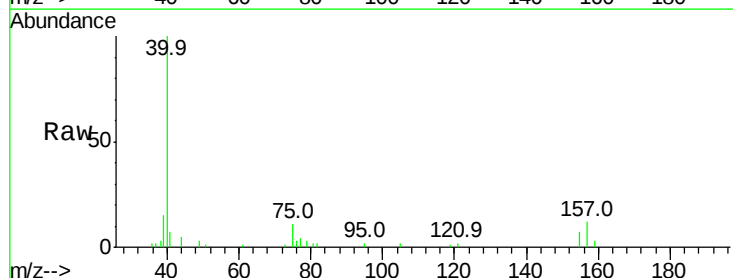
Tgt Ion: 75 Resp: 1420

Ion Ratio Lower Upper

75 100

157 109.6 89.2 133.8

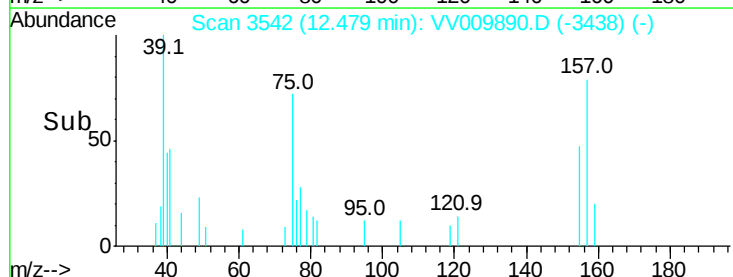
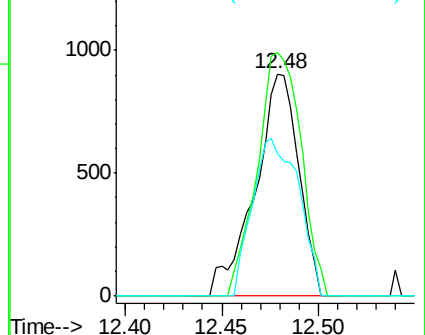
155 64.3 68.6 102.8#

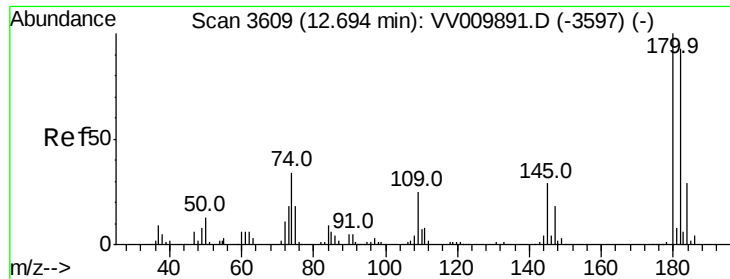


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

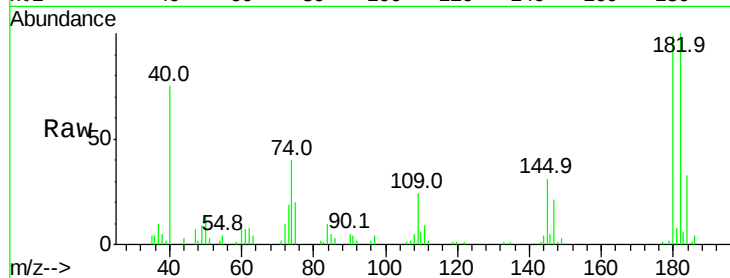




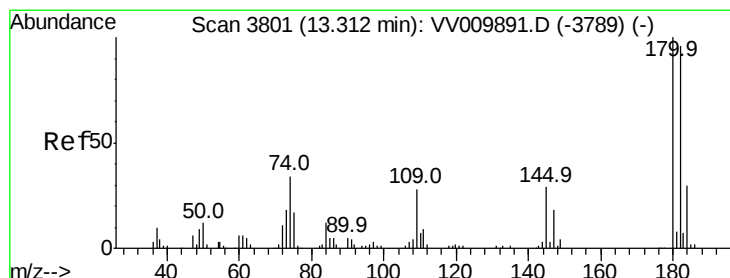
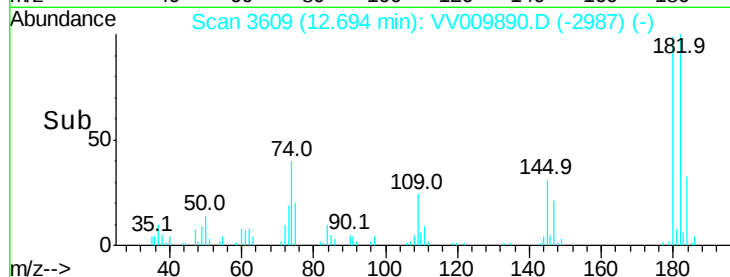
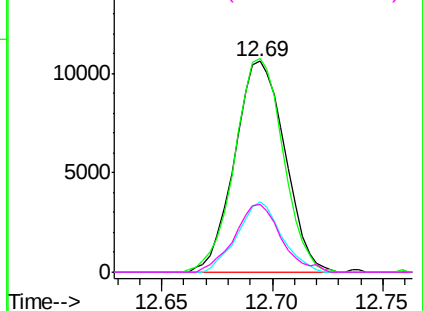
#67
 1,3,5-Trichlorobenzene
 Concen: 4.943 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009890.D
 Acq: 26 Mar 2019 12:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00561

Tgt Ion:180 Resp: 16760
 Ion Ratio Lower Upper
 180 100
 182 97.6 78.4 117.6
 184 29.3 24.3 36.5
 145 30.0 24.9 37.3

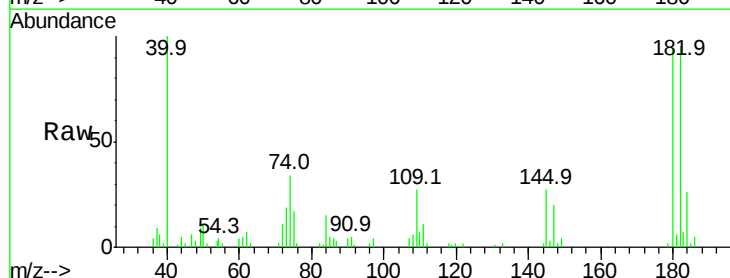


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

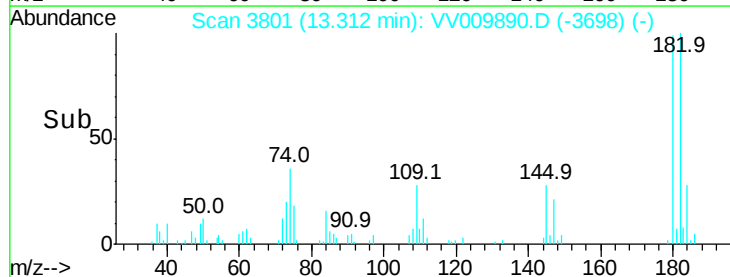
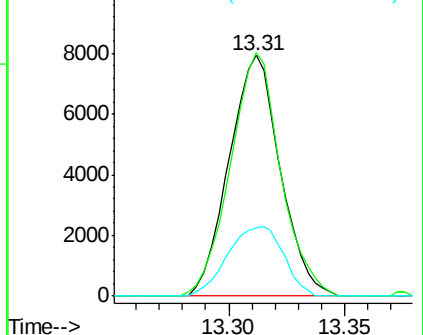


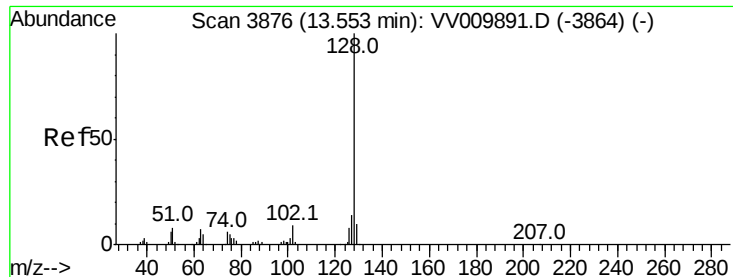
#68
 1,2,4-trichlorobenzene
 Concen: 4.612 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009890.D
 Acq: 26 Mar 2019 12:24

Tgt Ion:180 Resp: 12140
 Ion Ratio Lower Upper
 180 100
 182 99.2 75.5 113.3
 145 31.5 23.2 34.8



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: 3.077 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD00561

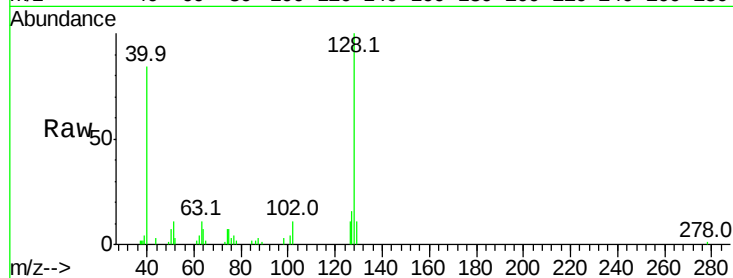
Tgt Ion:128 Resp: 16402

Ion Ratio Lower Upper

128 100

129 10.2 8.8 13.2

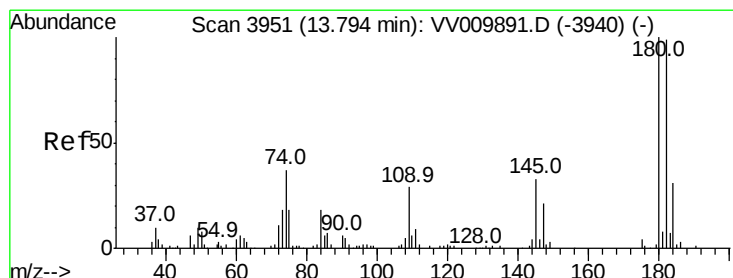
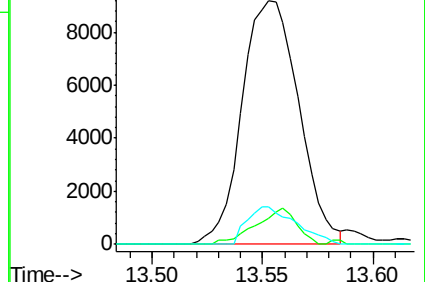
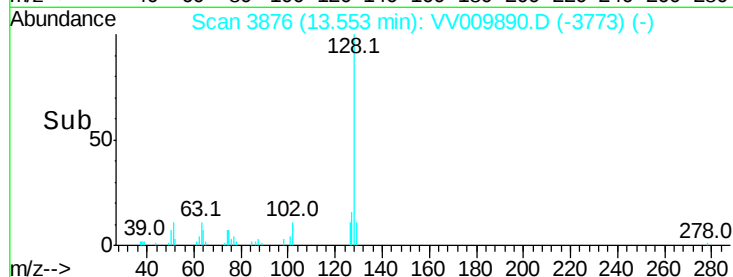
127 13.3 11.4 17.2



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: 5.032 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009890.D

Acq: 26 Mar 2019 12:24

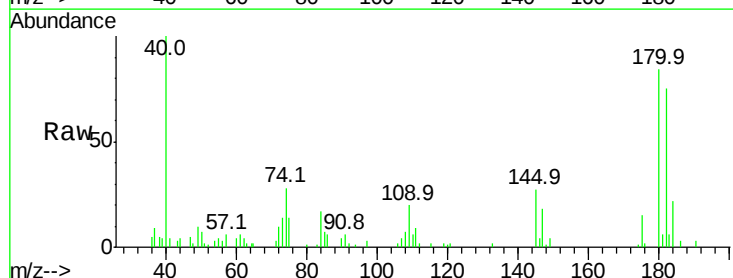
Tgt Ion:180 Resp: 12279

Ion Ratio Lower Upper

180 100

182 86.4 77.1 115.7

145 29.8 26.3 39.5



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

