

Data File : VV009291.D
Acq On : 13 Feb 2019 13:25
Operator : SY/MD
Sample : VSTD00562
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Quant Time: Feb 13 14:23:45 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM021319S.M
Quant Title : VOC Analysis
QLast Update : Wed Feb 13 14:20:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	213945	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	206216	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	96089	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	17552	4.80	ug/L	0.00
7) Chloroethane-d5	1.56	69	13332	5.72	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	35850	4.77	ug/L	0.00
20) 2-Butanone-d5	3.94	46	13733	8.38	ug/L	0.00
24) Chloroform-d	4.40	84	30474	4.62	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	18234	4.68	ug/L	0.00
29) Benzene-d6	5.10	84	57406	4.48	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	18741	4.71	ug/L	0.00
37) Toluene-d8	7.36	98	52175	4.49	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.67	79	8029	4.53	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	9275	9.60	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	18573	4.72	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.68	152	18969	5.03	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	20336	5.121 ug/L	99
3) Chloromethane	1.25	50	21926	5.123 ug/L	100
5) Vinyl chloride	1.32	62	20629	4.831 ug/L	99
6) Bromomethane	1.51	94	8470	4.156 ug/L	95
8) Chloroethane	1.58	64	12241	5.358 ug/L	91
9) Trichlorofluoromethane	1.76	101	28398	4.798 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	15911	4.661 ug/L	100
12) 1,1-Dichloroethene	2.14	96	14521	4.664 ug/L	# 84
13) Acetone	2.19	43	20346	8.748 ug/L	98
14) Carbon disulfide	2.32	76	54076	4.537 ug/L	100
15) Methyl Acetate	2.46	43	15126	5.364 ug/L	95
16) Methylene chloride	2.54	84	25346	5.636 ug/L	100
17) Methyl tert-butyl Ether	2.81	73	40182	4.781 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	16251	4.587 ug/L	93
19) 1,1-Dichloroethane	3.23	63	30890	4.581 ug/L	97
21) 2-Butanone	4.02	43	18462	7.825 ug/L	94
22) cis-1,2-Dichloroethene	3.96	96	16475	4.528 ug/L	90
23) Bromochloromethane	4.30	128	7512	4.602 ug/L	94
25) Chloroform	4.43	83	31048	4.657 ug/L	96
27) 1,2-Dichloroethane	5.18	62	22232	4.647 ug/L	98
30) Cyclohexane	4.73	56	28376	4.344 ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	26943	4.498 ug/L	99
32) Carbon tetrachloride	4.88	117	23691	4.473 ug/L	97
34) Benzene	5.15	78	64197	4.544 ug/L	100
35) Trichloroethene	5.96	95	16994	4.436 ug/L	97
36) Methylcyclohexane	6.18	83	27820	4.345 ug/L	99
40) 1,2-Dichloropropane	6.22	63	17046	4.581 ug/L	99
41) Bromodichloromethane	6.56	83	21265	4.421 ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	24075	4.431 ug/L	96
43) 4-Methyl-2-pentanone	7.27	43	33259	9.344 ug/L	99

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Quant Title : VOC Analysis
QLast Update : Wed Feb 13 14:20:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	66491	4.485	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	19968	4.124	ug/L	95
46) 1,1,2-Trichloroethane	7.88	97	13733	4.849	ug/L	97
47) Tetrachloroethene	8.02	164	13497	4.672	ug/L	94
49) 2-Hexanone	8.19	43	23723	7.772	ug/L	90
50) Dibromochloromethane	8.29	129	14540	4.471	ug/L	89
51) 1,2-Dibromoethane	8.40	107	13391	4.717	ug/L	94
52) Chlorobenzene	8.93	112	44166	4.715	ug/L	96
53) Ethylbenzene	9.06	91	73286	4.462	ug/L	95
54) m,p-Xylene	9.18	106	26941	4.455	ug/L	99
55) o-xylene	9.59	106	24551	4.290	ug/L	97
56) Styrene	9.60	104	40793	4.234	ug/L	98
57) Isopropylbenzene	9.98	105	68762	4.379	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	20375	4.929	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	16245	5.023	ug/L	100
62) Bromoform	9.78	173	9015	4.736	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	32547	4.779	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	33171	4.819	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	31708	4.973	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	3990	4.952	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	23586	4.664	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	16340	4.147	ug/L	92
69) Naphthalene	13.56	128	29232	3.679	ug/L	98
70) 1,2,3-Trichlorobenzene	13.80	180	16838	4.703	ug/L	95

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

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```
ALS Vial      : 1      Sample Multiplier: 1
```

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

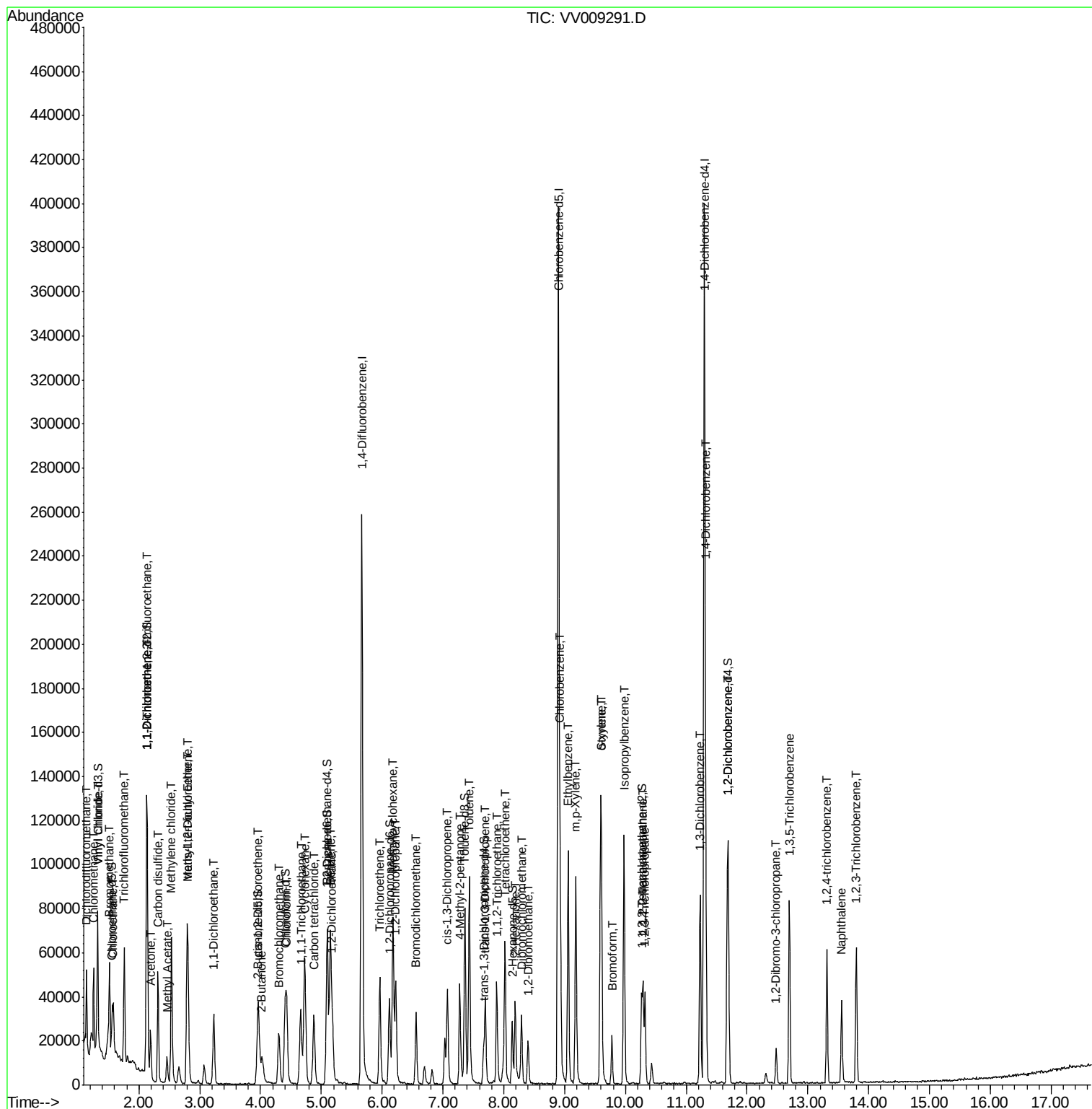
Quant Time: Feb 13 14:23:45 2019

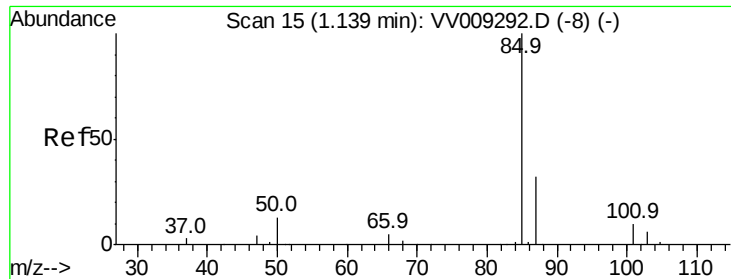
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM021319S.M

Quant Title : VOC Analysis

QLast Update : Wed Feb 13 14:20:21 2019

Response via : Initial Calibration

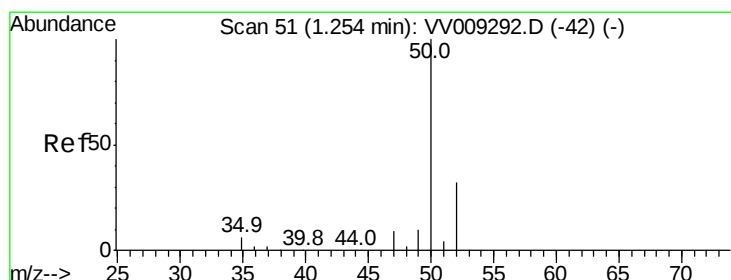
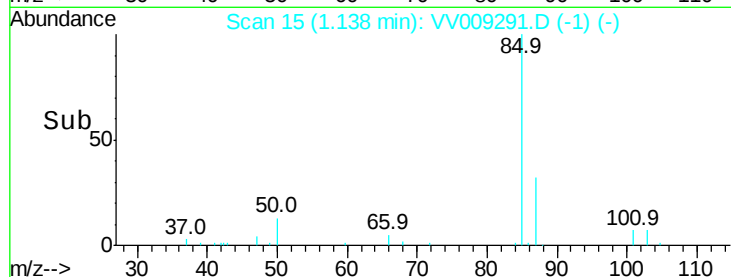
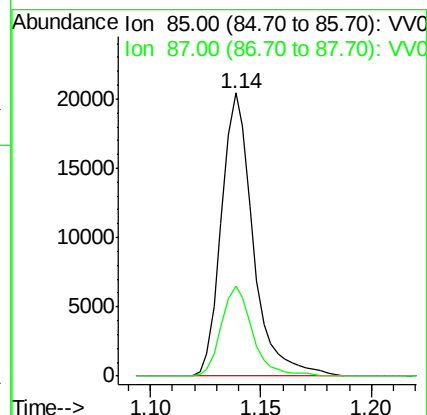
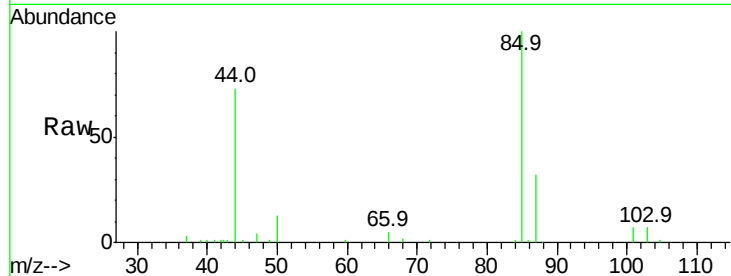




#2
Dichlorodifluoromethane
Concen: 5.121 ug/L
RT: 1.14 min Scan# 15
Delta R.T. -0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

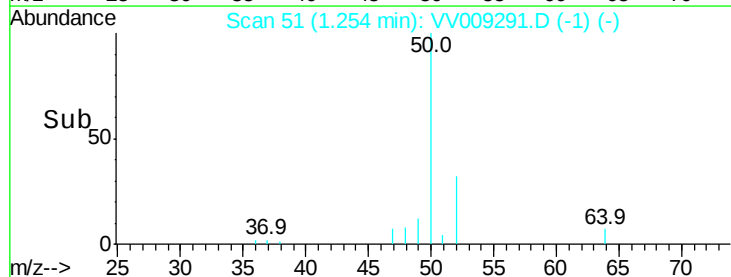
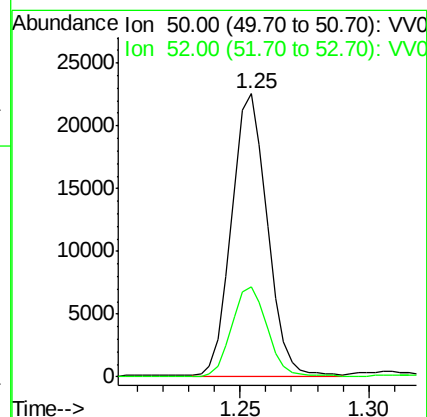
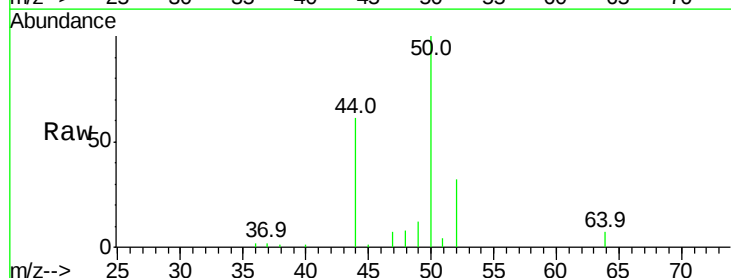
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

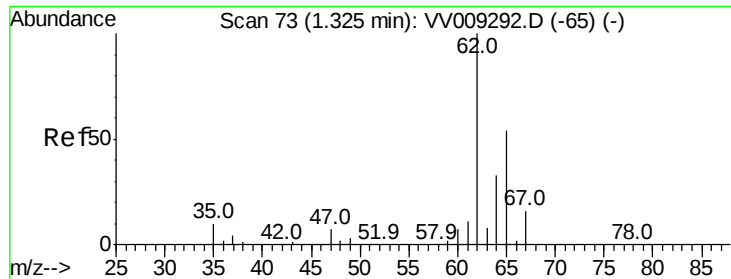
Tgt Ion: 85 Resp: 20336
Ion Ratio Lower Upper
85 100
87 31.3 22.2 41.2



#3
Chloromethane
Concen: 5.123 ug/L
RT: 1.25 min Scan# 51
Delta R.T. -0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

Tgt Ion: 50 Resp: 21926
Ion Ratio Lower Upper
50 100
52 32.0 22.3 41.5





#5

Vinyl chloride

Concen: 4.831 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

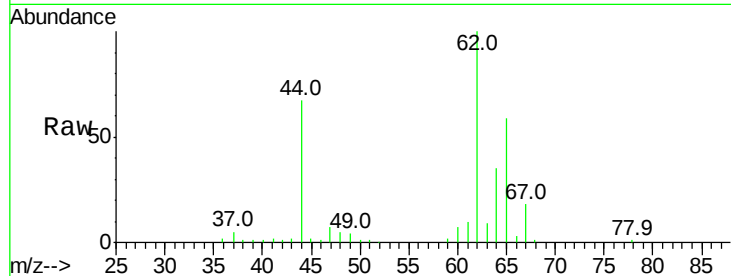
VSTD00562

Tgt Ion: 62 Resp: 20629

Ion Ratio Lower Upper

62 100

64 35.3 24.2 45.0



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

25000

20000

15000

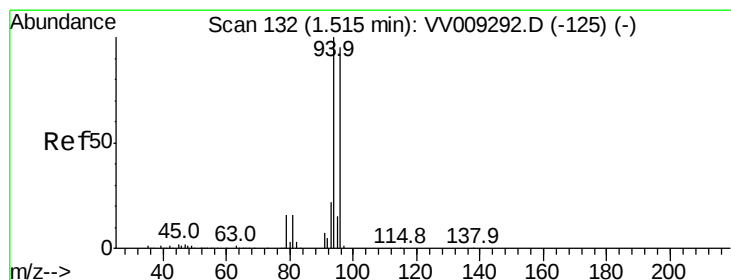
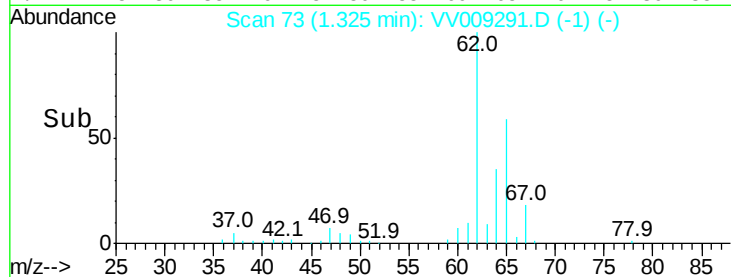
10000

5000

0

Time-->

1.30 1.32 1.35



#6

Bromomethane

Concen: 4.156 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV009291.D

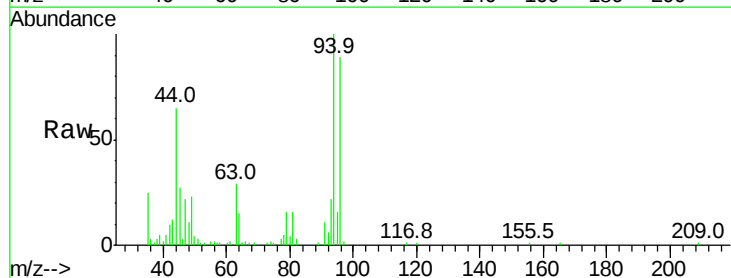
Acq: 13 Feb 2019 13:25

Tgt Ion: 94 Resp: 8470

Ion Ratio Lower Upper

94 100

96 90.9 9.6 182.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

10000

8000

6000

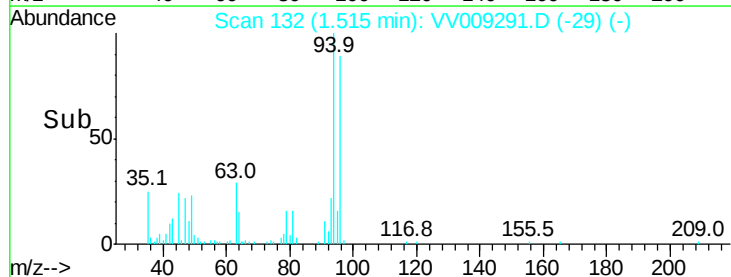
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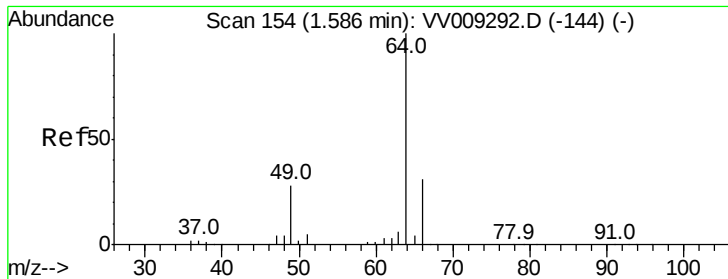
2000

0

Time-->

1.50 1.51 1.55





#8

Chloroethane

Concen: 5.358 ug/L

RT: 1.58 min Scan# 153

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

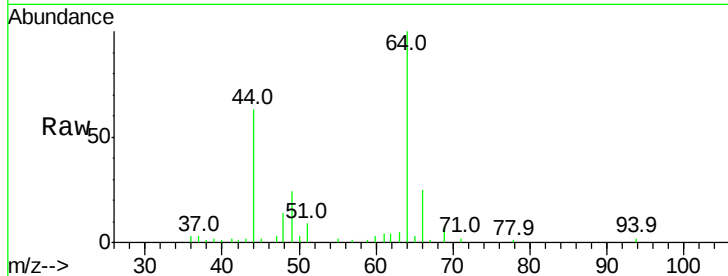
VSTD00562

Tgt Ion: 64 Resp: 12241

Ion Ratio Lower Upper

64 100

66 25.1 21.1 39.3



Abundance Ion 64.00 (63.70 to 64.70): VV009292.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV009292.D (-144) (-)

1.58

15000

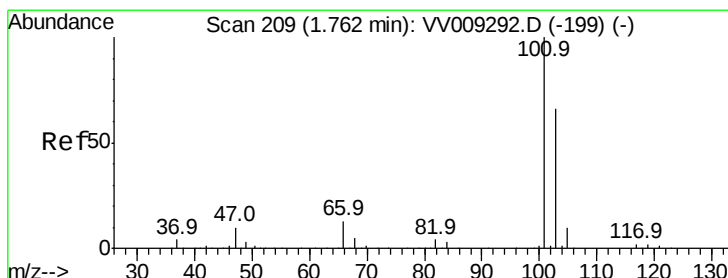
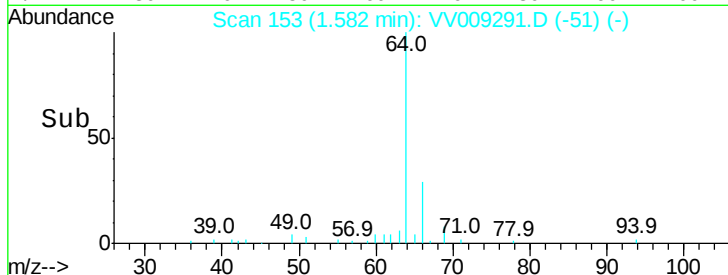
10000

5000

0

Time-->

1.55 1.60



#9

Trichlorofluoromethane

Concen: 4.798 ug/L

RT: 1.76 min Scan# 208

Delta R.T. -0.00 min

Lab File: VV009291.D

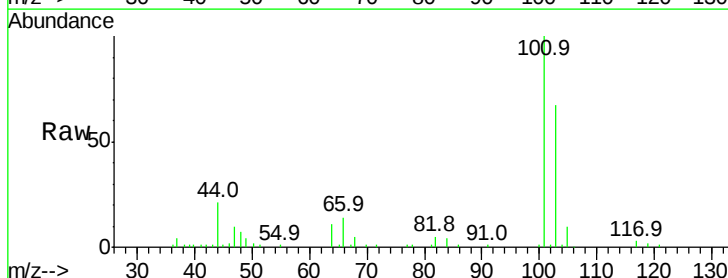
Acq: 13 Feb 2019 13:25

Tgt Ion: 101 Resp: 28398

Ion Ratio Lower Upper

101 100

103 64.9 45.8 85.2



Abundance Ion 101.00 (100.70 to 101.70): VV009292.D (-199) (-)

Ion 103.00 (102.70 to 103.70): VV009292.D (-199) (-)

1.76

25000

20000

15000

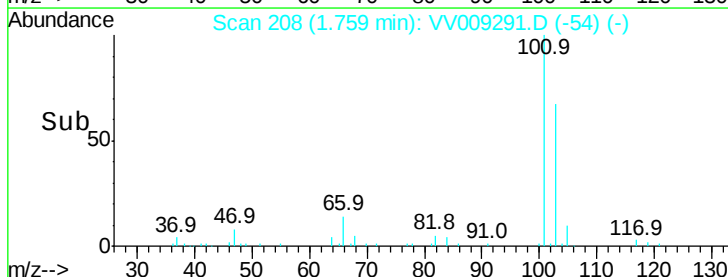
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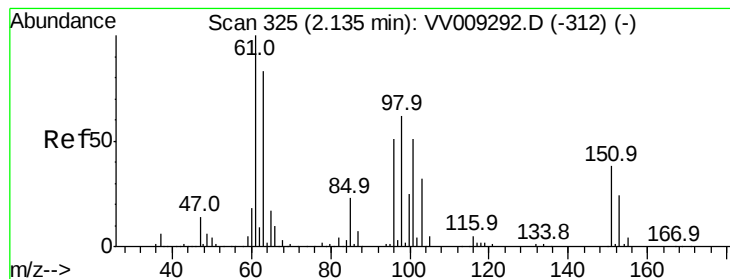
5000

0

Time-->

1.70 1.75 1.80





#11

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

Concen: 4.661 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

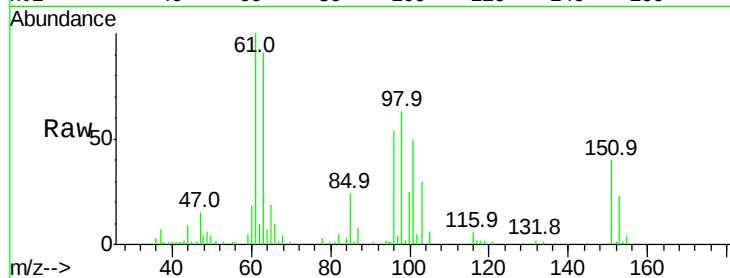
Tgt Ion: 101 Resp: 15911

Ion Ratio Lower Upper

101 100

85 45.8 36.2 54.2

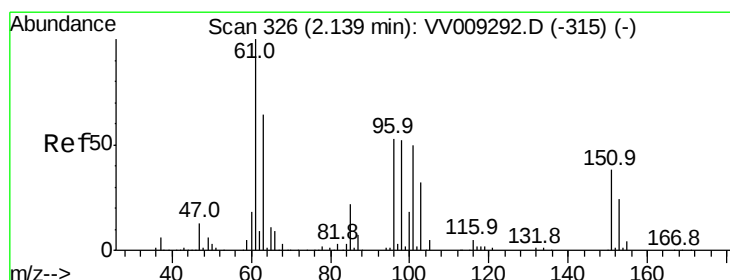
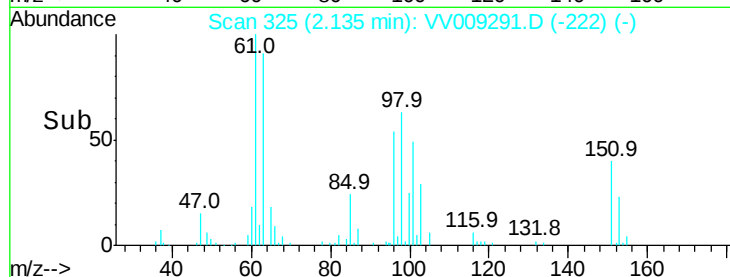
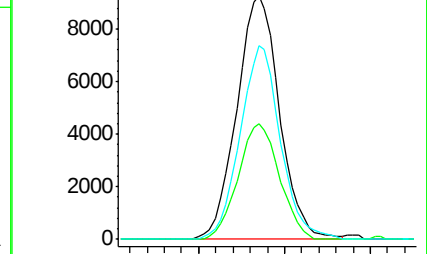
151 75.0 59.9 89.9



Abundance Ion 101.00 (100.70 to 101.70): VV009291.D (-222) (-)

Ion 85.00 (84.70 to 85.70): VV009291.D (-222) (-)

Ion 151.00 (150.70 to 151.70): VV009291.D (-222) (-)



#12

1,1-Dichloroethene

Concen: 4.664 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

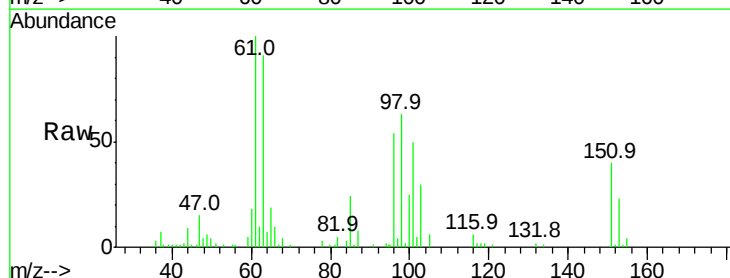
Tgt Ion: 96 Resp: 14521

Ion Ratio Lower Upper

96 100

61 183.5 131.8 244.8

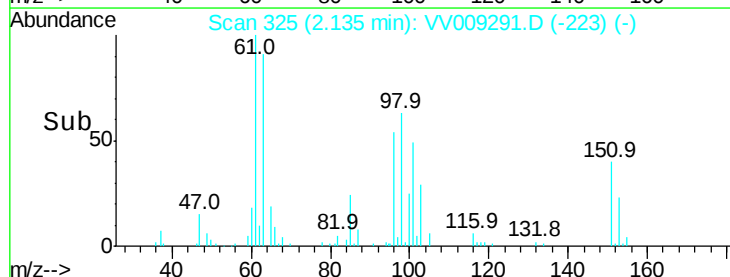
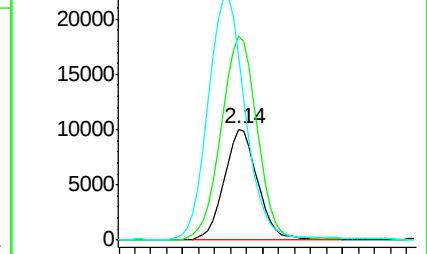
63 167.0 88.8 165.0#

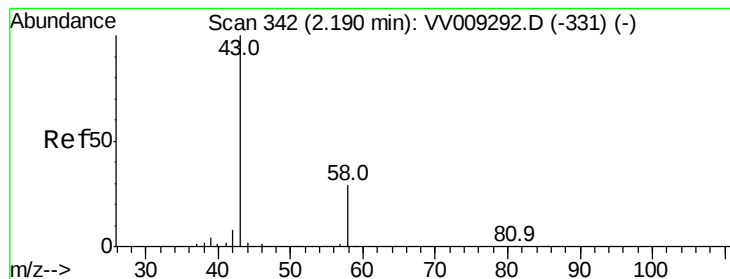


Abundance Ion 96.00 (95.70 to 96.70): VV009291.D (-223) (-)

Ion 61.00 (60.70 to 61.70): VV009291.D (-223) (-)

Ion 63.00 (62.70 to 63.70): VV009291.D (-223) (-)





#13

Acetone

Concen: 8.748 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

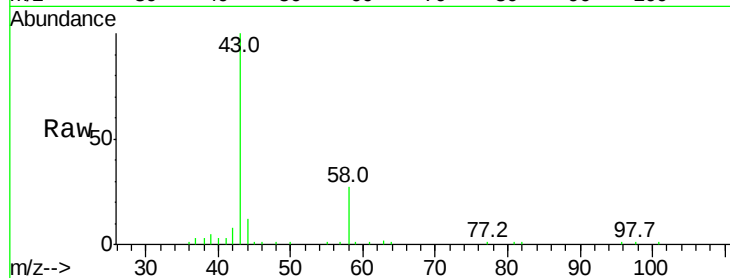
VSTD00562

Tgt Ion: 43 Resp: 20346

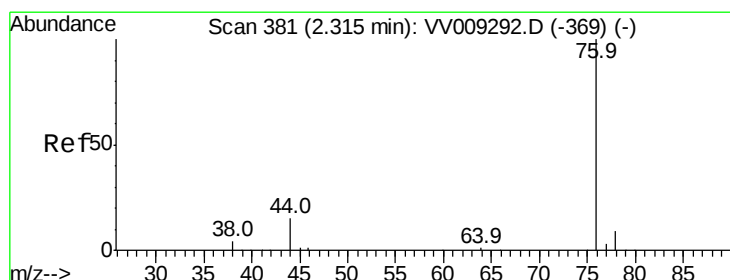
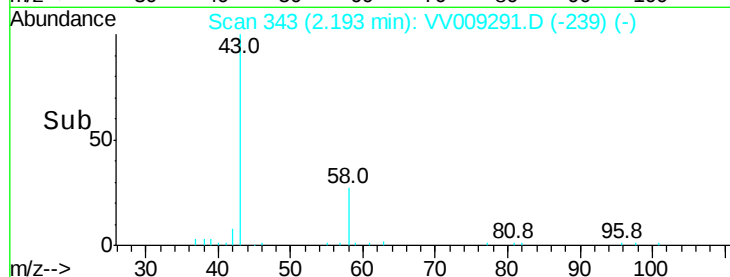
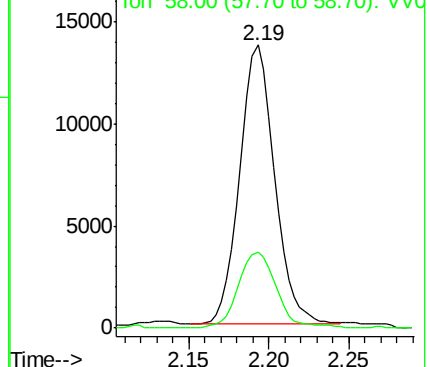
Ion Ratio Lower Upper

43 100

58 29.6 0.0 57.2



Abundance Ion 43.00 (42.70 to 43.70): VV009291.D (-239) (-)



#14

Carbon disulfide

Concen: 4.537 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009291.D

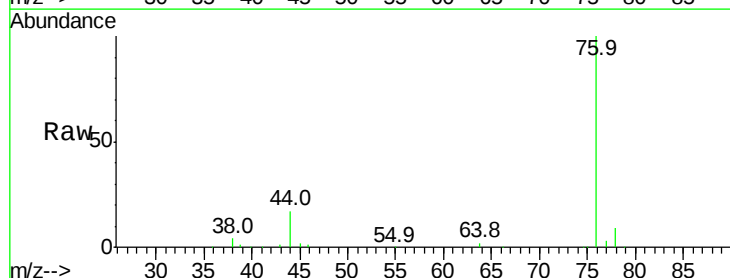
Acq: 13 Feb 2019 13:25

Tgt Ion: 76 Resp: 54076

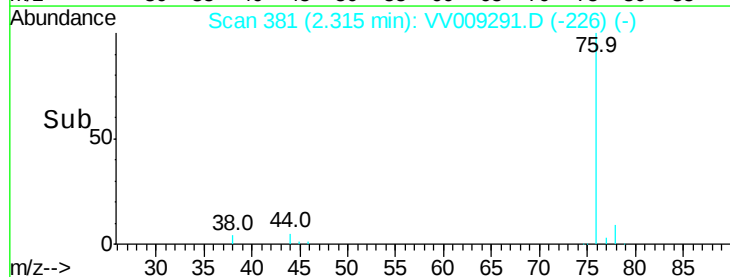
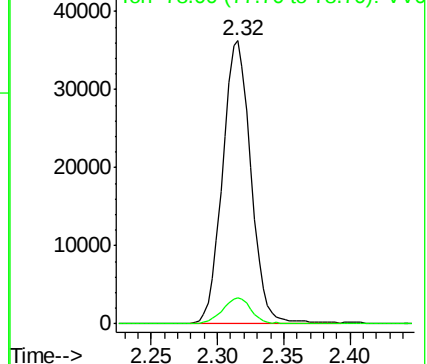
Ion Ratio Lower Upper

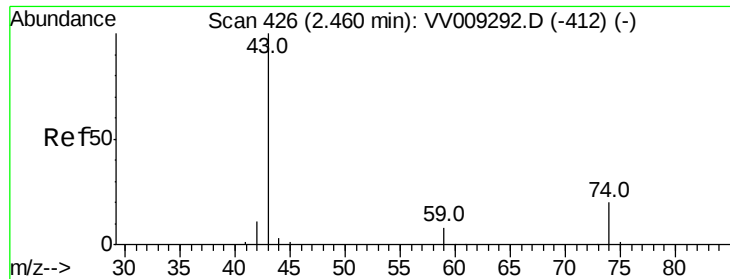
76 100

78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV009291.D (-226) (-)

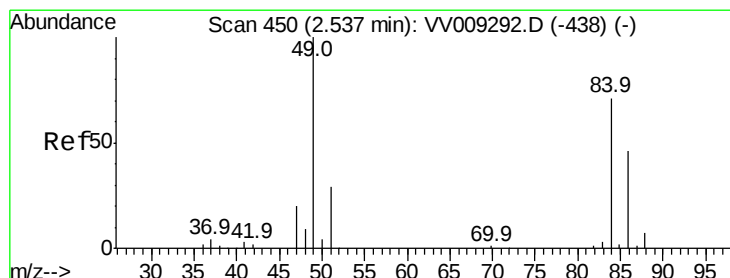
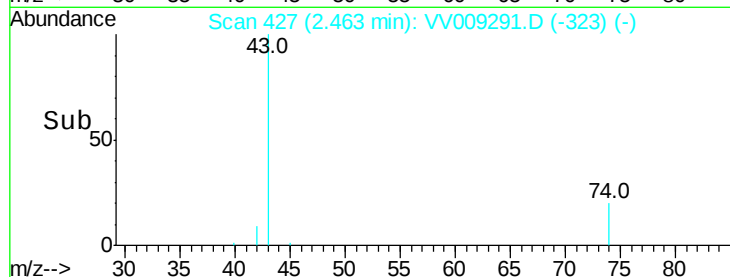
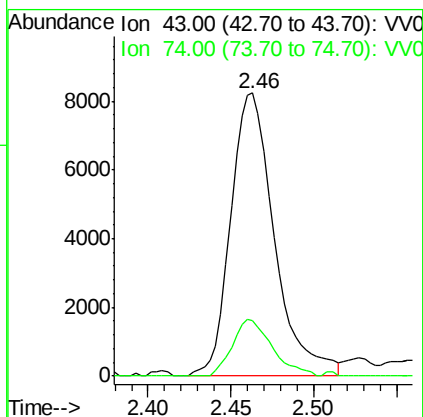
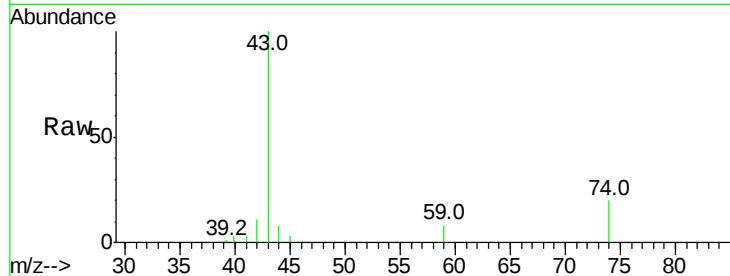




#15
Methyl Acetate
Concen: 5.364 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

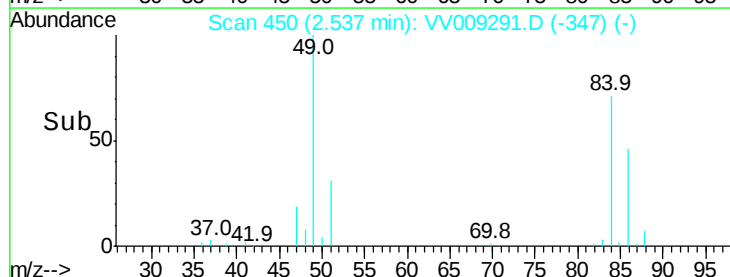
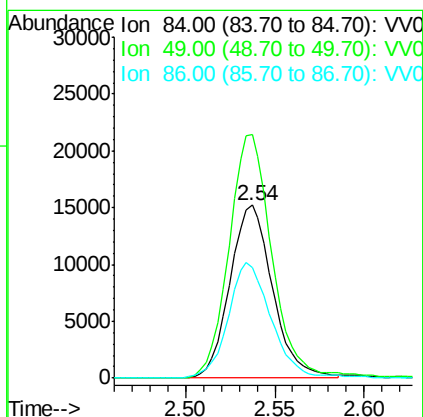
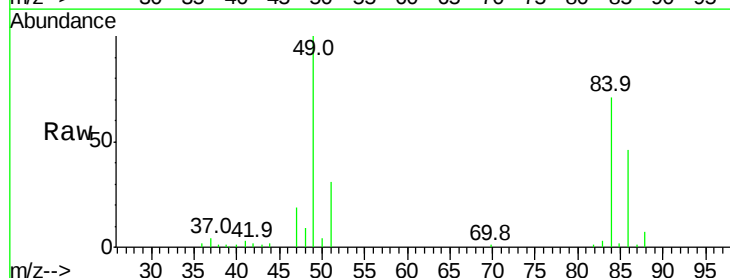
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

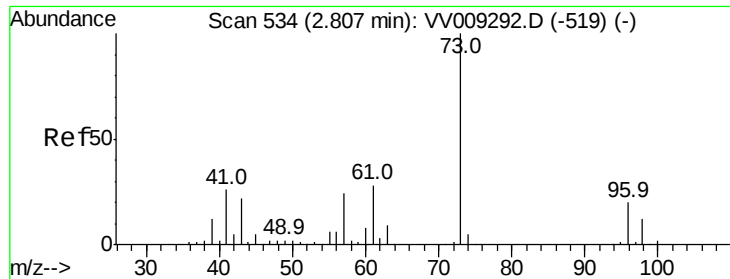
Tgt Ion: 43 Resp: 15126
Ion Ratio Lower Upper
43 100
74 18.1 16.3 24.5



#16
Methylene chloride
Concen: 5.636 ug/L
RT: 2.54 min Scan# 450
Delta R.T. -0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

Tgt Ion: 84 Resp: 25346
Ion Ratio Lower Upper
84 100
49 141.0 98.4 182.8
86 64.2 45.1 83.7

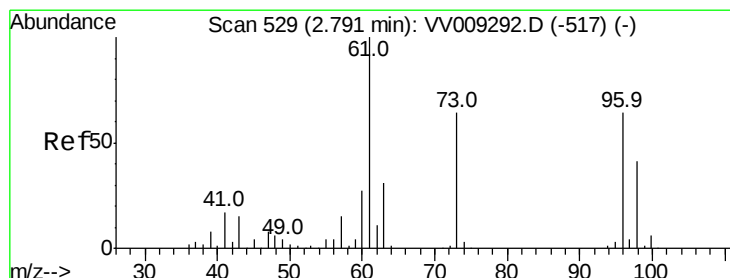
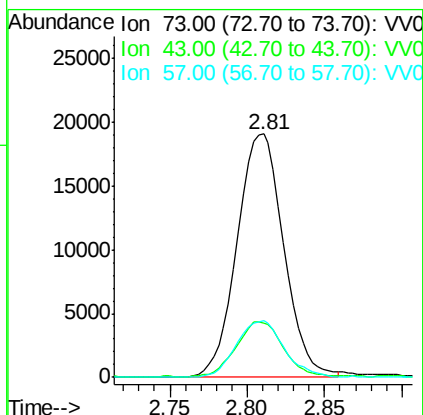
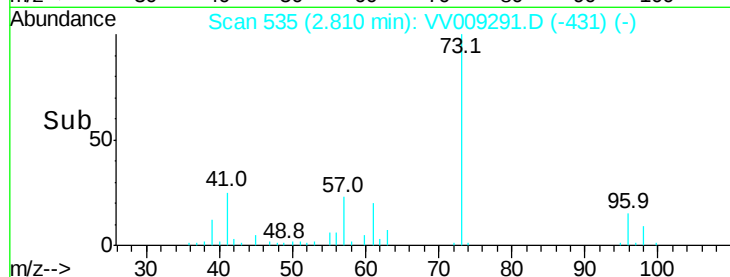
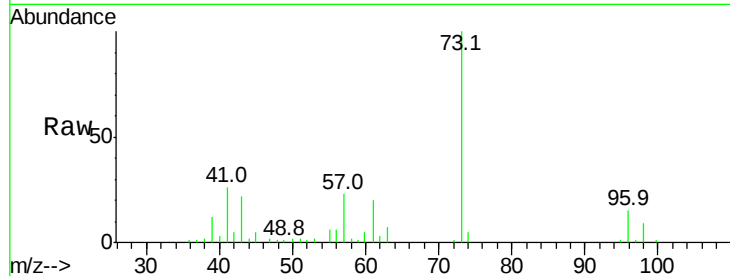




#17
Methyl tert-butyl Ether
Concen: 4.781 ug/L
RT: 2.81 min Scan# 535
Delta R.T. 0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

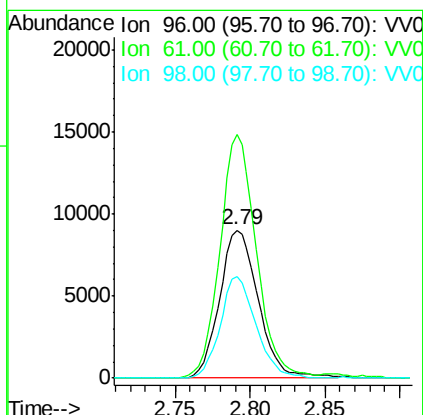
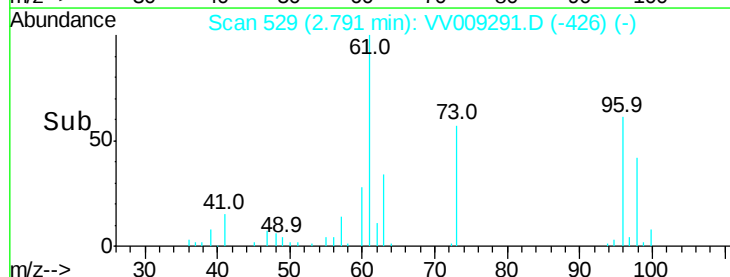
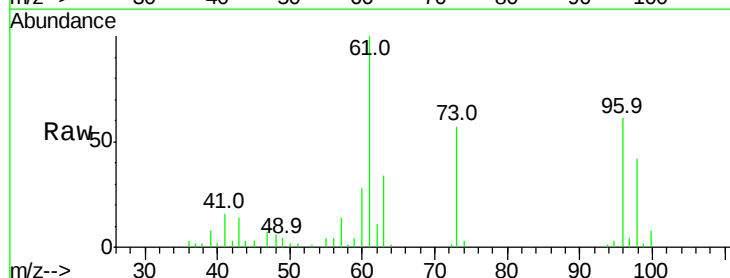
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

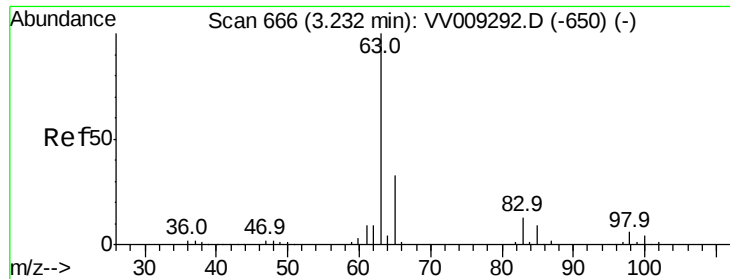
Tgt Ion: 73 Resp: 40182
Ion Ratio Lower Upper
73 100
43 23.2 18.2 27.4
57 23.6 19.0 28.4



#18
trans-1,2-Dichloroethene
Concen: 4.587 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

Tgt Ion: 96 Resp: 16251
Ion Ratio Lower Upper
96 100
61 164.7 109.0 202.4
98 68.9 44.3 82.3

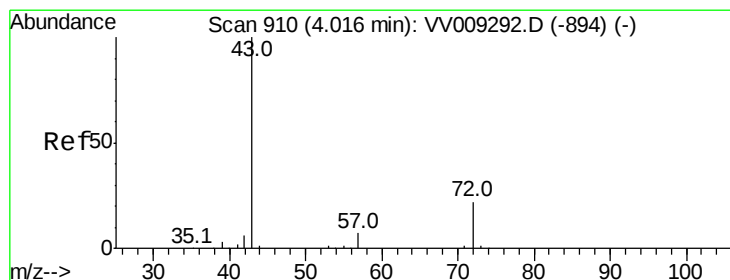
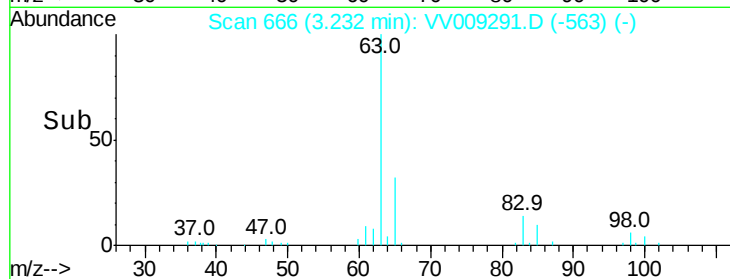
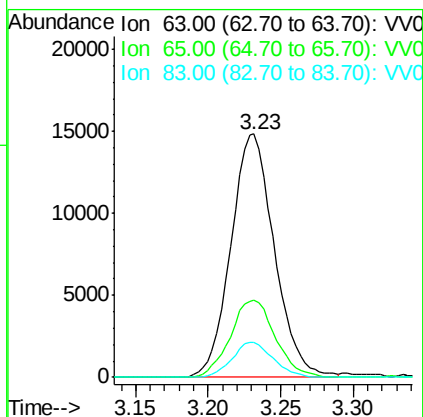
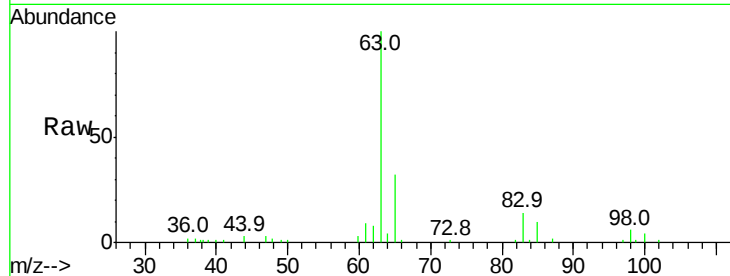




#19
 1,1-Dichloroethane
 Concen: 4.581 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. -0.00 min
 Lab File: VV009291.D
 Acq: 13 Feb 2019 13:25

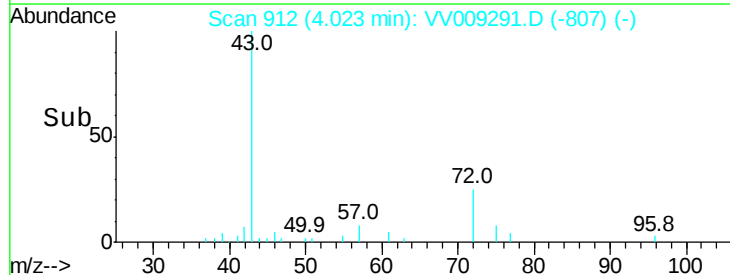
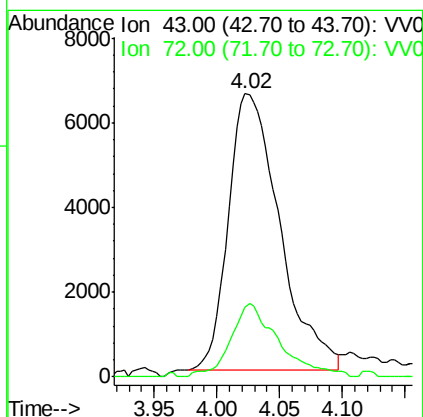
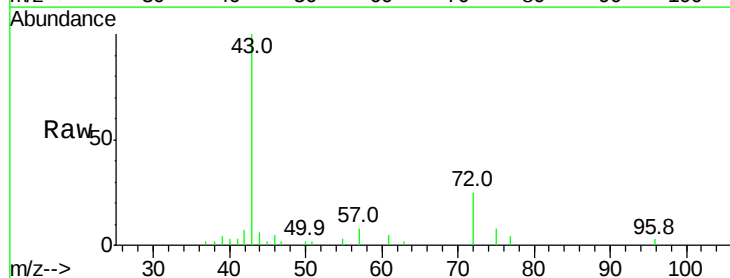
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

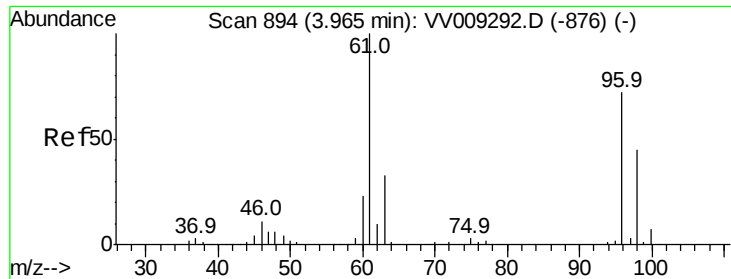
Tgt Ion: 63 Resp: 30890
 Ion Ratio Lower Upper
 63 100
 65 31.6 23.3 43.3
 83 14.4 9.1 16.9



#21
 2-Butanone
 Concen: 7.825 ug/L
 RT: 4.02 min Scan# 912
 Delta R.T. 0.01 min
 Lab File: VV009291.D
 Acq: 13 Feb 2019 13:25

Tgt Ion: 43 Resp: 18462
 Ion Ratio Lower Upper
 43 100
 72 19.4 11.3 33.8



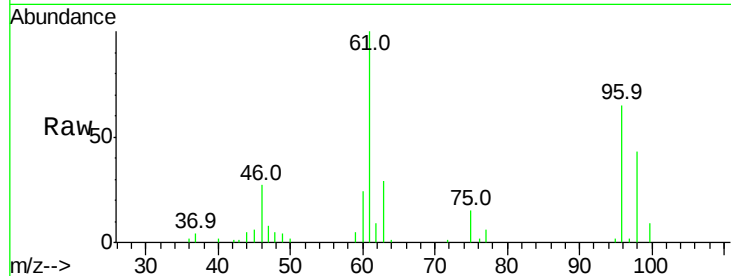


#22

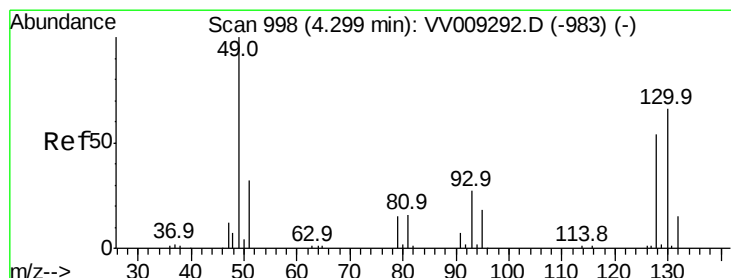
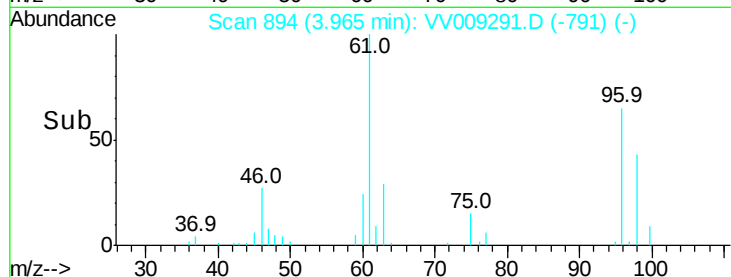
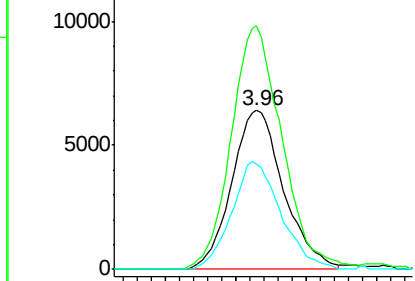
cis-1,2-Dichloroethene
Concen: 4.528 ug/L
RT: 3.96 min Scan# 894
Delta R.T. -0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Tgt Ion: 96 Resp: 16475
Ion Ratio Lower Upper
96 100
61 153.4 96.9 179.9
98 66.7 44.0 81.8



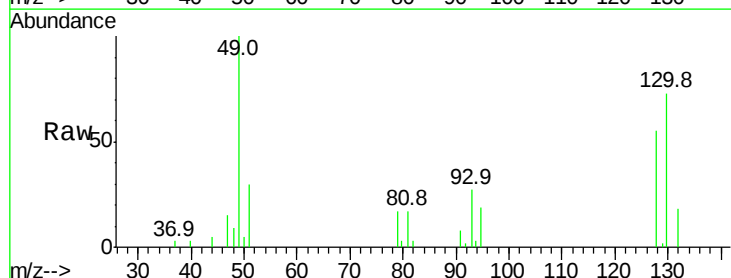
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



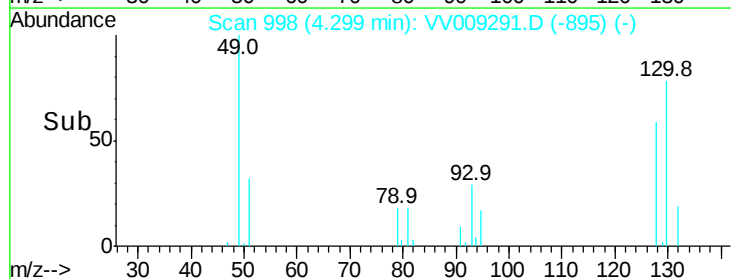
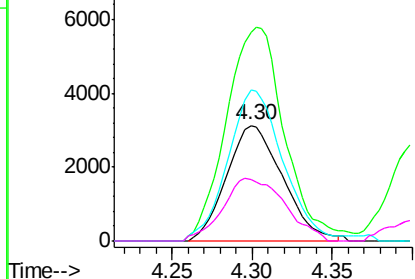
#23

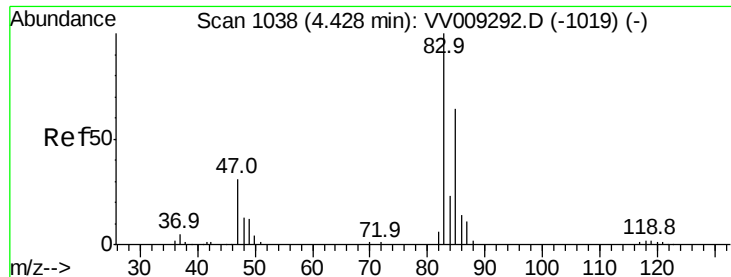
Bromochloromethane
Concen: 4.602 ug/L
RT: 4.30 min Scan# 998
Delta R.T. -0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

Tgt Ion: 128 Resp: 7512
Ion Ratio Lower Upper
128 100
49 180.4 130.6 242.6
130 130.9 85.9 159.5
51 53.3 47.2 70.8



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

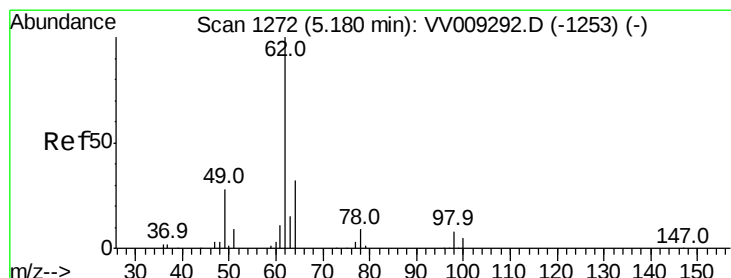
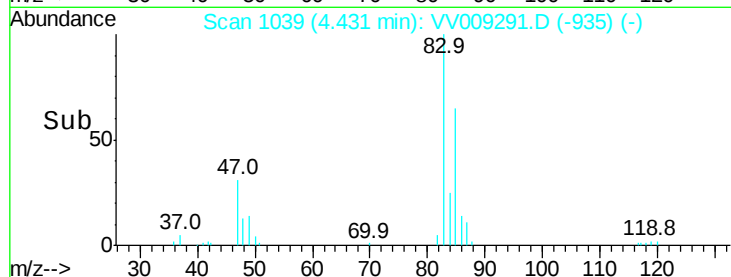
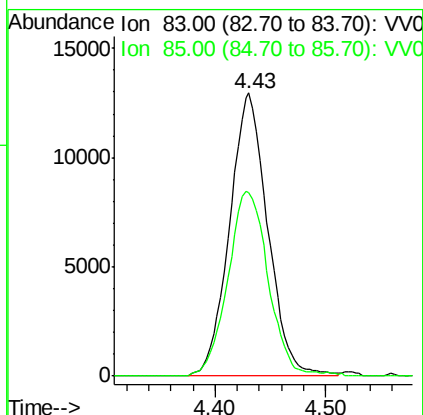
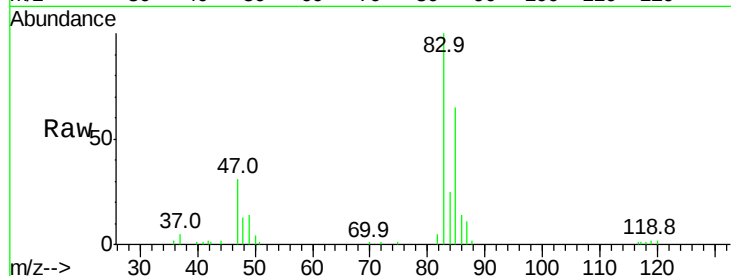




#25
Chloroform
Concen: 4.657 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. 0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

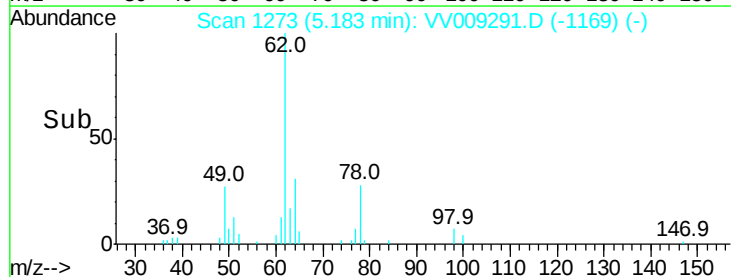
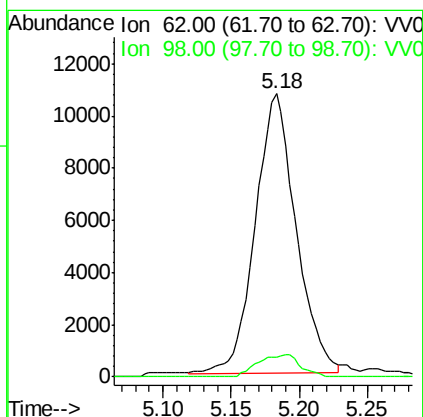
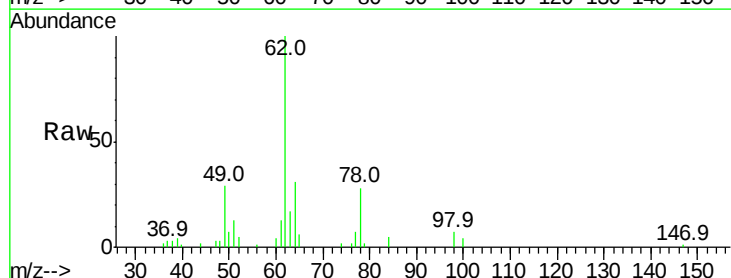
Instrument :
MSVOA_V
ClientSampled :
VSTD00562

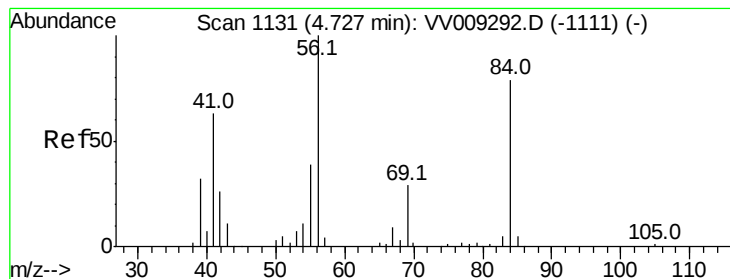
Tgt Ion: 83 Resp: 31048
Ion Ratio Lower Upper
83 100
85 68.4 45.6 84.6



#27
1,2-Dichloroethane
Concen: 4.647 ug/L
RT: 5.18 min Scan# 1273
Delta R.T. 0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

Tgt Ion: 62 Resp: 22232
Ion Ratio Lower Upper
62 100
98 6.9 6.2 9.4





#30

Cyclohexane

Concen: 4.344 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

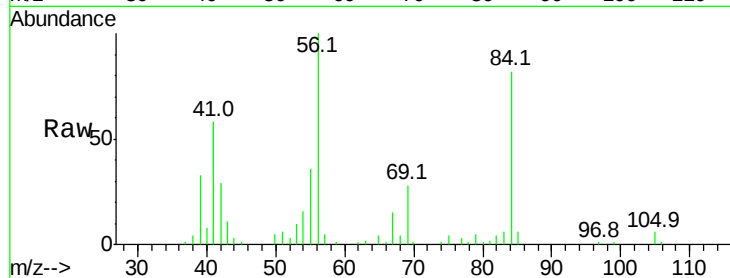
Tgt Ion: 56 Resp: 28376

Ion Ratio Lower Upper

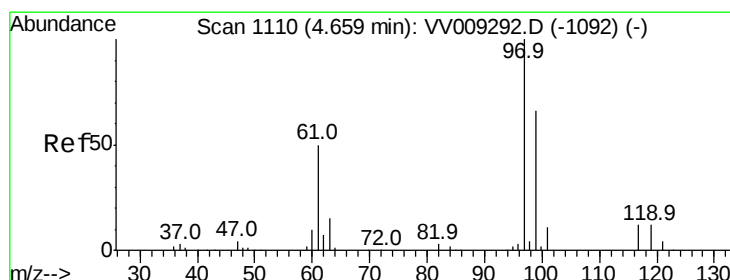
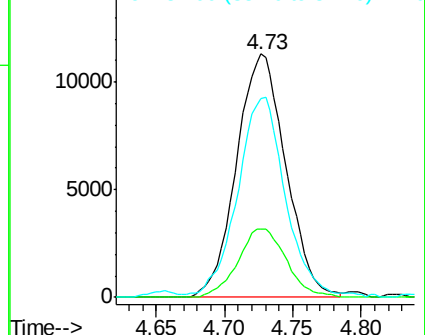
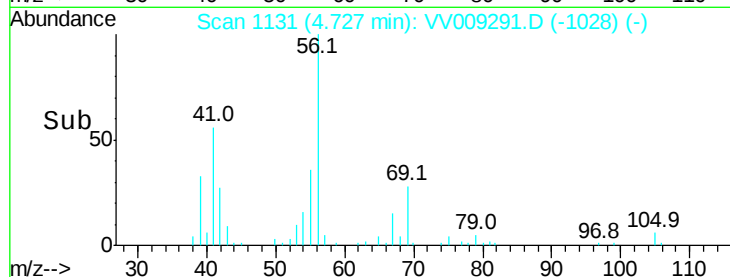
56 100

69 27.6 23.5 35.3

84 77.8 62.2 93.2



Abundance Ion 56.00 (55.70 to 56.70): VV009291.D (-1028) (-)



#31

1,1,1-Trichloroethane

Concen: 4.498 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

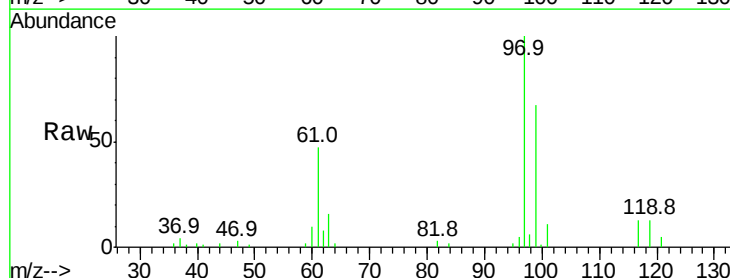
Tgt Ion: 97 Resp: 26943

Ion Ratio Lower Upper

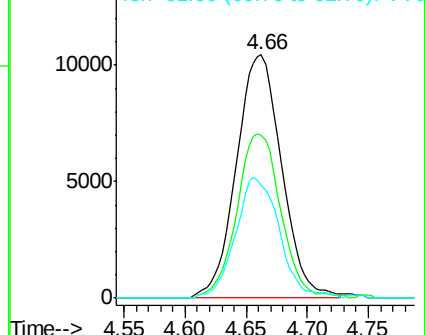
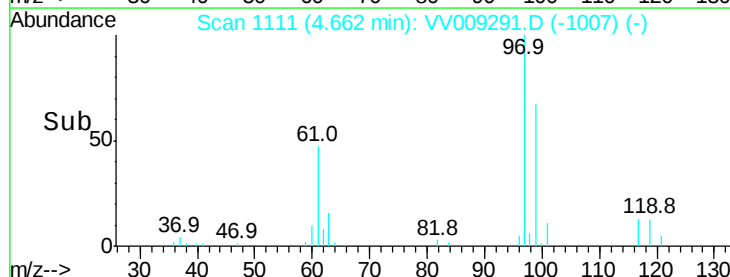
97 100

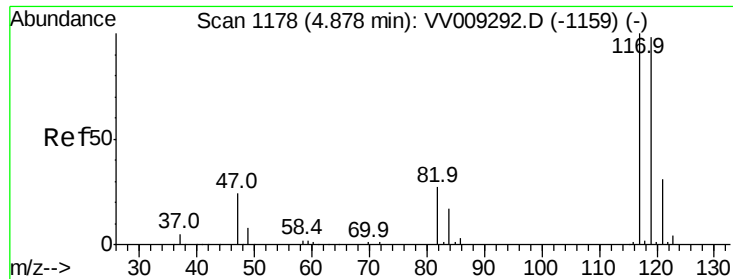
99 64.6 51.7 77.5

61 47.8 39.4 59.2



Abundance Ion 97.00 (96.70 to 97.70): VV009291.D (-1007) (-)





#32

Carbon tetrachloride

Concen: 4.473 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

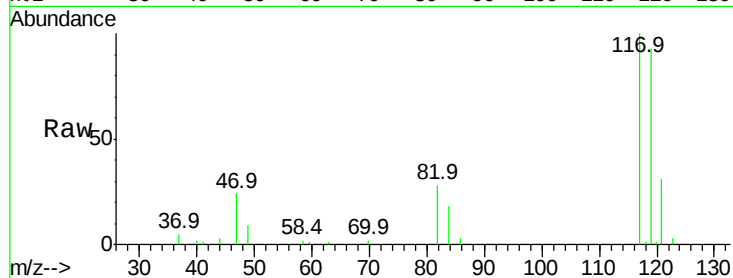
VSTD00562

Tgt Ion:117 Resp: 23691

Ion Ratio Lower Upper

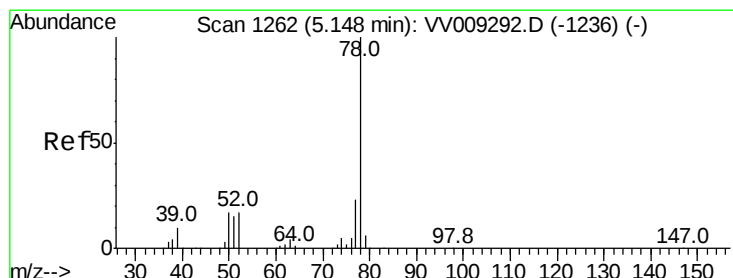
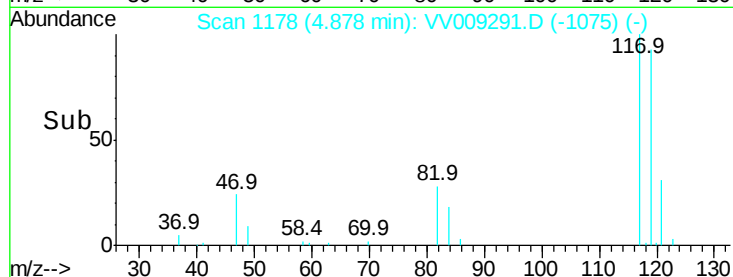
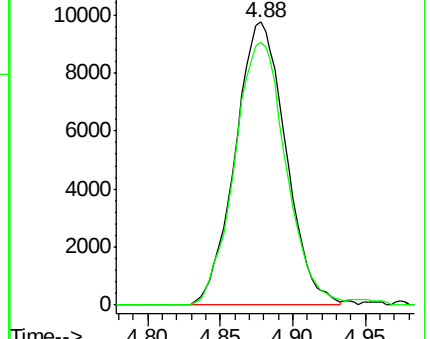
117 100

119 94.3 77.5 116.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 4.544 ug/L

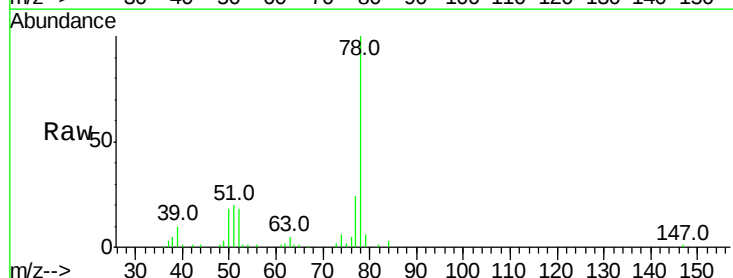
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

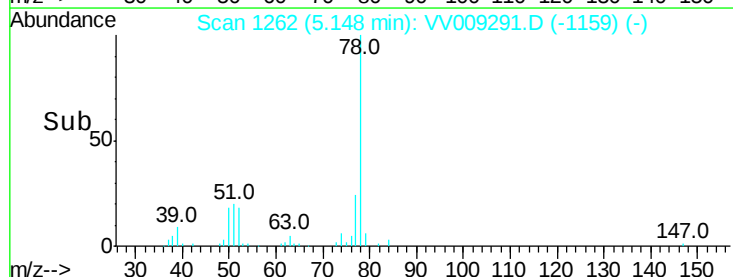
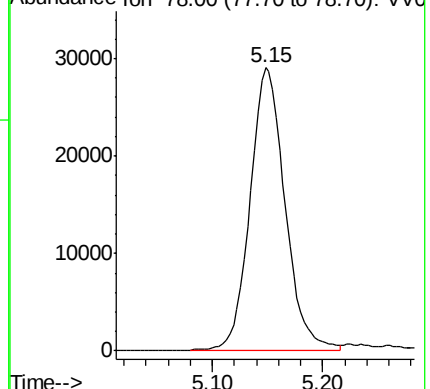
Lab File: VV009291.D

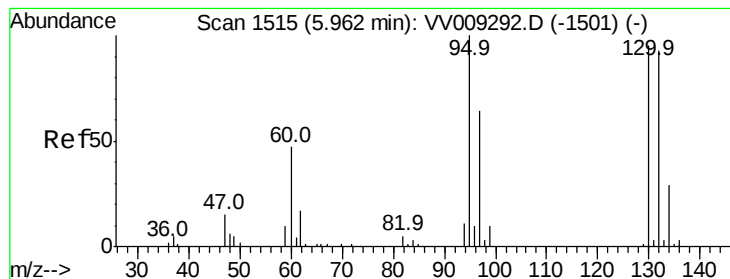
Acq: 13 Feb 2019 13:25

Tgt Ion: 78 Resp: 64197



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 4.436 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

Tgt Ion: 95 Resp: 16994

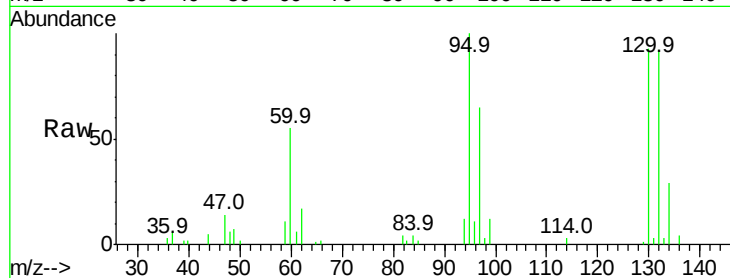
Ion Ratio Lower Upper

95 100

97 65.9 44.4 82.5

132 95.8 65.9 122.5

130 98.8 65.8 122.2



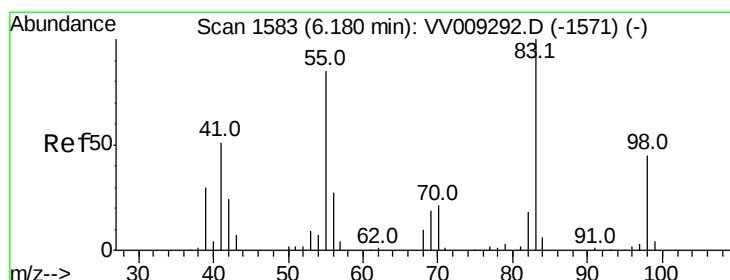
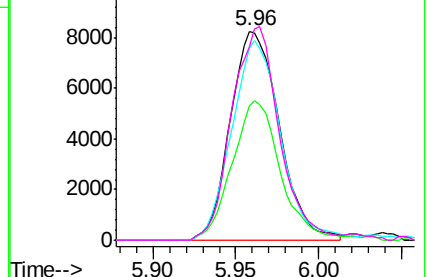
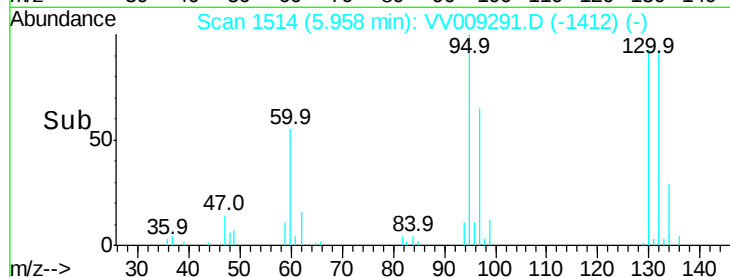
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Time-->



#36

Methylcyclohexane

Concen: 4.345 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

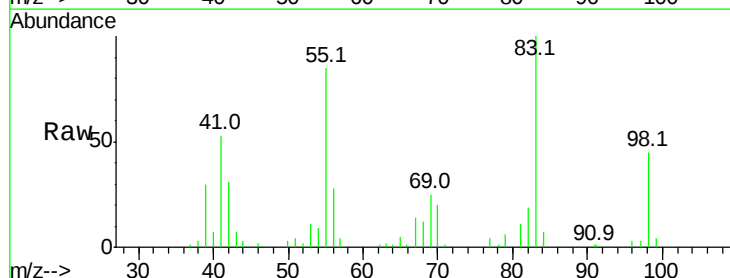
Tgt Ion: 83 Resp: 27820

Ion Ratio Lower Upper

83 100

55 87.3 70.6 105.8

98 46.0 36.7 55.1

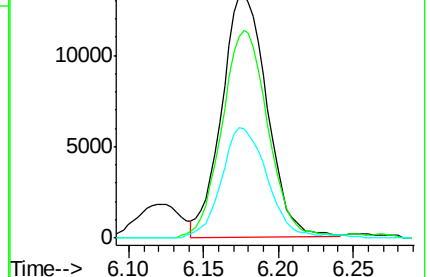
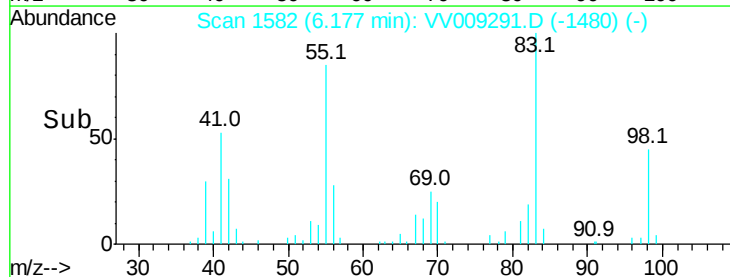


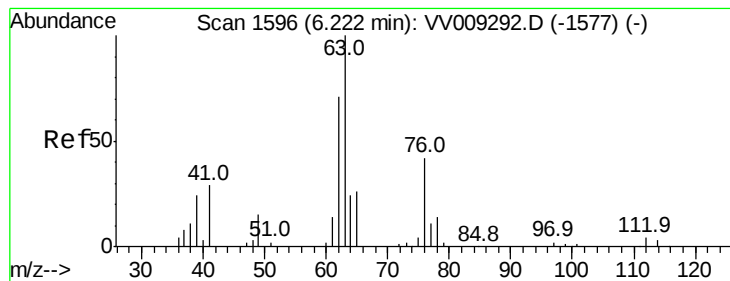
Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

Time-->





#40

1,2-Dichloropropane

Concen: 4.581 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

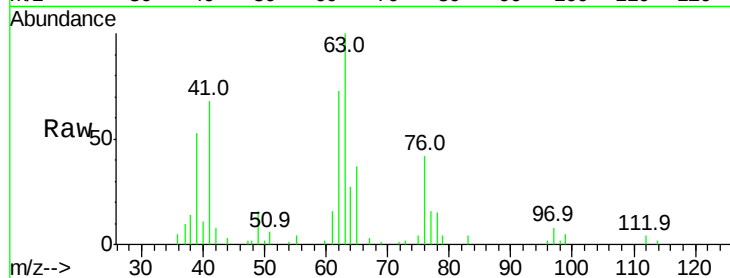
VSTD00562

Tgt Ion: 63 Resp: 17046

Ion Ratio Lower Upper

63 100

112 4.2 3.0 4.4



Abundance Ion 63.00 (62.70 to 63.70): VV009291.D (-1597) (-)

Ion 112.00 (111.70 to 112.70): VV009291.D (-1597) (-)

6.22

8000

6000

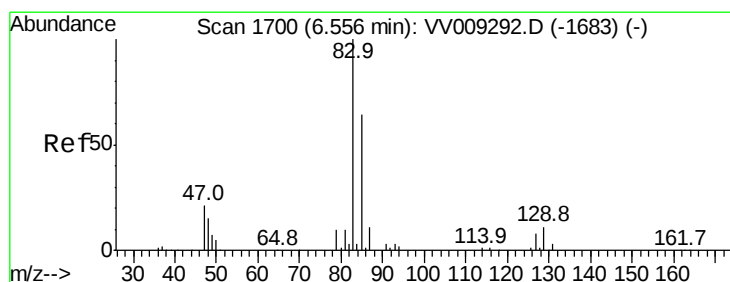
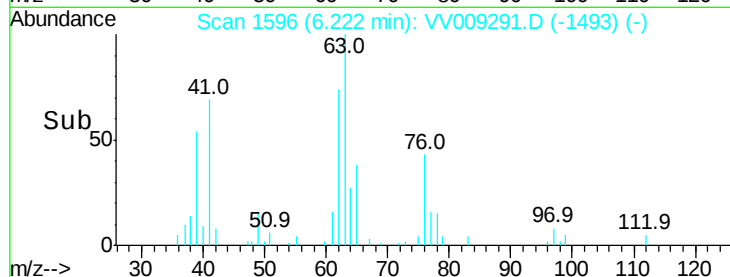
4000

2000

0

6.15 6.20 6.25 6.30

Time-->



#41

Bromodichloromethane

Concen: 4.421 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

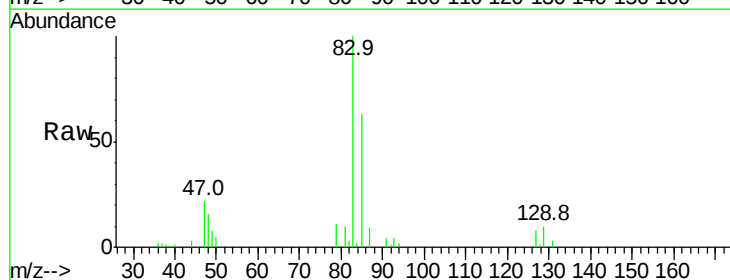
Tgt Ion: 83 Resp: 21265

Ion Ratio Lower Upper

83 100

85 63.2 45.0 83.6

127 8.5 6.4 9.6



Abundance Ion 83.00 (82.70 to 83.70): VV009291.D (-1697) (-)

Ion 85.00 (84.70 to 85.70): VV009291.D (-1697) (-)

Ion 127.00 (126.70 to 127.70): VV009291.D (-1697) (-)

6.56

15000

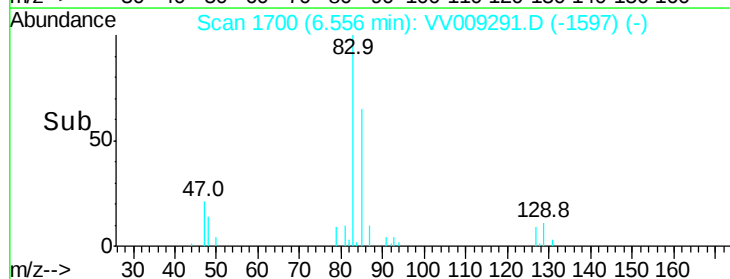
10000

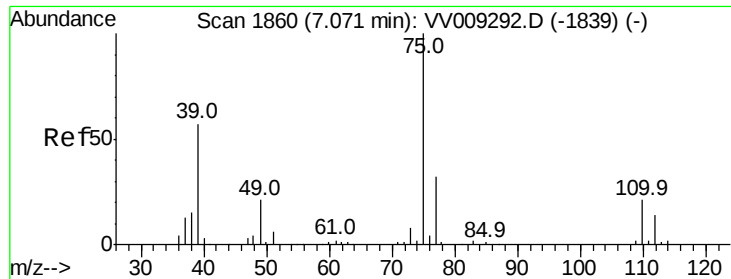
5000

0

6.50 6.55 6.60 6.65

Time-->



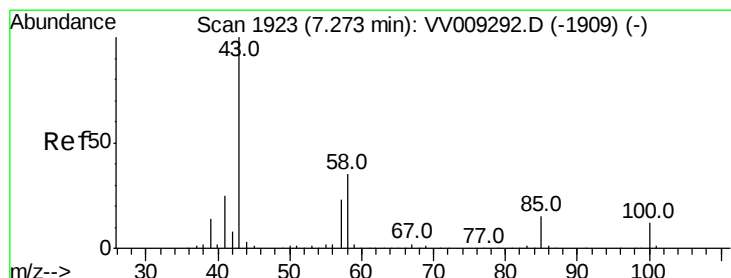
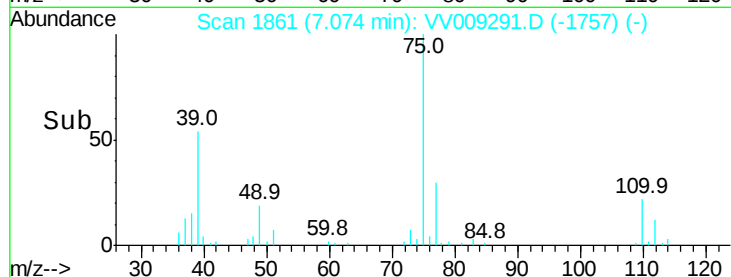
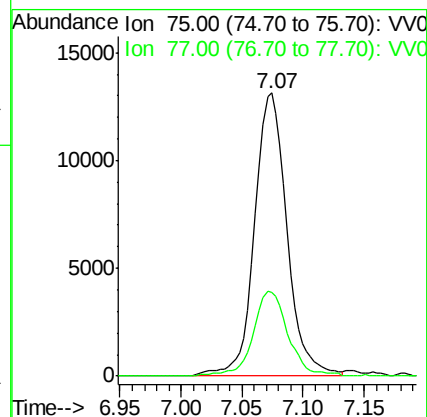
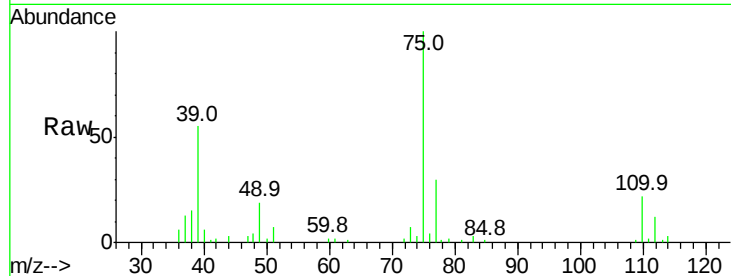


#42

cis-1,3-Dichloropropene
Concen: 4.431 ug/L
RT: 7.07 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

Instrument :
MSVOA_V
ClientSampled :
VSTD00562

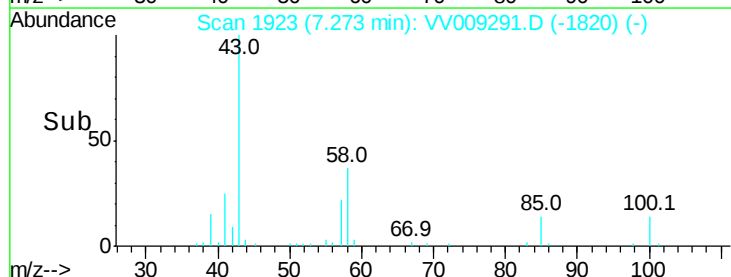
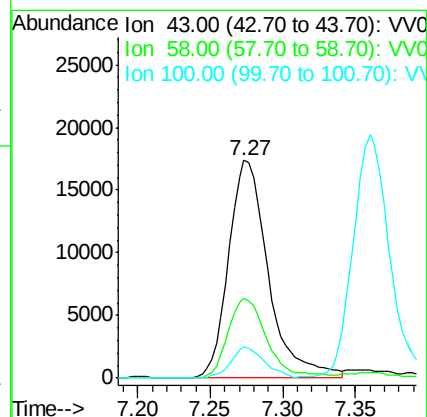
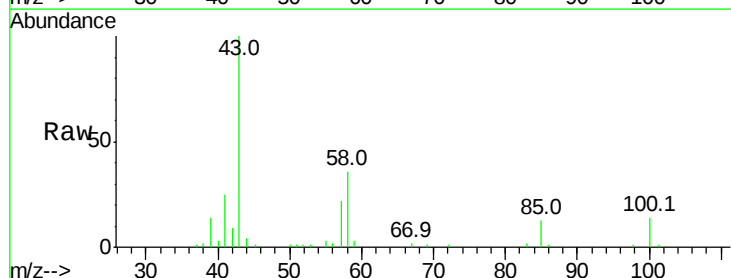
Tgt Ion: 75 Resp: 24075
Ion Ratio Lower Upper
75 100
77 29.6 22.2 41.2

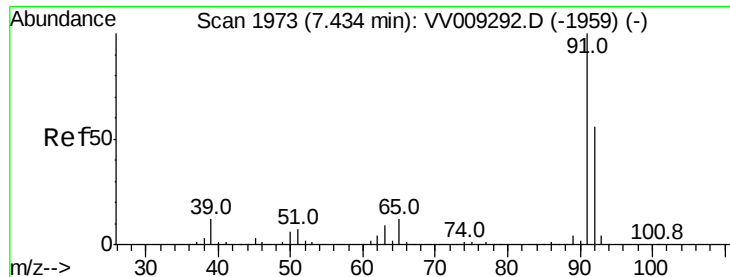


#43

4-Methyl-2-pentanone
Concen: 9.344 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

Tgt Ion: 43 Resp: 33259
Ion Ratio Lower Upper
43 100
58 34.9 28.4 42.6
100 12.0 9.6 14.4





#44

Toluene

Concen: 4.485 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

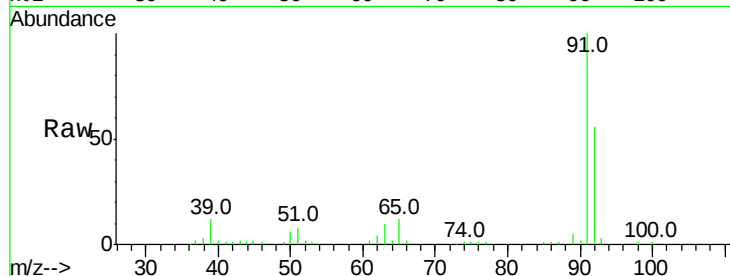
VSTD00562

Tgt Ion: 91 Resp: 66491

Ion Ratio Lower Upper

91 100

92 55.8 39.5 73.3



Abundance Ion 91.00 (90.70 to 91.70): VV009291.D (-1959) (-)

Ion 92.00 (91.70 to 92.70): VV009291.D (-1959) (-)

7.43

40000

30000

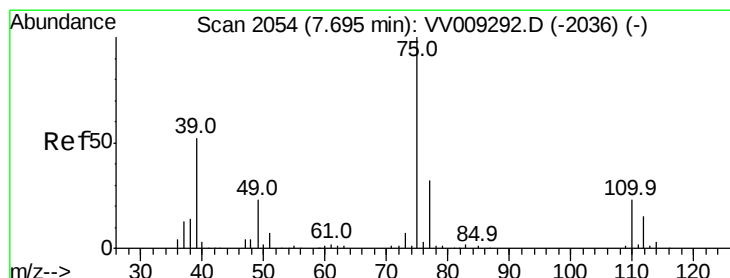
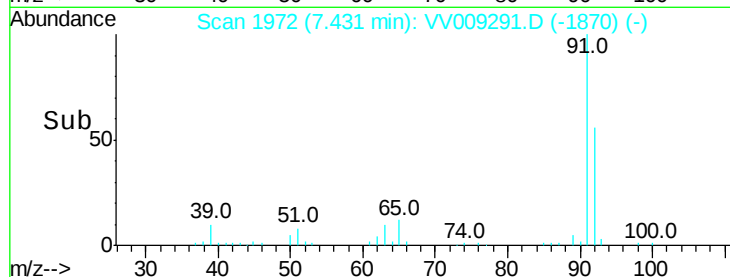
20000

10000

0

Time-->

7.35 7.40 7.45 7.50 7.55



#45

trans-1,3-Dichloropropene

Concen: 4.124 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009291.D

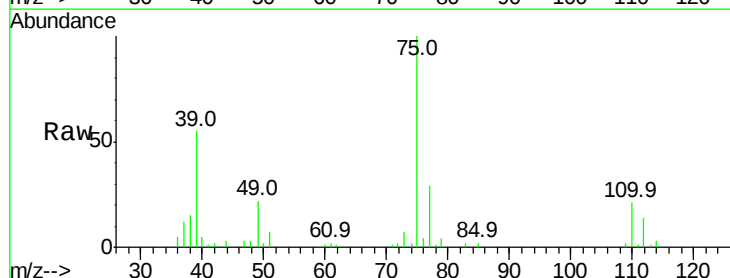
Acq: 13 Feb 2019 13:25

Tgt Ion: 75 Resp: 19968

Ion Ratio Lower Upper

75 100

77 29.3 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VV009291.D (-1951) (-)

Ion 77.00 (76.70 to 77.70): VV009291.D (-1951) (-)

7.69

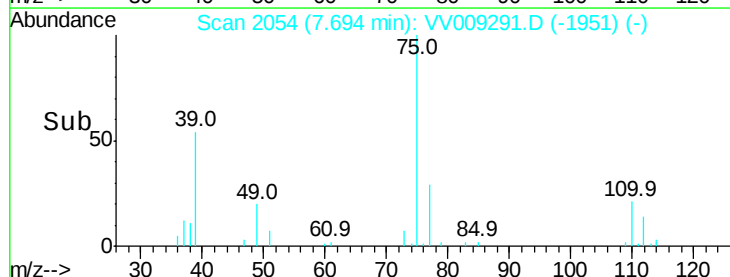
10000

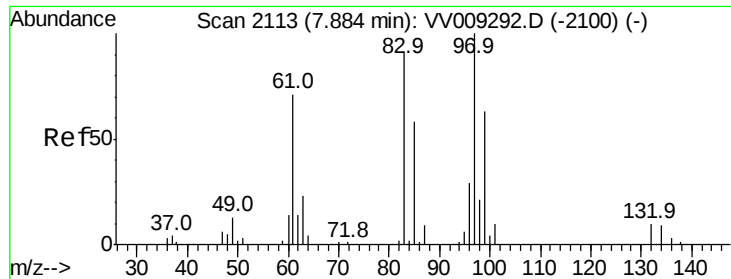
5000

0

Time-->

7.65 7.70 7.75

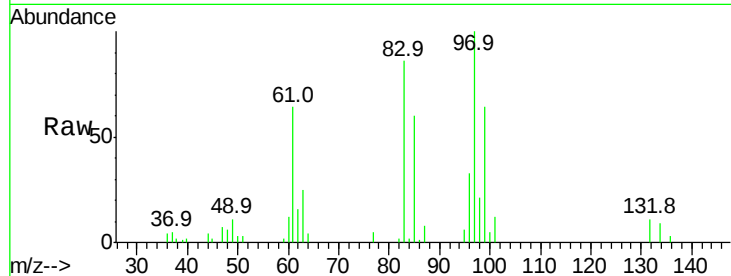




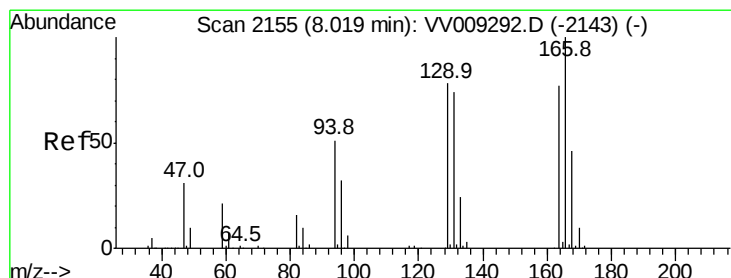
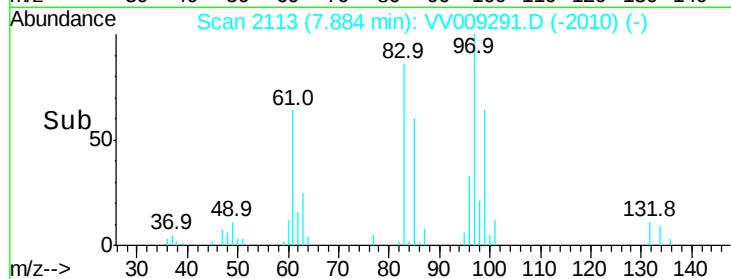
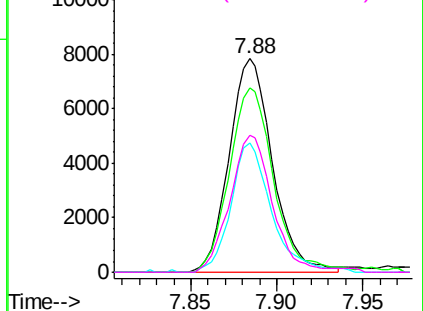
#46
 1,1,2-Trichloroethane
 Concen: 4.849 ug/L
 RT: 7.88 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VV009291.D
 Acq: 13 Feb 2019 13:25

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tgt Ion:	97	Resp:	13733
Ion	Ratio	Lower	Upper
97	100		
83	86.4	63.4	117.8
85	60.4	40.7	75.7
99	64.2	43.8	81.4

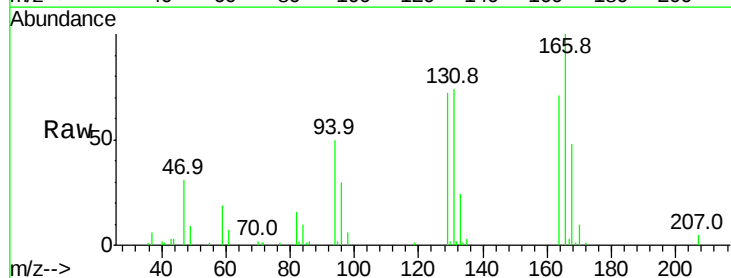


Abundance Ion 97.00 (96.70 to 97.70): VV009291.D (-2100) (-)

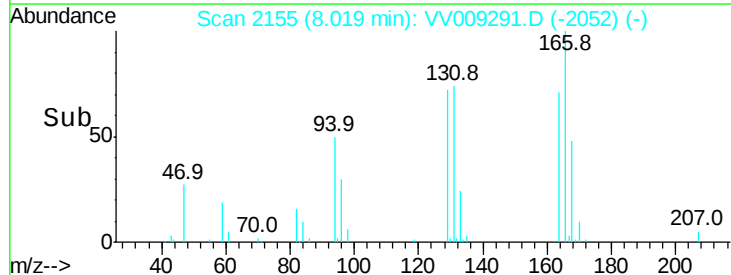
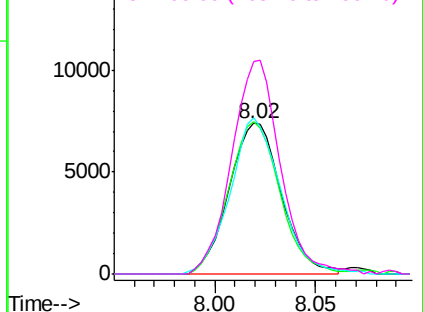


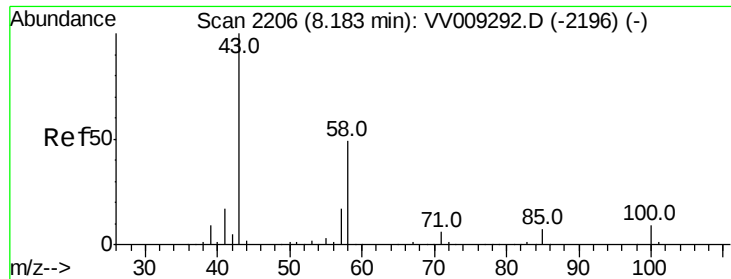
#47
 Tetrachloroethene
 Concen: 4.672 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. -0.00 min
 Lab File: VV009291.D
 Acq: 13 Feb 2019 13:25

Tgt Ion:	164	Resp:	13497
Ion	Ratio	Lower	Upper
164	100		
129	100.9	71.1	132.1
131	103.7	67.4	125.2
166	141.0	91.4	169.8



Abundance Ion 164.00 (163.70 to 164.70): VV009291.D (-2052) (-)

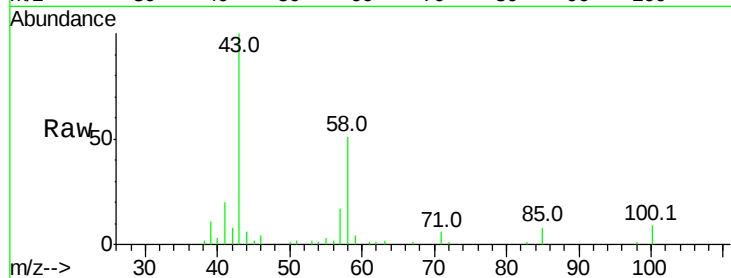




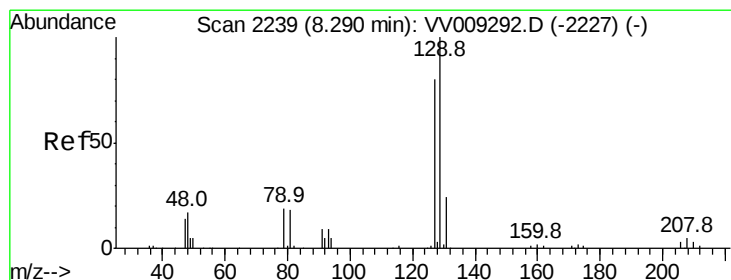
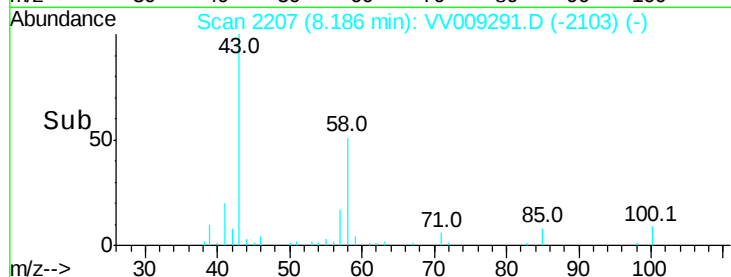
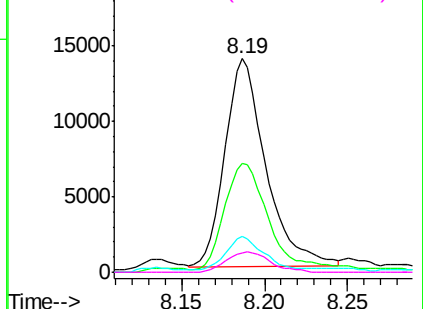
#49
2-Hexanone
Concen: 7.772 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Tgt Ion: 43 Resp: 23723
Ion Ratio Lower Upper
43 100
58 59.2 40.6 61.0
57 14.8 14.1 21.1
100 10.3 7.6 11.4

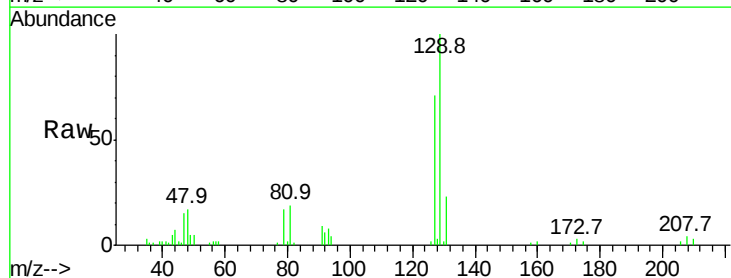


Abundance Ion 43.00 (42.70 to 43.70): VV009291.D (-2196) (-)
Ion 58.00 (57.70 to 58.70): VV009291.D (-2196) (-)
Ion 57.00 (56.70 to 57.70): VV009291.D (-2196) (-)
Ion 100.00 (99.70 to 100.70): VV009291.D (-2196) (-)

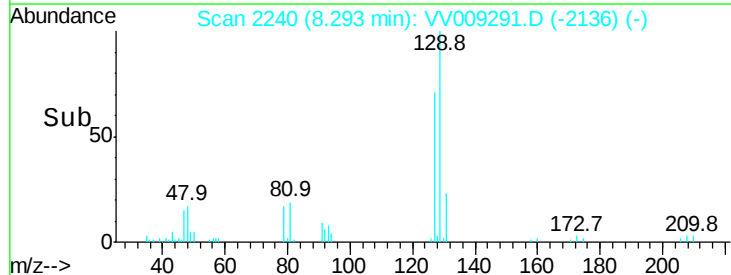
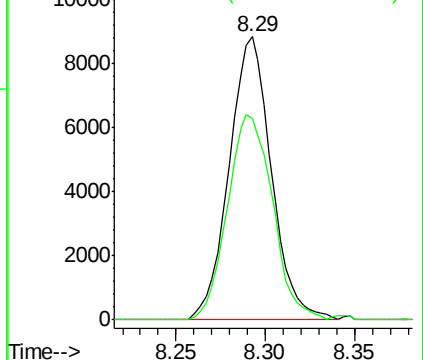


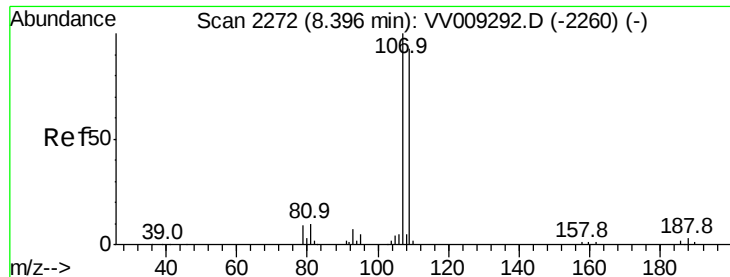
#50
Dibromochloromethane
Concen: 4.471 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

Tgt Ion: 129 Resp: 14540
Ion Ratio Lower Upper
129 100
127 71.0 56.2 104.4



Abundance Ion 129.00 (128.70 to 129.70): VV009291.D (-2136) (-)
Ion 127.00 (126.70 to 127.70): VV009291.D (-2136) (-)





#51

1,2-Dibromoethane

Concen: 4.717 ug/L

RT: 8.40 min Scan# 2273

Delta R.T. 0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

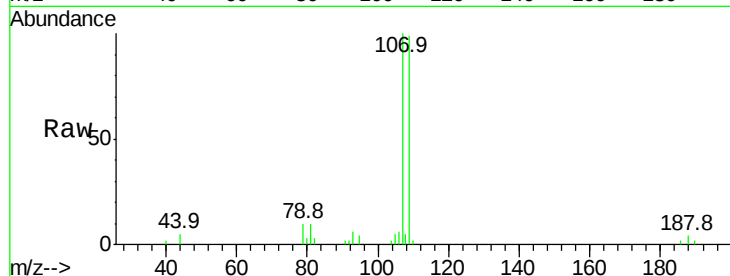
Tgt Ion:107 Resp: 13391

Ion Ratio Lower Upper

107 100

109 99.3 65.2 121.2

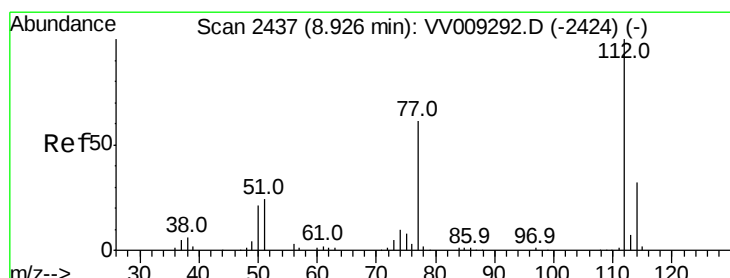
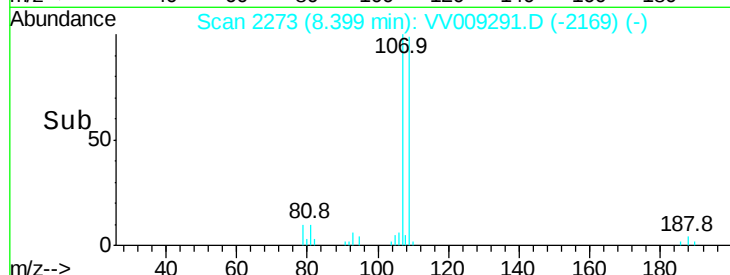
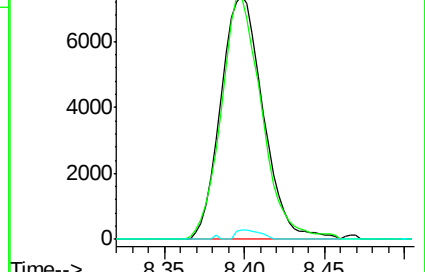
188 3.7 2.8 4.2



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: 4.715 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

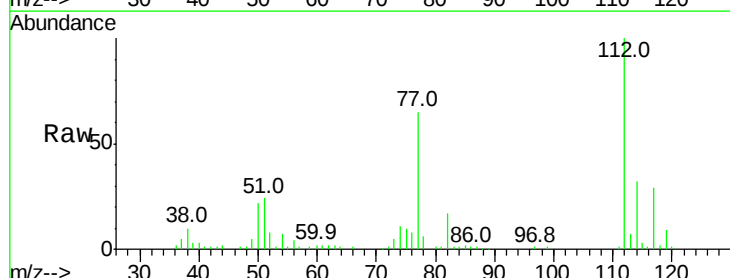
Tgt Ion:112 Resp: 44166

Ion Ratio Lower Upper

112 100

77 65.2 48.9 73.3

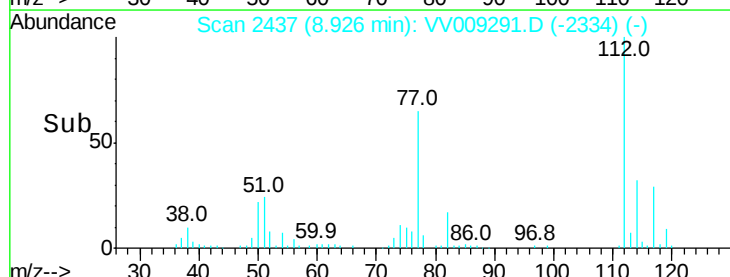
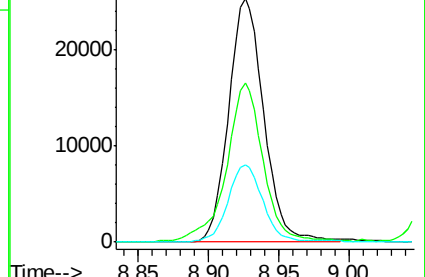
114 31.8 22.0 41.0

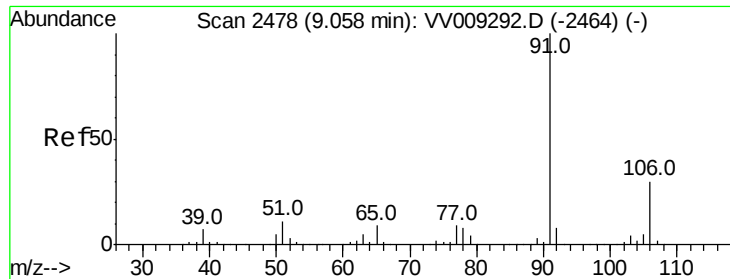


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

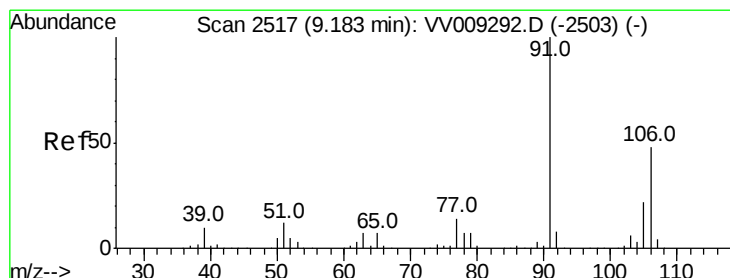
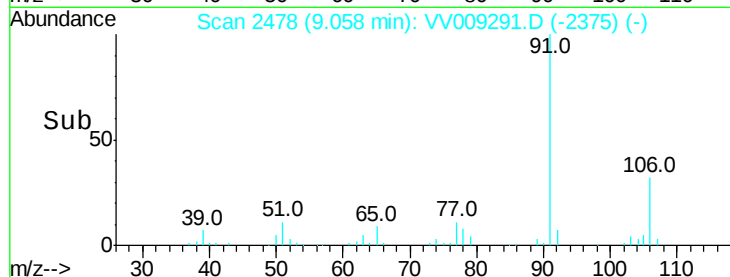
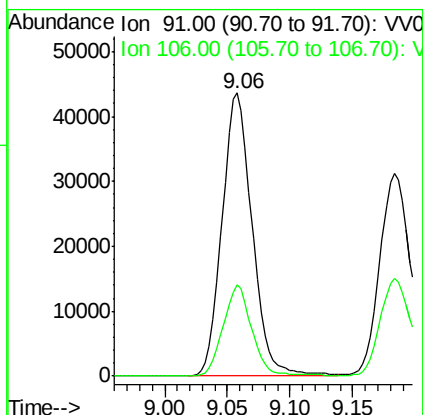
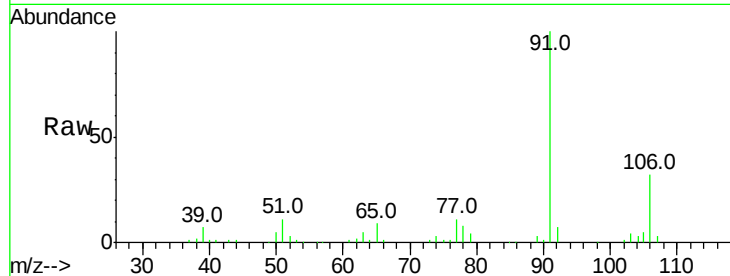




#53
Ethylbenzene
Concen: 4.462 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. -0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

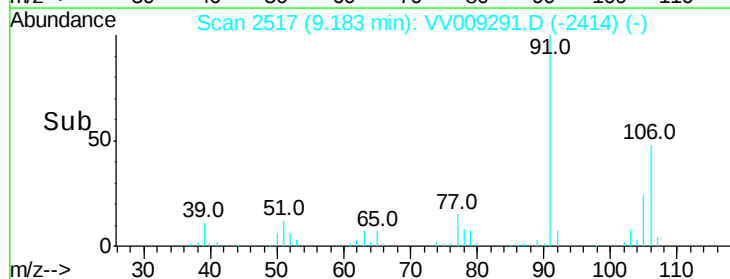
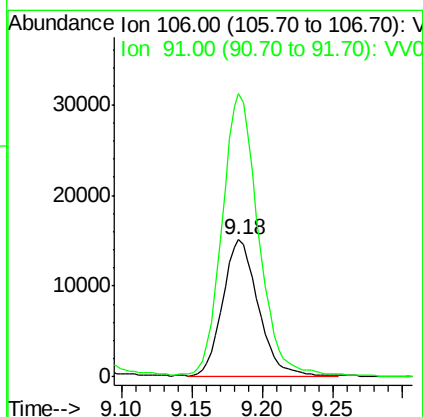
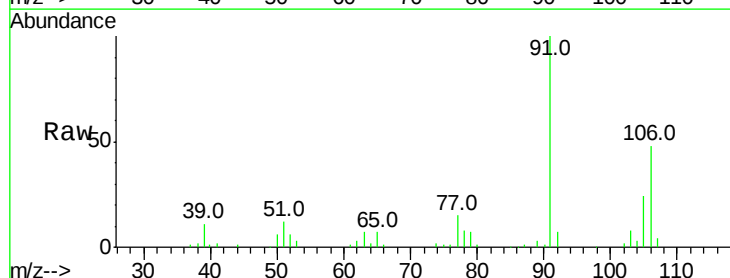
Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

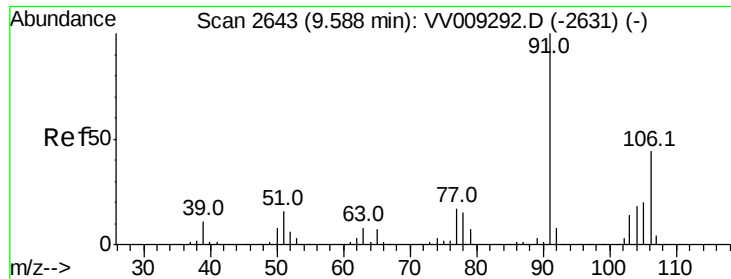
Tgt Ion: 91 Resp: 73286
Ion Ratio Lower Upper
91 100
106 32.1 20.7 38.5



#54
m,p-Xylene
Concen: 4.455 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. -0.00 min
Lab File: VV009291.D
Acq: 13 Feb 2019 13:25

Tgt Ion: 106 Resp: 26941
Ion Ratio Lower Upper
106 100
91 206.4 145.3 269.9





#55

o-xylene

Concen: 4.290 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

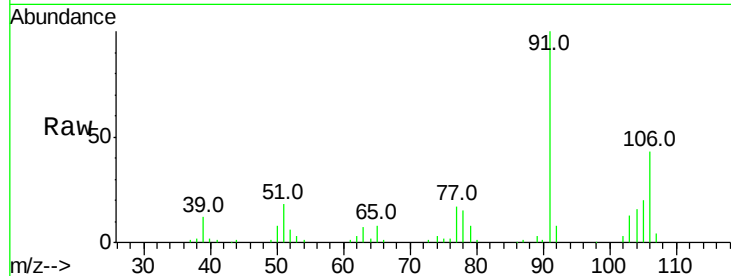
VSTD00562

Tgt Ion:106 Resp: 24551

Ion Ratio Lower Upper

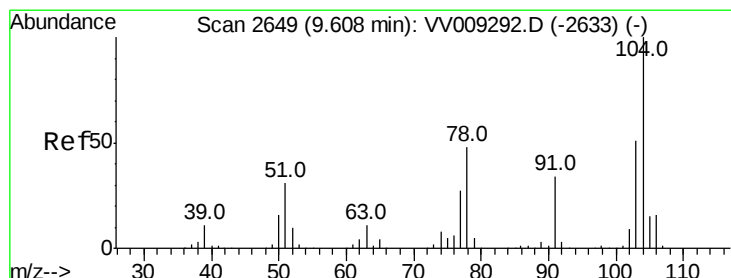
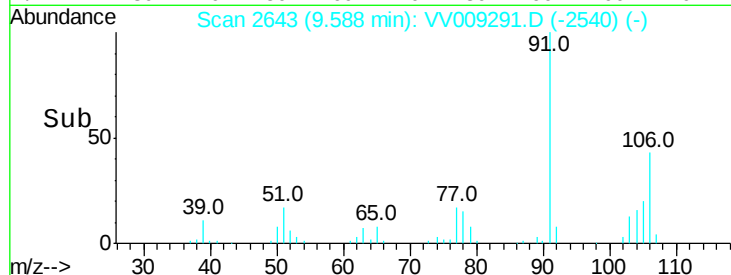
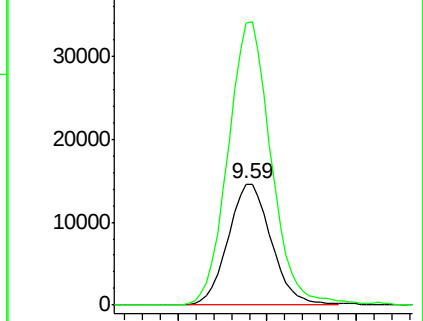
106 100

91 232.9 159.6 296.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 4.234 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009291.D

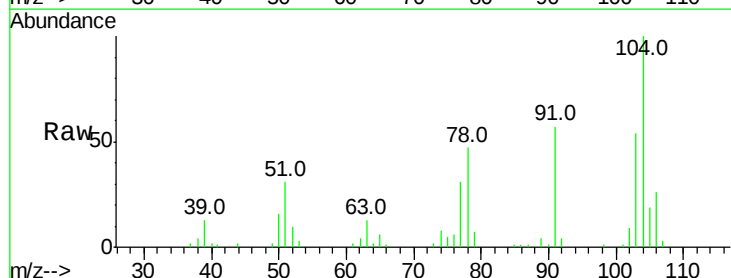
Acq: 13 Feb 2019 13:25

Tgt Ion:104 Resp: 40793

Ion Ratio Lower Upper

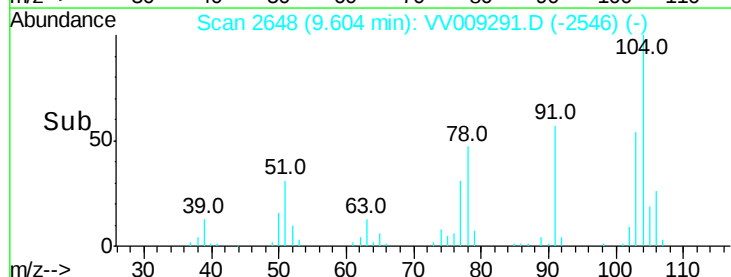
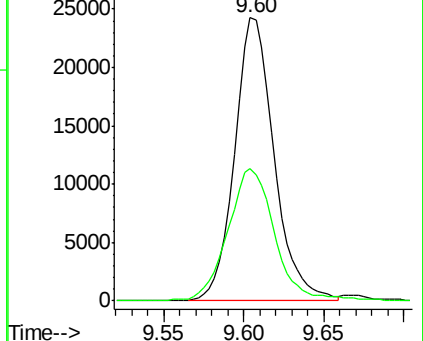
104 100

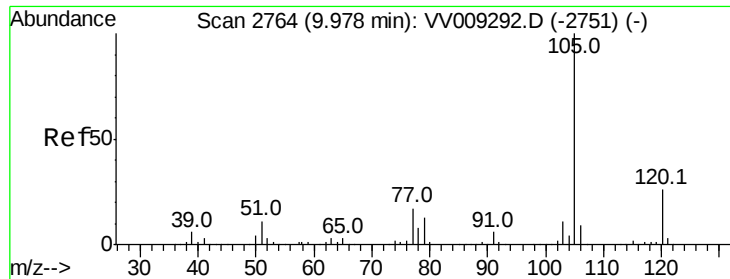
78 47.0 33.6 62.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 4.379 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampled :

VSTD00562

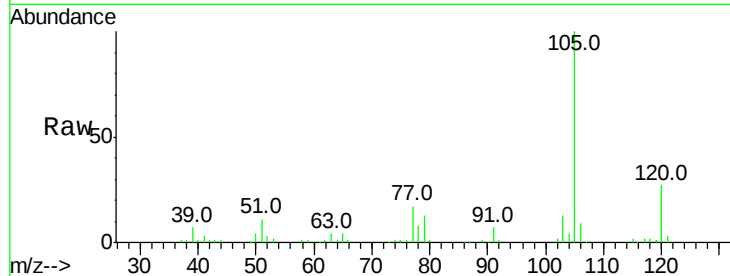
Tgt Ion:105 Resp: 68762

Ion Ratio Lower Upper

105 100

120 26.2 21.1 31.7

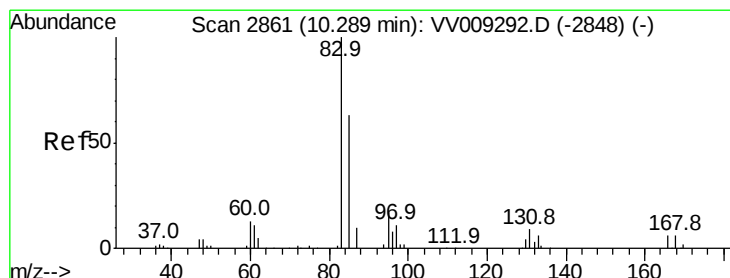
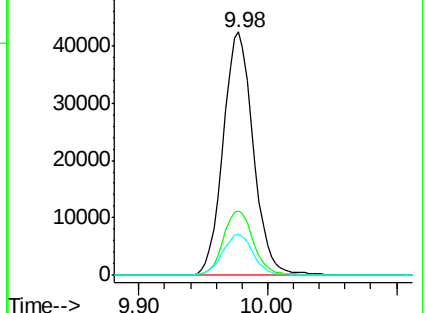
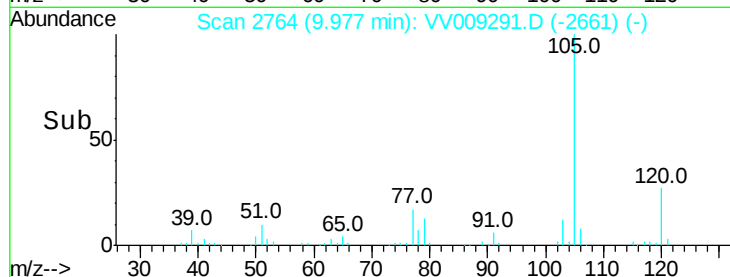
77 17.5 13.8 20.8



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: 4.929 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

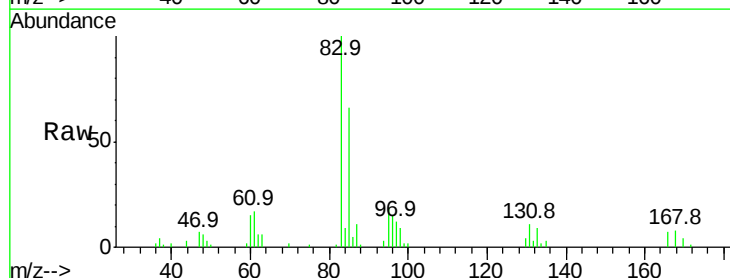
Tgt Ion: 83 Resp: 20375

Ion Ratio Lower Upper

83 100

85 66.1 44.7 82.9

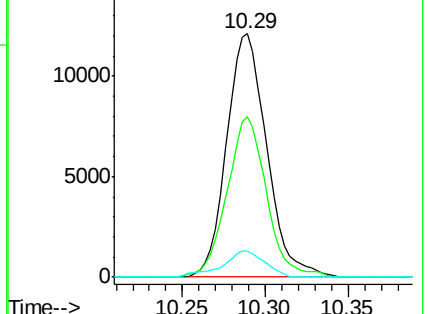
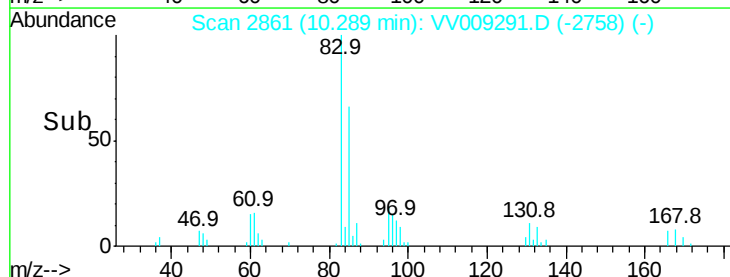
131 10.7 7.8 11.6

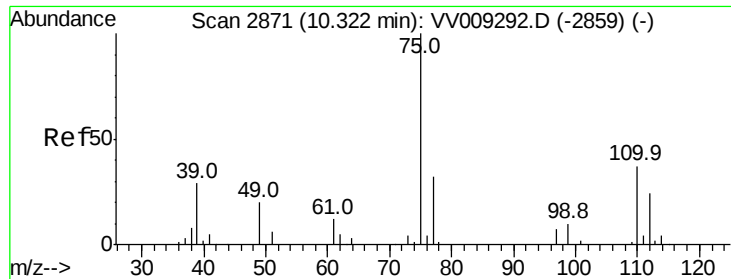


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

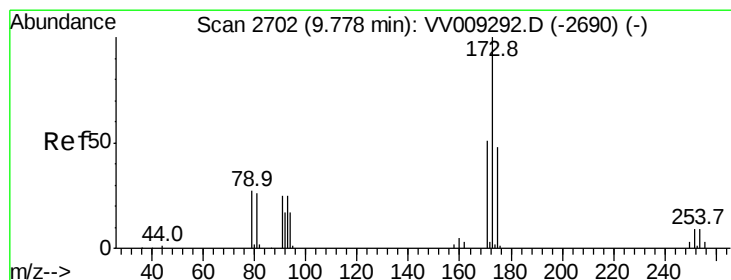
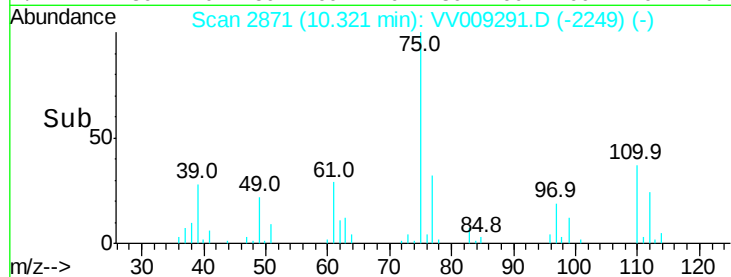
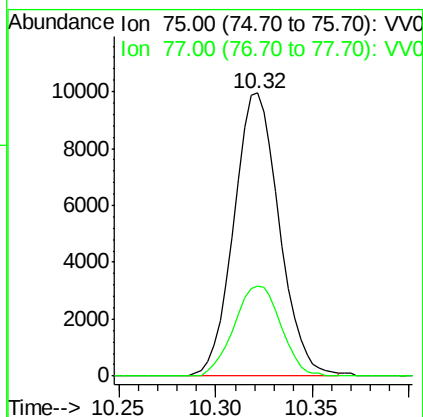
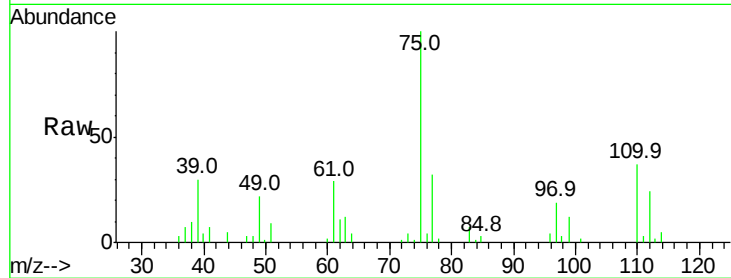




#59
 1,2,3-Trichloropropane
 Concen: 5.023 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VV009291.D
 Acq: 13 Feb 2019 13:25

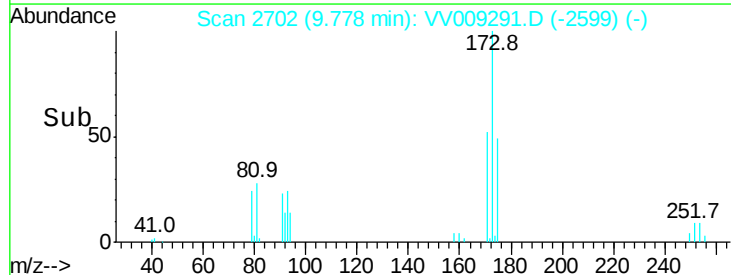
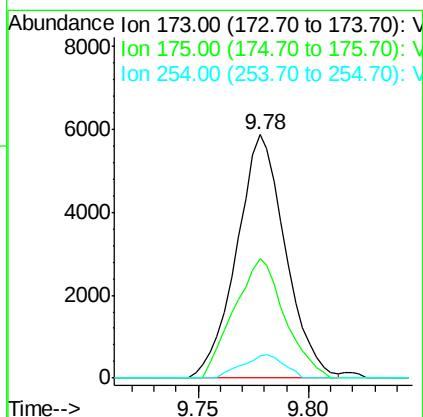
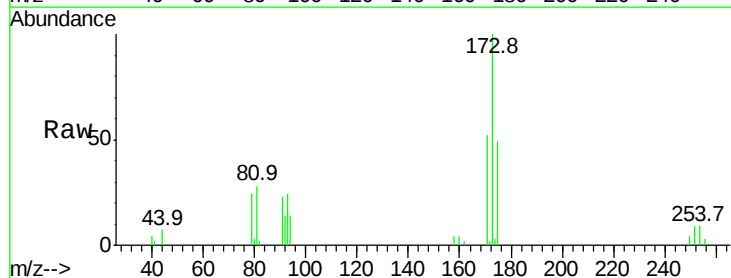
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

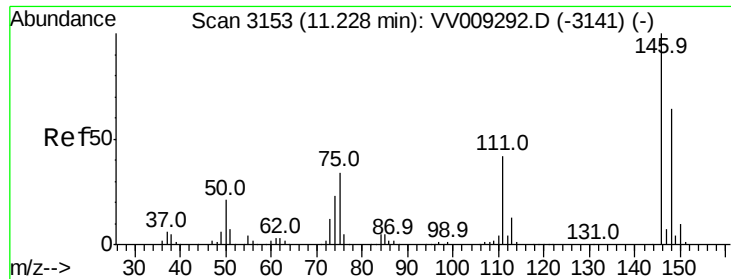
Tgt Ion: 75 Resp: 16245
 Ion Ratio Lower Upper
 75 100
 77 32.9 26.2 39.2



#62
 Bromoform
 Concen: 4.736 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. -0.00 min
 Lab File: VV009291.D
 Acq: 13 Feb 2019 13:25

Tgt Ion: 173 Resp: 9015
 Ion Ratio Lower Upper
 173 100
 175 50.8 39.9 59.9
 254 8.2 6.9 10.3

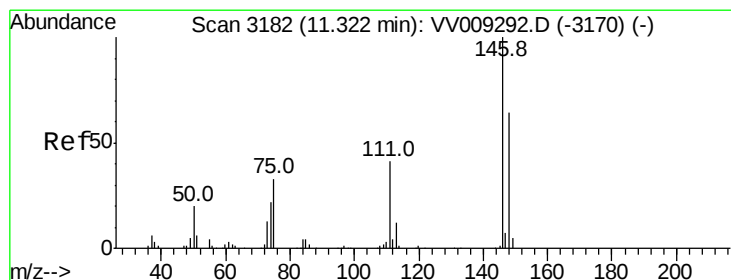
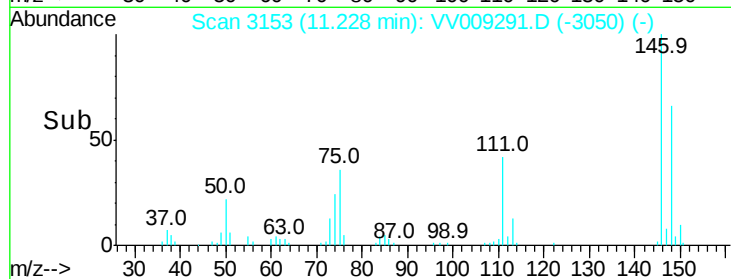
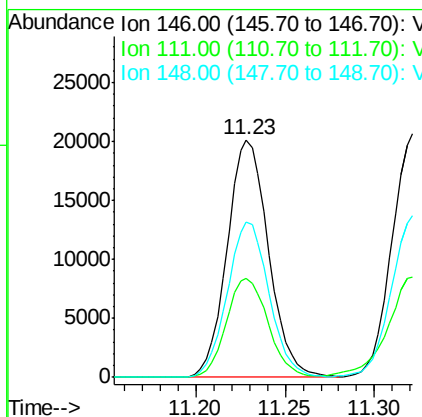
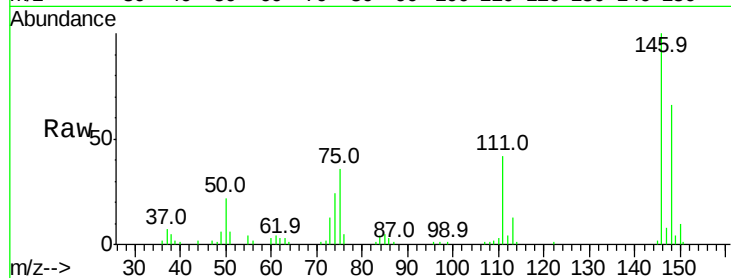




#63
 1,3-Dichlorobenzene
 Concen: 4.779 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009291.D
 Acq: 13 Feb 2019 13:25

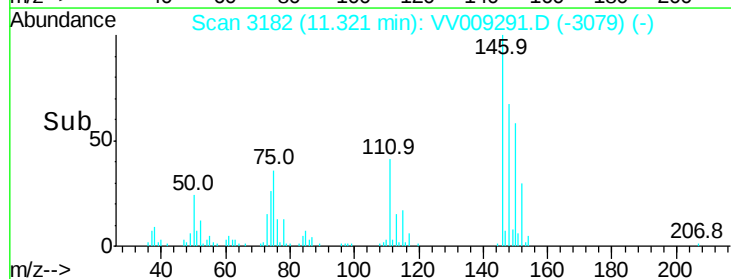
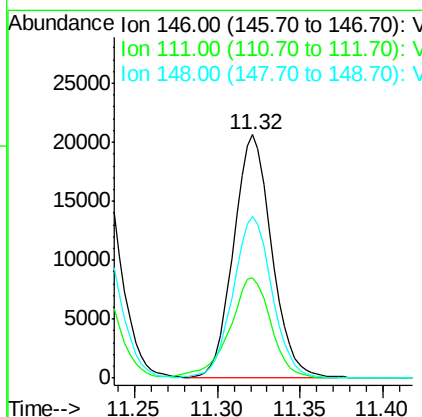
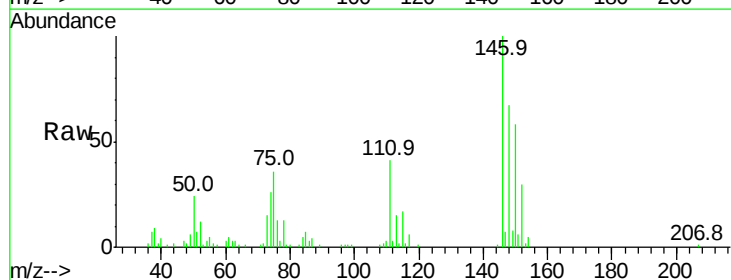
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

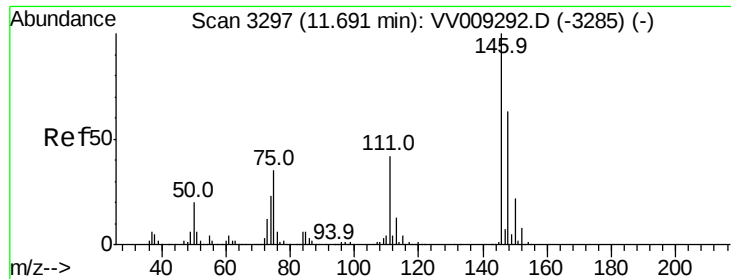
Tgt Ion:146 Resp: 32547
 Ion Ratio Lower Upper
 146 100
 111 41.6 29.5 54.7
 148 65.6 44.5 82.7



#64
 1,4-Dichlorobenzene
 Concen: 4.819 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: VV009291.D
 Acq: 13 Feb 2019 13:25

Tgt Ion:146 Resp: 33171
 Ion Ratio Lower Upper
 146 100
 111 41.2 28.6 53.0
 148 66.5 45.1 83.7





#65

1,2-Dichlorobenzene

Concen: 4.973 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

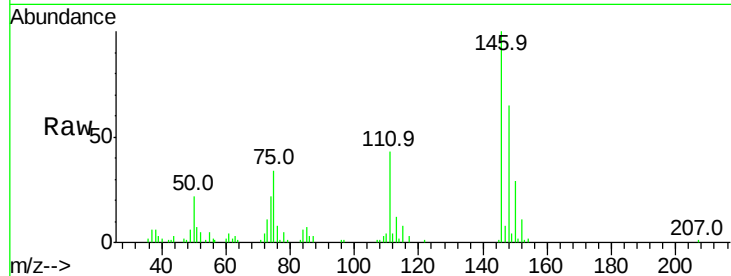
Tgt Ion:146 Resp: 31708

Ion Ratio Lower Upper

146 100

111 43.0 33.8 50.8

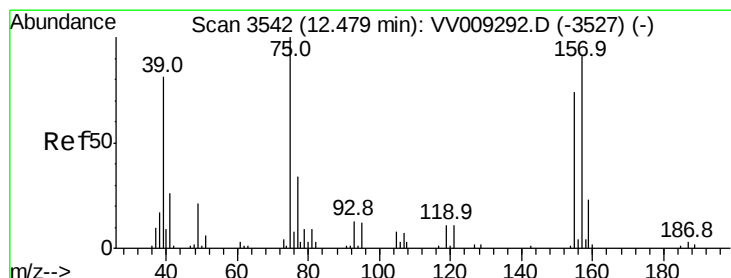
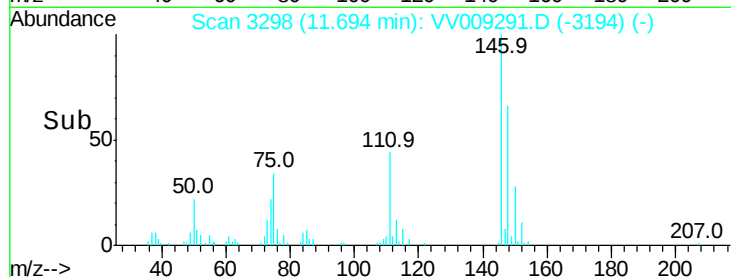
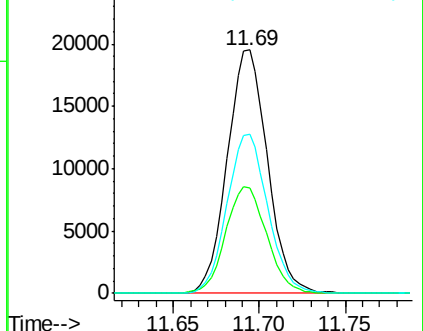
148 65.5 50.1 75.1



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: 4.952 ug/L

RT: 12.48 min Scan# 3543

Delta R.T. 0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

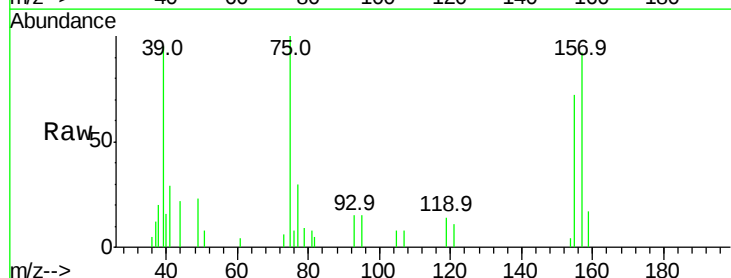
Tgt Ion: 75 Resp: 3990

Ion Ratio Lower Upper

75 100

157 91.6 72.6 109.0

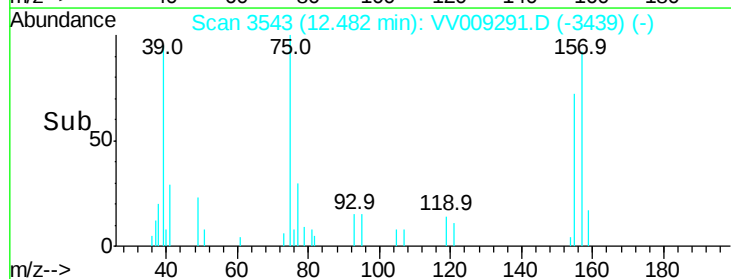
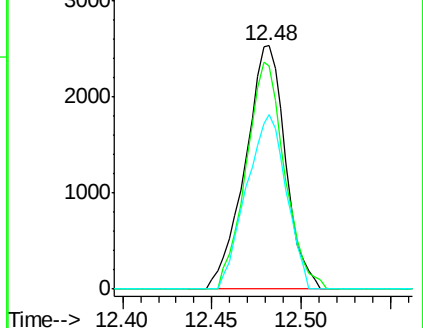
155 71.6 59.0 88.6

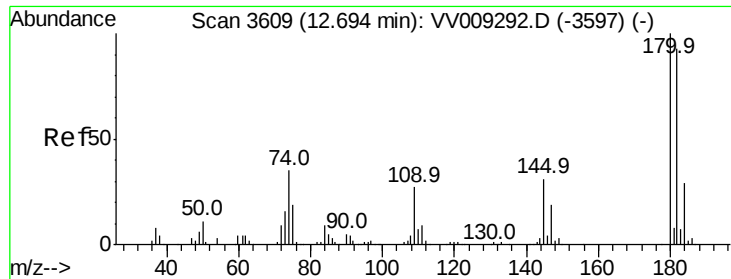


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

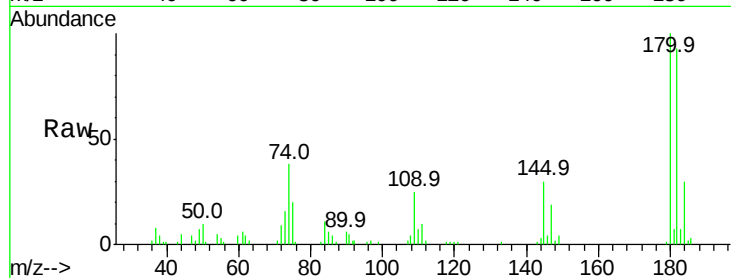




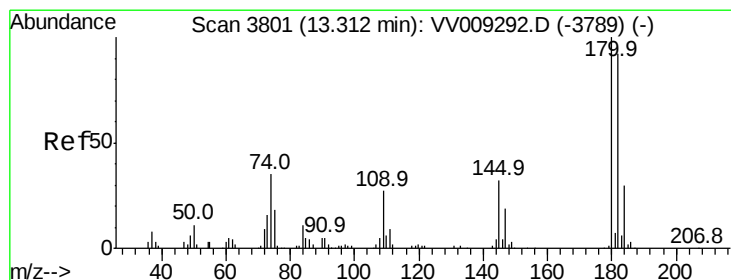
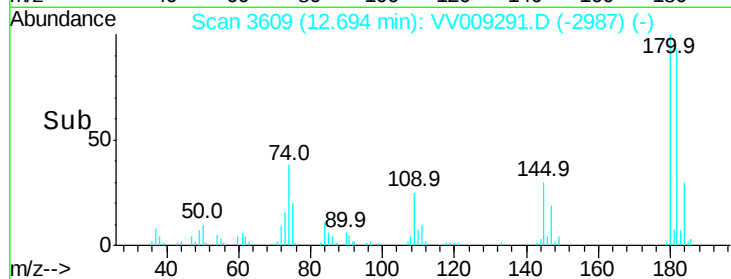
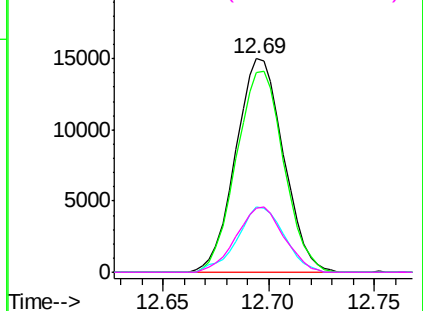
#67
 1,3,5-Trichlorobenzene
 Concen: 4.664 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009291.D
 Acq: 13 Feb 2019 13:25

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00562

Tgt Ion:180 Resp: 23586
 Ion Ratio Lower Upper
 180 100
 182 93.3 75.5 113.3
 184 29.9 23.8 35.6
 145 30.3 24.5 36.7

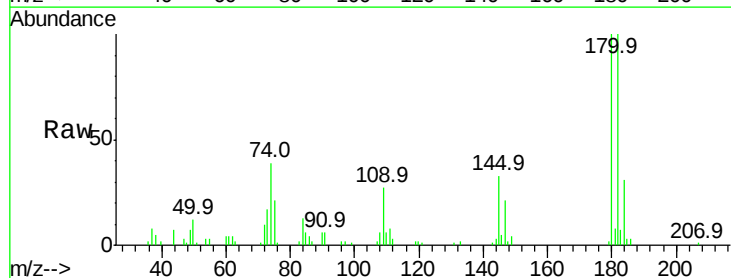


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

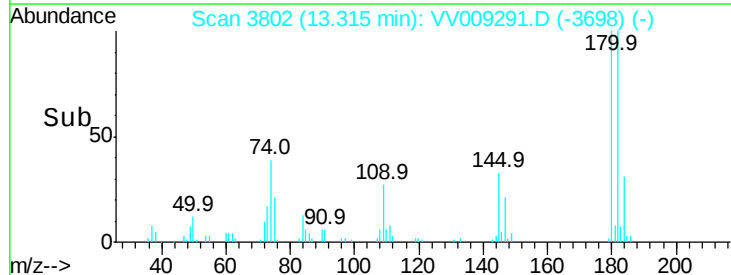
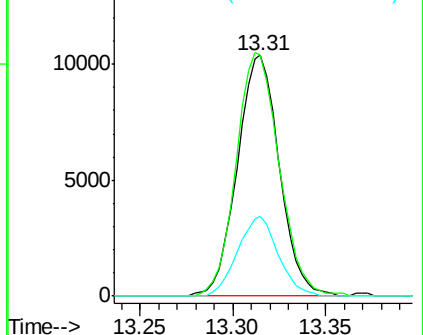


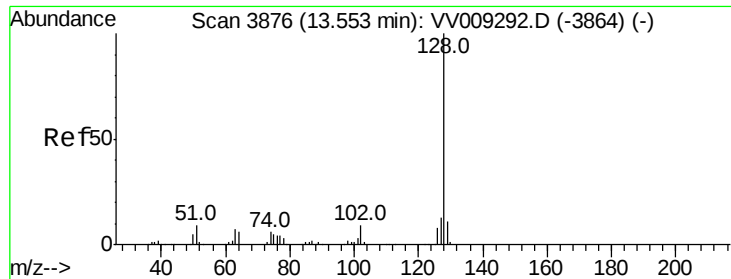
#68
 1,2,4-trichlorobenzene
 Concen: 4.147 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV009291.D
 Acq: 13 Feb 2019 13:25

Tgt Ion:180 Resp: 16340
 Ion Ratio Lower Upper
 180 100
 182 103.1 74.1 111.1
 145 31.9 25.4 38.2



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: 3.679 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

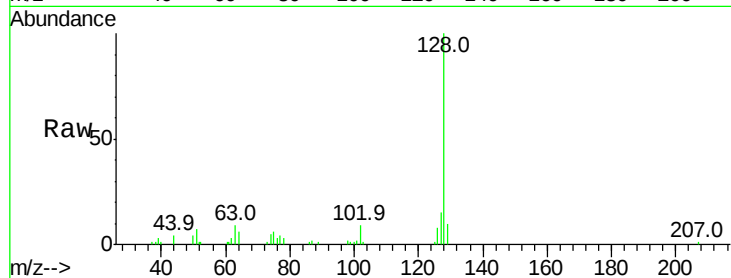
Tgt Ion:128 Resp: 29232

Ion Ratio Lower Upper

128 100

129 10.4 8.8 13.2

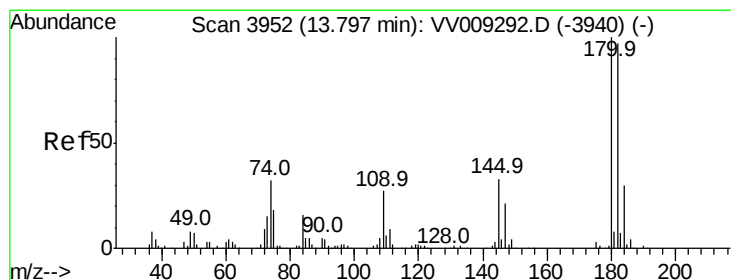
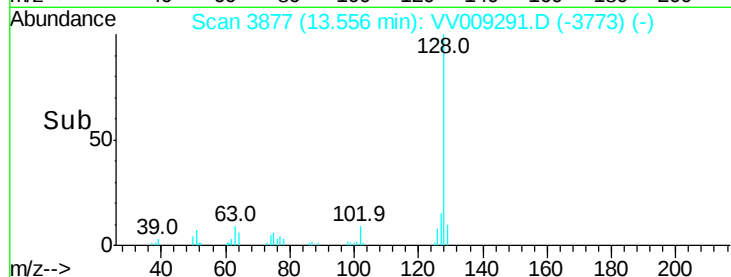
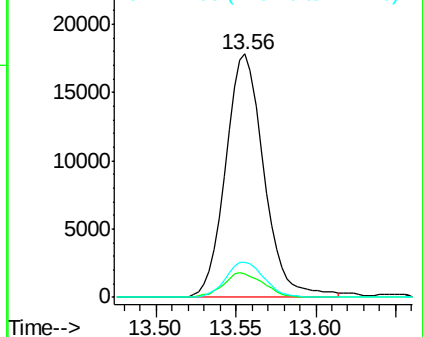
127 14.4 10.6 15.8



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: 4.703 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV009291.D

Acq: 13 Feb 2019 13:25

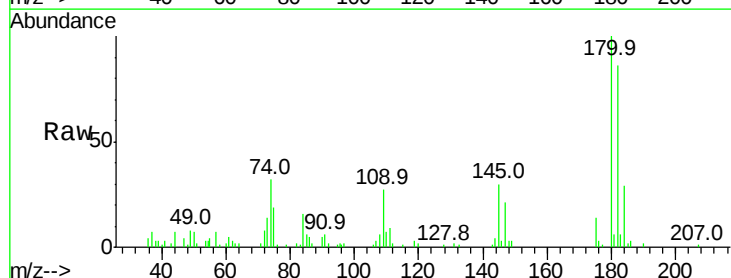
Tgt Ion:180 Resp: 16838

Ion Ratio Lower Upper

180 100

182 92.1 77.7 116.5

145 30.9 26.9 40.3



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

