

Data File : VV008836.D
Acq On : 05 Dec 2018 10:33
Operator : SY/MD
Sample : VSTD00165
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00165

Quant Time: Dec 06 04:40:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR120518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 06 04:37:05 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	121056	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	110615	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	52353	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	6242	0.77	ug/L	0.00
7) Chloroethane-d5	1.59	69	4687	0.81	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.14	63	12079	0.86	ug/L	0.00
20) 2-Butanone-d5	3.99	46	14787	7.99	ug/L	0.02
24) Chloroform-d	4.41	84	14775	0.90	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	6802	0.86	ug/L	0.00
32) Benzene-d6	5.10	84	27935	0.84	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.13	67	8507	0.85	ug/L	0.00
41) Toluene-d8	7.36	98	25899	0.84	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	3107	0.92	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	10329	7.41	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	5499	0.87	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	9431	0.88	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	11361	1.048 ug/L	100
3) Chloromethane	1.25	50	7581	0.956 ug/L	98
5) Vinyl chloride	1.33	62	7551	0.959 ug/L	94
6) Bromomethane	1.54	94	4435	0.902 ug/L	97
8) Chloroethane	1.60	64	4360	0.969 ug/L	99
9) Trichlorofluoromethane	1.77	101	12493	1.040 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	6735	0.992 ug/L	99
12) 1,1-Dichloroethene	2.14	96	5742	0.968 ug/L	99
13) Acetone	2.23	43	4239	4.568 ug/L	88
14) Carbon disulfide	2.32	76	16349	0.941 ug/L	98
15) Methyl Acetate	2.48	43	1808	0.740 ug/L #	82
16) Methylene chloride	2.54	84	6879	1.029 ug/L	92
17) Methyl tert-butyl Ether	2.81	73	14530	0.995 ug/L	94
18) trans-1,2-Dichloroethene	2.79	96	6252	0.961 ug/L	92
19) 1,1-Dichloroethane	3.23	63	13982	0.974 ug/L	99
21) 2-Butanone	4.07	43	16038	8.712 ug/L	89
22) cis-1,2-Dichloroethene	3.97	96	8444	0.924 ug/L	90
23) Bromochloromethane	4.30	128	3606	0.960 ug/L	89
25) Chloroform	4.44	83	15237	0.965 ug/L	98
27) 1,2-Dichloroethane	5.19	62	8422	0.928 ug/L #	91
29) 1,1,1-Trichloroethane	4.66	97	12852	0.991 ug/L	99
30) Cyclohexane	4.72	56	11889	0.886 ug/L	99
31) Carbon tetrachloride	4.88	117	11504	1.021 ug/L	99
33) Benzene	5.15	78	30487	0.931 ug/L	100
34) Trichloroethene	5.96	95	8986	0.977 ug/L	98
35) Methylcyclohexane	6.18	83	13769	0.947 ug/L	97
37) 1,2-Dichloropropane	6.23	63	7857	0.963 ug/L #	92
38) Bromodichloromethane	6.56	83	9042	0.964 ug/L	94
39) cis-1,3-Dichloropropene	7.08	75	9910	0.919 ug/L	98
40) 4-Methyl-2-pentanone	7.29	43	38328	9.164 ug/L	97

Data File : VV008836.D
Acq On : 05 Dec 2018 10:33
Operator : SY/MD
Sample : VSTD00165
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00165

Quant Time: Dec 06 04:40:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR120518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 06 04:37:05 2018
Response via : Initial Calibration

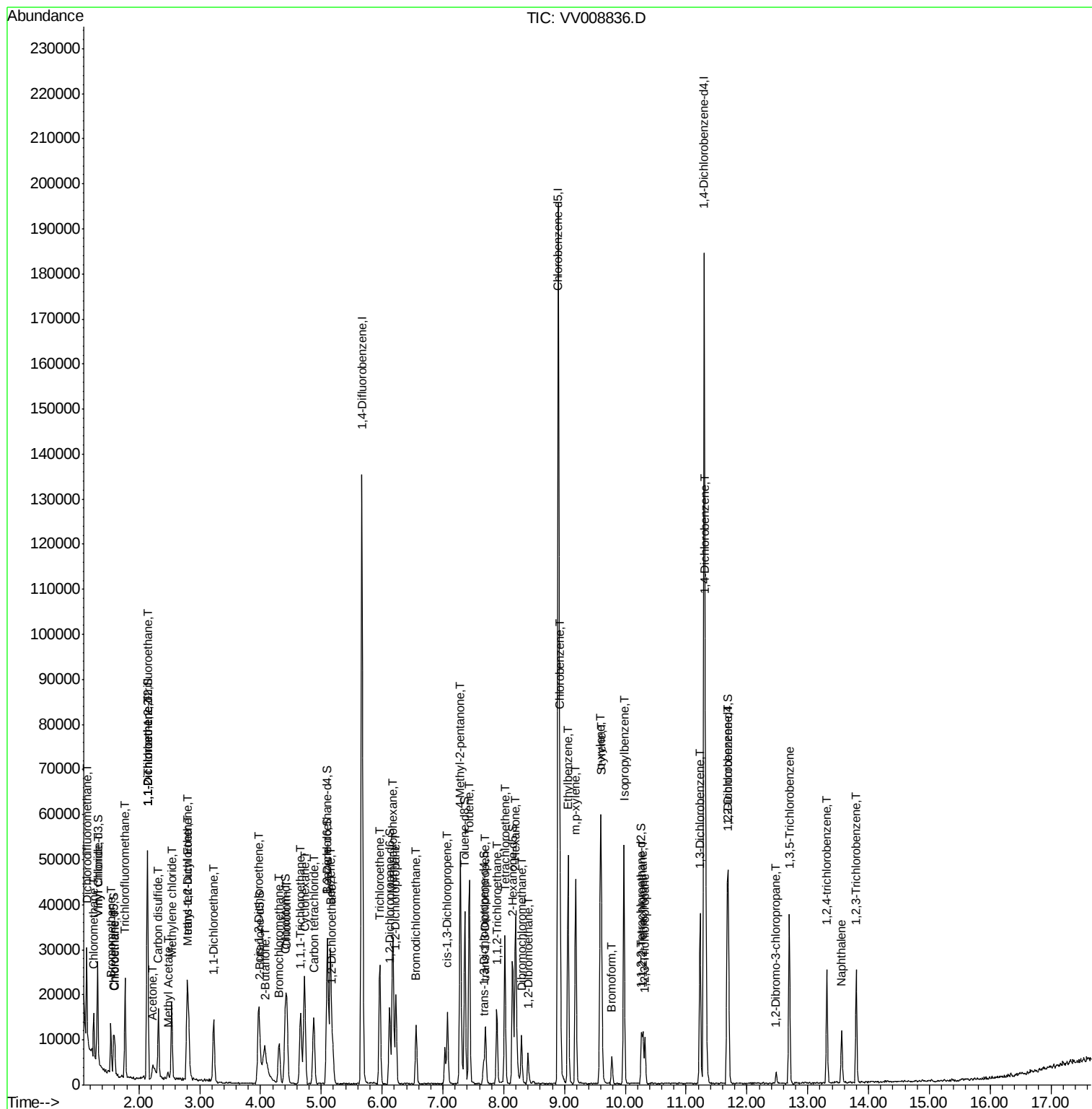
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	32980	0.957	ug/L	100
44) trans-1,3-Dichloropropene	7.70	75	7493	0.878	ug/L	97
45) 1,1,2-Trichloroethane	7.89	97	5659	1.042	ug/L	96
47) Tetrachloroethene	8.02	164	7134	0.997	ug/L	99
48) 2-Hexanone	8.20	43	26981	9.204	ug/L	99
49) Dibromochloromethane	8.29	129	5818	0.968	ug/L	91
50) 1,2-Dibromoethane	8.40	107	4898	0.952	ug/L #	97
51) Chlorobenzene	8.93	112	22469	0.988	ug/L	99
52) Ethylbenzene	9.06	91	35400	0.948	ug/L	100
53) m,p-xylene	9.18	106	13382	0.953	ug/L	95
54) o-xylene	9.59	106	12497	0.928	ug/L	99
55) Styrene	9.61	104	20051	0.892	ug/L	95
56) Isopropylbenzene	9.98	105	34537	0.939	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	5141	0.894	ug/L	87
59) 1,2,3-Trichloropropane	10.32	75	4589	0.976	ug/L	95
61) Bromoform	9.77	173	2908	1.008	ug/L #	97
62) 1,3-Dichlorobenzene	11.23	146	16957	0.992	ug/L	92
63) 1,4-Dichlorobenzene	11.32	146	17705	1.039	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	15464	0.956	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.48	75	608	0.762	ug/L #	60
67) 1,3,5-Trichlorobenzene	12.70	180	12173	0.969	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	8039	0.865	ug/L	99
69) Naphthalene	13.56	128	10444	0.765	ug/L	98
70) 1,2,3-Trichlorobenzene	13.80	180	7875	0.903	ug/L	99

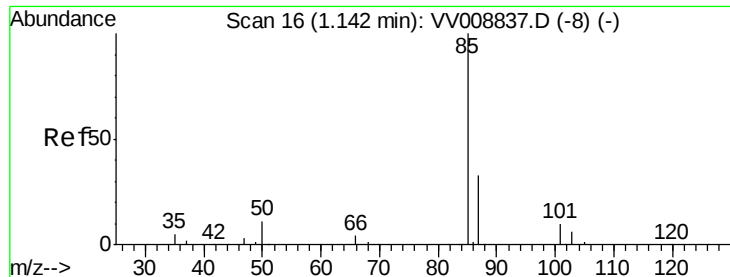
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VV008836.D
Acq On : 05 Dec 2018 10:33
Operator : SY/MD
Sample : VSTD00165
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00165

Quant Time: Dec 06 04:40:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR120518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 06 04:37:05 2018
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.048 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

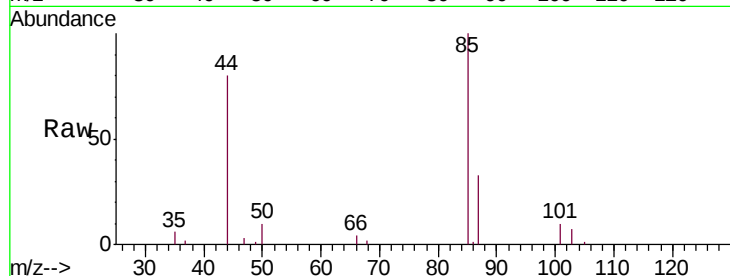
VSTD00165

Tgt Ion: 85 Resp: 11361

Ion Ratio Lower Upper

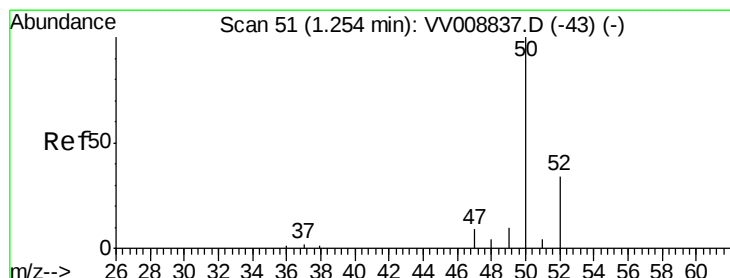
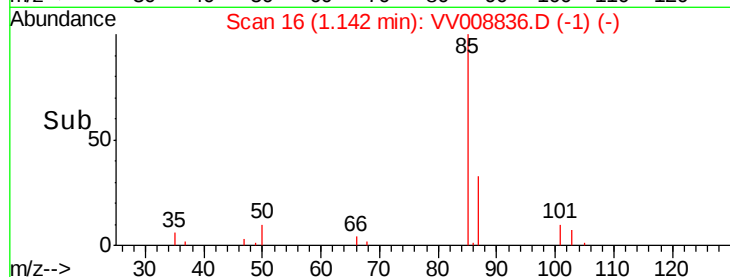
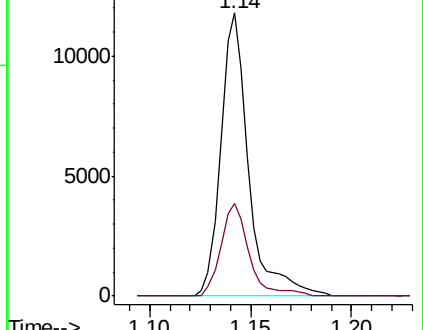
85 100

87 33.1 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VV008837.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV008837.D (-8) (-)



#3

Chloromethane

Concen: 0.956 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV008836.D

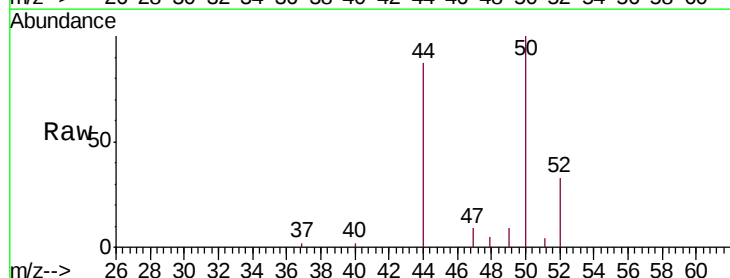
Acq: 05 Dec 2018 10:33

Tgt Ion: 50 Resp: 7581

Ion Ratio Lower Upper

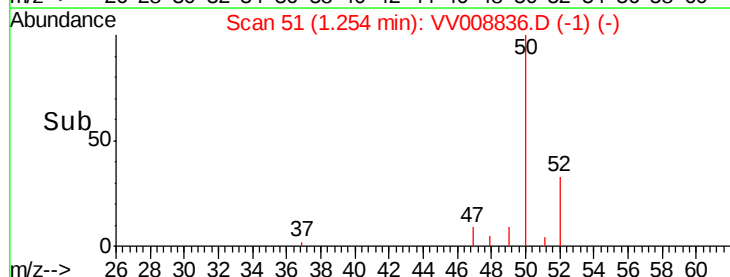
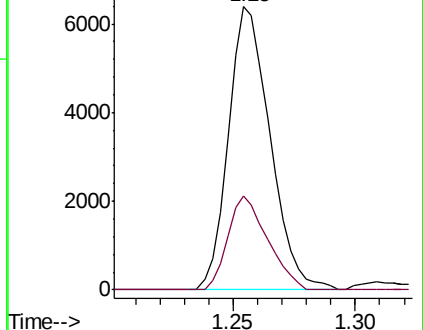
50 100

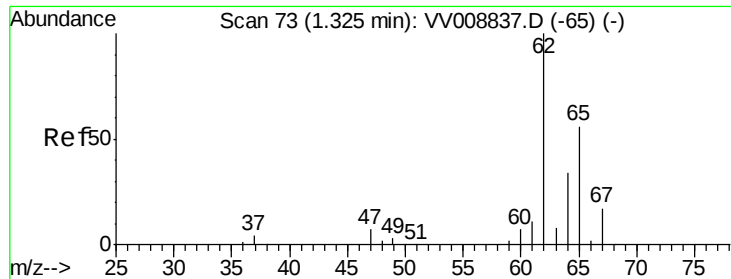
52 33.3 23.9 44.5



Abundance Ion 50.05 (49.75 to 50.75): VV008837.D (-43) (-)

Ion 52.05 (51.75 to 52.75): VV008837.D (-43) (-)





#5

Vinyl chloride

Concen: 0.959 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

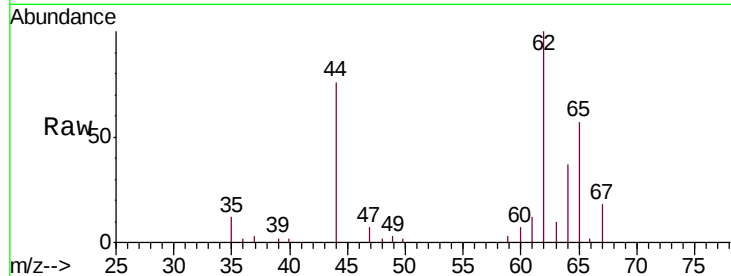
VSTD00165

Tgt Ion: 62 Resp: 7551

Ion Ratio Lower Upper

62 100

64 37.4 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

8000

6000

4000

2000

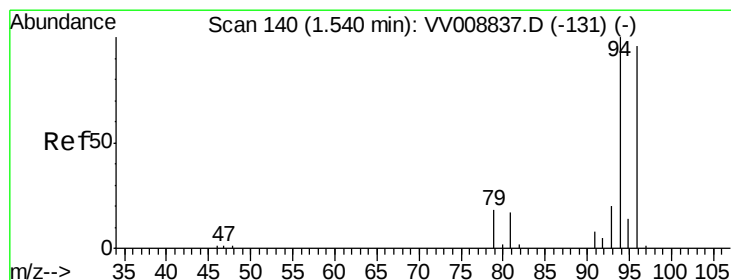
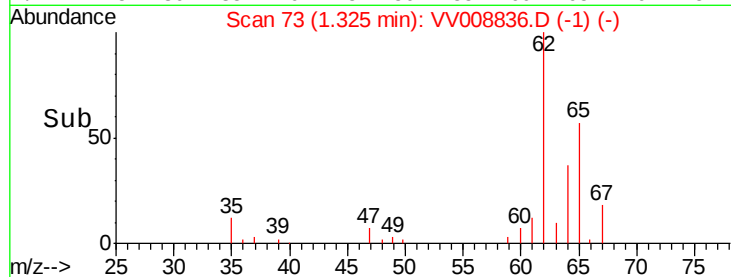
0

1.30

1.33

1.35

Time-->



#6

Bromomethane

Concen: 0.902 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV008836.D

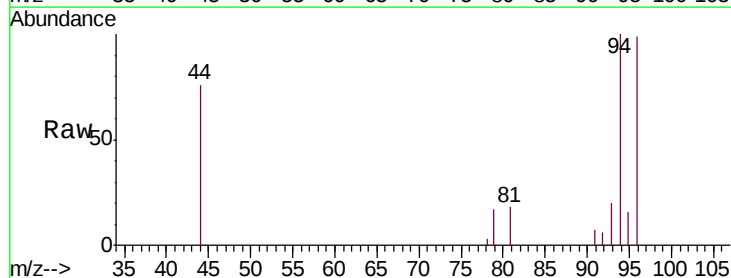
Acq: 05 Dec 2018 10:33

Tgt Ion: 94 Resp: 4435

Ion Ratio Lower Upper

94 100

96 98.5 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

4000

3000

2000

1000

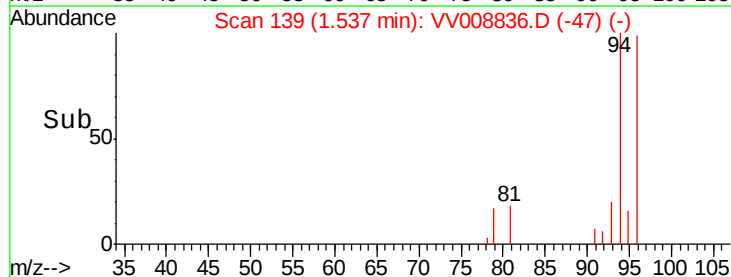
0

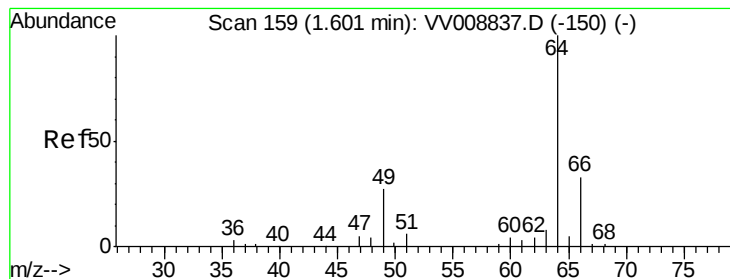
1.50

1.54

1.55

Time-->





#8

Chloroethane

Concen: 0.969 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

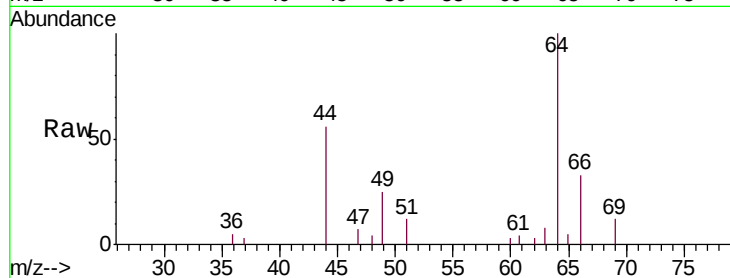
VSTD00165

Tgt Ion: 64 Resp: 4360

Ion Ratio Lower Upper

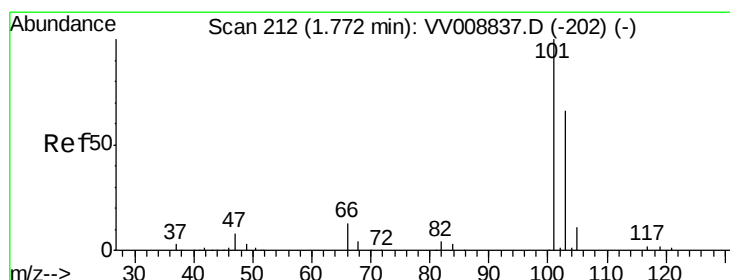
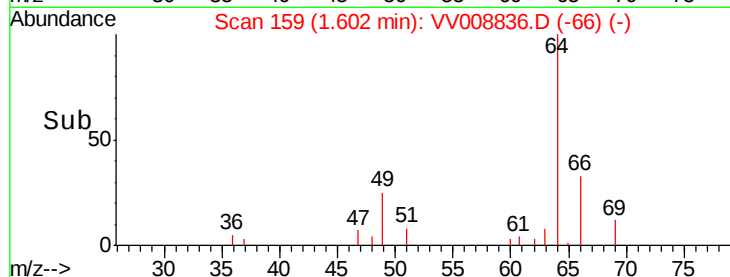
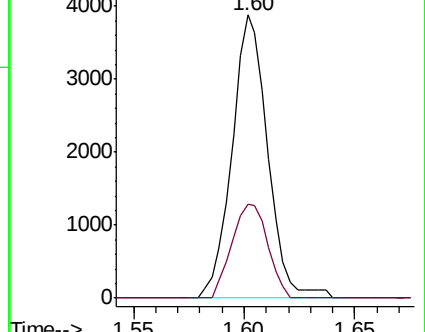
64 100

66 33.0 23.4 43.6



Abundance Ion 64.10 (63.80 to 64.80): VV008837.D (-150) (-)

Ion 66.05 (65.75 to 66.75): VV008837.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 1.040 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV008836.D

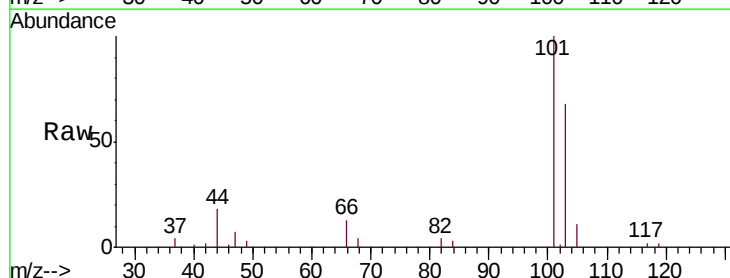
Acq: 05 Dec 2018 10:33

Tgt Ion: 101 Resp: 12493

Ion Ratio Lower Upper

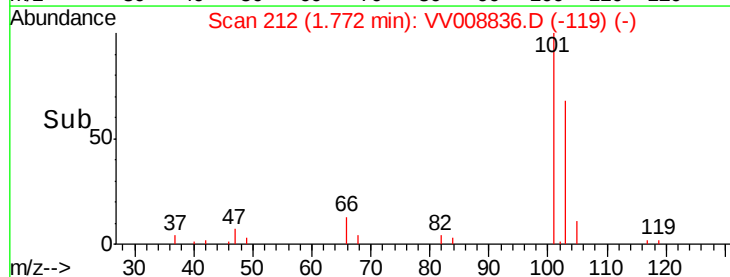
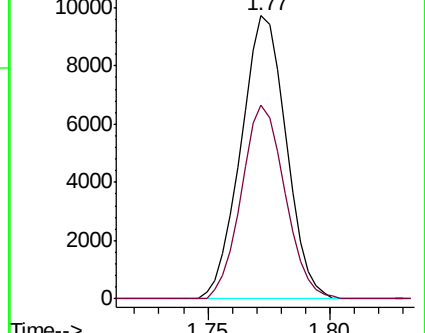
101 100

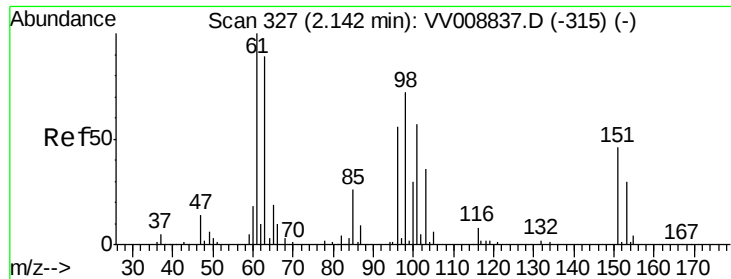
103 66.0 52.5 78.7



Abundance Ion 101.00 (100.70 to 101.70): VV008837.D (-202) (-)

Ion 103.00 (102.70 to 103.70): VV008837.D (-202) (-)





#10

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

Concen: 0.992 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD00165

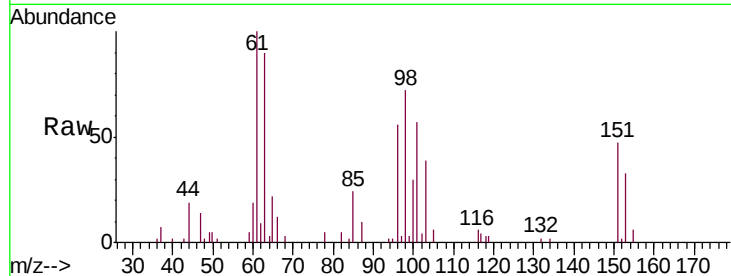
Tgt Ion: 101 Resp: 6735

Ion Ratio Lower Upper

101 100

85 41.8 35.0 52.6

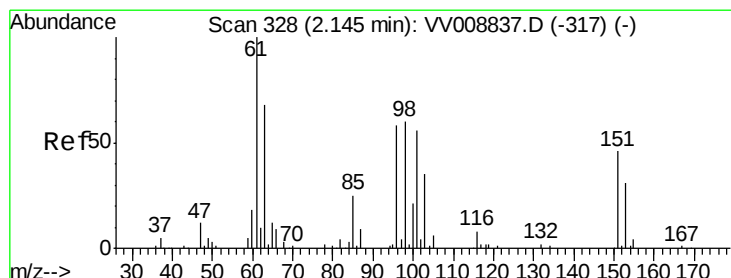
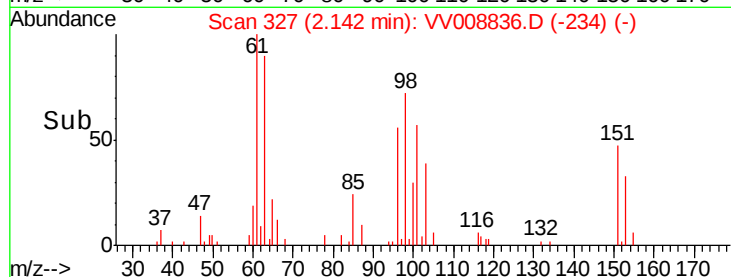
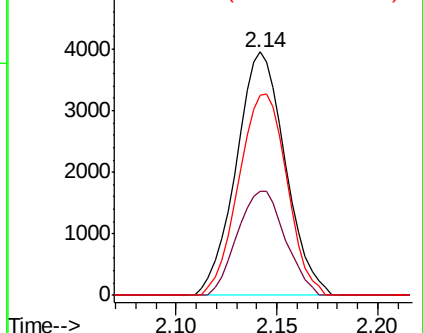
151 81.4 65.1 97.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.968 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

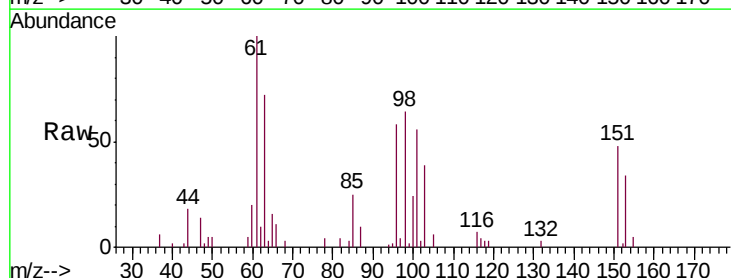
Tgt Ion: 96 Resp: 5742

Ion Ratio Lower Upper

96 100

61 171.8 120.8 224.4

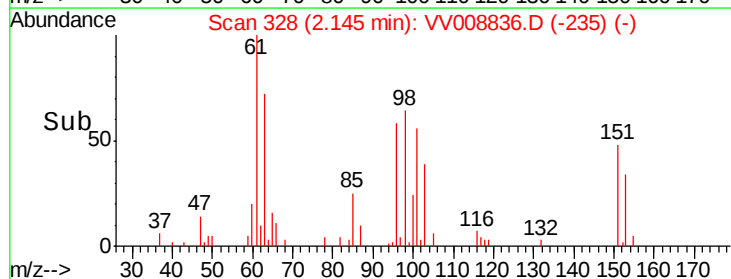
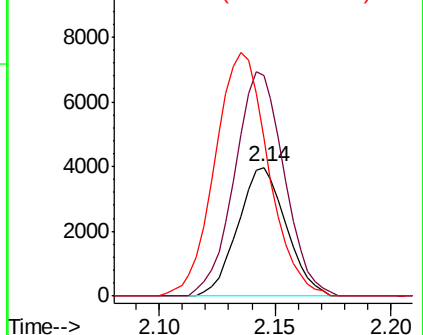
63 123.2 85.0 158.0

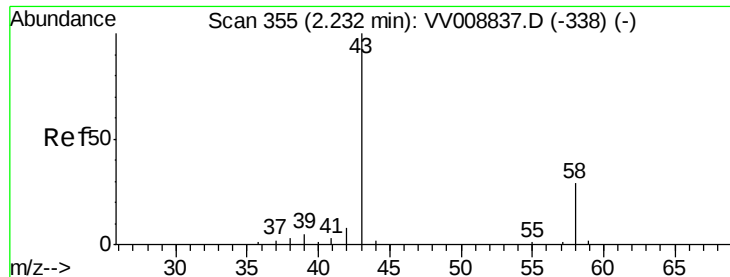


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 4.568 ug/L

RT: 2.23 min Scan# 355

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

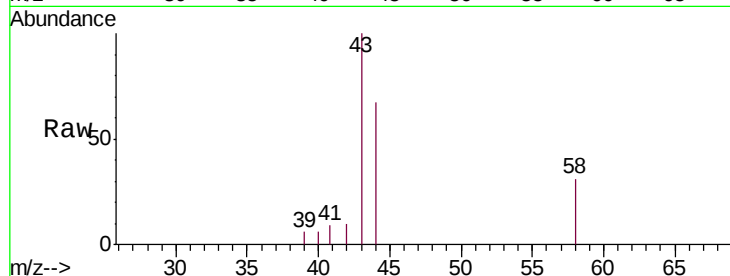
VSTD00165

Tgt Ion: 43 Resp: 4239

Ion Ratio Lower Upper

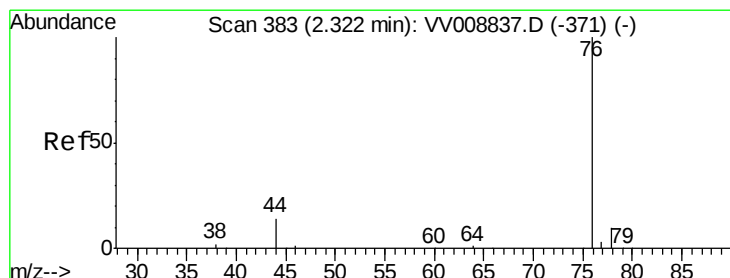
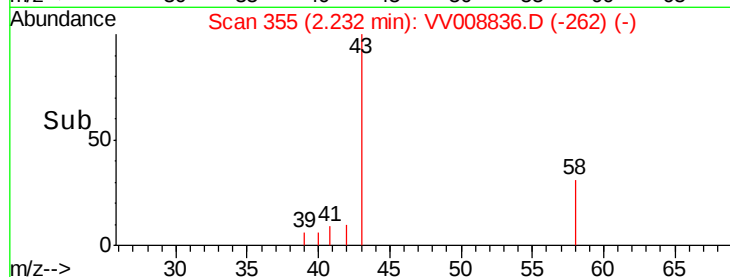
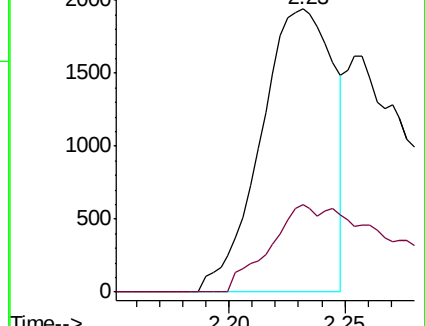
43 100

58 20.3 0.0 52.4



Abundance Ion 43.05 (42.75 to 43.75): VV008837.D (-338) (-)

Ion 58.05 (57.75 to 58.75): VV008837.D (-338) (-)



#14

Carbon disulfide

Concen: 0.941 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV008836.D

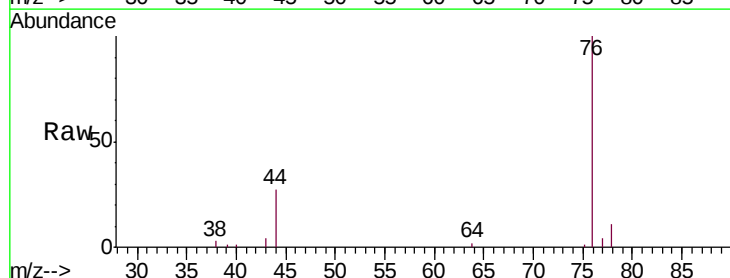
Acq: 05 Dec 2018 10:33

Tgt Ion: 76 Resp: 16349

Ion Ratio Lower Upper

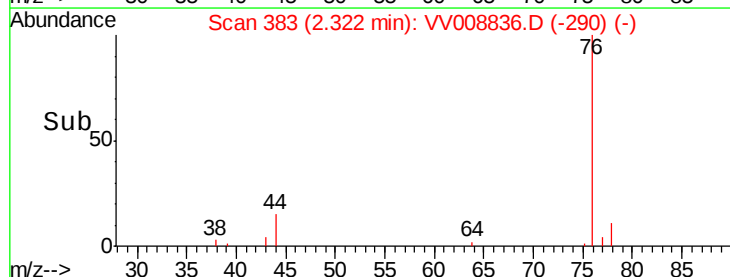
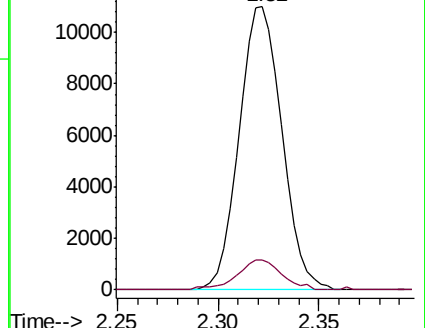
76 100

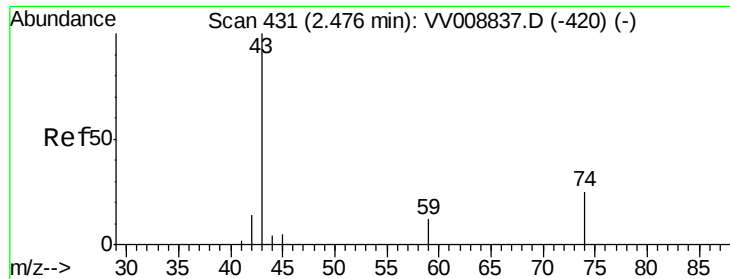
78 10.7 8.0 12.0



Abundance Ion 76.05 (75.75 to 76.75): VV008837.D (-371) (-)

Ion 78.00 (77.70 to 78.70): VV008837.D (-371) (-)





#15

Methyl Acetate

Concen: 0.740 ug/L

RT: 2.48 min Scan# 431

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

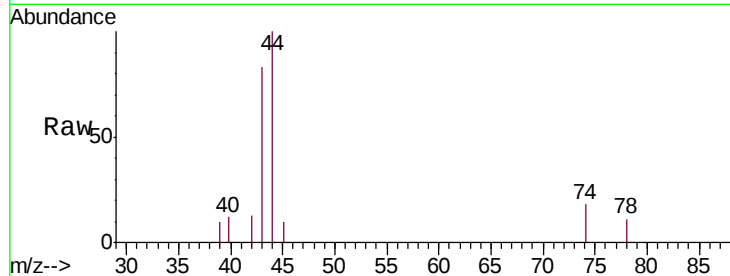
VSTD00165

Tgt Ion: 43 Resp: 1808

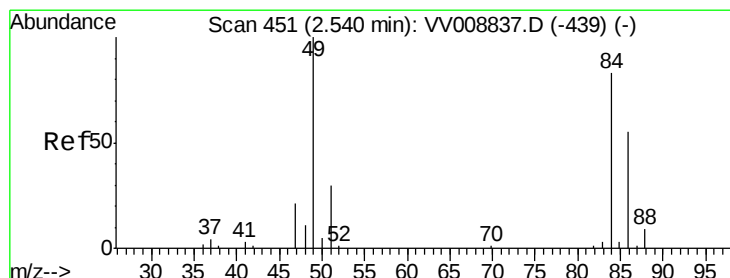
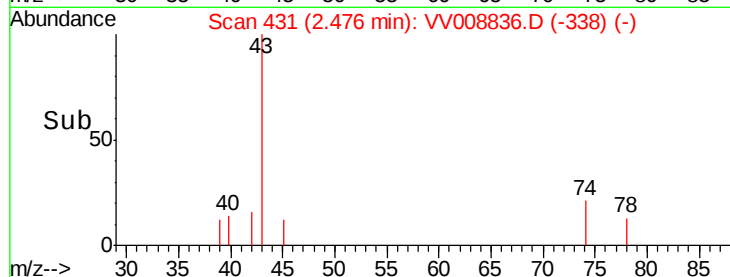
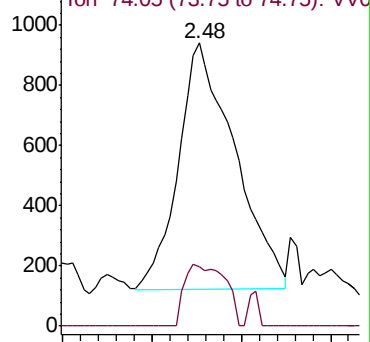
Ion Ratio Lower Upper

43 100

74 18.1 21.8 32.6#



Abundance Ion 43.05 (42.75 to 43.75): VV008836.D (-338) (-)



#16

Methylene chloride

Concen: 1.029 ug/L

RT: 2.54 min Scan# 451

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

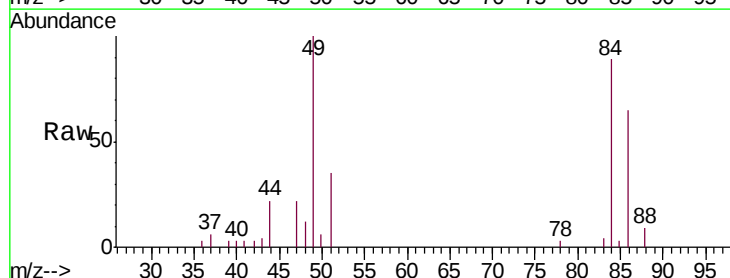
Tgt Ion: 84 Resp: 6879

Ion Ratio Lower Upper

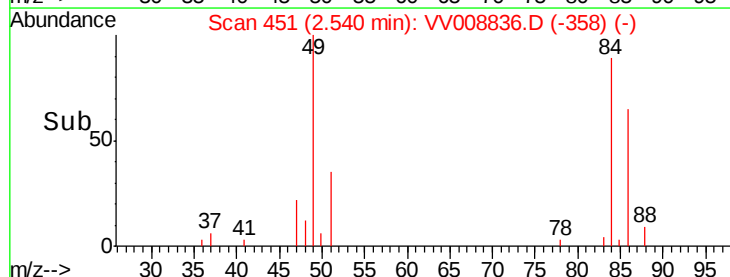
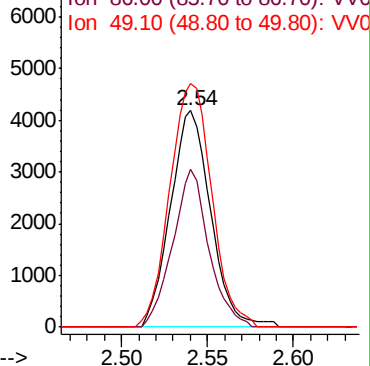
84 100

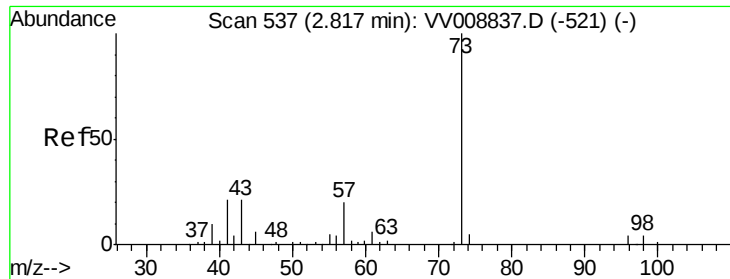
86 72.8 46.7 86.7

49 112.5 84.8 157.4



Abundance Ion 84.05 (83.75 to 84.75): VV008836.D (-358) (-)

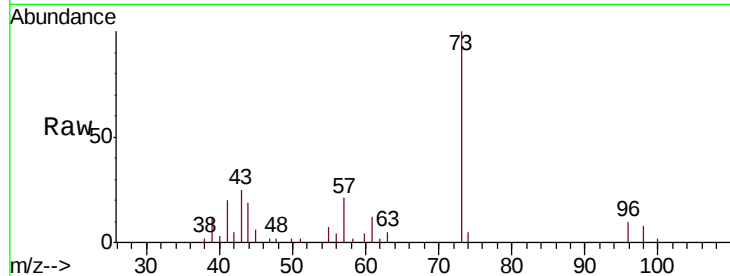




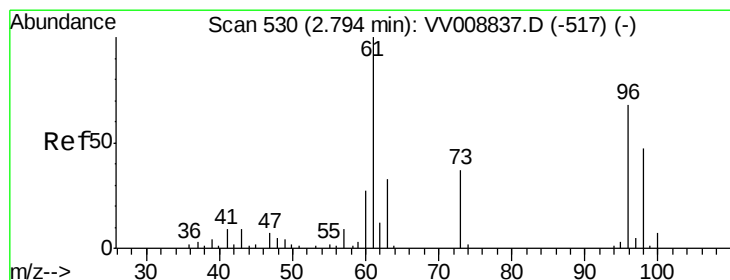
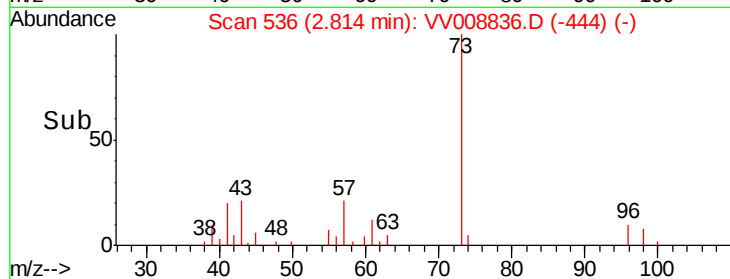
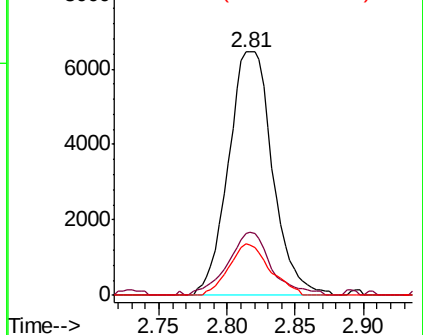
#17
Methyl tert-butyl Ether
Concen: 0.995 ug/L
RT: 2.81 min Scan# 536
Delta R.T. -0.00 min
Lab File: VV008836.D
Acq: 05 Dec 2018 10:33

Instrument :
MSVOA_V
ClientSampleId :
VSTD00165

Tgt Ion: 73 Resp: 14530
Ion Ratio Lower Upper
73 100
43 25.4 17.3 25.9
57 19.5 16.8 25.2

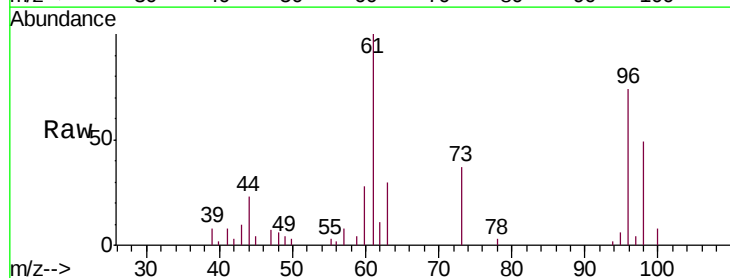


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

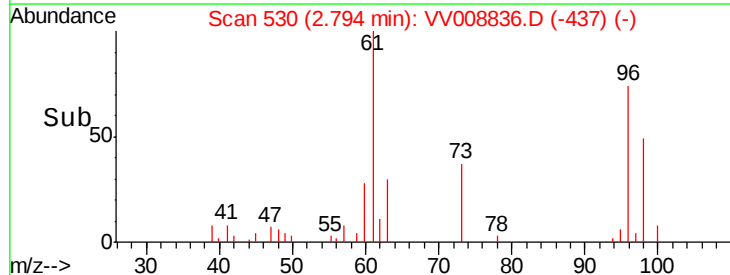
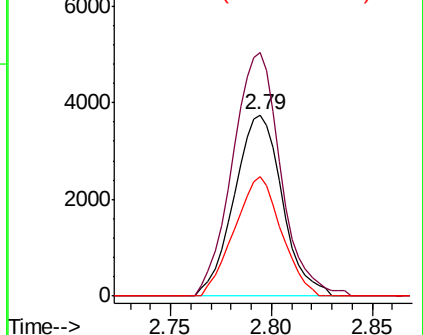


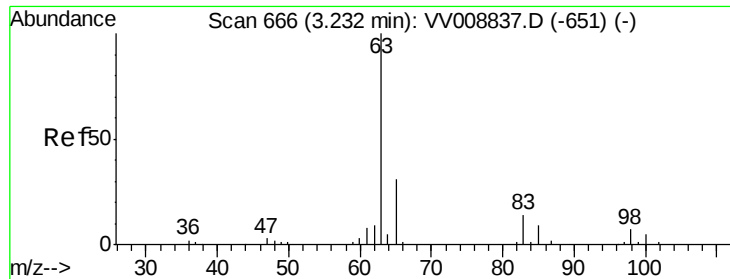
#18
trans-1,2-Dichloroethene
Concen: 0.961 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV008836.D
Acq: 05 Dec 2018 10:33

Tgt Ion: 96 Resp: 6252
Ion Ratio Lower Upper
96 100
61 134.3 103.0 191.4
98 66.0 48.9 90.9



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

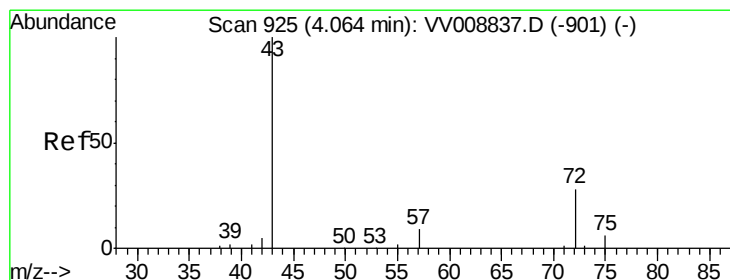
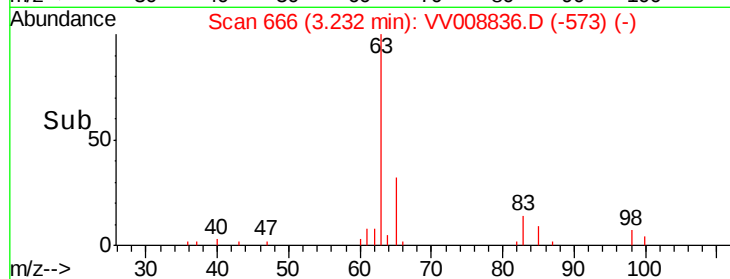
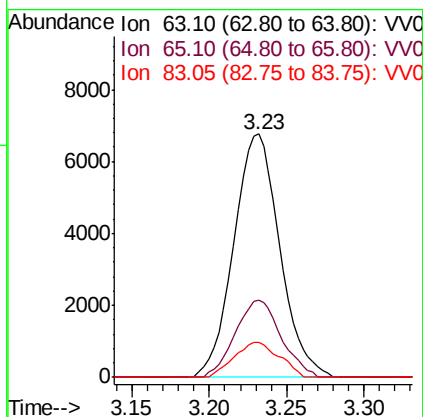
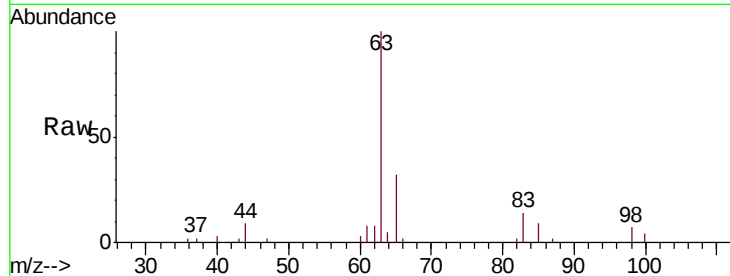




#19
 1,1-Dichloroethane
 Concen: 0.974 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

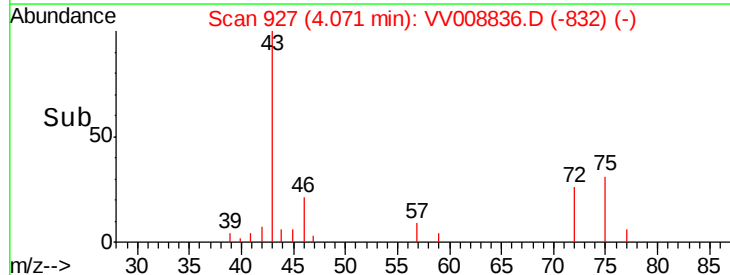
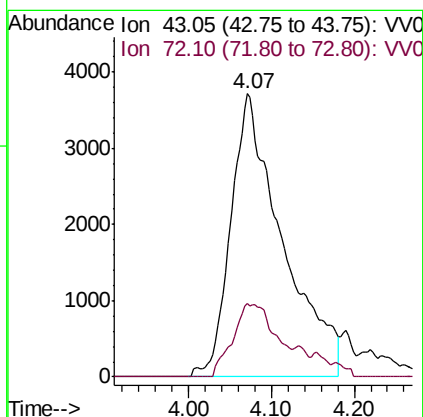
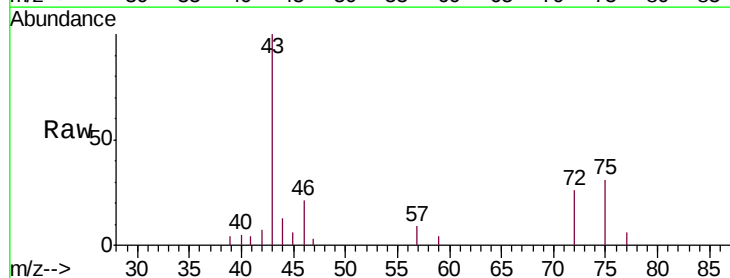
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00165

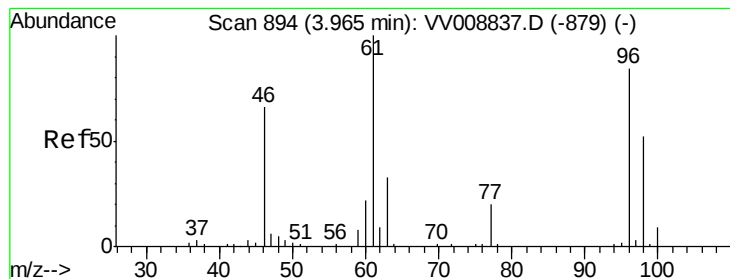
Tgt Ion: 63 Resp: 13982
 Ion Ratio Lower Upper
 63 100
 65 31.9 22.0 40.8
 83 14.2 10.1 18.7



#21
 2-Butanone
 Concen: 8.712 ug/L
 RT: 4.07 min Scan# 927
 Delta R.T. 0.01 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

Tgt Ion: 43 Resp: 16038
 Ion Ratio Lower Upper
 43 100
 72 21.4 13.7 41.1



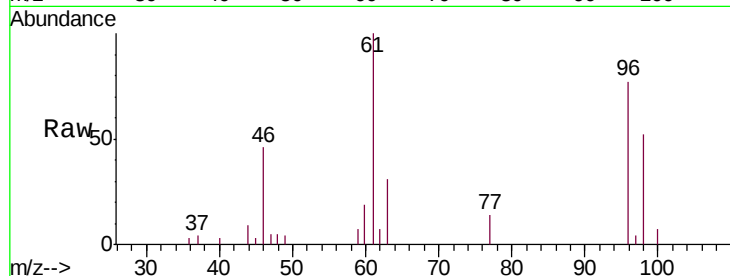


#22

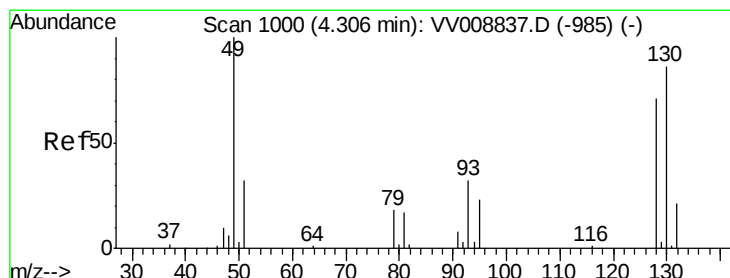
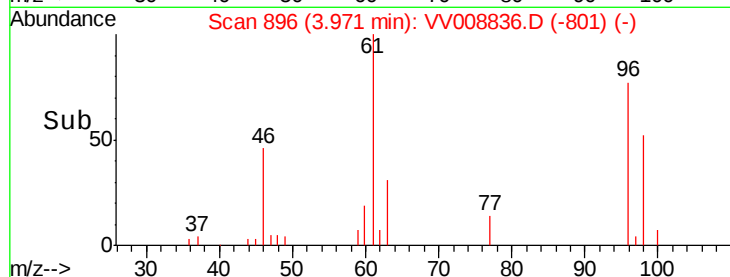
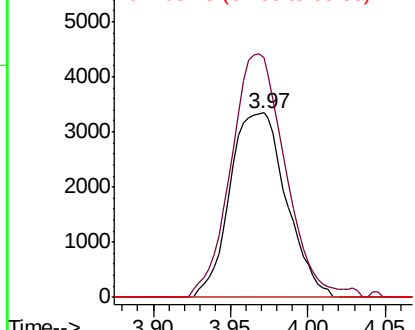
cis-1,2-Dichloroethene
 Concen: 0.924 ug/L
 RT: 3.97 min Scan# 896
 Delta R.T. 0.01 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00165

Tgt Ion: 96 Resp: 8444
 Ion Ratio Lower Upper
 96 100
 61 130.0 83.2 154.6
 68 0.0 0.0 0.0



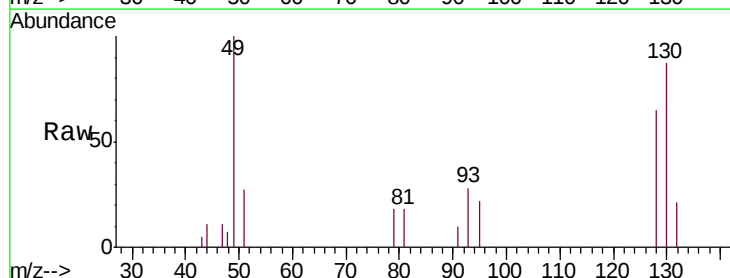
Abundance Ion 96.00 (95.70 to 96.70): VV008836.D (-896) (-)
 Ion 61.05 (60.75 to 61.75): VV008836.D (-896) (-)
 Ion 68.15 (67.85 to 68.85): VV008836.D (-896) (-)



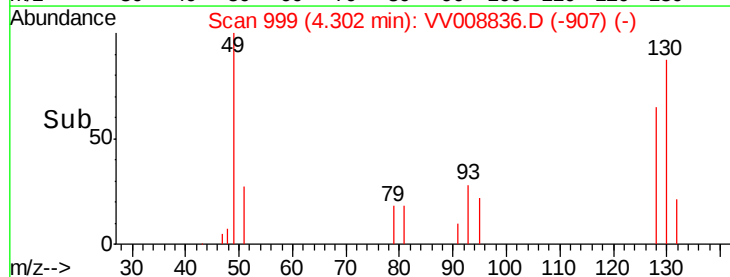
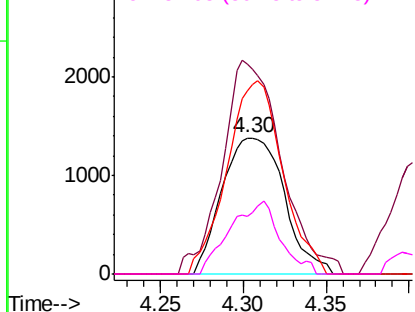
#23

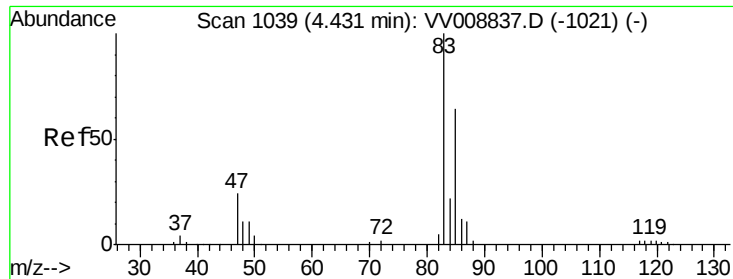
Bromochloromethane
 Concen: 0.960 ug/L
 RT: 4.30 min Scan# 999
 Delta R.T. -0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

Tgt Ion: 128 Resp: 3606
 Ion Ratio Lower Upper
 128 100
 49 154.3 98.1 182.3
 130 134.5 84.2 156.4
 51 42.4 35.4 53.2



Abundance Ion 127.90 (127.60 to 128.60): VV008836.D (-999) (-)
 Ion 49.10 (48.80 to 49.80): VV008836.D (-999) (-)
 Ion 129.95 (129.65 to 130.65): VV008836.D (-999) (-)
 Ion 51.05 (50.75 to 51.75): VV008836.D (-999) (-)

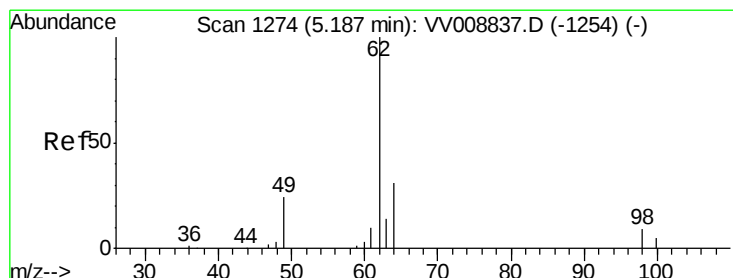
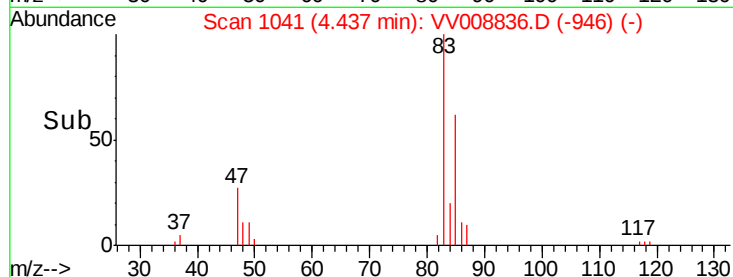
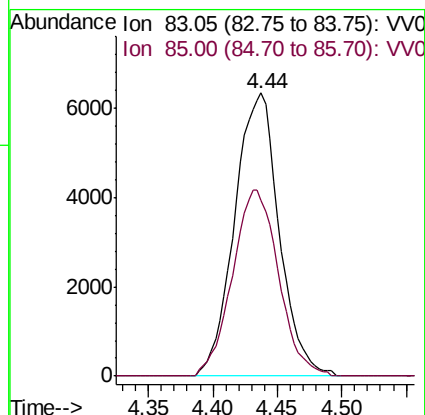
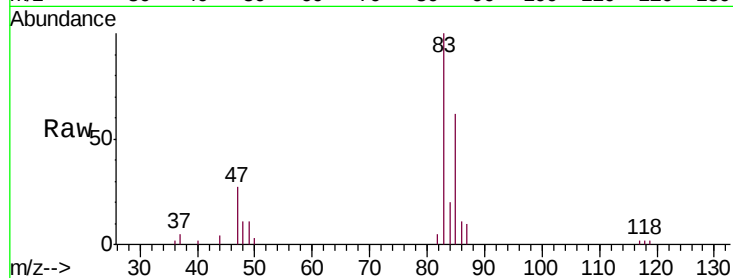




#25
Chloroform
Concen: 0.965 ug/L
RT: 4.44 min Scan# 1041
Delta R.T. 0.01 min
Lab File: VV008836.D
Acq: 05 Dec 2018 10:33

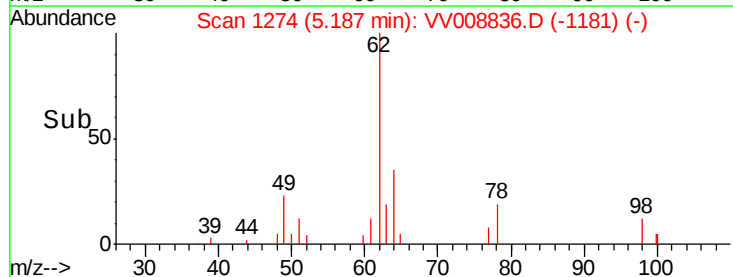
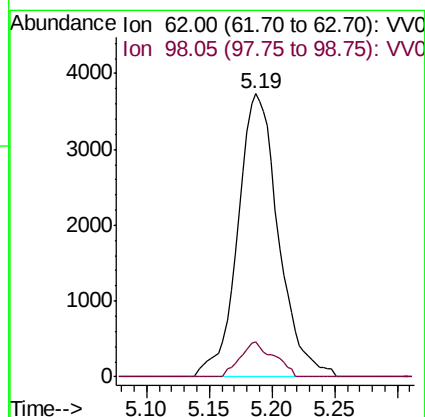
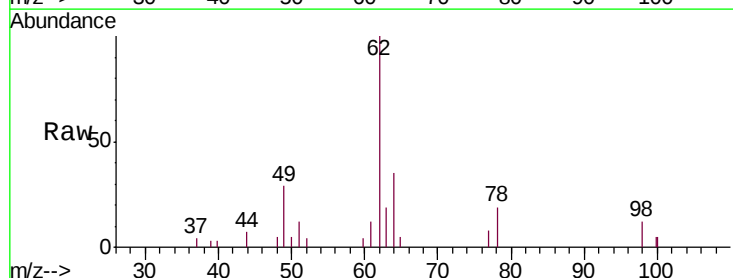
Instrument :
MSVOA_V
ClientSampleId :
VSTD00165

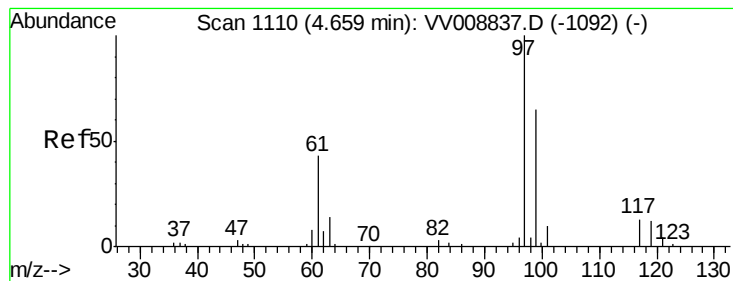
Tgt Ion: 83 Resp: 15237
Ion Ratio Lower Upper
83 100
85 62.3 44.9 83.5



#27
1,2-Dichloroethane
Concen: 0.928 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VV008836.D
Acq: 05 Dec 2018 10:33

Tgt Ion: 62 Resp: 8422
Ion Ratio Lower Upper
62 100
98 12.5 7.3 10.9#





#29

1,1,1-Trichloroethane

Concen: 0.991 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD00165

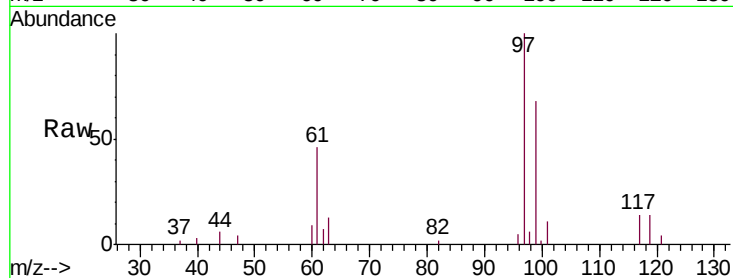
Tgt Ion: 97 Resp: 12852

Ion Ratio Lower Upper

97 100

99 62.9 50.7 76.1

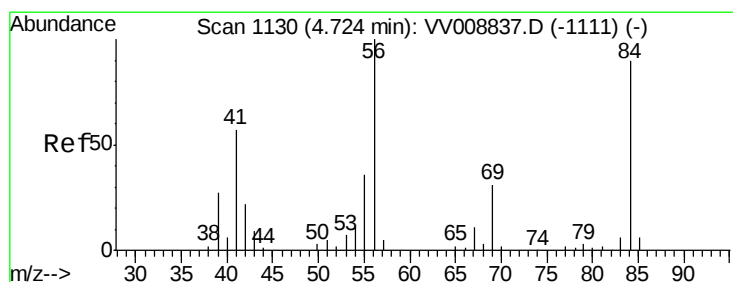
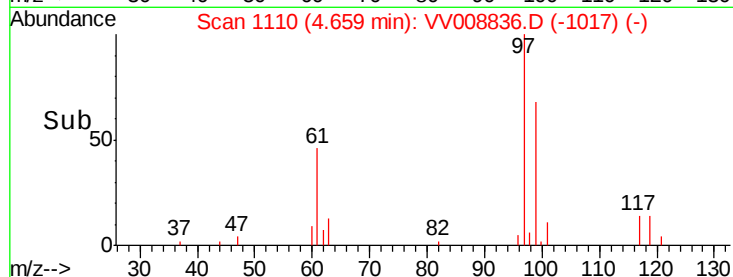
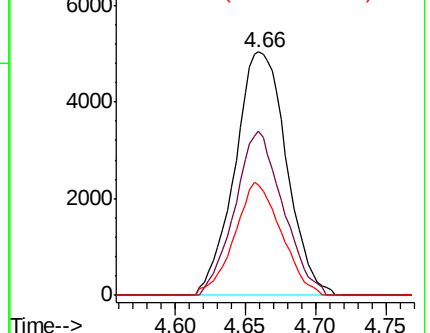
61 42.2 34.0 51.0



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 0.886 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

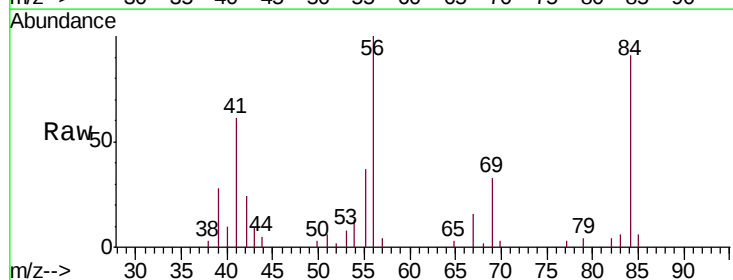
Tgt Ion: 56 Resp: 11889

Ion Ratio Lower Upper

56 100

69 33.4 25.4 38.2

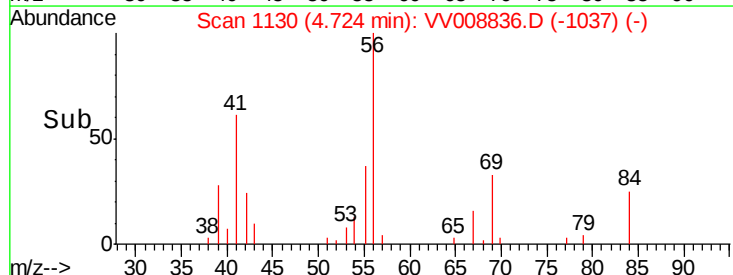
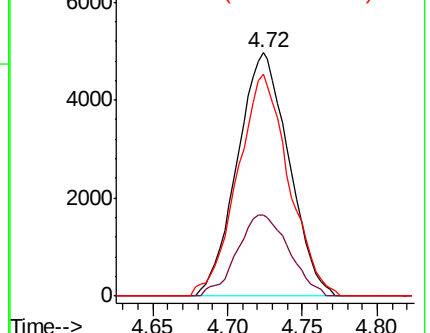
84 90.6 72.2 108.2

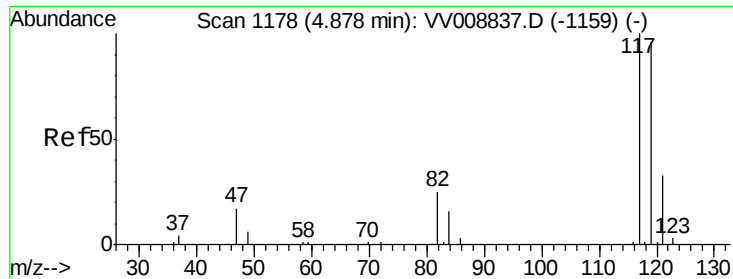


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 1.021 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampled :

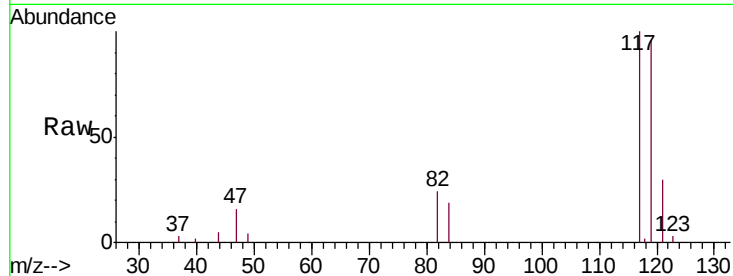
VSTD00165

Tgt Ion:117 Resp: 11504

Ion Ratio Lower Upper

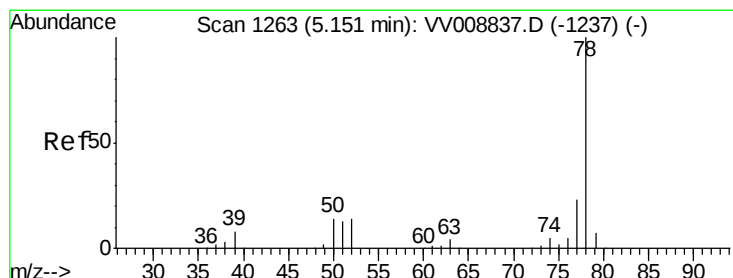
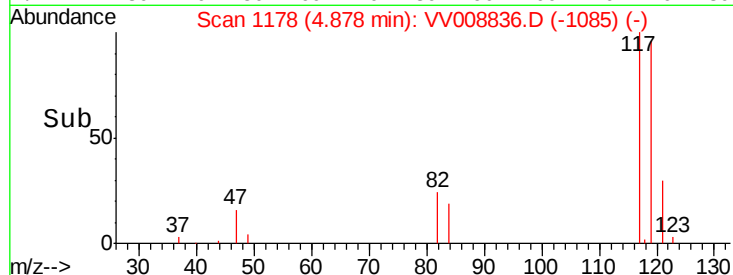
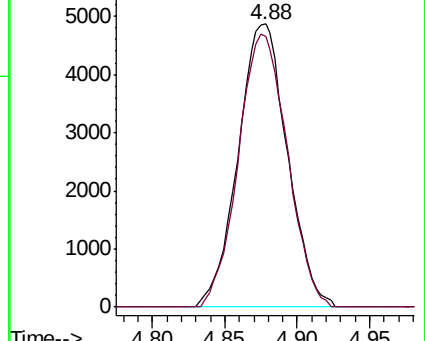
117 100

119 95.8 77.1 115.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.931 ug/L

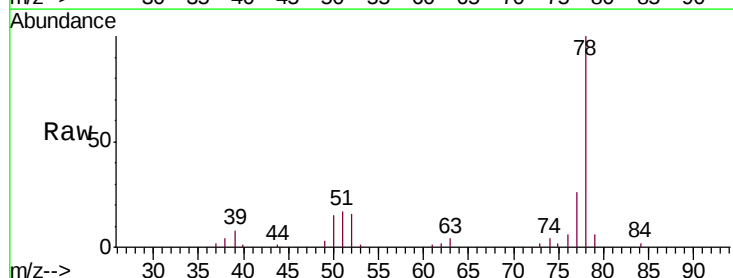
RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

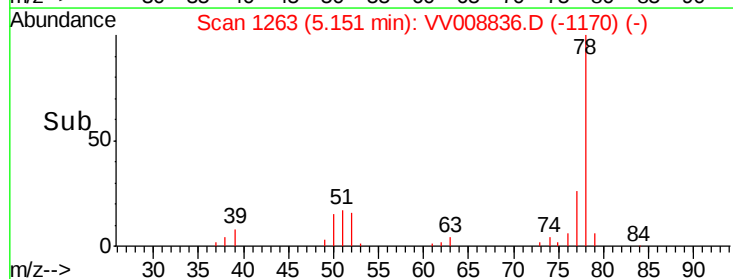
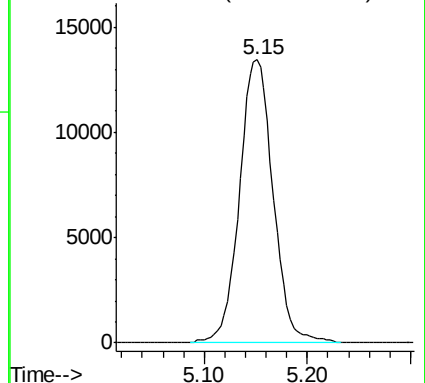
Lab File: VV008836.D

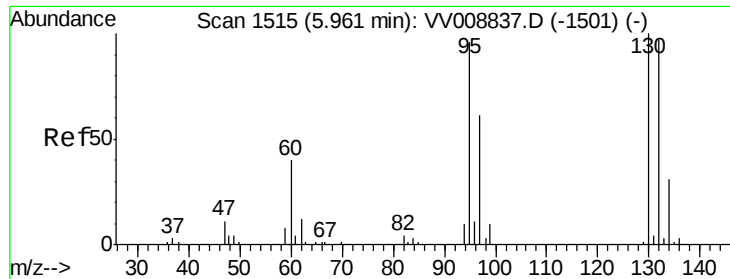
Acq: 05 Dec 2018 10:33

Tgt Ion: 78 Resp: 30487



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 0.977 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD00165

Tgt Ion: 95 Resp: 8986

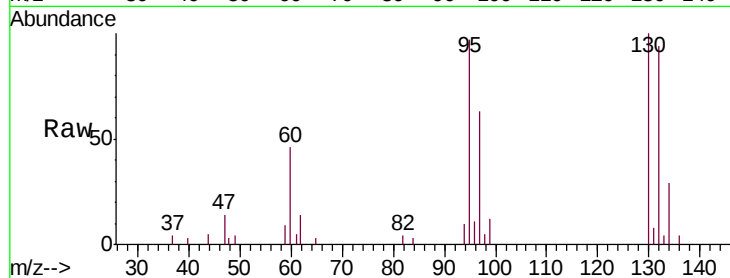
Ion Ratio Lower Upper

95 100

97 65.1 44.4 82.5

132 97.2 70.7 131.3

130 103.6 72.9 135.3

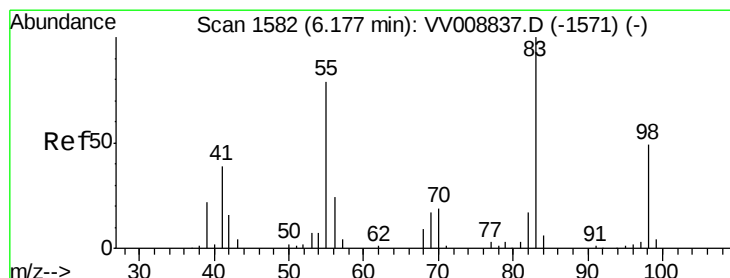
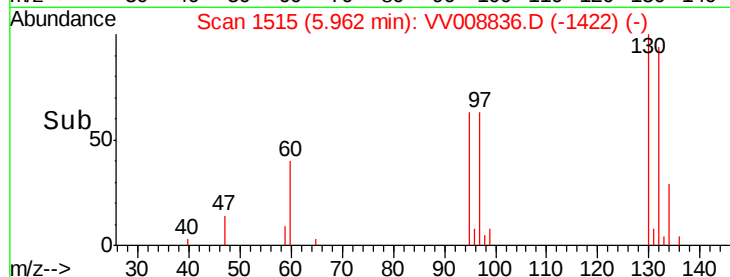
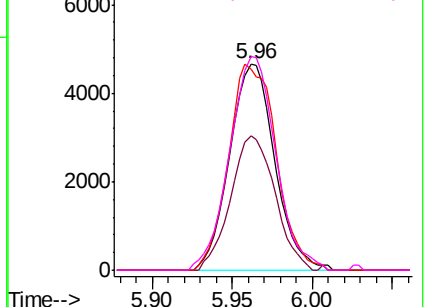


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.947 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

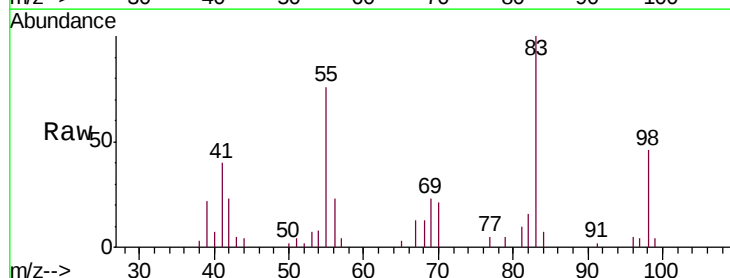
Tgt Ion: 83 Resp: 13769

Ion Ratio Lower Upper

83 100

55 73.0 60.0 90.0

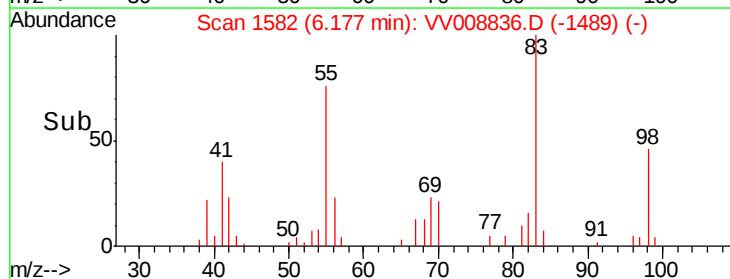
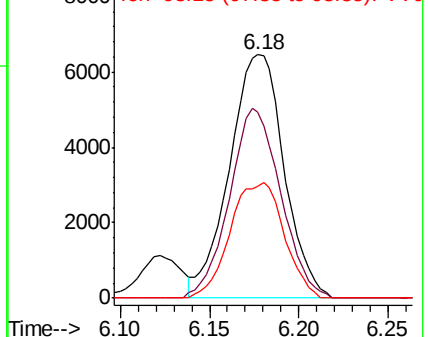
98 46.7 39.0 58.6

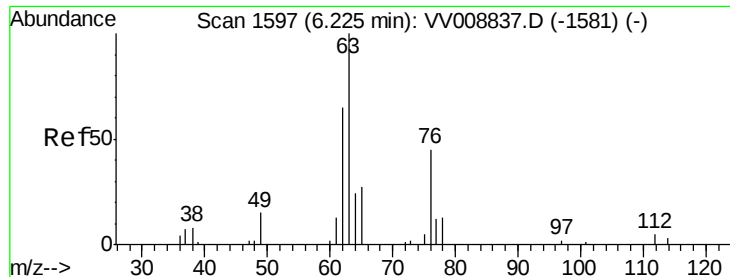


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 0.963 ug/L

RT: 6.23 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

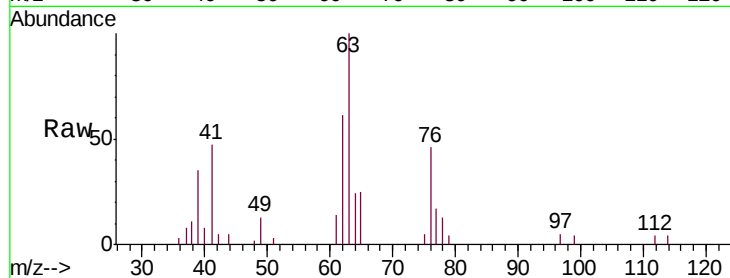
VSTD00165

Tgt Ion: 63 Resp: 7857

Ion Ratio Lower Upper

63 100

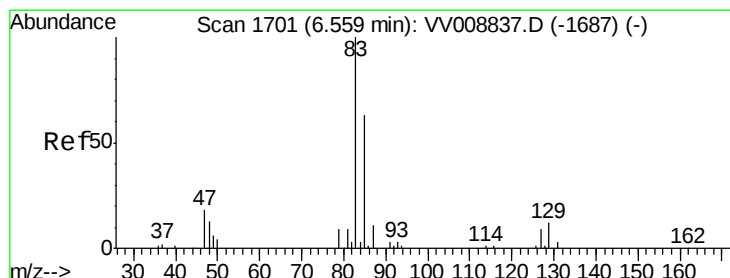
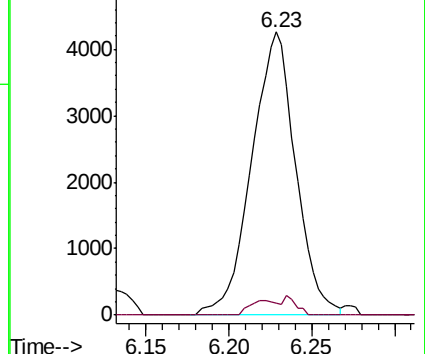
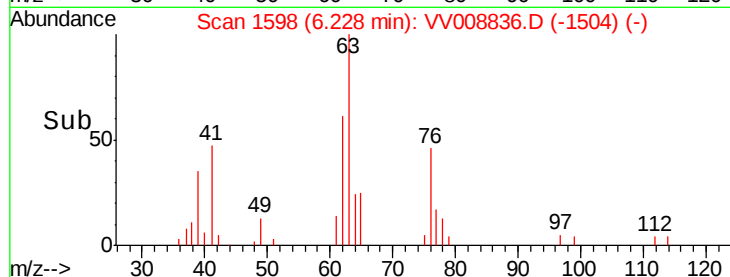
112 1.8 3.5 5.3#



Abundance Ion 63.10 (62.80 to 63.80): VV008837.D (-1581) (-)

Ion 112.10 (111.80 to 112.80): VV008837.D (-1581) (-)

Time-->



#38

Bromodichloromethane

Concen: 0.964 ug/L

RT: 6.56 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

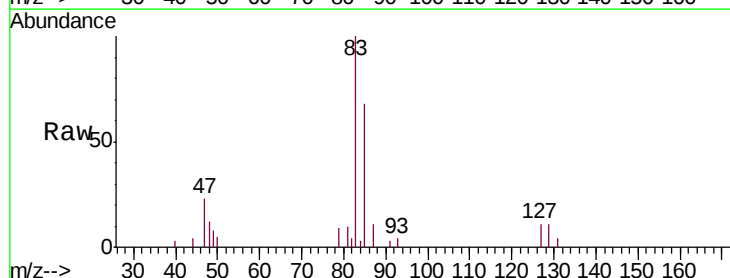
Tgt Ion: 83 Resp: 9042

Ion Ratio Lower Upper

83 100

85 67.6 44.2 82.0

127 11.0 7.5 11.3

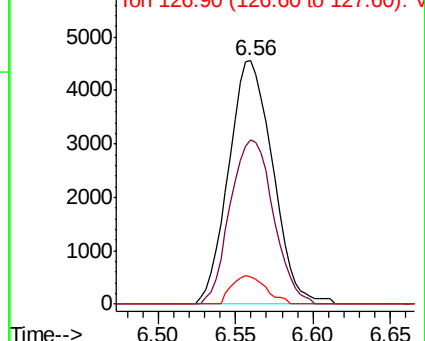
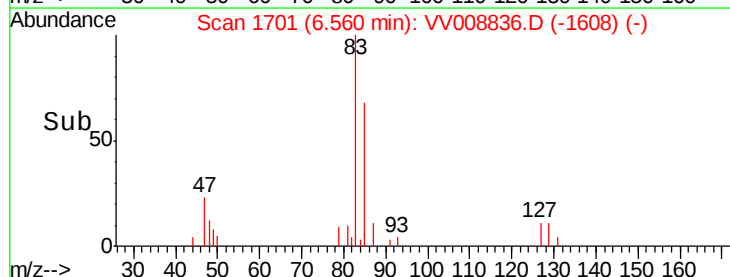


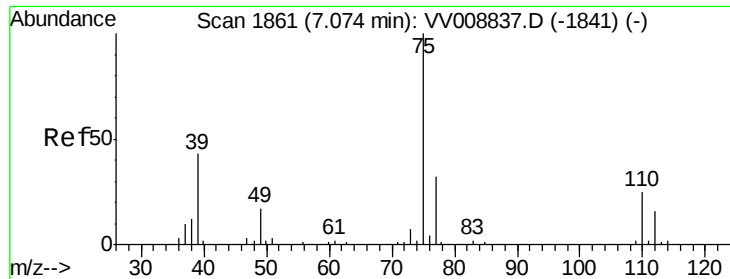
Abundance Ion 82.95 (82.65 to 83.65): VV008837.D (-1687) (-)

Ion 85.00 (84.70 to 85.70): VV008837.D (-1687) (-)

Ion 126.90 (126.60 to 127.60): VV008837.D (-1687) (-)

Time-->

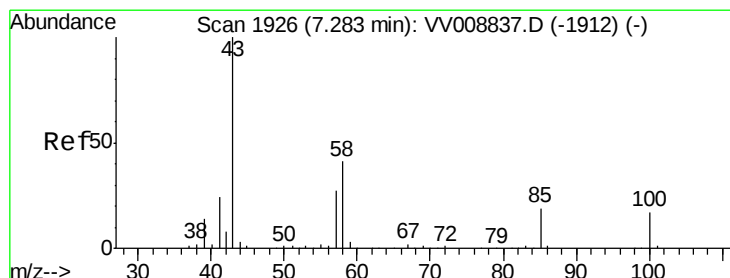
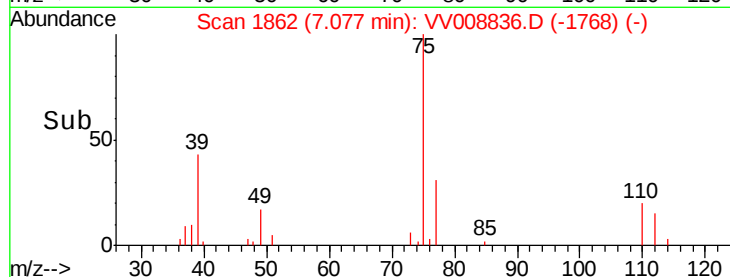
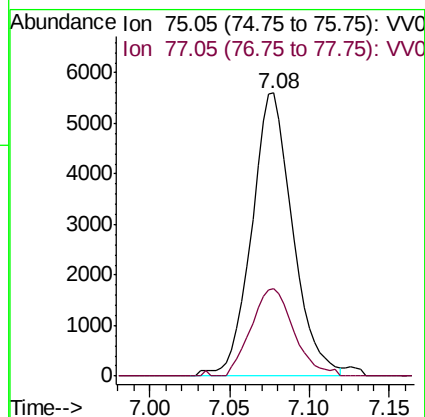
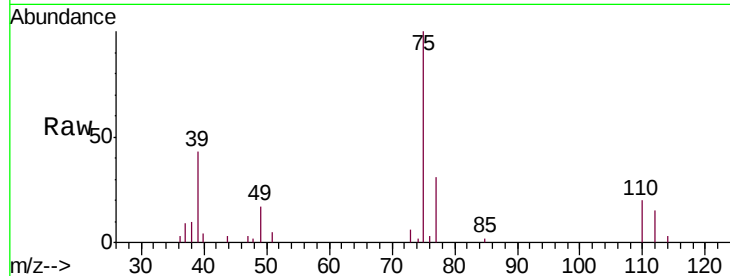




#39
 cis-1,3-Dichloropropene
 Concen: 0.919 ug/L
 RT: 7.08 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

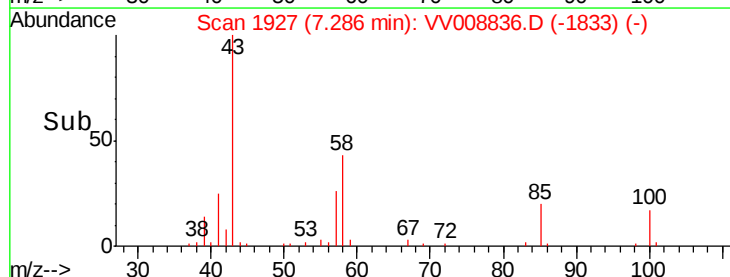
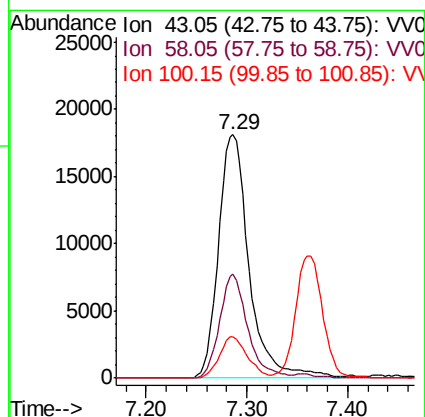
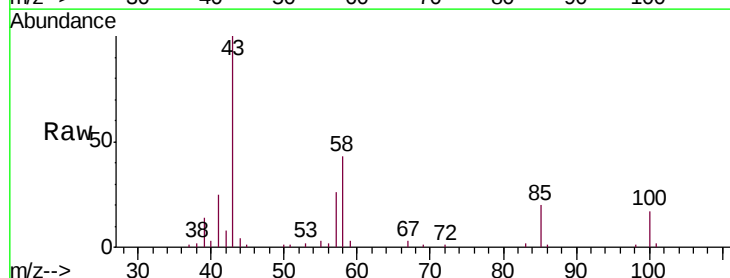
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00165

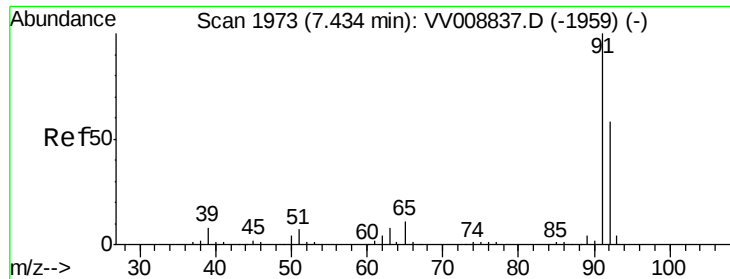
Tgt Ion: 75 Resp: 9910
 Ion Ratio Lower Upper
 75 100
 77 30.9 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 9.164 ug/L
 RT: 7.29 min Scan# 1927
 Delta R.T. 0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

Tgt Ion: 43 Resp: 38328
 Ion Ratio Lower Upper
 43 100
 58 39.1 32.6 48.8
 100 15.6 13.4 20.0





#42

Toluene

Concen: 0.957 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

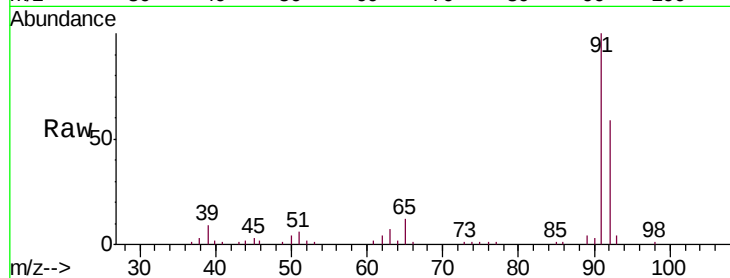
VSTD00165

Tgt Ion: 91 Resp: 32980

Ion Ratio Lower Upper

91 100

92 58.7 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

20000

15000

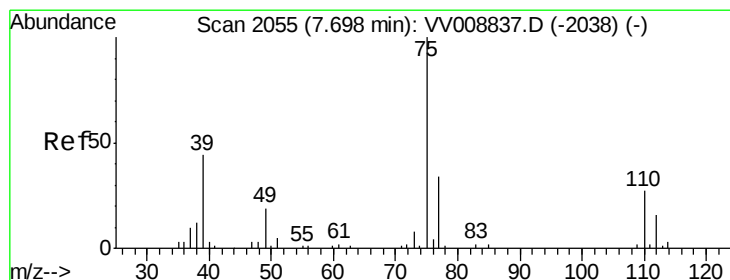
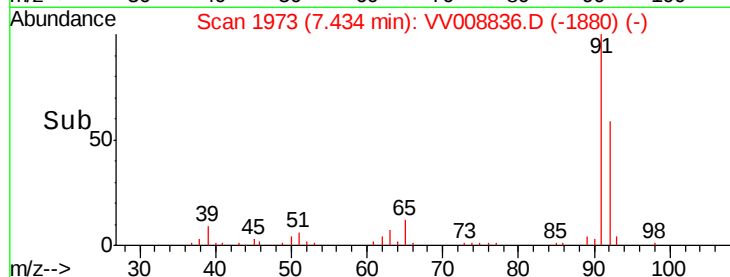
10000

5000

0

Time-->

7.35 7.40 7.45 7.50



#44

trans-1,3-Dichloropropene

Concen: 0.878 ug/L

RT: 7.70 min Scan# 2056

Delta R.T. 0.00 min

Lab File: VV008836.D

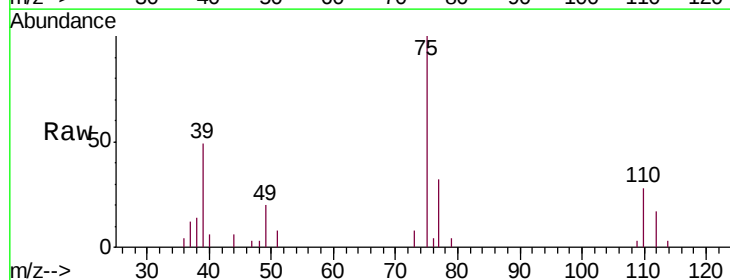
Acq: 05 Dec 2018 10:33

Tgt Ion: 75 Resp: 7493

Ion Ratio Lower Upper

75 100

77 31.8 23.6 43.8



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.70

4000

3000

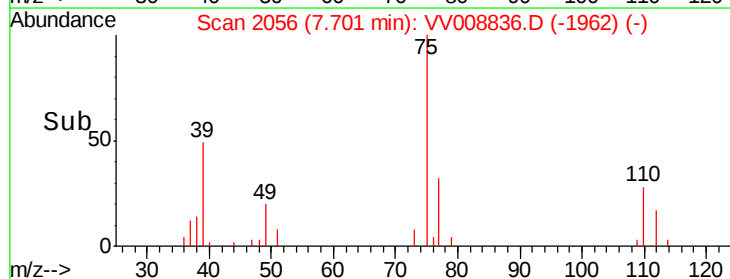
2000

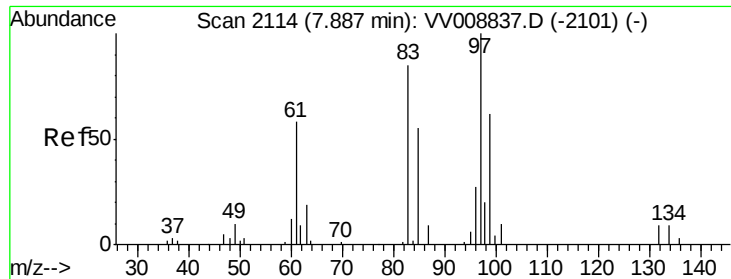
1000

0

Time-->

7.65 7.70 7.75

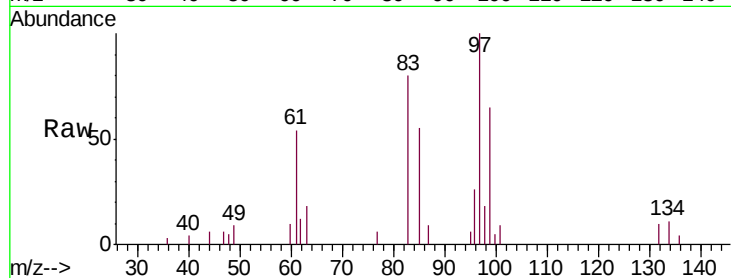




#45
 1,1,2-Trichloroethane
 Concen: 1.042 ug/L
 RT: 7.89 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00165

Tgt Ion:	97	Resp:	5659
Ion	Ratio	Lower	Upper
97	100		
99	65.4	43.3	80.3
83	80.0	59.4	110.2
85	54.5	38.5	71.5



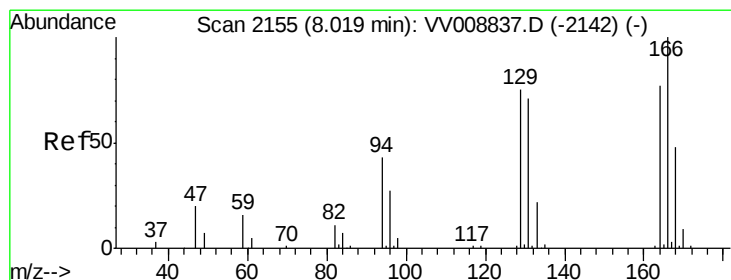
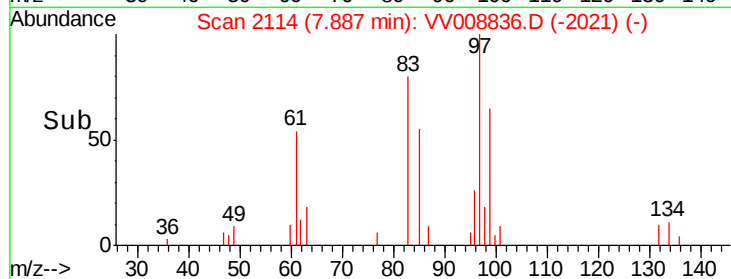
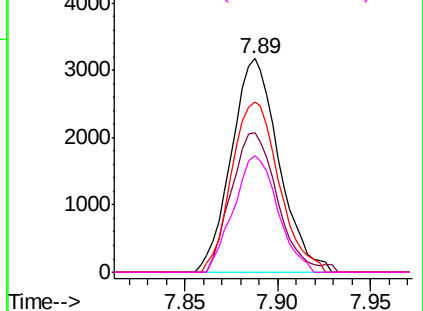
Abundance

Ion 96.95 (96.65 to 97.65): VV008836.D (-2021) (-)

Ion 99.05 (98.75 to 99.75): VV008836.D (-2021) (-)

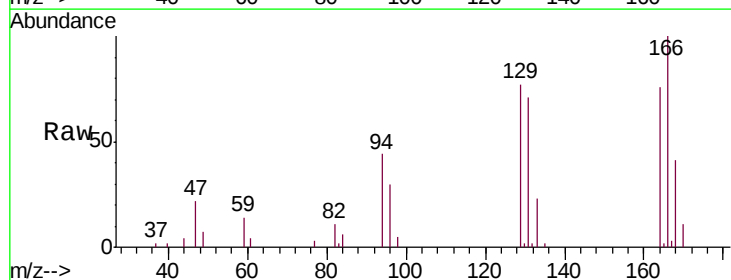
Ion 82.95 (82.65 to 83.65): VV008836.D (-2021) (-)

Ion 85.00 (84.70 to 85.70): VV008836.D (-2021) (-)



#47
 Tetrachloroethene
 Concen: 0.997 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

Tgt Ion:	164	Resp:	7134
Ion	Ratio	Lower	Upper
164	100		
129	100.9	68.8	127.8
131	93.8	64.8	120.4
166	131.5	91.5	169.9



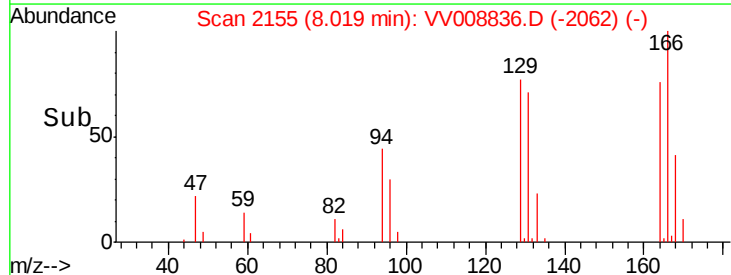
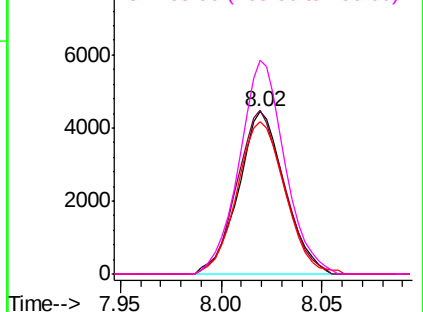
Abundance

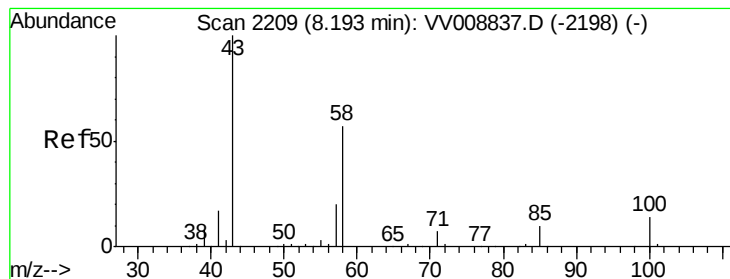
Ion 163.90 (163.60 to 164.60): VV008836.D (-2062) (-)

Ion 128.95 (128.65 to 129.65): VV008836.D (-2062) (-)

Ion 130.95 (130.65 to 131.65): VV008836.D (-2062) (-)

Ion 165.90 (165.60 to 166.60): VV008836.D (-2062) (-)





#48

2-Hexanone

Concen: 9.204 ug/L

RT: 8.20 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD00165

Tgt Ion: 43 Resp: 26981

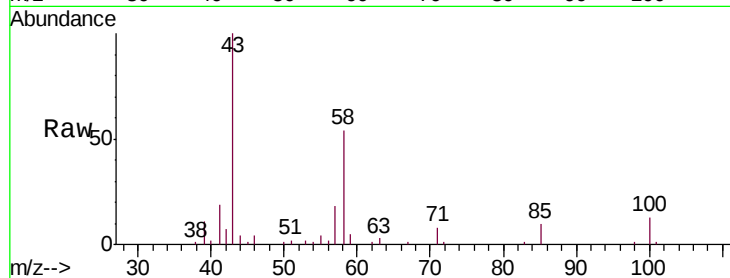
Ion Ratio Lower Upper

43 100

58 56.2 44.4 66.6

57 19.3 15.8 23.8

100 12.1 10.9 16.3



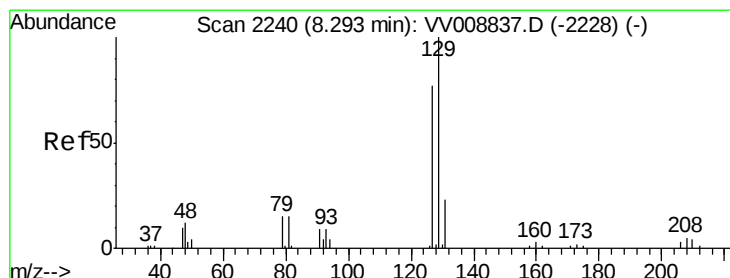
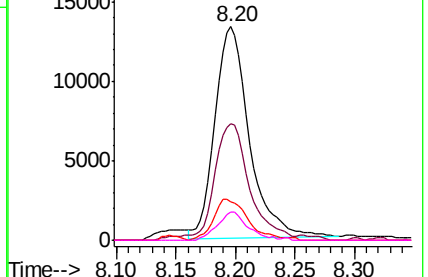
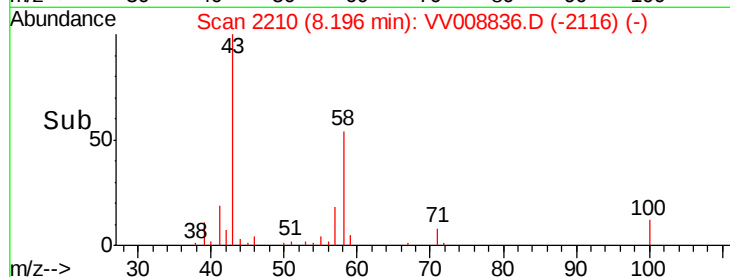
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0

Time--> 8.10 8.15 8.20 8.25 8.30



#49

Dibromochloromethane

Concen: 0.968 ug/L

RT: 8.29 min Scan# 2240

Delta R.T. 0.00 min

Lab File: VV008836.D

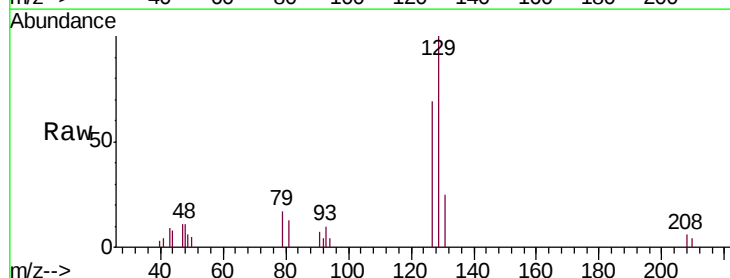
Acq: 05 Dec 2018 10:33

Tgt Ion: 129 Resp: 5818

Ion Ratio Lower Upper

129 100

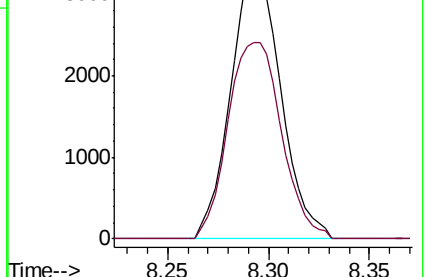
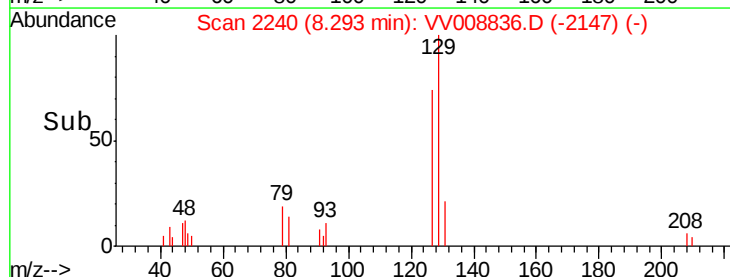
127 69.2 54.0 100.4

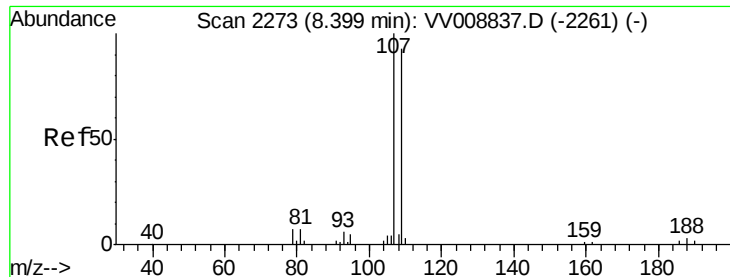


Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

Time--> 8.25 8.30 8.35

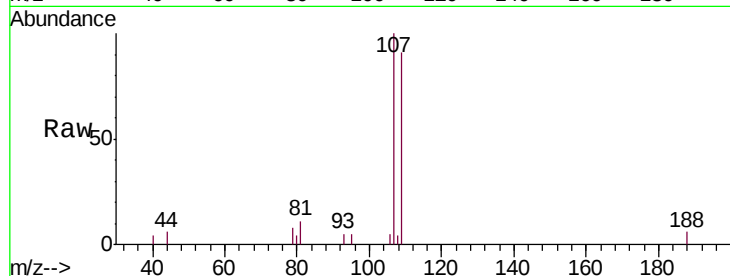




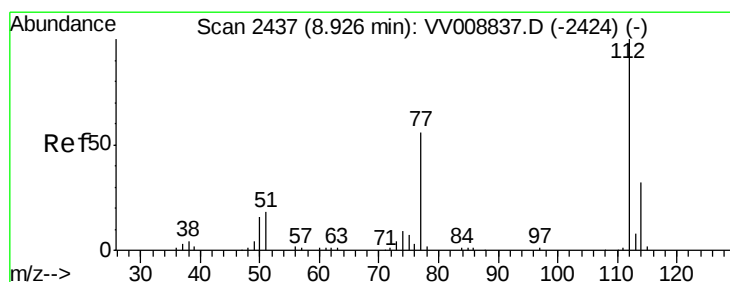
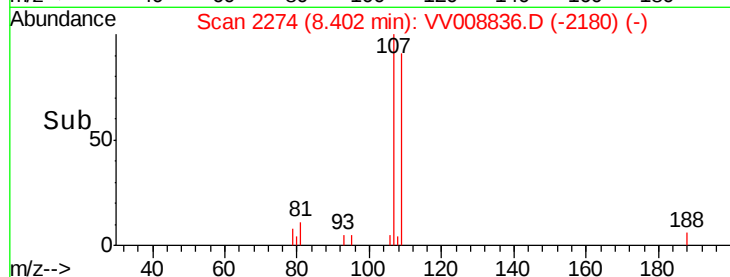
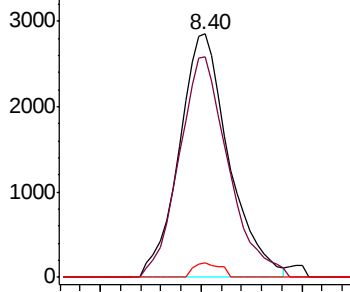
#50
1,2-Dibromoethane
Concen: 0.952 ug/L
RT: 8.40 min Scan# 2274
Delta R.T. 0.00 min
Lab File: VV008836.D
Acq: 05 Dec 2018 10:33

Instrument :
MSVOA_V
ClientSampleId :
VSTD00165

Tgt Ion:107 Resp: 4898
Ion Ratio Lower Upper
107 100
109 90.5 65.3 121.3
188 5.9 2.5 3.7#

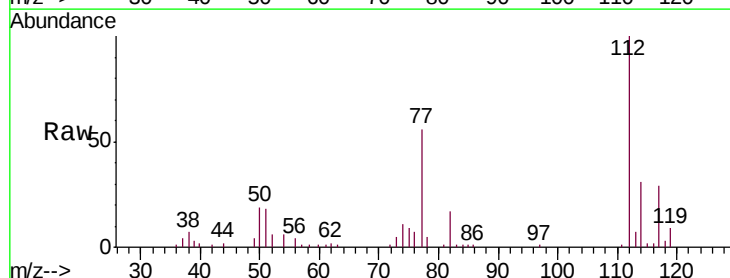


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

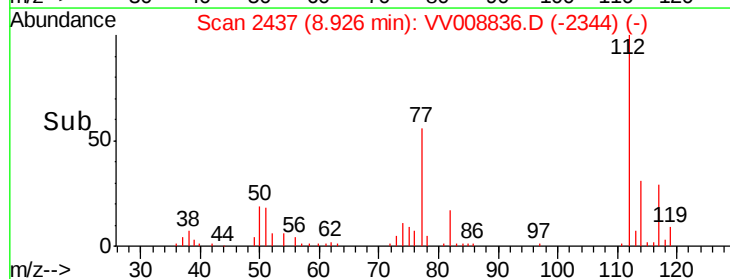
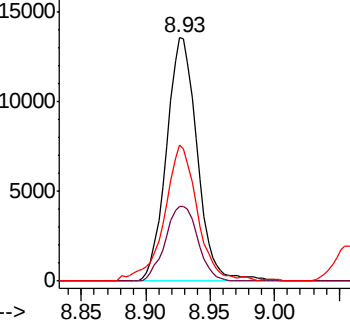


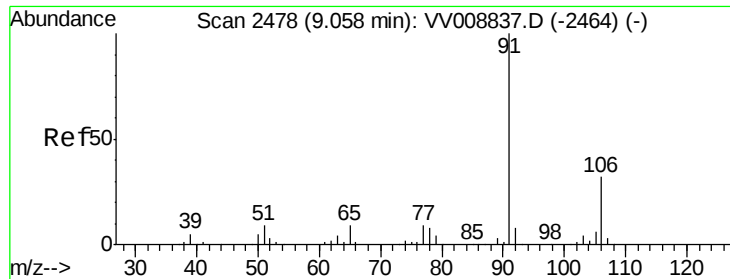
#51
Chlorobenzene
Concen: 0.988 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV008836.D
Acq: 05 Dec 2018 10:33

Tgt Ion:112 Resp: 22469
Ion Ratio Lower Upper
112 100
114 30.8 22.3 41.5
77 55.6 45.2 67.8



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 0.948 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

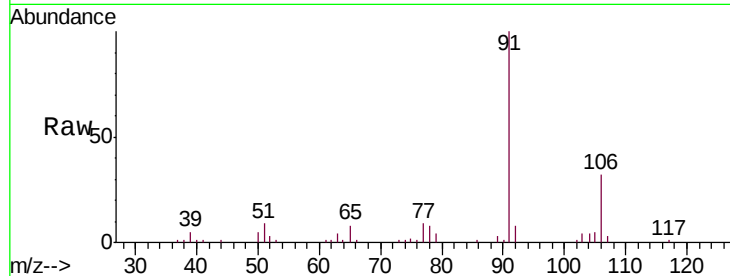
VSTD00165

Tgt Ion: 91 Resp: 35400

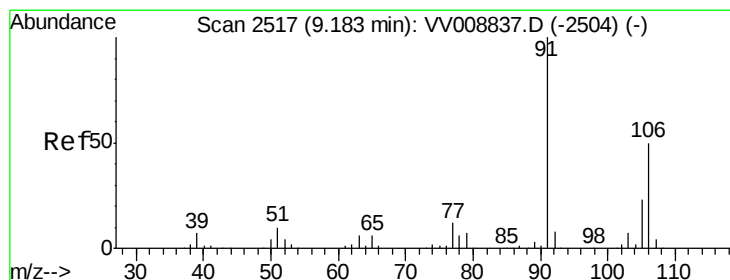
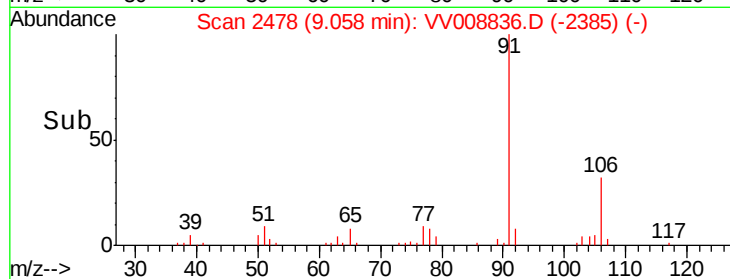
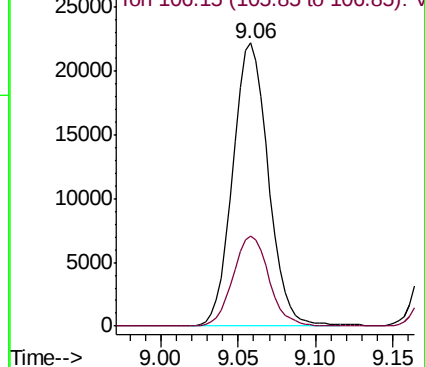
Ion Ratio Lower Upper

91 100

106 31.7 22.1 41.1



Abundance Ion 91.15 (90.85 to 91.85): VV008836.D (-2385) (-)



#53

m,p-xylene

Concen: 0.953 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV008836.D

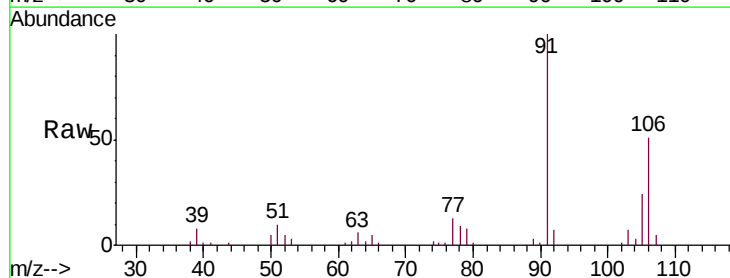
Acq: 05 Dec 2018 10:33

Tgt Ion: 106 Resp: 13382

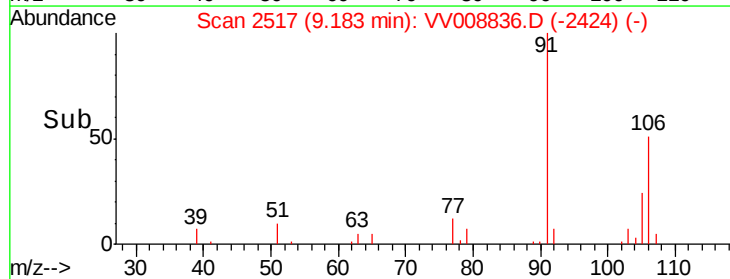
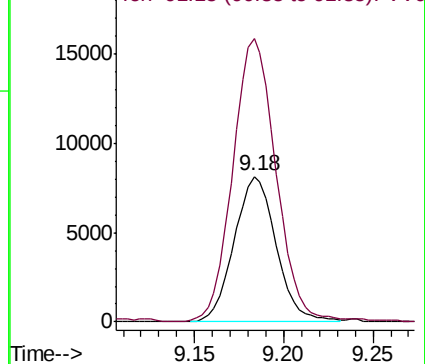
Ion Ratio Lower Upper

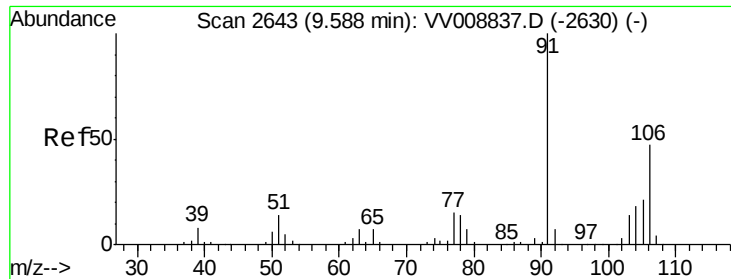
106 100

91 194.8 141.9 263.5



Abundance Ion 106.15 (105.85 to 106.85): VV008836.D (-2424) (-)





#54

o-xylene

Concen: 0.928 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

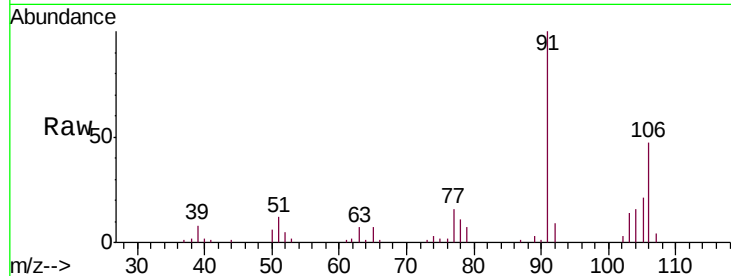
VSTD00165

Tgt Ion:106 Resp: 12497

Ion Ratio Lower Upper

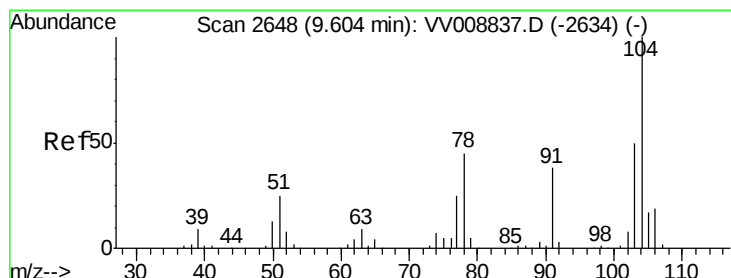
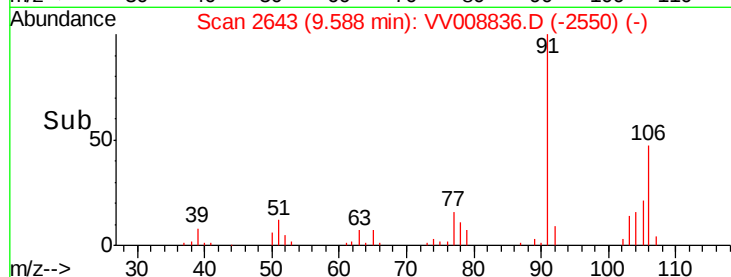
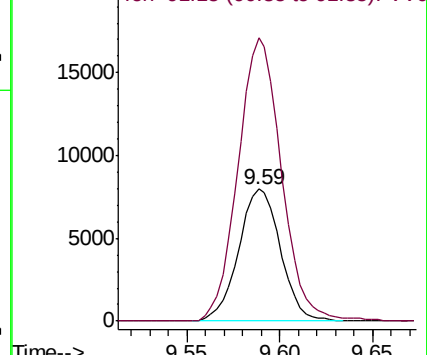
106 100

91 214.5 149.0 276.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.892 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV008836.D

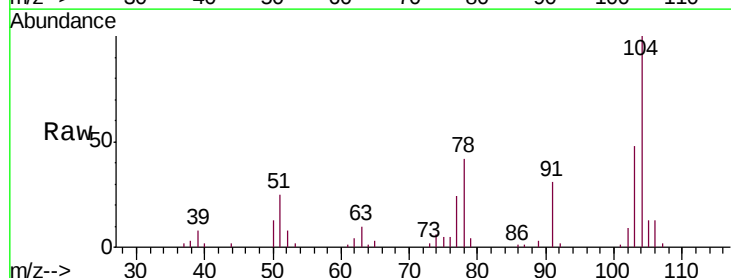
Acq: 05 Dec 2018 10:33

Tgt Ion:104 Resp: 20051

Ion Ratio Lower Upper

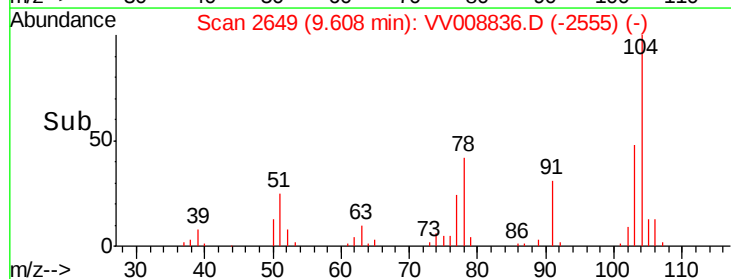
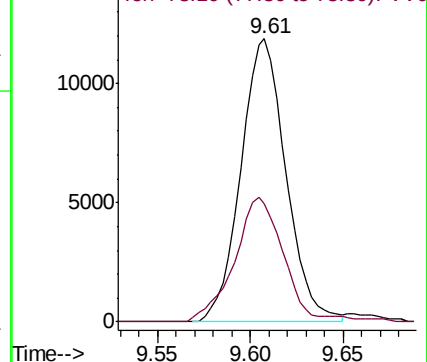
104 100

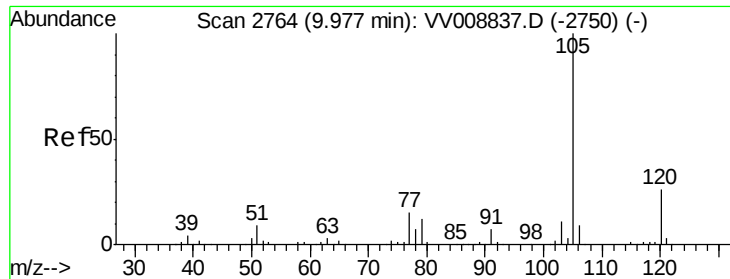
78 41.7 31.4 58.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 0.939 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampled :

VSTD00165

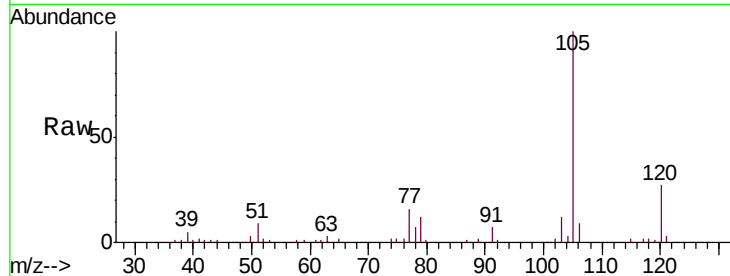
Tgt Ion: 105 Resp: 34537

Ion Ratio Lower Upper

105 100

120 26.1 21.2 31.8

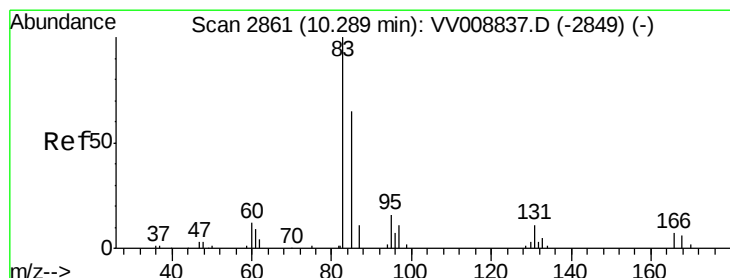
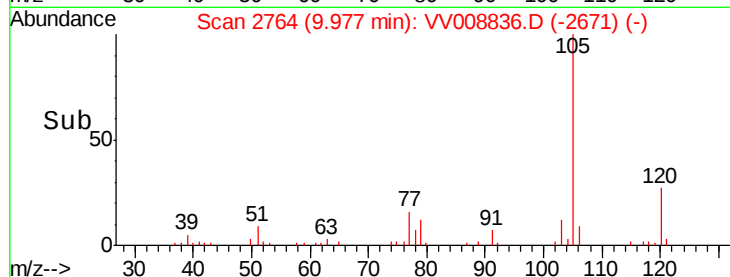
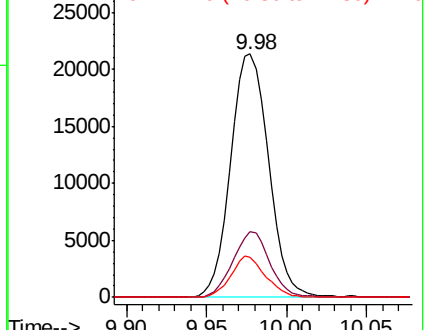
77 15.3 12.4 18.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.894 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

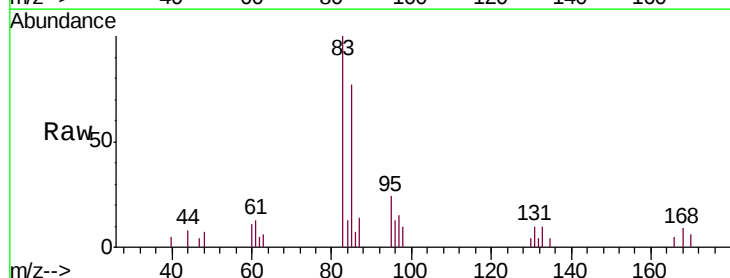
Tgt Ion: 83 Resp: 5141

Ion Ratio Lower Upper

83 100

85 77.2 45.8 85.0

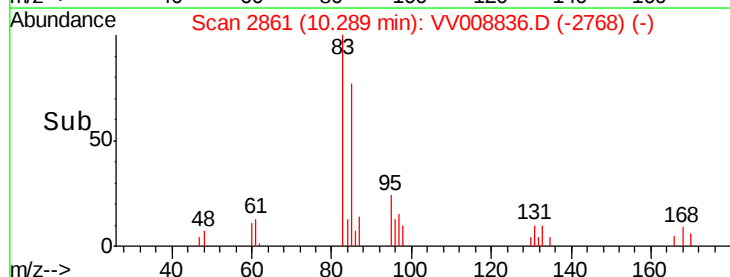
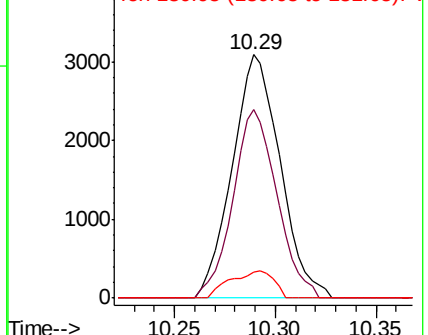
131 10.5 9.6 14.4

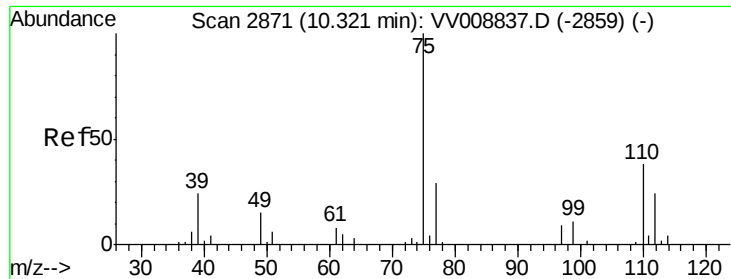


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

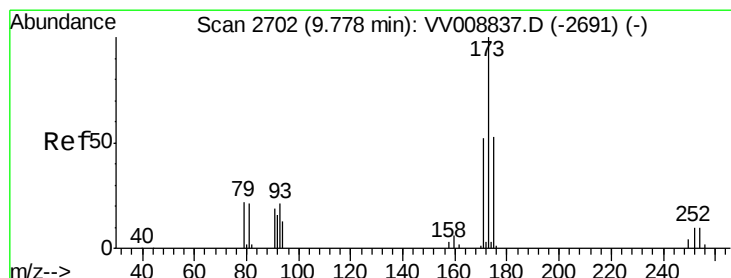
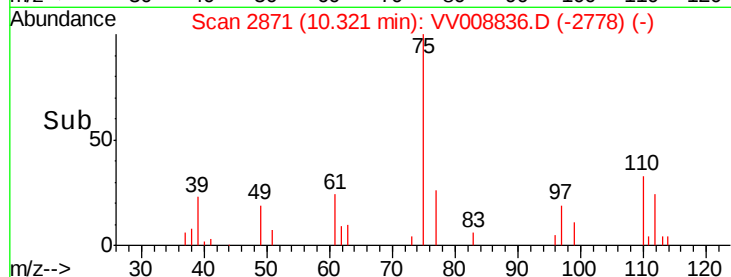
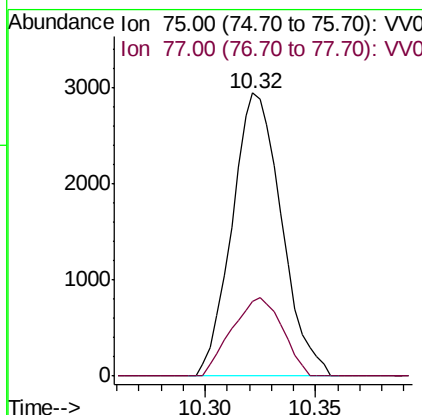
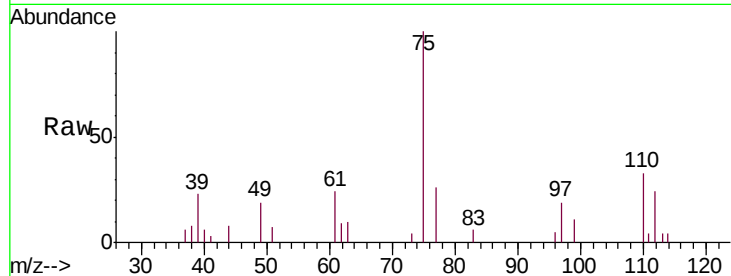




#59
 1,2,3-Trichloropropane
 Concen: 0.976 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

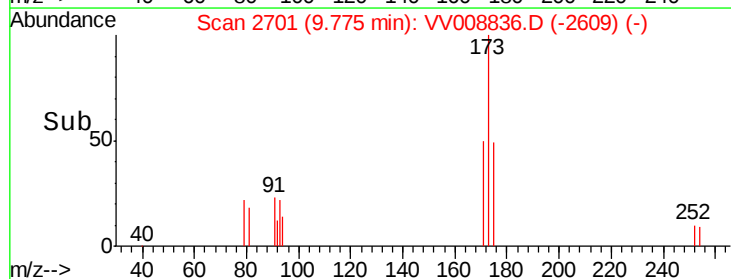
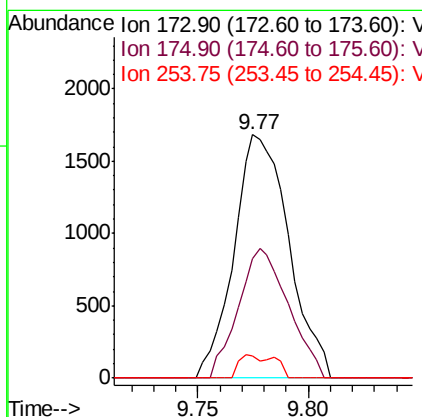
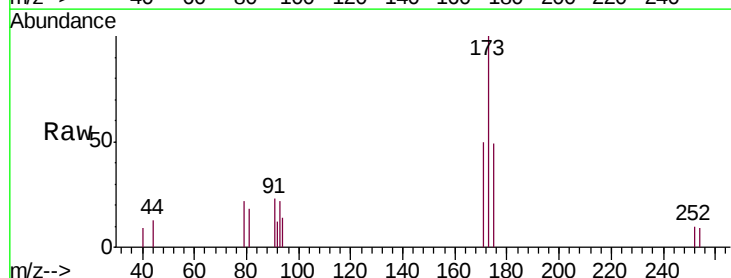
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00165

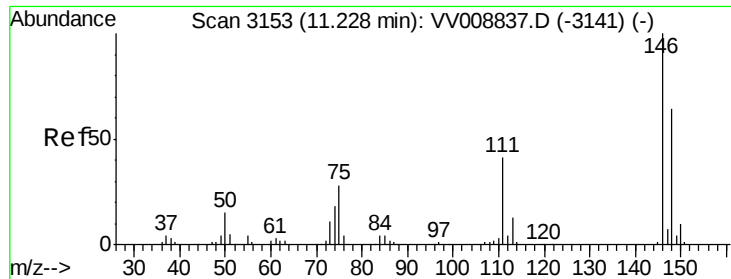
Tgt Ion: 75 Resp: 4589
 Ion Ratio Lower Upper
 75 100
 77 28.4 24.8 37.2



#61
 Bromoform
 Concen: 1.008 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

Tgt Ion: 173 Resp: 2908
 Ion Ratio Lower Upper
 173 100
 175 48.6 40.2 60.4
 254 6.1 7.0 10.6#





#62

1,3-Dichlorobenzene

Concen: 0.992 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleID :

VSTD00165

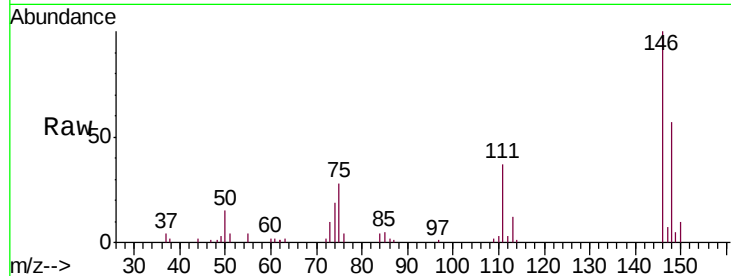
Tgt Ion:146 Resp: 16957

Ion Ratio Lower Upper

146 100

111 37.1 28.5 52.9

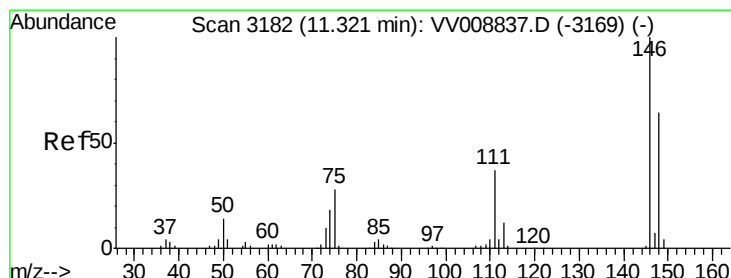
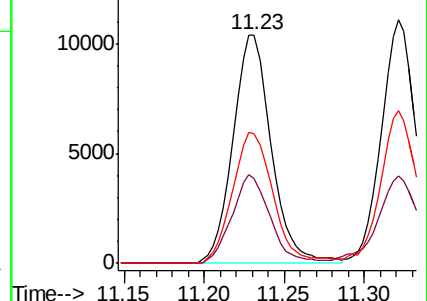
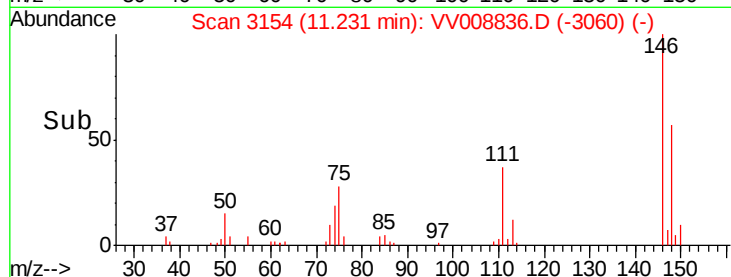
148 56.9 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 1.039 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

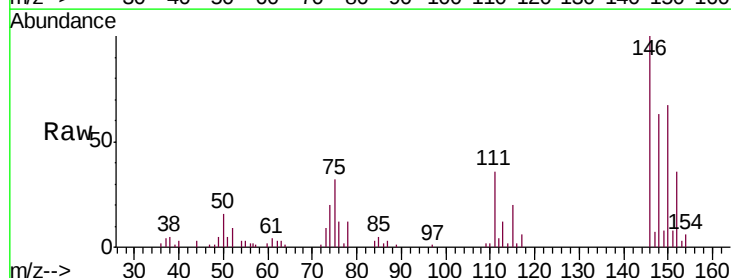
Tgt Ion:146 Resp: 17705

Ion Ratio Lower Upper

146 100

111 35.7 26.2 48.8

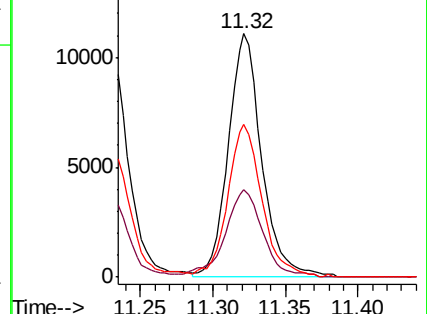
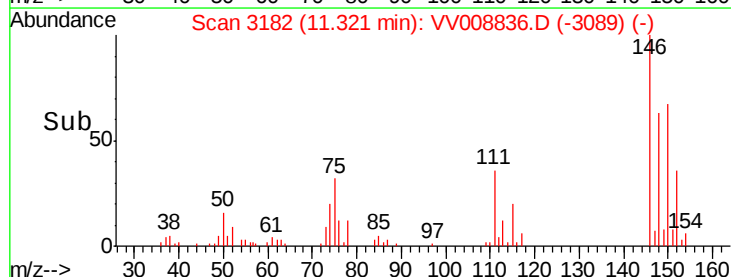
148 62.5 44.7 82.9

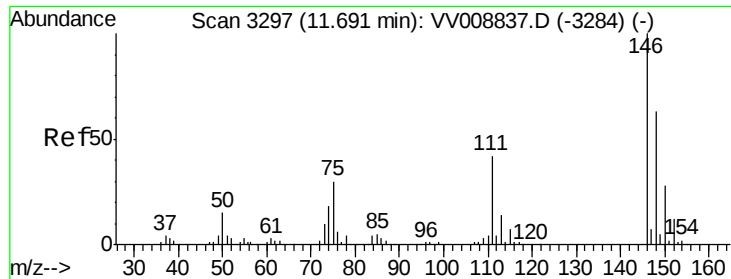


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

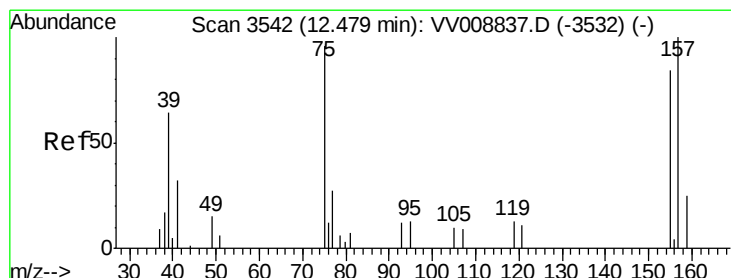
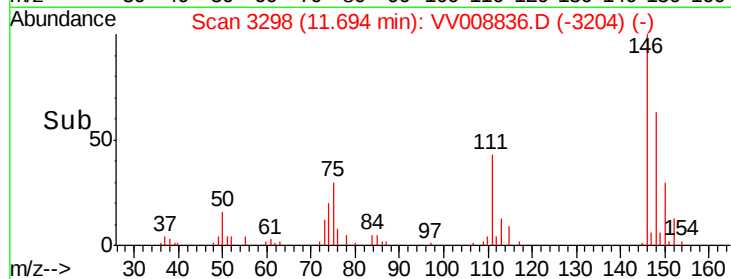
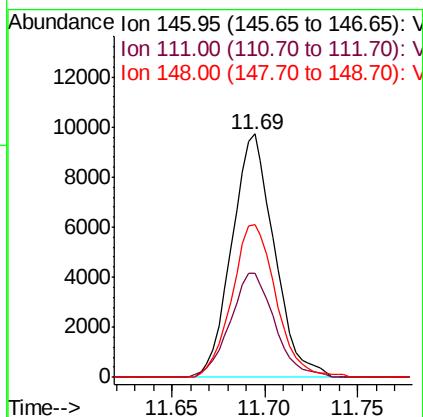
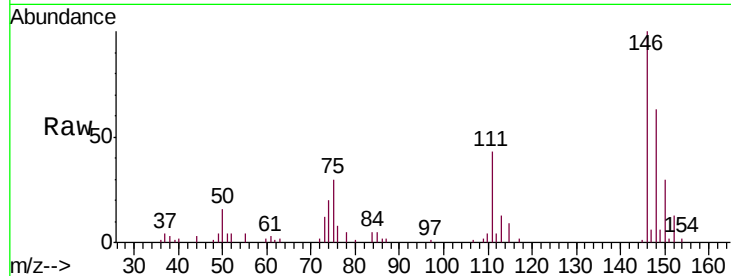




#65
 1,2-Dichlorobenzene
 Concen: 0.956 ug/L
 RT: 11.69 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

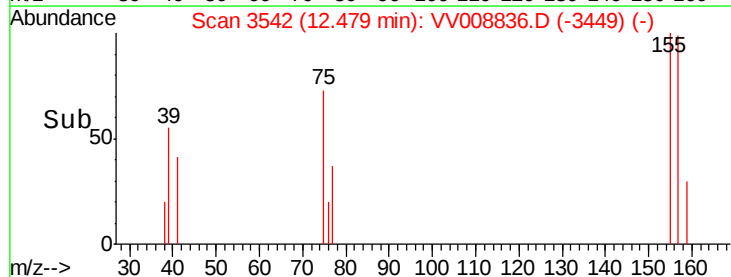
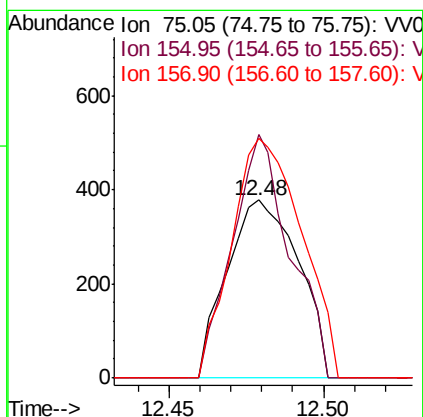
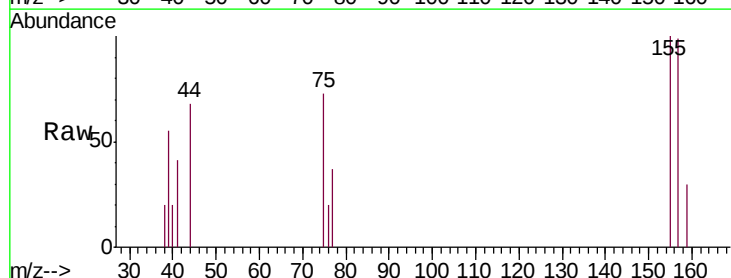
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00165

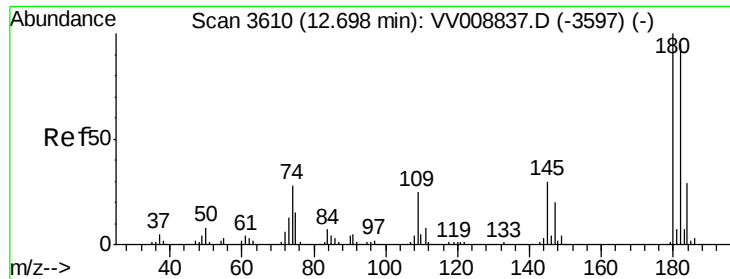
Tgt Ion: 146 Resp: 15464
 Ion Ratio Lower Upper
 146 100
 111 42.7 33.8 50.6
 148 62.6 50.0 75.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.762 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

Tgt Ion: 75 Resp: 608
 Ion Ratio Lower Upper
 75 100
 155 136.8 70.2 105.4#
 157 134.9 83.4 125.2#

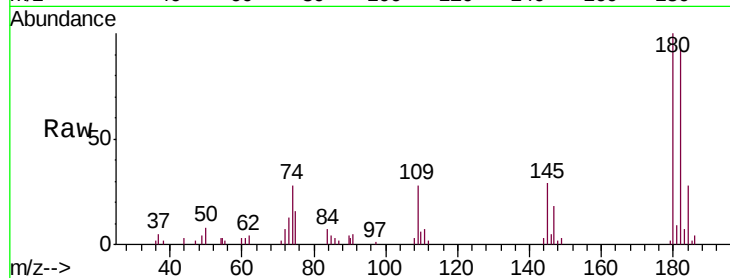




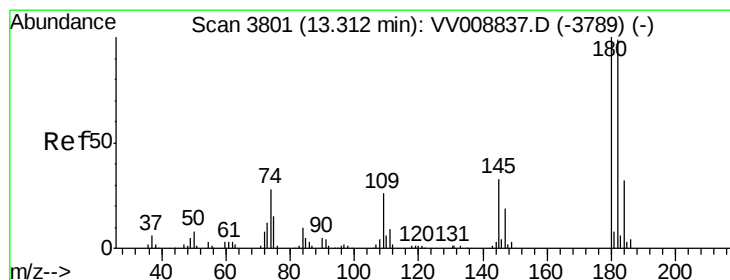
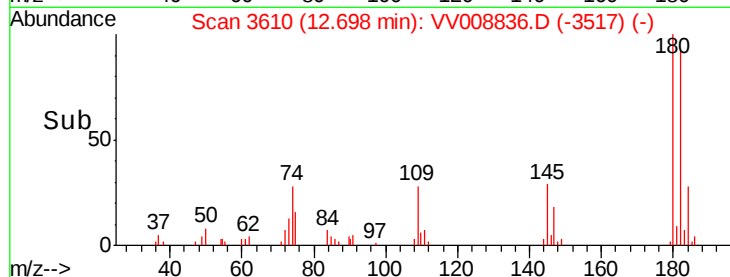
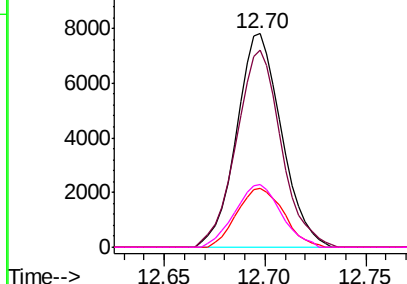
#67
 1,3,5-Trichlorobenzene
 Concen: 0.969 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00165

Tgt Ion:180 Resp: 12173
 Ion Ratio Lower Upper
 180 100
 182 92.1 76.5 114.7
 184 28.8 24.3 36.5
 145 30.2 25.2 37.8

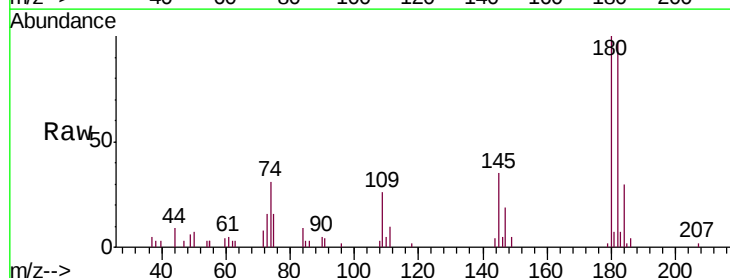


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

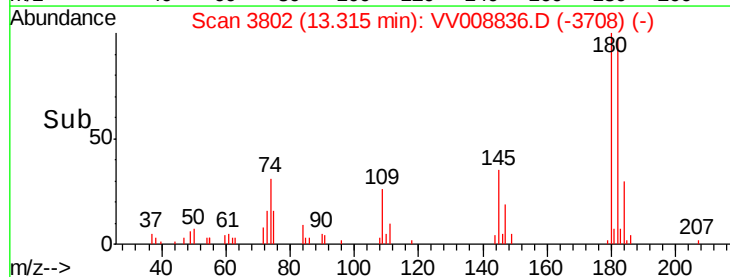
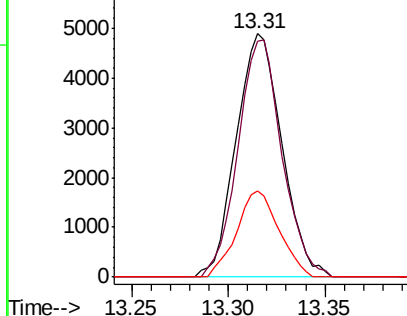


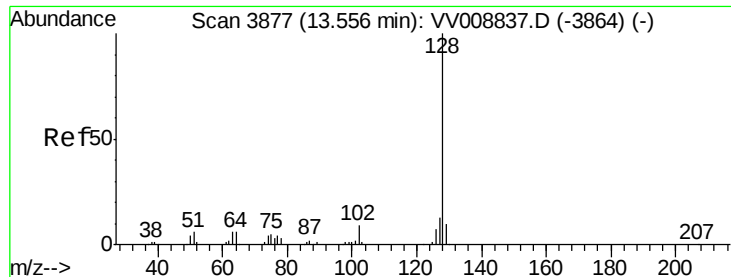
#68
 1,2,4-trichlorobenzene
 Concen: 0.865 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV008836.D
 Acq: 05 Dec 2018 10:33

Tgt Ion:180 Resp: 8039
 Ion Ratio Lower Upper
 180 100
 182 93.9 76.2 114.4
 145 32.9 26.2 39.4



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 0.765 ug/L

RT: 13.56 min Scan# 3878

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

Instrument :

MSVOA_V

ClientSampleId :

VSTD00165

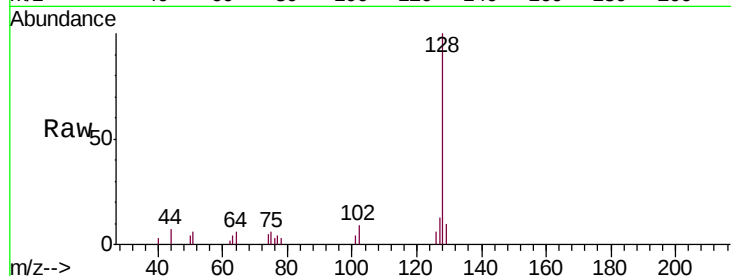
Tgt Ion:128 Resp: 10444

Ion Ratio Lower Upper

128 100

129 9.7 8.6 12.8

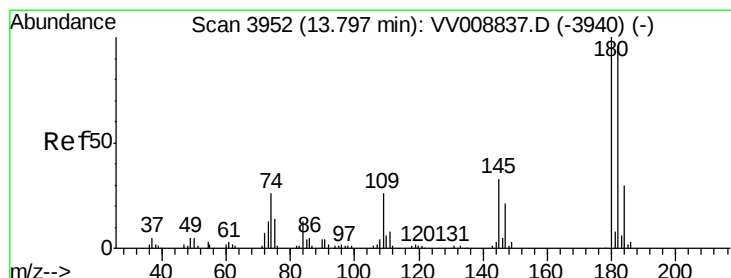
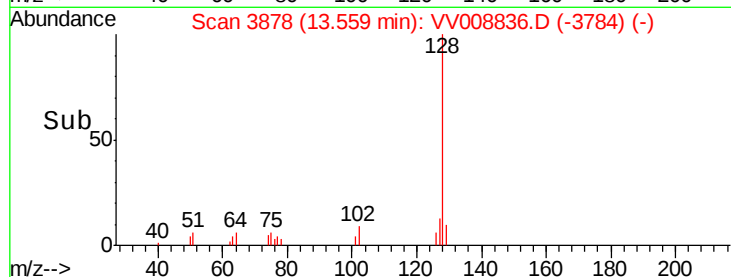
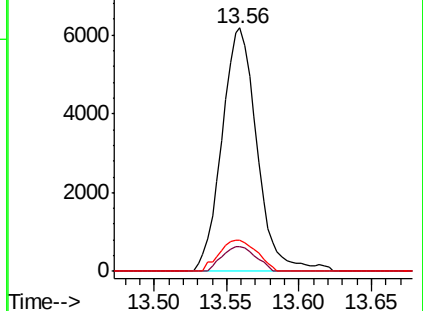
127 13.6 10.6 15.8



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: 0.903 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV008836.D

Acq: 05 Dec 2018 10:33

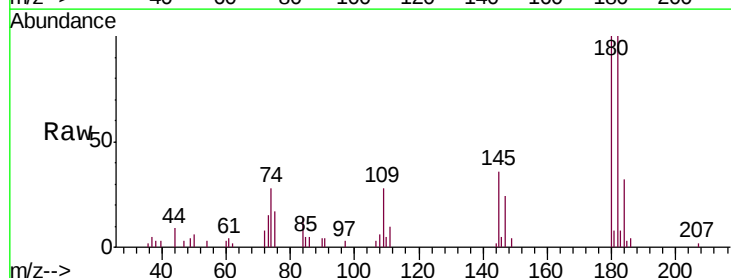
Tgt Ion:180 Resp: 7875

Ion Ratio Lower Upper

180 100

182 96.4 77.8 116.8

145 33.2 26.6 40.0



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

