

Data File : VV008852.D
Acq On : 05 Dec 2018 20:23
Operator : SY/MD
Sample : VSTDCCC005EC
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00576

Quant Time: Dec 06 05:00:38 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR120518WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 06 04:51:41 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	110328	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	104578	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	51135	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	26763	4.55	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.00%
7) Chloroethane-d5	1.59	69	20249	4.66	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.20%
11) 1,1-Dichloroethene-d2	2.14	63	54174	4.78	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.60%
20) 2-Butanone-d5	3.96	46	73782	50.78	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.56%
24) Chloroform-d	4.41	84	66502	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.40%
26) 1,2-Dichloroethane-d4	5.09	65	32321	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.00%
32) Benzene-d6	5.10	84	129237	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.12	67	38652	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.20%
41) Toluene-d8	7.36	98	122782	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
43) trans-1,3-Dichloropropene-	7.67	79	13583	4.48	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.60%
46) 2-Hexanone-d5	8.14	63	58732	50.87	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	101.74%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	25628	4.77	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.40%
64) 1,2-Dichlorobenzene-d4	11.68	152	45574	4.84	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.80%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	51489	4.912	ug/L 98
3) Chloromethane	1.25	50	34455	4.962	ug/L 98
5) Vinyl chloride	1.33	62	35458	5.011	ug/L 98
6) Bromomethane	1.54	94	15578	3.756	ug/L 98
8) Chloroethane	1.60	64	18746	4.716	ug/L 99
9) Trichlorofluoromethane	1.77	101	58417	5.123	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	31889	5.140	ug/L 98
12) 1,1-Dichloroethene	2.14	96	27536	5.094	ug/L 97
13) Acetone	2.21	43	38248	47.285	ug/L 91
14) Carbon disulfide	2.32	76	79734	4.901	ug/L 98
15) Methyl Acetate	2.47	43	10694	5.985	ug/L 92
16) Methylene chloride	2.54	84	28908	4.952	ug/L 93
17) Methyl tert-butyl Ether	2.81	73	66638	5.021	ug/L 98
18) trans-1,2-Dichloroethene	2.79	96	29492	4.992	ug/L 92
19) 1,1-Dichloroethane	3.23	63	63637	4.928	ug/L 97
21) 2-Butanone	4.05	43	75936	49.989	ug/L 98
22) cis-1,2-Dichloroethene	3.97	96	40332	4.986	ug/L 99

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Quant Title : TRACE VOA SOM01.0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	17584	5.139	ug/L	96
25) Chloroform	4.43	83	69098	4.936	ug/L	98
27) 1,2-Dichloroethane	5.19	62	40908	5.121	ug/L	99
29) 1,1,1-Trichloroethane	4.66	97	60395	4.876	ug/L	98
30) Cyclohexane	4.73	56	58599	4.923	ug/L	100
31) Carbon tetrachloride	4.88	117	54377	4.878	ug/L	99
33) Benzene	5.15	78	146985	4.943	ug/L	100
34) Trichloroethene	5.96	95	42238	4.884	ug/L	98
35) Methylcyclohexane	6.18	83	64433	4.710	ug/L	99
37) 1,2-Dichloropropane	6.23	63	36091	4.953	ug/L	99
38) Bromodichloromethane	6.56	83	42727	4.764	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	48475	4.747	ug/L	97
40) 4-Methyl-2-pentanone	7.28	43	184632	49.948	ug/L	99
42) Toluene	7.43	91	159601	4.973	ug/L	98
44) trans-1,3-Dichloropropene	7.70	75	38057	4.804	ug/L	95
45) 1,1,2-Trichloroethane	7.89	97	25691	5.022	ug/L	97
47) Tetrachloroethene	8.02	164	34446	4.964	ug/L	99
48) 2-Hexanone	8.19	43	127717	49.013	ug/L	100
49) Dibromochloromethane	8.29	129	29715	4.966	ug/L	99
50) 1,2-Dibromoethane	8.40	107	23686	4.941	ug/L	97
51) Chlorobenzene	8.93	112	104419	4.944	ug/L	98
52) Ethylbenzene	9.06	91	172391	4.920	ug/L	98
53) m,p-xylene	9.18	106	66816	4.991	ug/L	97
54) o-xylene	9.59	106	63366	4.963	ug/L	99
55) Styrene	9.60	104	106687	5.051	ug/L	99
56) Isopropylbenzene	9.98	105	174575	5.054	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	26751	5.181	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	21156	4.864	ug/L	97
61) Bromoform	9.78	173	14764	4.853	ug/L	95
62) 1,3-Dichlorobenzene	11.23	146	80237	4.853	ug/L	100
63) 1,4-Dichlorobenzene	11.32	146	81766	4.838	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	75854	4.967	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	3997	5.214	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	61268	4.978	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	44761	4.895	ug/L	97
69) Naphthalene	13.56	128	61813	4.656	ug/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	43106	5.037	ug/L	98

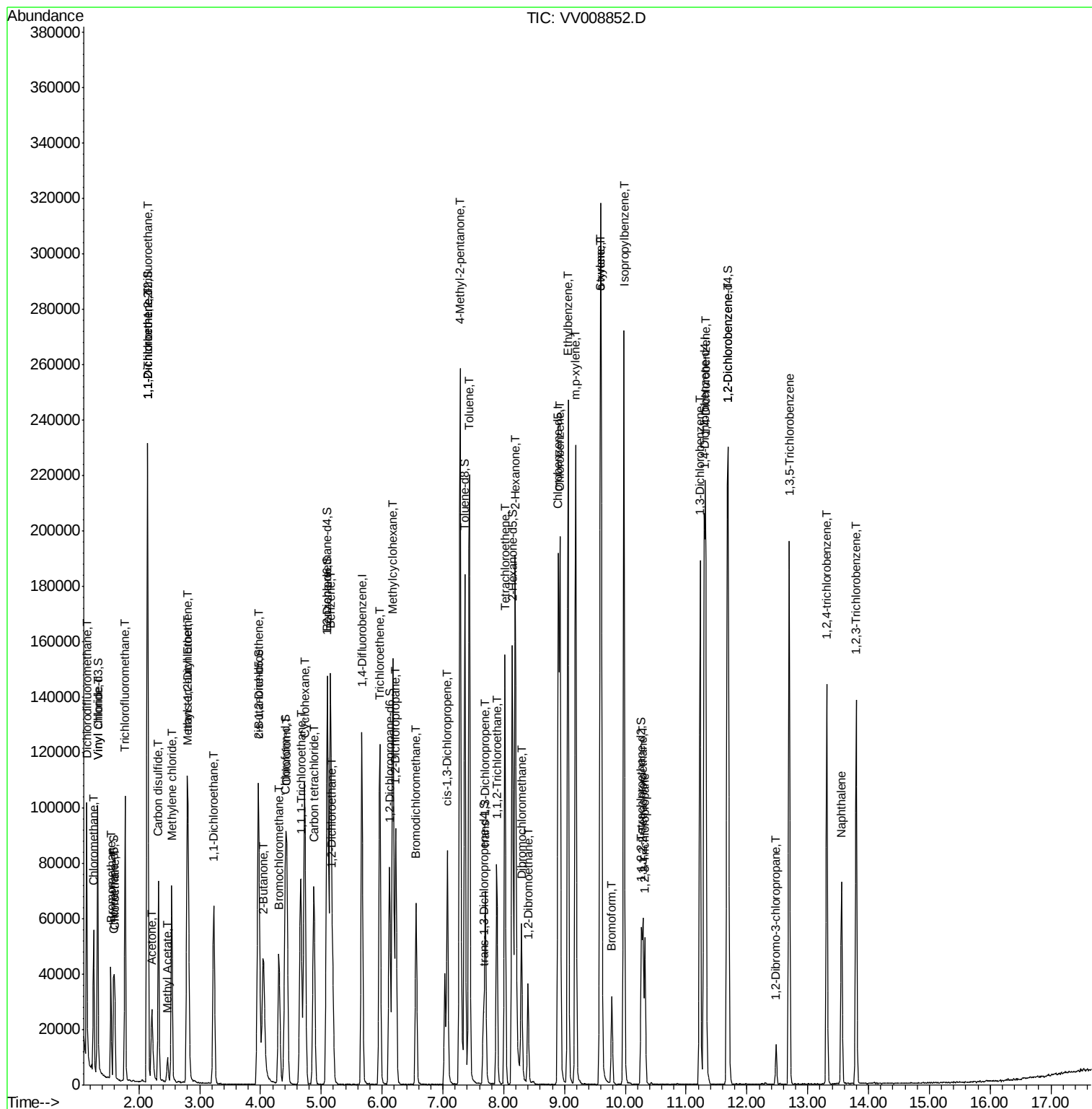
(#) = qualifier out of range (m) = manual integration (+) = signals summed

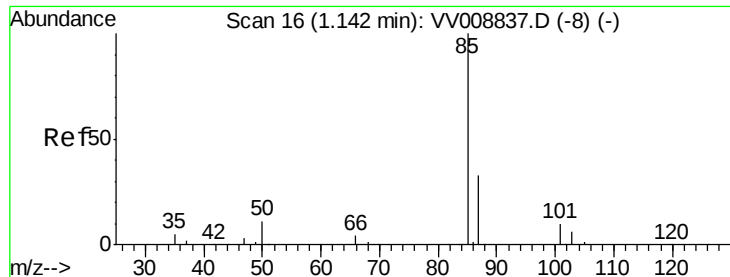
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#2

Dichlorodifluoromethane

Concen: 4.912 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Instrument :

MSVOA_V

ClientSampleId :

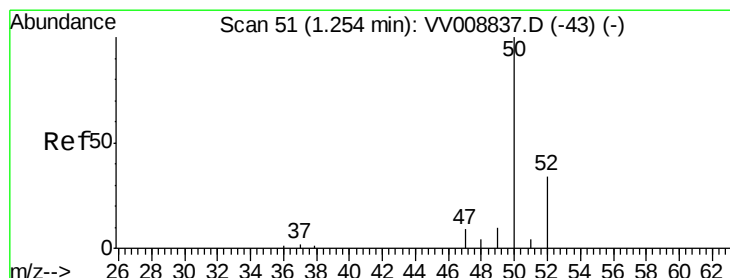
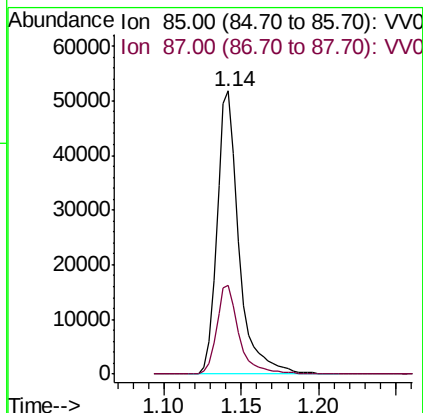
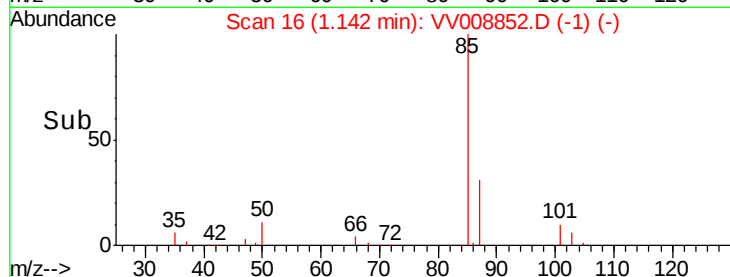
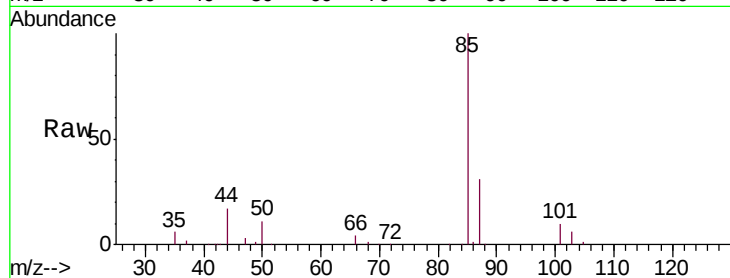
VSTD00576

Tgt Ion: 85 Resp: 51489

Ion Ratio Lower Upper

85 100

87 31.8 26.3 39.5



#3

Chloromethane

Concen: 4.962 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV008852.D

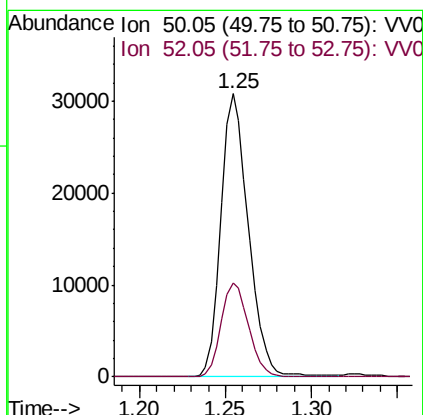
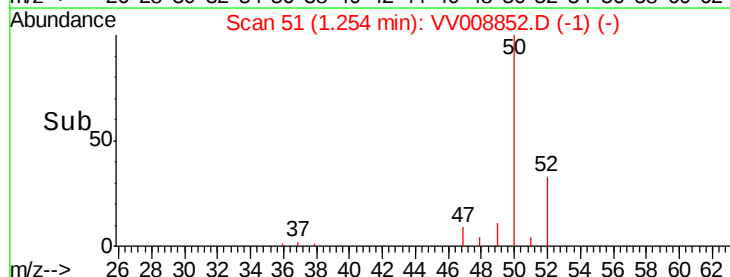
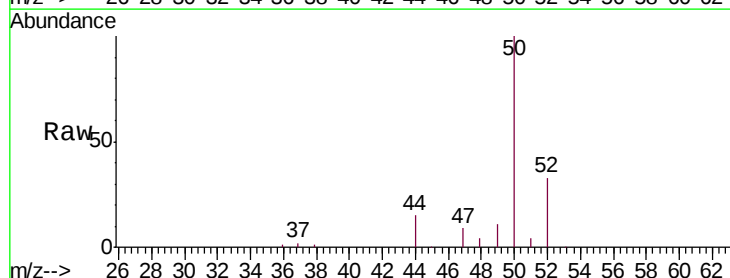
Acq: 05 Dec 2018 20:23

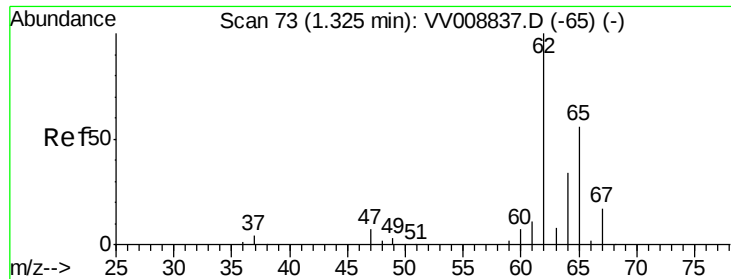
Tgt Ion: 50 Resp: 34455

Ion Ratio Lower Upper

50 100

52 33.1 23.9 44.5





#5

Vinyl chloride

Concen: 5.011 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Instrument :

MSVOA_V

ClientSampleId :

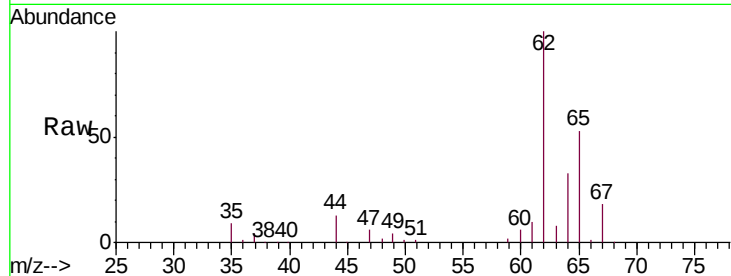
VSTD00576

Tgt Ion: 62 Resp: 35458

Ion Ratio Lower Upper

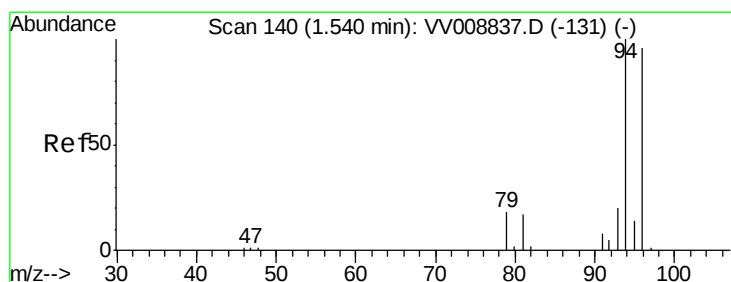
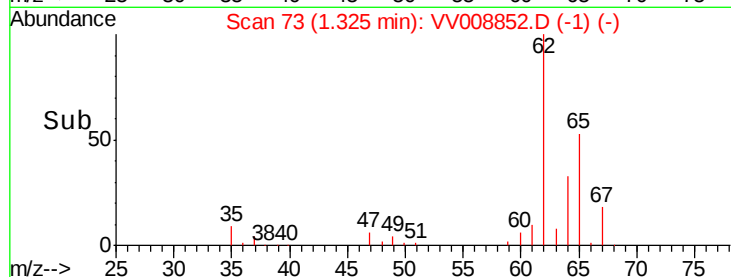
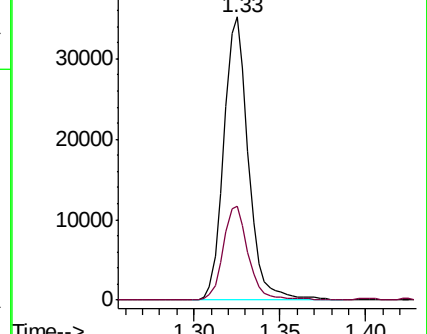
62 100

64 33.1 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 3.756 ug/L

RT: 1.54 min Scan# 140

Delta R.T. 0.00 min

Lab File: VV008852.D

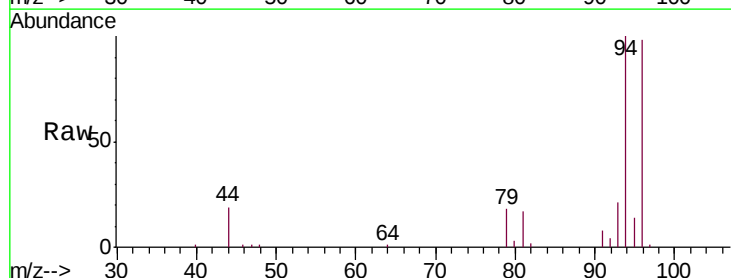
Acq: 05 Dec 2018 20:23

Tgt Ion: 94 Resp: 15578

Ion Ratio Lower Upper

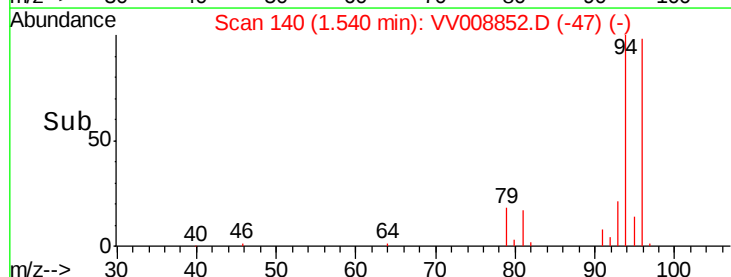
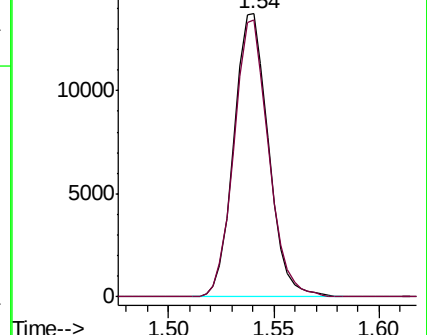
94 100

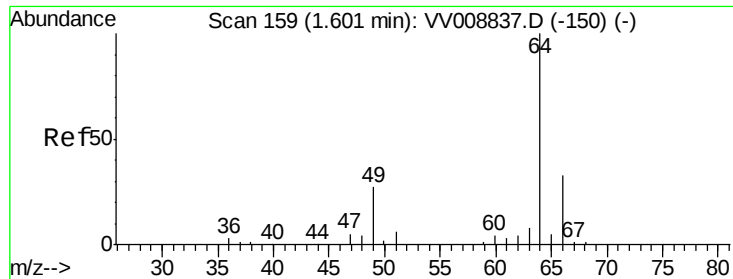
96 97.7 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

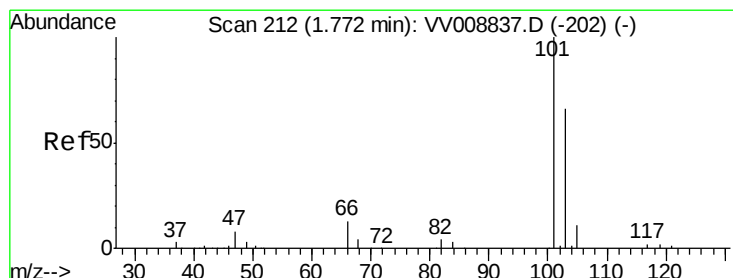
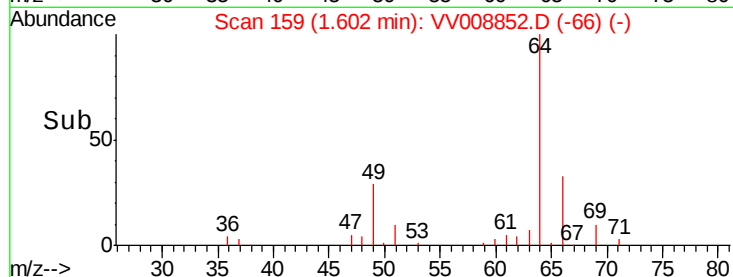
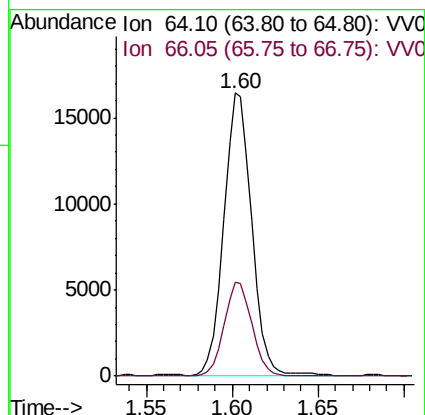
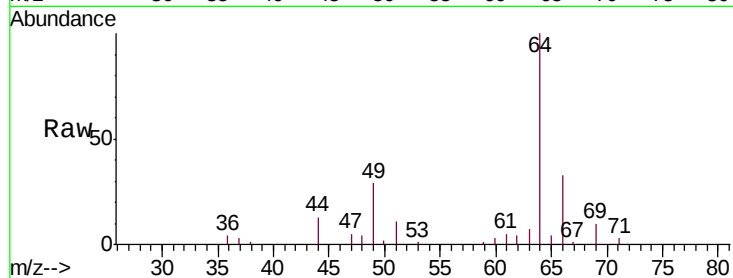




#8
Chloroethane
Concen: 4.716 ug/L
RT: 1.60 min Scan# 159
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

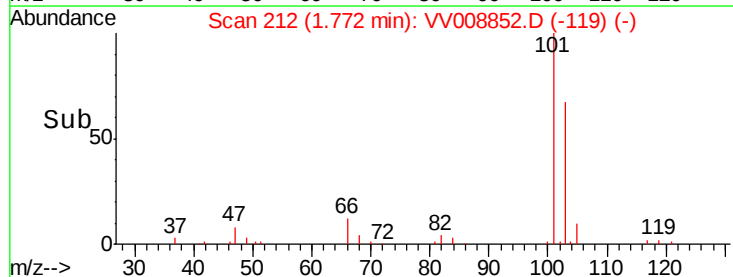
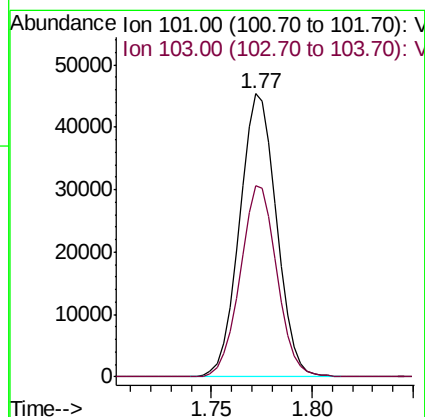
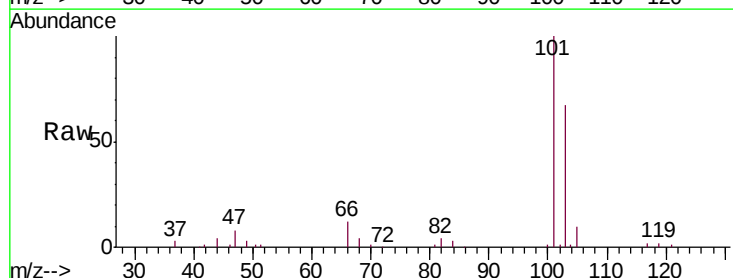
Instrument :
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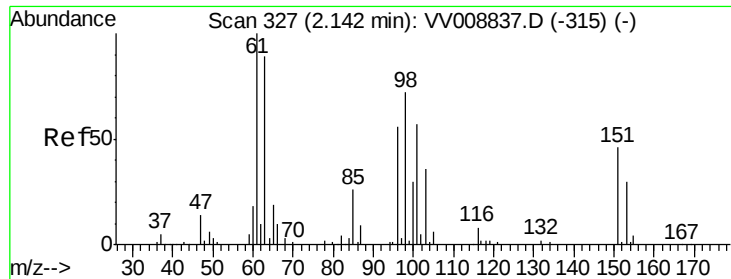
Tgt Ion: 64 Resp: 18746
Ion Ratio Lower Upper
64 100
66 33.1 23.4 43.6



#9
Trichlorofluoromethane
Concen: 5.123 ug/L
RT: 1.77 min Scan# 212
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Tgt Ion: 101 Resp: 58417
Ion Ratio Lower Upper
101 100
103 67.1 52.5 78.7





#10

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

Concen: 5.140 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00576

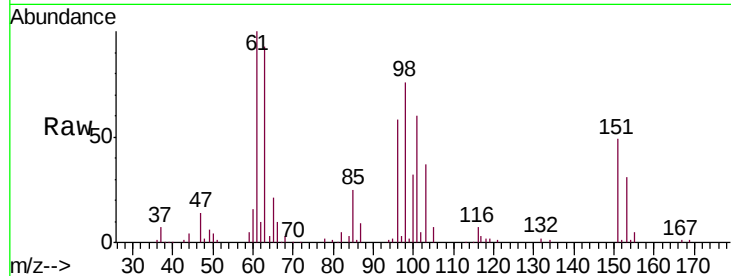
Tgt Ion:101 Resp: 31889

Ion Ratio Lower Upper

101 100

85 42.2 35.0 52.6

151 82.4 65.1 97.7



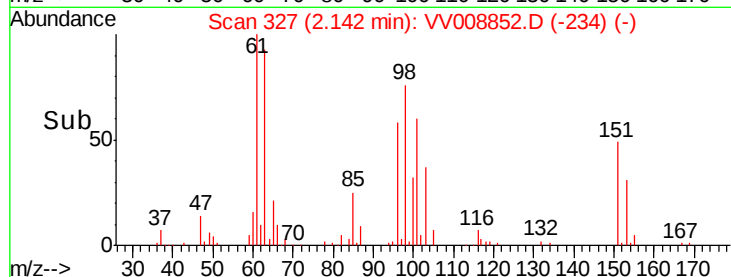
Abundance Ion 101.00 (100.70 to 101.70): VV008837.D (-315) (-)

Ion 85.00 (84.70 to 85.70): VV008837.D (-315) (-)

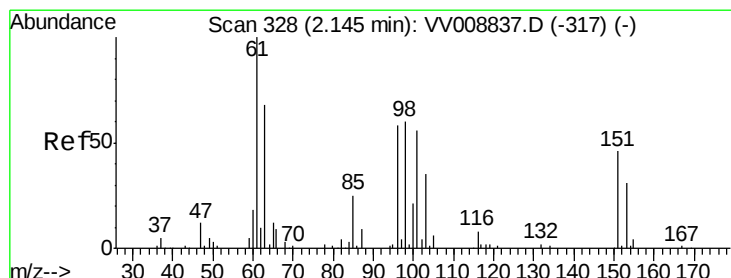
Ion 151.00 (150.70 to 151.70): VV008837.D (-315) (-)

2.14

2.10 2.15 2.20



Time-->



#12

1,1-Dichloroethene

Concen: 5.094 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

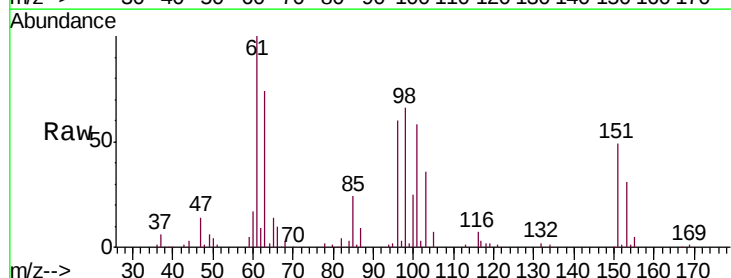
Tgt Ion: 96 Resp: 27536

Ion Ratio Lower Upper

96 100

61 167.4 120.8 224.4

63 124.5 85.0 158.0



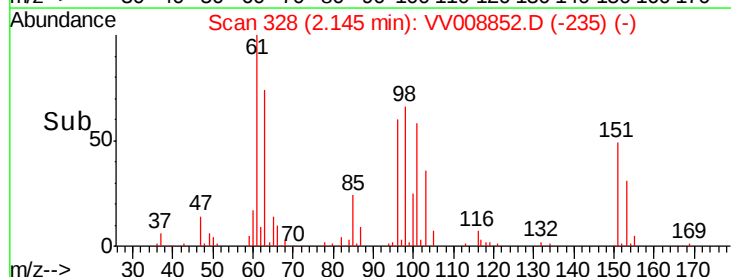
Abundance Ion 96.00 (95.70 to 96.70): VV008837.D (-317) (-)

Ion 61.05 (60.75 to 61.75): VV008837.D (-317) (-)

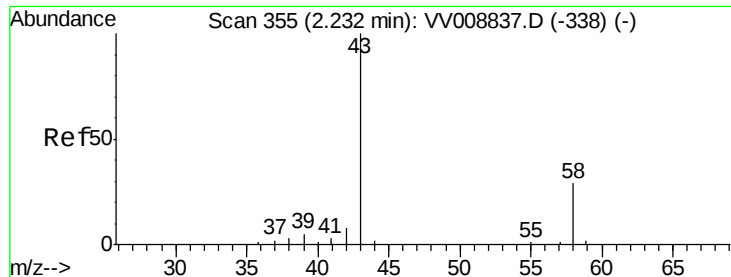
Ion 63.00 (62.70 to 63.70): VV008837.D (-317) (-)

2.14

2.10 2.15 2.20



Time-->



#13

Acetone

Concen: 47.285 ug/L

RT: 2.21 min Scan# 349

Delta R.T. -0.02 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

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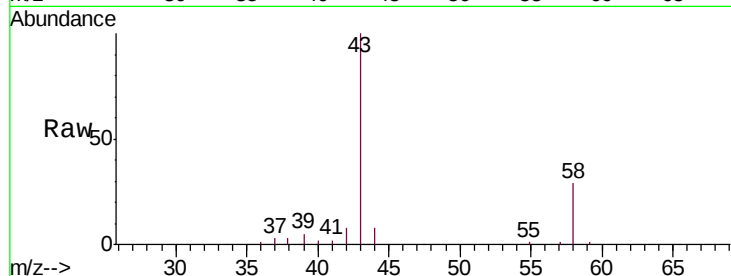
VSTD00576

Tgt Ion: 43 Resp: 38248

Ion Ratio Lower Upper

43 100

58 30.6 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) (-)

2.21

15000

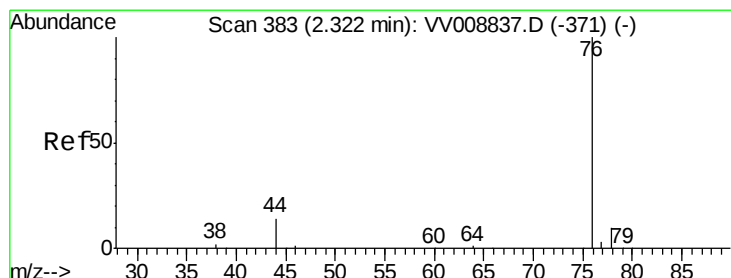
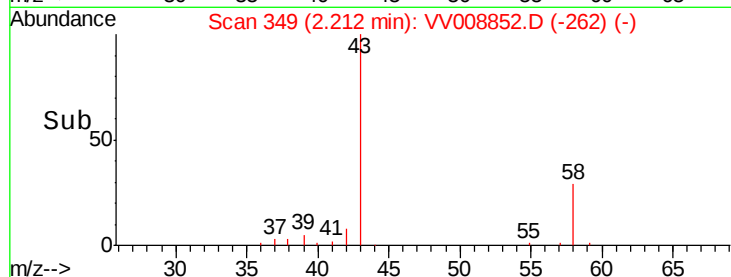
10000

5000

0

Time-->

2.20 2.30



#14

Carbon disulfide

Concen: 4.901 ug/L

RT: 2.32 min Scan# 383

Delta R.T. 0.00 min

Lab File: VV008852.D

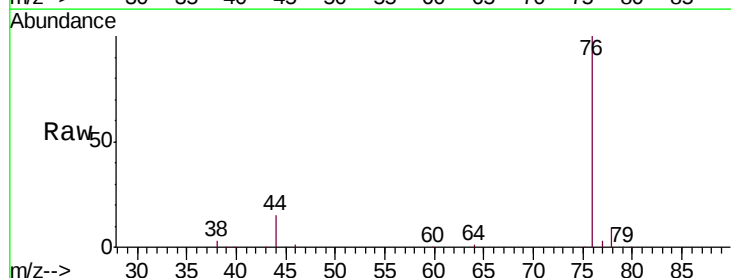
Acq: 05 Dec 2018 20:23

Tgt Ion: 76 Resp: 79734

Ion Ratio Lower Upper

76 100

78 9.1 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) (-)

2.32

60000

50000

40000

30000

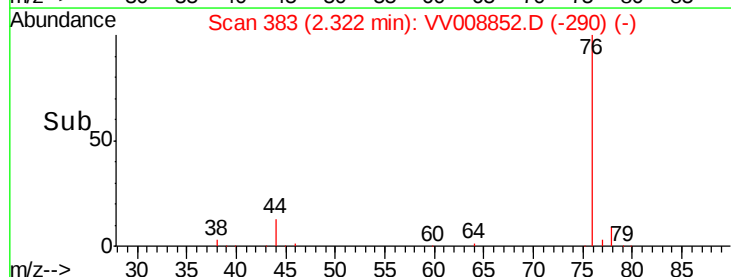
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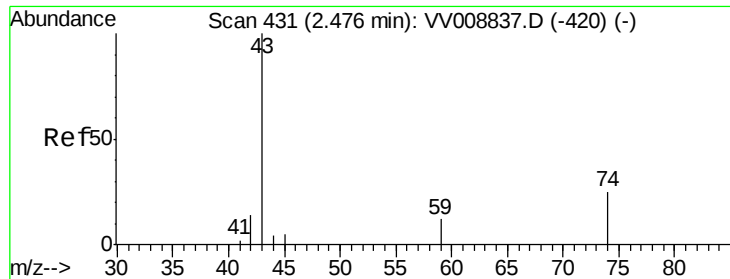
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Time-->

2.25 2.30 2.35 2.40

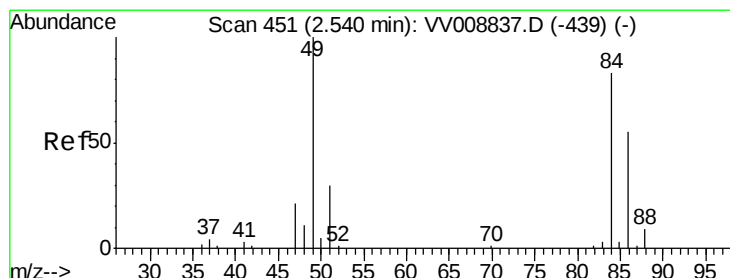
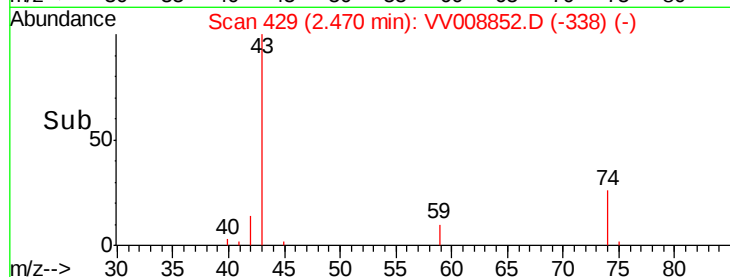
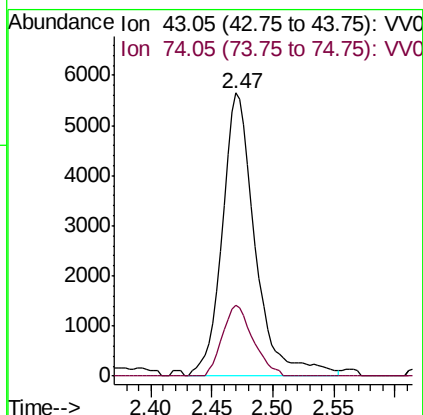
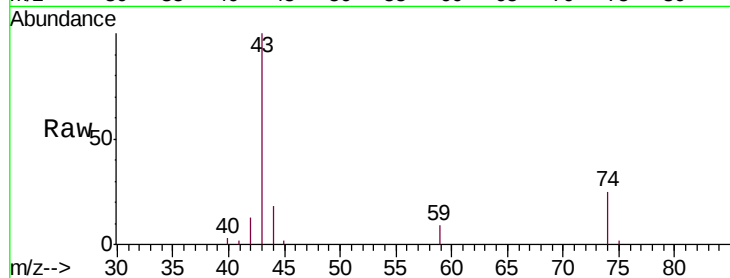




#15
Methyl Acetate
Concen: 5.985 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.01 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

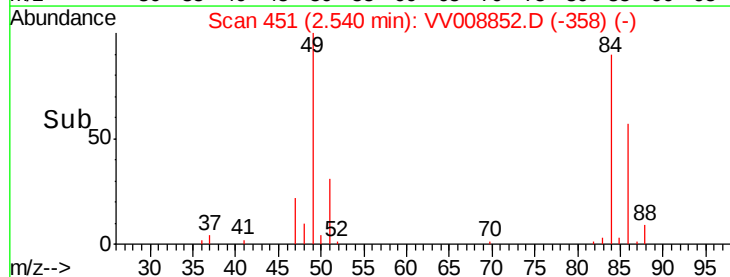
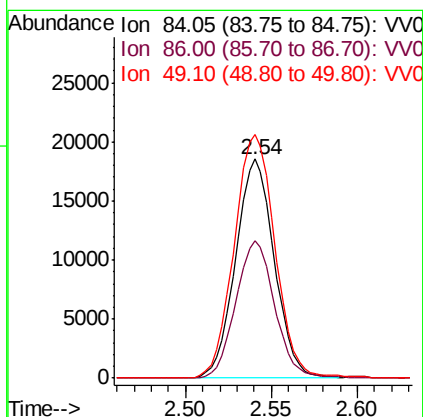
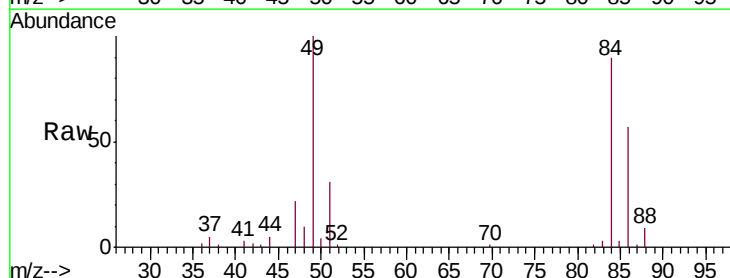
Instrument :
MSVOA_V
ClientSampleId :
VSTD00576

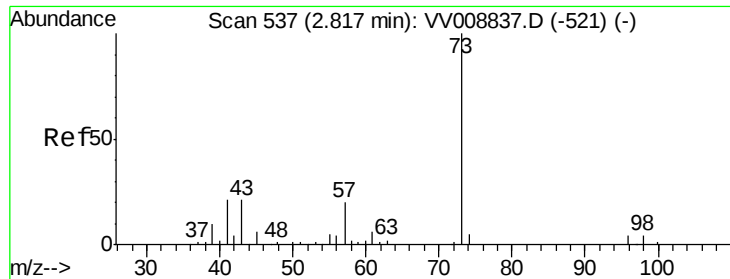
Tgt Ion: 43 Resp: 10694
Ion Ratio Lower Upper
43 100
74 23.2 21.8 32.6



#16
Methylene chloride
Concen: 4.952 ug/L
RT: 2.54 min Scan# 451
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Tgt Ion: 84 Resp: 28908
Ion Ratio Lower Upper
84 100
86 63.0 46.7 86.7
49 111.3 84.8 157.4

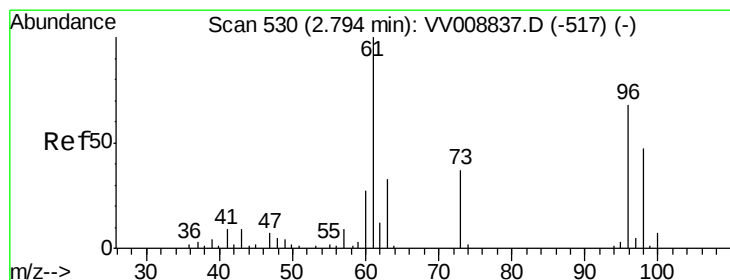
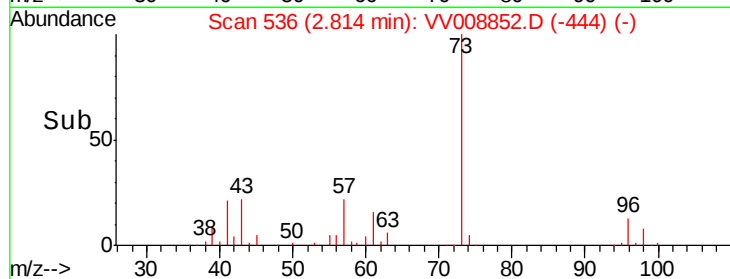
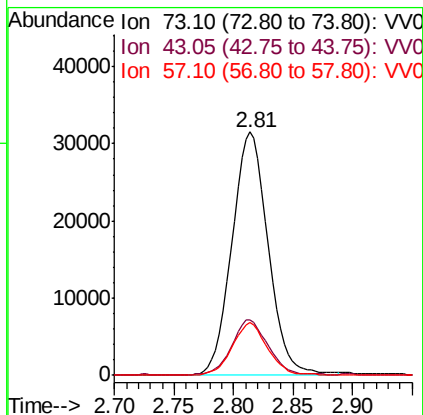
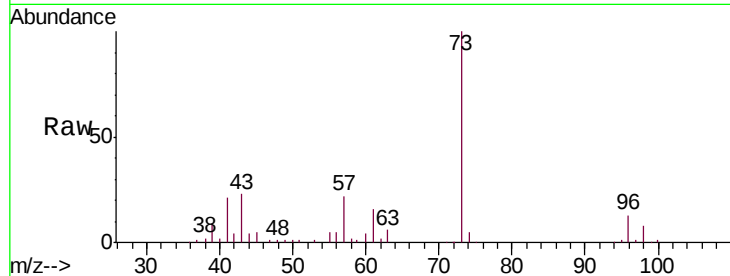




#17
Methyl tert-butyl Ether
Concen: 5.021 ug/L
RT: 2.81 min Scan# 536
Delta R.T. -0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

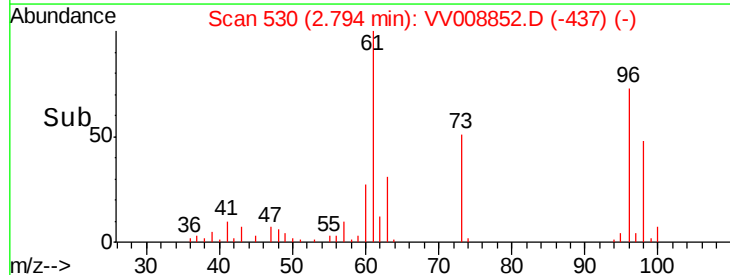
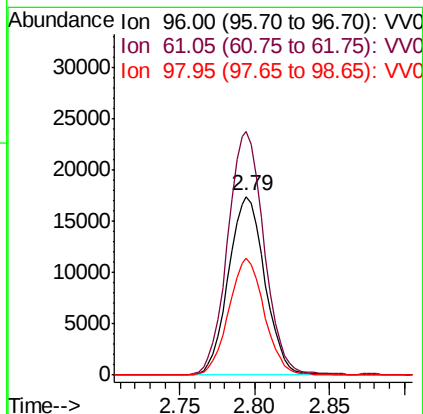
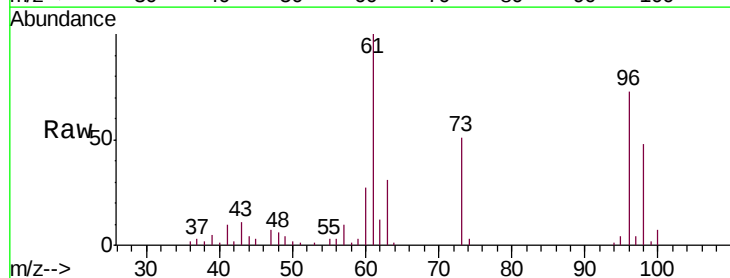
Instrument :
MSVOA_V
ClientSampleId :
VSTD00576

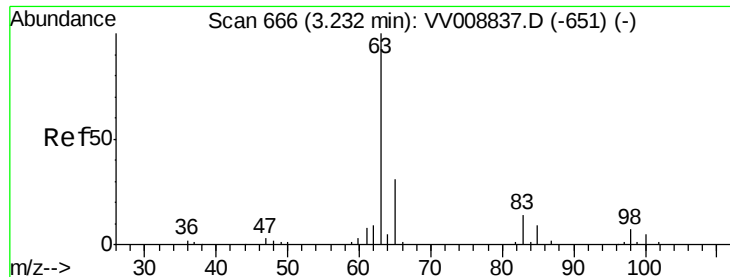
Tgt Ion: 73 Resp: 66638
Ion Ratio Lower Upper
73 100
43 23.1 17.3 25.9
57 21.0 16.8 25.2



#18
trans-1,2-Dichloroethene
Concen: 4.992 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Tgt Ion: 96 Resp: 29492
Ion Ratio Lower Upper
96 100
61 136.4 103.0 191.4
98 65.5 48.9 90.9

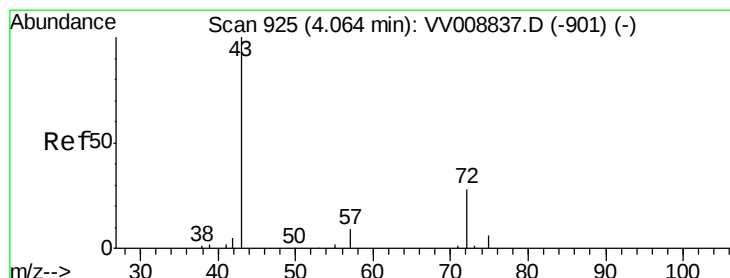
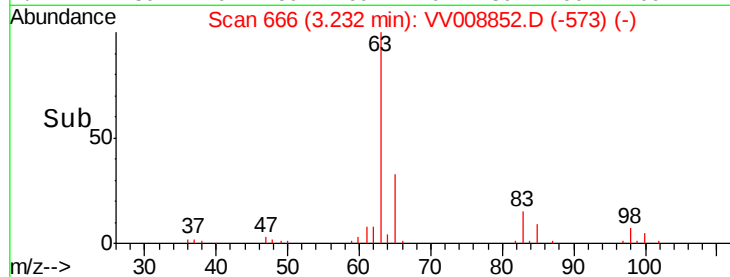
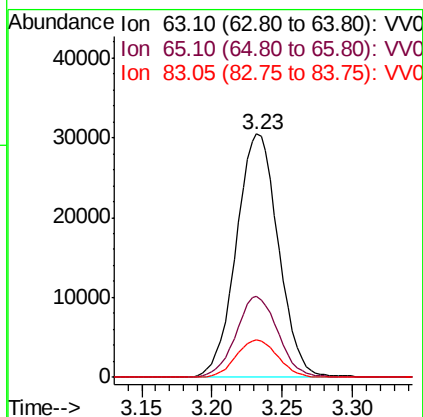
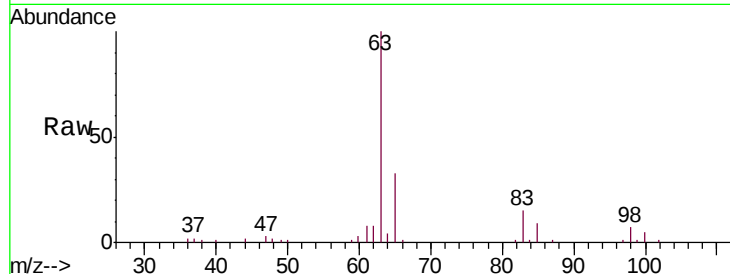




#19
 1,1-Dichloroethane
 Concen: 4.928 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV008852.D
 Acq: 05 Dec 2018 20:23

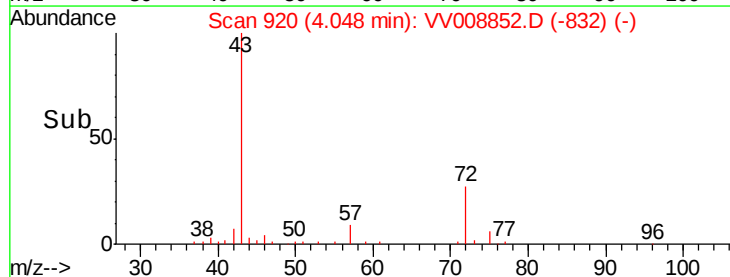
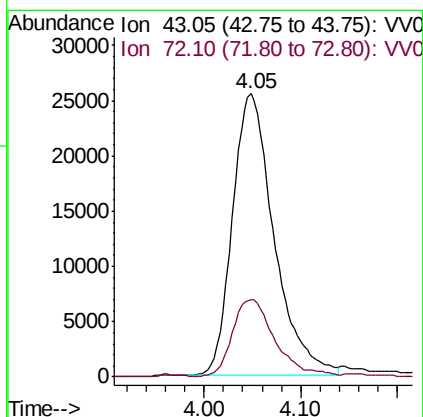
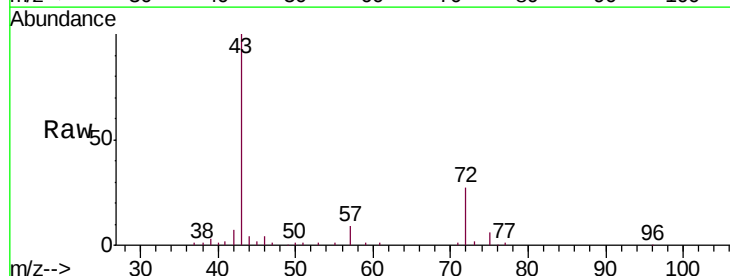
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00576

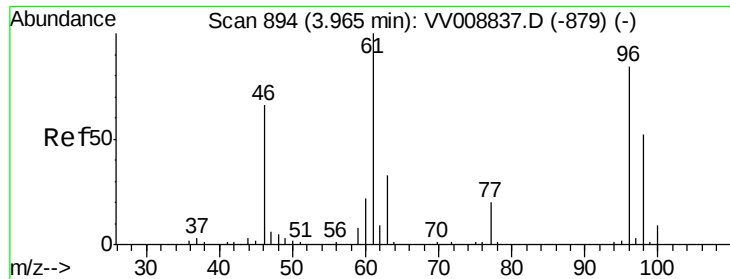
Tgt Ion: 63 Resp: 63637
 Ion Ratio Lower Upper
 63 100
 65 33.1 22.0 40.8
 83 15.2 10.1 18.7



#21
 2-Butanone
 Concen: 49.989 ug/L
 RT: 4.05 min Scan# 920
 Delta R.T. -0.02 min
 Lab File: VV008852.D
 Acq: 05 Dec 2018 20:23

Tgt Ion: 43 Resp: 75936
 Ion Ratio Lower Upper
 43 100
 72 28.4 13.7 41.1



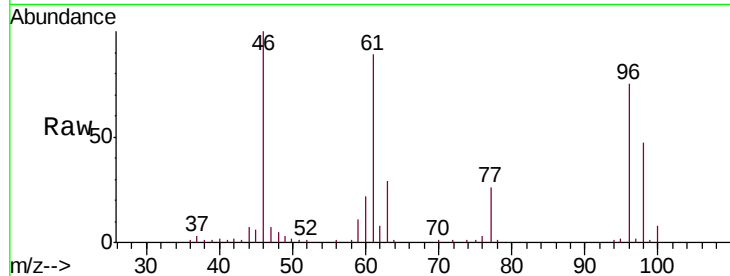


#22

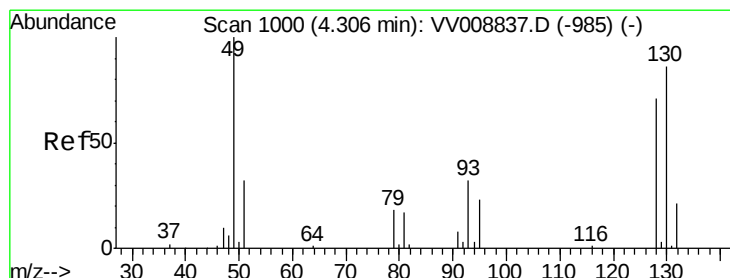
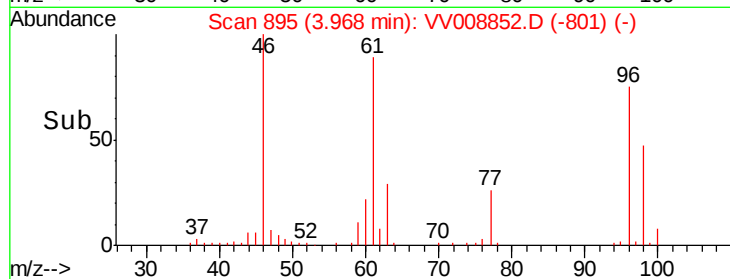
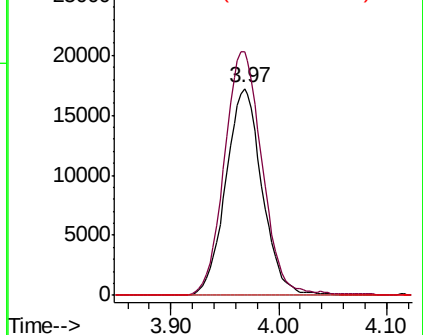
cis-1,2-Dichloroethene
Concen: 4.986 ug/L
RT: 3.97 min Scan# 895
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Instrument :
MSVOA_V
ClientSampleID :
VSTD00576

Tgt Ion: 96 Resp: 40332
Ion Ratio Lower Upper
96 100
61 117.9 83.2 154.6
68 0.0 0.0 0.0



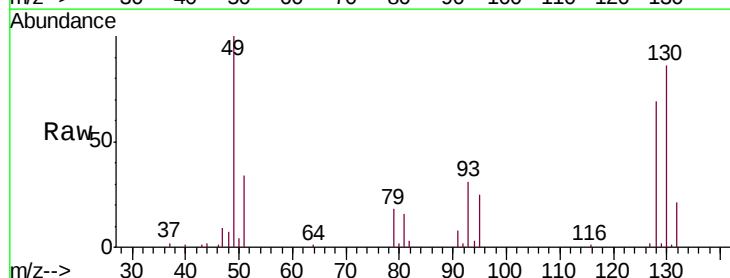
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



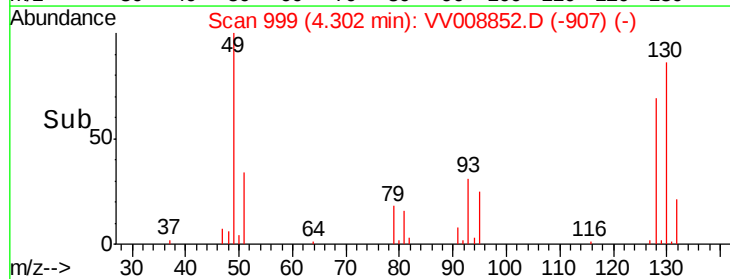
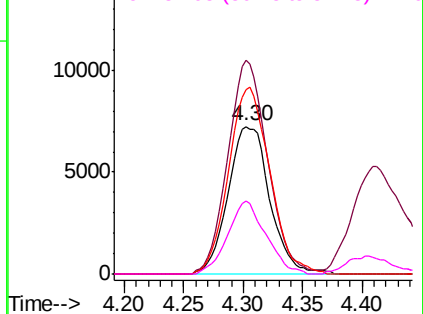
#23

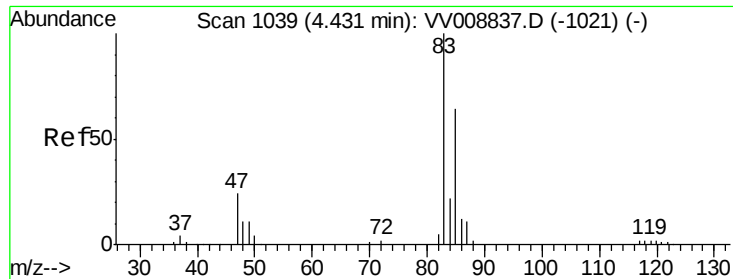
Bromochloromethane
Concen: 5.139 ug/L
RT: 4.30 min Scan# 999
Delta R.T. -0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Tgt Ion: 128 Resp: 17584
Ion Ratio Lower Upper
128 100
49 144.7 98.1 182.3
130 124.8 84.2 156.4
51 49.4 35.4 53.2



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0

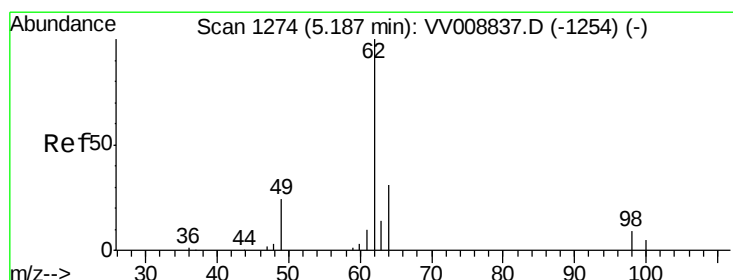
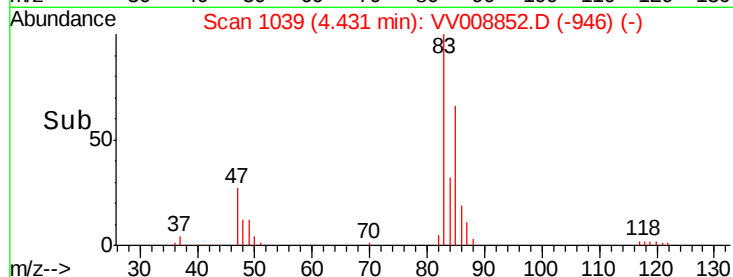
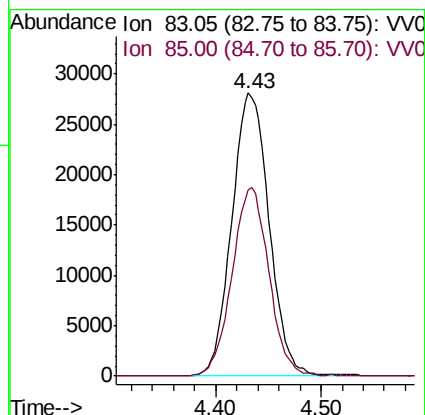
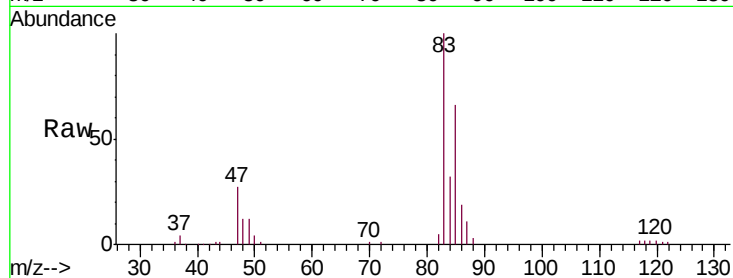




#25
Chloroform
Concen: 4.936 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

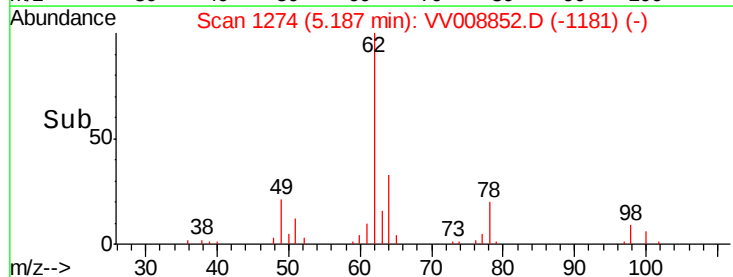
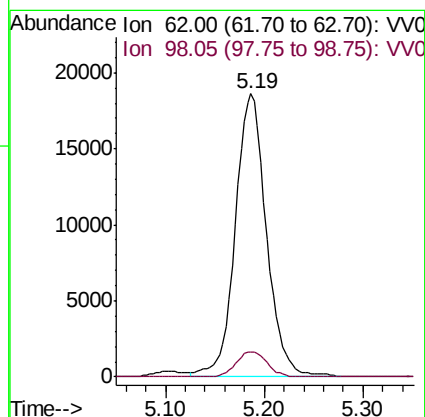
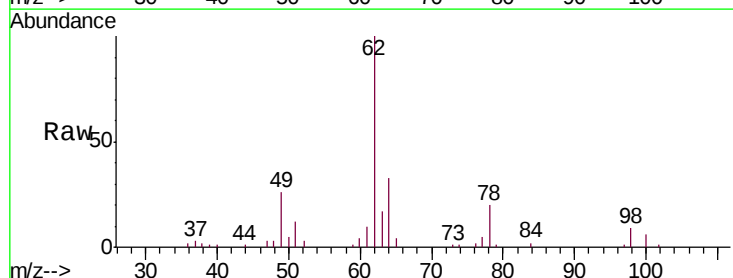
Instrument :
MSVOA_V
ClientSampleId :
VSTD00576

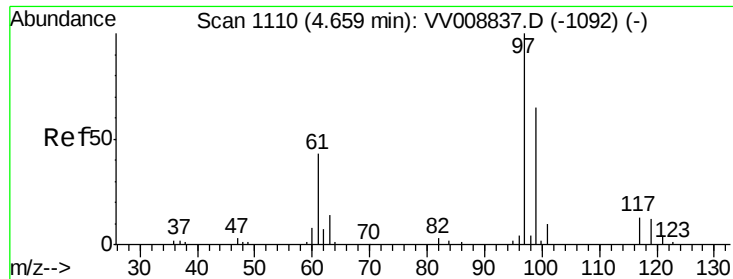
Tgt Ion: 83 Resp: 69098
Ion Ratio Lower Upper
83 100
85 65.7 44.9 83.5



#27
1,2-Dichloroethane
Concen: 5.121 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Tgt Ion: 62 Resp: 40908
Ion Ratio Lower Upper
62 100
98 8.9 7.3 10.9

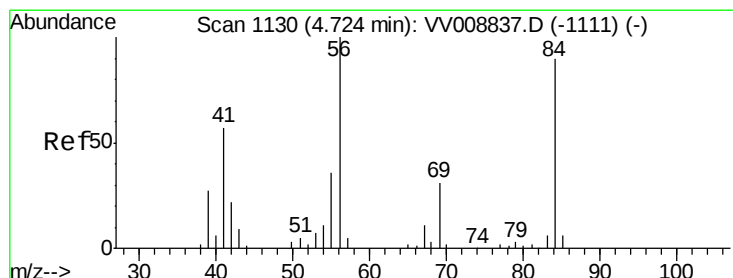
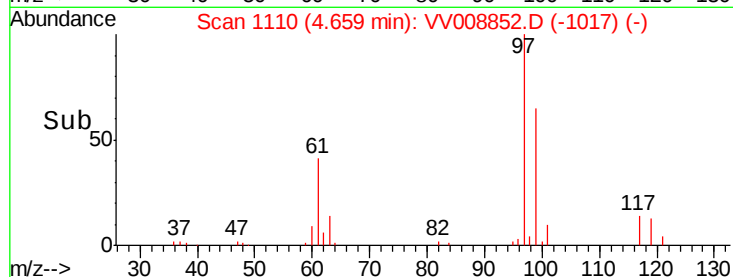
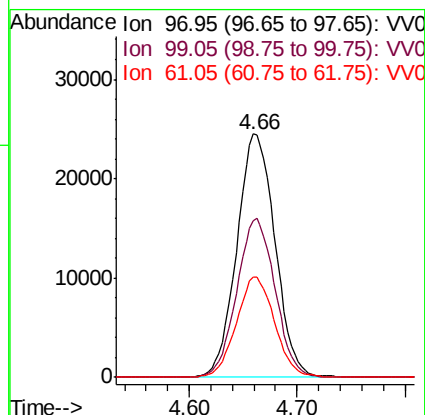
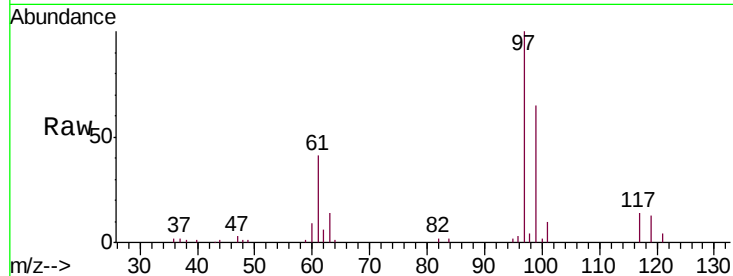




#29
 1,1,1-Trichloroethane
 Concen: 4.876 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. 0.00 min
 Lab File: VV008852.D
 Acq: 05 Dec 2018 20:23

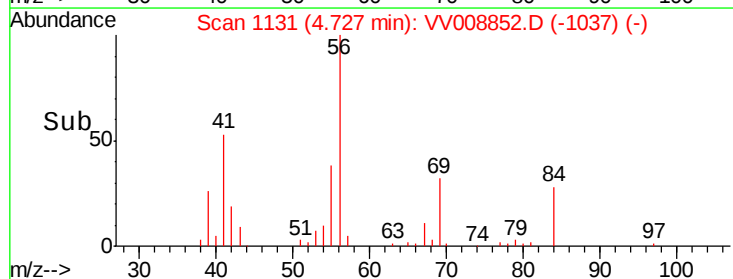
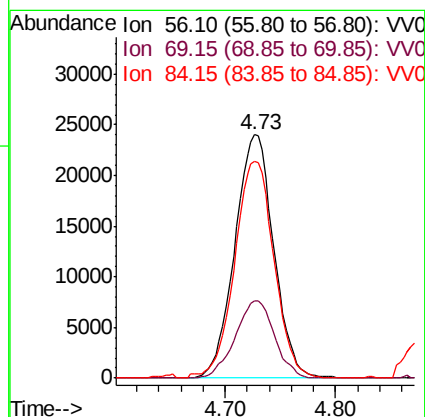
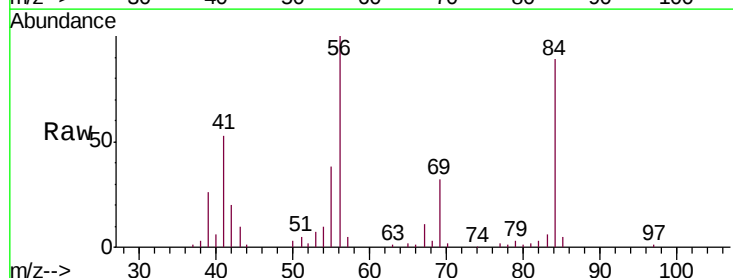
Instrument :
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 ClientSampleId :
 VSTD00576

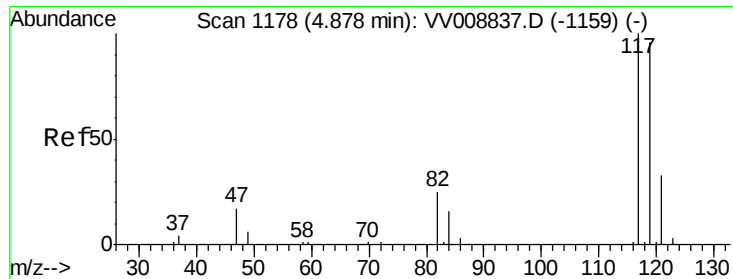
Tgt Ion: 97 Resp: 60395
 Ion Ratio Lower Upper
 97 100
 99 65.1 50.7 76.1
 61 41.3 34.0 51.0



#30
 Cyclohexane
 Concen: 4.923 ug/L
 RT: 4.73 min Scan# 1131
 Delta R.T. 0.00 min
 Lab File: VV008852.D
 Acq: 05 Dec 2018 20:23

Tgt Ion: 56 Resp: 58599
 Ion Ratio Lower Upper
 56 100
 69 32.0 25.4 38.2
 84 90.4 72.2 108.2

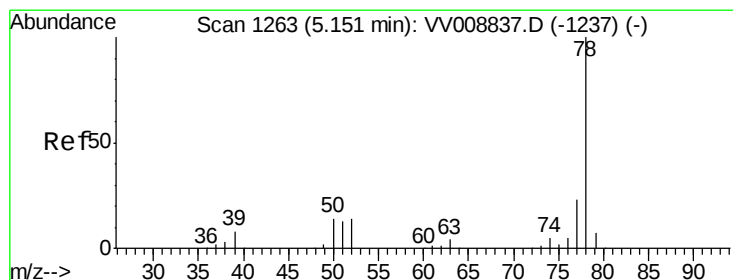
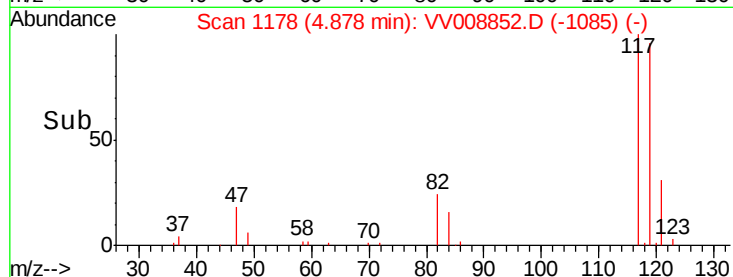
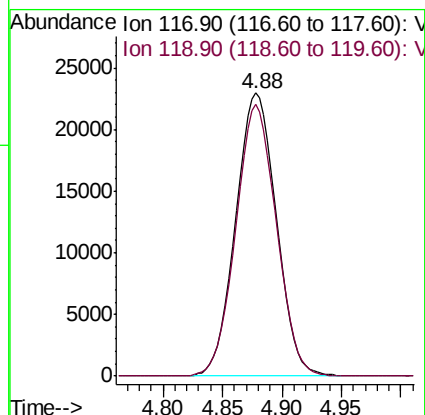
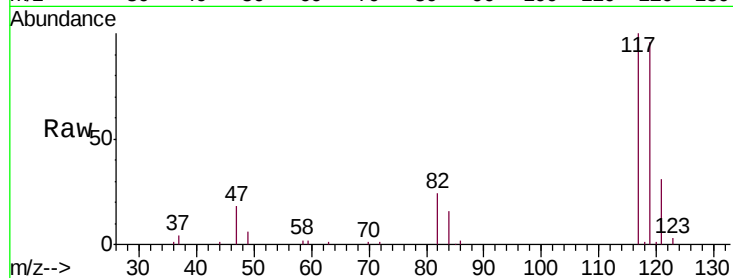




#31
Carbon tetrachloride
Concen: 4.878 ug/L
RT: 4.88 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

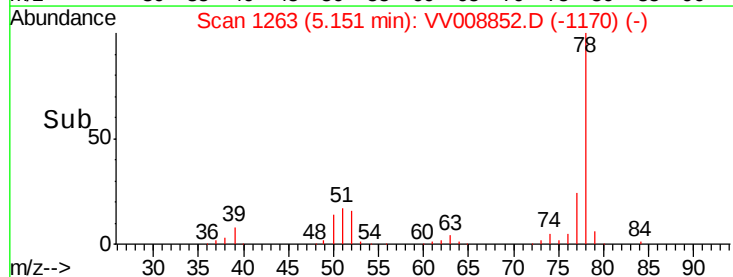
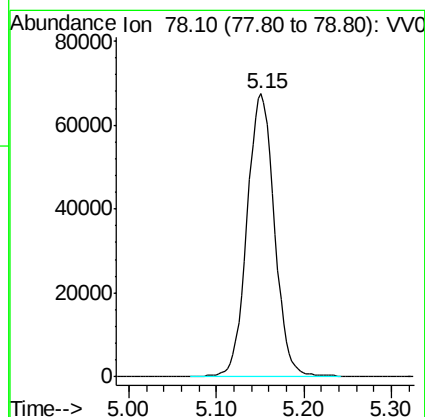
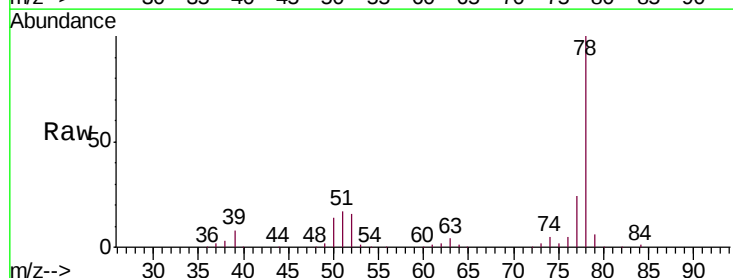
Instrument :
MSVOA_V
ClientSampleId :
VSTD00576

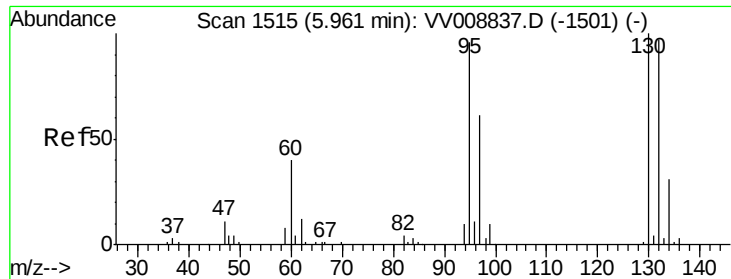
Tgt Ion:117 Resp: 54377
Ion Ratio Lower Upper
117 100
119 95.6 77.1 115.7



#33
Benzene
Concen: 4.943 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Tgt Ion: 78 Resp: 146985

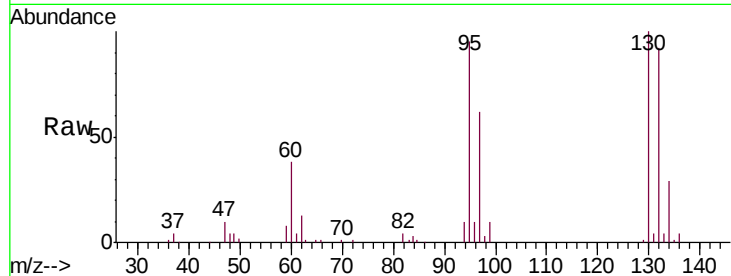




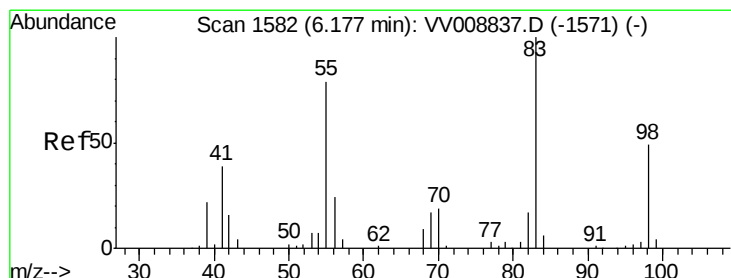
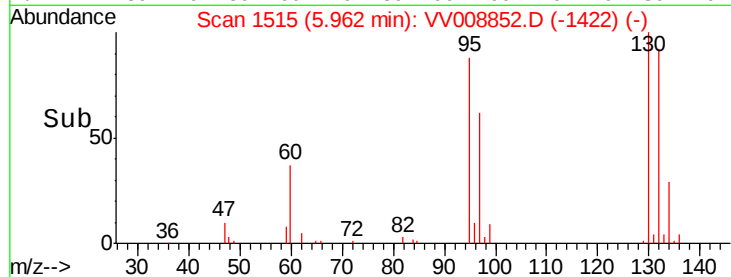
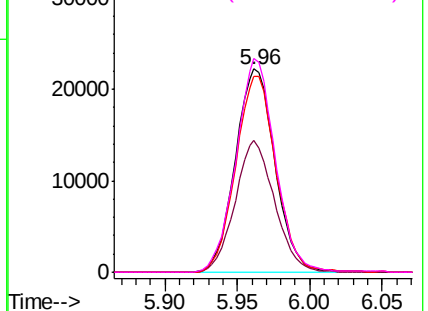
#34
 Trichloroethene
 Concen: 4.884 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV008852.D
 Acq: 05 Dec 2018 20:23

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00576

Tgt Ion: 95 Resp: 42238
 Ion Ratio Lower Upper
 95 100
 97 64.9 44.4 82.5
 132 96.7 70.7 131.3
 130 105.1 72.9 135.3

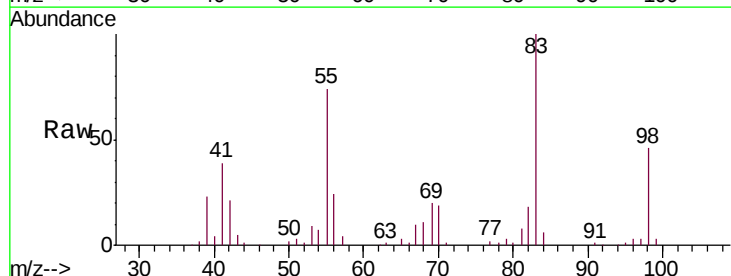


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

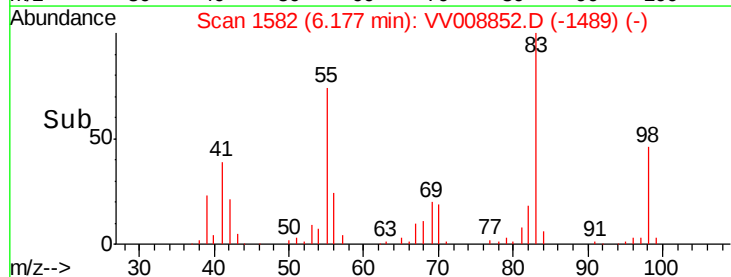
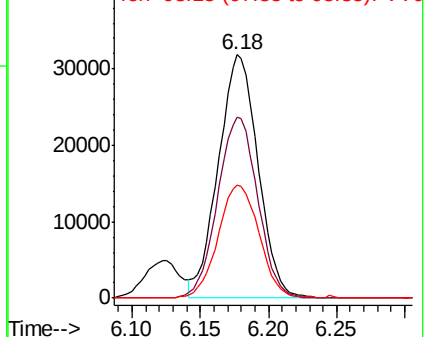


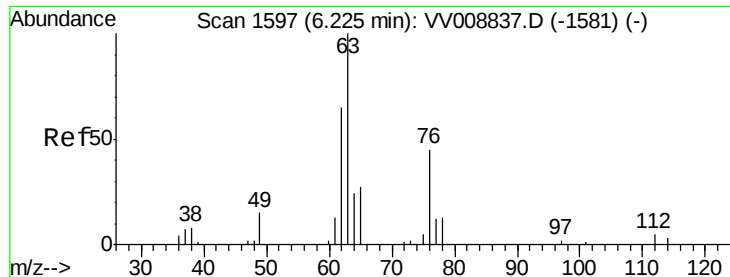
#35
 Methylcyclohexane
 Concen: 4.710 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV008852.D
 Acq: 05 Dec 2018 20:23

Tgt Ion: 83 Resp: 64433
 Ion Ratio Lower Upper
 83 100
 55 74.9 60.0 90.0
 98 48.0 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: 4.953 ug/L

RT: 6.23 min Scan# 1597

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Instrument :

MSVOA_V

ClientSampleId :

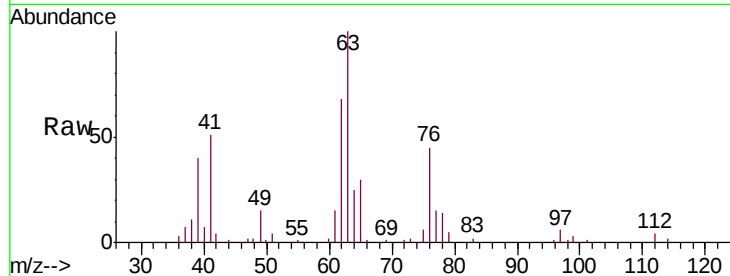
VSTD00576

Tgt Ion: 63 Resp: 36091

Ion Ratio Lower Upper

63 100

112 4.2 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) (-)

6.23

20000

15000

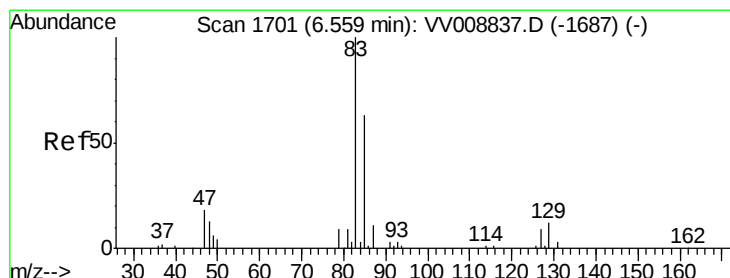
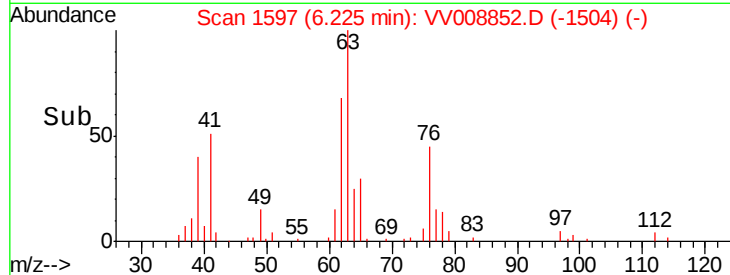
10000

5000

0

6.15 6.20 6.25 6.30

Time-->



#38

Bromodichloromethane

Concen: 4.764 ug/L

RT: 6.56 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

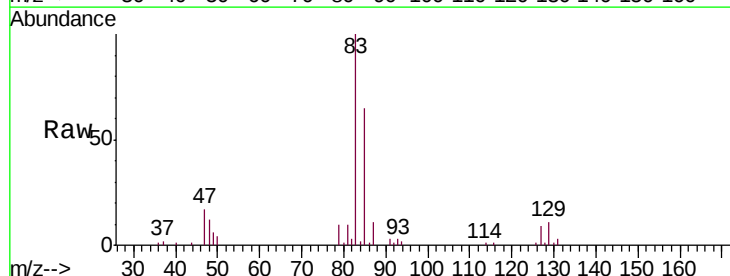
Tgt Ion: 83 Resp: 42727

Ion Ratio Lower Upper

83 100

85 64.9 44.2 82.0

127 9.4 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) (-)

6.56

30000

25000

20000

15000

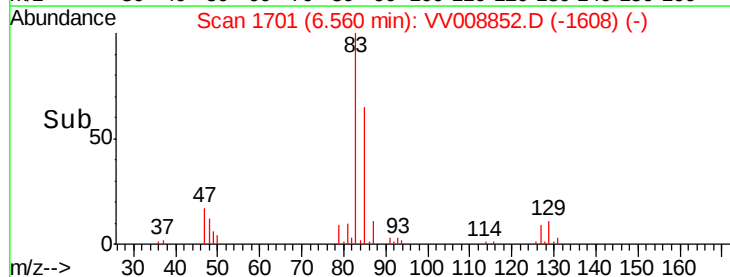
10000

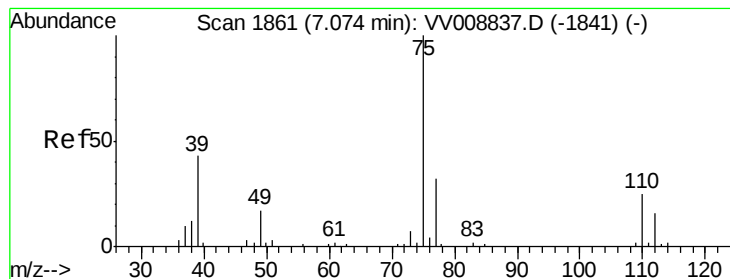
5000

0

6.50 6.55 6.60 6.65

Time-->



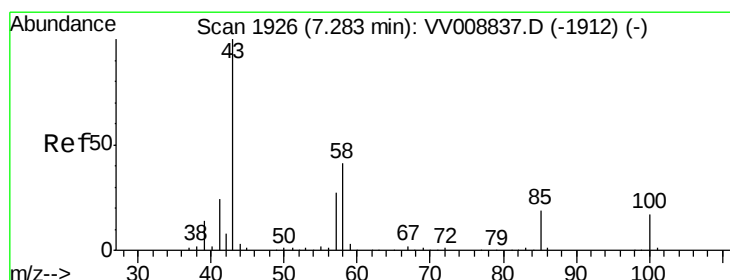
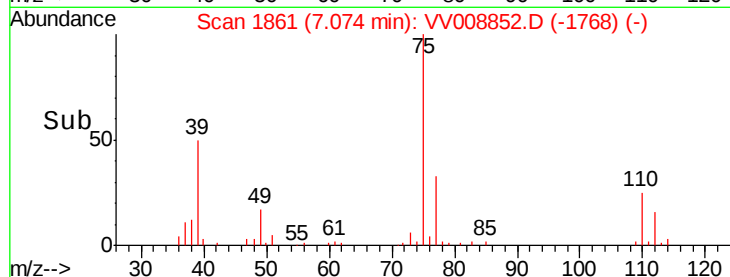
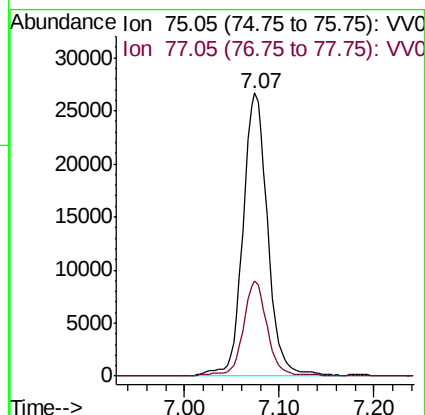
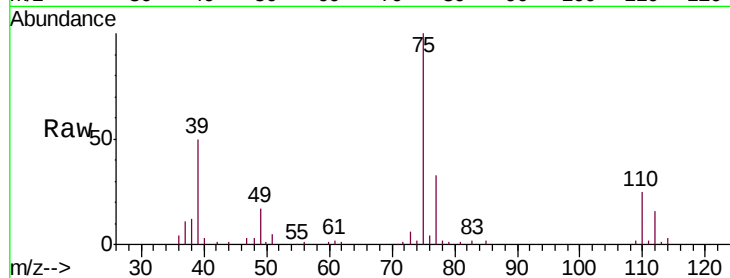


#39

cis-1,3-Dichloropropene
Concen: 4.747 ug/L
RT: 7.07 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD00576

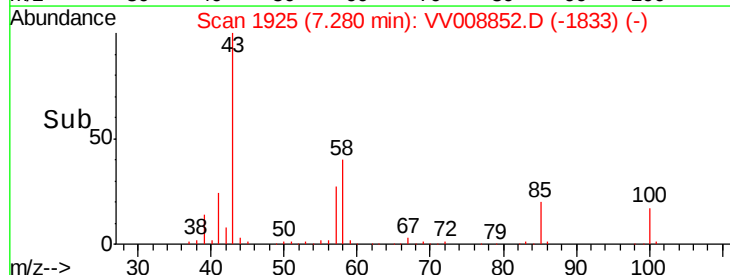
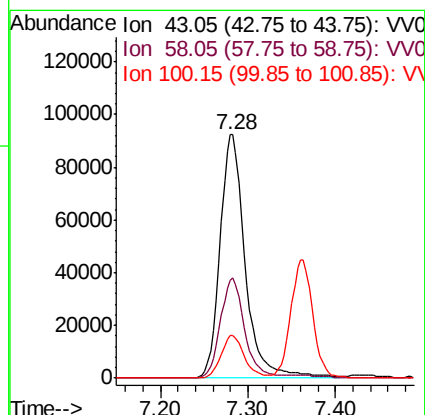
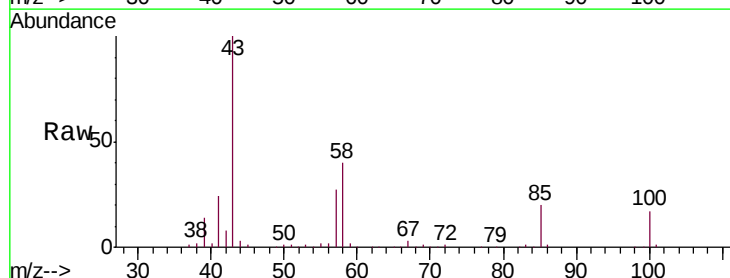
Tgt Ion: 75 Resp: 48475
Ion Ratio Lower Upper
75 100
77 33.4 22.3 41.3

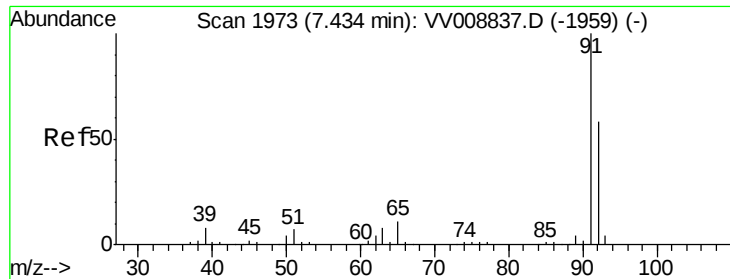


#40

4-Methyl-2-pentanone
Concen: 49.948 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. -0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Tgt Ion: 43 Resp: 184632
Ion Ratio Lower Upper
43 100
58 39.7 32.6 48.8
100 16.2 13.4 20.0





#42

Toluene

Concen: 4.973 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Instrument :

MSVOA_V

ClientSampleId :

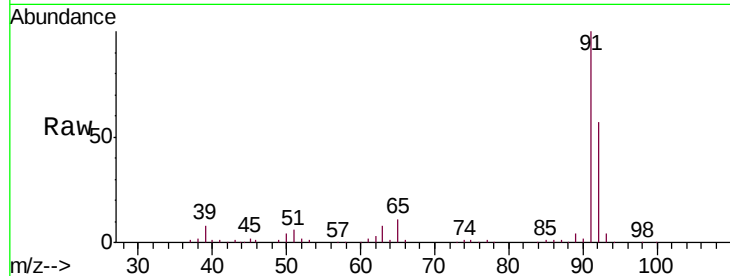
VSTD00576

Tgt Ion: 91 Resp: 159601

Ion Ratio Lower Upper

91 100

92 57.3 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VV008837.D (-1959) (-)

Ion 92.15 (91.85 to 92.85): VV008837.D (-1959) (-)

7.43

100000

80000

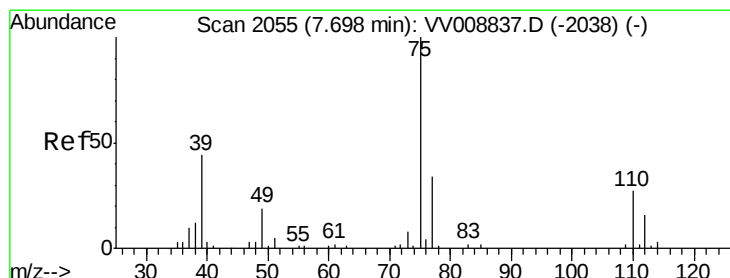
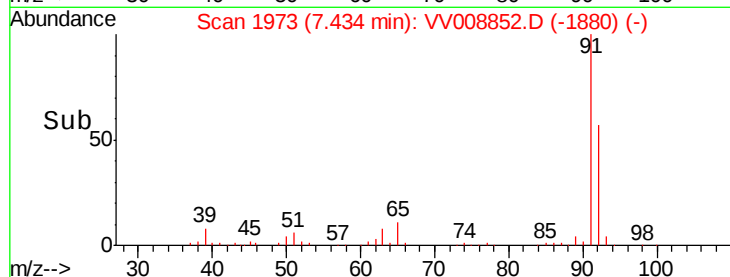
60000

40000

20000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.804 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008852.D

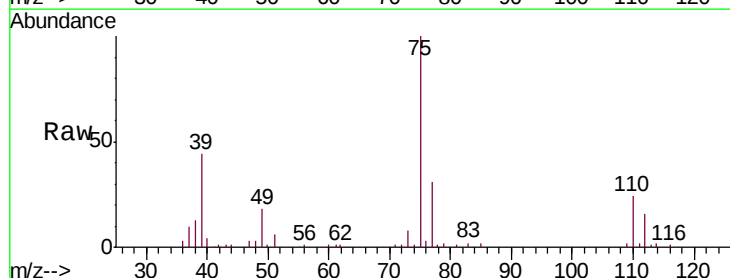
Acq: 05 Dec 2018 20:23

Tgt Ion: 75 Resp: 38057

Ion Ratio Lower Upper

75 100

77 31.0 23.6 43.8



Abundance Ion 75.05 (74.75 to 75.75): VV008837.D (-2038) (-)

Ion 77.05 (76.75 to 77.75): VV008837.D (-2038) (-)

7.70

25000

20000

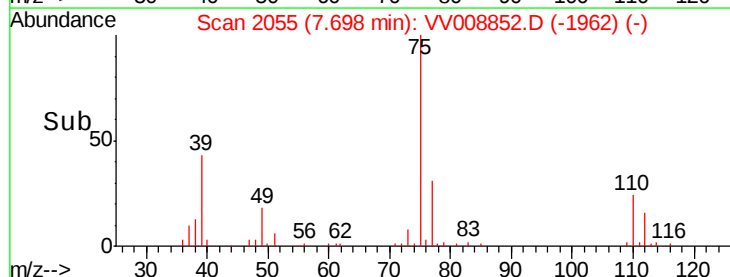
15000

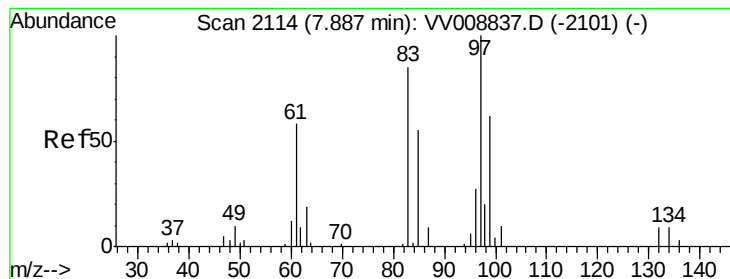
10000

5000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.022 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00576

Tgt Ion: 97 Resp: 25691

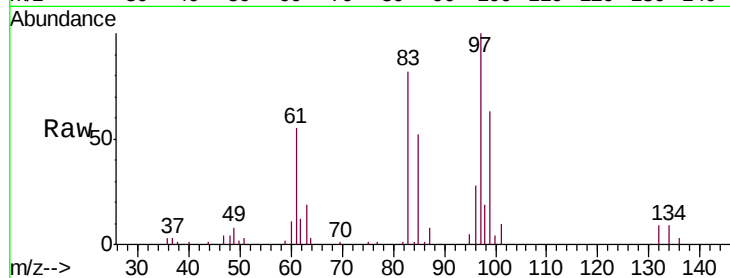
Ion Ratio Lower Upper

97 100

99 62.5 43.3 80.3

83 82.5 59.4 110.2

85 51.7 38.5 71.5

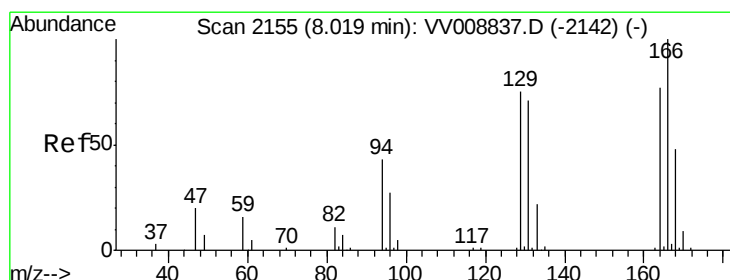
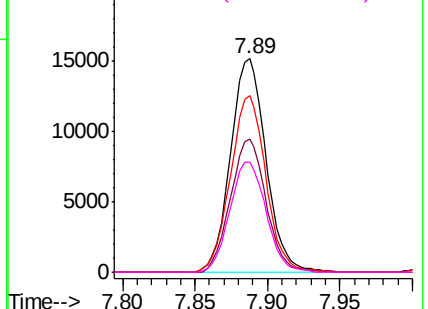
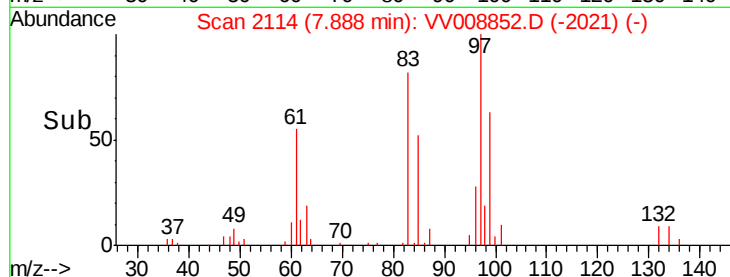


Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 4.964 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Tgt Ion: 164 Resp: 34446

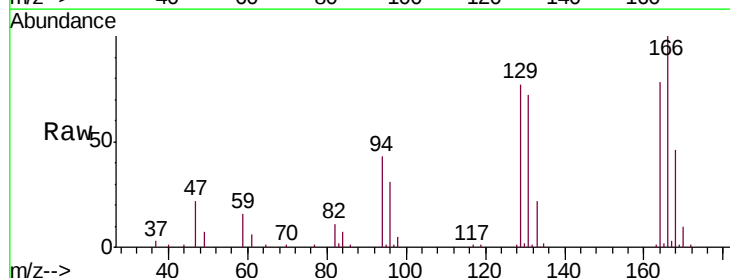
Ion Ratio Lower Upper

164 100

129 98.3 68.8 127.8

131 92.5 64.8 120.4

166 128.3 91.5 169.9

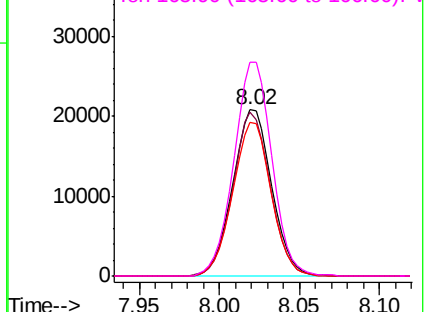
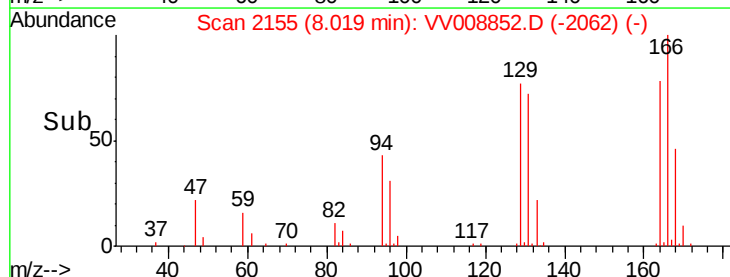


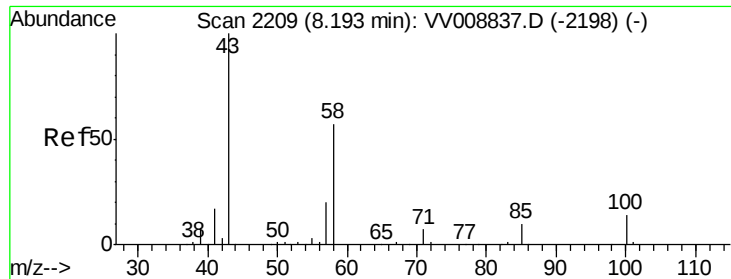
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

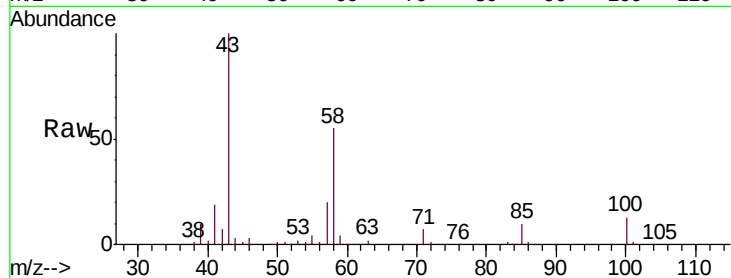




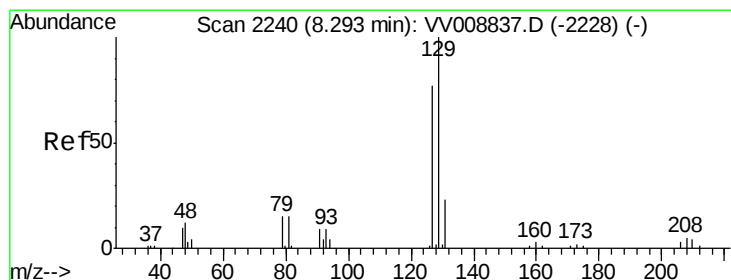
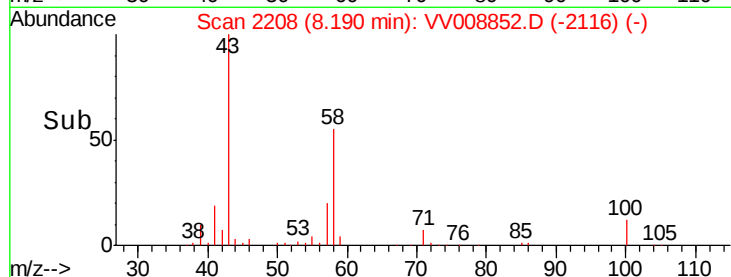
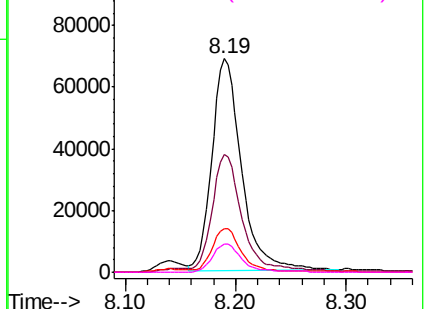
#48
2-Hexanone
Concen: 49.013 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD00576

Tgt Ion: 43 Resp: 127717
Ion Ratio Lower Upper
43 100
58 55.4 44.4 66.6
57 19.5 15.8 23.8
100 13.5 10.9 16.3

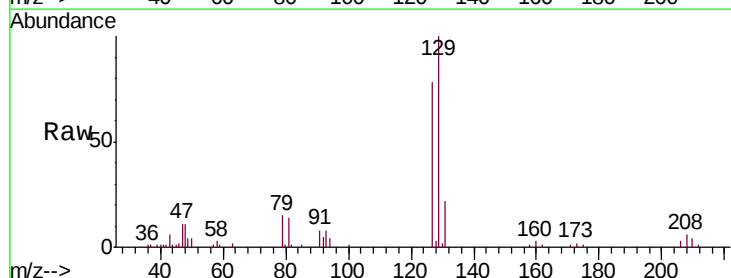


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

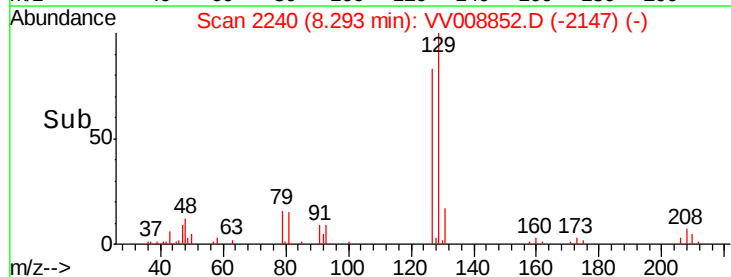
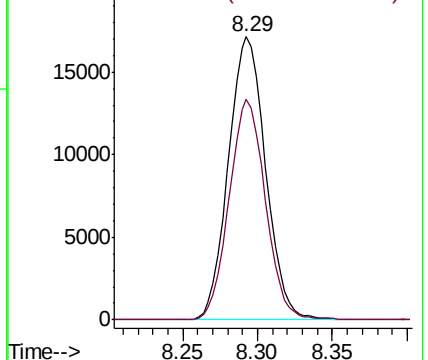


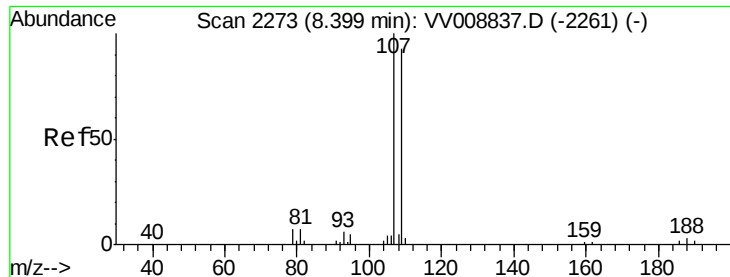
#49
Dibromochloromethane
Concen: 4.966 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Tgt Ion: 129 Resp: 29715
Ion Ratio Lower Upper
129 100
127 78.2 54.0 100.4



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

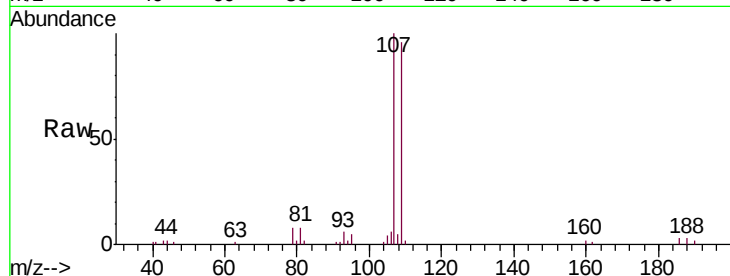




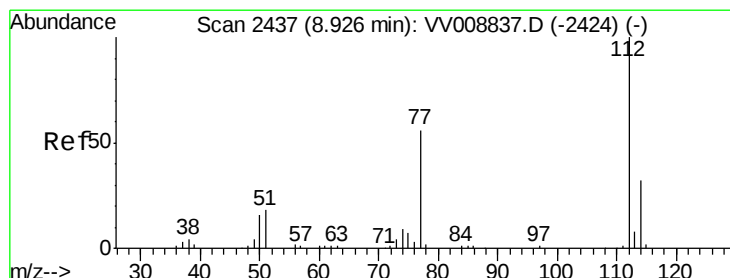
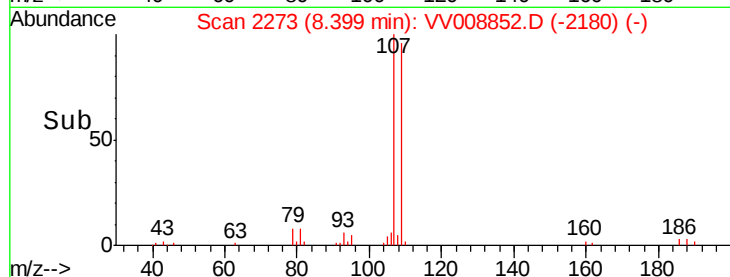
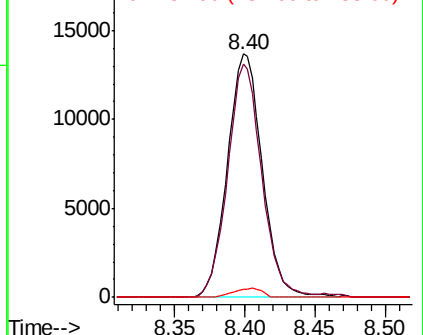
#50
1,2-Dibromoethane
Concen: 4.941 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD00576

Tgt Ion:107 Resp: 23686
Ion Ratio Lower Upper
107 100
109 96.0 65.3 121.3
188 3.4 2.5 3.7

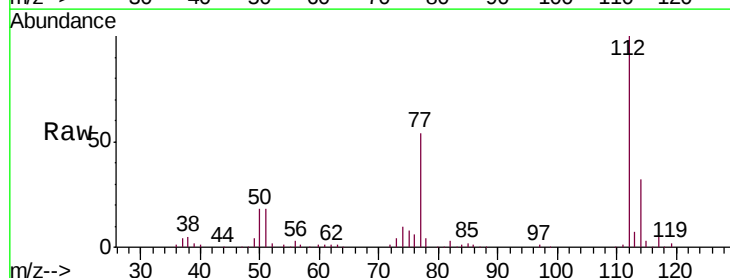


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

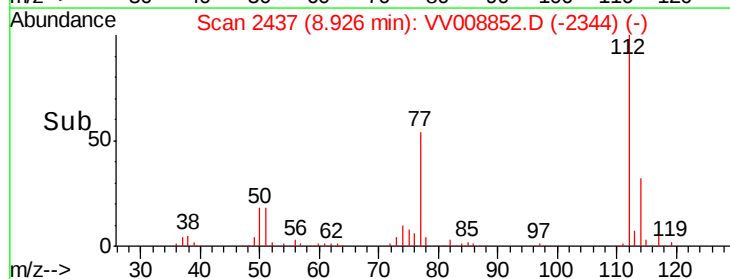
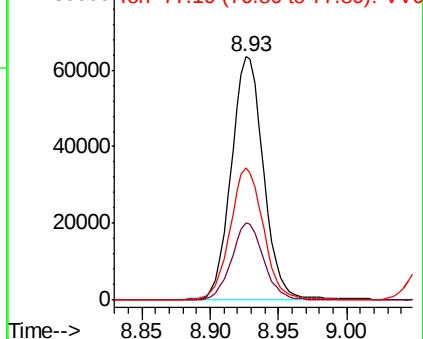


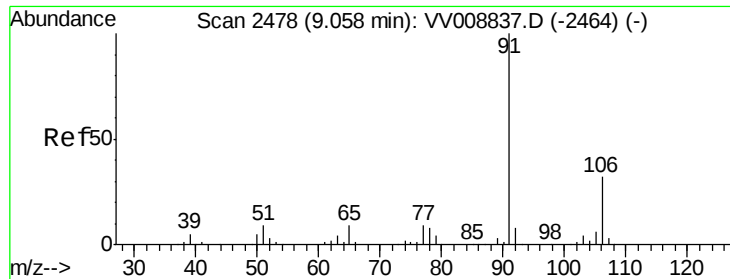
#51
Chlorobenzene
Concen: 4.944 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Tgt Ion:112 Resp: 104419
Ion Ratio Lower Upper
112 100
114 31.7 22.3 41.5
77 54.2 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: 4.920 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Instrument :

MSVOA_V

ClientSampleId :

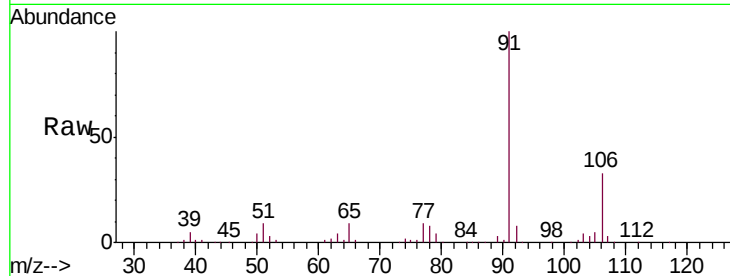
VSTD00576

Tgt Ion: 91 Resp: 172391

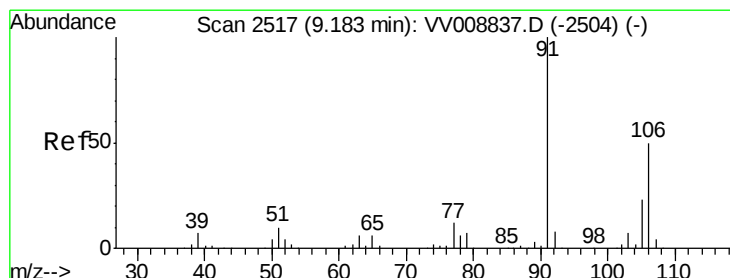
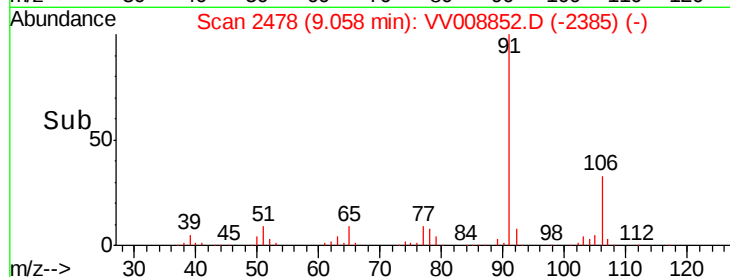
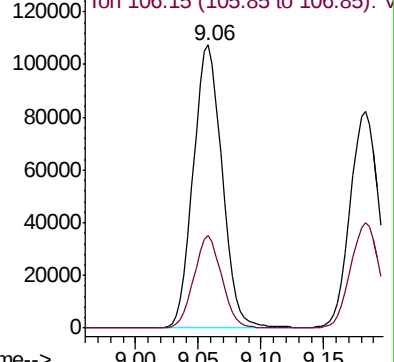
Ion Ratio Lower Upper

91 100

106 32.8 22.1 41.1



Abundance Ion 91.15 (90.85 to 91.85): VV008852.D (-2385) (-)



#53

m,p-xylene

Concen: 4.991 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV008852.D

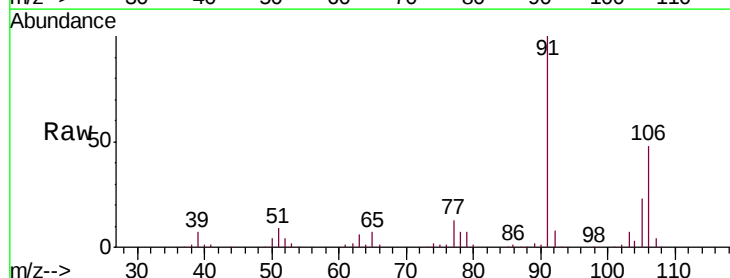
Acq: 05 Dec 2018 20:23

Tgt Ion: 106 Resp: 66816

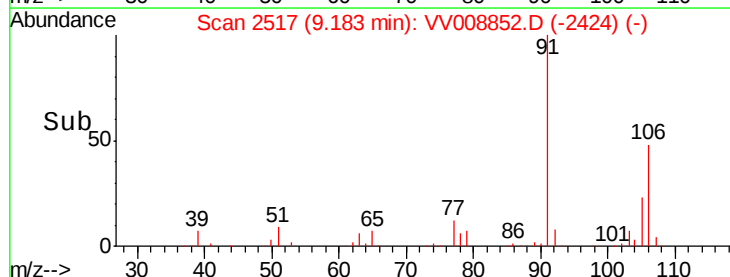
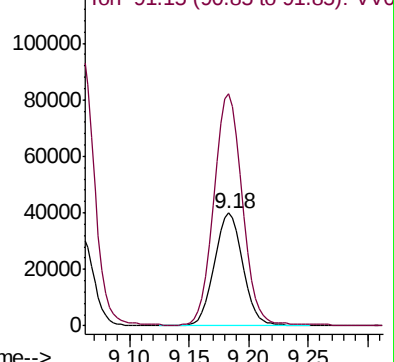
Ion Ratio Lower Upper

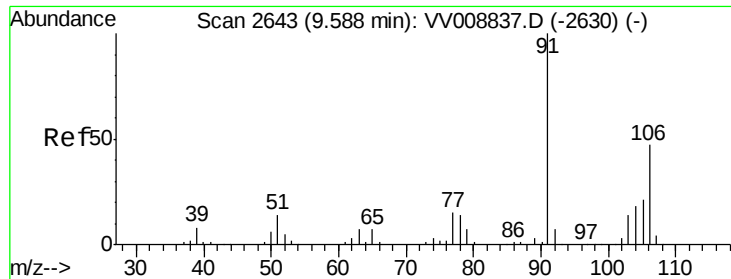
106 100

91 206.5 141.9 263.5



Abundance Ion 106.15 (105.85 to 106.85): VV008852.D (-2424) (-)

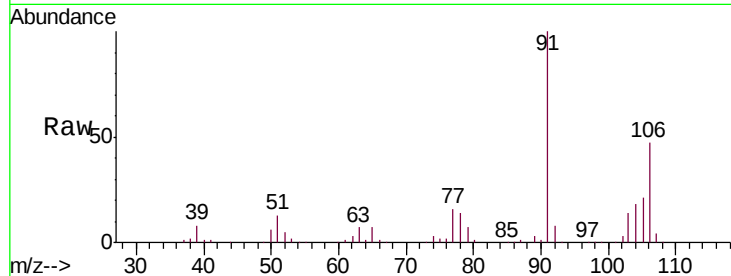




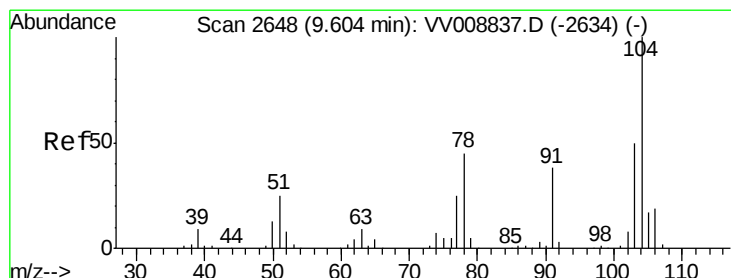
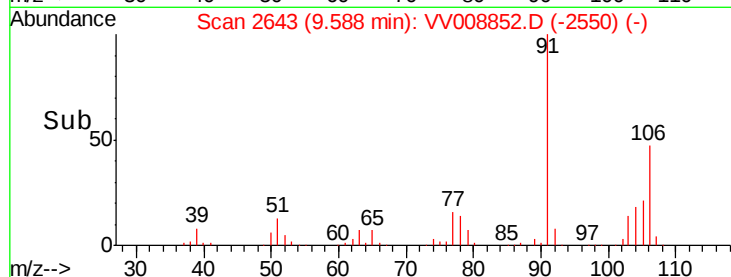
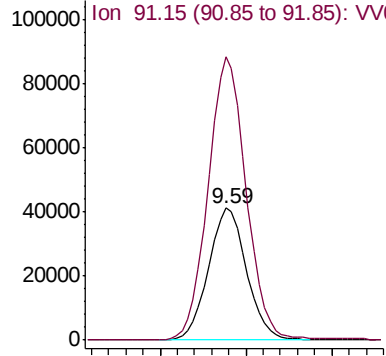
#54
o-xylene
Concen: 4.963 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Instrument :
MSVOA_V
ClientSampleId :
VSTD00576

Tgt Ion:106 Resp: 63366
Ion Ratio Lower Upper
106 100
91 214.5 149.0 276.6

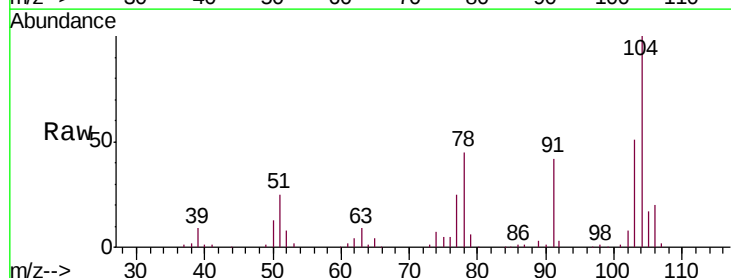


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

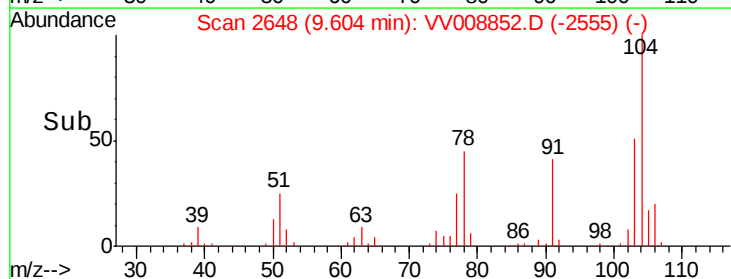
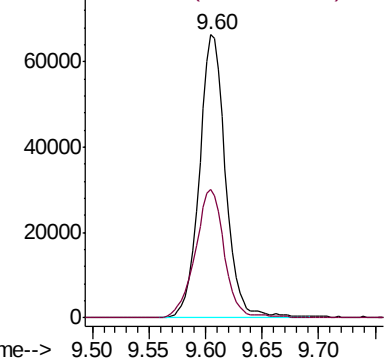


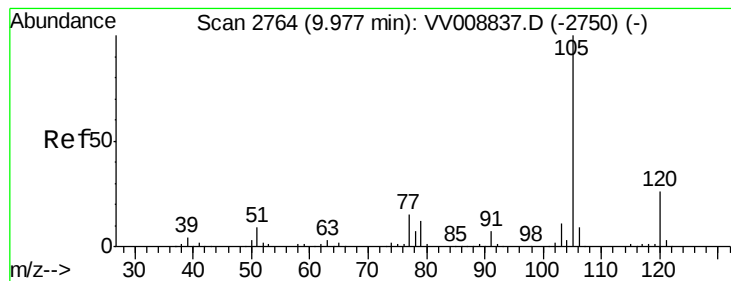
#55
Styrene
Concen: 5.051 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV008852.D
Acq: 05 Dec 2018 20:23

Tgt Ion:104 Resp: 106687
Ion Ratio Lower Upper
104 100
78 45.3 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: 5.054 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00576

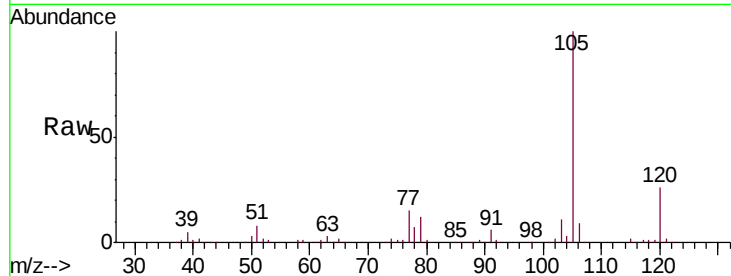
Tgt Ion: 105 Resp: 174575

Ion Ratio Lower Upper

105 100

120 26.1 21.2 31.8

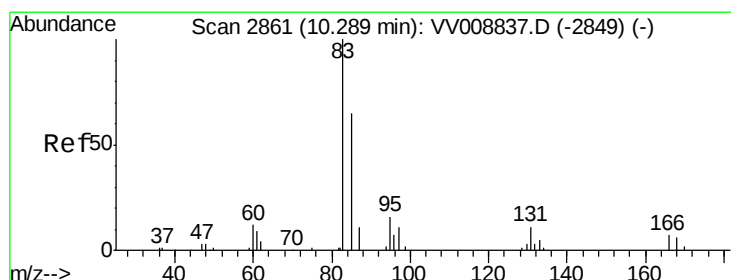
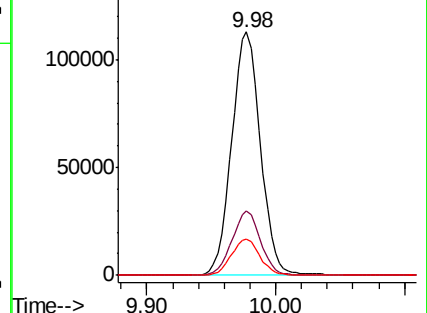
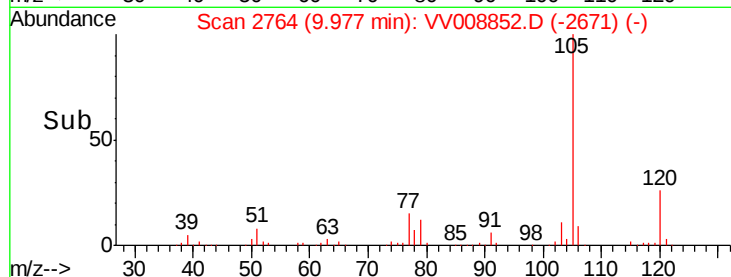
77 14.9 12.4 18.6



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: 5.181 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

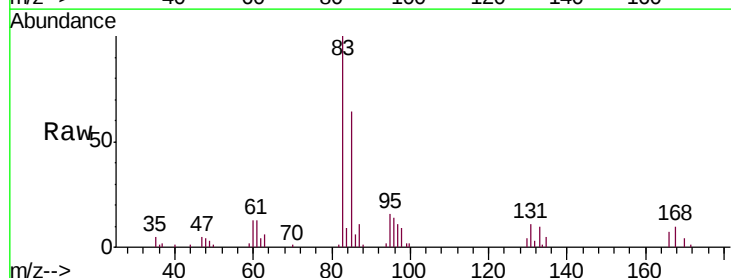
Tgt Ion: 83 Resp: 26751

Ion Ratio Lower Upper

83 100

85 63.9 45.8 85.0

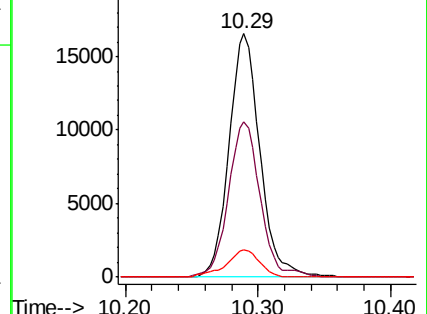
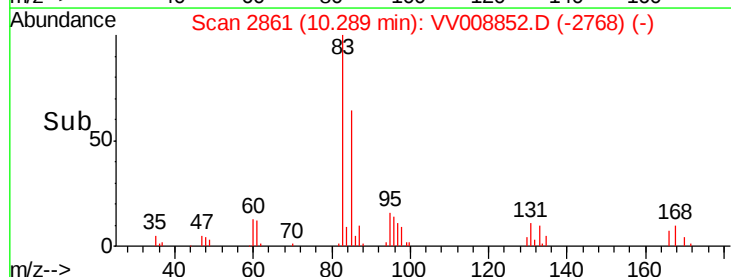
131 11.0 9.6 14.4

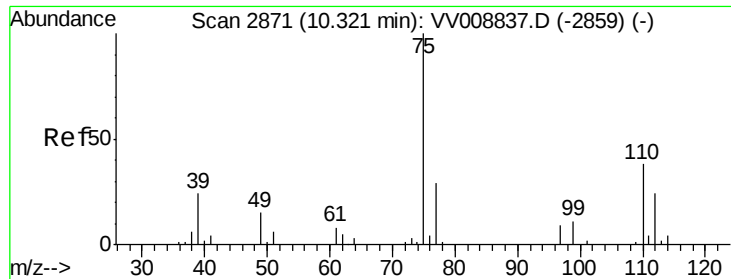


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.864 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Instrument :

MSVOA_V

ClientSampleId :

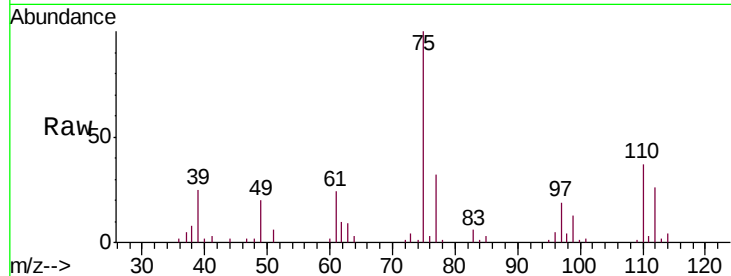
VSTD00576

Tgt Ion: 75 Resp: 21156

Ion Ratio Lower Upper

75 100

77 32.8 24.8 37.2



Abundance Ion 75.00 (74.70 to 75.70): VV008837.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV008837.D (-2859) (-)

10.32

15000

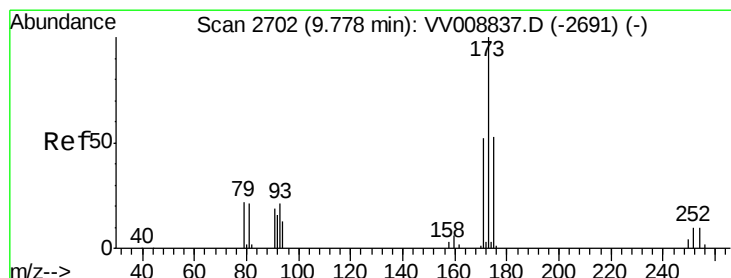
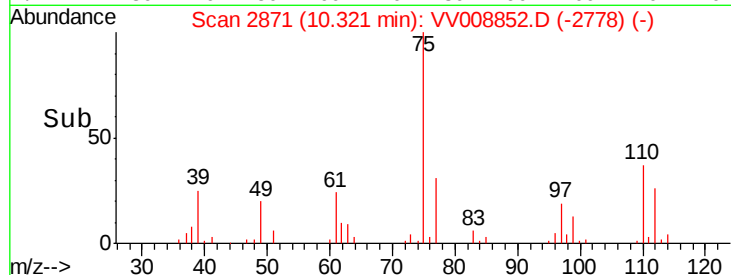
10000

5000

0

Time-->

10.25 10.30 10.35 10.40



#61

Bromoform

Concen: 4.853 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

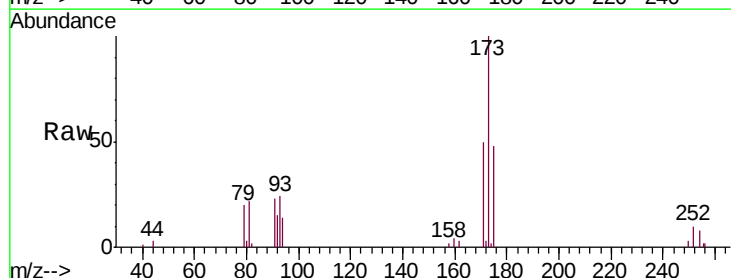
Tgt Ion: 173 Resp: 14764

Ion Ratio Lower Upper

173 100

175 46.8 40.2 60.4

254 7.8 7.0 10.6



Abundance Ion 172.90 (172.60 to 173.60): VV008837.D (-2691) (-)

Ion 174.90 (174.60 to 175.60): VV008837.D (-2691) (-)

Ion 253.75 (253.45 to 254.45): VV008837.D (-2691) (-)

9.78

12000

10000

8000

6000

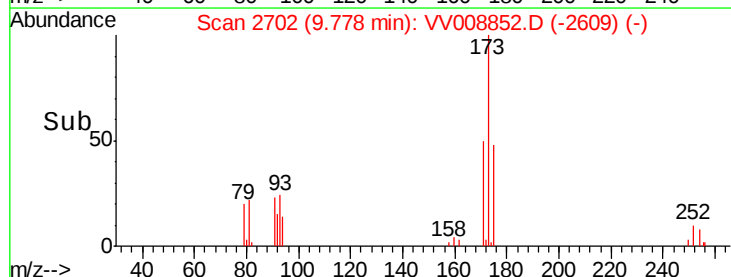
4000

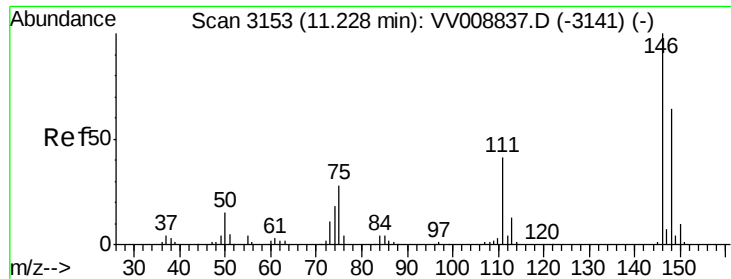
2000

0

Time-->

9.70 9.75 9.80 9.85

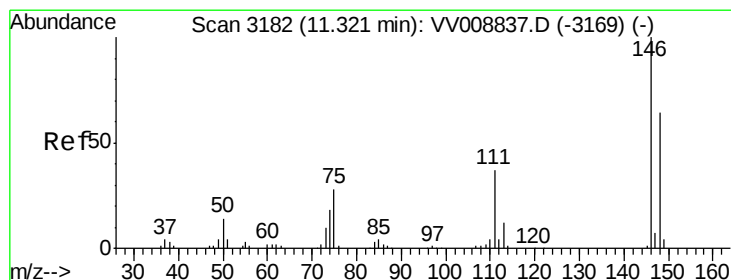
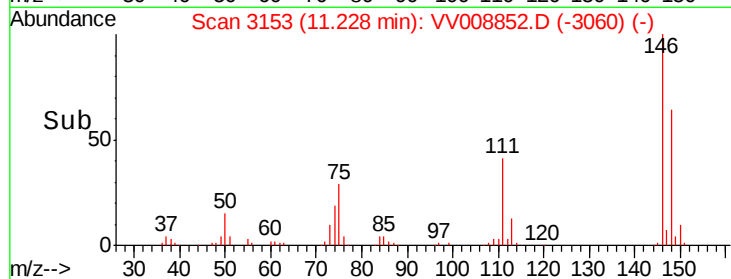
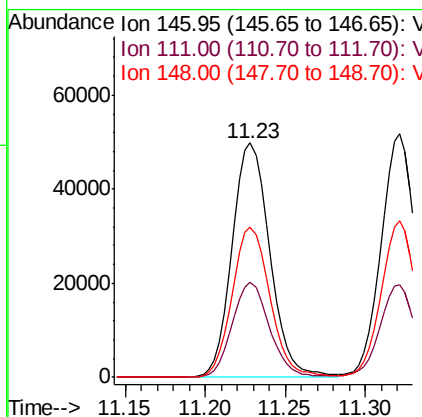
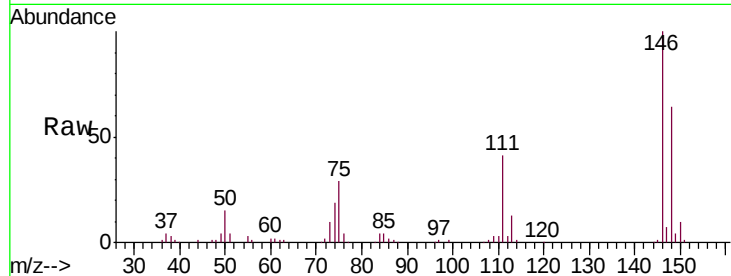




#62
 1,3-Dichlorobenzene
 Concen: 4.853 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV008852.D
 Acq: 05 Dec 2018 20:23

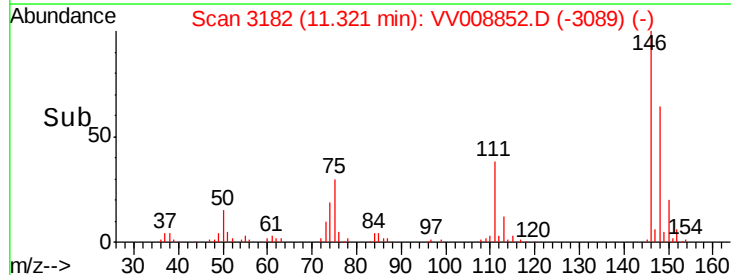
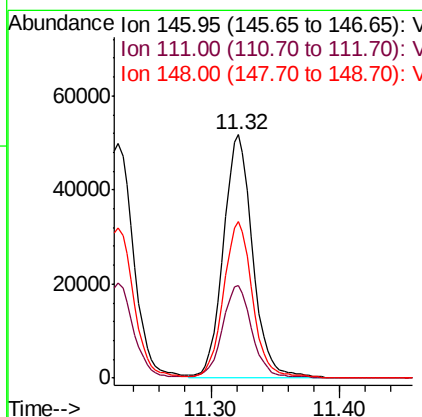
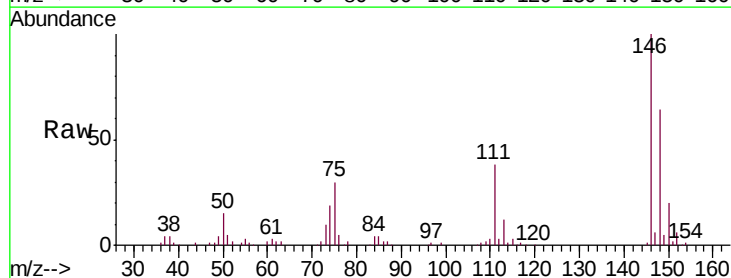
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00576

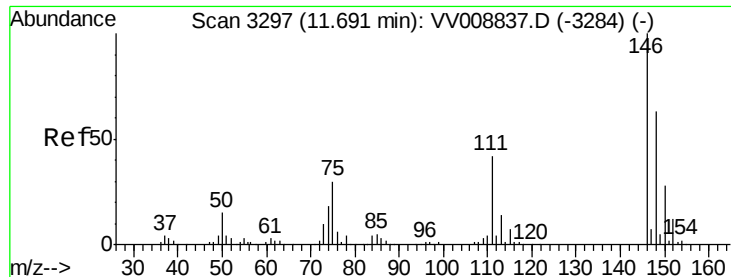
Tgt Ion:146 Resp: 80237
 Ion Ratio Lower Upper
 146 100
 111 40.6 28.5 52.9
 148 64.2 45.0 83.6



#63
 1,4-Dichlorobenzene
 Concen: 4.838 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV008852.D
 Acq: 05 Dec 2018 20:23

Tgt Ion:146 Resp: 81766
 Ion Ratio Lower Upper
 146 100
 111 38.3 26.2 48.8
 148 64.2 44.7 82.9





#65

1,2-Dichlorobenzene

Concen: 4.967 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00576

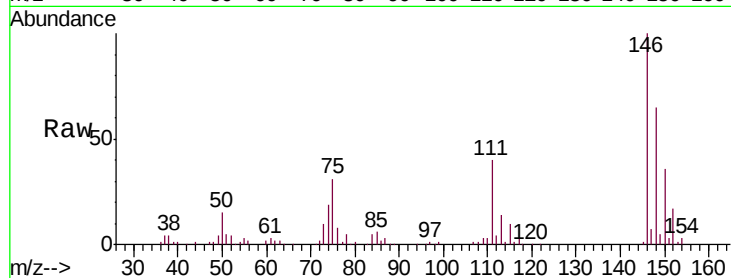
Tgt Ion:146 Resp: 75854

Ion Ratio Lower Upper

146 100

111 39.6 33.8 50.6

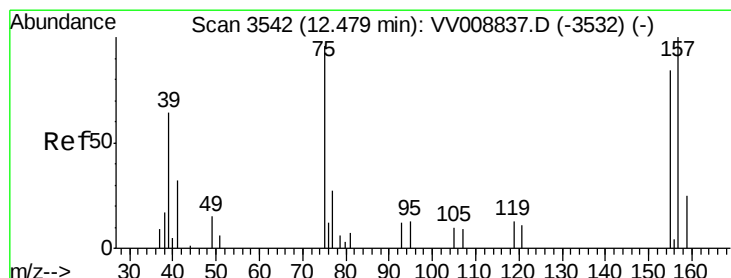
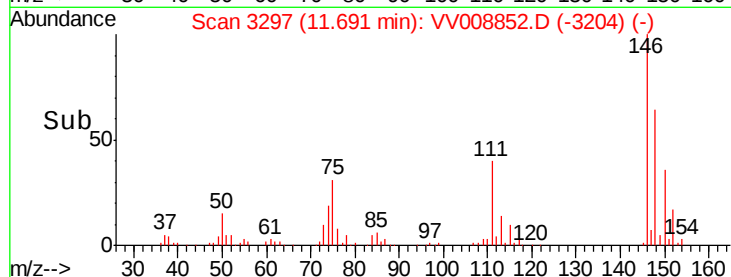
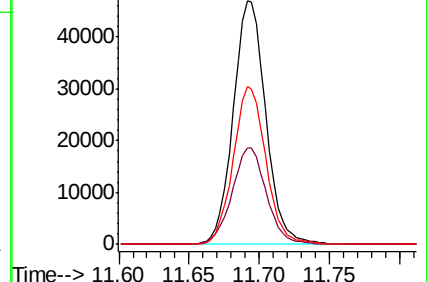
148 64.6 50.0 75.0



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



#66

1,2-Dibromo-3-chloropropane

Concen: 5.214 ug/L

RT: 12.48 min Scan# 3543

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

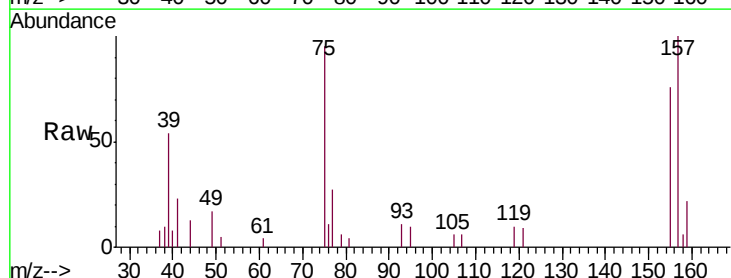
Tgt Ion: 75 Resp: 3997

Ion Ratio Lower Upper

75 100

155 80.8 70.2 105.4

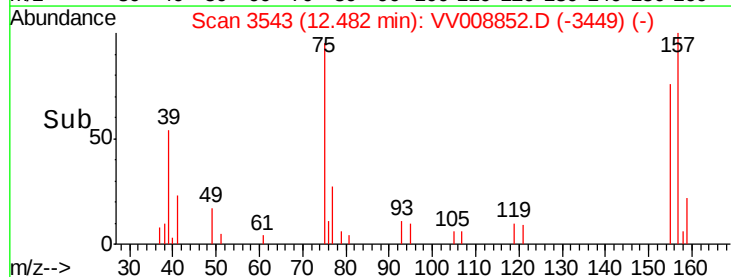
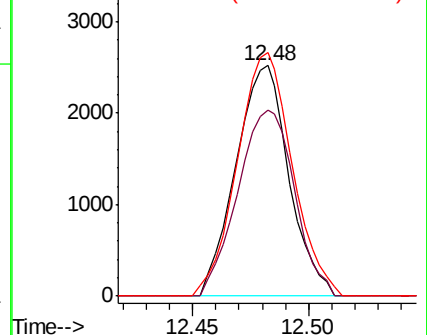
157 105.7 83.4 125.2

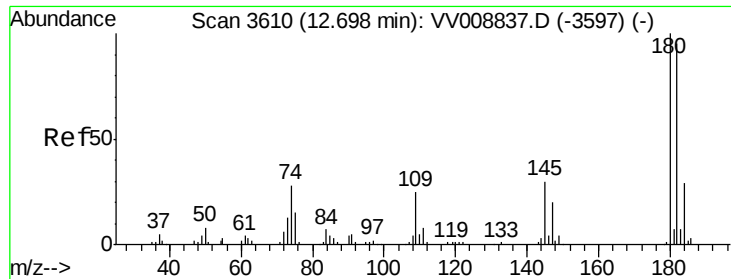


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

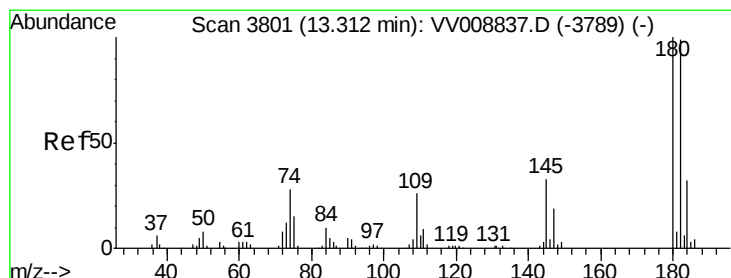
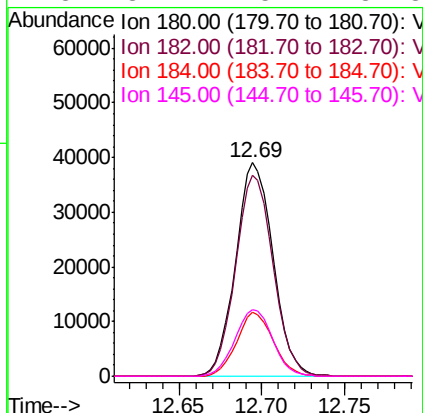
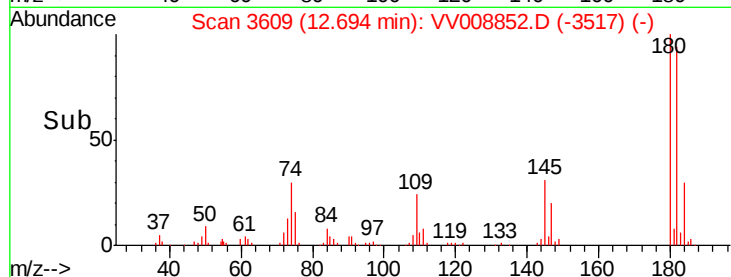
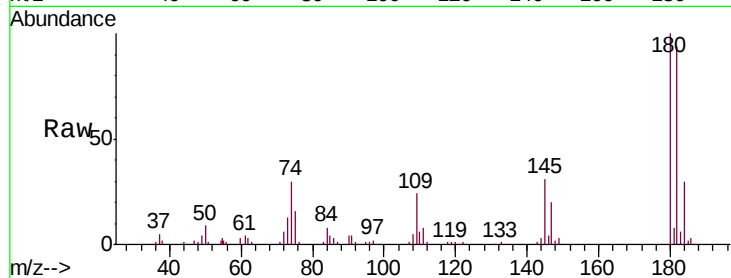




#67
 1,3,5-Trichlorobenzene
 Concen: 4.978 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV008852.D
 Acq: 05 Dec 2018 20:23

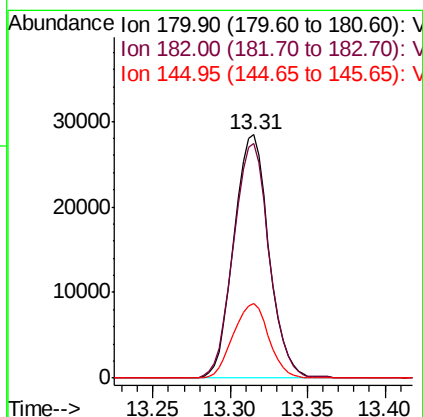
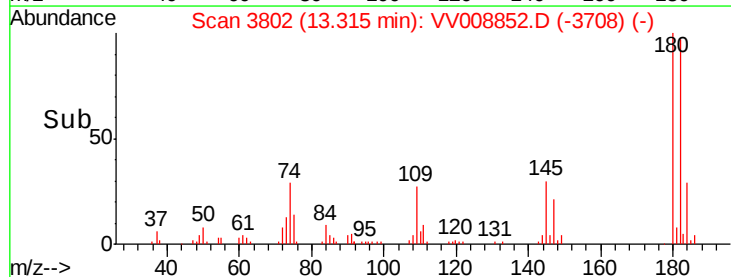
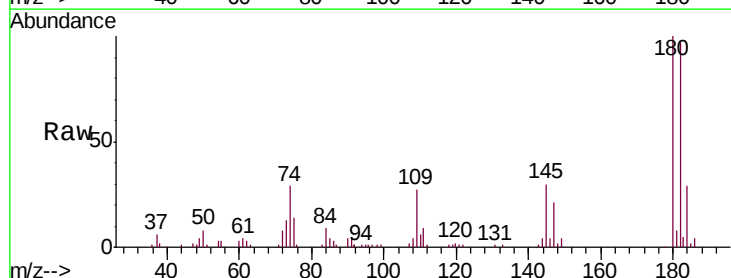
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00576

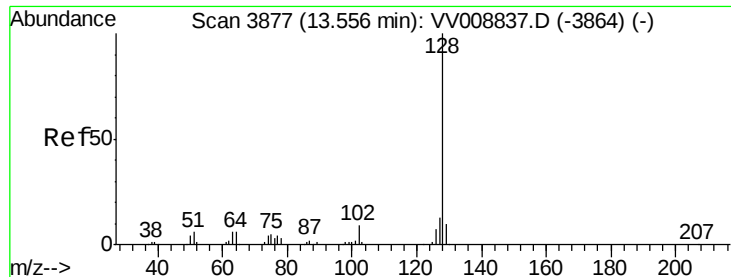
Tgt Ion:	180	Resp:	61268
Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.5	114.7
184	29.2	24.3	36.5
145	31.2	25.2	37.8



#68
 1,2,4-trichlorobenzene
 Concen: 4.895 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. 0.00 min
 Lab File: VV008852.D
 Acq: 05 Dec 2018 20:23

Tgt Ion:	180	Resp:	44761
Ion	Ratio	Lower	Upper
180	100		
182	97.9	76.2	114.4
145	31.1	26.2	39.4





#69

Naphthalene

Concen: 4.656 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

Instrument :

MSVOA_V

ClientSampleId :

VSTD00576

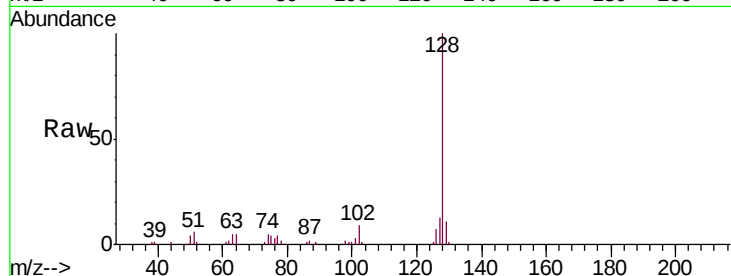
Tgt Ion:128 Resp: 61813

Ion Ratio Lower Upper

128 100

129 10.6 8.6 12.8

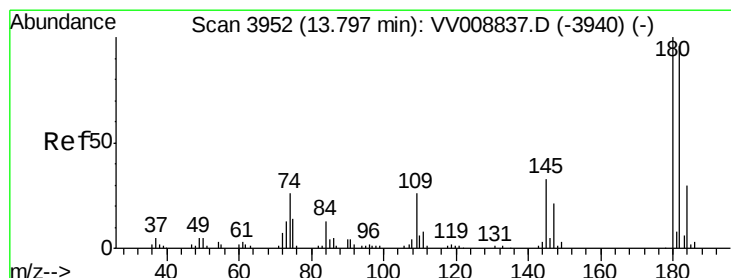
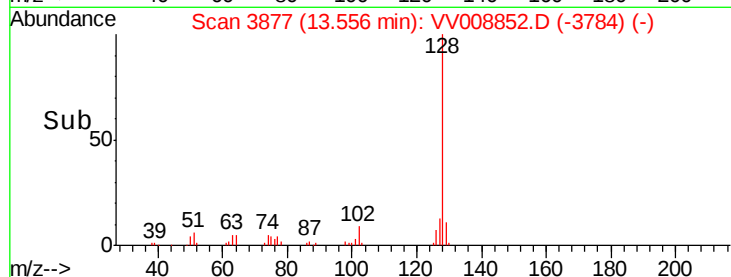
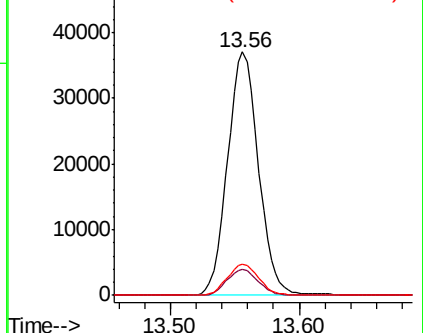
127 13.0 10.6 15.8



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: 5.037 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV008852.D

Acq: 05 Dec 2018 20:23

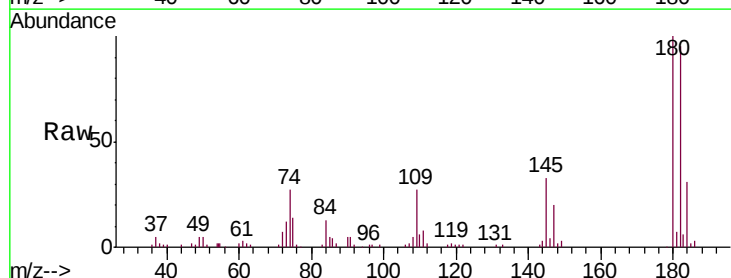
Tgt Ion:180 Resp: 43106

Ion Ratio Lower Upper

180 100

182 94.1 77.8 116.8

145 33.4 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

