

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV120718\
 Data File : VV008884.D
 Acq On : 07 Dec 2018 18:49
 Operator : SY/MD
 Sample : VSTDCCC005EC
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00572

Quant Time: Dec 07 22:20:59 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	104136	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	95635	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	48065	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	24259	4.37	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.40%
7) Chloroethane-d5	1.59	69	19919	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.20%
11) 1,1-Dichloroethene-d2	2.13	63	59234	5.53	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	110.60%
20) 2-Butanone-d5	3.98	46	74880	54.59	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.18%
24) Chloroform-d	4.41	84	64627	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.20%
26) 1,2-Dichloroethane-d4	5.09	65	32214	5.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.60%
32) Benzene-d6	5.10	84	125832	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.60%
36) 1,2-Dichloropropane-d6	6.12	67	36516	4.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.40%
41) Toluene-d8	7.36	98	118606	5.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
43) trans-1,3-Dichloropropene-	7.67	79	13742	4.96	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	99.20%
46) 2-Hexanone-d5	8.14	63	60142	56.96	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.92%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	26417	5.37	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	107.40%
64) 1,2-Dichlorobenzene-d4	11.68	152	44039	4.97	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	44031	4.451 ug/L	99
3) Chloromethane	1.25	50	29070	4.435 ug/L	99
5) Vinyl chloride	1.32	62	30646	4.588 ug/L	96
6) Bromomethane	1.54	94	18440	4.710 ug/L	96
8) Chloroethane	1.60	64	16840	4.488 ug/L	98
9) Trichlorofluoromethane	1.77	101	51600	4.794 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	32315	5.518 ug/L	98
12) 1,1-Dichloroethene	2.14	96	29696	5.820 ug/L	94
13) Acetone	2.23	43	45163	59.154 ug/L	99
14) Carbon disulfide	2.32	76	86516	5.635 ug/L	98
15) Methyl Acetate	2.47	43	11463	6.797 ug/L	95
16) Methylene chloride	2.54	84	31086	5.641 ug/L	96
17) Methyl tert-butyl Ether	2.81	73	70979	5.666 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	32104	5.757 ug/L	90
19) 1,1-Dichloroethane	3.23	63	57954	4.755 ug/L	99
21) 2-Butanone	4.06	43	66655	46.488 ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	36320	4.757 ug/L	98

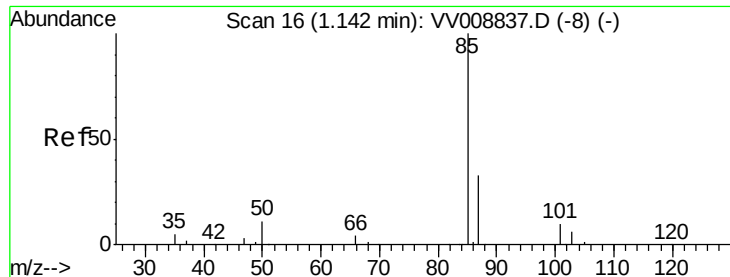
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV120718\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	15414	4.773	ug/L	95
25) Chloroform	4.43	83	62041	4.696	ug/L	98
27) 1,2-Dichloroethane	5.19	62	36916	4.896	ug/L	99
29) 1,1,1-Trichloroethane	4.66	97	54581	4.819	ug/L	99
30) Cyclohexane	4.72	56	49581	4.555	ug/L	99
31) Carbon tetrachloride	4.87	117	48705	4.777	ug/L	99
33) Benzene	5.15	78	130328	4.793	ug/L	100
34) Trichloroethene	5.96	95	37540	4.747	ug/L	98
35) Methylcyclohexane	6.17	83	55321	4.422	ug/L	98
37) 1,2-Dichloropropane	6.23	63	31214	4.684	ug/L	99
38) Bromodichloromethane	6.56	83	39650	4.835	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	44026	4.714	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	166282	49.191	ug/L	99
42) Toluene	7.43	91	140331	4.781	ug/L	97
44) trans-1,3-Dichloropropene	7.70	75	35575	4.911	ug/L	95
45) 1,1,2-Trichloroethane	7.89	97	22703	4.852	ug/L	97
47) Tetrachloroethene	8.02	164	30395	4.790	ug/L	98
48) 2-Hexanone	8.19	43	115919	48.646	ug/L	98
49) Dibromochloromethane	8.29	129	26131	4.775	ug/L	98
50) 1,2-Dibromoethane	8.40	107	21815	4.976	ug/L #	100
51) Chlorobenzene	8.93	112	91941	4.761	ug/L	99
52) Ethylbenzene	9.06	91	150327	4.691	ug/L	100
53) m,p-xylene	9.18	106	57404	4.689	ug/L	99
54) o-xylene	9.59	106	55719	4.772	ug/L	95
55) Styrene	9.60	104	94884	4.913	ug/L	98
56) Isopropylbenzene	9.98	105	151063	4.782	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	23452	4.967	ug/L	94
59) 1,2,3-Trichloropropane	10.32	75	18835	4.736	ug/L	96
61) Bromoform	9.78	173	13004	4.547	ug/L	97
62) 1,3-Dichlorobenzene	11.23	146	70953	4.566	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	72768	4.580	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	67695	4.716	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	3474	4.821	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	53325	4.610	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	39150	4.555	ug/L	99
69) Naphthalene	13.56	128	56220	4.506	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	38838	4.828	ug/L	95

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



#2

Dichlorodifluoromethane

Concen: 4.451 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

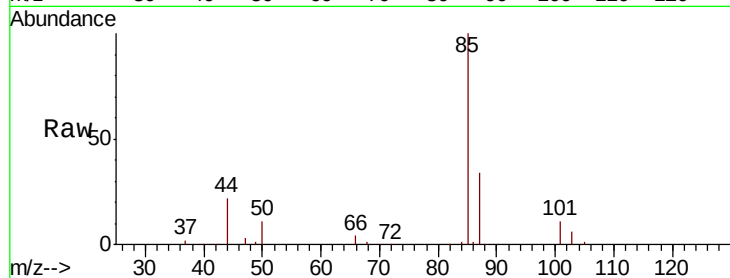
VSTD00572

Tgt Ion: 85 Resp: 44031

Ion Ratio Lower Upper

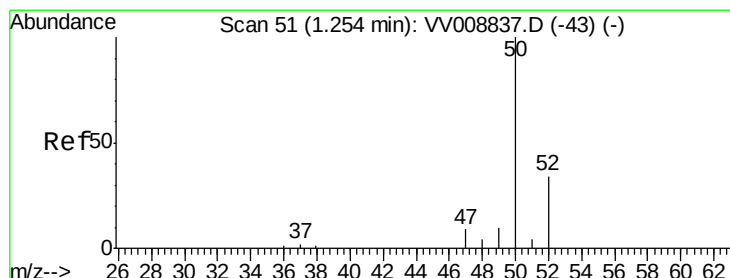
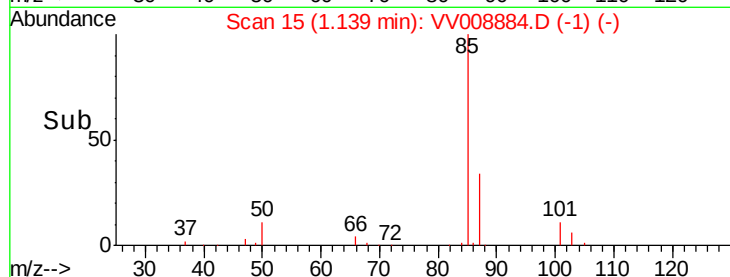
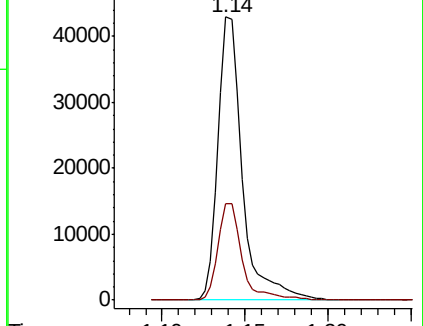
85 100

87 33.5 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.435 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV008884.D

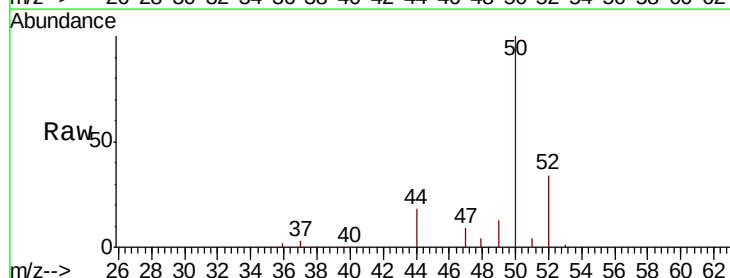
Acq: 07 Dec 2018 18:49

Tgt Ion: 50 Resp: 29070

Ion Ratio Lower Upper

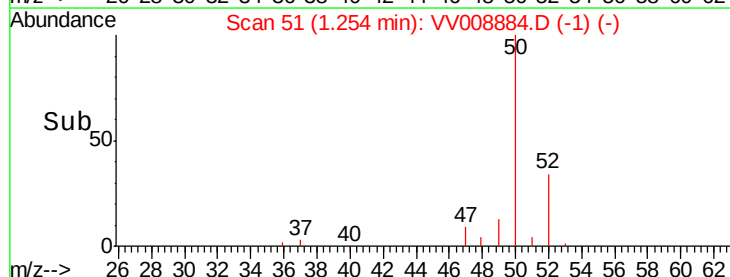
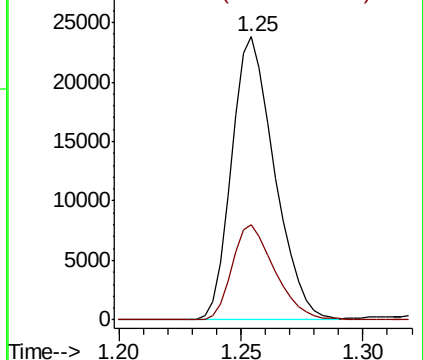
50 100

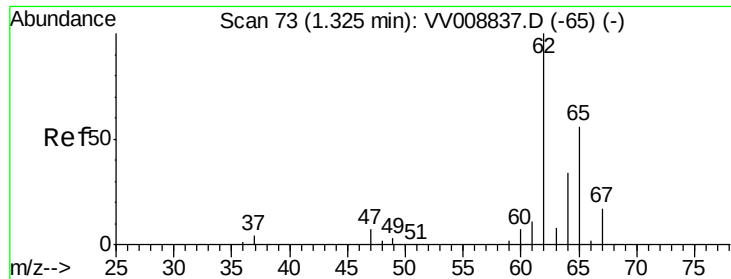
52 33.6 23.9 44.5



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.588 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

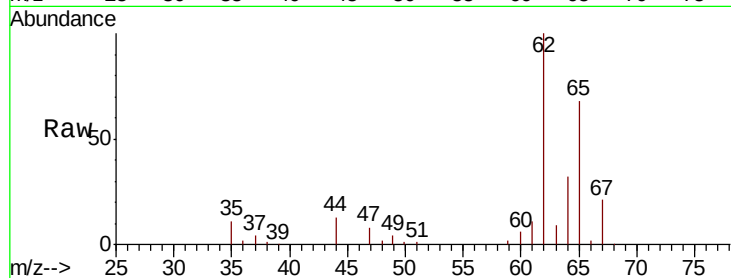
VSTD00572

Tgt Ion: 62 Resp: 30646

Ion Ratio Lower Upper

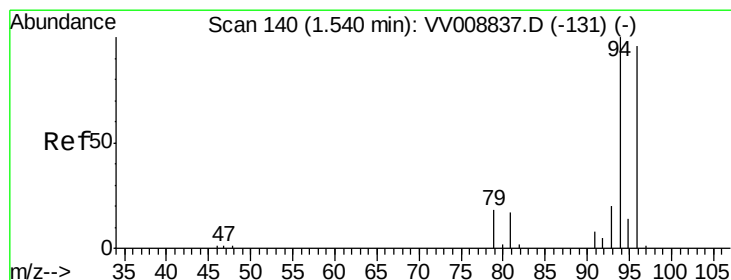
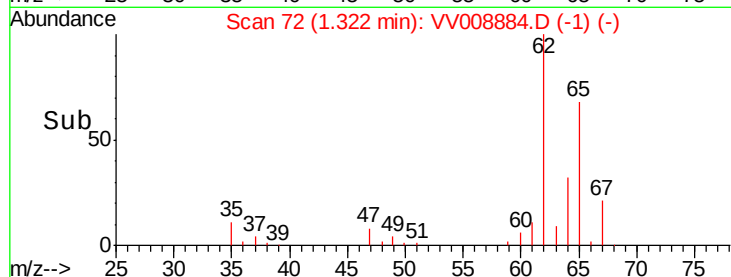
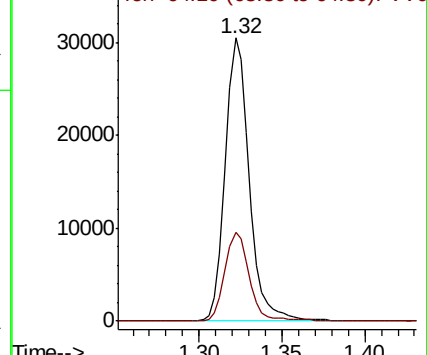
62 100

64 31.6 23.9 44.3



Abundance Ion 62.00 (61.70 to 62.70): VV008837.D (-65) (-)

Ion 64.10 (63.80 to 64.80): VV008837.D (-65) (-)



#6

Bromomethane

Concen: 4.710 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV008884.D

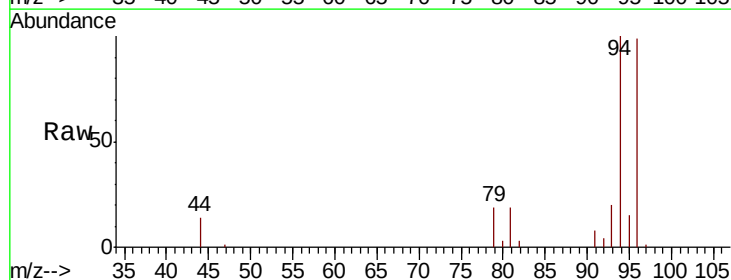
Acq: 07 Dec 2018 18:49

Tgt Ion: 94 Resp: 18440

Ion Ratio Lower Upper

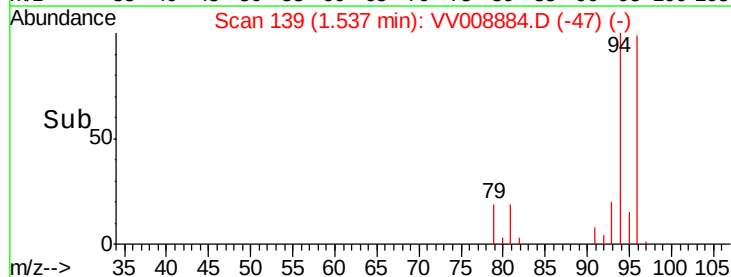
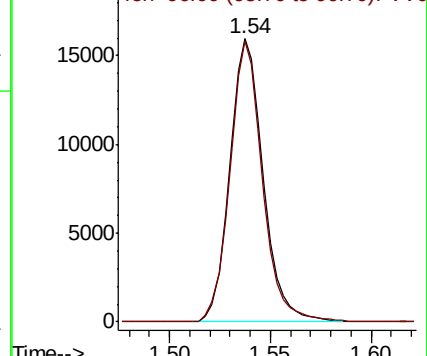
94 100

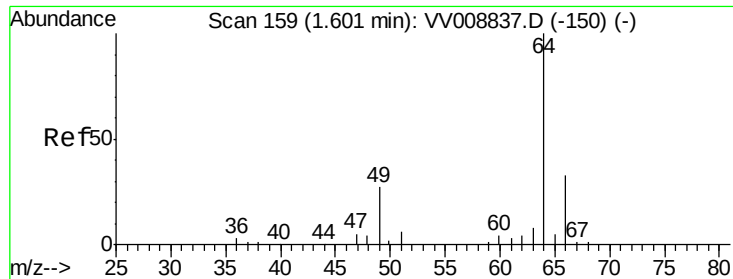
96 99.2 67.0 124.4



Abundance Ion 94.00 (93.70 to 94.70): VV008837.D (-131) (-)

Ion 96.00 (95.70 to 96.70): VV008837.D (-131) (-)





#8

Chloroethane

Concen: 4.488 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

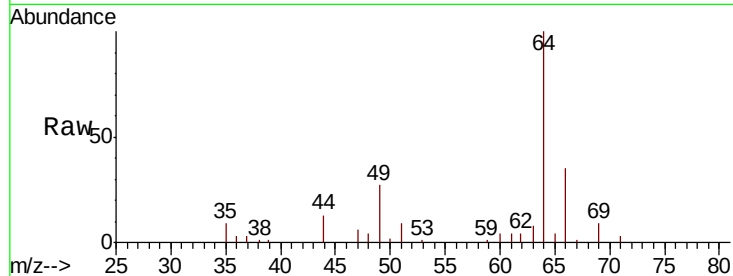
VSTD00572

Tgt Ion: 64 Resp: 16840

Ion Ratio Lower Upper

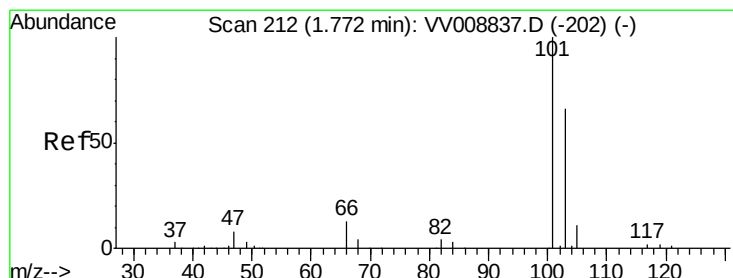
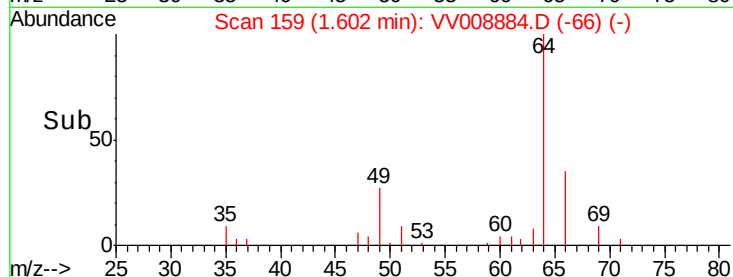
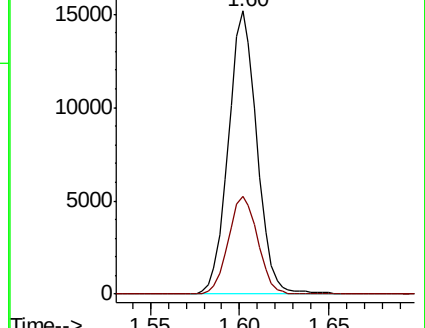
64 100

66 34.6 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: 4.794 ug/L

RT: 1.77 min Scan# 212

Delta R.T. 0.00 min

Lab File: VV008884.D

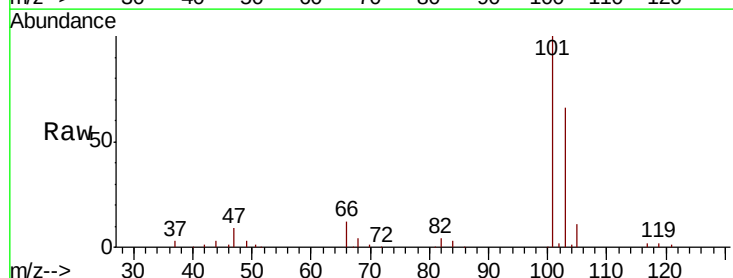
Acq: 07 Dec 2018 18:49

Tgt Ion: 101 Resp: 51600

Ion Ratio Lower Upper

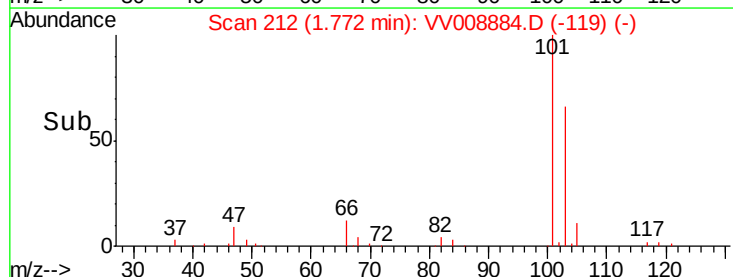
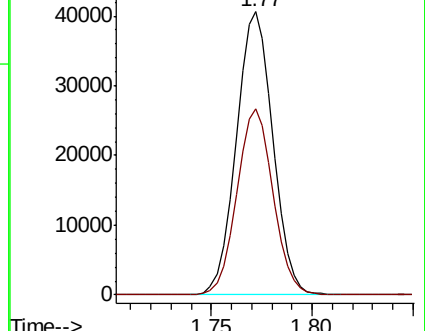
101 100

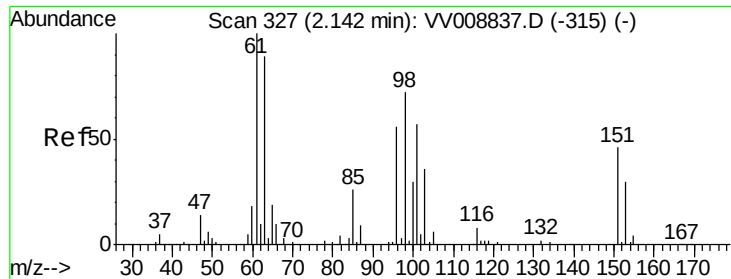
103 64.7 52.5 78.7



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: 5.518 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

VSTD00572

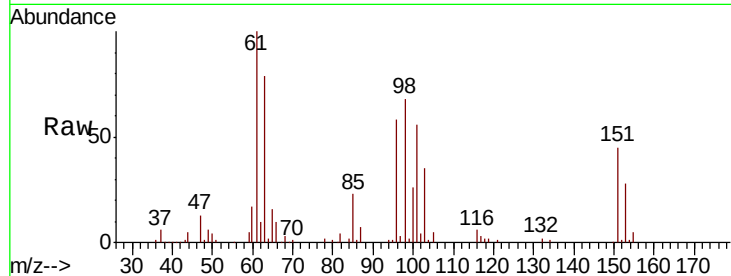
Tgt Ion:101 Resp: 32315

Ion Ratio Lower Upper

101 100

85 43.1 35.0 52.6

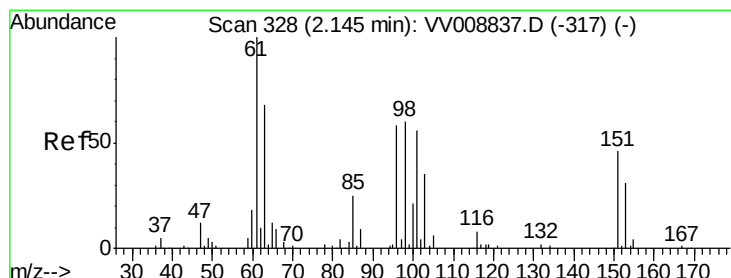
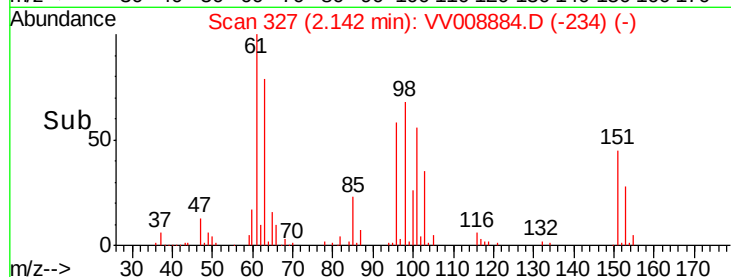
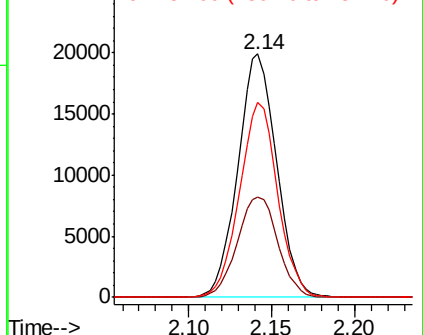
151 78.7 65.1 97.7



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: 5.820 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

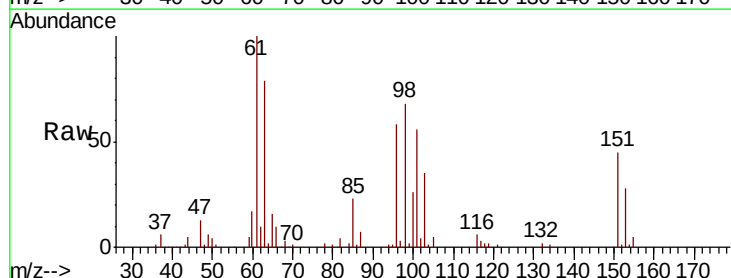
Tgt Ion: 96 Resp: 29696

Ion Ratio Lower Upper

96 100

61 171.9 120.8 224.4

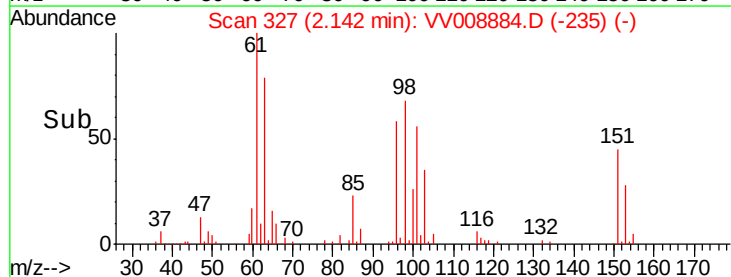
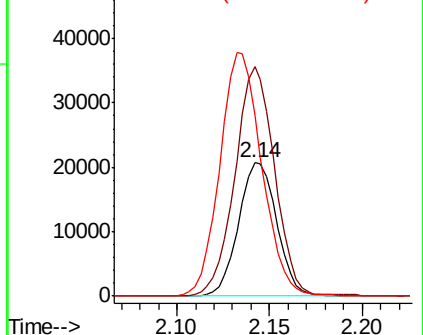
63 136.0 85.0 158.0

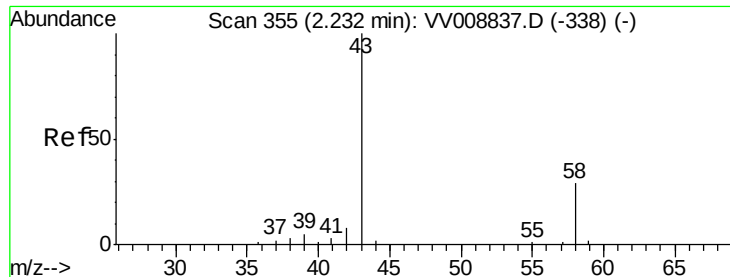


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 59.154 ug/L

RT: 2.23 min Scan# 355

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

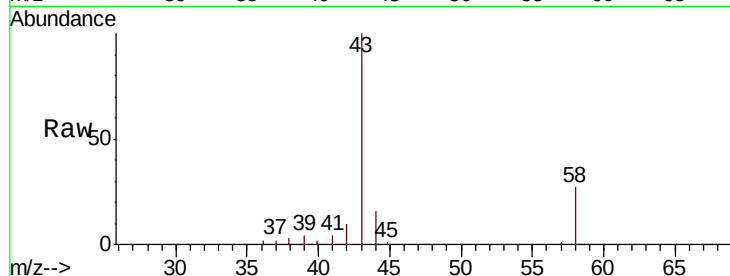
VSTD00572

Tgt Ion: 43 Resp: 45163

Ion Ratio Lower Upper

43 100

58 25.6 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) (-)

2.23

12000

10000

8000

6000

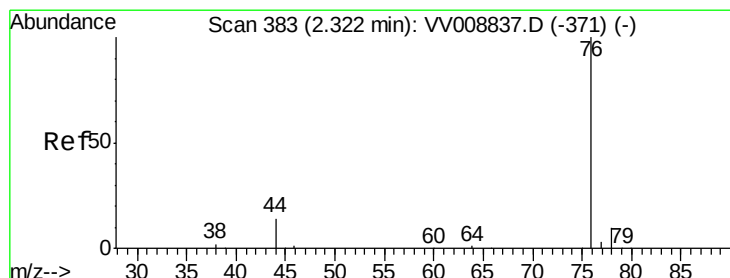
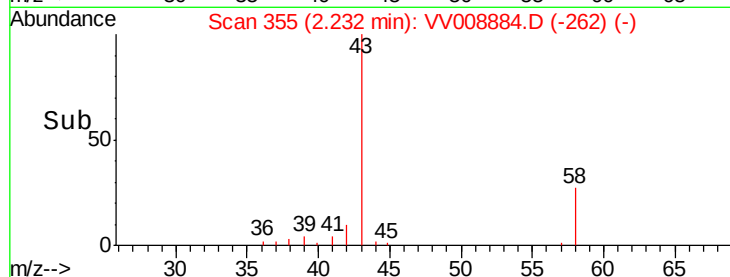
4000

2000

0

Time-->

2.10 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 5.635 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV008884.D

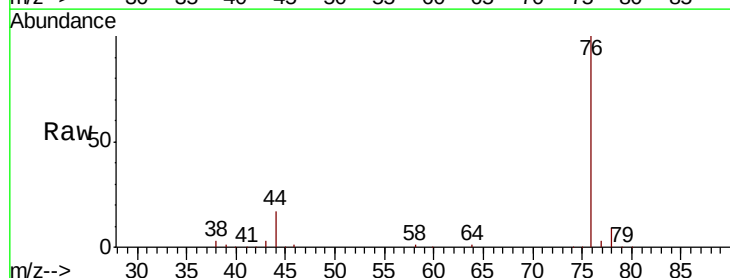
Acq: 07 Dec 2018 18:49

Tgt Ion: 76 Resp: 86516

Ion Ratio Lower Upper

76 100

78 9.4 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

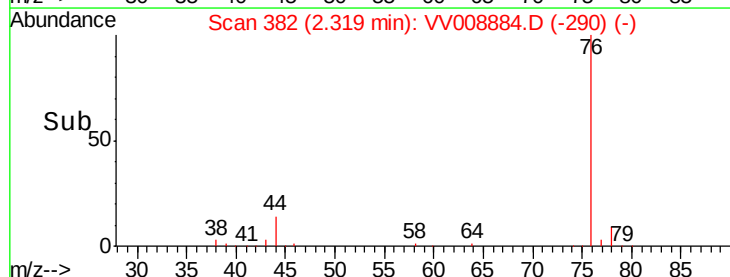
40000

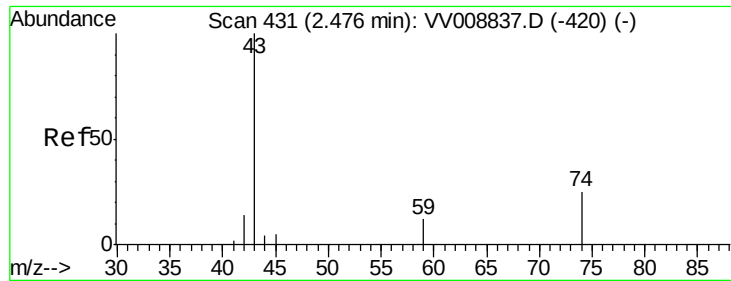
20000

0

Time-->

2.25 2.30 2.35 2.40





#15

Methyl Acetate

Concen: 6.797 ug/L

RT: 2.47 min Scan# 430

Delta R.T. -0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

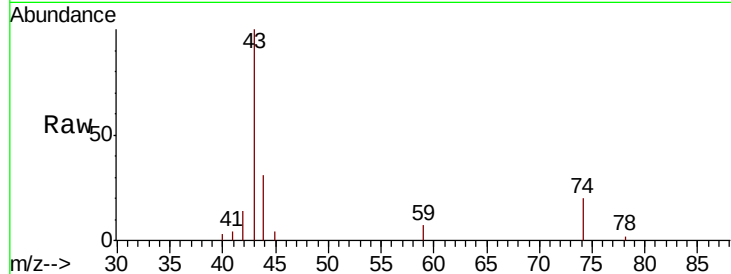
VSTD00572

Tgt Ion: 43 Resp: 11463

Ion Ratio Lower Upper

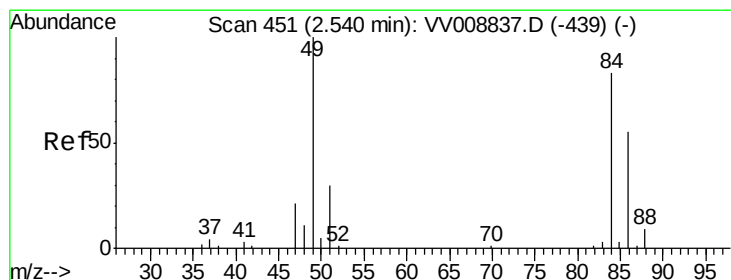
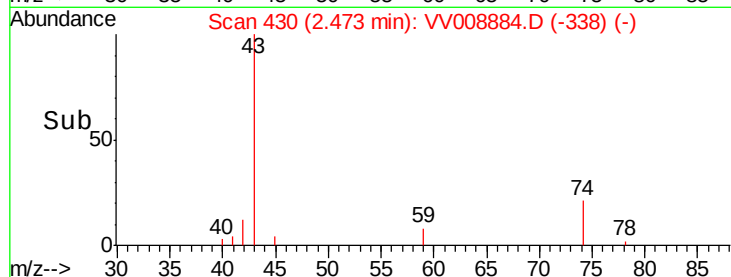
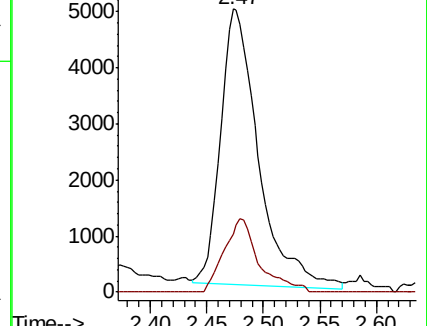
43 100

74 24.6 21.8 32.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 5.641 ug/L

RT: 2.54 min Scan# 451

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

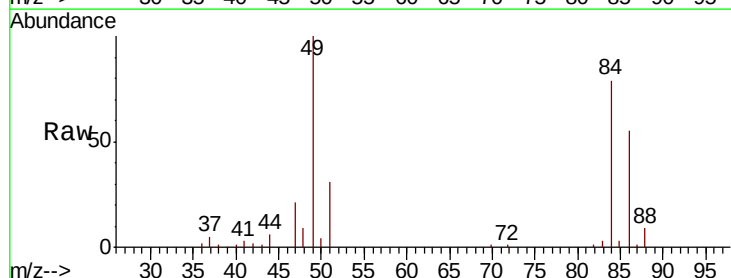
Tgt Ion: 84 Resp: 31086

Ion Ratio Lower Upper

84 100

86 69.2 46.7 86.7

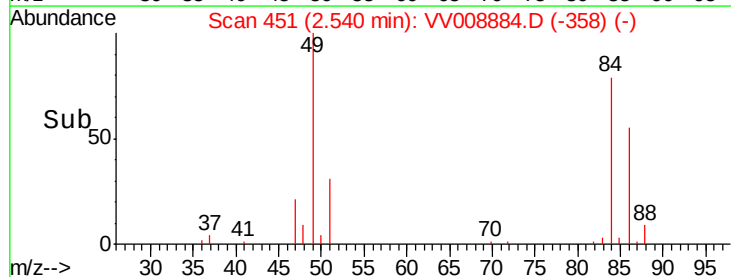
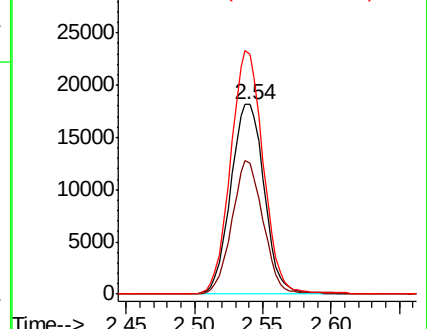
49 126.6 84.8 157.4

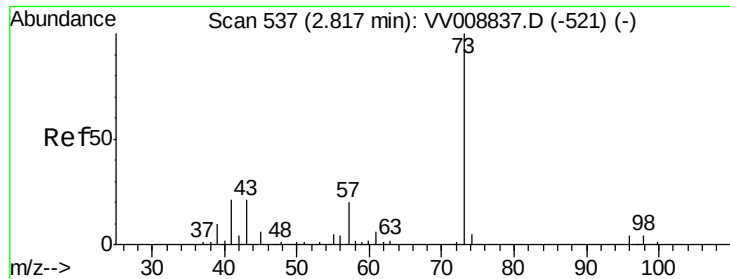


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

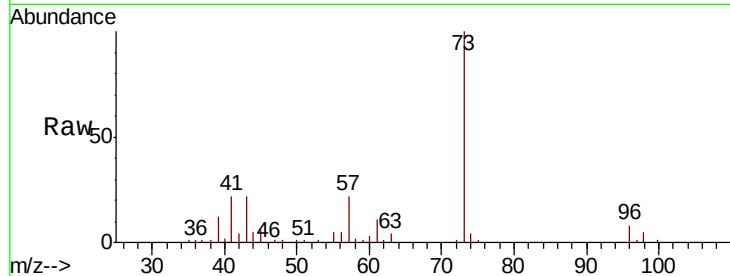




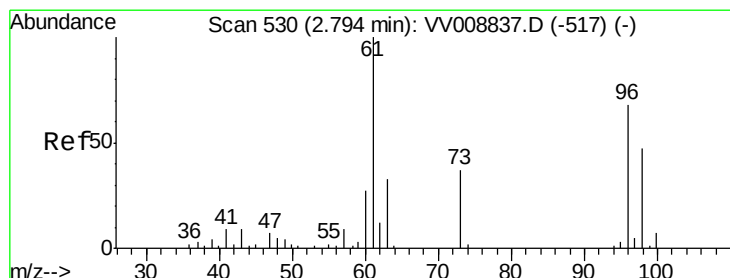
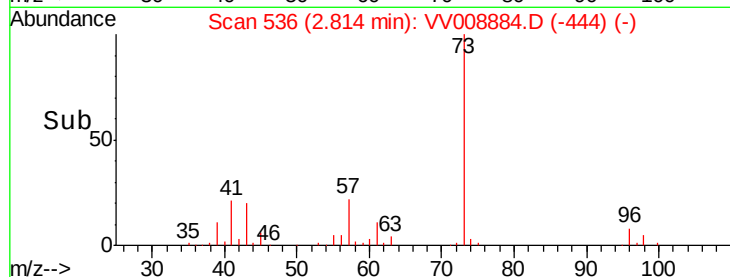
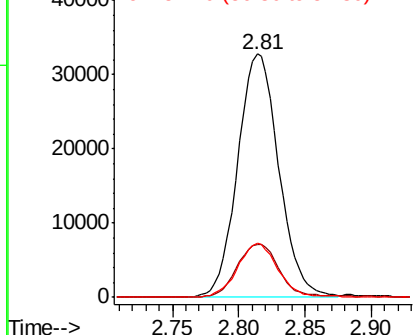
#17
Methyl tert-butyl Ether
Concen: 5.666 ug/L
RT: 2.81 min Scan# 536
Delta R.T. -0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

Instrument :
MSVOA_V
ClientSampleId :
VSTD00572

Tgt Ion: 73 Resp: 70979
Ion Ratio Lower Upper
73 100
43 22.4 17.3 25.9
57 21.9 16.8 25.2

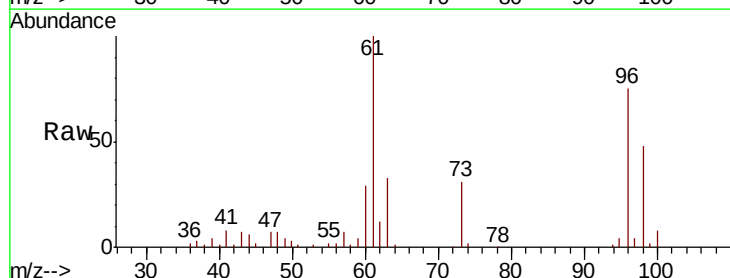


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

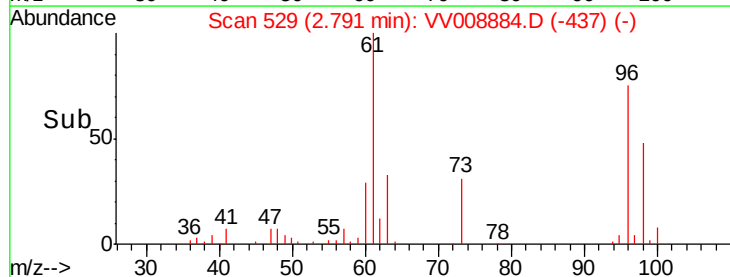
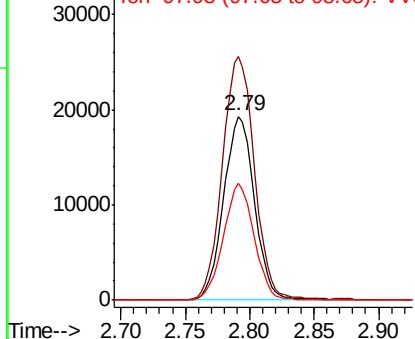


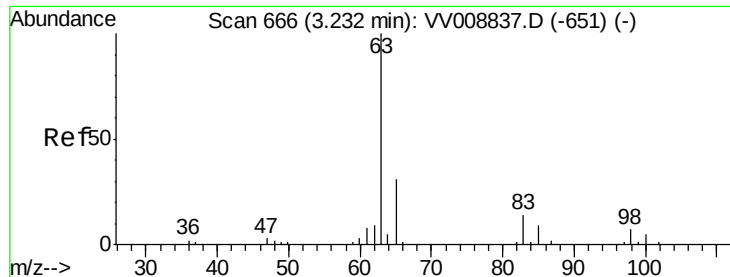
#18
trans-1,2-Dichloroethene
Concen: 5.757 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

Tgt Ion: 96 Resp: 32104
Ion Ratio Lower Upper
96 100
61 132.6 103.0 191.4
98 63.4 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

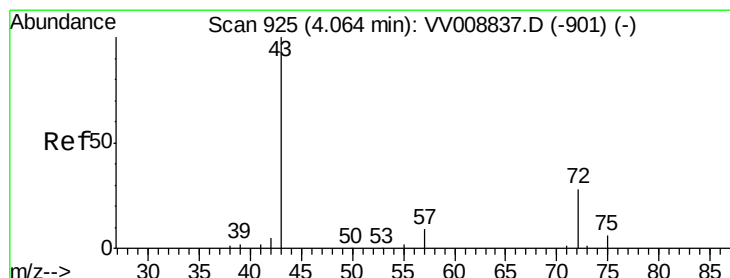
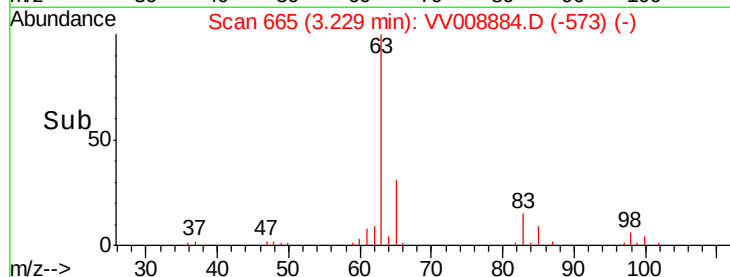
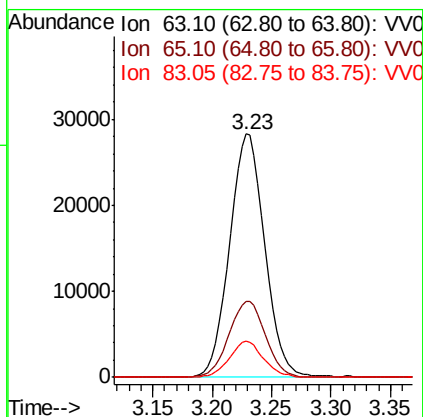
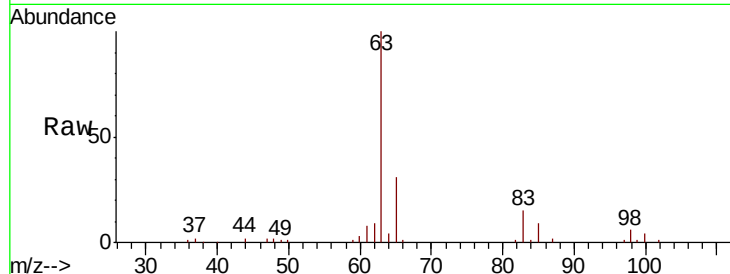




#19
 1,1-Dichloroethane
 Concen: 4.755 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

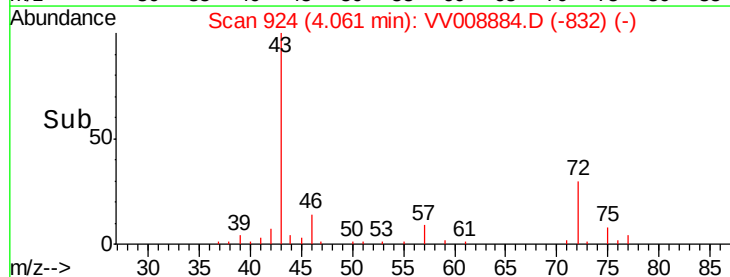
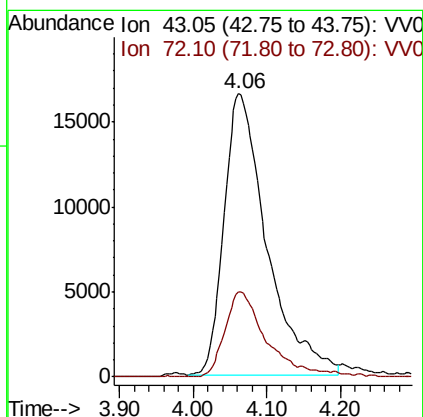
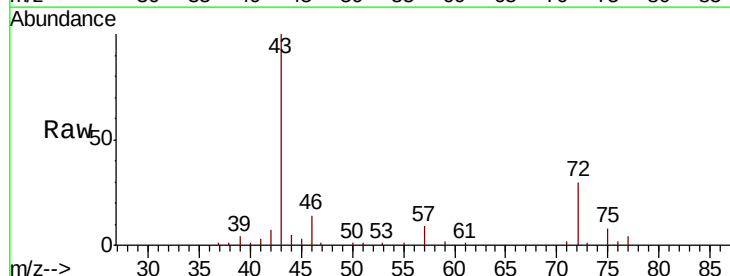
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00572

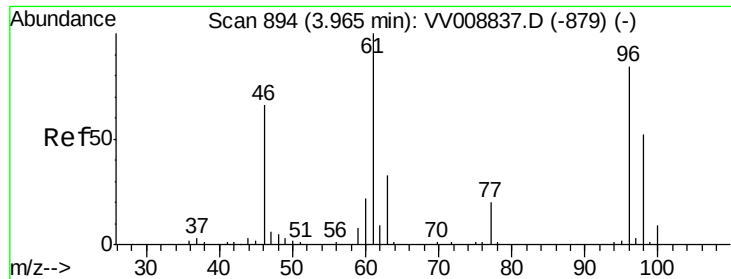
Tgt Ion: 63 Resp: 57954
 Ion Ratio Lower Upper
 63 100
 65 31.1 22.0 40.8
 83 14.9 10.1 18.7



#21
 2-Butanone
 Concen: 46.488 ug/L
 RT: 4.06 min Scan# 924
 Delta R.T. -0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

Tgt Ion: 43 Resp: 66655
 Ion Ratio Lower Upper
 43 100
 72 27.4 13.7 41.1



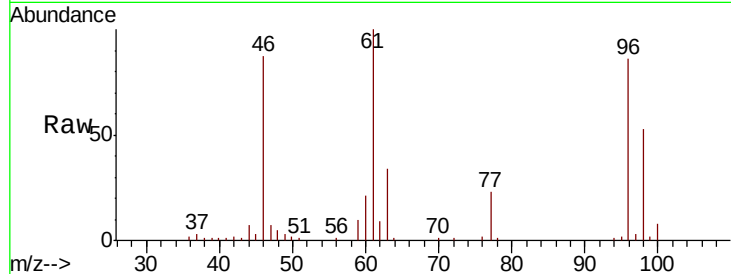


#22

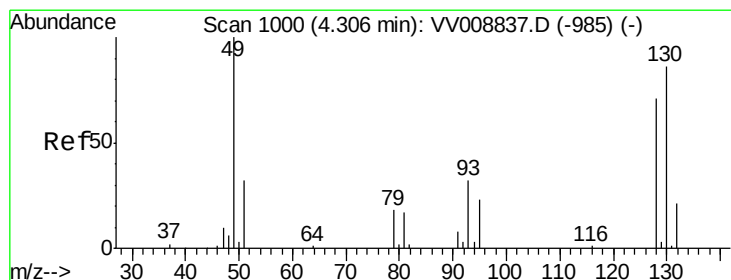
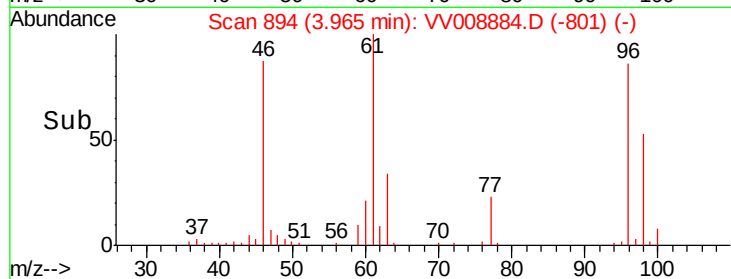
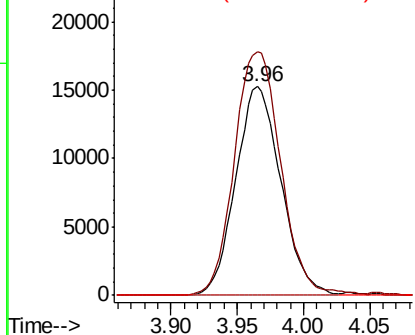
cis-1,2-Dichloroethene
Concen: 4.757 ug/L
RT: 3.96 min Scan# 894
Delta R.T. 0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

Instrument :
MSVOA_V
ClientSampleId :
VSTD00572

Tgt Ion: 96 Resp: 36320
Ion Ratio Lower Upper
96 100
61 116.7 83.2 154.6
68 0.0 0.0 0.0



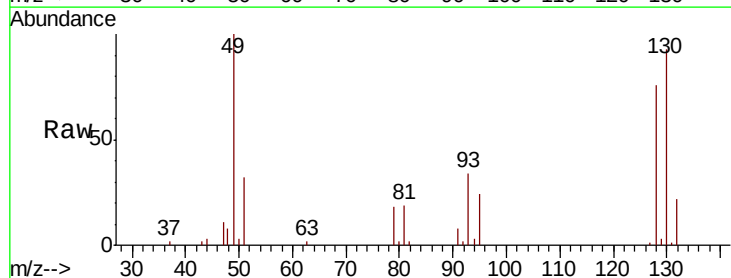
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



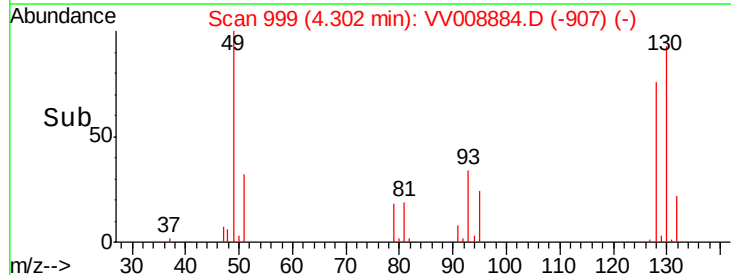
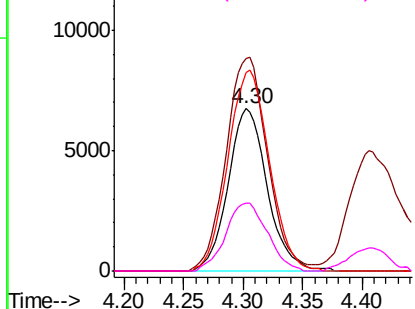
#23

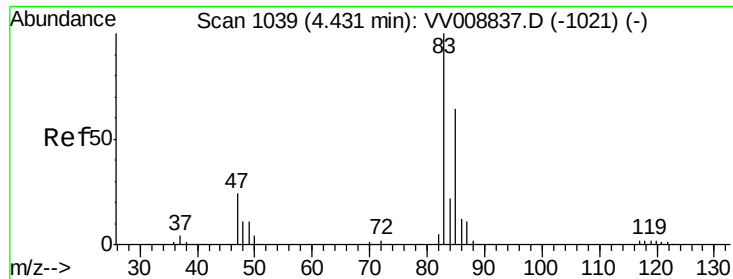
Bromochloromethane
Concen: 4.773 ug/L
RT: 4.30 min Scan# 999
Delta R.T. -0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

Tgt Ion: 128 Resp: 15414
Ion Ratio Lower Upper
128 100
49 130.8 98.1 182.3
130 121.9 84.2 156.4
51 41.9 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

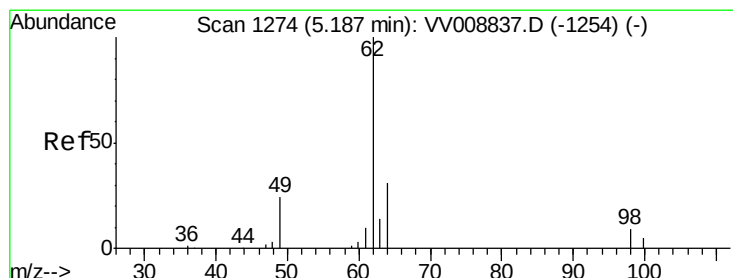
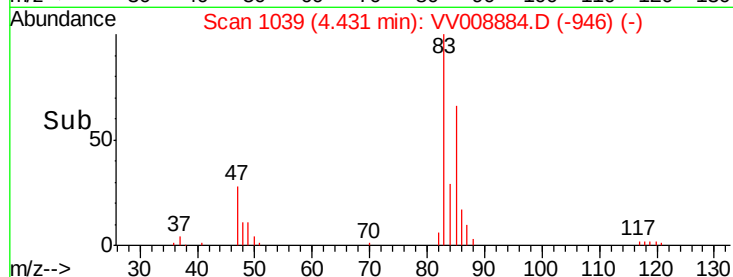
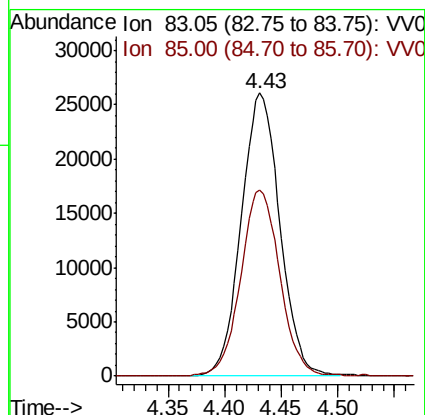
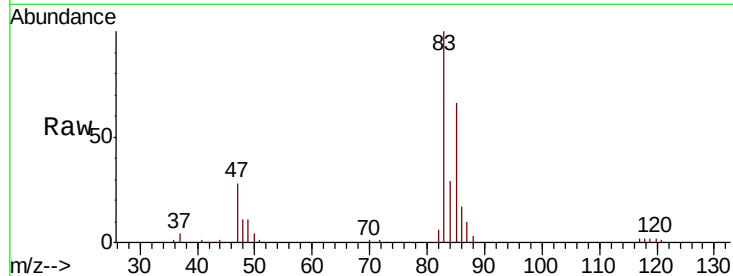




#25
Chloroform
Concen: 4.696 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. 0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

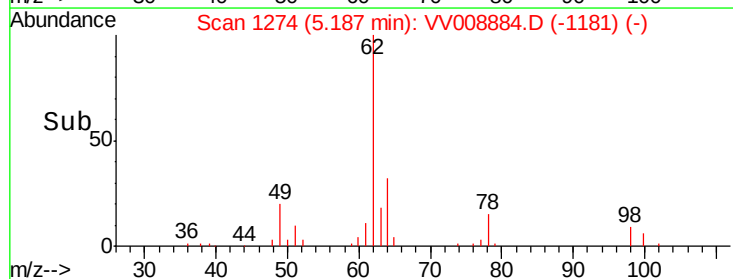
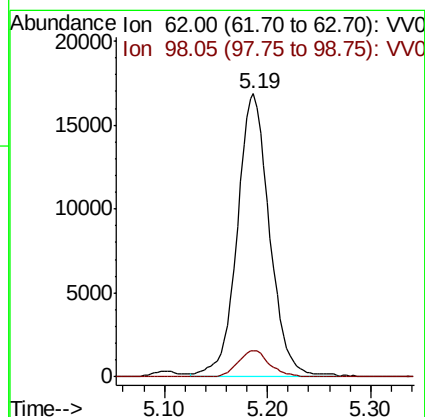
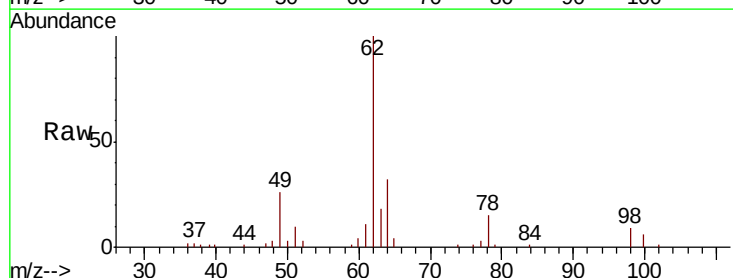
Instrument :
MSVOA_V
ClientSampleId :
VSTD00572

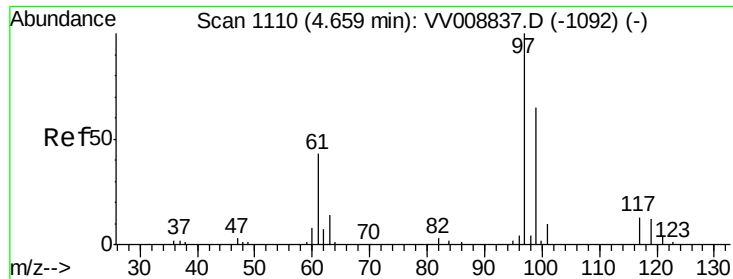
Tgt Ion: 83 Resp: 62041
Ion Ratio Lower Upper
83 100
85 65.6 44.9 83.5



#27
1,2-Dichloroethane
Concen: 4.896 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

Tgt Ion: 62 Resp: 36916
Ion Ratio Lower Upper
62 100
98 9.4 7.3 10.9

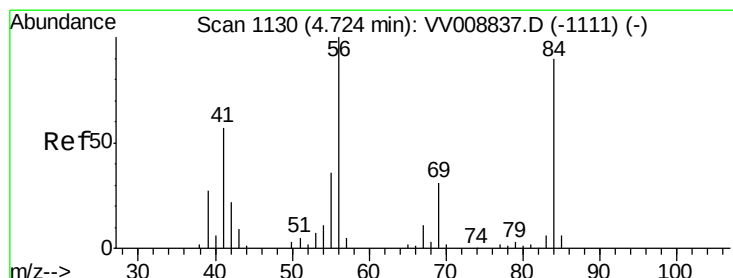
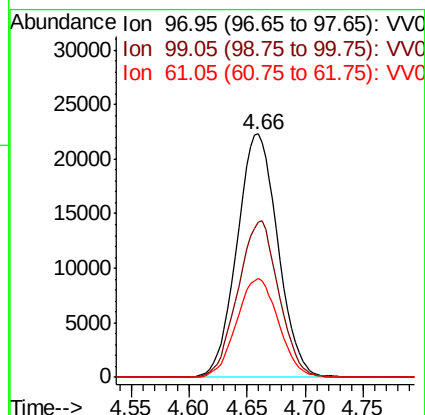
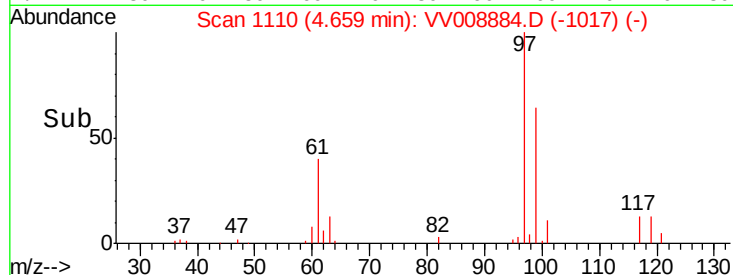
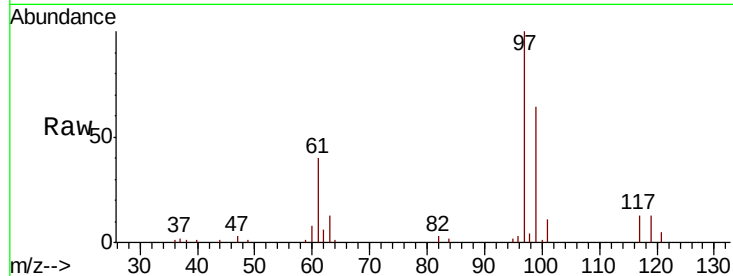




#29
 1,1,1-Trichloroethane
 Concen: 4.819 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

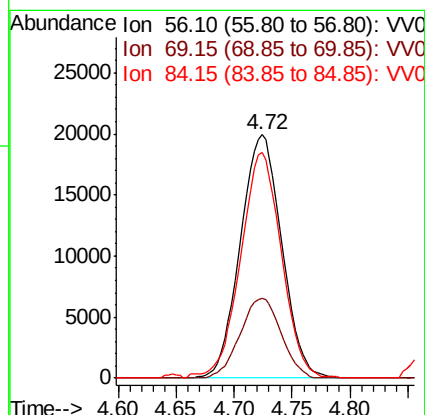
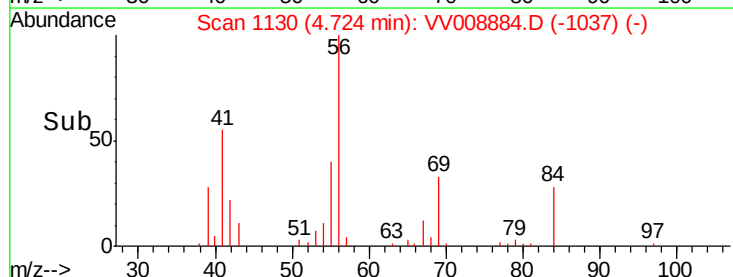
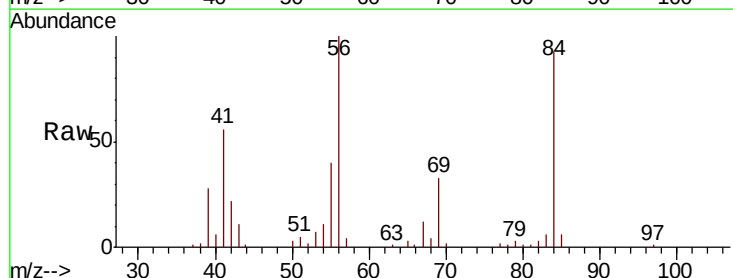
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00572

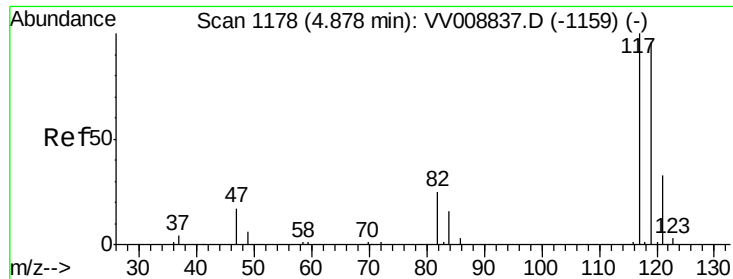
Tgt Ion: 97 Resp: 54581
 Ion Ratio Lower Upper
 97 100
 99 64.1 50.7 76.1
 61 41.5 34.0 51.0



#30
 Cyclohexane
 Concen: 4.555 ug/L
 RT: 4.72 min Scan# 1130
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

Tgt Ion: 56 Resp: 49581
 Ion Ratio Lower Upper
 56 100
 69 32.4 25.4 38.2
 84 91.3 72.2 108.2





#31

Carbon tetrachloride

Concen: 4.777 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

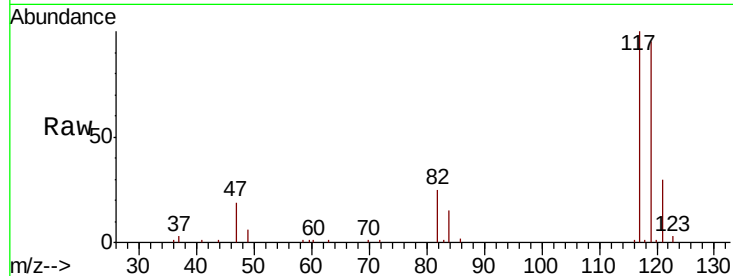
VSTD00572

Tgt Ion:117 Resp: 48705

Ion Ratio Lower Upper

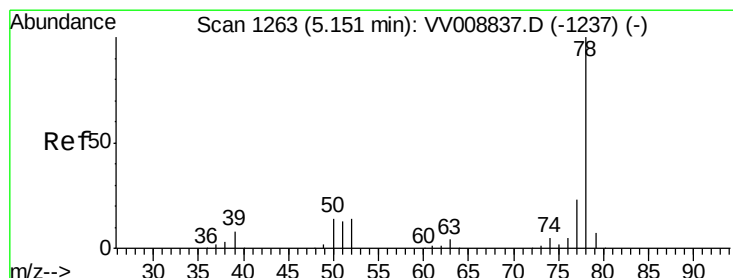
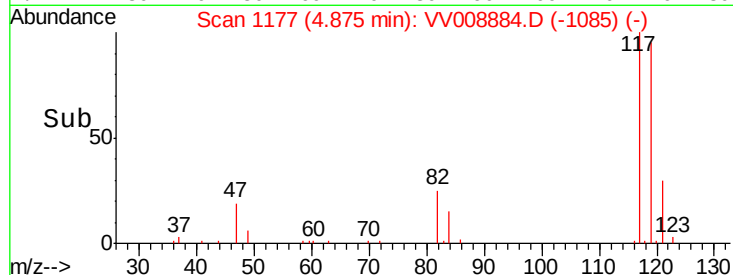
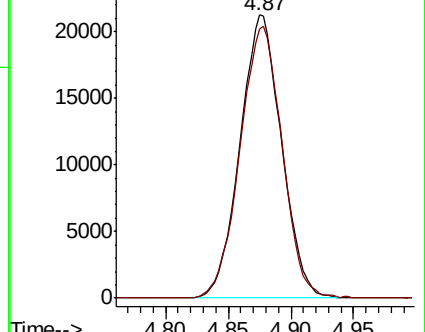
117 100

119 97.6 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: 4.793 ug/L

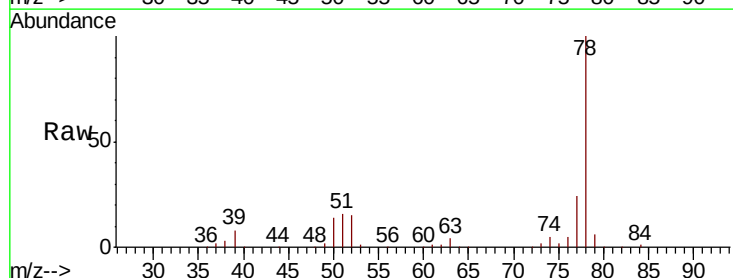
RT: 5.15 min Scan# 1262

Delta R.T. -0.00 min

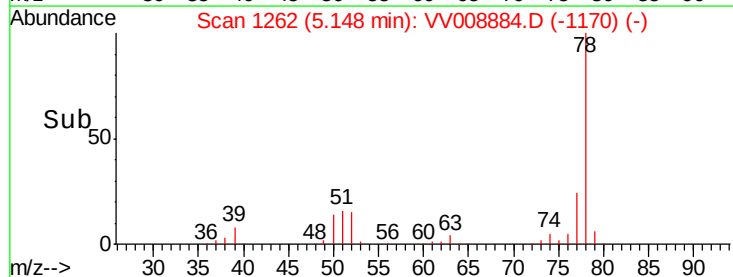
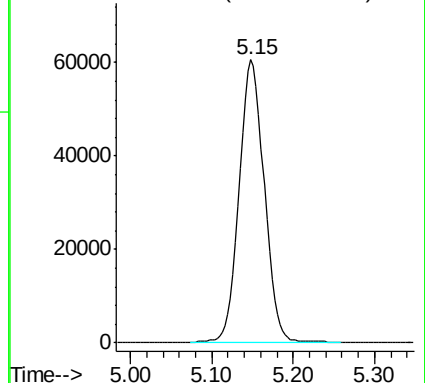
Lab File: VV008884.D

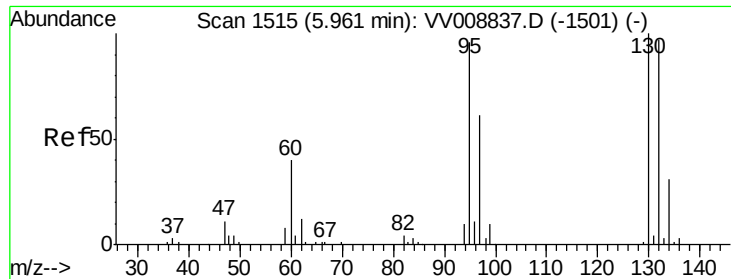
Acq: 07 Dec 2018 18:49

Tgt Ion: 78 Resp: 130328



Abundance Ion 78.10 (77.80 to 78.80): VV0

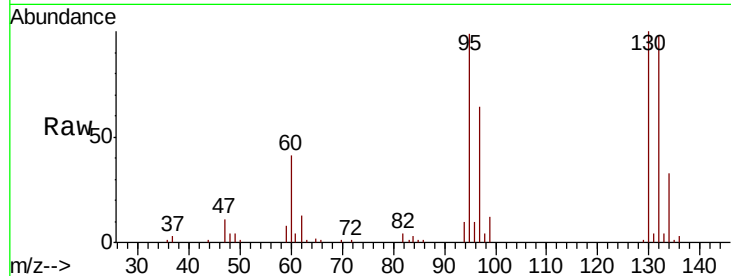




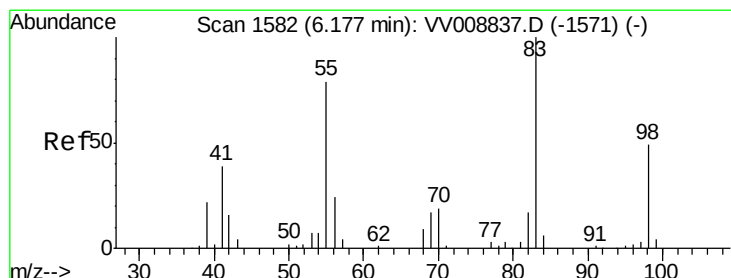
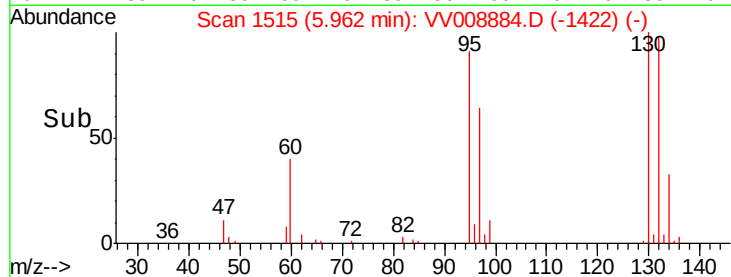
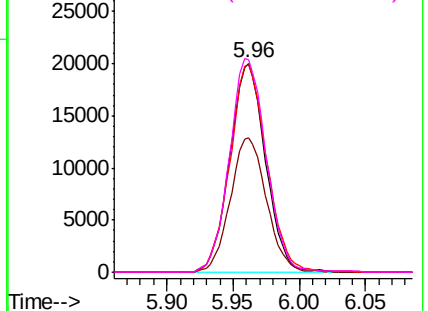
#34
 Trichloroethene
 Concen: 4.747 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00572

Tgt Ion: 95 Resp: 37540
 Ion Ratio Lower Upper
 95 100
 97 64.5 44.4 82.5
 132 99.3 70.7 131.3
 130 101.5 72.9 135.3

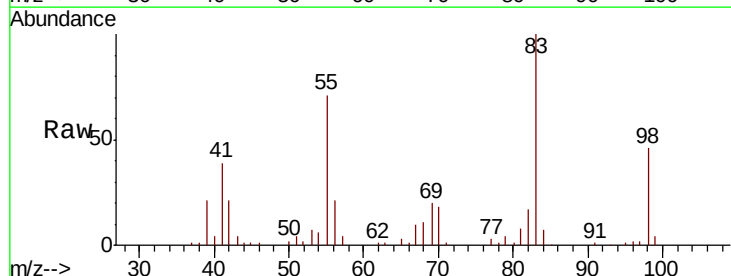


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

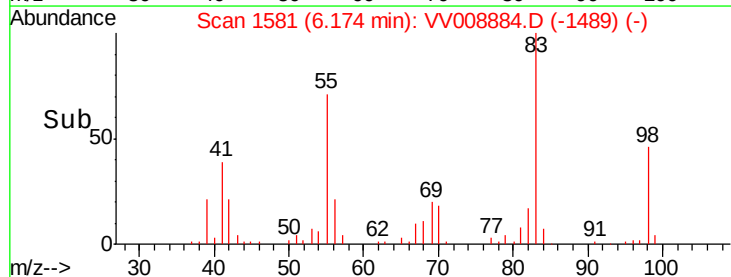
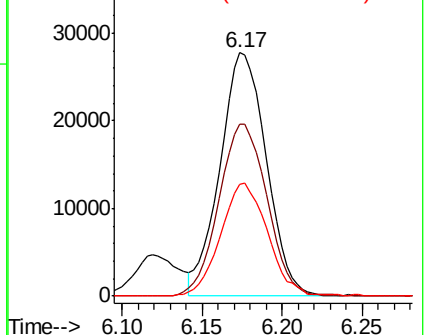


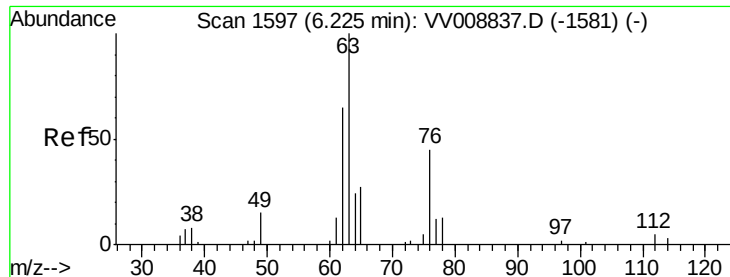
#35
 Methylcyclohexane
 Concen: 4.422 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

Tgt Ion: 83 Resp: 55321
 Ion Ratio Lower Upper
 83 100
 55 73.0 60.0 90.0
 98 47.2 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

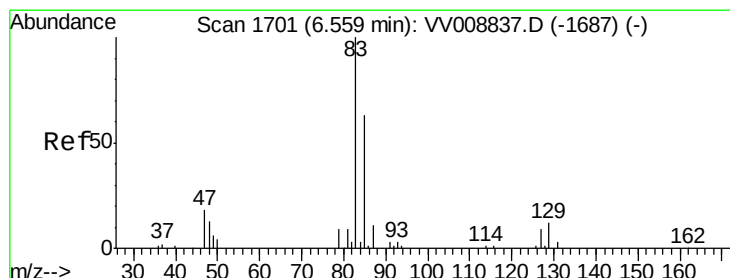
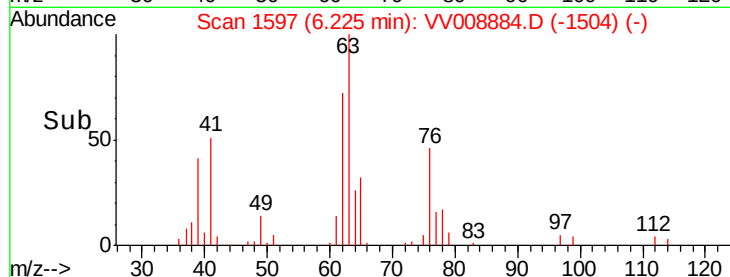
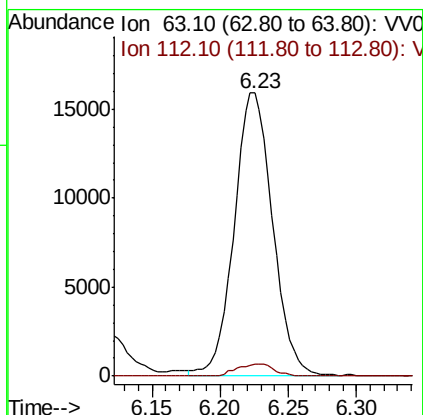
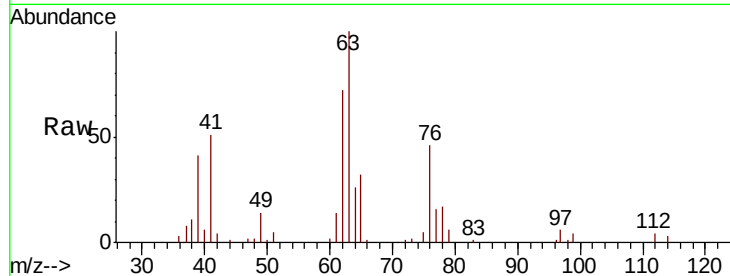




#37
 1,2-Dichloropropane
 Concen: 4.684 ug/L
 RT: 6.23 min Scan# 1597
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

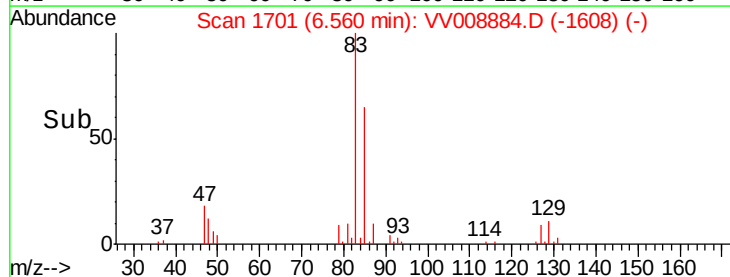
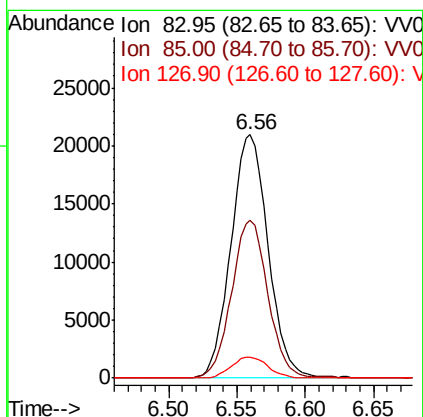
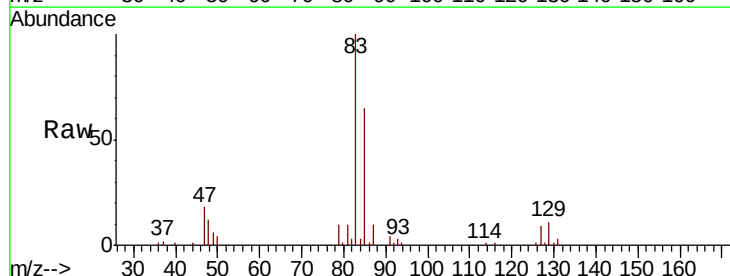
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00572

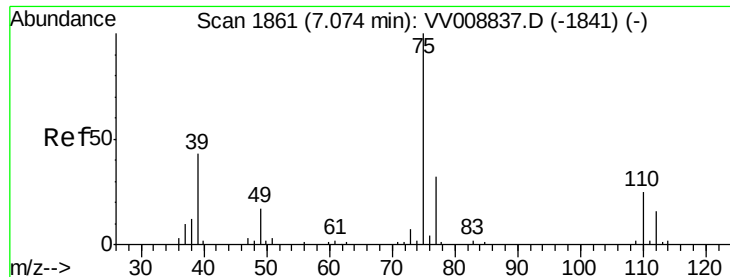
Tgt Ion: 63 Resp: 31214
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.5 5.3



#38
 Bromodichloromethane
 Concen: 4.835 ug/L
 RT: 6.56 min Scan# 1701
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

Tgt Ion: 83 Resp: 39650
 Ion Ratio Lower Upper
 83 100
 85 64.8 44.2 82.0
 127 8.7 7.5 11.3

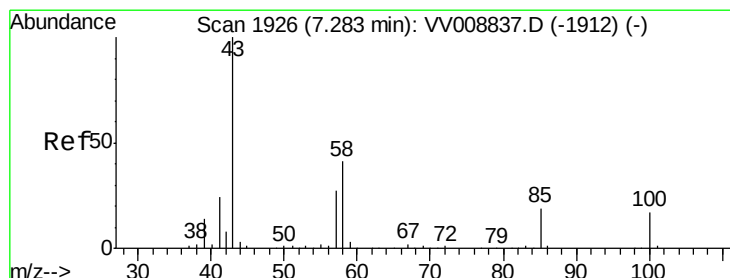
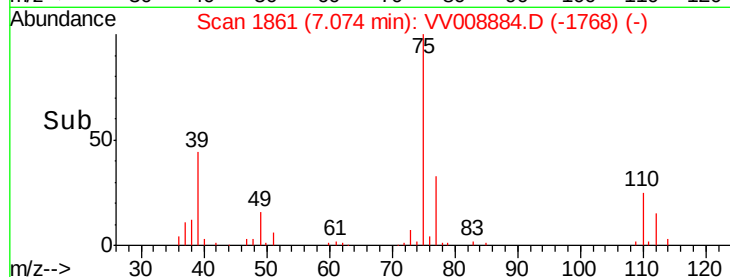
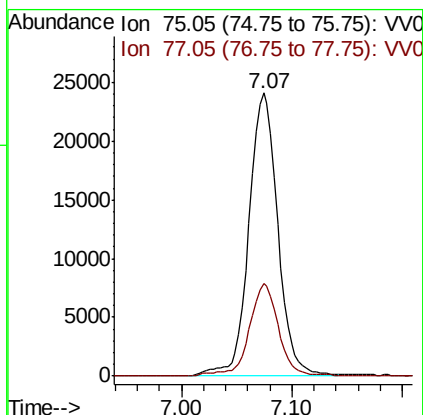
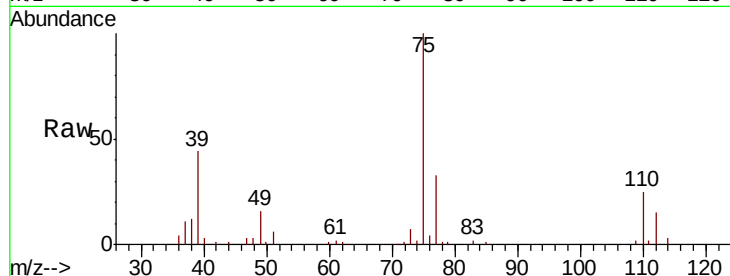




#39
 cis-1,3-Dichloropropene
 Concen: 4.714 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

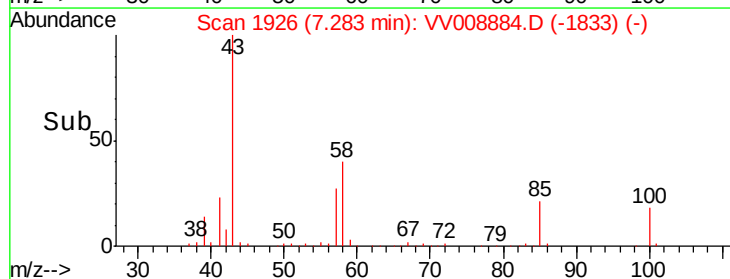
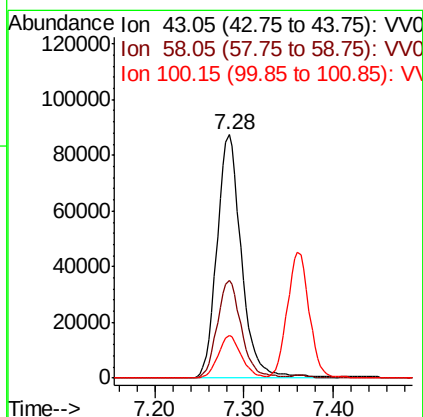
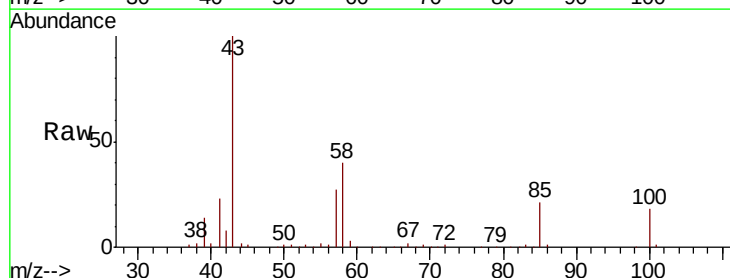
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00572

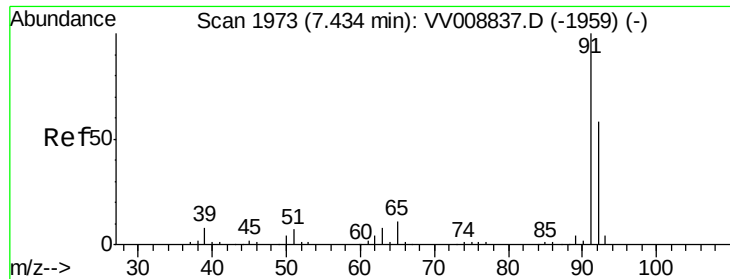
Tgt Ion: 75 Resp: 44026
 Ion Ratio Lower Upper
 75 100
 77 32.8 22.3 41.3



#40
 4-Methyl-2-pentanone
 Concen: 49.191 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

Tgt Ion: 43 Resp: 166282
 Ion Ratio Lower Upper
 43 100
 58 39.5 32.6 48.8
 100 16.7 13.4 20.0





#42

Toluene

Concen: 4.781 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

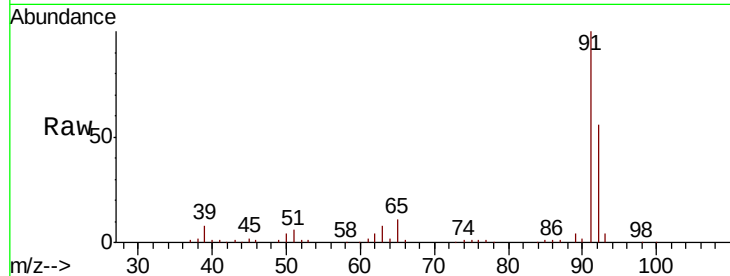
VSTD00572

Tgt Ion: 91 Resp: 140331

Ion Ratio Lower Upper

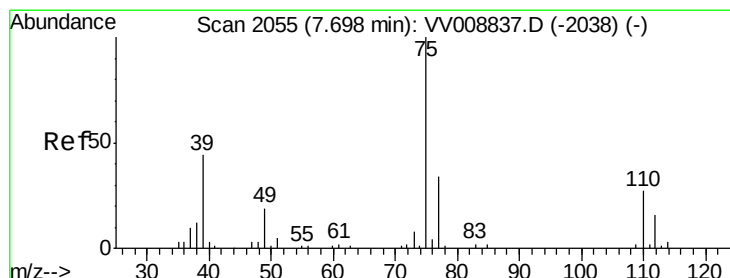
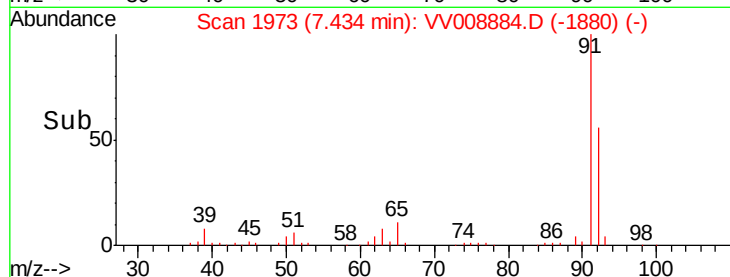
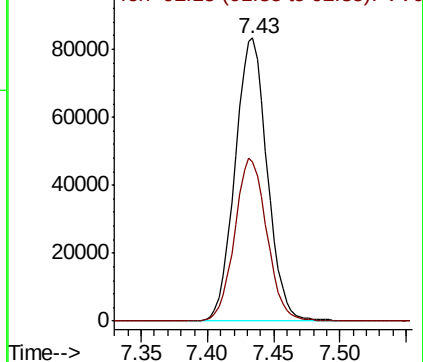
91 100

92 56.3 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 4.911 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. 0.00 min

Lab File: VV008884.D

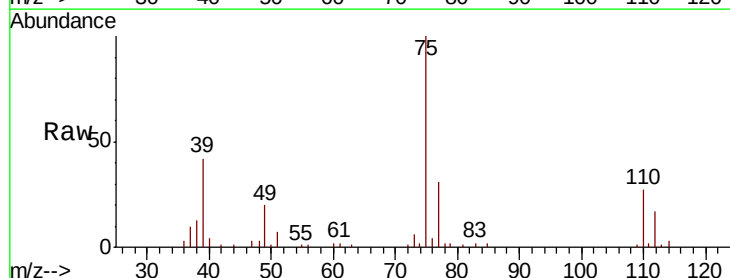
Acq: 07 Dec 2018 18:49

Tgt Ion: 75 Resp: 35575

Ion Ratio Lower Upper

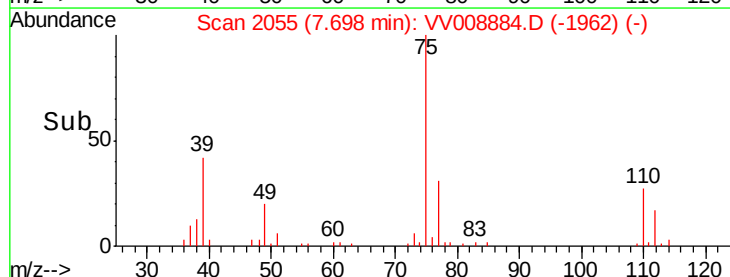
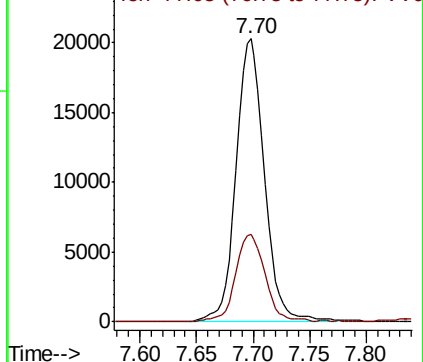
75 100

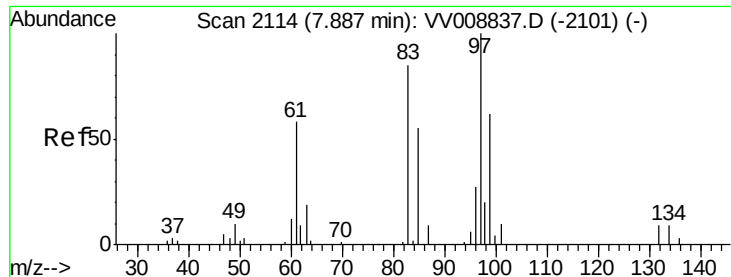
77 30.8 23.6 43.8



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

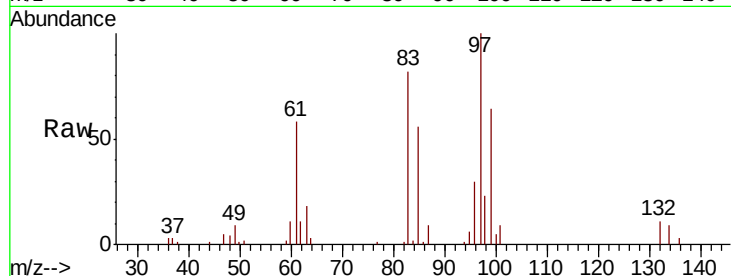




#45
 1,1,2-Trichloroethane
 Concen: 4.852 ug/L
 RT: 7.89 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00572

Tgt Ion:	97	Resp:	22703
Ion	Ratio	Lower	Upper
97	100		
99	64.2	43.3	80.3
83	82.0	59.4	110.2
85	55.8	38.5	71.5



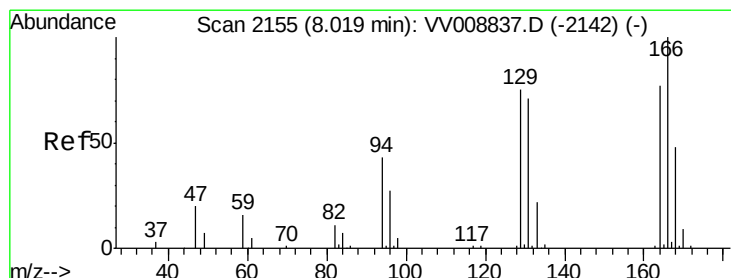
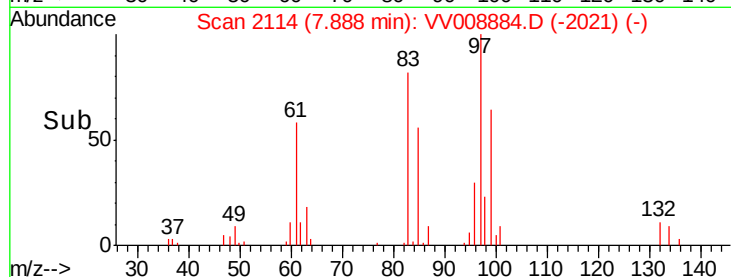
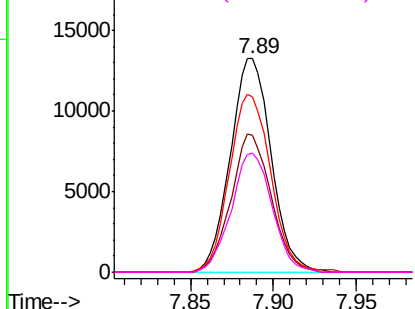
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

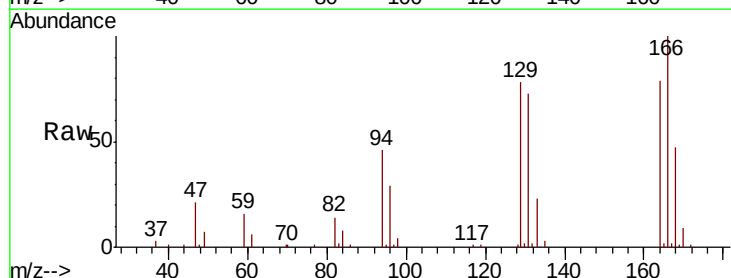
Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47
 Tetrachloroethene
 Concen: 4.790 ug/L
 RT: 8.02 min Scan# 2155
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

Tgt Ion:	164	Resp:	30395
Ion	Ratio	Lower	Upper
164	100		
129	97.6	68.8	127.8
131	92.1	64.8	120.4
166	125.9	91.5	169.9



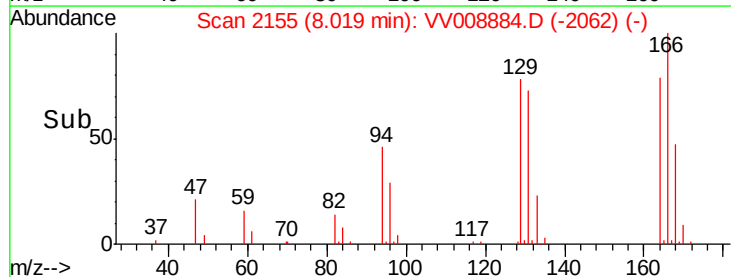
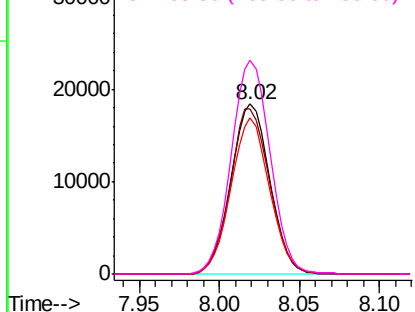
Abundance

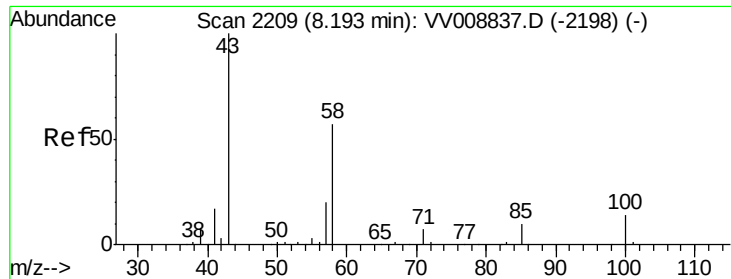
Ion 163.90 (163.60 to 164.60): V

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

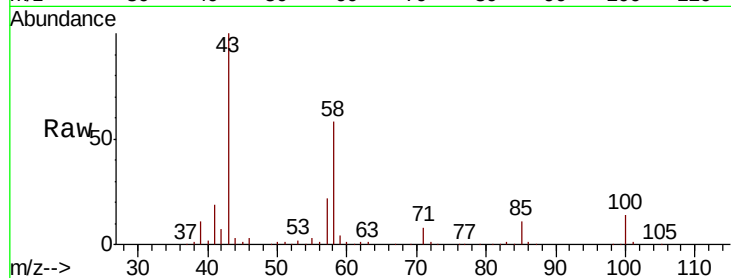




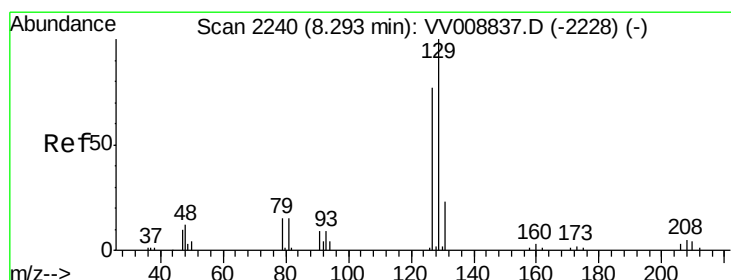
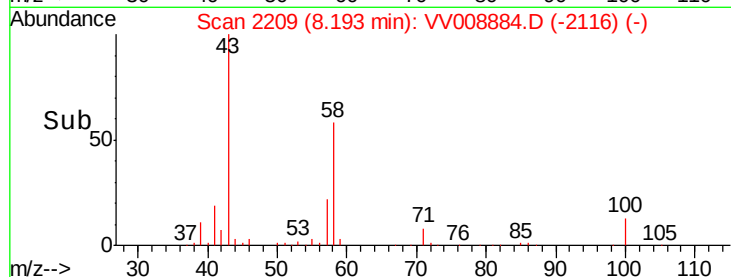
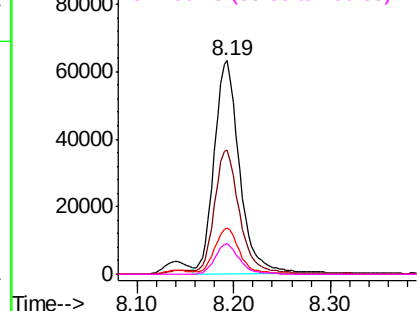
#48
2-Hexanone
Concen: 48.646 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

Instrument :
MSVOA_V
ClientSampleId :
VSTD00572

Tgt Ion: 43 Resp: 115919
Ion Ratio Lower Upper
43 100
58 56.5 44.4 66.6
57 21.2 15.8 23.8
100 13.7 10.9 16.3

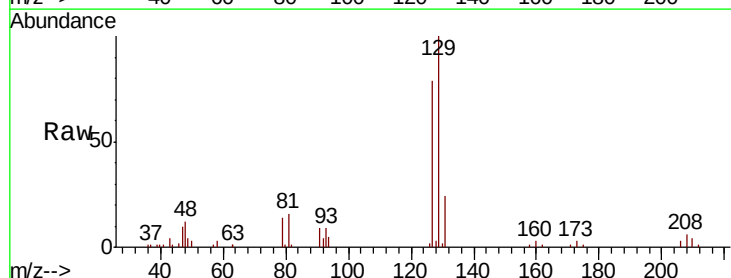


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

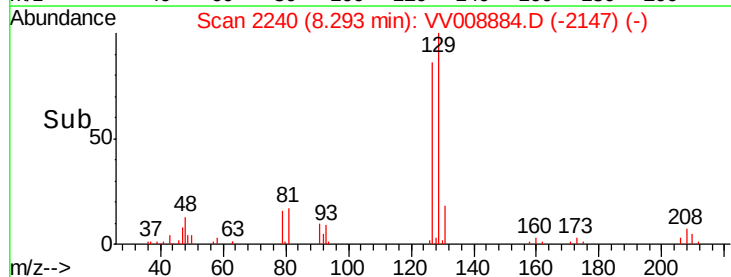
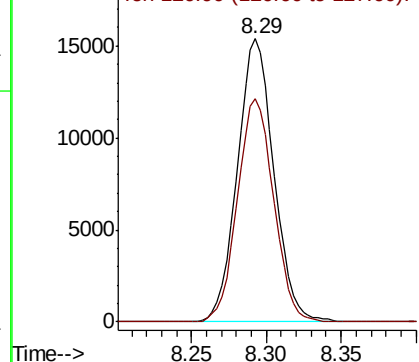


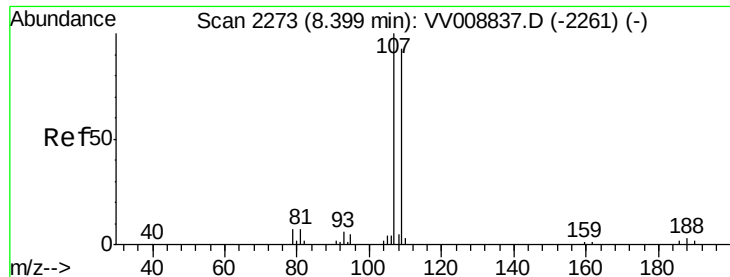
#49
Dibromochloromethane
Concen: 4.775 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

Tgt Ion: 129 Resp: 26131
Ion Ratio Lower Upper
129 100
127 78.8 54.0 100.4



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

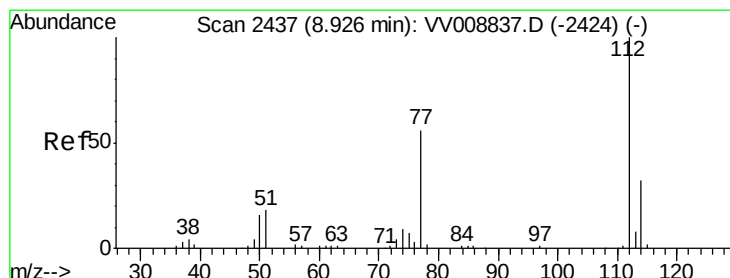
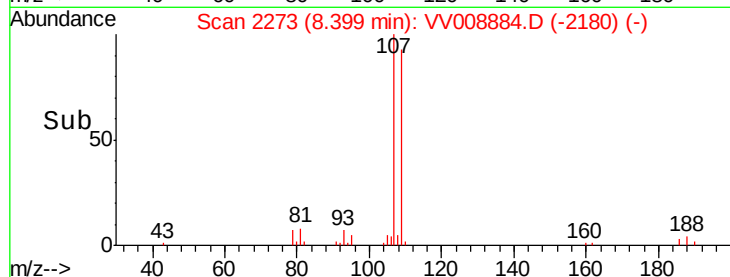
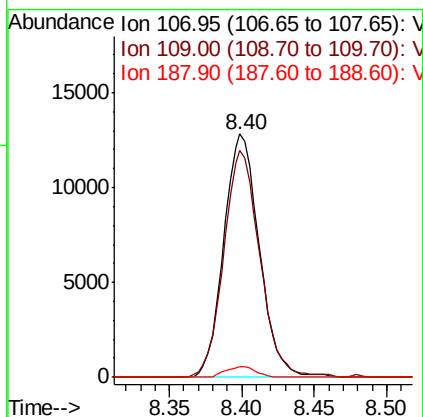
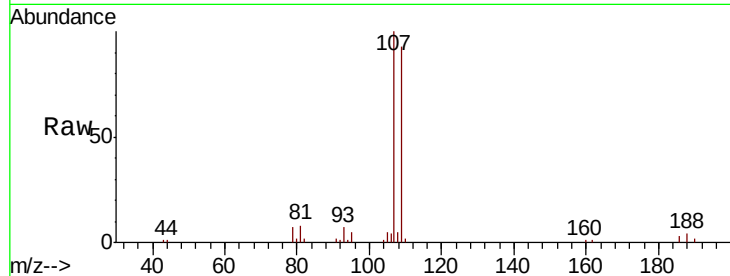




#50
1,2-Dibromoethane
Concen: 4.976 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

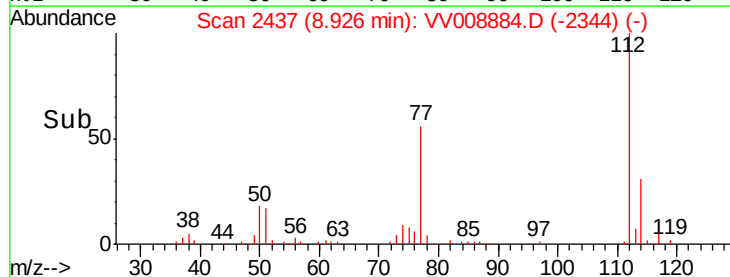
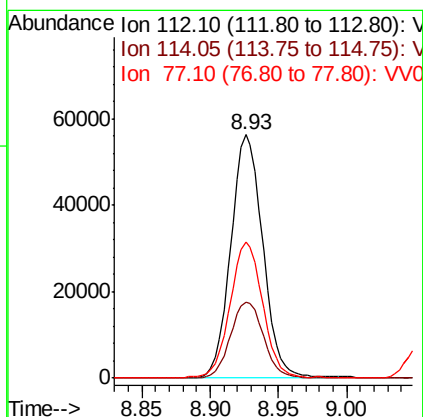
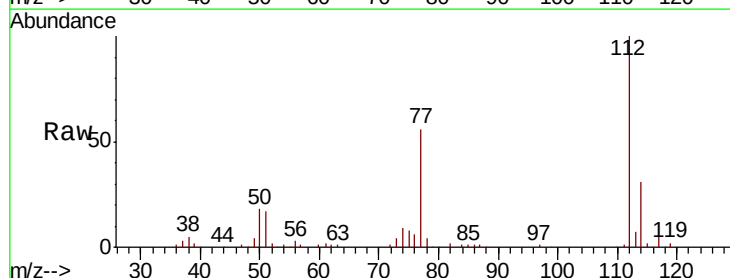
Instrument :
MSVOA_V
ClientSampleId :
VSTD00572

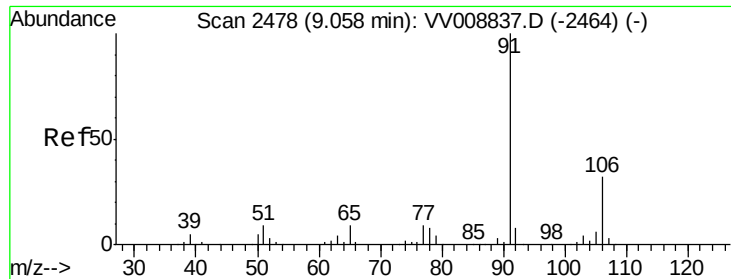
Tgt Ion:107 Resp: 21815
Ion Ratio Lower Upper
107 100
109 93.1 65.3 121.3
188 4.5 2.5 3.7#



#51
Chlorobenzene
Concen: 4.761 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

Tgt Ion:112 Resp: 91941
Ion Ratio Lower Upper
112 100
114 31.3 22.3 41.5
77 55.8 45.2 67.8





#52

Ethylbenzene

Concen: 4.691 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

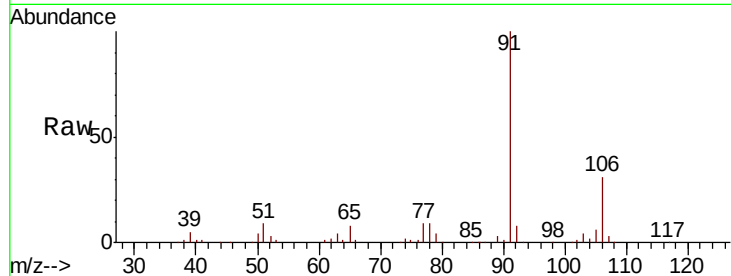
VSTD00572

Tgt Ion: 91 Resp: 150327

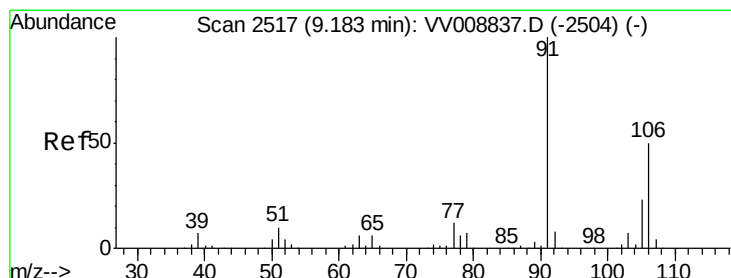
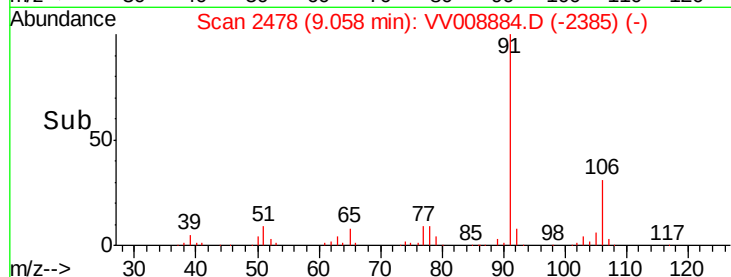
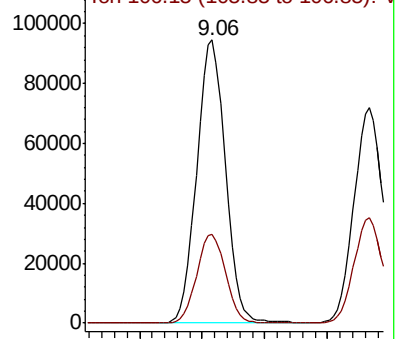
Ion Ratio Lower Upper

91 100

106 31.5 22.1 41.1



Abundance Ion 91.15 (90.85 to 91.85): VV008884.D (-2385) (-)



#53

m,p-xylene

Concen: 4.689 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV008884.D

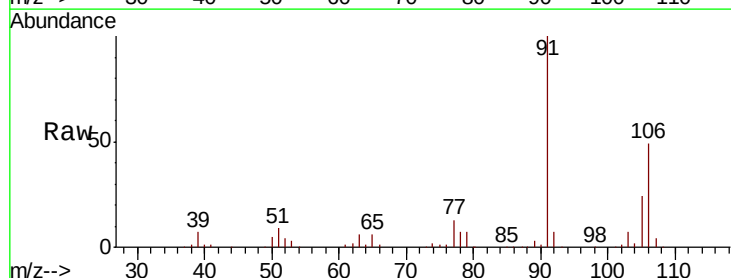
Acq: 07 Dec 2018 18:49

Tgt Ion: 106 Resp: 57404

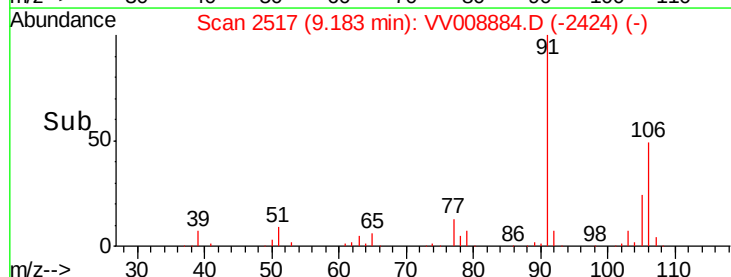
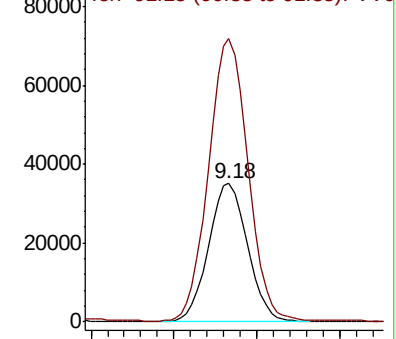
Ion Ratio Lower Upper

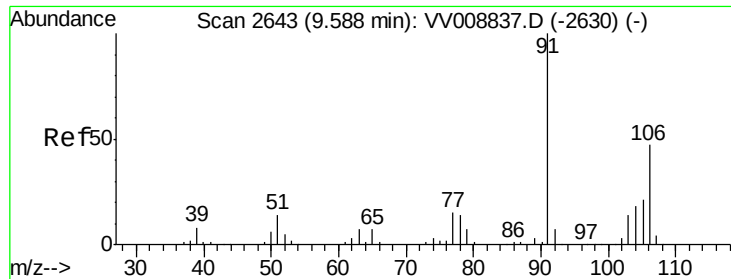
106 100

91 204.3 141.9 263.5



Abundance Ion 106.15 (105.85 to 106.85): VV008884.D (-2424) (-)

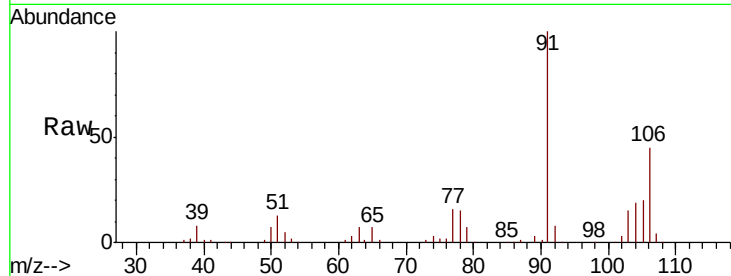




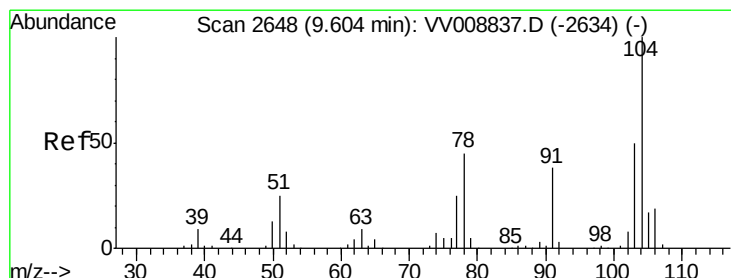
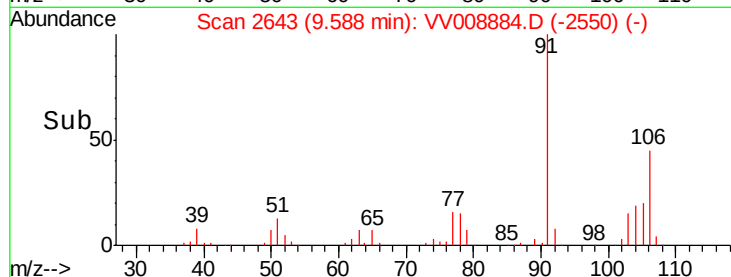
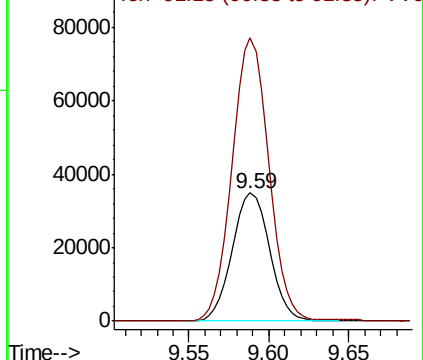
#54
o-xylene
Concen: 4.772 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

Instrument :
MSVOA_V
ClientSampleId :
VSTD00572

Tgt Ion:106 Resp: 55719
Ion Ratio Lower Upper
106 100
91 221.0 149.0 276.6

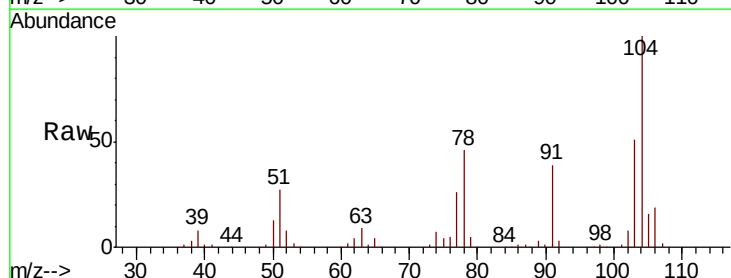


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

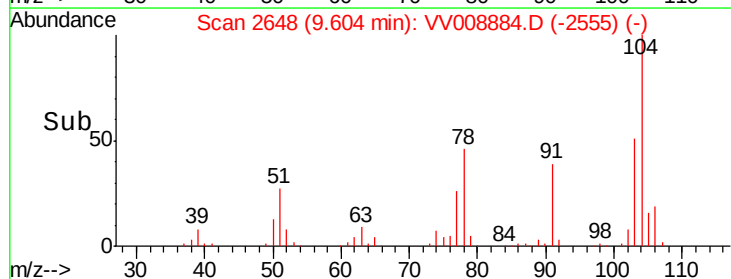
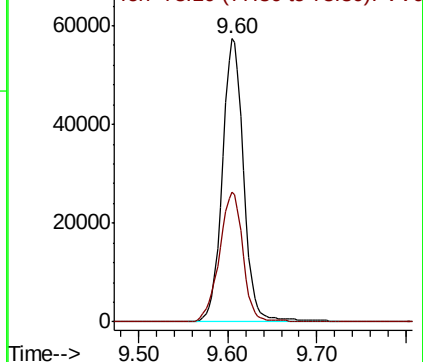


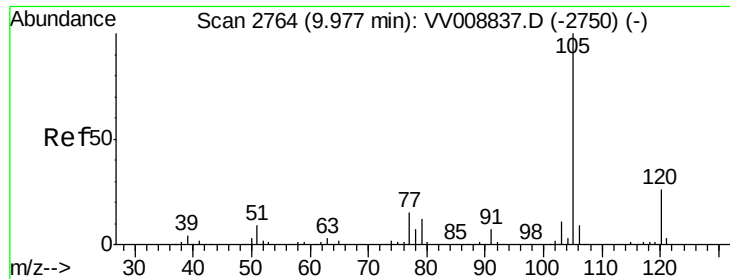
#55
Styrene
Concen: 4.913 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV008884.D
Acq: 07 Dec 2018 18:49

Tgt Ion:104 Resp: 94884
Ion Ratio Lower Upper
104 100
78 46.0 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: 4.782 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

VSTD00572

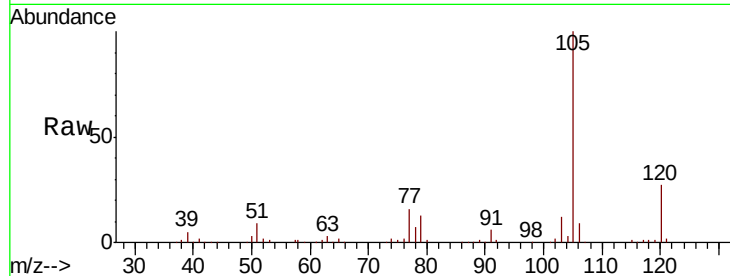
Tgt Ion: 105 Resp: 151063

Ion Ratio Lower Upper

105 100

120 26.9 21.2 31.8

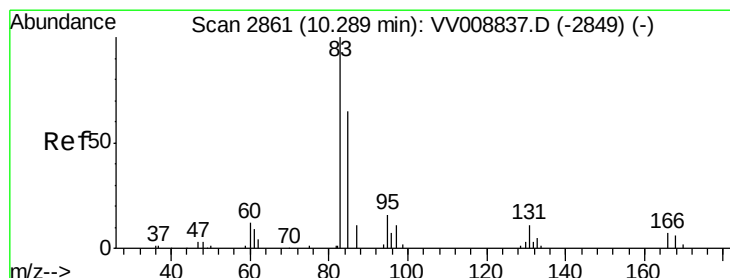
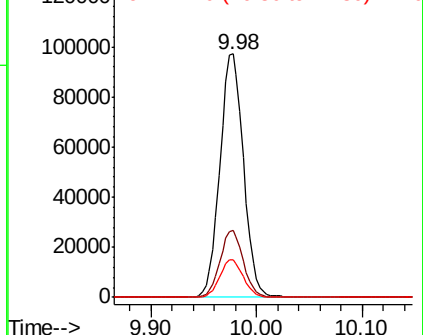
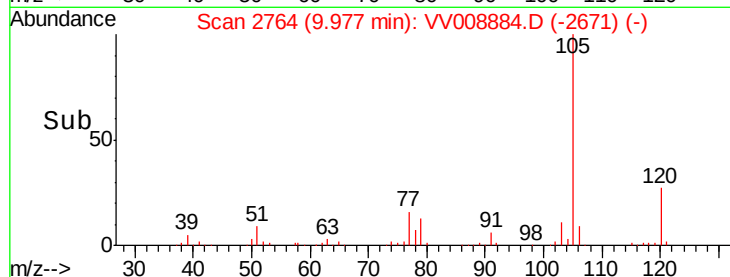
77 15.5 12.4 18.6



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: 4.967 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

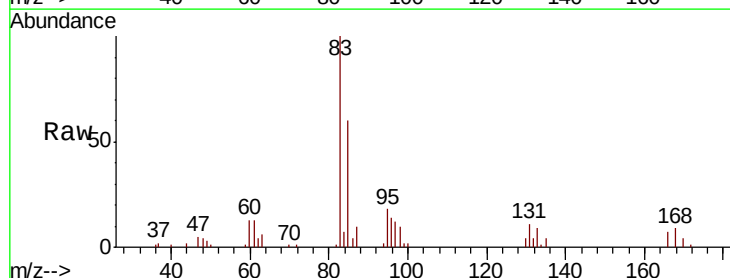
Tgt Ion: 83 Resp: 23452

Ion Ratio Lower Upper

83 100

85 59.6 45.8 85.0

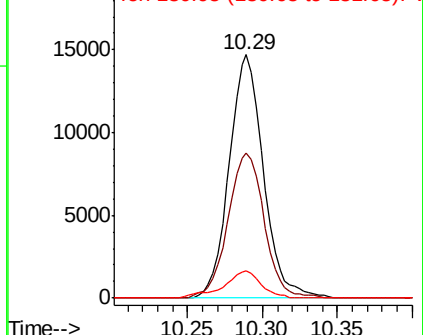
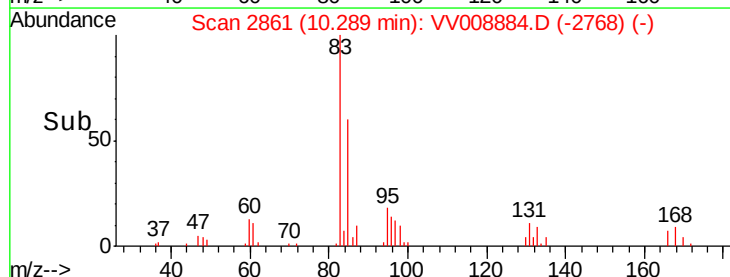
131 11.3 9.6 14.4

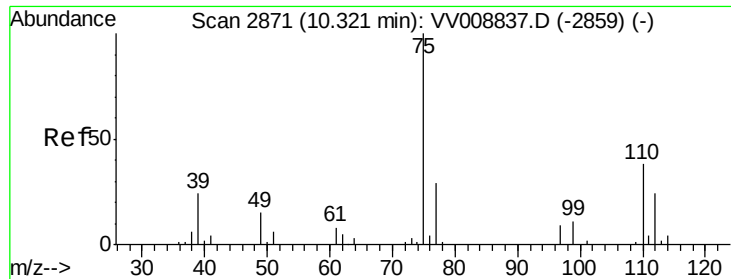


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.736 ug/L

RT: 10.32 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

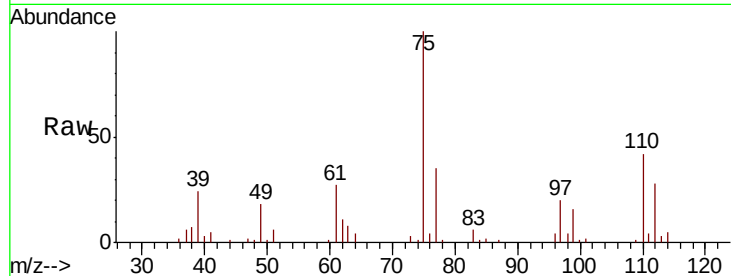
VSTD00572

Tgt Ion: 75 Resp: 18835

Ion Ratio Lower Upper

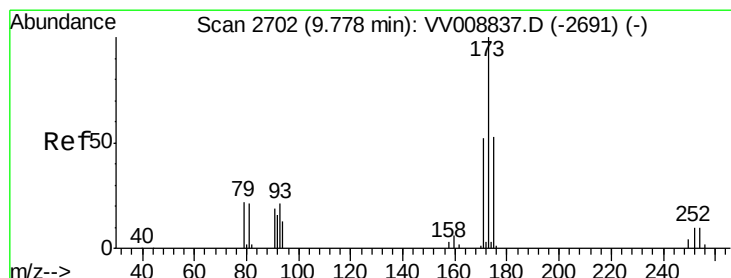
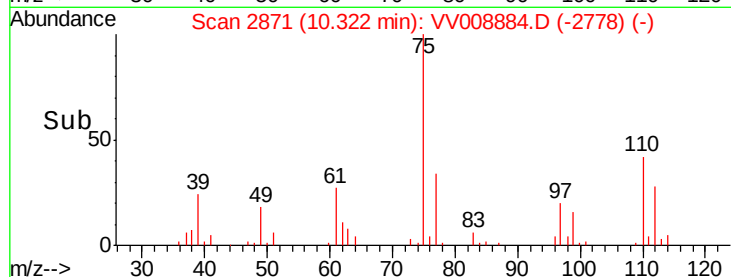
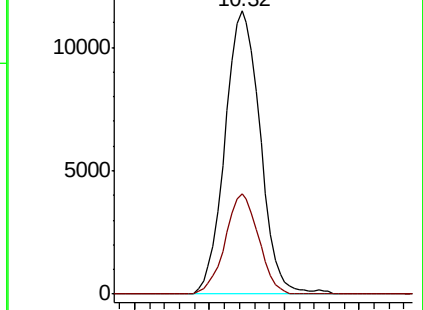
75 100

77 33.3 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) (-)



#61

Bromoform

Concen: 4.547 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

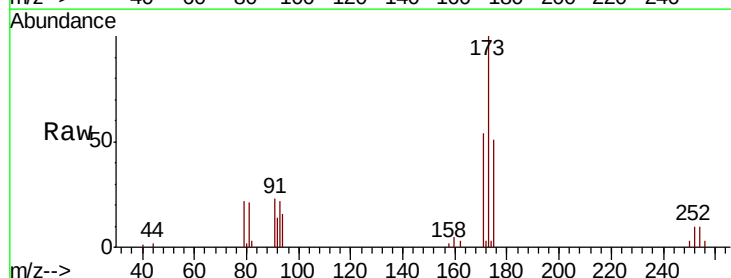
Tgt Ion: 173 Resp: 13004

Ion Ratio Lower Upper

173 100

175 48.5 40.2 60.4

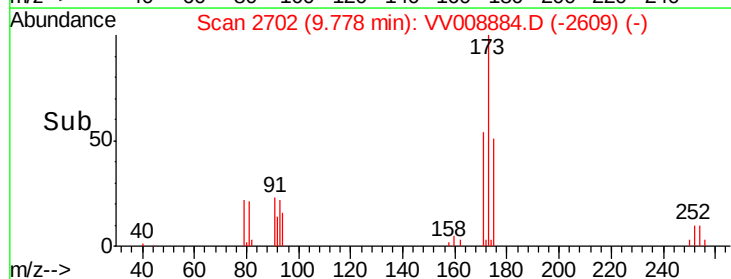
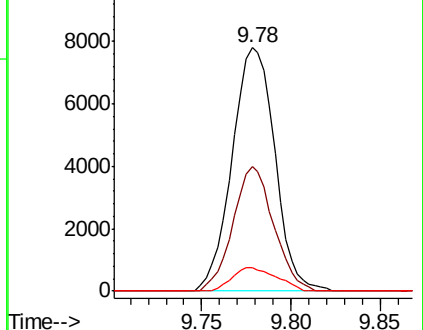
254 9.9 7.0 10.6

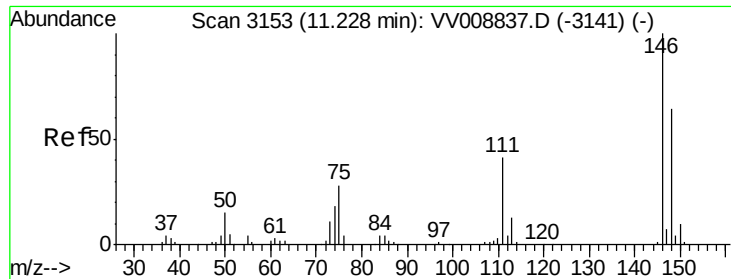


Abundance Ion 172.90 (172.60 to 173.60): VV008837.D (-2691) (-)

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

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





#62

1,3-Dichlorobenzene

Concen: 4.566 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

VSTD00572

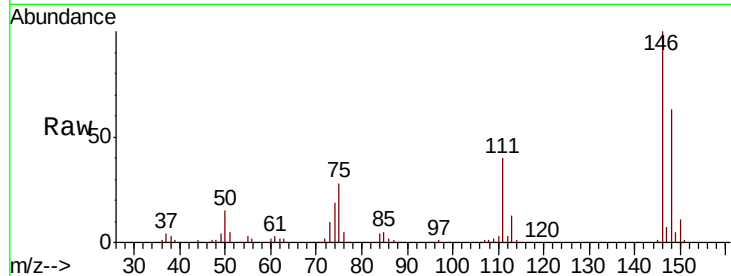
Tgt Ion:146 Resp: 70953

Ion Ratio Lower Upper

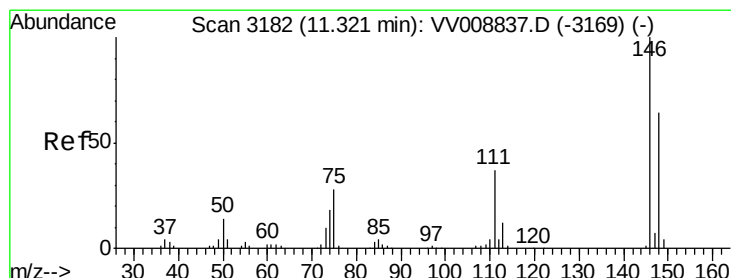
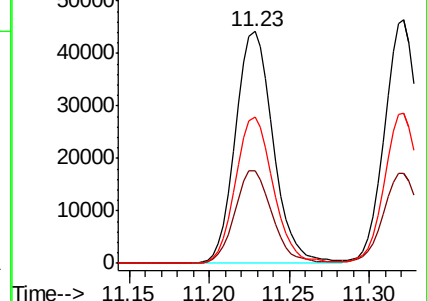
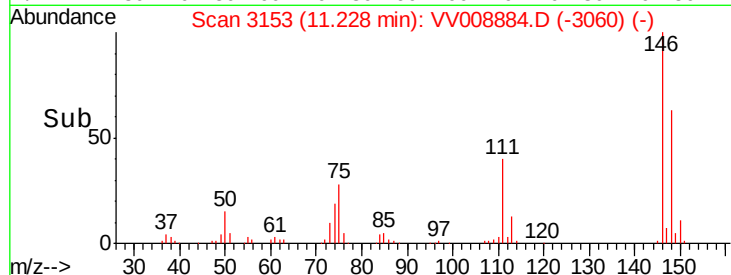
146 100

111 40.1 28.5 52.9

148 63.1 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: 4.580 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

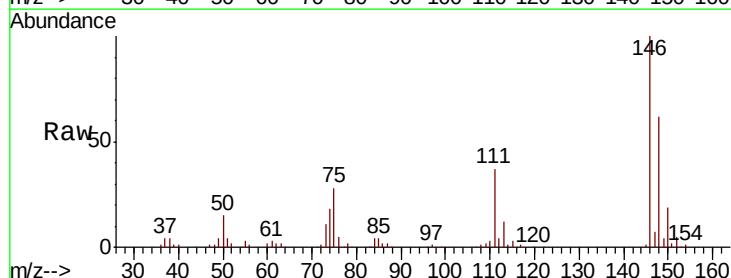
Tgt Ion:146 Resp: 72768

Ion Ratio Lower Upper

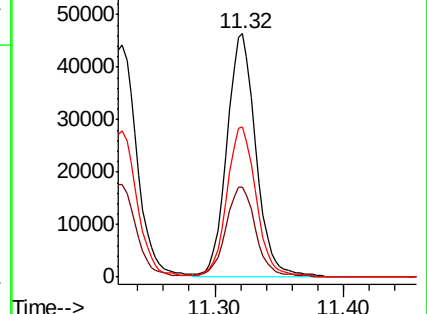
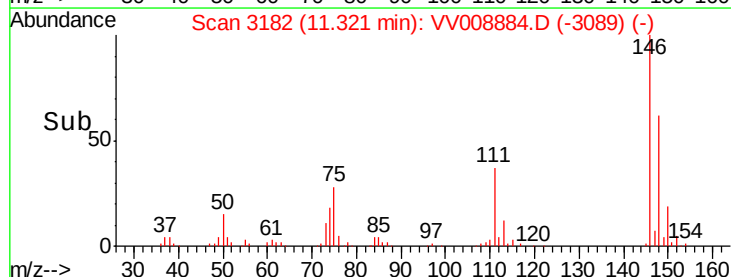
146 100

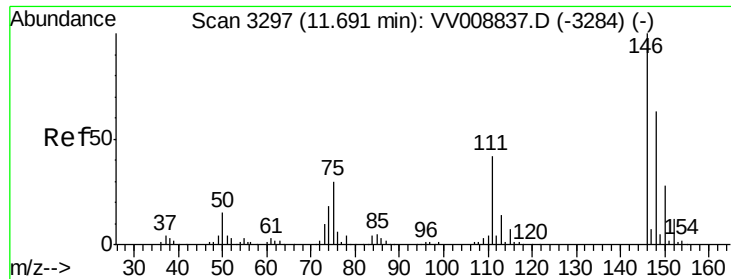
111 37.0 26.2 48.8

148 61.5 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

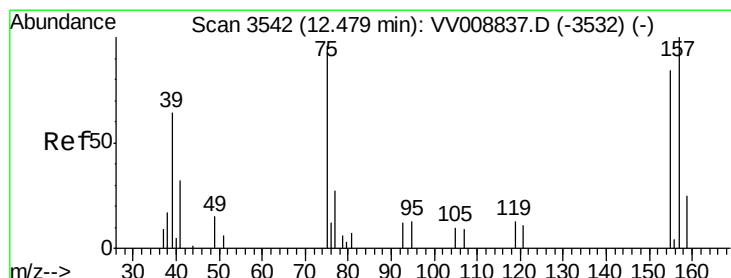
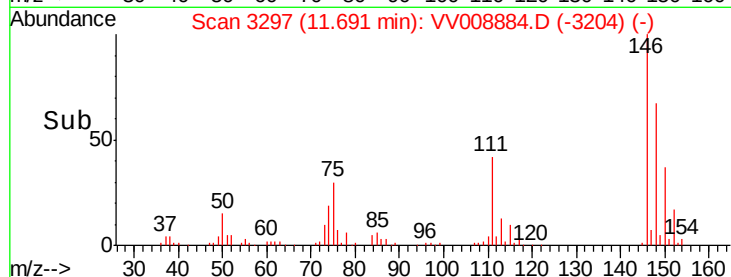
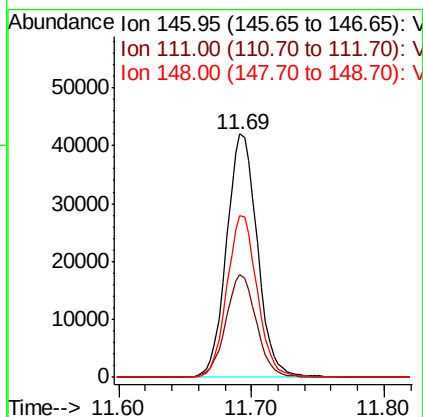
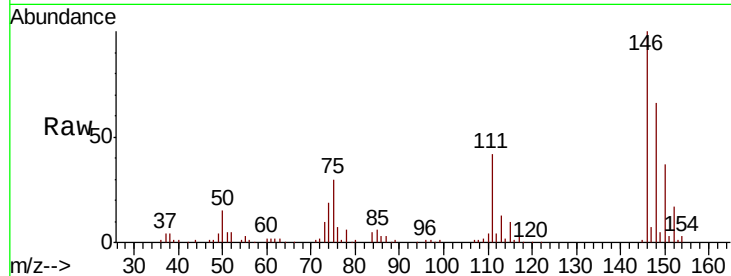




#65
 1,2-Dichlorobenzene
 Concen: 4.716 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

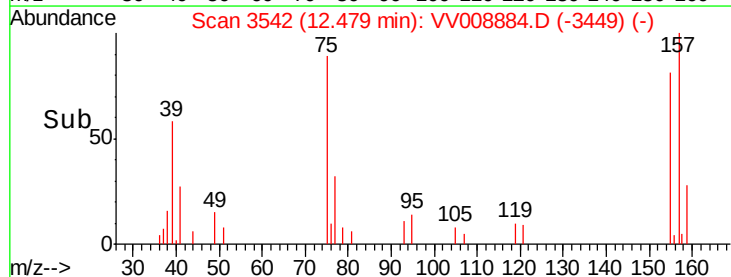
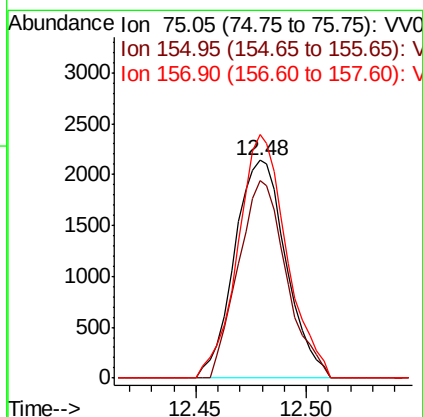
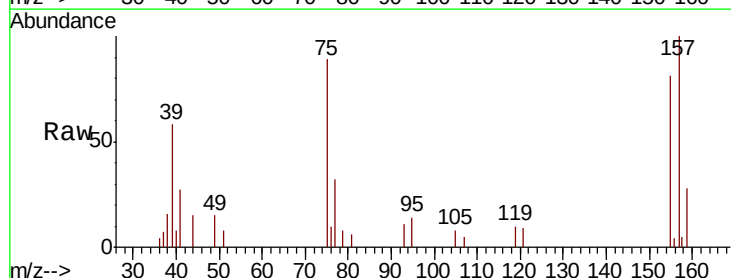
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00572

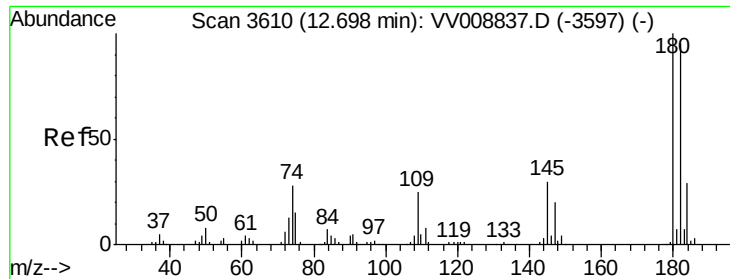
Tgt Ion: 146 Resp: 67695
 Ion Ratio Lower Upper
 146 100
 111 42.2 33.8 50.6
 148 66.5 50.0 75.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.821 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

Tgt Ion: 75 Resp: 3474
 Ion Ratio Lower Upper
 75 100
 155 91.0 70.2 105.4
 157 111.8 83.4 125.2

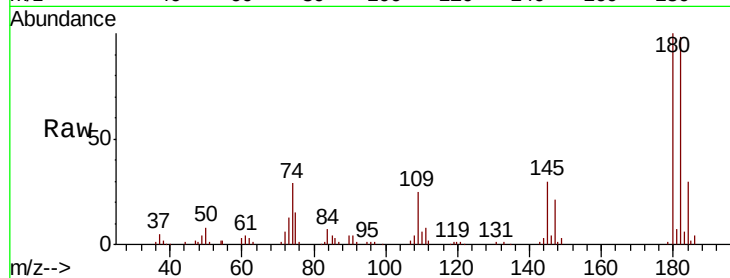




#67
 1,3,5-Trichlorobenzene
 Concen: 4.610 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00572

Tgt Ion:	180	Resp:	53325
Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.5	114.7
184	30.2	24.3	36.5
145	30.5	25.2	37.8



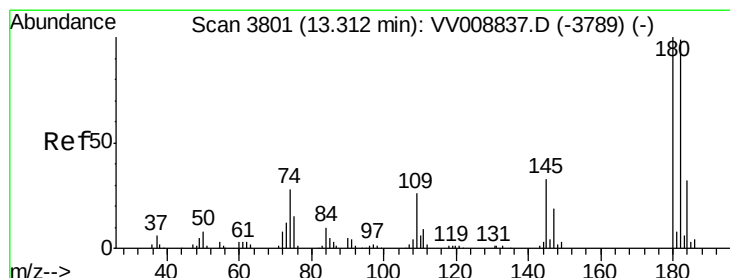
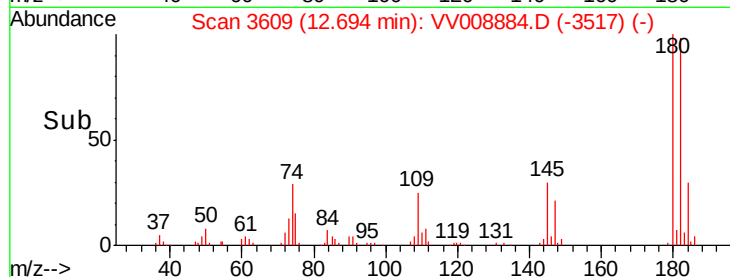
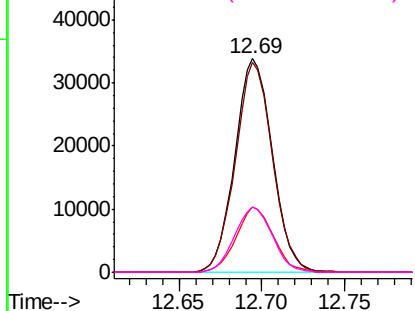
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

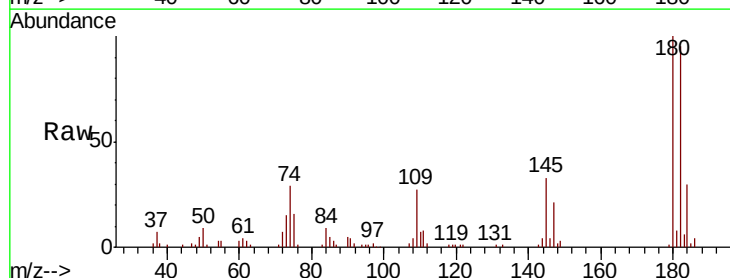
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.555 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV008884.D
 Acq: 07 Dec 2018 18:49

Tgt Ion:	180	Resp:	39150
Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.2	114.4
145	31.7	26.2	39.4

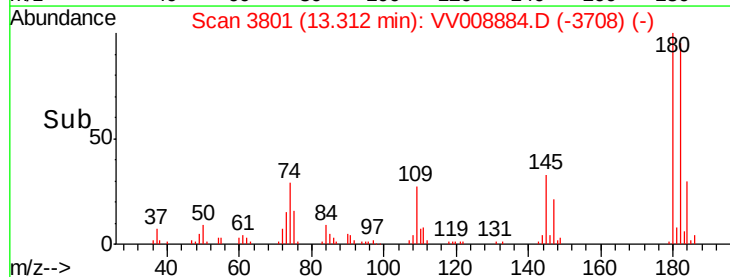
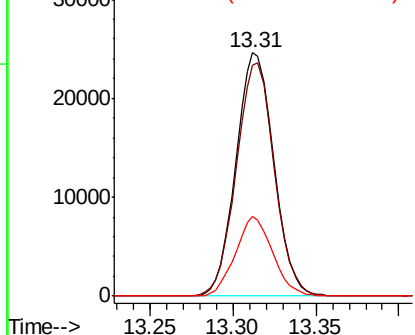


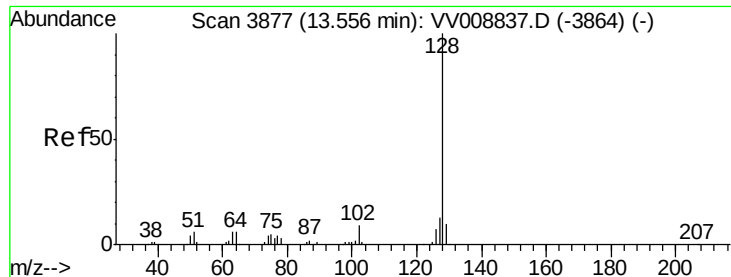
Abundance

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: 4.506 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

Instrument :

MSVOA_V

ClientSampleId :

VSTD00572

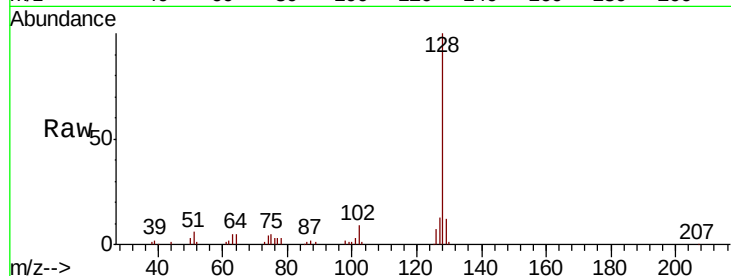
Tgt Ion:128 Resp: 56220

Ion Ratio Lower Upper

128 100

129 11.2 8.6 12.8

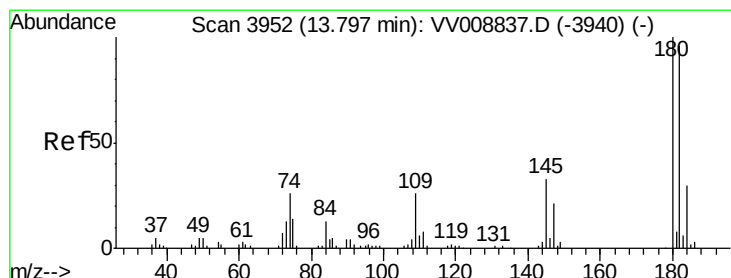
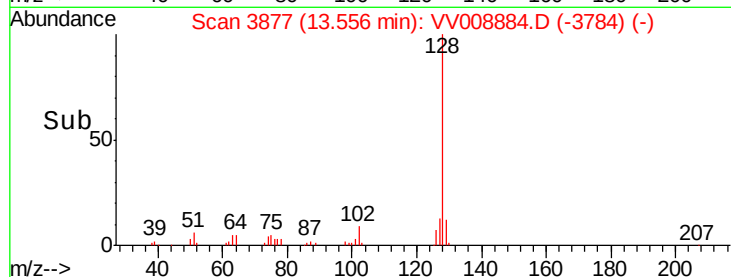
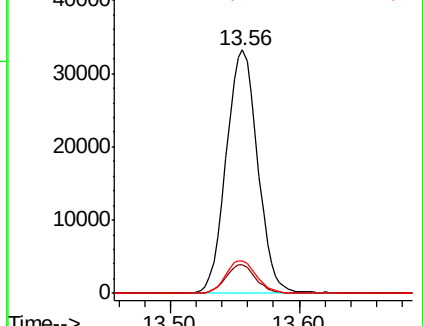
127 12.9 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.828 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV008884.D

Acq: 07 Dec 2018 18:49

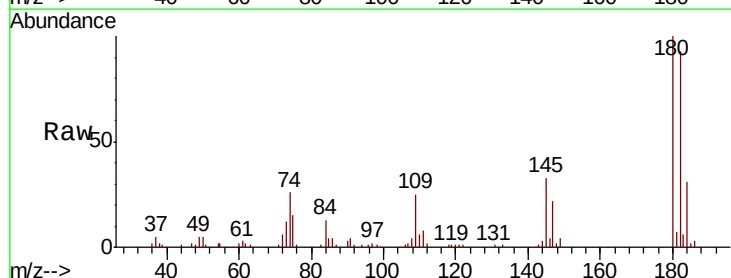
Tgt Ion:180 Resp: 38838

Ion Ratio Lower Upper

180 100

182 92.4 77.8 116.8

145 31.4 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

