

Data Path : W:\HPCHEM1\MSVOA_V\DATA\VV050718\
 Data File : VV005816.D
 Acq On : 07 May 2018 13:37
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00598

Quant Time: May 08 01:16:15 2018
 Quant Method : W:\HPCHEM1\MSVOA_V\METHOD\SOMVTR050518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon May 07 14:49:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	319278	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	319034	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	152256	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	108151	4.46	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	89.20%
7) Chloroethane-d5	1.59	69	90221	4.32	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.40%
11) 1,1-Dichloroethene-d2	2.14	63	236412	4.42	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.40%
20) 2-Butanone-d5	3.95	46	231773	48.62	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.24%
24) Chloroform-d	4.41	84	202769	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
26) 1,2-Dichloroethane-d4	5.09	65	112370	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.80%
32) Benzene-d6	5.11	84	388980	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.80%
36) 1,2-Dichloropropane-d6	6.12	67	114690	4.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.20%
41) Toluene-d8	7.36	98	383007	4.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.60%
43) trans-1,3-Dichloropropene-	7.67	79	47097	4.49	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.80%
46) 2-Hexanone-d5	8.14	63	189388	46.20	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.40%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	85954	4.30	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	86.00%
64) 1,2-Dichlorobenzene-d4	11.68	152	131381	4.15	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	136139	4.33	ug/L	90
3) Chloromethane	1.26	50	130317	4.44	ug/L	97
5) Vinyl chloride	1.33	62	139036	4.46	ug/L	97
6) Bromomethane	1.54	94	66984	4.81	ug/L	98
8) Chloroethane	1.60	64	86576	4.65	ug/L	96
9) Trichlorofluoromethane	1.77	101	222298	4.86	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.15	101	124158	4.96	ug/L	99
12) 1,1-Dichloroethene	2.15	96	107816	4.72	ug/L	88
13) Acetone	2.20	43	175184	43.39	ug/L	99
14) Carbon disulfide	2.32	76	323381	4.31	ug/L	100
15) Methyl Acetate	2.47	43	47836	4.52	ug/L	97
16) Methylene chloride	2.54	84	115356	4.55	ug/L	96
17) Methyl tert-butyl Ether	2.82	73	262156	4.61	ug/L	99
18) trans-1,2-Dichloroethene	2.80	96	117885	4.69	ug/L	95
19) 1,1-Dichloroethane	3.23	63	220015	4.51	ug/L	99
21) 2-Butanone	4.04	43	257959	47.02	ug/L	96
22) cis-1,2-Dichloroethene	3.97	96	120214	4.88	ug/L	96

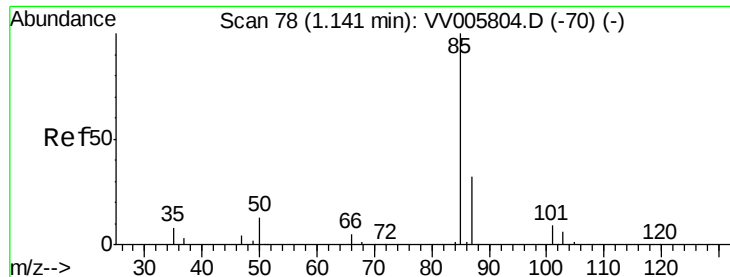
Data Path : W:\HPCHEM1\MSVOA_V\DATA\VV050718\
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 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon May 07 14:49:21 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	48442	4.68	ug/L	95
25) Chloroform	4.44	83	236688	4.63	ug/L	98
27) 1,2-Dichloroethane	5.19	62	145221	4.71	ug/L	100
29) 1,1,1-Trichloroethane	4.67	97	201449	4.86	ug/L	99
30) Cyclohexane	4.73	56	180647	5.12	ug/L	97
31) Carbon tetrachloride	4.88	117	183902	4.93	ug/L	99
33) Benzene	5.15	78	460979	4.97	ug/L	100
34) Trichloroethene	5.96	95	128866	4.88	ug/L	96
35) Methylcyclohexane	6.18	83	190352	5.12	ug/L	97
37) 1,2-Dichloropropane	6.23	63	111573	4.86	ug/L	100
38) Bromodichloromethane	6.56	83	156522	4.86	ug/L	99
39) cis-1,3-Dichloropropene	7.08	75	170379	5.13	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	690329	48.49	ug/L	99
42) Toluene	7.44	91	510715	5.02	ug/L	99
44) trans-1,3-Dichloropropene	7.70	75	141981	5.13	ug/L	98
45) 1,1,2-Trichloroethane	7.89	97	79516	4.64	ug/L	98
47) Tetrachloroethene	8.02	164	91021	4.91	ug/L	97
48) 2-Hexanone	8.19	43	514269	48.91	ug/L	98
49) Dibromochloromethane	8.30	129	97074	4.89	ug/L	99
50) 1,2-Dibromoethane	8.40	107	74916	4.73	ug/L	96
51) Chlorobenzene	8.93	112	327073	4.90	ug/L	99
52) Ethylbenzene	9.06	91	568507	5.17	ug/L	98
53) m,p-xylene	9.19	106	211773	5.27	ug/L	99
54) o-xylene	9.59	106	206288	5.32	ug/L	99
55) Styrene	9.61	104	348388	5.39	ug/L	98
56) Isopropylbenzene	9.98	105	570718	5.47	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.29	83	91123	4.81	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	72211	4.73	ug/L	99
61) Bromoform	9.78	173	44301	4.47	ug/L #	96
62) 1,3-Dichlorobenzene	11.23	146	244498	4.94	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	252208	4.89	ug/L	97
65) 1,2-Dichlorobenzene	11.70	146	233806	4.81	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	14855	4.60	ug/L #	85
67) 1,3,5-Trichlorobenzene	12.70	180	179299	4.98	ug/L	98
68) 1,2,4-trichlorobenzene	13.32	180	141651	5.27	ug/L	98
69) Naphthalene	13.56	128	218906	5.10	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	134551	5.24	ug/L	98

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



#2

Dichlorodifluoromethane

Concen: 4.33 ug/L

RT: 1.14 min Scan# 78

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

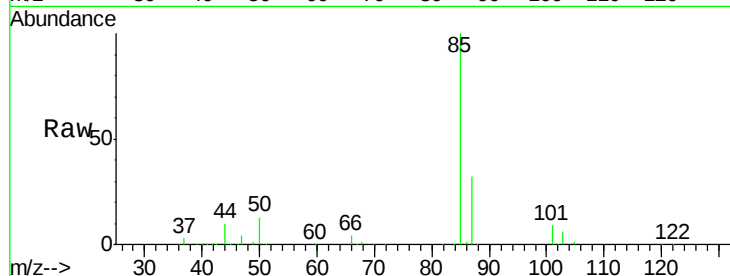
VSTD00598

Tgt Ion: 85 Resp: 136139

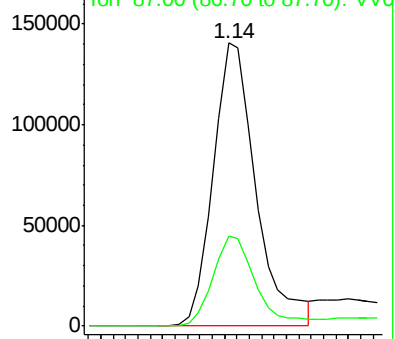
Ion Ratio Lower Upper

85 100

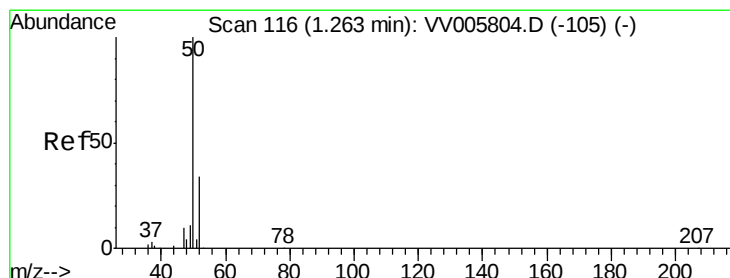
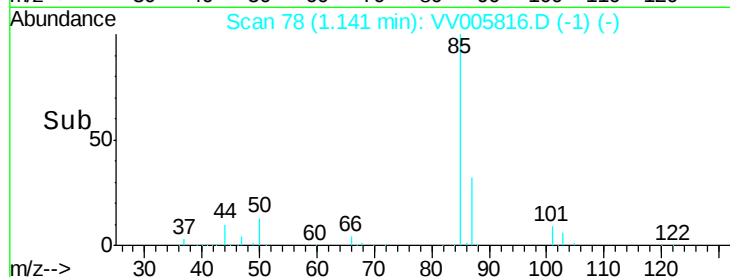
87 32.2 21.6 32.4



Abundance Ion 85.00 (84.70 to 85.70): VV005816.D (-1) (-)



Time-->



#3

Chloromethane

Concen: 4.44 ug/L

RT: 1.26 min Scan# 116

Delta R.T. -0.00 min

Lab File: VV005816.D

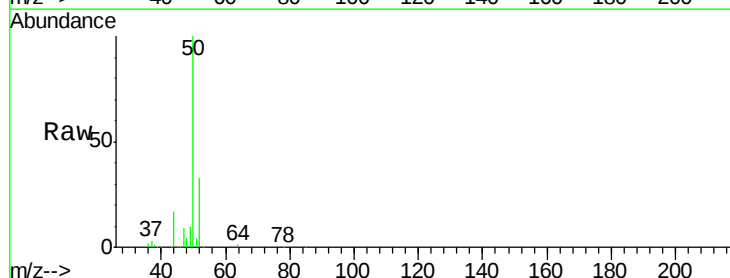
Acq: 07 May 2018 13:37

Tgt Ion: 50 Resp: 130317

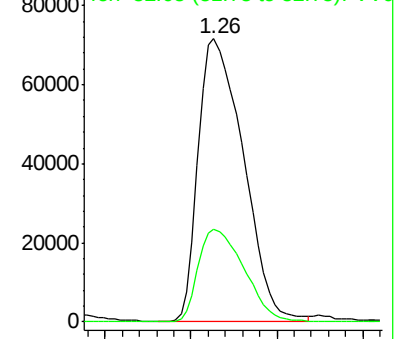
Ion Ratio Lower Upper

50 100

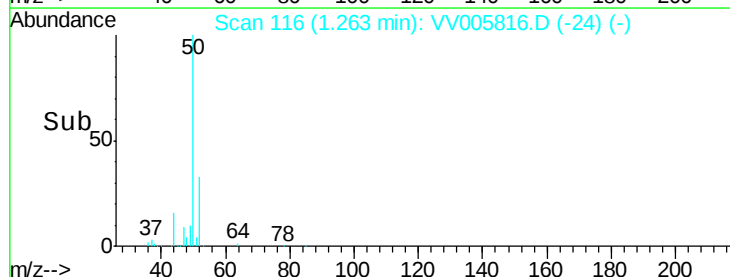
52 32.7 21.8 40.6

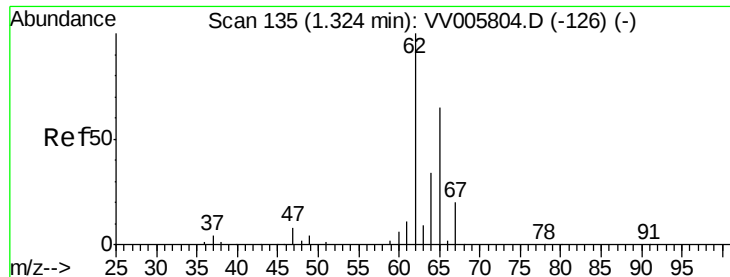


Abundance Ion 50.05 (49.75 to 50.75): VV005816.D (-24) (-)



Time-->





#5

Vinyl chloride

Concen: 4.46 ug/L

RT: 1.33 min Scan# 136

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

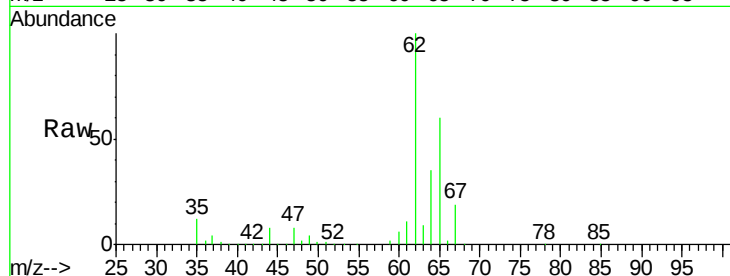
VSTD00598

Tgt Ion: 62 Resp: 139036

Ion Ratio Lower Upper

62 100

64 34.6 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV005816.D (-136) (-)

Ion 64.10 (63.80 to 64.80): VV005816.D (-136) (-)

1.33

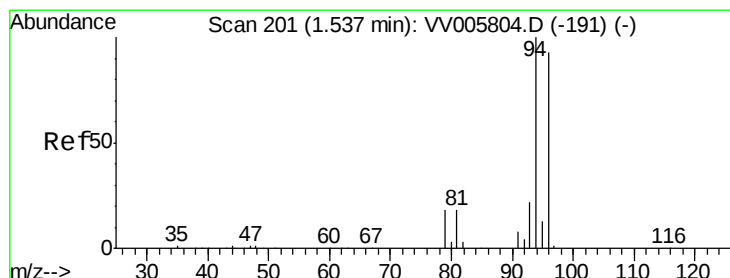
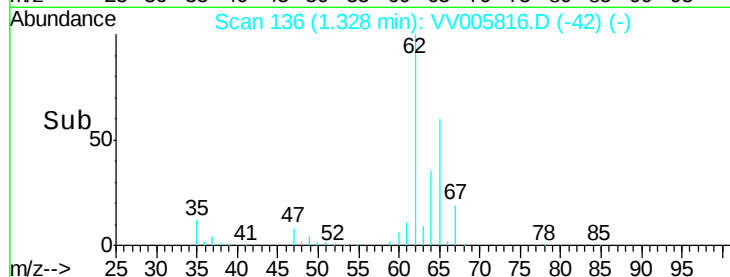
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 4.81 ug/L

RT: 1.54 min Scan# 202

Delta R.T. 0.00 min

Lab File: VV005816.D

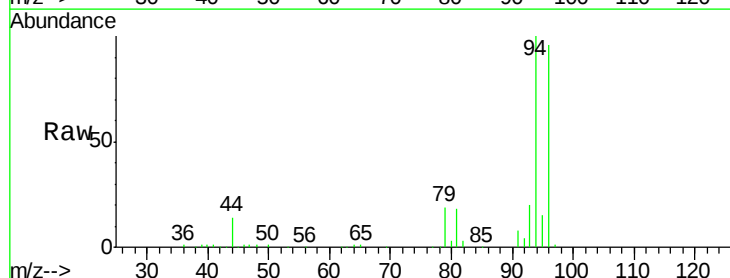
Acq: 07 May 2018 13:37

Tgt Ion: 94 Resp: 66984

Ion Ratio Lower Upper

94 100

96 95.5 68.0 126.2



Abundance Ion 94.00 (93.70 to 94.70): VV005816.D (-202) (-)

Ion 96.00 (95.70 to 96.70): VV005816.D (-202) (-)

1.54

60000

50000

40000

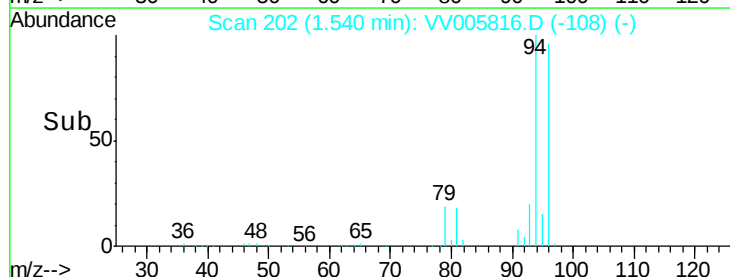
30000

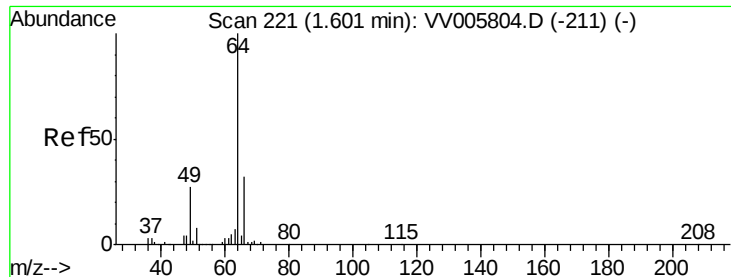
20000

10000

0

Time-->

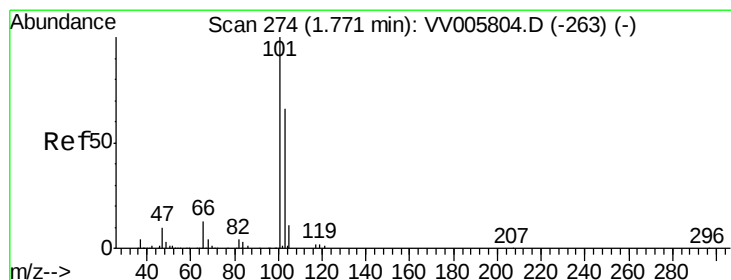
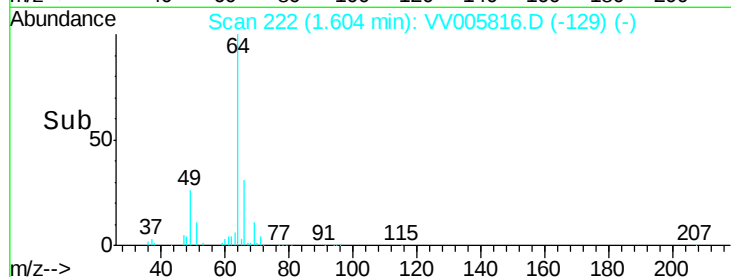
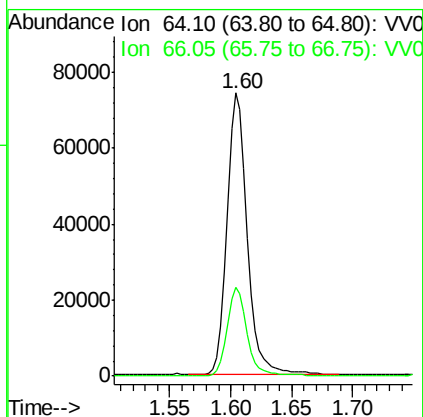
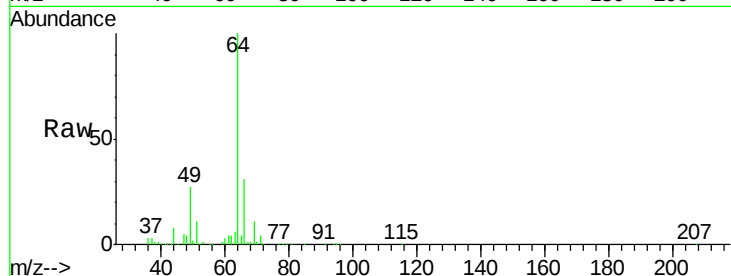




#8
Chloroethane
Concen: 4.65 ug/L
RT: 1.60 min Scan# 222
Delta R.T. 0.00 min
Lab File: VV005816.D
Acq: 07 May 2018 13:37

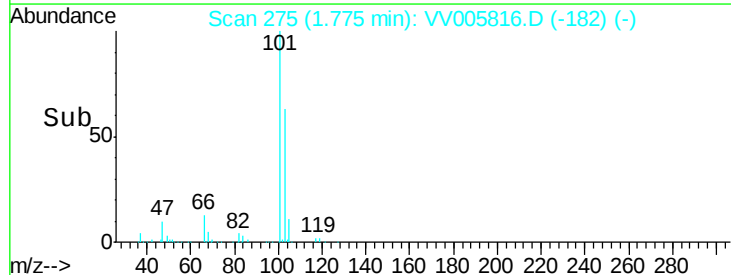
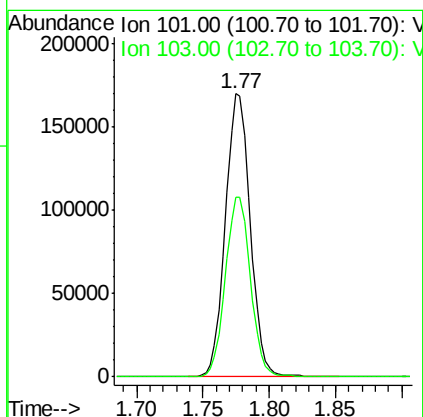
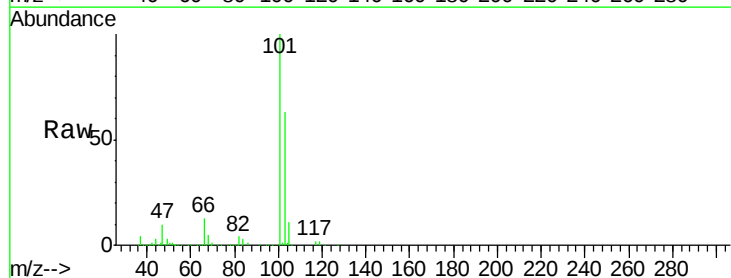
Instrument :
MSVOA_V
ClientSampleId :
VSTD00598

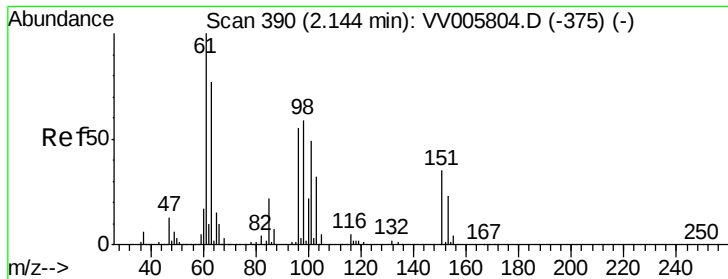
Tgt Ion: 64 Resp: 86576
Ion Ratio Lower Upper
64 100
66 31.3 23.5 43.7



#9
Trichlorofluoromethane
Concen: 4.86 ug/L
RT: 1.77 min Scan# 275
Delta R.T. 0.00 min
Lab File: VV005816.D
Acq: 07 May 2018 13:37

Tgt Ion: 101 Resp: 222298
Ion Ratio Lower Upper
101 100
103 64.2 51.2 76.8





#10

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

Concen: 4.96 ug/L

RT: 2.15 min Scan# 391

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00598

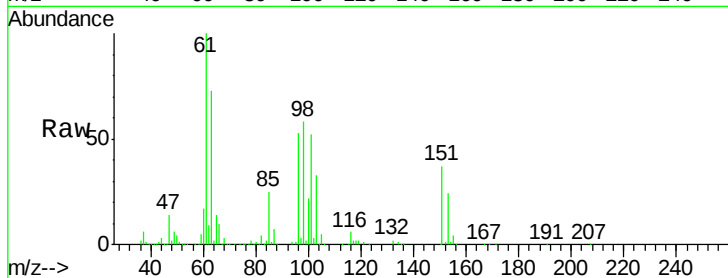
Tgt Ion:101 Resp: 124158

Ion Ratio Lower Upper

101 100

85 47.0 37.8 56.8

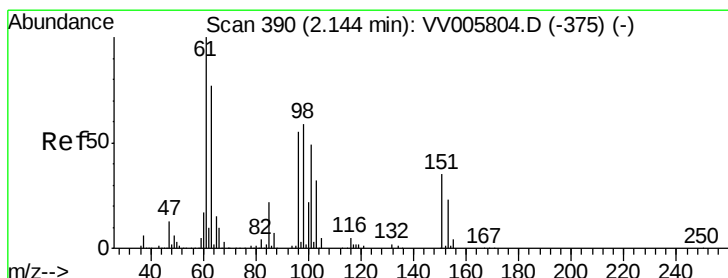
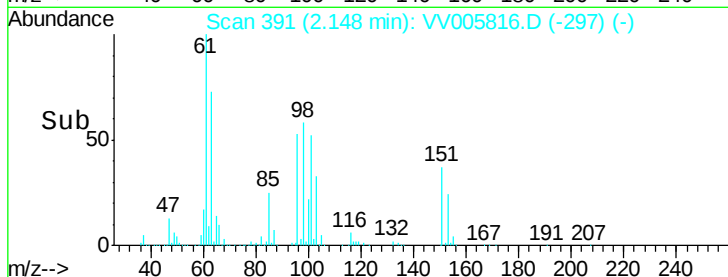
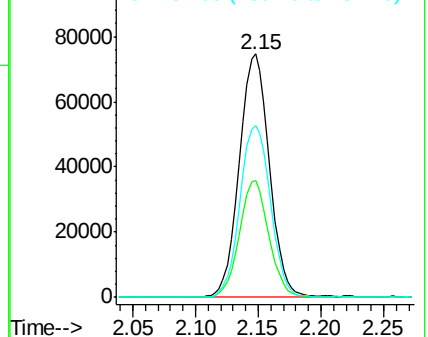
151 72.0 58.9 88.3



Abundance Ion 101.00 (100.70 to 101.70): VV005816.D (-297) (-)

Ion 85.00 (84.70 to 85.70): VV005816.D (-297) (-)

Ion 151.00 (150.70 to 151.70): VV005816.D (-297) (-)



#12

1,1-Dichloroethene

Concen: 4.72 ug/L

RT: 2.15 min Scan# 391

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

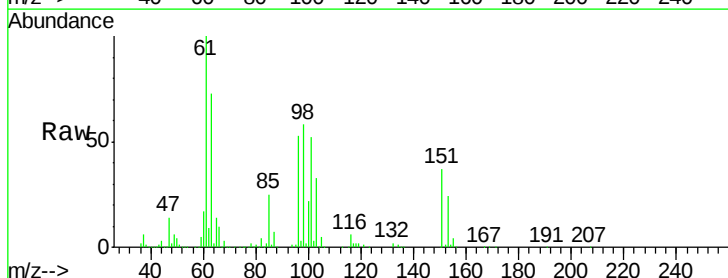
Tgt Ion: 96 Resp: 107816

Ion Ratio Lower Upper

96 100

61 188.6 135.9 252.5

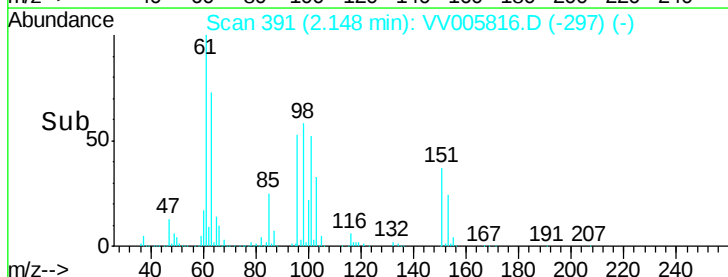
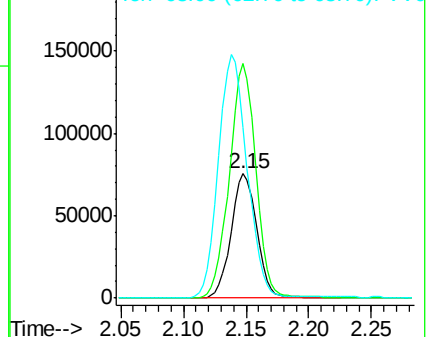
63 137.1 115.5 214.5

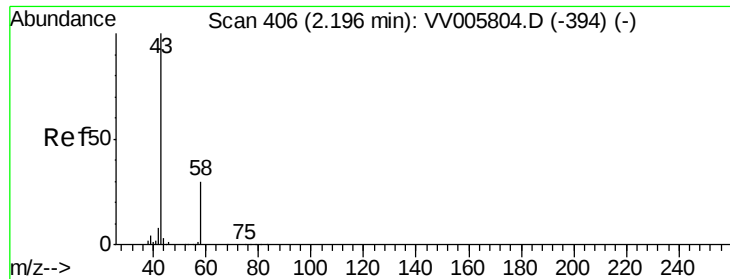


Abundance Ion 96.00 (95.70 to 96.70): VV005816.D (-297) (-)

Ion 61.05 (60.75 to 61.75): VV005816.D (-297) (-)

Ion 63.00 (62.70 to 63.70): VV005816.D (-297) (-)





#13

Acetone

Concen: 43.39 ug/L

RT: 2.20 min Scan# 406

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

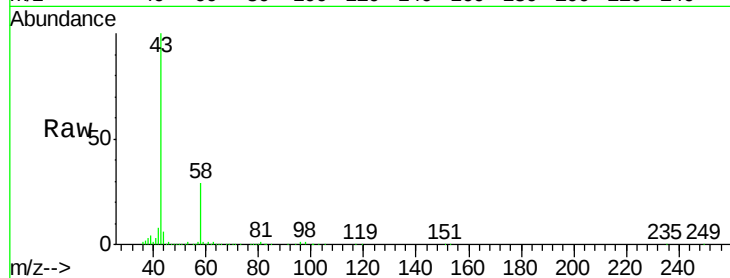
VSTD00598

Tgt Ion: 43 Resp: 175184

Ion Ratio Lower Upper

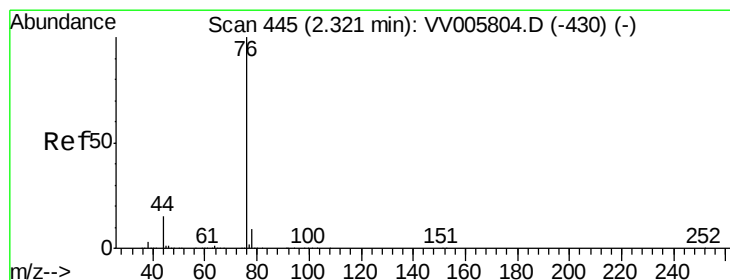
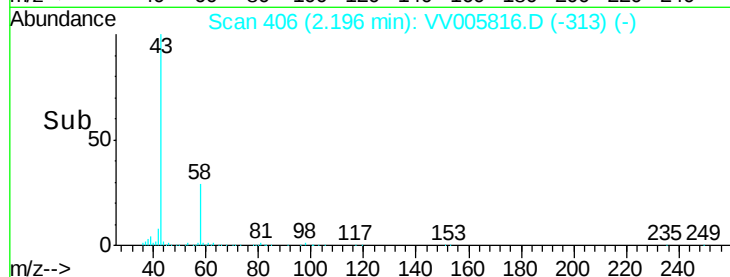
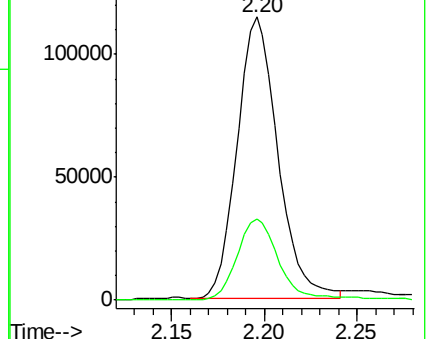
43 100

58 29.5 0.0 57.8



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 4.31 ug/L

RT: 2.32 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV005816.D

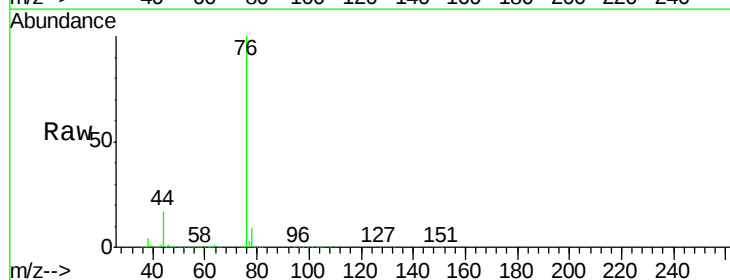
Acq: 07 May 2018 13:37

Tgt Ion: 76 Resp: 323381

Ion Ratio Lower Upper

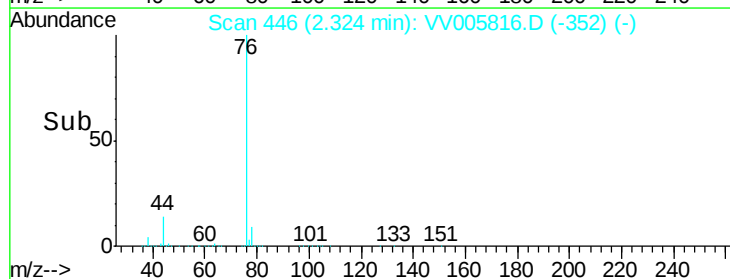
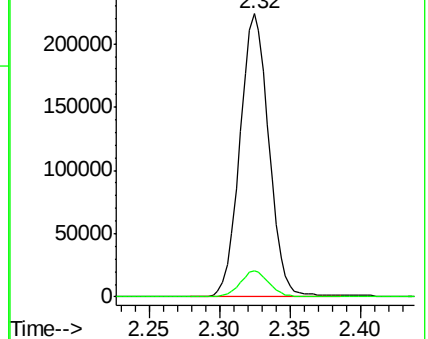
76 100

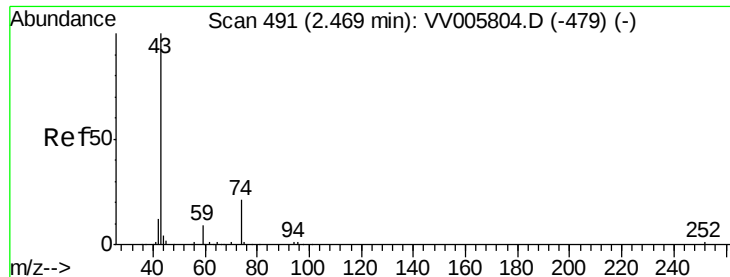
78 9.2 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0





#15

Methyl Acetate

Concen: 4.52 ug/L

RT: 2.47 min Scan# 490

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

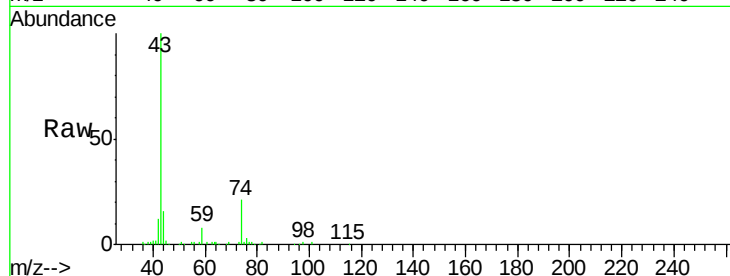
VSTD00598

Tgt Ion: 43 Resp: 47836

Ion Ratio Lower Upper

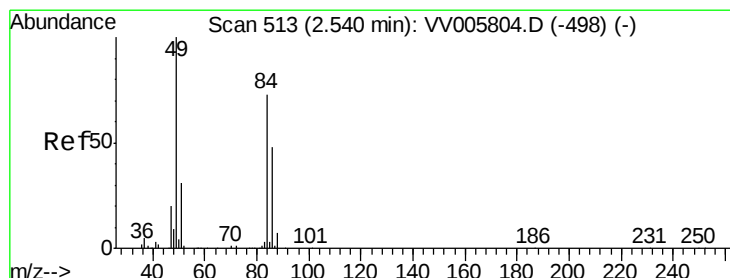
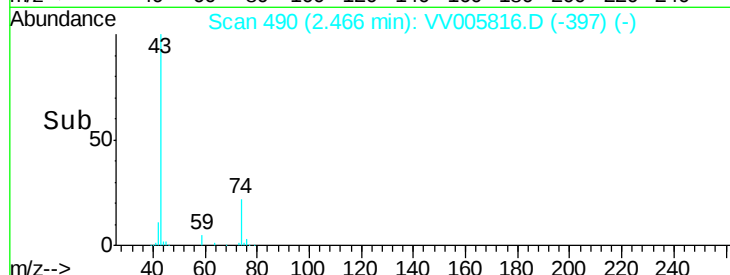
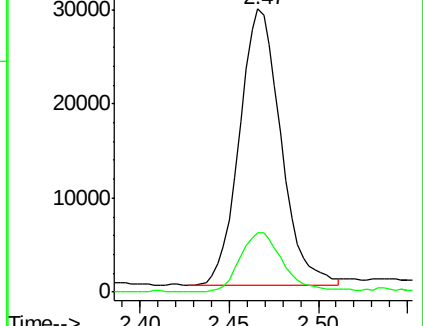
43 100

74 22.7 19.4 29.0



Abundance Ion 43.05 (42.75 to 43.75): VV005816.D (-397) (-)

Ion 74.05 (73.75 to 74.75): VV005816.D (-397) (-)



#16

Methylene chloride

Concen: 4.55 ug/L

RT: 2.54 min Scan# 514

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

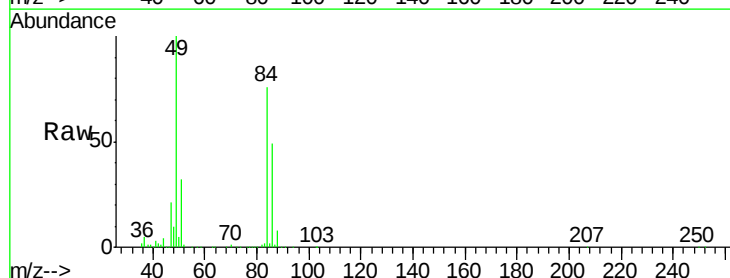
Tgt Ion: 84 Resp: 115356

Ion Ratio Lower Upper

84 100

86 64.3 44.3 82.3

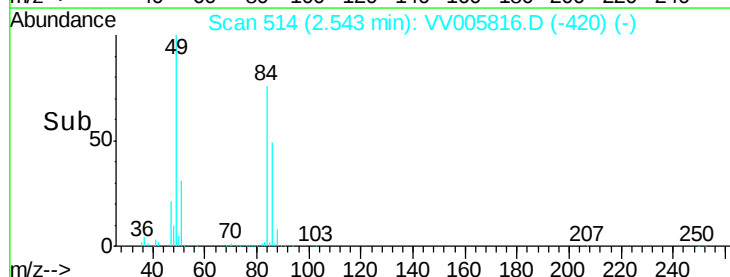
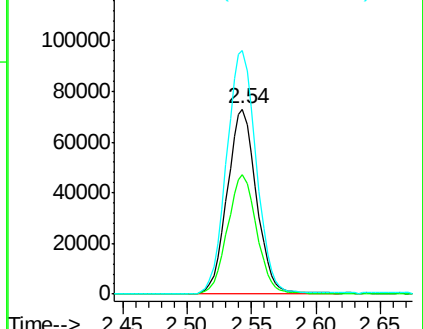
49 131.6 96.5 179.1

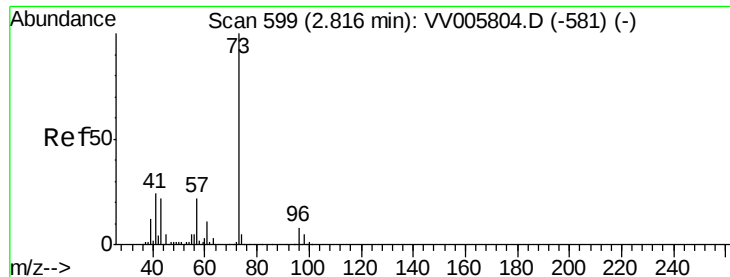


Abundance Ion 84.05 (83.75 to 84.75): VV005816.D (-420) (-)

Ion 86.00 (85.70 to 86.70): VV005816.D (-420) (-)

Ion 49.10 (48.80 to 49.80): VV005816.D (-420) (-)

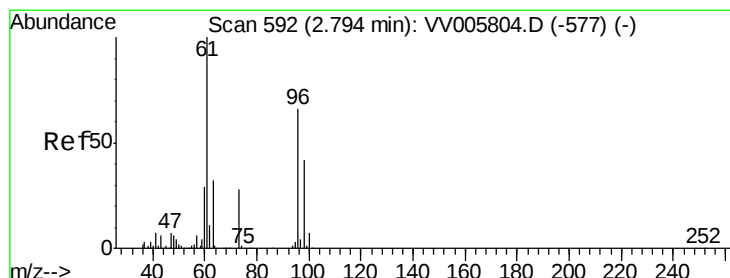
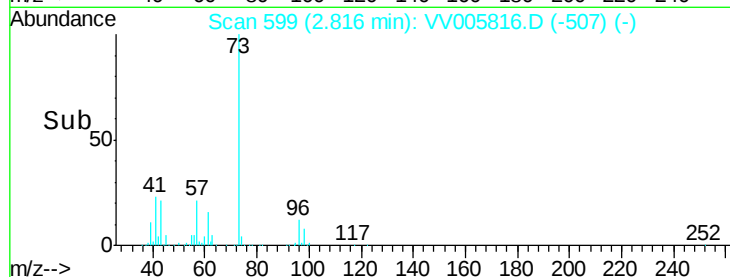
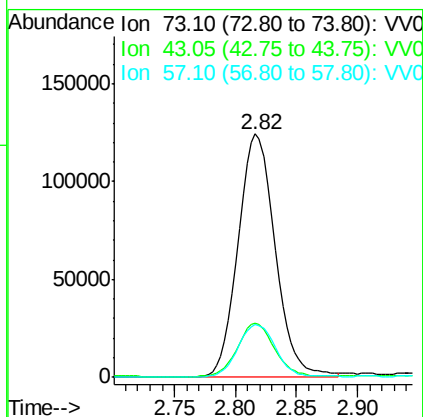
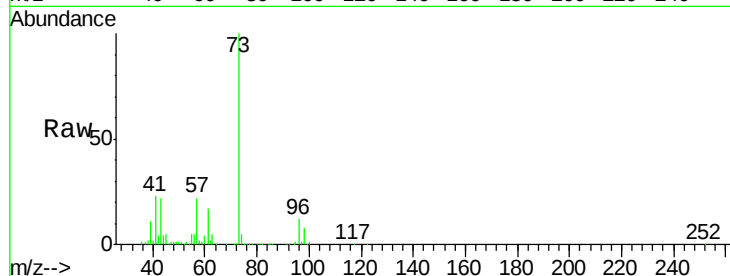




#17
Methyl tert-butyl Ether
Concen: 4.61 ug/L
RT: 2.82 min Scan# 599
Delta R.T. -0.00 min
Lab File: VV005816.D
Acq: 07 May 2018 13:37

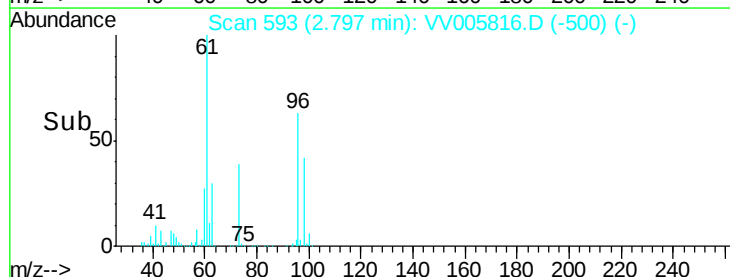
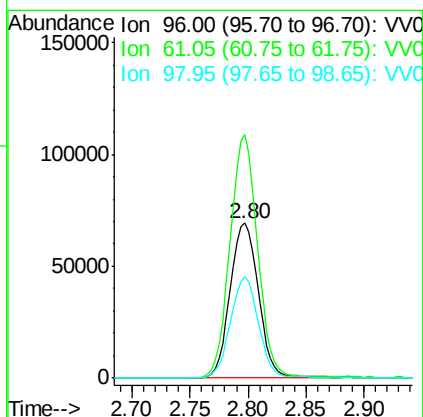
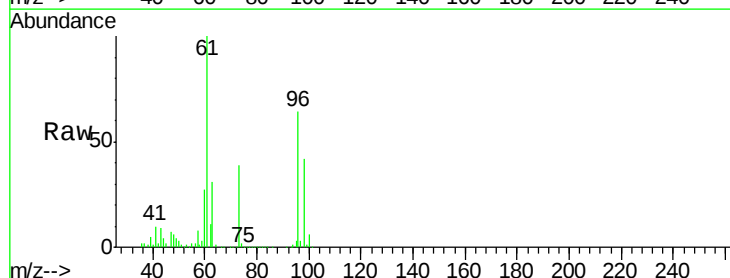
Instrument :
MSVOA_V
ClientSampleId :
VSTD00598

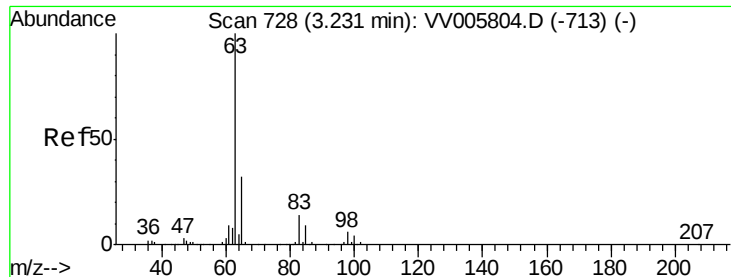
Tgt Ion: 73 Resp: 262156
Ion Ratio Lower Upper
73 100
43 21.6 17.0 25.4
57 22.4 18.5 27.7



#18
trans-1,2-Dichloroethene
Concen: 4.69 ug/L
RT: 2.80 min Scan# 593
Delta R.T. 0.00 min
Lab File: VV005816.D
Acq: 07 May 2018 13:37

Tgt Ion: 96 Resp: 117885
Ion Ratio Lower Upper
96 100
61 157.1 104.7 194.4
98 65.5 44.8 83.2





#19

1,1-Dichloroethane

Concen: 4.51 ug/L

RT: 3.23 min Scan# 729

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00598

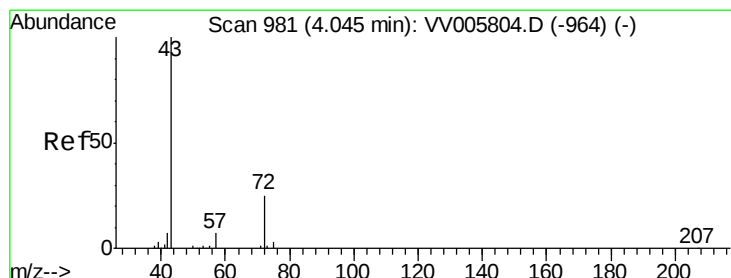
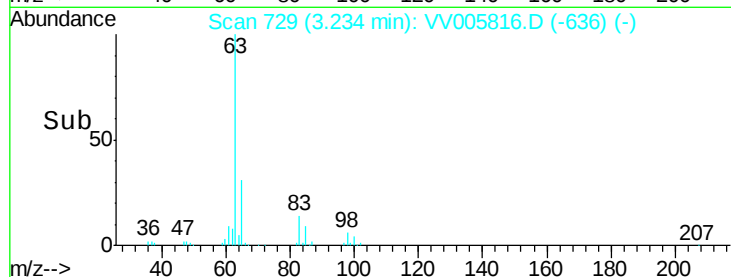
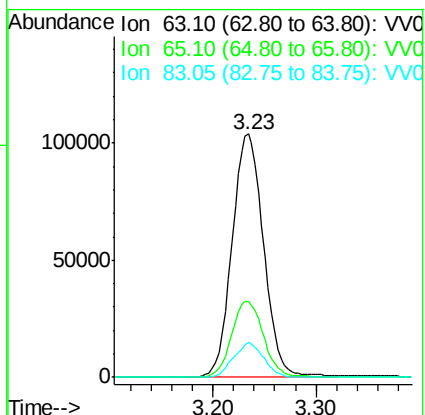
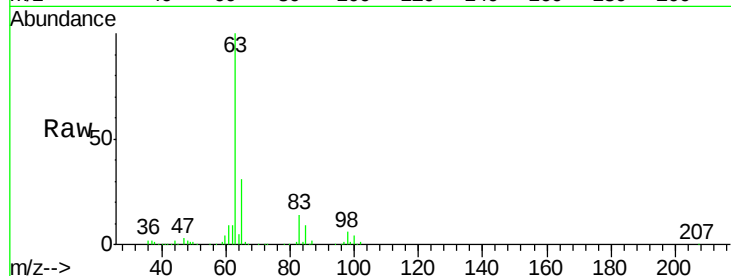
Tgt Ion: 63 Resp: 220015

Ion Ratio Lower Upper

63 100

65 31.3 22.0 40.8

83 14.2 9.2 17.0



#21

2-Butanone

Concen: 47.02 ug/L

RT: 4.04 min Scan# 980

Delta R.T. -0.00 min

Lab File: VV005816.D

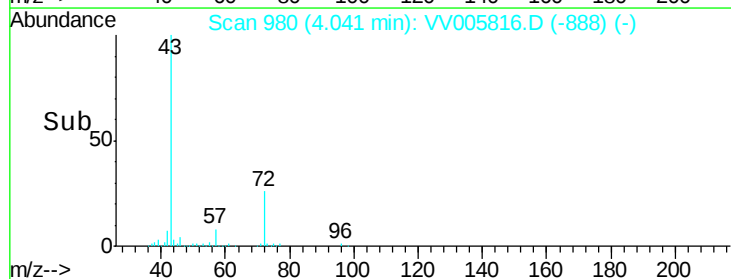
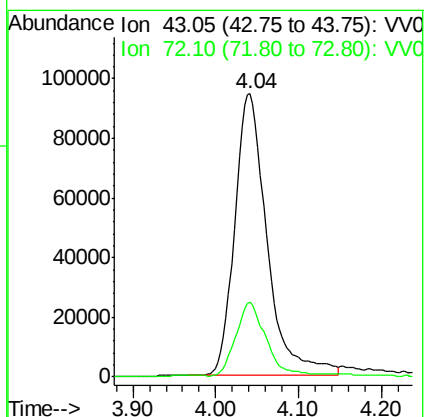
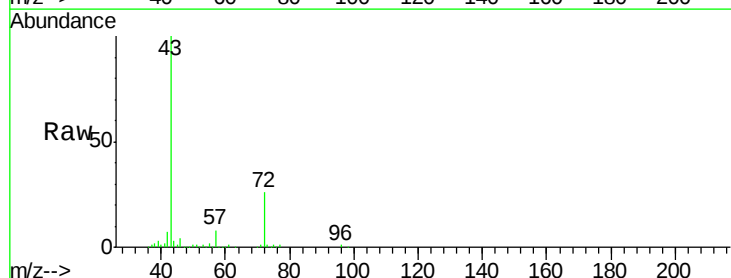
Acq: 07 May 2018 13:37

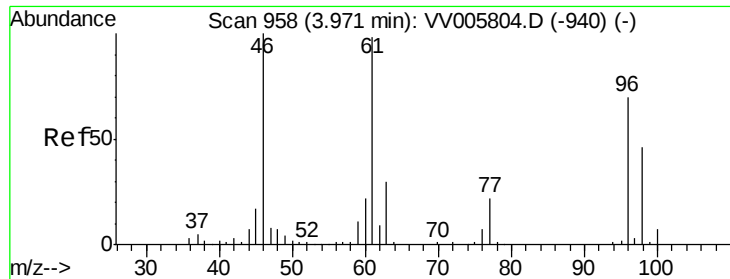
Tgt Ion: 43 Resp: 257959

Ion Ratio Lower Upper

43 100

72 24.2 13.2 39.5



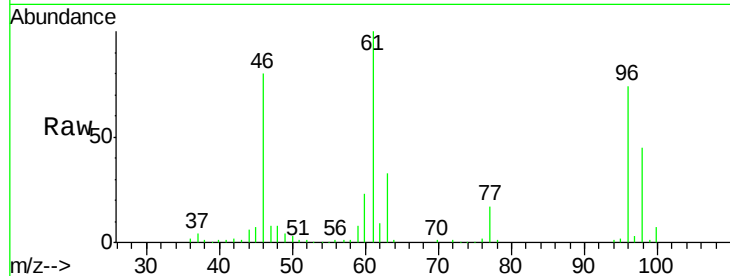


#22

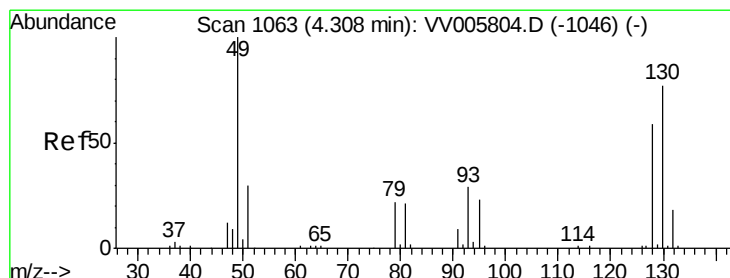
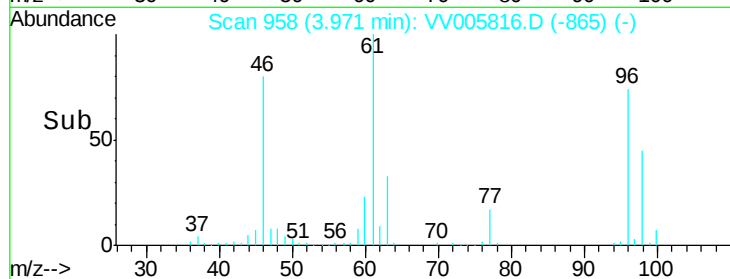
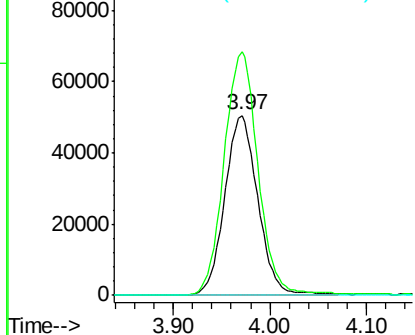
cis-1,2-Dichloroethene
 Concen: 4.88 ug/L
 RT: 3.97 min Scan# 958
 Delta R.T. 0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00598

Tgt Ion: 96 Resp: 120214
 Ion Ratio Lower Upper
 96 100
 61 135.5 91.8 170.6
 68 0.0 0.0 0.0



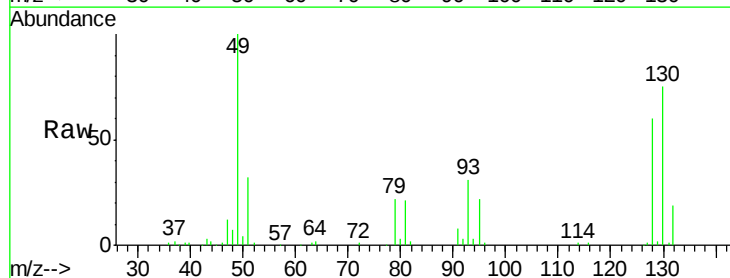
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



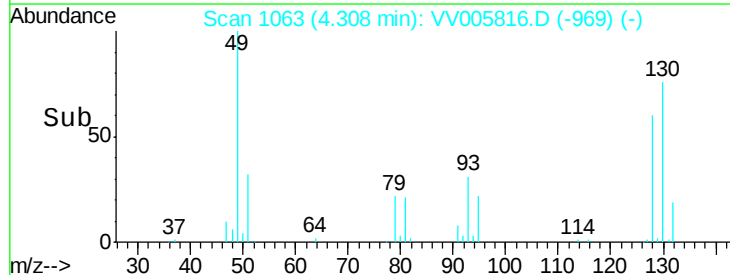
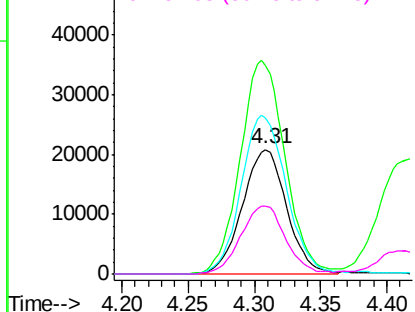
#23

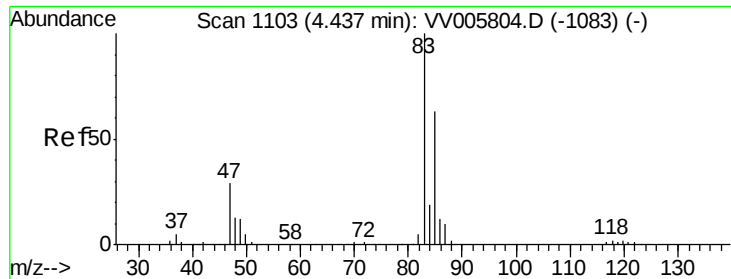
Bromochloromethane
 Concen: 4.68 ug/L
 RT: 4.31 min Scan# 1063
 Delta R.T. 0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

Tgt Ion: 128 Resp: 48442
 Ion Ratio Lower Upper
 128 100
 49 167.9 121.7 225.9
 130 125.6 93.2 173.0
 51 54.5 42.1 63.1



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

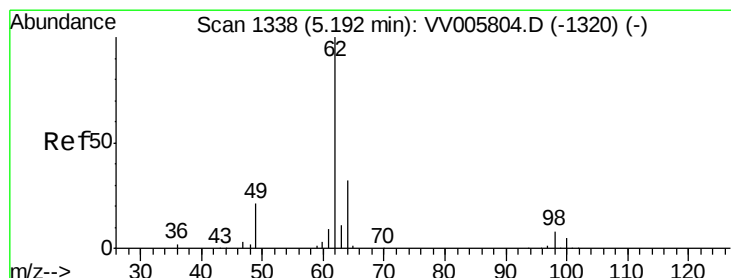
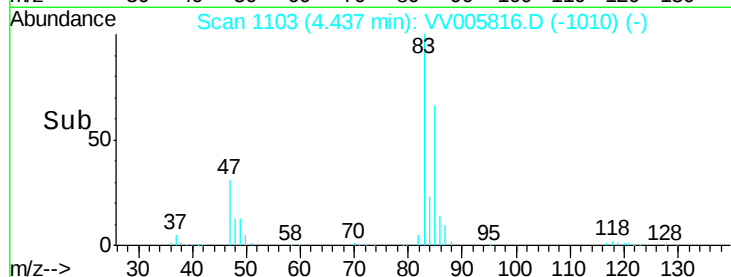
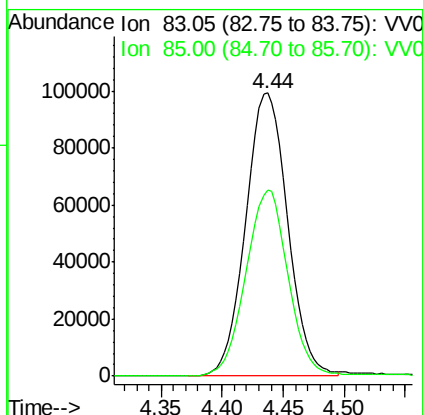
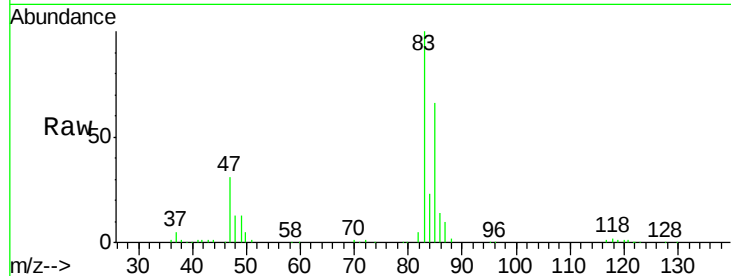




#25
Chloroform
Concen: 4.63 ug/L
RT: 4.44 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VV005816.D
Acq: 07 May 2018 13:37

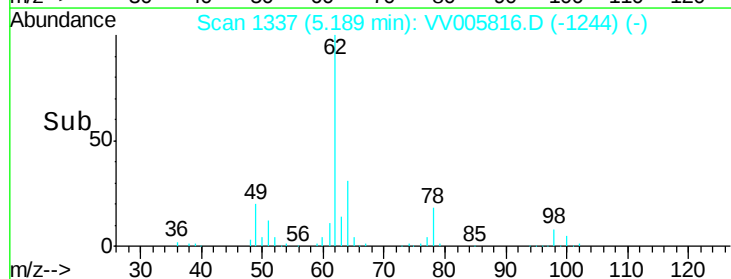
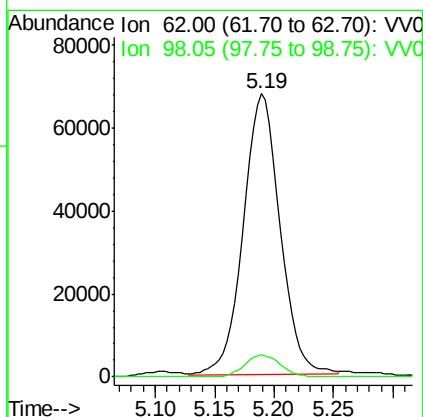
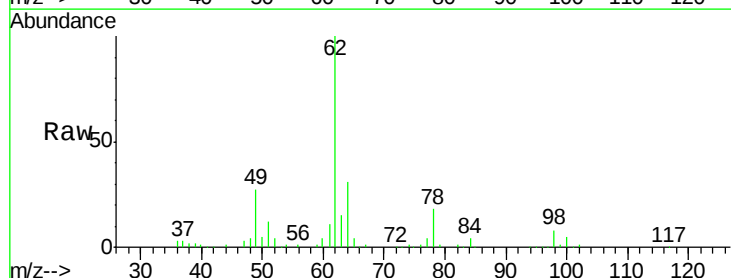
Instrument :
MSVOA_V
ClientSampleId :
VSTD00598

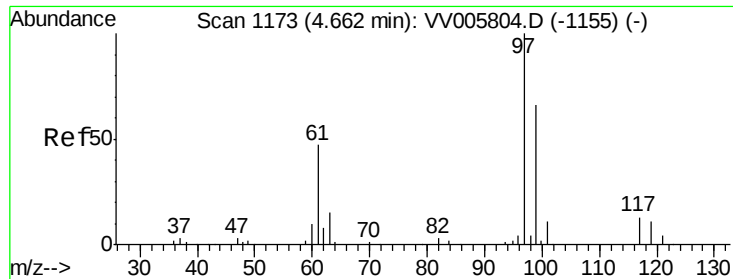
Tgt Ion: 83 Resp: 236688
Ion Ratio Lower Upper
83 100
85 65.8 47.1 87.5



#27
1,2-Dichloroethane
Concen: 4.71 ug/L
RT: 5.19 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VV005816.D
Acq: 07 May 2018 13:37

Tgt Ion: 62 Resp: 145221
Ion Ratio Lower Upper
62 100
98 7.7 6.1 9.1

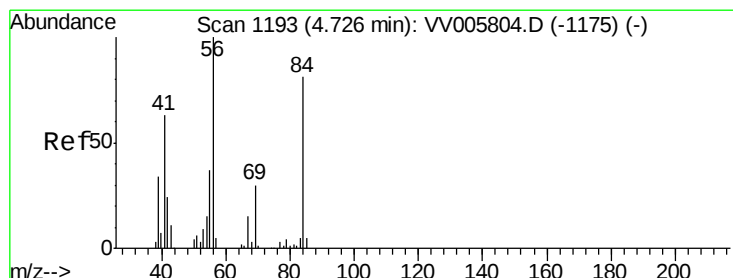
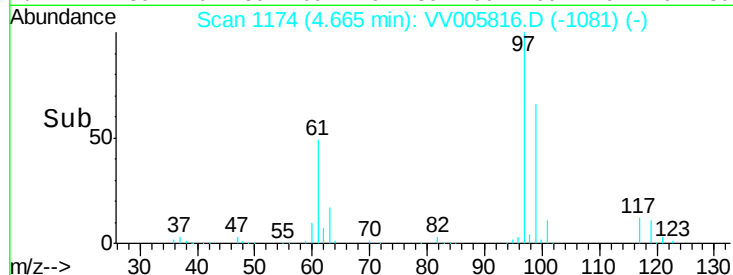
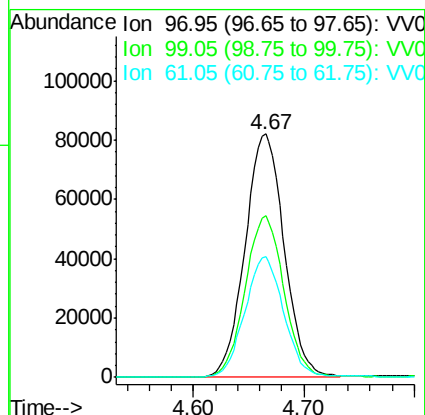
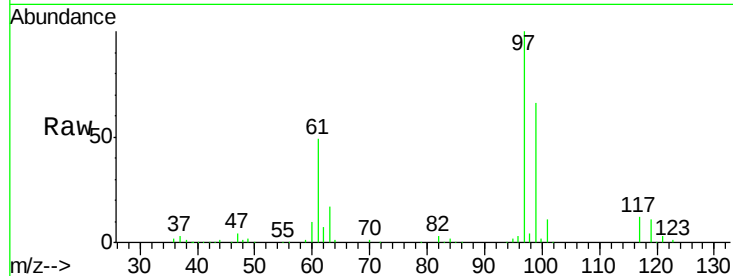




#29
 1,1,1-Trichloroethane
 Concen: 4.86 ug/L
 RT: 4.67 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

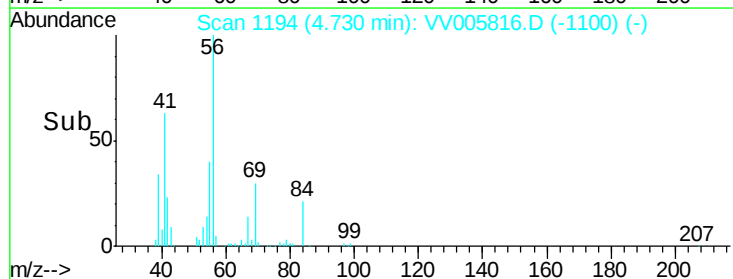
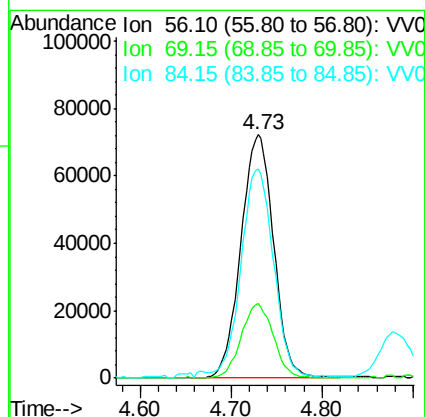
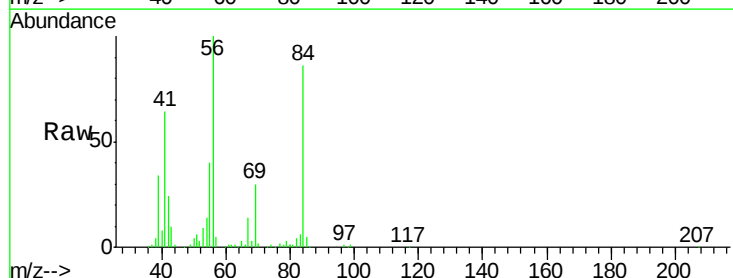
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00598

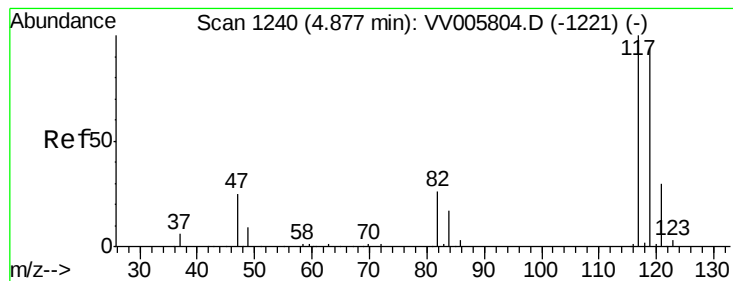
Tgt Ion: 97 Resp: 201449
 Ion Ratio Lower Upper
 97 100
 99 66.0 51.8 77.8
 61 49.3 38.9 58.3



#30
 Cyclohexane
 Concen: 5.12 ug/L
 RT: 4.73 min Scan# 1194
 Delta R.T. 0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

Tgt Ion: 56 Resp: 180647
 Ion Ratio Lower Upper
 56 100
 69 29.9 24.3 36.5
 84 83.9 69.4 104.2





#31

Carbon tetrachloride

Concen: 4.93 ug/L

RT: 4.88 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

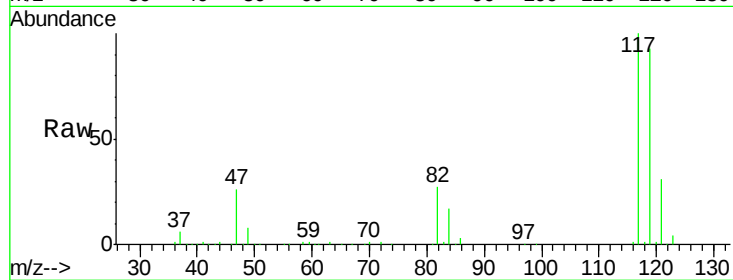
VSTD00598

Tgt Ion:117 Resp: 183902

Ion Ratio Lower Upper

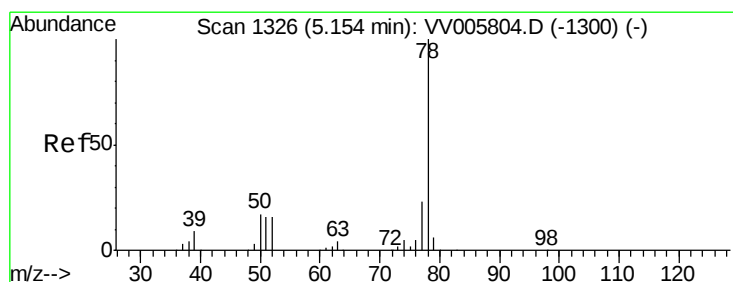
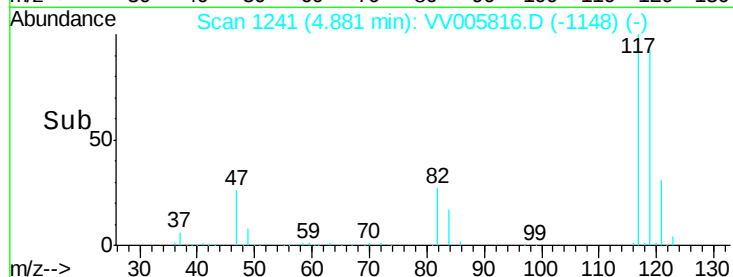
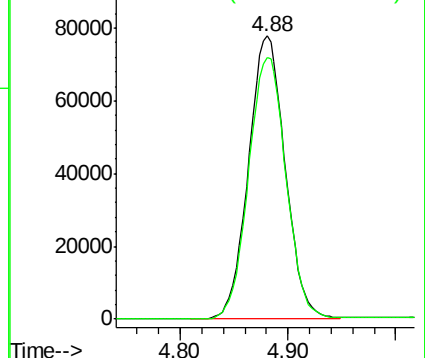
117 100

119 94.0 76.2 114.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.97 ug/L

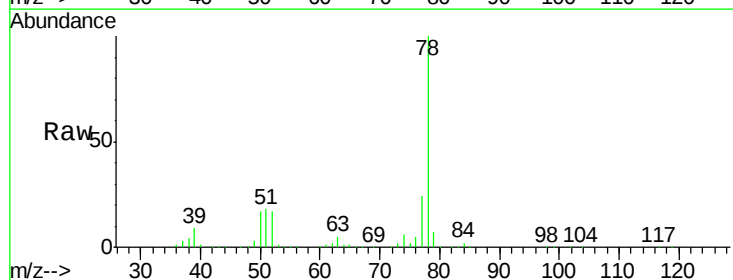
RT: 5.15 min Scan# 1326

Delta R.T. 0.00 min

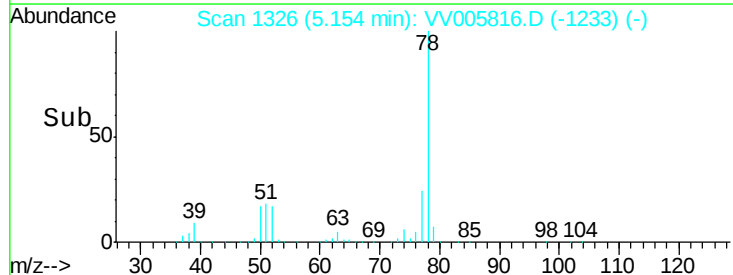
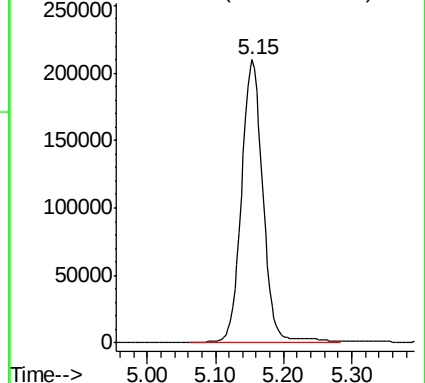
Lab File: VV005816.D

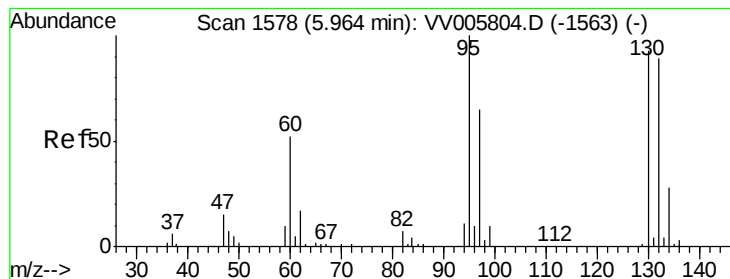
Acq: 07 May 2018 13:37

Tgt Ion: 78 Resp: 460979



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.88 ug/L

RT: 5.96 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampled :

VSTD00598

Tgt Ion: 95 Resp: 128866

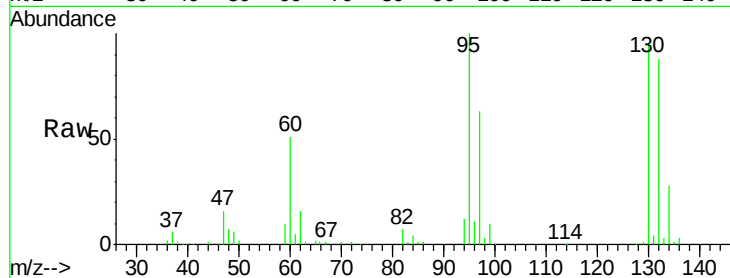
Ion Ratio Lower Upper

95 100

97 62.9 45.6 84.8

132 88.2 64.2 119.2

130 94.8 69.0 128.2

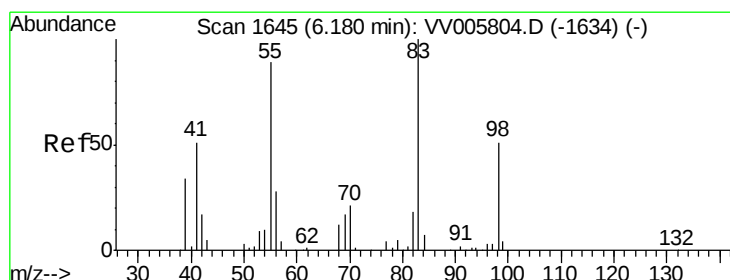
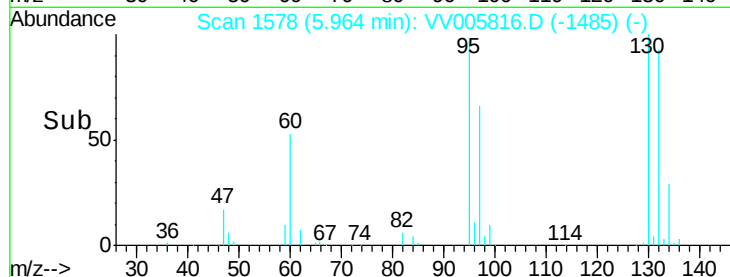
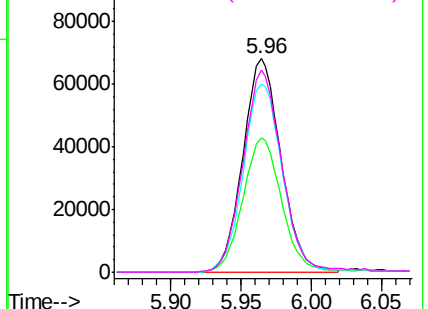


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 5.12 ug/L

RT: 6.18 min Scan# 1645

Delta R.T. -0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

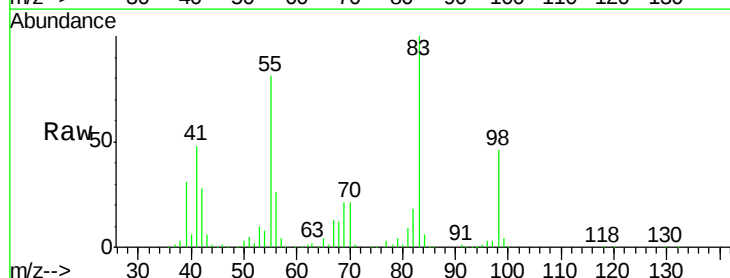
Tgt Ion: 83 Resp: 190352

Ion Ratio Lower Upper

83 100

55 83.1 64.1 96.1

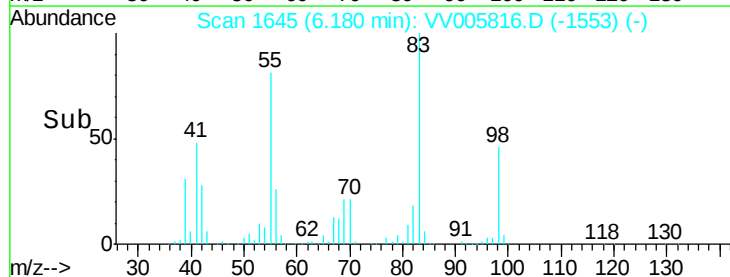
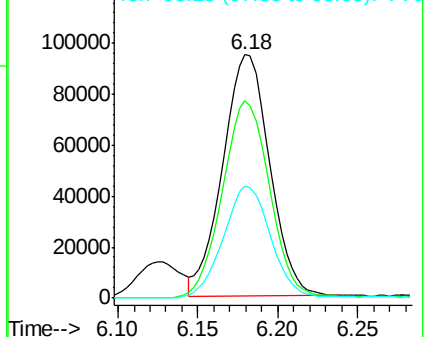
98 47.3 37.0 55.4

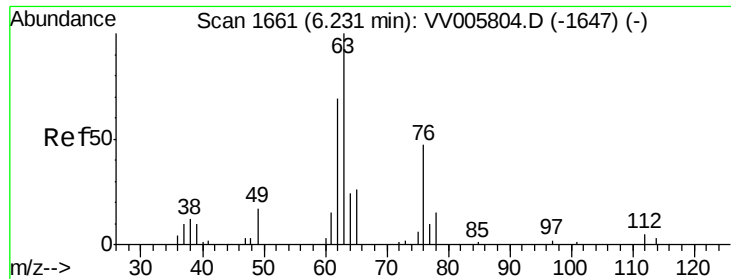


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

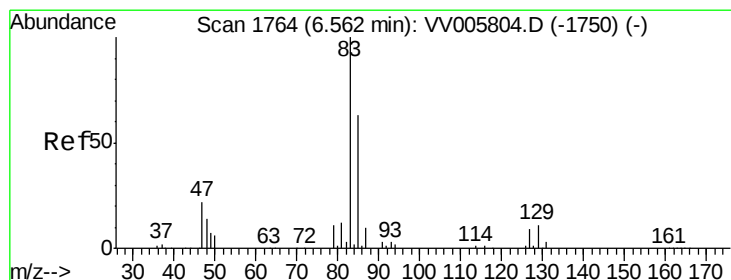
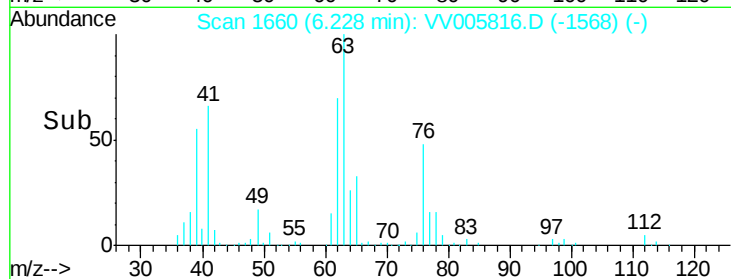
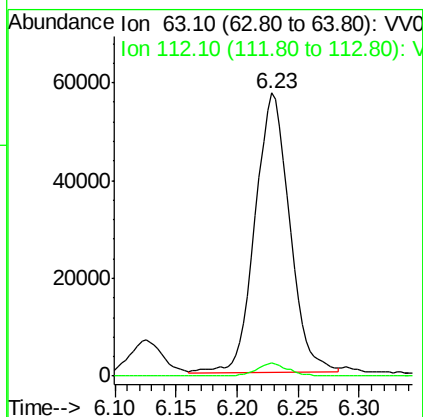
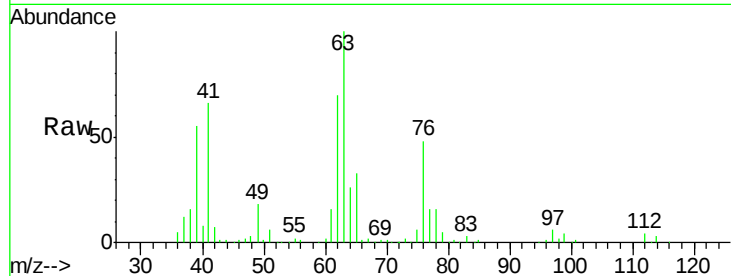




#37
 1,2-Dichloropropane
 Concen: 4.86 ug/L
 RT: 6.23 min Scan# 1660
 Delta R.T. -0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

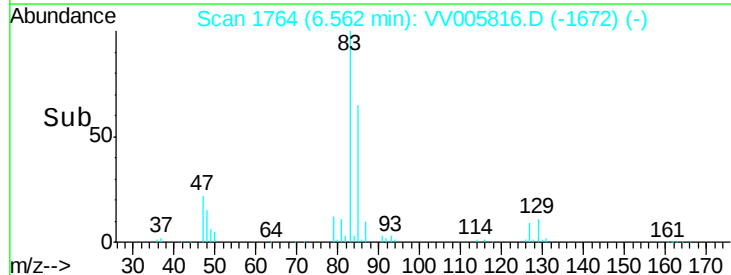
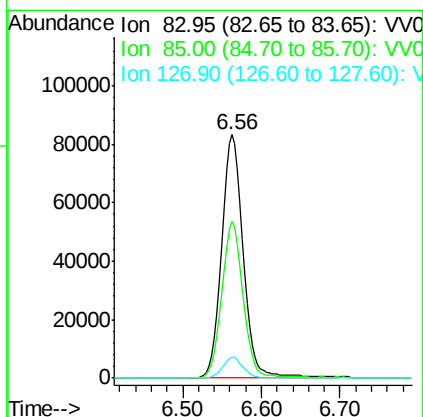
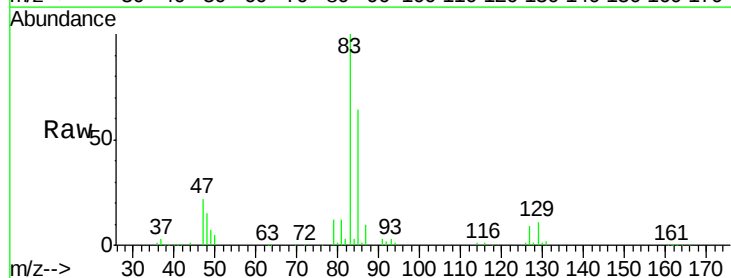
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00598

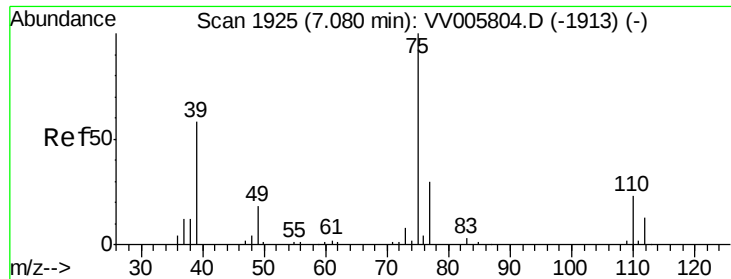
Tgt Ion: 63 Resp: 111573
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.5 5.3



#38
 Bromodichloromethane
 Concen: 4.86 ug/L
 RT: 6.56 min Scan# 1764
 Delta R.T. -0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

Tgt Ion: 83 Resp: 156522
 Ion Ratio Lower Upper
 83 100
 85 64.2 45.4 84.2
 127 8.7 7.4 11.0

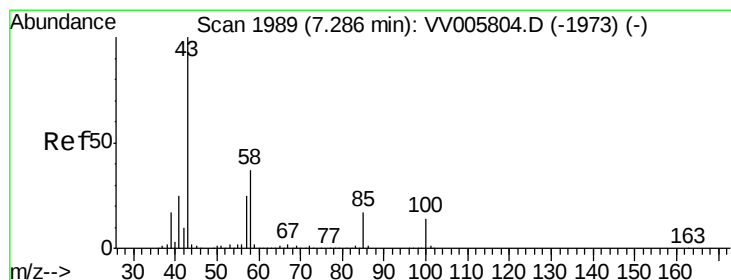
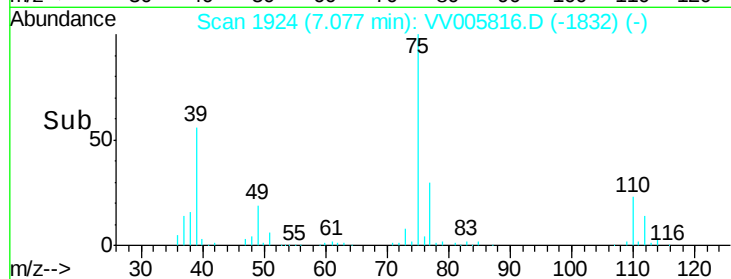
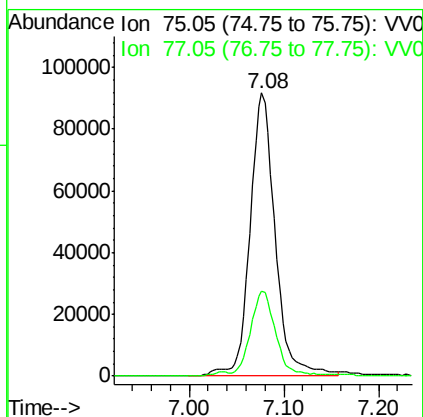
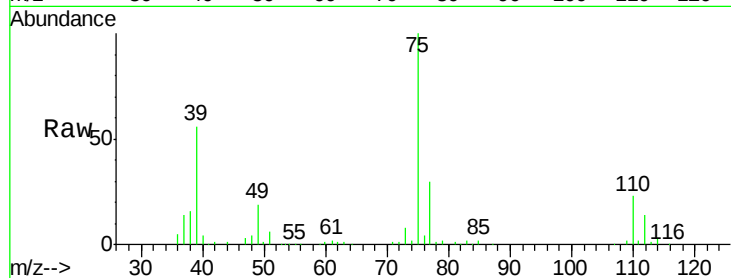




#39
 cis-1,3-Dichloropropene
 Concen: 5.13 ug/L
 RT: 7.08 min Scan# 1924
 Delta R.T. -0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

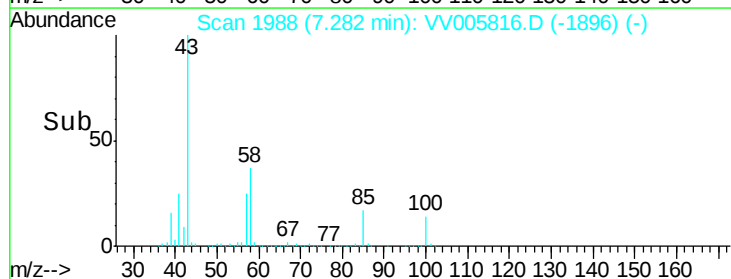
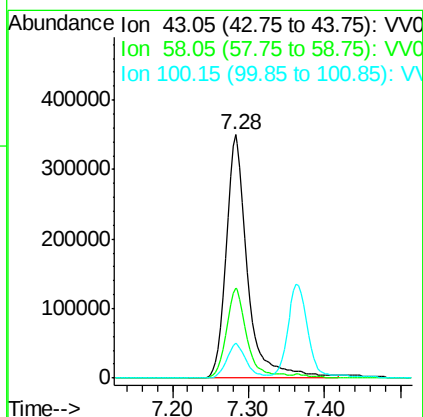
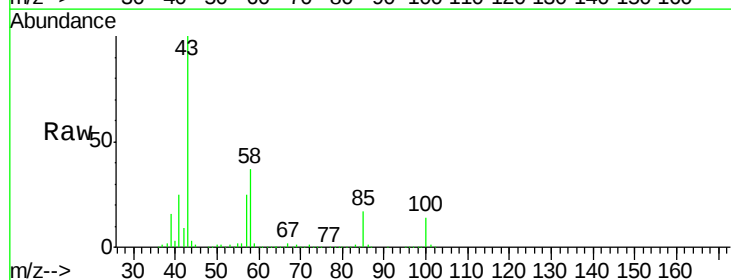
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00598

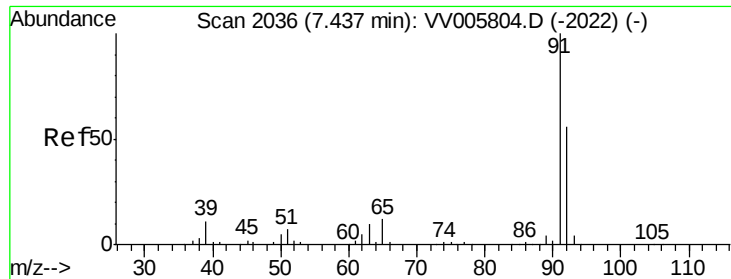
Tgt Ion: 75 Resp: 170379
 Ion Ratio Lower Upper
 75 100
 77 30.2 21.8 40.4



#40
 4-Methyl-2-pentanone
 Concen: 48.49 ug/L
 RT: 7.28 min Scan# 1988
 Delta R.T. -0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

Tgt Ion: 43 Resp: 690329
 Ion Ratio Lower Upper
 43 100
 58 35.6 28.2 42.4
 100 13.2 10.2 15.4





#42

Toluene

Concen: 5.02 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

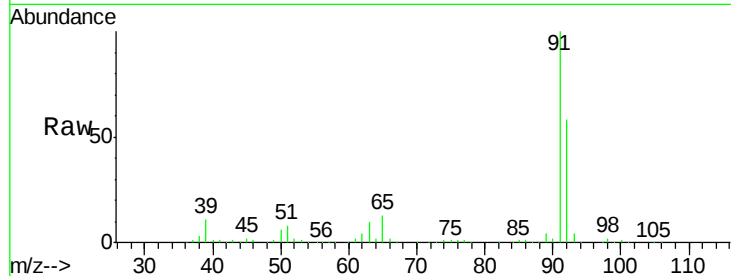
VSTD00598

Tgt Ion: 91 Resp: 510715

Ion Ratio Lower Upper

91 100

92 58.1 40.0 74.4



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.44

300000

250000

200000

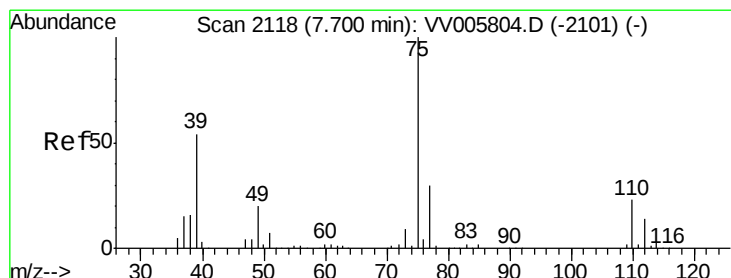
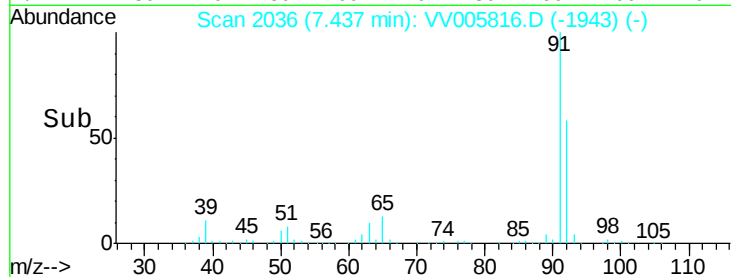
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#44

trans-1,3-Dichloropropene

Concen: 5.13 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VV005816.D

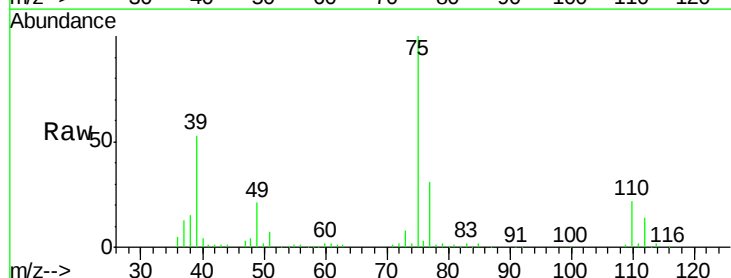
Acq: 07 May 2018 13:37

Tgt Ion: 75 Resp: 141981

Ion Ratio Lower Upper

75 100

77 30.7 22.2 41.2



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.70

80000

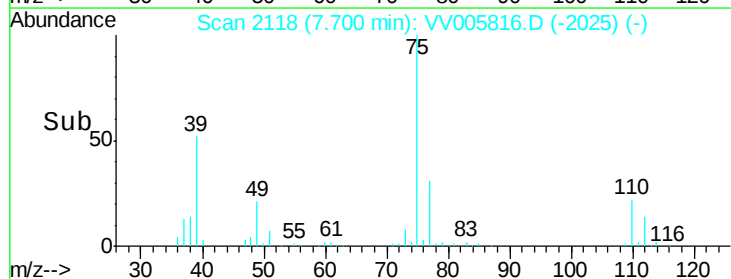
60000

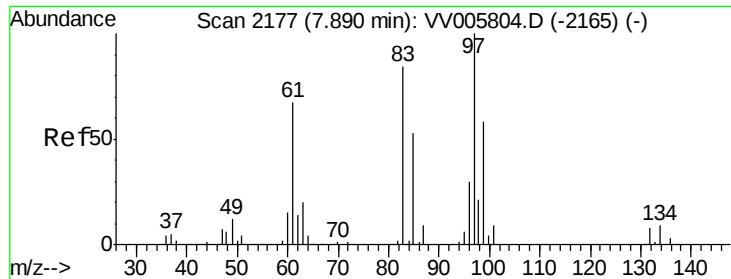
40000

20000

0

Time--> 7.60 7.70 7.80

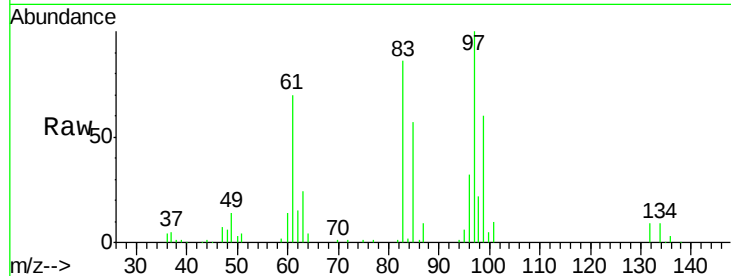




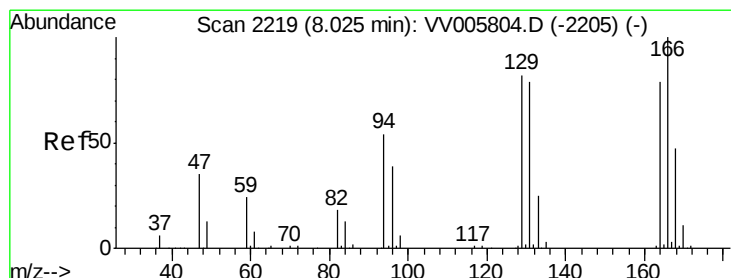
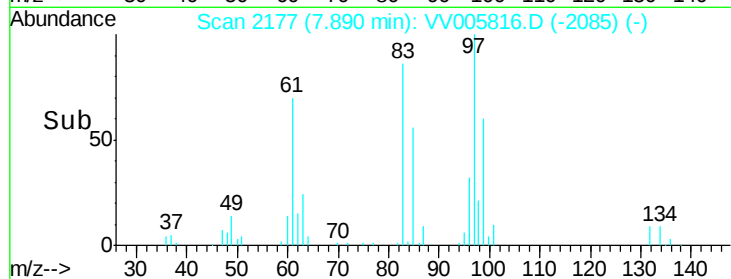
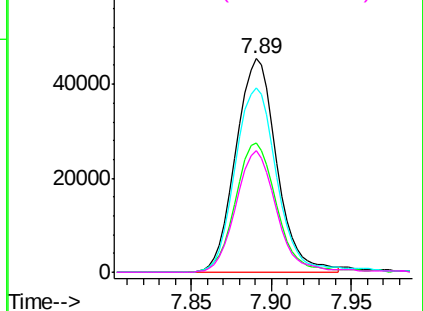
#45
 1,1,2-Trichloroethane
 Concen: 4.64 ug/L
 RT: 7.89 min Scan# 2177
 Delta R.T. -0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00598

Tgt Ion:	97	Resp:	79516
Ion	Ratio	Lower	Upper
97	100		
99	60.4	42.4	78.8
83	86.5	61.7	114.7
85	56.8	37.9	70.5

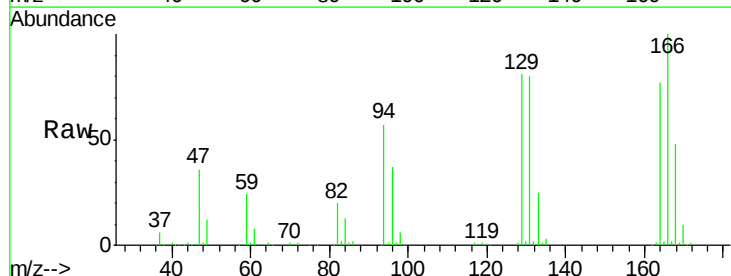


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

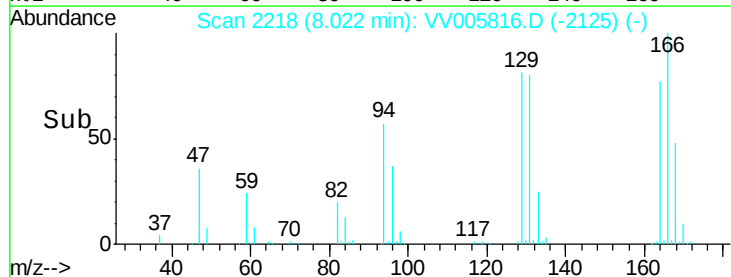
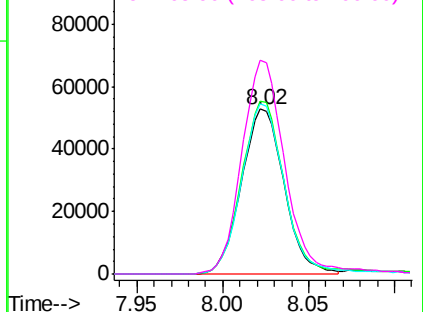


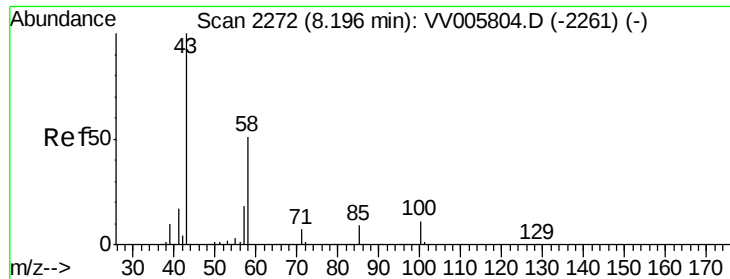
#47
 Tetrachloroethene
 Concen: 4.91 ug/L
 RT: 8.02 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

Tgt Ion:	164	Resp:	91021
Ion	Ratio	Lower	Upper
164	100		
129	104.9	71.2	132.2
131	103.6	70.6	131.0
166	129.7	87.8	163.2



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

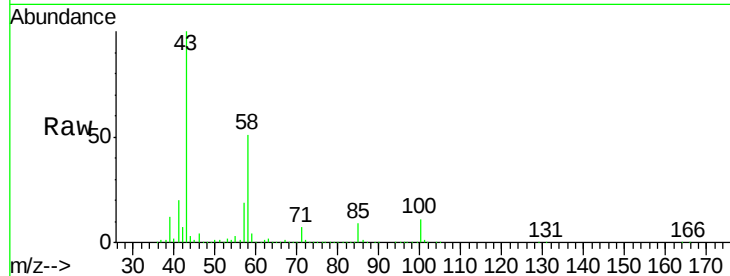




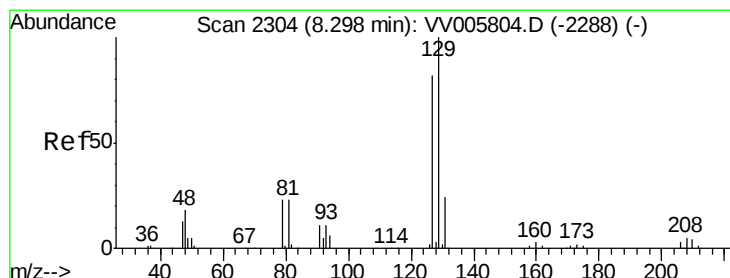
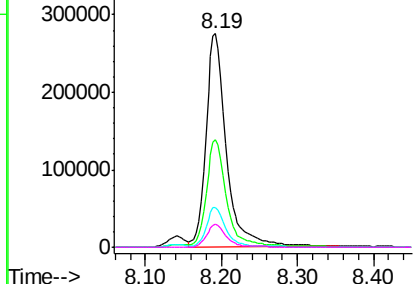
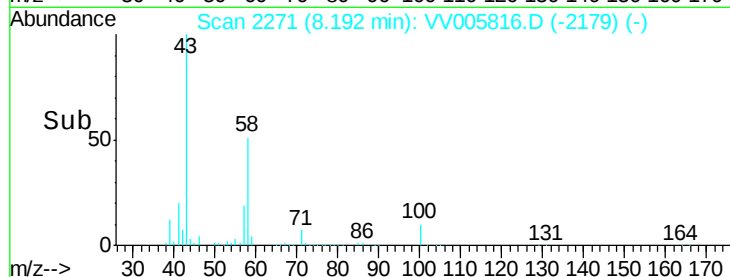
#48
2-Hexanone
Concen: 48.91 ug/L
RT: 8.19 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VV005816.D
Acq: 07 May 2018 13:37

Instrument :
MSVOA_V
ClientSampleId :
VSTD00598

Tgt Ion: 43 Resp: 514269
Ion Ratio Lower Upper
43 100
58 48.5 40.2 60.2
57 17.6 14.6 22.0
100 10.8 8.6 12.8

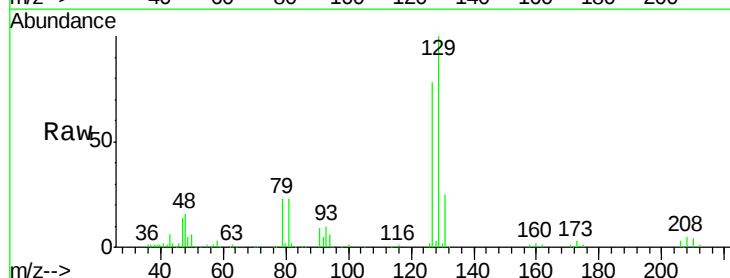


Abundance Ion 43.05 (42.75 to 43.75): VV005816.D (-2179) (-)
Ion 58.05 (57.75 to 58.75): VV005816.D (-2179) (-)
Ion 57.20 (56.90 to 57.90): VV005816.D (-2179) (-)
Ion 100.15 (99.85 to 100.85): VV005816.D (-2179) (-)

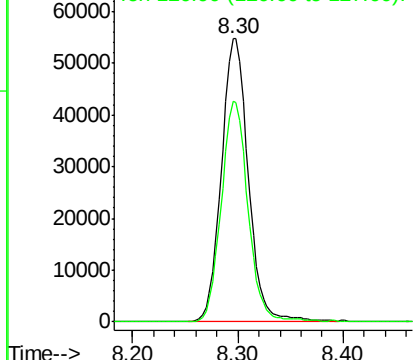
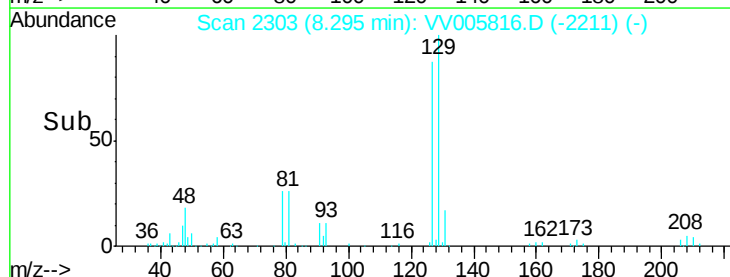


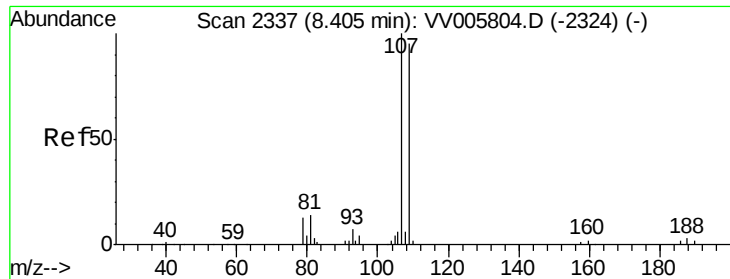
#49
Dibromochloromethane
Concen: 4.89 ug/L
RT: 8.30 min Scan# 2303
Delta R.T. -0.00 min
Lab File: VV005816.D
Acq: 07 May 2018 13:37

Tgt Ion: 129 Resp: 97074
Ion Ratio Lower Upper
129 100
127 78.2 55.4 103.0



Abundance Ion 128.95 (128.65 to 129.65): VV005816.D (-2211) (-)
Ion 126.90 (126.60 to 127.60): VV005816.D (-2211) (-)

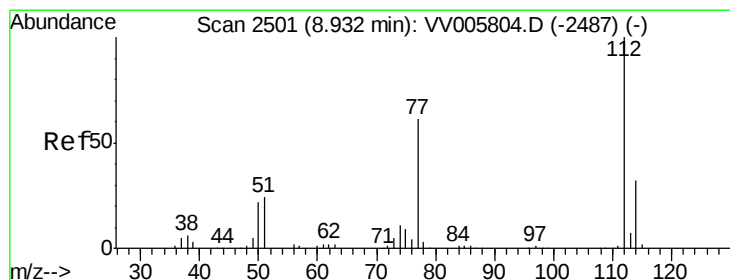
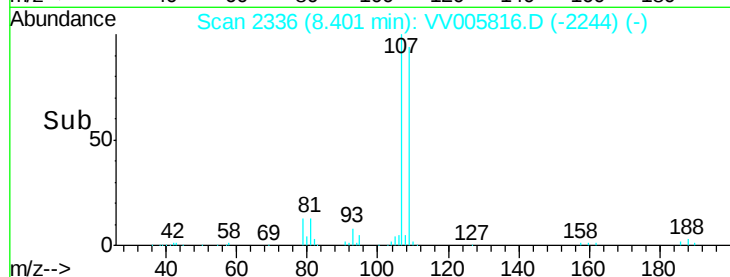
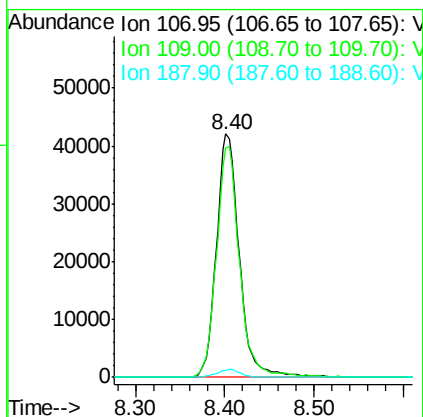
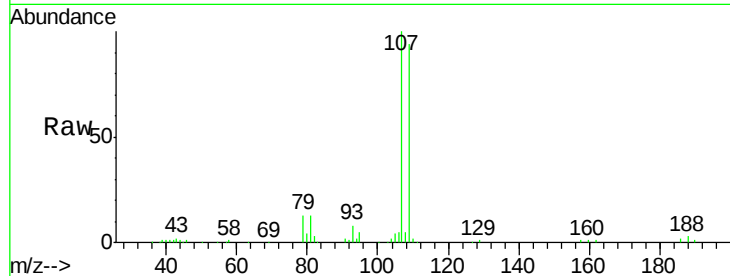




#50
1,2-Dibromoethane
Concen: 4.73 ug/L
RT: 8.40 min Scan# 2336
Delta R.T. -0.00 min
Lab File: VV005816.D
Acq: 07 May 2018 13:37

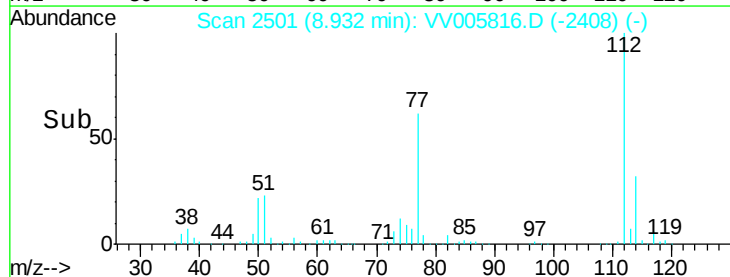
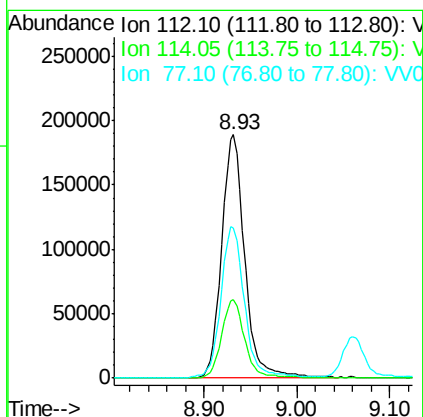
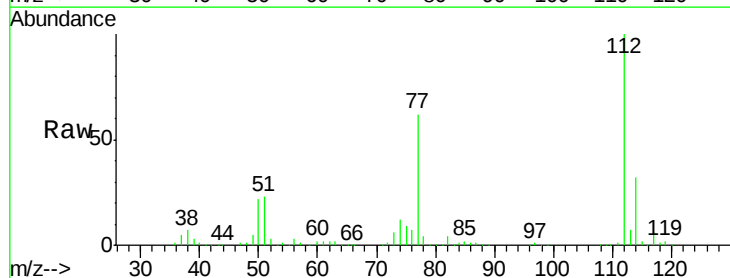
Instrument :
MSVOA_V
ClientSampleId :
VSTD00598

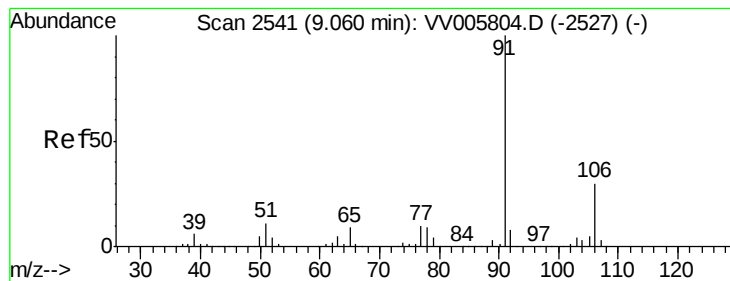
Tgt Ion:107 Resp: 74916
Ion Ratio Lower Upper
107 100
109 94.4 63.2 117.4
188 3.0 2.4 3.6



#51
Chlorobenzene
Concen: 4.90 ug/L
RT: 8.93 min Scan# 2501
Delta R.T. 0.00 min
Lab File: VV005816.D
Acq: 07 May 2018 13:37

Tgt Ion:112 Resp: 327073
Ion Ratio Lower Upper
112 100
114 32.0 22.7 42.1
77 61.8 48.8 73.2





#52

Ethylbenzene

Concen: 5.17 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

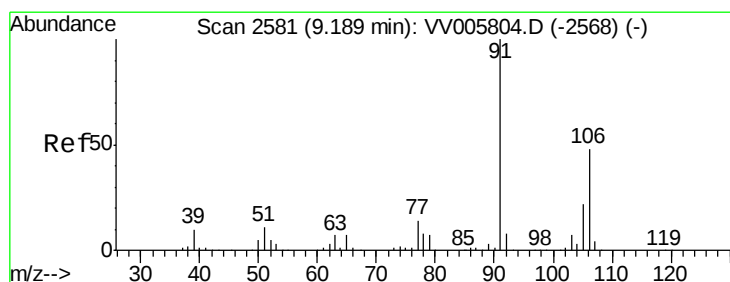
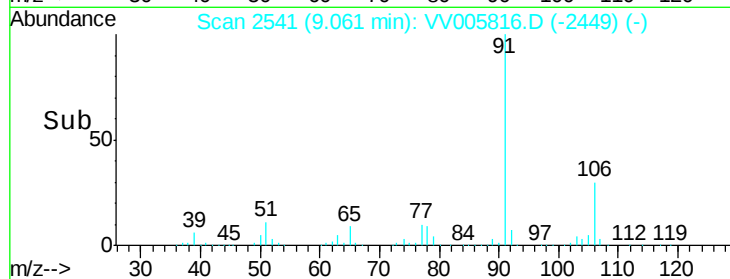
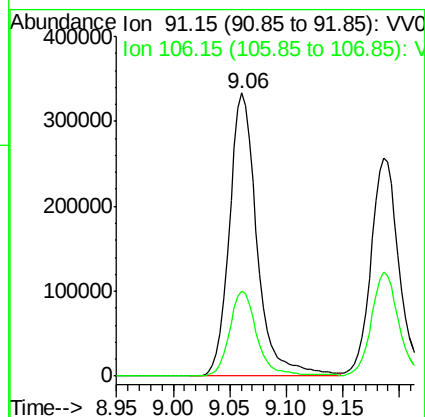
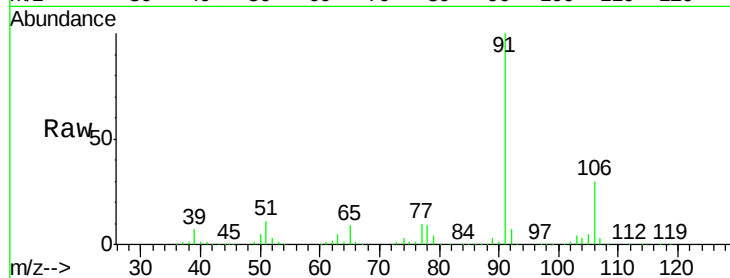
VSTD00598

Tgt Ion: 91 Resp: 568507

Ion Ratio Lower Upper

91 100

106 30.0 20.4 38.0



#53

m,p-xylene

Concen: 5.27 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. -0.00 min

Lab File: VV005816.D

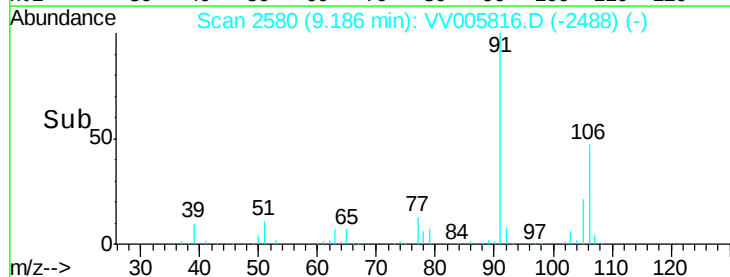
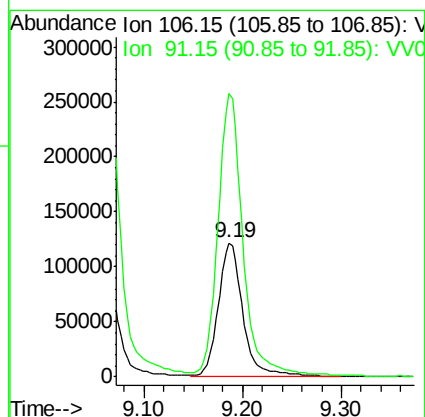
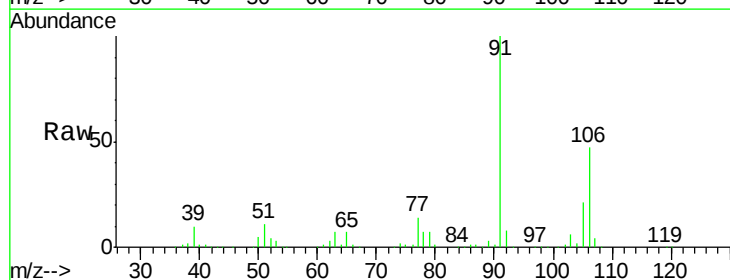
Acq: 07 May 2018 13:37

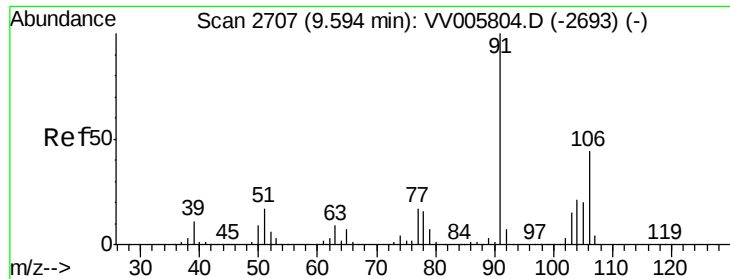
Tgt Ion: 106 Resp: 211773

Ion Ratio Lower Upper

106 100

91 210.9 146.1 271.3





#54

o-xylene

Concen: 5.32 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

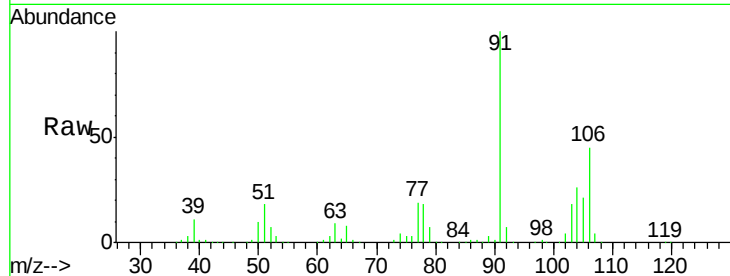
VSTD00598

Tgt Ion:106 Resp: 206288

Ion Ratio Lower Upper

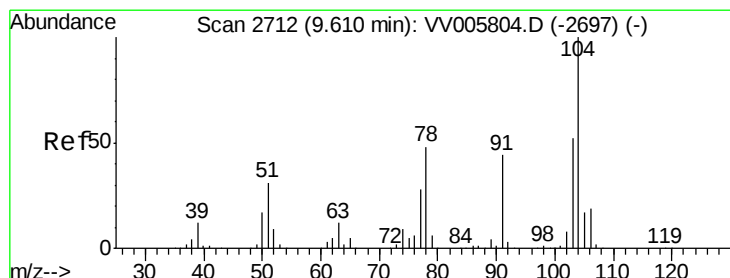
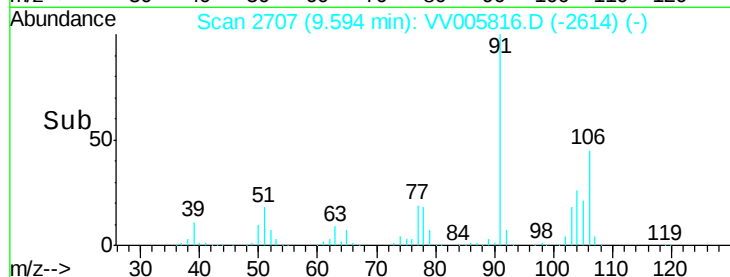
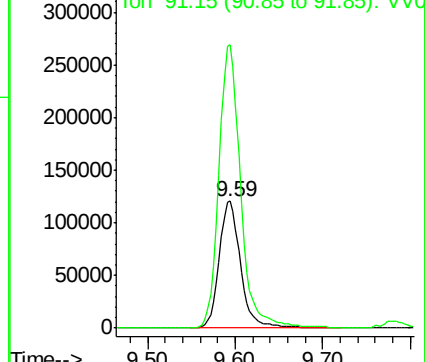
106 100

91 223.2 157.8 293.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.39 ug/L

RT: 9.61 min Scan# 2712

Delta R.T. 0.00 min

Lab File: VV005816.D

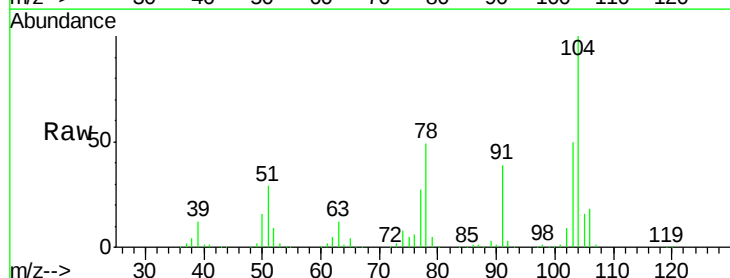
Acq: 07 May 2018 13:37

Tgt Ion:104 Resp: 348388

Ion Ratio Lower Upper

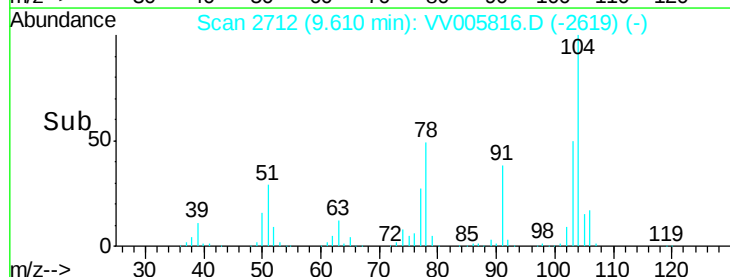
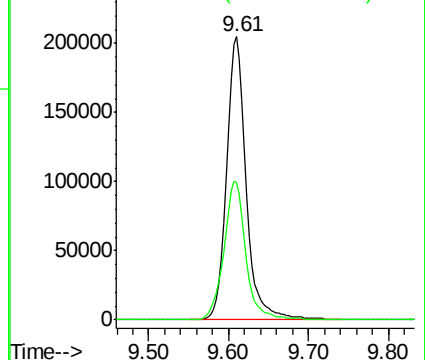
104 100

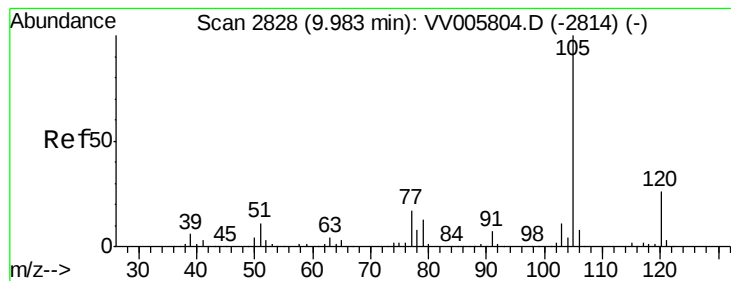
78 48.7 35.1 65.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.47 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. -0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00598

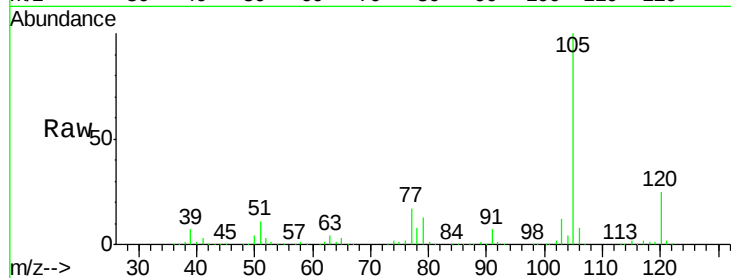
Tgt Ion: 105 Resp: 570718

Ion Ratio Lower Upper

105 100

120 25.2 20.6 31.0

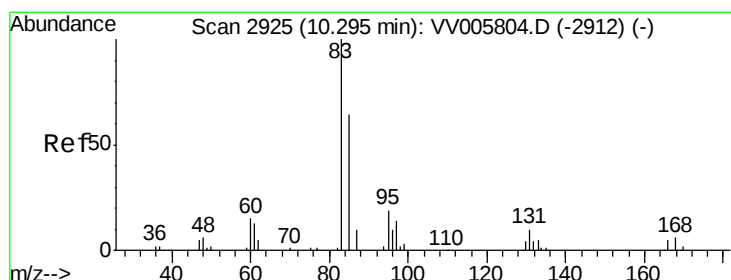
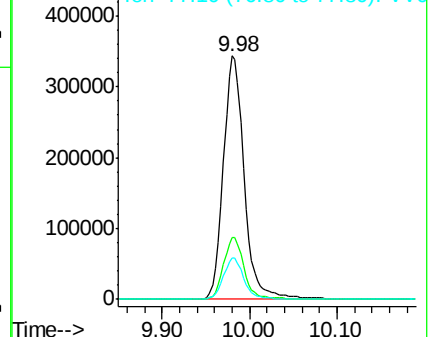
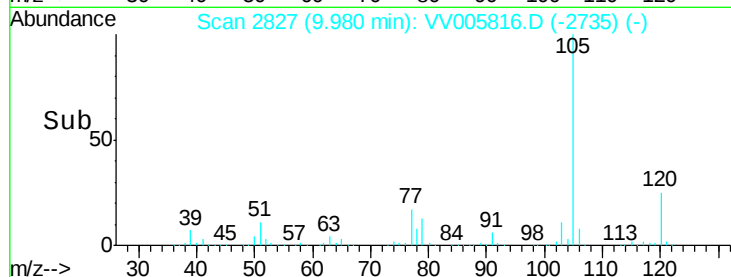
77 17.0 14.4 21.6



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: 4.81 ug/L

RT: 10.29 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

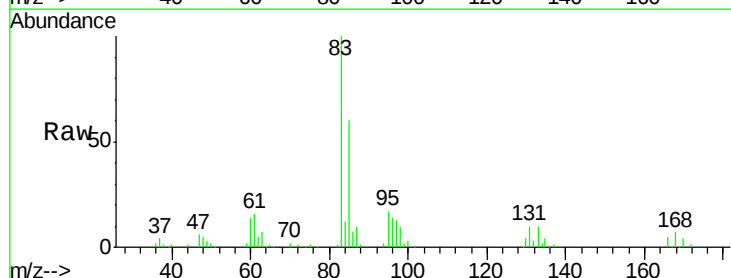
Tgt Ion: 83 Resp: 91123

Ion Ratio Lower Upper

83 100

85 60.2 43.6 81.0

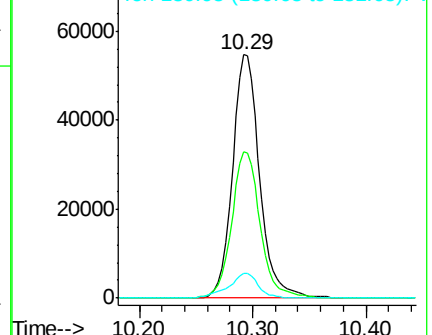
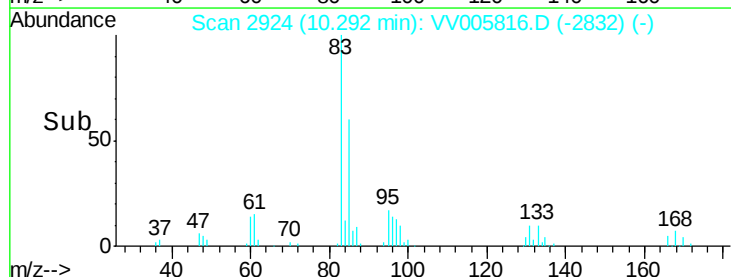
131 10.2 7.4 11.2

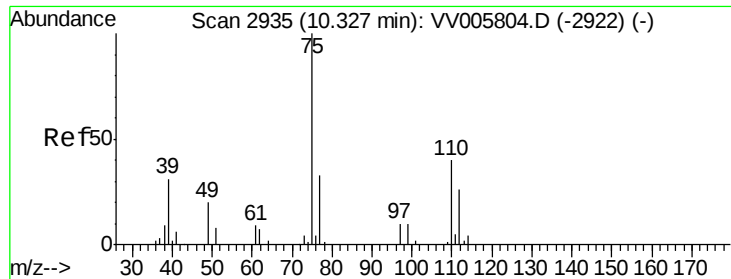


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V

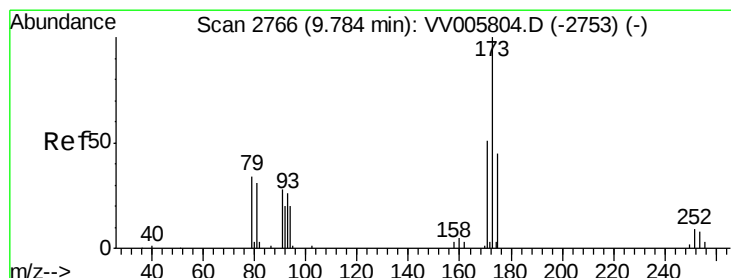
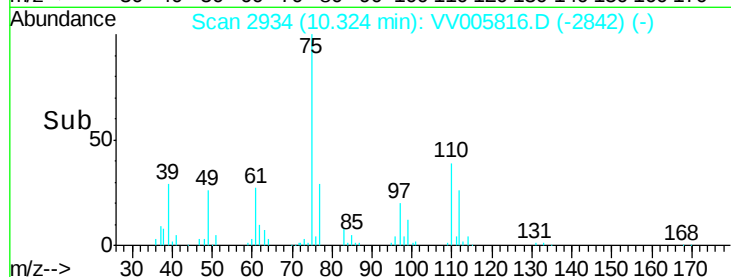
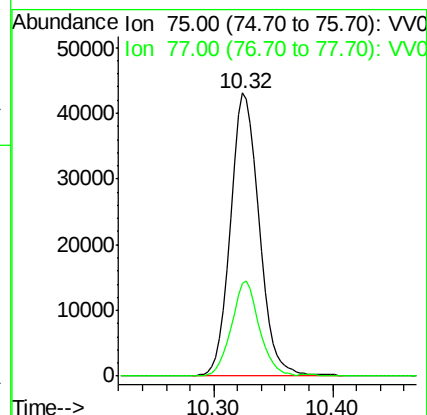
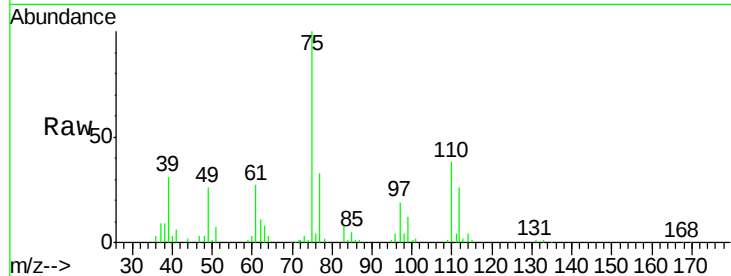




#59
 1,2,3-Trichloropropane
 Concen: 4.73 ug/L
 RT: 10.32 min Scan# 2934
 Delta R.T. -0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

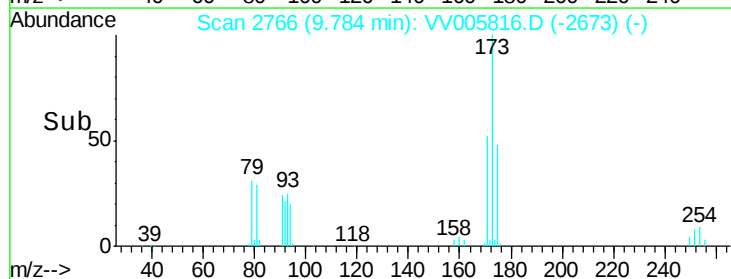
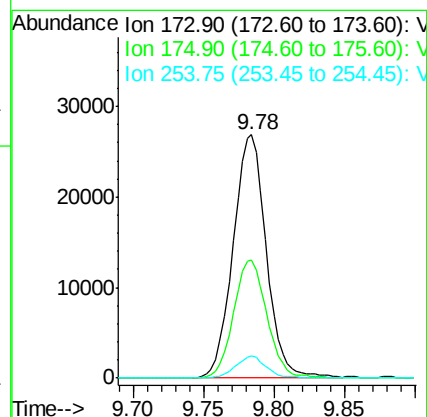
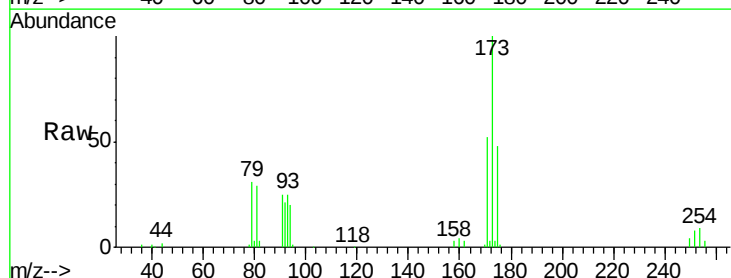
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00598

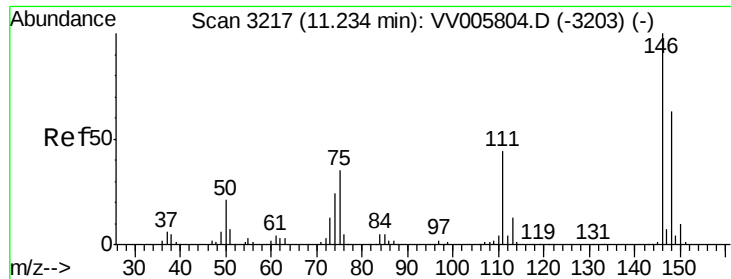
Tgt Ion: 75 Resp: 72211
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.5 38.3



#61
 Bromoform
 Concen: 4.47 ug/L
 RT: 9.78 min Scan# 2766
 Delta R.T. 0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

Tgt Ion: 173 Resp: 44301
 Ion Ratio Lower Upper
 173 100
 175 48.7 36.6 54.8
 254 8.3 5.5 8.3#





#62

1,3-Dichlorobenzene

Concen: 4.94 ug/L

RT: 11.23 min Scan# 3217

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00598

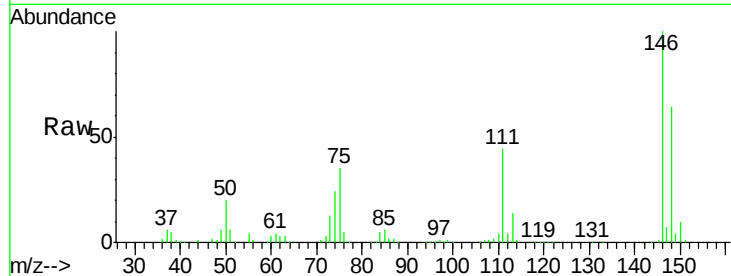
Tgt Ion:146 Resp: 244498

Ion Ratio Lower Upper

146 100

111 43.7 31.1 57.7

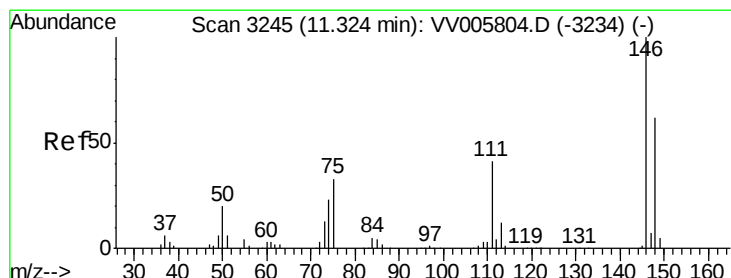
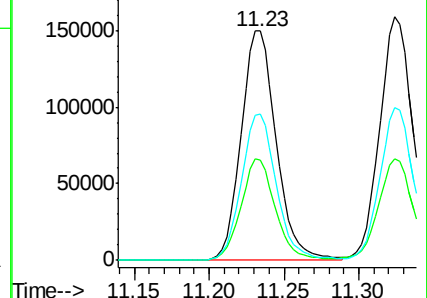
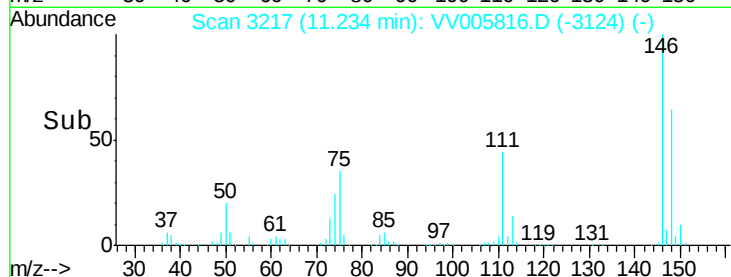
148 63.9 44.5 82.7



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: 4.89 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

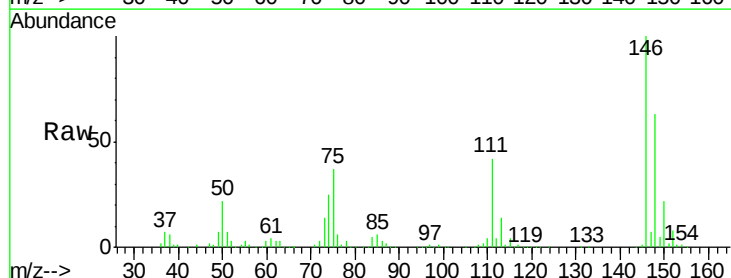
Tgt Ion:146 Resp: 252208

Ion Ratio Lower Upper

146 100

111 41.9 28.6 53.2

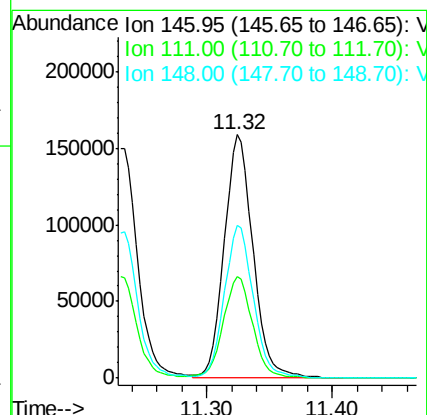
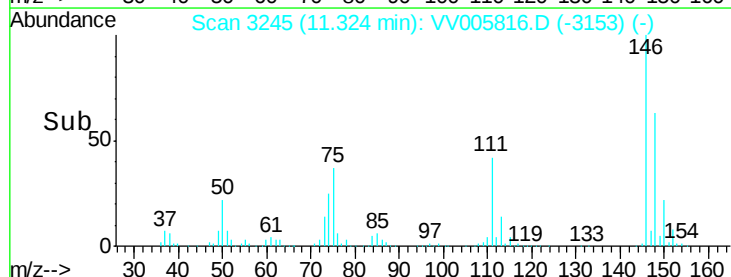
148 62.9 46.2 85.8

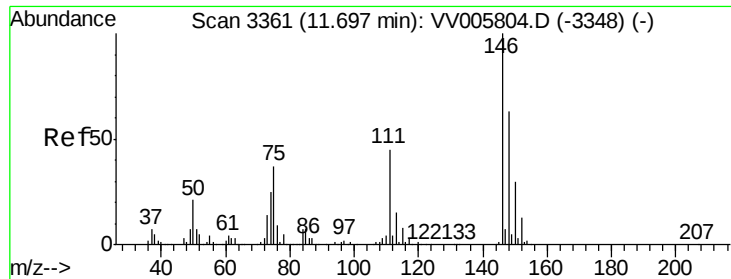


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 4.81 ug/L

RT: 11.70 min Scan# 3361

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00598

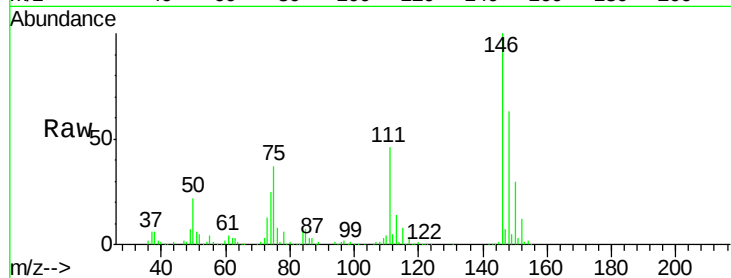
Tgt Ion:146 Resp: 233806

Ion Ratio Lower Upper

146 100

111 46.1 37.0 55.6

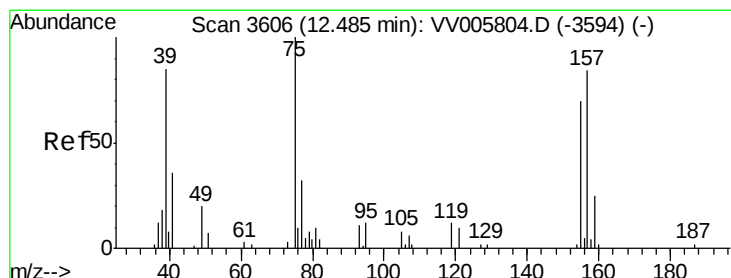
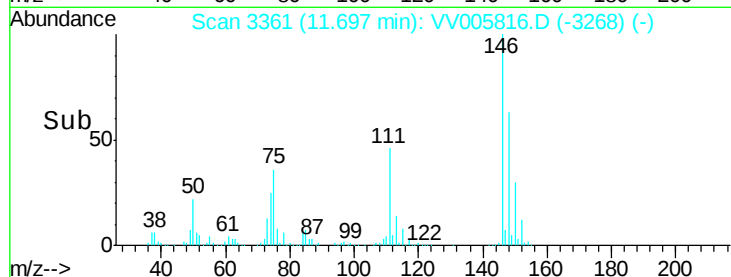
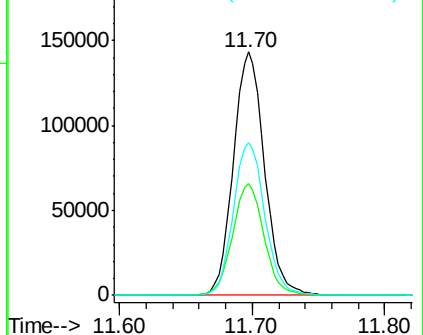
148 62.9 50.9 76.3



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: 4.60 ug/L

RT: 12.48 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

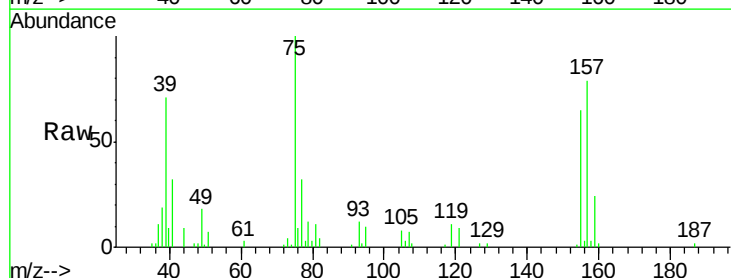
Tgt Ion: 75 Resp: 14855

Ion Ratio Lower Upper

75 100

155 65.4 56.1 84.1

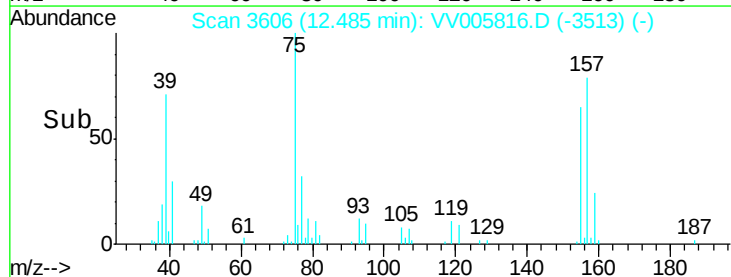
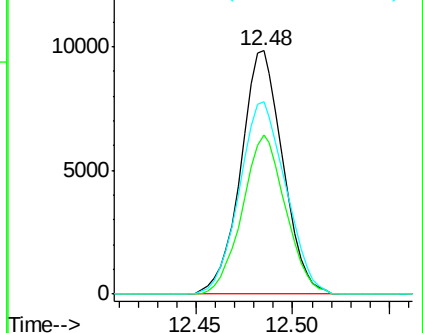
157 79.2 81.0 121.4#

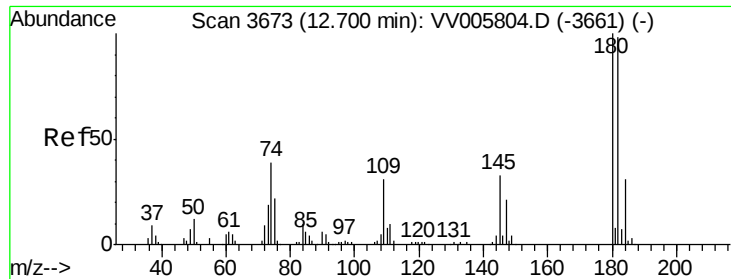


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

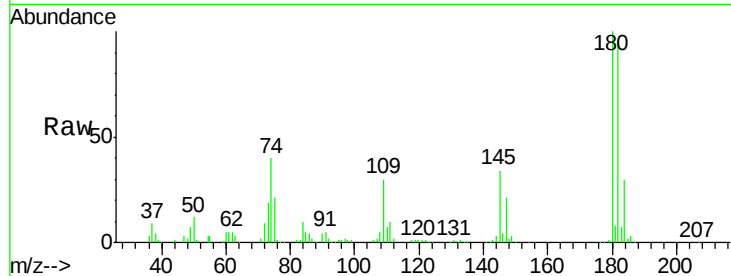




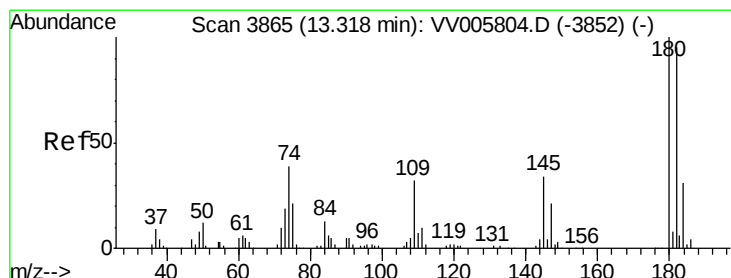
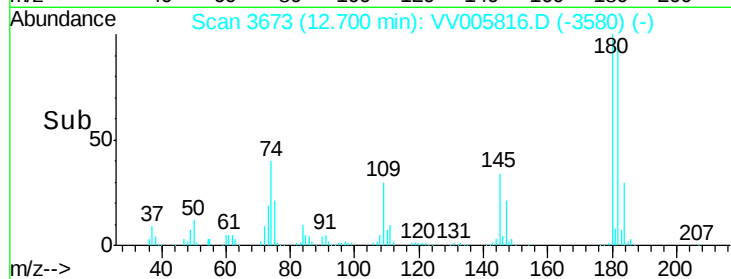
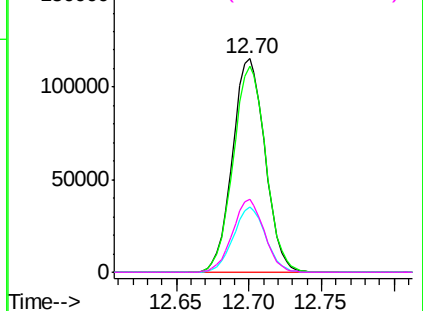
#67
 1,3,5-Trichlorobenzene
 Concen: 4.98 ug/L
 RT: 12.70 min Scan# 3673
 Delta R.T. 0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00598

Tgt Ion:180 Resp: 179299
 Ion Ratio Lower Upper
 180 100
 182 96.5 75.4 113.0
 184 30.1 24.6 36.8
 145 33.1 26.0 39.0

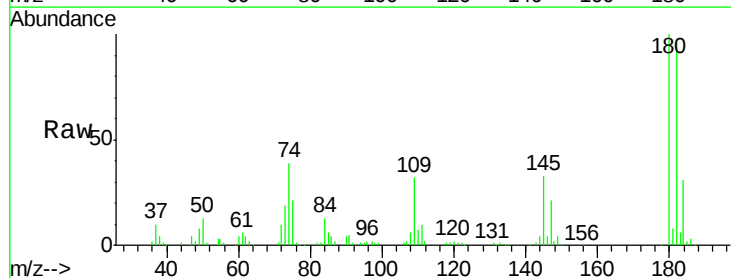


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

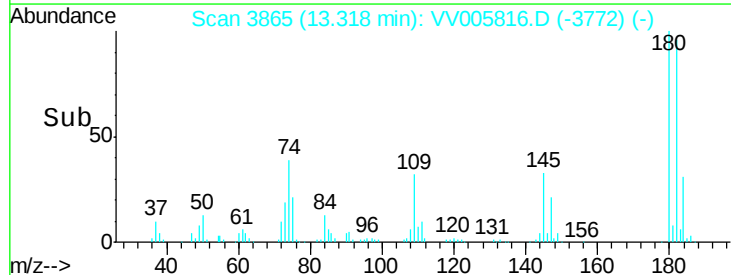
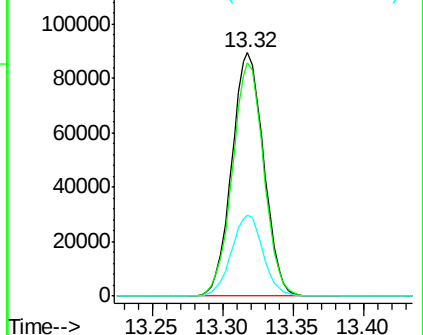


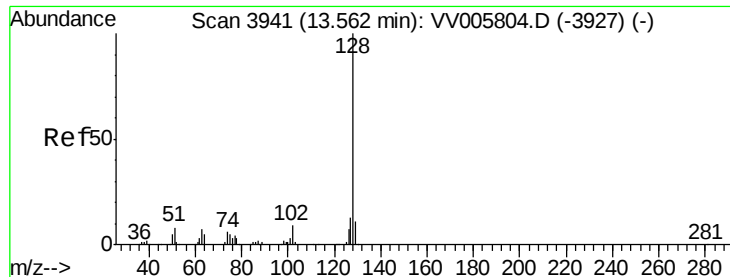
#68
 1,2,4-trichlorobenzene
 Concen: 5.27 ug/L
 RT: 13.32 min Scan# 3865
 Delta R.T. 0.00 min
 Lab File: VV005816.D
 Acq: 07 May 2018 13:37

Tgt Ion:180 Resp: 141651
 Ion Ratio Lower Upper
 180 100
 182 94.1 76.4 114.6
 145 32.9 27.2 40.8



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: 5.10 ug/L

RT: 13.56 min Scan# 3941

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

Instrument :

MSVOA_V

ClientSampleId :

VSTD00598

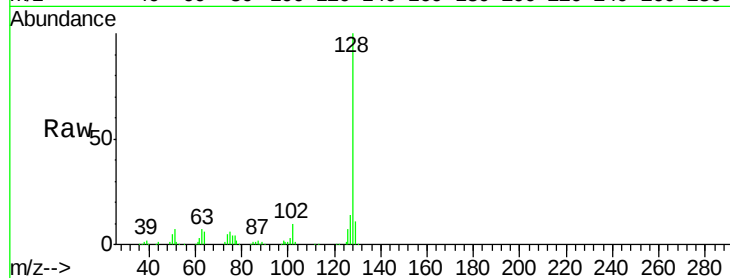
Tgt Ion:128 Resp: 218906

Ion Ratio Lower Upper

128 100

129 10.7 9.1 13.7

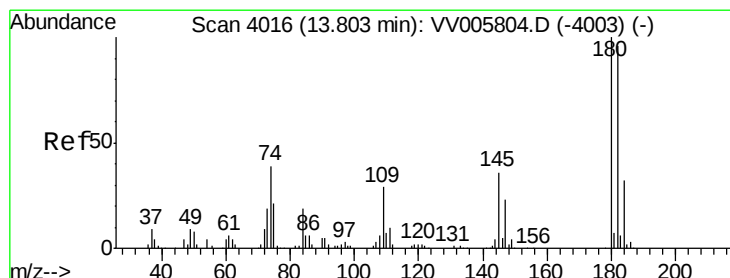
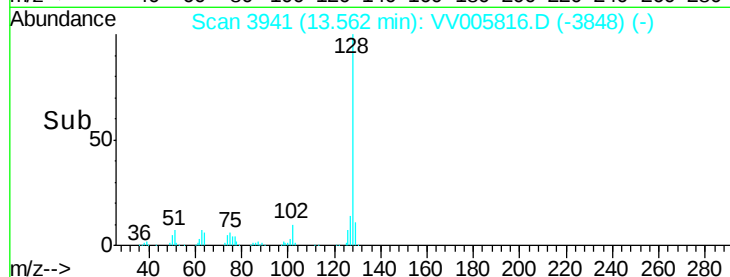
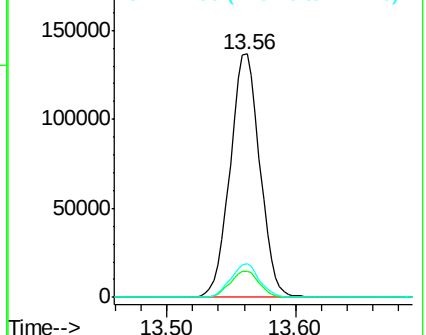
127 13.3 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.24 ug/L

RT: 13.80 min Scan# 4016

Delta R.T. 0.00 min

Lab File: VV005816.D

Acq: 07 May 2018 13:37

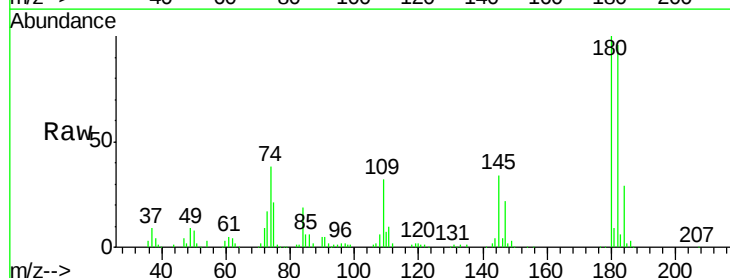
Tgt Ion:180 Resp: 134551

Ion Ratio Lower Upper

180 100

182 96.3 75.8 113.6

145 34.3 28.0 42.0



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

