

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV092318\
 Data File : VV007778.D
 Acq On : 23 Sep 2018 10:39
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0 mL/MSVOA_V/WATER
 ALS Vial : 56 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05071

Quant Time: Sep 24 05:18:24 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092318WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Sep 24 05:16:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	179666	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	177799	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	103529	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	42856	43.89	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	87.78%
7) Chloroethane-d5	1.58	69	43062	48.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	97.06%
11) 1,1-Dichloroethene-d2	2.14	63	106556	46.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.56%
21) 2-Butanone-d5	3.95	46	63756	98.86	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.86%
24) Chloroform-d	4.41	84	103870	49.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.36%
26) 1,2-Dichloroethane-d4	5.09	65	68118	51.08	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.16%
32) Benzene-d6	5.10	84	194112	47.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.00%
36) 1,2-Dichloropropane-d6	6.12	67	58422	48.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.82%
41) Toluene-d8	7.36	98	202402	47.39	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.78%
43) trans-1,3-Dichloropropene-	7.67	79	27241	44.77	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.54%
47) 2-Hexanone-d5	8.14	63	49855	93.81	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	93.81%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	92138	48.91	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.82%
64) 1,2-Dichlorobenzene-d4	11.68	152	98943	46.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.92%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	56382	45.198	ug/L 98
3) Chloromethane	1.25	50	47779	47.654	ug/L 100
5) Vinyl chloride	1.32	62	52956	45.599	ug/L 99
6) Bromomethane	1.53	94	57670	63.483	ug/L 98
8) Chloroethane	1.60	64	37054	47.720	ug/L 100
9) Trichlorofluoromethane	1.77	101	111047	46.367	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	63668	46.870	ug/L 99
12) 1,1-Dichloroethene	2.14	96	56355	47.291	ug/L 96
13) Acetone	2.19	43	54313	79.801	ug/L 98
14) Carbon disulfide	2.32	76	138197	43.777	ug/L 99
15) Methyl Acetate	2.46	43	62155	51.592	ug/L 100
16) Methylene chloride	2.54	84	67420	51.584	ug/L 97
17) trans-1,2-Dichloroethene	2.79	96	64131	47.704	ug/L 99
18) Methyl tert-butyl Ether	2.81	73	206262	51.992	ug/L 100
19) 1,1-Dichloroethane	3.23	63	83610	49.226	ug/L 99
20) cis-1,2-Dichloroethene	3.96	96	59803	49.600	ug/L 98
22) 2-Butanone	4.03	43	67461	91.568	ug/L 98

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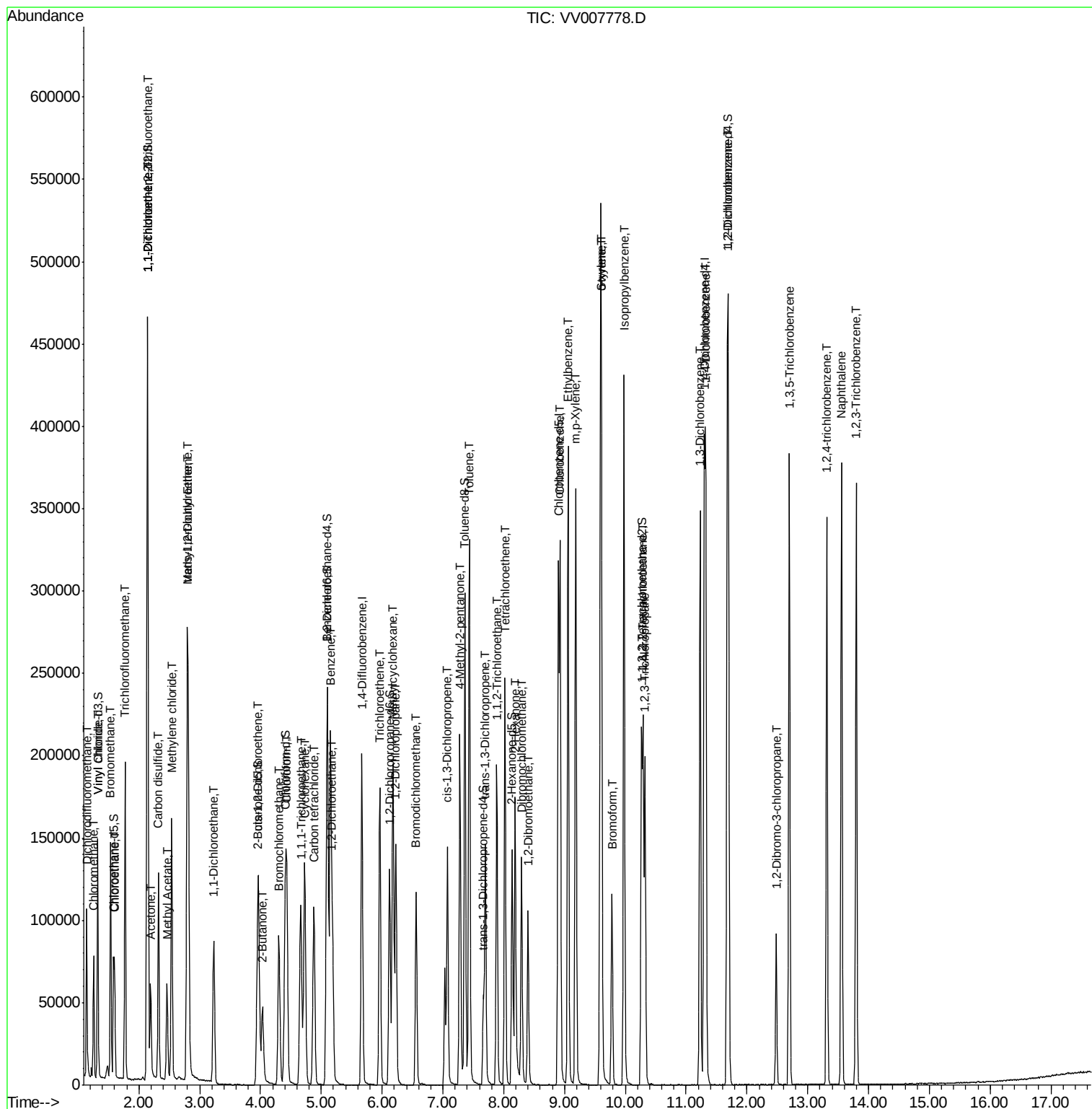
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	34469	51.584	ug/L	96
25) Chloroform	4.43	83	103385	51.347	ug/L	99
27) 1,2-Dichloroethane	5.19	62	82767	50.677	ug/L	99
29) Cyclohexane	4.73	56	68739	44.210	ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	88585	46.555	ug/L	99
31) Carbon tetrachloride	4.88	117	80312	45.683	ug/L	100
33) Benzene	5.15	78	207101	48.628	ug/L	100
34) Trichloroethene	5.96	95	59021	46.859	ug/L	99
35) Methylcyclohexane	6.18	83	83937	43.510	ug/L	99
37) 1,2-Dichloropropane	6.23	63	52471	48.934	ug/L	99
38) Bromodichloromethane	6.56	83	73768	50.040	ug/L	95
39) cis-1,3-Dichloropropene	7.07	75	80213	46.534	ug/L	99
40) 4-Methyl-2-pentanone	7.28	43	138017	97.334	ug/L	100
42) Toluene	7.43	91	244017	48.337	ug/L	98
44) trans-1,3-Dichloropropene	7.70	75	75747	46.284	ug/L	100
45) 1,1,2-Trichloroethane	7.89	97	59820	49.645	ug/L	99
46) Tetrachloroethene	8.02	164	58812	45.622	ug/L	98
48) 2-Hexanone	8.19	43	106288	97.309	ug/L	96
49) Dibromochloromethane	8.30	129	69349	50.722	ug/L	98
50) 1,2-Dibromoethane	8.40	107	66628	49.255	ug/L	100
51) Chlorobenzene	8.93	112	176124	48.434	ug/L	99
52) Ethylbenzene	9.06	91	267877	46.937	ug/L	100
53) m,p-Xylene	9.18	106	106222	46.509	ug/L	98
54) o-xylene	9.59	106	106575	47.835	ug/L	97
55) Styrene	9.61	104	185335	48.760	ug/L	100
56) Isopropylbenzene	9.98	105	279927	46.594	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	94602	49.341	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	74419	49.079	ug/L	99
61) Bromoform	9.78	173	52616	48.843	ug/L	100
62) 1,3-Dichlorobenzene	11.23	146	153794	46.851	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	160417	47.114	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	160451	48.341	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	19102	47.587	ug/L	99
67) 1,3,5-Trichlorobenzene	12.70	180	126608	45.924	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	114136	46.128	ug/L	100
69) Naphthalene	13.56	128	304462	47.993	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	118623	47.431	ug/L	98

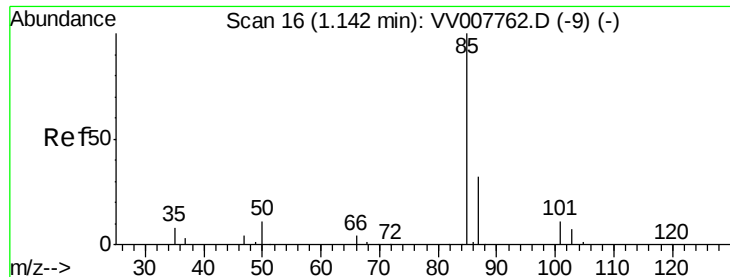
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 45.198 ug/L

RT: 1.14 min Scan# 16

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

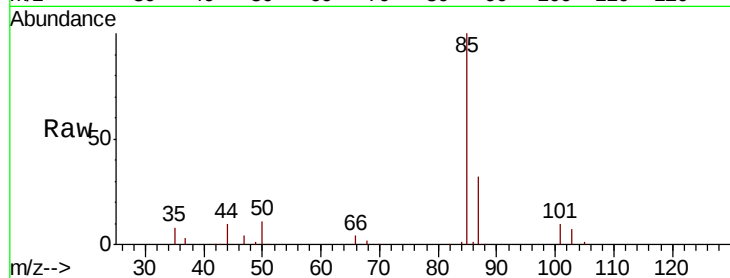
VSTD05071

Tgt Ion: 85 Resp: 56382

Ion Ratio Lower Upper

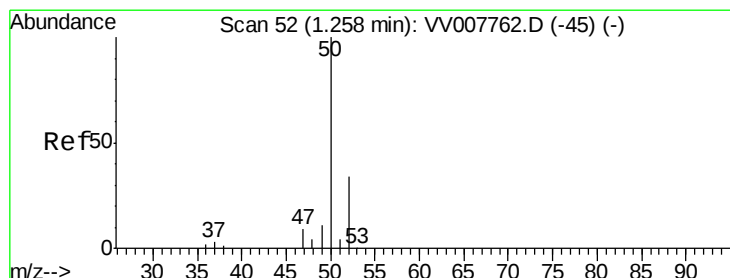
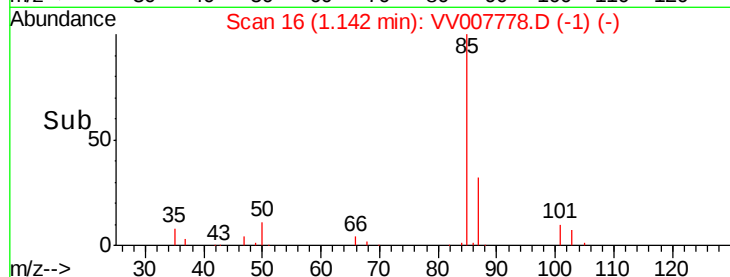
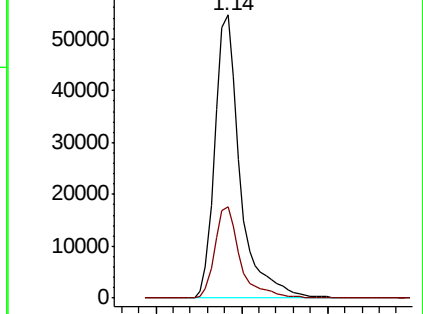
85 100

87 32.4 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VV007762.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VV007762.D (-9) (-)



#3

Chloromethane

Concen: 47.654 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV007778.D

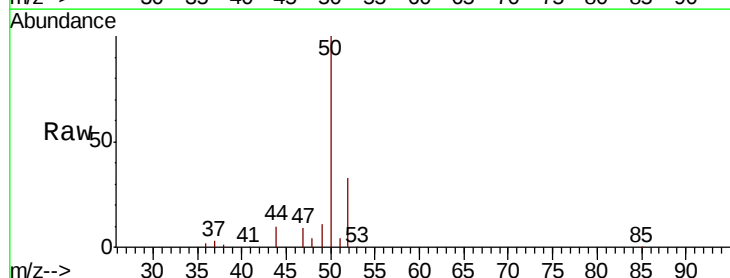
Acq: 23 Sep 2018 10:39

Tgt Ion: 50 Resp: 47779

Ion Ratio Lower Upper

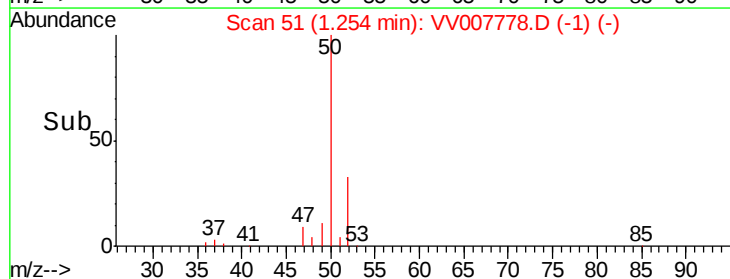
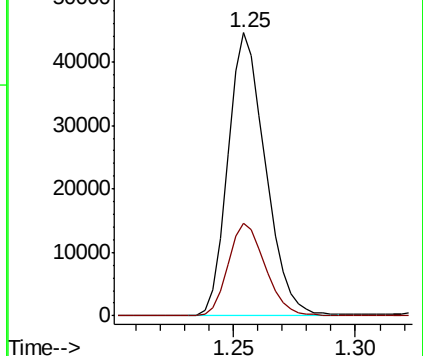
50 100

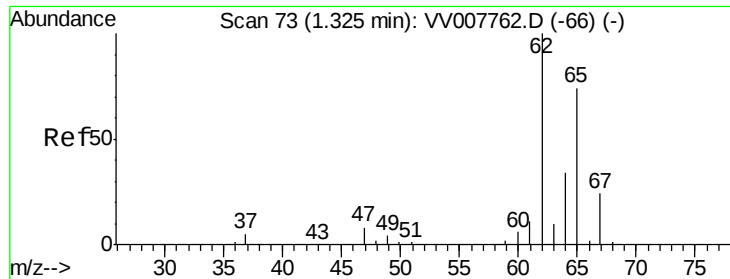
52 32.8 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VV007762.D (-45) (-)

Ion 52.00 (51.70 to 52.70): VV007762.D (-45) (-)





#5

Vinyl chloride

Concen: 45.599 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

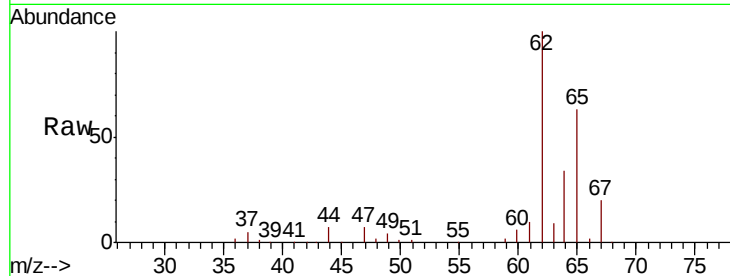
VSTD05071

Tgt Ion: 62 Resp: 52956

Ion Ratio Lower Upper

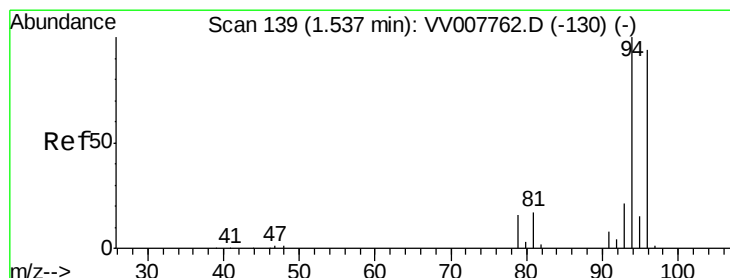
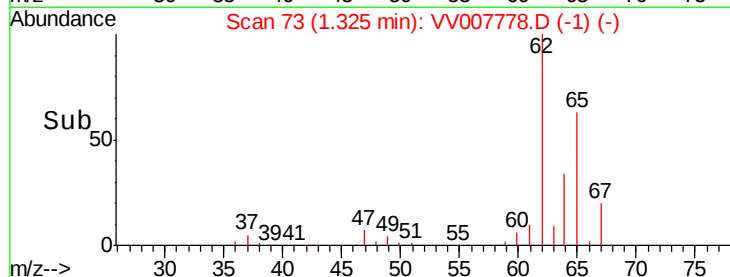
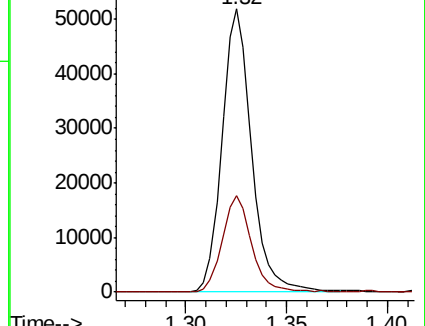
62 100

64 33.9 23.4 43.6



Abundance Ion 62.00 (61.70 to 62.70): VV007762.D (-66) (-)

Ion 64.00 (63.70 to 64.70): VV007762.D (-66) (-)



#6

Bromomethane

Concen: 63.483 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV007778.D

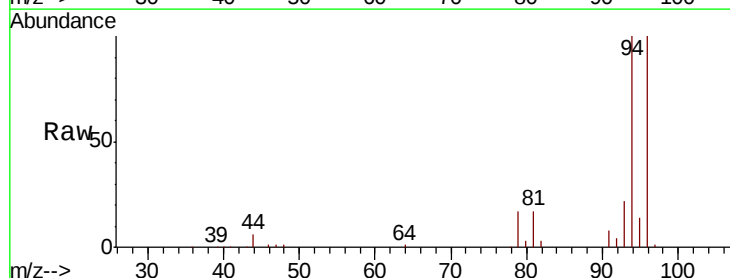
Acq: 23 Sep 2018 10:39

Tgt Ion: 94 Resp: 57670

Ion Ratio Lower Upper

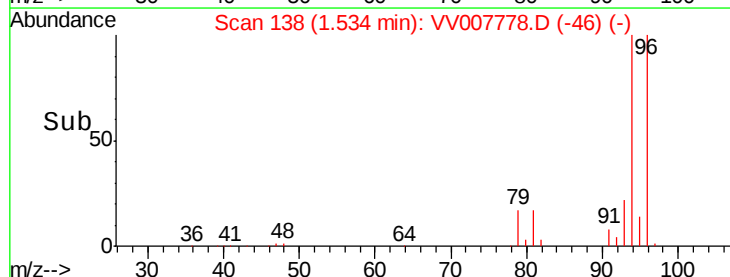
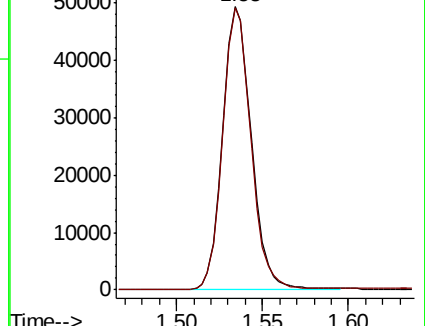
94 100

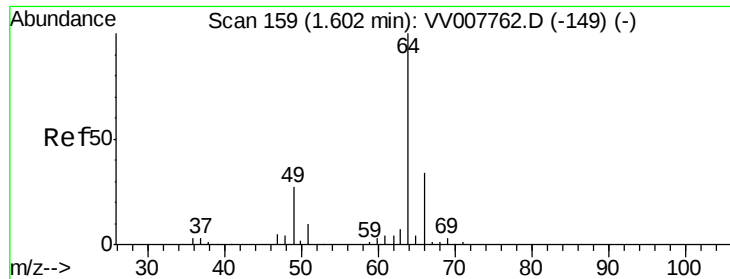
96 99.6 68.2 126.6



Abundance Ion 94.00 (93.70 to 94.70): VV007762.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV007762.D (-130) (-)





#8

Chloroethane

Concen: 47.720 ug/L

RT: 1.60 min Scan# 159

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

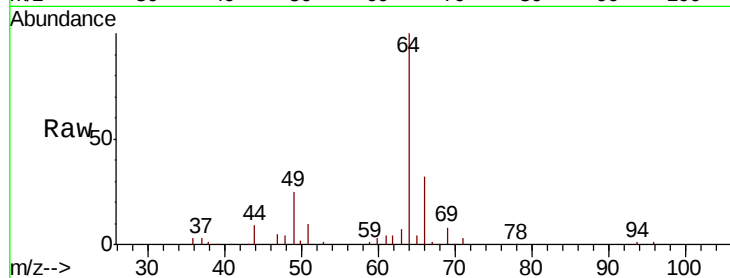
VSTD05071

Tgt Ion: 64 Resp: 37054

Ion Ratio Lower Upper

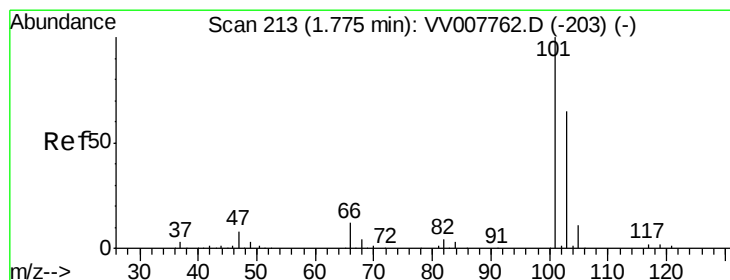
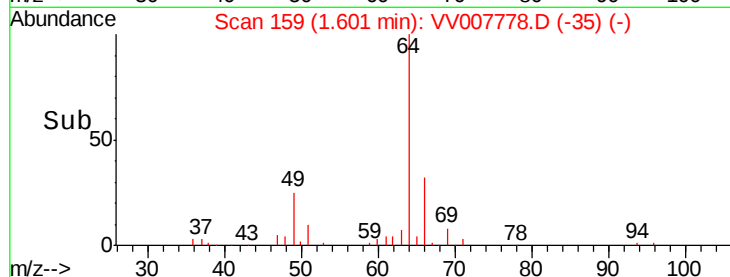
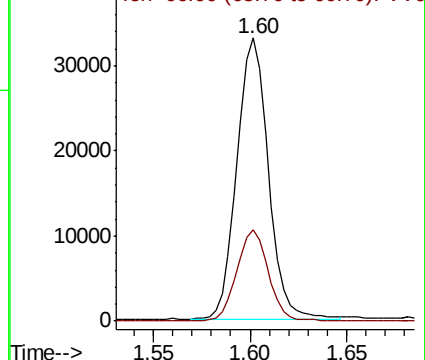
64 100

66 32.1 22.3 41.5



Abundance Ion 64.00 (63.70 to 64.70): VV007762.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV007762.D (-149) (-)



#9

Trichlorofluoromethane

Concen: 46.367 ug/L

RT: 1.77 min Scan# 212

Delta R.T. -0.00 min

Lab File: VV007778.D

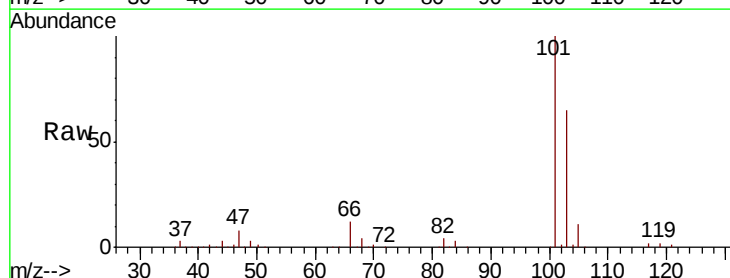
Acq: 23 Sep 2018 10:39

Tgt Ion: 101 Resp: 111047

Ion Ratio Lower Upper

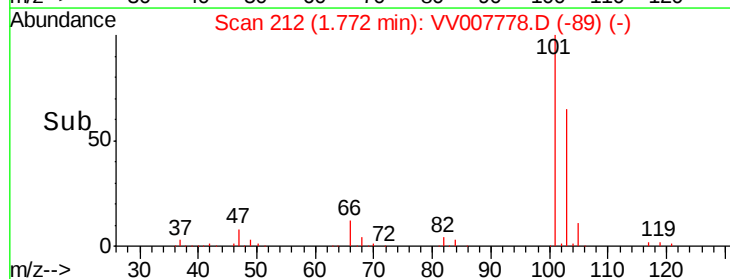
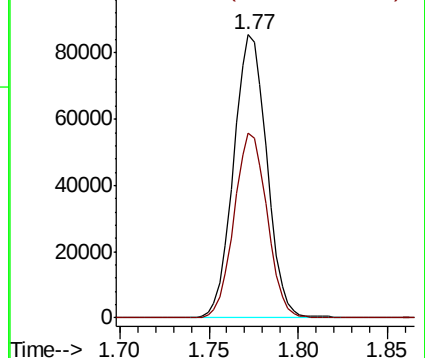
101 100

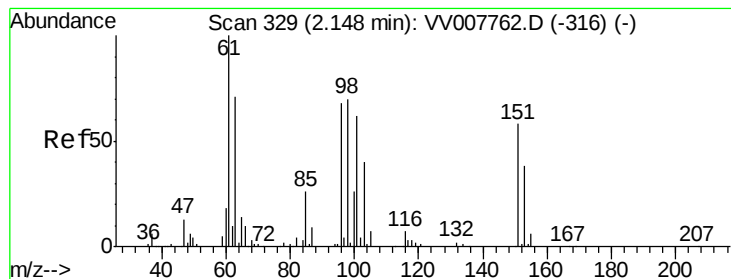
103 64.9 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VV007762.D (-203) (-)

Ion 103.00 (102.70 to 103.70): VV007762.D (-203) (-)





#10

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

Concen: 46.870 ug/L

RT: 2.14 min Scan# 328

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05071

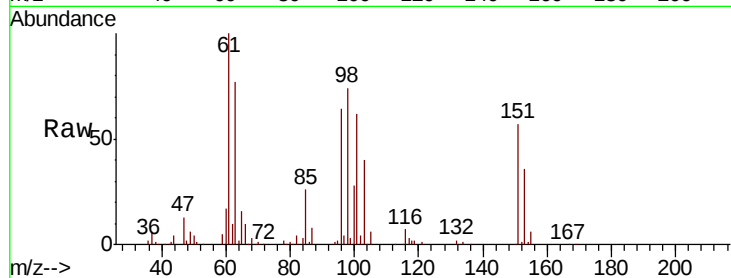
Tgt Ion:101 Resp: 63668

Ion Ratio Lower Upper

101 100

85 41.8 32.7 49.1

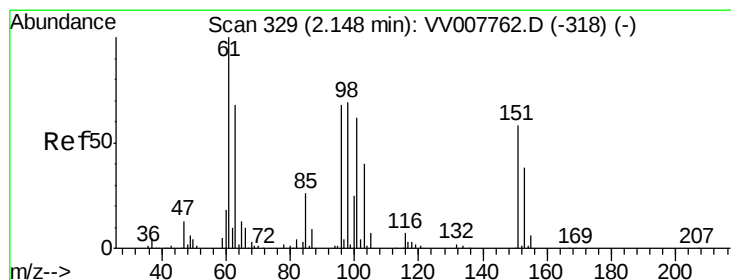
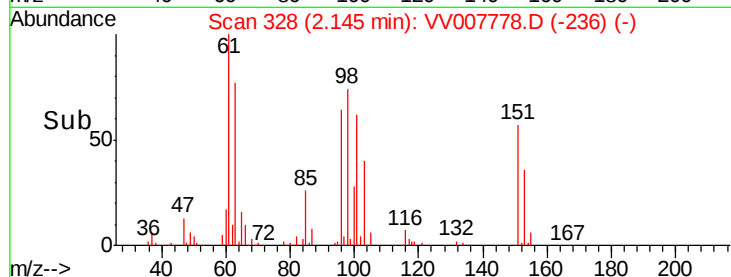
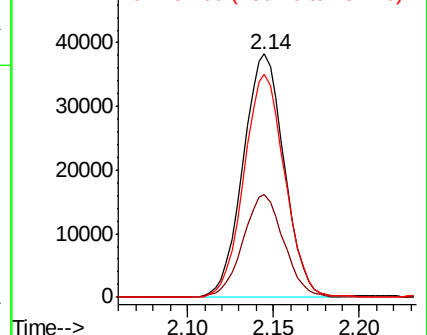
151 90.9 72.2 108.2



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: 47.291 ug/L

RT: 2.14 min Scan# 328

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

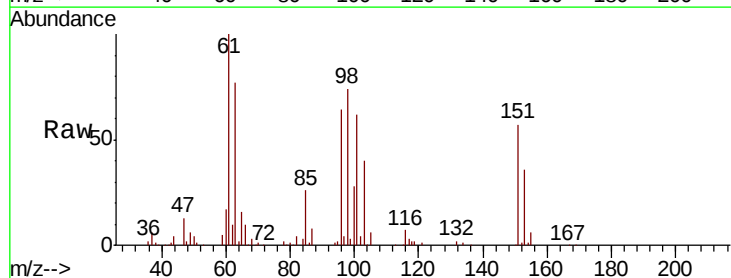
Tgt Ion: 96 Resp: 56355

Ion Ratio Lower Upper

96 100

61 155.3 107.3 199.3

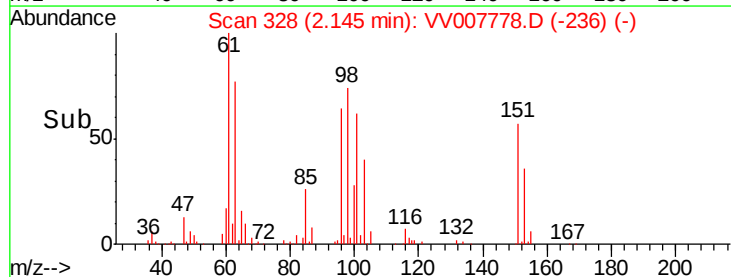
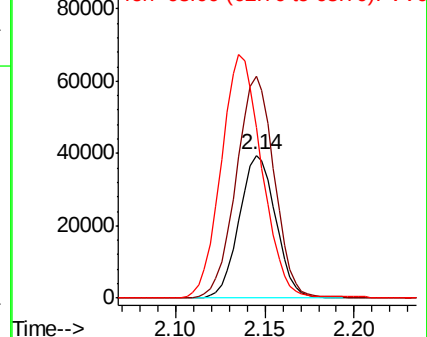
63 119.8 78.8 146.4

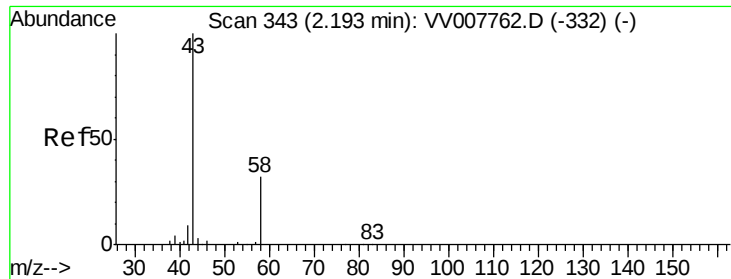


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 79.801 ug/L

RT: 2.19 min Scan# 343

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

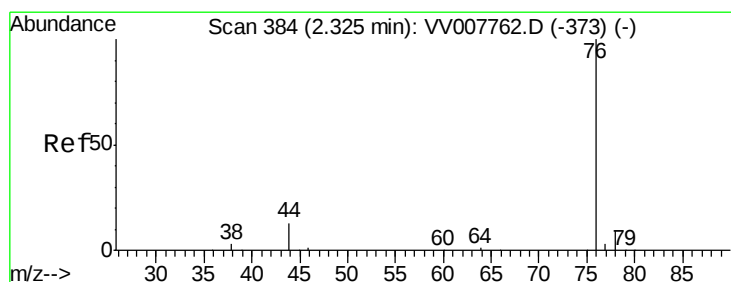
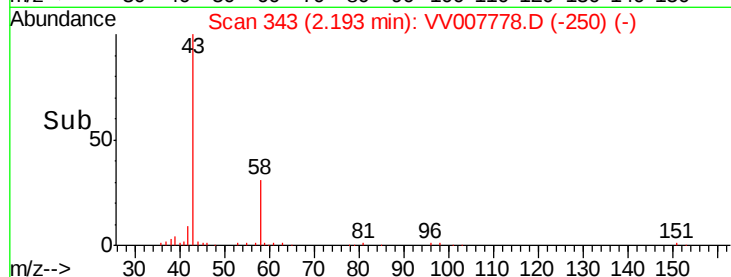
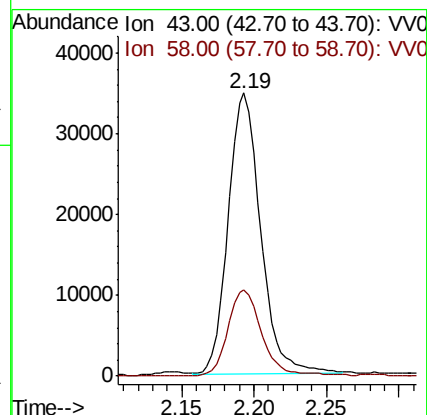
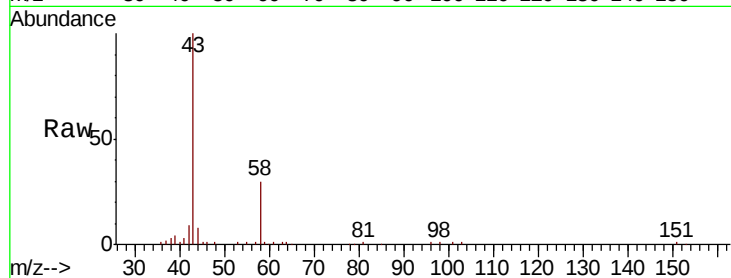
VSTD05071

Tgt Ion: 43 Resp: 54313

Ion Ratio Lower Upper

43 100

58 31.5 0.0 65.2



#14

Carbon disulfide

Concen: 43.777 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.00 min

Lab File: VV007778.D

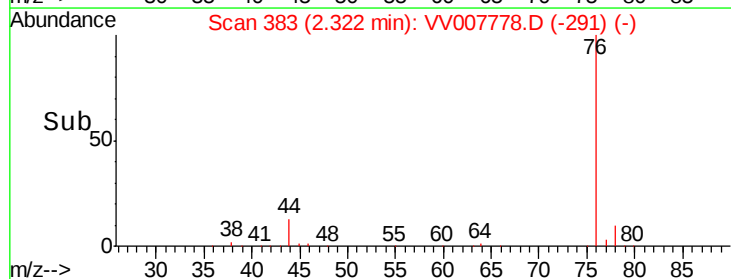
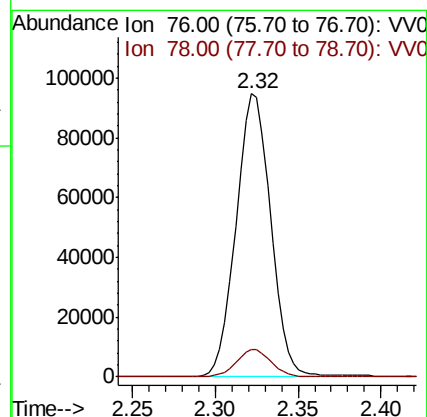
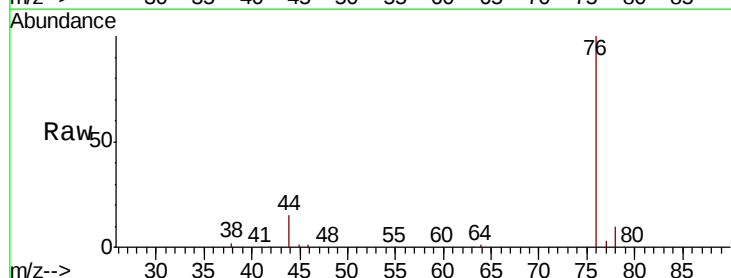
Acq: 23 Sep 2018 10:39

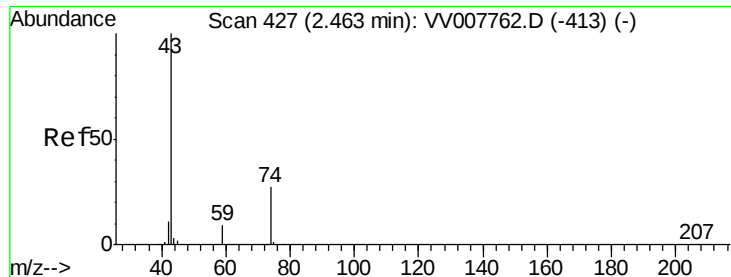
Tgt Ion: 76 Resp: 138197

Ion Ratio Lower Upper

76 100

78 9.6 7.4 11.0

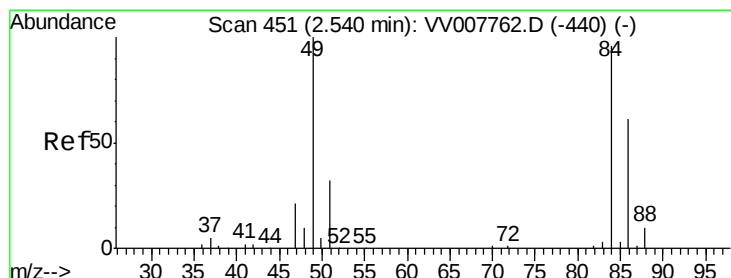
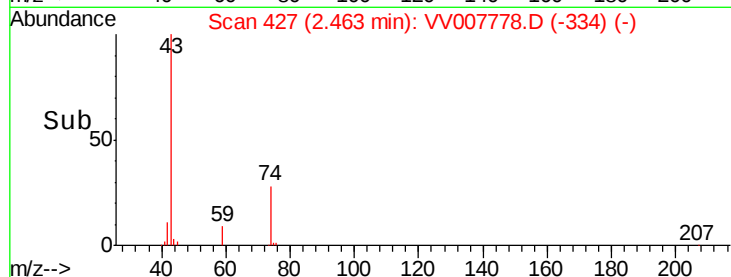
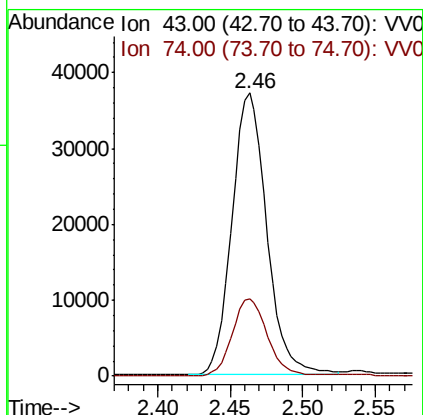
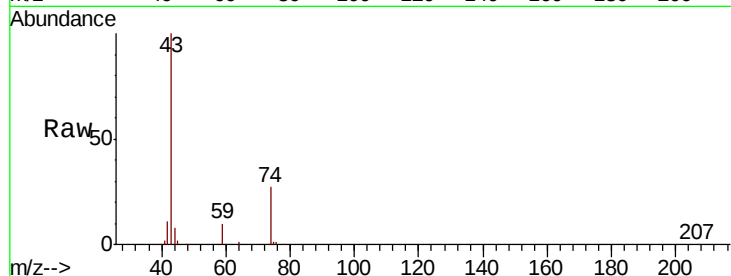




#15
Methyl Acetate
Concen: 51.592 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

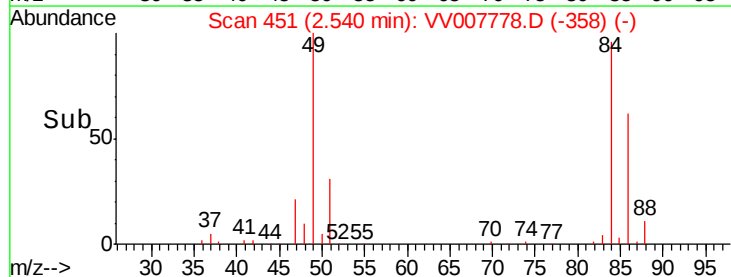
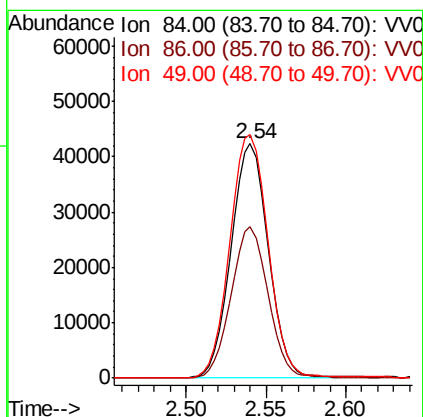
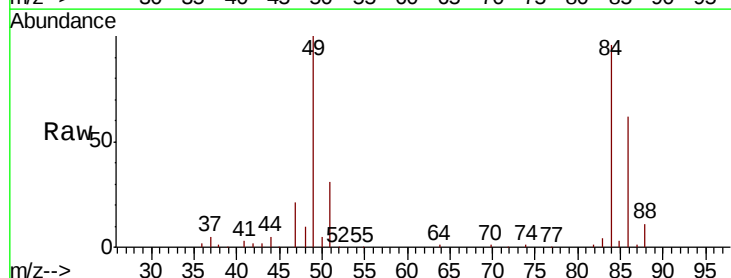
Instrument :
MSVOA_V
ClientSampleId :
VSTD05071

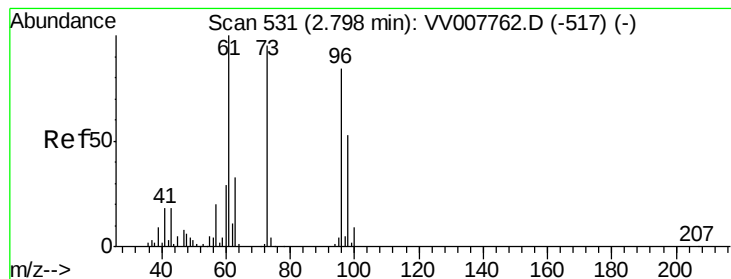
Tgt Ion: 43 Resp: 62155
Ion Ratio Lower Upper
43 100
74 27.7 22.2 33.2



#16
Methylene chloride
Concen: 51.584 ug/L
RT: 2.54 min Scan# 451
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

Tgt Ion: 84 Resp: 67420
Ion Ratio Lower Upper
84 100
86 64.3 45.4 84.4
49 103.8 75.3 139.9





#17

trans-1,2-Dichloroethene

Concen: 47.704 ug/L

RT: 2.79 min Scan# 530

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05071

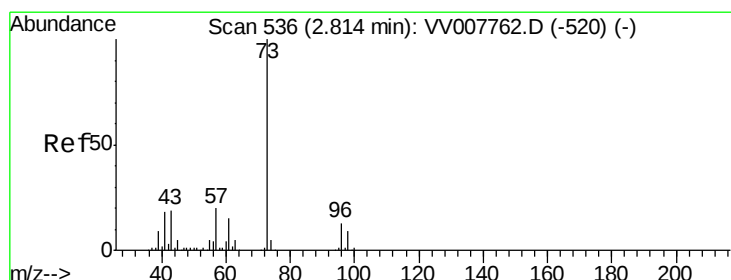
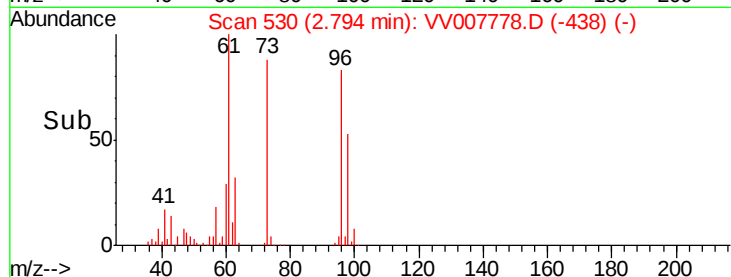
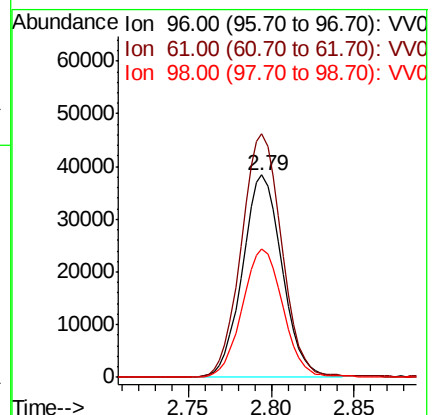
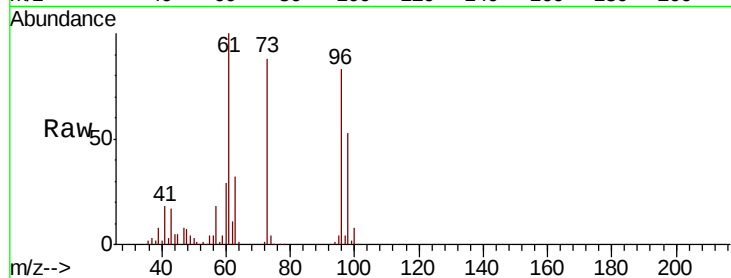
Tgt Ion: 96 Resp: 64131

Ion Ratio Lower Upper

96 100

61 120.3 84.9 157.7

98 63.3 44.6 82.8



#18

Methyl tert-butyl Ether

Concen: 51.992 ug/L

RT: 2.81 min Scan# 536

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

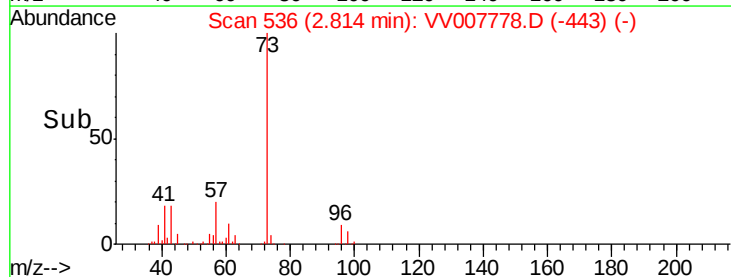
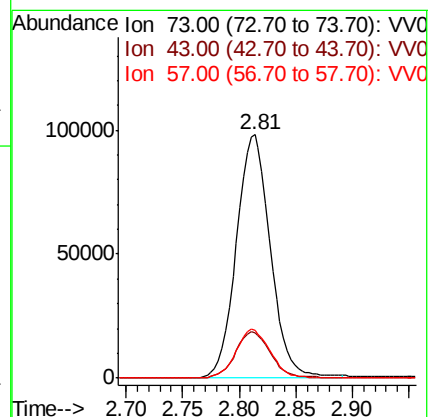
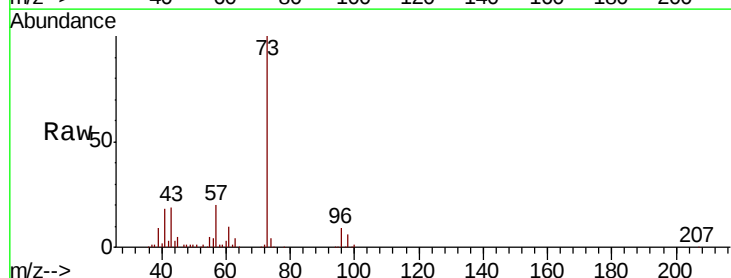
Tgt Ion: 73 Resp: 206262

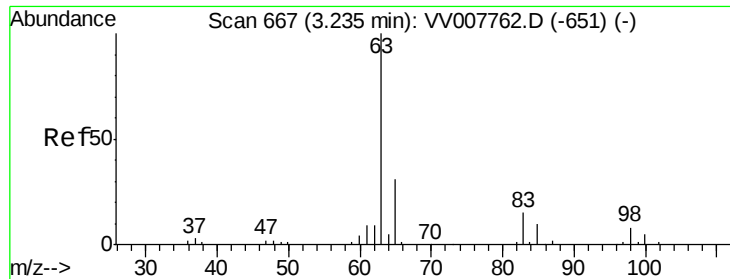
Ion Ratio Lower Upper

73 100

43 18.9 15.0 22.6

57 20.0 15.8 23.8

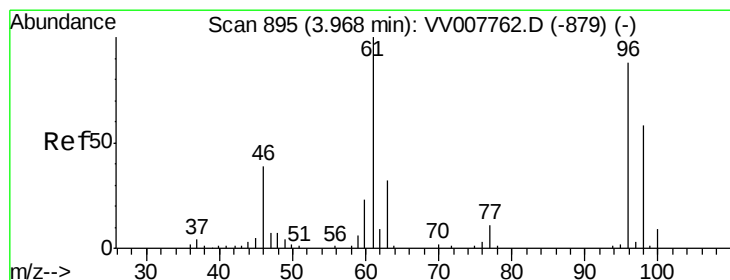
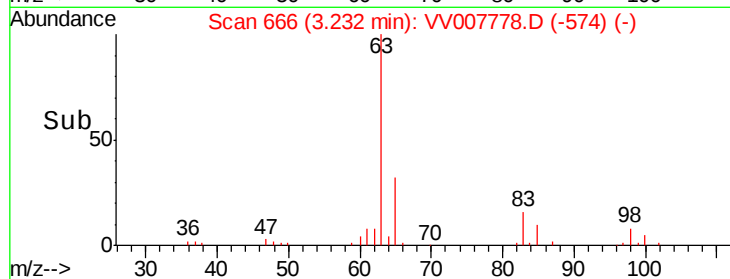
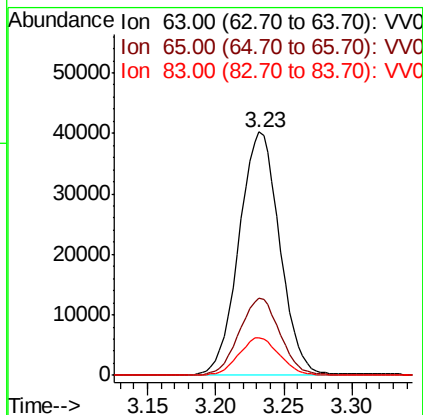
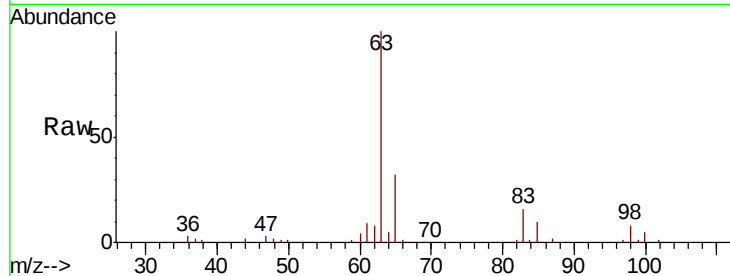




#19
 1,1-Dichloroethane
 Concen: 49.226 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. -0.00 min
 Lab File: VV007778.D
 Acq: 23 Sep 2018 10:39

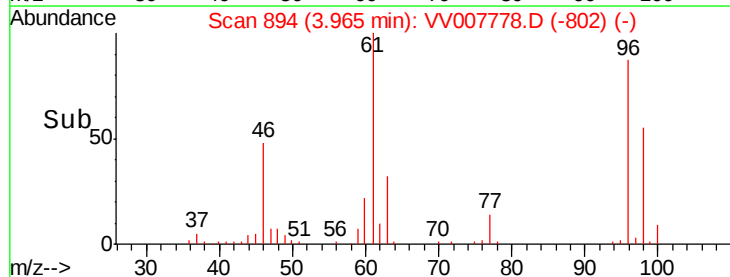
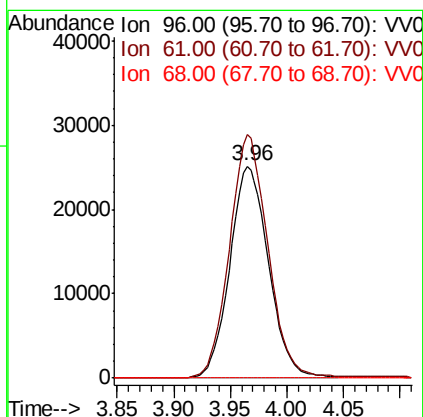
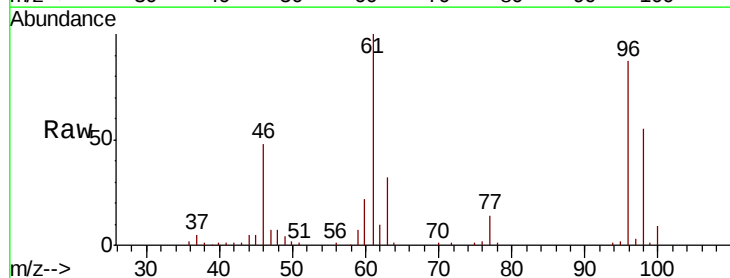
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05071

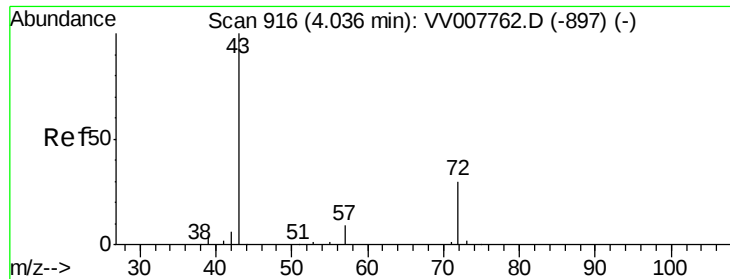
Tgt Ion: 63 Resp: 83610
 Ion Ratio Lower Upper
 63 100
 65 31.7 21.6 40.2
 83 15.6 11.2 20.8



#20
 cis-1,2-Dichloroethene
 Concen: 49.600 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. -0.00 min
 Lab File: VV007778.D
 Acq: 23 Sep 2018 10:39

Tgt Ion: 96 Resp: 59803
 Ion Ratio Lower Upper
 96 100
 61 114.9 78.8 146.3
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 91.568 ug/L

RT: 4.03 min Scan# 915

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

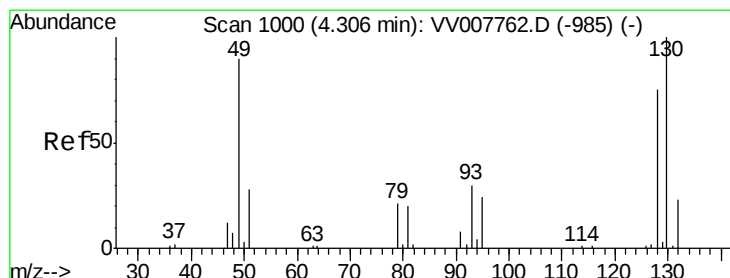
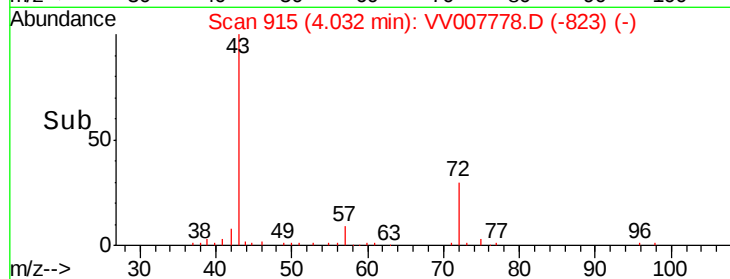
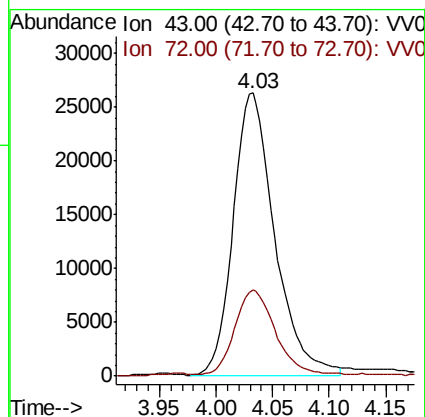
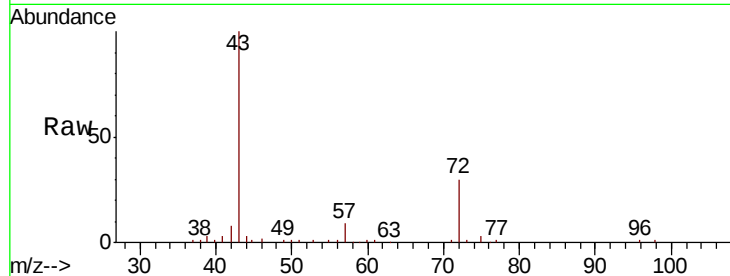
VSTD05071

Tgt Ion: 43 Resp: 67461

Ion Ratio Lower Upper

43 100

72 29.2 14.2 42.6



#23

Bromochloromethane

Concen: 51.584 ug/L

RT: 4.30 min Scan# 999

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Tgt Ion: 128 Resp: 34469

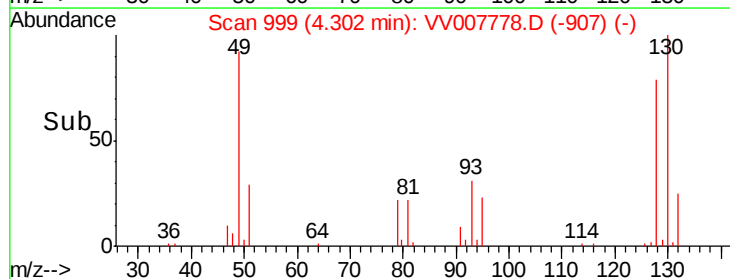
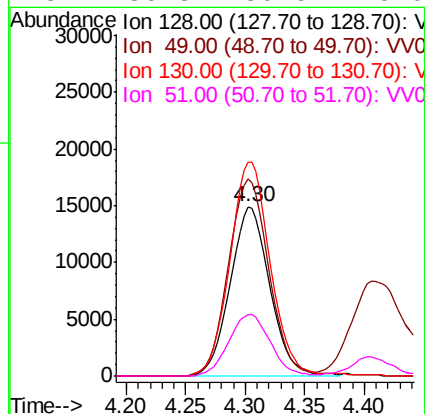
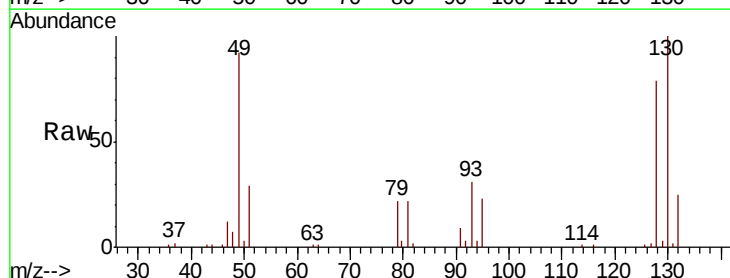
Ion Ratio Lower Upper

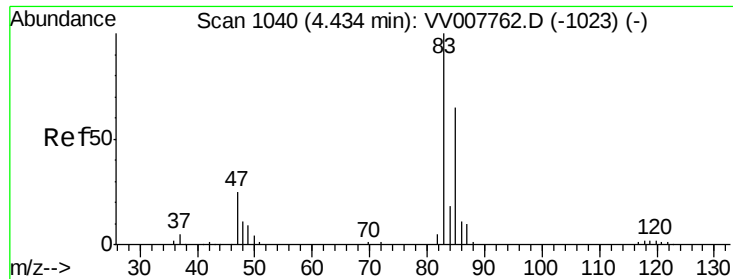
128 100

49 116.4 84.8 157.4

130 126.1 90.9 168.9

51 36.3 30.6 46.0

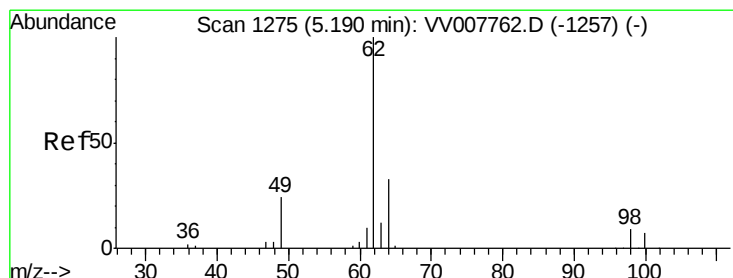
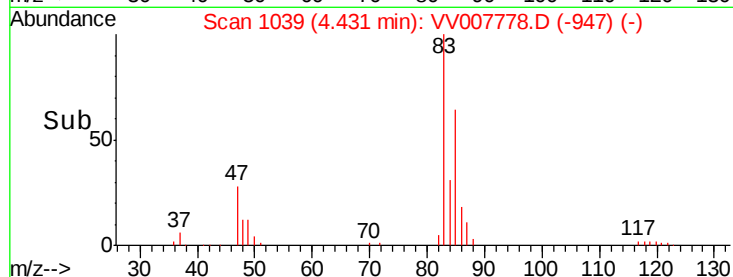
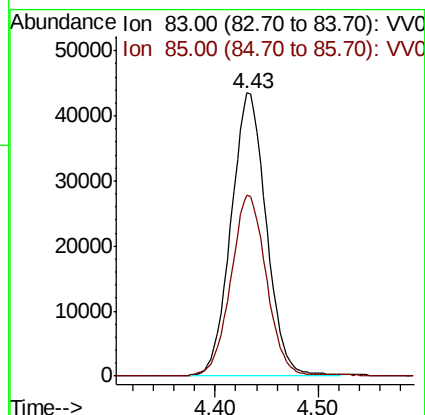
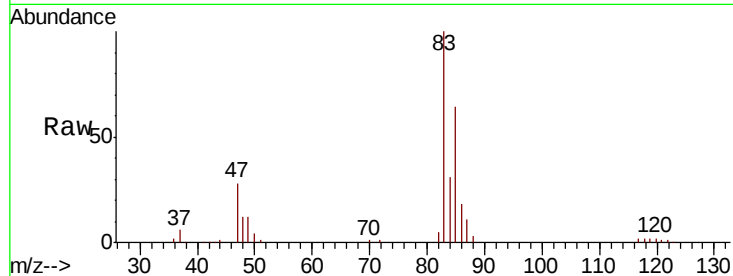




#25
Chloroform
Concen: 51.347 ug/L
RT: 4.43 min Scan# 1039
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

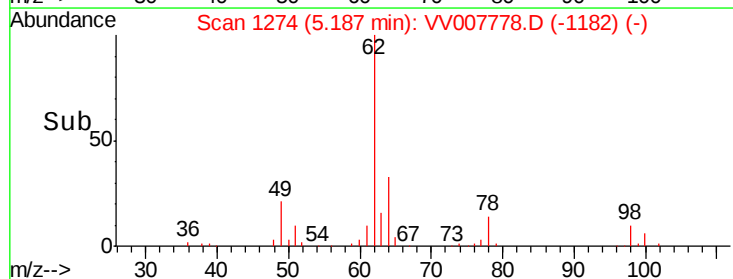
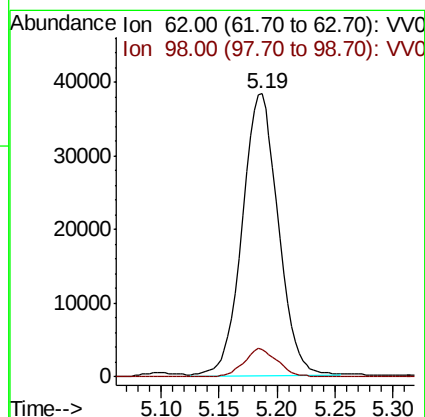
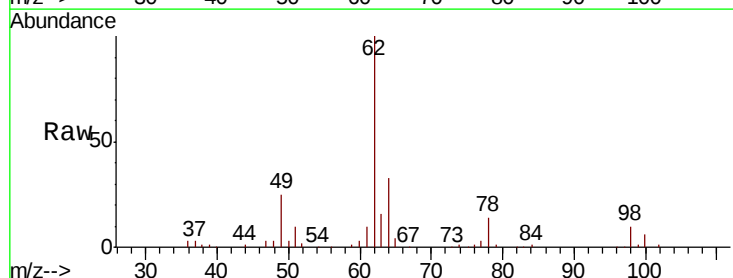
Instrument :
MSVOA_V
ClientSampleId :
VSTD05071

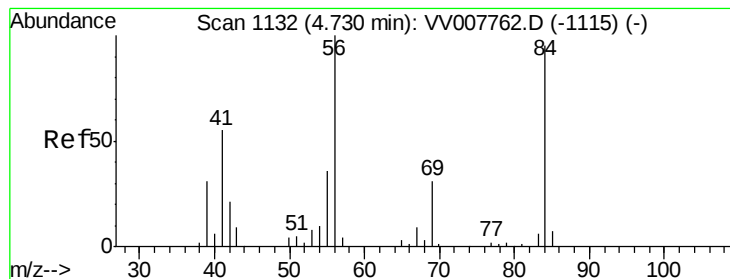
Tgt Ion: 83 Resp: 103385
Ion Ratio Lower Upper
83 100
85 64.0 44.0 81.8



#27
1,2-Dichloroethane
Concen: 50.677 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

Tgt Ion: 62 Resp: 82767
Ion Ratio Lower Upper
62 100
98 9.7 7.5 11.3





#29

Cyclohexane

Concen: 44.210 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05071

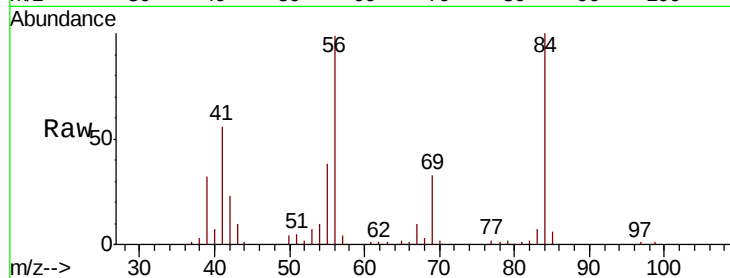
Tgt Ion: 56 Resp: 68739

Ion Ratio Lower Upper

56 100

69 32.3 26.1 39.1

84 101.0 79.7 119.5

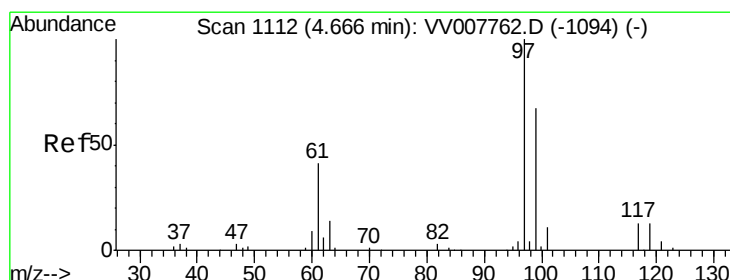
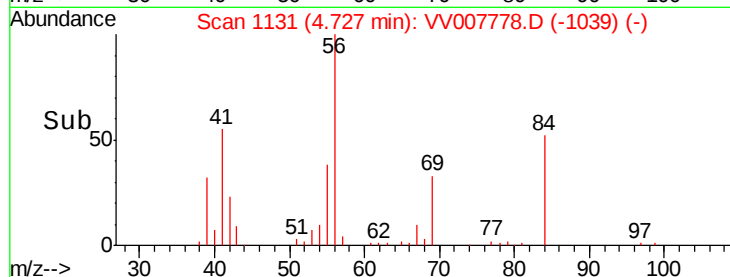
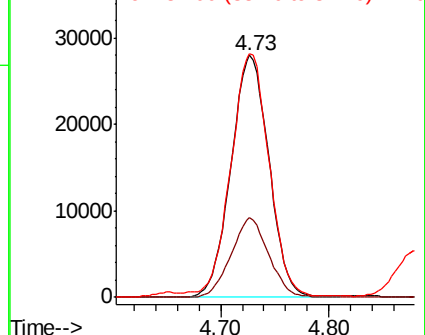


Abundance

Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 46.555 ug/L

RT: 4.66 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

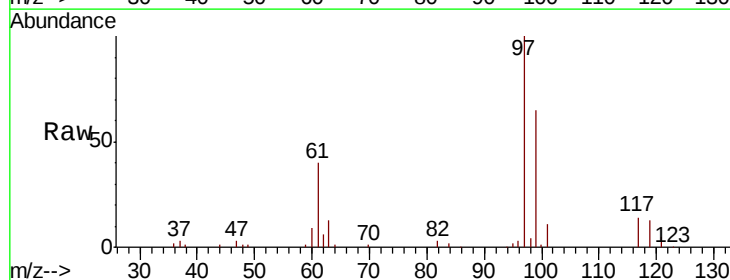
Tgt Ion: 97 Resp: 88585

Ion Ratio Lower Upper

97 100

99 64.7 51.8 77.8

61 40.3 33.0 49.4

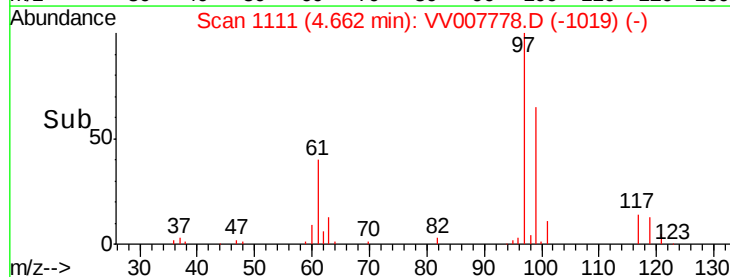
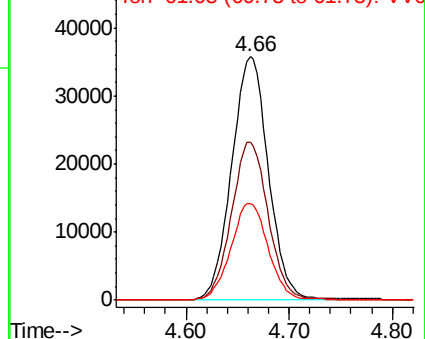


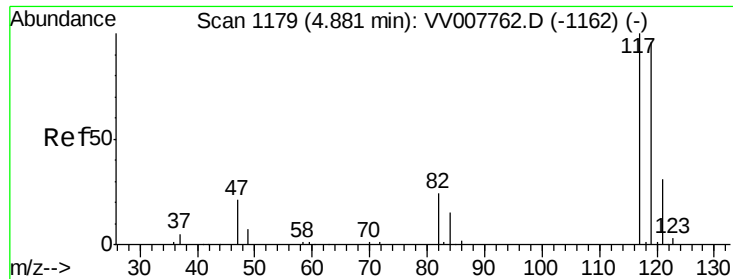
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 45.683 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

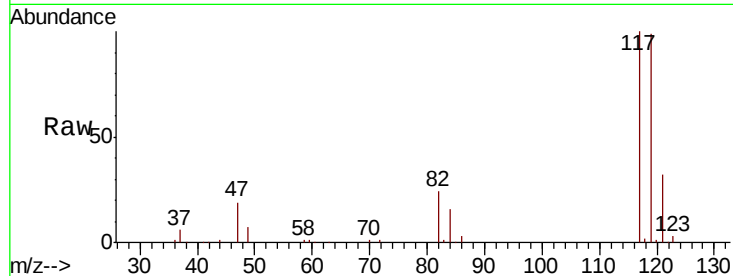
VSTD05071

Tgt Ion:117 Resp: 80312

Ion Ratio Lower Upper

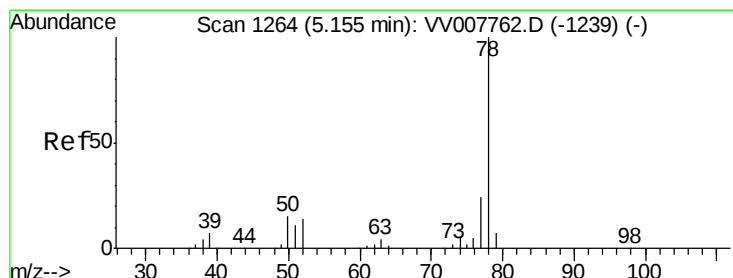
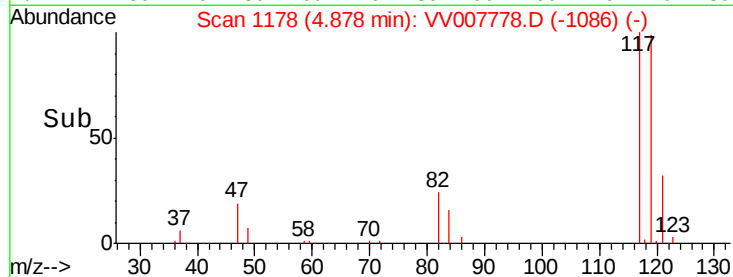
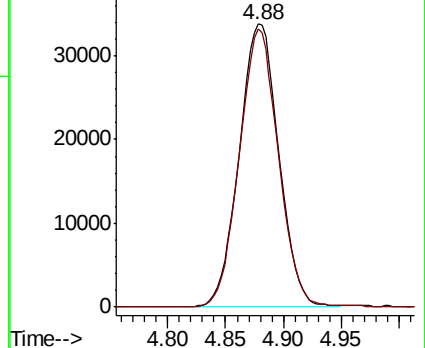
117 100

119 96.7 77.0 115.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 48.628 ug/L

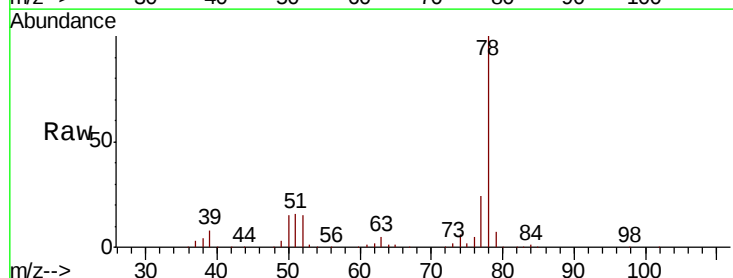
RT: 5.15 min Scan# 1263

Delta R.T. -0.00 min

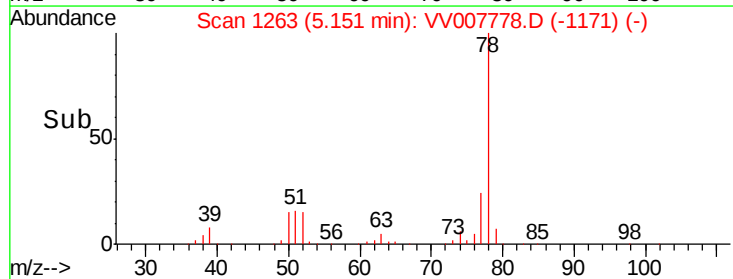
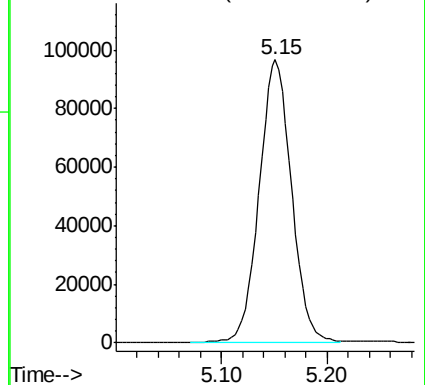
Lab File: VV007778.D

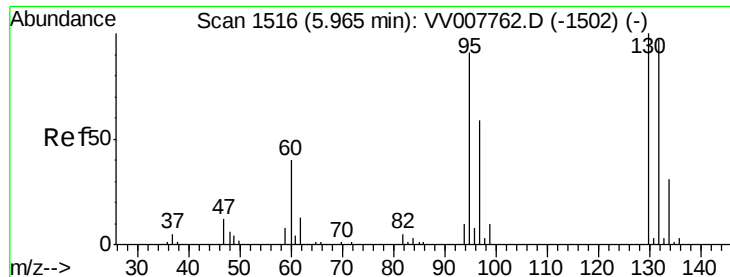
Acq: 23 Sep 2018 10:39

Tgt Ion: 78 Resp: 207101



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 46.859 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05071

Tgt Ion: 95 Resp: 59021

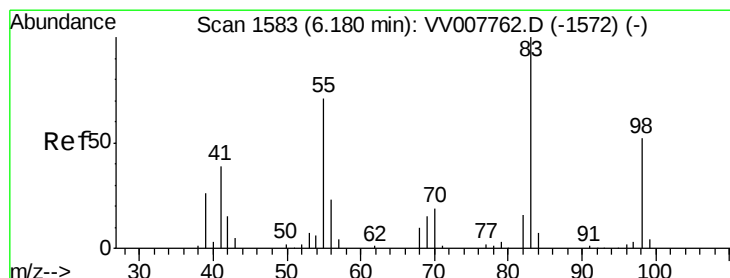
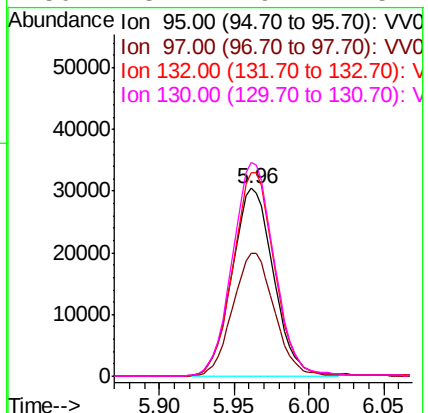
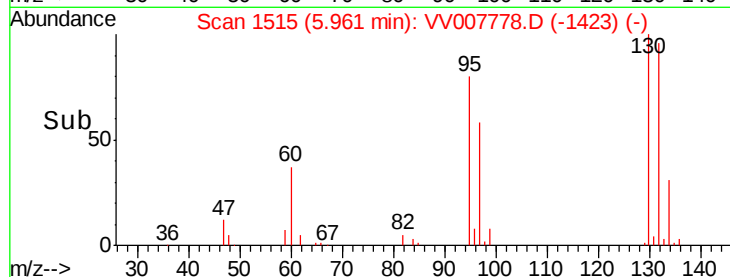
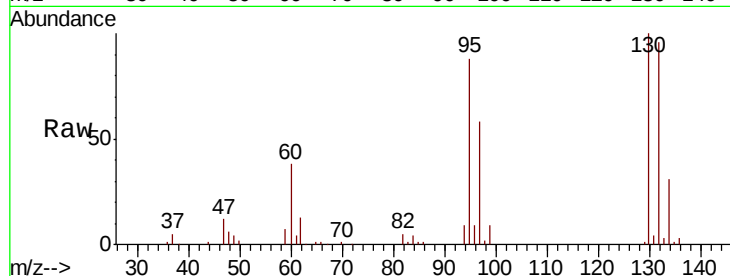
Ion Ratio Lower Upper

95 100

97 65.4 45.2 84.0

132 108.6 77.7 144.3

130 113.7 79.7 148.1



#35

Methylcyclohexane

Concen: 43.510 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

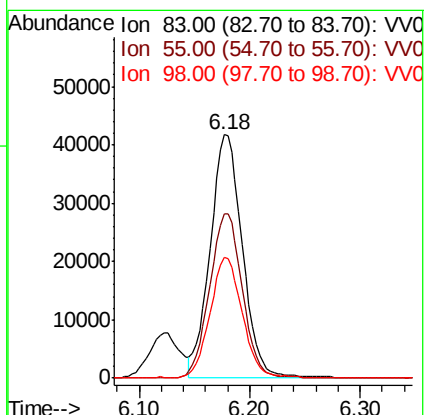
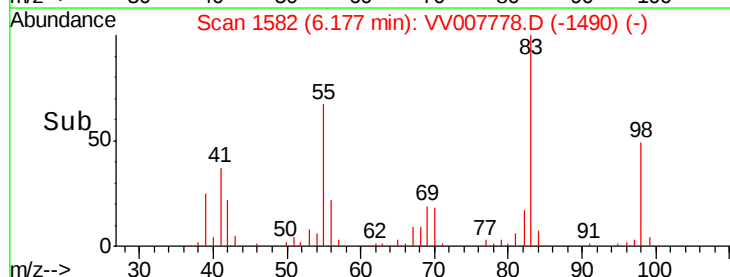
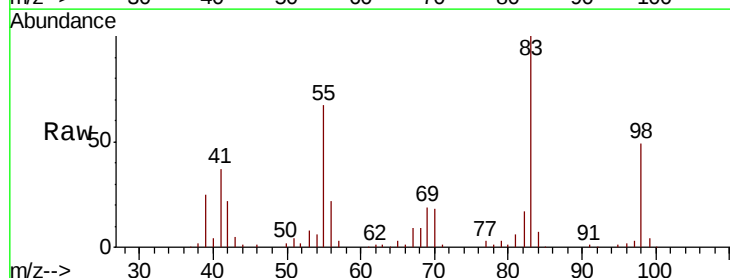
Tgt Ion: 83 Resp: 83937

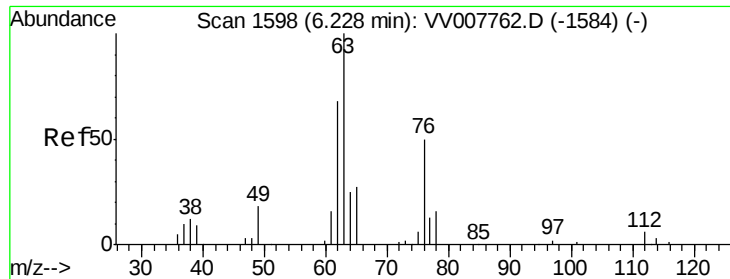
Ion Ratio Lower Upper

83 100

55 69.1 54.6 82.0

98 49.8 39.0 58.6





#37

1,2-Dichloropropane

Concen: 48.934 ug/L

RT: 6.23 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

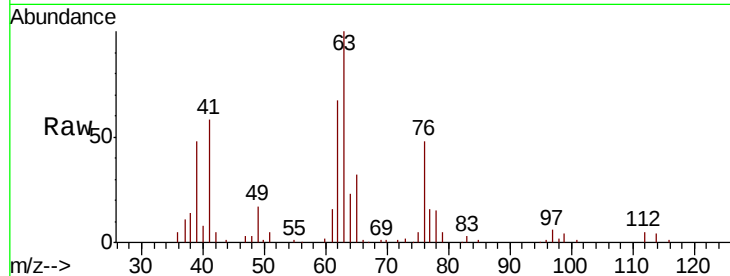
VSTD05071

Tgt Ion: 63 Resp: 52471

Ion Ratio Lower Upper

63 100

112 5.1 3.8 5.6

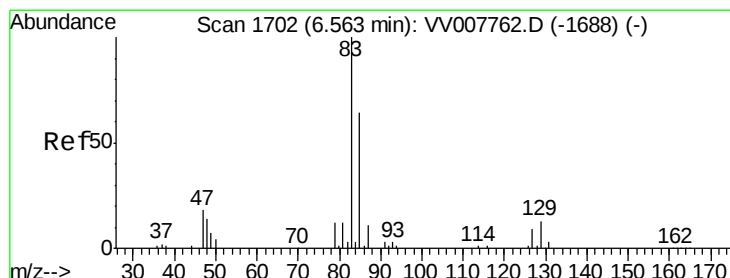
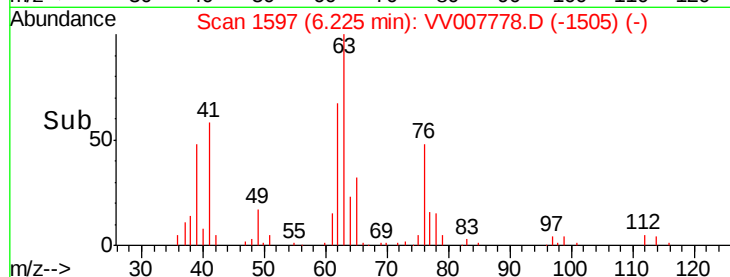


Abundance Ion 63.00 (62.70 to 63.70): VV007762.D (-1584) (-)

Ion 112.00 (111.70 to 112.70): VV007762.D (-1584) (-)

Time-->

6.10 6.20 6.30



#38

Bromodichloromethane

Concen: 50.040 ug/L

RT: 6.56 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

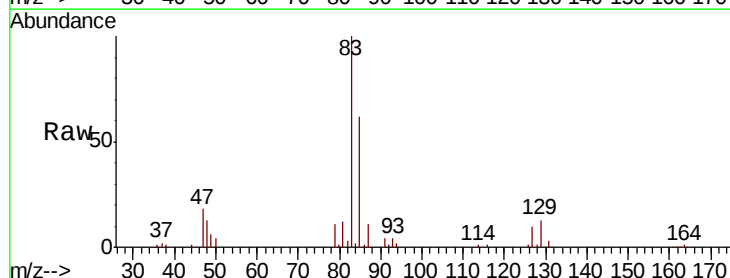
Tgt Ion: 83 Resp: 73768

Ion Ratio Lower Upper

83 100

85 62.1 46.6 86.6

127 9.9 8.7 13.1



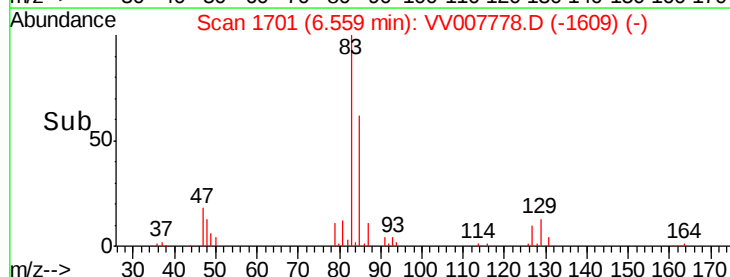
Abundance Ion 83.00 (82.70 to 83.70): VV007762.D (-1688) (-)

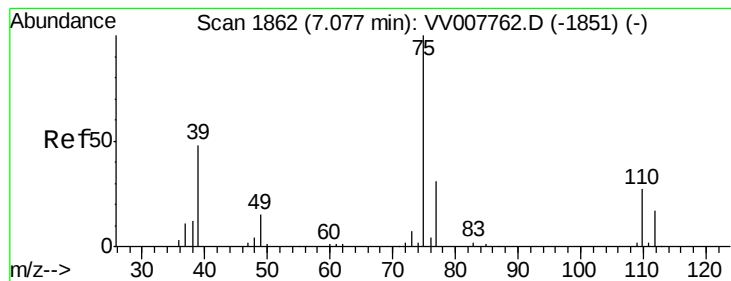
Ion 85.00 (84.70 to 85.70): VV007762.D (-1688) (-)

Ion 127.00 (126.70 to 127.70): VV007762.D (-1688) (-)

Time-->

6.50 6.60 6.70



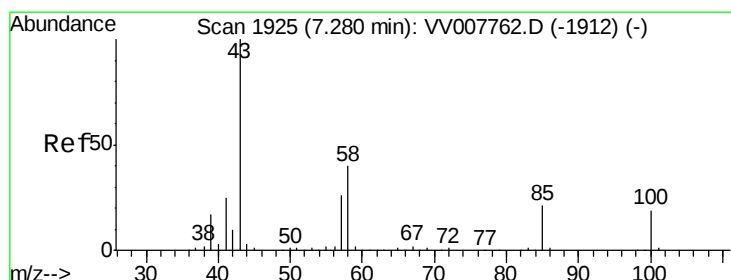
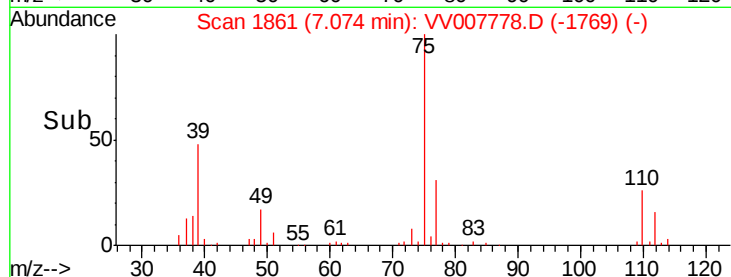
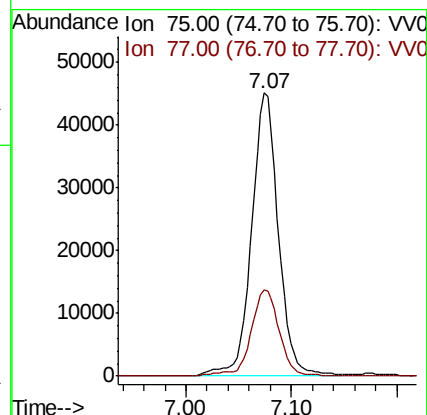
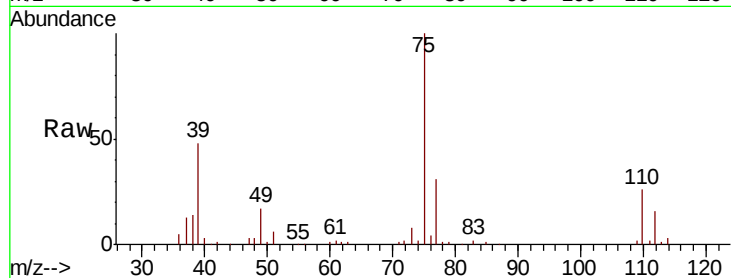


#39

cis-1,3-Dichloropropene
Concen: 46.534 ug/L
RT: 7.07 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

Instrument :
MSVOA_V
ClientSampleId :
VSTD05071

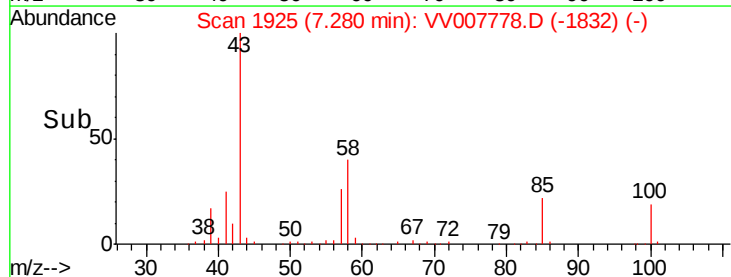
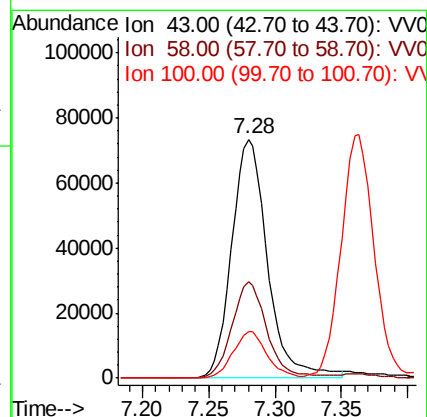
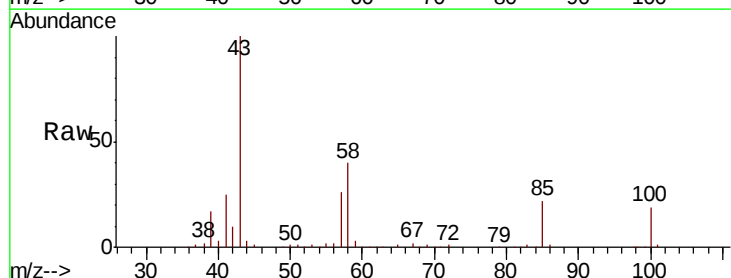
Tgt Ion: 75 Resp: 80213
Ion Ratio Lower Upper
75 100
77 30.6 22.0 40.8

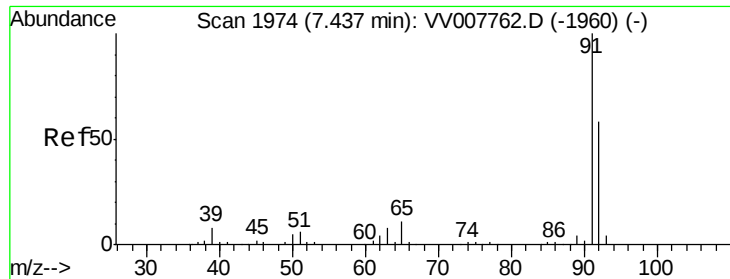


#40

4-Methyl-2-pentanone
Concen: 97.334 ug/L
RT: 7.28 min Scan# 1925
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

Tgt Ion: 43 Resp: 138017
Ion Ratio Lower Upper
43 100
58 39.4 31.5 47.3
100 18.5 14.7 22.1





#42

Toluene

Concen: 48.337 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

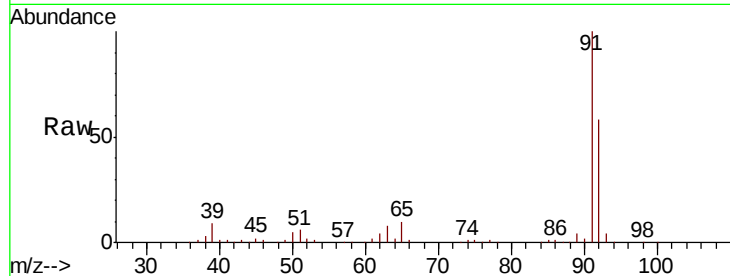
VSTD05071

Tgt Ion: 91 Resp: 244017

Ion Ratio Lower Upper

91 100

92 58.1 39.7 73.7



Abundance Ion 91.00 (90.70 to 91.70): VV007762.D (-1960) (-)

Ion 92.00 (91.70 to 92.70): VV007762.D (-1960) (-)

7.43

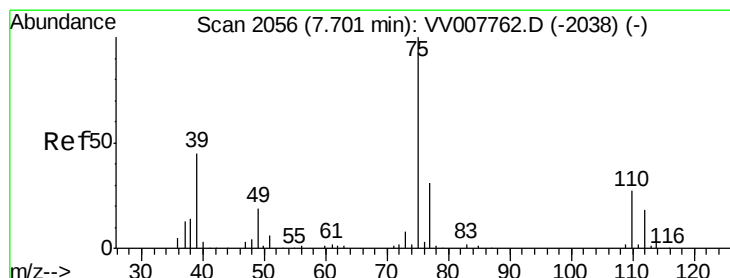
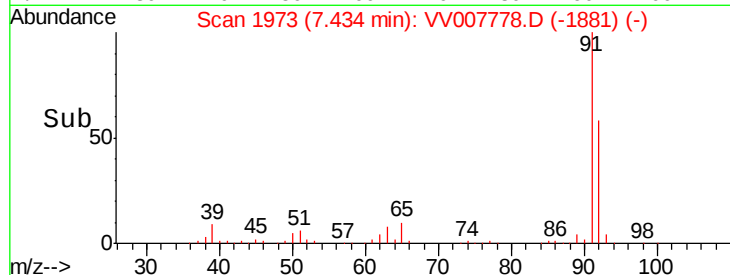
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 46.284 ug/L

RT: 7.70 min Scan# 2055

Delta R.T. -0.00 min

Lab File: VV007778.D

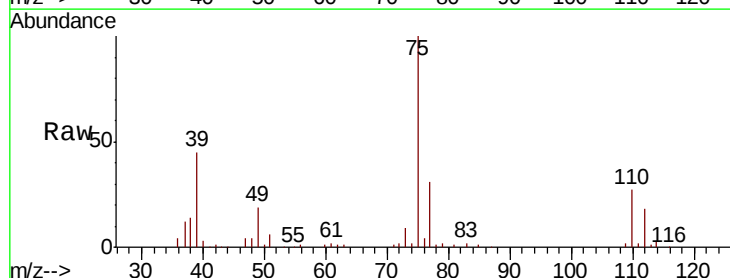
Acq: 23 Sep 2018 10:39

Tgt Ion: 75 Resp: 75747

Ion Ratio Lower Upper

75 100

77 31.5 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV007762.D (-2038) (-)

Ion 77.00 (76.70 to 77.70): VV007762.D (-2038) (-)

7.70

50000

40000

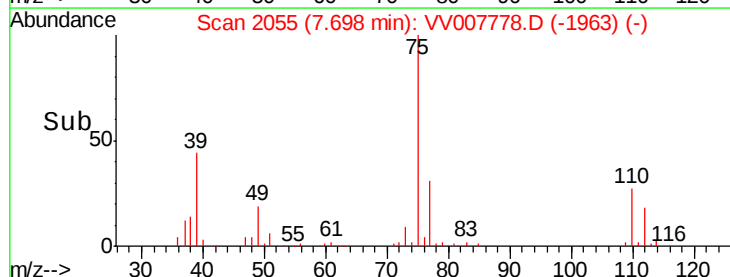
30000

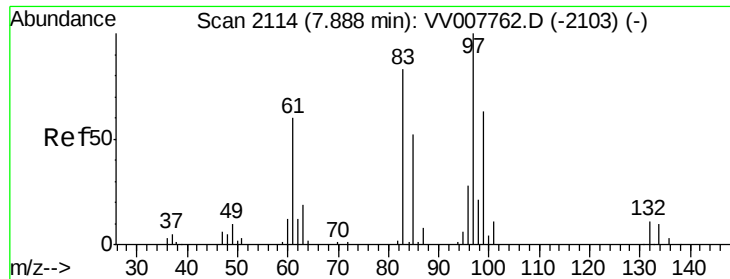
20000

10000

0

Time-->

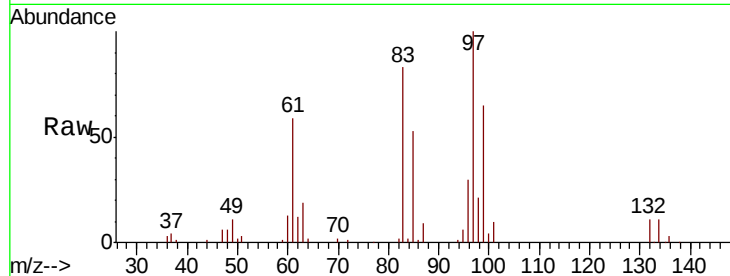




#45
 1,1,2-Trichloroethane
 Concen: 49.645 ug/L
 RT: 7.89 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VV007778.D
 Acq: 23 Sep 2018 10:39

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05071

Tgt Ion:	97	Resp:	59820
Ion	Ratio	Lower	Upper
97	100		
99	65.0	45.8	85.2
83	83.1	58.2	108.0
85	52.6	38.0	70.6



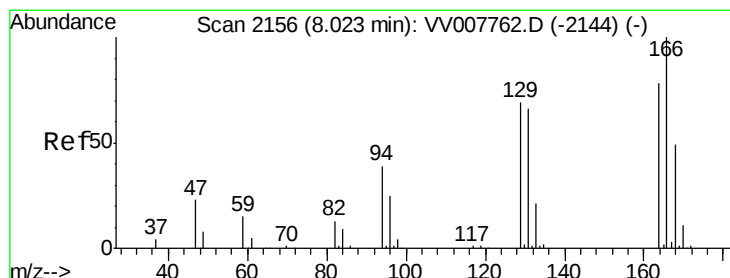
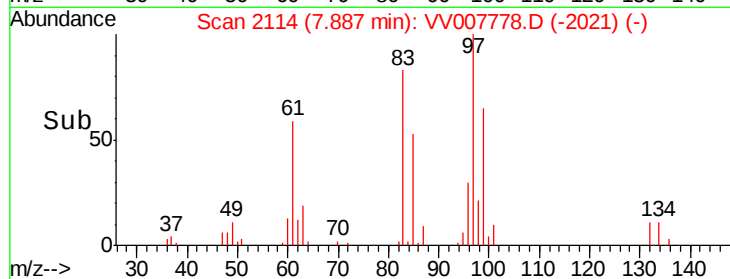
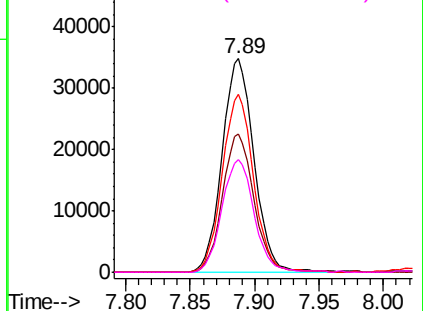
Abundance

Ion 97.00 (96.70 to 97.70): VV007778.D (-2021) (-)

Ion 99.00 (98.70 to 99.70): VV007778.D (-2021) (-)

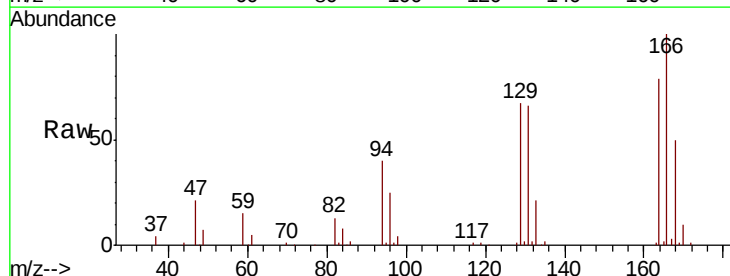
Ion 83.00 (82.70 to 83.70): VV007778.D (-2021) (-)

Ion 85.00 (84.70 to 85.70): VV007778.D (-2021) (-)



#46
 Tetrachloroethene
 Concen: 45.622 ug/L
 RT: 8.02 min Scan# 2156
 Delta R.T. -0.00 min
 Lab File: VV007778.D
 Acq: 23 Sep 2018 10:39

Tgt Ion:	164	Resp:	58812
Ion	Ratio	Lower	Upper
164	100		
129	84.9	61.0	113.4
131	83.9	57.8	107.4
166	126.3	89.9	167.0



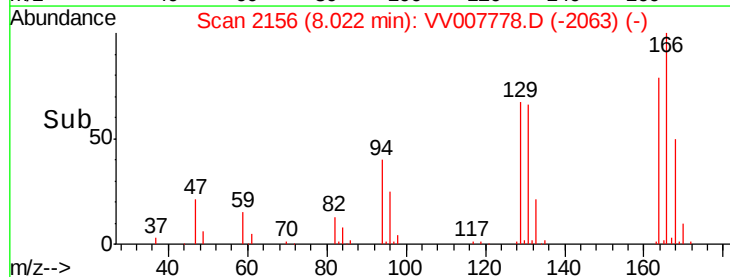
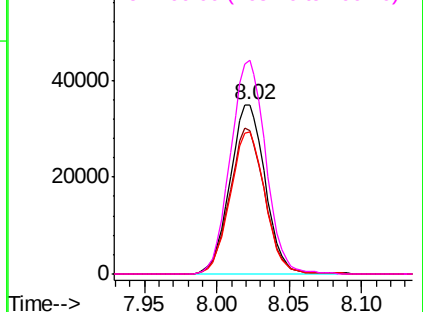
Abundance

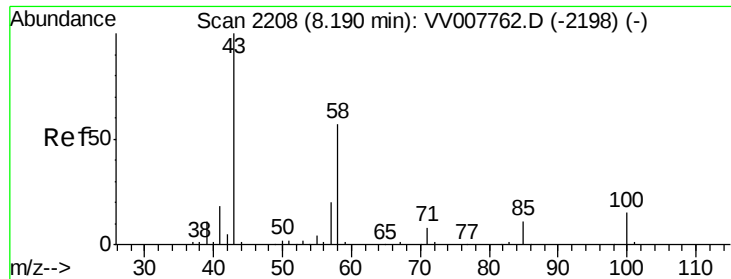
Ion 164.00 (163.70 to 164.70): VV007778.D (-2063) (-)

Ion 129.00 (128.70 to 129.70): VV007778.D (-2063) (-)

Ion 131.00 (130.70 to 131.70): VV007778.D (-2063) (-)

Ion 166.00 (165.70 to 166.70): VV007778.D (-2063) (-)

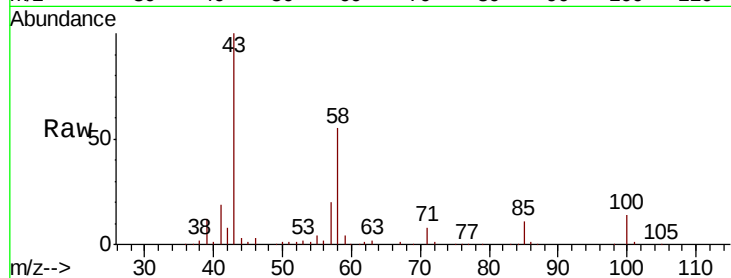




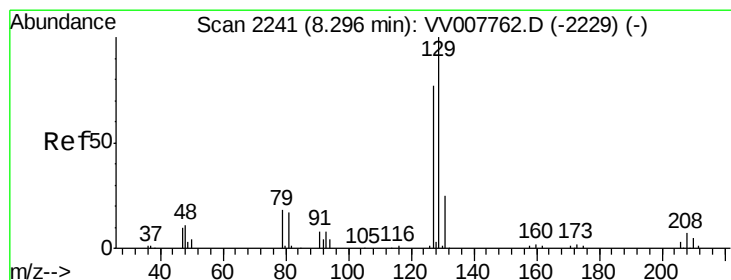
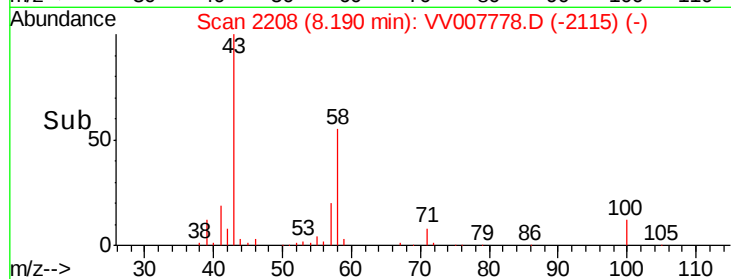
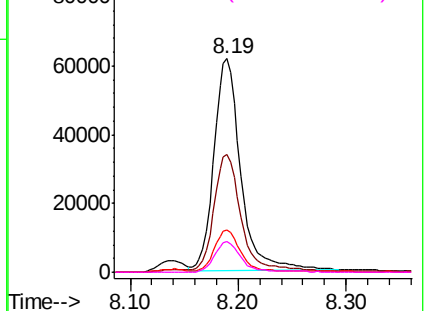
#48
2-Hexanone
Concen: 97.309 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

Instrument :
MSVOA_V
ClientSampleId :
VSTD05071

Tgt Ion: 43 Resp: 106288
Ion Ratio Lower Upper
43 100
58 55.5 41.4 62.0
57 19.1 16.0 24.0
100 14.2 11.9 17.9

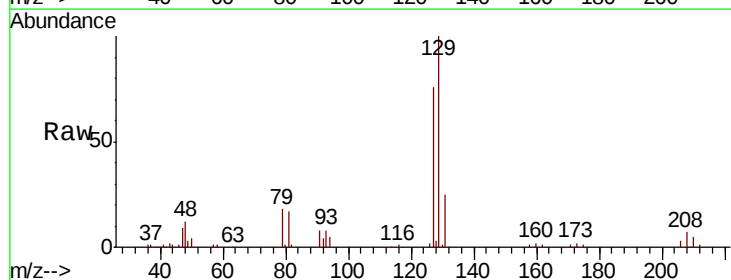


Abundance Ion 43.00 (42.70 to 43.70): VV007762.D (-2198) (-)
Ion 58.00 (57.70 to 58.70): VV007762.D (-2198) (-)
Ion 57.00 (56.70 to 57.70): VV007762.D (-2198) (-)
Ion 100.00 (99.70 to 100.70): VV007762.D (-2198) (-)

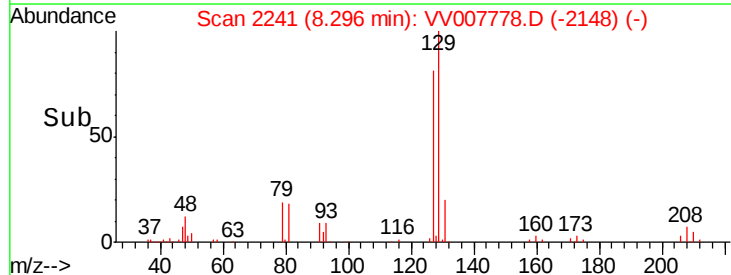
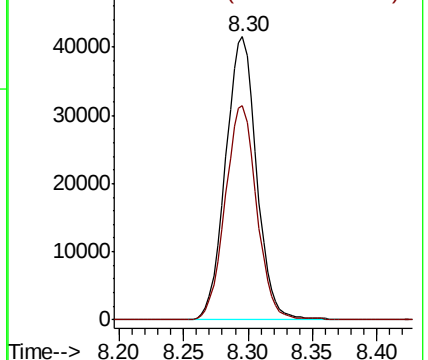


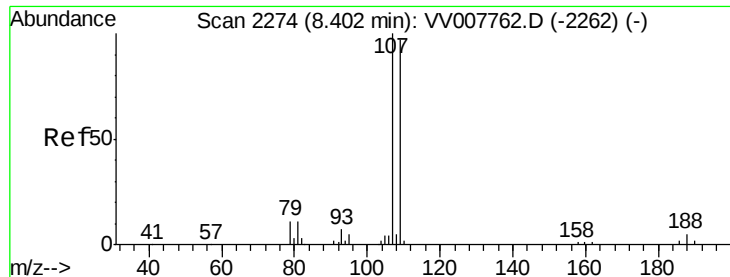
#49
Dibromochloromethane
Concen: 50.722 ug/L
RT: 8.30 min Scan# 2241
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

Tgt Ion: 129 Resp: 69349
Ion Ratio Lower Upper
129 100
127 75.6 54.0 100.2



Abundance Ion 129.00 (128.70 to 129.70): VV007762.D (-2229) (-)
Ion 127.00 (126.70 to 127.70): VV007762.D (-2229) (-)

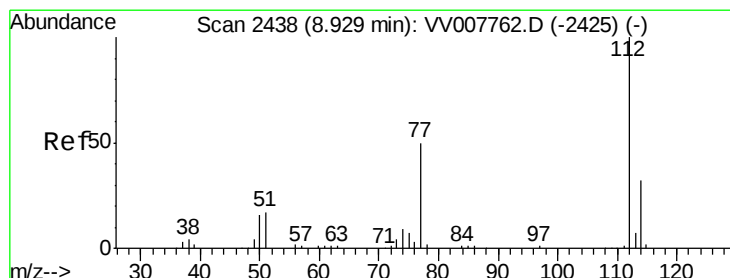
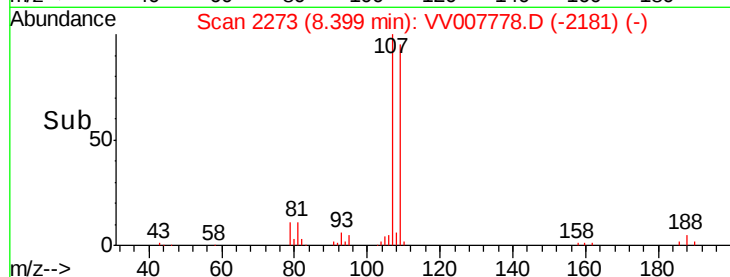
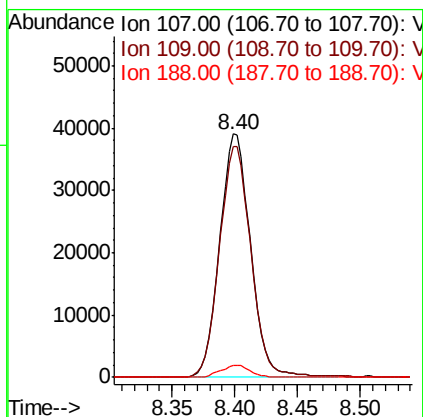
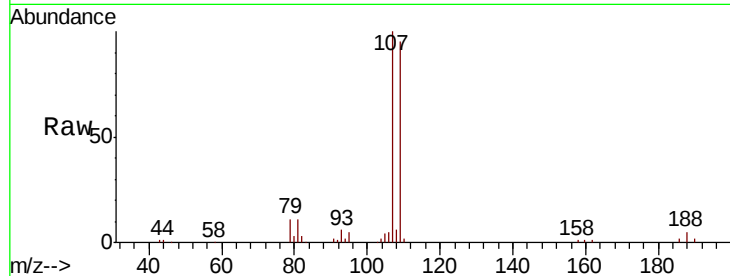




#50
1,2-Dibromoethane
Concen: 49.255 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

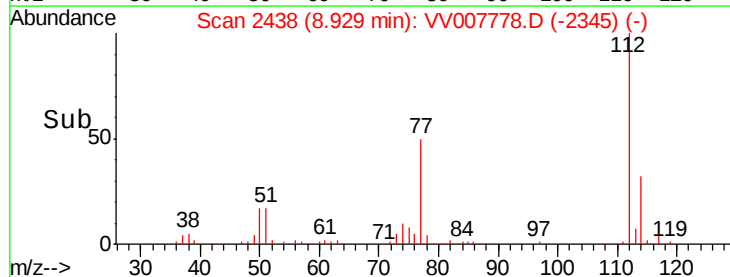
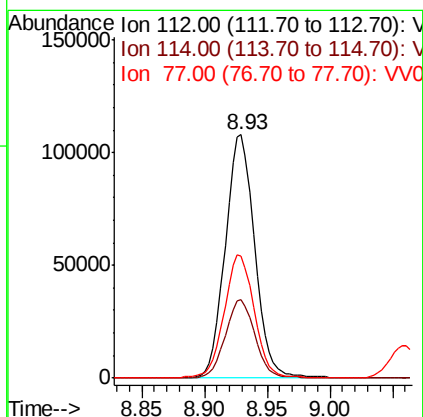
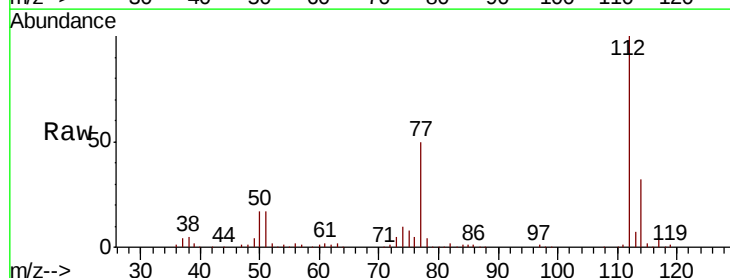
Instrument :
MSVOA_V
ClientSampleId :
VSTD05071

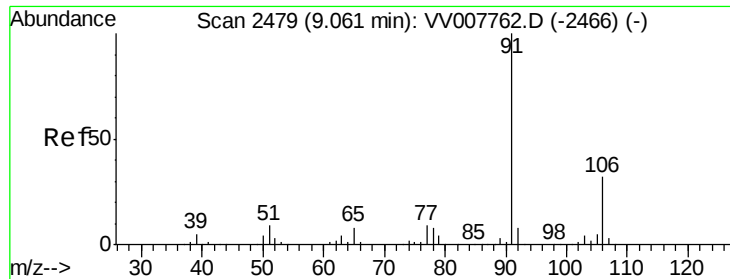
Tgt Ion:107 Resp: 66628
Ion Ratio Lower Upper
107 100
109 95.0 66.4 123.2
188 5.0 3.5 5.3



#51
Chlorobenzene
Concen: 48.434 ug/L
RT: 8.93 min Scan# 2438
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

Tgt Ion:112 Resp: 176124
Ion Ratio Lower Upper
112 100
114 32.2 22.3 41.3
77 50.2 40.6 60.8





#52

Ethylbenzene

Concen: 46.937 ug/L

RT: 9.06 min Scan# 2478

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

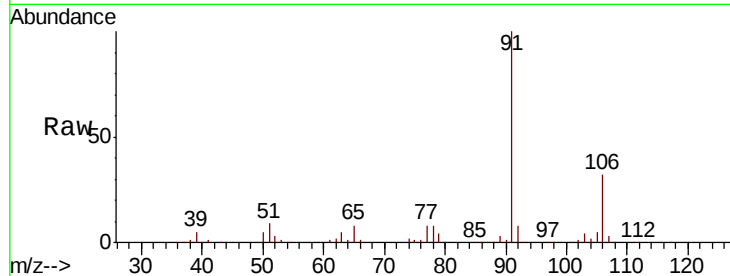
VSTD05071

Tgt Ion: 91 Resp: 267877

Ion Ratio Lower Upper

91 100

106 32.3 22.7 42.1



Abundance Ion 91.00 (90.70 to 91.70): VV007778.D (-2386) (-)

Ion 106.00 (105.70 to 106.70): VV007778.D (-2386) (-)

200000

150000

100000

50000

0

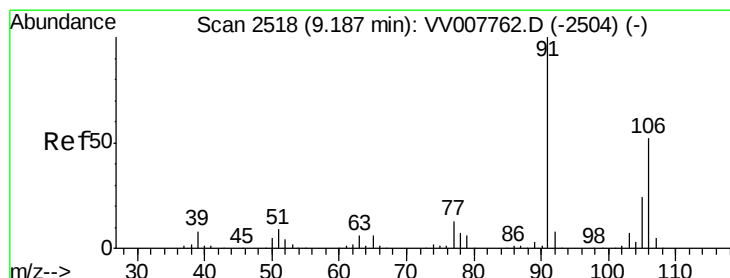
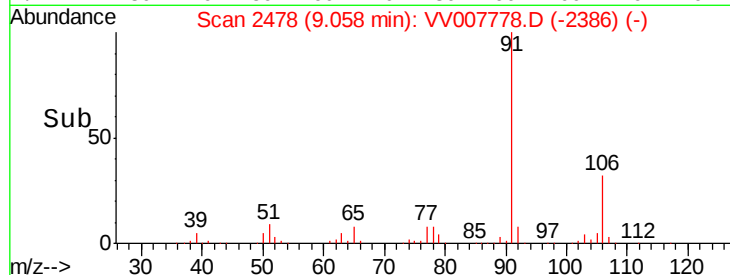
9.06

9.05

9.10

9.15

Time-->



#53

m,p-Xylene

Concen: 46.509 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. -0.00 min

Lab File: VV007778.D

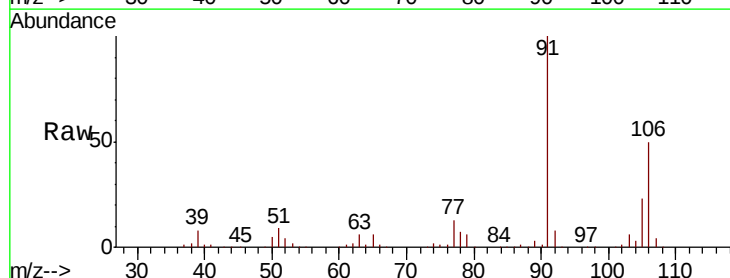
Acq: 23 Sep 2018 10:39

Tgt Ion: 106 Resp: 106222

Ion Ratio Lower Upper

106 100

91 199.4 137.3 254.9



Abundance Ion 106.00 (105.70 to 106.70): VV007778.D (-2425) (-)

Ion 91.00 (90.70 to 91.70): VV007778.D (-2425) (-)

150000

100000

50000

0

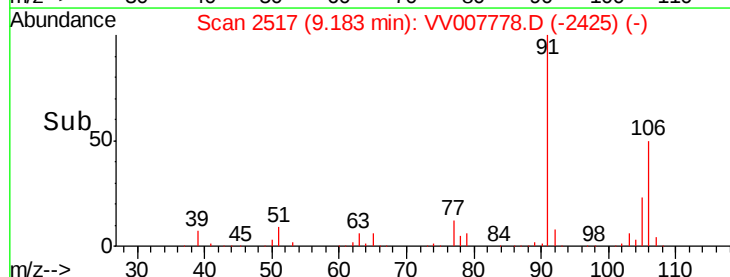
9.18

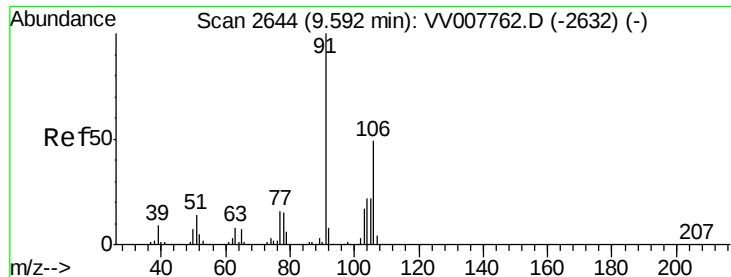
9.15

9.20

9.25

Time-->





#54

o-xylene

Concen: 47.835 ug/L

RT: 9.59 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampled :

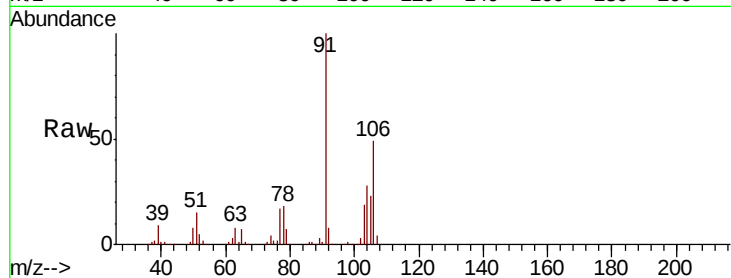
VSTD05071

Tgt Ion:106 Resp: 106575

Ion Ratio Lower Upper

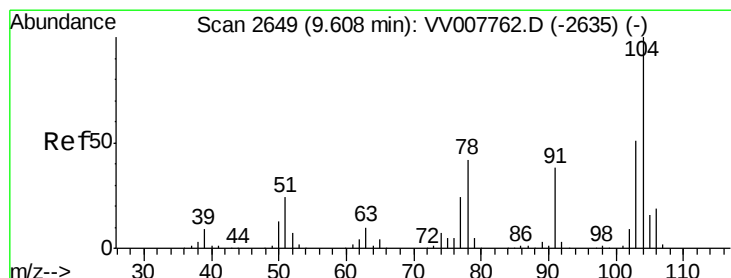
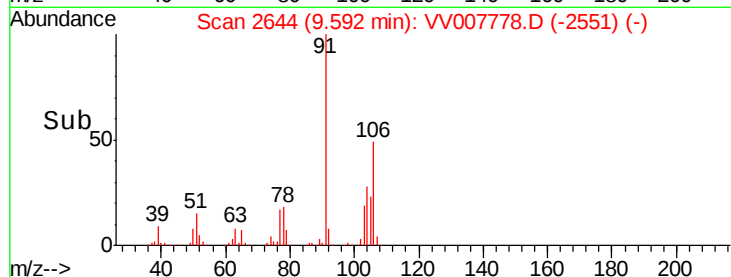
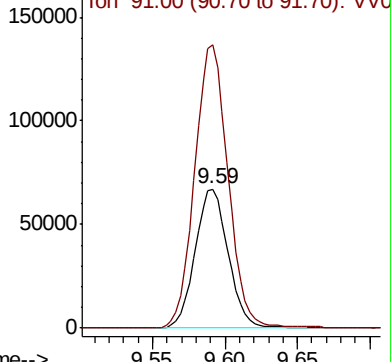
106 100

91 203.3 145.5 270.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 48.760 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. -0.00 min

Lab File: VV007778.D

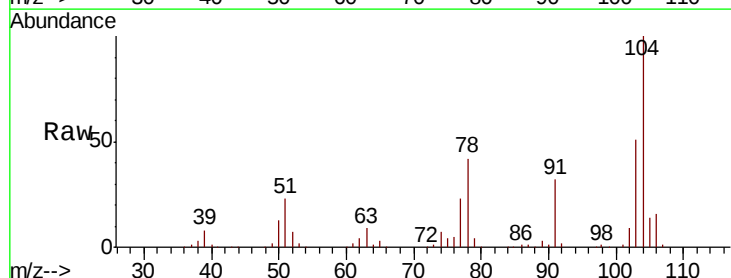
Acq: 23 Sep 2018 10:39

Tgt Ion:104 Resp: 185335

Ion Ratio Lower Upper

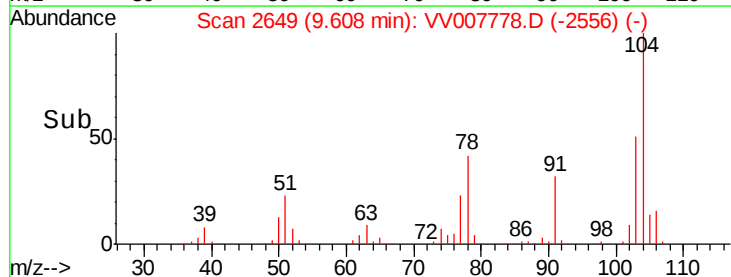
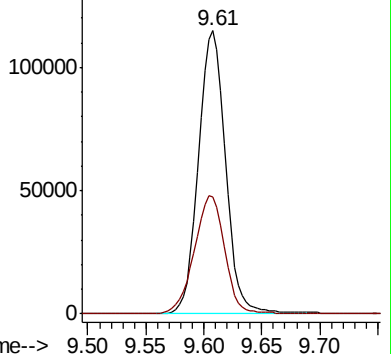
104 100

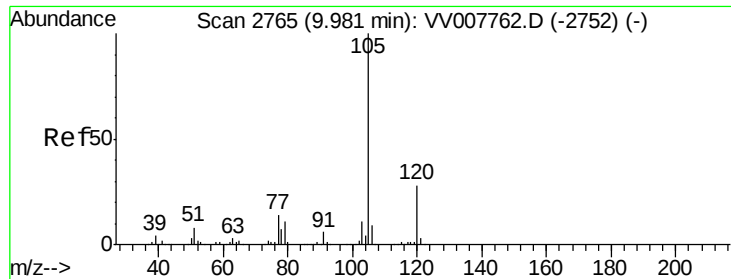
78 41.5 29.1 54.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

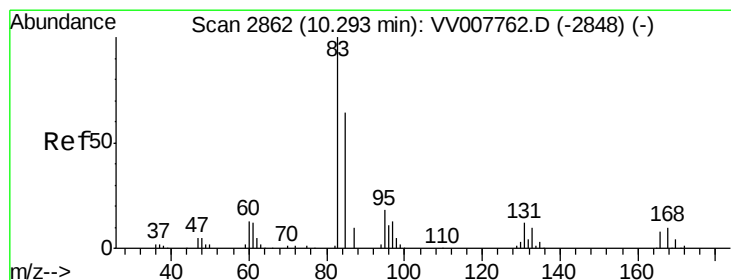
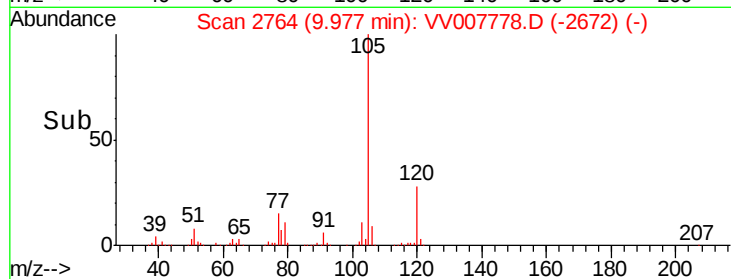
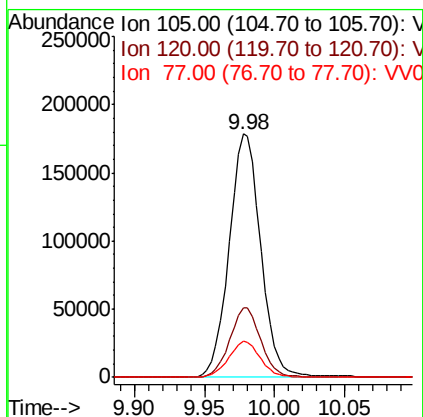
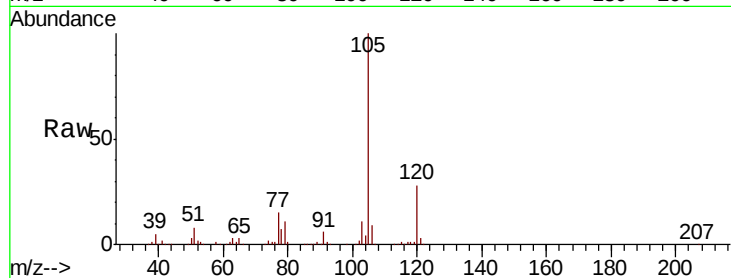




#56
Isopropylbenzene
Concen: 46.594 ug/L
RT: 9.98 min Scan# 2764
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

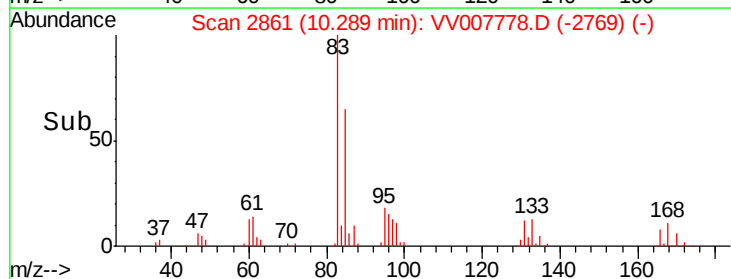
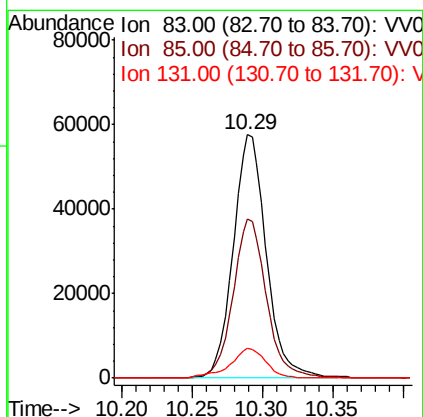
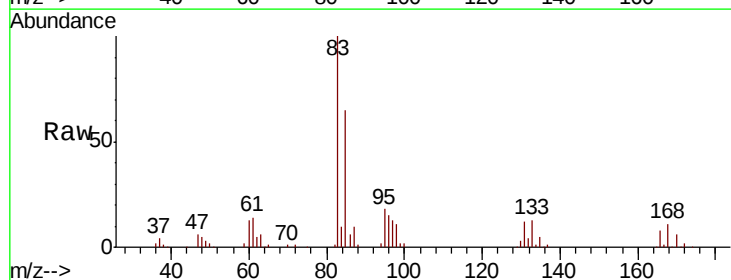
Instrument :
MSVOA_V
ClientSampleId :
VSTD05071

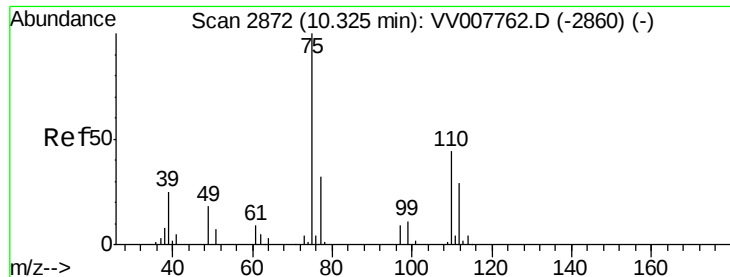
Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.0	22.0	33.0
77	14.9	12.1	18.1



#58
1,1,2,2-Tetrachloroethane
Concen: 49.341 ug/L
RT: 10.29 min Scan# 2861
Delta R.T. -0.00 min
Lab File: VV007778.D
Acq: 23 Sep 2018 10:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	45.4	84.4
131	12.0	9.8	14.8

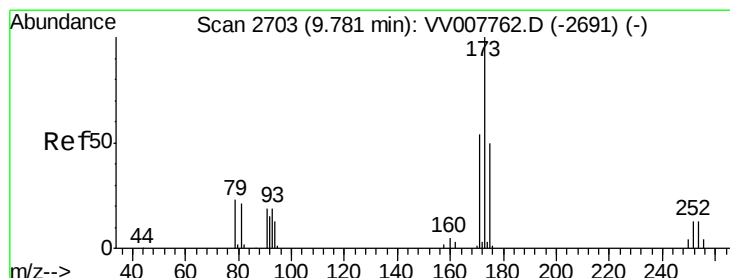
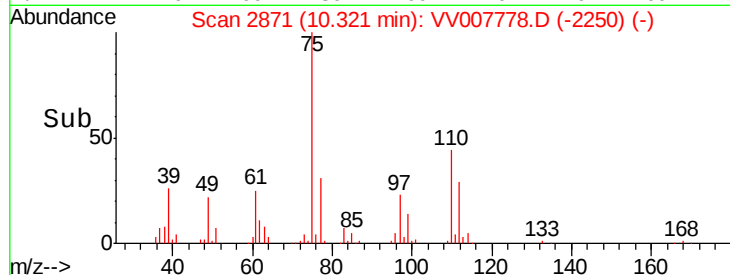
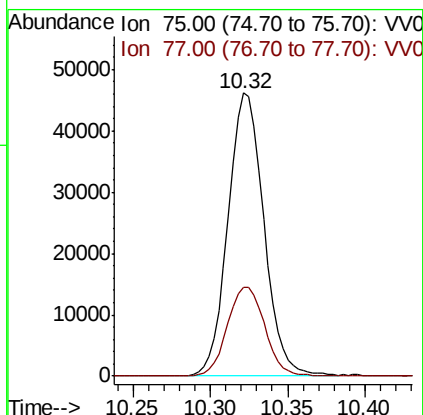
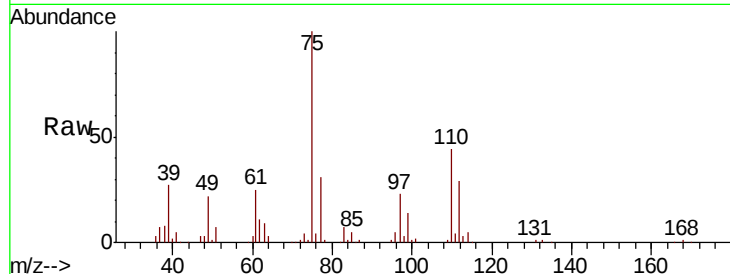




#59
 1,2,3-Trichloropropane
 Concen: 49.079 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VV007778.D
 Acq: 23 Sep 2018 10:39

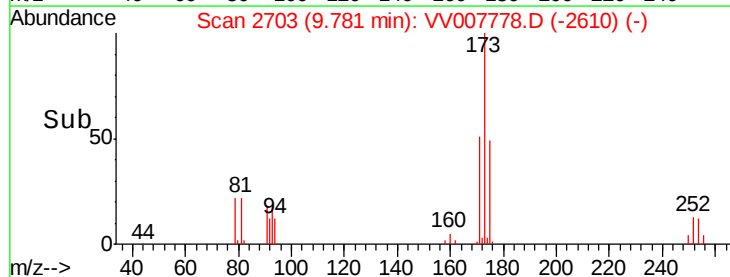
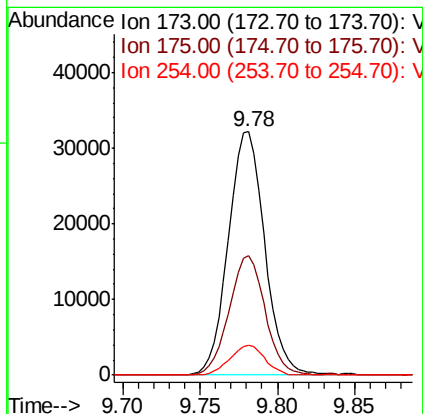
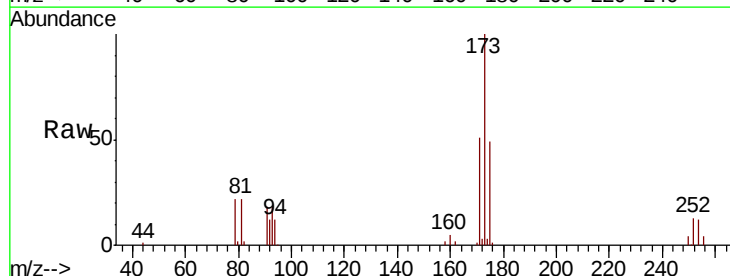
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05071

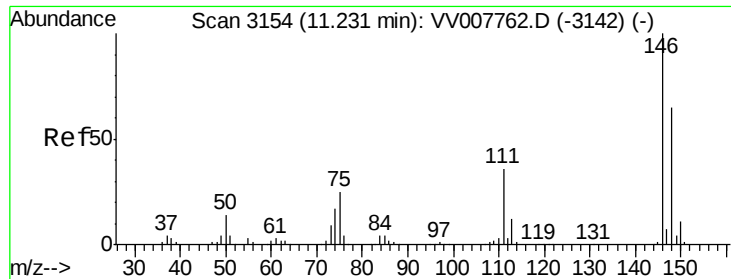
Tgt Ion: 75 Resp: 74419
 Ion Ratio Lower Upper
 75 100
 77 32.6 25.6 38.4



#61
 Bromoform
 Concen: 48.843 ug/L
 RT: 9.78 min Scan# 2703
 Delta R.T. -0.00 min
 Lab File: VV007778.D
 Acq: 23 Sep 2018 10:39

Tgt Ion: 173 Resp: 52616
 Ion Ratio Lower Upper
 173 100
 175 48.3 38.7 58.1
 254 11.7 9.7 14.5

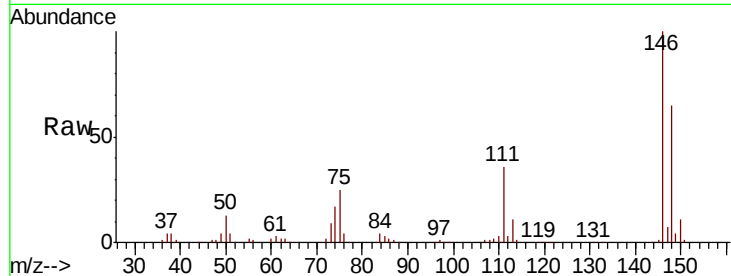




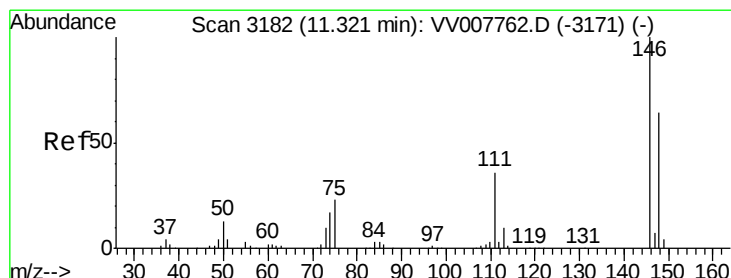
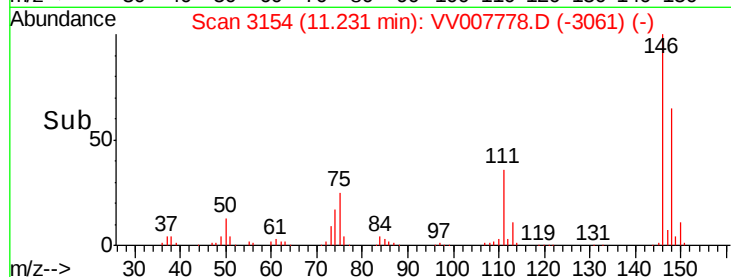
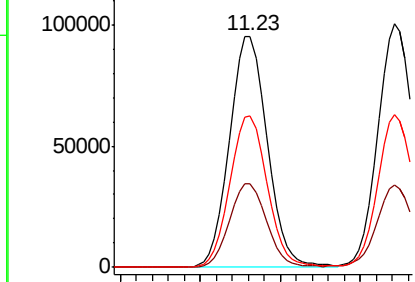
#62
 1,3-Dichlorobenzene
 Concen: 46.851 ug/L
 RT: 11.23 min Scan# 3154
 Delta R.T. -0.00 min
 Lab File: VV007778.D
 Acq: 23 Sep 2018 10:39

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05071

Tgt Ion:146 Resp: 153794
 Ion Ratio Lower Upper
 146 100
 111 36.1 25.1 46.7
 148 65.4 45.1 83.9

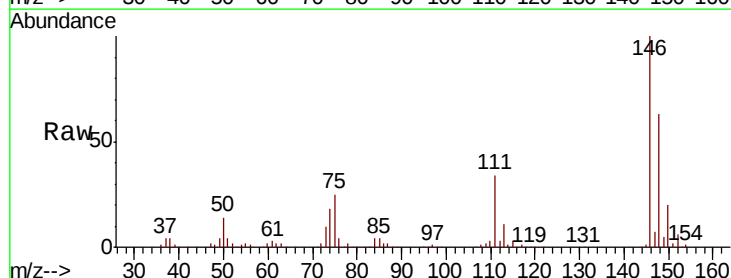


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

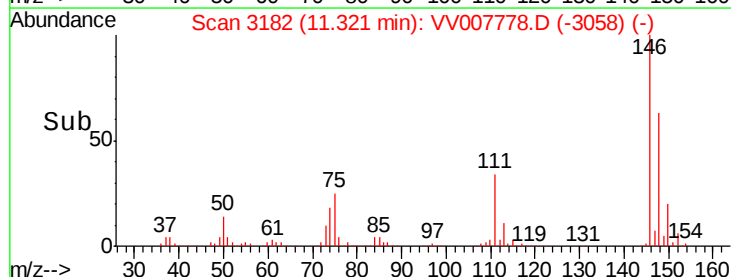
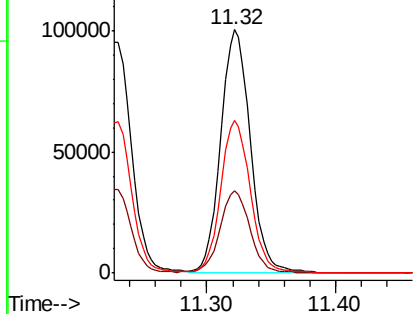


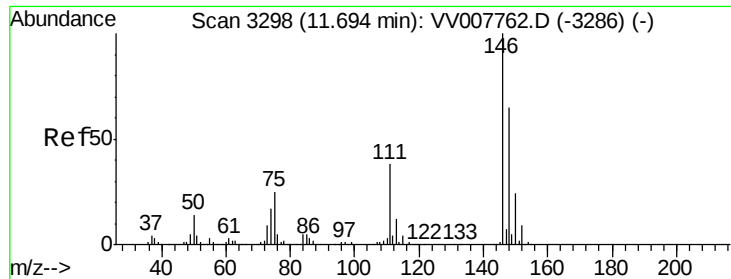
#63
 1,4-Dichlorobenzene
 Concen: 47.114 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. -0.00 min
 Lab File: VV007778.D
 Acq: 23 Sep 2018 10:39

Tgt Ion:146 Resp: 160417
 Ion Ratio Lower Upper
 146 100
 111 33.9 24.4 45.4
 148 62.6 45.1 83.7



Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 48.341 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05071

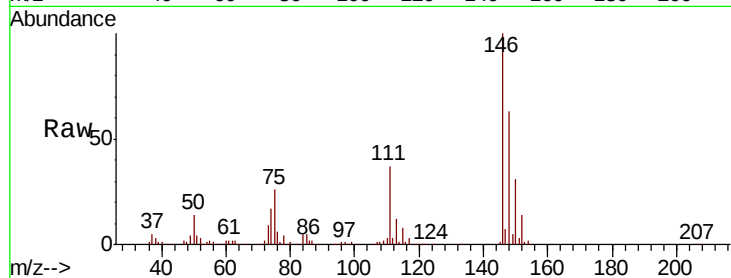
Tgt Ion:146 Resp: 160451

Ion Ratio Lower Upper

146 100

111 36.8 29.8 44.8

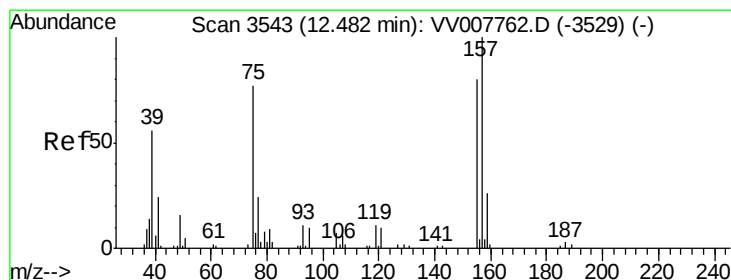
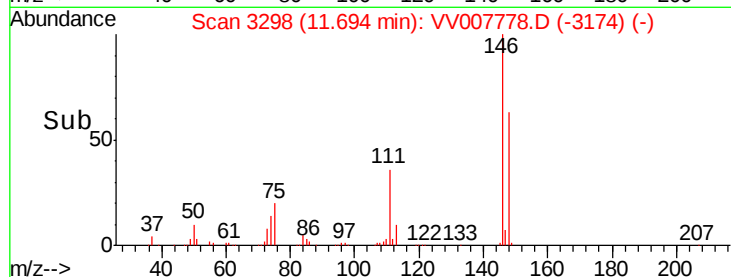
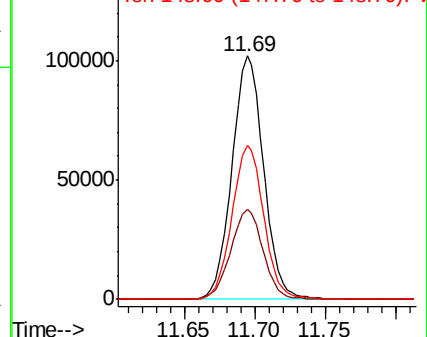
148 63.0 50.8 76.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 47.587 ug/L

RT: 12.48 min Scan# 3543

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

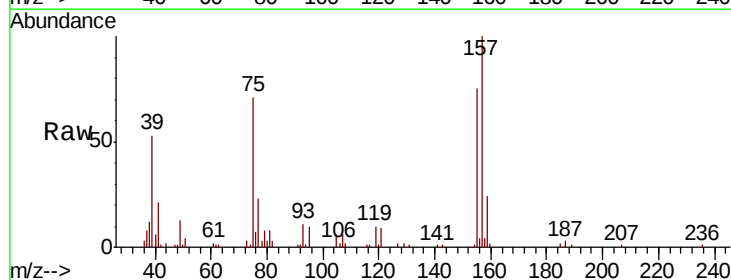
Tgt Ion: 75 Resp: 19102

Ion Ratio Lower Upper

75 100

155 104.6 86.0 129.0

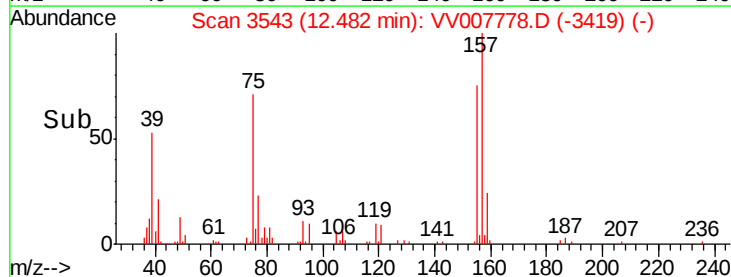
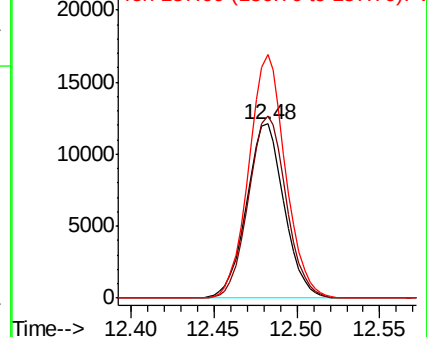
157 139.9 111.5 167.3

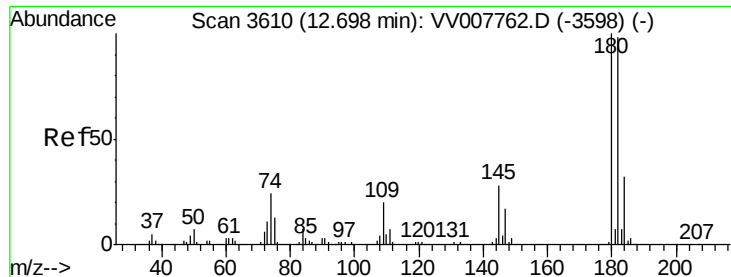


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

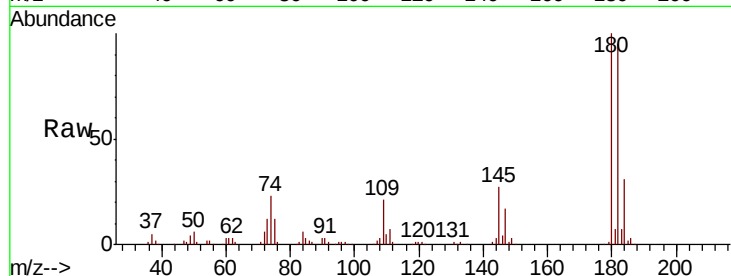




#67
 1,3,5-Trichlorobenzene
 Concen: 45.924 ug/L
 RT: 12.70 min Scan# 3610
 Delta R.T. -0.00 min
 Lab File: VV007778.D
 Acq: 23 Sep 2018 10:39

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05071

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.6	116.4
184	30.8	24.7	37.1
145	27.1	21.8	32.8



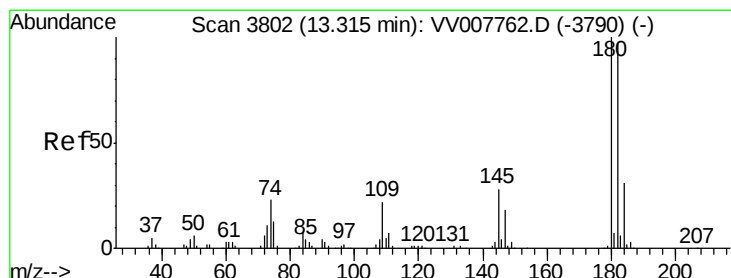
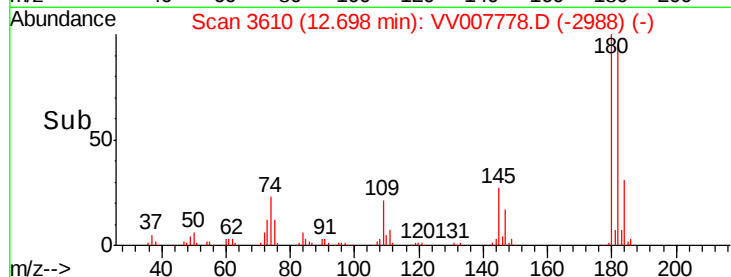
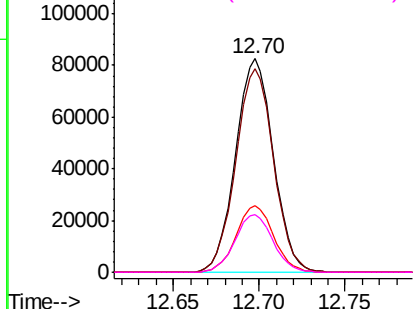
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

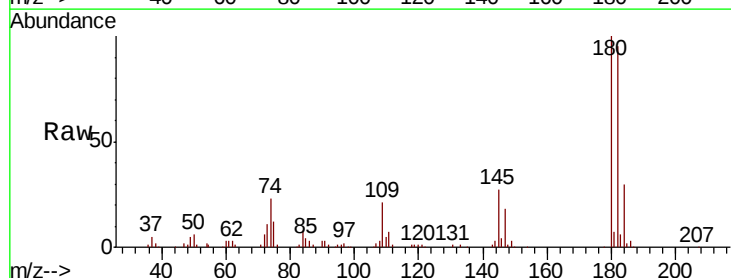
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 46.128 ug/L
 RT: 13.31 min Scan# 3802
 Delta R.T. -0.00 min
 Lab File: VV007778.D
 Acq: 23 Sep 2018 10:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.0	115.6
145	27.7	22.2	33.2

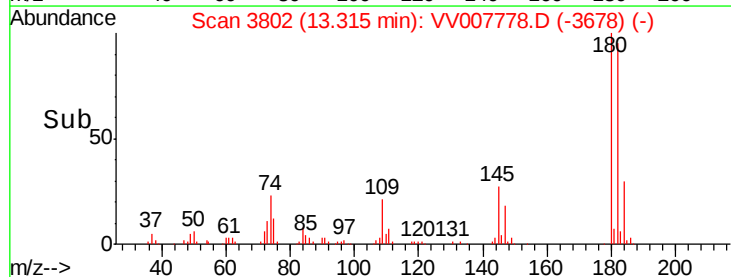
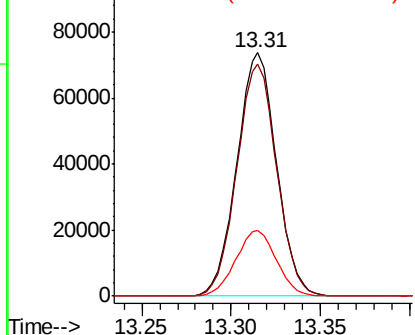


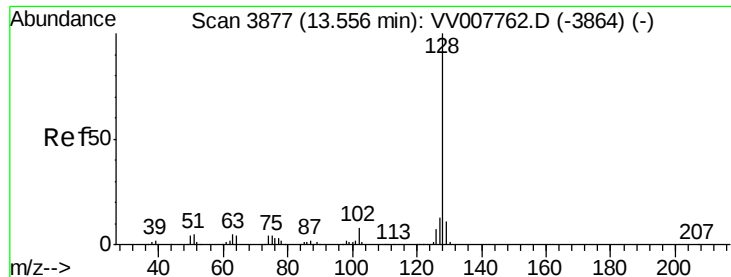
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 47.993 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

Instrument :

MSVOA_V

ClientSampleId :

VSTD05071

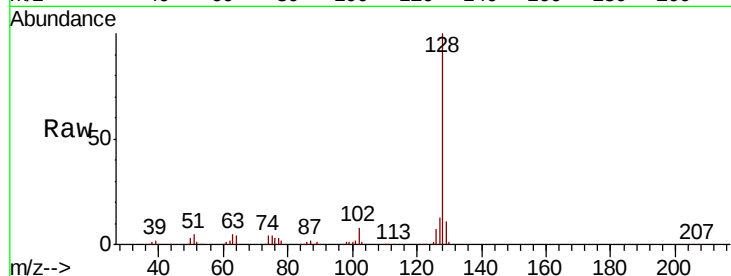
Tgt Ion:128 Resp: 304462

Ion Ratio Lower Upper

128 100

127 12.8 10.6 15.8

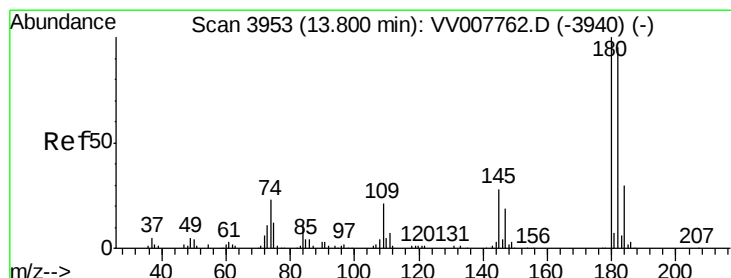
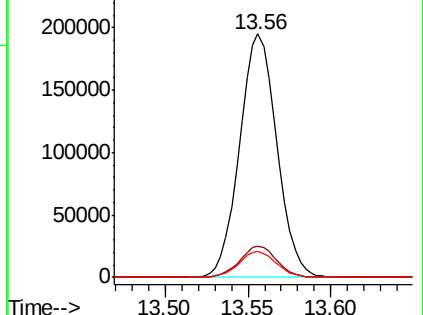
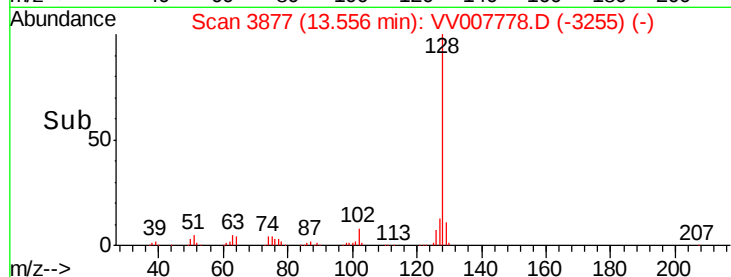
129 10.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 47.431 ug/L

RT: 13.80 min Scan# 3952

Delta R.T. -0.00 min

Lab File: VV007778.D

Acq: 23 Sep 2018 10:39

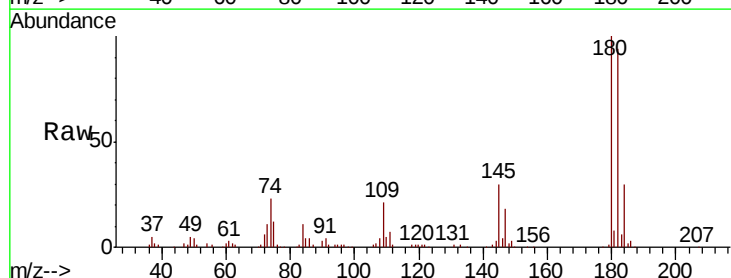
Tgt Ion:180 Resp: 118623

Ion Ratio Lower Upper

180 100

182 94.7 77.4 116.2

145 29.3 23.3 34.9



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

