

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV082018\
 Data File : VV007078.D
 Acq On : 20 Aug 2018 17:29
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00566

Quant Time: Aug 21 04:07:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR080918WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Aug 21 04:05:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	247948	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	238810	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	109019	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	74177	4.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.60%
7) Chloroethane-d5	1.58	69	70347	5.18	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.60%
11) 1,1-Dichloroethene-d2	2.13	63	151184	5.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	100.60%
20) 2-Butanone-d5	3.97	46	242977	52.79	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.58%
24) Chloroform-d	4.41	84	184765	5.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.80%
26) 1,2-Dichloroethane-d4	5.09	65	91443	5.58	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	111.60%
32) Benzene-d6	5.10	84	343180	5.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	111.80%
36) 1,2-Dichloropropane-d6	6.12	67	114854	5.48	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	109.60%
41) Toluene-d8	7.36	98	309076	5.92	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	118.40%
43) trans-1,3-Dichloropropene-	7.67	79	39639	5.43	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	108.60%
46) 2-Hexanone-d5	8.15	63	129966	43.56	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.12%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	88874	5.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.80%
64) 1,2-Dichlorobenzene-d4	11.68	152	103430	5.45	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	109.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	115140	4.768	ug/L 100
3) Chloromethane	1.25	50	116492	5.013	ug/L 100
5) Vinyl chloride	1.32	62	116090	4.834	ug/L 98
6) Bromomethane	1.54	94	32931	6.317	ug/L 100
8) Chloroethane	1.60	64	70279	4.823	ug/L 99
9) Trichlorofluoromethane	1.77	101	155084	5.075	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	95740	5.220	ug/L 99
12) 1,1-Dichloroethene	2.14	96	88448	4.968	ug/L 93
13) Acetone	2.21	43	128685	54.297	ug/L 99
14) Carbon disulfide	2.32	76	256486	4.364	ug/L 99
15) Methyl Acetate	2.47	43	35110	5.264	ug/L 91
16) Methylene chloride	2.54	84	97640	4.548	ug/L 96
17) Methyl tert-butyl Ether	2.82	73	214981	5.036	ug/L 98
18) trans-1,2-Dichloroethene	2.79	96	94723	4.968	ug/L 94
19) 1,1-Dichloroethane	3.23	63	201218	5.846	ug/L 98
21) 2-Butanone	4.05	43	258495	50.235	ug/L 95
22) cis-1,2-Dichloroethene	3.97	96	105729	4.887	ug/L 95

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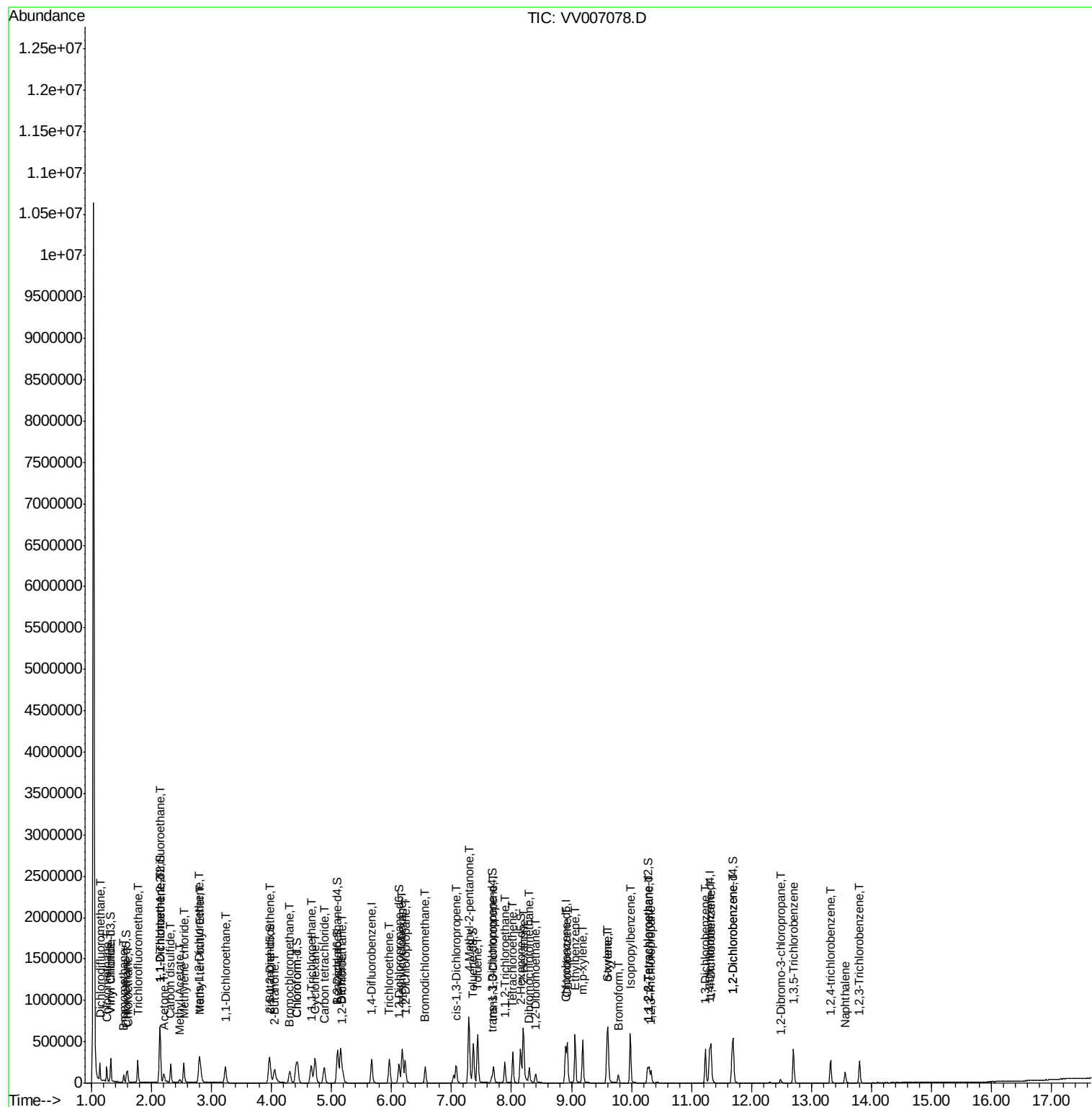
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	47525	5.389	ug/L	88
25) Chloroform	4.43	83	193617	5.141	ug/L	98
27) 1,2-Dichloroethane	5.19	62	114086	4.858	ug/L	96
29) 1,1,1-Trichloroethane	4.66	97	165165	5.187	ug/L	99
30) Cyclohexane	4.73	56	145394	4.387	ug/L	99
31) Carbon tetrachloride	4.88	117	139426	5.221	ug/L	99
33) Benzene	5.15	78	421010	5.089	ug/L	100
34) Trichloroethene	5.96	95	99823	5.032	ug/L	97
35) Methylcyclohexane	6.18	83	147482	4.631	ug/L	99
37) 1,2-Dichloropropane	6.23	63	113227	5.000	ug/L	99
38) Bromodichloromethane	6.56	83	131568	5.113	ug/L	99
39) cis-1,3-Dichloropropene	7.08	75	133430	4.877	ug/L	100
40) 4-Methyl-2-pentanone	7.29	43	576267	47.107	ug/L	99
42) Toluene	7.44	91	425253	5.349	ug/L	100
44) trans-1,3-Dichloropropene	7.70	75	111821	4.980	ug/L	98
45) 1,1,2-Trichloroethane	7.89	97	76645	5.203	ug/L	98
47) Tetrachloroethene	8.02	164	85188	5.296	ug/L	97
48) 2-Hexanone	8.20	43	448265	51.956	ug/L	96
49) Dibromochloromethane	8.30	129	84030	5.437	ug/L	96
50) 1,2-Dibromoethane	8.40	107	65415	5.256	ug/L #	99
51) Chlorobenzene	8.93	112	263217	5.194	ug/L	98
52) Ethylbenzene	9.06	91	396011	4.988	ug/L	100
53) m,p-xylene	9.19	106	149087	5.038	ug/L	96
54) o-xylene	9.59	106	142144	5.069	ug/L	98
55) Styrene	9.61	104	244475	5.172	ug/L	98
56) Isopropylbenzene	9.98	105	373461	5.076	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	90959	5.080	ug/L	95
59) 1,2,3-Trichloropropane	10.33	75	66162	5.219	ug/L	99
61) Bromoform	9.78	173	46117	5.585	ug/L	97
62) 1,3-Dichlorobenzene	11.23	146	181623	5.148	ug/L	99
63) 1,4-Dichlorobenzene	11.32	146	187840	5.195	ug/L	98
65) 1,2-Dichlorobenzene	11.70	146	182882	5.270	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	10189	4.136	ug/L	87
67) 1,3,5-Trichlorobenzene	12.70	180	134311	5.031	ug/L	98
68) 1,2,4-trichlorobenzene	13.32	180	89170	4.551	ug/L	99
69) Naphthalene	13.56	128	104381	3.709	ug/L	99
70) 1,2,3-Trichlorobenzene	13.80	180	86857	4.599	ug/L	98

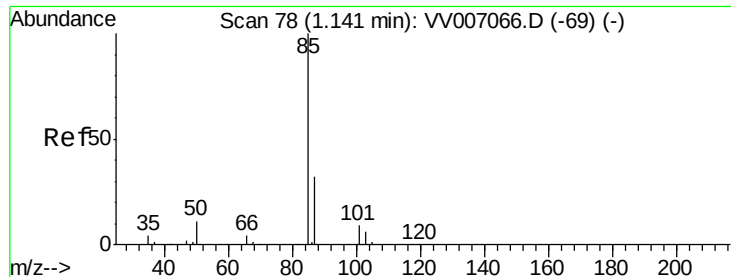
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.768 ug/L

RT: 1.14 min Scan# 78

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

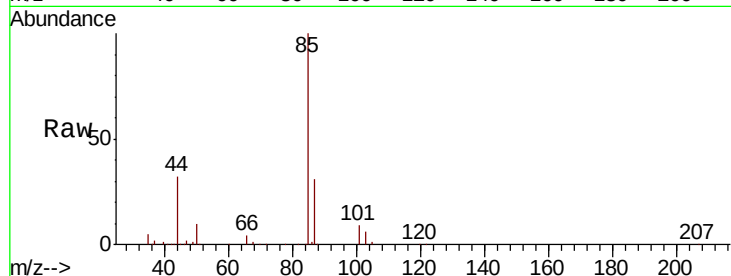
VSTD00566

Tot Ion: 85 Resp: 115140

Ion Ratio Lower Upper

85 100

87 32.1 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VV007066.D (-69) (-)

Ion 87.00 (86.70 to 87.70): VV007066.D (-69) (-)

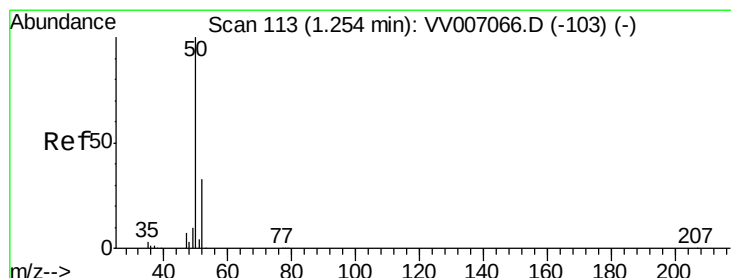
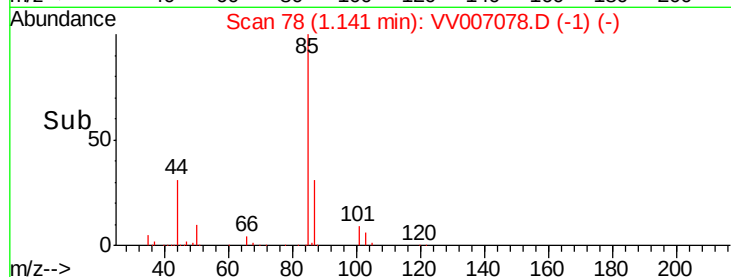
1.14

100000

50000

0

Time-->



#3

Chloromethane

Concen: 5.013 ug/L

RT: 1.25 min Scan# 113

Delta R.T. -0.00 min

Lab File: VV007078.D

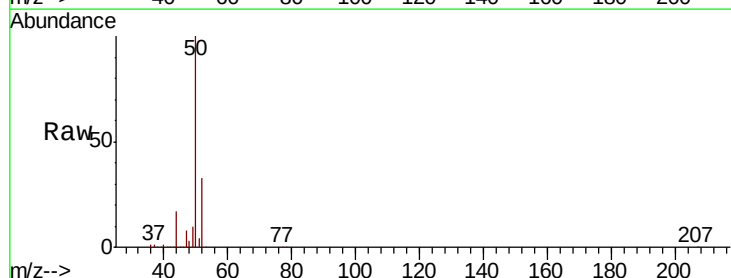
Acq: 20 Aug 2018 17:29

Tgt Ion: 50 Resp: 116492

Ion Ratio Lower Upper

50 100

52 33.5 23.6 43.8



Abundance Ion 50.05 (49.75 to 50.75): VV007066.D (-103) (-)

Ion 52.05 (51.75 to 52.75): VV007066.D (-103) (-)

1.25

120000

100000

80000

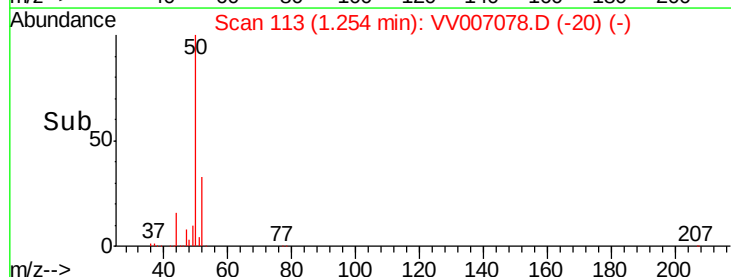
60000

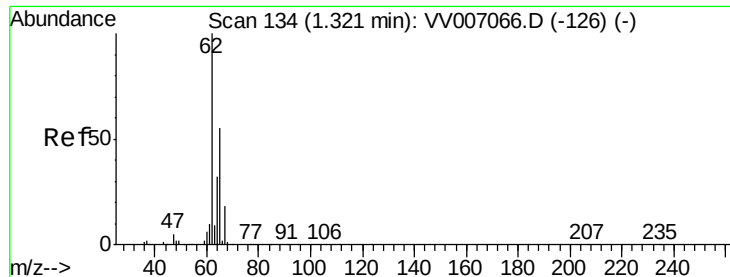
40000

20000

0

Time-->





#5

Vinyl chloride

Concen: 4.834 ug/L

RT: 1.32 min Scan# 135

Delta R.T. 0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

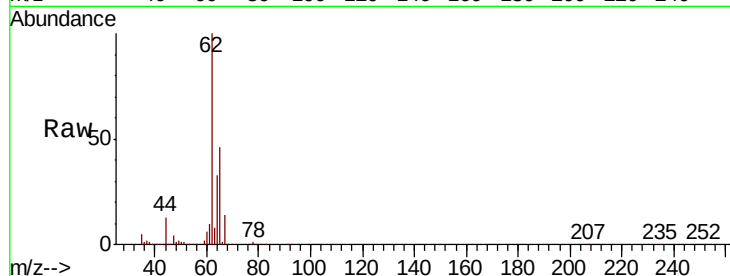
VSTD00566

Tot Ion: 62 Resp: 116090

Ion Ratio Lower Upper

62 100

64 32.6 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VV007066.D (-126) (-)

Ion 64.10 (63.80 to 64.80): VV007066.D (-126) (-)

1.32

120000

100000

80000

60000

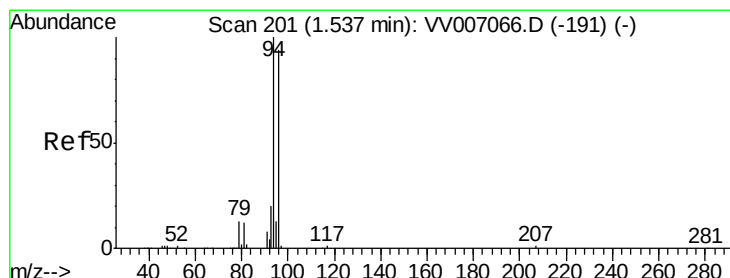
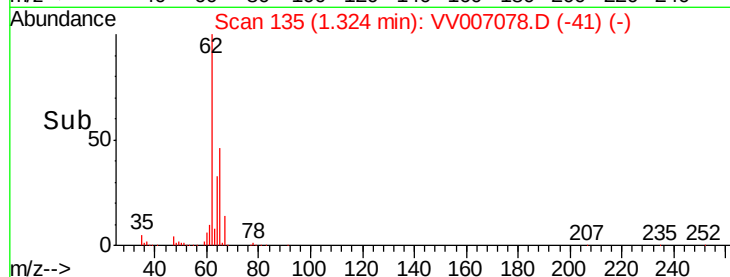
40000

20000

0

1.25 1.30 1.35 1.40 1.45

Time-->



#6

Bromomethane

Concen: 6.317 ug/L

RT: 1.54 min Scan# 201

Delta R.T. -0.00 min

Lab File: VV007078.D

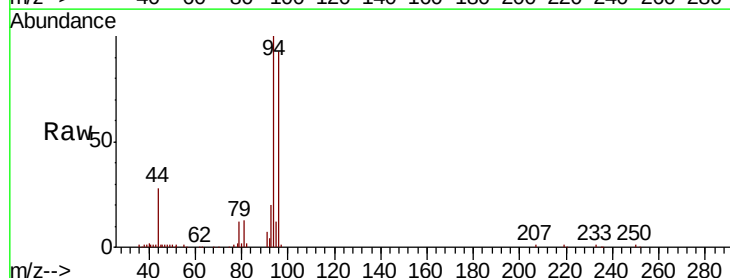
Acq: 20 Aug 2018 17:29

Tgt Ion: 94 Resp: 32931

Ion Ratio Lower Upper

94 100

96 93.2 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VV007066.D (-191) (-)

Ion 96.00 (95.70 to 96.70): VV007066.D (-191) (-)

1.54

30000

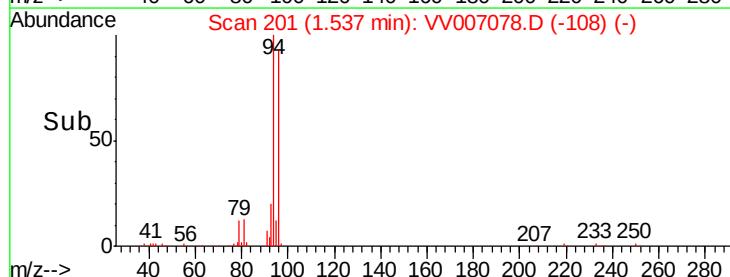
20000

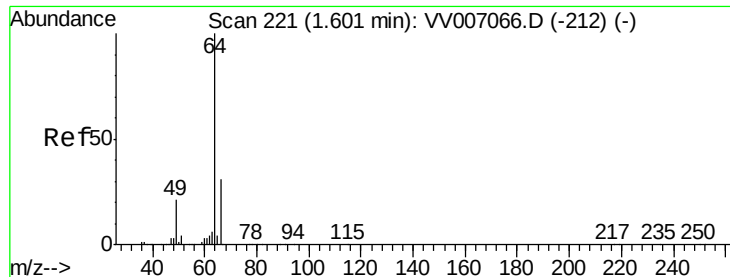
10000

0

1.50 1.55

Time-->





#8

Chloroethane

Concen: 4.823 ug/L

RT: 1.60 min Scan# 221

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

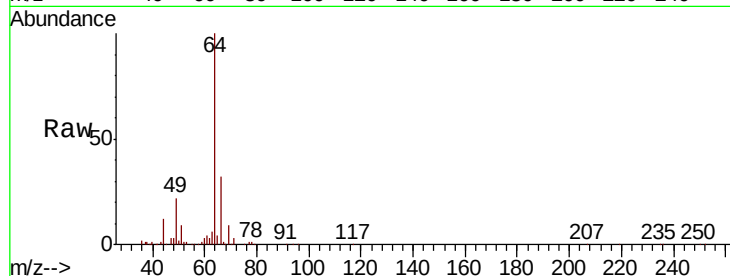
VSTD00566

Tot Ion: 64 Resp: 70279

Ion Ratio Lower Upper

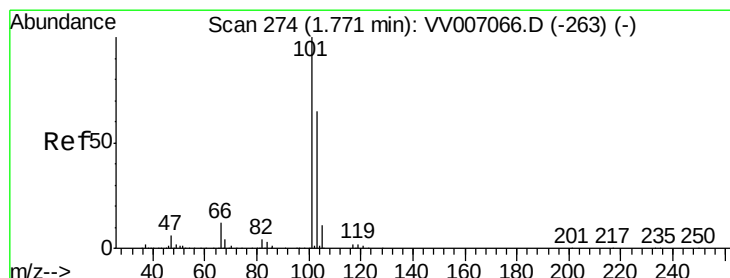
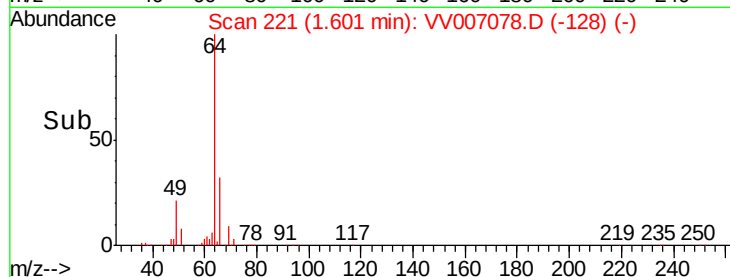
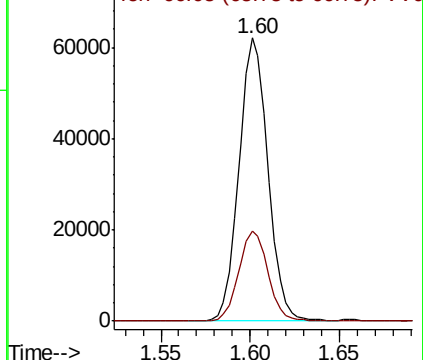
64 100

66 32.0 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VV007066.D (-212) (-)

Ion 66.05 (65.75 to 66.75): VV007066.D (-212) (-)



#9

Trichlorofluoromethane

Concen: 5.075 ug/L

RT: 1.77 min Scan# 274

Delta R.T. -0.00 min

Lab File: VV007078.D

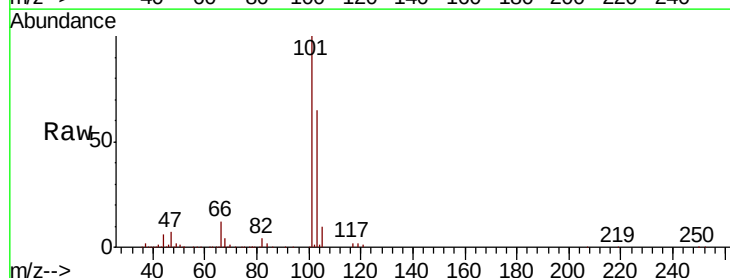
Acq: 20 Aug 2018 17:29

Tgt Ion:101 Resp: 155084

Ion Ratio Lower Upper

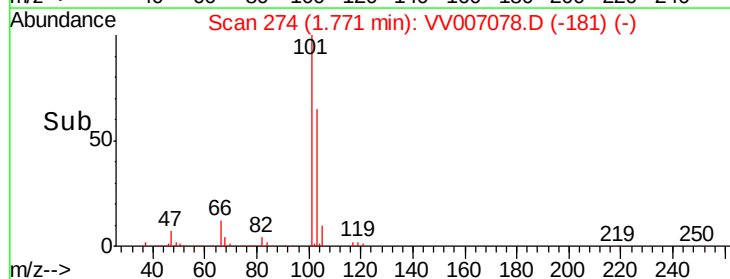
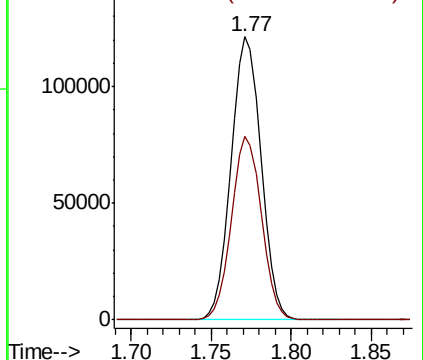
101 100

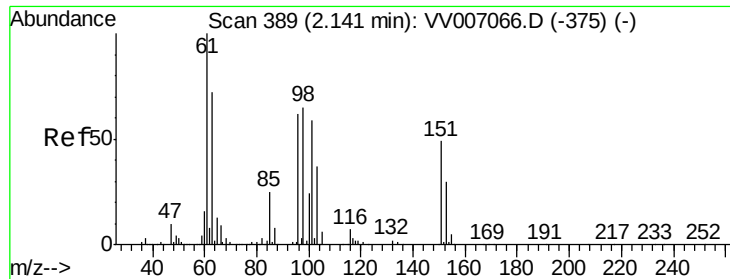
103 64.7 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): VV007066.D (-263) (-)

Ion 103.00 (102.70 to 103.70): VV007066.D (-263) (-)





#10

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

Concen: 5.220 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

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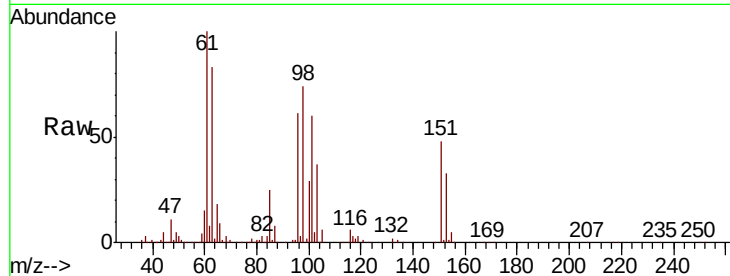
Tot Ion:101 Resp: 95740

Ion Ratio Lower Upper

101 100

85 41.7 33.9 50.9

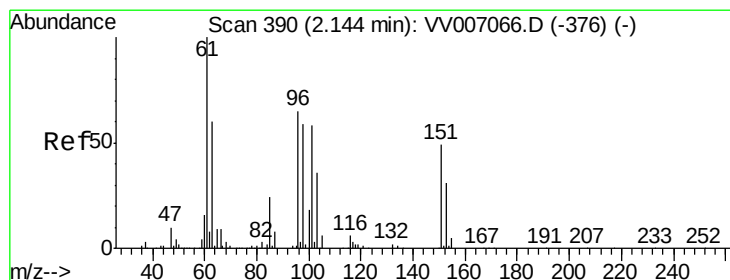
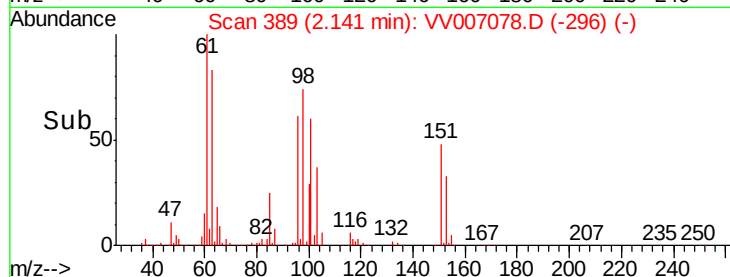
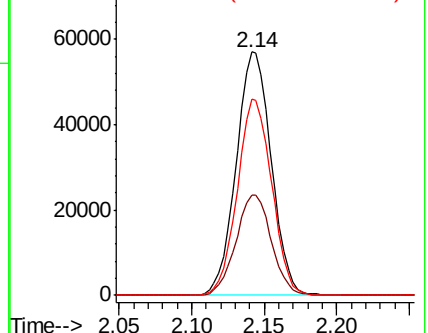
151 79.2 64.1 96.1



Abundance Ion 101.00 (100.70 to 101.70): VV007066.D (-375) (-)

Ion 85.00 (84.70 to 85.70): VV007066.D (-375) (-)

Ion 151.00 (150.70 to 151.70): VV007066.D (-375) (-)



#12

1,1-Dichloroethene

Concen: 4.968 ug/L

RT: 2.14 min Scan# 390

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

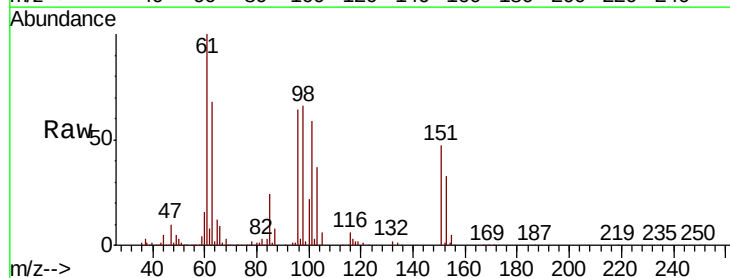
Tgt Ion: 96 Resp: 88448

Ion Ratio Lower Upper

96 100

61 155.8 111.6 207.4

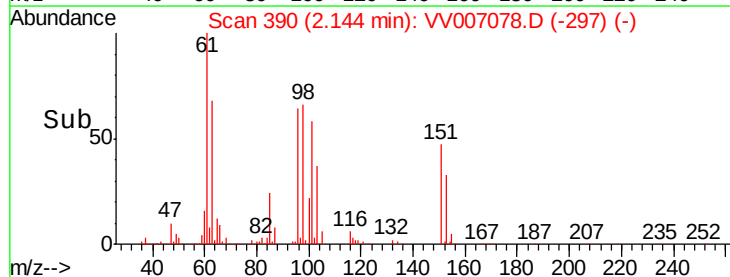
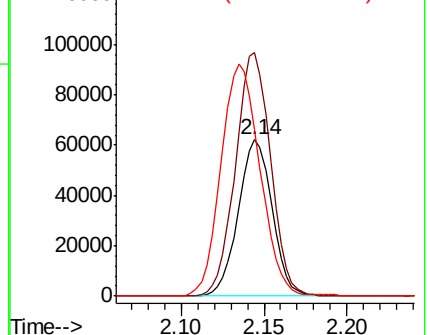
63 106.4 84.9 157.7

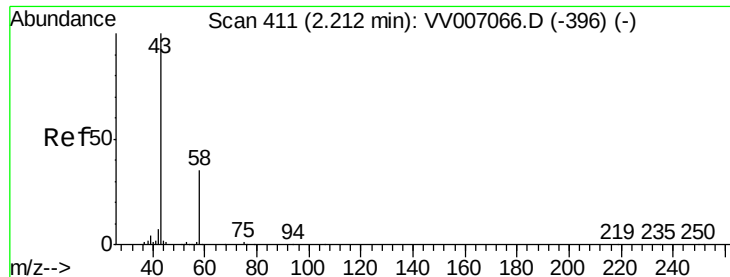


Abundance Ion 96.00 (95.70 to 96.70): VV007066.D (-376) (-)

Ion 61.05 (60.75 to 61.75): VV007066.D (-376) (-)

Ion 63.00 (62.70 to 63.70): VV007066.D (-376) (-)





#13

Acetone

Concen: 54.297 ug/L

RT: 2.21 min Scan# 409

Delta R.T. -0.01 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

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ClientSampleId :

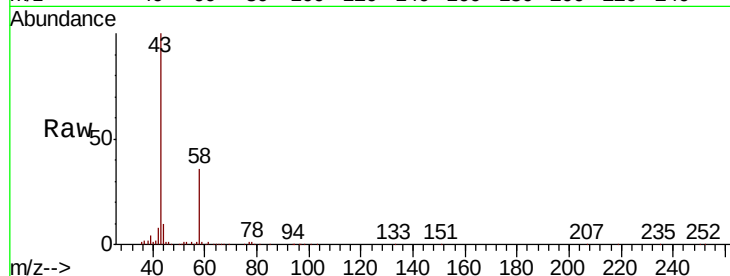
VSTD00566

Tot Ion: 43 Resp: 128685

Ion Ratio Lower Upper

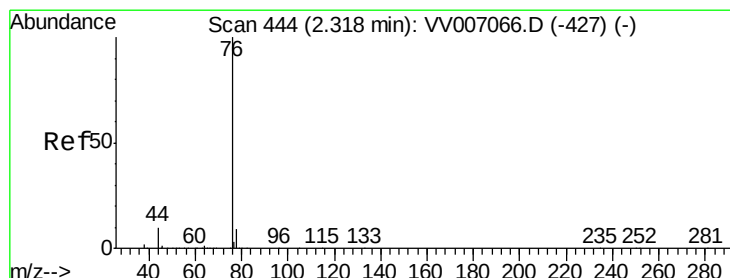
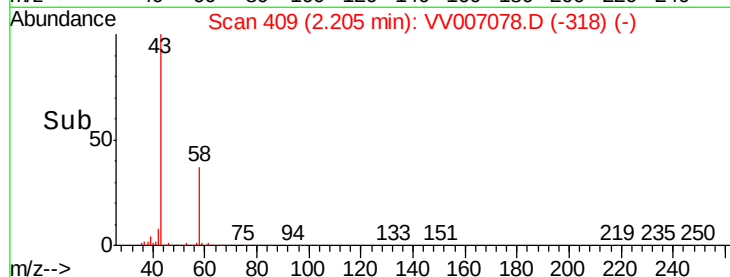
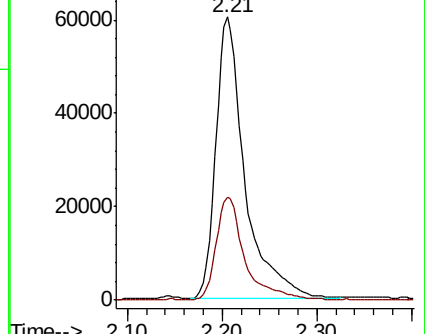
43 100

58 36.1 0.0 71.4



Abundance Ion 43.05 (42.75 to 43.75): VV007066.D (-396) (-)

Ion 58.05 (57.75 to 58.75): VV007066.D (-396) (-)



#14

Carbon disulfide

Concen: 4.364 ug/L

RT: 2.32 min Scan# 445

Delta R.T. 0.00 min

Lab File: VV007078.D

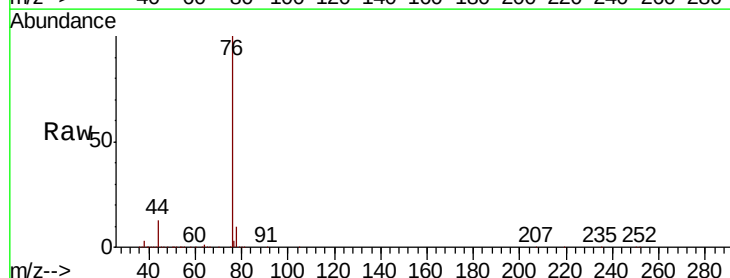
Acq: 20 Aug 2018 17:29

Tgt Ion: 76 Resp: 256486

Ion Ratio Lower Upper

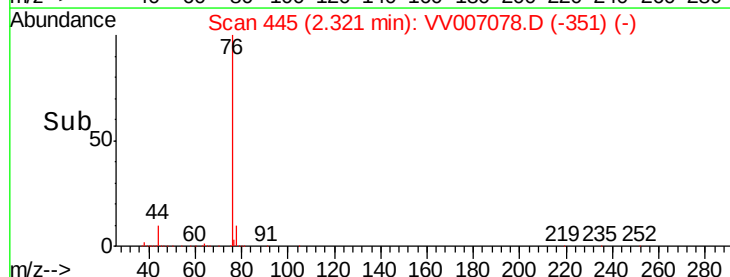
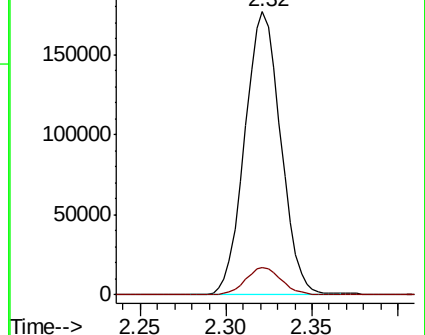
76 100

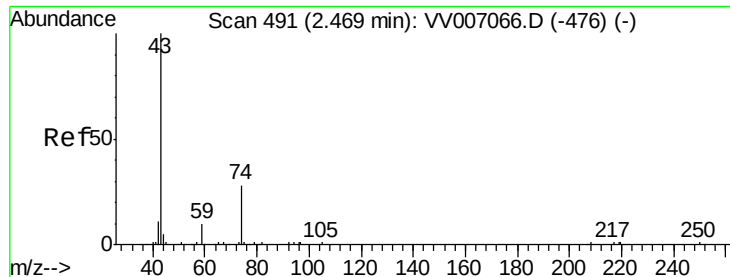
78 9.9 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VV007066.D (-427) (-)

Ion 78.00 (77.70 to 78.70): VV007066.D (-427) (-)

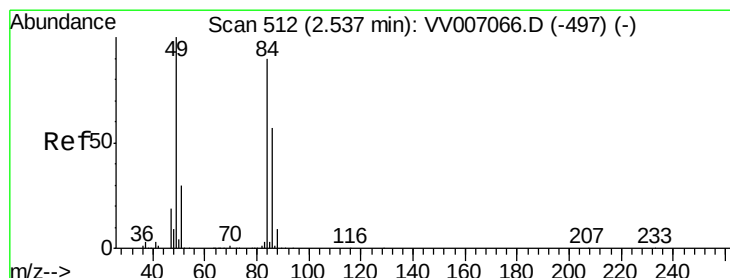
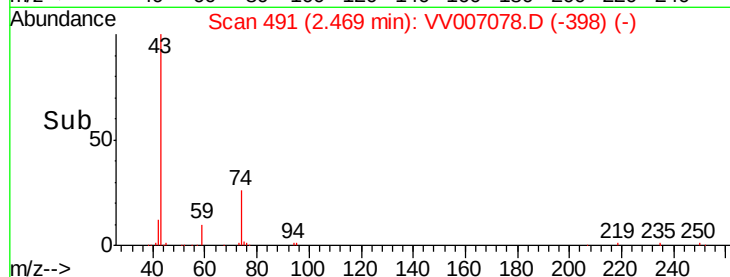
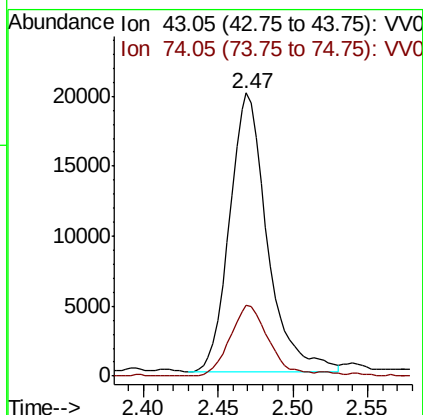
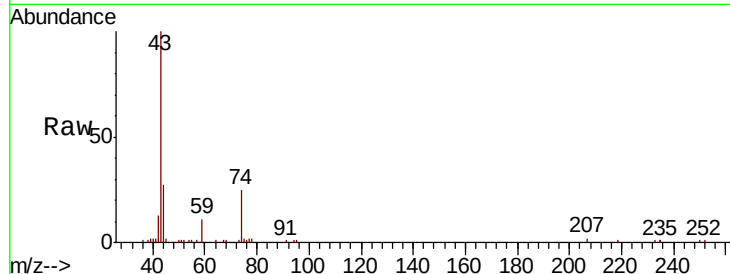




#15
Methvl Acetate
Concen: 5.264 ug/L
RT: 2.47 min Scan# 491
Delta R.T. -0.00 min
Lab File: VV007078.D
Acq: 20 Aug 2018 17:29

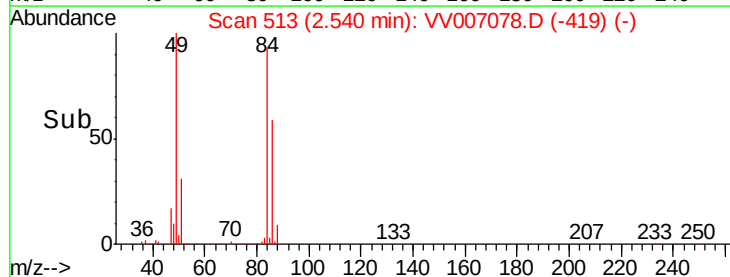
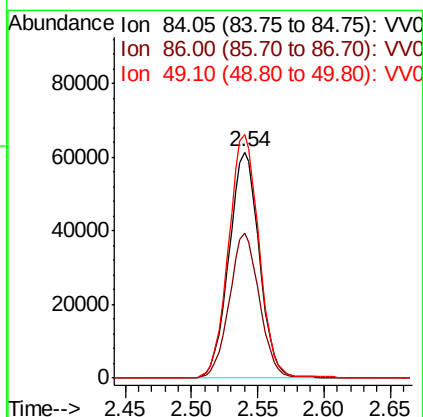
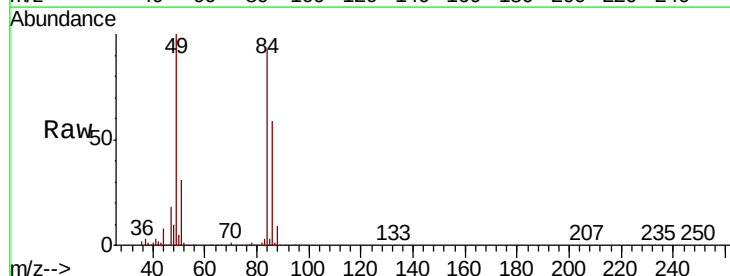
Instrument :
MSVOA_V
ClientSampleId :
VSTD00566

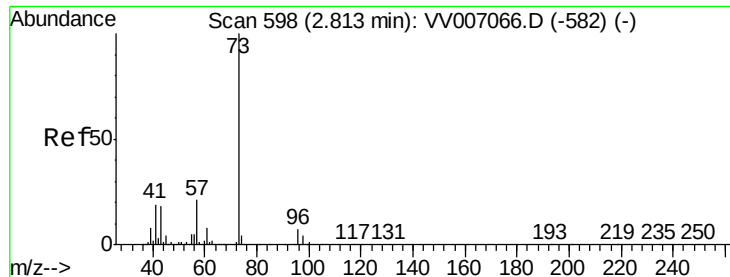
Tot Ion: 43 Resp: 35110
Ion Ratio Lower Upper
43 100
74 25.9 24.6 37.0



#16
Methylene chloride
Concen: 4.548 ug/L
RT: 2.54 min Scan# 513
Delta R.T. 0.00 min
Lab File: VV007078.D
Acq: 20 Aug 2018 17:29

Tgt Ion: 84 Resp: 97640
Ion Ratio Lower Upper
84 100
86 63.9 45.7 84.9
49 107.6 78.8 146.4

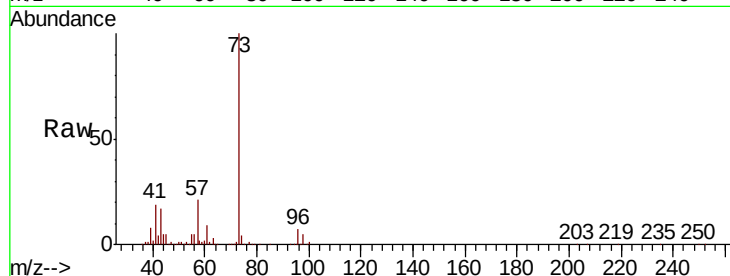




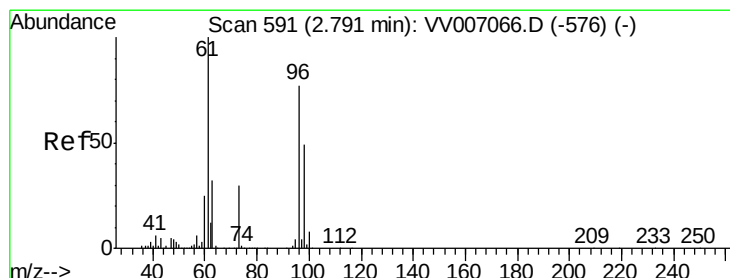
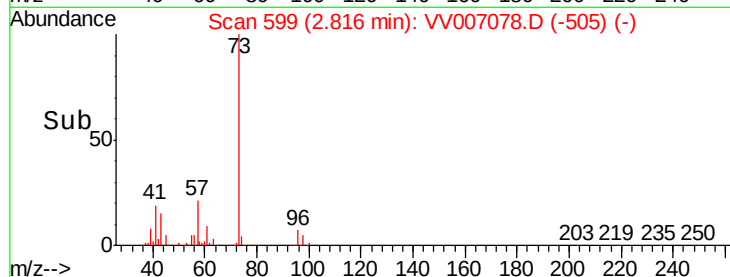
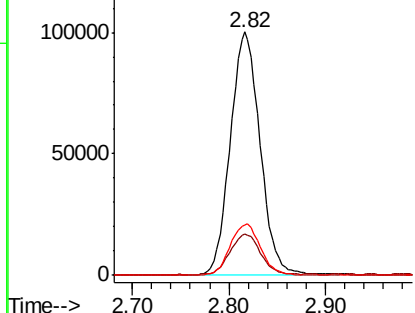
#17
Methyl tert-butyl Ether
Concen: 5.036 ug/L
RT: 2.82 min Scan# 599
Delta R.T. 0.00 min
Lab File: VV007078.D
Acq: 20 Aug 2018 17:29

Instrument :
MSVOA_V
ClientSampleId :
VSTD00566

Tot Ion	Ratio	Lower	Upper
73	100		
43	16.9	14.4	21.6
57	21.4	17.9	26.9

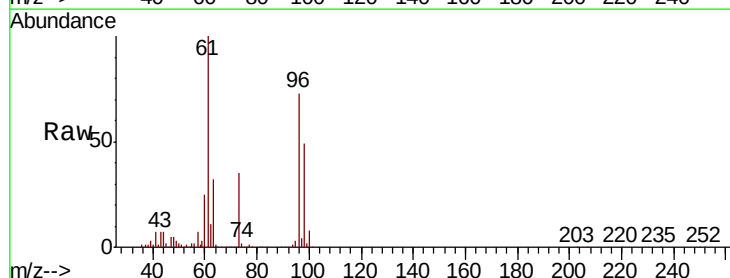


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

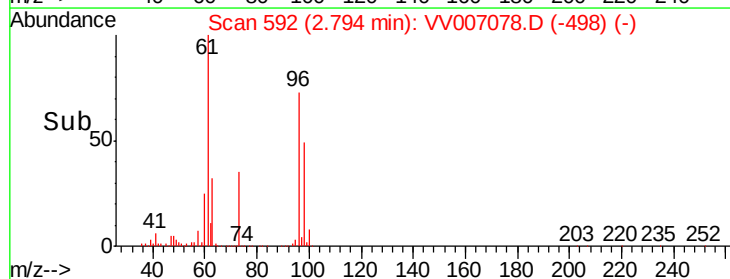
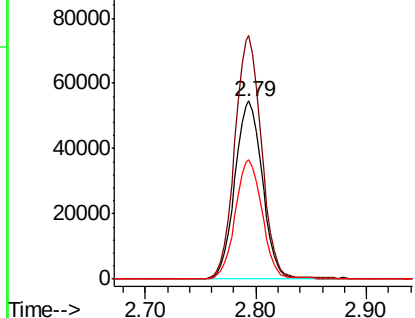


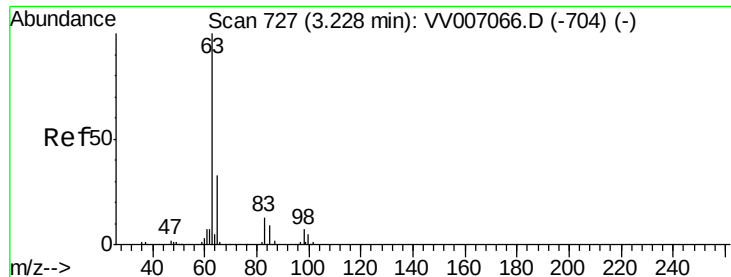
#18
trans-1,2-Dichloroethene
Concen: 4.968 ug/L
RT: 2.79 min Scan# 592
Delta R.T. 0.00 min
Lab File: VV007078.D
Acq: 20 Aug 2018 17:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	136.9	91.1	169.3
98	67.1	43.5	80.9



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

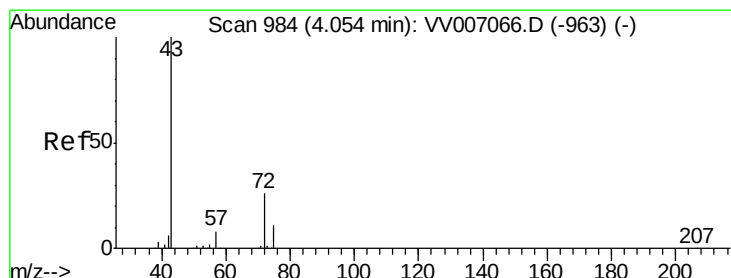
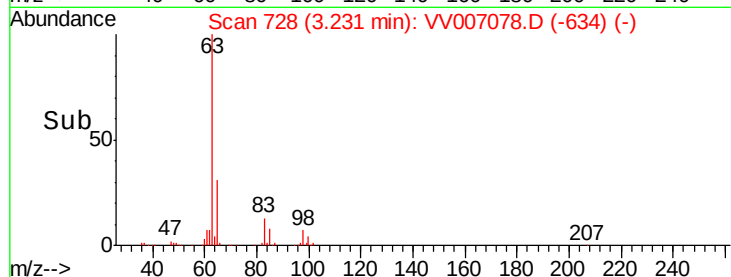
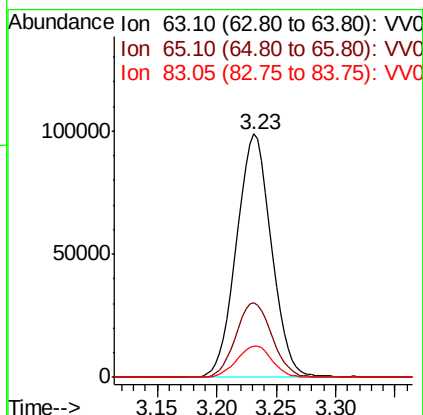
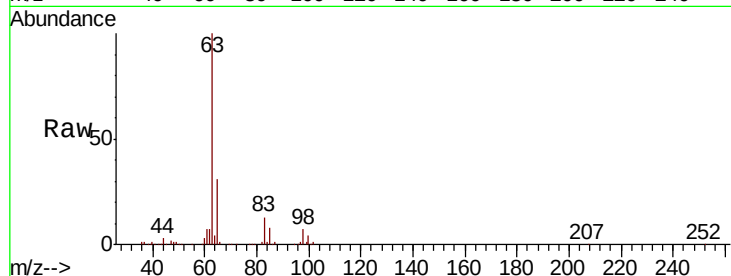




#19
 1,1-Dichloroethane
 Concen: 5.846 ug/L
 RT: 3.23 min Scan# 728
 Delta R.T. 0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

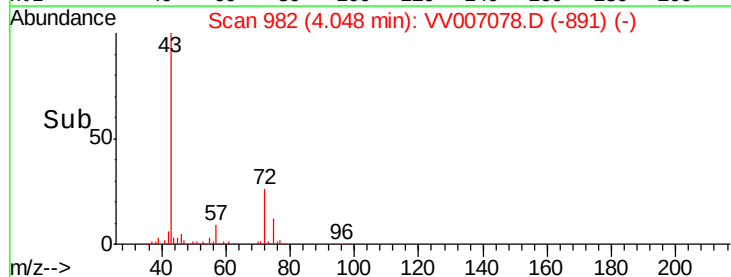
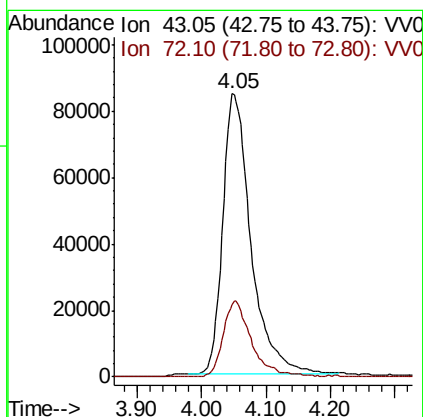
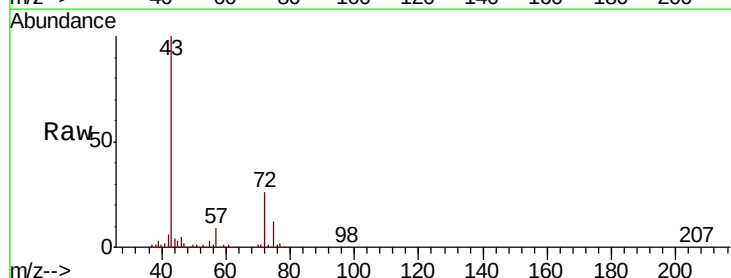
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00566

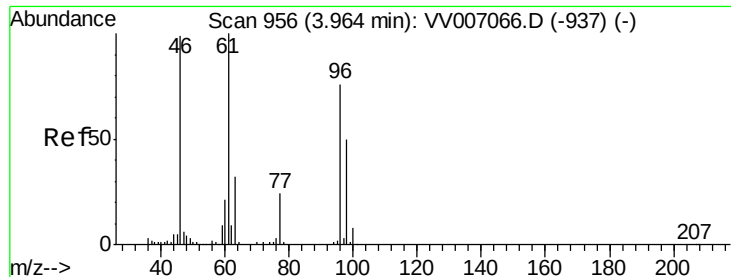
Tot Ion	Ratio	Lower	Upper
63	100		
65	30.7	21.7	40.3
83	12.8	10.0	18.6



#21
 2-Butanone
 Concen: 50.235 ug/L
 RT: 4.05 min Scan# 982
 Delta R.T. -0.01 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.3	12.4	37.2



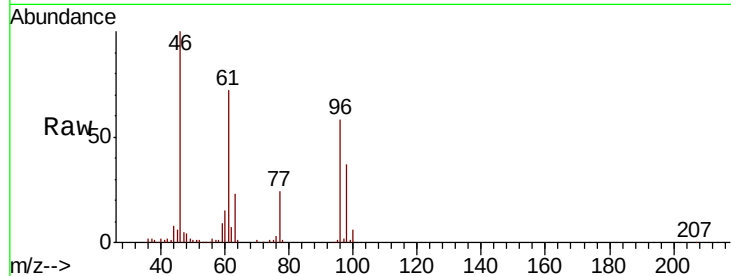


#22

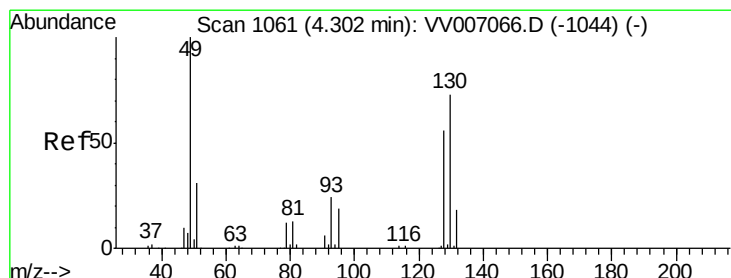
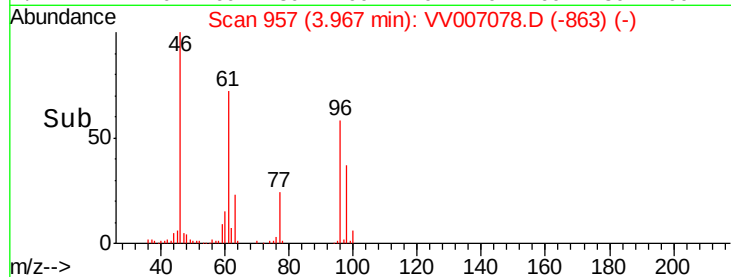
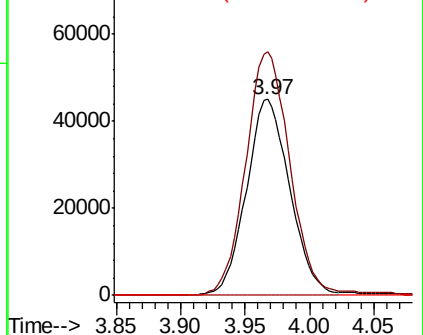
cis-1,2-Dichloroethene
 Concen: 4.887 ug/L
 RT: 3.97 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00566

Tot Ion: 96 Resp: 105729
 Ion Ratio Lower Upper
 96 100
 61 124.2 91.1 169.1
 68 0.0 0.0 0.0



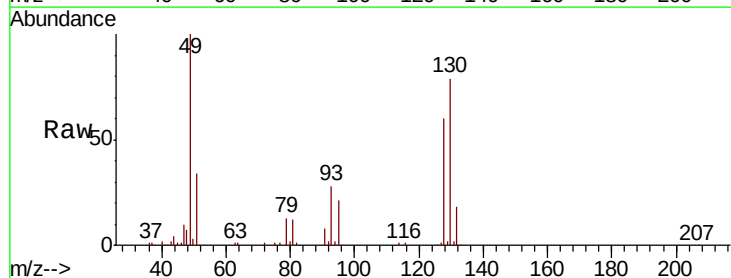
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



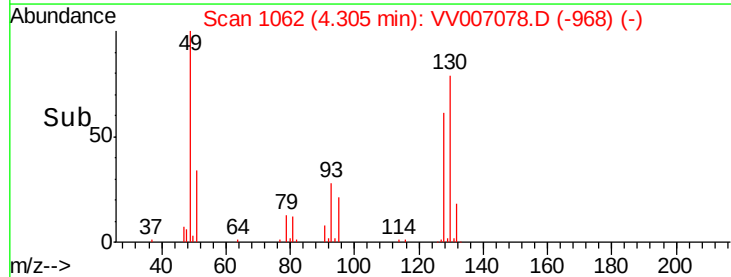
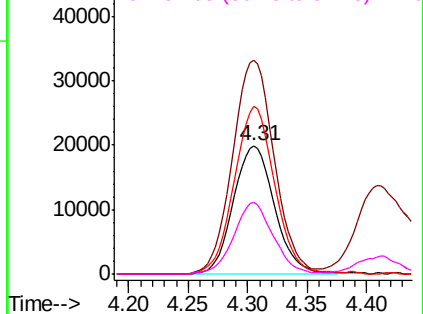
#23

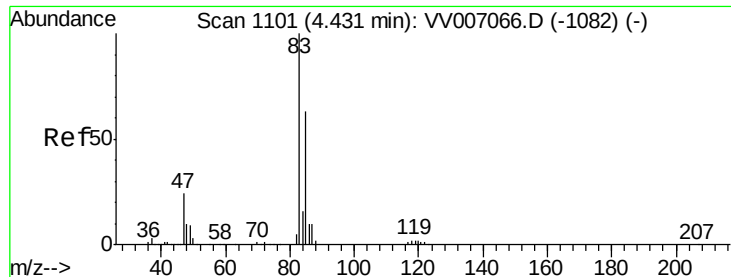
Bromochloromethane
 Concen: 5.389 ug/L
 RT: 4.31 min Scan# 1062
 Delta R.T. 0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

Tgt Ion: 128 Resp: 47525
 Ion Ratio Lower Upper
 128 100
 49 166.3 138.6 257.4
 130 130.6 90.0 167.2
 51 56.3 46.9 70.3



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

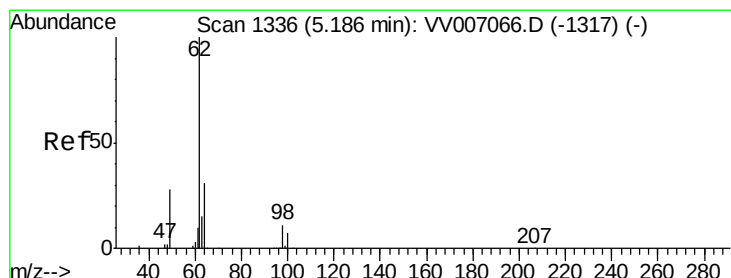
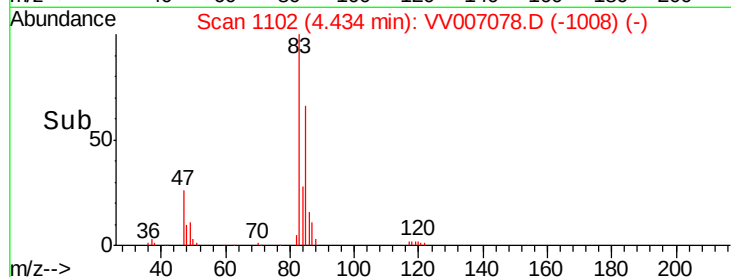
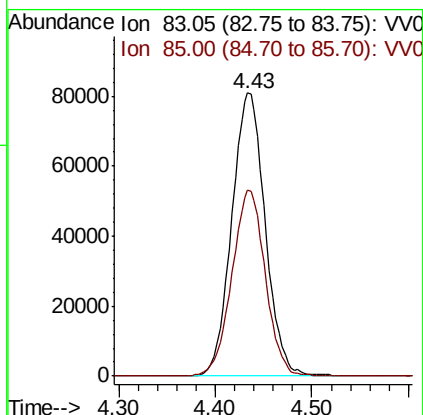
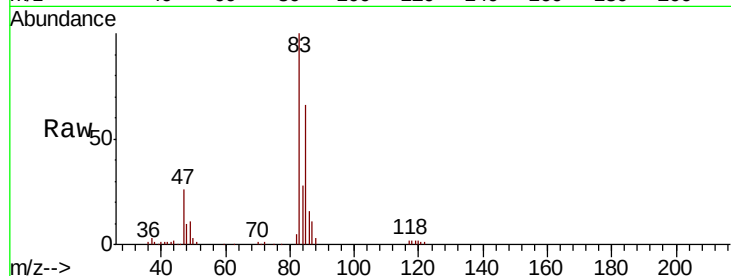




#25
Chloroform
Concen: 5.141 ug/L
RT: 4.43 min Scan# 1102
Delta R.T. 0.00 min
Lab File: VV007078.D
Acq: 20 Aug 2018 17:29

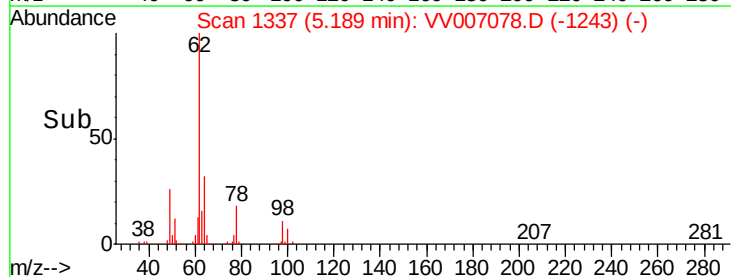
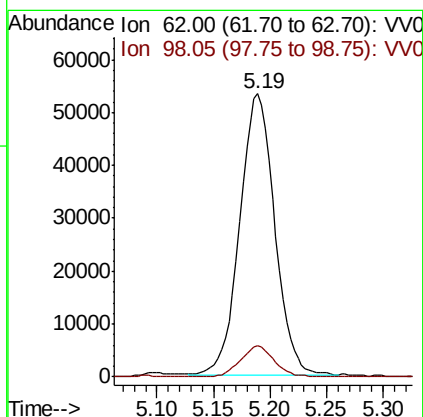
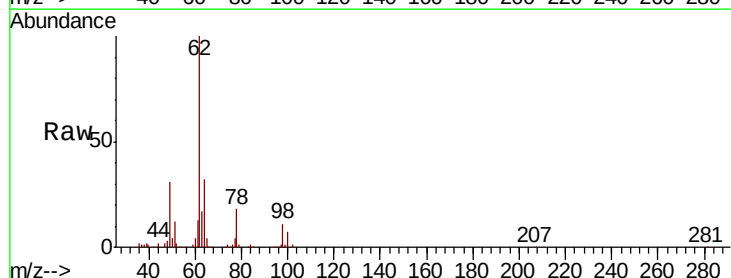
Instrument :
MSVOA_V
ClientSampleId :
VSTD00566

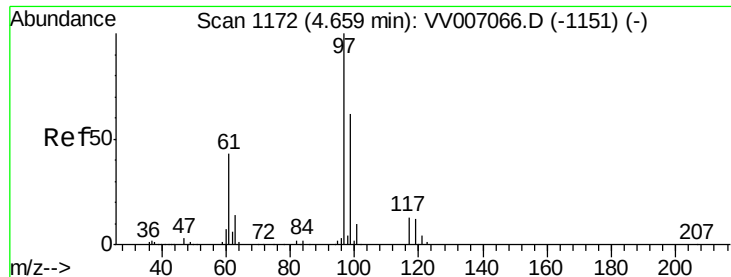
Tot Ion: 83 Resp: 193617
Ion Ratio Lower Upper
83 100
85 65.5 44.7 82.9



#27
1,2-Dichloroethane
Concen: 4.858 ug/L
RT: 5.19 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VV007078.D
Acq: 20 Aug 2018 17:29

Tgt Ion: 62 Resp: 114086
Ion Ratio Lower Upper
62 100
98 10.9 7.6 11.4

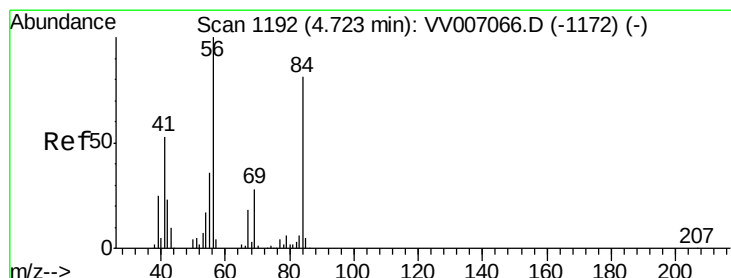
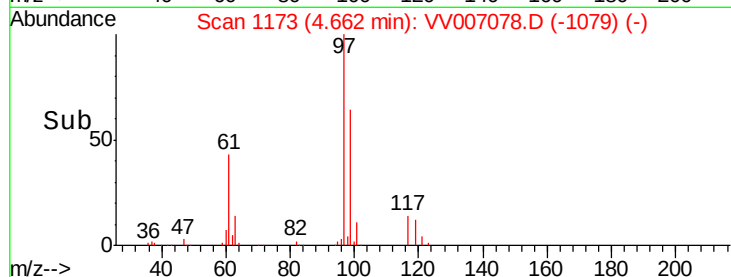
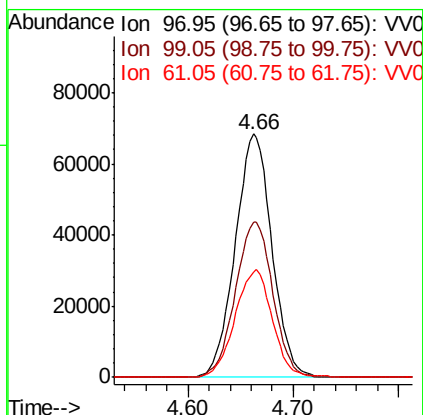
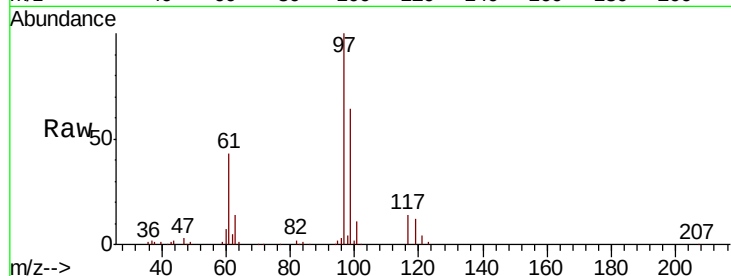




#29
 1,1,1-Trichloroethane
 Concen: 5.187 ug/L
 RT: 4.66 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

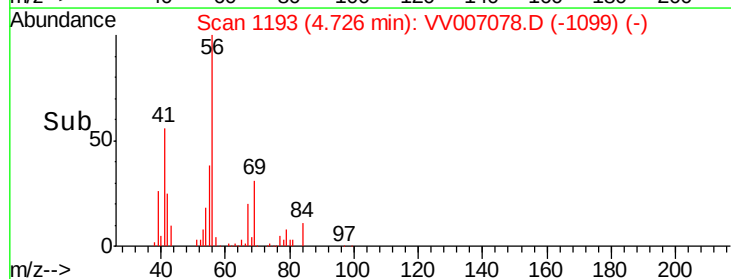
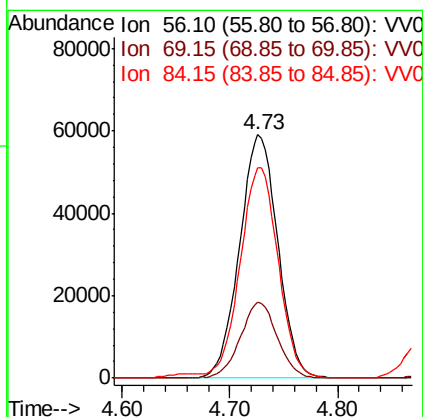
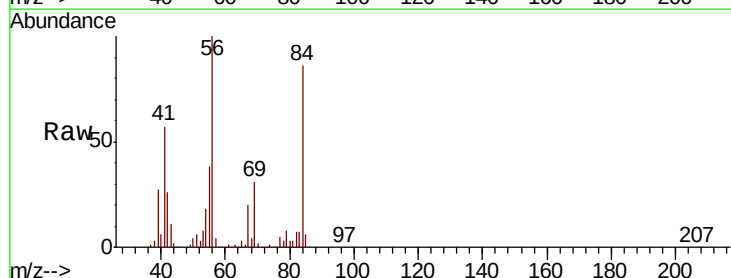
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00566

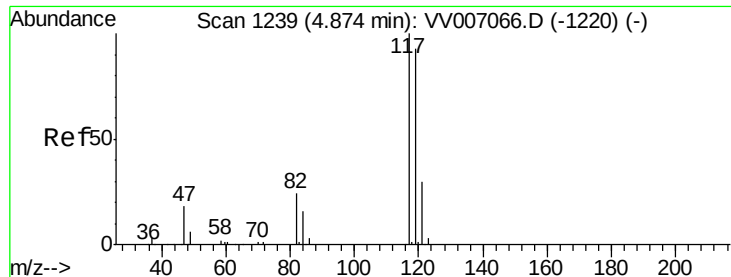
Tot Ion	97	Resp	165165
Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.6
61	45.2	36.6	54.8



#30
 Cyclohexane
 Concen: 4.387 ug/L
 RT: 4.73 min Scan# 1193
 Delta R.T. 0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

Tgt Ion	56	Resp	145394
Ion	Ratio	Lower	Upper
56	100		
69	30.3	23.8	35.6
84	86.2	67.9	101.9

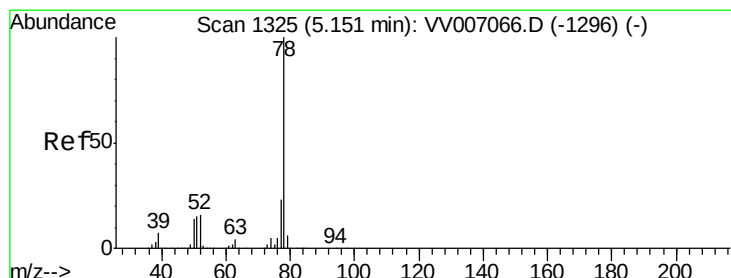
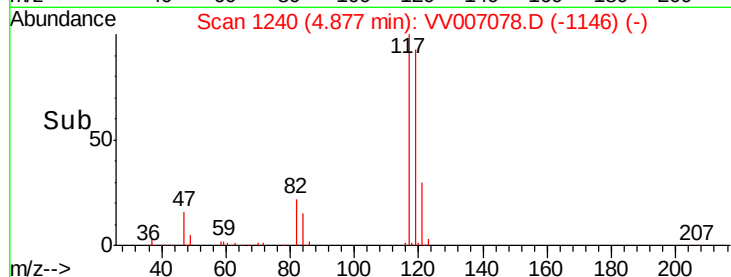
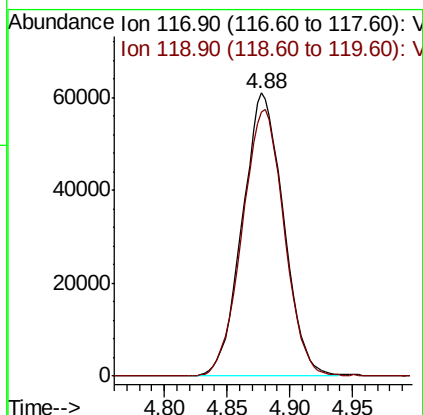
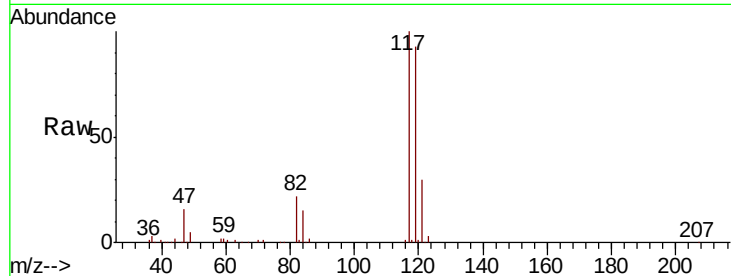




#31
Carbon tetrachloride
Concen: 5.221 ug/L
RT: 4.88 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VV007078.D
Acq: 20 Aug 2018 17:29

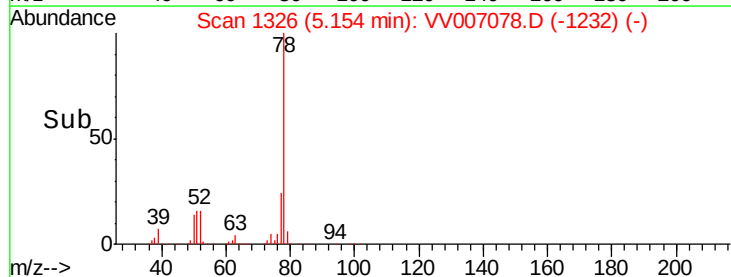
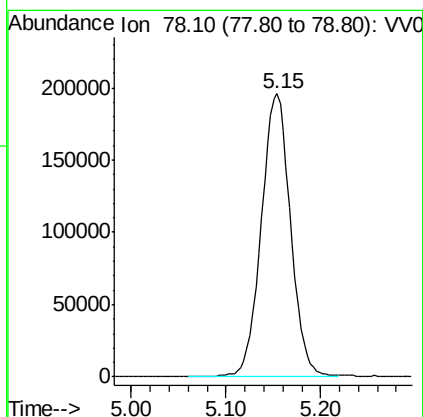
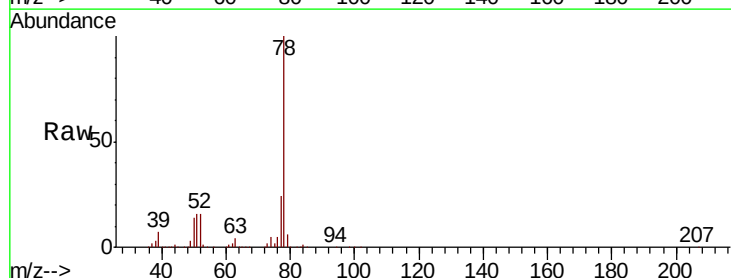
Instrument :
MSVOA_V
ClientSampleId :
VSTD00566

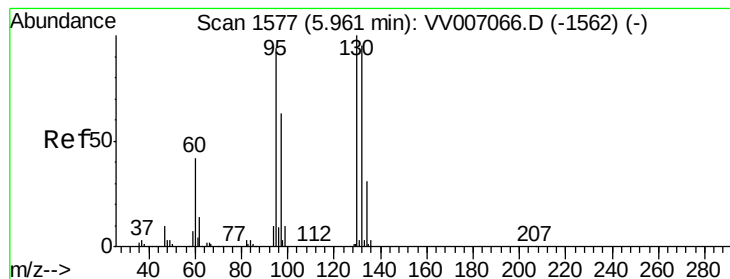
Tot Ion:117 Resp: 139426
Ion Ratio Lower Upper
117 100
119 95.9 76.2 114.4



#33
Benzene
Concen: 5.089 ug/L
RT: 5.15 min Scan# 1326
Delta R.T. 0.00 min
Lab File: VV007078.D
Acq: 20 Aug 2018 17:29

Tgt Ion: 78 Resp: 421010





#34

Trichloroethene

Concen: 5.032 ug/L

RT: 5.96 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

Tot Ion: 95 Resp: 99823

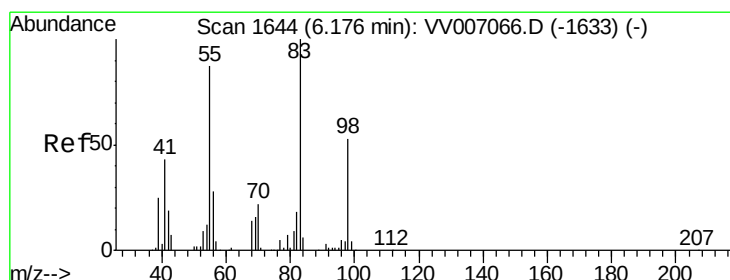
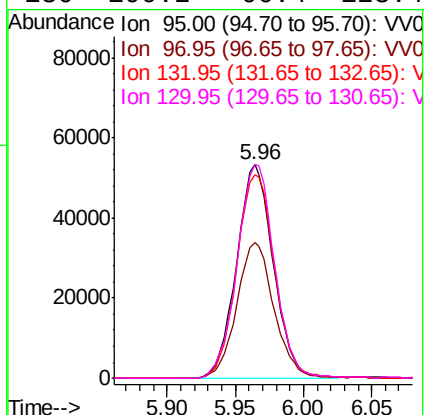
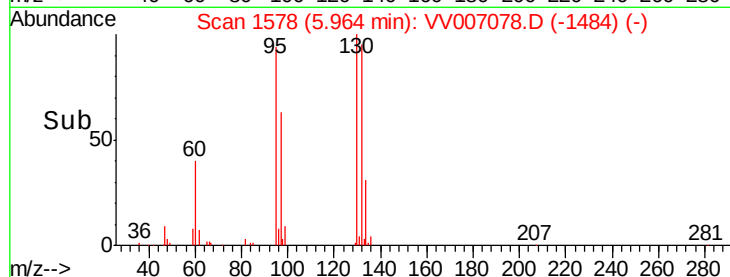
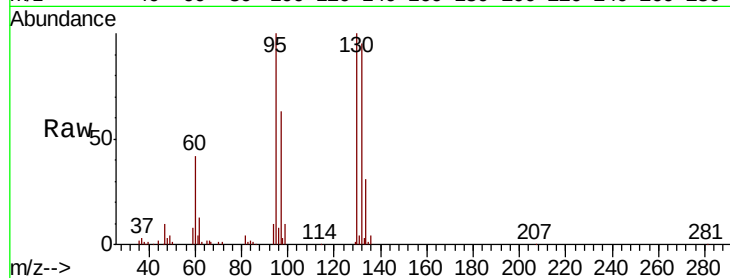
Ion Ratio Lower Upper

95 100

97 63.5 44.8 83.2

132 95.6 65.5 121.6

130 100.2 66.4 123.4



#35

Methylcyclohexane

Concen: 4.631 ug/L

RT: 6.18 min Scan# 1645

Delta R.T. 0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

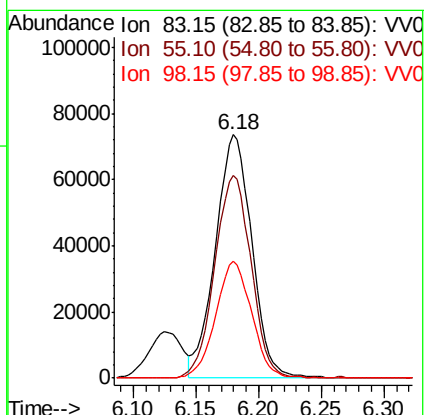
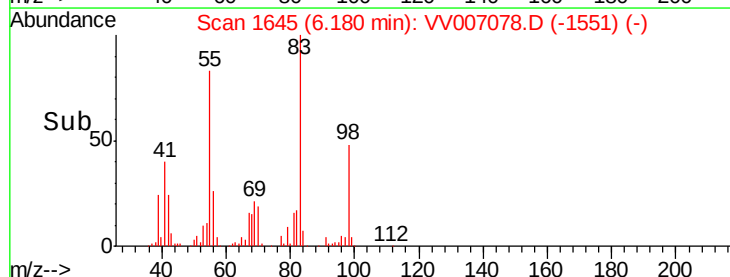
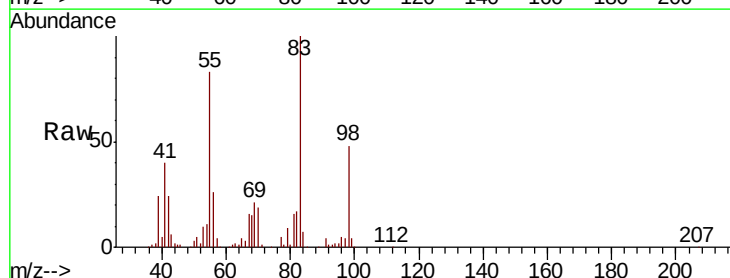
Tgt Ion: 83 Resp: 147482

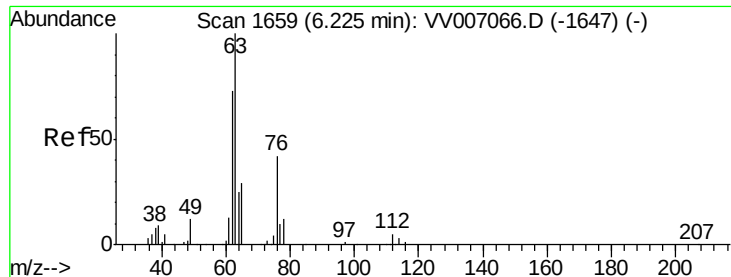
Ion Ratio Lower Upper

83 100

55 83.7 68.1 102.1

98 47.7 37.9 56.9

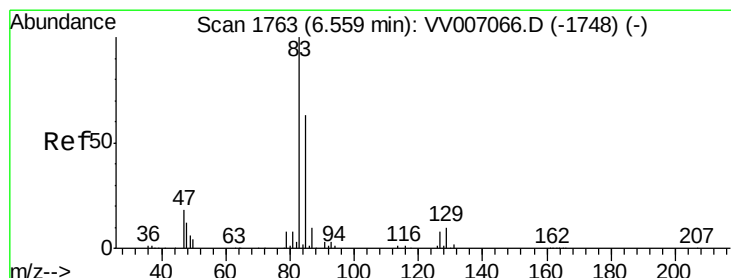
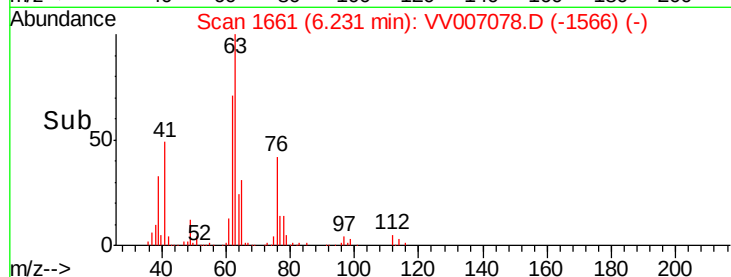
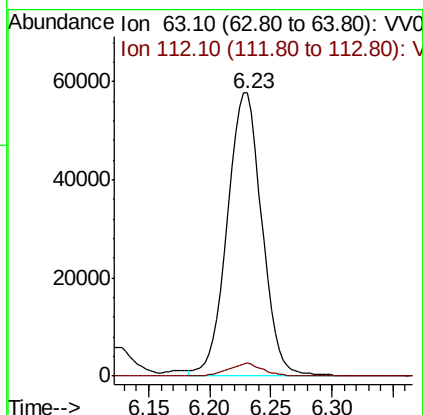
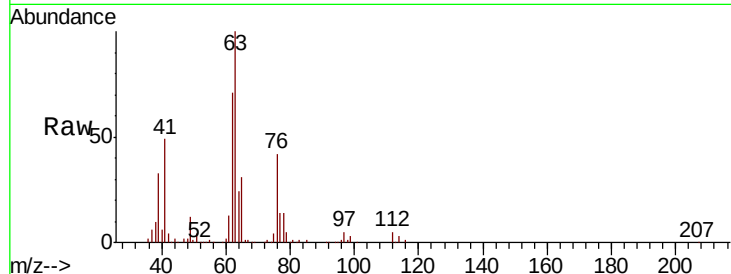




#37
 1,2-Dichloropropane
 Concen: 5.000 ug/L
 RT: 6.23 min Scan# 1661
 Delta R.T. 0.01 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

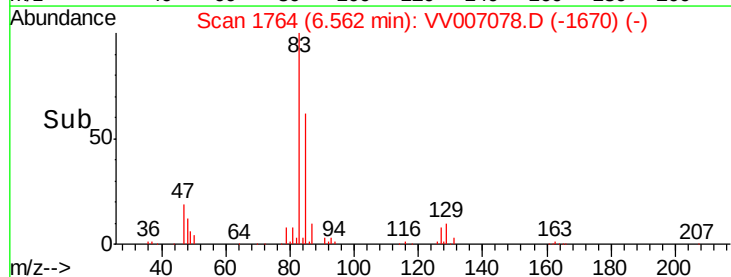
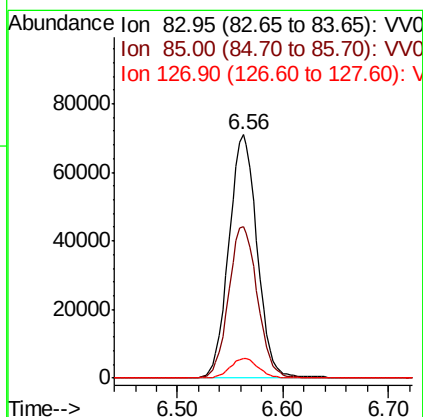
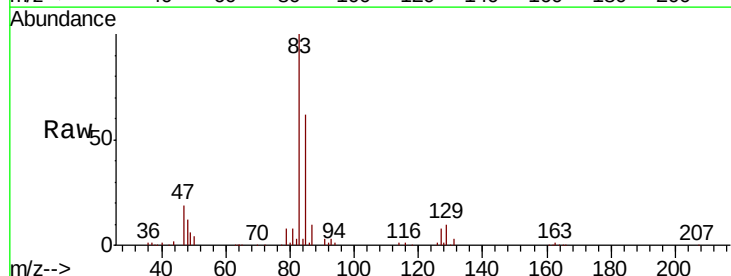
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00566

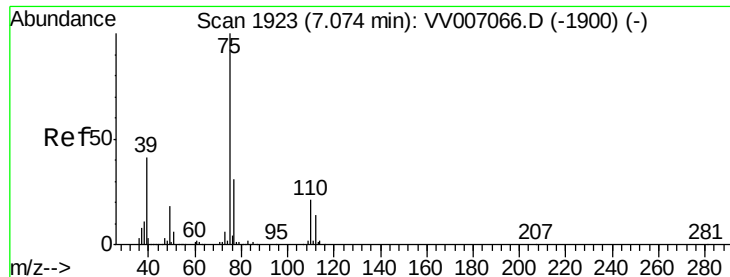
Tot Ion: 63 Resp: 113227
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.5 5.3



#38
 Bromodichloromethane
 Concen: 5.113 ug/L
 RT: 6.56 min Scan# 1764
 Delta R.T. 0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

Tgt Ion: 83 Resp: 131568
 Ion Ratio Lower Upper
 83 100
 85 62.1 43.8 81.4
 127 8.3 6.6 10.0

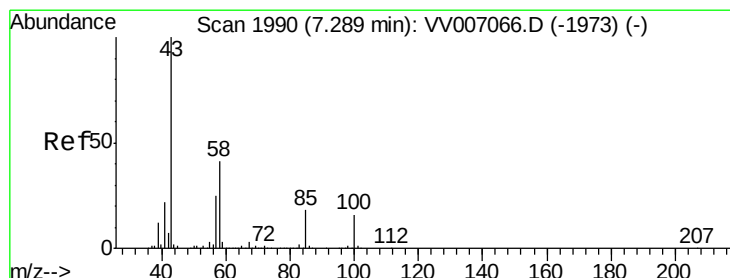
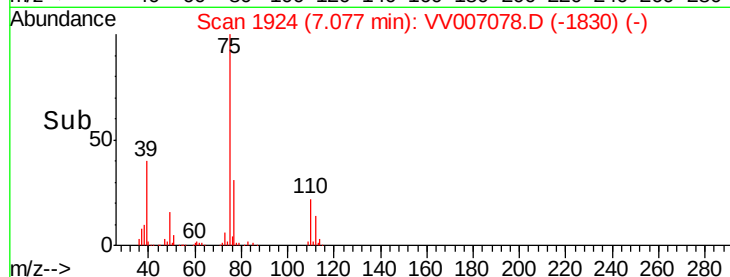
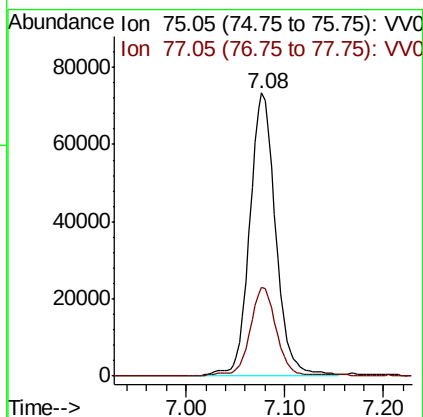
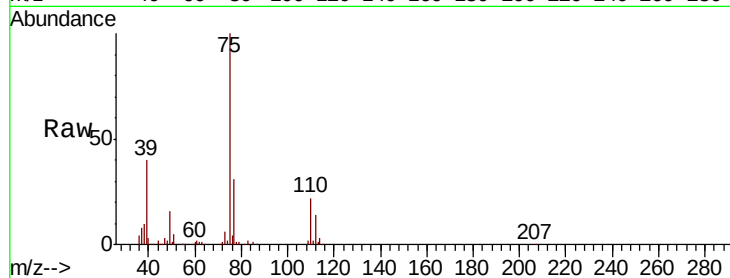




#39
 cis-1,3-Dichloropropene
 Concen: 4.877 ug/L
 RT: 7.08 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

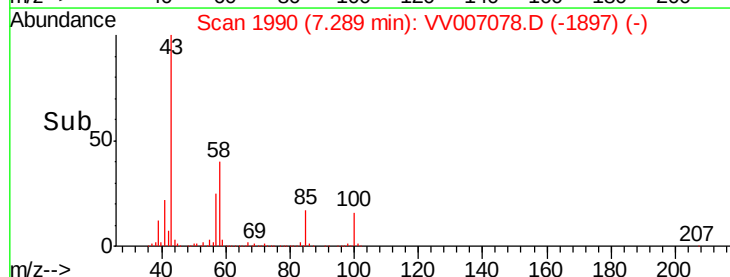
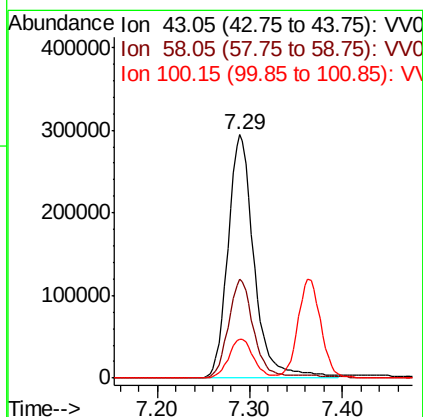
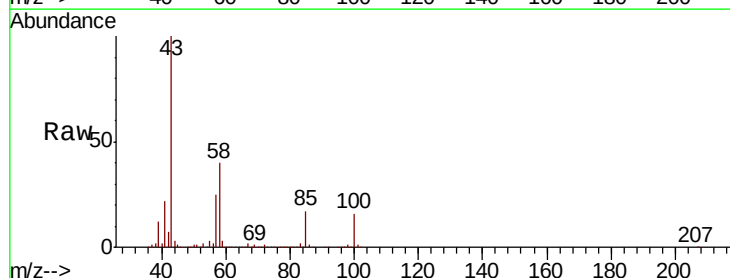
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00566

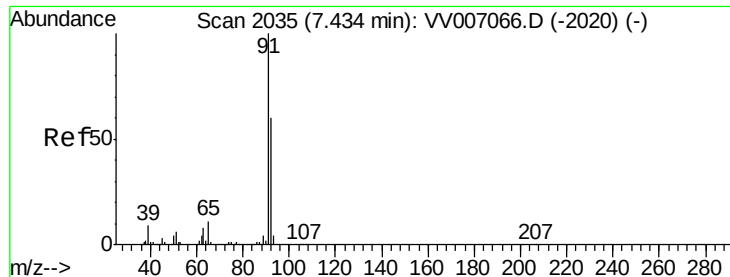
Tot Ion: 75 Resp: 133430
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.0 40.8



#40
 4-Methyl-2-pentanone
 Concen: 47.107 ug/L
 RT: 7.29 min Scan# 1990
 Delta R.T. -0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

Tgt Ion: 43 Resp: 576267
 Ion Ratio Lower Upper
 43 100
 58 38.9 30.7 46.1
 100 15.2 11.2 16.8





#42

Toluene

Concen: 5.349 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

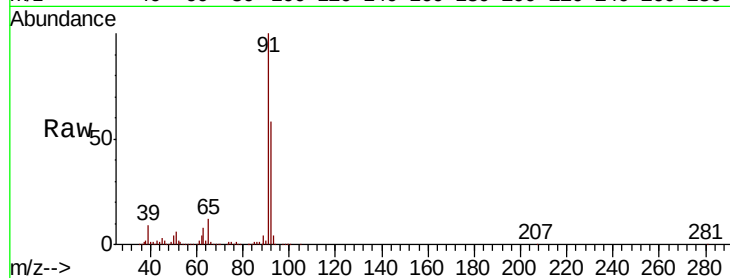
VSTD00566

Tot Ion: 91 Resp: 425253

Ion Ratio Lower Upper

91 100

92 57.7 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VV007066.D (-2020) (-)

Ion 92.15 (91.85 to 92.85): VV007066.D (-2020) (-)

7.44

250000

200000

150000

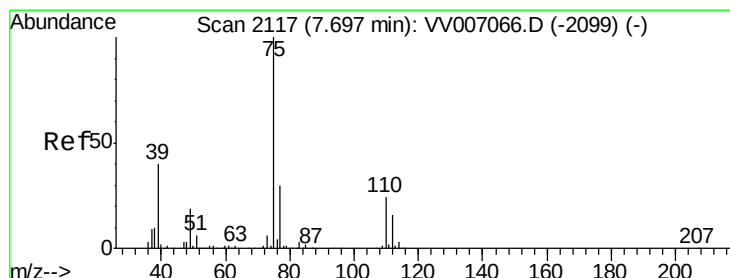
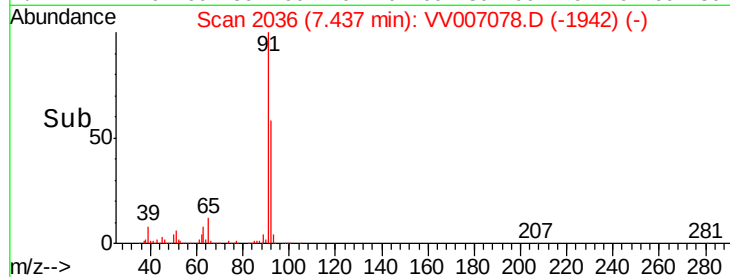
100000

50000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.980 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VV007078.D

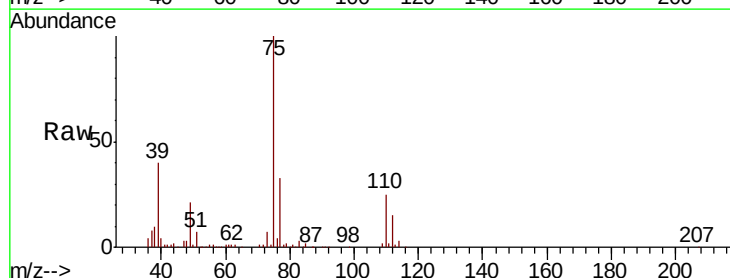
Acq: 20 Aug 2018 17:29

Tgt Ion: 75 Resp: 111821

Ion Ratio Lower Upper

75 100

77 32.7 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV007066.D (-2099) (-)

Ion 77.05 (76.75 to 77.75): VV007066.D (-2099) (-)

7.70

60000

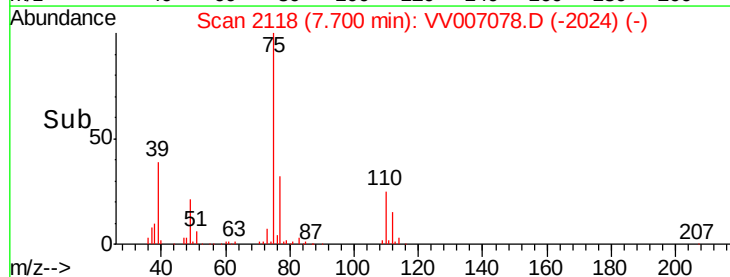
40000

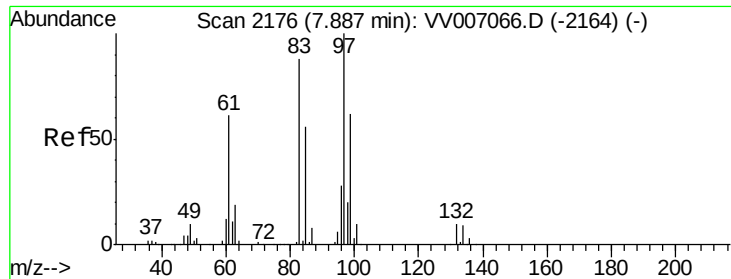
20000

0

7.60 7.70 7.80

Time-->





#45

1,1,2-Trichloroethane

Concen: 5.203 ug/L

RT: 7.89 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

Tot Ion: 97 Resp: 76645

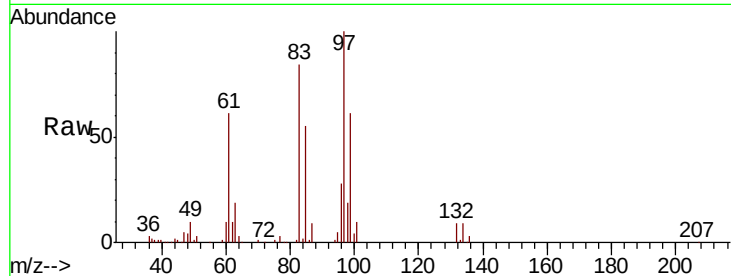
Ion Ratio Lower Upper

97 100

99 61.4 40.6 75.4

83 83.7 58.0 107.8

85 55.5 37.5 69.7

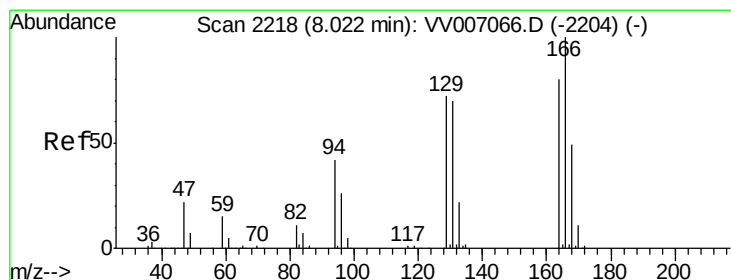
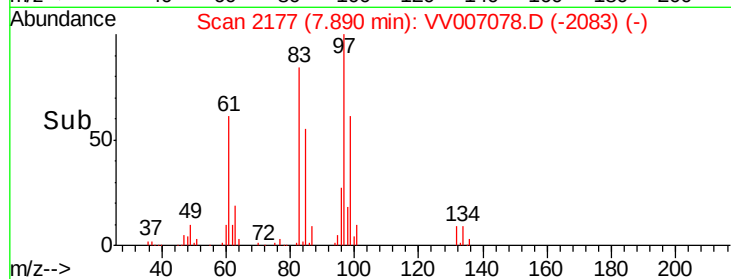
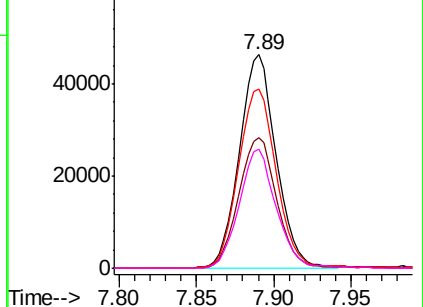


Abundance Ion 96.95 (96.65 to 97.65): VV0

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: 5.296 ug/L

RT: 8.02 min Scan# 2218

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Tgt Ion: 164 Resp: 85188

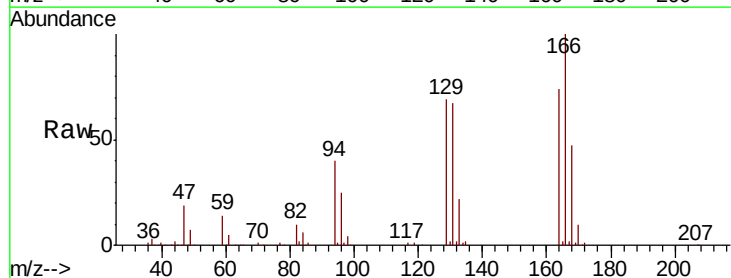
Ion Ratio Lower Upper

164 100

129 94.2 65.9 122.3

131 90.4 64.2 119.2

166 135.7 89.4 166.0

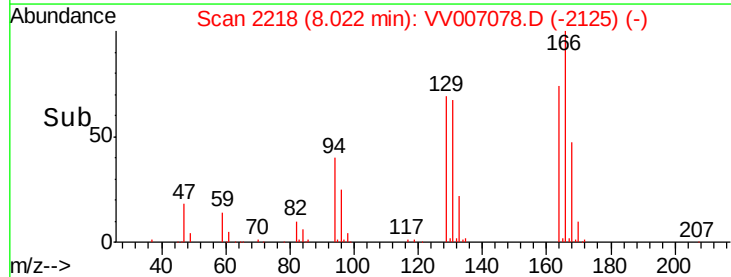
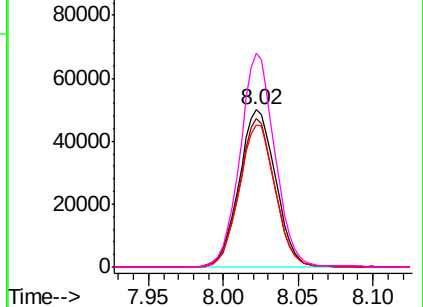


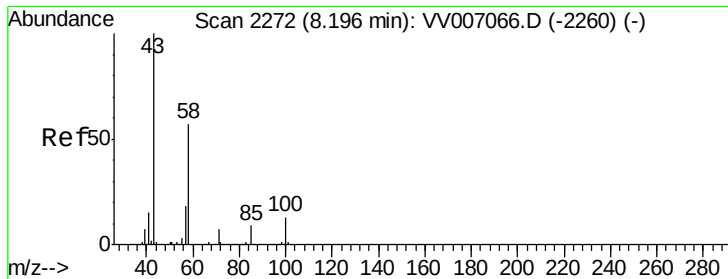
Abundance Ion 163.90 (163.60 to 164.60): V

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

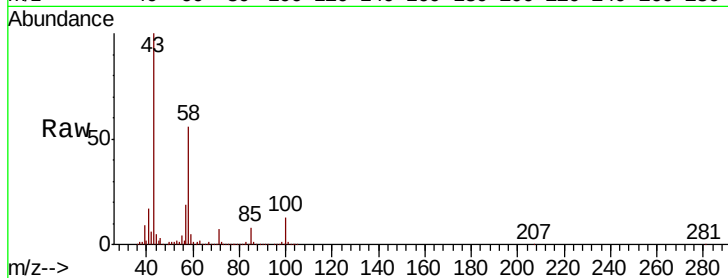




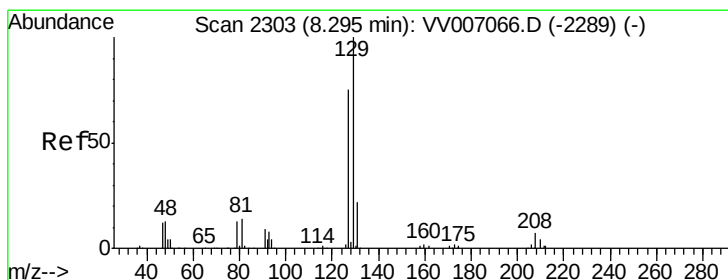
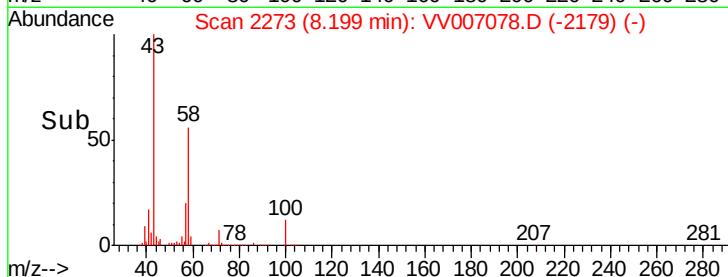
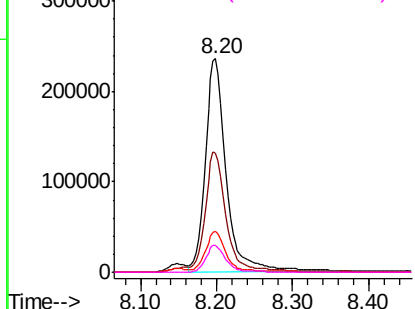
#48
2-Hexanone
Concen: 51.956 ug/L
RT: 8.20 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV007078.D
Acq: 20 Aug 2018 17:29

Instrument :
MSVOA_V
ClientSampleId :
VSTD00566

Tot Ion: 43 Resp: 448265
Ion Ratio Lower Upper
43 100
58 59.5 44.2 66.2
57 18.4 14.8 22.2
100 11.8 8.8 13.2

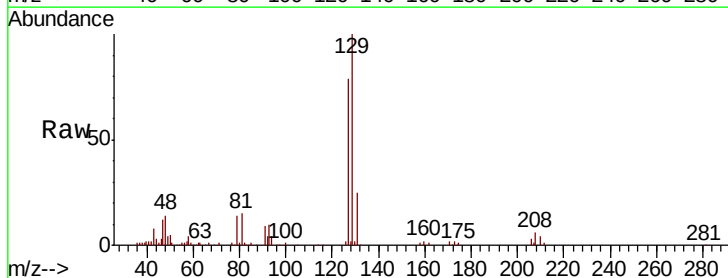


Abundance Ion 43.05 (42.75 to 43.75): VV007066.D (-2260) (-)
Ion 58.05 (57.75 to 58.75): VV007066.D (-2260) (-)
Ion 57.20 (56.90 to 57.90): VV007066.D (-2260) (-)
Ion 100.15 (99.85 to 100.85): VV007066.D (-2260) (-)

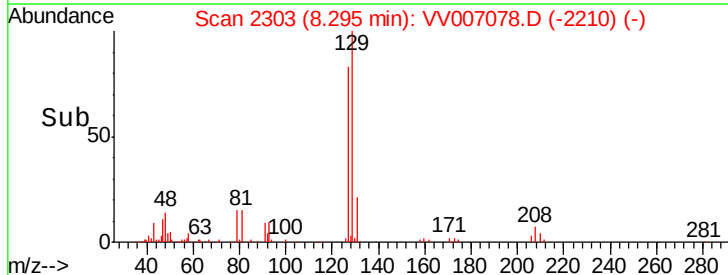
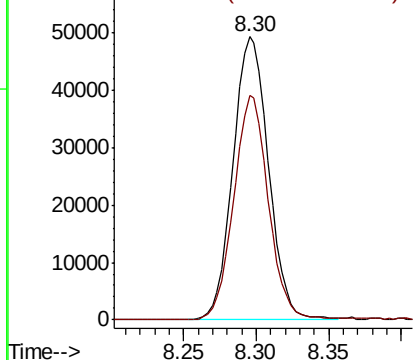


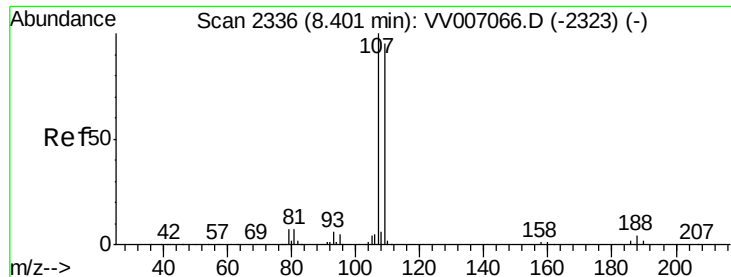
#49
Dibromochloromethane
Concen: 5.437 ug/L
RT: 8.30 min Scan# 2303
Delta R.T. -0.00 min
Lab File: VV007078.D
Acq: 20 Aug 2018 17:29

Tgt Ion: 129 Resp: 84030
Ion Ratio Lower Upper
129 100
127 79.3 53.3 98.9



Abundance Ion 128.95 (128.65 to 129.65): VV007066.D (-2289) (-)
Ion 126.90 (126.60 to 127.60): VV007066.D (-2289) (-)





#50

1,2-Dibromoethane

Concen: 5.256 ug/L

RT: 8.40 min Scan# 2336

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

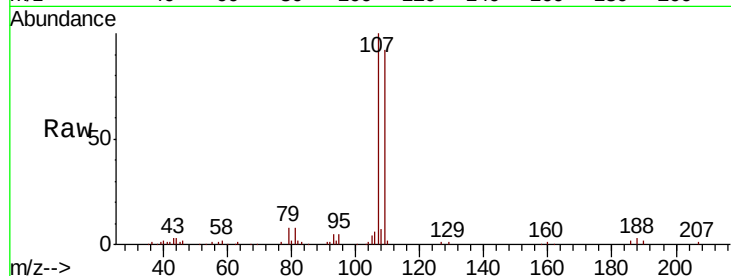
Tot Ion:107 Resp: 65415

Ion Ratio Lower Upper

107 100

109 92.1 64.1 119.1

188 3.3 4.0 6.0#

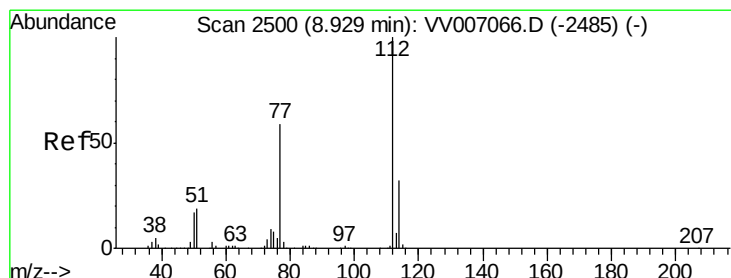
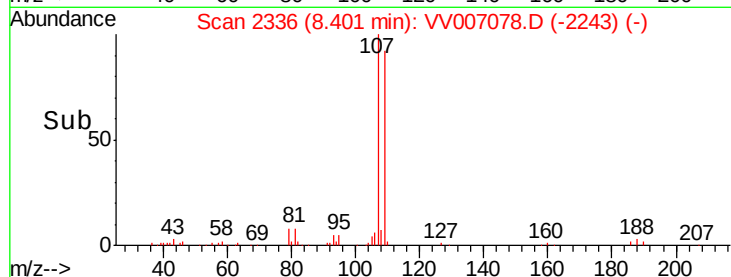
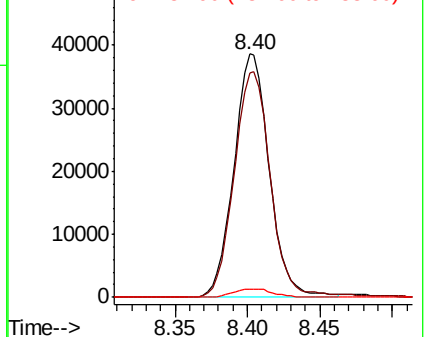


Abundance

Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 5.194 ug/L

RT: 8.93 min Scan# 2501

Delta R.T. 0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

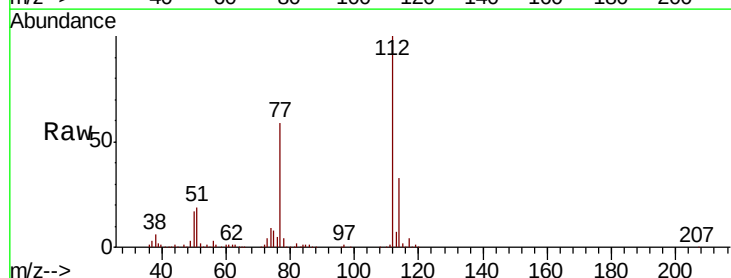
Tgt Ion:112 Resp: 263217

Ion Ratio Lower Upper

112 100

114 33.3 21.8 40.6

77 58.9 48.0 72.0

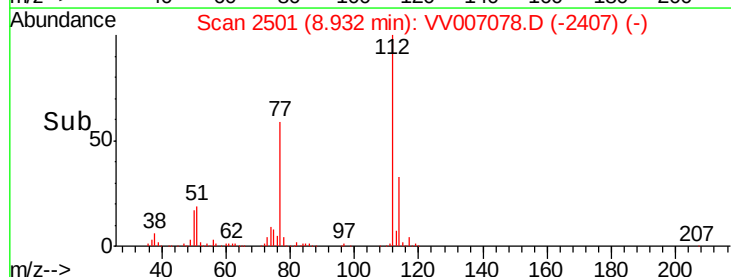
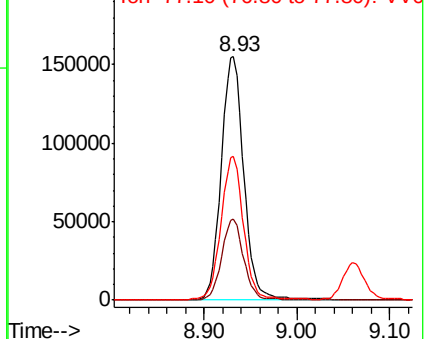


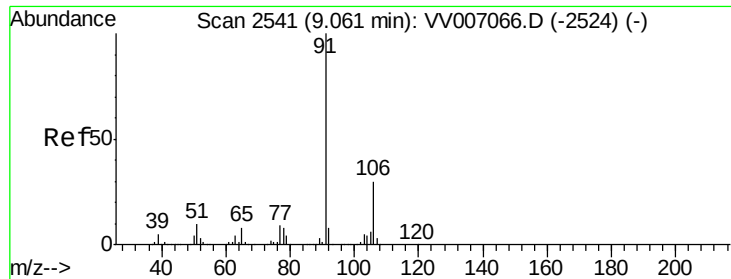
Abundance

Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 4.988 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

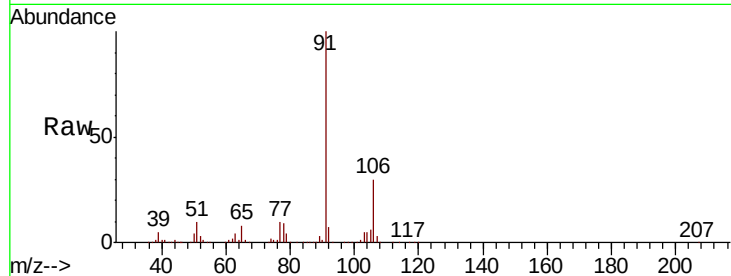
VSTD00566

Tot Ion: 91 Resp: 396011

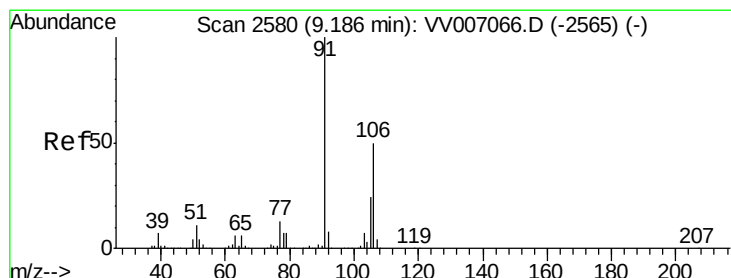
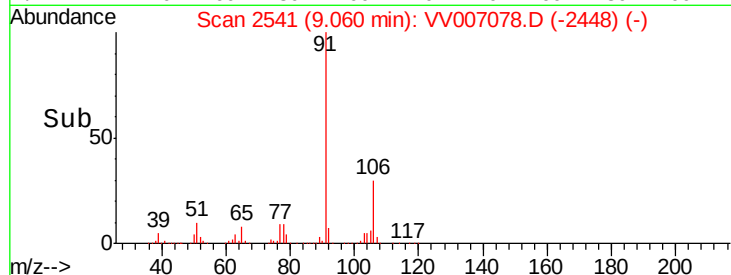
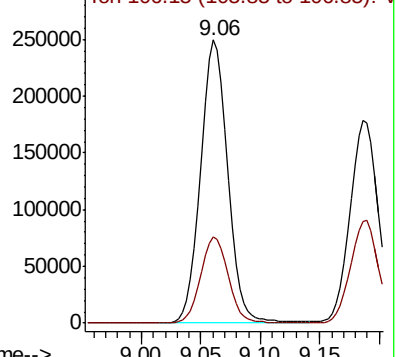
Ion Ratio Lower Upper

91 100

106 30.4 21.3 39.5



Abundance Ion 91.15 (90.85 to 91.85): VV007066.D (-2524) (-)



#53

m,p-xylene

Concen: 5.038 ug/L

RT: 9.19 min Scan# 2581

Delta R.T. 0.00 min

Lab File: VV007078.D

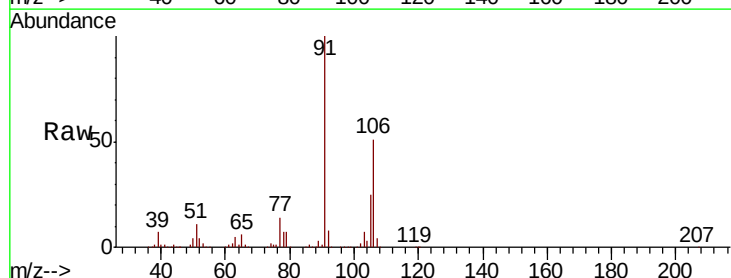
Acq: 20 Aug 2018 17:29

Tgt Ion: 106 Resp: 149087

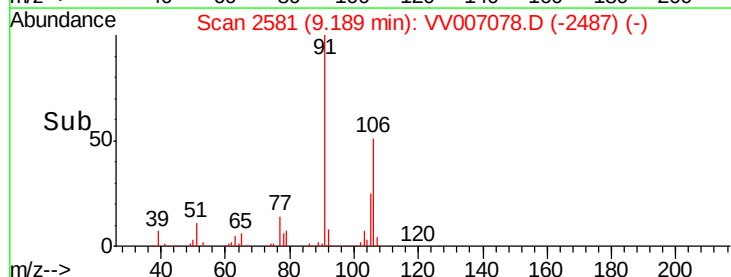
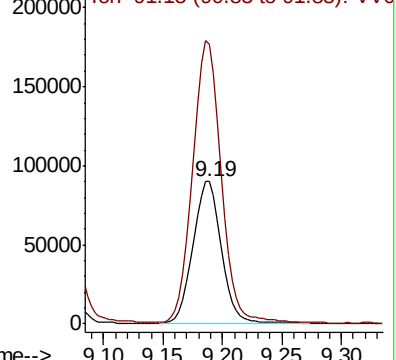
Ion Ratio Lower Upper

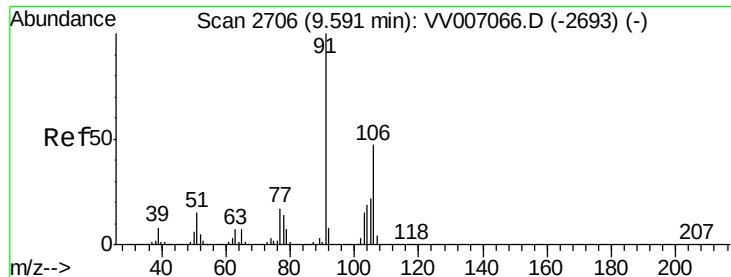
106 100

91 196.3 141.6 263.0



Abundance Ion 106.15 (105.85 to 106.85): VV007066.D (-2565) (-)





#54

o-xylene

Concen: 5.069 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. 0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

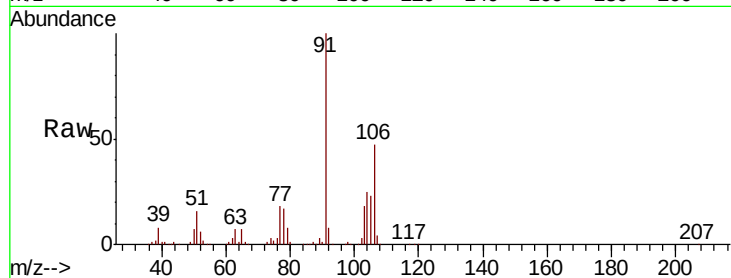
VSTD00566

Tot Ion:106 Resp: 142144

Ion Ratio Lower Upper

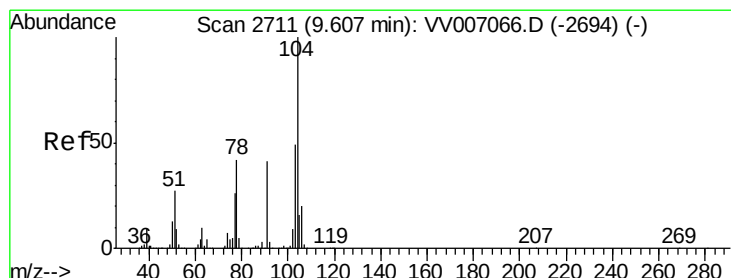
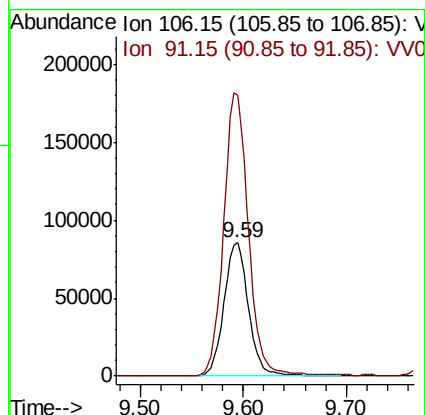
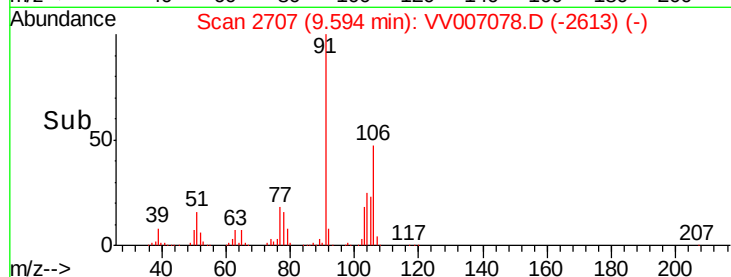
106 100

91 211.1 149.8 278.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.172 ug/L

RT: 9.61 min Scan# 2712

Delta R.T. 0.00 min

Lab File: VV007078.D

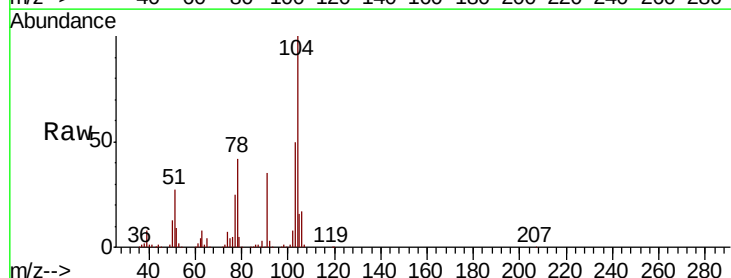
Acq: 20 Aug 2018 17:29

Tgt Ion:104 Resp: 244475

Ion Ratio Lower Upper

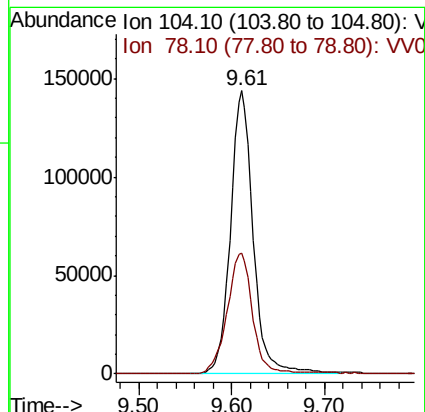
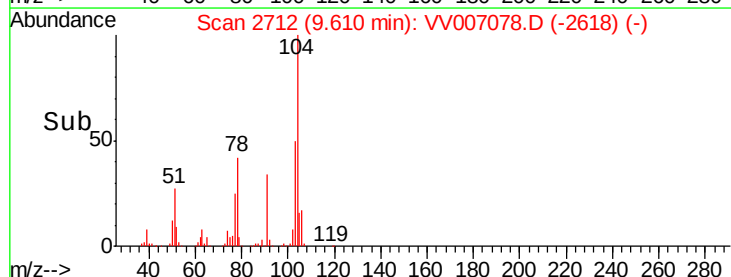
104 100

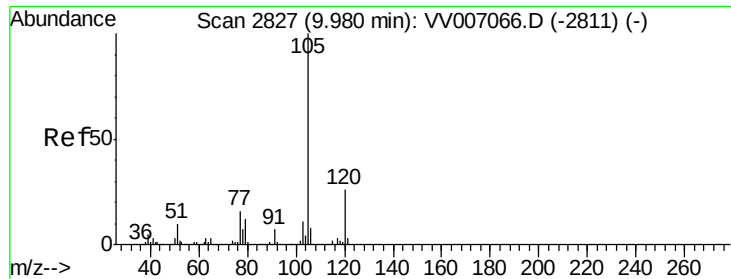
78 42.5 30.4 56.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.076 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

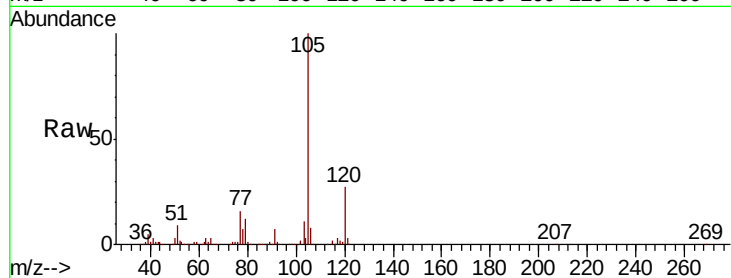
Tot Ion:105 Resp: 373461

Ion Ratio Lower Upper

105 100

120 27.0 21.1 31.7

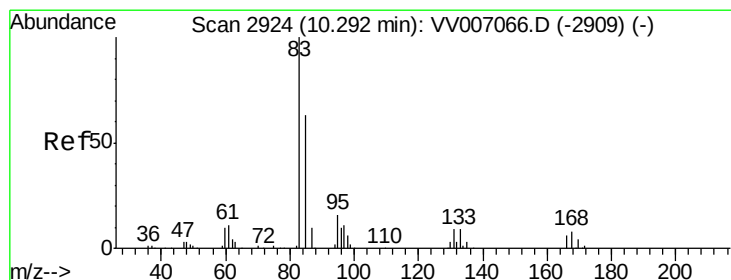
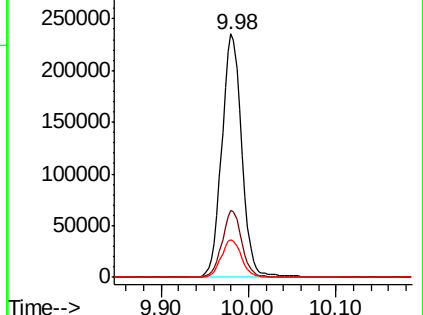
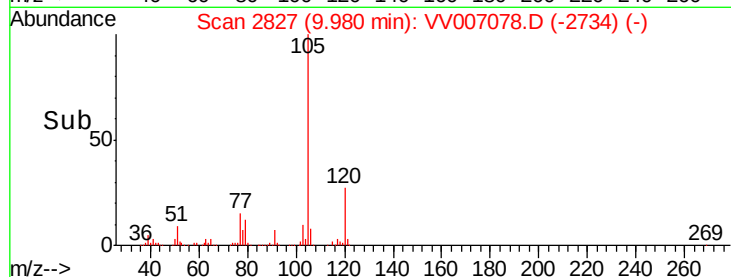
77 15.5 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 5.080 ug/L

RT: 10.29 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

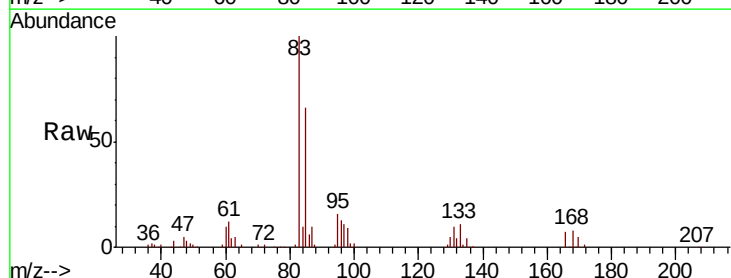
Tgt Ion: 83 Resp: 90959

Ion Ratio Lower Upper

83 100

85 65.8 43.0 79.8

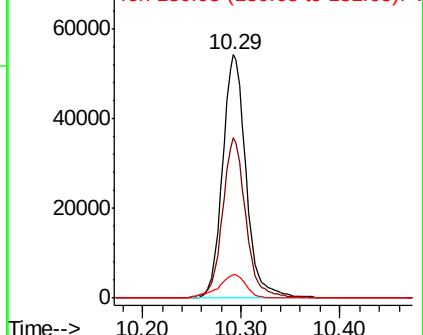
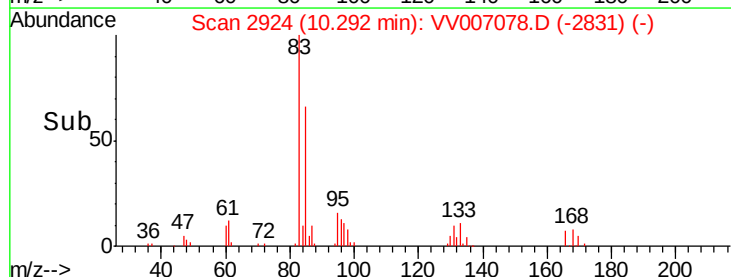
131 9.9 7.4 11.2

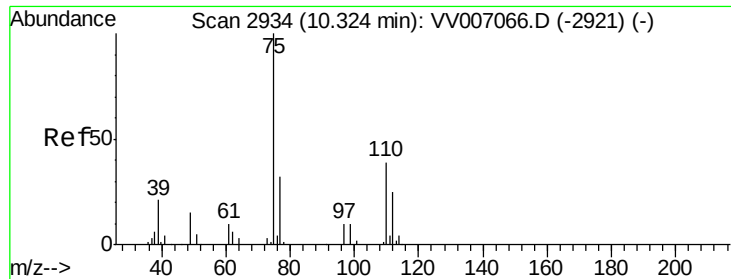


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.219 ug/L

RT: 10.33 min Scan# 2935

Delta R.T. 0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

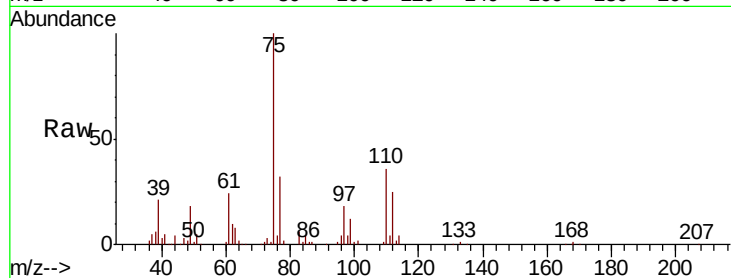
VSTD00566

Tot Ion: 75 Resp: 66162

Ion Ratio Lower Upper

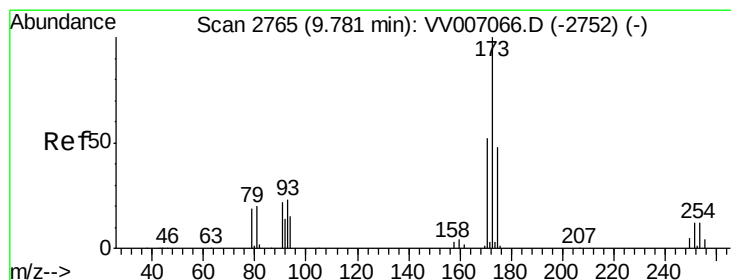
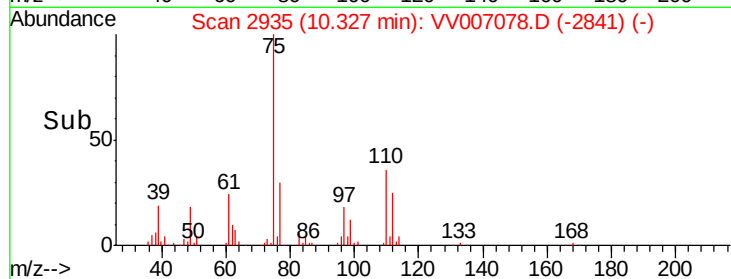
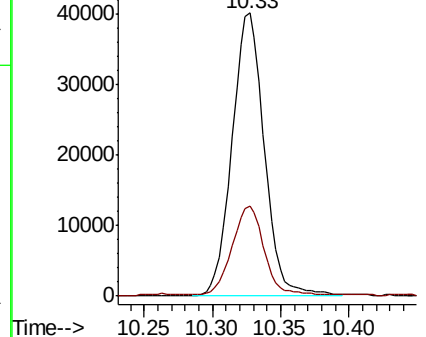
75 100

77 30.9 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV007066.D (-2921) (-)

Ion 77.00 (76.70 to 77.70): VV007066.D (-2921) (-)



#61

Bromoform

Concen: 5.585 ug/L

RT: 9.78 min Scan# 2765

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

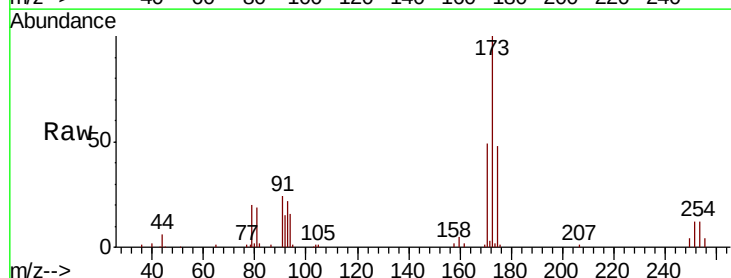
Tgt Ion: 173 Resp: 46117

Ion Ratio Lower Upper

173 100

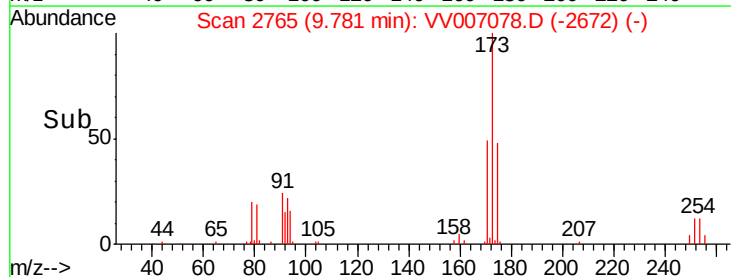
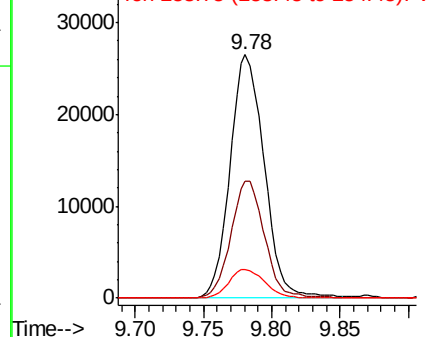
175 47.5 39.3 58.9

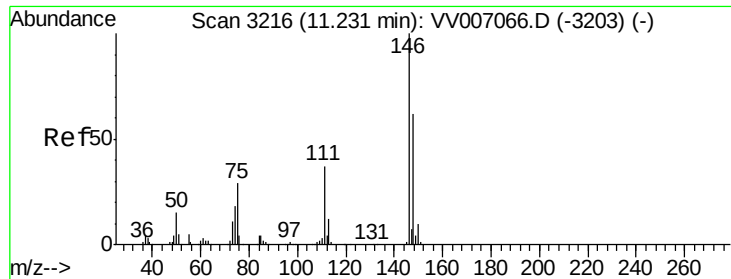
254 12.3 8.3 12.5



Abundance Ion 172.90 (172.60 to 173.60): VV007066.D (-2752) (-)

Ion 174.90 (174.60 to 175.60): VV007066.D (-2752) (-)





#62

1,3-Dichlorobenzene

Concen: 5.148 ug/L

RT: 11.23 min Scan# 3216

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

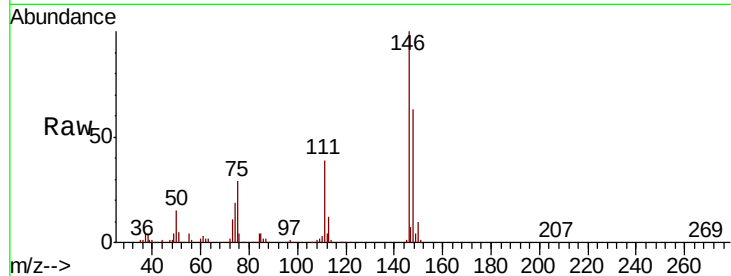
Tot Ion:146 Resp: 181623

Ion Ratio Lower Upper

146 100

111 38.8 28.1 52.3

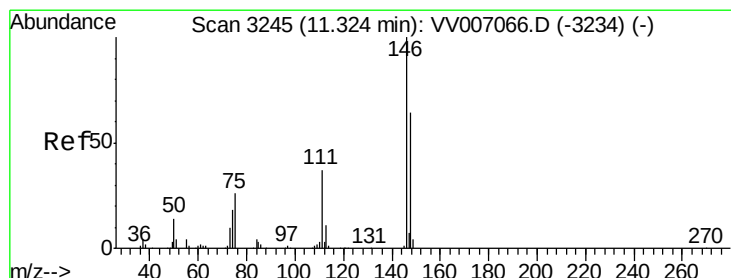
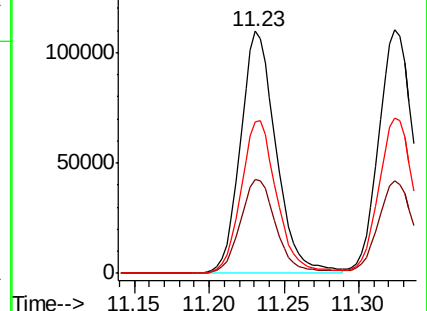
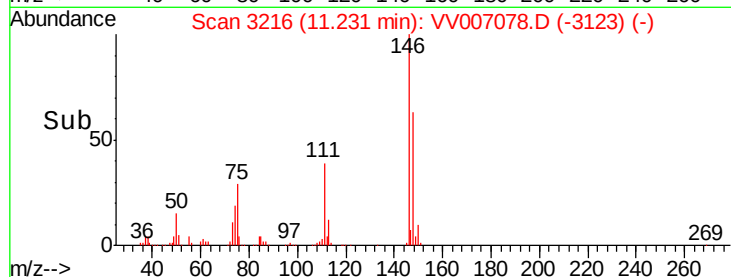
148 62.7 44.2 82.2



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: 5.195 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

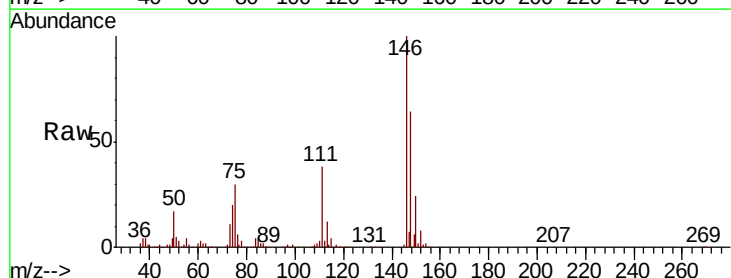
Tgt Ion:146 Resp: 187840

Ion Ratio Lower Upper

146 100

111 37.8 26.6 49.4

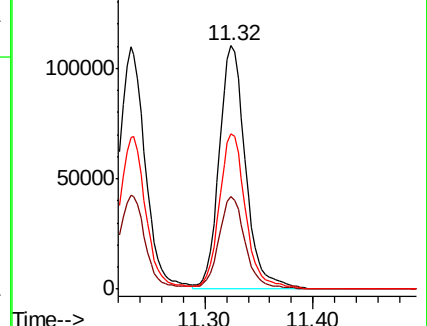
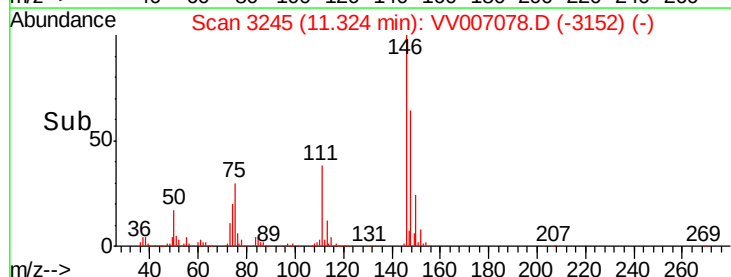
148 63.8 46.4 86.2

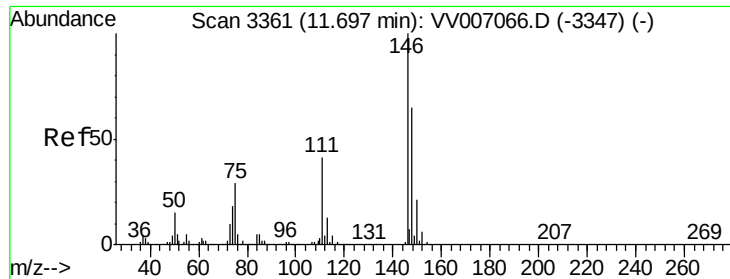


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

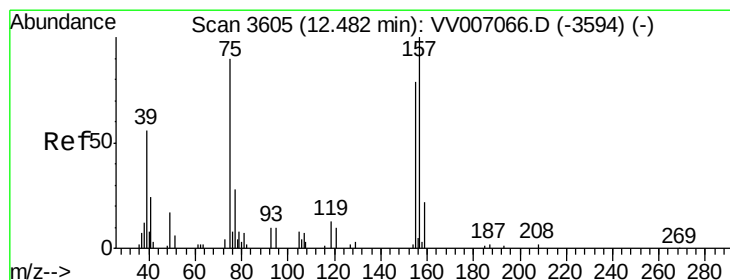
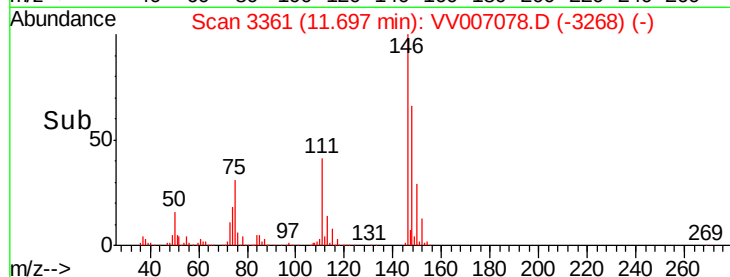
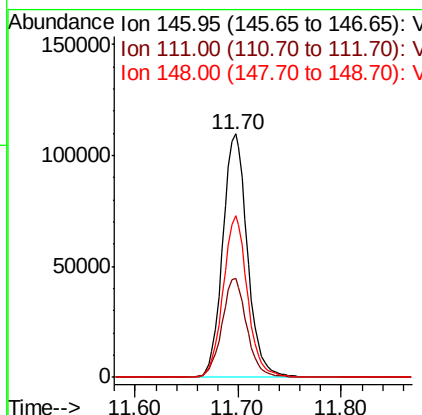
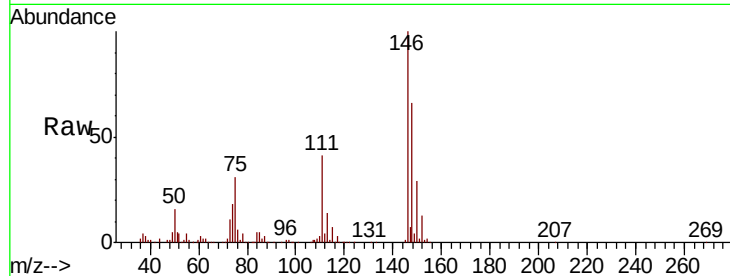




#65
 1,2-Dichlorobenzene
 Concen: 5.270 ug/L
 RT: 11.70 min Scan# 3361
 Delta R.T. -0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

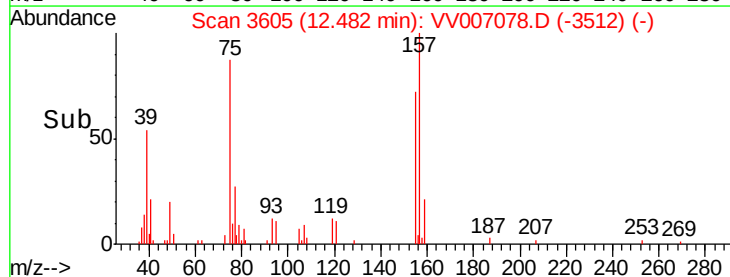
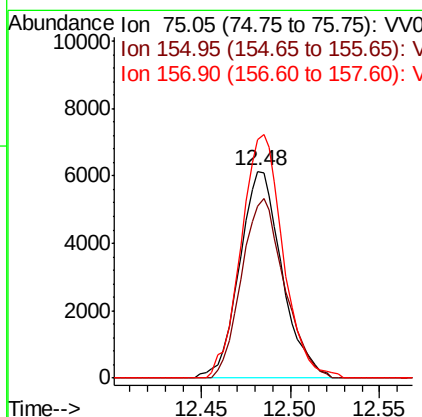
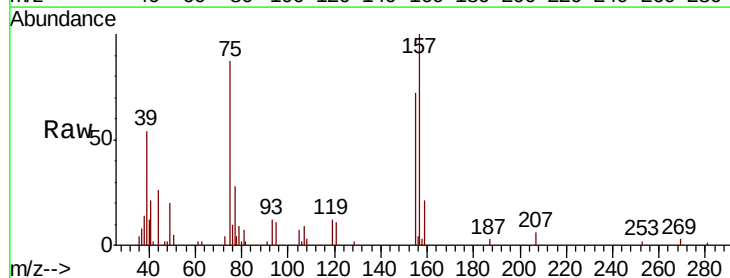
Instrument :
 MSVOA_V
 ClientSampleID :
 VSTD00566

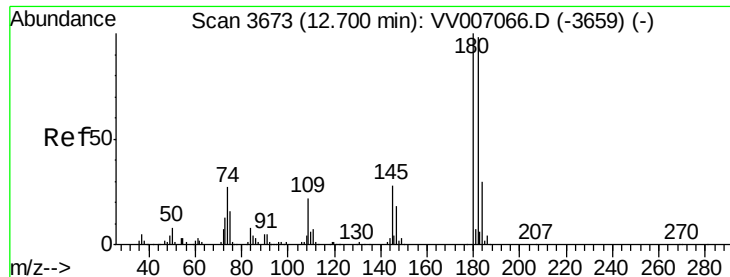
Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	33.0	49.6
148	66.2	50.6	75.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.136 ug/L
 RT: 12.48 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

Tgt Ion	Ratio	Lower	Upper
75	100		
155	83.2	62.6	94.0
157	115.2	77.0	115.6

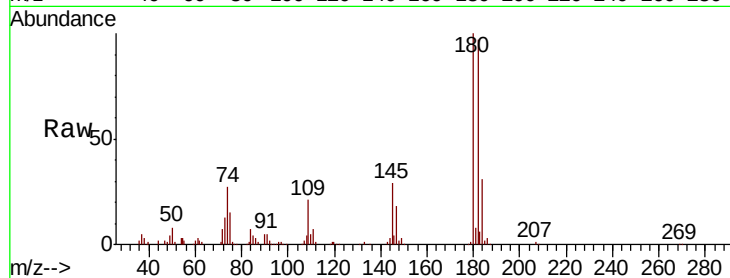




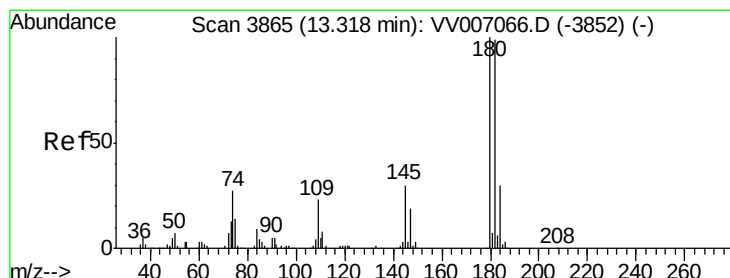
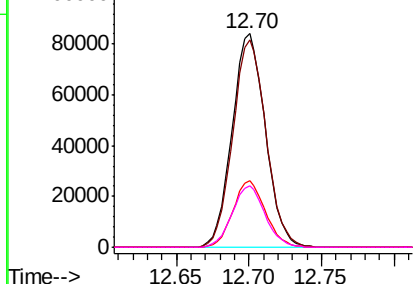
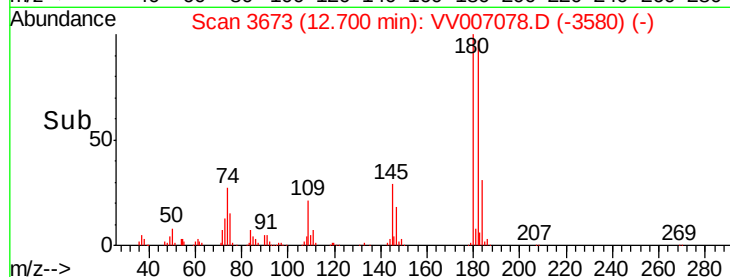
#67
 1,3,5-Trichlorobenzene
 Concen: 5.031 ug/L
 RT: 12.70 min Scan# 3673
 Delta R.T. -0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00566

Tot Ion:180	Resp:	134311
Ion Ratio	Lower	Upper
180	100	
182	96.8	75.1 112.7
184	30.2	23.8 35.8
145	28.4	21.9 32.9

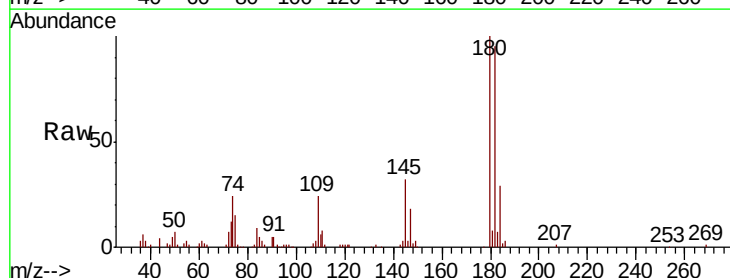


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

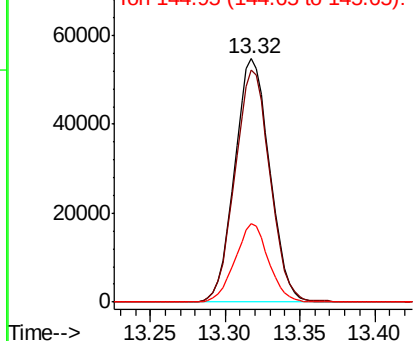
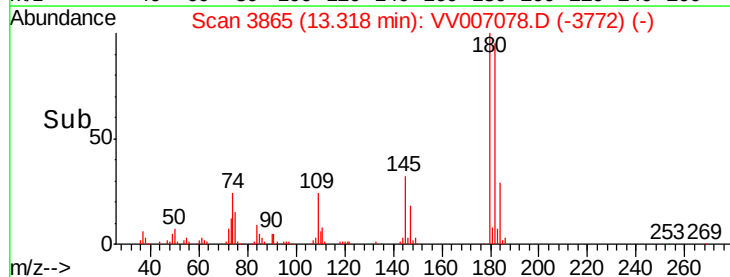


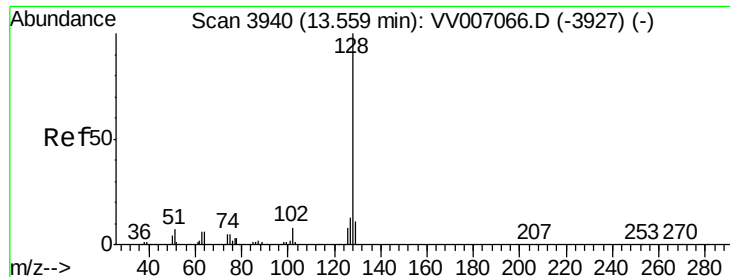
#68
 1,2,4-trichlorobenzene
 Concen: 4.551 ug/L
 RT: 13.32 min Scan# 3865
 Delta R.T. -0.00 min
 Lab File: VV007078.D
 Acq: 20 Aug 2018 17:29

Tgt Ion:180	Resp:	89170
Ion Ratio	Lower	Upper
180	100	
182	95.5	76.5 114.7
145	31.0	23.6 35.4



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





#69

Naphthalene

Concen: 3.709 ug/L

RT: 13.56 min Scan# 3941

Delta R.T. 0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

Instrument :

MSVOA_V

ClientSampleId :

VSTD00566

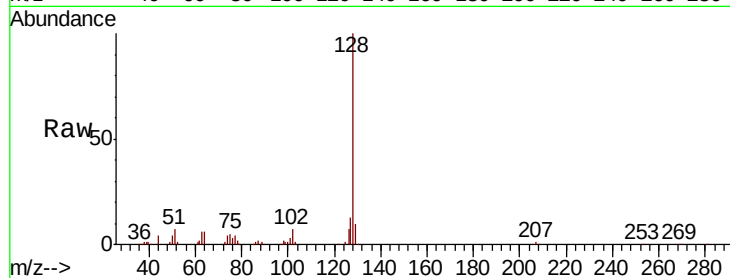
Tot Ion:128 Resp: 104381

Ion Ratio Lower Upper

128 100

129 10.6 8.5 12.7

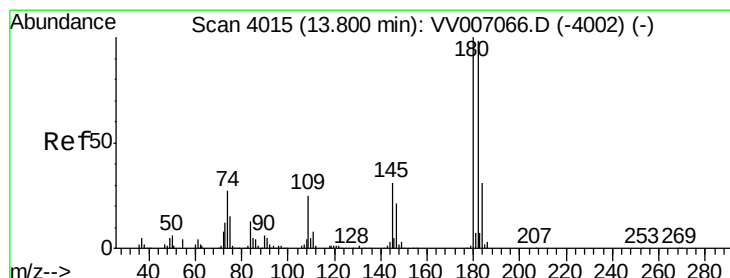
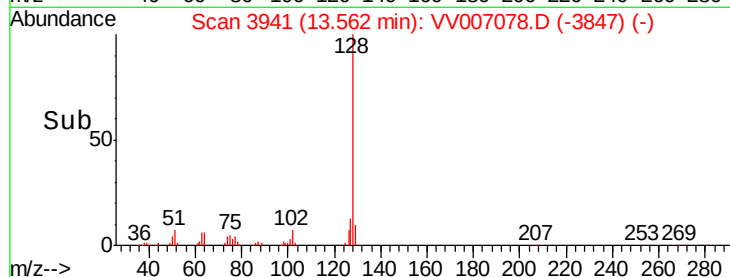
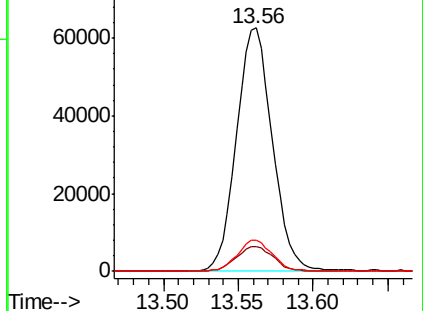
127 12.7 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.599 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. -0.00 min

Lab File: VV007078.D

Acq: 20 Aug 2018 17:29

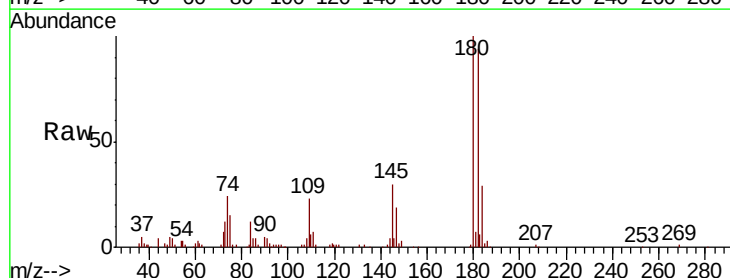
Tgt Ion:180 Resp: 86857

Ion Ratio Lower Upper

180 100

182 97.5 76.1 114.1

145 30.3 24.6 36.8



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

