

Data File : VV009078.D
Acq On : 20 Dec 2018 11:08
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00 G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02570

Quant Time: Dec 21 00:23:33 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Thu Dec 20 03:44:50 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	280005	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	246441	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	118058	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	62021	21.40	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	85.60%
7) Chloroethane-d5	1.58	69	58871	27.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	110.00%
10) 1,1-Dichloroethene-d2	2.13	63	161768	22.33	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	89.32%
20) 2-Butanone-d5	3.93	46	39151	37.11	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	74.22%
24) Chloroform-d	4.40	84	163381	24.27	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	97.08%
26) 1,2-Dichloroethane-d4	5.08	65	88202	24.01	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	96.04%
29) Benzene-d6	5.09	84	314781	22.87	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	91.48%
33) 1,2-Dichloropropane-d6	6.11	67	91314	23.70	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	94.80%
37) Toluene-d8	7.36	98	296793	23.30	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.20%
38) trans-1,3-Dichloropropene-	7.66	79	40743	24.07	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	96.28%
39) 2-Hexanone-d5	8.13	63	24921	35.30	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	70.60%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	69307	21.44	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	85.76%
61) 1,2-Dichlorobenzene-d4	11.67	152	103362	23.33	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.32%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	94992	20.696 ug/L	99
3) Chloromethane	1.25	50	71518	22.675 ug/L	98
5) Vinyl chloride	1.32	62	79790	22.661 ug/L	98
6) Bromomethane	1.53	94	45181	26.689 ug/L	98
8) Chloroethane	1.60	64	59621	30.233 ug/L	100
9) Trichlorofluoromethane	1.77	101	172028	28.524 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	98272	23.759 ug/L	97
12) 1,1-Dichloroethene	2.14	96	84844	23.506 ug/L	93
13) Acetone	2.19	43	63762	41.023 ug/L	99
14) Carbon disulfide	2.32	76	254652	21.971 ug/L	99
15) Methyl Acetate	2.46	43	35861	18.195 ug/L	98
16) Methylene chloride	2.53	84	98372	20.863 ug/L	96
17) Methyl tert-butyl Ether	2.80	73	196104	23.915 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	93454	23.961 ug/L	96
19) 1,1-Dichloroethane	3.23	63	155233	24.552 ug/L	99
21) 2-Butanone	4.02	43	59216	40.649 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	99757	24.530 ug/L	98

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Quant Title : VOC Analysis
QLast Update : Thu Dec 20 03:44:50 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	45770	23.879	ug/L	97
25) Chloroform	4.42	83	170294	25.096	ug/L	98
27) 1,2-Dichloroethane	5.18	62	111963	24.222	ug/L	100
30) Cyclohexane	4.72	56	142329	22.936	ug/L	98
31) 1,1,1-Trichloroethane	4.65	97	157379	24.769	ug/L	99
32) Carbon tetrachloride	4.87	117	146454	25.247	ug/L	99
34) Benzene	5.14	78	351186	23.785	ug/L	100
35) Trichloroethene	5.96	95	107589	24.170	ug/L	99
36) Methylcyclohexane	6.17	83	169307	23.848	ug/L	99
40) 1,2-Dichloropropane	6.22	63	86687	24.463	ug/L	99
41) Bromodichloromethane	6.55	83	118029	25.271	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	136227	26.258	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	84089	35.109	ug/L	100
44) Toluene	7.43	91	380670	24.584	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	112777	24.936	ug/L	96
46) 1,1,2-Trichloroethane	7.88	97	70411	23.847	ug/L	98
47) Tetrachloroethene	8.02	164	84936	23.463	ug/L	99
49) 2-Hexanone	8.18	43	66527	33.574	ug/L	95
50) Dibromochloromethane	8.29	129	86706	25.618	ug/L	98
51) 1,2-Dibromoethane	8.40	107	68302	23.036	ug/L	99
52) Chlorobenzene	8.92	112	249856	24.781	ug/L	99
53) Ethylbenzene	9.05	91	426799	25.407	ug/L	97
54) m,p-Xylene	9.18	106	163492	25.704	ug/L	99
55) o-xylene	9.59	106	153389	25.956	ug/L	99
56) Styrene	9.60	104	255576	26.809	ug/L	98
57) Isopropylbenzene	9.97	105	423199	26.348	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	67297	21.083	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	56826	20.575	ug/L	98
62) Bromoform	9.78	173	48166	22.597	ug/L	96
63) 1,3-Dichlorobenzene	11.23	146	190408	25.029	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	189390	24.193	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	172661	24.620	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.48	75	10271	17.876	ug/L	96
67) 1,3,5-Trichlorobenzene	12.69	180	133962	24.380	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	99517	25.848	ug/L	95
69) Naphthalene	13.55	128	141522	21.341	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	86331	24.273	ug/L	99

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

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Instrument :
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VSTD02570

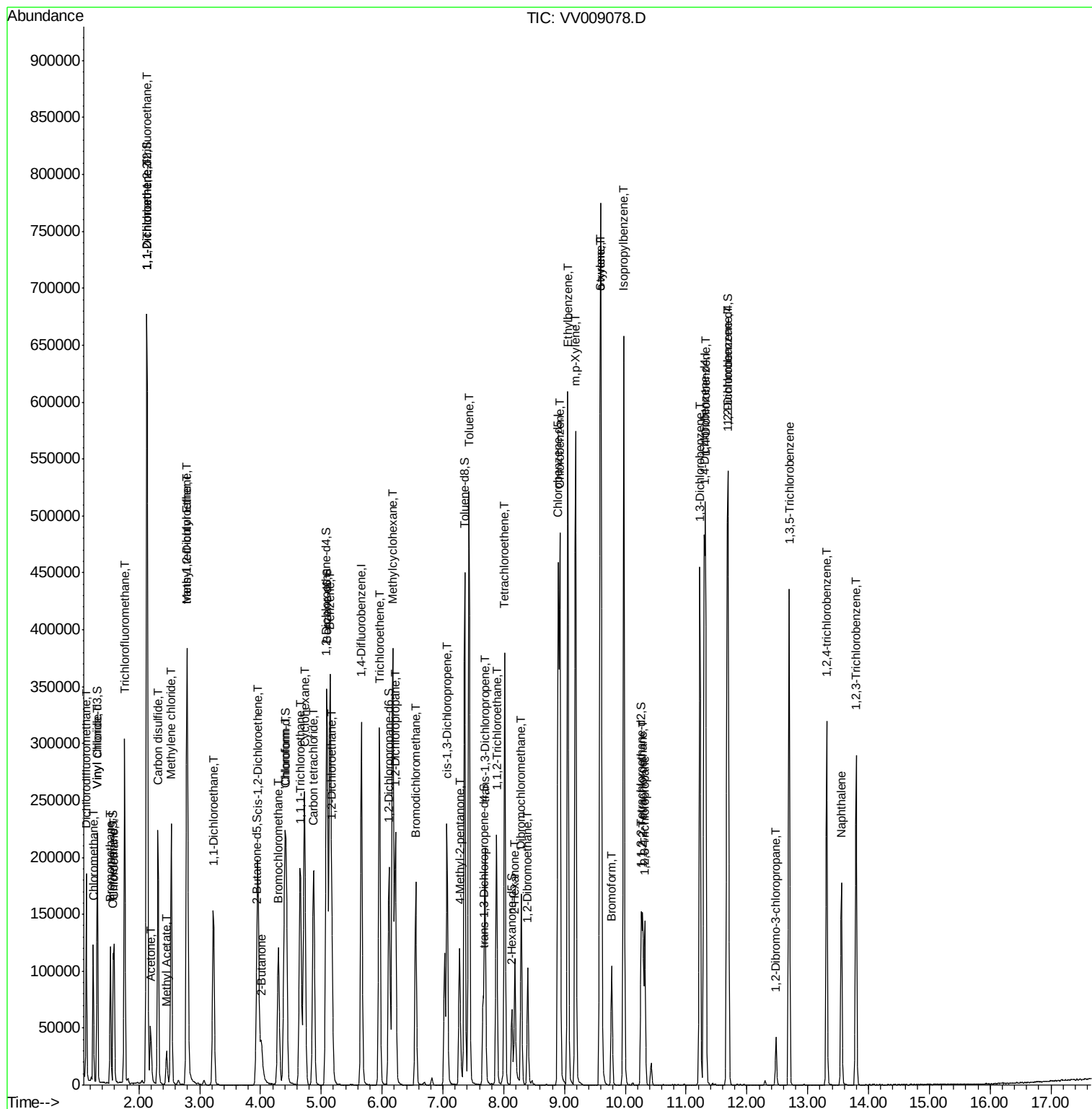
Quant Time: Dec 21 00:23:33 2018

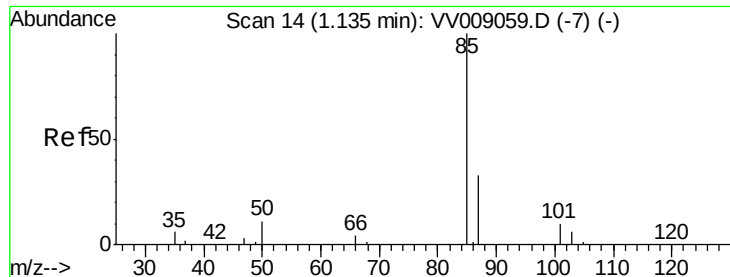
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_V\METHOD\SOM2VLM120618S.M

Quant Title : VOC Analysis

QLast Update : Thu Dec 20 03:44:50 2018

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 20.696 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

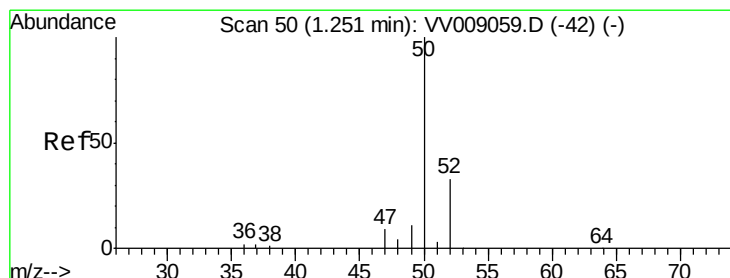
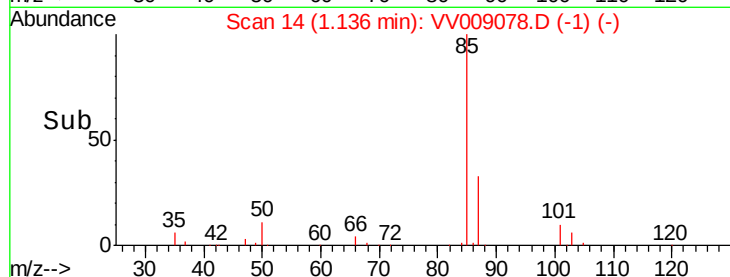
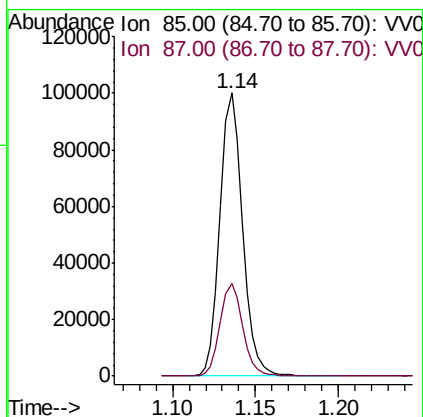
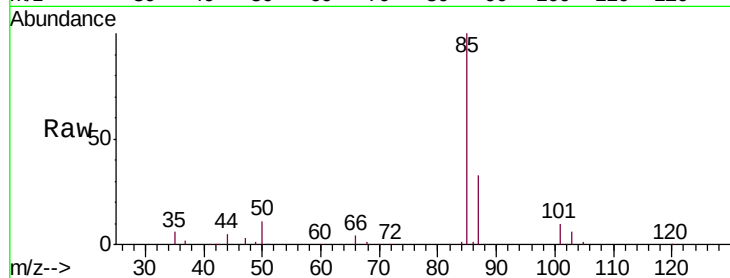
VSTD02570

Tgt Ion: 85 Resp: 94992

Ion Ratio Lower Upper

85 100

87 32.7 22.4 41.6



#3

Chloromethane

Concen: 22.675 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV009078.D

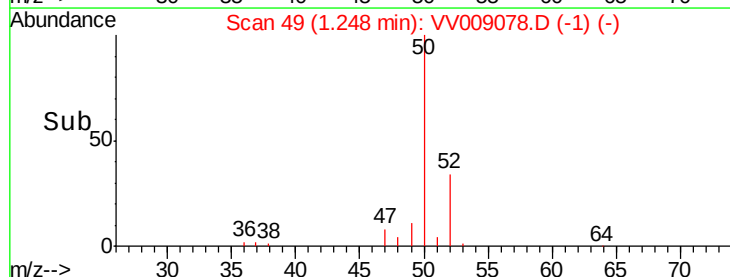
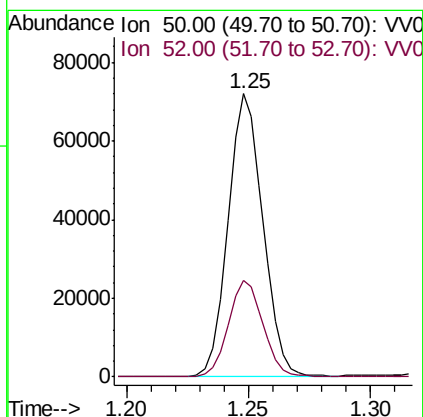
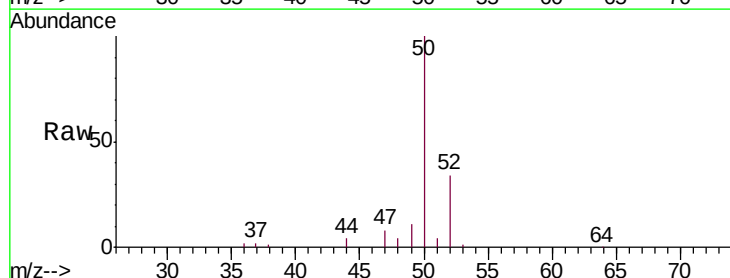
Acq: 20 Dec 2018 11:08

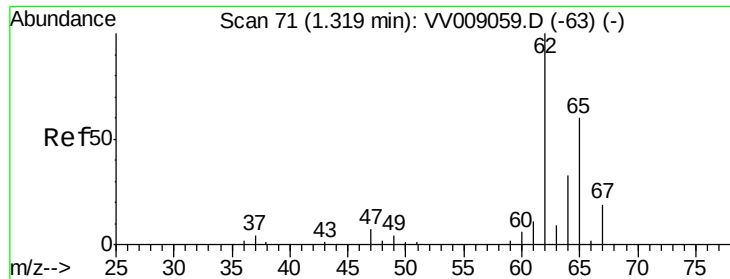
Tgt Ion: 50 Resp: 71518

Ion Ratio Lower Upper

50 100

52 34.3 23.2 43.2





#5

Vinyl chloride

Concen: 22.661 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

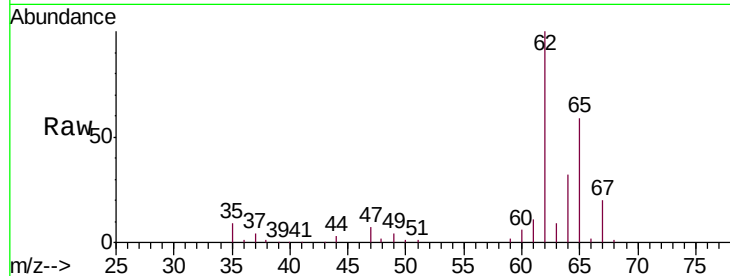
VSTD02570

Tgt Ion: 62 Resp: 79790

Ion Ratio Lower Upper

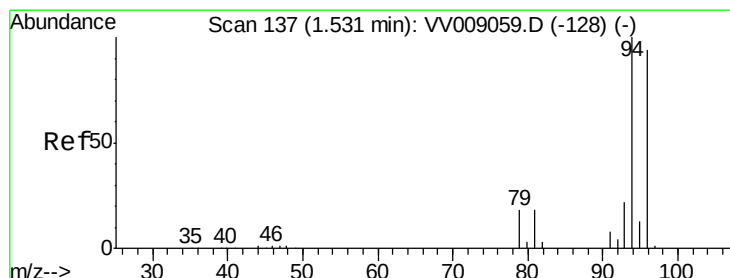
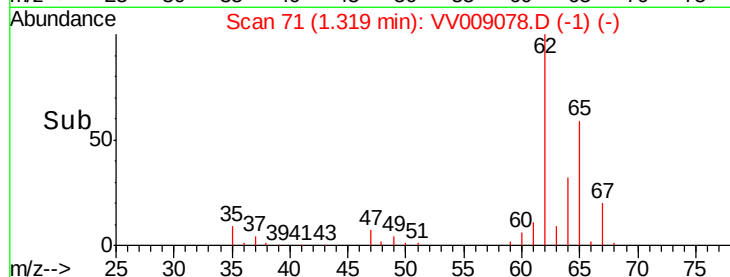
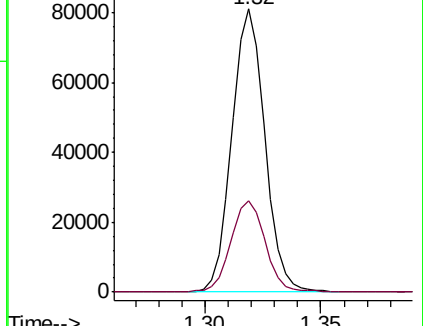
62 100

64 32.2 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV009059.D (-63) (-)

Ion 64.00 (63.70 to 64.70): VV009059.D (-63) (-)



#6

Bromomethane

Concen: 26.689 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV009078.D

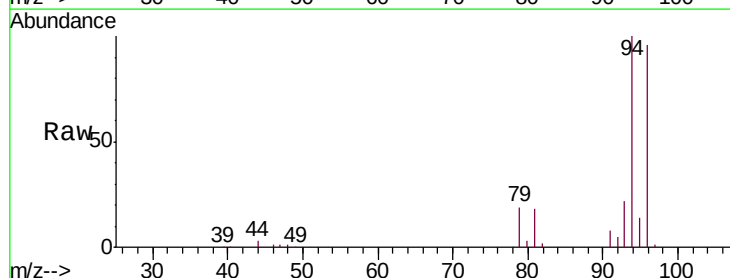
Acq: 20 Dec 2018 11:08

Tgt Ion: 94 Resp: 45181

Ion Ratio Lower Upper

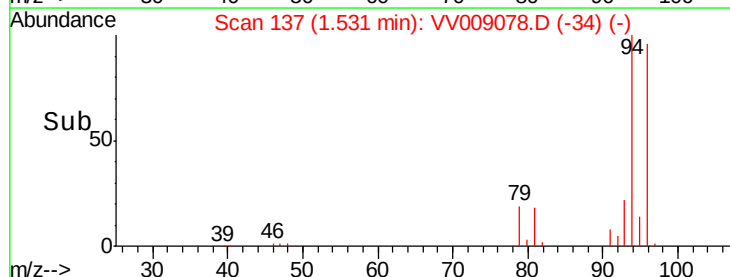
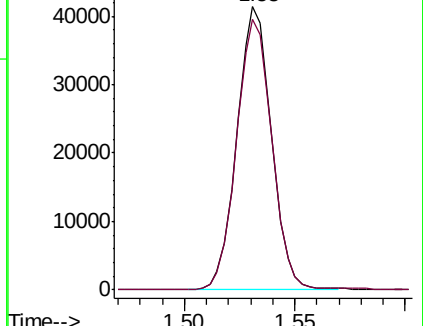
94 100

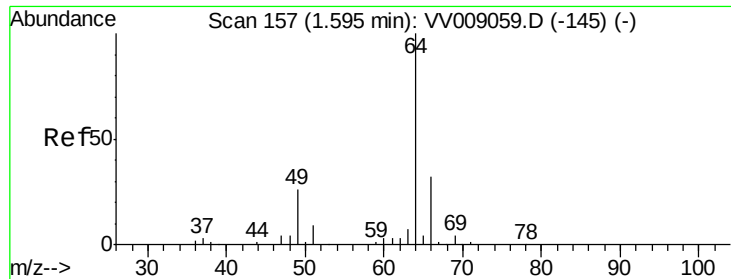
96 97.6 9.5 180.9



Abundance Ion 94.00 (93.70 to 94.70): VV009059.D (-128) (-)

Ion 96.00 (95.70 to 96.70): VV009059.D (-128) (-)





#8

Chloroethane

Concen: 30.233 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

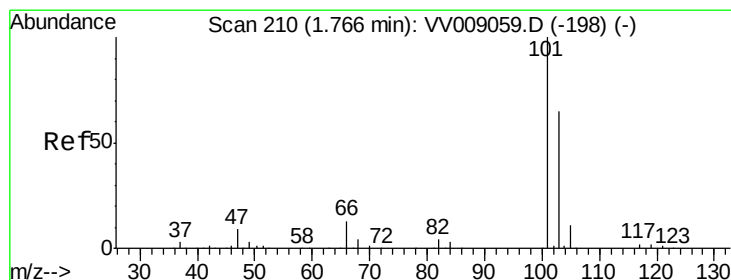
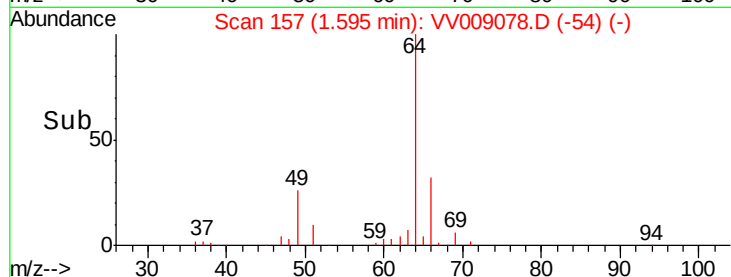
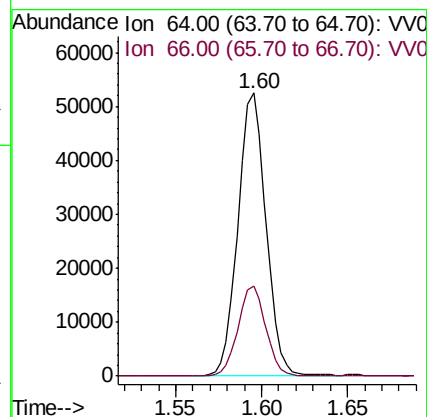
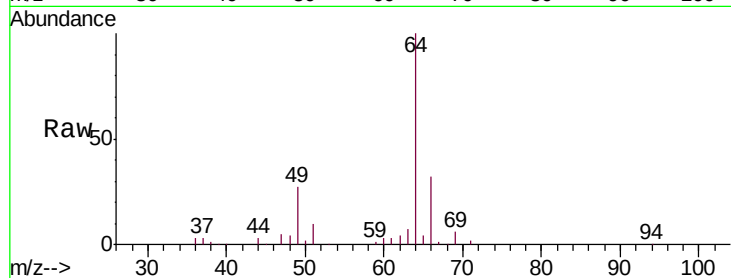
VSTD02570

Tgt Ion: 64 Resp: 59621

Ion Ratio Lower Upper

64 100

66 31.8 22.2 41.2



#9

Trichlorofluoromethane

Concen: 28.524 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV009078.D

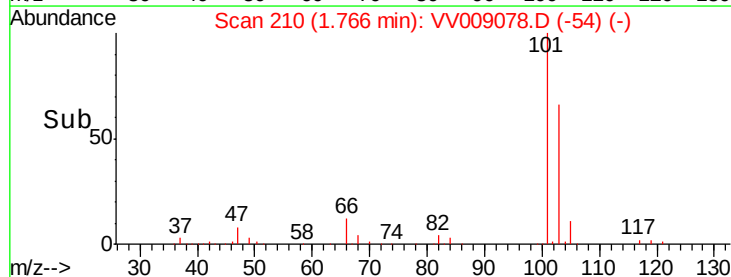
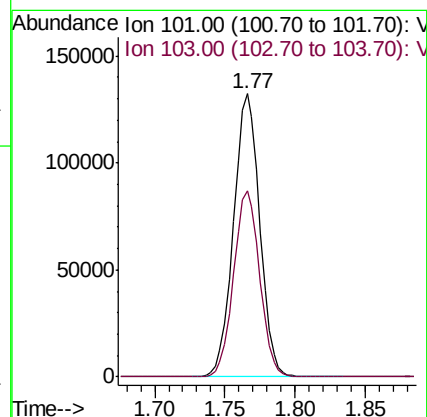
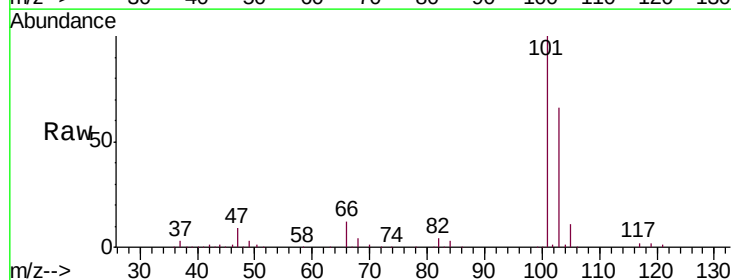
Acq: 20 Dec 2018 11:08

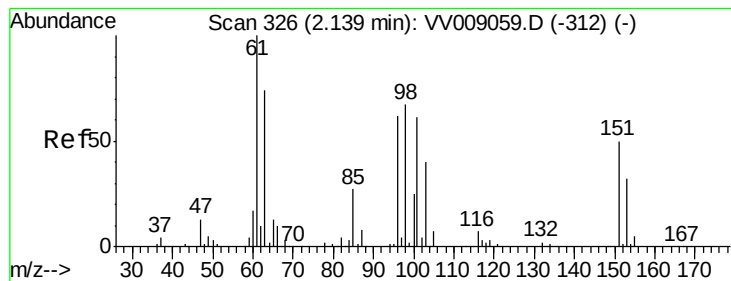
Tgt Ion: 101 Resp: 172028

Ion Ratio Lower Upper

101 100

103 65.6 44.8 83.2





#11

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

Concen: 23.759 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02570

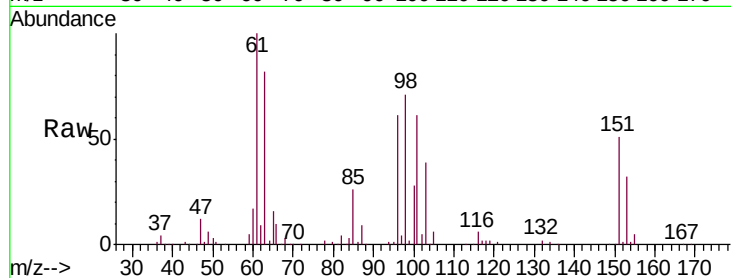
Tgt Ion:101 Resp: 98272

Ion Ratio Lower Upper

101 100

85 42.1 32.5 48.7

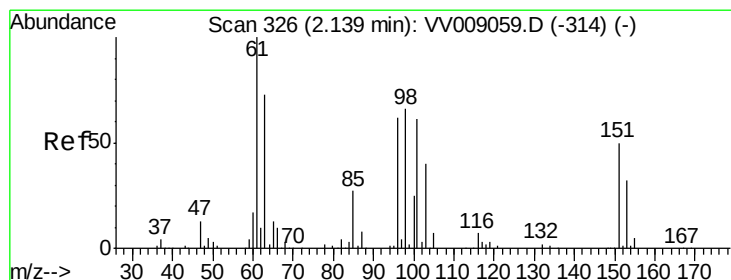
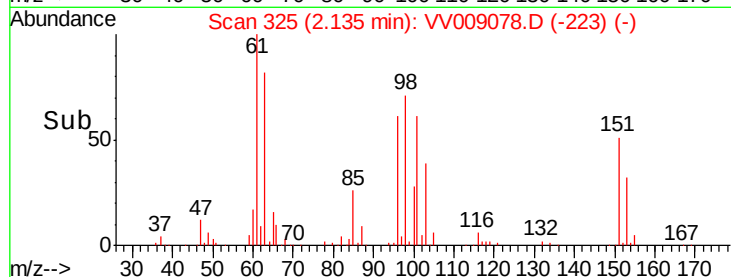
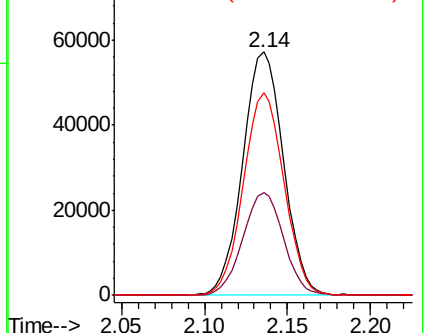
151 82.7 64.2 96.4



Abundance Ion 101.00 (100.70 to 101.70): VV009059.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV009059.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV009059.D (-312) (-)



#12

1,1-Dichloroethene

Concen: 23.506 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

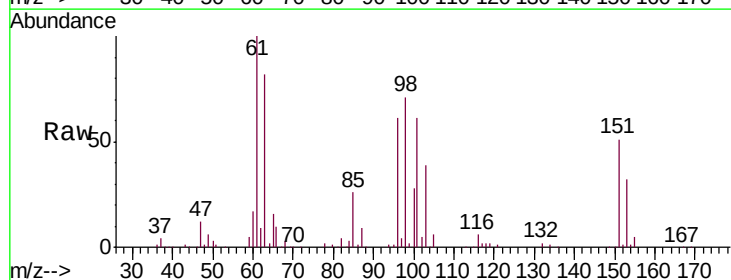
Tgt Ion: 96 Resp: 84844

Ion Ratio Lower Upper

96 100

61 164.3 114.0 211.6

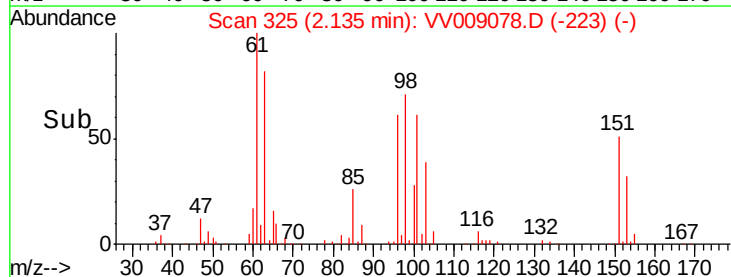
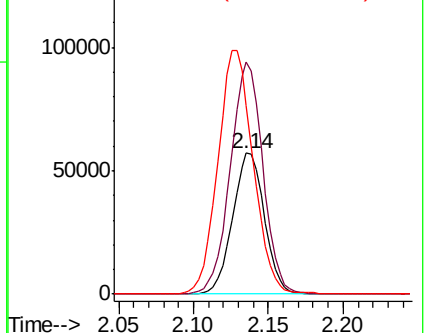
63 134.0 82.4 153.0

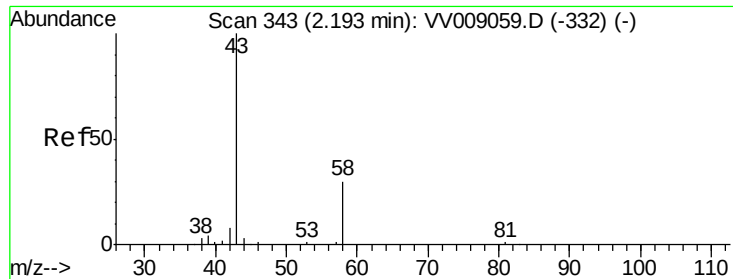


Abundance Ion 96.00 (95.70 to 96.70): VV009059.D (-314) (-)

Ion 61.00 (60.70 to 61.70): VV009059.D (-314) (-)

Ion 63.00 (62.70 to 63.70): VV009059.D (-314) (-)





#13

Acetone

Concen: 41.023 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

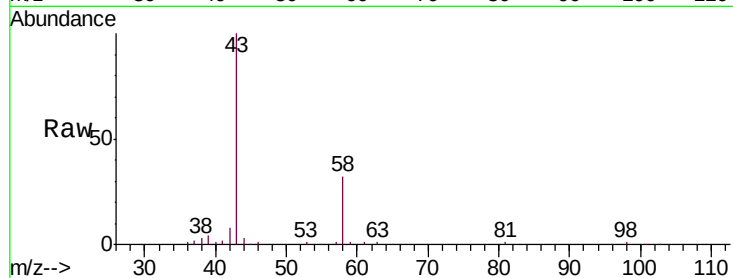
VSTD02570

Tgt Ion: 43 Resp: 63762

Ion Ratio Lower Upper

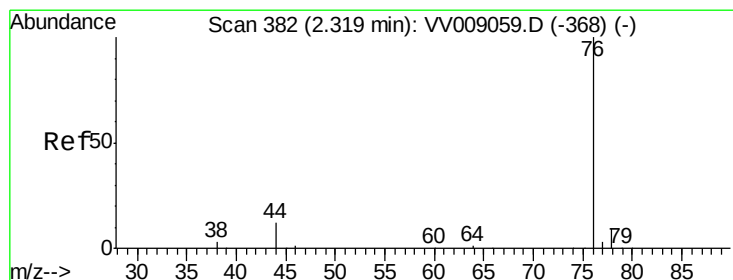
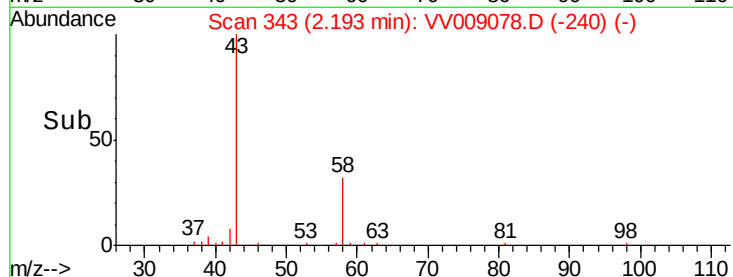
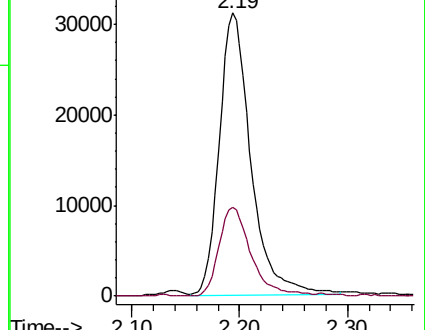
43 100

58 31.9 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VV009059.D (-332) (-)

Ion 58.00 (57.70 to 58.70): VV009059.D (-332) (-)



#14

Carbon disulfide

Concen: 21.971 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009078.D

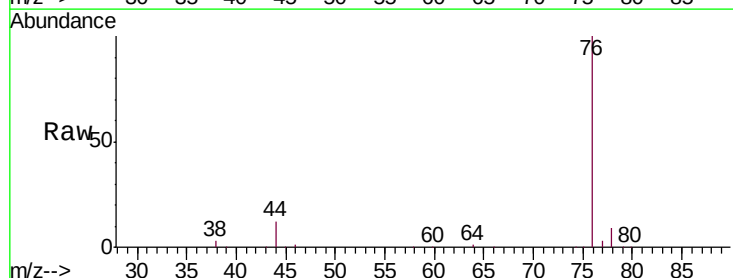
Acq: 20 Dec 2018 11:08

Tgt Ion: 76 Resp: 254652

Ion Ratio Lower Upper

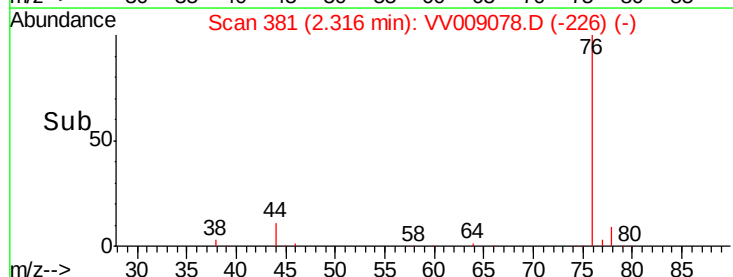
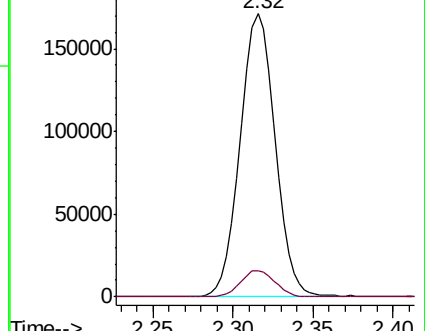
76 100

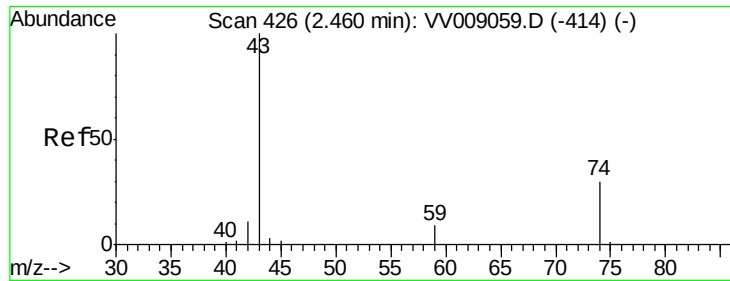
78 9.4 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV009059.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV009059.D (-368) (-)

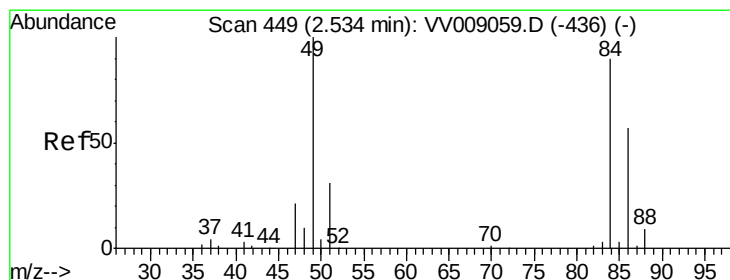
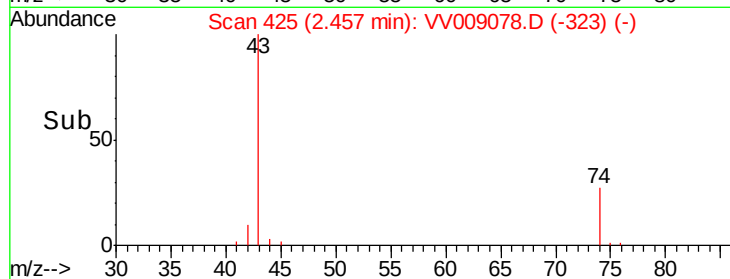
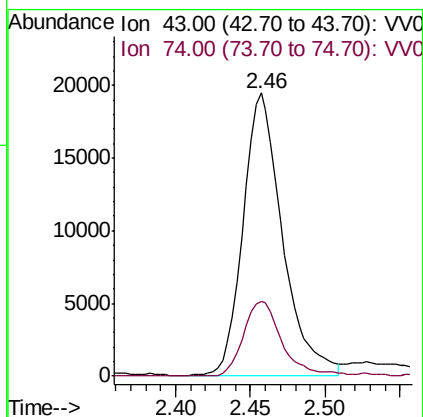
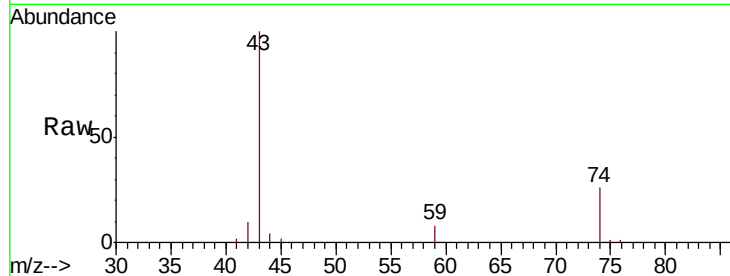




#15
Methyl Acetate
Concen: 18.195 ug/L
RT: 2.46 min Scan# 425
Delta R.T. -0.00 min
Lab File: VV009078.D
Acq: 20 Dec 2018 11:08

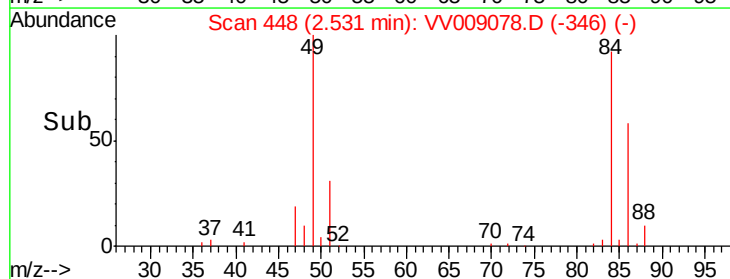
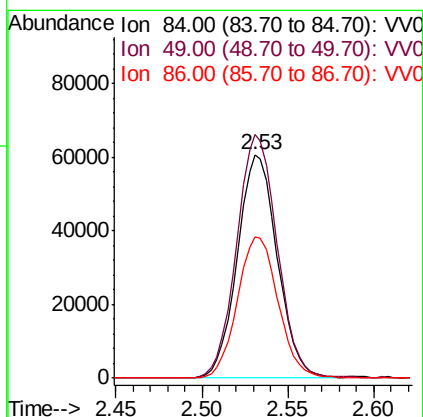
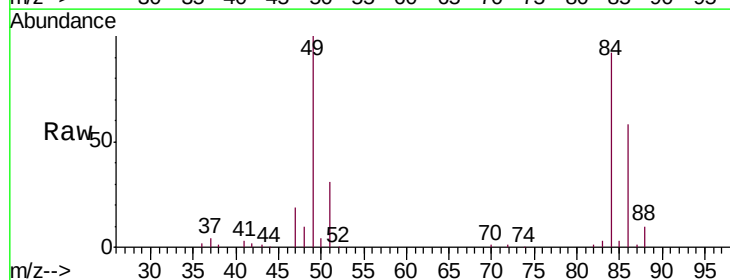
Instrument :
MSVOA_V
ClientSampleId :
VSTD02570

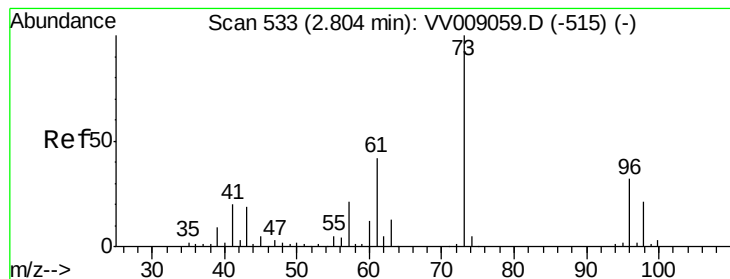
Tgt Ion: 43 Resp: 35861
Ion Ratio Lower Upper
43 100
74 25.8 19.7 29.5



#16
Methylene chloride
Concen: 20.863 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.00 min
Lab File: VV009078.D
Acq: 20 Dec 2018 11:08

Tgt Ion: 84 Resp: 98372
Ion Ratio Lower Upper
84 100
49 109.1 80.5 149.5
86 63.3 45.5 84.5





#17

Methyl tert-butyl Ether

Concen: 23.915 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02570

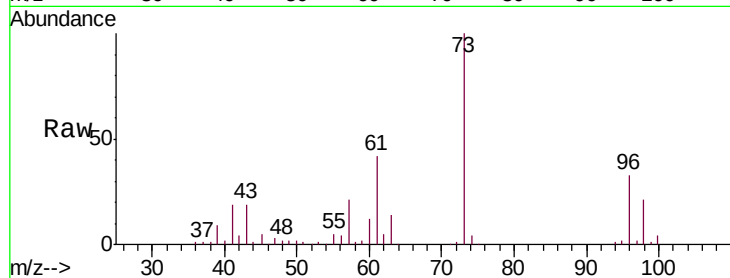
Tgt Ion: 73 Resp: 196104

Ion Ratio Lower Upper

73 100

43 19.8 14.9 22.3

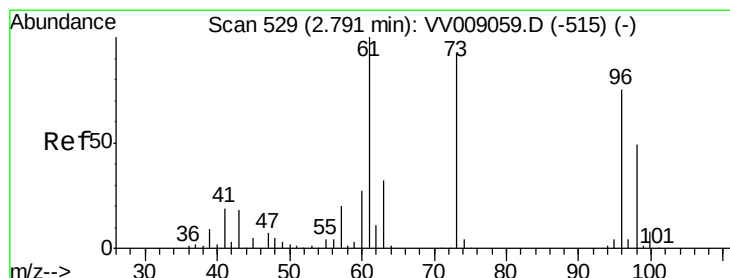
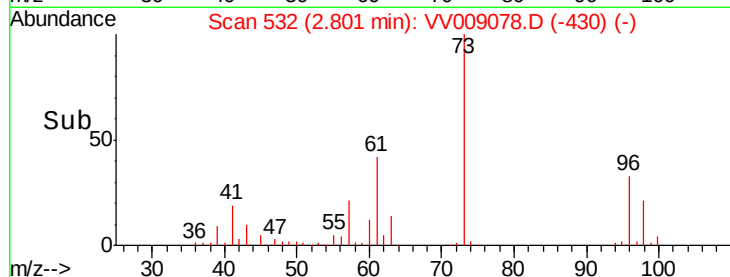
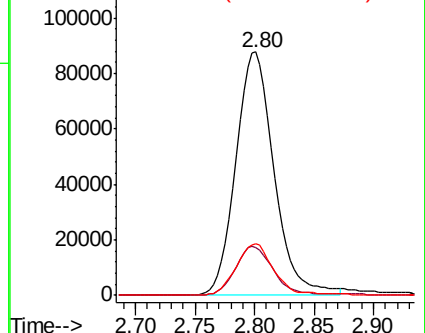
57 21.0 16.0 24.0



Abundance Ion 73.00 (72.70 to 73.70): VV009059.D (-515) (-)

Ion 43.00 (42.70 to 43.70): VV009059.D (-515) (-)

Ion 57.00 (56.70 to 57.70): VV009059.D (-515) (-)



#18

trans-1,2-Dichloroethene

Concen: 23.961 ug/L

RT: 2.79 min Scan# 528

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

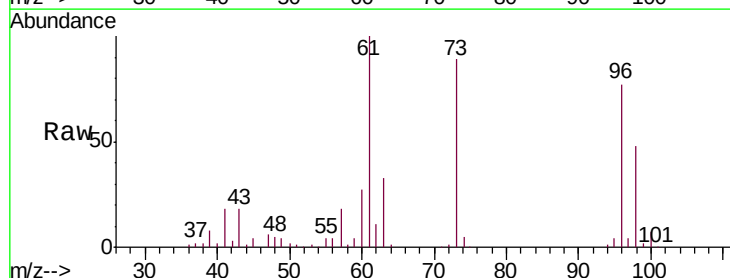
Tgt Ion: 96 Resp: 93454

Ion Ratio Lower Upper

96 100

61 129.9 94.6 175.8

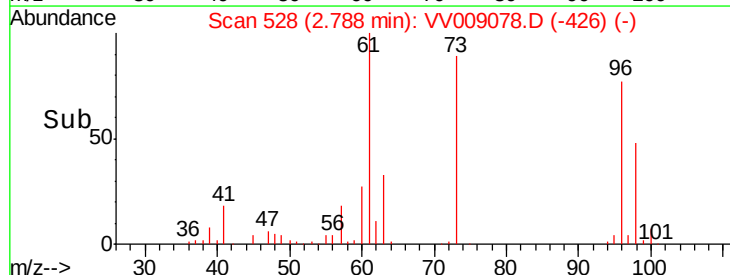
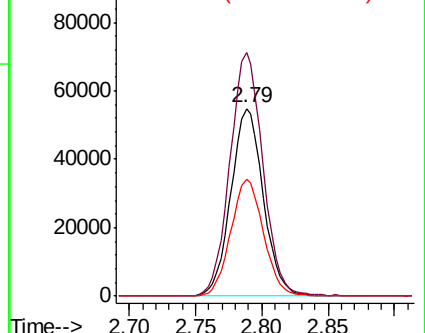
98 62.2 45.3 84.1

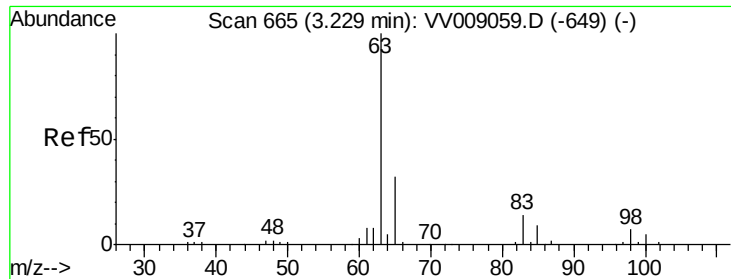


Abundance Ion 96.00 (95.70 to 96.70): VV009059.D (-515) (-)

Ion 61.00 (60.70 to 61.70): VV009059.D (-515) (-)

Ion 98.00 (97.70 to 98.70): VV009059.D (-515) (-)

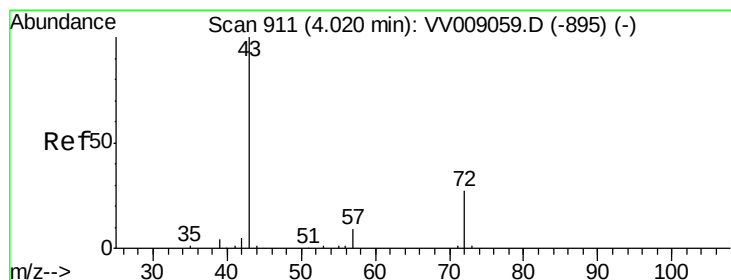
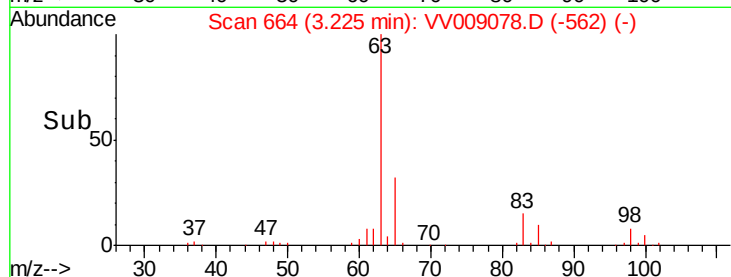
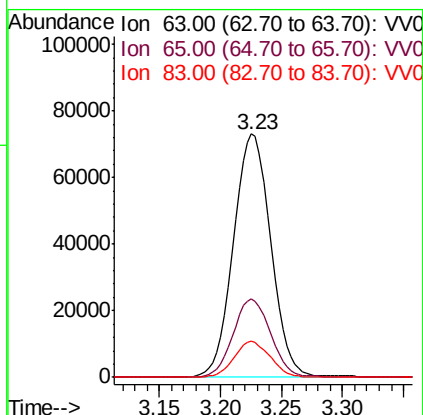
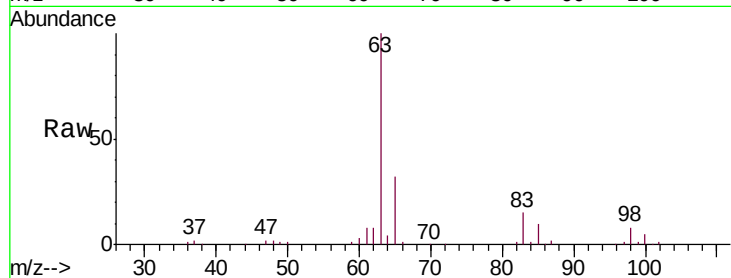




#19
 1,1-Dichloroethane
 Concen: 24.552 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

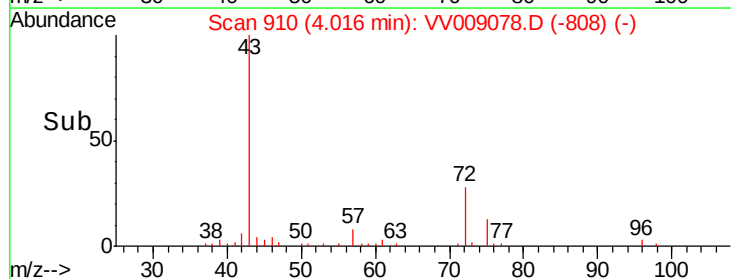
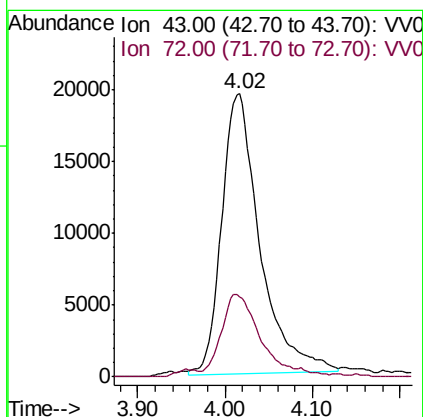
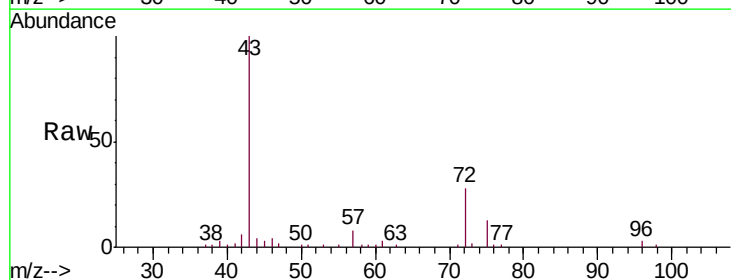
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02570

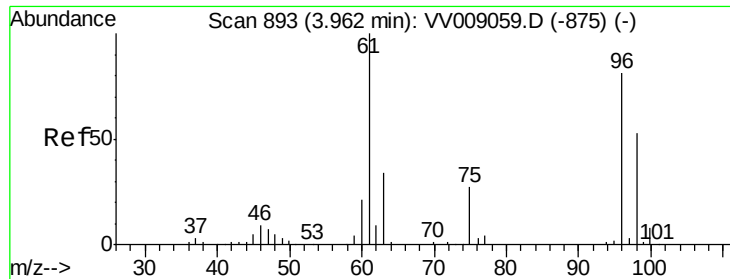
Tgt Ion: 63 Resp: 155233
 Ion Ratio Lower Upper
 63 100
 65 32.1 22.7 42.1
 83 14.9 10.2 19.0



#21
 2-Butanone
 Concen: 40.649 ug/L
 RT: 4.02 min Scan# 910
 Delta R.T. -0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

Tgt Ion: 43 Resp: 59216
 Ion Ratio Lower Upper
 43 100
 72 26.6 13.7 41.1



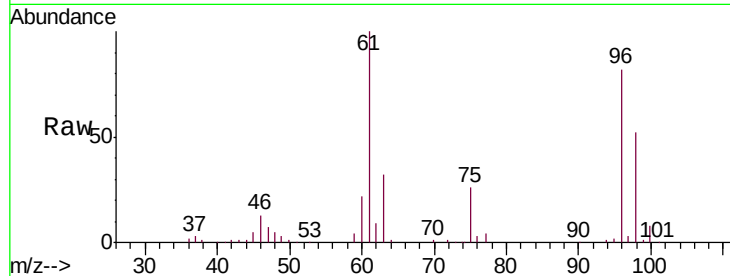


#22

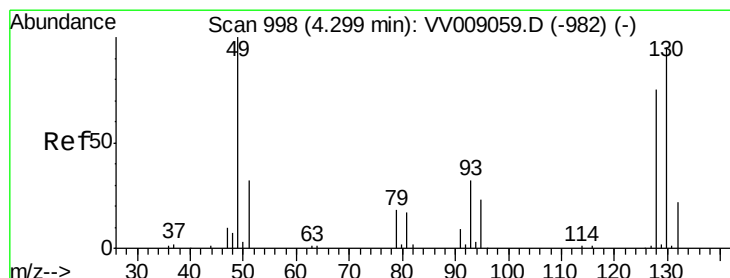
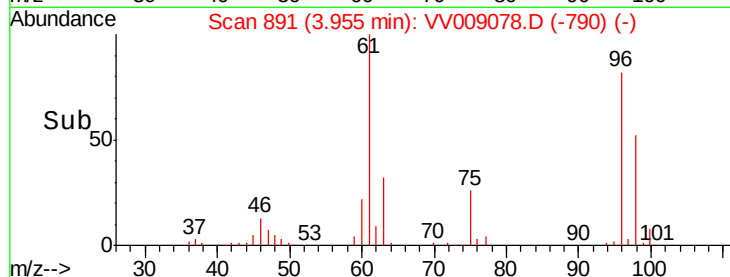
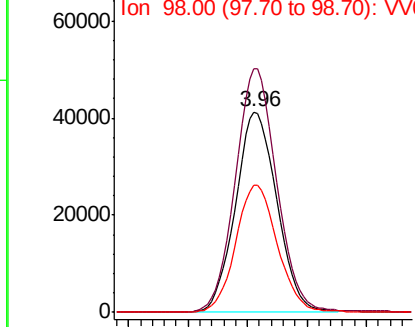
cis-1,2-Dichloroethene
 Concen: 24.530 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. -0.01 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02570

Tgt Ion: 96 Resp: 99757
 Ion Ratio Lower Upper
 96 100
 61 121.5 86.2 160.0
 98 63.3 45.6 84.6



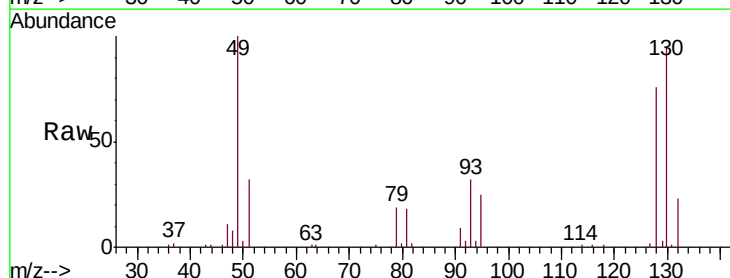
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0



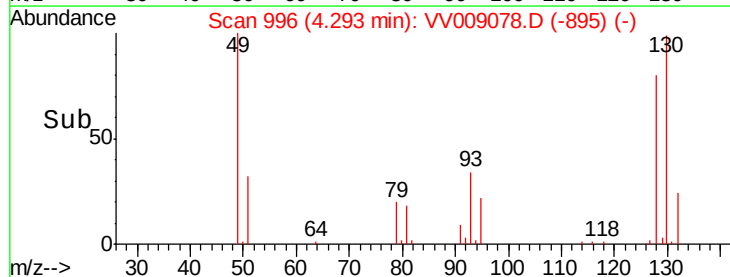
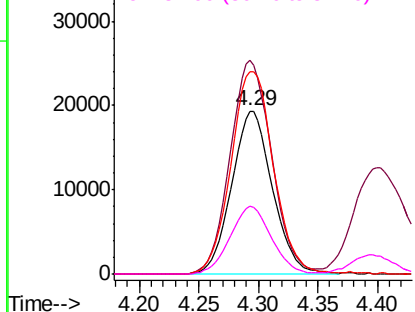
#23

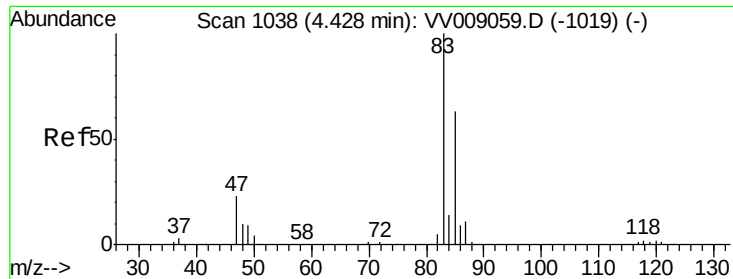
Bromochloromethane
 Concen: 23.879 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. -0.01 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

Tgt Ion: 128 Resp: 45770
 Ion Ratio Lower Upper
 128 100
 49 131.3 93.8 174.2
 130 124.7 90.4 168.0
 51 41.5 34.2 51.4



Abundance Ion 128.00 (127.70 to 128.70): VV0
 Ion 49.00 (48.70 to 49.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0
 Ion 51.00 (50.70 to 51.70): VV0

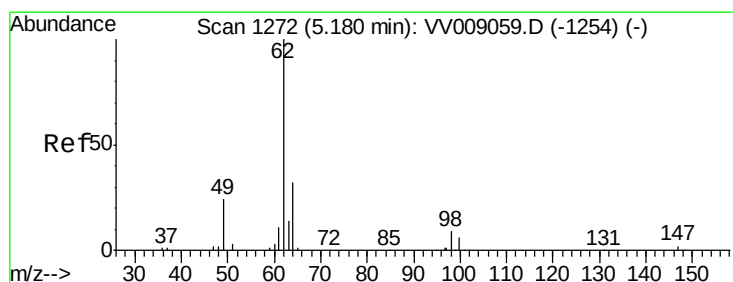
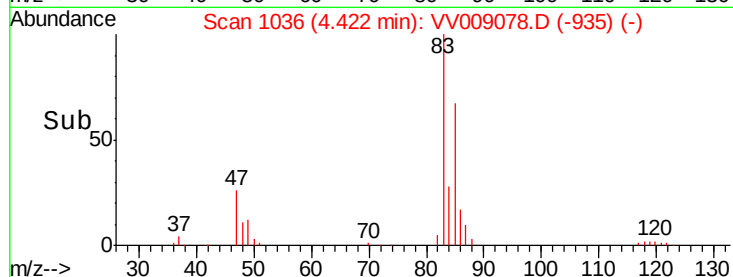
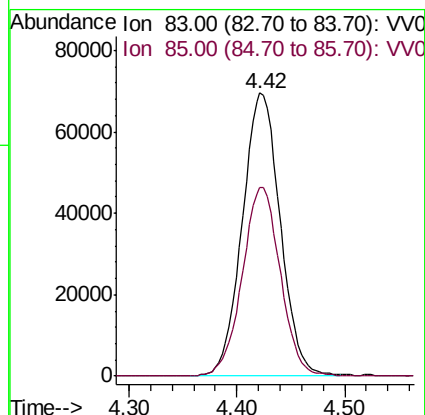
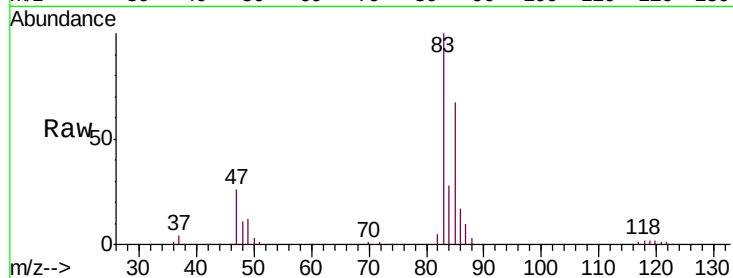




#25
Chloroform
Concen: 25.096 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.01 min
Lab File: VV009078.D
Acq: 20 Dec 2018 11:08

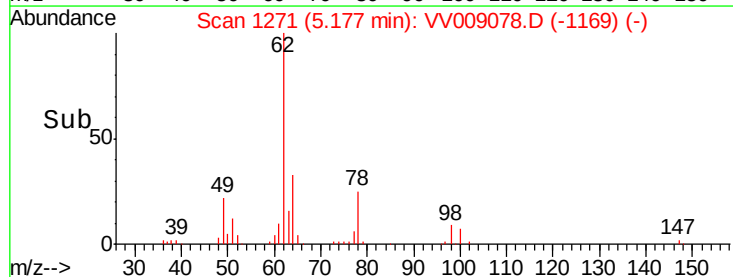
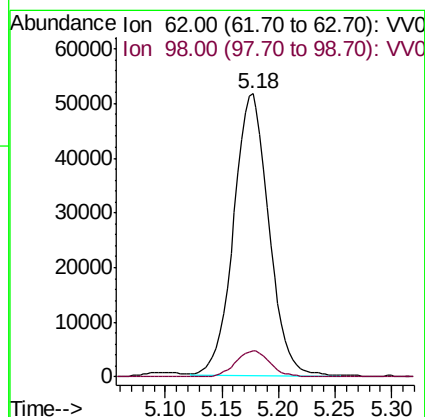
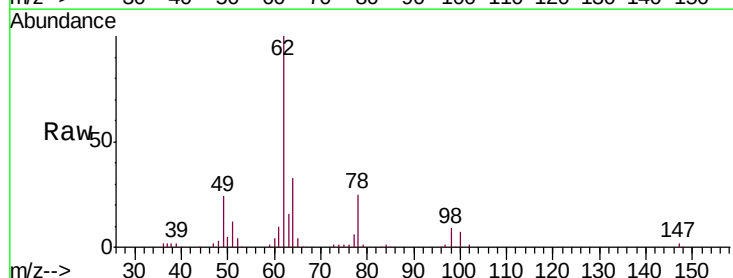
Instrument :
MSVOA_V
ClientSampleId :
VSTD02570

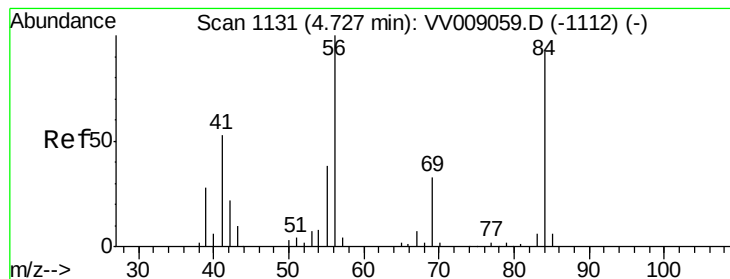
Tgt Ion: 83 Resp: 170294
Ion Ratio Lower Upper
83 100
85 66.9 45.6 84.8



#27
1,2-Dichloroethane
Concen: 24.222 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV009078.D
Acq: 20 Dec 2018 11:08

Tgt Ion: 62 Resp: 111963
Ion Ratio Lower Upper
62 100
98 9.2 7.4 11.0





#30

Cyclohexane

Concen: 22.936 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02570

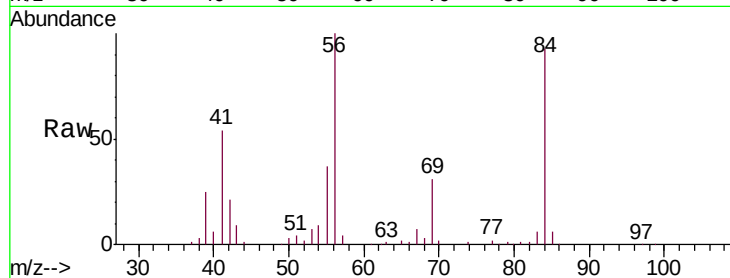
Tgt Ion: 56 Resp: 142329

Ion Ratio Lower Upper

56 100

69 31.7 25.8 38.8

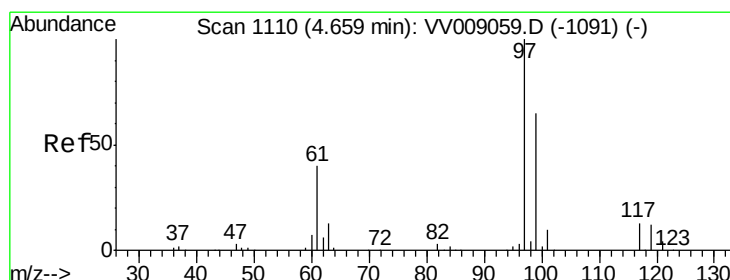
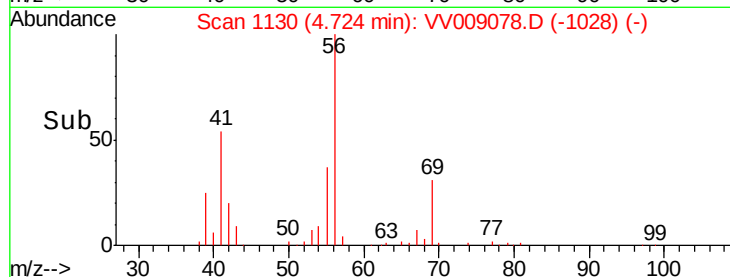
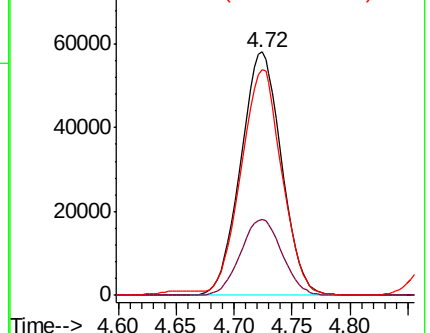
84 93.1 73.0 109.6



Abundance Ion 56.00 (55.70 to 56.70): VV009059.D (-1112) (-)

Ion 69.00 (68.70 to 69.70): VV009059.D (-1112) (-)

Ion 84.00 (83.70 to 84.70): VV009059.D (-1112) (-)



#31

1,1,1-Trichloroethane

Concen: 24.769 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.01 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

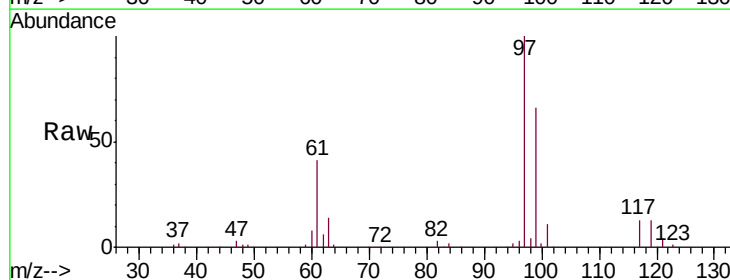
Tgt Ion: 97 Resp: 157379

Ion Ratio Lower Upper

97 100

99 65.8 51.9 77.9

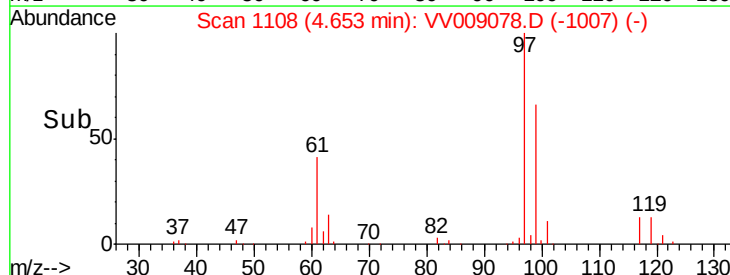
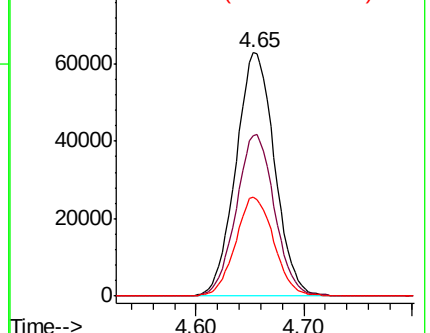
61 40.4 33.1 49.7

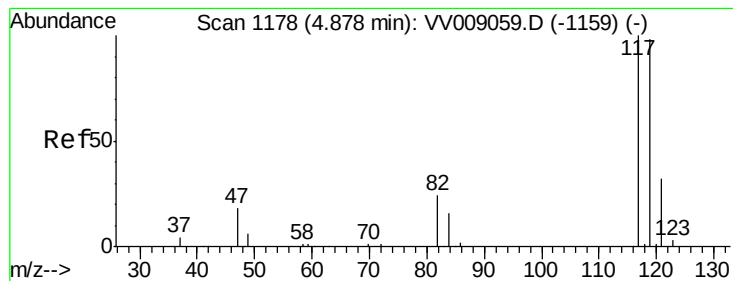


Abundance Ion 97.00 (96.70 to 97.70): VV009059.D (-1091) (-)

Ion 99.00 (98.70 to 99.70): VV009059.D (-1091) (-)

Ion 61.00 (60.70 to 61.70): VV009059.D (-1091) (-)





#32

Carbon tetrachloride

Concen: 25.247 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

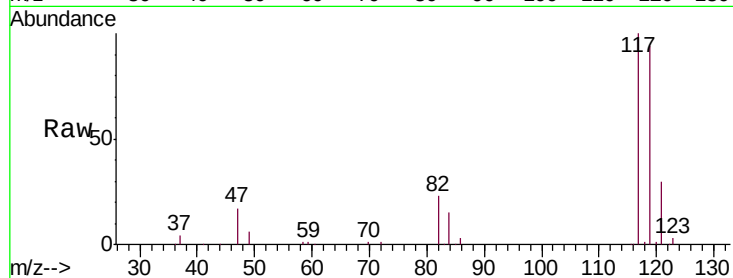
VSTD02570

Tgt Ion:117 Resp: 146454

Ion Ratio Lower Upper

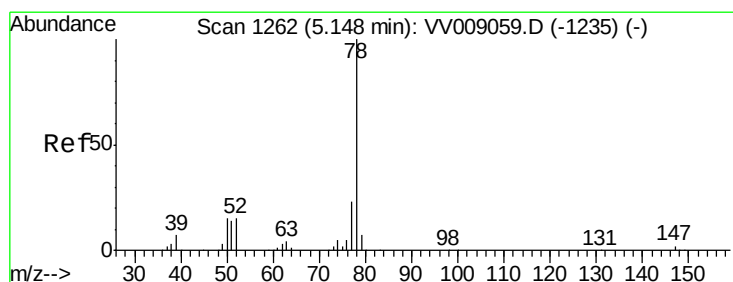
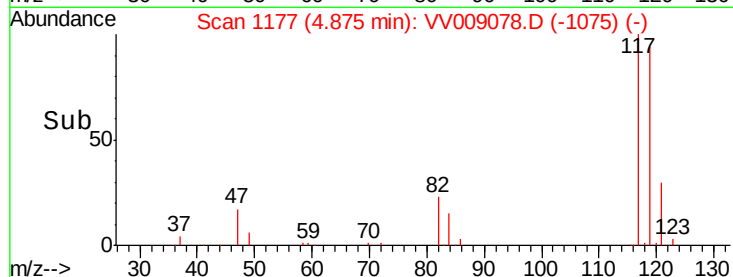
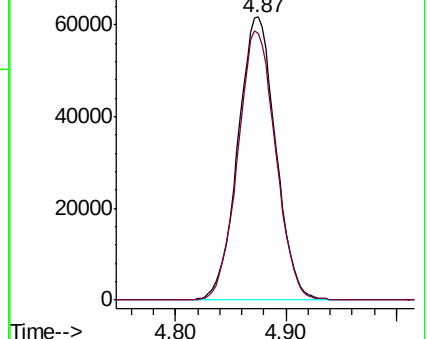
117 100

119 95.0 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 23.785 ug/L

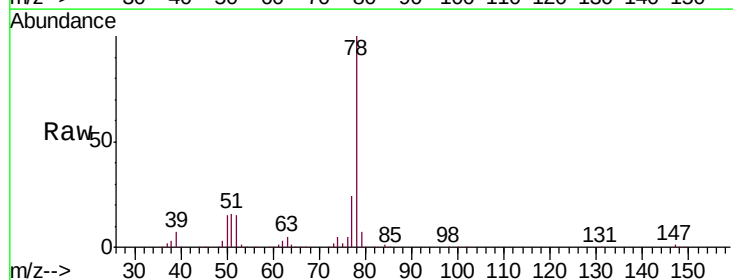
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

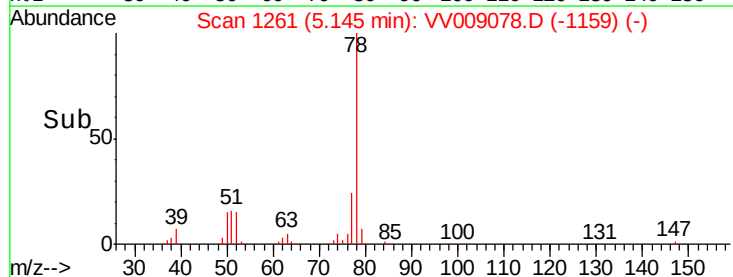
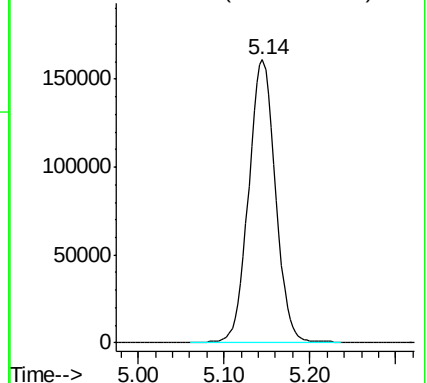
Lab File: VV009078.D

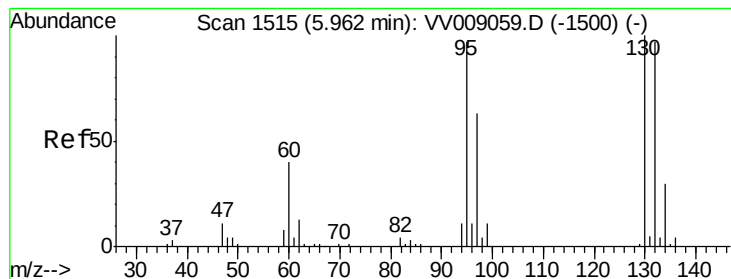
Acq: 20 Dec 2018 11:08

Tgt Ion: 78 Resp: 351186



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 24.170 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.01 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02570

Tgt Ion: 95 Resp: 107589

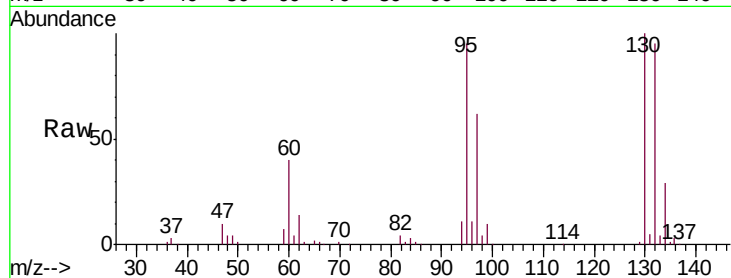
Ion Ratio Lower Upper

95 100

97 64.8 45.3 84.1

132 102.0 70.0 130.0

130 106.5 73.4 136.4

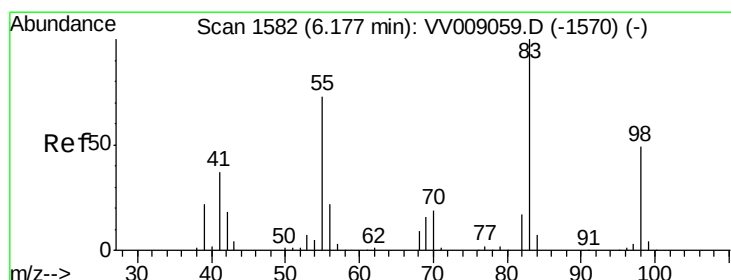
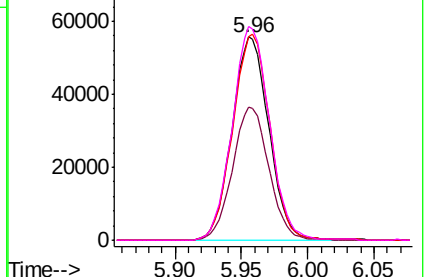
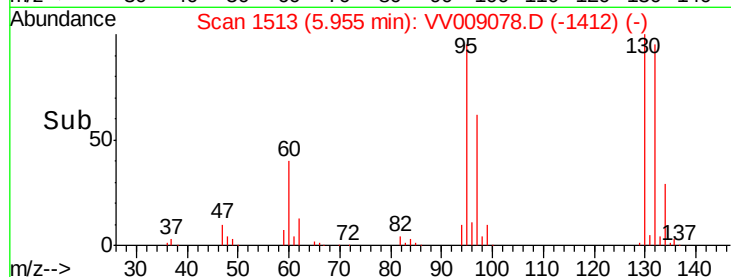


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 23.848 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

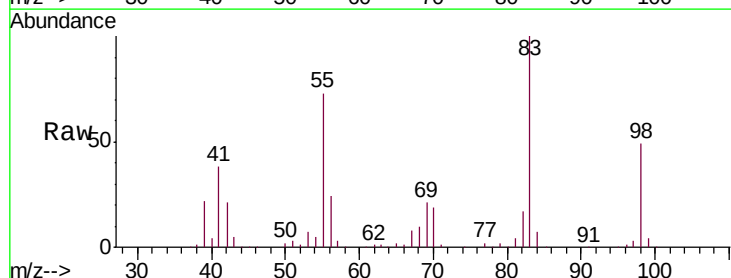
Tgt Ion: 83 Resp: 169307

Ion Ratio Lower Upper

83 100

55 71.9 58.2 87.2

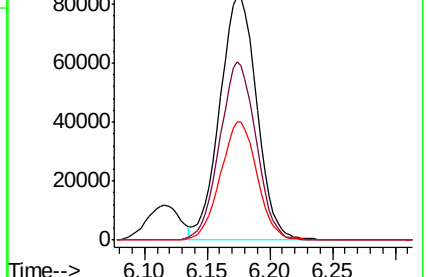
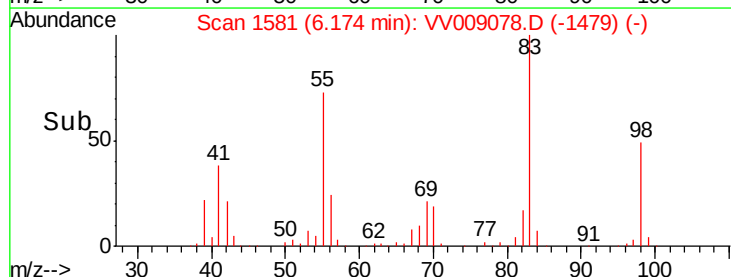
98 48.1 37.8 56.8

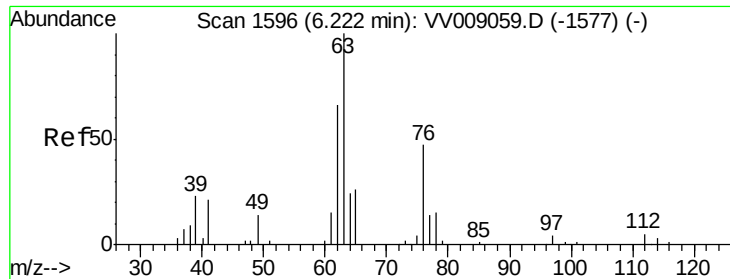


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

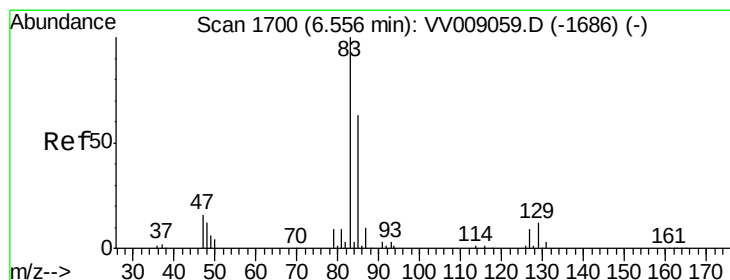
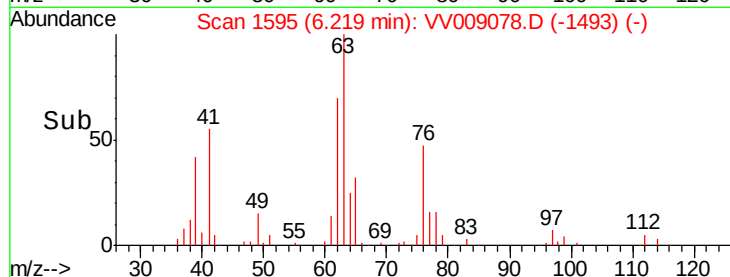
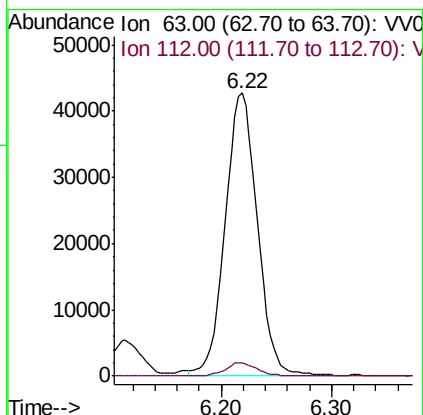
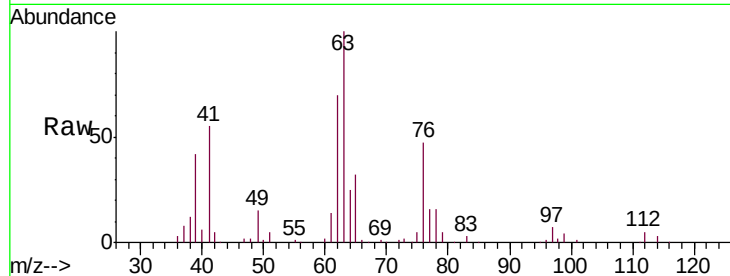




#40
 1,2-Dichloropropane
 Concen: 24.463 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

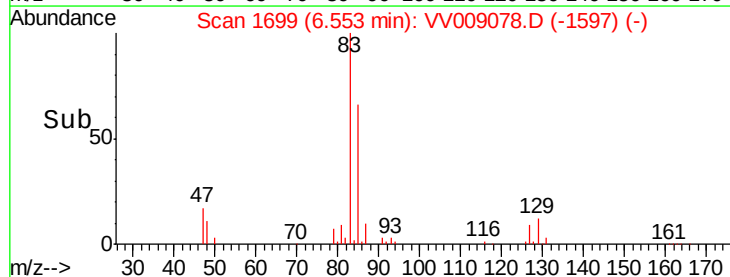
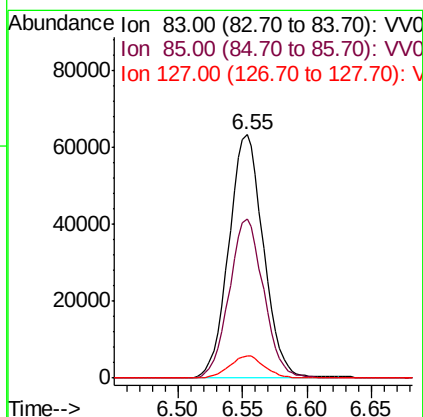
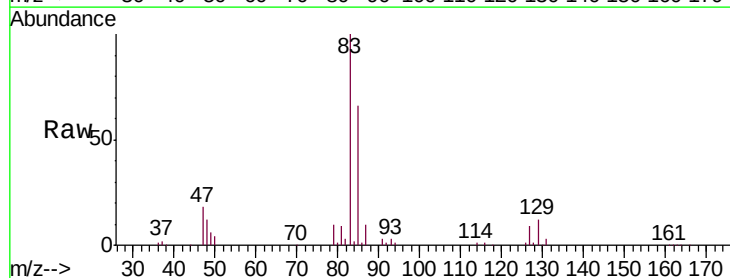
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02570

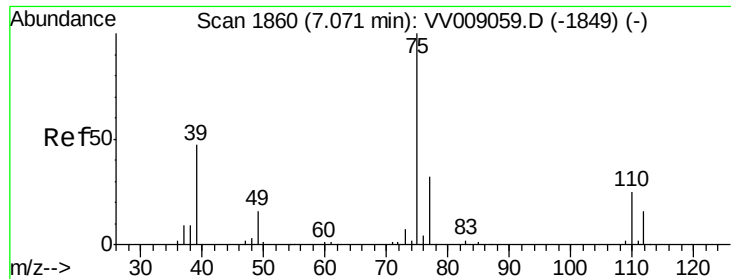
Tgt Ion: 63 Resp: 86687
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.8 5.8



#41
 Bromodichloromethane
 Concen: 25.271 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

Tgt Ion: 83 Resp: 118029
 Ion Ratio Lower Upper
 83 100
 85 65.6 45.3 84.1
 127 9.1 7.2 10.8



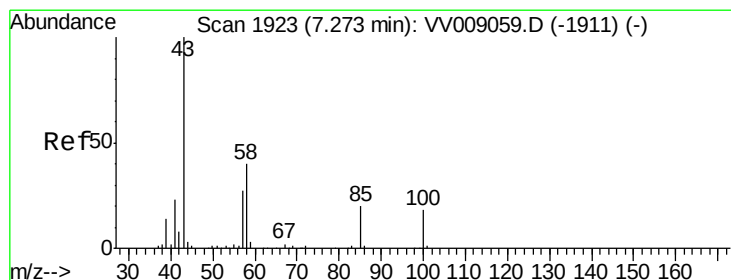
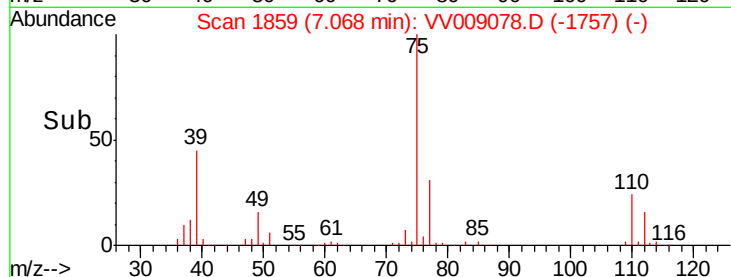
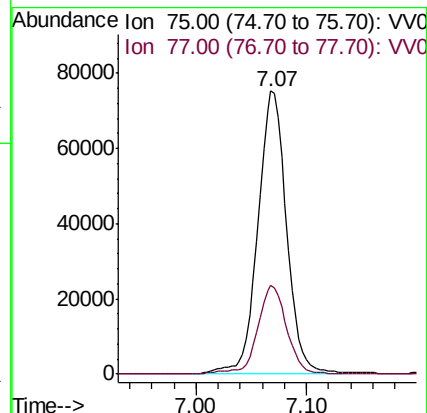
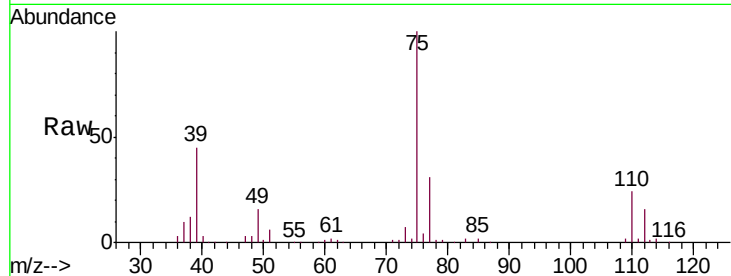


#42

cis-1,3-Dichloropropene
 Concen: 26.258 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02570

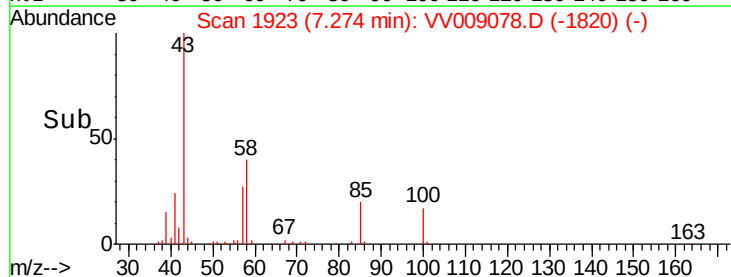
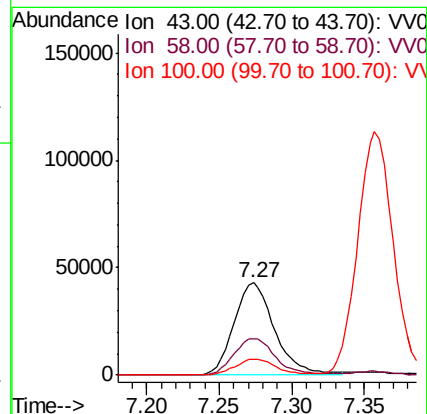
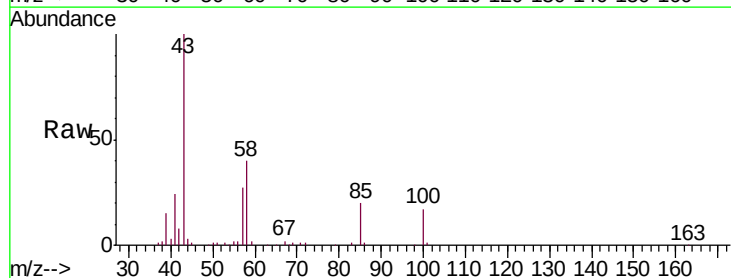
Tgt Ion: 75 Resp: 136227
 Ion Ratio Lower Upper
 75 100
 77 31.3 21.3 39.6

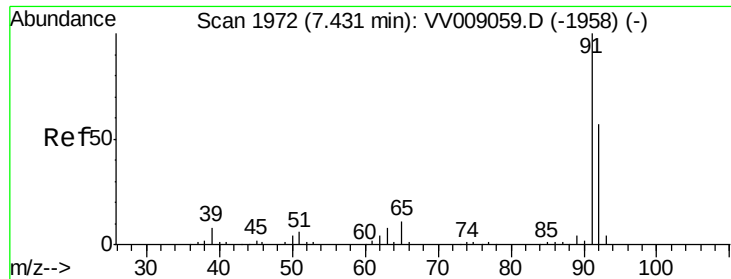


#43

4-Methyl-2-pentanone
 Concen: 35.109 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

Tgt Ion: 43 Resp: 84089
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.2 48.4
 100 17.5 13.8 20.8





#44

Toluene

Concen: 24.584 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

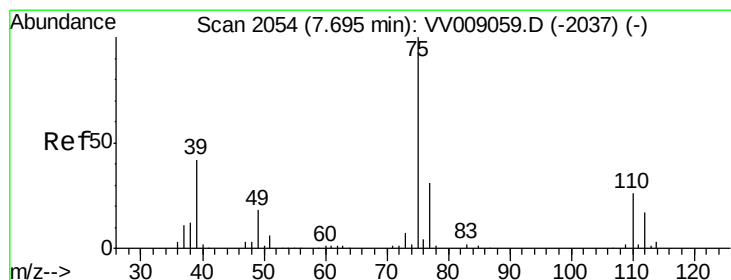
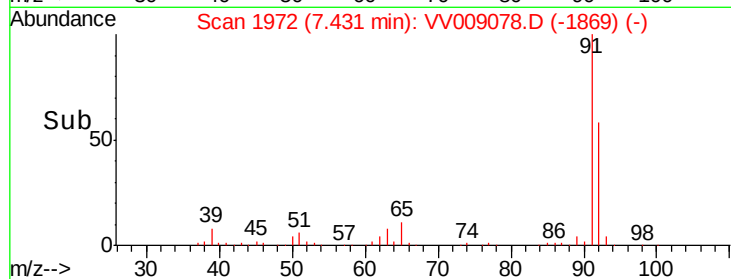
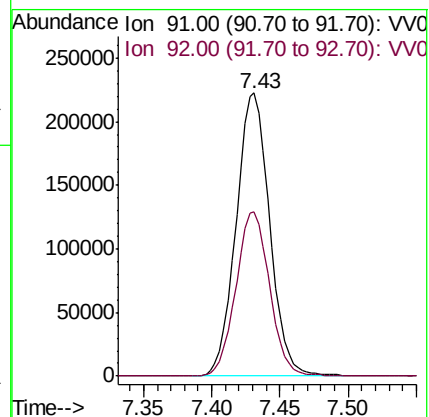
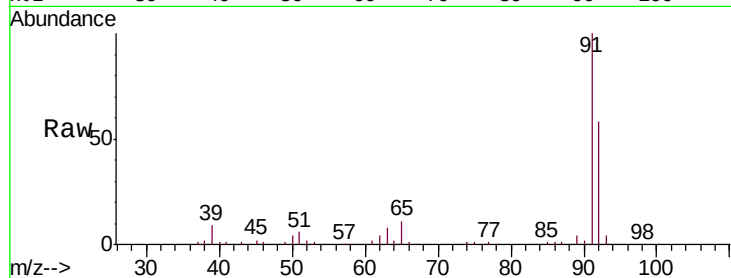
VSTD02570

Tgt Ion: 91 Resp: 380670

Ion Ratio Lower Upper

91 100

92 58.0 41.7 77.5



#45

trans-1,3-Dichloropropene

Concen: 24.936 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV009078.D

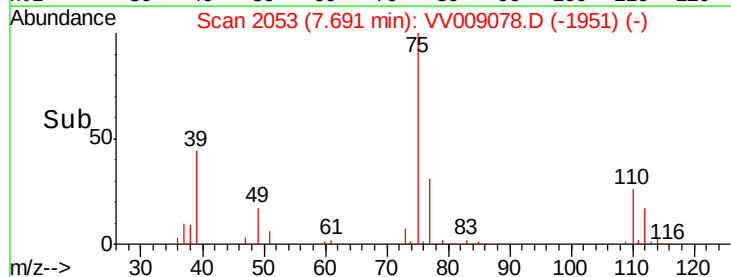
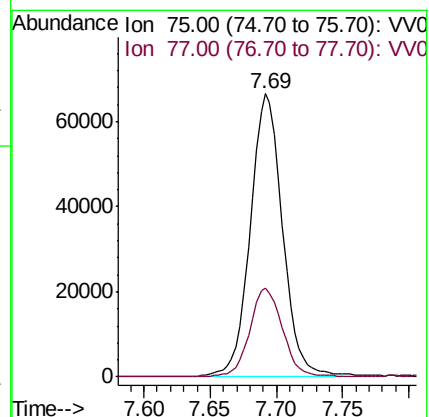
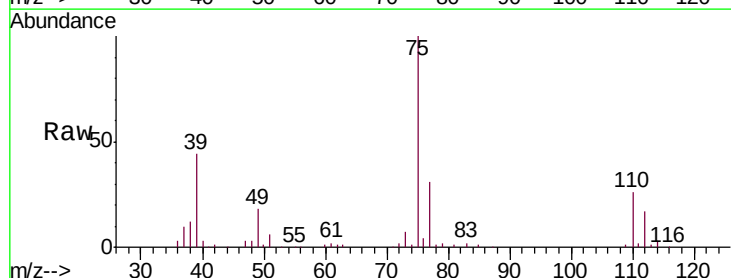
Acq: 20 Dec 2018 11:08

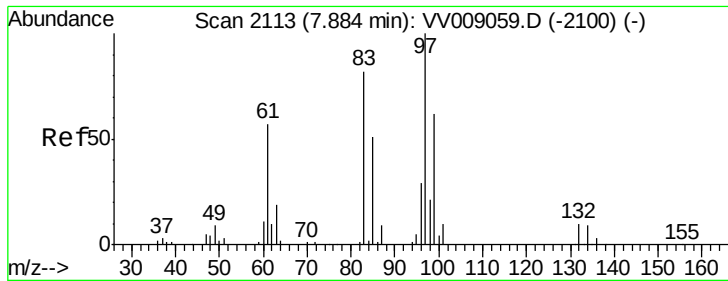
Tgt Ion: 75 Resp: 112777

Ion Ratio Lower Upper

75 100

77 31.2 23.6 43.8

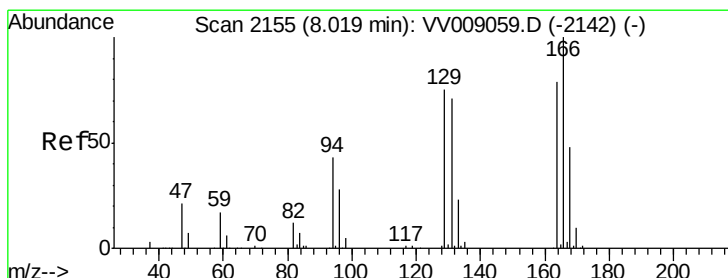
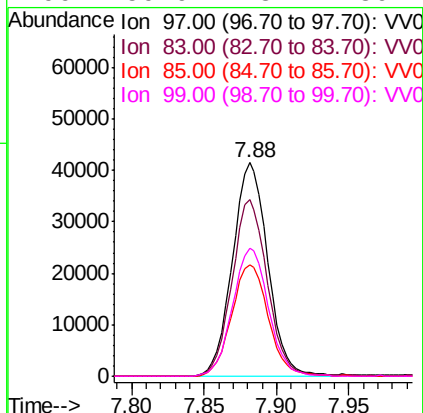
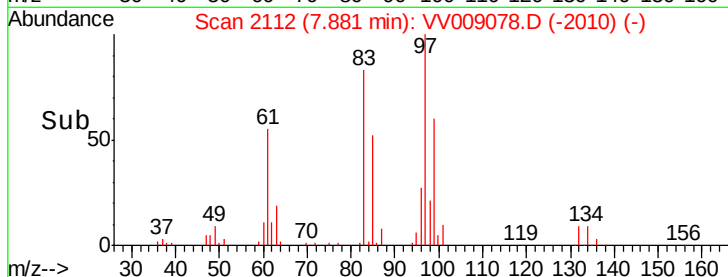
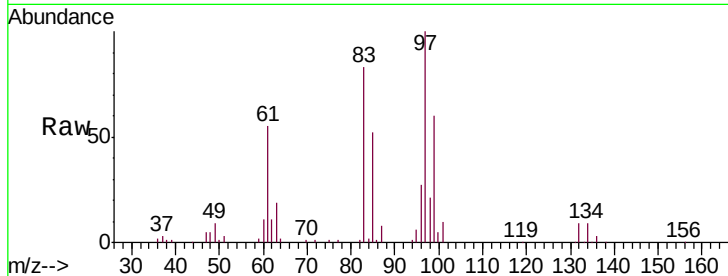




#46
 1,1,2-Trichloroethane
 Concen: 23.847 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

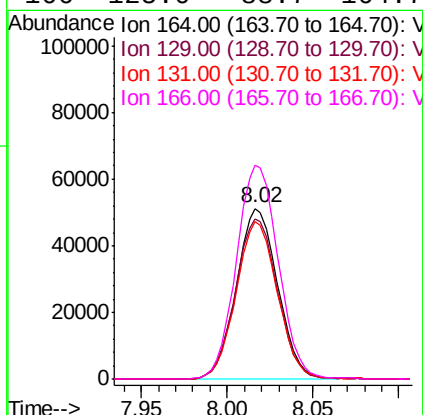
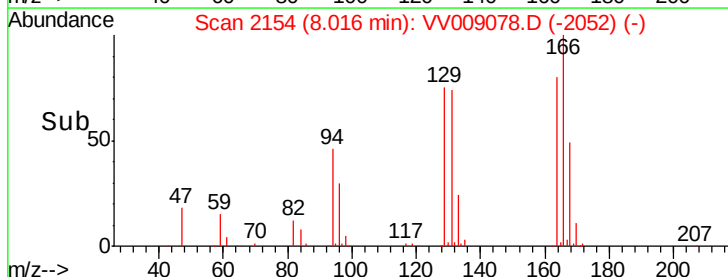
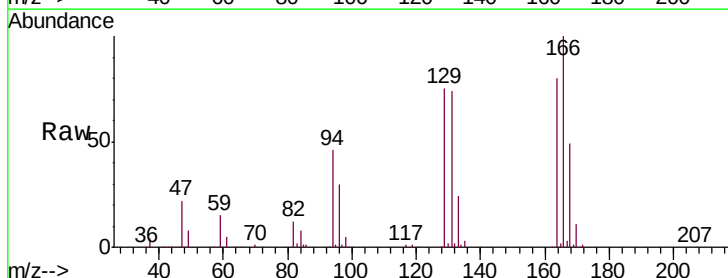
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02570

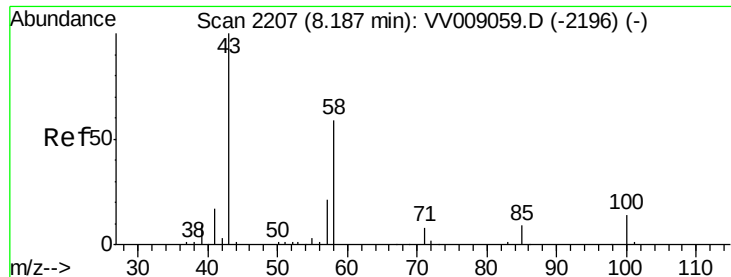
Tgt Ion:	97	Resp:	70411
Ion	Ratio	Lower	Upper
97	100		
83	82.8	56.6	105.2
85	52.4	36.6	68.0
99	59.9	43.2	80.2



#47
 Tetrachloroethene
 Concen: 23.463 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

Tgt Ion:	164	Resp:	84936
Ion	Ratio	Lower	Upper
164	100		
129	94.0	64.6	120.0
131	92.4	64.5	119.7
166	125.0	88.7	164.7

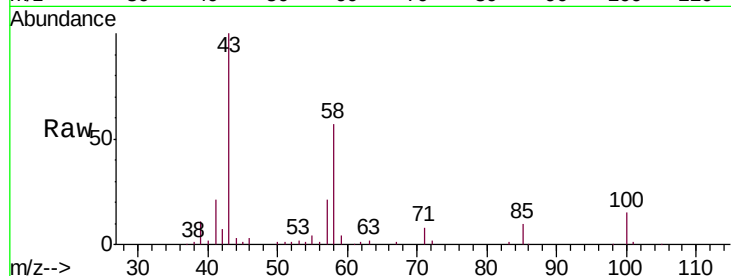




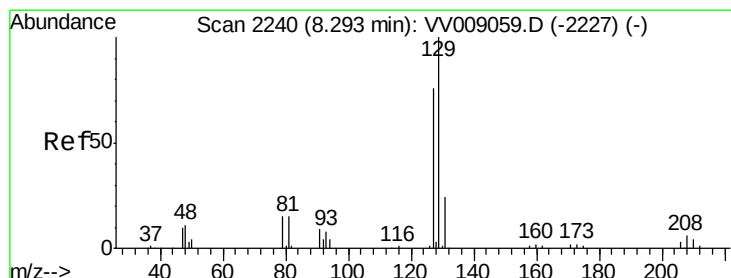
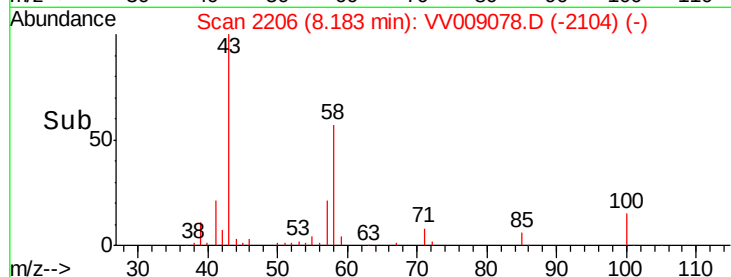
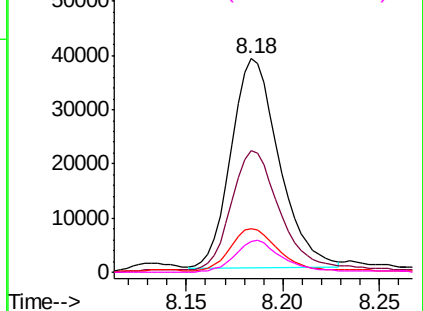
#49
2-Hexanone
Concen: 33.574 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV009078.D
Acq: 20 Dec 2018 11:08

Instrument :
MSVOA_V
ClientSampleId :
VSTD02570

Tgt Ion:	43	Resp:	66527
Ion	Ratio	Lower	Upper
43	100		
58	59.3	43.9	65.9
57	21.5	15.7	23.5
100	14.9	11.0	16.4

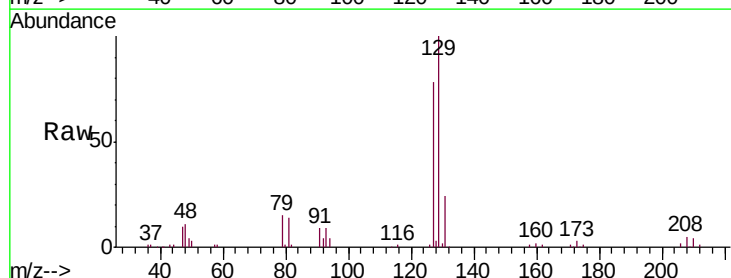


Abundance Ion 43.00 (42.70 to 43.70): VV009059.D (-2196) (-)
Ion 58.00 (57.70 to 58.70): VV009059.D (-2196) (-)
Ion 57.00 (56.70 to 57.70): VV009059.D (-2196) (-)
Ion 100.00 (99.70 to 100.70): VV009059.D (-2196) (-)

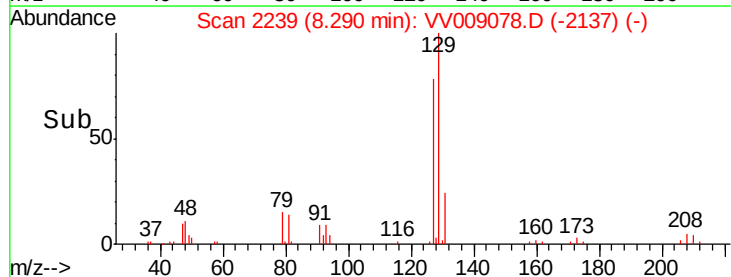
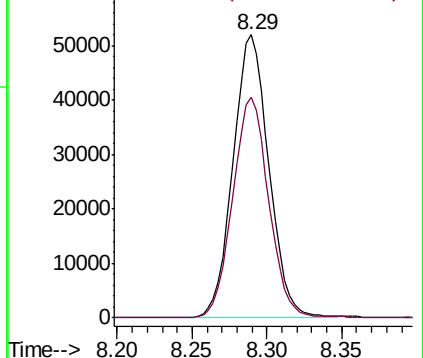


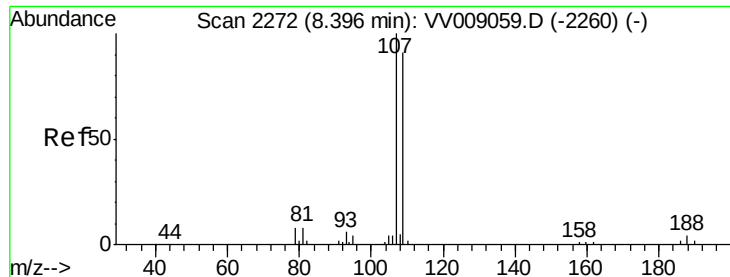
#50
Dibromochloromethane
Concen: 25.618 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009078.D
Acq: 20 Dec 2018 11:08

Tgt Ion:	129	Resp:	86706
Ion	Ratio	Lower	Upper
129	100		
127	77.9	53.5	99.3



Abundance Ion 129.00 (128.70 to 129.70): VV009059.D (-2227) (-)
Ion 127.00 (126.70 to 127.70): VV009059.D (-2227) (-)





#51

1,2-Dibromoethane

Concen: 23.036 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02570

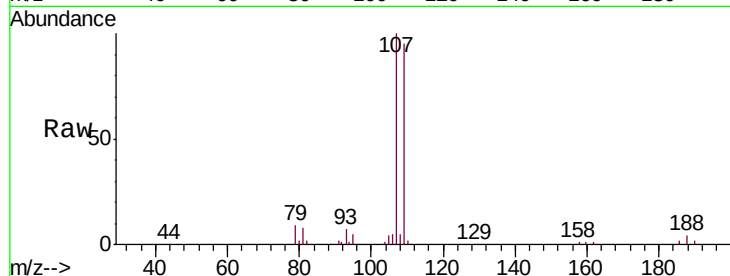
Tgt Ion:107 Resp: 68302

Ion Ratio Lower Upper

107 100

109 94.6 65.8 122.2

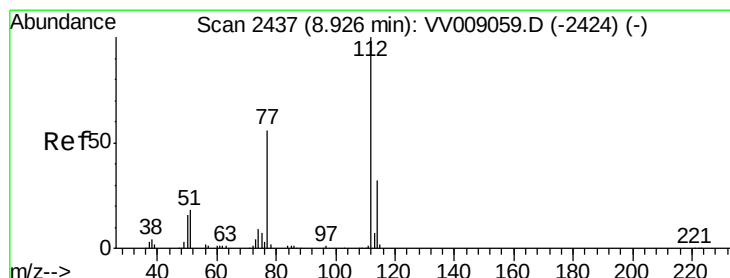
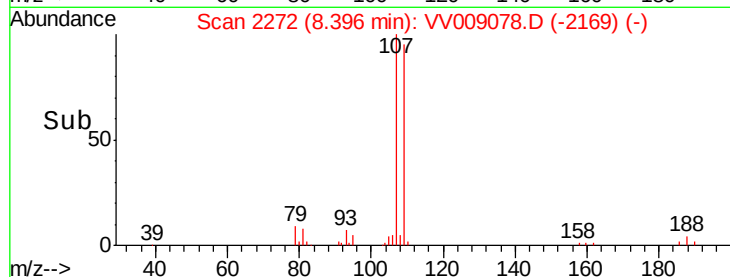
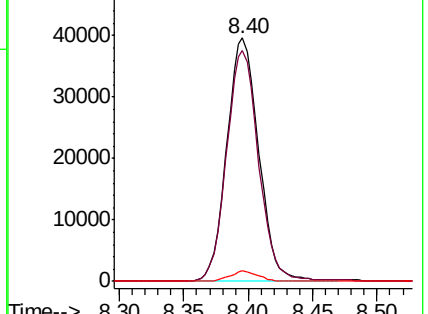
188 4.3 3.0 4.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 24.781 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

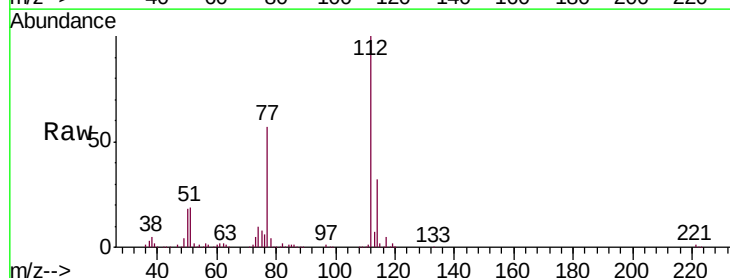
Tgt Ion:112 Resp: 249856

Ion Ratio Lower Upper

112 100

77 57.2 44.6 66.8

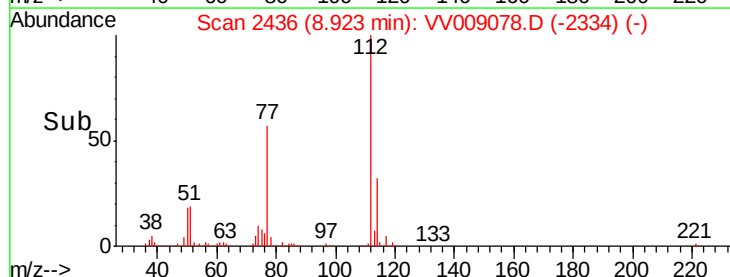
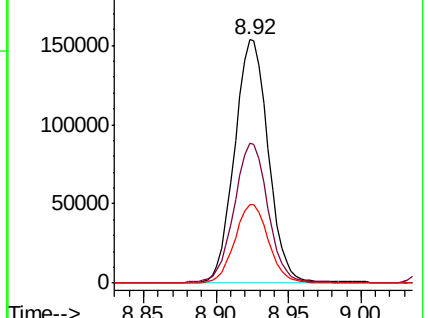
114 32.3 22.6 42.0

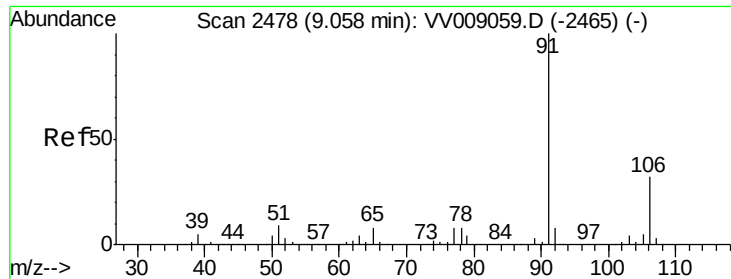


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 25.407 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

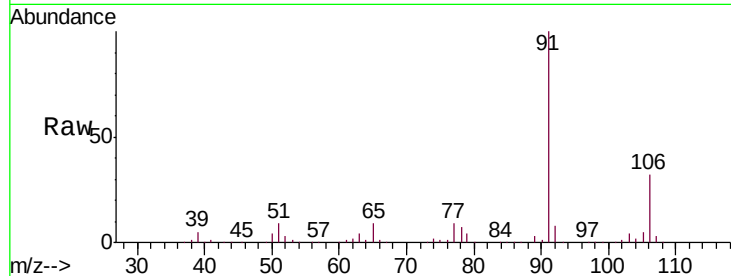
VSTD02570

Tgt Ion: 91 Resp: 426799

Ion Ratio Lower Upper

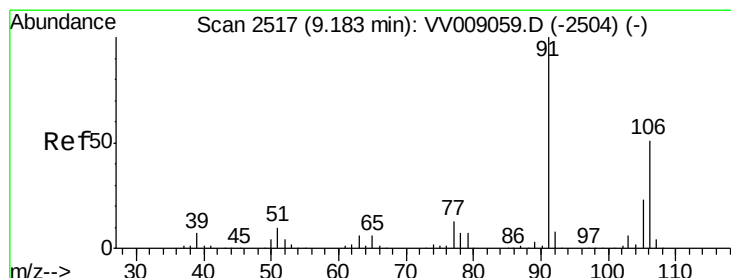
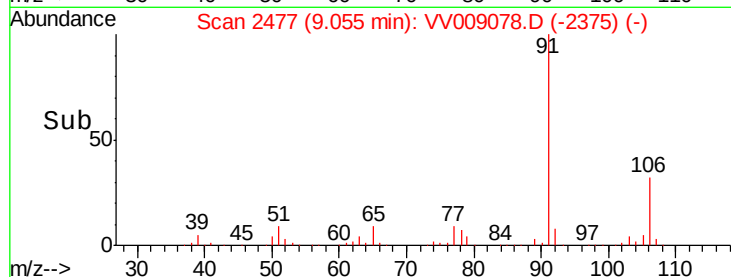
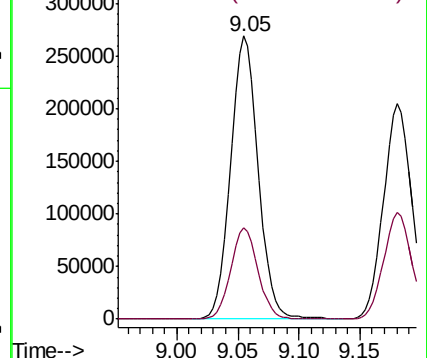
91 100

106 32.3 21.3 39.5



Abundance Ion 91.00 (90.70 to 91.70): VV009059.D (-2465) (-)

Ion 106.00 (105.70 to 106.70): VV009059.D (-2465) (-)



#54

m,p-Xylene

Concen: 25.704 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV009078.D

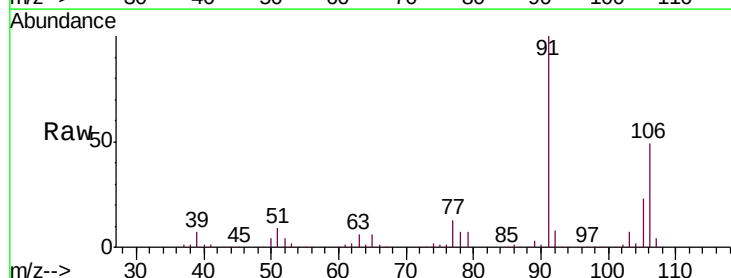
Acq: 20 Dec 2018 11:08

Tgt Ion: 106 Resp: 163492

Ion Ratio Lower Upper

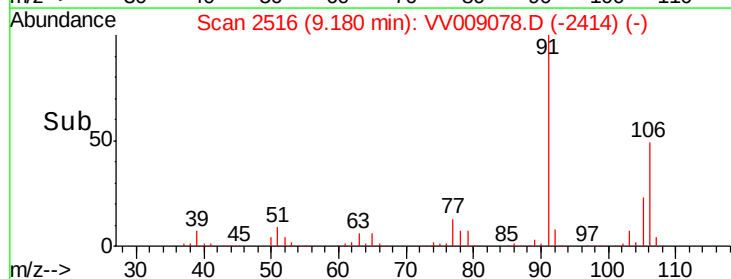
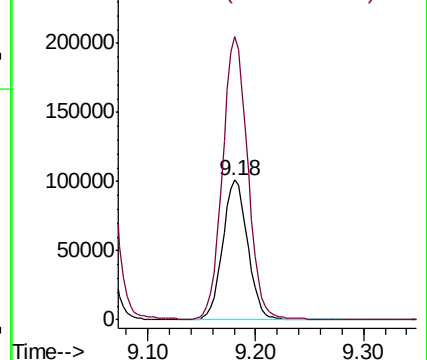
106 100

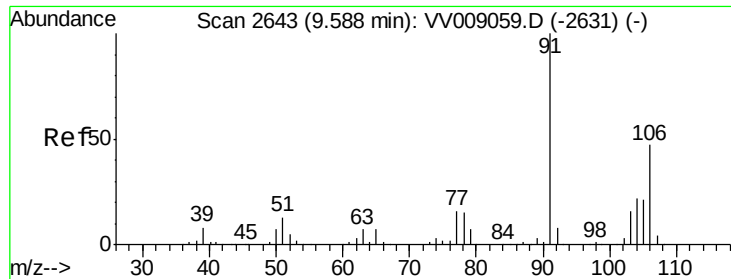
91 202.6 141.3 262.3



Abundance Ion 106.00 (105.70 to 106.70): VV009059.D (-2504) (-)

Ion 91.00 (90.70 to 91.70): VV009059.D (-2504) (-)





#55

o-xylene

Concen: 25.956 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

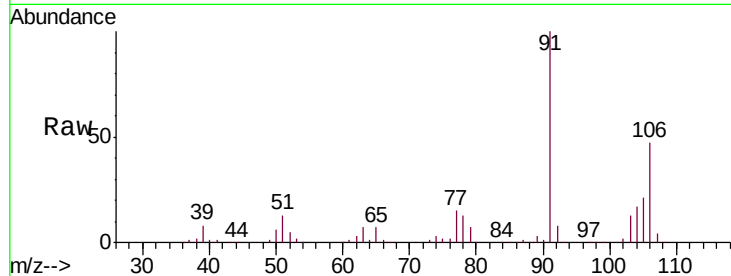
VSTD02570

Tgt Ion:106 Resp: 153389

Ion Ratio Lower Upper

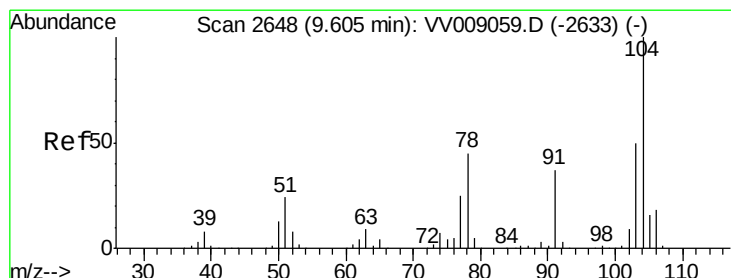
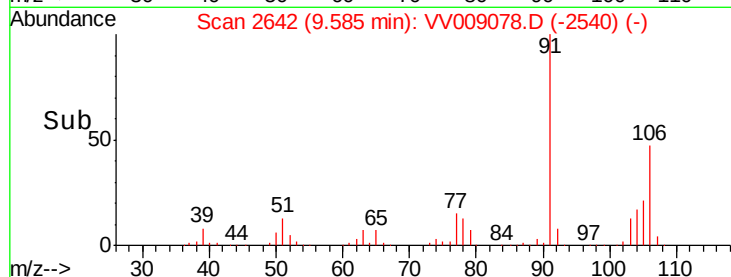
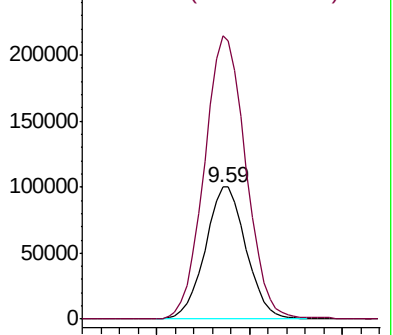
106 100

91 214.2 148.3 275.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 26.809 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009078.D

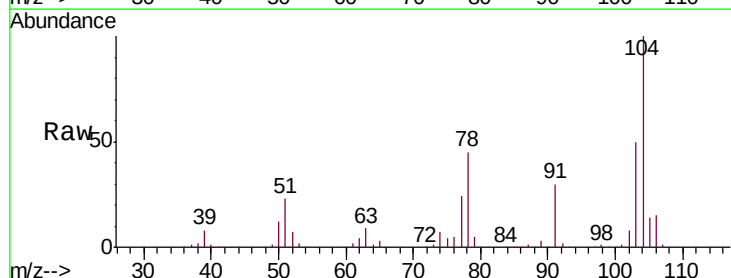
Acq: 20 Dec 2018 11:08

Tgt Ion:104 Resp: 255576

Ion Ratio Lower Upper

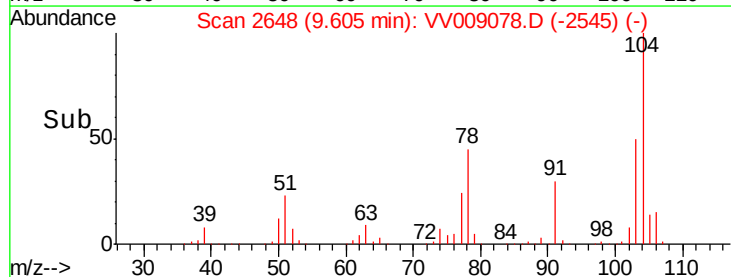
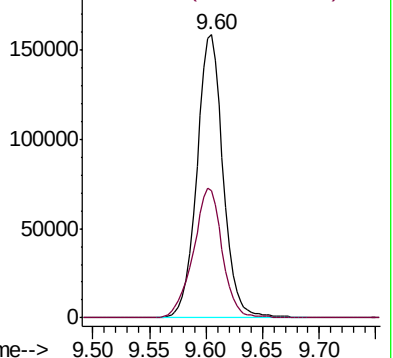
104 100

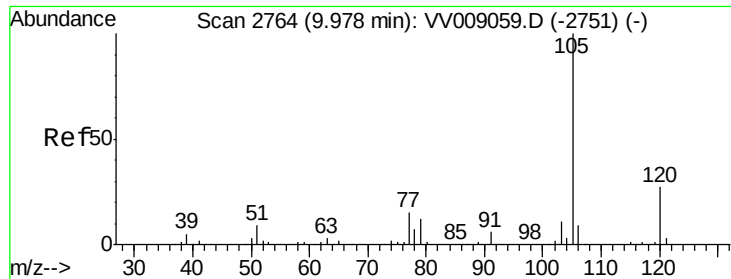
78 44.8 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 26.348 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02570

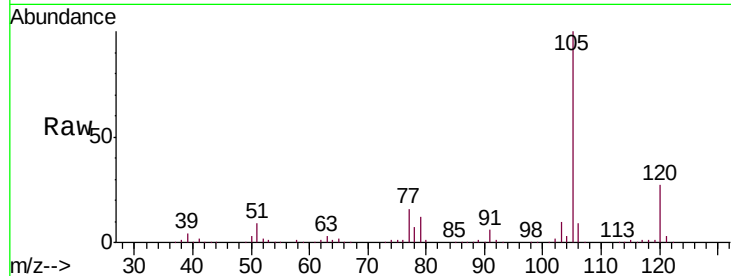
Tgt Ion: 105 Resp: 423199

Ion Ratio Lower Upper

105 100

120 27.1 21.7 32.5

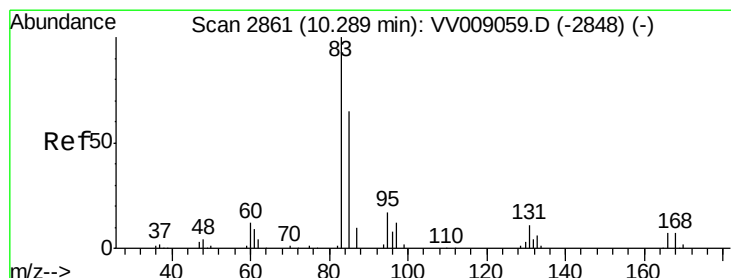
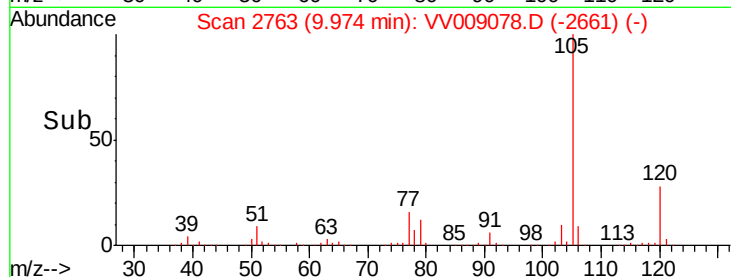
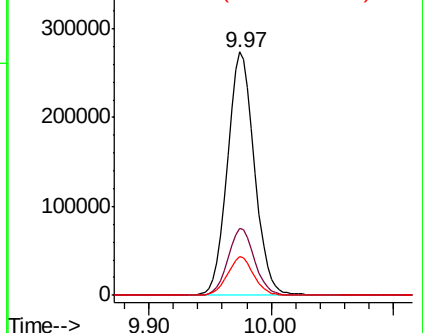
77 15.6 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 21.083 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

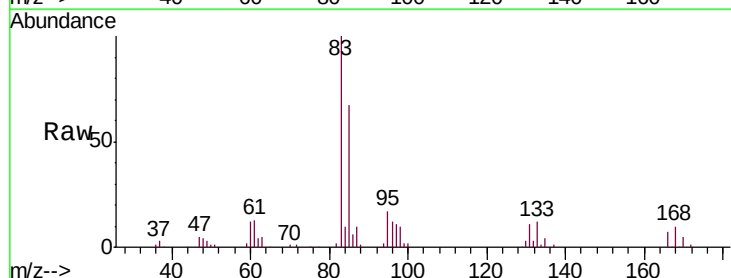
Tgt Ion: 83 Resp: 67297

Ion Ratio Lower Upper

83 100

85 67.5 44.3 82.3

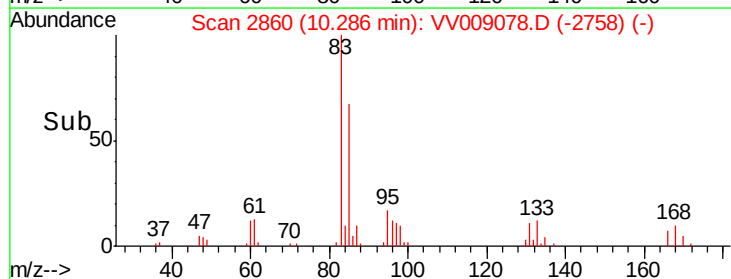
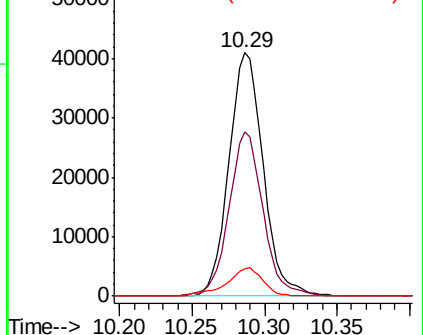
131 11.5 7.8 11.8

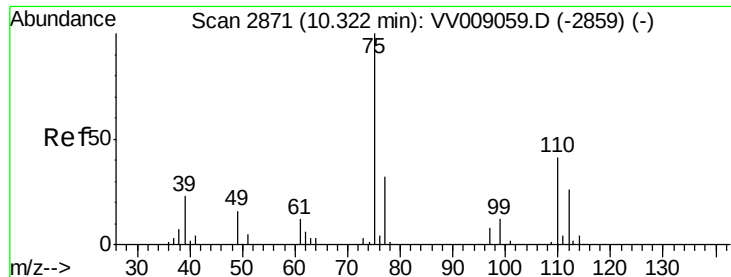


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

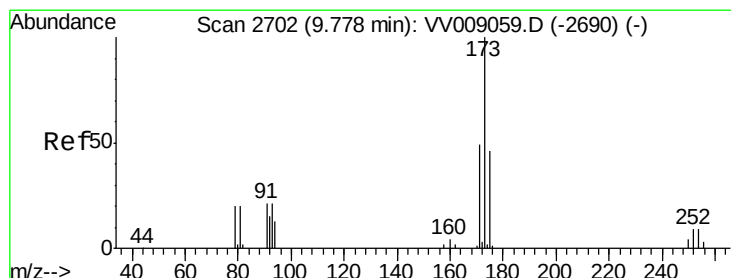
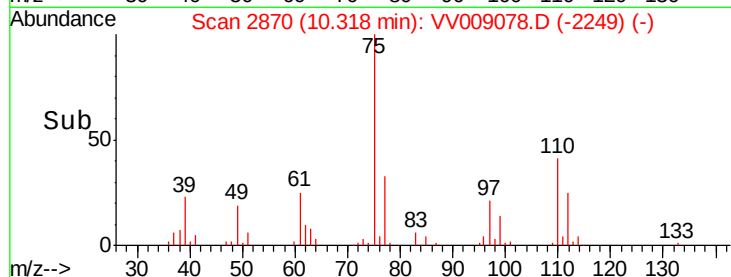
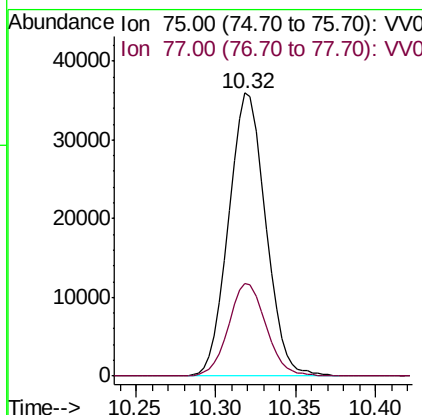
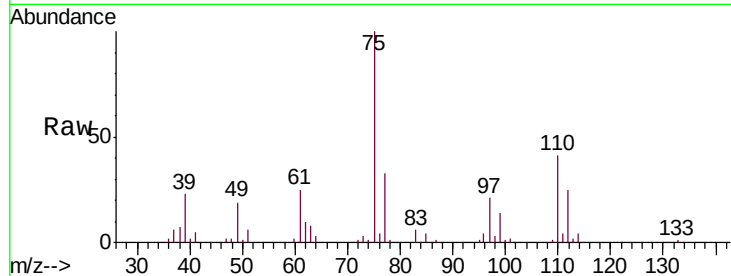




#59
1,2,3-Trichloropropane
Concen: 20.575 ug/L
RT: 10.32 min Scan# 2870
Delta R.T. -0.00 min
Lab File: VV009078.D
Acq: 20 Dec 2018 11:08

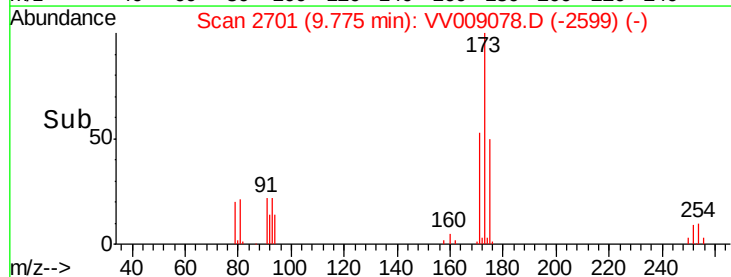
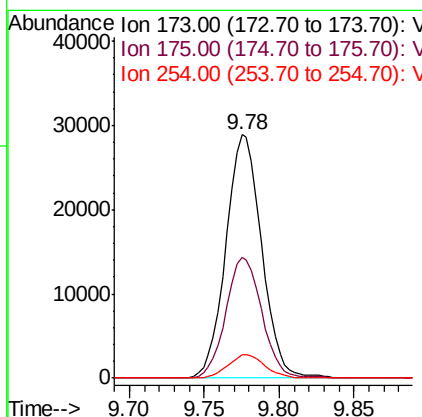
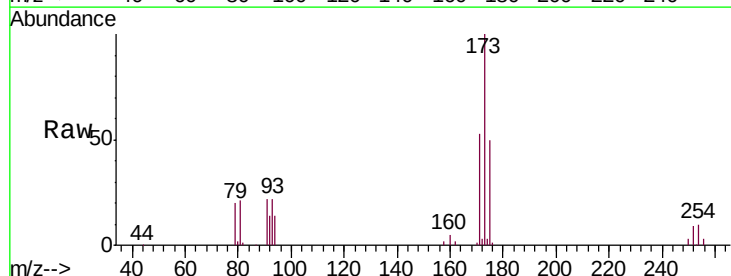
Instrument :
MSVOA_V
ClientSampleId :
VSTD02570

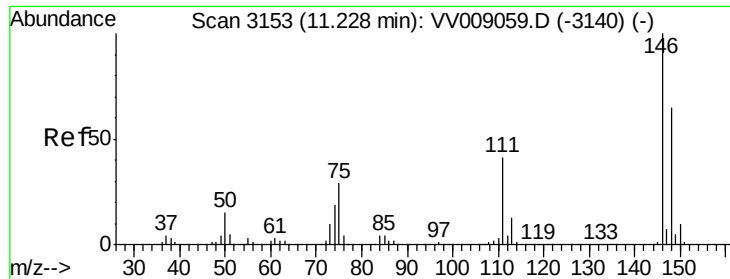
Tgt Ion: 75 Resp: 56826
Ion Ratio Lower Upper
75 100
77 33.1 25.6 38.4



#62
Bromoform
Concen: 22.597 ug/L
RT: 9.78 min Scan# 2701
Delta R.T. -0.00 min
Lab File: VV009078.D
Acq: 20 Dec 2018 11:08

Tgt Ion: 173 Resp: 48166
Ion Ratio Lower Upper
173 100
175 49.6 37.7 56.5
254 9.8 7.1 10.7

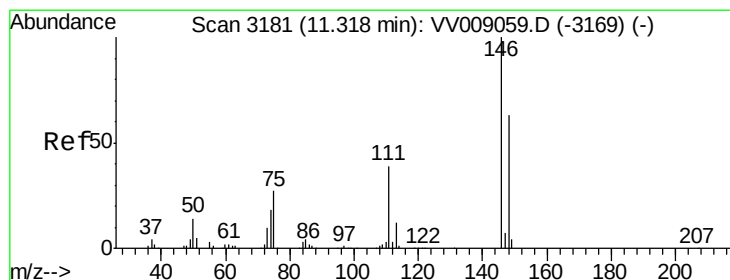
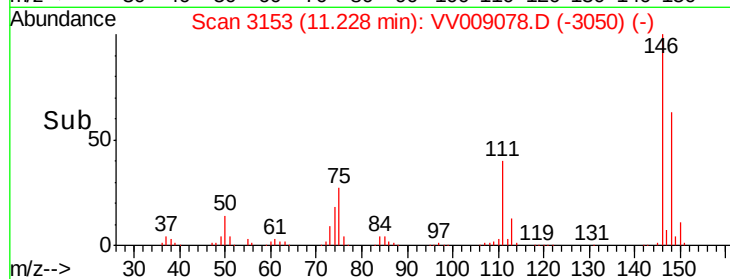
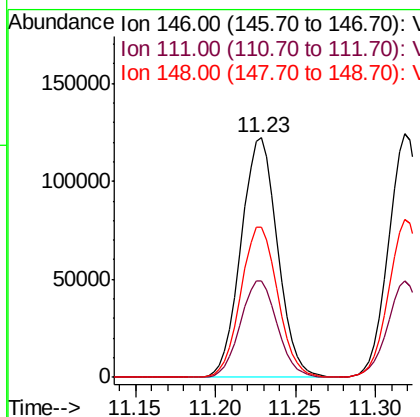
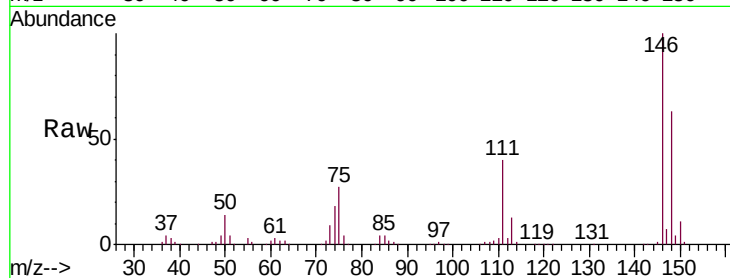




#63
 1,3-Dichlorobenzene
 Concen: 25.029 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

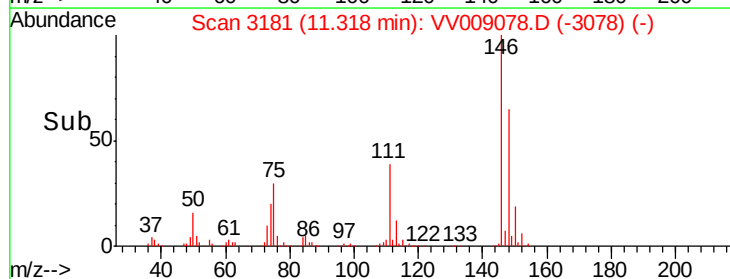
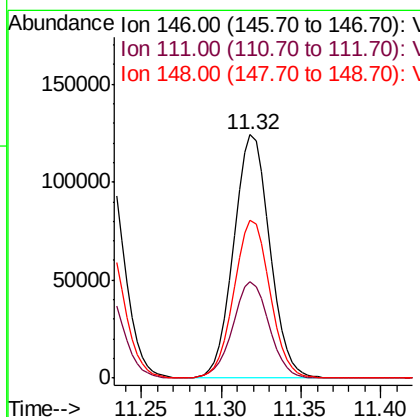
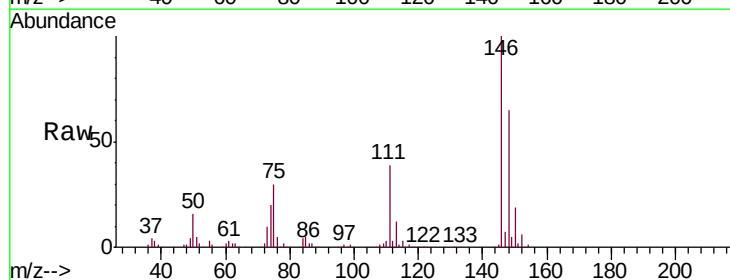
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02570

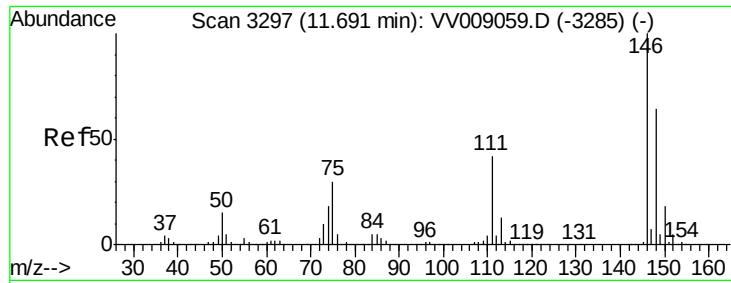
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	27.5	51.1
148	62.6	44.0	81.8



#64
 1,4-Dichlorobenzene
 Concen: 24.193 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	26.8	49.8
148	64.6	45.8	85.0





#65

1,2-Dichlorobenzene

Concen: 24.620 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleID :

VSTD02570

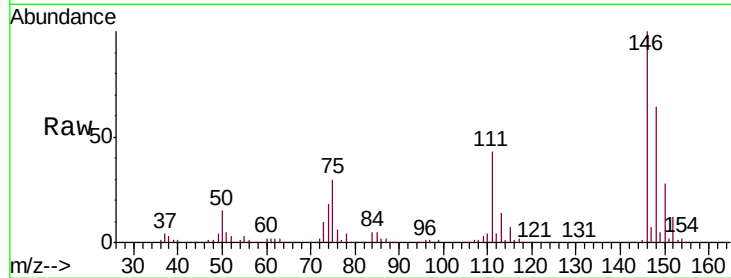
Tgt Ion: 146 Resp: 172661

Ion Ratio Lower Upper

146 100

111 42.5 34.2 51.4

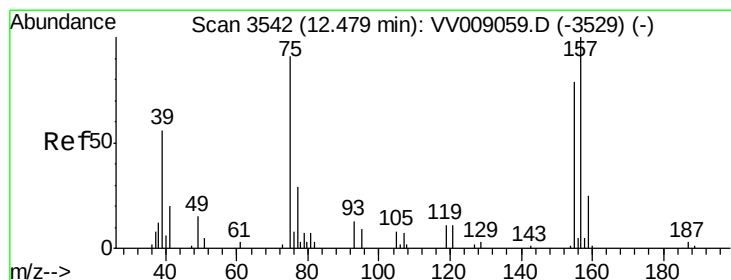
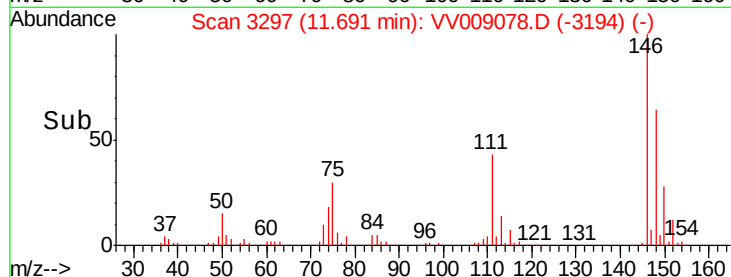
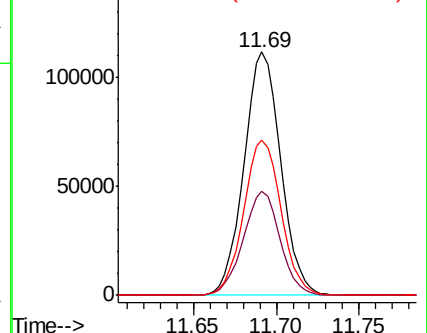
148 63.8 51.0 76.6



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: 17.876 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. 0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

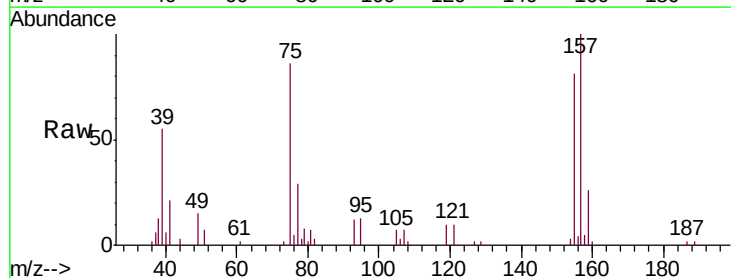
Tgt Ion: 75 Resp: 10271

Ion Ratio Lower Upper

75 100

157 116.7 95.8 143.6

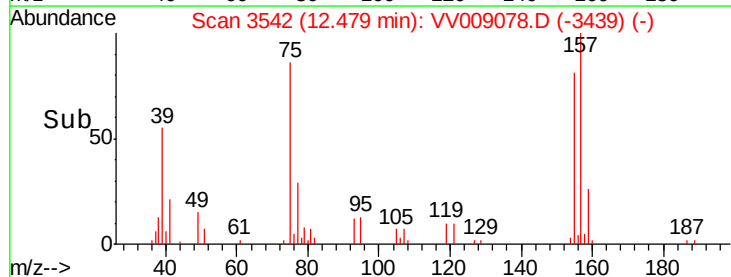
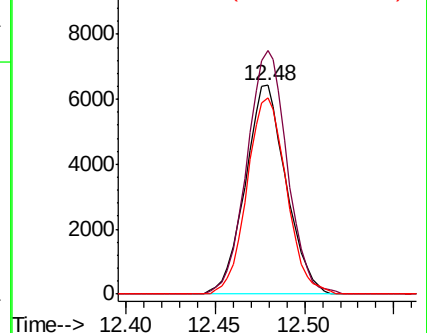
155 94.2 71.4 107.2

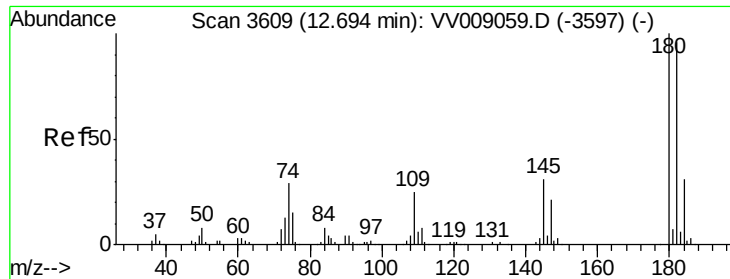


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

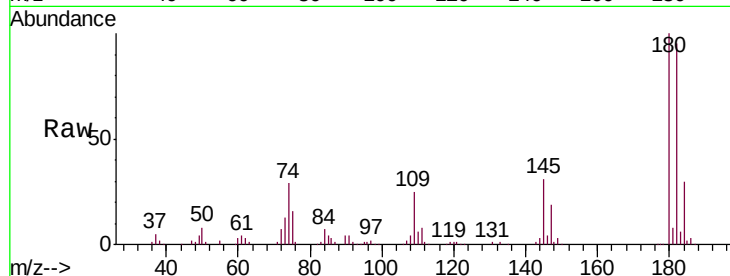




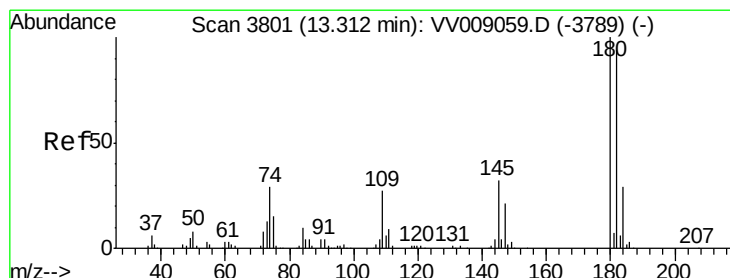
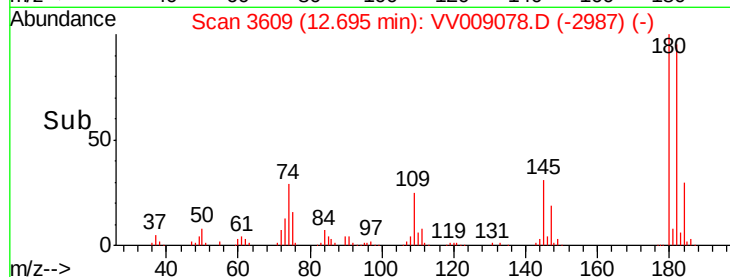
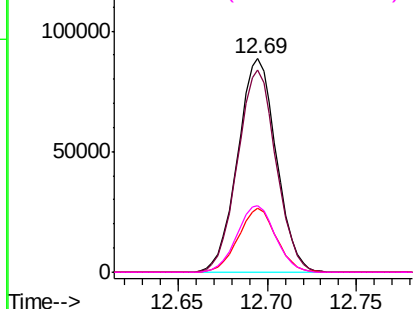
#67
 1,3,5-Trichlorobenzene
 Concen: 24.380 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02570

Tgt Ion:180 Resp: 133962
 Ion Ratio Lower Upper
 180 100
 182 94.6 75.9 113.9
 184 29.5 23.8 35.6
 145 31.1 24.2 36.4

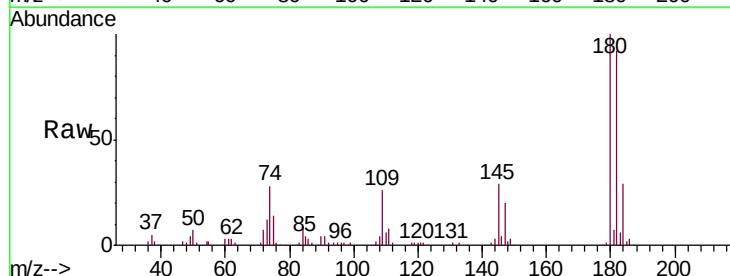


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

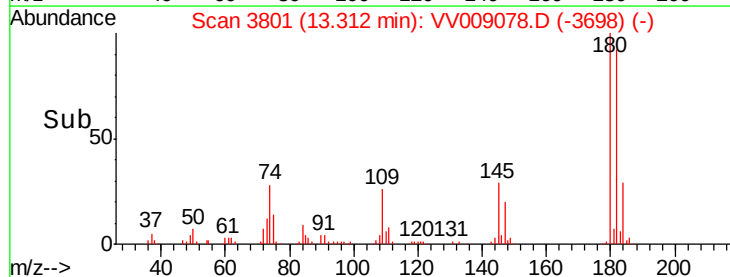
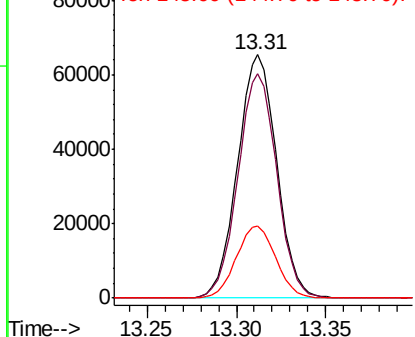


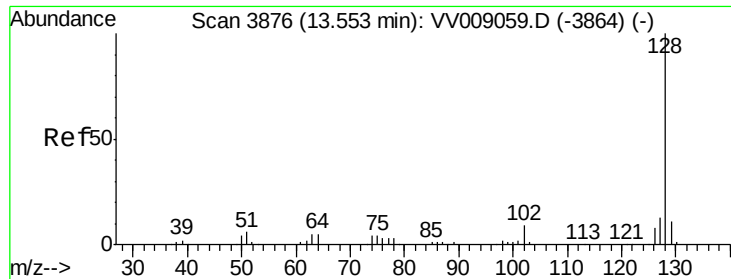
#68
 1,2,4-trichlorobenzene
 Concen: 25.848 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009078.D
 Acq: 20 Dec 2018 11:08

Tgt Ion:180 Resp: 99517
 Ion Ratio Lower Upper
 180 100
 182 91.7 77.4 116.0
 145 29.8 25.6 38.4



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: 21.341 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

Instrument :

MSVOA_V

ClientSampleId :

VSTD02570

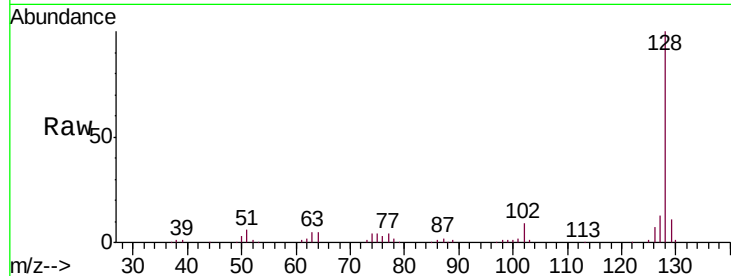
Tgt Ion:128 Resp: 141522

Ion Ratio Lower Upper

128 100

129 10.9 8.6 13.0

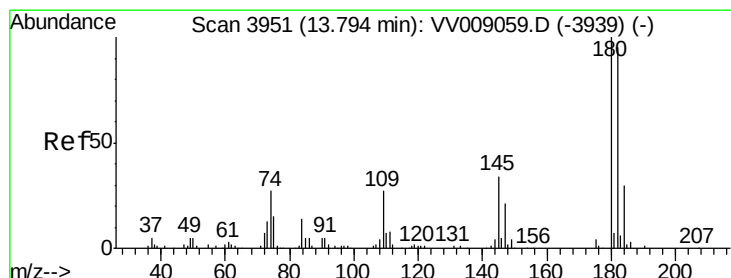
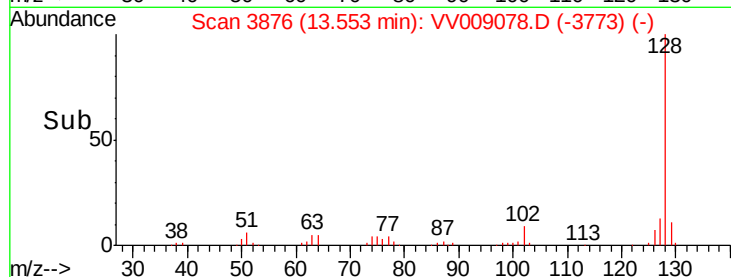
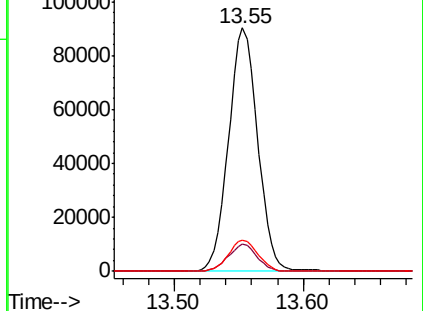
127 12.9 10.0 15.0



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: 24.273 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009078.D

Acq: 20 Dec 2018 11:08

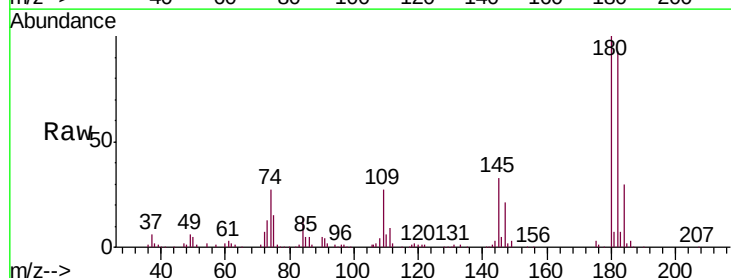
Tgt Ion:180 Resp: 86331

Ion Ratio Lower Upper

180 100

182 94.0 76.1 114.1

145 33.1 26.7 40.1



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

