

Data File : VV010848.D
Acq On : 13 May 2019 19:42
Operator : SY/MD
Sample : VSTD05004
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

Quant Time: May 13 20:42:10 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM051319S.M
Quant Title : VOC Analysis
QLast Update : Mon May 13 20:37:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	132166	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	141667	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	70783	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	84519	41.16	ug/L	0.00
7) Chloroethane-d5	1.56	69	53043	31.39	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	154067	34.59	ug/L	0.00
20) 2-Butanone-d5	3.94	46	52850	85.78	ug/L	0.00
24) Chloroform-d	4.40	84	188694	52.37	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	107168	47.62	ug/L	0.00
29) Benzene-d6	5.09	84	384254	51.53	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	123045	51.79	ug/L	0.00
37) Toluene-d8	7.36	98	375640	52.61	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	54282	50.11	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	47517	95.57	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	111828	50.08	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	144601	52.75	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	68829	37.602	ug/L	99
3) Chloromethane	1.25	50	76699	34.445	ug/L	97
5) Vinyl chloride	1.32	62	88794	34.343	ug/L	96
6) Bromomethane	1.51	94	22095	17.621	ug/L	96
8) Chloroethane	1.58	64	42215	26.217	ug/L	98
9) Trichlorofluoromethane	1.76	101	123783	31.803	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	74801	33.663	ug/L	98
12) 1,1-Dichloroethene	2.13	96	69581	33.441	ug/L	93
13) Acetone	2.19	43	42543	44.602	ug/L	99
14) Carbon disulfide	2.31	76	210195	41.109	ug/L	99
15) Methyl Acetate	2.46	43	48421	42.494	ug/L	100
16) Methylene chloride	2.53	84	92917	45.468	ug/L	98
17) Methyl tert-butyl Ether	2.81	73	245026	47.029	ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	84953	45.169	ug/L	95
19) 1,1-Dichloroethane	3.23	63	171020	47.100	ug/L	99
21) 2-Butanone	4.02	43	65853	72.846	ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	107532	50.049	ug/L	96
23) Bromochloromethane	4.29	128	48334	50.046	ug/L	97
25) Chloroform	4.42	83	182948	45.737	ug/L	100
27) 1,2-Dichloroethane	5.18	62	127198	43.505	ug/L	98
30) Cyclohexane	4.72	56	128024	36.032	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	142321	40.292	ug/L	98
32) Carbon tetrachloride	4.87	117	124409	40.434	ug/L	98
34) Benzene	5.14	78	392402	47.184	ug/L	100
35) Trichloroethene	5.96	95	101700	43.657	ug/L	98
36) Methylcyclohexane	6.17	83	142737	38.231	ug/L	98
40) 1,2-Dichloropropane	6.22	63	104400	47.190	ug/L	99
41) Bromodichloromethane	6.55	83	139375	45.849	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	168412	48.128	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	155320	83.405	ug/L	99

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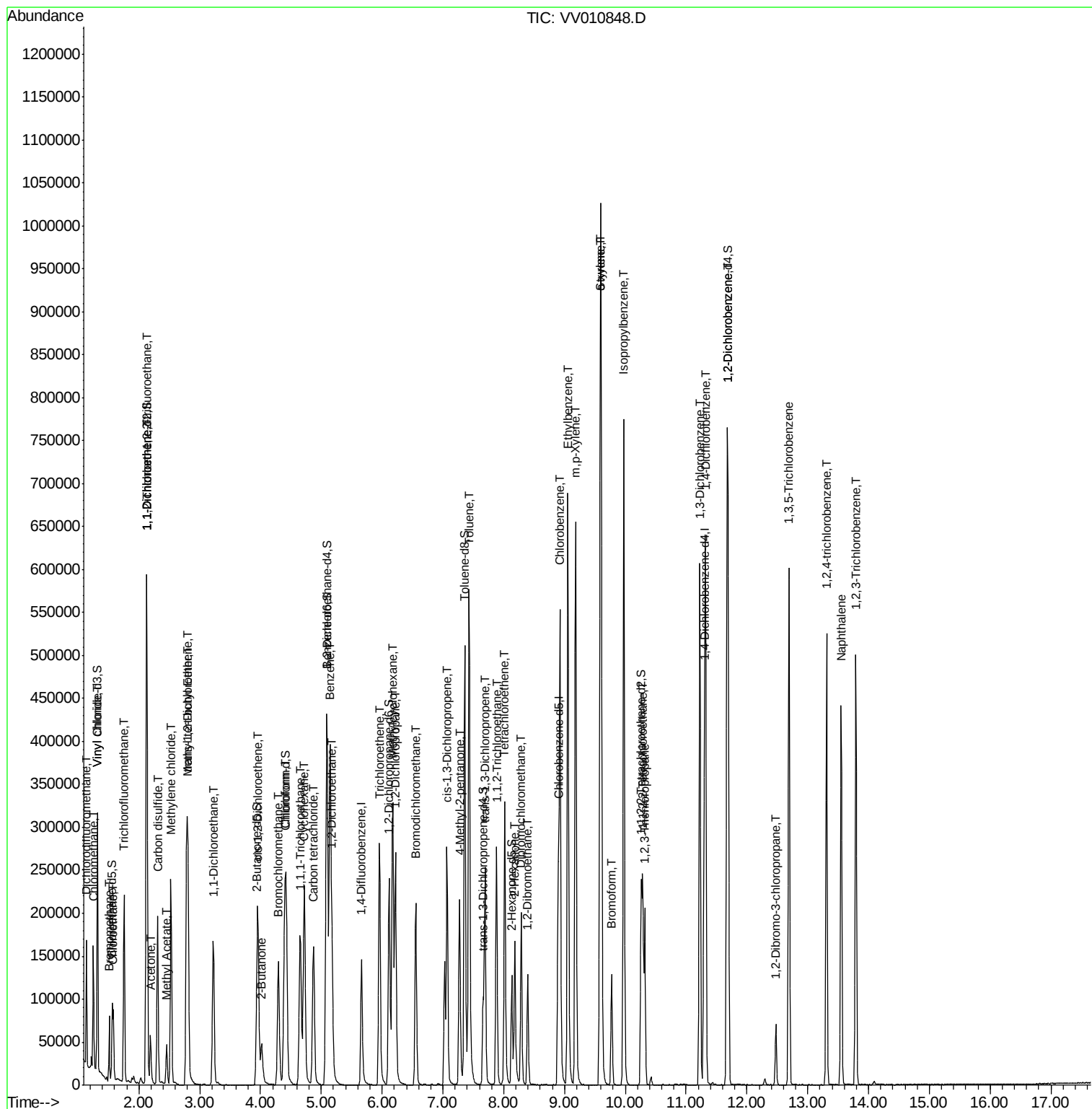
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	450491	47.695	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	138977	47.166	ug/L	98
46) 1,1,2-Trichloroethane	7.88	97	85651	47.127	ug/L	95
47) Tetrachloroethene	8.02	164	74488	44.153	ug/L	96
49) 2-Hexanone	8.18	43	113308	80.029	ug/L	96
50) Dibromochloromethane	8.29	129	100629	48.148	ug/L	98
51) 1,2-Dibromoethane	8.40	107	82317	46.894	ug/L	99
52) Chlorobenzene	8.93	112	302849	49.078	ug/L	100
53) Ethylbenzene	9.05	91	508149	46.398	ug/L	99
54) m,p-Xylene	9.18	106	200202	48.929	ug/L	99
55) o-xylene	9.59	106	201297	49.600	ug/L	98
56) Styrene	9.60	104	355737	51.824	ug/L	99
57) Isopropylbenzene	9.97	105	506165	46.745	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	114982	48.289	ug/L	96
59) 1,2,3-Trichloropropane	10.32	75	82755	44.531	ug/L	97
62) Bromoform	9.77	173	55343	45.916	ug/L	99
63) 1,3-Dichlorobenzene	11.22	146	241386	48.991	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	243302	48.342	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	237902	49.713	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	17382	39.144	ug/L	89
67) 1,3,5-Trichlorobenzene	12.69	180	171734	48.386	ug/L	100
68) 1,2,4-trichlorobenzene	13.31	180	148373	54.029	ug/L	100
69) Naphthalene	13.55	128	328155	55.826	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	140253	54.446	ug/L	99

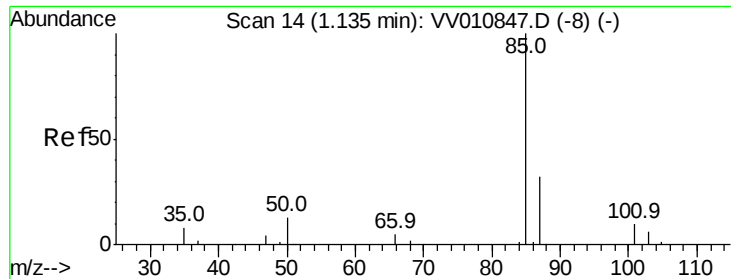
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 37.602 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

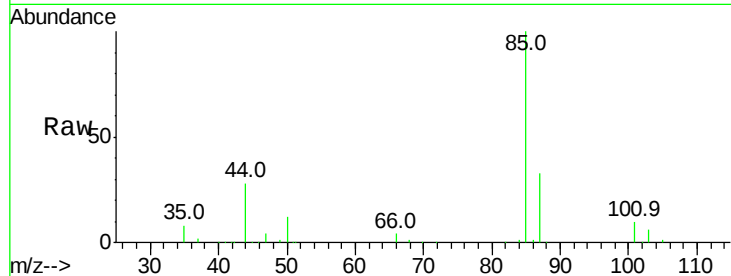
VSTD05065

Tgt Ion: 85 Resp: 68829

Ion Ratio Lower Upper

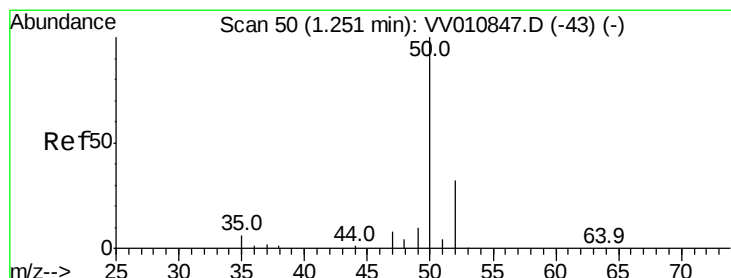
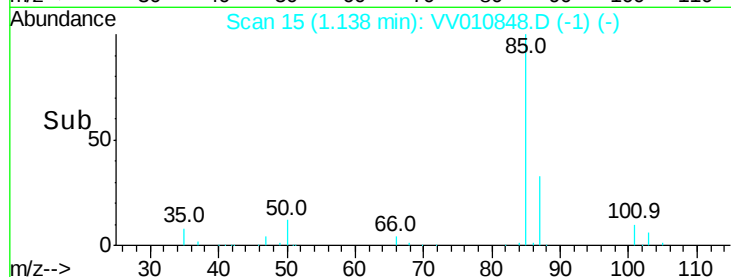
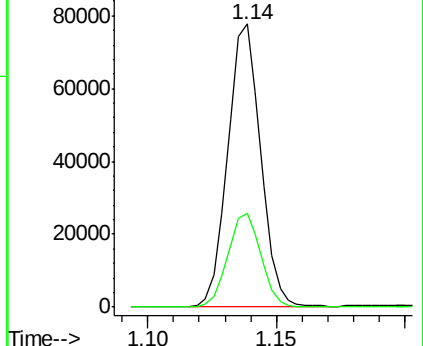
85 100

87 33.4 23.0 42.6



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 34.445 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV010848.D

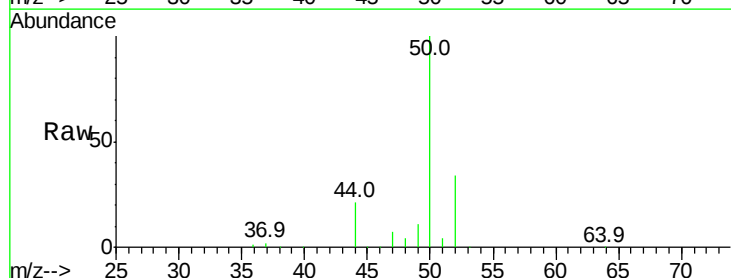
Acq: 13 May 2019 19:42

Tgt Ion: 50 Resp: 76699

Ion Ratio Lower Upper

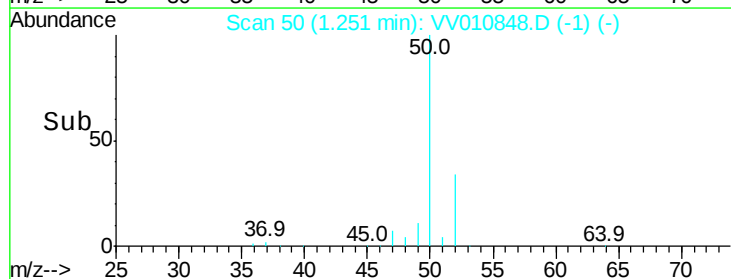
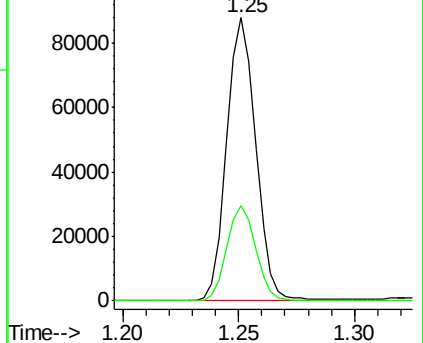
50 100

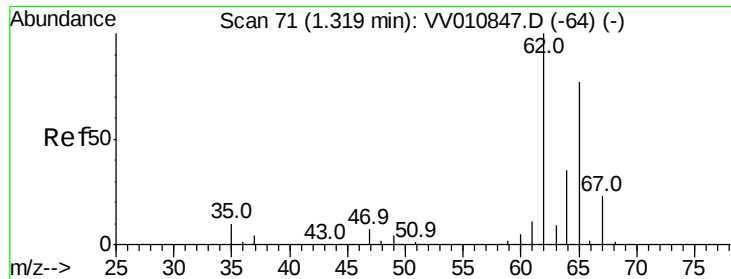
52 33.7 22.5 41.7



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 34.343 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

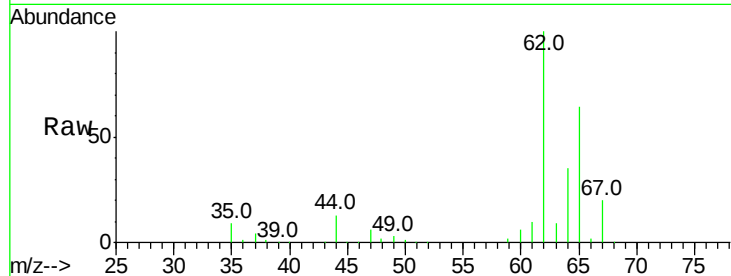
Instrument :
MSVOA_V
ClientSampled :
VSTD05065

Tgt Ion: 62 Resp: 88794

Ion Ratio Lower Upper

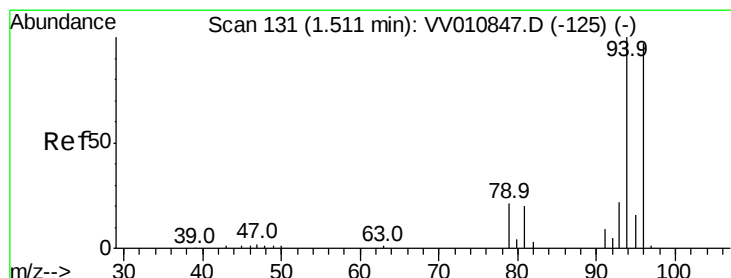
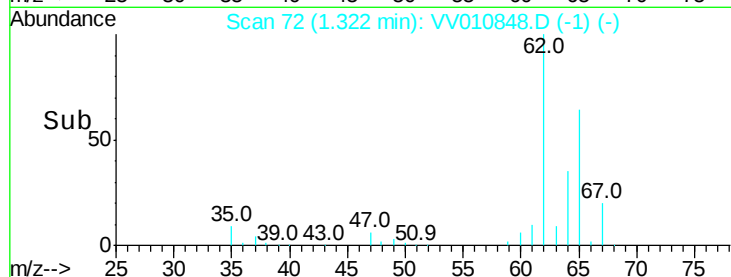
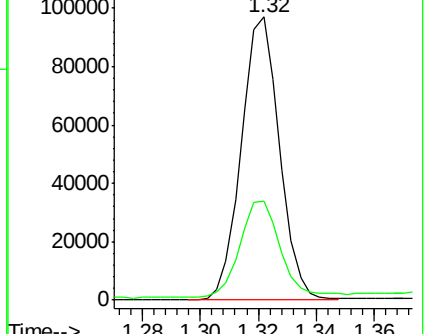
62 100

64 35.1 26.1 48.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 17.621 ug/L

RT: 1.51 min Scan# 131

Delta R.T. 0.00 min

Lab File: VV010848.D

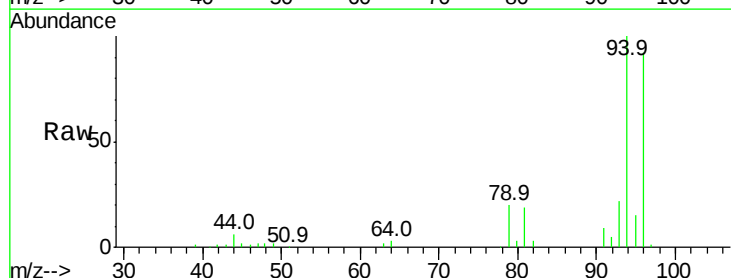
Acq: 13 May 2019 19:42

Tgt Ion: 94 Resp: 22095

Ion Ratio Lower Upper

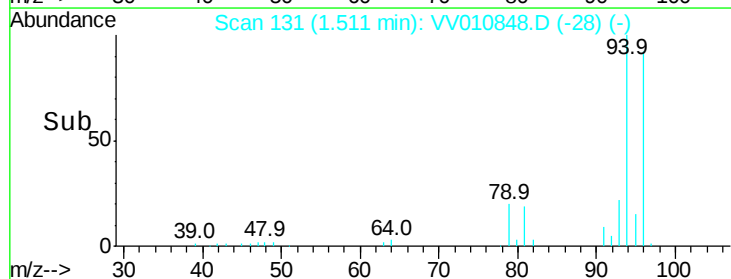
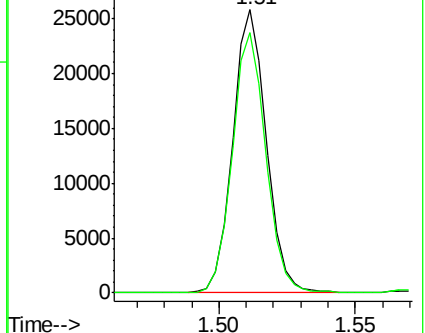
94 100

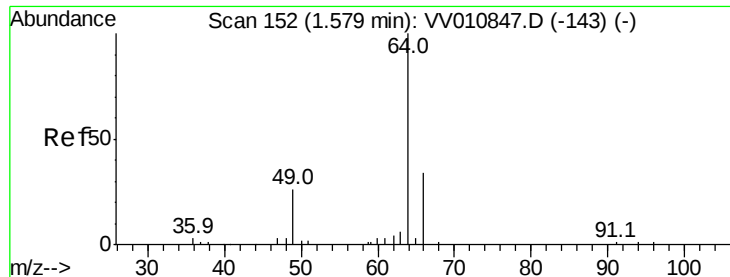
96 91.9 9.6 181.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 26.217 ug/L

RT: 1.58 min Scan# 152

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

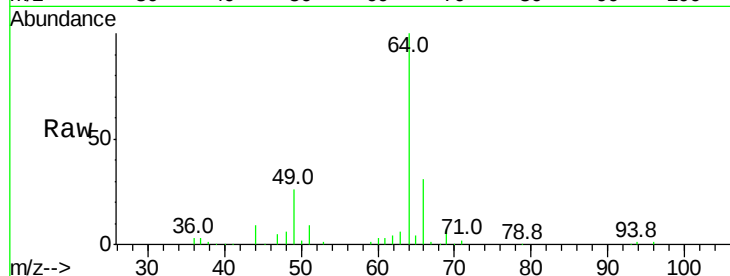
VSTD05065

Tgt Ion: 64 Resp: 42215

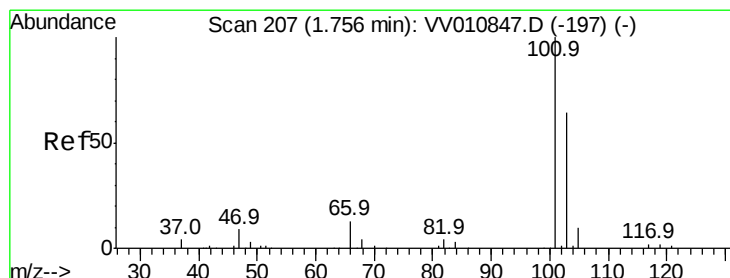
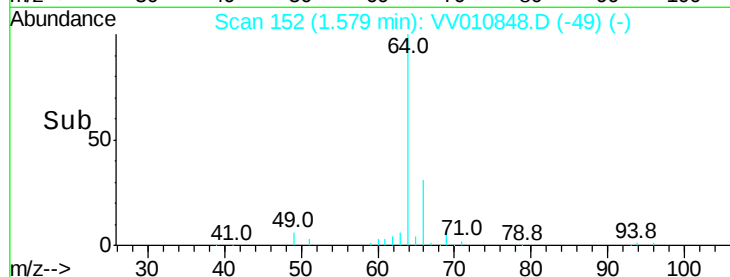
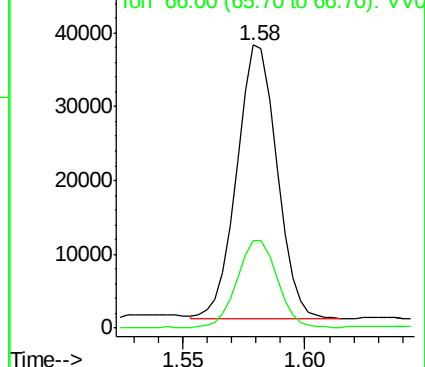
Ion Ratio Lower Upper

64 100

66 30.9 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VV010847.D (-143) (-)



#9

Trichlorofluoromethane

Concen: 31.803 ug/L

RT: 1.76 min Scan# 207

Delta R.T. 0.00 min

Lab File: VV010848.D

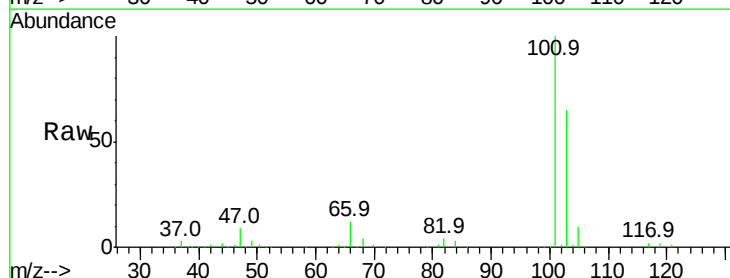
Acq: 13 May 2019 19:42

Tgt Ion: 101 Resp: 123783

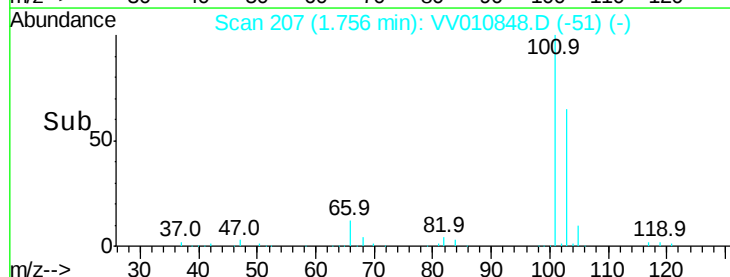
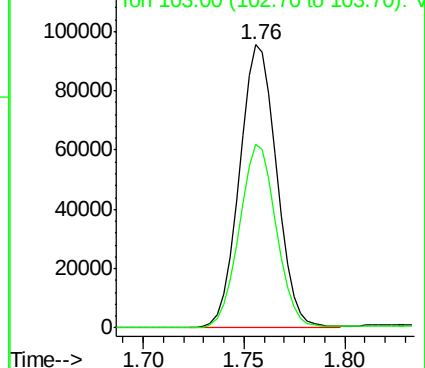
Ion Ratio Lower Upper

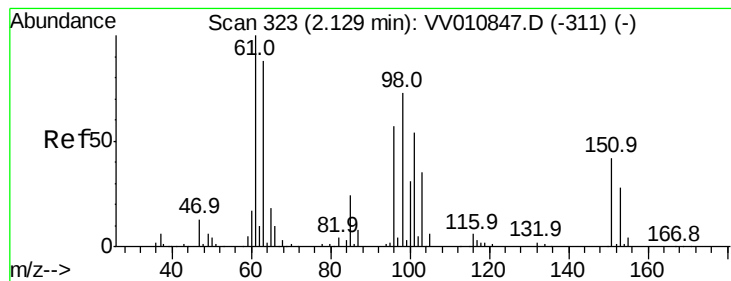
101 100

103 64.4 45.4 84.4



Abundance Ion 101.00 (100.70 to 101.70): VV010847.D (-197) (-)





#11

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

Concen: 33.663 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

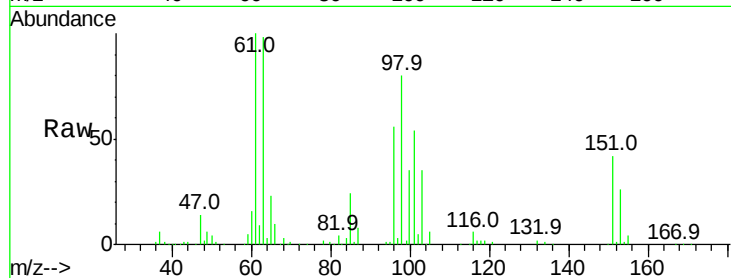
Tgt Ion: 101 Resp: 74801

Ion Ratio Lower Upper

101 100

85 43.4 35.7 53.5

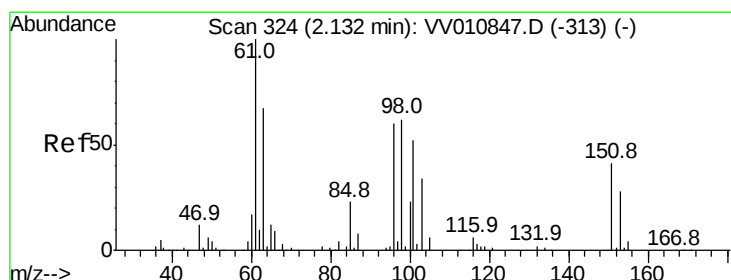
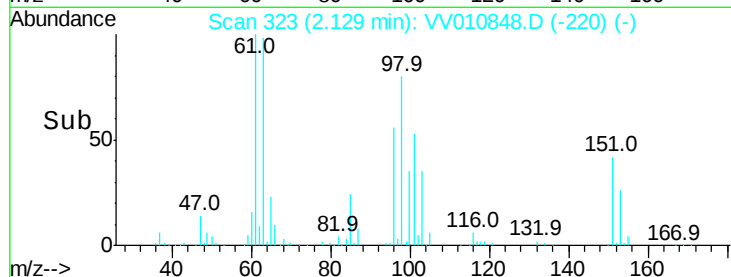
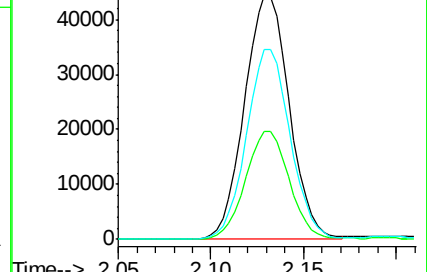
151 76.1 62.2 93.2



Abundance Ion 101.00 (100.70 to 101.70): VV010847.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV010847.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV010847.D (-311) (-)



#12

1,1-Dichloroethene

Concen: 33.441 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

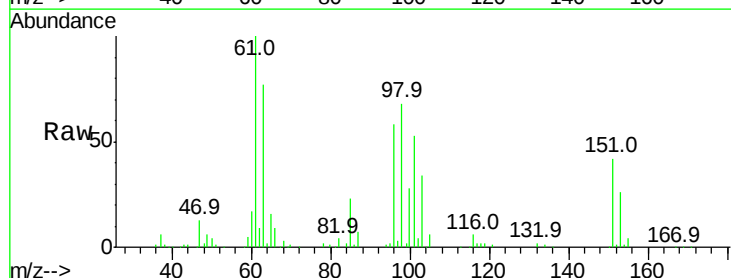
Tgt Ion: 96 Resp: 69581

Ion Ratio Lower Upper

96 100

61 171.3 117.5 218.3

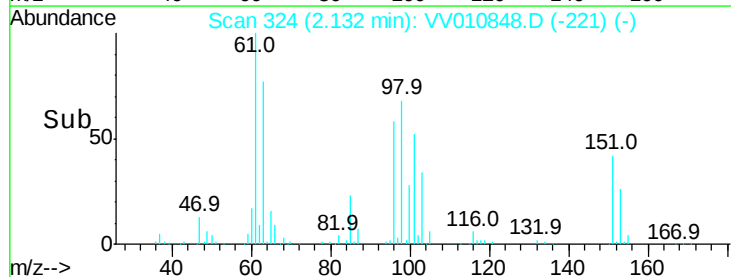
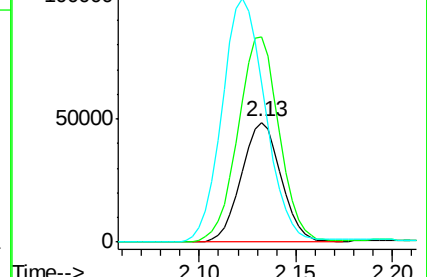
63 132.4 82.8 153.8

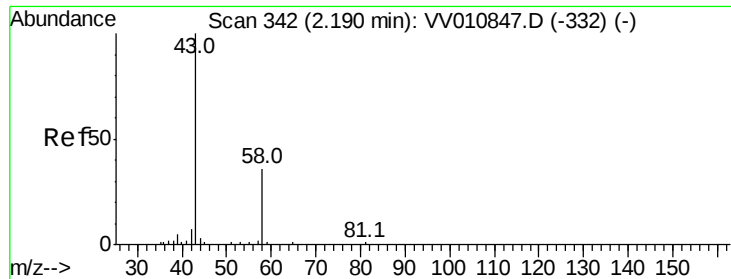


Abundance Ion 96.00 (95.70 to 96.70): VV010847.D (-313) (-)

Ion 61.00 (60.70 to 61.70): VV010847.D (-313) (-)

Ion 63.00 (62.70 to 63.70): VV010847.D (-313) (-)





#13

Acetone

Concen: 44.602 ug/L

RT: 2.19 min Scan# 342

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

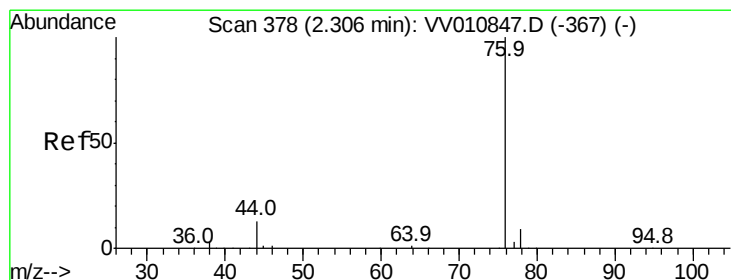
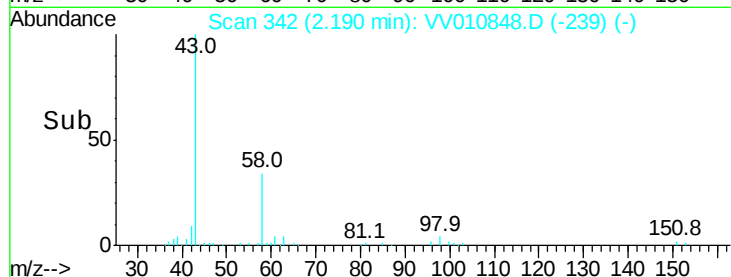
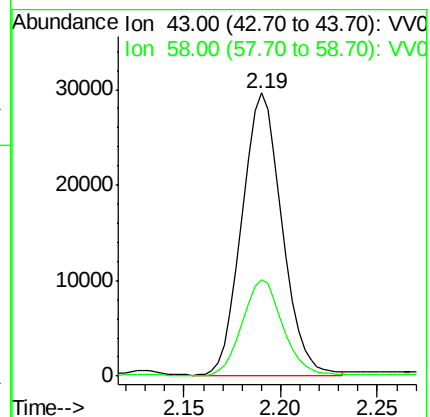
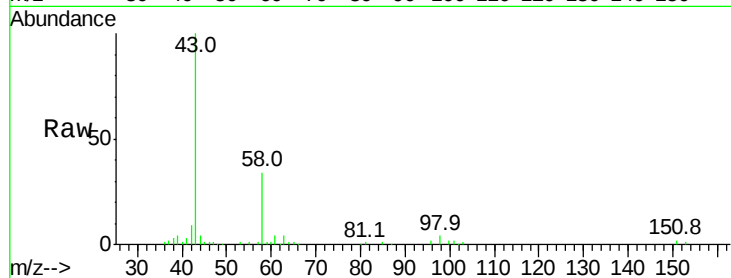
VSTD05065

Tgt Ion: 43 Resp: 42543

Ion Ratio Lower Upper

43 100

58 35.0 0.0 69.2



#14

Carbon disulfide

Concen: 41.109 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV010848.D

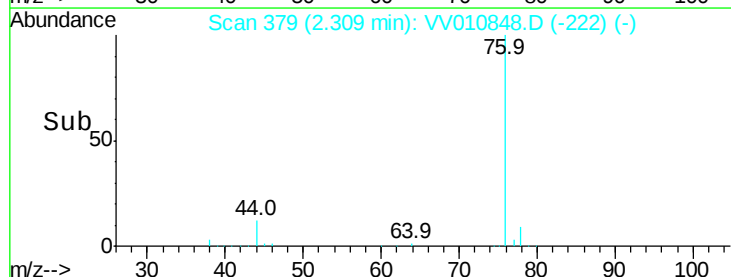
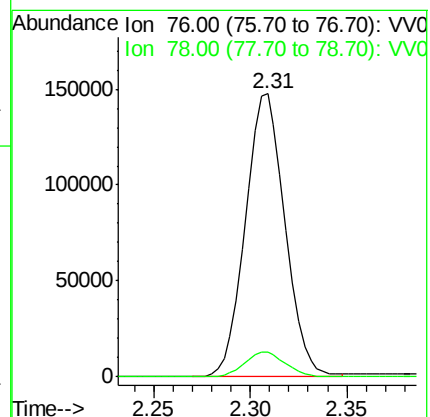
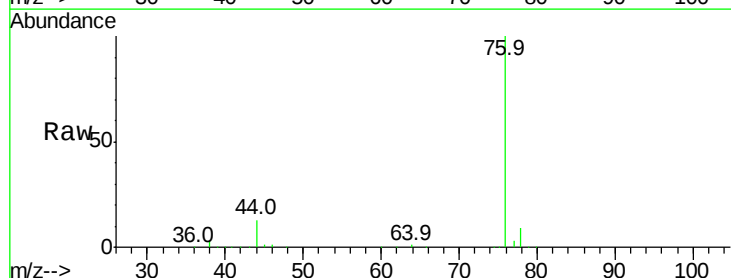
Acq: 13 May 2019 19:42

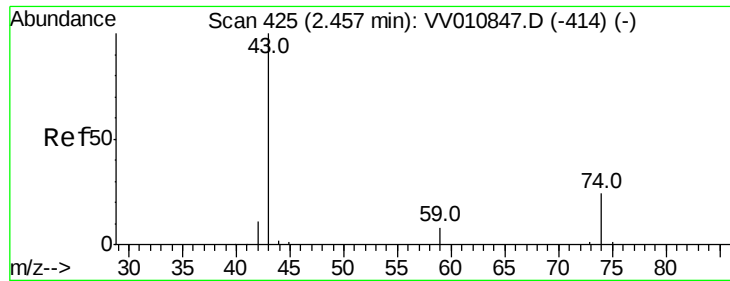
Tgt Ion: 76 Resp: 210195

Ion Ratio Lower Upper

76 100

78 8.8 7.2 10.8

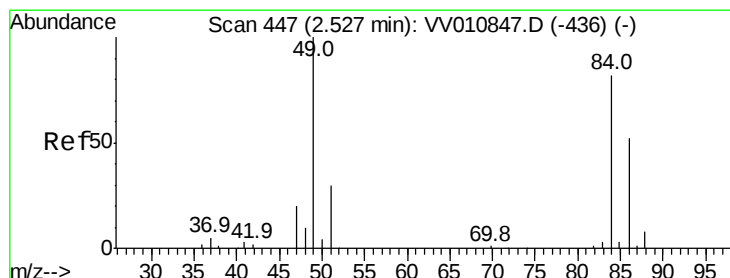
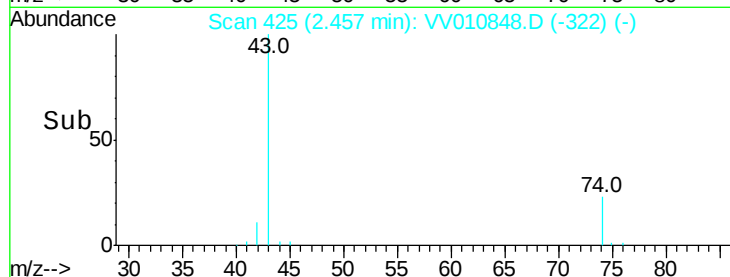
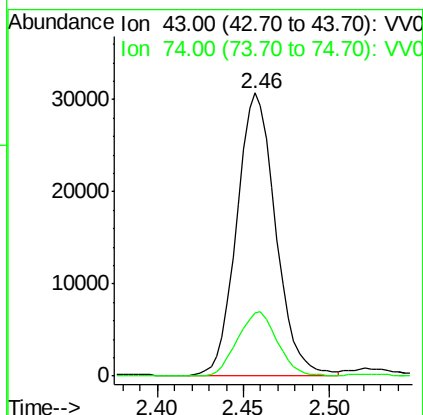
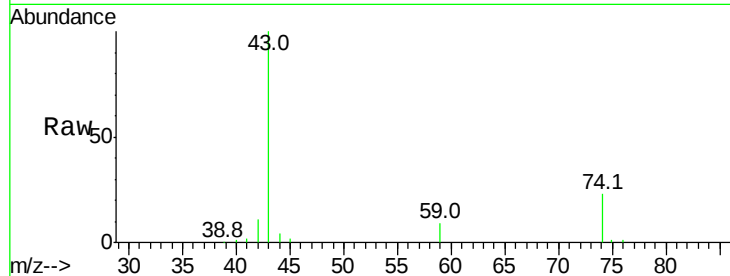




#15
Methyl Acetate
Concen: 42.494 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV010848.D
Acq: 13 May 2019 19:42

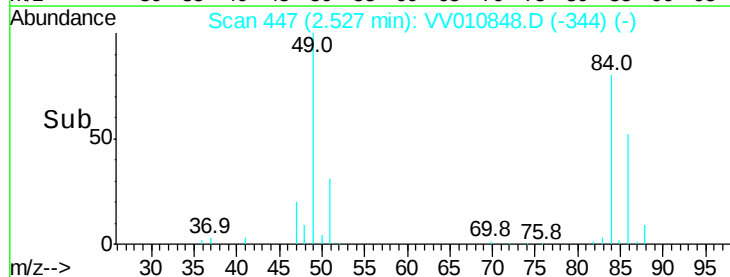
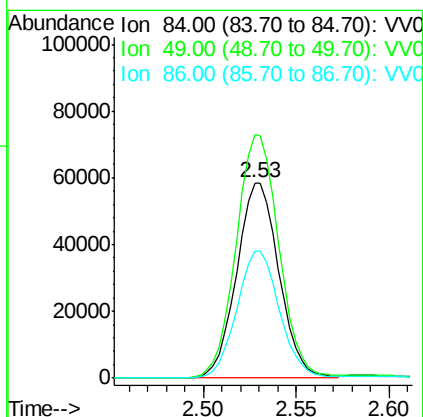
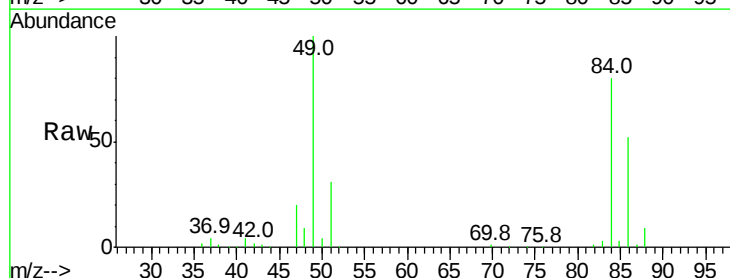
Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

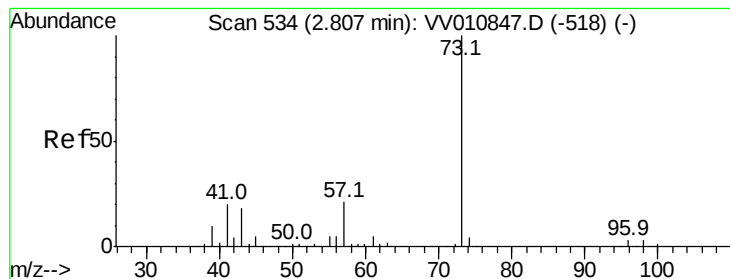
Tgt Ion: 43 Resp: 48421
Ion Ratio Lower Upper
43 100
74 23.4 18.6 27.8



#16
Methylene chloride
Concen: 45.468 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV010848.D
Acq: 13 May 2019 19:42

Tgt Ion: 84 Resp: 92917
Ion Ratio Lower Upper
84 100
49 124.8 85.8 159.3
86 65.1 45.0 83.6





#17

Methyl tert-butyl Ether

Concen: 47.029 ug/L

RT: 2.81 min Scan# 534

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

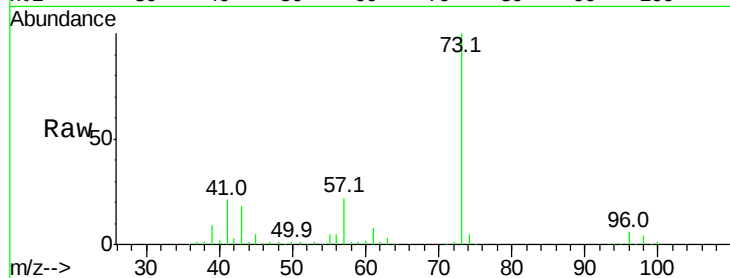
Tgt Ion: 73 Resp: 245026

Ion Ratio Lower Upper

73 100

43 18.5 15.3 22.9

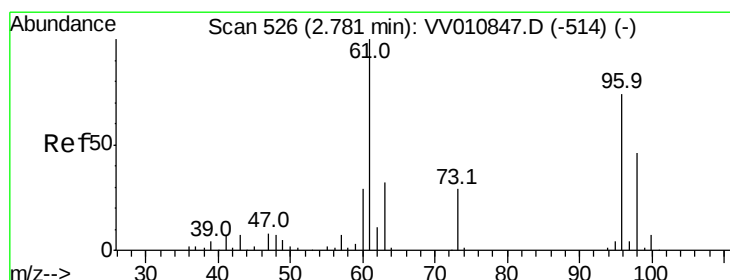
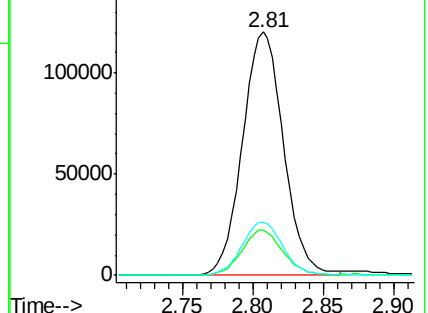
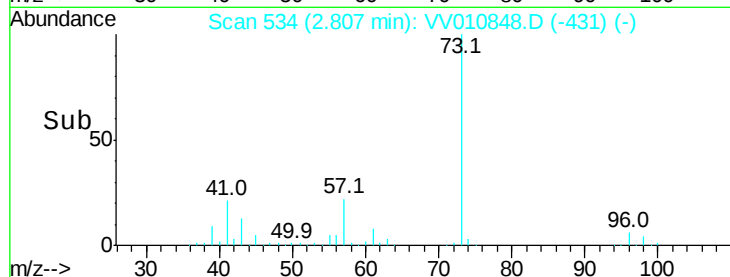
57 22.0 17.5 26.3



Abundance Ion 73.00 (72.70 to 73.70): VV010848.D (-431) (-)

Ion 43.00 (42.70 to 43.70): VV010848.D (-431) (-)

Ion 57.00 (56.70 to 57.70): VV010848.D (-431) (-)



#18

trans-1,2-Dichloroethene

Concen: 45.169 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

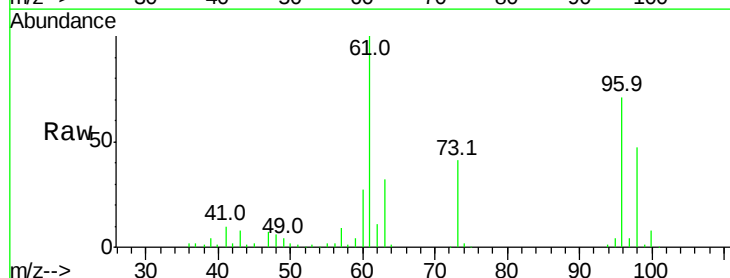
Tgt Ion: 96 Resp: 84953

Ion Ratio Lower Upper

96 100

61 140.5 95.0 176.4

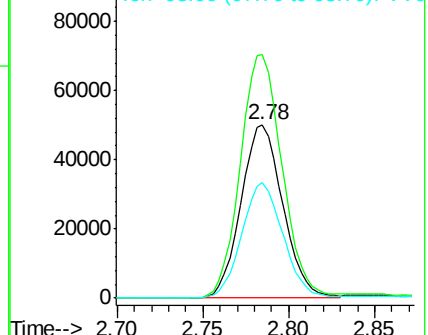
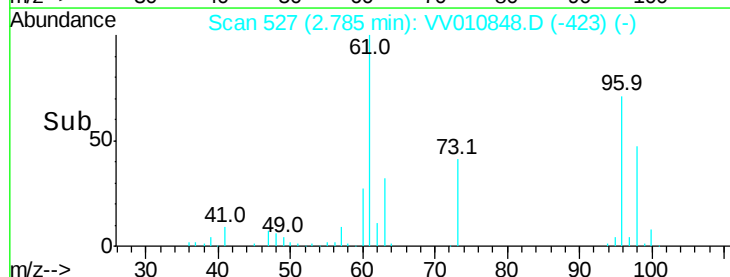
98 66.4 43.3 80.3

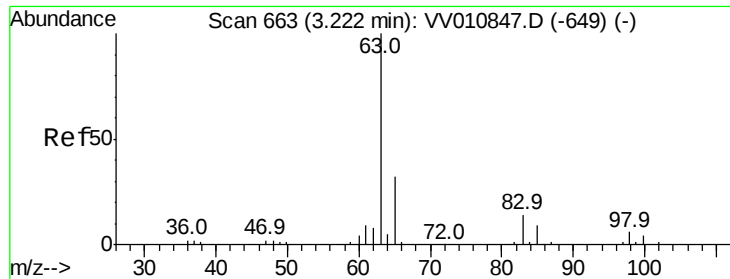


Abundance Ion 96.00 (95.70 to 96.70): VV010848.D (-423) (-)

Ion 61.00 (60.70 to 61.70): VV010848.D (-423) (-)

Ion 98.00 (97.70 to 98.70): VV010848.D (-423) (-)

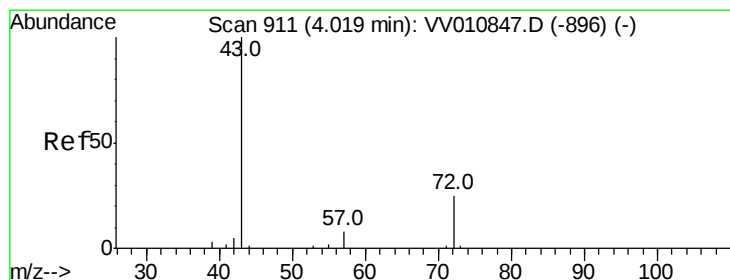
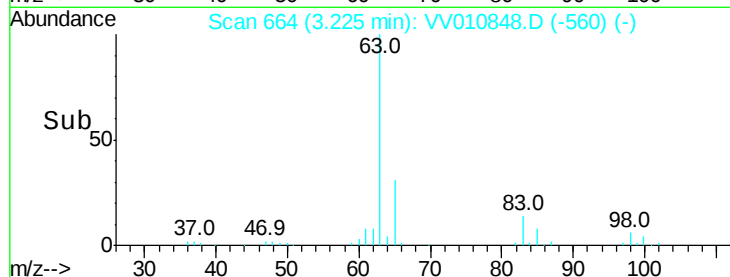
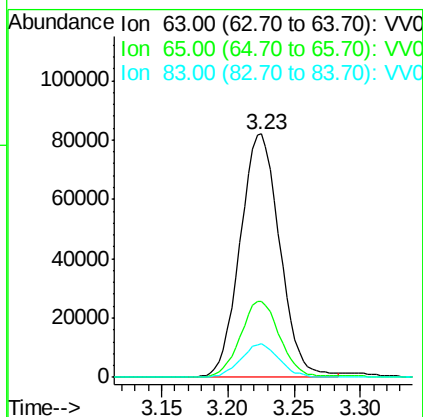
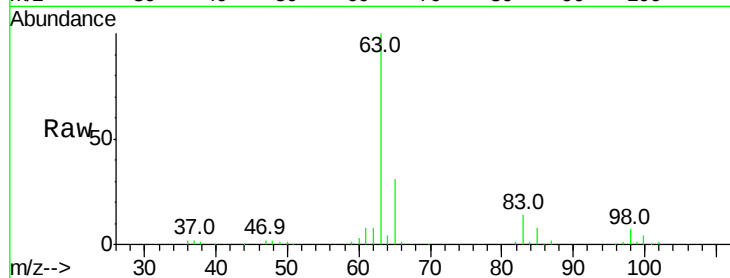




#19
 1,1-Dichloroethane
 Concen: 47.100 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV010848.D
 Acq: 13 May 2019 19:42

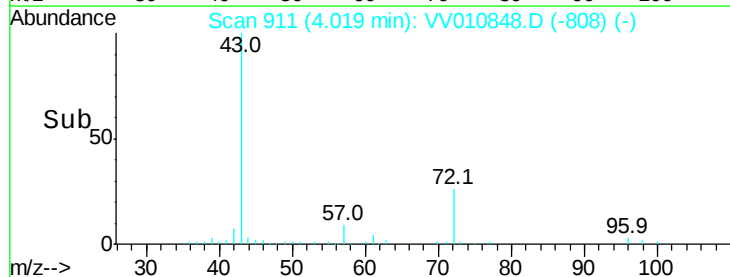
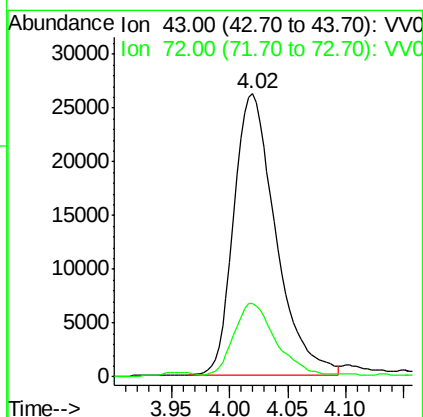
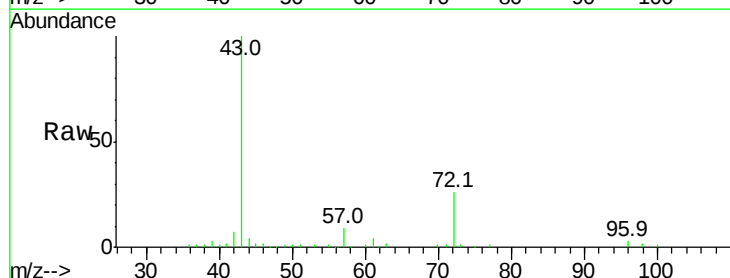
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

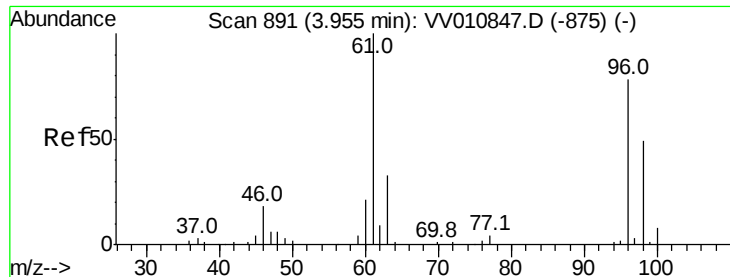
Tgt Ion: 63 Resp: 171020
 Ion Ratio Lower Upper
 63 100
 65 31.1 22.1 41.1
 83 13.6 9.7 17.9



#21
 2-Butanone
 Concen: 72.846 ug/L
 RT: 4.02 min Scan# 911
 Delta R.T. 0.00 min
 Lab File: VV010848.D
 Acq: 13 May 2019 19:42

Tgt Ion: 43 Resp: 65853
 Ion Ratio Lower Upper
 43 100
 72 26.0 13.7 41.1

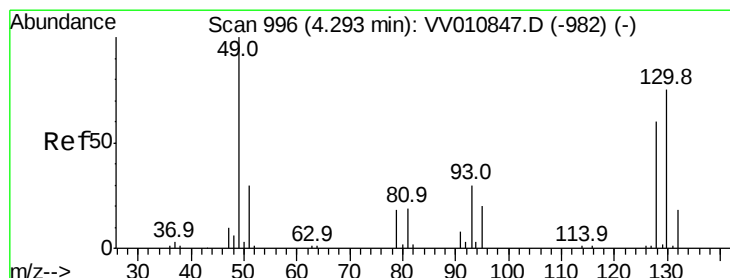
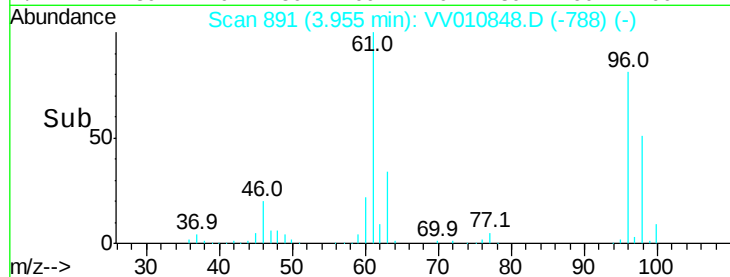
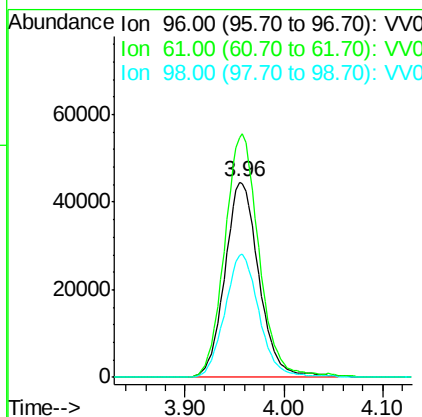
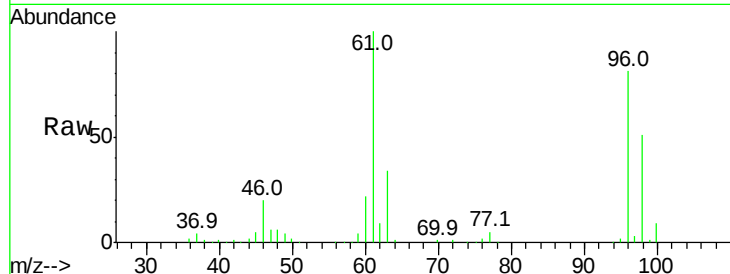




#22
 cis-1,2-Dichloroethene
 Concen: 50.049 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. -0.00 min
 Lab File: VV010848.D
 Acq: 13 May 2019 19:42

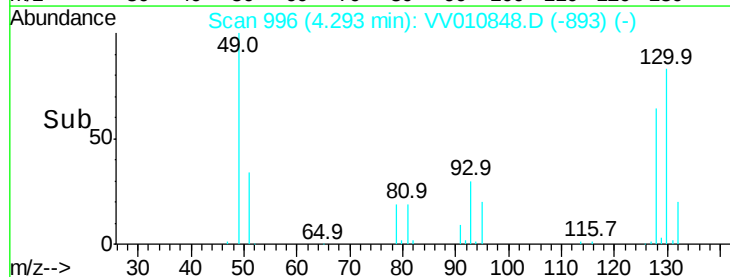
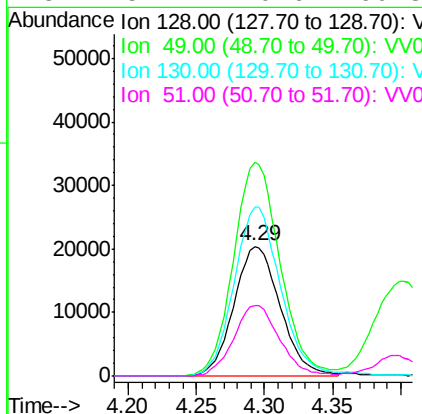
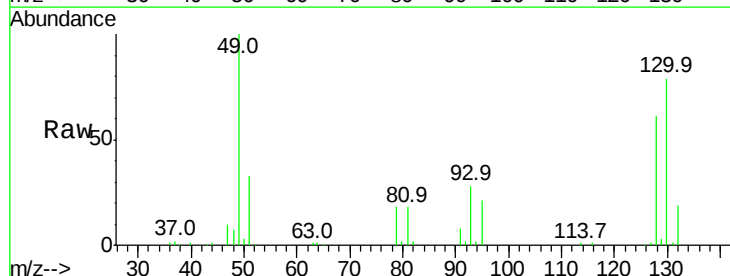
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

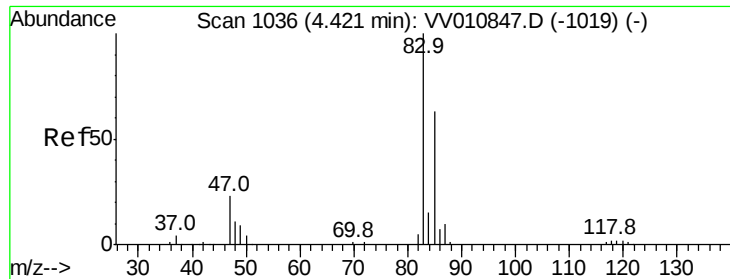
Tgt Ion: 96 Resp: 107532
 Ion Ratio Lower Upper
 96 100
 61 122.7 90.2 167.6
 98 62.5 44.2 82.0



#23
 Bromochloromethane
 Concen: 50.046 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. 0.00 min
 Lab File: VV010848.D
 Acq: 13 May 2019 19:42

Tgt Ion: 128 Resp: 48334
 Ion Ratio Lower Upper
 128 100
 49 164.8 117.8 218.8
 130 130.5 88.4 164.2
 51 54.4 40.6 60.8





#25

Chloroform

Concen: 45.737 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

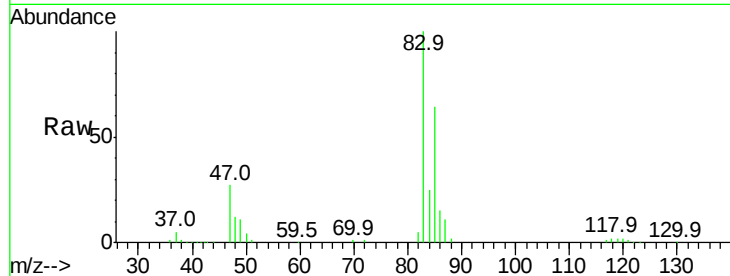
VSTD05065

Tgt Ion: 83 Resp: 182948

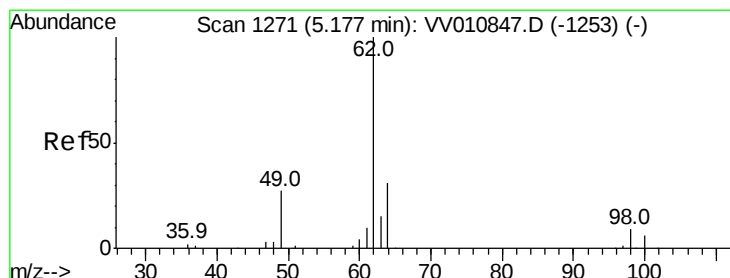
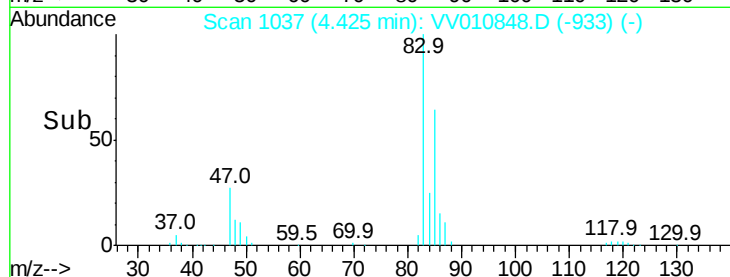
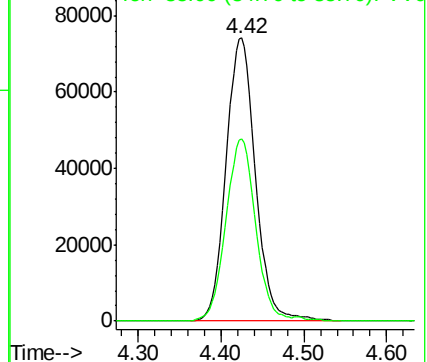
Ion Ratio Lower Upper

83 100

85 65.0 45.3 84.1



Abundance Ion 83.00 (82.70 to 83.70): VV010848.D (-933) (-)



#27

1,2-Dichloroethane

Concen: 43.505 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV010848.D

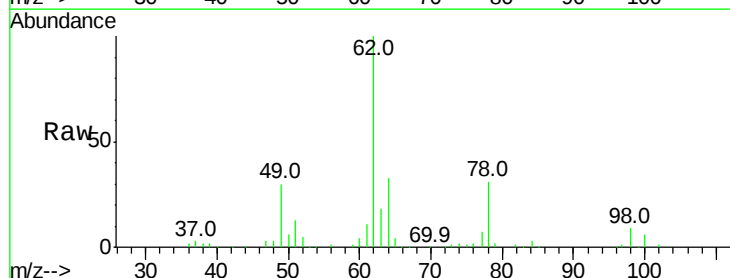
Acq: 13 May 2019 19:42

Tgt Ion: 62 Resp: 127198

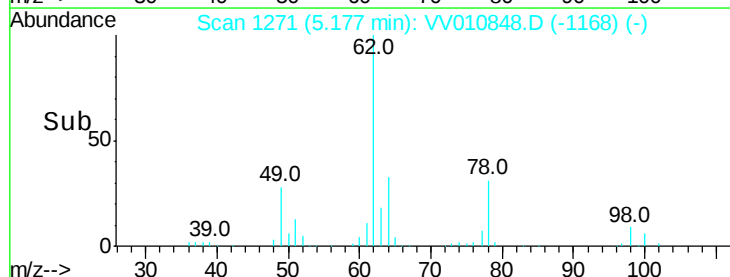
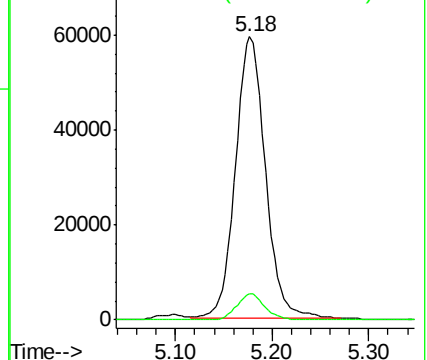
Ion Ratio Lower Upper

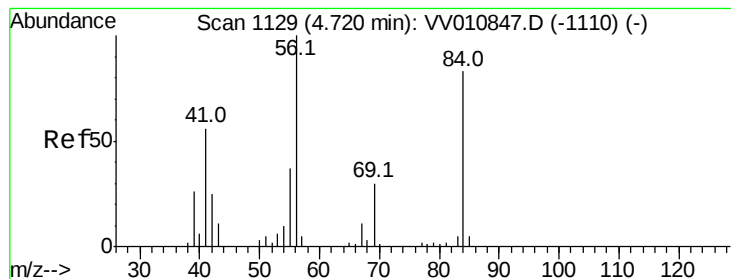
62 100

98 9.4 7.0 10.4



Abundance Ion 62.00 (61.70 to 62.70): VV010848.D (-1168) (-)





#30

Cyclohexane

Concen: 36.032 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

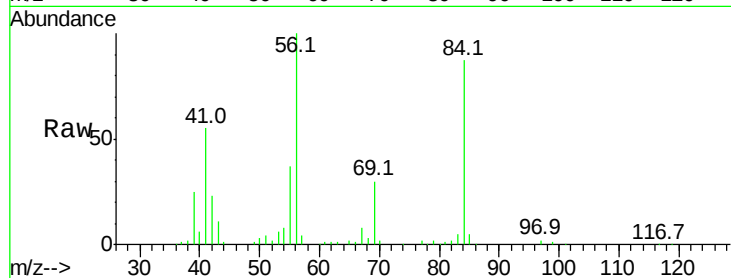
Tgt Ion: 56 Resp: 128024

Ion Ratio Lower Upper

56 100

69 30.7 25.2 37.8

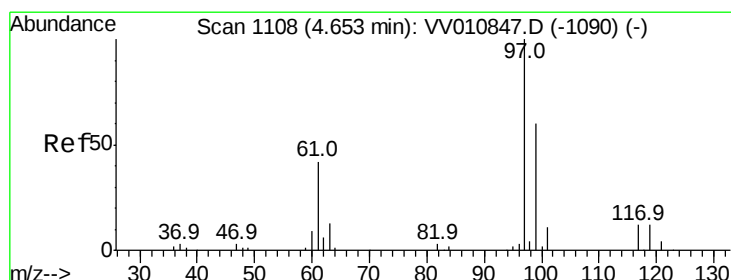
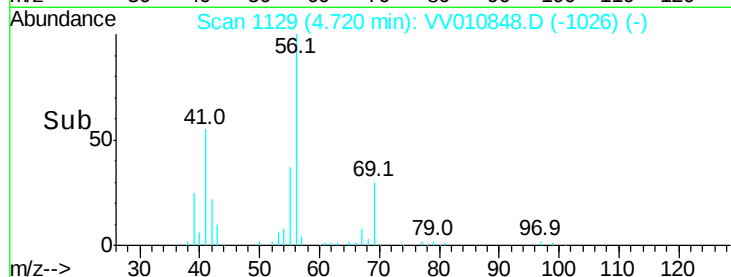
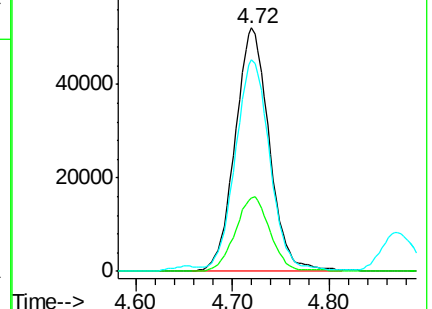
84 86.9 69.0 103.4



Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 40.292 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

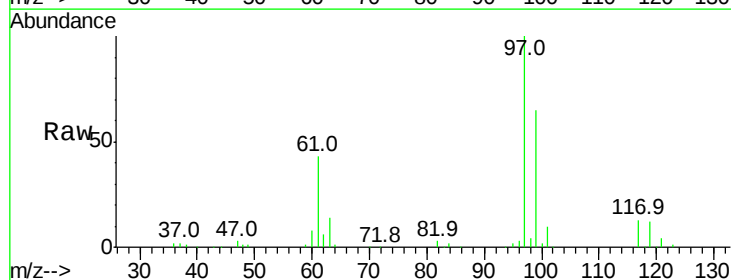
Tgt Ion: 97 Resp: 142321

Ion Ratio Lower Upper

97 100

99 64.3 49.4 74.2

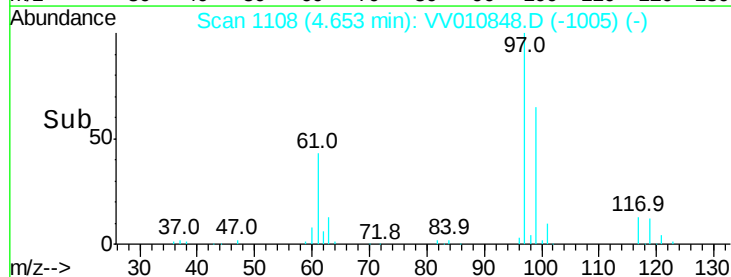
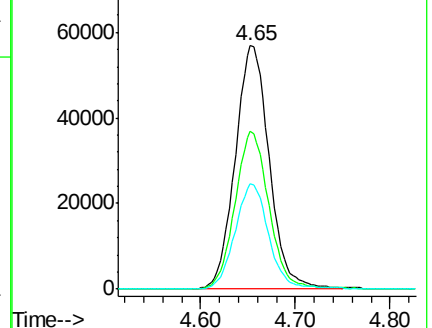
61 43.1 34.6 51.8

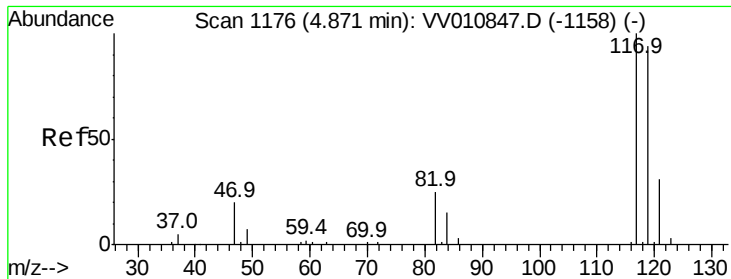


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 40.434 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

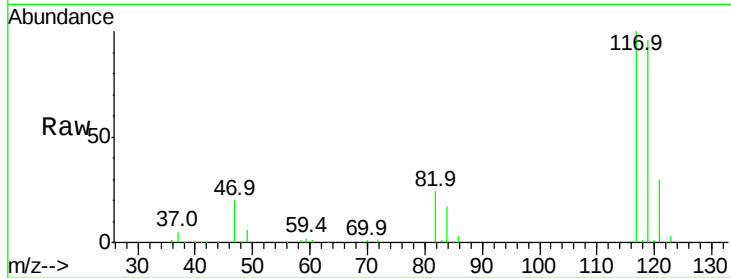
VSTD05065

Tgt Ion:117 Resp: 124409

Ion Ratio Lower Upper

117 100

119 93.4 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

60000

50000

40000

30000

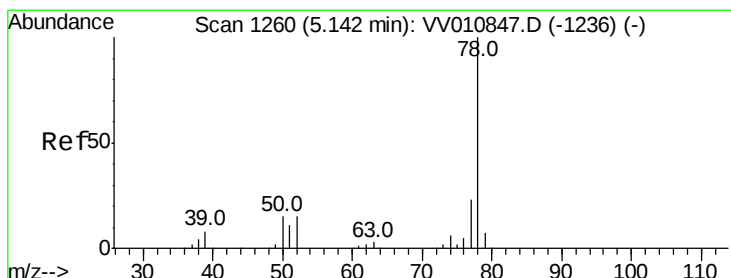
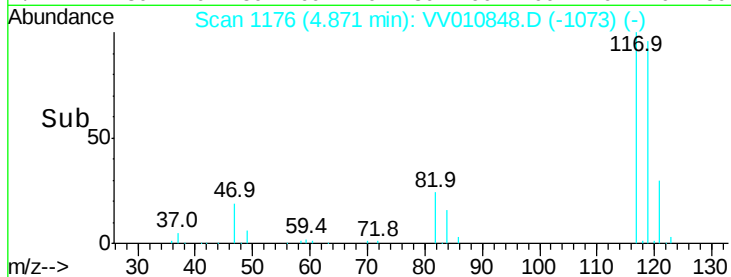
20000

10000

0

Time-->

4.80 4.90 5.00



#34

Benzene

Concen: 47.184 ug/L

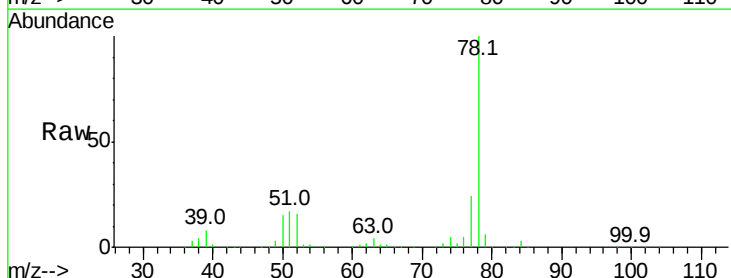
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Tgt Ion: 78 Resp: 392402



Abundance Ion 78.00 (77.70 to 78.70): VV0

200000

150000

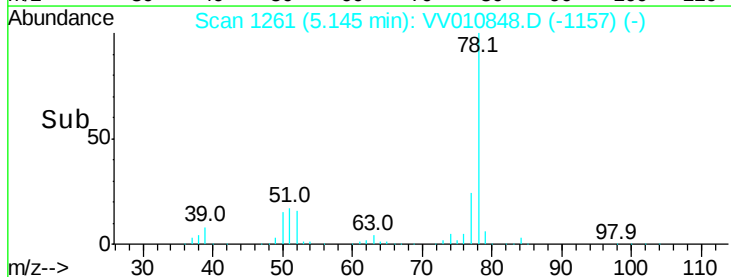
100000

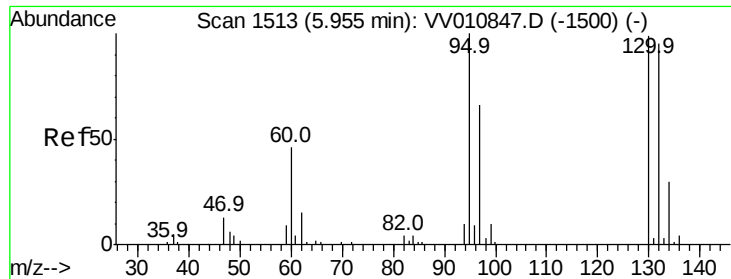
50000

0

Time-->

5.00 5.10 5.20 5.30





#35

Trichloroethene

Concen: 43.657 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

Tgt Ion: 95 Resp: 101700

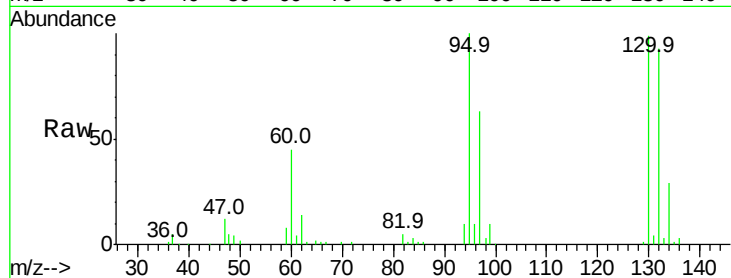
Ion Ratio Lower Upper

95 100

97 64.7 46.0 85.4

132 94.6 67.4 125.2

130 100.5 68.5 127.1

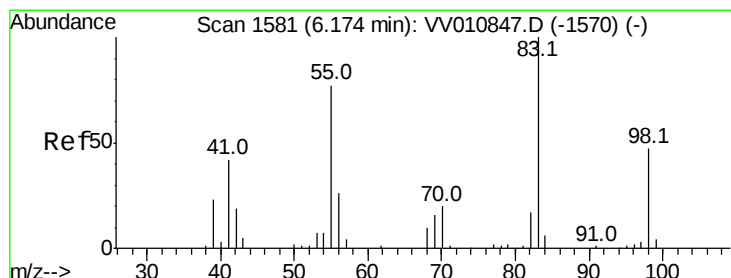
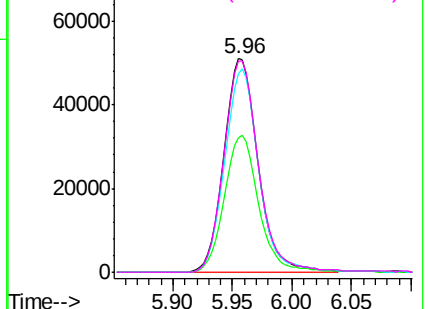
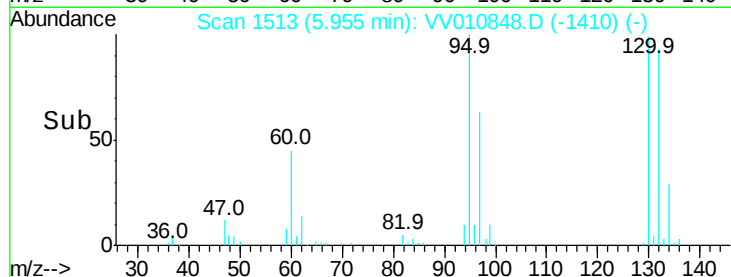


Abundance Ion 95.00 (94.70 to 95.70): VV010848.D (-1410) (-)

Ion 97.00 (96.70 to 97.70): VV010848.D (-1410) (-)

Ion 132.00 (131.70 to 132.70): VV010848.D (-1410) (-)

Ion 130.00 (129.70 to 130.70): VV010848.D (-1410) (-)



#36

Methylcyclohexane

Concen: 38.231 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

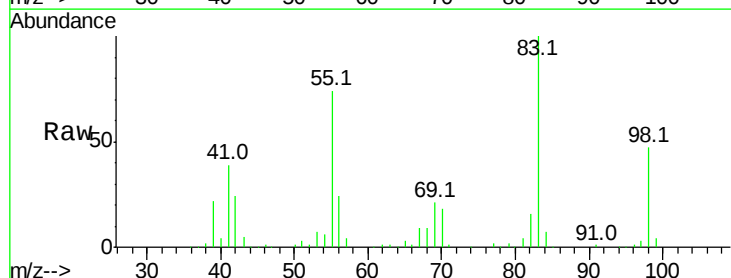
Tgt Ion: 83 Resp: 142737

Ion Ratio Lower Upper

83 100

55 74.5 61.0 91.4

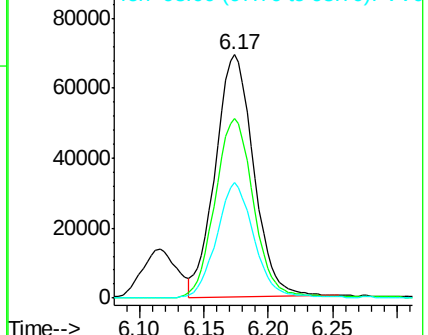
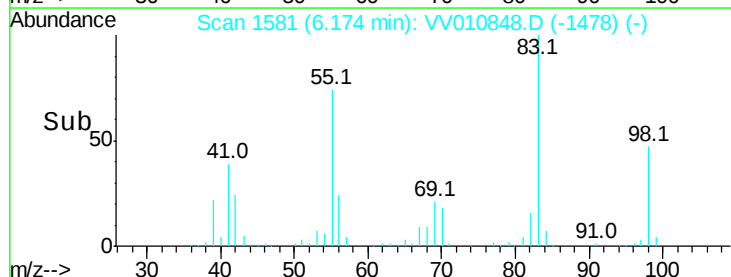
98 47.1 37.2 55.8

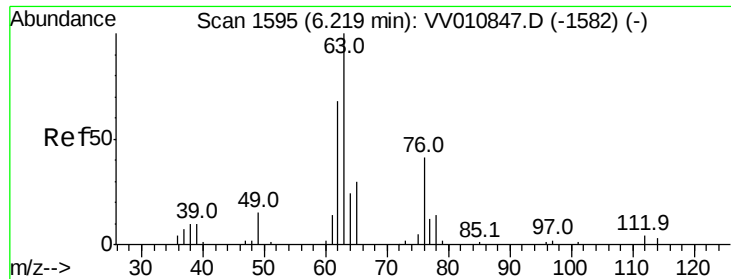


Abundance Ion 83.00 (82.70 to 83.70): VV010848.D (-1478) (-)

Ion 55.00 (54.70 to 55.70): VV010848.D (-1478) (-)

Ion 98.00 (97.70 to 98.70): VV010848.D (-1478) (-)





#40

1,2-Dichloropropane

Concen: 47.190 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

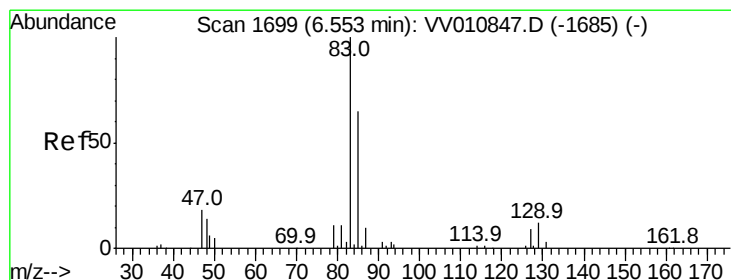
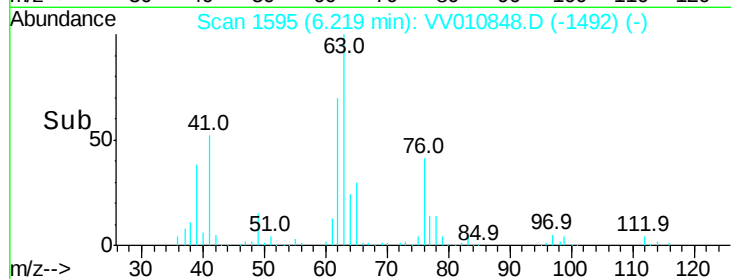
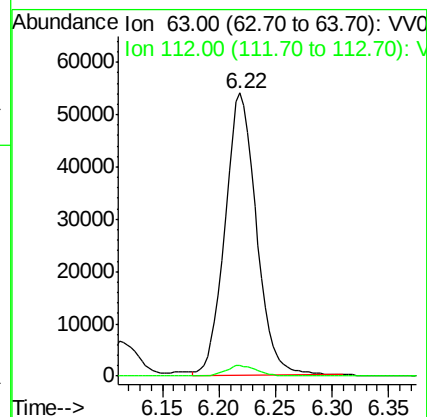
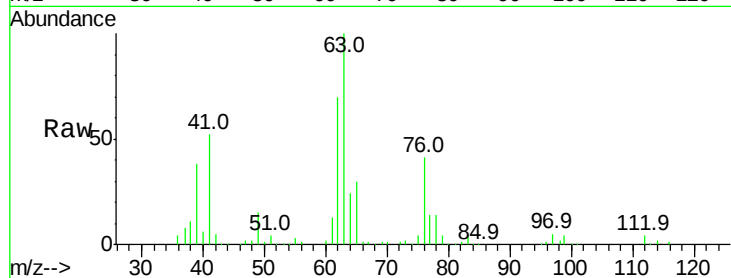
Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

Tgt Ion: 63 Resp: 104400

Ion	Ratio	Lower	Upper
63	100		
112	3.7	3.2	4.8



#41

Bromodichloromethane

Concen: 45.849 ug/L

RT: 6.55 min Scan# 1699

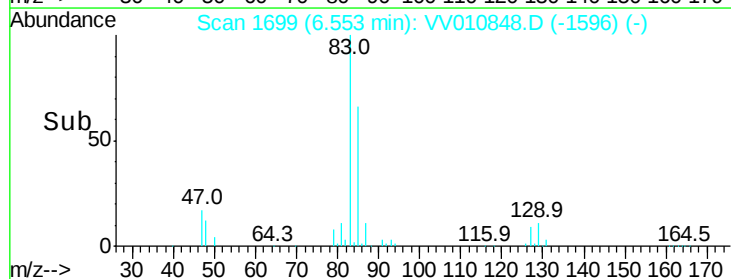
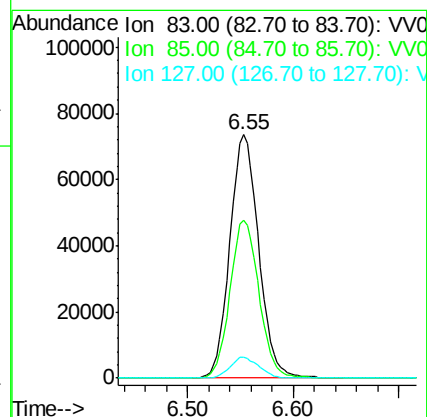
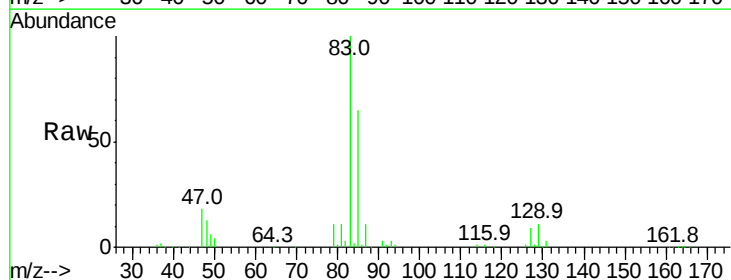
Delta R.T. 0.00 min

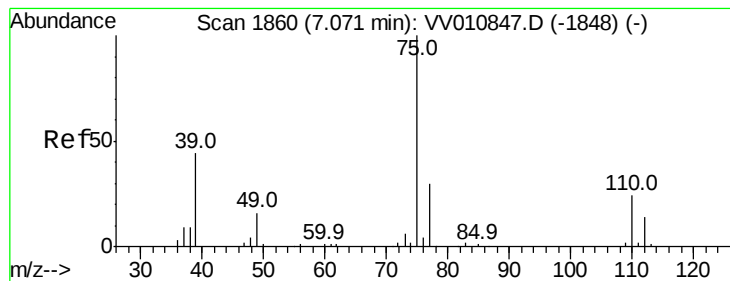
Lab File: VV010848.D

Acq: 13 May 2019 19:42

Tgt Ion: 83 Resp: 139375

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.3	84.1
127	8.8	7.4	11.2



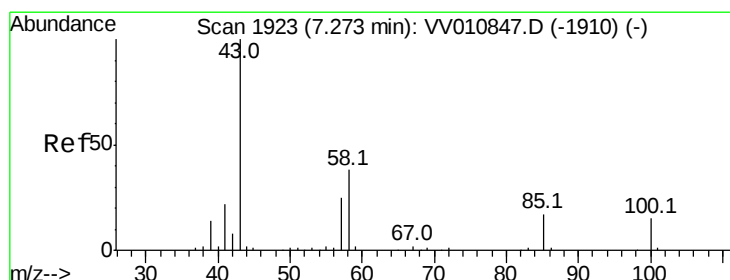
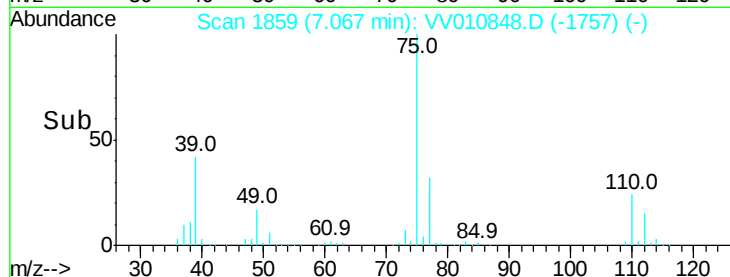
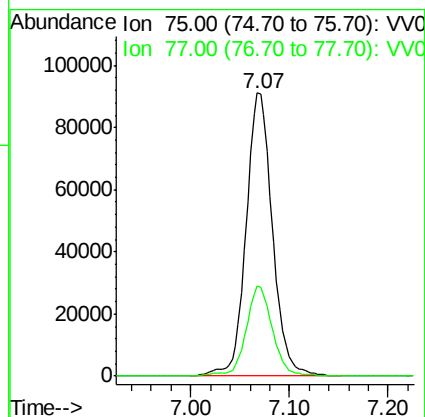
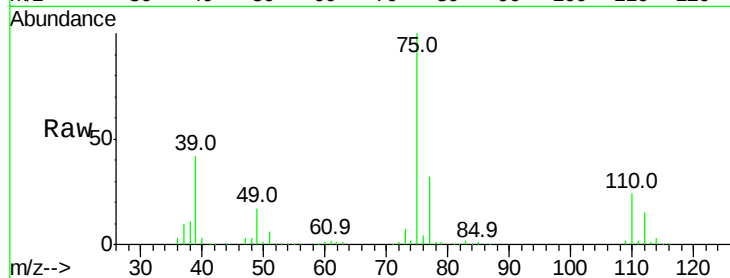


#42

cis-1,3-Dichloropropene
Concen: 48.128 ug/L
RT: 7.07 min Scan# 1859
Delta R.T. -0.00 min
Lab File: VV010848.D
Acq: 13 May 2019 19:42

Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

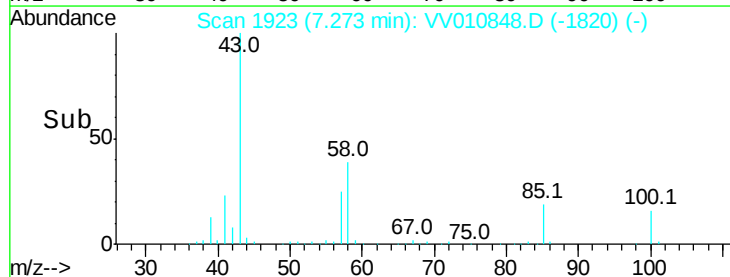
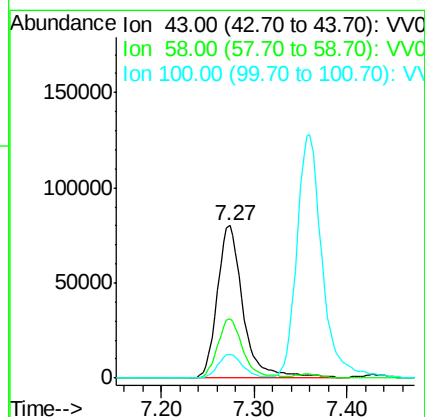
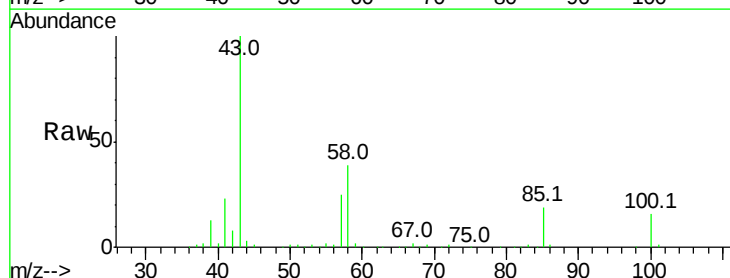
Tgt Ion: 75 Resp: 168412
Ion Ratio Lower Upper
75 100
77 31.7 21.5 39.9

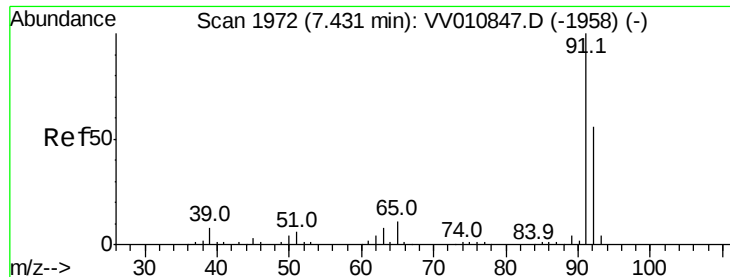


#43

4-Methyl-2-pentanone
Concen: 83.405 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VV010848.D
Acq: 13 May 2019 19:42

Tgt Ion: 43 Resp: 155320
Ion Ratio Lower Upper
43 100
58 37.9 30.0 45.0
100 14.7 11.2 16.8





#44

Toluene

Concen: 47.695 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

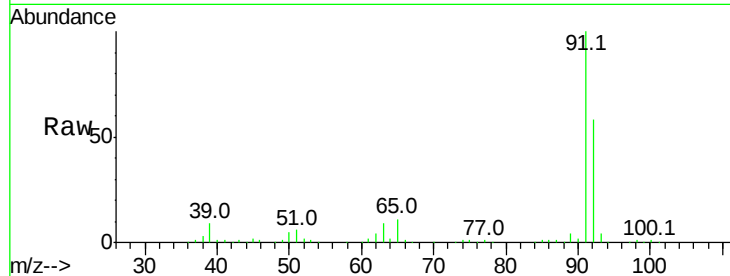
Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

Tgt Ion: 91 Resp: 450491

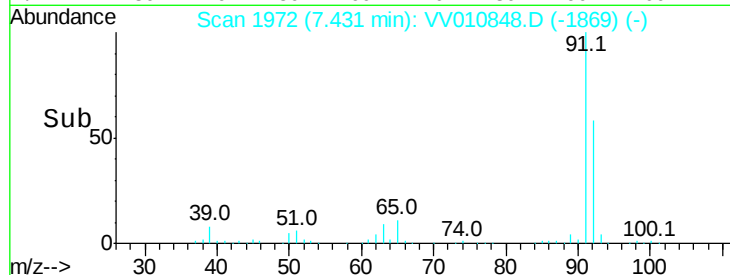
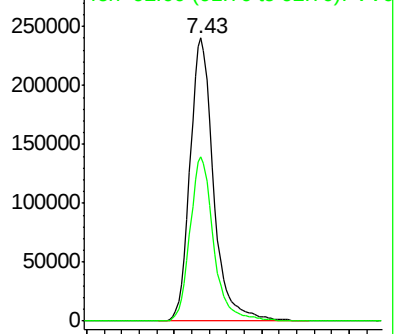
Ion Ratio Lower Upper

91 100

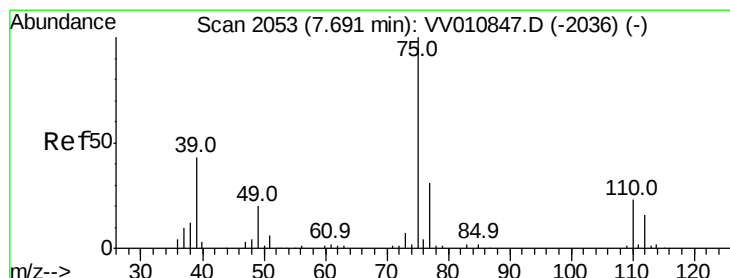
92 58.3 39.1 72.7



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 92.00 (91.70 to 92.70): VV0



Time-->



#45

trans-1,3-Dichloropropene

Concen: 47.166 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV010848.D

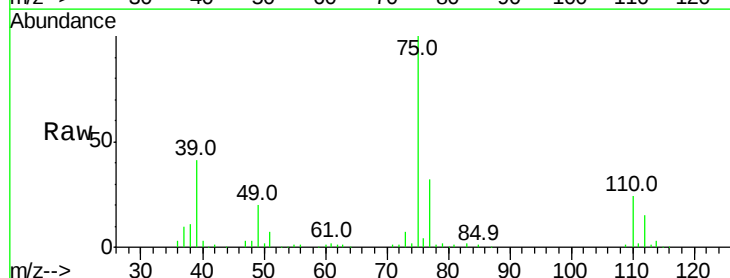
Acq: 13 May 2019 19:42

Tgt Ion: 75 Resp: 138977

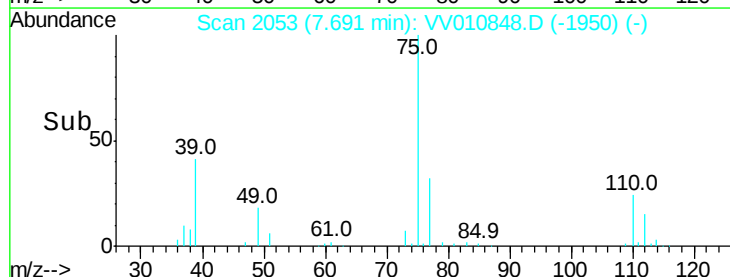
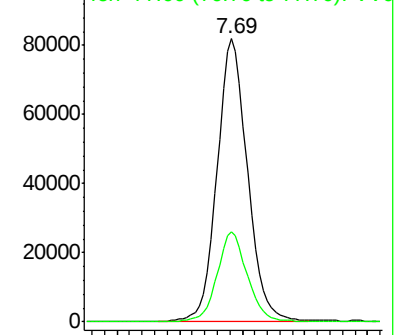
Ion Ratio Lower Upper

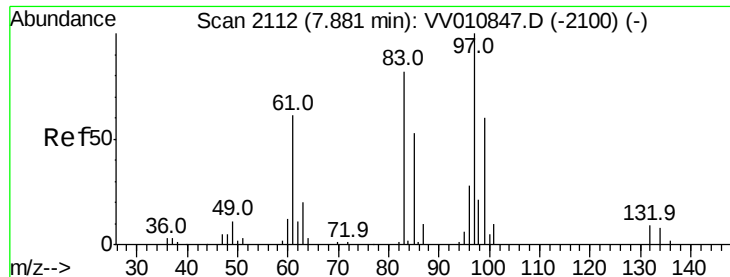
75 100

77 32.0 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0

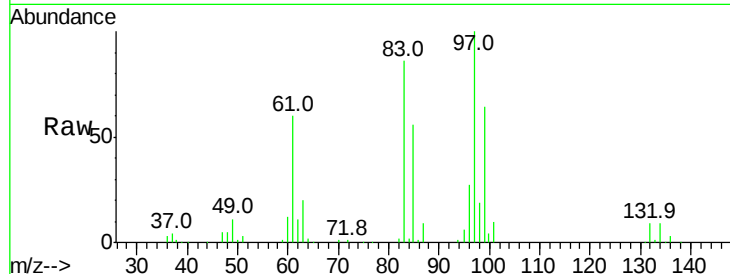




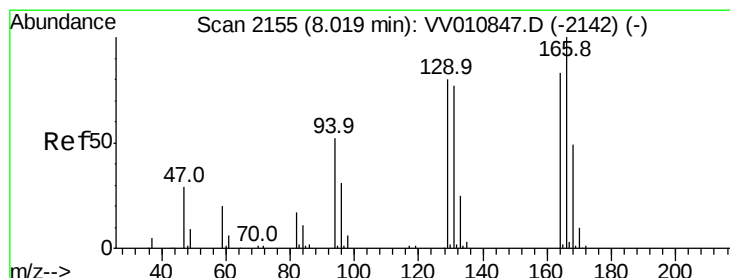
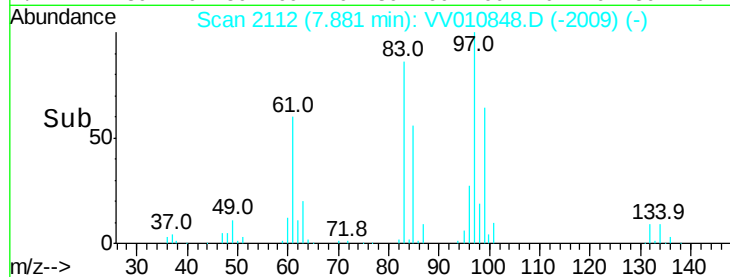
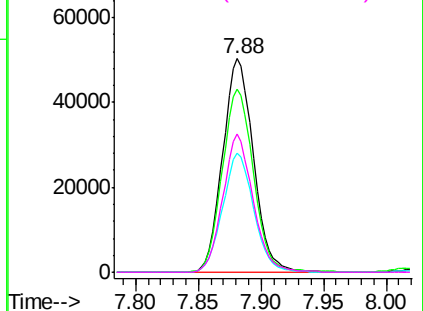
#46
 1,1,2-Trichloroethane
 Concen: 47.127 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV010848.D
 Acq: 13 May 2019 19:42

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

Tgt Ion: 97 Resp: 85651
 Ion Ratio Lower Upper
 97 100
 83 85.6 57.2 106.2
 85 56.0 37.4 69.4
 99 64.5 42.0 78.0

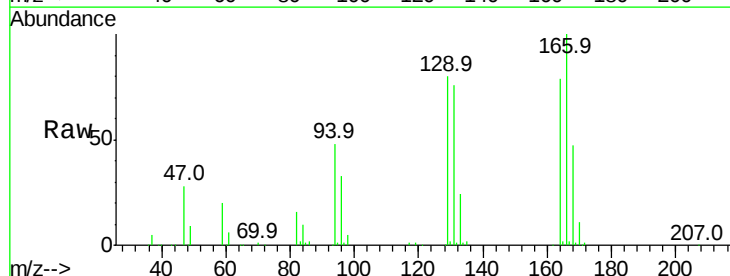


Abundance Ion 97.00 (96.70 to 97.70): VV010848.D (-2099) (-)
 Ion 83.00 (82.70 to 83.70): VV010848.D (-2099) (-)
 Ion 85.00 (84.70 to 85.70): VV010848.D (-2099) (-)
 Ion 99.00 (98.70 to 99.70): VV010848.D (-2099) (-)

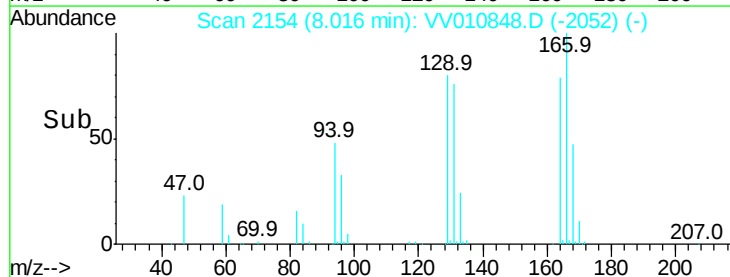
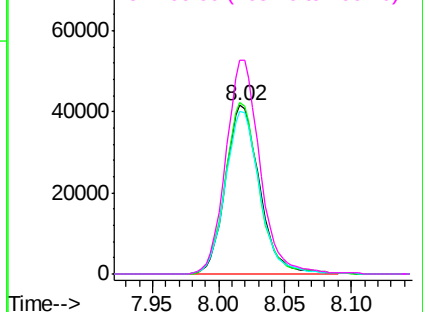


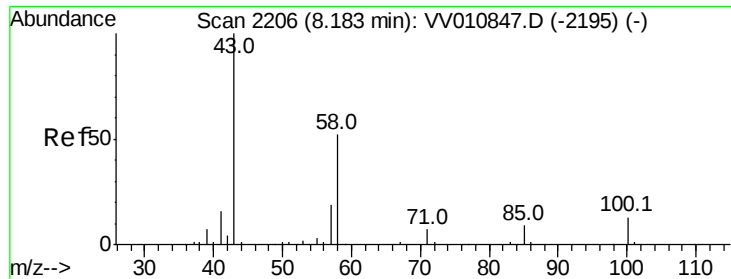
#47
 Tetrachloroethene
 Concen: 44.153 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV010848.D
 Acq: 13 May 2019 19:42

Tgt Ion: 164 Resp: 74488
 Ion Ratio Lower Upper
 164 100
 129 101.4 67.6 125.6
 131 96.5 65.1 120.9
 166 126.6 84.8 157.6



Abundance Ion 164.00 (163.70 to 164.70): VV010848.D (-2052) (-)
 Ion 129.00 (128.70 to 129.70): VV010848.D (-2052) (-)
 Ion 131.00 (130.70 to 131.70): VV010848.D (-2052) (-)
 Ion 166.00 (165.70 to 166.70): VV010848.D (-2052) (-)

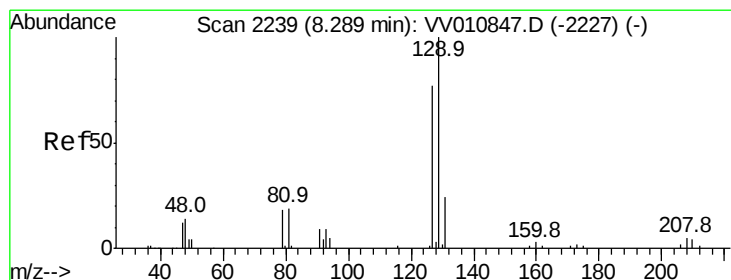
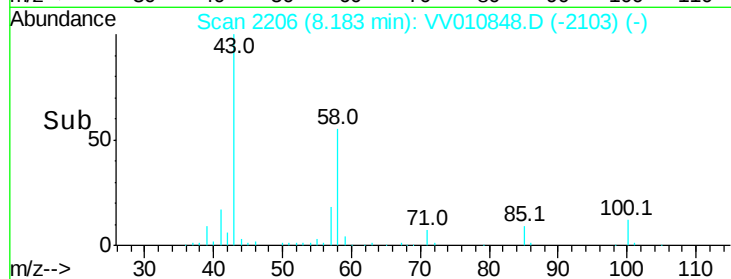
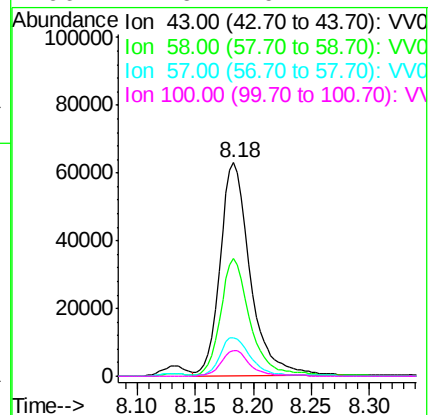
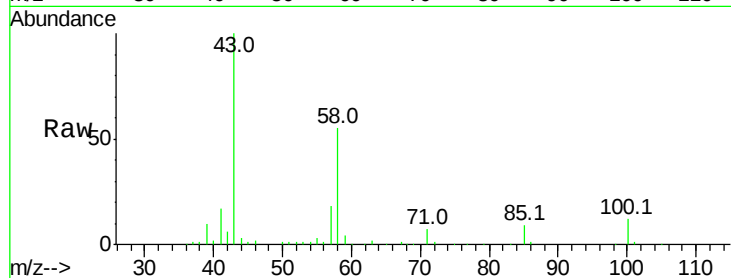




#49
2-Hexanone
Concen: 80.029 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV010848.D
Acq: 13 May 2019 19:42

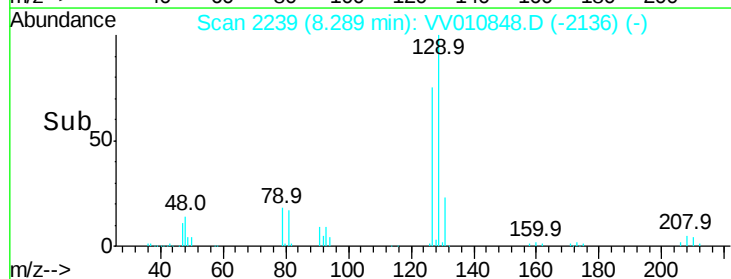
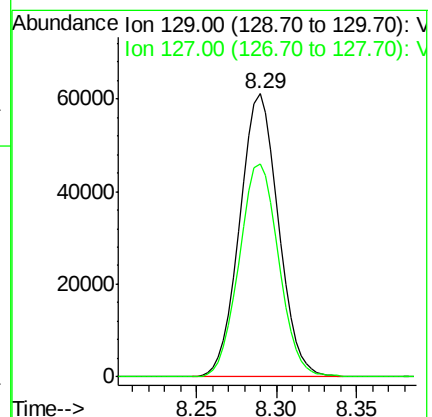
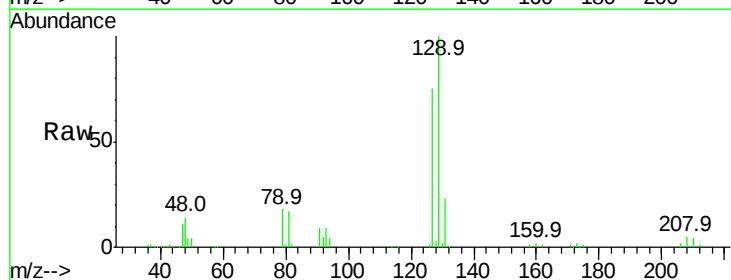
Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

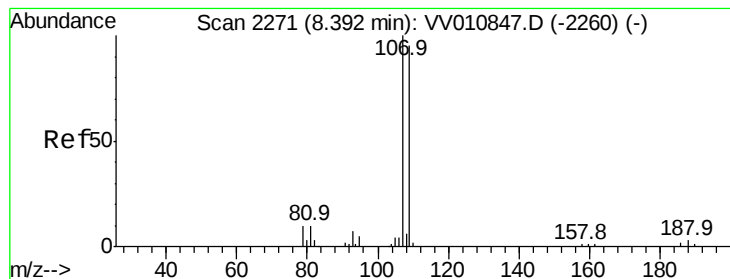
Tgt Ion: 43 Resp: 113308
Ion Ratio Lower Upper
43 100
58 55.2 41.0 61.6
57 18.0 14.3 21.5
100 11.6 9.4 14.2



#50
Dibromochloromethane
Concen: 48.148 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV010848.D
Acq: 13 May 2019 19:42

Tgt Ion: 129 Resp: 100629
Ion Ratio Lower Upper
129 100
127 75.4 53.8 100.0





#51

1,2-Dibromoethane

Concen: 46.894 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

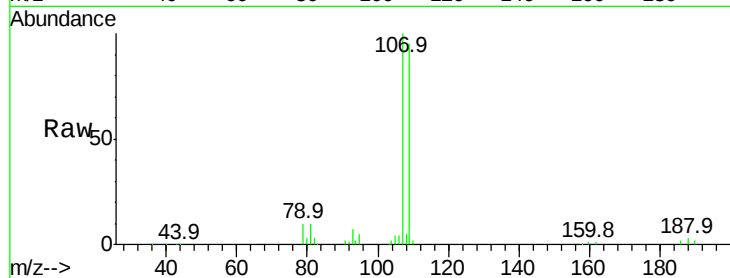
Tgt Ion:107 Resp: 82317

Ion Ratio Lower Upper

107 100

109 94.8 66.7 123.9

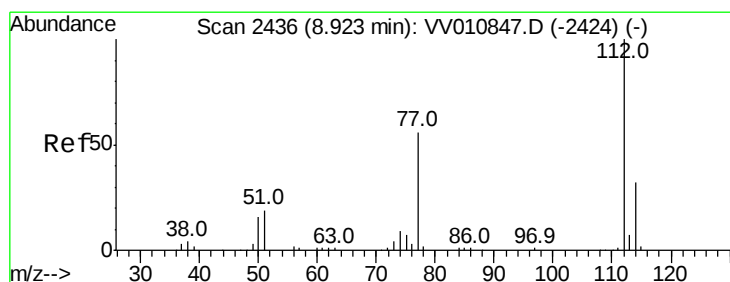
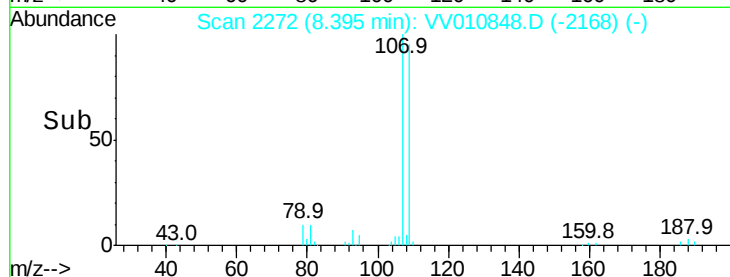
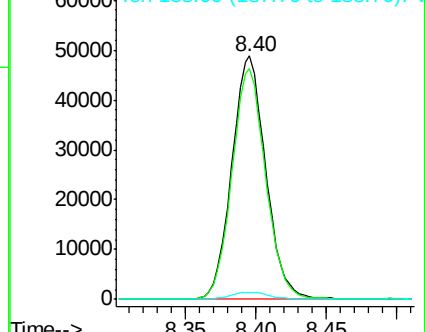
188 2.9 2.7 4.1



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: 49.078 ug/L

RT: 8.93 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

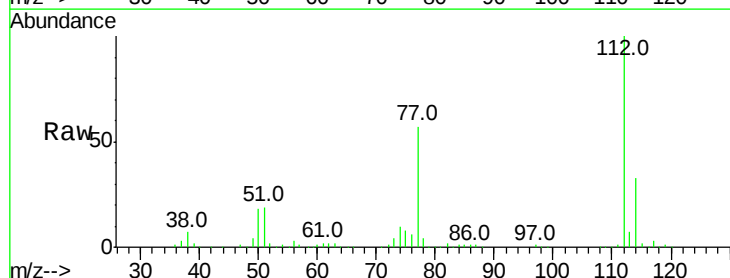
Tgt Ion:112 Resp: 302849

Ion Ratio Lower Upper

112 100

77 56.7 45.4 68.0

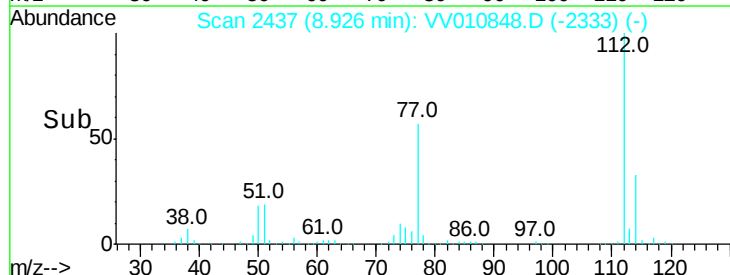
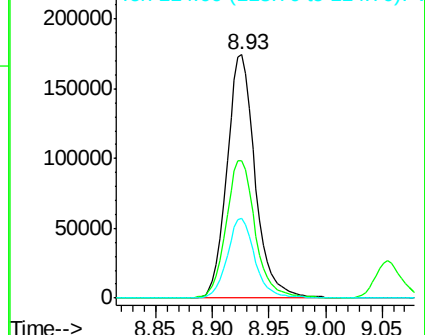
114 32.6 22.4 41.6

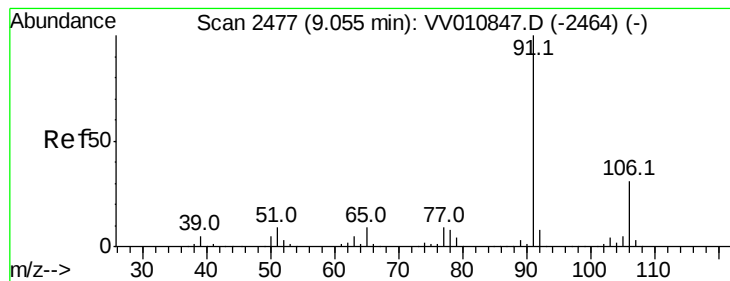


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 46.398 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

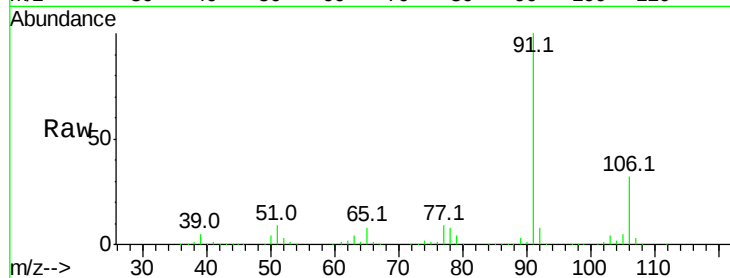
VSTD05065

Tgt Ion: 91 Resp: 508149

Ion Ratio Lower Upper

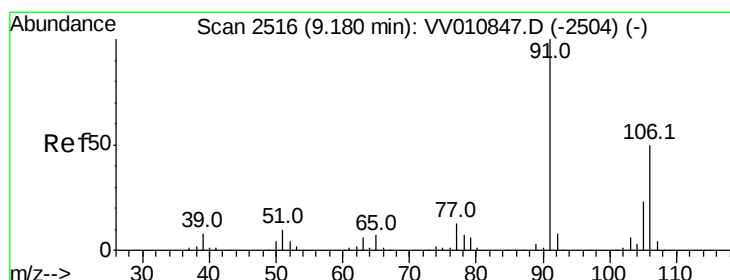
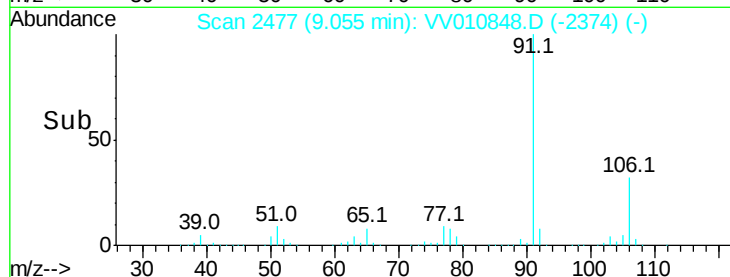
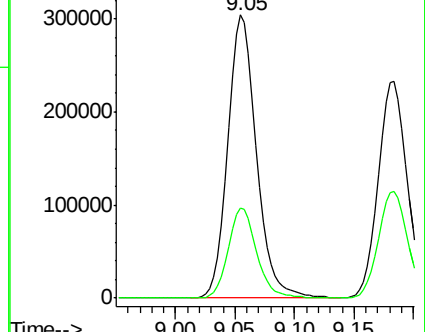
91 100

106 32.0 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV010848.D (-2464) (-)

Ion 106.00 (105.70 to 106.70): VV010848.D (-2464) (-)



#54

m,p-Xylene

Concen: 48.929 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV010848.D

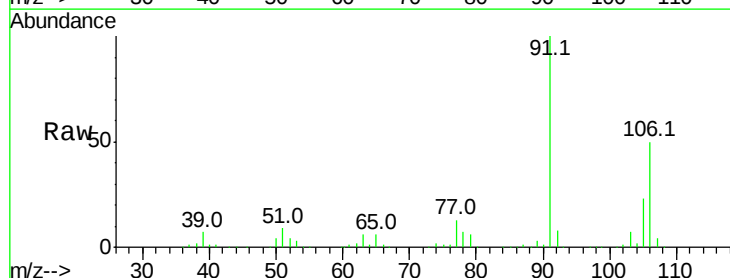
Acq: 13 May 2019 19:42

Tgt Ion: 106 Resp: 200202

Ion Ratio Lower Upper

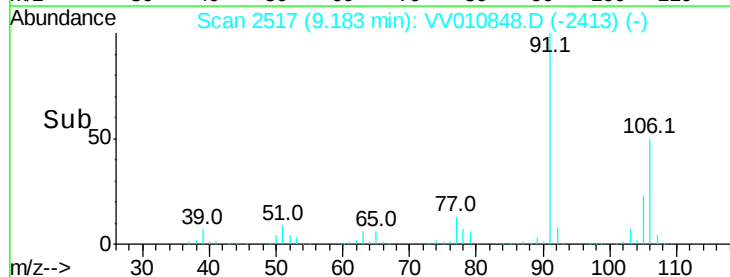
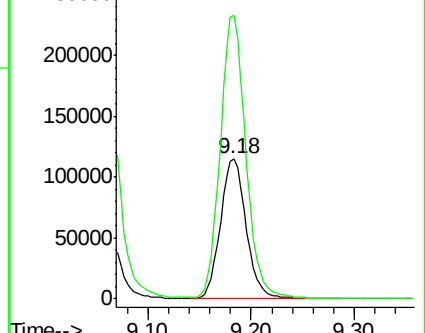
106 100

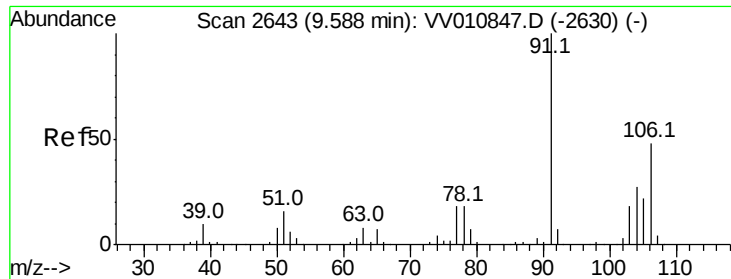
91 202.0 140.6 261.0



Abundance Ion 106.00 (105.70 to 106.70): VV010848.D (-2504) (-)

Ion 91.00 (90.70 to 91.70): VV010848.D (-2504) (-)

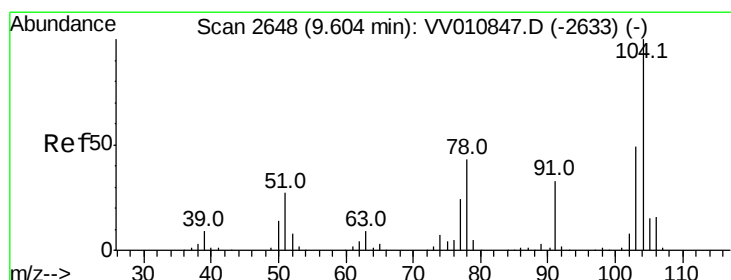
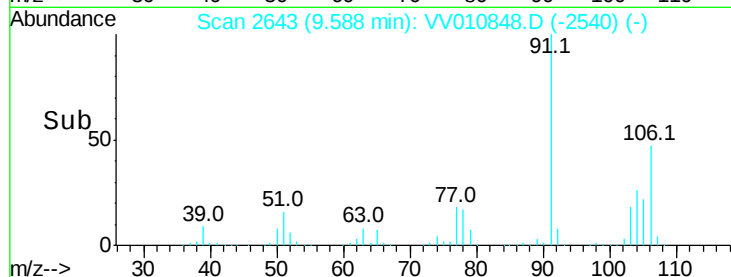
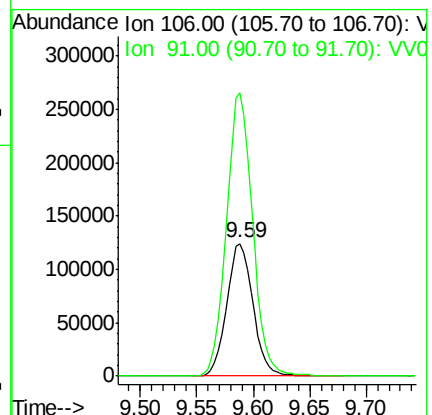
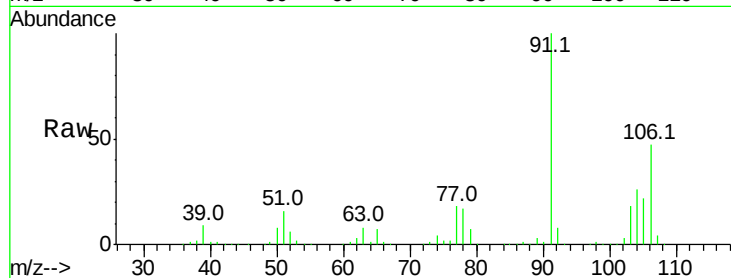




#55
o-xylene
Concen: 49.600 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV010848.D
Acq: 13 May 2019 19:42

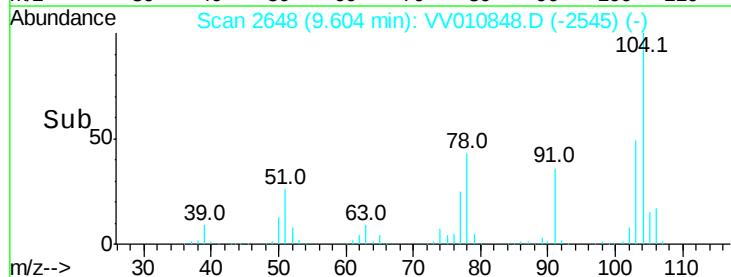
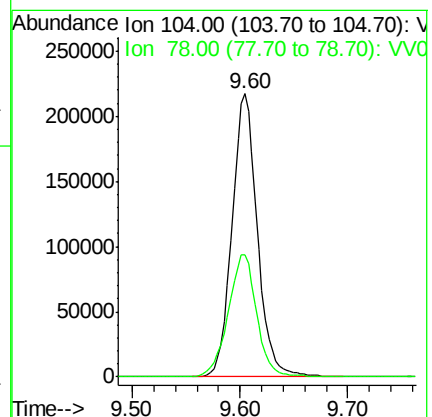
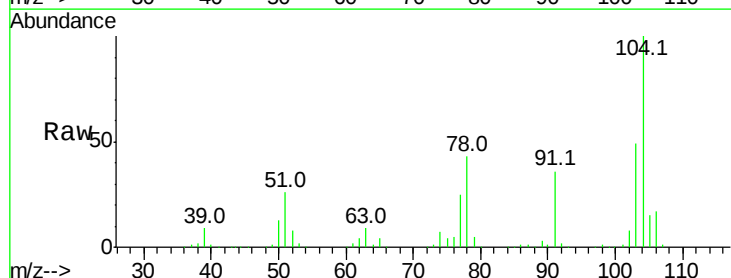
Instrument :
MSVOA_V
ClientSampleId :
VSTD05065

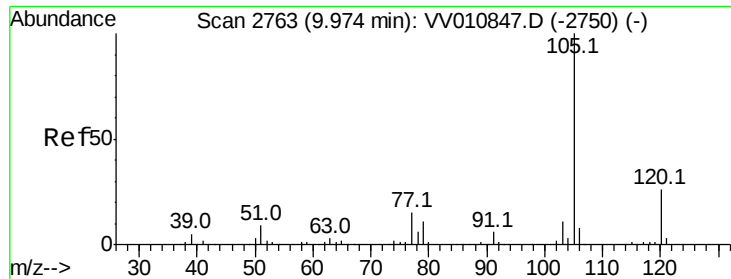
Tgt Ion:106 Resp: 201297
Ion Ratio Lower Upper
106 100
91 213.2 146.9 272.9



#56
Styrene
Concen: 51.824 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV010848.D
Acq: 13 May 2019 19:42

Tgt Ion:104 Resp: 355737
Ion Ratio Lower Upper
104 100
78 43.3 30.0 55.8





#57

Isopropylbenzene

Concen: 46.745 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

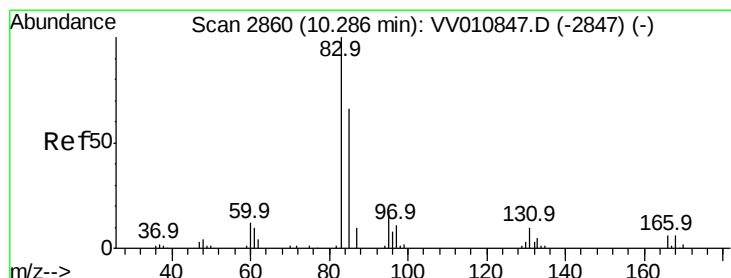
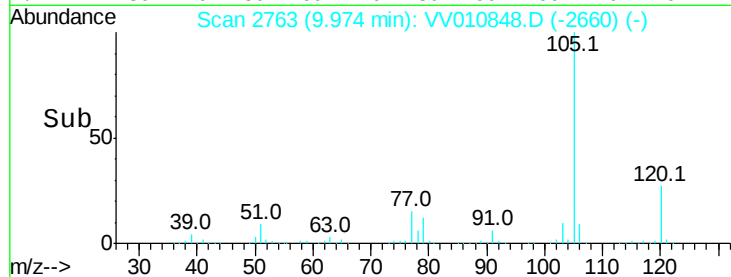
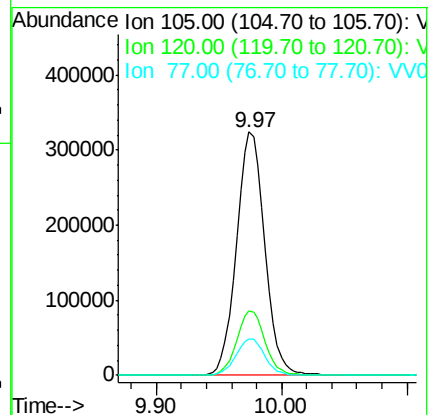
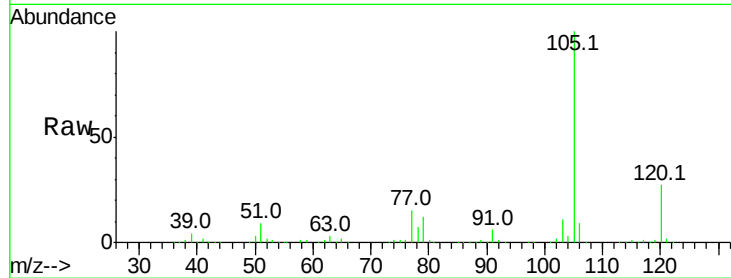
Tgt Ion:105 Resp: 506165

Ion Ratio Lower Upper

105 100

120 26.5 21.0 31.4

77 15.3 12.2 18.4



#58

1,1,2,2-Tetrachloroethane

Concen: 48.289 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

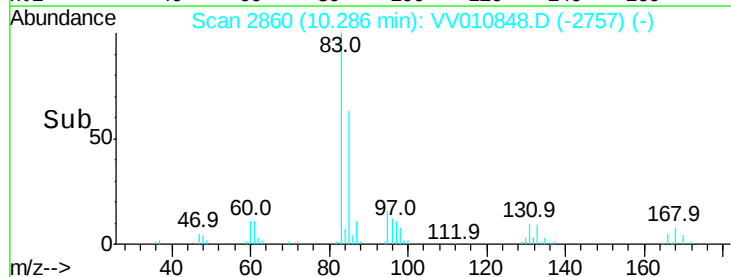
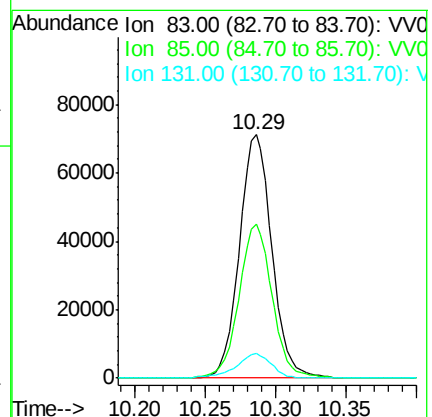
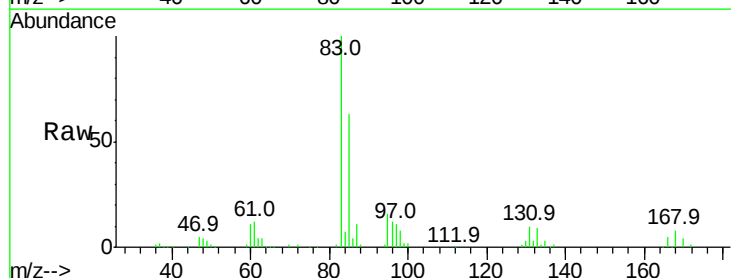
Tgt Ion: 83 Resp: 114982

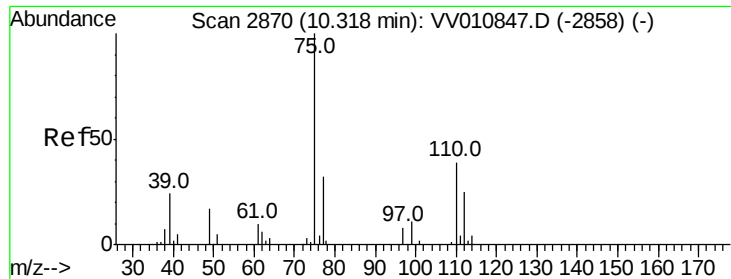
Ion Ratio Lower Upper

83 100

85 63.1 46.7 86.7

131 10.0 8.5 12.7





#59

1,2,3-Trichloropropane

Concen: 44.531 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

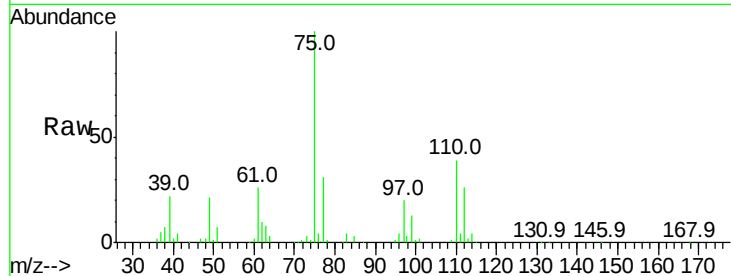
VSTD05065

Tgt Ion: 75 Resp: 82755

Ion Ratio Lower Upper

75 100

77 31.0 26.4 39.6

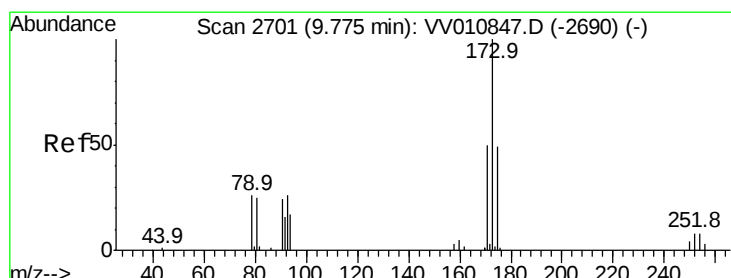
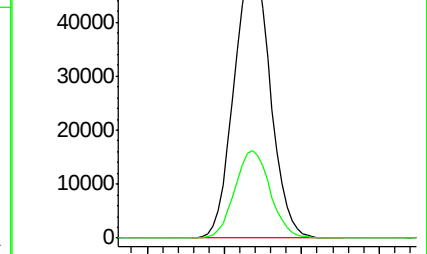
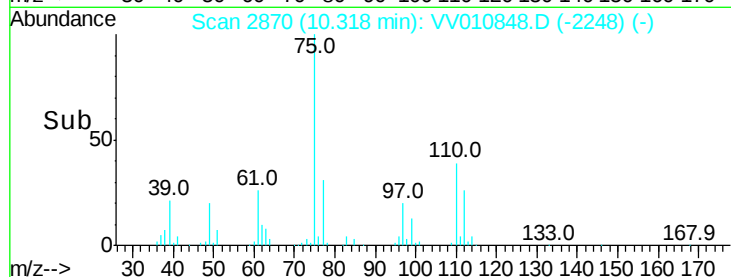


Abundance Ion 75.00 (74.70 to 75.70): VV010847.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV010847.D (-2858) (-)

10.32

Time-->



#62

Bromoform

Concen: 45.916 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

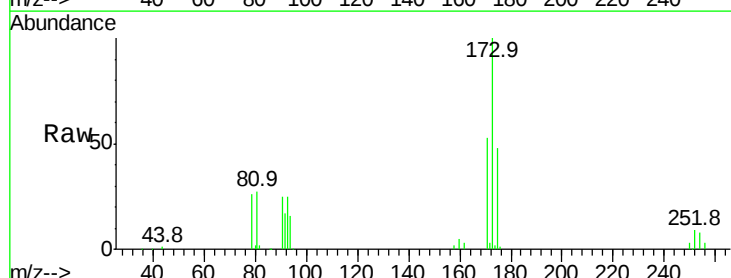
Tgt Ion: 173 Resp: 55343

Ion Ratio Lower Upper

173 100

175 47.4 38.1 57.1

254 8.1 5.4 8.2



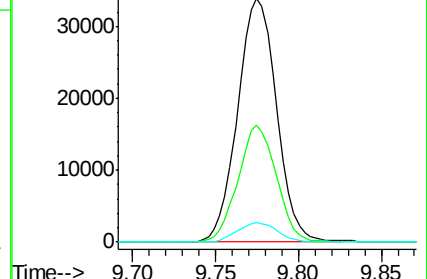
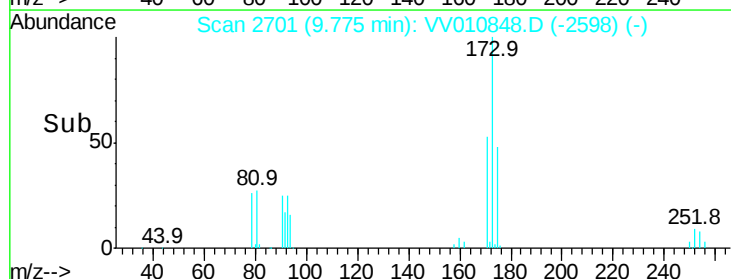
Abundance Ion 173.00 (172.70 to 173.70): VV010847.D (-2690) (-)

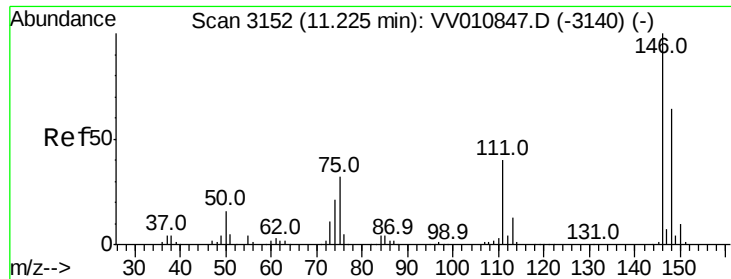
Ion 175.00 (174.70 to 175.70): VV010847.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV010847.D (-2690) (-)

9.77

Time-->

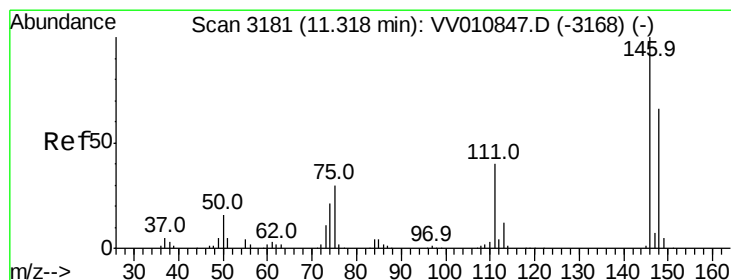
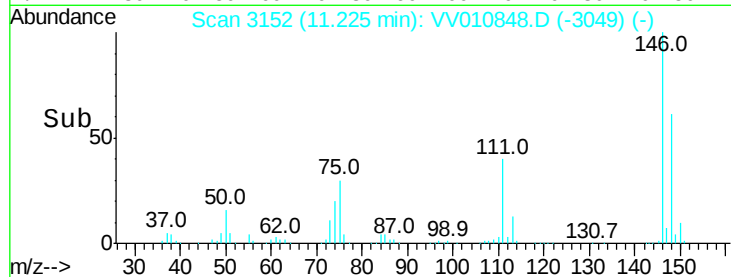
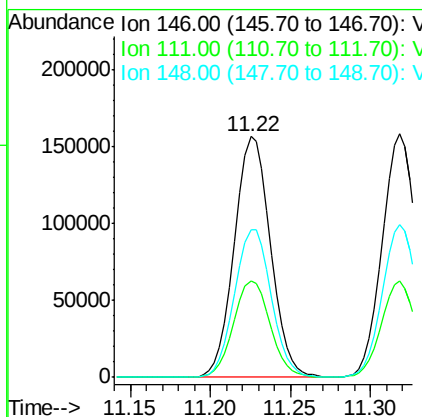
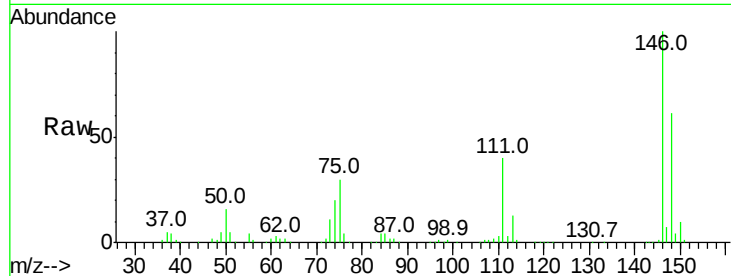




#63
 1,3-Dichlorobenzene
 Concen: 48.991 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV010848.D
 Acq: 13 May 2019 19:42

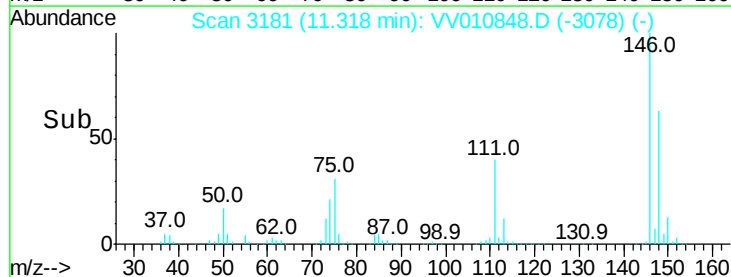
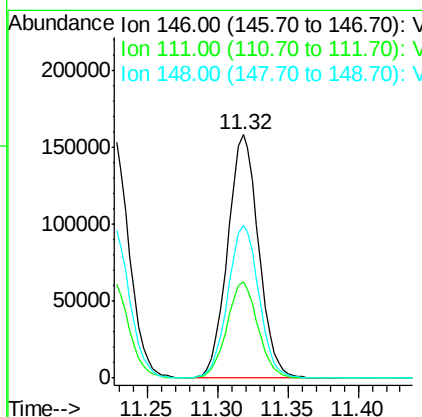
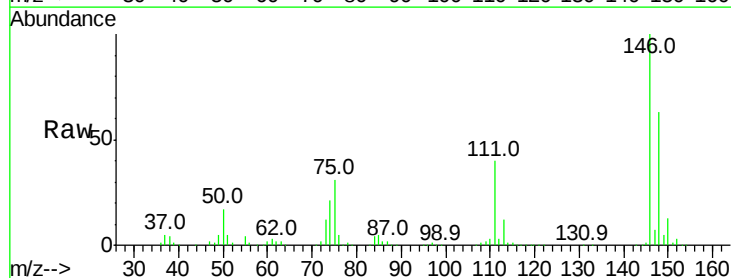
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

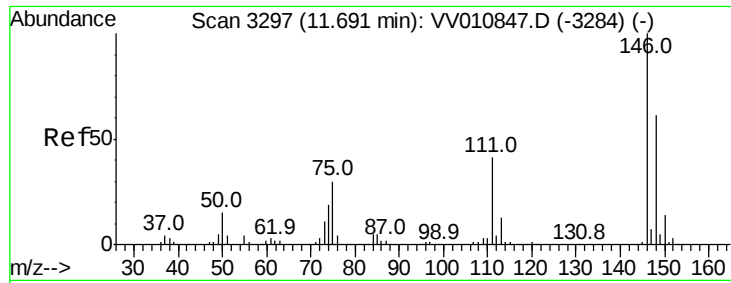
Tgt Ion:146 Resp: 241386
 Ion Ratio Lower Upper
 146 100
 111 40.1 28.1 52.1
 148 61.4 44.4 82.5



#64
 1,4-Dichlorobenzene
 Concen: 48.342 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV010848.D
 Acq: 13 May 2019 19:42

Tgt Ion:146 Resp: 243302
 Ion Ratio Lower Upper
 146 100
 111 39.6 27.9 51.7
 148 62.6 45.9 85.3





#65

1,2-Dichlorobenzene

Concen: 49.713 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

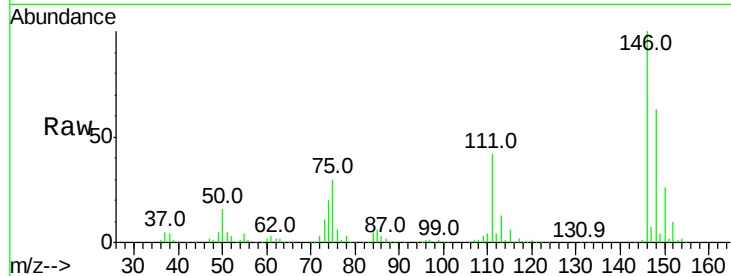
Tgt Ion:146 Resp: 237902

Ion Ratio Lower Upper

146 100

111 41.8 33.4 50.0

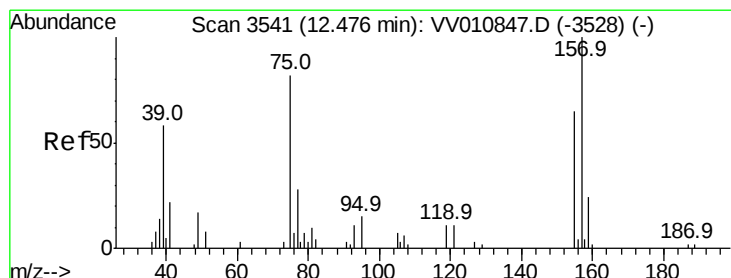
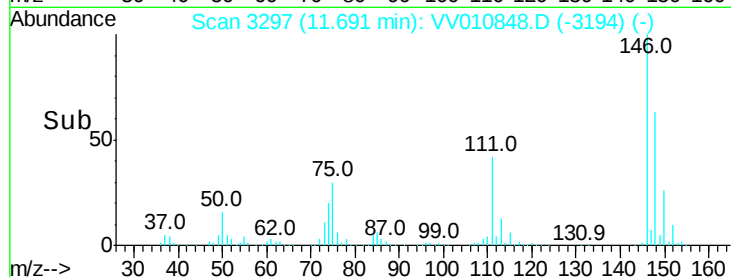
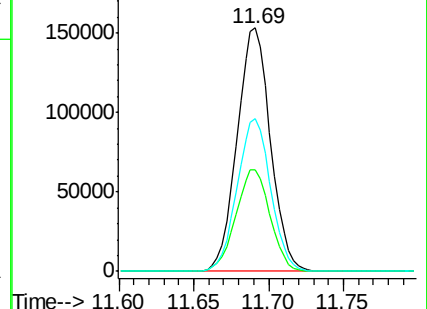
148 62.6 49.1 73.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 39.144 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

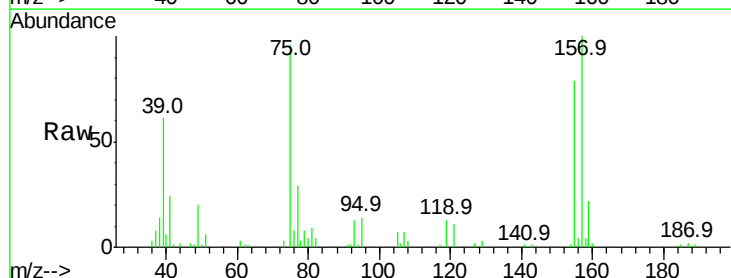
Tgt Ion: 75 Resp: 17382

Ion Ratio Lower Upper

75 100

157 104.3 97.6 146.4

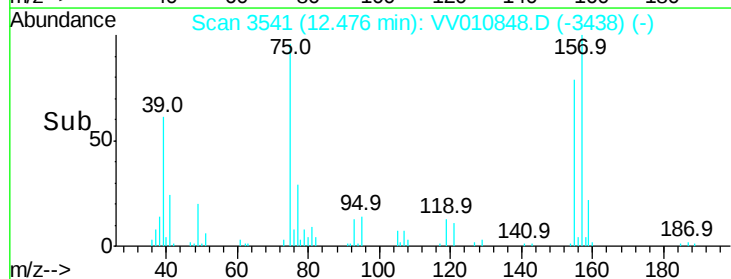
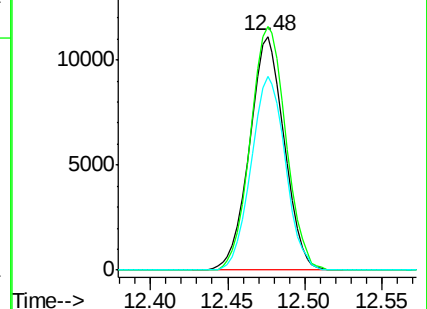
155 82.8 63.6 95.4

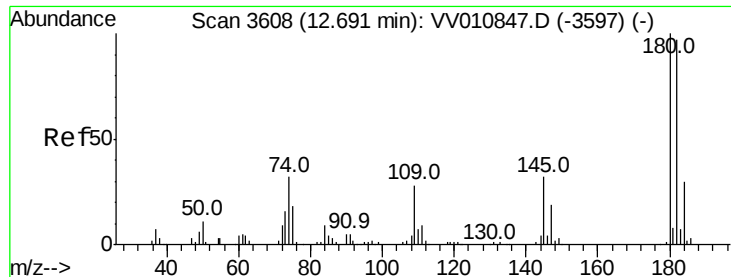


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

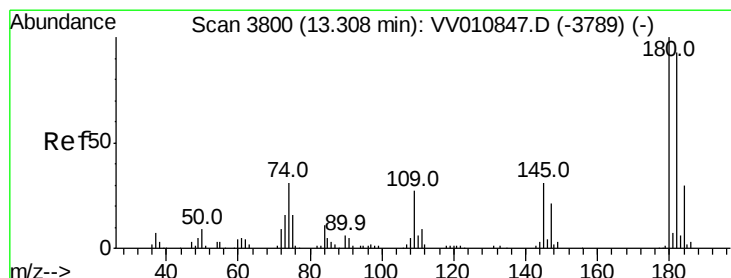
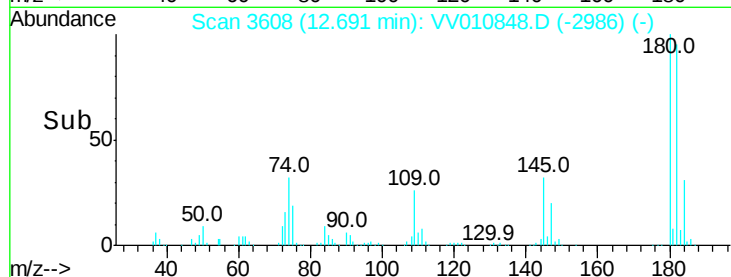
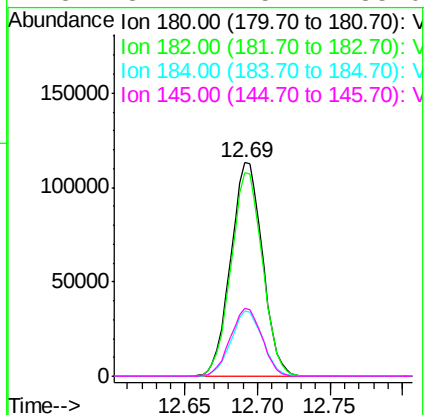
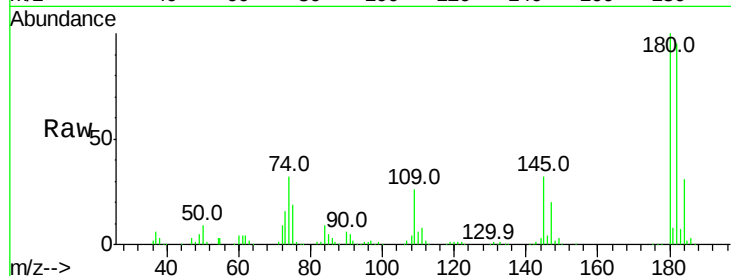




#67
 1,3,5-Trichlorobenzene
 Concen: 48.386 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV010848.D
 Acq: 13 May 2019 19:42

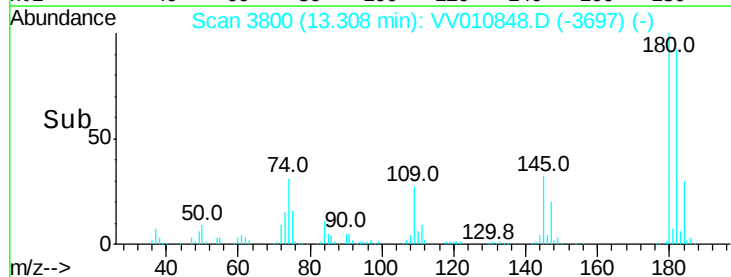
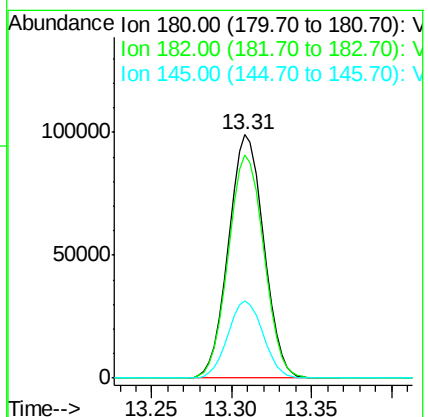
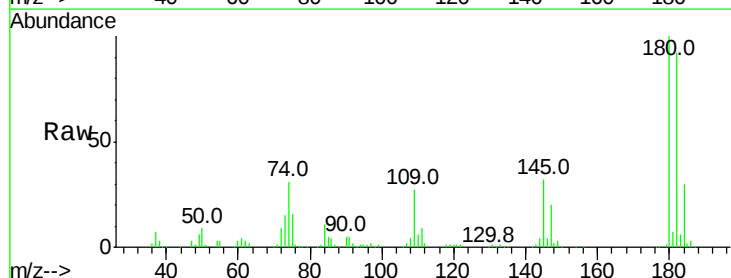
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05065

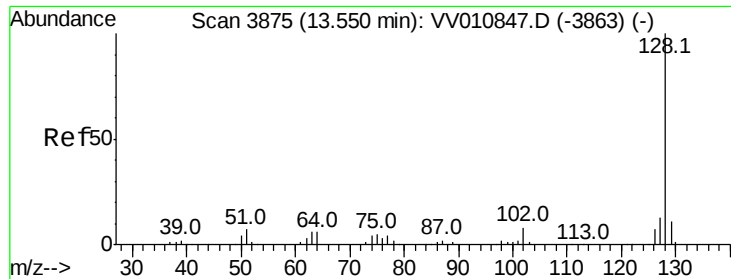
Tgt Ion:180 Resp: 171734
 Ion Ratio Lower Upper
 180 100
 182 94.4 75.9 113.9
 184 30.2 24.1 36.1
 145 31.7 25.4 38.0



#68
 1,2,4-trichlorobenzene
 Concen: 54.029 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV010848.D
 Acq: 13 May 2019 19:42

Tgt Ion:180 Resp: 148373
 Ion Ratio Lower Upper
 180 100
 182 92.7 74.2 111.2
 145 31.7 25.4 38.0





#69

Naphthalene

Concen: 55.826 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Instrument :

MSVOA_V

ClientSampleId :

VSTD05065

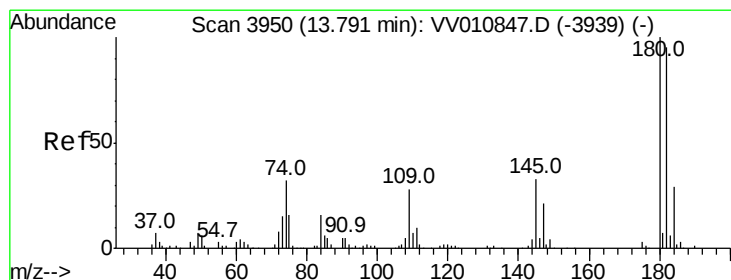
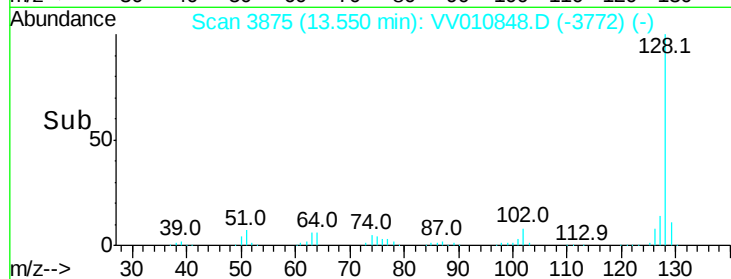
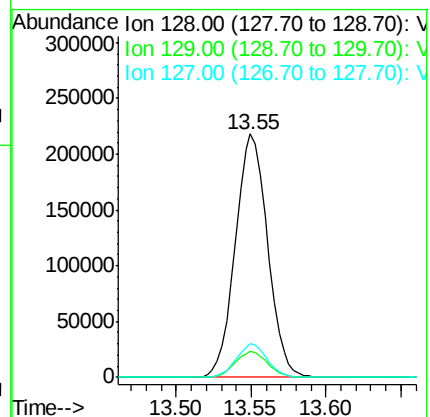
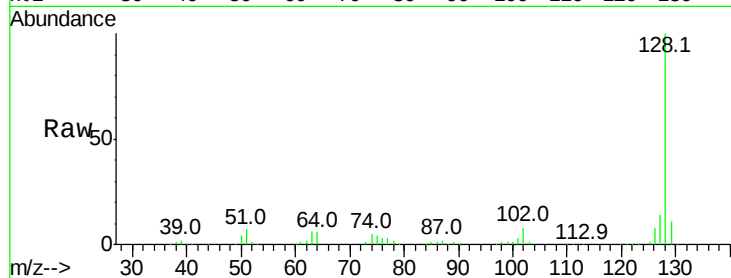
Tgt Ion:128 Resp: 328155

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

127 13.1 10.5 15.7



#70

1,2,3-Trichlorobenzene

Concen: 54.446 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV010848.D

Acq: 13 May 2019 19:42

Tgt Ion:180 Resp: 140253

Ion Ratio Lower Upper

180 100

182 95.3 75.8 113.6

145 34.5 26.8 40.2

