

Data File : VV011060.D
Acq On : 28 May 2019 11:56
Operator : SY/MD
Sample : VSTD05077
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05069

Quant Time: May 28 12:49:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis
QLast Update : Tue May 28 11:51:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	493677	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	480361	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	233785	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	314428	55.87	ug/L	0.00
7) Chloroethane-d5	1.56	69	228259	59.90	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	613546	56.70	ug/L	0.00
20) 2-Butanone-d5	3.93	46	251806	129.66	ug/L	0.00
24) Chloroform-d	4.40	84	607456	47.50	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	393517	52.22	ug/L	0.00
29) Benzene-d6	5.09	84	1378439	52.56	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.11	67	455119	54.61	ug/L	0.00
37) Toluene-d8	7.36	98	1281725	52.57	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	217382	63.54	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	200038	128.71	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	389068	46.77	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	447831	47.18	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	415658	57.030	ug/L	99
3) Chloromethane	1.25	50	425253	64.414	ug/L	99
5) Vinyl chloride	1.32	62	375228	56.591	ug/L	100
6) Bromomethane	1.51	94	166859	72.173	ug/L	98
8) Chloroethane	1.58	64	205043	61.800	ug/L	99
9) Trichlorofluoromethane	1.76	101	504379	47.727	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	257361	42.706	ug/L	99
12) 1,1-Dichloroethene	2.13	96	245414	47.108	ug/L	99
13) Acetone	2.19	43	278561	148.743	ug/L	100
14) Carbon disulfide	2.31	76	835366	57.260	ug/L	99
15) Methyl Acetate	2.46	43	180320	50.113	ug/L	# 100
16) Methylene chloride	2.53	84	360131	42.507	ug/L	100
17) Methyl tert-butyl Ether	2.80	73	971403	52.698	ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	345162	48.027	ug/L	99
19) 1,1-Dichloroethane	3.22	63	676764	51.717	ug/L	98
21) 2-Butanone	4.02	43	377974	147.484	ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	392829	49.092	ug/L	98
23) Bromochloromethane	4.29	128	166389	43.877	ug/L	99
25) Chloroform	4.42	83	711704	48.064	ug/L	99
27) 1,2-Dichloroethane	5.18	62	485713	53.360	ug/L	99
30) Cyclohexane	4.72	56	671244	67.249	ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	548850	50.793	ug/L	99
32) Carbon tetrachloride	4.87	117	464406	47.129	ug/L	100
34) Benzene	5.14	78	1452525	52.455	ug/L	100
35) Trichloroethene	5.96	95	376398	49.196	ug/L	99
36) Methylcyclohexane	6.17	83	631680	55.847	ug/L	99
40) 1,2-Dichloropropane	6.22	63	391581	53.808	ug/L	100
41) Bromodichloromethane	6.55	83	514353	52.879	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	652867	60.271	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	676811	129.738	ug/L	100

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Quant Title : VOC Analysis
QLast Update : Tue May 28 11:51:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	1580272	51.425	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	558915	61.253	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	294521	47.494	ug/L	97
47) Tetrachloroethene	8.02	164	268864	45.019	ug/L	99
49) 2-Hexanone	8.18	43	556076	145.994	ug/L	97
50) Dibromochloromethane	8.29	129	352509	48.296	ug/L	99
51) 1,2-Dibromoethane	8.40	107	284356	47.417	ug/L	99
52) Chlorobenzene	8.92	112	993477	47.167	ug/L	99
53) Ethylbenzene	9.05	91	1792960	53.547	ug/L	100
54) m,p-Xylene	9.18	106	668170	51.199	ug/L	100
55) o-xylene	9.59	106	659260	52.949	ug/L	98
56) Styrene	9.60	104	1142152	53.226	ug/L	99
57) Isopropylbenzene	9.97	105	1726540	52.565	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	382864	46.889	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	295481	49.262	ug/L	99
62) Bromoform	9.77	173	201677	48.595	ug/L	99
63) 1,3-Dichlorobenzene	11.23	146	760119	47.670	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	758918	46.214	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	713776	46.166	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	73156	59.562	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	569995	48.730	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	481062	52.034	ug/L	99
69) Naphthalene	13.55	128	1061946	57.301	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	443685	49.158	ug/L	100

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

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```
ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD05069

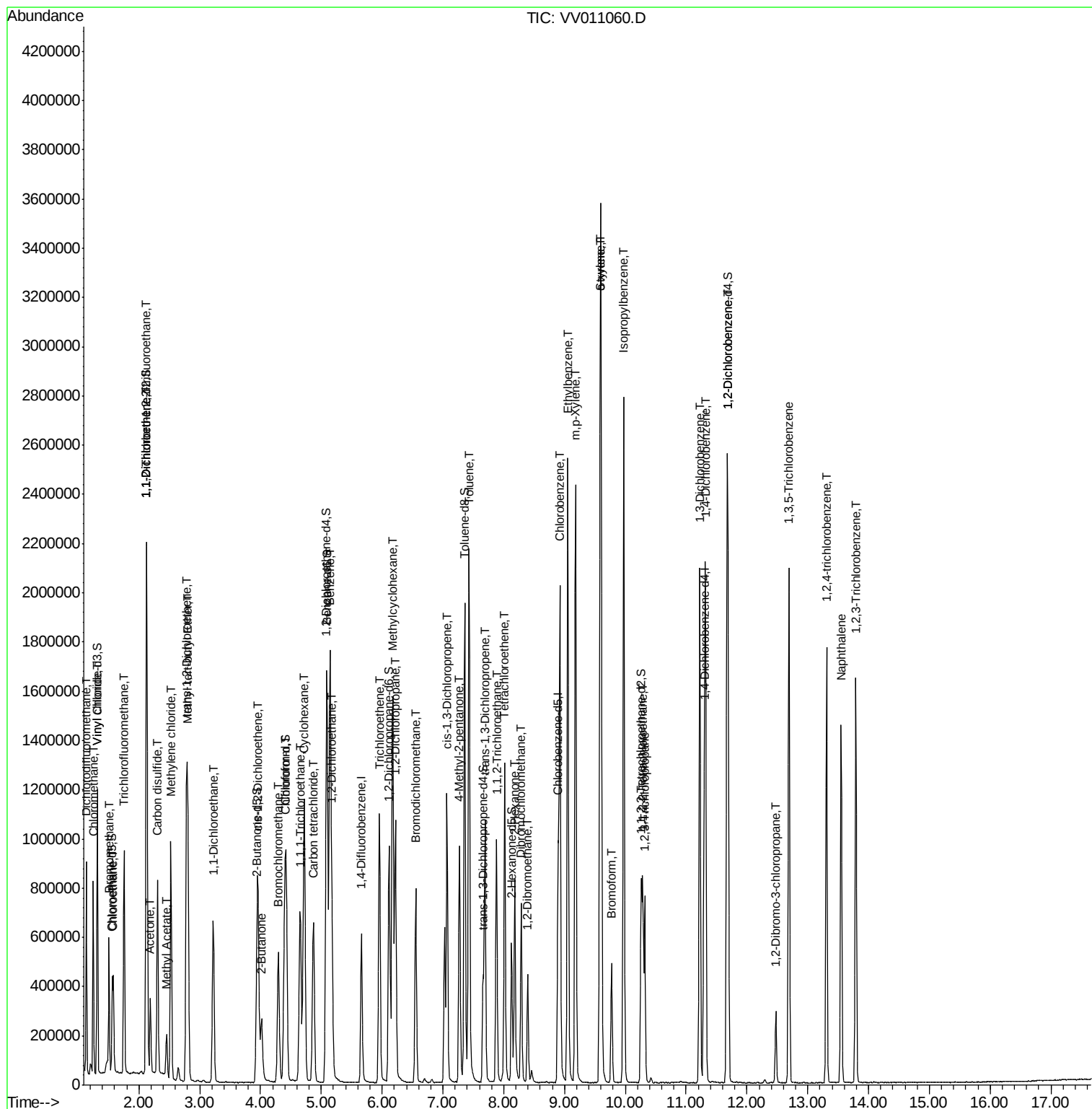
Quant Time: May 28 12:49:15 2019

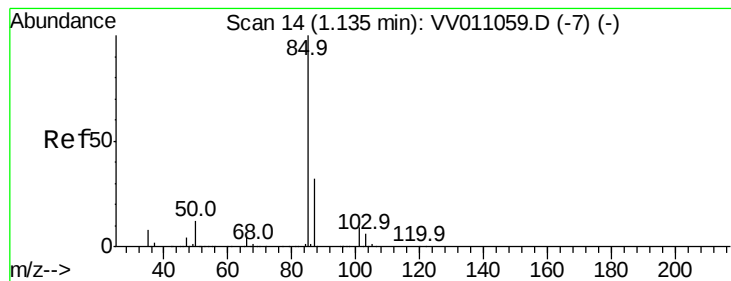
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM052819S.M

Quant Title : VOC Analysis

QLast Update : Tue May 28 11:51:54 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 57.030 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

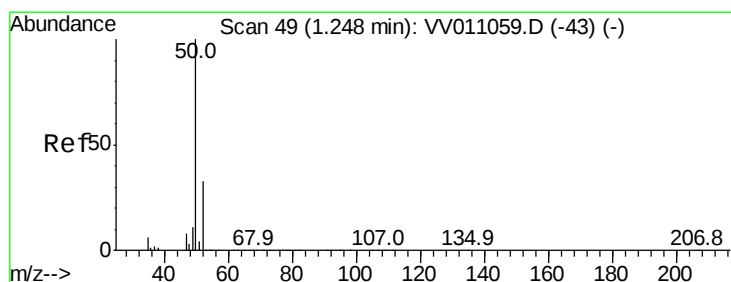
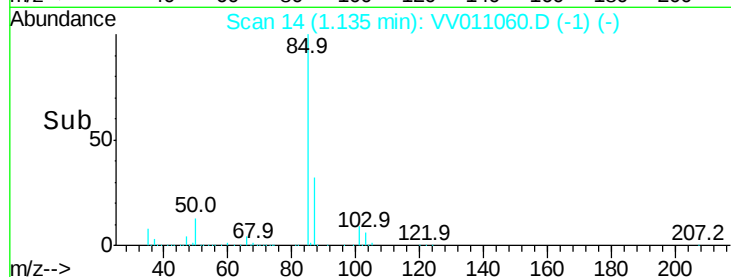
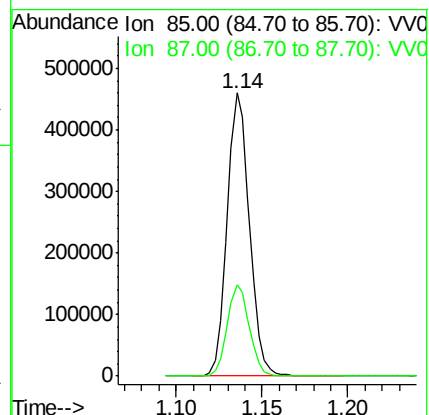
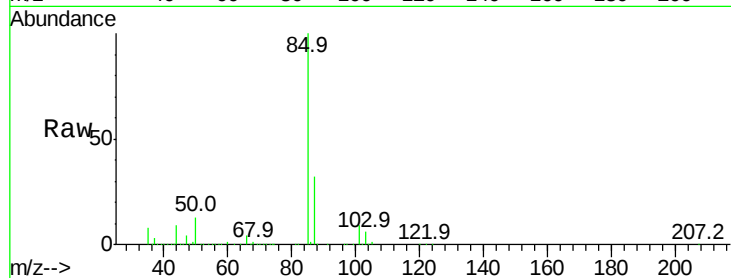
VSTD05069

Tgt Ion: 85 Resp: 415658

Ion Ratio Lower Upper

85 100

87 31.9 22.5 41.9



#3

Chloromethane

Concen: 64.414 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV011060.D

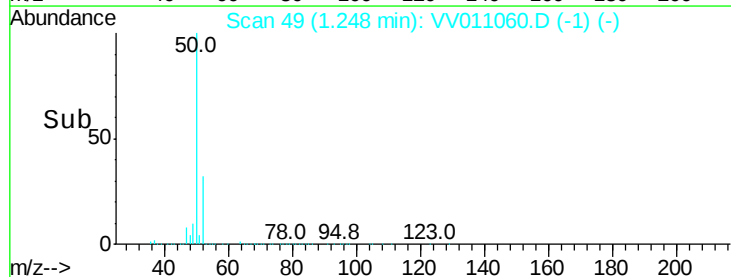
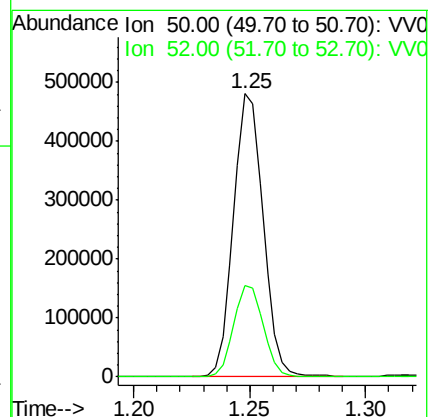
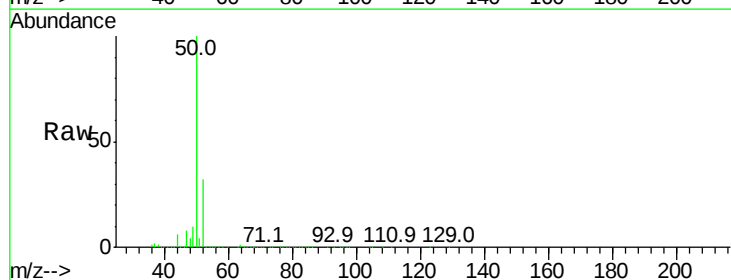
Acq: 28 May 2019 11:56

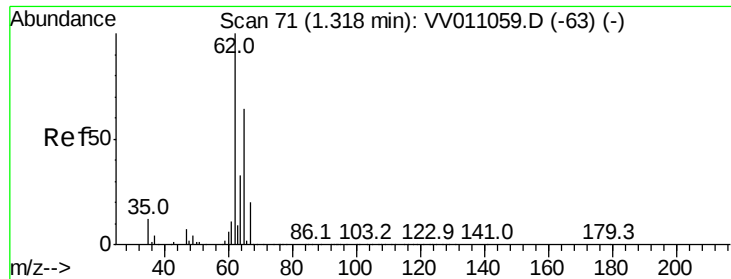
Tgt Ion: 50 Resp: 425253

Ion Ratio Lower Upper

50 100

52 32.3 22.9 42.5





#5

Vinyl chloride

Concen: 56.591 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

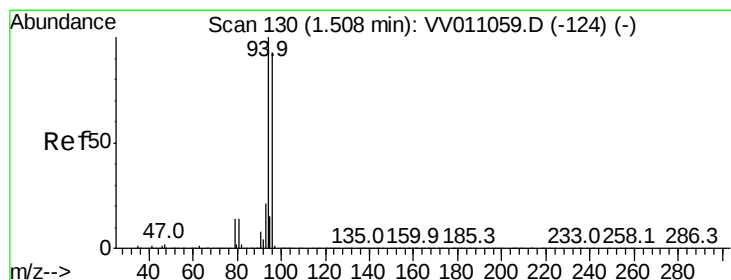
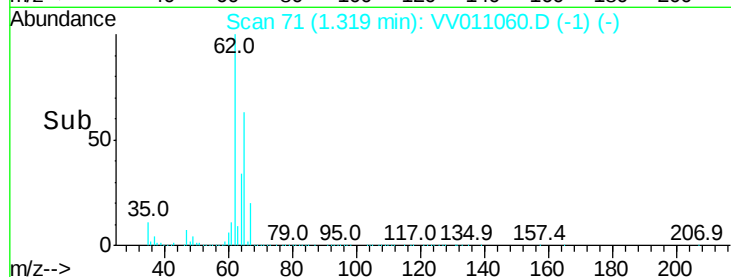
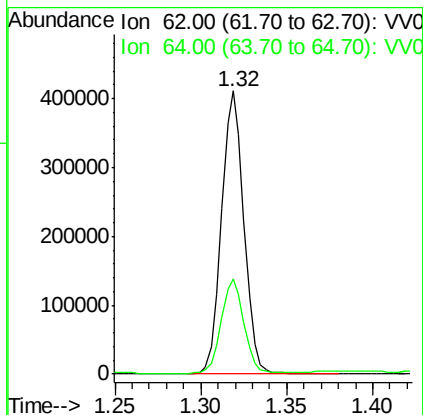
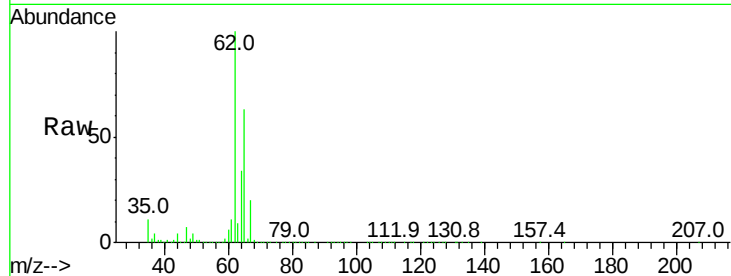
VSTD05069

Tgt Ion: 62 Resp: 375228

Ion Ratio Lower Upper

62 100

64 33.5 23.4 43.6



#6

Bromomethane

Concen: 72.173 ug/L

RT: 1.51 min Scan# 130

Delta R.T. 0.00 min

Lab File: VV011060.D

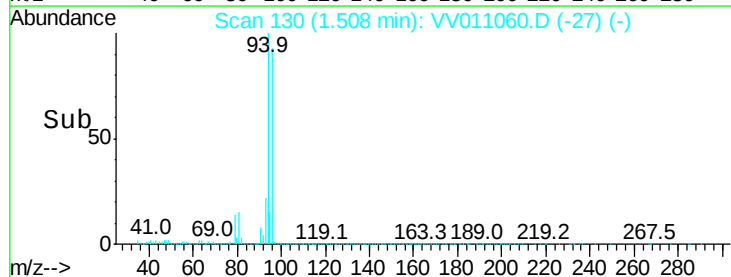
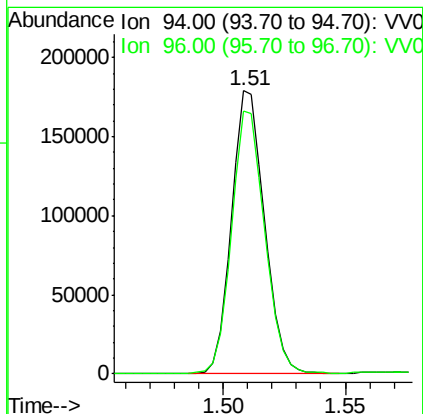
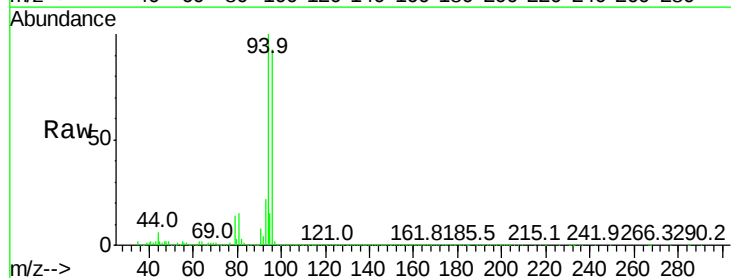
Acq: 28 May 2019 11:56

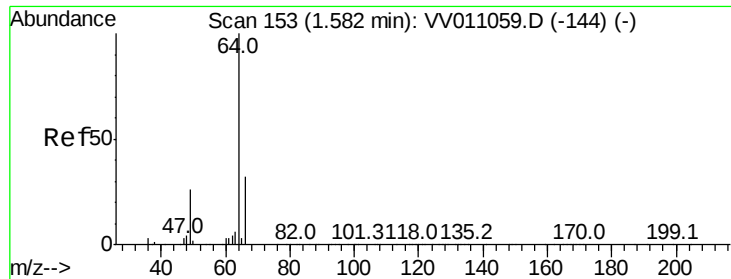
Tgt Ion: 94 Resp: 166859

Ion Ratio Lower Upper

94 100

96 92.9 9.5 179.7

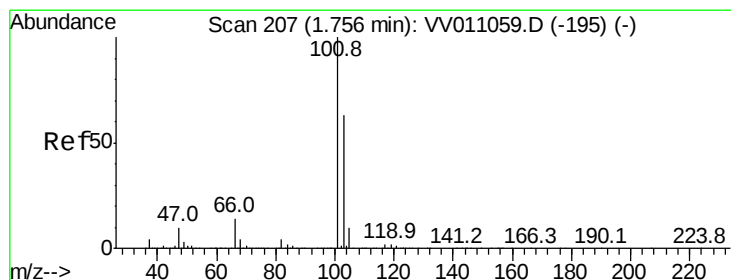
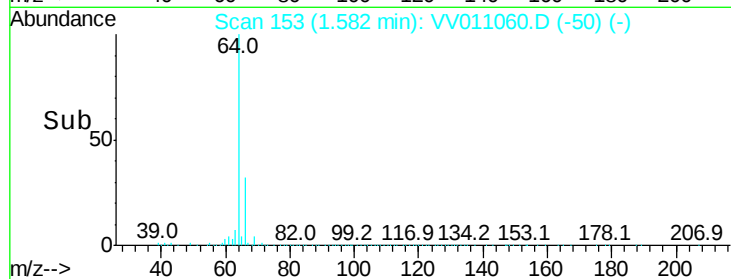
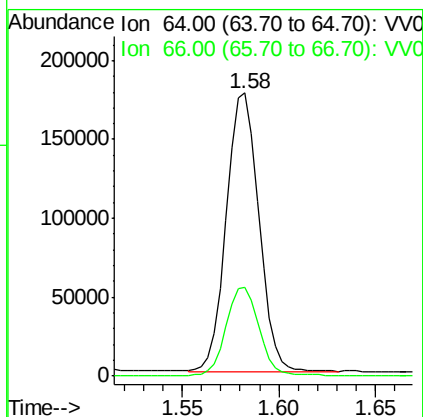
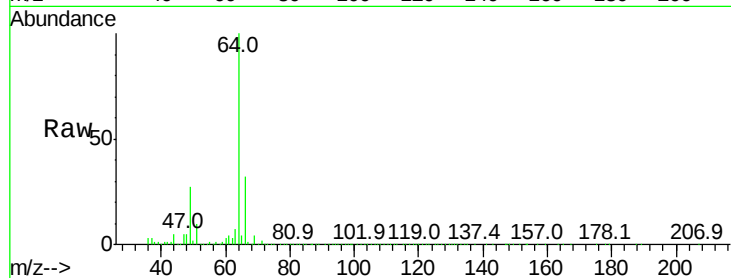




#8
Chloroethane
Concen: 61.800 ug/L
RT: 1.58 min Scan# 153
Delta R.T. 0.00 min
Lab File: VV011060.D
Acq: 28 May 2019 11:56

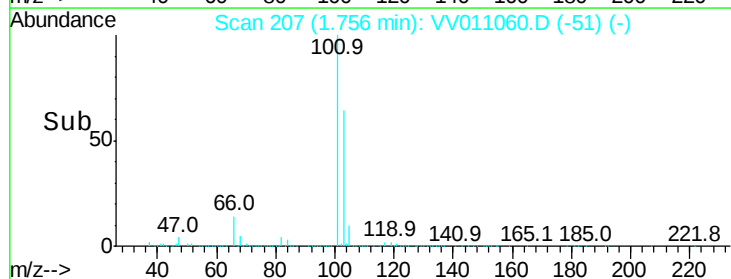
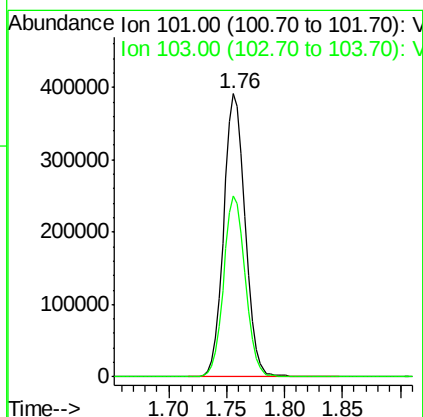
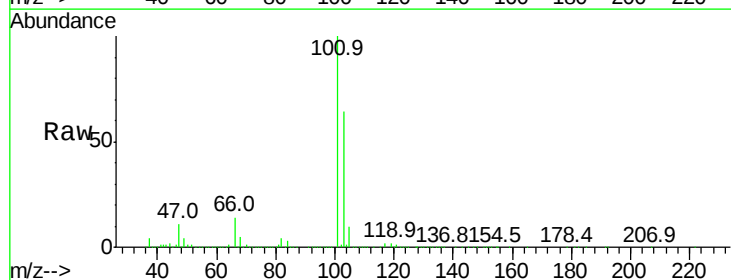
Instrument :
MSVOA_V
ClientSampleId :
VSTD05069

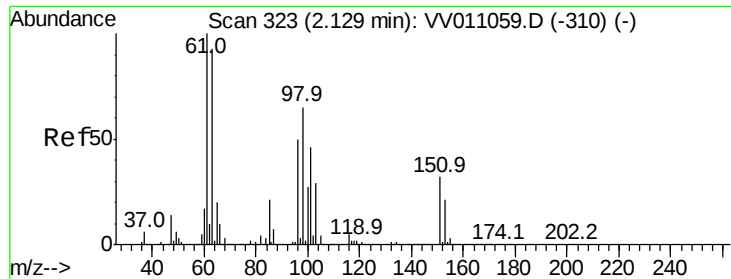
Tgt Ion: 64 Resp: 205043
Ion Ratio Lower Upper
64 100
66 31.6 21.7 40.3



#9
Trichlorofluoromethane
Concen: 47.727 ug/L
RT: 1.76 min Scan# 207
Delta R.T. 0.00 min
Lab File: VV011060.D
Acq: 28 May 2019 11:56

Tgt Ion: 101 Resp: 504379
Ion Ratio Lower Upper
101 100
103 64.6 44.4 82.4





#11

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

Concen: 42.706 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD05069

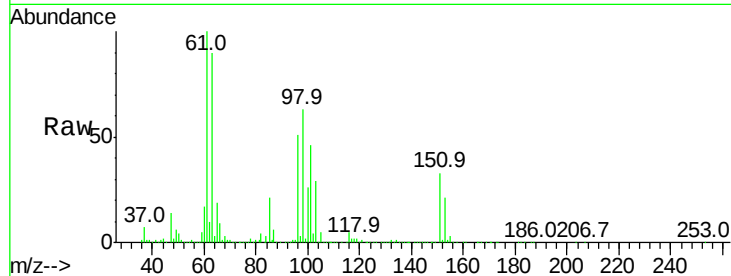
Tgt Ion:101 Resp: 257361

Ion Ratio Lower Upper

101 100

85 45.7 36.1 54.1

151 71.6 56.6 85.0

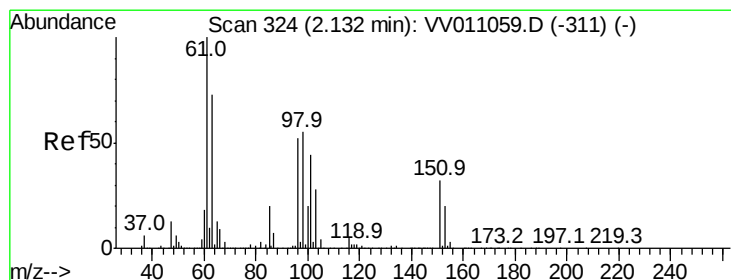
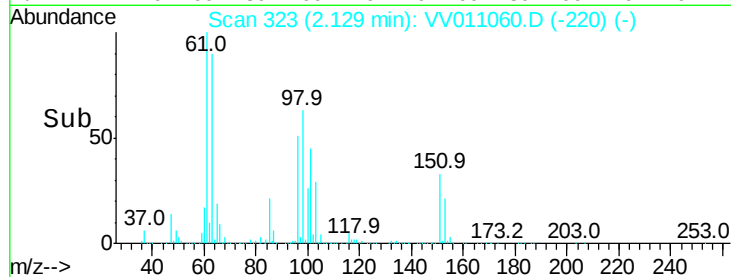
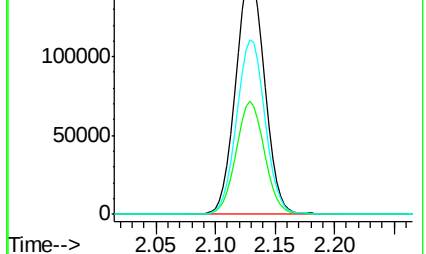


Abundance Ion 101.00 (100.70 to 101.70): VV011059.D (-310) (-)

Ion 85.00 (84.70 to 85.70): VV011059.D (-310) (-)

Ion 151.00 (150.70 to 151.70): VV011059.D (-310) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 47.108 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

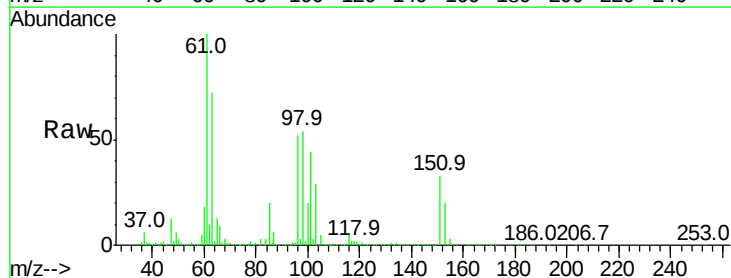
Tgt Ion: 96 Resp: 245414

Ion Ratio Lower Upper

96 100

61 190.9 134.1 249.1

63 136.7 98.1 182.3

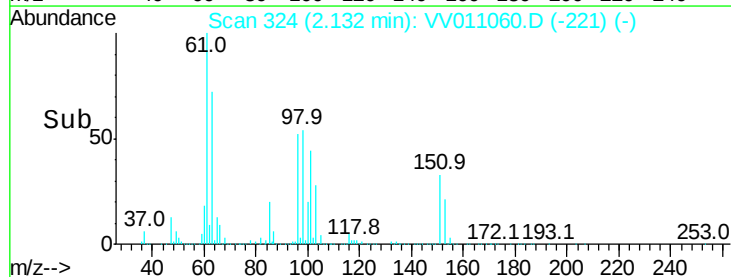
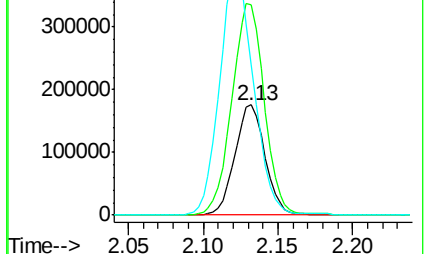


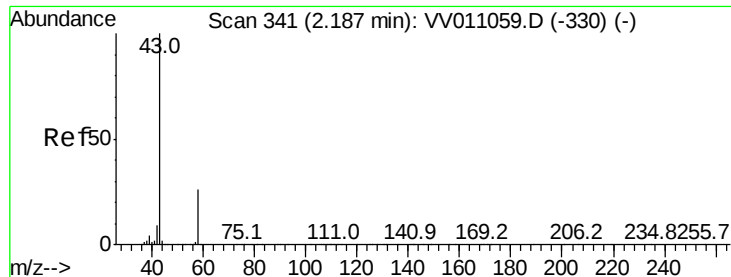
Abundance Ion 96.00 (95.70 to 96.70): VV011059.D (-311) (-)

Ion 61.00 (60.70 to 61.70): VV011059.D (-311) (-)

Ion 63.00 (62.70 to 63.70): VV011059.D (-311) (-)

Time-->





#13

Acetone

Concen: 148.743 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

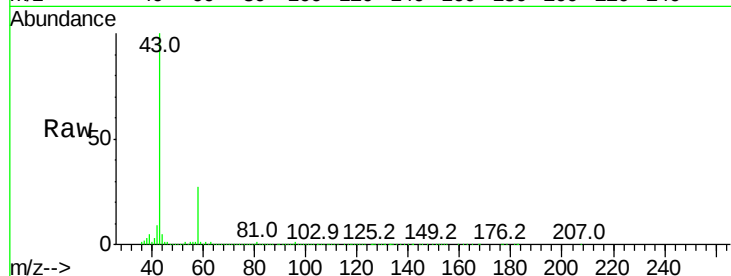
VSTD05069

Tgt Ion: 43 Resp: 278561

Ion Ratio Lower Upper

43 100

58 27.5 0.0 54.8



Abundance Ion 43.00 (42.70 to 43.70): VV011059.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV011059.D (-330) (-)

2.19

200000

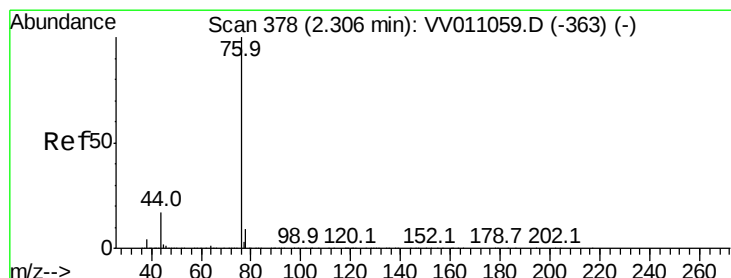
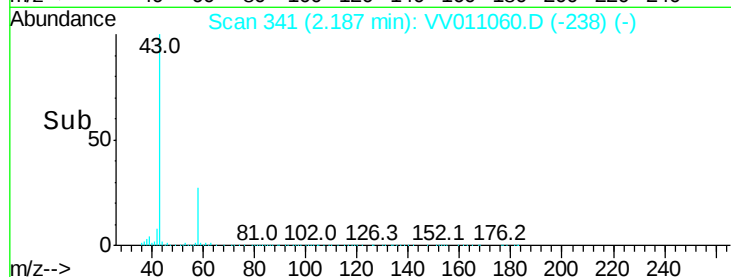
150000

100000

50000

0

Time-->



#14

Carbon disulfide

Concen: 57.260 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VV011060.D

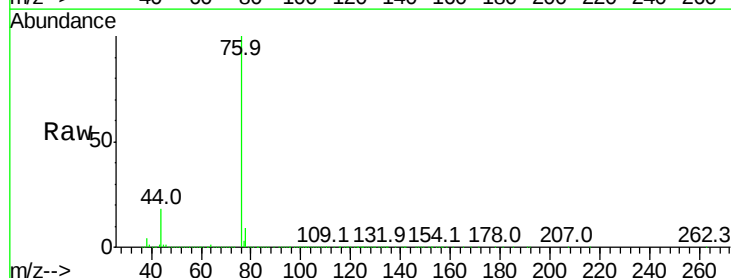
Acq: 28 May 2019 11:56

Tgt Ion: 76 Resp: 835366

Ion Ratio Lower Upper

76 100

78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV011059.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VV011059.D (-363) (-)

2.31

600000

500000

400000

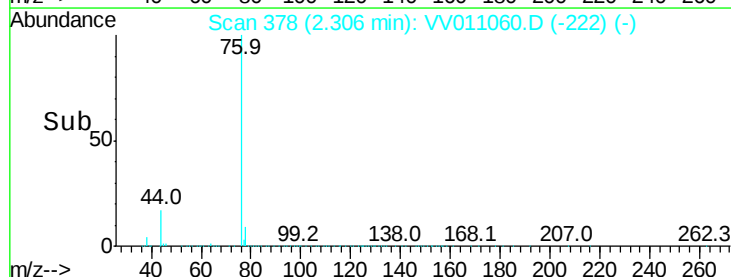
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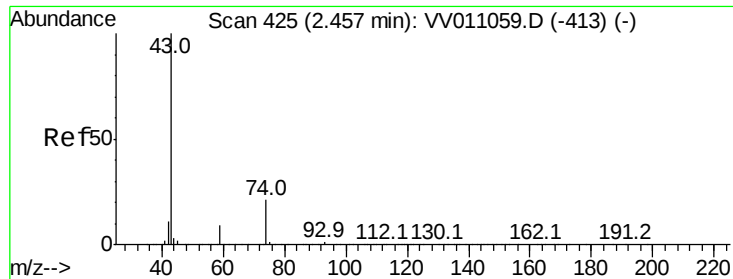
200000

100000

0

Time-->





#15

Methyl Acetate

Concen: 50.113 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

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ClientSampleId :

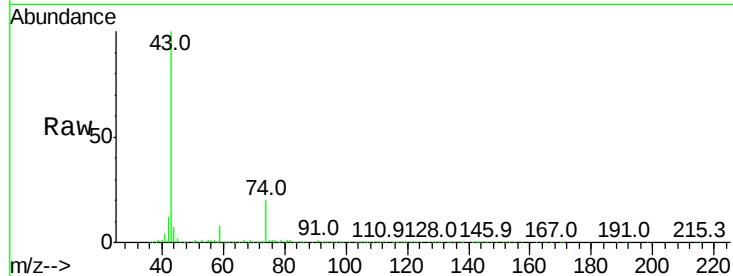
VSTD05069

Tgt Ion: 43 Resp: 180320

Ion Ratio Lower Upper

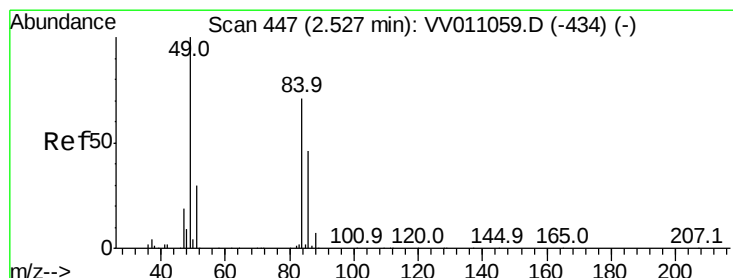
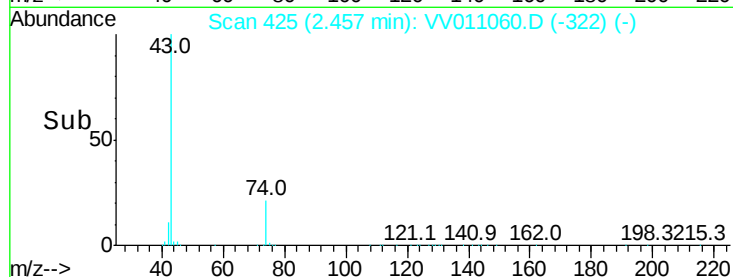
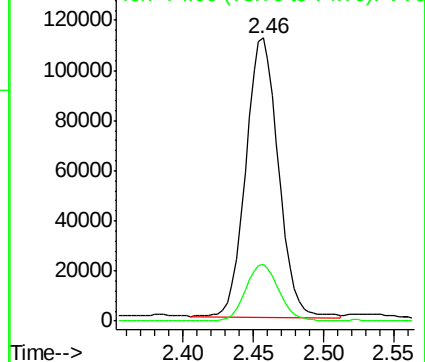
43 100

74 20.5 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 42.507 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

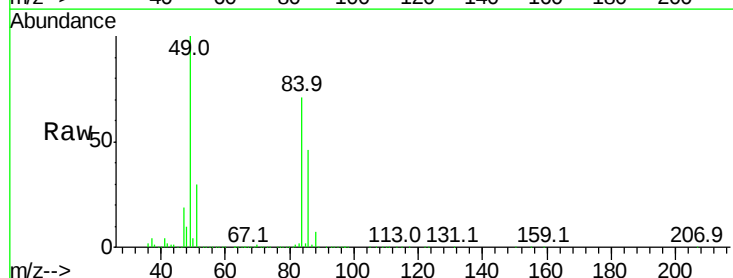
Tgt Ion: 84 Resp: 360131

Ion Ratio Lower Upper

84 100

49 140.3 98.0 182.0

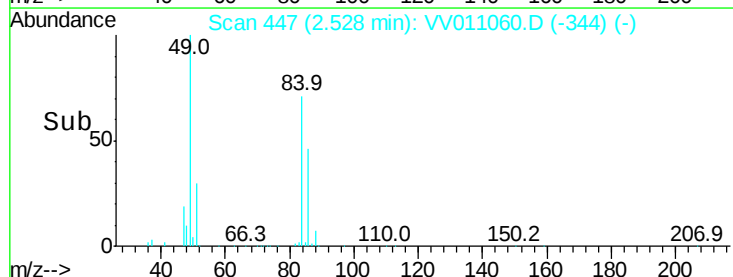
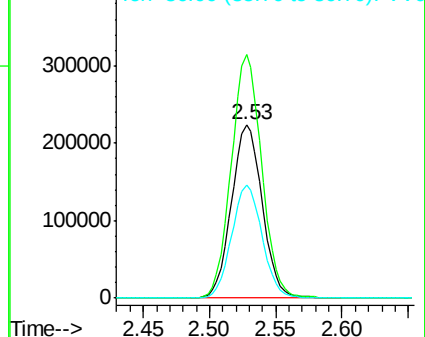
86 64.8 45.4 84.4

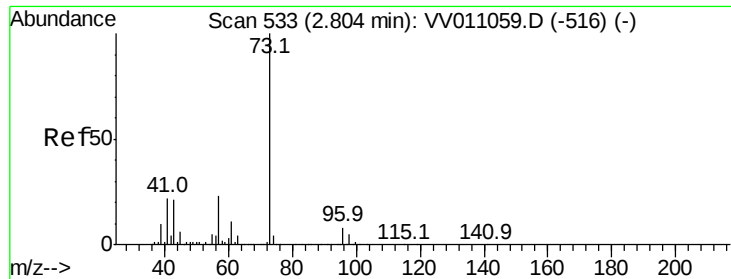


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

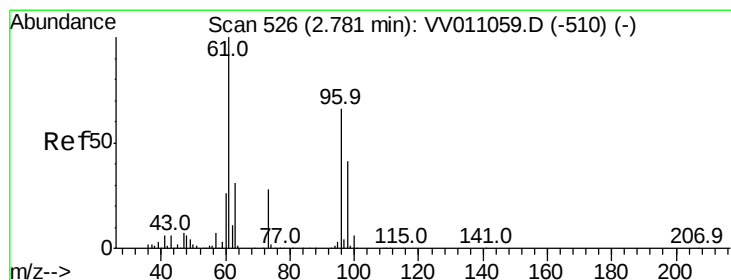
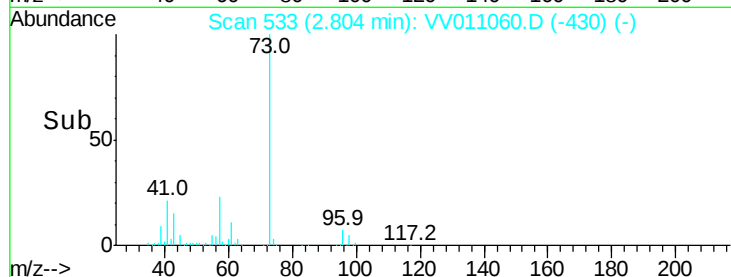
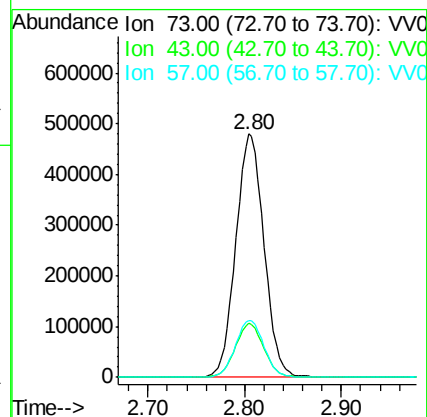
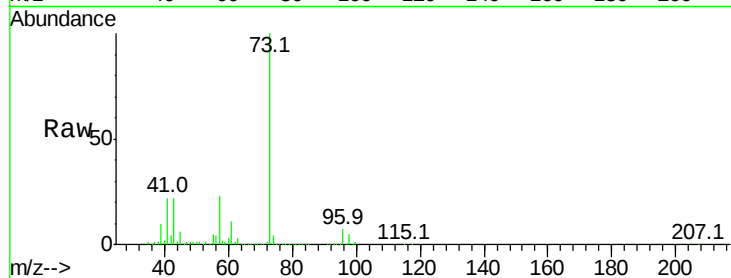




#17
Methyl tert-butyl Ether
Concen: 52.698 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV011060.D
Acq: 28 May 2019 11:56

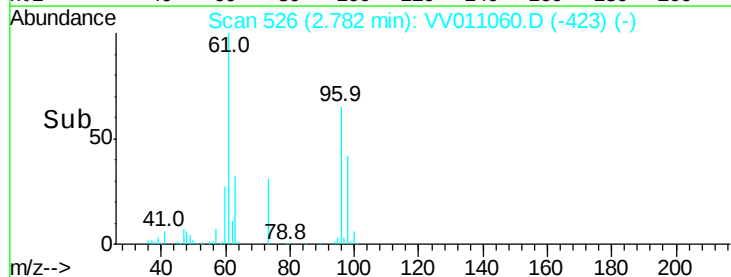
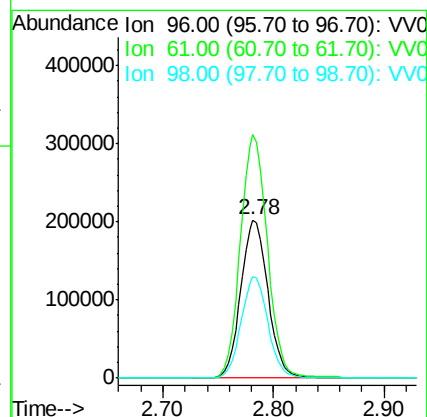
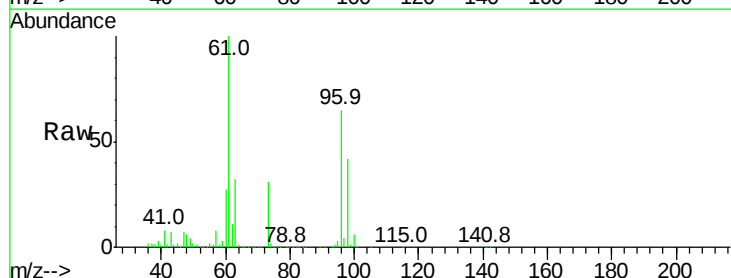
Instrument :
MSVOA_V
ClientSampleId :
VSTD05069

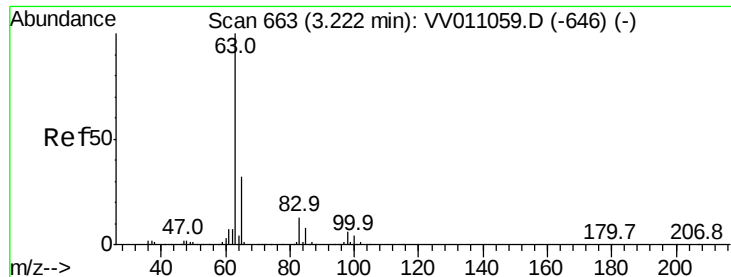
Tgt Ion: 73 Resp: 971403
Ion Ratio Lower Upper
73 100
43 22.1 17.2 25.8
57 23.6 18.5 27.7



#18
trans-1,2-Dichloroethene
Concen: 48.027 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.00 min
Lab File: VV011060.D
Acq: 28 May 2019 11:56

Tgt Ion: 96 Resp: 345162
Ion Ratio Lower Upper
96 100
61 153.7 106.5 197.9
98 64.3 44.0 81.8





#19

1,1-Dichloroethane

Concen: 51.717 ug/L

RT: 3.22 min Scan# 663

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD05069

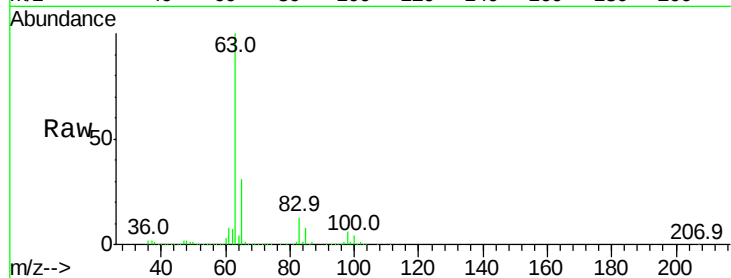
Tgt Ion: 63 Resp: 676764

Ion Ratio Lower Upper

63 100

65 31.0 22.4 41.6

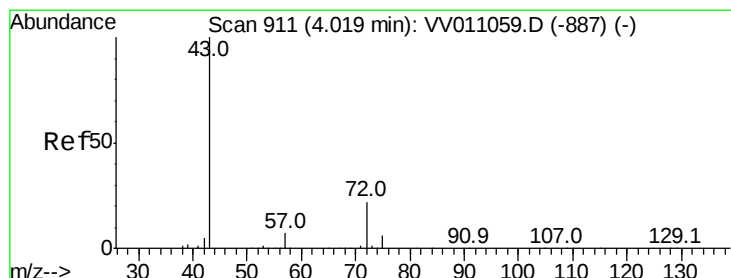
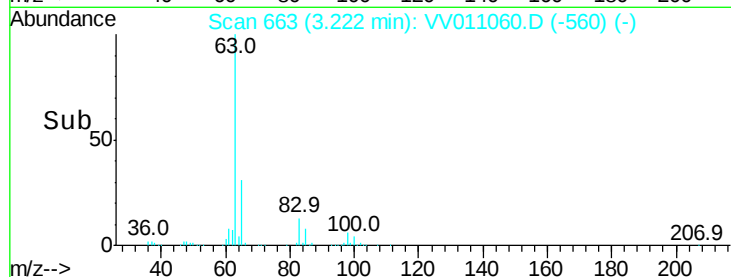
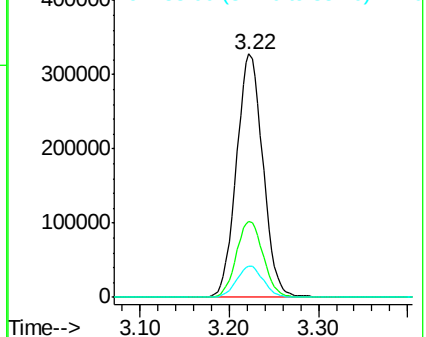
83 12.8 9.2 17.2



Abundance Ion 63.00 (62.70 to 63.70): VV011059.D (-646) (-)

Ion 65.00 (64.70 to 65.70): VV011059.D (-646) (-)

Ion 83.00 (82.70 to 83.70): VV011059.D (-646) (-)



#21

2-Butanone

Concen: 147.484 ug/L

RT: 4.02 min Scan# 910

Delta R.T. -0.00 min

Lab File: VV011060.D

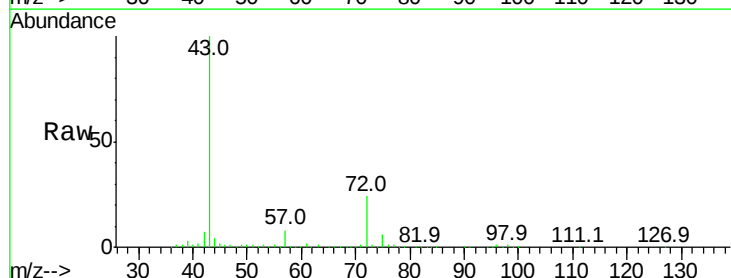
Acq: 28 May 2019 11:56

Tgt Ion: 43 Resp: 377974

Ion Ratio Lower Upper

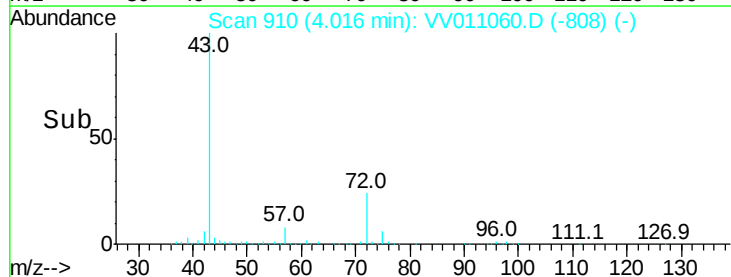
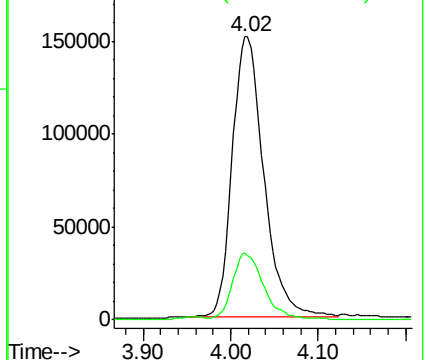
43 100

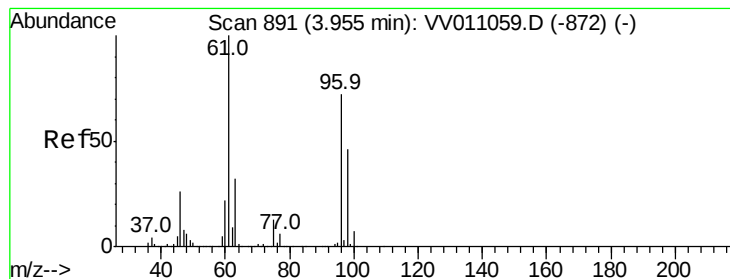
72 23.2 10.7 31.9



Abundance Ion 43.00 (42.70 to 43.70): VV011059.D (-887) (-)

Ion 72.00 (71.70 to 72.70): VV011059.D (-887) (-)



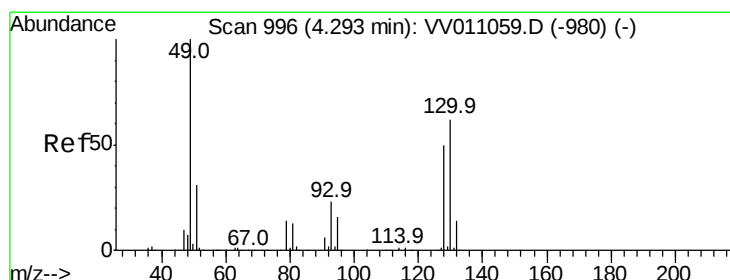
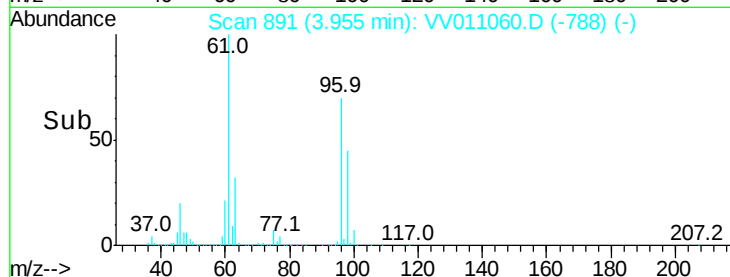
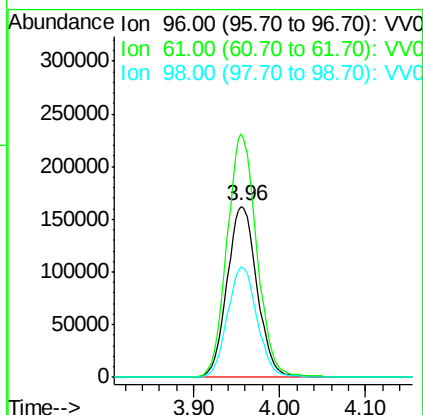
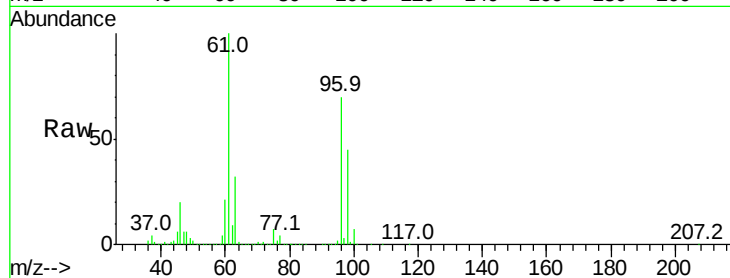


#22

cis-1,2-Dichloroethene
 Concen: 49.092 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05069

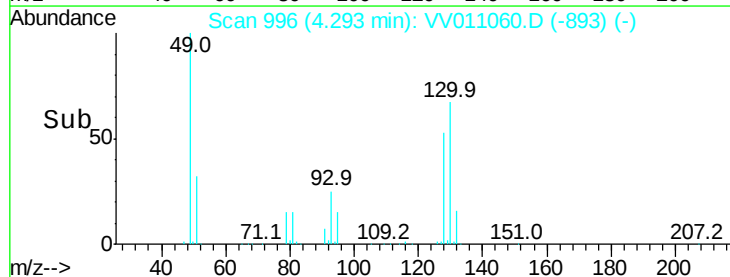
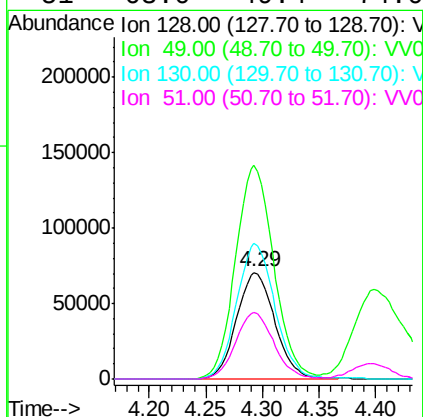
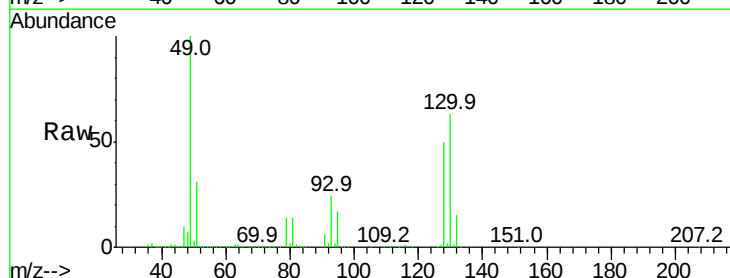
Tgt Ion: 96 Resp: 392829
 Ion Ratio Lower Upper
 96 100
 61 142.4 97.4 180.8
 98 64.3 44.4 82.5

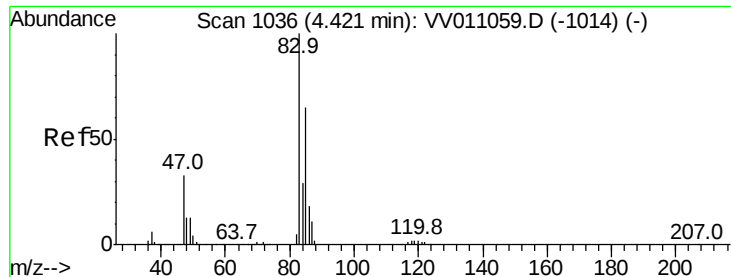


#23

Bromochloromethane
 Concen: 43.877 ug/L
 RT: 4.29 min Scan# 996
 Delta R.T. 0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

Tgt Ion: 128 Resp: 166389
 Ion Ratio Lower Upper
 128 100
 49 200.4 140.6 261.0
 130 127.1 87.2 162.0
 51 63.0 49.4 74.0





#25

Chloroform

Concen: 48.064 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

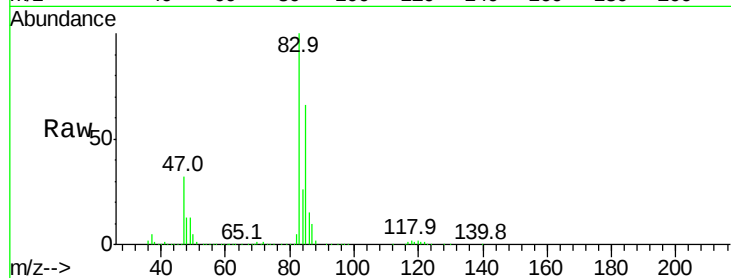
VSTD05069

Tgt Ion: 83 Resp: 711704

Ion Ratio Lower Upper

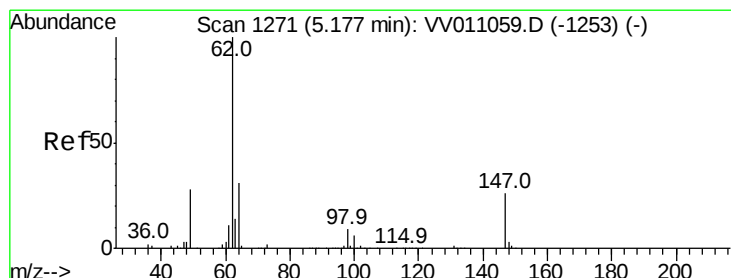
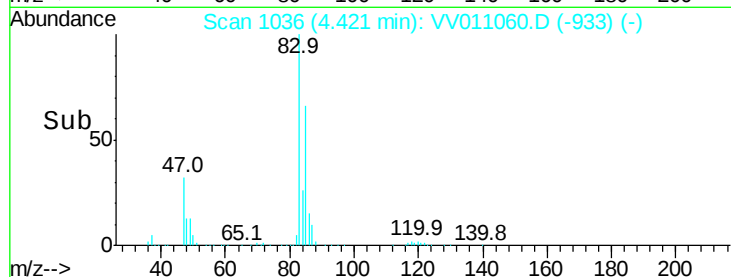
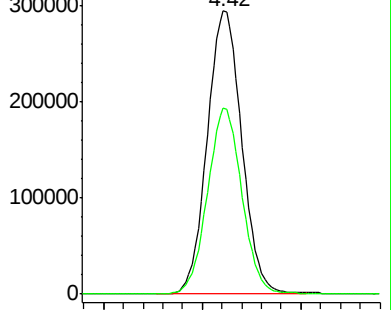
83 100

85 65.5 46.2 85.8



Abundance Ion 83.00 (82.70 to 83.70): VV011060.D (-933) (-)

Ion 85.00 (84.70 to 85.70): VV011060.D (-933) (-)



#27

1,2-Dichloroethane

Concen: 53.360 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV011060.D

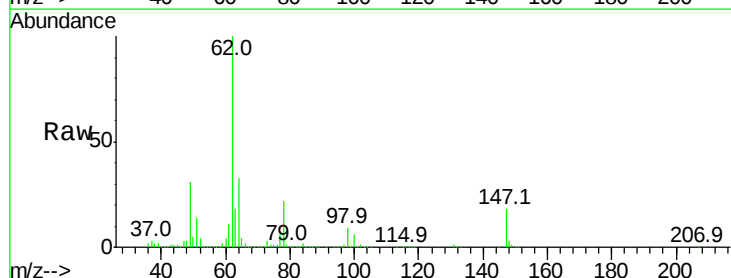
Acq: 28 May 2019 11:56

Tgt Ion: 62 Resp: 485713

Ion Ratio Lower Upper

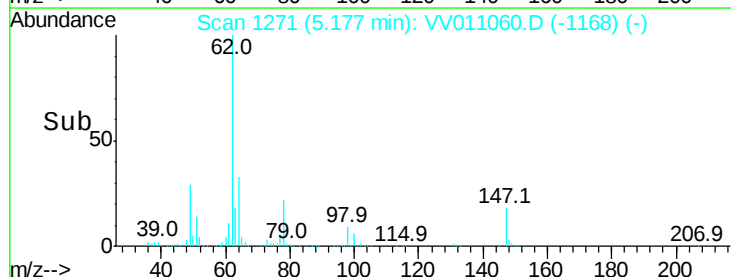
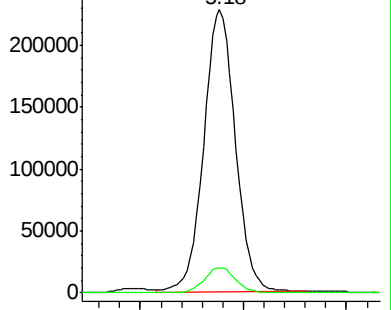
62 100

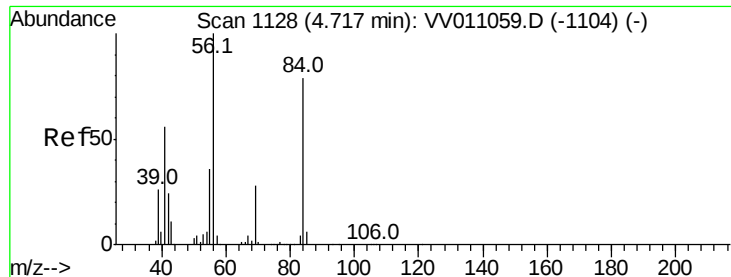
98 9.0 7.4 11.0



Abundance Ion 62.00 (61.70 to 62.70): VV011060.D (-1168) (-)

Ion 98.00 (97.70 to 98.70): VV011060.D (-1168) (-)

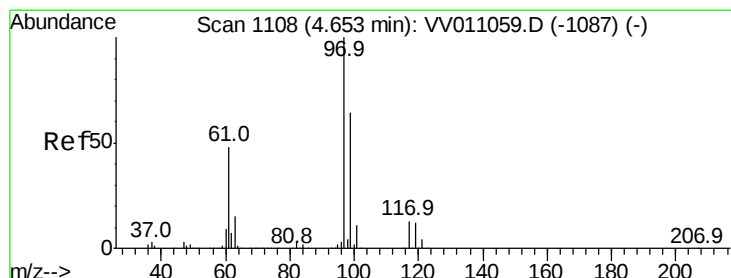
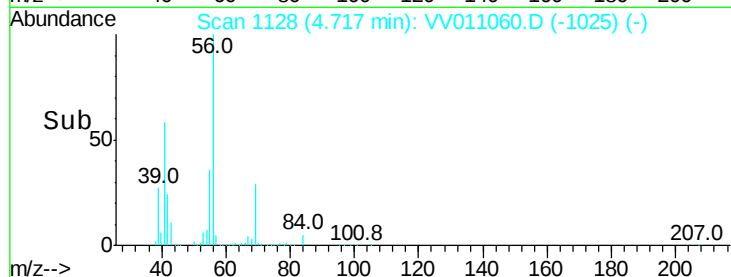
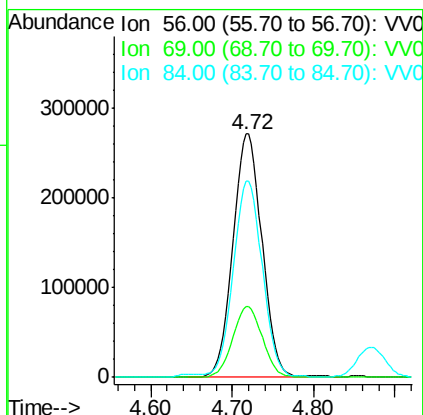
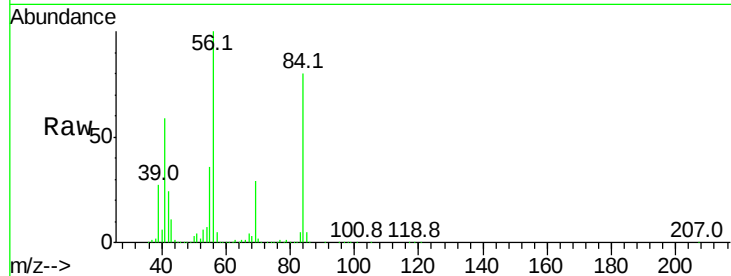




#30
Cyclohexane
Concen: 67.249 ug/L
RT: 4.72 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VV011060.D
Acq: 28 May 2019 11:56

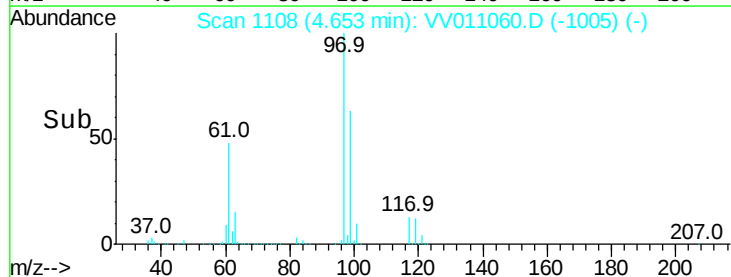
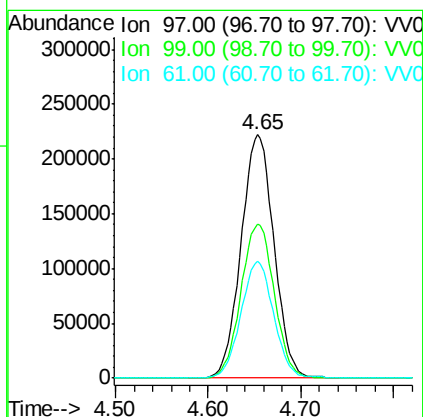
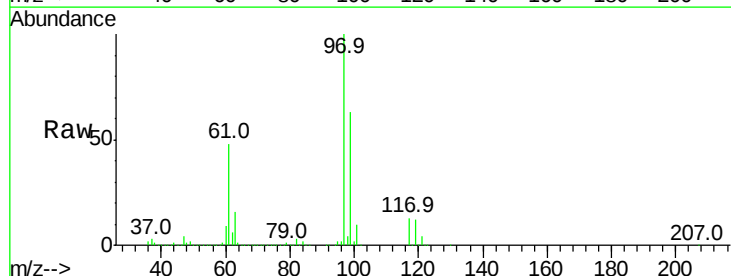
Instrument :
MSVOA_V
ClientSampleId :
VSTD05069

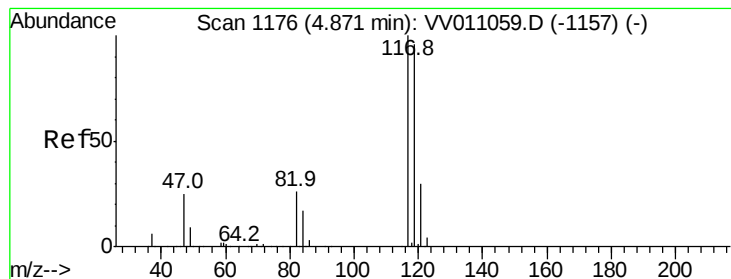
Tgt Ion: 56 Resp: 671244
Ion Ratio Lower Upper
56 100
69 29.3 23.2 34.8
84 80.6 63.2 94.8



#31
1,1,1-Trichloroethane
Concen: 50.793 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VV011060.D
Acq: 28 May 2019 11:56

Tgt Ion: 97 Resp: 548850
Ion Ratio Lower Upper
97 100
99 64.0 51.5 77.3
61 47.2 38.2 57.2





#32

Carbon tetrachloride

Concen: 47.129 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

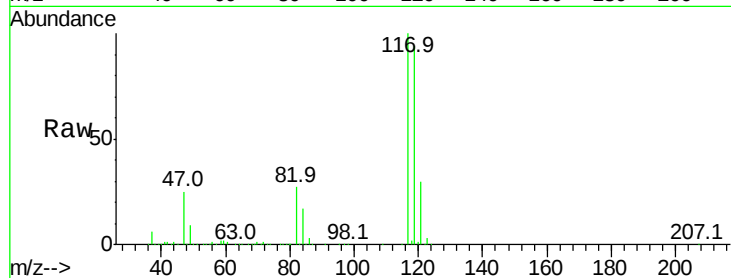
VSTD05069

Tgt Ion:117 Resp: 464406

Ion Ratio Lower Upper

117 100

119 95.9 76.6 115.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

4.87

200000

150000

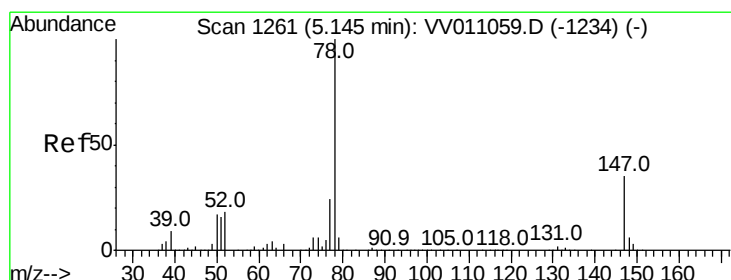
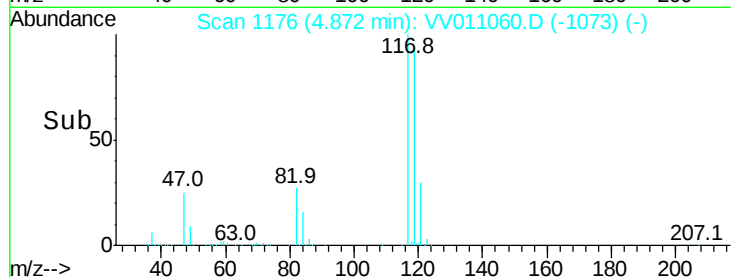
100000

50000

0

Time-->

4.80 4.90 5.00



#34

Benzene

Concen: 52.455 ug/L

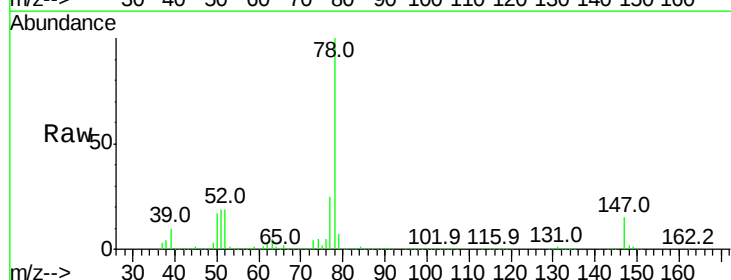
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Tgt Ion: 78 Resp: 1452525



Abundance Ion 78.00 (77.70 to 78.70): VV0

5.14

800000

600000

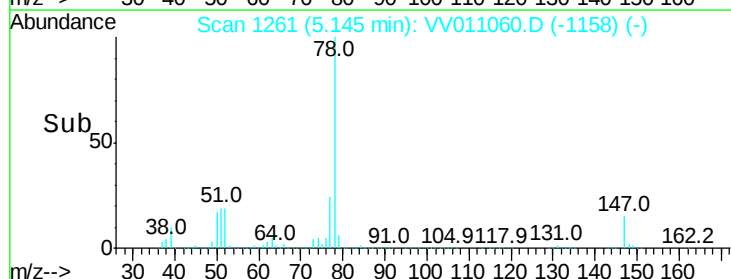
400000

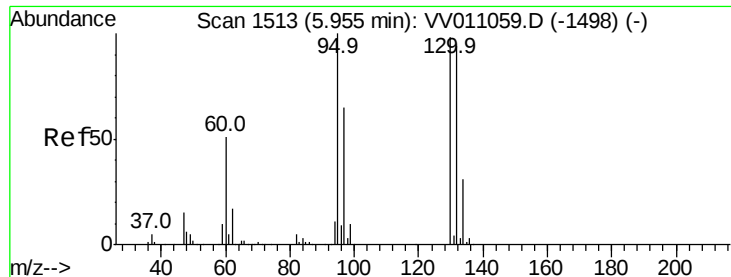
200000

0

Time-->

5.00 5.10 5.20





#35

Trichloroethene

Concen: 49.196 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD05069

Tgt Ion: 95 Resp: 376398

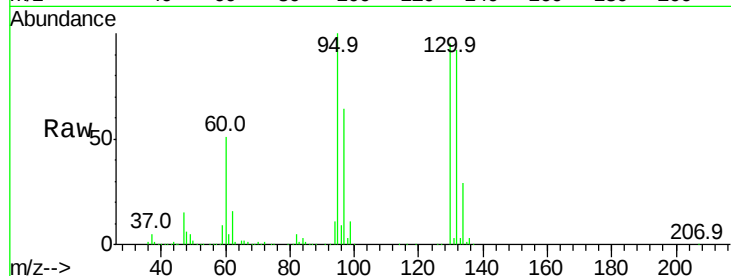
Ion Ratio Lower Upper

95 100

97 64.8 45.4 84.4

132 93.1 66.1 122.8

130 97.2 68.9 127.9

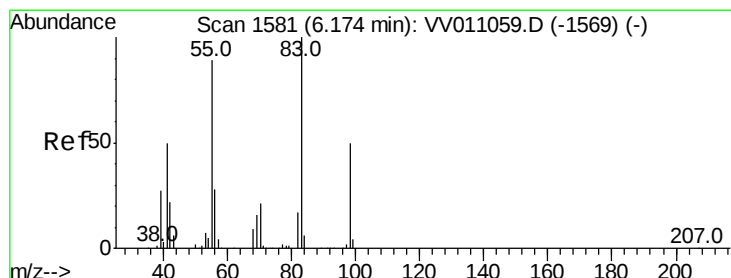
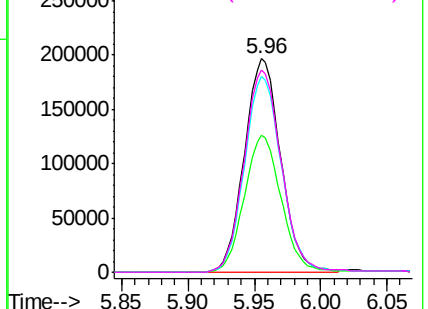
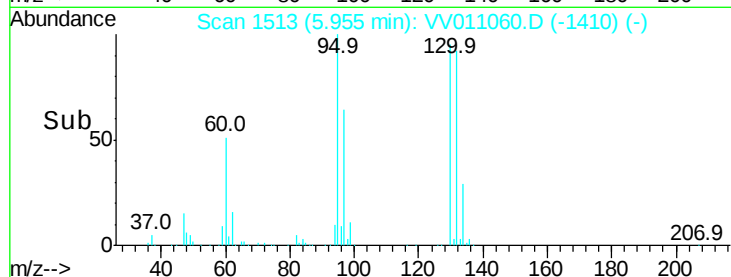


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#36

Methylcyclohexane

Concen: 55.847 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

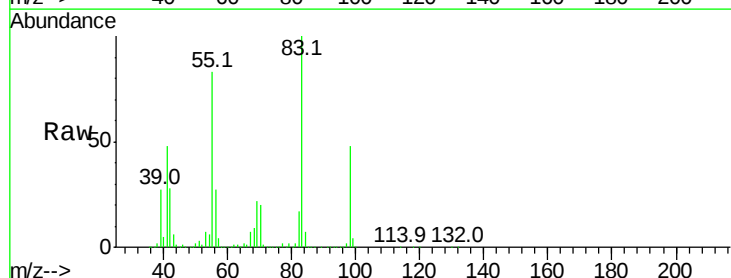
Tgt Ion: 83 Resp: 631680

Ion Ratio Lower Upper

83 100

55 85.8 69.9 104.9

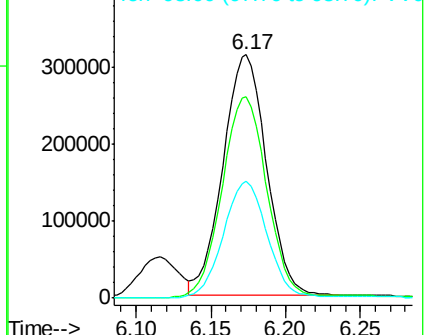
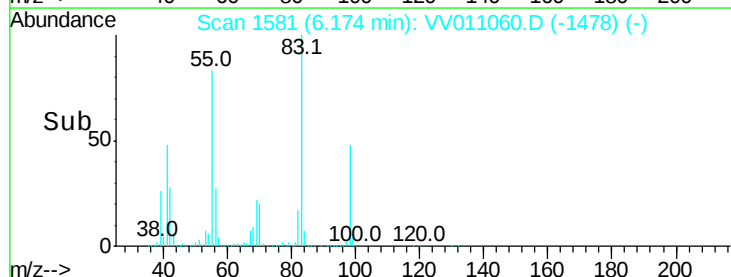
98 49.5 40.0 60.0

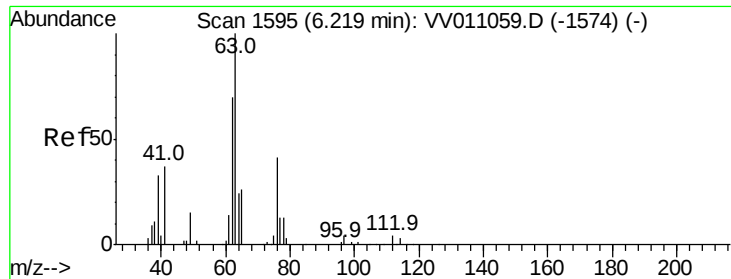


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

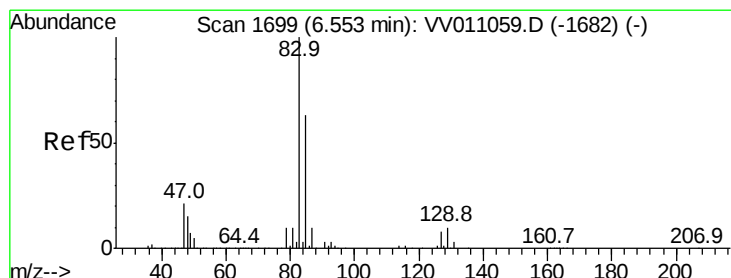
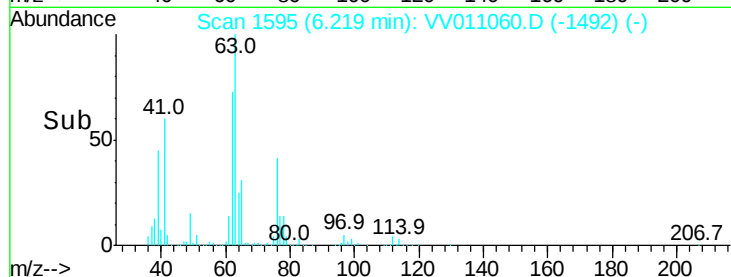
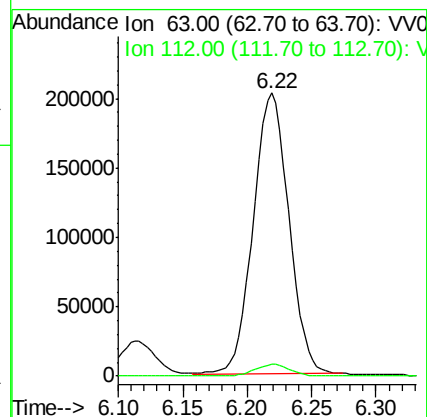
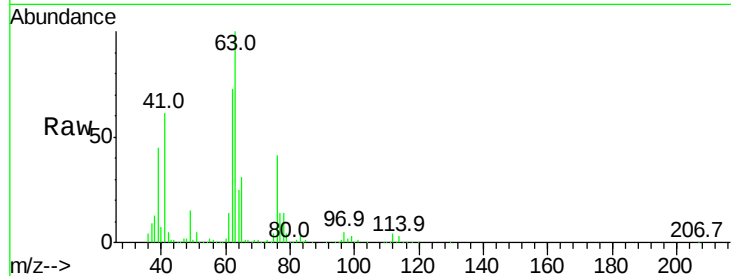




#40
 1,2-Dichloropropane
 Concen: 53.808 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

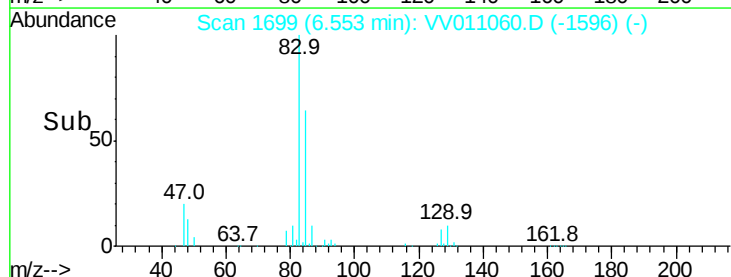
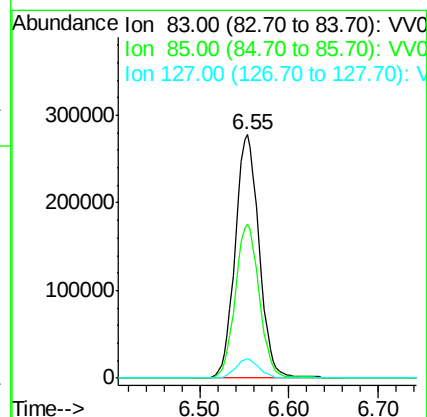
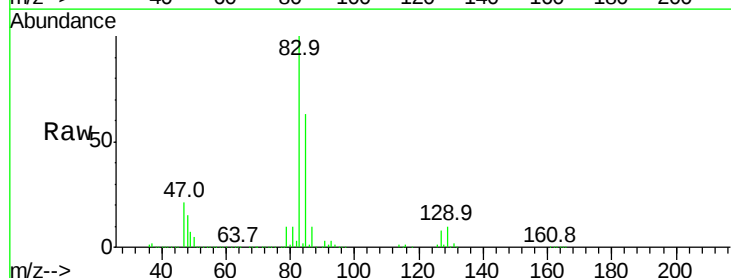
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05069

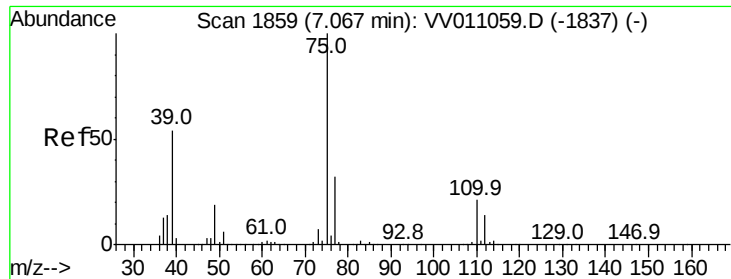
Tgt Ion: 63 Resp: 391581
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.3 4.9



#41
 Bromodichloromethane
 Concen: 52.879 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

Tgt Ion: 83 Resp: 514353
 Ion Ratio Lower Upper
 83 100
 85 63.4 44.4 82.4
 127 7.9 6.2 9.4



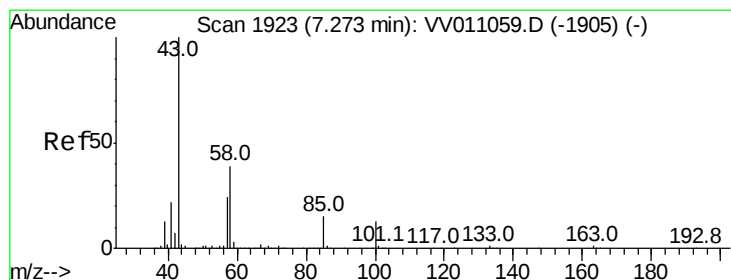
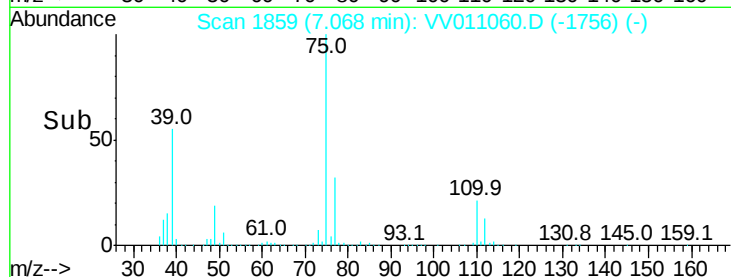
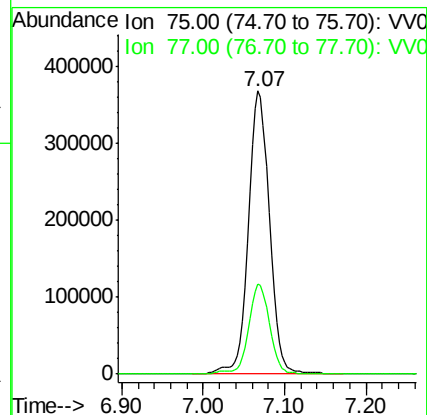
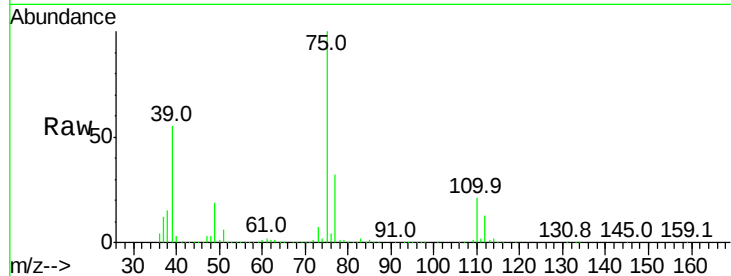


#42

cis-1,3-Dichloropropene
 Concen: 60.271 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05069

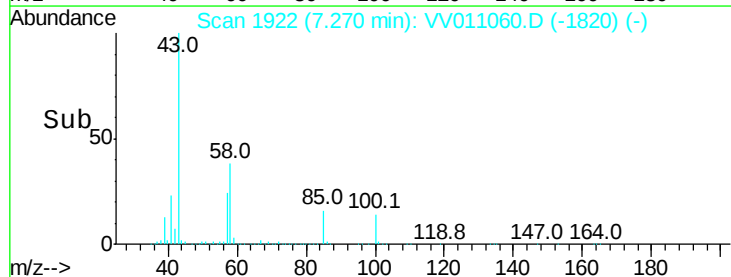
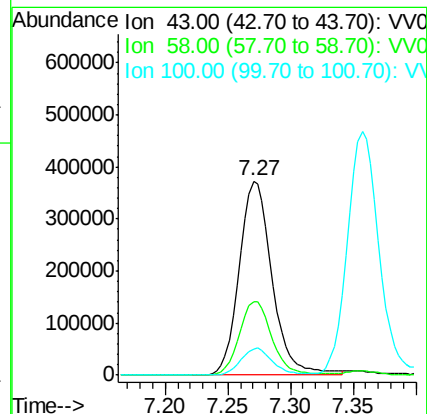
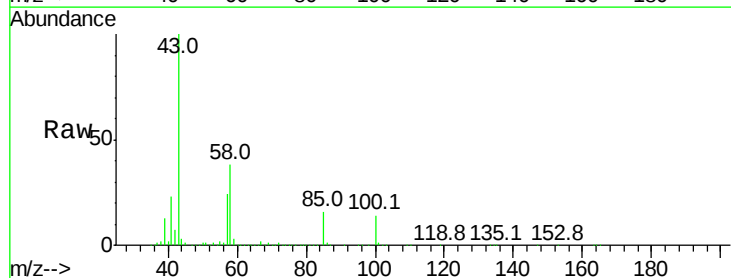
Tgt Ion: 75 Resp: 652867
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.5 41.7

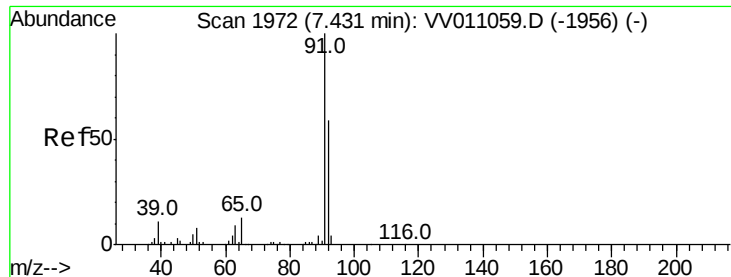


#43

4-Methyl-2-pentanone
 Concen: 129.738 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. -0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

Tgt Ion: 43 Resp: 676811
 Ion Ratio Lower Upper
 43 100
 58 38.0 30.3 45.5
 100 13.5 10.6 15.8





#44

Toluene

Concen: 51.425 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

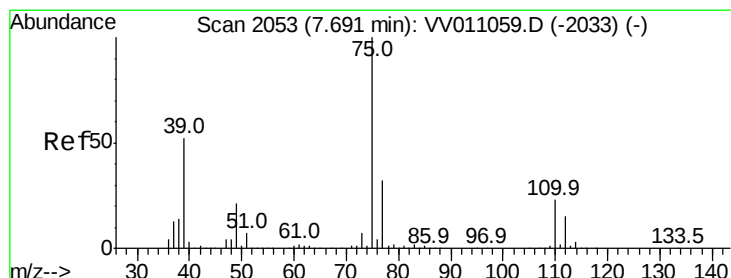
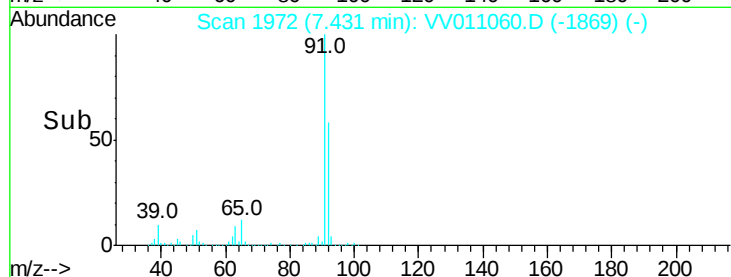
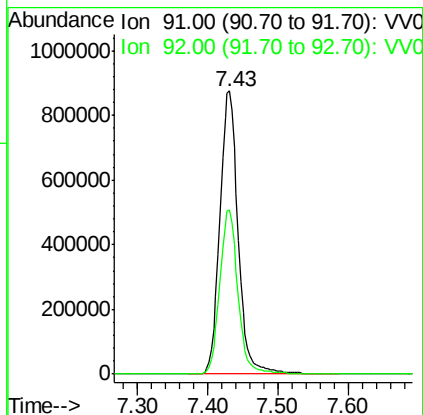
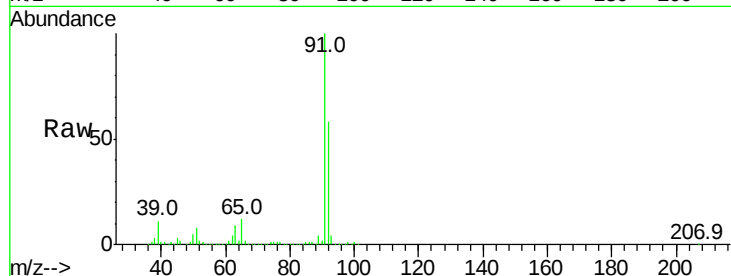
VSTD05069

Tgt Ion: 91 Resp: 1580272

Ion Ratio Lower Upper

91 100

92 57.9 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 61.253 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV011060.D

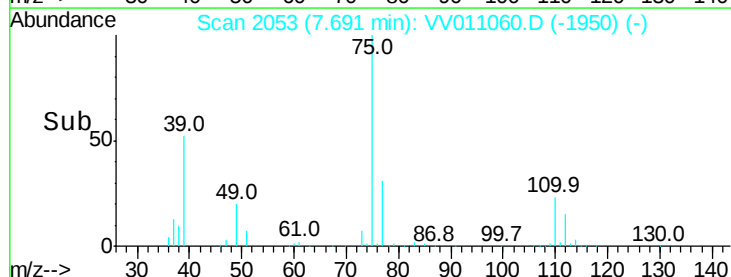
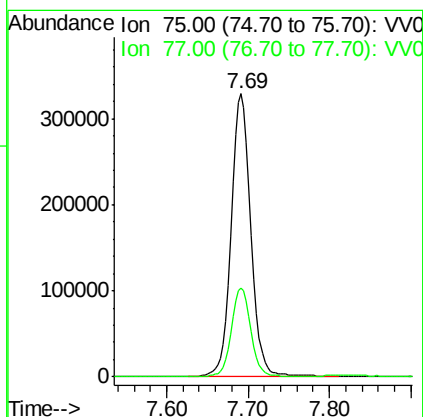
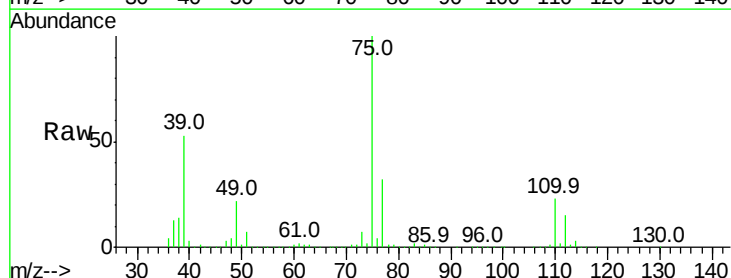
Acq: 28 May 2019 11:56

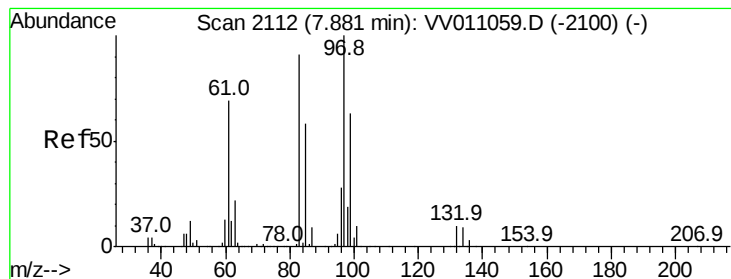
Tgt Ion: 75 Resp: 558915

Ion Ratio Lower Upper

75 100

77 31.5 22.2 41.2





#46

1,1,2-Trichloroethane

Concen: 47.494 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD05069

Tgt Ion: 97 Resp: 294521

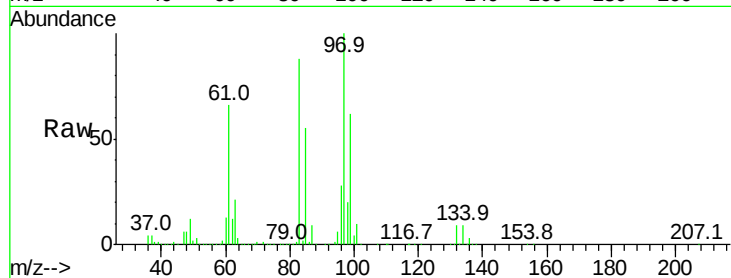
Ion Ratio Lower Upper

97 100

83 88.2 63.5 117.9

85 55.5 40.3 74.9

99 61.7 44.4 82.5

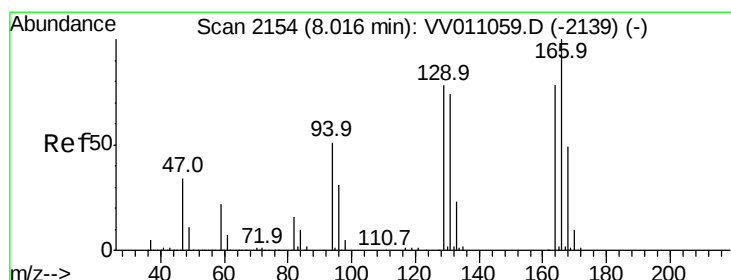
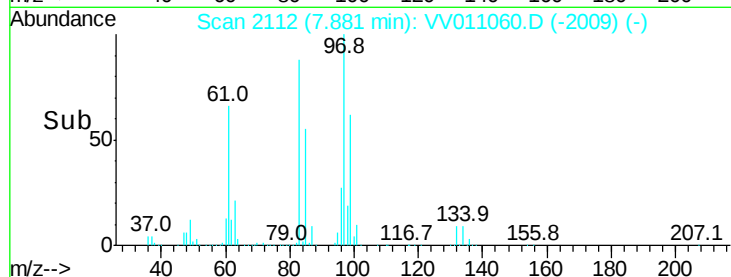
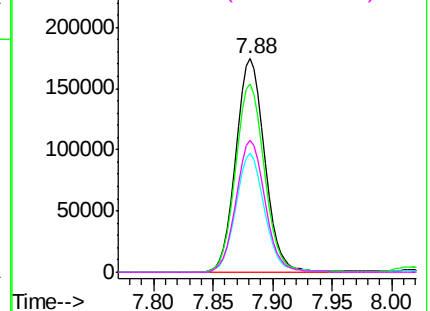


Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 99.00 (98.70 to 99.70): VV0



#47

Tetrachloroethene

Concen: 45.019 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Tgt Ion: 164 Resp: 268864

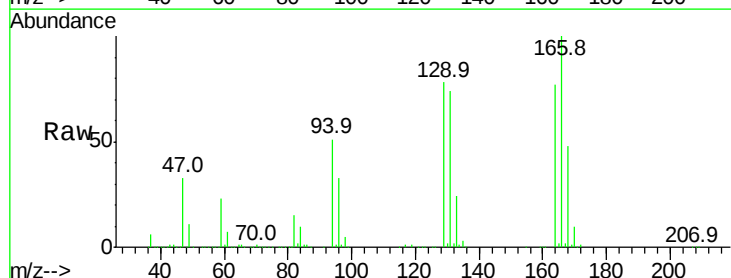
Ion Ratio Lower Upper

164 100

129 100.1 70.7 131.3

131 96.2 66.6 123.8

166 129.1 90.2 167.6

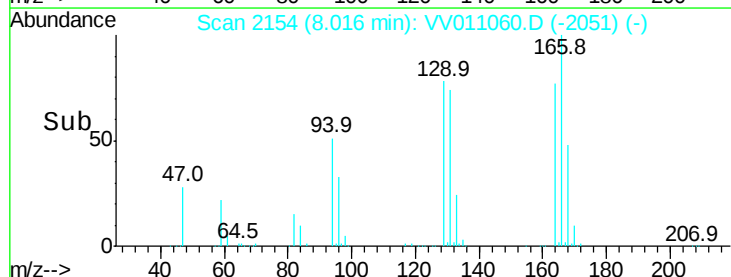
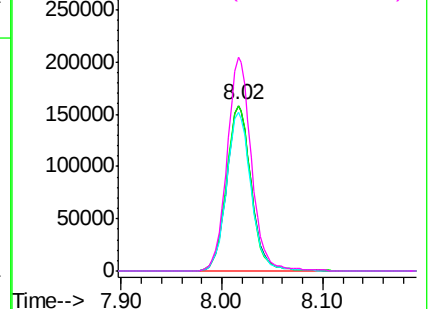


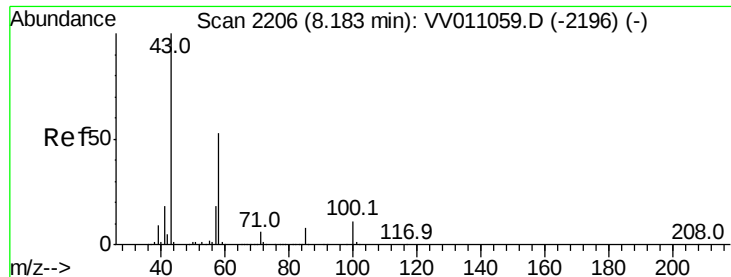
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

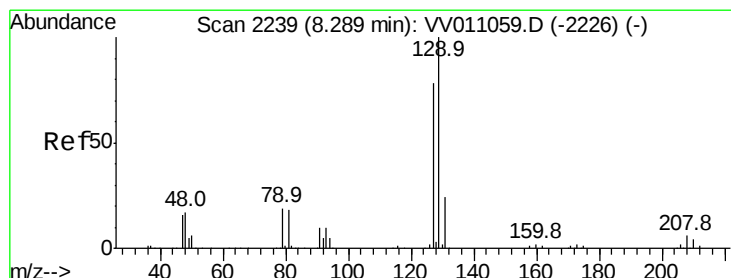
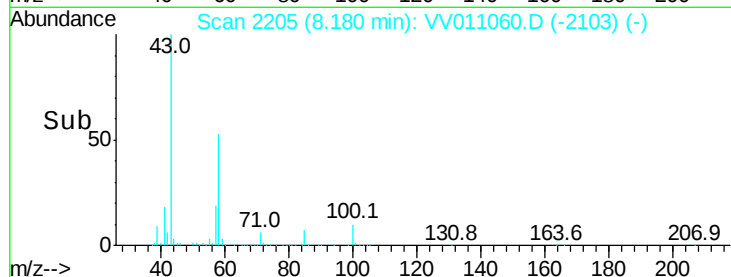
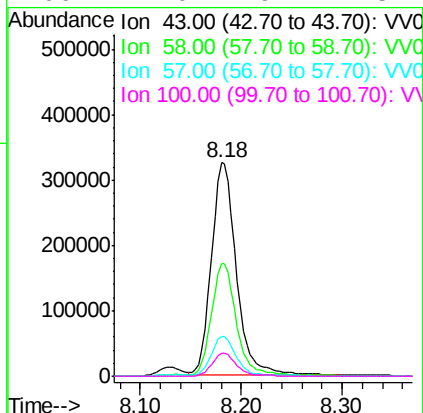
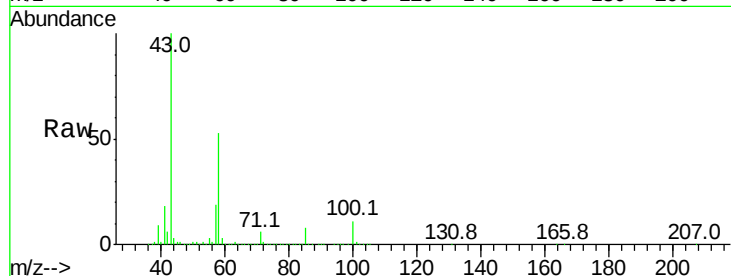




#49
2-Hexanone
Concen: 145.994 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. -0.00 min
Lab File: VV011060.D
Acq: 28 May 2019 11:56

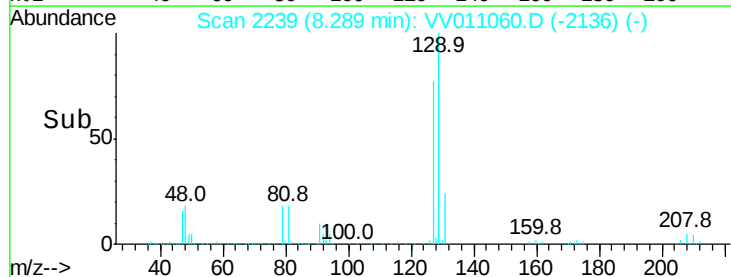
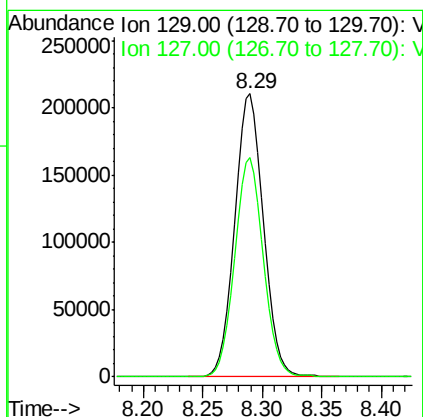
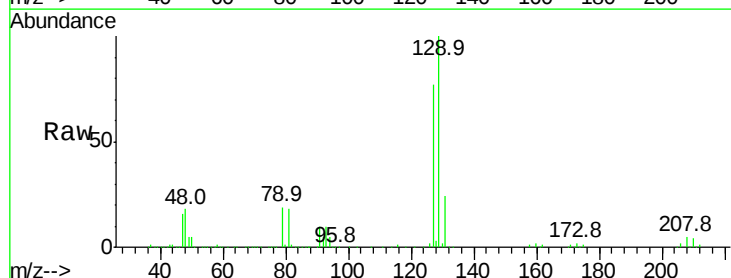
Instrument :
MSVOA_V
ClientSampleId :
VSTD05069

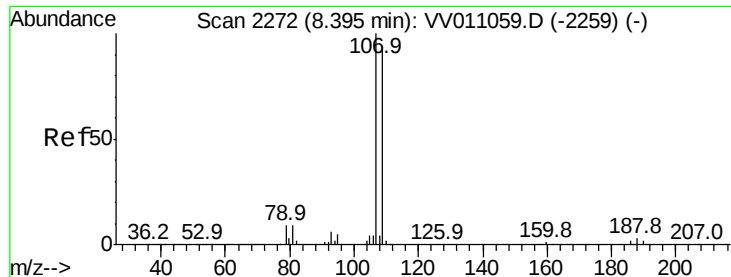
Tgt Ion:	43	Resp:	556076
Ion	Ratio	Lower	Upper
43	100		
58	51.6	43.5	65.3
57	18.1	13.7	20.5
100	11.0	9.1	13.7



#50
Dibromochloromethane
Concen: 48.296 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011060.D
Acq: 28 May 2019 11:56

Tgt Ion:	129	Resp:	352509
Ion	Ratio	Lower	Upper
129	100		
127	77.5	54.6	101.4





#51

1,2-Dibromoethane

Concen: 47.417 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD05069

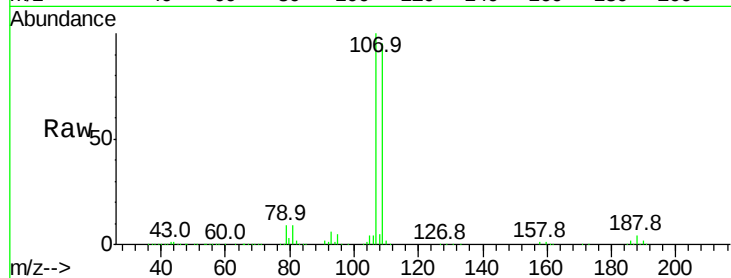
Tgt Ion:107 Resp: 284356

Ion Ratio Lower Upper

107 100

109 94.6 65.7 122.1

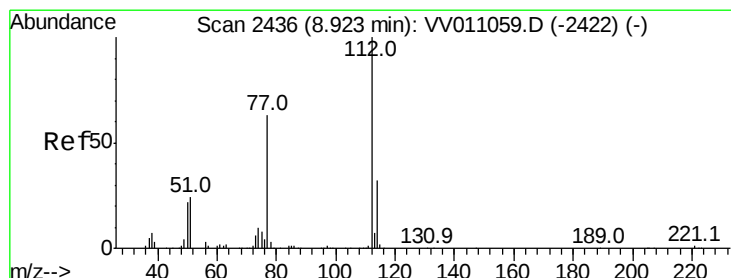
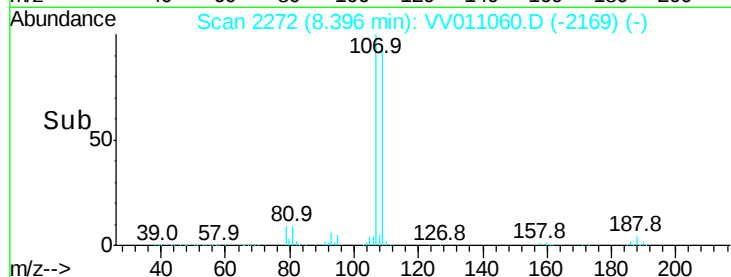
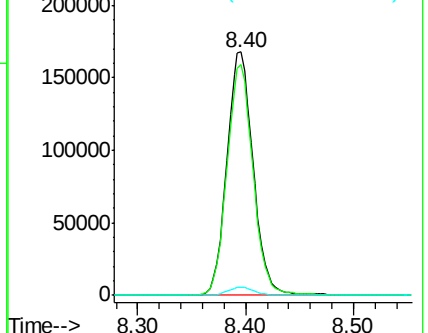
188 3.5 2.6 3.8



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: 47.167 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

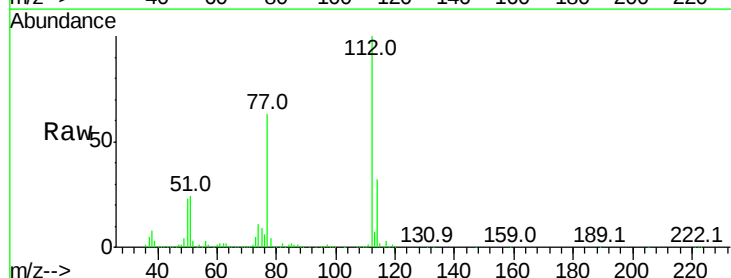
Tgt Ion:112 Resp: 993477

Ion Ratio Lower Upper

112 100

77 63.1 50.8 76.2

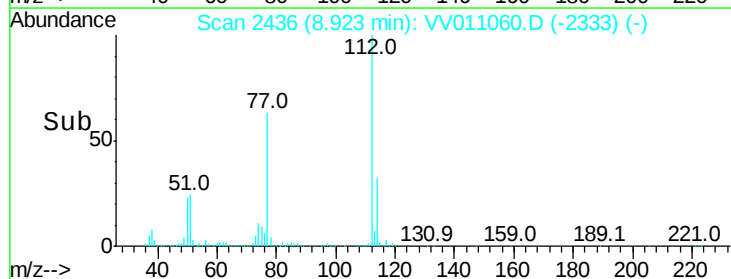
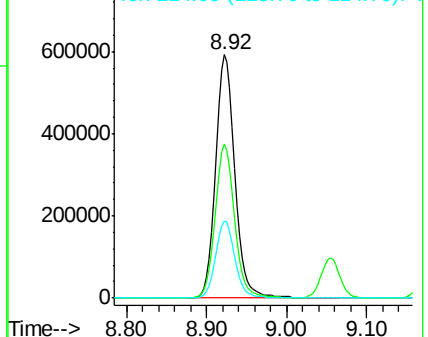
114 31.8 22.7 42.1

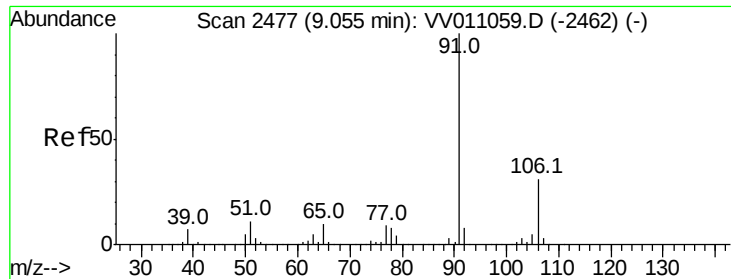


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 53.547 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

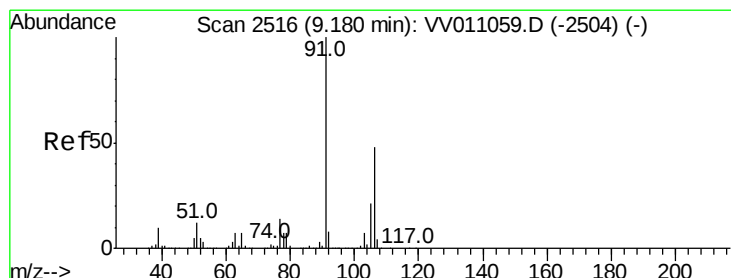
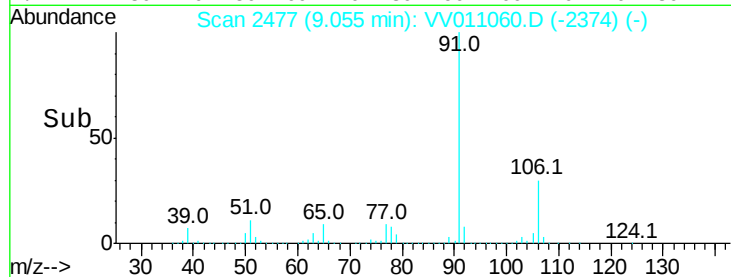
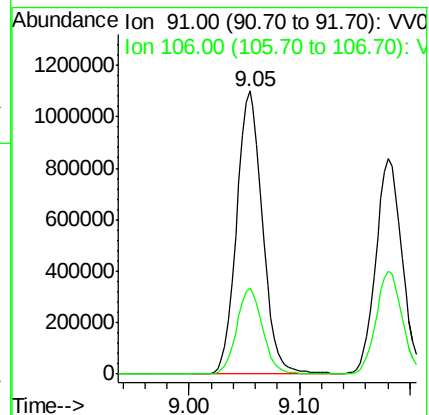
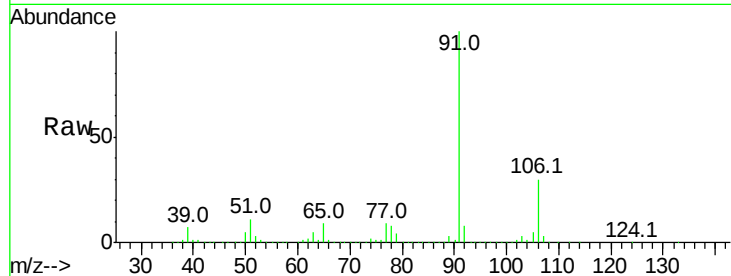
VSTD05069

Tgt Ion: 91 Resp: 1792960

Ion Ratio Lower Upper

91 100

106 30.3 21.3 39.6



#54

m,p-Xylene

Concen: 51.199 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV011060.D

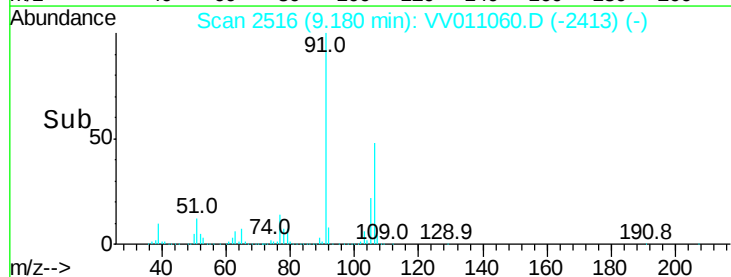
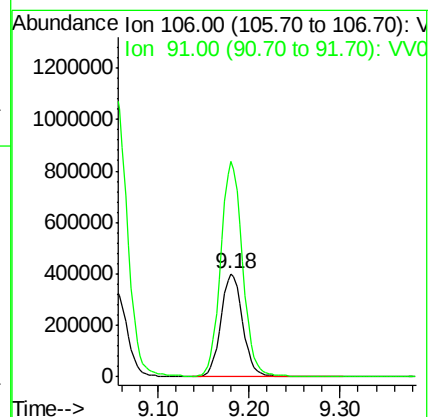
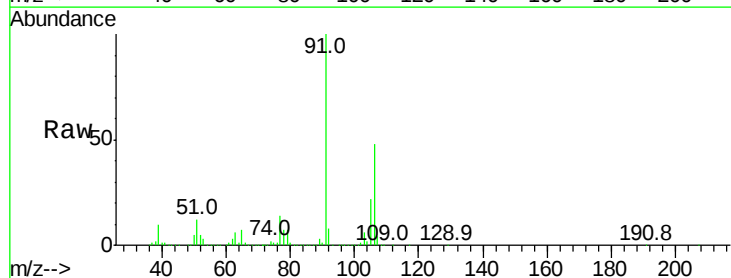
Acq: 28 May 2019 11:56

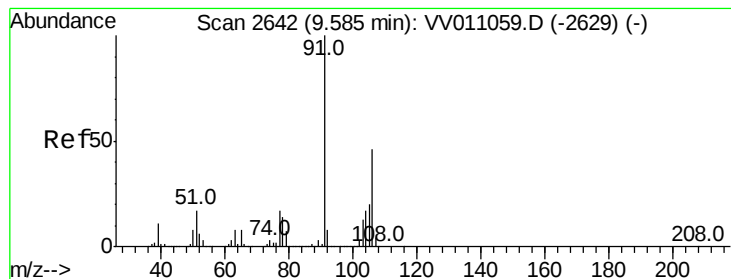
Tgt Ion: 106 Resp: 668170

Ion Ratio Lower Upper

106 100

91 208.3 145.7 270.7





#55

o-xylene

Concen: 52.949 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

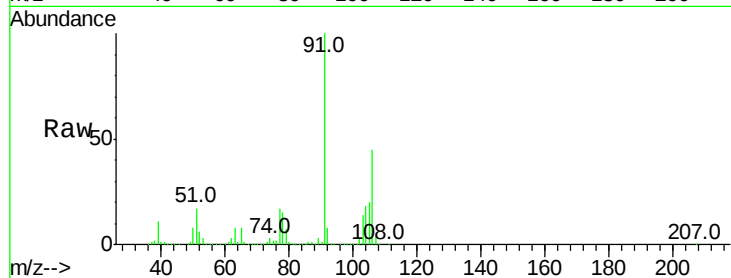
VSTD05069

Tgt Ion:106 Resp: 659260

Ion Ratio Lower Upper

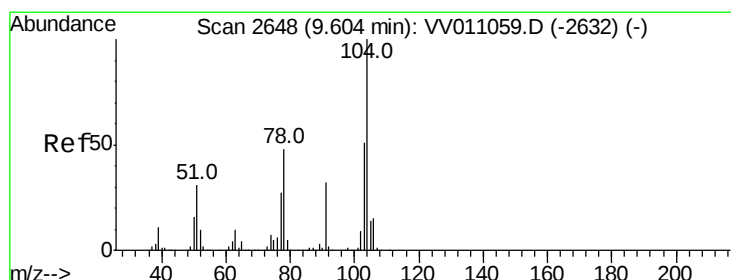
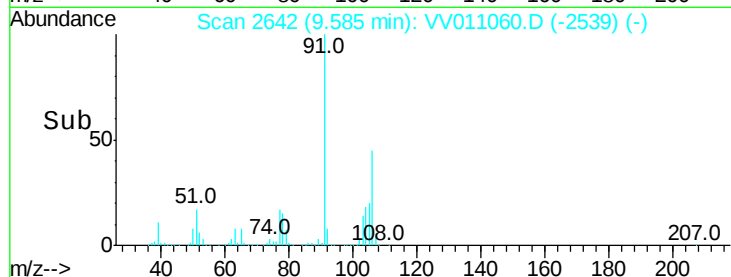
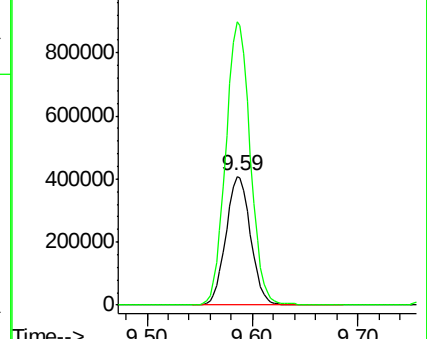
106 100

91 220.2 151.5 281.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 53.226 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV011060.D

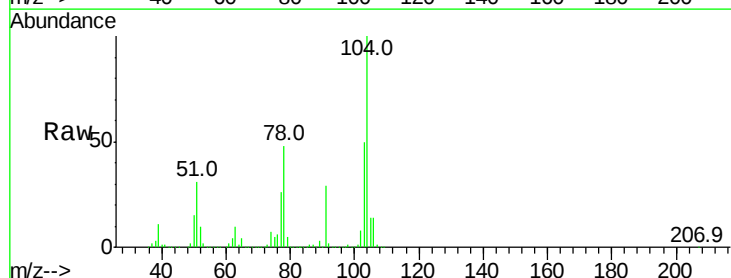
Acq: 28 May 2019 11:56

Tgt Ion:104 Resp: 1142152

Ion Ratio Lower Upper

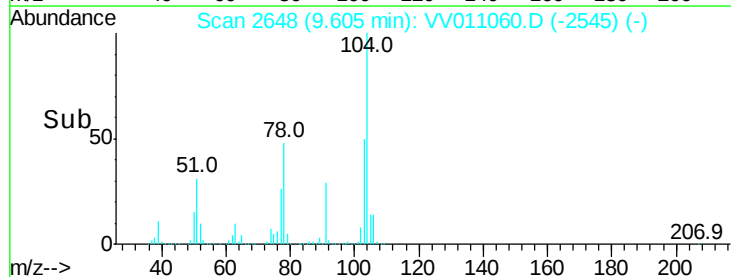
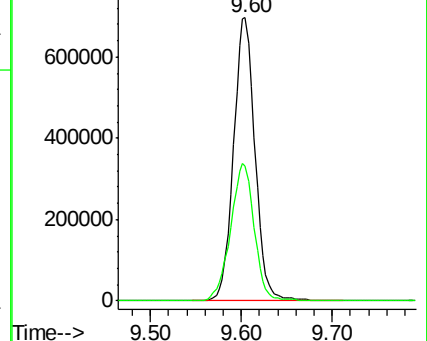
104 100

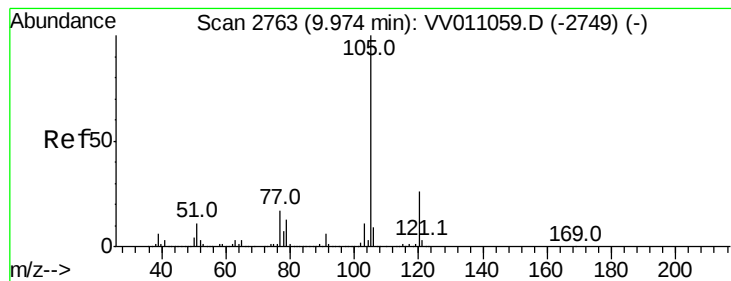
78 47.5 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 52.565 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD05069

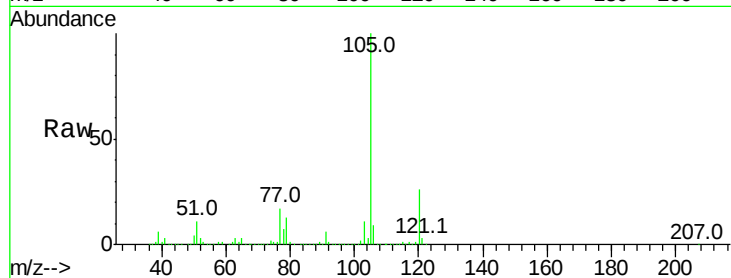
Tgt Ion:105 Resp: 1726540

Ion Ratio Lower Upper

105 100

120 26.1 21.0 31.4

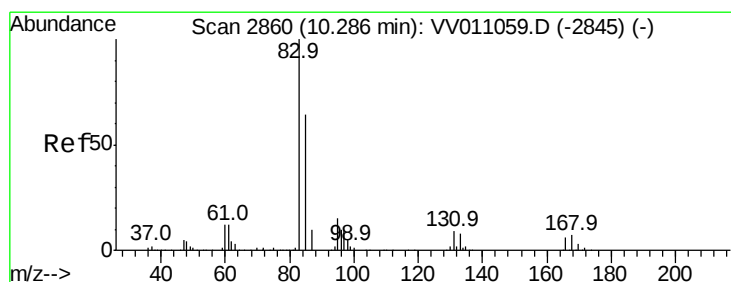
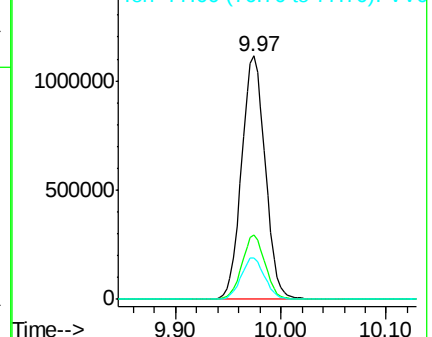
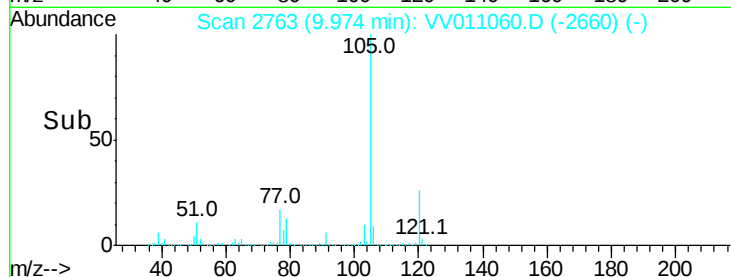
77 16.9 13.3 19.9



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: 46.889 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

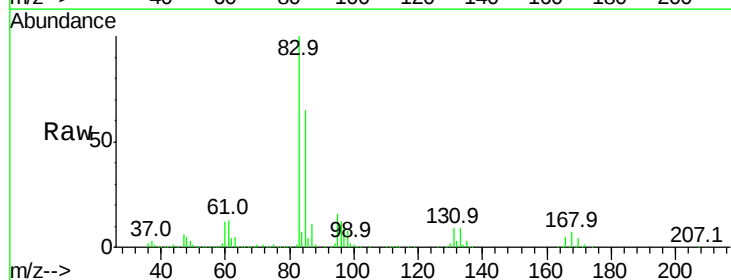
Tgt Ion: 83 Resp: 382864

Ion Ratio Lower Upper

83 100

85 65.1 44.7 82.9

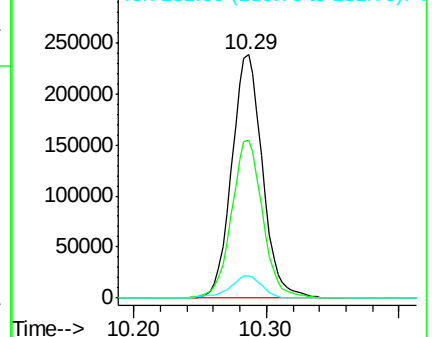
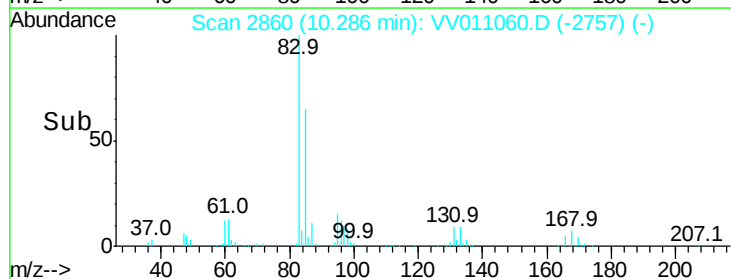
131 9.2 7.1 10.7

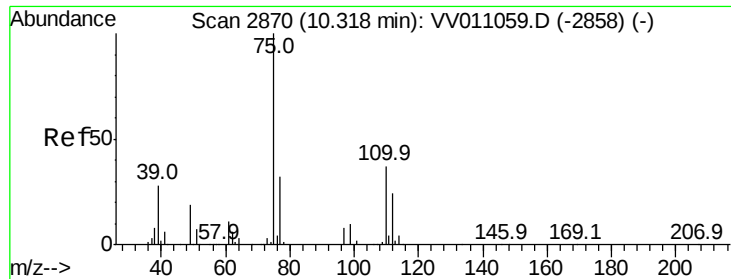


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 49.262 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

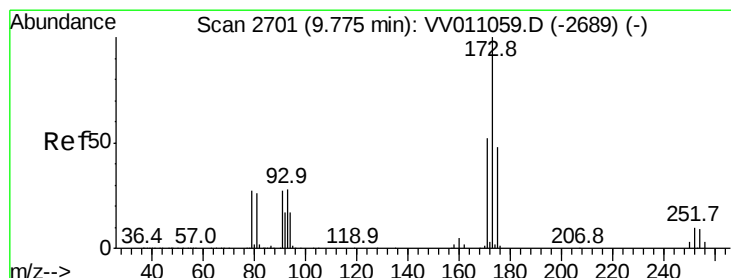
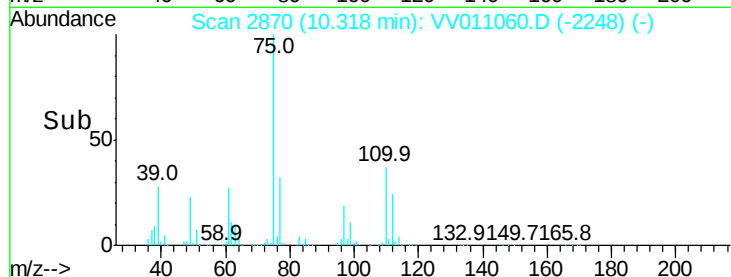
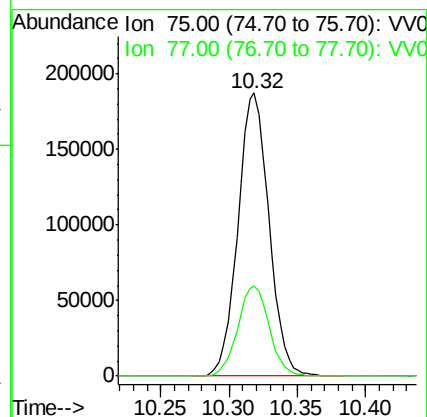
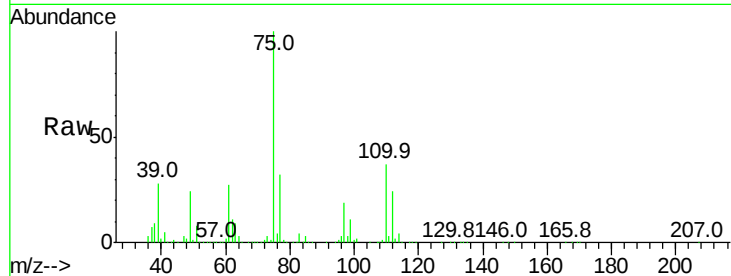
VSTD05069

Tgt Ion: 75 Resp: 295481

Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.0



#62

Bromoform

Concen: 48.595 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

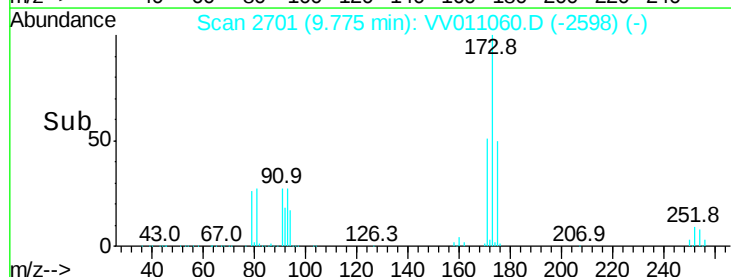
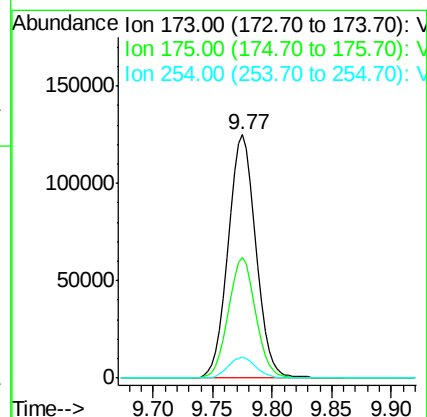
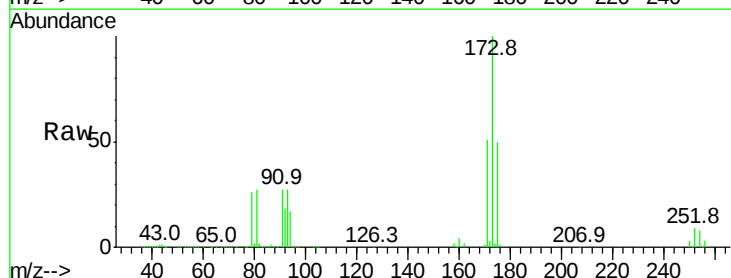
Tgt Ion: 173 Resp: 201677

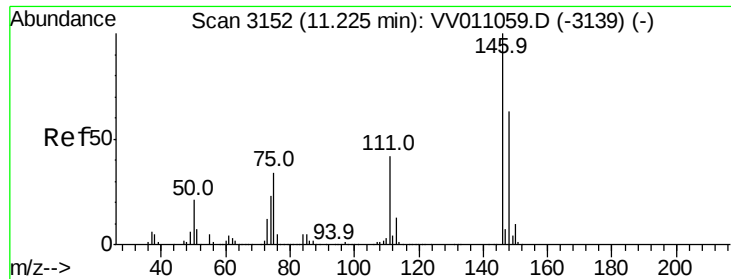
Ion Ratio Lower Upper

173 100

175 49.1 39.0 58.4

254 8.6 7.0 10.4

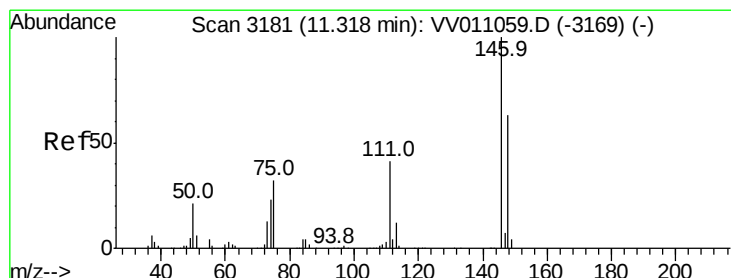
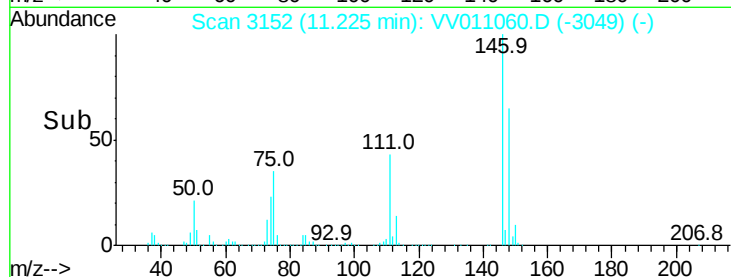
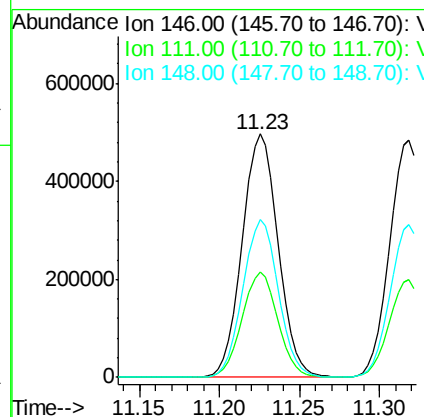
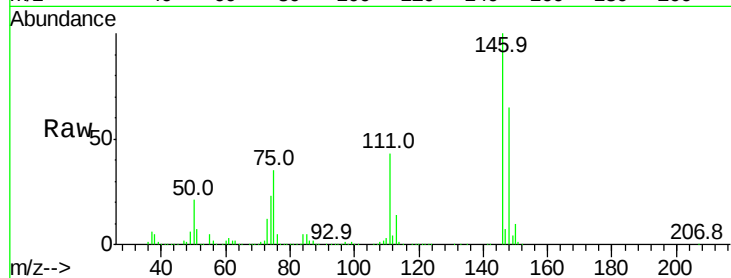




#63
 1,3-Dichlorobenzene
 Concen: 47.670 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

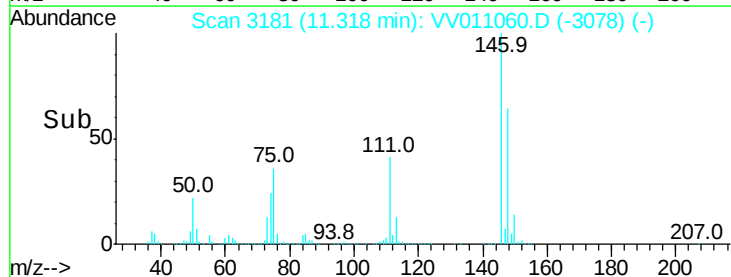
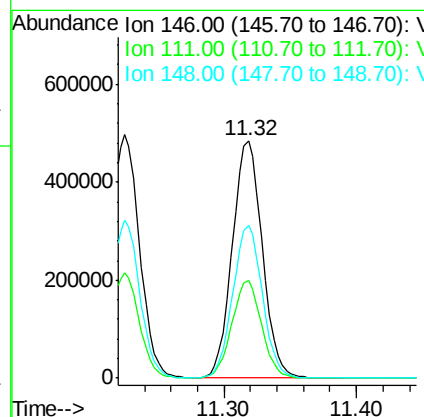
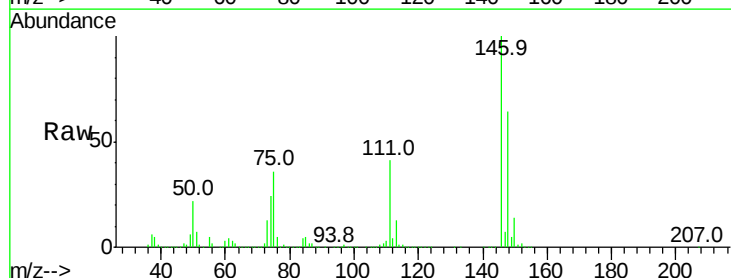
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05069

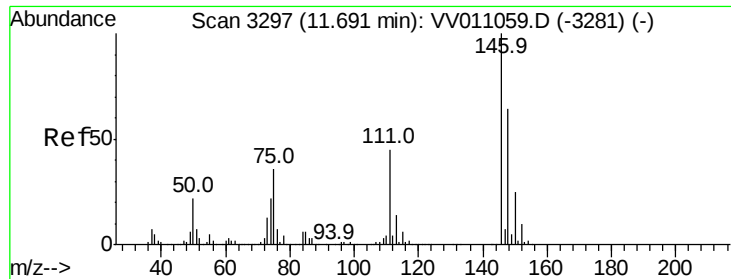
Tgt Ion:146 Resp: 760119
 Ion Ratio Lower Upper
 146 100
 111 43.3 29.6 55.0
 148 64.7 44.1 81.9



#64
 1,4-Dichlorobenzene
 Concen: 46.214 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

Tgt Ion:146 Resp: 758918
 Ion Ratio Lower Upper
 146 100
 111 40.9 28.8 53.4
 148 64.3 44.4 82.5

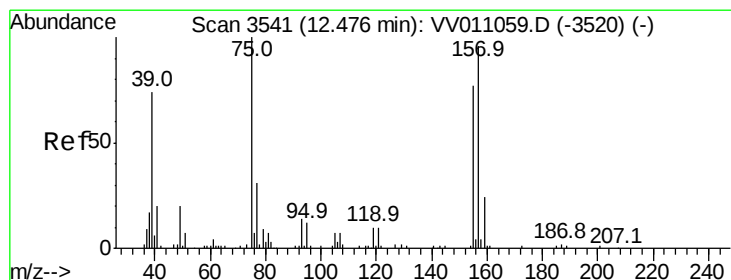
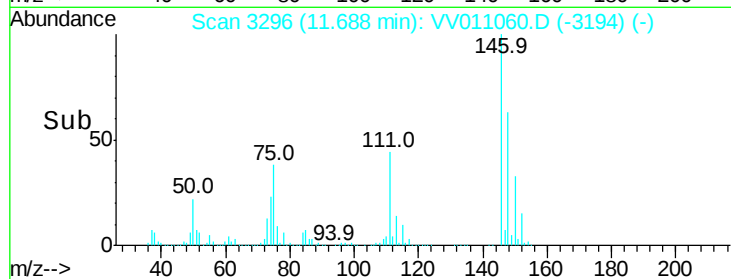
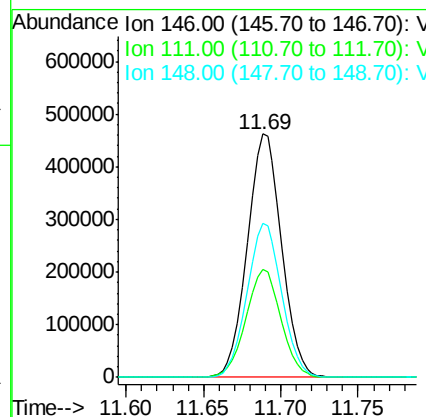
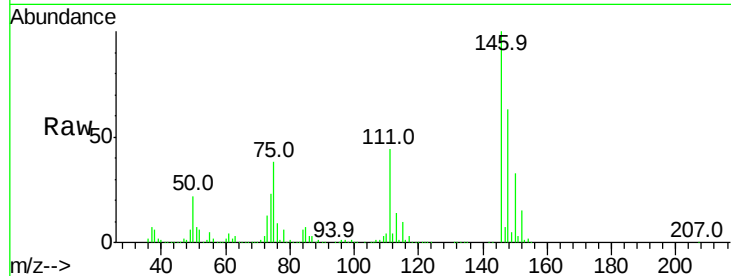




#65
 1,2-Dichlorobenzene
 Concen: 46.166 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

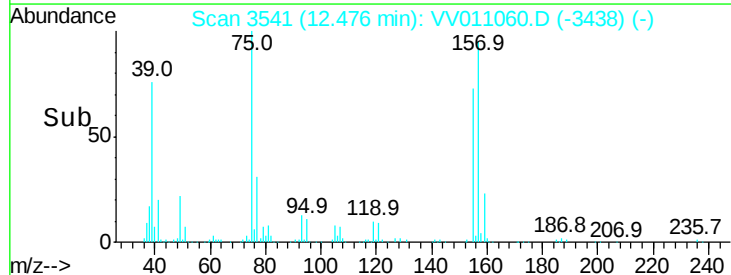
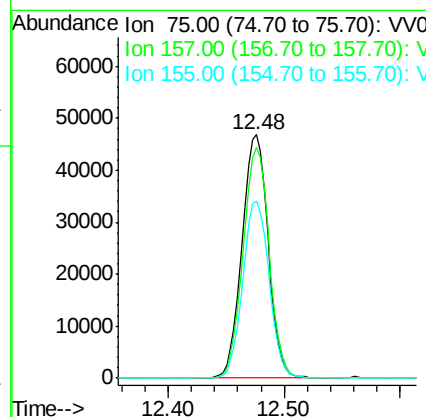
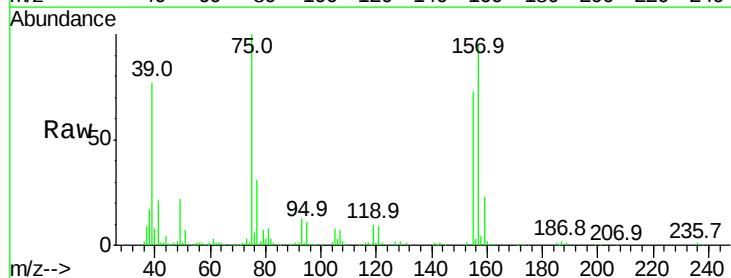
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05069

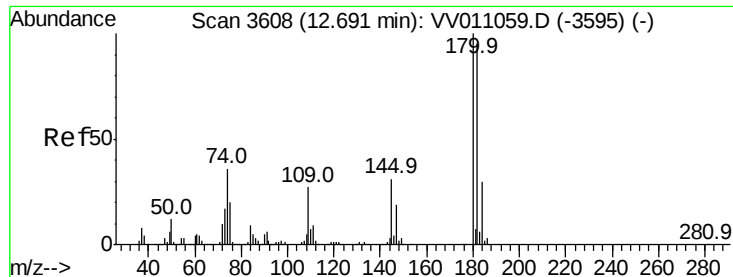
Tgt Ion:146 Resp: 713776
 Ion Ratio Lower Upper
 146 100
 111 44.3 35.9 53.9
 148 63.2 51.4 77.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 59.562 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

Tgt Ion: 75 Resp: 73156
 Ion Ratio Lower Upper
 75 100
 157 94.9 76.7 115.1
 155 72.6 61.8 92.8

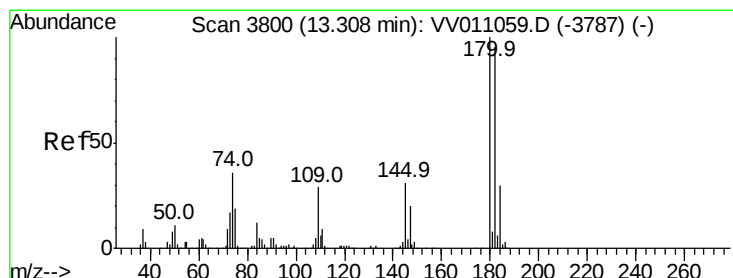
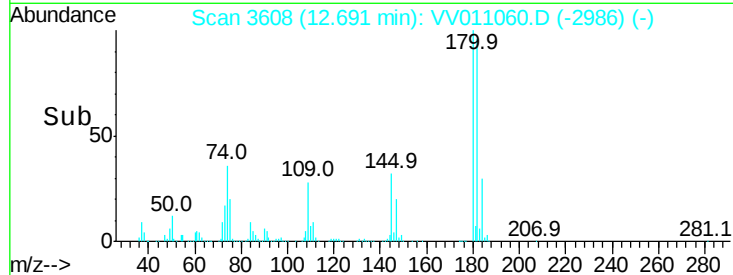
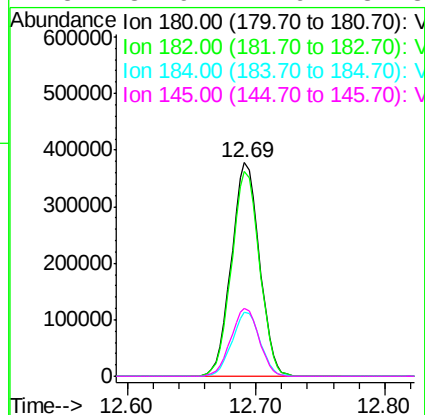
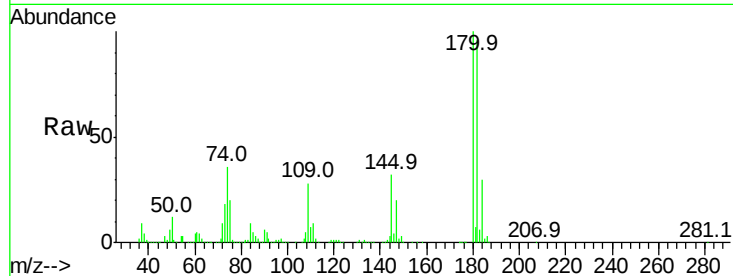




#67
 1,3,5-Trichlorobenzene
 Concen: 48.730 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

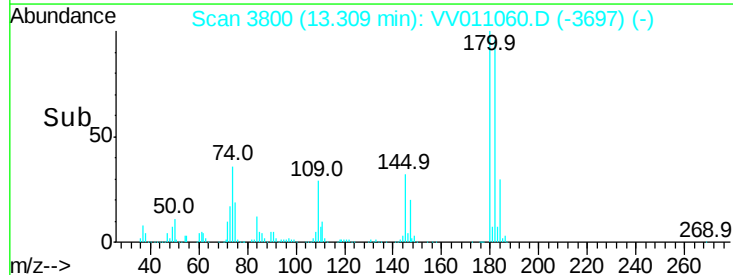
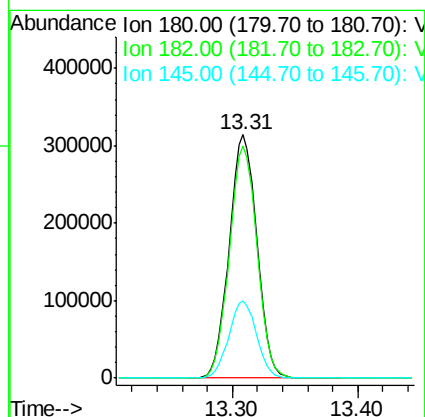
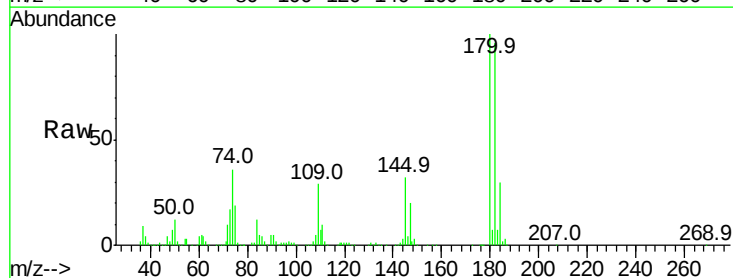
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05069

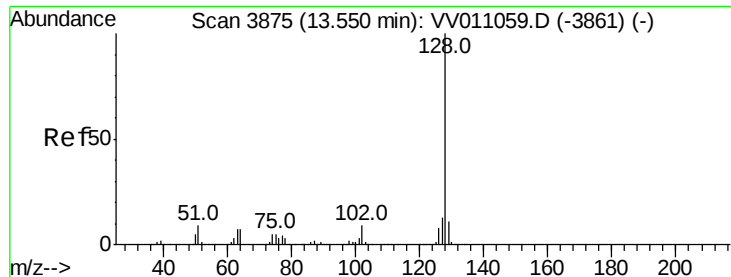
Tgt Ion:	180	Resp:	569995
Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.6	114.8
184	30.1	24.7	37.1
145	31.9	24.9	37.3



#68
 1,2,4-trichlorobenzene
 Concen: 52.034 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV011060.D
 Acq: 28 May 2019 11:56

Tgt Ion:	180	Resp:	481062
Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.8	115.2
145	31.7	25.4	38.0





#69

Naphthalene

Concen: 57.301 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

Instrument :

MSVOA_V

ClientSampleId :

VSTD05069

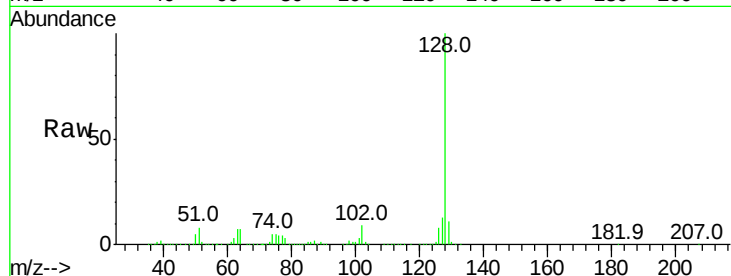
Tgt Ion:128 Resp: 1061946

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

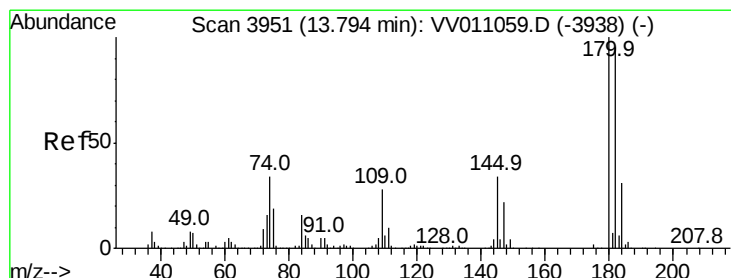
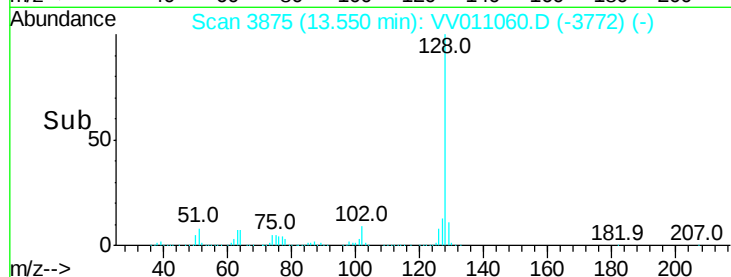
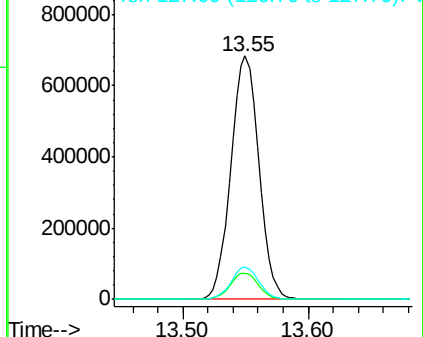
127 13.1 10.2 15.4



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: 49.158 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV011060.D

Acq: 28 May 2019 11:56

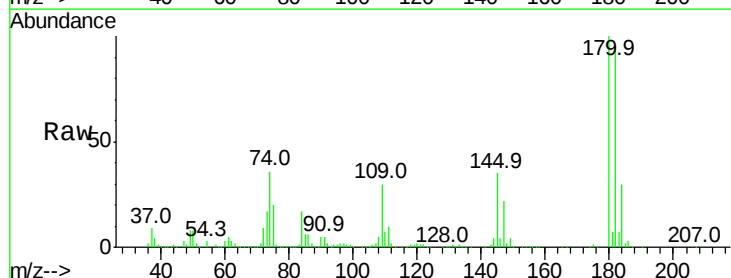
Tgt Ion:180 Resp: 443685

Ion Ratio Lower Upper

180 100

182 94.7 75.7 113.5

145 34.4 27.0 40.6



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

