

Data File : VV011061.D
Acq On : 28 May 2019 12:24
Operator : SY/MD
Sample : VSTD10078
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD10070

Quant Time: May 28 12:44:55 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	492291	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	475050	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	231543	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	621578	110.76	ug/L	0.00
7) Chloroethane-d5	1.56	69	451619	118.85	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	1178534	109.21	ug/L	0.00
20) 2-Butanone-d5	3.93	46	550865	284.46	ug/L	0.00
24) Chloroform-d	4.40	84	1305411	102.36	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	799386	106.38	ug/L	0.00
29) Benzene-d6	5.09	84	2683176	103.46	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	896917	108.83	ug/L	0.00
37) Toluene-d8	7.36	98	2540463	105.37	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	439606	129.92	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	407822	265.34	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	819940	99.66	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	907193	96.50	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	791655	108.925	ug/L	100
3) Chloromethane	1.25	50	806861	122.561	ug/L	100
5) Vinyl chloride	1.32	62	728320	110.152	ug/L	99
6) Bromomethane	1.51	94	318456	138.132	ug/L	100
8) Chloroethane	1.58	64	398528	120.454	ug/L	99
9) Trichlorofluoromethane	1.75	101	959136	91.015	ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	489832	81.511	ug/L	99
12) 1,1-Dichloroethene	2.13	96	474081	91.257	ug/L	90
13) Acetone	2.19	43	548260	293.578	ug/L	100
14) Carbon disulfide	2.31	76	1605698	110.372	ug/L	100
15) Methyl Acetate	2.46	43	355531	99.084	ug/L	# 100
16) Methylene chloride	2.53	84	696817	82.478	ug/L	100
17) Methyl tert-butyl Ether	2.81	73	1903214	103.538	ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	661336	92.280	ug/L	99
19) 1,1-Dichloroethane	3.22	63	1303184	99.867	ug/L	99
21) 2-Butanone	4.02	43	772021	302.087	ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	757673	94.952	ug/L	99
23) Bromochloromethane	4.29	128	325429	86.057	ug/L	98
25) Chloroform	4.42	83	1279334	86.641	ug/L	99
27) 1,2-Dichloroethane	5.18	62	946062	104.227	ug/L	100
30) Cyclohexane	4.72	56	1283749	130.050	ug/L	100
31) 1,1,1-Trichloroethane	4.65	97	1054996	98.726	ug/L	100
32) Carbon tetrachloride	4.87	117	902264	92.587	ug/L	100
34) Benzene	5.14	78	2815401	102.809	ug/L	100
35) Trichloroethene	5.96	95	732675	96.833	ug/L	98
36) Methylcyclohexane	6.17	83	1245270	111.326	ug/L	97
40) 1,2-Dichloropropane	6.22	63	782667	108.750	ug/L	100
41) Bromodichloromethane	6.55	83	1004378	104.412	ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	1242635	115.999	ug/L	100
43) 4-Methyl-2-pentanone	7.27	43	1380493	267.585	ug/L	100

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QLast Update : Tue May 28 11:51:54 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	3052492	100.444	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	1103344	122.270	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	580503	94.658	ug/L	98
47) Tetrachloroethene	8.02	164	522976	88.547	ug/L	99
49) 2-Hexanone	8.18	43	1161716	308.410	ug/L	97
50) Dibromochloromethane	8.29	129	704952	97.663	ug/L	100
51) 1,2-Dibromoethane	8.40	107	574915	96.941	ug/L	100
52) Chlorobenzene	8.92	112	1943864	93.320	ug/L	99
53) Ethylbenzene	9.05	91	3474386	104.923	ug/L	100
54) m,p-Xylene	9.18	106	1315322	101.915	ug/L	99
55) o-xylene	9.59	106	1285855	104.429	ug/L	98
56) Styrene	9.60	104	2224625	104.830	ug/L	99
57) Isopropylbenzene	9.97	105	3358251	103.385	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	804289	99.603	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	606432	102.234	ug/L	99
62) Bromoform	9.77	173	416014	101.212	ug/L	100
63) 1,3-Dichlorobenzene	11.23	146	1512837	95.794	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	1508762	92.764	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	1412539	92.245	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	153520	126.202	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	1127615	97.335	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	973821	106.354	ug/L	99
69) Naphthalene	13.55	128	2210414	120.425	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	902737	100.986	ug/L	99

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

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Instrument :
MSVOA_V
ClientSampleId :
VSTD10070

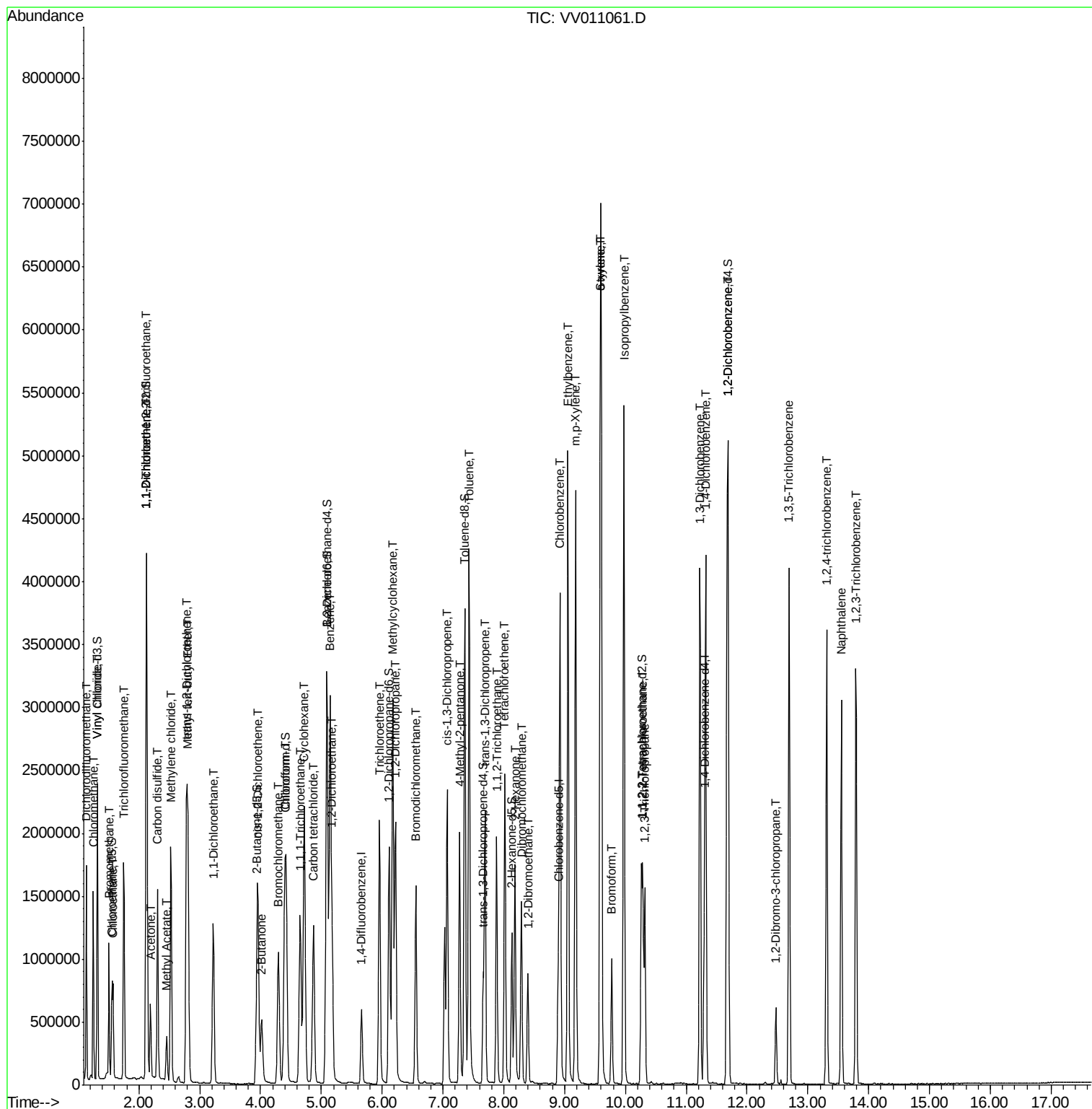
Quant Time: May 28 12:44:55 2019

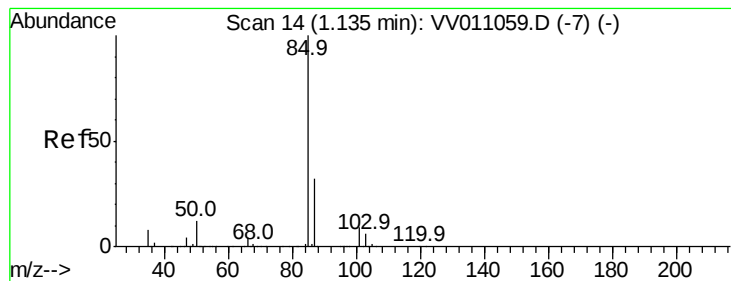
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM052819S.M

Quant Title : VOC Analysis

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

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 108.925 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

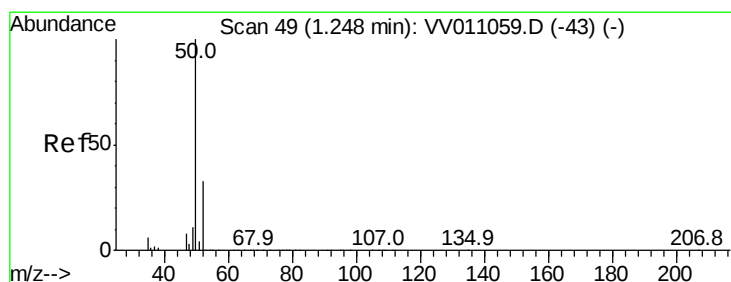
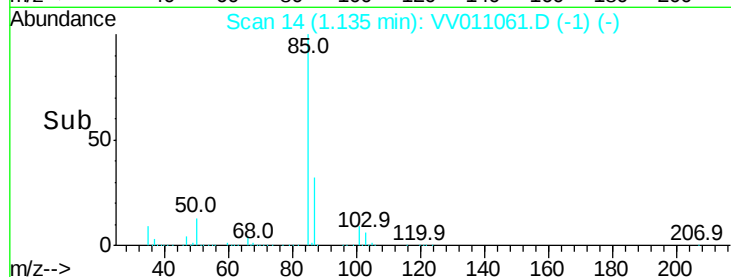
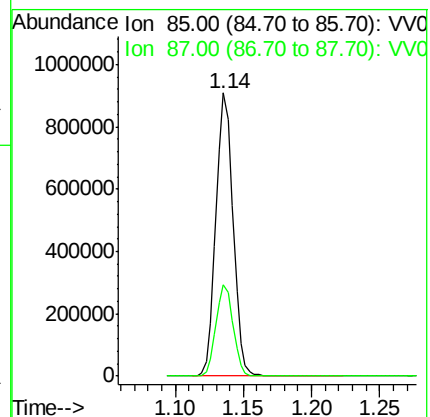
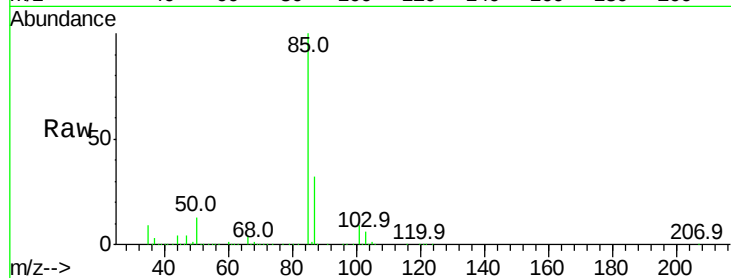
VSTD10070

Tgt Ion: 85 Resp: 791655

Ion Ratio Lower Upper

85 100

87 32.4 22.5 41.9



#3

Chloromethane

Concen: 122.561 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV011061.D

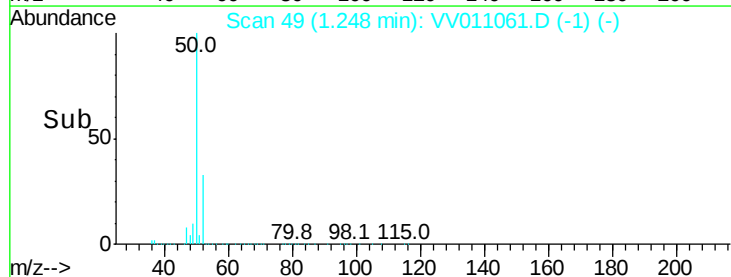
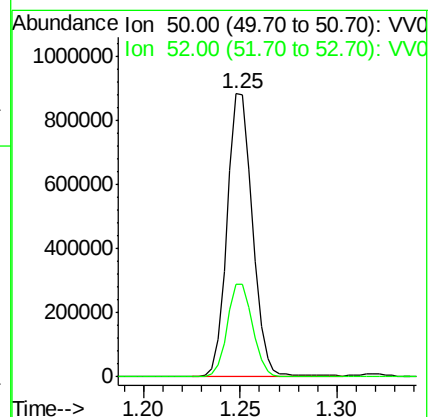
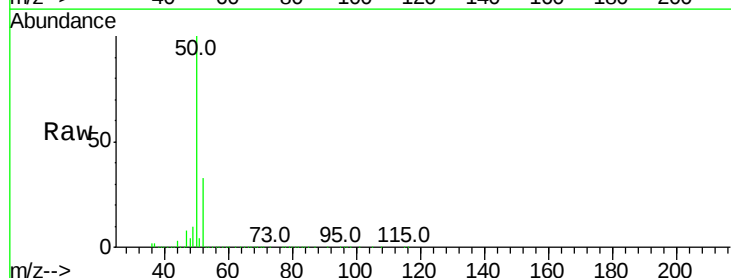
Acq: 28 May 2019 12:24

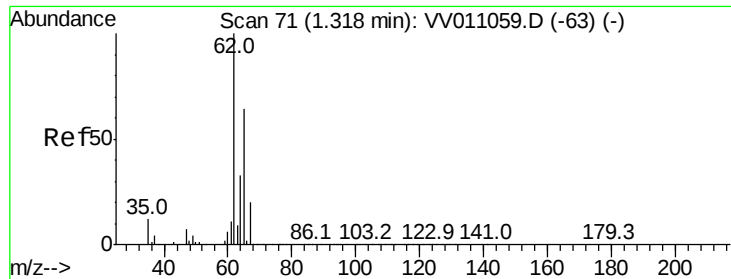
Tgt Ion: 50 Resp: 806861

Ion Ratio Lower Upper

50 100

52 32.8 22.9 42.5





#5

Vinyl chloride

Concen: 110.152 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

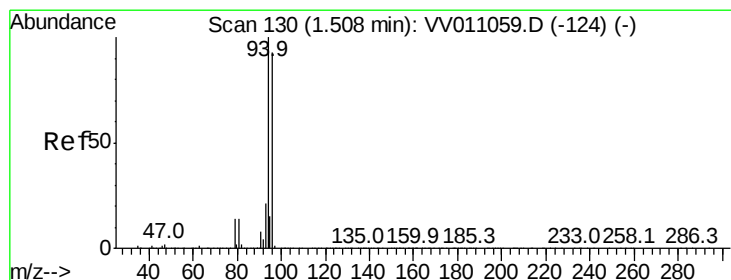
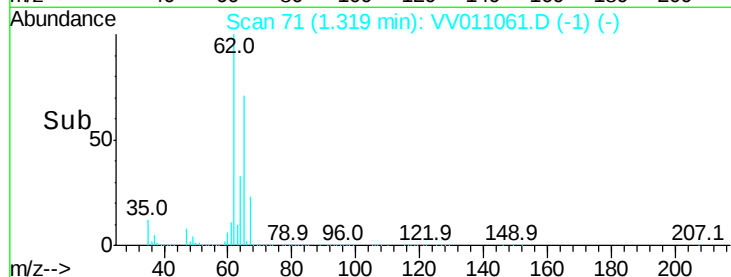
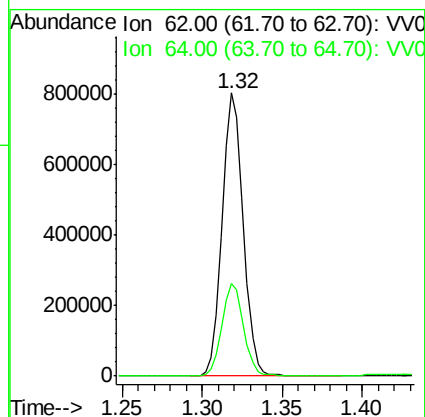
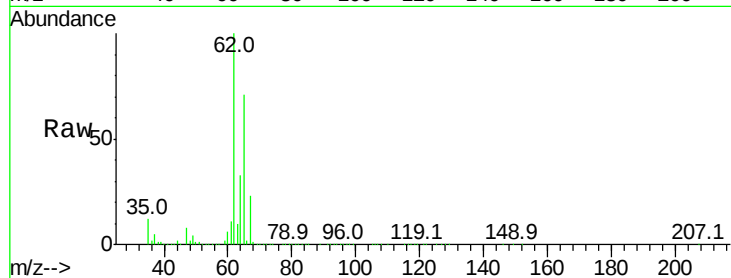
VSTD10070

Tgt Ion: 62 Resp: 728320

Ion Ratio Lower Upper

62 100

64 32.9 23.4 43.6



#6

Bromomethane

Concen: 138.132 ug/L

RT: 1.51 min Scan# 130

Delta R.T. 0.00 min

Lab File: VV011061.D

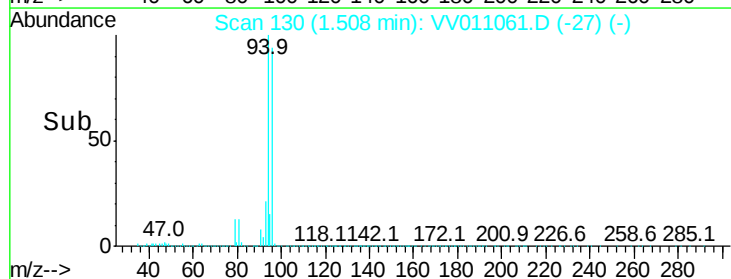
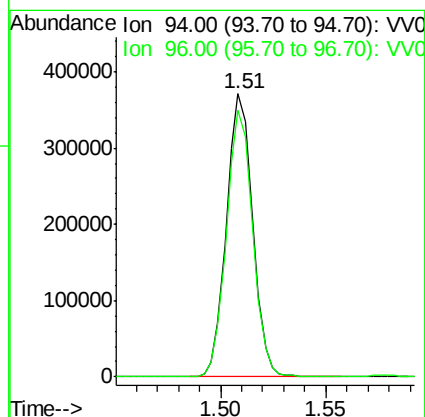
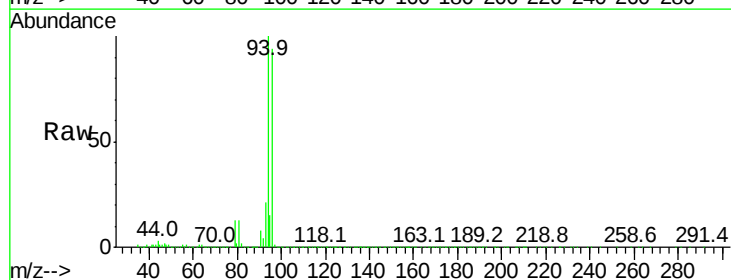
Acq: 28 May 2019 12:24

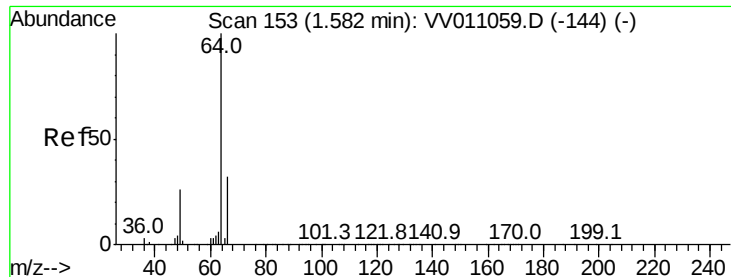
Tgt Ion: 94 Resp: 318456

Ion Ratio Lower Upper

94 100

96 94.2 9.5 179.7





#8

Chloroethane

Concen: 120.454 ug/L

RT: 1.58 min Scan# 151

Delta R.T. -0.01 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

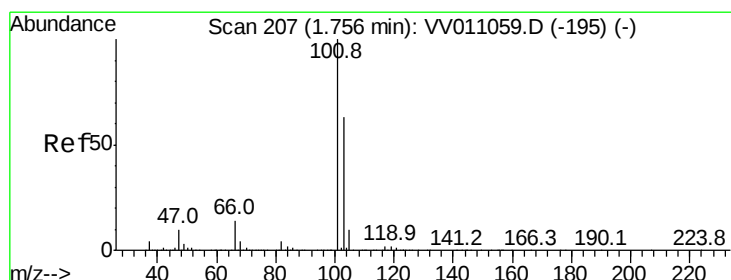
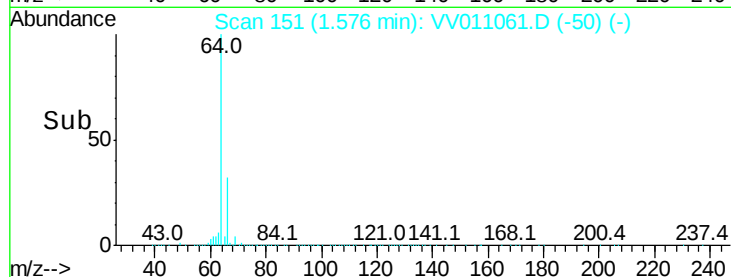
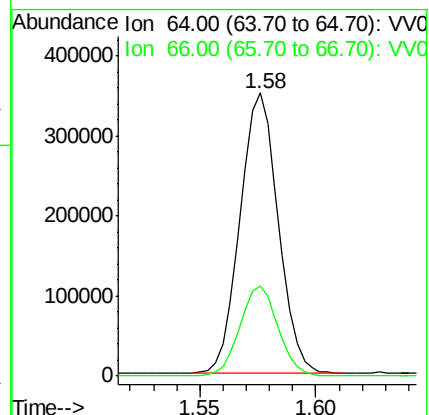
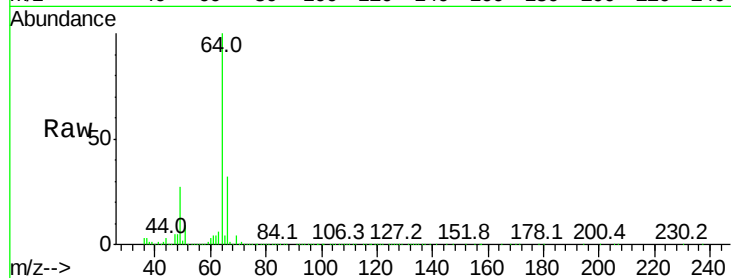
VSTD10070

Tgt Ion: 64 Resp: 398528

Ion Ratio Lower Upper

64 100

66 31.8 21.7 40.3



#9

Trichlorofluoromethane

Concen: 91.015 ug/L

RT: 1.75 min Scan# 206

Delta R.T. -0.00 min

Lab File: VV011061.D

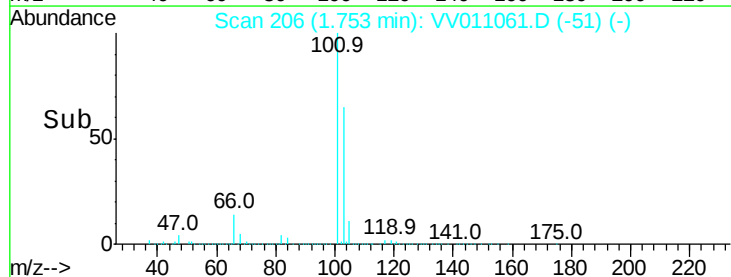
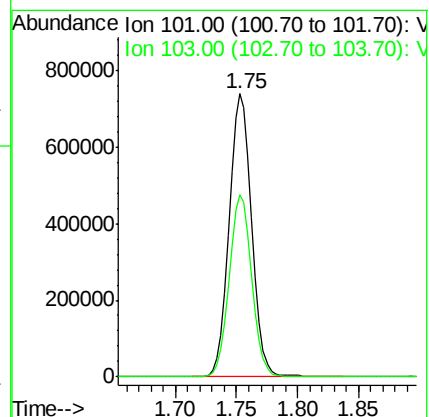
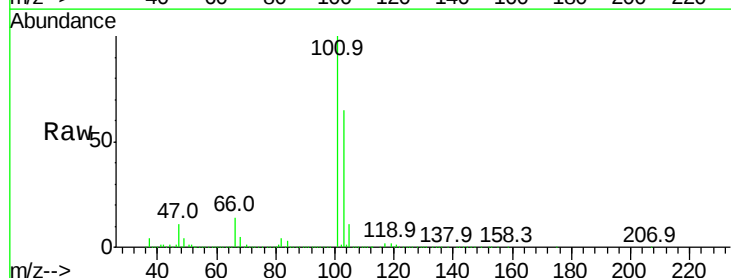
Acq: 28 May 2019 12:24

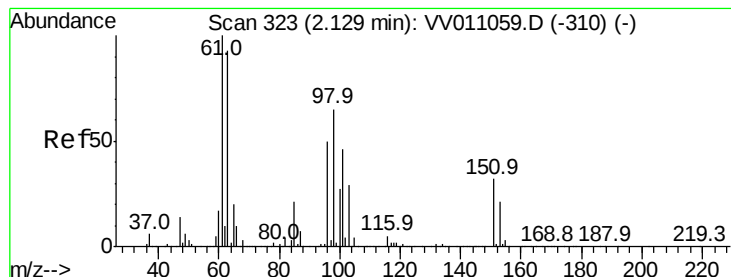
Tgt Ion: 101 Resp: 959136

Ion Ratio Lower Upper

101 100

103 64.6 44.4 82.4





#11

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

Concen: 81.511 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD10070

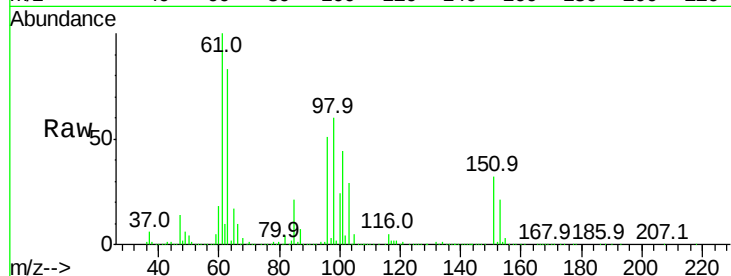
Tgt Ion: 101 Resp: 489832

Ion Ratio Lower Upper

101 100

85 44.9 36.1 54.1

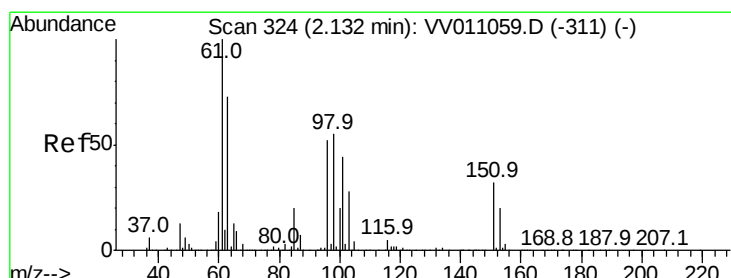
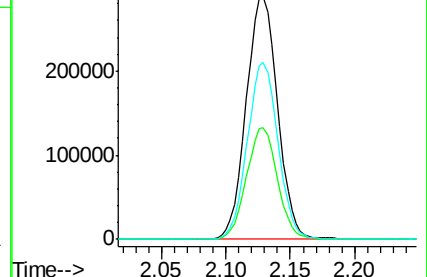
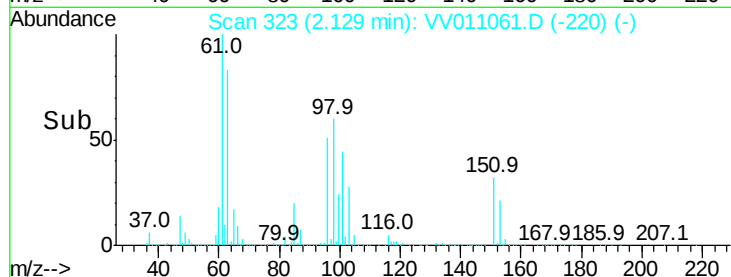
151 71.6 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): VV011061.D (-220) (-)

Ion 85.00 (84.70 to 85.70): VV011061.D (-220) (-)

Ion 151.00 (150.70 to 151.70): VV011061.D (-220) (-)



#12

1,1-Dichloroethene

Concen: 91.257 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

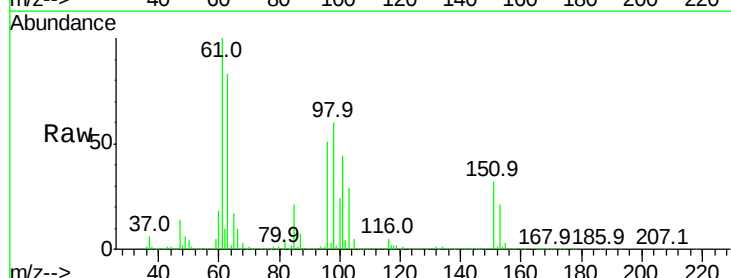
Tgt Ion: 96 Resp: 474081

Ion Ratio Lower Upper

96 100

61 196.0 134.1 249.1

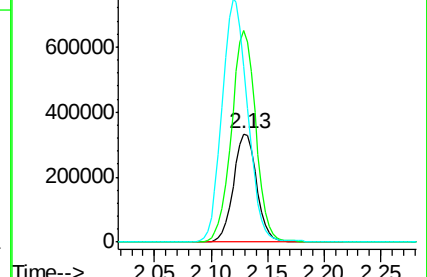
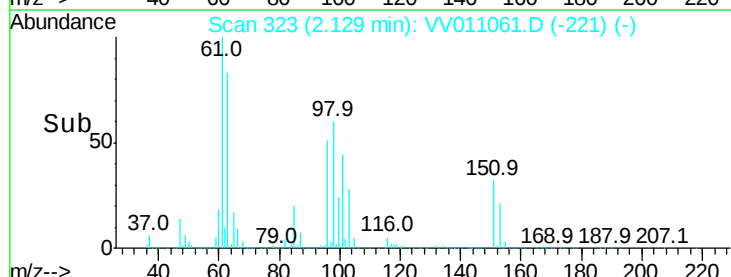
63 163.0 98.1 182.3

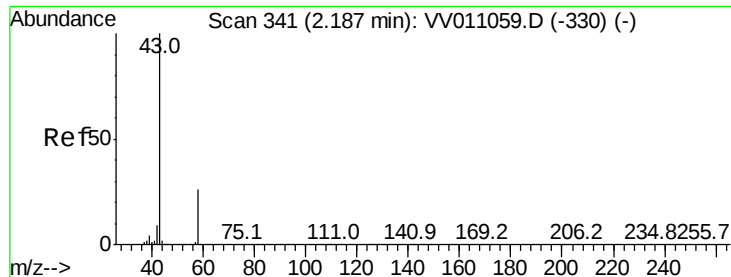


Abundance Ion 96.00 (95.70 to 96.70): VV011061.D (-221) (-)

Ion 61.00 (60.70 to 61.70): VV011061.D (-221) (-)

Ion 63.00 (62.70 to 63.70): VV011061.D (-221) (-)

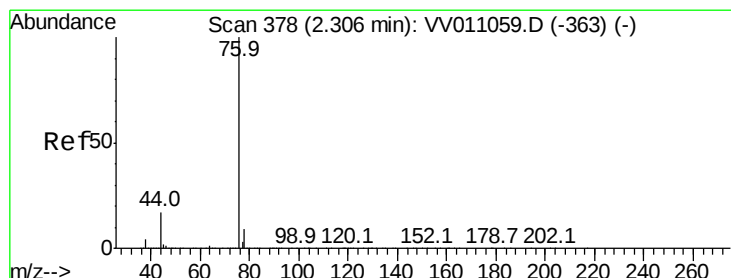
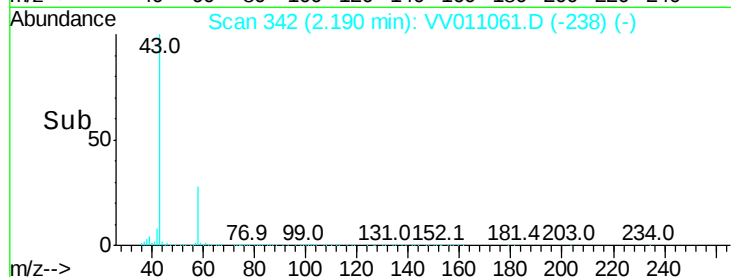
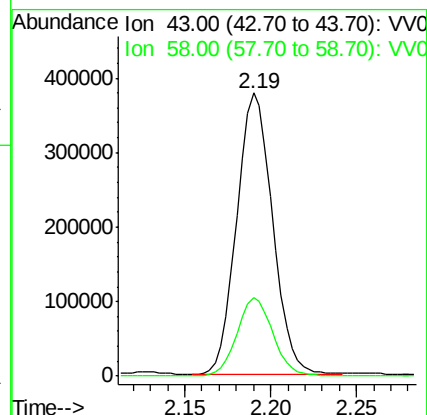
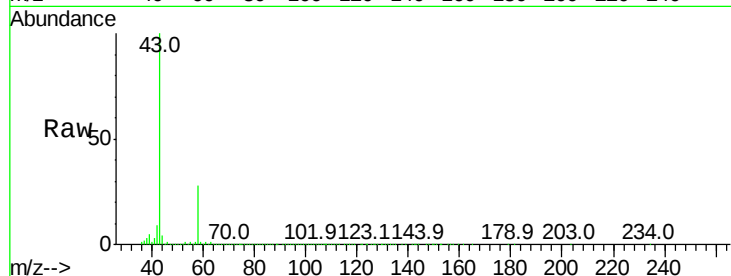




#13
Acetone
Concen: 293.578 ug/L
RT: 2.19 min Scan# 342
Delta R.T. 0.00 min
Lab File: VV011061.D
Acq: 28 May 2019 12:24

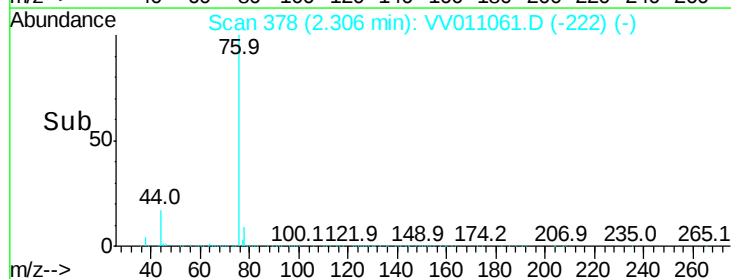
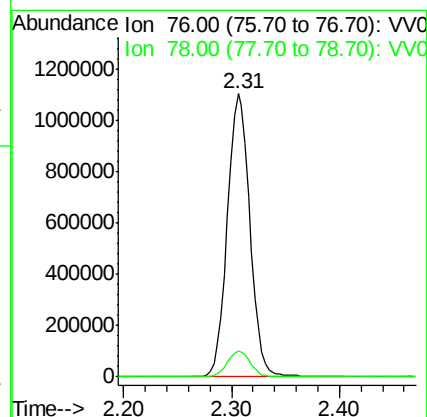
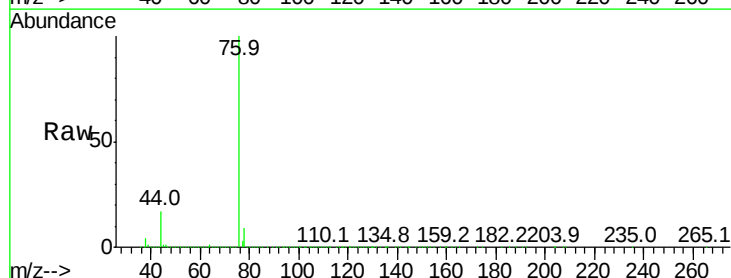
Instrument :
MSVOA_V
ClientSampleId :
VSTD10070

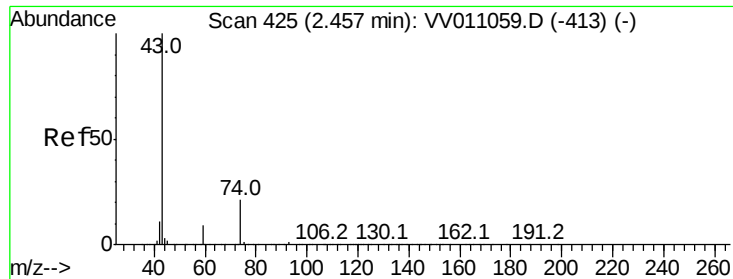
Tgt Ion: 43 Resp: 548260
Ion Ratio Lower Upper
43 100
58 27.6 0.0 54.8



#14
Carbon disulfide
Concen: 110.372 ug/L
RT: 2.31 min Scan# 378
Delta R.T. 0.00 min
Lab File: VV011061.D
Acq: 28 May 2019 12:24

Tgt Ion: 76 Resp: 1605698
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9





#15

Methyl Acetate

Concen: 99.084 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampled :

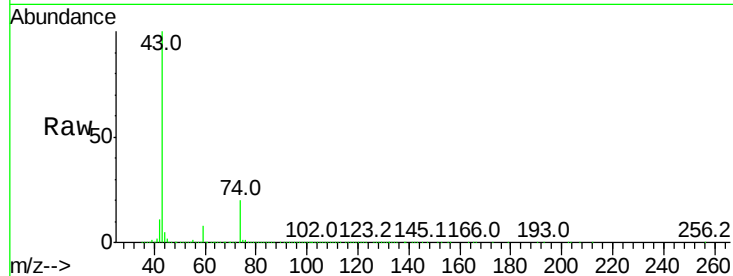
VSTD10070

Tgt Ion: 43 Resp: 355531

Ion Ratio Lower Upper

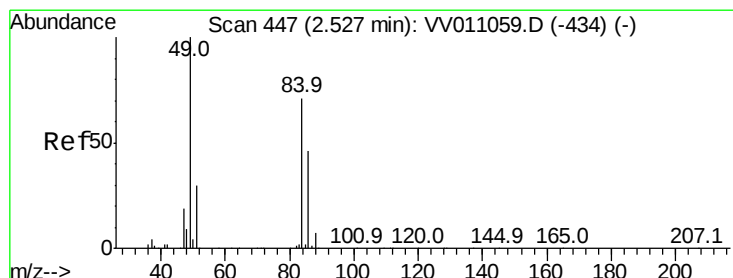
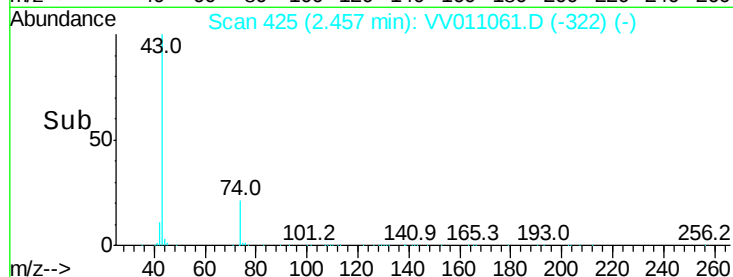
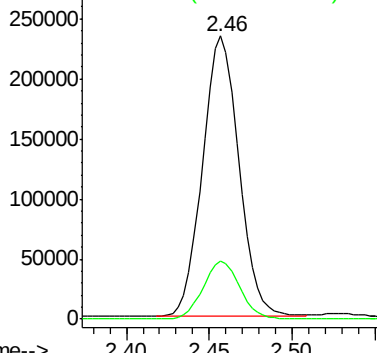
43 100

74 20.8 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: 82.478 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

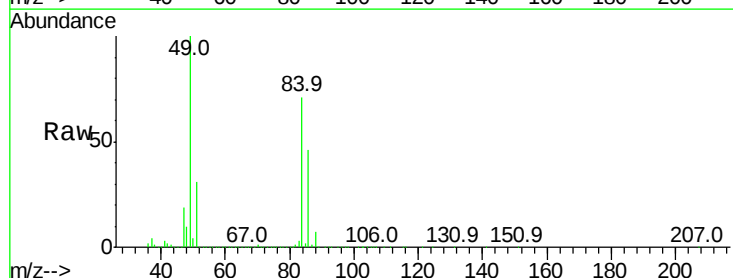
Tgt Ion: 84 Resp: 696817

Ion Ratio Lower Upper

84 100

49 139.9 98.0 182.0

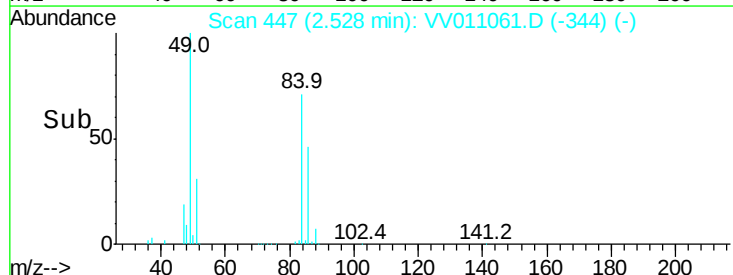
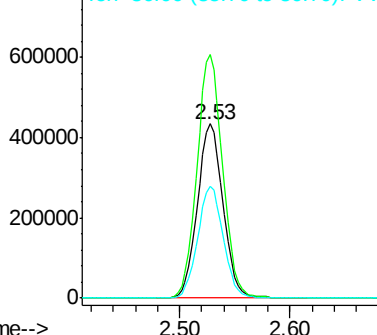
86 64.3 45.4 84.4

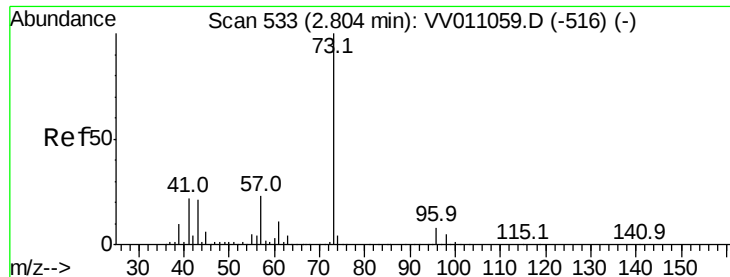


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0



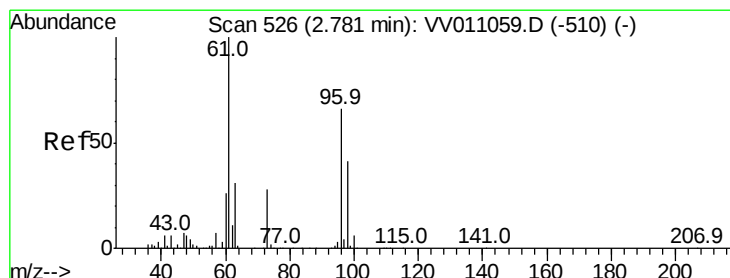
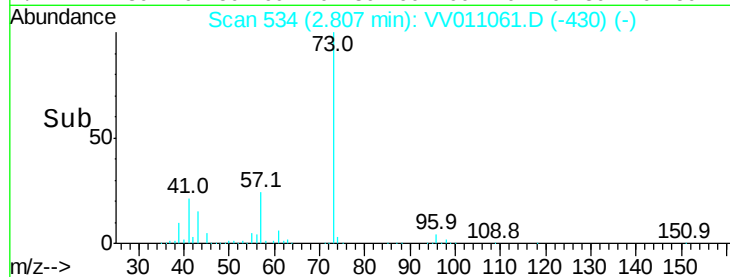
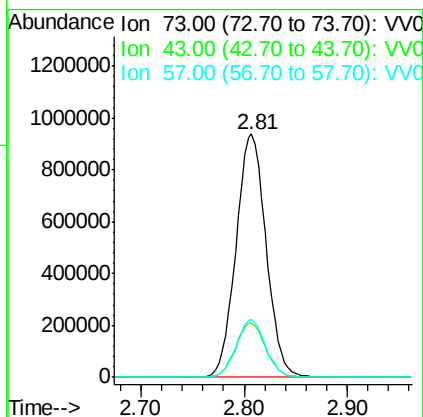
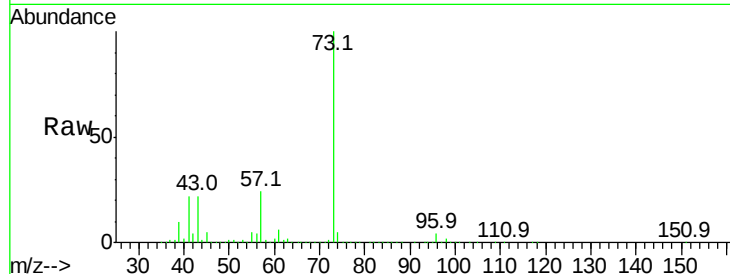


#17
Methyl tert-butyl Ether
Concen: 103.538 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV011061.D
Acq: 28 May 2019 12:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD10070

Tgt Ion: 73 Resp: 1903214

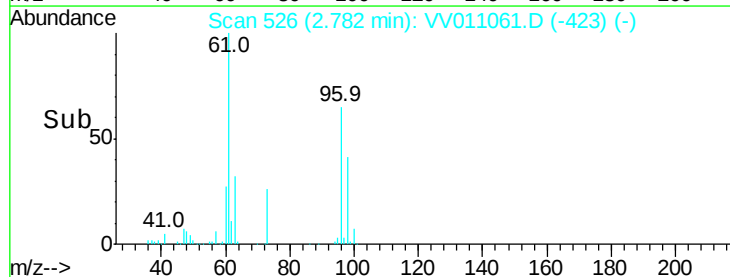
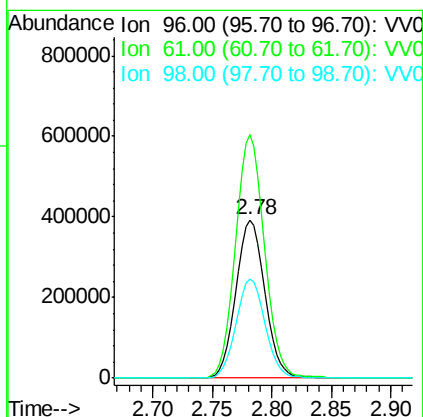
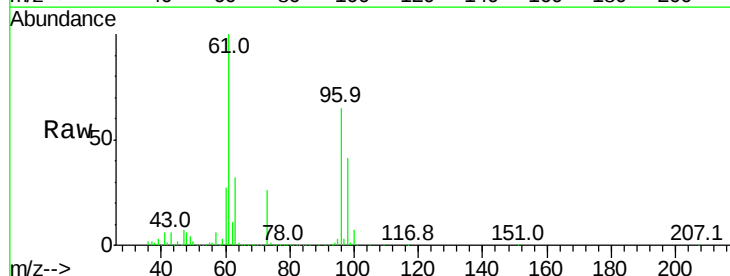
Ion	Ratio	Lower	Upper
73	100		
43	22.1	17.2	25.8
57	23.4	18.5	27.7

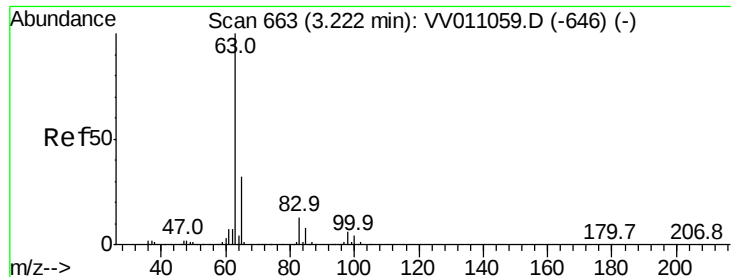


#18
trans-1,2-Dichloroethene
Concen: 92.280 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.00 min
Lab File: VV011061.D
Acq: 28 May 2019 12:24

Tgt Ion: 96 Resp: 661336

Ion	Ratio	Lower	Upper
96	100		
61	153.9	106.5	197.9
98	62.9	44.0	81.8





#19

1,1-Dichloroethane

Concen: 99.867 ug/L

RT: 3.22 min Scan# 663

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD10070

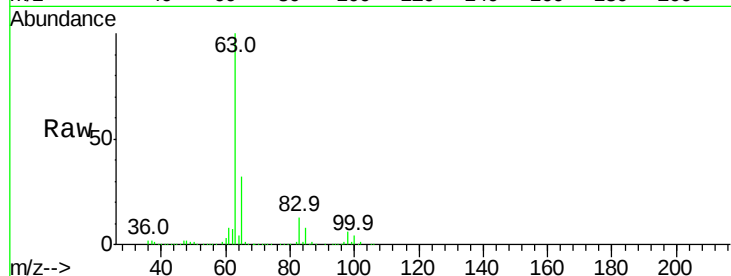
Tgt Ion: 63 Resp: 1303184

Ion Ratio Lower Upper

63 100

65 31.7 22.4 41.6

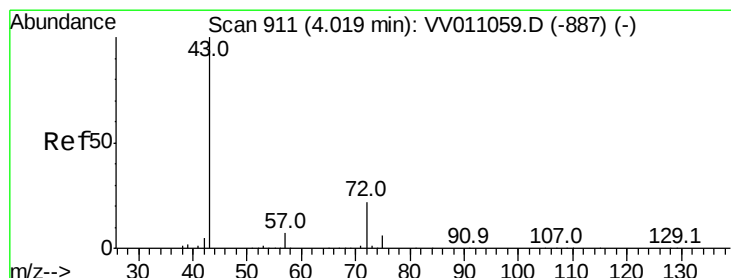
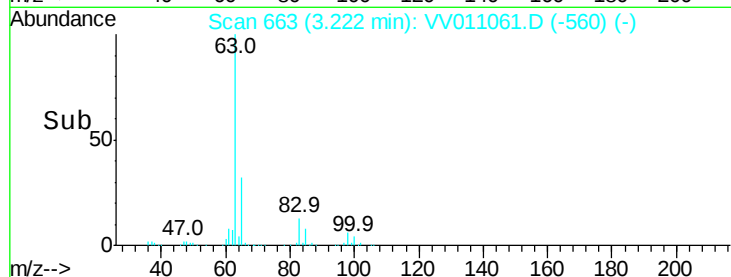
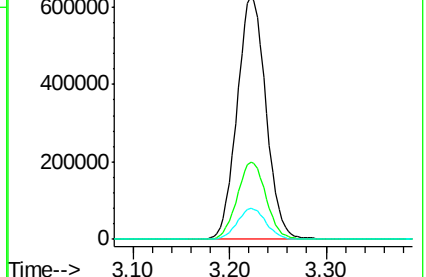
83 12.7 9.2 17.2



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: 302.087 ug/L

RT: 4.02 min Scan# 910

Delta R.T. -0.00 min

Lab File: VV011061.D

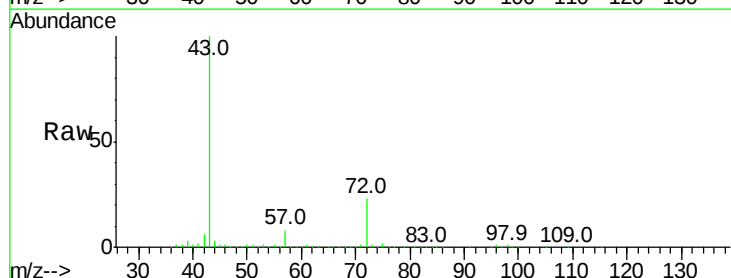
Acq: 28 May 2019 12:24

Tgt Ion: 43 Resp: 772021

Ion Ratio Lower Upper

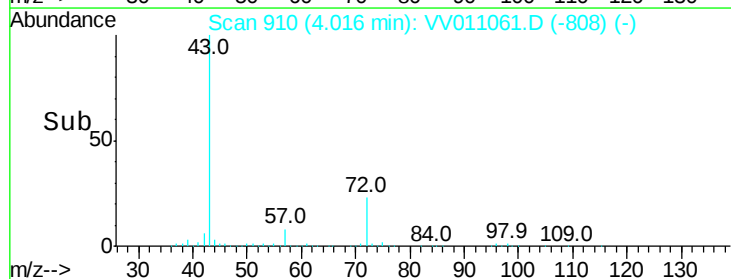
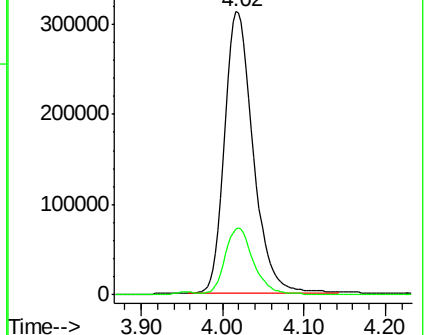
43 100

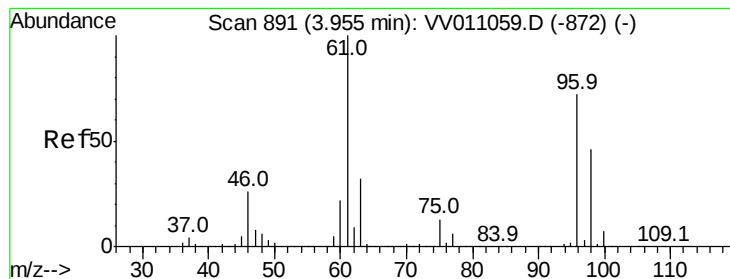
72 23.0 10.7 31.9



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: 94.952 ug/L

RT: 3.96 min Scan# 891

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD10070

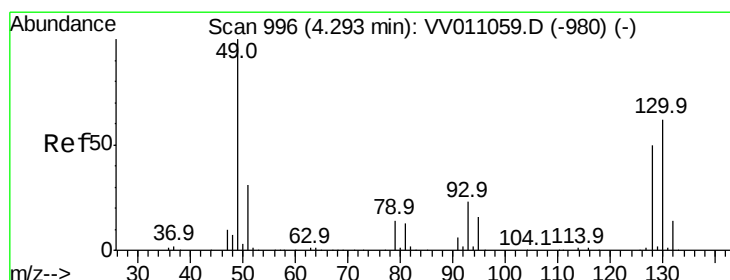
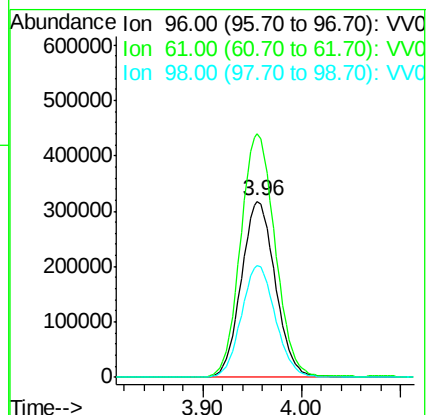
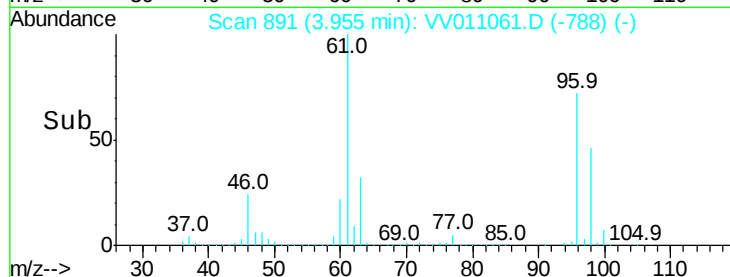
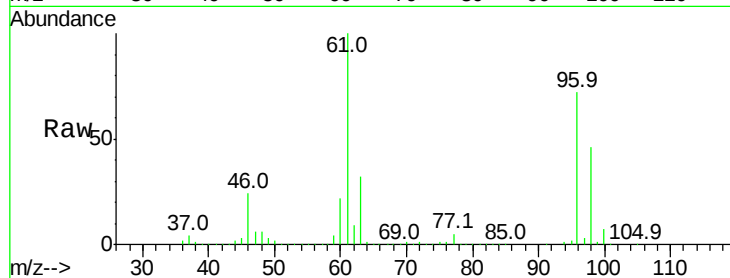
Tgt Ion: 96 Resp: 757673

Ion Ratio Lower Upper

96 100

61 138.2 97.4 180.8

98 63.4 44.4 82.5



#23

Bromochloromethane

Concen: 86.057 ug/L

RT: 4.29 min Scan# 996

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Tgt Ion: 128 Resp: 325429

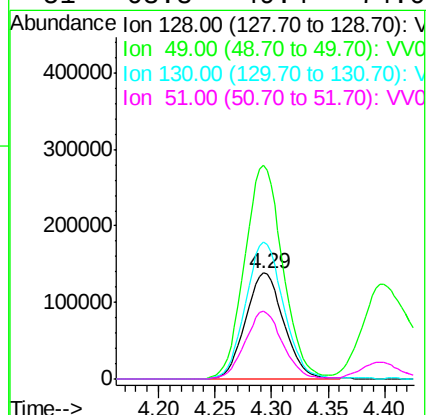
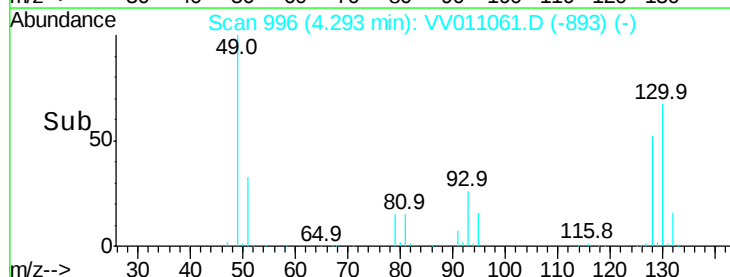
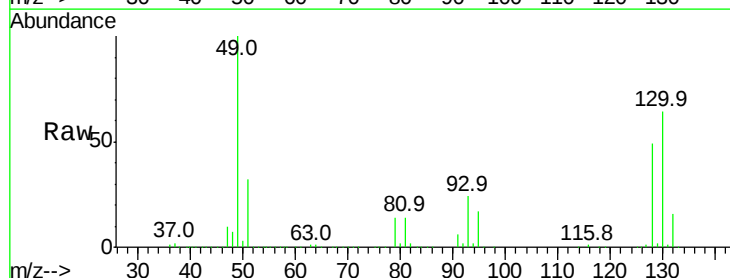
Ion Ratio Lower Upper

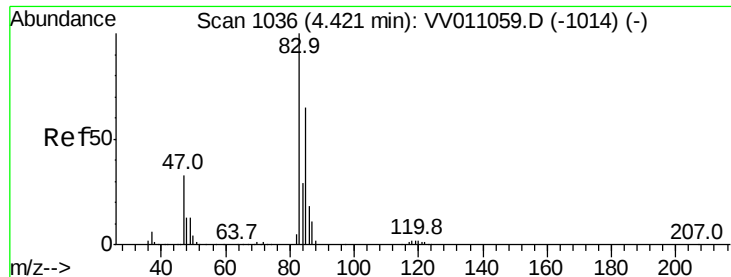
128 100

49 202.1 140.6 261.0

130 129.1 87.2 162.0

51 63.8 49.4 74.0





#25

Chloroform

Concen: 86.641 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

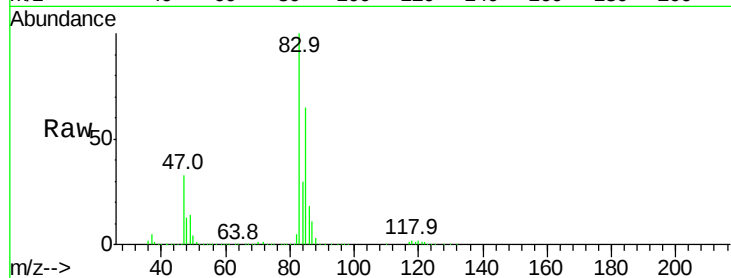
VSTD10070

Tgt Ion: 83 Resp: 1279334

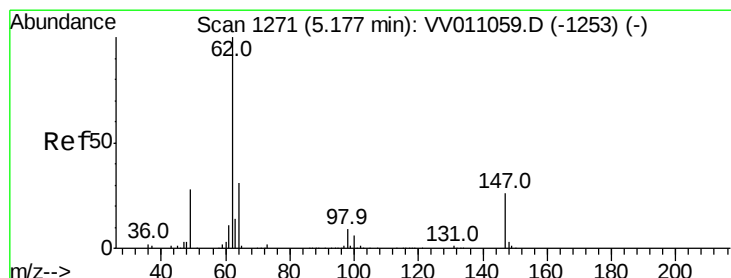
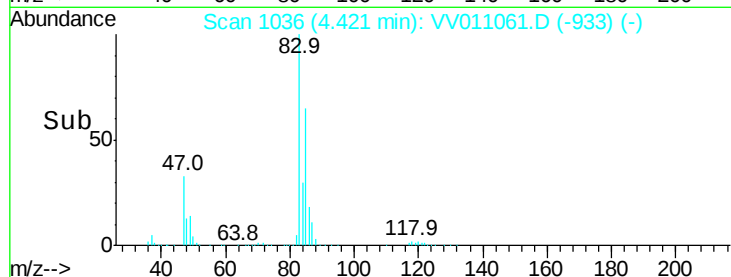
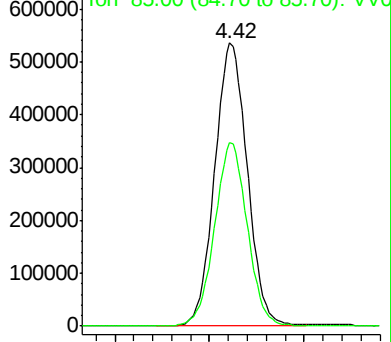
Ion Ratio Lower Upper

83 100

85 65.0 46.2 85.8



Abundance Ion 83.00 (82.70 to 83.70): VV011061.D (-933) (-)



#27

1,2-Dichloroethane

Concen: 104.227 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV011061.D

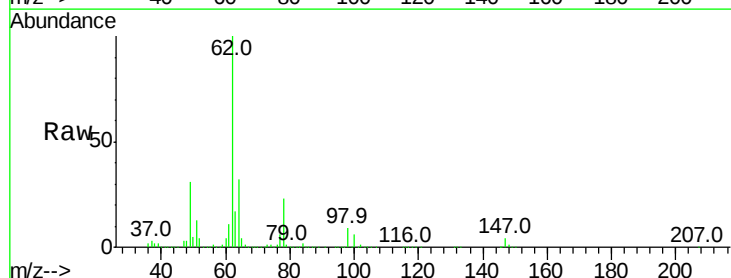
Acq: 28 May 2019 12:24

Tgt Ion: 62 Resp: 946062

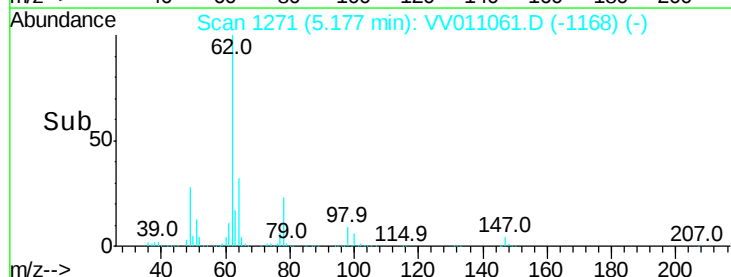
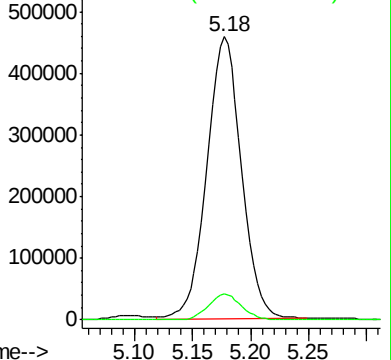
Ion Ratio Lower Upper

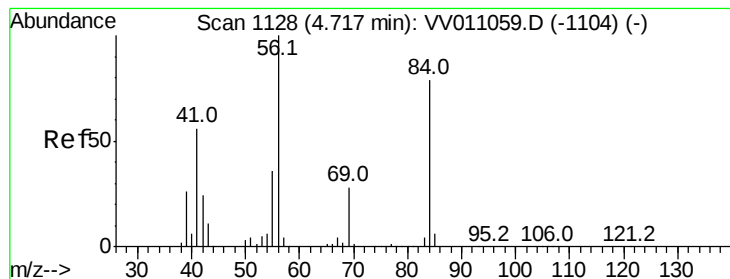
62 100

98 9.1 7.4 11.0



Abundance Ion 62.00 (61.70 to 62.70): VV011061.D (-1168) (-)





#30

Cyclohexane

Concen: 130.050 ug/L

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD10070

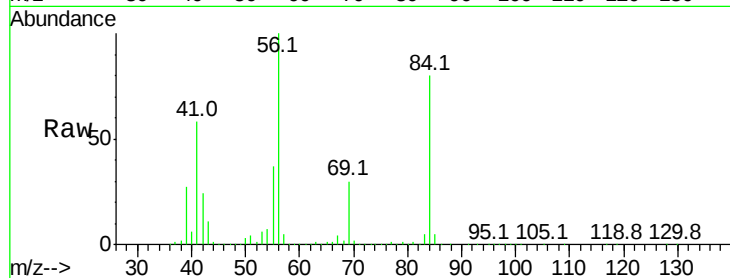
Tgt Ion: 56 Resp: 1283749

Ion Ratio Lower Upper

56 100

69 29.3 23.2 34.8

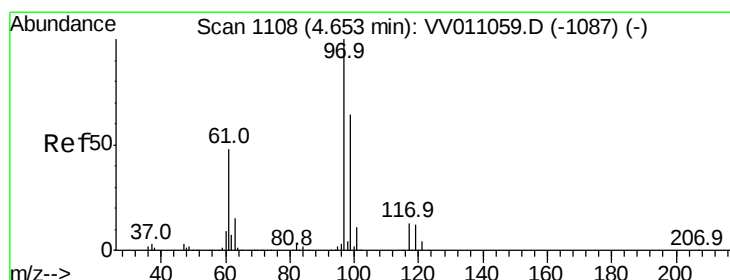
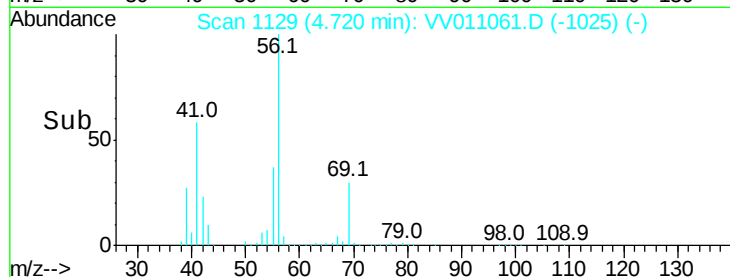
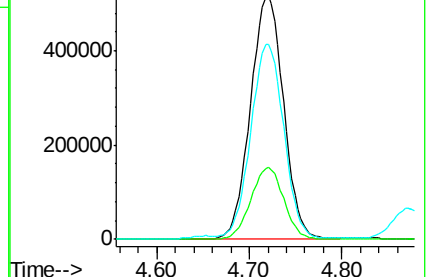
84 79.3 63.2 94.8



Abundance Ion 56.00 (55.70 to 56.70): VV011059.D (-1104) (-)

Ion 69.00 (68.70 to 69.70): VV011059.D (-1104) (-)

Ion 84.00 (83.70 to 84.70): VV011059.D (-1104) (-)



#31

1,1,1-Trichloroethane

Concen: 98.726 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

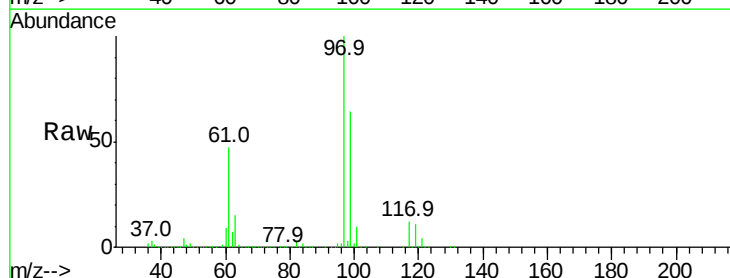
Tgt Ion: 97 Resp: 1054996

Ion Ratio Lower Upper

97 100

99 64.5 51.5 77.3

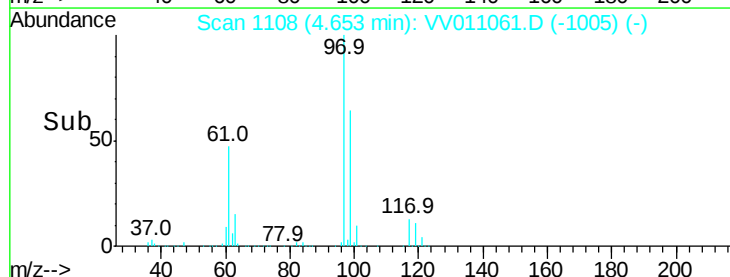
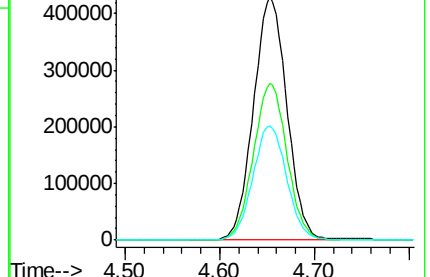
61 47.3 38.2 57.2

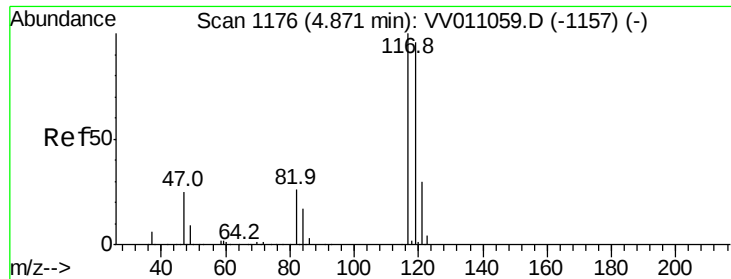


Abundance Ion 97.00 (96.70 to 97.70): VV011059.D (-1087) (-)

Ion 99.00 (98.70 to 99.70): VV011059.D (-1087) (-)

Ion 61.00 (60.70 to 61.70): VV011059.D (-1087) (-)





#32

Carbon tetrachloride

Concen: 92.587 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

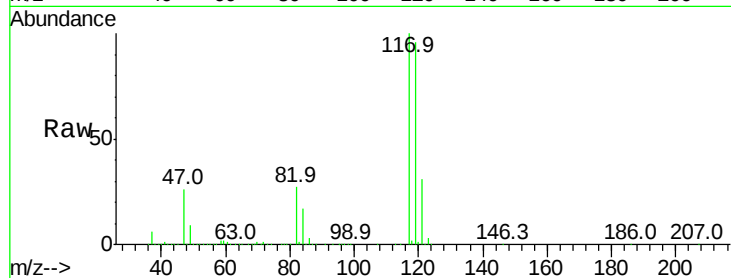
VSTD10070

Tgt Ion:117 Resp: 902264

Ion Ratio Lower Upper

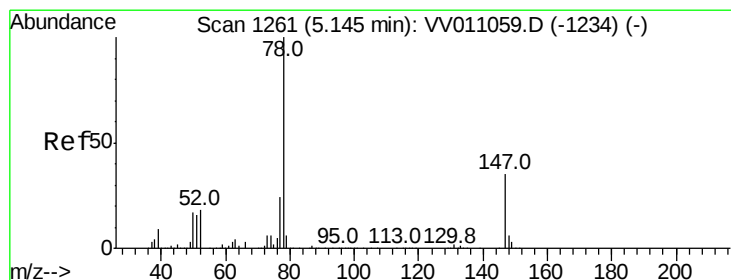
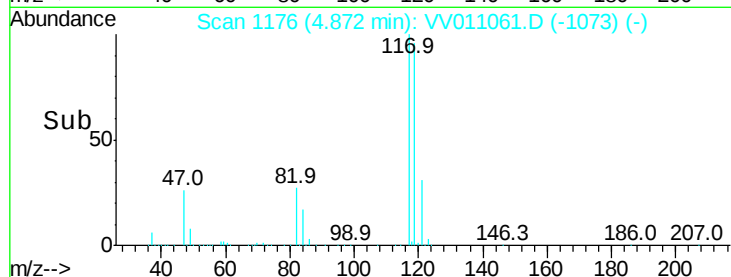
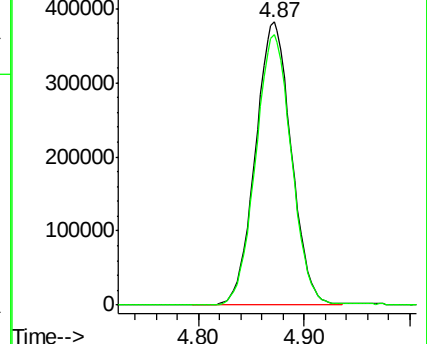
117 100

119 95.5 76.6 115.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 102.809 ug/L

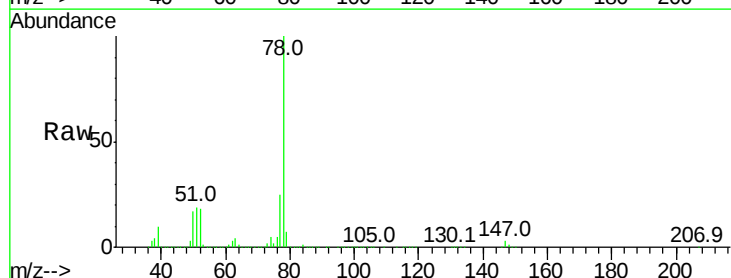
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

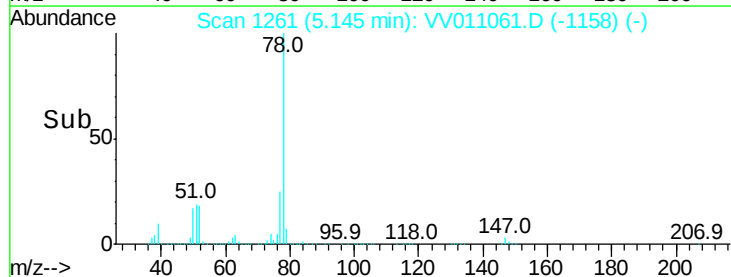
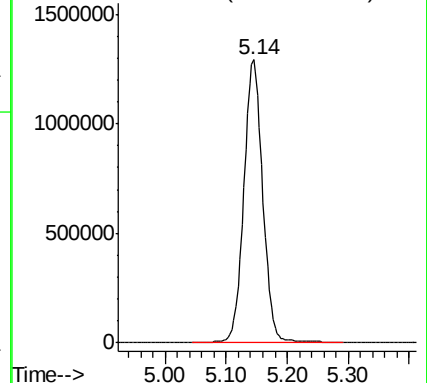
Lab File: VV011061.D

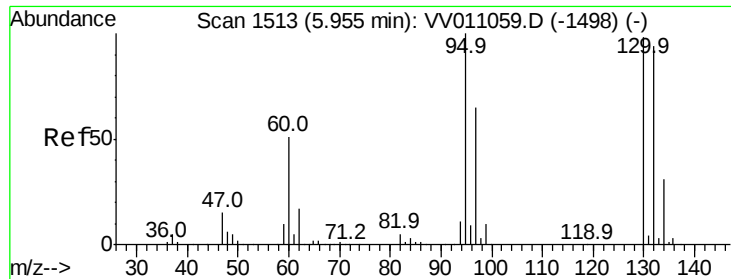
Acq: 28 May 2019 12:24

Tgt Ion: 78 Resp: 2815401



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 96.833 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD10070

Tgt Ion: 95 Resp: 732675

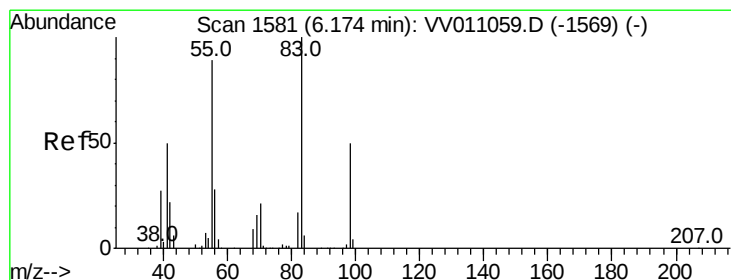
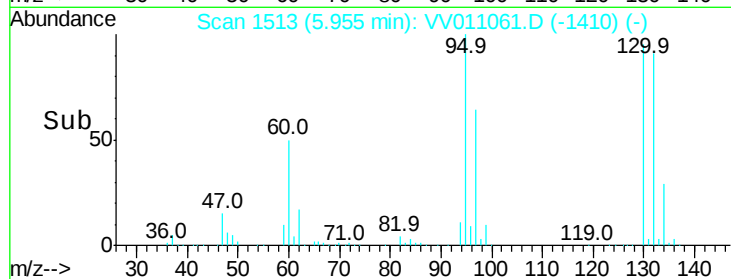
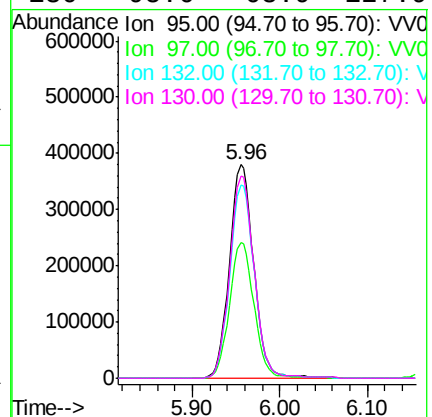
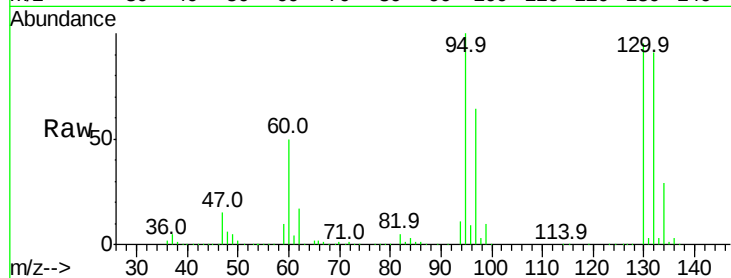
Ion Ratio Lower Upper

95 100

97 64.1 45.4 84.4

132 91.8 66.1 122.8

130 95.6 68.9 127.9



#36

Methylcyclohexane

Concen: 111.326 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

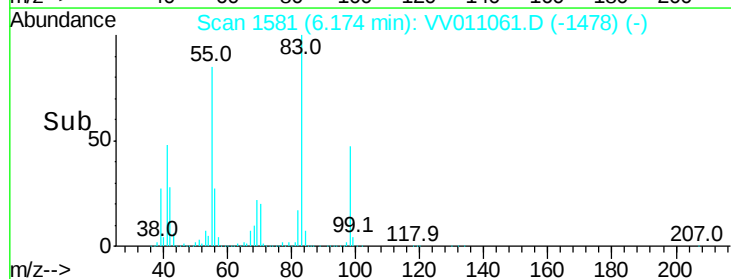
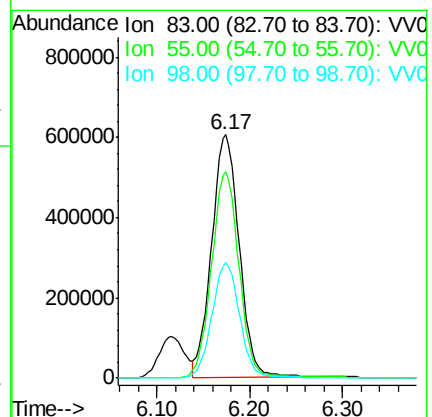
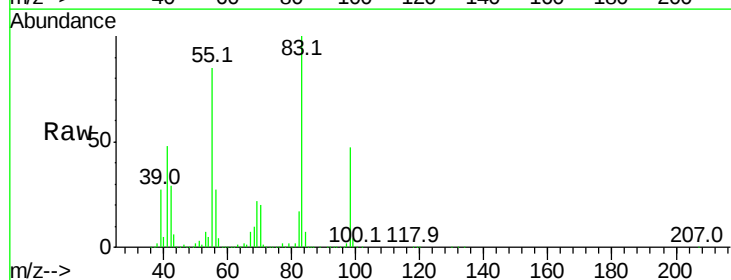
Tgt Ion: 83 Resp: 1245270

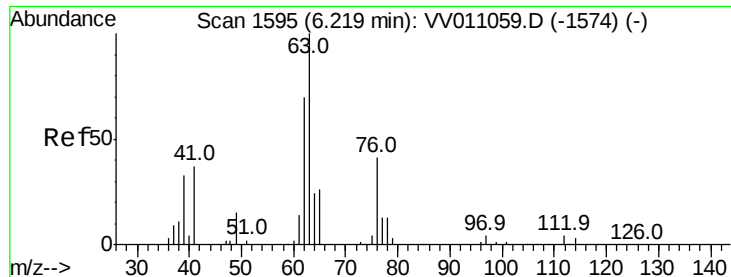
Ion Ratio Lower Upper

83 100

55 84.6 69.9 104.9

98 48.4 40.0 60.0

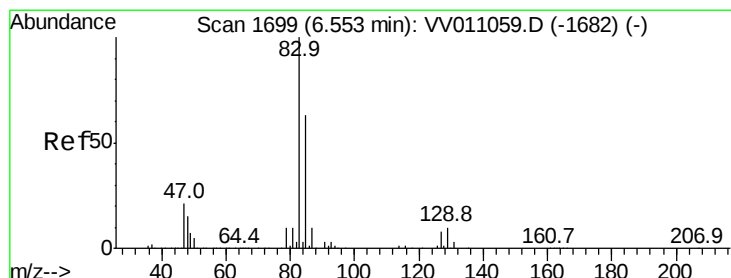
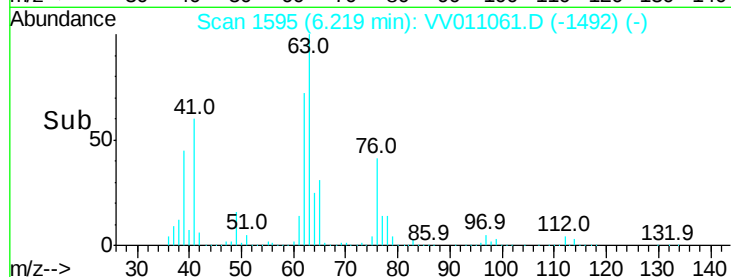
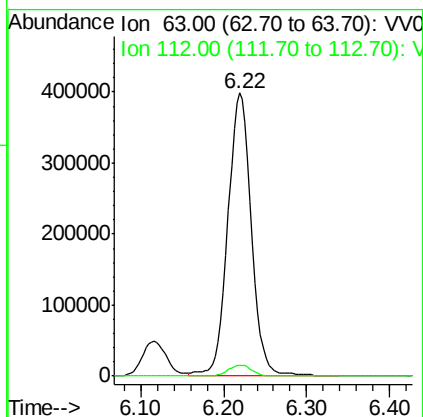
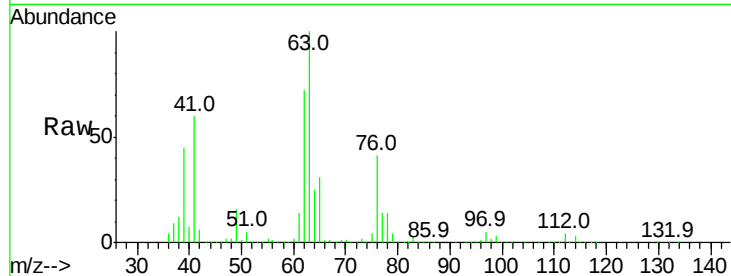




#40
 1,2-Dichloropropane
 Concen: 108.750 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV011061.D
 Acq: 28 May 2019 12:24

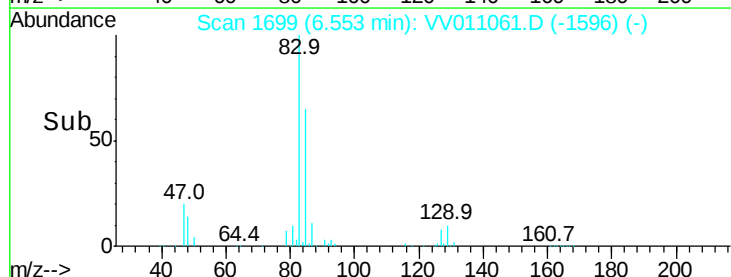
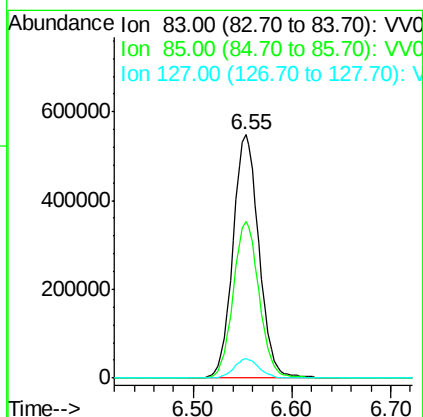
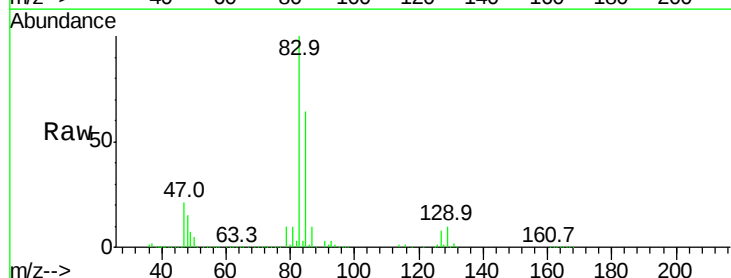
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10070

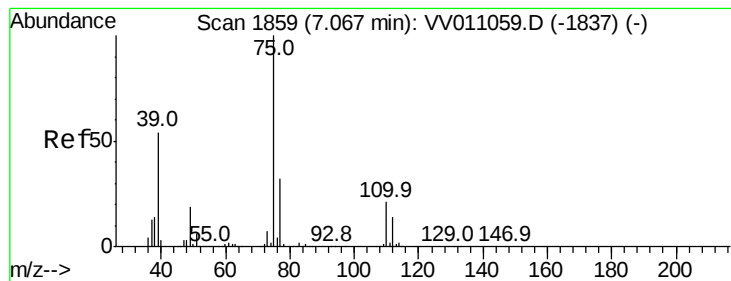
Tgt Ion: 63 Resp: 782667
 Ion Ratio Lower Upper
 63 100
 112 4.0 3.3 4.9



#41
 Bromodichloromethane
 Concen: 104.412 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV011061.D
 Acq: 28 May 2019 12:24

Tgt Ion: 83 Resp: 1004378
 Ion Ratio Lower Upper
 83 100
 85 64.1 44.4 82.4
 127 7.9 6.2 9.4



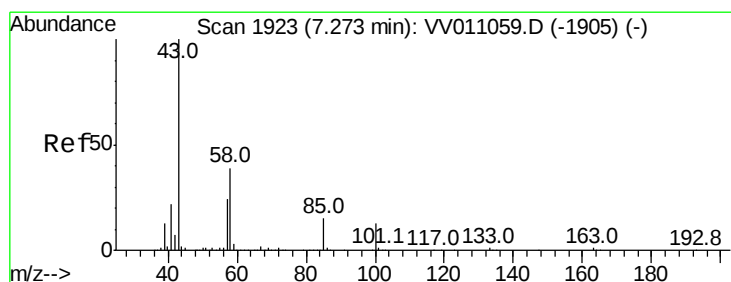
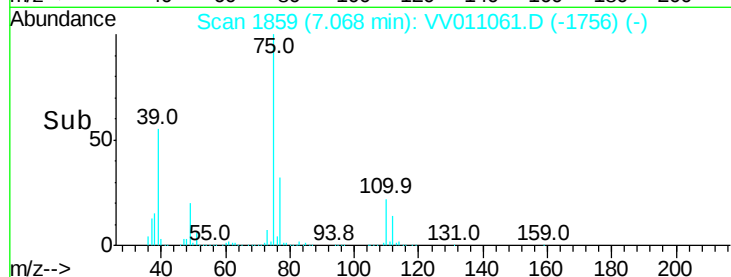
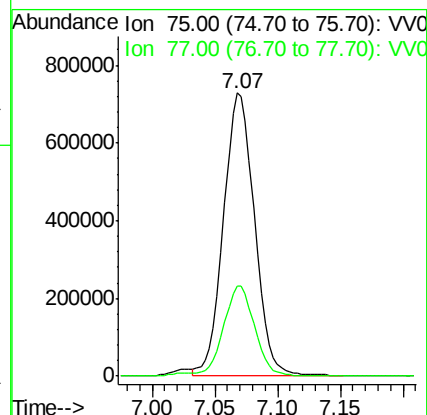
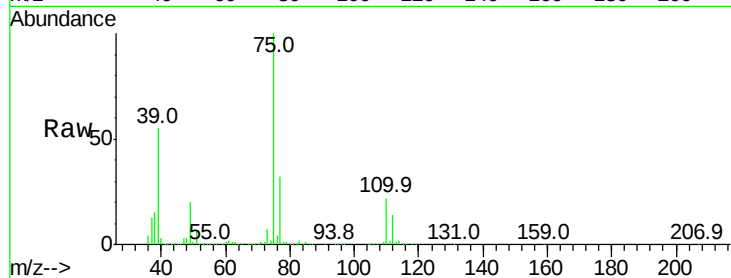


#42

cis-1,3-Dichloropropene
 Concen: 115.999 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV011061.D
 Acq: 28 May 2019 12:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10070

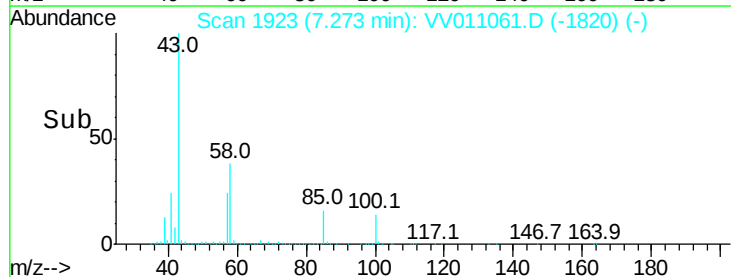
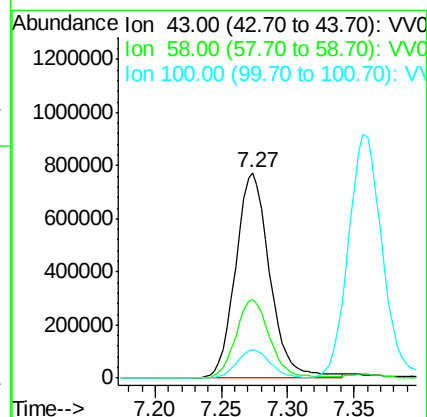
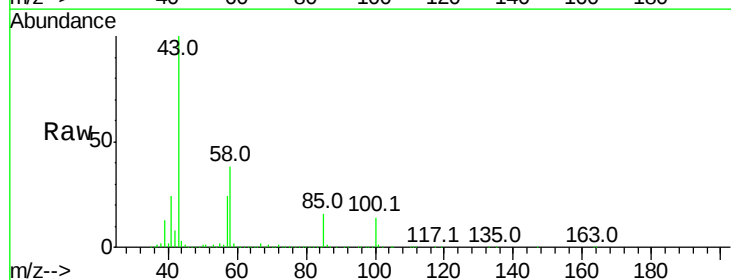
Tgt Ion: 75 Resp: 1242635
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.5 41.7

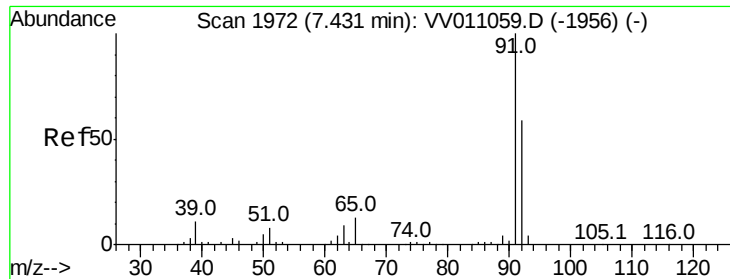


#43

4-Methyl-2-pentanone
 Concen: 267.585 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV011061.D
 Acq: 28 May 2019 12:24

Tgt Ion: 43 Resp: 1380493
 Ion Ratio Lower Upper
 43 100
 58 38.1 30.3 45.5
 100 13.6 10.6 15.8





#44

Toluene

Concen: 100.444 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

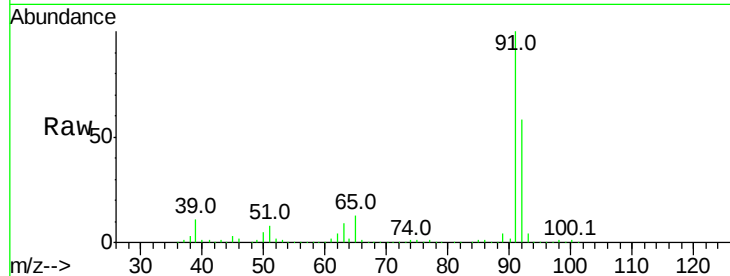
VSTD10070

Tgt Ion: 91 Resp: 3052492

Ion Ratio Lower Upper

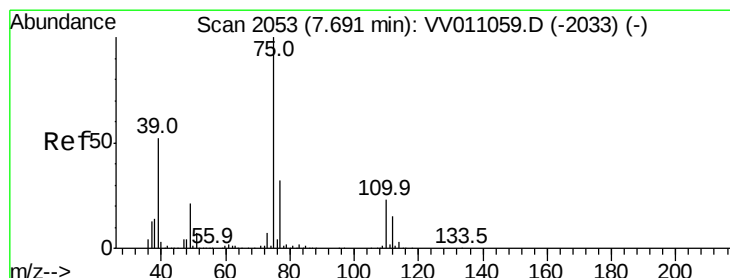
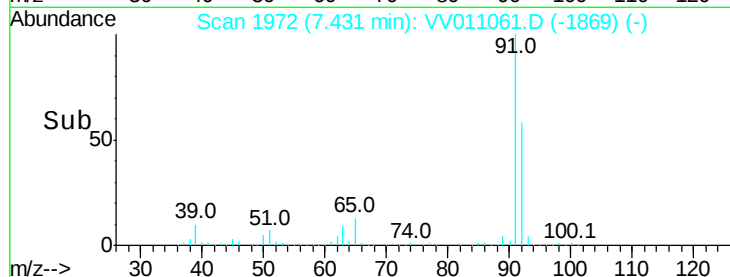
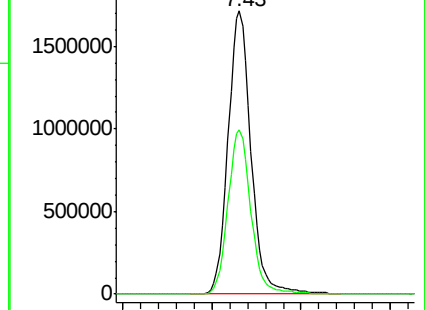
91 100

92 58.0 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV011059.D (-1956) (-)

Ion 92.00 (91.70 to 92.70): VV011059.D (-1956) (-)



#45

trans-1,3-Dichloropropene

Concen: 122.270 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV011061.D

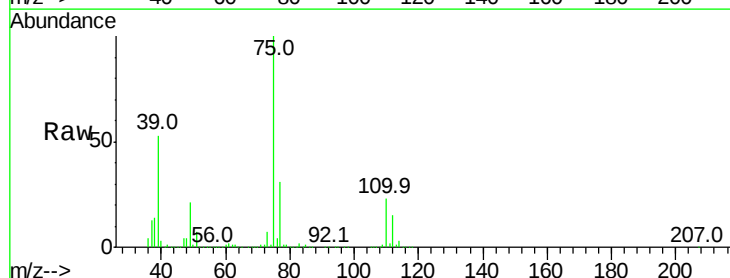
Acq: 28 May 2019 12:24

Tgt Ion: 75 Resp: 1103344

Ion Ratio Lower Upper

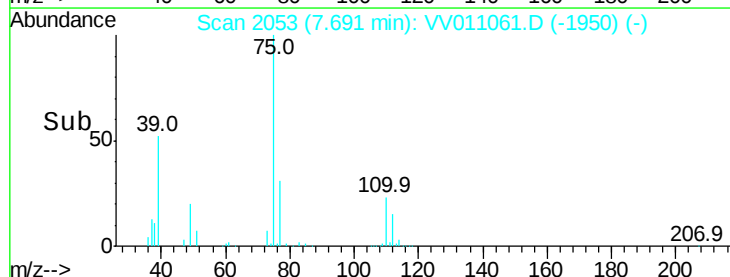
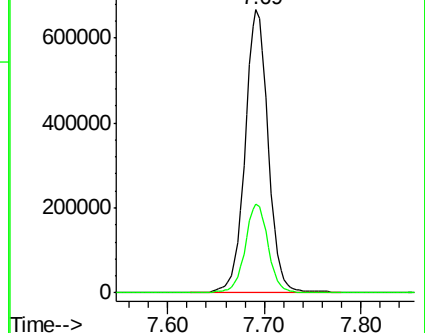
75 100

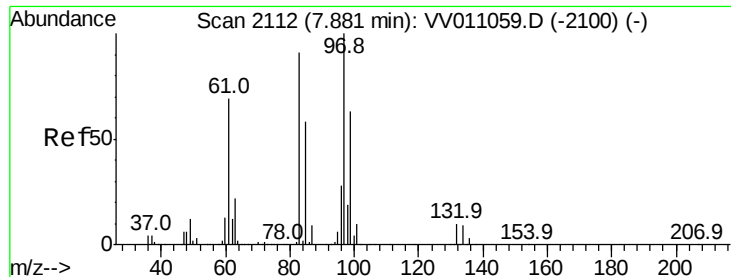
77 31.4 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV011059.D (-2033) (-)

Ion 77.00 (76.70 to 77.70): VV011059.D (-2033) (-)

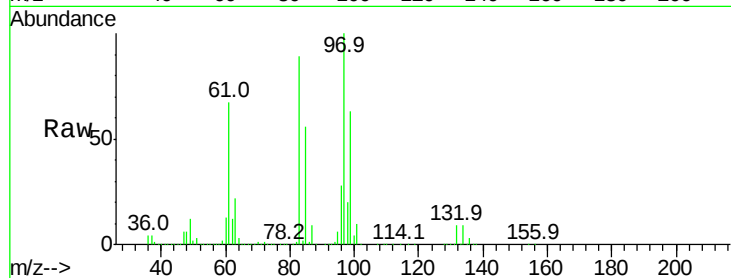




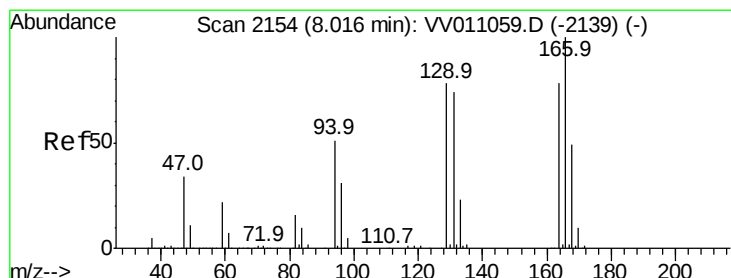
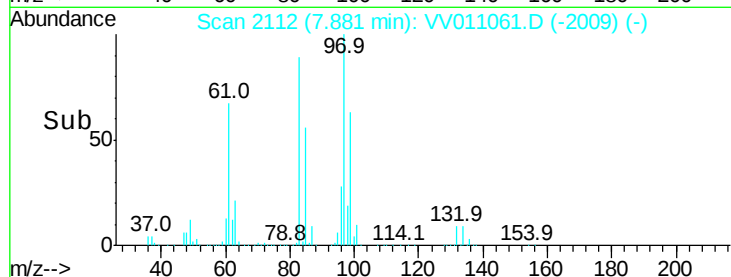
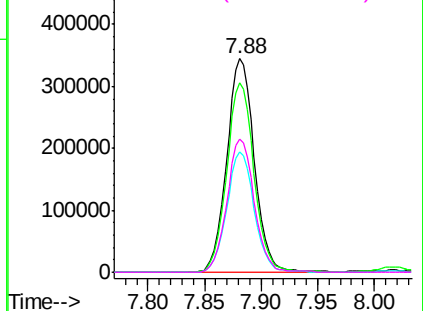
#46
 1,1,2-Trichloroethane
 Concen: 94.658 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV011061.D
 Acq: 28 May 2019 12:24

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD10070

Tgt Ion: 97 Resp: 580503
 Ion Ratio Lower Upper
 97 100
 83 88.8 63.5 117.9
 85 56.4 40.3 74.9
 99 62.6 44.4 82.5

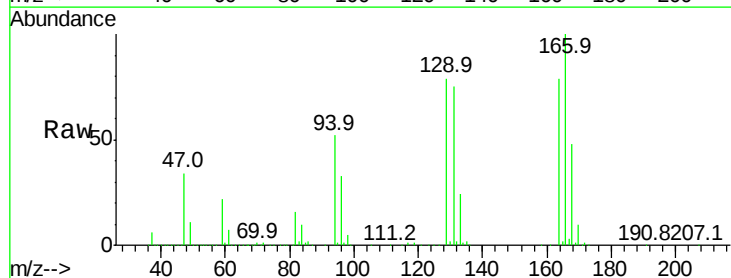


Abundance Ion 97.00 (96.70 to 97.70): VV011059.D (-2100) (-)
 Ion 83.00 (82.70 to 83.70): VV011059.D (-2100) (-)
 Ion 85.00 (84.70 to 85.70): VV011059.D (-2100) (-)
 Ion 99.00 (98.70 to 99.70): VV011059.D (-2100) (-)

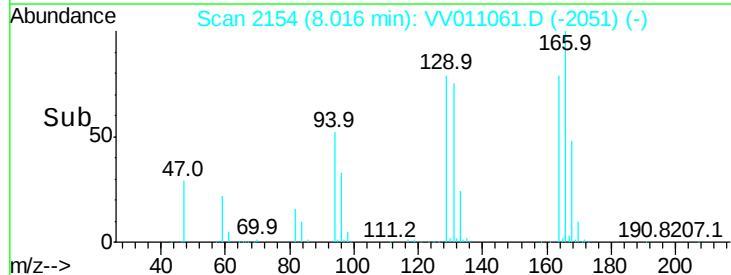
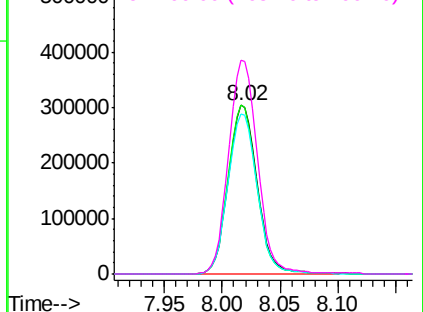


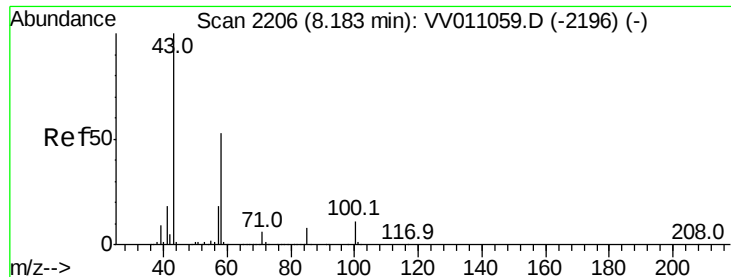
#47
 Tetrachloroethene
 Concen: 88.547 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV011061.D
 Acq: 28 May 2019 12:24

Tgt Ion: 164 Resp: 522976
 Ion Ratio Lower Upper
 164 100
 129 100.1 70.7 131.3
 131 94.9 66.6 123.8
 166 126.6 90.2 167.6



Abundance Ion 164.00 (163.70 to 164.70): VV011059.D (-2139) (-)
 Ion 129.00 (128.70 to 129.70): VV011059.D (-2139) (-)
 Ion 131.00 (130.70 to 131.70): VV011059.D (-2139) (-)
 Ion 166.00 (165.70 to 166.70): VV011059.D (-2139) (-)



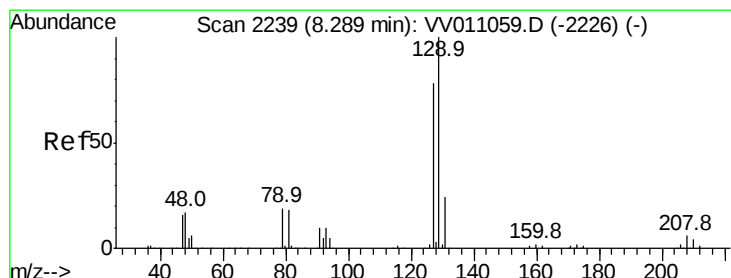
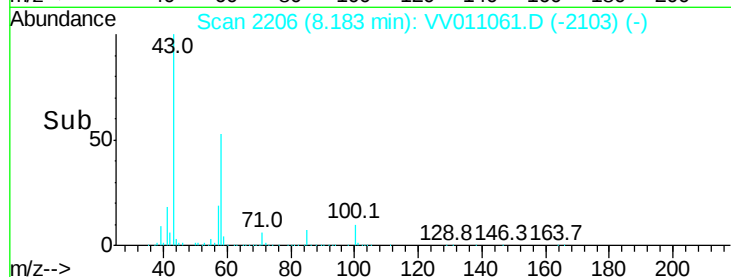
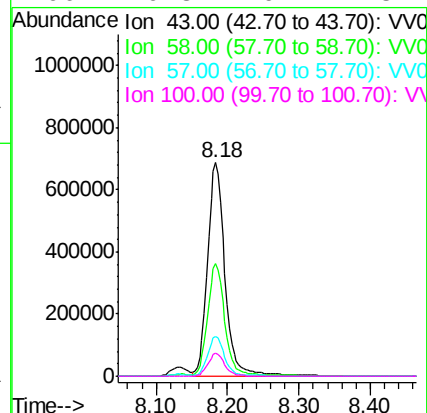
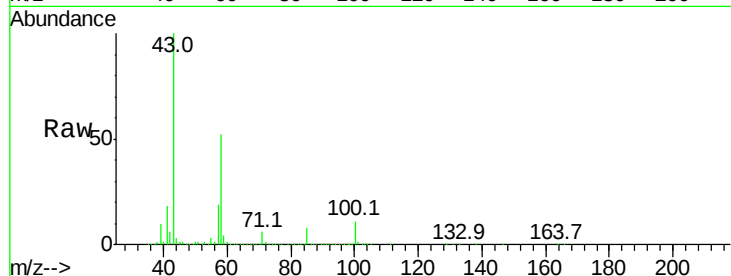


#49
2-Hexanone
Concen: 308.410 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV011061.D
Acq: 28 May 2019 12:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD10070

Tgt Ion: 43 Resp: 1161716

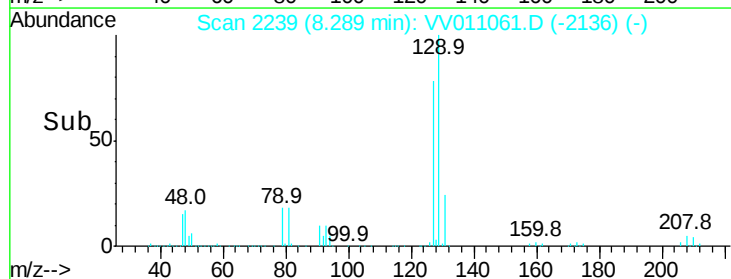
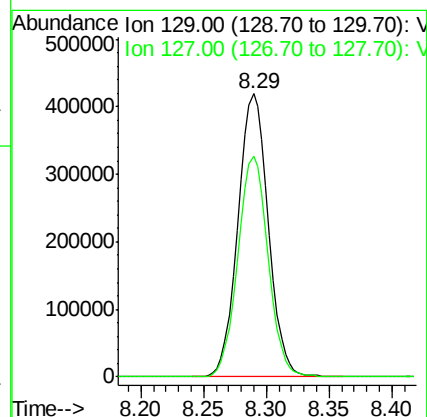
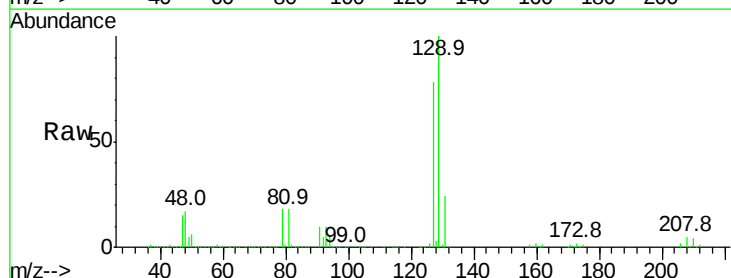
Ion	Ratio	Lower	Upper
43	100		
58	52.1	43.5	65.3
57	17.6	13.7	20.5
100	10.3	9.1	13.7

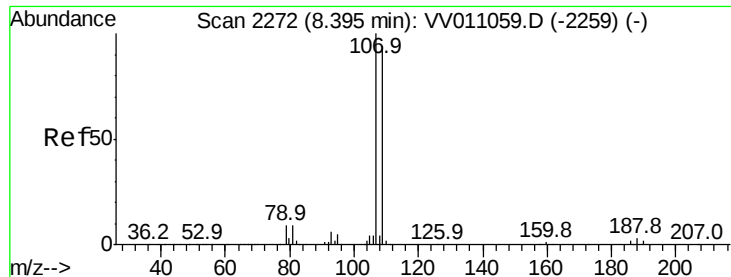


#50
Dibromochloromethane
Concen: 97.663 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011061.D
Acq: 28 May 2019 12:24

Tgt Ion: 129 Resp: 704952

Ion	Ratio	Lower	Upper
129	100		
127	78.0	54.6	101.4





#51

1,2-Dibromoethane

Concen: 96.941 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD10070

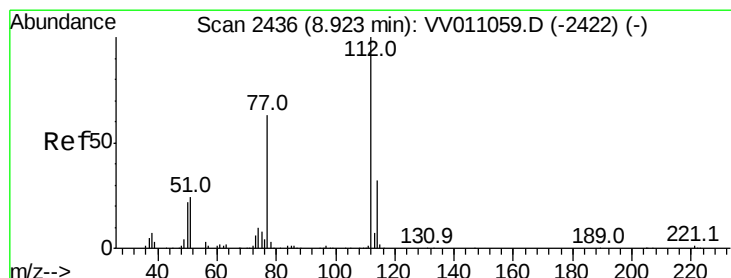
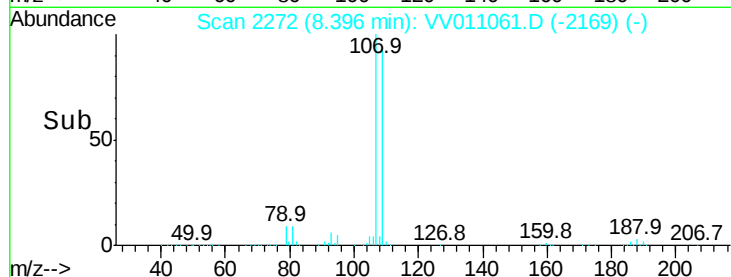
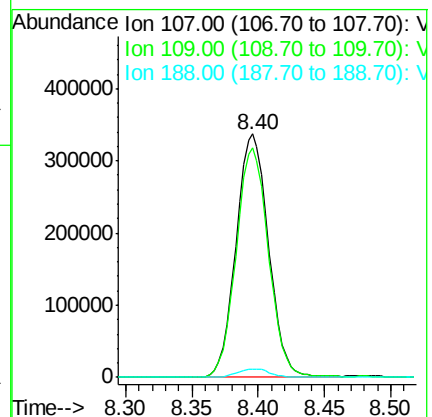
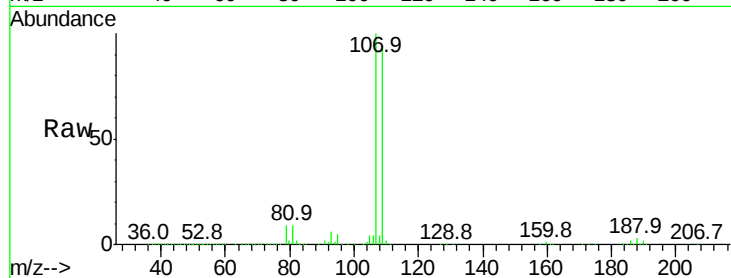
Tgt Ion:107 Resp: 574915

Ion Ratio Lower Upper

107 100

109 94.1 65.7 122.1

188 3.4 2.6 3.8



#52

Chlorobenzene

Concen: 93.320 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

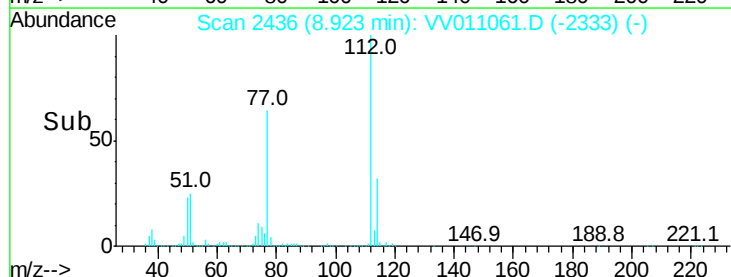
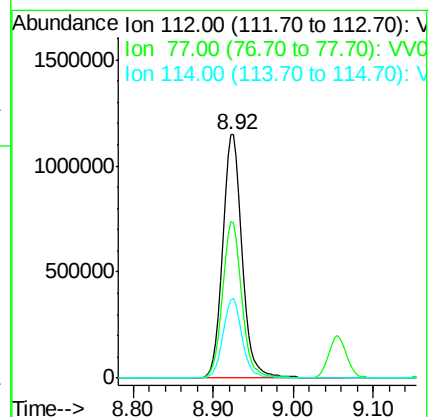
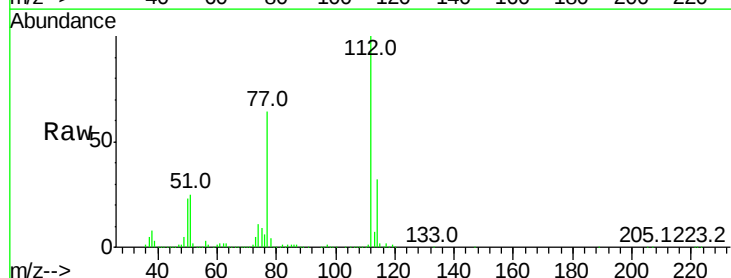
Tgt Ion:112 Resp: 1943864

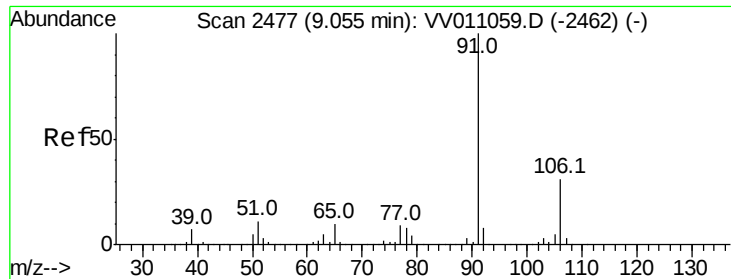
Ion Ratio Lower Upper

112 100

77 64.3 50.8 76.2

114 32.3 22.7 42.1

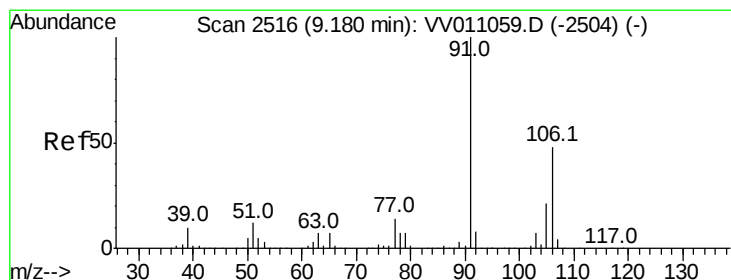
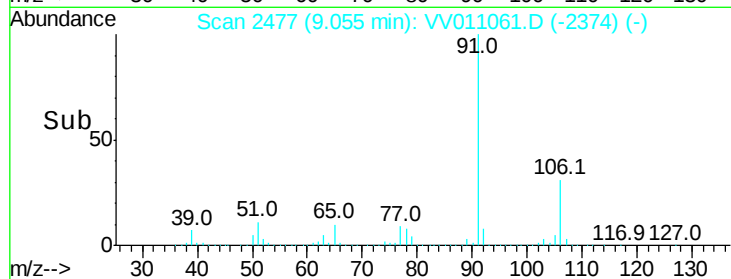
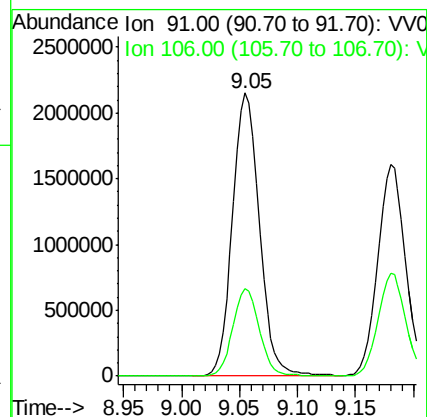
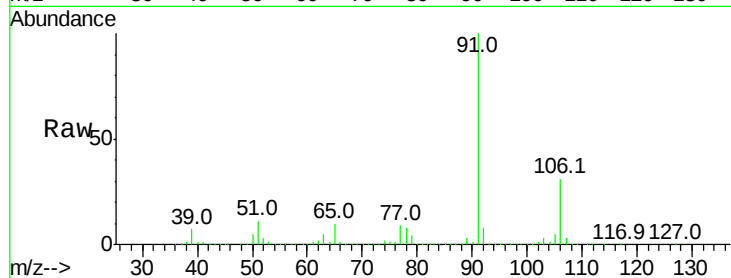




#53
Ethylbenzene
Concen: 104.923 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV011061.D
Acq: 28 May 2019 12:24

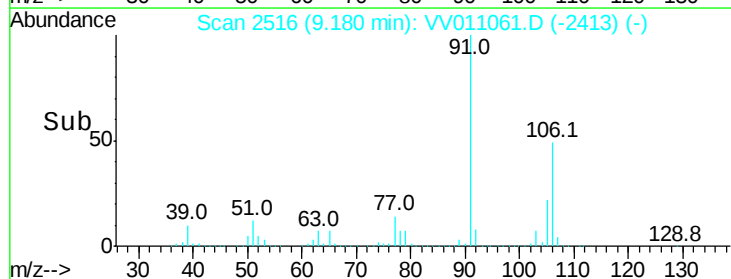
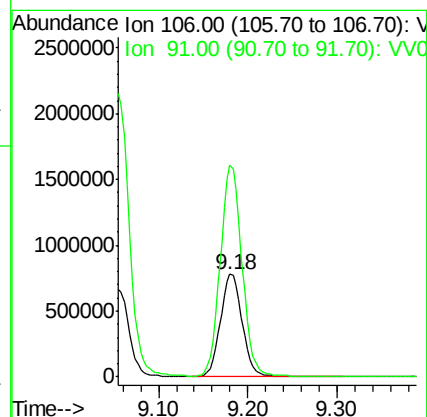
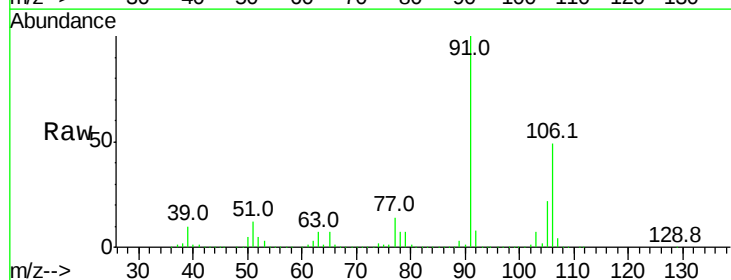
Instrument :
MSVOA_V
ClientSampleId :
VSTD10070

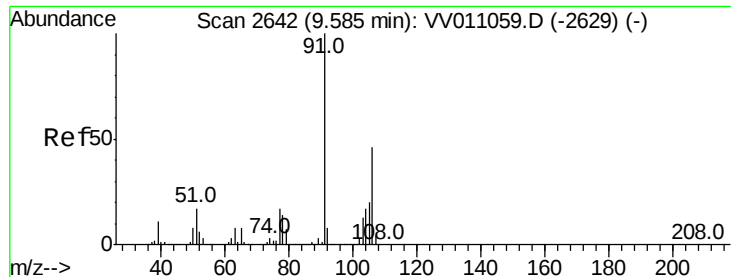
Tgt Ion: 91 Resp: 3474386
Ion Ratio Lower Upper
91 100
106 30.8 21.3 39.6



#54
m,p-Xylene
Concen: 101.915 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. 0.00 min
Lab File: VV011061.D
Acq: 28 May 2019 12:24

Tgt Ion: 106 Resp: 1315322
Ion Ratio Lower Upper
106 100
91 206.1 145.7 270.7





#55

o-xylene

Concen: 104.429 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

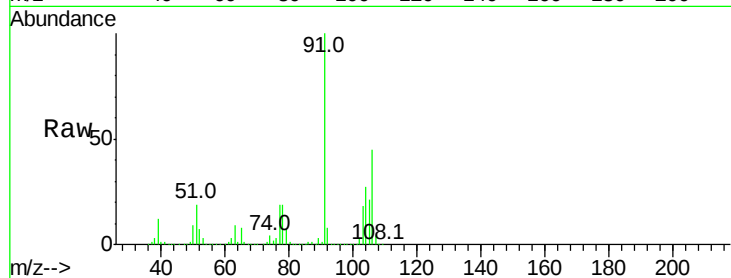
VSTD10070

Tgt Ion:106 Resp: 1285855

Ion Ratio Lower Upper

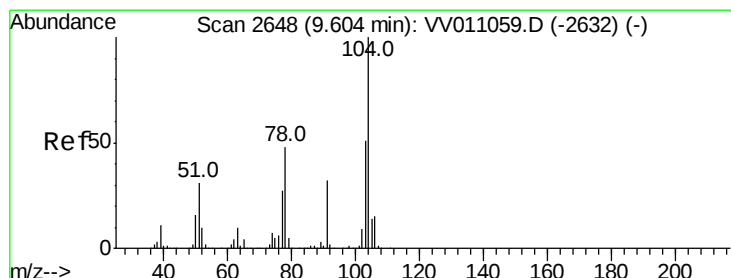
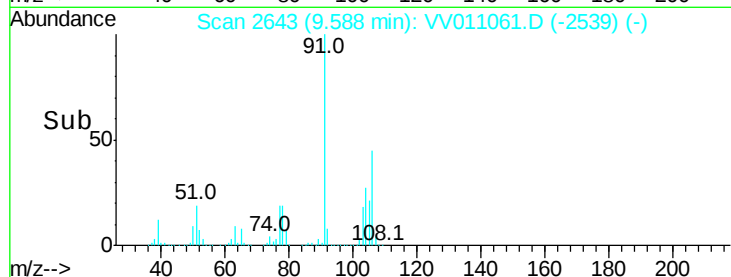
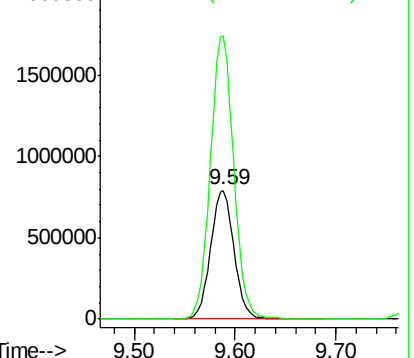
106 100

91 220.1 151.5 281.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 104.830 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV011061.D

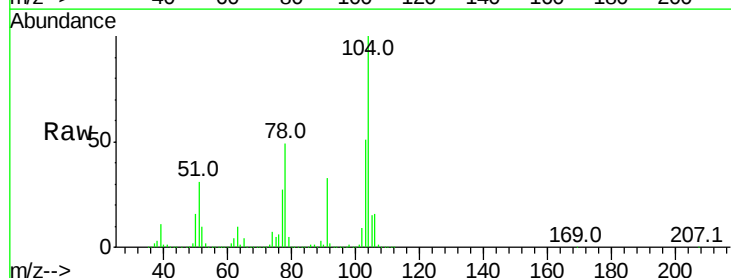
Acq: 28 May 2019 12:24

Tgt Ion:104 Resp: 2224625

Ion Ratio Lower Upper

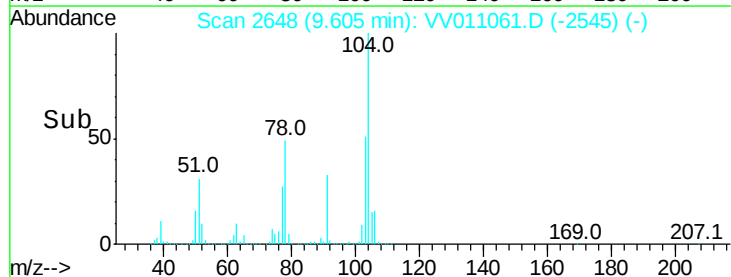
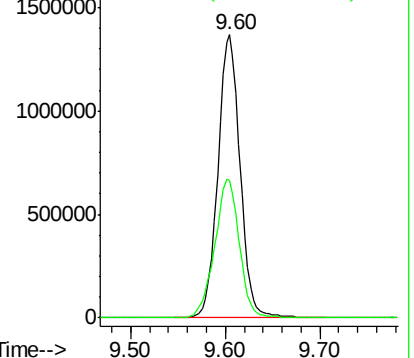
104 100

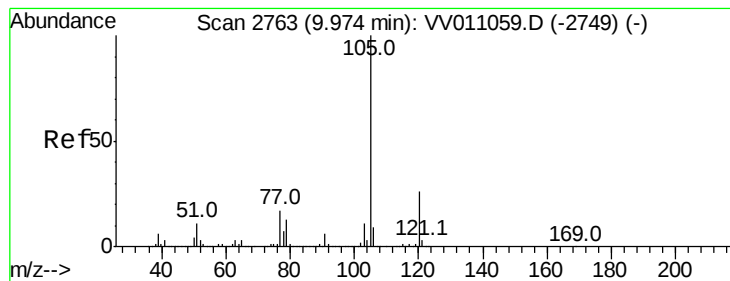
78 48.7 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 103.385 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD10070

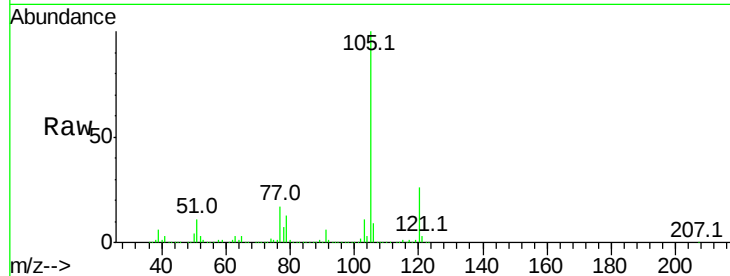
Tgt Ion:105 Resp: 3358251

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.4

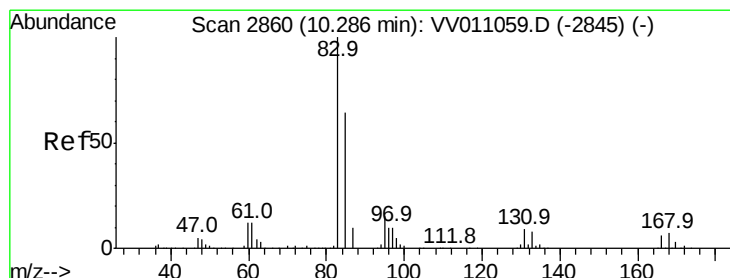
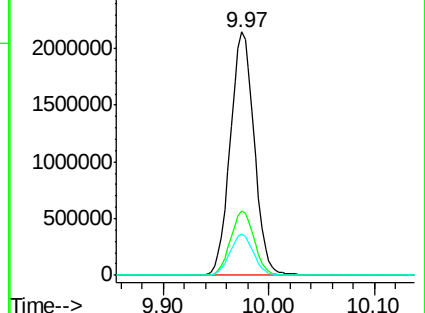
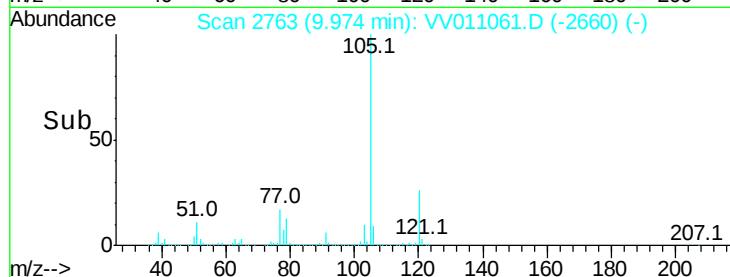
77 16.8 13.3 19.9



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: 99.603 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

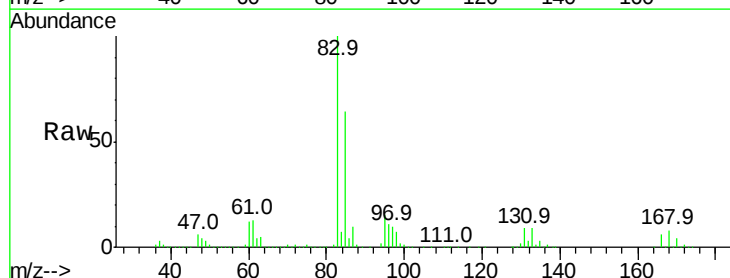
Tgt Ion: 83 Resp: 804289

Ion Ratio Lower Upper

83 100

85 63.9 44.7 82.9

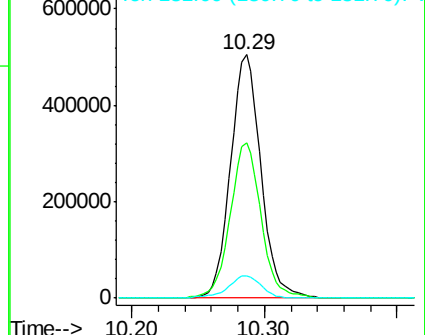
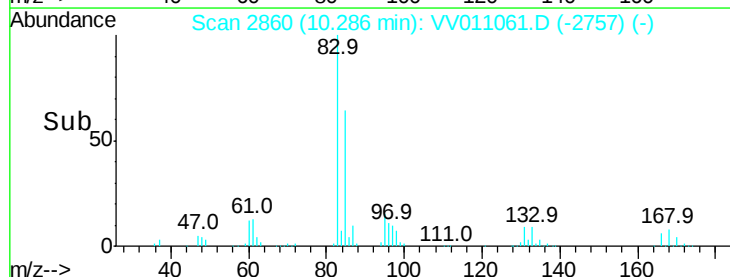
131 9.2 7.1 10.7

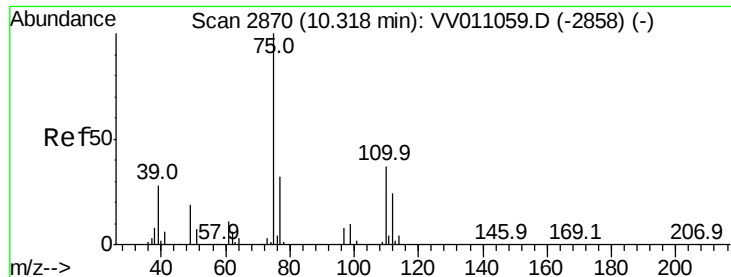


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 102.234 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

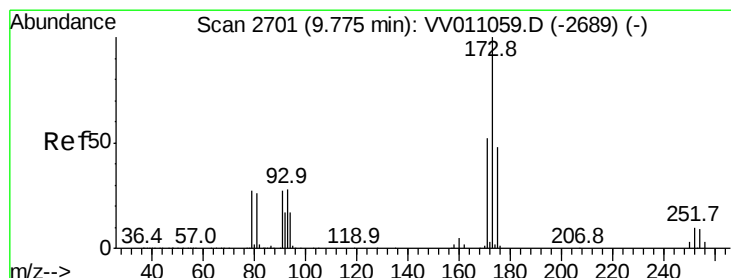
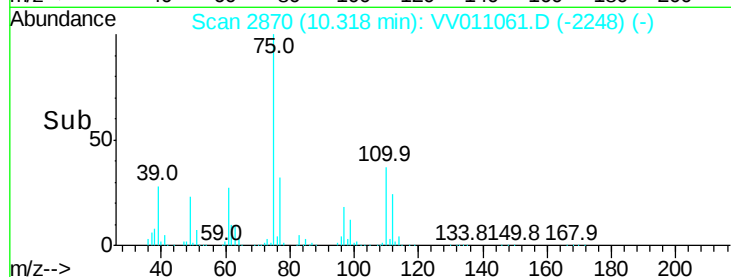
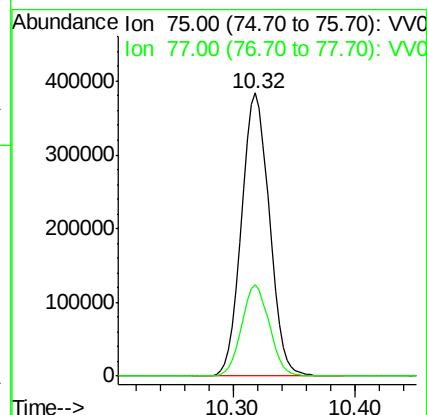
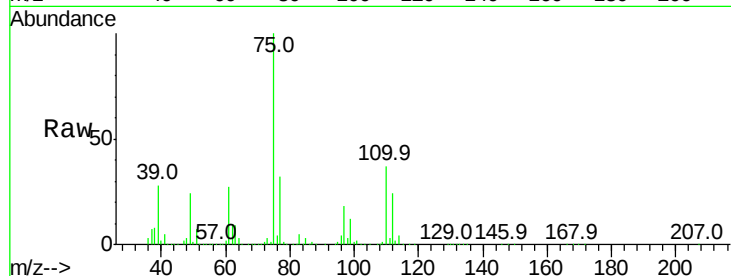
VSTD10070

Tgt Ion: 75 Resp: 606432

Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.0



#62

Bromoform

Concen: 101.212 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

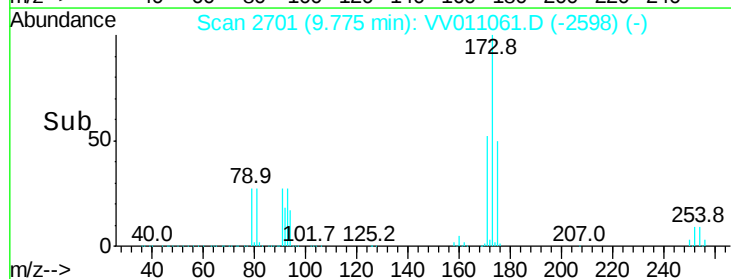
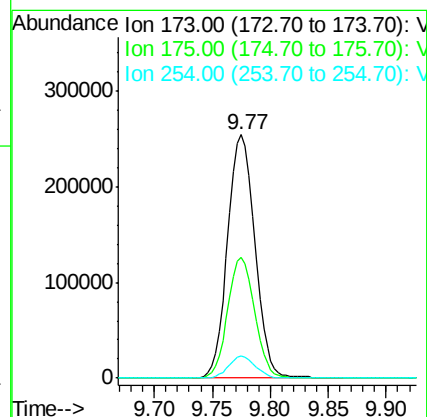
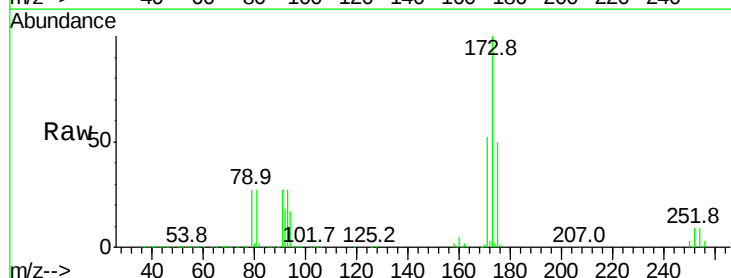
Tgt Ion: 173 Resp: 416014

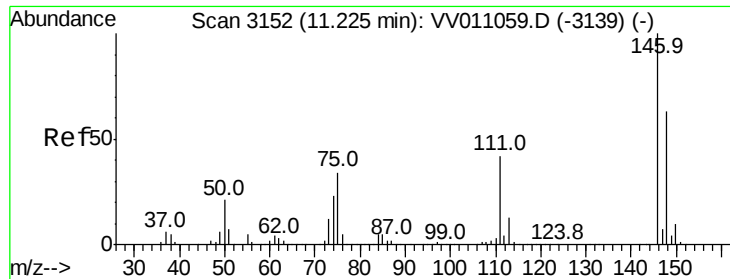
Ion Ratio Lower Upper

173 100

175 48.9 39.0 58.4

254 8.7 7.0 10.4

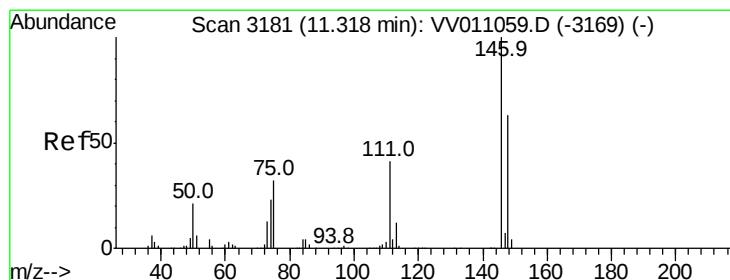
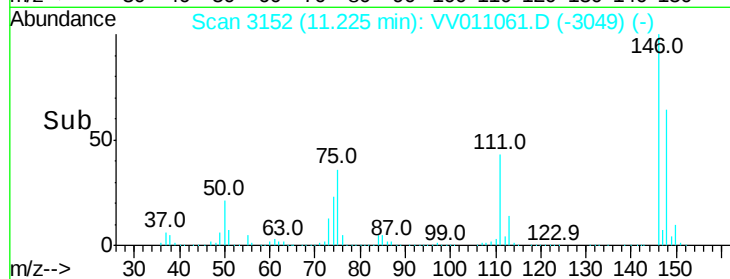
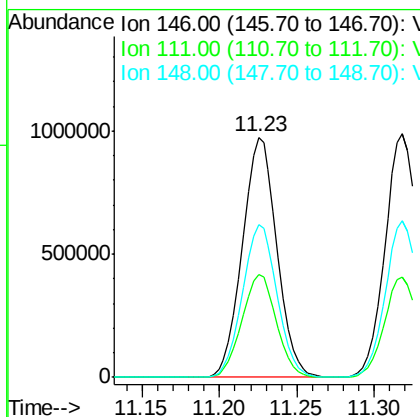
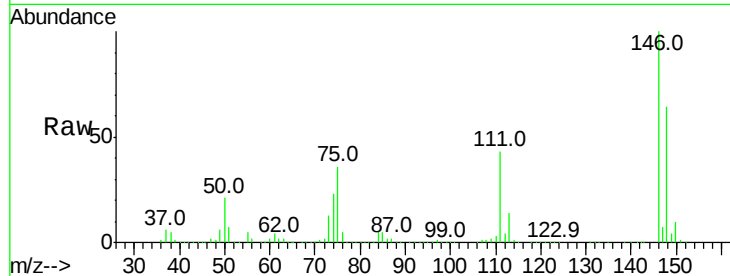




#63
 1,3-Dichlorobenzene
 Concen: 95.794 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV011061.D
 Acq: 28 May 2019 12:24

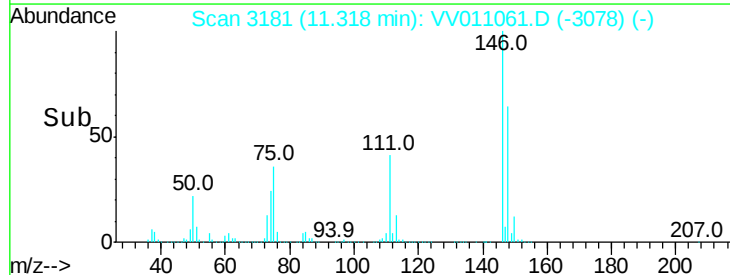
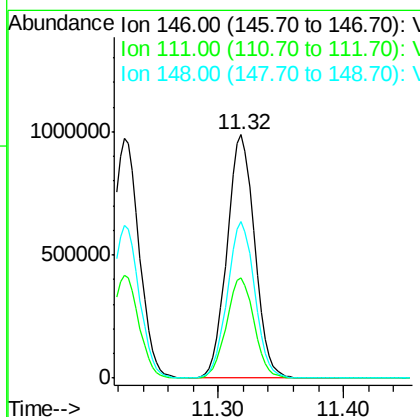
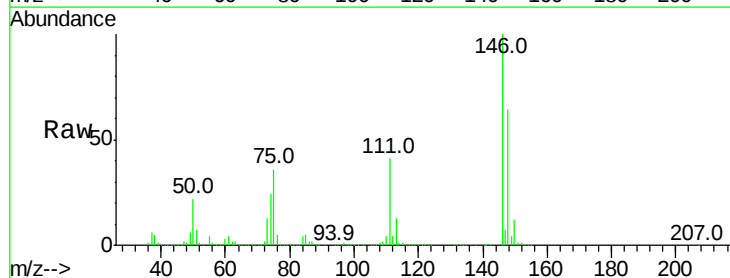
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD10070

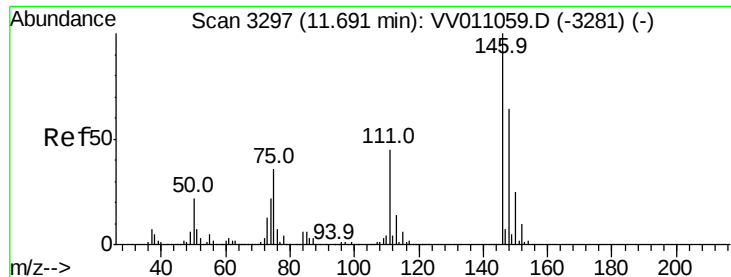
Tgt Ion:146 Resp: 1512837
 Ion Ratio Lower Upper
 146 100
 111 42.9 29.6 55.0
 148 63.6 44.1 81.9



#64
 1,4-Dichlorobenzene
 Concen: 92.764 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011061.D
 Acq: 28 May 2019 12:24

Tgt Ion:146 Resp: 1508762
 Ion Ratio Lower Upper
 146 100
 111 41.3 28.8 53.4
 148 64.1 44.4 82.5





#65

1,2-Dichlorobenzene

Concen: 92.245 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampled :

VSTD10070

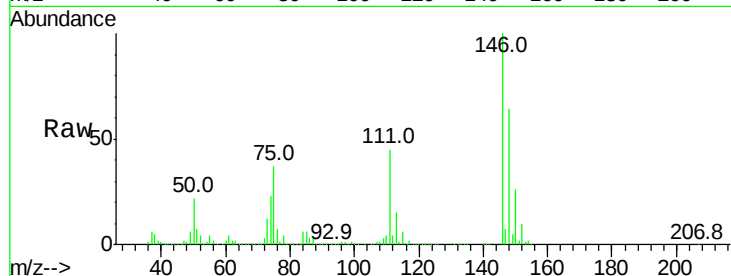
Tgt Ion:146 Resp: 1412539

Ion Ratio Lower Upper

146 100

111 44.6 35.9 53.9

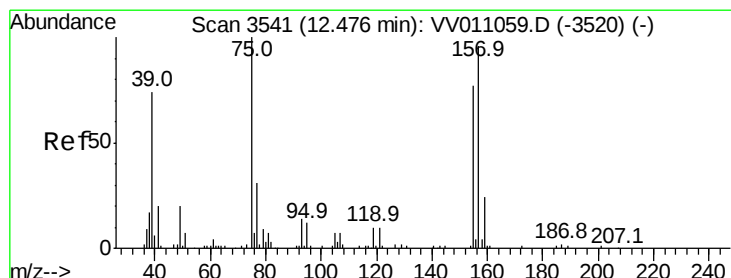
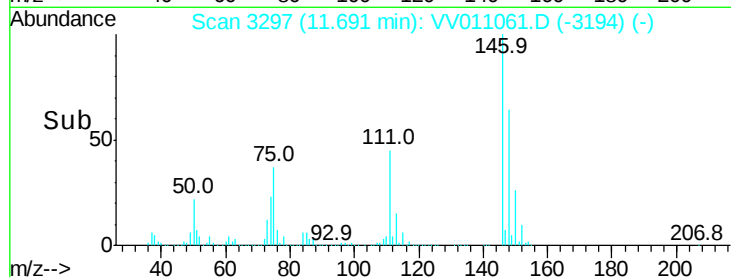
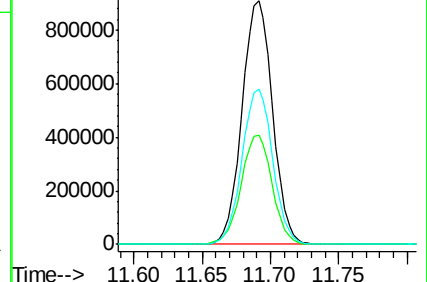
148 63.8 51.4 77.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 126.202 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

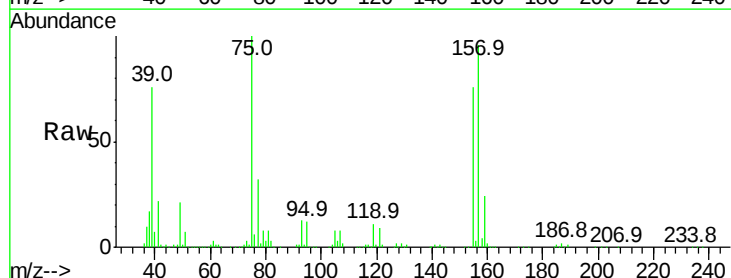
Tgt Ion: 75 Resp: 153520

Ion Ratio Lower Upper

75 100

157 95.9 76.7 115.1

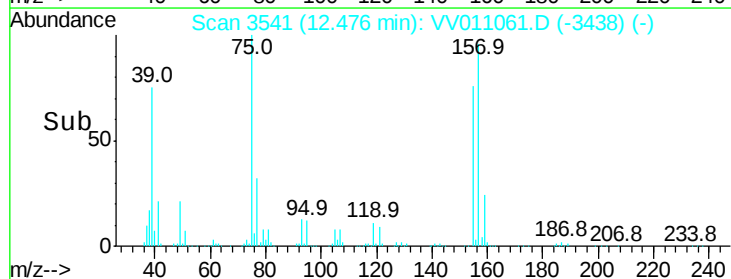
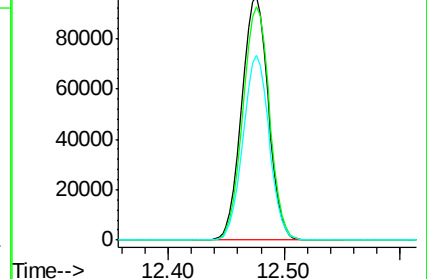
155 76.0 61.8 92.8

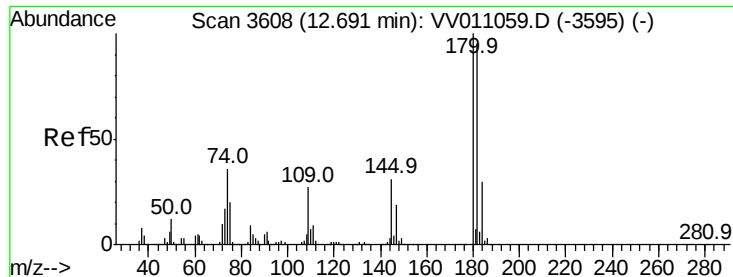


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

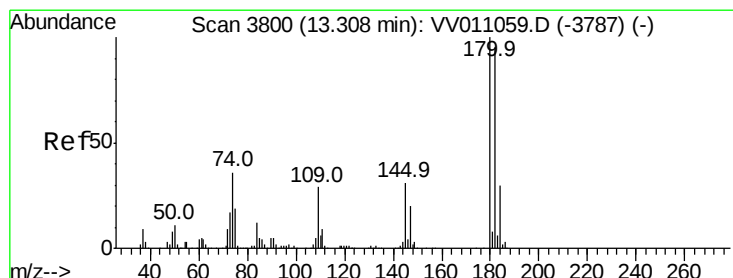
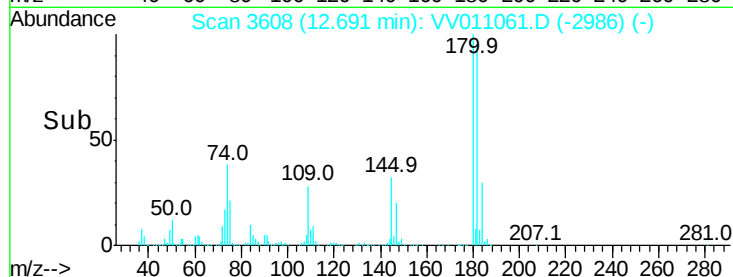
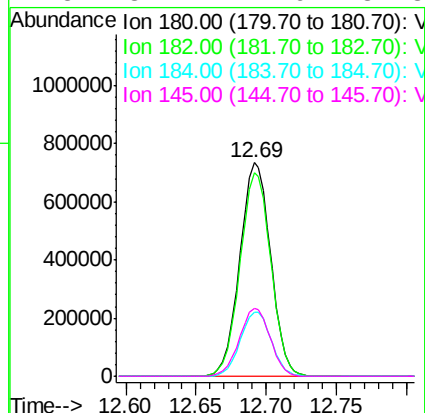
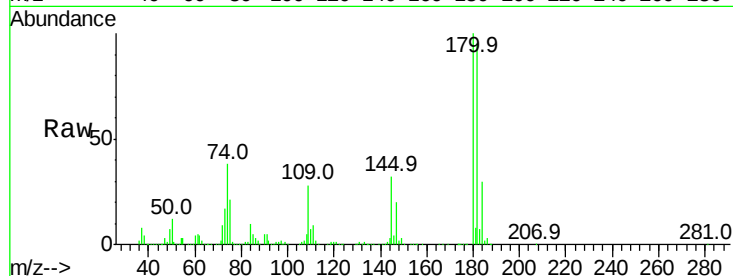




#67
 1,3,5-Trichlorobenzene
 Concen: 97.335 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011061.D
 Acq: 28 May 2019 12:24

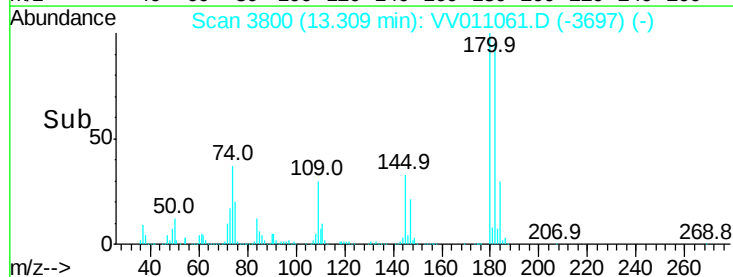
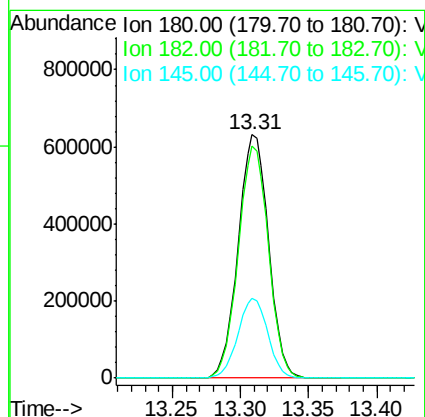
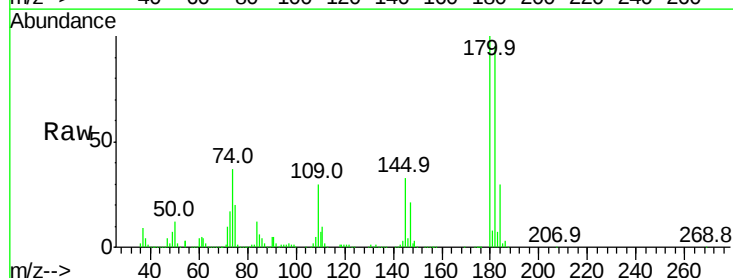
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD10070

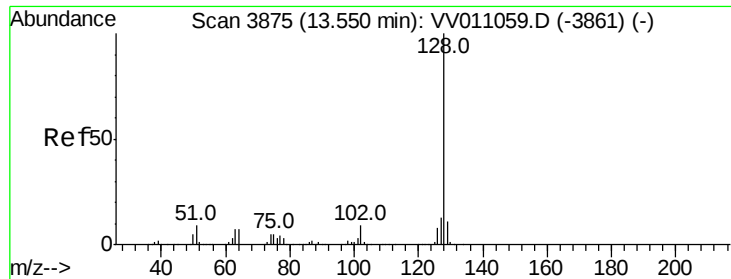
Tgt Ion:180 Resp: 1127615
 Ion Ratio Lower Upper
 180 100
 182 95.2 76.6 114.8
 184 30.2 24.7 37.1
 145 31.7 24.9 37.3



#68
 1,2,4-trichlorobenzene
 Concen: 106.354 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV011061.D
 Acq: 28 May 2019 12:24

Tgt Ion:180 Resp: 973821
 Ion Ratio Lower Upper
 180 100
 182 94.8 76.8 115.2
 145 32.5 25.4 38.0





#69

Naphthalene

Concen: 120.425 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD10070

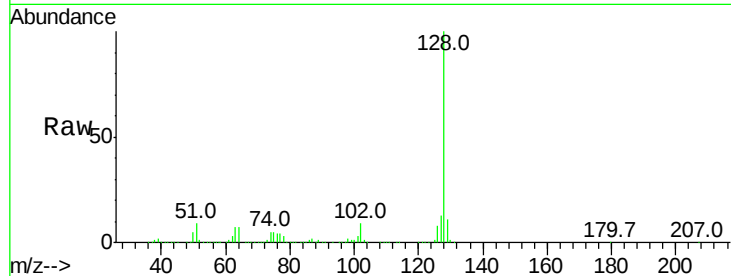
Tgt Ion:128 Resp: 2210414

Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

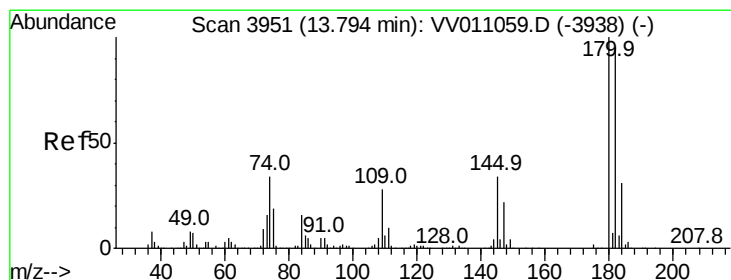
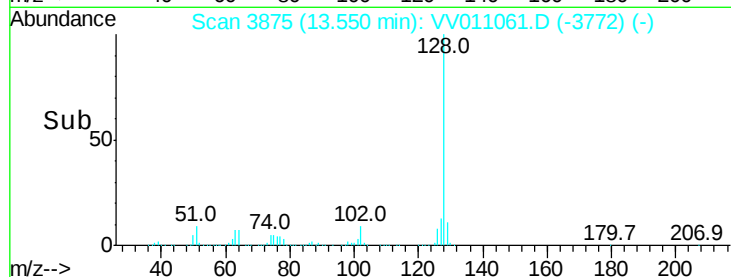
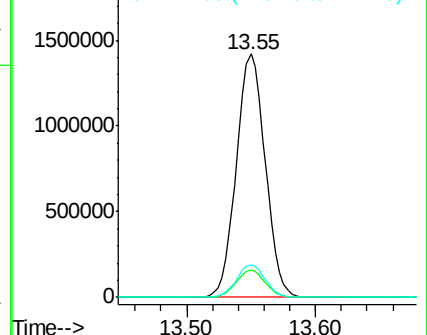
127 13.3 10.2 15.4



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: 100.986 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV011061.D

Acq: 28 May 2019 12:24

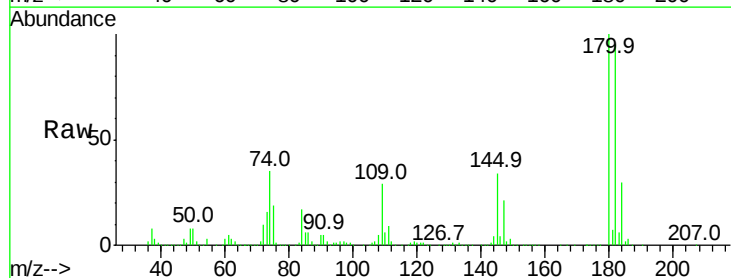
Tgt Ion:180 Resp: 902737

Ion Ratio Lower Upper

180 100

182 95.0 75.7 113.5

145 34.6 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

