

Data File : VV009632.D
Acq On : 13 Mar 2019 11:00
Operator : SY/MD
Sample : VSTD00579
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00579

Quant Time: Mar 13 12:02:09 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM031319S.M
Quant Title : VOC Analysis
QLast Update : Wed Mar 13 11:58:24 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	161832	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	148896	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	68104	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	11130	5.71	ug/L	0.00
7) Chloroethane-d5	1.58	69	17476	6.20	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.13	63	29163	5.75	ug/L	0.00
20) 2-Butanone-d5	3.96	46	2114	3.18	ug/L	0.03
24) Chloroform-d	4.40	84	21090	5.47	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.09	65	11234	5.12	ug/L	0.00
29) Benzene-d6	5.10	84	40055	5.43	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	11920	5.48	ug/L	0.00
37) Toluene-d8	7.36	98	37743	5.25	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.67	79	4860	4.61	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	4198	8.27	ug/L	0.01
48) 1,1,2,2-Tetrachloroethane-	10.26	84	10951	4.72	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	13435	5.40	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	13390	7.186 ug/L	98
3) Chloromethane	1.25	50	11606	5.844 ug/L	99
5) Vinyl chloride	1.32	62	13008	5.941 ug/L	94
6) Bromomethane	1.53	94	17116	6.280 ug/L	98
8) Chloroethane	1.59	64	13518	5.556 ug/L	100
9) Trichlorofluoromethane	1.76	101	26712	5.948 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	14056	5.589 ug/L	95
12) 1,1-Dichloroethene	2.14	96	12721	5.912 ug/L	94
13) Acetone	2.21	43	5084	7.533 ug/L	94
14) Carbon disulfide	2.32	76	30471	5.587 ug/L	99
15) Methyl Acetate	2.47	43	4517	4.133 ug/L	92
16) Methylene chloride	2.53	84	12781	6.018 ug/L	97
17) Methyl tert-butyl Ether	2.81	73	24188	5.020 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	10445	5.405 ug/L	97
19) 1,1-Dichloroethane	3.23	63	18194	5.343 ug/L	94
21) 2-Butanone	4.05	43	4772	5.602 ug/L	83
22) cis-1,2-Dichloroethene	3.96	96	11805	5.411 ug/L	98
23) Bromochloromethane	4.30	128	5326	5.294 ug/L	92
25) Chloroform	4.43	83	20765	5.464 ug/L	99
27) 1,2-Dichloroethane	5.18	62	14751	5.589 ug/L	98
30) Cyclohexane	4.73	56	17407	5.509 ug/L	100
31) 1,1,1-Trichloroethane	4.66	97	17802	5.348 ug/L	96
32) Carbon tetrachloride	4.88	117	15097	5.365 ug/L	96
34) Benzene	5.15	78	43824	5.696 ug/L	100
35) Trichloroethene	5.96	95	12245	5.538 ug/L	97
36) Methylcyclohexane	6.18	83	21483	5.964 ug/L	97
40) 1,2-Dichloropropane	6.22	63	10883	5.486 ug/L	# 93
41) Bromodichloromethane	6.55	83	13582	5.072 ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	14303	4.644 ug/L	93
43) 4-Methyl-2-pentanone	7.28	43	14473	9.255 ug/L	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	47197	5.427	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	12517	4.654	ug/L	96
46) 1,1,2-Trichloroethane	7.88	97	8486	5.149	ug/L	96
47) Tetrachloroethene	8.02	164	9743	5.810	ug/L	93
49) 2-Hexanone	8.19	43	9944	8.409	ug/L	98
50) Dibromochloromethane	8.29	129	8807	4.414	ug/L	93
51) 1,2-Dibromoethane	8.40	107	8449	4.962	ug/L	97
52) Chlorobenzene	8.93	112	30474	5.287	ug/L	99
53) Ethylbenzene	9.06	91	50340	5.058	ug/L	98
54) m,p-Xylene	9.18	106	19234	5.107	ug/L	98
55) o-xylene	9.59	106	18531	5.102	ug/L	99
56) Styrene	9.61	104	28115	4.705	ug/L	99
57) Isopropylbenzene	9.98	105	49600	4.951	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	10944	4.703	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	8273	4.932	ug/L	100
62) Bromoform	9.78	173	4871	4.407	ug/L #	96
63) 1,3-Dichlorobenzene	11.23	146	22841	5.369	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	23142	5.324	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	20538	5.177	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.48	75	1420	3.574	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	15526	5.088	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	9910	4.056	ug/L	99
69) Naphthalene	13.55	128	13535	2.630	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	9178	4.084	ug/L	98

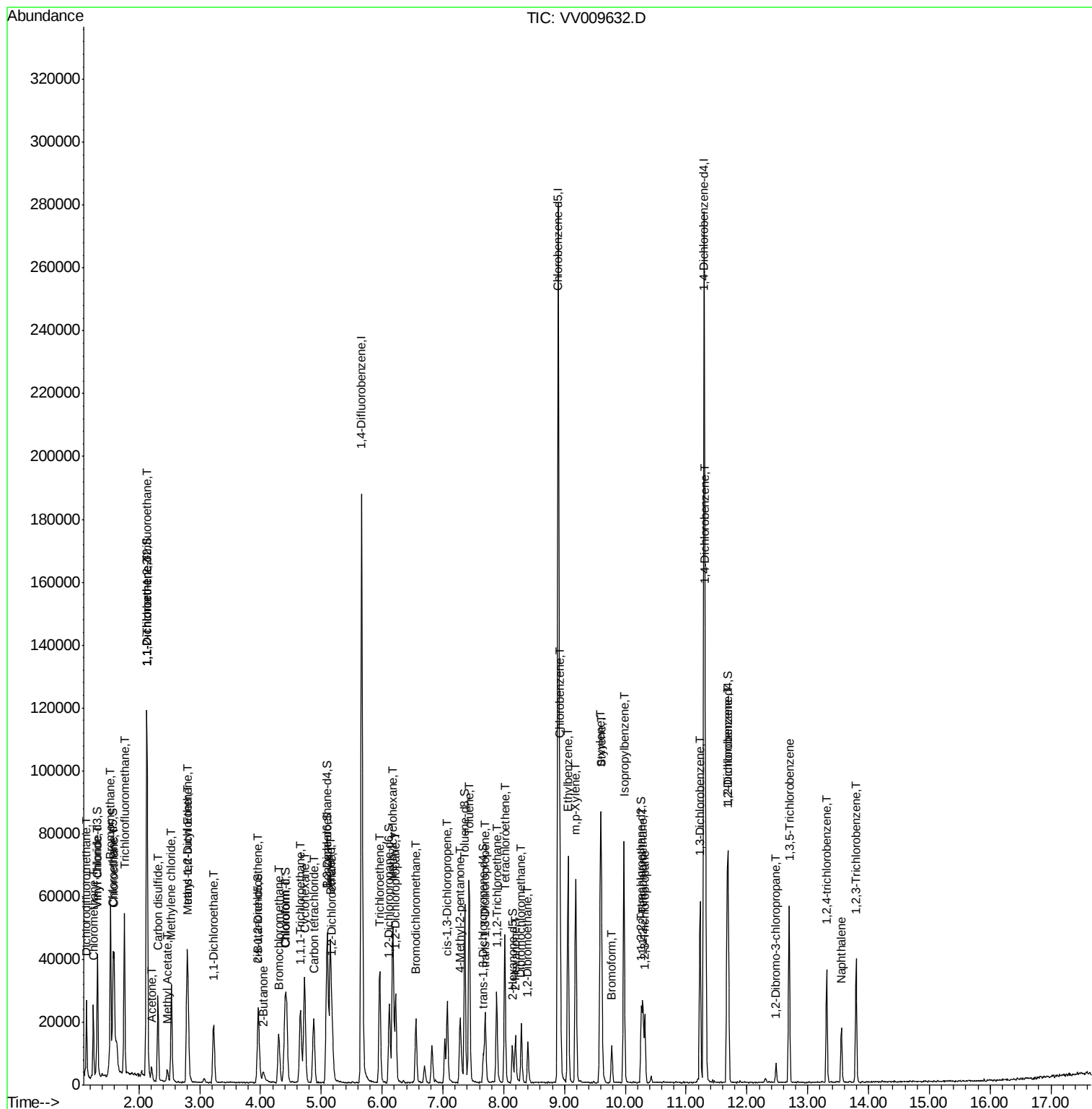
(#) = qualifier out of range (m) = manual integration (+) = signals summed

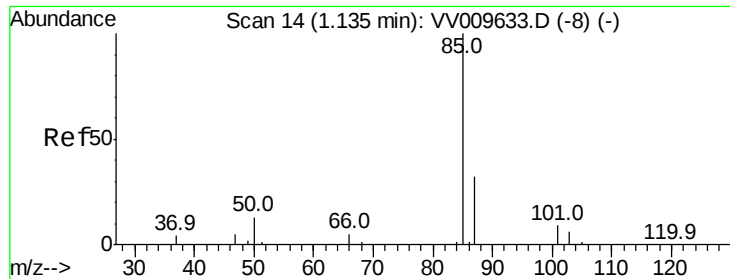
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#2

Dichlorodifluoromethane

Concen: 7.186 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

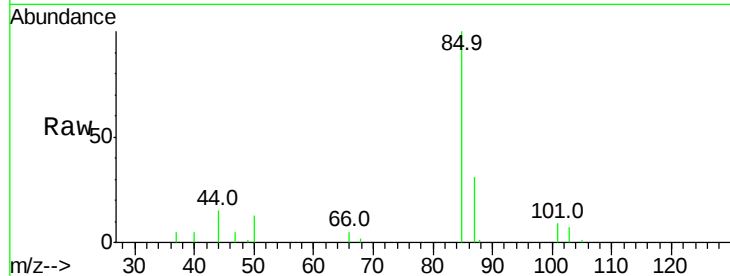
VSTD00579

Tgt Ion: 85 Resp: 13390

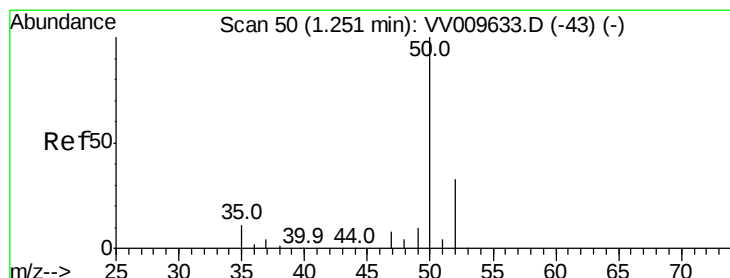
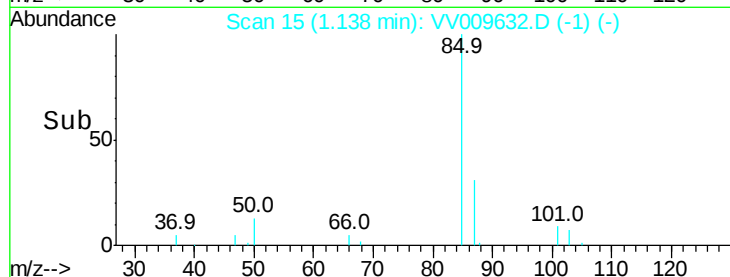
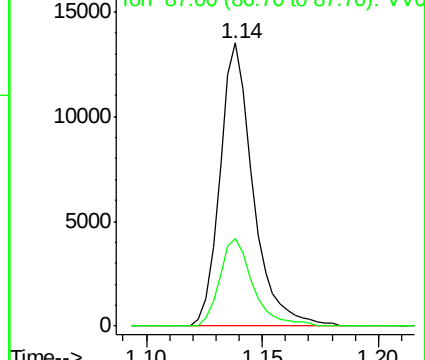
Ion Ratio Lower Upper

85 100

87 31.1 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VV009632.D (-1) (-)



#3

Chloromethane

Concen: 5.844 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009632.D

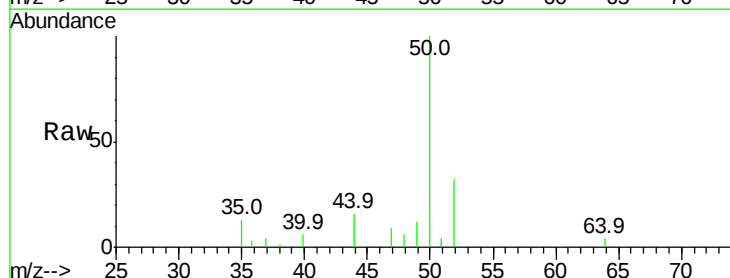
Acq: 13 Mar 2019 11:00

Tgt Ion: 50 Resp: 11606

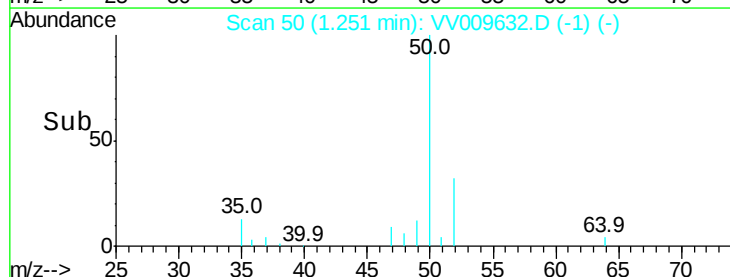
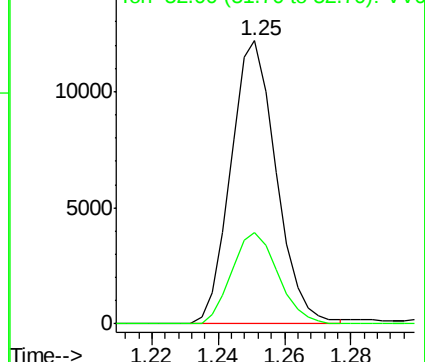
Ion Ratio Lower Upper

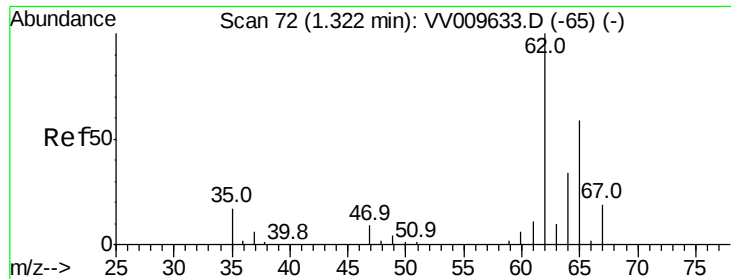
50 100

52 32.3 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV009632.D (-1) (-)





#5

Vinyl chloride

Concen: 5.941 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

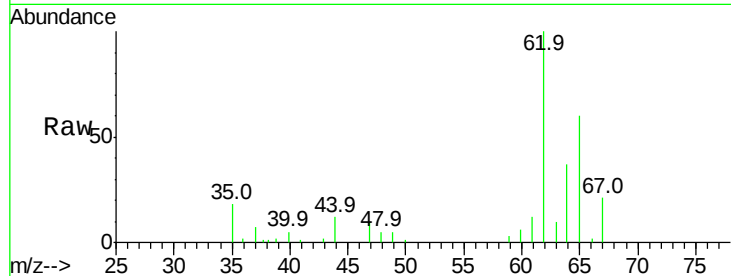
VSTD00579

Tgt Ion: 62 Resp: 13008

Ion Ratio Lower Upper

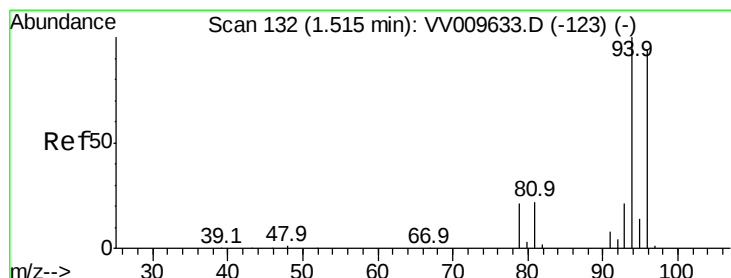
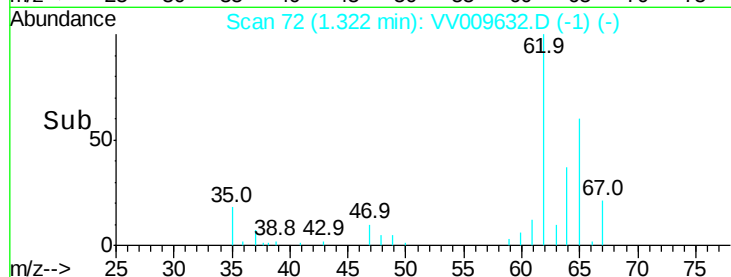
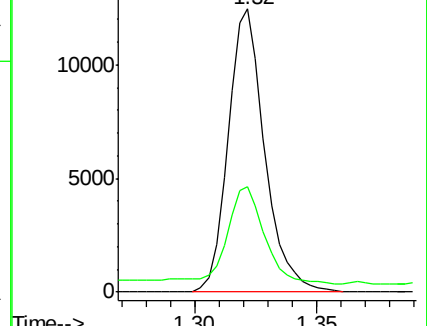
62 100

64 37.1 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 6.280 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.02 min

Lab File: VV009632.D

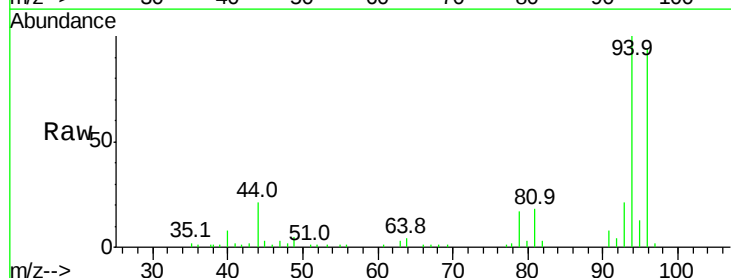
Acq: 13 Mar 2019 11:00

Tgt Ion: 94 Resp: 17116

Ion Ratio Lower Upper

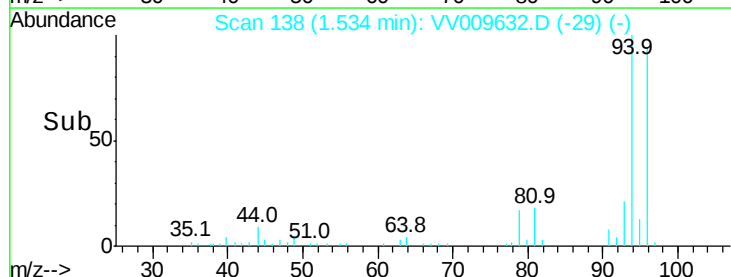
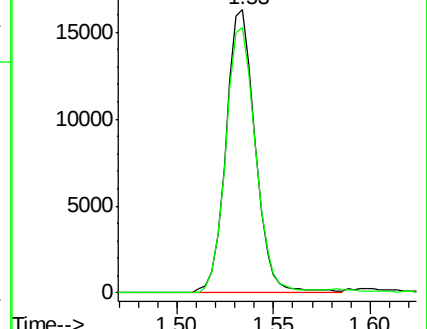
94 100

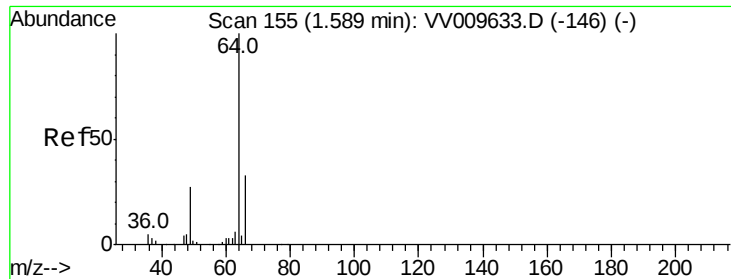
96 95.9 9.4 178.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 5.556 ug/L

RT: 1.59 min Scan# 156

Delta R.T. 0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

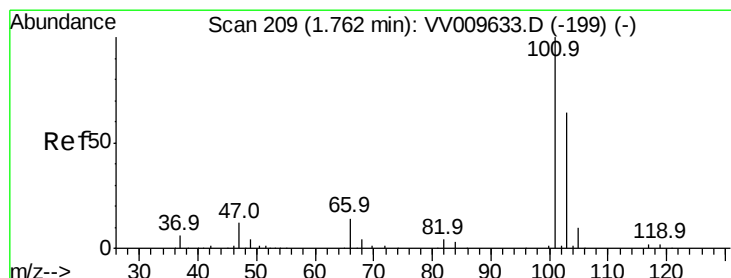
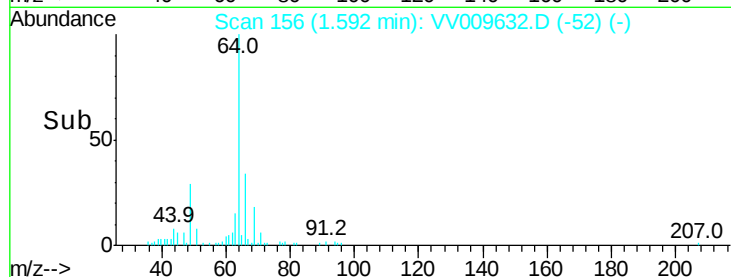
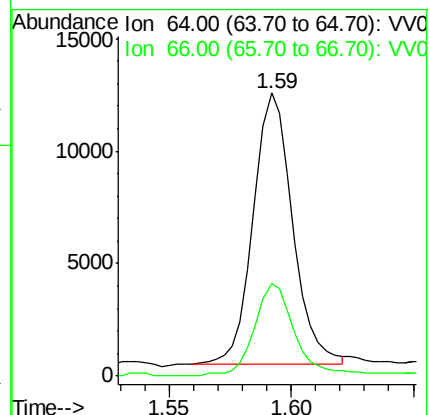
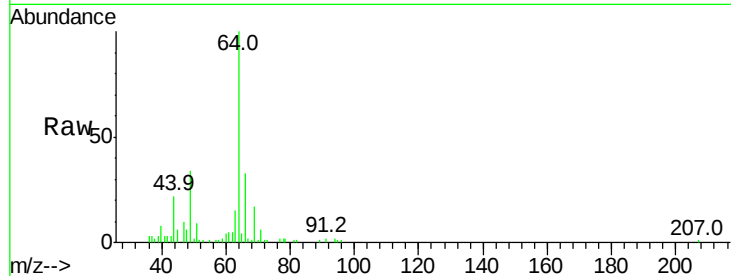
VSTD00579

Tgt Ion: 64 Resp: 13518

Ion Ratio Lower Upper

64 100

66 32.8 23.0 42.8



#9

Trichlorofluoromethane

Concen: 5.948 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV009632.D

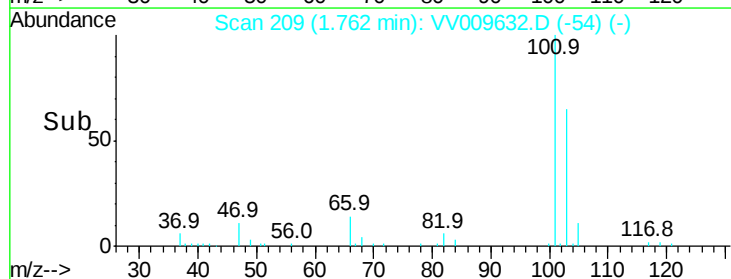
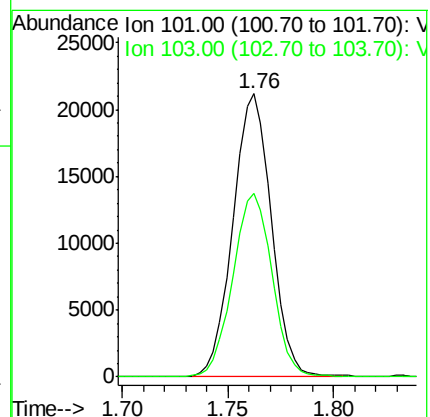
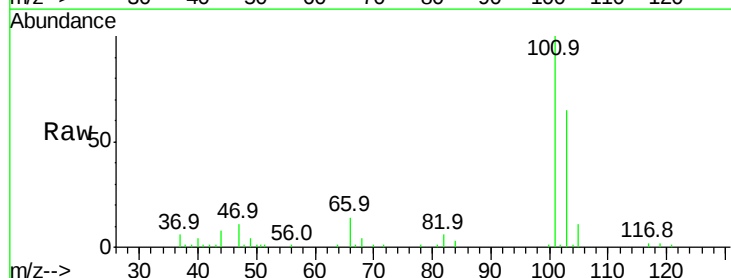
Acq: 13 Mar 2019 11:00

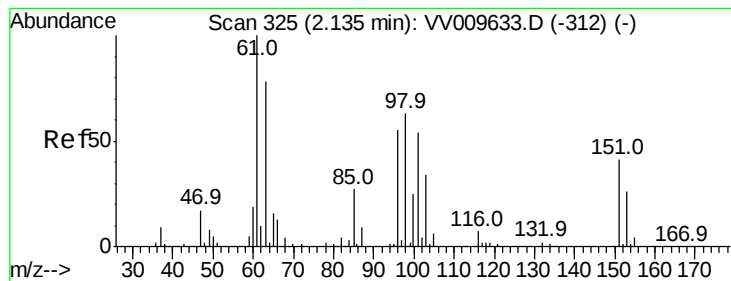
Tgt Ion: 101 Resp: 26712

Ion Ratio Lower Upper

101 100

103 66.2 45.4 84.2





#11

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

Concen: 5.589 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampled :

VSTD00579

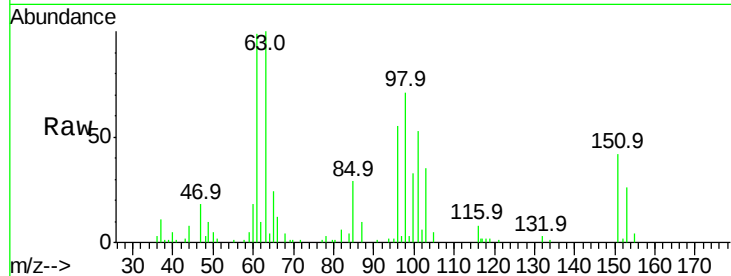
Tgt Ion: 101 Resp: 14056

Ion Ratio Lower Upper

101 100

85 51.6 38.7 58.1

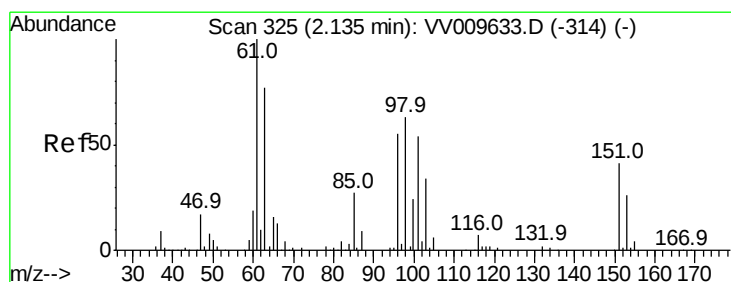
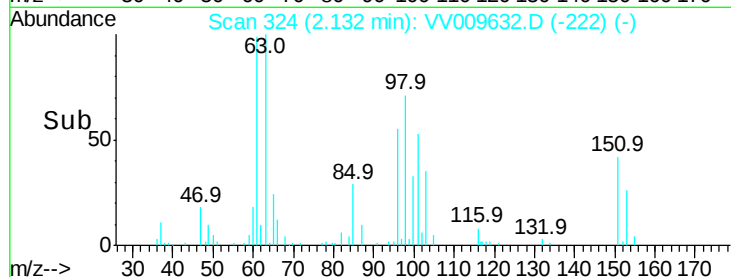
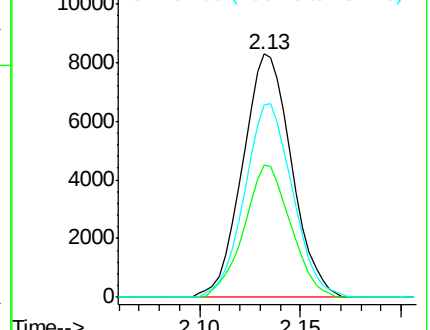
151 78.0 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.912 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

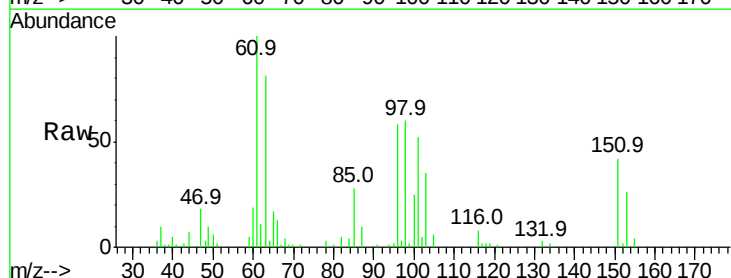
Tgt Ion: 96 Resp: 12721

Ion Ratio Lower Upper

96 100

61 171.7 128.4 238.5

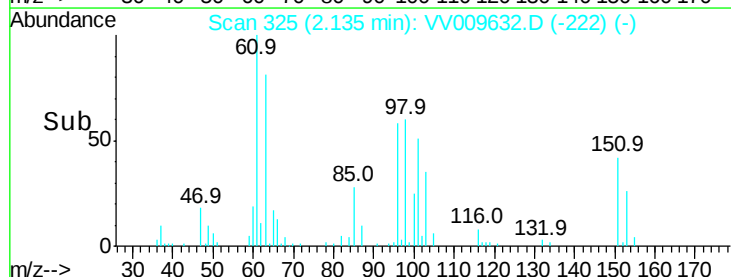
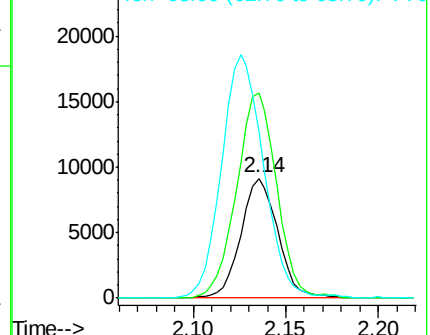
63 139.6 100.7 186.9

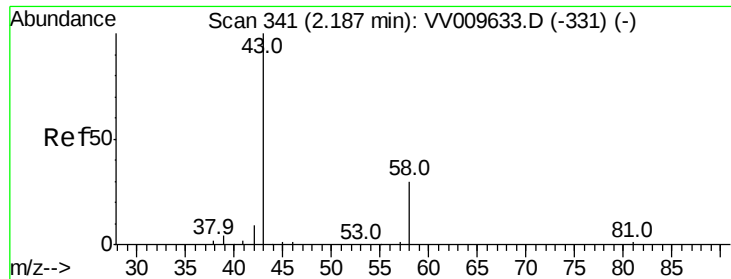


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 7.533 ug/L

RT: 2.21 min Scan# 348

Delta R.T. 0.02 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

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ClientSampleId :

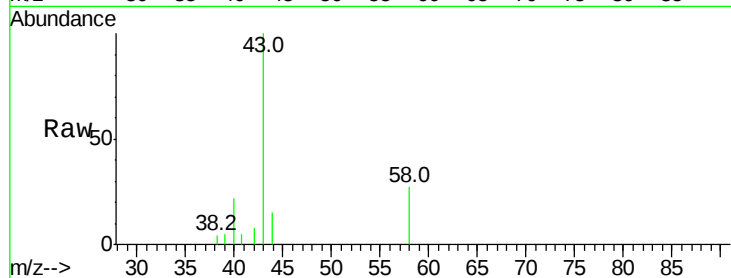
VSTD00579

Tgt Ion: 43 Resp: 5084

Ion Ratio Lower Upper

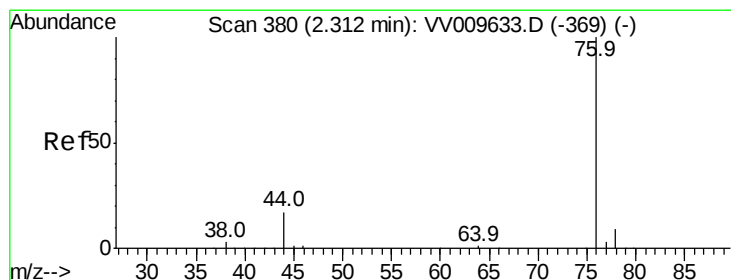
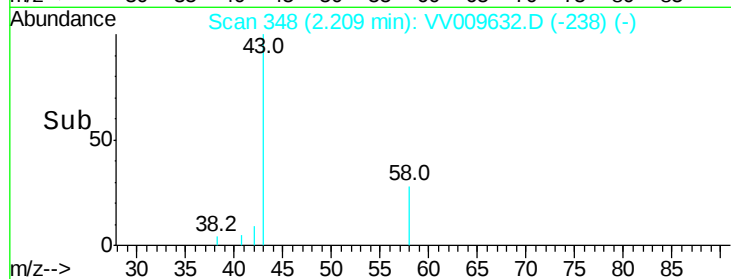
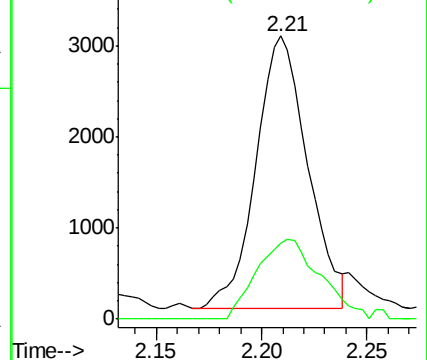
43 100

58 35.8 0.0 64.8



Abundance Ion 43.00 (42.70 to 43.70): VV009632.D (-238) (-)

Ion 58.00 (57.70 to 58.70): VV009632.D (-238) (-)



#14

Carbon disulfide

Concen: 5.587 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV009632.D

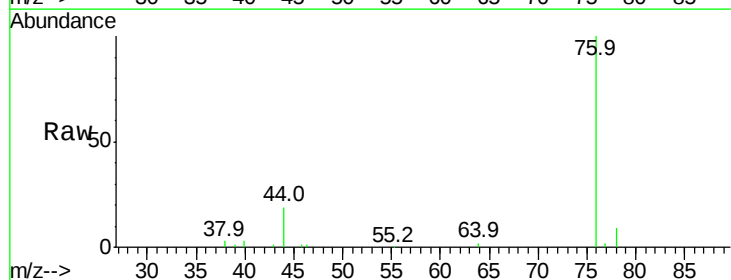
Acq: 13 Mar 2019 11:00

Tgt Ion: 76 Resp: 30471

Ion Ratio Lower Upper

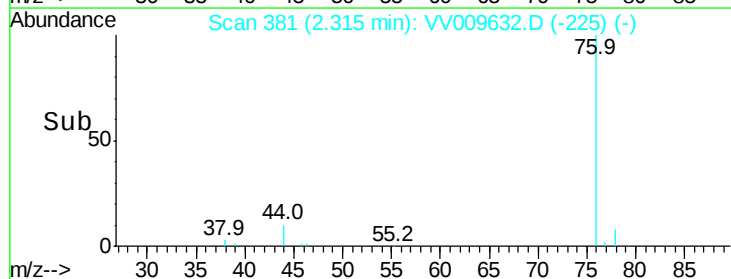
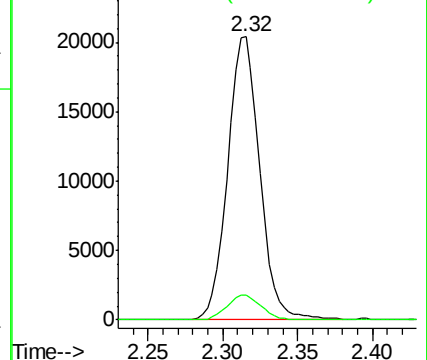
76 100

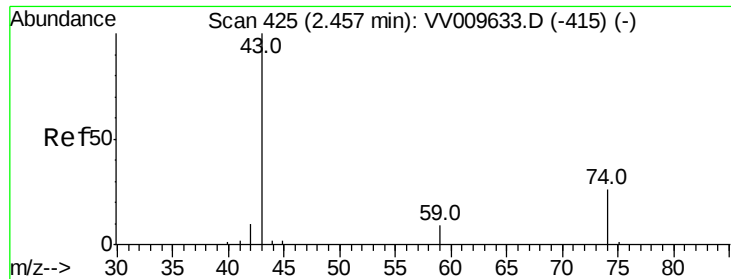
78 8.8 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV009632.D (-225) (-)

Ion 78.00 (77.70 to 78.70): VV009632.D (-225) (-)

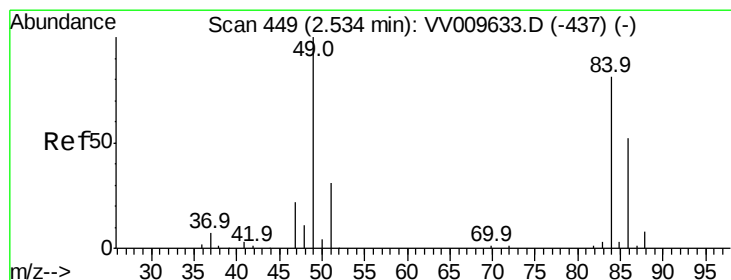
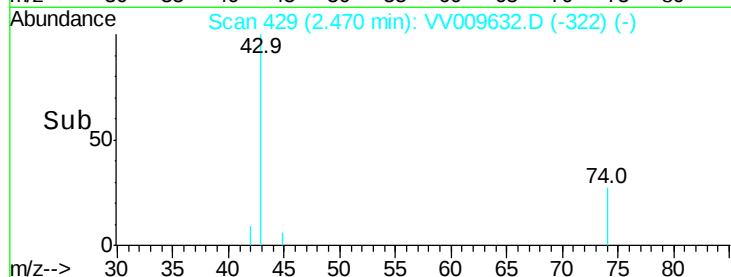
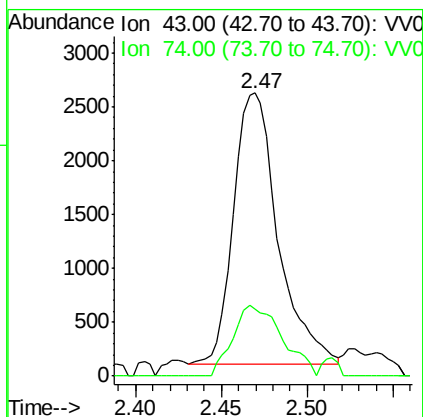
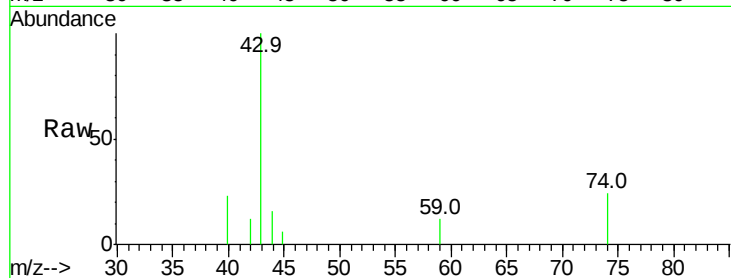




#15
Methyl Acetate
Concen: 4.133 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.01 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

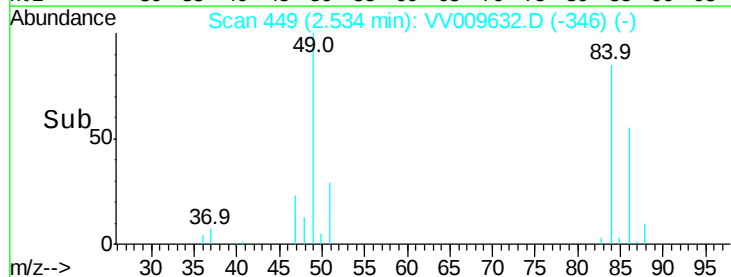
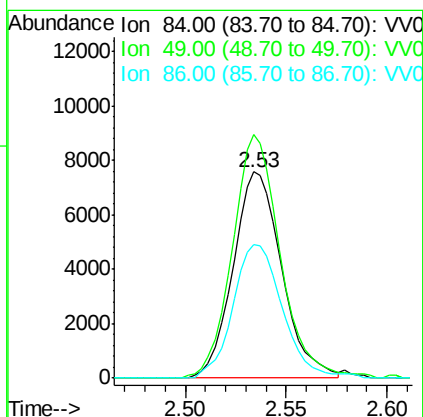
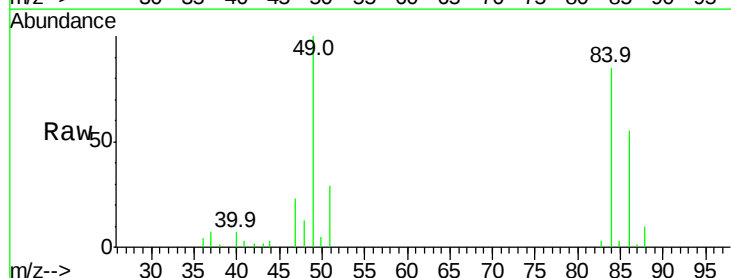
Instrument :
MSVOA_V
ClientSampleId :
VSTD00579

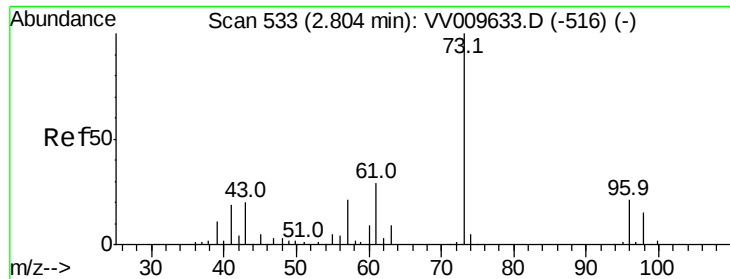
Tgt Ion: 43 Resp: 4517
Ion Ratio Lower Upper
43 100
74 28.9 19.8 29.6



#16
Methylene chloride
Concen: 6.018 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

Tgt Ion: 84 Resp: 12781
Ion Ratio Lower Upper
84 100
49 118.0 86.1 159.9
86 64.8 45.2 84.0

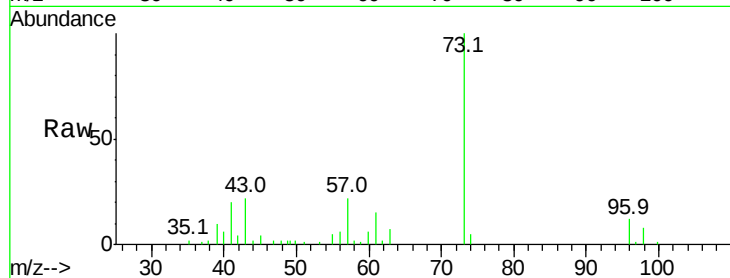




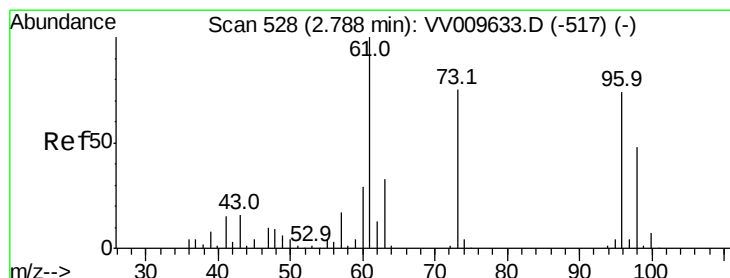
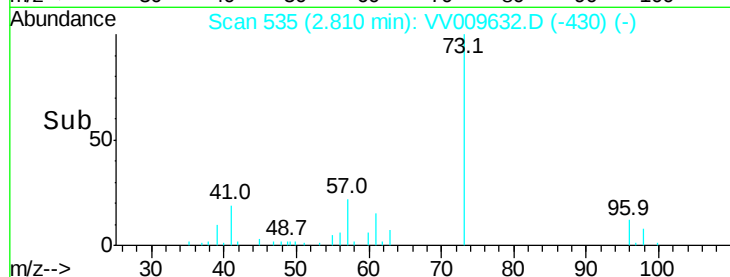
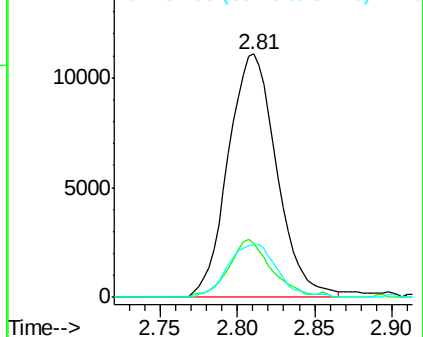
#17
Methyl tert-butyl Ether
Concen: 5.020 ug/L
RT: 2.81 min Scan# 535
Delta R.T. 0.01 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

Instrument :
MSVOA_V
ClientSampled :
VSTD00579

Tgt Ion: 73 Resp: 24188
Ion Ratio Lower Upper
73 100
43 20.9 16.3 24.5
57 21.8 16.7 25.1

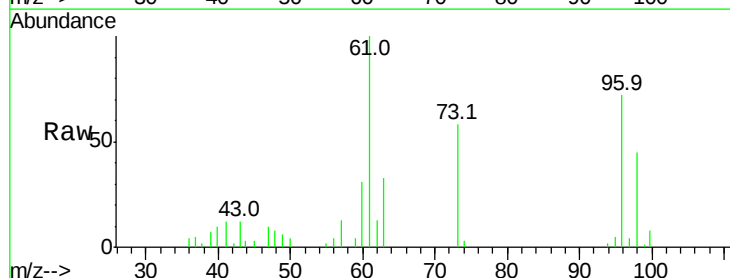


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

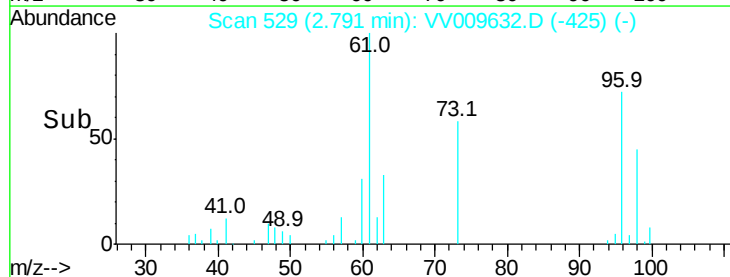
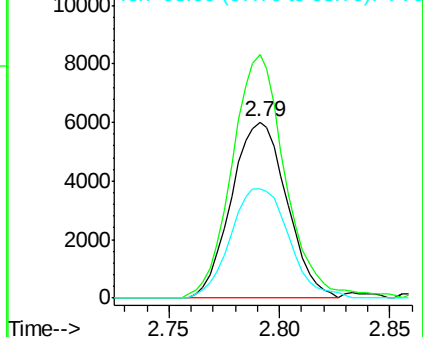


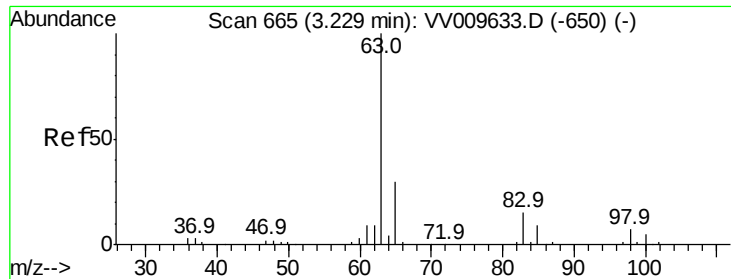
#18
trans-1,2-Dichloroethene
Concen: 5.405 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

Tgt Ion: 96 Resp: 10445
Ion Ratio Lower Upper
96 100
61 138.3 94.4 175.2
98 62.2 45.4 84.4



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

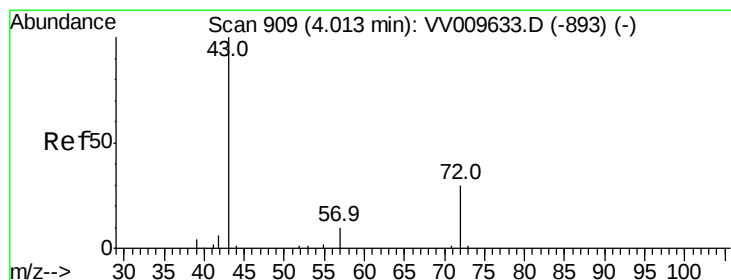
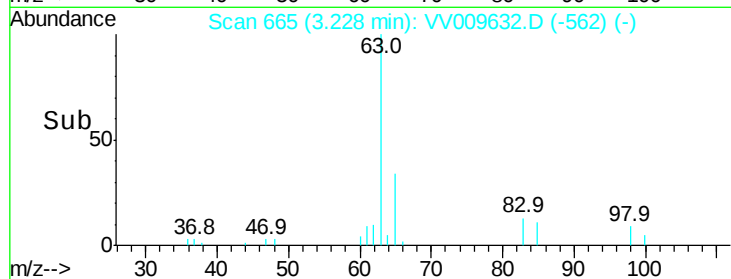
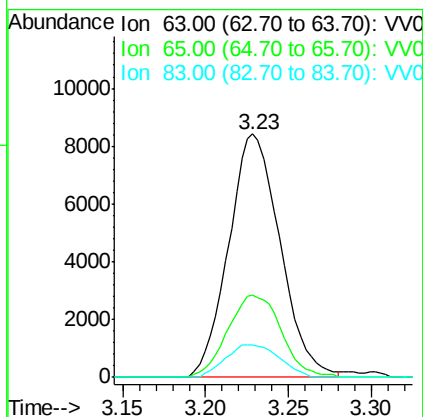
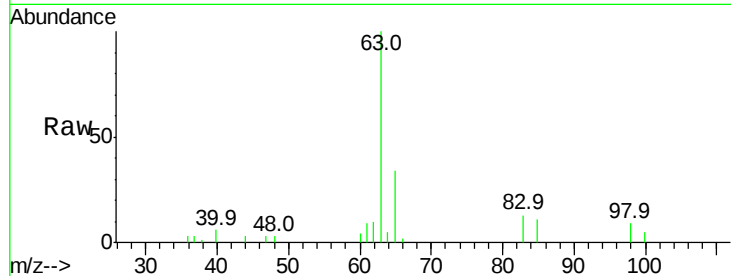




#19
 1,1-Dichloroethane
 Concen: 5.343 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

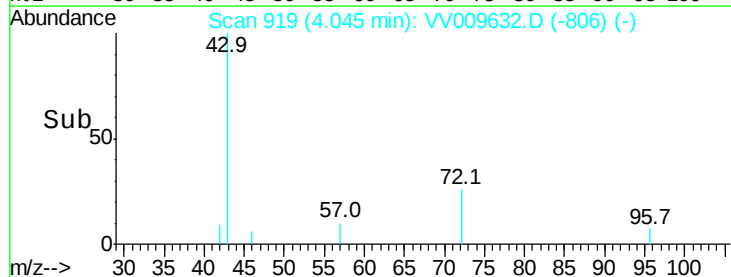
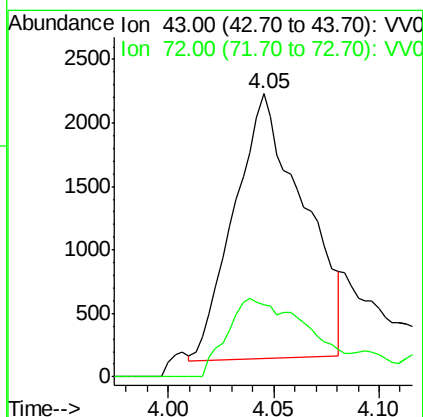
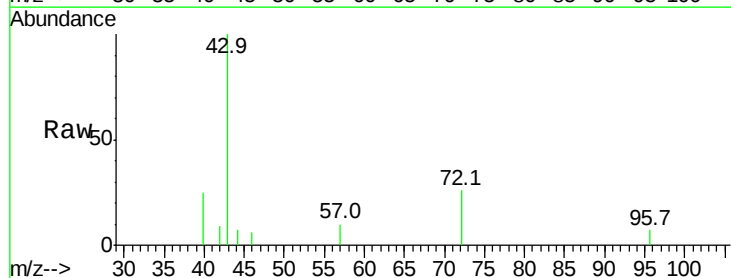
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00579

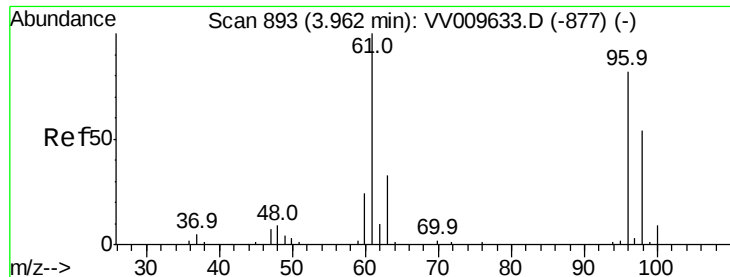
Tgt Ion: 63 Resp: 18194
 Ion Ratio Lower Upper
 63 100
 65 33.9 20.9 38.9
 83 13.3 10.4 19.4



#21
 2-Butanone
 Concen: 5.602 ug/L
 RT: 4.05 min Scan# 919
 Delta R.T. 0.03 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

Tgt Ion: 43 Resp: 4772
 Ion Ratio Lower Upper
 43 100
 72 20.0 14.5 43.5



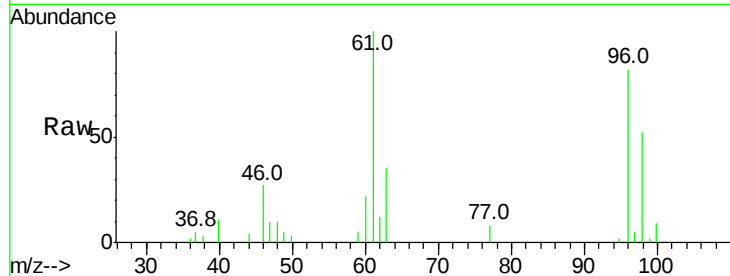


#22

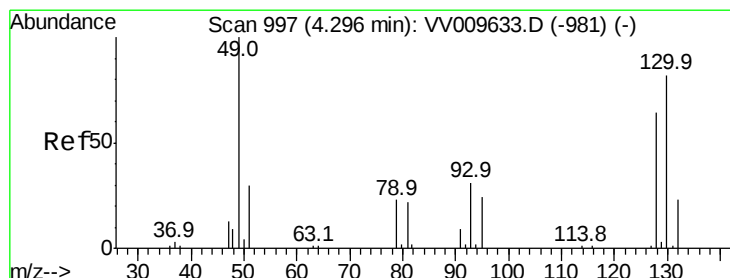
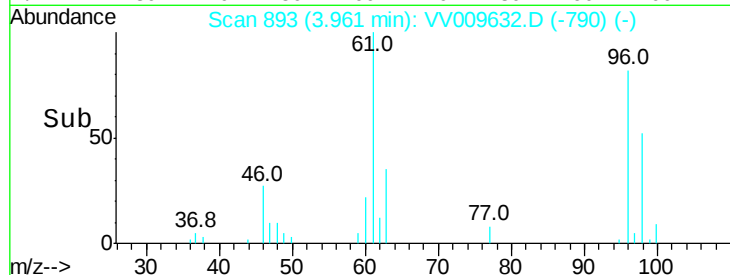
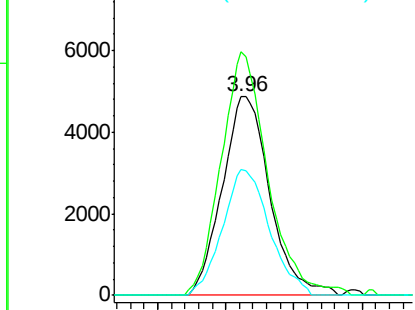
cis-1,2-Dichloroethene
Concen: 5.411 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

Instrument :
MSVOA_V
ClientSampleId :
VSTD00579

Tgt Ion: 96 Resp: 11805
Ion Ratio Lower Upper
96 100
61 122.5 86.2 160.0
98 63.5 46.5 86.3



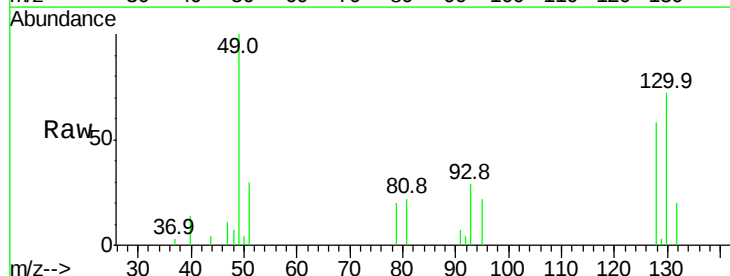
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



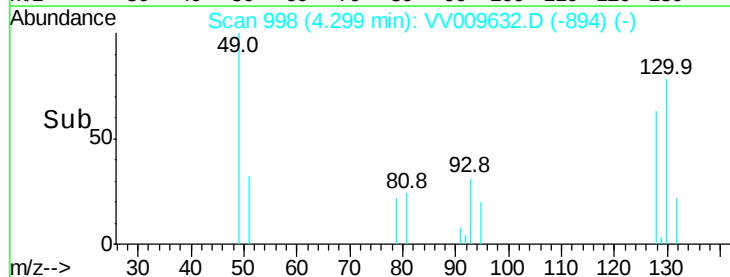
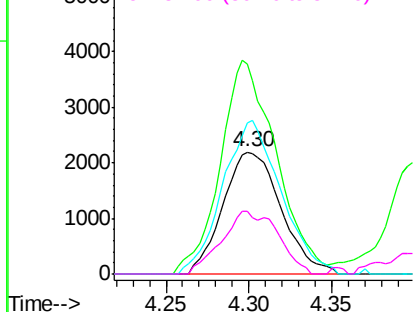
#23

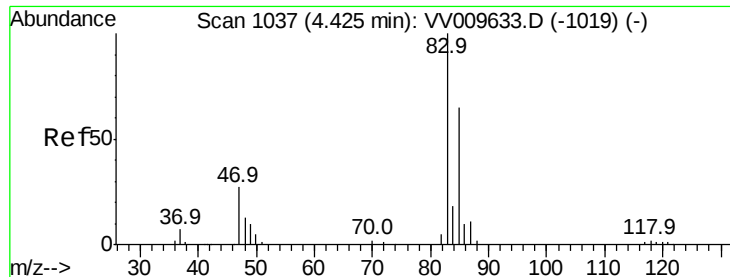
Bromochloromethane
Concen: 5.294 ug/L
RT: 4.30 min Scan# 998
Delta R.T. 0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

Tgt Ion: 128 Resp: 5326
Ion Ratio Lower Upper
128 100
49 173.1 110.0 204.2
130 123.9 90.4 168.0
51 51.2 38.1 57.1



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

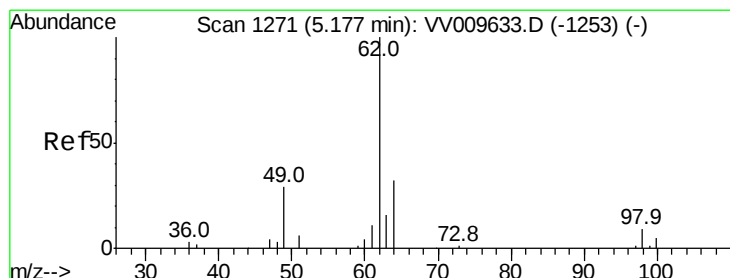
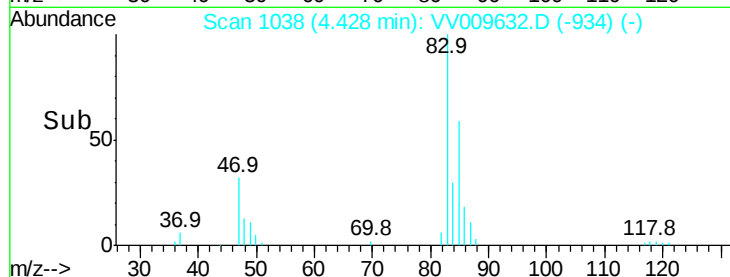
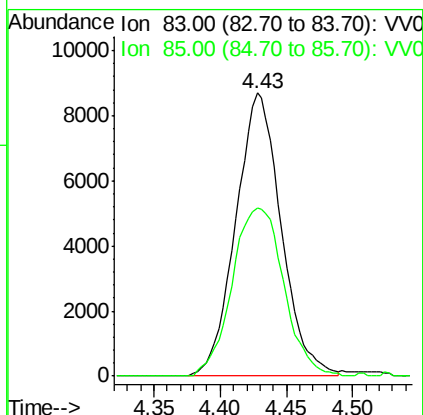
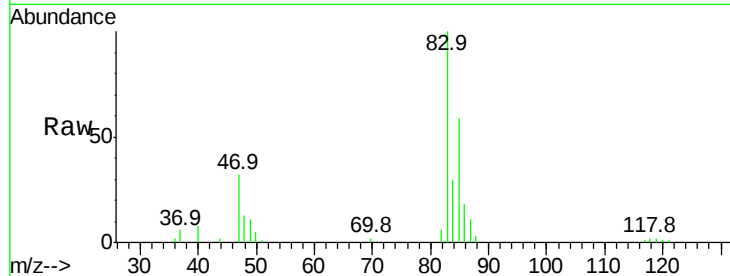




#25
Chloroform
Concen: 5.464 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

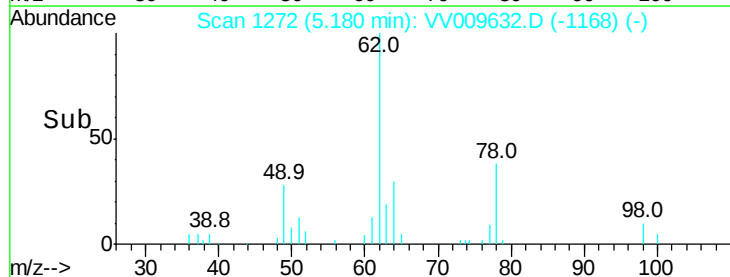
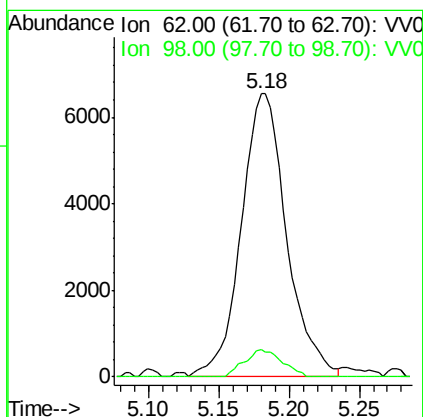
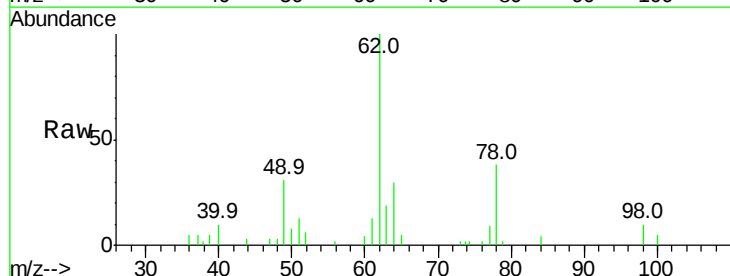
Instrument :
MSVOA_V
ClientSampleId :
VSTD00579

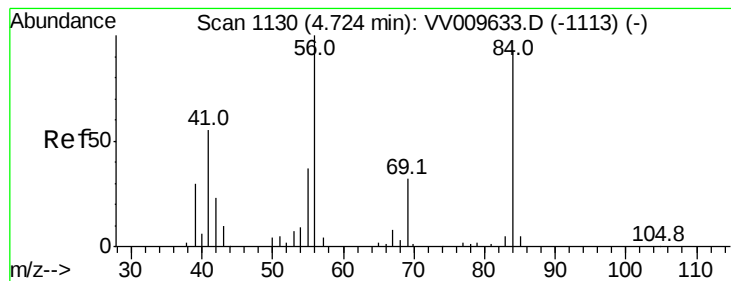
Tgt Ion: 83 Resp: 20765
Ion Ratio Lower Upper
83 100
85 67.2 46.4 86.2



#27
1,2-Dichloroethane
Concen: 5.589 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

Tgt Ion: 62 Resp: 14751
Ion Ratio Lower Upper
62 100
98 9.6 7.2 10.8





#30

Cyclohexane

Concen: 5.509 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00579

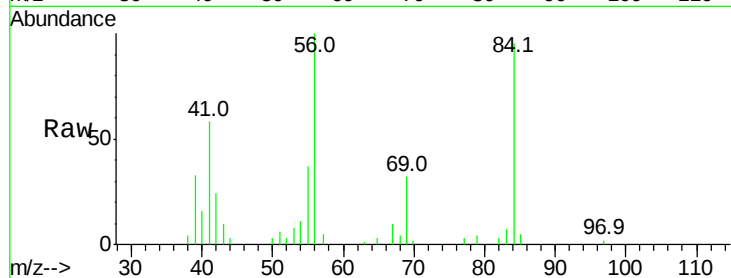
Tgt Ion: 56 Resp: 17407

Ion Ratio Lower Upper

56 100

69 31.5 25.4 38.0

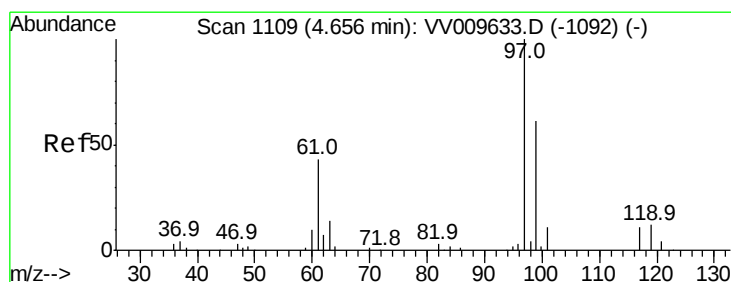
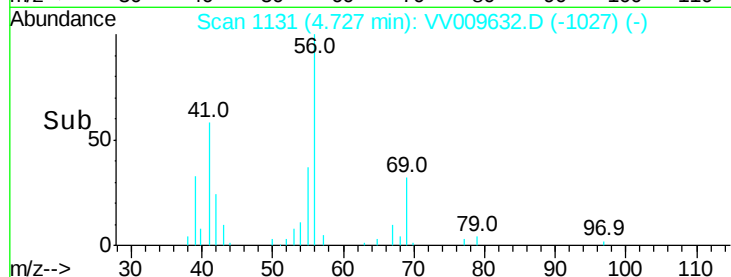
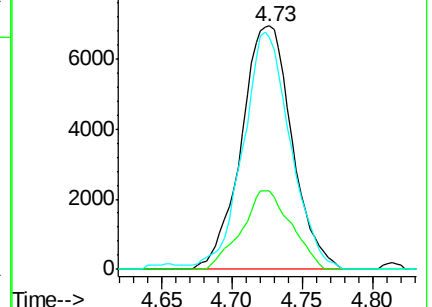
84 91.2 72.6 109.0



Abundance Ion 56.00 (55.70 to 56.70): VV009633.D (-1113) (-)

Ion 69.00 (68.70 to 69.70): VV009633.D (-1113) (-)

Ion 84.00 (83.70 to 84.70): VV009633.D (-1113) (-)



#31

1,1,1-Trichloroethane

Concen: 5.348 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

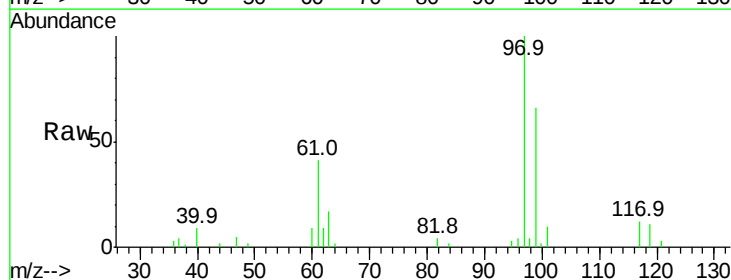
Tgt Ion: 97 Resp: 17802

Ion Ratio Lower Upper

97 100

99 66.9 51.0 76.6

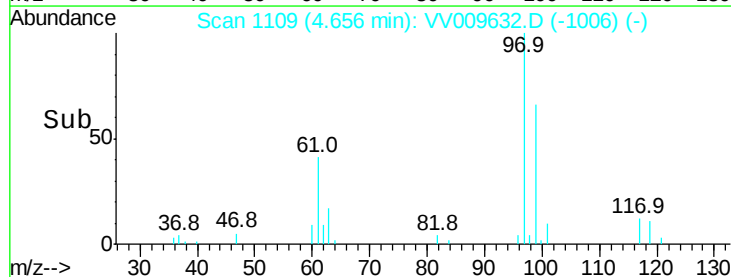
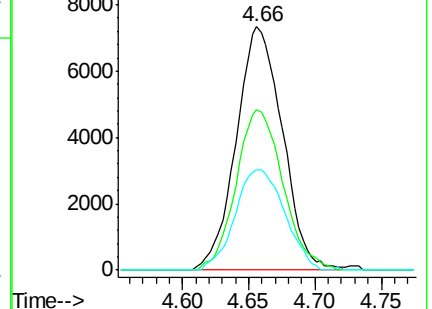
61 44.1 33.7 50.5

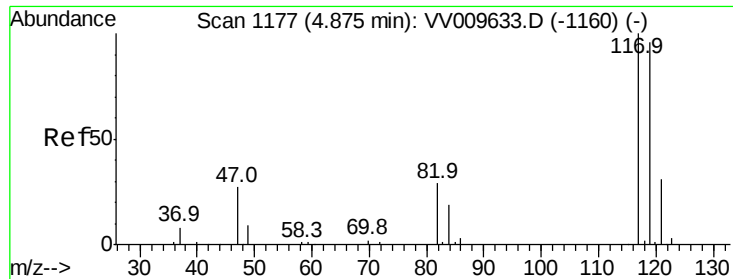


Abundance Ion 97.00 (96.70 to 97.70): VV009633.D (-1092) (-)

Ion 99.00 (98.70 to 99.70): VV009633.D (-1092) (-)

Ion 61.00 (60.70 to 61.70): VV009633.D (-1092) (-)





#32

Carbon tetrachloride

Concen: 5.365 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

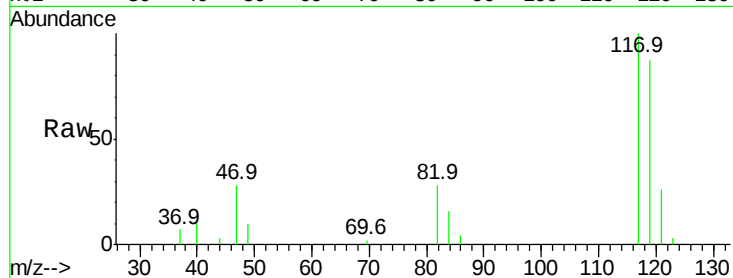
VSTD00579

Tgt Ion:117 Resp: 15097

Ion Ratio Lower Upper

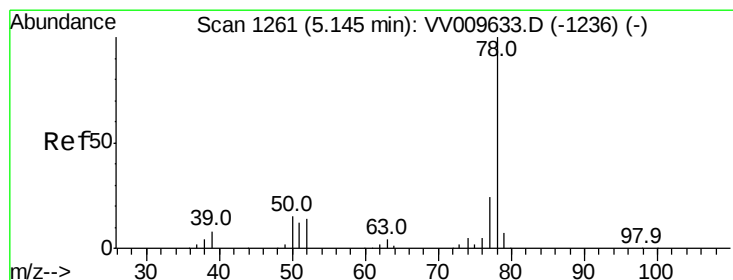
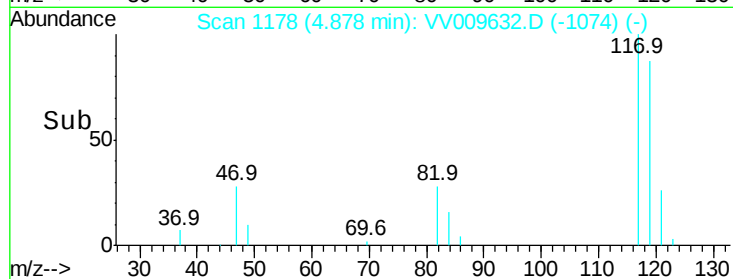
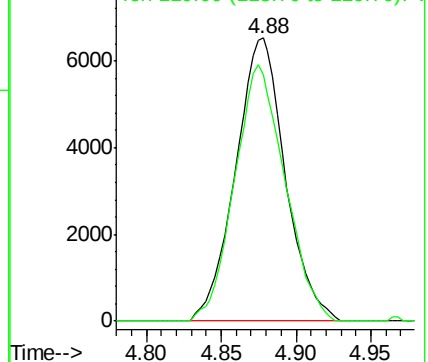
117 100

119 91.6 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 5.696 ug/L

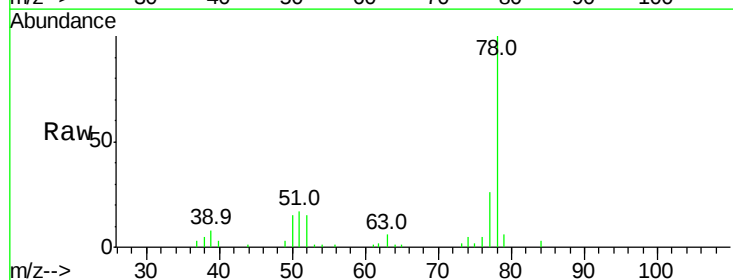
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

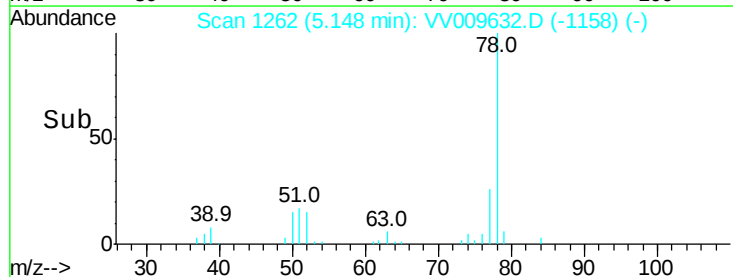
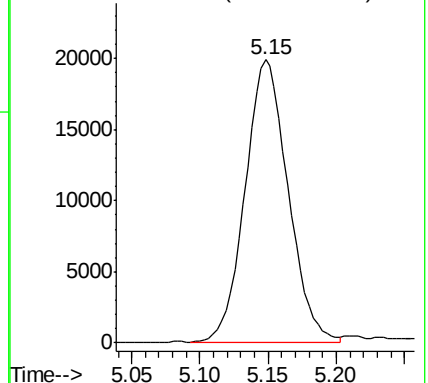
Lab File: VV009632.D

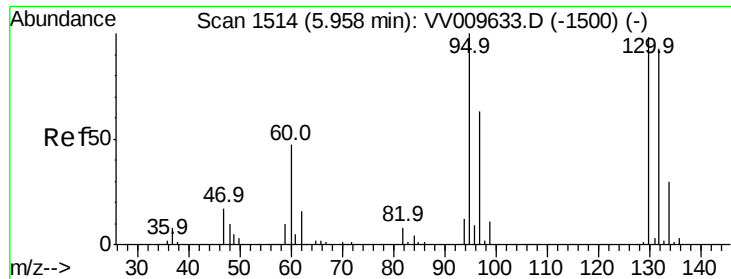
Acq: 13 Mar 2019 11:00

Tgt Ion: 78 Resp: 43824



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 5.538 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00579

Tgt Ion: 95 Resp: 12245

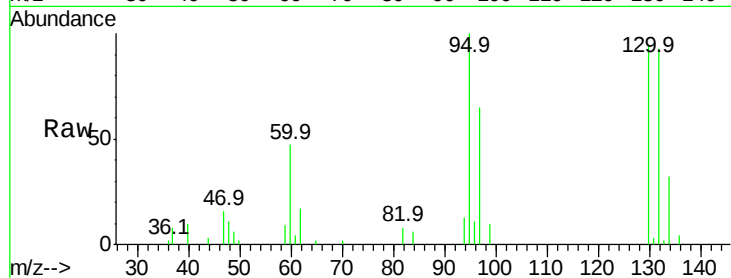
Ion Ratio Lower Upper

95 100

97 65.9 44.9 83.5

132 94.2 66.4 123.2

130 95.7 70.2 130.4

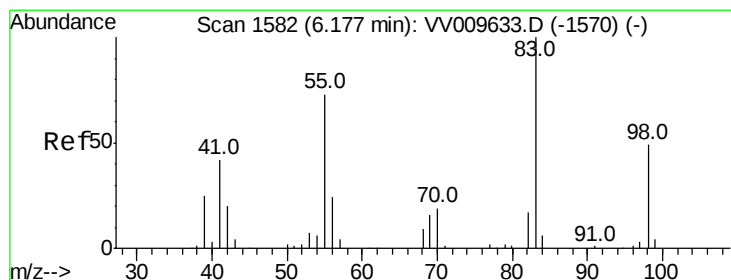
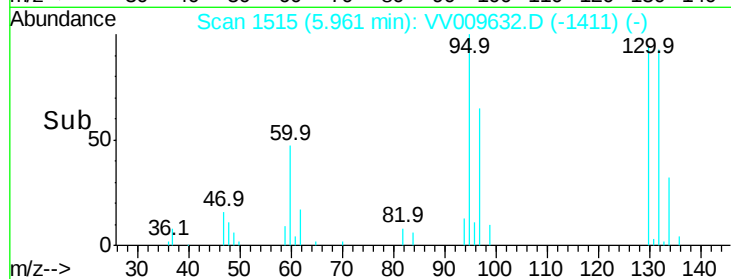
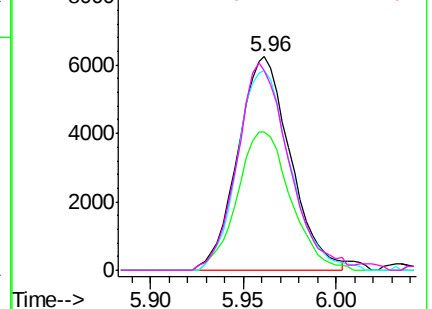


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 5.964 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

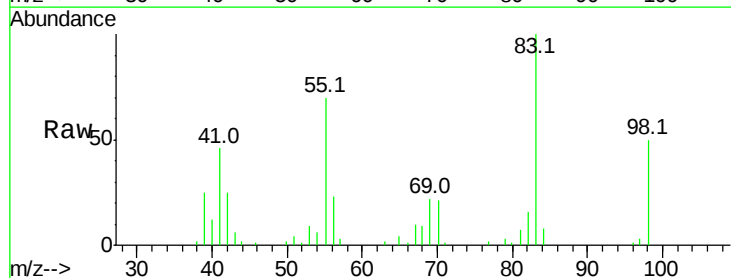
Tgt Ion: 83 Resp: 21483

Ion Ratio Lower Upper

83 100

55 67.5 57.4 86.0

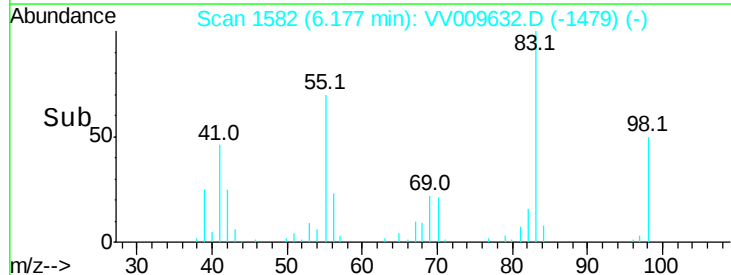
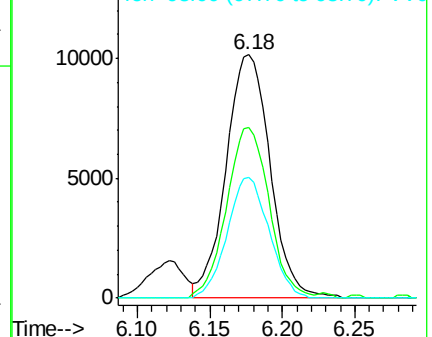
98 46.9 37.1 55.7

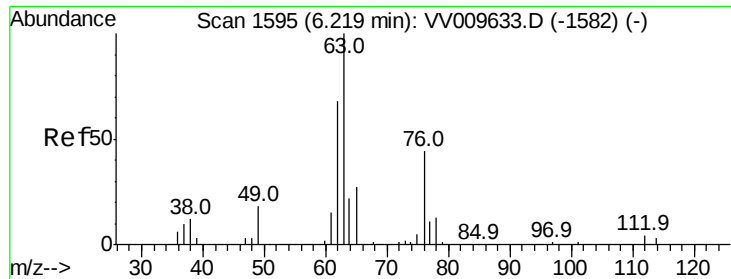


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

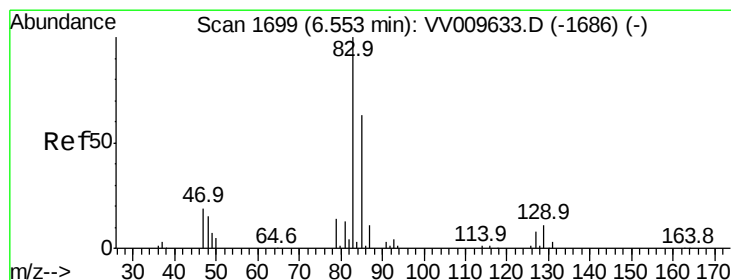
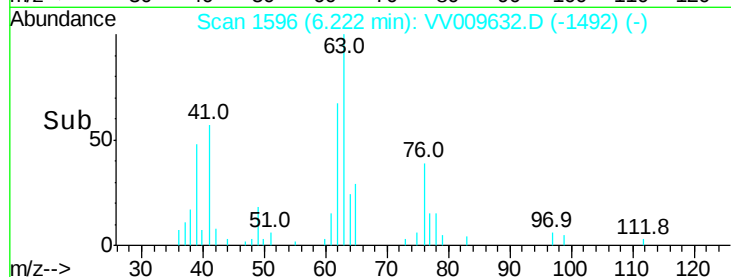
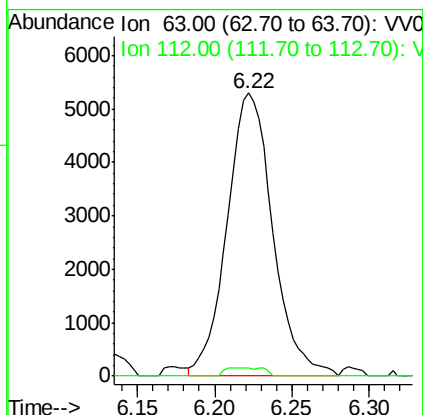
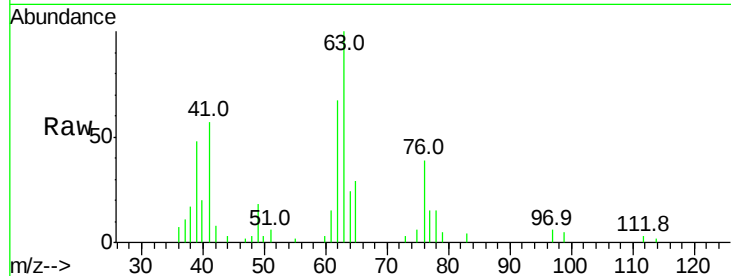




#40
 1,2-Dichloropropane
 Concen: 5.486 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

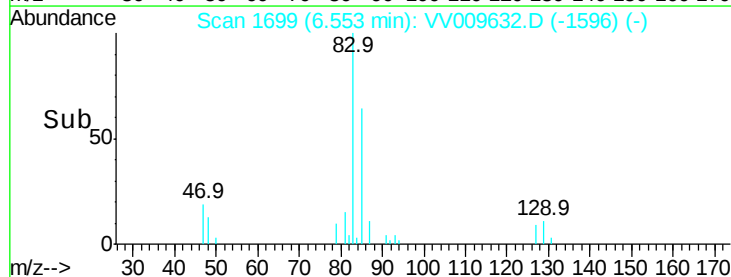
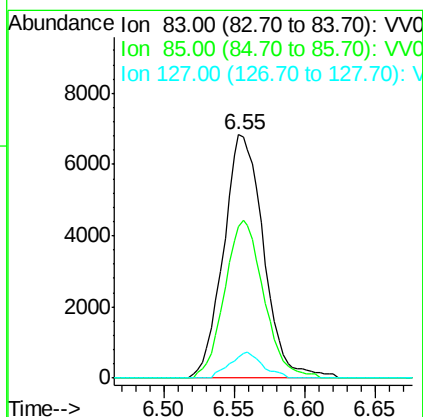
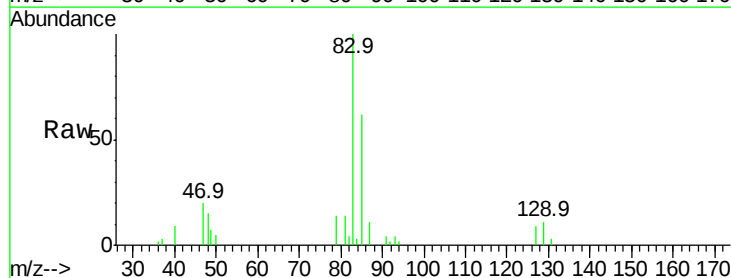
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00579

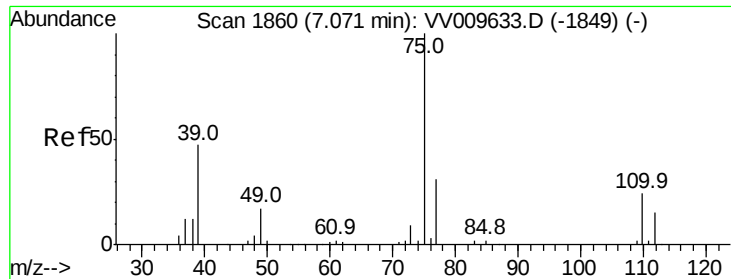
Tgt Ion: 63 Resp: 10883
 Ion Ratio Lower Upper
 63 100
 112 1.8 3.2 4.8#



#41
 Bromodichloromethane
 Concen: 5.072 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

Tgt Ion: 83 Resp: 13582
 Ion Ratio Lower Upper
 83 100
 85 62.4 44.4 82.4
 127 8.6 6.7 10.1

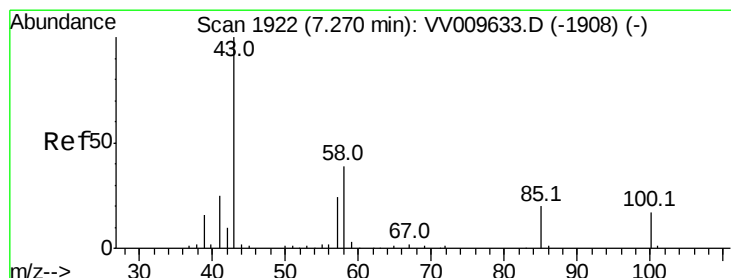
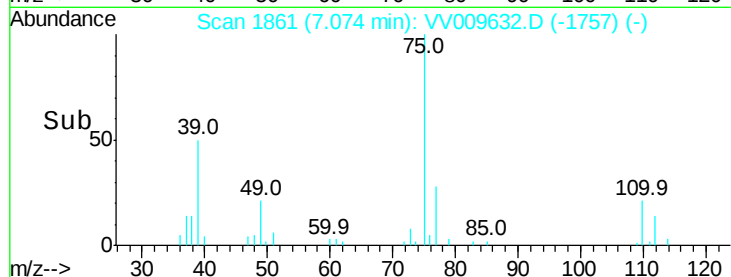
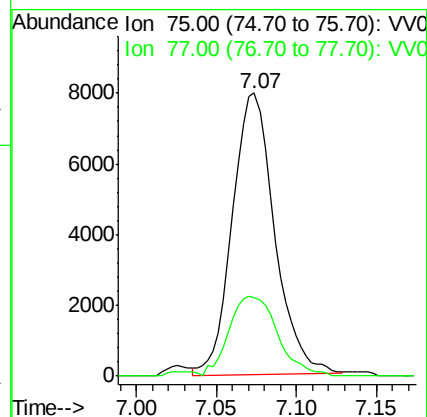
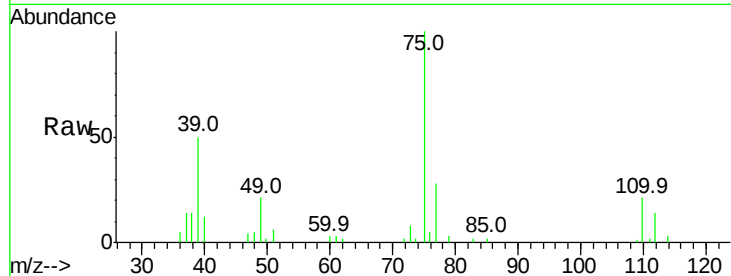




#42
 cis-1,3-Dichloropropene
 Concen: 4.644 ug/L
 RT: 7.07 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

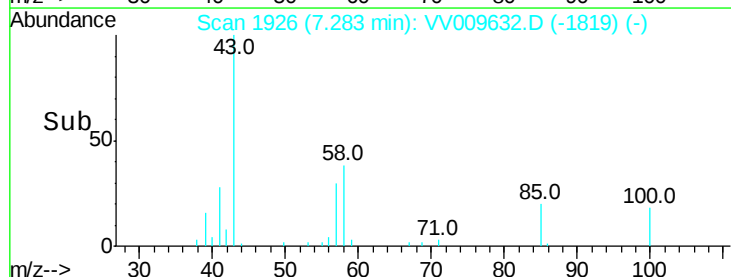
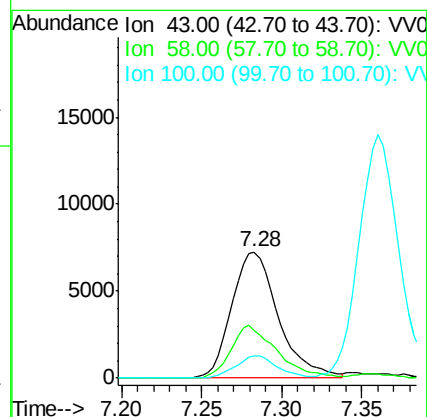
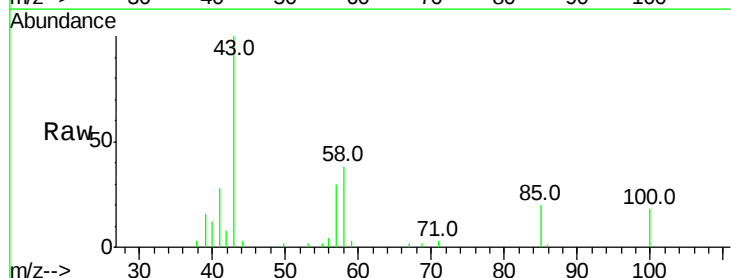
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00579

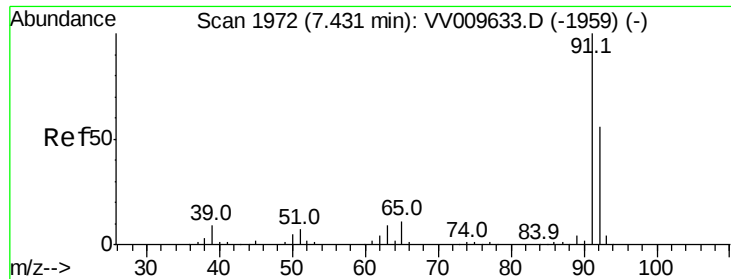
Tgt Ion: 75 Resp: 14303
 Ion Ratio Lower Upper
 75 100
 77 27.7 22.0 40.8



#43
 4-Methyl-2-pentanone
 Concen: 9.255 ug/L
 RT: 7.28 min Scan# 1926
 Delta R.T. 0.01 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

Tgt Ion: 43 Resp: 14473
 Ion Ratio Lower Upper
 43 100
 58 41.0 30.9 46.3
 100 15.8 11.8 17.6





#44

Toluene

Concen: 5.427 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

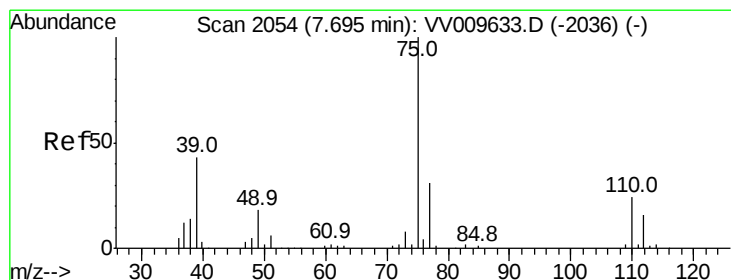
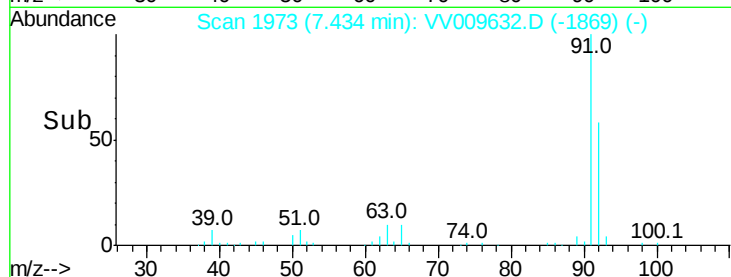
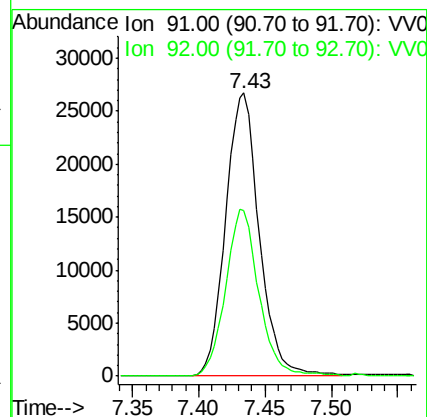
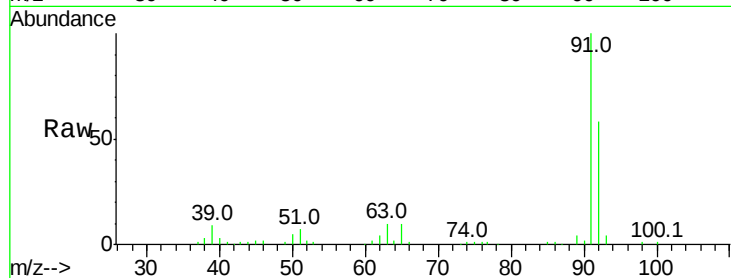
VSTD00579

Tgt Ion: 91 Resp: 47197

Ion Ratio Lower Upper

91 100

92 58.3 39.5 73.4



#45

trans-1,3-Dichloropropene

Concen: 4.654 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV009632.D

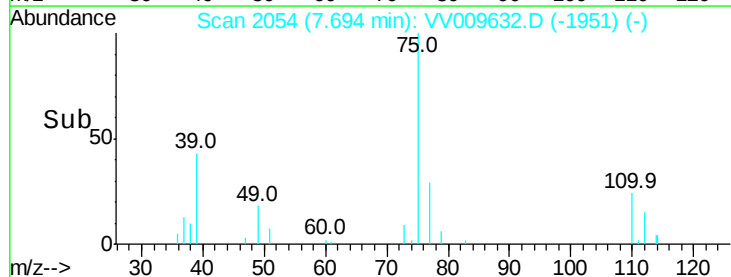
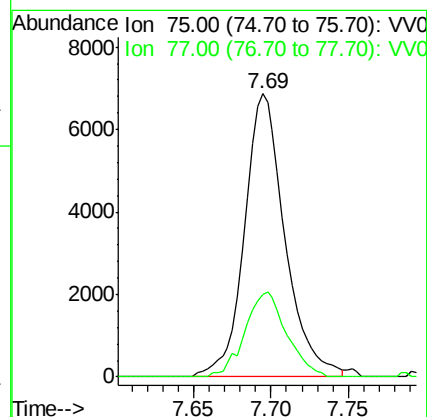
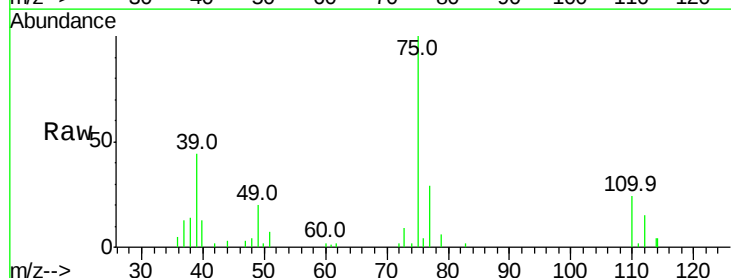
Acq: 13 Mar 2019 11:00

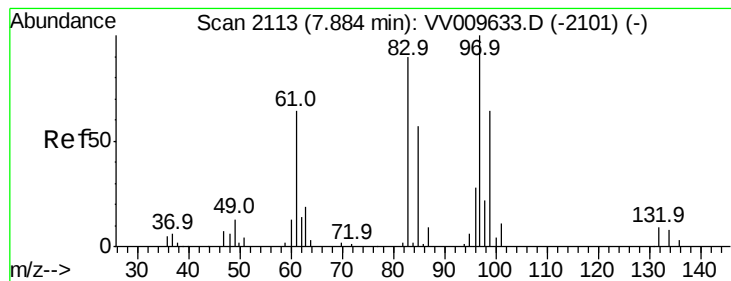
Tgt Ion: 75 Resp: 12517

Ion Ratio Lower Upper

75 100

77 29.1 22.0 40.8





#46

1,1,2-Trichloroethane

Concen: 5.149 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00579

Tgt Ion: 97 Resp: 8486

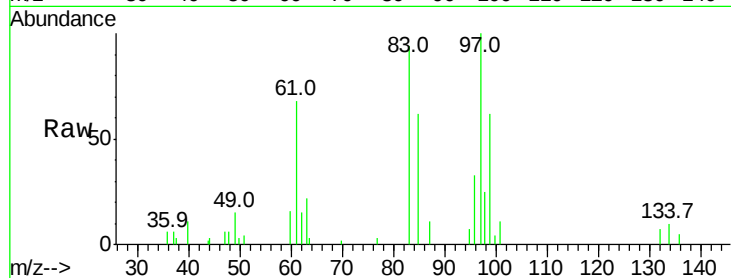
Ion Ratio Lower Upper

97 100

83 93.8 62.9 116.7

85 61.9 40.0 74.2

99 66.4 44.9 83.3

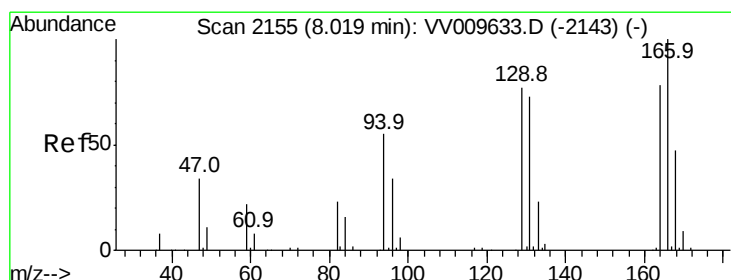
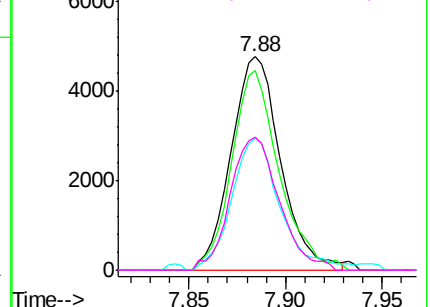
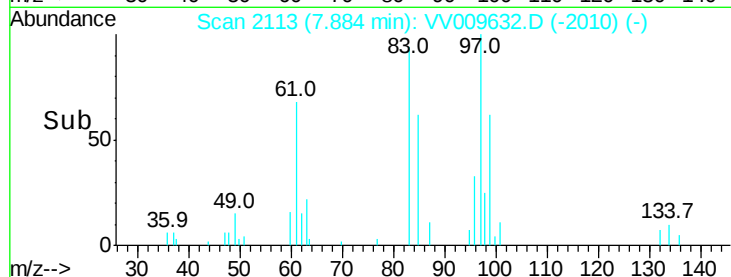


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 5.810 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Tgt Ion: 164 Resp: 9743

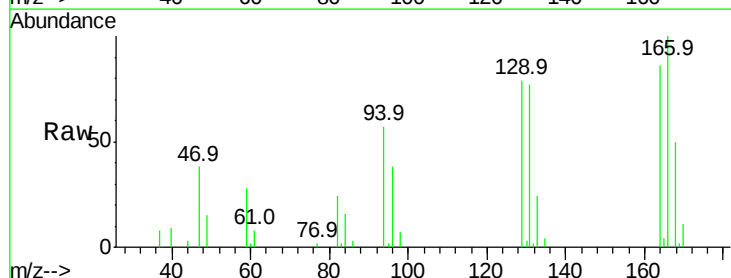
Ion Ratio Lower Upper

164 100

129 92.1 69.0 128.1

131 89.0 65.7 122.1

166 116.2 89.4 166.0

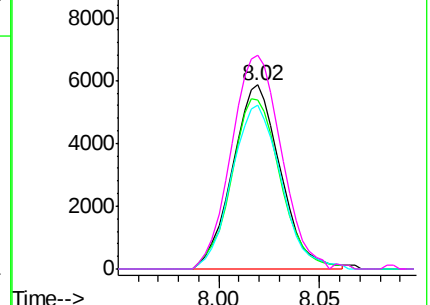
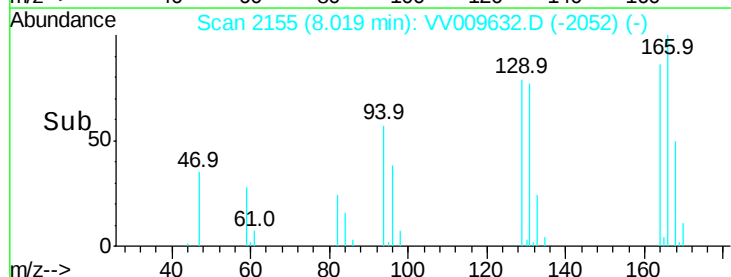


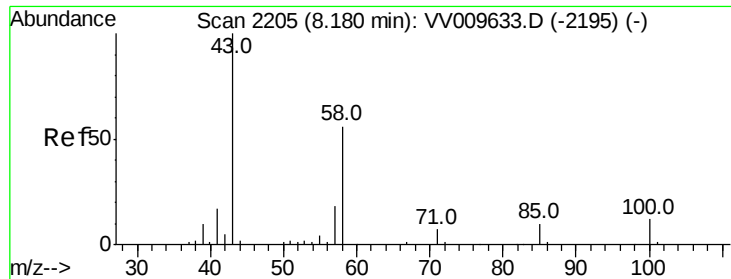
Abundance Ion 164.00 (163.70 to 164.70): V

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

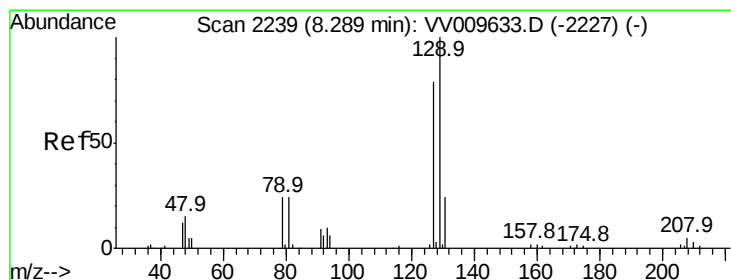
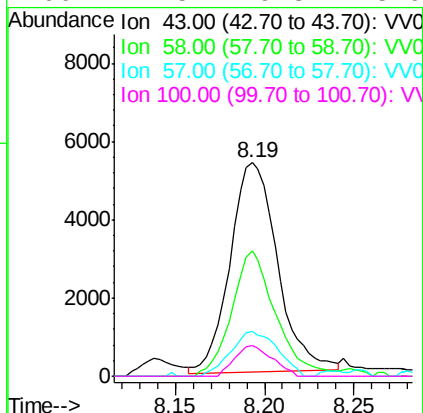
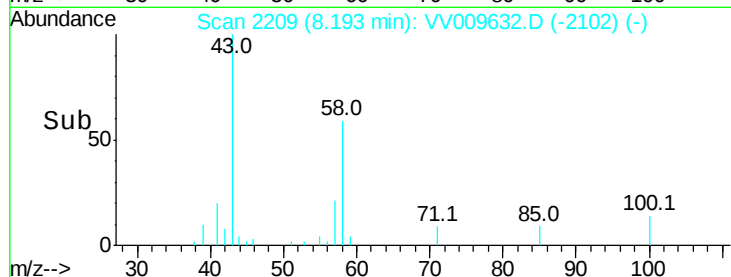
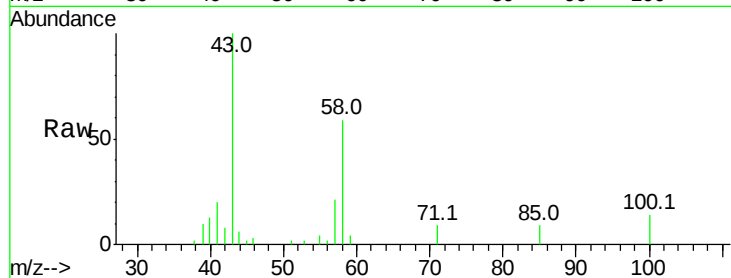




#49
2-Hexanone
Concen: 8.409 ug/L
RT: 8.19 min Scan# 2209
Delta R.T. 0.01 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

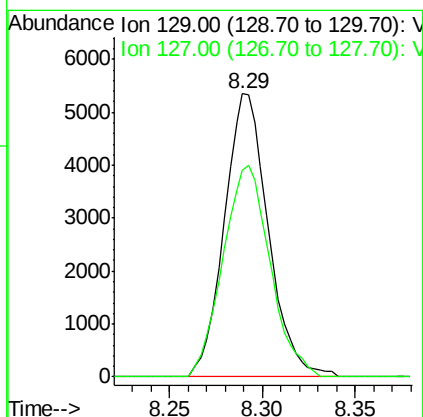
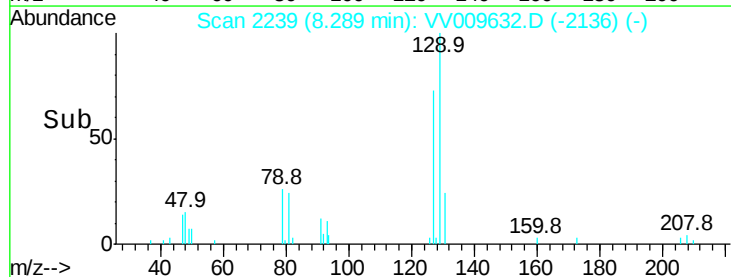
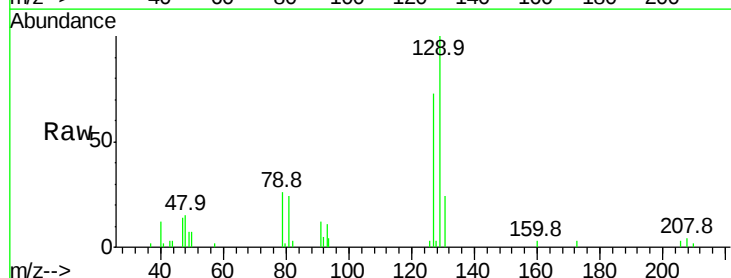
Instrument :
MSVOA_V
ClientSampleId :
VSTD00579

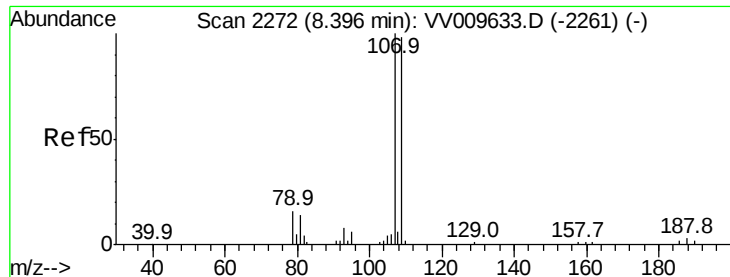
Tgt Ion: 43 Resp: 9944
Ion Ratio Lower Upper
43 100
58 55.1 44.9 67.3
57 21.1 14.5 21.7
100 11.5 9.3 13.9



#50
Dibromochloromethane
Concen: 4.414 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

Tgt Ion: 129 Resp: 8807
Ion Ratio Lower Upper
129 100
127 72.8 55.4 102.8

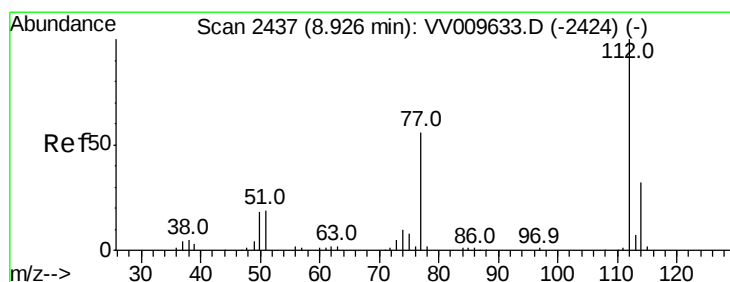
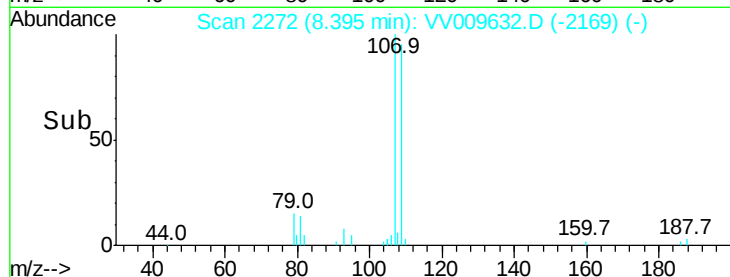
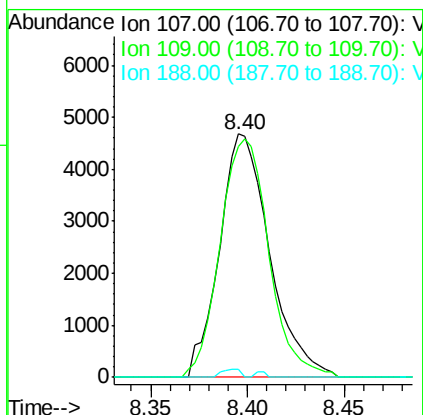
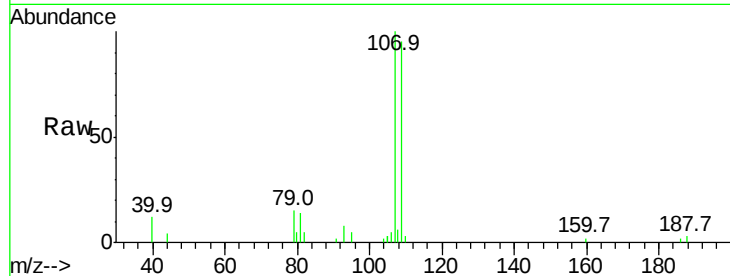




#51
1,2-Dibromoethane
Concen: 4.962 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

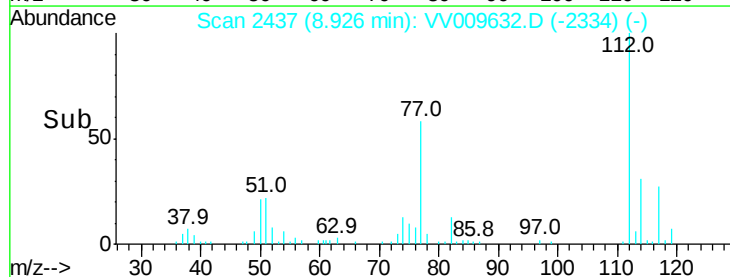
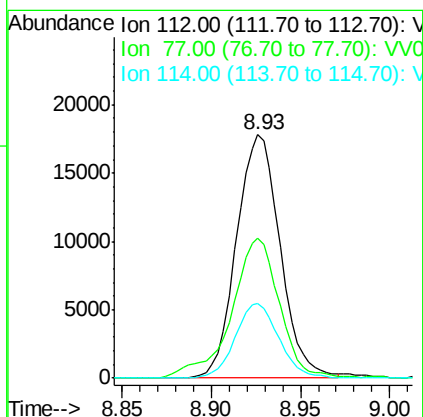
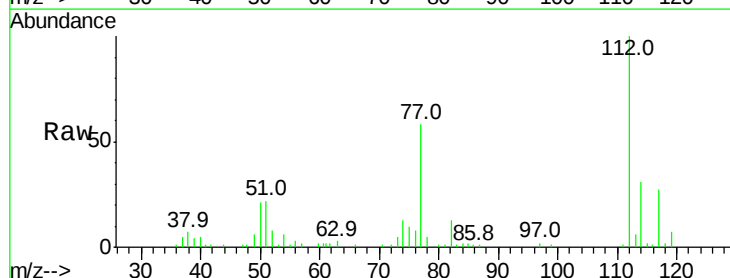
Instrument :
MSVOA_V
ClientSampleId :
VSTD00579

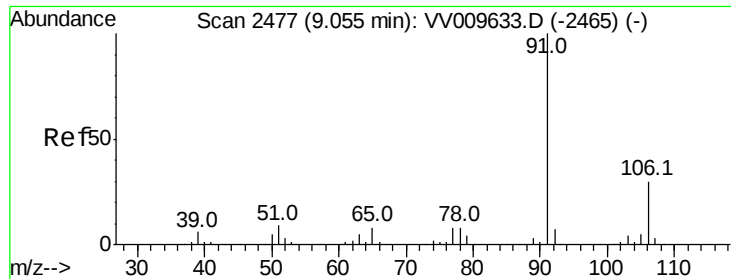
Tgt Ion:107 Resp: 8449
Ion Ratio Lower Upper
107 100
109 95.0 68.4 127.0
188 3.1 2.6 3.8



#52
Chlorobenzene
Concen: 5.287 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. -0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

Tgt Ion:112 Resp: 30474
Ion Ratio Lower Upper
112 100
77 57.5 45.6 68.4
114 30.5 22.3 41.5

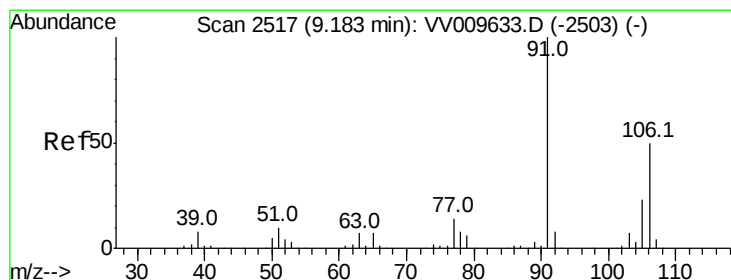
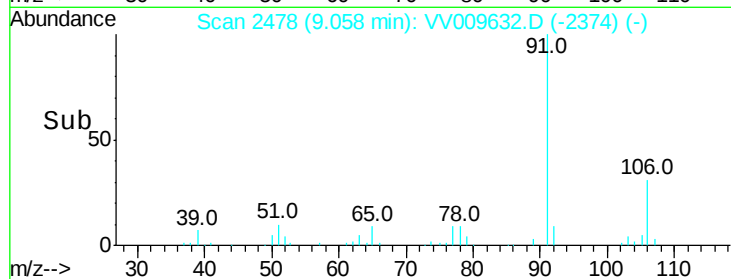
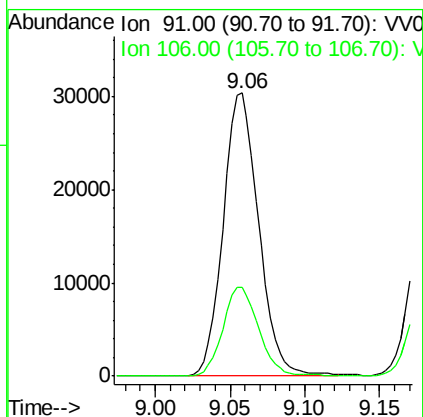
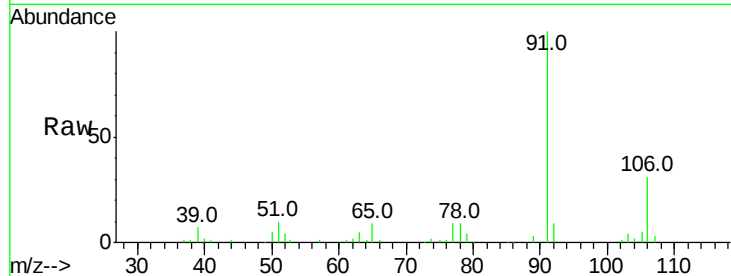




#53
Ethylbenzene
Concen: 5.058 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. 0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

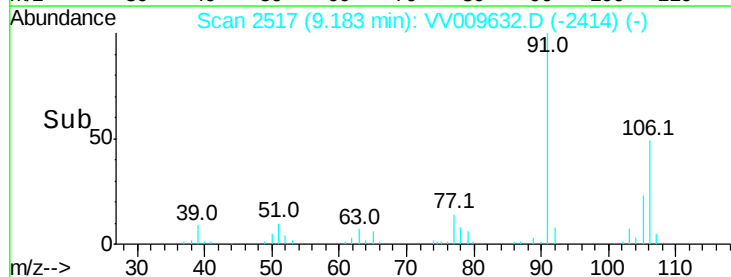
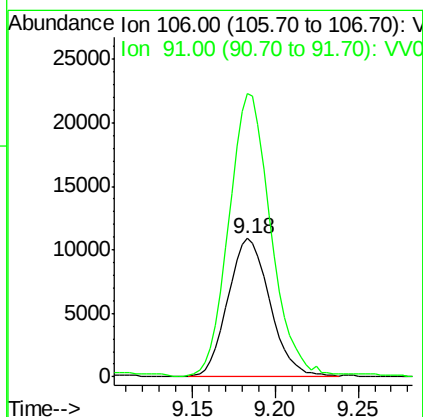
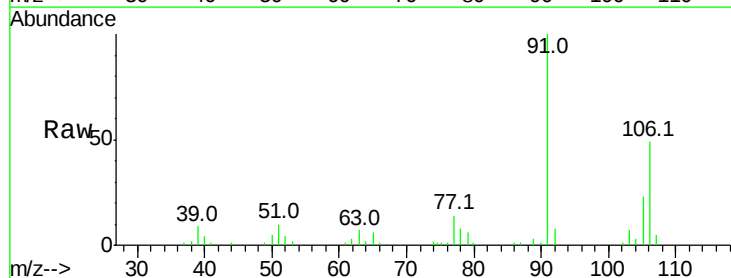
Instrument :
MSVOA_V
ClientSampled :
VSTD00579

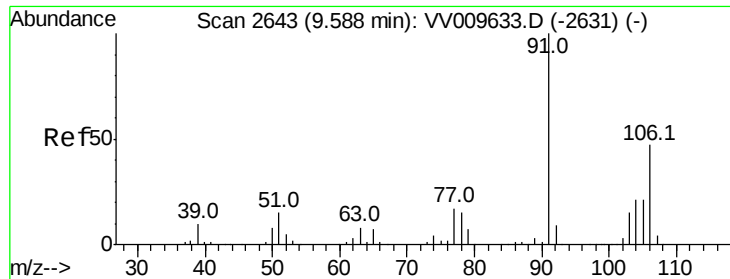
Tgt Ion: 91 Resp: 50340
Ion Ratio Lower Upper
91 100
106 31.2 21.1 39.1



#54
m,p-Xylene
Concen: 5.107 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. -0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

Tgt Ion: 106 Resp: 19234
Ion Ratio Lower Upper
106 100
91 204.5 141.4 262.6

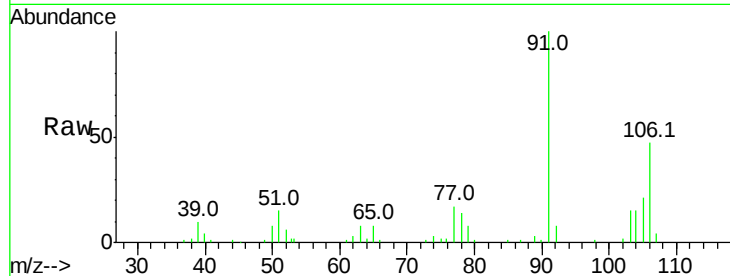




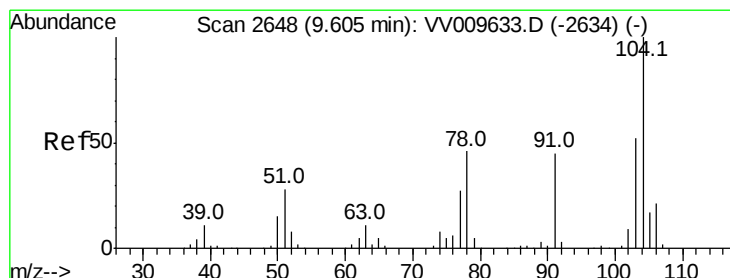
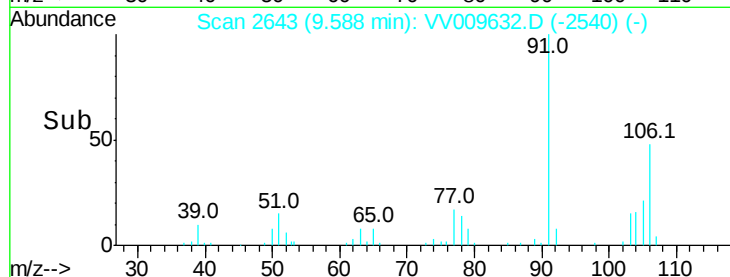
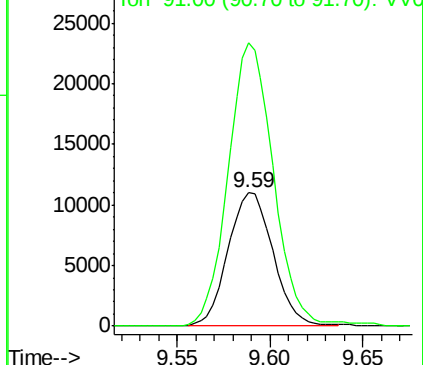
#55
o-xylene
Concen: 5.102 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

Instrument :
MSVOA_V
ClientSampled :
VSTD00579

Tgt Ion:106 Resp: 18531
Ion Ratio Lower Upper
106 100
91 212.1 149.7 278.1

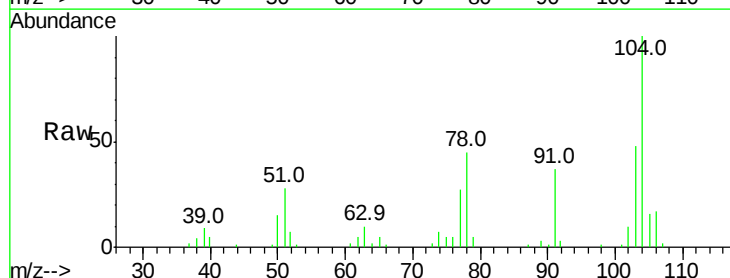


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

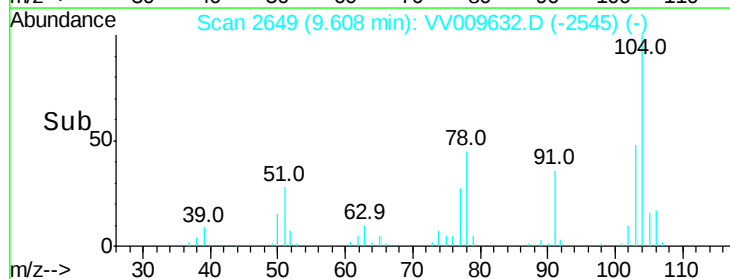
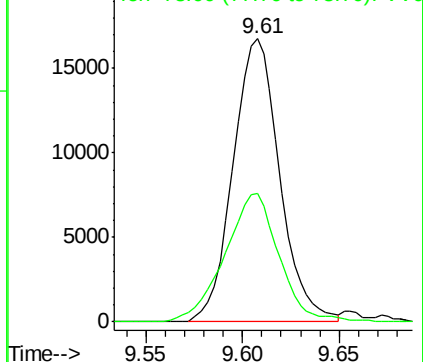


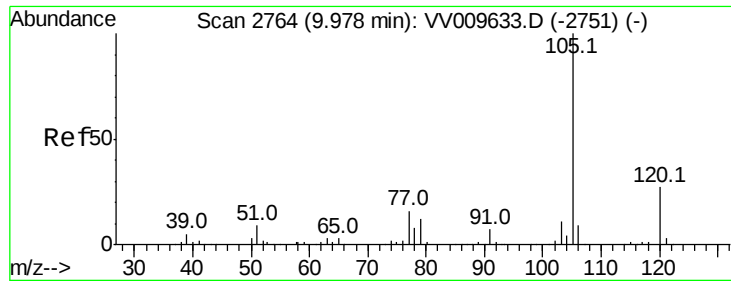
#56
Styrene
Concen: 4.705 ug/L
RT: 9.61 min Scan# 2649
Delta R.T. 0.00 min
Lab File: VV009632.D
Acq: 13 Mar 2019 11:00

Tgt Ion:104 Resp: 28115
Ion Ratio Lower Upper
104 100
78 45.2 32.3 59.9



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 4.951 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00579

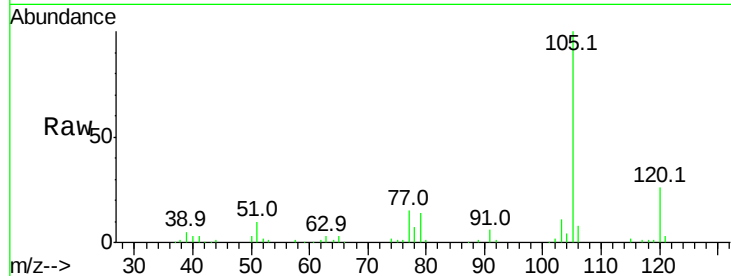
Tgt Ion: 105 Resp: 49600

Ion Ratio Lower Upper

105 100

120 26.3 21.5 32.3

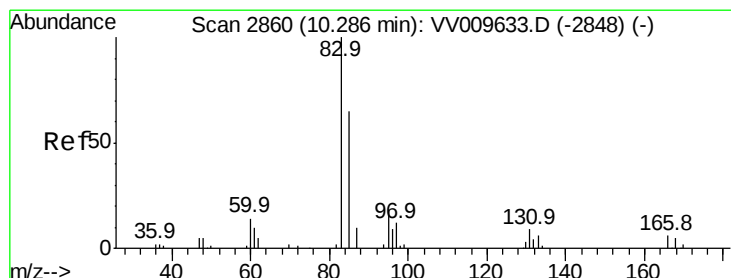
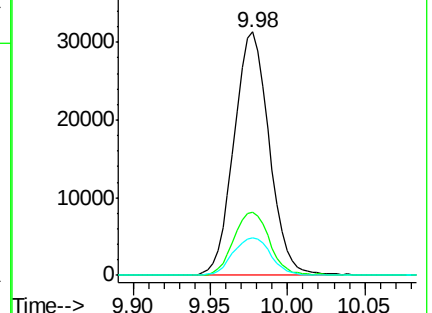
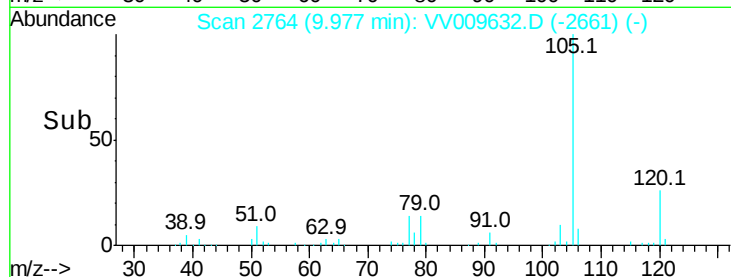
77 16.5 12.9 19.3



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: 4.703 ug/L

RT: 10.29 min Scan# 2861

Delta R.T. 0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

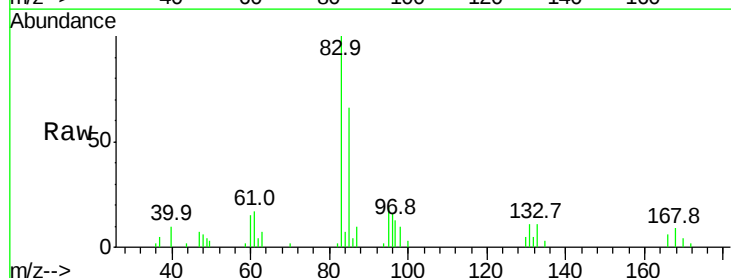
Tgt Ion: 83 Resp: 10944

Ion Ratio Lower Upper

83 100

85 65.5 46.1 85.7

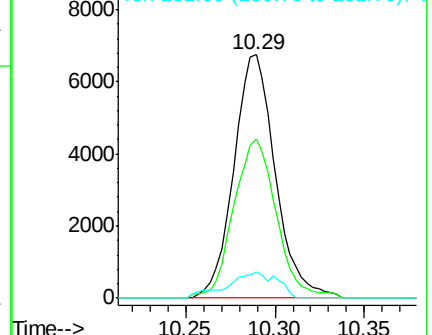
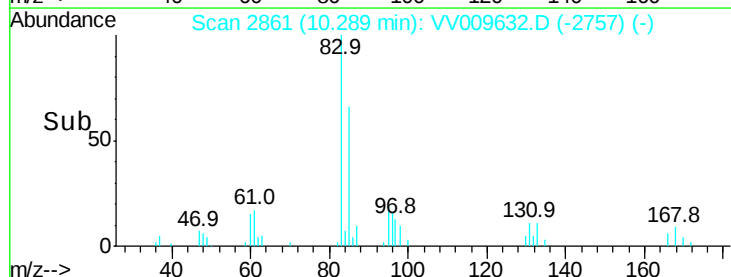
131 10.5 8.0 12.0

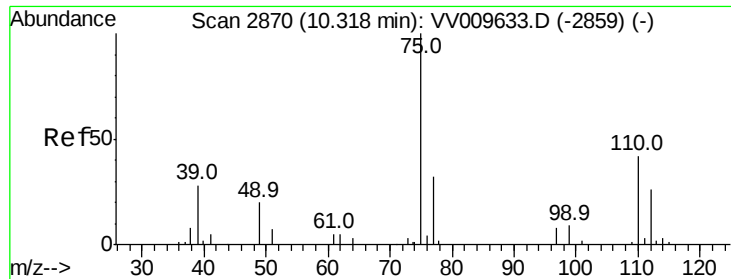


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

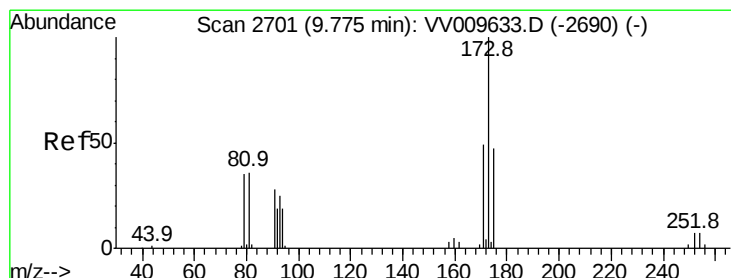
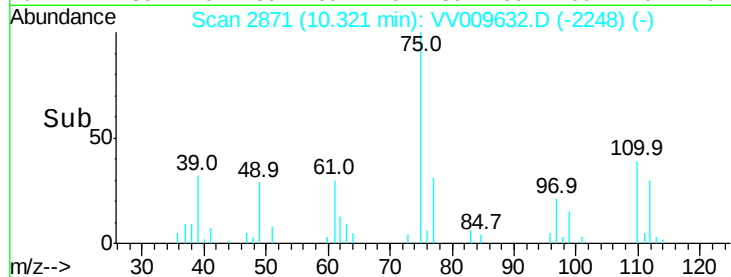
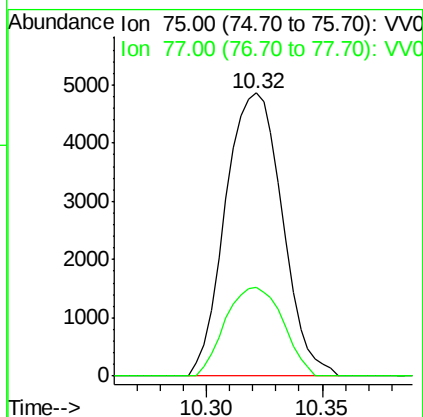
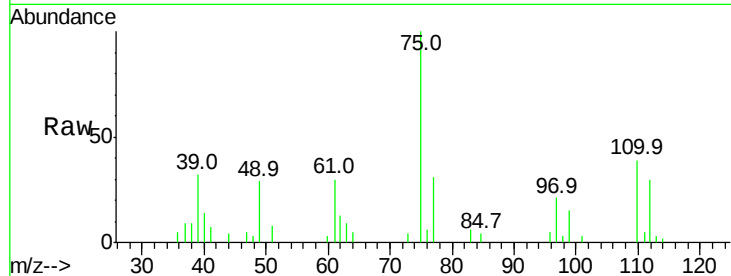




#59
 1,2,3-Trichloropropane
 Concen: 4.932 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

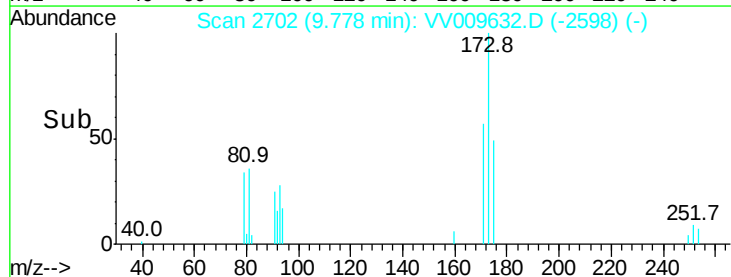
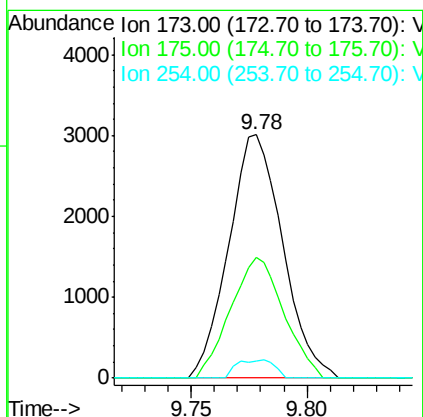
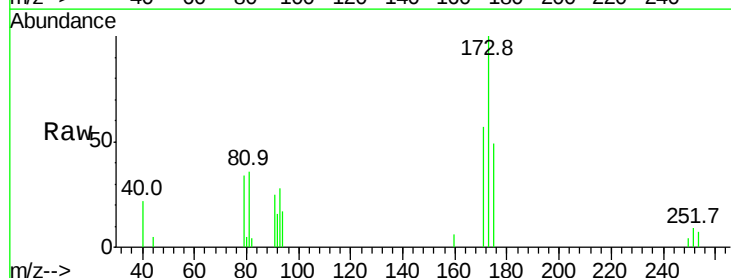
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00579

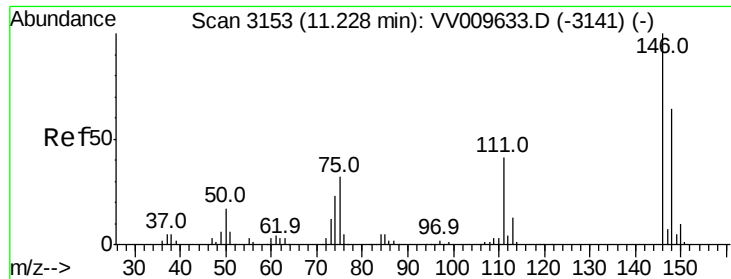
Tgt Ion: 75 Resp: 8273
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.3 37.9



#62
 Bromoform
 Concen: 4.407 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. 0.00 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

Tgt Ion: 173 Resp: 4871
 Ion Ratio Lower Upper
 173 100
 175 48.7 37.8 56.6
 254 2.2 6.1 9.1#

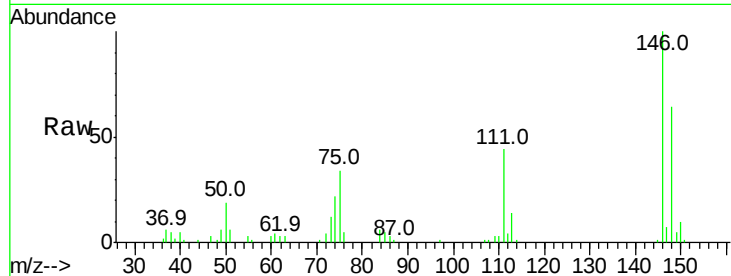




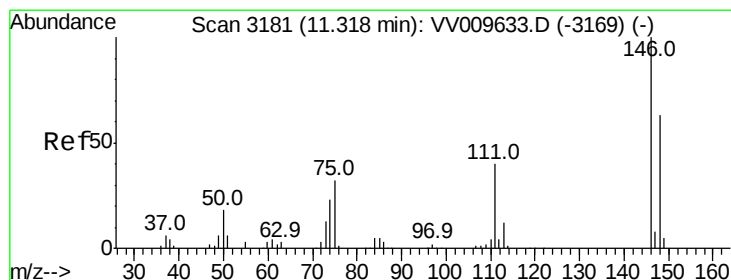
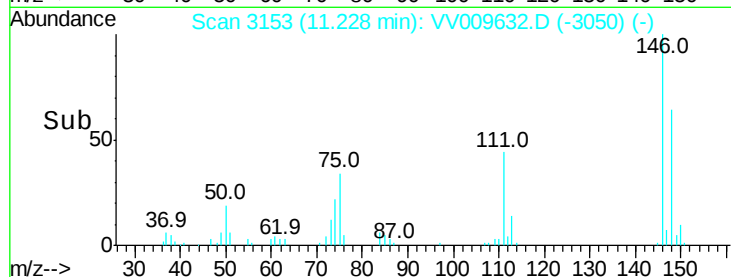
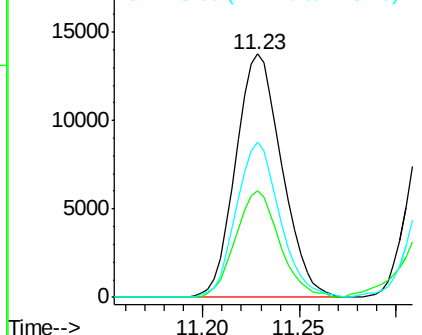
#63
 1,3-Dichlorobenzene
 Concen: 5.369 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00579

Tgt Ion:146 Resp: 22841
 Ion Ratio Lower Upper
 146 100
 111 43.6 28.8 53.6
 148 63.6 45.1 83.7

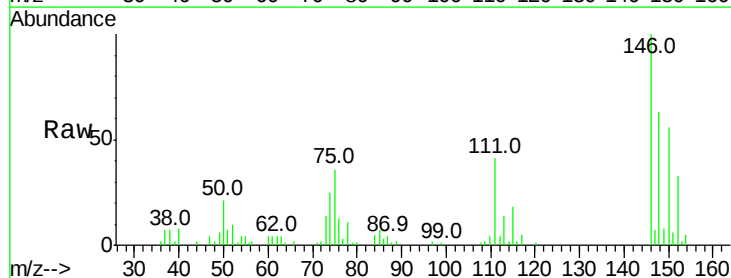


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

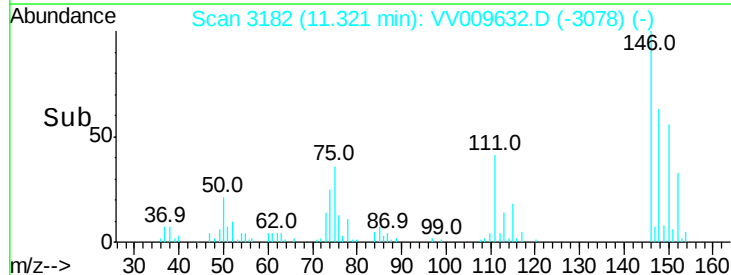
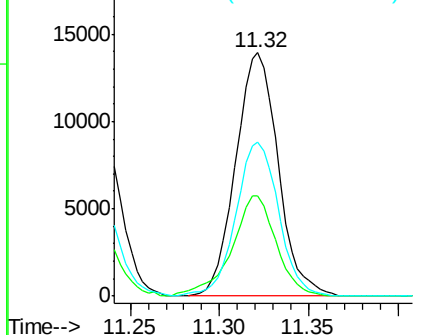


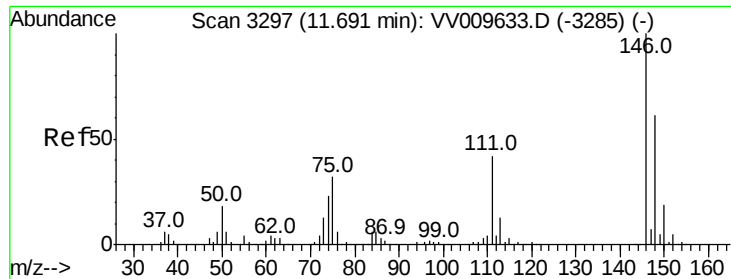
#64
 1,4-Dichlorobenzene
 Concen: 5.324 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

Tgt Ion:146 Resp: 23142
 Ion Ratio Lower Upper
 146 100
 111 41.4 28.2 52.4
 148 63.0 44.2 82.0



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





#65

1,2-Dichlorobenzene

Concen: 5.177 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00579

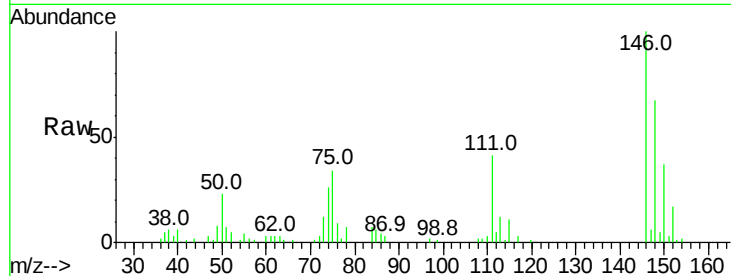
Tgt Ion:146 Resp: 20538

Ion Ratio Lower Upper

146 100

111 40.6 33.8 50.6

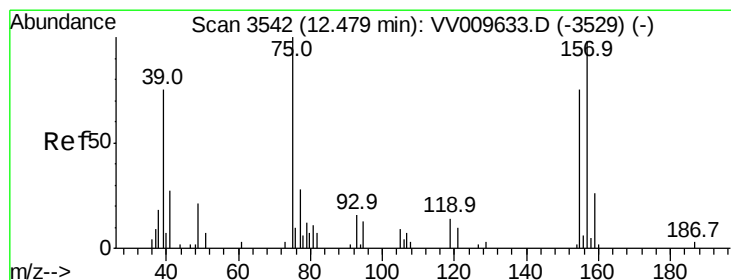
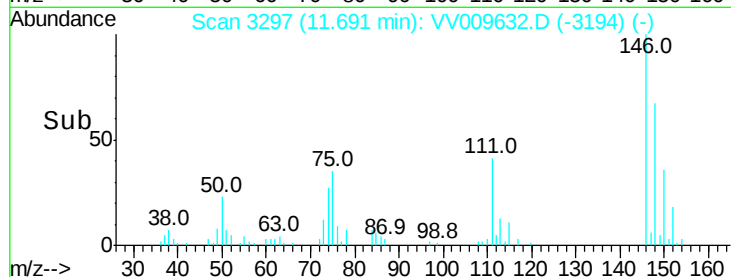
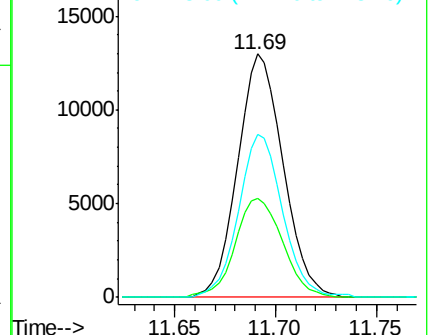
148 66.9 49.1 73.7



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 3.574 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

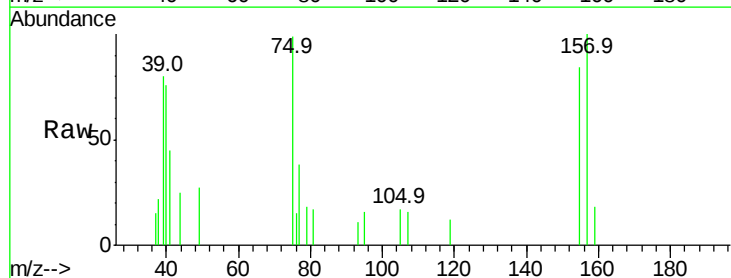
Tgt Ion: 75 Resp: 1420

Ion Ratio Lower Upper

75 100

157 100.9 78.6 118.0

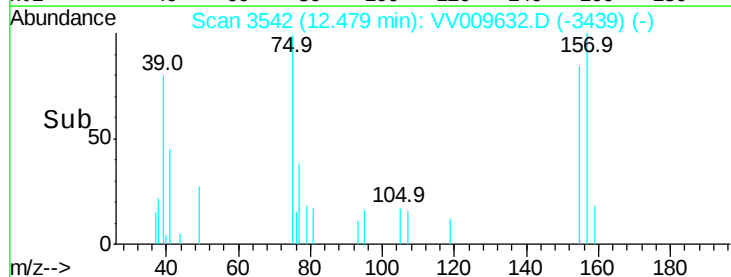
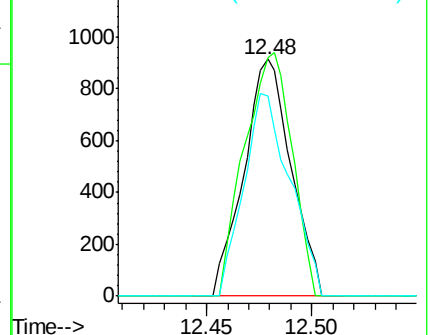
155 84.6 60.0 90.0

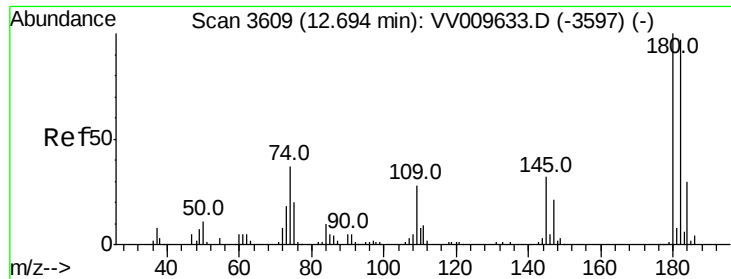


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

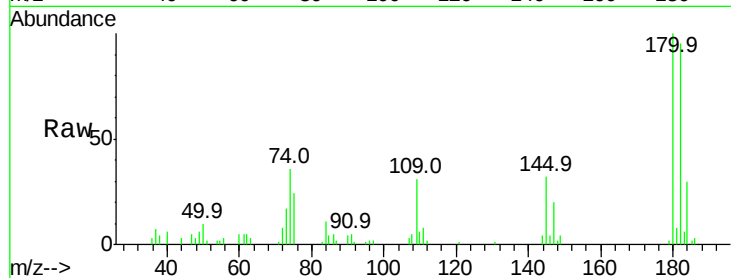




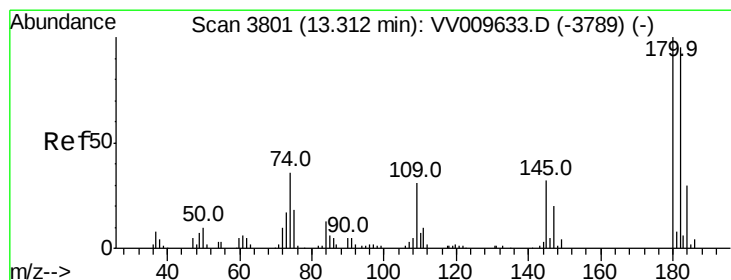
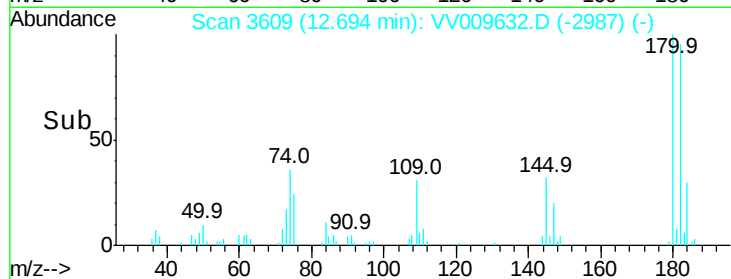
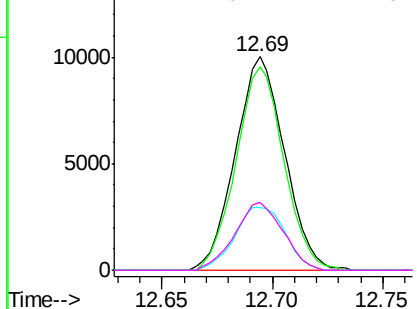
#67
 1,3,5-Trichlorobenzene
 Concen: 5.088 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00579

Tgt Ion:180 Resp: 15526
 Ion Ratio Lower Upper
 180 100
 182 92.5 76.3 114.5
 184 30.4 23.8 35.8
 145 31.0 25.8 38.8

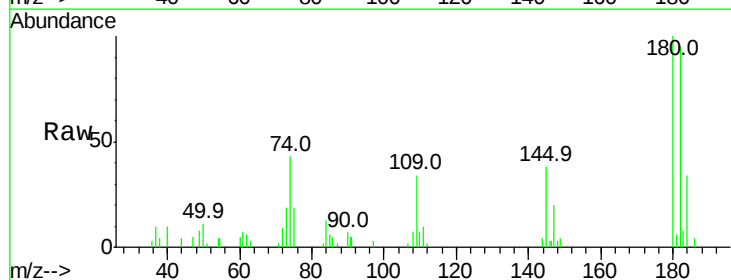


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

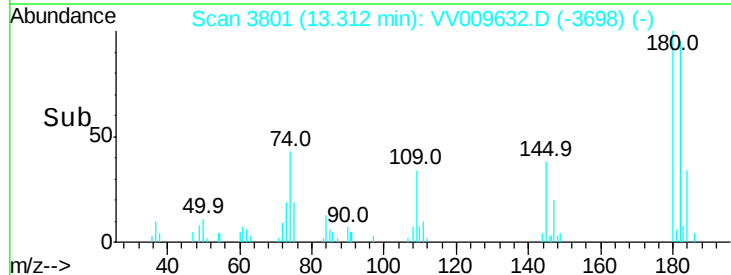
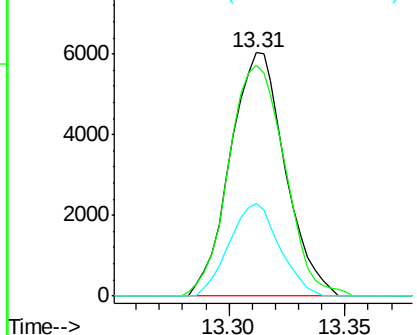


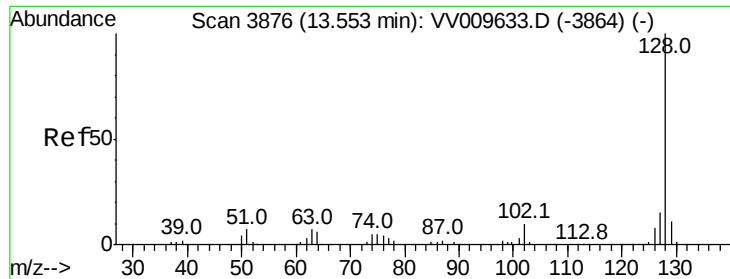
#68
 1,2,4-trichlorobenzene
 Concen: 4.056 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009632.D
 Acq: 13 Mar 2019 11:00

Tgt Ion:180 Resp: 9910
 Ion Ratio Lower Upper
 180 100
 182 97.2 77.4 116.0
 145 34.9 26.4 39.6



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





#69

Naphthalene

Concen: 2.630 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD00579

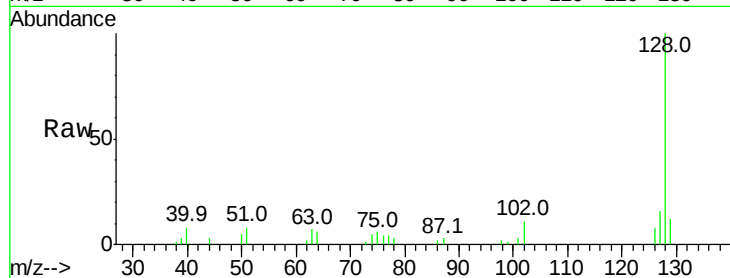
Tgt Ion:128 Resp: 13535

Ion Ratio Lower Upper

128 100

129 11.9 8.3 12.5

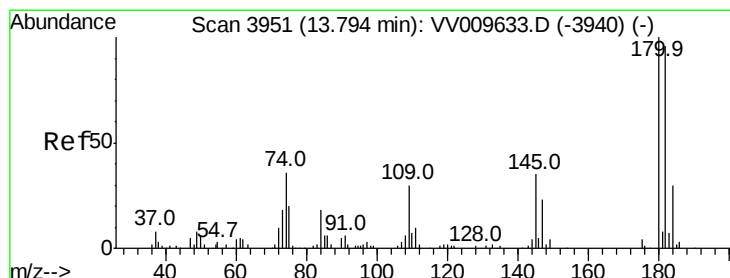
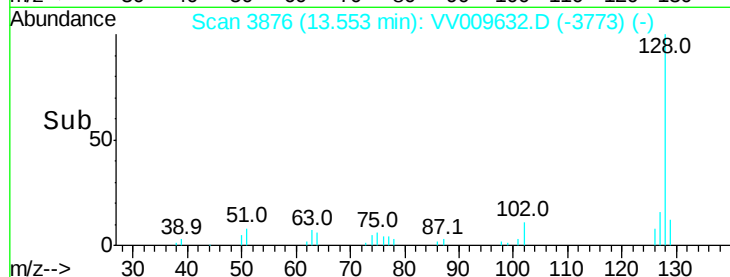
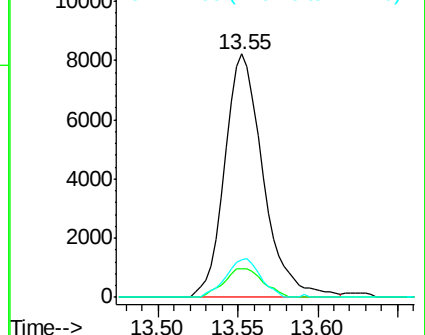
127 14.1 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.084 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009632.D

Acq: 13 Mar 2019 11:00

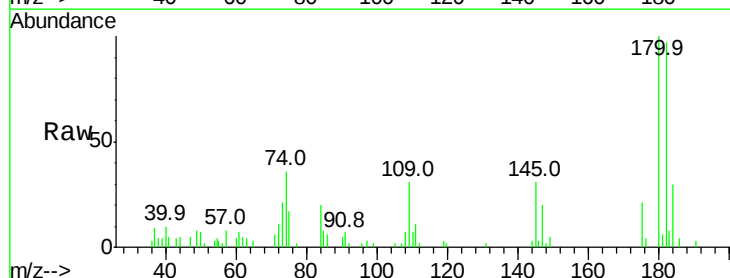
Tgt Ion:180 Resp: 9178

Ion Ratio Lower Upper

180 100

182 98.1 76.9 115.3

145 33.4 27.3 40.9



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

