

Data File : VV014607.D
Acq On : 19 Feb 2020 15:24
Operator : SY/MD
Sample : VSTD00132
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD001702

Quant Time: Feb 20 01:53:30 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR021920WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Feb 20 01:51:06 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	270273	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	252945	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	125486	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	10030	0.64	ug/L	0.00
7) Chloroethane-d5	1.58	69	8102	0.65	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	18636	0.75	ug/L	0.00
20) 2-Butanone-d5	3.96	46	8768	2.35	ug/L	0.03
24) Chloroform-d	4.39	84	19636	0.59	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	13387	0.80	ug/L	0.00
32) Benzene-d6	5.09	84	61303	0.84	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.11	67	16896	0.76	ug/L	0.00
41) Toluene-d8	7.35	98	60516	0.90	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	7088	0.77	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	23794	6.88	ug/L	0.00
56) 1,1,2,2-Tetrachloroethane-	10.26	84	12541	0.82	ug/L	0.00
66) 1,2-Dichlorobenzene-d4	11.67	152	20960	0.93	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.13	85	25900	1.171 ug/L	98
3) Chloromethane	1.25	50	11418	0.615 ug/L	100
5) Vinyl chloride	1.32	62	12004	0.690 ug/L	99
6) Bromomethane	1.53	94	7317	0.749 ug/L	97
8) Chloroethane	1.60	64	5995	0.663 ug/L	92
9) Trichlorofluoromethane	1.77	101	22950	0.998 ug/L	92
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	10395	0.877 ug/L	98
12) 1,1-Dichloroethene	2.13	96	8631	0.786 ug/L	85
13) Acetone	2.20	43	11726	4.675 ug/L	96
14) Carbon disulfide	2.31	76	49659	0.904 ug/L	98
15) Methyl Acetate	2.47	43	4632	0.852 ug/L	94
16) Methylene chloride	2.53	84	19714	0.871 ug/L	99
17) Methyl tert-butyl Ether	2.80	73	35990	0.905 ug/L	95
18) trans-1,2-Dichloroethene	2.78	96	18038	0.991 ug/L	95
19) 1,1-Dichloroethane	3.22	63	29715	0.895 ug/L	97
21) 2-Butanone	4.04	43	16289	4.135 ug/L	83
22) cis-1,2-Dichloroethene	3.96	96	19415	1.009 ug/L	# 95
23) Bromochloromethane	4.29	128	8388	1.129 ug/L	89
25) Chloroform	4.42	83	46644	1.348 ug/L	96
27) 1,2-Dichloroethane	5.18	62	17647	0.949 ug/L	# 93
29) 1,1,1-Trichloroethane	4.65	97	30092	1.021 ug/L	99
30) Cyclohexane	4.72	56	28516	0.830 ug/L	100
31) Carbon tetrachloride	4.87	117	25255	0.986 ug/L	95
33) Benzene	5.14	78	68063	0.904 ug/L	100
34) Trichloroethene	5.96	95	20298	1.026 ug/L	96
35) Methylcyclohexane	6.17	83	32089	0.927 ug/L	98
37) 1,2-Dichloropropane	6.22	63	15984	0.885 ug/L	98
38) Bromodichloromethane	6.55	83	22867	0.975 ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	24272	0.842 ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	73830	7.017 ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	74365	0.919	ug/L	95
44) trans-1,3-Dichloropropene	7.69	75	19319	0.868	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	12346	1.039	ug/L	95
47) Tetrachloroethene	8.01	164	16002	1.139	ug/L	95
48) 2-Hexanone	8.19	43	58639	8.133	ug/L	91
49) Dibromochloromethane	8.29	129	15348	1.036	ug/L	98
50) 1,2-Dibromoethane	8.39	107	11745	1.064	ug/L	90
51) Chlorobenzene	8.92	112	51370	1.028	ug/L	94
52) Ethylbenzene	9.05	91	86423	0.951	ug/L	99
53) m,p-xylene	9.18	106	32250	0.953	ug/L	91
54) o-xylene	9.58	106	31475	0.962	ug/L	96
55) Styrene	9.60	104	52436	0.967	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.28	83	13877	0.964	ug/L	99
59) Bromoform	9.77	173	7522	0.973	ug/L #	96
60) Isopropylbenzene	9.97	105	85437	0.932	ug/L	99
61) 1,2,3-Trichloropropane	10.32	75	9620	0.880	ug/L	95
62) 1,3,5-Trimethylbenzene	10.58	105	67723	0.878	ug/L	98
63) 1,2,4-Trimethylbenzene	10.95	105	65966	0.860	ug/L	98
64) 1,3-Dichlorobenzene	11.22	146	40064	1.033	ug/L	98
65) 1,4-Dichlorobenzene	11.31	146	38760	0.983	ug/L	98
67) 1,2-Dichlorobenzene	11.68	146	35709	1.028	ug/L	94
68) 1,2-Dibromo-3-chloropropan	12.48	75	2220	0.805	ug/L #	82
69) 1,3,5-Trichlorobenzene	12.69	180	28521	0.999	ug/L	99
70) 1,2,4-trichlorobenzene	13.31	180	24035	0.996	ug/L	99
71) Naphthalene	13.55	128	39511	0.902	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	20792	0.997	ug/L	94

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

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ALS Vial      : 4      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD001702

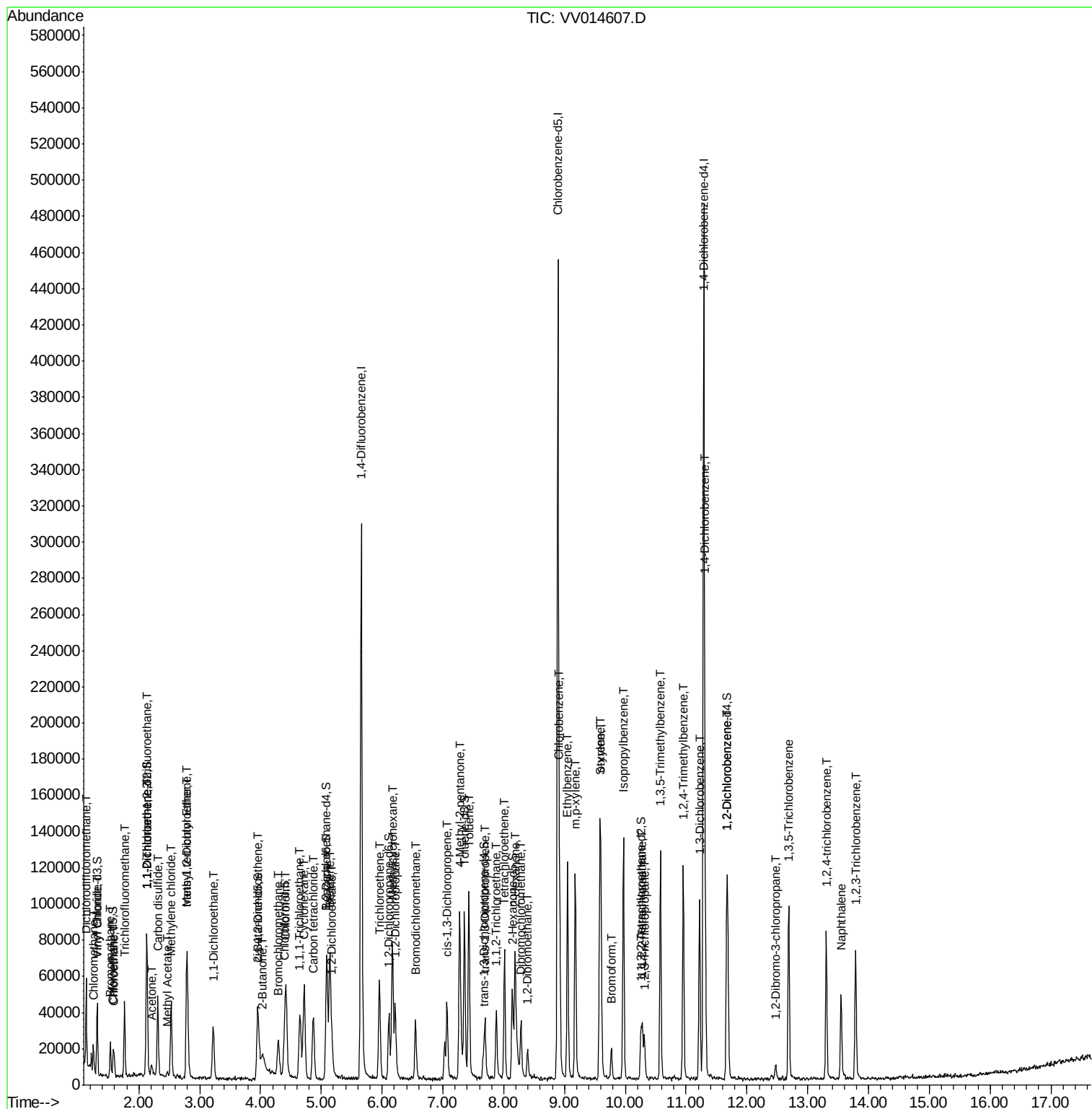
Quant Time: Feb 20 01:53:30 2020

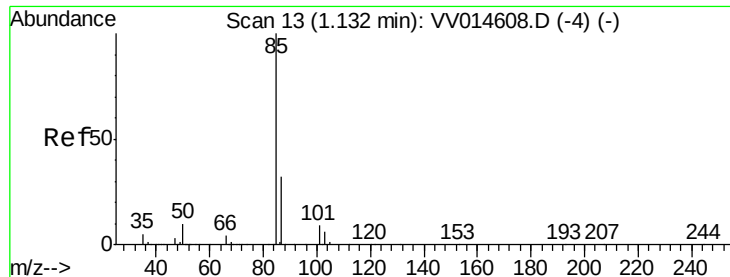
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR021920WMA.M

Quant Title : TRACE VOA SFAM1.0

QLast Update : Thu Feb 20 01:51:06 2020

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.171 ug/L

RT: 1.13 min Scan# 13

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

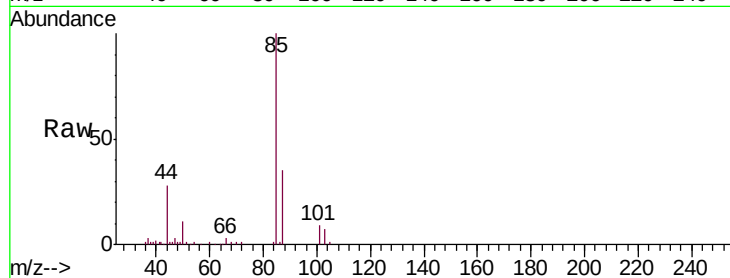
VSTD001702

Tgt Ion: 85 Resp: 25900

Ion Ratio Lower Upper

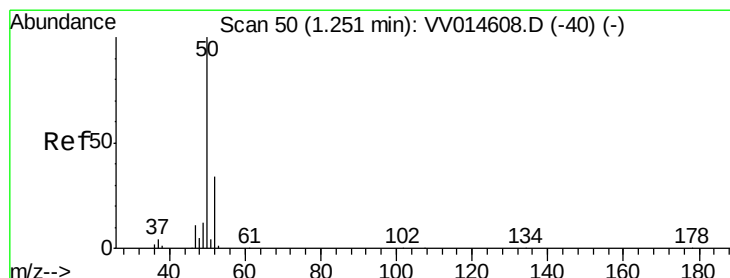
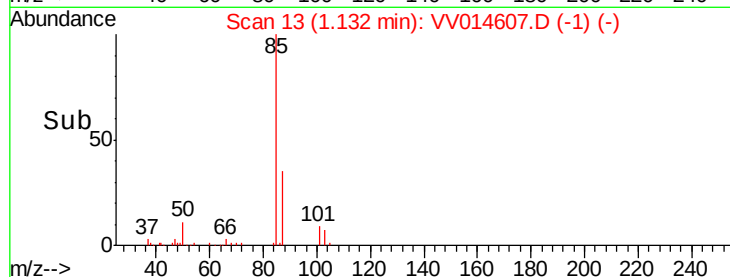
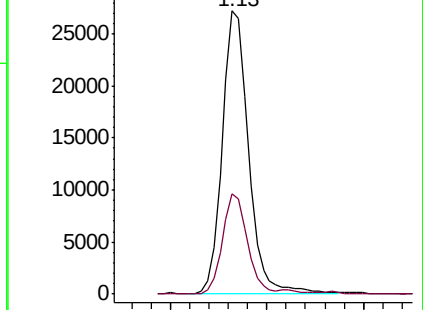
85 100

87 33.3 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV014607.D (-4) (-)

Ion 87.00 (86.70 to 87.70): VV014607.D (-4) (-)



#3

Chloromethane

Concen: 0.615 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV014607.D

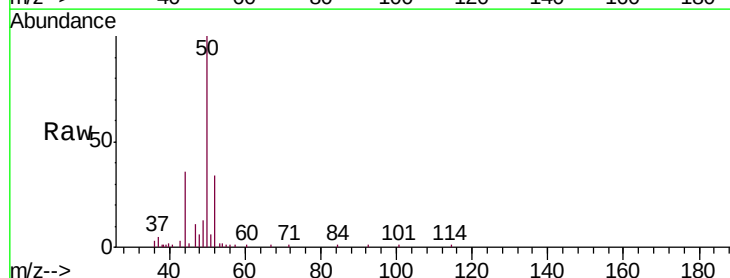
Acq: 19 Feb 2020 15:24

Tgt Ion: 50 Resp: 11418

Ion Ratio Lower Upper

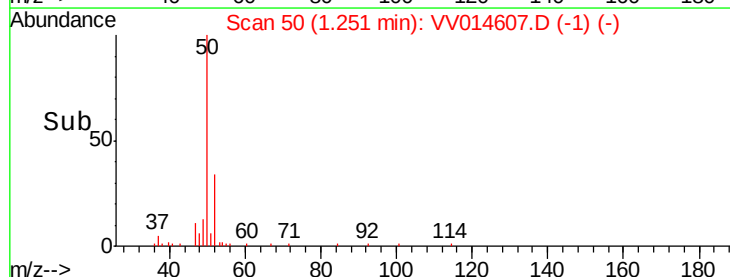
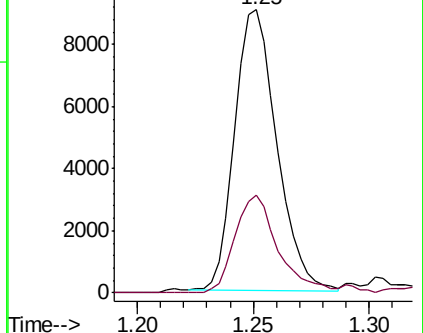
50 100

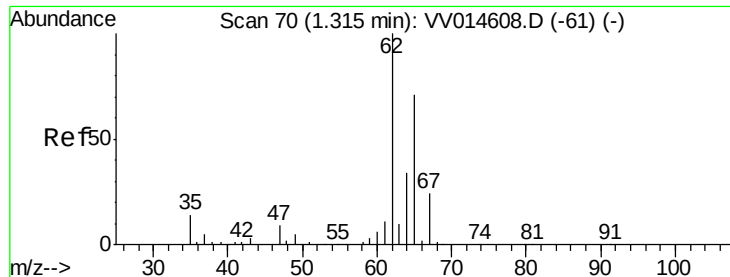
52 34.4 24.2 45.0



Abundance Ion 50.05 (49.75 to 50.75): VV014607.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VV014607.D (-1) (-)





#5

Vinyl chloride

Concen: 0.690 ug/L

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

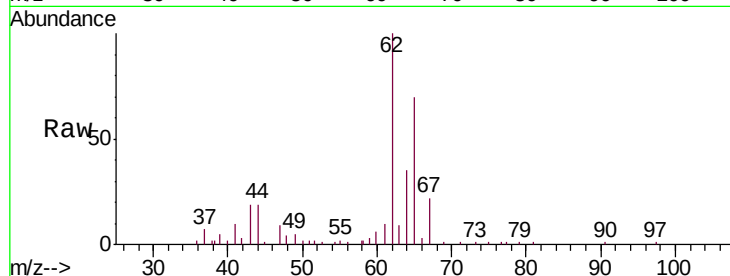
VSTD001702

Tgt Ion: 62 Resp: 12004

Ion Ratio Lower Upper

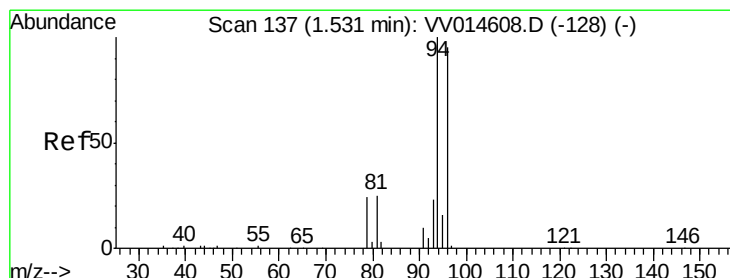
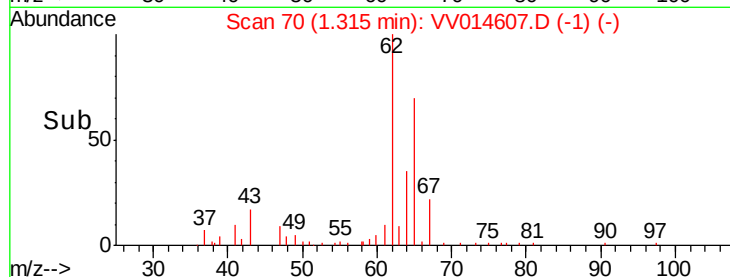
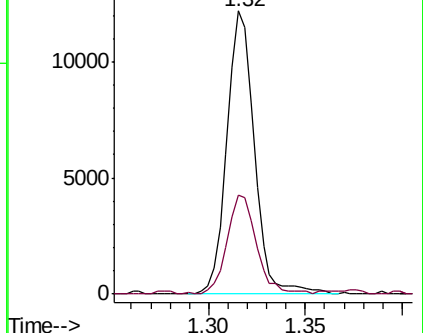
62 100

64 35.0 24.3 45.1



Abundance Ion 62.00 (61.70 to 62.70): VV014607.D (-61) (-)

Ion 64.10 (63.80 to 64.80): VV014607.D (-61) (-)



#6

Bromomethane

Concen: 0.749 ug/L

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV014607.D

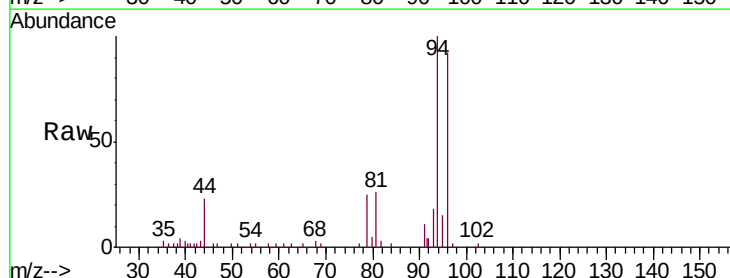
Acq: 19 Feb 2020 15:24

Tgt Ion: 94 Resp: 7317

Ion Ratio Lower Upper

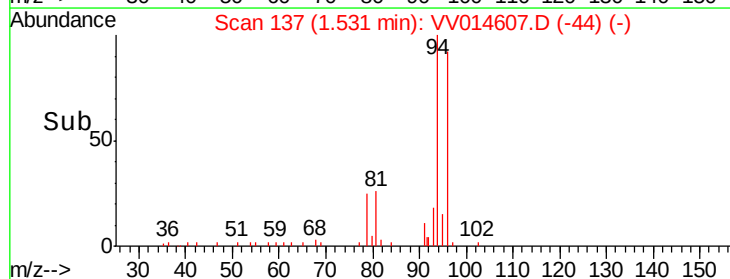
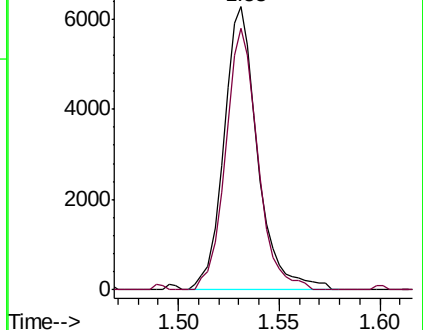
94 100

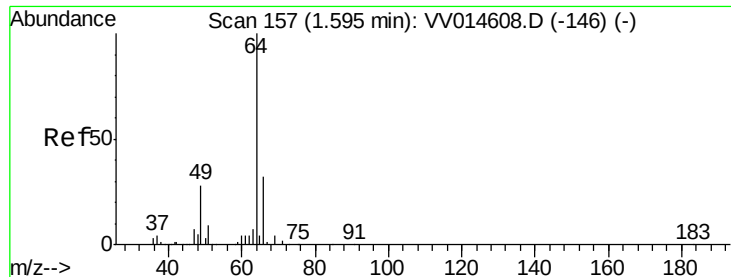
96 92.3 66.4 123.2



Abundance Ion 94.00 (93.70 to 94.70): VV014607.D (-128) (-)

Ion 96.00 (95.70 to 96.70): VV014607.D (-128) (-)





#8

Chloroethane

Concen: 0.663 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

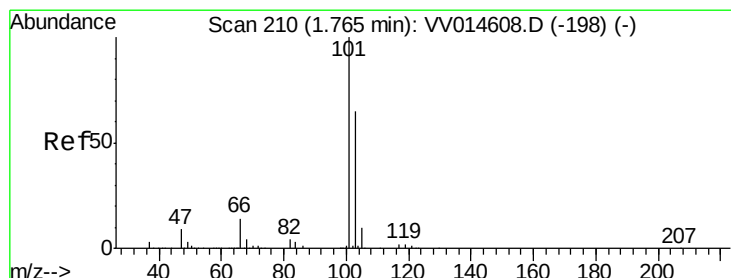
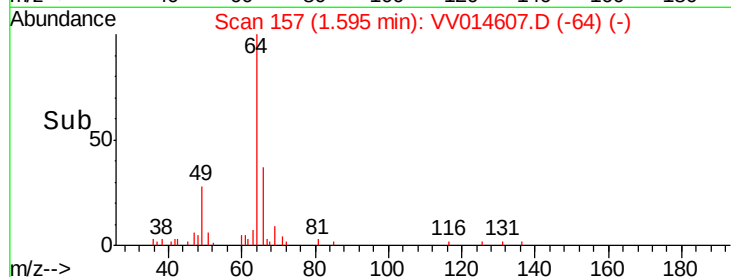
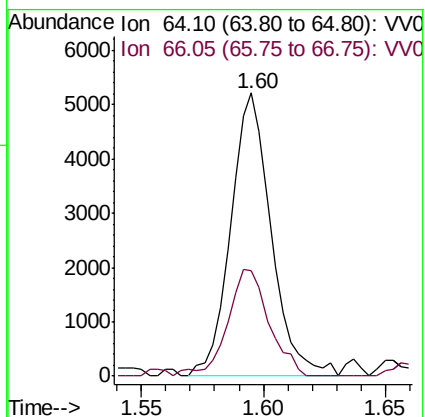
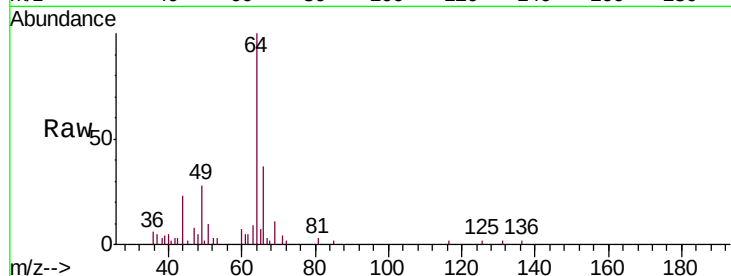
VSTD001702

Tgt Ion: 64 Resp: 5995

Ion Ratio Lower Upper

64 100

66 37.1 22.7 42.3



#9

Trichlorofluoromethane

Concen: 0.998 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV014607.D

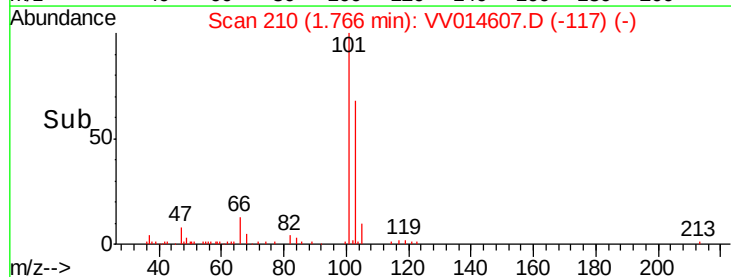
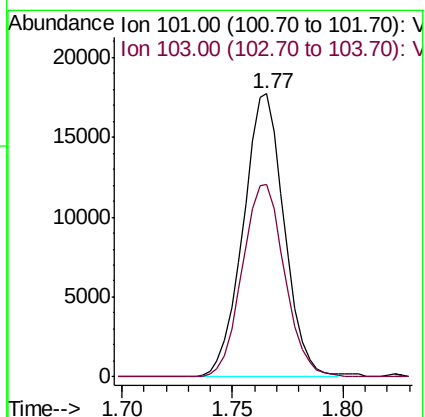
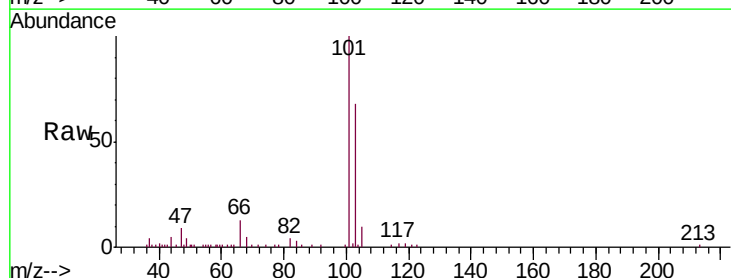
Acq: 19 Feb 2020 15:24

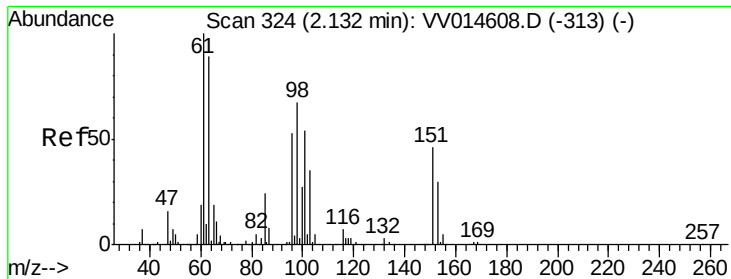
Tgt Ion: 101 Resp: 22950

Ion Ratio Lower Upper

101 100

103 70.2 51.4 77.2





#10

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

Concen: 0.877 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD001702

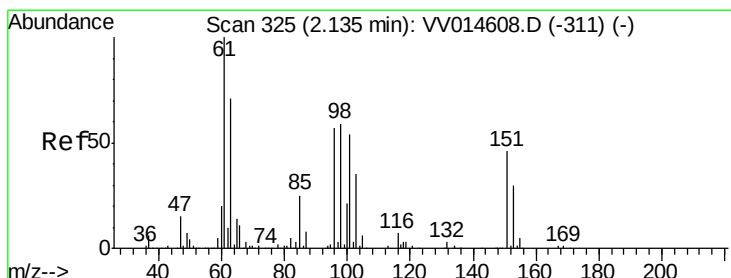
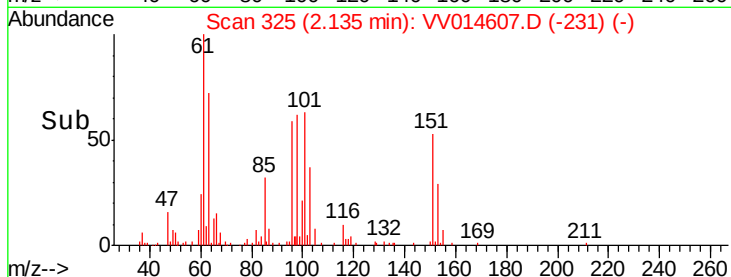
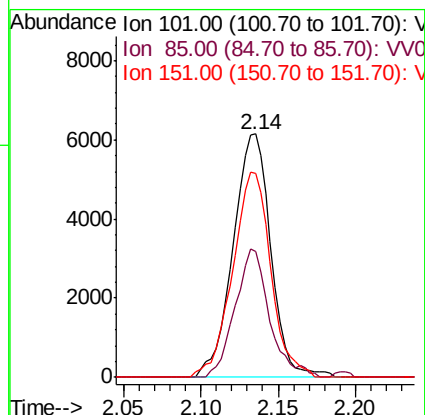
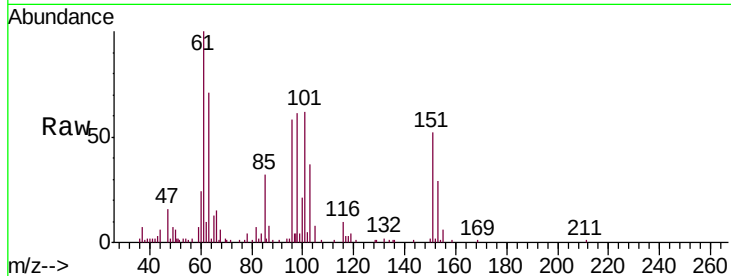
Tgt Ion: 101 Resp: 10395

Ion Ratio Lower Upper

101 100

85 48.0 37.3 55.9

151 85.3 66.3 99.5



#12

1,1-Dichloroethene

Concen: 0.786 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

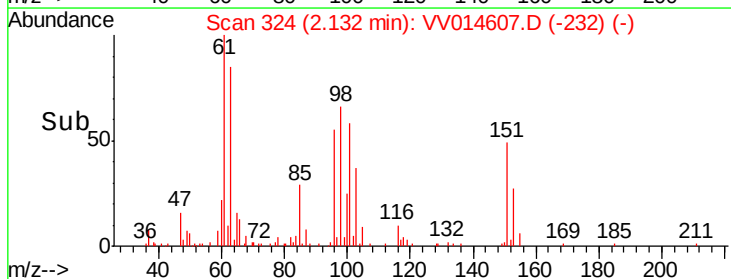
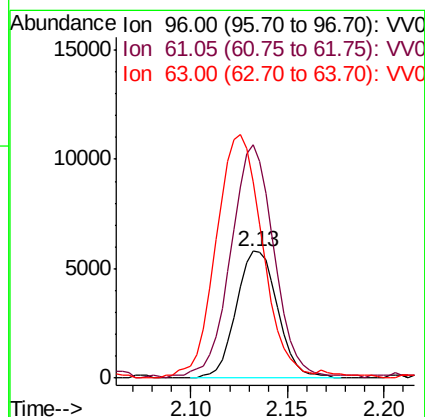
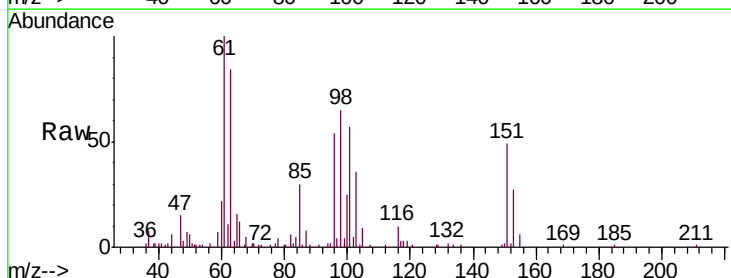
Tgt Ion: 96 Resp: 8631

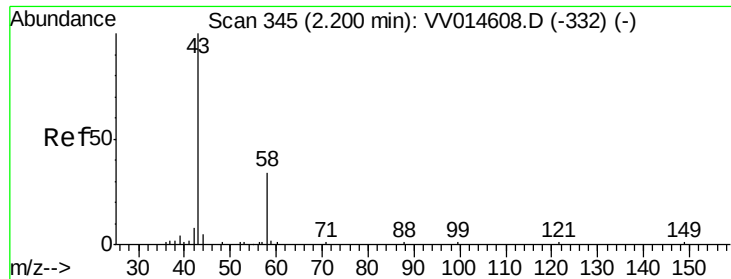
Ion Ratio Lower Upper

96 100

61 184.5 122.4 227.2

63 155.0 86.9 161.5





#13

Acetone

Concen: 4.675 ug/L

RT: 2.20 min Scan# 346

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

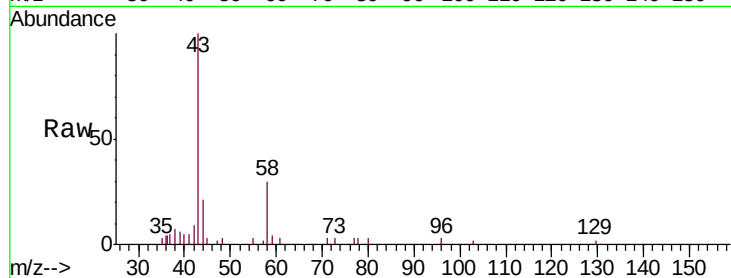
VSTD001702

Tgt Ion: 43 Resp: 11726

Ion Ratio Lower Upper

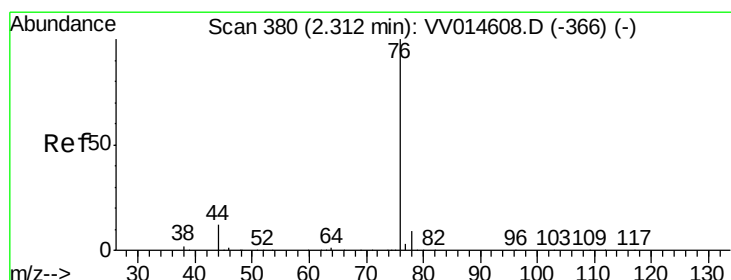
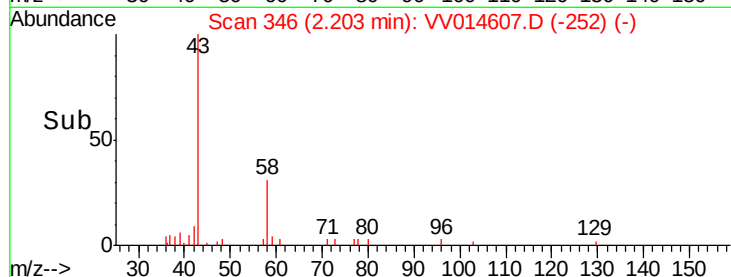
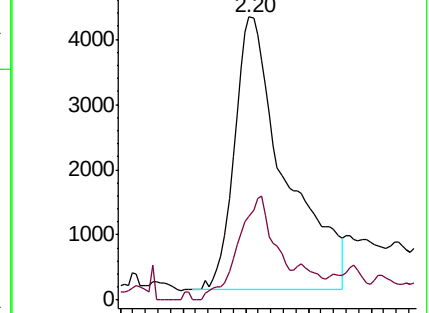
43 100

58 28.4 0.0 61.8



Abundance Ion 43.05 (42.75 to 43.75): VV014607.D (-252) (-)

Ion 58.05 (57.75 to 58.75): VV014607.D (-252) (-)



#14

Carbon disulfide

Concen: 0.904 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV014607.D

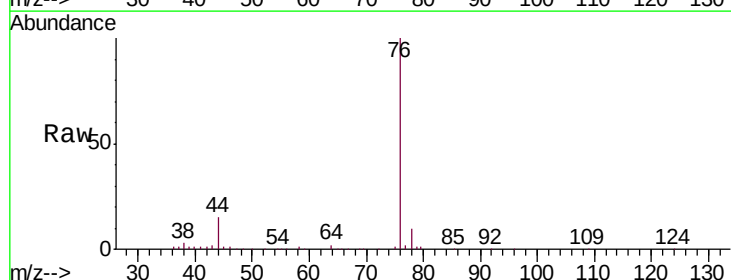
Acq: 19 Feb 2020 15:24

Tgt Ion: 76 Resp: 49659

Ion Ratio Lower Upper

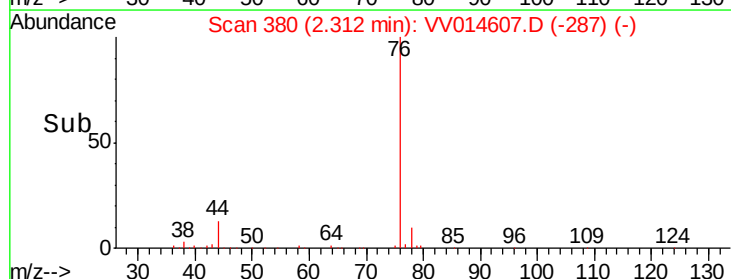
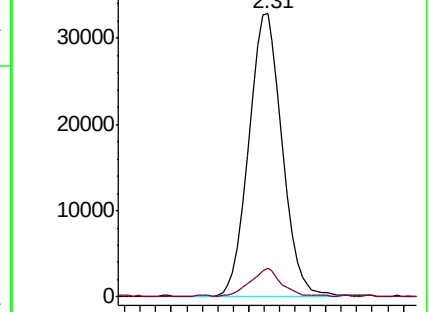
76 100

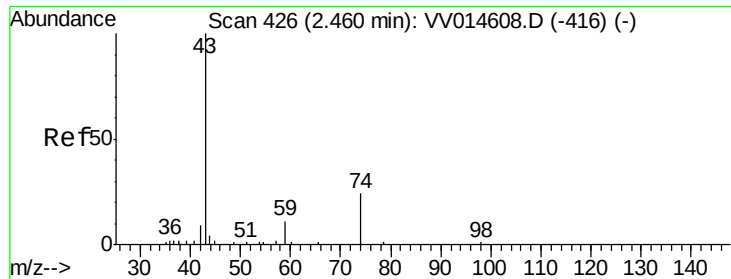
78 10.1 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV014607.D (-287) (-)

Ion 78.00 (77.70 to 78.70): VV014607.D (-287) (-)





#15

Methyl Acetate

Concen: 0.852 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.01 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampled :

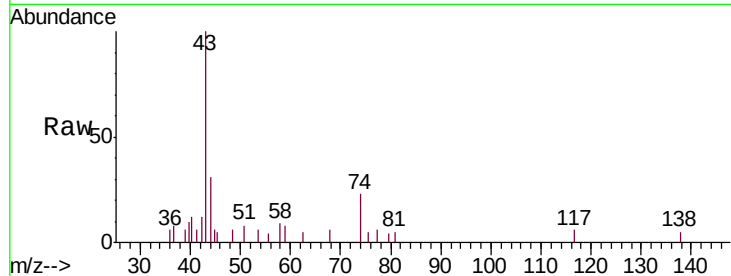
VSTD001702

Tgt Ion: 43 Resp: 4632

Ion Ratio Lower Upper

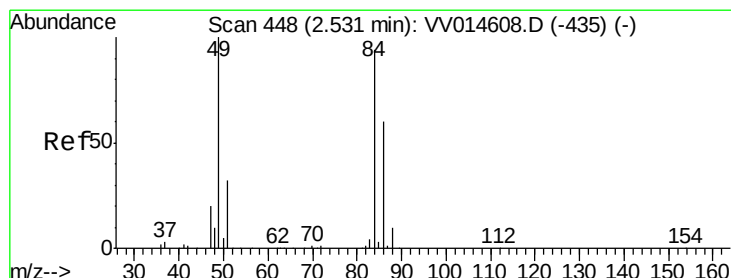
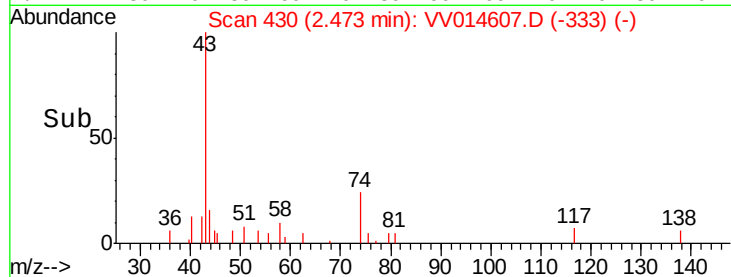
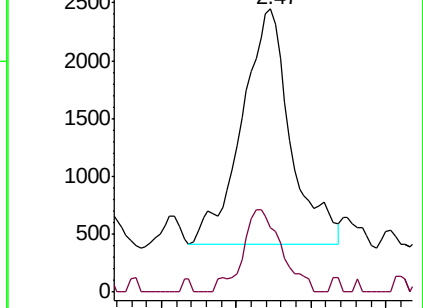
43 100

74 27.8 25.0 37.6



Abundance Ion 43.05 (42.75 to 43.75): VV014607.D (-333) (-)

Ion 74.05 (73.75 to 74.75): VV014607.D (-333) (-)



#16

Methylene chloride

Concen: 0.871 ug/L

RT: 2.53 min Scan# 447

Delta R.T. -0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

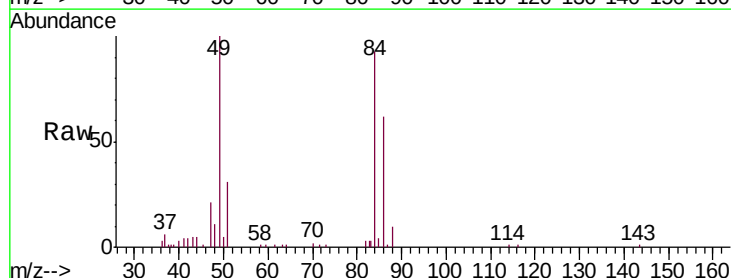
Tgt Ion: 84 Resp: 19714

Ion Ratio Lower Upper

84 100

86 66.3 44.8 83.2

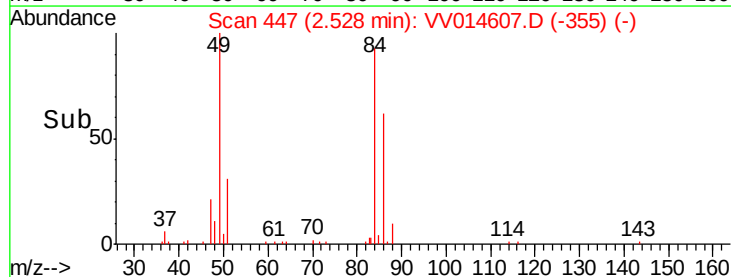
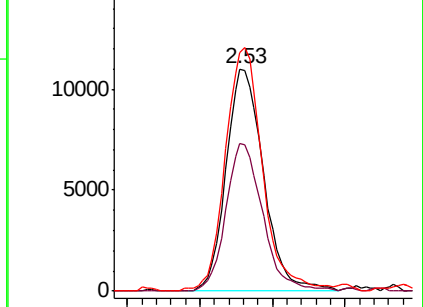
49 107.2 74.8 139.0

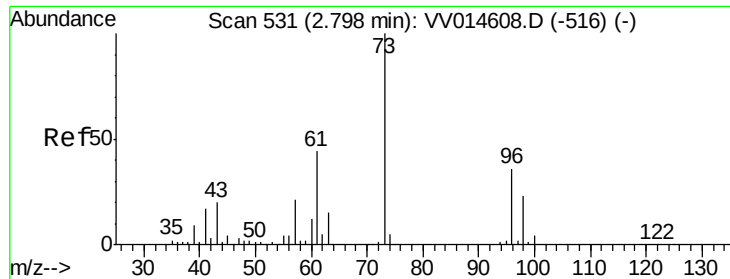


Abundance Ion 84.05 (83.75 to 84.75): VV014607.D (-355) (-)

Ion 86.00 (85.70 to 86.70): VV014607.D (-355) (-)

Ion 49.10 (48.80 to 49.80): VV014607.D (-355) (-)

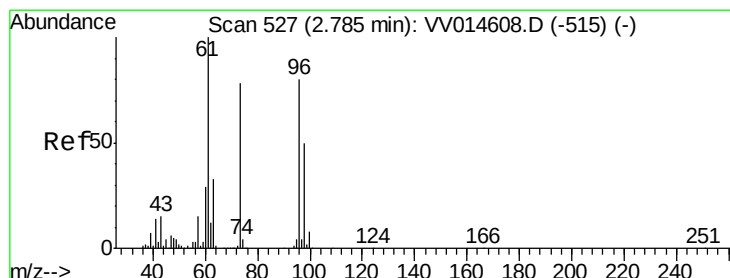
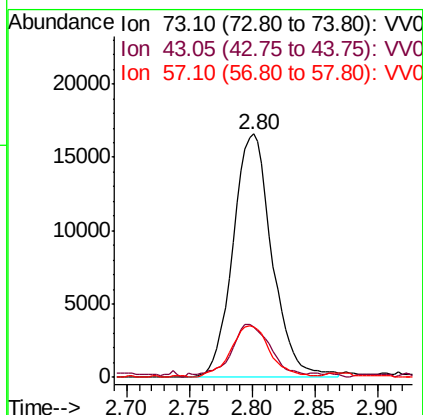
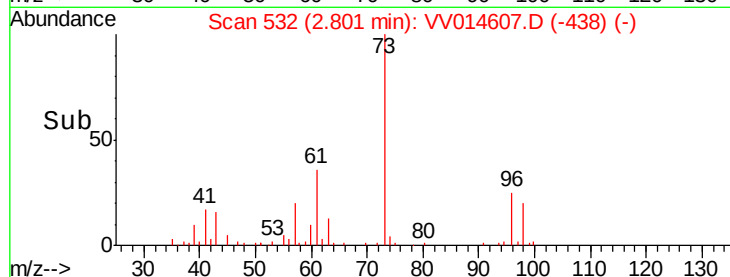
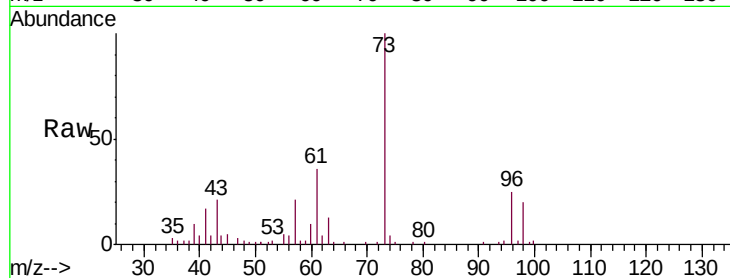




#17
Methyl tert-butyl Ether
Concen: 0.905 ug/L
RT: 2.80 min Scan# 532
Delta R.T. 0.00 min
Lab File: VV014607.D
Acq: 19 Feb 2020 15:24

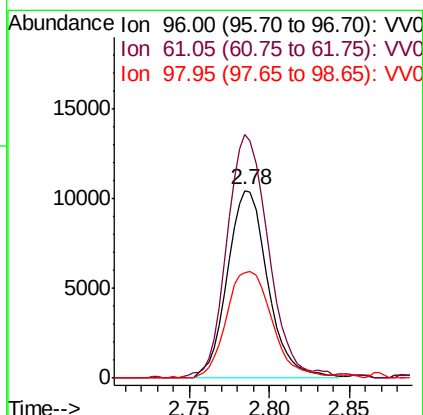
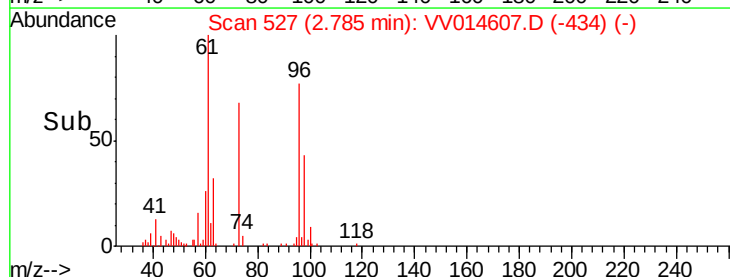
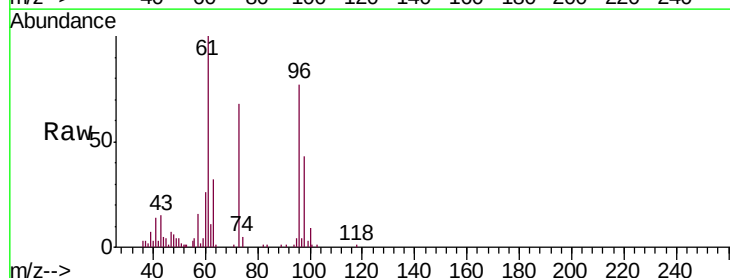
Instrument :
MSVOA_V
ClientSampleId :
VSTD001702

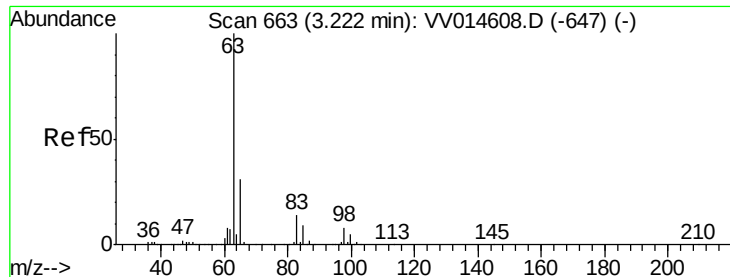
Tgt Ion: 73 Resp: 35990
Ion Ratio Lower Upper
73 100
43 22.3 15.1 22.7
57 21.5 16.0 24.0



#18
trans-1,2-Dichloroethene
Concen: 0.991 ug/L
RT: 2.78 min Scan# 527
Delta R.T. 0.00 min
Lab File: VV014607.D
Acq: 19 Feb 2020 15:24

Tgt Ion: 96 Resp: 18038
Ion Ratio Lower Upper
96 100
61 129.6 87.2 162.0
98 56.2 43.4 80.6

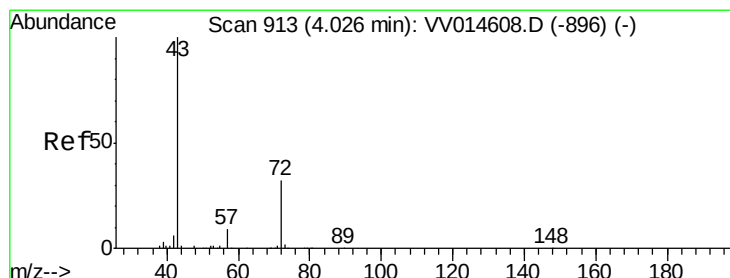
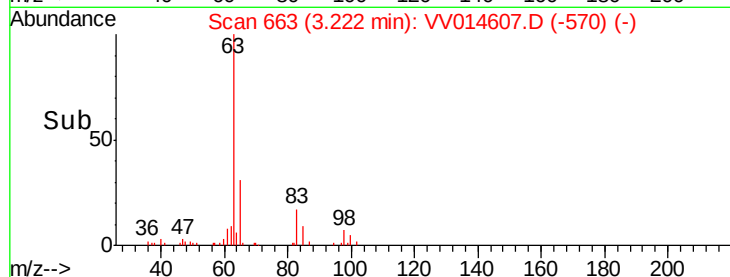
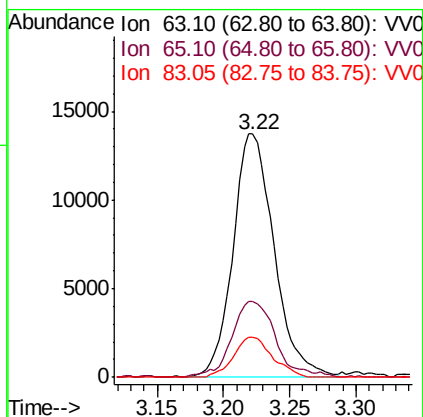
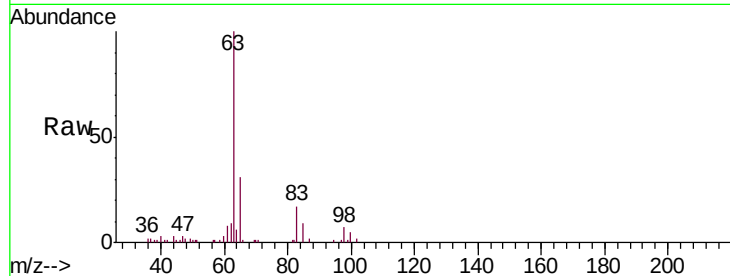




#19
 1,1-Dichloroethane
 Concen: 0.895 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

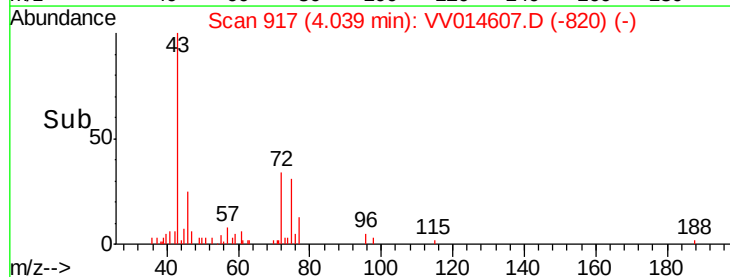
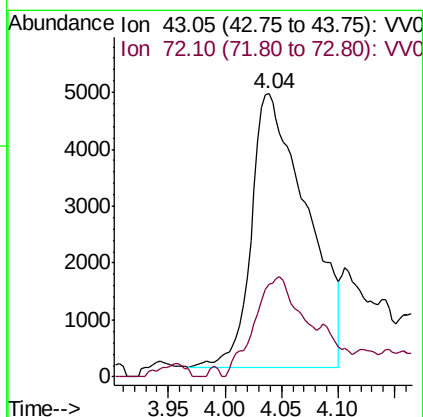
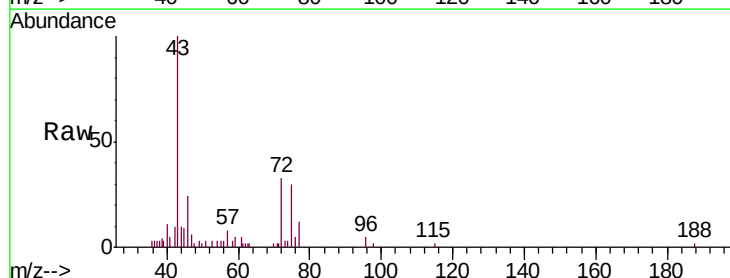
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD001702

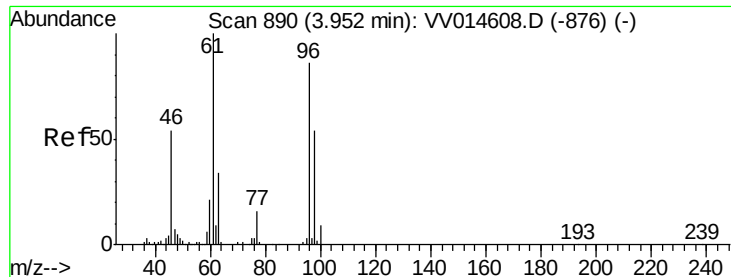
Tgt Ion	Ratio	Lower	Upper
63	100		
65	31.2	21.4	39.8
83	16.7	10.0	18.6



#21
 2-Butanone
 Concen: 4.135 ug/L
 RT: 4.04 min Scan# 917
 Delta R.T. 0.01 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

Tgt Ion	Ratio	Lower	Upper
43	100		
72	31.2	11.5	34.5



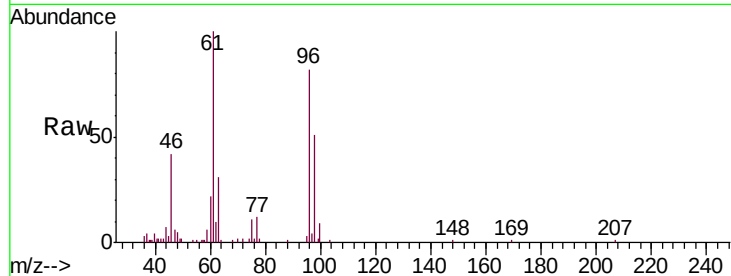


#22

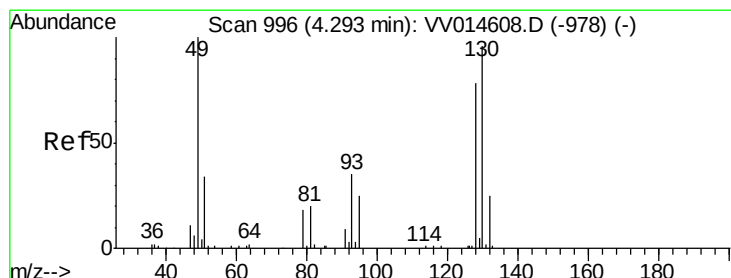
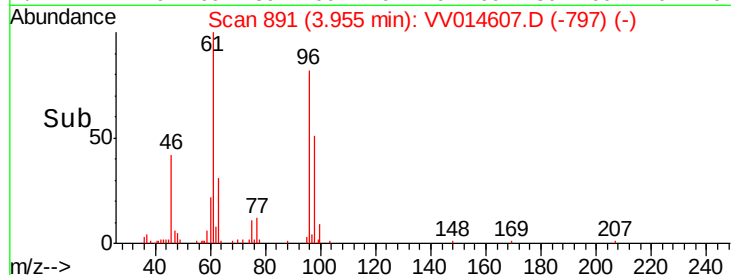
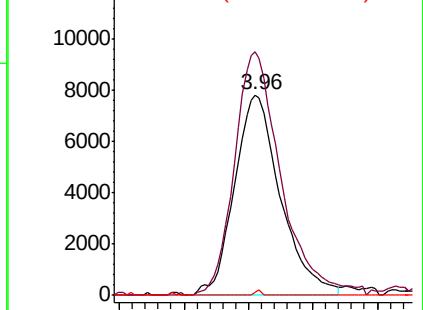
cis-1,2-Dichloroethene
Concen: 1.009 ug/L
RT: 3.96 min Scan# 891
Delta R.T. 0.00 min
Lab File: VV014607.D
Acq: 19 Feb 2020 15:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD001702

Tgt Ion: 96 Resp: 19415
Ion Ratio Lower Upper
96 100
61 121.4 81.5 151.5
68 1.4 0.0 0.0#



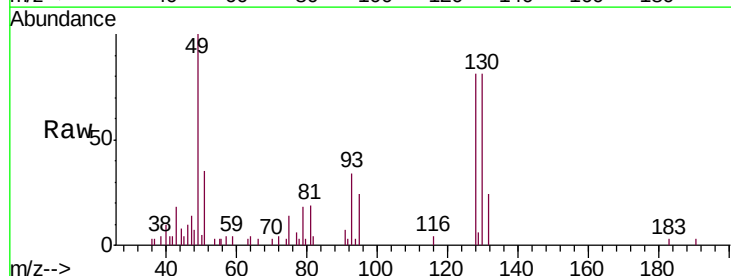
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



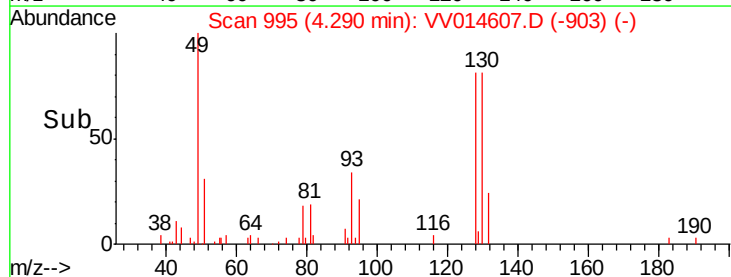
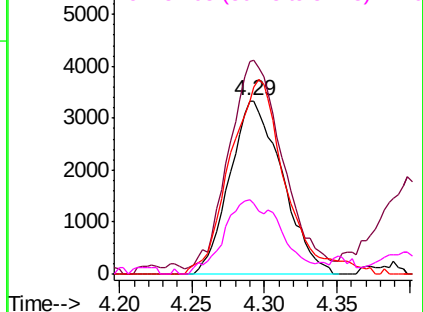
#23

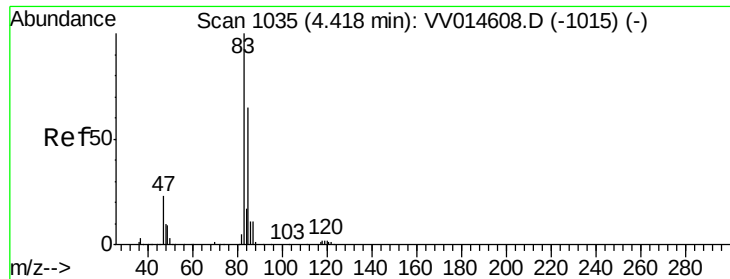
Bromochloromethane
Concen: 1.129 ug/L
RT: 4.29 min Scan# 995
Delta R.T. -0.00 min
Lab File: VV014607.D
Acq: 19 Feb 2020 15:24

Tgt Ion: 128 Resp: 8388
Ion Ratio Lower Upper
128 100
49 122.9 90.2 167.4
130 99.9 85.6 159.0
51 42.9 35.2 52.8



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0





#25

Chloroform

Concen: 1.348 ug/L

RT: 4.42 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

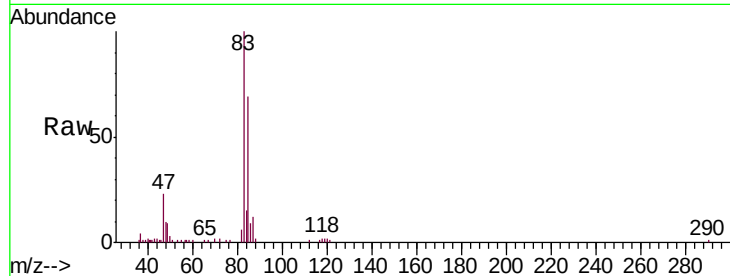
VSTD001702

Tgt Ion: 83 Resp: 46644

Ion Ratio Lower Upper

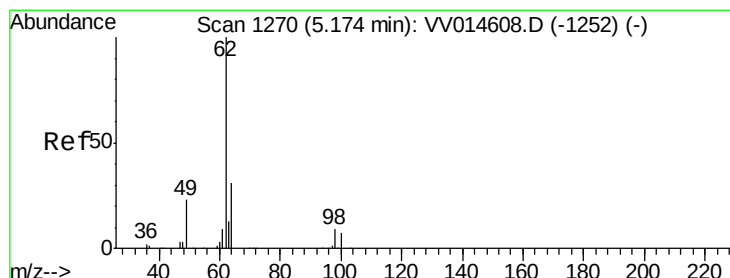
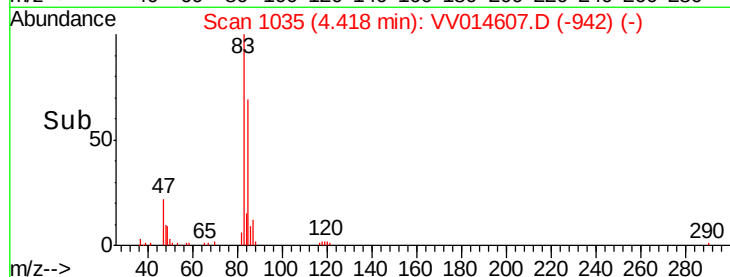
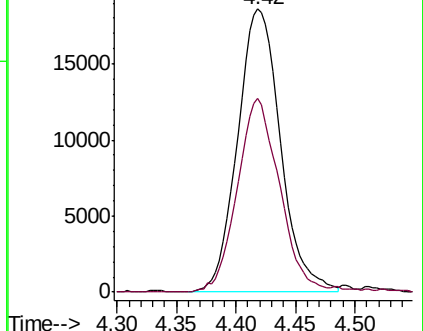
83 100

85 68.6 45.8 85.2



Abundance Ion 83.05 (82.75 to 83.75): VV014607.D (-1015) (-)

Ion 85.00 (84.70 to 85.70): VV014607.D (-1015) (-)



#27

1,2-Dichloroethane

Concen: 0.949 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VV014607.D

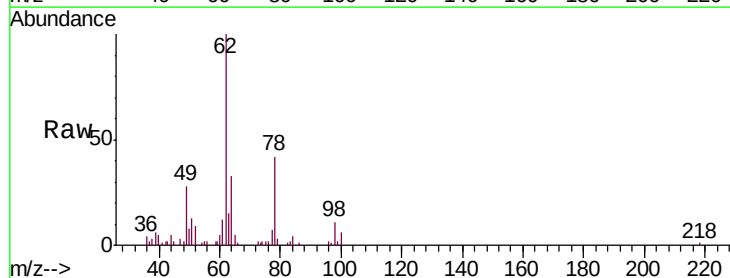
Acq: 19 Feb 2020 15:24

Tgt Ion: 62 Resp: 17647

Ion Ratio Lower Upper

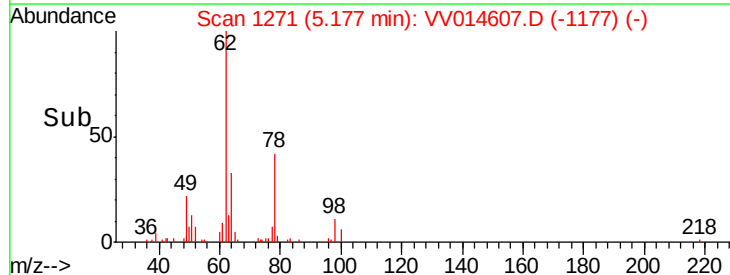
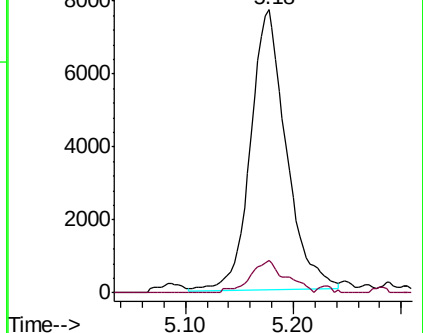
62 100

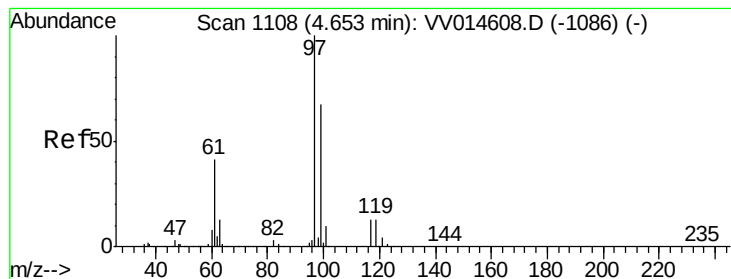
98 11.4 7.0 10.4#



Abundance Ion 62.00 (61.70 to 62.70): VV014607.D (-1177) (-)

Ion 98.05 (97.75 to 98.75): VV014607.D (-1177) (-)





#29

1,1,1-Trichloroethane

Concen: 1.021 ug/L

RT: 4.65 min Scan# 1107

Delta R.T. -0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD001702

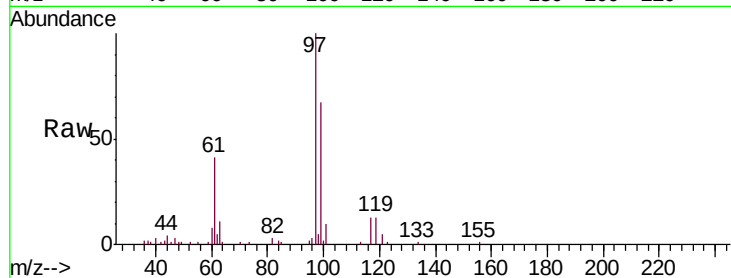
Tgt Ion: 97 Resp: 30092

Ion Ratio Lower Upper

97 100

99 63.8 52.1 78.1

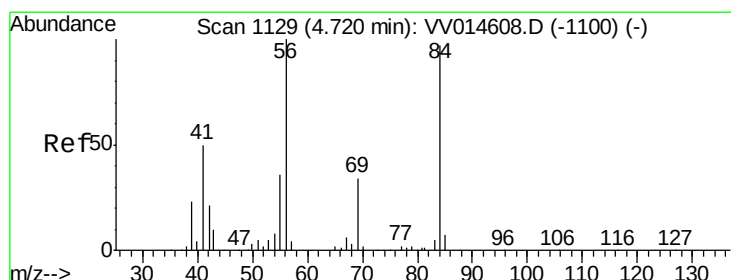
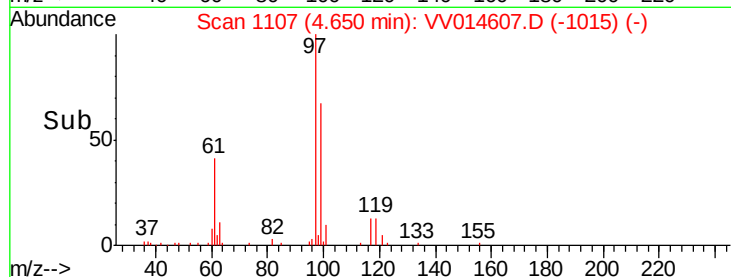
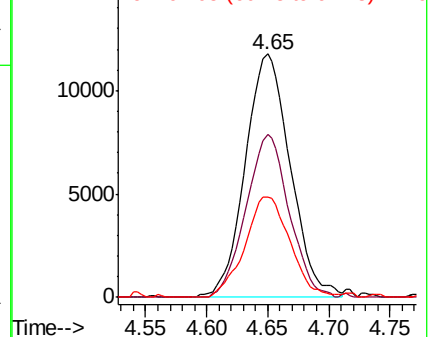
61 41.3 32.8 49.2



Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0



#30

Cyclohexane

Concen: 0.830 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

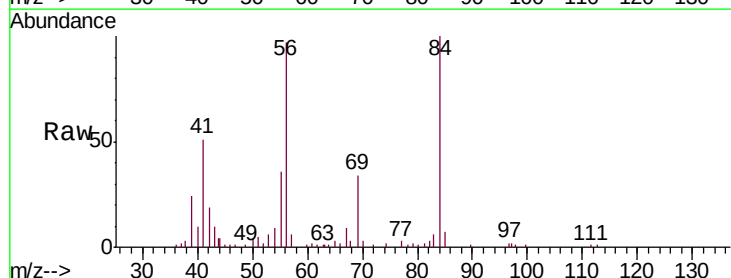
Tgt Ion: 56 Resp: 28516

Ion Ratio Lower Upper

56 100

69 33.8 26.7 40.1

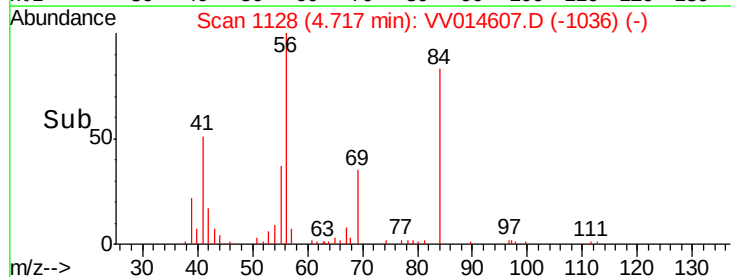
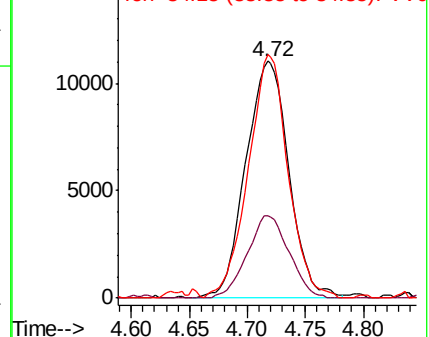
84 95.2 75.9 113.9

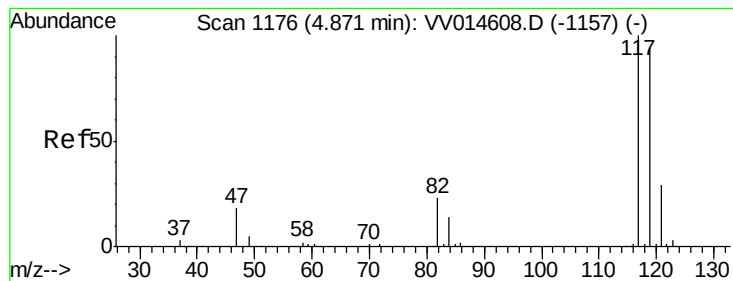


Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 0.986 ug/L

RT: 4.87 min Scan# 1174

Delta R.T. -0.01 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

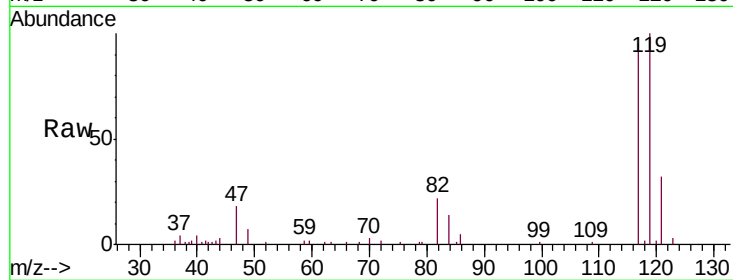
VSTD001702

Tgt Ion:117 Resp: 25255

Ion Ratio Lower Upper

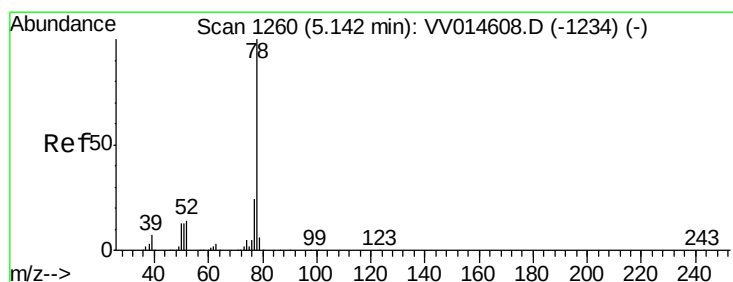
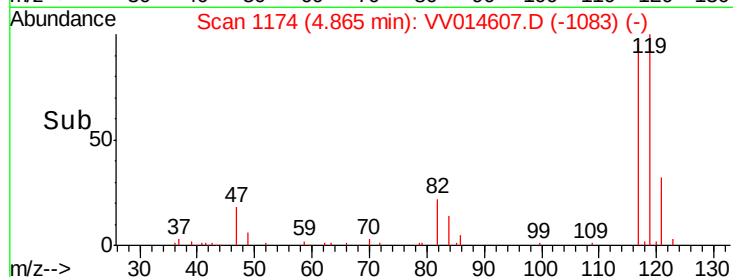
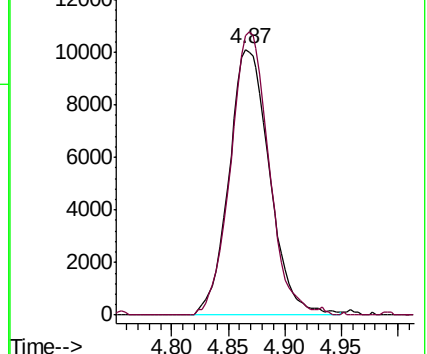
117 100

119 100.8 76.5 114.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.904 ug/L

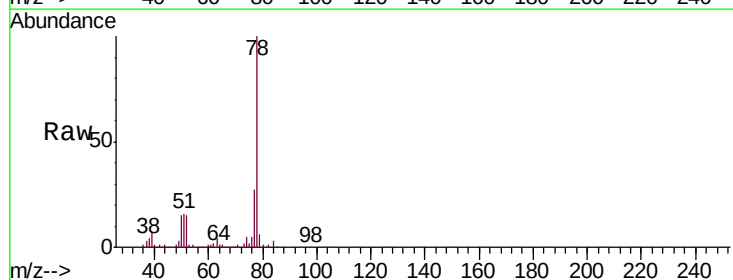
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

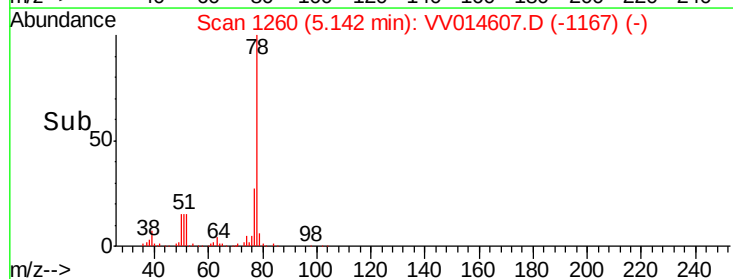
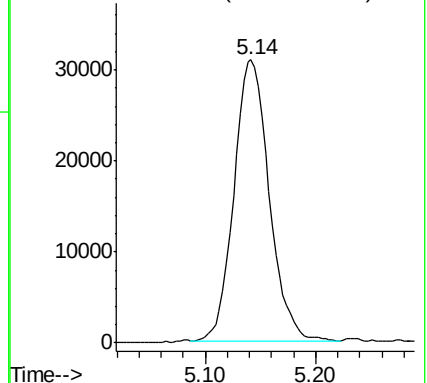
Lab File: VV014607.D

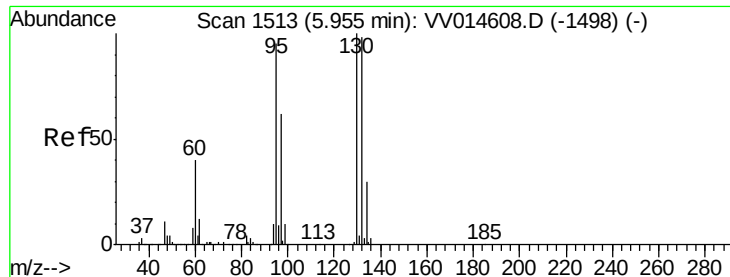
Acq: 19 Feb 2020 15:24

Tgt Ion: 78 Resp: 68063



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 1.026 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD001702

Tgt Ion: 95 Resp: 20298

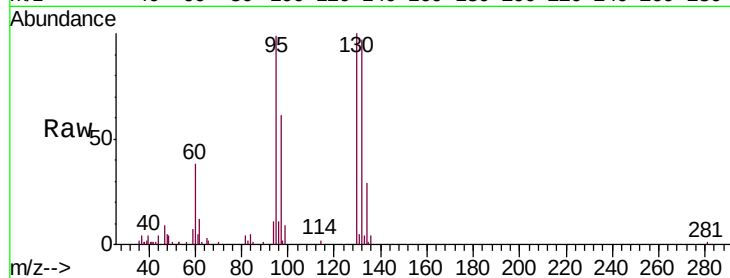
Ion Ratio Lower Upper

95 100

97 61.9 45.4 84.2

132 98.2 72.4 134.4

130 101.4 73.7 136.9

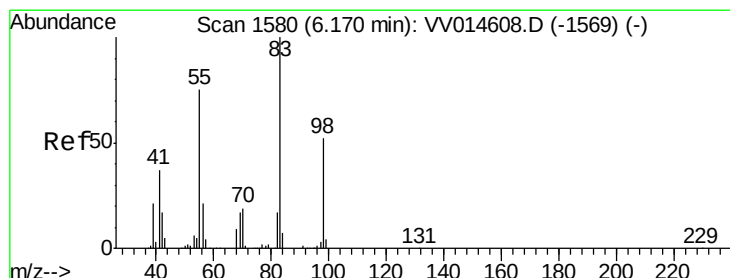
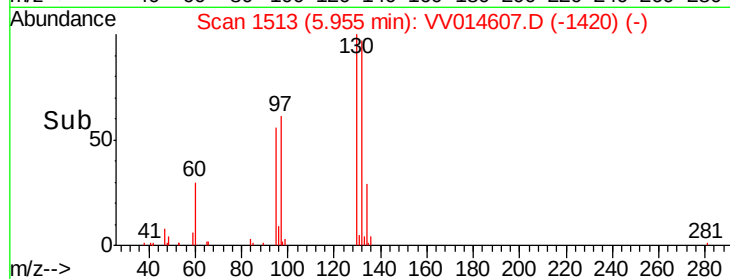
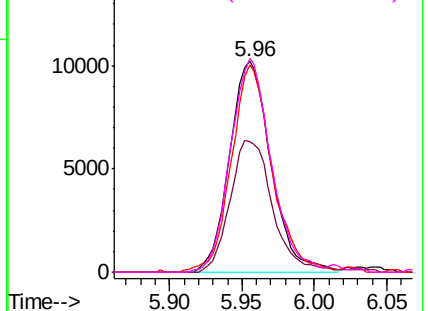


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 0.927 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

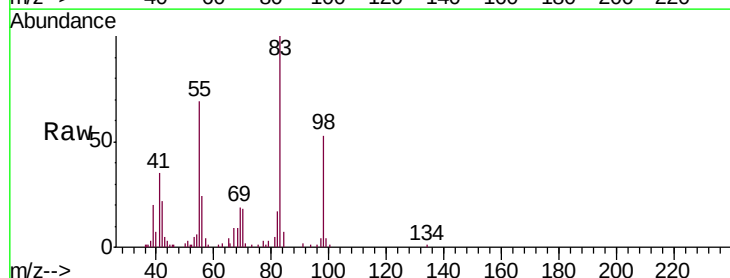
Tgt Ion: 83 Resp: 32089

Ion Ratio Lower Upper

83 100

55 69.9 57.1 85.7

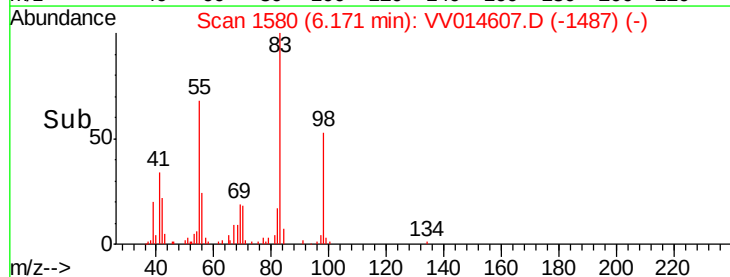
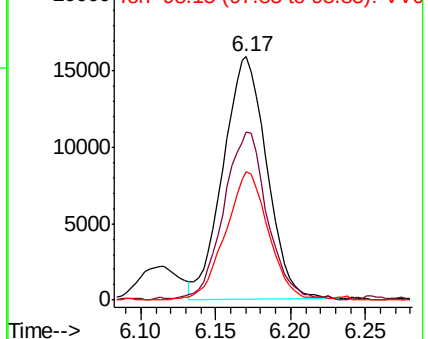
98 52.2 40.2 60.2

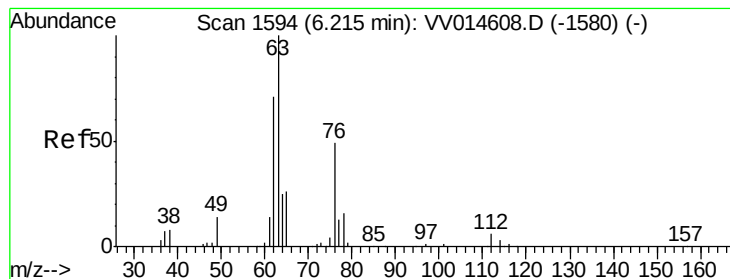


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0





#37

1,2-Dichloropropane

Concen: 0.885 ug/L

RT: 6.22 min Scan# 1594

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

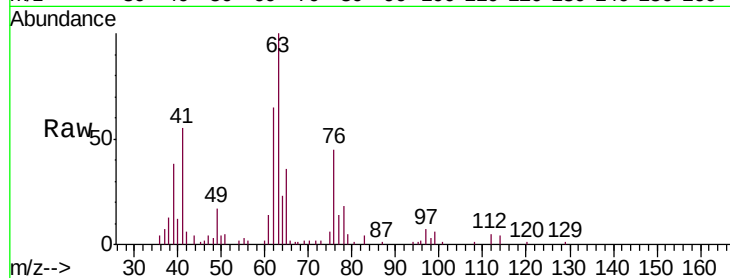
VSTD001702

Tgt Ion: 63 Resp: 15984

Ion Ratio Lower Upper

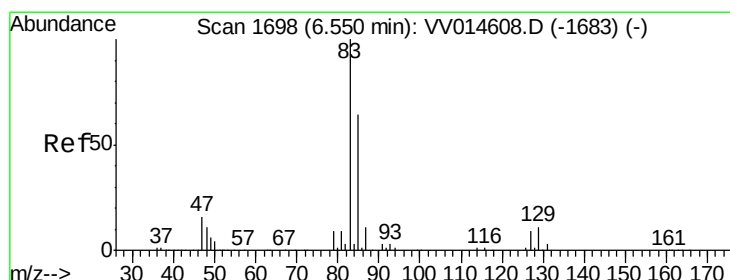
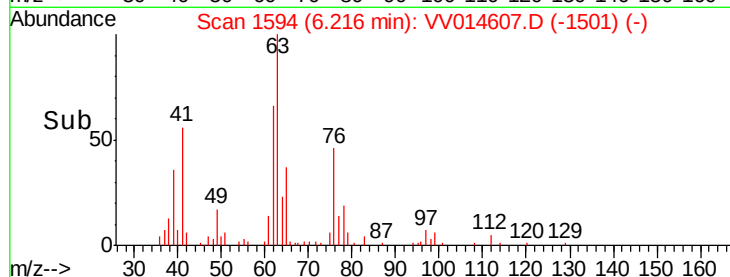
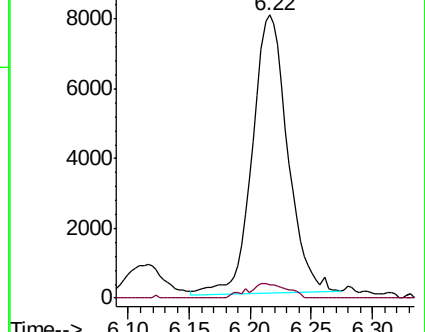
63 100

112 5.9 4.3 6.5



Abundance Ion 63.10 (62.80 to 63.80): VV014607.D (-1501) (-)

Ion 112.10 (111.80 to 112.80): VV014607.D (-1501) (-)



#38

Bromodichloromethane

Concen: 0.975 ug/L

RT: 6.55 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

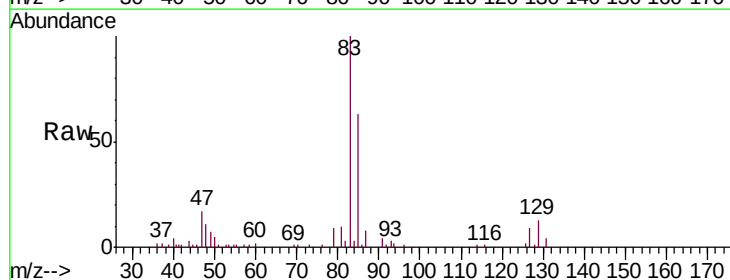
Tgt Ion: 83 Resp: 22867

Ion Ratio Lower Upper

83 100

85 63.0 45.2 84.0

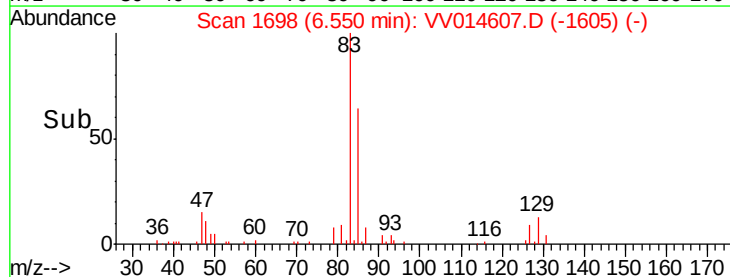
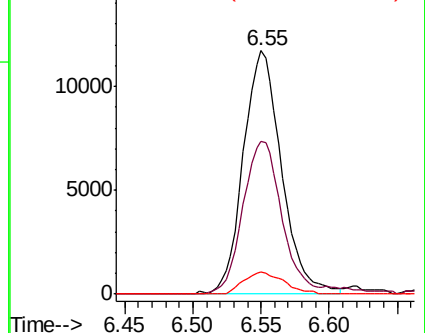
127 9.0 7.0 10.6

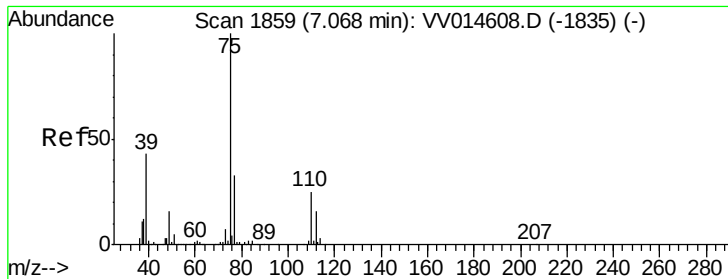


Abundance Ion 82.95 (82.65 to 83.65): VV014607.D (-1605) (-)

Ion 85.00 (84.70 to 85.70): VV014607.D (-1605) (-)

Ion 126.90 (126.60 to 127.60): VV014607.D (-1605) (-)



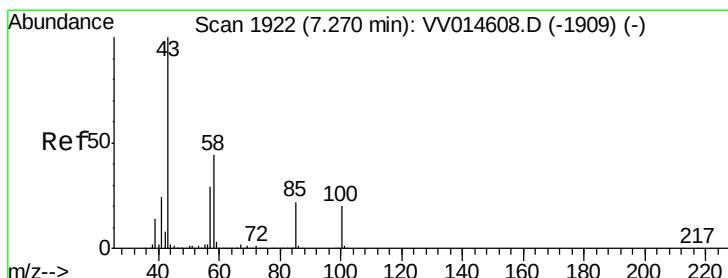
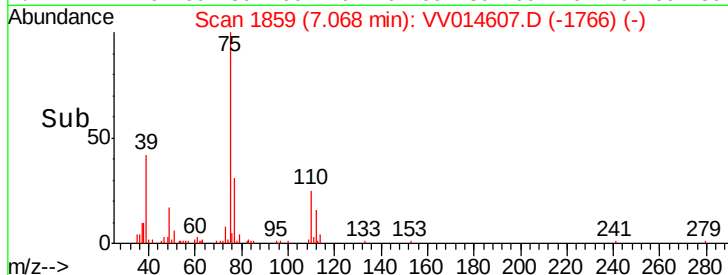
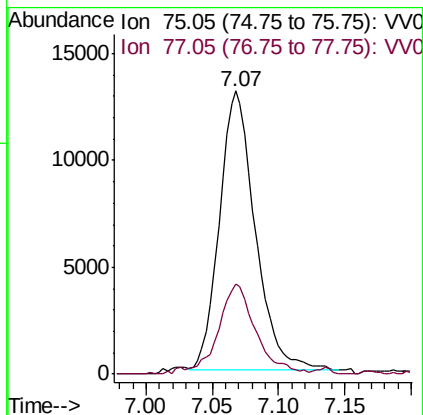
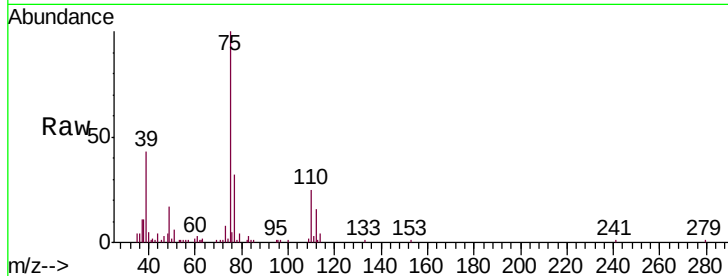


#39

cis-1,3-Dichloropropene
 Concen: 0.842 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD001702

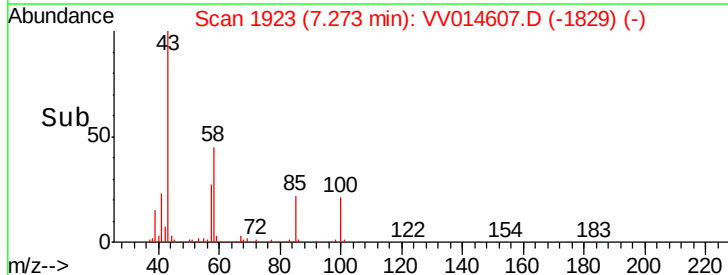
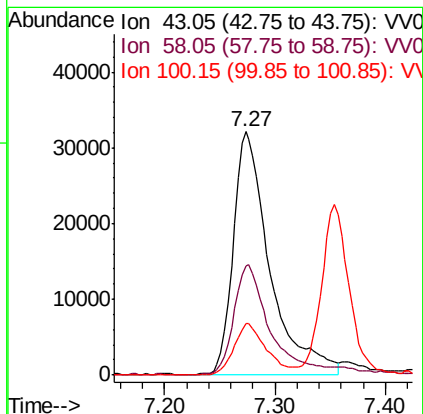
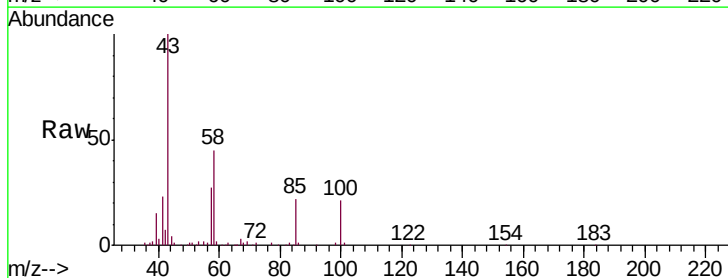
Tgt Ion: 75 Resp: 24272
 Ion Ratio Lower Upper
 75 100
 77 32.0 22.8 42.4

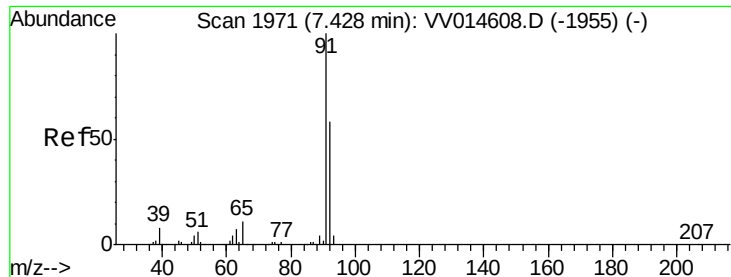


#40

4-Methyl-2-pentanone
 Concen: 7.017 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

Tgt Ion: 43 Resp: 73830
 Ion Ratio Lower Upper
 43 100
 58 47.3 36.2 54.2
 100 18.9 14.7 22.1





#42

Toluene

Concen: 0.919 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

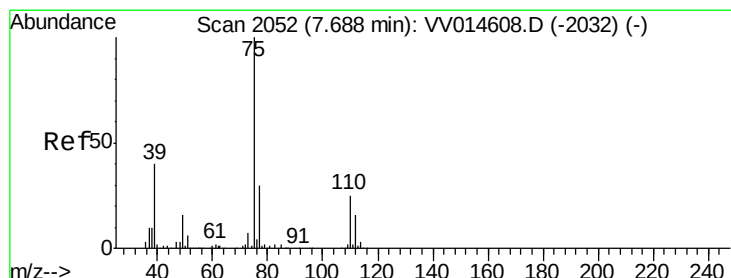
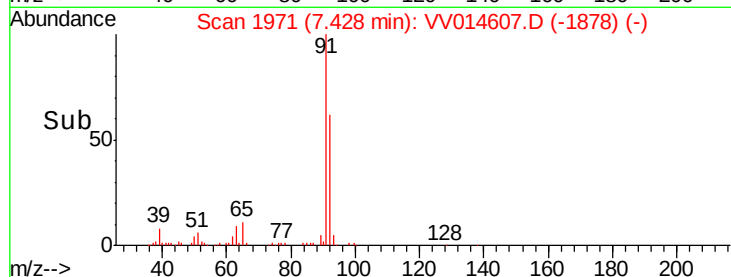
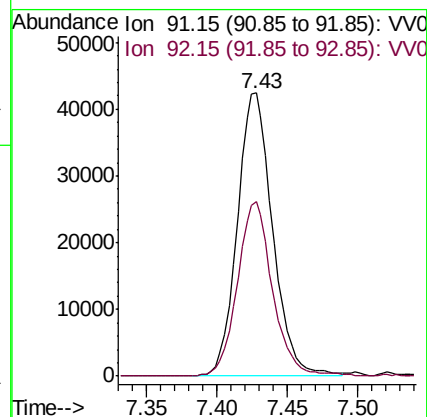
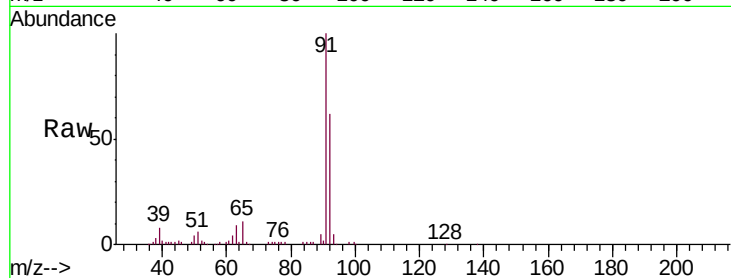
VSTD001702

Tgt Ion: 91 Resp: 74365

Ion Ratio Lower Upper

91 100

92 61.8 40.7 75.5



#44

trans-1,3-Dichloropropene

Concen: 0.868 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV014607.D

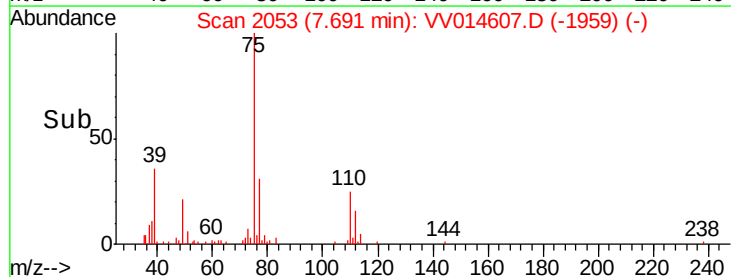
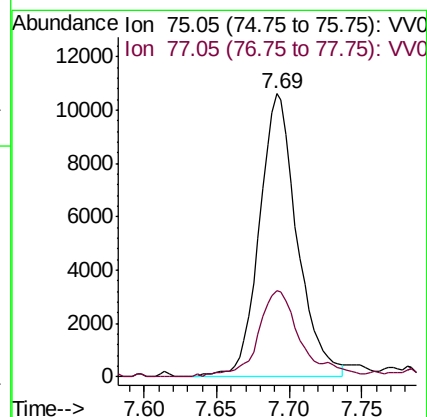
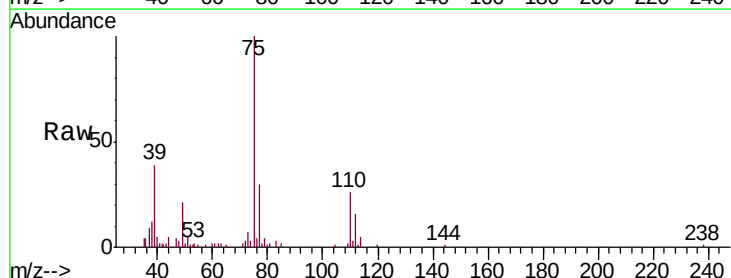
Acq: 19 Feb 2020 15:24

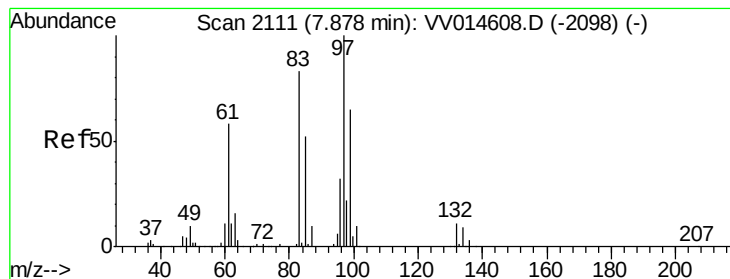
Tgt Ion: 75 Resp: 19319

Ion Ratio Lower Upper

75 100

77 30.4 21.0 39.0





#45

1,1,2-Trichloroethane

Concen: 1.039 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD001702

Tgt Ion: 97 Resp: 12346

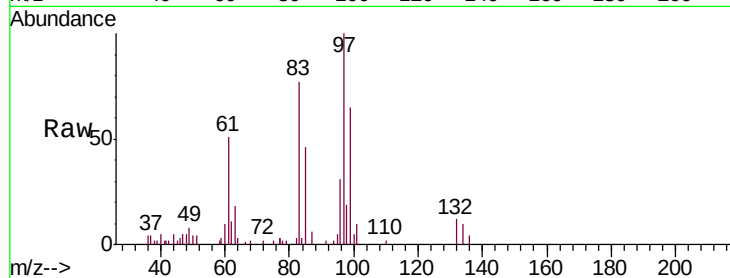
Ion Ratio Lower Upper

97 100

99 65.0 45.2 84.0

83 77.4 58.3 108.3

85 46.1 36.3 67.5

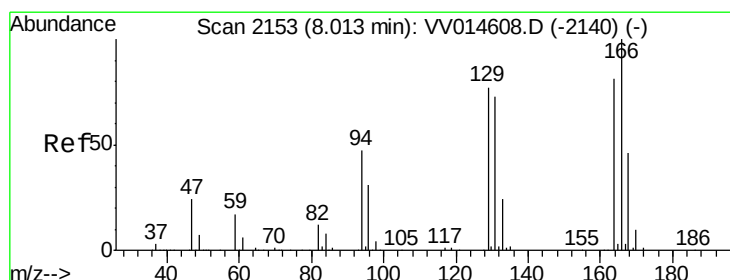
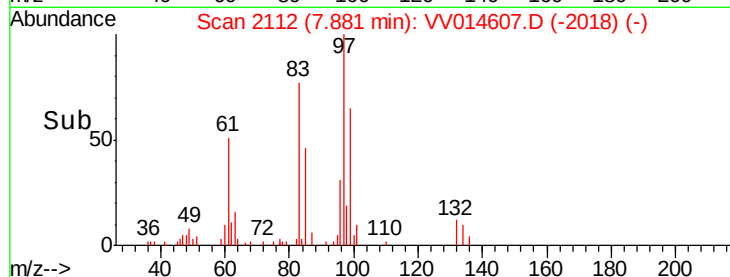
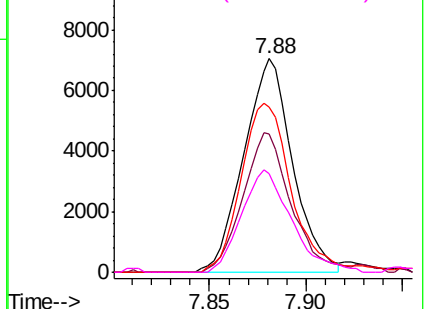


Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 1.139 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Tgt Ion: 164 Resp: 16002

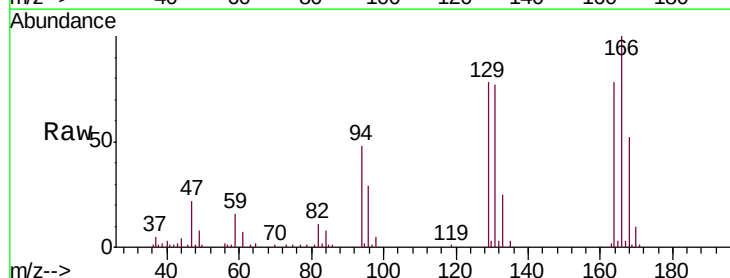
Ion Ratio Lower Upper

164 100

129 100.0 67.0 124.4

131 97.7 63.6 118.2

166 127.7 86.7 161.1

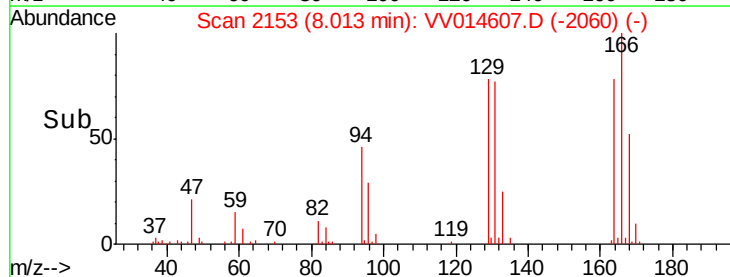
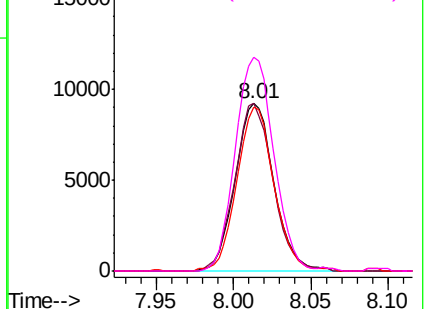


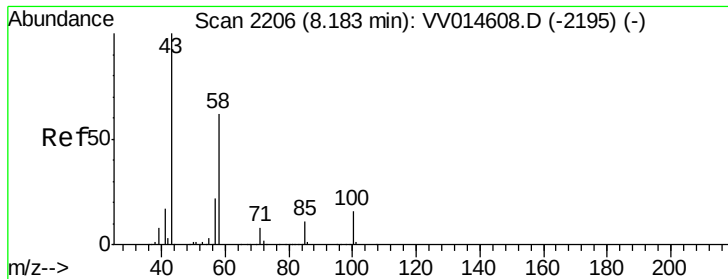
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

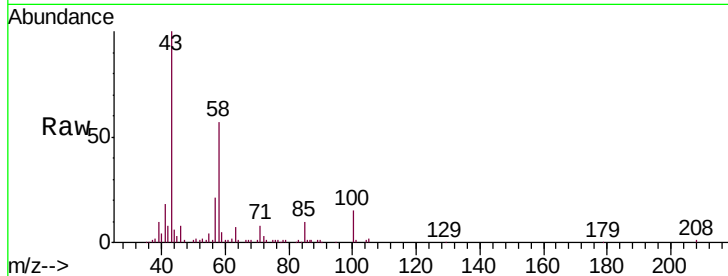




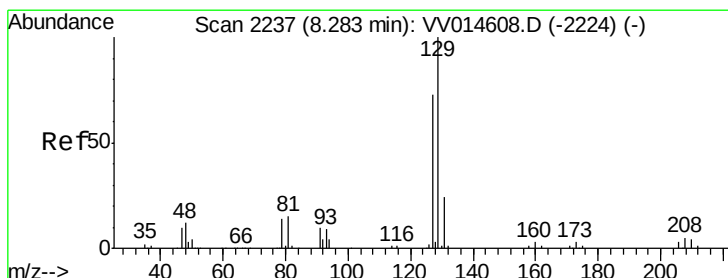
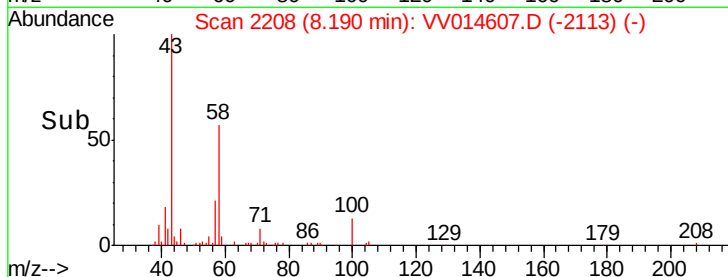
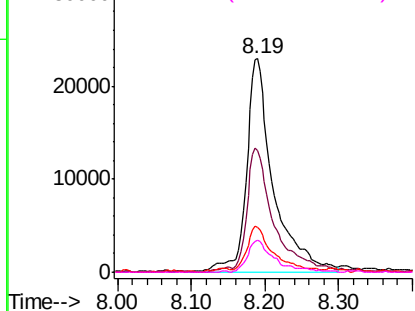
#48
2-Hexanone
Concen: 8.133 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.01 min
Lab File: VV014607.D
Acq: 19 Feb 2020 15:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD001702

Tgt Ion: 43 Resp: 58639
Ion Ratio Lower Upper
43 100
58 52.5 48.6 73.0
57 18.2 17.7 26.5
100 14.5 12.8 19.2

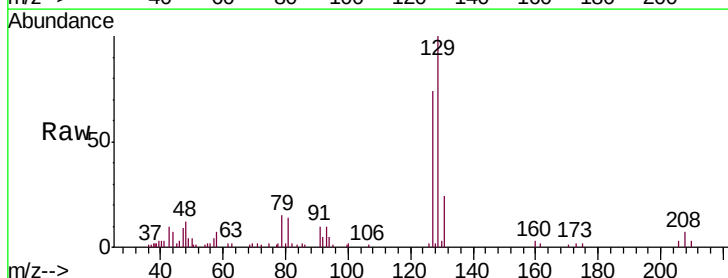


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

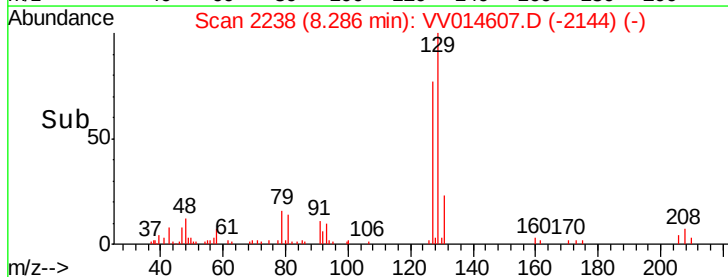
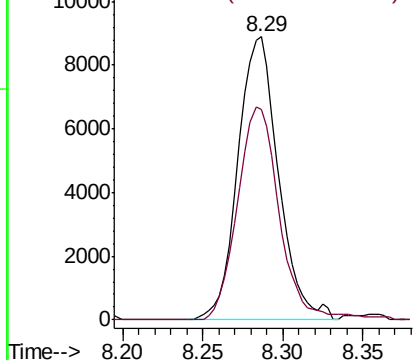


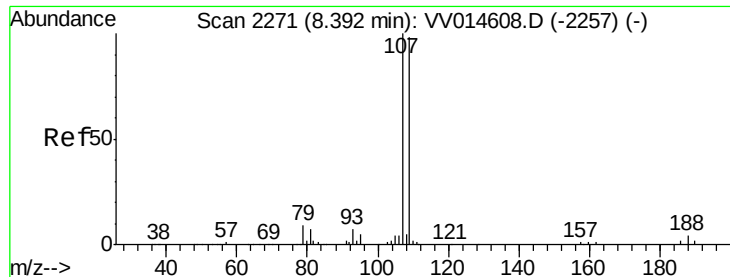
#49
Dibromochloromethane
Concen: 1.036 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014607.D
Acq: 19 Feb 2020 15:24

Tgt Ion: 129 Resp: 15348
Ion Ratio Lower Upper
129 100
127 74.2 50.9 94.5



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#50

1,2-Dibromoethane

Concen: 1.064 ug/L

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD001702

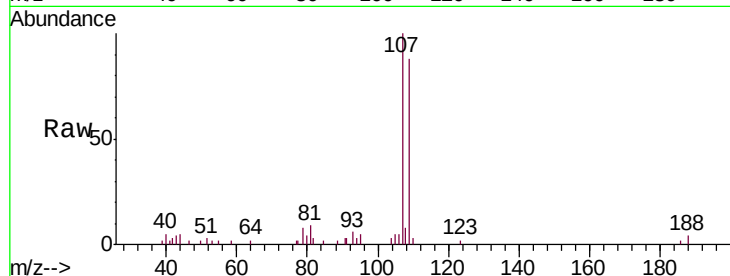
Tgt Ion:107 Resp: 11745

Ion Ratio Lower Upper

107 100

109 88.3 68.7 127.5

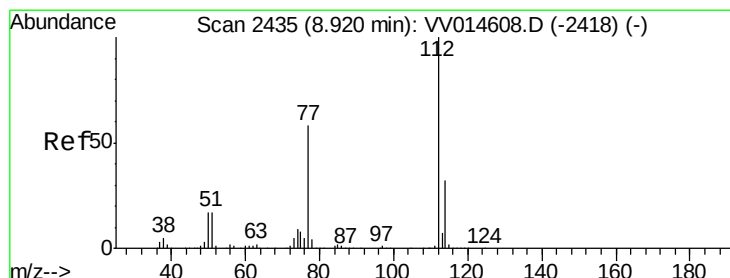
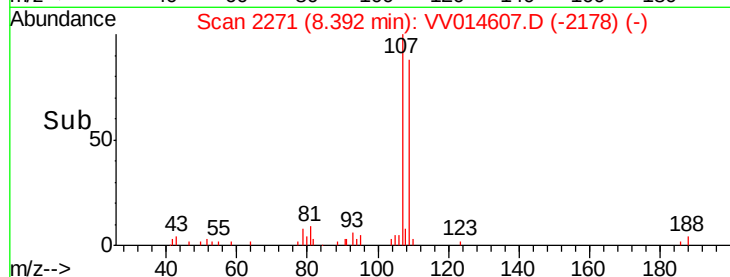
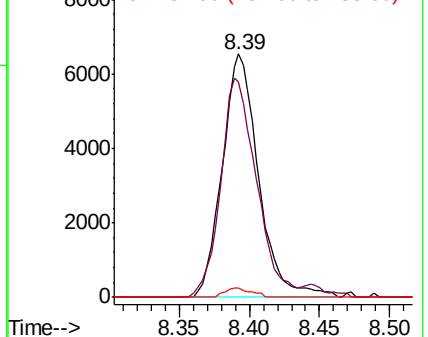
188 3.8 2.9 4.3



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 1.028 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

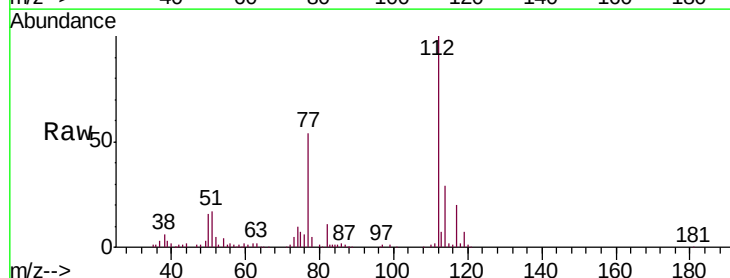
Tgt Ion:112 Resp: 51370

Ion Ratio Lower Upper

112 100

114 29.1 22.5 41.9

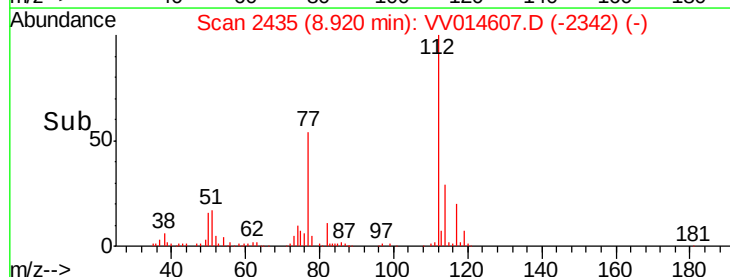
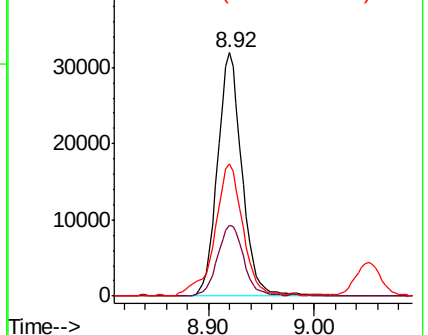
77 54.1 46.6 70.0

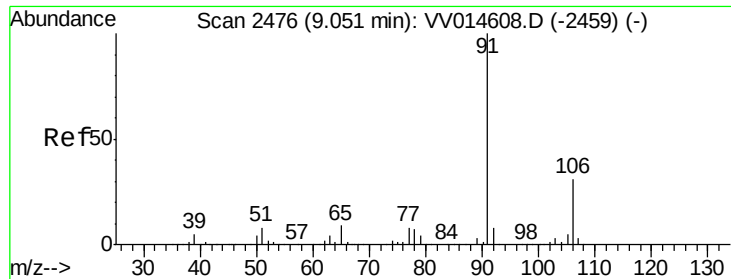


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 0.951 ug/L

RT: 9.05 min Scan# 2475

Delta R.T. -0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

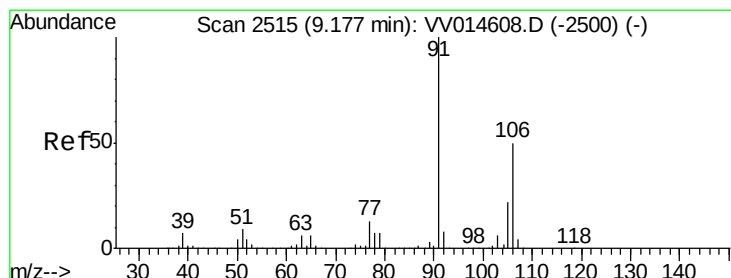
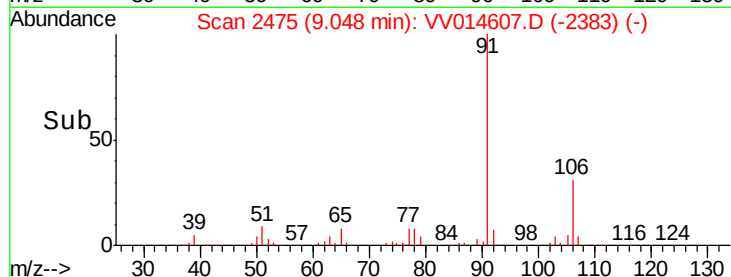
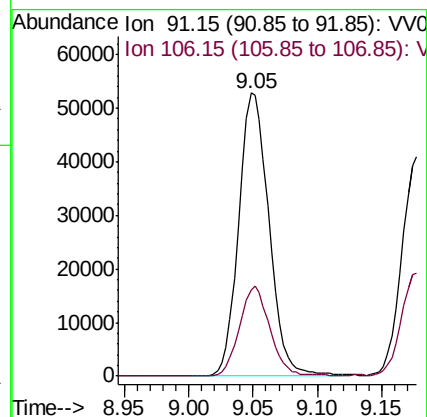
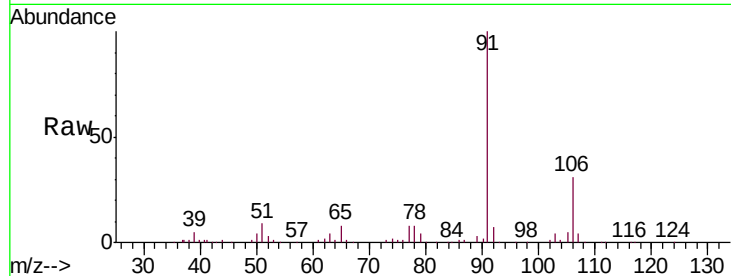
VSTD001702

Tgt Ion: 91 Resp: 86423

Ion Ratio Lower Upper

91 100

106 30.6 21.8 40.6



#53

m,p-xylene

Concen: 0.953 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014607.D

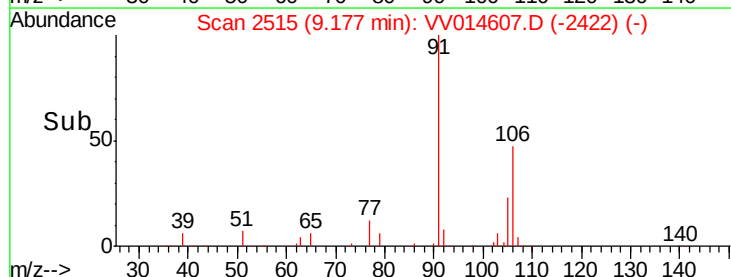
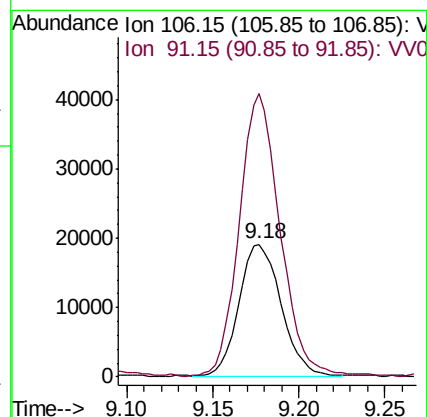
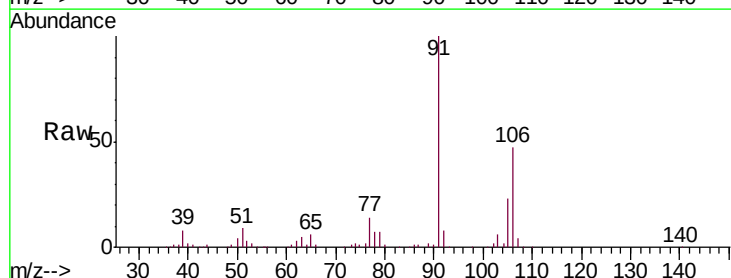
Acq: 19 Feb 2020 15:24

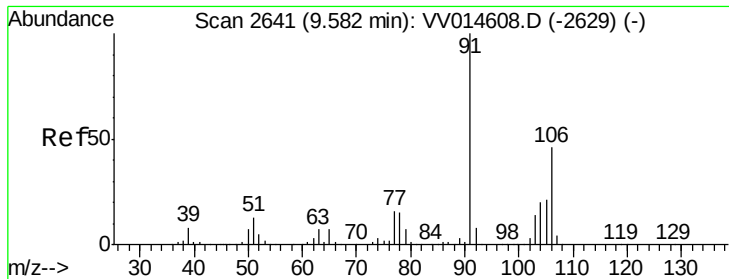
Tgt Ion: 106 Resp: 32250

Ion Ratio Lower Upper

106 100

91 212.9 139.6 259.2





#54

o-xylene

Concen: 0.962 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

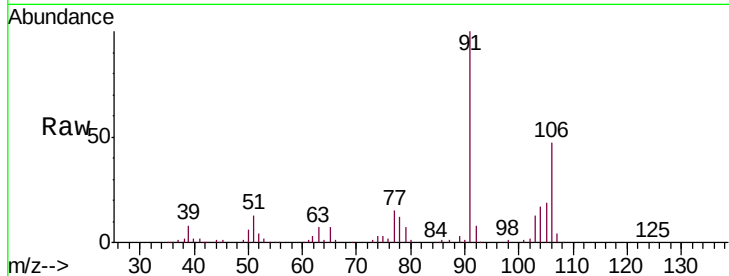
VSTD001702

Tgt Ion:106 Resp: 31475

Ion Ratio Lower Upper

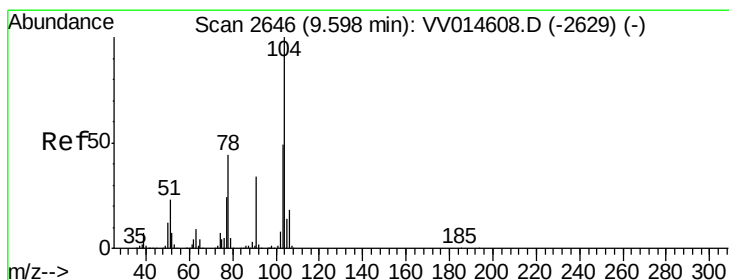
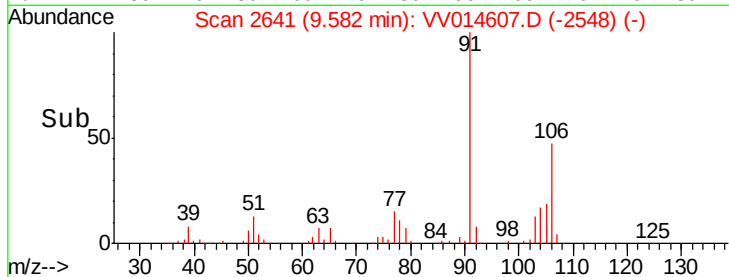
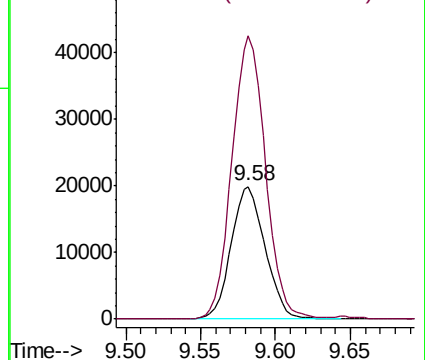
106 100

91 213.1 153.9 285.7



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.967 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV014607.D

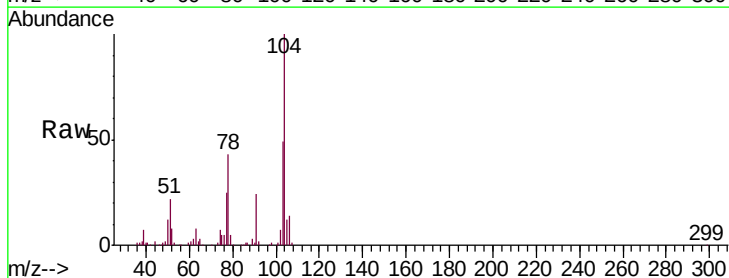
Acq: 19 Feb 2020 15:24

Tgt Ion:104 Resp: 52436

Ion Ratio Lower Upper

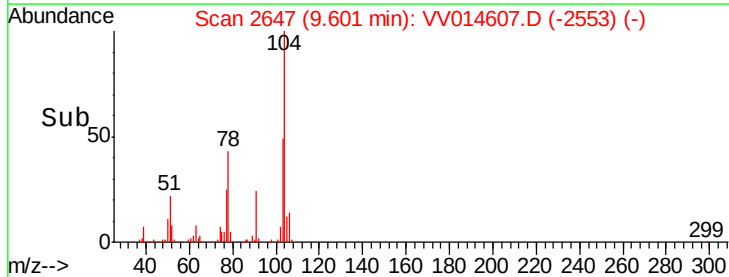
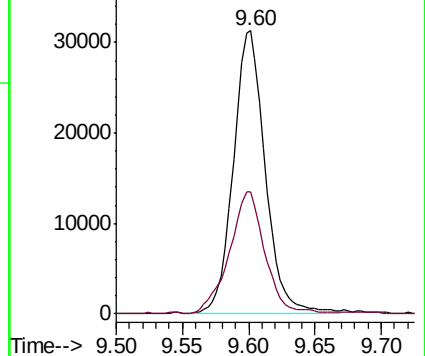
104 100

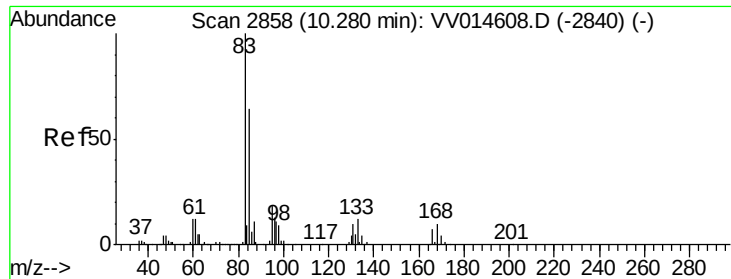
78 43.2 30.8 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0

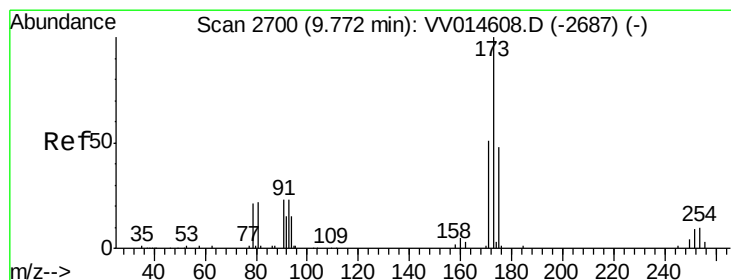
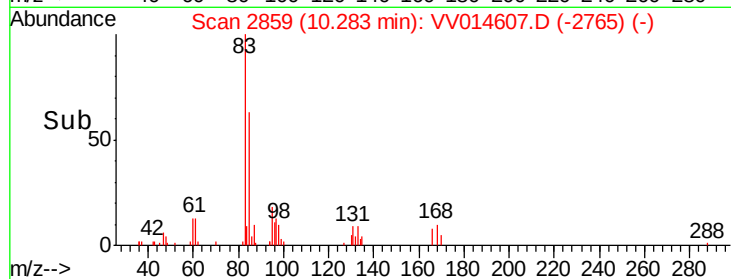
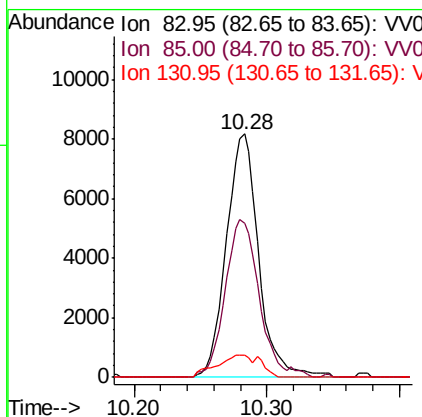
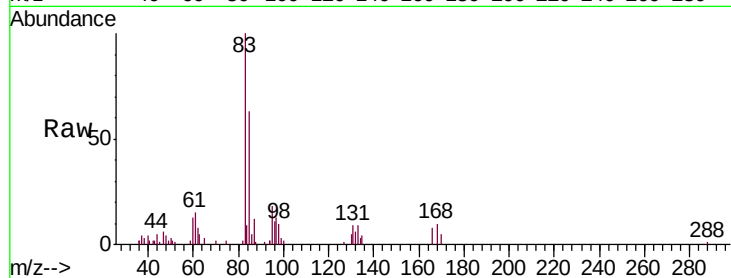




#57
 1,1,2,2-Tetrachloroethane
 Concen: 0.964 ug/L
 RT: 10.28 min Scan# 2859
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

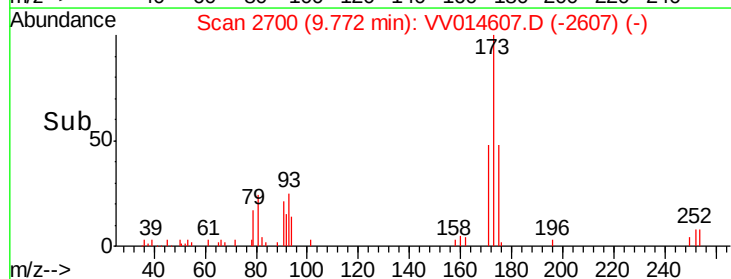
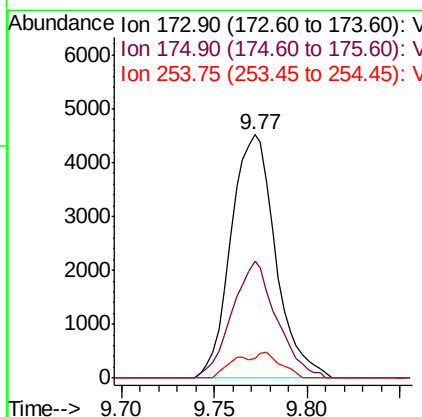
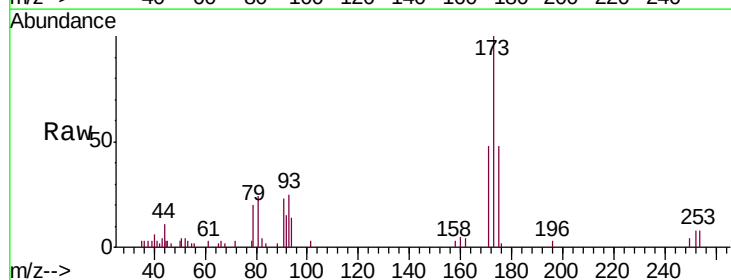
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD001702

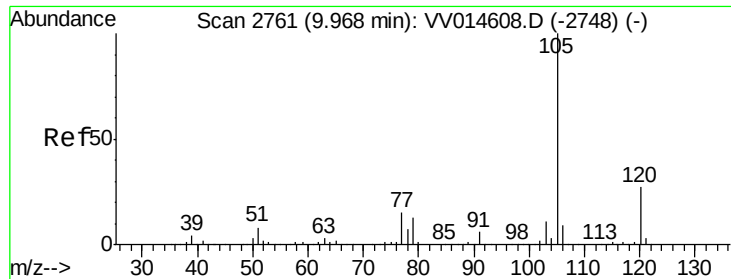
Tgt Ion: 83 Resp: 13877
 Ion Ratio Lower Upper
 83 100
 85 63.4 44.6 82.8
 131 9.2 8.1 12.1



#59
 Bromoform
 Concen: 0.973 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

Tgt Ion: 173 Resp: 7522
 Ion Ratio Lower Upper
 173 100
 175 48.1 40.0 60.0
 254 6.3 8.2 12.2#





#60

Isopropylbenzene

Concen: 0.932 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

Instrument :

MSVOA_V

ClientSampleId :

VSTD001702

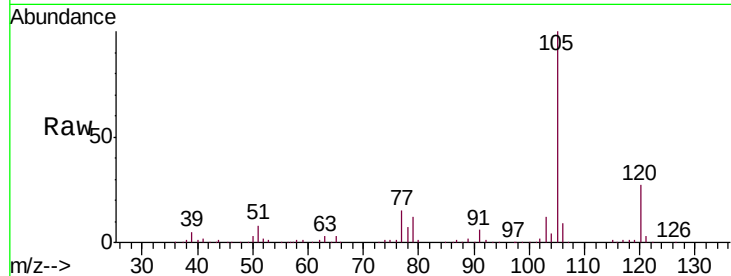
Tgt Ion: 105 Resp: 85437

Ion Ratio Lower Upper

105 100

120 27.3 21.3 31.9

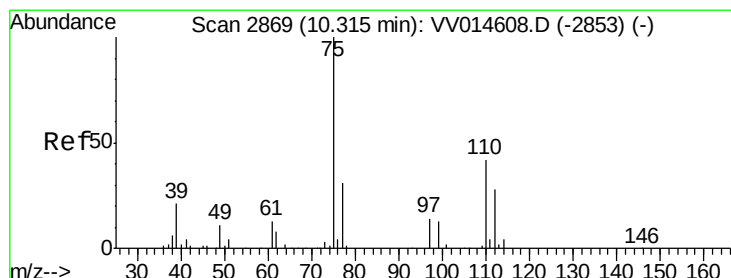
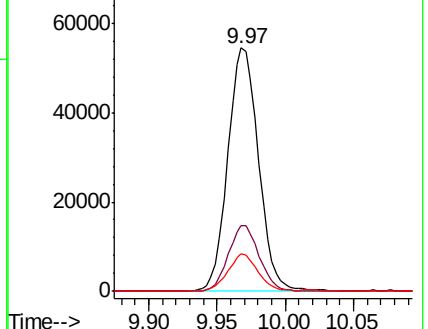
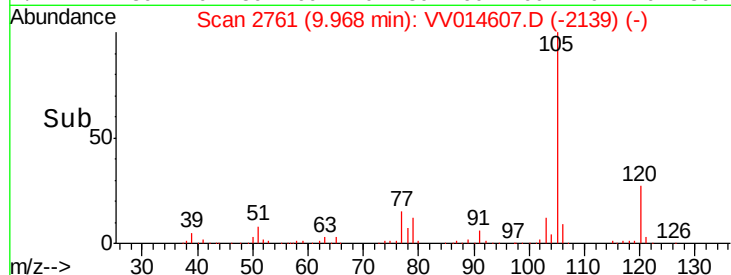
77 15.1 12.2 18.4



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



#61

1,2,3-Trichloropropane

Concen: 0.880 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV014607.D

Acq: 19 Feb 2020 15:24

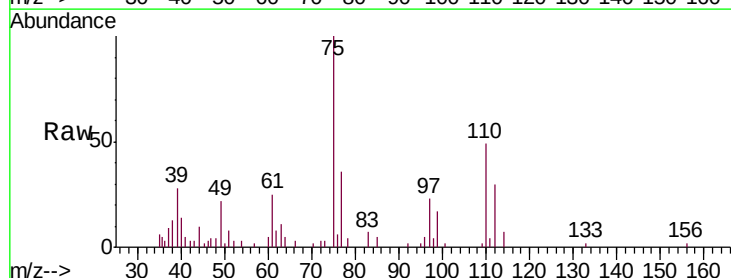
Tgt Ion: 75 Resp: 9620

Ion Ratio Lower Upper

75 100

77 34.8 26.3 39.5

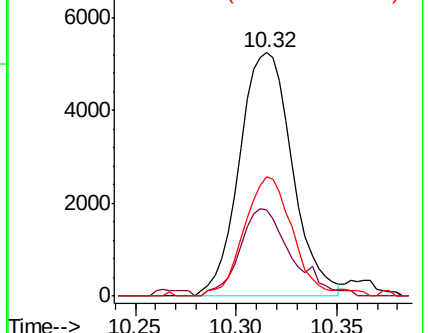
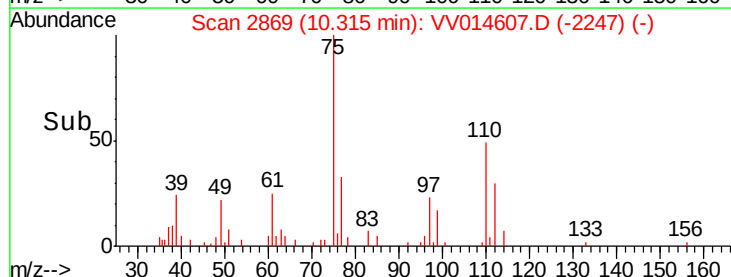
110 45.5 33.6 50.4

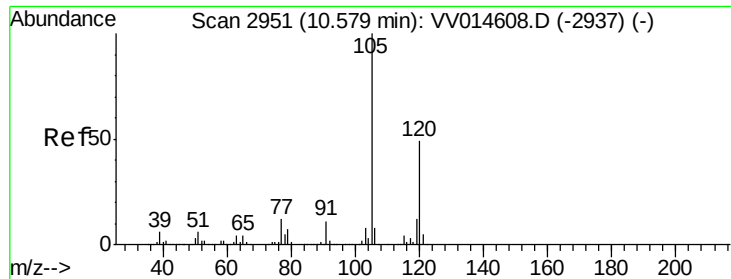


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V

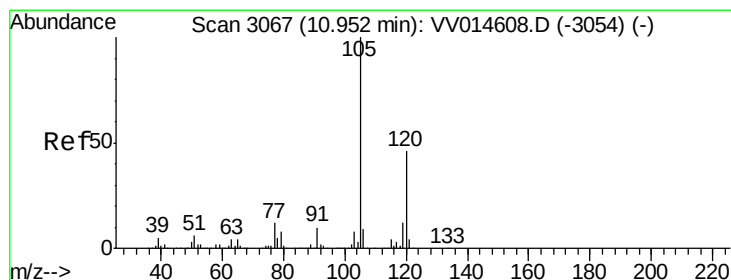
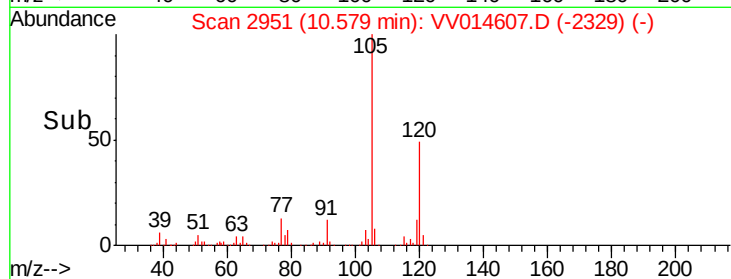
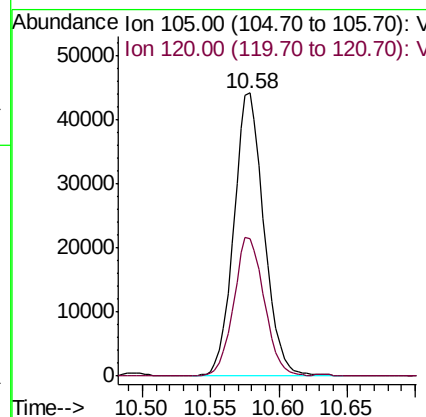
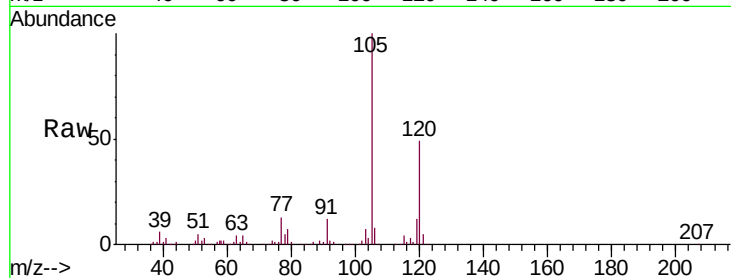




#62
 1,3,5-Trimethylbenzene
 Concen: 0.878 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

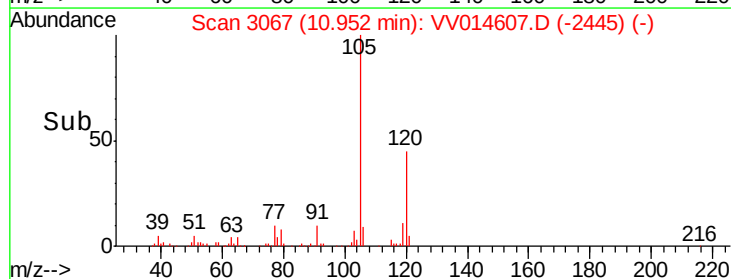
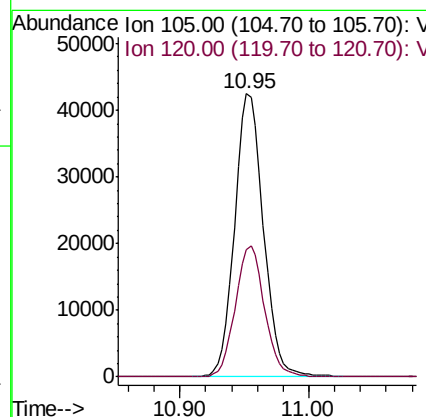
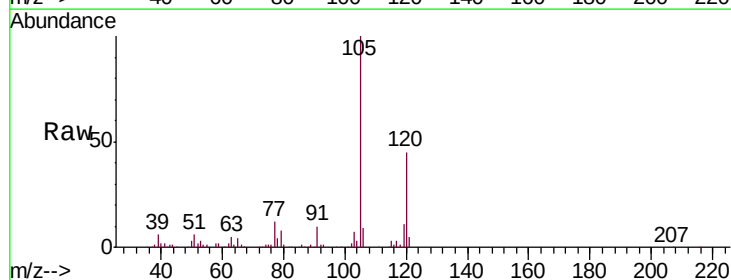
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD001702

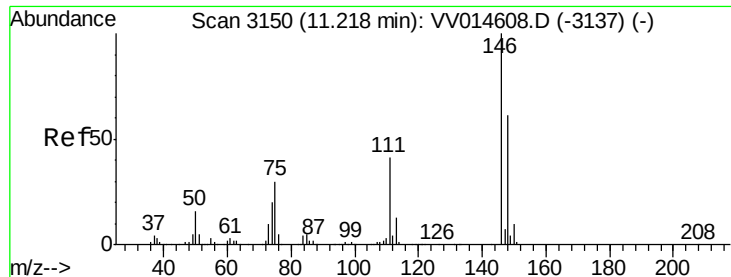
Tgt Ion:105 Resp: 67723
 Ion Ratio Lower Upper
 105 100
 120 49.6 38.7 58.1



#63
 1,2,4-Trimethylbenzene
 Concen: 0.860 ug/L
 RT: 10.95 min Scan# 3067
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

Tgt Ion:105 Resp: 65966
 Ion Ratio Lower Upper
 105 100
 120 46.8 36.5 54.7

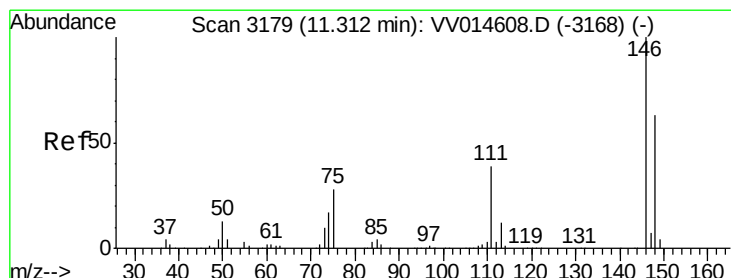
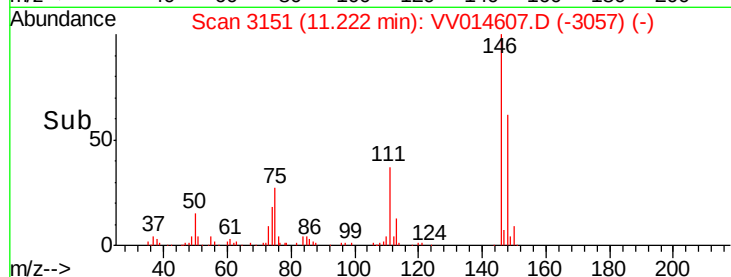
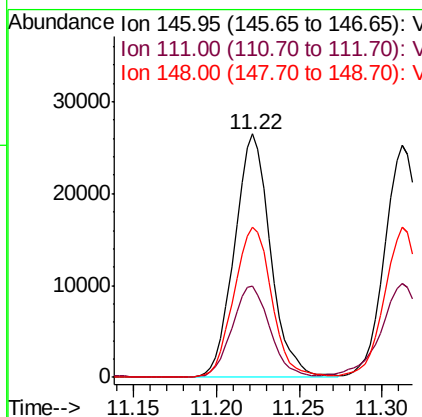
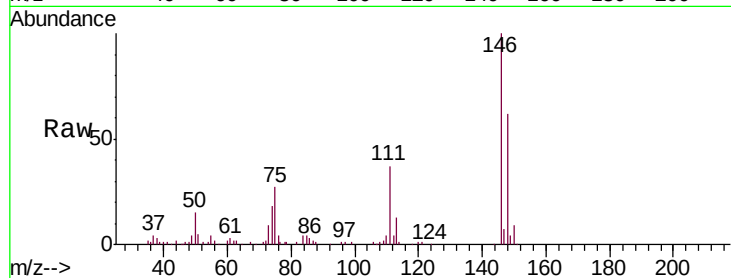




#64
 1,3-Dichlorobenzene
 Concen: 1.033 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

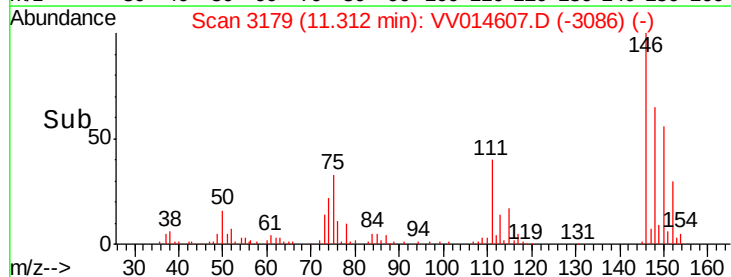
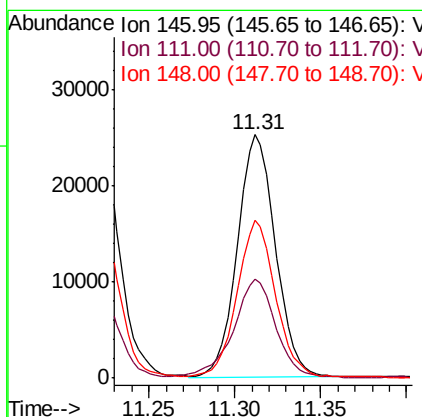
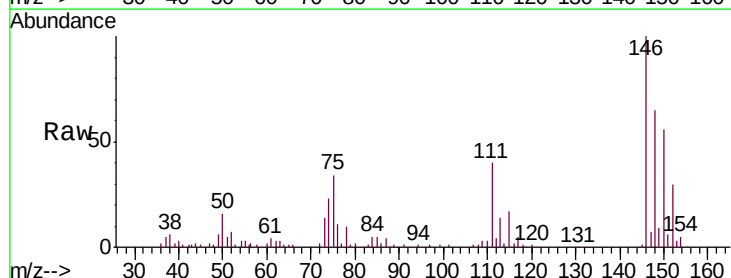
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD001702

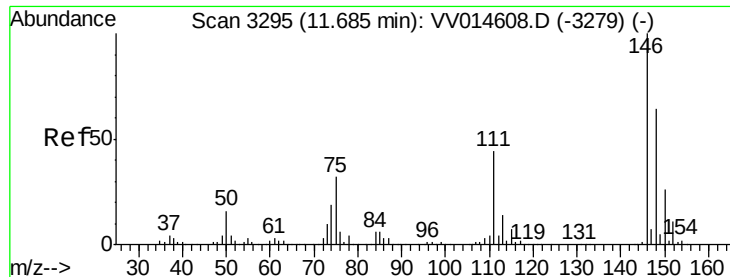
Tgt Ion:146 Resp: 40064
 Ion Ratio Lower Upper
 146 100
 111 37.5 28.4 52.8
 148 61.5 43.0 79.8



#65
 1,4-Dichlorobenzene
 Concen: 0.983 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

Tgt Ion:146 Resp: 38760
 Ion Ratio Lower Upper
 146 100
 111 40.5 27.6 51.4
 148 64.7 44.3 82.3

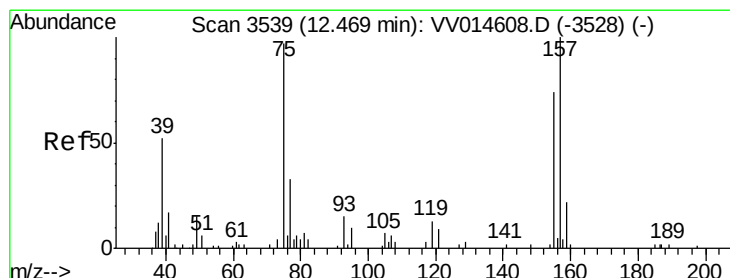
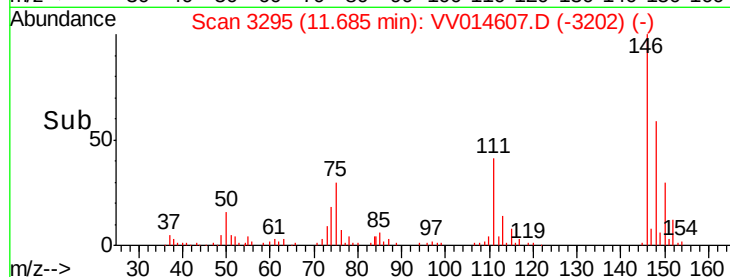
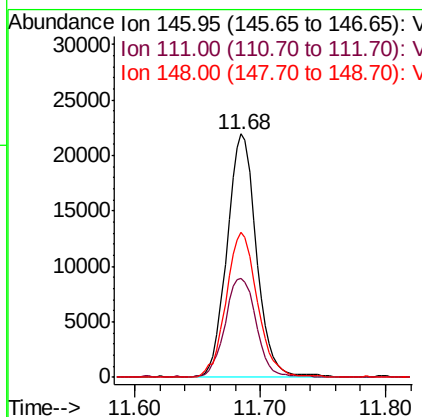
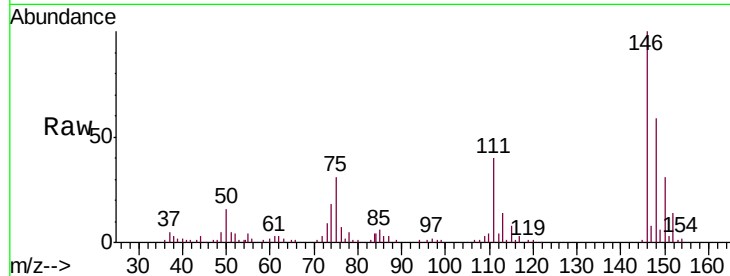




#67
 1,2-Dichlorobenzene
 Concen: 1.028 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

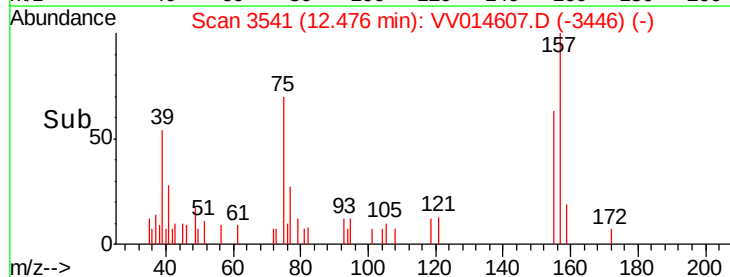
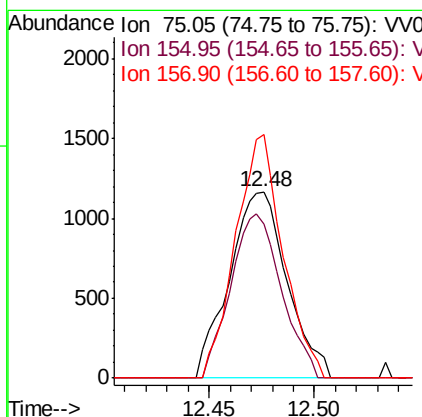
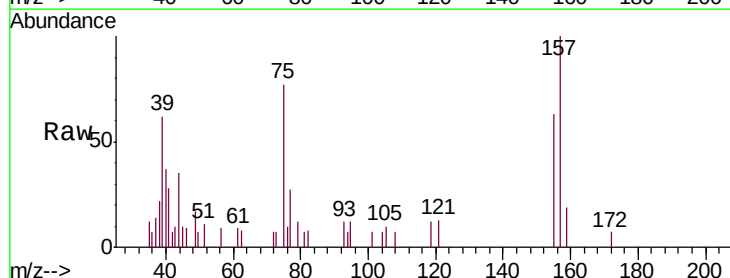
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD001702

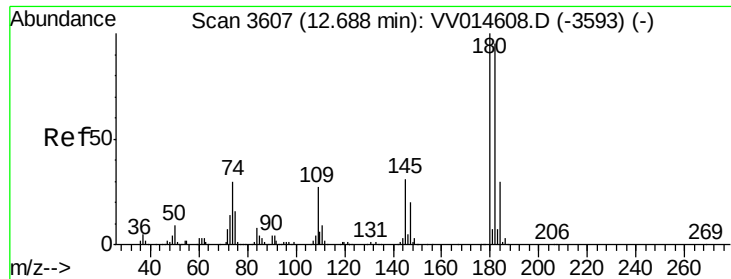
Tgt Ion: 146 Resp: 35709
 Ion Ratio Lower Upper
 146 100
 111 40.4 35.0 52.4
 148 59.5 51.4 77.0



#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.805 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.01 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

Tgt Ion: 75 Resp: 2220
 Ion Ratio Lower Upper
 75 100
 155 82.9 61.4 92.2
 157 130.7 82.8 124.2#

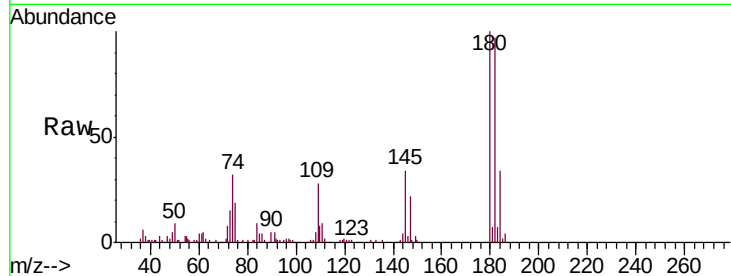




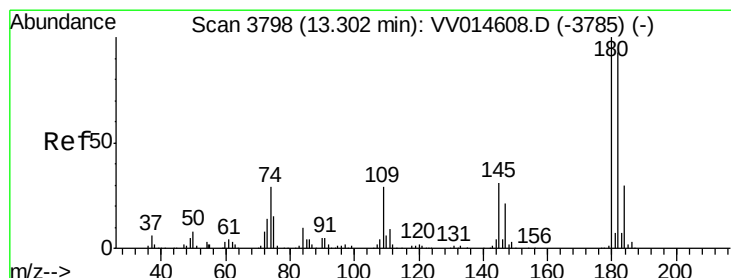
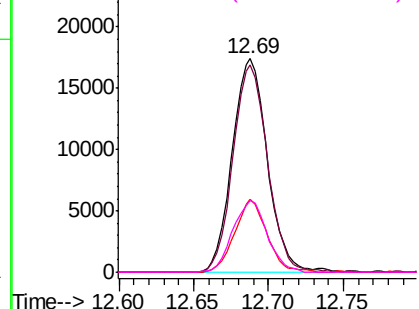
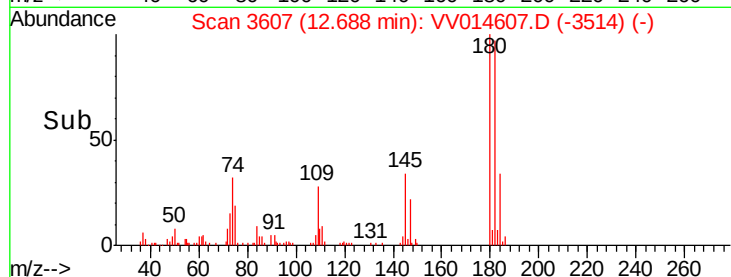
#69
 1,3,5-Trichlorobenzene
 Concen: 0.999 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD001702

Tgt Ion:180 Resp: 28521
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.6 114.8
 184 31.2 23.9 35.9
 145 32.8 25.4 38.2

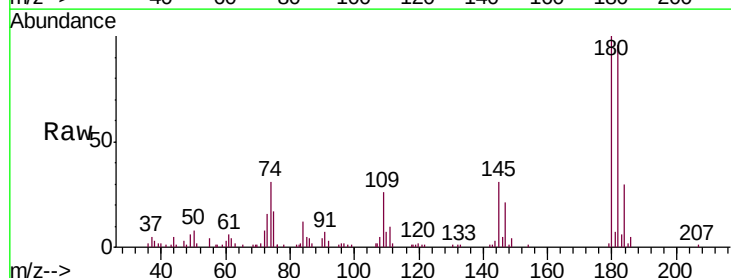


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

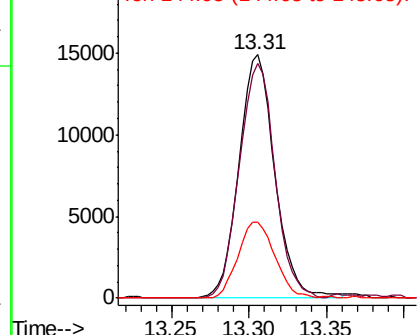
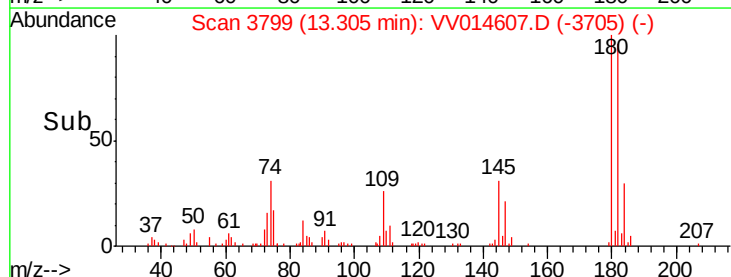


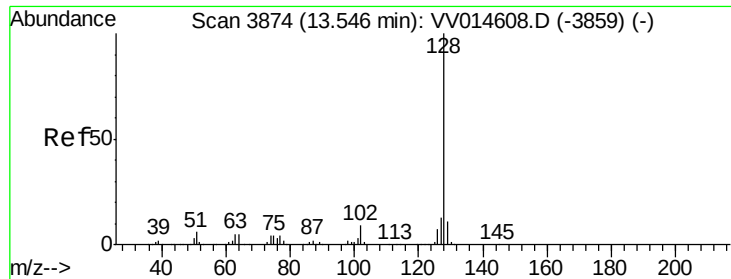
#70
 1,2,4-trichlorobenzene
 Concen: 0.996 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014607.D
 Acq: 19 Feb 2020 15:24

Tgt Ion:180 Resp: 24035
 Ion Ratio Lower Upper
 180 100
 182 95.6 75.7 113.5
 145 32.0 25.1 37.7



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V

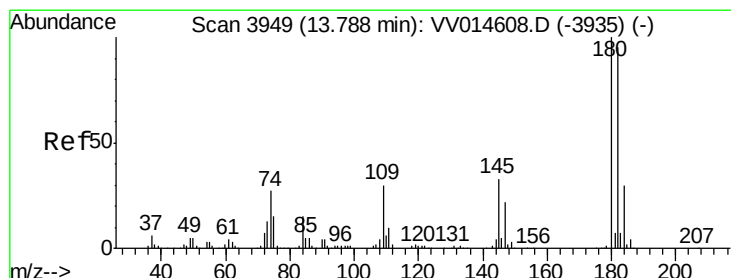
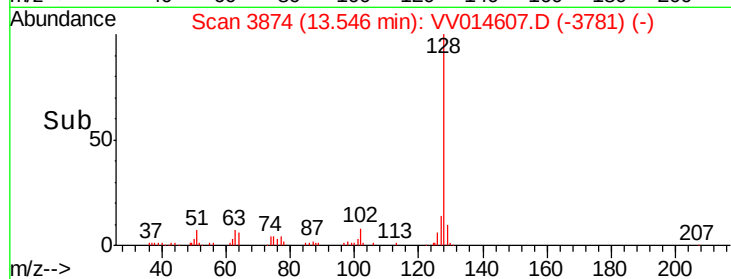
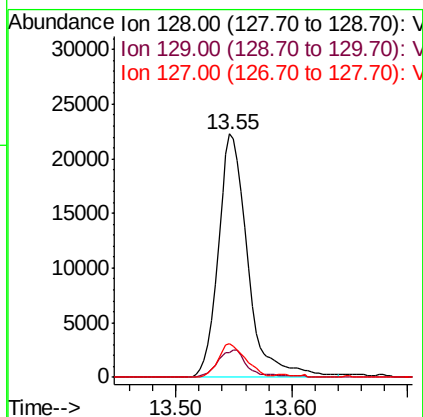
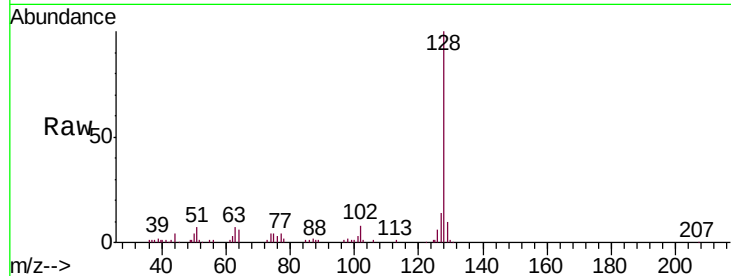




#71
Naphthalene
Concen: 0.902 ug/L
RT: 13.55 min Scan# 3874
Delta R.T. 0.00 min
Lab File: VV014607.D
Acq: 19 Feb 2020 15:24

Instrument :
MSVOA_V
ClientSampleId :
VSTD001702

Tgt Ion:128 Resp: 39511
Ion Ratio Lower Upper
128 100
129 11.6 8.7 13.1
127 12.9 10.4 15.6



#72
1,2,3-Trichlorobenzene
Concen: 0.997 ug/L
RT: 13.79 min Scan# 3949
Delta R.T. 0.00 min
Lab File: VV014607.D
Acq: 19 Feb 2020 15:24

Tgt Ion:180 Resp: 20792
Ion Ratio Lower Upper
180 100
182 100.3 75.0 112.6
145 35.1 26.7 40.1

