

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV011020\
 Data File : VV014271.D
 Acq On : 10 Jan 2020 15:35
 Operator : SY/MD
 Sample : L1101-11
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GASD3

Quant Time: Jan 13 10:01:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR010220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 11 00:01:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	1165636	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	1065518	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	499307	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	233524	2.86	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	57.20%
7) Chloroethane-d5	1.58	69	193211	3.06	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	61.20%#
11) 1,1-Dichloroethene-d2	2.13	63	348769	2.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.00%#
20) 2-Butanone-d5	3.96	46	631169	32.22	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	64.44%
24) Chloroform-d	4.40	84	557146	3.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	70.60%
26) 1,2-Dichloroethane-d4	5.08	65	251351	3.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	63.60%#
32) Benzene-d6	5.09	84	1060838	3.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	66.80%#
36) 1,2-Dichloropropane-d6	6.11	67	327176	3.32	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	66.40%
41) Toluene-d8	7.35	98	958565	3.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	66.00%#
43) trans-1,3-Dichloropropene-	7.66	79	141366	3.24	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	64.80%
46) 2-Hexanone-d5	8.13	63	585209	31.69	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	63.38%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	224715	3.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	65.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	311394	3.32	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	66.40%#

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	378828	4.311	ug/L 99
5) Vinyl chloride	1.32	62	345140	4.231	ug/L 100
8) Chloroethane	1.60	64	655267	14.295	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	625862	11.998	ug/L 98
12) 1,1-Dichloroethene	2.14	96	124183	2.385	ug/L 85
13) Acetone	2.23	43	1606459	119.068	ug/L 97
15) Methyl Acetate	2.47	43	347814	11.074	ug/L 94
18) trans-1,2-Dichloroethene	2.79	96	238542	3.047	ug/L 98
19) 1,1-Dichloroethane	3.23	63	337821	2.202	ug/L 97
22) cis-1,2-Dichloroethene	3.96	96	366251	4.268	ug/L # 97
23) Bromochloromethane	4.30	128	172735	5.295	ug/L 93
25) Chloroform	4.42	83	1205748	8.208	ug/L 98
27) 1,2-Dichloroethane	5.18	62	177006	2.014	ug/L 94
29) 1,1,1-Trichloroethane	4.65	97	280989	2.215	ug/L 99
31) Carbon tetrachloride	4.87	117	357808	3.294	ug/L 100
34) Trichloroethene	5.96	95	204380	2.424	ug/L 96
39) cis-1,3-Dichloropropene	7.06	75	677452	5.052	ug/L 99

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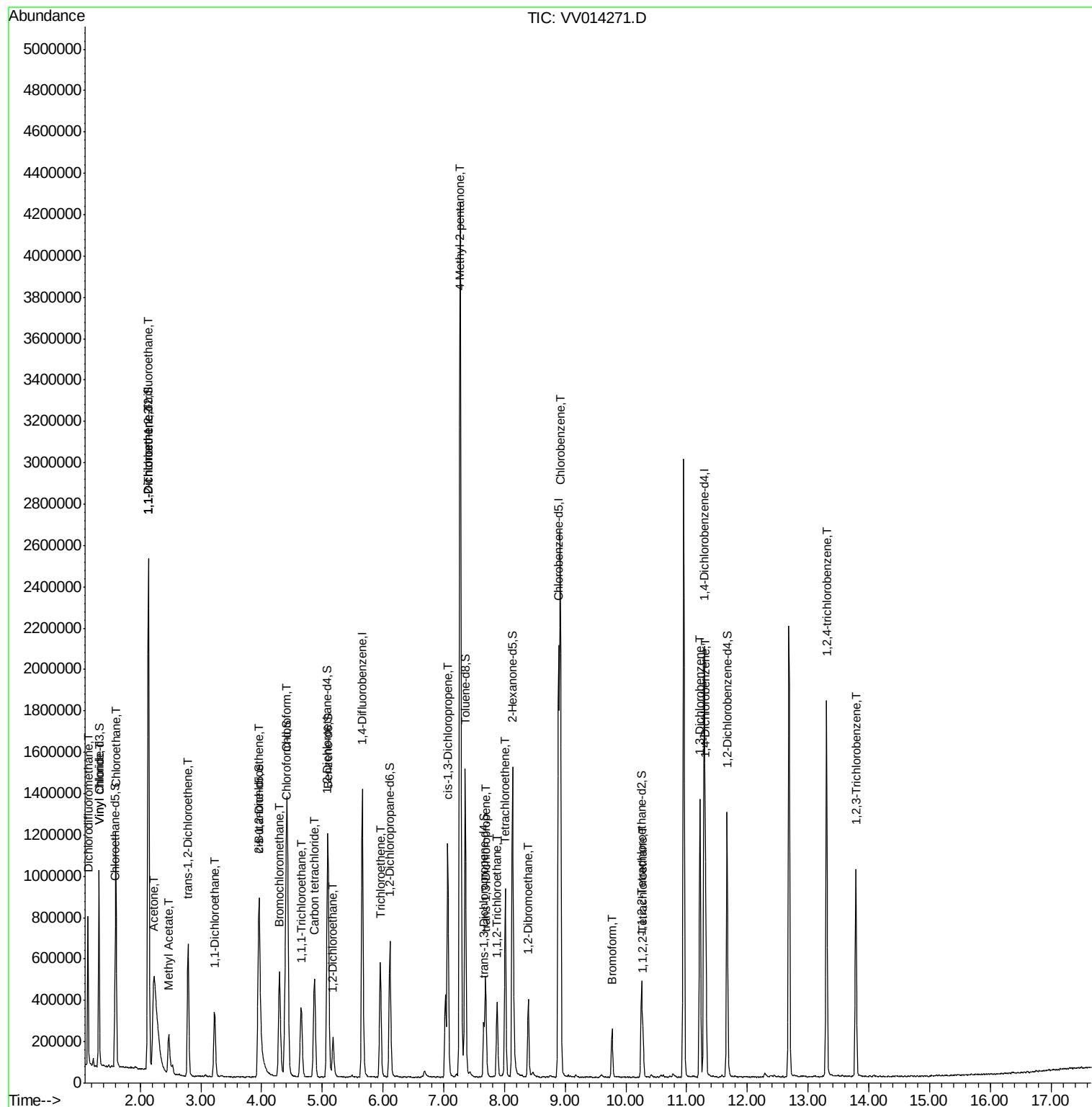
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) 4-Methyl-2-pentanone	7.27	43	3112554	59.614	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	273987	2.661	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	108450	2.050	ug/L	98
47) Tetrachloroethene	8.01	164	190988	3.315	ug/L	98
50) 1,2-Dibromoethane	8.39	107	256307	5.002	ug/L	98
51) Chlorobenzene	8.92	112	1326714	6.228	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	106183	1.627	ug/L	96
61) Bromoform	9.77	173	104183	3.078	ug/L	98
62) 1,3-Dichlorobenzene	11.22	146	509160	3.262	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	341014	2.197	ug/L	99
68) 1,2,4-trichlorobenzene	13.30	180	520711	5.230	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	281889	3.218	ug/L	99

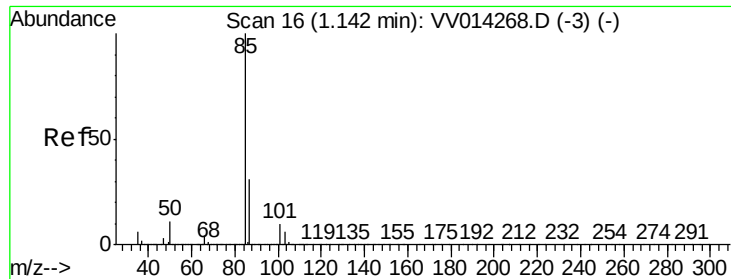
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.311 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

Instrument :

MSVOA_V

ClientSampleId :

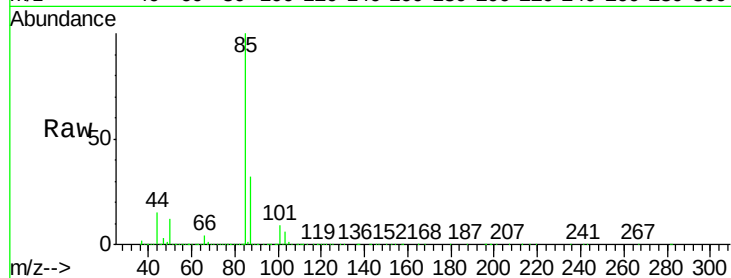
GASD3

Tot Ion: 85 Resp: 378828

Ion Ratio Lower Upper

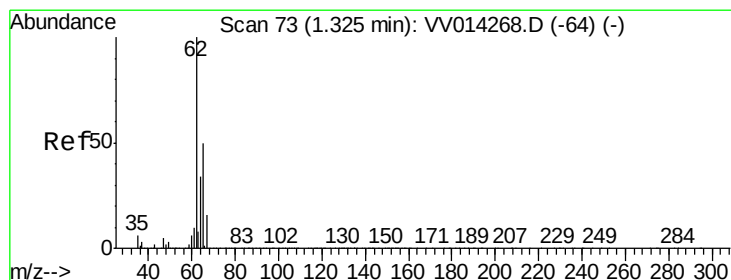
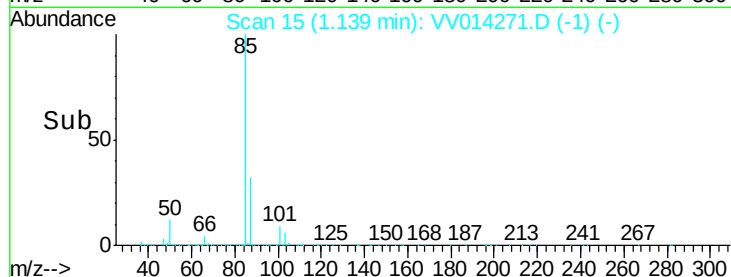
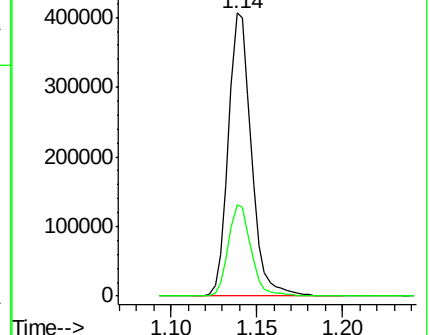
85 100

87 32.1 25.1 37.7



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#5

Vinyl chloride

Concen: 4.231 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV014271.D

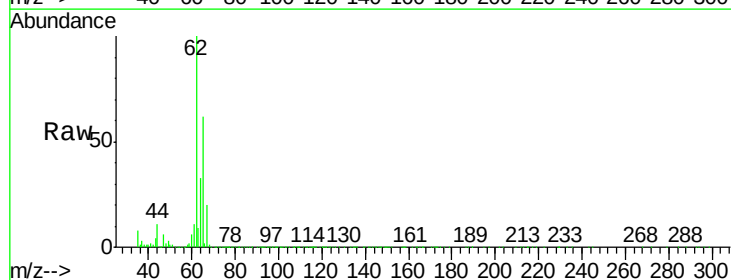
Acq: 10 Jan 2020 15:35

Tgt Ion: 62 Resp: 345140

Ion Ratio Lower Upper

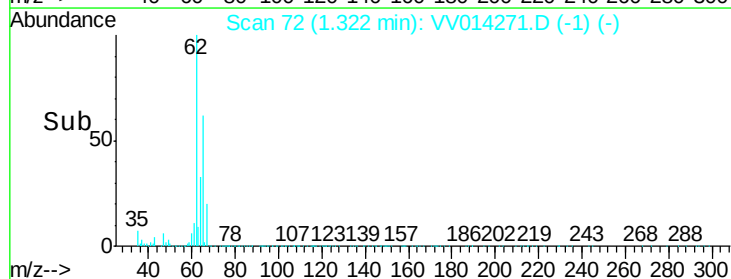
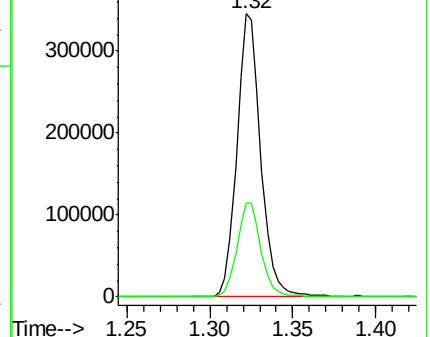
62 100

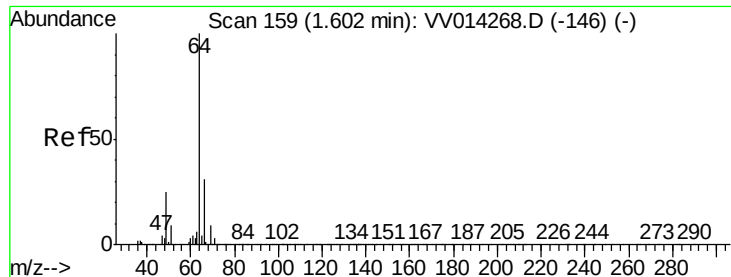
64 33.1 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0





#8

Chloroethane

Concen: 14.295 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

Instrument :

MSVOA_V

ClientSampleId :

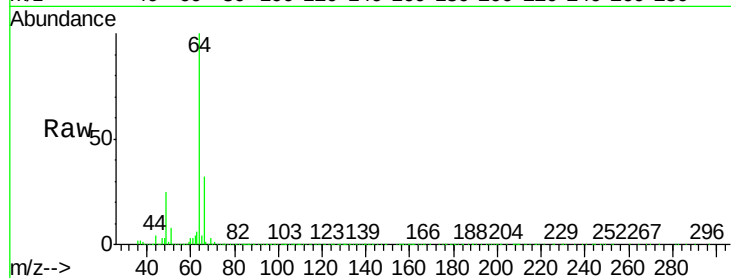
GASD3

Tot Ion: 64 Resp: 655267

Ion Ratio Lower Upper

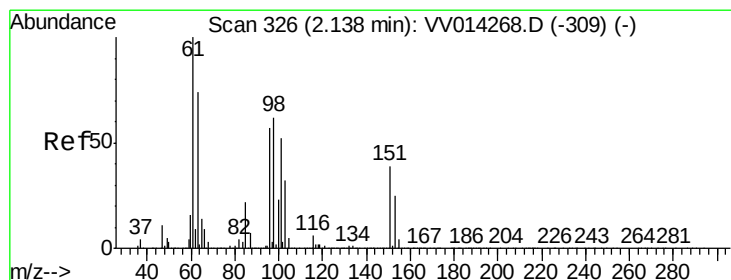
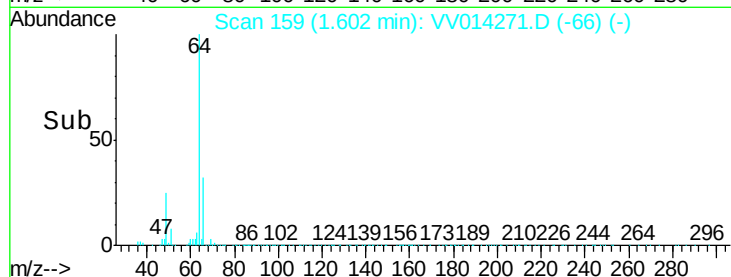
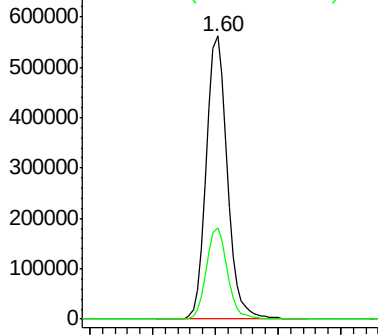
64 100

66 32.1 21.8 40.6



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0



#10

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

Concen: 11.998 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

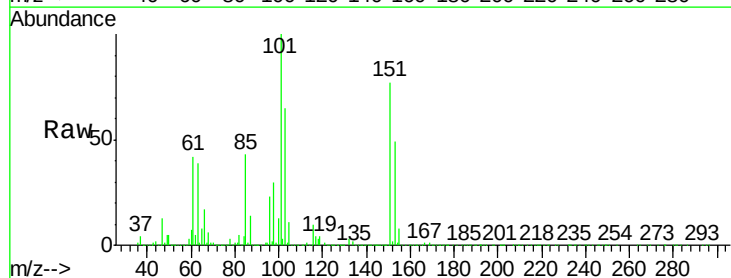
Tgt Ion: 101 Resp: 625862

Ion Ratio Lower Upper

101 100

85 43.4 34.9 52.3

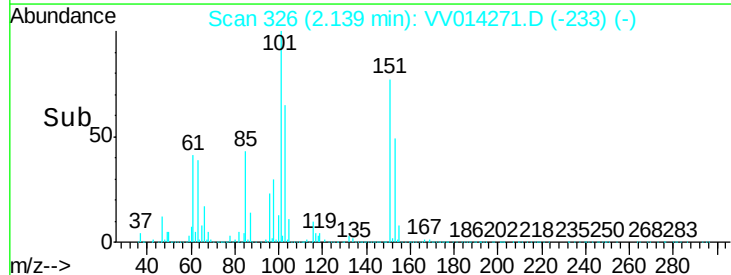
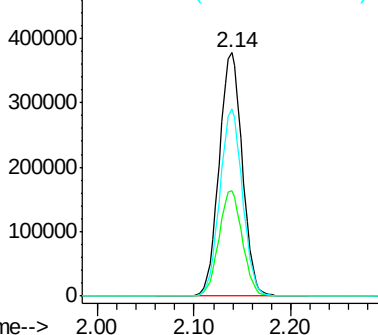
151 75.7 62.5 93.7

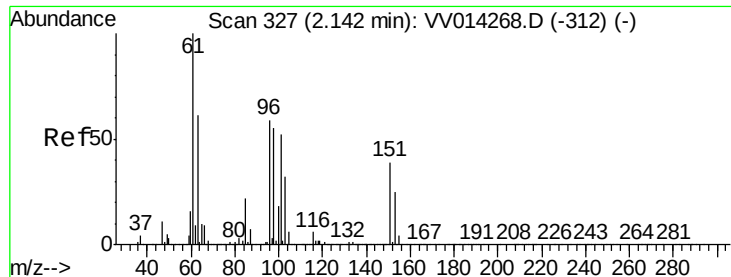


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V





#12

1,1-Dichloroethene

Concen: 2.385 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

Instrument :

MSVOA_V

ClientSampled :

GASD3

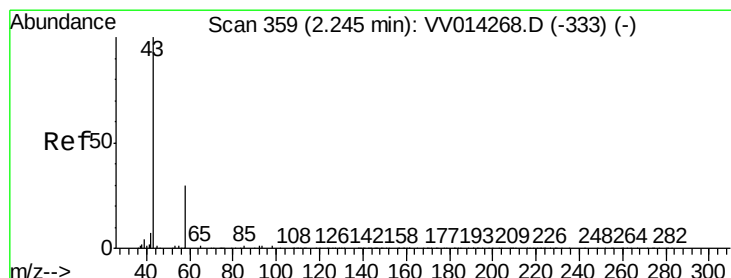
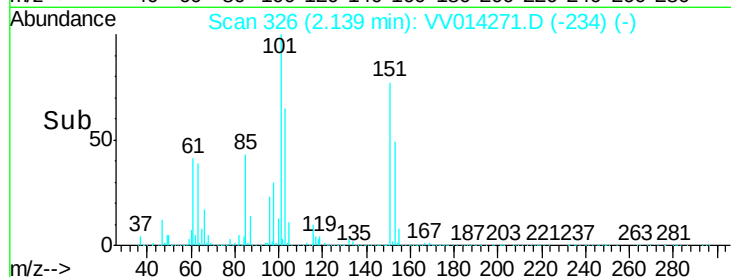
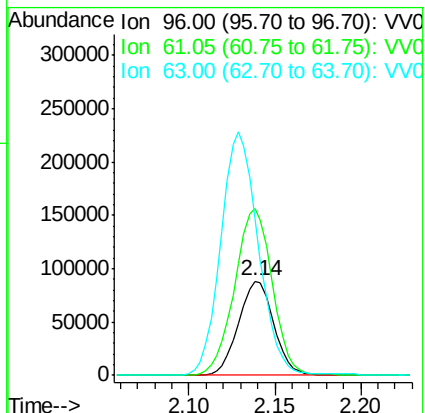
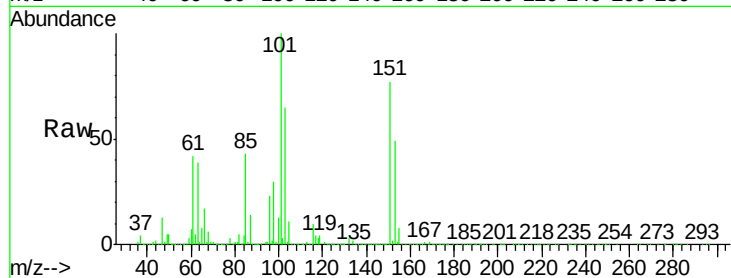
Tot Ion: 96 Resp: 124183

Ion Ratio Lower Upper

96 100

61 177.1 121.5 225.7

63 165.6 90.3 167.7



#13

Acetone

Concen: 119.068 ug/L

RT: 2.23 min Scan# 354

Delta R.T. -0.02 min

Lab File: VV014271.D

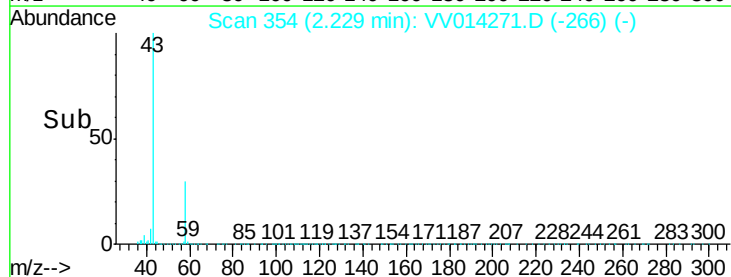
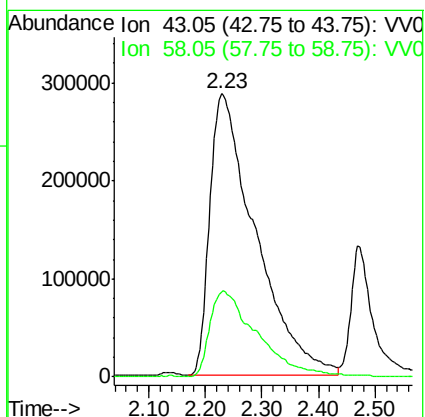
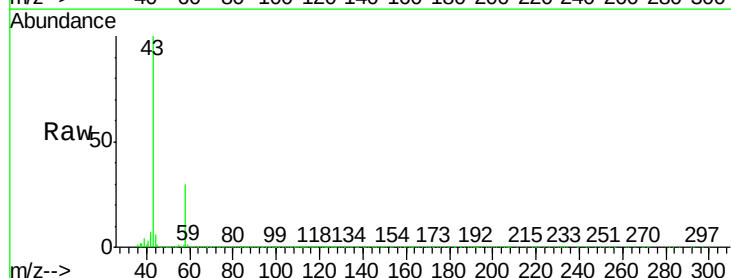
Acq: 10 Jan 2020 15:35

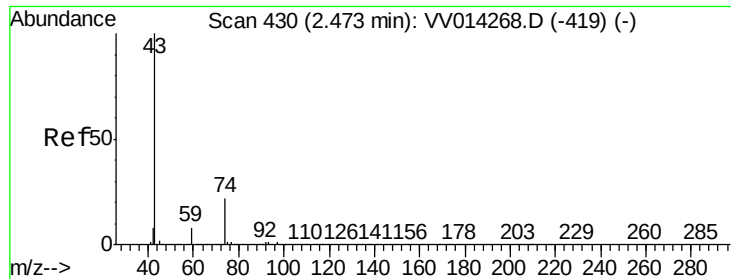
Tgt Ion: 43 Resp: 1606459

Ion Ratio Lower Upper

43 100

58 31.2 0.0 66.0

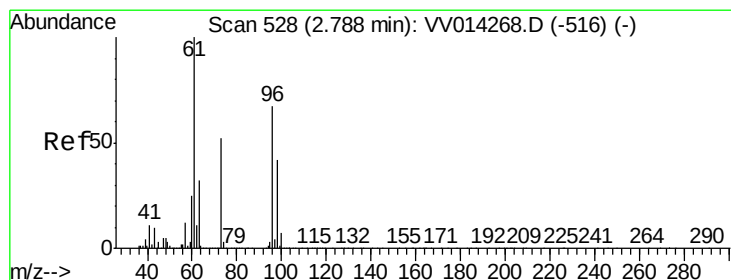
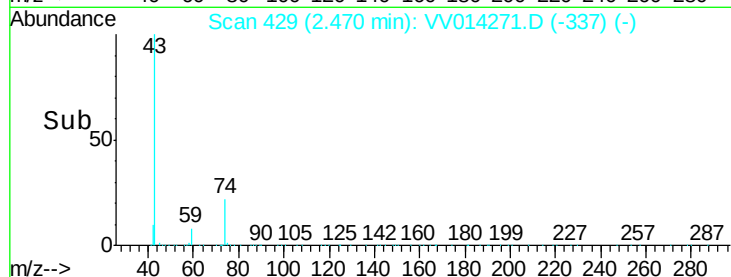
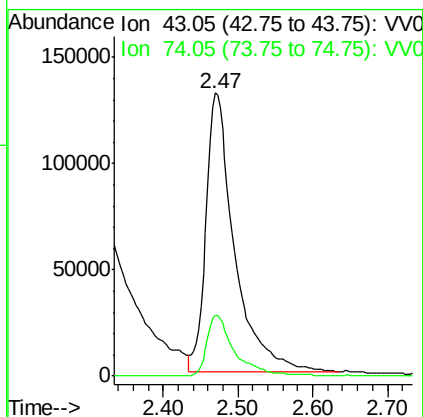
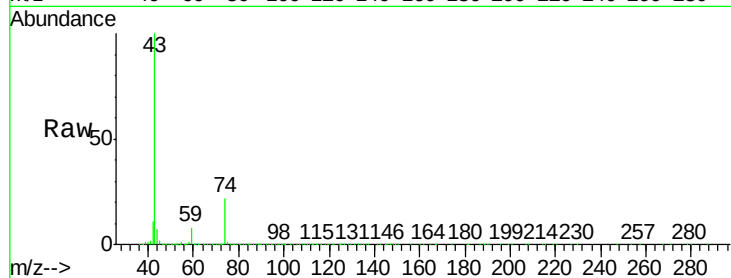




#15
Methyl Acetate
Concen: 11.074 ug/L
RT: 2.47 min Scan# 429
Delta R.T. -0.00 min
Lab File: VV014271.D
Acq: 10 Jan 2020 15:35

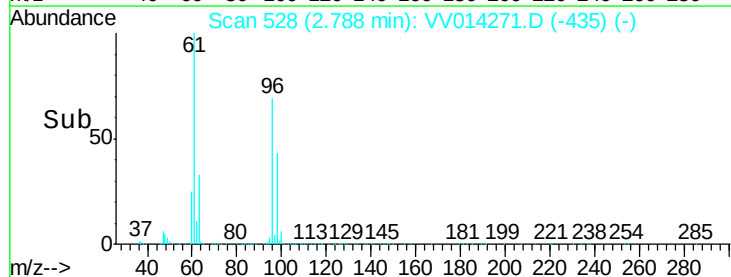
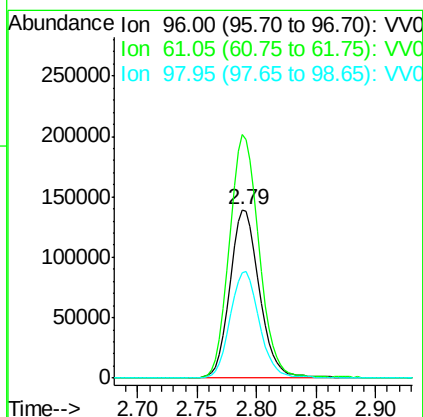
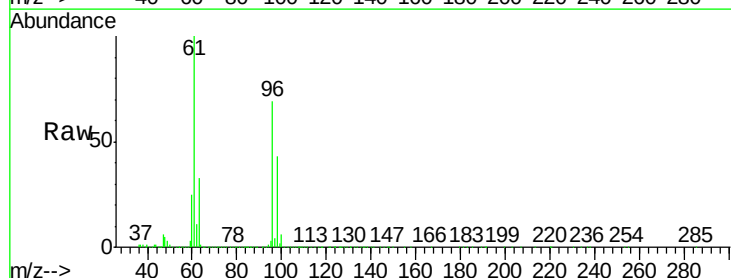
Instrument :
MSVOA_V
ClientSampleId :
GASD3

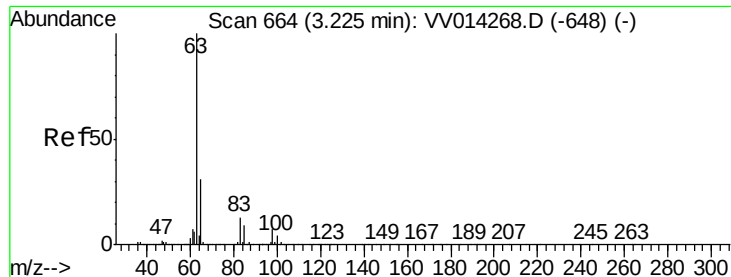
Tot Ion: 43 Resp: 347814
Ion Ratio Lower Upper
43 100
74 20.6 18.6 28.0



#18
trans-1,2-Dichloroethene
Concen: 3.047 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV014271.D
Acq: 10 Jan 2020 15:35

Tgt Ion: 96 Resp: 238542
Ion Ratio Lower Upper
96 100
61 144.3 99.2 184.2
98 62.6 43.1 80.1

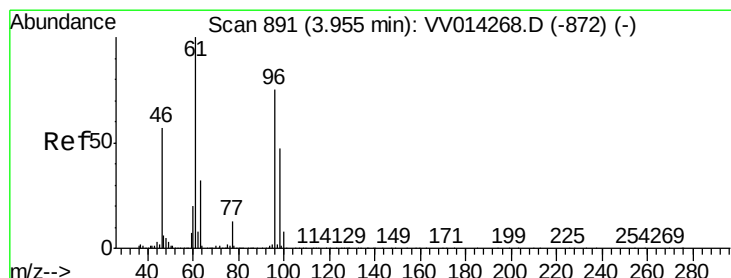
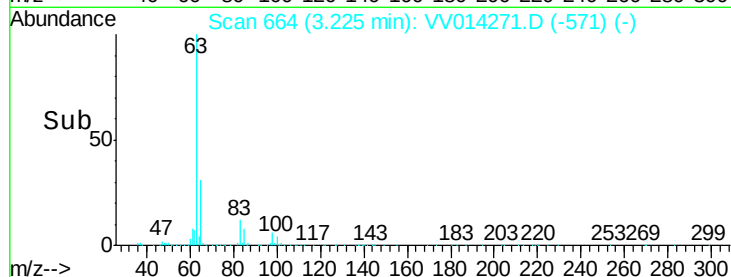
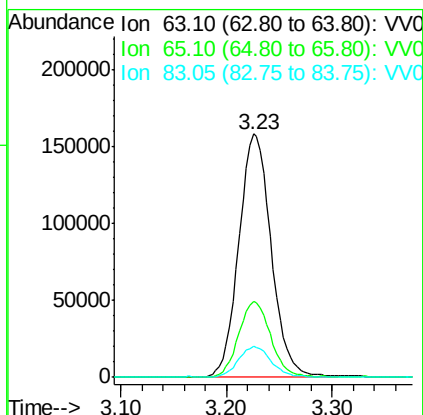
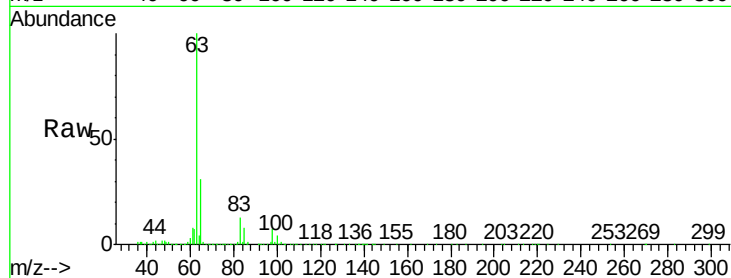




#19
 1,1-Dichloroethane
 Concen: 2.202 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV014271.D
 Acq: 10 Jan 2020 15:35

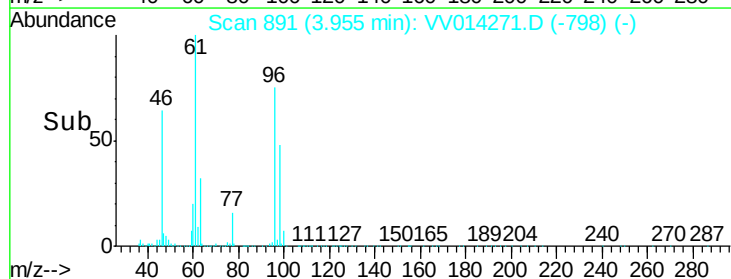
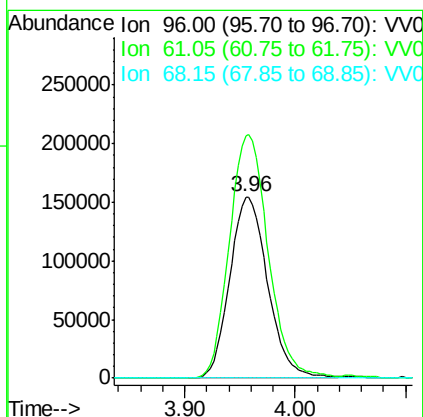
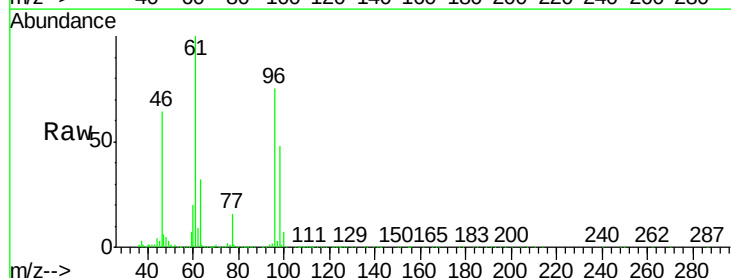
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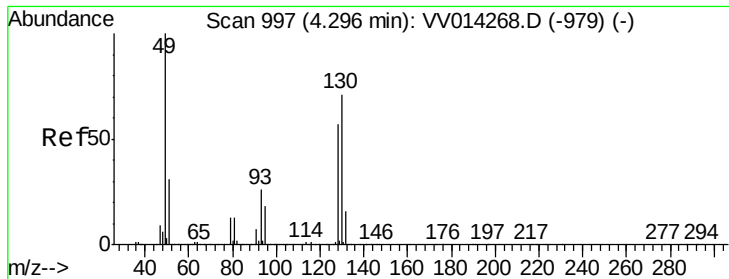
Tot Ion:	63	Resp:	337821
Ion	Ratio	Lower	Upper
63	100		
65	31.1	22.7	42.3
83	12.6	10.0	18.6



#22
 cis-1,2-Dichloroethene
 Concen: 4.268 ug/L
 RT: 3.96 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VV014271.D
 Acq: 10 Jan 2020 15:35

Tgt Ion:	96	Resp:	366251
Ion	Ratio	Lower	Upper
96	100		
61	133.4	90.6	168.3
68	0.1	0.3	0.7#





#23

Bromochloromethane

Concen: 5.295 ug/L

RT: 4.30 min Scan# 997

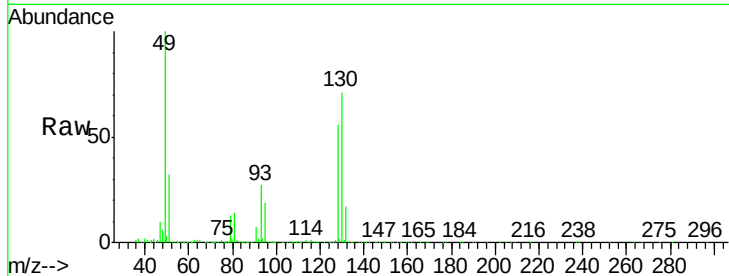
Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

Instrument :
MSVOA_V
ClientSampleId :
GASD3

Tot Ion:	128	Resp:	172735
Ion	Ratio	Lower	Upper
128	100		
49	178.4	117.5	218.1
130	127.3	93.7	173.9
51	57.8	42.0	63.0

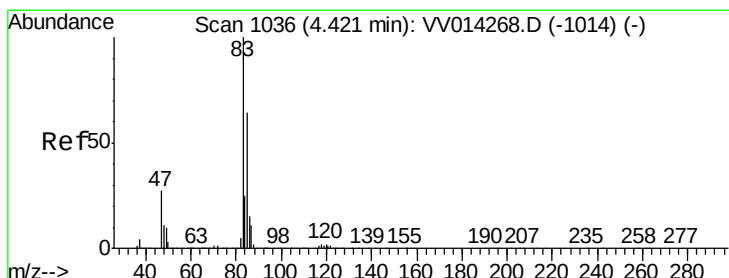
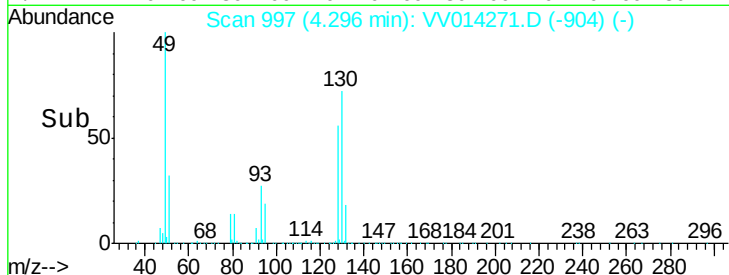
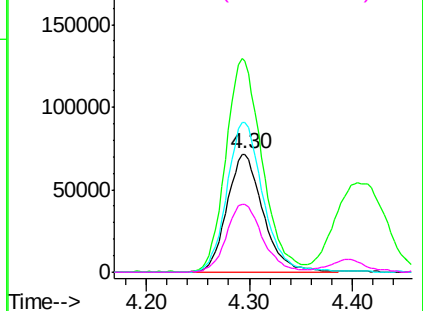


Abundance Ion 127.90 (127.60 to 128.60): VV014271.D (-904) (-)

Ion 49.10 (48.80 to 49.80): VV014271.D (-904) (-)

Ion 129.95 (129.65 to 130.65): VV014271.D (-904) (-)

Ion 51.05 (50.75 to 51.75): VV014271.D (-904) (-)



#25

Chloroform

Concen: 8.208 ug/L

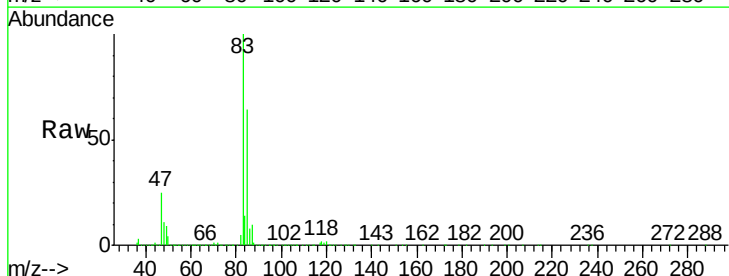
RT: 4.42 min Scan# 1036

Delta R.T. 0.00 min

Lab File: VV014271.D

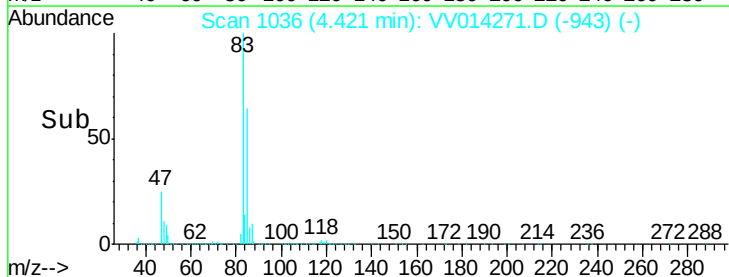
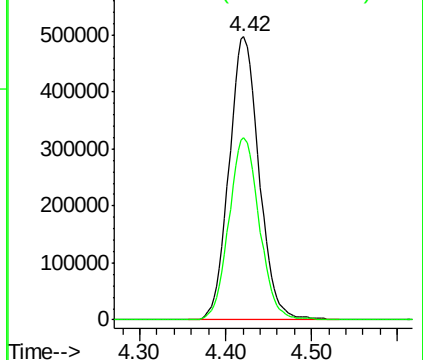
Acq: 10 Jan 2020 15:35

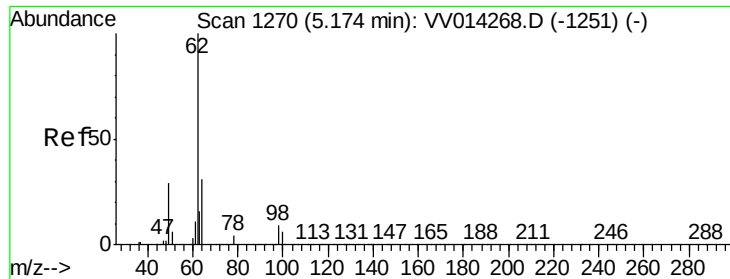
Tgt Ion:	83	Resp:	1205748
Ion	Ratio	Lower	Upper
83	100		
85	64.2	46.2	85.8



Abundance Ion 83.05 (82.75 to 83.75): VV014271.D (-943) (-)

Ion 85.00 (84.70 to 85.70): VV014271.D (-943) (-)

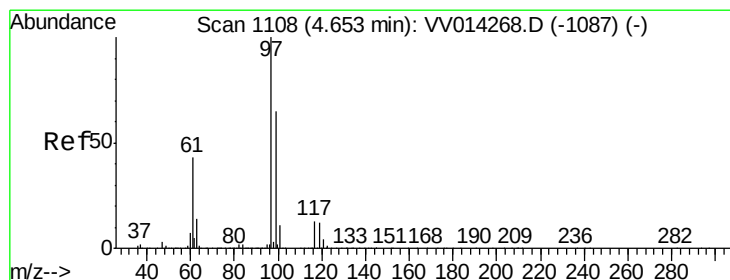
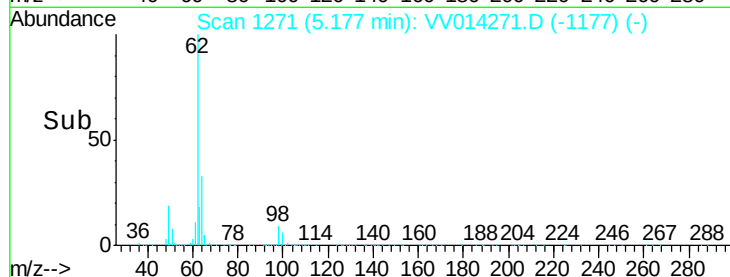
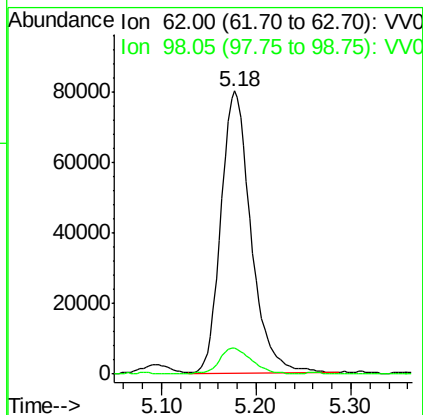
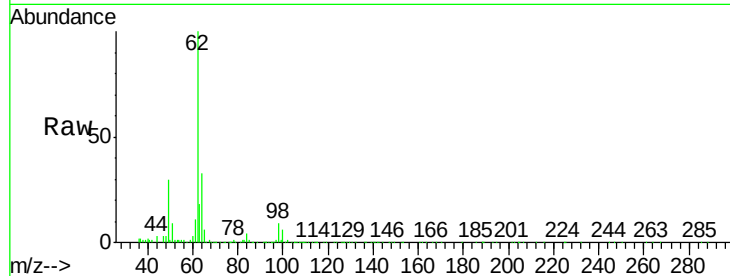




#27
 1,2-Dichloroethane
 Concen: 2.014 ug/L
 RT: 5.18 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VV014271.D
 Acq: 10 Jan 2020 15:35

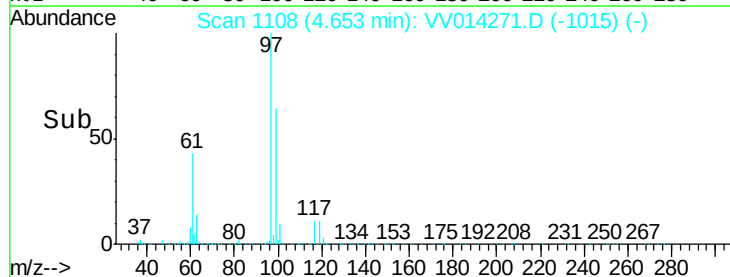
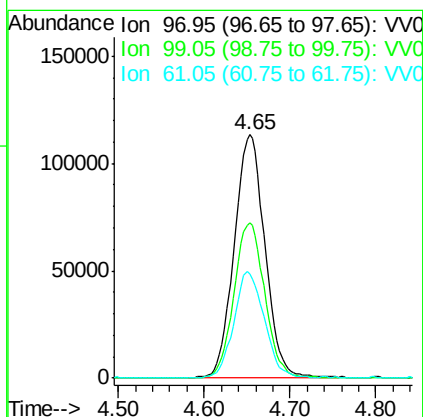
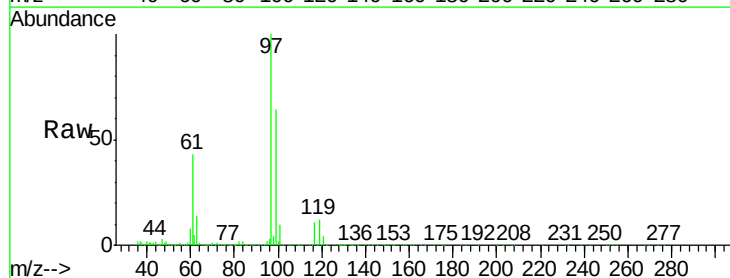
Instrument :
 MSVOA_V
 ClientSampleId :
 GASD3

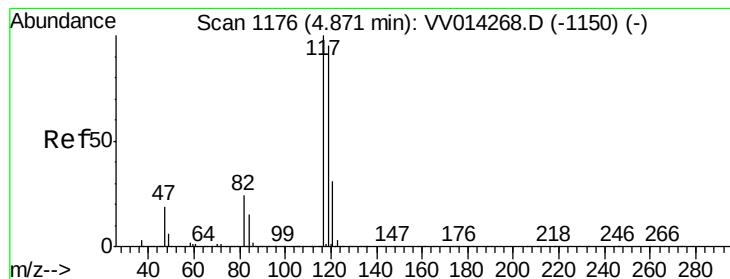
Tot Ion: 62 Resp: 177006
 Ion Ratio Lower Upper
 62 100
 98 9.3 9.2 13.8



#29
 1,1,1-Trichloroethane
 Concen: 2.215 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: VV014271.D
 Acq: 10 Jan 2020 15:35

Tgt Ion: 97 Resp: 280989
 Ion Ratio Lower Upper
 97 100
 99 64.3 51.1 76.7
 61 43.1 33.9 50.9





#31

Carbon tetrachloride

Concen: 3.294 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

Instrument :

MSVOA_V

ClientSampleId :

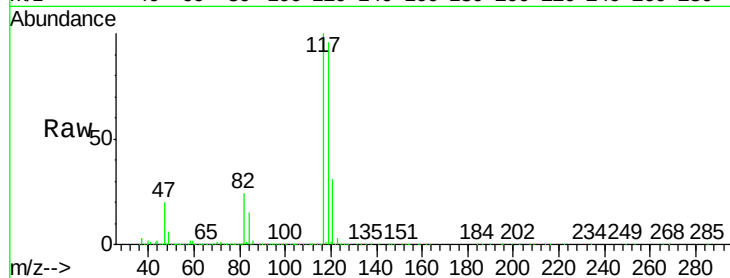
GASD3

Tot Ion:117 Resp: 357808

Ion Ratio Lower Upper

117 100

119 96.1 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

4.87

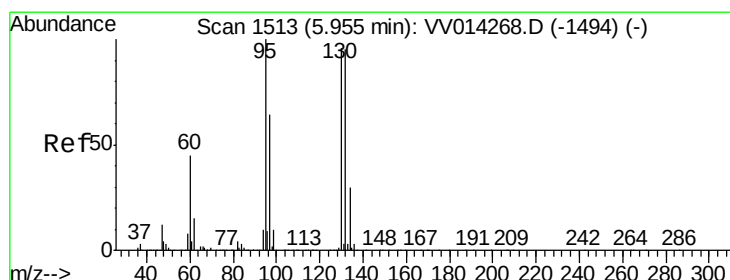
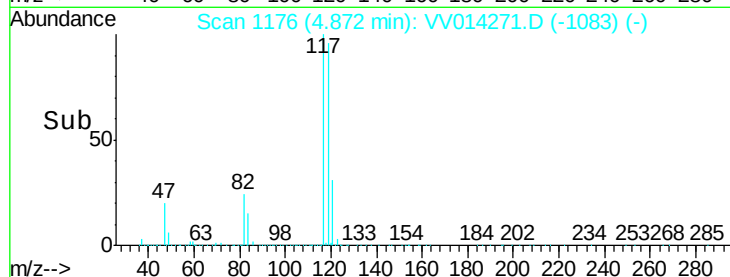
150000

100000

50000

0

Time-->



#34

Trichloroethene

Concen: 2.424 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

Tgt Ion: 95 Resp: 204380

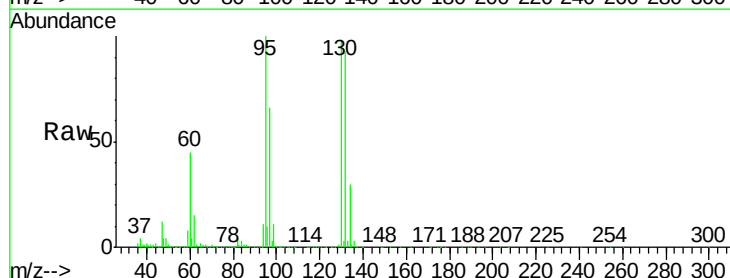
Ion Ratio Lower Upper

95 100

97 66.2 43.8 81.3

132 93.4 63.4 117.8

130 97.6 65.7 122.1



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): V

Ion 129.95 (129.65 to 130.65): V

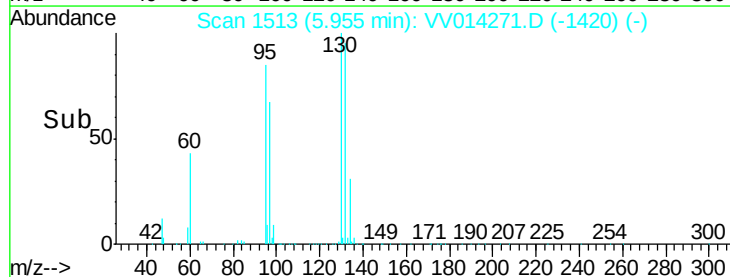
150000

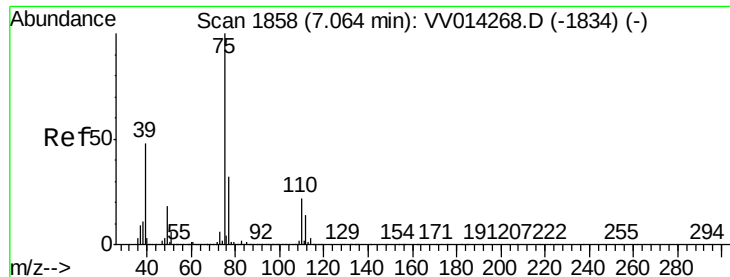
100000

50000

0

Time-->

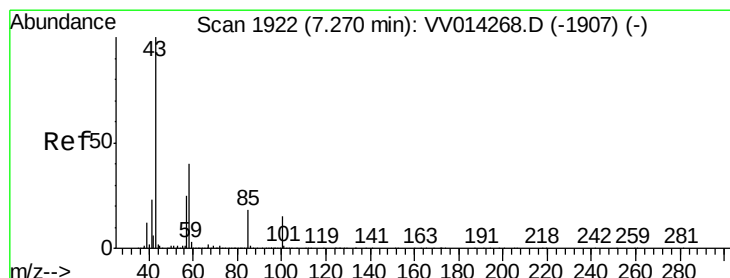
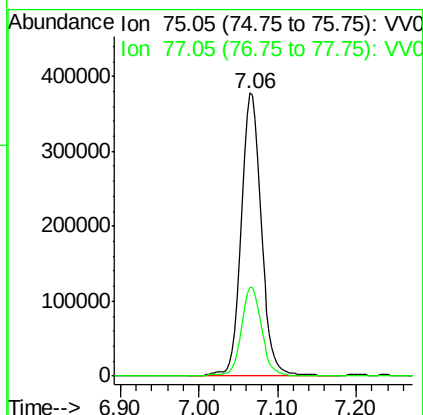
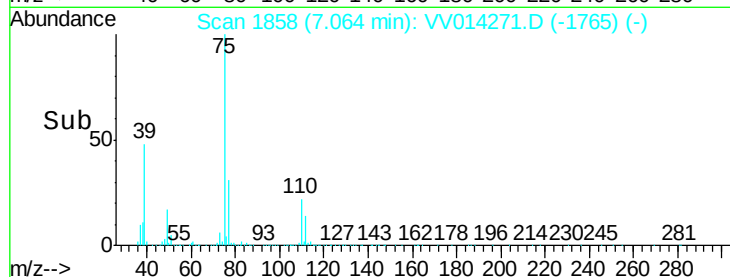
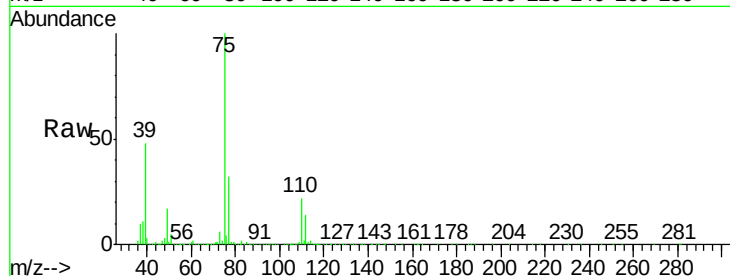




#39
 cis-1,3-Dichloropropene
 Concen: 5.052 ug/L
 RT: 7.06 min Scan# 1858
 Delta R.T. 0.00 min
 Lab File: VV014271.D
 Acq: 10 Jan 2020 15:35

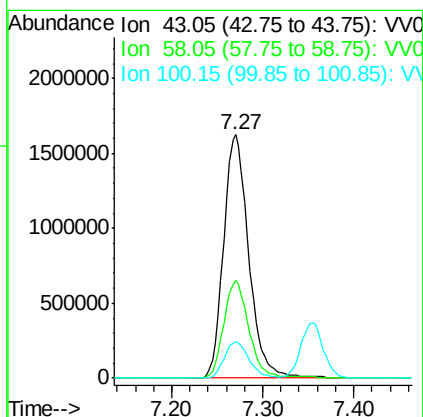
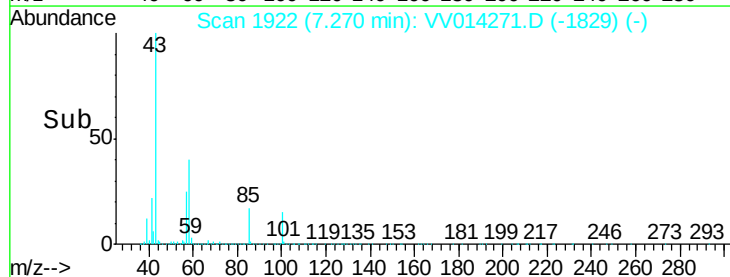
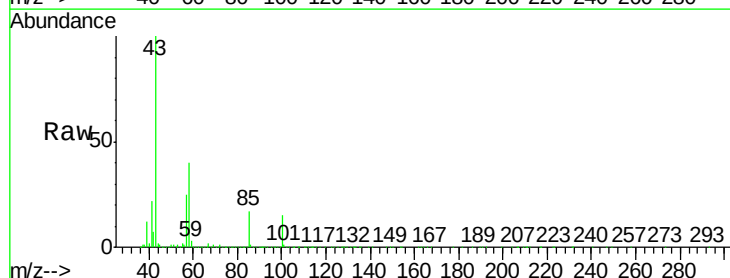
Instrument :
 MSVOA_V
 ClientSampleId :
 GASD3

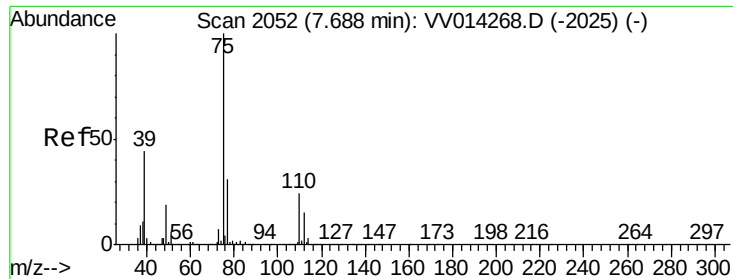
Tot Ion: 75 Resp: 677452
 Ion Ratio Lower Upper
 75 100
 77 31.5 22.4 41.6



#40
 4-Methyl-2-pentanone
 Concen: 59.614 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV014271.D
 Acq: 10 Jan 2020 15:35

Tgt Ion: 43 Resp: 3112554
 Ion Ratio Lower Upper
 43 100
 58 39.8 31.5 47.3
 100 14.8 12.2 18.2





#44

trans-1,3-Dichloropropene

Concen: 2.661 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

Instrument :

MSVOA_V

ClientSampleId :

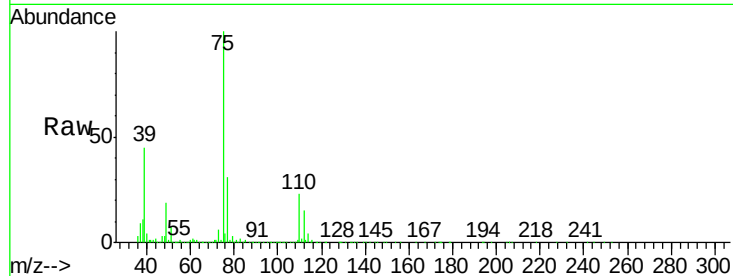
GASD3

Tot Ion: 75 Resp: 273987

Ion Ratio Lower Upper

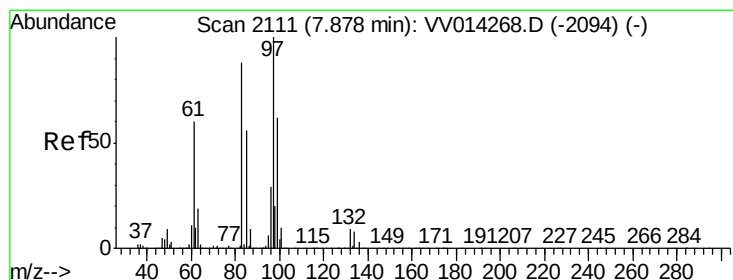
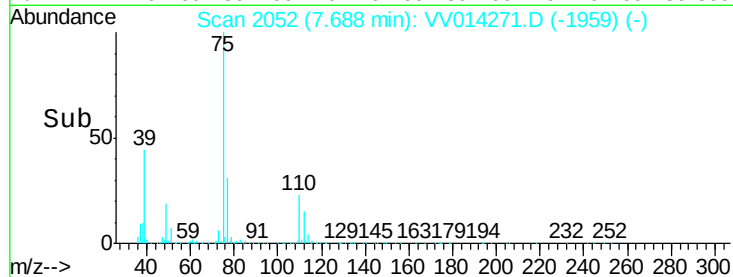
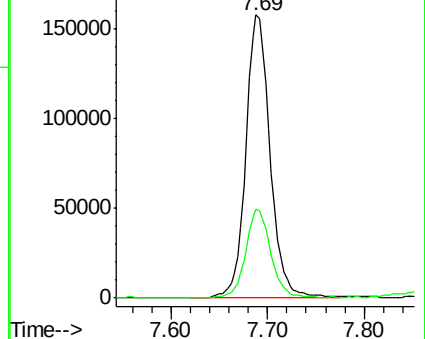
75 100

77 31.3 22.0 41.0



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#45

1,1,2-Trichloroethane

Concen: 2.050 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

Tgt Ion: 97 Resp: 108450

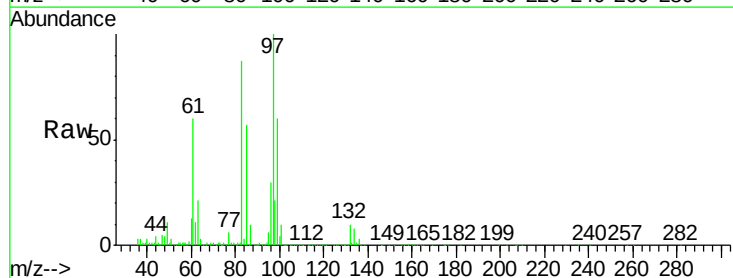
Ion Ratio Lower Upper

97 100

99 60.3 43.7 81.1

83 86.5 60.0 111.4

85 57.2 39.2 72.8

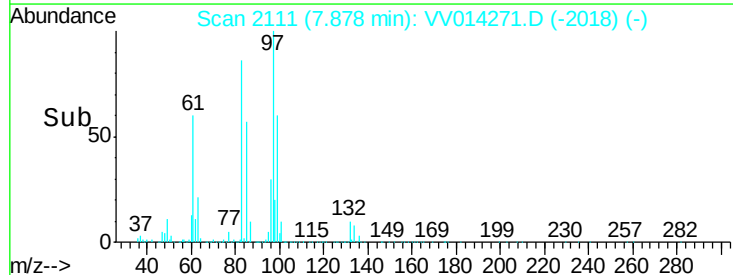
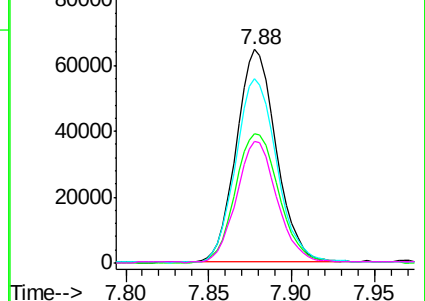


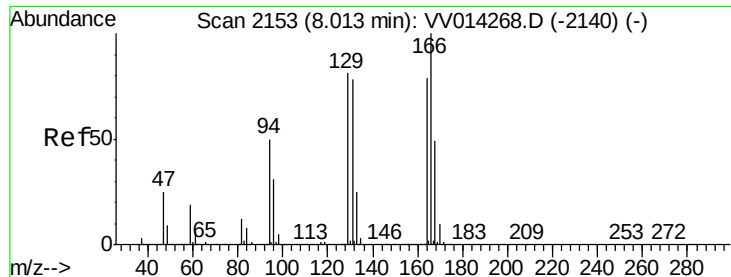
Abundance Ion 96.95 (96.65 to 97.65): VV0

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

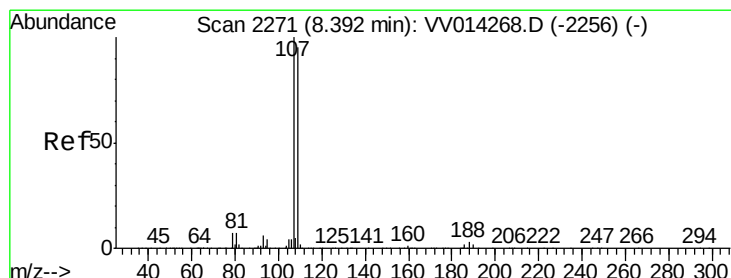
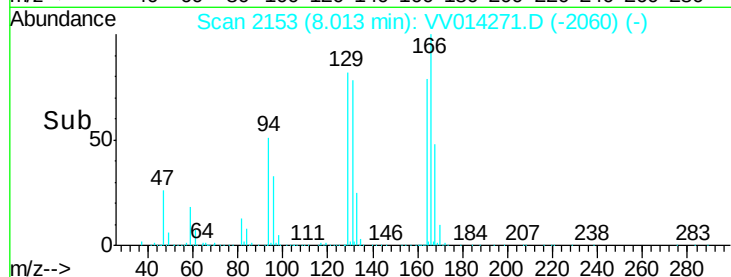
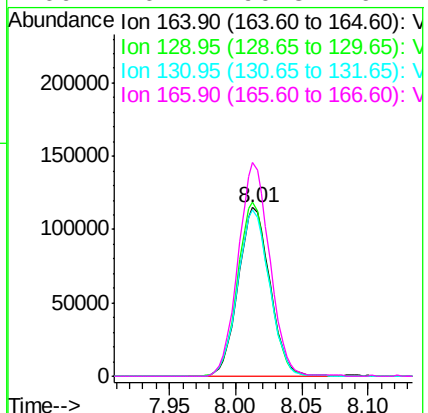
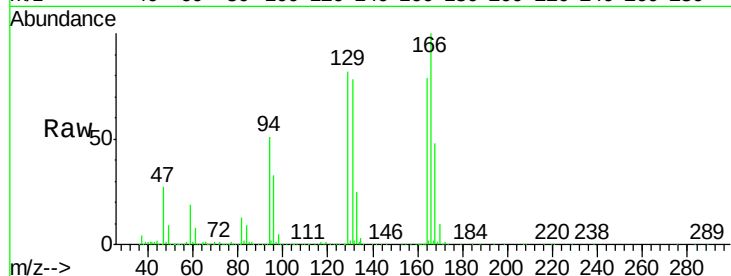




#47
Tetrachloroethene
Concen: 3.315 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VV014271.D
Acq: 10 Jan 2020 15:35

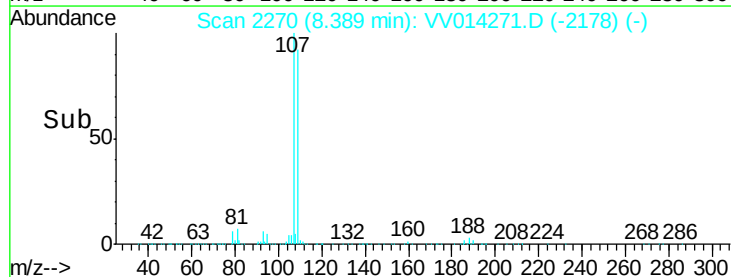
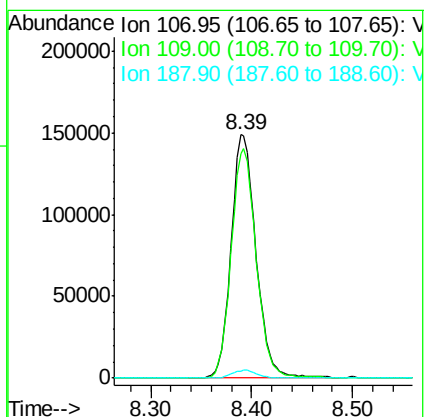
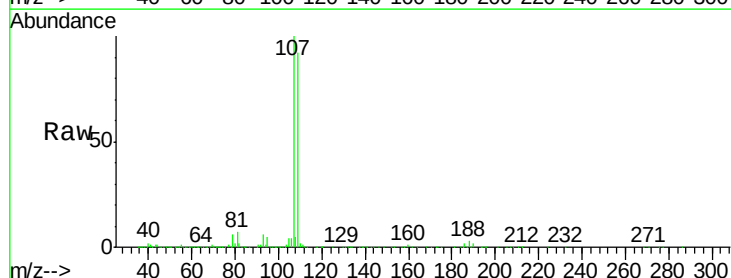
Instrument :
MSVOA_V
ClientSampleId :
GASD3

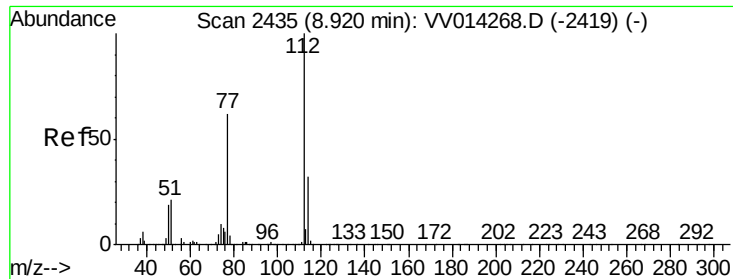
Tot Ion	Ratio	Lower	Upper
164	100		
129	103.4	71.7	133.3
131	98.7	70.4	130.8
166	126.7	90.3	167.7



#50
1,2-Dibromoethane
Concen: 5.002 ug/L
RT: 8.39 min Scan# 2270
Delta R.T. -0.00 min
Lab File: VV014271.D
Acq: 10 Jan 2020 15:35

Tgt Ion	Ratio	Lower	Upper
107	100		
109	92.3	63.0	117.0
188	3.0	3.0	4.4





#51

Chlorobenzene

Concen: 6.228 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

Instrument :

MSVOA_V

ClientSampled :

GASD3

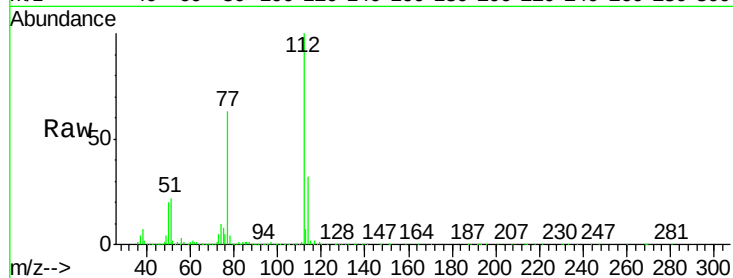
Tot Ion:112 Resp: 1326714

Ion Ratio Lower Upper

112 100

114 31.9 22.5 41.7

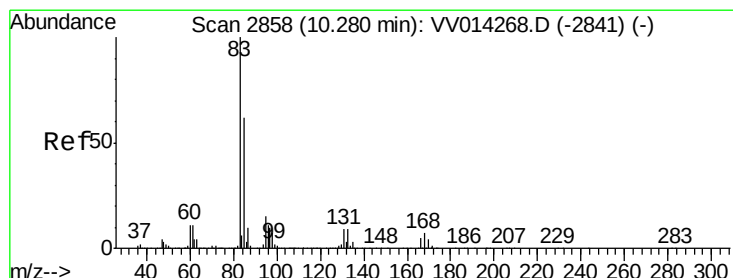
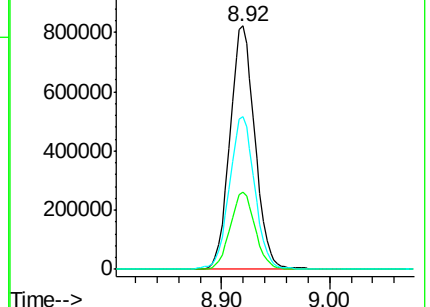
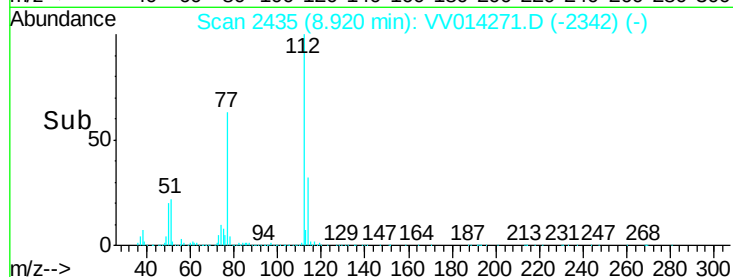
77 62.9 49.3 73.9



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 1.627 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

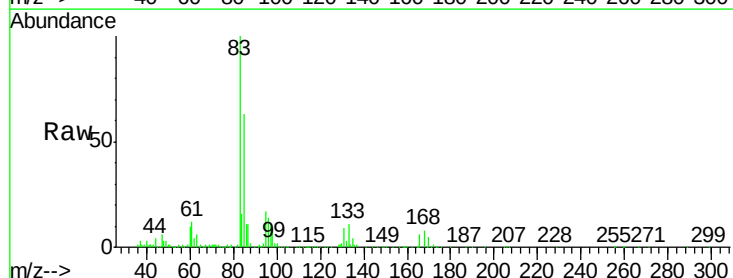
Tgt Ion: 83 Resp: 106183

Ion Ratio Lower Upper

83 100

85 62.7 45.9 85.3

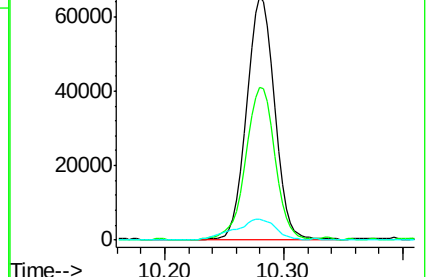
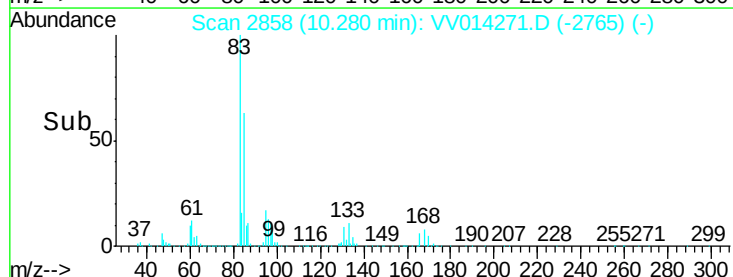
131 8.7 7.8 11.8

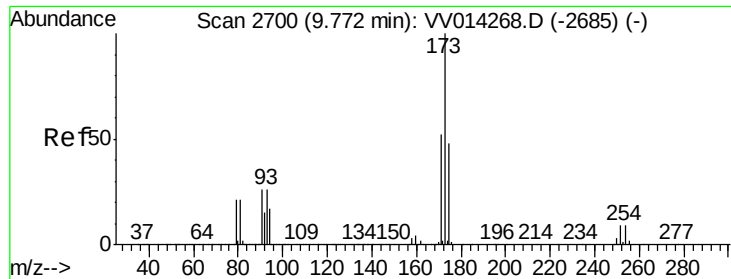


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#61

Bromoform

Concen: 3.078 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

Instrument :
MSVOA_V
ClientSampleId :
GASD3

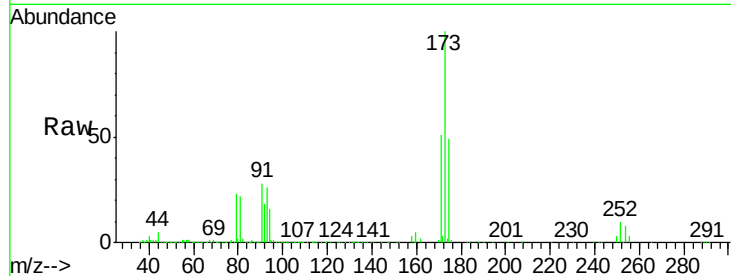
Tot Ion:173 Resp: 104183

Ion Ratio Lower Upper

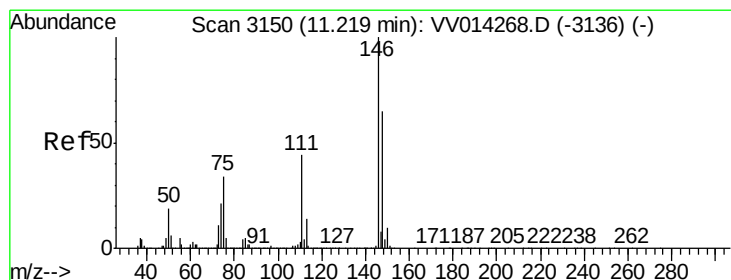
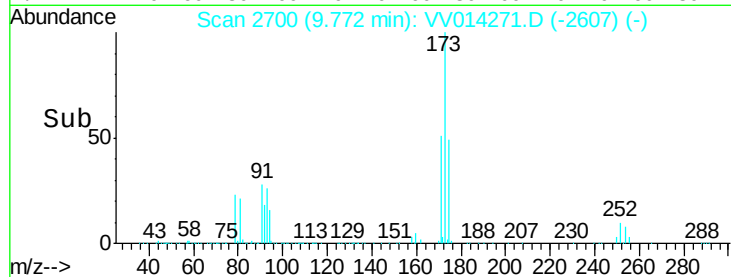
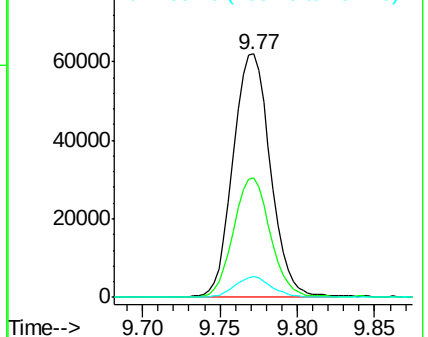
173 100

175 48.5 37.9 56.9

254 8.3 7.6 11.4



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



#62

1,3-Dichlorobenzene

Concen: 3.262 ug/L

RT: 11.22 min Scan# 3150

Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

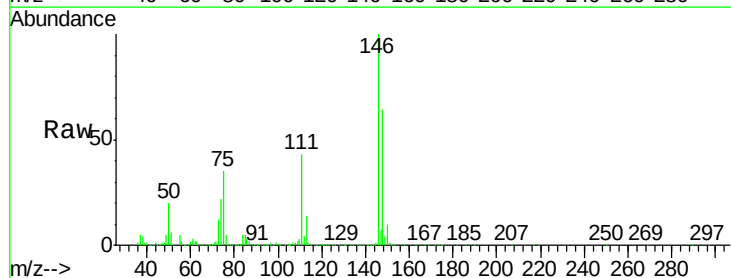
Tgt Ion:146 Resp: 509160

Ion Ratio Lower Upper

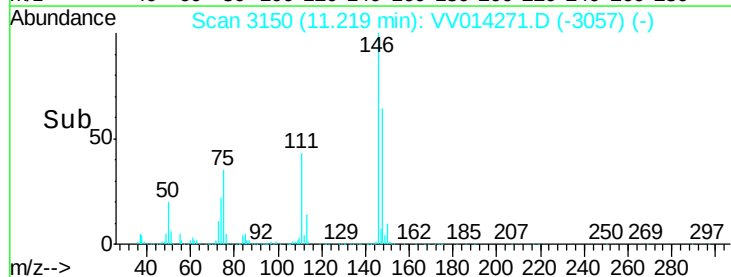
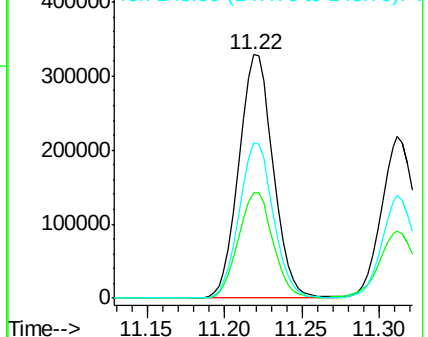
146 100

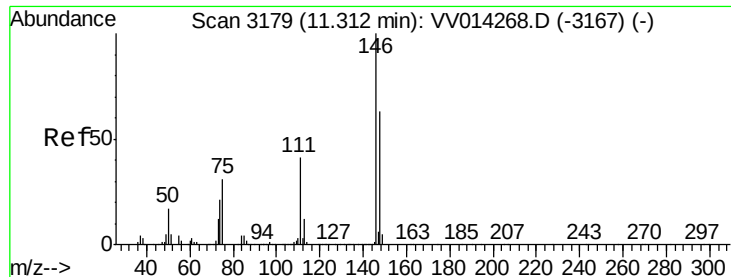
111 43.5 30.7 57.1

148 63.8 44.4 82.5



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

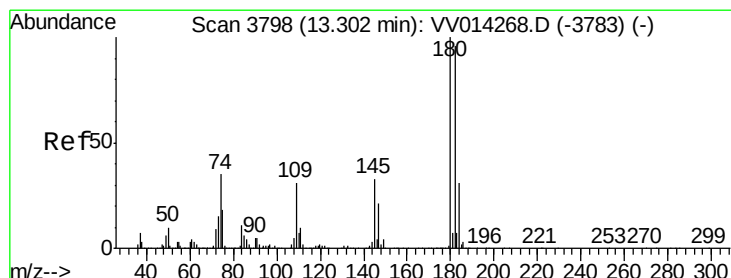
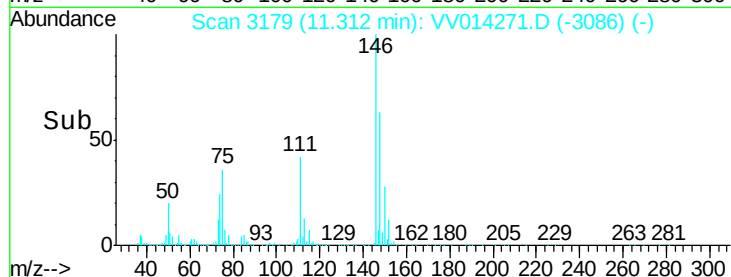
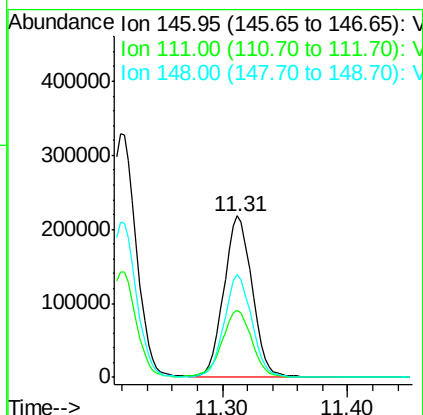
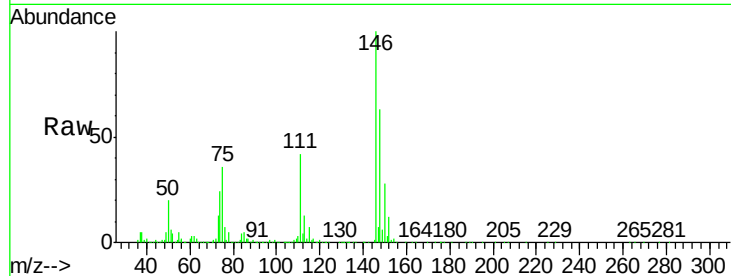




#63
1,4-Dichlorobenzene
Concen: 2.197 ug/L
RT: 11.31 min Scan# 3179
Delta R.T. 0.00 min
Lab File: VV014271.D
Acq: 10 Jan 2020 15:35

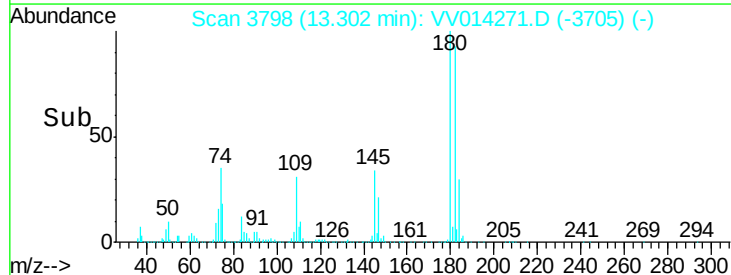
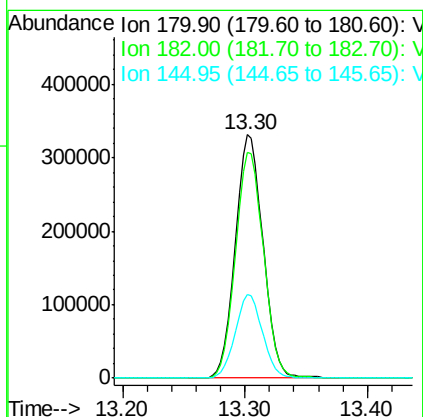
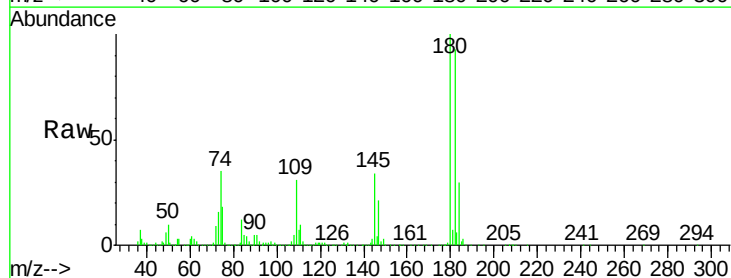
Instrument :
MSVOA_V
ClientSampled :
GASD3

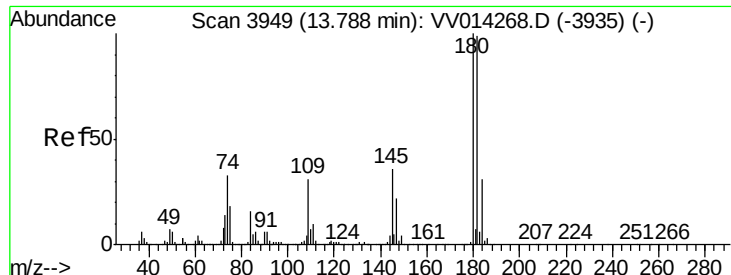
Tot Ion:146 Resp: 341014
Ion Ratio Lower Upper
146 100
111 41.7 28.8 53.4
148 63.3 44.5 82.7



#68
1,2,4-trichlorobenzene
Concen: 5.230 ug/L
RT: 13.30 min Scan# 3798
Delta R.T. 0.00 min
Lab File: VV014271.D
Acq: 10 Jan 2020 15:35

Tgt Ion:180 Resp: 520711
Ion Ratio Lower Upper
180 100
182 94.2 75.2 112.8
145 34.0 26.2 39.4





#70

1,2,3-Trichlorobenzene

Concen: 3.218 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014271.D

Acq: 10 Jan 2020 15:35

Instrument :

MSVOA_V

ClientSampleId :

GASD3

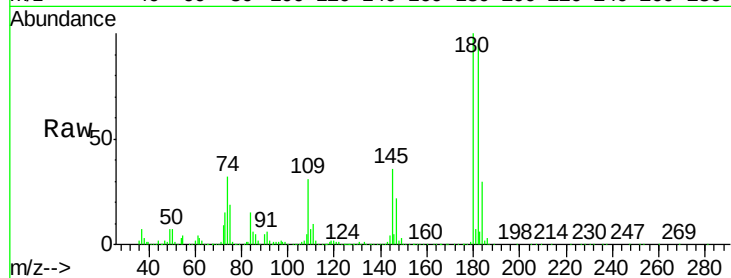
Tot Ion:180 Resp: 281889

Ion Ratio Lower Upper

180 100

182 94.0 74.8 112.2

145 36.0 29.0 43.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

