

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV122220\
 Data File : VV019804.D
 Acq On : 22 Dec 2020 19:10
 Operator : SY/MD
 Sample : VSTDCCC050EC
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05070

Quant Time: Dec 23 01:07:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM121020WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 23 01:05:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.62	114	716036	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.86	117	671903	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.26	152	321659	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	184859	36.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.00%
7) Chloroethane-d5	1.57	69	162676	40.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	80.34%
11) 1,1-Dichloroethene-d2	2.11	63	384996	40.40	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.80%
21) 2-Butanone-d5	3.89	46	382587	137.09	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	137.09%#
24) Chloroform-d	4.35	84	425092	45.94	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.88%
26) 1,2-Dichloroethane-d4	5.04	65	286835	47.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.86%
32) Benzene-d6	5.05	84	792561	44.23	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	88.46%
36) 1,2-Dichloropropane-d6	6.07	67	262842	46.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.64%
41) Toluene-d8	7.32	98	689189	42.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	85.44%
43) trans-1,3-Dichloropropene-	7.62	79	127845	40.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.08%
47) 2-Hexanone-d5	8.09	63	250556	113.73	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	113.73%
57) 1,1,2,2-Tetrachloroethane-	10.22	84	375041	49.39	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	98.78%
64) 1,2-Dichlorobenzene-d4	11.63	152	269459	44.81	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.62%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.13	85	233814	40.463	ug/L	100
3) Chloromethane	1.24	50	285682	46.511	ug/L	98
5) Vinyl chloride	1.31	62	275054	44.645	ug/L	99
6) Bromomethane	1.52	94	161725	43.711	ug/L	99
8) Chloroethane	1.59	64	173782	46.764	ug/L	99
9) Trichlorofluoromethane	1.75	101	333640	44.324	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	185630	44.656	ug/L	97
13) Acetone	2.19	43	267344	112.447	ug/L	99
14) Carbon disulfide	2.30	76	533470	38.061	ug/L	99
15) Methyl Acetate	2.44	43	287053	55.416	ug/L	99
16) Methylene chloride	2.51	84	241358	48.258	ug/L	95
17) trans-1,2-Dichloroethene	2.76	96	210766	45.078	ug/L	98
18) Methyl tert-butyl Ether	2.77	73	772129	47.261	ug/L	99
19) 1,1-Dichloroethane	3.19	63	448622	49.492	ug/L	99
20) cis-1,2-Dichloroethene	3.92	96	244744	47.617	ug/L #	99
22) 2-Butanone	3.98	43	407161	116.749	ug/L	96
23) Bromochloromethane	4.25	128	121773	48.152	ug/L	96

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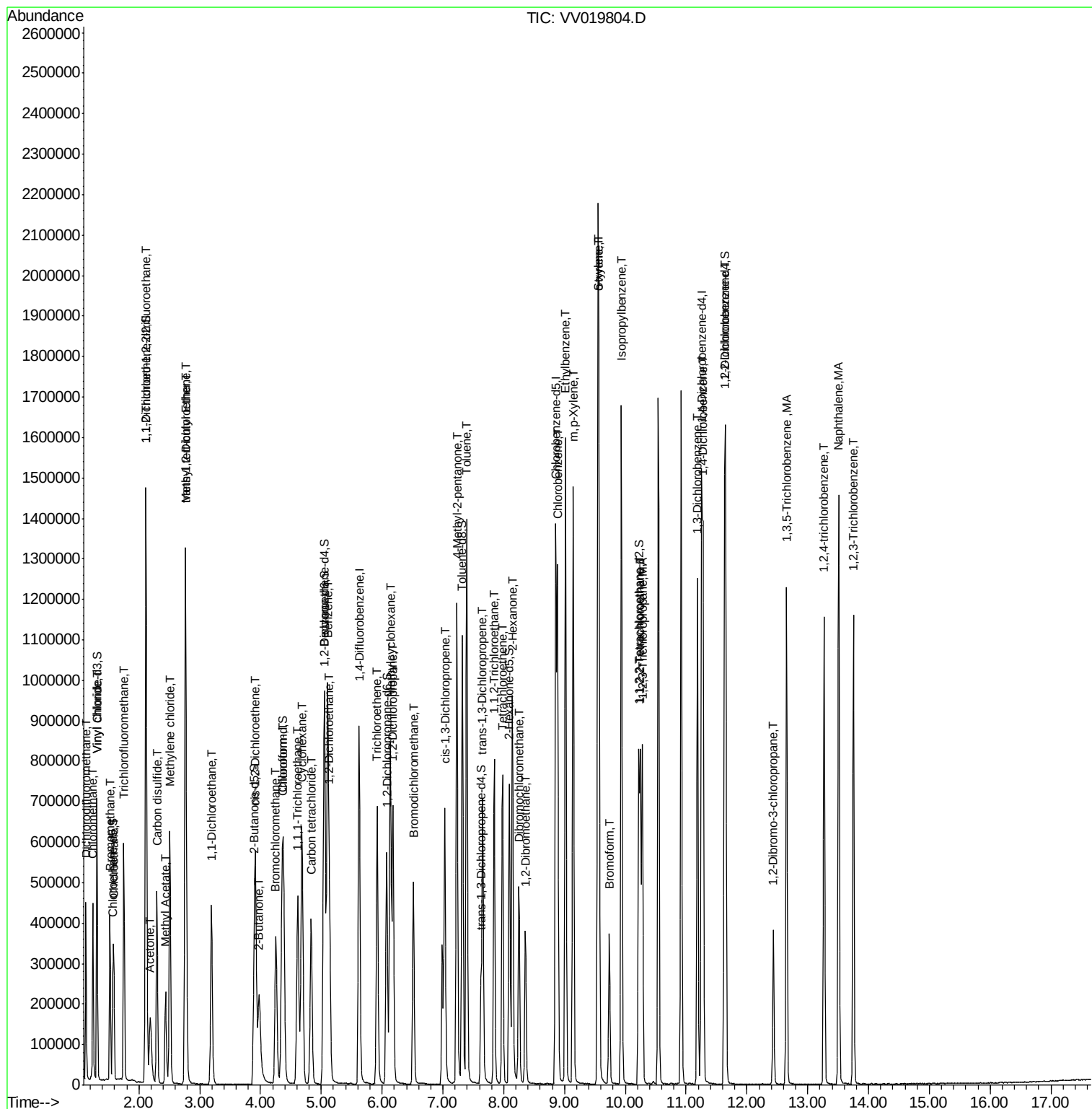
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.38	83	444144	49.060	ug/L	99
27) 1,2-Dichloroethane	5.14	62	363871	48.516	ug/L	98
29) Cyclohexane	4.68	56	353446	42.920	ug/L	97
30) 1,1,1-Trichloroethane	4.61	97	376407	44.678	ug/L	99
31) Carbon tetrachloride	4.83	117	296734	41.723	ug/L	99
33) Benzene	5.10	78	938422	47.789	ug/L	100
34) Trichloroethene	5.92	95	238974	46.069	ug/L	99
35) Methylcyclohexane	6.14	83	338937	43.010	ug/L	98
37) 1,2-Dichloropropane	6.18	63	258152	50.340	ug/L	99
38) Bromodichloromethane	6.51	83	325509	45.393	ug/L	99
39) cis-1,3-Dichloropropene	7.03	75	389816	45.769	ug/L	99
40) 4-Methyl-2-pentanone	7.23	43	794876	107.438	ug/L	97
42) Toluene	7.39	91	955098	46.148	ug/L	100
44) trans-1,3-Dichloropropene	7.66	75	376217	43.624	ug/L	100
45) 1,1,2-Trichloroethane	7.84	97	232560	47.755	ug/L	98
46) Tetrachloroethene	7.98	164	153283	42.705	ug/L	99
48) 2-Hexanone	8.14	43	611472	108.923	ug/L	97
49) Dibromochloromethane	8.25	129	235875	44.228	ug/L	98
50) 1,2-Dibromoethane	8.36	107	240935	46.982	ug/L	100
51) Chlorobenzene	8.89	112	608301	46.019	ug/L	99
52) Ethylbenzene	9.02	91	1074958	45.587	ug/L	98
53) m,p-Xylene	9.14	106	387908	44.033	ug/L	99
54) o-xylene	9.55	106	387573	44.885	ug/L	99
55) Styrene	9.57	104	684849	45.506	ug/L	99
56) Isopropylbenzene	9.94	105	1033453	44.925	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.25	83	383674	48.992	ug/L	99
59) 1,2,3-Trichloropropane	10.28	75	325752	51.070	ug/L	98
61) Bromoform	9.74	173	148286	41.664	ug/L	99
62) 1,3-Dichlorobenzene	11.19	146	453740	45.977	ug/L	99
63) 1,4-Dichlorobenzene	11.28	146	460045	46.035	ug/L	99
65) 1,2-Dichlorobenzene	11.65	146	467456	47.936	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.43	75	92017	45.204	ug/L	93
67) 1,3,5-Trichlorobenzene	12.65	180	329502	47.257	ug/L	100
68) 1,2,4-trichlorobenzene	13.27	180	304777	46.749	ug/L	100
69) Naphthalene	13.51	128	1037705	45.840	ug/L	99
70) 1,2,3-Trichlorobenzene	13.75	180	302514	47.483	ug/L	99

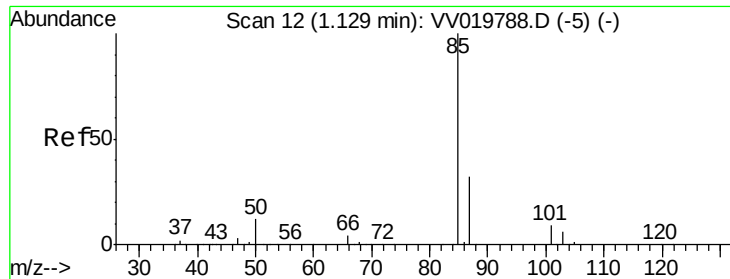
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 40.463 ug/L

RT: 1.13 min Scan# 12

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampled :

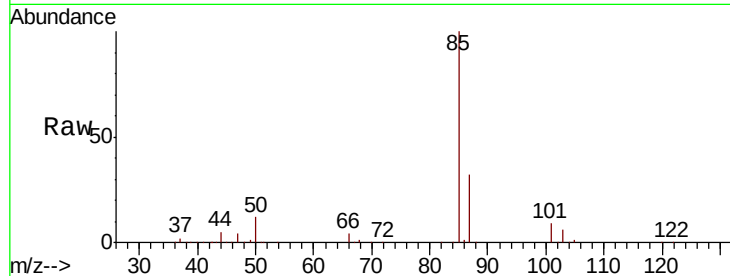
VSTD05070

Tot Ion: 85 Resp: 233814

Ion Ratio Lower Upper

85 100

87 31.9 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV019788.D (-5) (-)

Ion 87.00 (86.70 to 87.70): VV019788.D (-5) (-)

1.13

250000

200000

150000

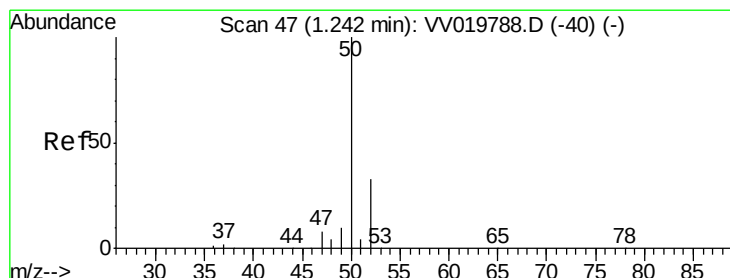
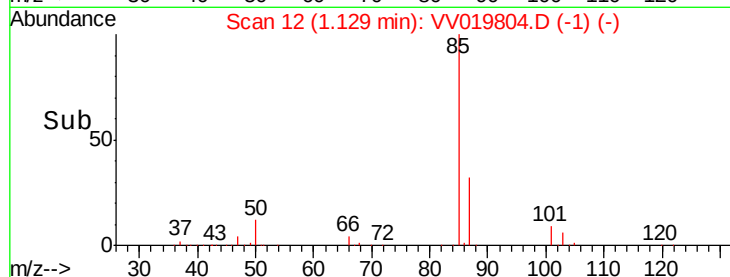
100000

50000

0

1.10 1.15 1.20

Time-->



#3

Chloromethane

Concen: 46.511 ug/L

RT: 1.24 min Scan# 47

Delta R.T. 0.00 min

Lab File: VV019804.D

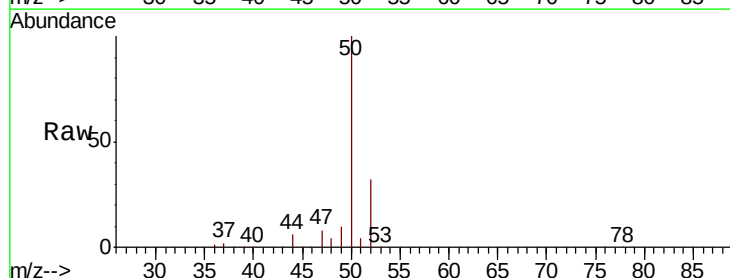
Acq: 22 Dec 2020 19:10

Tgt Ion: 50 Resp: 285682

Ion Ratio Lower Upper

50 100

52 31.7 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VV019788.D (-40) (-)

Ion 52.00 (51.70 to 52.70): VV019788.D (-40) (-)

1.24

300000

250000

200000

150000

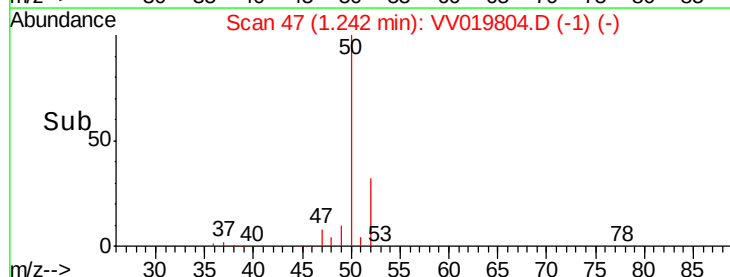
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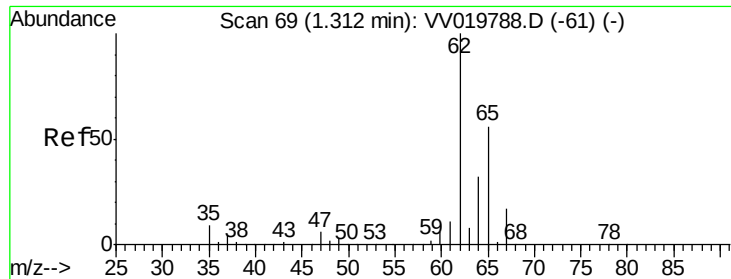
50000

0

1.20 1.25 1.30

Time-->





#5

Vinyl chloride

Concen: 44.645 ug/L

RT: 1.31 min Scan# 69

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

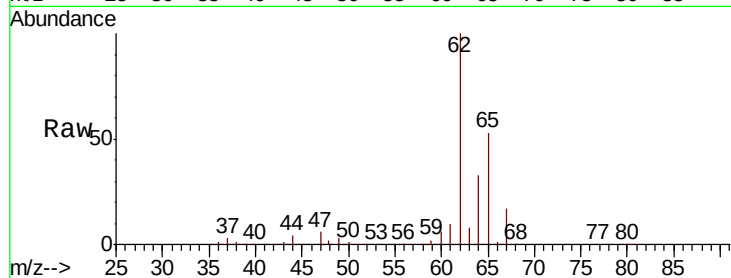
VSTD05070

Tot Ion: 62 Resp: 275054

Ion Ratio Lower Upper

62 100

64 32.6 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.31

250000

200000

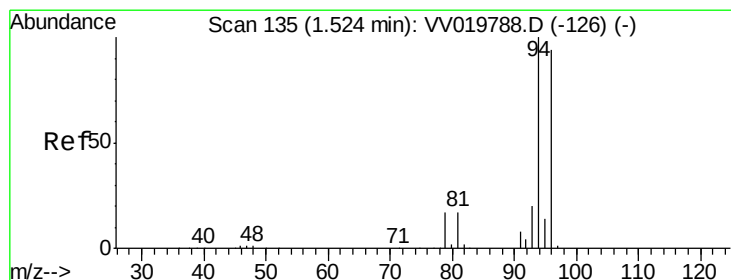
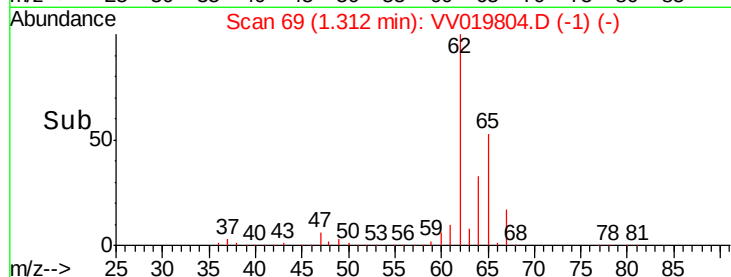
150000

100000

50000

0

Time--> 1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 43.711 ug/L

RT: 1.52 min Scan# 135

Delta R.T. 0.00 min

Lab File: VV019804.D

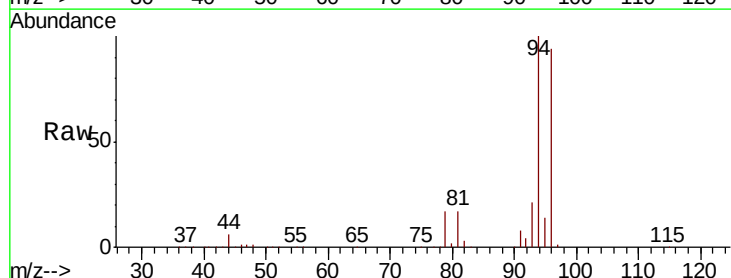
Acq: 22 Dec 2020 19:10

Tgt Ion: 94 Resp: 161725

Ion Ratio Lower Upper

94 100

96 94.1 65.2 121.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

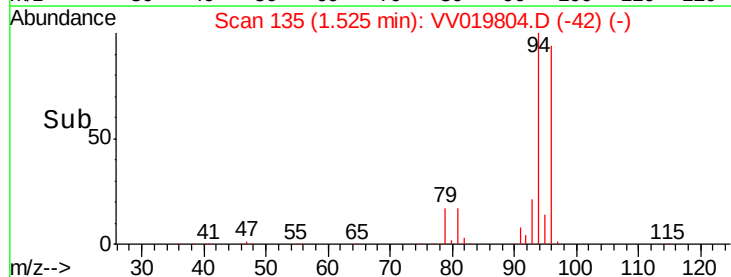
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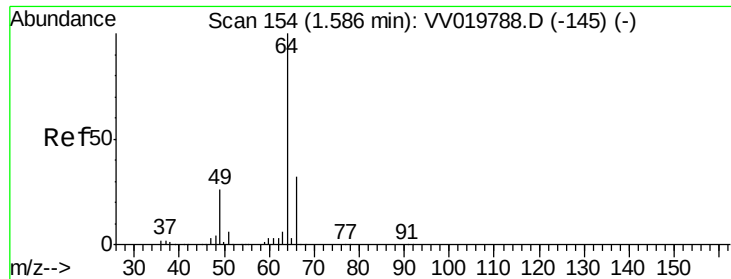
100000

50000

0

Time--> 1.45 1.50 1.55 1.60

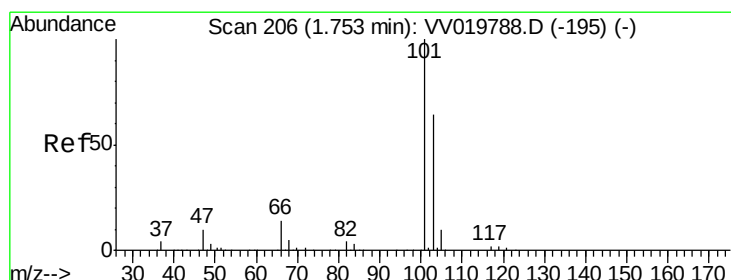
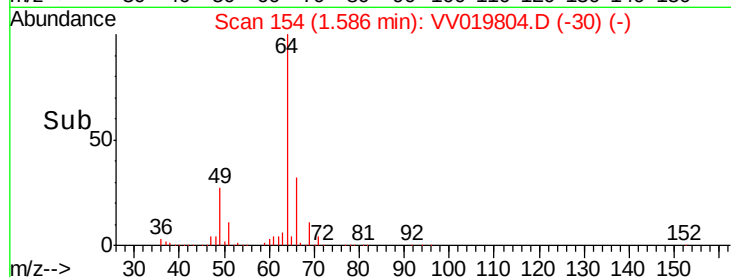
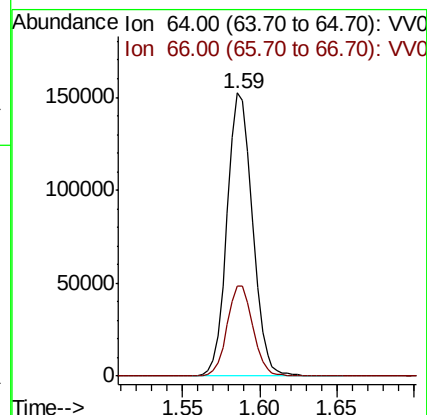
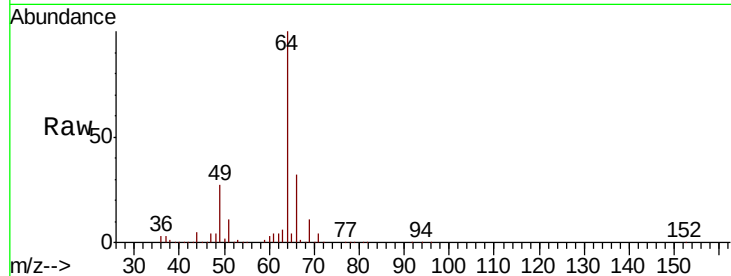




#8
Chloroethane
Concen: 46.764 ug/L
RT: 1.59 min Scan# 154
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

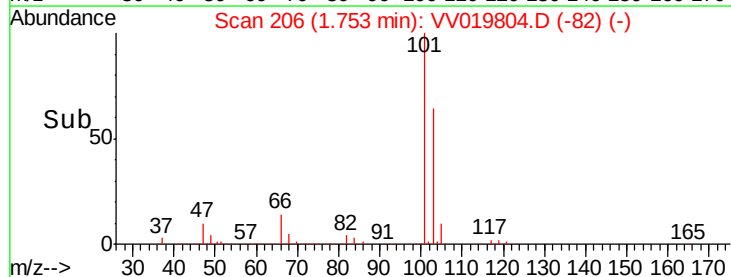
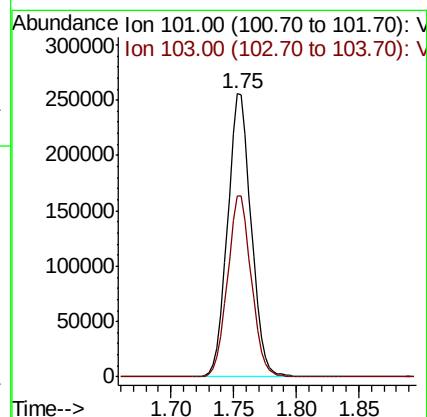
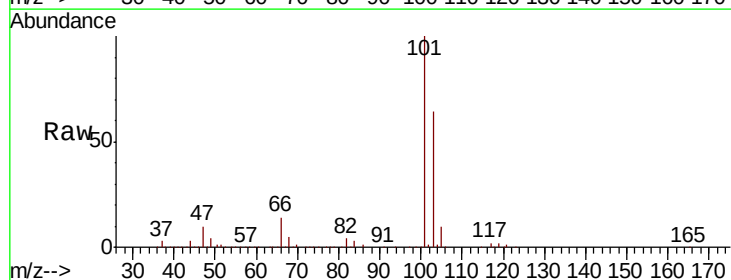
Instrument :
MSVOA_V
ClientSampleId :
VSTD05070

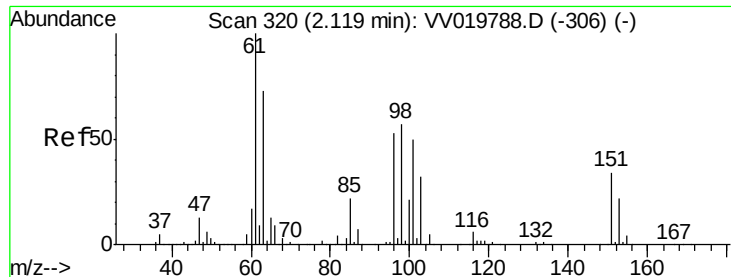
Tot Ion: 64 Resp: 173782
Ion Ratio Lower Upper
64 100
66 31.7 22.5 41.7



#9
Trichlorofluoromethane
Concen: 44.324 ug/L
RT: 1.75 min Scan# 206
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

Tgt Ion: 101 Resp: 333640
Ion Ratio Lower Upper
101 100
103 64.3 51.6 77.4





#10

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

Concen: 44.656 ug/L

RT: 2.12 min Scan# 320

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05070

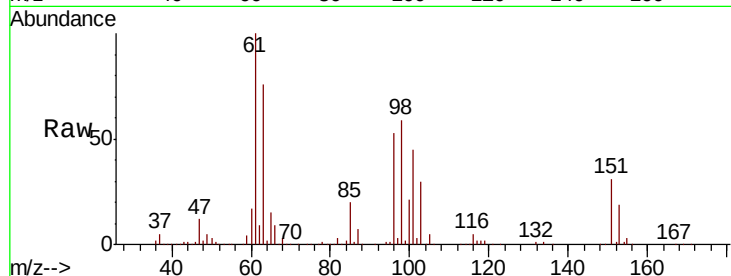
Tot Ion:101 Resp: 185630

Ion Ratio Lower Upper

101 100

85 45.5 35.0 52.4

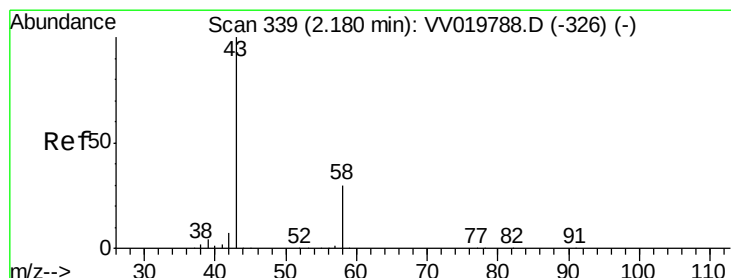
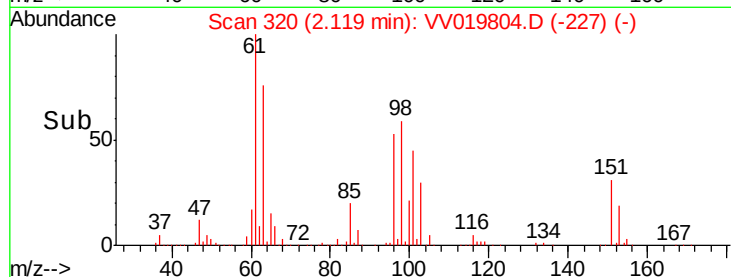
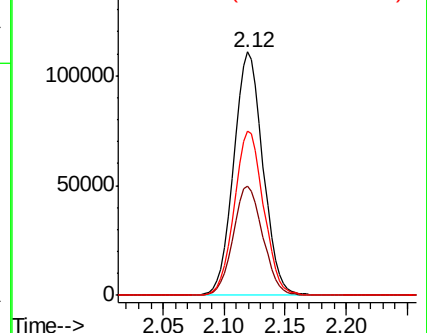
151 67.6 55.8 83.8



Abundance Ion 101.00 (100.70 to 101.70): VV019788.D (-306) (-)

Ion 85.00 (84.70 to 85.70): VV019788.D (-306) (-)

Ion 151.00 (150.70 to 151.70): VV019788.D (-306) (-)



#13

Acetone

Concen: 112.447 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.01 min

Lab File: VV019804.D

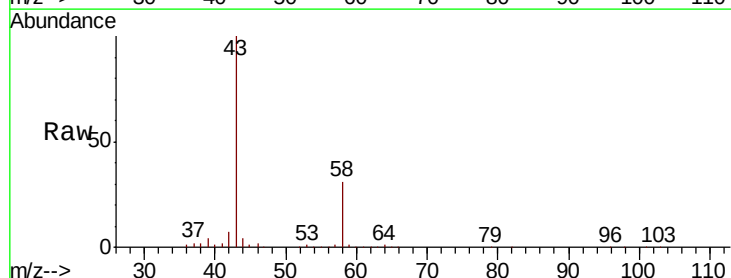
Acq: 22 Dec 2020 19:10

Tgt Ion: 43 Resp: 267344

Ion Ratio Lower Upper

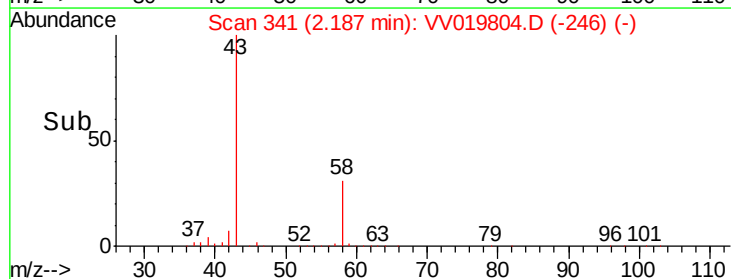
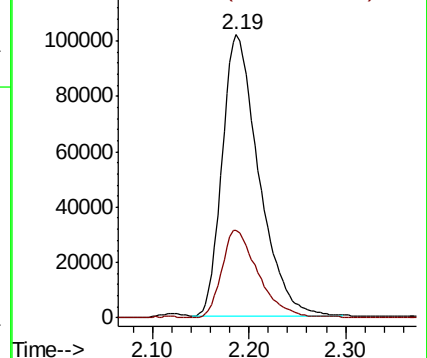
43 100

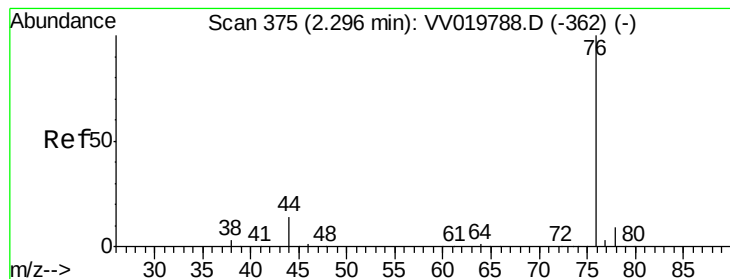
58 31.2 0.0 61.6



Abundance Ion 43.00 (42.70 to 43.70): VV019788.D (-326) (-)

Ion 58.00 (57.70 to 58.70): VV019788.D (-326) (-)





#14

Carbon disulfide

Concen: 38.061 ug/L

RT: 2.30 min Scan# 375

Delta R.T. 0.00 min

Lab File: VV019804.D

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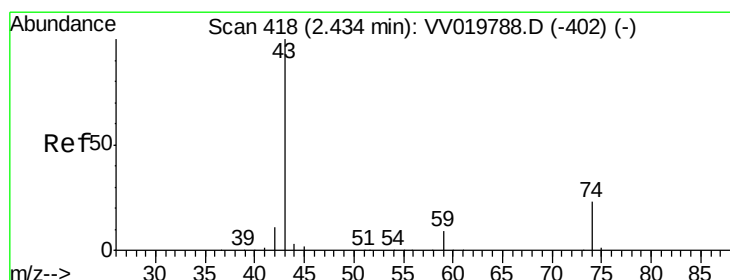
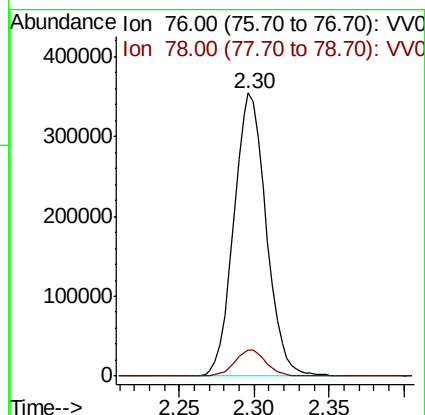
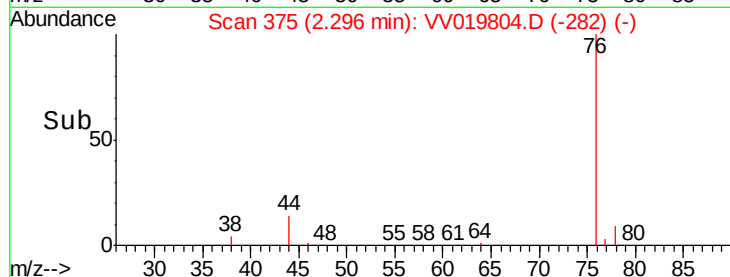
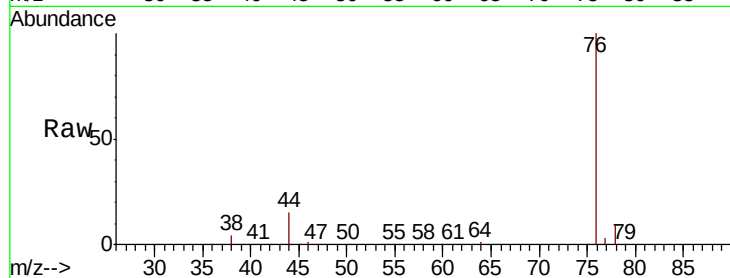
VSTD05070

Tot Ion: 76 Resp: 533470

Ion Ratio Lower Upper

76 100

78 9.3 7.2 10.8



#15

Methyl Acetate

Concen: 55.416 ug/L

RT: 2.44 min Scan# 419

Delta R.T. 0.00 min

Lab File: VV019804.D

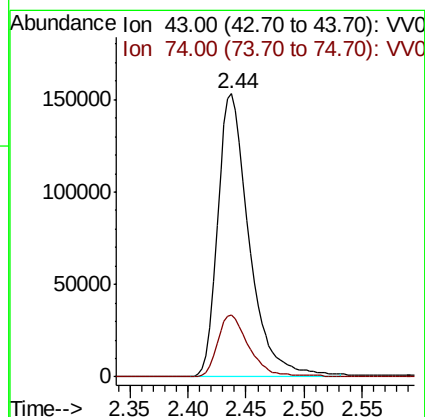
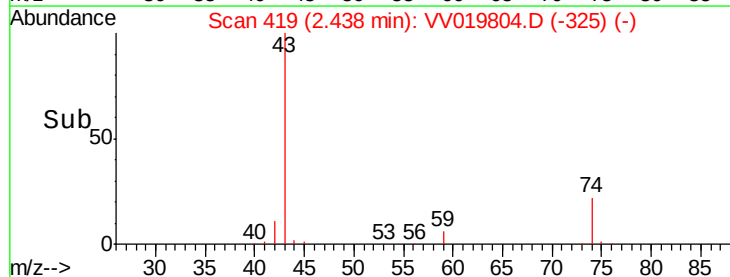
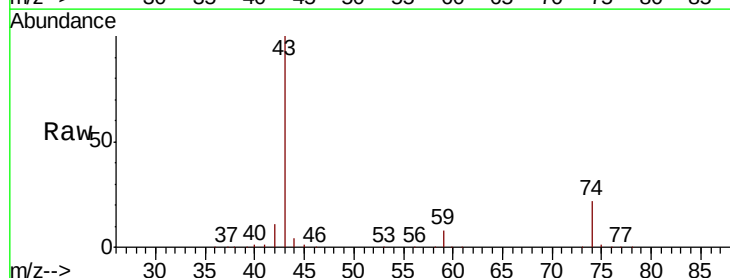
Acq: 22 Dec 2020 19:10

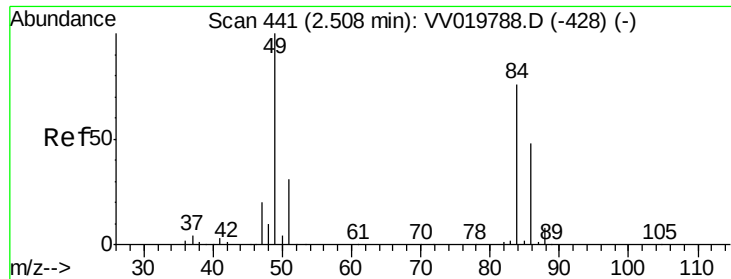
Tgt Ion: 43 Resp: 287053

Ion Ratio Lower Upper

43 100

74 22.4 18.2 27.4

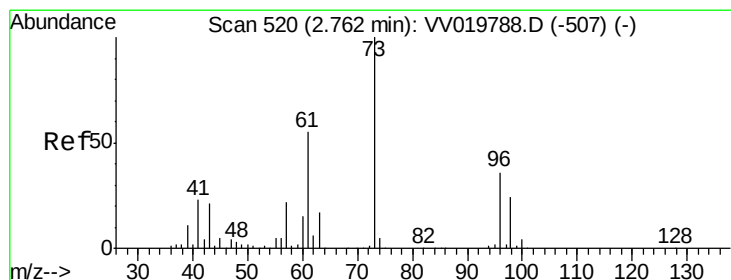
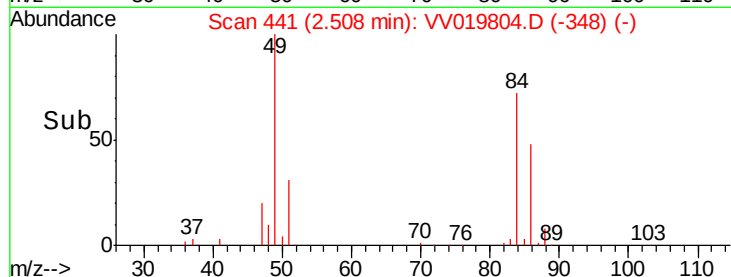
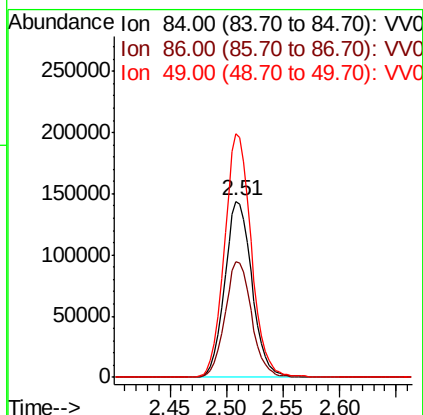
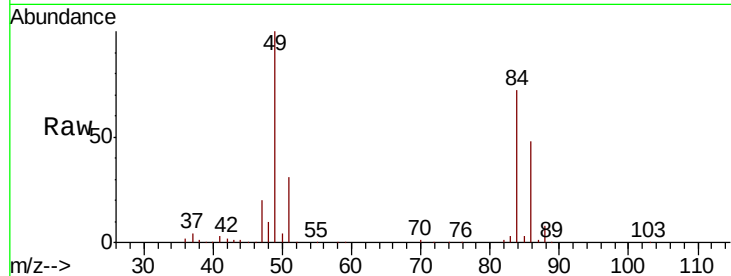




#16
Methylene chloride
Concen: 48.258 ug/L
RT: 2.51 min Scan# 441
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

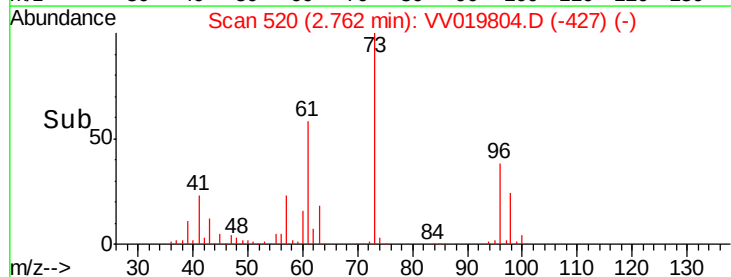
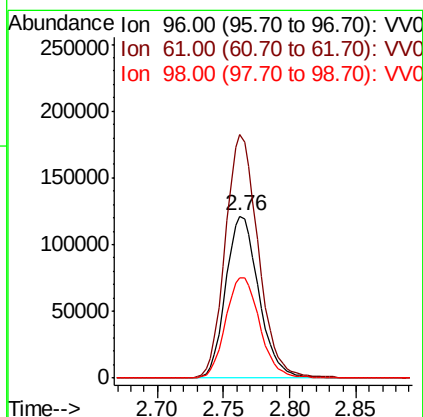
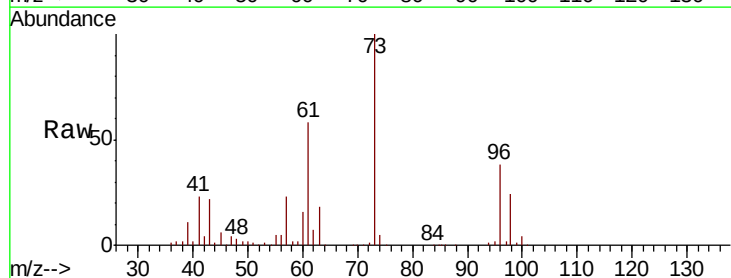
Instrument :
MSVOA_V
ClientSampleId :
VSTD05070

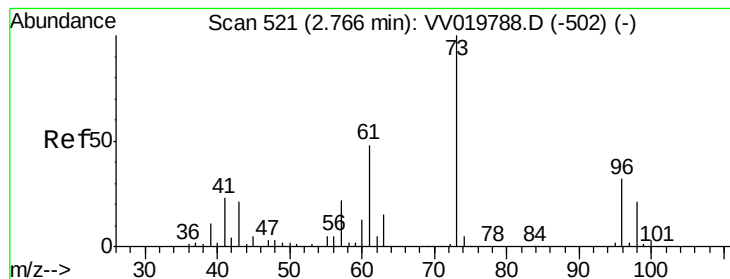
Tot Ion: 84 Resp: 241358
Ion Ratio Lower Upper
84 100
86 65.7 45.7 84.9
49 138.2 90.6 168.3



#17
trans-1,2-Dichloroethene
Concen: 45.078 ug/L
RT: 2.76 min Scan# 520
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

Tgt Ion: 96 Resp: 210766
Ion Ratio Lower Upper
96 100
61 150.5 103.5 192.1
98 62.3 44.4 82.5



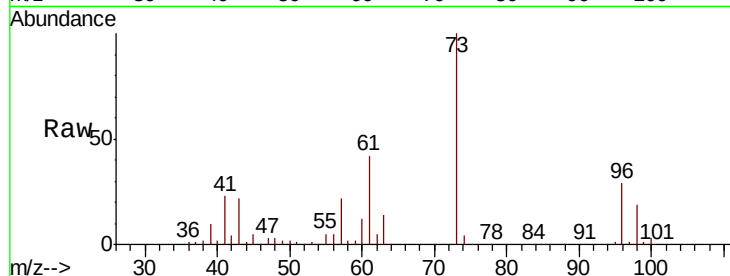


#18

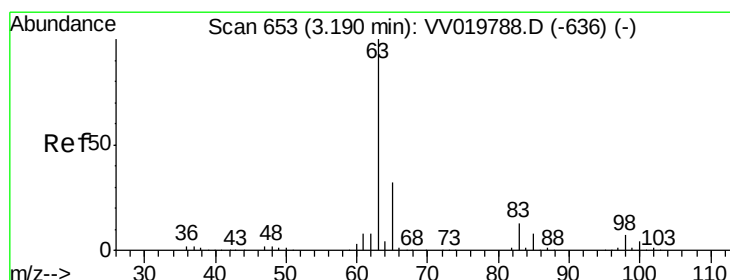
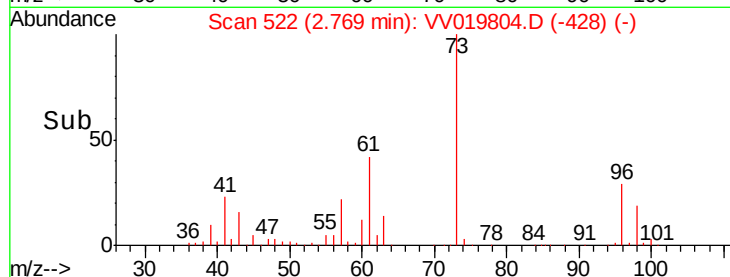
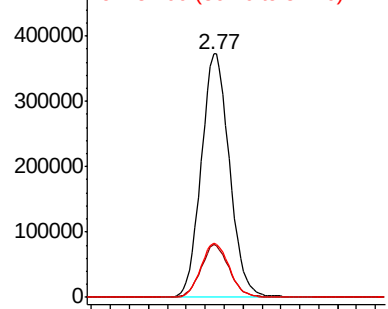
Methyl tert-butyl Ether
 Concen: 47.261 ug/L
 RT: 2.77 min Scan# 522
 Delta R.T. 0.00 min
 Lab File: VV019804.D
 Acq: 22 Dec 2020 19:10

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05070

Tot Ion: 73 Resp: 772129
 Ion Ratio Lower Upper
 73 100
 43 21.3 17.3 25.9
 57 22.4 17.5 26.3



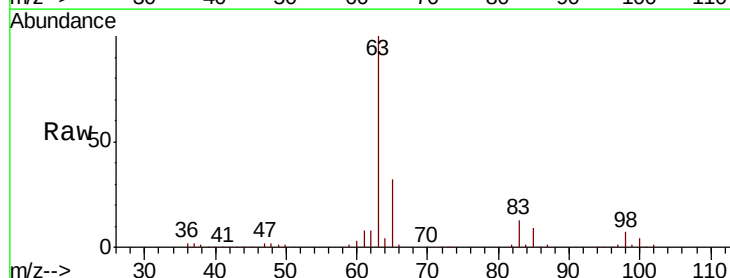
Abundance Ion 73.00 (72.70 to 73.70): VV0
 Ion 43.00 (42.70 to 43.70): VV0
 Ion 57.00 (56.70 to 57.70): VV0



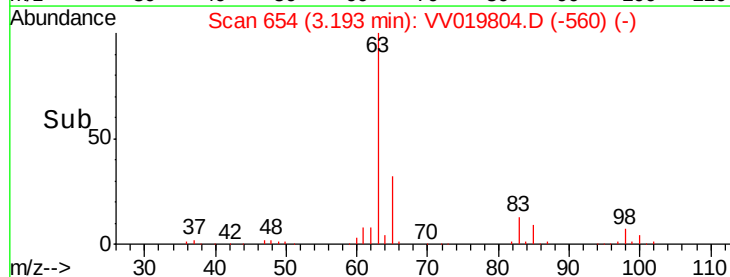
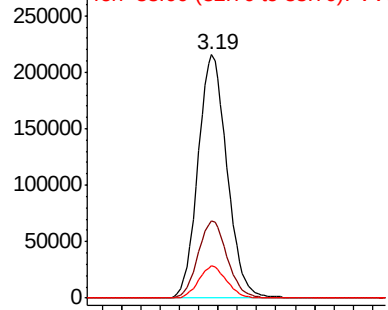
#19

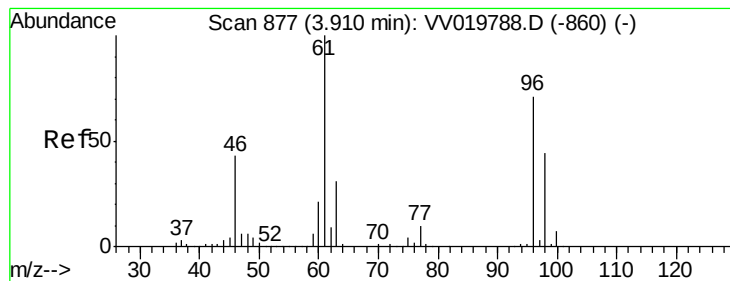
1,1-Dichloroethane
 Concen: 49.492 ug/L
 RT: 3.19 min Scan# 654
 Delta R.T. 0.00 min
 Lab File: VV019804.D
 Acq: 22 Dec 2020 19:10

Tgt Ion: 63 Resp: 448622
 Ion Ratio Lower Upper
 63 100
 65 31.5 22.4 41.6
 83 13.1 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VV0
 Ion 65.00 (64.70 to 65.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0





#20

cis-1,2-Dichloroethene

Concen: 47.617 ug/L

RT: 3.92 min Scan# 879

Delta R.T. 0.01 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05070

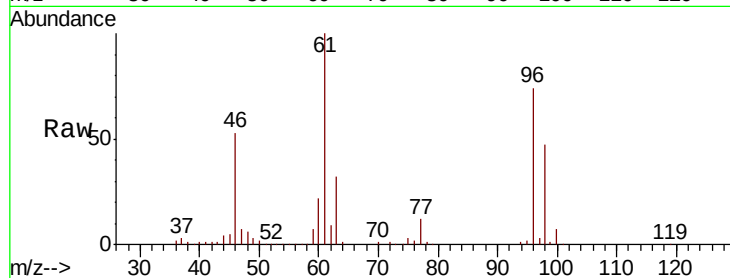
Tot Ion: 96 Resp: 244744

Ion Ratio Lower Upper

96 100

61 135.1 94.1 174.8

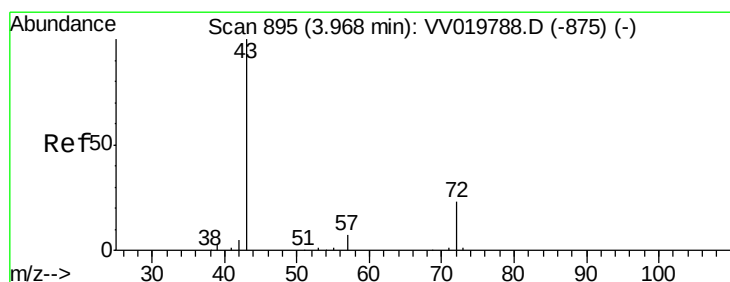
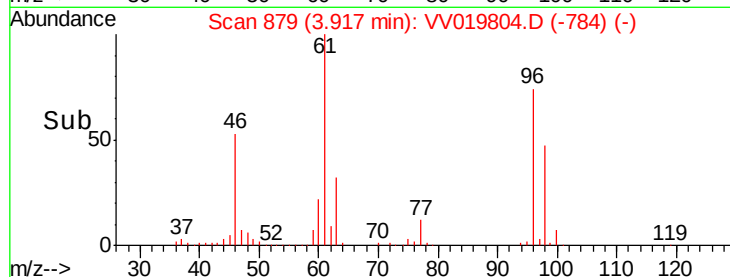
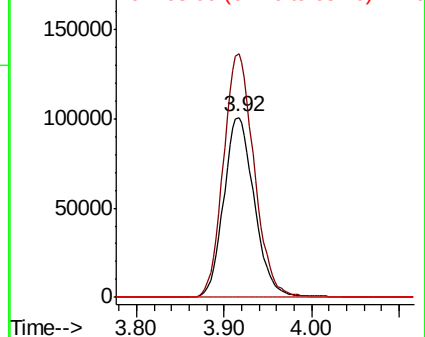
68 0.0 0.1 0.1#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0



#22

2-Butanone

Concen: 116.749 ug/L

RT: 3.98 min Scan# 898

Delta R.T. 0.01 min

Lab File: VV019804.D

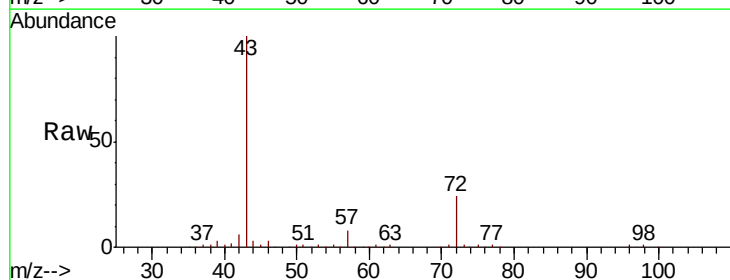
Acq: 22 Dec 2020 19:10

Tgt Ion: 43 Resp: 407161

Ion Ratio Lower Upper

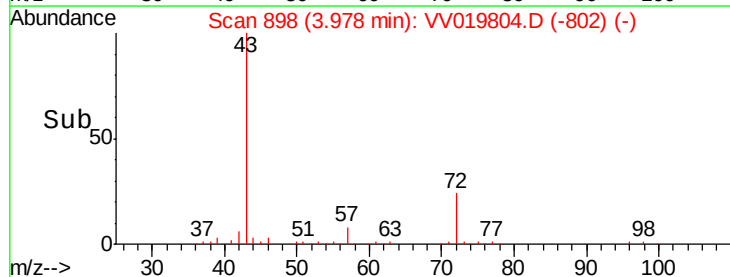
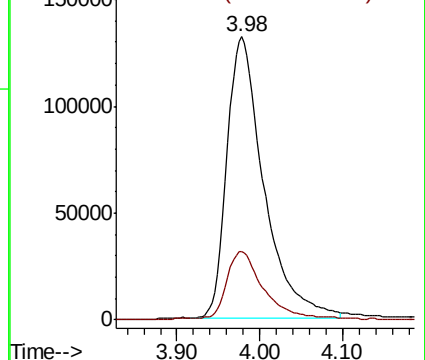
43 100

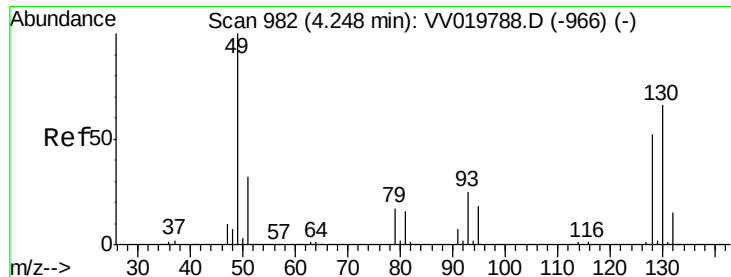
72 22.8 12.3 36.9



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0





#23

Bromochloromethane

Concen: 48.152 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.01 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05070

Tot Ion:128 Resp: 121773

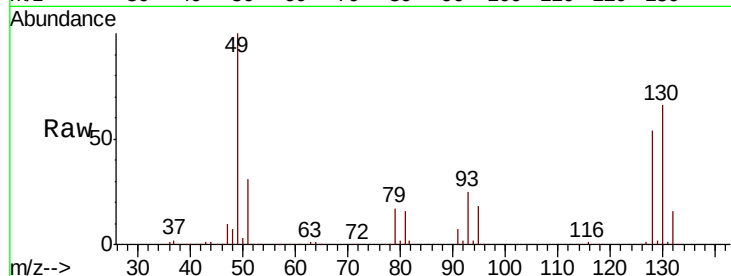
Ion Ratio Lower Upper

128 100

49 186.3 127.0 235.8

130 122.9 90.3 167.7

51 57.3 44.5 66.7

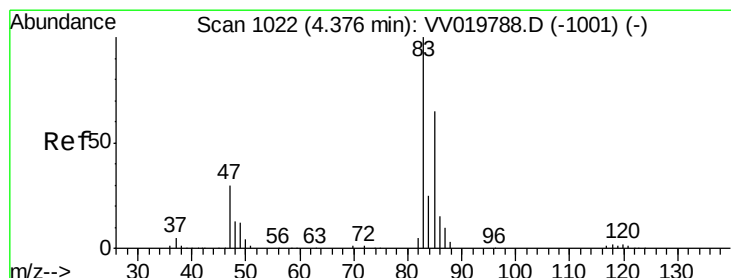
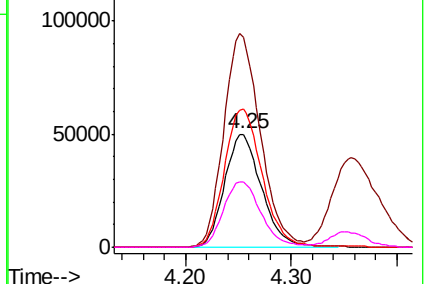
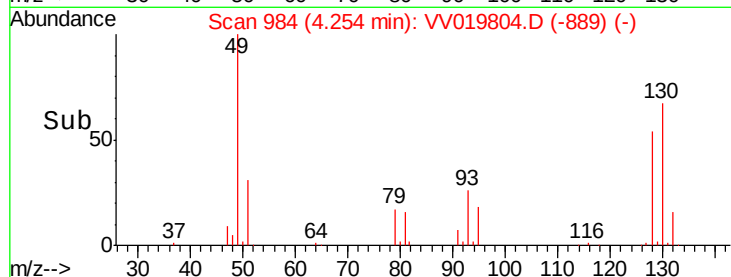


Abundance Ion 128.00 (127.70 to 128.70): VV019788.D (-966) (-)

Ion 49.00 (48.70 to 49.70): VV019788.D (-966) (-)

Ion 130.00 (129.70 to 130.70): VV019788.D (-966) (-)

Ion 51.00 (50.70 to 51.70): VV019788.D (-966) (-)



#25

Chloroform

Concen: 49.060 ug/L

RT: 4.38 min Scan# 1023

Delta R.T. 0.00 min

Lab File: VV019804.D

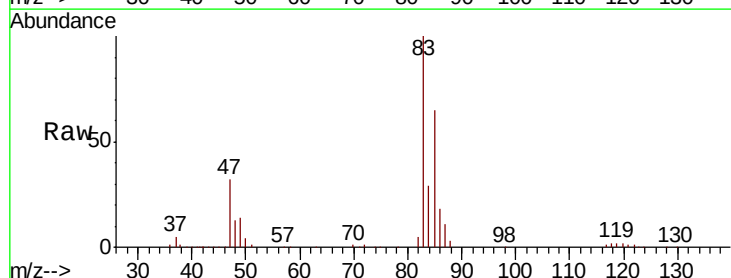
Acq: 22 Dec 2020 19:10

Tgt Ion: 83 Resp: 444144

Ion Ratio Lower Upper

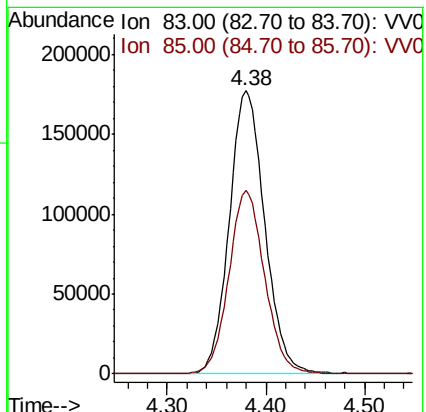
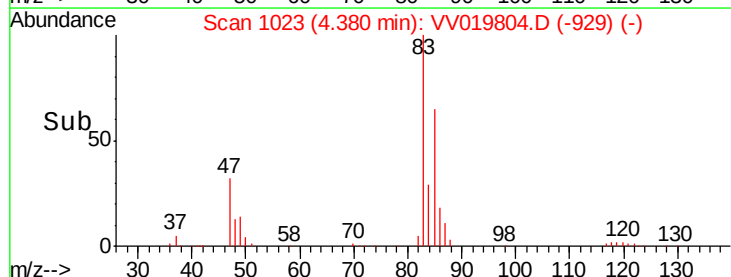
83 100

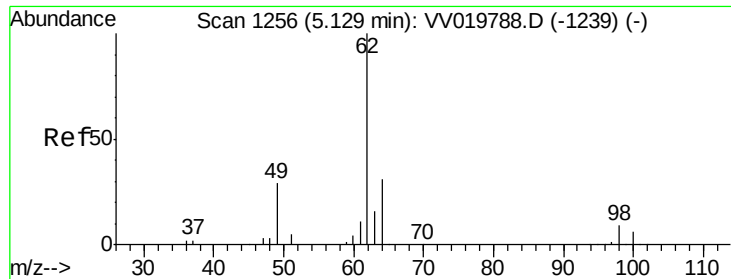
85 64.7 45.6 84.6



Abundance Ion 83.00 (82.70 to 83.70): VV019788.D (-1001) (-)

Ion 85.00 (84.70 to 85.70): VV019788.D (-1001) (-)

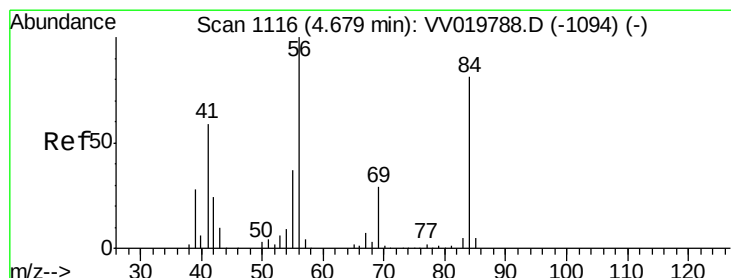
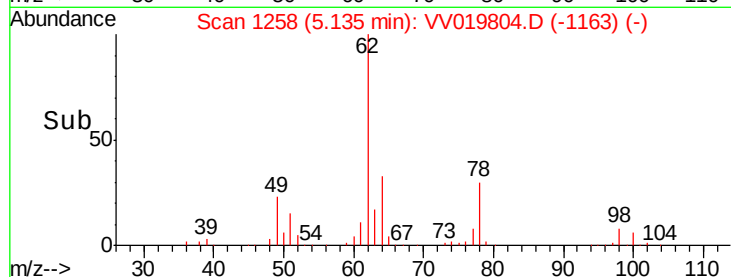
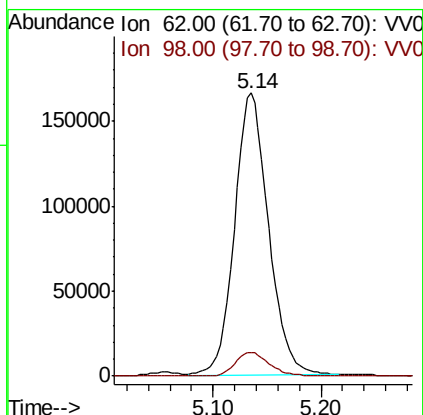
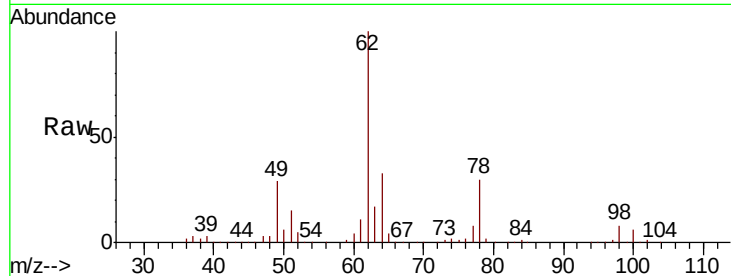




#27
 1,2-Dichloroethane
 Concen: 48.516 ug/L
 RT: 5.14 min Scan# 1258
 Delta R.T. 0.01 min
 Lab File: VV019804.D
 Acq: 22 Dec 2020 19:10

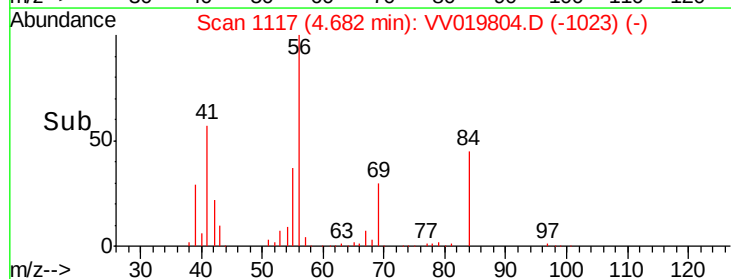
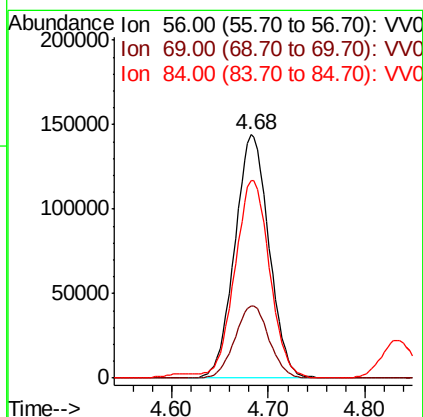
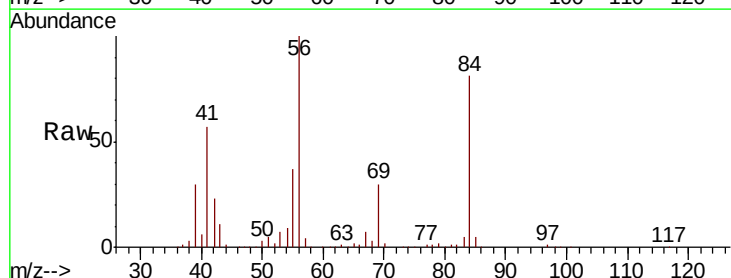
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05070

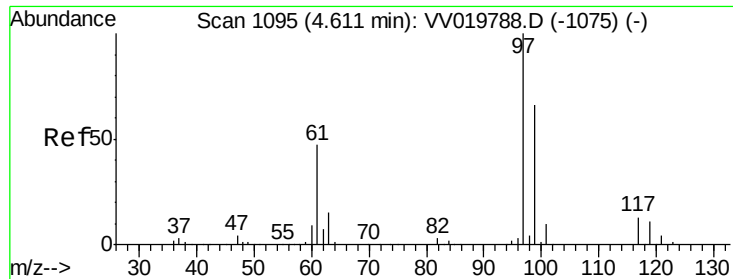
Tot Ion: 62 Resp: 363871
 Ion Ratio Lower Upper
 62 100
 98 8.5 7.4 11.0



#29
 Cyclohexane
 Concen: 42.920 ug/L
 RT: 4.68 min Scan# 1117
 Delta R.T. 0.00 min
 Lab File: VV019804.D
 Acq: 22 Dec 2020 19:10

Tgt Ion: 56 Resp: 353446
 Ion Ratio Lower Upper
 56 100
 69 29.7 24.6 37.0
 84 82.6 68.2 102.4

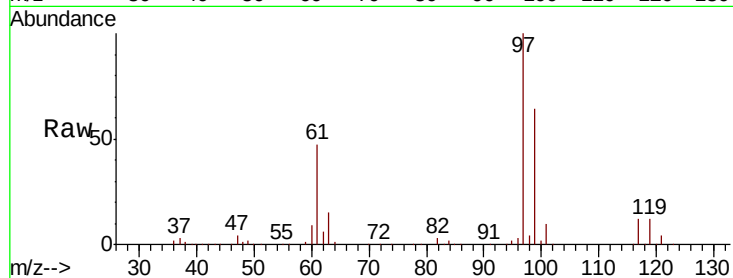




#30
 1,1,1-Trichloroethane
 Concen: 44.678 ug/L
 RT: 4.61 min Scan# 1096
 Delta R.T. 0.00 min
 Lab File: VV019804.D
 Acq: 22 Dec 2020 19:10

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05070

Tot Ion	97	Resp	376407
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.3	76.9
61	47.0	36.3	54.5

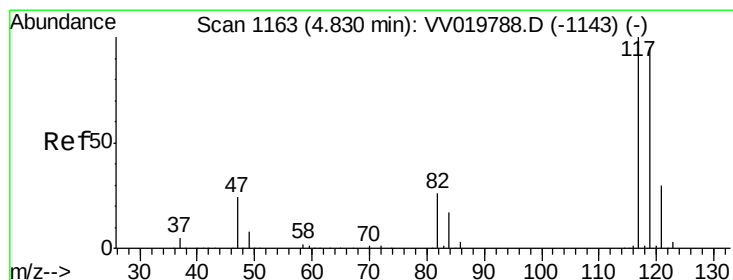
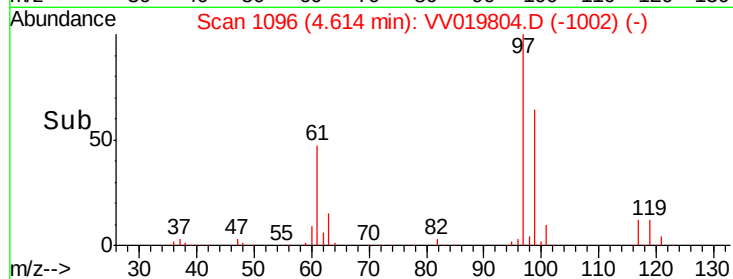
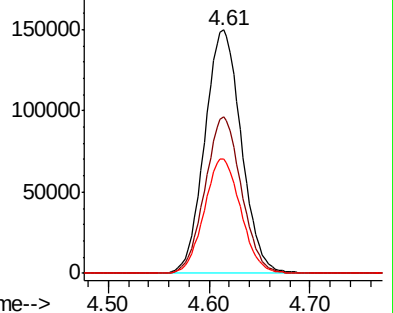


Abundance

Ion 97.00 (96.70 to 97.70): VV019788.D (-1075) (-)

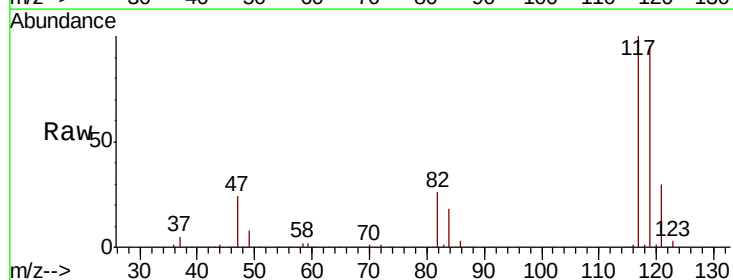
Ion 99.00 (98.70 to 99.70): VV019788.D (-1075) (-)

Ion 61.05 (60.75 to 61.75): VV019788.D (-1075) (-)



#31
 Carbon tetrachloride
 Concen: 41.723 ug/L
 RT: 4.83 min Scan# 1164
 Delta R.T. 0.00 min
 Lab File: VV019804.D
 Acq: 22 Dec 2020 19:10

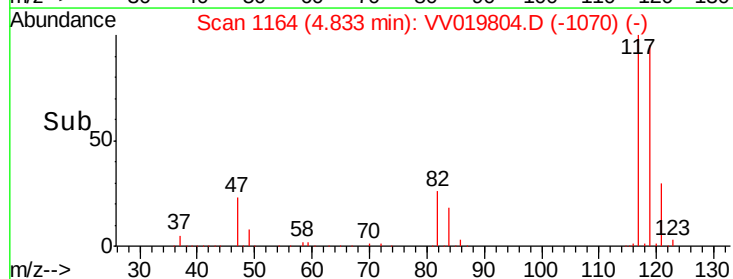
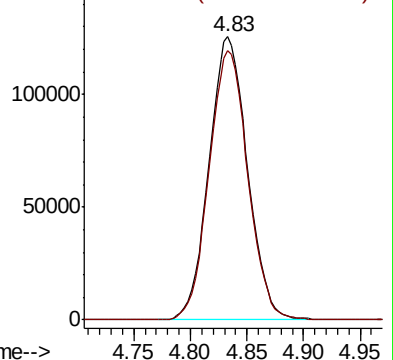
Tgt Ion	117	Resp	296734
Ion	Ratio	Lower	Upper
117	100		
119	95.9	75.7	113.5

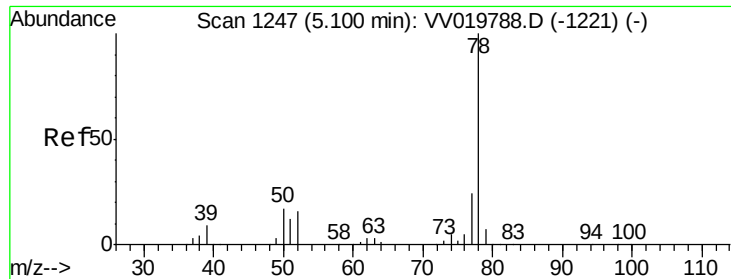


Abundance

Ion 117.00 (116.70 to 117.70): VV019788.D (-1143) (-)

Ion 119.00 (118.70 to 119.70): VV019788.D (-1143) (-)





#33

Benzene

Concen: 47.789 ug/L

RT: 5.10 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

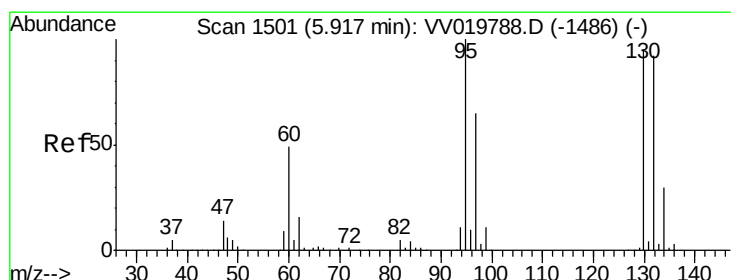
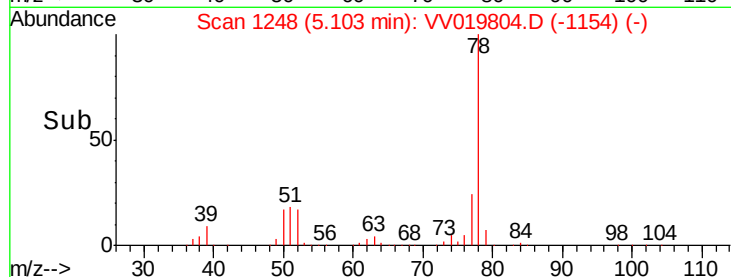
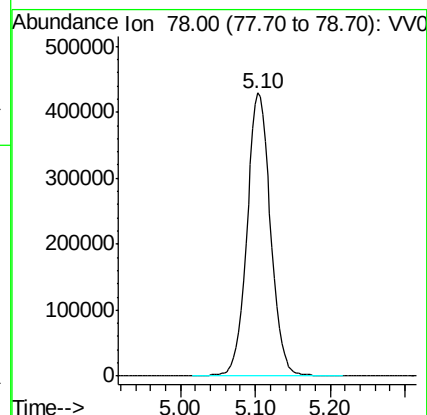
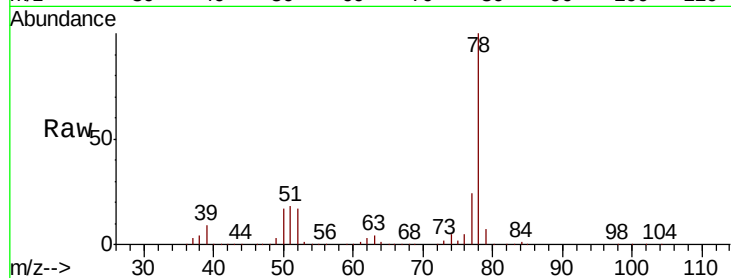
Instrument :

MSVOA_V

ClientSampleId :

VSTD05070

Tgt Ion: 78 Resp: 938422



#34

Trichloroethene

Concen: 46.069 ug/L

RT: 5.92 min Scan# 1502

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Tgt Ion: 95 Resp: 238974

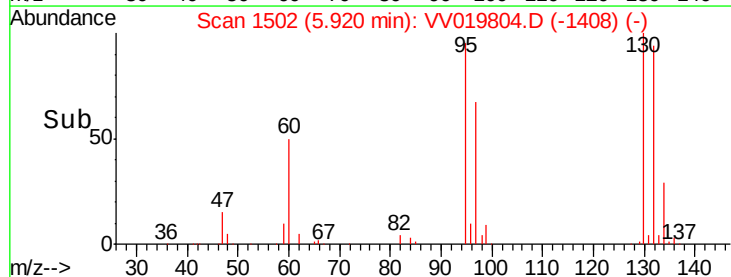
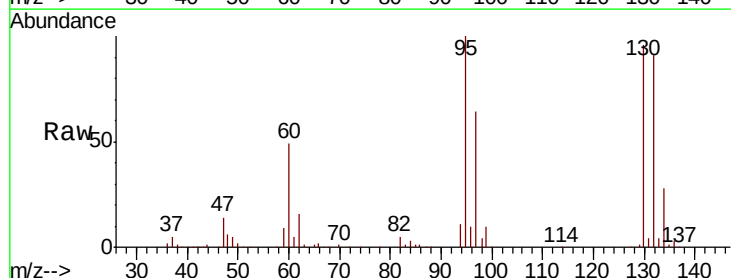
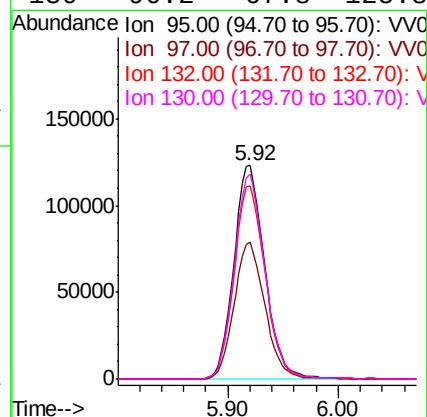
Ion	Ratio	Lower	Upper
95	100		
97	64.1	44.4	82.4
132	90.6	64.3	119.3
130	96.2	67.8	125.8

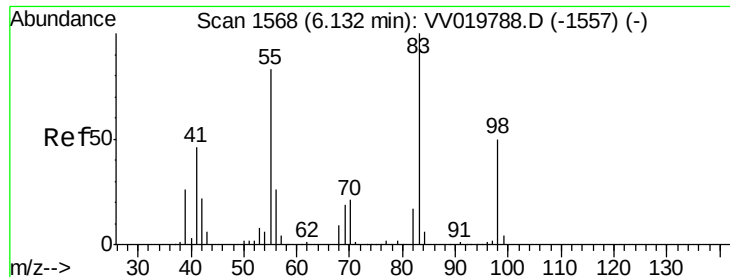
Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

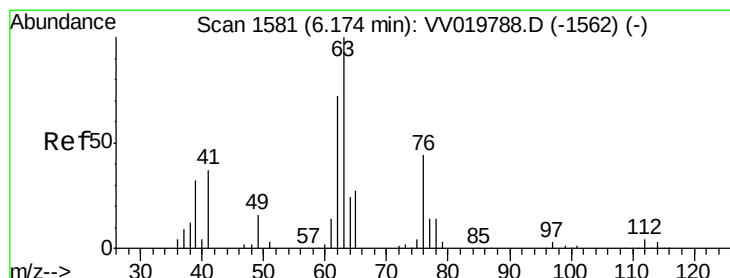
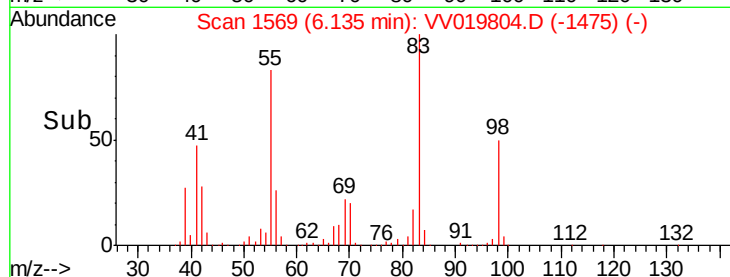
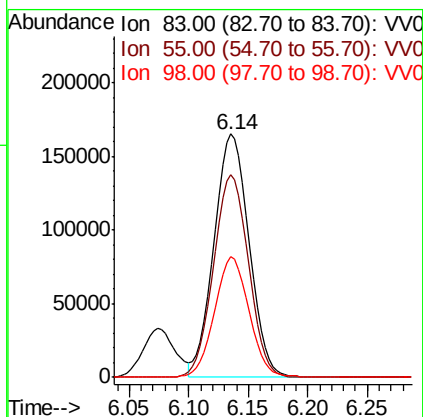
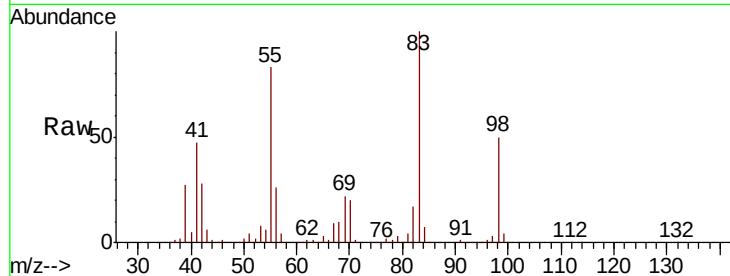




#35
Methvlcvclohexane
Concen: 43.010 ug/L
RT: 6.14 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

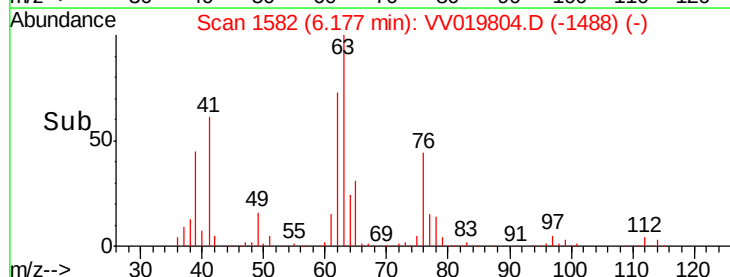
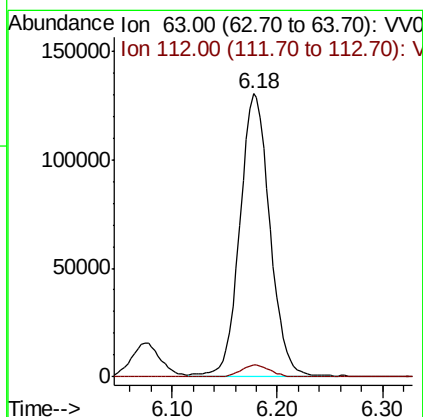
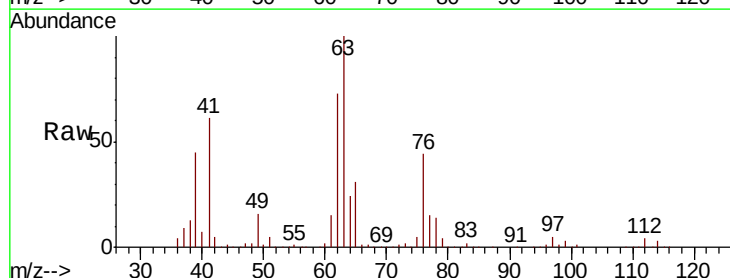
Instrument :
MSVOA_V
ClientSampleId :
VSTD05070

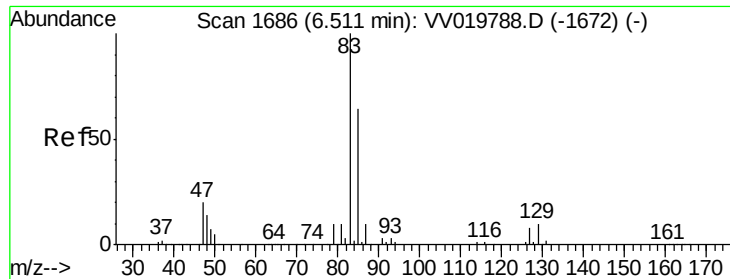
Tot Ion: 83 Resp: 338937
Ion Ratio Lower Upper
83 100
55 83.1 64.2 96.4
98 48.8 39.3 58.9



#37
1,2-Dichloropropane
Concen: 50.340 ug/L
RT: 6.18 min Scan# 1582
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

Tgt Ion: 63 Resp: 258152
Ion Ratio Lower Upper
63 100
112 4.2 3.5 5.3

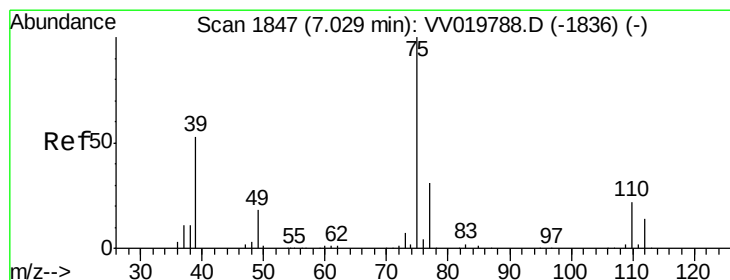
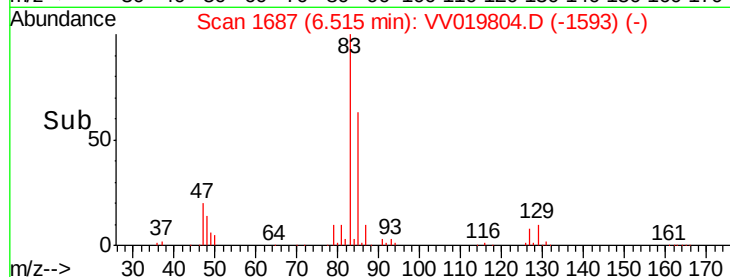
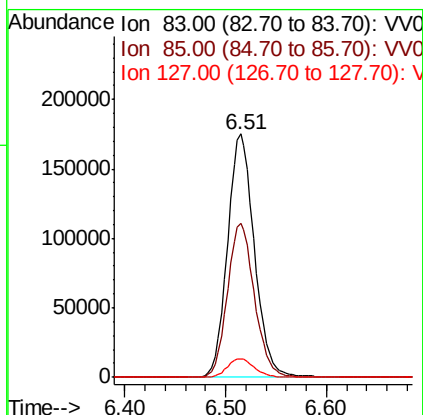
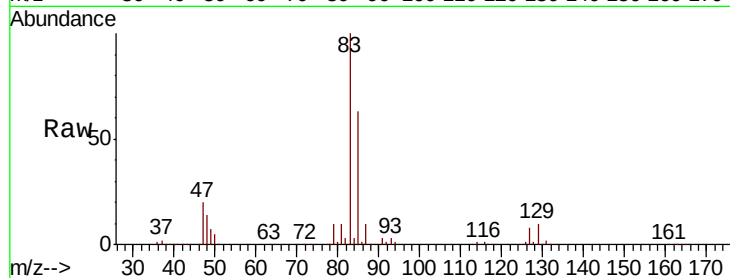




#38
Bromodichloromethane
Concen: 45.393 ug/L
RT: 6.51 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

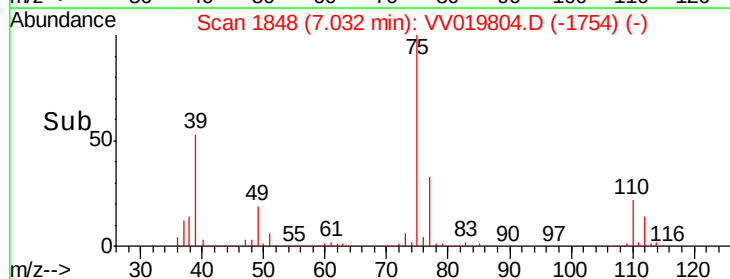
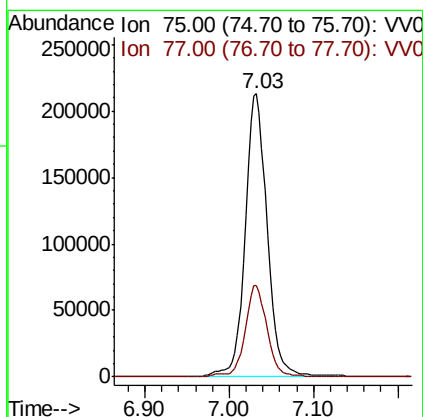
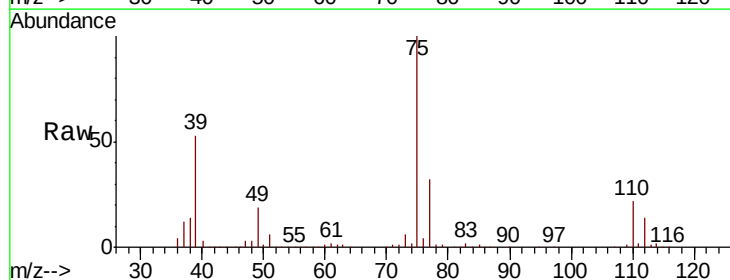
Instrument :
MSVOA_V
ClientSampleId :
VSTD05070

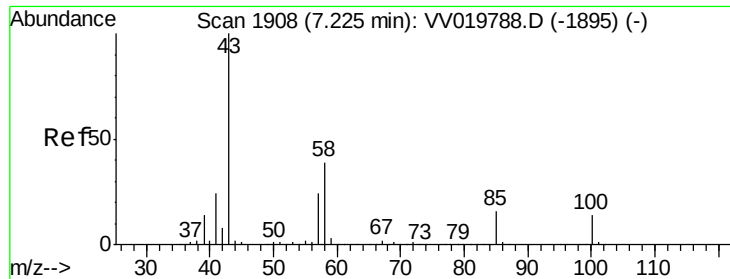
Tot Ion: 83 Resp: 325509
Ion Ratio Lower Upper
83 100
85 63.4 44.9 83.5
127 7.8 6.7 10.1



#39
cis-1,3-Dichloropropene
Concen: 45.769 ug/L
RT: 7.03 min Scan# 1848
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

Tgt Ion: 75 Resp: 389816
Ion Ratio Lower Upper
75 100
77 32.5 22.4 41.6

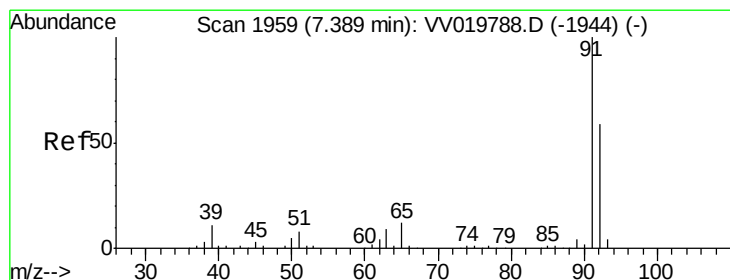
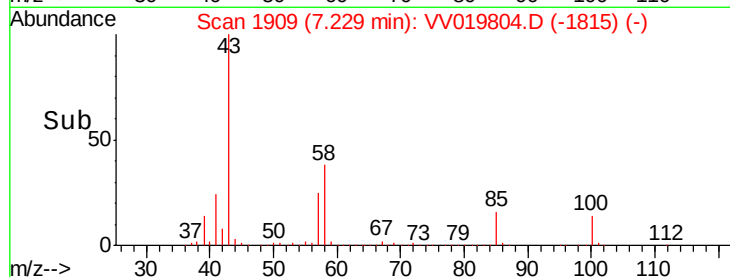
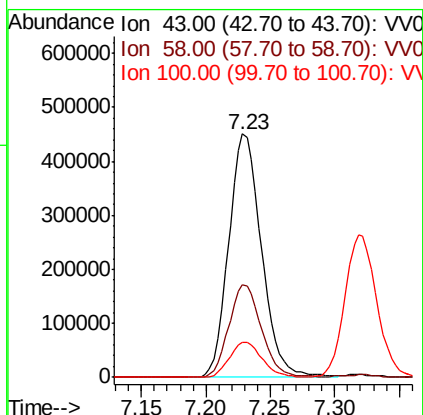
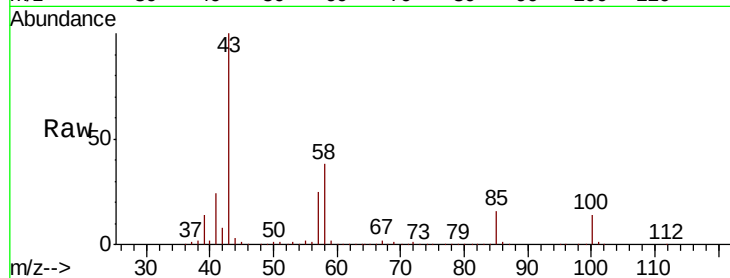




#40
4-Methyl-2-pentanone
Concen: 107.438 ug/L
RT: 7.23 min Scan# 1909
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

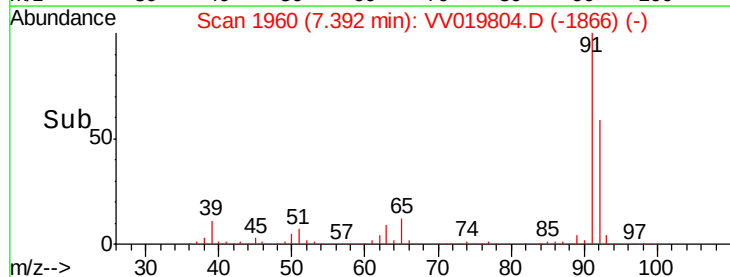
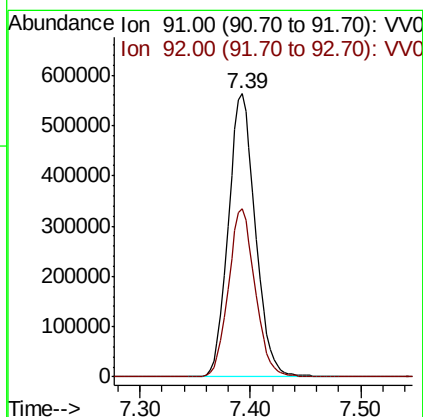
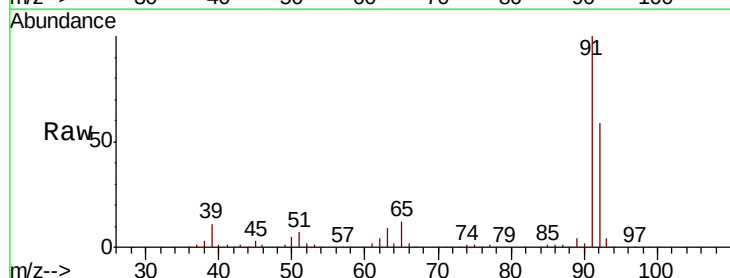
Instrument :
MSVOA_V
ClientSampleId :
VSTD05070

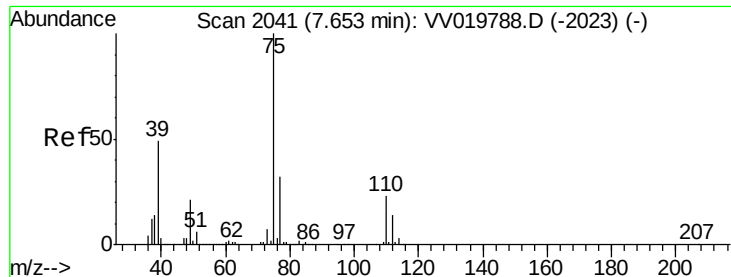
Tot Ion: 43 Resp: 794876
Ion Ratio Lower Upper
43 100
58 37.9 31.7 47.5
100 14.4 12.5 18.7



#42
Toluene
Concen: 46.148 ug/L
RT: 7.39 min Scan# 1960
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

Tgt Ion: 91 Resp: 955098
Ion Ratio Lower Upper
91 100
92 59.4 41.4 76.8





#44

trans-1,3-Dichloropropene

Concen: 43.624 ug/L

RT: 7.66 min Scan# 2042

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

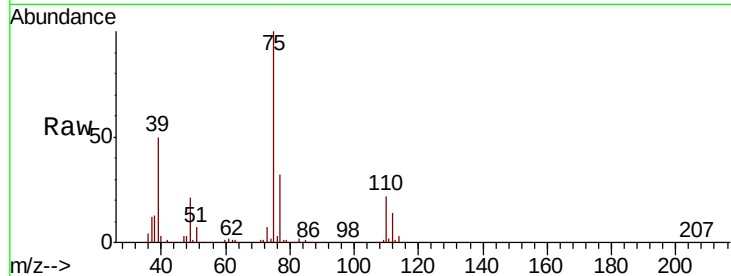
VSTD05070

Tot Ion: 75 Resp: 376217

Ion Ratio Lower Upper

75 100

77 32.2 22.5 41.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

250000

200000

150000

100000

50000

0

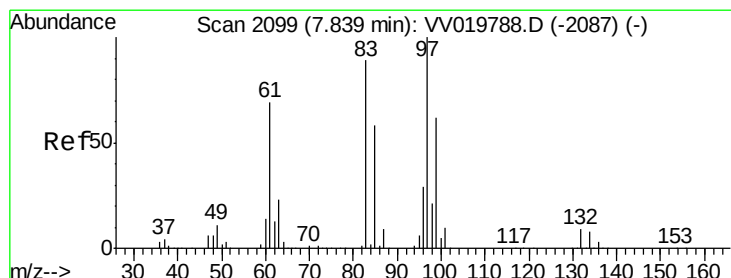
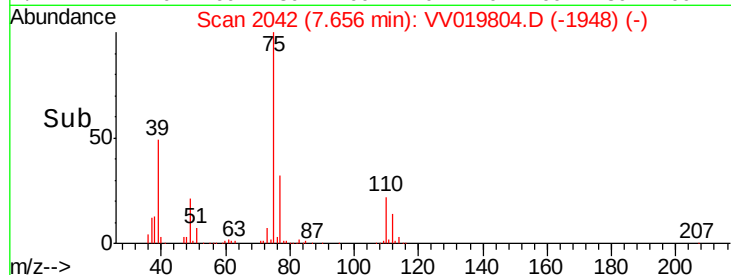
7.60

7.66

7.70

7.80

Time-->



#45

1,1,2-Trichloroethane

Concen: 47.755 ug/L

RT: 7.84 min Scan# 2100

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Tgt Ion: 97 Resp: 232560

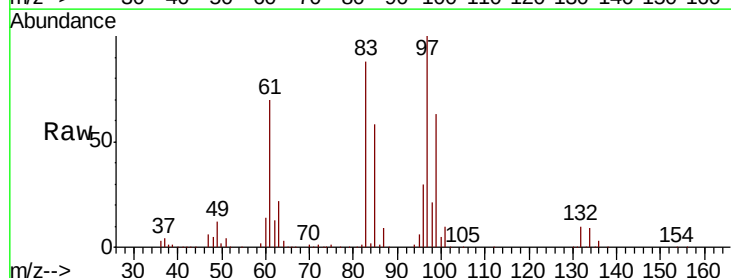
Ion Ratio Lower Upper

97 100

99 63.3 44.1 81.9

83 88.2 60.0 111.4

85 57.8 38.6 71.8



Abundance Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

200000

150000

100000

50000

0

7.75

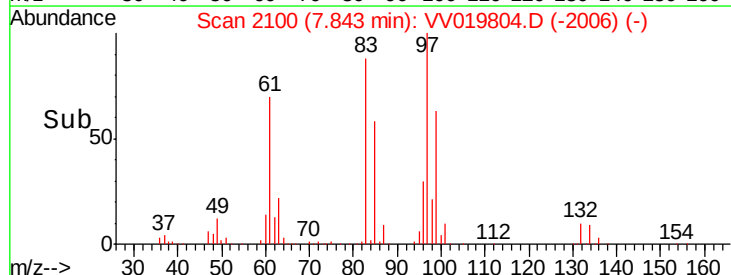
7.80

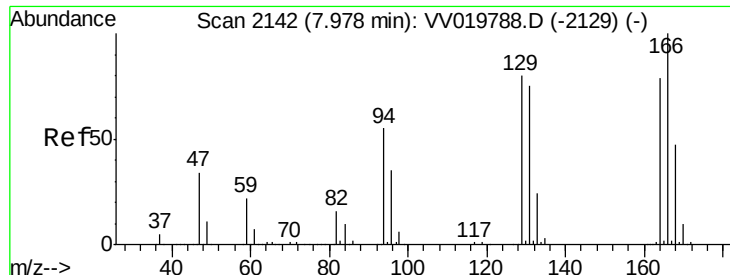
7.84

7.90

7.95

Time-->





#46

Tetrachloroethene

Concen: 42.705 ug/L

RT: 7.98 min Scan# 2143

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05070

Tot Ion:164 Resp: 153283

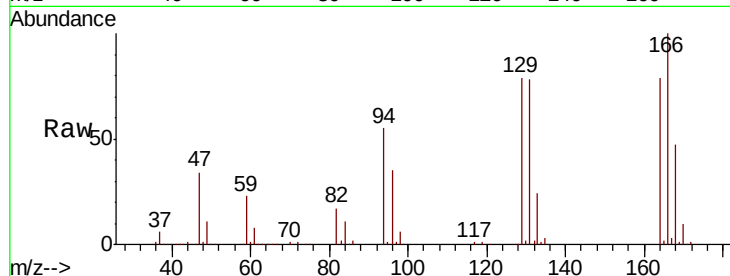
Ion Ratio Lower Upper

164 100

129 99.8 70.6 131.0

131 98.7 68.0 126.4

166 126.2 86.9 161.5

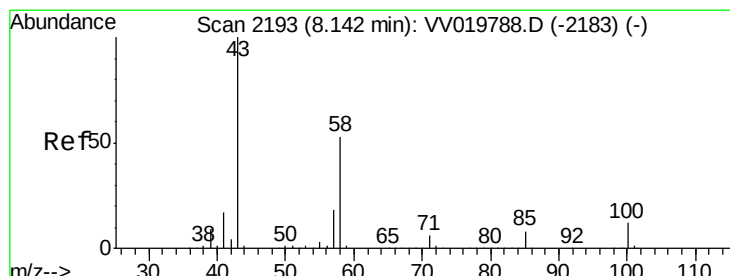
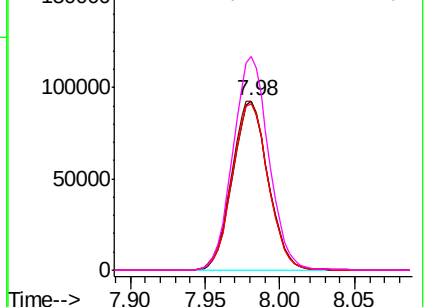
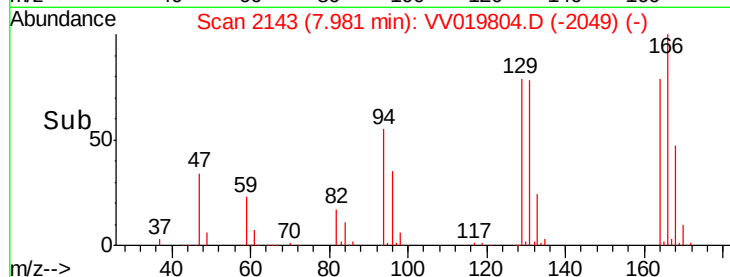


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



#48

2-Hexanone

Concen: 108.923 ug/L

RT: 8.14 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Tgt Ion: 43 Resp: 611472

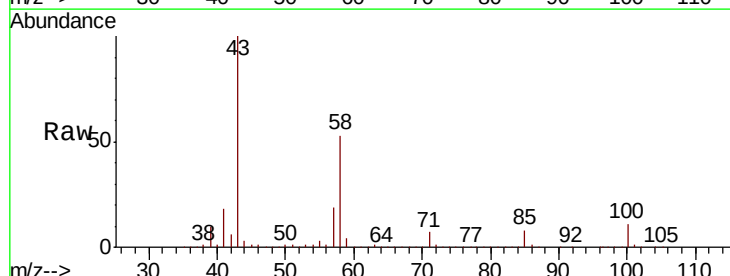
Ion Ratio Lower Upper

43 100

58 53.4 44.4 66.6

57 18.1 15.7 23.5

100 11.2 9.9 14.9

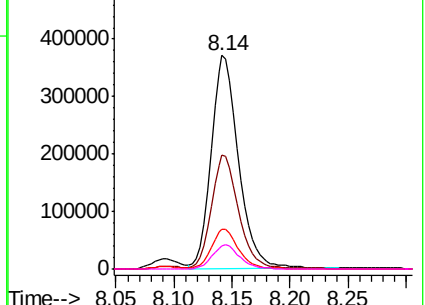
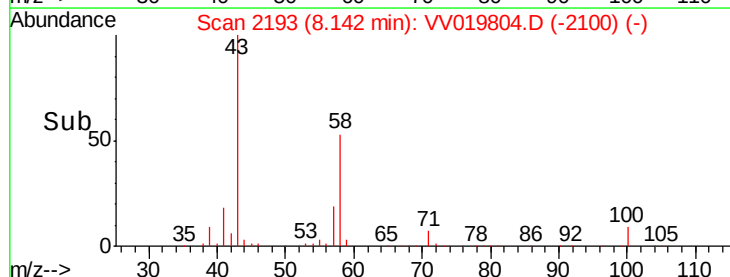


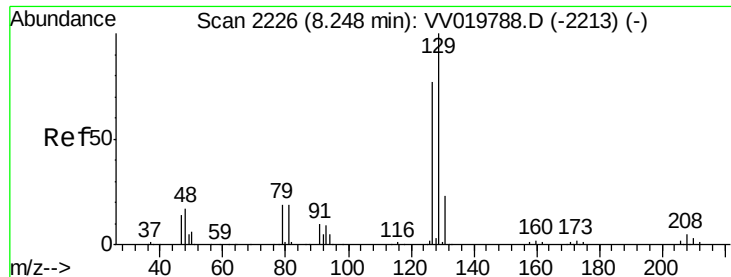
Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#49

Dibromochloromethane

Concen: 44.228 ug/L

RT: 8.25 min Scan# 2227

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

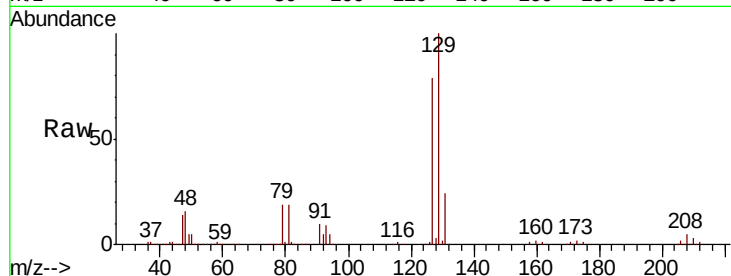
VSTD05070

Tot Ion:129 Resp: 235875

Ion Ratio Lower Upper

129 100

127 78.9 54.2 100.6



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.25

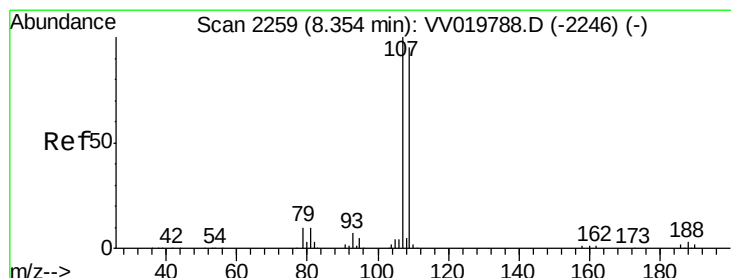
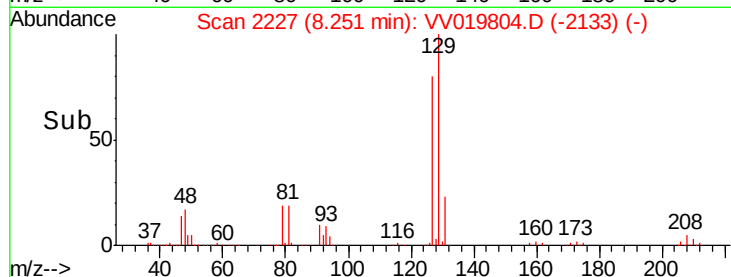
150000

100000

50000

0

Time--> 8.15 8.20 8.25 8.30 8.35



#50

1,2-Dibromoethane

Concen: 46.982 ug/L

RT: 8.36 min Scan# 2260

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

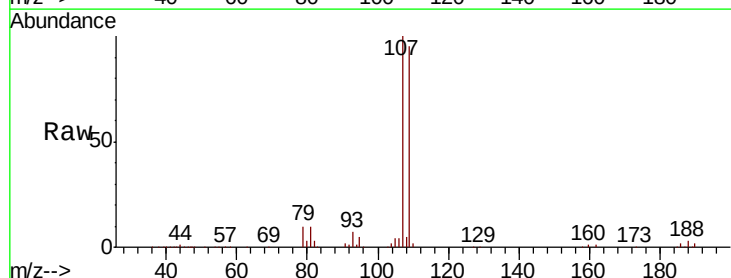
Tgt Ion:107 Resp: 240935

Ion Ratio Lower Upper

107 100

109 95.2 66.4 123.2

188 3.3 2.9 4.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V

8.36

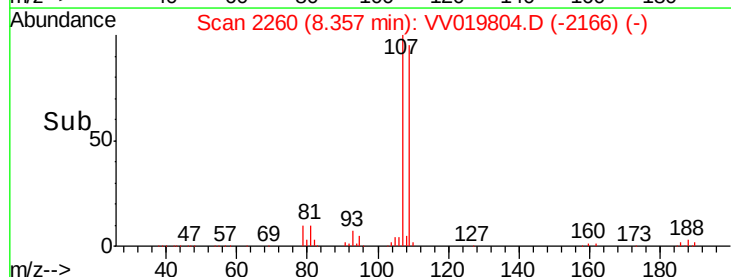
150000

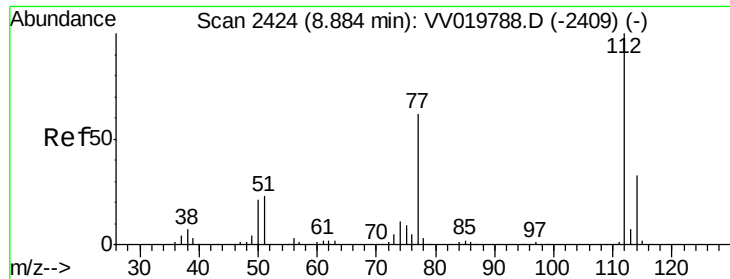
100000

50000

0

Time--> 8.30 8.35 8.40 8.45





#51

Chlorobenzene

Concen: 46.019 ug/L

RT: 8.89 min Scan# 2425

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05070

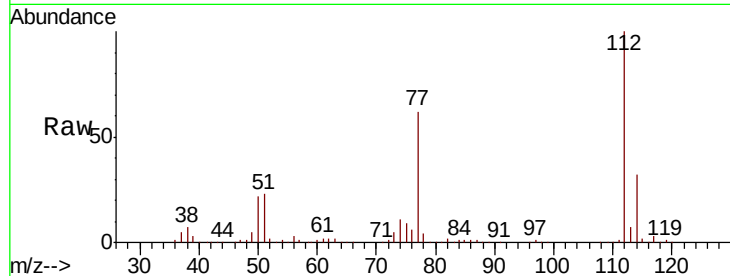
Tot Ion:112 Resp: 608301

Ion Ratio Lower Upper

112 100

114 31.7 22.2 41.2

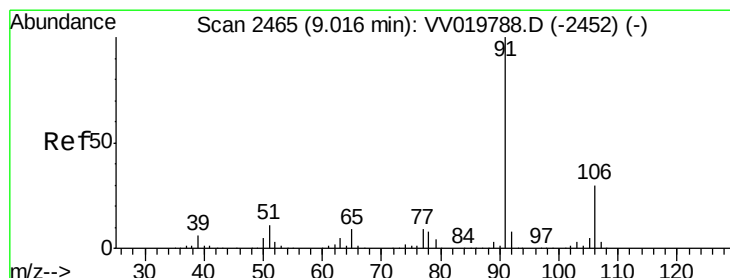
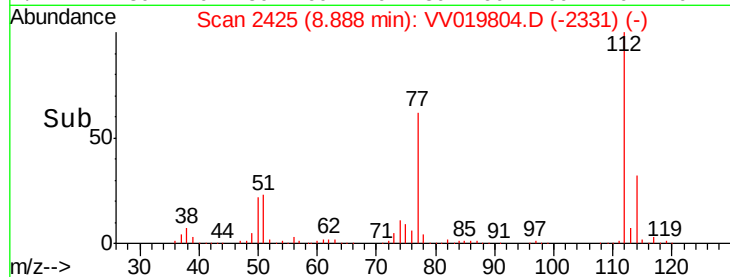
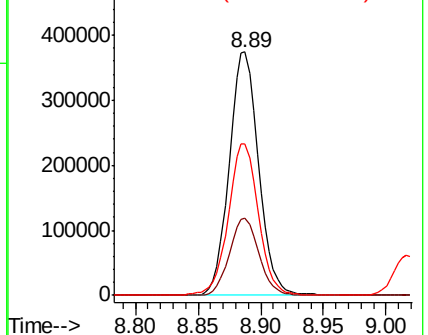
77 62.0 50.6 75.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#52

Ethylbenzene

Concen: 45.587 ug/L

RT: 9.02 min Scan# 2465

Delta R.T. 0.00 min

Lab File: VV019804.D

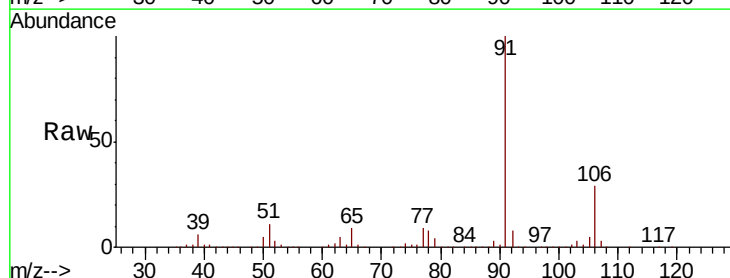
Acq: 22 Dec 2020 19:10

Tgt Ion: 91 Resp: 1074958

Ion Ratio Lower Upper

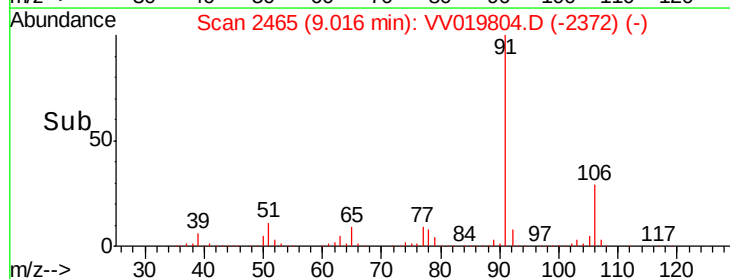
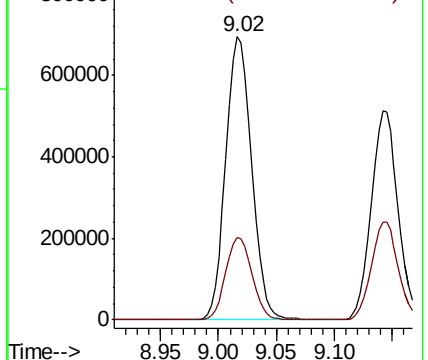
91 100

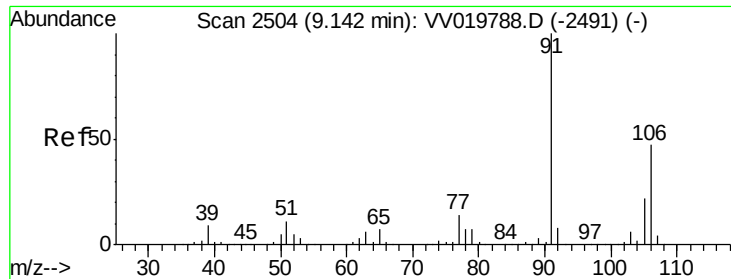
106 29.3 21.1 39.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#53

m,p-Xylene

Concen: 44.033 ug/L

RT: 9.14 min Scan# 2504

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

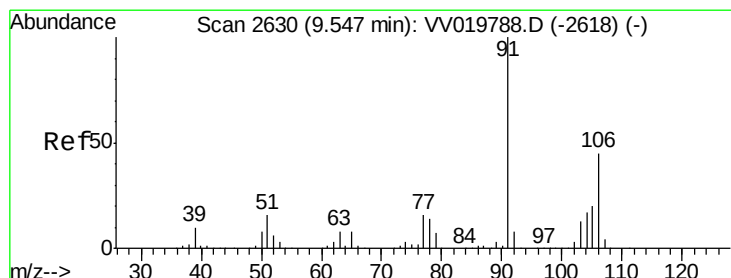
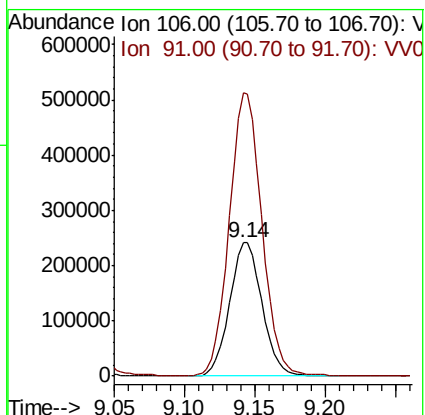
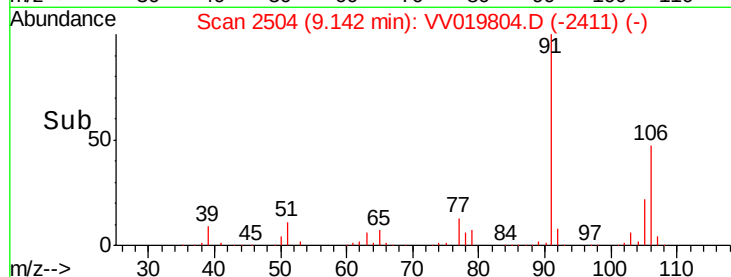
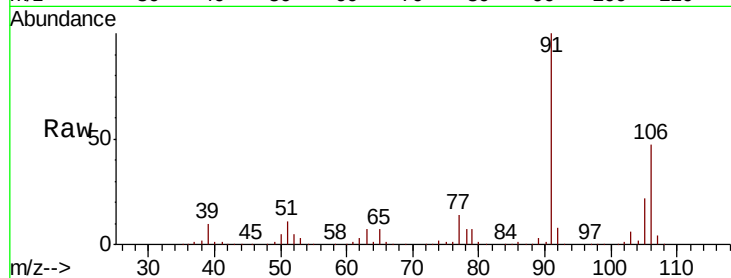
VSTD05070

Tot Ion:106 Resp: 387908

Ion Ratio Lower Upper

106 100

91 212.2 147.7 274.3



#54

o-xylene

Concen: 44.885 ug/L

RT: 9.55 min Scan# 2631

Delta R.T. 0.00 min

Lab File: VV019804.D

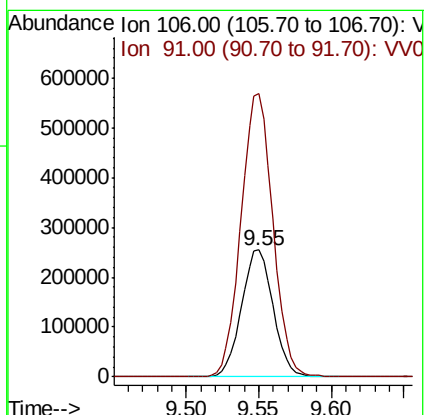
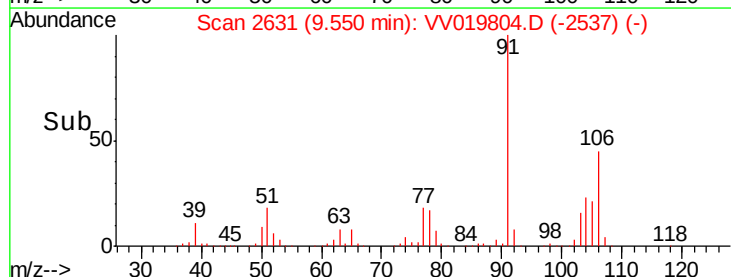
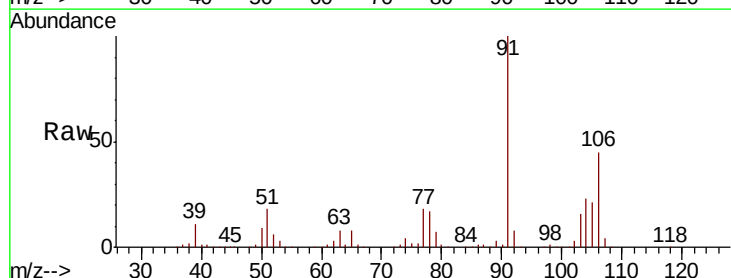
Acq: 22 Dec 2020 19:10

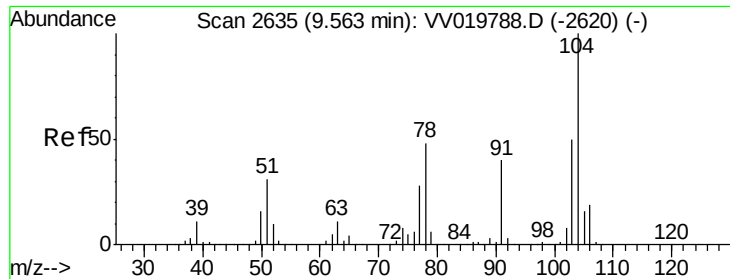
Tgt Ion:106 Resp: 387573

Ion Ratio Lower Upper

106 100

91 222.8 156.7 291.1

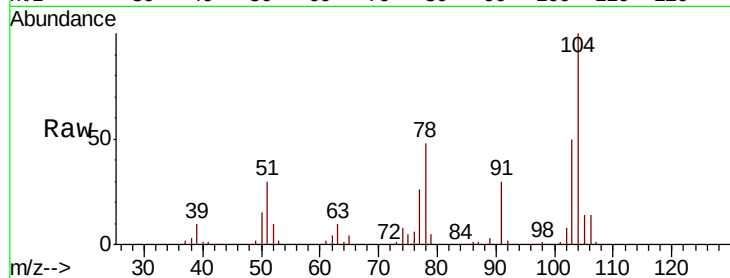




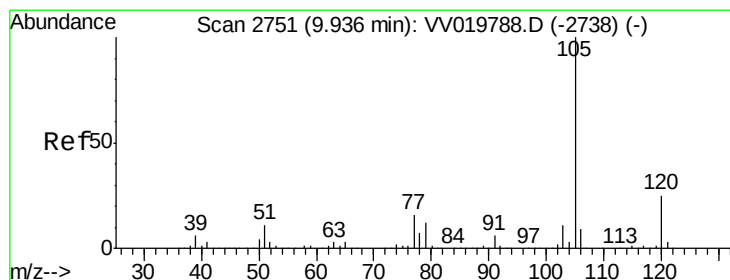
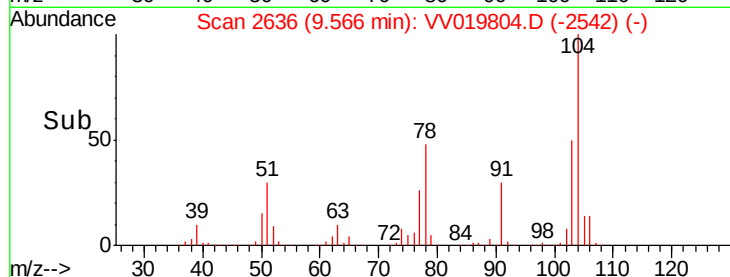
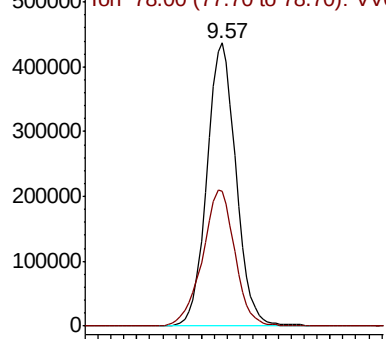
#55
Stvrene
Concen: 45.506 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

Instrument :
MSVOA_V
ClientSampleId :
VSTD05070

Tot Ion:104 Resp: 684849
Ion Ratio Lower Upper
104 100
78 47.8 33.7 62.7

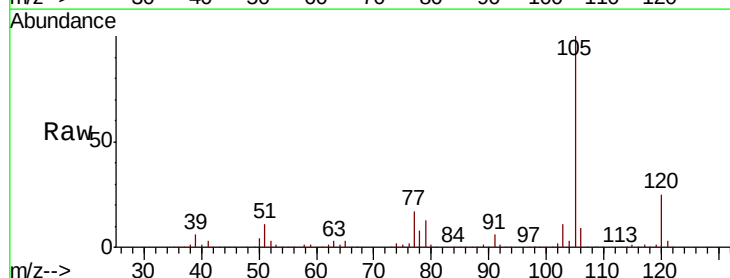


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0

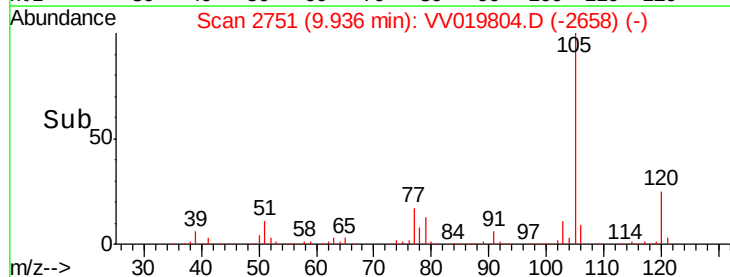
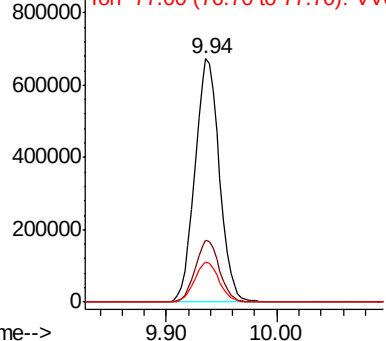


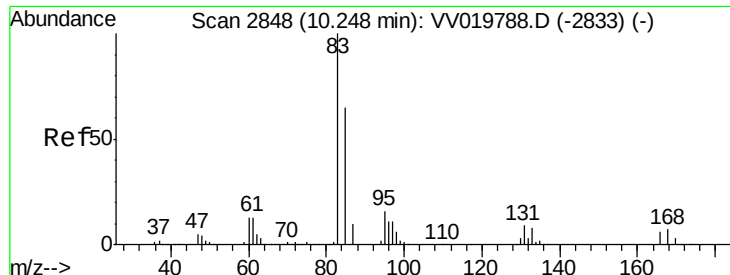
#56
Isopropylbenzene
Concen: 44.925 ug/L
RT: 9.94 min Scan# 2751
Delta R.T. 0.00 min
Lab File: VV019804.D
Acq: 22 Dec 2020 19:10

Tgt Ion:105 Resp: 1033453
Ion Ratio Lower Upper
105 100
120 25.3 20.6 31.0
77 16.7 13.2 19.8



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): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 48.992 ug/L

RT: 10.25 min Scan# 2848

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05070

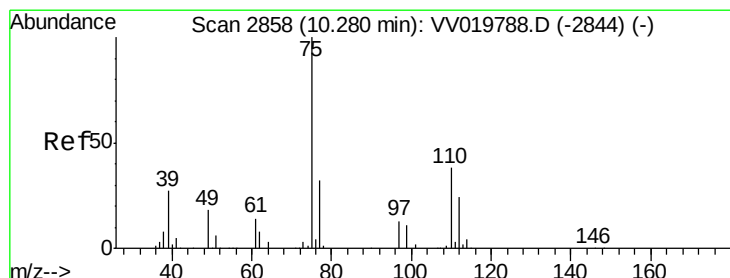
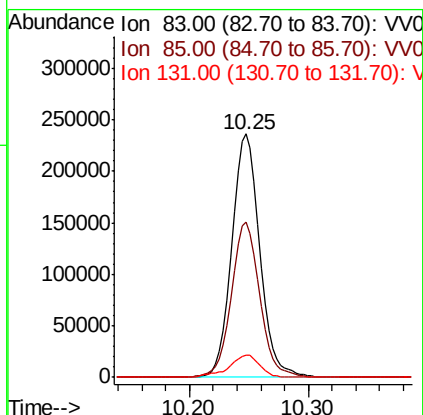
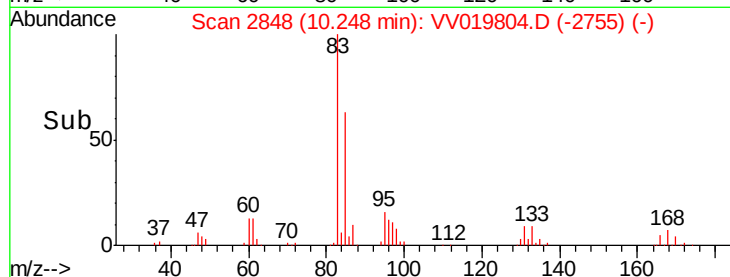
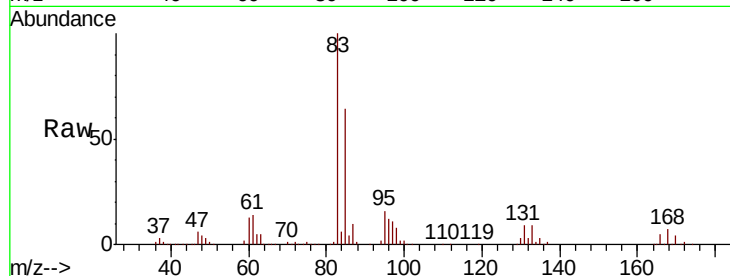
Tot Ion: 83 Resp: 383674

Ion Ratio Lower Upper

83 100

85 63.6 44.9 83.5

131 9.2 7.6 11.4



#59

1,2,3-Trichloropropane

Concen: 51.070 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV019804.D

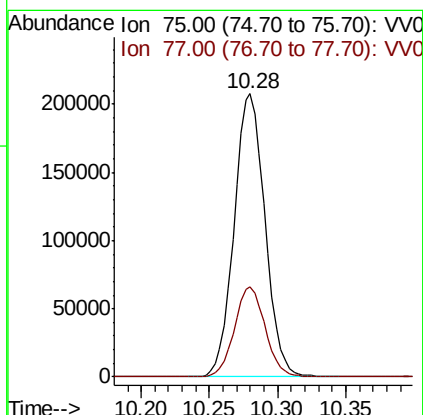
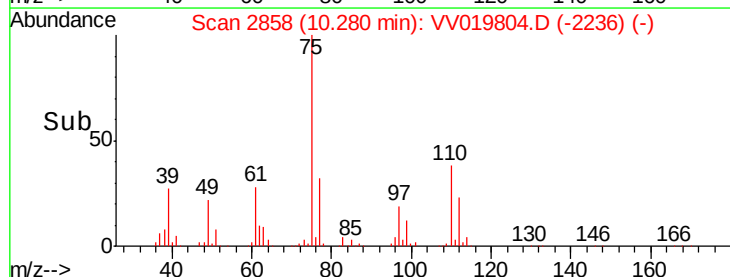
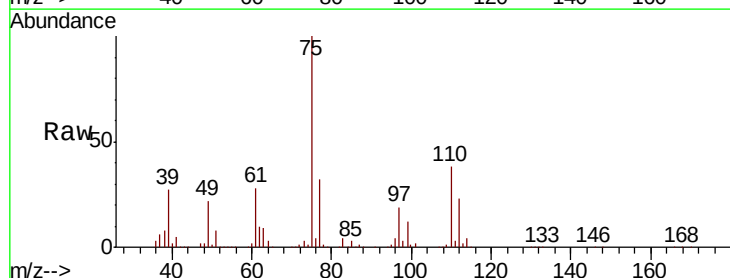
Acq: 22 Dec 2020 19:10

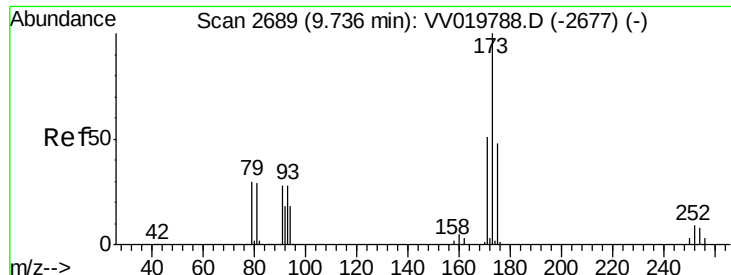
Tgt Ion: 75 Resp: 325752

Ion Ratio Lower Upper

75 100

77 31.4 25.8 38.8





#61

Bromoform

Concen: 41.664 ug/L

RT: 9.74 min Scan# 2689

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05070

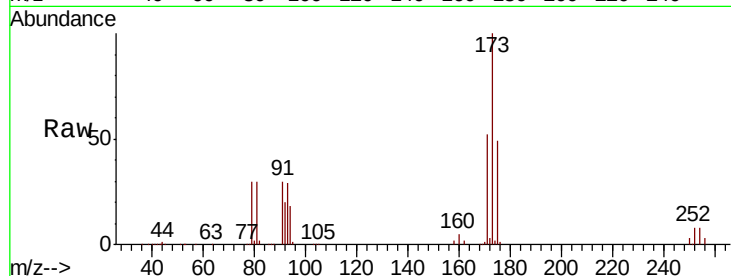
Tot Ion:173 Resp: 148286

Ion Ratio Lower Upper

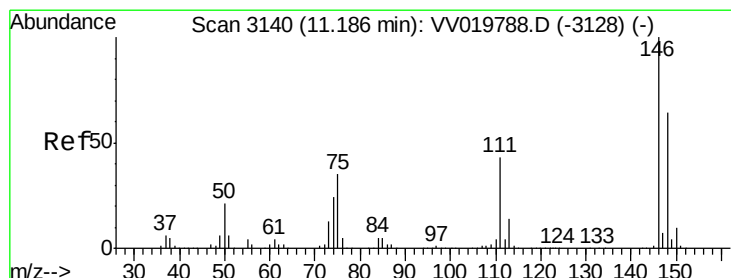
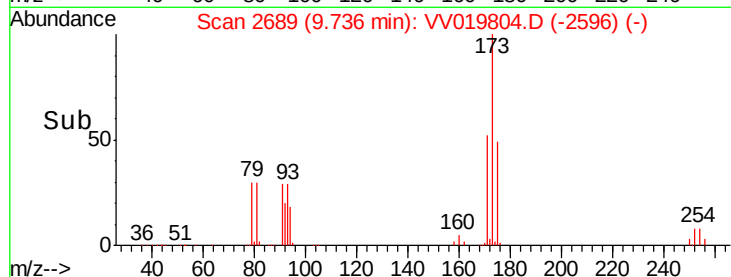
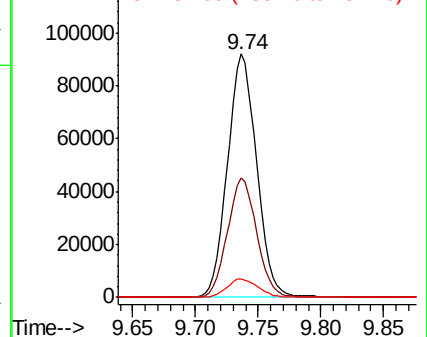
173 100

175 49.0 38.4 57.6

254 8.0 6.6 10.0



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



#62

1,3-Dichlorobenzene

Concen: 45.977 ug/L

RT: 11.19 min Scan# 3140

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

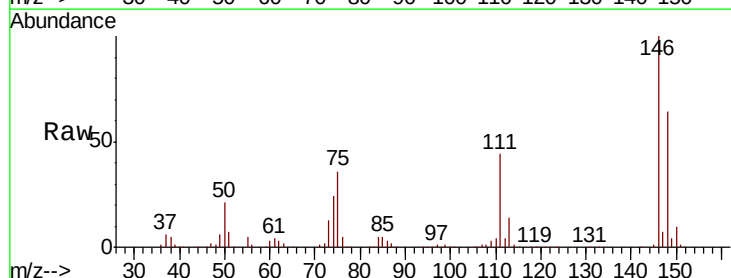
Tgt Ion:146 Resp: 453740

Ion Ratio Lower Upper

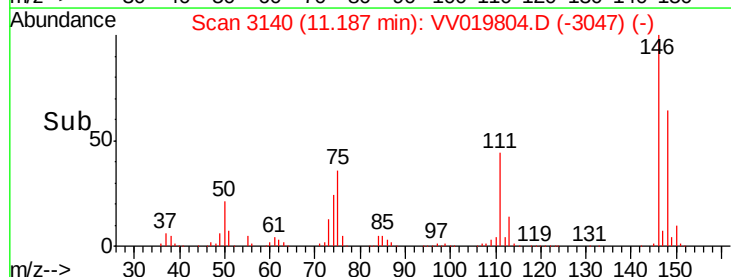
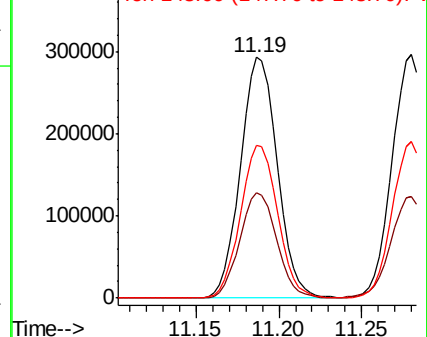
146 100

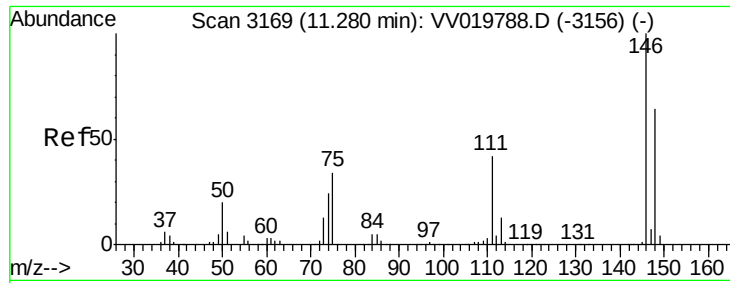
111 44.0 30.7 57.1

148 63.6 45.3 84.1



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

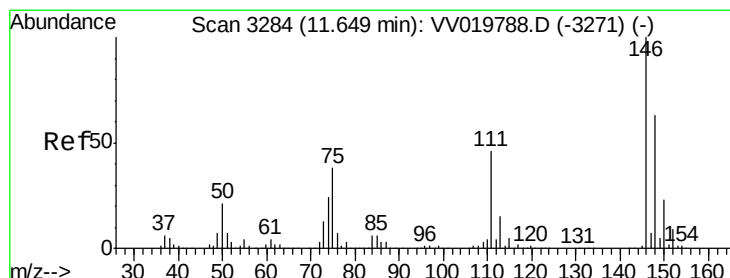
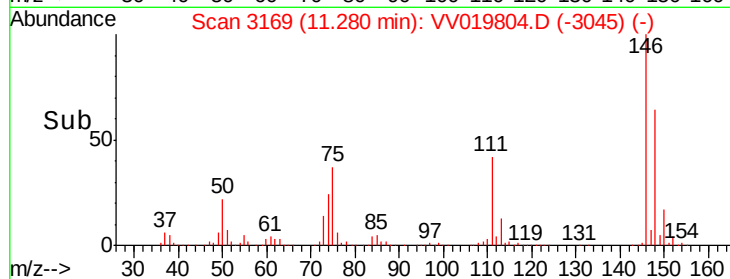
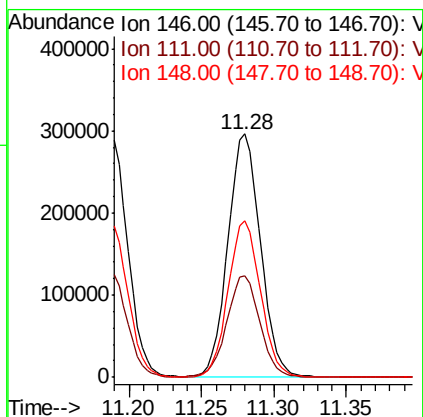
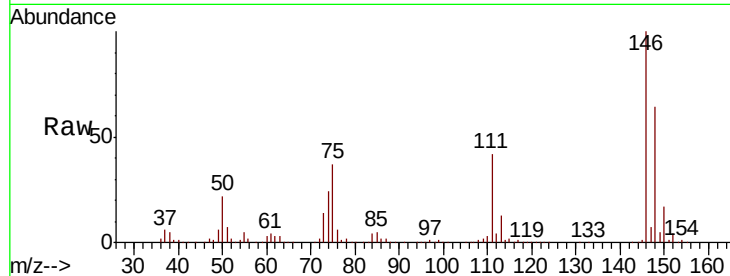




#63
 1,4-Dichlorobenzene
 Concen: 46.035 ug/L
 RT: 11.28 min Scan# 3169
 Delta R.T. 0.00 min
 Lab File: VV019804.D
 Acq: 22 Dec 2020 19:10

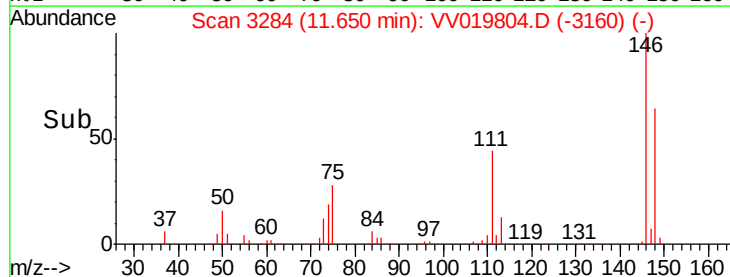
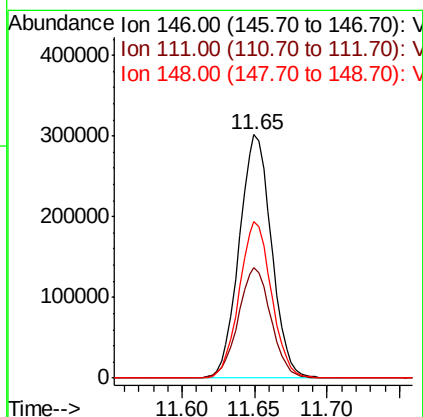
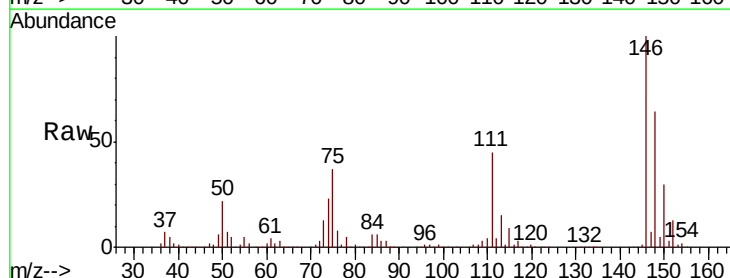
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05070

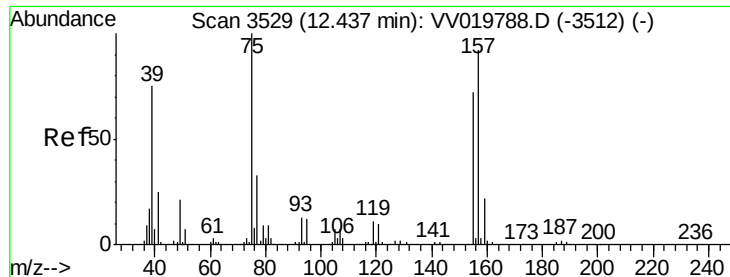
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	29.8	55.4
148	64.2	44.2	82.0



#65
 1,2-Dichlorobenzene
 Concen: 47.936 ug/L
 RT: 11.65 min Scan# 3284
 Delta R.T. 0.00 min
 Lab File: VV019804.D
 Acq: 22 Dec 2020 19:10

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.2	36.6	55.0
148	64.2	50.7	76.1





#66

1,2-Dibromo-3-chloropropane

Concen: 45.204 ug/L

RT: 12.43 min Scan# 3528

Delta R.T. -0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Instrument :

MSVOA_V

ClientSampleId :

VSTD05070

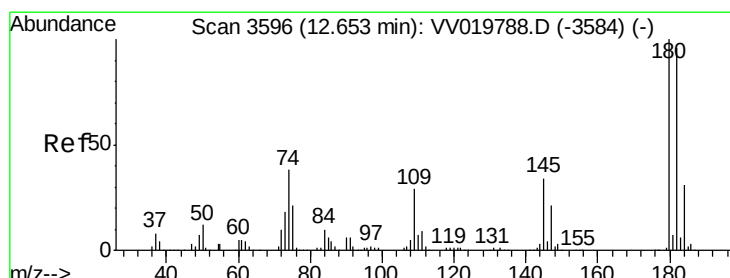
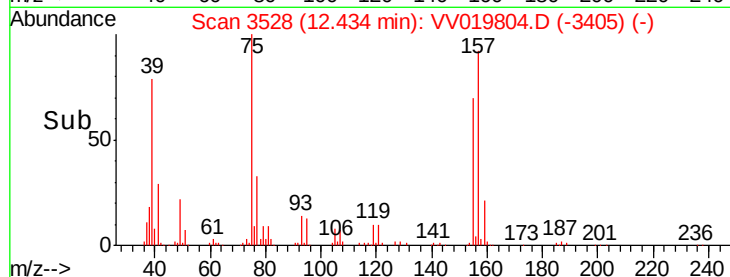
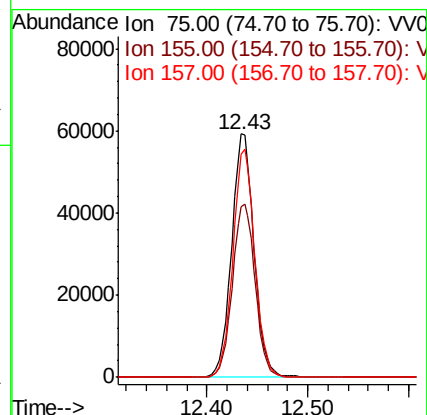
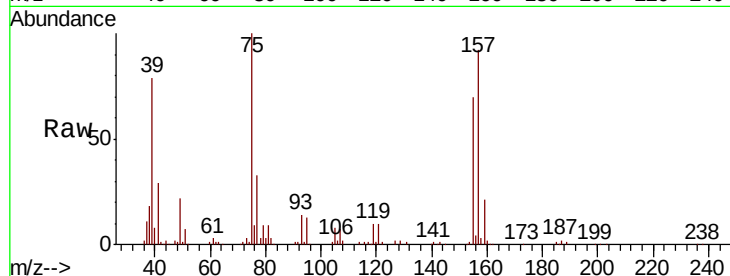
Tot Ion: 75 Resp: 92017

Ion Ratio Lower Upper

75 100

155 70.1 61.1 91.7

157 91.8 78.7 118.1



#67

1,3,5-Trichlorobenzene

Concen: 47.257 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VV019804.D

Acq: 22 Dec 2020 19:10

Tgt Ion: 180 Resp: 329502

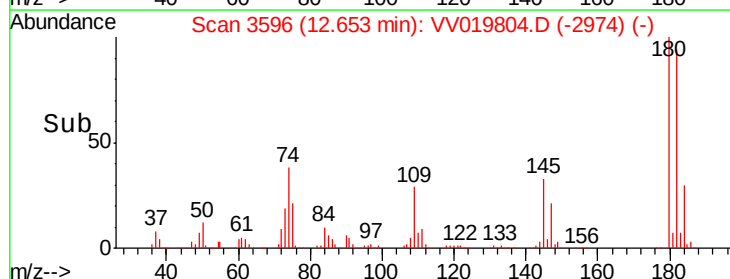
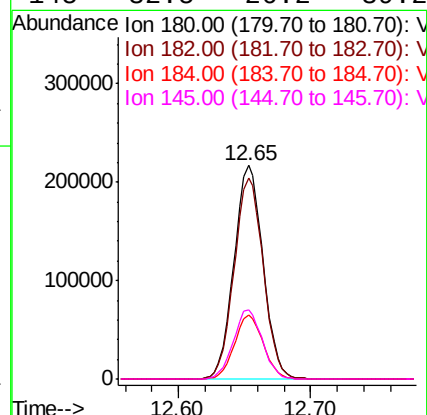
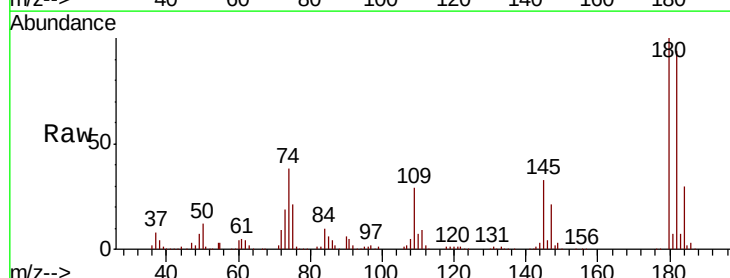
Ion Ratio Lower Upper

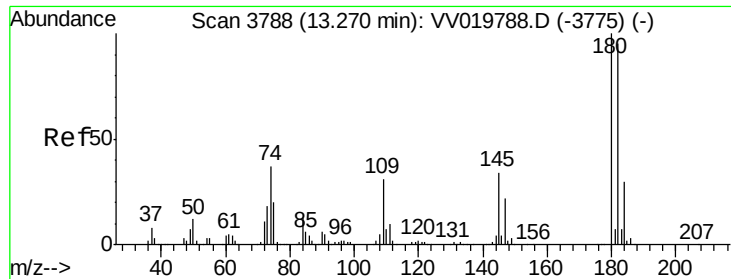
180 100

182 94.5 75.8 113.6

184 29.8 23.9 35.9

145 32.5 26.2 39.2

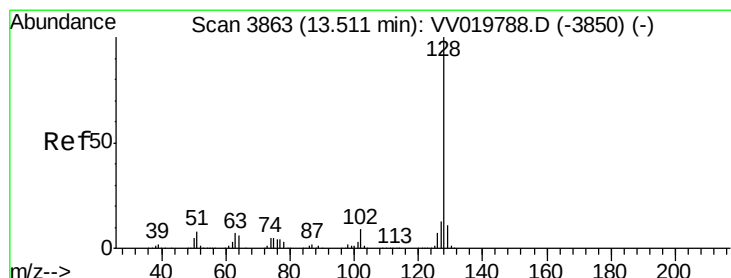
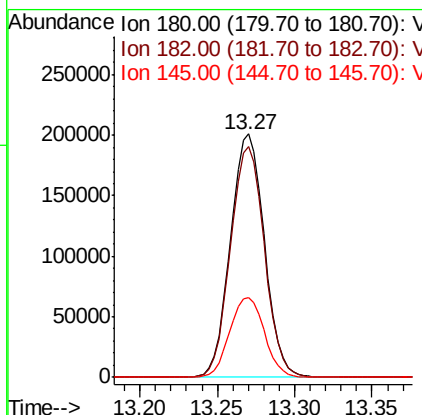
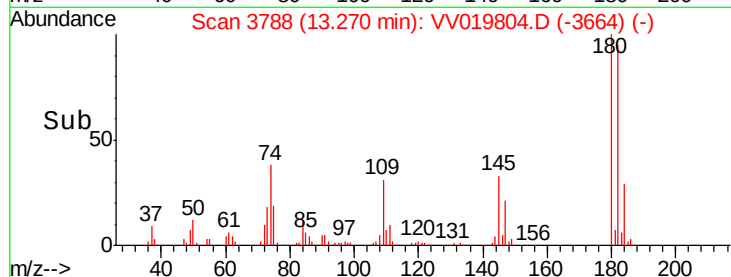
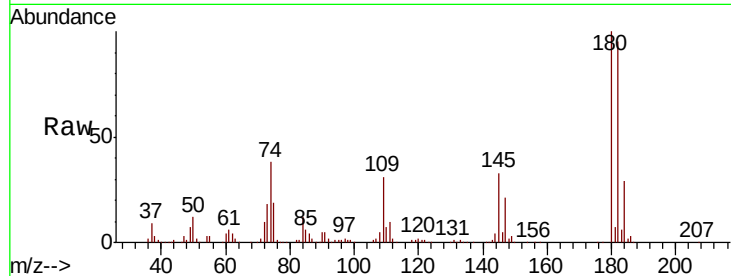




#68
 1,2,4-trichlorobenzene
 Concen: 46.749 ug/L
 RT: 13.27 min Scan# 3788
 Delta R.T. 0.00 min
 Lab File: VV019804.D
 Acq: 22 Dec 2020 19:10

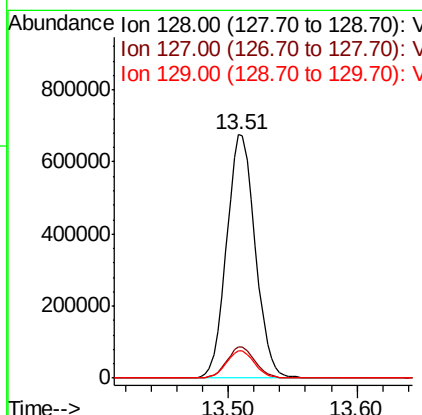
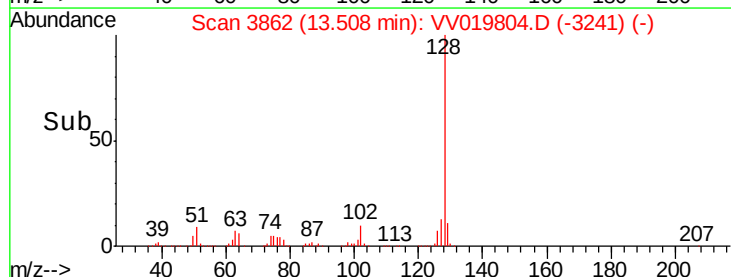
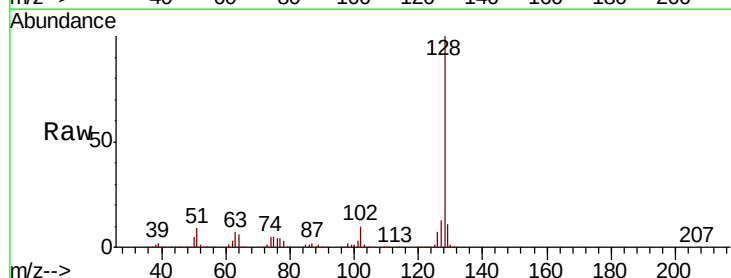
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05070

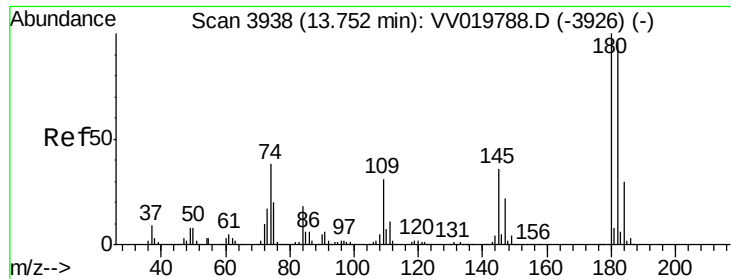
Tot Ion:180 Resp: 304777
 Ion Ratio Lower Upper
 180 100
 182 95.2 76.5 114.7
 145 33.6 27.0 40.6



#69
 Naphthalene
 Concen: 45.840 ug/L
 RT: 13.51 min Scan# 3862
 Delta R.T. -0.00 min
 Lab File: VV019804.D
 Acq: 22 Dec 2020 19:10

Tgt Ion:128 Resp: 1037705
 Ion Ratio Lower Upper
 128 100
 127 12.8 10.3 15.5
 129 11.0 8.6 12.8

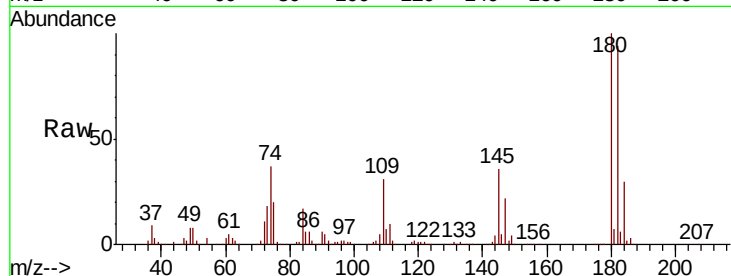




#70
 1,2,3-Trichlorobenzene
 Concen: 47.483 ug/L
 RT: 13.75 min Scan# 3938
 Delta R.T. 0.00 min
 Lab File: VV019804.D
 Acq: 22 Dec 2020 19:10

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05070

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.8	113.6
145	35.5	29.1	43.7



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

