

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111220\
 Data File : VV019346.D
 Acq On : 12 Nov 2020 11:46
 Operator : SY/MD
 Sample : VSTD01064
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01064

Quant Time: Nov 12 12:37:31 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM111220WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Nov 12 12:30:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	197897	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	195113	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	115781	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	14658	9.43	ug/L	0.00
7) Chloroethane-d5	1.58	69	11802	9.63	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.12	63	30626	10.17	ug/L	0.00
21) 2-Butanone-d5	3.93	46	12841	13.88	ug/L	0.01
24) Chloroform-d	4.38	84	28075	9.60	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.06	65	19264	9.46	ug/L	0.00
32) Benzene-d6	5.08	84	49129	9.01	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.10	67	13742	8.53	ug/L	0.00
41) Toluene-d8	7.34	98	47186	8.97	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.64	79	8393	8.92	ug/L	0.00
47) 2-Hexanone-d5	8.11	63	7944	11.66	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.23	84	17581	8.07	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.65	152	21254	8.89	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	15276	8.838 ug/L	100
3) Chloromethane	1.25	50	14084	8.876 ug/L	100
5) Vinyl chloride	1.32	62	15274	9.391 ug/L	98
6) Bromomethane	1.53	94	10694	9.630 ug/L	98
8) Chloroethane	1.60	64	9633	9.450 ug/L	99
9) Trichlorofluoromethane	1.77	101	26700	9.689 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	12151	9.251 ug/L	98
12) 1,1-Dichloroethene	2.13	96	12653	9.770 ug/L #	80
13) Acetone	2.20	43	12803	14.817 ug/L	97
14) Carbon disulfide	2.31	76	34941	8.712 ug/L	97
15) Methyl Acetate	2.46	43	10561	7.565 ug/L	97
16) Methylene chloride	2.52	84	13233	9.157 ug/L	94
17) trans-1,2-Dichloroethene	2.78	96	12440	9.114 ug/L	94
18) Methyl tert-butyl Ether	2.78	73	38122	8.361 ug/L	99
19) 1,1-Dichloroethane	3.21	63	21277	8.481 ug/L	98
20) cis-1,2-Dichloroethene	3.94	96	12812	8.587 ug/L	92
22) 2-Butanone	4.01	43	12464	13.324 ug/L #	72
23) Bromochloromethane	4.29	128	7446	9.133 ug/L	94
25) Chloroform	4.40	83	24932	9.041 ug/L	98
27) 1,2-Dichloroethane	5.16	62	20878	8.851 ug/L #	90
29) Cyclohexane	4.70	56	14603	6.971 ug/L	99
30) 1,1,1-Trichloroethane	4.63	97	24407	9.194 ug/L	99
31) Carbon tetrachloride	4.86	117	21906	9.263 ug/L	100
33) Benzene	5.13	78	45017	8.077 ug/L	100
34) Trichloroethene	5.94	95	14285	9.240 ug/L	98
35) Methylcyclohexane	6.15	83	15946	7.831 ug/L	95
37) 1,2-Dichloropropane	6.20	63	11371	8.275 ug/L #	93
38) Bromodichloromethane	6.53	83	17894	8.585 ug/L #	97
39) cis-1,3-Dichloropropene	7.05	75	16916	7.373 ug/L	99
40) 4-Methyl-2-pentanone	7.25	43	26417	14.196 ug/L	99

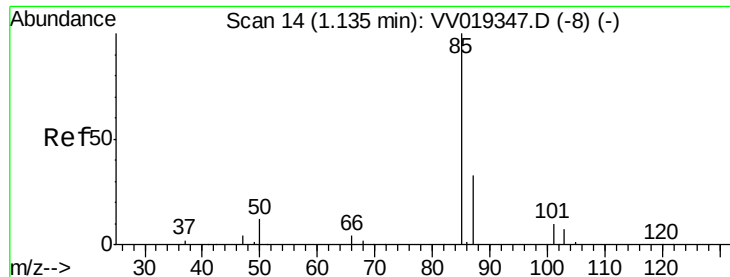
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV111220\
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 Quant Title : VOC Analysis
 QLast Update : Thu Nov 12 12:30:02 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	50460	8.254	ug/L	98
44) trans-1,3-Dichloropropene	7.67	75	19180	7.992	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	12199	8.672	ug/L	98
46) Tetrachloroethene	8.00	164	12505	9.416	ug/L	95
48) 2-Hexanone	8.16	43	20434	13.741	ug/L	98
49) Dibromochloromethane	8.27	129	15243	8.860	ug/L	98
50) 1,2-Dibromoethane	8.38	107	13191	8.771	ug/L	97
51) Chlorobenzene	8.90	112	36479	9.023	ug/L	98
52) Ethylbenzene	9.04	91	55593	8.215	ug/L	100
53) m,p-Xylene	9.16	106	21527	8.428	ug/L	92
54) o-xylene	9.57	106	20787	8.432	ug/L	97
55) Styrene	9.58	104	36137	8.286	ug/L	99
56) Isopropylbenzene	9.95	105	53361	8.079	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.26	83	16001	7.618	ug/L	96
59) 1,2,3-Trichloropropane	10.30	75	15220	8.368	ug/L	98
61) Bromoform	9.75	173	12229	8.560	ug/L	98
62) 1,3-Dichlorobenzene	11.20	146	30339	8.395	ug/L	100
63) 1,4-Dichlorobenzene	11.29	146	32112	8.570	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	31074	8.643	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.45	75	4035	6.700	ug/L	94
67) 1,3,5-Trichlorobenzene	12.67	180	22840	8.551	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	18815	7.560	ug/L	98
69) Naphthalene	13.53	128	40866	6.065	ug/L	98
70) 1,2,3-Trichlorobenzene	13.77	180	19511	7.959	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 8.838 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

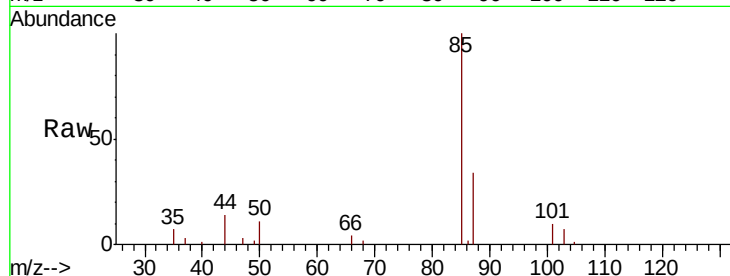
VSTD01064

Tot Ion: 85 Resp: 15276

Ion Ratio Lower Upper

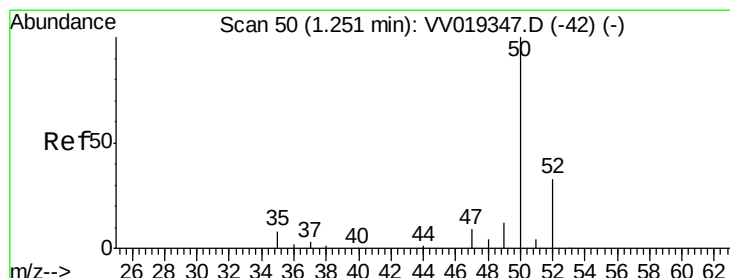
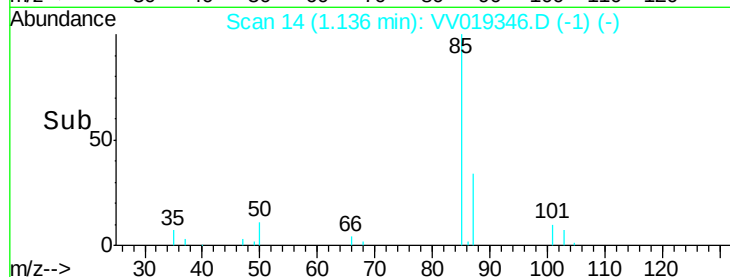
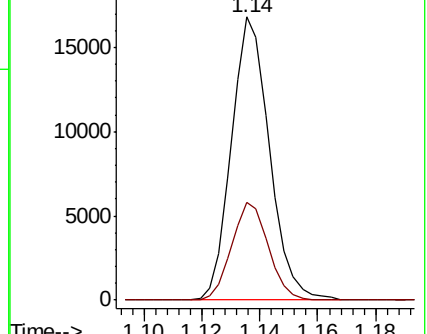
85 100

87 33.1 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 8.876 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV019346.D

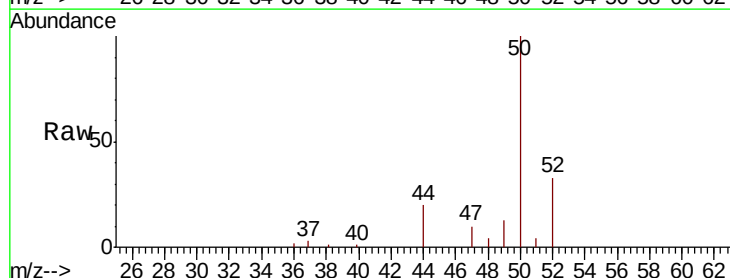
Acq: 12 Nov 2020 11:46

Tgt Ion: 50 Resp: 14084

Ion Ratio Lower Upper

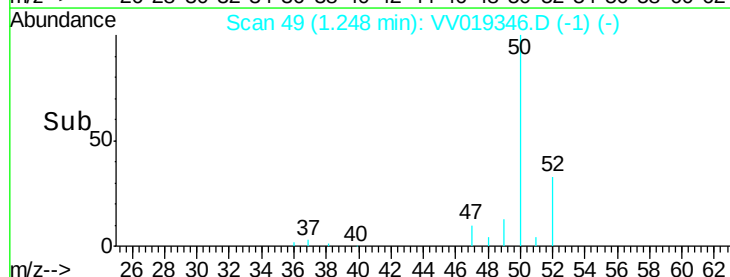
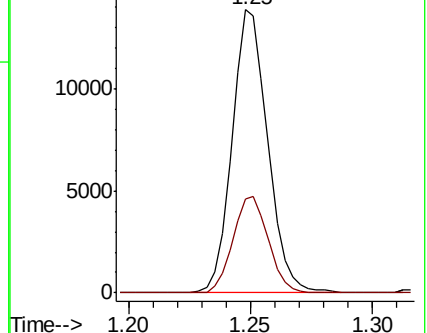
50 100

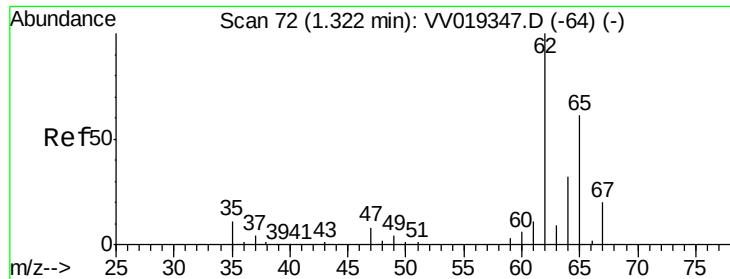
52 33.3 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 9.391 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

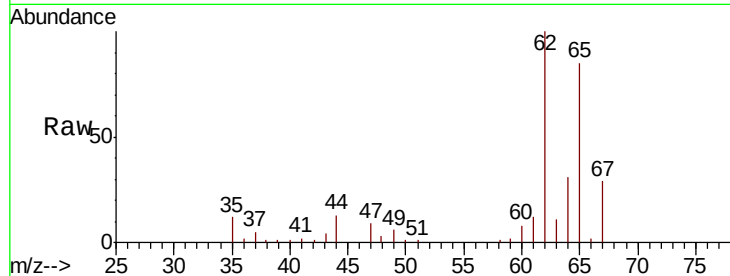
VSTD01064

Tot Ion: 62 Resp: 15274

Ion Ratio Lower Upper

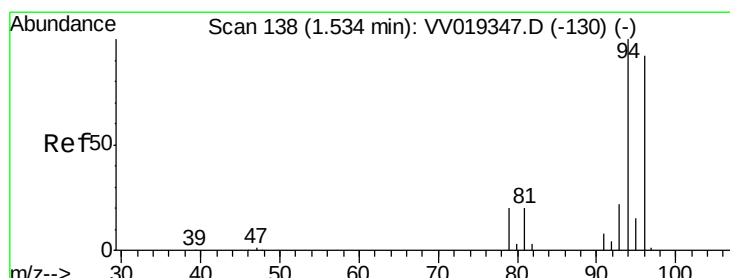
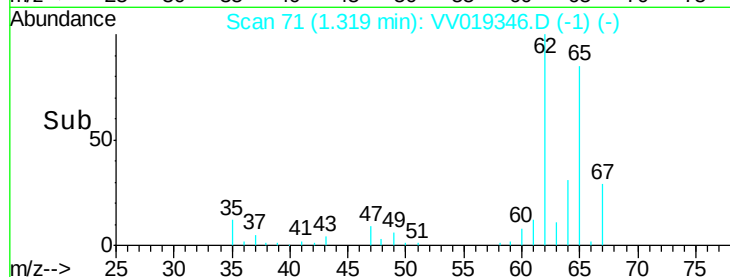
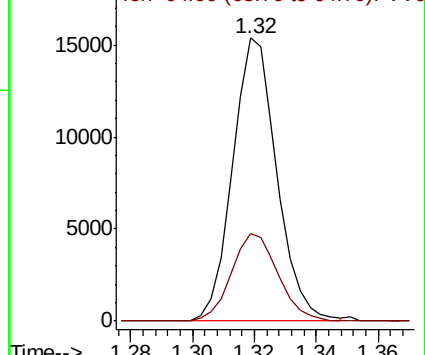
62 100

64 30.9 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 9.630 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV019346.D

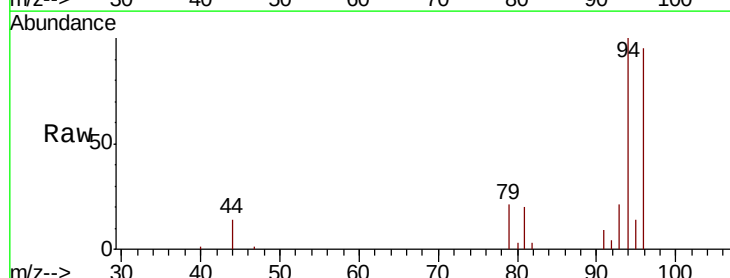
Acq: 12 Nov 2020 11:46

Tgt Ion: 94 Resp: 10694

Ion Ratio Lower Upper

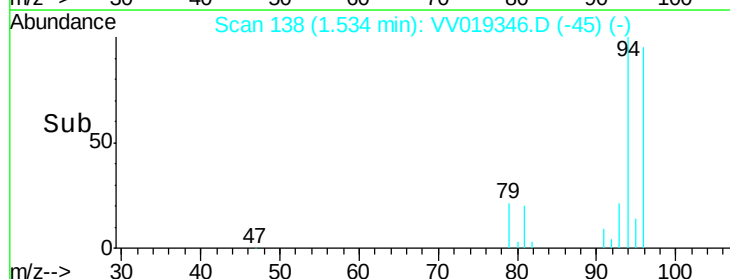
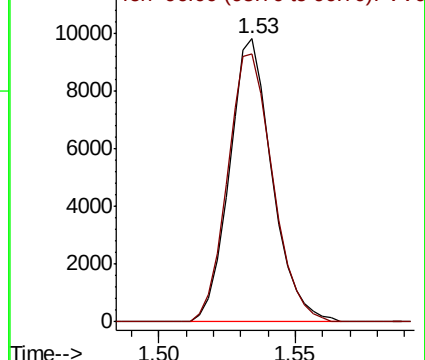
94 100

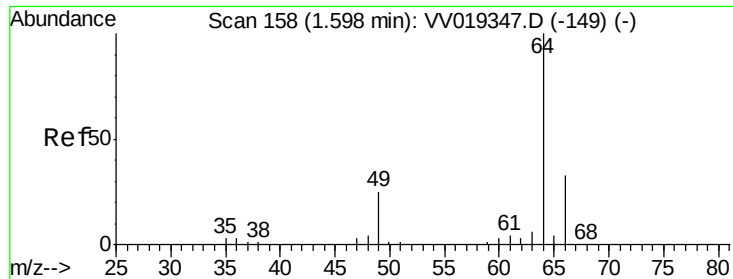
96 94.7 64.7 120.1



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 9.450 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

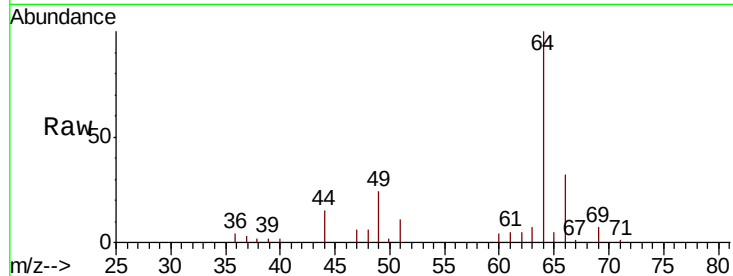
VSTD01064

Tot Ion: 64 Resp: 9633

Ion Ratio Lower Upper

64 100

66 32.0 22.9 42.5



Abundance Ion 64.00 (63.70 to 64.70): VV019347.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV019347.D (-149) (-)

1.60

8000

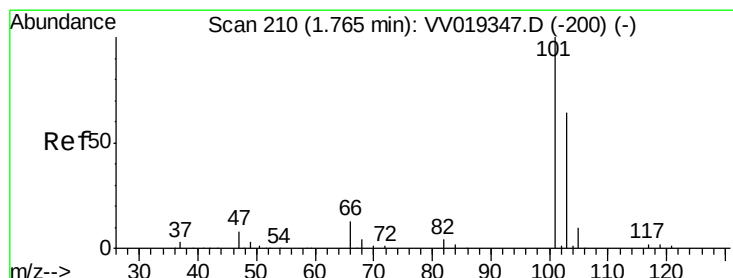
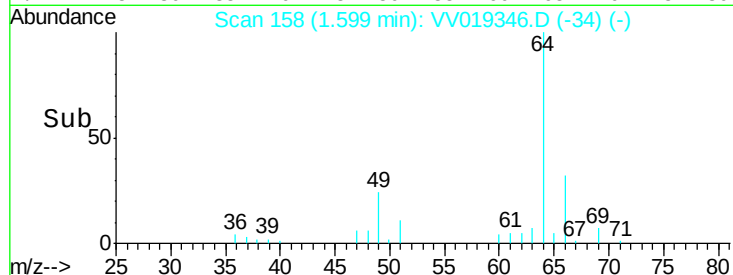
6000

4000

2000

0

Time-->



#9

Trichlorofluoromethane

Concen: 9.689 ug/L

RT: 1.77 min Scan# 210

Delta R.T. 0.00 min

Lab File: VV019346.D

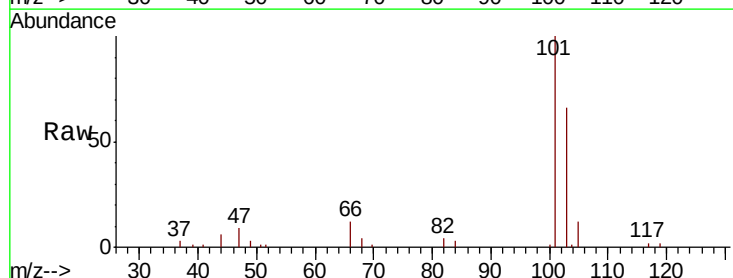
Acq: 12 Nov 2020 11:46

Tgt Ion: 101 Resp: 26700

Ion Ratio Lower Upper

101 100

103 65.8 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): VV019347.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV019347.D (-200) (-)

1.77

20000

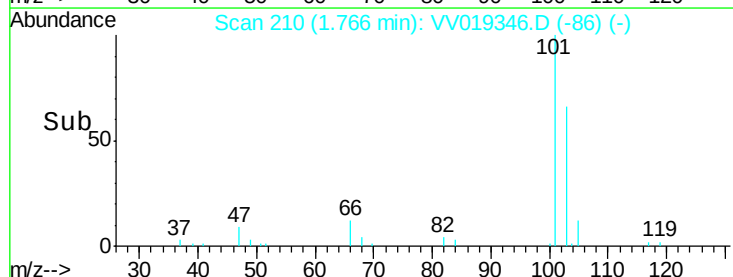
15000

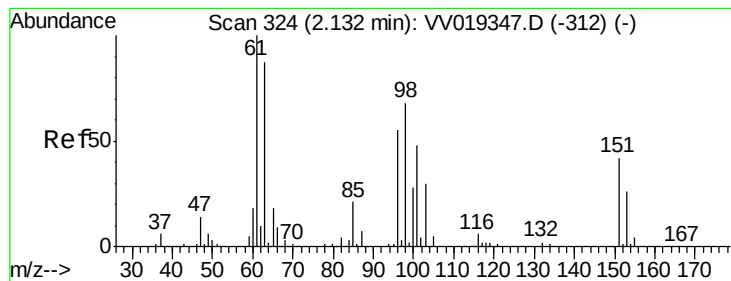
10000

5000

0

Time-->





#10

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

Concen: 9.251 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD01064

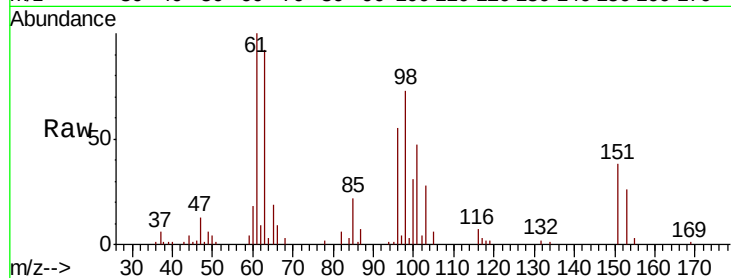
Tot Ion:101 Resp: 12151

Ion Ratio Lower Upper

101 100

85 47.4 35.8 53.6

151 85.3 69.2 103.8

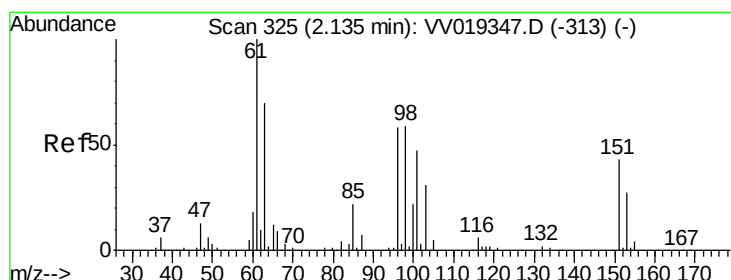
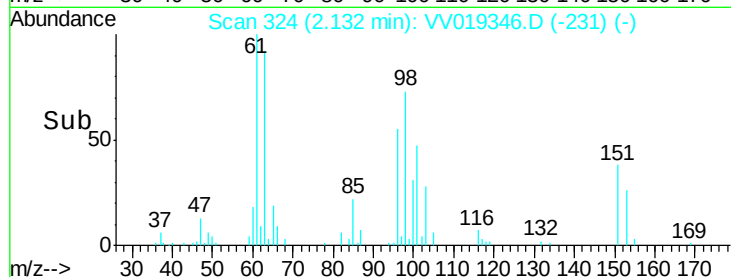


Abundance Ion 101.00 (100.70 to 101.70): VV019347.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV019347.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV019347.D (-312) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 9.770 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

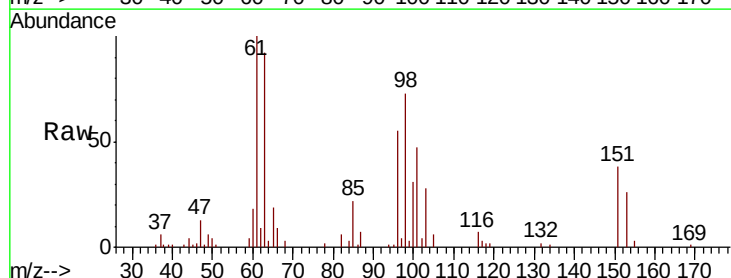
Tgt Ion: 96 Resp: 12653

Ion Ratio Lower Upper

96 100

61 180.8 121.0 224.8

63 167.1 86.2 160.0#

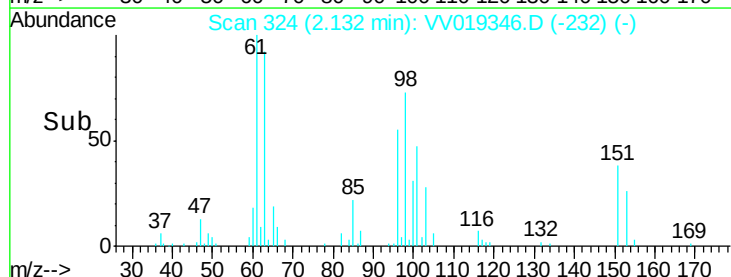


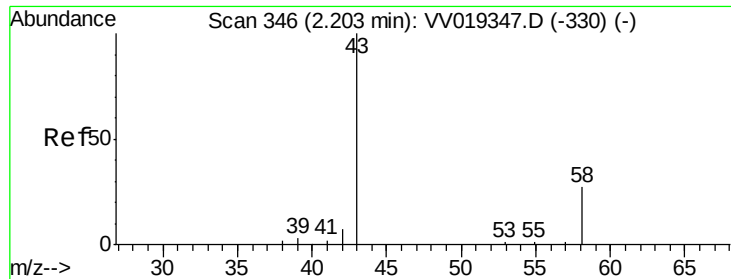
Abundance Ion 96.00 (95.70 to 96.70): VV019347.D (-313) (-)

Ion 61.00 (60.70 to 61.70): VV019347.D (-313) (-)

Ion 63.00 (62.70 to 63.70): VV019347.D (-313) (-)

Time-->





#13

Acetone

Concen: 14.817 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.01 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

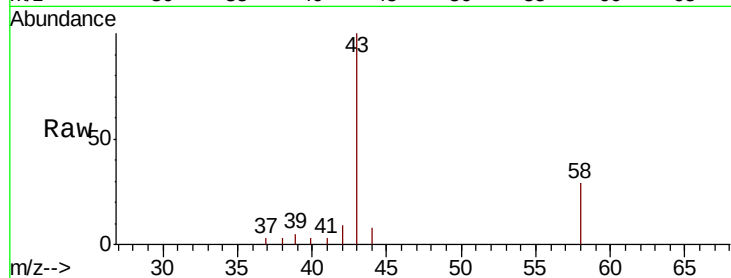
VSTD01064

Tot Ion: 43 Resp: 12803

Ion Ratio Lower Upper

43 100

58 26.6 0.0 55.8



Abundance Ion 43.00 (42.70 to 43.70): VV019347.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV019347.D (-330) (-)

2.20

6000

5000

4000

3000

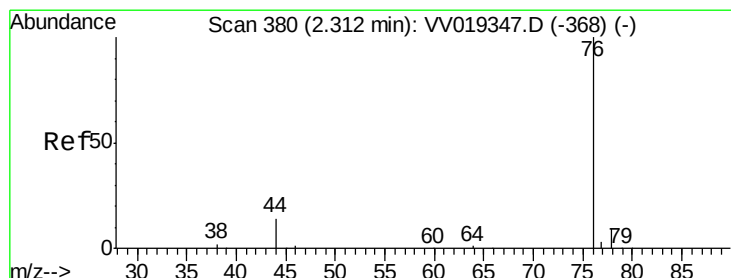
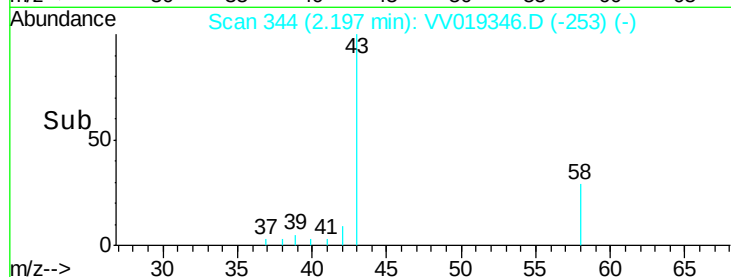
2000

1000

0

Time-->

2.10 2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 8.712 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019346.D

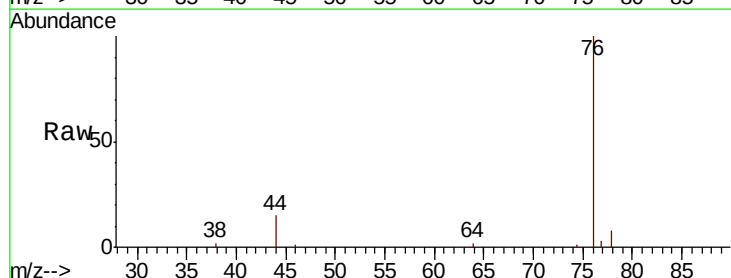
Acq: 12 Nov 2020 11:46

Tgt Ion: 76 Resp: 34941

Ion Ratio Lower Upper

76 100

78 8.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019347.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV019347.D (-368) (-)

2.31

25000

20000

15000

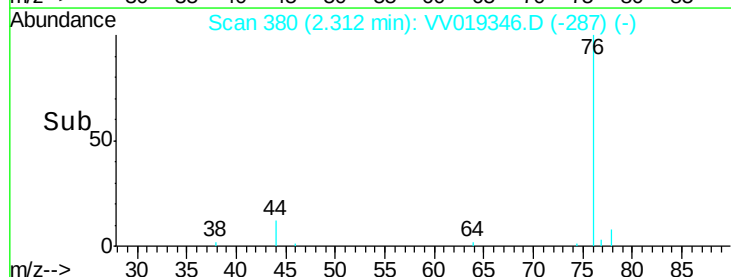
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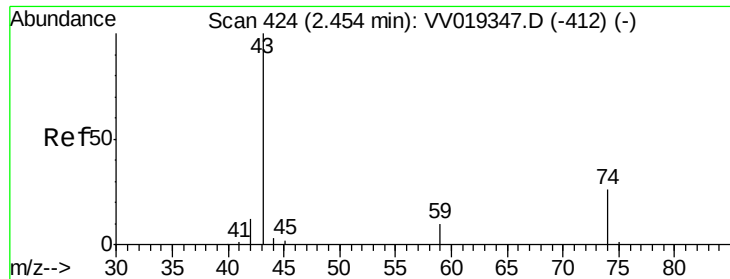
5000

0

Time-->

2.25 2.30 2.35





#15

Methvl Acetate

Concen: 7.565 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

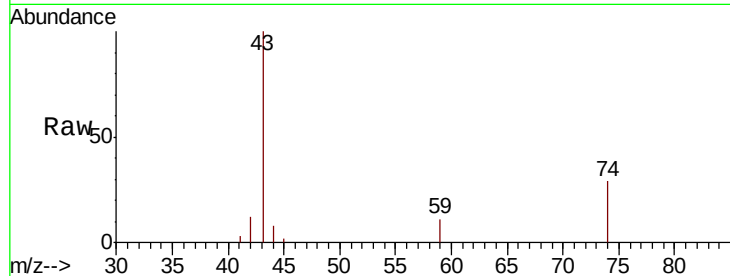
VSTD01064

Tot Ion: 43 Resp: 10561

Ion Ratio Lower Upper

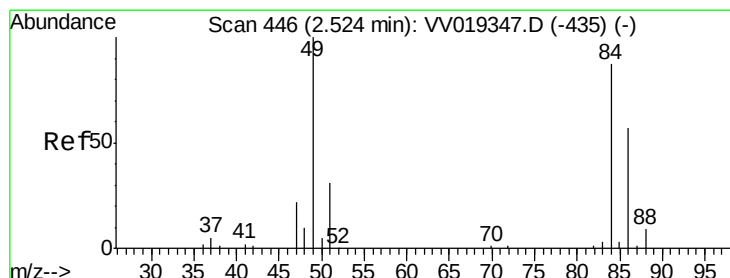
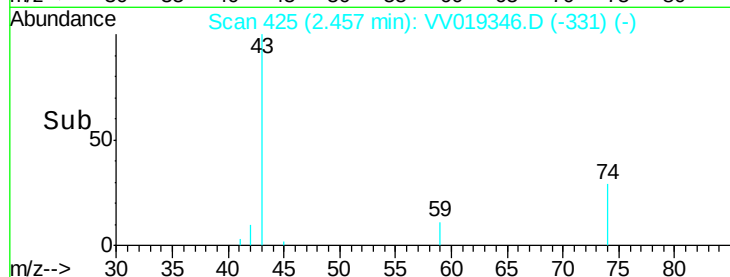
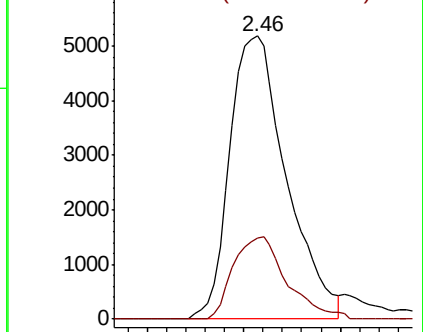
43 100

74 27.2 20.7 31.1



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 9.157 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

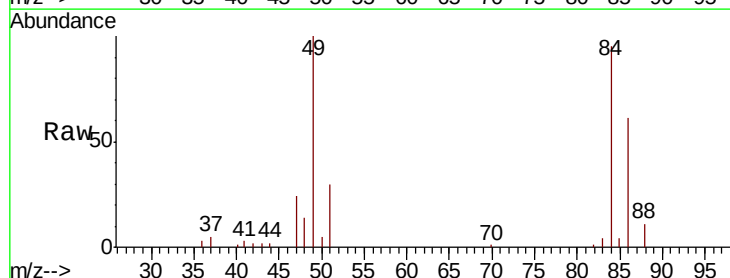
Tgt Ion: 84 Resp: 13233

Ion Ratio Lower Upper

84 100

86 64.6 45.6 84.8

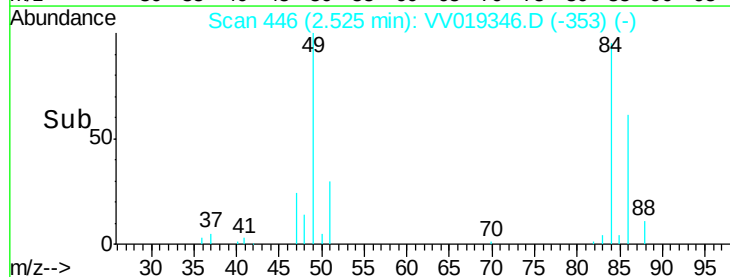
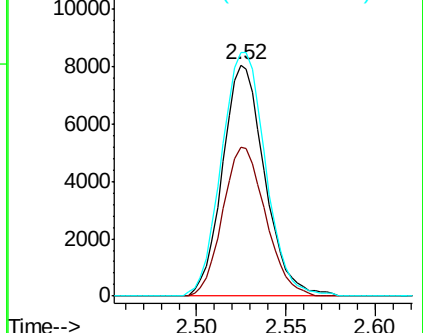
49 105.4 80.2 149.0

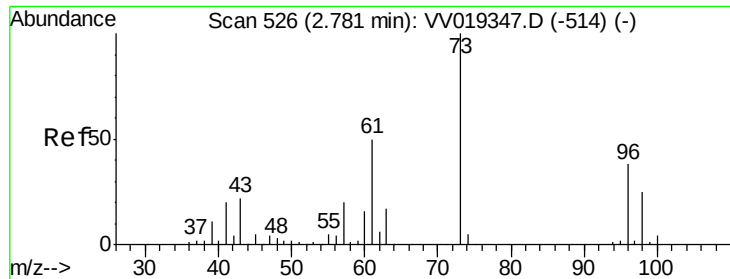


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 9.114 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD01064

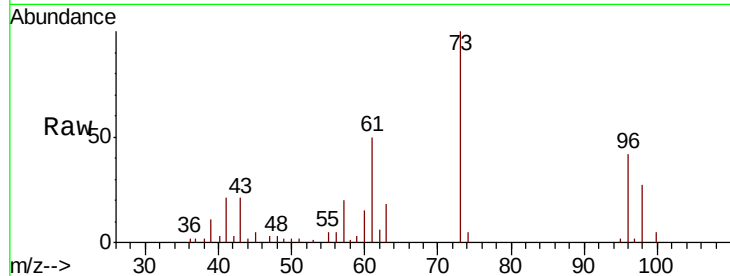
Tot Ion: 96 Resp: 12440

Ion Ratio Lower Upper

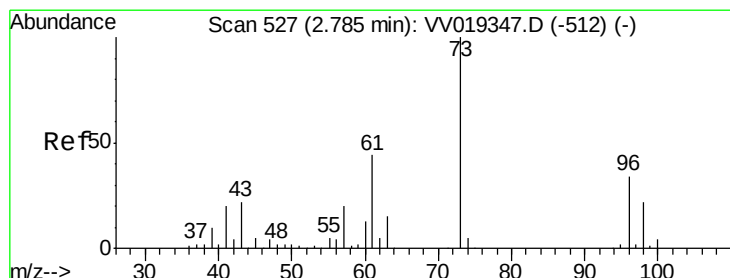
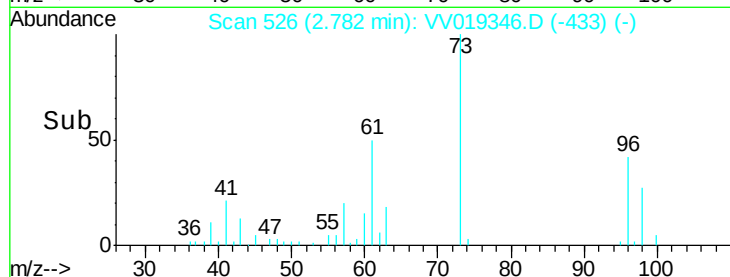
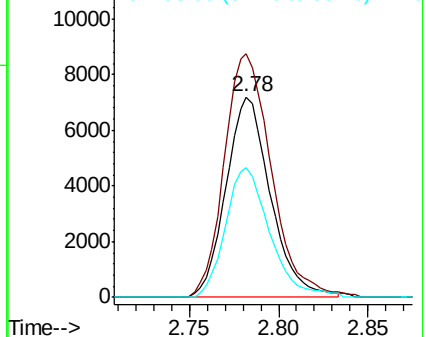
96 100

61 121.4 91.8 170.6

98 64.4 45.1 83.7



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



#18

Methyl tert-butyl Ether

Concen: 8.361 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

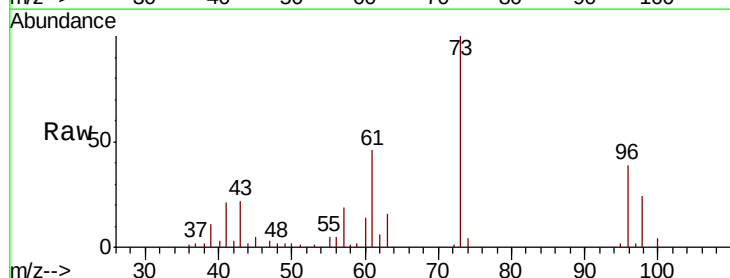
Tgt Ion: 73 Resp: 38122

Ion Ratio Lower Upper

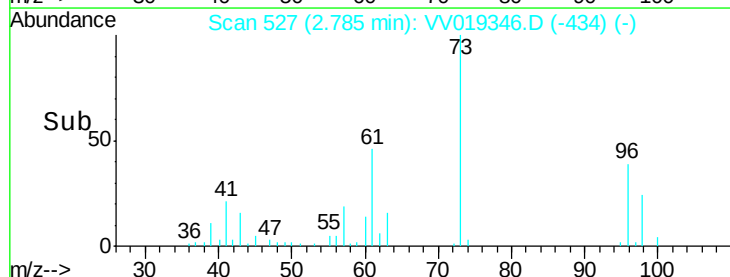
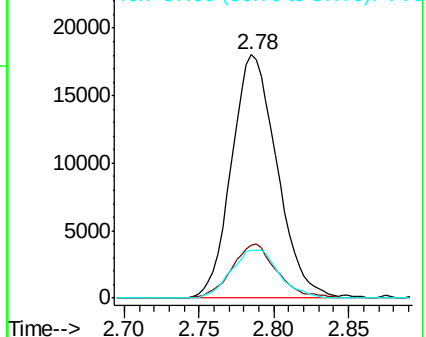
73 100

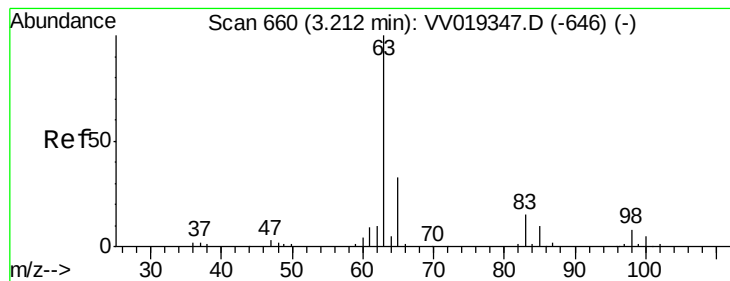
43 21.9 17.2 25.8

57 20.7 15.9 23.9



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: 8.481 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD01064

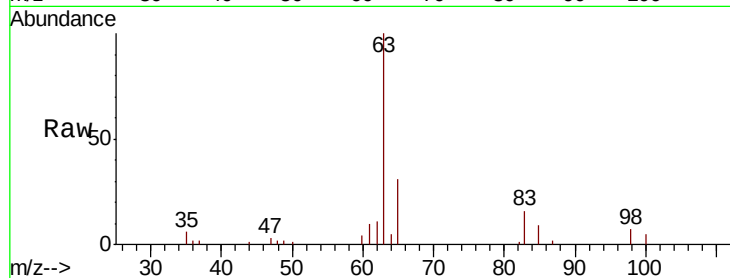
Tot Ion: 63 Resp: 21277

Ion Ratio Lower Upper

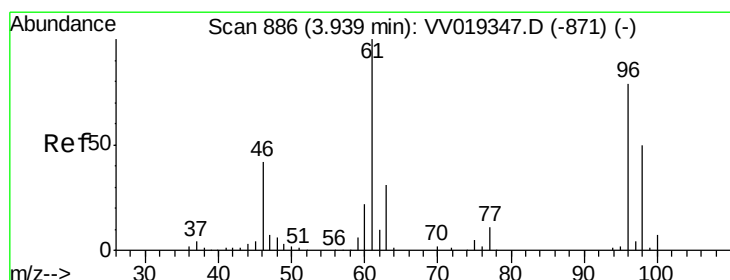
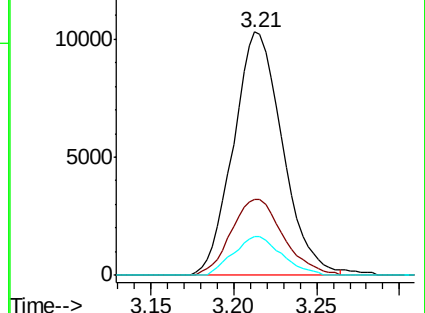
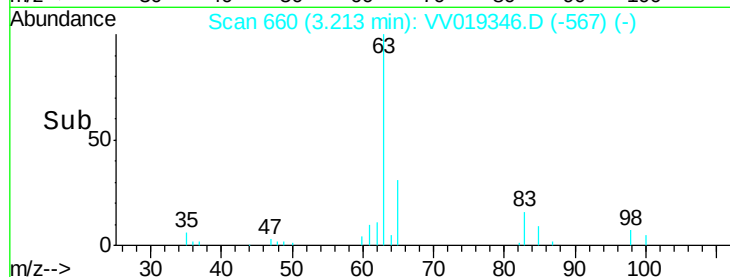
63 100

65 31.3 23.0 42.8

83 15.7 10.7 19.9



Abundance Ion 63.00 (62.70 to 63.70): VV019346.D (-567) (-)



#20

cis-1,2-Dichloroethene

Concen: 8.587 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

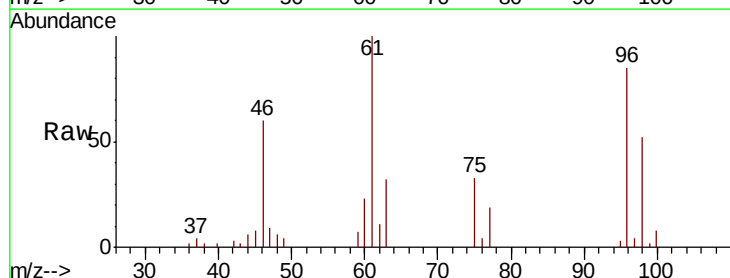
Tgt Ion: 96 Resp: 12812

Ion Ratio Lower Upper

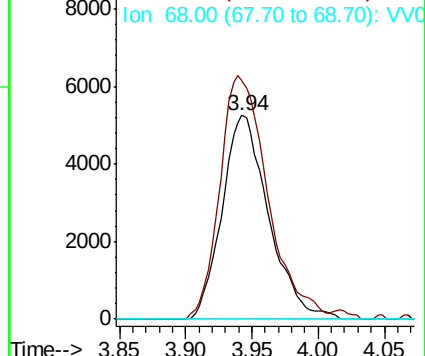
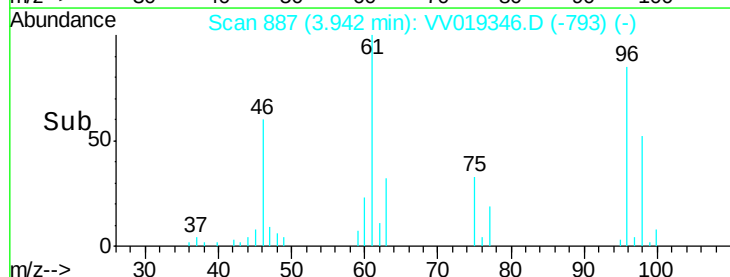
96 100

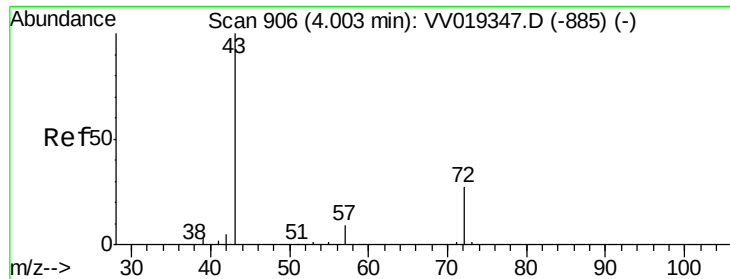
61 117.3 88.2 163.8

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV019346.D (-793) (-)





#22

2-Butanone

Concen: 13.324 ug/L

RT: 4.01 min Scan# 909

Delta R.T. 0.01 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

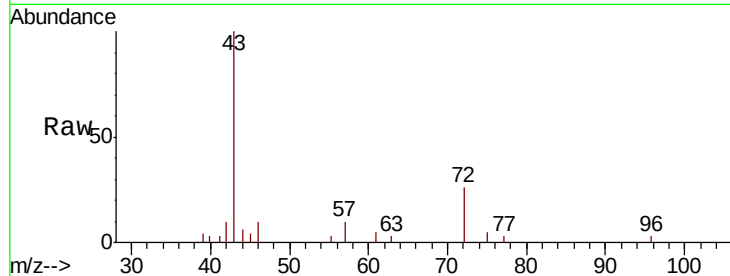
VSTD01064

Tot Ion: 43 Resp: 12464

Ion Ratio Lower Upper

43 100

72 12.0 13.1 39.3#



Abundance Ion 43.00 (42.70 to 43.70): VV019346.D (-813) (-)

Ion 72.00 (71.70 to 72.70): VV019346.D (-813) (-)

4.01

4000

3000

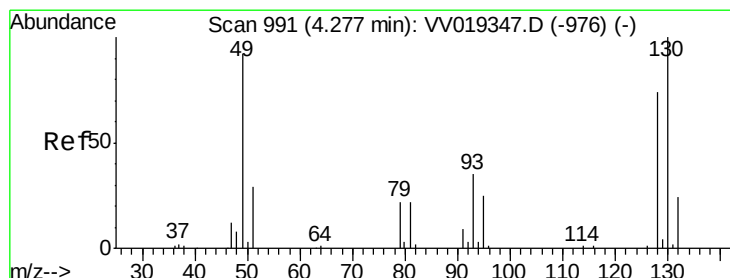
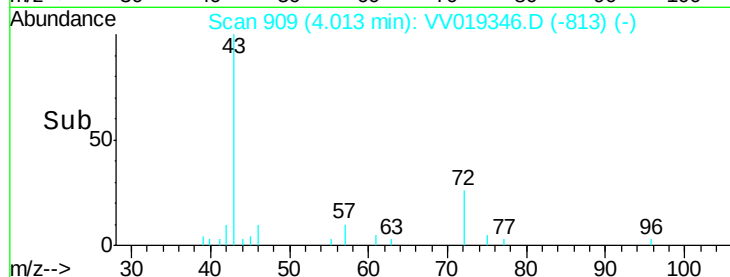
2000

1000

0

3.95 4.00 4.05 4.10 4.15

Time-->



#23

Bromochloromethane

Concen: 9.133 ug/L

RT: 4.29 min Scan# 994

Delta R.T. 0.01 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Tgt Ion: 128 Resp: 7446

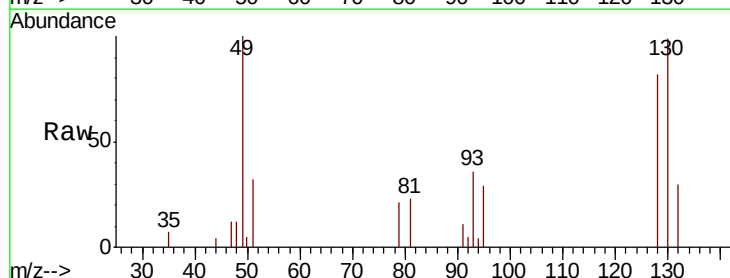
Ion Ratio Lower Upper

128 100

49 122.4 86.2 160.0

130 121.0 94.0 174.6

51 39.8 30.6 46.0



Abundance Ion 128.00 (127.70 to 128.70): VV019346.D (-898) (-)

Ion 49.00 (48.70 to 49.70): VV019346.D (-898) (-)

Ion 130.00 (129.70 to 130.70): VV019346.D (-898) (-)

Ion 51.00 (50.70 to 51.70): VV019346.D (-898) (-)

4.29

6000

5000

4000

3000

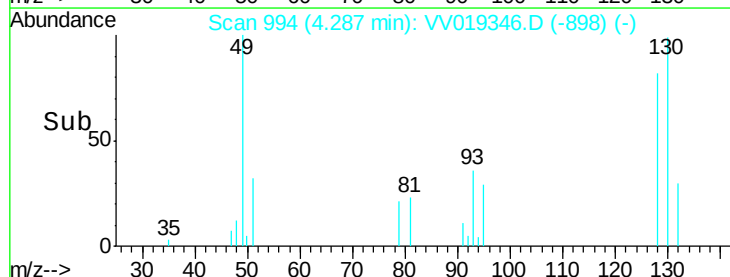
2000

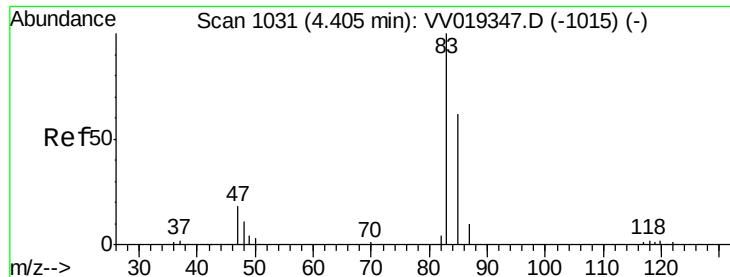
1000

0

4.20 4.25 4.30 4.35

Time-->

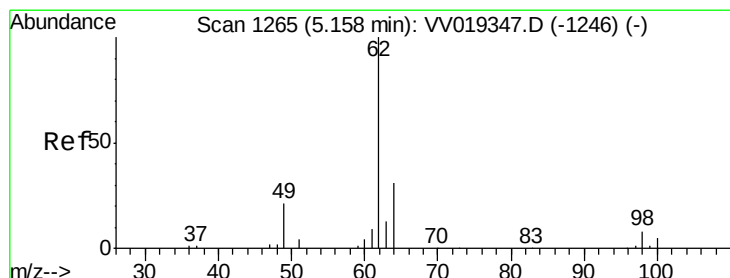
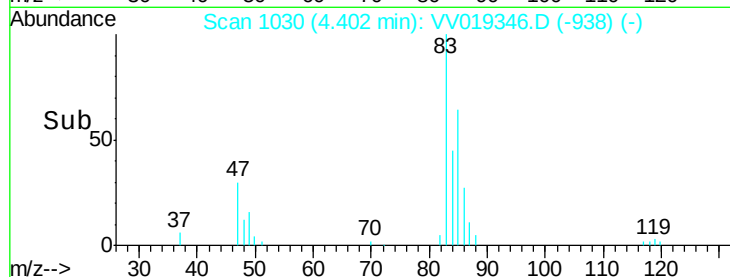
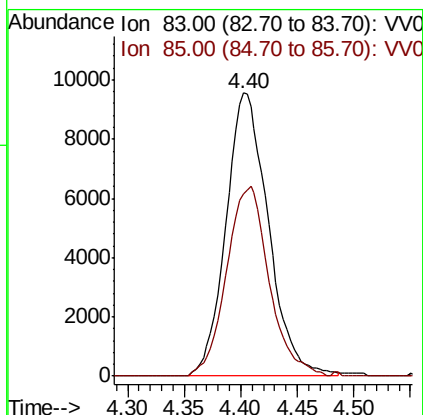
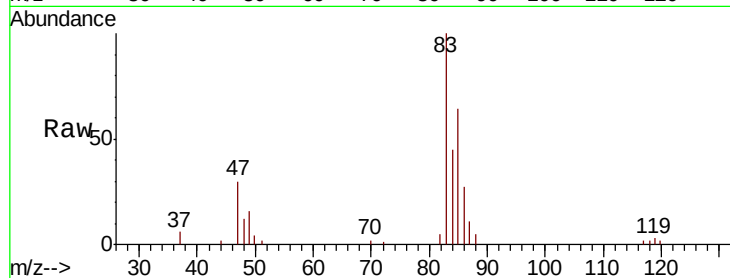




#25
Chloroform
Concen: 9.041 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VV019346.D
Acq: 12 Nov 2020 11:46

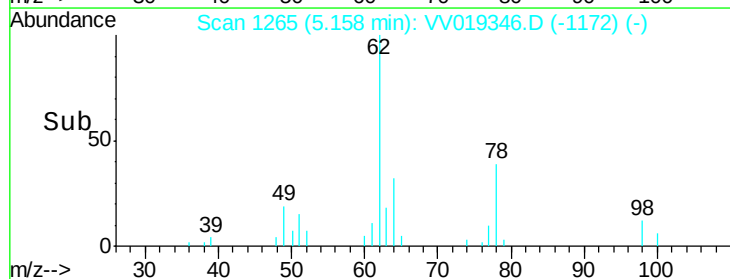
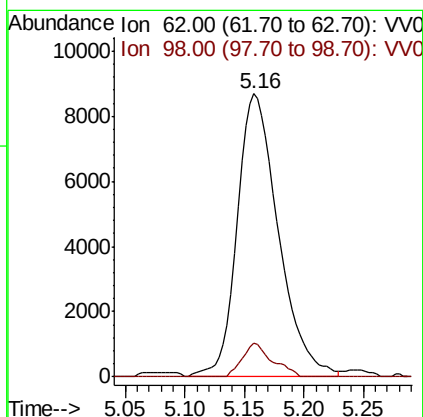
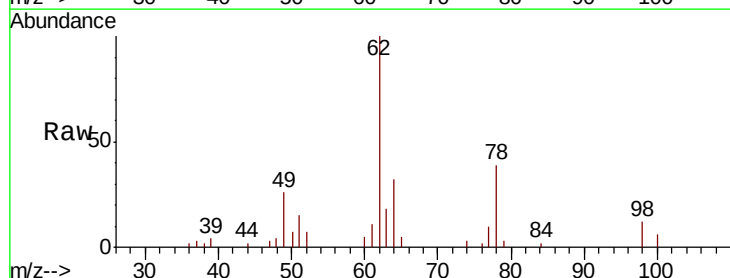
Instrument :
MSVOA_V
ClientSampleId :
VSTD01064

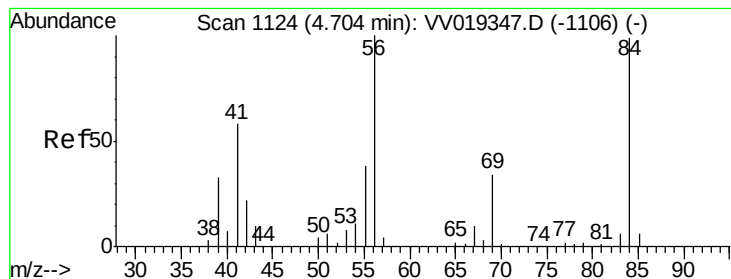
Tot Ion: 83 Resp: 24932
Ion Ratio Lower Upper
83 100
85 64.4 44.0 81.8



#27
1,2-Dichloroethane
Concen: 8.851 ug/L
RT: 5.16 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VV019346.D
Acq: 12 Nov 2020 11:46

Tgt Ion: 62 Resp: 20878
Ion Ratio Lower Upper
62 100
98 11.8 6.7 10.1#





#29

Cyclohexane

Concen: 6.971 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD01064

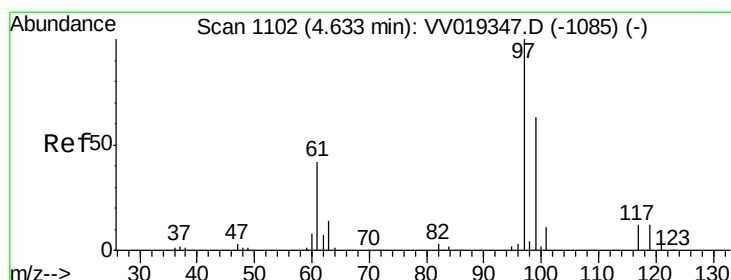
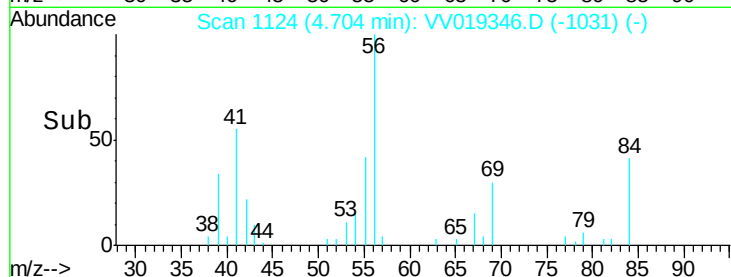
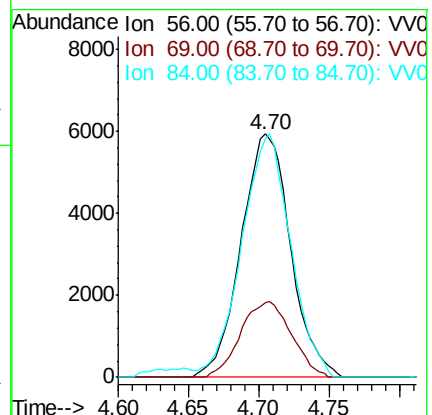
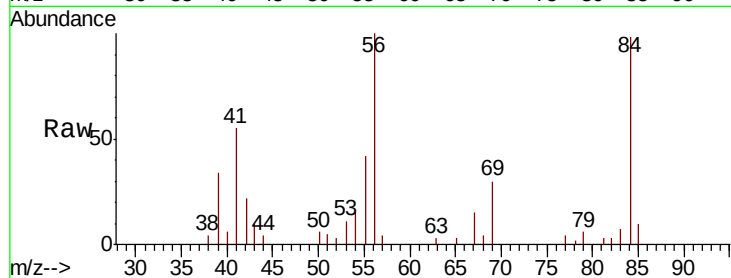
Tot Ion: 56 Resp: 14603

Ion Ratio Lower Upper

56 100

69 31.9 26.7 40.1

84 98.4 79.5 119.3



#30

1,1,1-Trichloroethane

Concen: 9.194 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

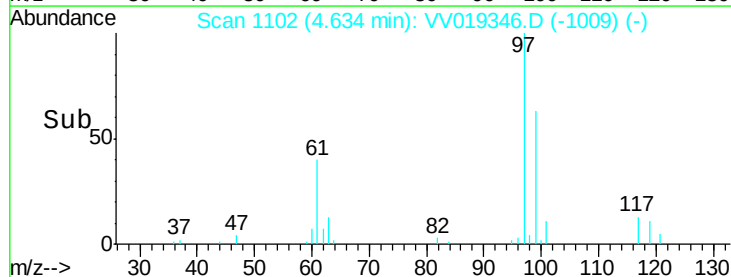
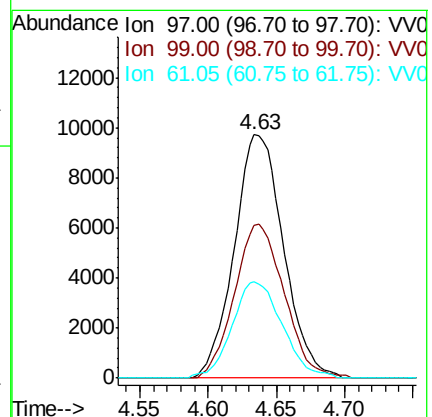
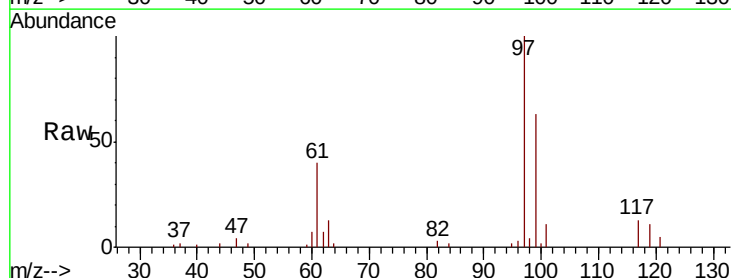
Tgt Ion: 97 Resp: 24407

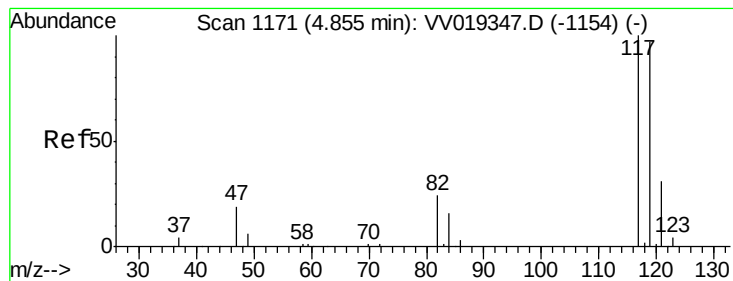
Ion Ratio Lower Upper

97 100

99 63.7 51.0 76.6

61 40.4 33.2 49.8





#31

Carbon tetrachloride

Concen: 9.263 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

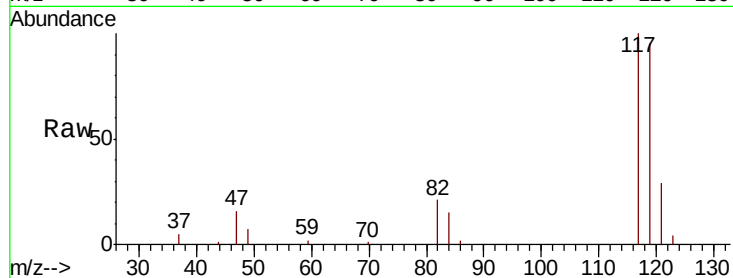
VSTD01064

Tot Ion:117 Resp: 21906

Ion Ratio Lower Upper

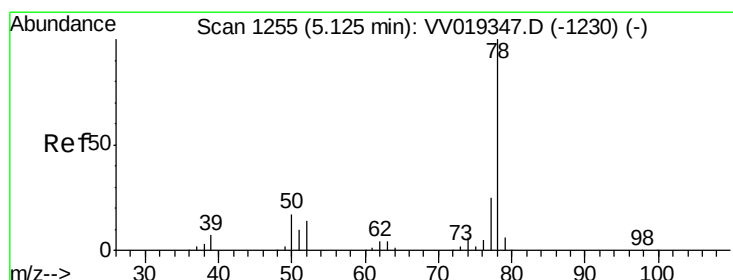
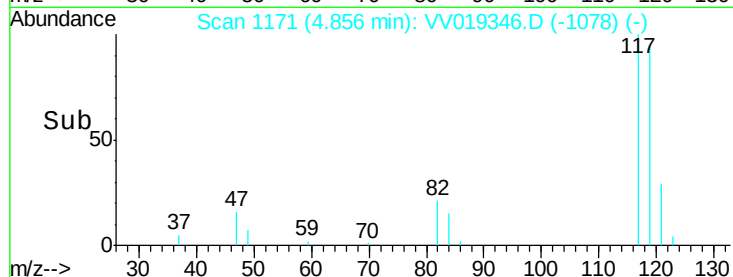
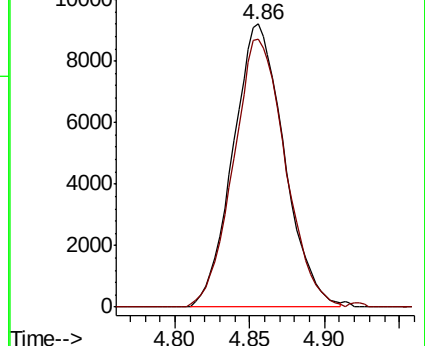
117 100

119 96.1 77.0 115.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 8.077 ug/L

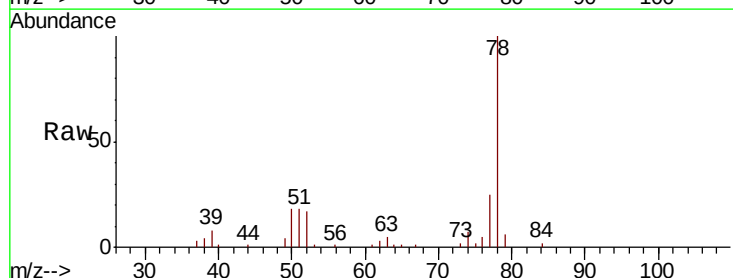
RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

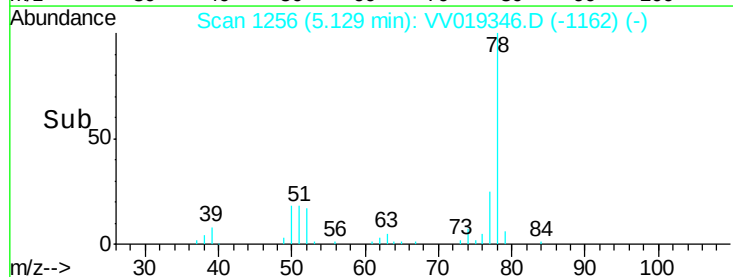
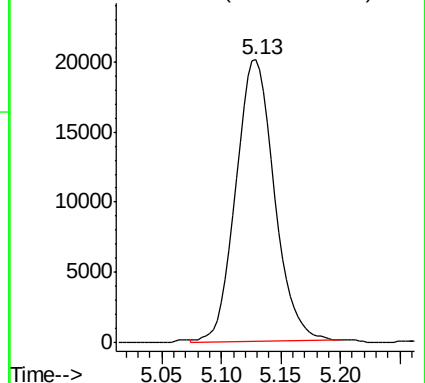
Lab File: VV019346.D

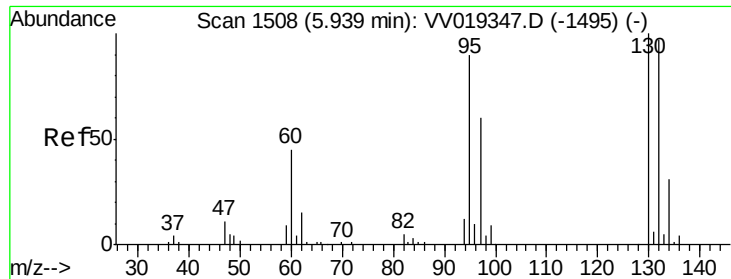
Acq: 12 Nov 2020 11:46

Tgt Ion: 78 Resp: 45017



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 9.240 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD01064

Tot Ion: 95 Resp: 14285

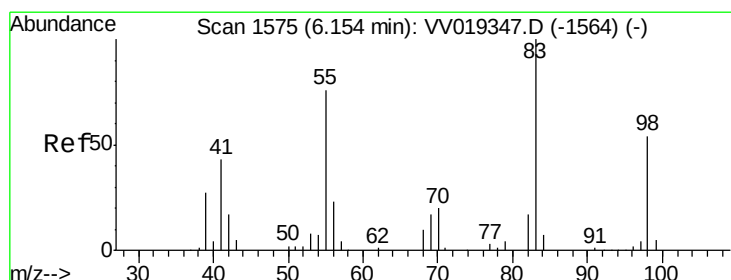
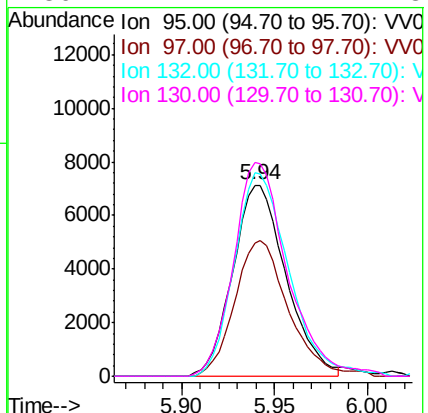
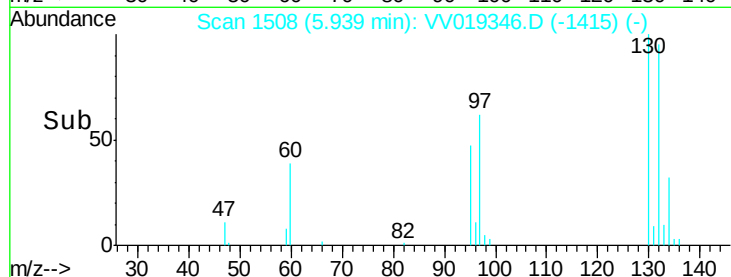
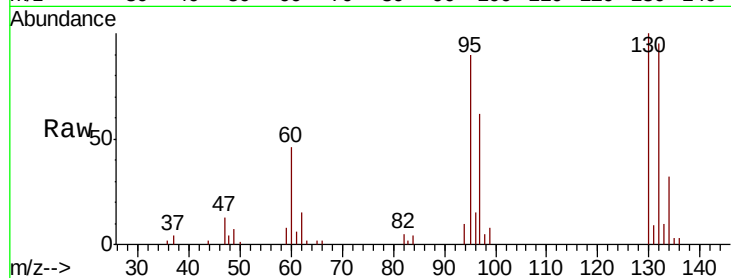
Ion Ratio Lower Upper

95 100

97 69.4 46.8 86.8

132 106.2 75.5 140.3

130 111.7 77.7 144.3



#35

Methylcyclohexane

Concen: 7.831 ug/L

RT: 6.15 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

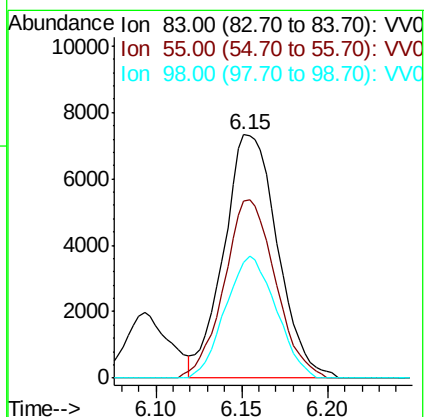
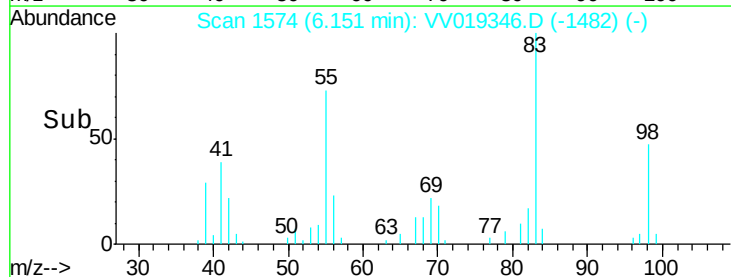
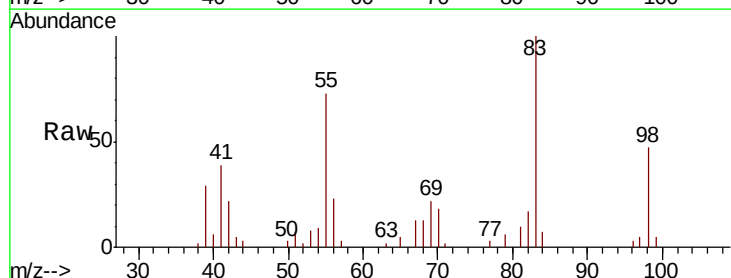
Tgt Ion: 83 Resp: 15946

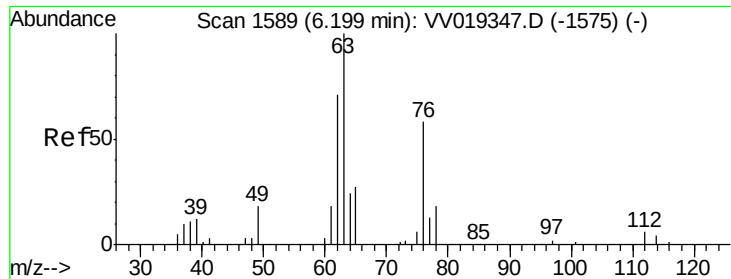
Ion Ratio Lower Upper

83 100

55 70.1 58.6 88.0

98 47.1 41.4 62.0

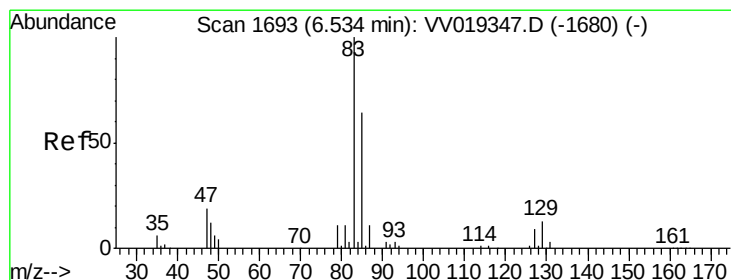
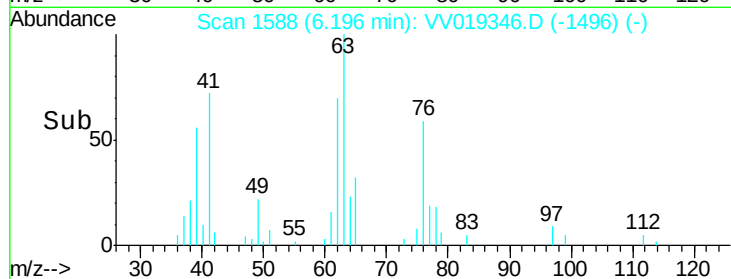
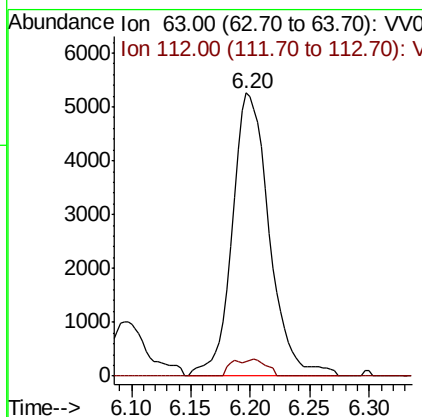
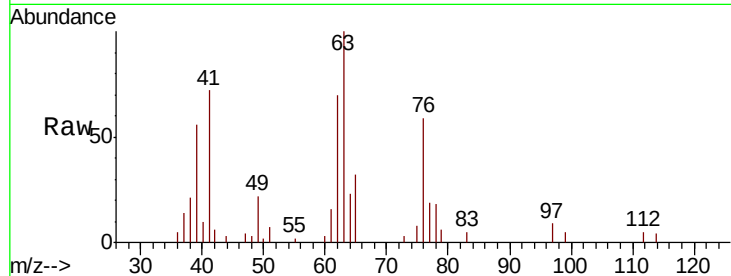




#37
 1,2-Dichloropropane
 Concen: 8.275 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. -0.00 min
 Lab File: VV019346.D
 Acq: 12 Nov 2020 11:46

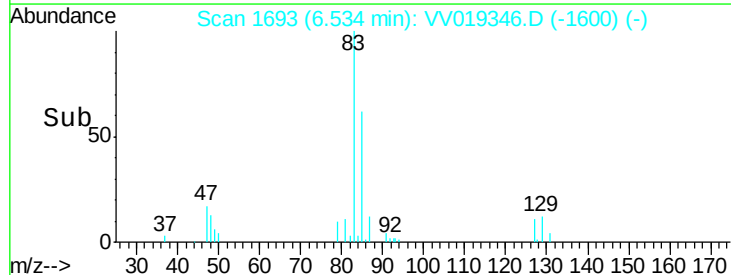
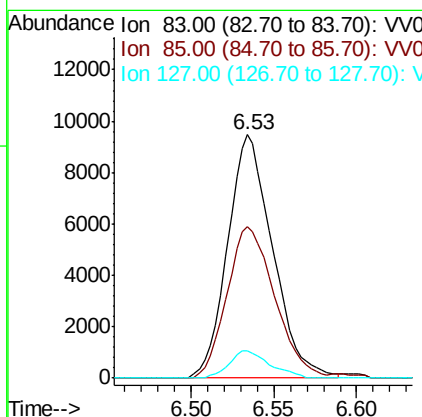
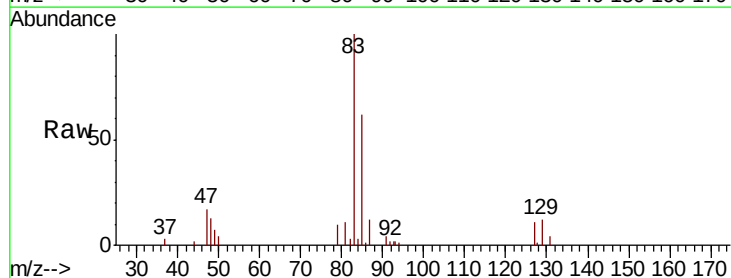
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01064

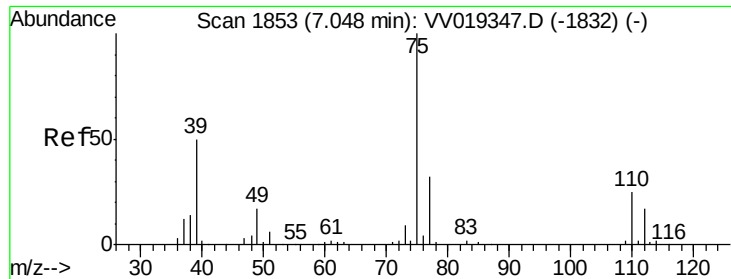
Tot Ion: 63 Resp: 11371
 Ion Ratio Lower Upper
 63 100
 112 3.3 4.6 6.8#



#38
 Bromodichloromethane
 Concen: 8.585 ug/L
 RT: 6.53 min Scan# 1693
 Delta R.T. 0.00 min
 Lab File: VV019346.D
 Acq: 12 Nov 2020 11:46

Tgt Ion: 83 Resp: 17894
 Ion Ratio Lower Upper
 83 100
 85 62.1 45.1 83.7
 127 11.3 7.2 10.8#

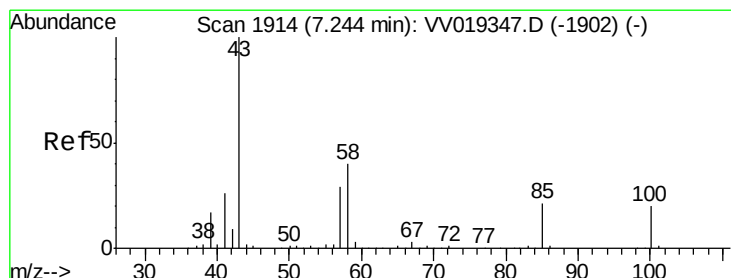
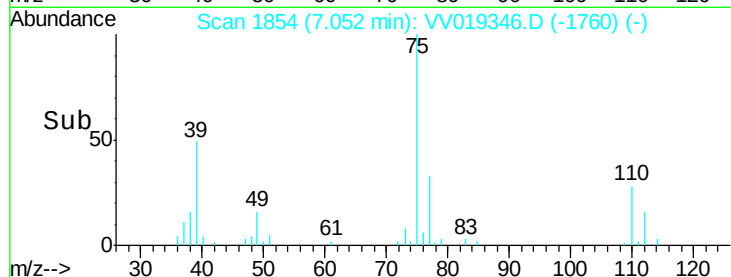
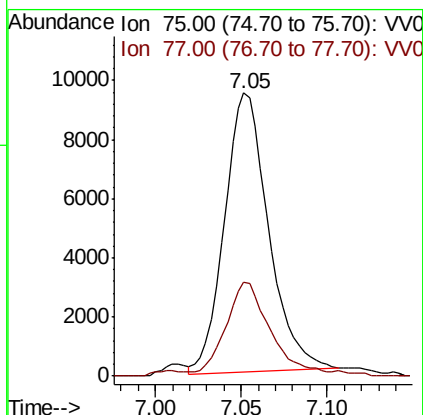
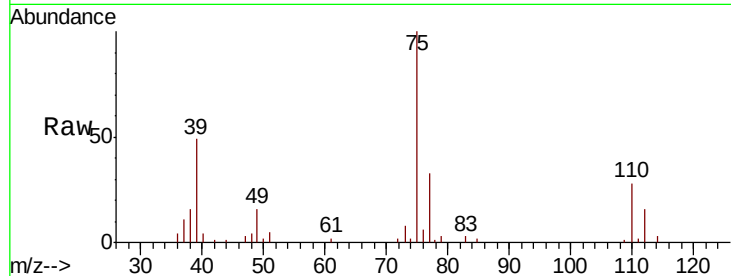




#39
 cis-1,3-Dichloropropene
 Concen: 7.373 ug/L
 RT: 7.05 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: VV019346.D
 Acq: 12 Nov 2020 11:46

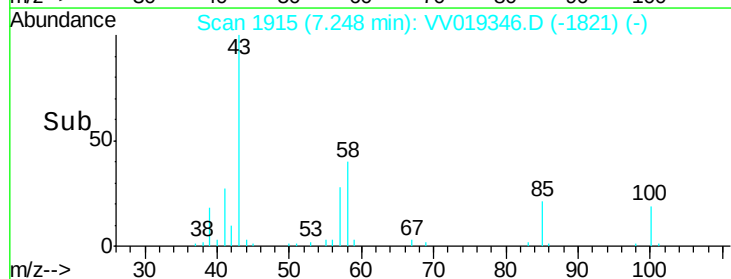
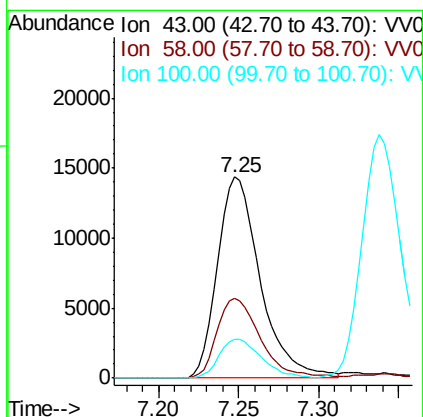
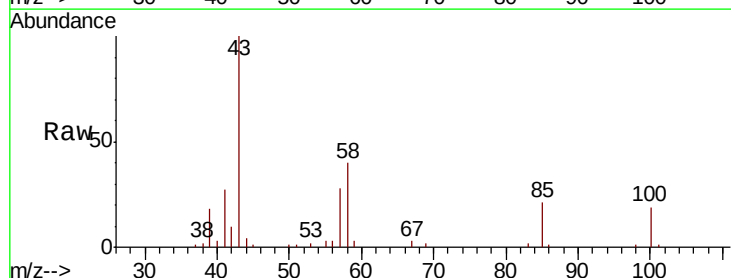
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD01064

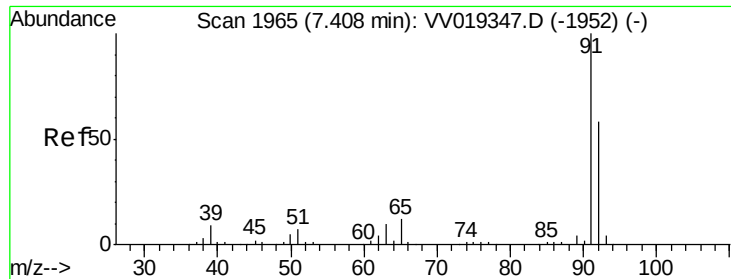
Tot Ion: 75 Resp: 16916
 Ion Ratio Lower Upper
 75 100
 77 33.1 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 14.196 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VV019346.D
 Acq: 12 Nov 2020 11:46

Tgt Ion: 43 Resp: 26417
 Ion Ratio Lower Upper
 43 100
 58 40.2 32.7 49.1
 100 19.1 15.9 23.9





#42

Toluene

Concen: 8.254 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

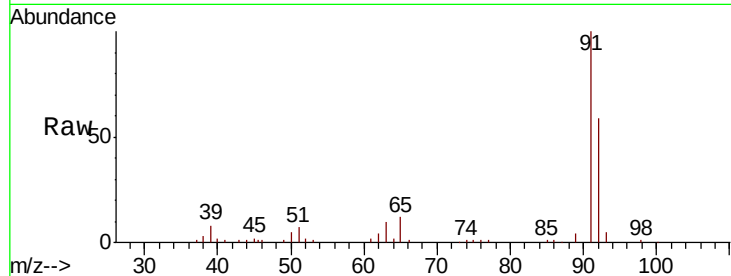
VSTD01064

Tot Ion: 91 Resp: 50460

Ion Ratio Lower Upper

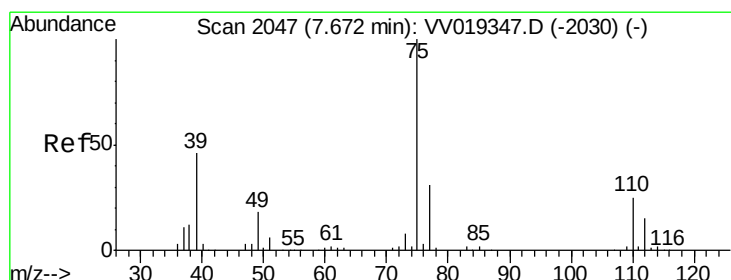
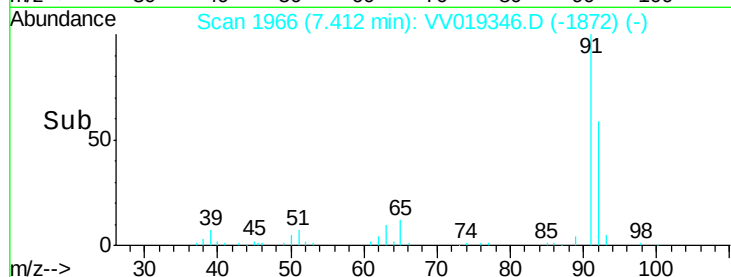
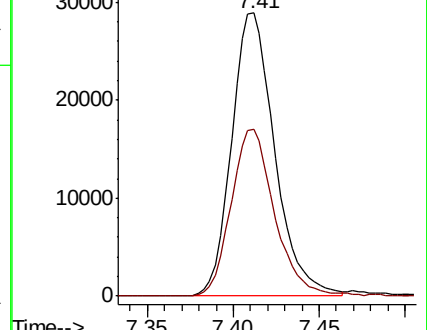
91 100

92 59.1 40.5 75.3



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 7.992 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VV019346.D

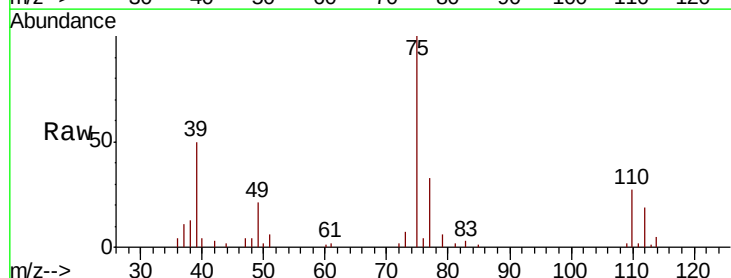
Acq: 12 Nov 2020 11:46

Tgt Ion: 75 Resp: 19180

Ion Ratio Lower Upper

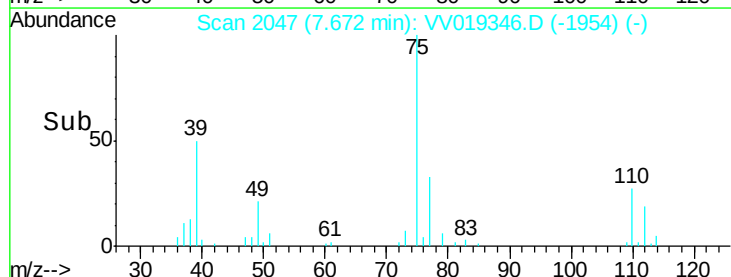
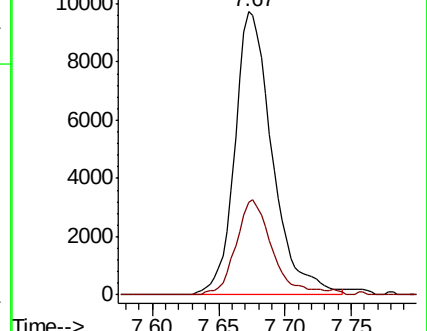
75 100

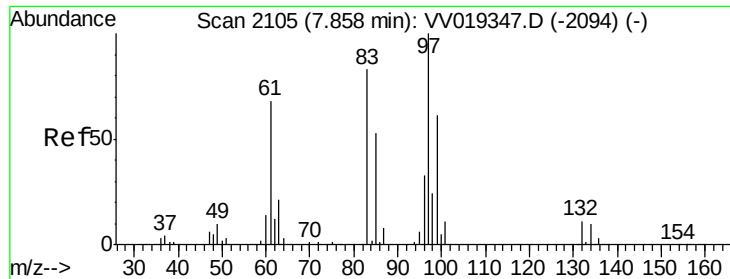
77 32.6 22.0 41.0



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#45

1,1,2-Trichloroethane

Concen: 8.672 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD01064

Tot Ion: 97 Resp: 12199

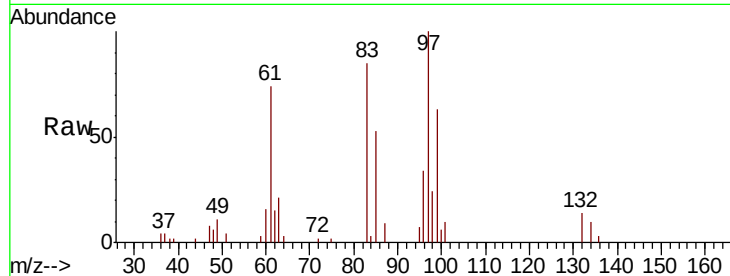
Ion Ratio Lower Upper

97 100

99 63.0 42.5 78.9

83 85.1 58.1 107.9

85 52.8 37.2 69.0

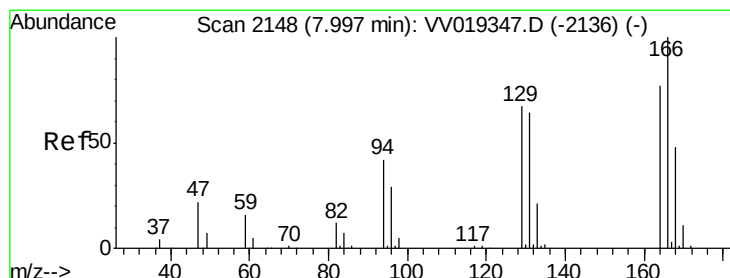
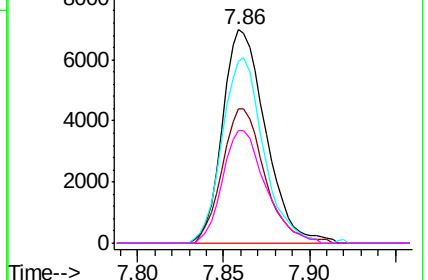
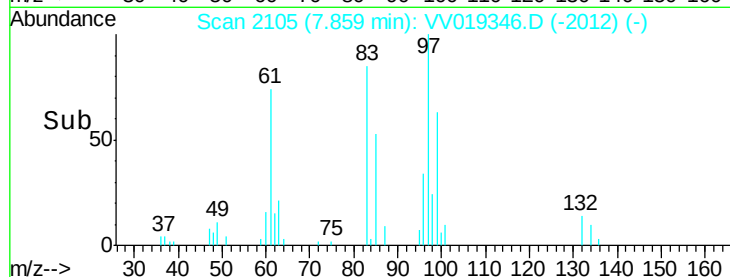


Abundance Ion 97.00 (96.70 to 97.70): VV0

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



#46

Tetrachloroethene

Concen: 9.416 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Tgt Ion: 164 Resp: 12505

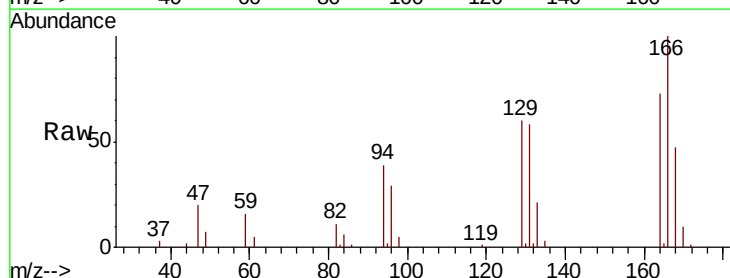
Ion Ratio Lower Upper

164 100

129 82.6 60.9 113.1

131 79.8 58.9 109.5

166 137.7 91.4 169.8

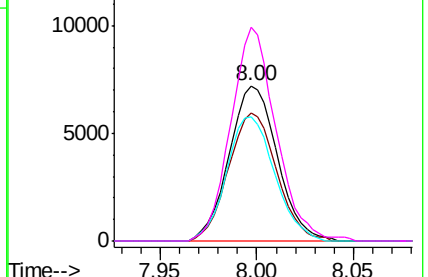
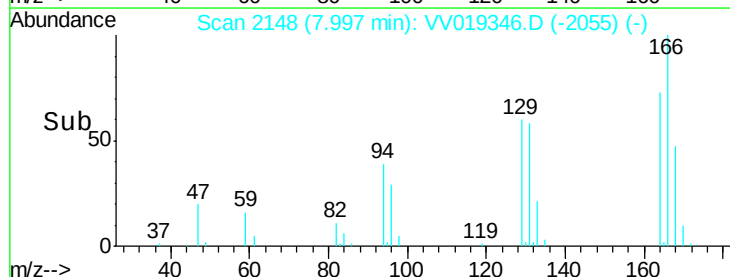


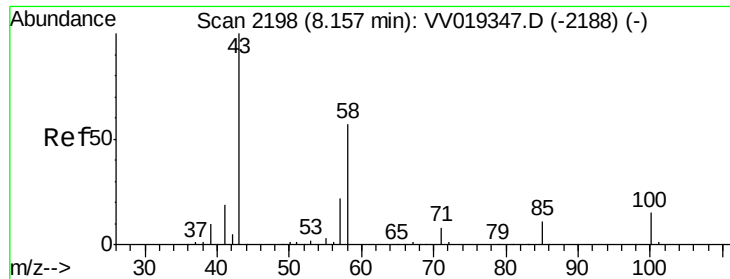
Abundance Ion 164.00 (163.70 to 164.70): V

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

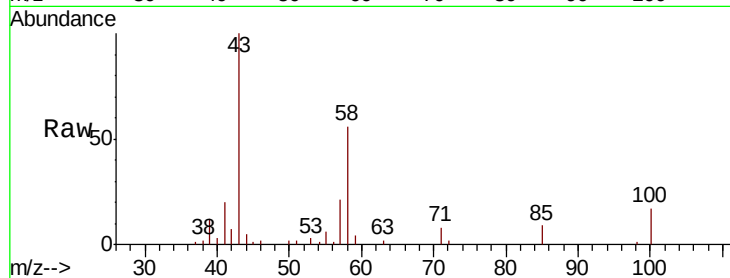




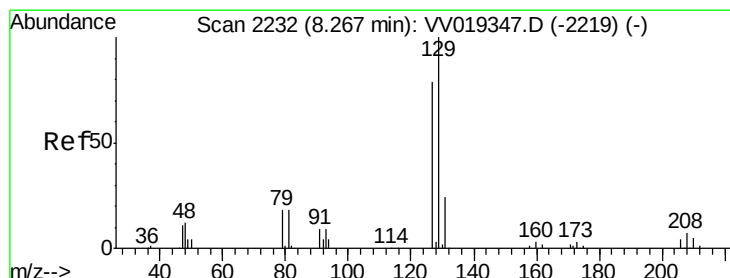
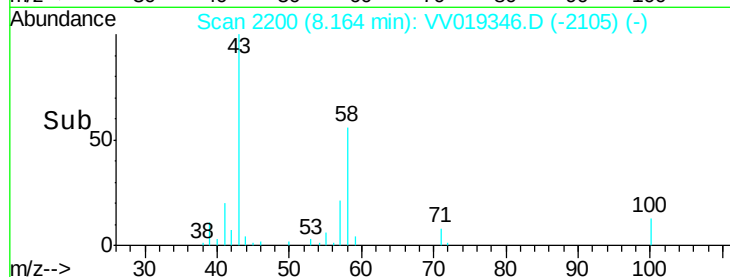
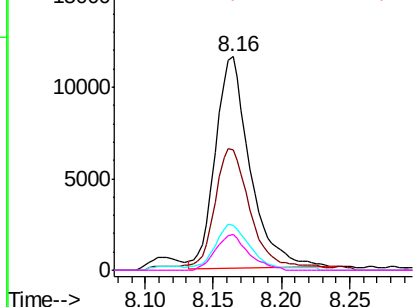
#48
2-Hexanone
Concen: 13.741 ug/L
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VV019346.D
Acq: 12 Nov 2020 11:46

Instrument :
MSVOA_V
ClientSampleId :
VSTD01064

Tot Ion: 43 Resp: 20434
Ion Ratio Lower Upper
43 100
58 56.1 43.6 65.4
57 22.0 17.2 25.8
100 15.9 11.9 17.9

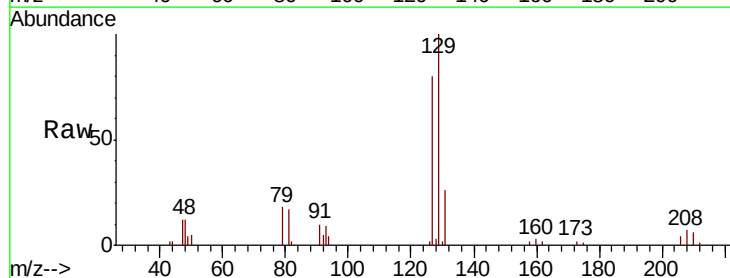


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

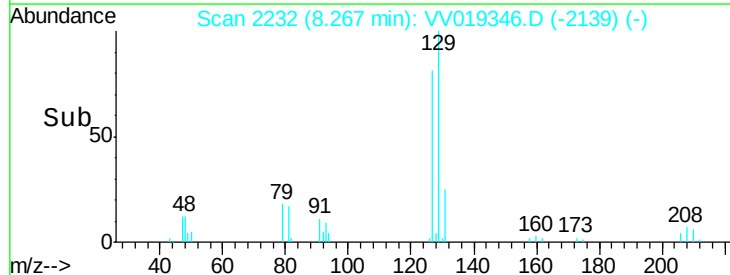
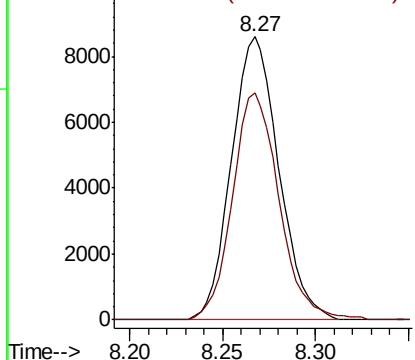


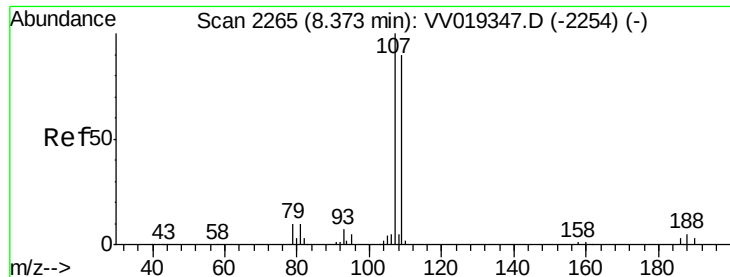
#49
Dibromochloromethane
Concen: 8.860 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. 0.00 min
Lab File: VV019346.D
Acq: 12 Nov 2020 11:46

Tgt Ion: 129 Resp: 15243
Ion Ratio Lower Upper
129 100
127 80.1 54.9 102.1



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

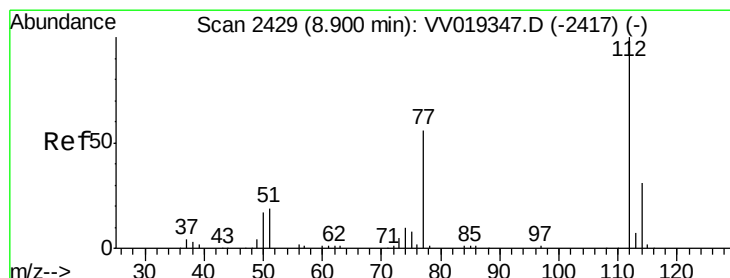
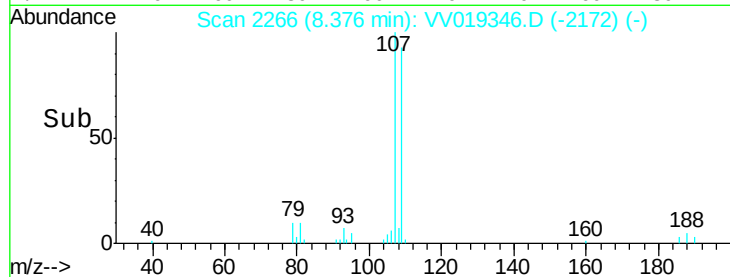
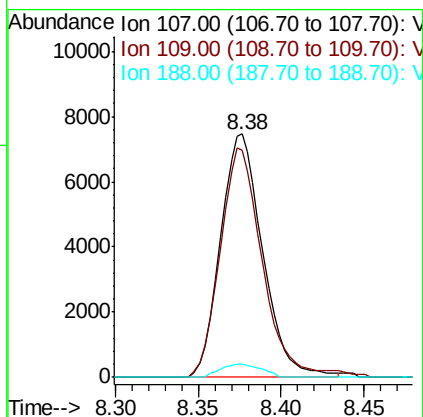
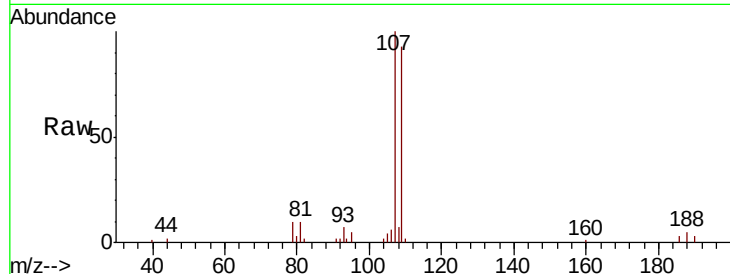




#50
1,2-Dibromoethane
Concen: 8.771 ug/L
RT: 8.38 min Scan# 2266
Delta R.T. 0.00 min
Lab File: VV019346.D
Acq: 12 Nov 2020 11:46

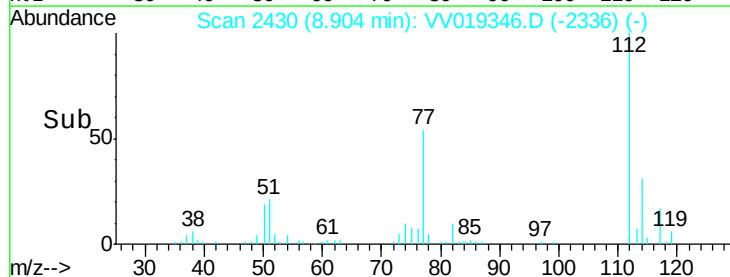
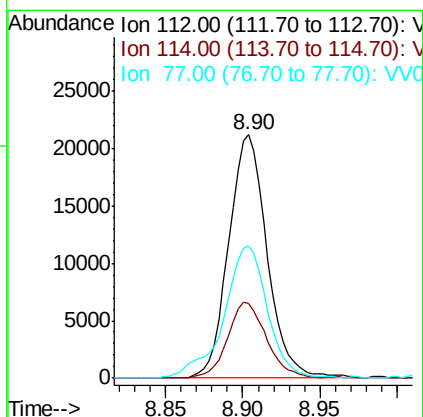
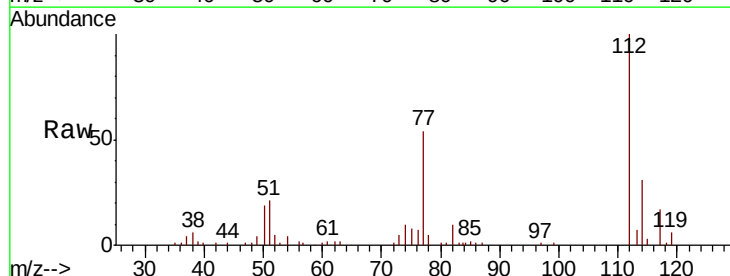
Instrument :
MSVOA_V
ClientSampleId :
VSTD01064

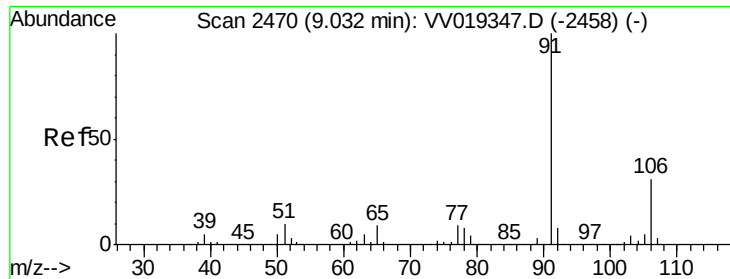
Tot Ion:107 Resp: 13191
Ion Ratio Lower Upper
107 100
109 93.2 62.9 116.9
188 5.3 3.6 5.4



#51
Chlorobenzene
Concen: 9.023 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV019346.D
Acq: 12 Nov 2020 11:46

Tgt Ion:112 Resp: 36479
Ion Ratio Lower Upper
112 100
114 30.6 21.8 40.6
77 54.5 45.1 67.7

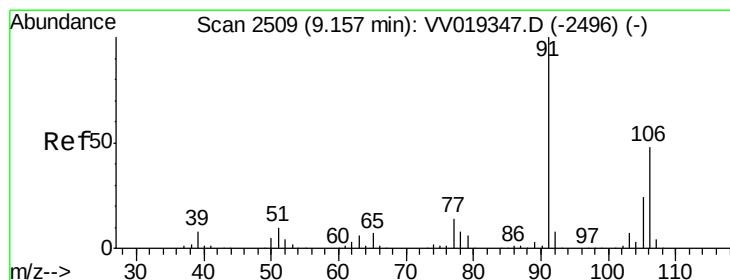
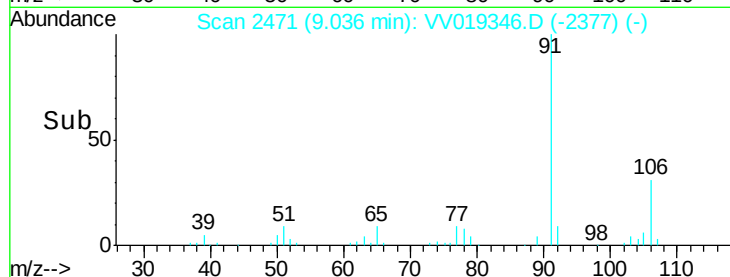
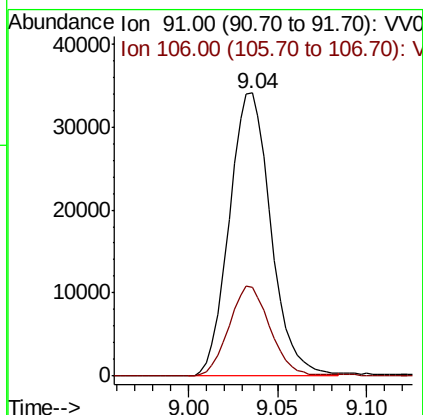
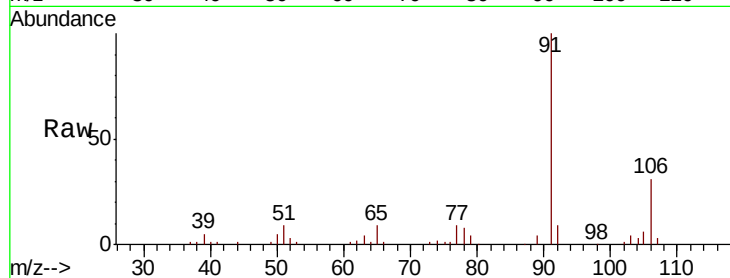




#52
Ethylbenzene
Concen: 8.215 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV019346.D
Acq: 12 Nov 2020 11:46

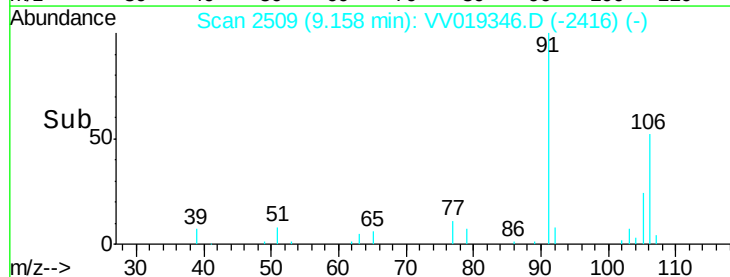
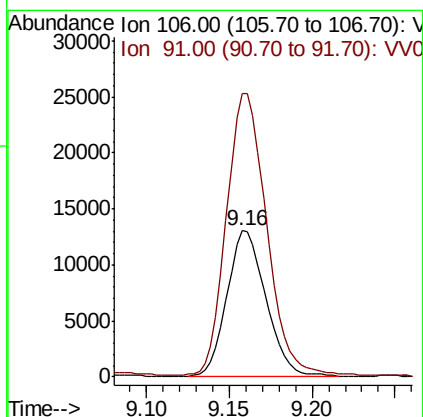
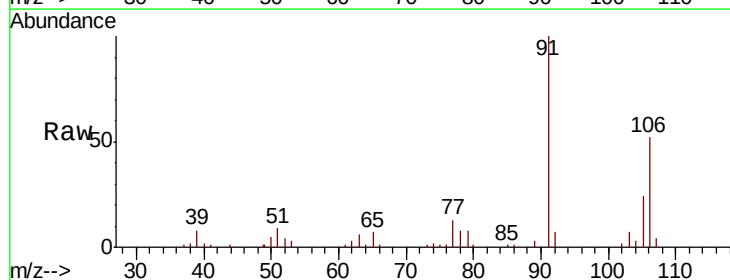
Instrument :
MSVOA_V
ClientSampleId :
VSTD01064

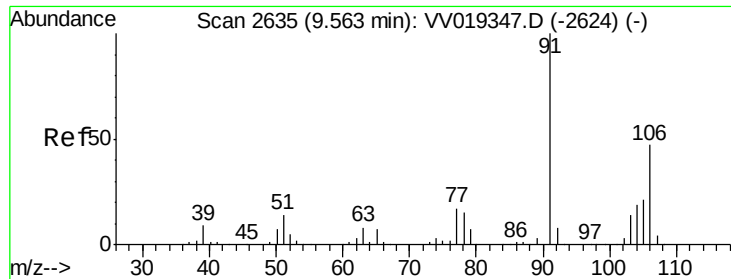
Tot Ion: 91 Resp: 55593
Ion Ratio Lower Upper
91 100
106 31.2 21.8 40.4



#53
m,p-Xylene
Concen: 8.428 ug/L
RT: 9.16 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VV019346.D
Acq: 12 Nov 2020 11:46

Tgt Ion: 106 Resp: 21527
Ion Ratio Lower Upper
106 100
91 194.0 144.9 269.1





#54

o-xylene

Concen: 8.432 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

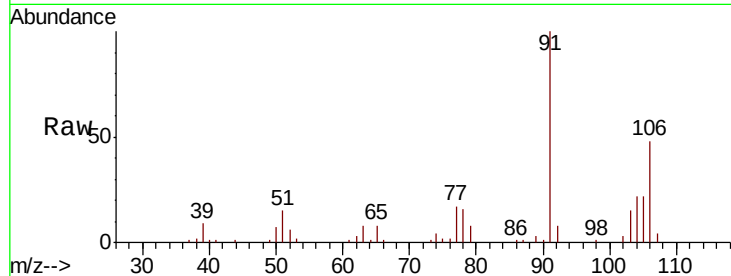
VSTD01064

Tot Ion:106 Resp: 20787

Ion Ratio Lower Upper

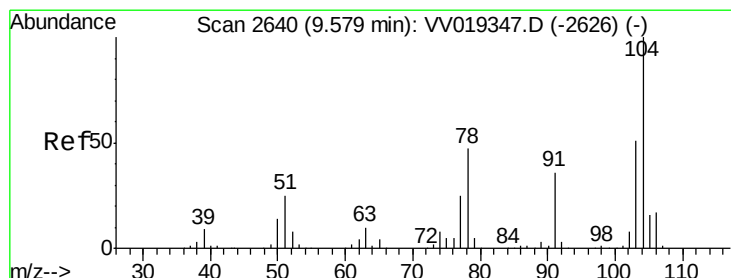
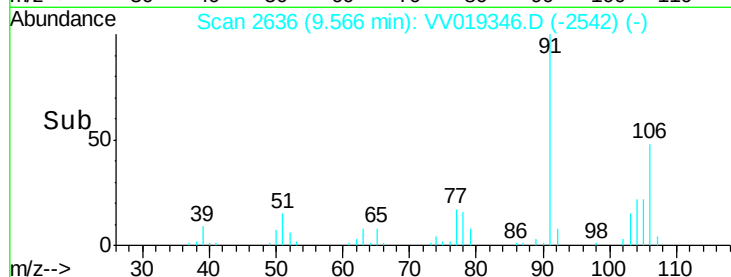
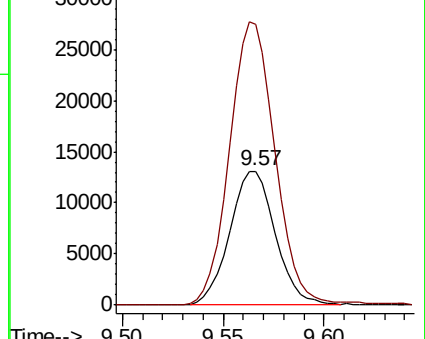
106 100

91 209.1 149.3 277.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 8.286 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV019346.D

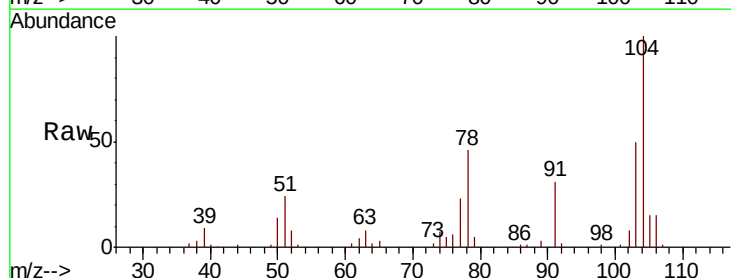
Acq: 12 Nov 2020 11:46

Tgt Ion:104 Resp: 36137

Ion Ratio Lower Upper

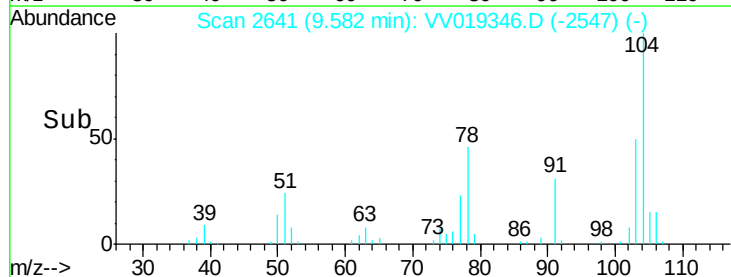
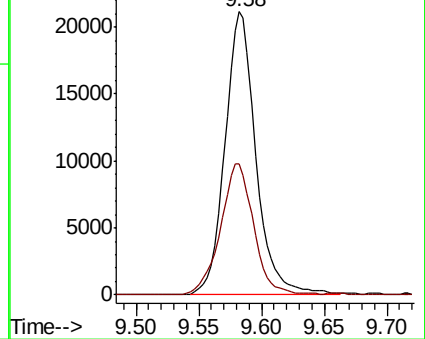
104 100

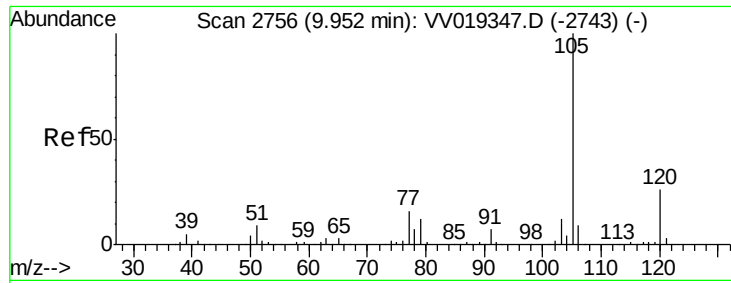
78 46.1 33.0 61.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 8.079 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD01064

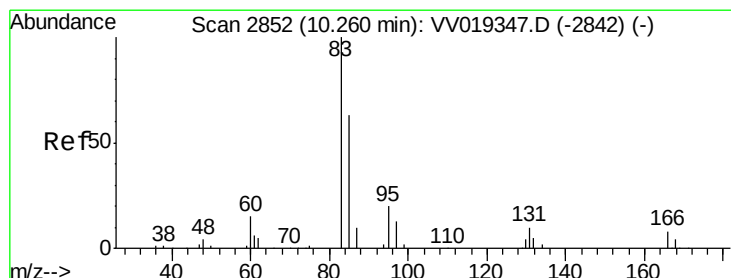
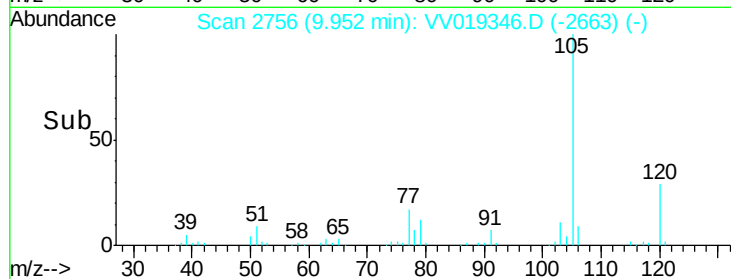
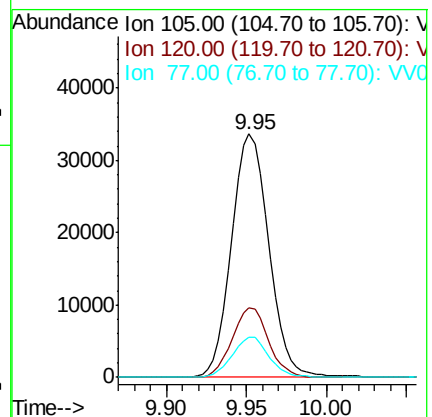
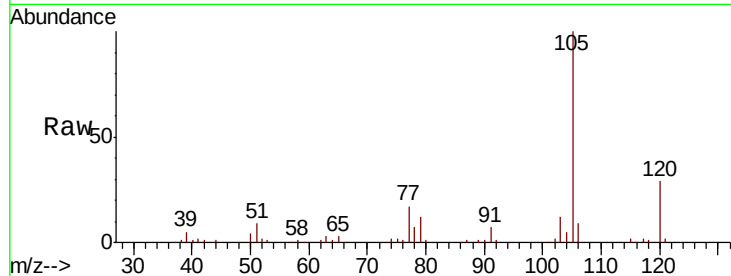
Tot Ion:105 Resp: 53361

Ion Ratio Lower Upper

105 100

120 27.8 21.3 31.9

77 16.0 12.6 18.8



#58

1,1,2,2-Tetrachloroethane

Concen: 7.618 ug/L

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

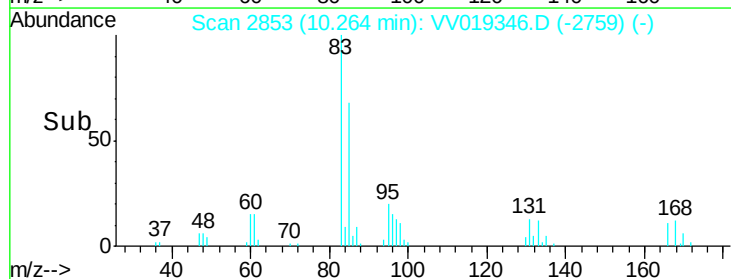
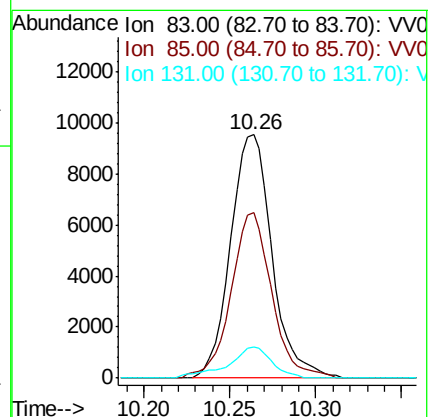
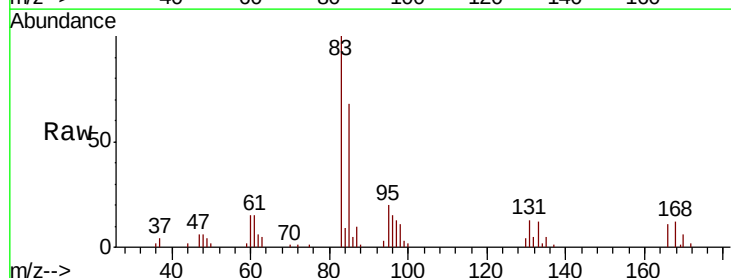
Tgt Ion: 83 Resp: 16001

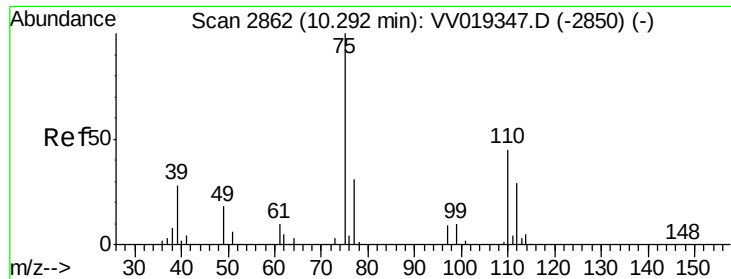
Ion Ratio Lower Upper

83 100

85 67.8 45.1 83.9

131 12.9 9.6 14.4





#59

1,2,3-Trichloropropane

Concen: 8.368 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

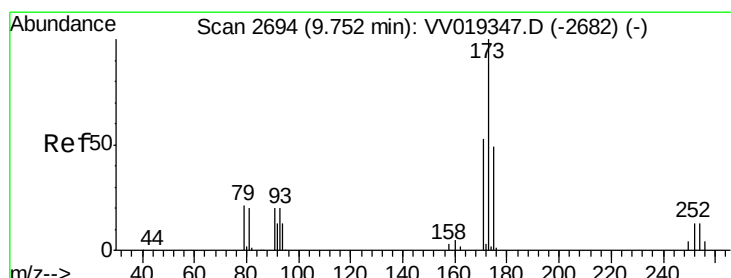
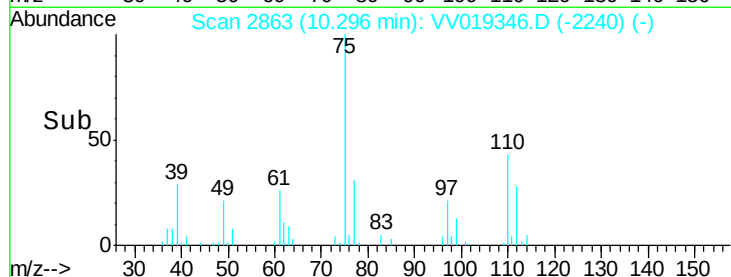
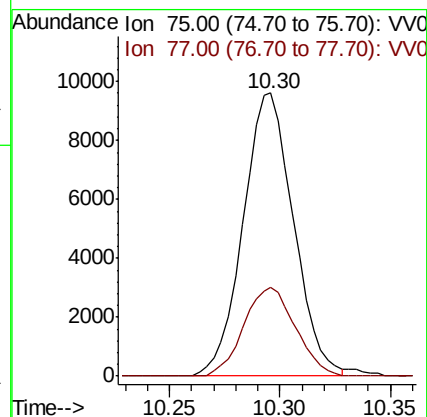
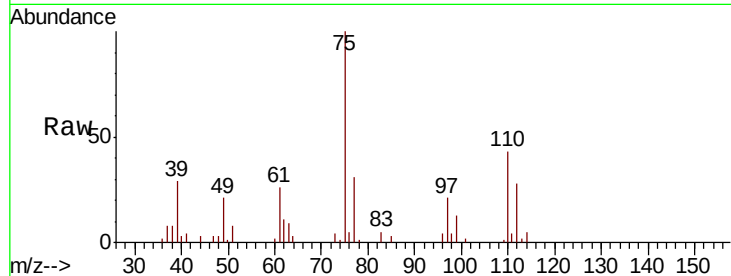
VSTD01064

Tot Ion: 75 Resp: 15220

Ion Ratio Lower Upper

75 100

77 32.1 25.0 37.4



#61

Bromoform

Concen: 8.560 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

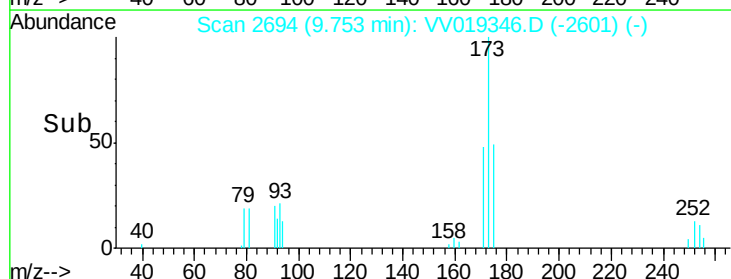
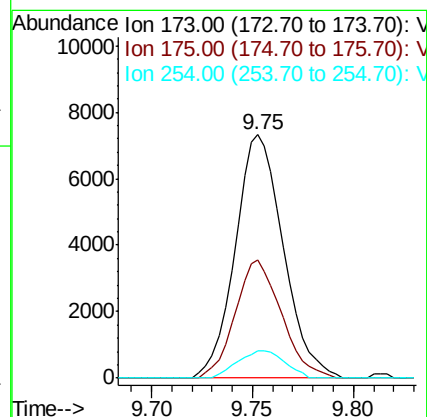
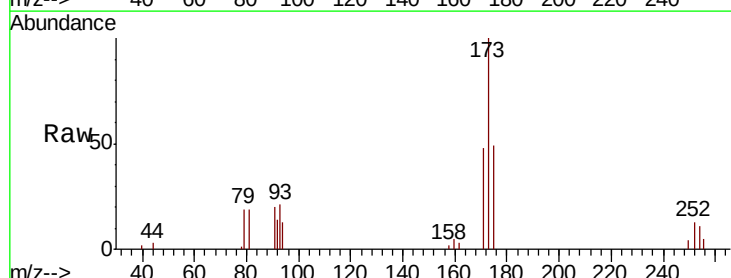
Tgt Ion: 173 Resp: 12229

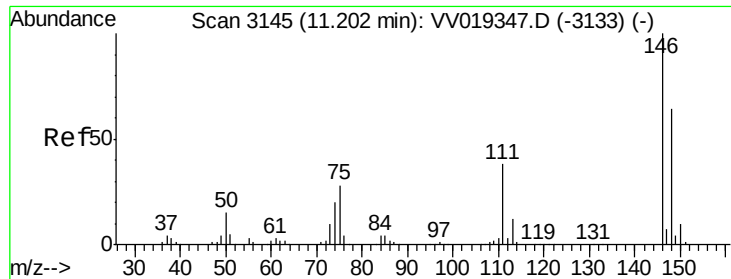
Ion Ratio Lower Upper

173 100

175 46.6 38.3 57.5

254 11.1 10.3 15.5

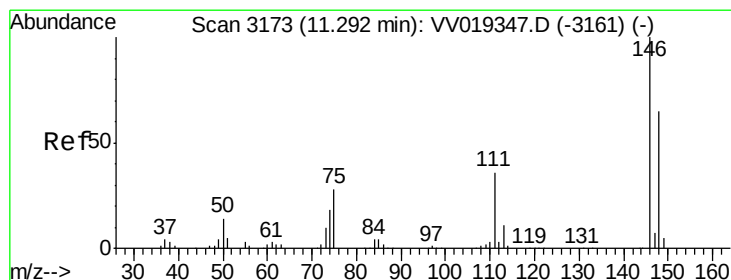
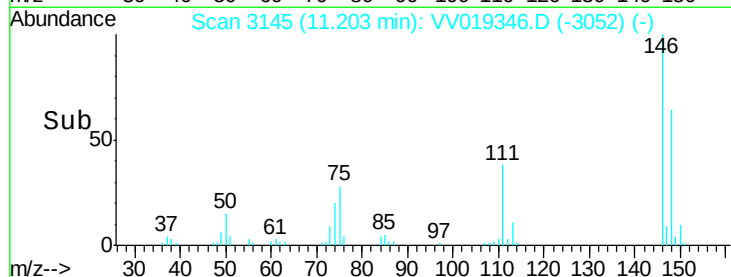
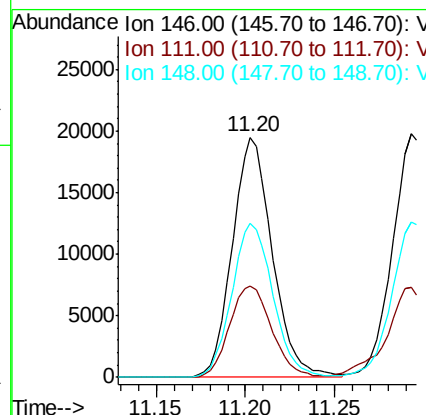
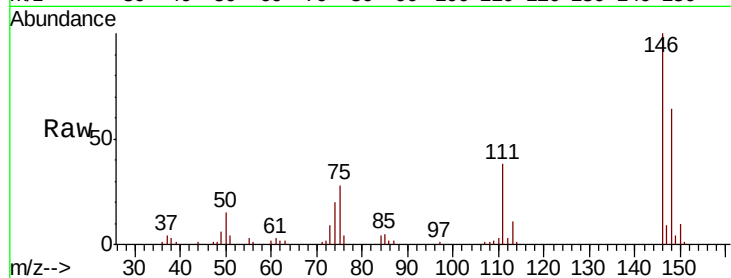




#62
 1,3-Dichlorobenzene
 Concen: 8.395 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. 0.00 min
 Lab File: VV019346.D
 Acq: 12 Nov 2020 11:46

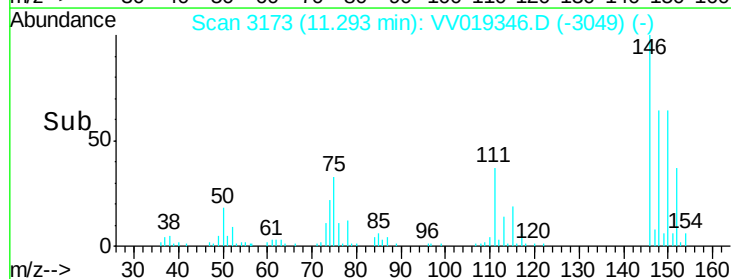
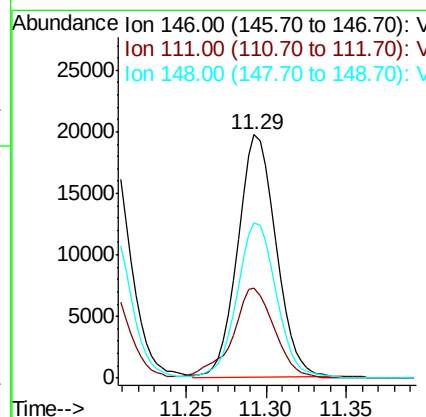
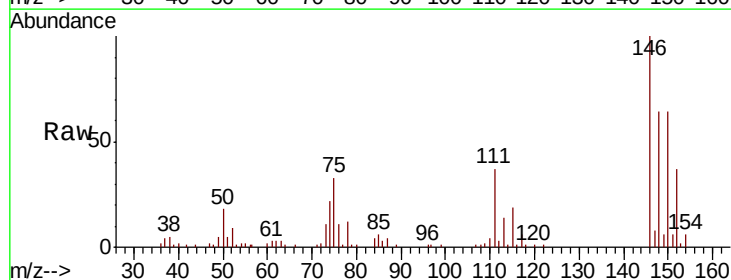
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01064

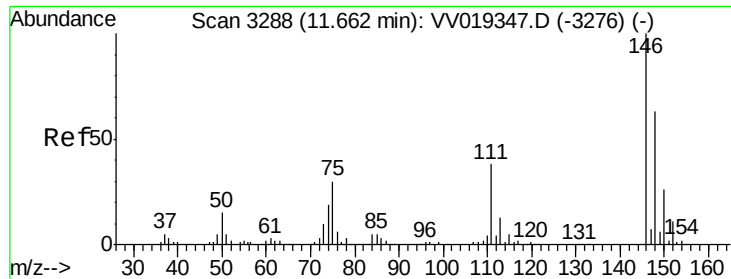
Tot Ion:146 Resp: 30339
 Ion Ratio Lower Upper
 146 100
 111 38.2 26.5 49.3
 148 64.0 44.5 82.7



#63
 1,4-Dichlorobenzene
 Concen: 8.570 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV019346.D
 Acq: 12 Nov 2020 11:46

Tgt Ion:146 Resp: 32112
 Ion Ratio Lower Upper
 146 100
 111 36.9 25.1 46.7
 148 64.0 45.4 84.4





#65

1,2-Dichlorobenzene

Concen: 8.643 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD01064

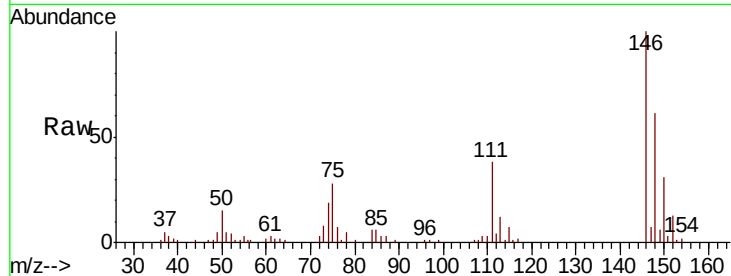
Tot Ion:146 Resp: 31074

Ion Ratio Lower Upper

146 100

111 37.9 30.6 45.8

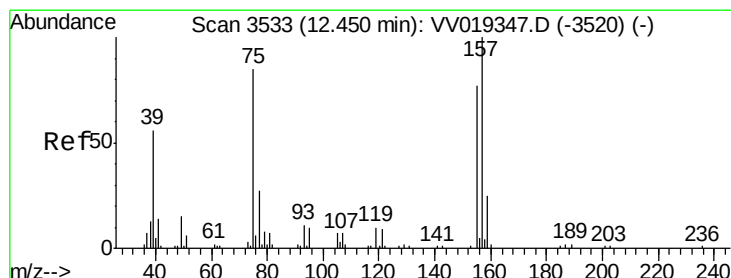
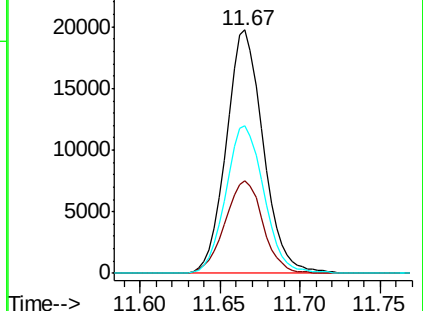
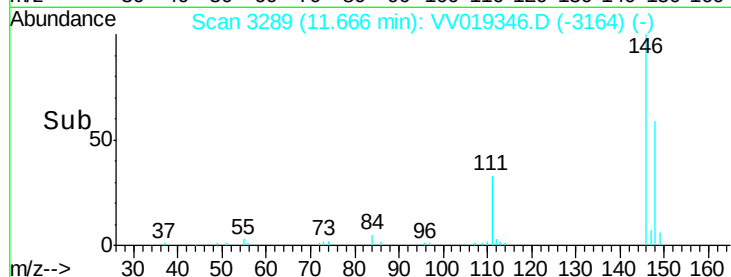
148 60.6 50.6 75.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 6.700 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

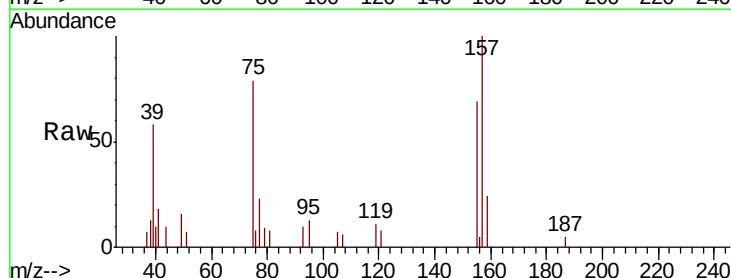
Tgt Ion: 75 Resp: 4035

Ion Ratio Lower Upper

75 100

155 87.9 72.2 108.2

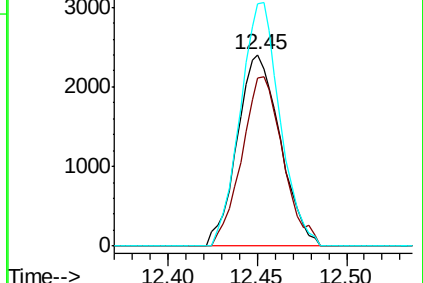
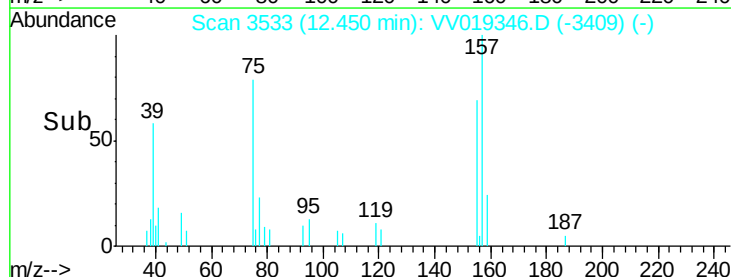
157 126.9 94.1 141.1

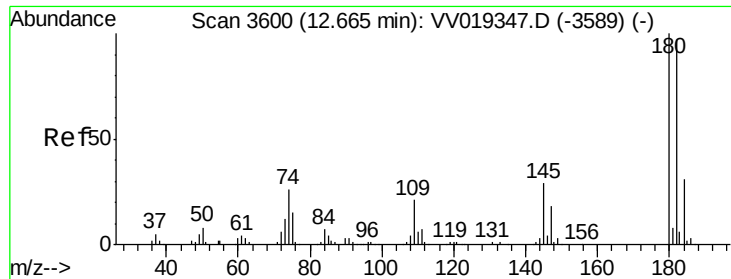


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

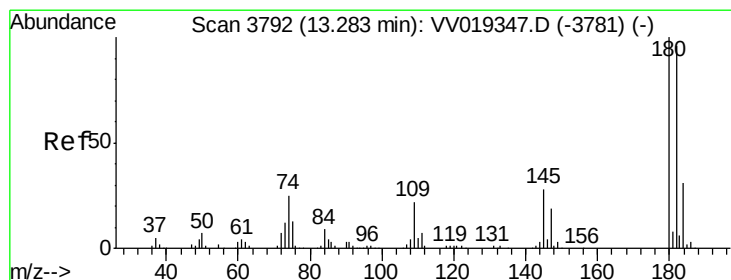
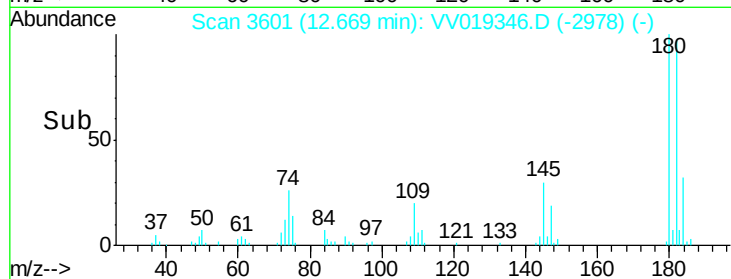
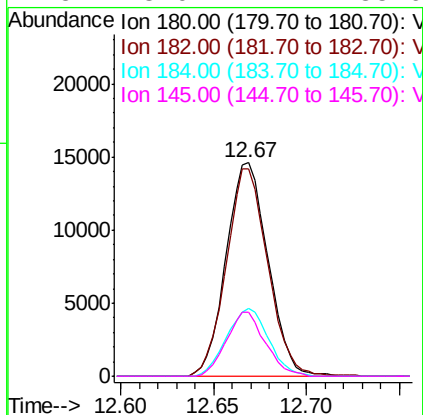
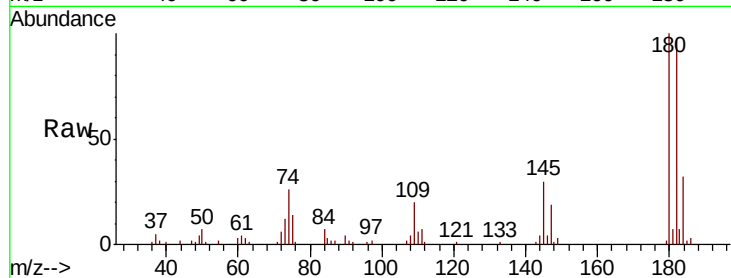




#67
 1,3,5-Trichlorobenzene
 Concen: 8.551 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VV019346.D
 Acq: 12 Nov 2020 11:46

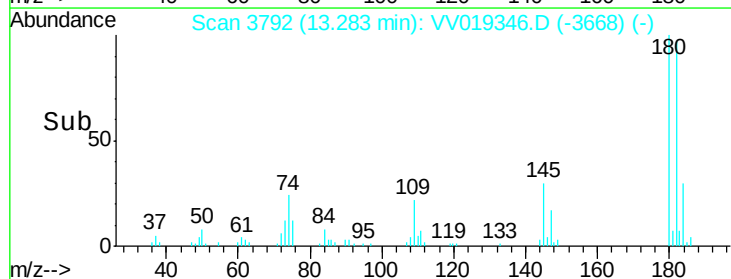
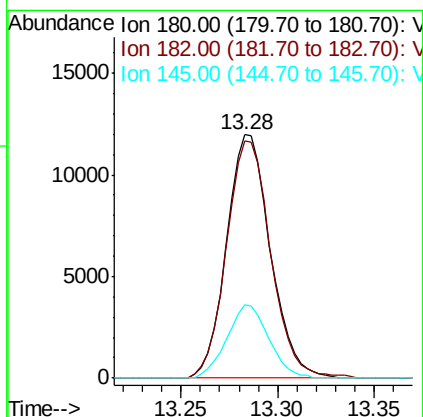
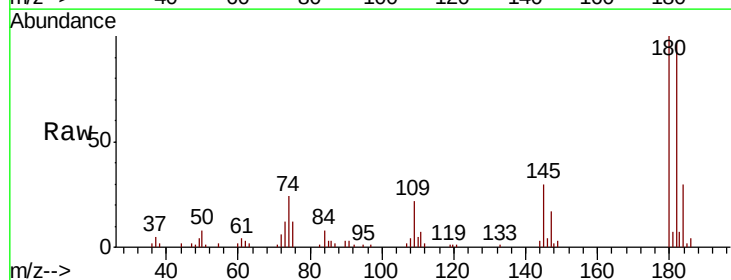
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD01064

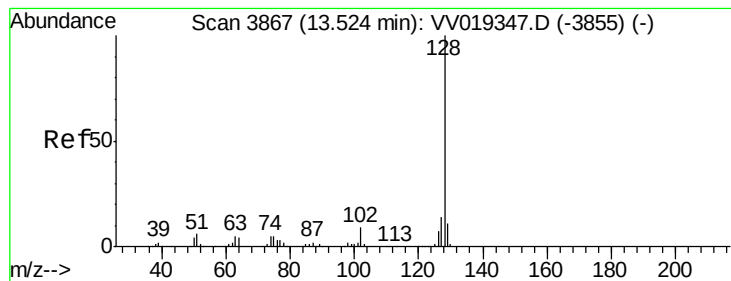
Tot Ion:180 Resp: 22840
 Ion Ratio Lower Upper
 180 100
 182 96.6 76.5 114.7
 184 31.8 24.6 36.8
 145 28.0 22.4 33.6



#68
 1,2,4-trichlorobenzene
 Concen: 7.560 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV019346.D
 Acq: 12 Nov 2020 11:46

Tgt Ion:180 Resp: 18815
 Ion Ratio Lower Upper
 180 100
 182 98.7 77.0 115.4
 145 28.6 22.5 33.7





#69

Naphthalene

Concen: 6.065 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

Instrument :

MSVOA_V

ClientSampleId :

VSTD01064

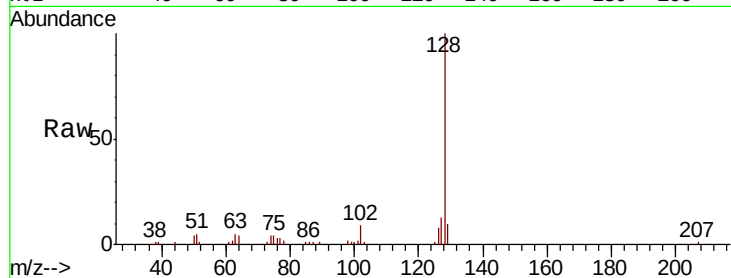
Tot Ion:128 Resp: 40866

Ion Ratio Lower Upper

128 100

127 12.8 10.9 16.3

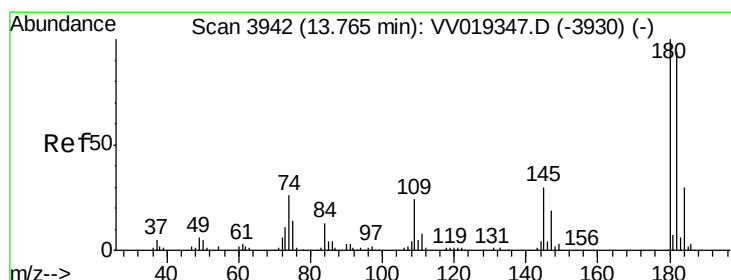
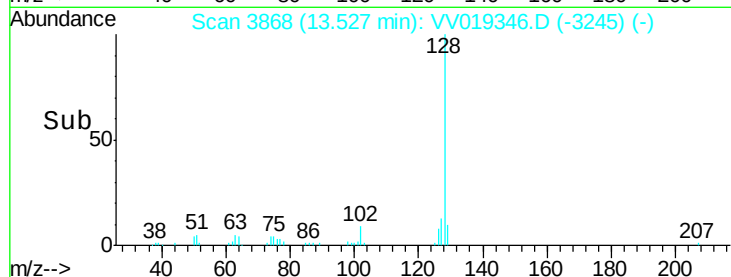
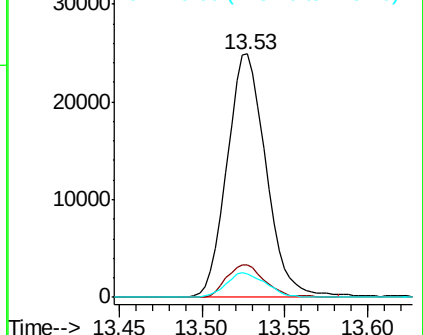
129 10.2 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 7.959 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV019346.D

Acq: 12 Nov 2020 11:46

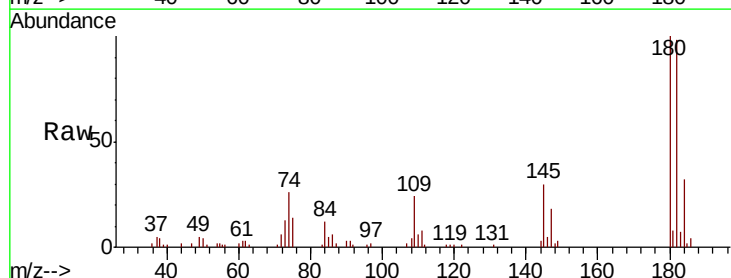
Tgt Ion:180 Resp: 19511

Ion Ratio Lower Upper

180 100

182 96.0 76.0 114.0

145 30.6 24.2 36.2



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

