

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102920\
 Data File : VV019148.D
 Acq On : 29 Oct 2020 14:52
 Operator : SY/MD
 Sample : VSTD05064
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

Quant Time: Oct 29 15:15:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM102920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 29 15:07:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	236176	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	229554	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	126793	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	94627	45.18	ug/L	0.00
7) Chloroethane-d5	1.58	69	71552	42.79	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.12	63	177957	45.34	ug/L	0.00
21) 2-Butanone-d5	3.91	46	120717	86.94	ug/L	0.00
24) Chloroform-d	4.38	84	176508	47.62	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.06	65	122043	48.77	ug/L	0.00
32) Benzene-d6	5.07	84	329190	47.68	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.09	67	96842	43.98	ug/L	0.00
41) Toluene-d8	7.34	98	316838	50.75	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.64	79	58601	50.50	ug/L	0.00
47) 2-Hexanone-d5	8.11	63	90804	94.88	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.23	84	132675	44.98	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.65	152	133887	50.29	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	104048	55.473	ug/L 100
3) Chloromethane	1.25	50	90081	41.251	ug/L 100
5) Vinyl chloride	1.32	62	94227	43.252	ug/L 100
6) Bromomethane	1.53	94	62424	48.880	ug/L 100
8) Chloroethane	1.60	64	58119	42.696	ug/L 100
9) Trichlorofluoromethane	1.77	101	158327	52.792	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	75559	48.459	ug/L 100
12) 1,1-Dichloroethene	2.13	96	74119	47.623	ug/L 100
13) Acetone	2.19	43	100173	101.865	ug/L 100
14) Carbon disulfide	2.31	76	234063	45.920	ug/L 100
15) Methyl Acetate	2.45	43	84770	43.156	ug/L 100
16) Methylene chloride	2.52	84	82464	45.834	ug/L 100
17) trans-1,2-Dichloroethene	2.78	96	79330	48.186	ug/L 100
18) Methyl tert-butyl Ether	2.78	73	264226	49.351	ug/L 100
19) 1,1-Dichloroethane	3.21	63	148717	45.327	ug/L 100
20) cis-1,2-Dichloroethene	3.94	96	86401	48.818	ug/L 100
22) 2-Butanone	3.99	43	123142	94.470	ug/L 100
23) Bromochloromethane	4.28	128	45895	50.649	ug/L 100
25) Chloroform	4.40	83	159102	48.435	ug/L 100
27) 1,2-Dichloroethane	5.16	62	135365	49.576	ug/L 100
29) Cyclohexane	4.70	56	128343	48.129	ug/L 100
30) 1,1,1-Trichloroethane	4.63	97	153322	53.143	ug/L 100
31) Carbon tetrachloride	4.86	117	136018	53.722	ug/L 100
33) Benzene	5.13	78	326048	47.420	ug/L 100
34) Trichloroethene	5.94	95	87900	49.710	ug/L 100
35) Methylcyclohexane	6.15	83	125383	51.961	ug/L 100
37) 1,2-Dichloropropane	6.20	63	80640	43.197	ug/L 100
38) Bromodichloromethane	6.53	83	119302	49.098	ug/L 100
39) cis-1,3-Dichloropropene	7.05	75	137329	48.784	ug/L 100
40) 4-Methyl-2-pentanone	7.24	43	232307	92.473	ug/L 100

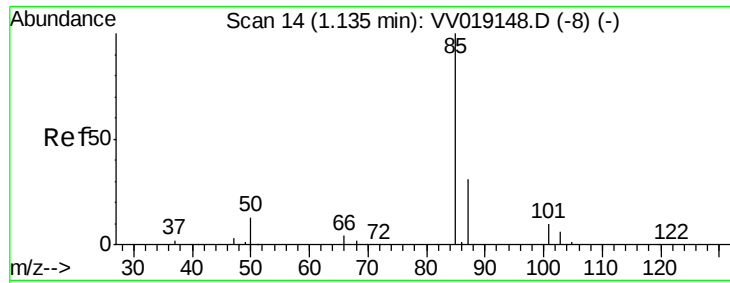
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 Quant Title : VOC Analysis
 QLast Update : Thu Oct 29 15:07:11 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	363436	50.757	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	141446	50.402	ug/L	100
45) 1,1,2-Trichloroethane	7.86	97	80912	47.901	ug/L	100
46) Tetrachloroethene	8.00	164	76037	54.889	ug/L	100
48) 2-Hexanone	8.16	43	180861	93.294	ug/L	100
49) Dibromochloromethane	8.27	129	97196	51.931	ug/L	100
50) 1,2-Dibromoethane	8.37	107	87614	49.711	ug/L	100
51) Chlorobenzene	8.90	112	233679	50.636	ug/L	100
52) Ethylbenzene	9.03	91	396794	51.219	ug/L	100
53) m,p-Xylene	9.16	106	152468	53.375	ug/L	100
54) o-xylene	9.56	106	146843	53.402	ug/L	100
55) Styrene	9.58	104	263946	54.143	ug/L	100
56) Isopropylbenzene	9.95	105	396951	54.626	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.26	83	122742	44.934	ug/L	100
59) 1,2,3-Trichloropropane	10.29	75	104482	47.147	ug/L	100
61) Bromoform	9.75	173	75888	52.809	ug/L	100
62) 1,3-Dichlorobenzene	11.20	146	197397	51.836	ug/L	100
63) 1,4-Dichlorobenzene	11.29	146	203281	51.071	ug/L	100
65) 1,2-Dichlorobenzene	11.67	146	194848	50.788	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.45	75	32637	48.874	ug/L	100
67) 1,3,5-Trichlorobenzene	12.67	180	146298	55.074	ug/L	100
68) 1,2,4-trichlorobenzene	13.28	180	138750	55.483	ug/L	100
69) Naphthalene	13.52	128	408198	54.298	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	137150	54.566	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 55.473 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

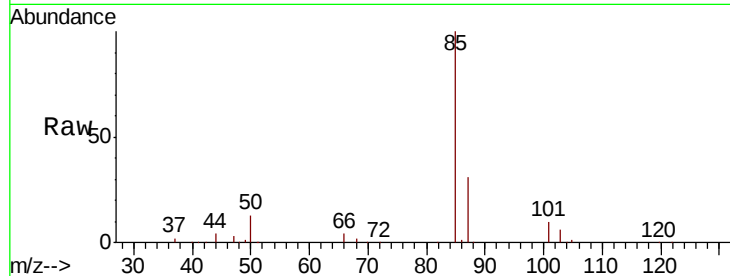
VSTD05064

Tot Ion: 85 Resp: 104048

Ion Ratio Lower Upper

85 100

87 31.6 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VV019148.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV019148.D (-8) (-)

1.14

120000

100000

80000

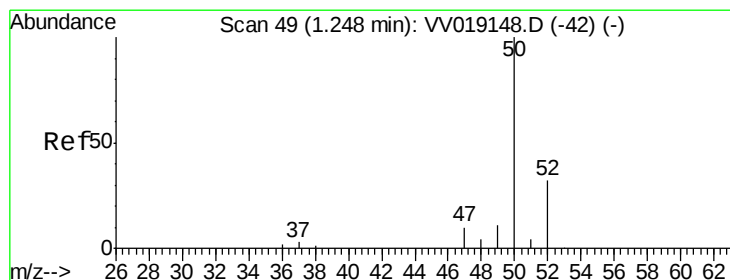
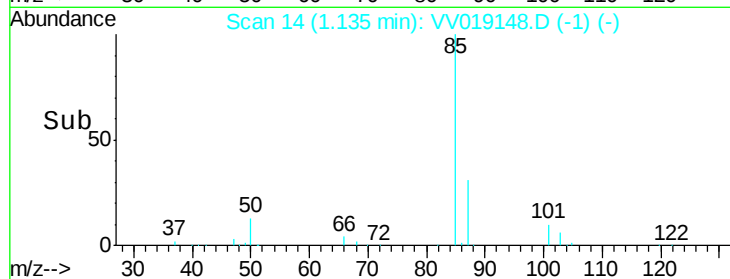
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 41.251 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV019148.D

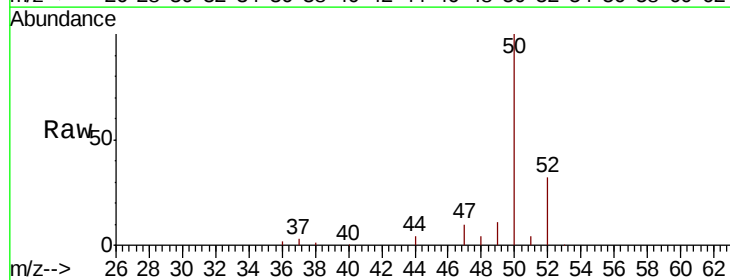
Acq: 29 Oct 2020 14:52

Tgt Ion: 50 Resp: 90081

Ion Ratio Lower Upper

50 100

52 31.6 22.1 41.1



Abundance Ion 50.00 (49.70 to 50.70): VV019148.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV019148.D (-42) (-)

1.25

100000

80000

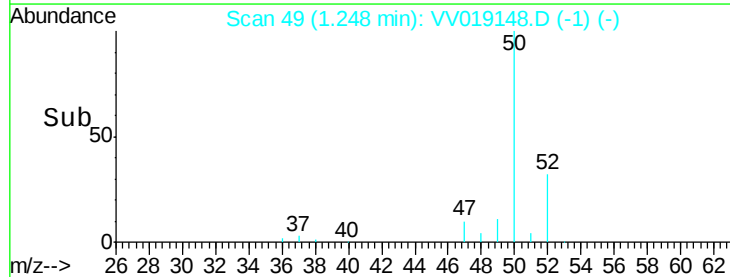
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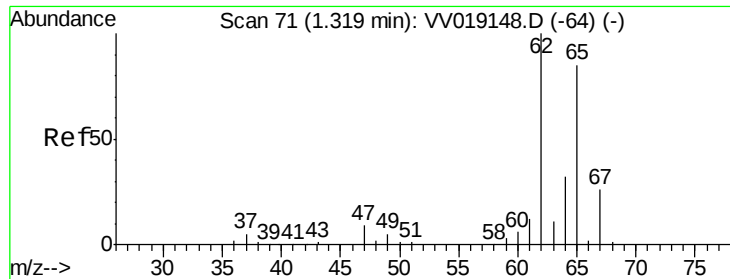
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Time-->

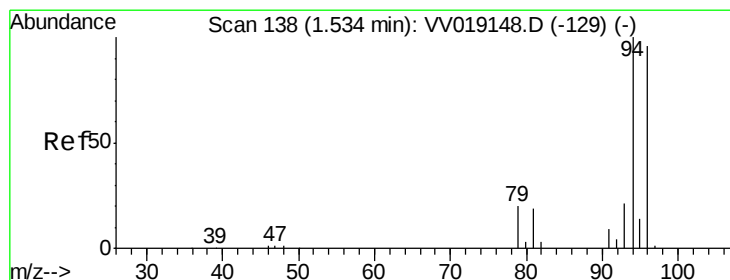
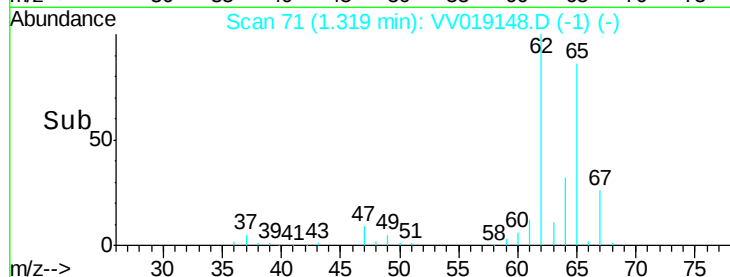
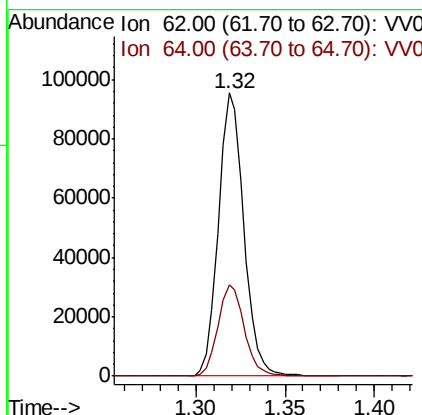
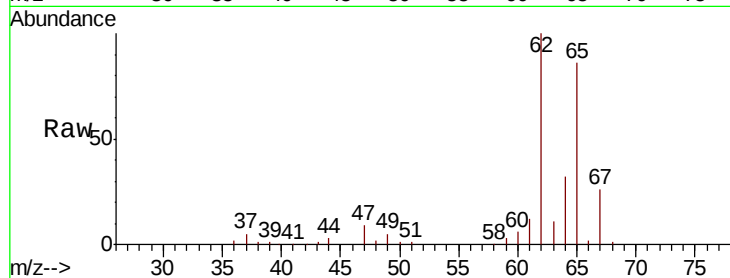




#5
 Vinyl chloride
 Concen: 43.252 ug/L
 RT: 1.32 min Scan# 71
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

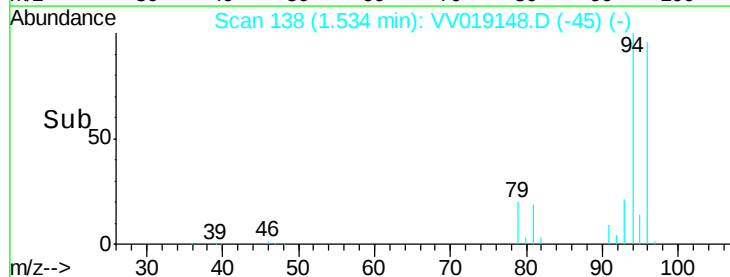
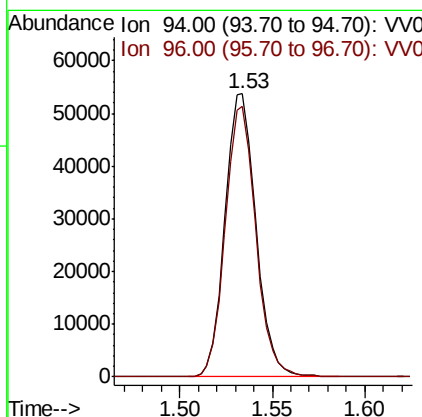
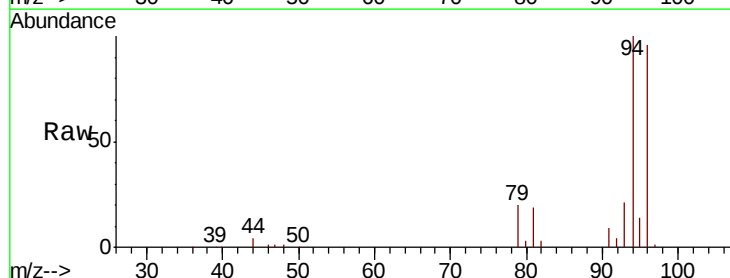
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

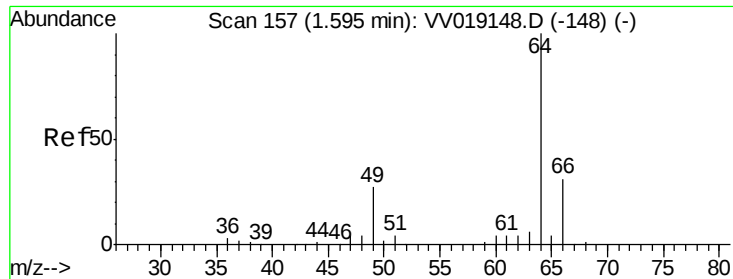
Tot Ion: 62 Resp: 94227
 Ion Ratio Lower Upper
 62 100
 64 32.5 22.7 42.3



#6
 Bromomethane
 Concen: 48.880 ug/L
 RT: 1.53 min Scan# 138
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

Tgt Ion: 94 Resp: 62424
 Ion Ratio Lower Upper
 94 100
 96 95.7 67.0 124.4

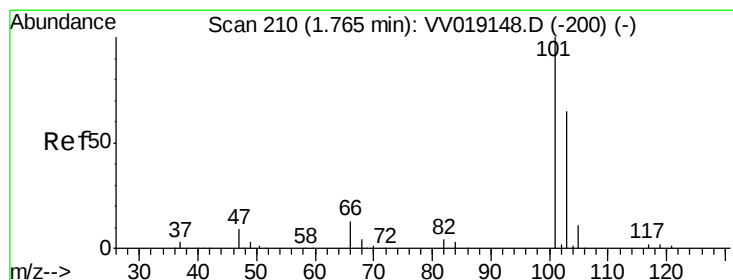
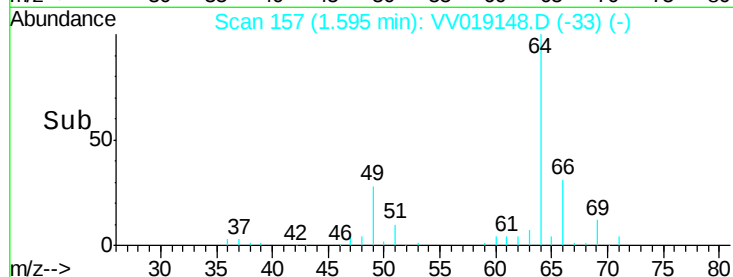
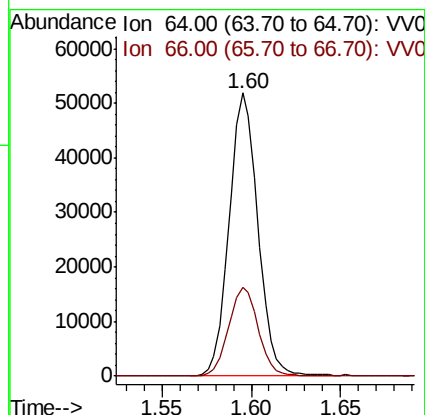
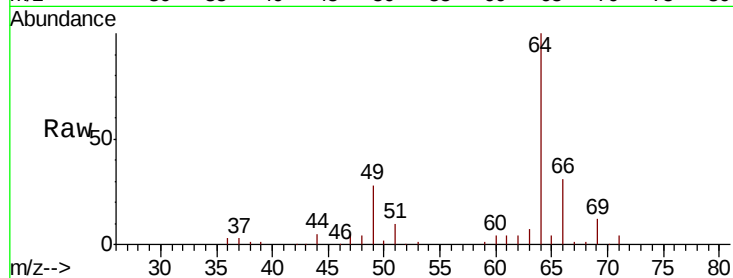




#8
Chloroethane
Concen: 42.696 ug/L
RT: 1.60 min Scan# 157
Delta R.T. 0.00 min
Lab File: VV019148.D
Acq: 29 Oct 2020 14:52

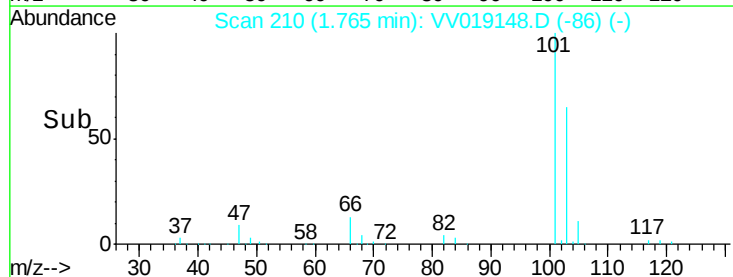
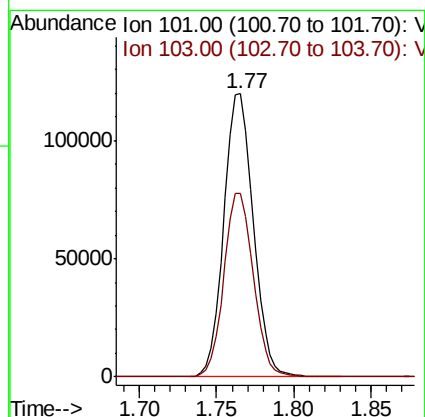
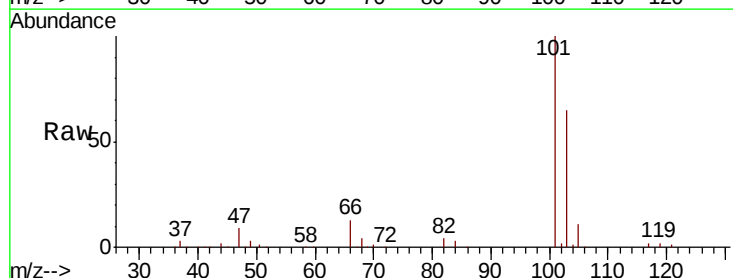
Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

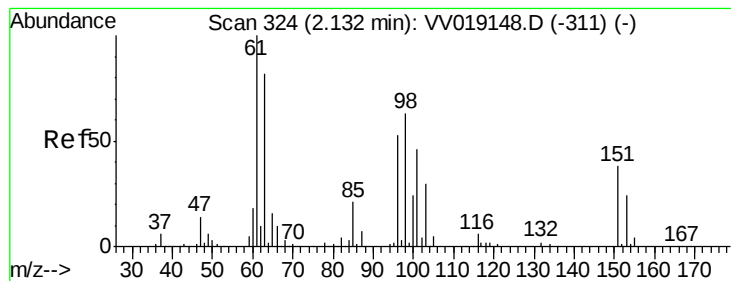
Tot Ion: 64 Resp: 58119
Ion Ratio Lower Upper
64 100
66 31.4 22.0 40.8



#9
Trichlorofluoromethane
Concen: 52.792 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV019148.D
Acq: 29 Oct 2020 14:52

Tgt Ion: 101 Resp: 158327
Ion Ratio Lower Upper
101 100
103 64.9 51.9 77.9





#10

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

Concen: 48.459 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

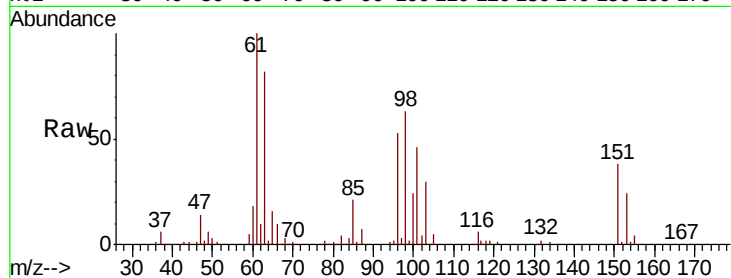
Tot Ion:101 Resp: 75559

Ion Ratio Lower Upper

101 100

85 45.1 36.1 54.1

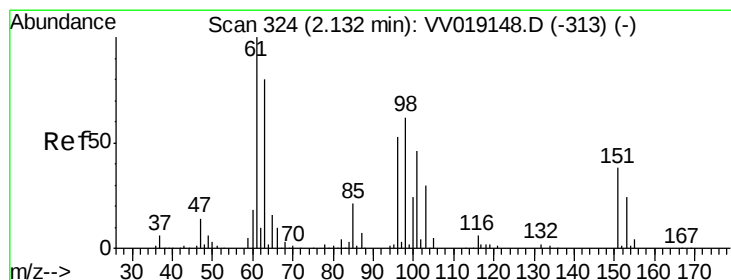
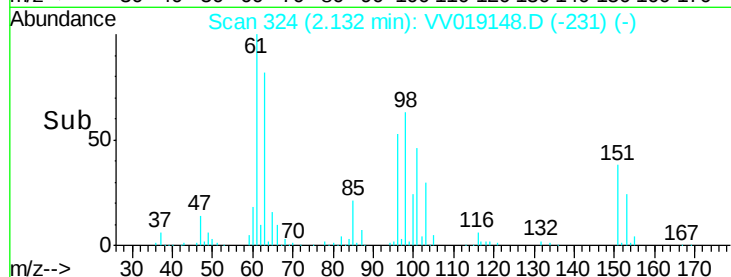
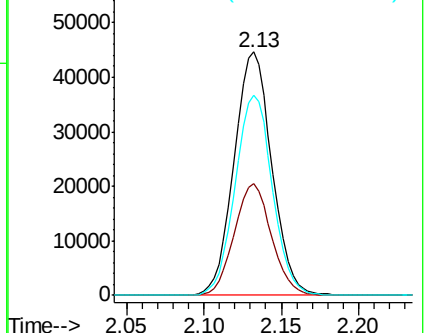
151 81.2 65.0 97.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 47.623 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

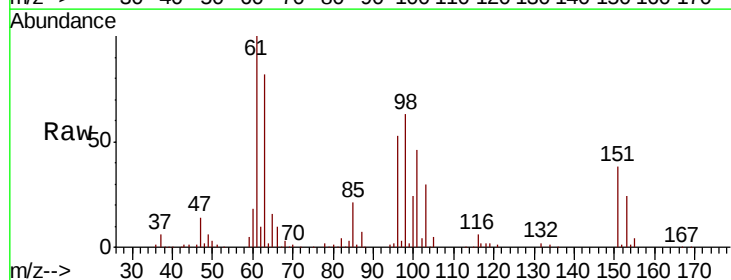
Tgt Ion: 96 Resp: 74119

Ion Ratio Lower Upper

96 100

61 189.4 132.6 246.2

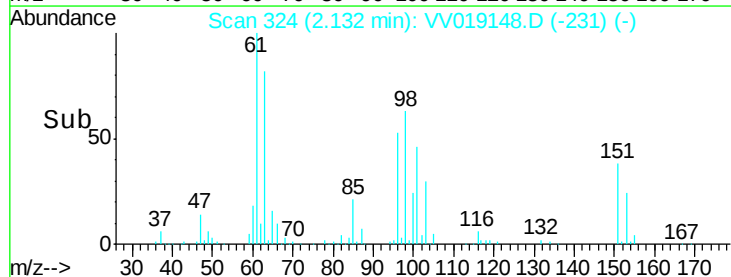
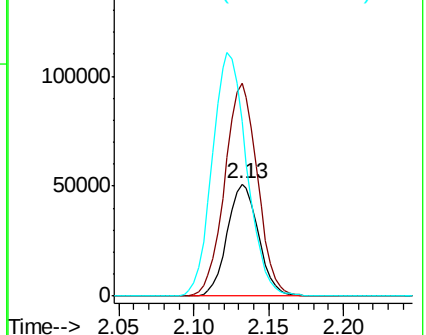
63 154.9 108.4 201.4

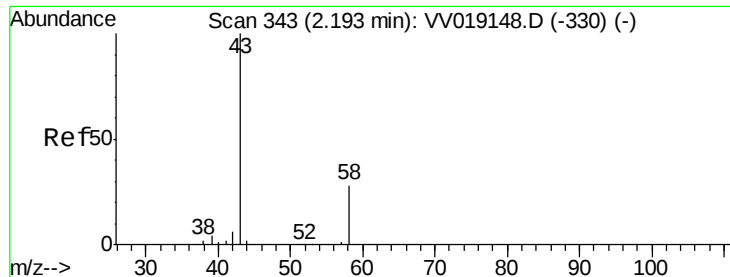


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 101.865 ug/L

RT: 2.19 min Scan# 343

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

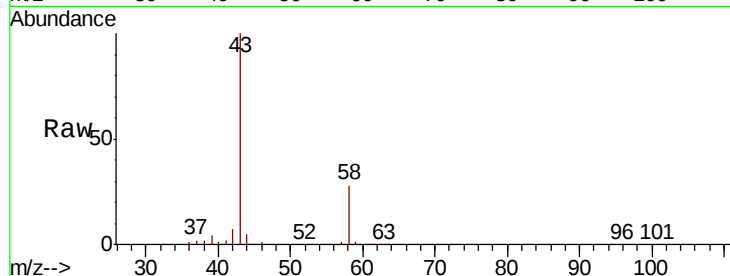
VSTD05064

Tot Ion: 43 Resp: 100173

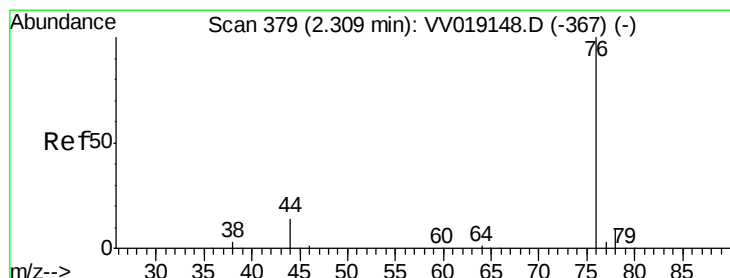
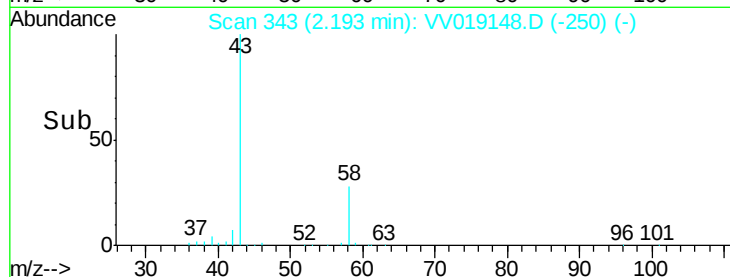
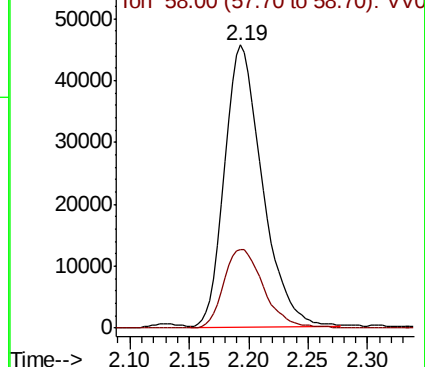
Ion Ratio Lower Upper

43 100

58 29.7 0.0 59.4



Abundance Ion 43.00 (42.70 to 43.70): VV019148.D (-330) (-)



#14

Carbon disulfide

Concen: 45.920 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV019148.D

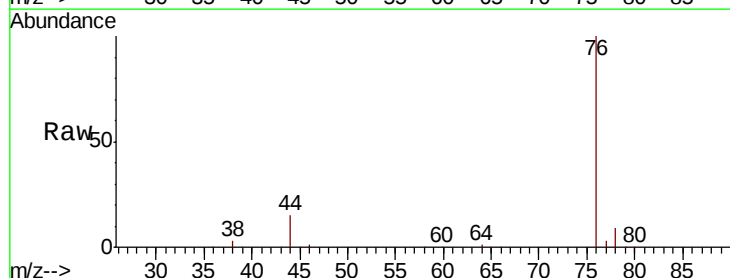
Acq: 29 Oct 2020 14:52

Tgt Ion: 76 Resp: 234063

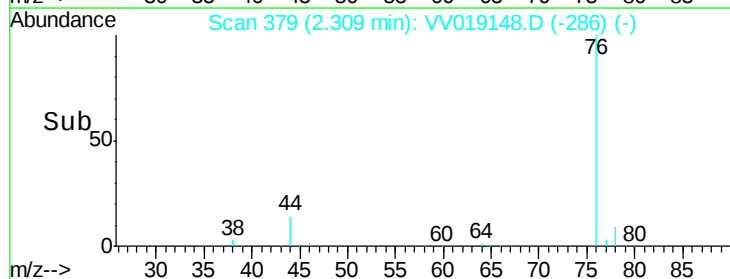
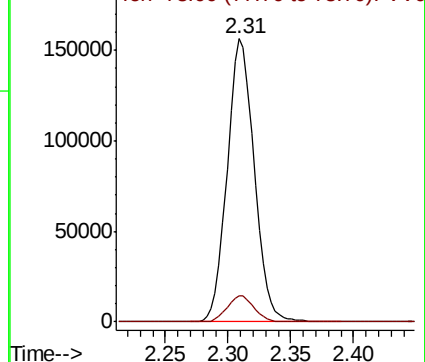
Ion Ratio Lower Upper

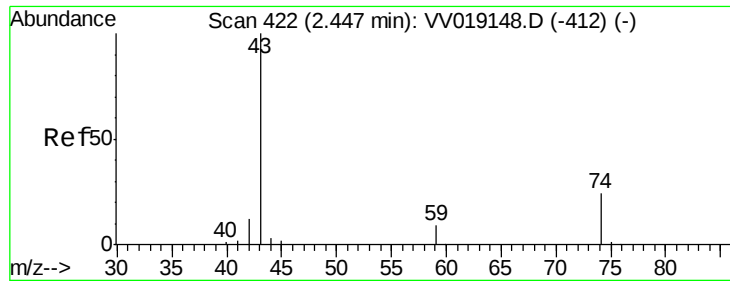
76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019148.D (-367) (-)

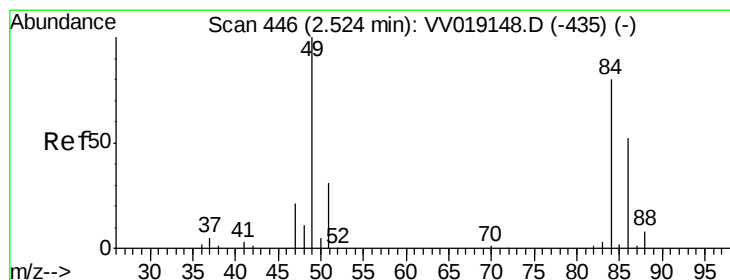
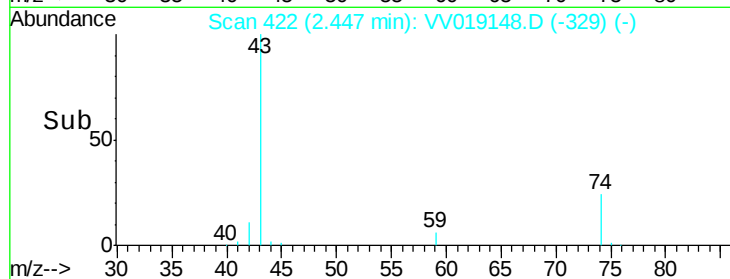
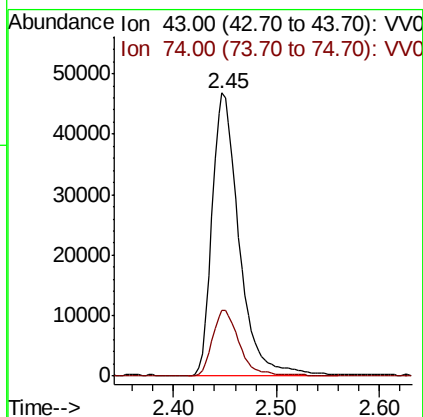
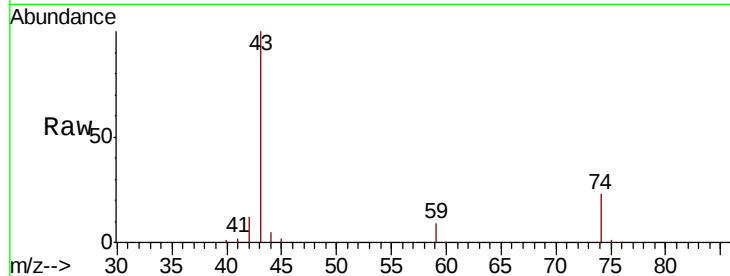




#15
Methvl Acetate
Concen: 43.156 ug/L
RT: 2.45 min Scan# 422
Delta R.T. 0.00 min
Lab File: VV019148.D
Acq: 29 Oct 2020 14:52

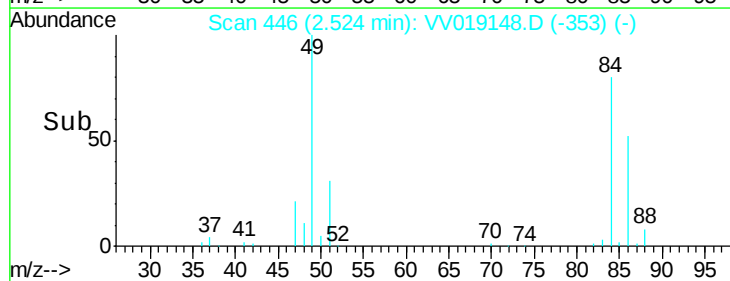
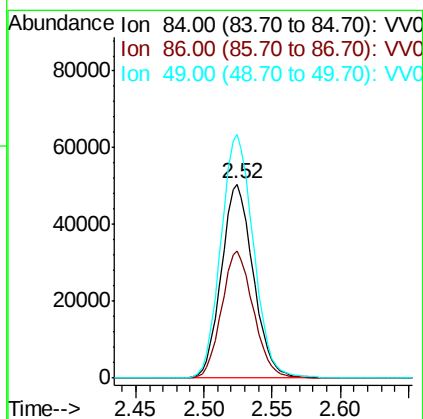
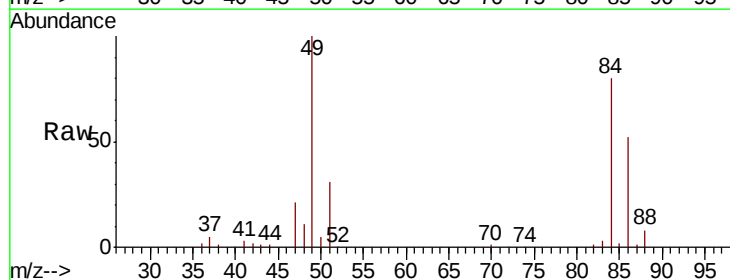
Instrument :
MSVOA_V
ClientSampled :
VSTD05064

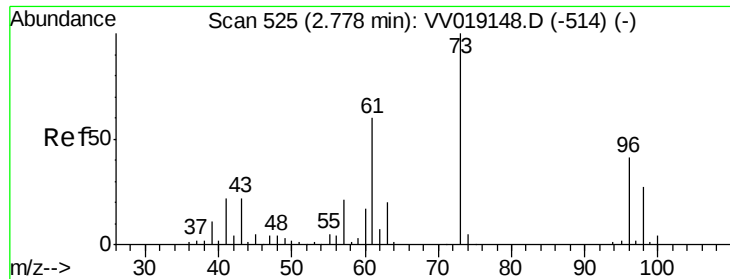
Tot Ion: 43 Resp: 84770
Ion Ratio Lower Upper
43 100
74 23.0 18.4 27.6



#16
Methylene chloride
Concen: 45.834 ug/L
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV019148.D
Acq: 29 Oct 2020 14:52

Tgt Ion: 84 Resp: 82464
Ion Ratio Lower Upper
84 100
86 65.7 46.0 85.4
49 125.5 87.8 163.2





#17

trans-1,2-Dichloroethene

Concen: 48.186 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

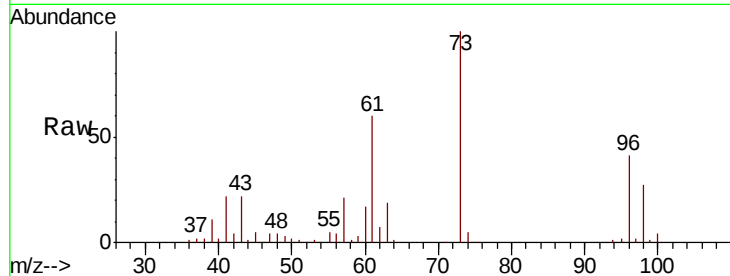
Tot Ion: 96 Resp: 79330

Ion Ratio Lower Upper

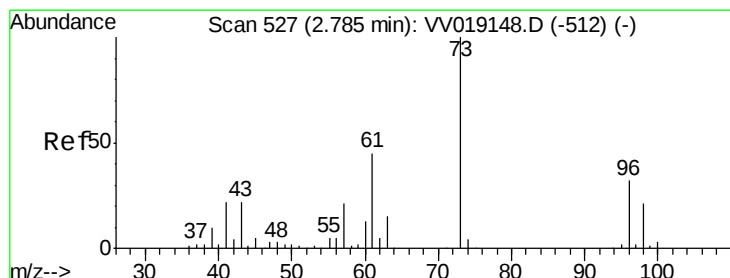
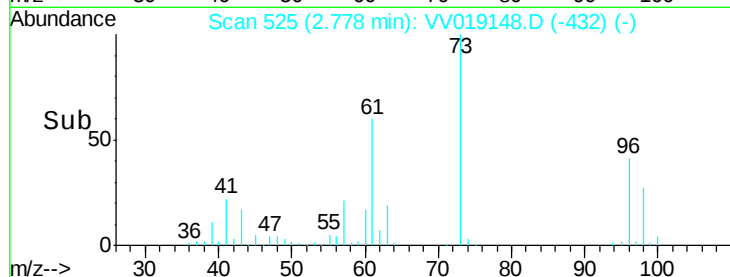
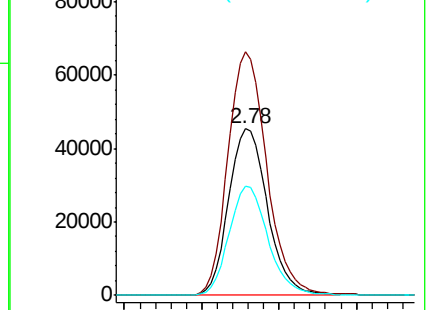
96 100

61 146.3 102.4 190.2

98 65.6 45.9 85.3



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



#18

Methyl tert-butyl Ether

Concen: 49.351 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

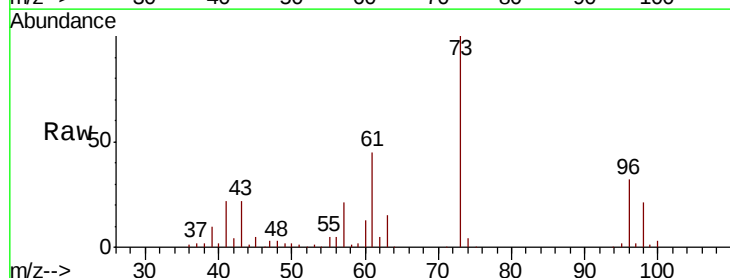
Tgt Ion: 73 Resp: 264226

Ion Ratio Lower Upper

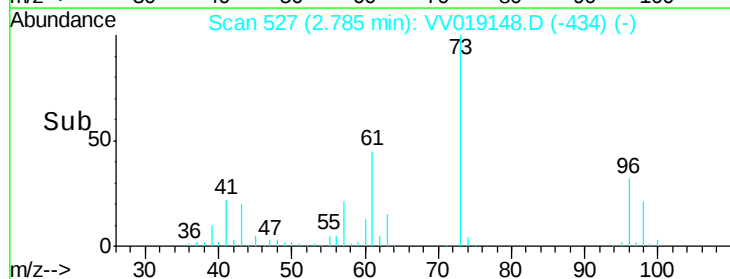
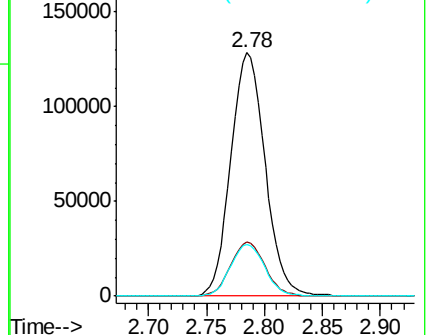
73 100

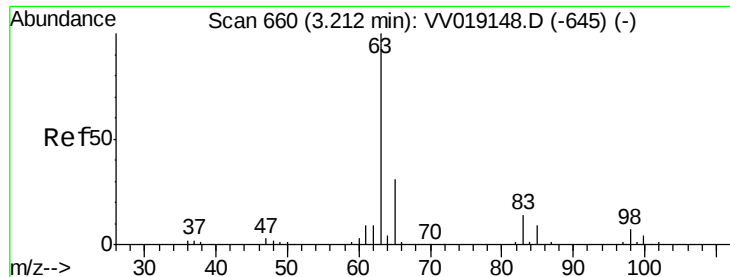
43 22.4 17.9 26.9

57 21.4 17.1 25.7



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: 45.327 ug/L

RT: 3.21 min Scan# 660

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

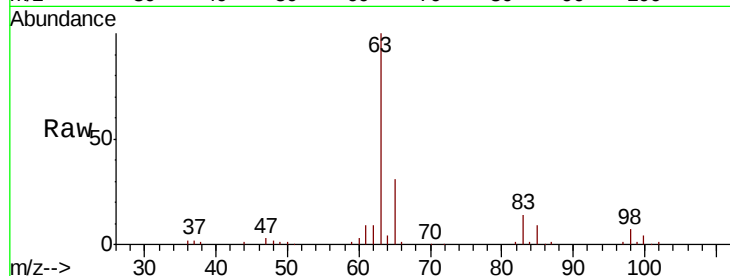
Tot Ion: 63 Resp: 148717

Ion Ratio Lower Upper

63 100

65 31.4 22.0 40.8

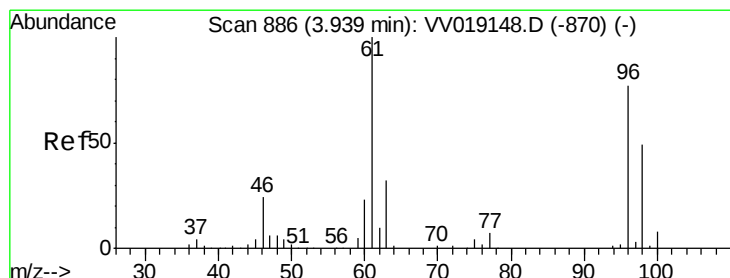
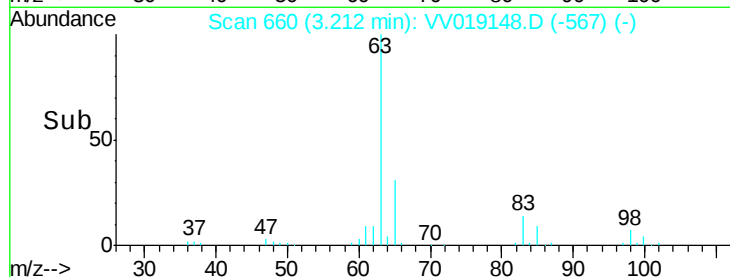
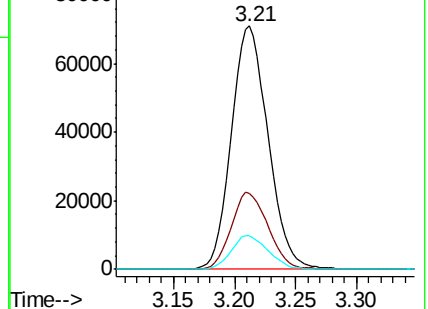
83 13.7 9.6 17.8



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: 48.818 ug/L

RT: 3.94 min Scan# 886

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

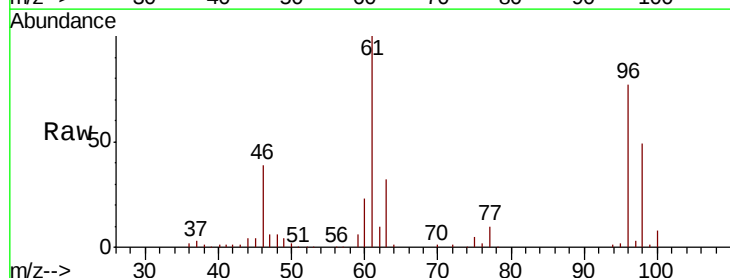
Tgt Ion: 96 Resp: 86401

Ion Ratio Lower Upper

96 100

61 129.6 90.7 168.5

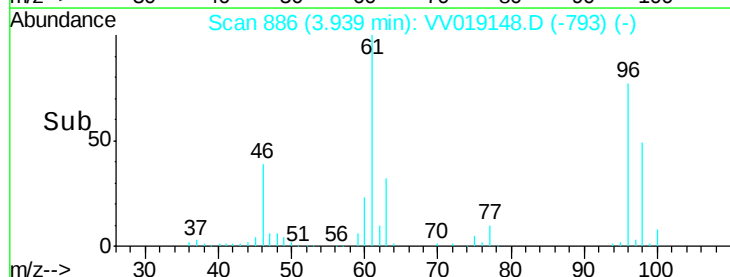
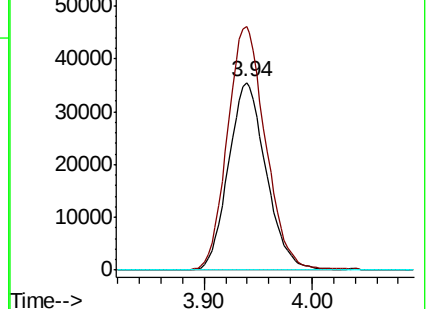
68 0.0 0.0 0.0

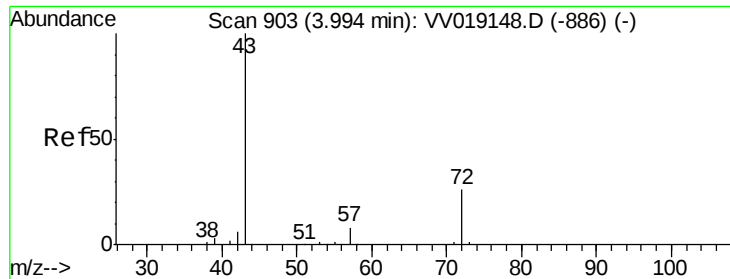


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 94.470 ug/L

RT: 3.99 min Scan# 903

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

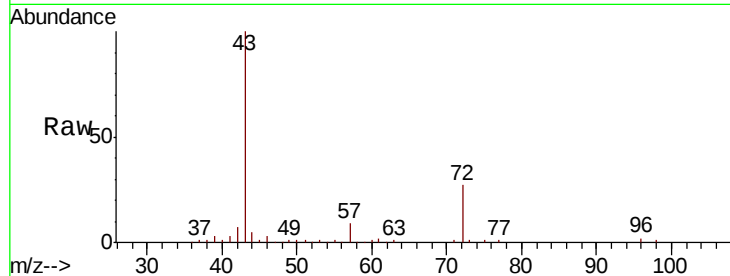
Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

Tot Ion: 43 Resp: 123142

Ion Ratio Lower Upper

43 100

72 23.9 11.9 35.9



Abundance Ion 43.00 (42.70 to 43.70): VV019148.D (-886) (-)

Ion 72.00 (71.70 to 72.70): VV019148.D (-886) (-)

3.99

40000

30000

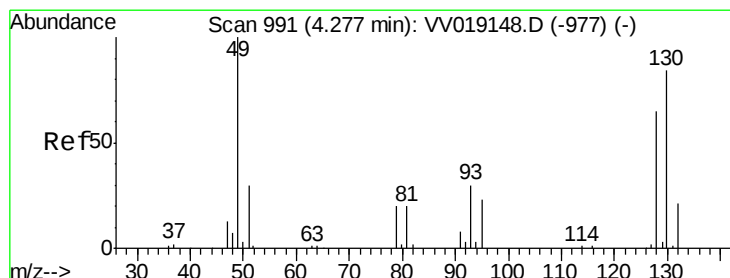
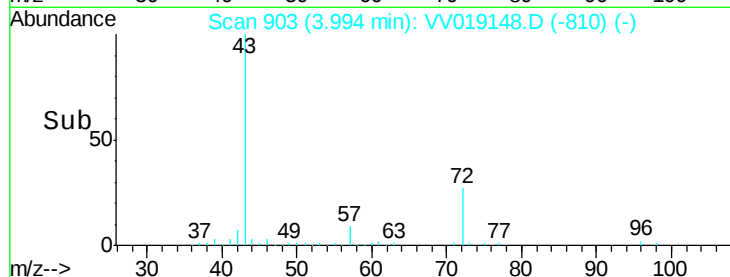
20000

10000

0

Time-->

3.90 4.00 4.10



#23

Bromochloromethane

Concen: 50.649 ug/L

RT: 4.28 min Scan# 991

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Tgt Ion:128 Resp: 45895

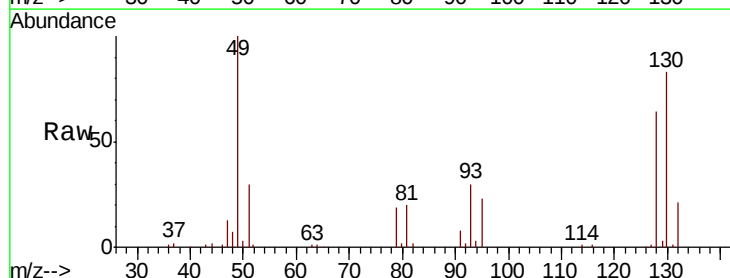
Ion Ratio Lower Upper

128 100

49 155.0 108.5 201.5

130 129.1 90.4 167.8

51 46.1 36.9 55.3



Abundance Ion 128.00 (127.70 to 128.70): VV019148.D (-977) (-)

Ion 49.00 (48.70 to 49.70): VV019148.D (-977) (-)

Ion 130.00 (129.70 to 130.70): VV019148.D (-977) (-)

Ion 51.00 (50.70 to 51.70): VV019148.D (-977) (-)

40000

30000

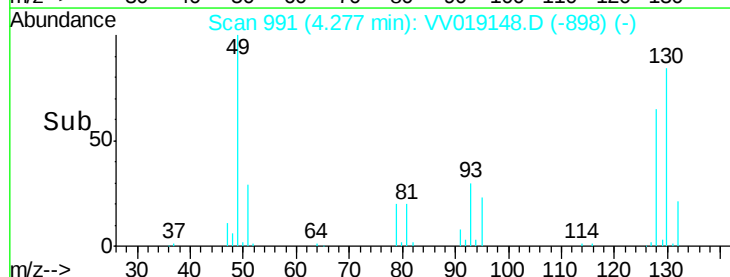
20000

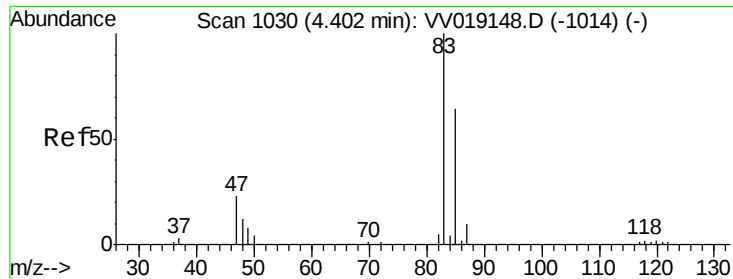
10000

0

Time-->

4.20 4.25 4.30 4.35

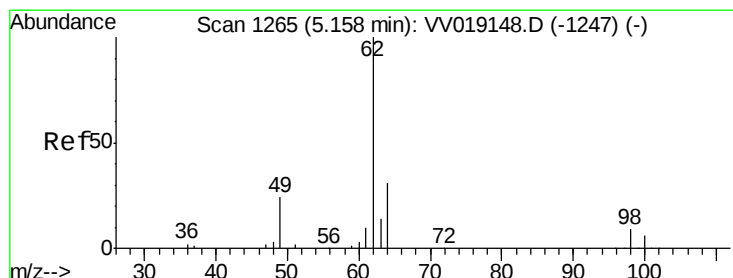
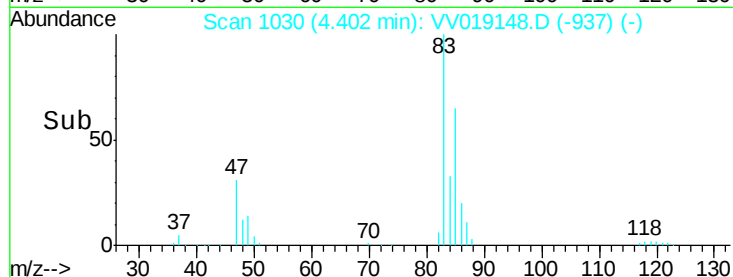
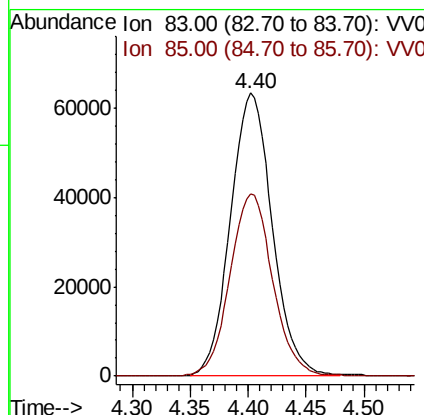
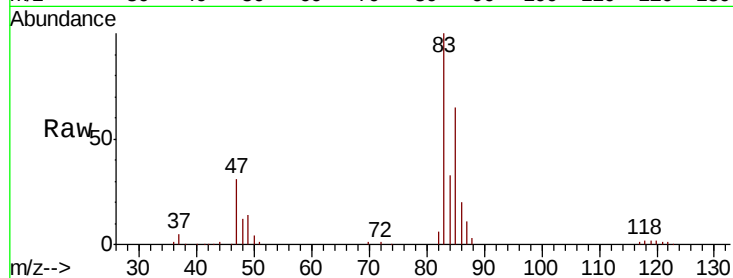




#25
Chloroform
Concen: 48.435 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV019148.D
Acq: 29 Oct 2020 14:52

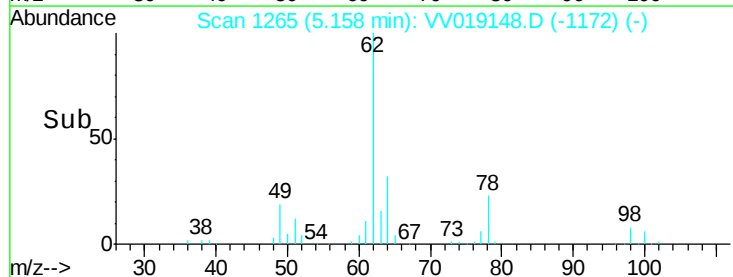
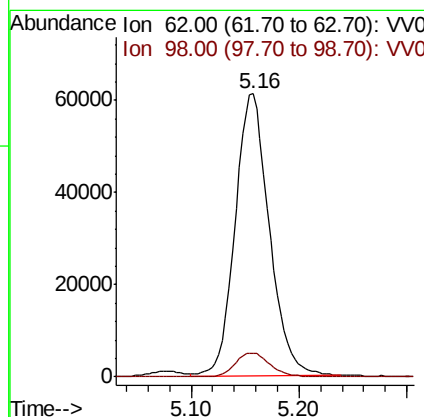
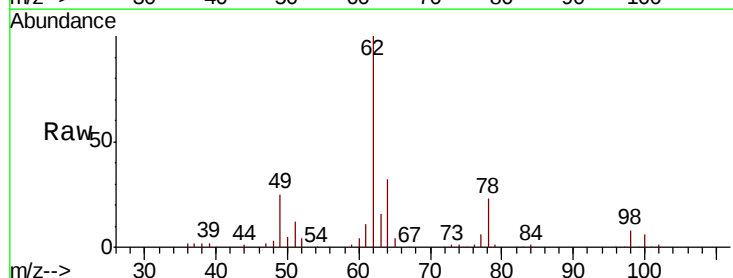
Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

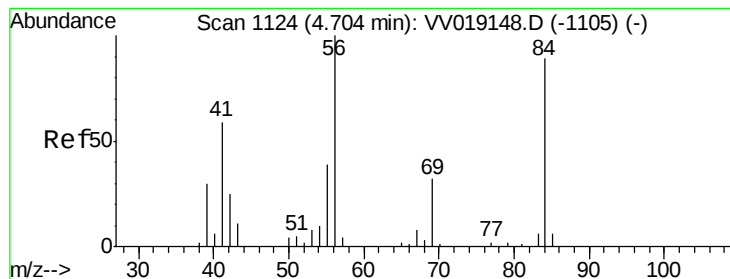
Tot Ion: 83 Resp: 159102
Ion Ratio Lower Upper
83 100
85 64.5 45.1 83.9



#27
1,2-Dichloroethane
Concen: 49.576 ug/L
RT: 5.16 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VV019148.D
Acq: 29 Oct 2020 14:52

Tgt Ion: 62 Resp: 135365
Ion Ratio Lower Upper
62 100
98 8.5 6.8 10.2





#29

Cyclohexane

Concen: 48.129 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :
MSVOA_V
ClientSampleId :
VSTD05064

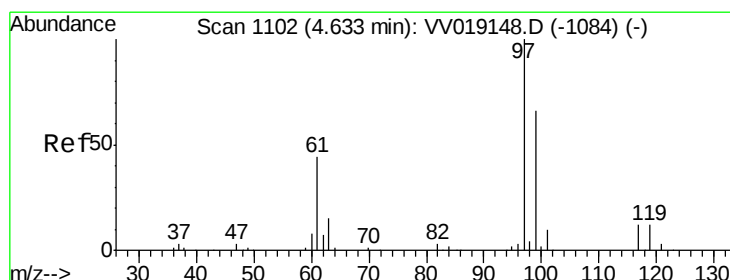
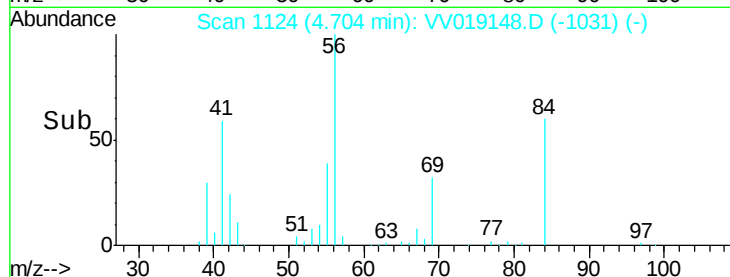
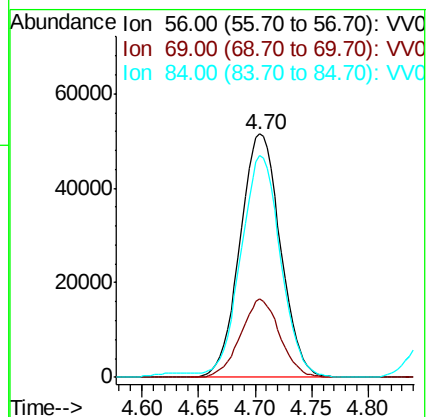
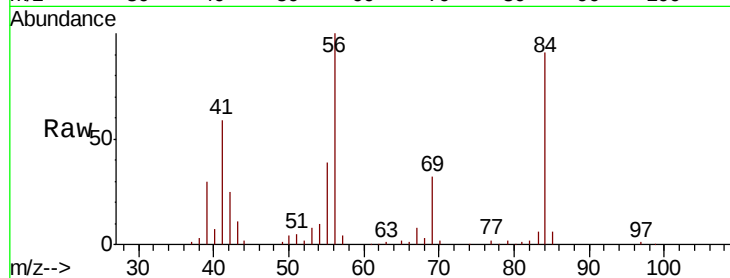
Tot Ion: 56 Resp: 128343

Ion Ratio Lower Upper

56 100

69 31.2 25.0 37.4

84 89.4 71.5 107.3



#30

1,1,1-Trichloroethane

Concen: 53.143 ug/L

RT: 4.63 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

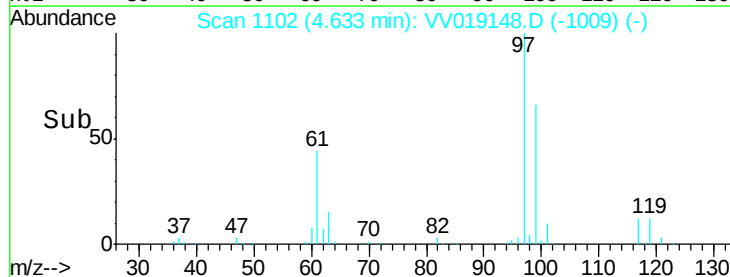
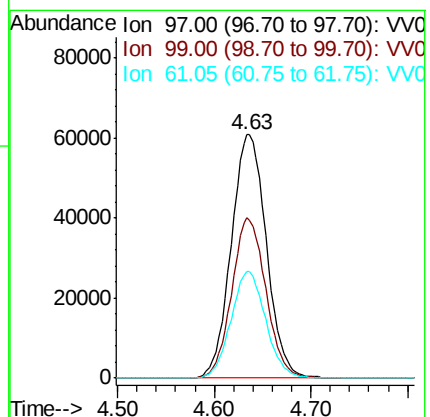
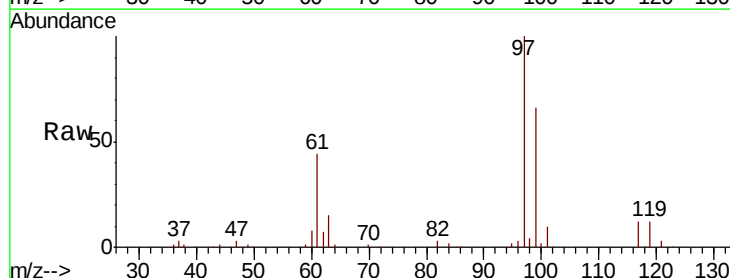
Tgt Ion: 97 Resp: 153322

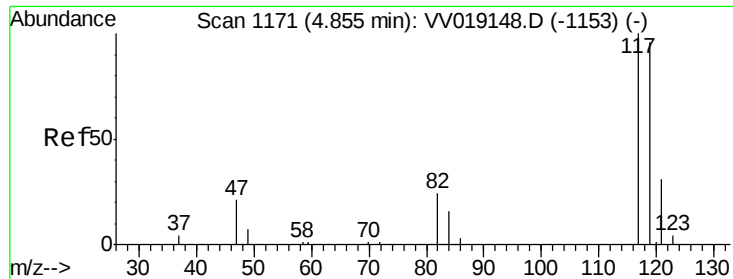
Ion Ratio Lower Upper

97 100

99 64.1 51.3 76.9

61 43.3 34.6 52.0





#31

Carbon tetrachloride

Concen: 53.722 ug/L

RT: 4.86 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

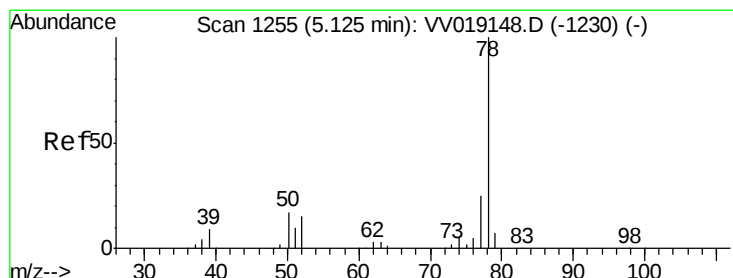
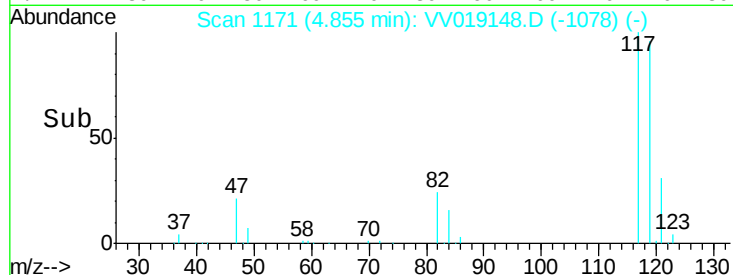
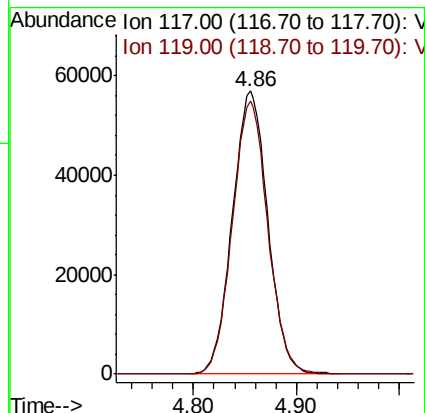
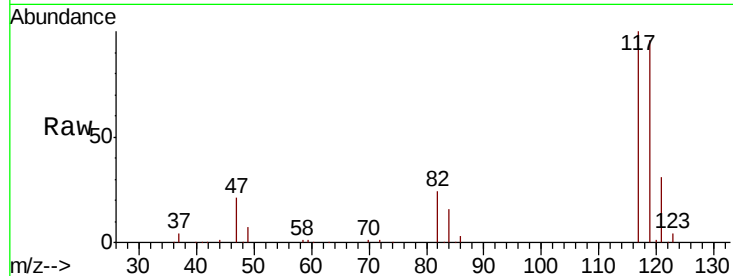
VSTD05064

Tot Ion:117 Resp: 136018

Ion Ratio Lower Upper

117 100

119 96.5 77.2 115.8



#33

Benzene

Concen: 47.420 ug/L

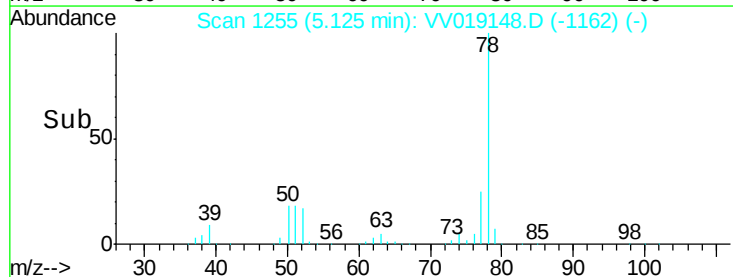
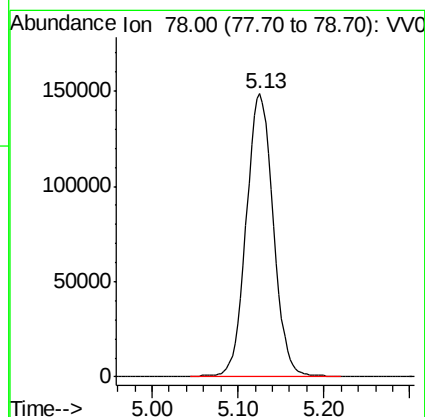
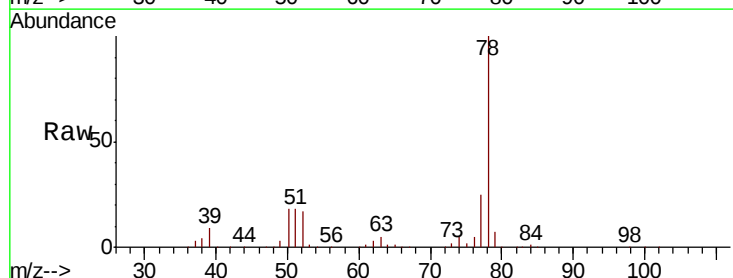
RT: 5.13 min Scan# 1255

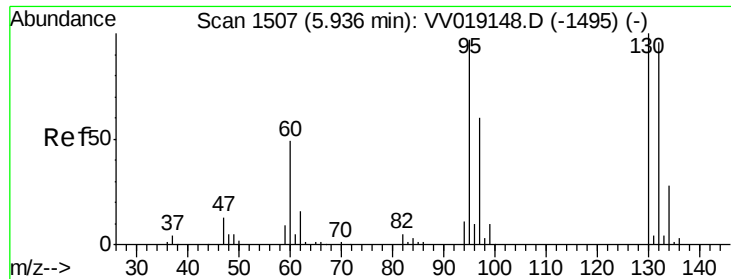
Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Tgt Ion: 78 Resp: 326048

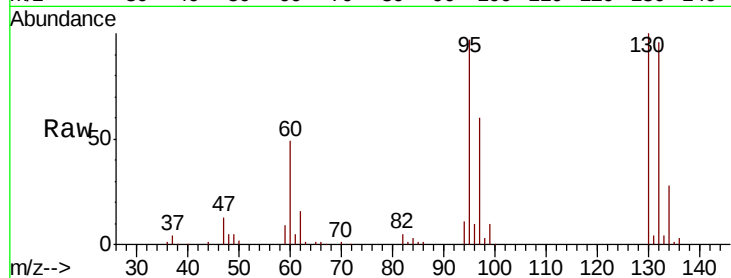




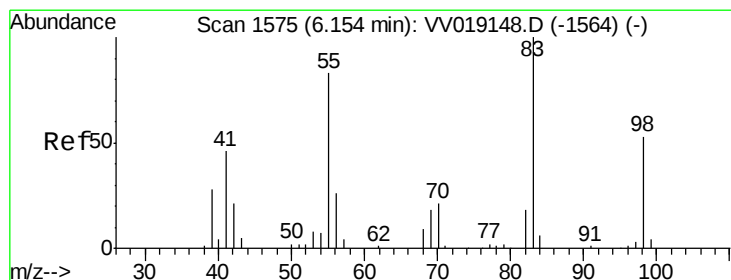
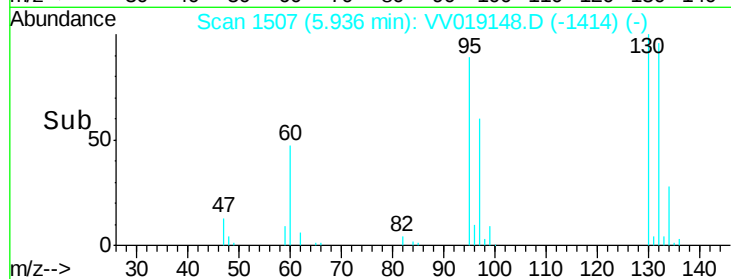
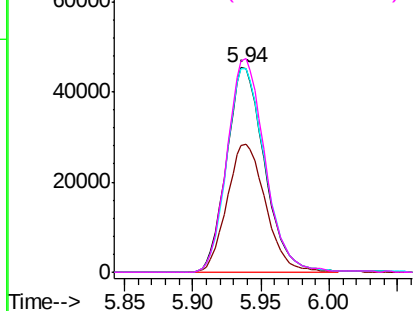
#34
 Trichloroethene
 Concen: 49.710 ug/L
 RT: 5.94 min Scan# 1507
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

Tot Ion: 95 Resp: 87900
 Ion Ratio Lower Upper
 95 100
 97 62.0 43.4 80.6
 132 99.5 69.7 129.4
 130 103.5 72.4 134.5

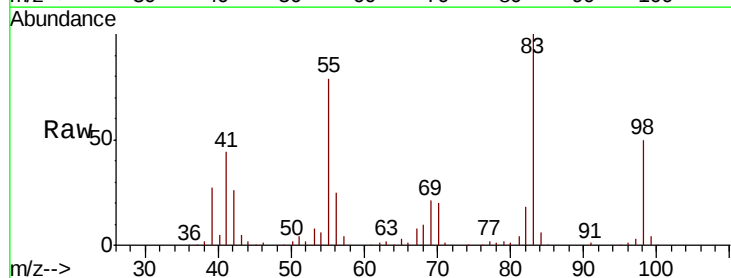


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

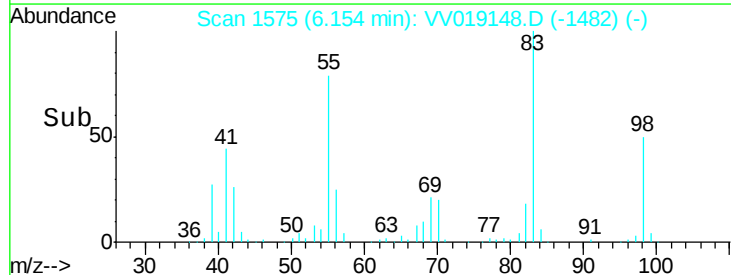
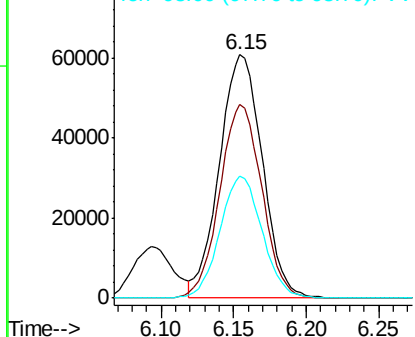


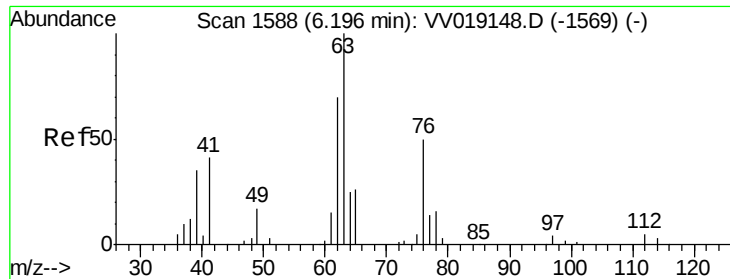
#35
 Methylcyclohexane
 Concen: 51.961 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

Tgt Ion: 83 Resp: 125383
 Ion Ratio Lower Upper
 83 100
 55 77.8 62.2 93.4
 98 49.3 39.4 59.2



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0

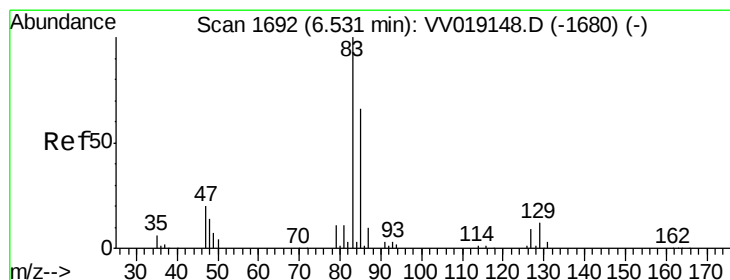
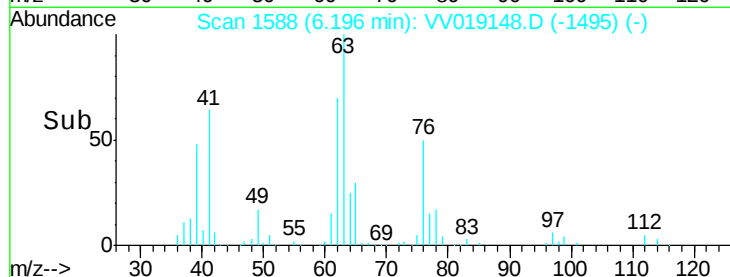
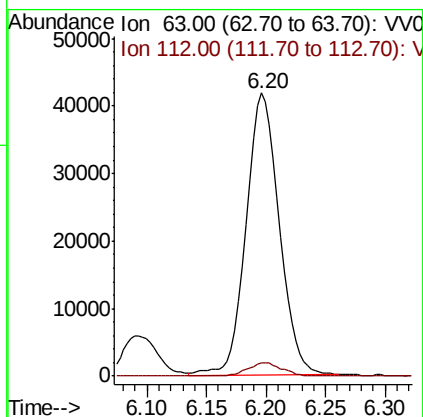
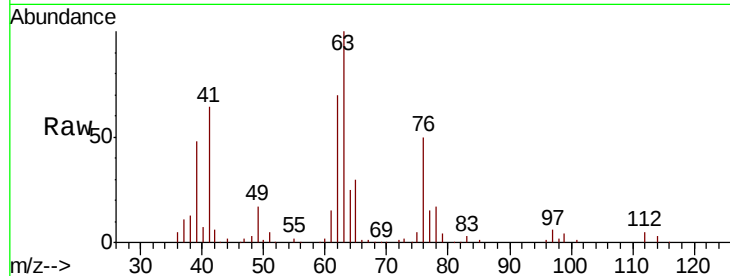




#37
 1,2-Dichloropropane
 Concen: 43.197 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

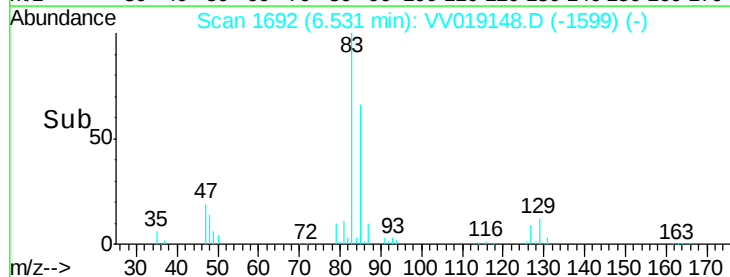
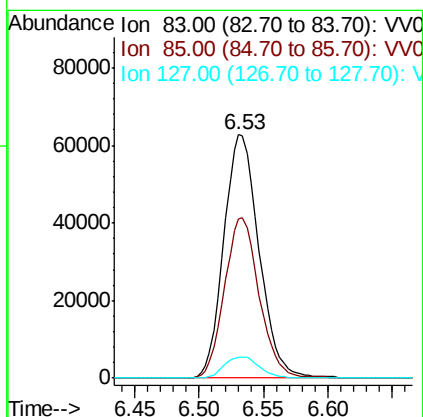
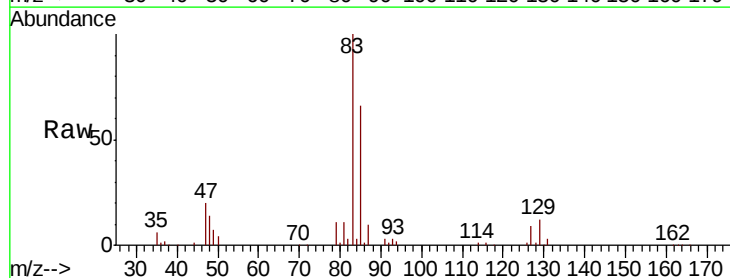
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

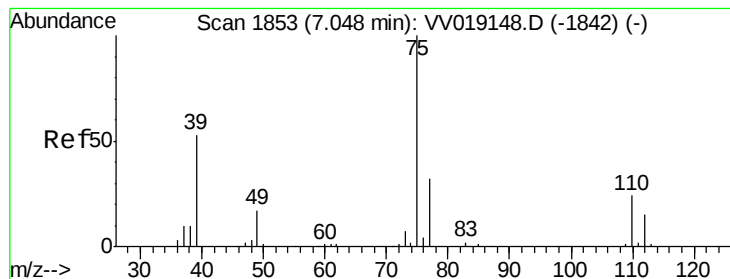
Tot Ion: 63 Resp: 80640
 Ion Ratio Lower Upper
 63 100
 112 4.8 3.8 5.8



#38
 Bromodichloromethane
 Concen: 49.098 ug/L
 RT: 6.53 min Scan# 1692
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

Tgt Ion: 83 Resp: 119302
 Ion Ratio Lower Upper
 83 100
 85 65.6 45.9 85.3
 127 8.6 6.9 10.3



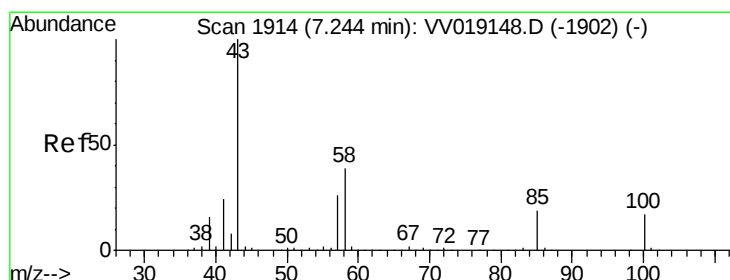
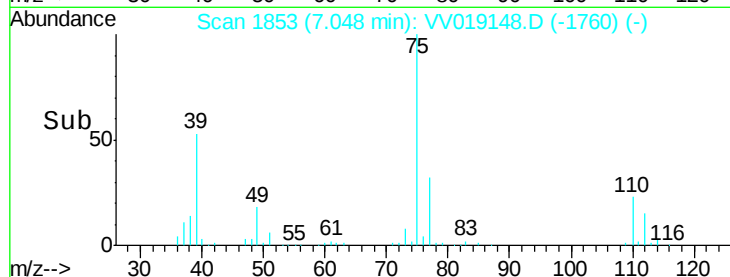
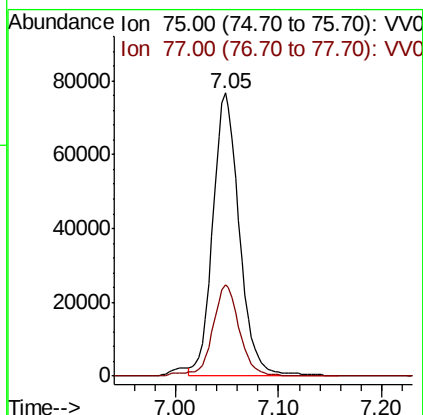
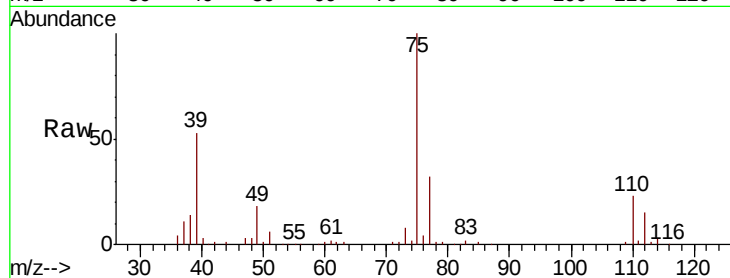


#39

cis-1,3-Dichloropropene
 Concen: 48.784 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

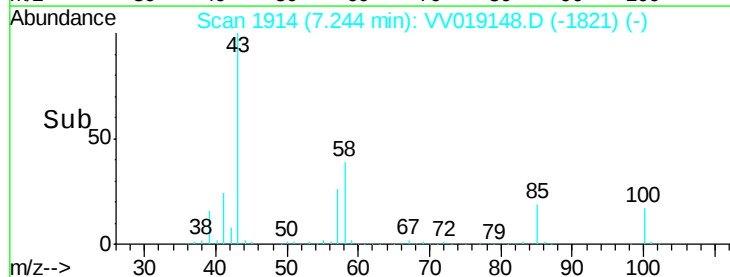
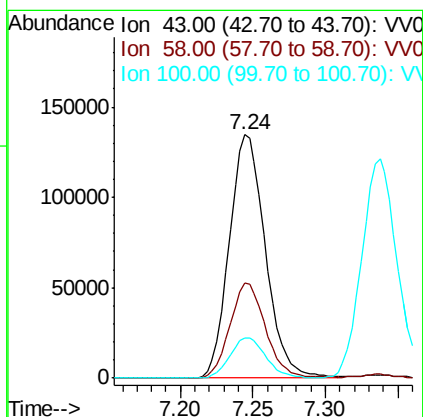
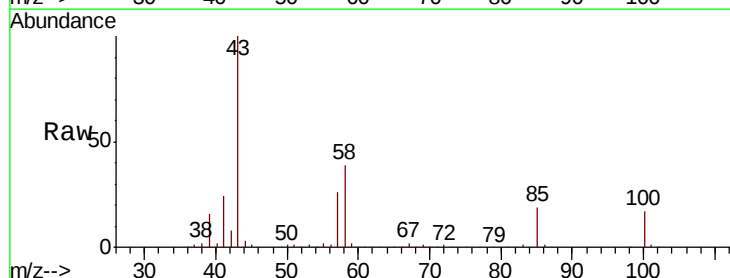
Tot Ion: 75 Resp: 137329
 Ion Ratio Lower Upper
 75 100
 77 32.4 22.7 42.1

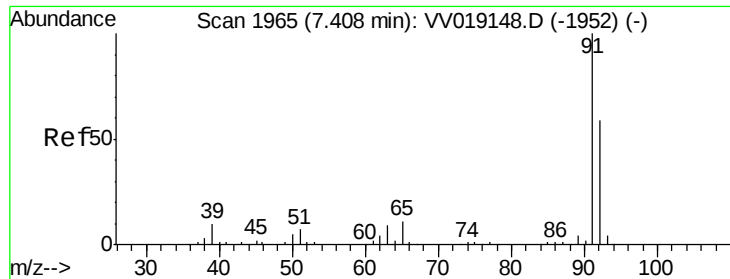


#40

4-Methyl-2-pentanone
 Concen: 92.473 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

Tgt Ion: 43 Resp: 232307
 Ion Ratio Lower Upper
 43 100
 58 38.7 31.0 46.4
 100 16.5 13.2 19.8





#42

Toluene

Concen: 50.757 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

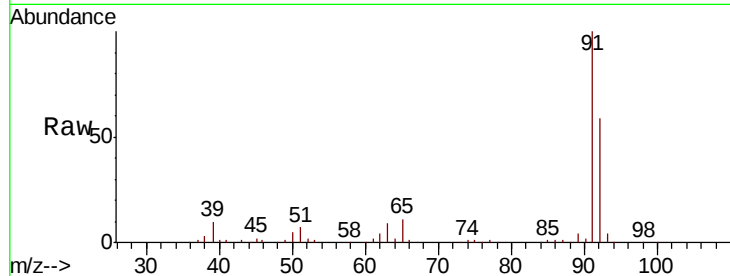
VSTD05064

Tot Ion: 91 Resp: 363436

Ion Ratio Lower Upper

91 100

92 59.3 41.5 77.1



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.41

250000

200000

150000

100000

50000

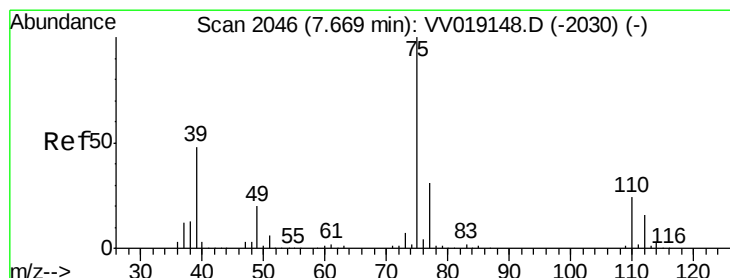
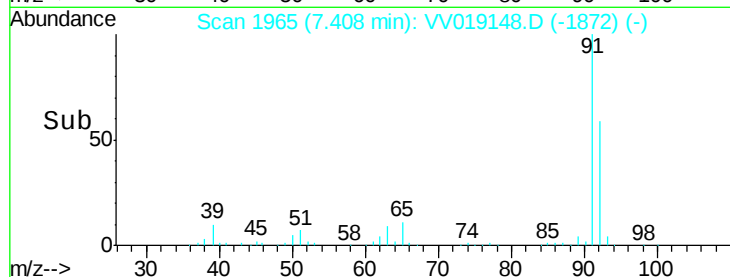
0

Time-->

7.30

7.40

7.50



#44

trans-1,3-Dichloropropene

Concen: 50.402 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VV019148.D

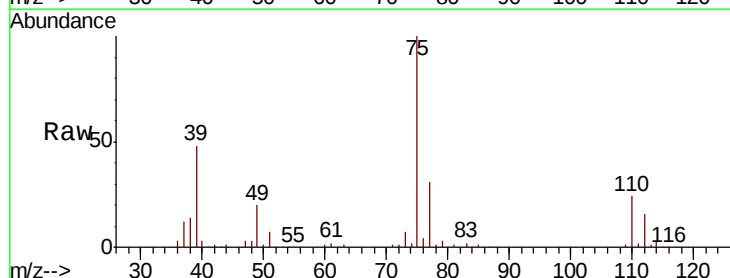
Acq: 29 Oct 2020 14:52

Tgt Ion: 75 Resp: 141446

Ion Ratio Lower Upper

75 100

77 31.1 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.67

80000

60000

40000

20000

0

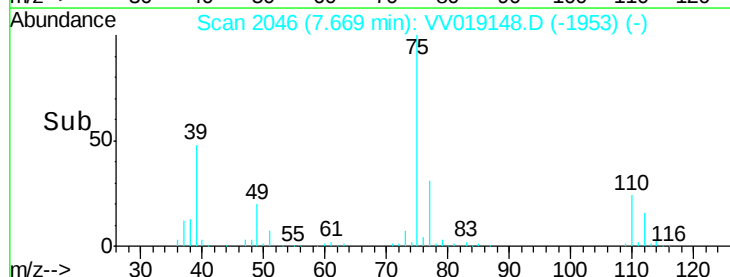
Time-->

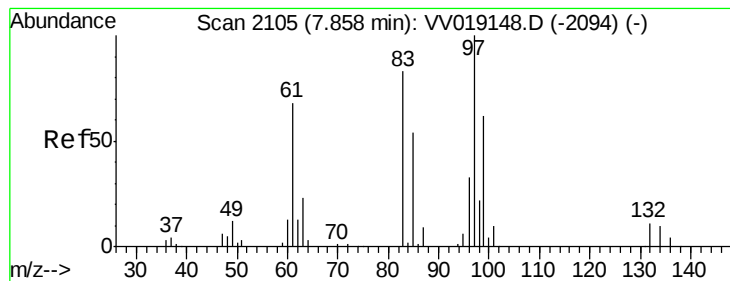
7.60

7.65

7.70

7.75





#45

1,1,2-Trichloroethane

Concen: 47.901 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

Tot Ion: 97 Resp: 80912

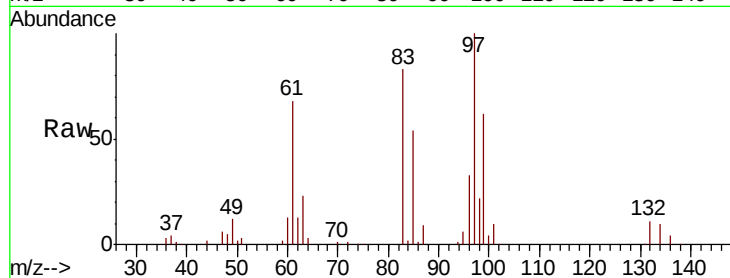
Ion Ratio Lower Upper

97 100

99 61.6 43.1 80.1

83 83.3 58.3 108.3

85 54.0 37.8 70.2

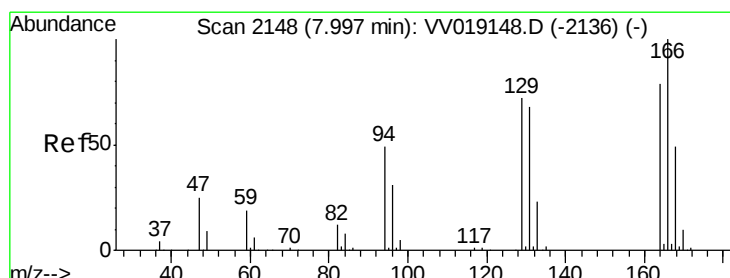
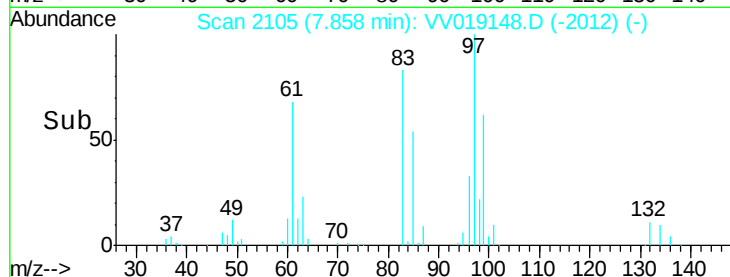
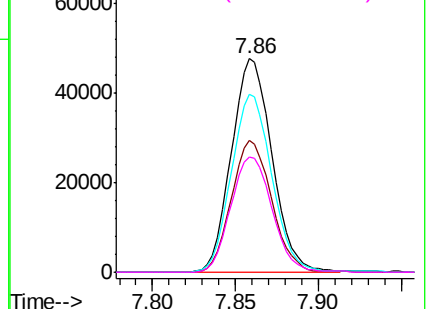


Abundance Ion 97.00 (96.70 to 97.70): VV0

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: 54.889 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Tgt Ion: 164 Resp: 76037

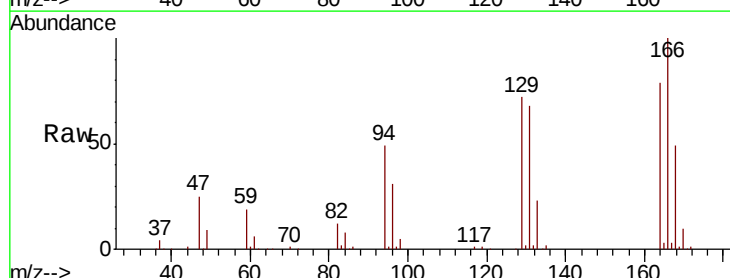
Ion Ratio Lower Upper

164 100

129 90.3 63.2 117.4

131 86.2 60.3 112.1

166 126.1 88.3 163.9

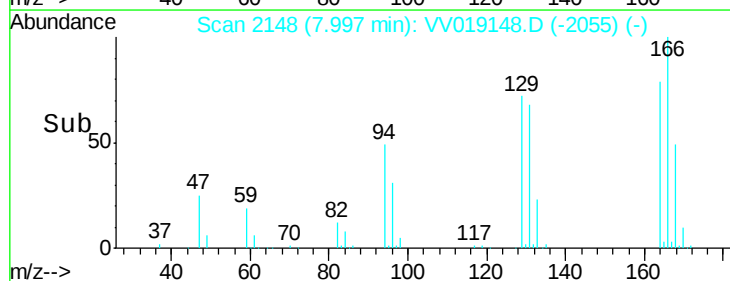
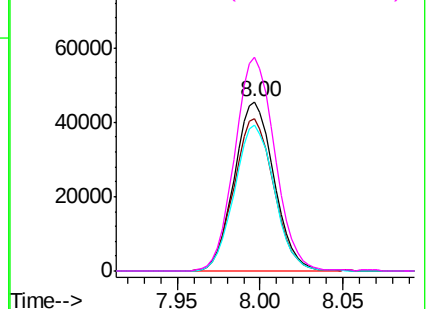


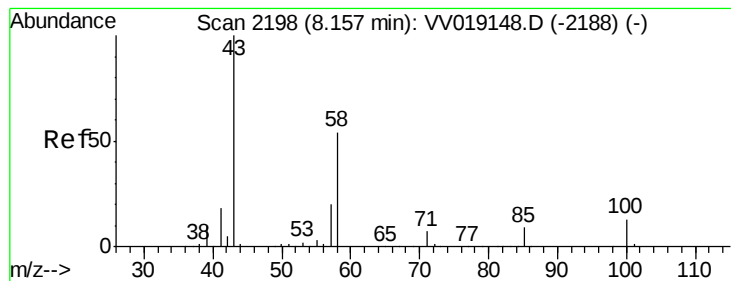
Abundance Ion 164.00 (163.70 to 164.70): V

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: 93.294 ug/L

RT: 8.16 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

Tot Ion: 43 Resp: 180861

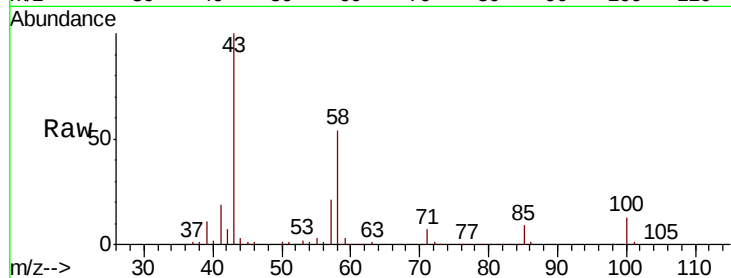
Ion Ratio Lower Upper

43 100

58 54.5 43.6 65.4

57 20.0 16.0 24.0

100 12.9 10.3 15.5

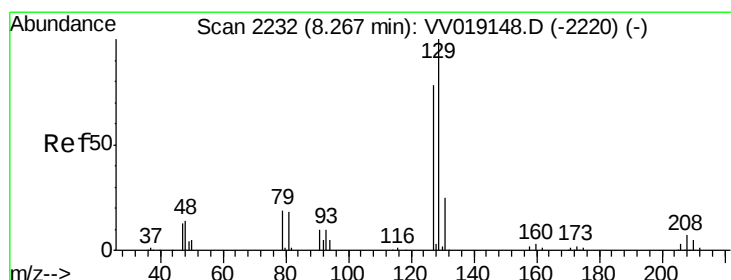
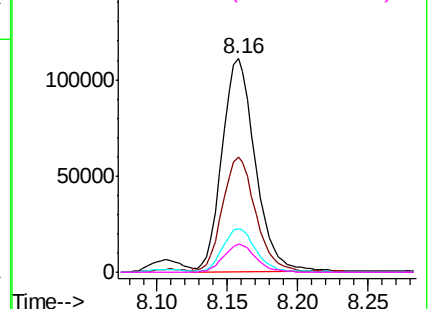
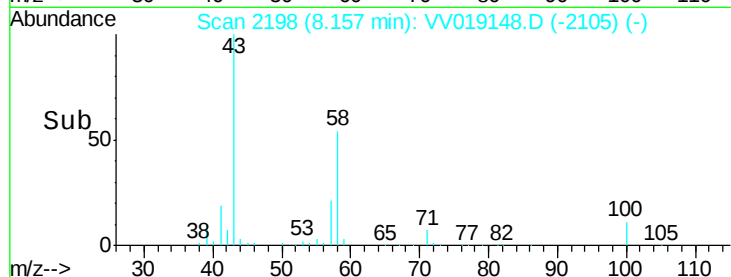


Abundance Ion 43.00 (42.70 to 43.70): VV019148.D (-2188) (-)

Ion 58.00 (57.70 to 58.70): VV019148.D (-2188) (-)

Ion 57.00 (56.70 to 57.70): VV019148.D (-2188) (-)

Ion 100.00 (99.70 to 100.70): VV019148.D (-2188) (-)



#49

Dibromochloromethane

Concen: 51.931 ug/L

RT: 8.27 min Scan# 2232

Delta R.T. 0.00 min

Lab File: VV019148.D

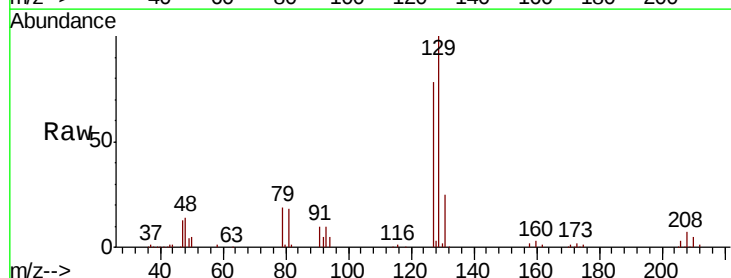
Acq: 29 Oct 2020 14:52

Tgt Ion: 129 Resp: 97196

Ion Ratio Lower Upper

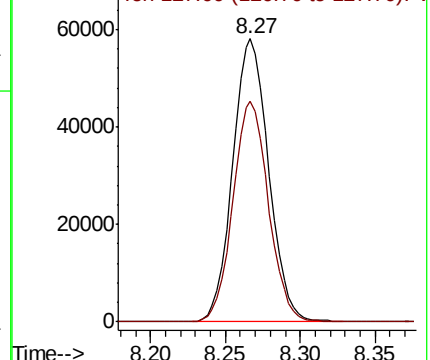
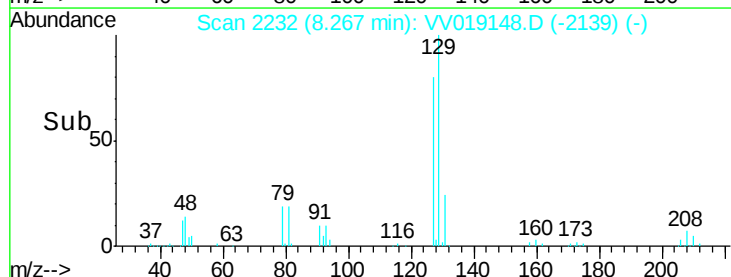
129 100

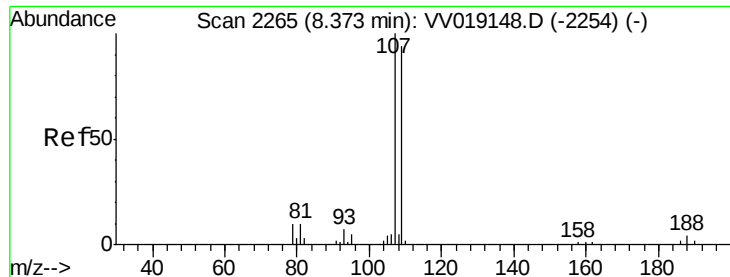
127 78.1 54.7 101.5



Abundance Ion 129.00 (128.70 to 129.70): VV019148.D (-2220) (-)

Ion 127.00 (126.70 to 127.70): VV019148.D (-2220) (-)

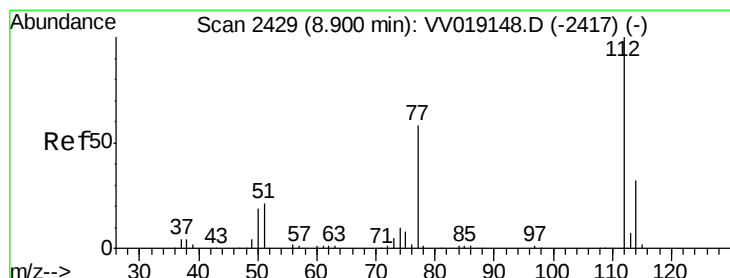
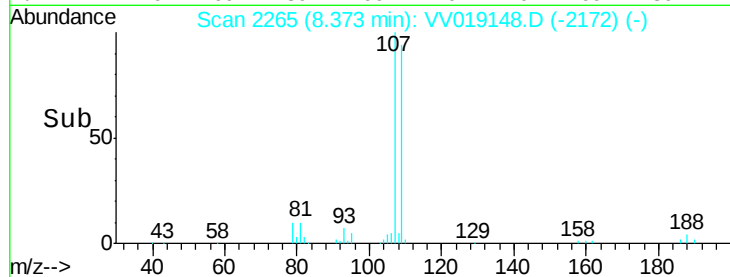
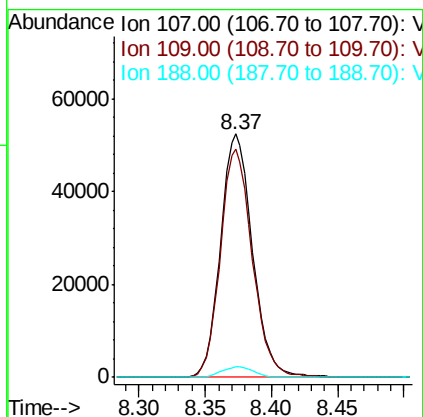
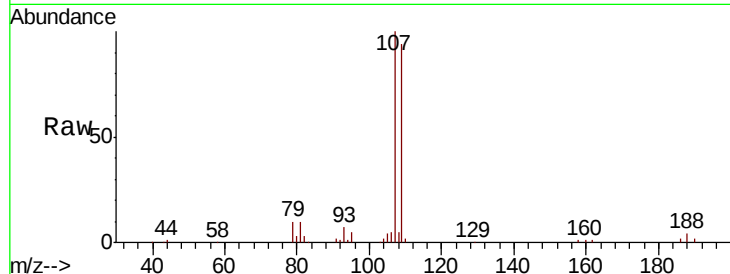




#50
 1,2-Dibromoethane
 Concen: 49.711 ug/L
 RT: 8.37 min Scan# 2265
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

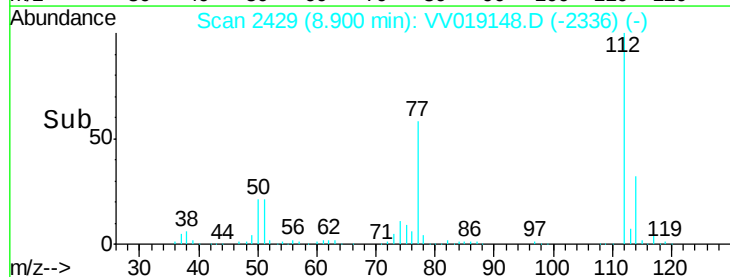
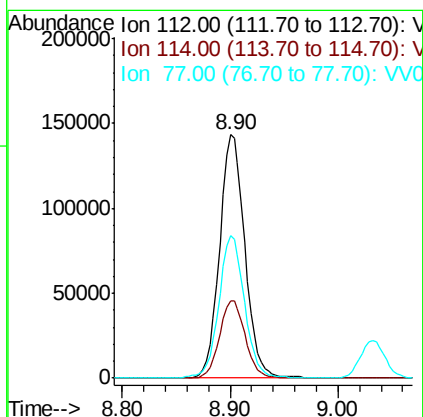
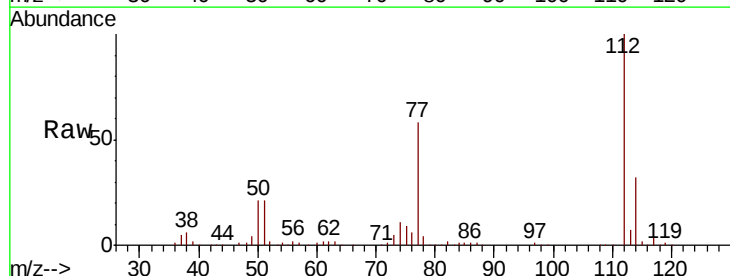
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

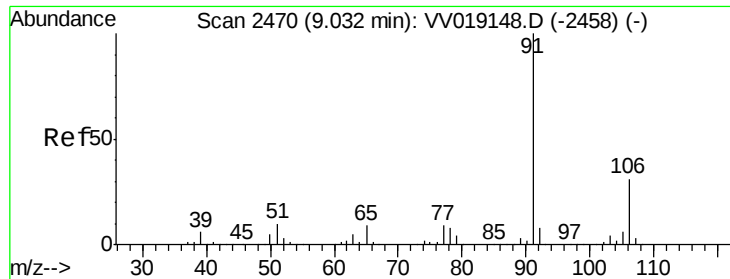
Tot Ion:107 Resp: 87614
 Ion Ratio Lower Upper
 107 100
 109 93.8 65.7 121.9
 188 4.3 3.4 5.2



#51
 Chlorobenzene
 Concen: 50.636 ug/L
 RT: 8.90 min Scan# 2429
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

Tgt Ion:112 Resp: 233679
 Ion Ratio Lower Upper
 112 100
 114 31.9 22.3 41.5
 77 58.4 46.7 70.1





#52

Ethylbenzene

Concen: 51.219 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

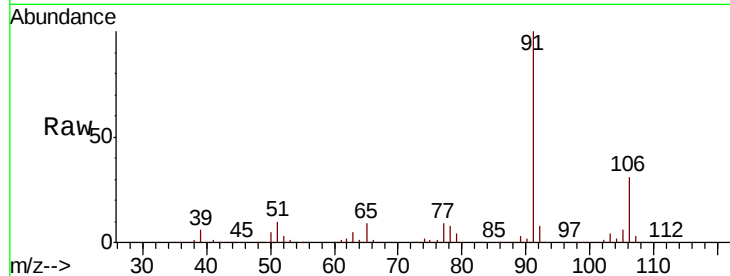
VSTD05064

Tot Ion: 91 Resp: 396794

Ion Ratio Lower Upper

91 100

106 30.8 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VV019148.D (-2458) (-)

Ion 106.00 (105.70 to 106.70): VV019148.D (-2458) (-)

9.03

250000

200000

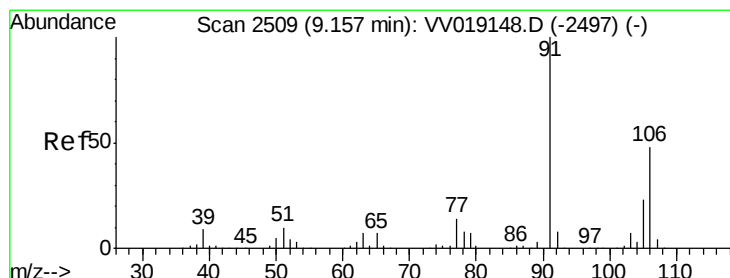
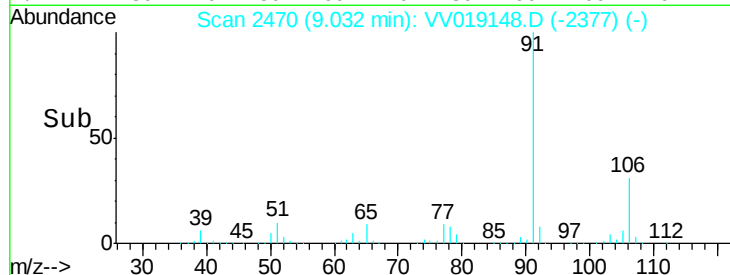
150000

100000

50000

0

Time--> 8.95 9.00 9.05 9.10



#53

m,p-Xylene

Concen: 53.375 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV019148.D

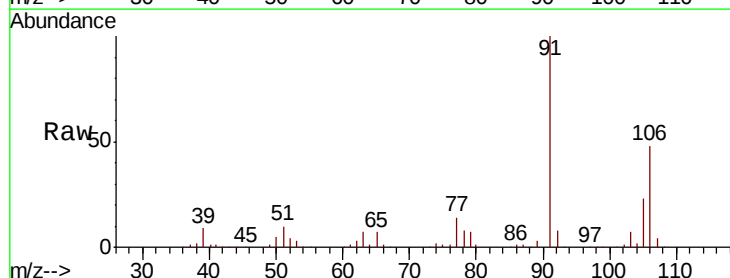
Acq: 29 Oct 2020 14:52

Tgt Ion: 106 Resp: 152468

Ion Ratio Lower Upper

106 100

91 207.7 145.4 270.0



Abundance Ion 106.00 (105.70 to 106.70): VV019148.D (-2497) (-)

Ion 91.00 (90.70 to 91.70): VV019148.D (-2497) (-)

9.16

200000

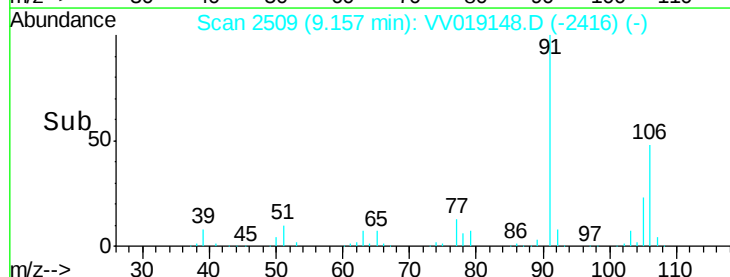
150000

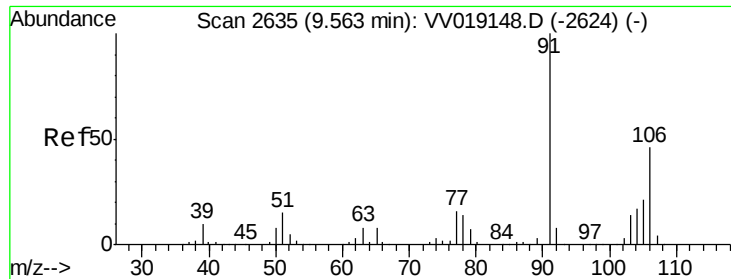
100000

50000

0

Time--> 9.10 9.15 9.20 9.25





#54

o-xylene

Concen: 53.402 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

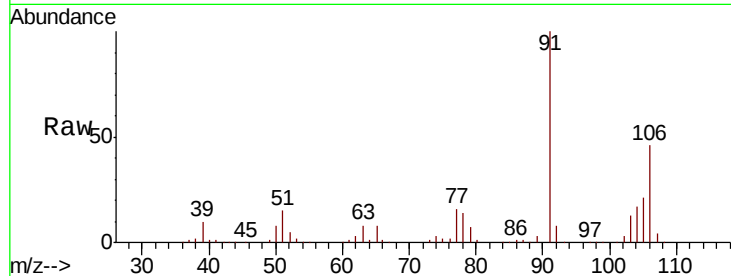
VSTD05064

Tot Ion:106 Resp: 146843

Ion Ratio Lower Upper

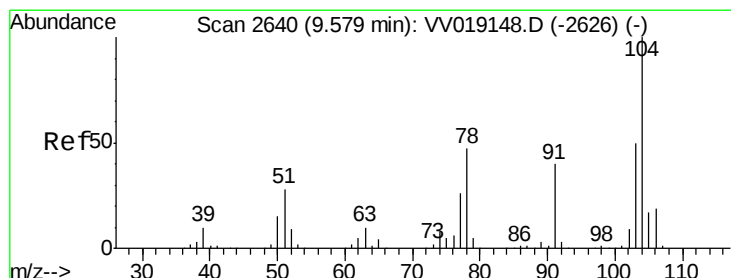
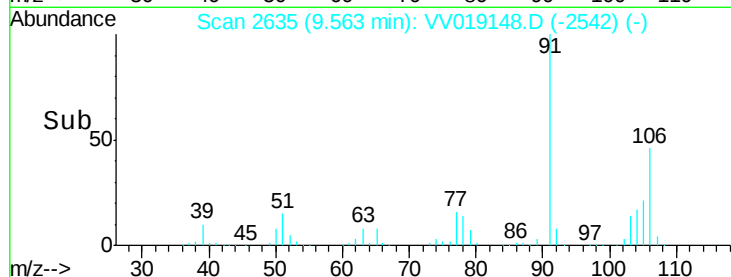
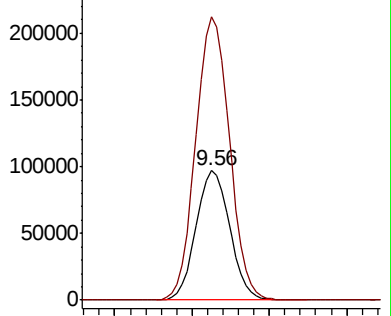
106 100

91 219.2 153.4 285.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 54.143 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. 0.00 min

Lab File: VV019148.D

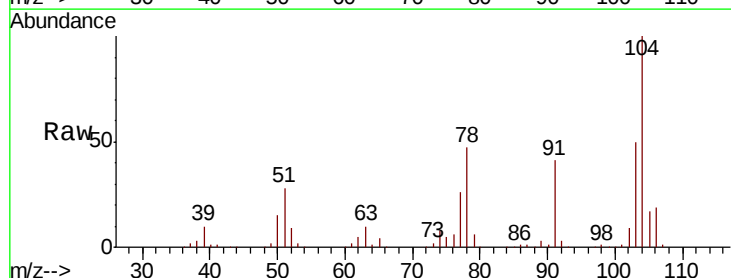
Acq: 29 Oct 2020 14:52

Tgt Ion:104 Resp: 263946

Ion Ratio Lower Upper

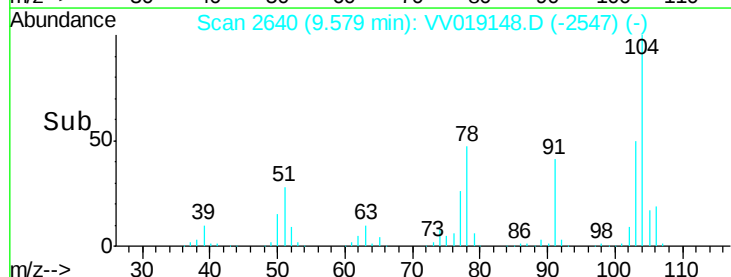
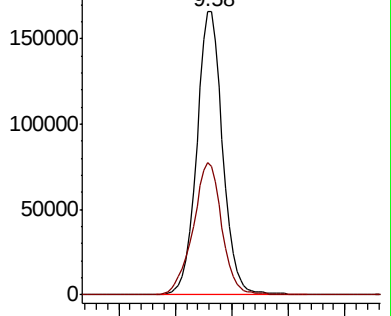
104 100

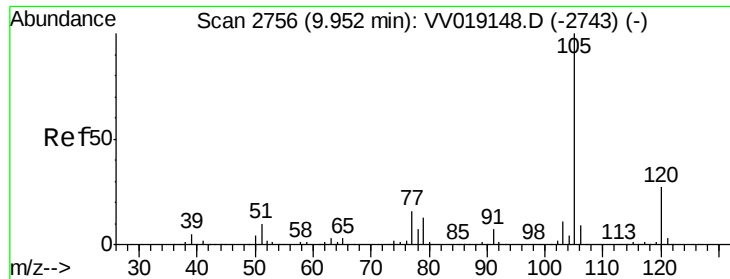
78 46.8 32.8 60.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 54.626 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

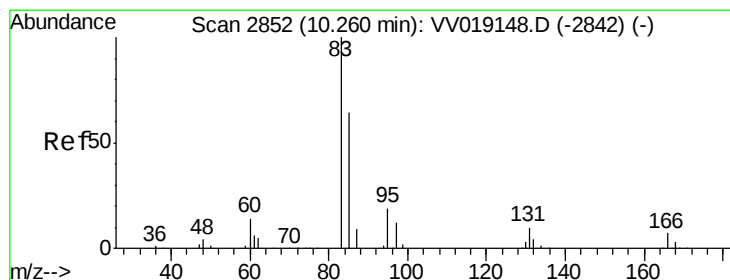
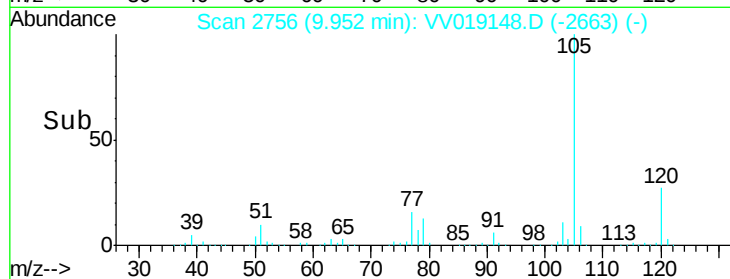
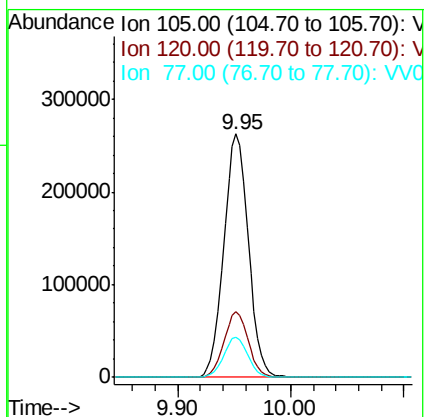
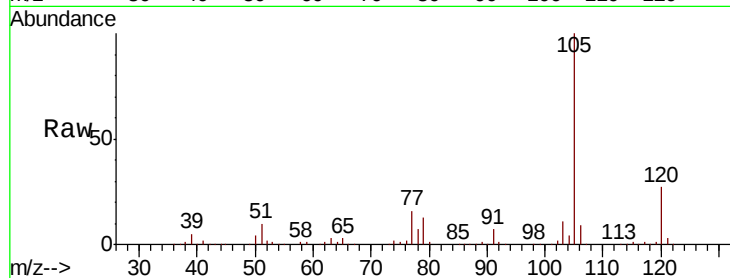
Tot Ion:105 Resp: 396951

Ion Ratio Lower Upper

105 100

120 26.6 21.3 31.9

77 16.2 13.0 19.4



#58

1,1,2,2-Tetrachloroethane

Concen: 44.934 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

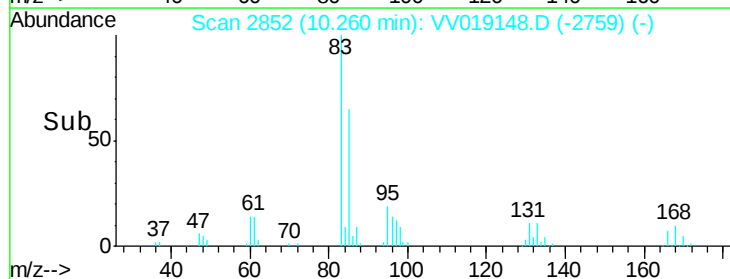
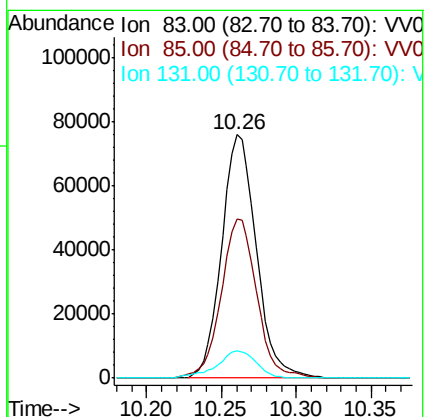
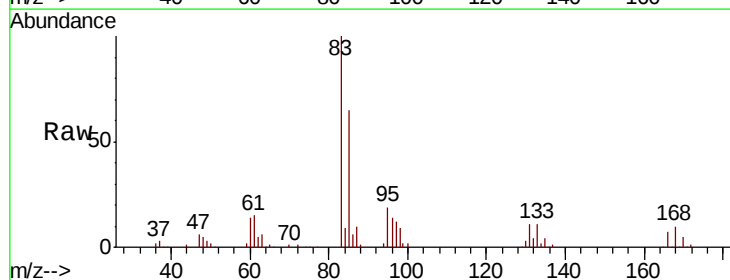
Tgt Ion: 83 Resp: 122742

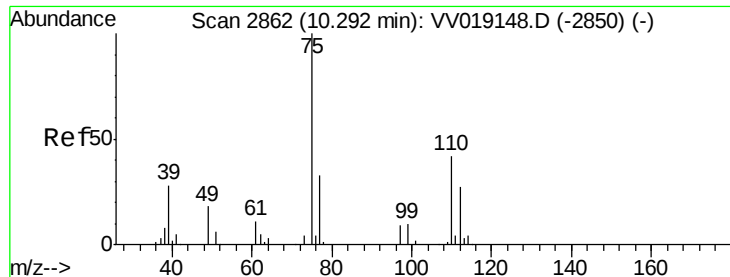
Ion Ratio Lower Upper

83 100

85 65.4 45.8 85.0

131 11.1 8.9 13.3





#59

1,2,3-Trichloropropane

Concen: 47.147 ug/L

RT: 10.29 min Scan# 2862

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

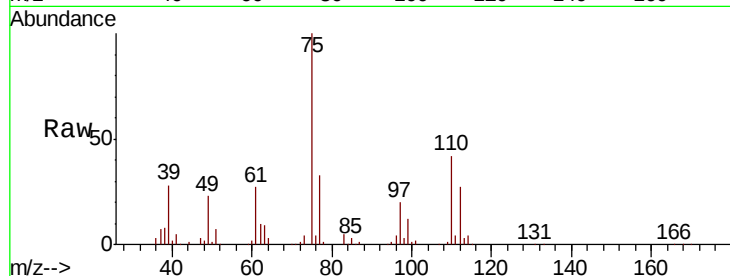
VSTD05064

Tot Ion: 75 Resp: 104482

Ion Ratio Lower Upper

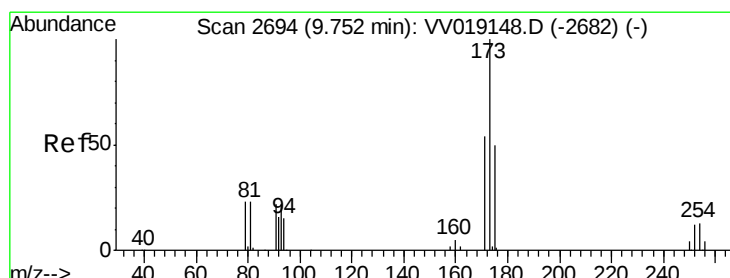
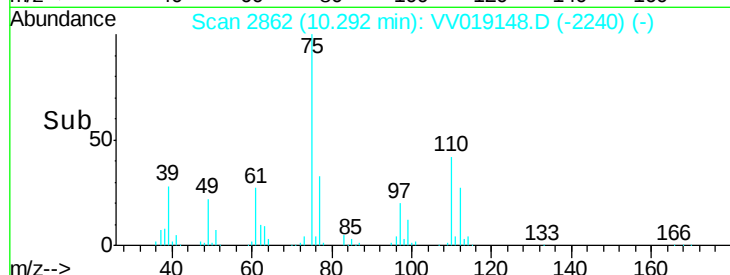
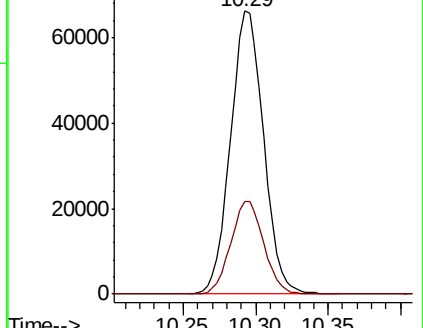
75 100

77 32.8 26.2 39.4



Abundance Ion 75.00 (74.70 to 75.70): VV019148.D (-2850) (-)

Ion 77.00 (76.70 to 77.70): VV019148.D (-2850) (-)



#61

Bromoform

Concen: 52.809 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

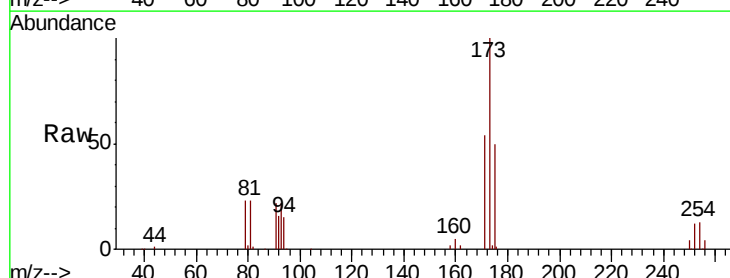
Tgt Ion: 173 Resp: 75888

Ion Ratio Lower Upper

173 100

175 49.7 39.8 59.6

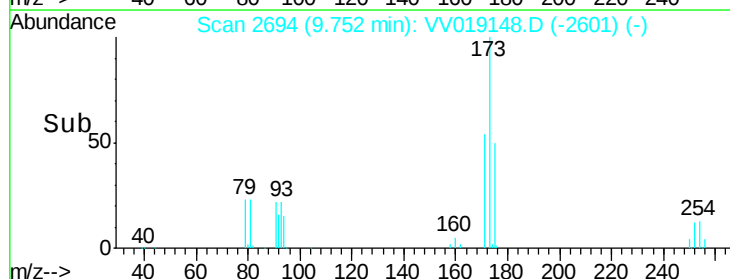
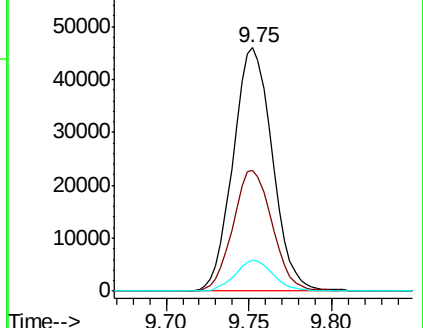
254 12.1 9.7 14.5

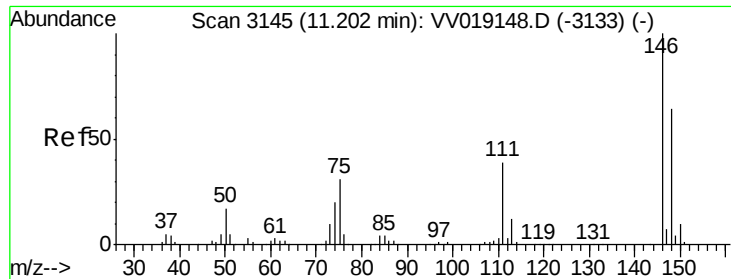


Abundance Ion 173.00 (172.70 to 173.70): VV019148.D (-2682) (-)

Ion 175.00 (174.70 to 175.70): VV019148.D (-2682) (-)

Ion 254.00 (253.70 to 254.70): VV019148.D (-2682) (-)

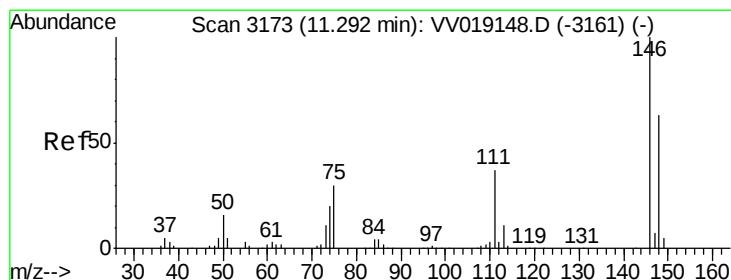
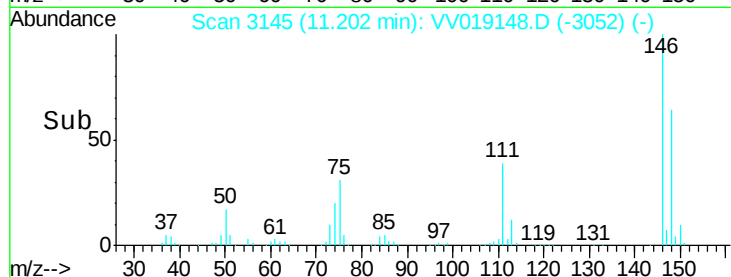
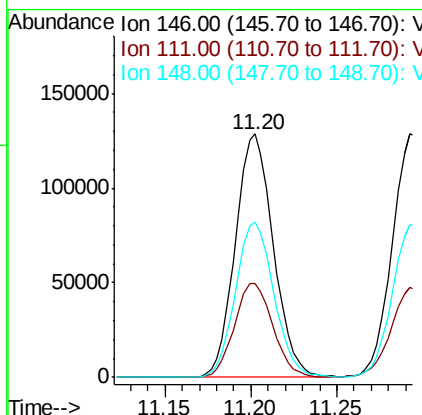
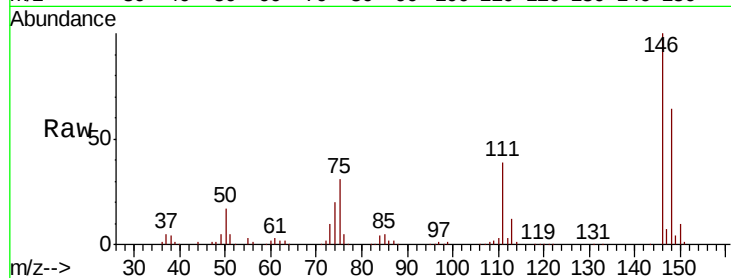




#62
 1,3-Dichlorobenzene
 Concen: 51.836 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

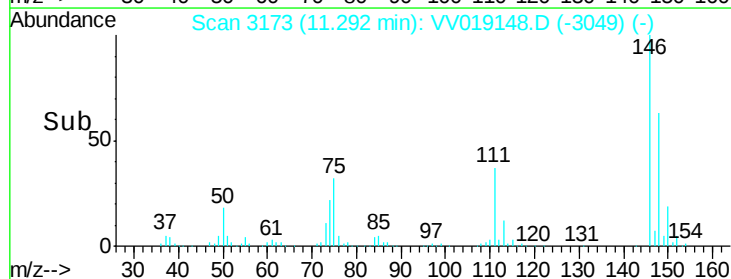
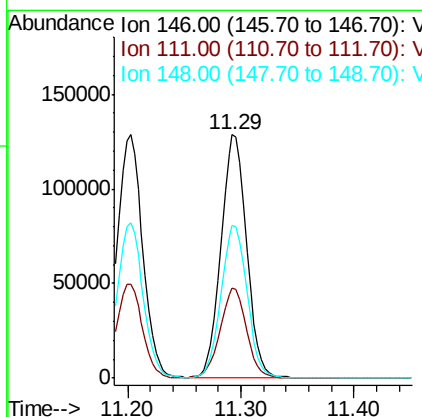
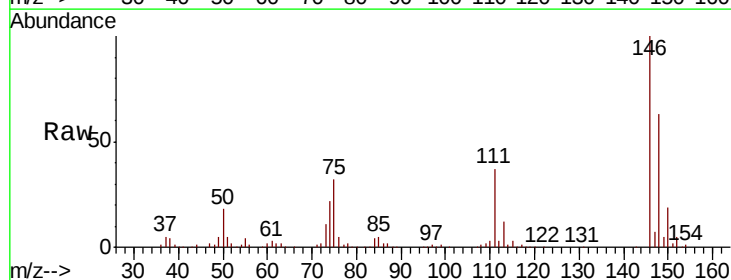
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

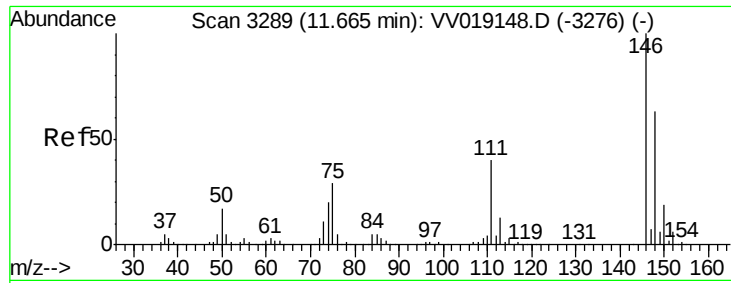
Tot Ion:146 Resp: 197397
 Ion Ratio Lower Upper
 146 100
 111 38.7 27.1 50.3
 148 63.9 44.7 83.1



#63
 1,4-Dichlorobenzene
 Concen: 51.071 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

Tgt Ion:146 Resp: 203281
 Ion Ratio Lower Upper
 146 100
 111 36.9 25.8 48.0
 148 62.8 44.0 81.6





#65

1,2-Dichlorobenzene

Concen: 50.788 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

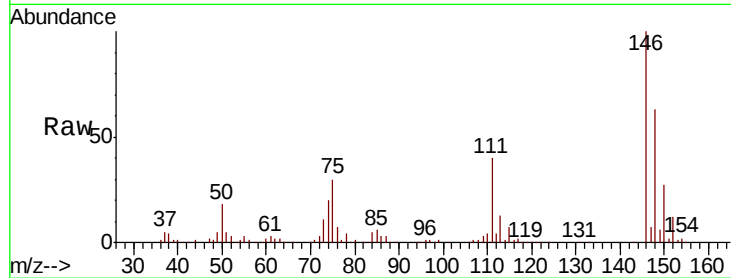
Tot Ion:146 Resp: 194848

Ion Ratio Lower Upper

146 100

111 40.3 32.2 48.4

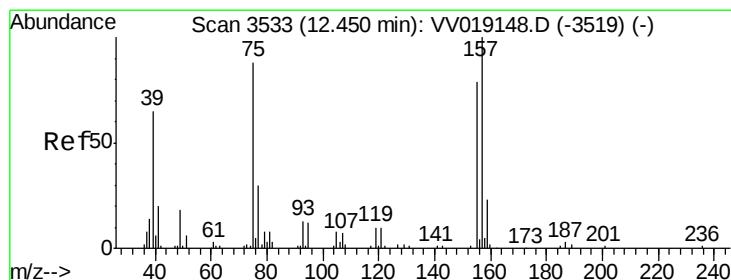
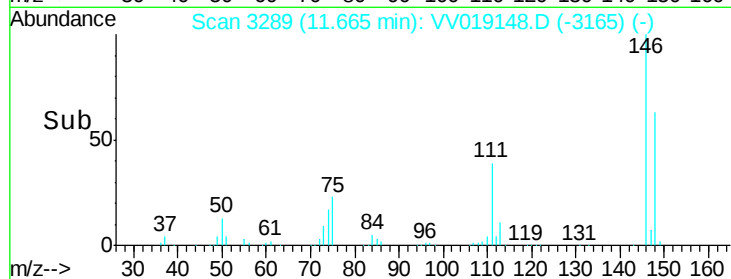
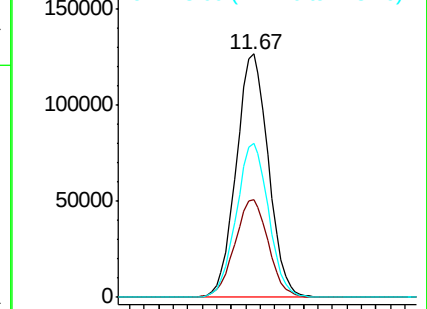
148 63.5 50.8 76.2



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: 48.874 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

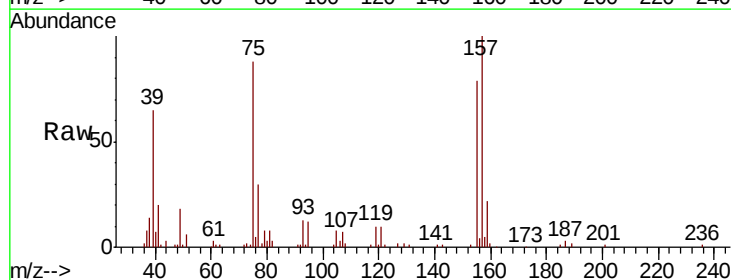
Tgt Ion: 75 Resp: 32637

Ion Ratio Lower Upper

75 100

155 88.9 71.1 106.7

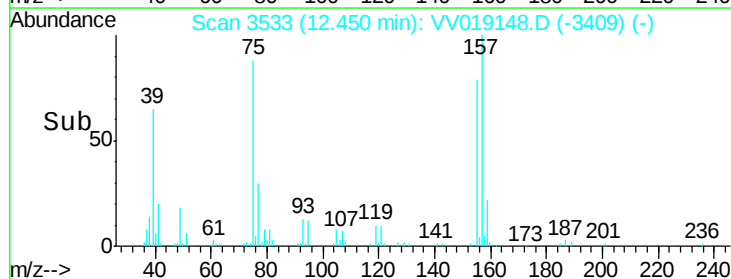
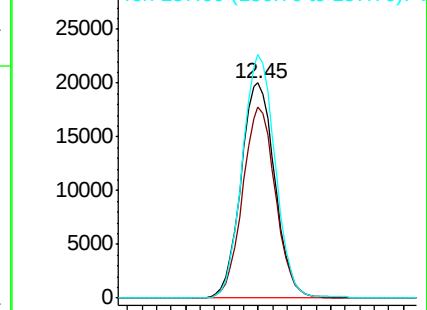
157 113.1 90.5 135.7

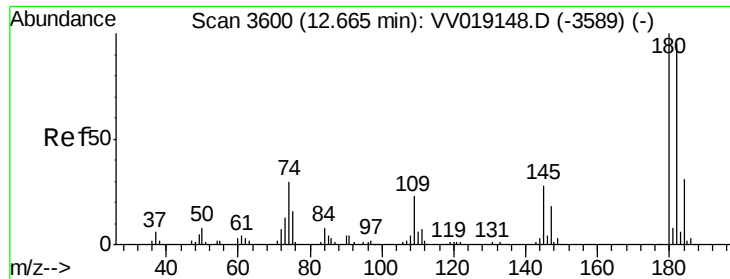


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

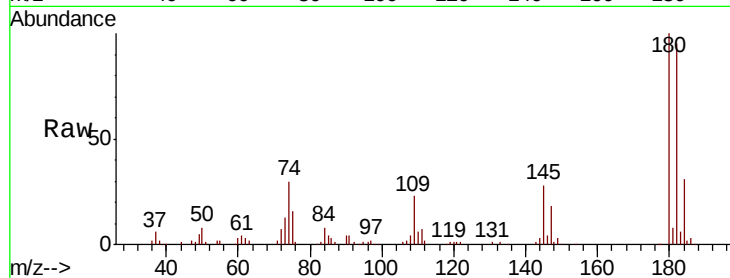




#67
 1,3,5-Trichlorobenzene
 Concen: 55.074 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05064

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.1	114.1
184	30.6	24.5	36.7
145	28.4	22.7	34.1



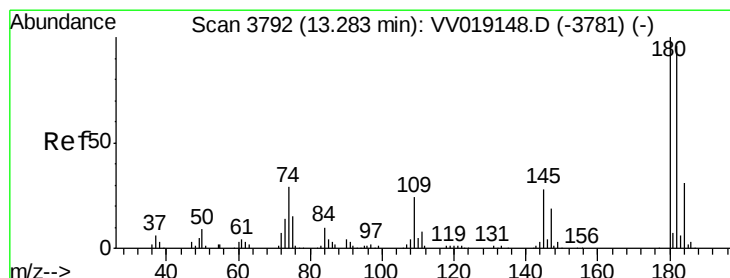
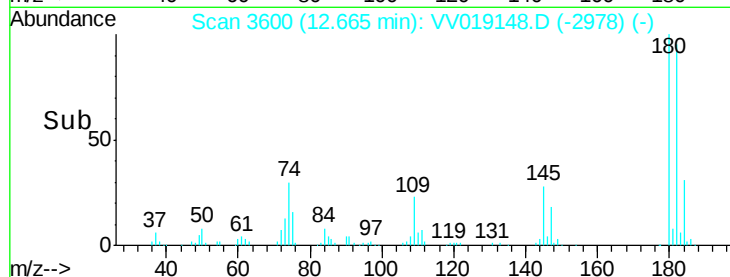
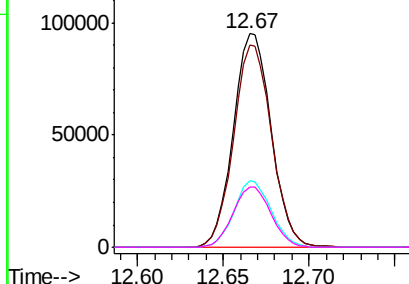
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

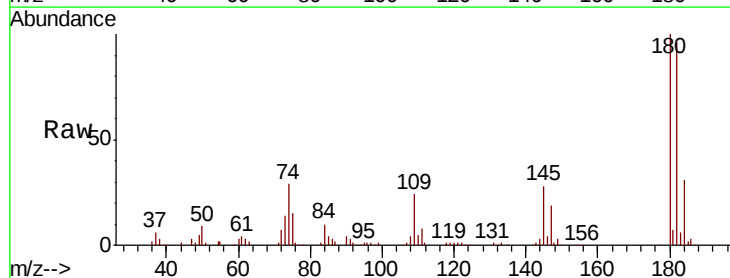
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 55.483 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV019148.D
 Acq: 29 Oct 2020 14:52

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.8	113.6
145	28.3	22.6	34.0

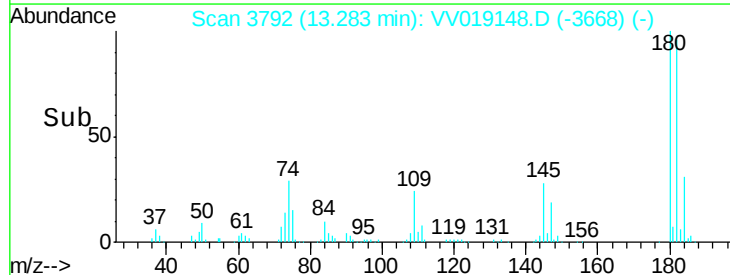
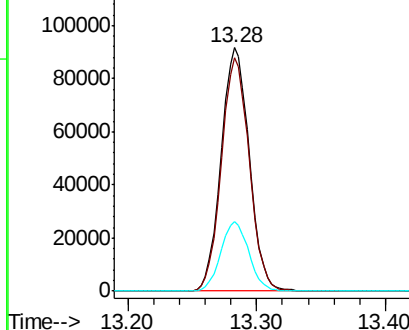


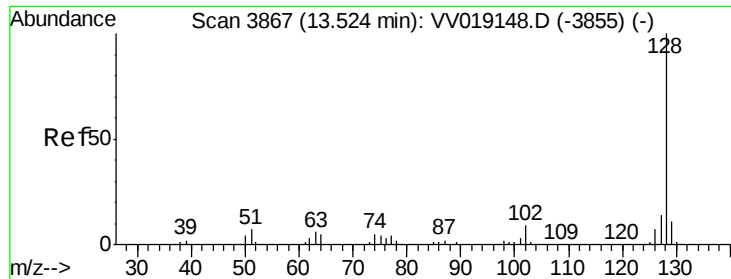
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 54.298 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

Instrument :

MSVOA_V

ClientSampleId :

VSTD05064

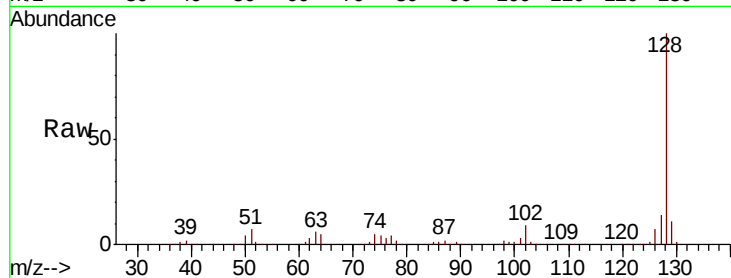
Tot Ion:128 Resp: 408198

Ion Ratio Lower Upper

128 100

127 13.5 10.8 16.2

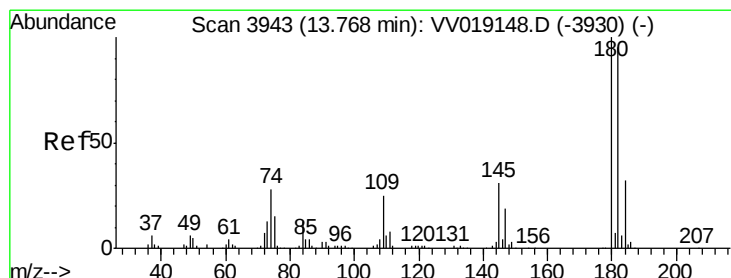
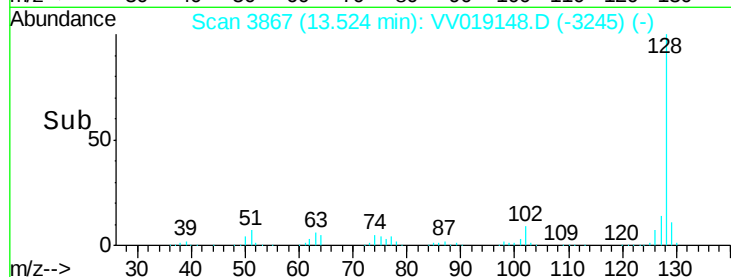
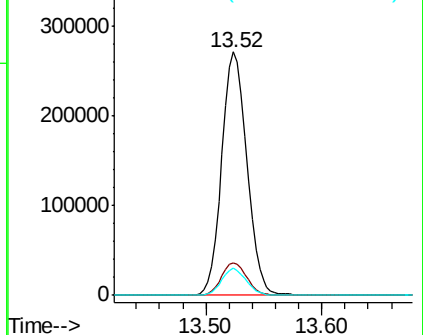
129 10.8 8.6 13.0



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: 54.566 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VV019148.D

Acq: 29 Oct 2020 14:52

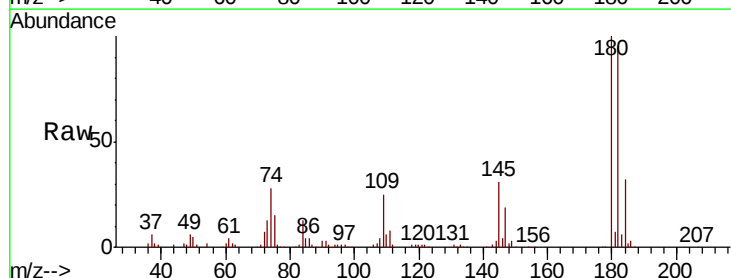
Tgt Ion:180 Resp: 137150

Ion Ratio Lower Upper

180 100

182 95.3 76.2 114.4

145 31.4 25.1 37.7



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

