

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100220\
 Data File : VV018616.D
 Acq On : 02 Oct 2020 11:07
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05099

Quant Time: Oct 03 00:45:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM092920WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Oct 02 18:26:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	284385	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	284559	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	161635	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	87866	52.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	105.36%
7) Chloroethane-d5	1.58	69	74335	53.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.80%
11) 1,1-Dichloroethene-d2	2.12	63	195752	57.60	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	115.20%
21) 2-Butanone-d5	3.90	46	117042	94.08	ug/L	-0.01
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.08%
24) Chloroform-d	4.37	84	182815	50.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.38%
26) 1,2-Dichloroethane-d4	5.05	65	116828	51.03	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	102.06%
32) Benzene-d6	5.07	84	342261	47.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.96%
36) 1,2-Dichloropropane-d6	6.09	67	103550	47.55	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.10%
41) Toluene-d8	7.34	98	326020	48.08	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.16%
43) trans-1,3-Dichloropropene-	7.64	79	54993	46.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.48%
47) 2-Hexanone-d5	8.11	63	75469	91.23	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	91.23%
57) 1,1,2,2-Tetrachloroethane-	10.23	84	136320	47.21	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.42%
64) 1,2-Dichlorobenzene-d4	11.65	152	142015	45.69	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.38%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	97321	50.330	ug/L	100
3) Chloromethane	1.25	50	96100	46.447	ug/L	99
5) Vinyl chloride	1.32	62	105627	48.556	ug/L	100
6) Bromomethane	1.53	94	73466	49.620	ug/L	100
8) Chloroethane	1.59	64	70543	52.623	ug/L	100
9) Trichlorofluoromethane	1.76	101	195300	59.070	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	104450	56.445	ug/L	100
12) 1,1-Dichloroethene	2.13	96	98177	55.302	ug/L	95
13) Acetone	2.18	43	110793	103.079	ug/L	98
14) Carbon disulfide	2.31	76	281725	48.988	ug/L	100
15) Methyl Acetate	2.44	43	98580	47.607	ug/L	100
16) Methylene chloride	2.52	84	106902	50.172	ug/L	96
17) trans-1,2-Dichloroethene	2.78	96	101899	50.163	ug/L	98
18) Methyl tert-butyl Ether	2.78	73	309940	50.077	ug/L	99
19) 1,1-Dichloroethane	3.21	63	181260	50.962	ug/L	99
20) cis-1,2-Dichloroethene	3.94	96	109784	50.853	ug/L	98
22) 2-Butanone	3.99	43	137600	101.340	ug/L	97

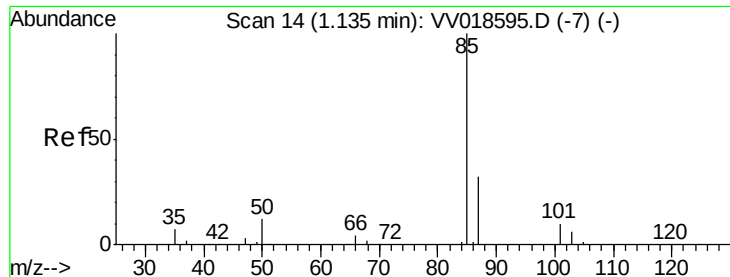
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 Quant Title : VOC Analysis
 QLast Update : Fri Oct 02 18:26:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	60541	50.997	ug/L	98
25) Chloroform	4.40	83	198754	52.922	ug/L	97
27) 1,2-Dichloroethane	5.15	62	155552	53.139	ug/L	100
29) Cyclohexane	4.70	56	152223	46.903	ug/L	98
30) 1,1,1-Trichloroethane	4.63	97	181215	51.296	ug/L	99
31) Carbon tetrachloride	4.85	117	164813	51.983	ug/L	99
33) Benzene	5.12	78	410149	49.061	ug/L	100
34) Trichloroethene	5.94	95	118787	48.943	ug/L	98
35) Methylcyclohexane	6.15	83	152973	46.723	ug/L	100
37) 1,2-Dichloropropane	6.20	63	106958	49.868	ug/L	99
38) Bromodichloromethane	6.53	83	147775	51.446	ug/L	99
39) cis-1,3-Dichloropropene	7.05	75	166184	49.384	ug/L	97
40) 4-Methyl-2-pentanone	7.24	43	272190	98.348	ug/L	100
42) Toluene	7.41	91	458212	50.666	ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	170917	51.704	ug/L	98
45) 1,1,2-Trichloroethane	7.86	97	105860	49.857	ug/L	99
46) Tetrachloroethene	8.00	164	98346	49.947	ug/L	99
48) 2-Hexanone	8.16	43	217277	100.618	ug/L	98
49) Dibromochloromethane	8.27	129	124086	51.095	ug/L	98
50) 1,2-Dibromoethane	8.37	107	113139	50.117	ug/L	98
51) Chlorobenzene	8.90	112	302937	49.515	ug/L	98
52) Ethylbenzene	9.03	91	507233	50.222	ug/L	99
53) m,p-Xylene	9.16	106	197907	50.704	ug/L	99
54) o-xylene	9.56	106	188630	51.045	ug/L	100
55) Styrene	9.58	104	336756	52.336	ug/L	96
56) Isopropylbenzene	9.95	105	498064	50.255	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.26	83	148000	49.451	ug/L	99
59) 1,2,3-Trichloropropane	10.29	75	130973	50.202	ug/L	99
61) Bromoform	9.75	173	93064	50.125	ug/L	97
62) 1,3-Dichlorobenzene	11.20	146	260180	49.738	ug/L	100
63) 1,4-Dichlorobenzene	11.30	146	268669	49.877	ug/L	98
65) 1,2-Dichlorobenzene	11.67	146	256648	49.594	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.45	75	33964	48.077	ug/L	97
67) 1,3,5-Trichlorobenzene	12.67	180	170447	47.039	ug/L	98
68) 1,2,4-trichlorobenzene	13.28	180	160381	47.566	ug/L	99
69) Naphthalene	13.52	128	480367	49.769	ug/L	100
70) 1,2,3-Trichlorobenzene	13.77	180	162879	48.121	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 50.330 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV018616.D

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MSVOA_V

ClientSampleId :

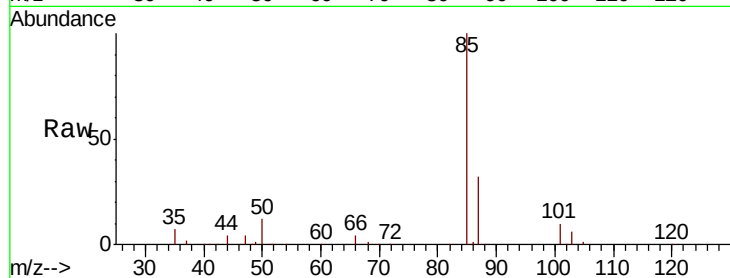
VSTD05099

Tot Ion: 85 Resp: 97321

Ion Ratio Lower Upper

85 100

87 31.9 25.5 38.3



Abundance Ion 85.00 (84.70 to 85.70): VV018595.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV018595.D (-7) (-)

1.14

100000

80000

60000

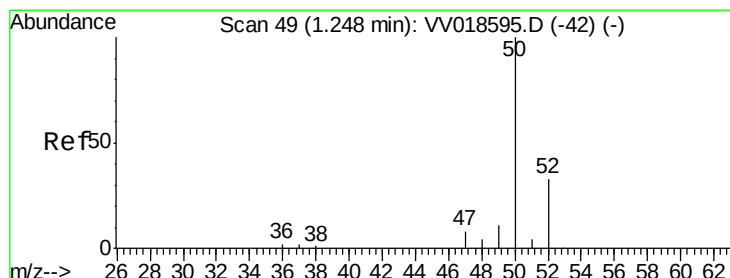
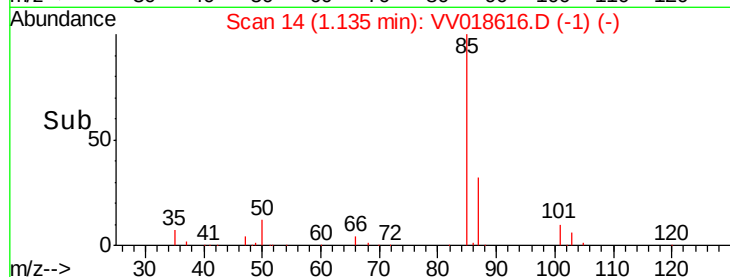
40000

20000

0

1.10 1.15 1.20

Time-->



#3

Chloromethane

Concen: 46.447 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV018616.D

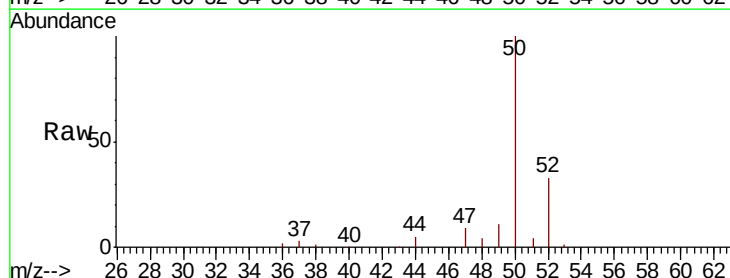
Acq: 02 Oct 2020 11:07

Tgt Ion: 50 Resp: 96100

Ion Ratio Lower Upper

50 100

52 33.2 22.7 42.1



Abundance Ion 50.00 (49.70 to 50.70): VV018595.D (-42) (-)

Ion 52.00 (51.70 to 52.70): VV018595.D (-42) (-)

1.25

100000

80000

60000

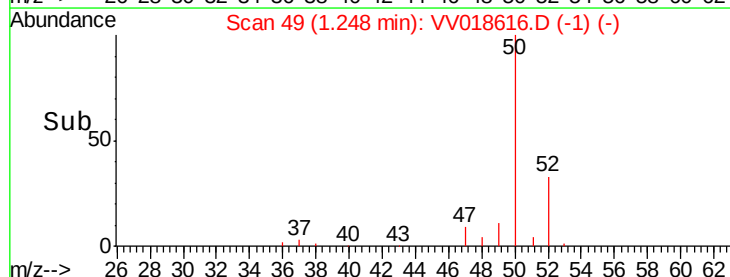
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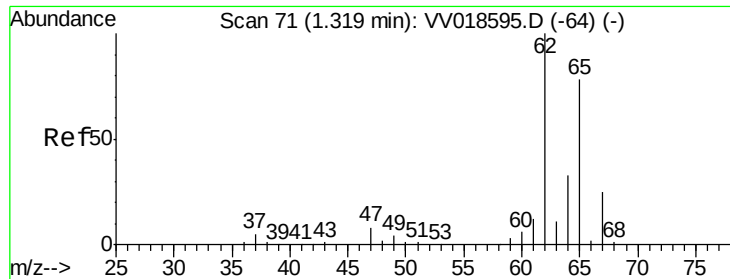
20000

0

1.20 1.25 1.30

Time-->





#5

Vinyl chloride

Concen: 48.556 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

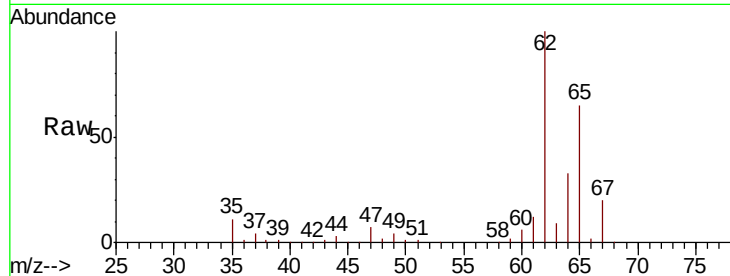
VSTD05099

Tot Ion: 62 Resp: 105627

Ion Ratio Lower Upper

62 100

64 32.9 22.9 42.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.32

120000

100000

80000

60000

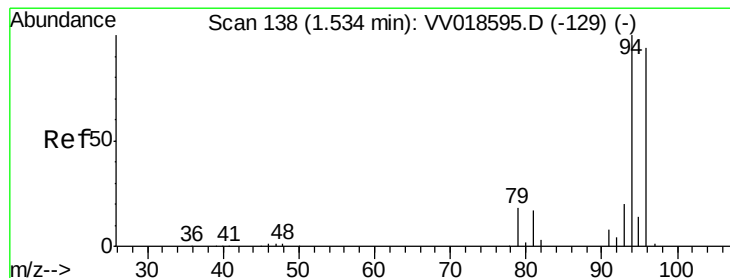
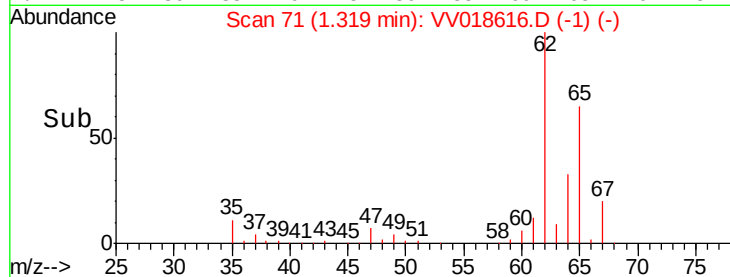
40000

20000

0

1.30 1.35 1.40

Time-->



#6

Bromomethane

Concen: 49.620 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV018616.D

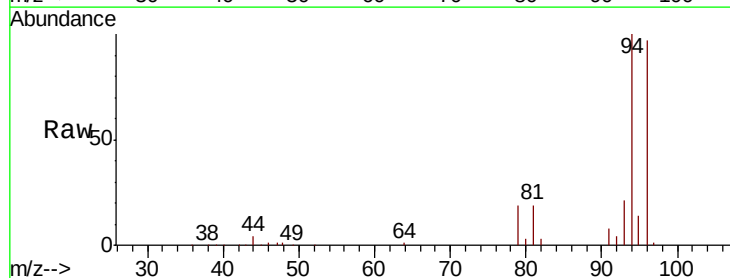
Acq: 02 Oct 2020 11:07

Tgt Ion: 94 Resp: 73466

Ion Ratio Lower Upper

94 100

96 96.7 67.5 125.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

60000

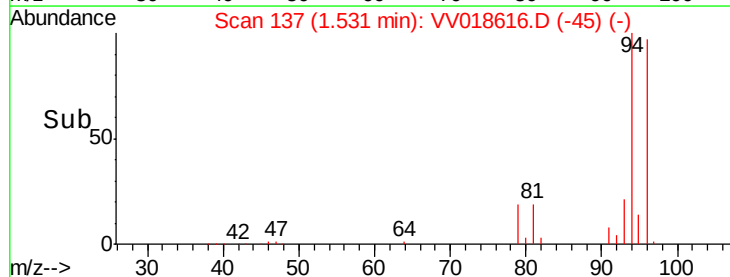
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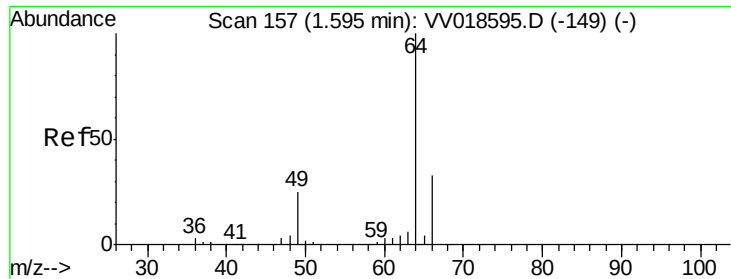
20000

0

1.50 1.55 1.60

Time-->





#8

Chloroethane

Concen: 52.623 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

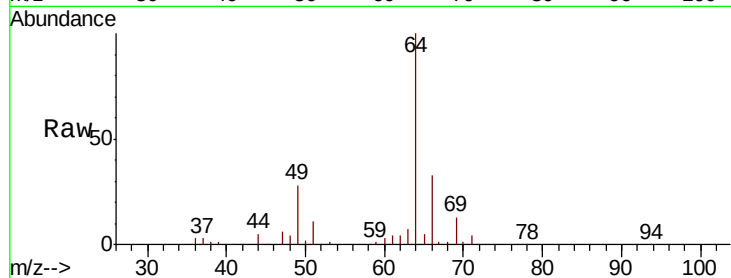
VSTD05099

Tot Ion: 64 Resp: 70543

Ion Ratio Lower Upper

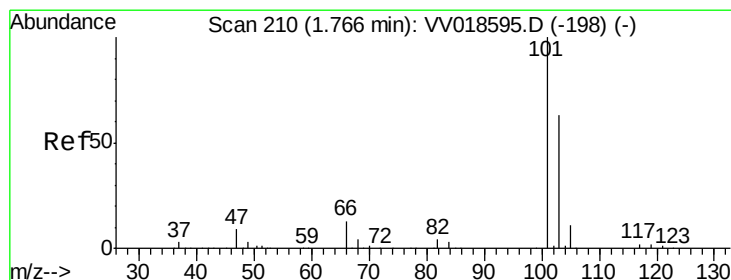
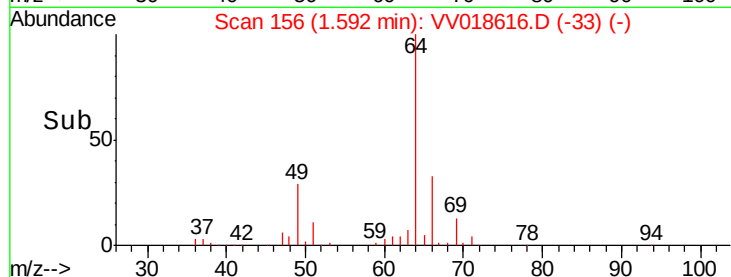
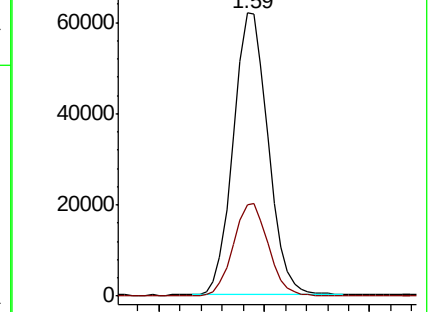
64 100

66 32.5 22.8 42.4



Abundance Ion 64.00 (63.70 to 64.70): VV018595.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV018595.D (-149) (-)



#9

Trichlorofluoromethane

Concen: 59.070 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV018616.D

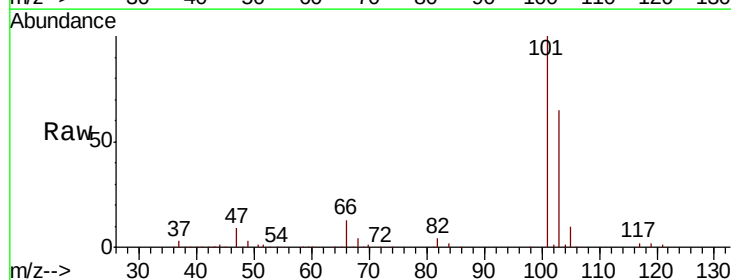
Acq: 02 Oct 2020 11:07

Tgt Ion: 101 Resp: 195300

Ion Ratio Lower Upper

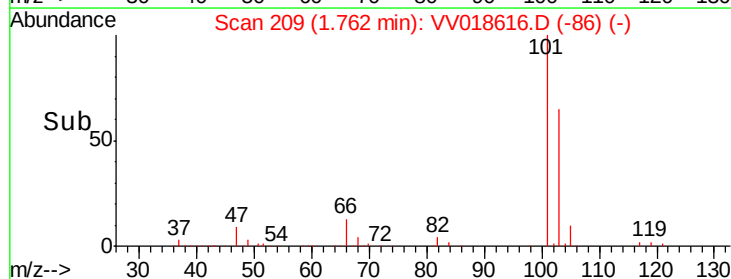
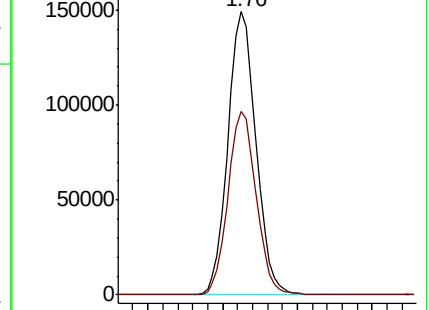
101 100

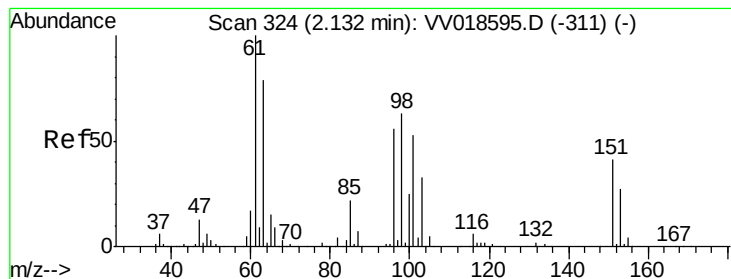
103 65.3 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VV018595.D (-198) (-)

Ion 103.00 (102.70 to 103.70): VV018595.D (-198) (-)





#10

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

Concen: 56.445 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD05099

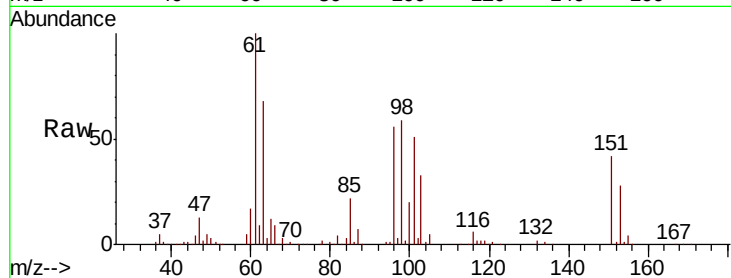
Tot Ion:101 Resp: 104450

Ion Ratio Lower Upper

101 100

85 43.9 34.6 52.0

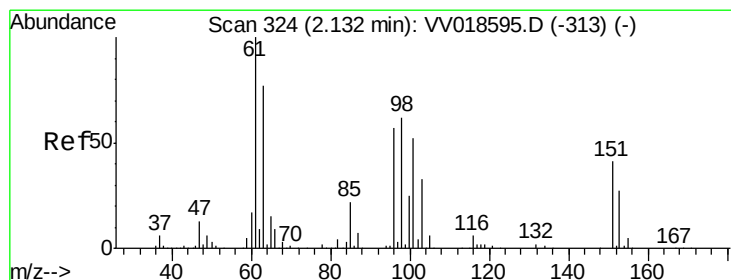
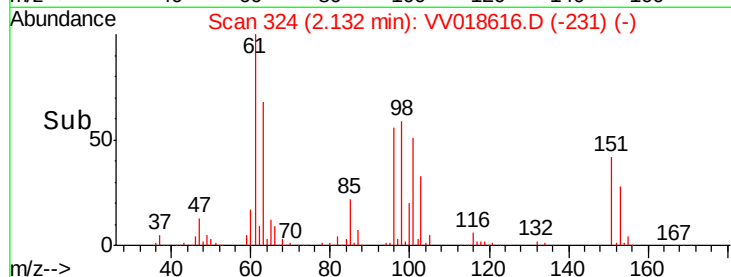
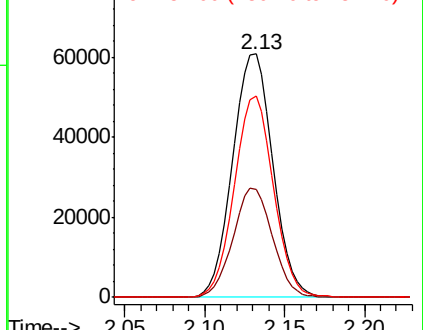
151 80.4 64.3 96.5



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: 55.302 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

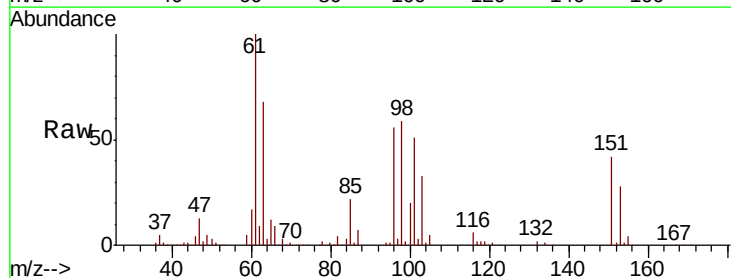
Tgt Ion: 96 Resp: 98177

Ion Ratio Lower Upper

96 100

61 177.9 122.8 228.1

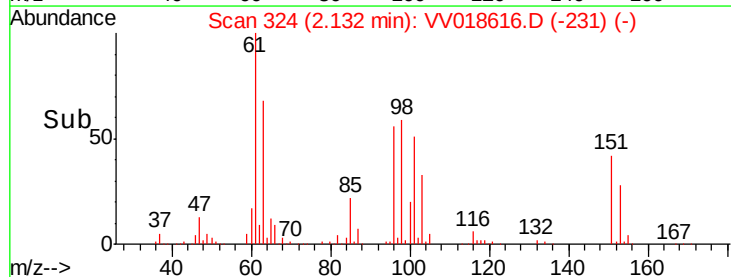
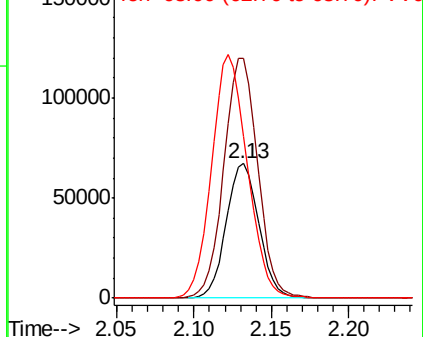
63 120.5 91.9 170.7

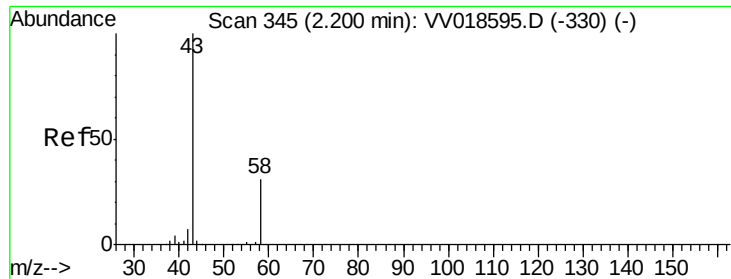


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 103.079 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.02 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

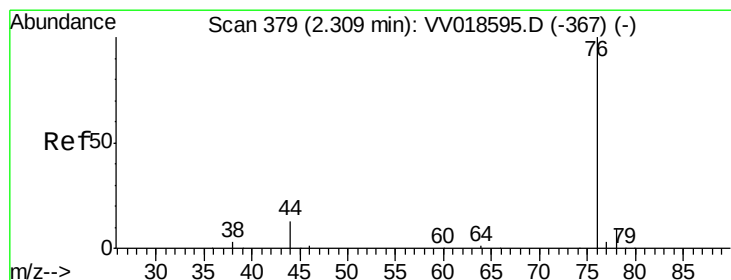
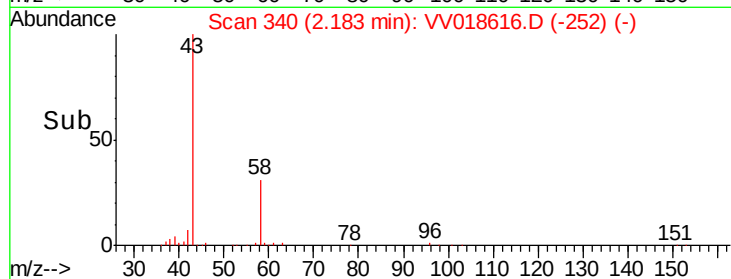
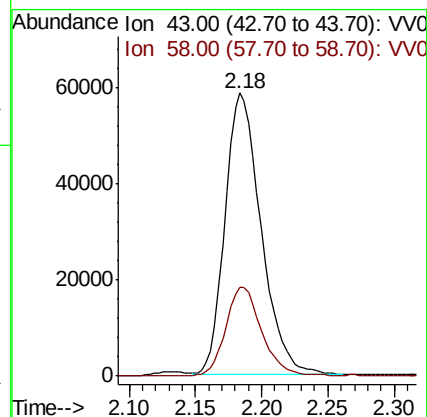
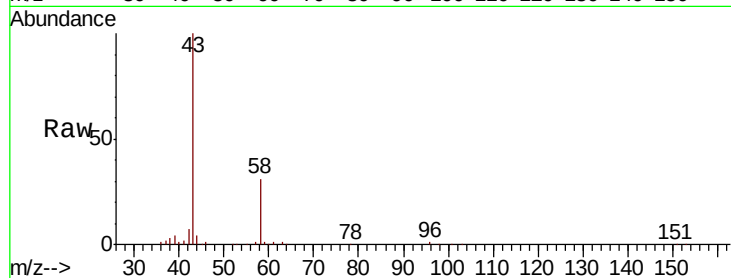
VSTD05099

Tot Ion: 43 Resp: 110793

Ion Ratio Lower Upper

43 100

58 31.1 0.0 64.0



#14

Carbon disulfide

Concen: 48.988 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV018616.D

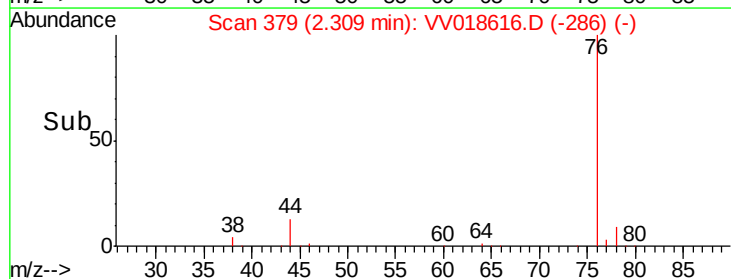
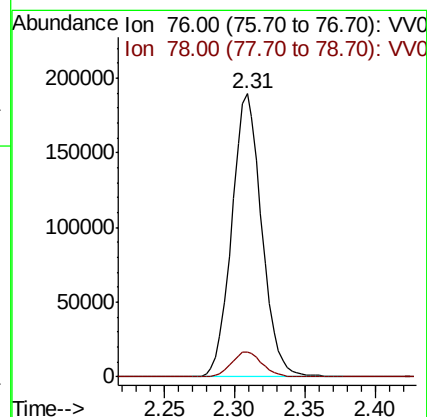
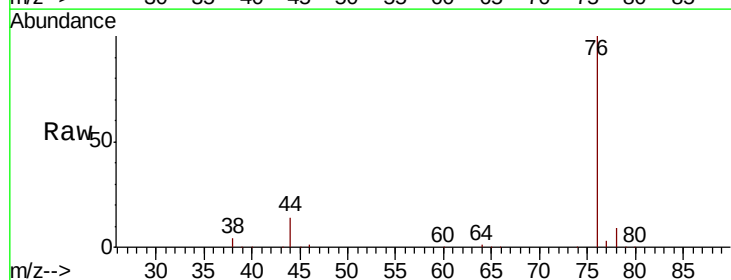
Acq: 02 Oct 2020 11:07

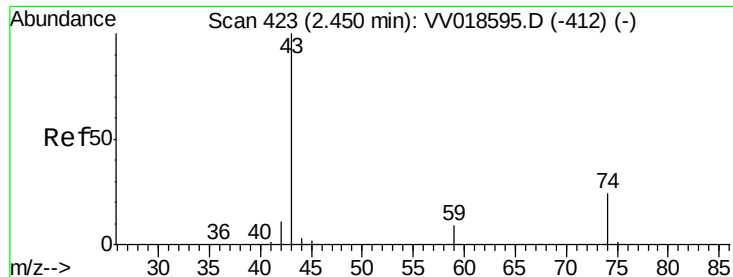
Tgt Ion: 76 Resp: 281725

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7





#15

Methvl Acetate

Concen: 47.607 ug/L

RT: 2.44 min Scan# 421

Delta R.T. -0.01 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

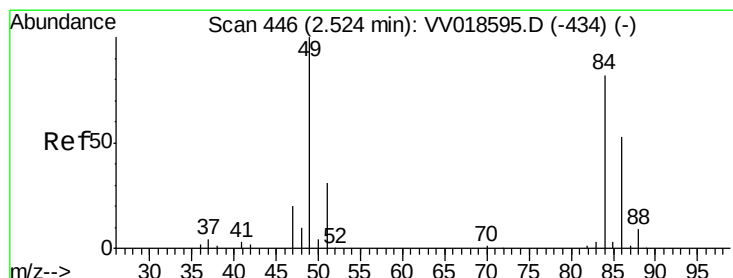
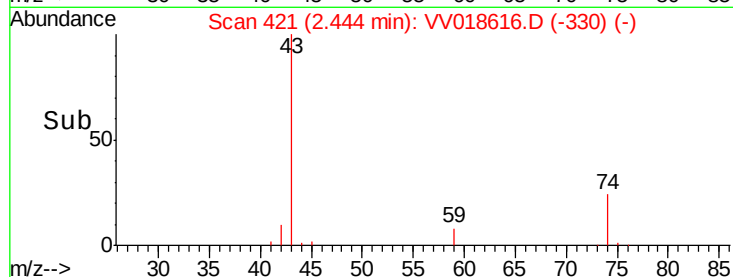
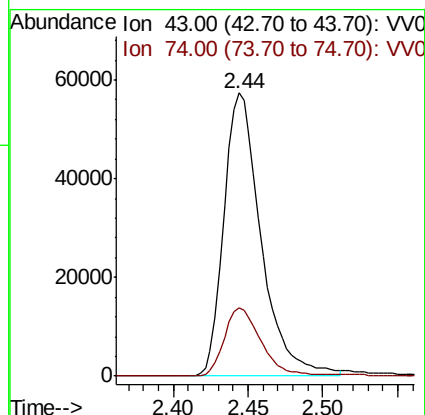
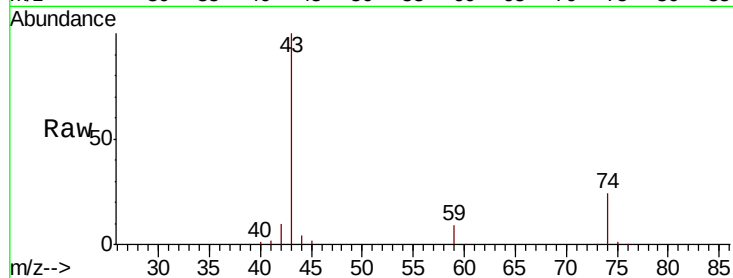
VSTD05099

Tot Ion: 43 Resp: 98580

Ion Ratio Lower Upper

43 100

74 23.9 19.2 28.8



#16

Methylene chloride

Concen: 50.172 ug/L

RT: 2.52 min Scan# 445

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

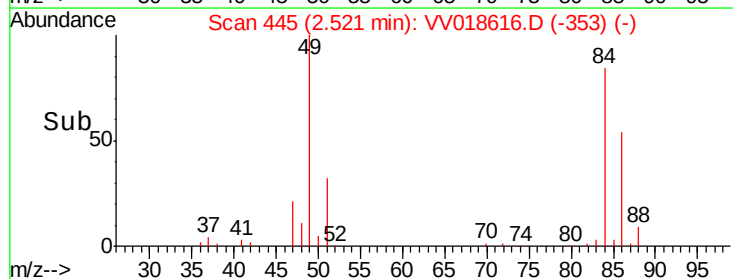
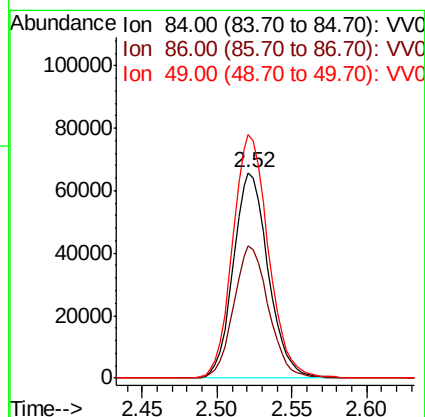
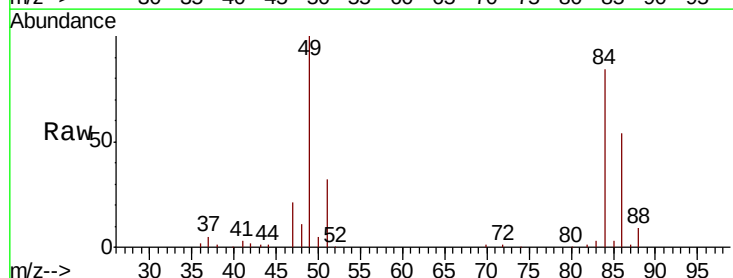
Tgt Ion: 84 Resp: 106902

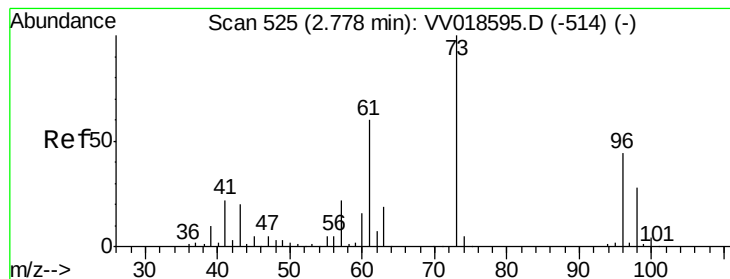
Ion Ratio Lower Upper

84 100

86 64.3 46.2 85.8

49 118.6 86.6 160.8





#17

trans-1,2-Dichloroethene

Concen: 50.163 ug/L

RT: 2.78 min Scan# 524

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampled :

VSTD05099

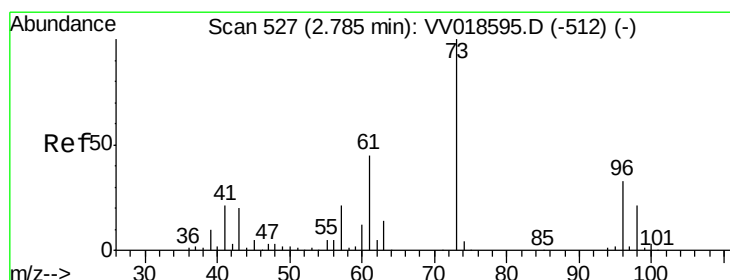
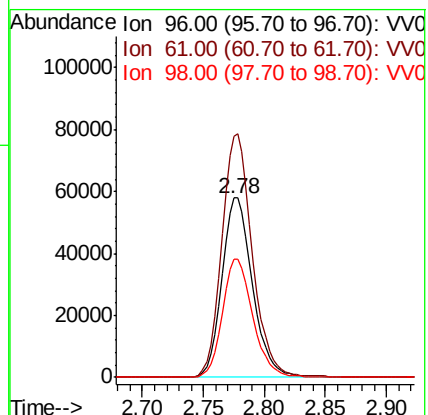
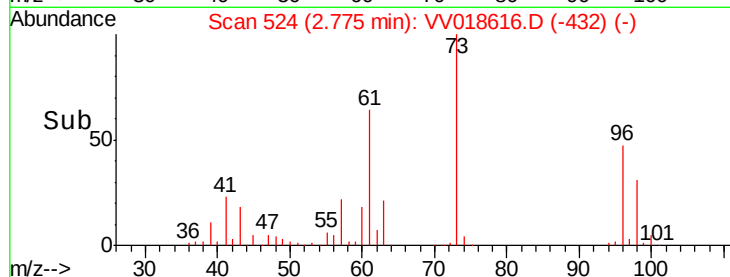
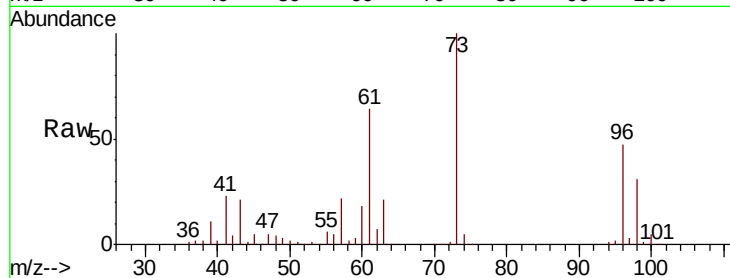
Tot Ion: 96 Resp: 101899

Ion Ratio Lower Upper

96 100

61 134.6 95.0 176.4

98 65.9 44.6 82.8



#18

Methyl tert-butyl Ether

Concen: 50.077 ug/L

RT: 2.78 min Scan# 527

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

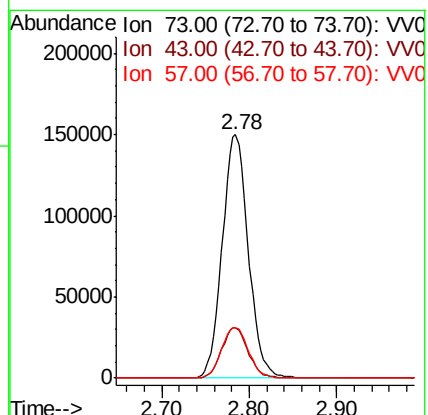
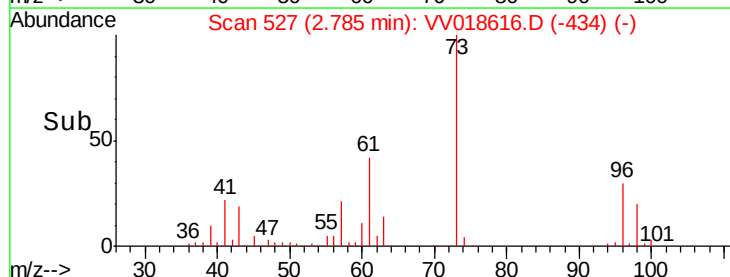
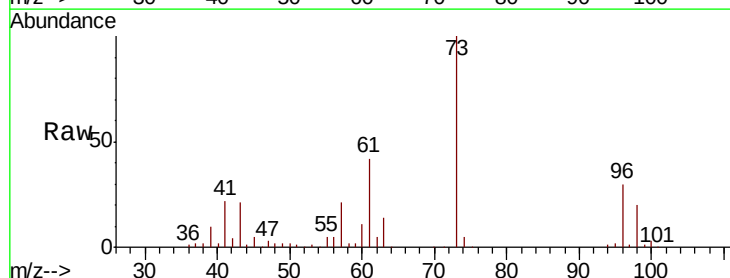
Tgt Ion: 73 Resp: 309940

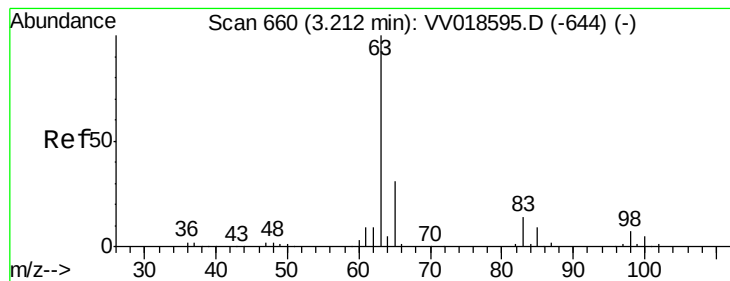
Ion Ratio Lower Upper

73 100

43 20.8 15.9 23.9

57 21.5 17.5 26.3





#19

1,1-Dichloroethane

Concen: 50.962 ug/L

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD05099

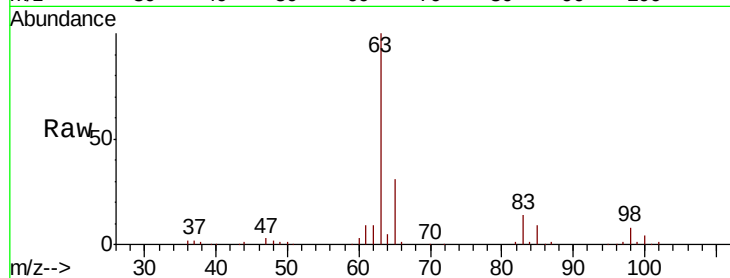
Tot Ion: 63 Resp: 181260

Ion Ratio Lower Upper

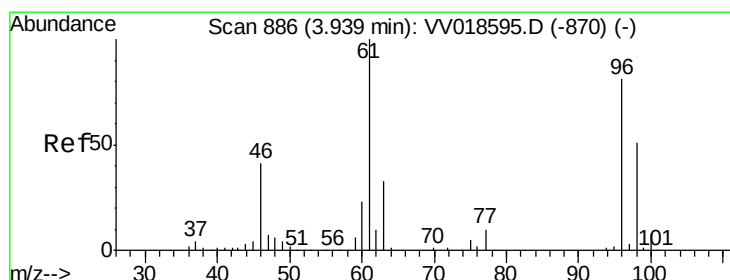
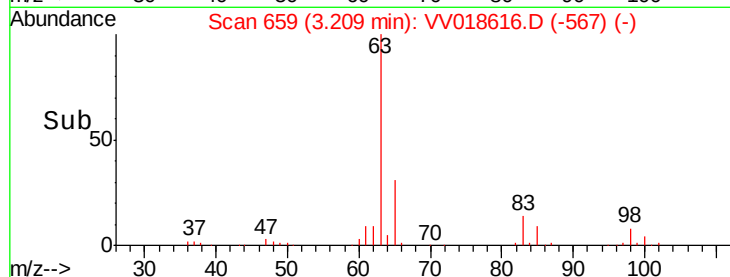
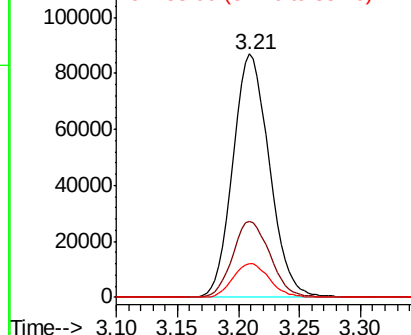
63 100

65 31.3 22.3 41.3

83 13.9 9.3 17.3



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: 50.853 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

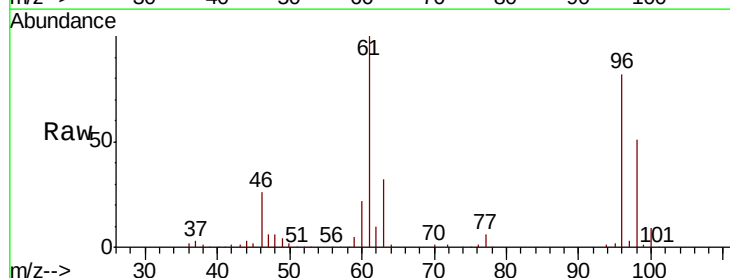
Tgt Ion: 96 Resp: 109784

Ion Ratio Lower Upper

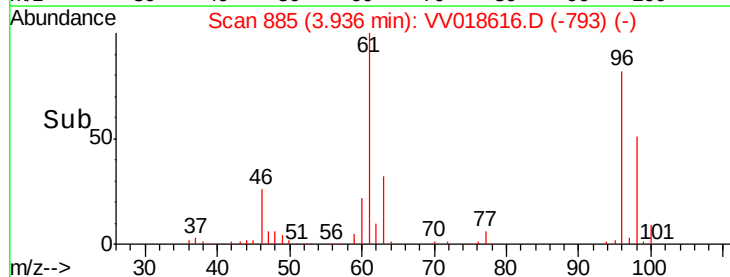
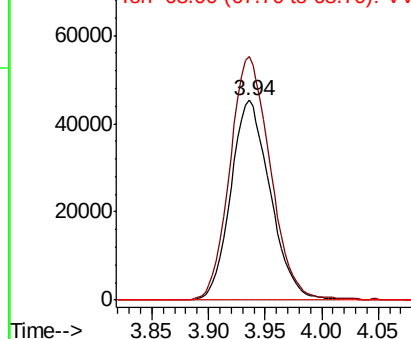
96 100

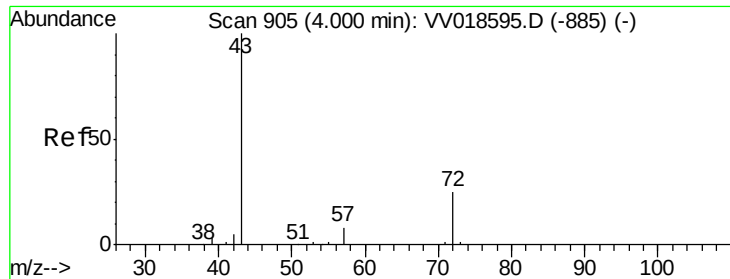
61 121.8 86.8 161.2

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: 101.340 ug/L

RT: 3.99 min Scan# 901

Delta R.T. -0.01 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

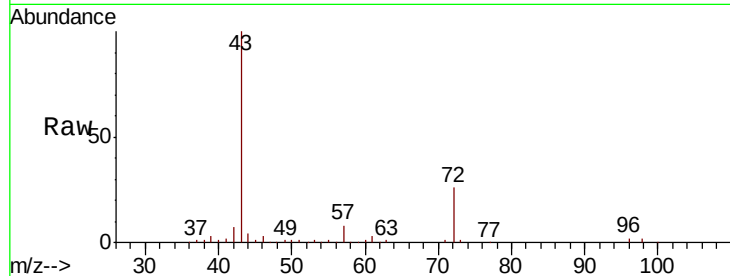
VSTD05099

Tot Ion: 43 Resp: 137600

Ion Ratio Lower Upper

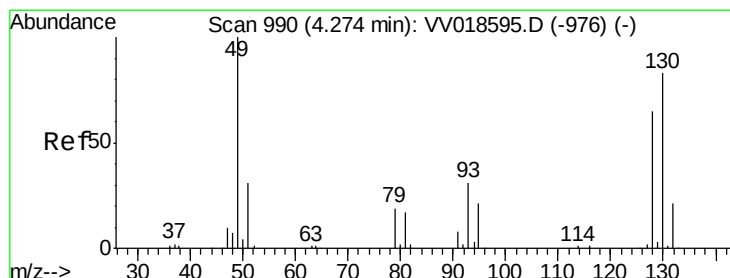
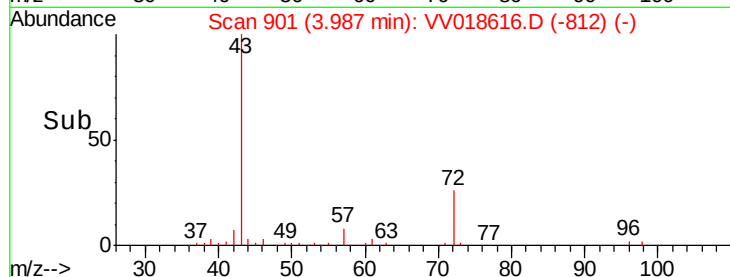
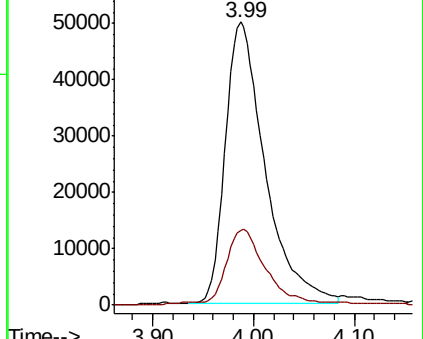
43 100

72 25.9 12.1 36.3



Abundance Ion 43.00 (42.70 to 43.70): VV018595.D (-885) (-)

Ion 72.00 (71.70 to 72.70): VV018595.D (-885) (-)



#23

Bromochloromethane

Concen: 50.997 ug/L

RT: 4.27 min Scan# 990

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Tgt Ion:128 Resp: 60541

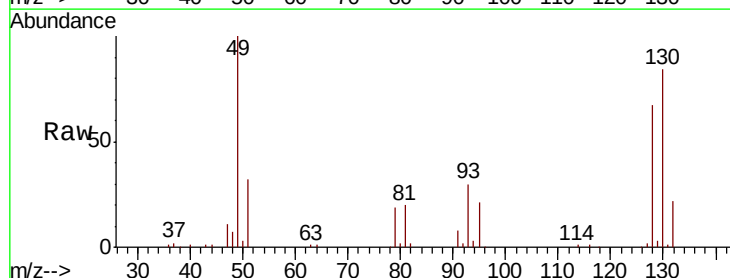
Ion Ratio Lower Upper

128 100

49 148.3 105.1 195.1

130 125.2 90.0 167.2

51 47.2 38.6 57.8

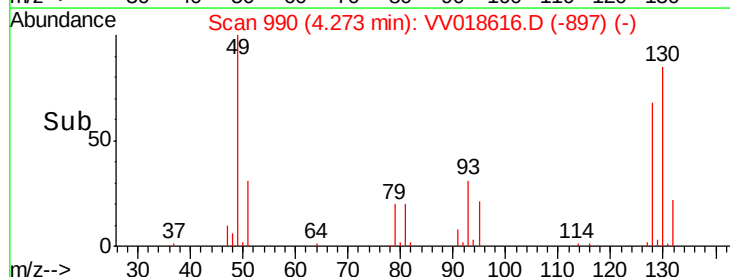
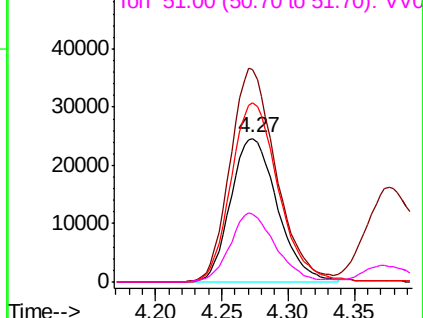


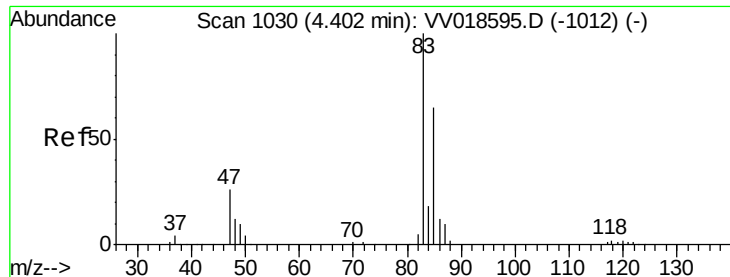
Abundance Ion 128.00 (127.70 to 128.70): VV018595.D (-976) (-)

Ion 49.00 (48.70 to 49.70): VV018595.D (-976) (-)

Ion 130.00 (129.70 to 130.70): VV018595.D (-976) (-)

Ion 51.00 (50.70 to 51.70): VV018595.D (-976) (-)

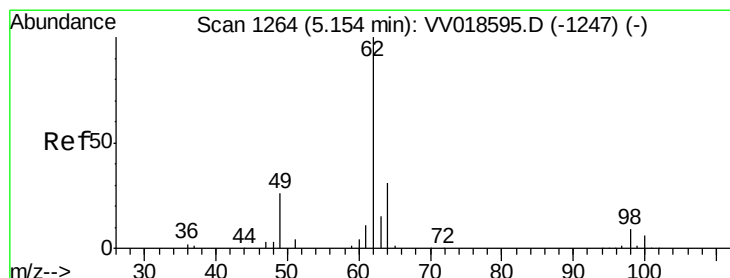
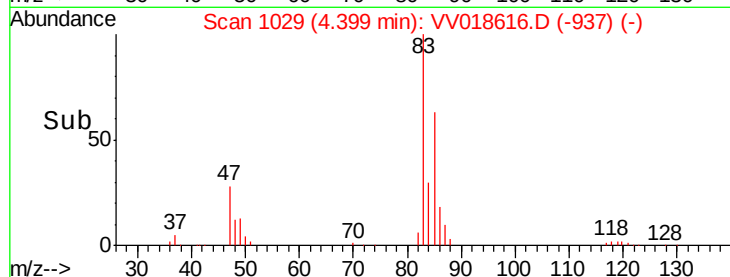
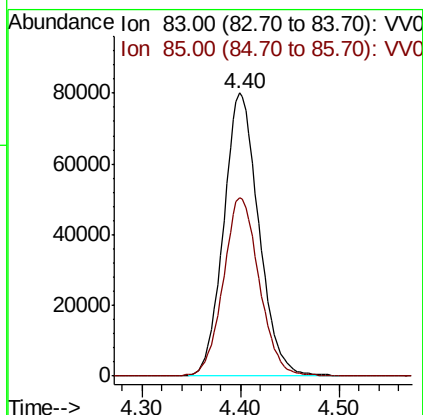
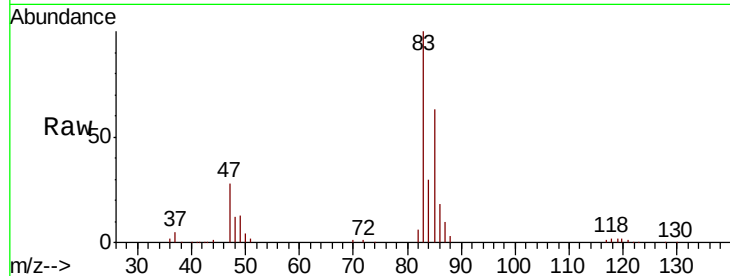




#25
Chloroform
Concen: 52.922 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. -0.00 min
Lab File: VV018616.D
Acq: 02 Oct 2020 11:07

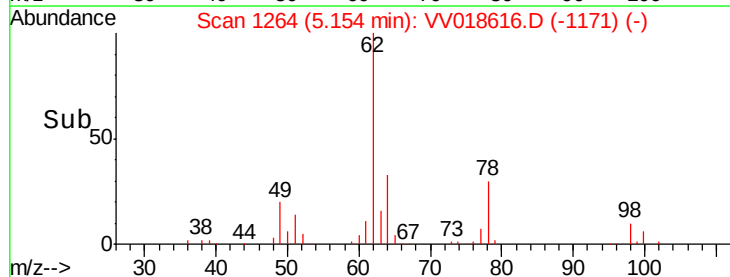
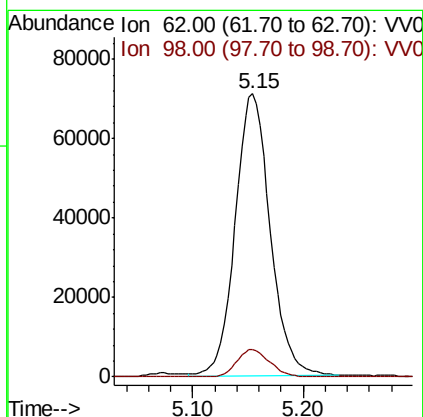
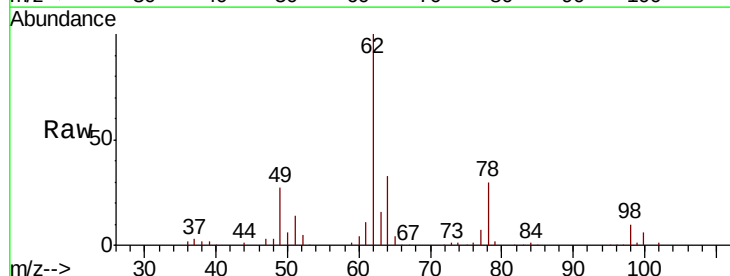
Instrument :
MSVOA_V
ClientSampleId :
VSTD05099

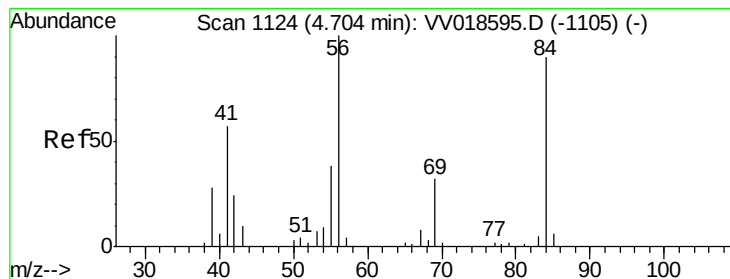
Tot Ion: 83 Resp: 198754
Ion Ratio Lower Upper
83 100
85 63.3 46.2 85.8



#27
1,2-Dichloroethane
Concen: 53.139 ug/L
RT: 5.15 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VV018616.D
Acq: 02 Oct 2020 11:07

Tgt Ion: 62 Resp: 155552
Ion Ratio Lower Upper
62 100
98 9.7 7.7 11.5





#29

Cyclohexane

Concen: 46.903 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD05099

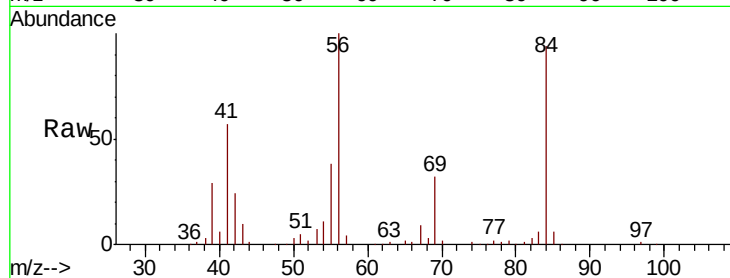
Tot Ion: 56 Resp: 152223

Ion Ratio Lower Upper

56 100

69 31.6 24.8 37.2

84 91.9 72.2 108.4

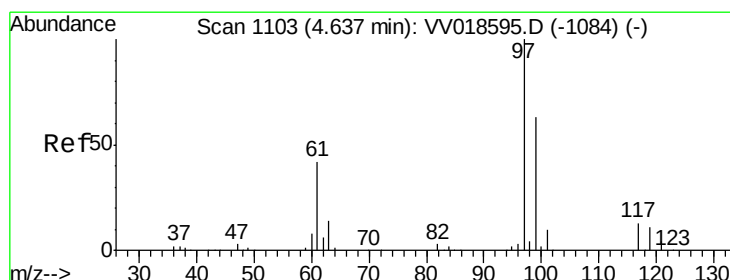
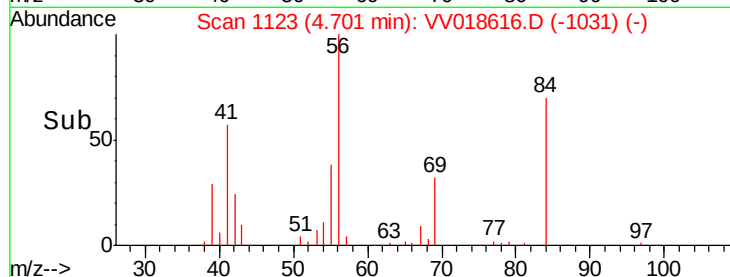
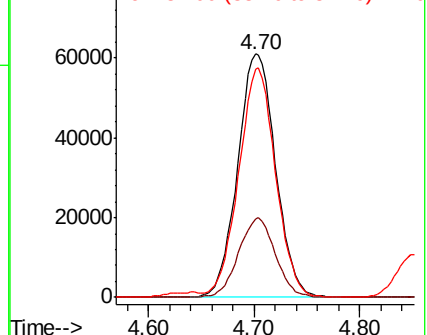


Abundance

Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 51.296 ug/L

RT: 4.63 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

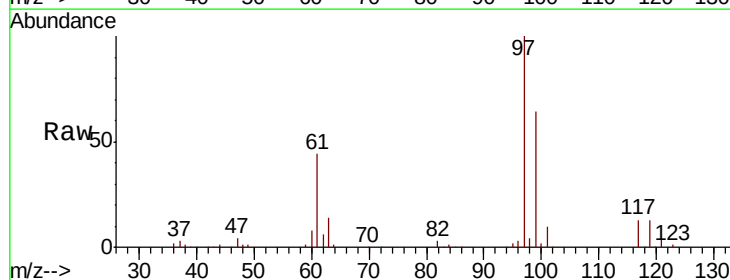
Tgt Ion: 97 Resp: 181215

Ion Ratio Lower Upper

97 100

99 64.1 51.4 77.0

61 44.2 33.9 50.9

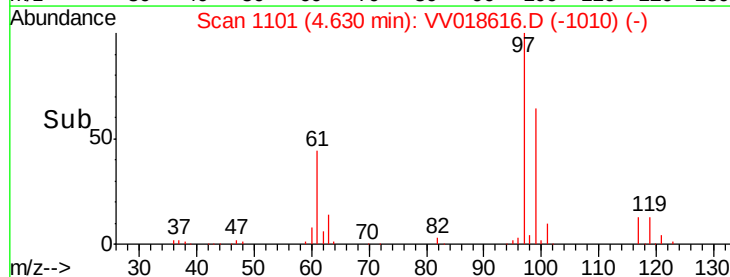
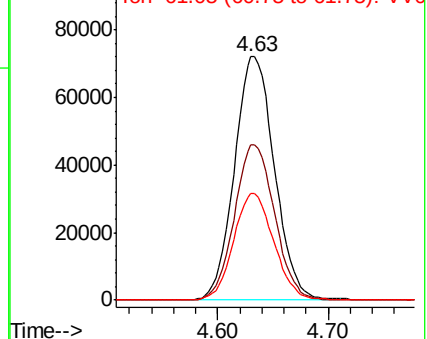


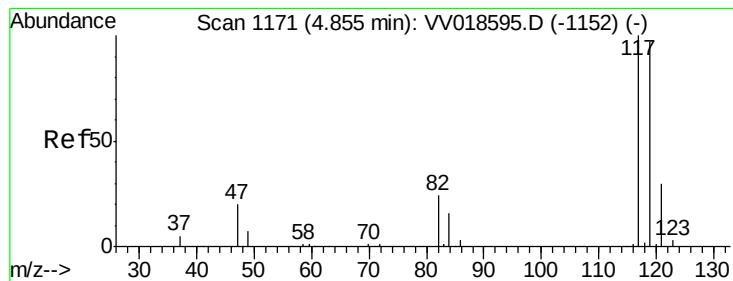
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 51.983 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

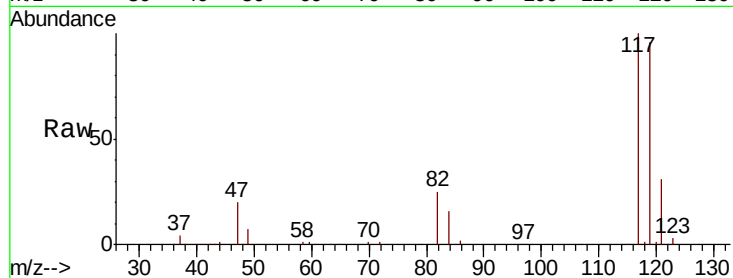
VSTD05099

Tot Ion:117 Resp: 164813

Ion Ratio Lower Upper

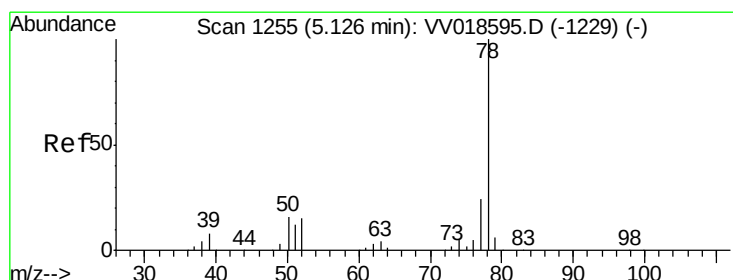
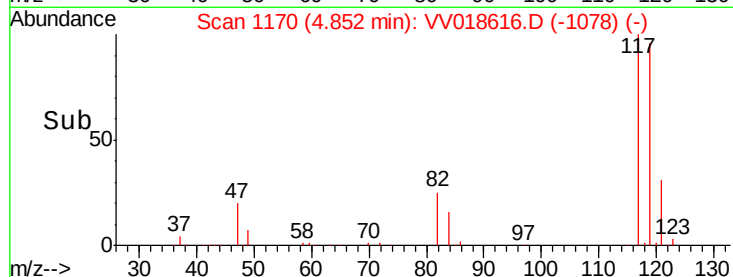
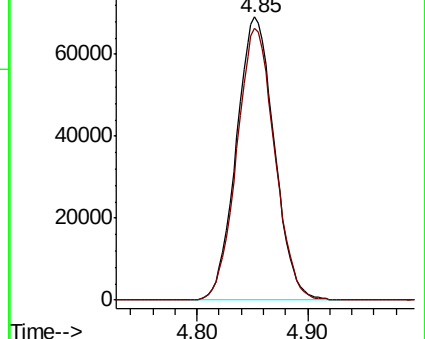
117 100

119 95.6 77.0 115.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 49.061 ug/L

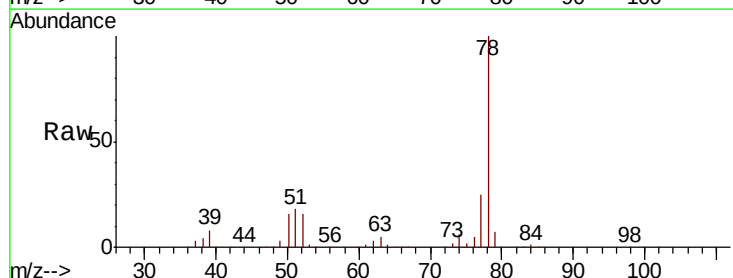
RT: 5.12 min Scan# 1254

Delta R.T. -0.00 min

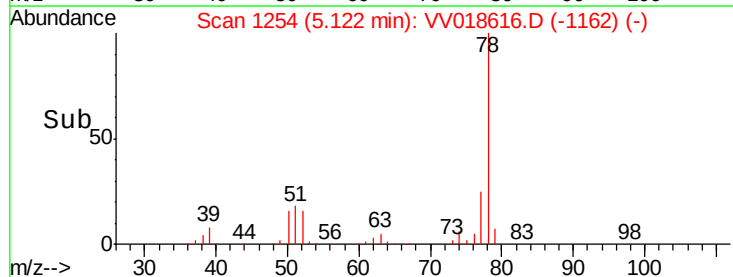
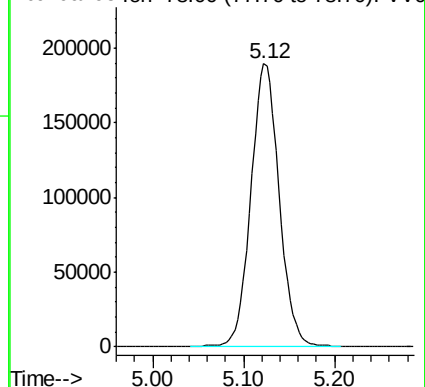
Lab File: VV018616.D

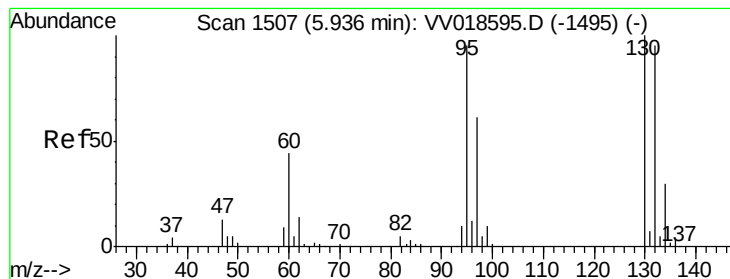
Acq: 02 Oct 2020 11:07

Tgt Ion: 78 Resp: 410149



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 48.943 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD05099

Tot Ion: 95 Resp: 118787

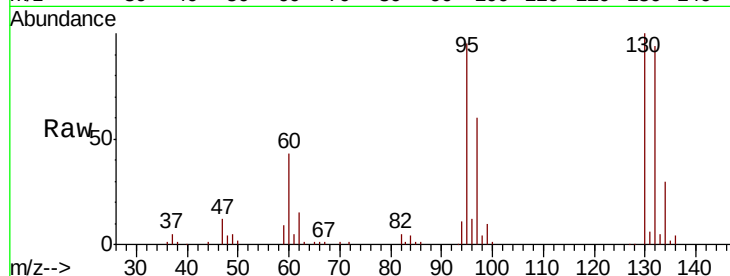
Ion Ratio Lower Upper

95 100

97 63.8 45.9 85.3

132 99.7 70.8 131.4

130 105.7 75.3 139.8

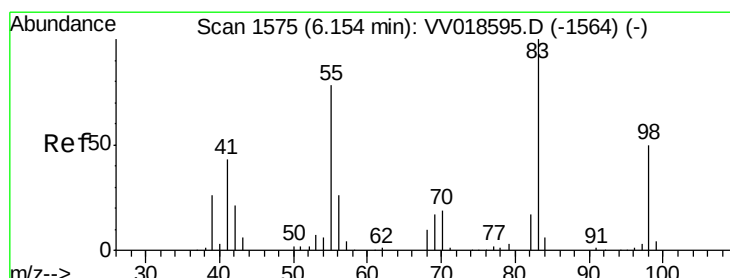
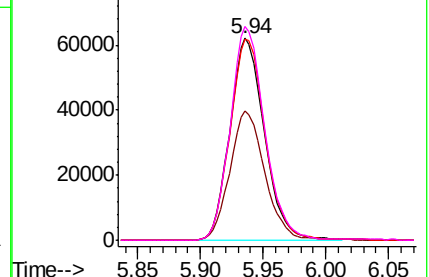
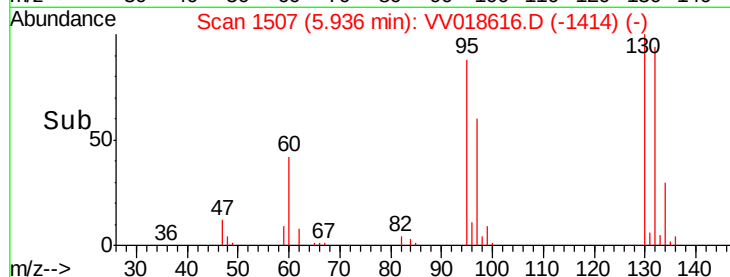


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 46.723 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

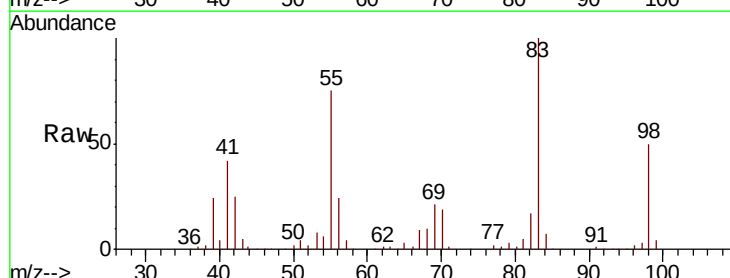
Tgt Ion: 83 Resp: 152973

Ion Ratio Lower Upper

83 100

55 75.2 60.1 90.1

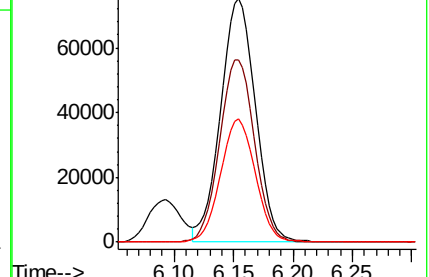
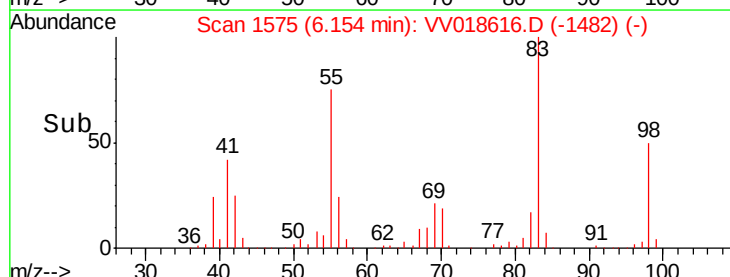
98 50.5 40.2 60.4

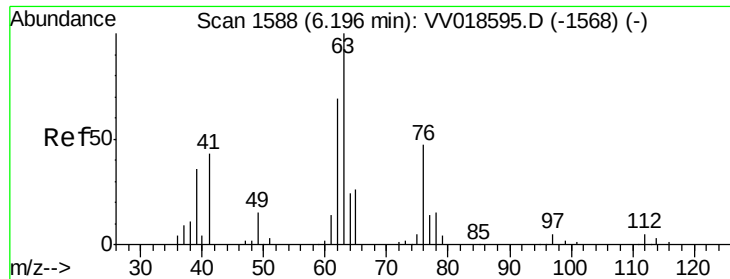


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

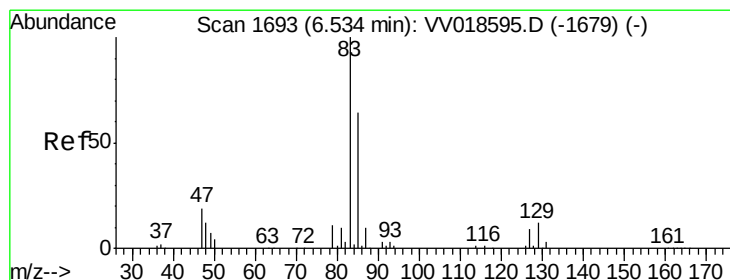
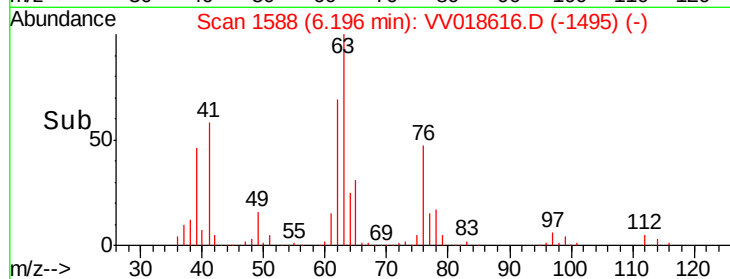
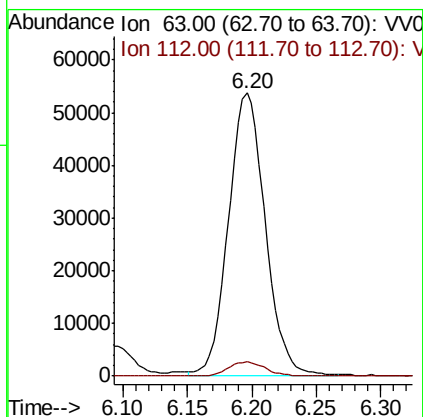
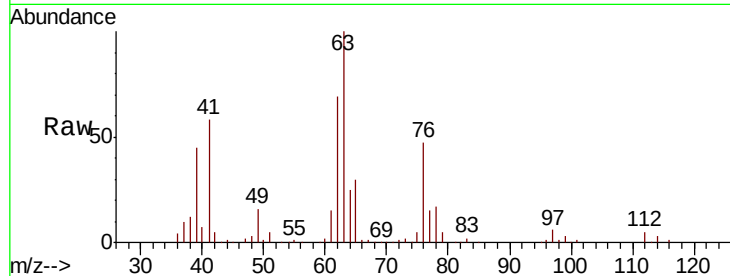




#37
 1,2-Dichloropropane
 Concen: 49.868 ug/L
 RT: 6.20 min Scan# 1588
 Delta R.T. -0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

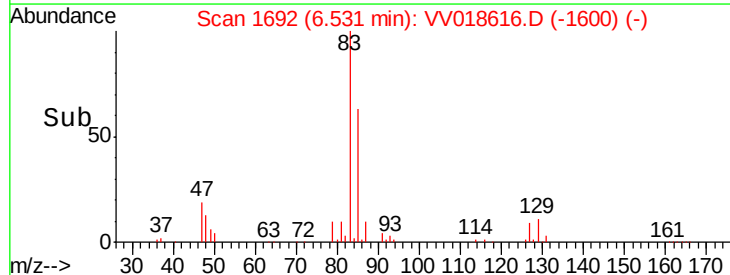
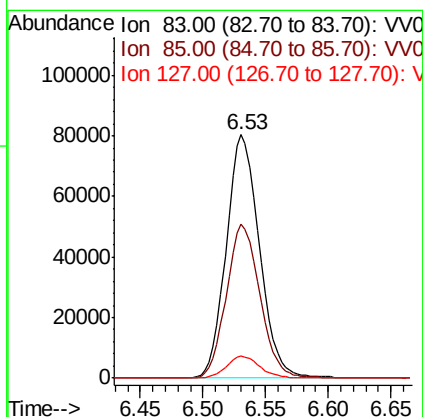
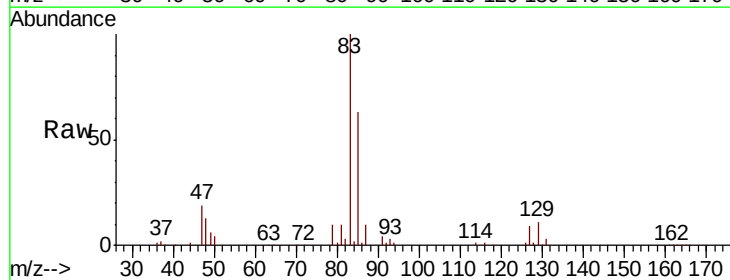
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05099

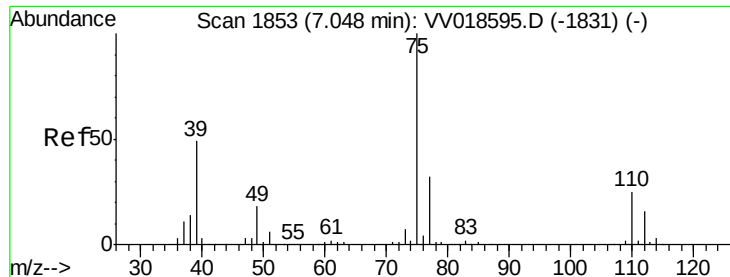
Tot Ion: 63 Resp: 106958
 Ion Ratio Lower Upper
 63 100
 112 5.2 3.9 5.9



#38
 Bromodichloromethane
 Concen: 51.446 ug/L
 RT: 6.53 min Scan# 1692
 Delta R.T. -0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

Tgt Ion: 83 Resp: 147775
 Ion Ratio Lower Upper
 83 100
 85 63.0 44.5 82.7
 127 9.0 7.2 10.8

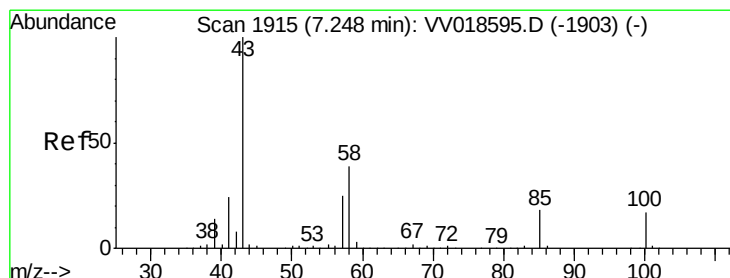
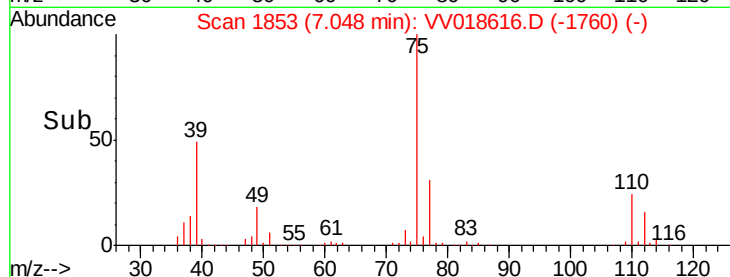
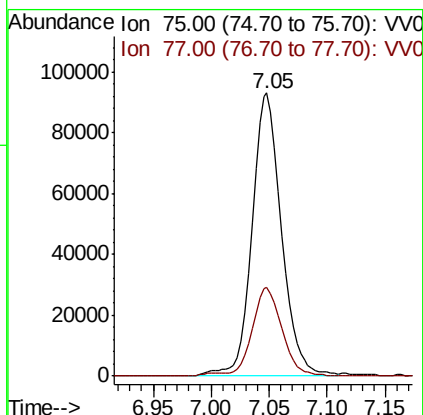
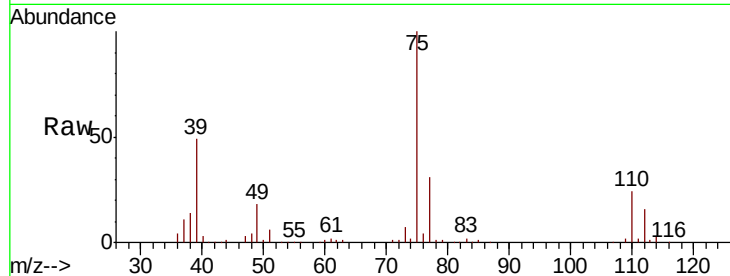




#39
 cis-1,3-Dichloropropene
 Concen: 49.384 ug/L
 RT: 7.05 min Scan# 1853
 Delta R.T. -0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

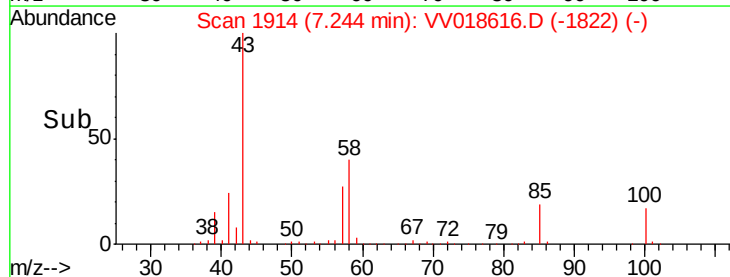
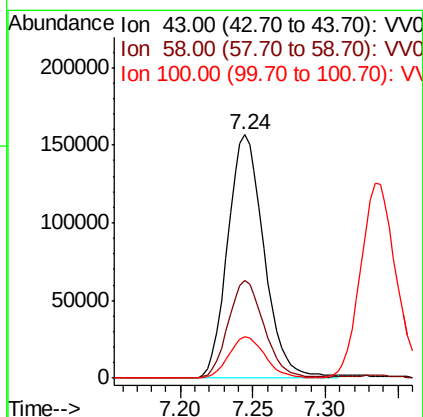
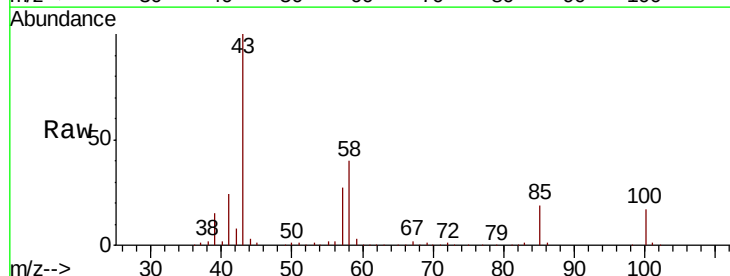
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05099

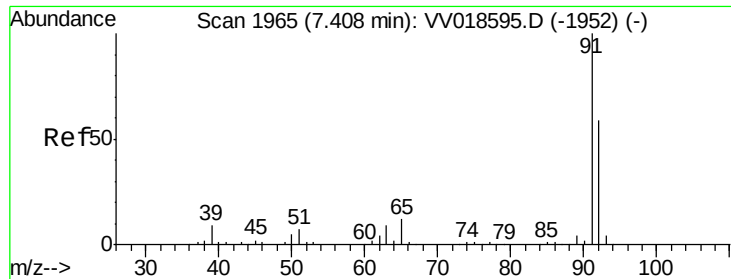
Tot Ion: 75 Resp: 166184
 Ion Ratio Lower Upper
 75 100
 77 31.2 23.0 42.6



#40
 4-Methyl-2-pentanone
 Concen: 98.348 ug/L
 RT: 7.24 min Scan# 1914
 Delta R.T. -0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

Tgt Ion: 43 Resp: 272190
 Ion Ratio Lower Upper
 43 100
 58 39.8 31.8 47.6
 100 17.0 13.4 20.0





#42

Toluene

Concen: 50.666 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

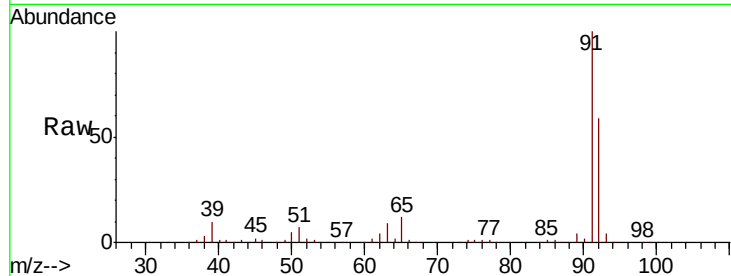
VSTD05099

Tot Ion: 91 Resp: 458212

Ion Ratio Lower Upper

91 100

92 59.1 41.6 77.3



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 92.00 (91.70 to 92.70): VV0

7.41

300000

250000

200000

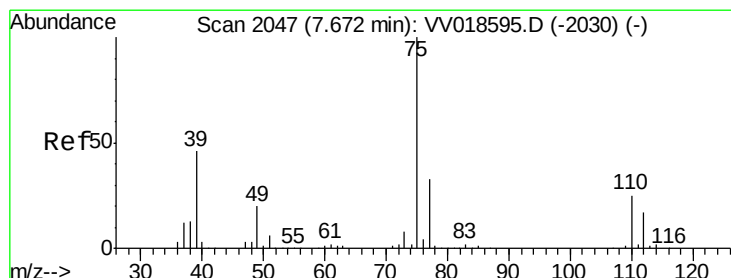
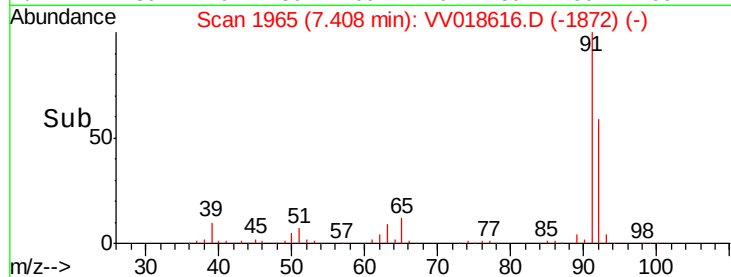
150000

100000

50000

0

Time--> 7.30 7.35 7.40 7.45 7.50



#44

trans-1,3-Dichloropropene

Concen: 51.704 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VV018616.D

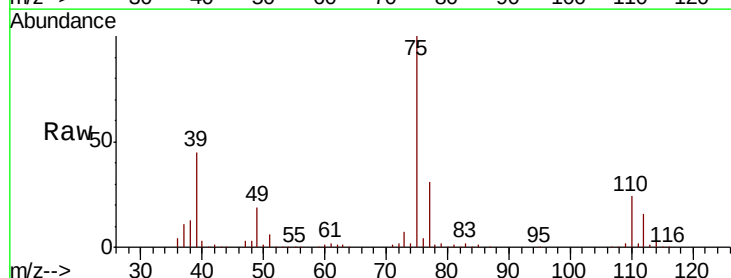
Acq: 02 Oct 2020 11:07

Tgt Ion: 75 Resp: 170917

Ion Ratio Lower Upper

75 100

77 31.4 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

7.67

100000

80000

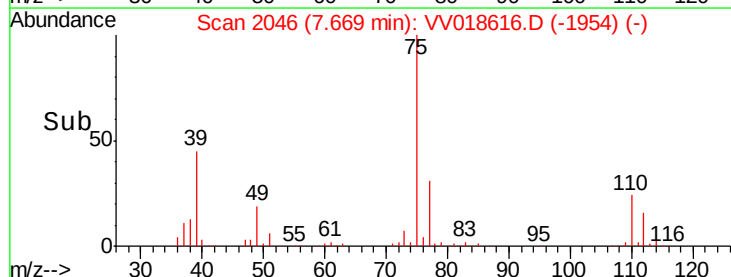
60000

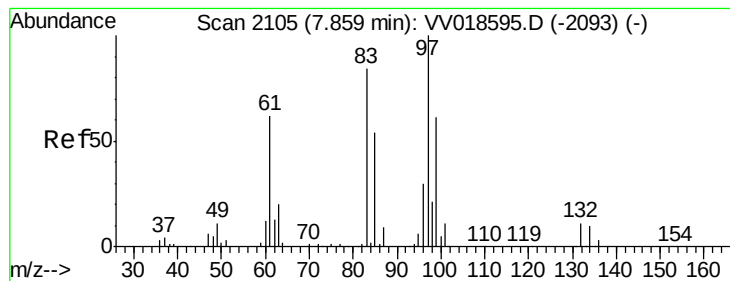
40000

20000

0

Time--> 7.60 7.70 7.80





#45

1,1,2-Trichloroethane

Concen: 49.857 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD05099

Tot Ion: 97 Resp: 105860

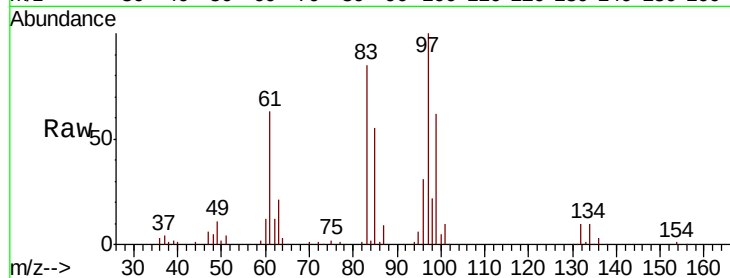
Ion Ratio Lower Upper

97 100

99 62.3 43.3 80.3

83 84.6 60.5 112.5

85 54.5 38.3 71.1



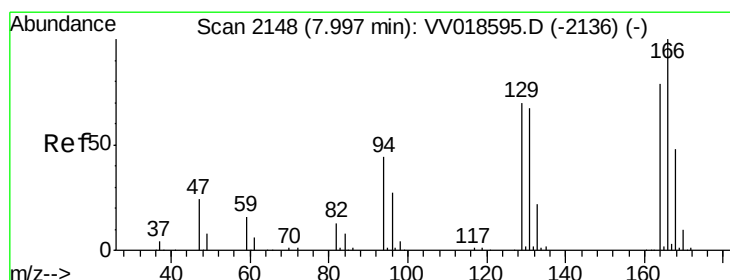
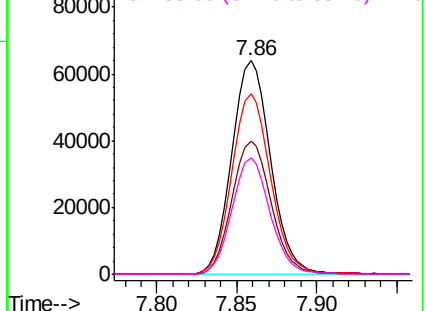
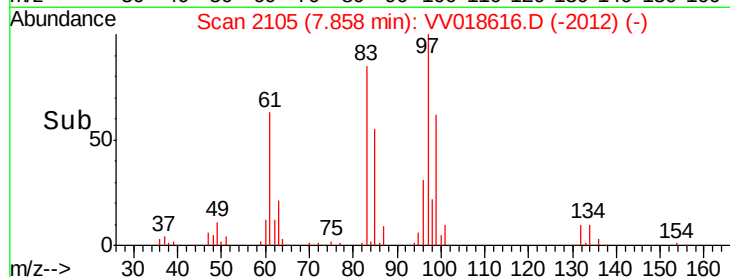
Abundance

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: 49.947 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Tgt Ion: 164 Resp: 98346

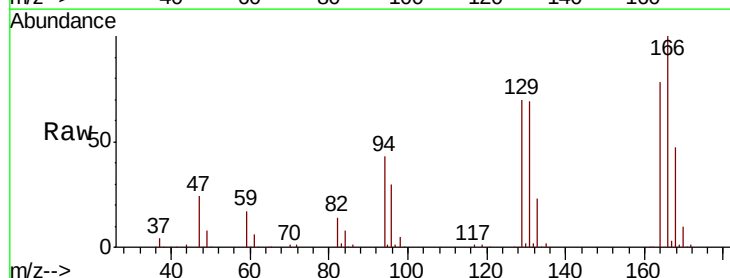
Ion Ratio Lower Upper

164 100

129 89.5 62.8 116.6

131 88.8 60.8 112.8

166 127.9 88.9 165.1



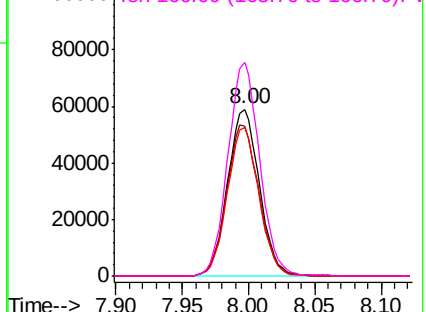
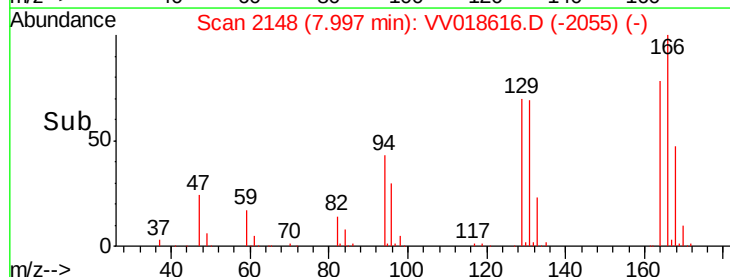
Abundance

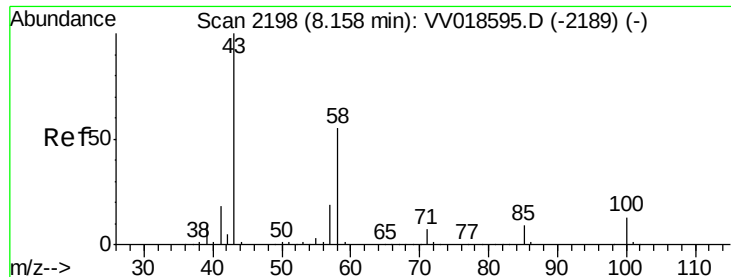
Ion 164.00 (163.70 to 164.70): V

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

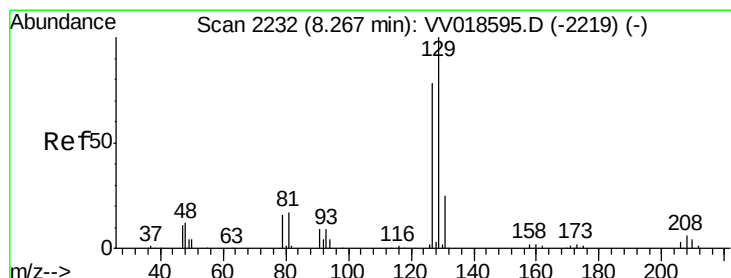
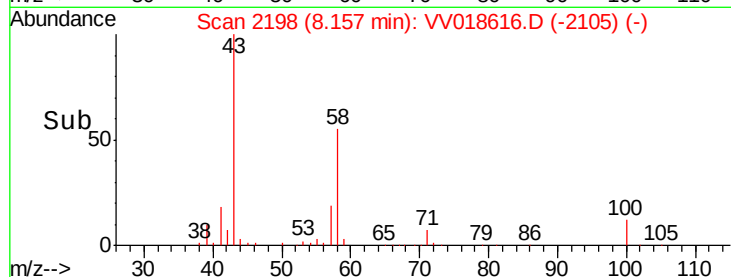
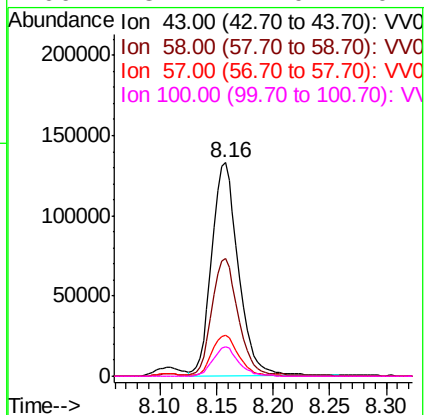
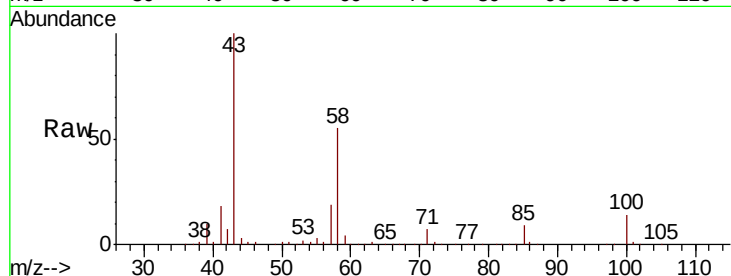




#48
2-Hexanone
Concen: 100.618 ug/L
RT: 8.16 min Scan# 2198
Delta R.T. -0.00 min
Lab File: VV018616.D
Acq: 02 Oct 2020 11:07

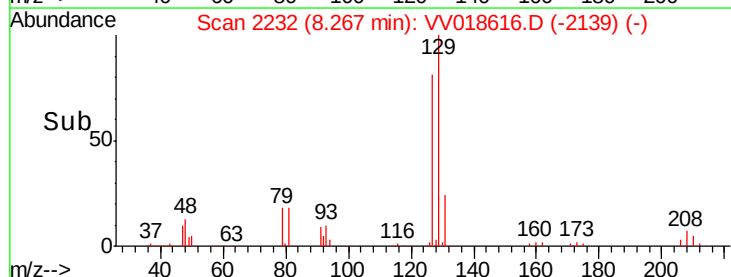
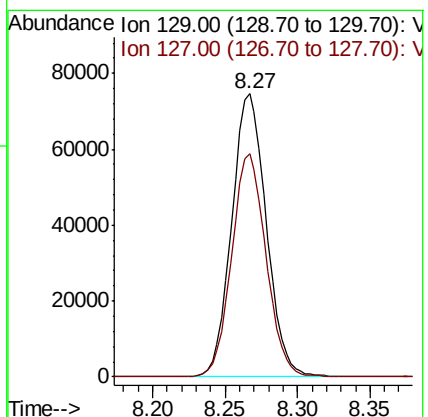
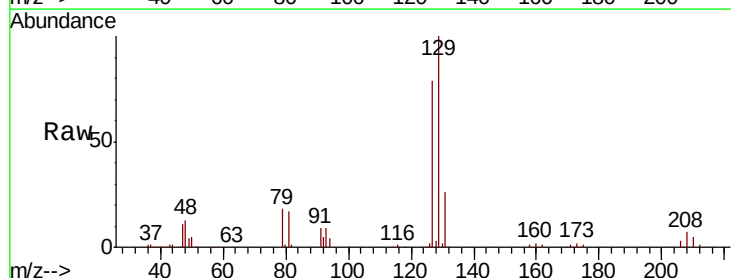
Instrument :
MSVOA_V
ClientSampleId :
VSTD05099

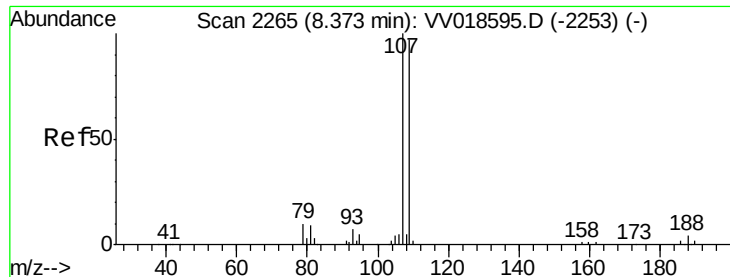
Tot Ion: 43 Resp: 217277
Ion Ratio Lower Upper
43 100
58 54.8 45.1 67.7
57 19.3 15.7 23.5
100 13.4 11.0 16.4



#49
Dibromochloromethane
Concen: 51.095 ug/L
RT: 8.27 min Scan# 2232
Delta R.T. -0.00 min
Lab File: VV018616.D
Acq: 02 Oct 2020 11:07

Tgt Ion: 129 Resp: 124086
Ion Ratio Lower Upper
129 100
127 78.8 54.1 100.5

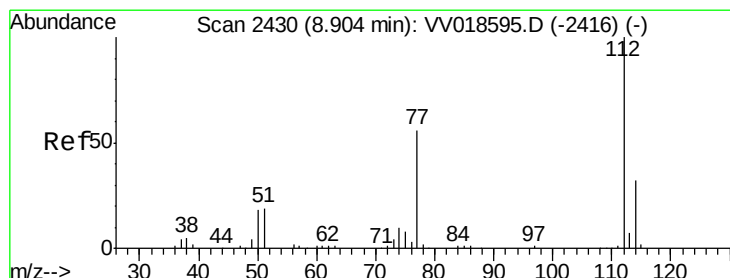
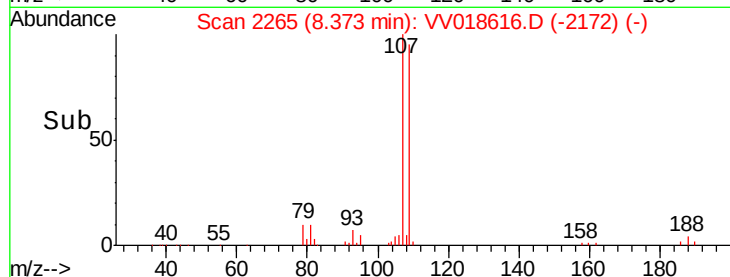
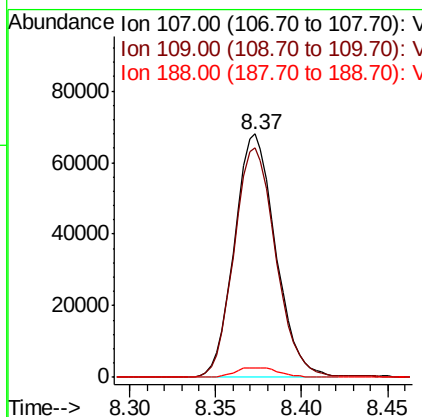
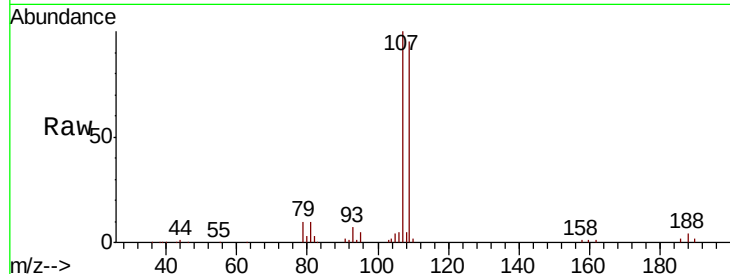




#50
1,2-Dibromoethane
Concen: 50.117 ug/L
RT: 8.37 min Scan# 2265
Delta R.T. -0.00 min
Lab File: VV018616.D
Acq: 02 Oct 2020 11:07

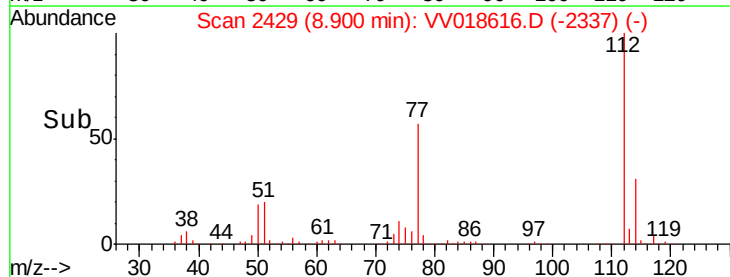
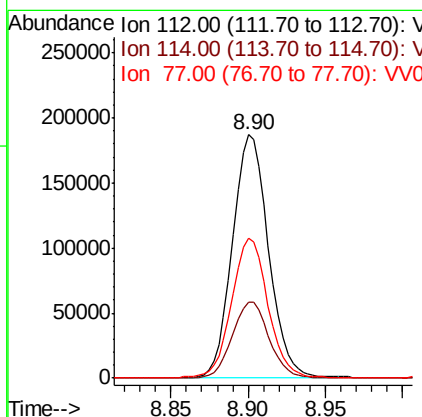
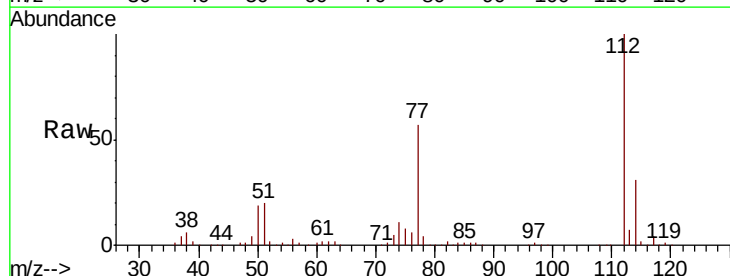
Instrument :
MSVOA_V
ClientSampleId :
VSTD05099

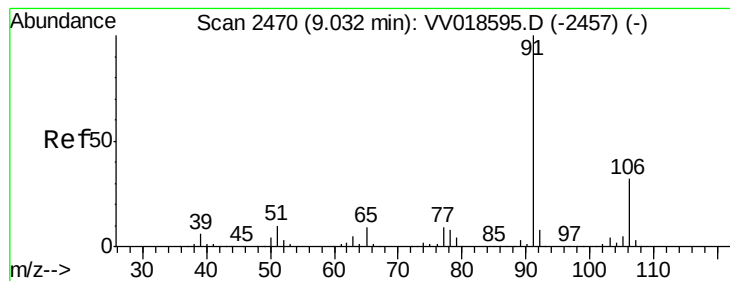
Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	65.1	120.9
188	4.0	3.7	5.5



#51
Chlorobenzene
Concen: 49.515 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. -0.00 min
Lab File: VV018616.D
Acq: 02 Oct 2020 11:07

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.3	22.4	41.6
77	57.4	44.8	67.2





#52

Ethylbenzene

Concen: 50.222 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

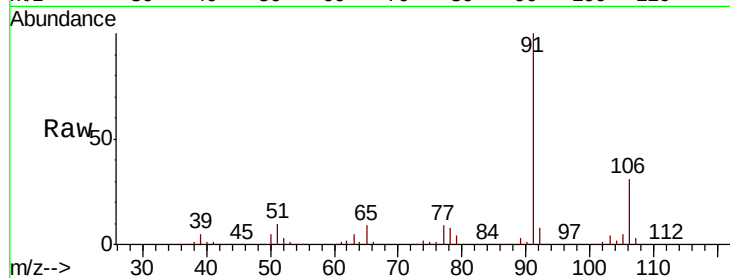
VSTD05099

Tot Ion: 91 Resp: 507233

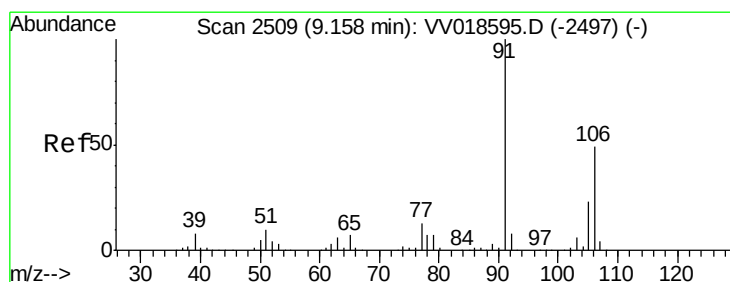
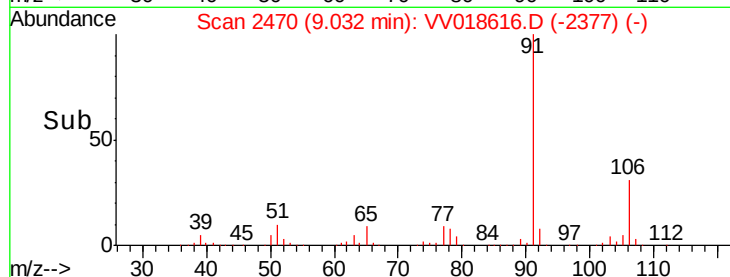
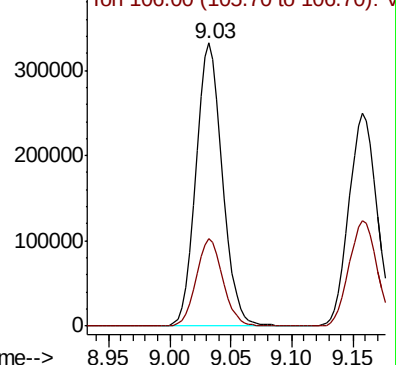
Ion Ratio Lower Upper

91 100

106 30.8 21.9 40.7



Abundance Ion 91.00 (90.70 to 91.70): VV018616.D (-2377) (-)



#53

m,p-Xylene

Concen: 50.704 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV018616.D

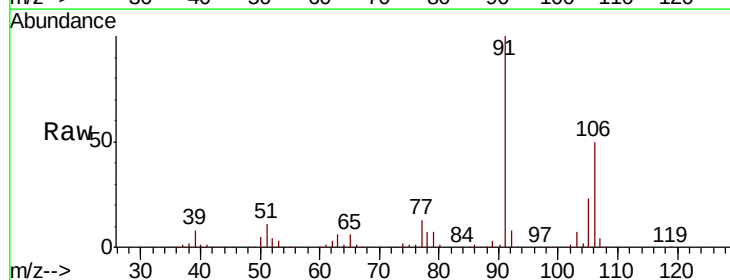
Acq: 02 Oct 2020 11:07

Tgt Ion: 106 Resp: 197907

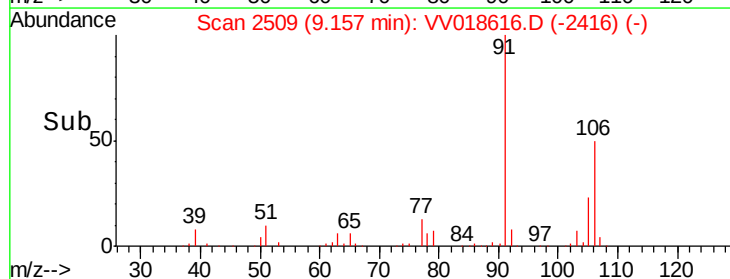
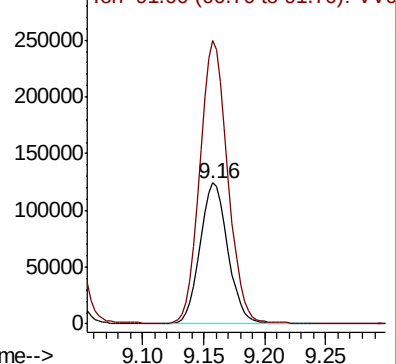
Ion Ratio Lower Upper

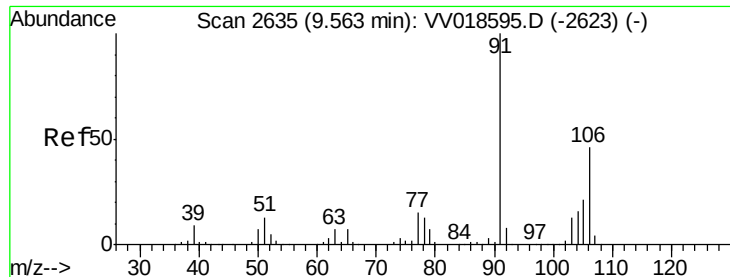
106 100

91 201.2 142.3 264.3



Abundance Ion 106.00 (105.70 to 106.70): VV018616.D (-2416) (-)





#54

o-xylene

Concen: 51.045 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

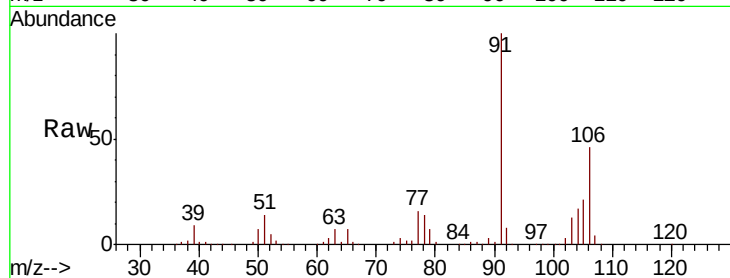
VSTD05099

Tot Ion:106 Resp: 188630

Ion Ratio Lower Upper

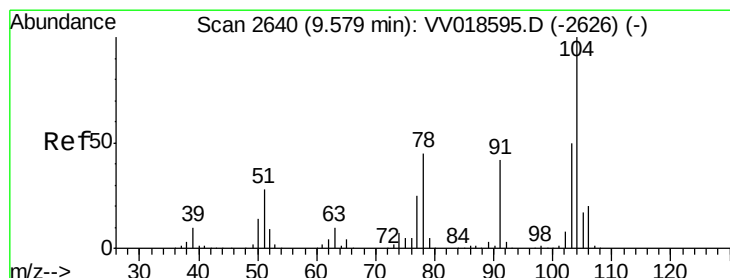
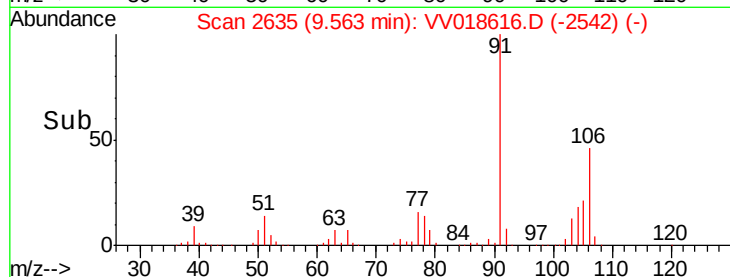
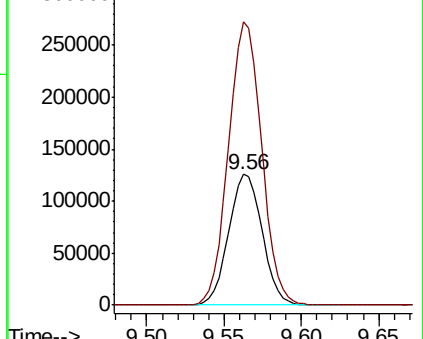
106 100

91 216.3 151.0 280.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 52.336 ug/L

RT: 9.58 min Scan# 2640

Delta R.T. -0.00 min

Lab File: VV018616.D

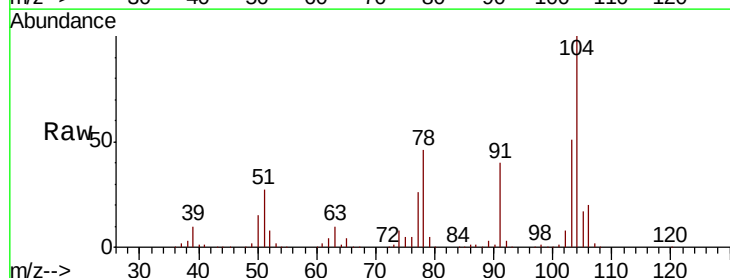
Acq: 02 Oct 2020 11:07

Tgt Ion:104 Resp: 336756

Ion Ratio Lower Upper

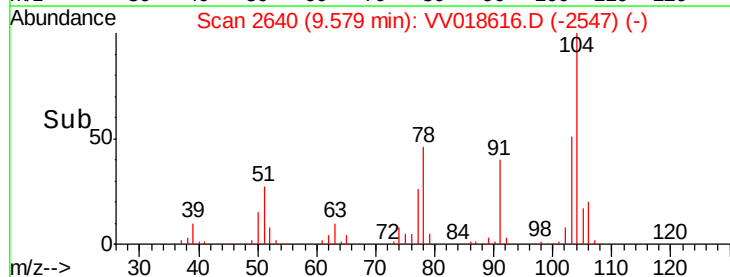
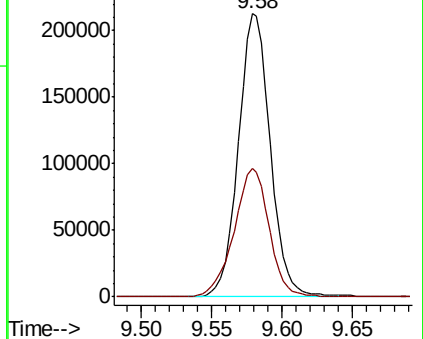
104 100

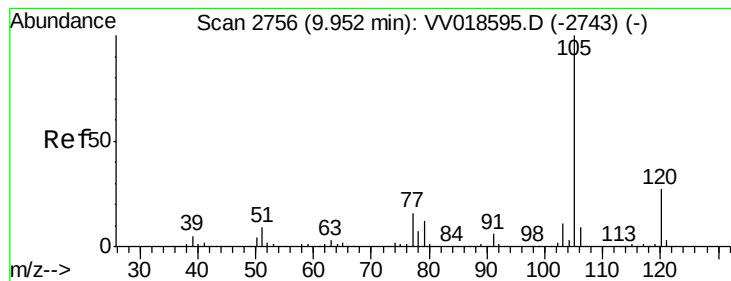
78 45.6 30.2 56.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 50.255 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD05099

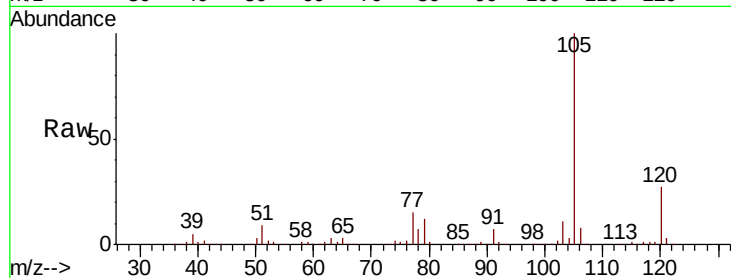
Tot Ion:105 Resp: 498064

Ion Ratio Lower Upper

105 100

120 26.5 21.5 32.3

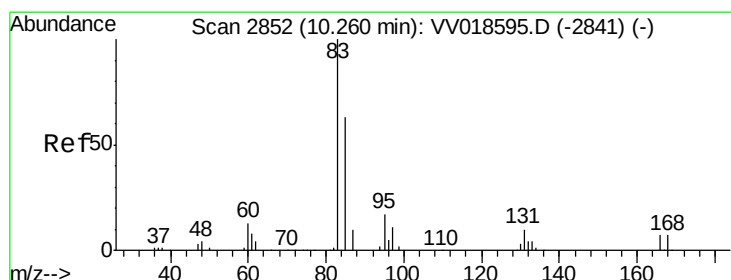
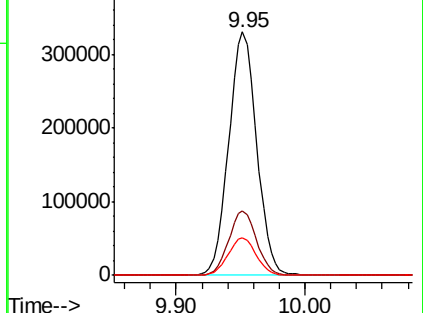
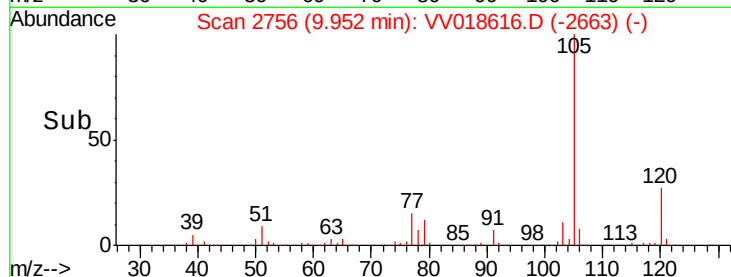
77 15.5 12.2 18.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 49.451 ug/L

RT: 10.26 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

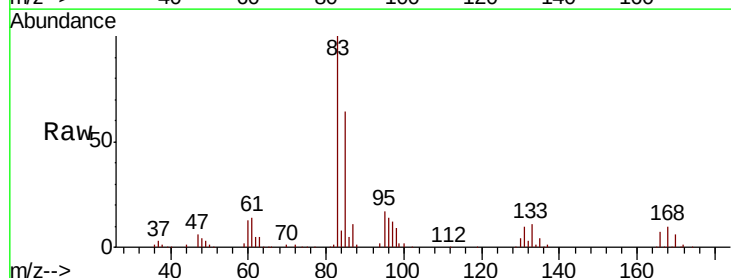
Tgt Ion: 83 Resp: 148000

Ion Ratio Lower Upper

83 100

85 64.0 44.5 82.7

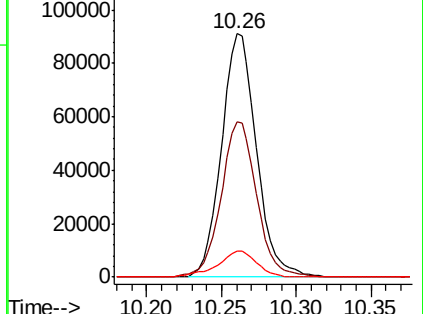
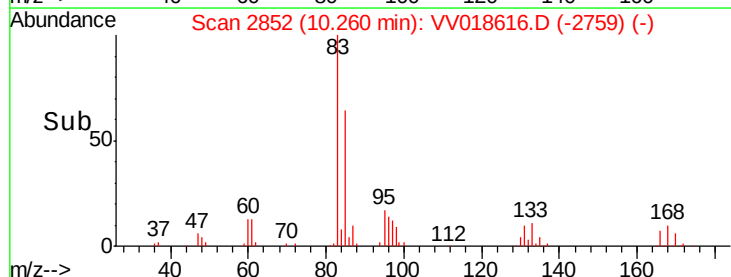
131 10.5 8.6 12.8

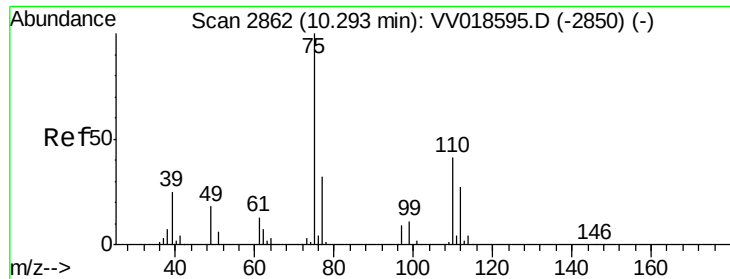


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

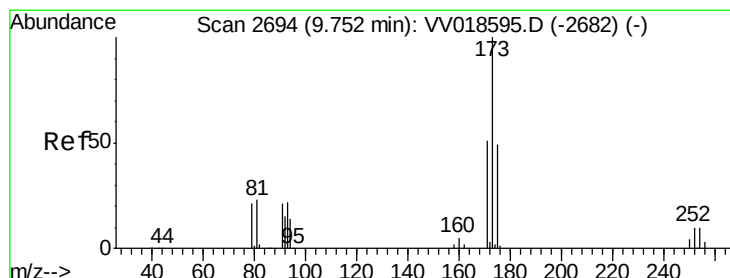
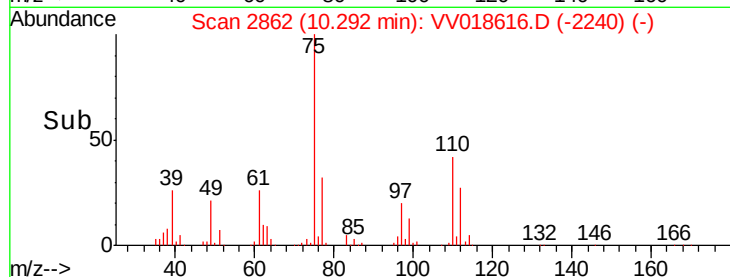
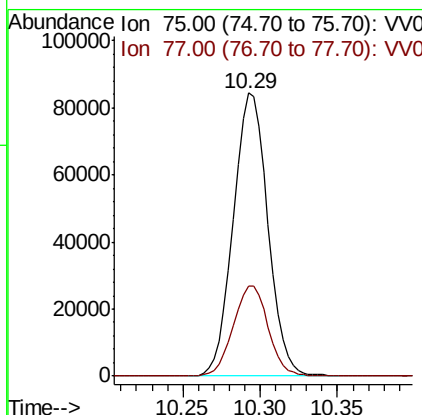
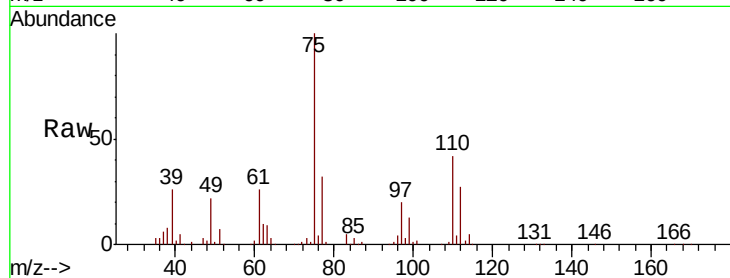




#59
 1,2,3-Trichloropropane
 Concen: 50.202 ug/L
 RT: 10.29 min Scan# 2862
 Delta R.T. -0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

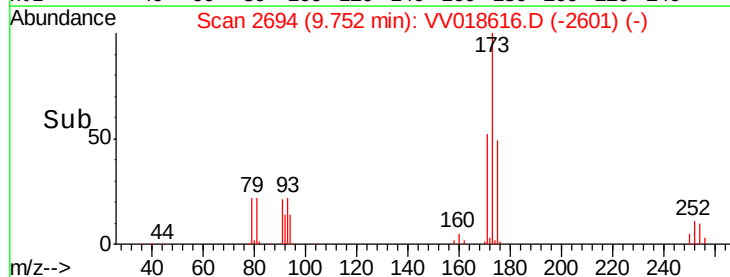
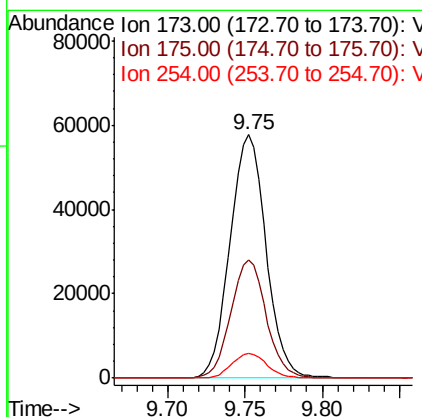
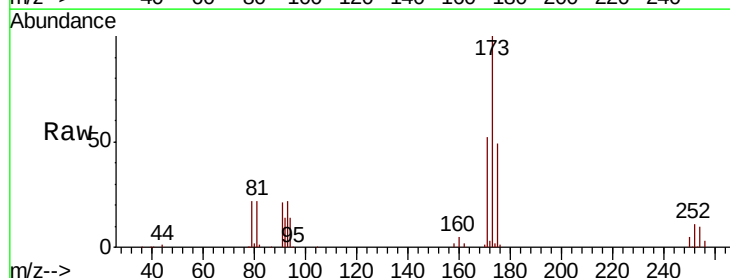
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05099

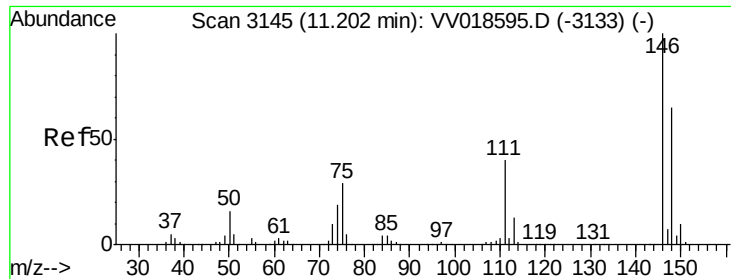
Tot Ion: 75 Resp: 130973
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.4 38.0



#61
 Bromoform
 Concen: 50.125 ug/L
 RT: 9.75 min Scan# 2694
 Delta R.T. -0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

Tgt Ion: 173 Resp: 93064
 Ion Ratio Lower Upper
 173 100
 175 47.6 39.8 59.8
 254 9.9 8.5 12.7

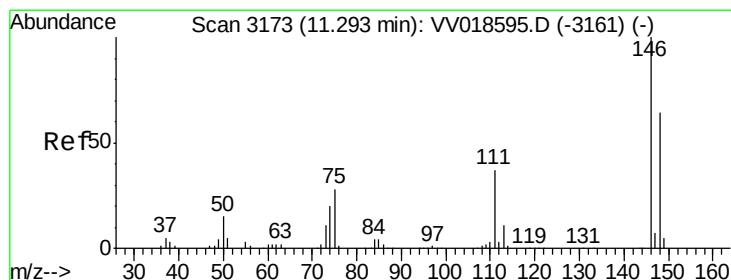
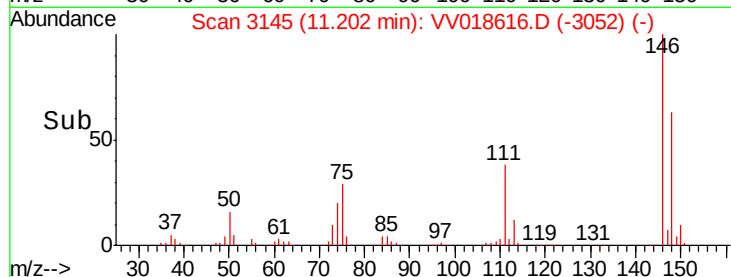
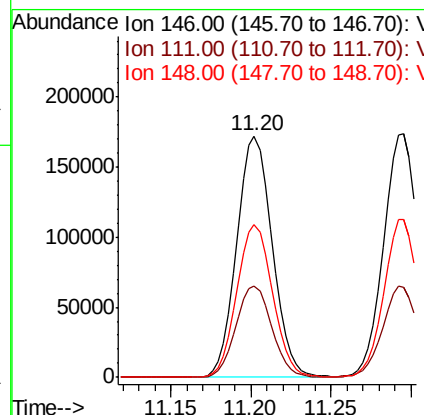
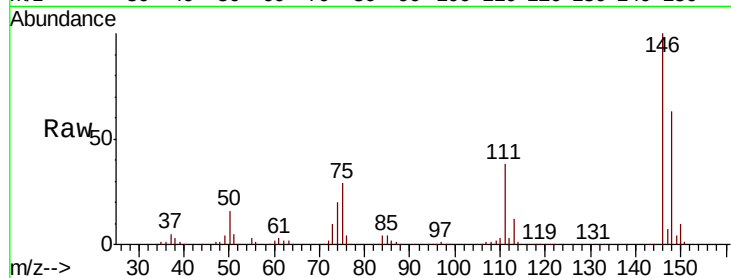




#62
 1,3-Dichlorobenzene
 Concen: 49.738 ug/L
 RT: 11.20 min Scan# 3145
 Delta R.T. -0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

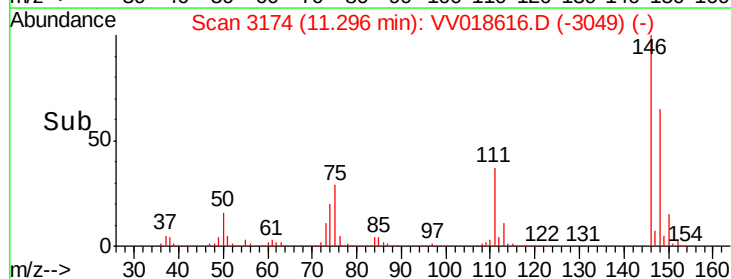
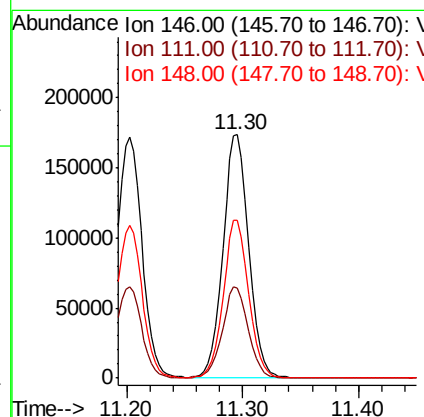
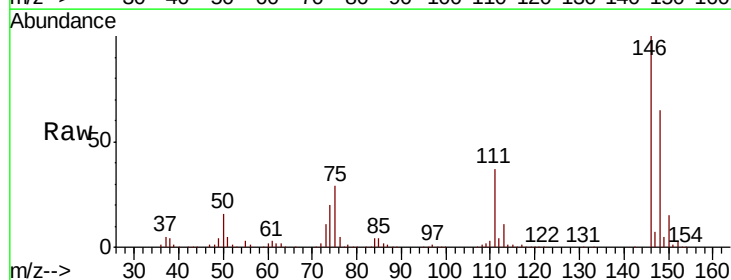
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05099

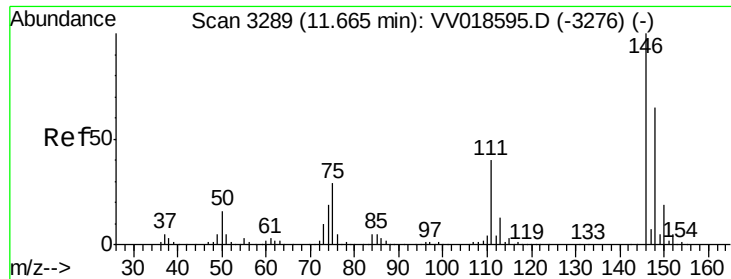
Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	26.8	49.8
148	63.3	44.0	81.8



#63
 1,4-Dichlorobenzene
 Concen: 49.877 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.9	26.2	48.6
148	65.0	44.4	82.5

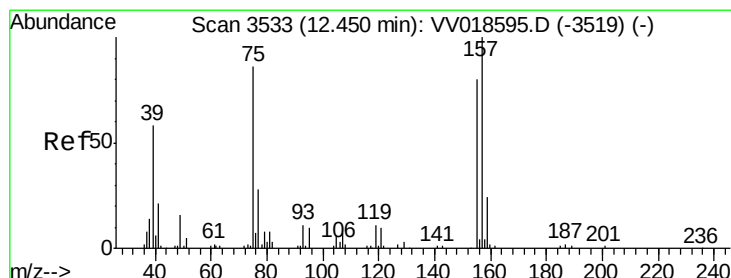
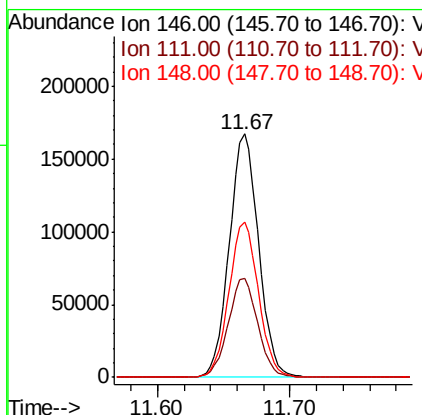
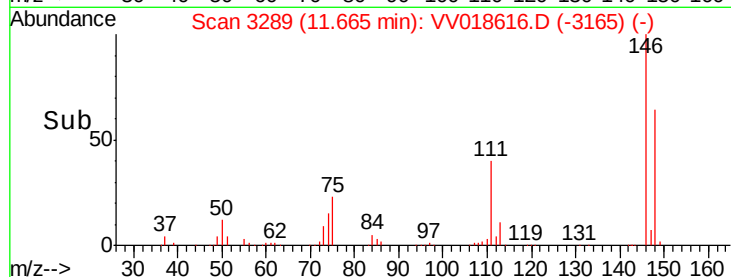
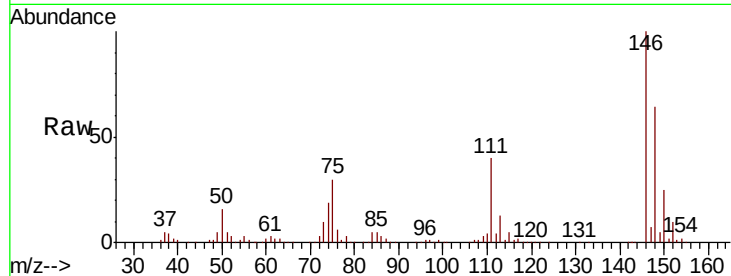




#65
 1,2-Dichlorobenzene
 Concen: 49.594 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. -0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

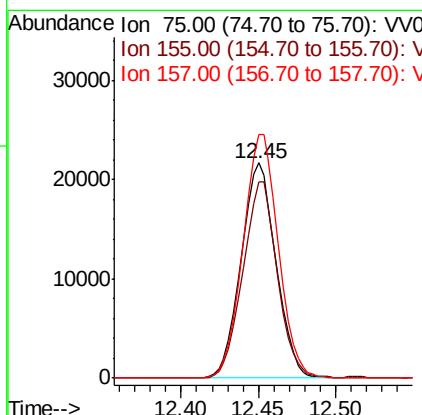
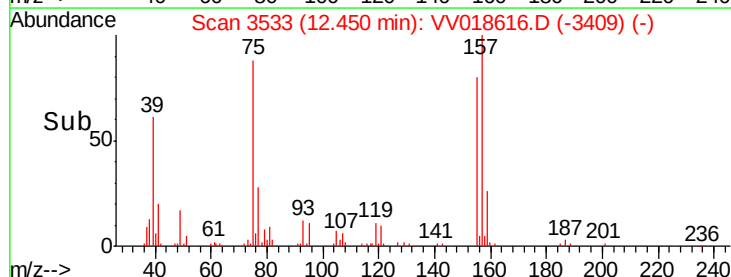
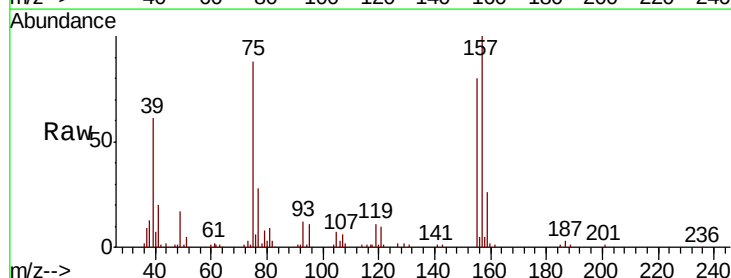
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05099

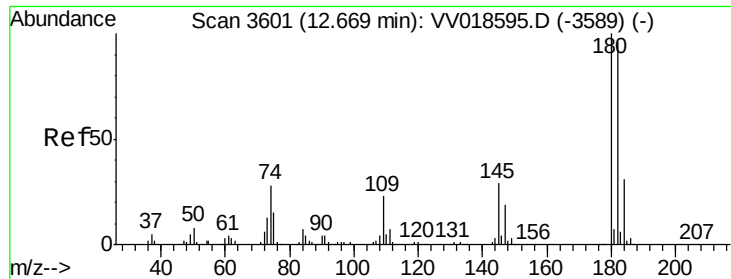
Tot Ion:146 Resp: 256648
 Ion Ratio Lower Upper
 146 100
 111 40.5 32.8 49.2
 148 63.8 51.9 77.9



#66
 1,2-Dibromo-3-chloropropane
 Concen: 48.077 ug/L
 RT: 12.45 min Scan# 3533
 Delta R.T. -0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

Tgt Ion: 75 Resp: 33964
 Ion Ratio Lower Upper
 75 100
 155 91.1 73.0 109.6
 157 113.3 95.8 143.6

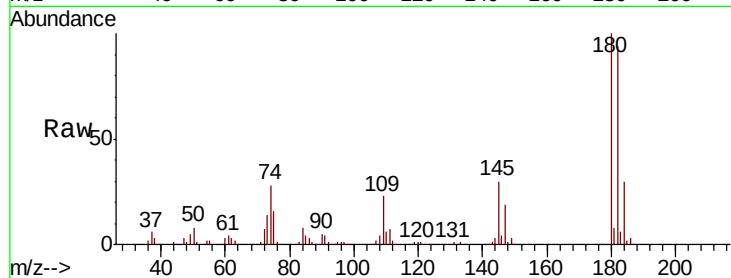




#67
 1,3,5-Trichlorobenzene
 Concen: 47.039 ug/L
 RT: 12.67 min Scan# 3600
 Delta R.T. -0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05099

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.4	77.1	115.7
184	30.9	24.3	36.5
145	29.1	22.9	34.3



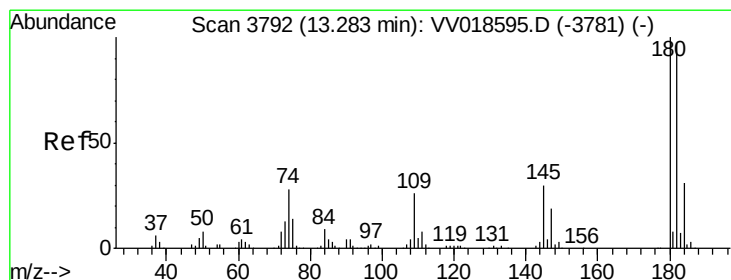
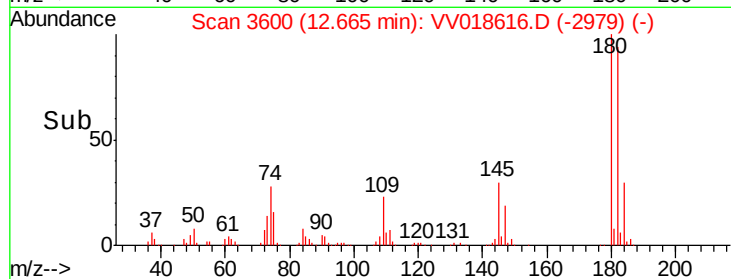
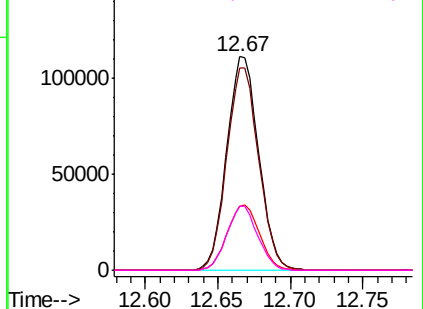
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

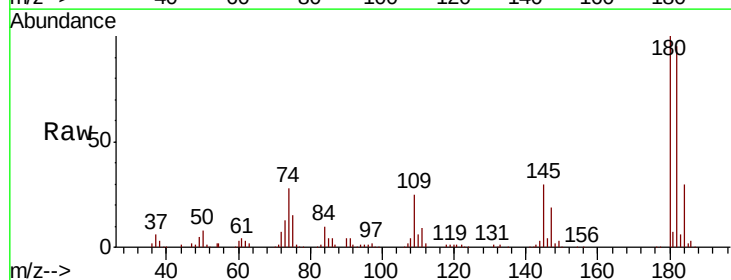
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 47.566 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. -0.00 min
 Lab File: VV018616.D
 Acq: 02 Oct 2020 11:07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.3	114.5
145	30.0	23.6	35.4

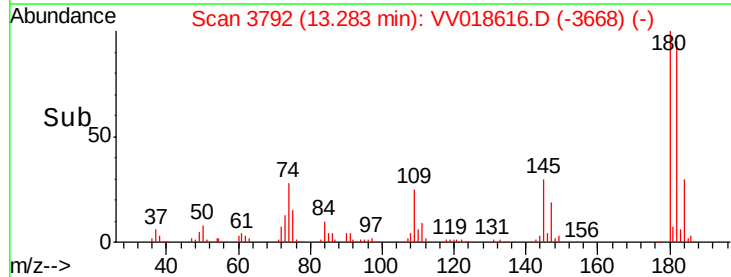
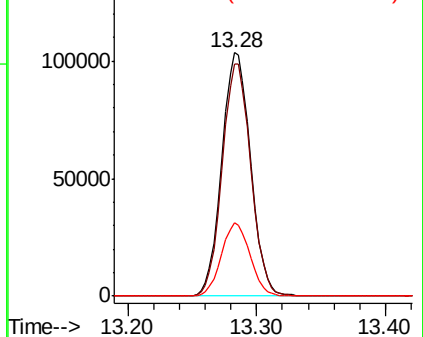


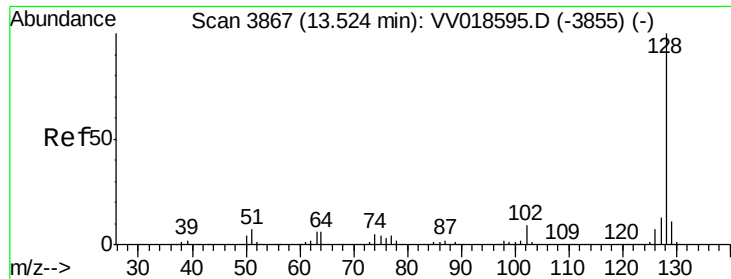
Abundance

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: 49.769 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

Instrument :

MSVOA_V

ClientSampleId :

VSTD05099

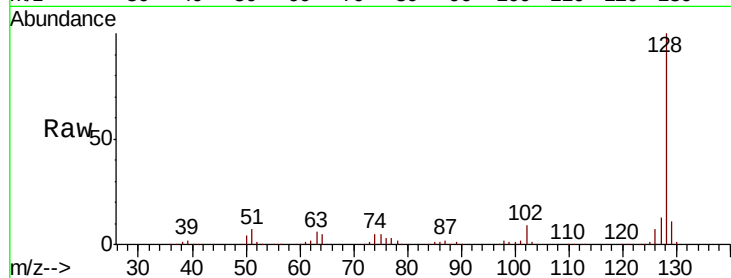
Tot Ion:128 Resp: 480367

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

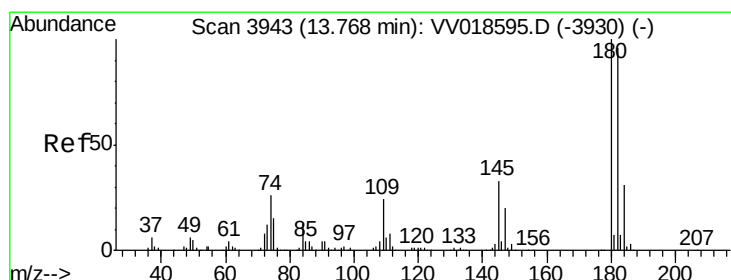
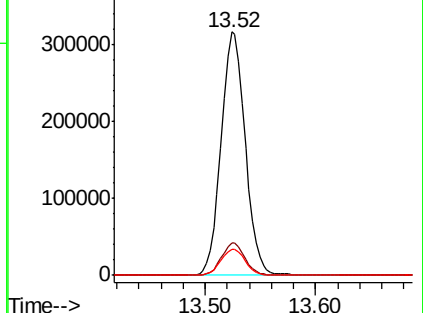
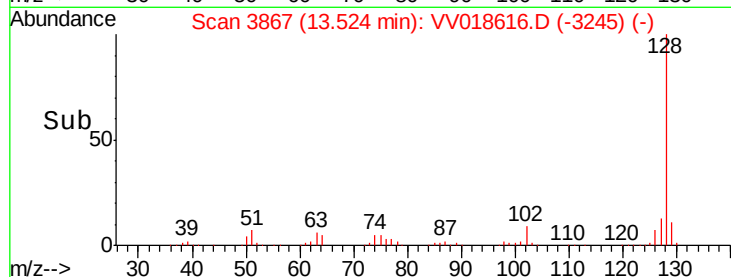
129 10.8 8.6 12.8



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: 48.121 ug/L

RT: 13.77 min Scan# 3943

Delta R.T. -0.00 min

Lab File: VV018616.D

Acq: 02 Oct 2020 11:07

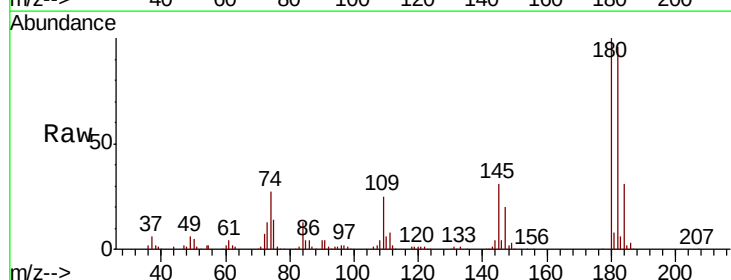
Tgt Ion:180 Resp: 162879

Ion Ratio Lower Upper

180 100

182 96.7 77.1 115.7

145 31.2 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

