

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080320\
 Data File : VV017790.D
 Acq On : 03 Aug 2020 12:00
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005002

Quant Time: Aug 04 01:45:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR072919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Dec 20 08:09:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	164295	5.00	ug/L	-0.03
28) Chlorobenzene-d5	8.87	117	159792	5.00	ug/L	-0.02
58) 1,4-Dichlorobenzene-d4	11.27	152	88645	5.00	ug/L	-0.02

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	29241	3.15	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	63.00%
7) Chloroethane-d5	1.58	69	27680	4.25	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.00%
11) 1,1-Dichloroethene-d2	2.12	63	73972	4.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	87.80%
20) 2-Butanone-d5	3.94	46	77270	36.59	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	73.18%
24) Chloroform-d	4.37	84	83992	4.18	ug/L	-0.03
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.60%
26) 1,2-Dichloroethane-d4	5.05	65	45997	4.23	ug/L	-0.03
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.60%
32) Benzene-d6	5.07	84	134413	3.34	ug/L	-0.03
Spiked Amount	5.000	Range	70 - 125	Recovery	=	66.80%#
36) 1,2-Dichloropropane-d6	6.09	67	36138	3.21	ug/L	-0.03
Spiked Amount	5.000	Range	60 - 140	Recovery	=	64.20%
41) Toluene-d8	7.33	98	125459	3.21	ug/L	-0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	64.20%#
43) trans-1,3-Dichloropropene-	7.64	79	18471	3.75	ug/L	-0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.00%
46) 2-Hexanone-d5	8.11	63	56144	32.25	ug/L	-0.03
Spiked Amount	50.000	Range	45 - 130	Recovery	=	64.50%
56) 1,1,2,2-Tetrachloroethane-	10.24	84	28398	3.36	ug/L	-0.02
Spiked Amount	5.000	Range	65 - 120	Recovery	=	67.20%
66) 1,2-Dichlorobenzene-d4	11.65	152	54761	3.47	ug/L	-0.02
Spiked Amount	5.000	Range	80 - 120	Recovery	=	69.40%#

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	79953	4.270	ug/L	100
3) Chloromethane	1.25	50	52444	4.893	ug/L	99
5) Vinyl chloride	1.32	62	54353	4.957	ug/L	96
6) Bromomethane	1.53	94	35661	5.441	ug/L	100
8) Chloroethane	1.59	64	33822	5.676	ug/L	99
9) Trichlorofluoromethane	1.76	101	114776	6.119	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	51198	6.283	ug/L	99
12) 1,1-Dichloroethene	2.13	96	45937	6.086	ug/L	94
13) Acetone	2.23	43	72773	62.617	ug/L	71
14) Carbon disulfide	2.31	76	132929	6.307	ug/L	99
15) Methyl Acetate	2.46	43	14323	5.997	ug/L	93
16) Methylene chloride	2.52	84	52846	6.827	ug/L	99
17) Methyl tert-butyl Ether	2.79	73	114887	4.841	ug/L	98
18) trans-1,2-Dichloroethene	2.77	96	51714	4.755	ug/L	97
19) 1,1-Dichloroethane	3.21	63	93429	4.804	ug/L	96
21) 2-Butanone	4.03	43	98250	42.846	ug/L #	66
22) cis-1,2-Dichloroethene	3.94	96	55325	4.778	ug/L	96

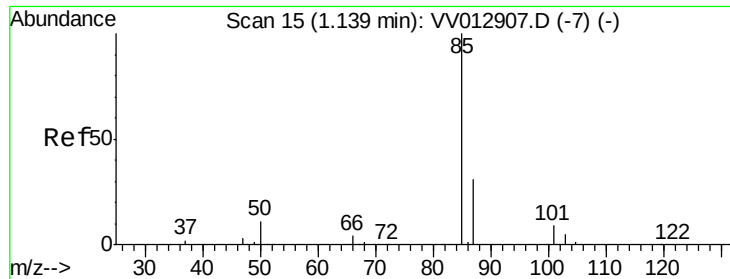
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080320\
 Data File : VV017790.D
 Acq On : 03 Aug 2020 12:00
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005002

Quant Time: Aug 04 01:45:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR072919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Dec 20 08:09:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.27	128	25884	5.096	ug/L	83
25) Chloroform	4.40	83	110065	4.513	ug/L	99
27) 1,2-Dichloroethane	5.15	62	70288	5.223	ug/L	100
29) 1,1,1-Trichloroethane	4.63	97	111368	5.638	ug/L	98
30) Cyclohexane	4.69	56	71051	4.205	ug/L	96
31) Carbon tetrachloride	4.85	117	100537	5.657	ug/L	99
33) Benzene	5.12	78	203093	4.679	ug/L	100
34) Trichloroethene	5.93	95	59428	4.801	ug/L	99
35) Methylcyclohexane	6.15	83	82246	4.241	ug/L	98
37) 1,2-Dichloropropane	6.19	63	46733	4.654	ug/L #	97
38) Bromodichloromethane	6.53	83	75725	5.341	ug/L	98
39) cis-1,3-Dichloropropene	7.04	75	73896	4.693	ug/L	96
40) 4-Methyl-2-pentanone	7.25	43	234201	41.345	ug/L	99
42) Toluene	7.41	91	230395	4.774	ug/L	98
44) trans-1,3-Dichloropropene	7.67	75	66417	5.217	ug/L	99
45) 1,1,2-Trichloroethane	7.86	97	34746	4.537	ug/L	98
47) Tetrachloroethene	7.99	164	53648	4.959	ug/L	96
48) 2-Hexanone	8.16	43	169295	42.288	ug/L	98
49) Dibromochloromethane	8.26	129	50730	5.403	ug/L	95
50) 1,2-Dibromoethane	8.37	107	31990	4.469	ug/L	96
51) Chlorobenzene	8.90	112	153067	4.744	ug/L	99
52) Ethylbenzene	9.03	91	260239	4.726	ug/L	98
53) m,p-xylene	9.16	106	102673	4.898	ug/L	95
54) o-xylene	9.56	106	96805	4.879	ug/L	92
55) Styrene	9.58	104	166157	4.970	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.26	83	34964	4.254	ug/L #	97
59) Bromoform	9.75	173	28647	5.346	ug/L	100
60) Isopropylbenzene	9.95	105	275341	4.862	ug/L	98
61) 1,2,3-Trichloropropane	10.30	75	28634	4.432	ug/L	99
62) 1,3,5-Trimethylbenzene	10.56	105	233373	4.991	ug/L	98
63) 1,2,4-Trimethylbenzene	10.94	105	236828	5.097	ug/L	99
64) 1,3-Dichlorobenzene	11.20	146	137072	4.857	ug/L	97
65) 1,4-Dichlorobenzene	11.29	146	137338	4.775	ug/L	99
67) 1,2-Dichlorobenzene	11.67	146	124149	4.841	ug/L	97
68) 1,2-Dibromo-3-chloropropan	12.45	75	7158	5.373	ug/L	97
69) 1,3,5-Trichlorobenzene	12.67	180	110595	4.740	ug/L	98
70) 1,2,4-trichlorobenzene	13.29	180	87755	4.753	ug/L	98
71) Naphthalene	13.53	128	115729	4.517	ug/L	99
72) 1,2,3-Trichlorobenzene	13.77	180	78173	4.777	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 4.270 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

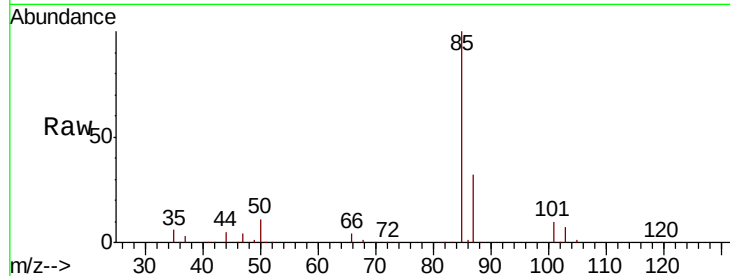
VSTD005002

Tot Ion: 85 Resp: 79953

Ion Ratio Lower Upper

85 100

87 32.2 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV012907.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV012907.D (-7) (-)

1.14

100000

80000

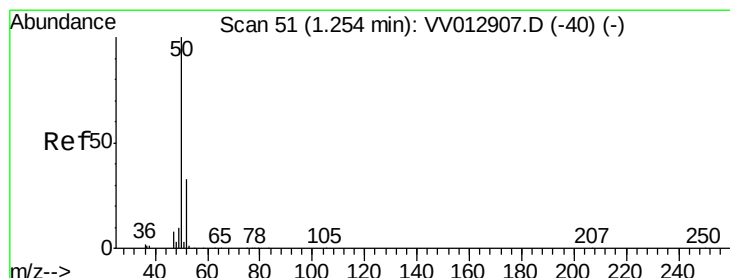
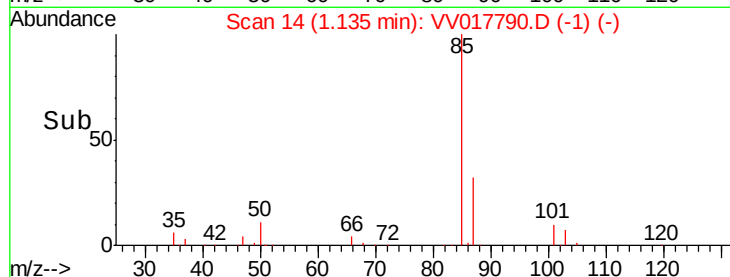
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 4.893 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.01 min

Lab File: VV017790.D

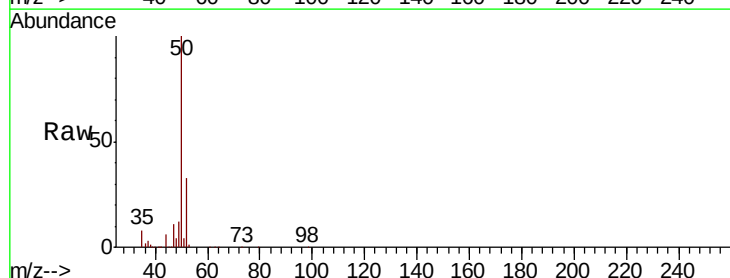
Acq: 03 Aug 2020 12:00

Tgt Ion: 50 Resp: 52444

Ion Ratio Lower Upper

50 100

52 32.7 23.4 43.4



Abundance Ion 50.05 (49.75 to 50.75): VV012907.D (-40) (-)

Ion 52.05 (51.75 to 52.75): VV012907.D (-40) (-)

1.25

60000

50000

40000

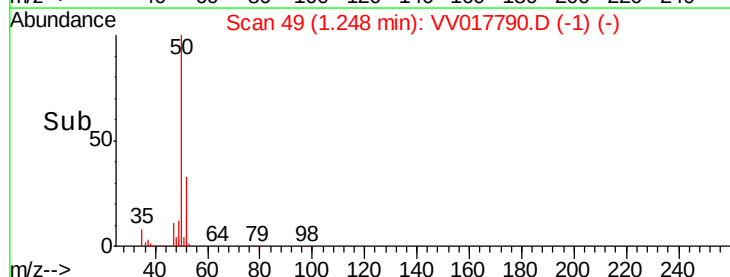
30000

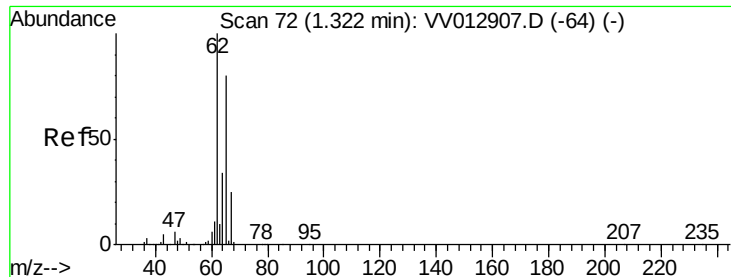
20000

10000

0

Time-->





#5

Vinyl chloride

Concen: 4.957 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

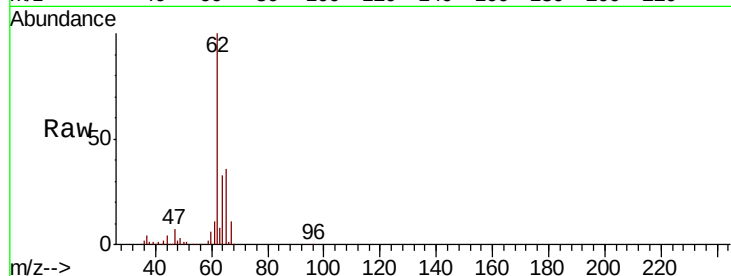
VSTD005002

Tot Ion: 62 Resp: 54353

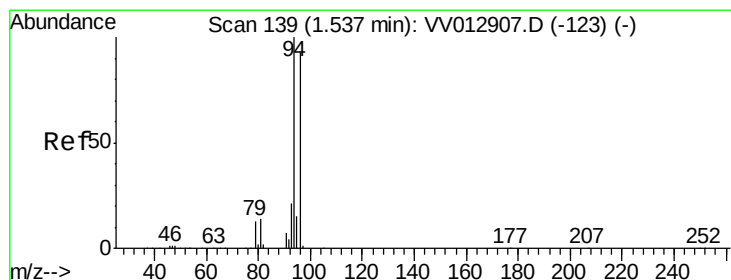
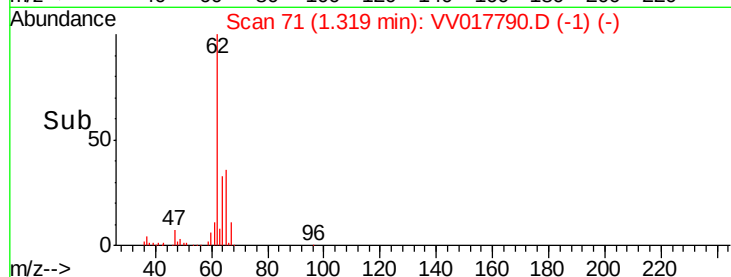
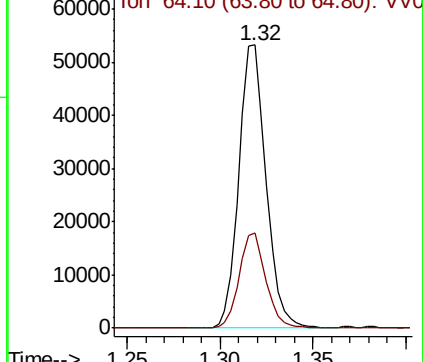
Ion Ratio Lower Upper

62 100

64 33.4 22.0 41.0



Abundance Ion 62.00 (61.70 to 62.70): VV012907.D (-64) (-)



#6

Bromomethane

Concen: 5.441 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.01 min

Lab File: VV017790.D

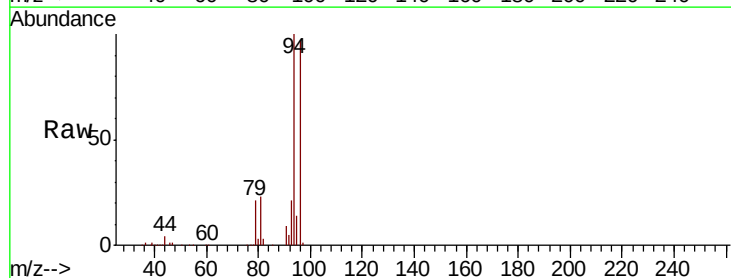
Acq: 03 Aug 2020 12:00

Tgt Ion: 94 Resp: 35661

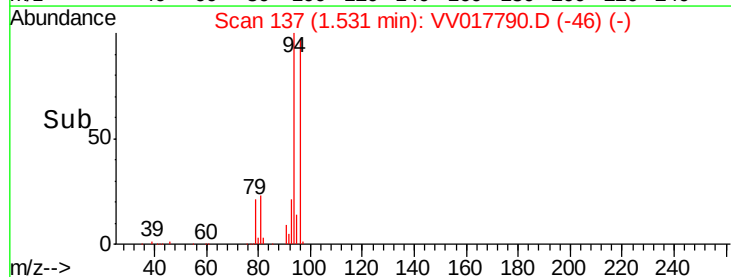
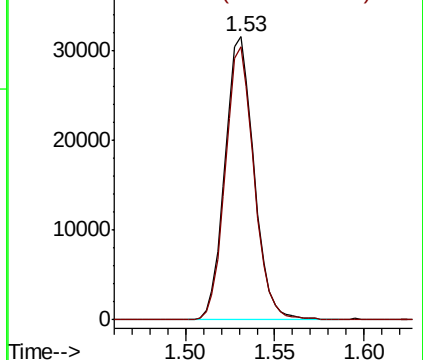
Ion Ratio Lower Upper

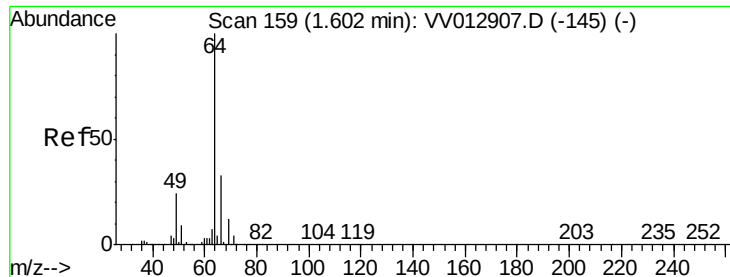
94 100

96 96.6 67.8 125.8



Abundance Ion 94.00 (93.70 to 94.70): VV012907.D (-123) (-)





#8

Chloroethane

Concen: 5.676 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.01 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

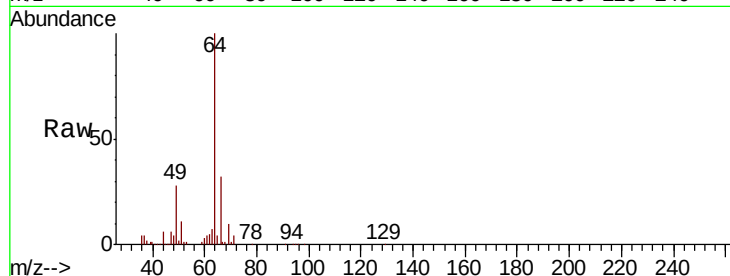
VSTD005002

Tot Ion: 64 Resp: 33822

Ion Ratio Lower Upper

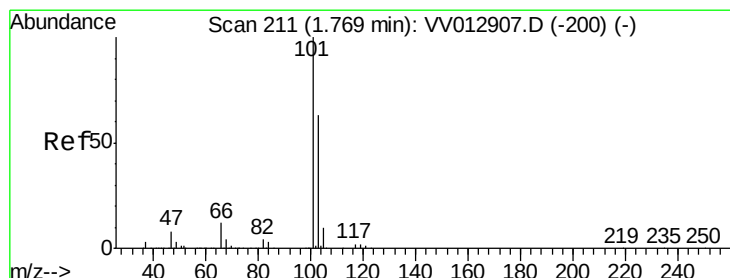
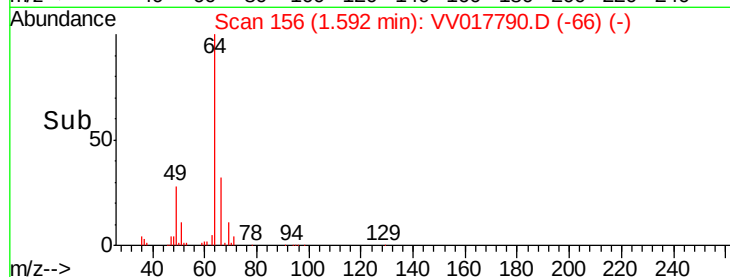
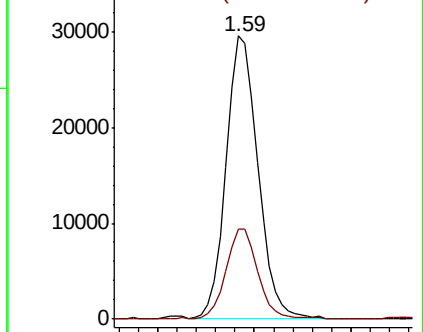
64 100

66 31.8 21.7 40.3



Abundance Ion 64.10 (63.80 to 64.80): VV012907.D (-145) (-)

Ion 66.05 (65.75 to 66.75): VV012907.D (-145) (-)



#9

Trichlorofluoromethane

Concen: 6.119 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.01 min

Lab File: VV017790.D

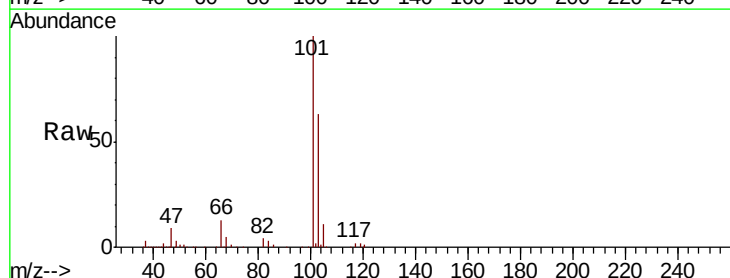
Acq: 03 Aug 2020 12:00

Tgt Ion: 101 Resp: 114776

Ion Ratio Lower Upper

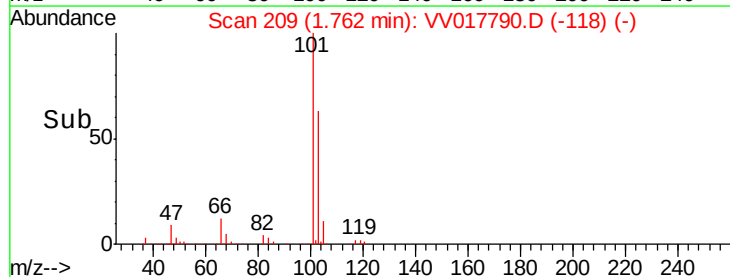
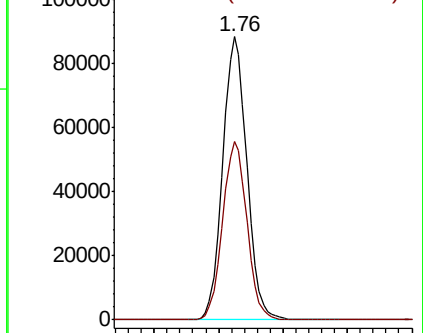
101 100

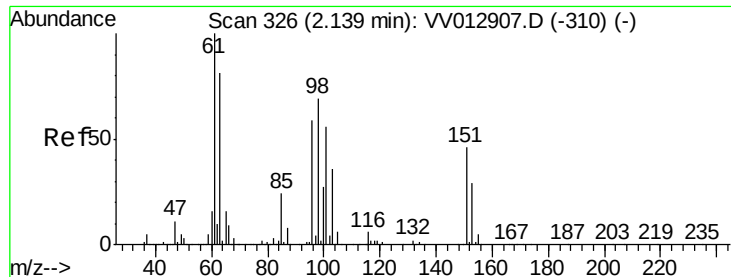
103 63.2 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): VV012907.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV012907.D (-200) (-)





#10

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

Concen: 6.283 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD005002

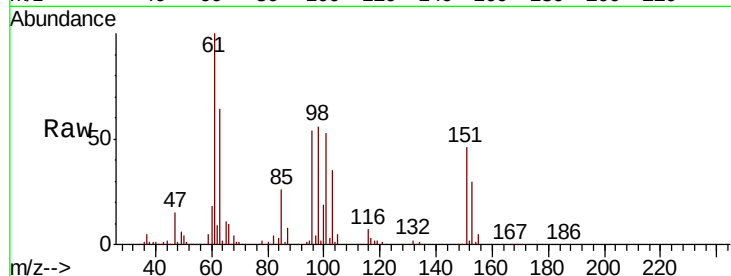
Tot Ion:101 Resp: 51198

Ion Ratio Lower Upper

101 100

85 47.3 37.8 56.8

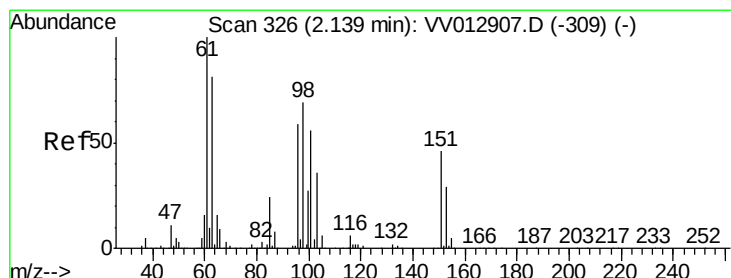
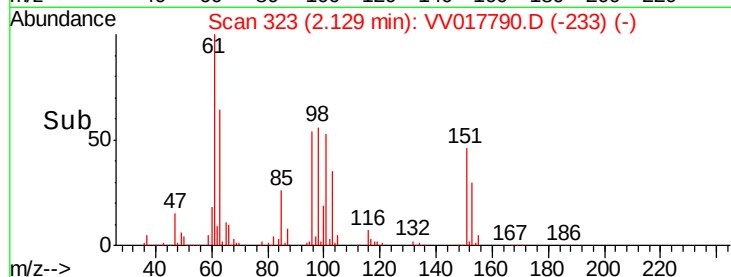
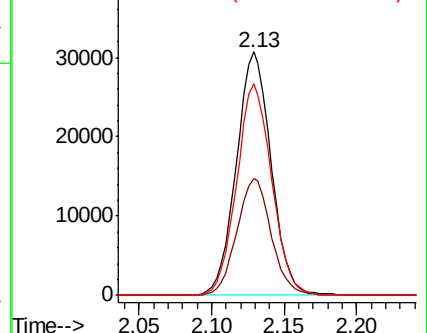
151 87.3 71.4 107.2



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: 6.086 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

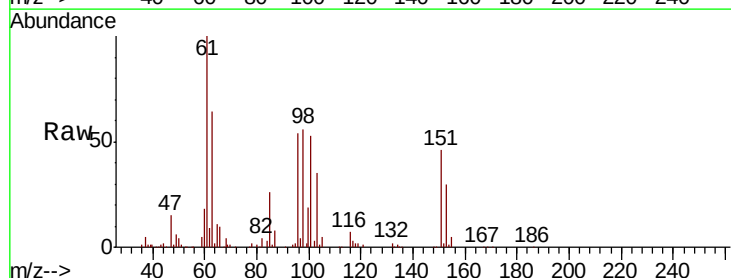
Tgt Ion: 96 Resp: 45937

Ion Ratio Lower Upper

96 100

61 184.4 127.8 237.4

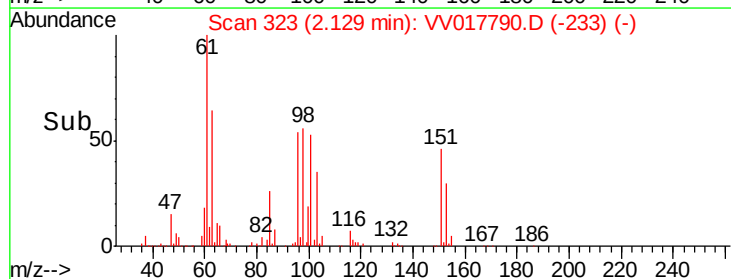
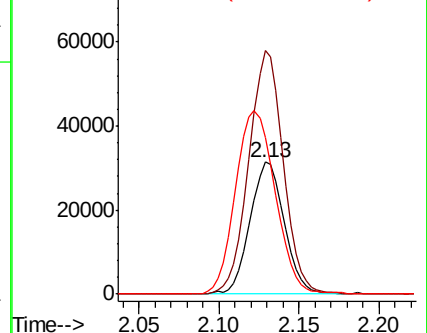
63 118.4 92.7 172.3

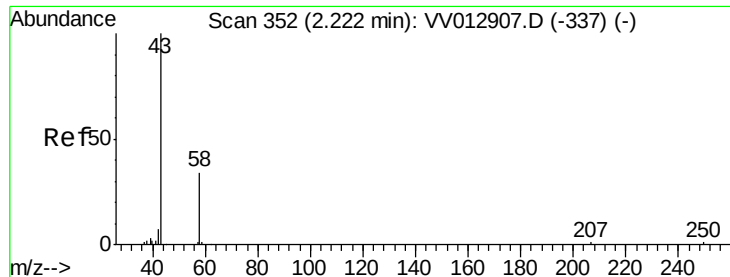


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 62.617 ug/L

RT: 2.23 min Scan# 354

Delta R.T. 0.01 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

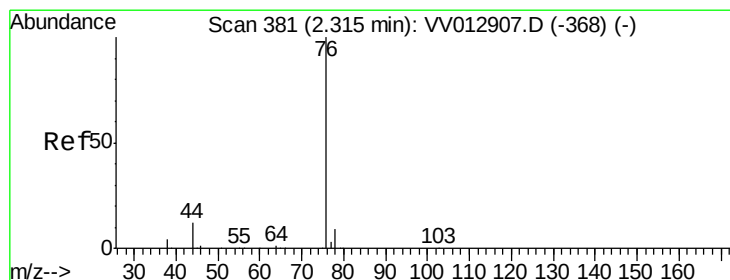
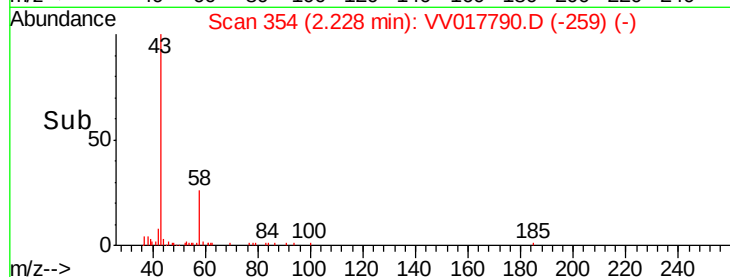
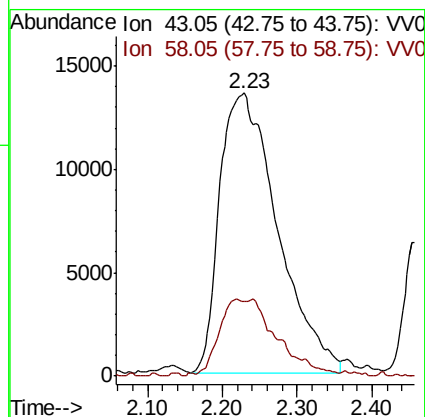
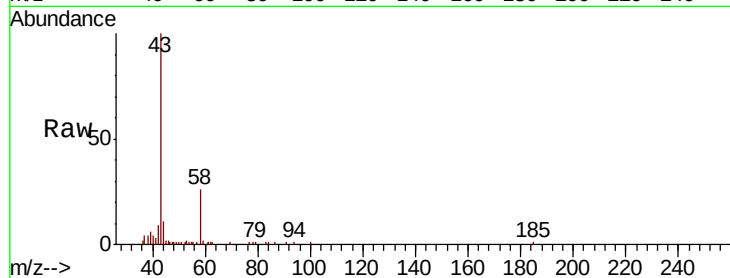
VSTD005002

Tot Ion: 43 Resp: 72773

Ion Ratio Lower Upper

43 100

58 11.0 0.0 51.6



#14

Carbon disulfide

Concen: 6.307 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV017790.D

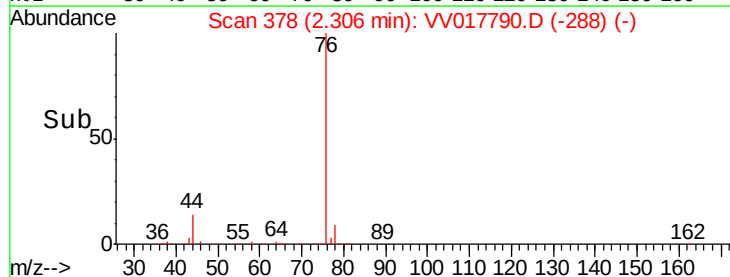
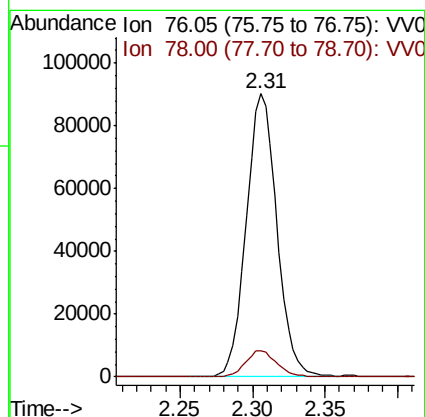
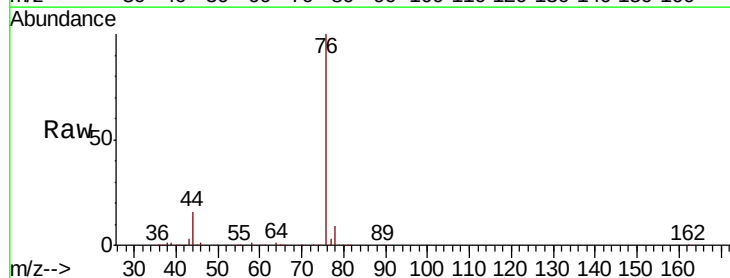
Acq: 03 Aug 2020 12:00

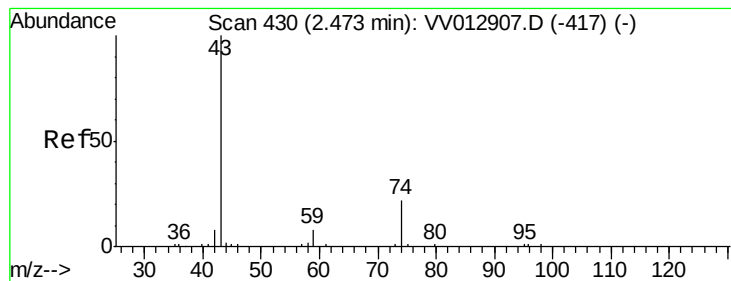
Tgt Ion: 76 Resp: 132929

Ion Ratio Lower Upper

76 100

78 9.5 7.2 10.8





#15

Methvl Acetate

Concen: 5.997 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

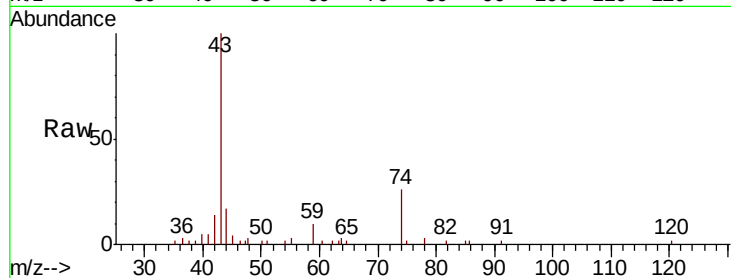
VSTD005002

Tot Ion: 43 Resp: 14323

Ion Ratio Lower Upper

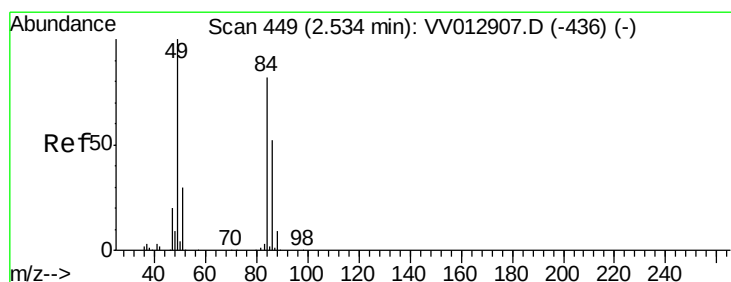
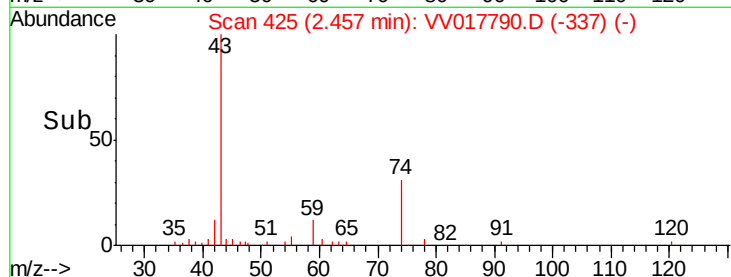
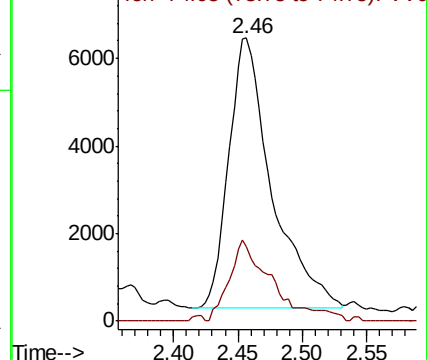
43 100

74 26.5 24.4 36.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 6.827 ug/L

RT: 2.52 min Scan# 445

Delta R.T. -0.01 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

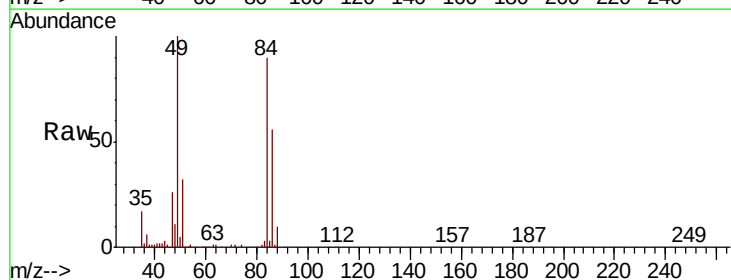
Tgt Ion: 84 Resp: 52846

Ion Ratio Lower Upper

84 100

86 62.5 44.9 83.3

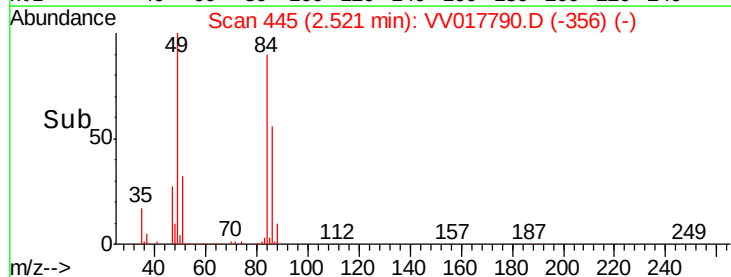
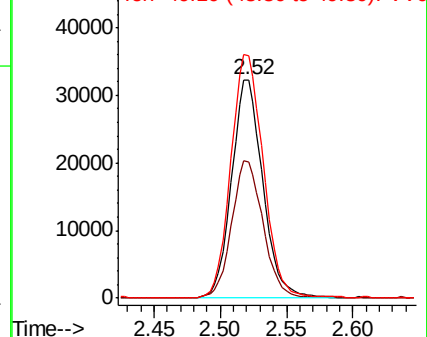
49 111.1 78.6 146.0

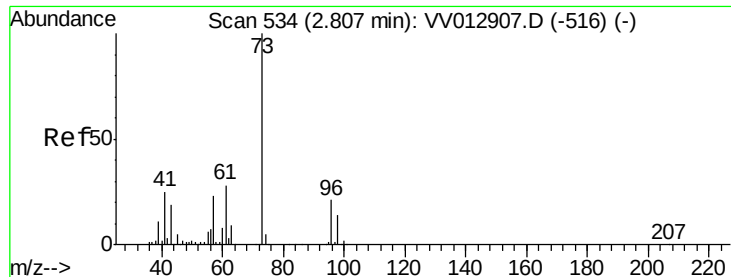


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0

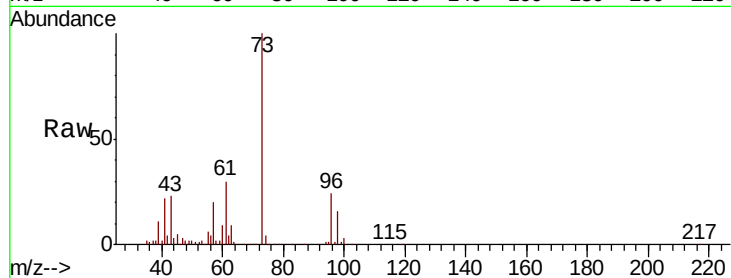




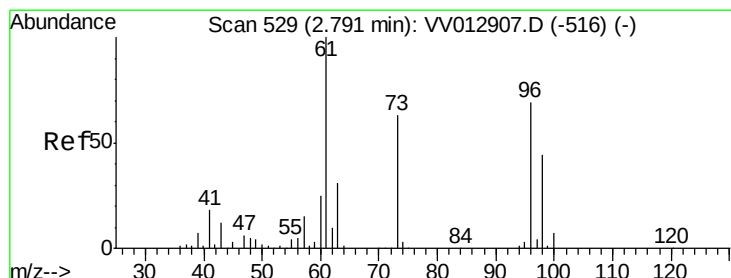
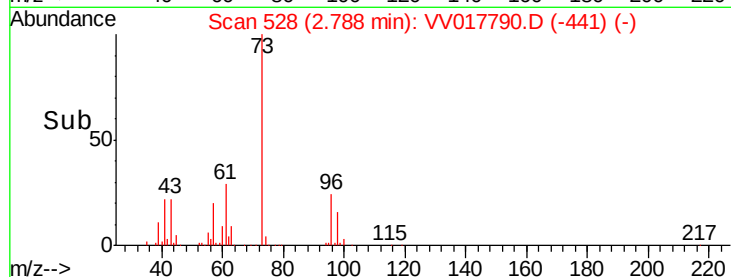
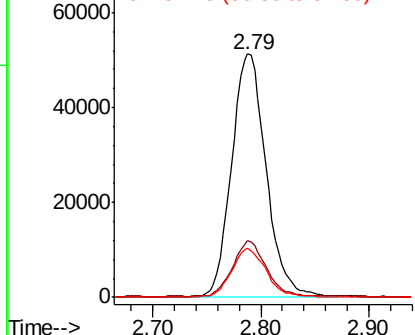
#17
Methyl tert-butyl Ether
Concen: 4.841 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.02 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

Instrument :
MSVOA_V
ClientSampleId :
VSTD005002

Tot Ion: 73 Resp: 114887
Ion Ratio Lower Upper
73 100
43 21.5 17.6 26.4
57 20.2 17.0 25.6

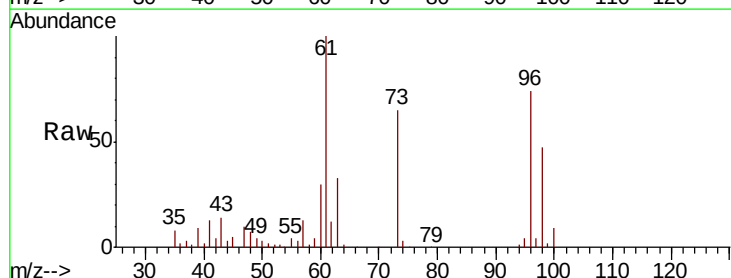


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

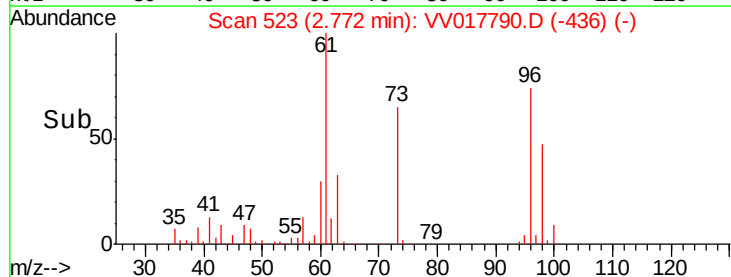
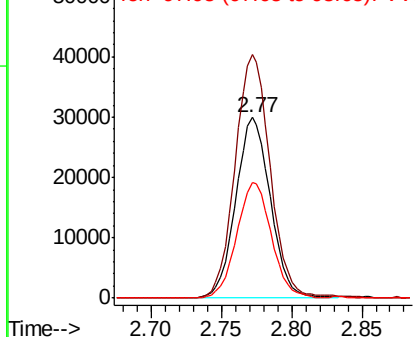


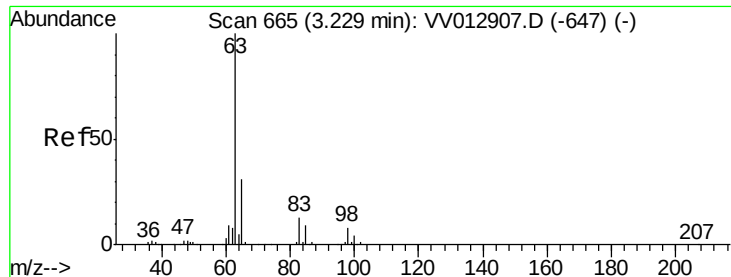
#18
trans-1,2-Dichloroethene
Concen: 4.755 ug/L
RT: 2.77 min Scan# 523
Delta R.T. -0.02 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

Tgt Ion: 96 Resp: 51714
Ion Ratio Lower Upper
96 100
61 134.7 97.2 180.6
98 63.6 45.0 83.6



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

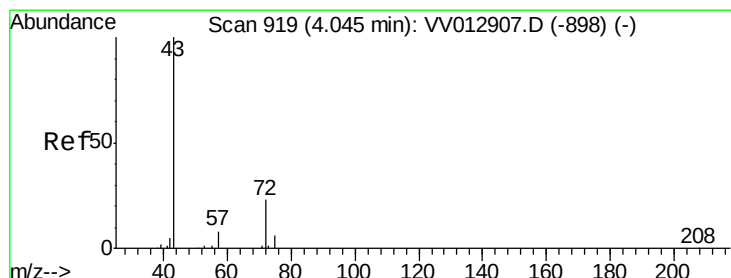
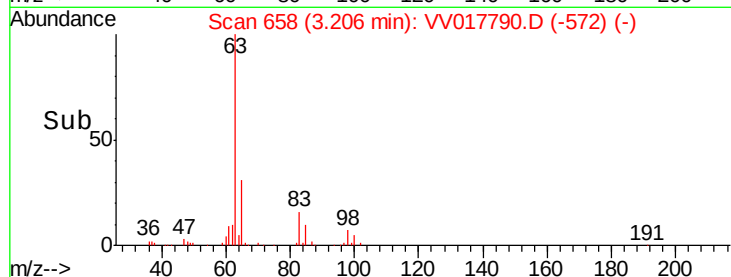
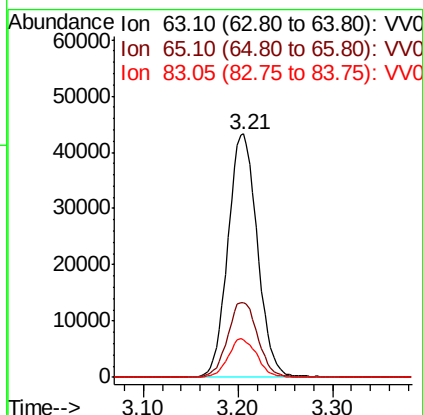
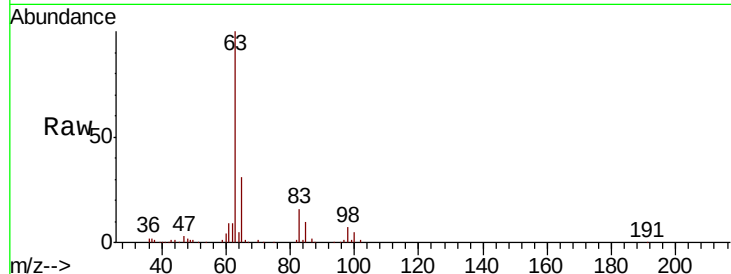




#19
 1,1-Dichloroethane
 Concen: 4.804 ug/L
 RT: 3.21 min Scan# 658
 Delta R.T. -0.02 min
 Lab File: VV017790.D
 Acq: 03 Aug 2020 12:00

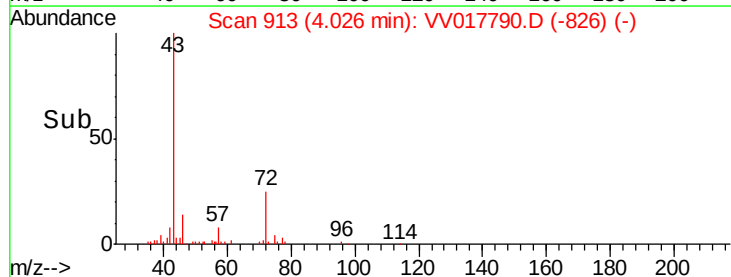
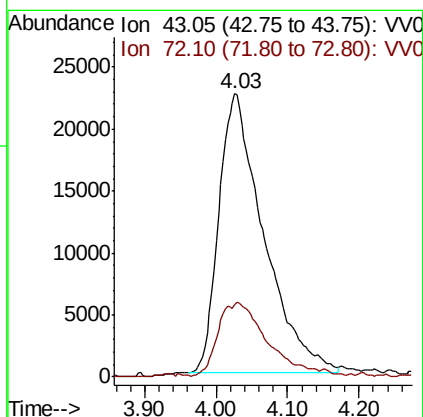
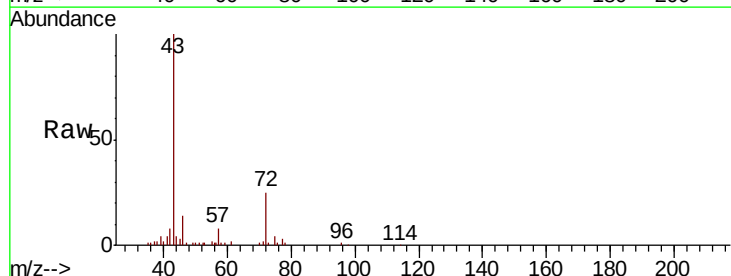
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005002

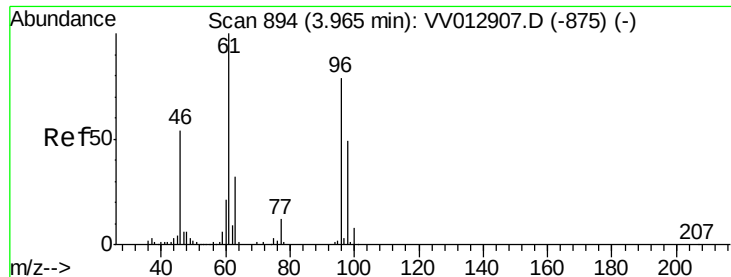
Tot Ion	Ratio	Lower	Upper
63	100		
65	30.6	23.0	42.6
83	15.6	9.7	17.9



#21
 2-Butanone
 Concen: 42.846 ug/L
 RT: 4.03 min Scan# 913
 Delta R.T. -0.02 min
 Lab File: VV017790.D
 Acq: 03 Aug 2020 12:00

Tgt Ion	Ratio	Lower	Upper
43	100		
72	9.4	13.4	40.2#



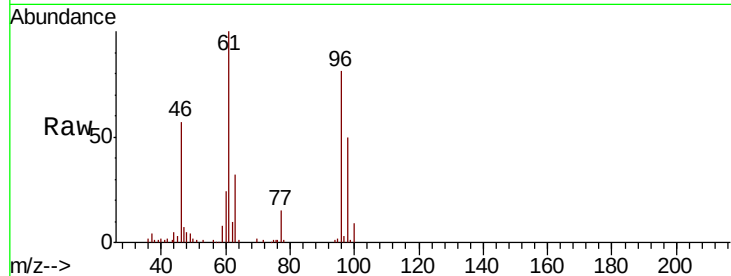


#22

cis-1,2-Dichloroethene
Concen: 4.778 ug/L
RT: 3.94 min Scan# 885
Delta R.T. -0.03 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

Instrument :
MSVOA_V
ClientSampleId :
VSTD005002

Tot Ion	96	Resp	55325
Ion	Ratio	Lower	Upper
96	100		
61	123.9	90.0	167.2
68	0.0	0.0	0.0

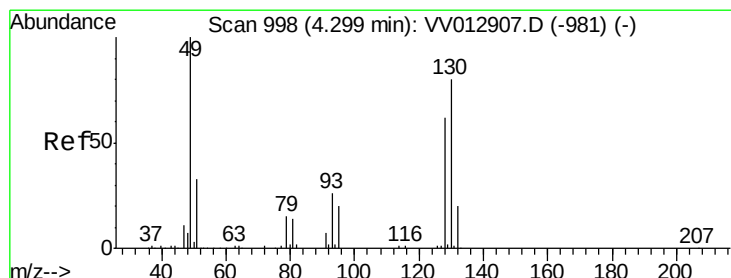
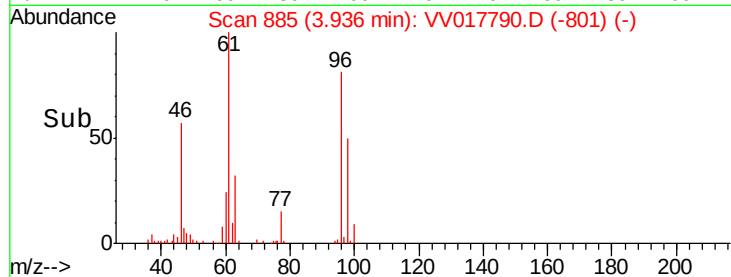
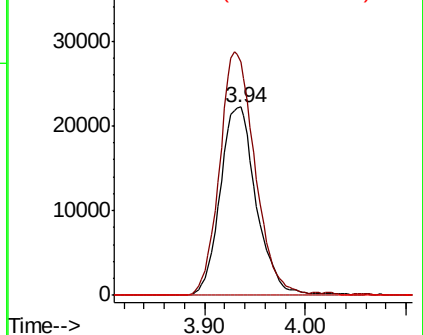


Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

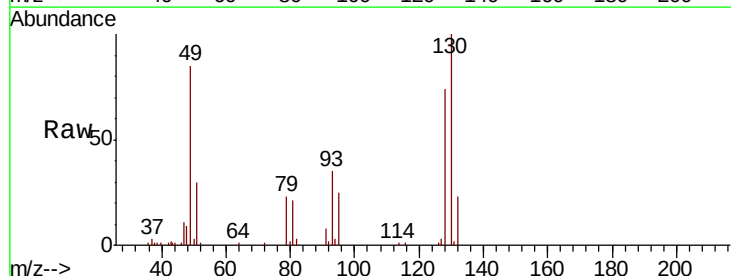
Ion 68.15 (67.85 to 68.85): VV0



#23

Bromochloromethane
Concen: 5.096 ug/L
RT: 4.27 min Scan# 989
Delta R.T. -0.03 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

Tgt Ion	128	Resp	25884
Ion	Ratio	Lower	Upper
128	100		
49	115.0	105.1	195.1
130	135.5	88.9	165.1
51	40.0	36.2	54.2



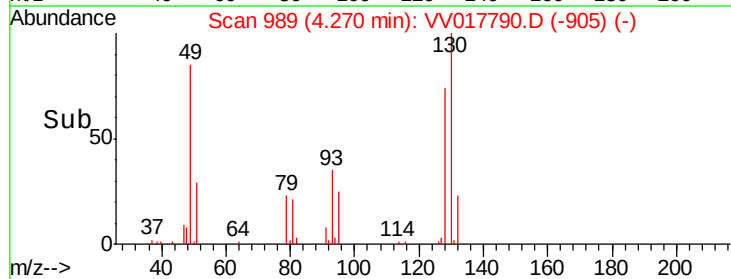
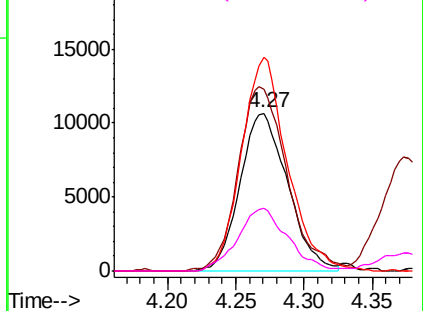
Abundance

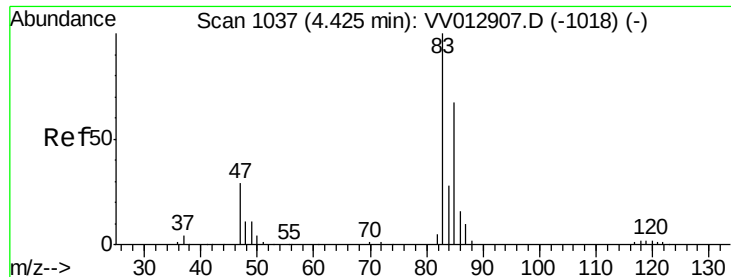
Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VV0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VV0

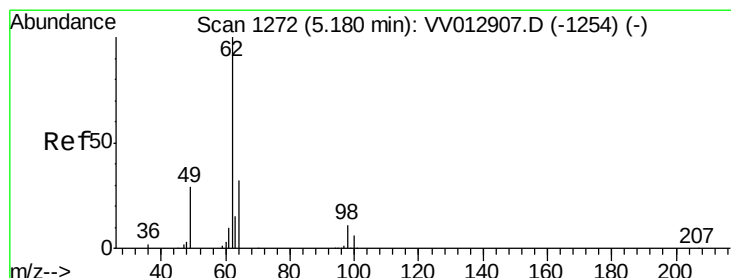
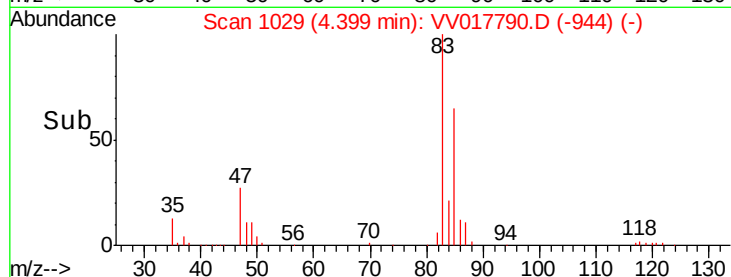
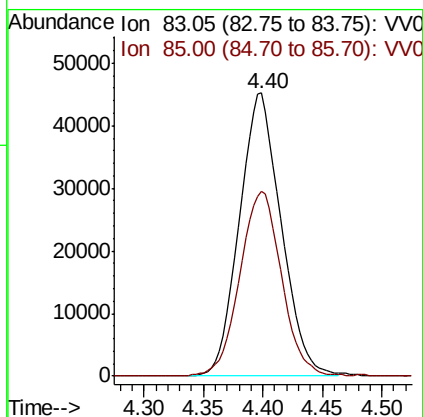
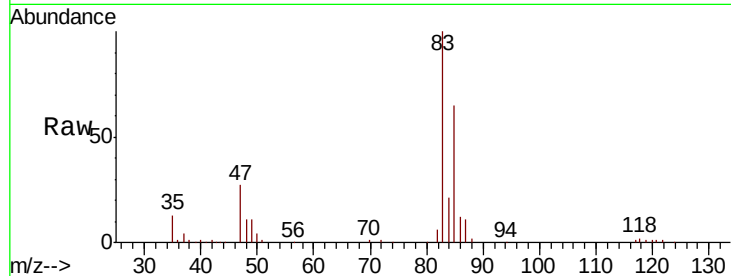




#25
Chloroform
Concen: 4.513 ug/L
RT: 4.40 min Scan# 1029
Delta R.T. -0.03 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

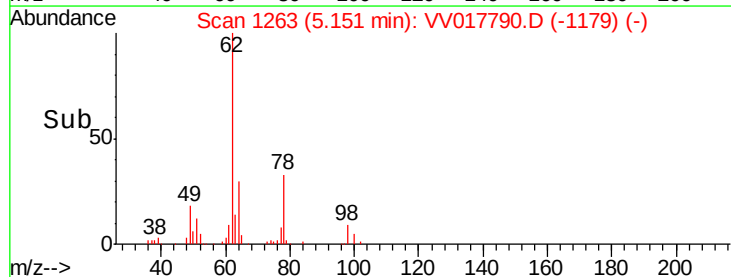
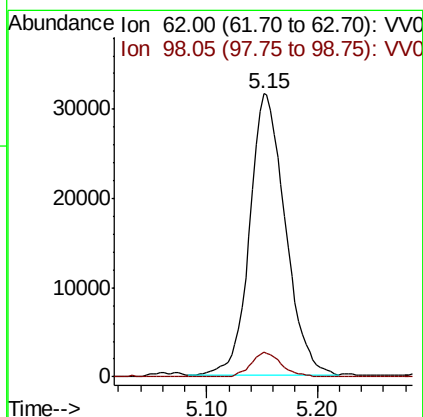
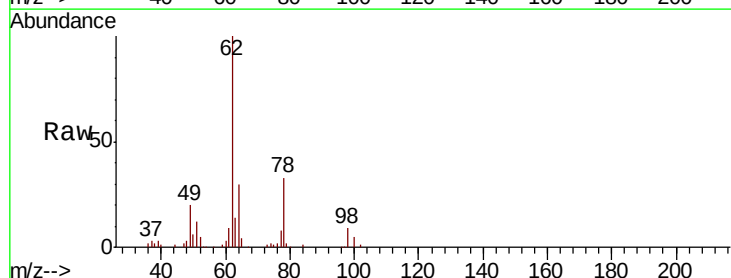
Instrument :
MSVOA_V
ClientSampleId :
VSTD005002

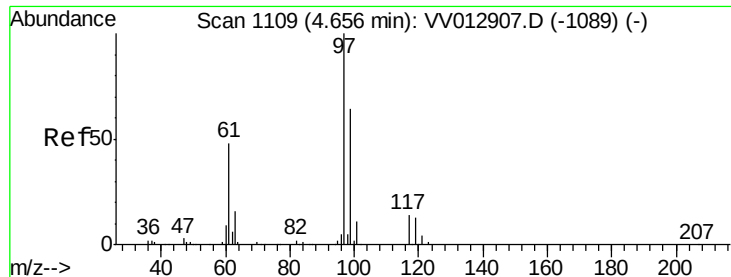
Tot Ion: 83 Resp: 110065
Ion Ratio Lower Upper
83 100
85 65.3 45.2 84.0



#27
1,2-Dichloroethane
Concen: 5.223 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. -0.03 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

Tgt Ion: 62 Resp: 70288
Ion Ratio Lower Upper
62 100
98 8.7 7.0 10.6



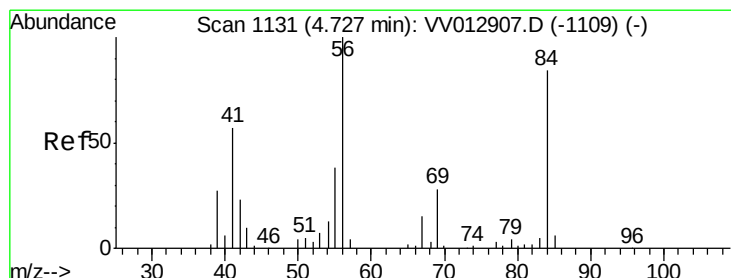
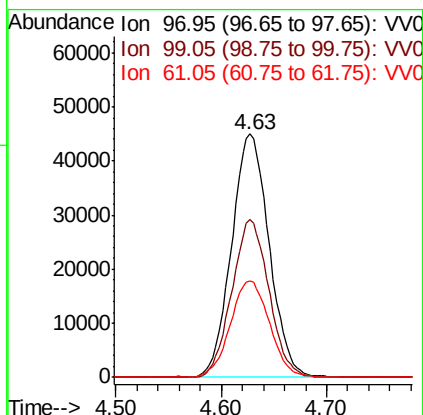
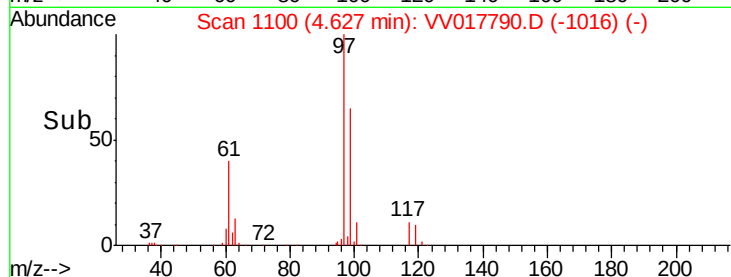
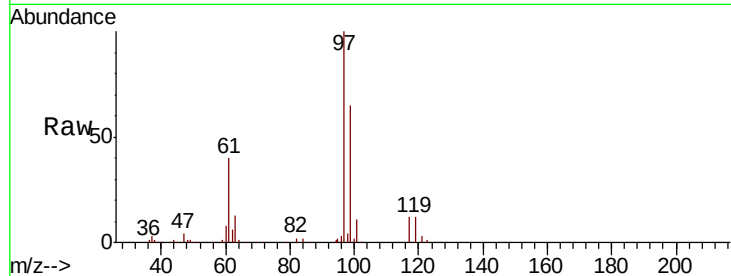


#29
 1,1,1-Trichloroethane
 Concen: 5.638 ug/L
 RT: 4.63 min Scan# 1100
 Delta R.T. -0.03 min
 Lab File: VV017790.D
 Acq: 03 Aug 2020 12:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005002

Tot Ion: 97 Resp: 111368

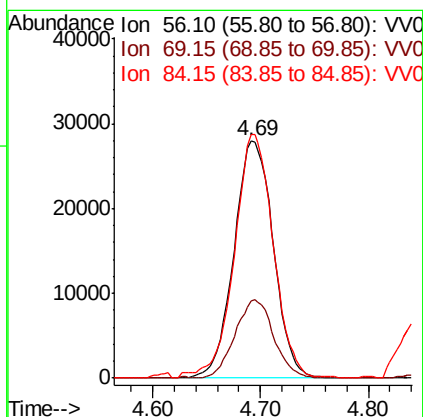
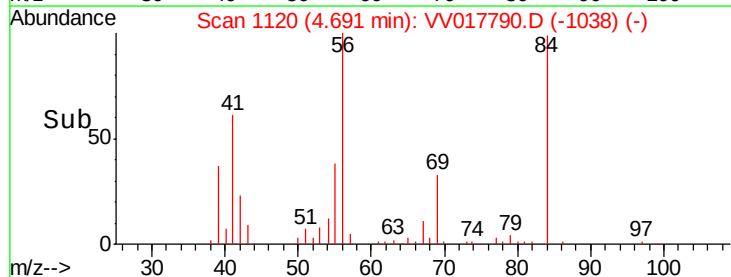
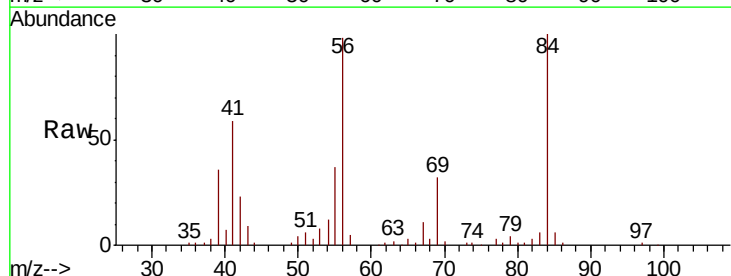
Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.8	77.8
61	40.7	34.5	51.7

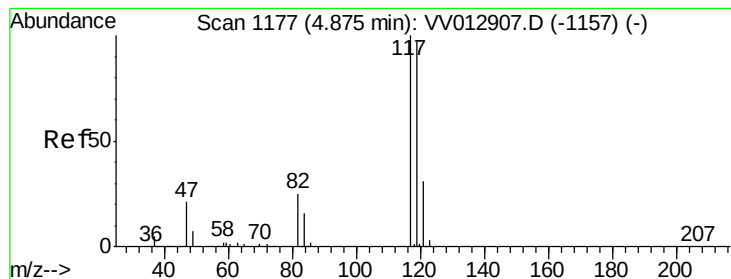


#30
 Cyclohexane
 Concen: 4.205 ug/L
 RT: 4.69 min Scan# 1120
 Delta R.T. -0.04 min
 Lab File: VV017790.D
 Acq: 03 Aug 2020 12:00

Tgt Ion: 56 Resp: 71051

Ion	Ratio	Lower	Upper
56	100		
69	32.5	24.8	37.2
84	98.9	75.4	113.2





#31

Carbon tetrachloride

Concen: 5.657 ug/L

RT: 4.85 min Scan# 1168

Delta R.T. -0.03 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

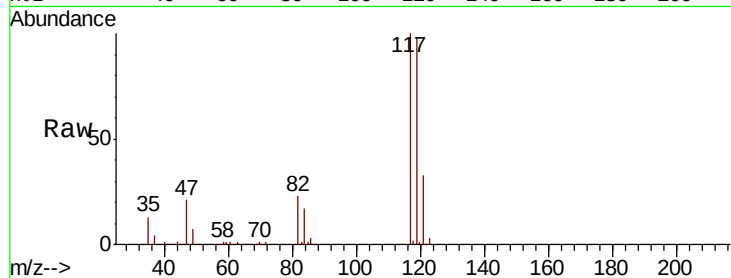
VSTD005002

Tot Ion:117 Resp: 100537

Ion Ratio Lower Upper

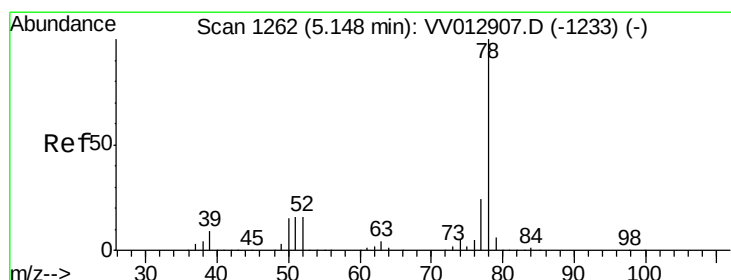
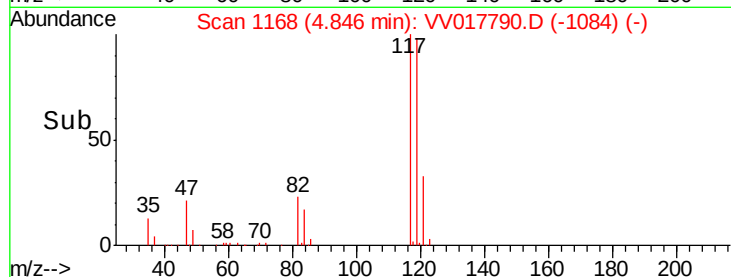
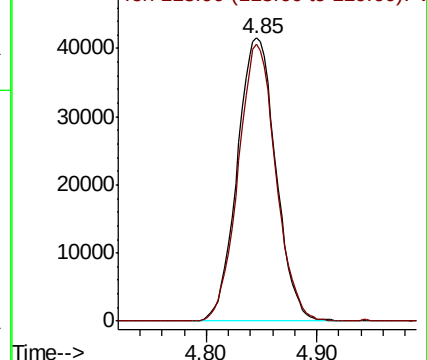
117 100

119 95.7 77.7 116.5



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.679 ug/L

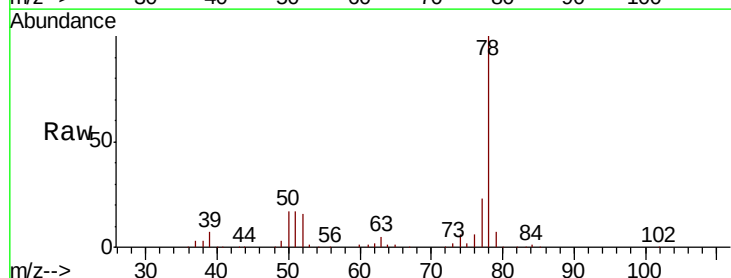
RT: 5.12 min Scan# 1253

Delta R.T. -0.03 min

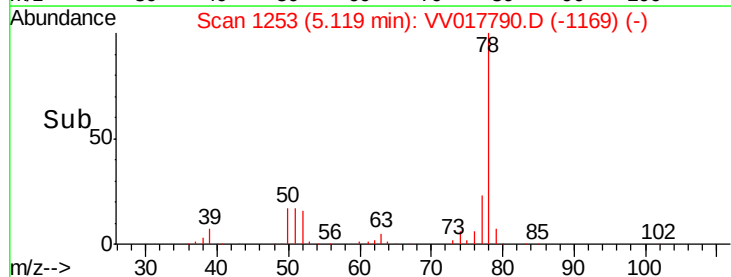
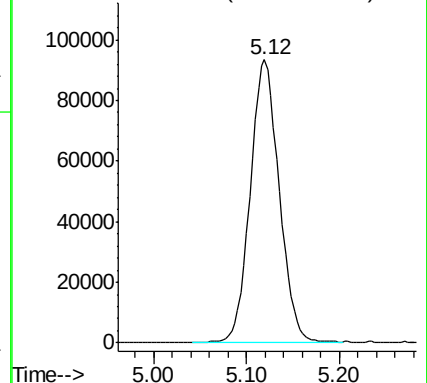
Lab File: VV017790.D

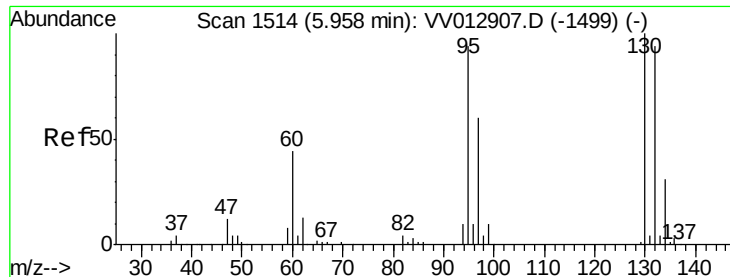
Acq: 03 Aug 2020 12:00

Tgt Ion: 78 Resp: 203093



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.801 ug/L

RT: 5.93 min Scan# 1506

Delta R.T. -0.03 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD005002

Tot Ion: 95 Resp: 59428

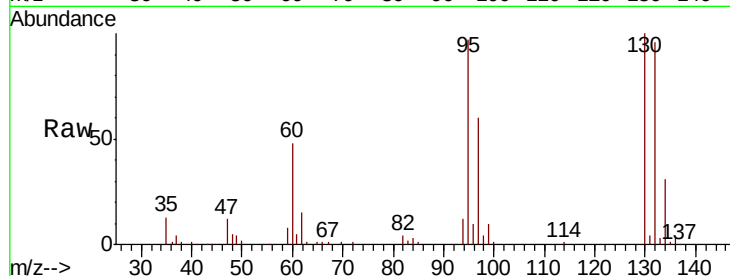
Ion Ratio Lower Upper

95 100

97 61.7 42.8 79.6

132 99.9 70.8 131.6

130 103.5 72.3 134.3

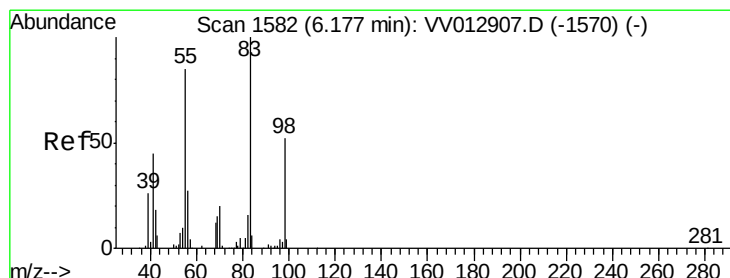
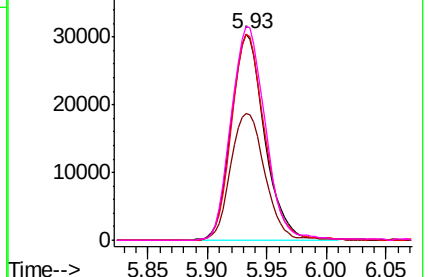
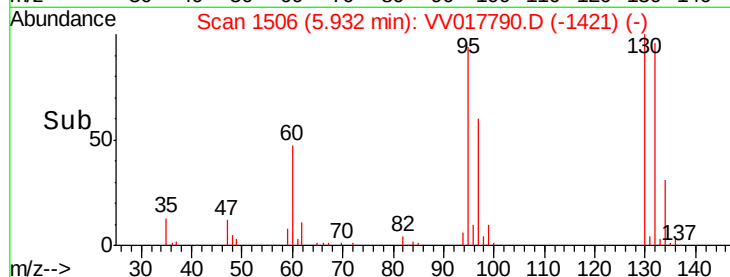


Abundance Ion 95.00 (94.70 to 95.70): VV012907.D (-1499) (-)

Ion 96.95 (96.65 to 97.65): VV012907.D (-1499) (-)

Ion 131.95 (131.65 to 132.65): VV012907.D (-1499) (-)

Ion 129.95 (129.65 to 130.65): VV012907.D (-1499) (-)



#35

Methylcyclohexane

Concen: 4.241 ug/L

RT: 6.15 min Scan# 1573

Delta R.T. -0.03 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

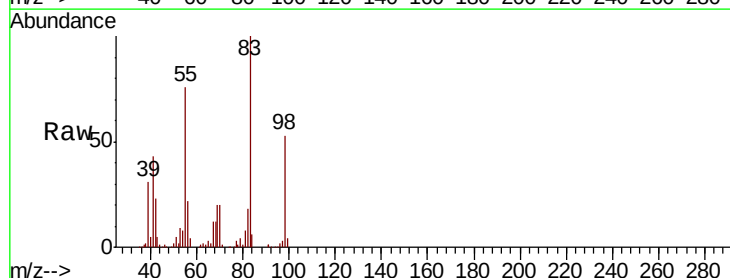
Tgt Ion: 83 Resp: 82246

Ion Ratio Lower Upper

83 100

55 75.9 60.1 90.1

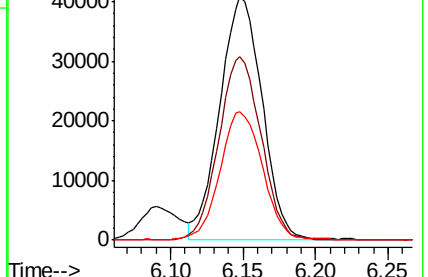
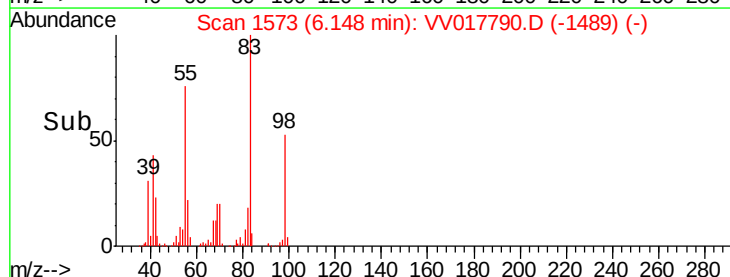
98 53.2 40.2 60.4

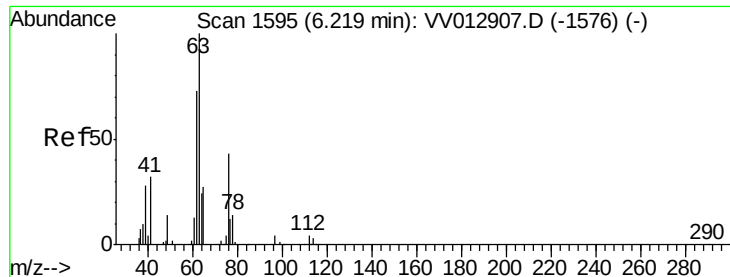


Abundance Ion 83.15 (82.85 to 83.85): VV012907.D (-1570) (-)

Ion 55.10 (54.80 to 55.80): VV012907.D (-1570) (-)

Ion 98.15 (97.85 to 98.85): VV012907.D (-1570) (-)

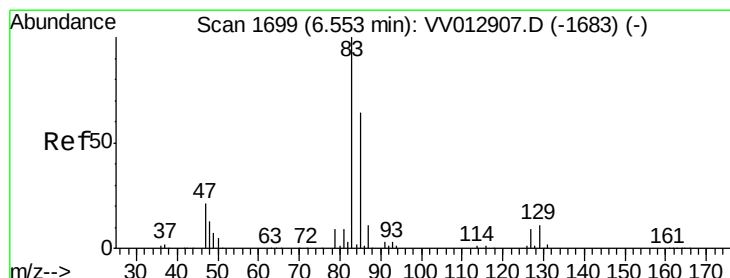
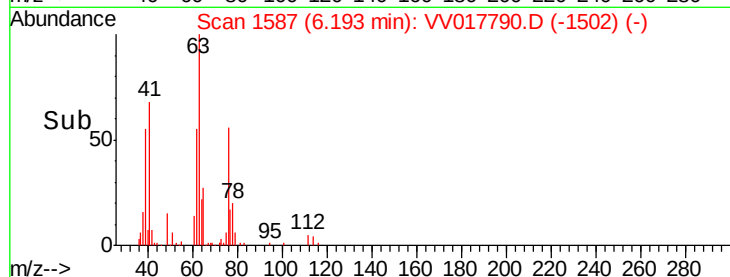
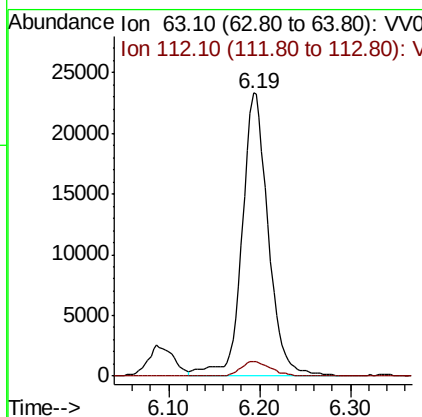
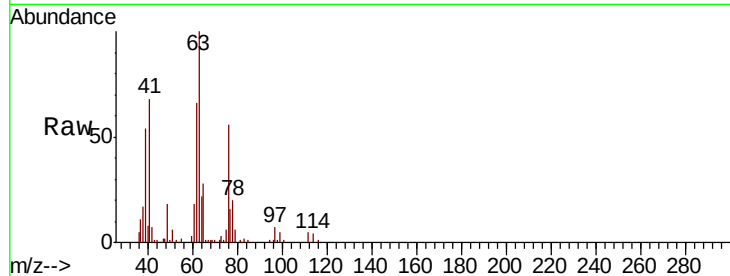




#37
 1,2-Dichloropropane
 Concen: 4.654 ug/L
 RT: 6.19 min Scan# 1587
 Delta R.T. -0.03 min
 Lab File: VV017790.D
 Acq: 03 Aug 2020 12:00

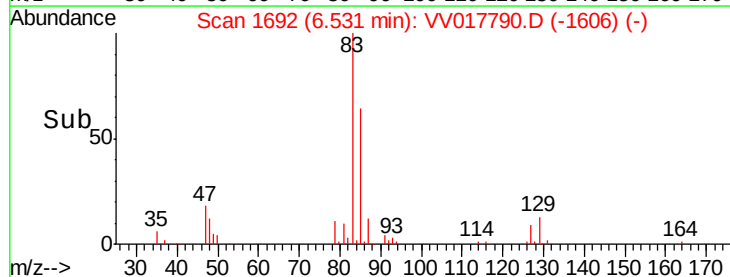
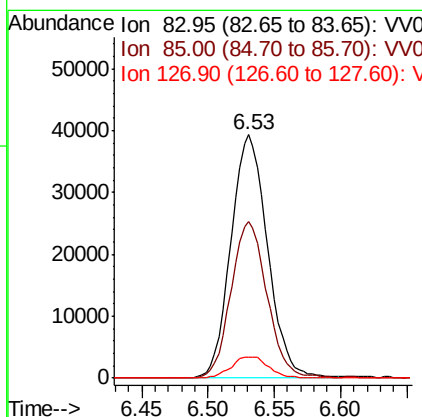
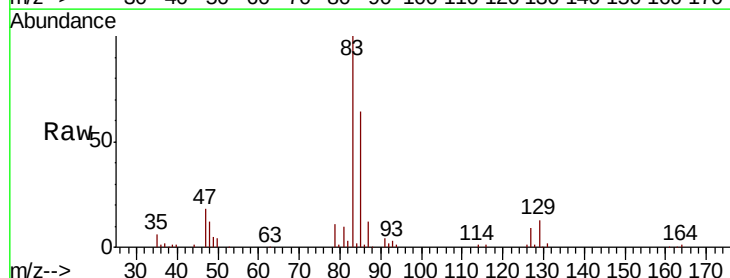
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005002

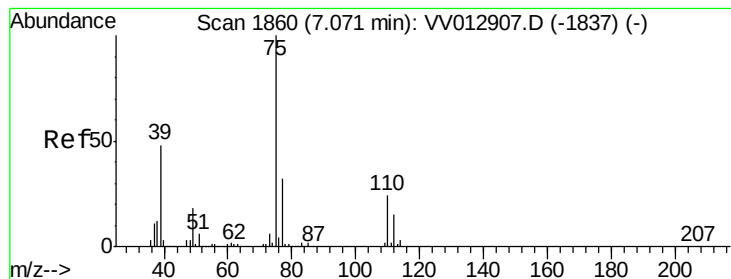
Tot Ion: 63 Resp: 46733
 Ion Ratio Lower Upper
 63 100
 112 5.8 3.8 5.6#



#38
 Bromodichloromethane
 Concen: 5.341 ug/L
 RT: 6.53 min Scan# 1692
 Delta R.T. -0.02 min
 Lab File: VV017790.D
 Acq: 03 Aug 2020 12:00

Tgt Ion: 83 Resp: 75725
 Ion Ratio Lower Upper
 83 100
 85 64.2 43.9 81.5
 127 8.5 6.9 10.3





#39

cis-1,3-Dichloropropene

Concen: 4.693 ug/L

RT: 7.04 min Scan# 1852

Delta R.T. -0.03 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

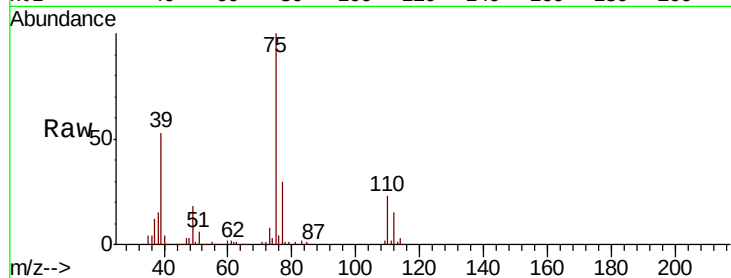
VSTD005002

Tot Ion: 75 Resp: 73896

Ion Ratio Lower Upper

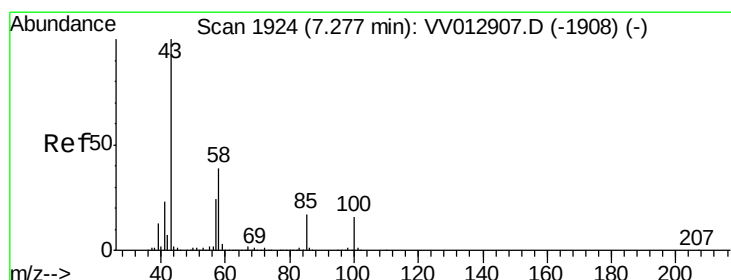
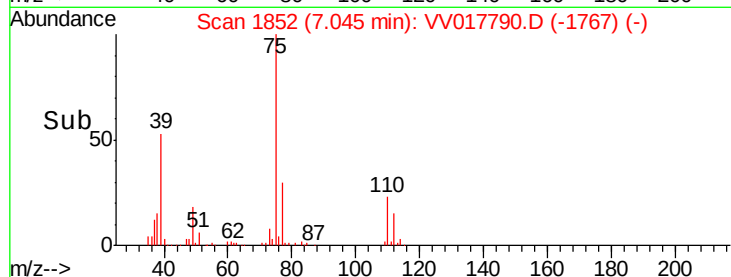
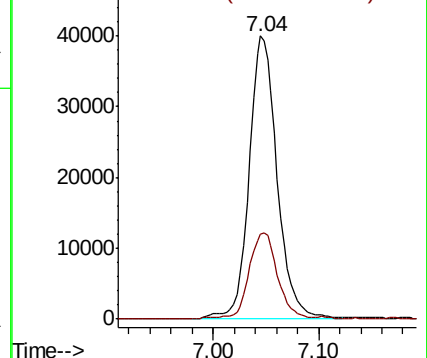
75 100

77 29.9 22.4 41.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#40

4-Methyl-2-pentanone

Concen: 41.345 ug/L

RT: 7.25 min Scan# 1916

Delta R.T. -0.03 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

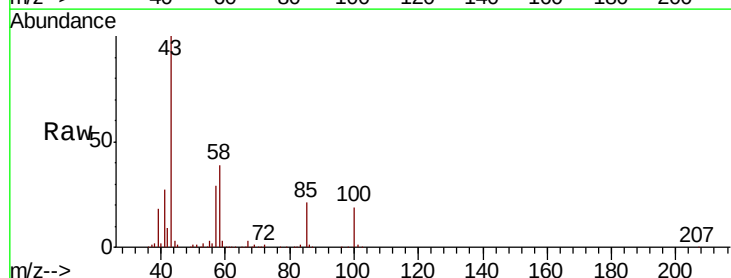
Tgt Ion: 43 Resp: 234201

Ion Ratio Lower Upper

43 100

58 39.6 31.9 47.9

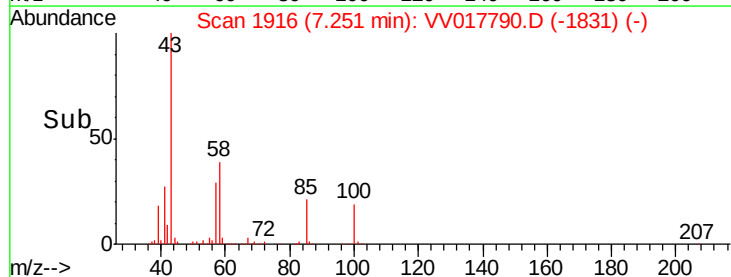
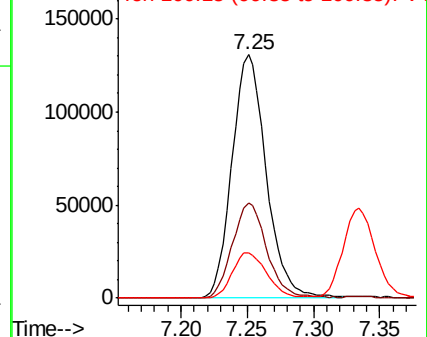
100 19.0 14.0 21.0

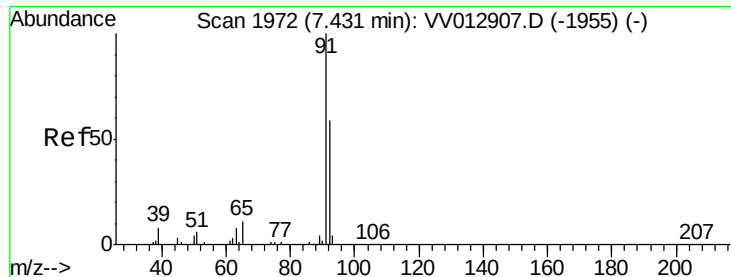


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 4.774 ug/L

RT: 7.41 min Scan# 1964

Delta R.T. -0.03 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

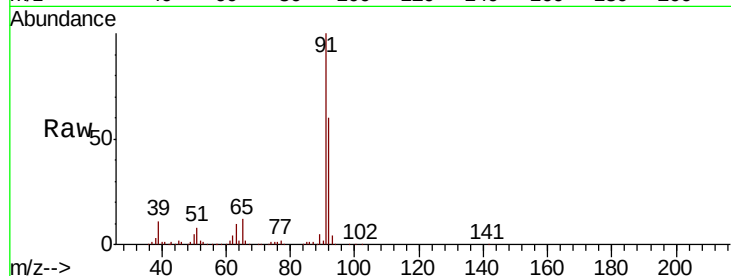
VSTD005002

Tot Ion: 91 Resp: 230395

Ion Ratio Lower Upper

91 100

92 60.3 41.3 76.7



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.41

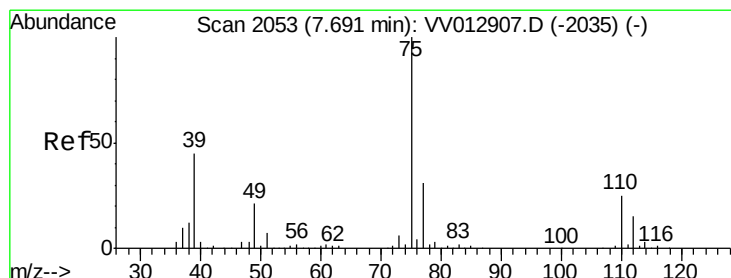
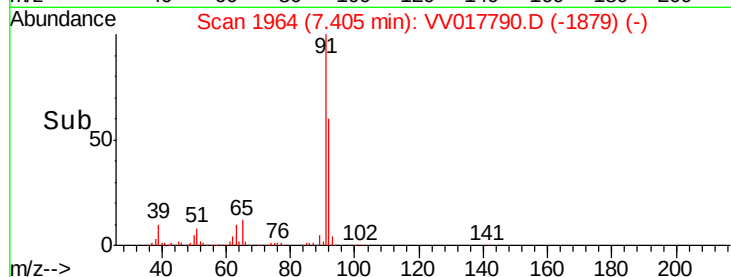
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.217 ug/L

RT: 7.67 min Scan# 2047

Delta R.T. -0.02 min

Lab File: VV017790.D

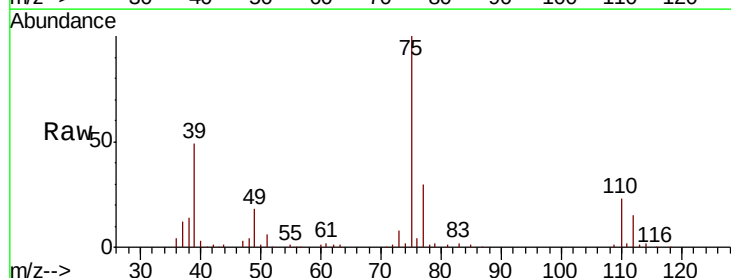
Acq: 03 Aug 2020 12:00

Tgt Ion: 75 Resp: 66417

Ion Ratio Lower Upper

75 100

77 30.4 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.67

40000

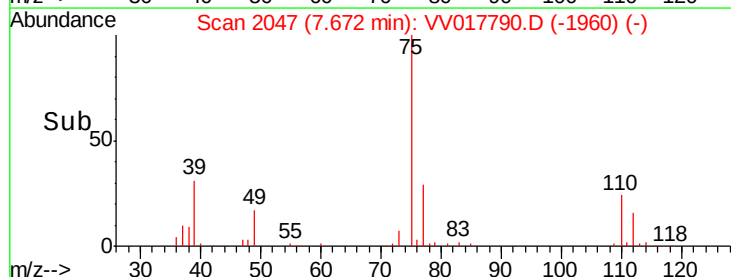
30000

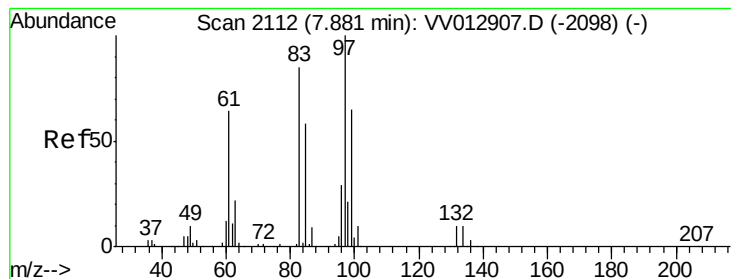
20000

10000

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.537 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD005002

Tot Ion: 97 Resp: 34746

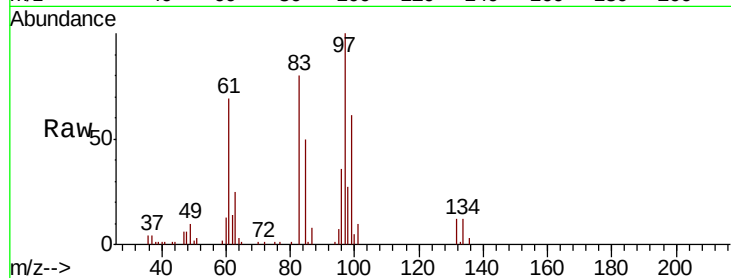
Ion Ratio Lower Upper

97 100

99 61.2 42.0 78.0

83 79.5 57.6 107.0

85 50.5 34.6 64.2



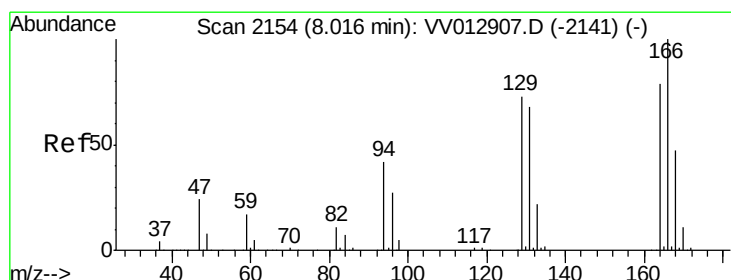
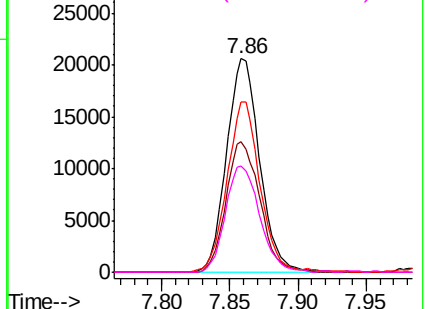
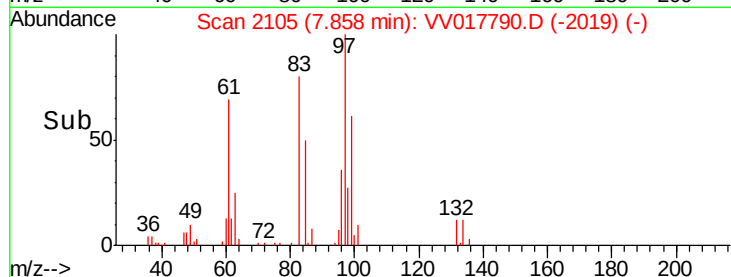
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 4.959 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Tgt Ion: 164 Resp: 53648

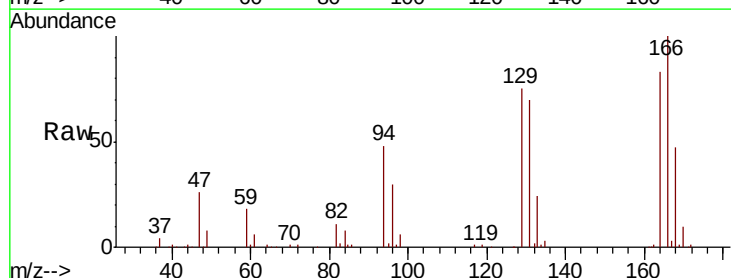
Ion Ratio Lower Upper

164 100

129 91.0 61.9 114.9

131 84.7 59.4 110.4

166 120.5 89.6 166.4



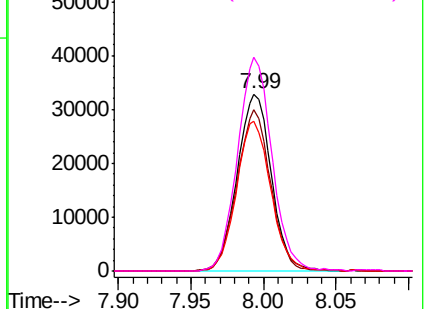
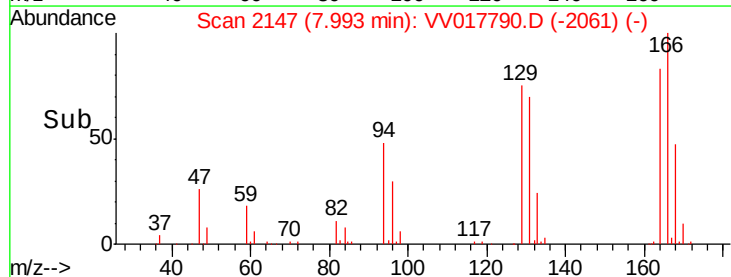
Abundance

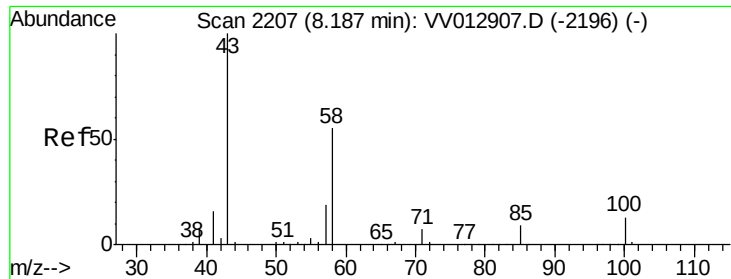
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

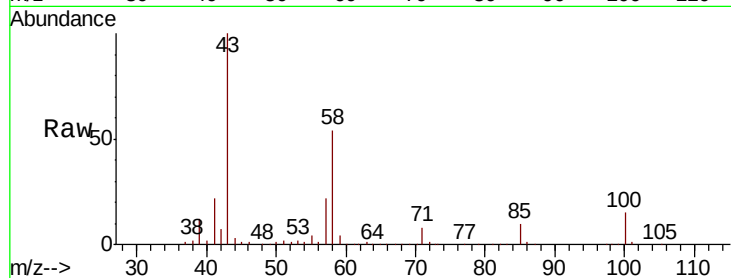




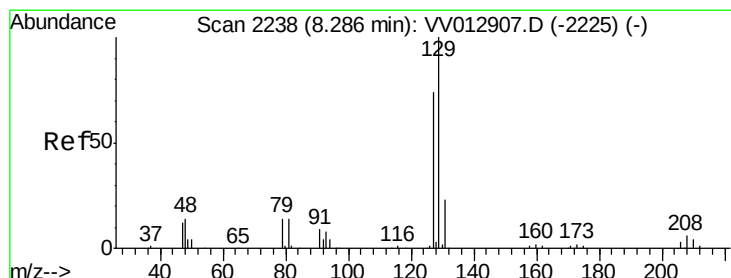
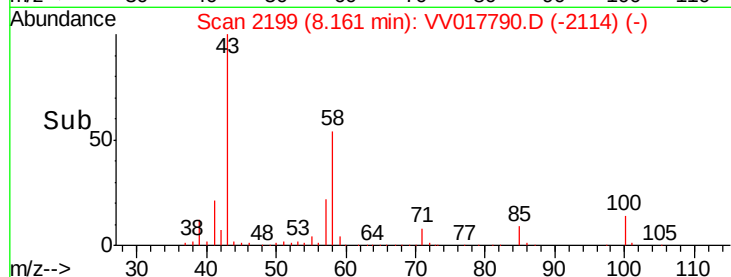
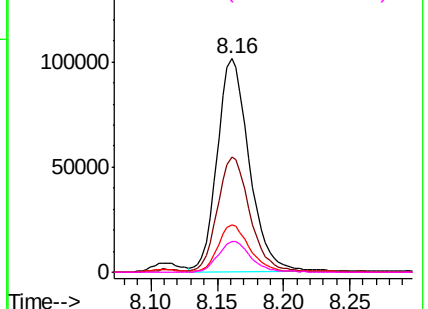
#48
2-Hexanone
Concen: 42.288 ug/L
RT: 8.16 min Scan# 2199
Delta R.T. -0.03 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

Instrument :
MSVOA_V
ClientSampleId :
VSTD005002

Tot Ion: 43 Resp: 169295
Ion Ratio Lower Upper
43 100
58 54.6 44.1 66.1
57 22.4 16.1 24.1
100 15.0 11.3 16.9

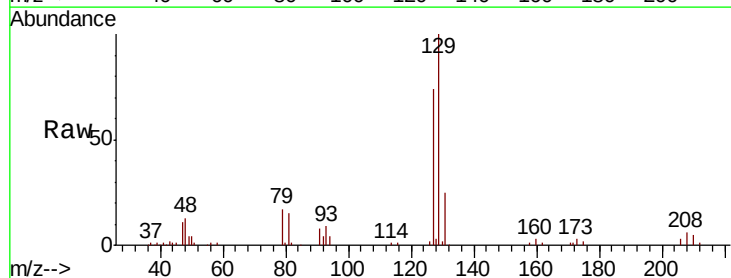


Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0

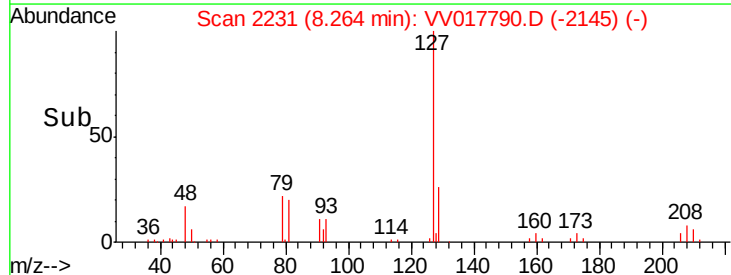
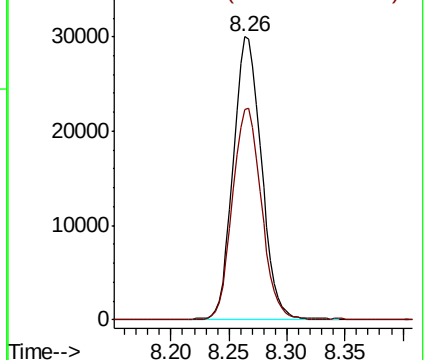


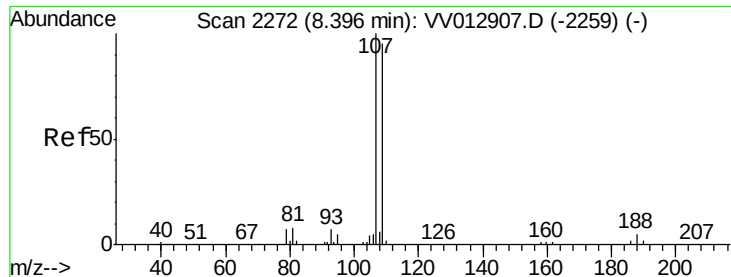
#49
Dibromochloromethane
Concen: 5.403 ug/L
RT: 8.26 min Scan# 2231
Delta R.T. -0.02 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

Tgt Ion: 129 Resp: 50730
Ion Ratio Lower Upper
129 100
127 74.3 55.4 102.8



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#50

1,2-Dibromoethane

Concen: 4.469 ug/L

RT: 8.37 min Scan# 2265

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD005002

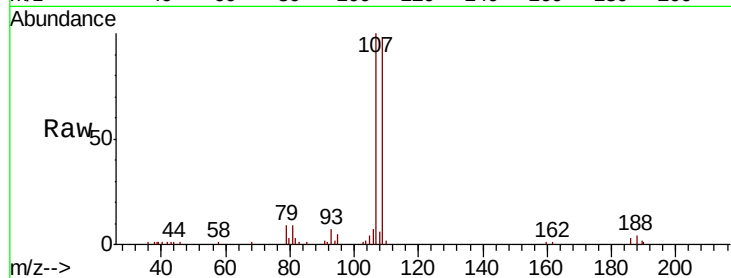
Tot Ion:107 Resp: 31990

Ion Ratio Lower Upper

107 100

109 98.5 66.3 123.1

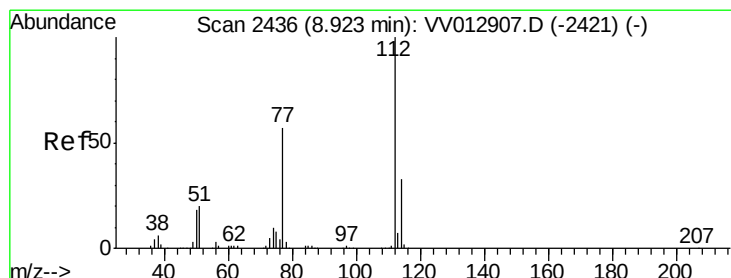
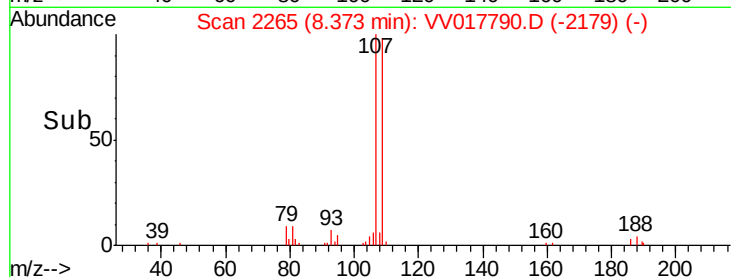
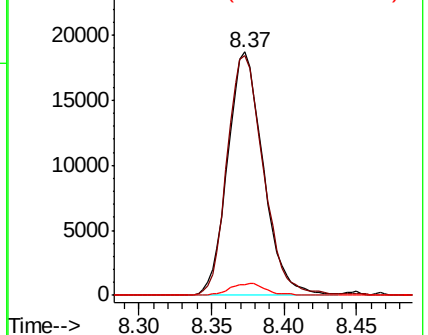
188 4.4 3.4 5.0



Abundance Ion 106.95 (106.65 to 107.65): V

Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.744 ug/L

RT: 8.90 min Scan# 2429

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

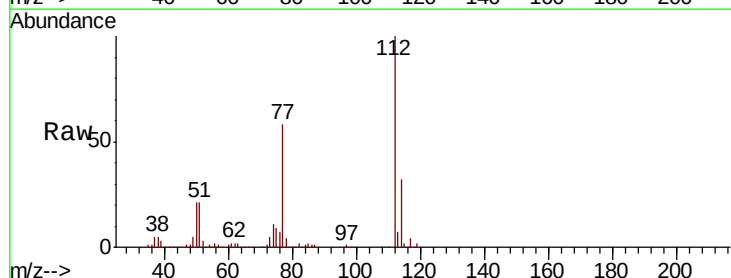
Tgt Ion:112 Resp: 153067

Ion Ratio Lower Upper

112 100

114 31.7 22.1 41.1

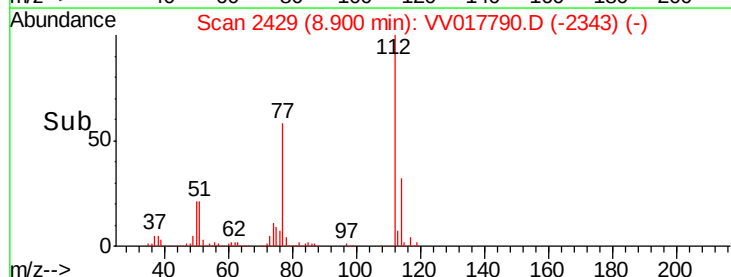
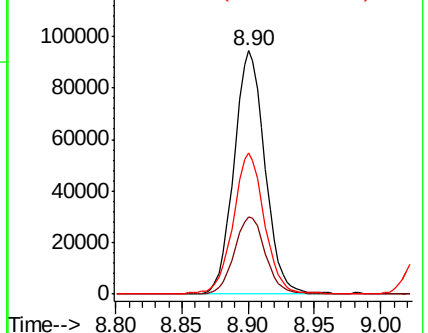
77 58.3 45.9 68.9

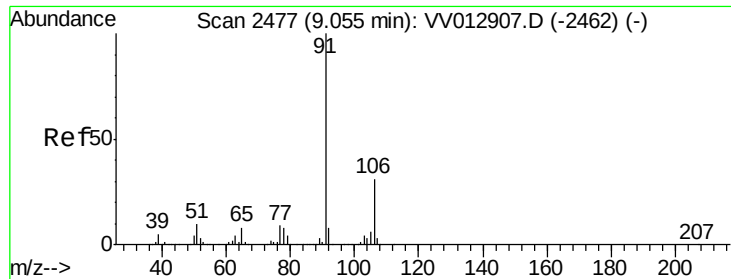


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 4.726 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

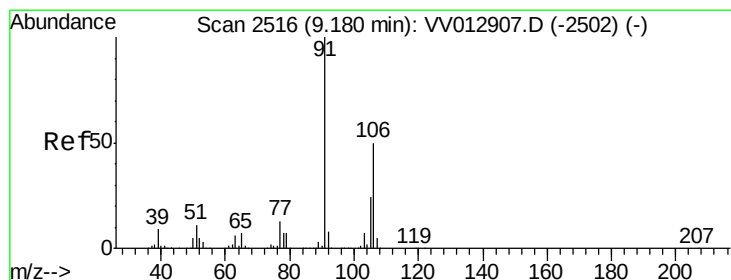
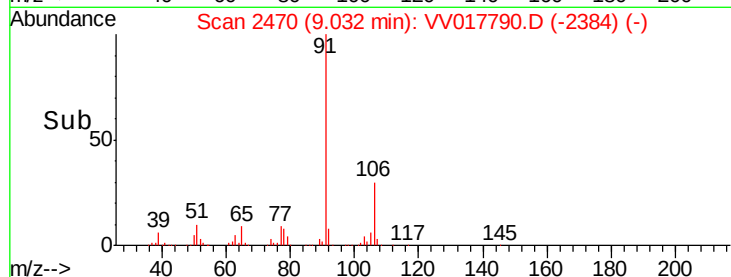
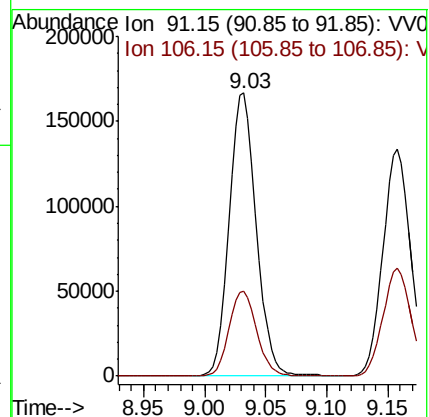
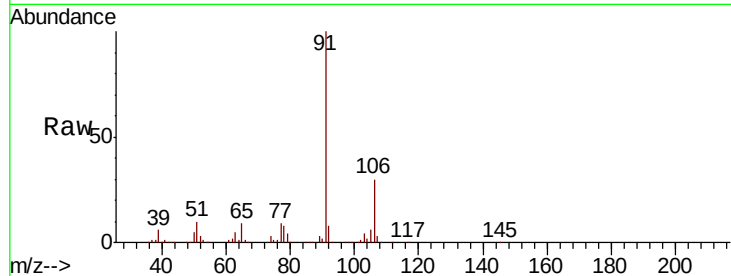
VSTD005002

Tot Ion: 91 Resp: 260239

Ion Ratio Lower Upper

91 100

106 29.9 21.6 40.2



#53

m,p-xylene

Concen: 4.898 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.02 min

Lab File: VV017790.D

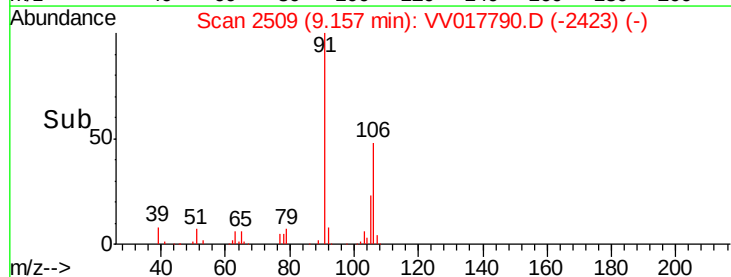
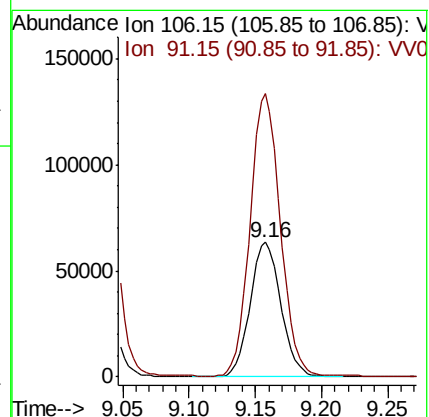
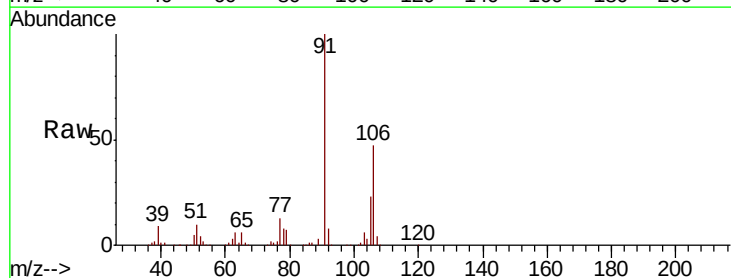
Acq: 03 Aug 2020 12:00

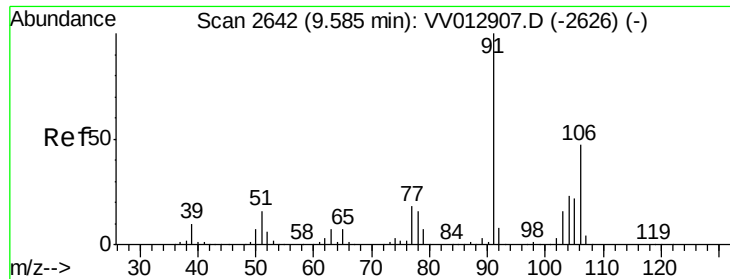
Tgt Ion: 106 Resp: 102673

Ion Ratio Lower Upper

106 100

91 210.6 141.6 263.0

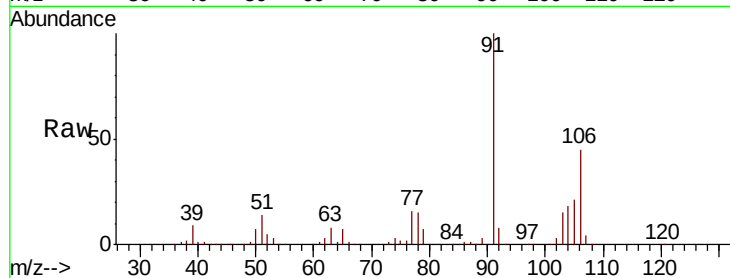




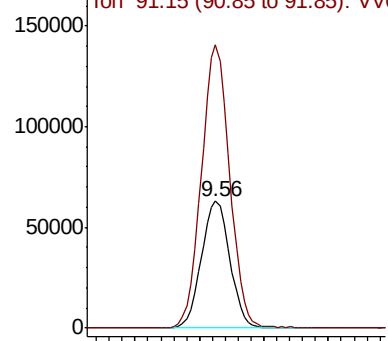
#54
o-xylene
Concen: 4.879 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.02 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

Instrument :
MSVOA_V
ClientSampleId :
VSTD005002

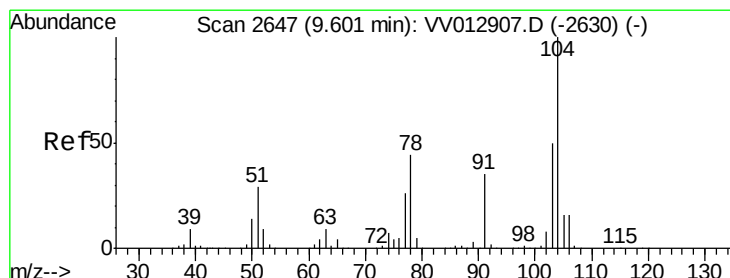
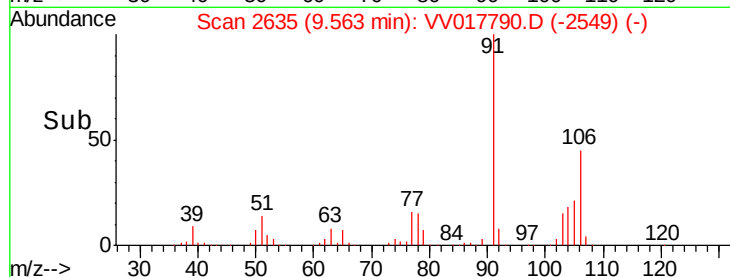
Tot Ion:106 Resp: 96805
Ion Ratio Lower Upper
106 100
91 222.6 146.8 272.6



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

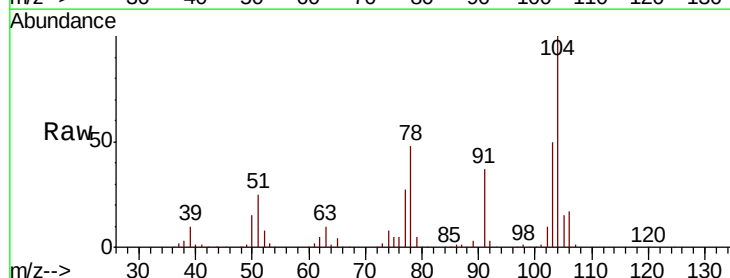


Time-->

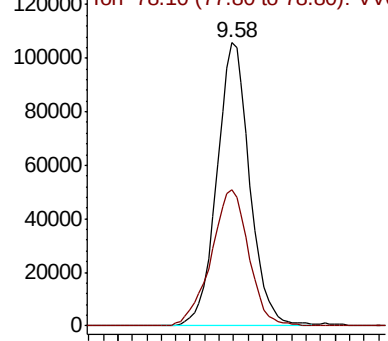


#55
Styrene
Concen: 4.970 ug/L
RT: 9.58 min Scan# 2640
Delta R.T. -0.02 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

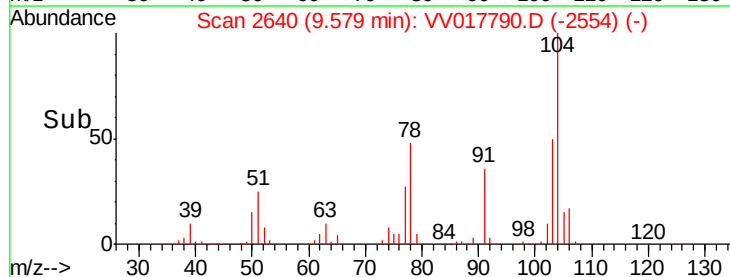
Tgt Ion:104 Resp: 166157
Ion Ratio Lower Upper
104 100
78 48.1 33.3 61.9

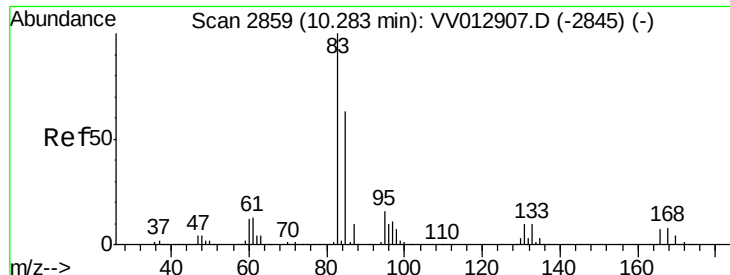


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0



Time-->

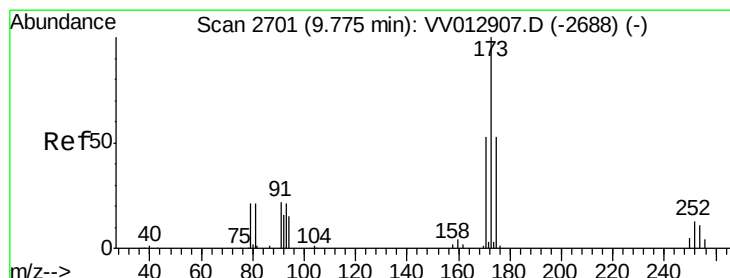
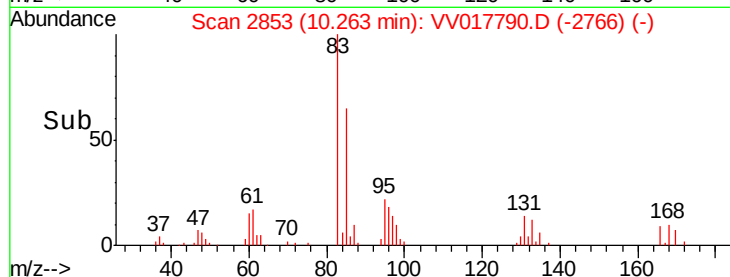
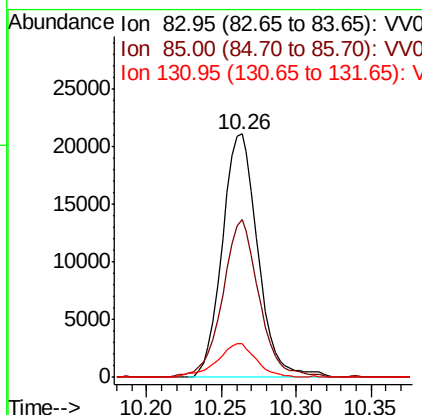
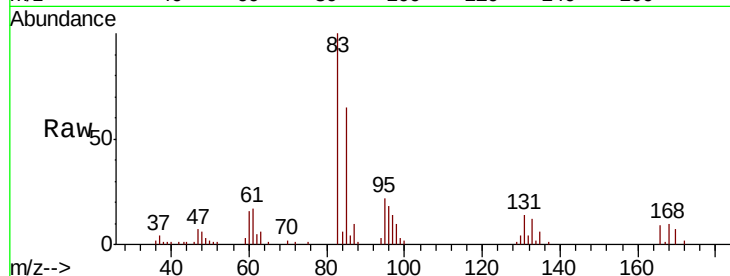




#57
 1,1,2,2-Tetrachloroethane
 Concen: 4.254 ug/L
 RT: 10.26 min Scan# 2853
 Delta R.T. -0.02 min
 Lab File: VV017790.D
 Acq: 03 Aug 2020 12:00

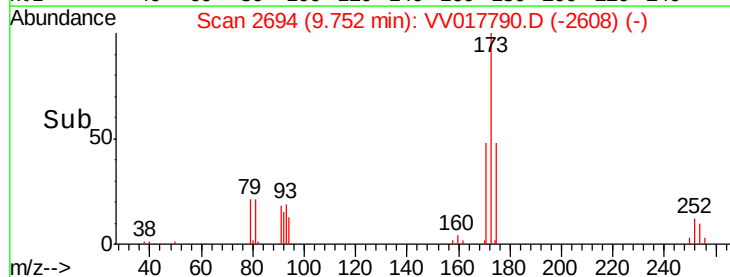
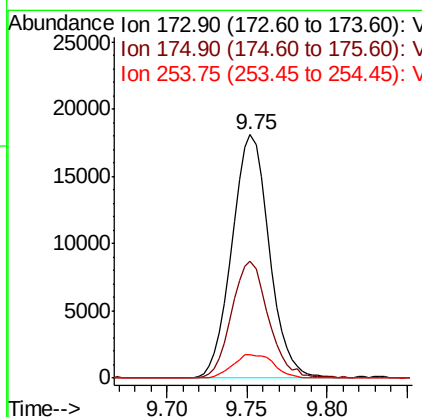
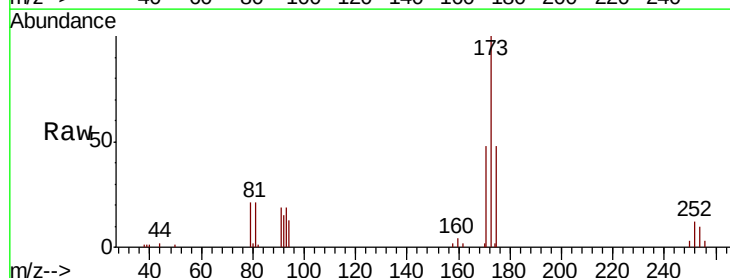
Instrument :
 MSVOA_V
 ClientSampled :
 VSTD005002

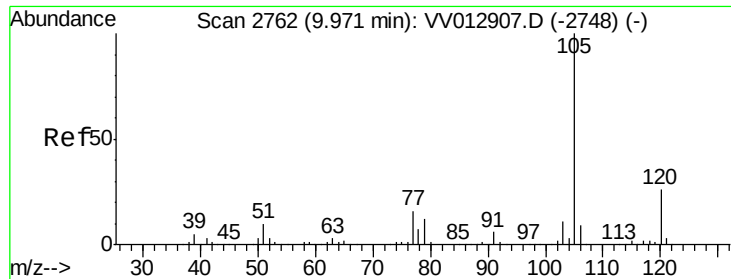
Tot Ion	83	Resp	34964
Ion Ratio	Lower	Upper	
83	100		
85	64.7	44.0	81.6
131	13.6	8.3	12.5#



#59
 Bromoform
 Concen: 5.346 ug/L
 RT: 9.75 min Scan# 2694
 Delta R.T. -0.02 min
 Lab File: VV017790.D
 Acq: 03 Aug 2020 12:00

Tgt Ion	173	Resp	28647
Ion Ratio	Lower	Upper	
173	100		
175	47.6	38.3	57.5
254	10.7	8.6	13.0





#60

Isopropylbenzene

Concen: 4.862 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD005002

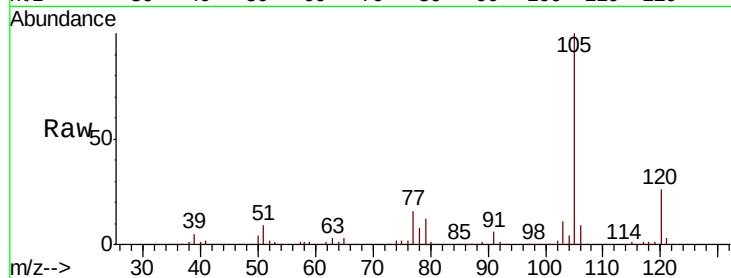
Tot Ion:105 Resp: 275341

Ion Ratio Lower Upper

105 100

120 25.6 21.5 32.3

77 15.9 12.3 18.5

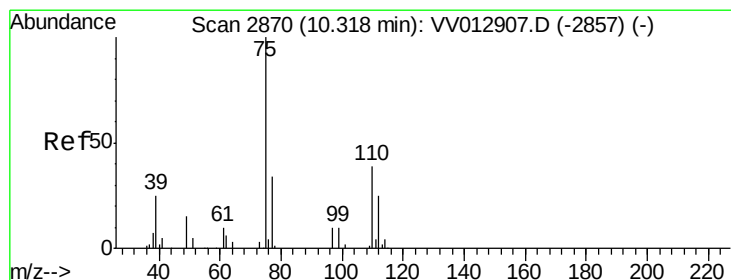
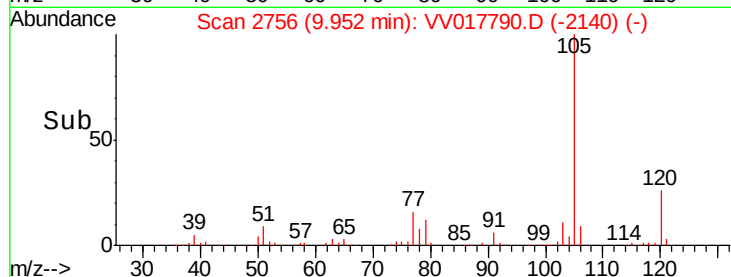
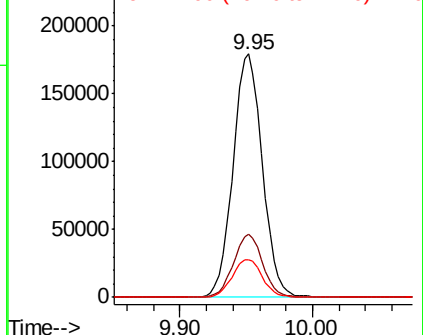


Abundance

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



#61

1,2,3-Trichloropropane

Concen: 4.432 ug/L

RT: 10.30 min Scan# 2863

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

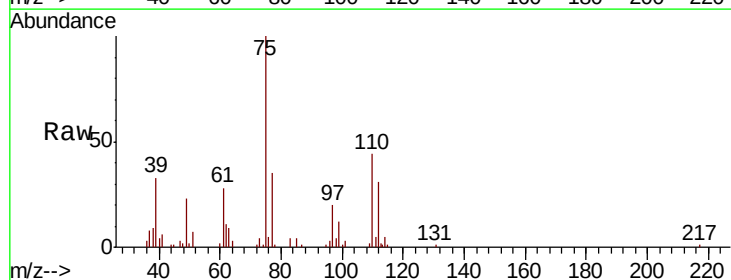
Tgt Ion: 75 Resp: 28634

Ion Ratio Lower Upper

75 100

77 33.7 26.8 40.2

110 44.5 35.0 52.6

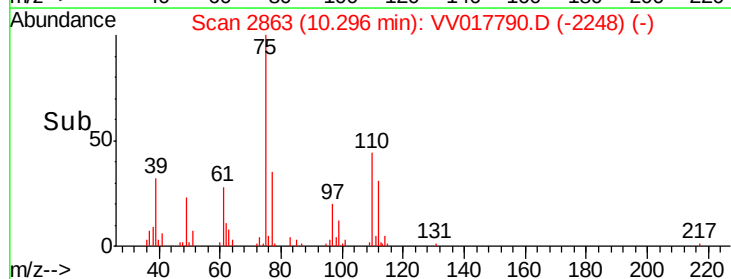
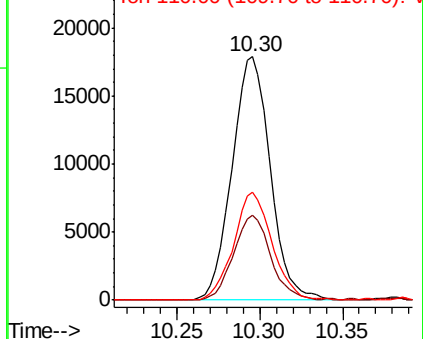


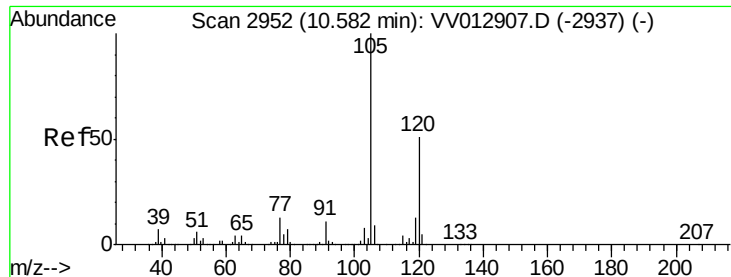
Abundance

Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0

Ion 110.00 (109.70 to 110.70): V





#62

1,3,5-Trimethylbenzene

Concen: 4.991 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

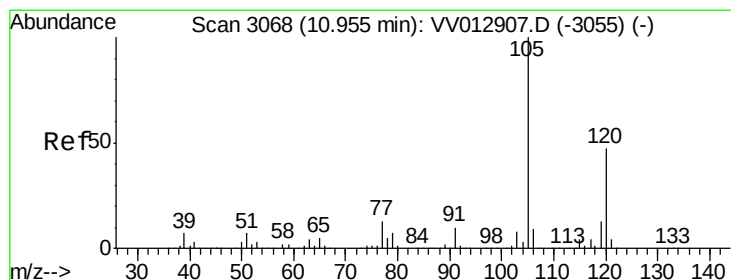
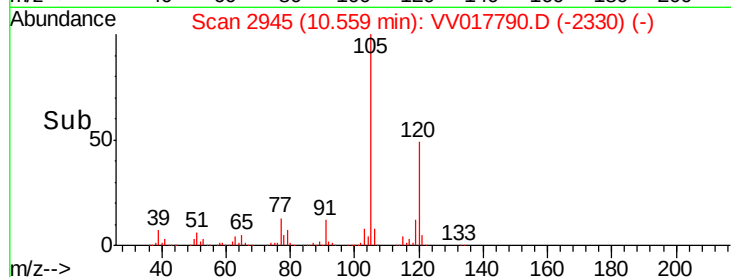
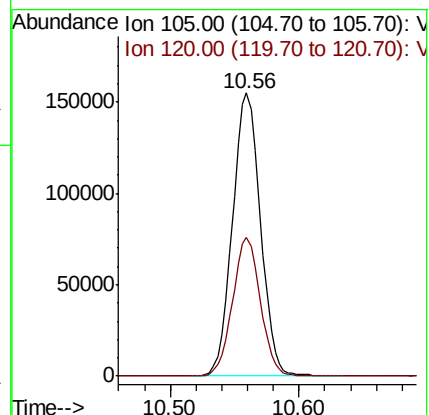
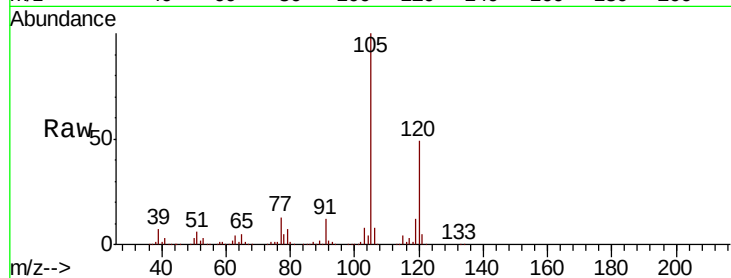
VSTD005002

Tot Ion:105 Resp: 233373

Ion Ratio Lower Upper

105 100

120 48.8 40.1 60.1



#63

1,2,4-Trimethylbenzene

Concen: 5.097 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. -0.02 min

Lab File: VV017790.D

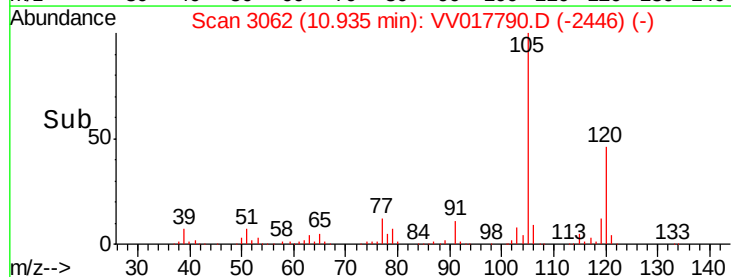
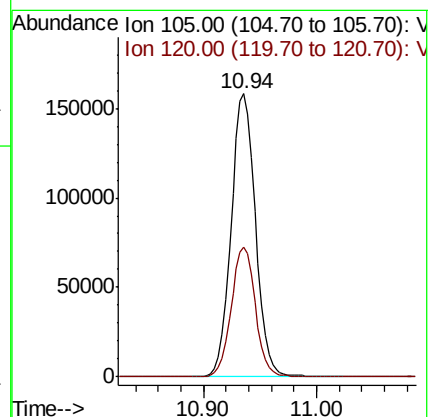
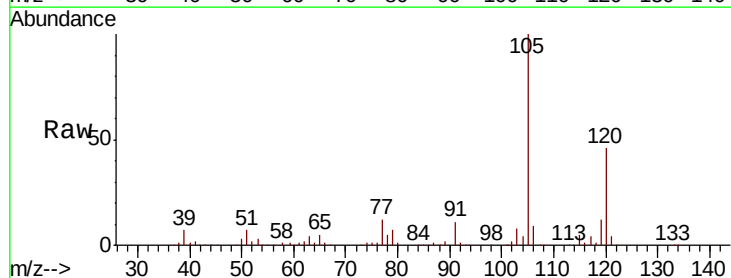
Acq: 03 Aug 2020 12:00

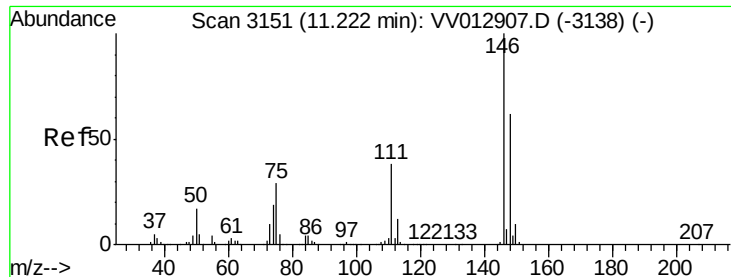
Tgt Ion:105 Resp: 236828

Ion Ratio Lower Upper

105 100

120 45.4 35.8 53.8





#64

1,3-Dichlorobenzene

Concen: 4.857 ug/L

RT: 11.20 min Scan# 3145

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD005002

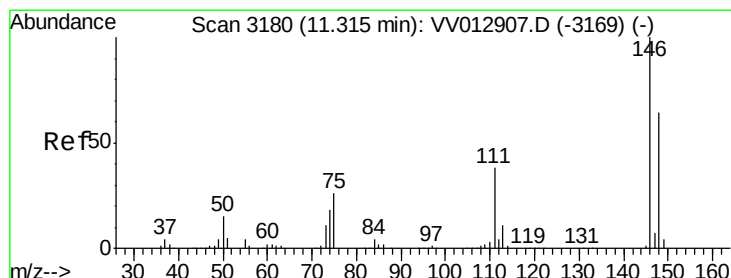
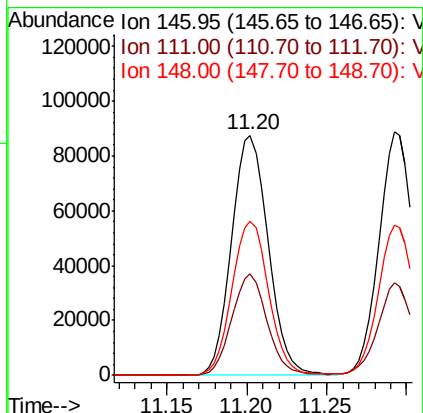
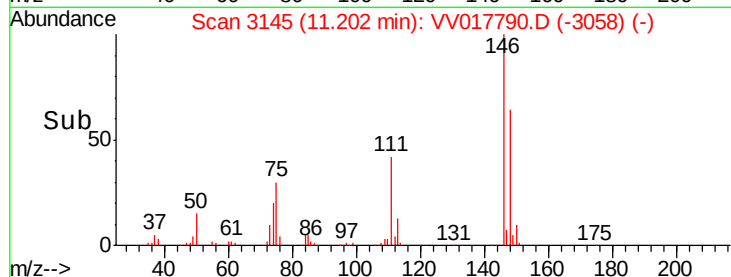
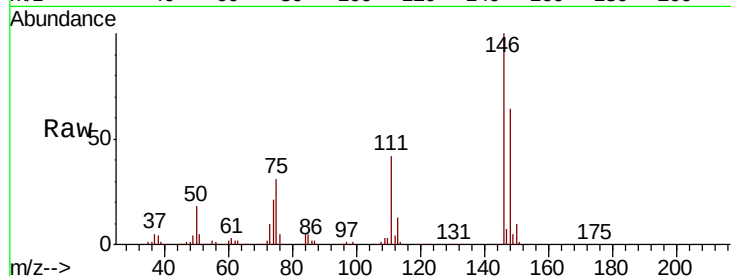
Tot Ion:146 Resp: 137072

Ion Ratio Lower Upper

146 100

111 42.3 27.2 50.6

148 64.2 44.5 82.7



#65

1,4-Dichlorobenzene

Concen: 4.775 ug/L

RT: 11.29 min Scan# 3173

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

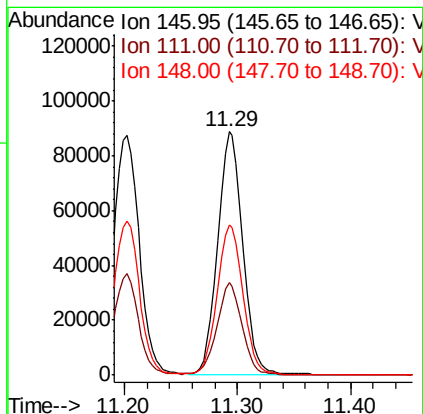
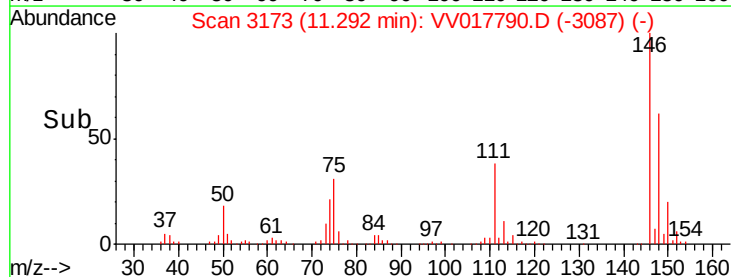
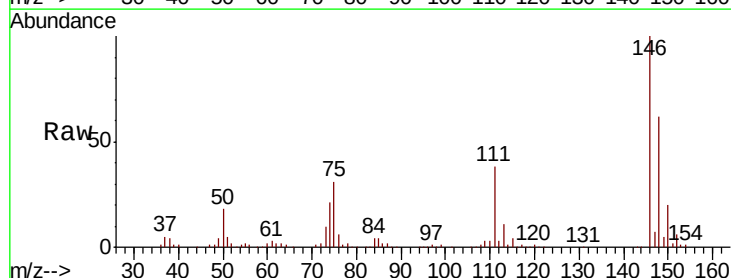
Tgt Ion:146 Resp: 137338

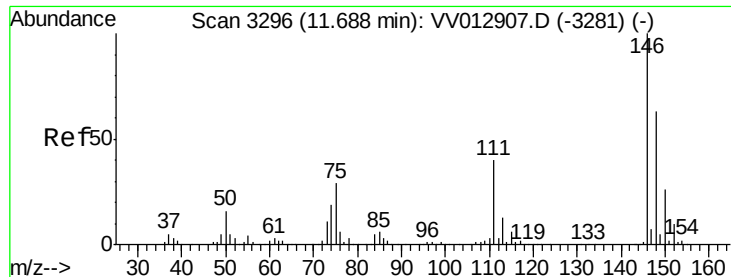
Ion Ratio Lower Upper

146 100

111 38.1 25.8 48.0

148 61.7 43.8 81.3





#67

1,2-Dichlorobenzene

Concen: 4.841 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.02 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD005002

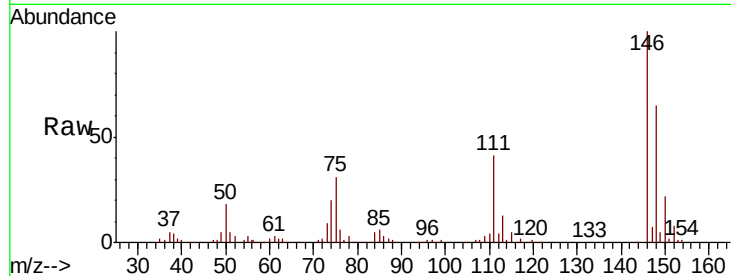
Tot Ion:146 Resp: 124149

Ion Ratio Lower Upper

146 100

111 40.9 32.4 48.6

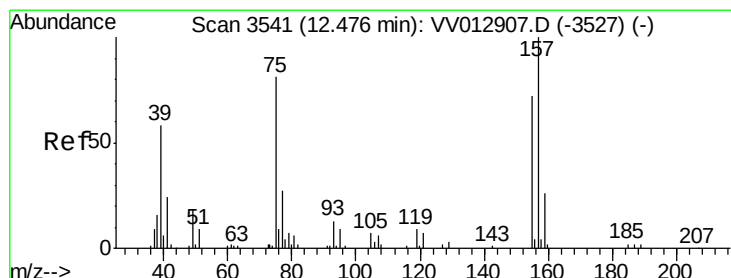
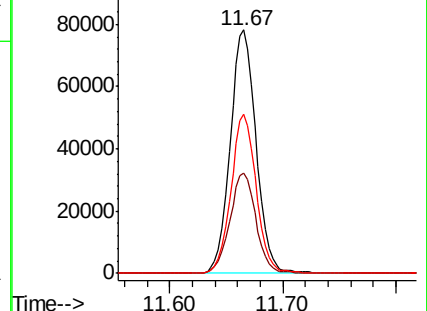
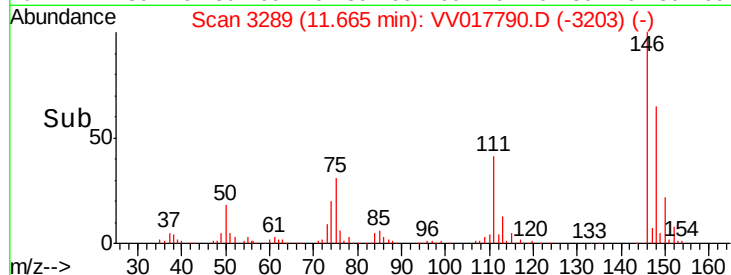
148 65.1 49.4 74.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 5.373 ug/L

RT: 12.45 min Scan# 3533

Delta R.T. -0.03 min

Lab File: VV017790.D

Acq: 03 Aug 2020 12:00

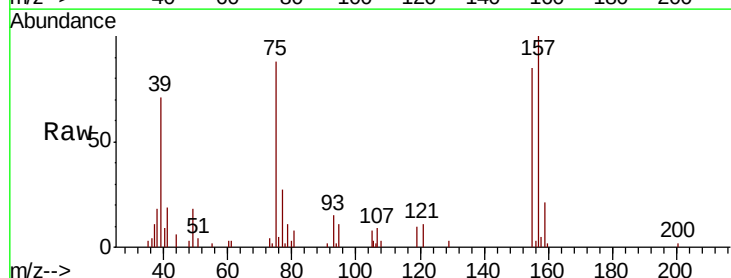
Tgt Ion: 75 Resp: 7158

Ion Ratio Lower Upper

75 100

155 96.4 75.0 112.6

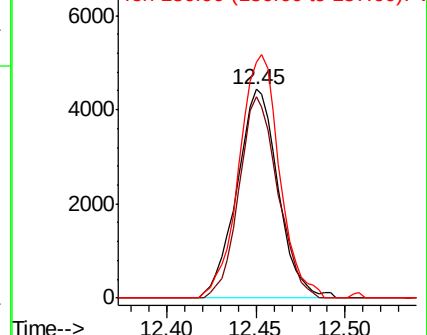
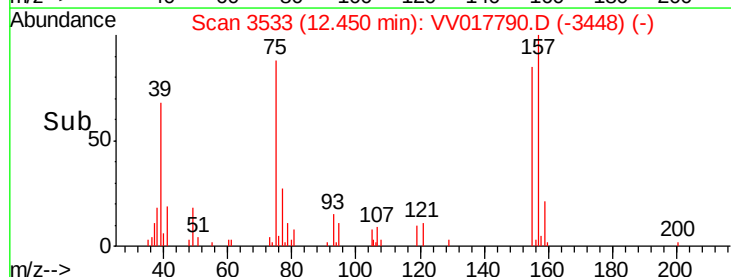
157 113.0 87.8 131.6

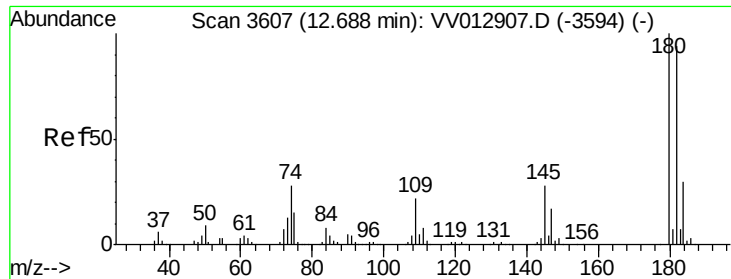


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

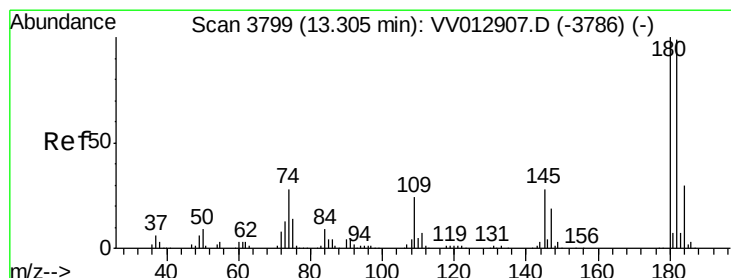
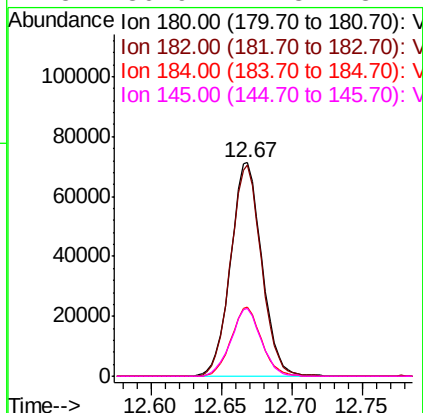
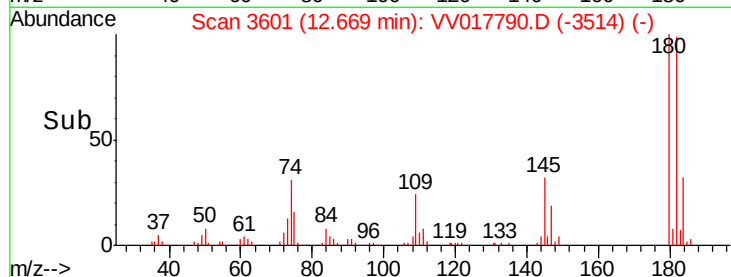
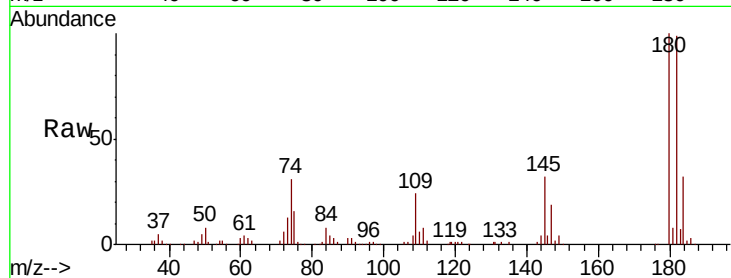




#69
 1,3,5-Trichlorobenzene
 Concen: 4.740 ug/L
 RT: 12.67 min Scan# 3601
 Delta R.T. -0.02 min
 Lab File: VV017790.D
 Acq: 03 Aug 2020 12:00

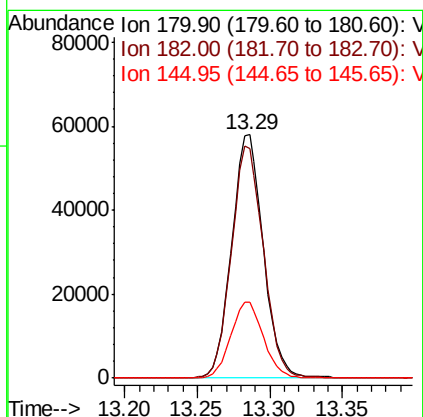
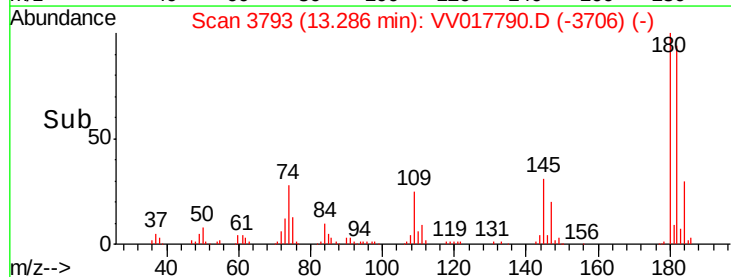
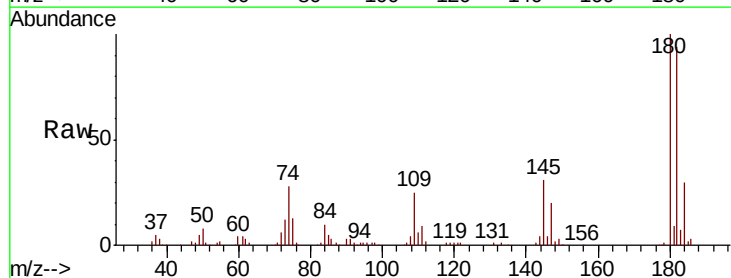
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD005002

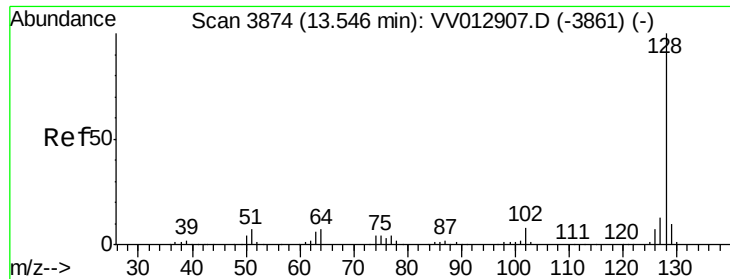
Tot Ion	Ratio	Lower	Upper
180	100		
182	97.4	77.1	115.7
184	31.0	24.6	36.8
145	30.9	22.8	34.2



#70
 1,2,4-trichlorobenzene
 Concen: 4.753 ug/L
 RT: 13.29 min Scan# 3793
 Delta R.T. -0.02 min
 Lab File: VV017790.D
 Acq: 03 Aug 2020 12:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	76.1	114.1
145	32.1	24.3	36.5

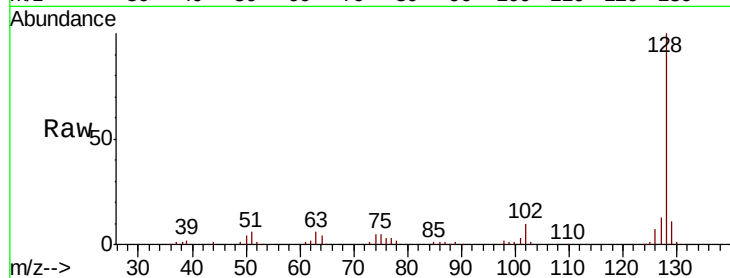




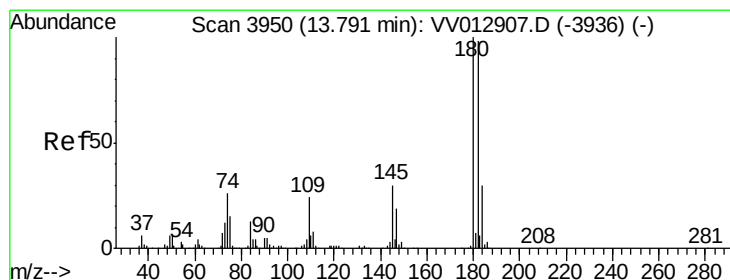
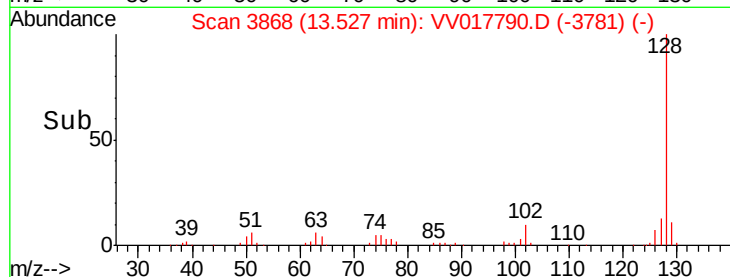
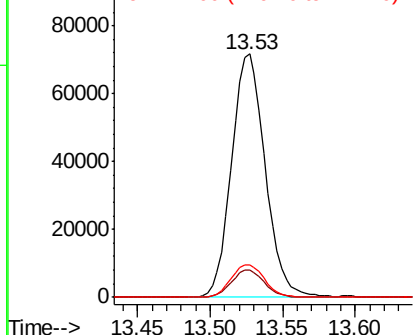
#71
Naphthalene
Concen: 4.517 ug/L
RT: 13.53 min Scan# 3868
Delta R.T. -0.02 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

Instrument :
MSVOA_V
ClientSampleId :
VSTD005002

Tot Ion:128 Resp: 115729
Ion Ratio Lower Upper
128 100
129 10.9 9.1 13.7
127 13.4 10.4 15.6

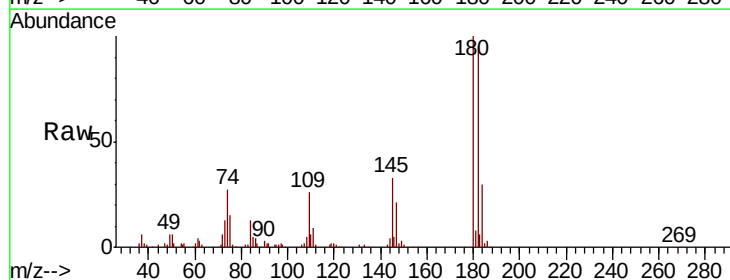


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#72
1,2,3-Trichlorobenzene
Concen: 4.777 ug/L
RT: 13.77 min Scan# 3943
Delta R.T. -0.02 min
Lab File: VV017790.D
Acq: 03 Aug 2020 12:00

Tgt Ion:180 Resp: 78173
Ion Ratio Lower Upper
180 100
182 94.3 78.5 117.7
145 32.8 25.8 38.8



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

