

Data File : VV014480.D
Acq On : 03 Feb 2020 10:06
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05088

Quant Time: Feb 04 04:42:11 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM020120WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Feb 03 16:14:16 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	448571	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	411323	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	207168	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	113081	45.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.78%
7) Chloroethane-d5	1.59	69	79388	51.25	ug/L	0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	102.50%
11) 1,1-Dichloroethene-d2	2.14	63	178390	53.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	107.28%
21) 2-Butanone-d5	3.92	46	177754	106.04	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.04%
24) Chloroform-d	4.40	84	263029	49.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.78%
26) 1,2-Dichloroethane-d4	5.08	65	159026	50.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.14%
32) Benzene-d6	5.09	84	534638	49.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.72%
36) 1,2-Dichloropropane-d6	6.11	67	166023	48.45	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.90%
41) Toluene-d8	7.35	98	502263	50.24	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.48%
43) trans-1,3-Dichloropropene-	7.66	79	90771	52.12	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	104.24%
47) 2-Hexanone-d5	8.12	63	139675	104.19	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.19%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	216074	48.94	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	97.88%
64) 1,2-Dichlorobenzene-d4	11.67	152	187206	49.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.12%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	199967	53.321	ug/L 99
3) Chloromethane	1.26	50	213957	54.643	ug/L 99
5) Vinyl chloride	1.33	62	160502	51.012	ug/L 99
6) Bromomethane	1.54	94	58736	56.028	ug/L 99
8) Chloroethane	1.60	64	77036	55.759	ug/L 99
9) Trichlorofluoromethane	1.77	101	204361	56.411	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	102251	60.204	ug/L 98
12) 1,1-Dichloroethene	2.14	96	96982	56.835	ug/L 98
13) Acetone	2.18	43	177666	124.217	ug/L 98
14) Carbon disulfide	2.32	76	442784	52.833	ug/L 99
15) Methyl Acetate	2.45	43	153867	55.825	ug/L 99
16) Methylene chloride	2.54	84	166863	50.786	ug/L 99
17) trans-1,2-Dichloroethene	2.79	96	157918	53.355	ug/L 99
18) Methyl tert-butyl Ether	2.80	73	500680	54.996	ug/L 98
19) 1,1-Dichloroethane	3.23	63	285339	52.833	ug/L 99
20) cis-1,2-Dichloroethene	3.96	96	174579	52.887	ug/L 96
22) 2-Butanone	4.00	43	250056	121.331	ug/L 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	82151	53.086	ug/L	96
25) Chloroform	4.42	83	284215	52.245	ug/L	99
27) 1,2-Dichloroethane	5.17	62	215019	55.594	ug/L	100
29) Cyclohexane	4.72	56	277542	55.231	ug/L	100
30) 1,1,1-Trichloroethane	4.66	97	252701	57.331	ug/L	100
31) Carbon tetrachloride	4.87	117	222126	57.757	ug/L	99
33) Benzene	5.14	78	644307	53.088	ug/L	100
34) Trichloroethene	5.96	95	168974	55.124	ug/L	98
35) Methylcyclohexane	6.17	83	284835	55.922	ug/L	99
37) 1,2-Dichloropropane	6.22	63	165060	54.422	ug/L	100
38) Bromodichloromethane	6.55	83	222967	54.906	ug/L	99
39) cis-1,3-Dichloropropene	7.06	75	272659	54.671	ug/L	98
40) 4-Methyl-2-pentanone	7.26	43	415169	113.225	ug/L	98
42) Toluene	7.43	91	690783	54.372	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	248907	56.199	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	152414	53.187	ug/L	99
46) Tetrachloroethene	8.01	164	130281	58.114	ug/L	97
48) 2-Hexanone	8.17	43	332355	115.874	ug/L	97
49) Dibromochloromethane	8.28	129	176734	56.055	ug/L	98
50) 1,2-Dibromoethane	8.39	107	165479	54.236	ug/L	98
51) Chlorobenzene	8.92	112	439286	54.049	ug/L	99
52) Ethylbenzene	9.05	91	777111	54.498	ug/L	100
53) m,p-Xylene	9.18	106	294387	55.288	ug/L	99
54) o-xylene	9.58	106	283639	53.761	ug/L	98
55) Styrene	9.60	104	491159	55.470	ug/L	100
56) Isopropylbenzene	9.97	105	752200	55.759	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	242777	53.032	ug/L	100
59) 1,2,3-Trichloropropane	10.31	75	185349	51.712	ug/L	100
61) Bromoform	9.77	173	120963	55.883	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	345987	54.301	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	352016	53.666	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	332308	52.764	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	53756	53.693	ug/L	99
67) 1,3,5-Trichlorobenzene	12.68	180	245509	57.194	ug/L	99
68) 1,2,4-trichlorobenzene	13.30	180	225235	57.762	ug/L	100
69) Naphthalene	13.54	128	717096	58.070	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	215760	57.422	ug/L	98

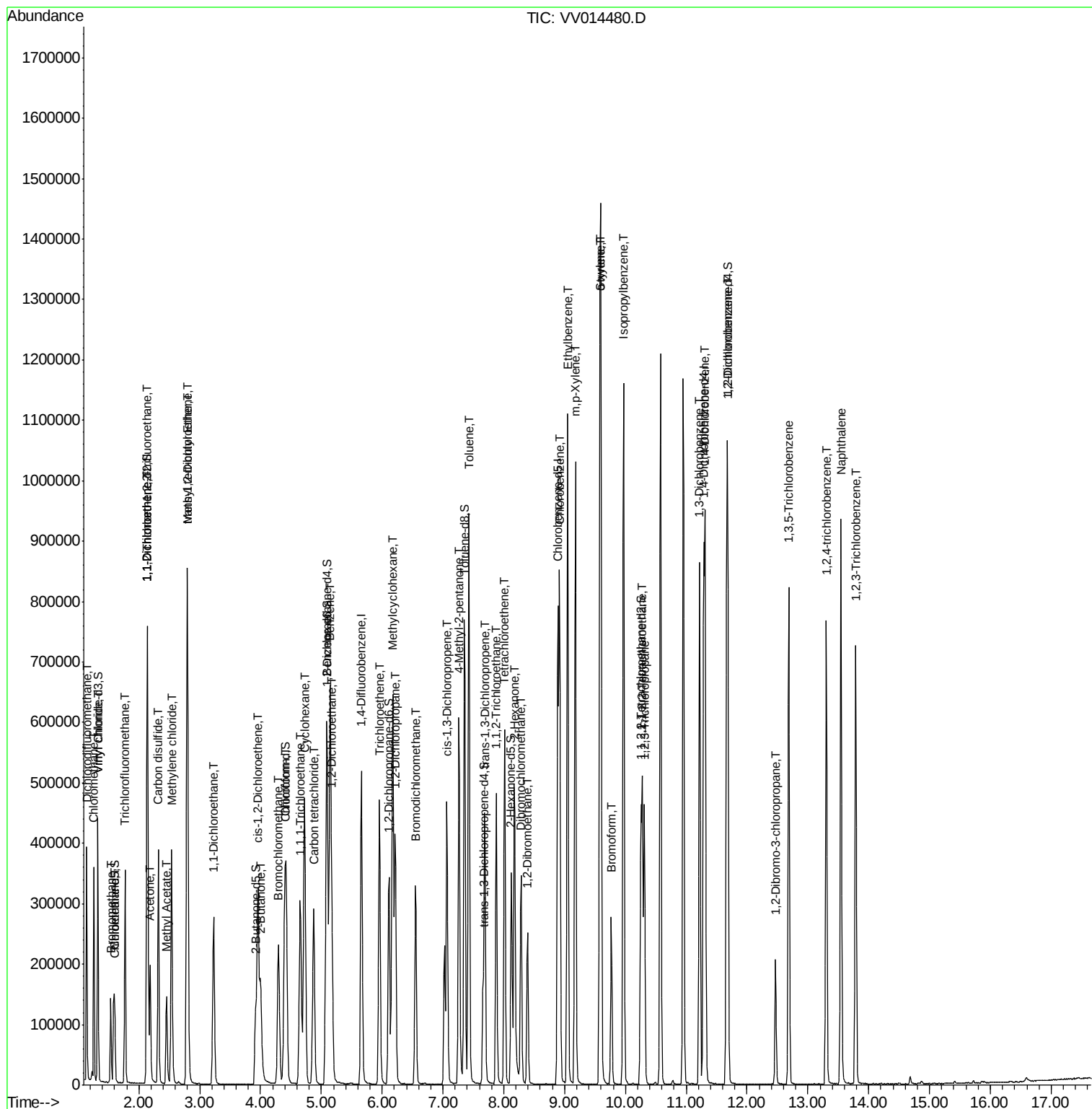
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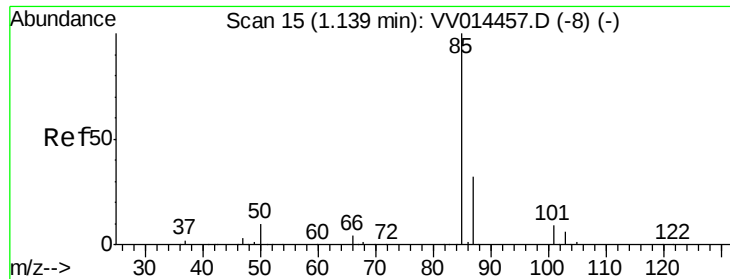
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#2

Dichlorodifluoromethane

Concen: 53.321 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

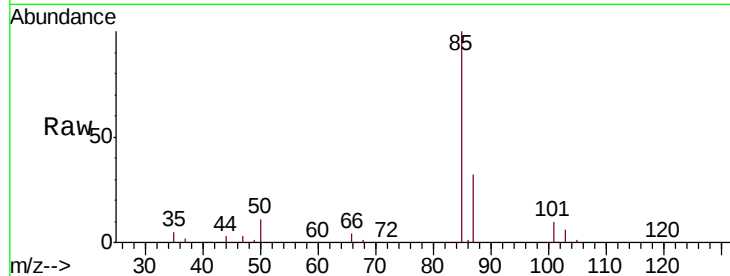
VSTD05088

Tgt Ion: 85 Resp: 199967

Ion Ratio Lower Upper

85 100

87 32.4 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VV014457.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014457.D (-8) (-)

1.14

200000

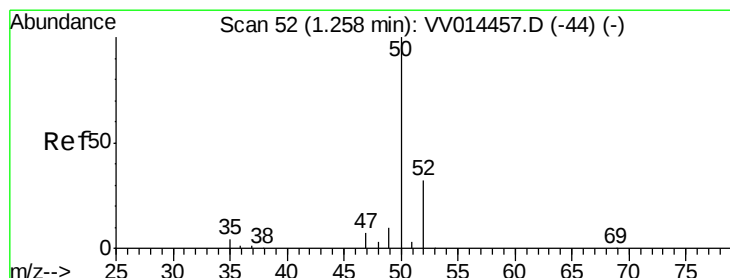
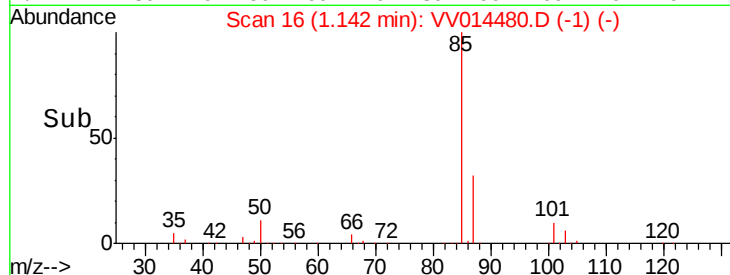
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 54.643 ug/L

RT: 1.26 min Scan# 52

Delta R.T. -0.00 min

Lab File: VV014480.D

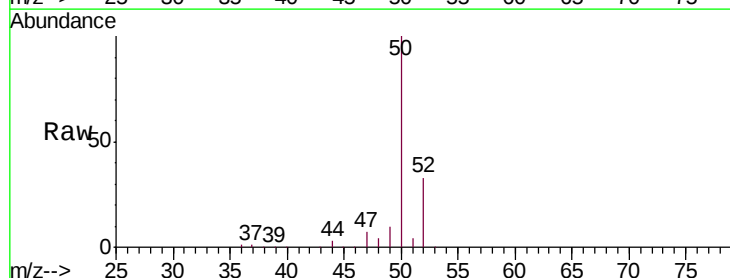
Acq: 03 Feb 2020 10:06

Tgt Ion: 50 Resp: 213957

Ion Ratio Lower Upper

50 100

52 32.9 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VV014457.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV014457.D (-44) (-)

1.26

200000

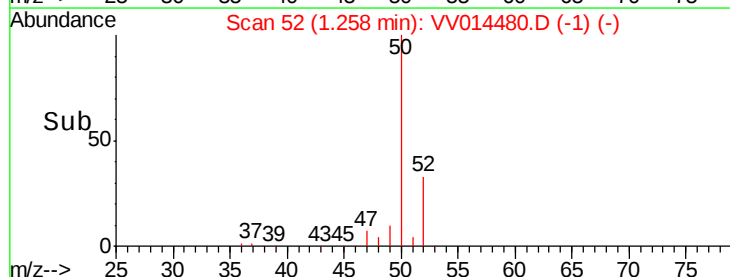
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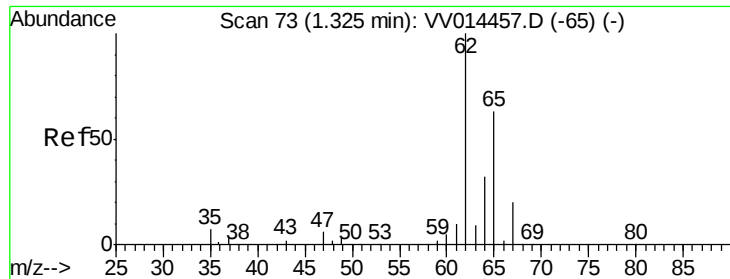
100000

50000

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Time-->





#5

Vinyl chloride

Concen: 51.012 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

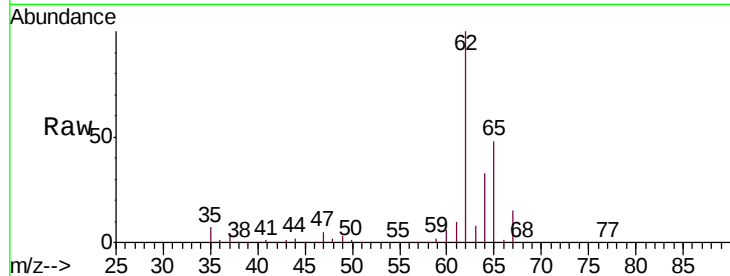
VSTD05088

Tgt Ion: 62 Resp: 160502

Ion Ratio Lower Upper

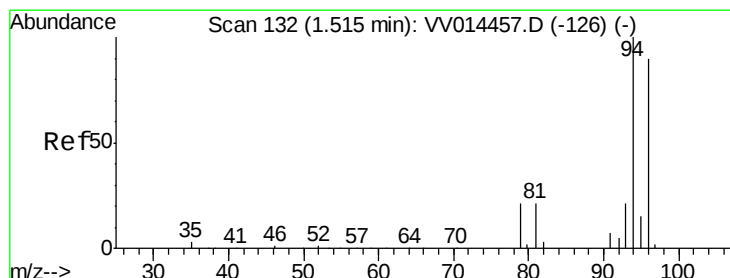
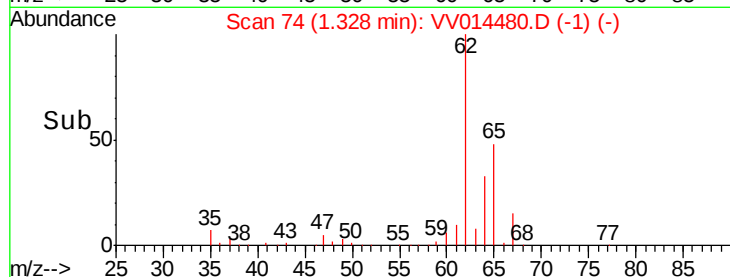
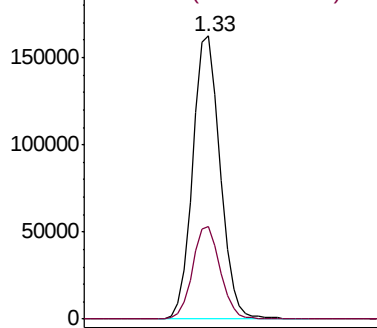
62 100

64 32.8 22.7 42.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 56.028 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.02 min

Lab File: VV014480.D

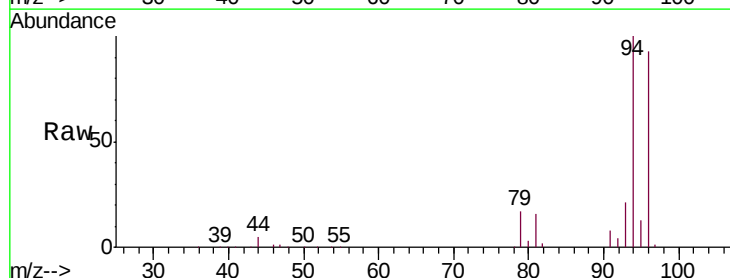
Acq: 03 Feb 2020 10:06

Tgt Ion: 94 Resp: 58736

Ion Ratio Lower Upper

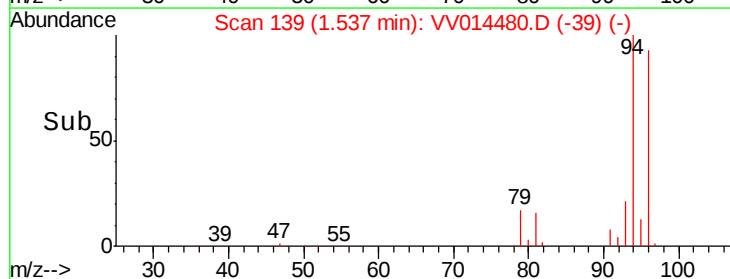
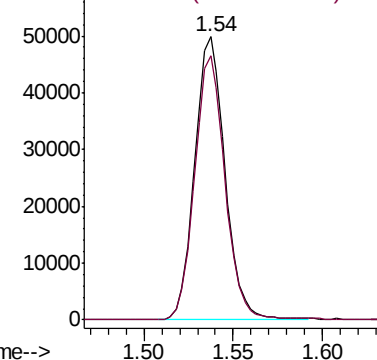
94 100

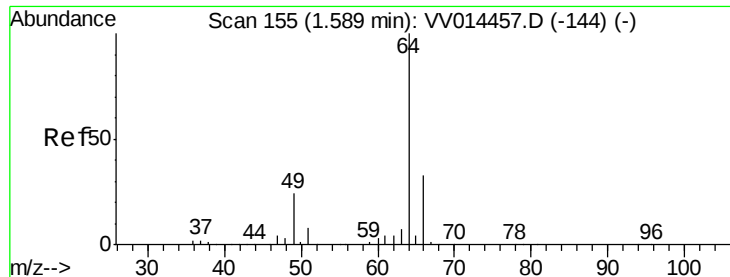
96 93.4 65.0 120.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

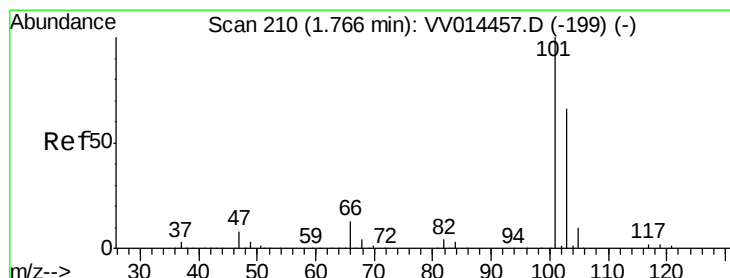
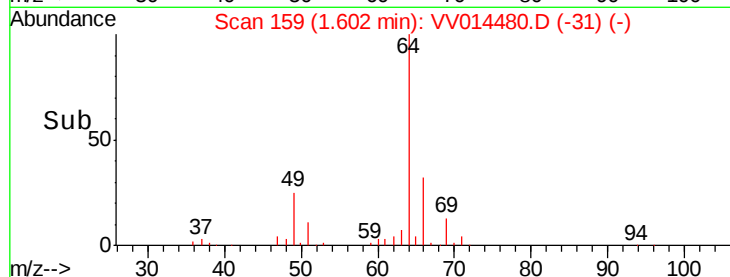
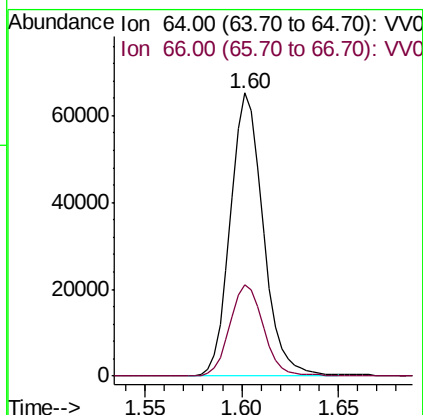
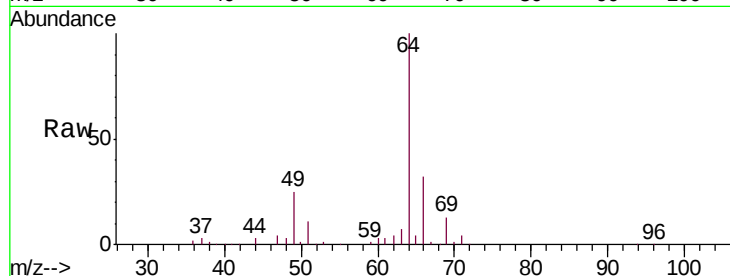




#8
Chloroethane
Concen: 55.759 ug/L
RT: 1.60 min Scan# 159
Delta R.T. 0.01 min
Lab File: VV014480.D
Acq: 03 Feb 2020 10:06

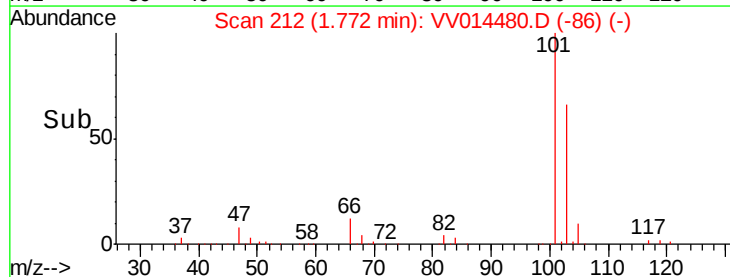
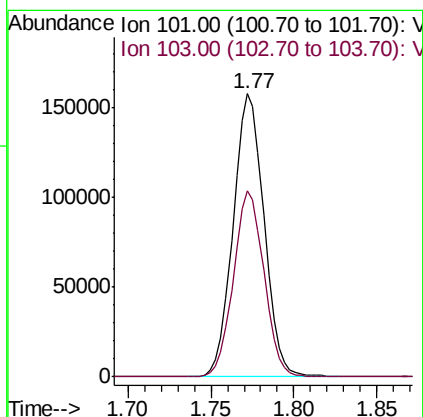
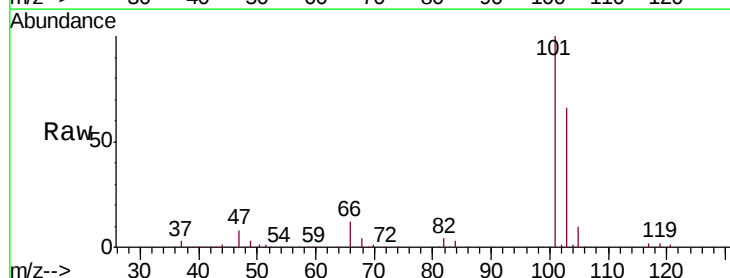
Instrument :
MSVOA_V
ClientSampleId :
VSTD05088

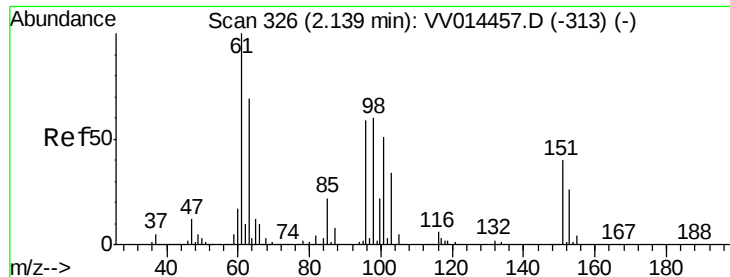
Tgt Ion: 64 Resp: 77036
Ion Ratio Lower Upper
64 100
66 32.2 23.0 42.8



#9
Trichlorofluoromethane
Concen: 56.411 ug/L
RT: 1.77 min Scan# 212
Delta R.T. 0.01 min
Lab File: VV014480.D
Acq: 03 Feb 2020 10:06

Tgt Ion: 101 Resp: 204361
Ion Ratio Lower Upper
101 100
103 65.2 50.6 75.8





#10

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

Concen: 60.204 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD05088

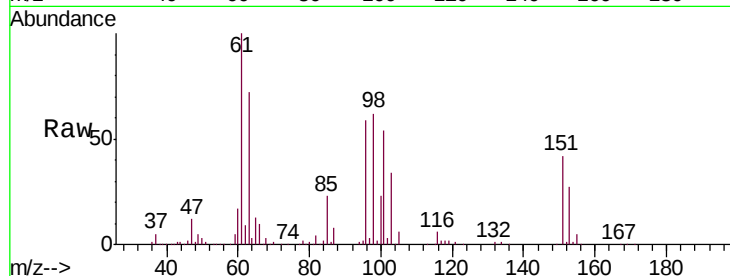
Tgt Ion:101 Resp: 102251

Ion Ratio Lower Upper

101 100

85 42.5 34.6 51.8

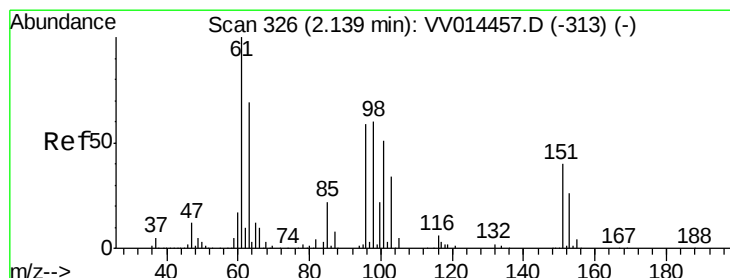
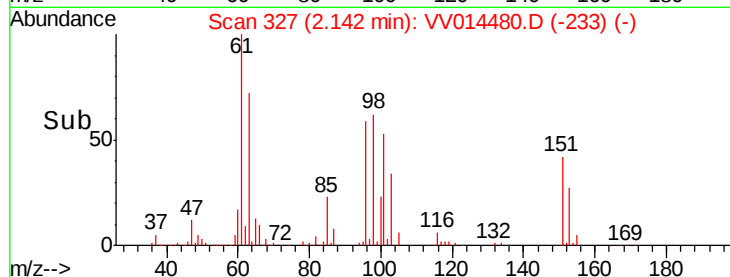
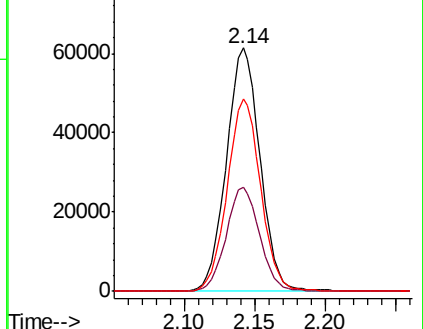
151 78.6 61.2 91.8



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: 56.835 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

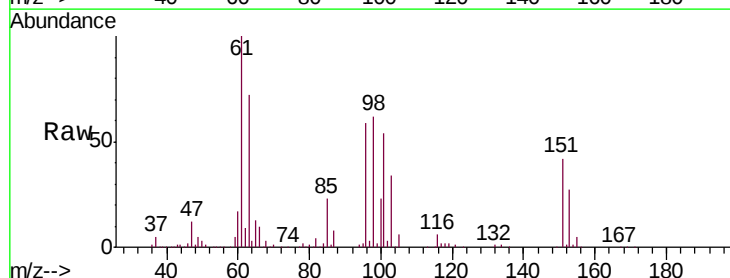
Tgt Ion: 96 Resp: 96982

Ion Ratio Lower Upper

96 100

61 169.8 120.5 223.7

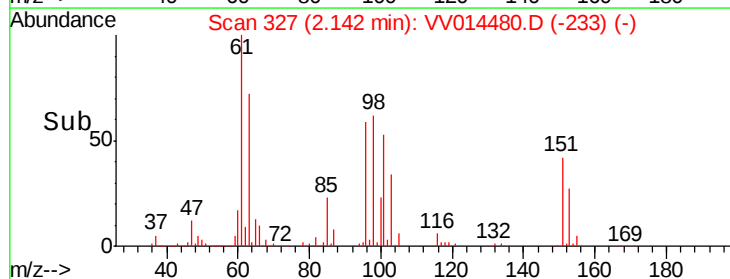
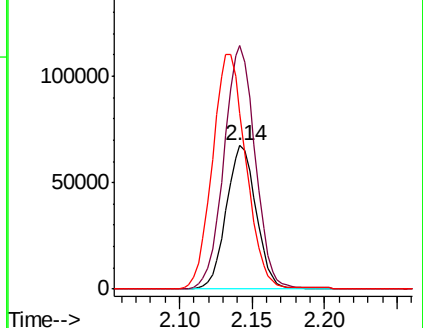
63 122.6 87.1 161.7

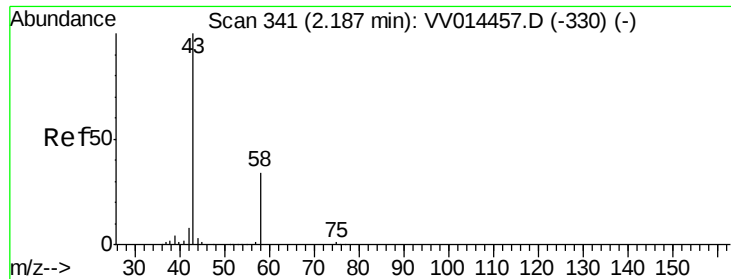


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 124.217 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampled :

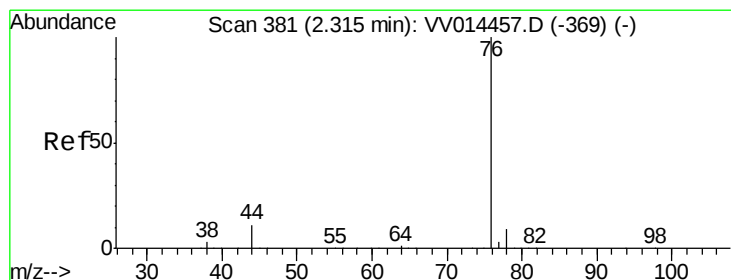
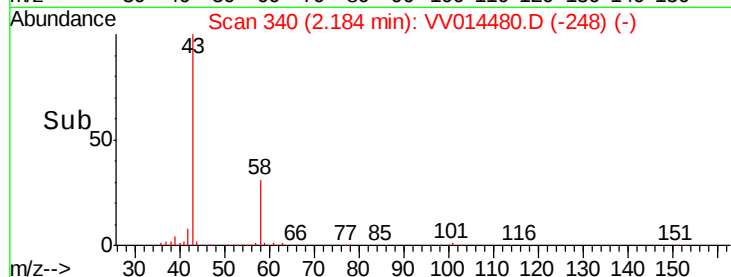
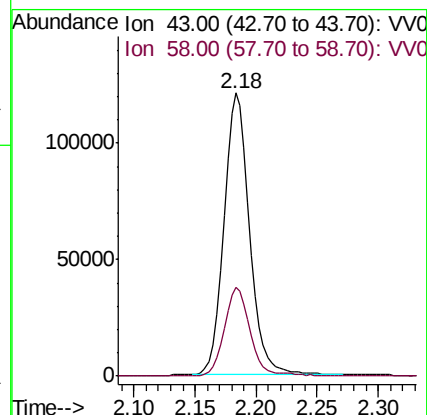
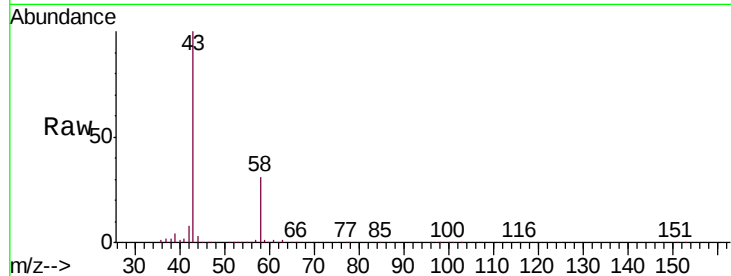
VSTD05088

Tgt Ion: 43 Resp: 177666

Ion Ratio Lower Upper

43 100

58 31.5 0.0 61.2



#14

Carbon disulfide

Concen: 52.833 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV014480.D

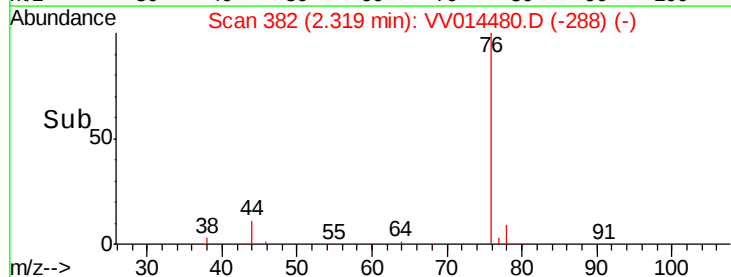
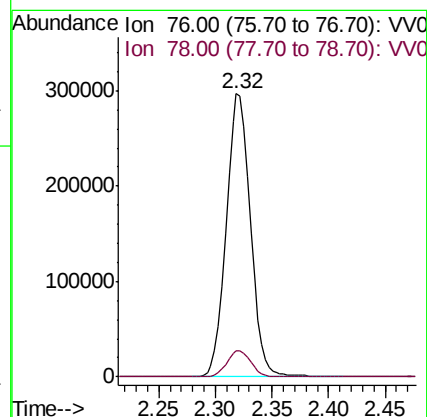
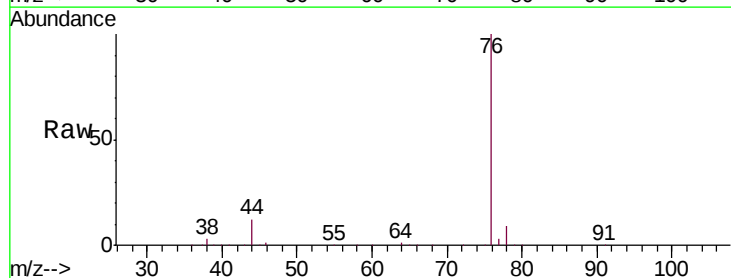
Acq: 03 Feb 2020 10:06

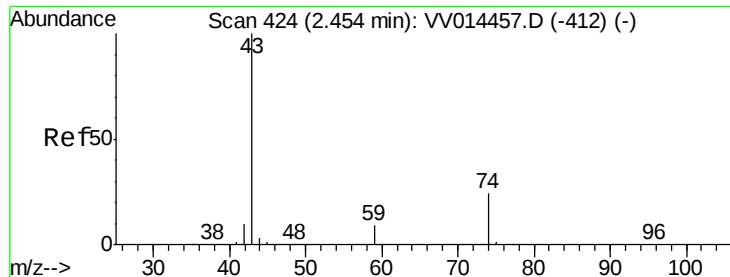
Tgt Ion: 76 Resp: 442784

Ion Ratio Lower Upper

76 100

78 9.4 7.2 10.8





#15

Methyl Acetate

Concen: 55.825 ug/L

RT: 2.45 min Scan# 424

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampled :

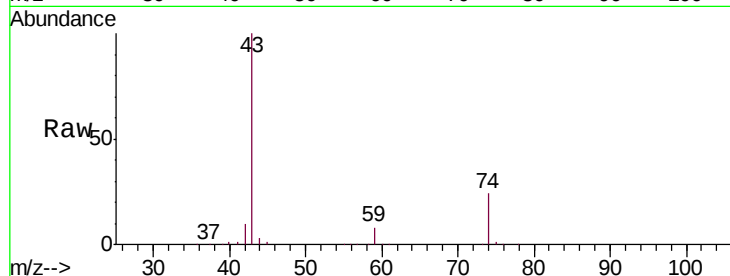
VSTD05088

Tgt Ion: 43 Resp: 153867

Ion Ratio Lower Upper

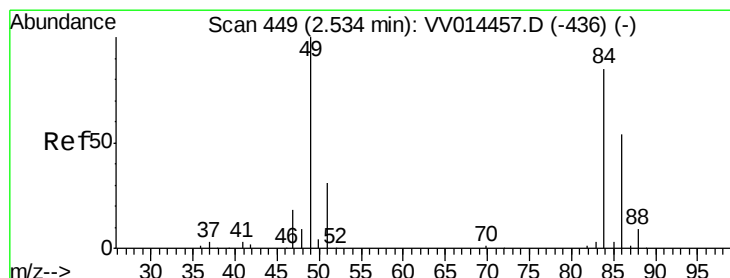
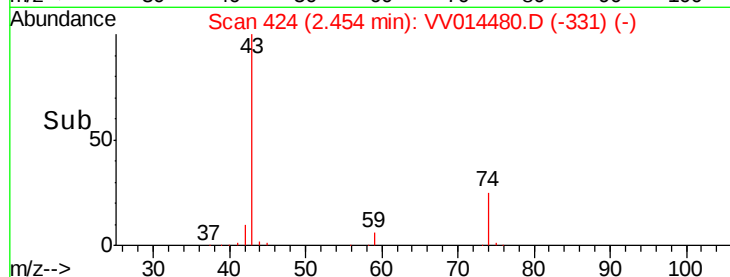
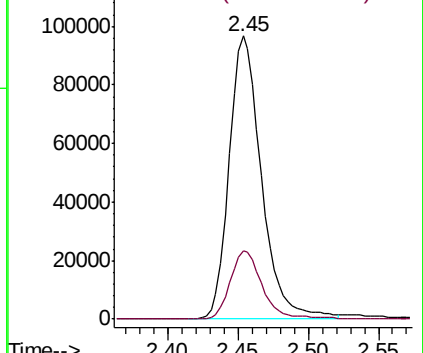
43 100

74 23.8 19.6 29.4



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 50.786 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

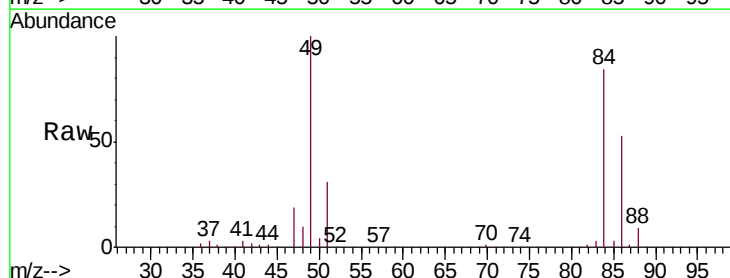
Tgt Ion: 84 Resp: 166863

Ion Ratio Lower Upper

84 100

86 64.0 45.6 84.8

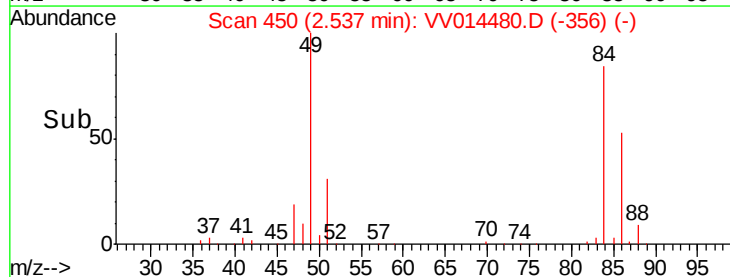
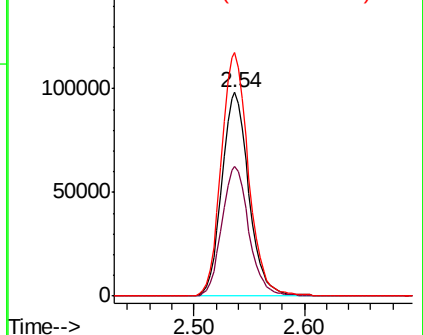
49 119.7 82.7 153.7

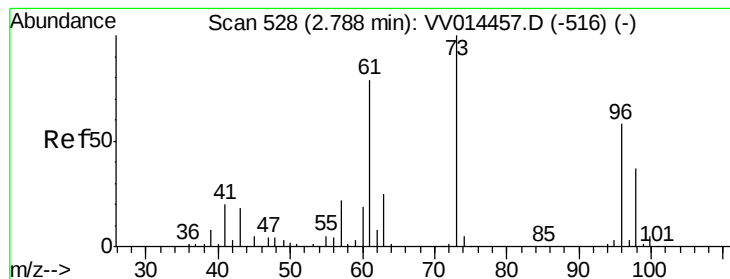


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 53.355 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD05088

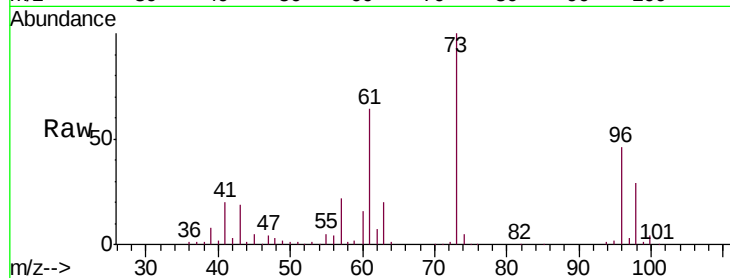
Tgt Ion: 96 Resp: 157918

Ion Ratio Lower Upper

96 100

61 139.0 96.7 179.7

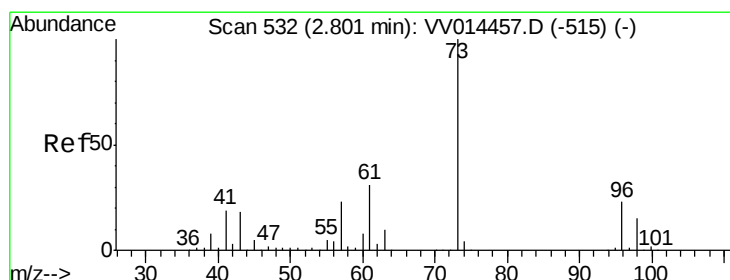
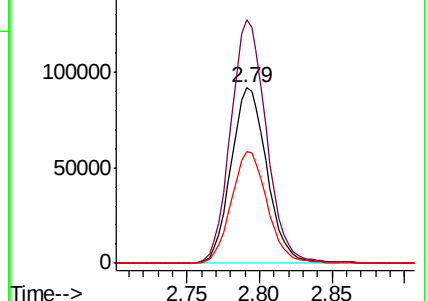
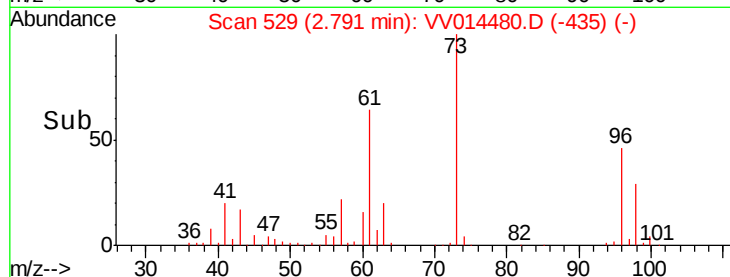
98 63.7 44.1 81.9



Abundance Ion 96.00 (95.70 to 96.70): VV014480.D (-435) (-)

Ion 61.00 (60.70 to 61.70): VV014480.D (-435) (-)

Ion 98.00 (97.70 to 98.70): VV014480.D (-435) (-)



#18

Methyl tert-butyl Ether

Concen: 54.996 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

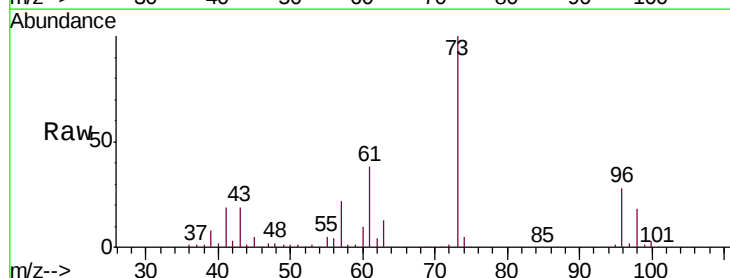
Tgt Ion: 73 Resp: 500680

Ion Ratio Lower Upper

73 100

43 18.8 14.1 21.1

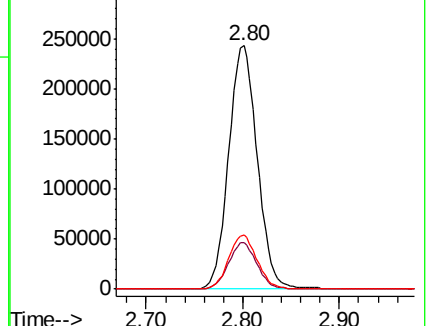
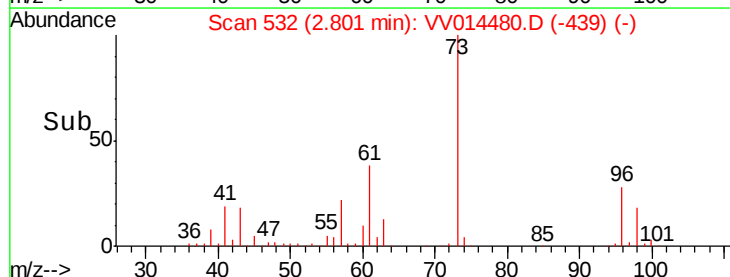
57 21.9 17.9 26.9

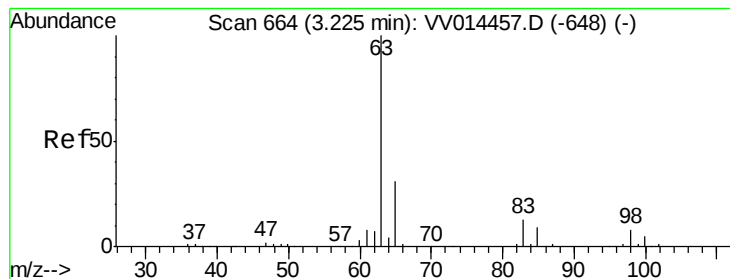


Abundance Ion 73.00 (72.70 to 73.70): VV014480.D (-439) (-)

Ion 43.00 (42.70 to 43.70): VV014480.D (-439) (-)

Ion 57.00 (56.70 to 57.70): VV014480.D (-439) (-)





#19

1,1-Dichloroethane

Concen: 52.833 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD05088

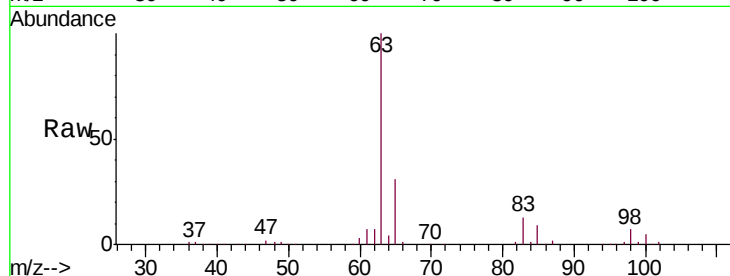
Tgt Ion: 63 Resp: 285339

Ion Ratio Lower Upper

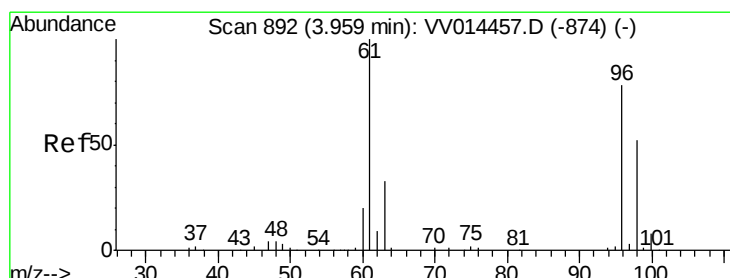
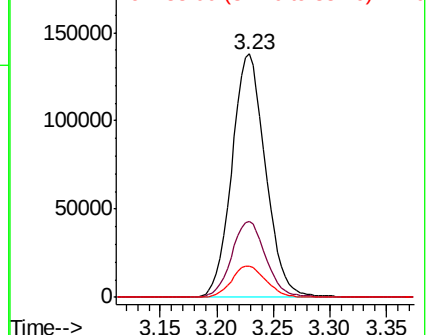
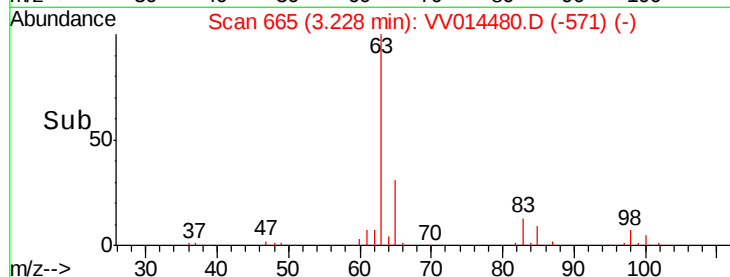
63 100

65 31.1 22.1 41.1

83 13.0 9.4 17.6



Abundance Ion 63.00 (62.70 to 63.70): VV014480.D (-571) (-)



#20

cis-1,2-Dichloroethene

Concen: 52.887 ug/L

RT: 3.96 min Scan# 892

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

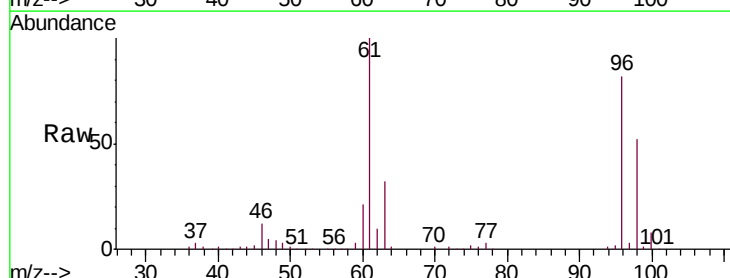
Tgt Ion: 96 Resp: 174579

Ion Ratio Lower Upper

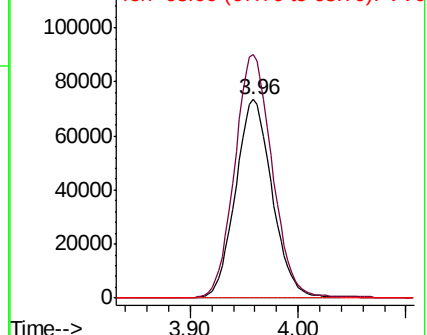
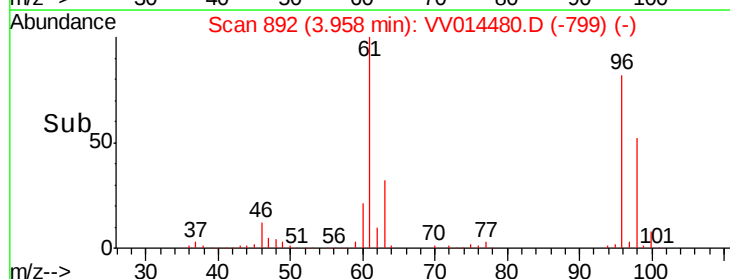
96 100

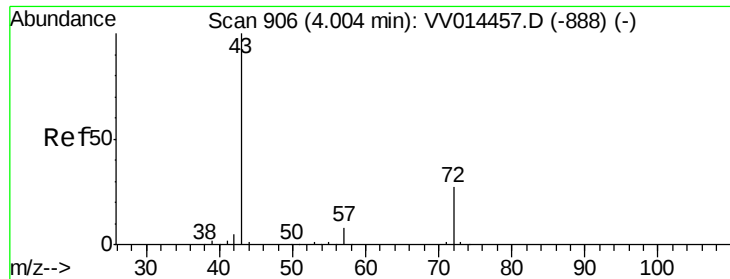
61 122.7 88.9 165.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV014480.D (-799) (-)





#22

2-Butanone

Concen: 121.331 ug/L

RT: 4.00 min Scan# 905

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampled :

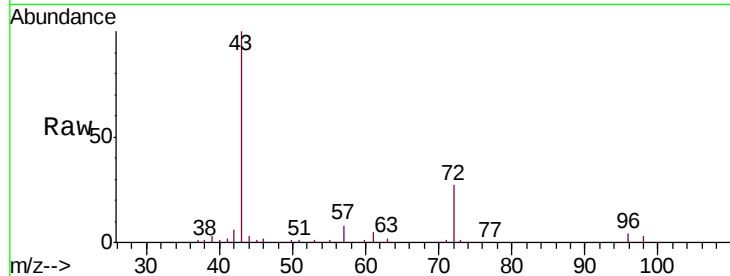
VSTD05088

Tgt Ion: 43 Resp: 250056

Ion Ratio Lower Upper

43 100

72 25.4 13.8 41.3



Abundance Ion 43.00 (42.70 to 43.70): VV014457.D (-888) (-)

Ion 72.00 (71.70 to 72.70): VV014457.D (-888) (-)

4.00

100000

80000

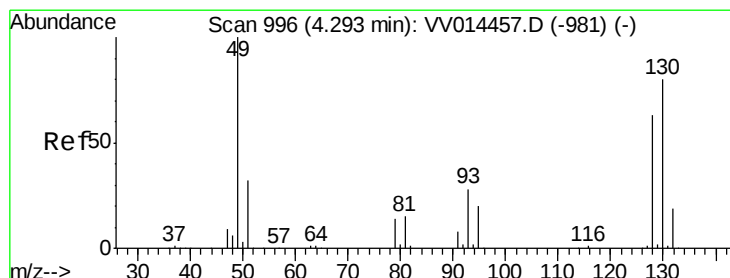
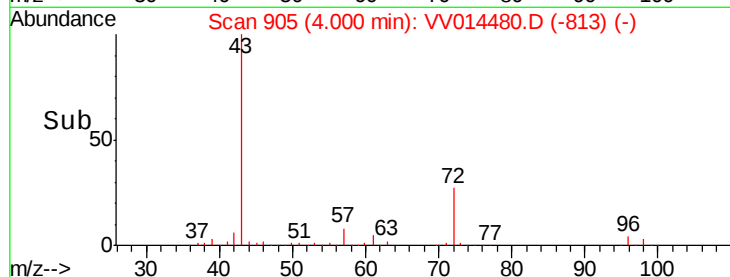
60000

40000

20000

0

Time-->



#23

Bromochloromethane

Concen: 53.086 ug/L

RT: 4.29 min Scan# 996

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Tgt Ion: 128 Resp: 82151

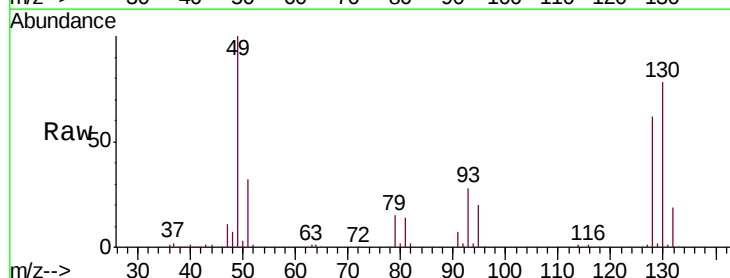
Ion Ratio Lower Upper

128 100

49 162.5 118.8 220.6

130 126.1 90.7 168.5

51 52.5 42.8 64.2



Abundance Ion 128.00 (127.70 to 128.70): VV014480.D (-903) (-)

Ion 49.00 (48.70 to 49.70): VV014480.D (-903) (-)

Ion 130.00 (129.70 to 130.70): VV014480.D (-903) (-)

Ion 51.00 (50.70 to 51.70): VV014480.D (-903) (-)

4.29

80000

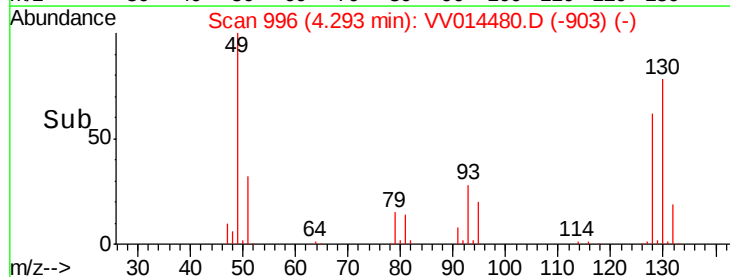
60000

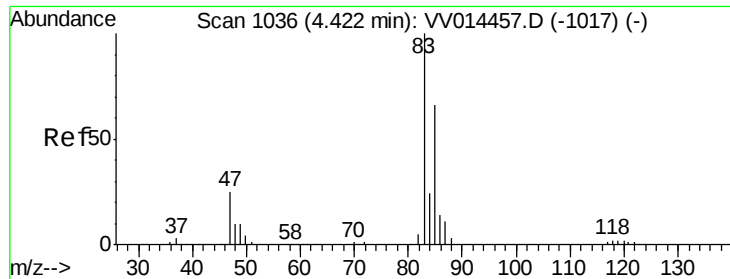
40000

20000

0

Time-->

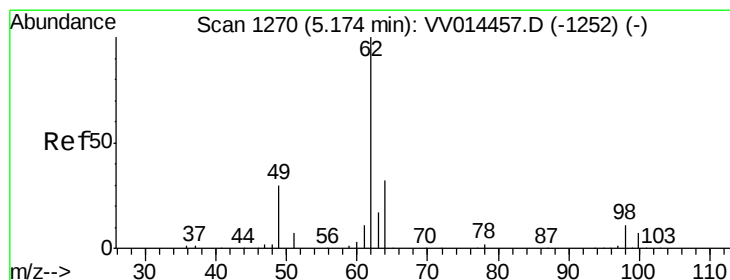
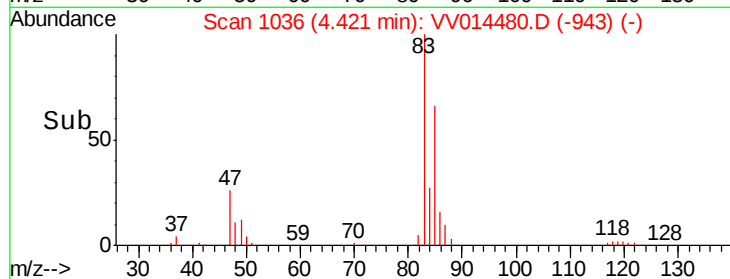
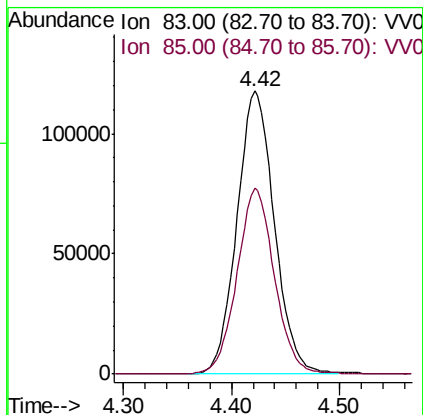
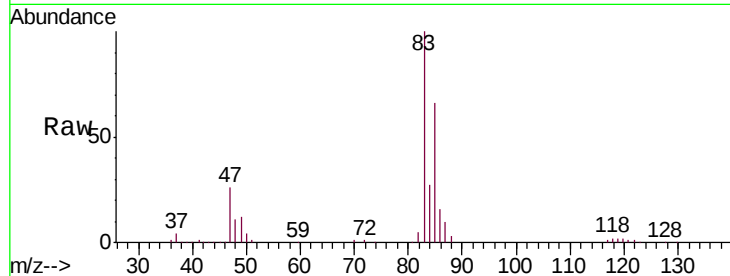




#25
Chloroform
Concen: 52.245 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV014480.D
Acq: 03 Feb 2020 10:06

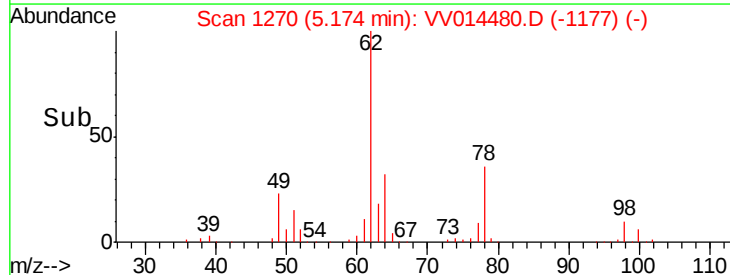
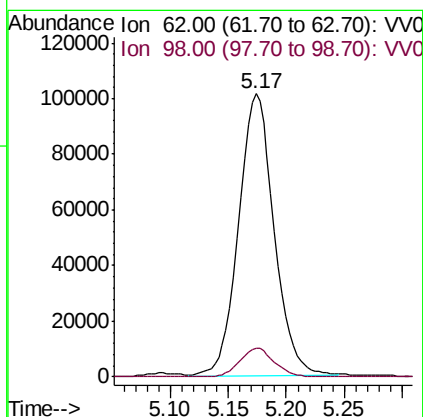
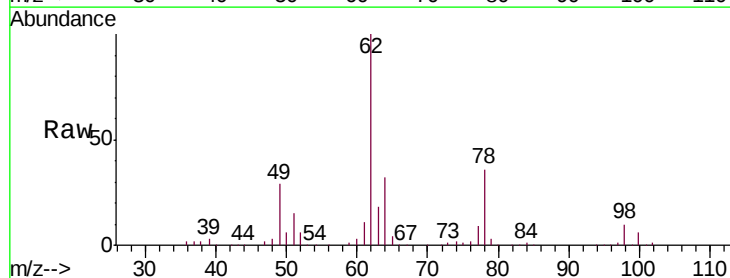
Instrument :
MSVOA_V
ClientSampleId :
VSTD05088

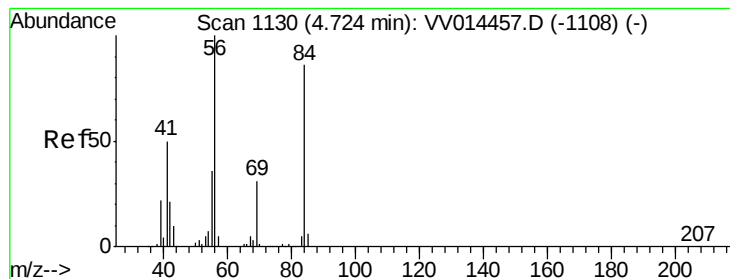
Tgt Ion: 83 Resp: 284215
Ion Ratio Lower Upper
83 100
85 65.5 45.1 83.7



#27
1,2-Dichloroethane
Concen: 55.594 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV014480.D
Acq: 03 Feb 2020 10:06

Tgt Ion: 62 Resp: 215019
Ion Ratio Lower Upper
62 100
98 10.1 8.0 12.0





#29

Cyclohexane

Concen: 55.231 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD05088

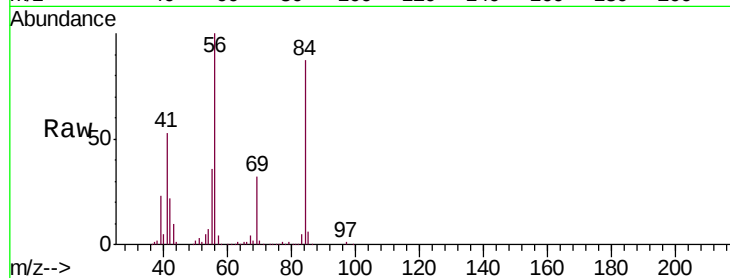
Tgt Ion: 56 Resp: 277542

Ion Ratio Lower Upper

56 100

69 31.1 24.9 37.3

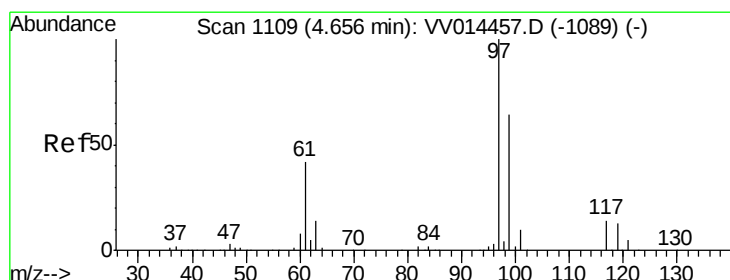
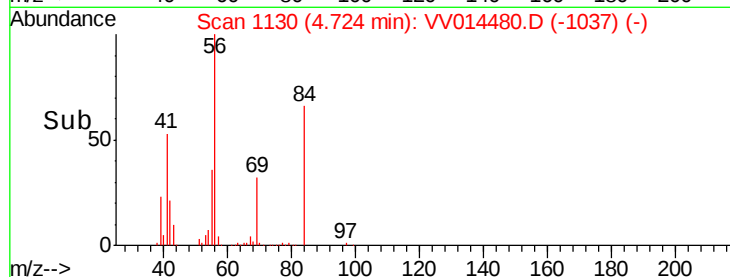
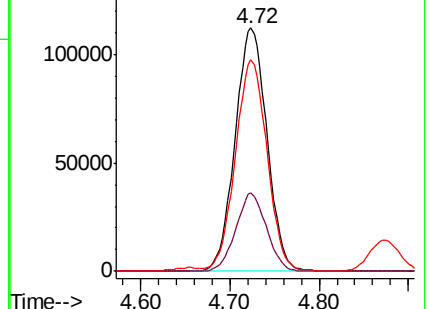
84 86.0 68.6 103.0



Abundance Ion 56.00 (55.70 to 56.70): VV014457.D (-1108) (-)

Ion 69.00 (68.70 to 69.70): VV014457.D (-1108) (-)

Ion 84.00 (83.70 to 84.70): VV014457.D (-1108) (-)



#30

1,1,1-Trichloroethane

Concen: 57.331 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

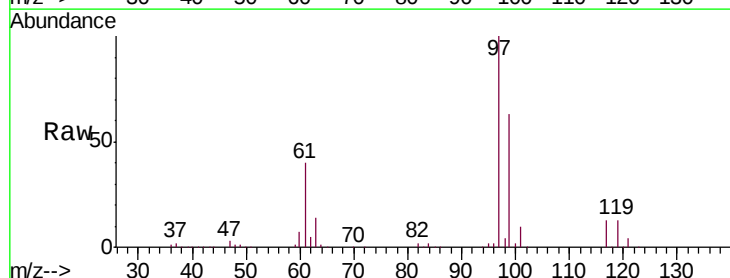
Tgt Ion: 97 Resp: 252701

Ion Ratio Lower Upper

97 100

99 63.3 50.6 76.0

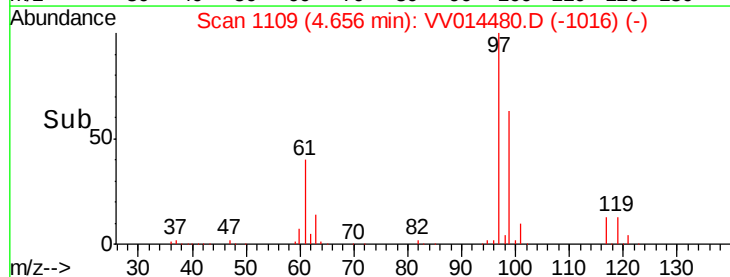
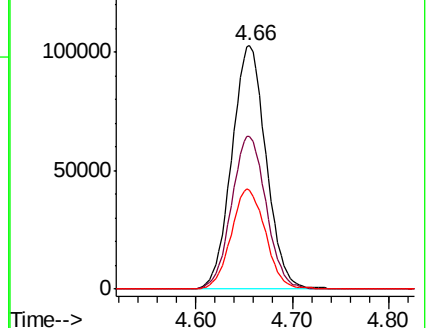
61 41.2 33.0 49.4

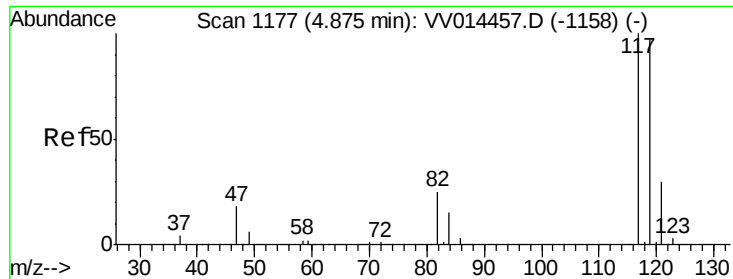


Abundance Ion 97.00 (96.70 to 97.70): VV014457.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VV014457.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VV014457.D (-1089) (-)





#31

Carbon tetrachloride

Concen: 57.757 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

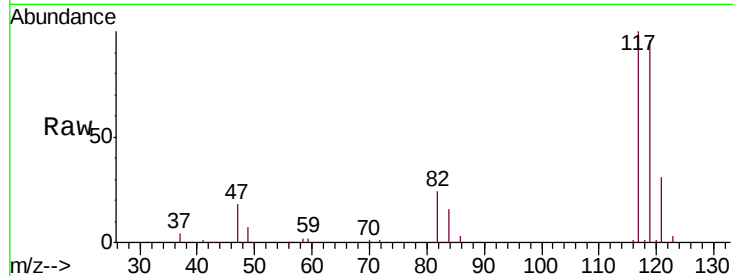
VSTD05088

Tgt Ion:117 Resp: 222126

Ion Ratio Lower Upper

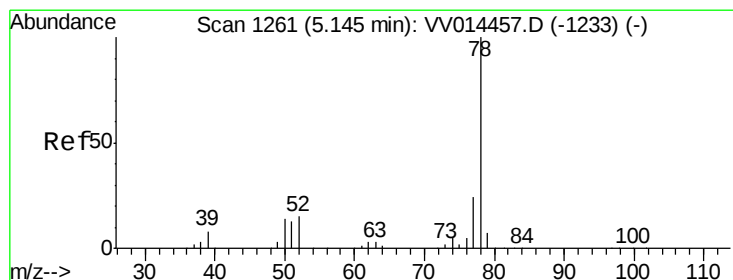
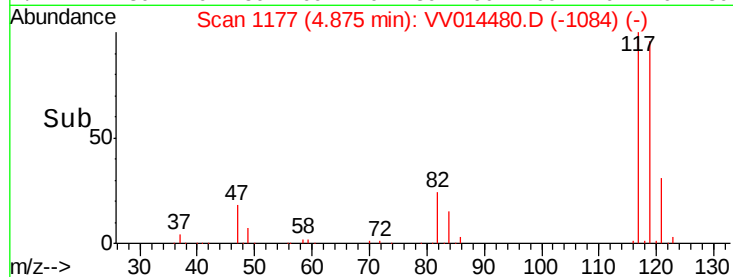
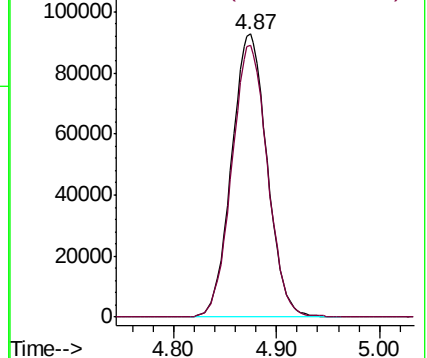
117 100

119 96.2 77.8 116.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 53.088 ug/L

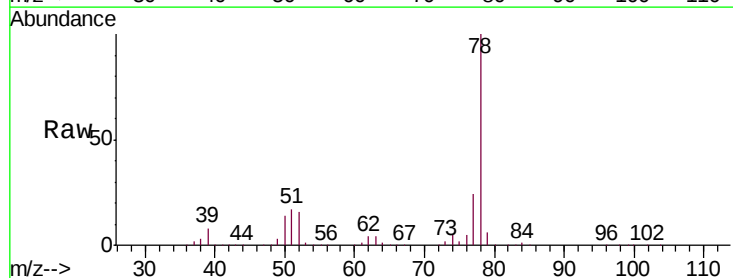
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

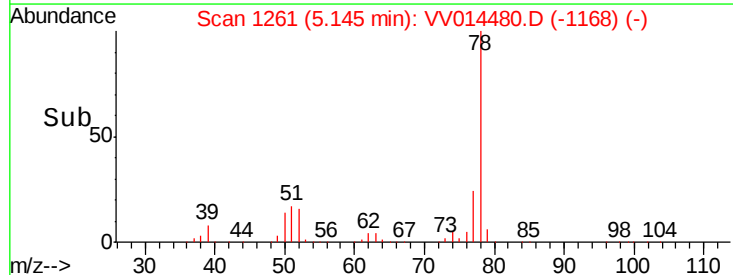
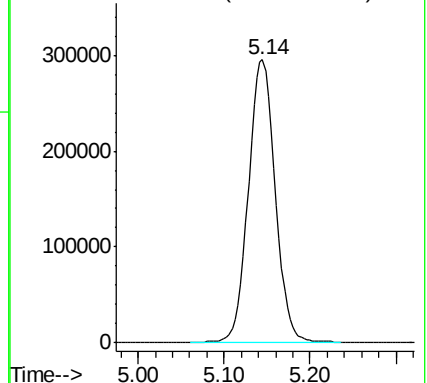
Lab File: VV014480.D

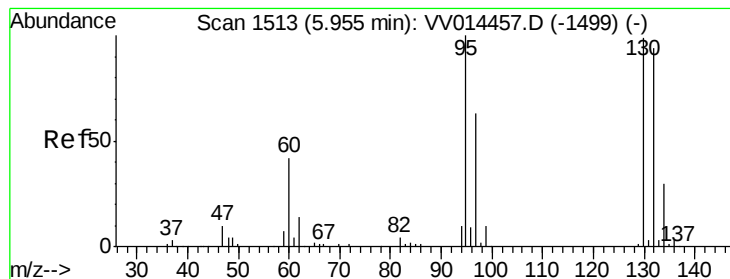
Acq: 03 Feb 2020 10:06

Tgt Ion: 78 Resp: 644307



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 55.124 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD05088

Tgt Ion: 95 Resp: 168974

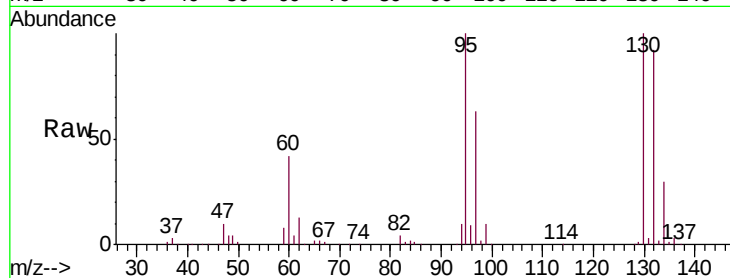
Ion Ratio Lower Upper

95 100

97 63.6 44.7 83.1

132 92.0 65.4 121.4

130 100.2 67.7 125.7

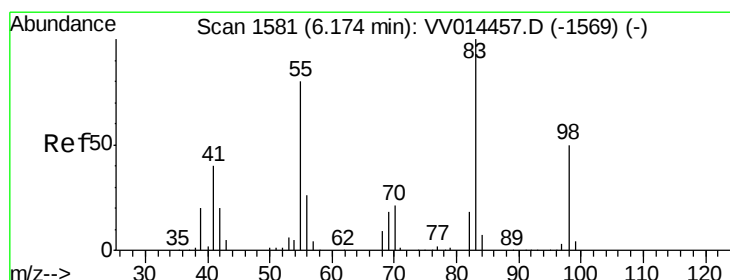
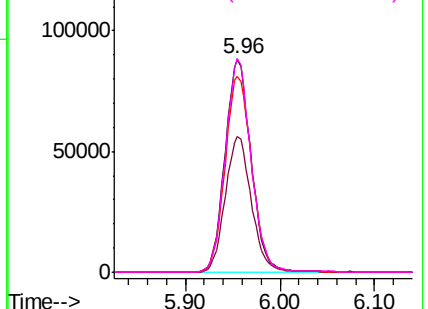
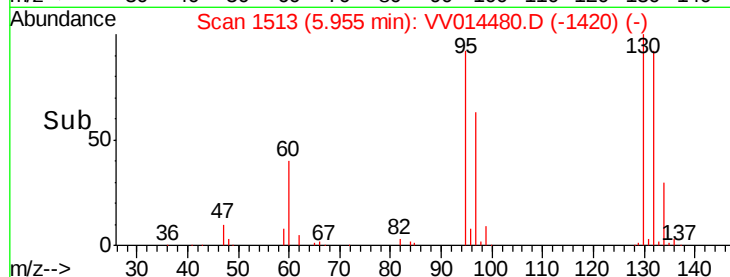


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 55.922 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

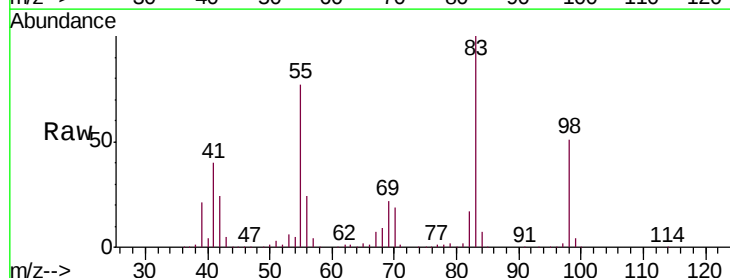
Tgt Ion: 83 Resp: 284835

Ion Ratio Lower Upper

83 100

55 77.0 60.4 90.6

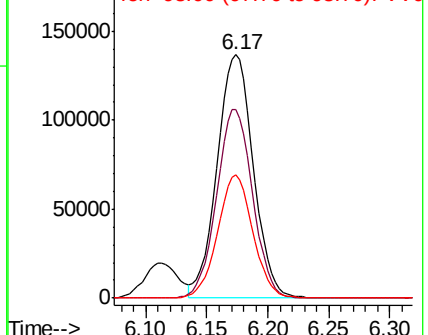
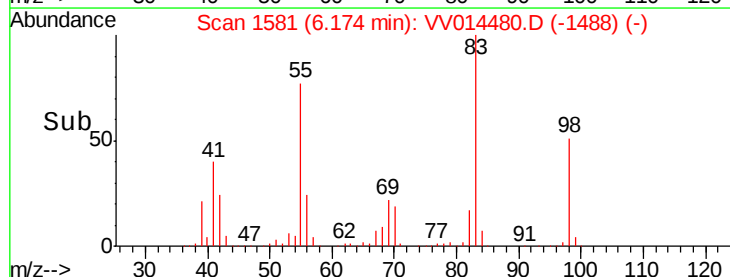
98 49.2 39.2 58.8

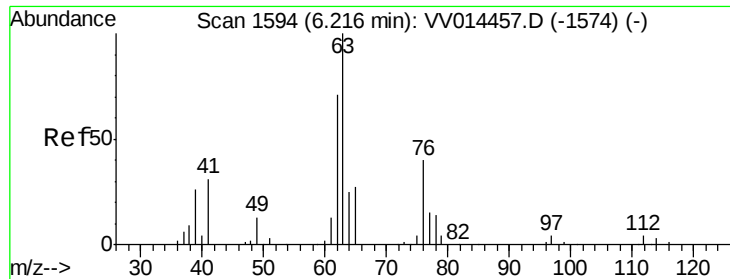


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

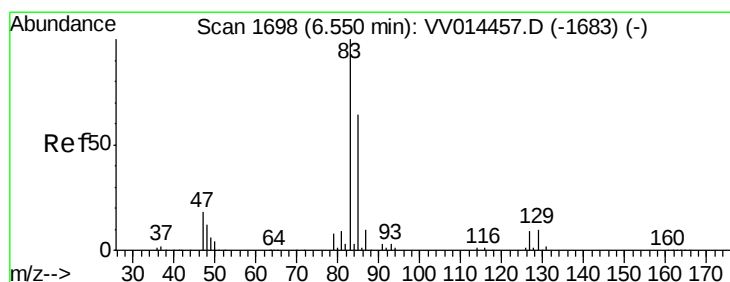
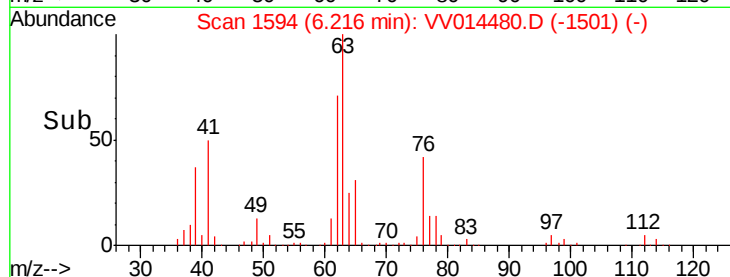
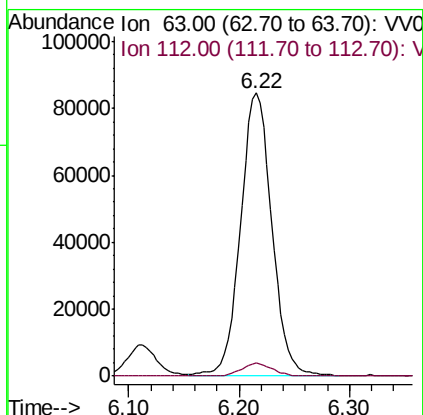
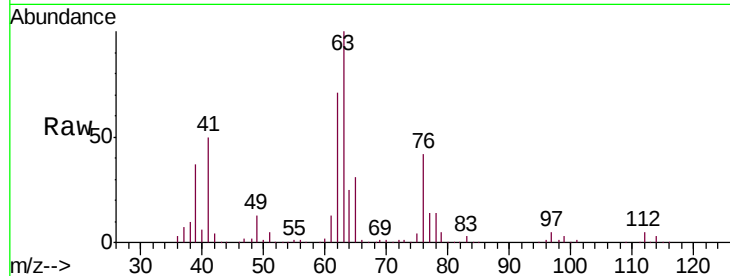




#37
 1,2-Dichloropropane
 Concen: 54.422 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV014480.D
 Acq: 03 Feb 2020 10:06

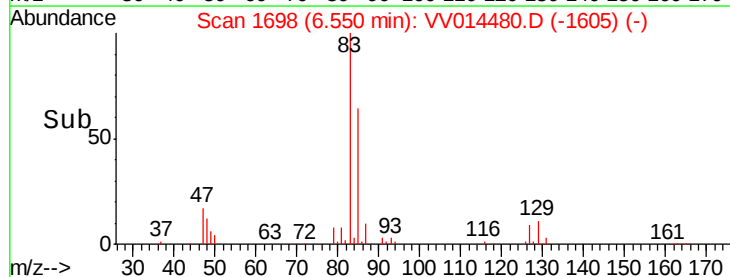
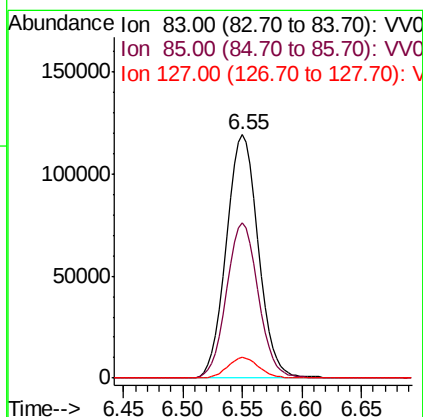
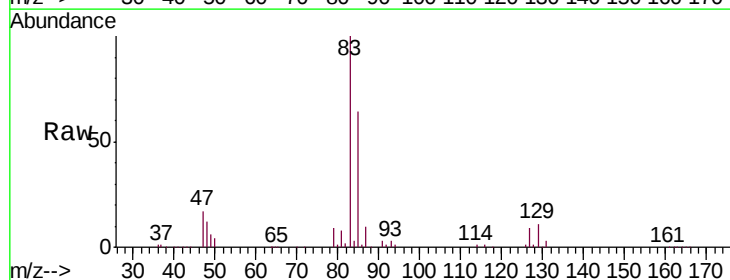
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05088

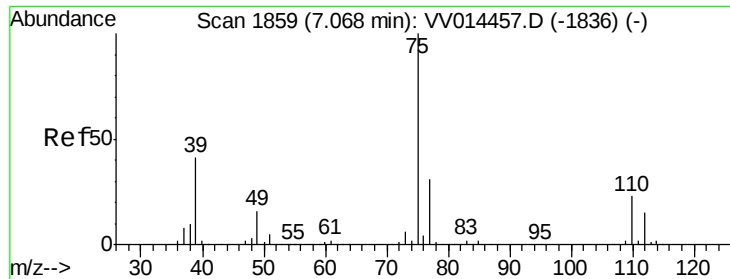
Tgt Ion: 63 Resp: 165060
 Ion Ratio Lower Upper
 63 100
 112 4.6 3.8 5.6



#38
 Bromodichloromethane
 Concen: 54.906 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VV014480.D
 Acq: 03 Feb 2020 10:06

Tgt Ion: 83 Resp: 222967
 Ion Ratio Lower Upper
 83 100
 85 63.7 44.9 83.3
 127 8.5 6.3 9.5

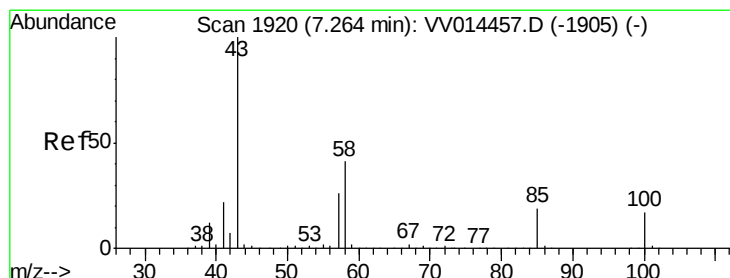
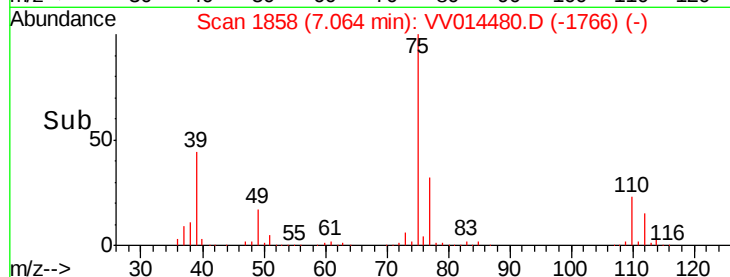
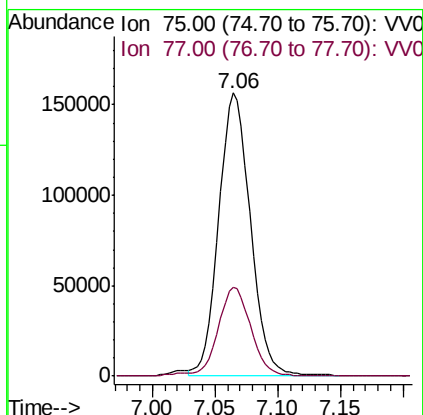
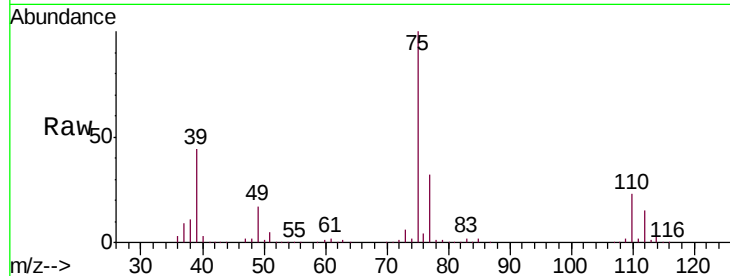




#39
 cis-1,3-Dichloropropene
 Concen: 54.671 ug/L
 RT: 7.06 min Scan# 1858
 Delta R.T. -0.00 min
 Lab File: VV014480.D
 Acq: 03 Feb 2020 10:06

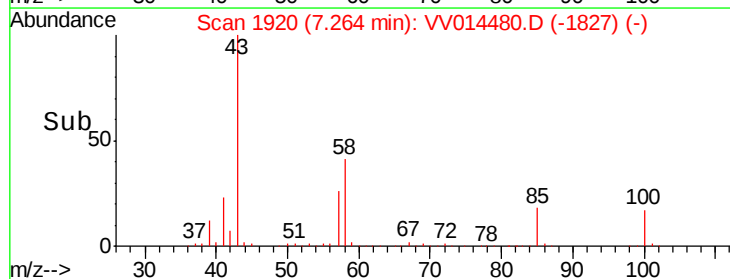
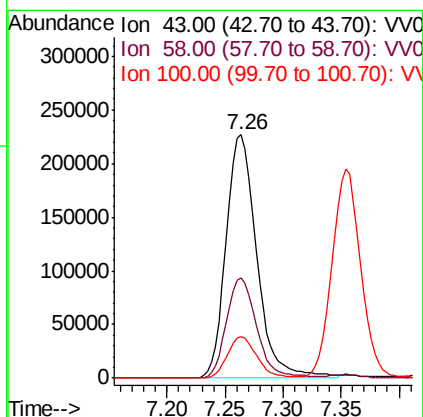
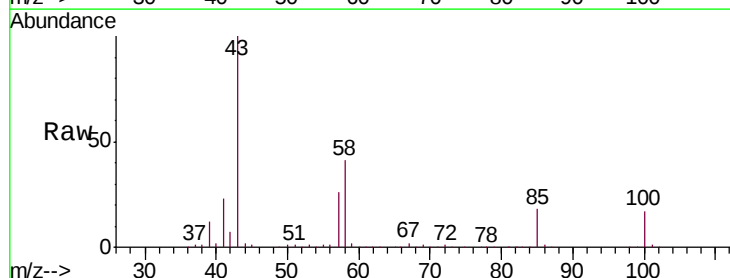
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05088

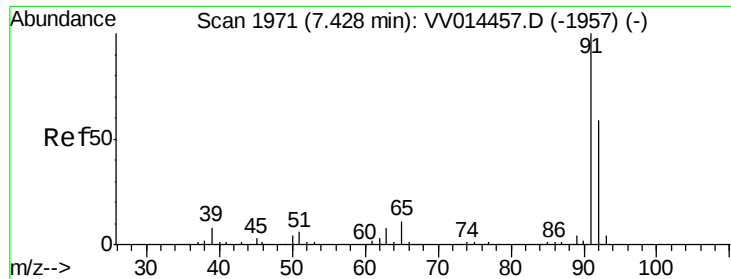
Tgt Ion: 75 Resp: 272659
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.7 42.3



#40
 4-Methyl-2-pentanone
 Concen: 113.225 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VV014480.D
 Acq: 03 Feb 2020 10:06

Tgt Ion: 43 Resp: 415169
 Ion Ratio Lower Upper
 43 100
 58 40.7 31.9 47.9
 100 16.4 12.2 18.4





#42

Toluene

Concen: 54.372 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

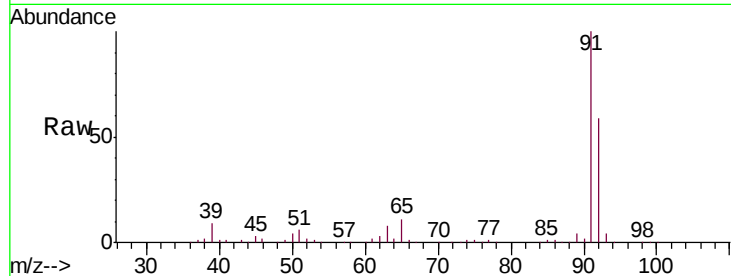
VSTD05088

Tgt Ion: 91 Resp: 690783

Ion Ratio Lower Upper

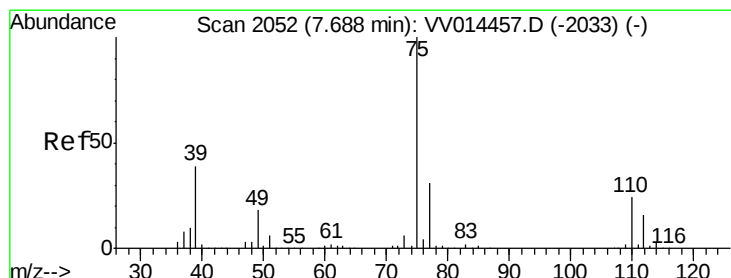
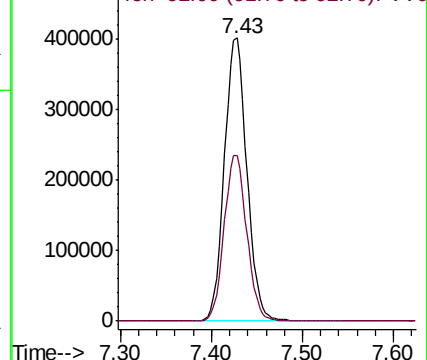
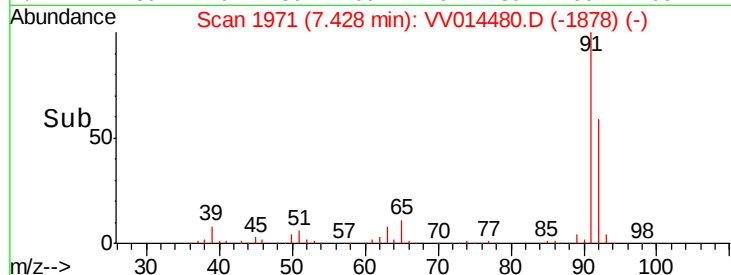
91 100

92 58.6 41.0 76.2



Abundance Ion 91.00 (90.70 to 91.70): VV014480.D (-1878) (-)

Ion 92.00 (91.70 to 92.70): VV014480.D (-1878) (-)



#44

trans-1,3-Dichloropropene

Concen: 56.199 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV014480.D

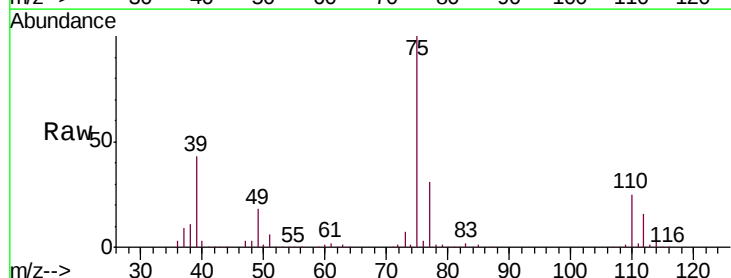
Acq: 03 Feb 2020 10:06

Tgt Ion: 75 Resp: 248907

Ion Ratio Lower Upper

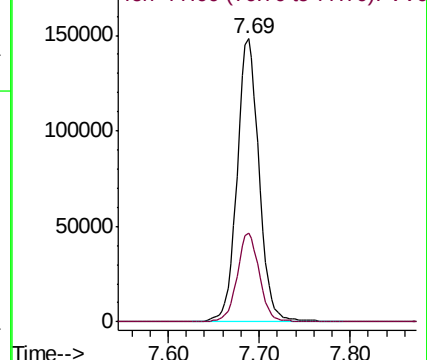
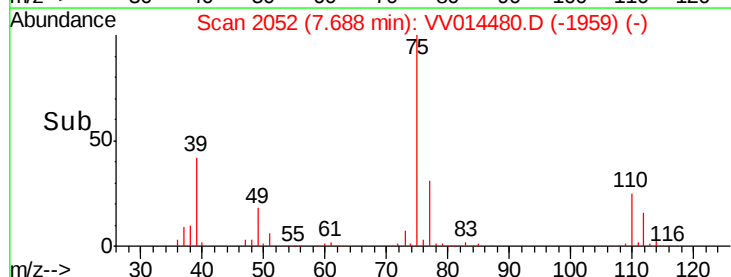
75 100

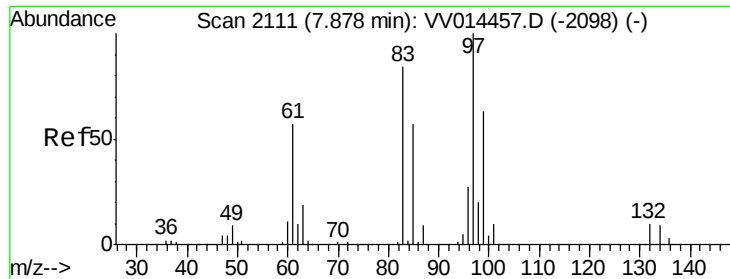
77 31.4 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV014480.D (-1959) (-)

Ion 77.00 (76.70 to 77.70): VV014480.D (-1959) (-)

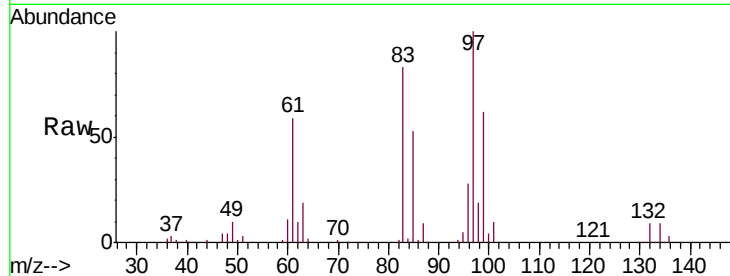




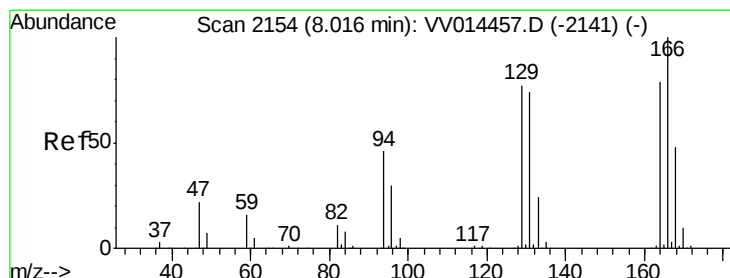
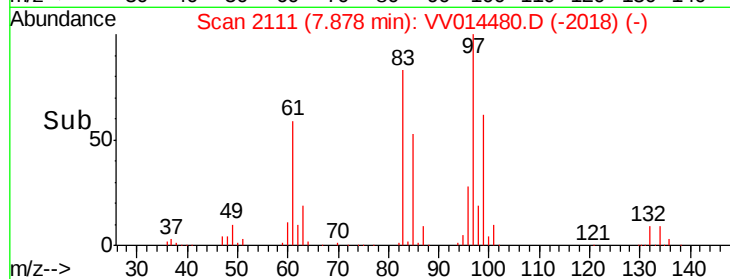
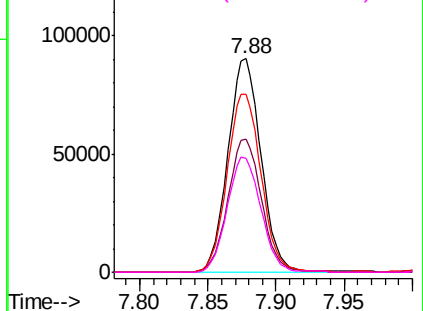
#45
 1,1,2-Trichloroethane
 Concen: 53.187 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV014480.D
 Acq: 03 Feb 2020 10:06

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD05088

Tgt Ion:	97	Resp:	152414
Ion	Ratio	Lower	Upper
97	100		
99	62.3	43.8	81.3
83	83.1	60.0	111.4
85	53.2	37.2	69.0

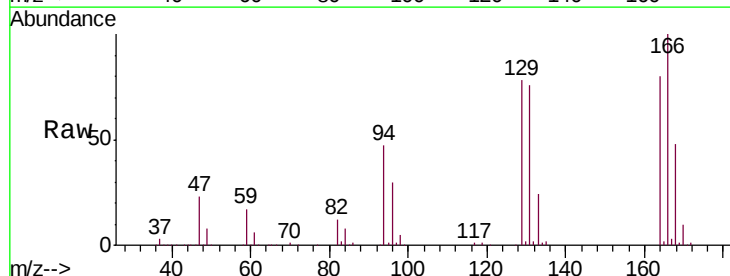


Abundance Ion 97.00 (96.70 to 97.70): VV0
 Ion 99.00 (98.70 to 99.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0
 Ion 85.00 (84.70 to 85.70): VV0

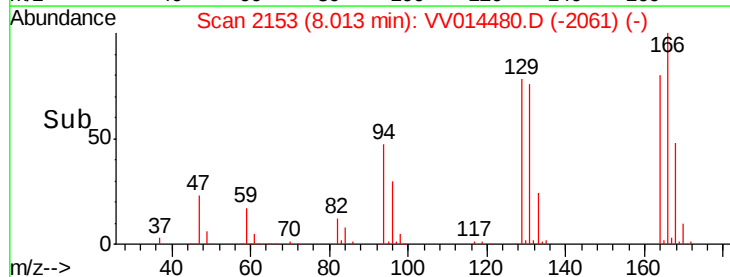
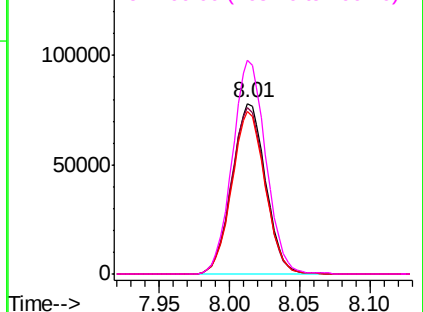


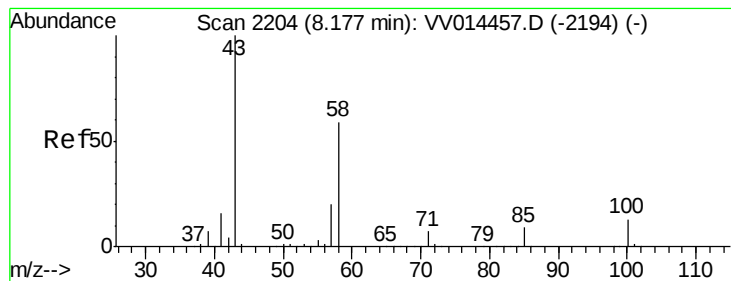
#46
 Tetrachloroethene
 Concen: 58.114 ug/L
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.00 min
 Lab File: VV014480.D
 Acq: 03 Feb 2020 10:06

Tgt Ion:	164	Resp:	130281
Ion	Ratio	Lower	Upper
164	100		
129	97.6	70.4	130.8
131	95.6	65.5	121.7
166	125.4	89.9	166.9



Abundance Ion 164.00 (163.70 to 164.70): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V
 Ion 166.00 (165.70 to 166.70): V





#48

2-Hexanone

Concen: 115.874 ug/L

RT: 8.17 min Scan# 2203

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampled :

VSTD05088

Tgt Ion: 43 Resp: 332355

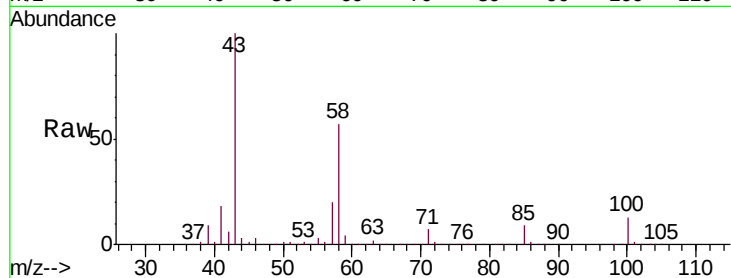
Ion Ratio Lower Upper

43 100

58 57.6 48.0 72.0

57 19.8 15.0 22.6

100 13.4 10.4 15.6

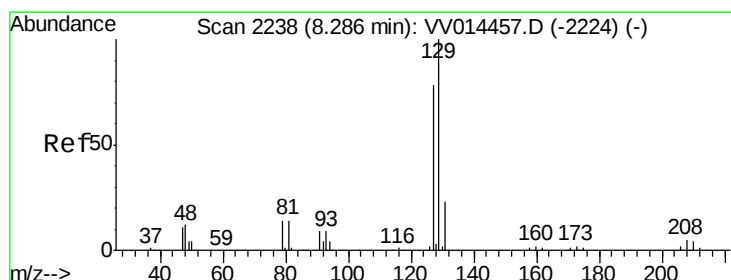
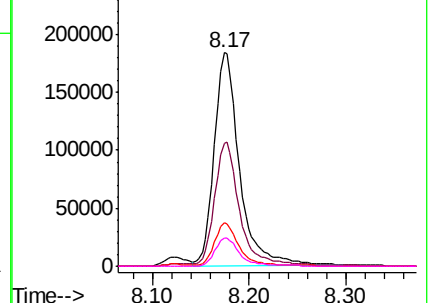
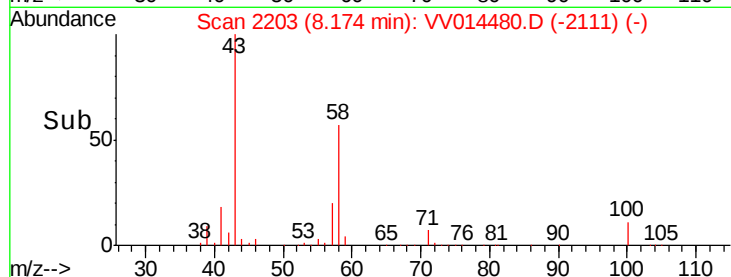


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 57.00 (56.70 to 57.70): VV0

Ion 100.00 (99.70 to 100.70): VV0



#49

Dibromochloromethane

Concen: 56.055 ug/L

RT: 8.28 min Scan# 2237

Delta R.T. -0.00 min

Lab File: VV014480.D

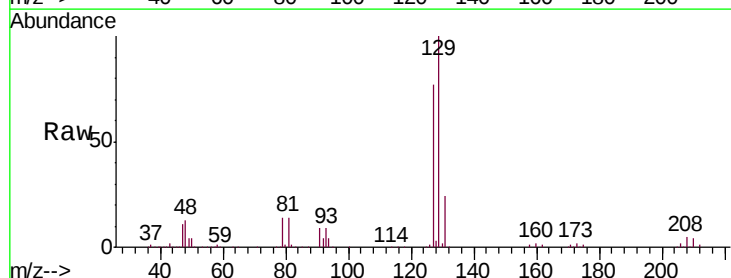
Acq: 03 Feb 2020 10:06

Tgt Ion: 129 Resp: 176734

Ion Ratio Lower Upper

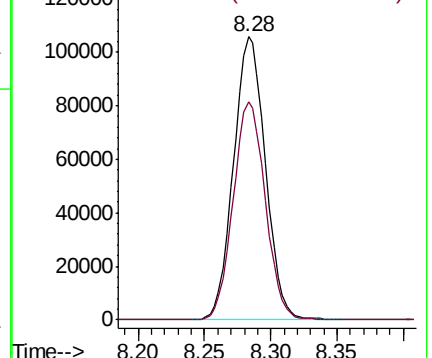
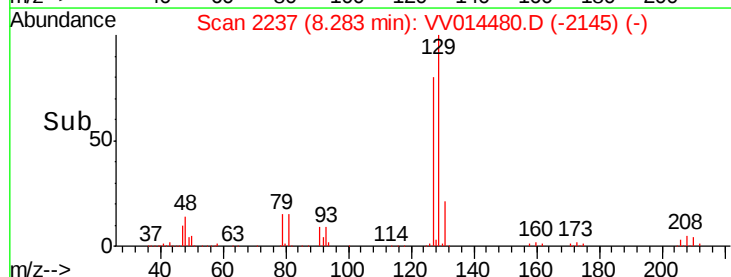
129 100

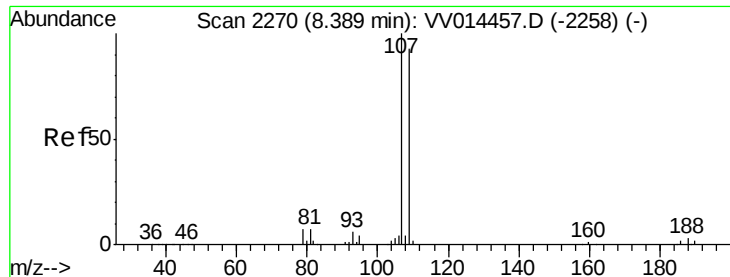
127 77.2 55.1 102.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#50

1,2-Dibromoethane

Concen: 54.236 ug/L

RT: 8.39 min Scan# 2270

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD05088

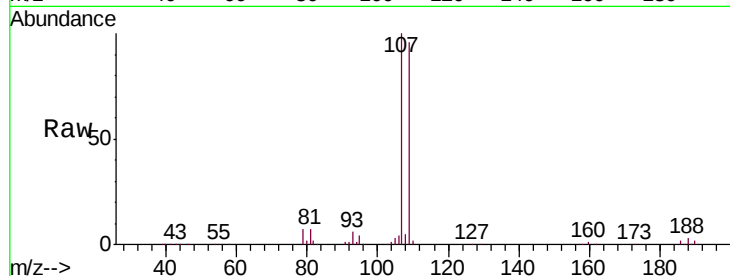
Tgt Ion:107 Resp: 165479

Ion Ratio Lower Upper

107 100

109 95.7 65.5 121.7

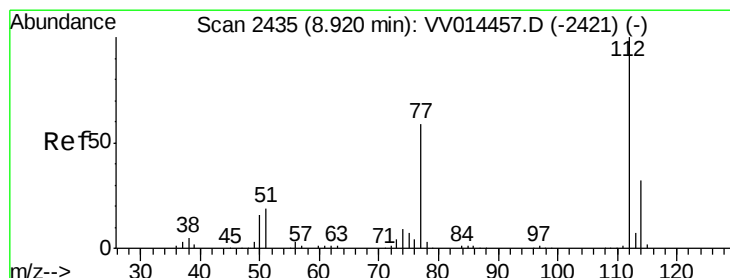
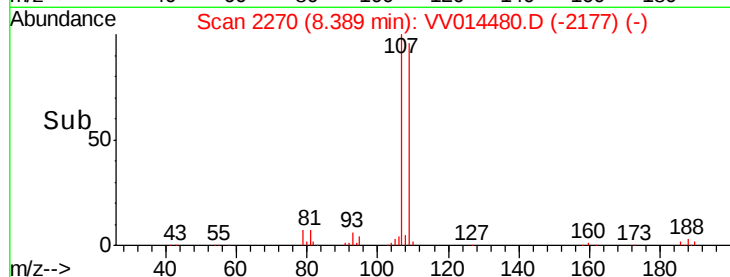
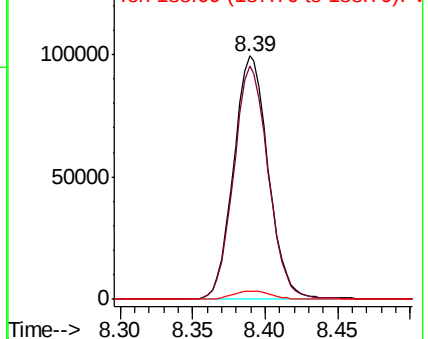
188 3.4 2.6 3.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 54.049 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

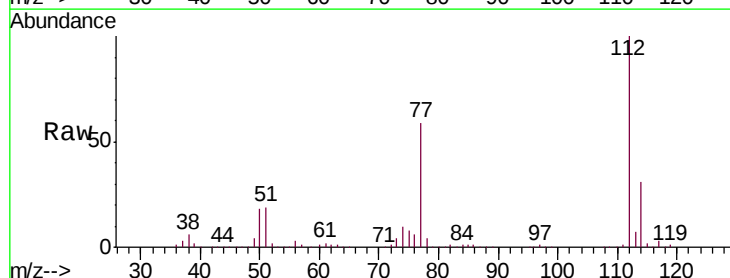
Tgt Ion:112 Resp: 439286

Ion Ratio Lower Upper

112 100

114 30.8 22.5 41.9

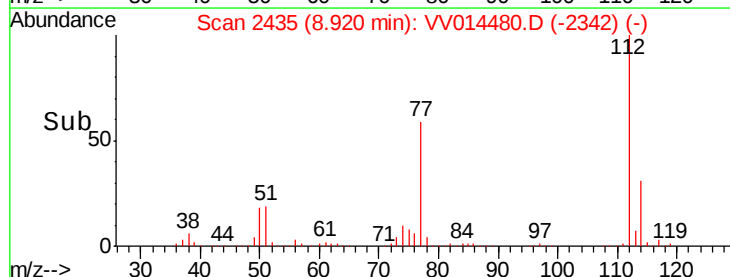
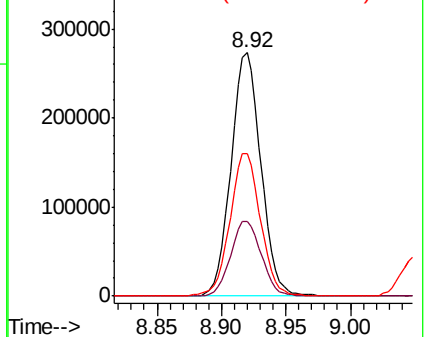
77 58.8 47.5 71.3

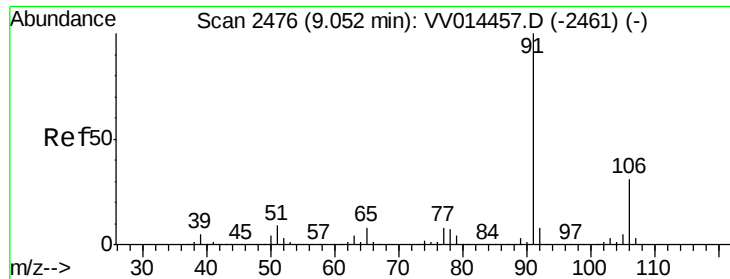


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 54.498 ug/L

RT: 9.05 min Scan# 2475

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

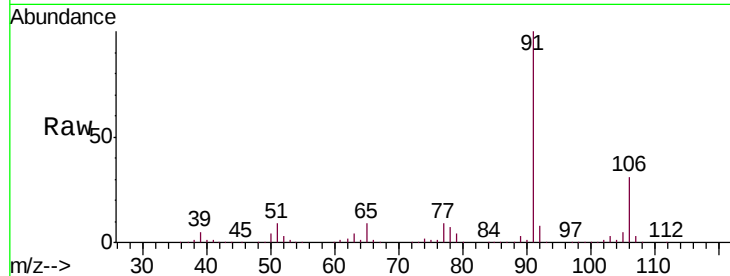
VSTD05088

Tgt Ion: 91 Resp: 777111

Ion Ratio Lower Upper

91 100

106 30.9 21.8 40.6



Abundance Ion 91.00 (90.70 to 91.70): VV014457.D (-2461) (-)

Ion 106.00 (105.70 to 106.70): VV014457.D (-2461) (-)

9.05

400000

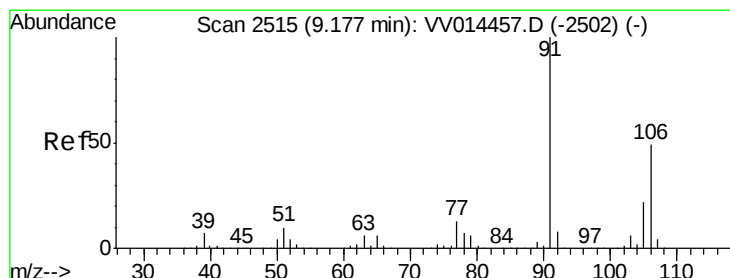
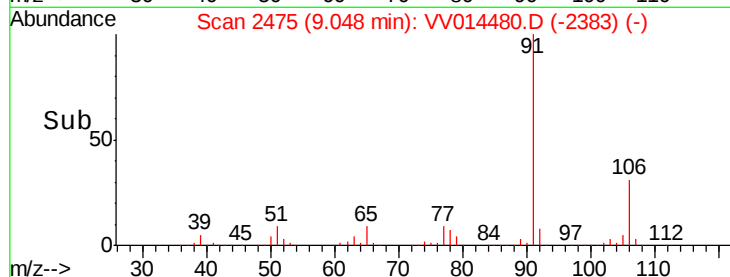
300000

200000

100000

0

Time--> 8.95 9.00 9.05 9.10 9.15



#53

m,p-Xylene

Concen: 55.288 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV014480.D

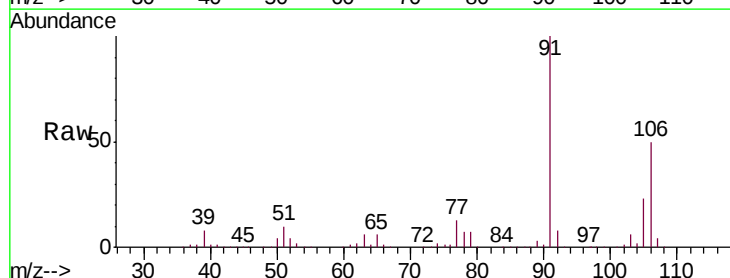
Acq: 03 Feb 2020 10:06

Tgt Ion: 106 Resp: 294387

Ion Ratio Lower Upper

106 100

91 200.5 140.9 261.7



Abundance Ion 106.00 (105.70 to 106.70): VV014457.D (-2502) (-)

Ion 91.00 (90.70 to 91.70): VV014457.D (-2502) (-)

9.18

400000

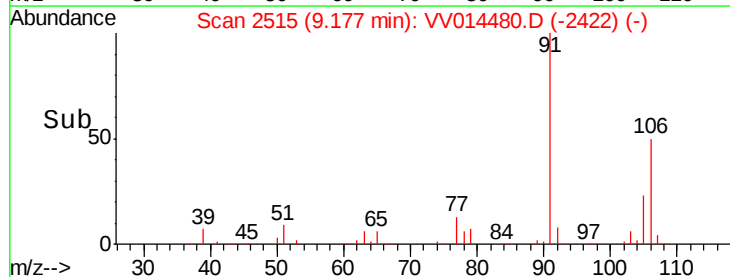
300000

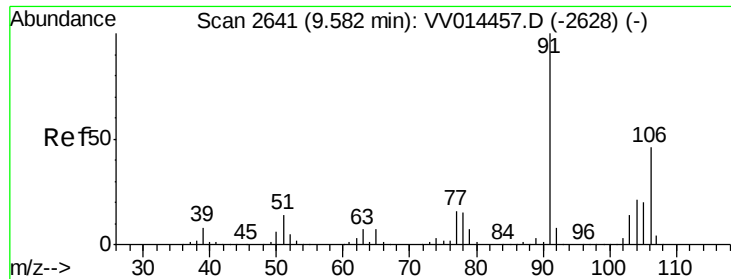
200000

100000

0

Time--> 9.10 9.15 9.20 9.25





#54

o-xylene

Concen: 53.761 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

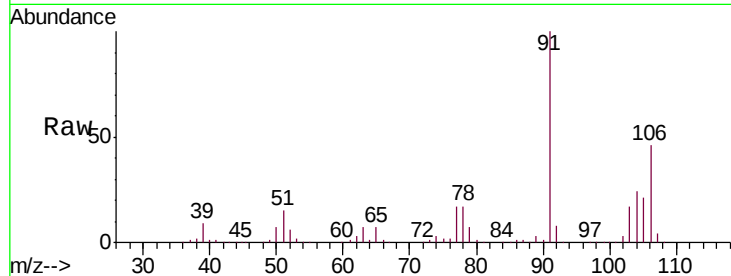
VSTD05088

Tgt Ion:106 Resp: 283639

Ion Ratio Lower Upper

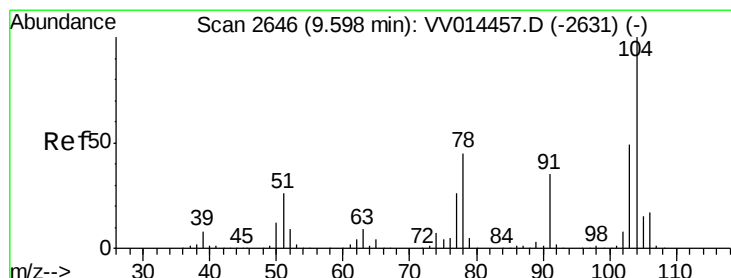
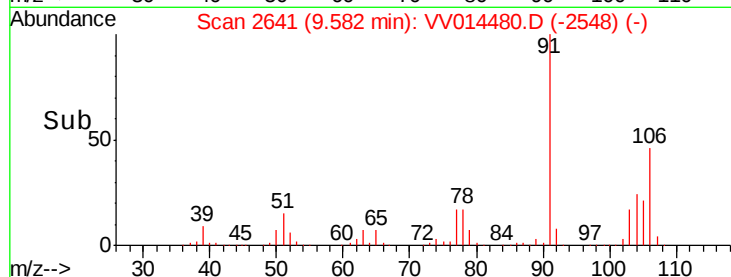
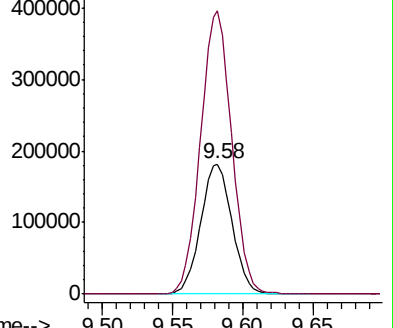
106 100

91 217.2 150.4 279.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 55.470 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. -0.00 min

Lab File: VV014480.D

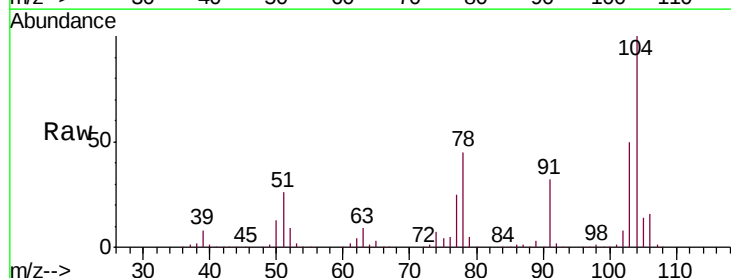
Acq: 03 Feb 2020 10:06

Tgt Ion:104 Resp: 491159

Ion Ratio Lower Upper

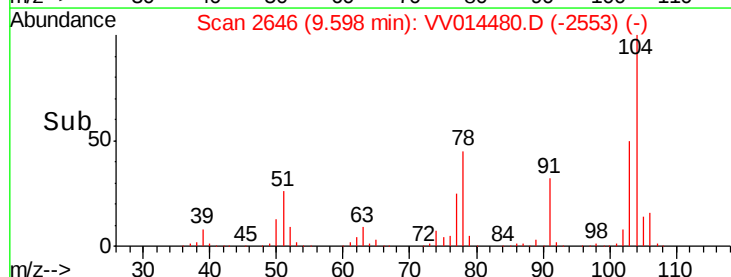
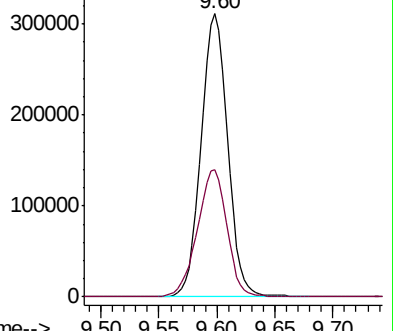
104 100

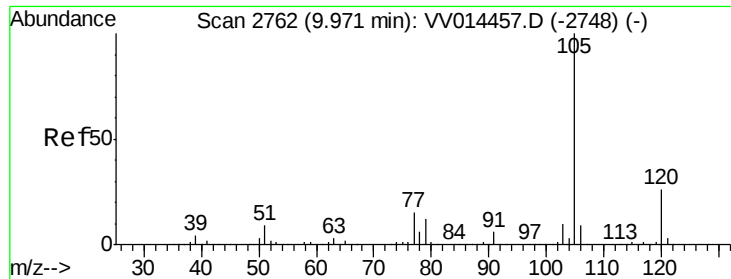
78 45.0 31.3 58.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 55.759 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD05088

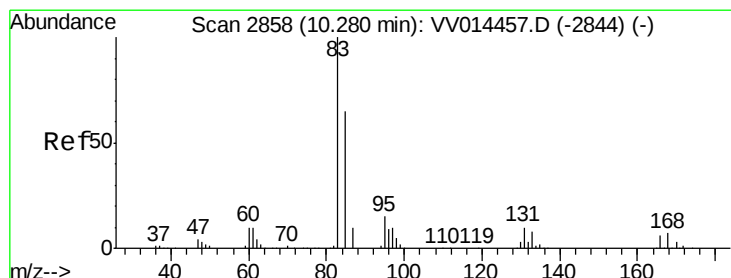
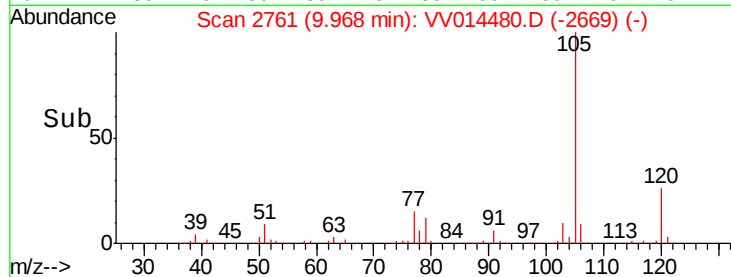
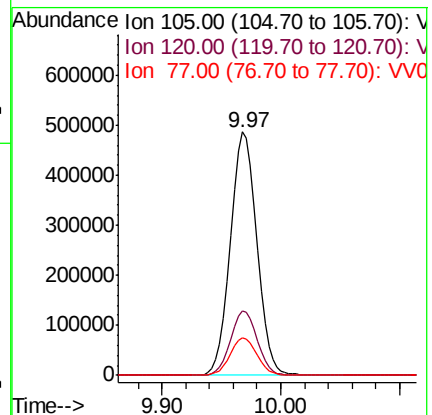
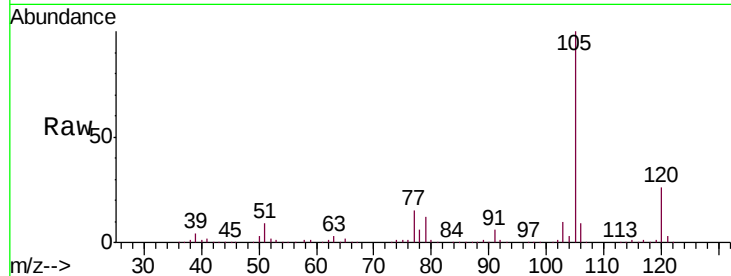
Tgt Ion: 105 Resp: 752200

Ion Ratio Lower Upper

105 100

120 26.7 21.0 31.6

77 15.5 12.5 18.7



#58

1,1,2,2-Tetrachloroethane

Concen: 53.032 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

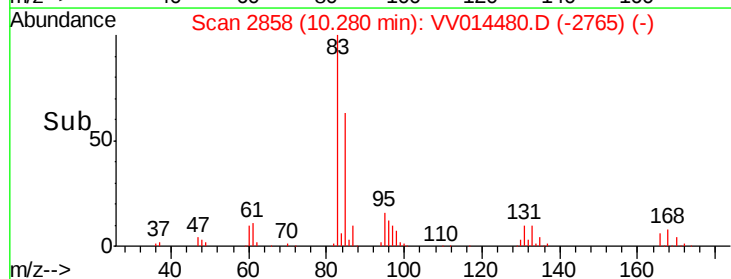
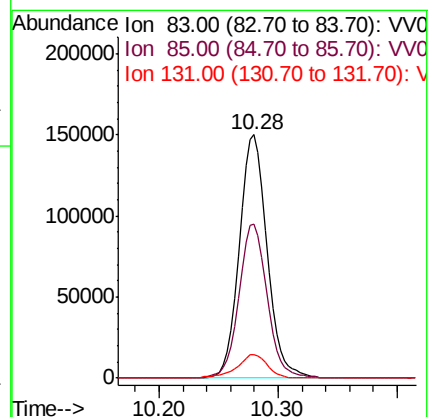
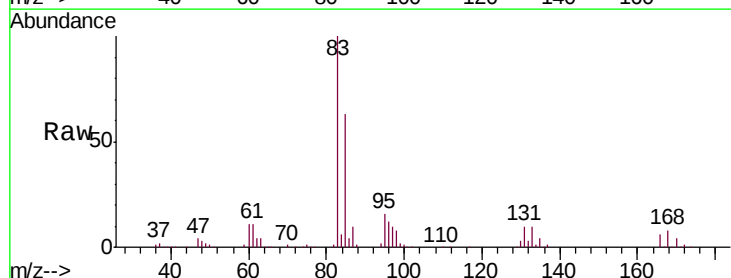
Tgt Ion: 83 Resp: 242777

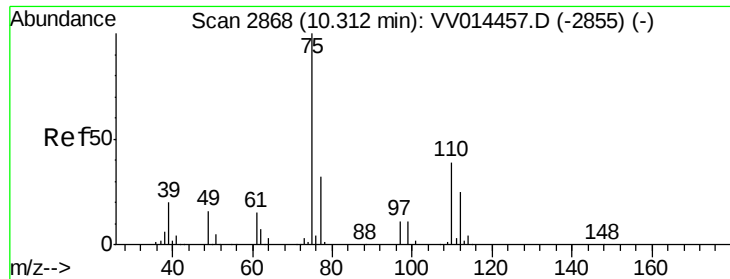
Ion Ratio Lower Upper

83 100

85 63.5 44.2 82.2

131 9.9 7.6 11.4





#59

1,2,3-Trichloropropane

Concen: 51.712 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

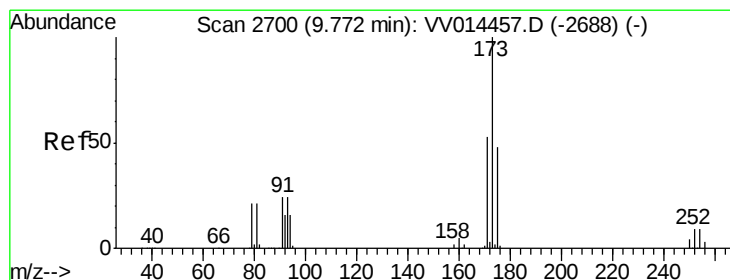
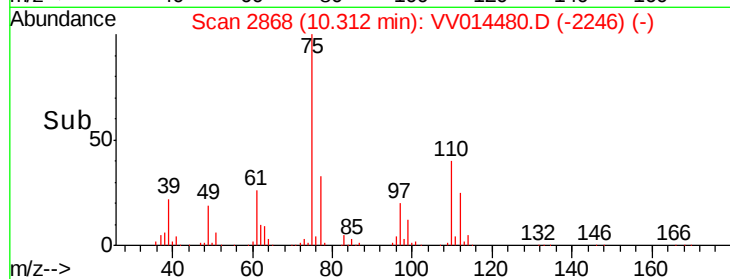
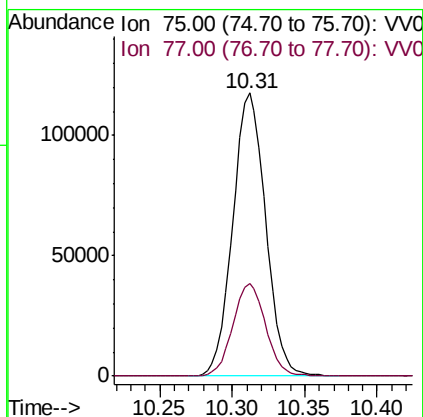
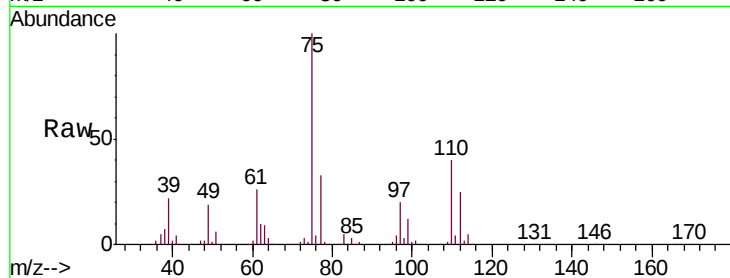
VSTD05088

Tgt Ion: 75 Resp: 185349

Ion Ratio Lower Upper

75 100

77 32.7 25.9 38.9



#61

Bromoform

Concen: 55.883 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

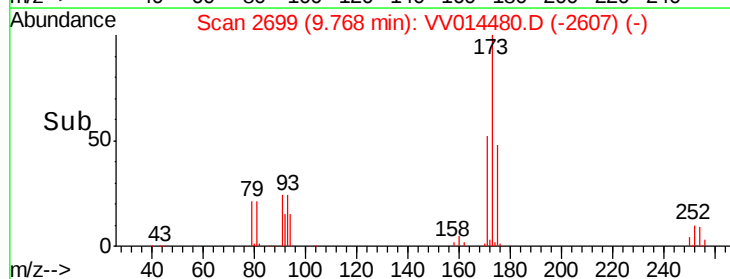
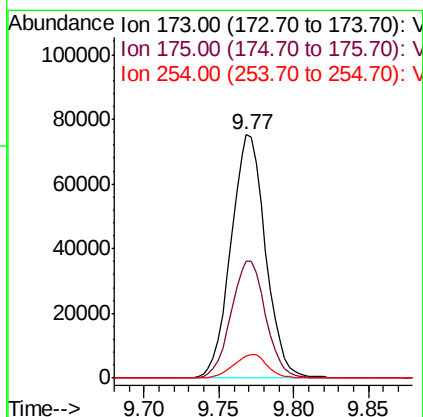
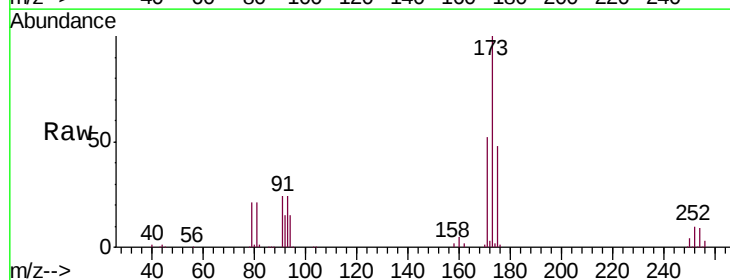
Tgt Ion: 173 Resp: 120963

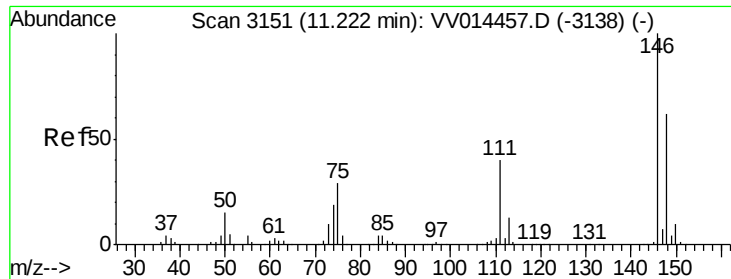
Ion Ratio Lower Upper

173 100

175 48.3 38.8 58.2

254 9.7 7.0 10.6





#62

1,3-Dichlorobenzene

Concen: 54.301 ug/L

RT: 11.22 min Scan# 3150

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD05088

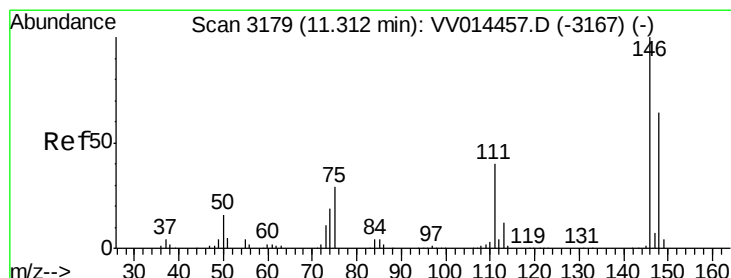
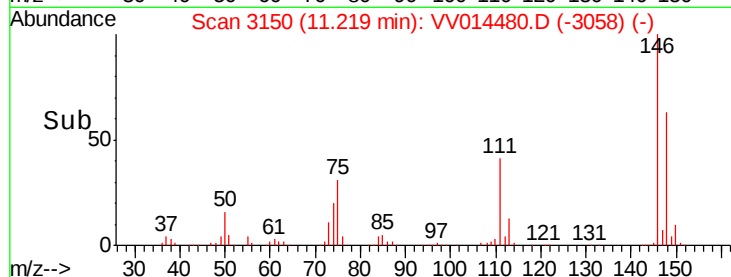
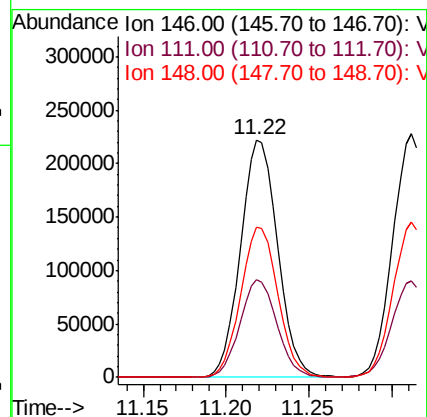
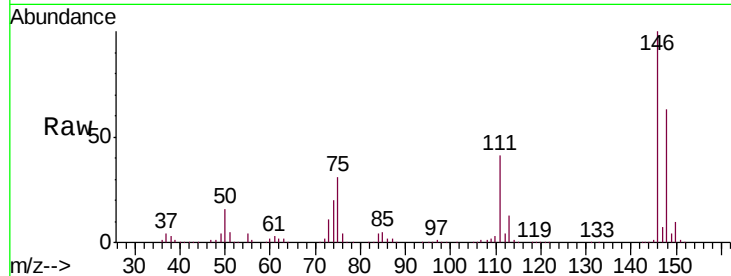
Tgt Ion:146 Resp: 345987

Ion Ratio Lower Upper

146 100

111 41.2 29.3 54.3

148 63.1 44.9 83.3



#63

1,4-Dichlorobenzene

Concen: 53.666 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

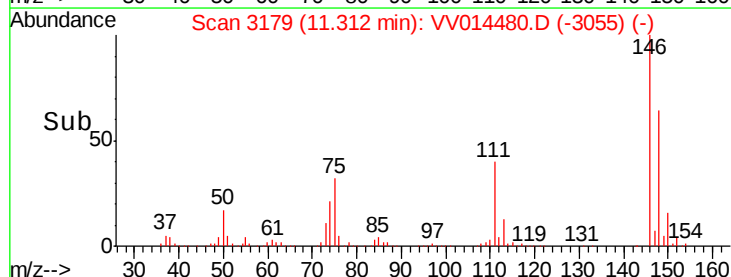
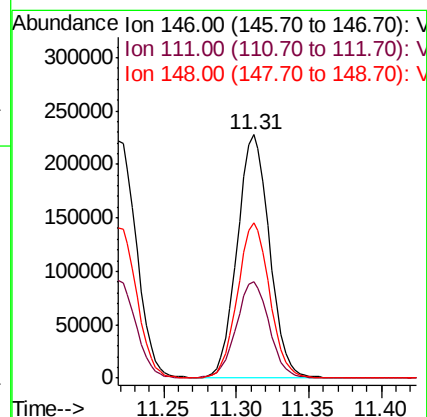
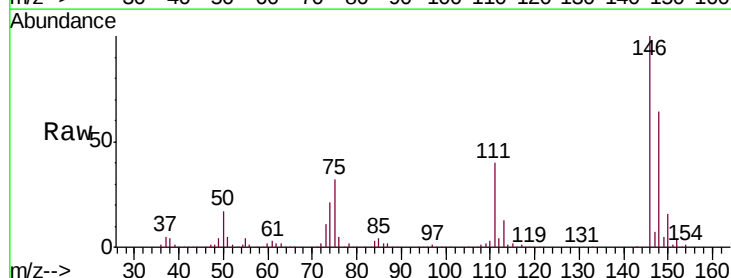
Tgt Ion:146 Resp: 352016

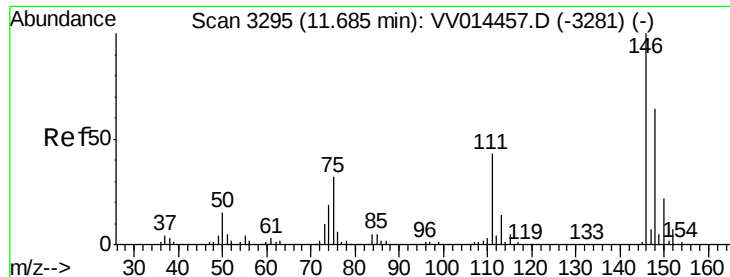
Ion Ratio Lower Upper

146 100

111 39.9 28.1 52.1

148 63.5 43.5 80.9





#65

1,2-Dichlorobenzene

Concen: 52.764 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampled :

VSTD05088

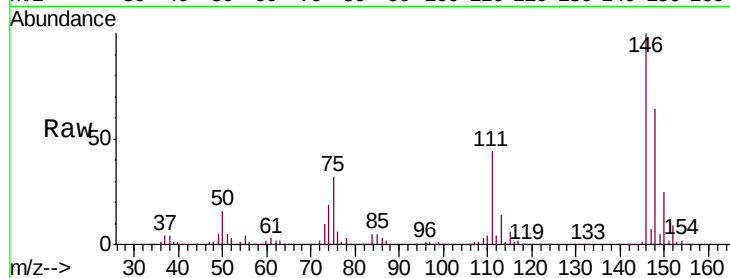
Tgt Ion: 146 Resp: 332308

Ion Ratio Lower Upper

146 100

111 43.6 34.6 51.8

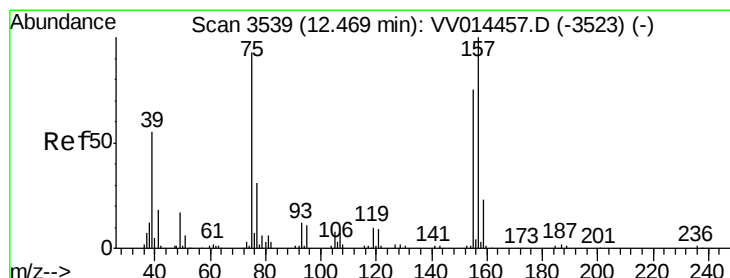
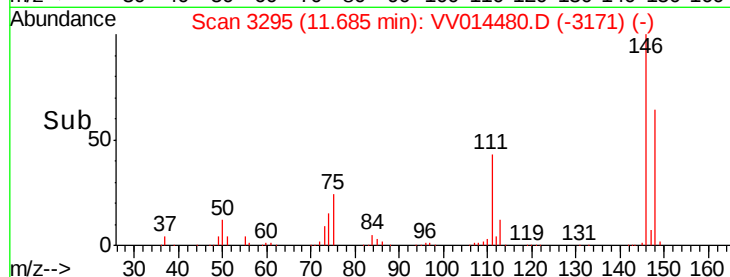
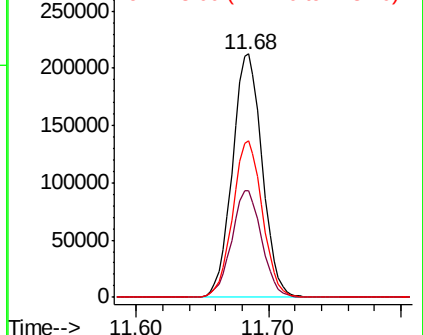
148 64.1 51.2 76.8



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 53.693 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

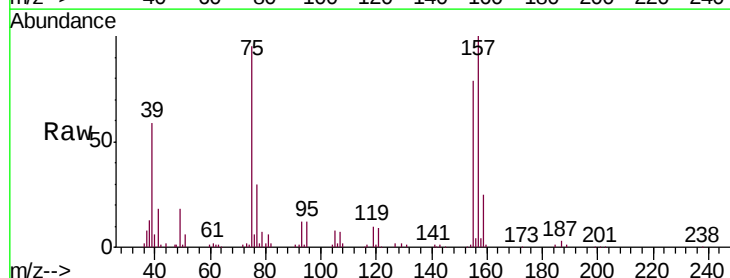
Tgt Ion: 75 Resp: 53756

Ion Ratio Lower Upper

75 100

155 82.6 64.2 96.2

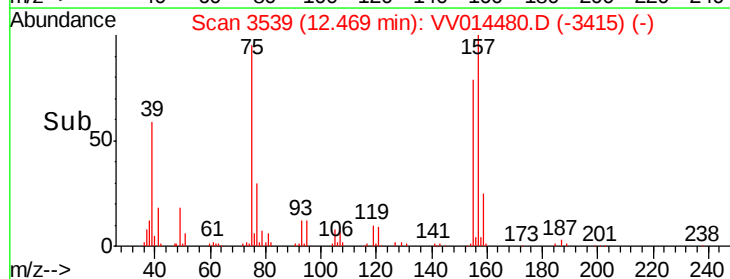
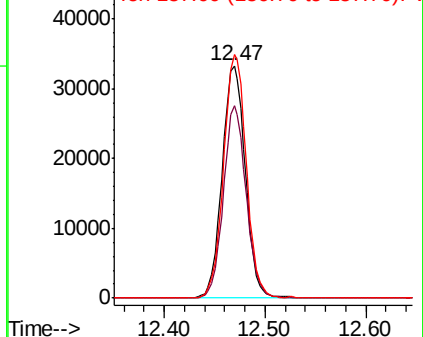
157 104.7 83.4 125.2

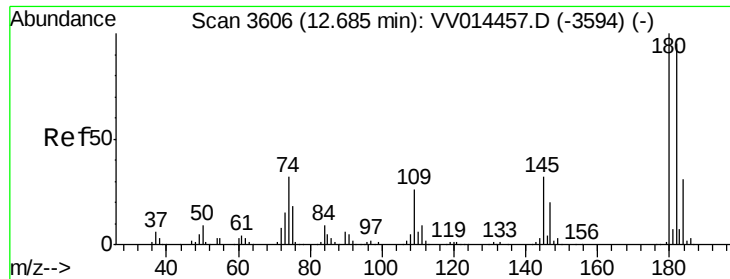


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

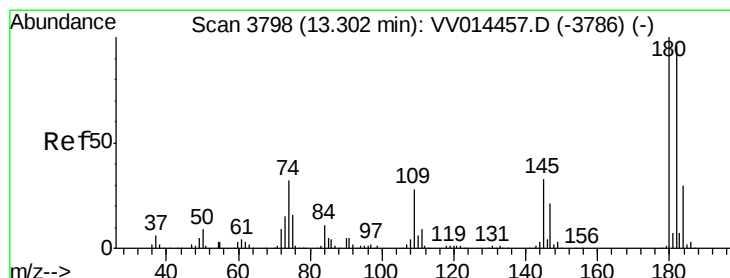
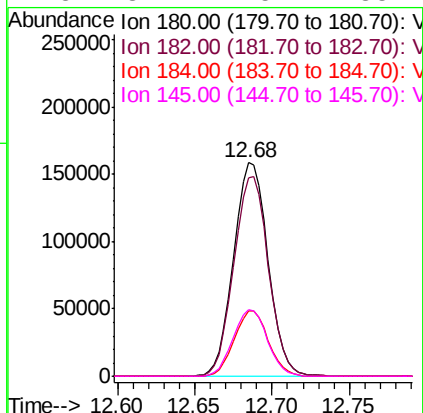
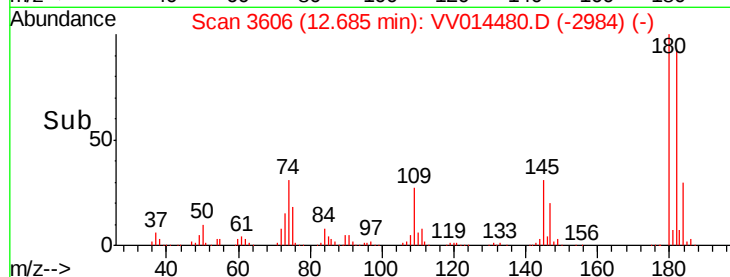
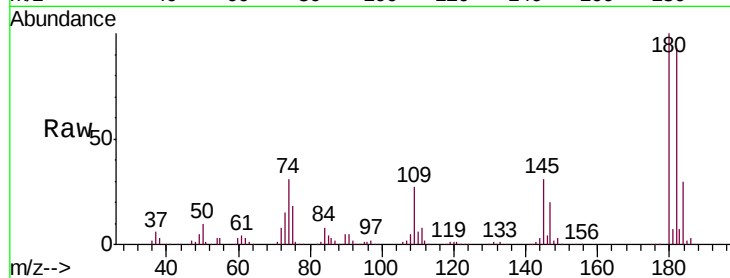




#67
 1,3,5-Trichlorobenzene
 Concen: 57.194 ug/L
 RT: 12.68 min Scan# 3606
 Delta R.T. -0.00 min
 Lab File: VV014480.D
 Acq: 03 Feb 2020 10:06

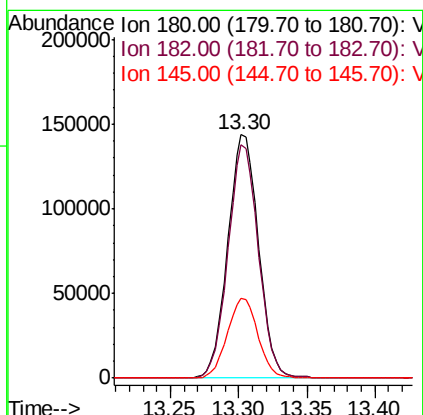
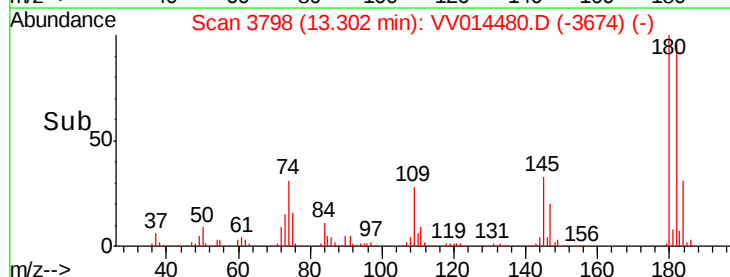
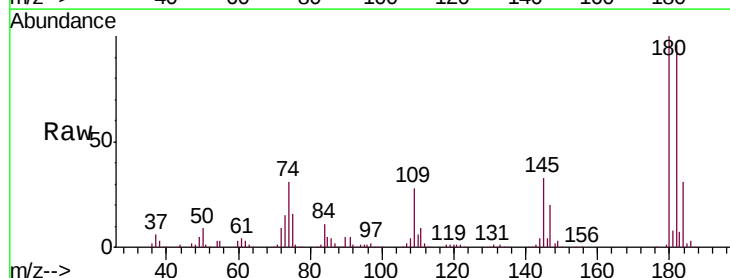
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05088

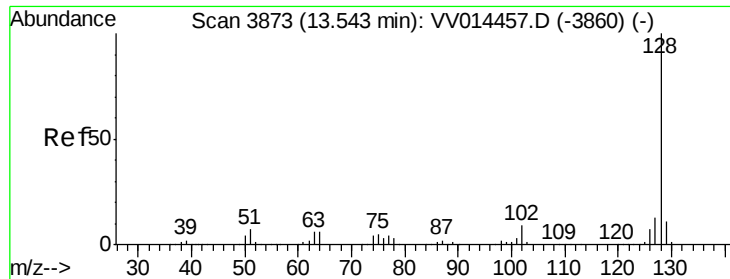
Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.3	114.5
184	30.2	24.2	36.2
145	31.2	25.4	38.2



#68
 1,2,4-trichlorobenzene
 Concen: 57.762 ug/L
 RT: 13.30 min Scan# 3798
 Delta R.T. -0.00 min
 Lab File: VV014480.D
 Acq: 03 Feb 2020 10:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.6	76.0	114.0
145	32.6	26.2	39.2





#69

Naphthalene

Concen: 58.070 ug/L

RT: 13.54 min Scan# 3873

Delta R.T. -0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

Instrument :

MSVOA_V

ClientSampleId :

VSTD05088

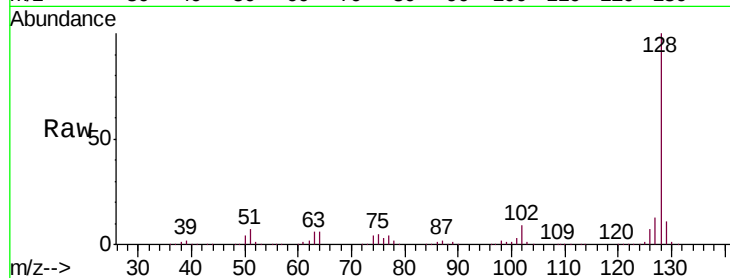
Tgt Ion:128 Resp: 717096

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

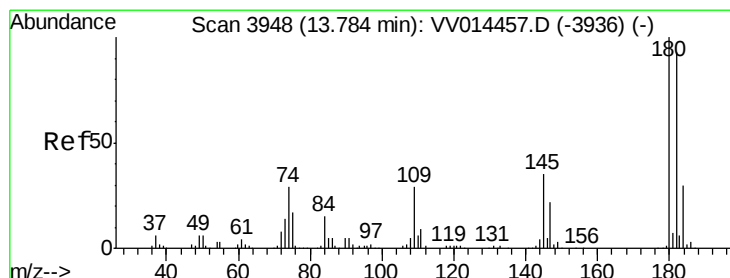
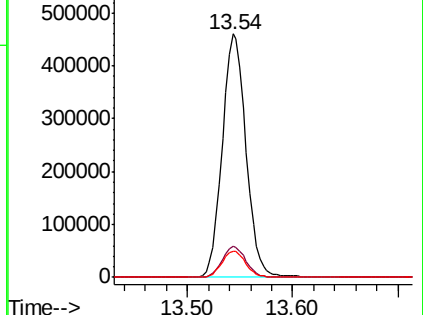
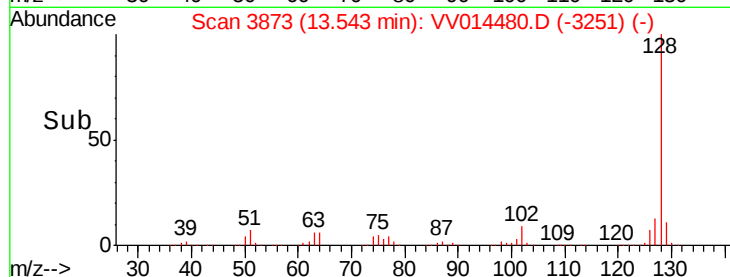
129 10.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 57.422 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014480.D

Acq: 03 Feb 2020 10:06

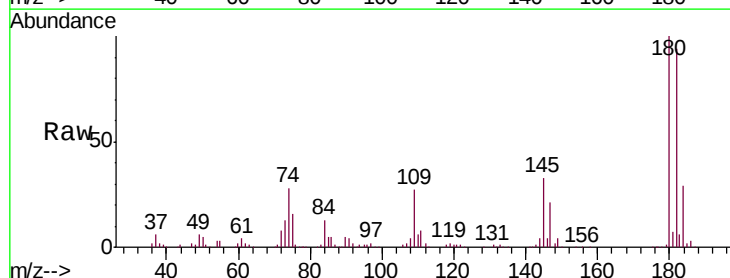
Tgt Ion:180 Resp: 215760

Ion Ratio Lower Upper

180 100

182 94.2 77.5 116.3

145 33.7 27.8 41.6



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

