

Data File : VV012340.D
Acq On : 22 Aug 2019 11:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

Quant Time: Aug 23 06:53:58 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM082119WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Aug 22 13:15:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	207265	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	205476	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	116383	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	53846	54.87	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	109.74%
7) Chloroethane-d5	1.58	69	34484	49.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	98.02%
11) 1,1-Dichloroethene-d2	2.13	63	95247	49.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	98.62%
21) 2-Butanone-d5	3.92	46	69861	91.34	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	91.34%
24) Chloroform-d	4.40	84	145830	52.28	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.56%
26) 1,2-Dichloroethane-d4	5.08	65	102866	53.48	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.96%
32) Benzene-d6	5.10	84	266154	48.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.14%
36) 1,2-Dichloropropane-d6	6.11	67	72849	49.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.32%
41) Toluene-d8	7.36	98	277333	51.93	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.86%
43) trans-1,3-Dichloropropene-	7.66	79	45403	49.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	99.50%
47) 2-Hexanone-d5	8.13	63	53378	87.28	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	87.28%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	107295	50.84	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.68%
64) 1,2-Dichlorobenzene-d4	11.67	152	127247	49.73	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	99.46%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	103242	58.148	ug/L 99
3) Chloromethane	1.25	50	61940	61.204	ug/L 98
5) Vinyl chloride	1.33	62	58696	58.636	ug/L 100
6) Bromomethane	1.52	94	28021	53.693	ug/L 92
8) Chloroethane	1.60	64	28211	49.812	ug/L 99
9) Trichlorofluoromethane	1.77	101	112534	55.880	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	47785	52.365	ug/L 98
12) 1,1-Dichloroethene	2.14	96	42451	50.918	ug/L 88
13) Acetone	2.18	43	43333	75.493	ug/L 100
14) Carbon disulfide	2.32	76	157149	50.063	ug/L 100
15) Methyl Acetate	2.45	43	50426	46.818	ug/L 98
16) Methylene chloride	2.53	84	65782	51.788	ug/L 99
17) trans-1,2-Dichloroethene	2.79	96	63557	50.377	ug/L 97
18) Methyl tert-butyl Ether	2.80	73	208735	49.941	ug/L 99
19) 1,1-Dichloroethane	3.23	63	112496	53.102	ug/L 99
20) cis-1,2-Dichloroethene	3.96	96	73736	52.521	ug/L 98
22) 2-Butanone	4.01	43	75256	91.366	ug/L 99

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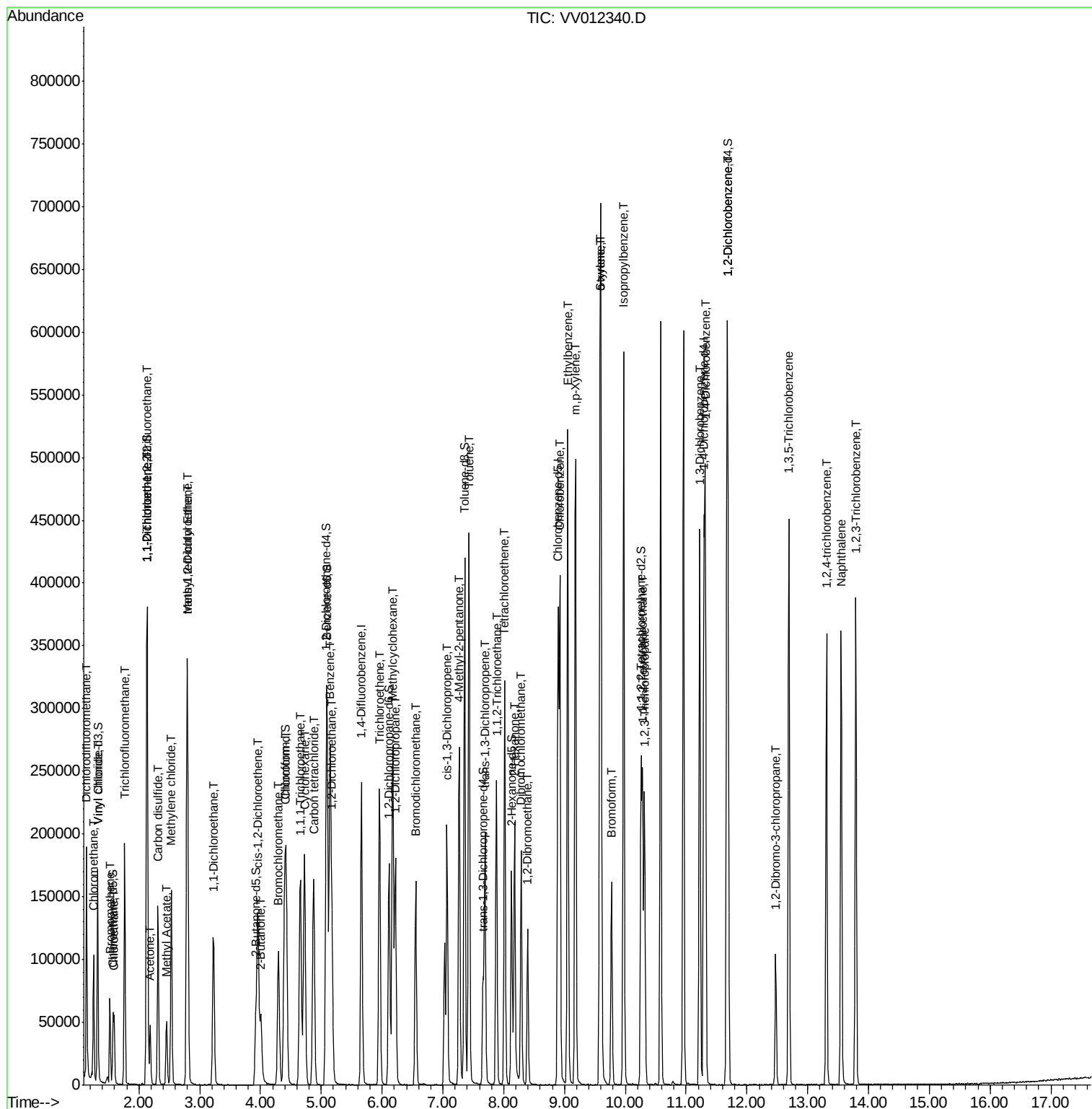
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	42698	54.966	ug/L	95
25) Chloroform	4.42	83	137503	52.575	ug/L	99
27) 1,2-Dichloroethane	5.17	62	113766	53.515	ug/L	99
29) Cyclohexane	4.73	56	91650	48.993	ug/L	98
30) 1,1,1-Trichloroethane	4.66	97	133475	50.463	ug/L	98
31) Carbon tetrachloride	4.87	117	126933	51.085	ug/L	99
33) Benzene	5.14	78	262301	50.644	ug/L	100
34) Trichloroethene	5.96	95	77530	51.108	ug/L	98
35) Methylcyclohexane	6.17	83	116995	51.006	ug/L	97
37) 1,2-Dichloropropane	6.22	63	58541	49.859	ug/L	98
38) Bromodichloromethane	6.55	83	106984	52.058	ug/L	96
39) cis-1,3-Dichloropropene	7.07	75	115724	53.093	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	157510	99.773	ug/L	99
42) Toluene	7.43	91	309524	52.980	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	107014	51.515	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	71951	53.009	ug/L	97
46) Tetrachloroethene	8.02	164	74571	51.371	ug/L	97
48) 2-Hexanone	8.18	43	114499	96.070	ug/L	97
49) Dibromochloromethane	8.29	129	96228	52.426	ug/L	99
50) 1,2-Dibromoethane	8.39	107	78746	52.275	ug/L	98
51) Chlorobenzene	8.92	112	212153	52.456	ug/L	99
52) Ethylbenzene	9.05	91	357580	52.957	ug/L	99
53) m,p-Xylene	9.18	106	141287	53.915	ug/L	97
54) o-xylene	9.59	106	136930	53.235	ug/L	99
55) Styrene	9.60	104	236756	54.967	ug/L	99
56) Isopropylbenzene	9.97	105	373349	53.576	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	102322	51.878	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	86823	51.894	ug/L	99
61) Bromoform	9.78	173	74180	48.281	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	186227	51.394	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	190222	52.022	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	188781	51.485	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	24179	45.328	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	146973	51.170	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	115077	51.208	ug/L	99
69) Naphthalene	13.55	128	287611	47.640	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	122548	53.261	ug/L	99

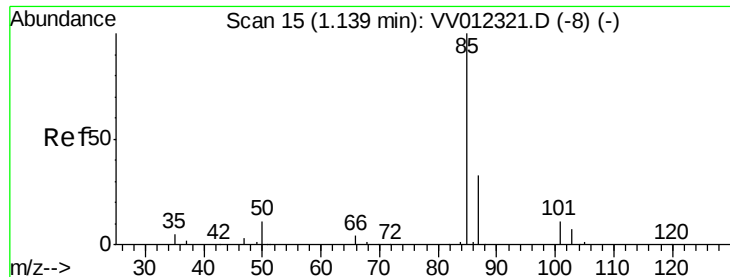
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 58.148 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

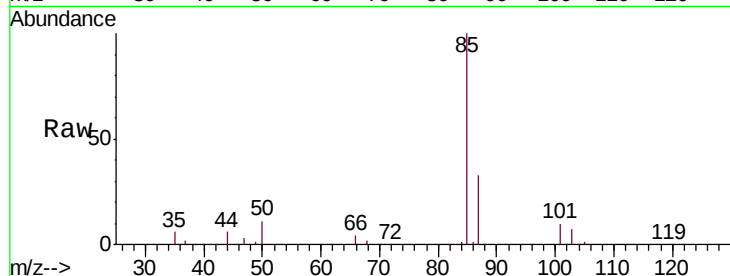
VSTD05078

Tgt Ion: 85 Resp: 103242

Ion Ratio Lower Upper

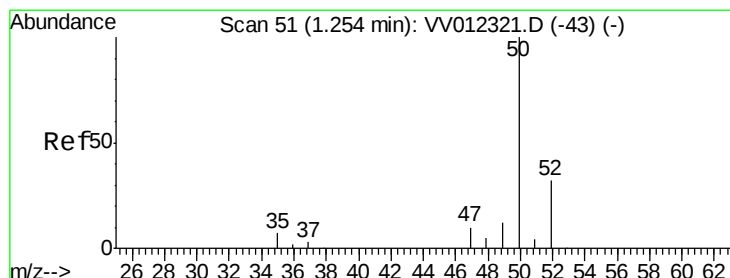
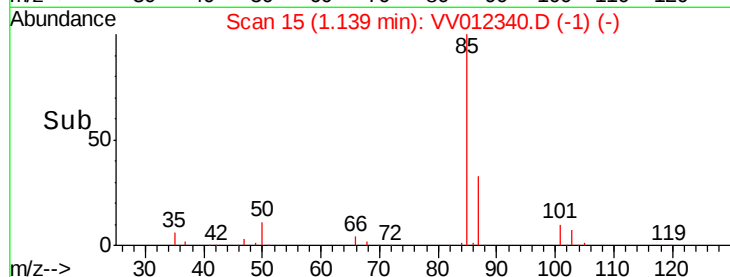
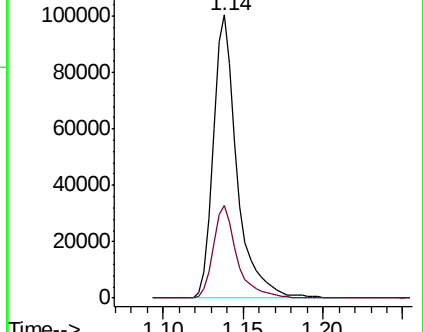
85 100

87 32.8 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV012321.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV012321.D (-8) (-)



#3

Chloromethane

Concen: 61.204 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012340.D

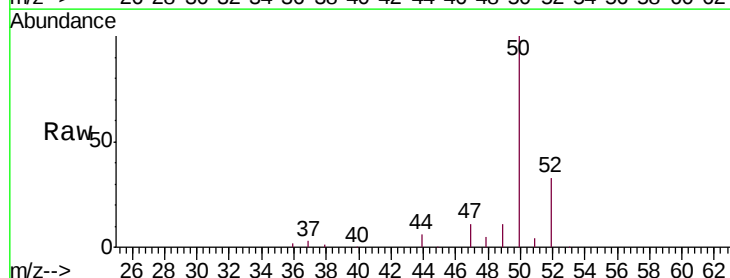
Acq: 22 Aug 2019 11:00

Tgt Ion: 50 Resp: 61940

Ion Ratio Lower Upper

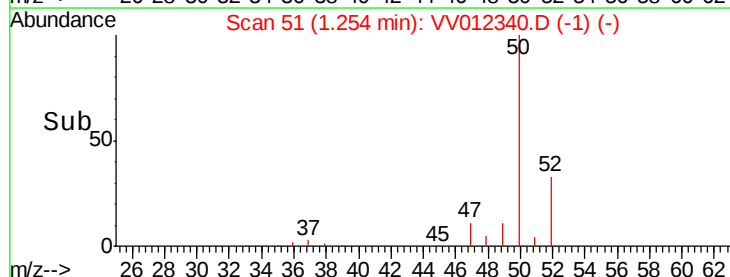
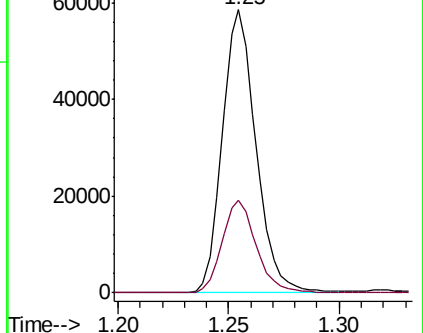
50 100

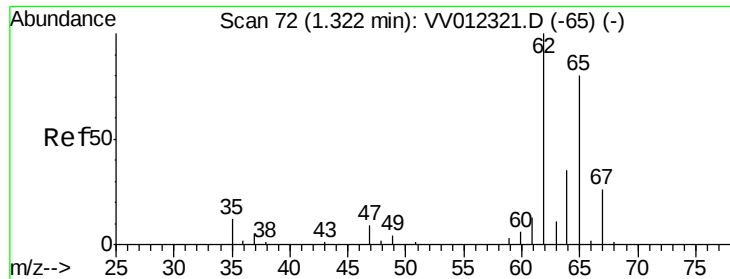
52 32.9 23.8 44.2



Abundance Ion 50.00 (49.70 to 50.70): VV012321.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV012321.D (-43) (-)





#5

Vinyl chloride

Concen: 58.636 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

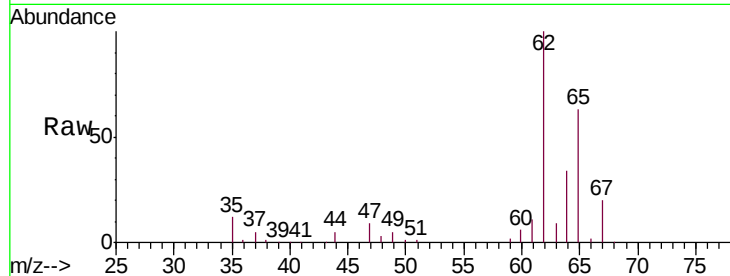
VSTD05078

Tgt Ion: 62 Resp: 58696

Ion Ratio Lower Upper

62 100

64 33.6 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0

1.33

60000

50000

40000

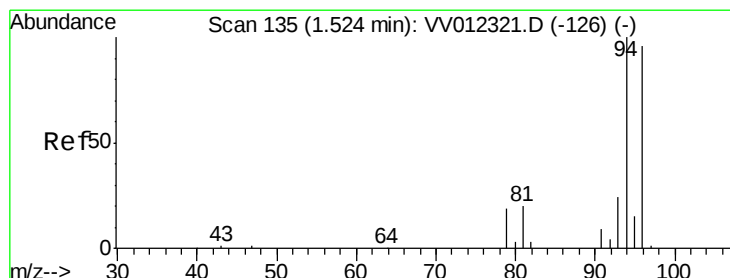
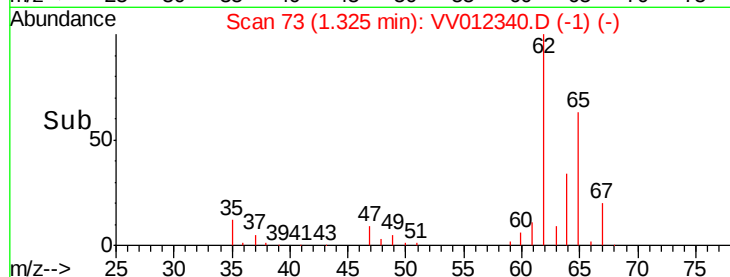
30000

20000

10000

0

Time-->



#6

Bromomethane

Concen: 53.693 ug/L

RT: 1.52 min Scan# 135

Delta R.T. 0.00 min

Lab File: VV012340.D

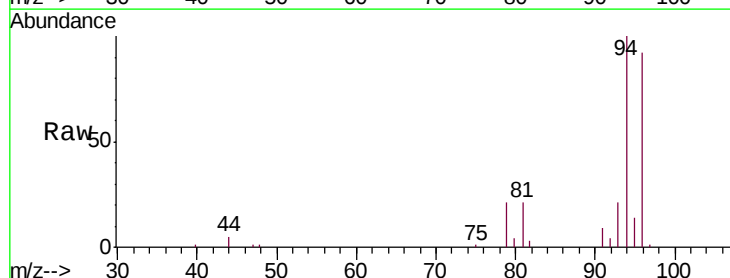
Acq: 22 Aug 2019 11:00

Tgt Ion: 94 Resp: 28021

Ion Ratio Lower Upper

94 100

96 92.2 70.1 130.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.52

25000

20000

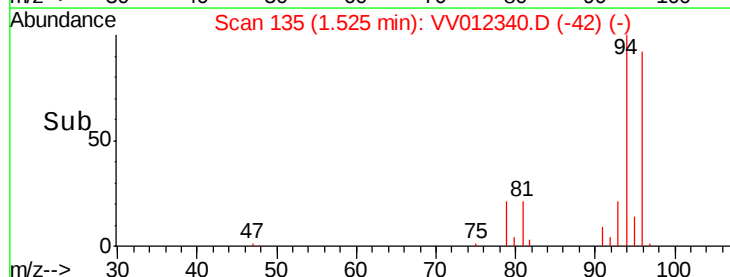
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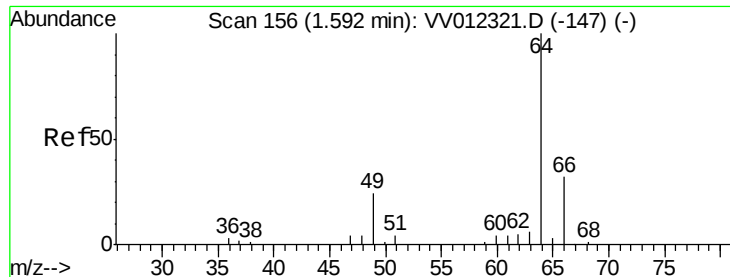
10000

5000

0

Time-->

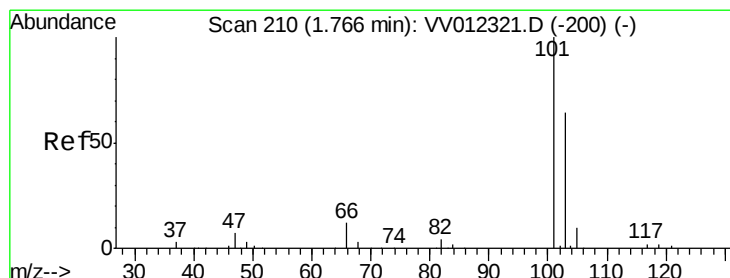
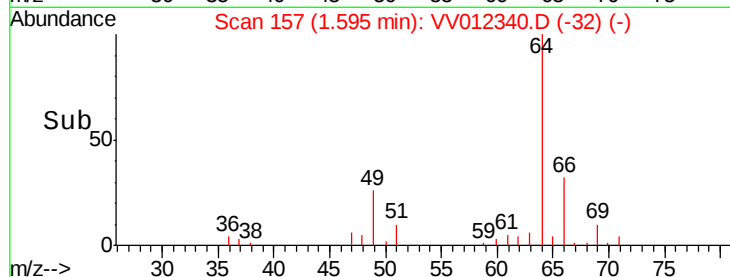
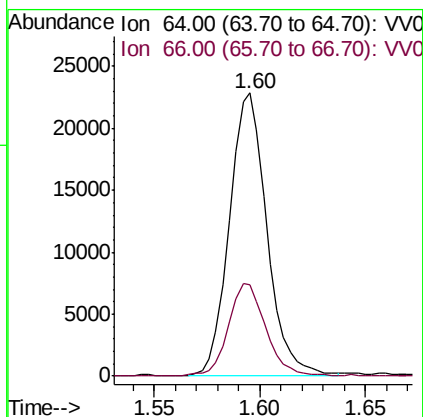
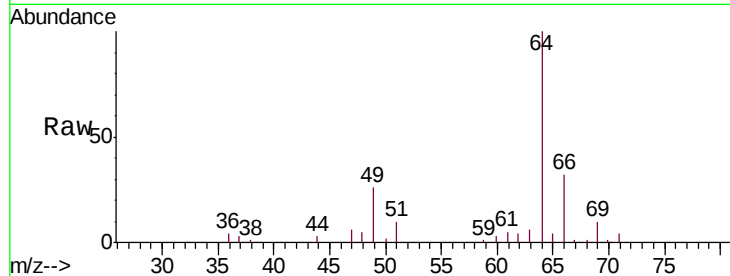




#8
Chloroethane
Concen: 49.812 ug/L
RT: 1.60 min Scan# 157
Delta R.T. 0.00 min
Lab File: VV012340.D
Acq: 22 Aug 2019 11:00

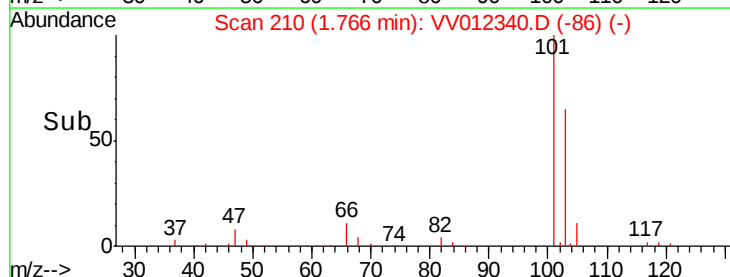
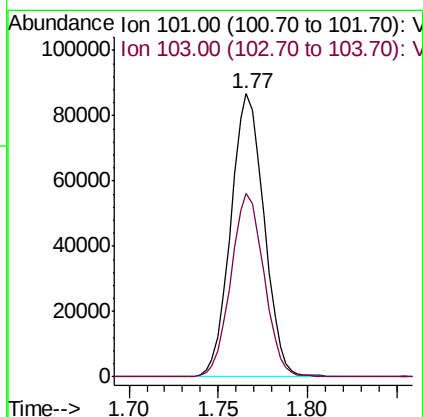
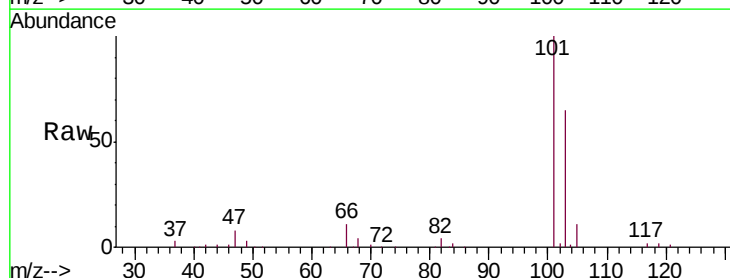
Instrument :
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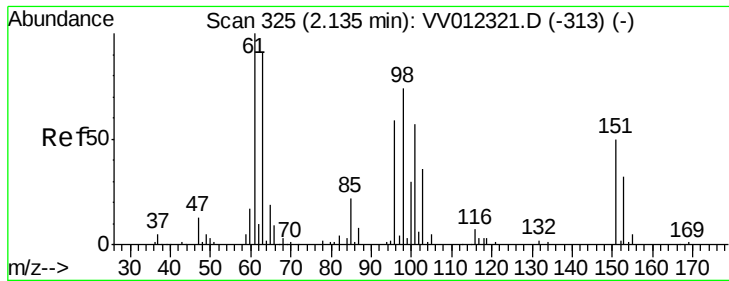
Tgt Ion: 64 Resp: 28211
Ion Ratio Lower Upper
64 100
66 32.1 22.8 42.4



#9
Trichlorofluoromethane
Concen: 55.880 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV012340.D
Acq: 22 Aug 2019 11:00

Tgt Ion: 101 Resp: 112534
Ion Ratio Lower Upper
101 100
103 64.5 53.2 79.8





#10

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

Concen: 52.365 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

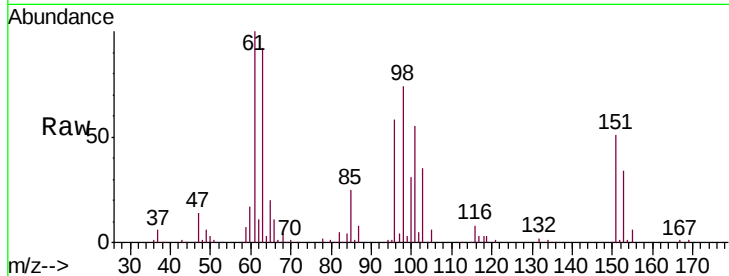
Tgt Ion:101 Resp: 47785

Ion Ratio Lower Upper

101 100

85 44.6 33.7 50.5

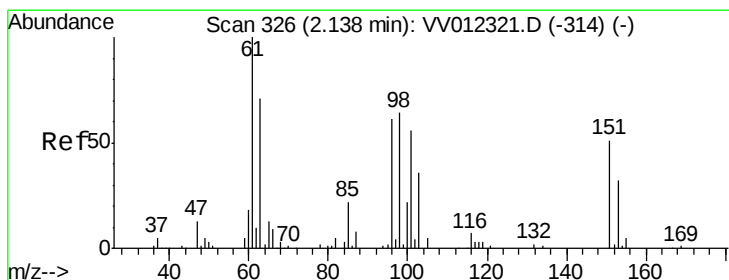
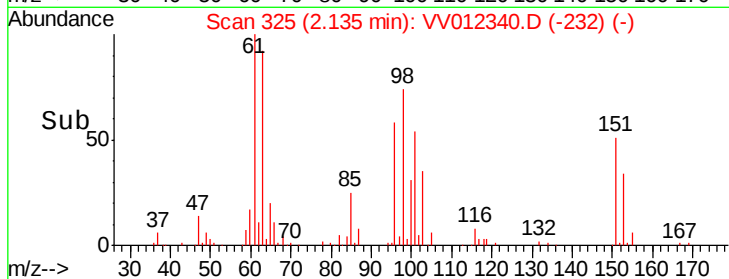
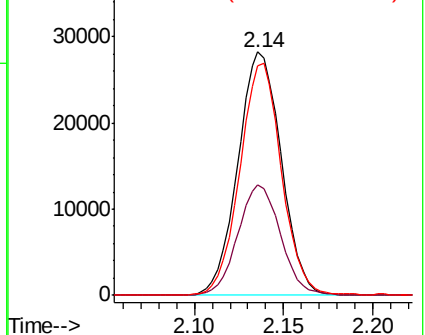
151 91.7 73.0 109.6



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: 50.918 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

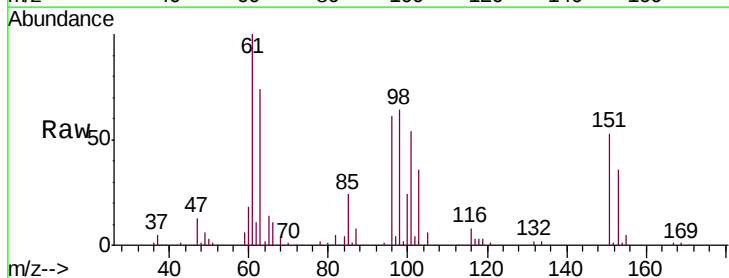
Tgt Ion: 96 Resp: 42451

Ion Ratio Lower Upper

96 100

61 164.4 122.6 227.8

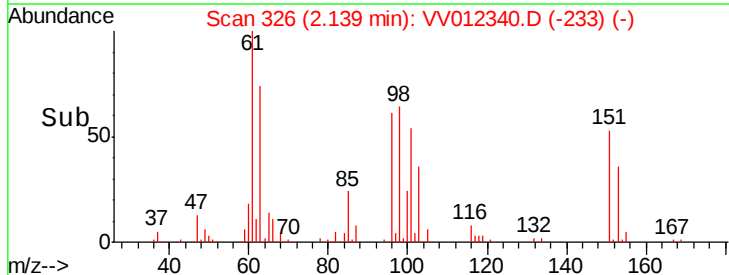
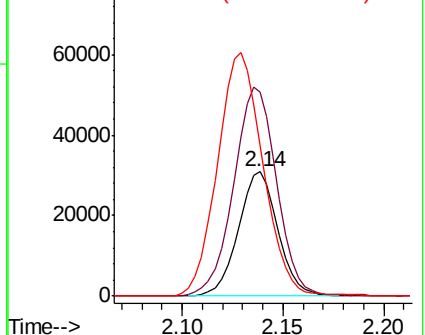
63 121.0 98.6 183.2

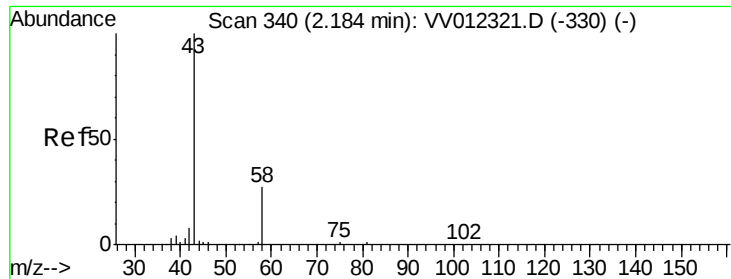


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 75.493 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

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ClientSampleId :

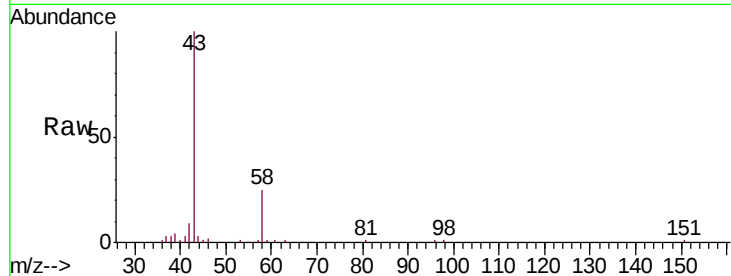
VSTD05078

Tgt Ion: 43 Resp: 43333

Ion Ratio Lower Upper

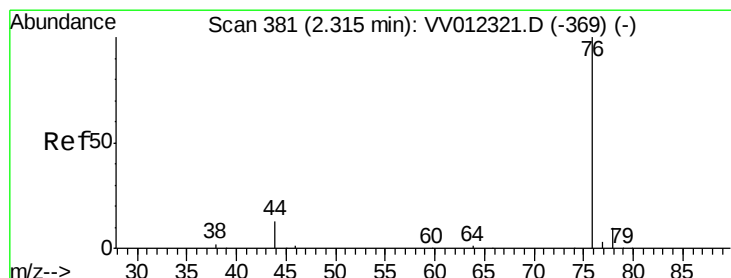
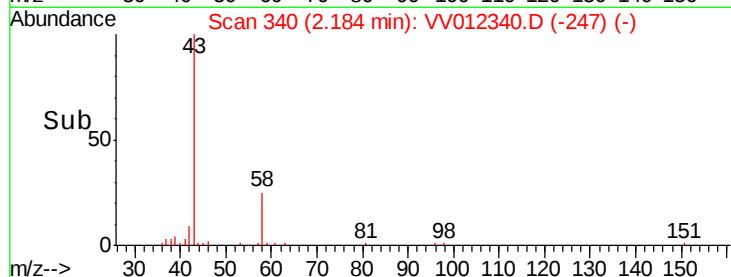
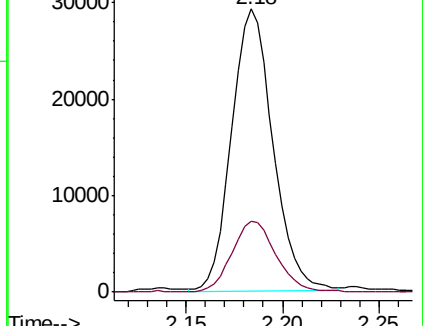
43 100

58 26.9 0.0 54.2



Abundance Ion 43.00 (42.70 to 43.70): VV012321.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV012321.D (-330) (-)



#14

Carbon disulfide

Concen: 50.063 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012340.D

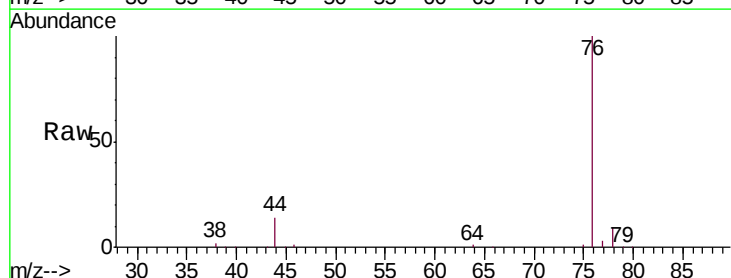
Acq: 22 Aug 2019 11:00

Tgt Ion: 76 Resp: 157149

Ion Ratio Lower Upper

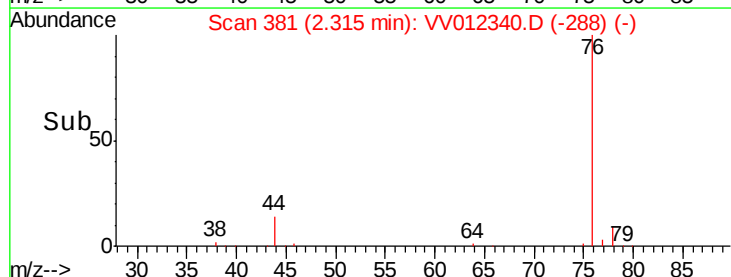
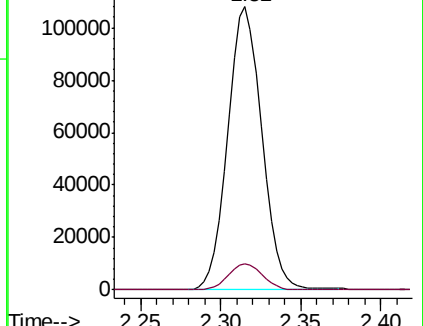
76 100

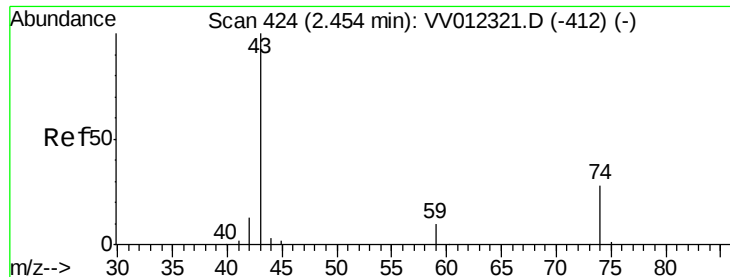
78 9.3 7.6 11.4



Abundance Ion 76.00 (75.70 to 76.70): VV012321.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV012321.D (-369) (-)





#15

Methyl Acetate

Concen: 46.818 ug/L

RT: 2.45 min Scan# 424

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

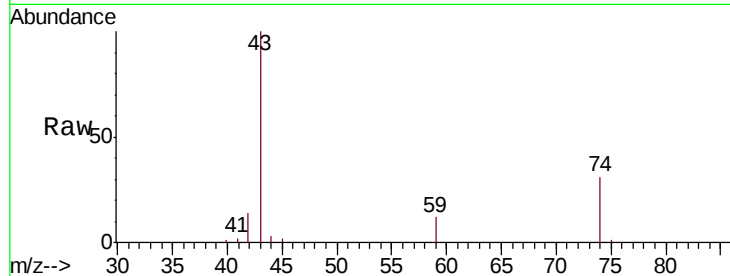
VSTD05078

Tgt Ion: 43 Resp: 50426

Ion Ratio Lower Upper

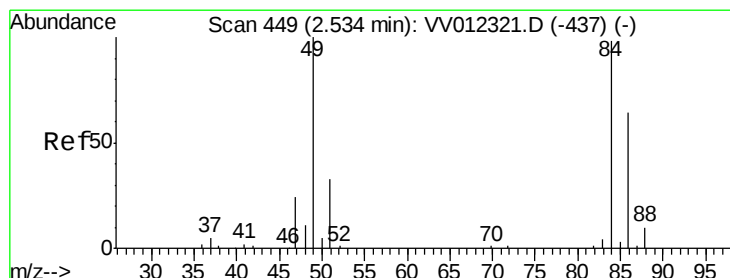
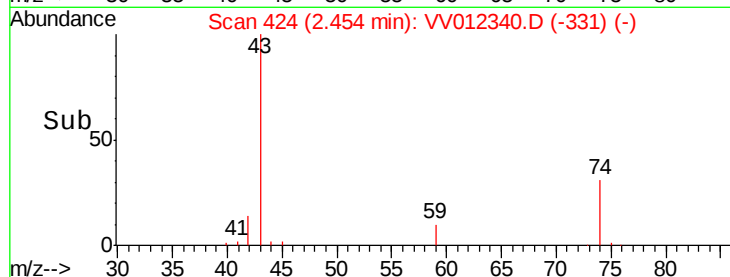
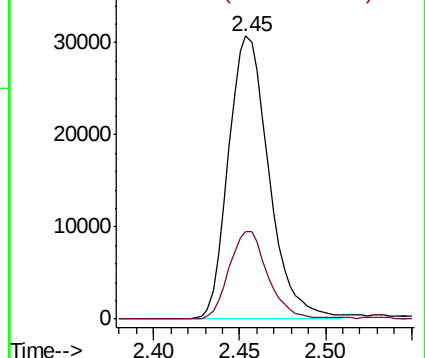
43 100

74 29.4 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 51.788 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

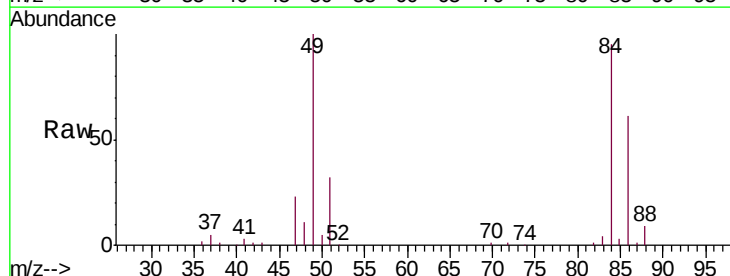
Tgt Ion: 84 Resp: 65782

Ion Ratio Lower Upper

84 100

86 64.5 44.7 83.1

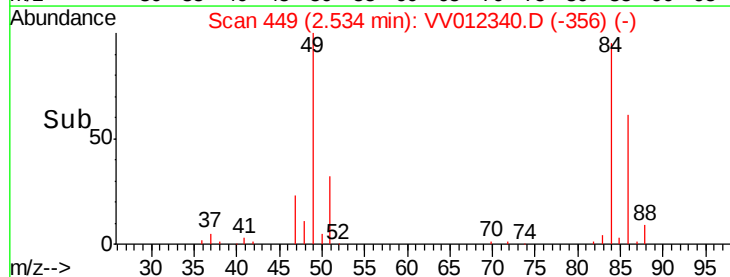
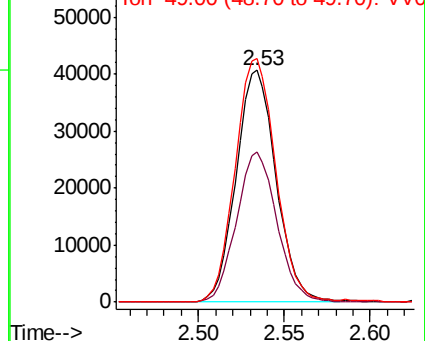
49 105.0 72.1 133.9

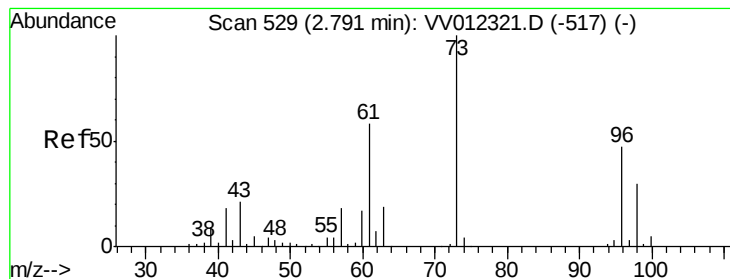


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0





#17

trans-1,2-Dichloroethene

Concen: 50.377 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

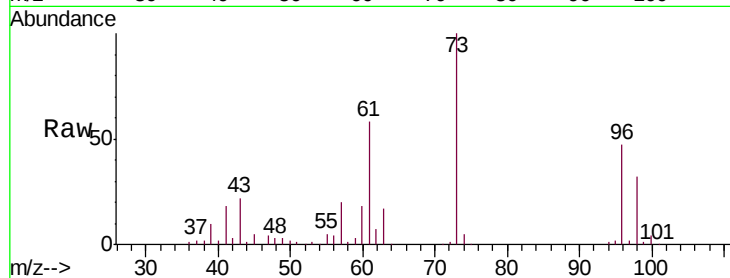
Tgt Ion: 96 Resp: 63557

Ion Ratio Lower Upper

96 100

61 124.7 87.0 161.6

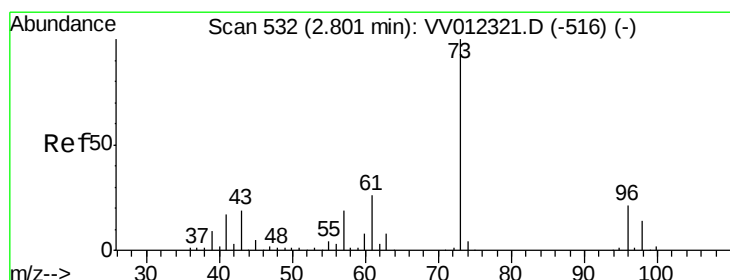
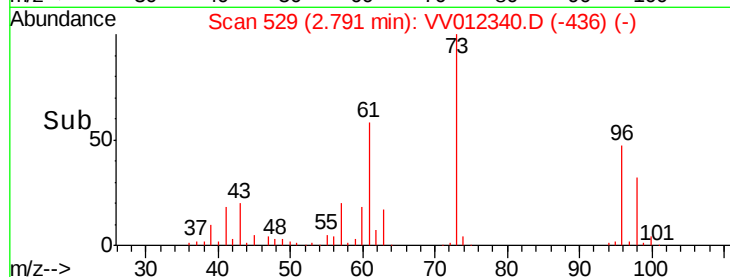
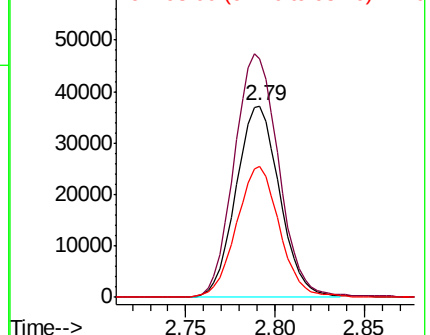
98 68.2 43.8 81.4



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 49.941 ug/L

RT: 2.80 min Scan# 532

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

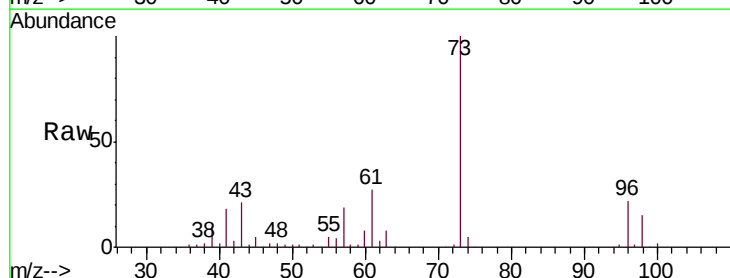
Tgt Ion: 73 Resp: 208735

Ion Ratio Lower Upper

73 100

43 21.0 16.6 25.0

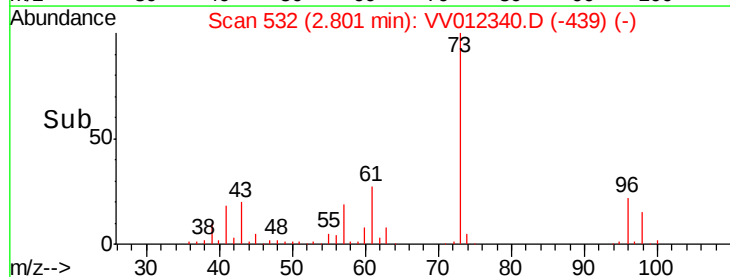
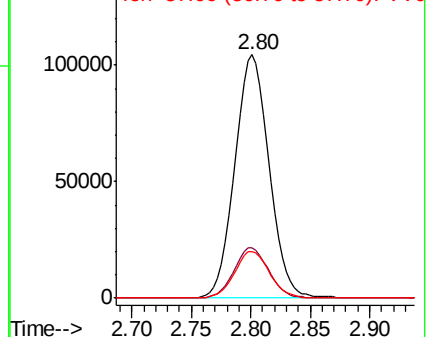
57 19.6 15.0 22.6

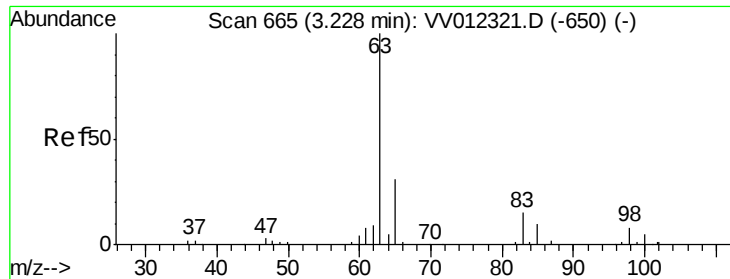


Abundance Ion 73.00 (72.70 to 73.70): VV0

Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 53.102 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

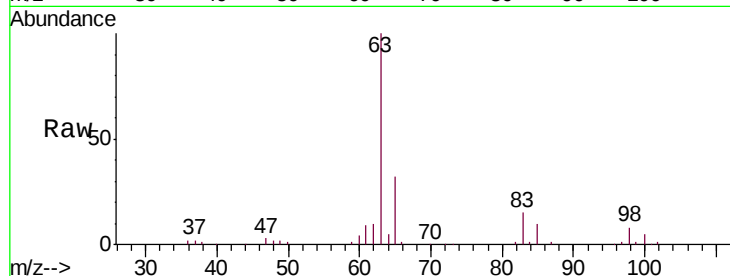
Tgt Ion: 63 Resp: 112496

Ion Ratio Lower Upper

63 100

65 31.7 21.7 40.3

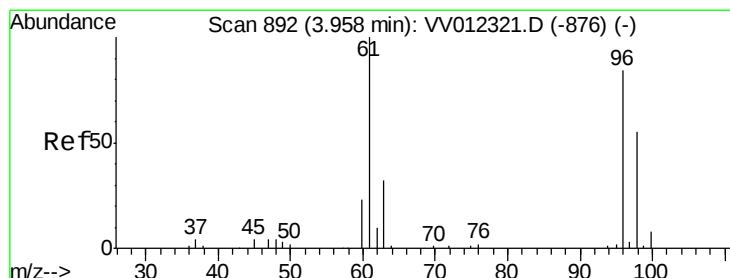
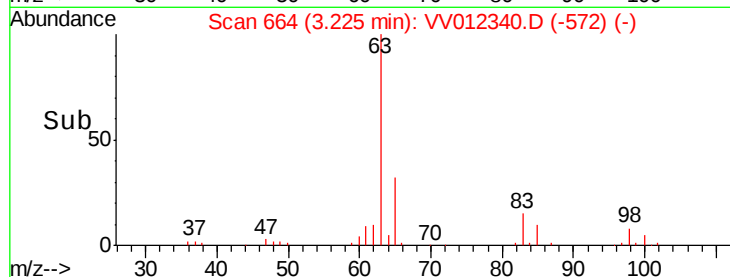
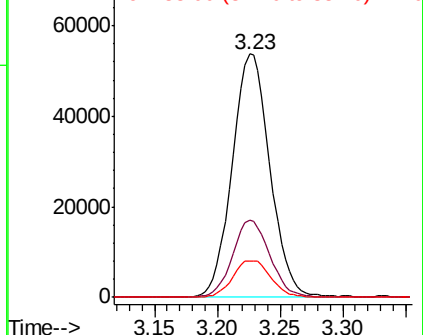
83 15.0 10.5 19.5



Abundance Ion 63.00 (62.70 to 63.70): VV012321.D (-650) (-)

Ion 65.00 (64.70 to 65.70): VV012321.D (-650) (-)

Ion 83.00 (82.70 to 83.70): VV012321.D (-650) (-)



#20

cis-1,2-Dichloroethene

Concen: 52.521 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

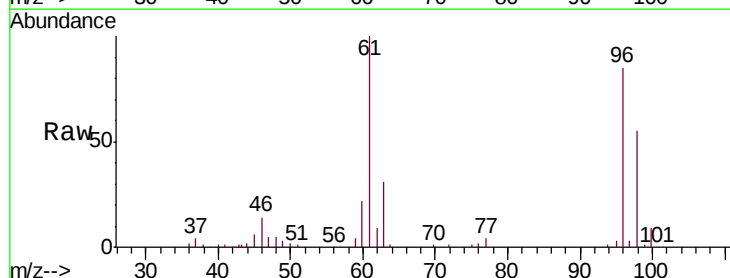
Tgt Ion: 96 Resp: 73736

Ion Ratio Lower Upper

96 100

61 117.9 84.4 156.7

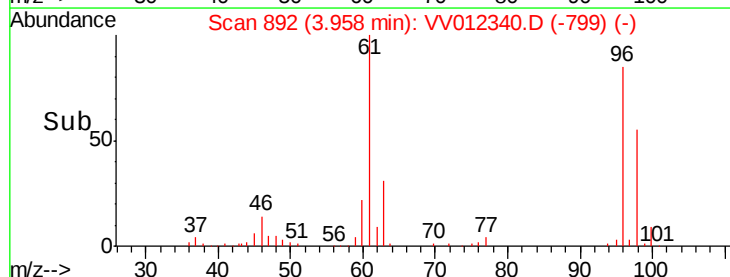
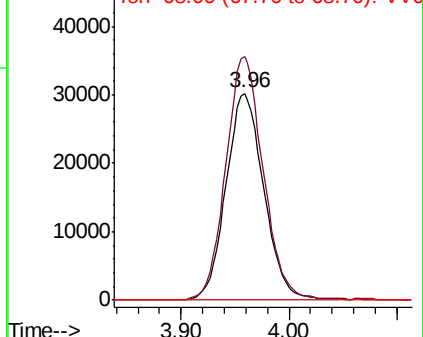
68 0.0 0.0 0.0

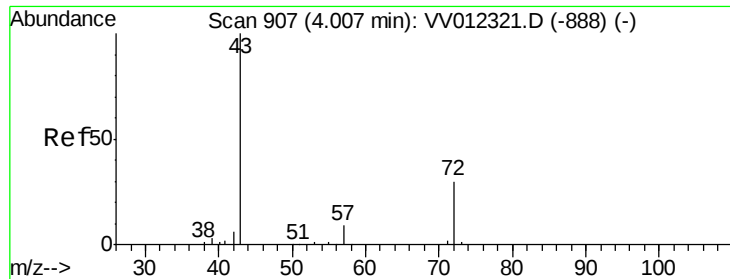


Abundance Ion 96.00 (95.70 to 96.70): VV012321.D (-876) (-)

Ion 61.00 (60.70 to 61.70): VV012321.D (-876) (-)

Ion 68.00 (67.70 to 68.70): VV012321.D (-876) (-)





#22

2-Butanone

Concen: 91.366 ug/L

RT: 4.01 min Scan# 907

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

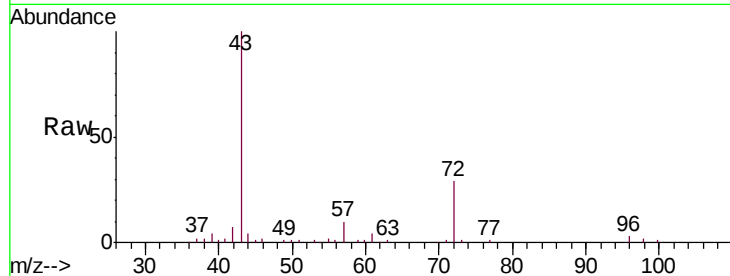
VSTD05078

Tgt Ion: 43 Resp: 75256

Ion Ratio Lower Upper

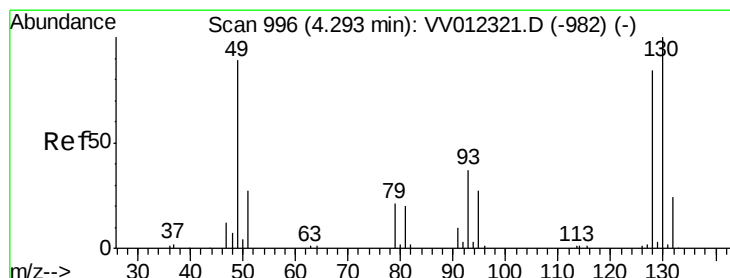
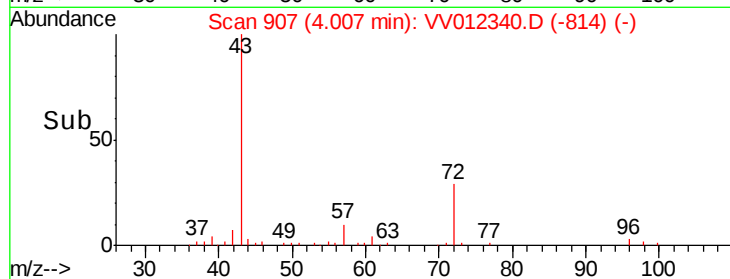
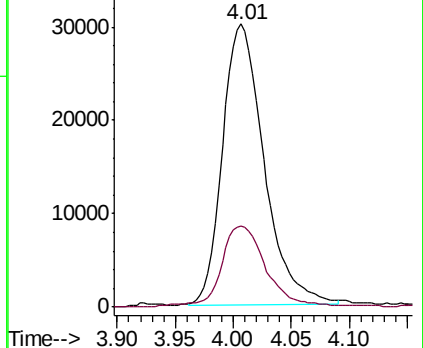
43 100

72 29.7 15.0 45.1



Abundance Ion 43.00 (42.70 to 43.70): VV012321.D (-888) (-)

Ion 72.00 (71.70 to 72.70): VV012321.D (-888) (-)



#23

Bromochloromethane

Concen: 54.966 ug/L

RT: 4.29 min Scan# 996

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Tgt Ion: 128 Resp: 42698

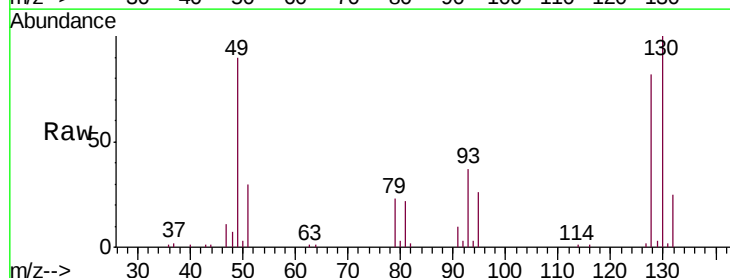
Ion Ratio Lower Upper

128 100

49 110.1 78.8 146.4

130 122.1 93.0 172.6

51 36.3 28.5 42.7

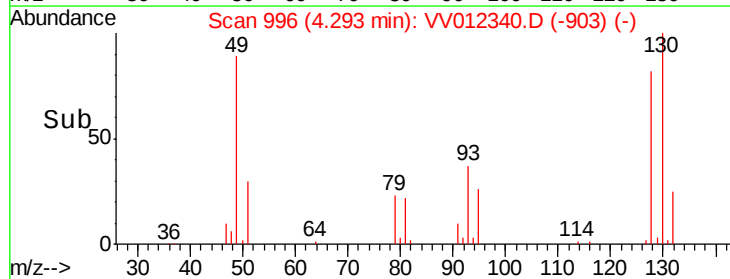
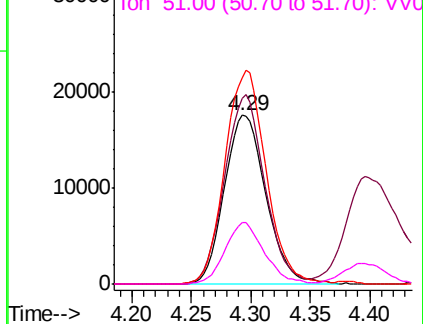


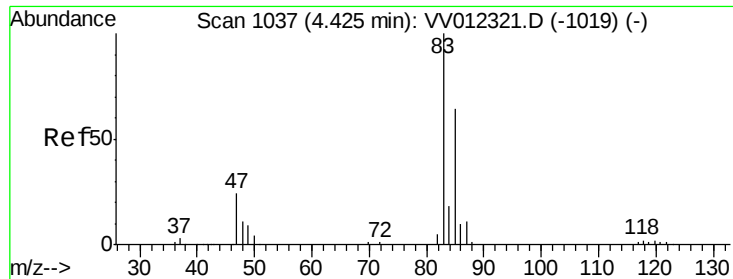
Abundance Ion 128.00 (127.70 to 128.70): VV012321.D (-982) (-)

Ion 49.00 (48.70 to 49.70): VV012321.D (-982) (-)

Ion 130.00 (129.70 to 130.70): VV012321.D (-982) (-)

Ion 51.00 (50.70 to 51.70): VV012321.D (-982) (-)

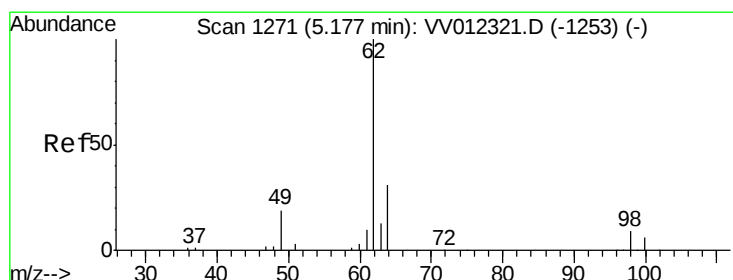
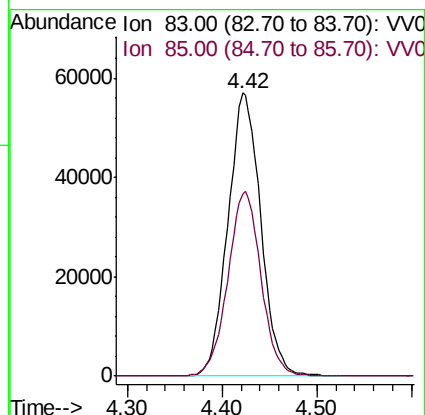
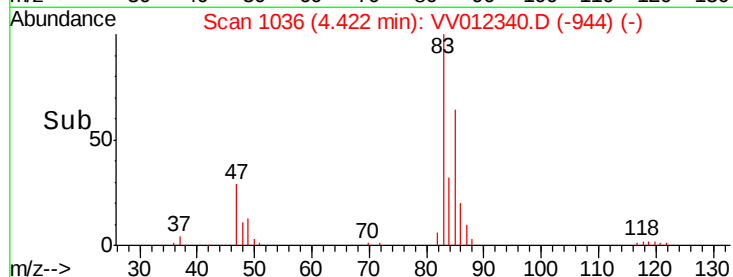
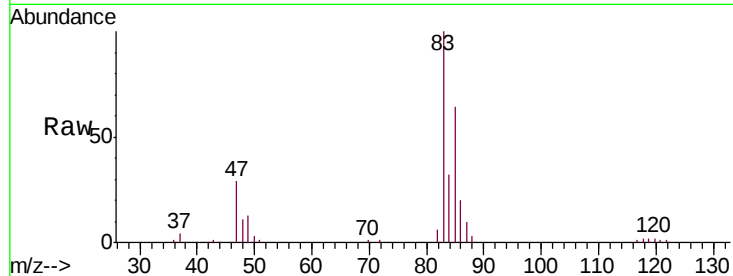




#25
Chloroform
Concen: 52.575 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV012340.D
Acq: 22 Aug 2019 11:00

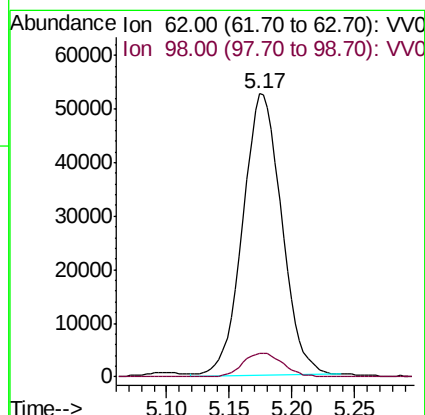
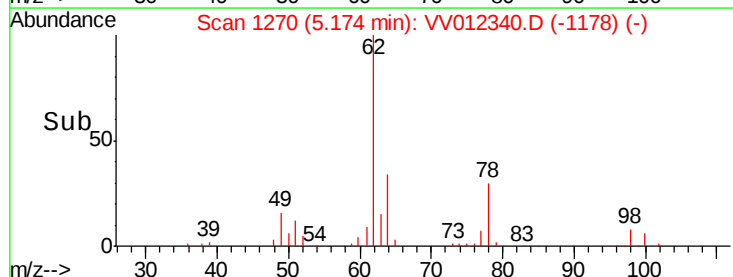
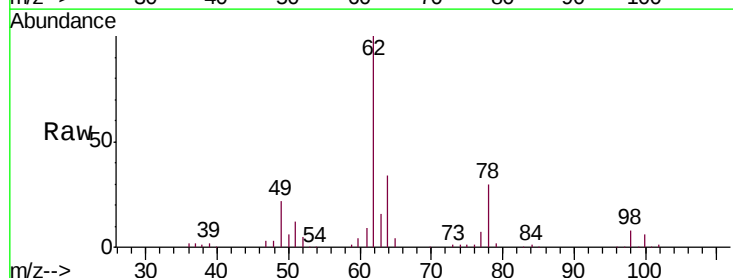
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

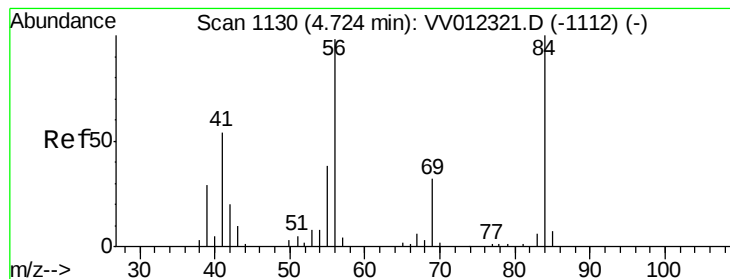
Tgt Ion: 83 Resp: 137503
Ion Ratio Lower Upper
83 100
85 64.2 44.5 82.7



#27
1,2-Dichloroethane
Concen: 53.515 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV012340.D
Acq: 22 Aug 2019 11:00

Tgt Ion: 62 Resp: 113766
Ion Ratio Lower Upper
62 100
98 8.3 6.9 10.3





#29

Cyclohexane

Concen: 48.993 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

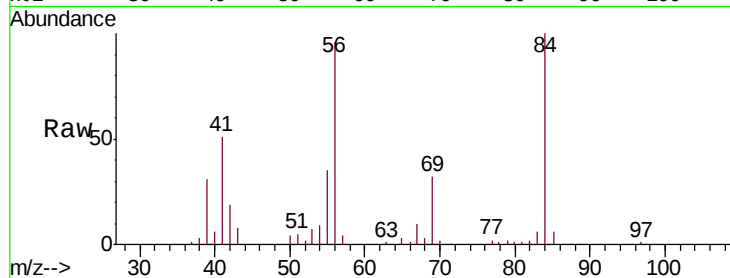
Tgt Ion: 56 Resp: 91650

Ion Ratio Lower Upper

56 100

69 34.6 26.8 40.2

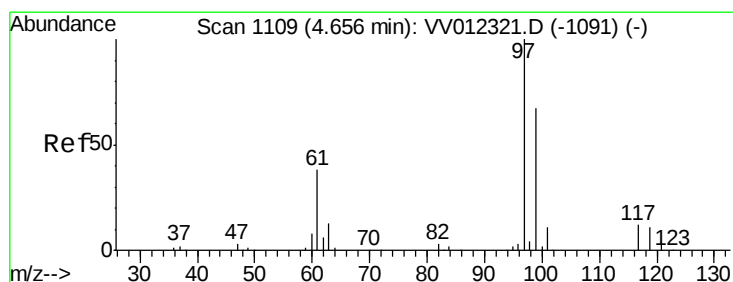
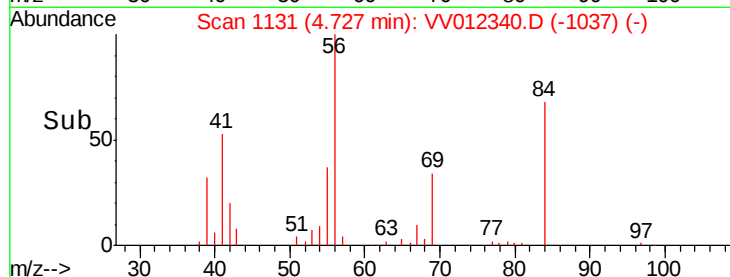
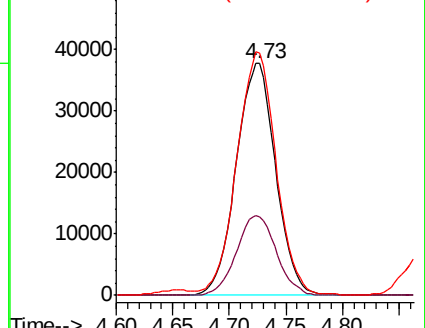
84 104.5 81.7 122.5



Abundance Ion 56.00 (55.70 to 56.70): VV012321.D (-1112) (-)

Ion 69.00 (68.70 to 69.70): VV012321.D (-1112) (-)

Ion 84.00 (83.70 to 84.70): VV012321.D (-1112) (-)



#30

1,1,1-Trichloroethane

Concen: 50.463 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

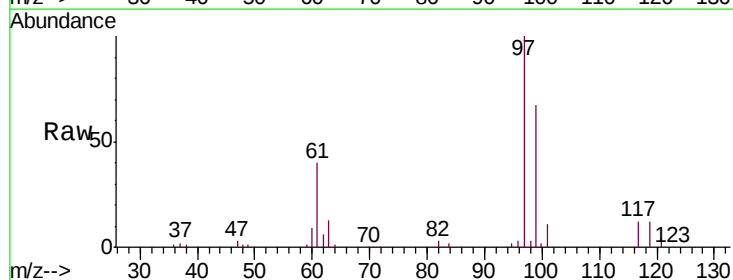
Tgt Ion: 97 Resp: 133475

Ion Ratio Lower Upper

97 100

99 64.4 50.8 76.2

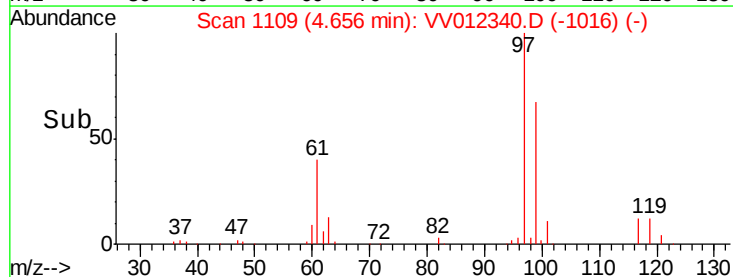
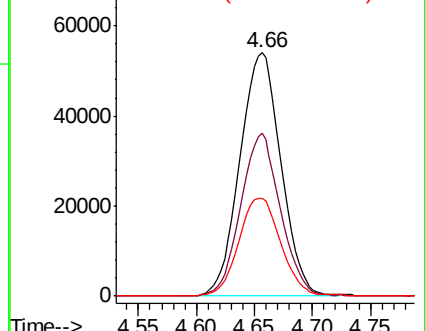
61 41.1 31.0 46.6

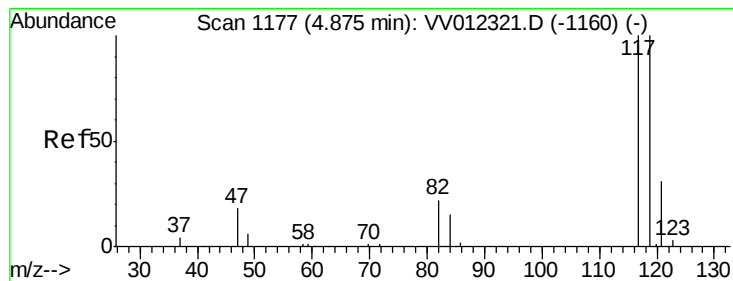


Abundance Ion 97.00 (96.70 to 97.70): VV012321.D (-1091) (-)

Ion 99.00 (98.70 to 99.70): VV012321.D (-1091) (-)

Ion 61.05 (60.75 to 61.75): VV012321.D (-1091) (-)





#31

Carbon tetrachloride

Concen: 51.085 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

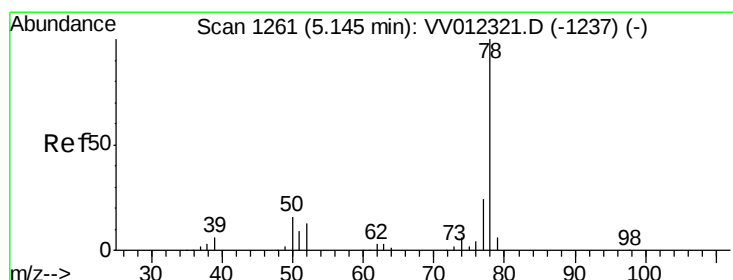
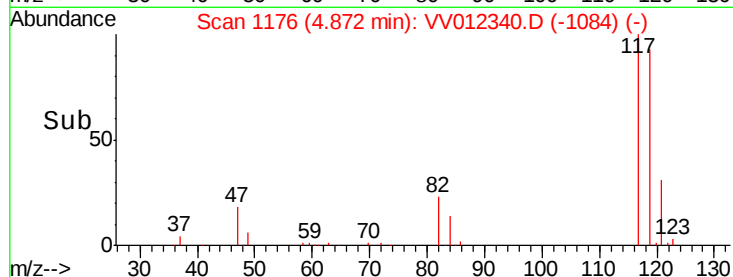
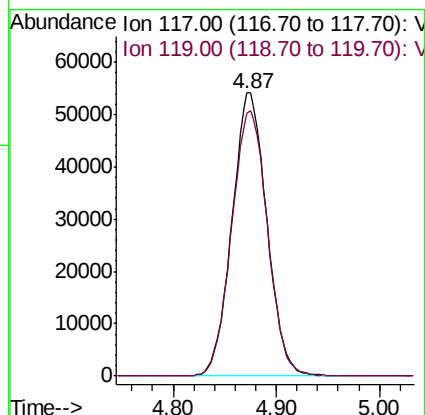
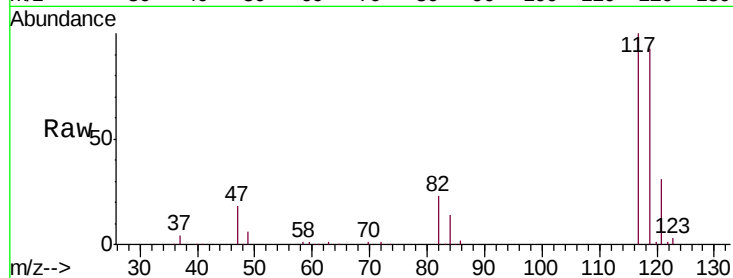
VSTD05078

Tgt Ion:117 Resp: 126933

Ion Ratio Lower Upper

117 100

119 96.5 77.7 116.5



#33

Benzene

Concen: 50.644 ug/L

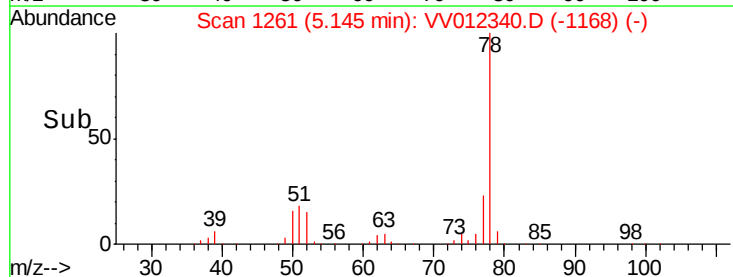
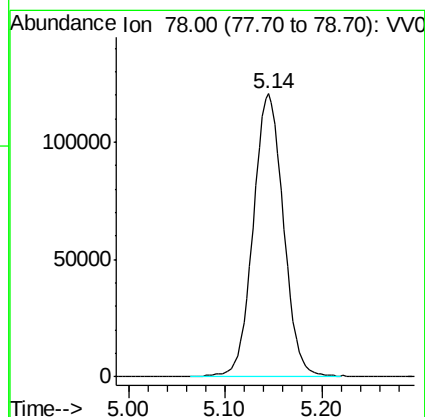
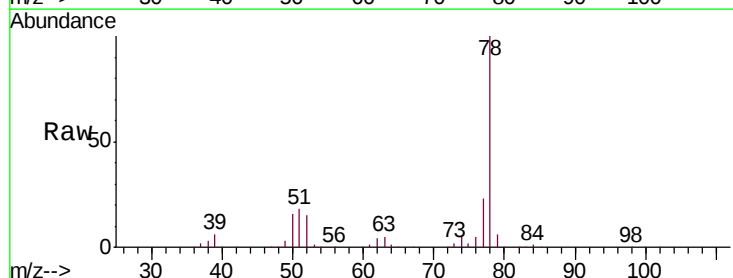
RT: 5.14 min Scan# 1261

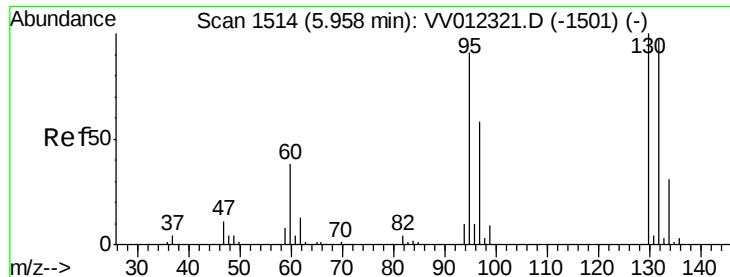
Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Tgt Ion: 78 Resp: 262301





#34

Trichloroethene

Concen: 51.108 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

Tgt Ion: 95 Resp: 77530

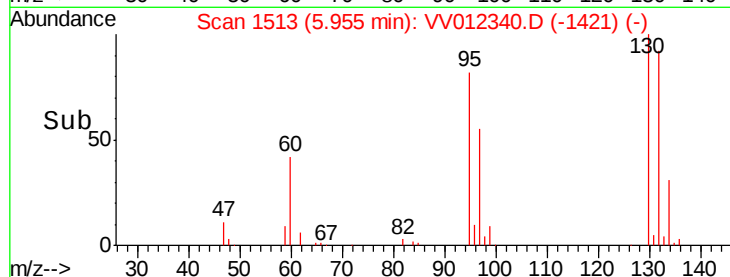
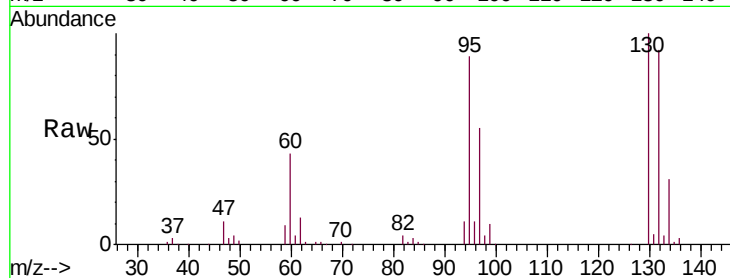
Ion Ratio Lower Upper

95 100

97 62.2 43.6 81.0

132 104.1 73.9 137.3

130 112.7 76.6 142.2

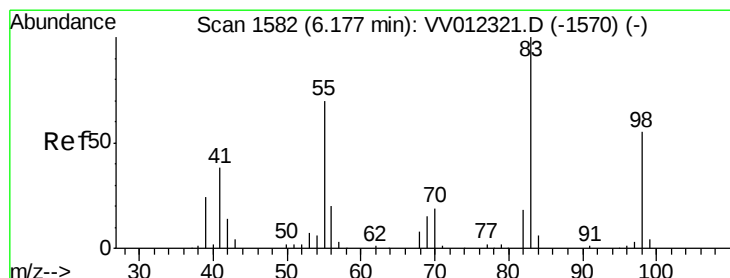
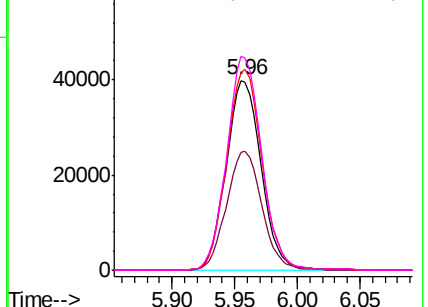


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#35

Methylcyclohexane

Concen: 51.006 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

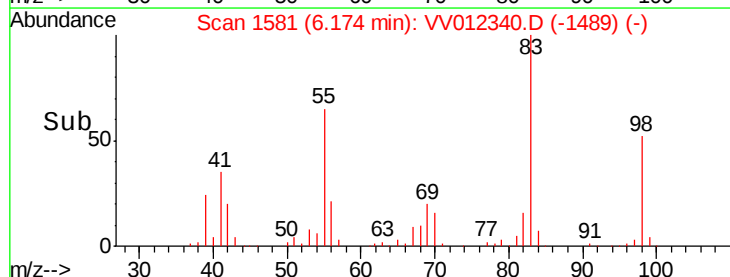
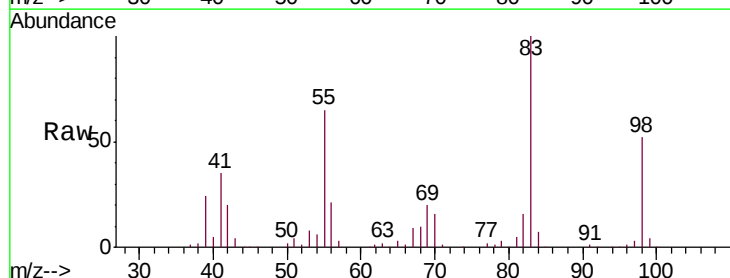
Tgt Ion: 83 Resp: 116995

Ion Ratio Lower Upper

83 100

55 66.9 56.2 84.4

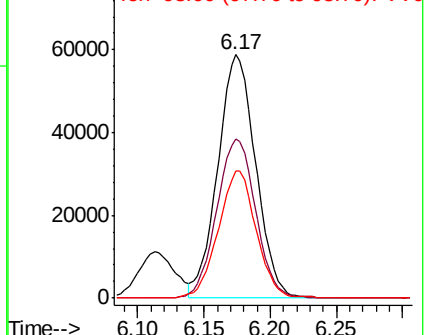
98 52.3 42.2 63.4

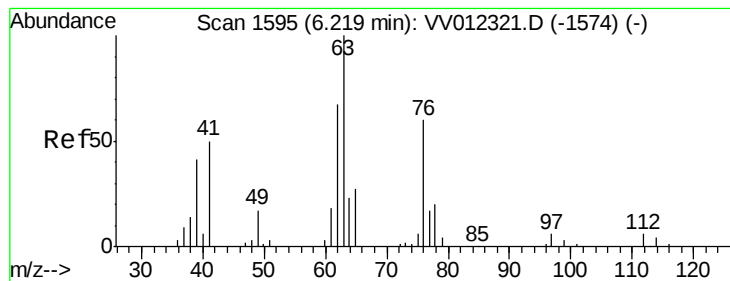


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 49.859 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

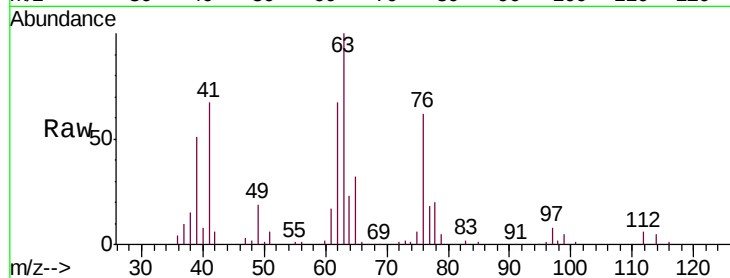
VSTD05078

Tgt Ion: 63 Resp: 58541

Ion Ratio Lower Upper

63 100

112 6.5 4.7 7.1



Abundance Ion 63.00 (62.70 to 63.70): VV012321.D (-1574) (-)

Ion 112.00 (111.70 to 112.70): VV012321.D (-1574) (-)

6.22

30000

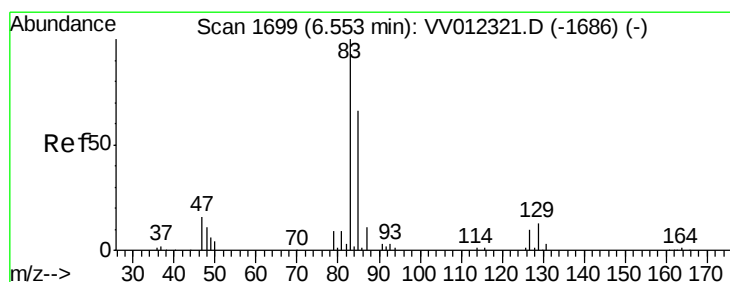
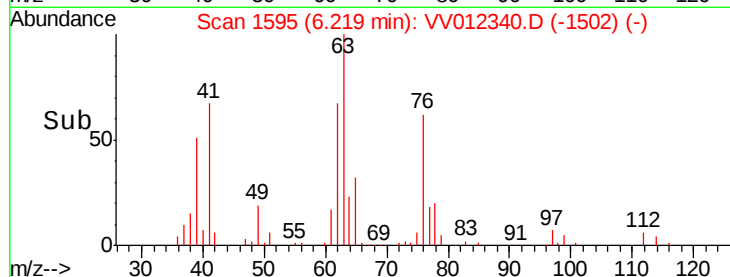
20000

10000

0

6.15 6.20 6.25

Time-->



#38

Bromodichloromethane

Concen: 52.058 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

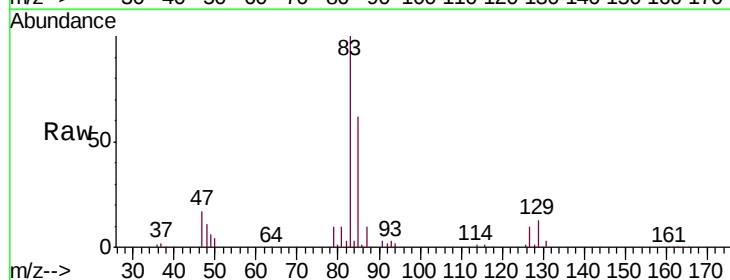
Tgt Ion: 83 Resp: 106984

Ion Ratio Lower Upper

83 100

85 61.9 45.7 84.9

127 9.7 7.8 11.8



Abundance Ion 83.00 (82.70 to 83.70): VV012321.D (-1686) (-)

Ion 85.00 (84.70 to 85.70): VV012321.D (-1686) (-)

Ion 127.00 (126.70 to 127.70): VV012321.D (-1686) (-)

6.55

80000

60000

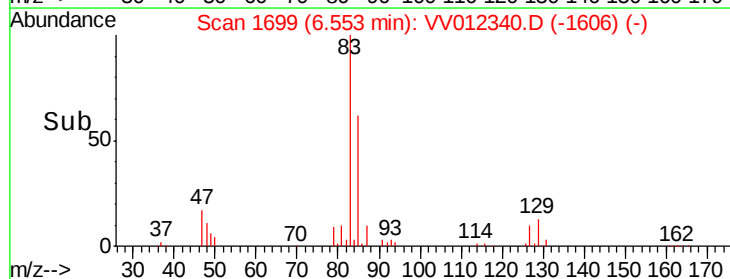
40000

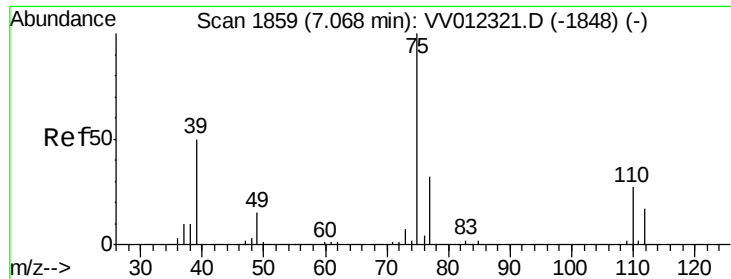
20000

0

6.50 6.55 6.60 6.65

Time-->

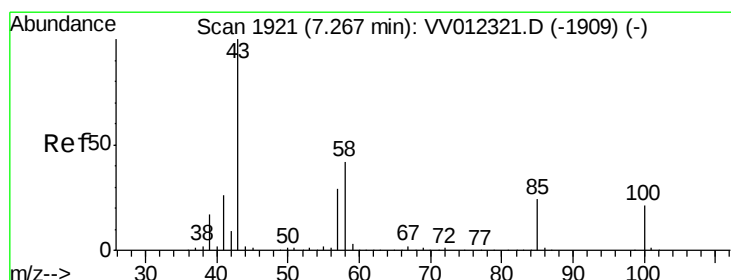
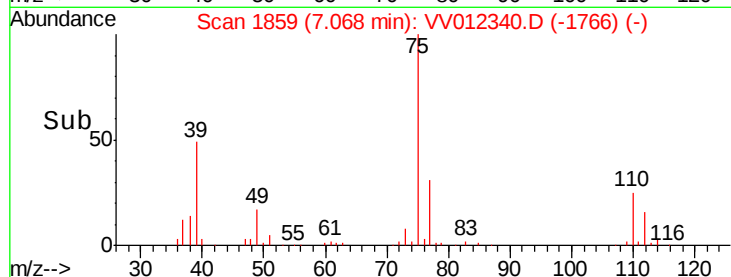
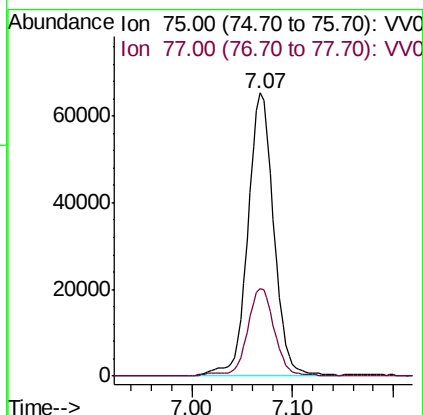
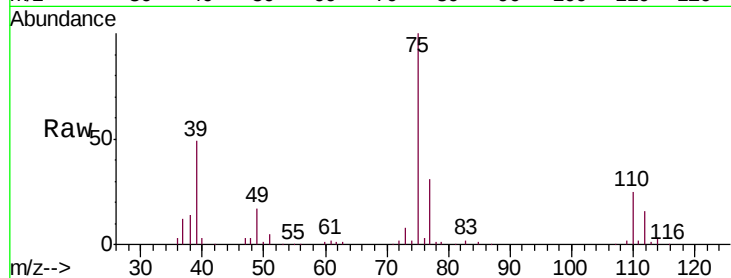




#39
 cis-1,3-Dichloropropene
 Concen: 53.093 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV012340.D
 Acq: 22 Aug 2019 11:00

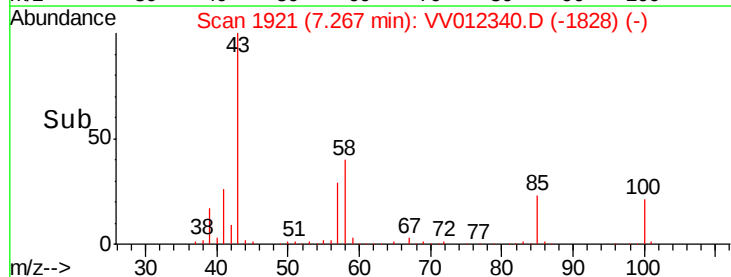
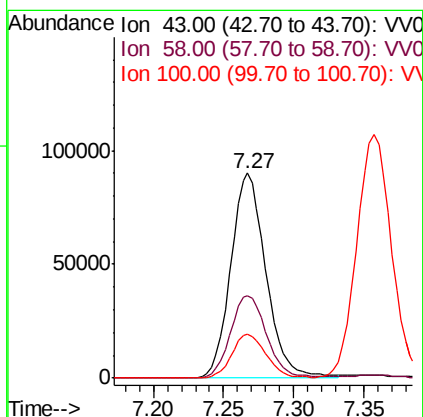
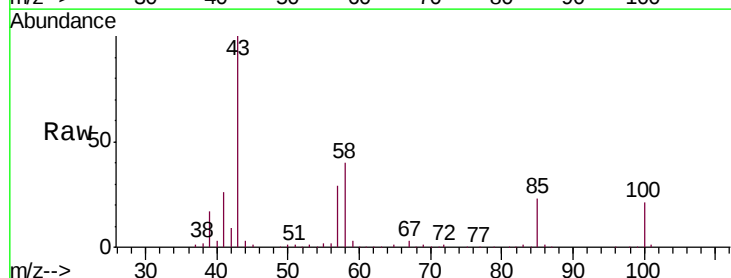
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

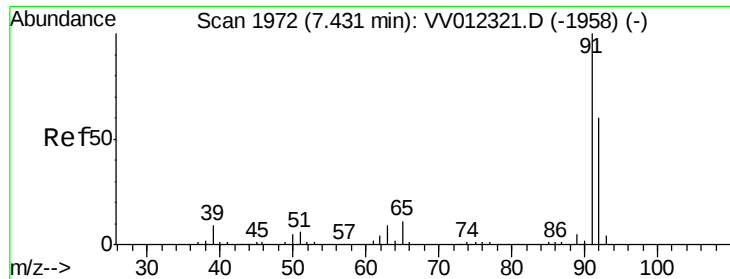
Tgt Ion: 75 Resp: 115724
 Ion Ratio Lower Upper
 75 100
 77 30.8 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 99.773 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VV012340.D
 Acq: 22 Aug 2019 11:00

Tgt Ion: 43 Resp: 157510
 Ion Ratio Lower Upper
 43 100
 58 41.4 33.7 50.5
 100 21.2 17.8 26.6





#42

Toluene

Concen: 52.980 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

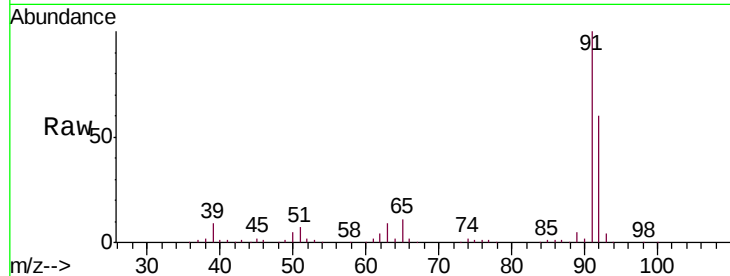
VSTD05078

Tgt Ion: 91 Resp: 309524

Ion Ratio Lower Upper

91 100

92 59.5 42.4 78.6



Abundance Ion 91.00 (90.70 to 91.70): VV012321.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV012321.D (-1958) (-)

7.43

200000

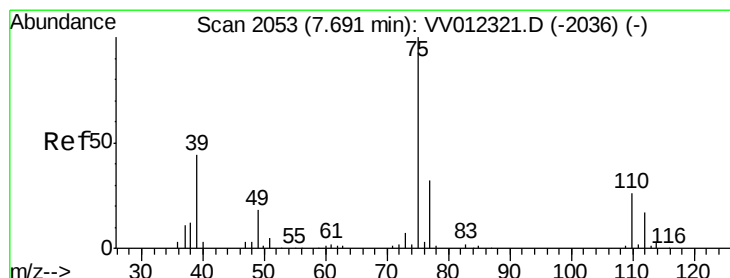
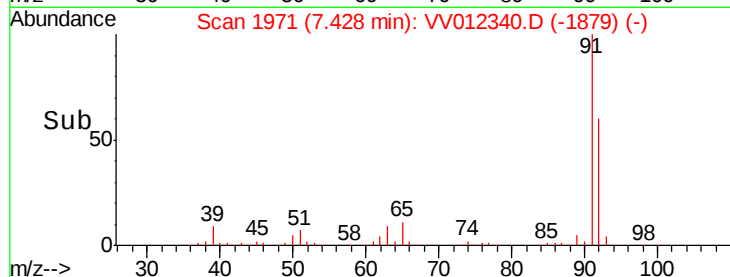
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 51.515 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012340.D

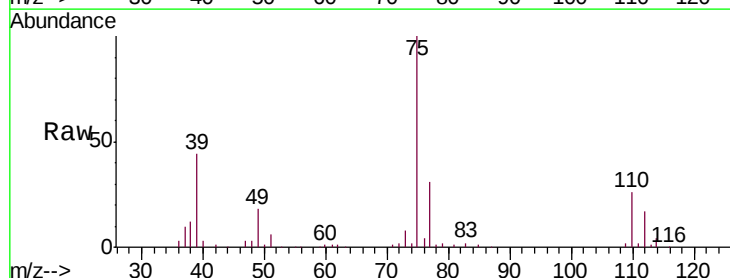
Acq: 22 Aug 2019 11:00

Tgt Ion: 75 Resp: 107014

Ion Ratio Lower Upper

75 100

77 31.4 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV012321.D (-2036) (-)

Ion 77.00 (76.70 to 77.70): VV012321.D (-2036) (-)

7.69

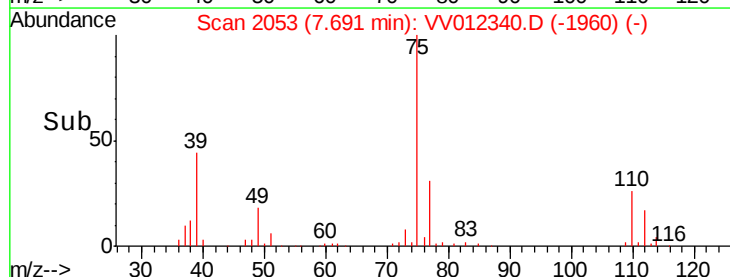
60000

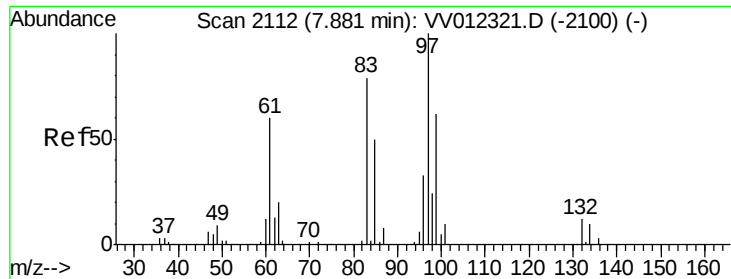
40000

20000

0

Time-->

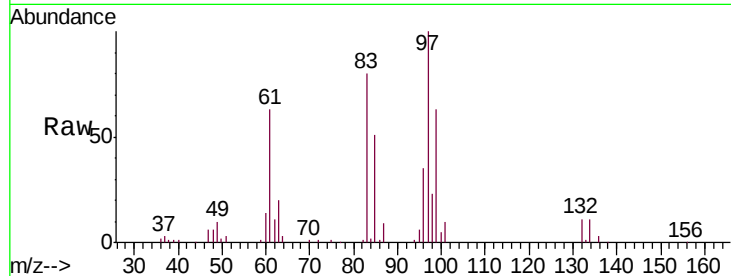




#45
 1,1,2-Trichloroethane
 Concen: 53.009 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV012340.D
 Acq: 22 Aug 2019 11:00

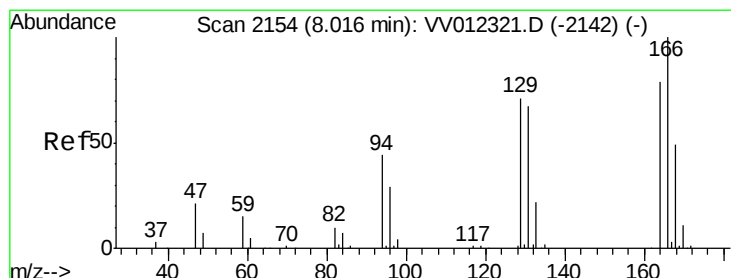
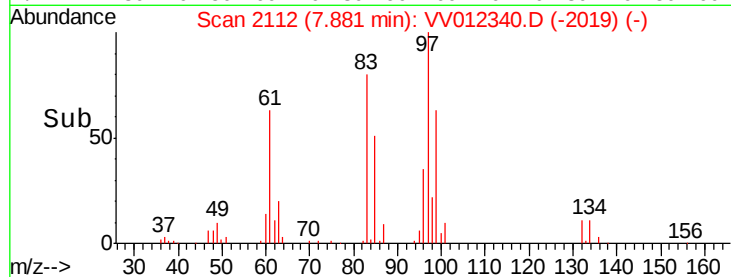
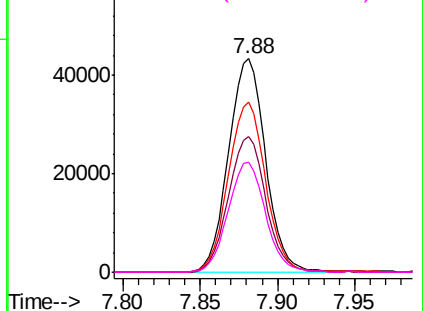
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

Tgt Ion:	97	Resp:	71951
Ion	Ratio	Lower	Upper
97	100		
99	63.4	45.5	84.5
83	79.5	58.5	108.7
85	51.3	36.8	68.4



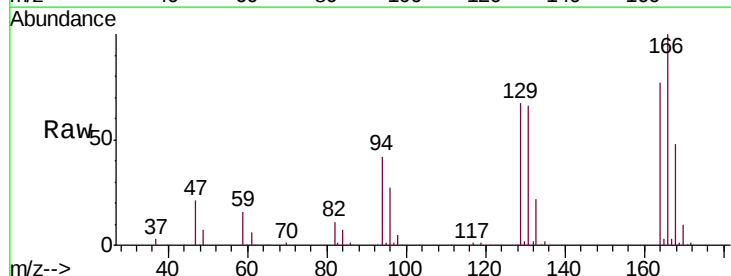
Abundance

Ion 97.00 (96.70 to 97.70): VV012340.D (-2019) (-)



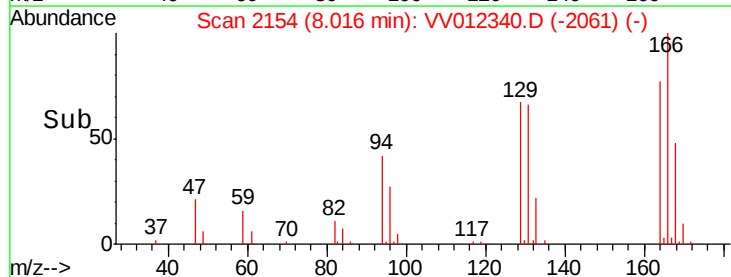
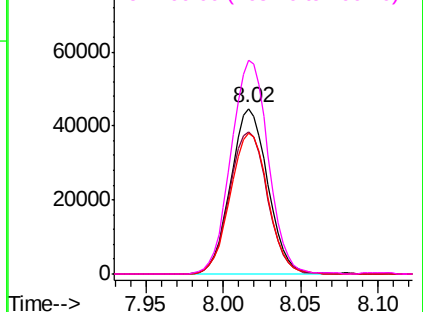
#46
 Tetrachloroethene
 Concen: 51.371 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV012340.D
 Acq: 22 Aug 2019 11:00

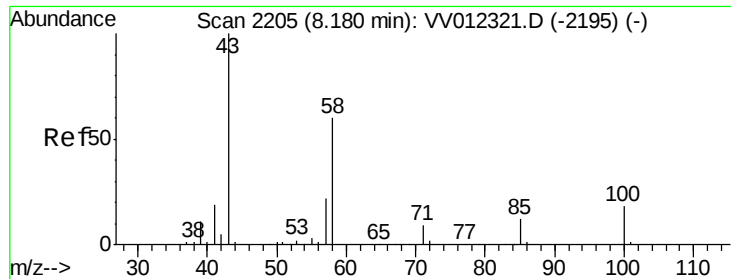
Tgt Ion:	164	Resp:	74571
Ion	Ratio	Lower	Upper
164	100		
129	86.2	61.5	114.3
131	85.3	56.6	105.0
166	129.2	88.2	163.8



Abundance

Ion 164.00 (163.70 to 164.70): VV012340.D (-2061) (-)

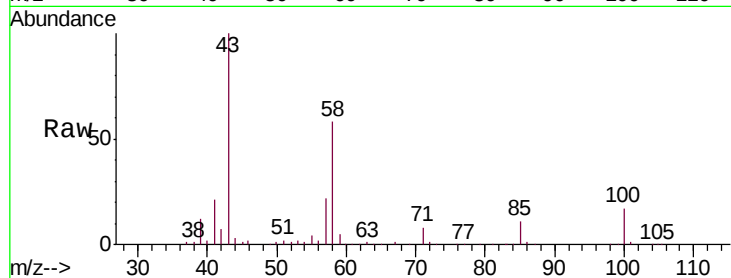




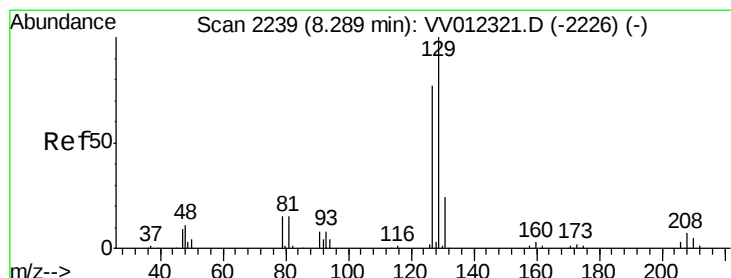
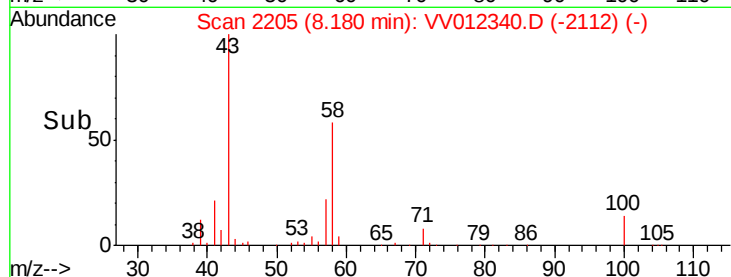
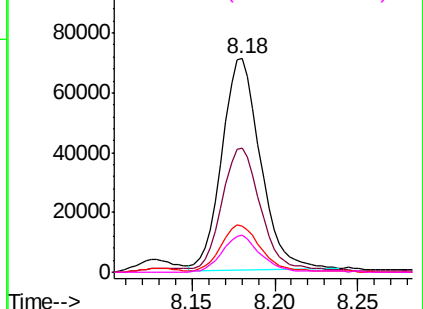
#48
2-Hexanone
Concen: 96.070 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV012340.D
Acq: 22 Aug 2019 11:00

Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

Tgt Ion: 43 Resp: 114499
Ion Ratio Lower Upper
43 100
58 60.0 45.7 68.5
57 22.7 16.8 25.2
100 17.3 13.7 20.5

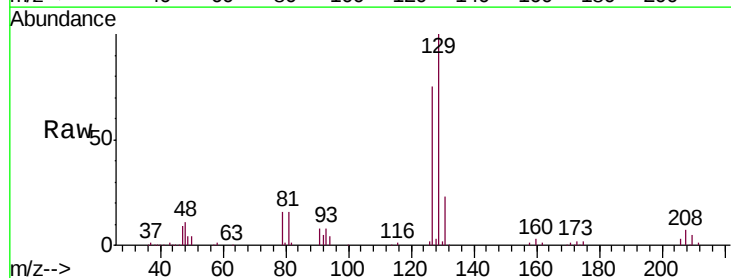


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

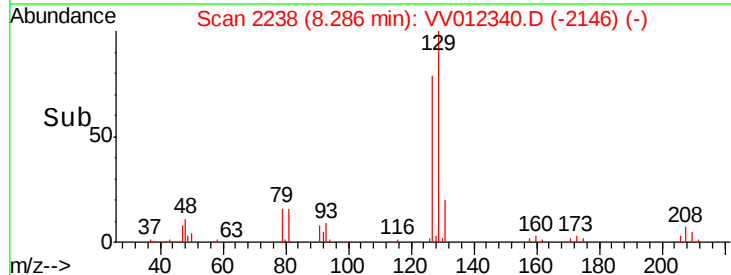
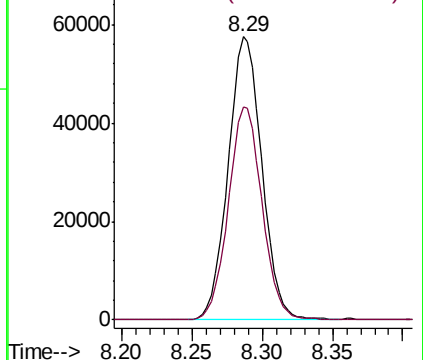


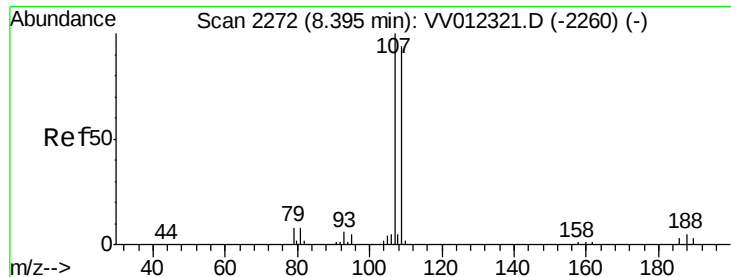
#49
Dibromochloromethane
Concen: 52.426 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV012340.D
Acq: 22 Aug 2019 11:00

Tgt Ion: 129 Resp: 96228
Ion Ratio Lower Upper
129 100
127 75.3 53.5 99.5



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

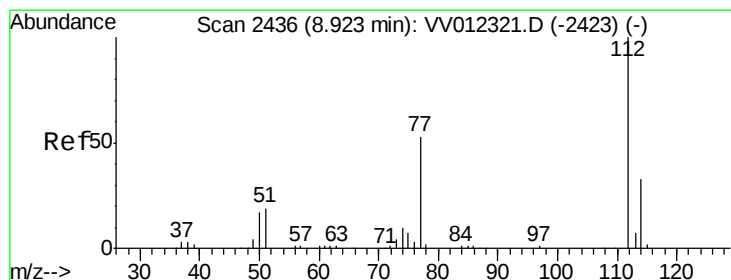
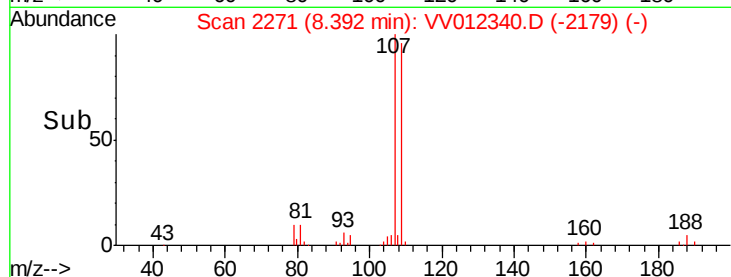
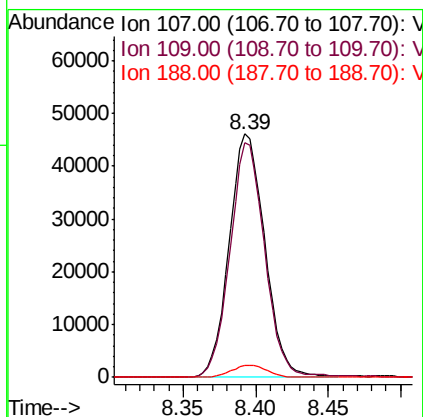
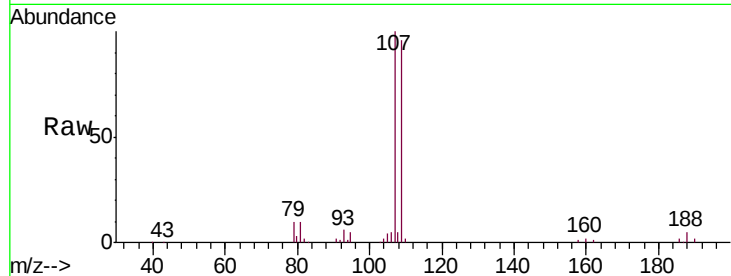




#50
1,2-Dibromoethane
Concen: 52.275 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VV012340.D
Acq: 22 Aug 2019 11:00

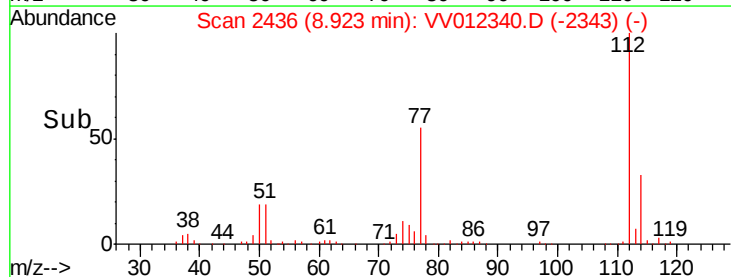
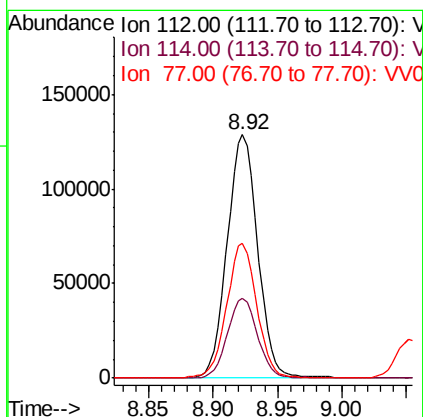
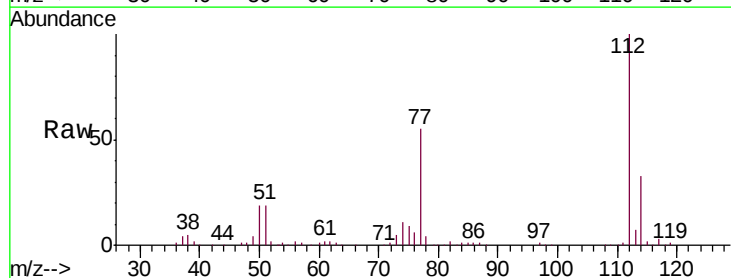
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

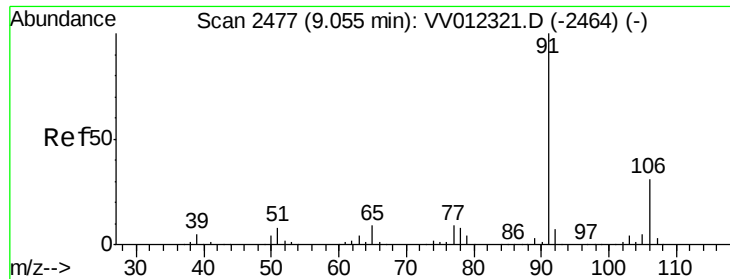
Tgt Ion:107 Resp: 78746
Ion Ratio Lower Upper
107 100
109 96.3 65.7 121.9
188 5.1 3.9 5.9



#51
Chlorobenzene
Concen: 52.456 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012340.D
Acq: 22 Aug 2019 11:00

Tgt Ion:112 Resp: 212153
Ion Ratio Lower Upper
112 100
114 32.9 23.4 43.6
77 55.4 43.8 65.6





#52

Ethylbenzene

Concen: 52.957 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

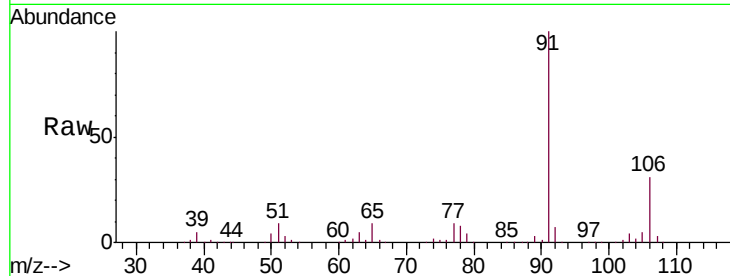
VSTD05078

Tgt Ion: 91 Resp: 357580

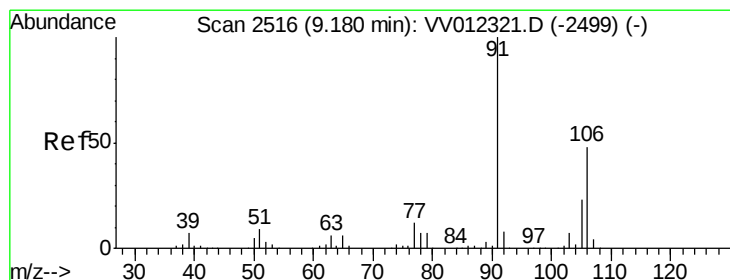
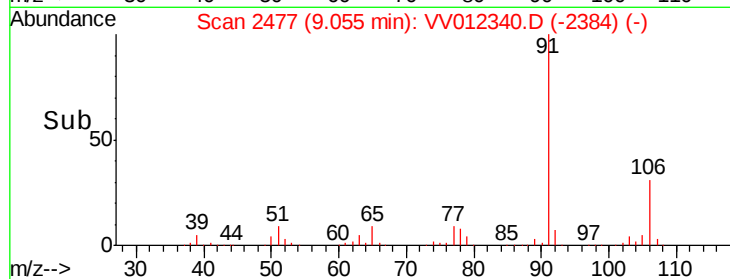
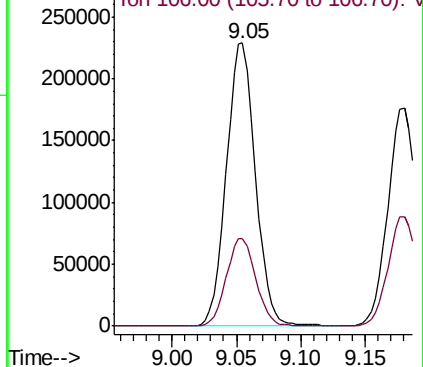
Ion Ratio Lower Upper

91 100

106 31.1 22.0 41.0



Abundance Ion 91.00 (90.70 to 91.70): VV012340.D (-2384) (-)



#53

m,p-Xylene

Concen: 53.915 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012340.D

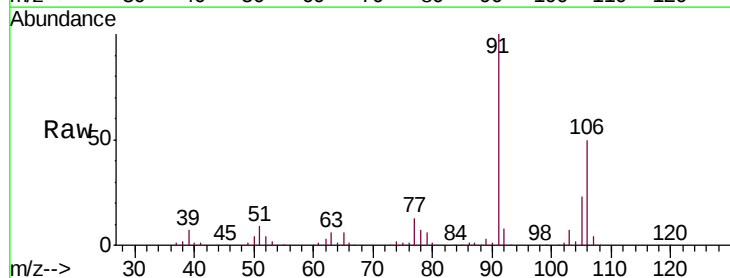
Acq: 22 Aug 2019 11:00

Tgt Ion: 106 Resp: 141287

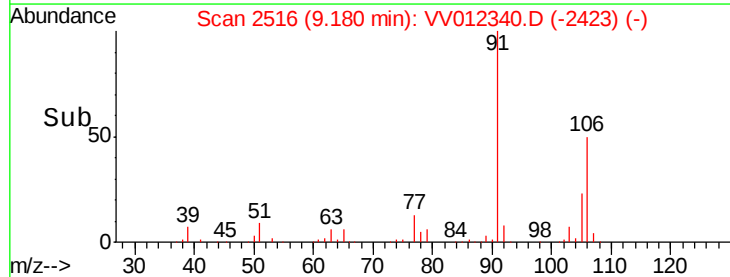
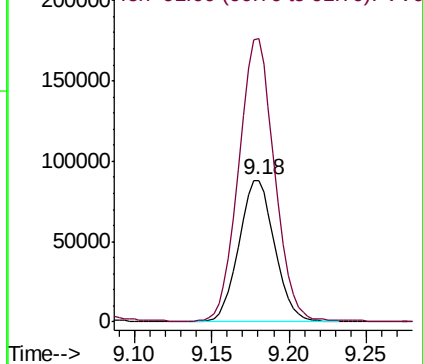
Ion Ratio Lower Upper

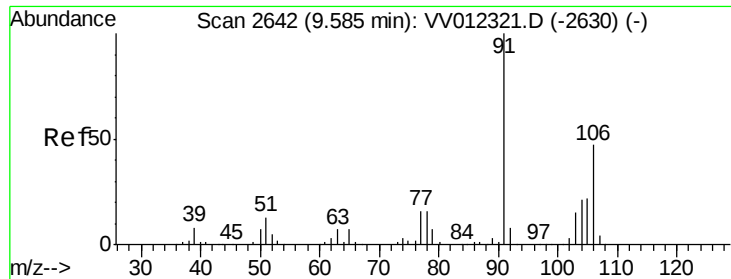
106 100

91 199.8 143.5 266.5



Abundance Ion 106.00 (105.70 to 106.70): VV012340.D (-2423) (-)

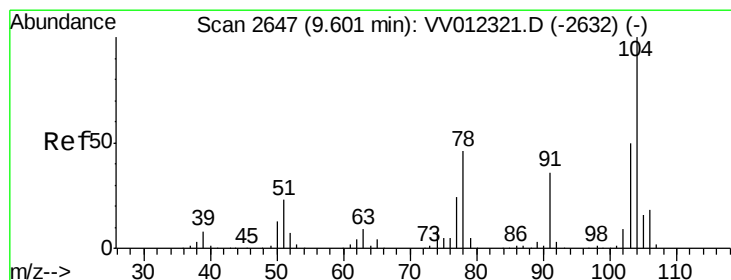
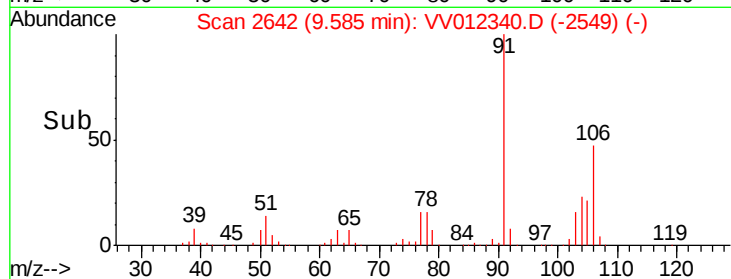
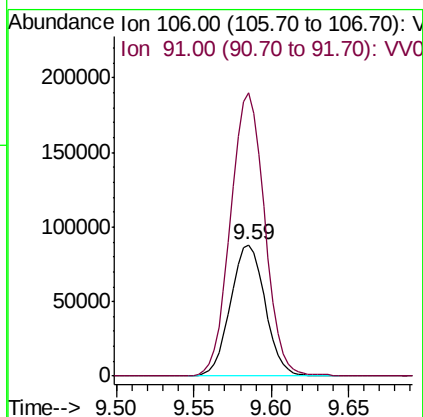
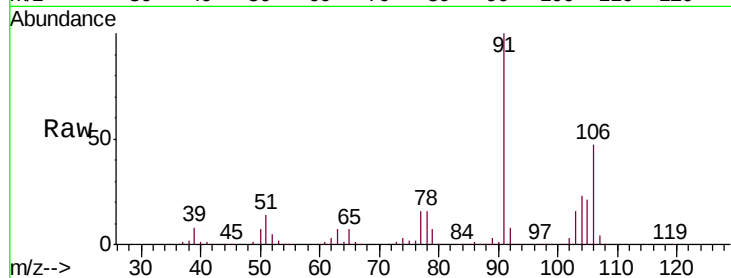




#54
o-xylene
Concen: 53.235 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV012340.D
Acq: 22 Aug 2019 11:00

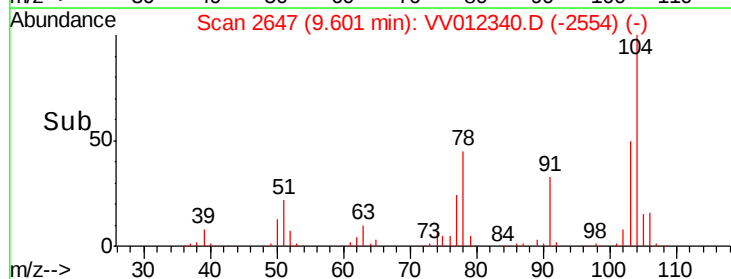
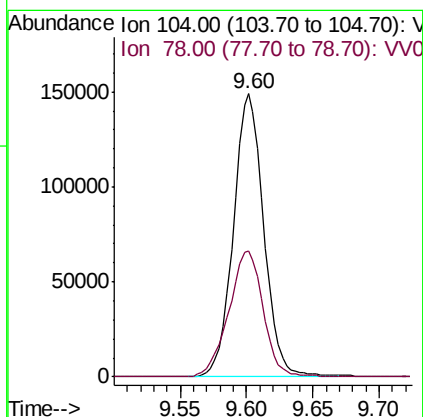
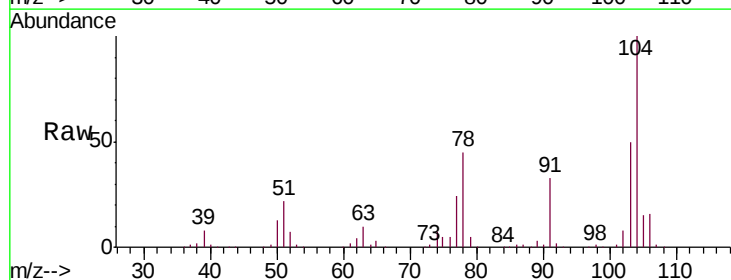
Instrument :
MSVOA_V
ClientSampleId :
VSTD05078

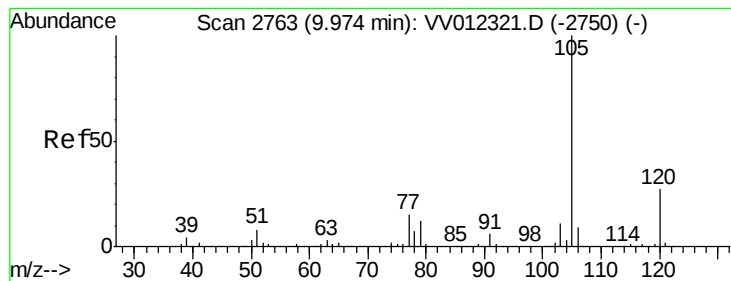
Tgt Ion:106 Resp: 136930
Ion Ratio Lower Upper
106 100
91 214.9 149.2 277.0



#55
Styrene
Concen: 54.967 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV012340.D
Acq: 22 Aug 2019 11:00

Tgt Ion:104 Resp: 236756
Ion Ratio Lower Upper
104 100
78 44.7 31.8 59.0





#56

Isopropylbenzene

Concen: 53.576 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

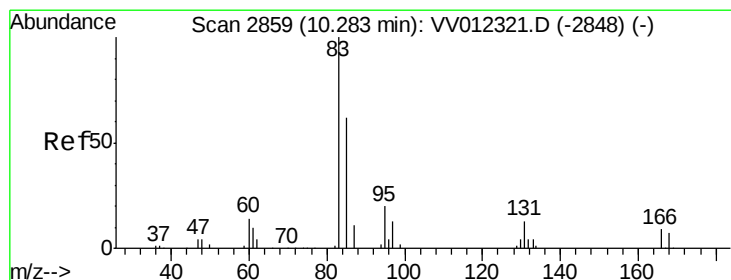
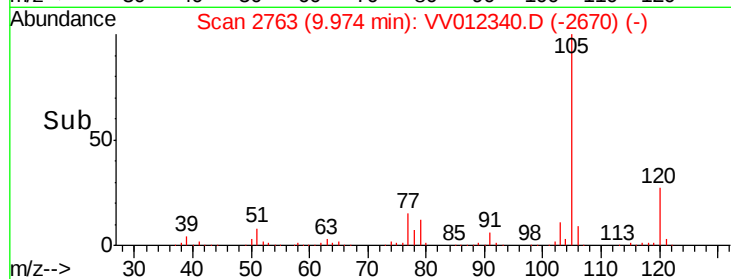
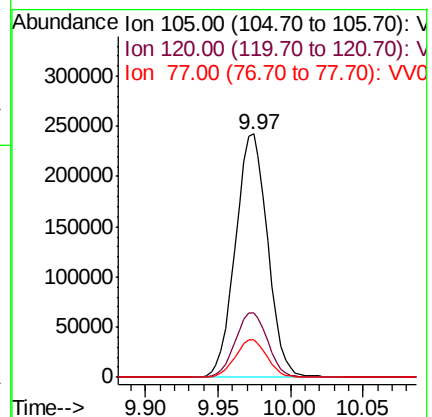
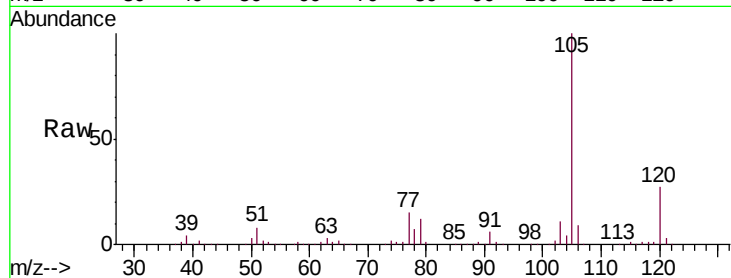
Tgt Ion: 105 Resp: 373349

Ion Ratio Lower Upper

105 100

120 26.8 21.2 31.8

77 15.3 12.2 18.2



#58

1,1,2,2-Tetrachloroethane

Concen: 51.878 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

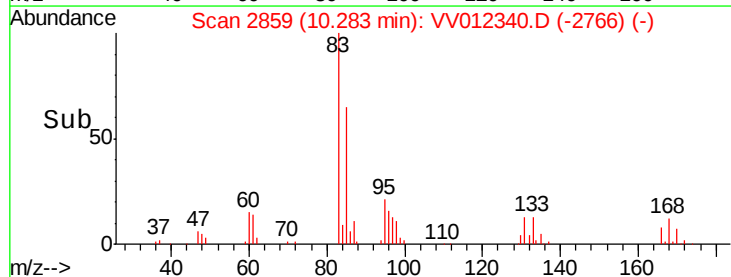
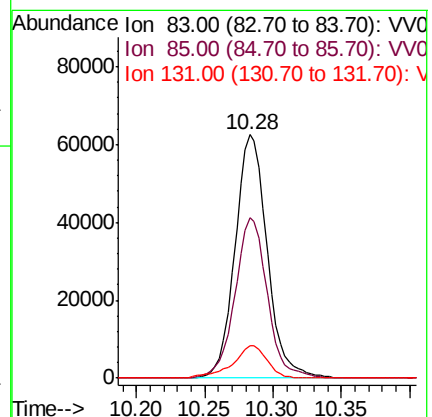
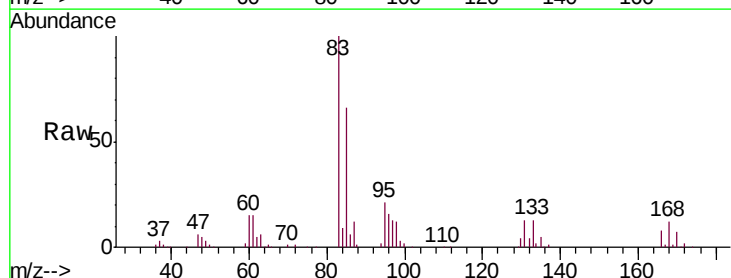
Tgt Ion: 83 Resp: 102322

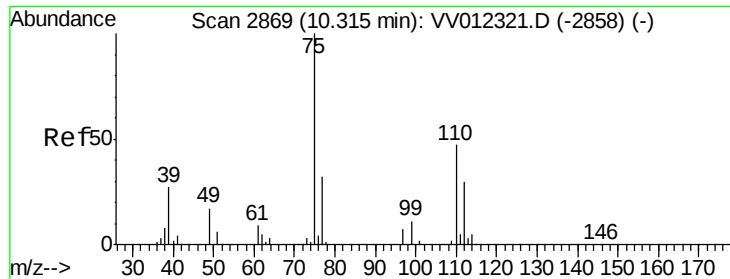
Ion Ratio Lower Upper

83 100

85 65.7 44.6 82.8

131 13.1 9.7 14.5





#59

1,2,3-Trichloropropane

Concen: 51.894 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

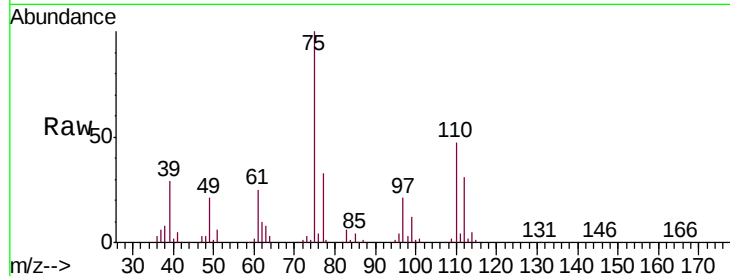
VSTD05078

Tgt Ion: 75 Resp: 86823

Ion Ratio Lower Upper

75 100

77 32.9 26.8 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV012321.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV012321.D (-2858) (-)

10.32

60000

50000

40000

30000

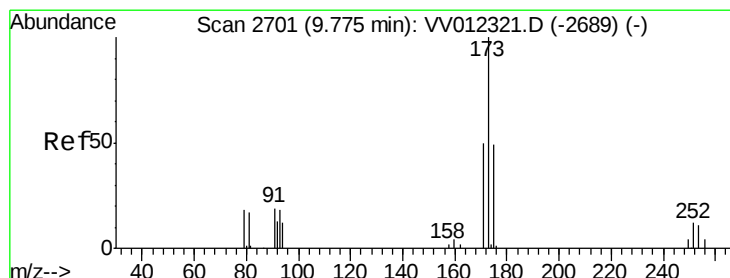
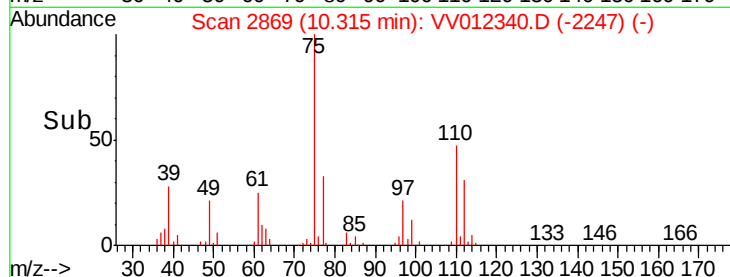
20000

10000

0

10.25 10.30 10.35 10.40

Time-->



#61

Bromoform

Concen: 48.281 ug/L

RT: 9.78 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

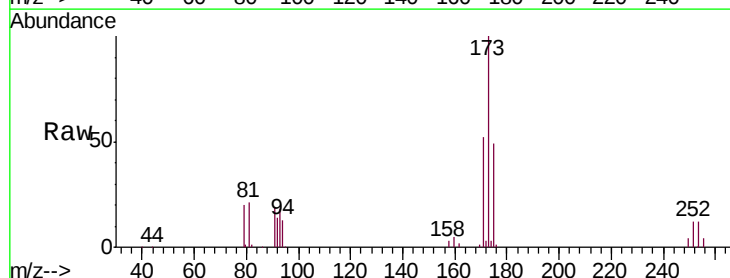
Tgt Ion: 173 Resp: 74180

Ion Ratio Lower Upper

173 100

175 49.1 39.0 58.4

254 11.1 9.3 13.9



Abundance Ion 173.00 (172.70 to 173.70): VV012321.D (-2689) (-)

Ion 175.00 (174.70 to 175.70): VV012321.D (-2689) (-)

Ion 254.00 (253.70 to 254.70): VV012321.D (-2689) (-)

9.78

60000

50000

40000

30000

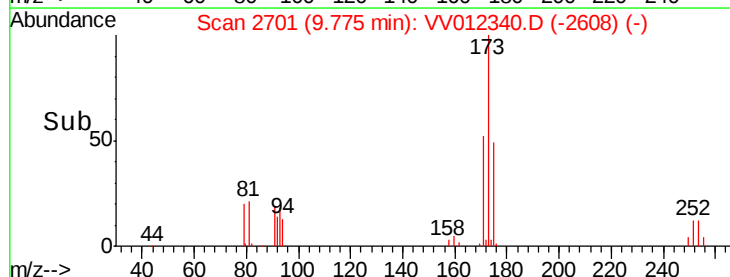
20000

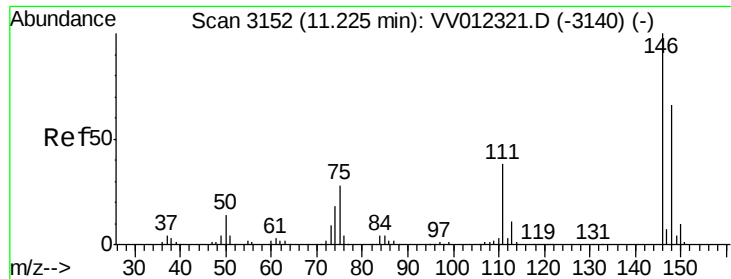
10000

0

9.70 9.75 9.80 9.85

Time-->

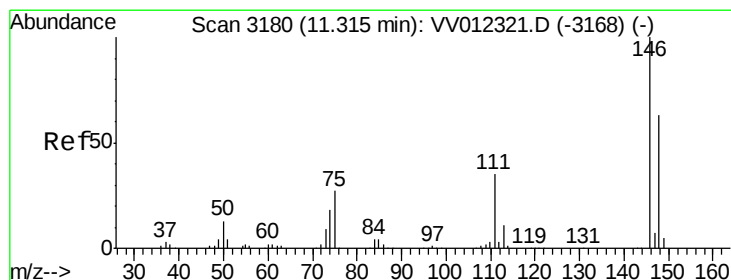
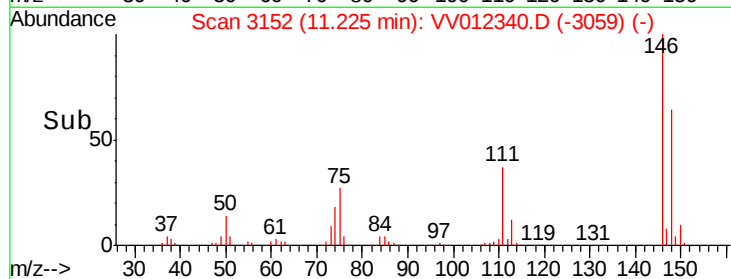
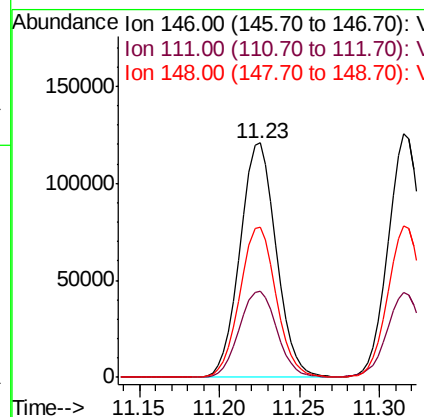
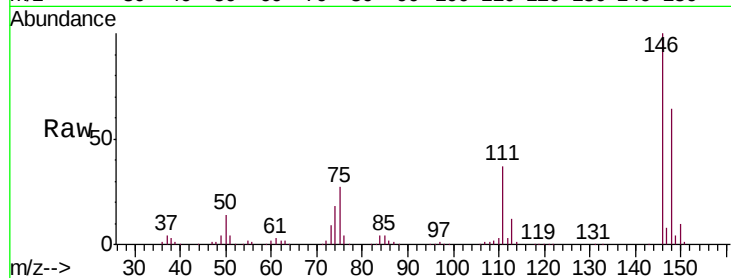




#62
 1,3-Dichlorobenzene
 Concen: 51.394 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012340.D
 Acq: 22 Aug 2019 11:00

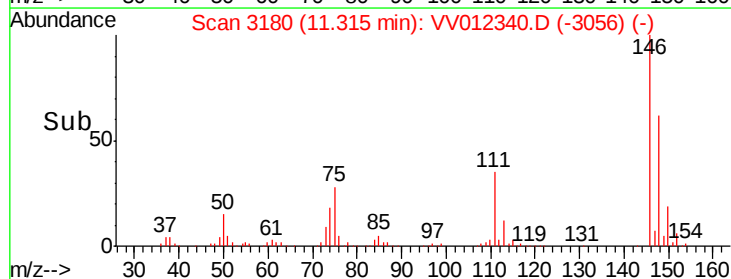
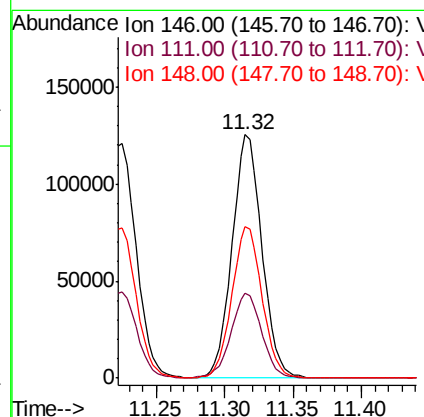
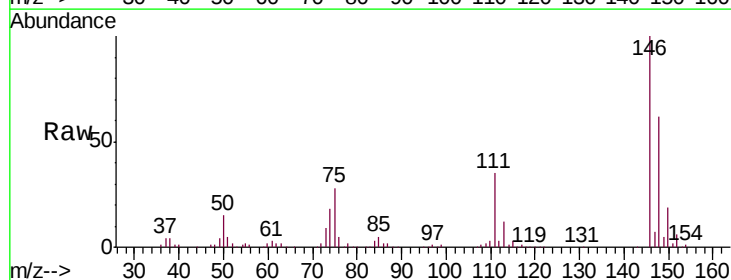
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

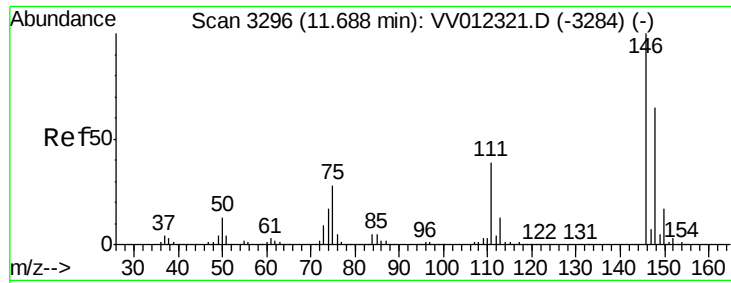
Tgt Ion:146 Resp: 186227
 Ion Ratio Lower Upper
 146 100
 111 36.5 26.7 49.7
 148 64.3 45.8 85.0



#63
 1,4-Dichlorobenzene
 Concen: 52.022 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV012340.D
 Acq: 22 Aug 2019 11:00

Tgt Ion:146 Resp: 190222
 Ion Ratio Lower Upper
 146 100
 111 34.9 25.8 47.8
 148 62.4 45.4 84.4





#65

1,2-Dichlorobenzene

Concen: 51.485 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

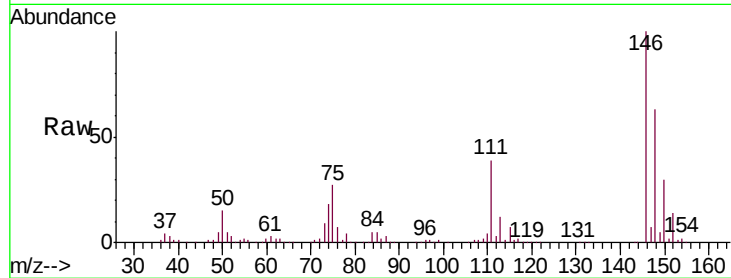
Tgt Ion:146 Resp: 188781

Ion Ratio Lower Upper

146 100

111 39.0 30.5 45.7

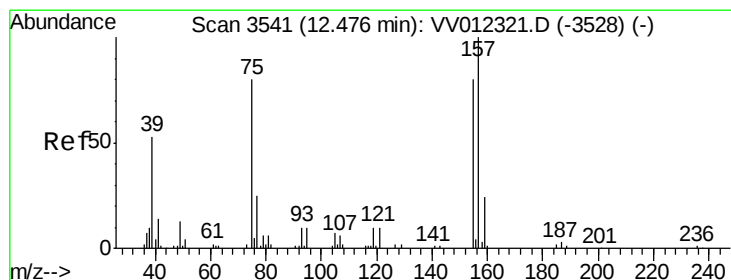
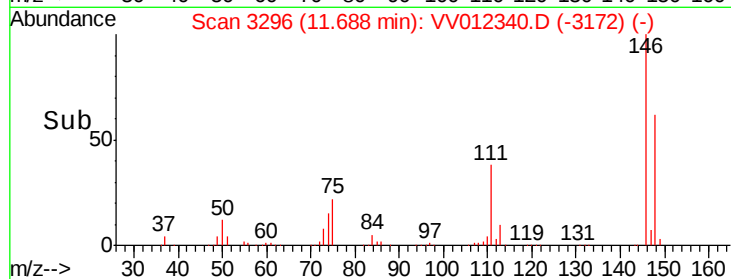
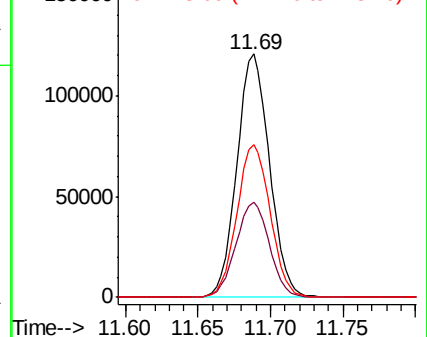
148 62.7 50.4 75.6



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: 45.328 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. -0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

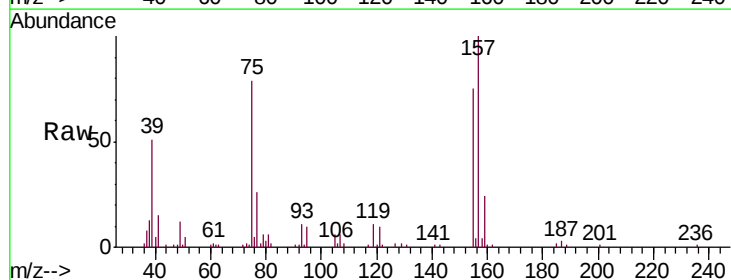
Tgt Ion: 75 Resp: 24179

Ion Ratio Lower Upper

75 100

155 94.7 83.6 125.4

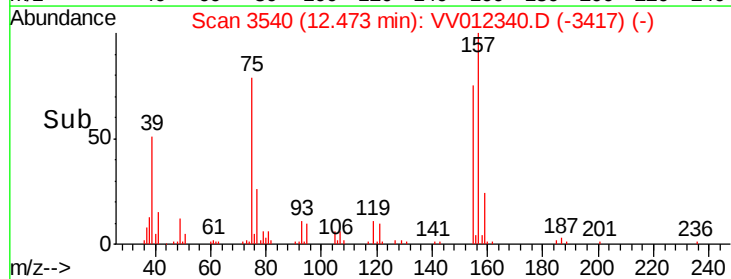
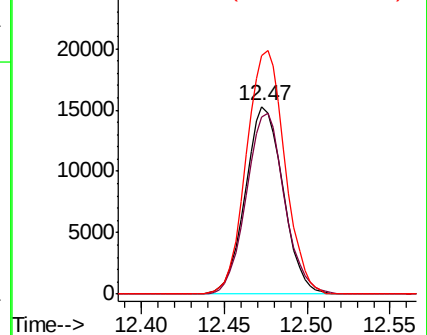
157 126.8 106.1 159.1

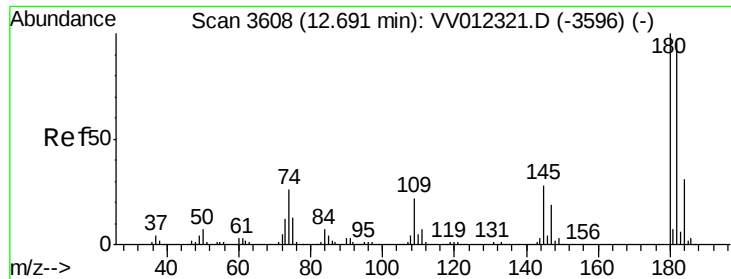


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

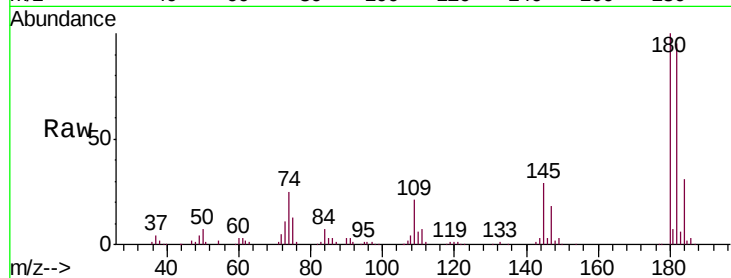




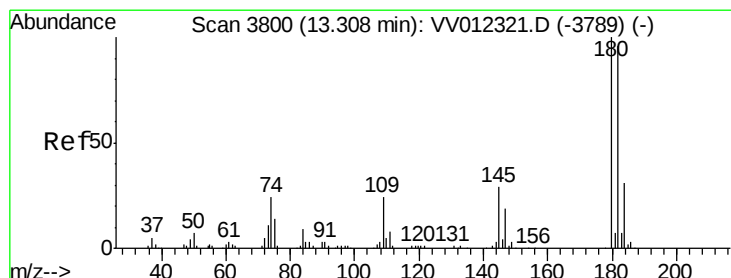
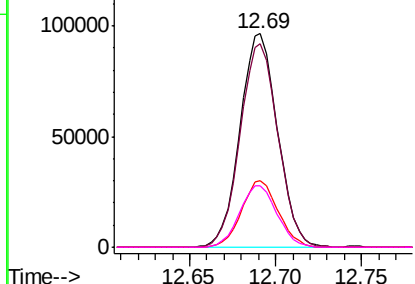
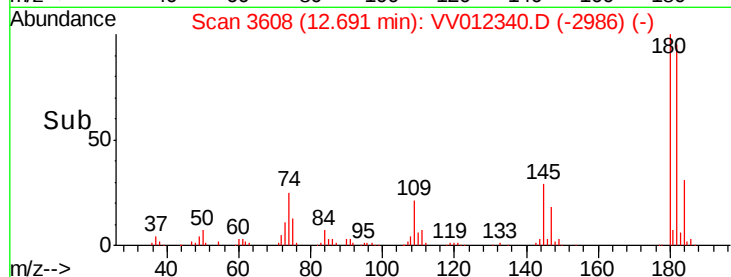
#67
 1,3,5-Trichlorobenzene
 Concen: 51.170 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012340.D
 Acq: 22 Aug 2019 11:00

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05078

Tgt Ion	Resp	Lower	Upper
180	146973		
182	95.8	77.6	116.4
184	30.4	24.9	37.3
145	28.5	23.3	34.9

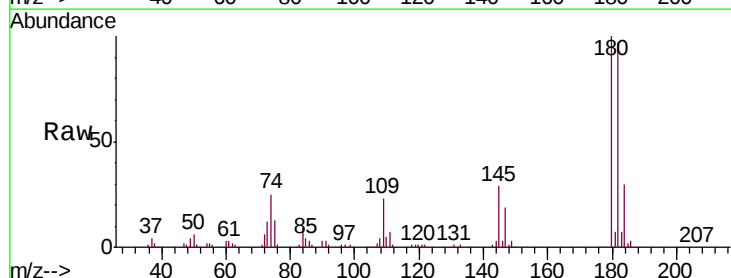


Abundance Ion 180.00 (179.70 to 180.70): V
 150000 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

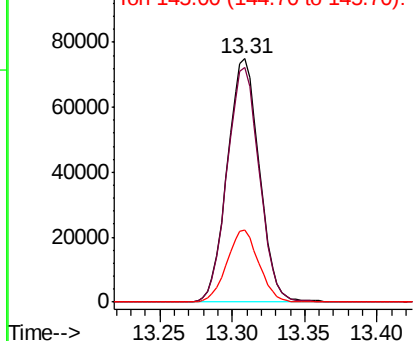
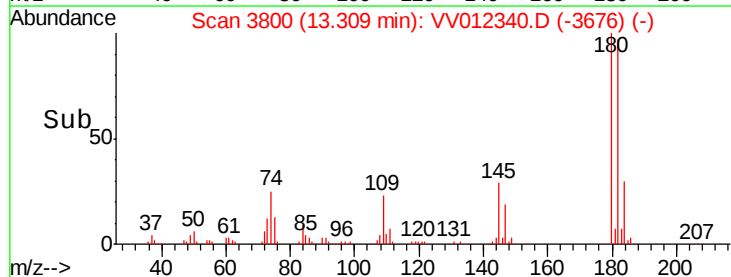


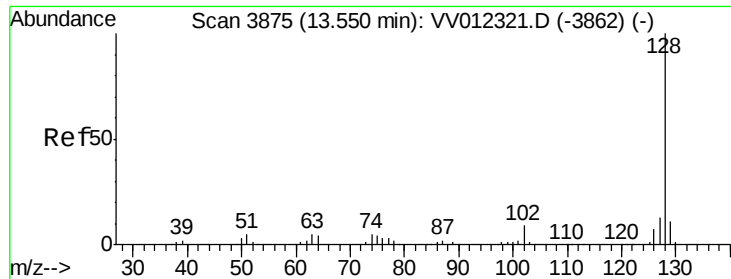
#68
 1,2,4-trichlorobenzene
 Concen: 51.208 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV012340.D
 Acq: 22 Aug 2019 11:00

Tgt Ion	Resp	Lower	Upper
180	115077		
182	96.8	76.7	115.1
145	29.4	23.4	35.2



Abundance Ion 180.00 (179.70 to 180.70): V
 100000 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 47.640 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

Instrument :

MSVOA_V

ClientSampleId :

VSTD05078

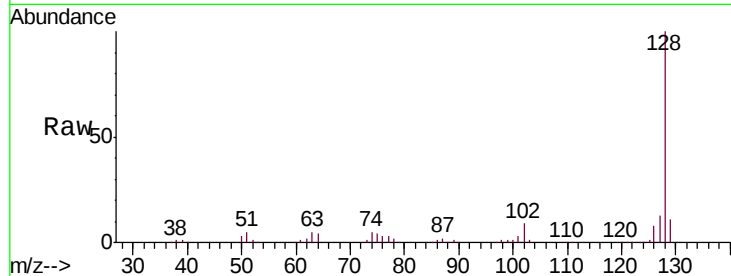
Tgt Ion:128 Resp: 287611

Ion Ratio Lower Upper

128 100

127 13.3 10.2 15.4

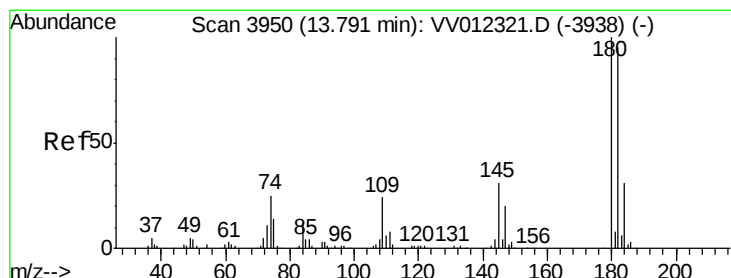
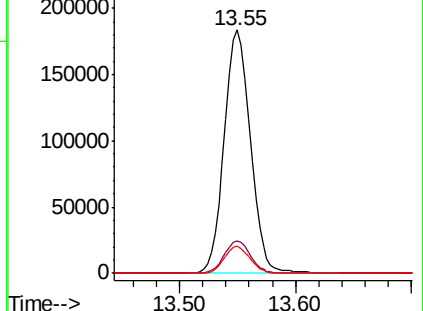
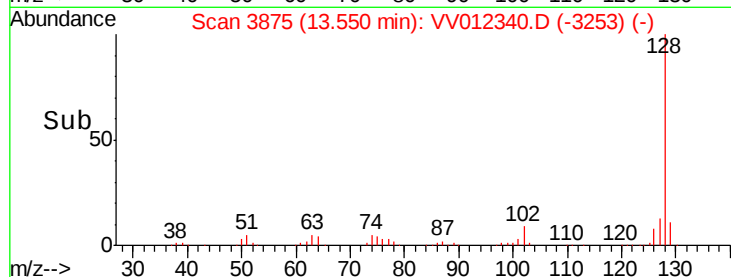
129 10.9 8.8 13.2



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: 53.261 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012340.D

Acq: 22 Aug 2019 11:00

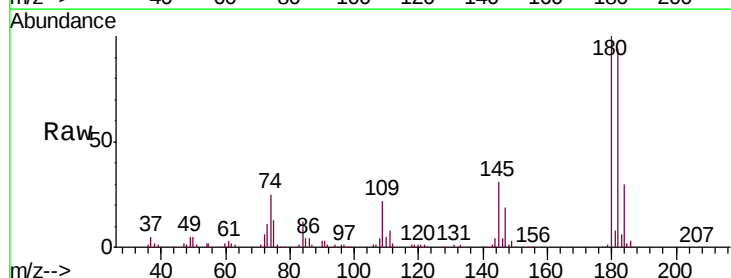
Tgt Ion:180 Resp: 122548

Ion Ratio Lower Upper

180 100

182 95.1 76.5 114.7

145 30.2 24.5 36.7



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

