

Data File : VV012212.D
Acq On : 12 Aug 2019 18:53
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

Quant Time: Aug 13 06:48:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081219WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Aug 13 06:45:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	440853	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	427634	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	216132	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	137450	47.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	94.78%
7) Chloroethane-d5	1.58	69	127965	50.42	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	100.84%
11) 1,1-Dichloroethene-d2	2.13	63	257486	47.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.78%
21) 2-Butanone-d5	3.93	46	305858	119.26	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	119.26%
24) Chloroform-d	4.40	84	350735	53.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.54%
26) 1,2-Dichloroethane-d4	5.08	65	223264	53.30	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	106.60%
32) Benzene-d6	5.10	84	696816	51.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.36%
36) 1,2-Dichloropropane-d6	6.12	67	220490	52.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	105.44%
41) Toluene-d8	7.36	98	630668	51.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.28%
43) trans-1,3-Dichloropropene-	7.66	79	110637	52.39	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	104.78%
47) 2-Hexanone-d5	8.13	63	222466	121.72	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	121.72%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	328132	53.96	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	107.92%
64) 1,2-Dichlorobenzene-d4	11.67	152	264737	51.32	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.64%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	192054	50.399	ug/L 100
3) Chloromethane	1.25	50	180731	50.996	ug/L 99
5) Vinyl chloride	1.32	62	184597	51.298	ug/L 99
6) Bromomethane	1.53	94	102276	51.845	ug/L 97
8) Chloroethane	1.60	64	110121	54.335	ug/L 99
9) Trichlorofluoromethane	1.77	101	245837	51.968	ug/L 100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	129400	48.383	ug/L 100
12) 1,1-Dichloroethene	2.14	96	124261	48.933	ug/L 95
13) Acetone	2.19	43	149413	73.653	ug/L 99
14) Carbon disulfide	2.32	76	410197	50.069	ug/L 100
15) Methyl Acetate	2.46	43	178372	54.521	ug/L 100
16) Methylene chloride	2.53	84	167580	53.421	ug/L 98
17) trans-1,2-Dichloroethene	2.79	96	155473	52.168	ug/L 99
18) Methyl tert-butyl Ether	2.80	73	479793	53.879	ug/L 99
19) 1,1-Dichloroethane	3.23	63	290128	53.730	ug/L 98
20) cis-1,2-Dichloroethene	3.96	96	174877	53.218	ug/L 96
22) 2-Butanone	4.01	43	250971	99.309	ug/L 96

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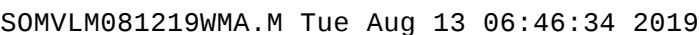
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

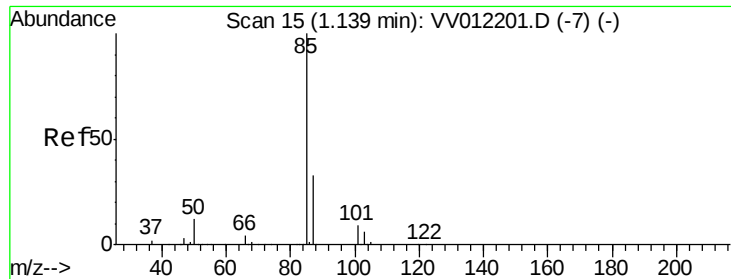
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Quant Title : VOC Analysis
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	89822	52.493	ug/L	99
25) Chloroform	4.43	83	299452	52.847	ug/L	99
27) 1,2-Dichloroethane	5.18	62	232053	54.937	ug/L	100
29) Cyclohexane	4.73	56	257617	52.592	ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	258637	53.185	ug/L	99
31) Carbon tetrachloride	4.88	117	230662	52.966	ug/L	99
33) Benzene	5.15	78	660051	54.066	ug/L	100
34) Trichloroethene	5.96	95	166363	51.623	ug/L	98
35) Methylcyclohexane	6.18	83	273086	52.346	ug/L	99
37) 1,2-Dichloropropane	6.22	63	169901	54.835	ug/L	99
38) Bromodichloromethane	6.56	83	225775	54.315	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	257909	52.918	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	487221	114.248	ug/L	99
42) Toluene	7.43	91	707613	54.383	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	239551	53.877	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	163429	53.559	ug/L	98
46) Tetrachloroethene	8.02	164	137757	50.178	ug/L	99
48) 2-Hexanone	8.18	43	370442	105.633	ug/L	99
49) Dibromochloromethane	8.29	129	187412	54.494	ug/L	96
50) 1,2-Dibromoethane	8.40	107	176353	54.002	ug/L	100
51) Chlorobenzene	8.92	112	454602	52.641	ug/L	99
52) Ethylbenzene	9.05	91	775376	54.134	ug/L	100
53) m,p-Xylene	9.18	106	298850	54.197	ug/L	99
54) o-xylene	9.59	106	294562	55.135	ug/L	100
55) Styrene	9.60	104	506846	55.309	ug/L	97
56) Isopropylbenzene	9.97	105	765823	54.610	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	271083	54.056	ug/L	100
59) 1,2,3-Trichloropropane	10.32	75	213390	54.705	ug/L	100
61) Bromoform	9.77	173	134270	54.064	ug/L	100
62) 1,3-Dichlorobenzene	11.22	146	360085	52.144	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	359100	50.899	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	358832	51.895	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	58708	55.152	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	271048	51.720	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	232076	53.653	ug/L	99
69) Naphthalene	13.55	128	718871	57.932	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	244965	53.714	ug/L	99

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

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#2

Dichlorodifluoromethane

Concen: 50.399 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

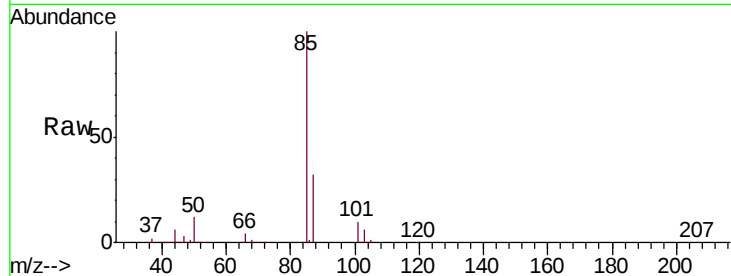
VSTD05075

Tgt Ion: 85 Resp: 192054

Ion Ratio Lower Upper

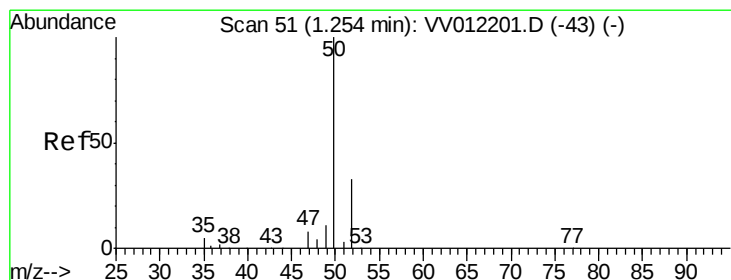
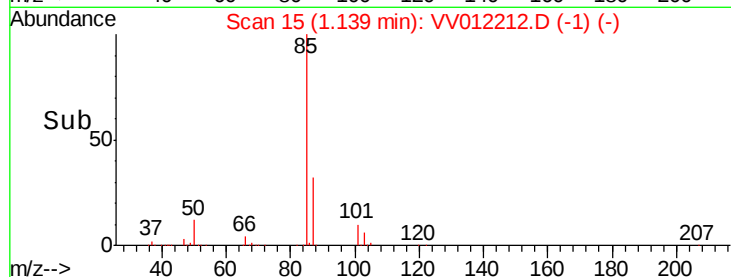
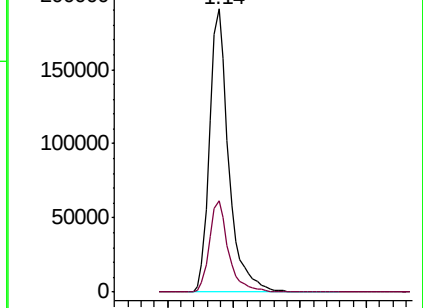
85 100

87 32.3 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 50.996 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012212.D

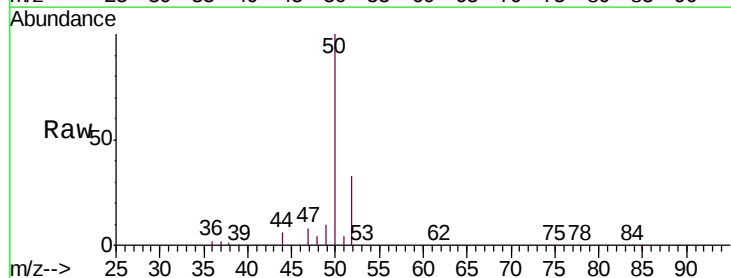
Acq: 12 Aug 2019 18:53

Tgt Ion: 50 Resp: 180731

Ion Ratio Lower Upper

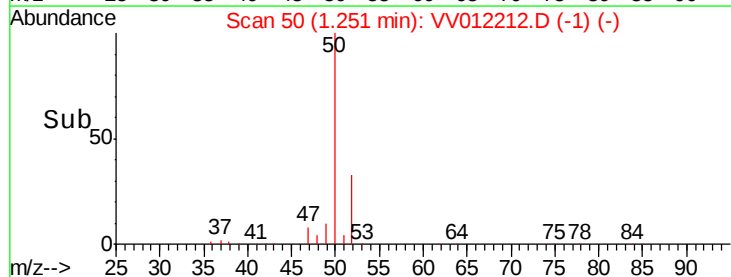
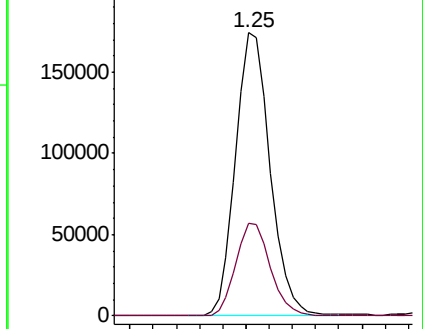
50 100

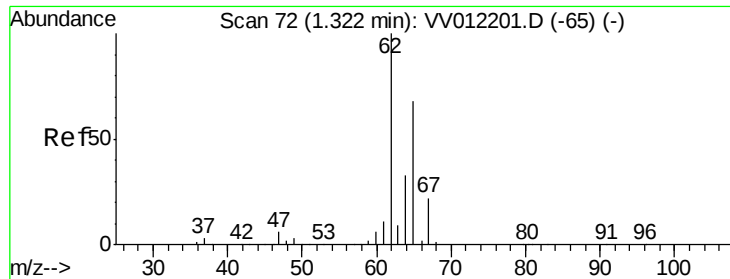
52 32.7 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 51.298 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

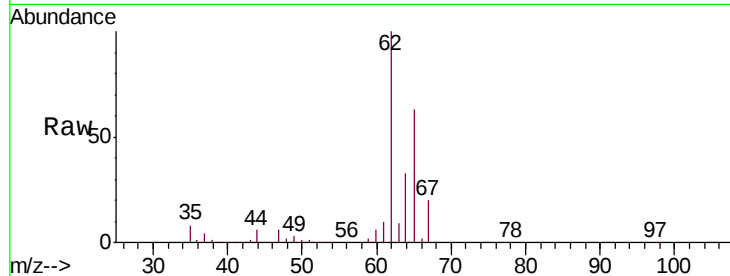
VSTD05075

Tgt Ion: 62 Resp: 184597

Ion Ratio Lower Upper

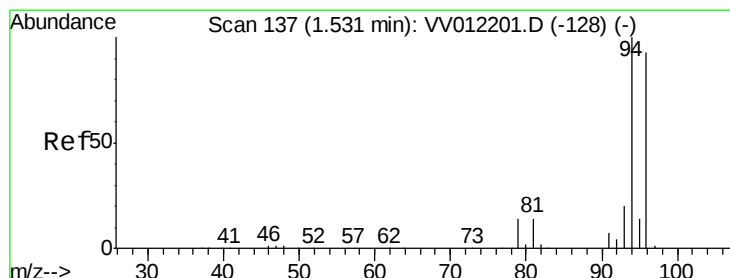
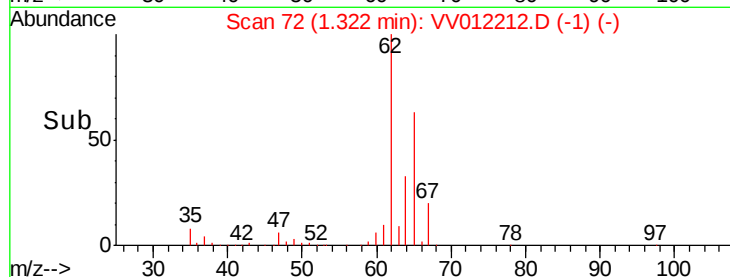
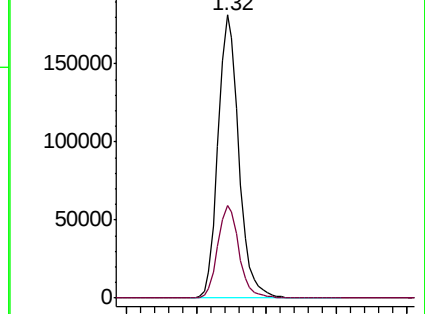
62 100

64 32.5 23.1 42.9



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 51.845 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV012212.D

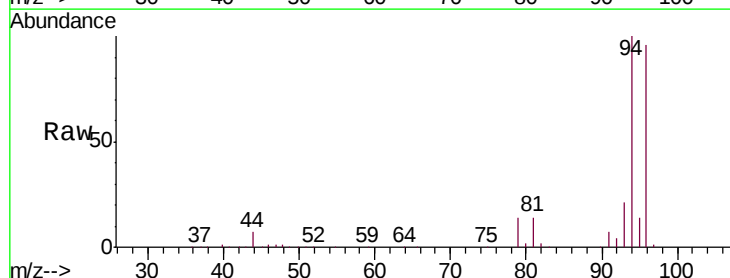
Acq: 12 Aug 2019 18:53

Tgt Ion: 94 Resp: 102276

Ion Ratio Lower Upper

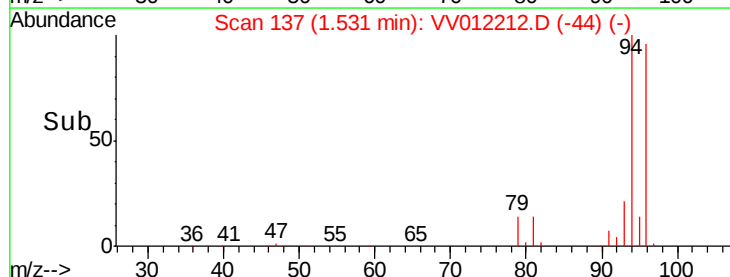
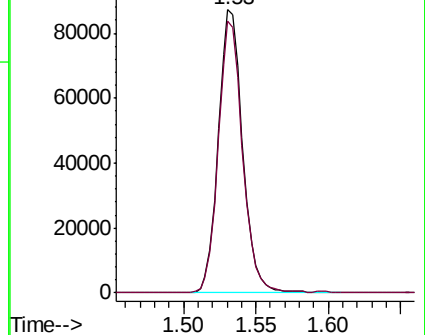
94 100

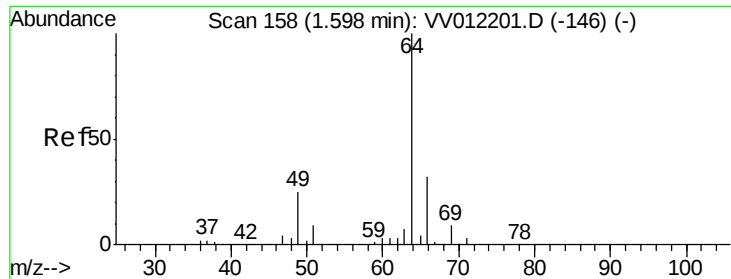
96 95.9 65.0 120.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 54.335 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

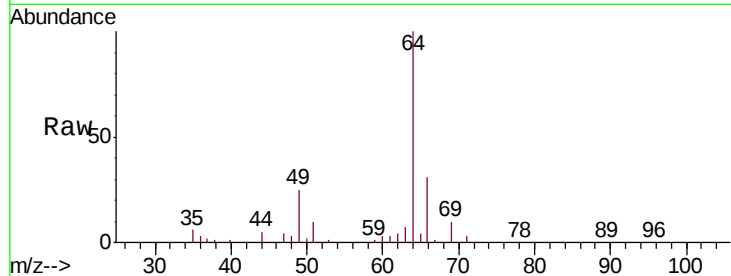
VSTD05075

Tgt Ion: 64 Resp: 110121

Ion Ratio Lower Upper

64 100

66 31.2 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VV012201.D (-146) (-)

Ion 66.00 (65.70 to 66.70): VV012201.D (-146) (-)

1.60

100000

80000

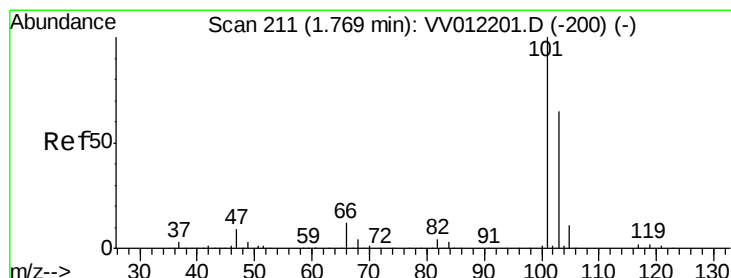
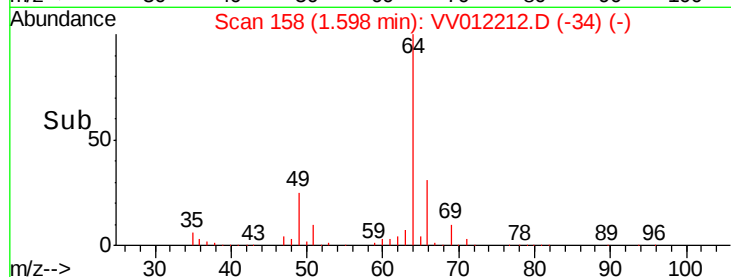
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 51.968 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV012212.D

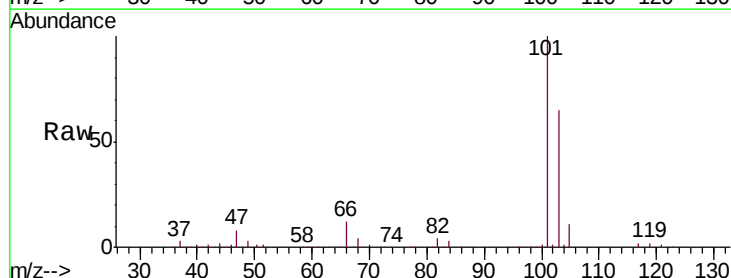
Acq: 12 Aug 2019 18:53

Tgt Ion: 101 Resp: 245837

Ion Ratio Lower Upper

101 100

103 64.9 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VV012201.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV012201.D (-200) (-)

1.77

200000

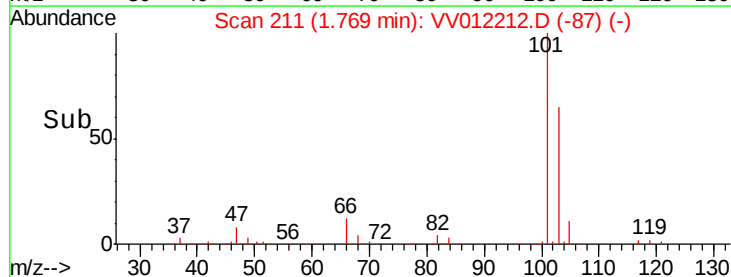
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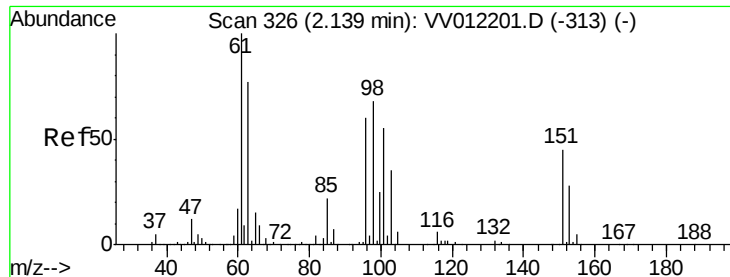
100000

50000

0

Time-->





#10

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

Concen: 48.383 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

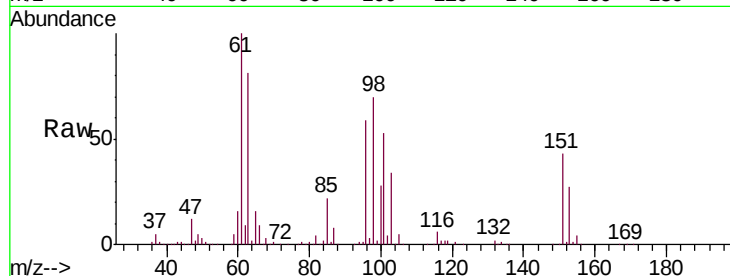
Tgt Ion: 101 Resp: 129400

Ion Ratio Lower Upper

101 100

85 41.7 32.8 49.2

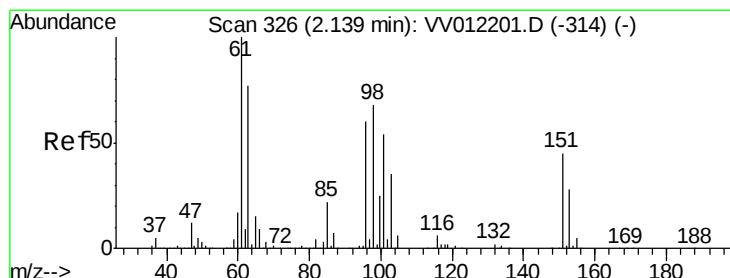
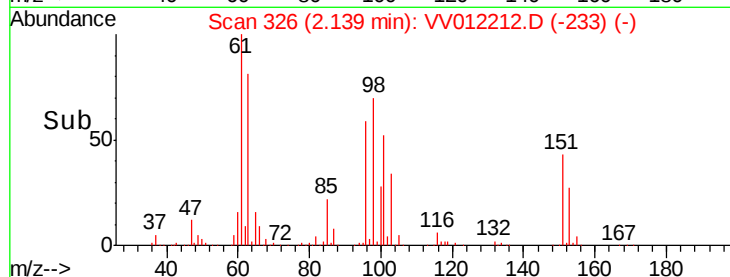
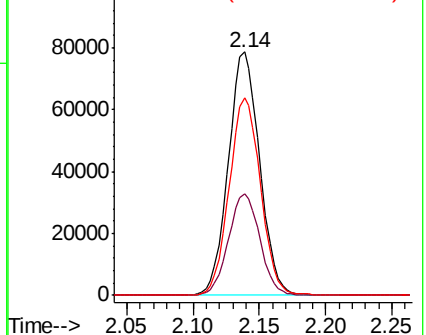
151 81.2 65.0 97.6



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: 48.933 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

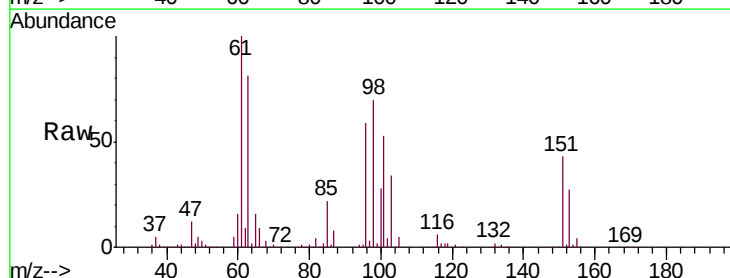
Tgt Ion: 96 Resp: 124261

Ion Ratio Lower Upper

96 100

61 170.3 115.9 215.3

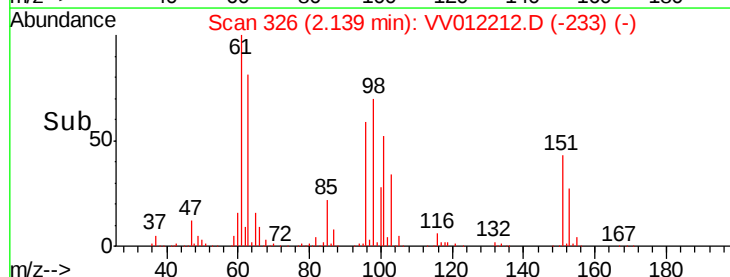
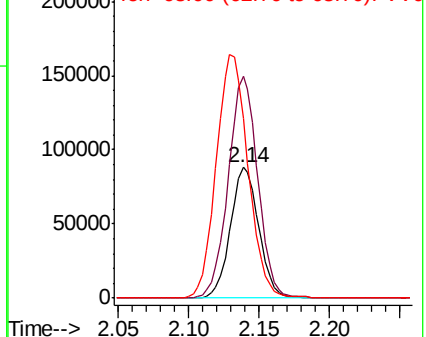
63 137.4 90.0 167.2

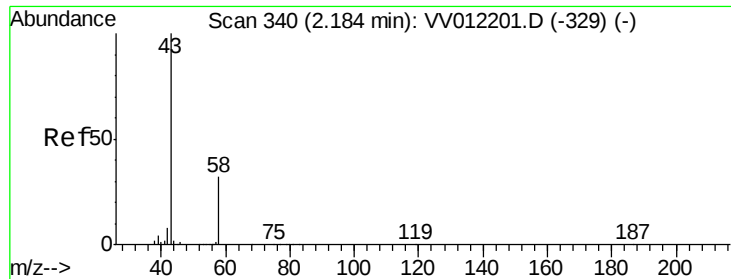


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 73.653 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

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MSVOA_V

ClientSampleId :

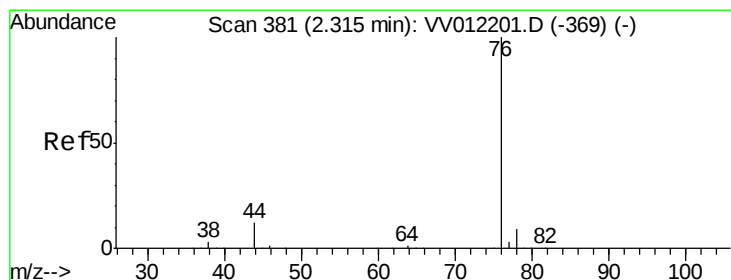
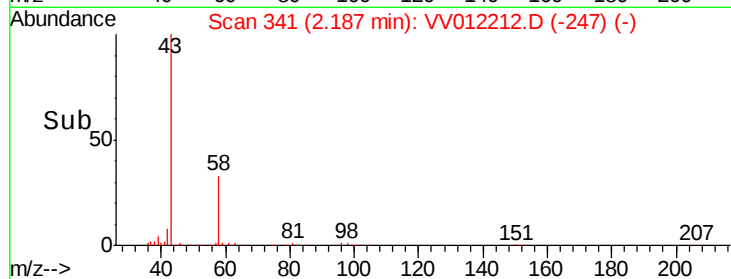
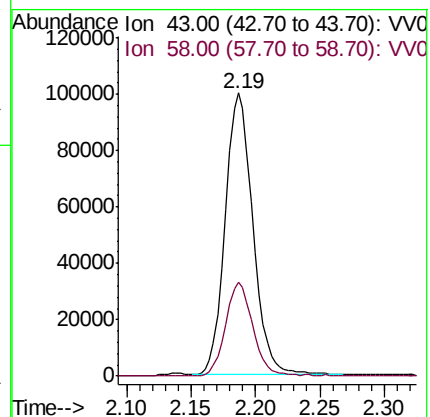
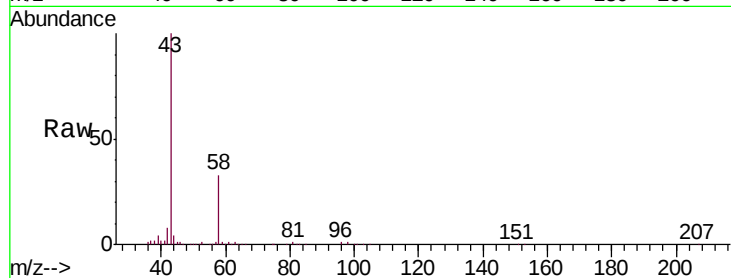
VSTD05075

Tgt Ion: 43 Resp: 149413

Ion Ratio Lower Upper

43 100

58 32.1 0.0 63.2



#14

Carbon disulfide

Concen: 50.069 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012212.D

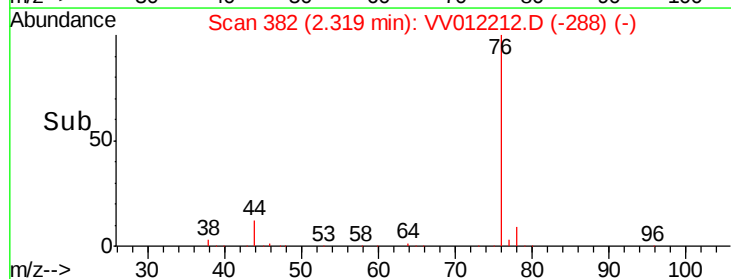
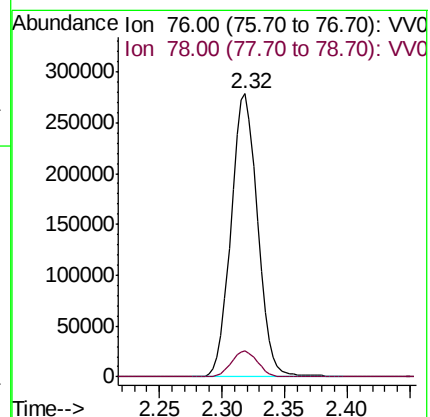
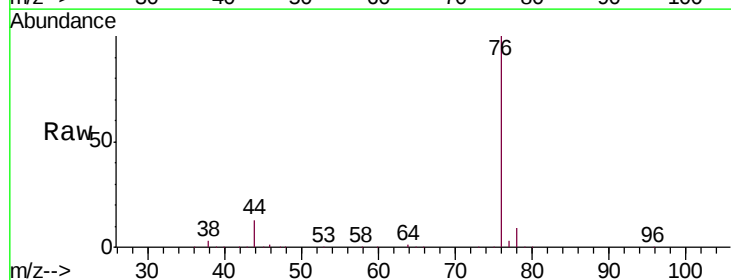
Acq: 12 Aug 2019 18:53

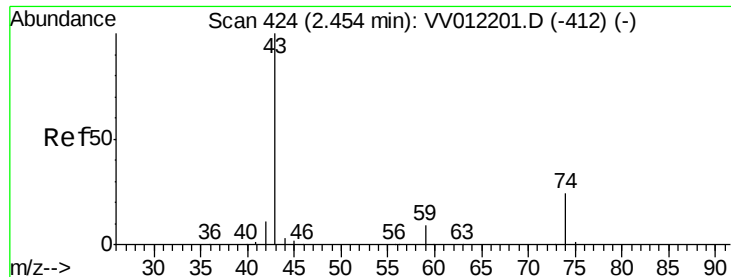
Tgt Ion: 76 Resp: 410197

Ion Ratio Lower Upper

76 100

78 9.0 7.1 10.7

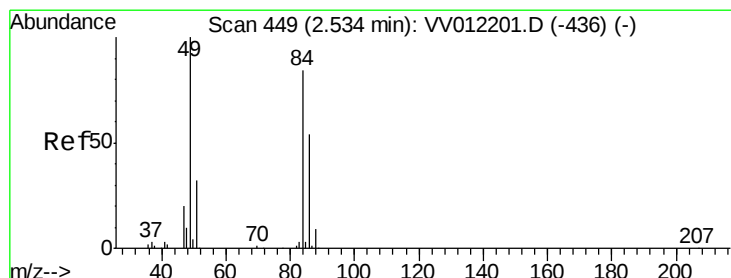
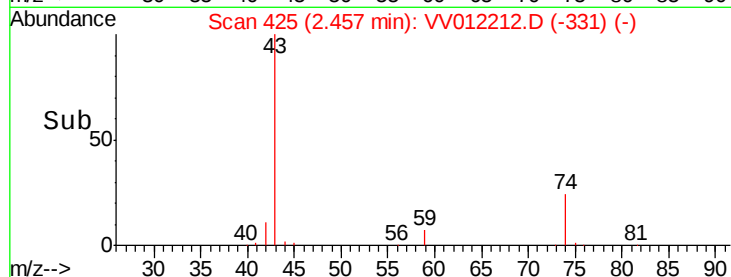
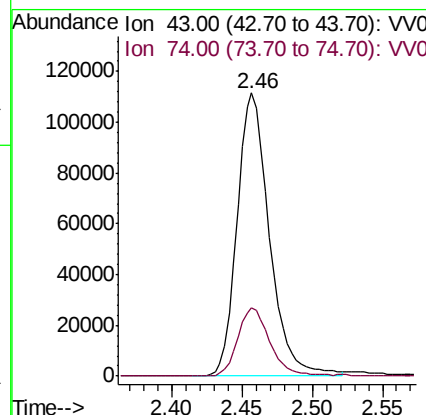
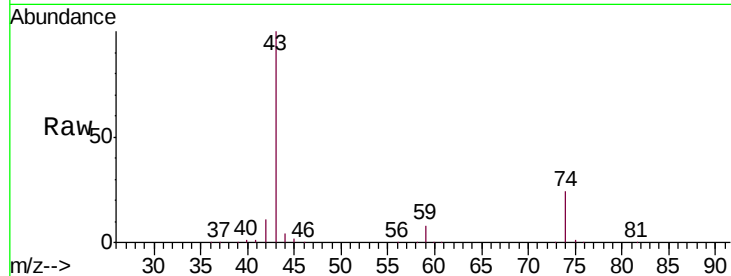




#15
Methyl Acetate
Concen: 54.521 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV012212.D
Acq: 12 Aug 2019 18:53

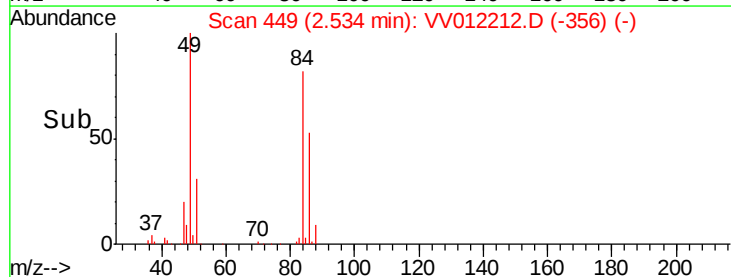
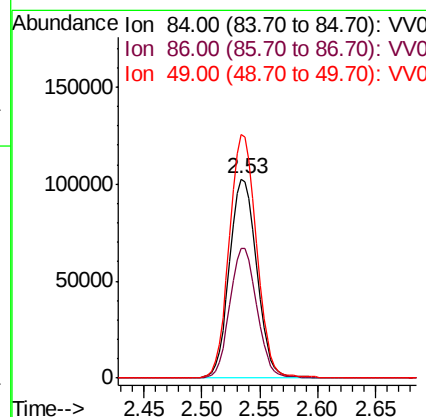
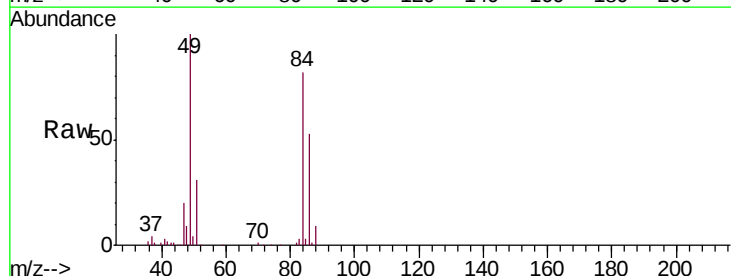
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

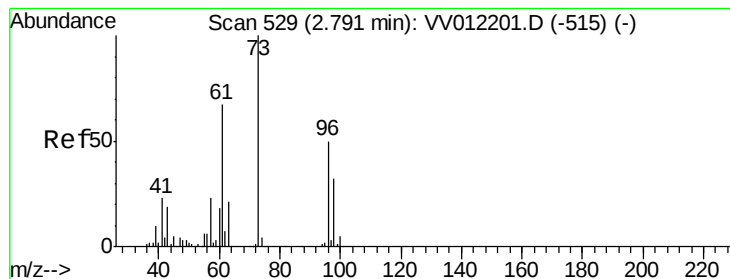
Tgt Ion: 43 Resp: 178372
Ion Ratio Lower Upper
43 100
74 24.1 19.4 29.0



#16
Methylene chloride
Concen: 53.421 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV012212.D
Acq: 12 Aug 2019 18:53

Tgt Ion: 84 Resp: 167580
Ion Ratio Lower Upper
84 100
86 65.5 44.9 83.5
49 122.4 83.7 155.5





#17

trans-1,2-Dichloroethene

Concen: 52.168 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

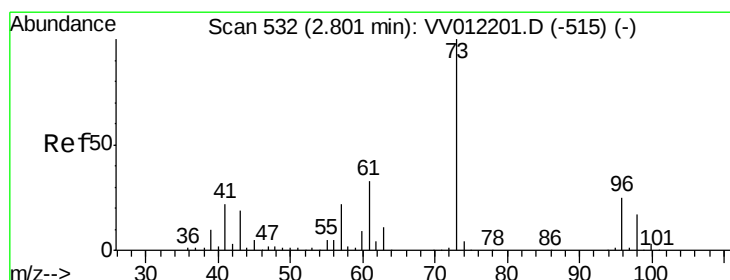
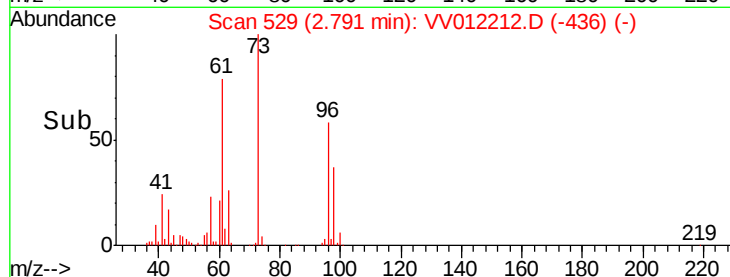
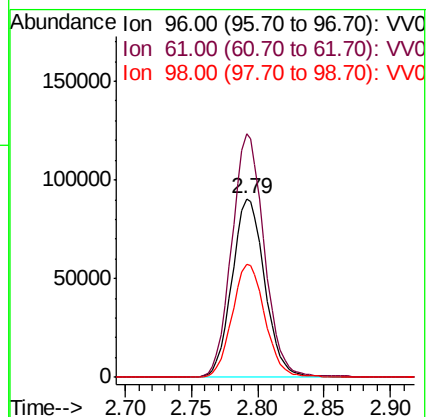
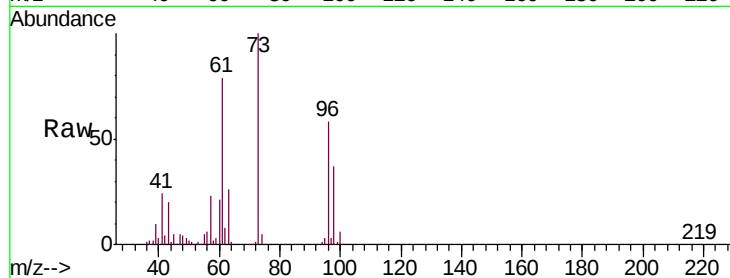
Tgt Ion: 96 Resp: 155473

Ion Ratio Lower Upper

96 100

61 136.2 94.8 176.2

98 63.2 44.9 83.5



#18

Methyl tert-butyl Ether

Concen: 53.879 ug/L

RT: 2.80 min Scan# 533

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

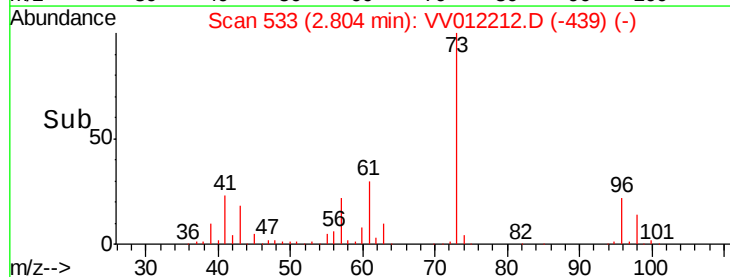
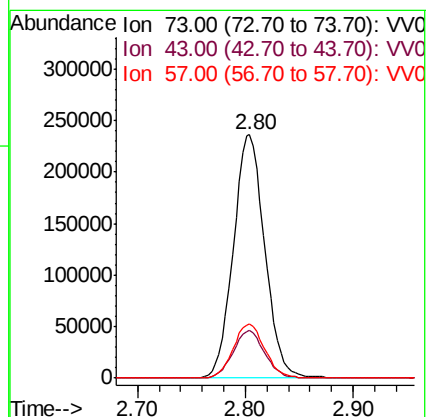
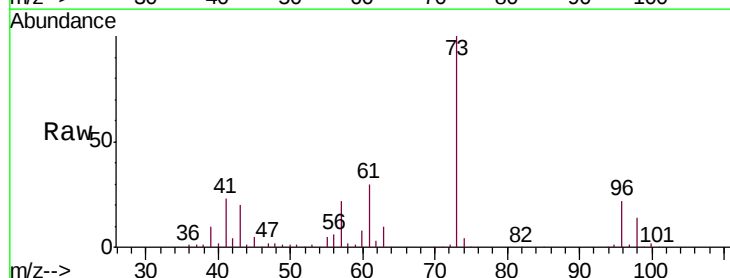
Tgt Ion: 73 Resp: 479793

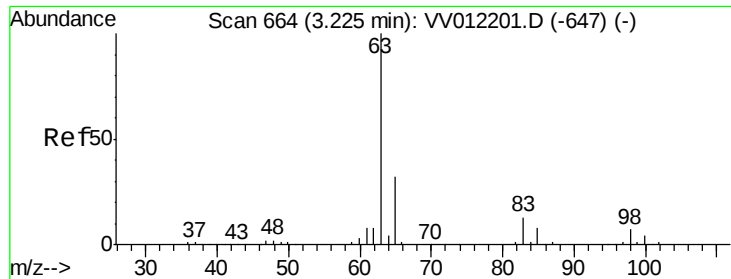
Ion Ratio Lower Upper

73 100

43 19.4 15.1 22.7

57 22.3 18.0 27.0

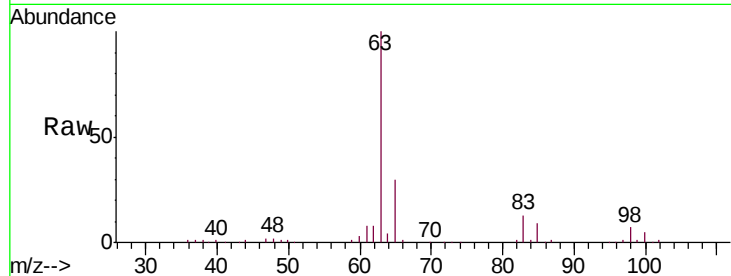




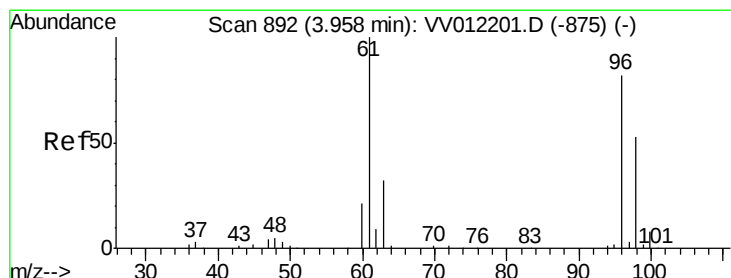
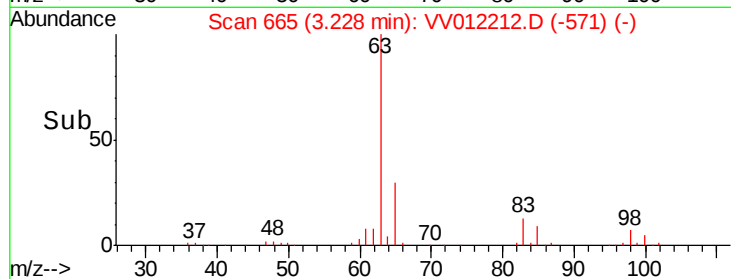
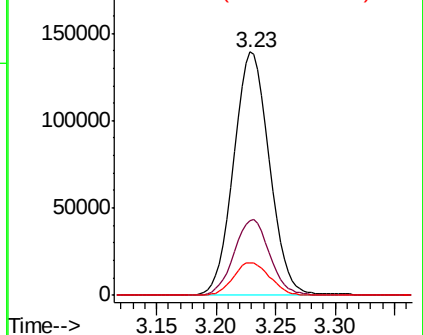
#19
 1,1-Dichloroethane
 Concen: 53.730 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV012212.D
 Acq: 12 Aug 2019 18:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

Tgt Ion: 63 Resp: 290128
 Ion Ratio Lower Upper
 63 100
 65 30.5 22.0 41.0
 83 13.4 9.2 17.0

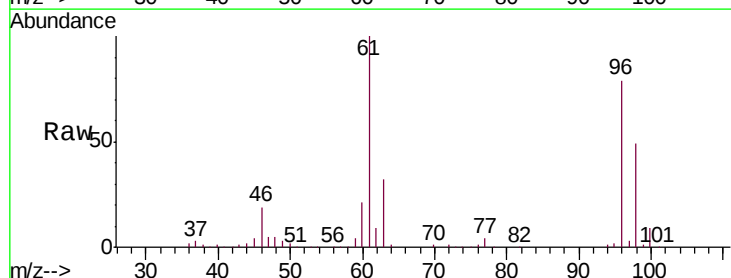


Abundance Ion 63.00 (62.70 to 63.70): VV0
 Ion 65.00 (64.70 to 65.70): VV0
 Ion 83.00 (82.70 to 83.70): VV0

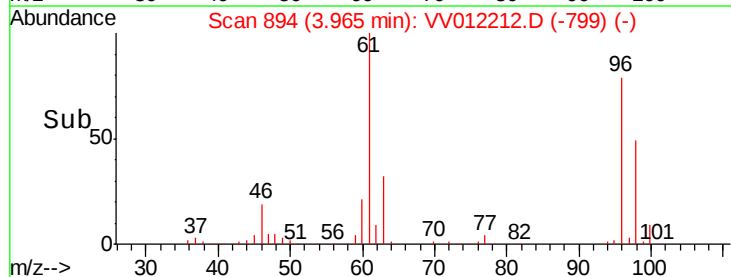
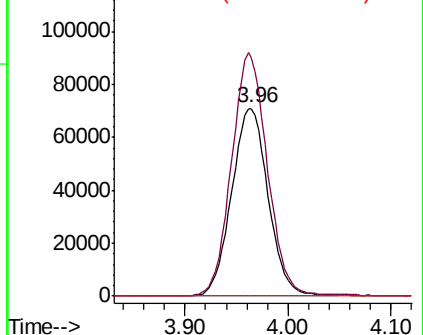


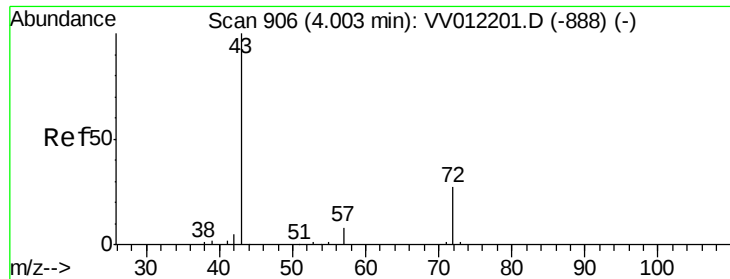
#20
 cis-1,2-Dichloroethene
 Concen: 53.218 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. 0.01 min
 Lab File: VV012212.D
 Acq: 12 Aug 2019 18:53

Tgt Ion: 96 Resp: 174877
 Ion Ratio Lower Upper
 96 100
 61 127.3 85.8 159.3
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.00 (60.70 to 61.70): VV0
 Ion 68.00 (67.70 to 68.70): VV0





#22

2-Butanone

Concen: 99.309 ug/L

RT: 4.01 min Scan# 908

Delta R.T. 0.01 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampled :

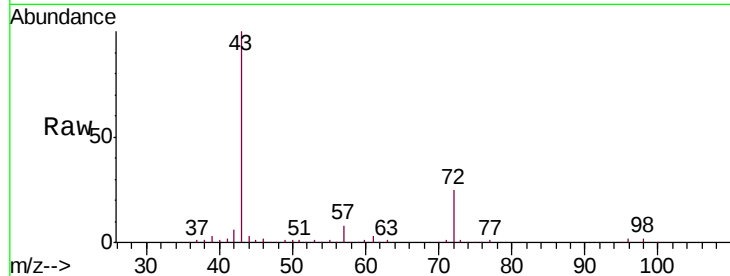
VSTD05075

Tgt Ion: 43 Resp: 250971

Ion Ratio Lower Upper

43 100

72 25.0 13.5 40.4



Abundance Ion 43.00 (42.70 to 43.70): VV012212.D (-908) (-)

Ion 72.00 (71.70 to 72.70): VV012212.D (-908) (-)

4.01

100000

80000

60000

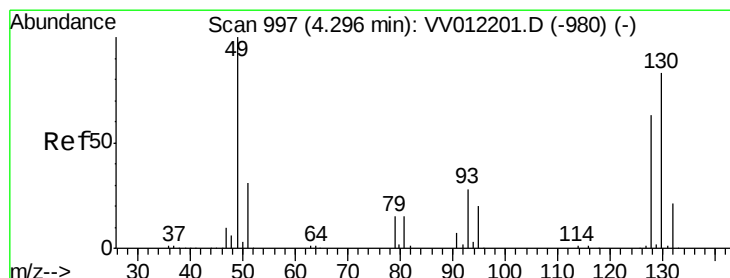
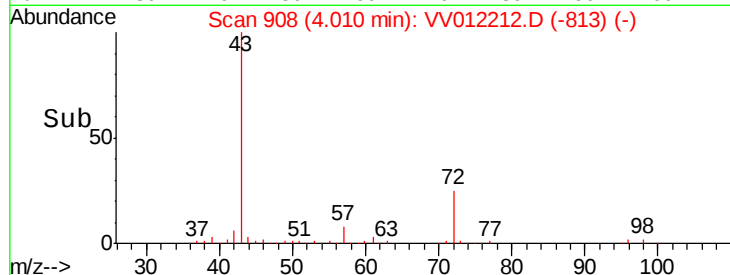
40000

20000

0

Time-->

3.90 4.00 4.10



#23

Bromochloromethane

Concen: 52.493 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Tgt Ion: 128 Resp: 89822

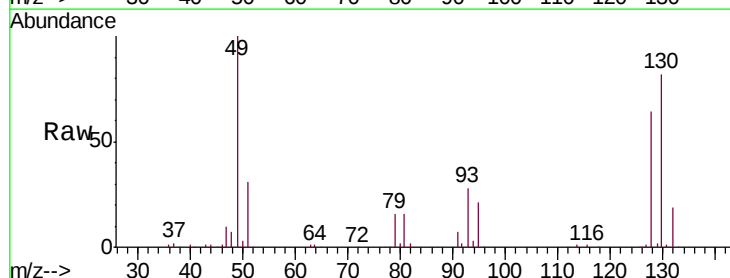
Ion Ratio Lower Upper

128 100

49 156.8 111.0 206.2

130 128.4 91.3 169.6

51 49.0 39.8 59.6



Abundance Ion 128.00 (127.70 to 128.70): VV012212.D (-998) (-)

Ion 49.00 (48.70 to 49.70): VV012212.D (-998) (-)

Ion 130.00 (129.70 to 130.70): VV012212.D (-998) (-)

Ion 51.00 (50.70 to 51.70): VV012212.D (-998) (-)

4.30

80000

60000

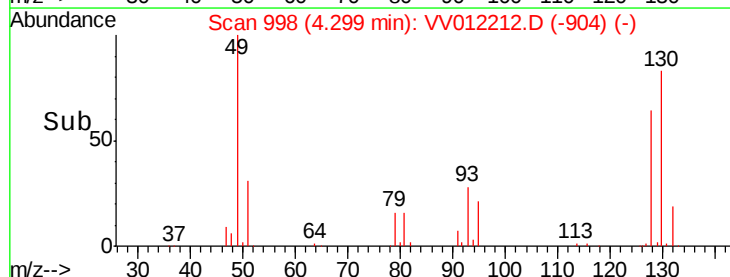
40000

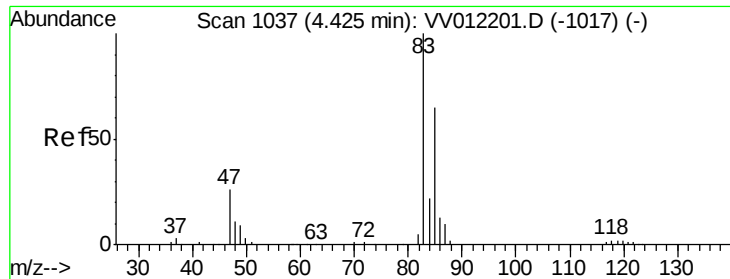
20000

0

Time-->

4.20 4.30 4.40

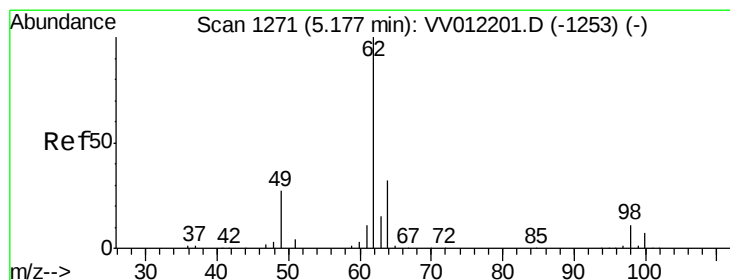
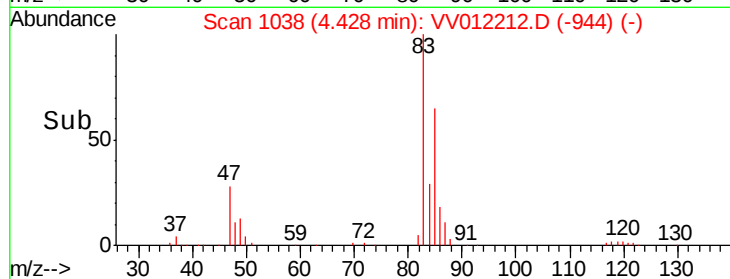
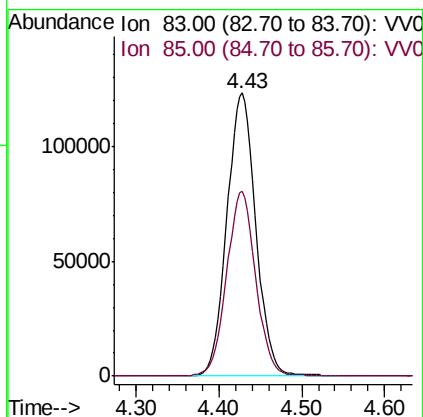
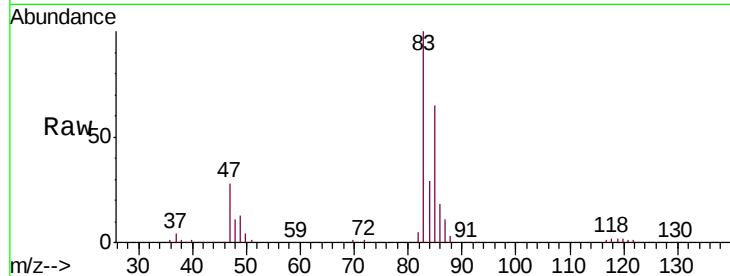




#25
Chloroform
Concen: 52.847 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV012212.D
Acq: 12 Aug 2019 18:53

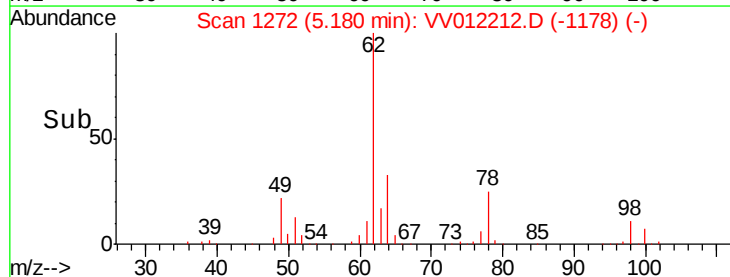
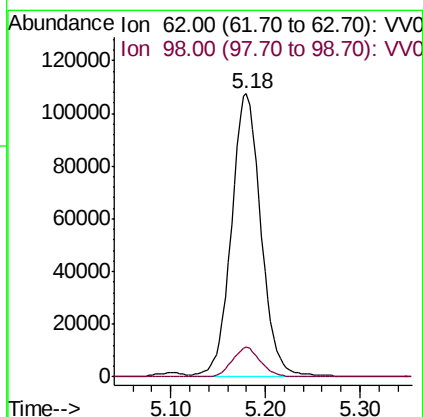
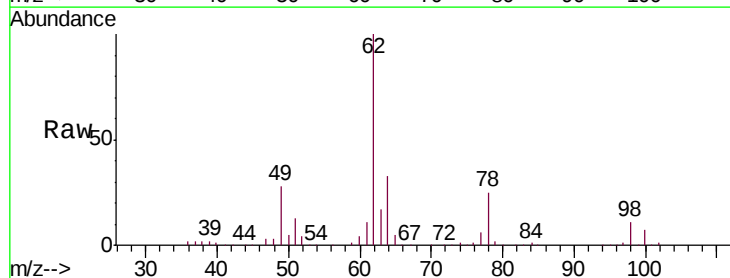
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

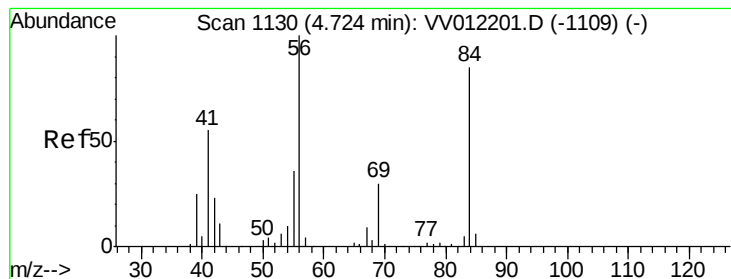
Tgt Ion: 83 Resp: 299452
Ion Ratio Lower Upper
83 100
85 65.4 45.4 84.2



#27
1,2-Dichloroethane
Concen: 54.937 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV012212.D
Acq: 12 Aug 2019 18:53

Tgt Ion: 62 Resp: 232053
Ion Ratio Lower Upper
62 100
98 10.6 8.4 12.6





#29

Cyclohexane

Concen: 52.592 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

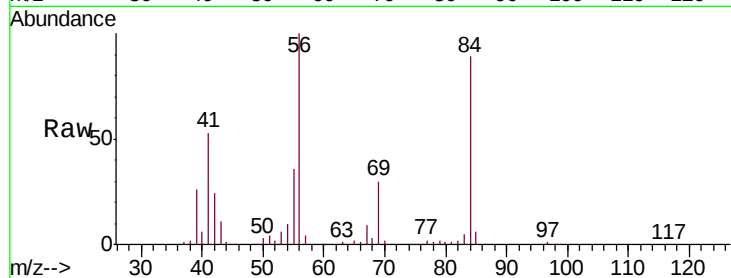
Tgt Ion: 56 Resp: 257617

Ion Ratio Lower Upper

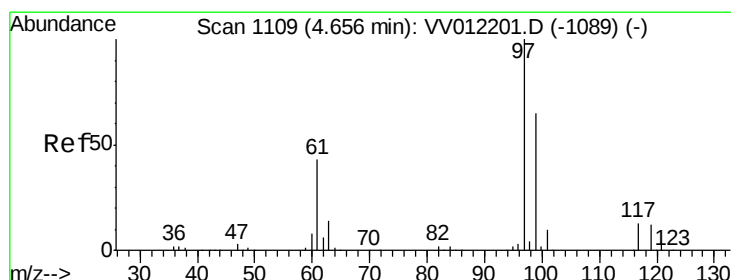
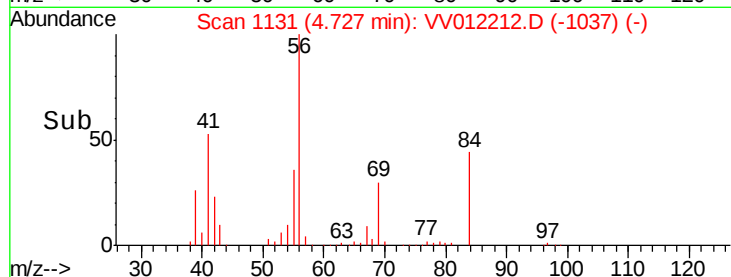
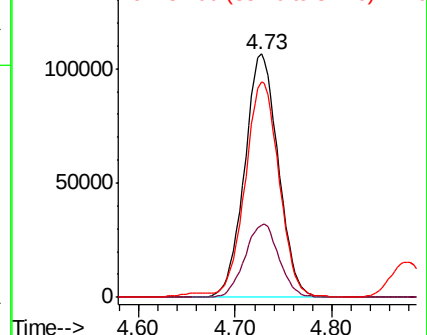
56 100

69 30.5 24.1 36.1

84 88.8 70.3 105.5



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#30

1,1,1-Trichloroethane

Concen: 53.185 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

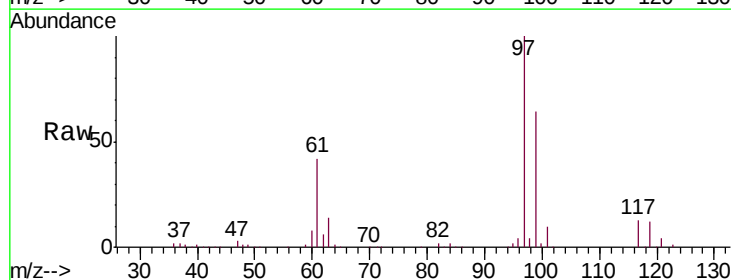
Tgt Ion: 97 Resp: 258637

Ion Ratio Lower Upper

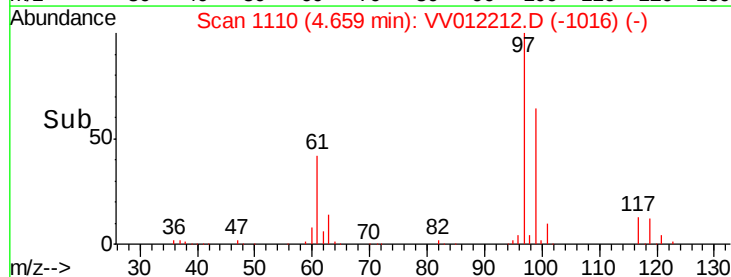
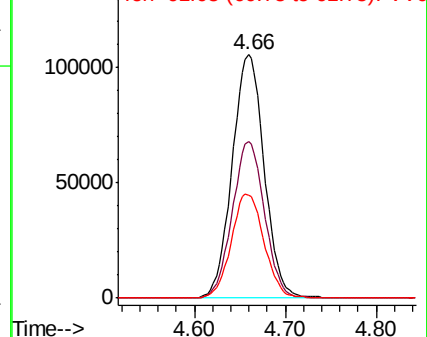
97 100

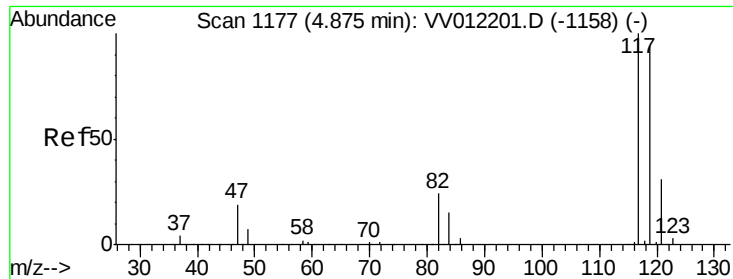
99 64.7 51.4 77.2

61 43.9 34.4 51.6



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.05 (60.75 to 61.75): VV0





#31

Carbon tetrachloride

Concen: 52.966 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampled :

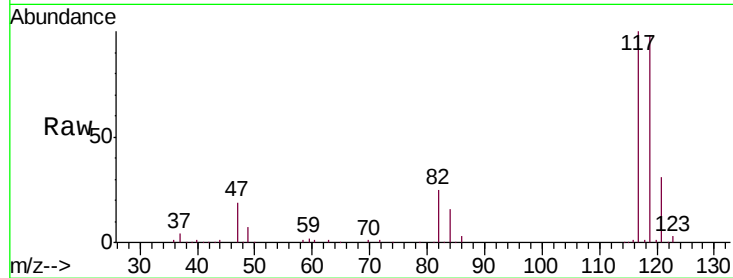
VSTD05075

Tgt Ion:117 Resp: 230662

Ion Ratio Lower Upper

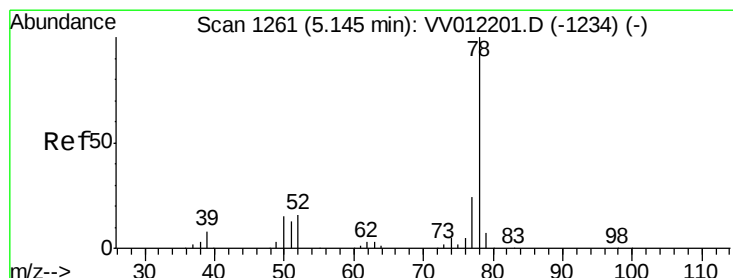
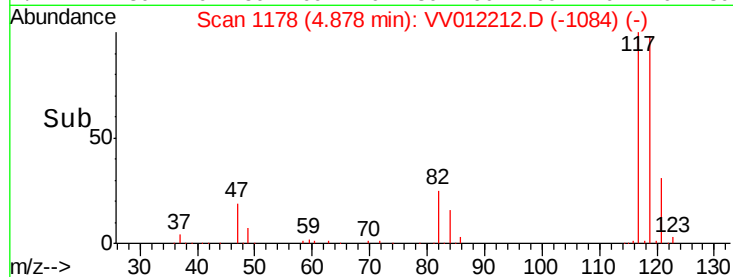
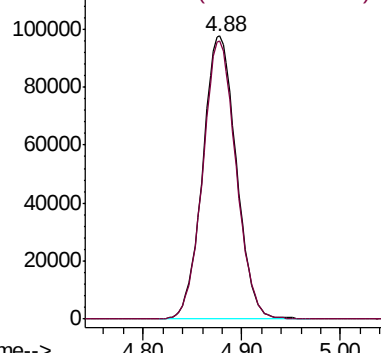
117 100

119 97.2 77.1 115.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 54.066 ug/L

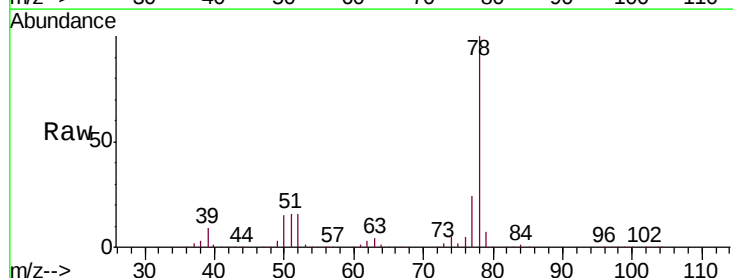
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

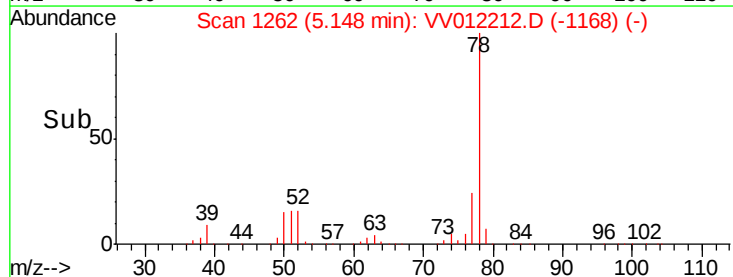
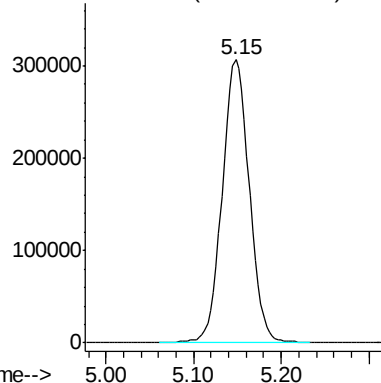
Lab File: VV012212.D

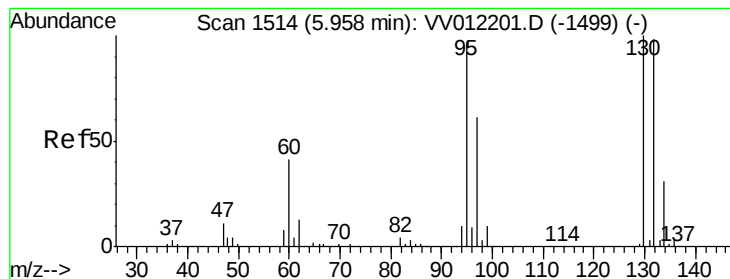
Acq: 12 Aug 2019 18:53

Tgt Ion: 78 Resp: 660051



Abundance Ion 78.00 (77.70 to 78.70): VV0





#34

Trichloroethene

Concen: 51.623 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

Tgt Ion: 95 Resp: 166363

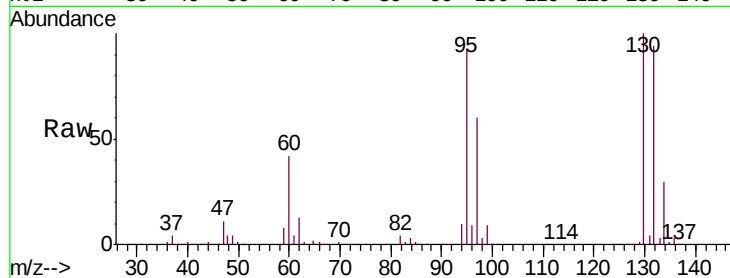
Ion Ratio Lower Upper

95 100

97 64.5 44.3 82.3

132 101.1 70.7 131.3

130 107.1 72.3 134.3

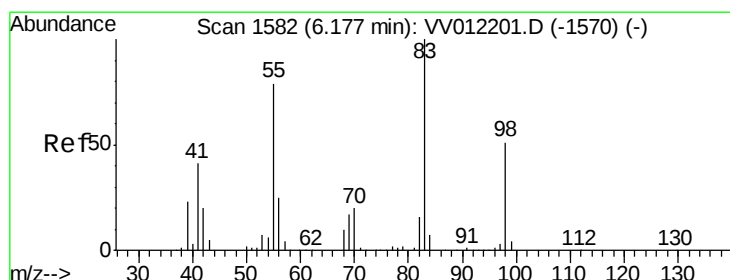
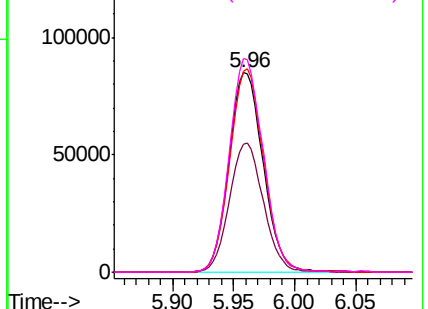
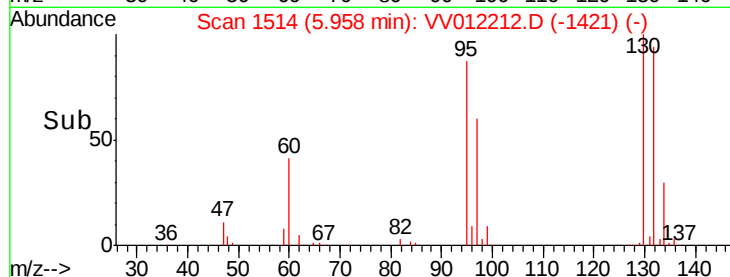


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 52.346 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

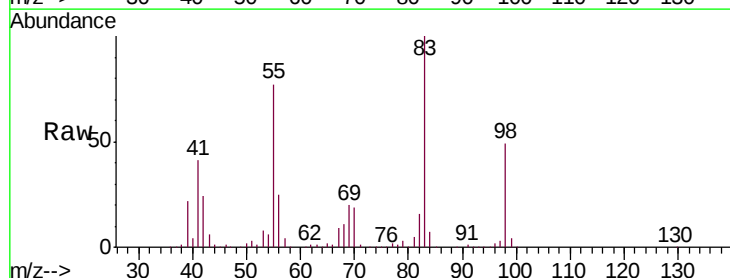
Tgt Ion: 83 Resp: 273086

Ion Ratio Lower Upper

83 100

55 76.2 60.7 91.1

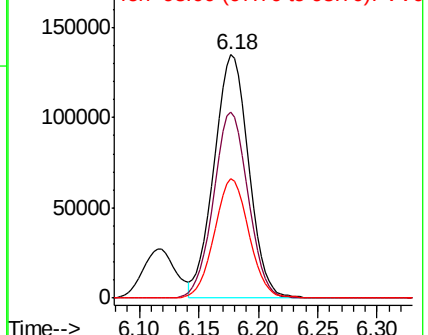
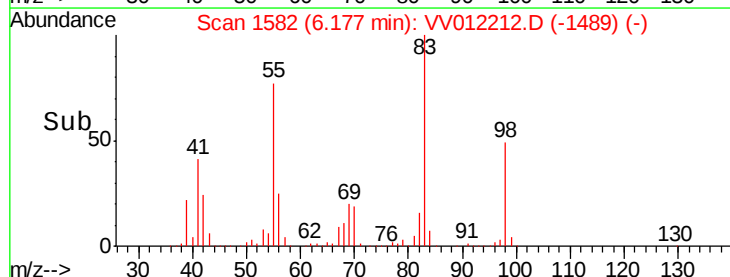
98 48.7 40.1 60.1

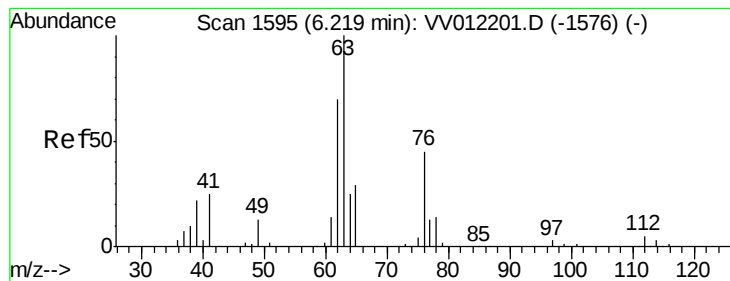


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 54.835 ug/L

RT: 6.22 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

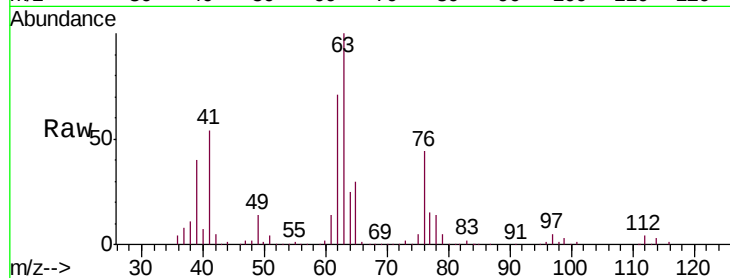
VSTD05075

Tgt Ion: 63 Resp: 169901

Ion Ratio Lower Upper

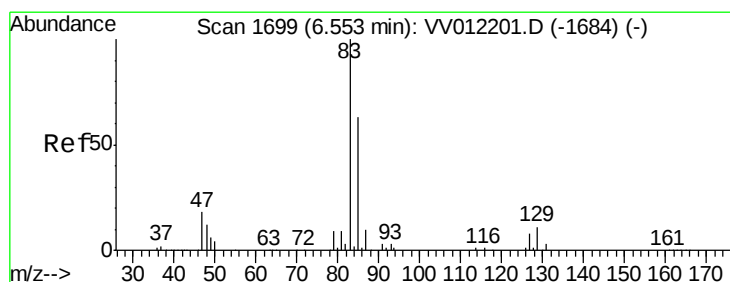
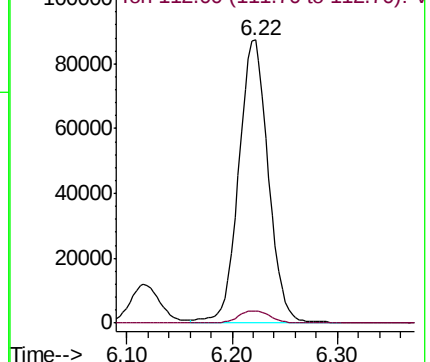
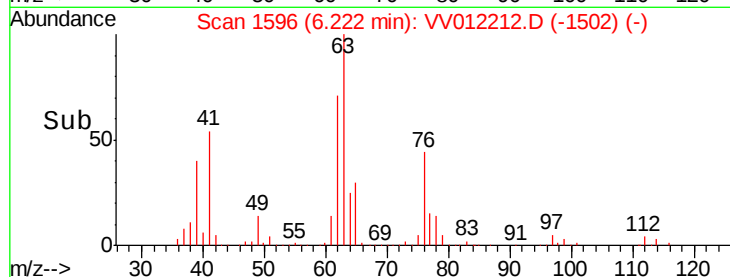
63 100

112 4.8 4.0 6.0



Abundance Ion 63.00 (62.70 to 63.70): VV012212.D (-1502) (-)

Ion 112.00 (111.70 to 112.70): VV012212.D (-1502) (-)



#38

Bromodichloromethane

Concen: 54.315 ug/L

RT: 6.56 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

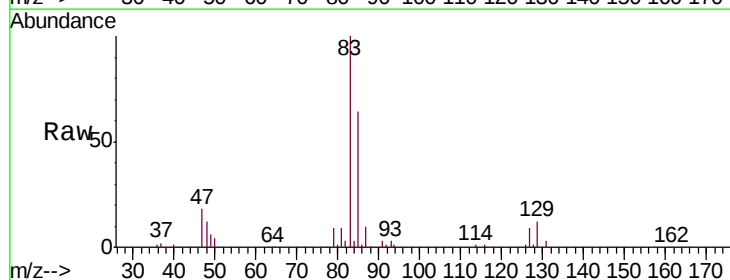
Tgt Ion: 83 Resp: 225775

Ion Ratio Lower Upper

83 100

85 64.2 44.2 82.0

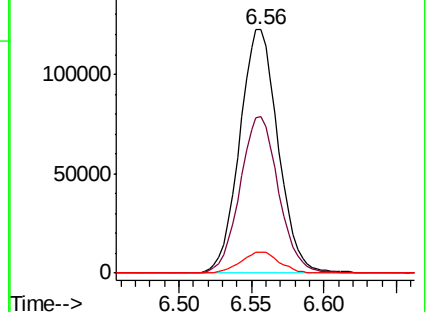
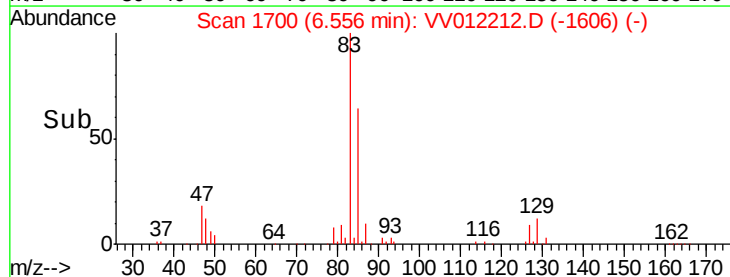
127 8.7 6.7 10.1

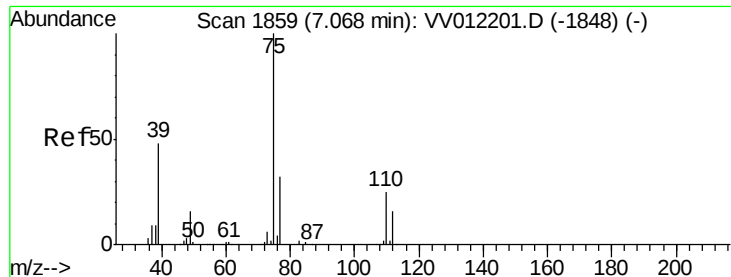


Abundance Ion 83.00 (82.70 to 83.70): VV012212.D (-1606) (-)

Ion 85.00 (84.70 to 85.70): VV012212.D (-1606) (-)

Ion 127.00 (126.70 to 127.70): VV012212.D (-1606) (-)

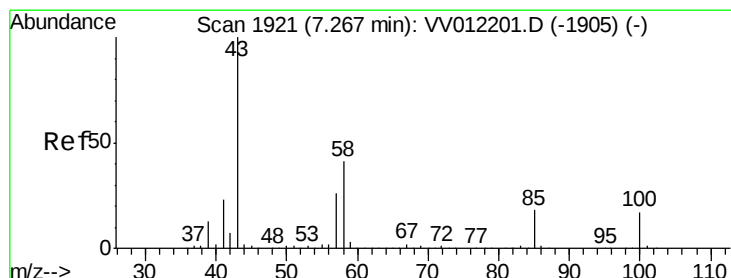
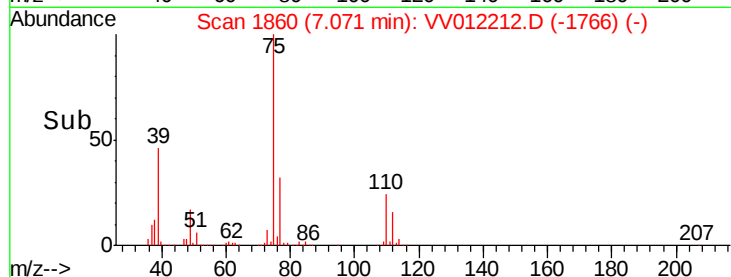
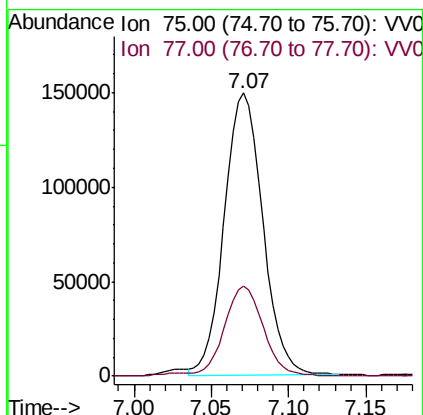
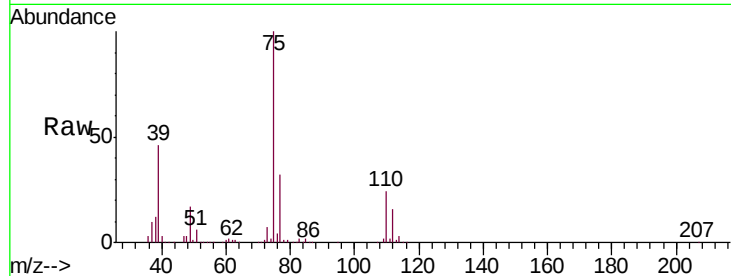




#39
 cis-1,3-Dichloropropene
 Concen: 52.918 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012212.D
 Acq: 12 Aug 2019 18:53

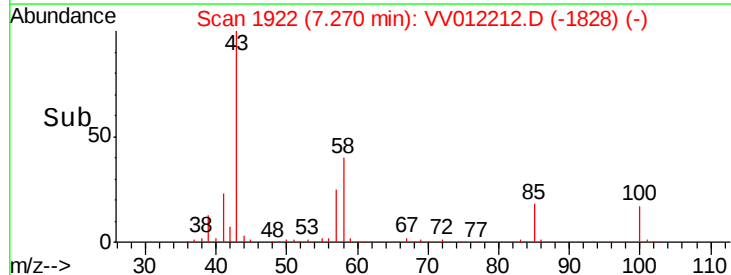
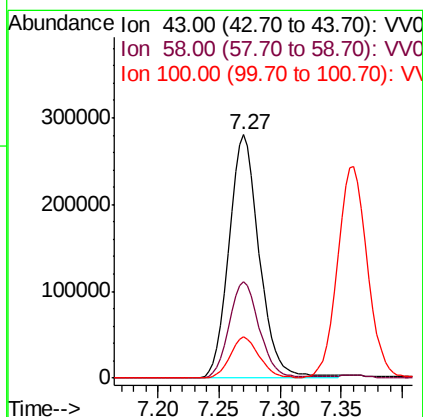
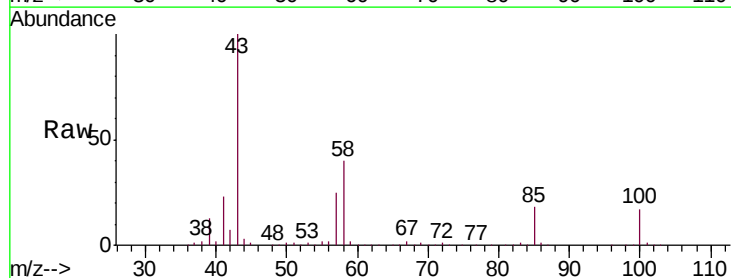
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

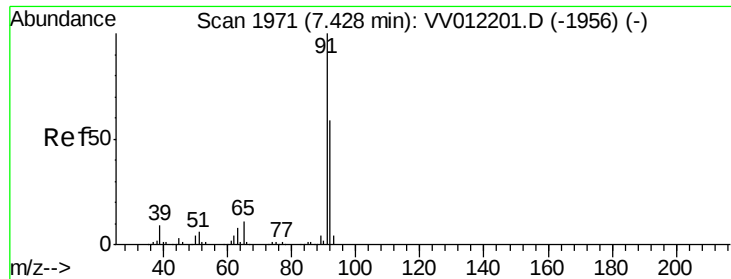
Tgt Ion: 75 Resp: 257909
 Ion Ratio Lower Upper
 75 100
 77 31.9 22.6 42.0



#40
 4-Methyl-2-pentanone
 Concen: 114.248 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012212.D
 Acq: 12 Aug 2019 18:53

Tgt Ion: 43 Resp: 487221
 Ion Ratio Lower Upper
 43 100
 58 39.6 32.3 48.5
 100 16.4 13.2 19.8





#42

Toluene

Concen: 54.383 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

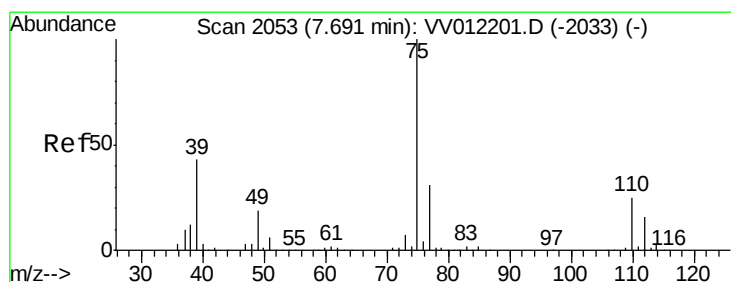
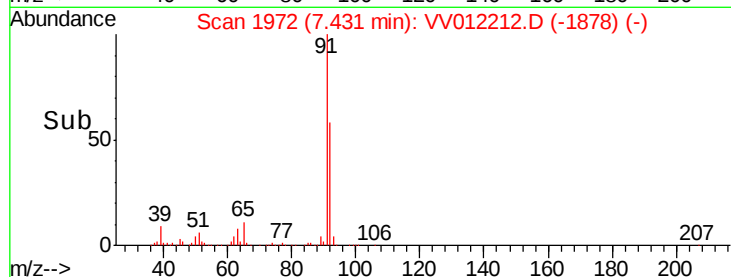
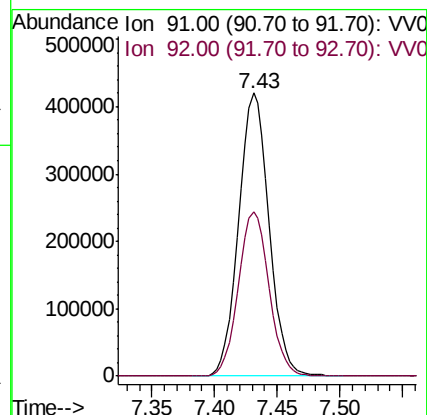
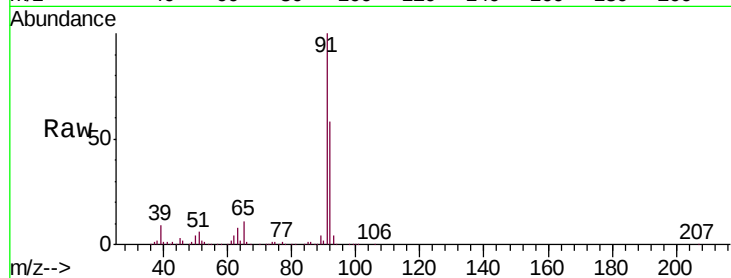
VSTD05075

Tgt Ion: 91 Resp: 707613

Ion Ratio Lower Upper

91 100

92 58.1 41.4 76.8



#44

trans-1,3-Dichloropropene

Concen: 53.877 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012212.D

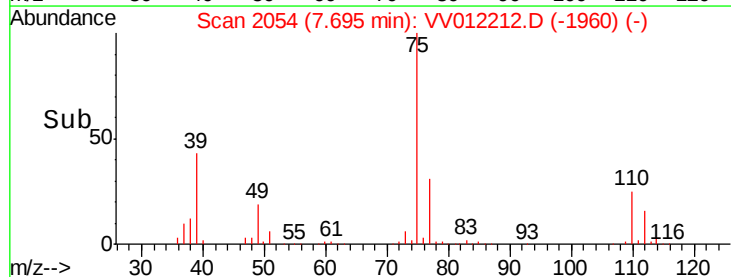
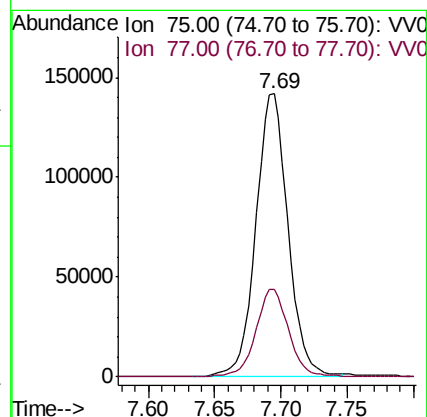
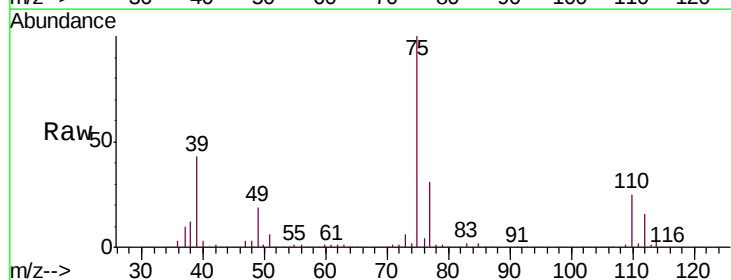
Acq: 12 Aug 2019 18:53

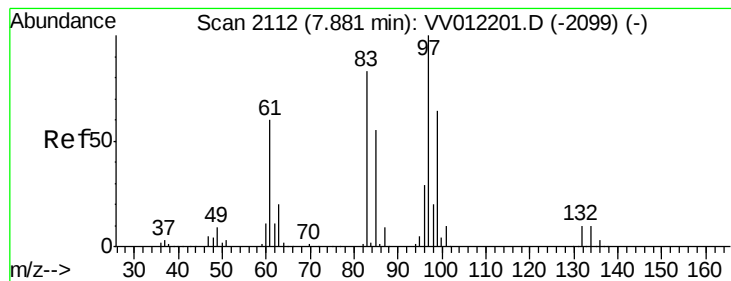
Tgt Ion: 75 Resp: 239551

Ion Ratio Lower Upper

75 100

77 30.9 22.0 40.8





#45

1,1,2-Trichloroethane

Concen: 53.559 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

Tgt Ion: 97 Resp: 163429

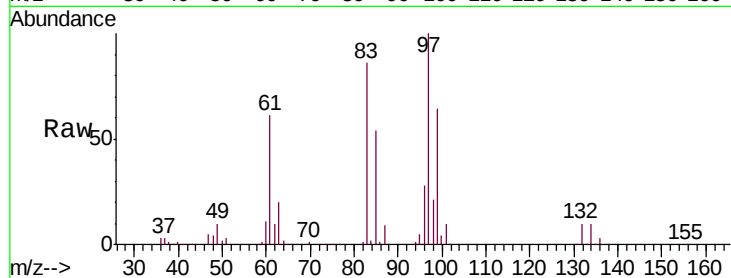
Ion Ratio Lower Upper

97 100

99 63.9 44.5 82.7

83 85.9 57.8 107.4

85 54.4 38.4 71.4



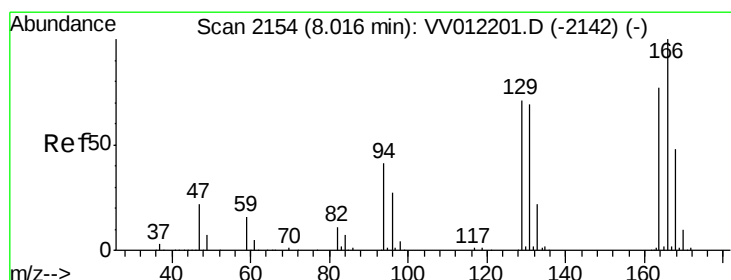
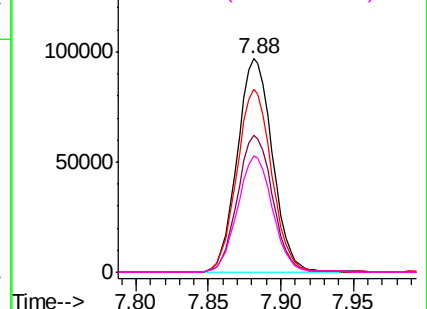
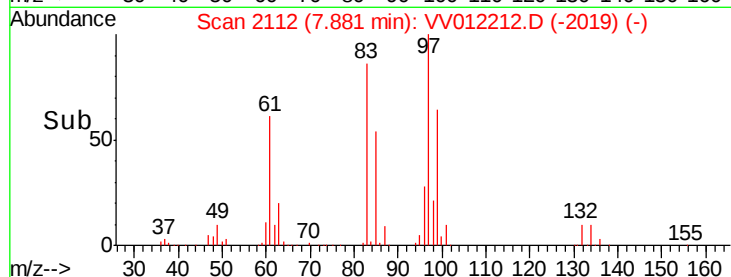
Abundance

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: 50.178 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Tgt Ion: 164 Resp: 137757

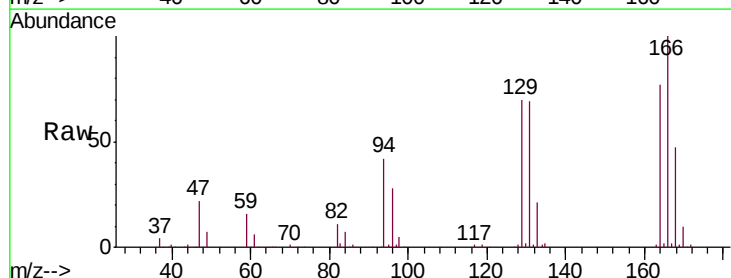
Ion Ratio Lower Upper

164 100

129 91.1 64.1 119.1

131 90.2 62.4 115.8

166 130.0 90.6 168.3



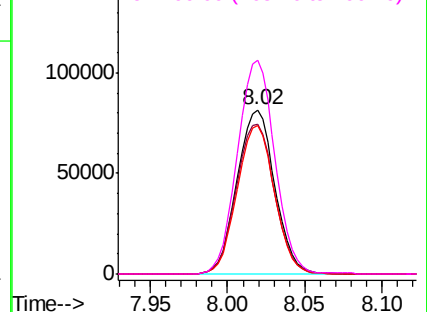
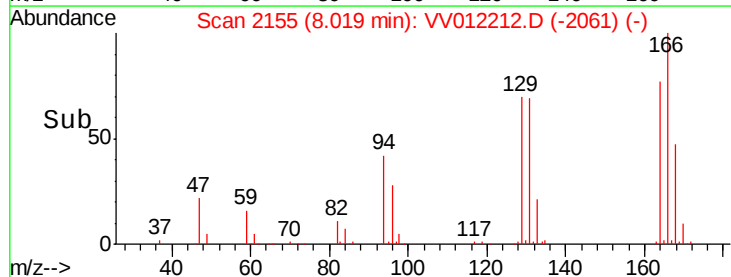
Abundance

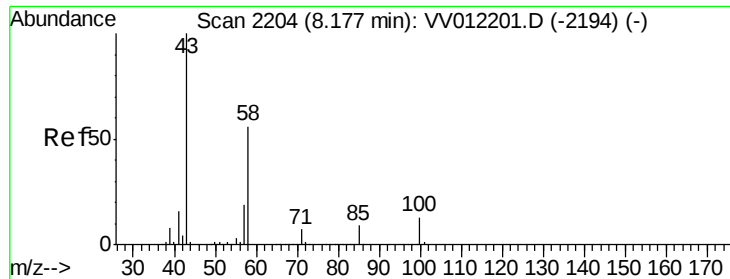
Ion 164.00 (163.70 to 164.70): V

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

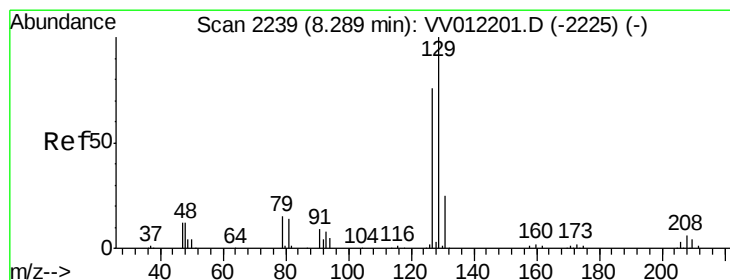
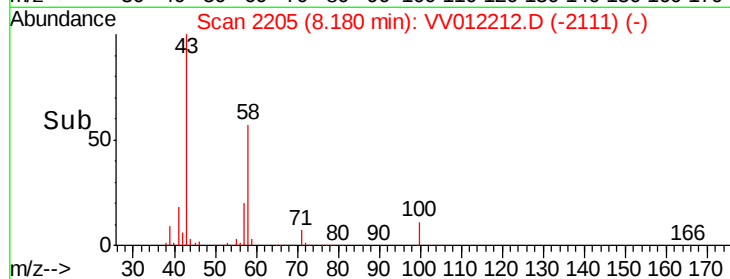
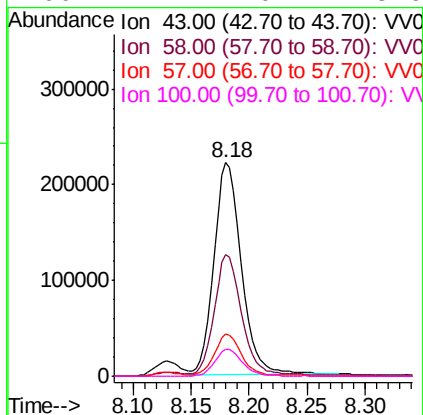
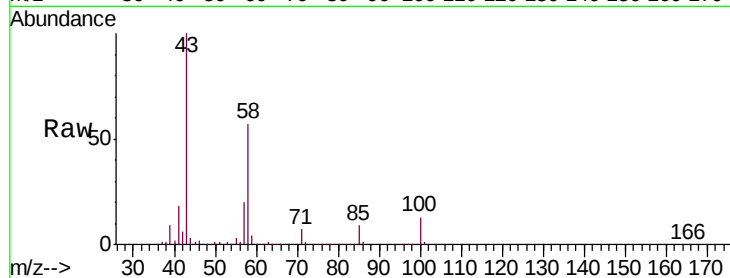




#48
2-Hexanone
Concen: 105.633 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV012212.D
Acq: 12 Aug 2019 18:53

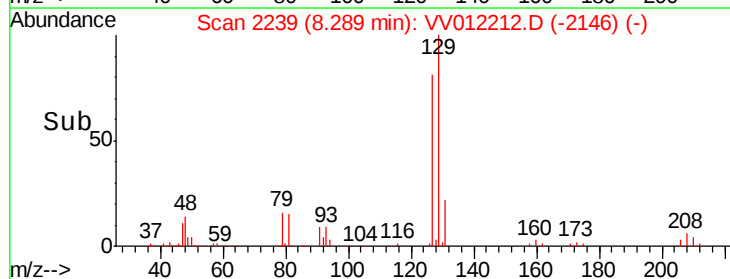
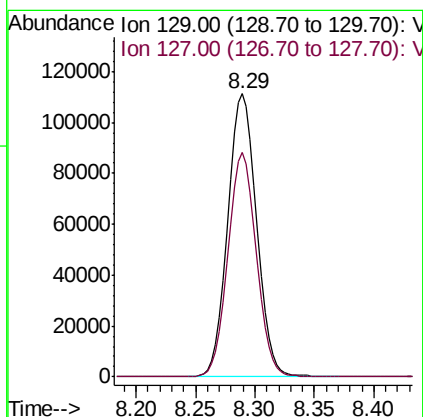
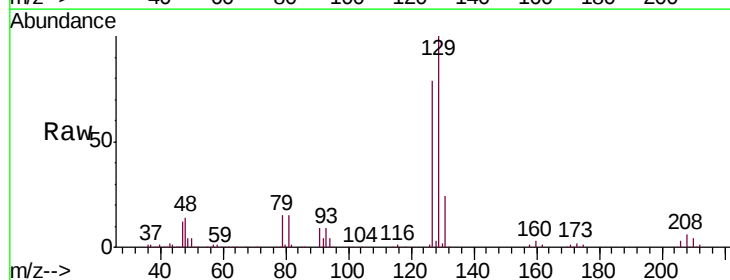
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

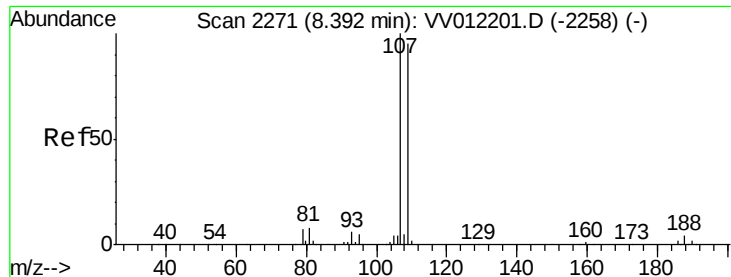
Tgt Ion:	43	Resp:	370442
Ion	Ratio	Lower	Upper
43	100		
58	55.7	43.5	65.3
57	18.6	15.1	22.7
100	12.7	10.4	15.6



#49
Dibromochloromethane
Concen: 54.494 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012212.D
Acq: 12 Aug 2019 18:53

Tgt Ion:	129	Resp:	187412
Ion	Ratio	Lower	Upper
129	100		
127	79.2	53.3	98.9

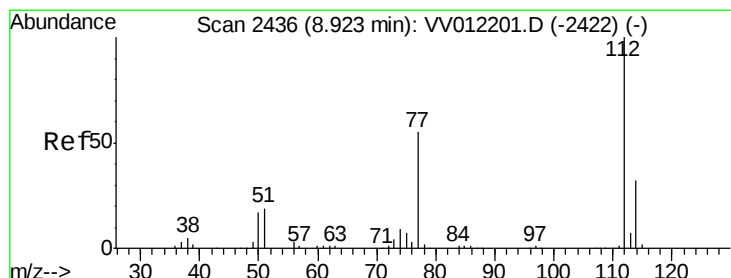
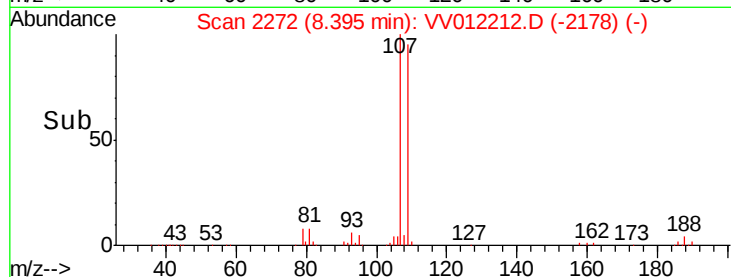
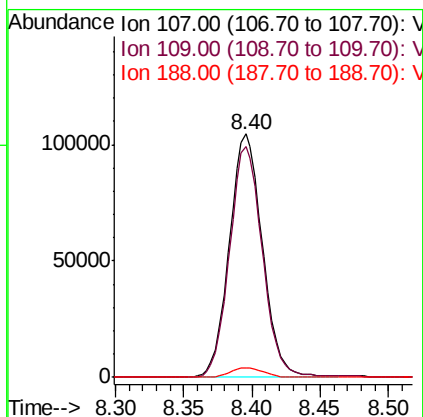
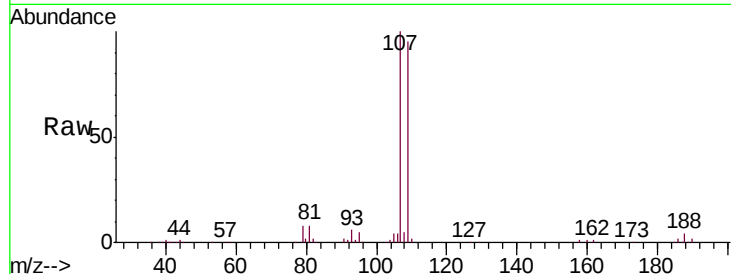




#50
 1,2-Dibromoethane
 Concen: 54.002 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV012212.D
 Acq: 12 Aug 2019 18:53

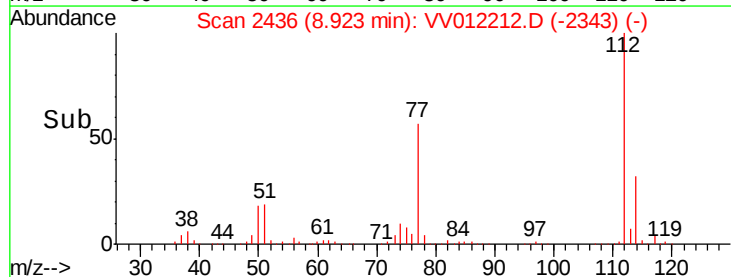
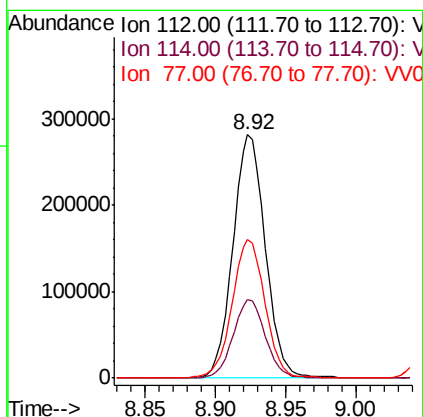
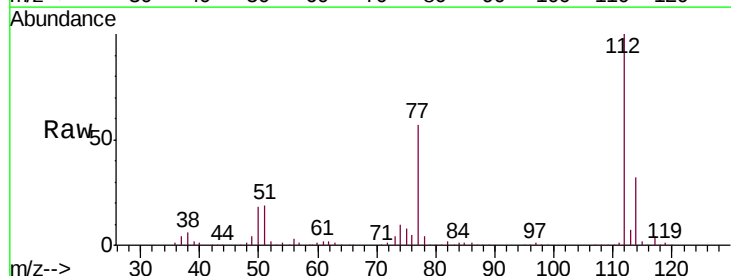
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

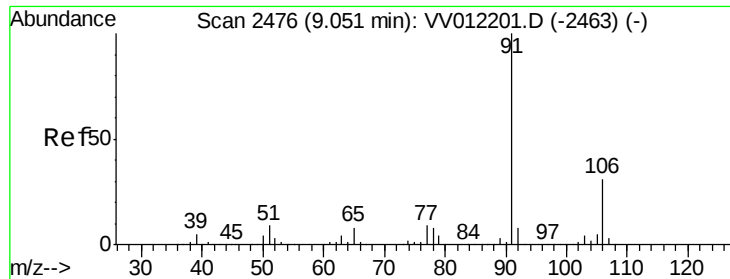
Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.0	66.4	123.4
188	4.1	3.0	4.6



#51
 Chlorobenzene
 Concen: 52.641 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV012212.D
 Acq: 12 Aug 2019 18:53

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.4	22.5	41.9
77	57.0	44.4	66.6

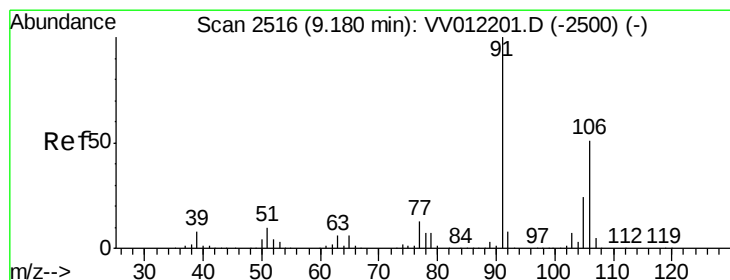
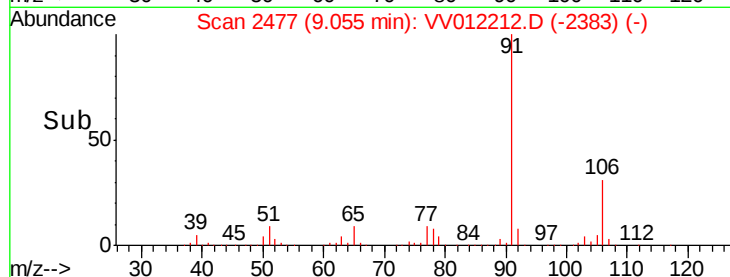
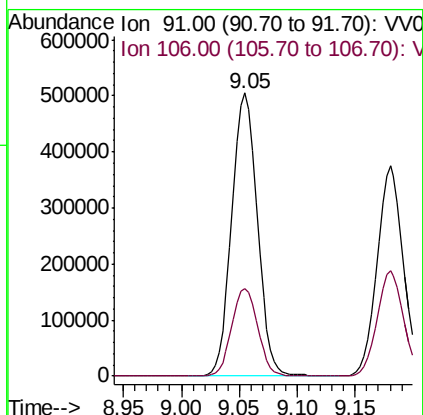
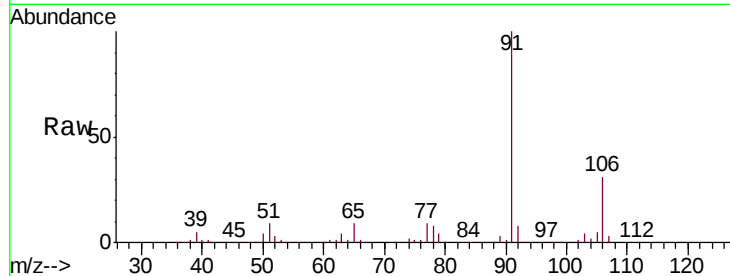




#52
Ethylbenzene
Concen: 54.134 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV012212.D
Acq: 12 Aug 2019 18:53

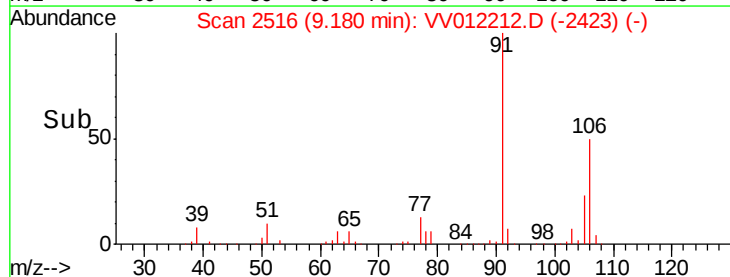
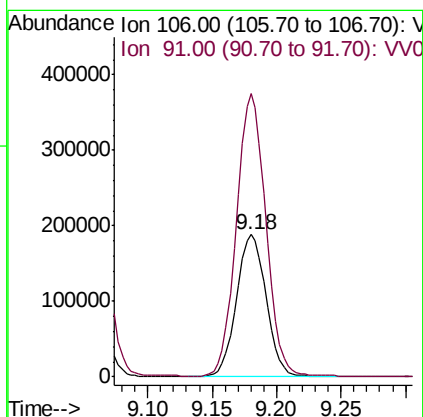
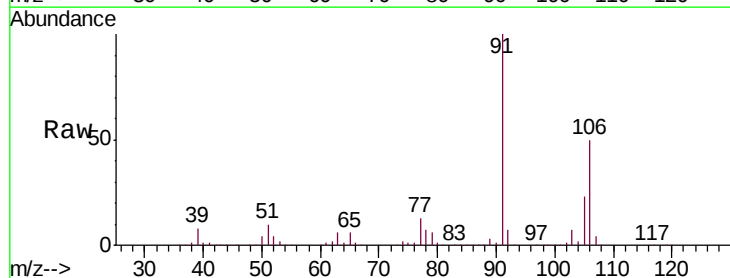
Instrument :
MSVOA_V
ClientSampleId :
VSTD05075

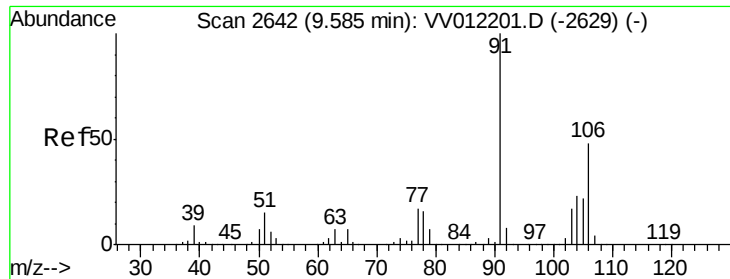
Tgt Ion: 91 Resp: 775376
Ion Ratio Lower Upper
91 100
106 31.1 21.8 40.4



#53
m,p-Xylene
Concen: 54.197 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV012212.D
Acq: 12 Aug 2019 18:53

Tgt Ion: 106 Resp: 298850
Ion Ratio Lower Upper
106 100
91 199.1 138.0 256.4





#54

o-xylene

Concen: 55.135 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

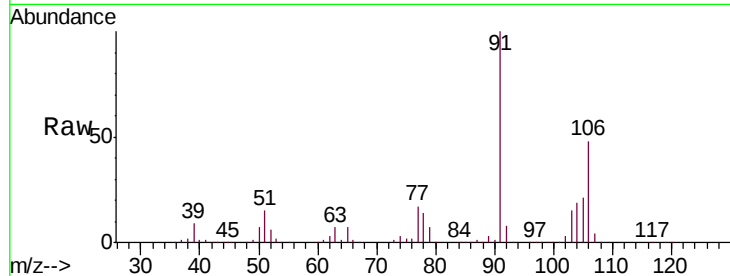
VSTD05075

Tgt Ion:106 Resp: 294562

Ion Ratio Lower Upper

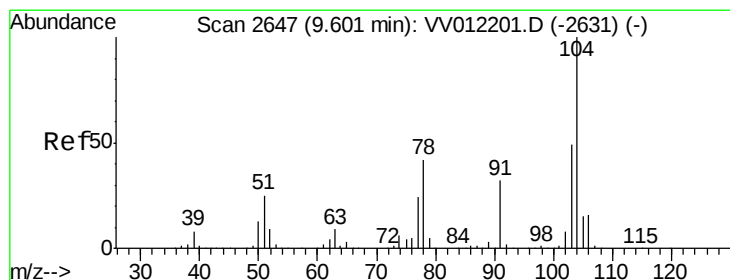
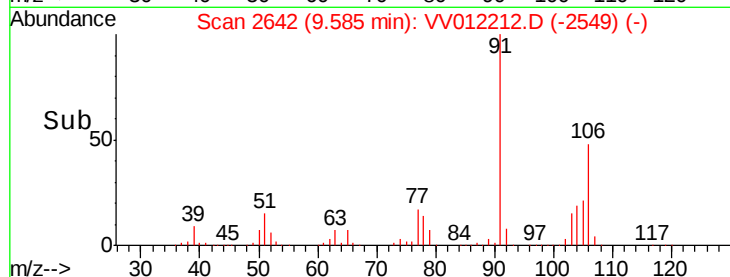
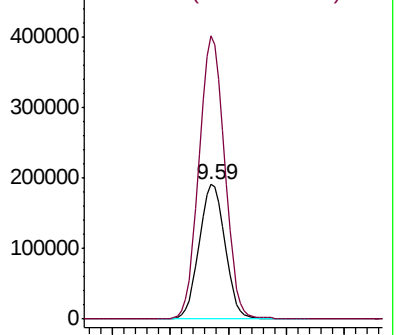
106 100

91 209.9 146.5 272.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 55.309 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV012212.D

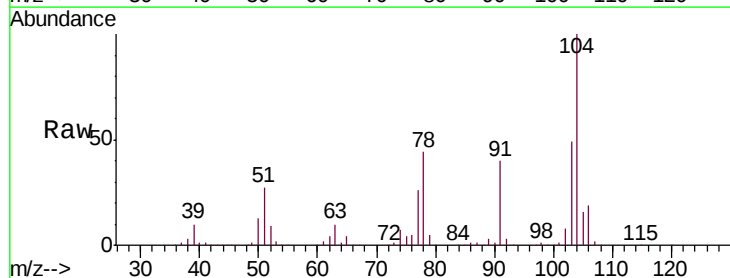
Acq: 12 Aug 2019 18:53

Tgt Ion:104 Resp: 506846

Ion Ratio Lower Upper

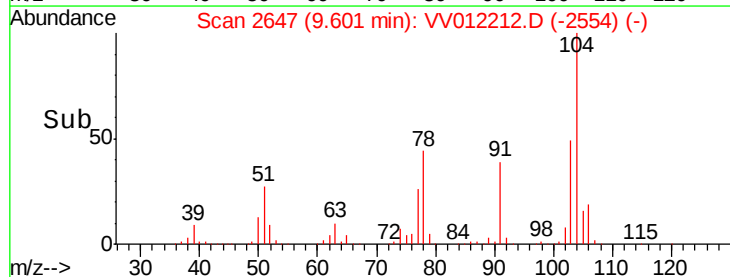
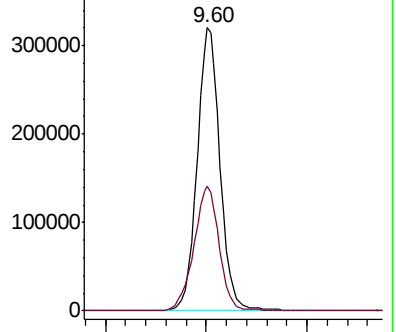
104 100

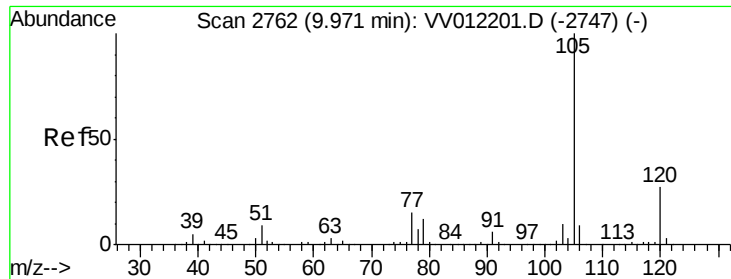
78 43.9 29.5 54.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 54.610 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

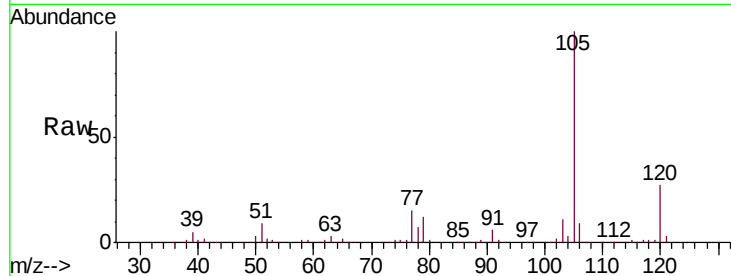
Tgt Ion:105 Resp: 765823

Ion Ratio Lower Upper

105 100

120 26.6 21.8 32.8

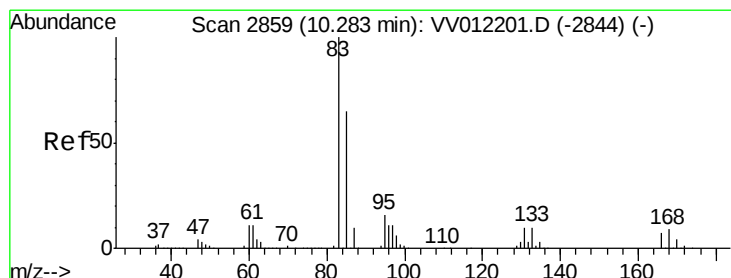
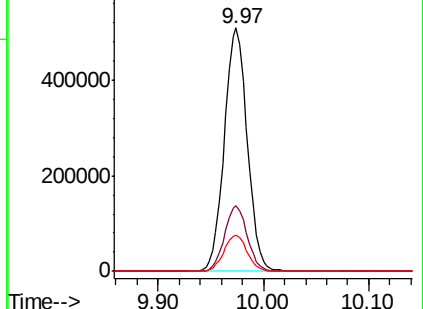
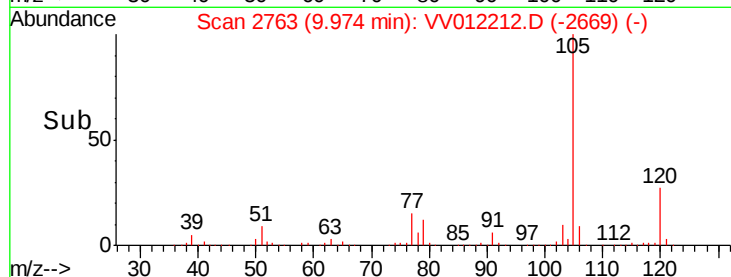
77 15.1 12.0 18.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 54.056 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

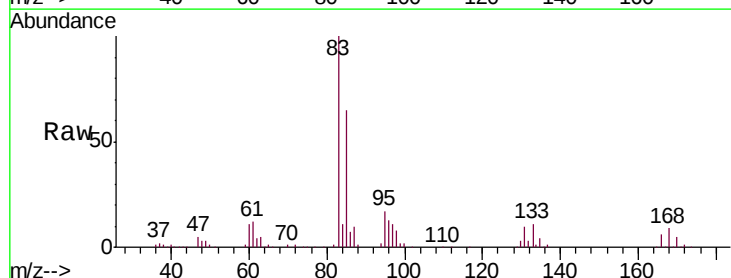
Tgt Ion: 83 Resp: 271083

Ion Ratio Lower Upper

83 100

85 64.7 45.3 84.1

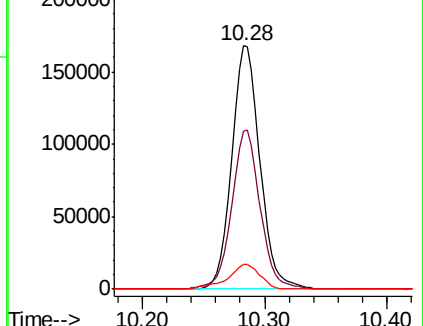
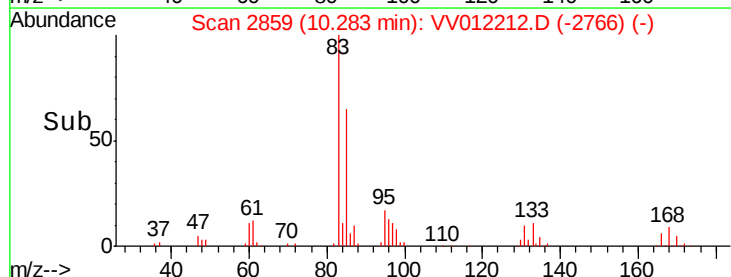
131 9.9 8.4 12.6

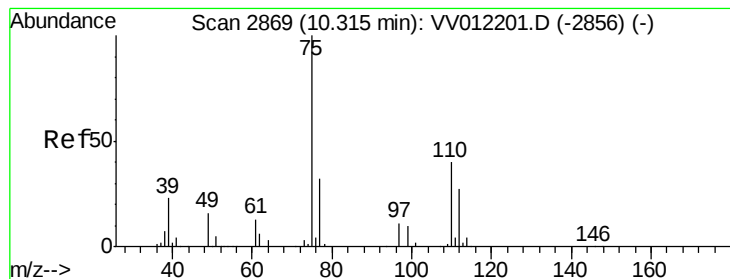


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 54.705 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

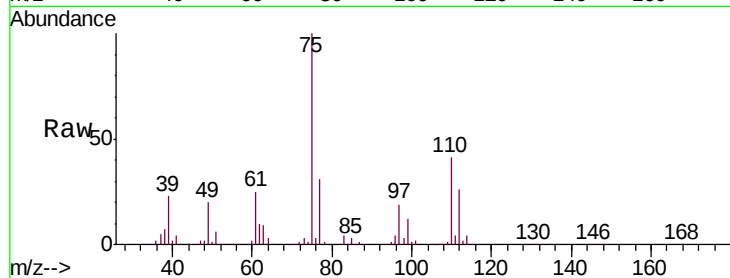
VSTD05075

Tgt Ion: 75 Resp: 213390

Ion Ratio Lower Upper

75 100

77 31.7 25.4 38.2



Abundance Ion 75.00 (74.70 to 75.70): VV012201.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV012201.D (-2856) (-)

10.32

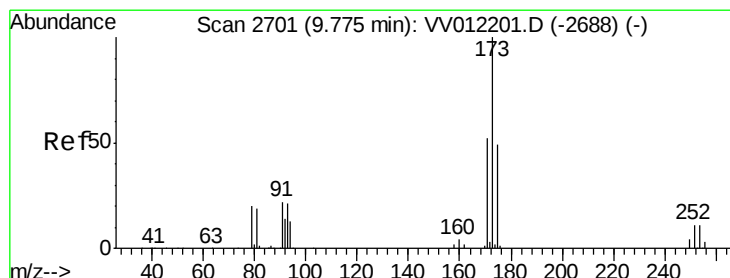
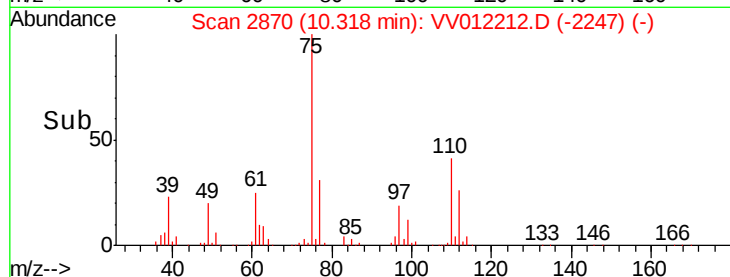
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 54.064 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

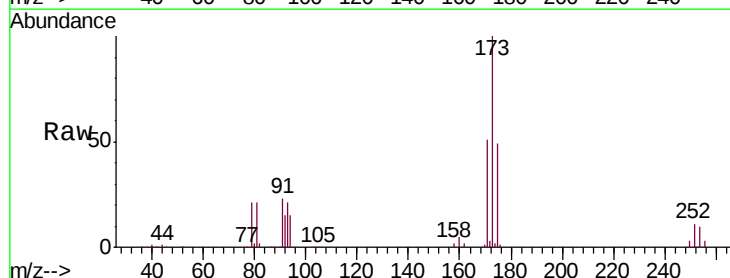
Tgt Ion: 173 Resp: 134270

Ion Ratio Lower Upper

173 100

175 49.0 39.0 58.4

254 9.9 7.8 11.8



Abundance Ion 173.00 (172.70 to 173.70): VV012201.D (-2688) (-)

Ion 175.00 (174.70 to 175.70): VV012201.D (-2688) (-)

Ion 254.00 (253.70 to 254.70): VV012201.D (-2688) (-)

9.77

100000

80000

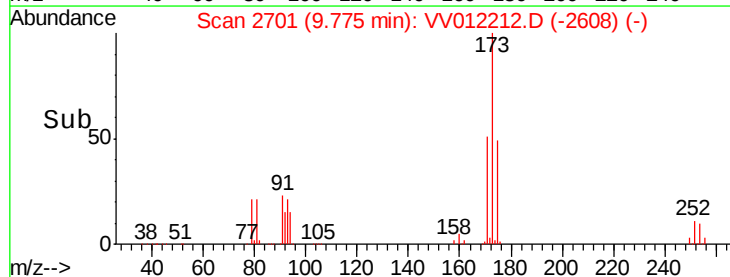
60000

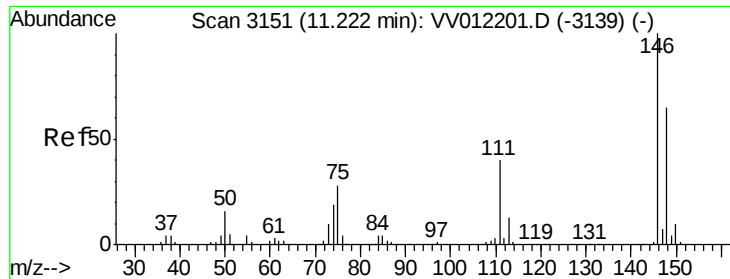
40000

20000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 52.144 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

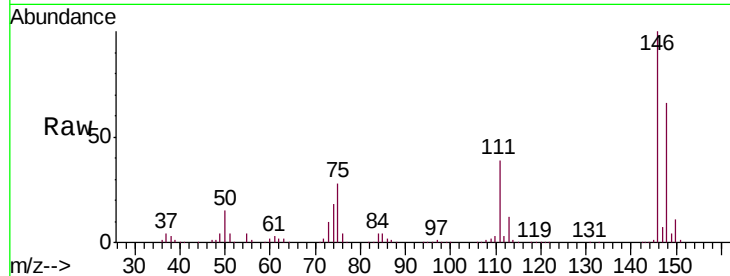
Tgt Ion:146 Resp: 360085

Ion Ratio Lower Upper

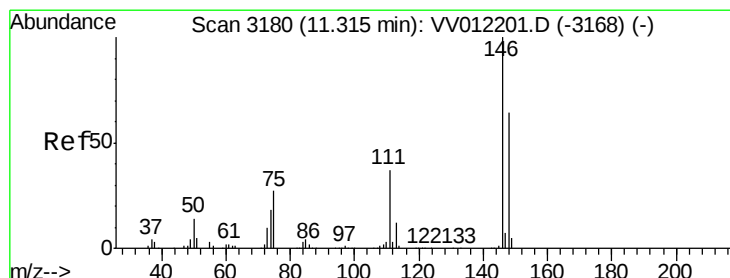
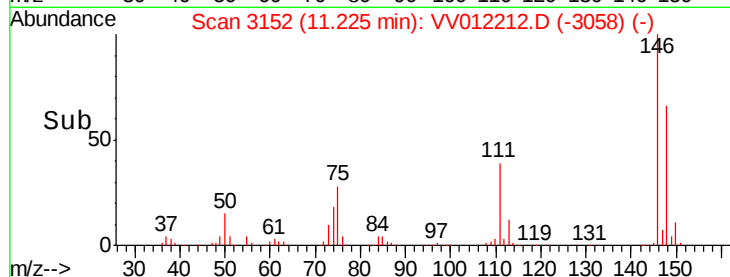
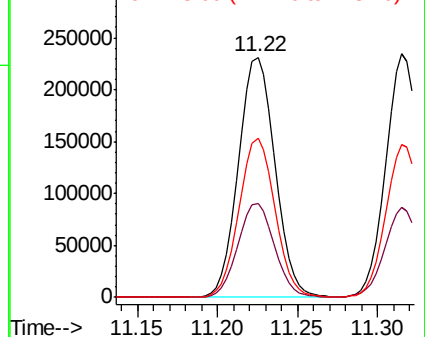
146 100

111 39.2 27.7 51.5

148 66.0 45.5 84.5



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



#63

1,4-Dichlorobenzene

Concen: 50.899 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

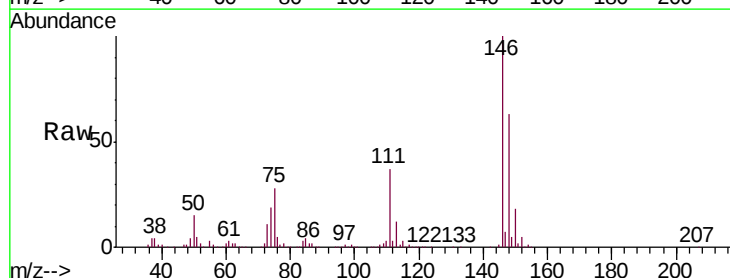
Tgt Ion:146 Resp: 359100

Ion Ratio Lower Upper

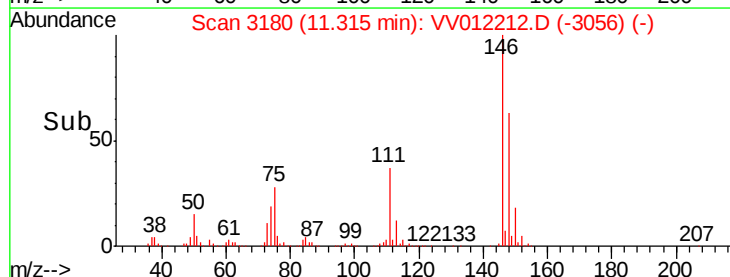
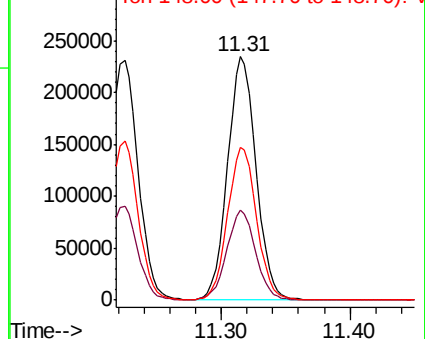
146 100

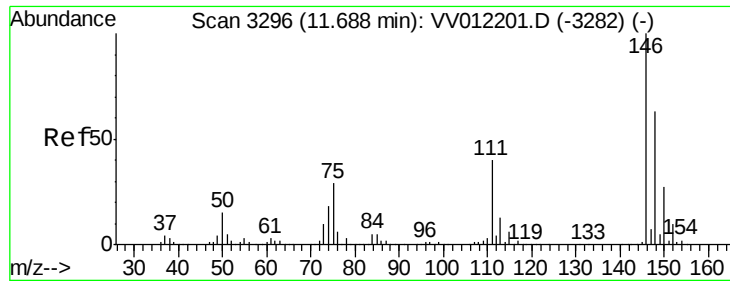
111 36.9 25.8 48.0

148 63.0 44.8 83.2



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V

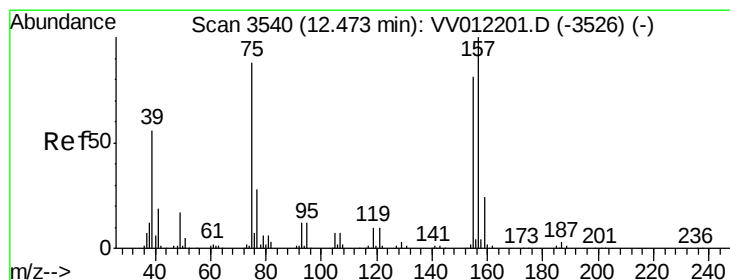
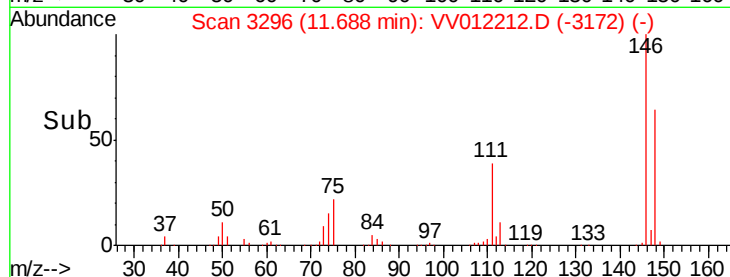
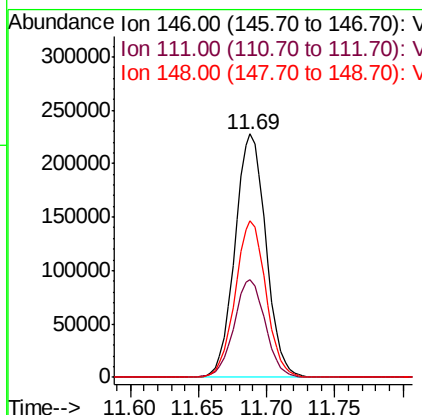
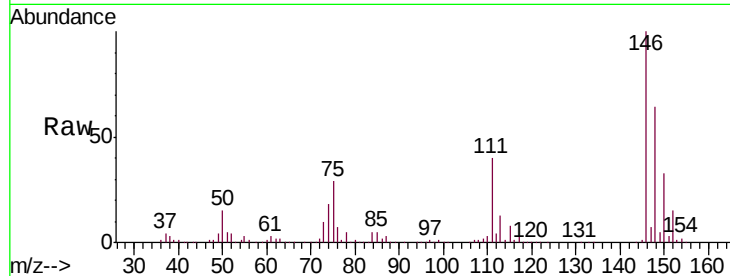




#65
 1,2-Dichlorobenzene
 Concen: 51.895 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012212.D
 Acq: 12 Aug 2019 18:53

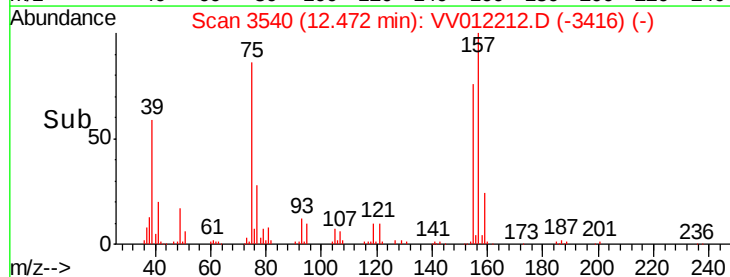
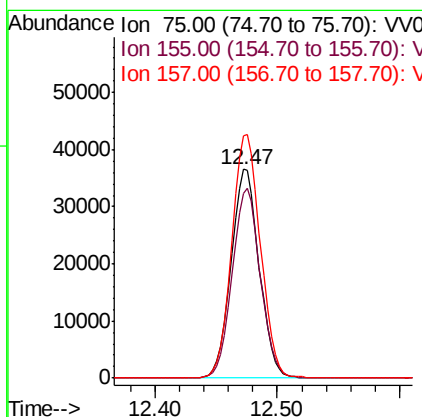
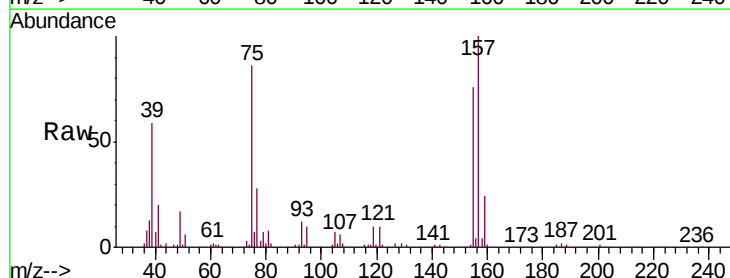
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD05075

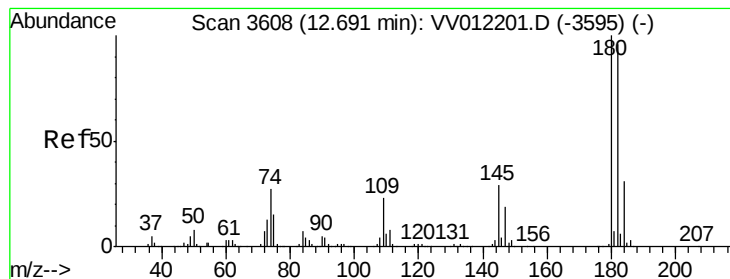
Tgt Ion: 146 Resp: 358832
 Ion Ratio Lower Upper
 146 100
 111 40.0 31.8 47.6
 148 64.4 50.6 76.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 55.152 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV012212.D
 Acq: 12 Aug 2019 18:53

Tgt Ion: 75 Resp: 58708
 Ion Ratio Lower Upper
 75 100
 155 88.5 73.9 110.9
 157 115.8 91.2 136.8





#67

1,3,5-Trichlorobenzene

Concen: 51.720 ug/L

RT: 12.69 min Scan# 3608

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTD05075

Tgt Ion:180 Resp: 271048

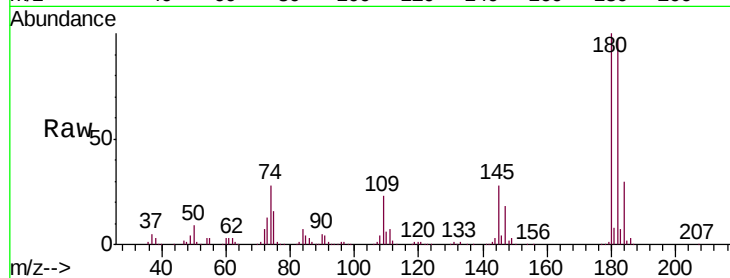
Ion Ratio Lower Upper

180 100

182 96.3 76.0 114.0

184 30.5 24.0 36.0

145 28.9 23.0 34.6

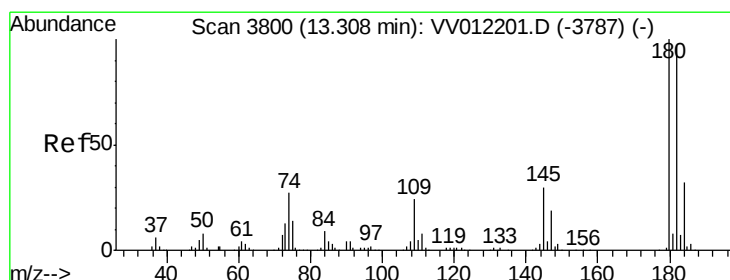
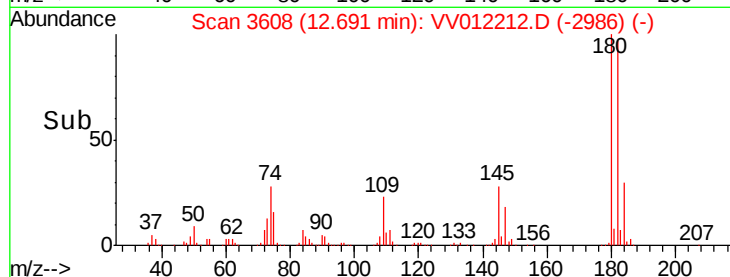
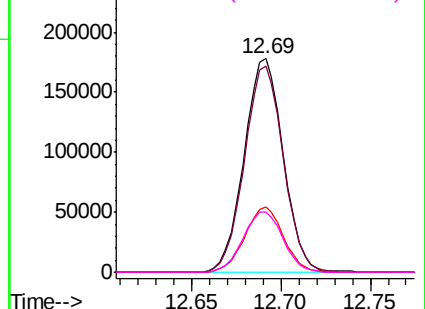


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 53.653 ug/L

RT: 13.31 min Scan# 3800

Delta R.T. -0.00 min

Lab File: VV012212.D

Acq: 12 Aug 2019 18:53

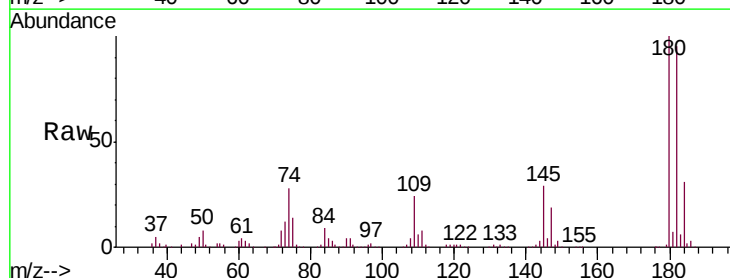
Tgt Ion:180 Resp: 232076

Ion Ratio Lower Upper

180 100

182 95.1 76.6 115.0

145 29.9 23.8 35.6



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

