

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081219\
 Data File : VV012202.D
 Acq On : 12 Aug 2019 12:09
 Operator : SY/MD
 Sample : VSTDIC100
 Misc : 5mL/MSVOA V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 12 14:04:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM081219WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Aug 12 14:00:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	481737	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	460778	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	247026	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	339028	167.26	ug/L	0.00
7) Chloroethane-d5	1.58	69	292079	204.84	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	621362	162.77	ug/L	0.00
21) 2-Butanone-d5	3.92	46	597160	482.17	ug/L	0.00
24) Chloroform-d	4.40	84	767480	176.20	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	485186	189.00	ug/L	0.00
32) Benzene-d6	5.10	84	1577379	185.17	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	492146	202.08	ug/L	0.00
41) Toluene-d8	7.36	98	1459807	182.14	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.66	79	254139	198.46	ug/L	0.00
47) 2-Hexanone-d5	8.13	63	477510	488.49	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	722142	214.40	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	616340	177.99	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	420958	101.970	ug/L	99
3) Chloromethane	1.25	50	389844	126.960	ug/L	99
5) Vinyl chloride	1.32	62	396051	136.541	ug/L	100
6) Bromomethane	1.53	94	221196	132.012	ug/L	100
8) Chloroethane	1.60	64	226161	145.805	ug/L	99
9) Trichlorofluoromethane	1.77	101	514637	110.380	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	290124	127.174	ug/L	99
12) 1,1-Dichloroethene	2.14	96	276390	131.266	ug/L	96
13) Acetone	2.18	43	429636	305.223	ug/L	99
14) Carbon disulfide	2.32	76	884008	120.109	ug/L	99
15) Methyl Acetate	2.45	43	370395	134.873	ug/L	100
16) Methylene chloride	2.53	84	344281	112.050	ug/L	98
17) trans-1,2-Dichloroethene	2.79	96	326514	112.367	ug/L	100
18) Methyl tert-butyl Ether	2.80	73	1021710	110.987	ug/L	99
19) 1,1-Dichloroethane	3.23	63	599257	115.835	ug/L	100
20) cis-1,2-Dichloroethene	3.96	96	371600	113.103	ug/L	99
22) 2-Butanone	4.01	43	574356	281.417	ug/L	99
23) Bromochloromethane	4.30	128	189298	106.549	ug/L	97
25) Chloroform	4.42	83	620491	108.481	ug/L	99
27) 1,2-Dichloroethane	5.18	62	471894	106.119	ug/L	99
29) Cyclohexane	4.73	56	564382	125.683	ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	537849	101.809	ug/L	100
31) Carbon tetrachloride	4.88	117	485618	99.036	ug/L	100
33) Benzene	5.15	78	1371003	115.655	ug/L	100
34) Trichloroethene	5.96	95	351580	110.231	ug/L	99
35) Methylcyclohexane	6.18	83	598277	117.347	ug/L	99
37) 1,2-Dichloropropane	6.22	63	343832	119.523	ug/L	99
38) Bromodichloromethane	6.55	83	467643	107.551	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	589560	121.466	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	1024914	274.228	ug/L	99

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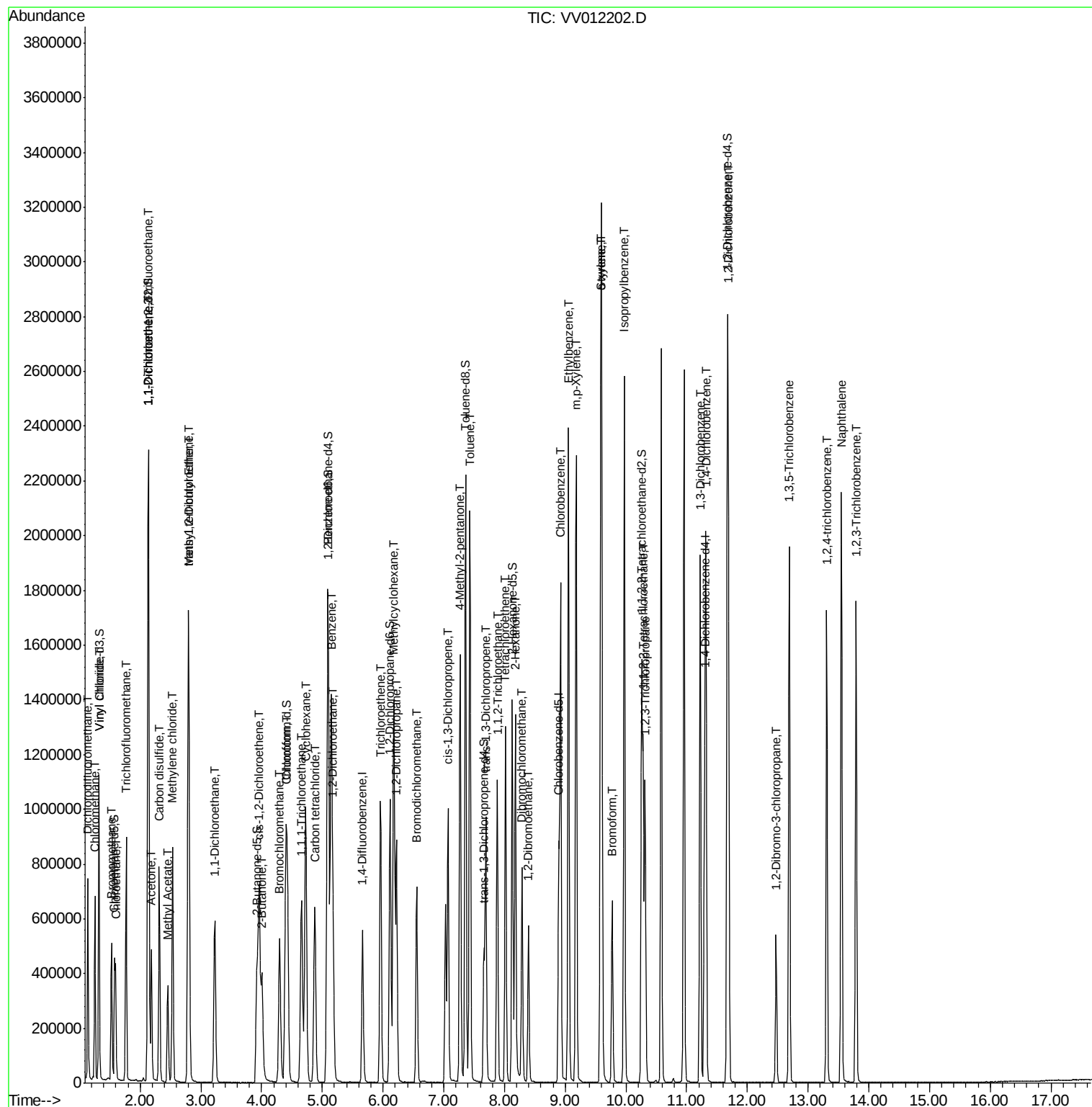
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	1478662	113.355	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	520639	118.211	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	343397	110.536	ug/L	99
46) Tetrachloroethene	8.02	164	299899	99.830	ug/L	98
48) 2-Hexanone	8.18	43	814538	283.106	ug/L	98
49) Dibromochloromethane	8.29	129	398552	103.299	ug/L	100
50) 1,2-Dibromoethane	8.40	107	370988	109.541	ug/L	100
51) Chlorobenzene	8.92	112	964382	109.211	ug/L	99
52) Ethylbenzene	9.05	91	1658004	114.147	ug/L	99
53) m,p-Xylene	9.18	106	643337	112.219	ug/L	99
54) o-xylene	9.59	106	634606	112.694	ug/L	98
55) Styrene	9.60	104	1090339	115.066	ug/L	98
56) Isopropylbenzene	9.97	105	1656154	111.673	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.28	83	570210	118.100	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	438529	114.569	ug/L	99
61) Bromoform	9.77	173	297079	97.203	ug/L	98
62) 1,3-Dichlorobenzene	11.22	146	793276	105.860	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	802010	106.632	ug/L	99
65) 1,2-Dichlorobenzene	11.69	146	787922	104.505	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.47	75	126441	109.136	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	612497	103.807	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	532785	109.296	ug/L	99
69) Naphthalene	13.55	128	1682960	123.747	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	547497	107.026	ug/L	100

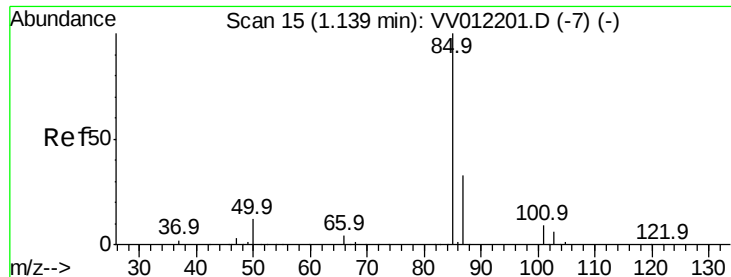
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 101.970 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

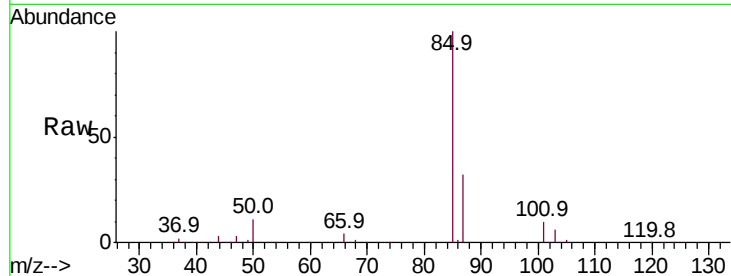
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 420958

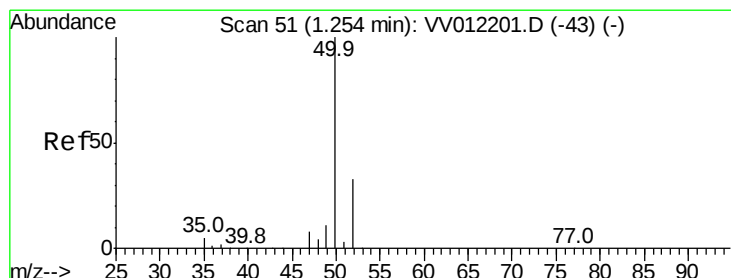
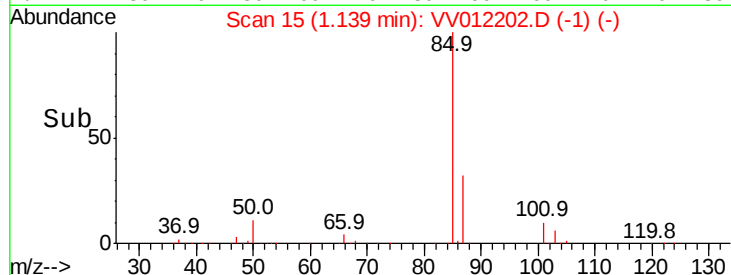
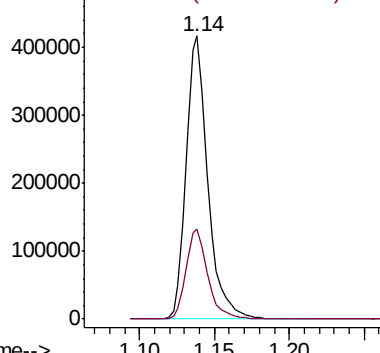
Ion Ratio Lower Upper

85 100

87 32.1 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: 126.960 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV012202.D

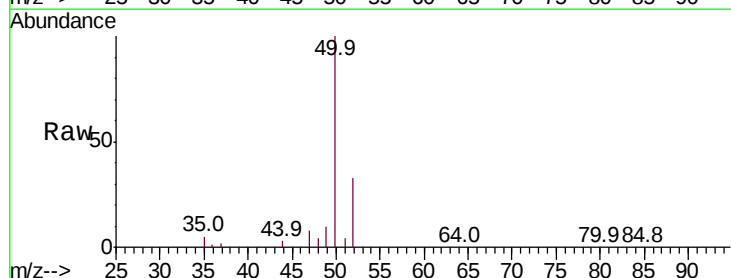
Acq: 12 Aug 2019 12:09

Tgt Ion: 50 Resp: 389844

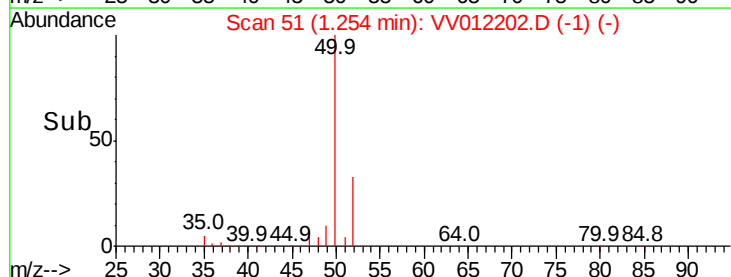
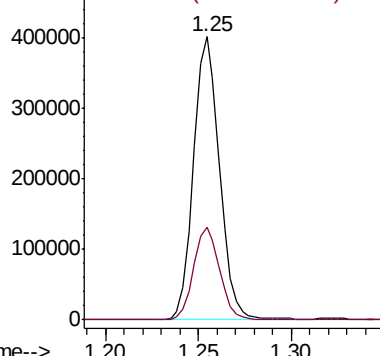
Ion Ratio Lower Upper

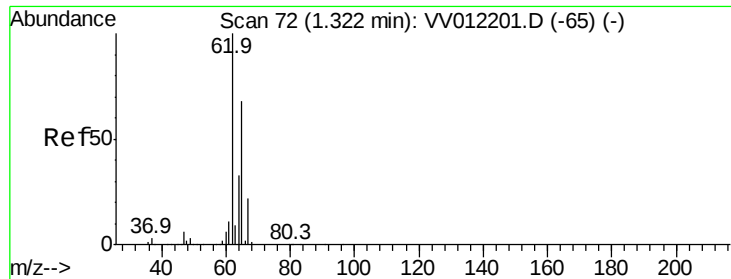
50 100

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: 136.541 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

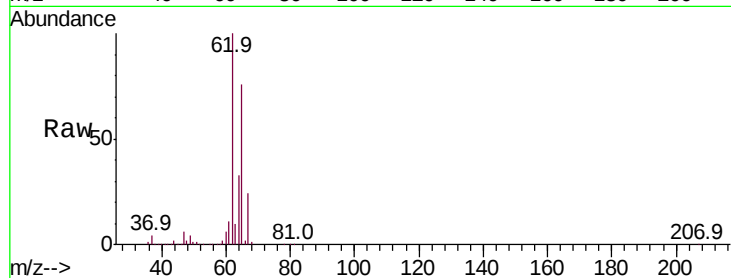
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 396051

Ion Ratio Lower Upper

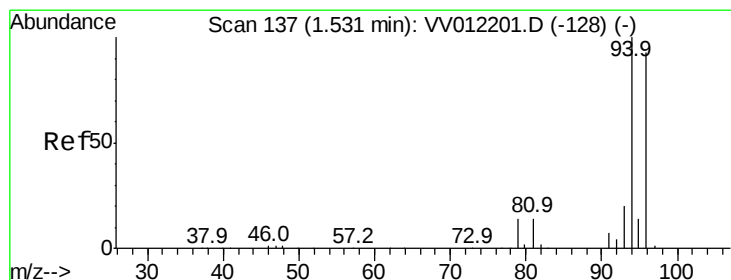
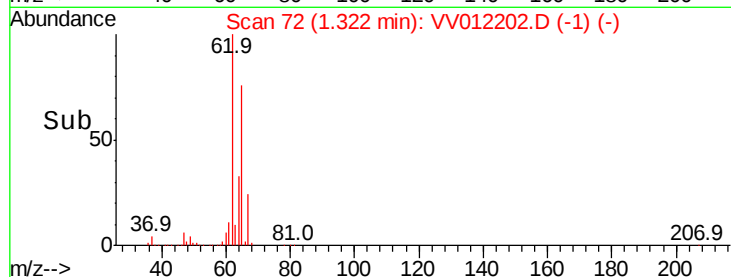
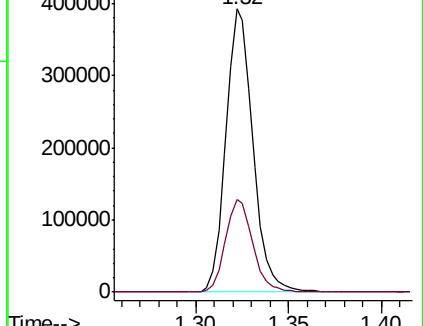
62 100

64 33.0 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: 132.012 ug/L

RT: 1.53 min Scan# 136

Delta R.T. -0.00 min

Lab File: VV012202.D

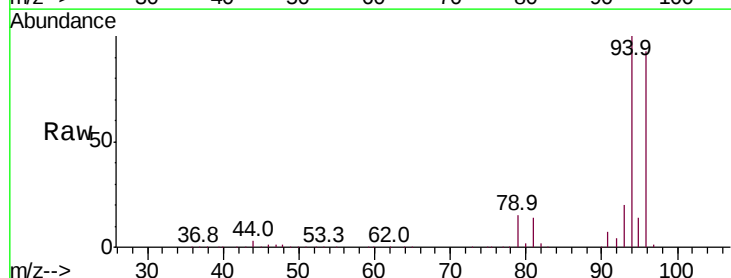
Acq: 12 Aug 2019 12:09

Tgt Ion: 94 Resp: 221196

Ion Ratio Lower Upper

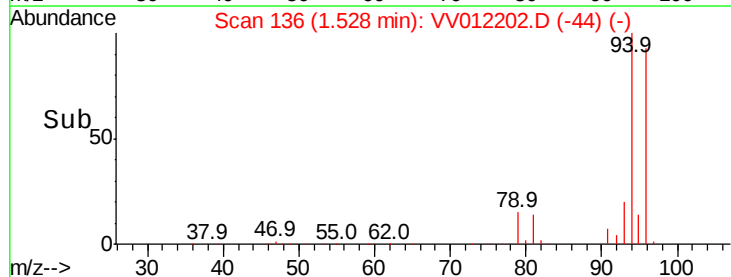
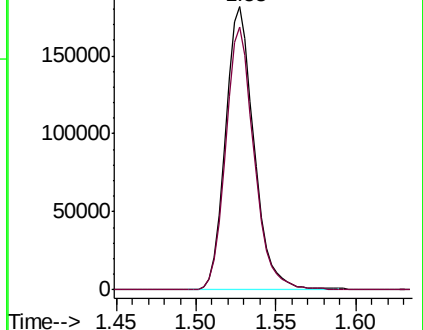
94 100

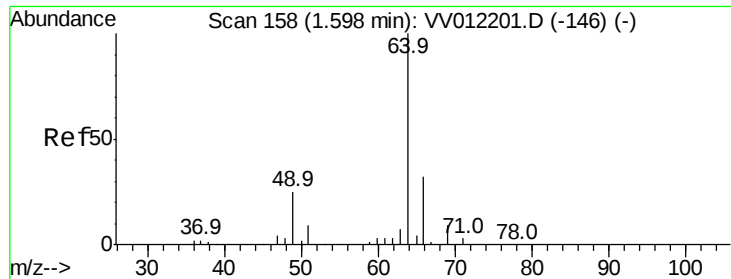
96 93.1 65.0 120.8



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 145.805 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

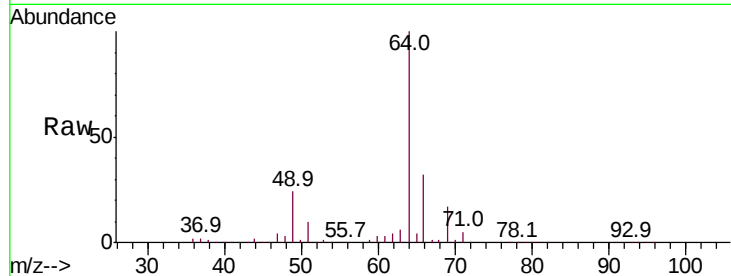
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 64 Resp: 226161

Ion Ratio Lower Upper

64 100

66 32.2 22.3 41.3



Abundance Ion 64.00 (63.70 to 64.70): VV012202.D (-157) (-)

Ion 66.00 (65.70 to 66.70): VV012202.D (-157) (-)

1.60

200000

150000

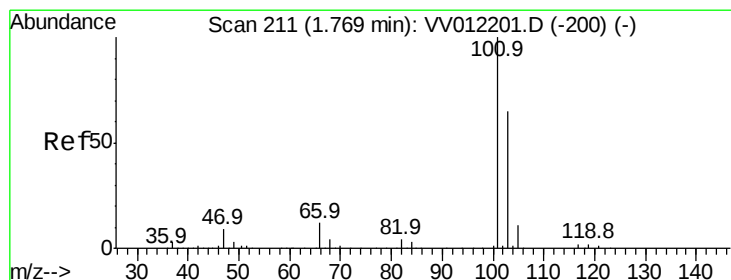
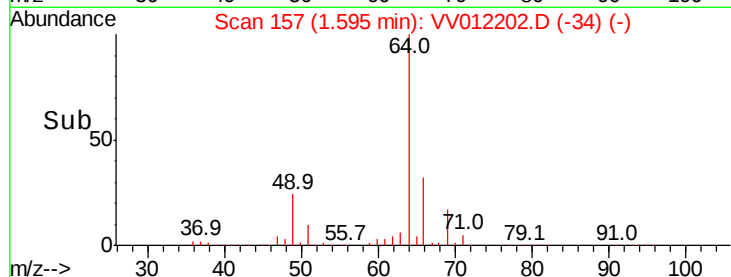
100000

50000

0

Time-->

1.55 1.60 1.65 1.70



#9

Trichlorofluoromethane

Concen: 110.380 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV012202.D

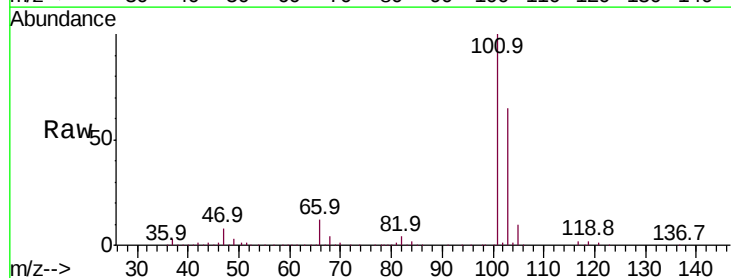
Acq: 12 Aug 2019 12:09

Tgt Ion:101 Resp: 514637

Ion Ratio Lower Upper

101 100

103 64.6 51.8 77.6



Abundance Ion 101.00 (100.70 to 101.70): VV012202.D (-211) (-)

Ion 103.00 (102.70 to 103.70): VV012202.D (-211) (-)

1.77

400000

300000

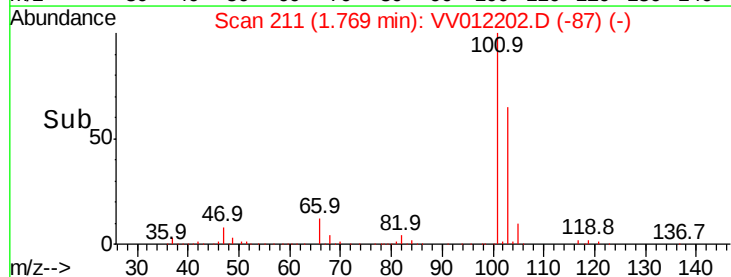
200000

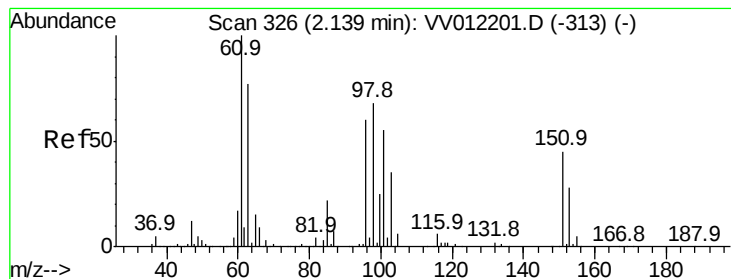
100000

0

Time-->

1.70 1.75 1.80 1.85





#10

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

Concen: 127.174 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

Instrument :

MSVOA_V

ClientSampleId :

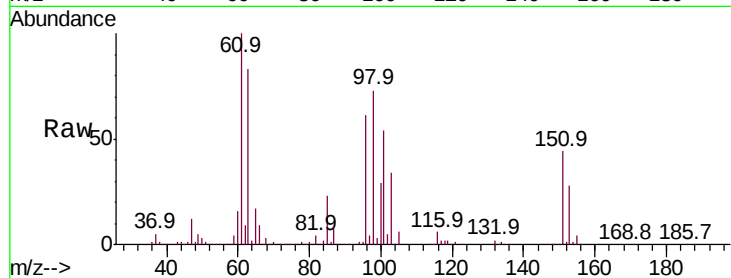
Tot Ion:101 Resp: 290124

Ion Ratio Lower Upper

101 100

85 41.8 32.8 49.2

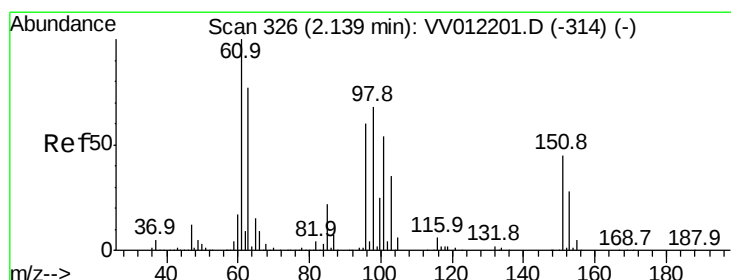
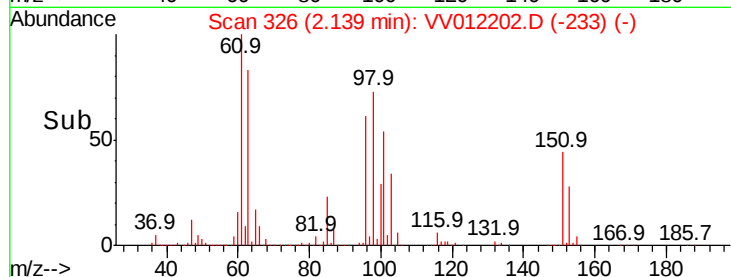
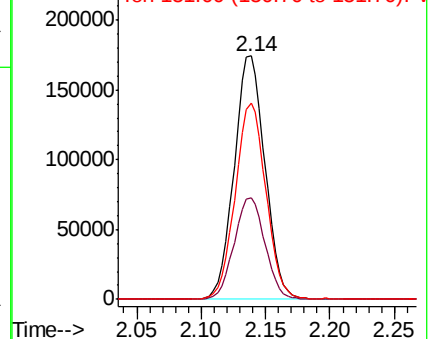
151 80.0 65.0 97.6



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: 131.266 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

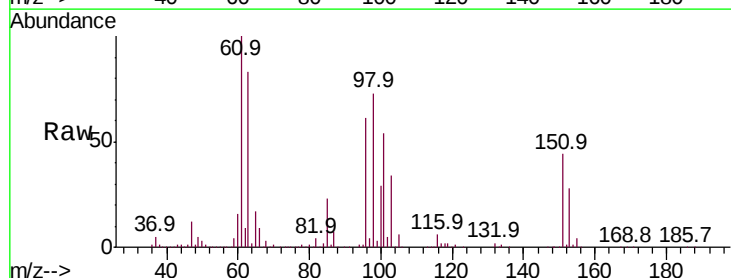
Tgt Ion: 96 Resp: 276390

Ion Ratio Lower Upper

96 100

61 163.8 115.9 215.3

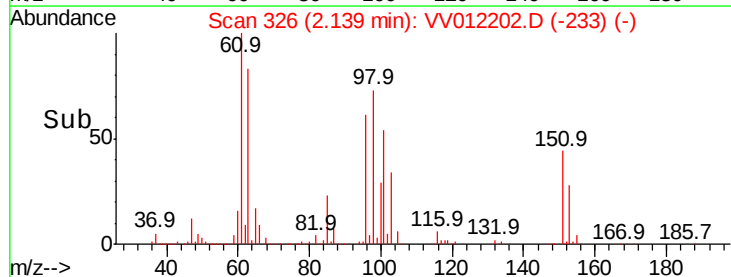
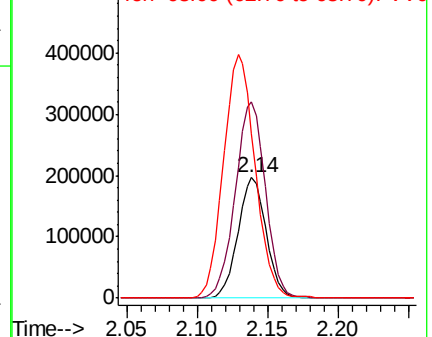
63 136.6 90.0 167.2

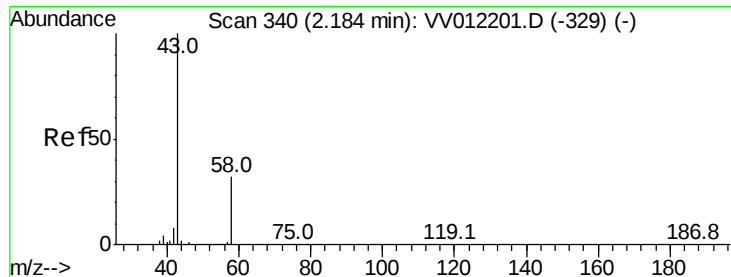


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 305.223 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

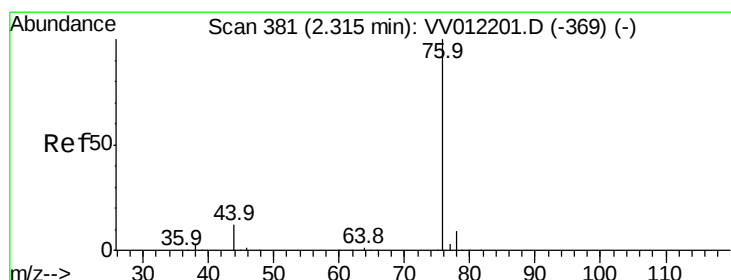
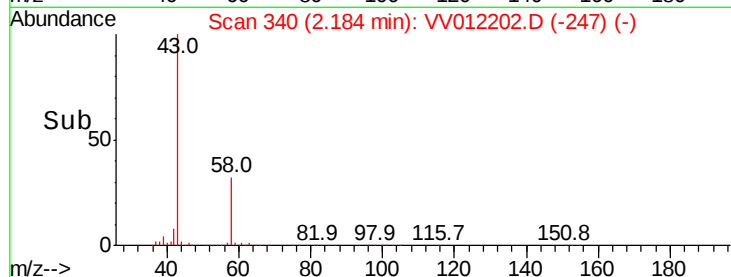
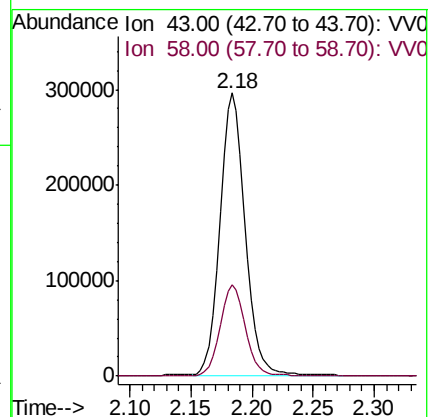
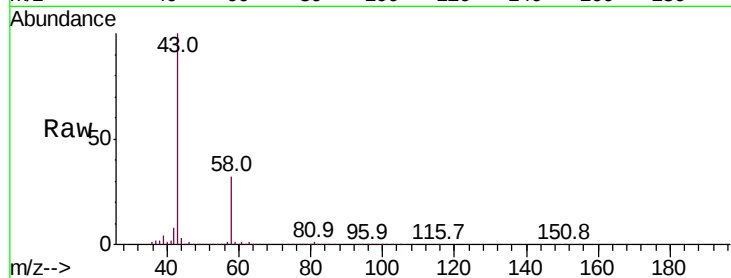
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 429636

Ion Ratio Lower Upper

43 100

58 32.4 0.0 63.2



#14

Carbon disulfide

Concen: 120.109 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV012202.D

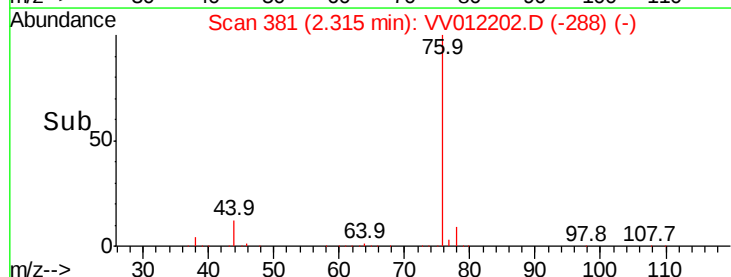
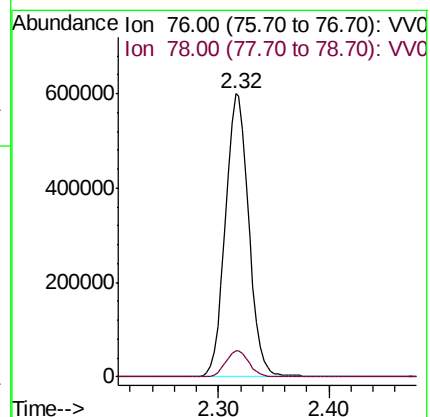
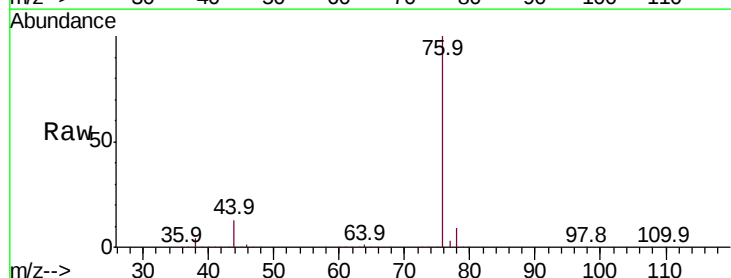
Acq: 12 Aug 2019 12:09

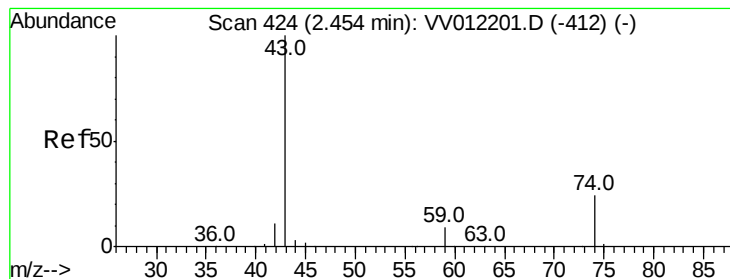
Tgt Ion: 76 Resp: 884008

Ion Ratio Lower Upper

76 100

78 9.1 7.1 10.7





#15

Methvl Acetate

Concen: 134.873 ug/L

RT: 2.45 min Scan# 424

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

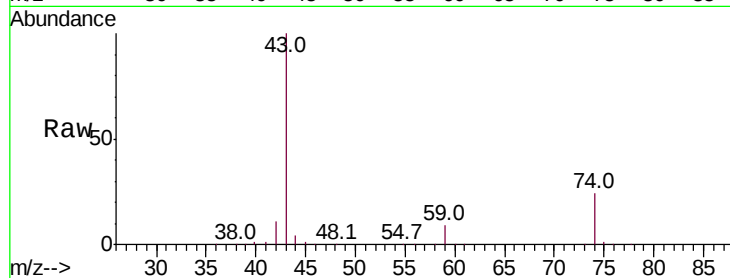
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 370395

Ion Ratio Lower Upper

43 100

74 24.2 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

250000

200000

150000

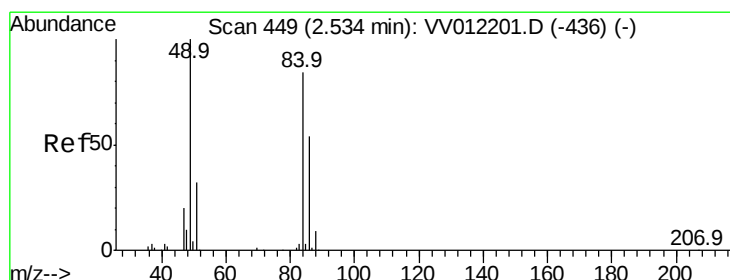
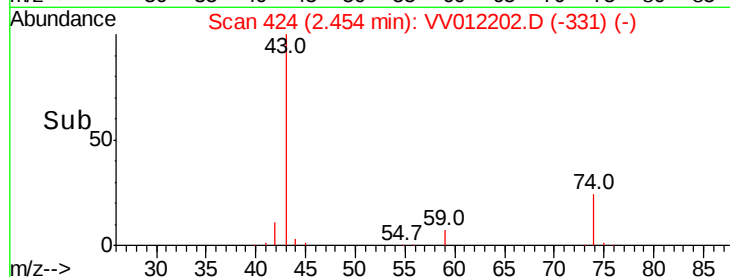
100000

50000

0

2.40 2.45 2.50 2.55

Time-->



#16

Methylene chloride

Concen: 112.050 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

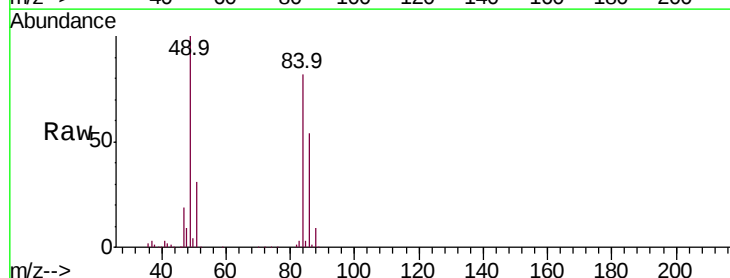
Tgt Ion: 84 Resp: 344281

Ion Ratio Lower Upper

84 100

86 65.6 44.9 83.5

49 121.6 83.7 155.5



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

300000

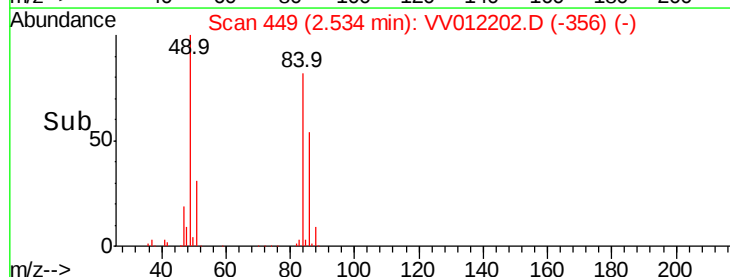
200000

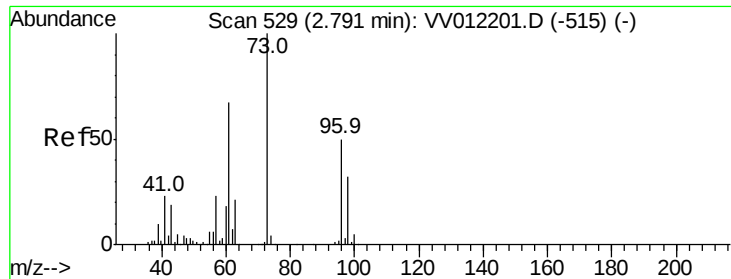
100000

0

2.45 2.50 2.55 2.60

Time-->





#17

trans-1,2-Dichloroethene

Concen: 112.367 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

Instrument :
MSVOA_V
ClientSampled :

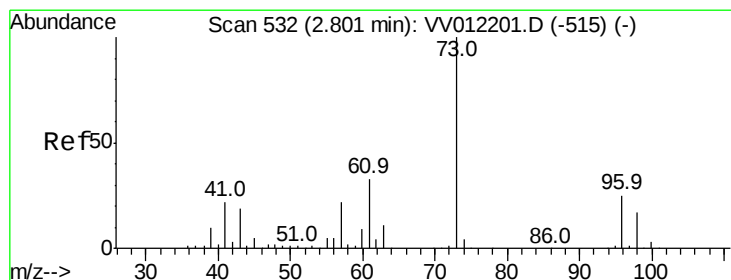
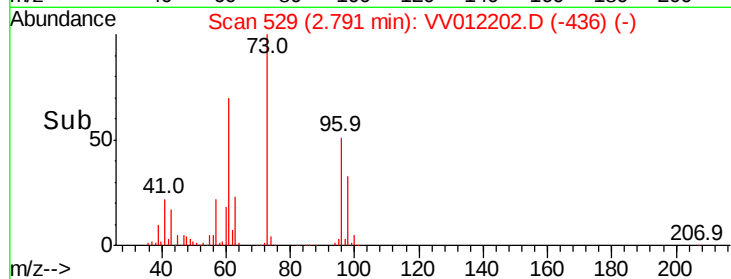
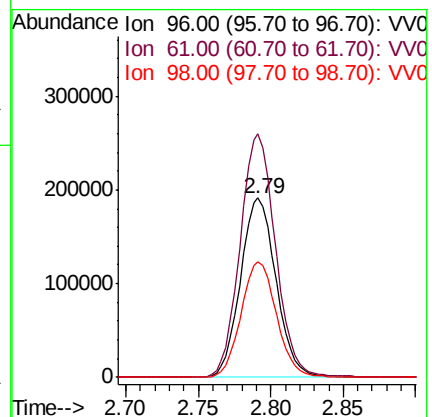
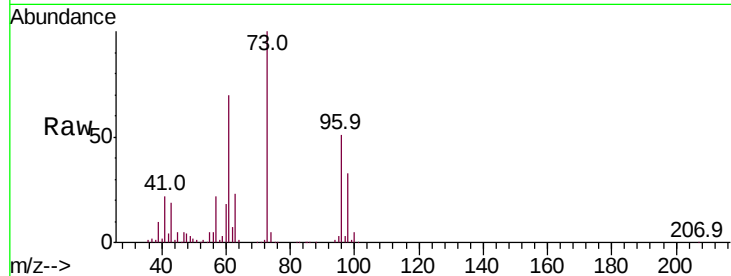
Tot Ion: 96 Resp: 326514

Ion Ratio Lower Upper

96 100

61 135.8 94.8 176.2

98 64.7 44.9 83.5



#18

Methyl tert-butyl Ether

Concen: 110.987 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

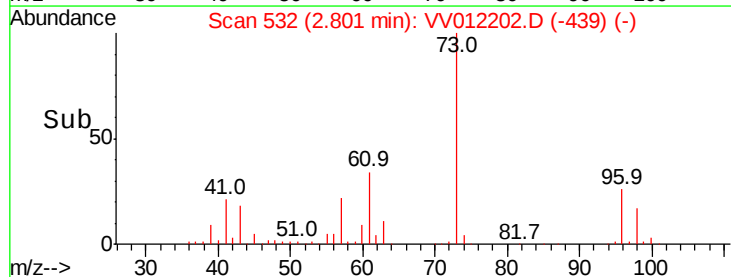
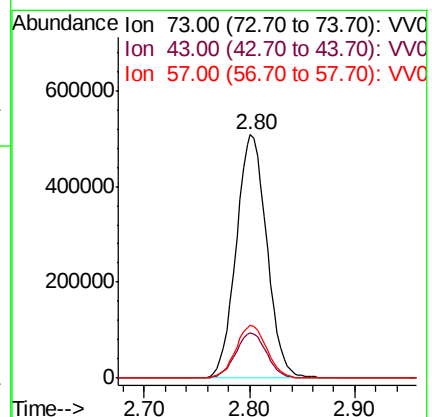
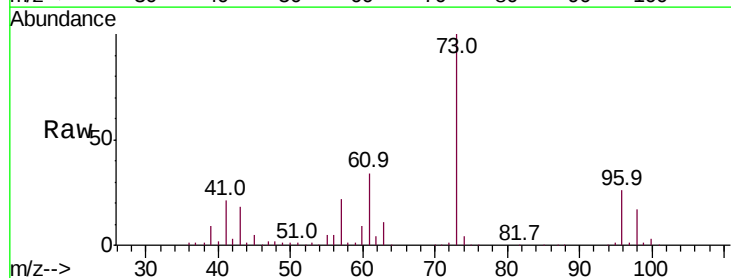
Tgt Ion: 73 Resp: 1021710

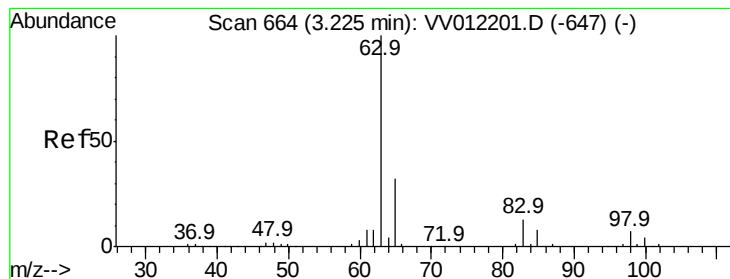
Ion Ratio Lower Upper

73 100

43 18.8 15.1 22.7

57 22.0 18.0 27.0





#19

1,1-Dichloroethane

Concen: 115.835 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

Instrument :
MSVOA_V
ClientSampleId :

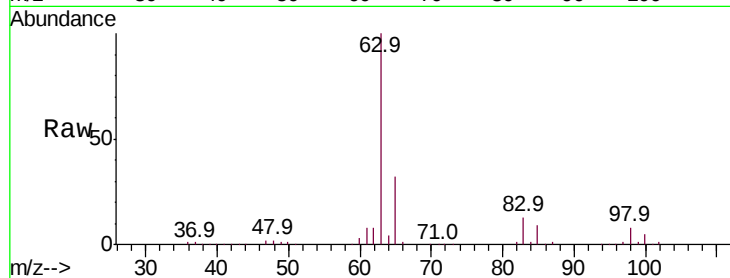
Tot Ion: 63 Resp: 599257

Ion	Ratio	Lower	Upper
63	100		
65	31.6	22.0	41.0
83	13.3	9.2	17.0

63 100

65 31.6 22.0 41.0

83 13.3 9.2 17.0

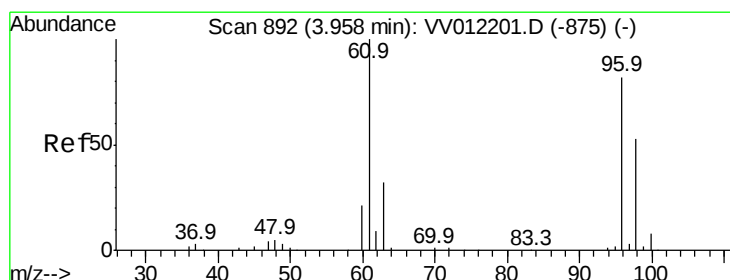
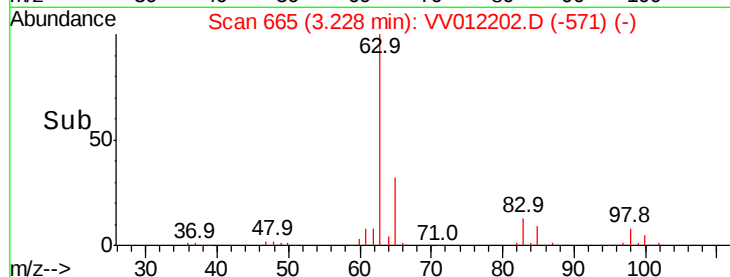
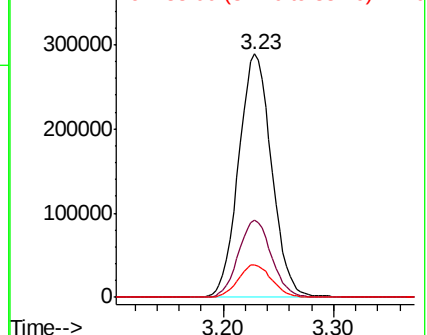


Abundance

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: 113.103 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

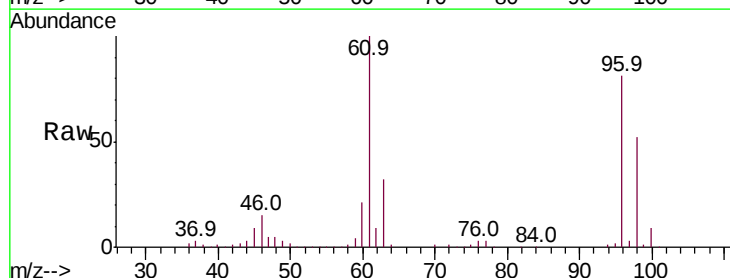
Tgt Ion: 96 Resp: 371600

Ion	Ratio	Lower	Upper
96	100		
61	123.1	85.8	159.3
68	0.0	0.0	0.0

96 100

61 123.1 85.8 159.3

68 0.0 0.0 0.0

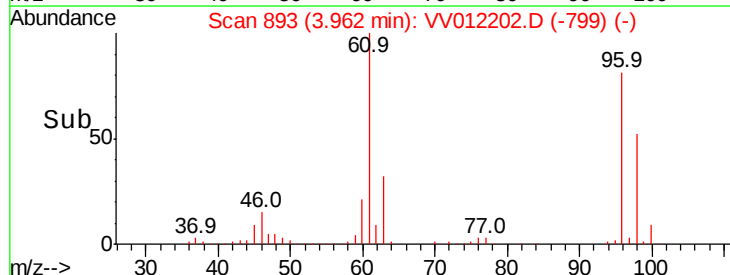
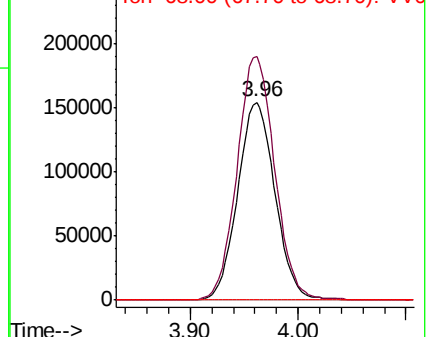


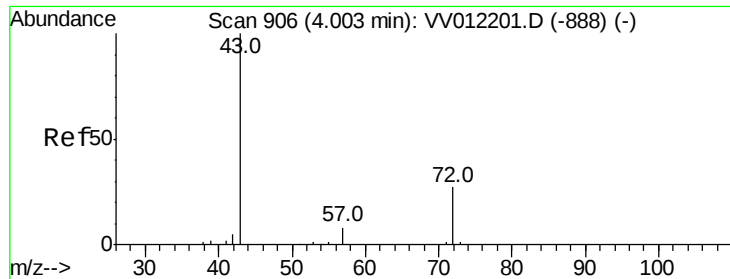
Abundance

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: 281.417 ug/L

RT: 4.01 min Scan# 907

Delta R.T. 0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

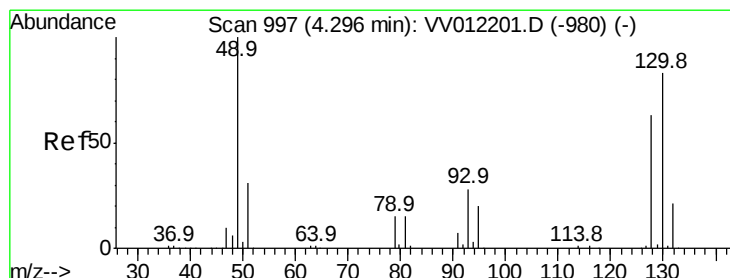
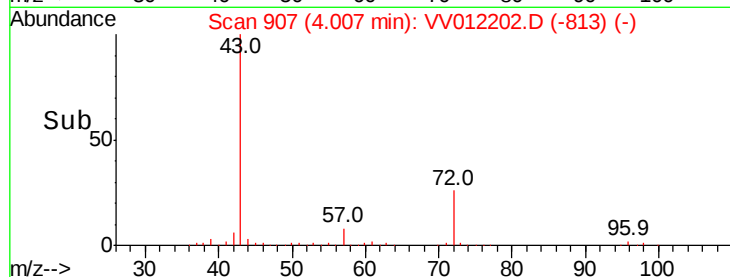
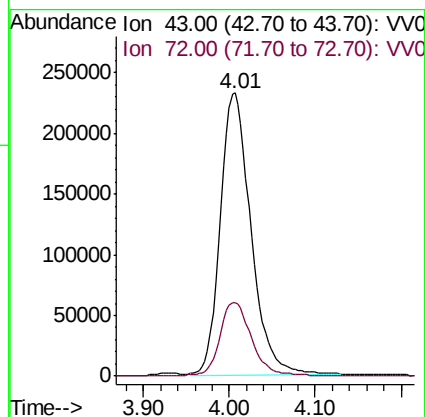
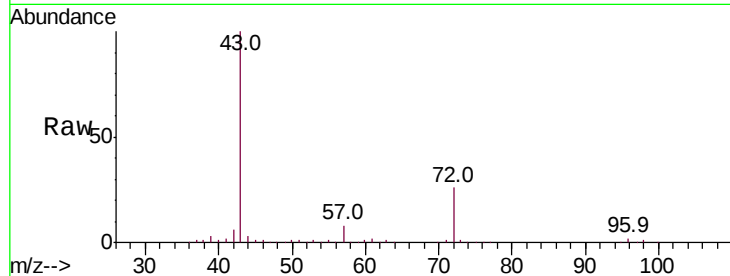
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 574356

Ion Ratio Lower Upper

43 100

72 27.5 13.5 40.4



#23

Bromochloromethane

Concen: 106.549 ug/L

RT: 4.30 min Scan# 997

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

Tgt Ion:128 Resp: 189298

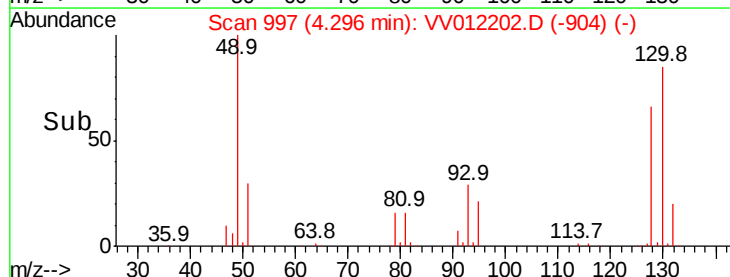
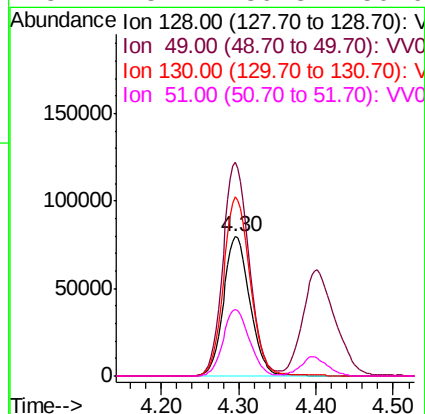
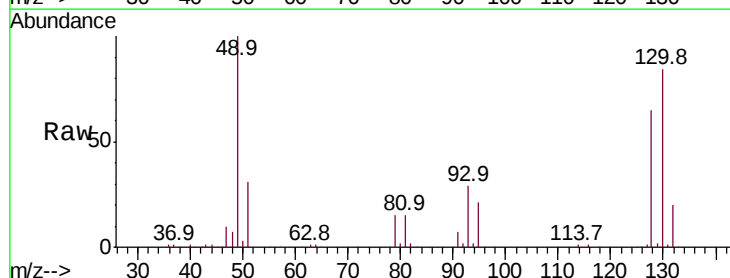
Ion Ratio Lower Upper

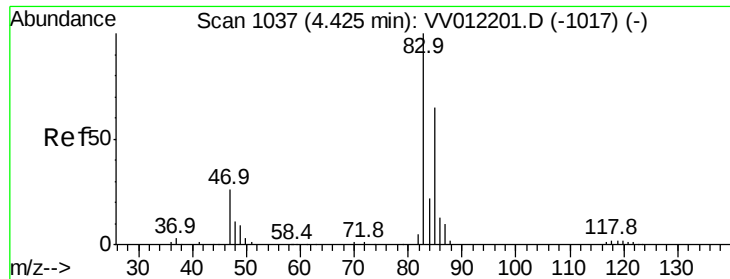
128 100

49 153.5 111.0 206.2

130 128.4 91.3 169.6

51 48.1 39.8 59.6

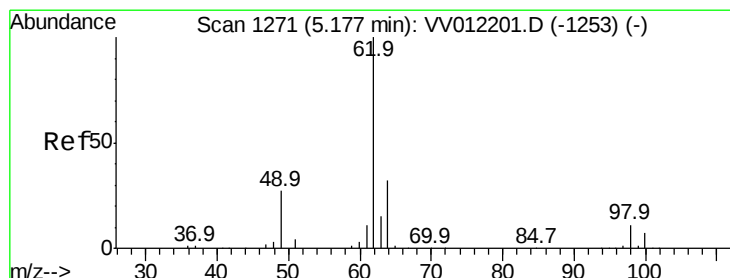
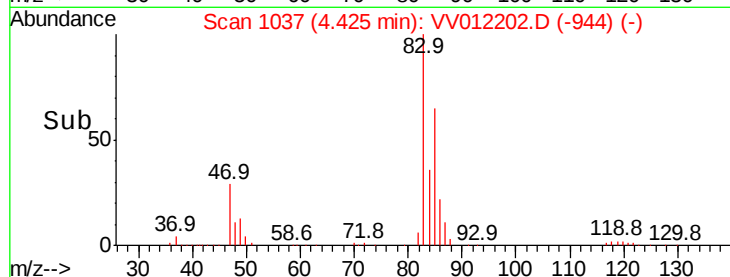
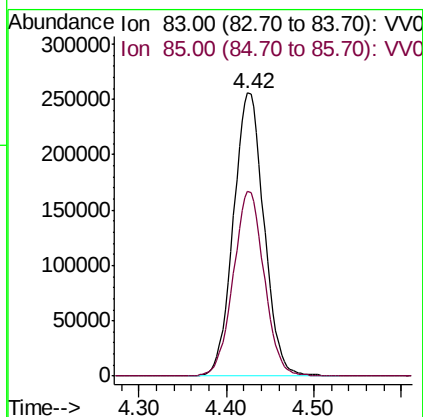
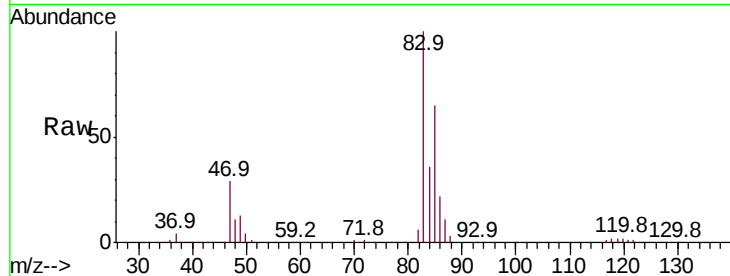




#25
Chloroform
Concen: 108.481 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV012202.D
Acq: 12 Aug 2019 12:09

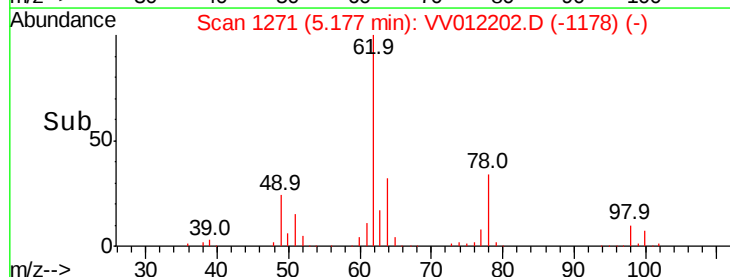
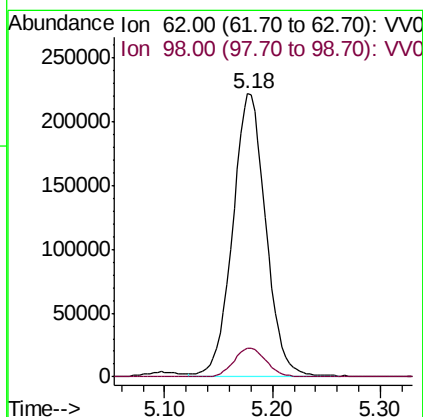
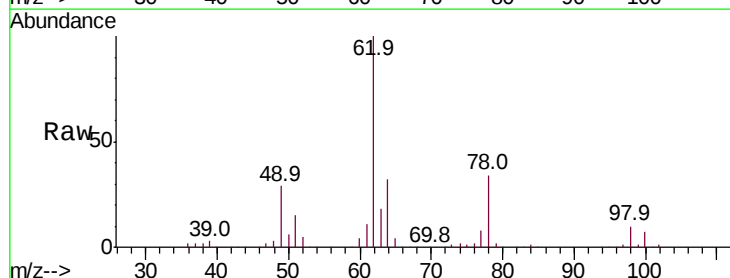
Instrument :
MSVOA_V
ClientSampled :

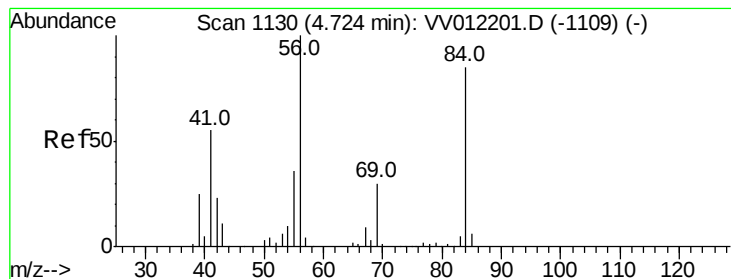
Tot Ion: 83 Resp: 620491
Ion Ratio Lower Upper
83 100
85 65.3 45.4 84.2



#27
1,2-Dichloroethane
Concen: 106.119 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV012202.D
Acq: 12 Aug 2019 12:09

Tgt Ion: 62 Resp: 471894
Ion Ratio Lower Upper
62 100
98 10.2 8.4 12.6





#29

Cvclohexane

Concen: 125.683 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

Instrument :
MSVOA_V
ClientSampleId :

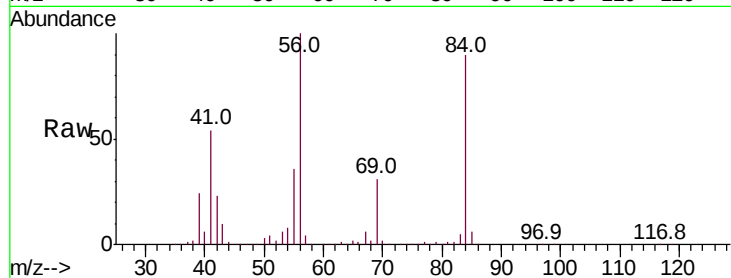
Tot Ion: 56 Resp: 564382

Ion Ratio Lower Upper

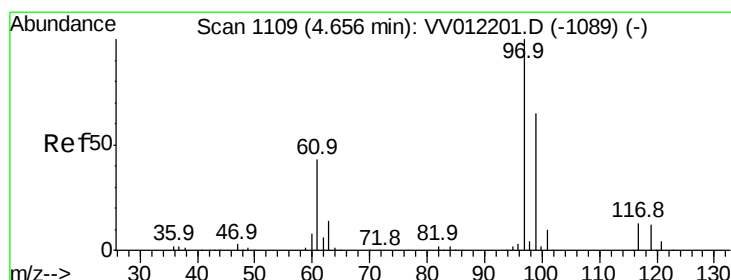
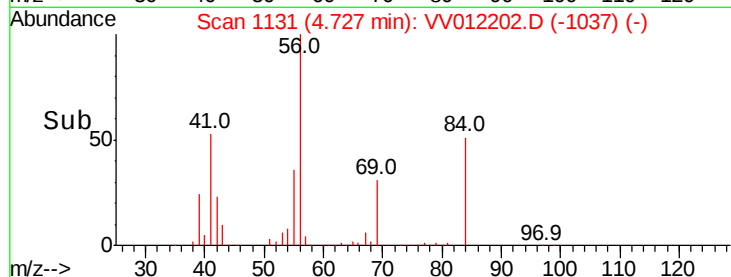
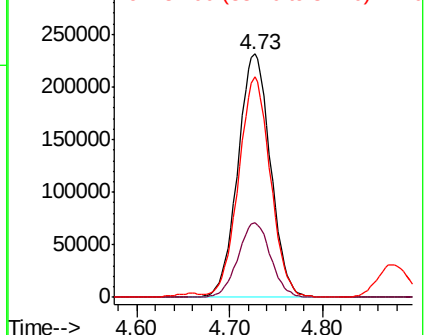
56 100

69 30.6 24.1 36.1

84 88.7 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: 101.809 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

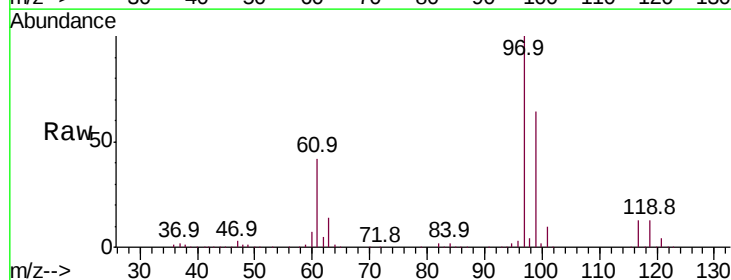
Tgt Ion: 97 Resp: 537849

Ion Ratio Lower Upper

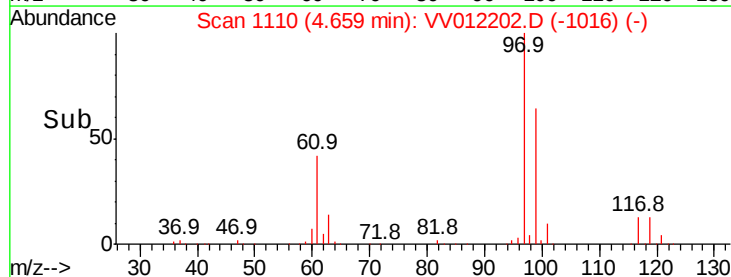
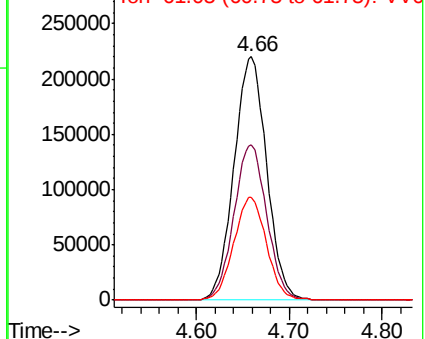
97 100

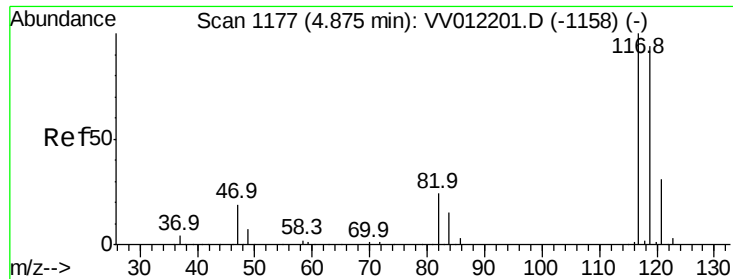
99 64.2 51.4 77.2

61 42.4 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



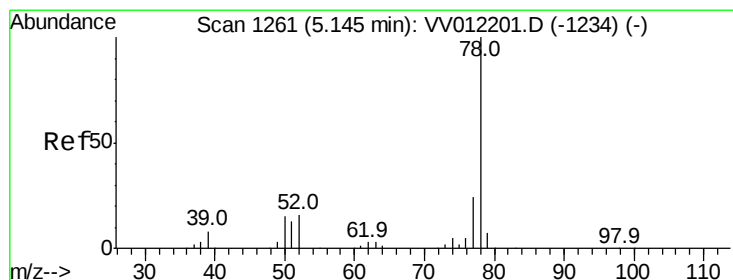
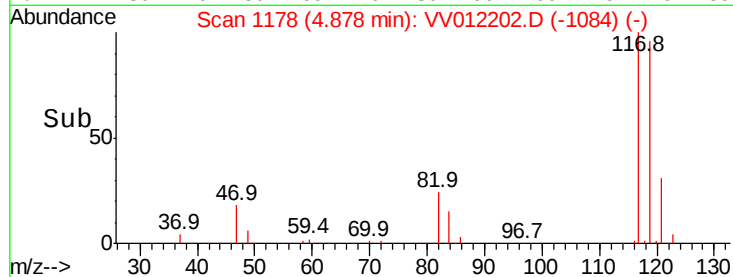
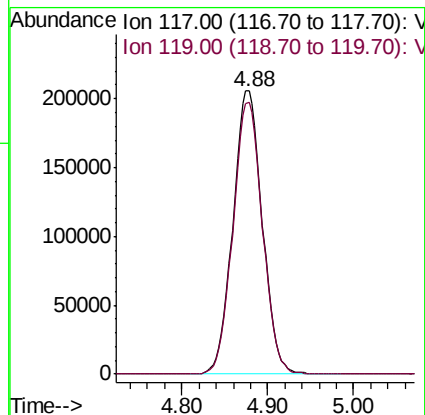
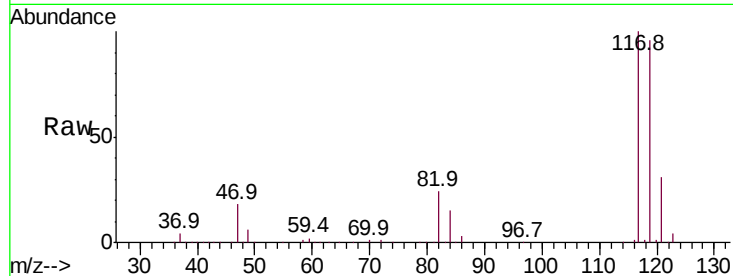


#31

Carbon tetrachloride
 Concen: 99.036 ug/L
 RT: 4.88 min Scan# 1178
 Delta R.T. 0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

Instrument :
 MSVOA_V
 ClientSampleId :

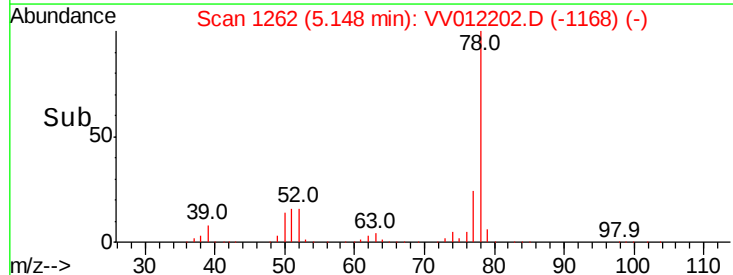
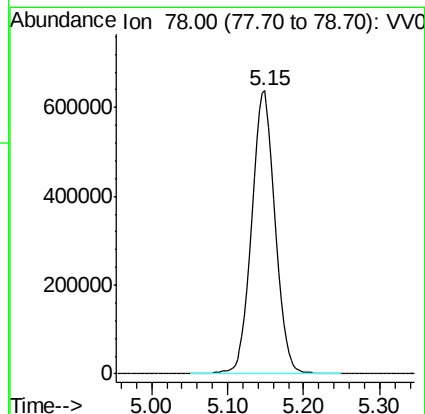
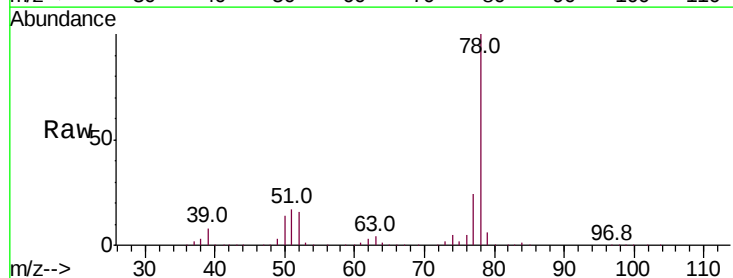
Tot Ion:117 Resp: 485618
 Ion Ratio Lower Upper
 117 100
 119 96.6 77.1 115.7

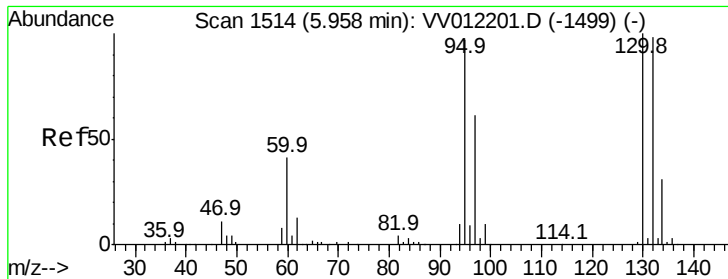


#33

Benzene
 Concen: 115.655 ug/L
 RT: 5.15 min Scan# 1262
 Delta R.T. 0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

Tgt Ion: 78 Resp: 1371003

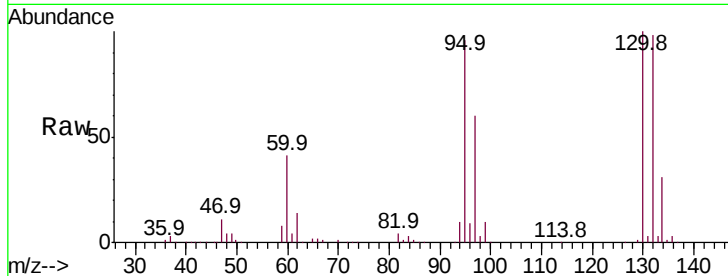




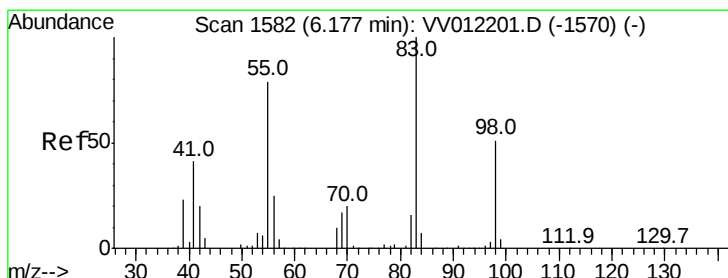
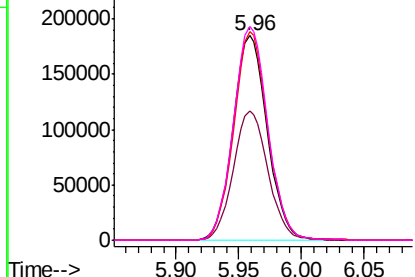
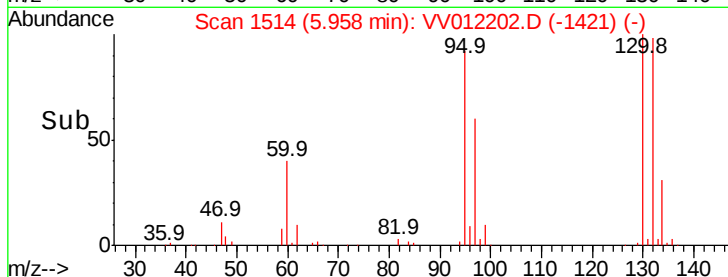
#34
 Trichloroethene
 Concen: 110.231 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 351580
 Ion Ratio Lower Upper
 95 100
 97 63.1 44.3 82.3
 132 102.3 70.7 131.3
 130 104.5 72.3 134.3

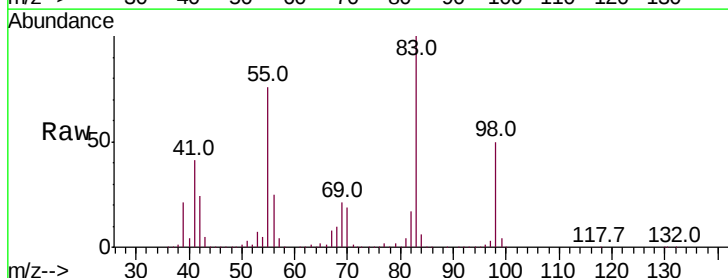


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

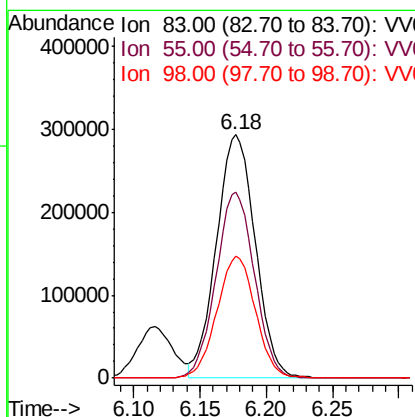
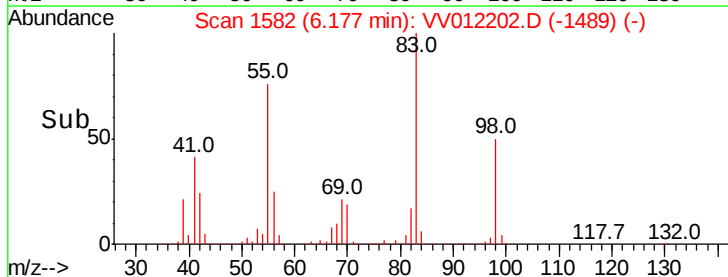


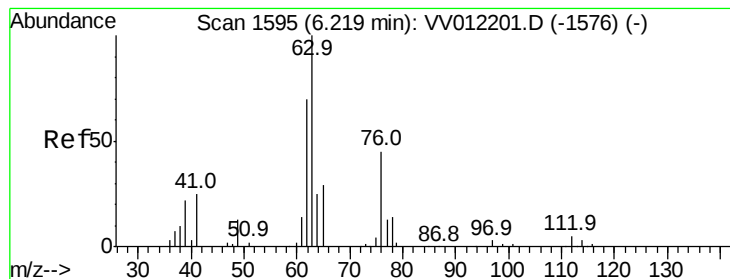
#35
 Methylcyclohexane
 Concen: 117.347 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

Tgt Ion: 83 Resp: 598277
 Ion Ratio Lower Upper
 83 100
 55 75.4 60.7 91.1
 98 49.7 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: 119.523 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

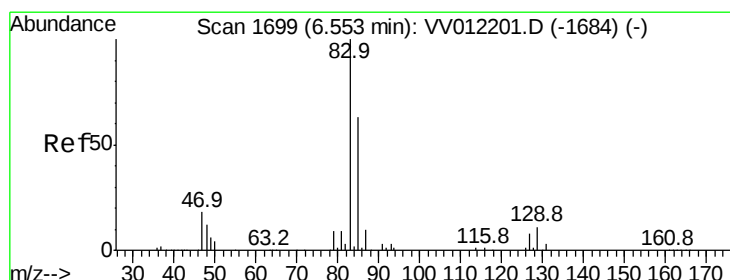
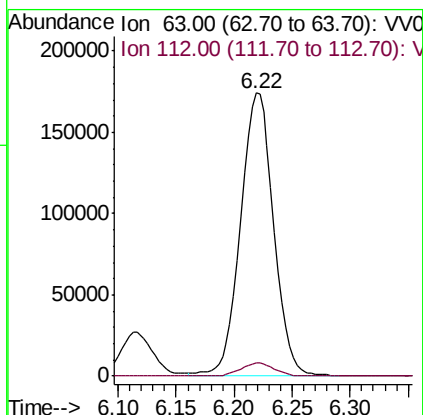
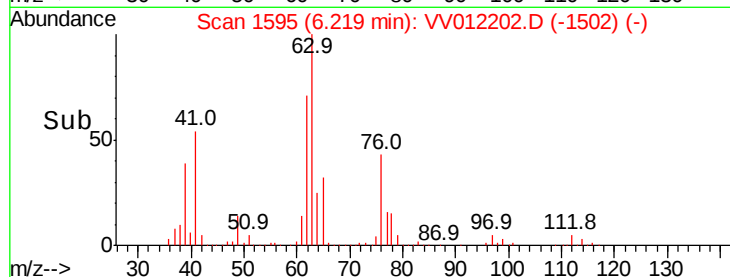
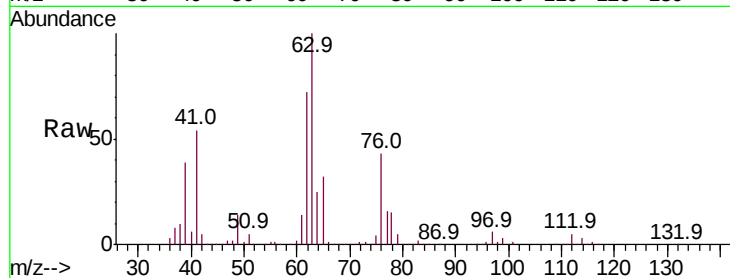
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 63 Resp: 343832

Ion Ratio Lower Upper

63 100

112 4.7 4.0 6.0



#38

Bromodichloromethane

Concen: 107.551 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

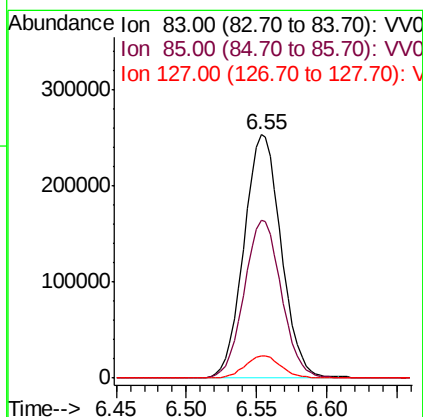
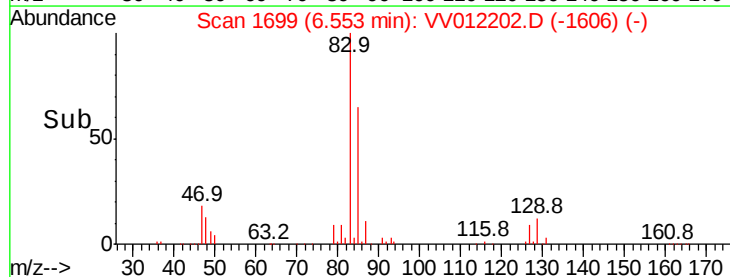
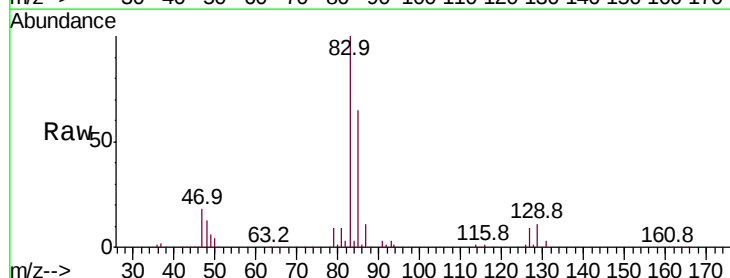
Tgt Ion: 83 Resp: 467643

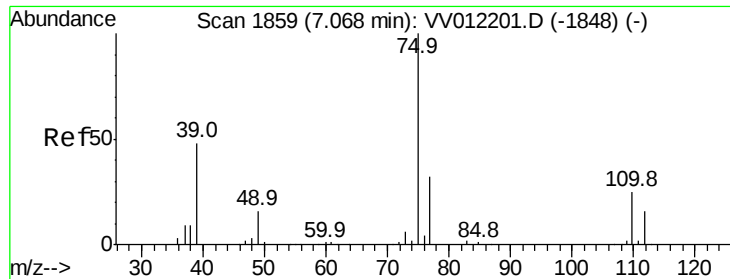
Ion Ratio Lower Upper

83 100

85 64.8 44.2 82.0

127 9.0 6.7 10.1

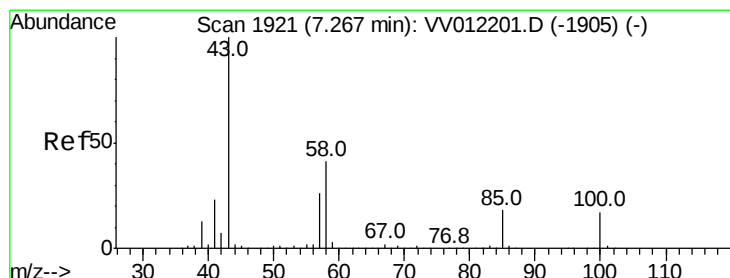
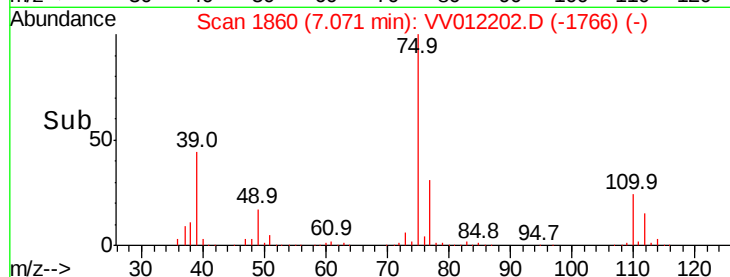
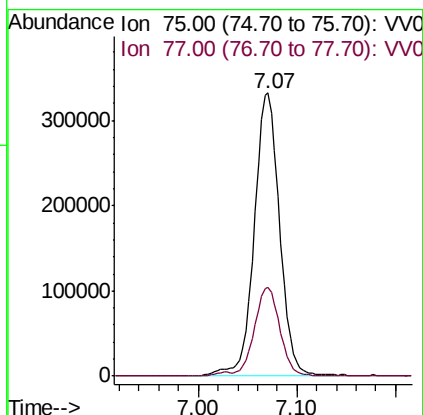
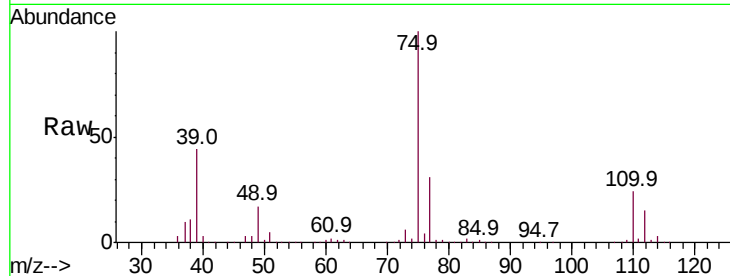




#39
 cis-1,3-Dichloropropene
 Concen: 121.466 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

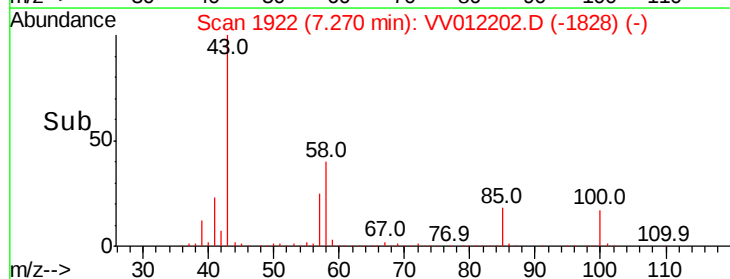
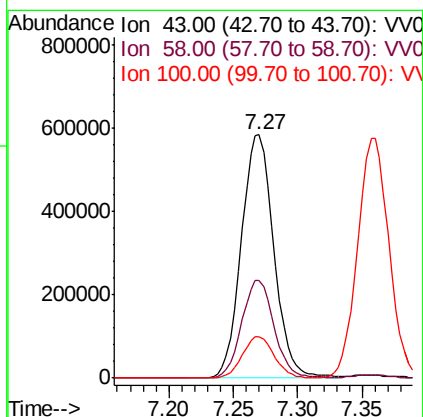
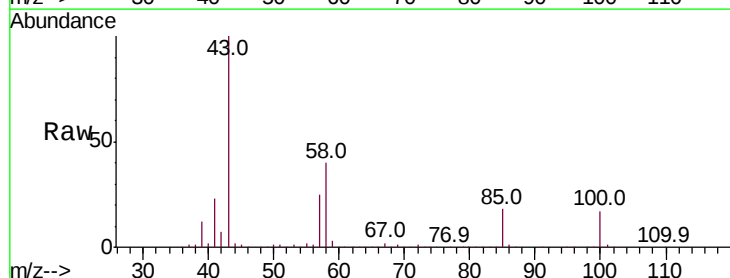
Instrument :
 MSVOA_V
 ClientSampleId :

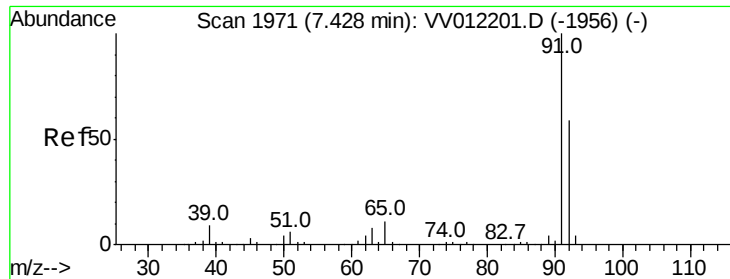
Tot Ion: 75 Resp: 589560
 Ion Ratio Lower Upper
 75 100
 77 31.3 22.6 42.0



#40
 4-Methyl-2-pentanone
 Concen: 274.228 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

Tgt Ion: 43 Resp: 1024914
 Ion Ratio Lower Upper
 43 100
 58 40.0 32.3 48.5
 100 16.9 13.2 19.8





#42

Toluene

Concen: 113.355 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

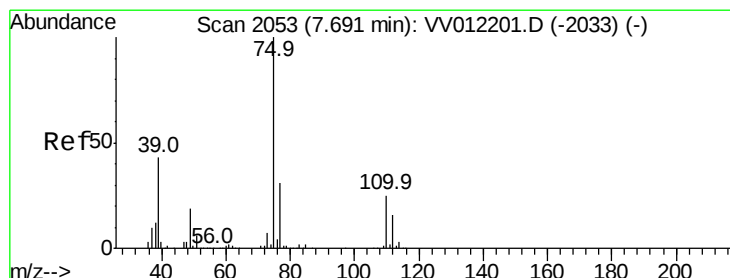
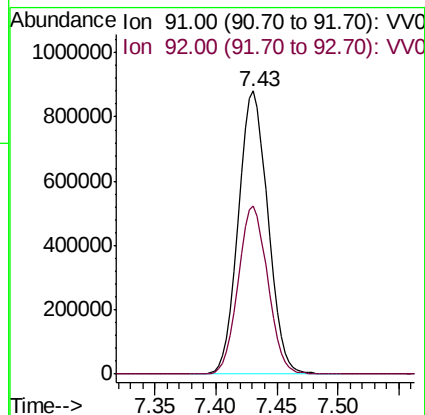
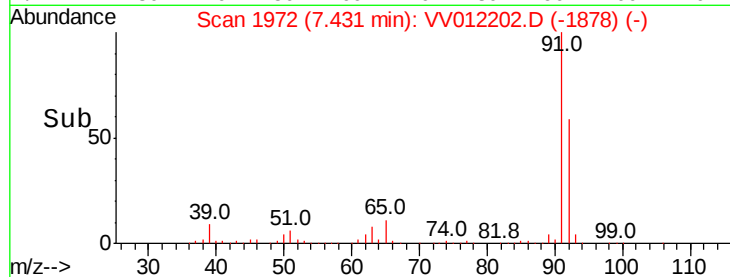
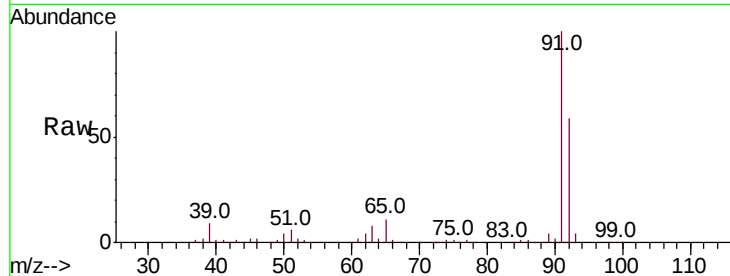
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 1478662

Ion Ratio Lower Upper

91 100

92 59.4 41.4 76.8



#44

trans-1,3-Dichloropropene

Concen: 118.211 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012202.D

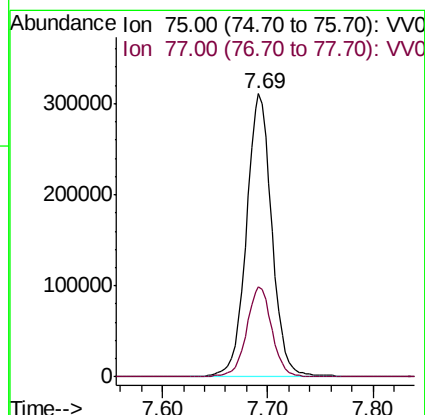
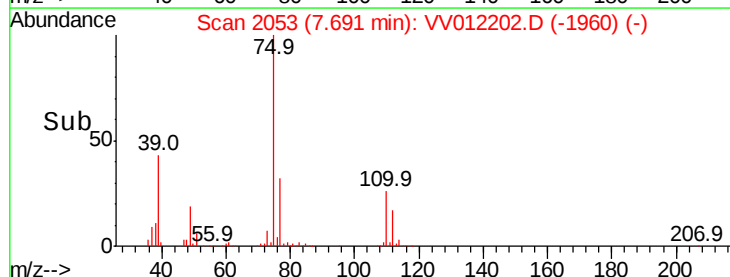
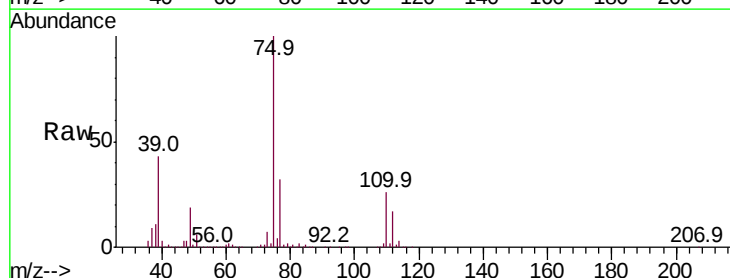
Acq: 12 Aug 2019 12:09

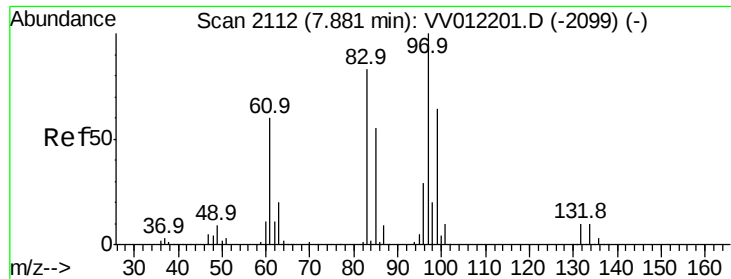
Tgt Ion: 75 Resp: 520639

Ion Ratio Lower Upper

75 100

77 31.7 22.0 40.8

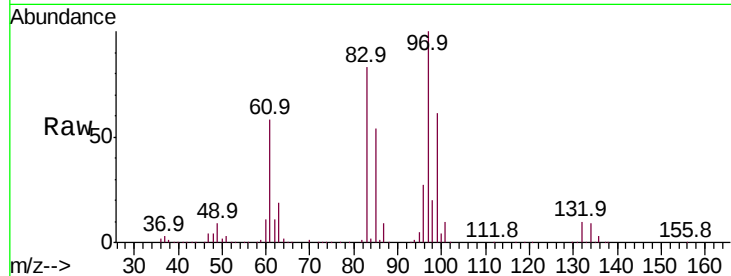




#45
 1,1,2-Trichloroethane
 Concen: 110.536 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	97	Resp:	343397
Ion	Ratio	Lower	Upper
97	100		
99	61.4	44.5	82.7
83	82.7	57.8	107.4
85	54.2	38.4	71.4



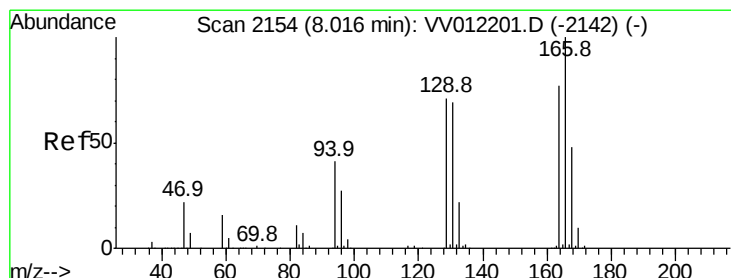
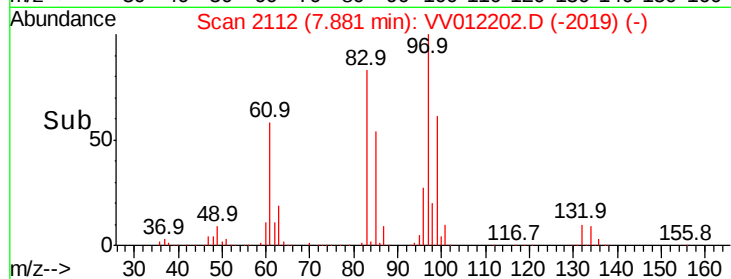
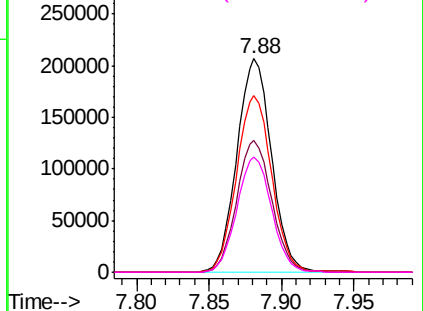
Abundance

Ion 97.00 (96.70 to 97.70): VV0

Ion 99.00 (98.70 to 99.70): VV0

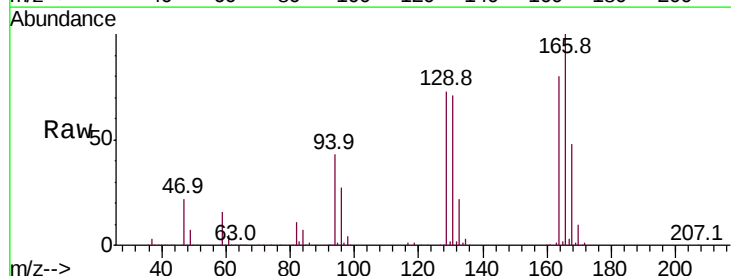
Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0



#46
 Tetrachloroethene
 Concen: 99.830 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

Tgt Ion:	164	Resp:	299899
Ion	Ratio	Lower	Upper
164	100		
129	91.2	64.1	119.1
131	88.7	62.4	115.8
166	125.7	90.6	168.3



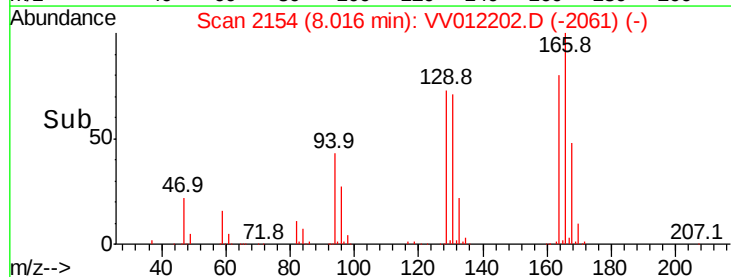
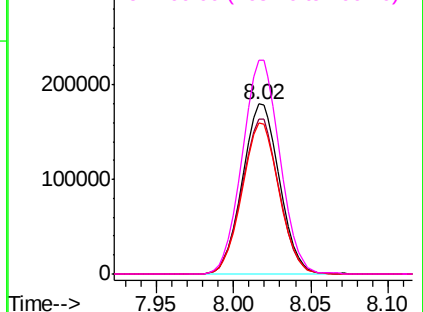
Abundance

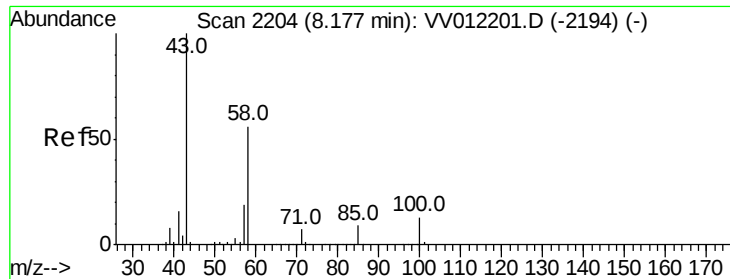
Ion 164.00 (163.70 to 164.70): V

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

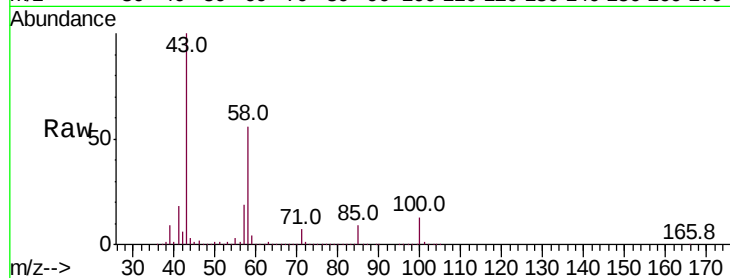




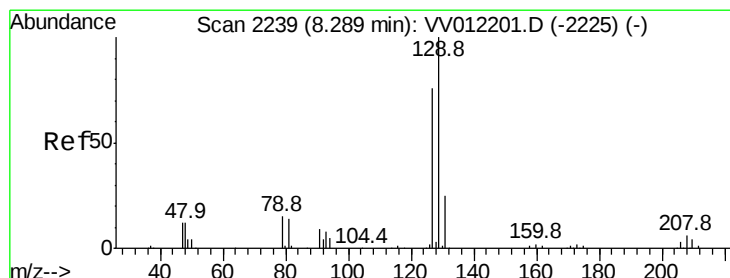
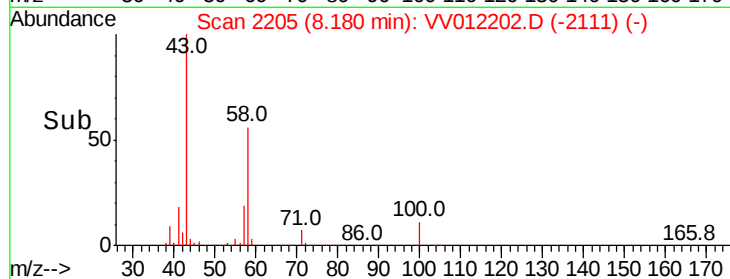
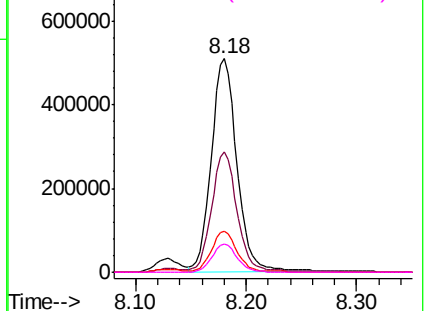
#48
2-Hexanone
Concen: 283.106 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV012202.D
Acq: 12 Aug 2019 12:09

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 814538
Ion Ratio Lower Upper
43 100
58 57.0 43.5 65.3
57 19.2 15.1 22.7
100 12.9 10.4 15.6

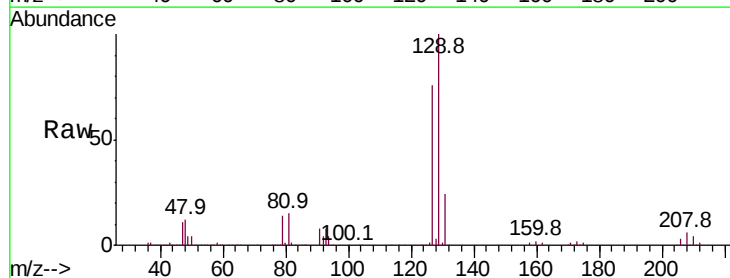


Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0

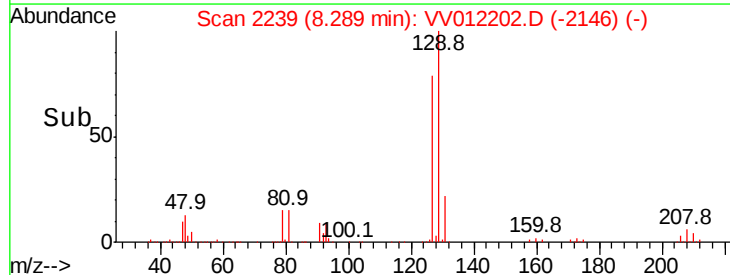
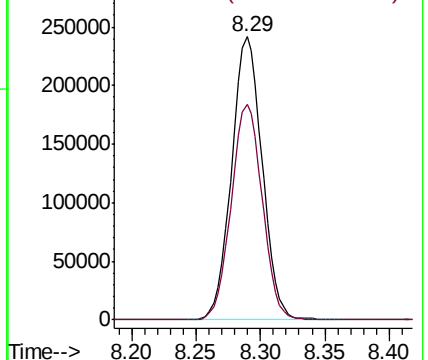


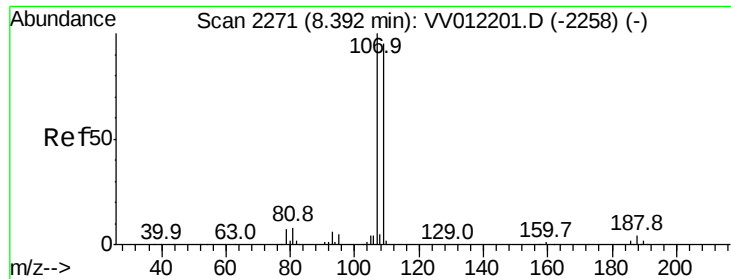
#49
Dibromochloromethane
Concen: 103.299 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012202.D
Acq: 12 Aug 2019 12:09

Tgt Ion: 129 Resp: 398552
Ion Ratio Lower Upper
129 100
127 76.2 53.3 98.9



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

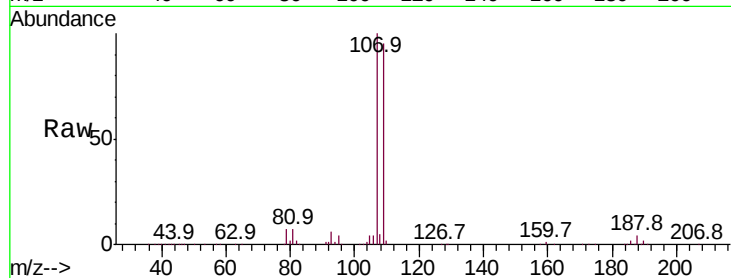




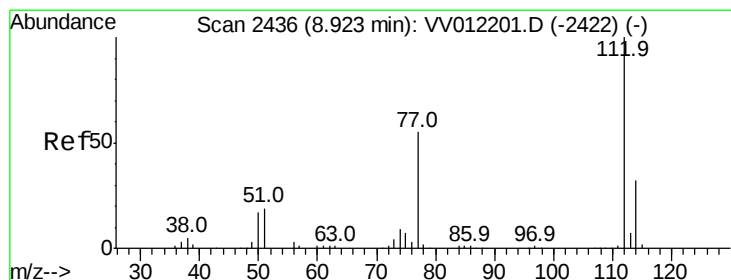
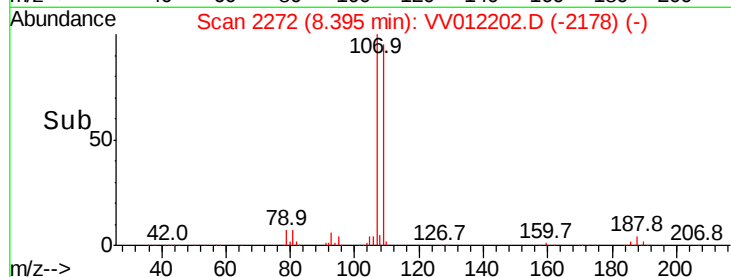
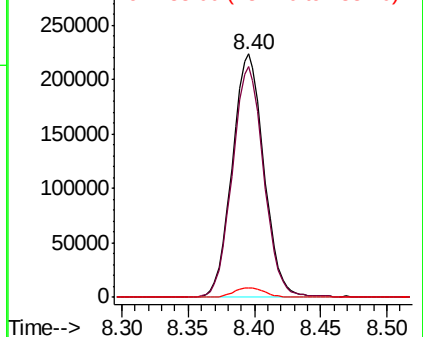
#50
 1,2-Dibromoethane
 Concen: 109.541 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.6	66.4	123.4
188	4.0	3.0	4.6

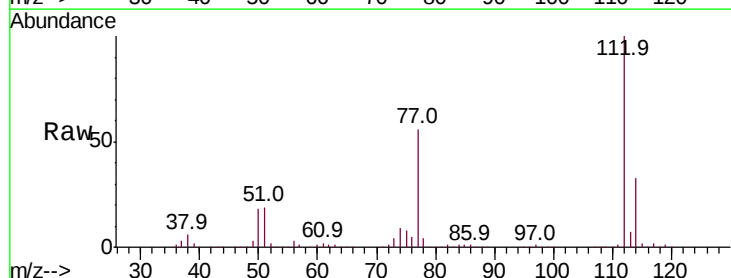


Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 188.00 (187.70 to 188.70): V

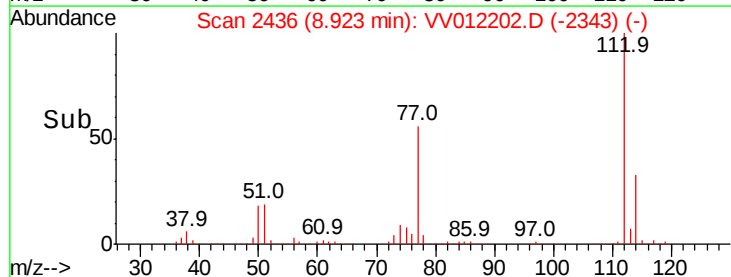
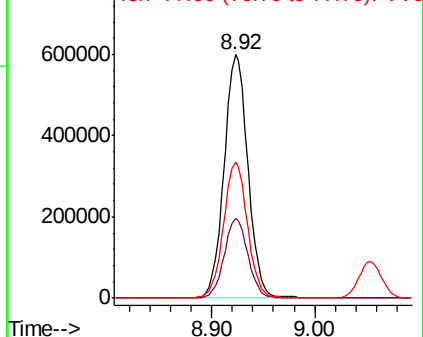


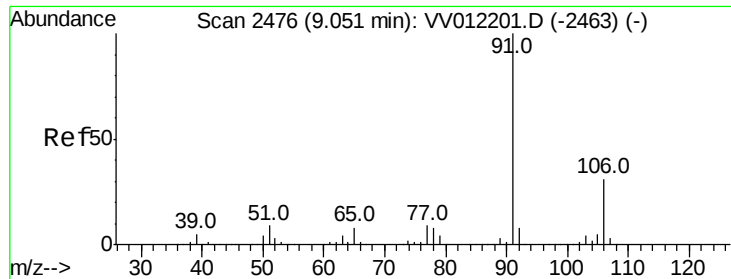
#51
 Chlorobenzene
 Concen: 109.211 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.7	22.5	41.9
77	56.1	44.4	66.6



Abundance Ion 112.00 (111.70 to 112.70): V
 Ion 114.00 (113.70 to 114.70): V
 Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 114.147 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

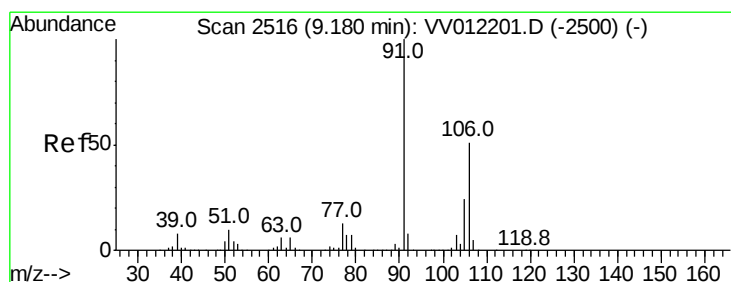
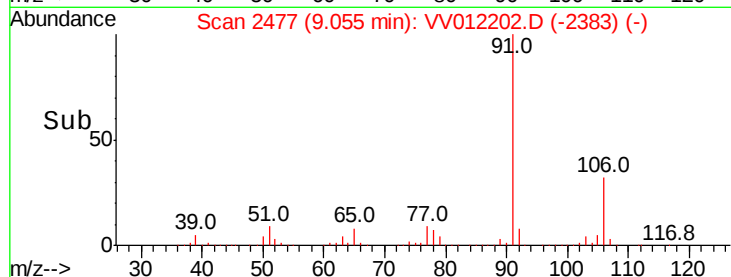
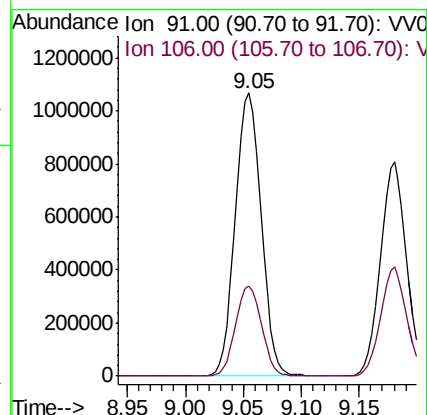
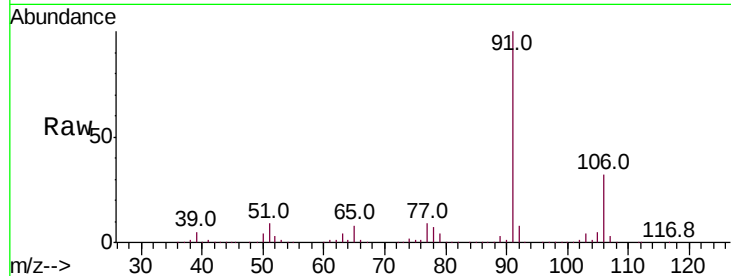
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 1658004

Ion Ratio Lower Upper

91 100

106 31.9 21.8 40.4



#53

m,p-Xylene

Concen: 112.219 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012202.D

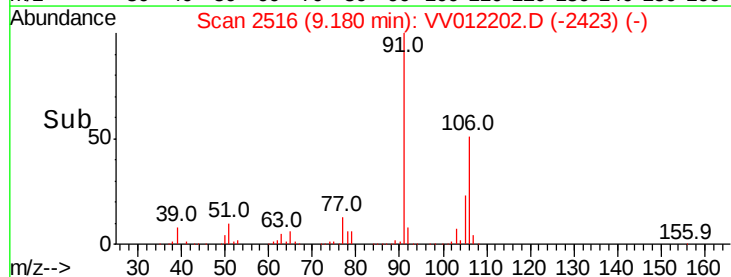
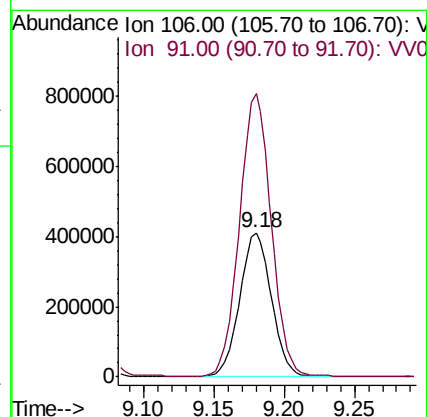
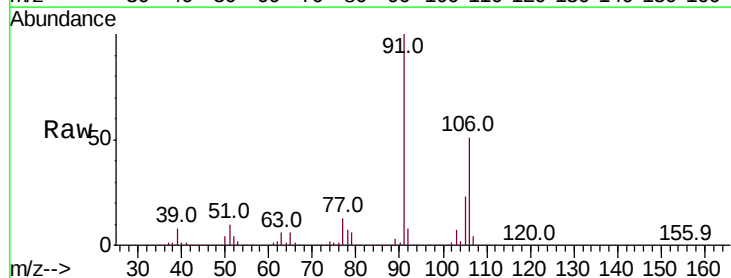
Acq: 12 Aug 2019 12:09

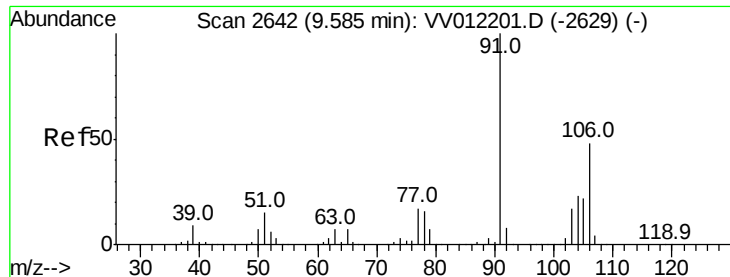
Tgt Ion:106 Resp: 643337

Ion Ratio Lower Upper

106 100

91 196.2 138.0 256.4





#54

o-xylene

Concen: 112.694 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

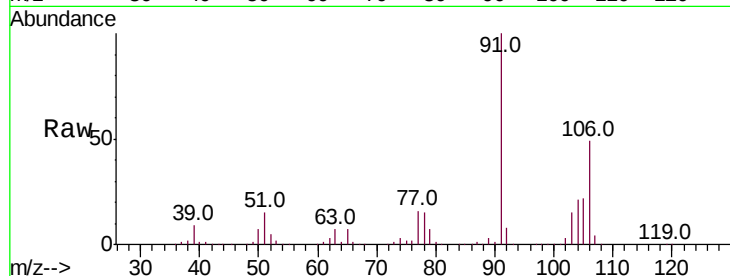
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 634606

Ion Ratio Lower Upper

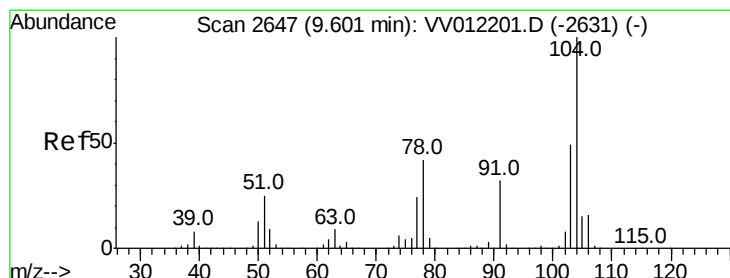
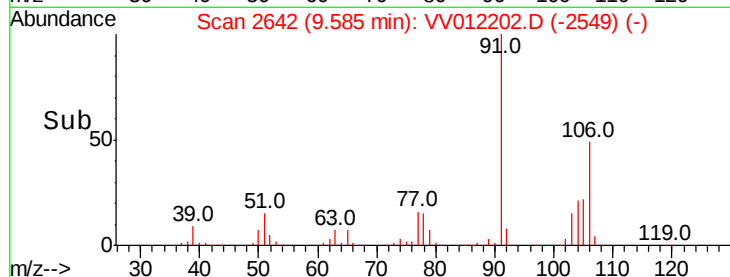
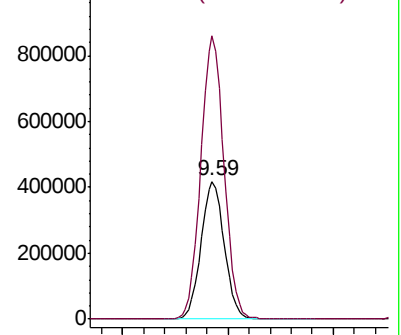
106 100

91 205.6 146.5 272.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 115.066 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV012202.D

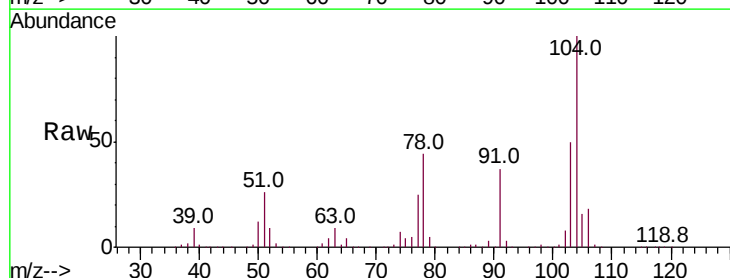
Acq: 12 Aug 2019 12:09

Tgt Ion:104 Resp: 1090339

Ion Ratio Lower Upper

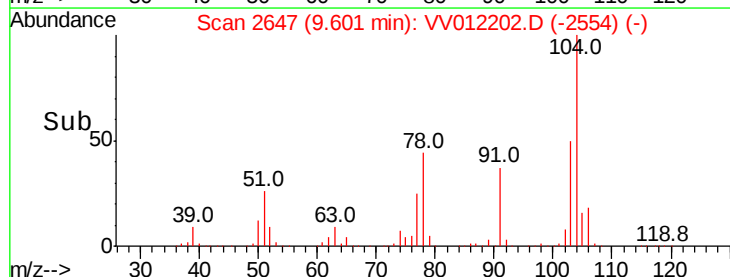
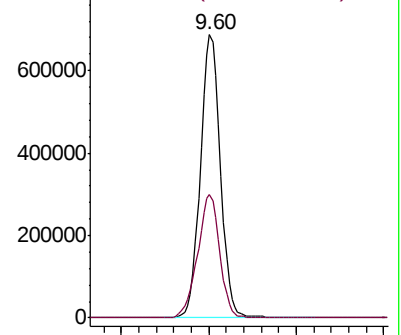
104 100

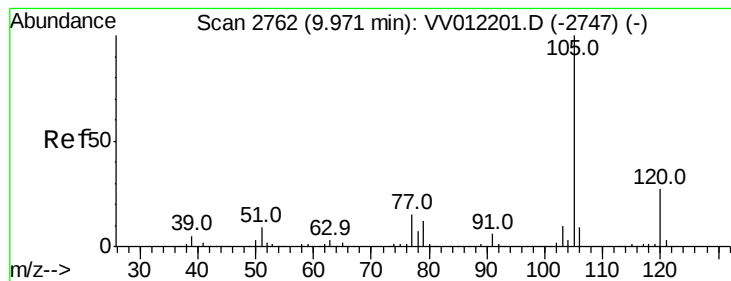
78 43.6 29.5 54.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 111.673 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

Instrument :

MSVOA_V

ClientSampled :

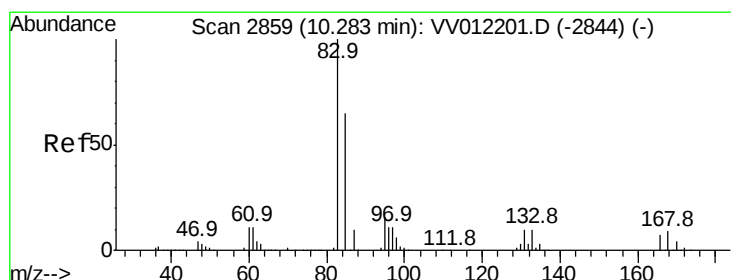
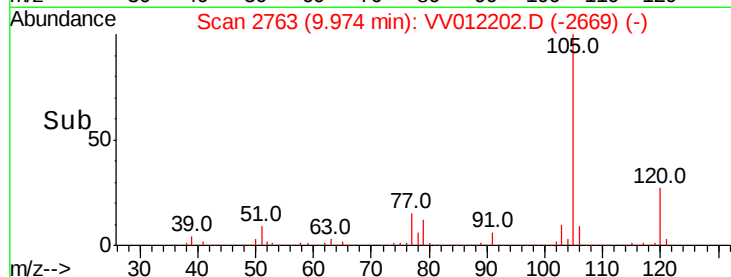
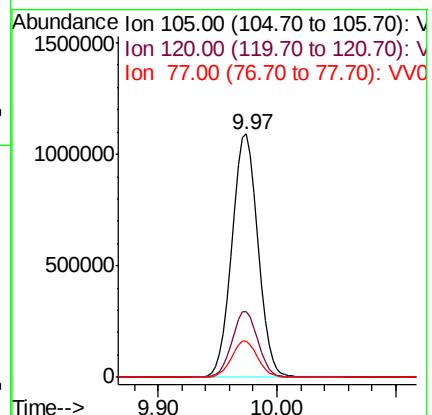
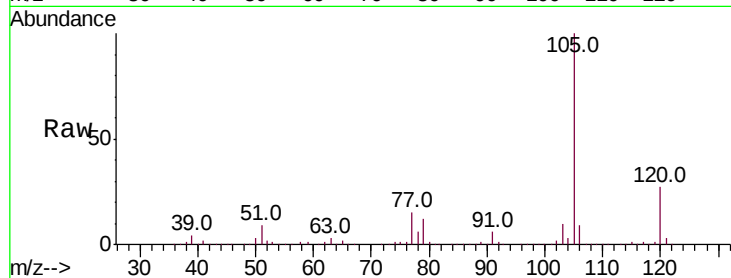
Tot Ion:105 Resp: 1656154

Ion Ratio Lower Upper

105 100

120 27.1 21.8 32.8

77 14.9 12.0 18.0



#58

1,1,2,2-Tetrachloroethane

Concen: 118.100 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

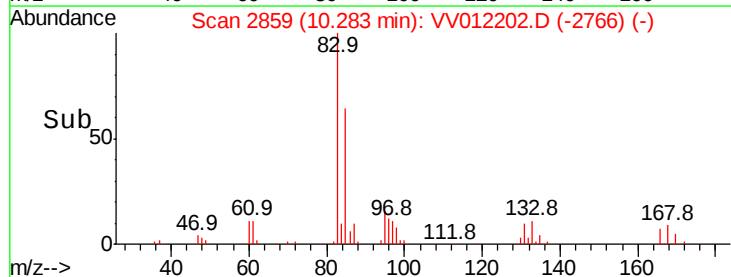
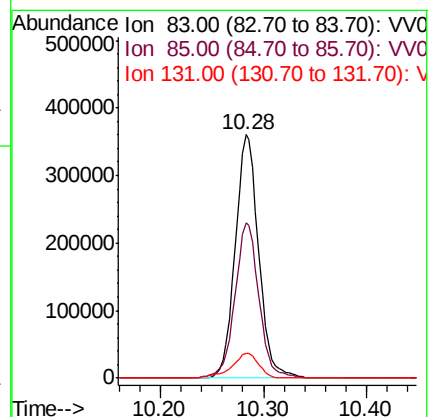
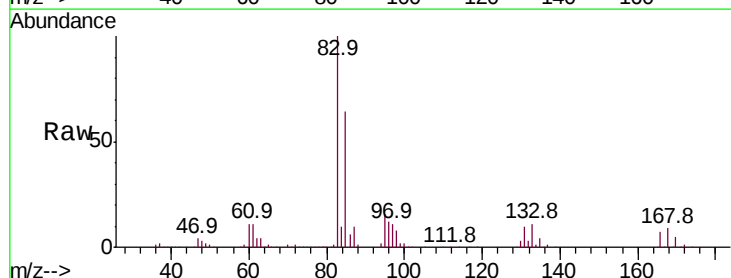
Tgt Ion: 83 Resp: 570210

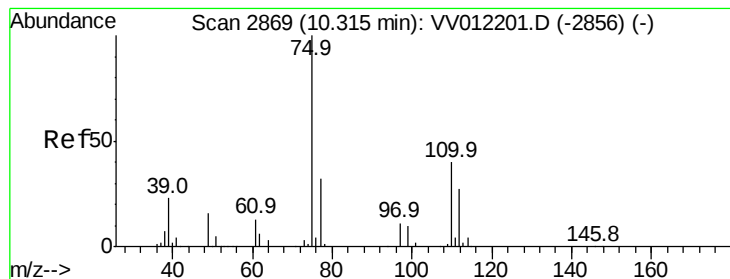
Ion Ratio Lower Upper

83 100

85 64.0 45.3 84.1

131 10.3 8.4 12.6





#59

1,2,3-Trichloropropane

Concen: 114.569 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

Instrument :

MSVOA_V

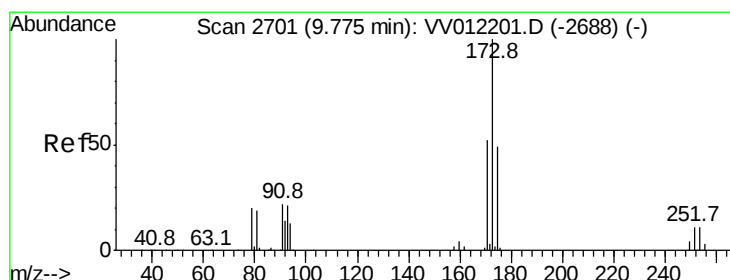
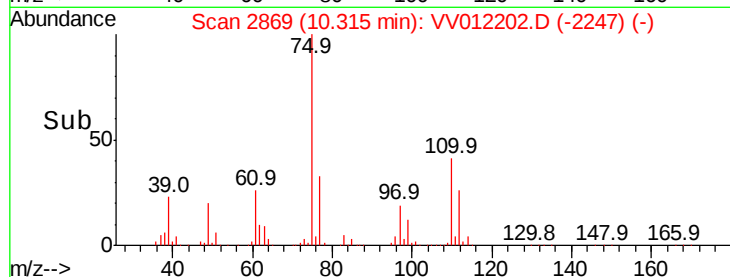
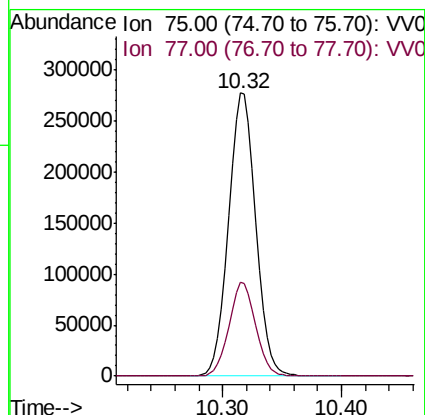
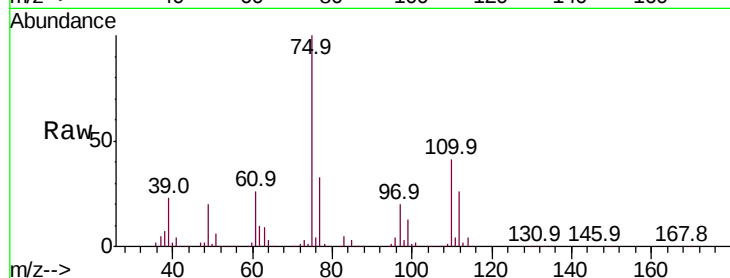
ClientSampleId :

Tot Ion: 75 Resp: 438529

Ion Ratio Lower Upper

75 100

77 32.5 25.4 38.2



#61

Bromoform

Concen: 97.203 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

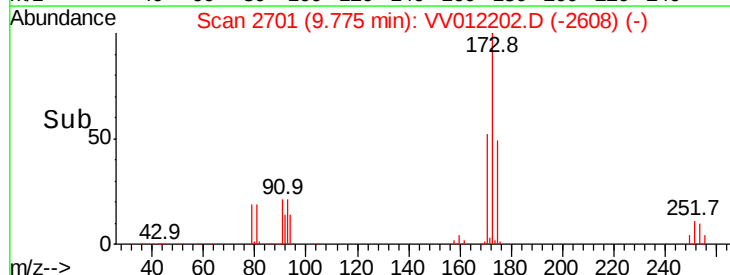
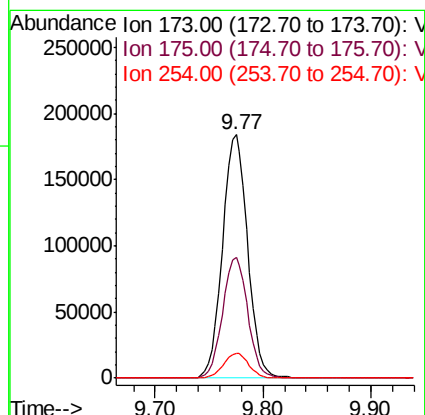
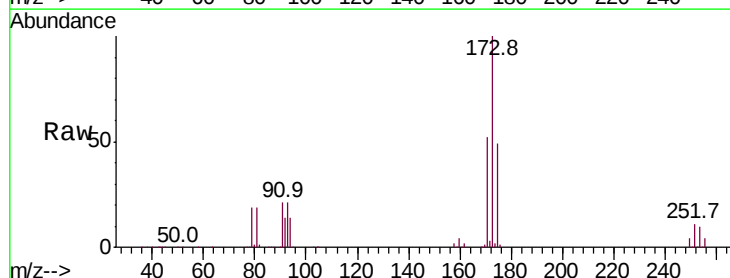
Tgt Ion:173 Resp: 297079

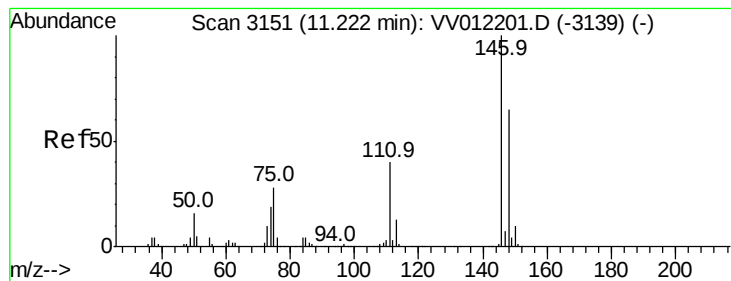
Ion Ratio Lower Upper

173 100

175 49.9 39.0 58.4

254 10.3 7.8 11.8





#62

1,3-Dichlorobenzene

Concen: 105.860 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. 0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

Instrument :

MSVOA_V

ClientSampleId :

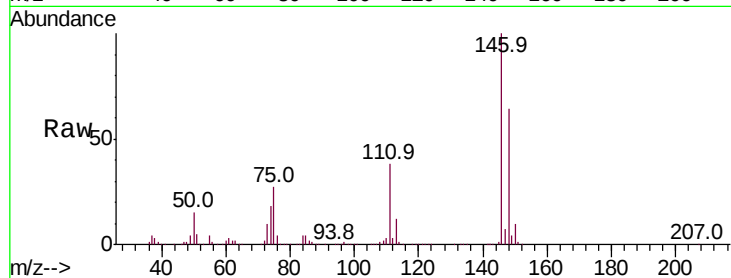
Tot Ion:146 Resp: 793276

Ion Ratio Lower Upper

146 100

111 38.2 27.7 51.5

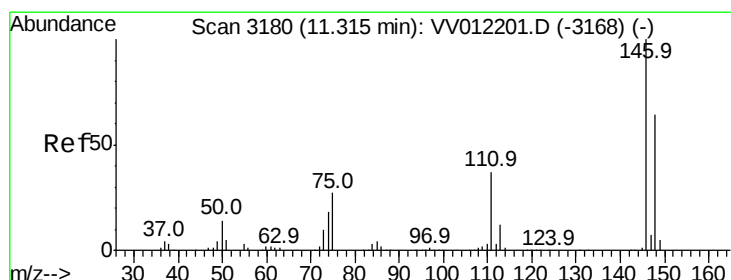
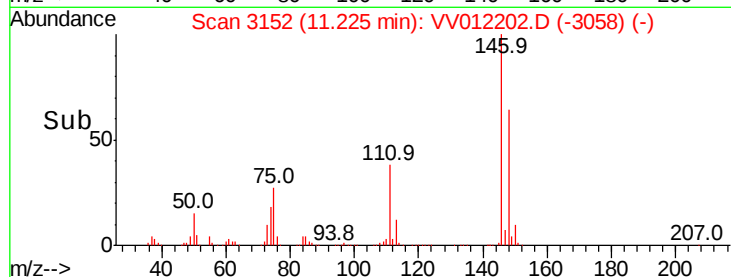
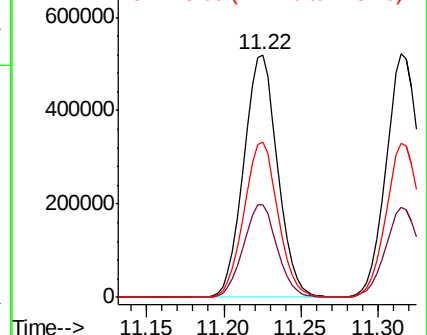
148 64.3 45.5 84.5



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: 106.632 ug/L

RT: 11.31 min Scan# 3180

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

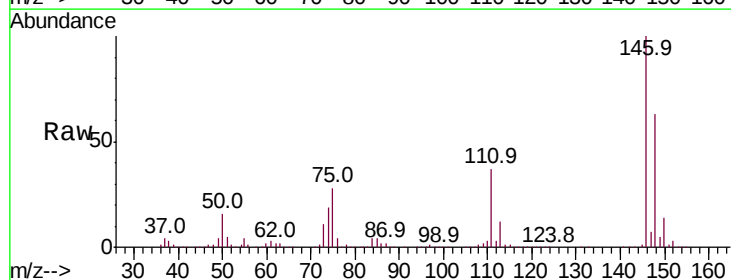
Tgt Ion:146 Resp: 802010

Ion Ratio Lower Upper

146 100

111 37.0 25.8 48.0

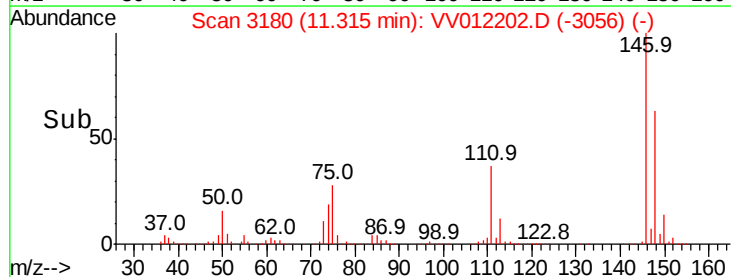
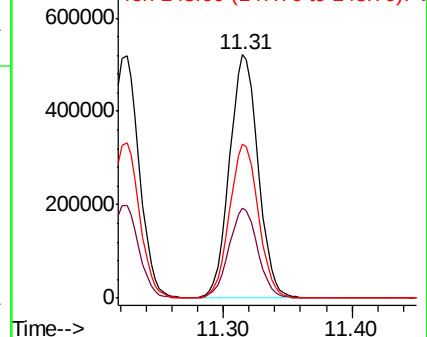
148 63.2 44.8 83.2

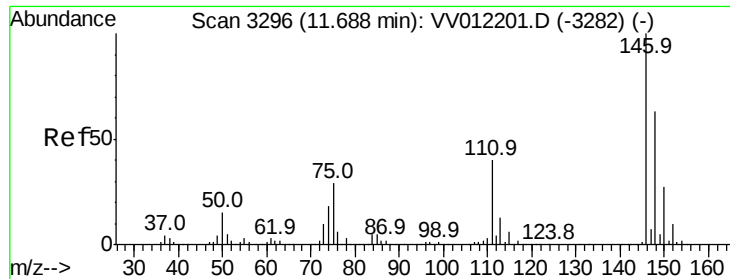


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 104.505 ug/L

RT: 11.69 min Scan# 3296

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

Instrument :

MSVOA_V

ClientSampleId :

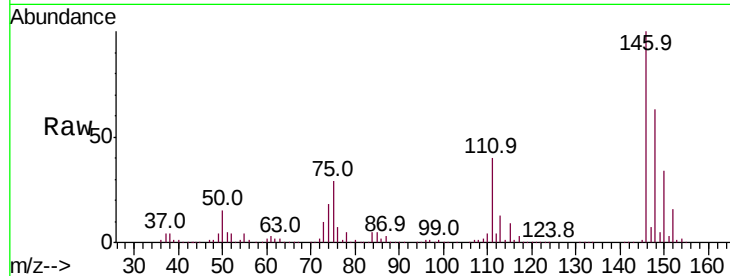
Tot Ion:146 Resp: 787922

Ion Ratio Lower Upper

146 100

111 40.4 31.8 47.6

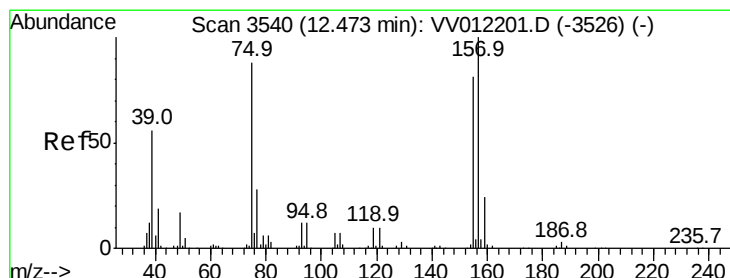
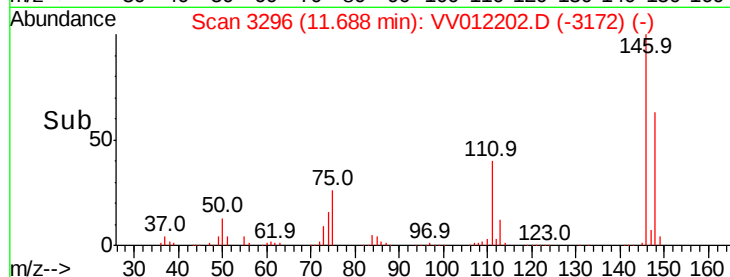
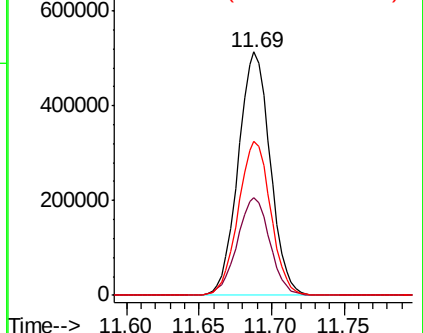
148 63.3 50.6 76.0



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: 109.136 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. -0.00 min

Lab File: VV012202.D

Acq: 12 Aug 2019 12:09

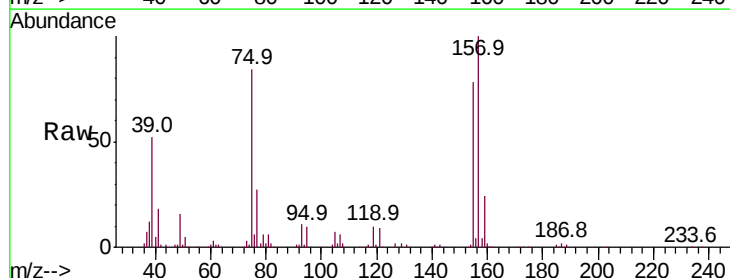
Tgt Ion: 75 Resp: 126441

Ion Ratio Lower Upper

75 100

155 92.7 73.9 110.9

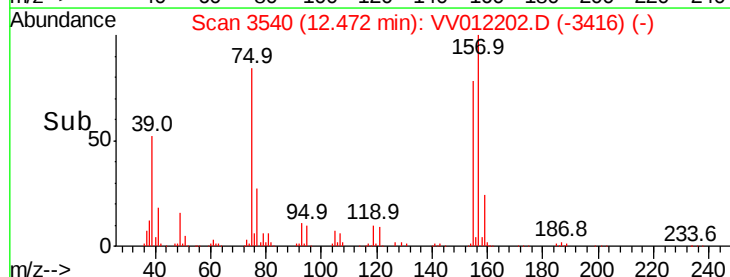
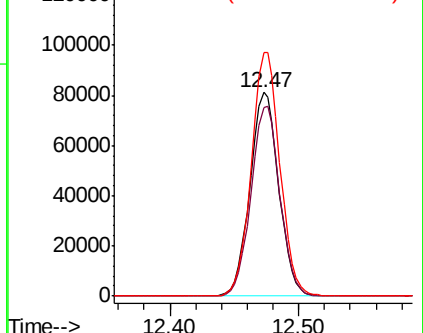
157 119.5 91.2 136.8

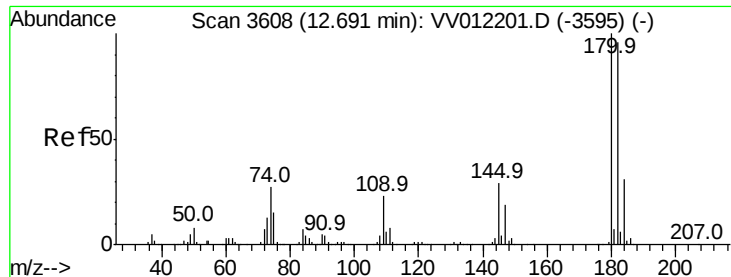


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

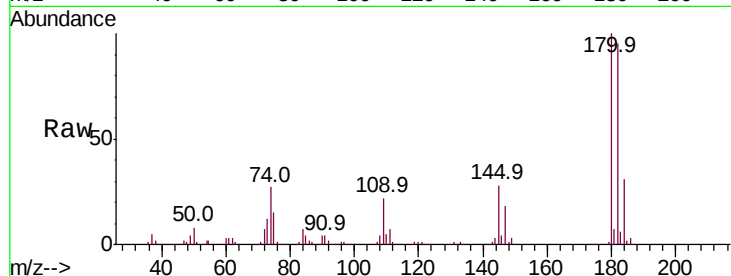




#67
 1,3,5-Trichlorobenzene
 Concen: 103.807 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.0	114.0
184	30.8	24.0	36.0
145	28.6	23.0	34.6



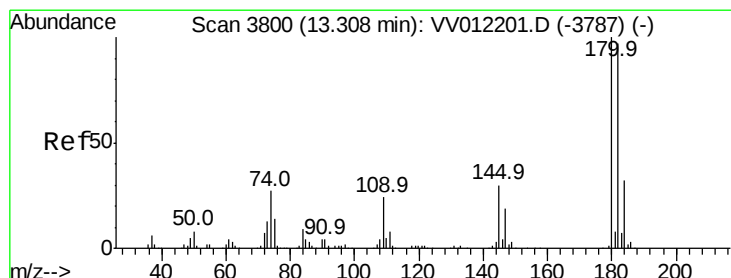
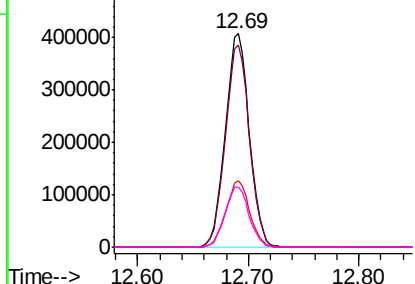
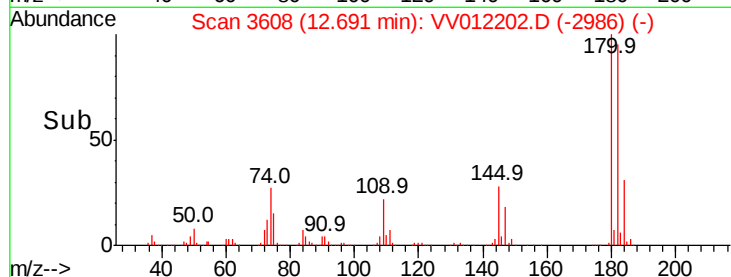
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

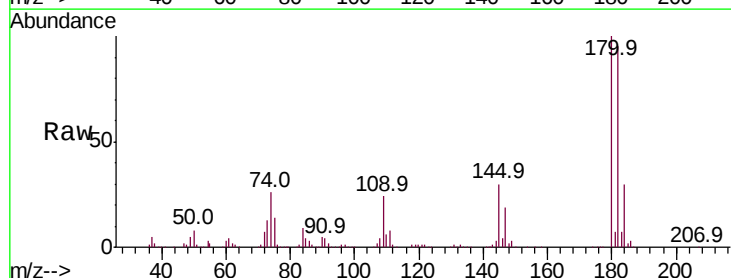
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 109.296 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. -0.00 min
 Lab File: VV012202.D
 Acq: 12 Aug 2019 12:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	76.6	115.0
145	29.5	23.8	35.6

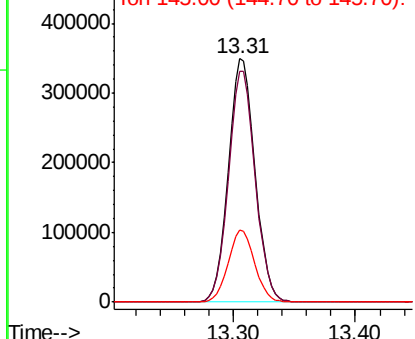
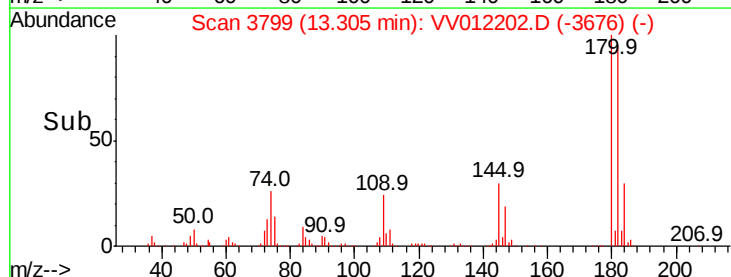


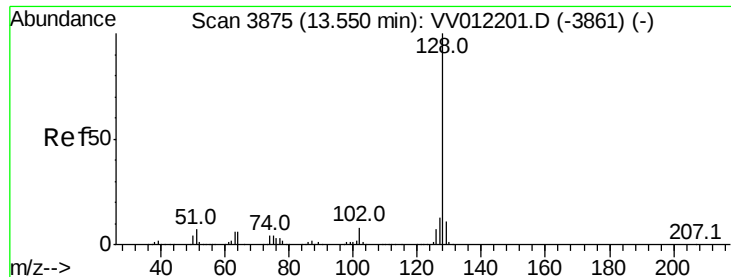
Abundance

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

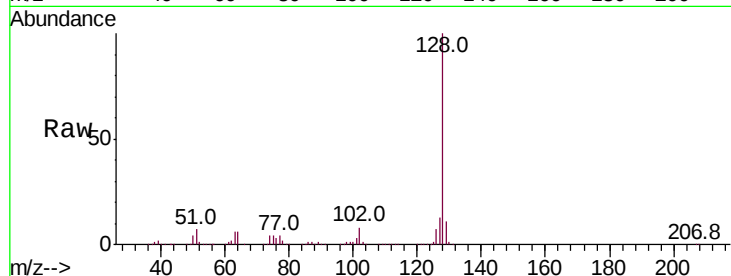




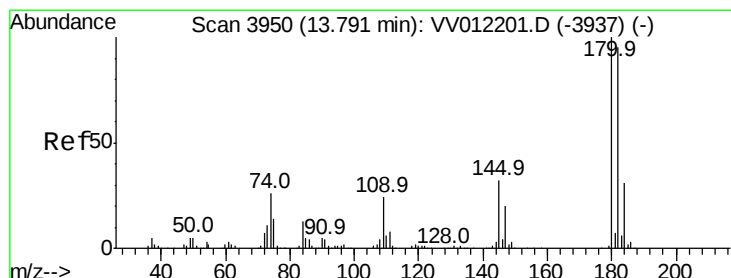
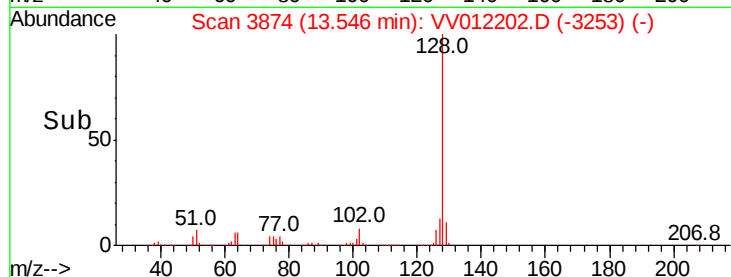
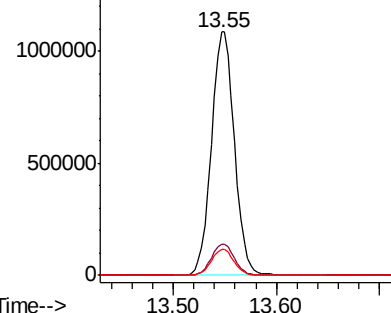
#69
Naphthalene
Concen: 123.747 ug/L
RT: 13.55 min Scan# 3874
Delta R.T. -0.00 min
Lab File: VV012202.D
Acq: 12 Aug 2019 12:09

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:128 Resp: 1682960
Ion Ratio Lower Upper
128 100
127 12.9 10.4 15.6
129 10.7 8.6 13.0

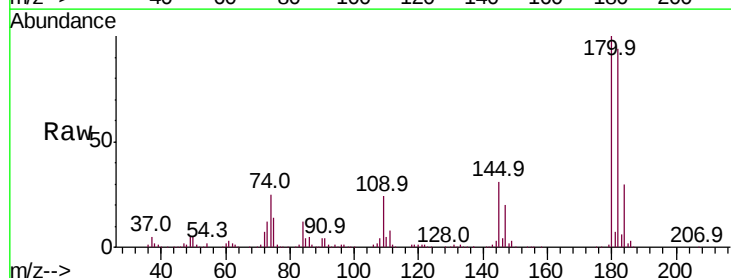


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#70
1,2,3-Trichlorobenzene
Concen: 107.026 ug/L
RT: 13.79 min Scan# 3950
Delta R.T. -0.00 min
Lab File: VV012202.D
Acq: 12 Aug 2019 12:09

Tgt Ion:180 Resp: 547497
Ion Ratio Lower Upper
180 100
182 94.5 75.4 113.2
145 31.0 25.0 37.4



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

