

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120219\
 Data File : VV013864.D
 Acq On : 02 Dec 2019 11:15
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 03 03:04:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Dec 03 02:59:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	733737	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	672409	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	387286	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	195202	46.00	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	92.00%
7) Chloroethane-d5	1.58	69	207055	46.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.48%
11) 1,1-Dichloroethene-d2	2.13	63	439503	46.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.68%
21) 2-Butanone-d5	3.92	46	292921	98.07	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.07%
24) Chloroform-d	4.39	84	418963	47.01	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.02%
26) 1,2-Dichloroethane-d4	5.07	65	263655	46.69	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.38%
32) Benzene-d6	5.09	84	858349	49.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.52%
36) 1,2-Dichloropropane-d6	6.11	67	259723	49.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.32%
41) Toluene-d8	7.35	98	785629	49.46	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.92%
43) trans-1,3-Dichloropropene-	7.66	79	121076	47.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.14%
47) 2-Hexanone-d5	8.12	63	196087	100.41	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.41%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	344441	45.48	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	90.96%
64) 1,2-Dichlorobenzene-d4	11.67	152	347588	45.70	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	303580	46.467	ug/L	99
3) Chloromethane	1.25	50	281546	47.137	ug/L	99
5) Vinyl chloride	1.32	62	283438	45.499	ug/L	99
6) Bromomethane	1.53	94	175103	46.491	ug/L	98
8) Chloroethane	1.60	64	194053	46.817	ug/L	99
9) Trichlorofluoromethane	1.77	101	448453	46.285	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	253838	45.999	ug/L	100
12) 1,1-Dichloroethene	2.14	96	240345	45.089	ug/L	96
13) Acetone	2.18	43	374479	85.554	ug/L	97
14) Carbon disulfide	2.32	76	634368	45.128	ug/L	99
15) Methyl Acetate	2.45	43	245810	45.567	ug/L	100
16) Methylene chloride	2.53	84	250635	45.152	ug/L	95
17) trans-1,2-Dichloroethene	2.79	96	243392	46.682	ug/L	98
18) Methyl tert-butyl Ether	2.80	73	706514	46.694	ug/L	99
19) 1,1-Dichloroethane	3.23	63	436913	46.512	ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	263715	46.706	ug/L	98
22) 2-Butanone	4.00	43	383115	91.190	ug/L	99

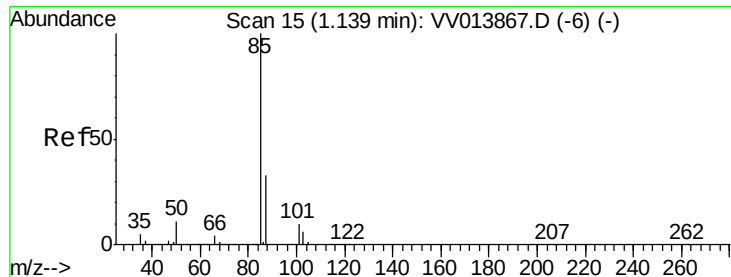
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120219\
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 Quant Title : VOC Analysis
 QLast Update : Tue Dec 03 02:59:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	145691	46.704	ug/L	96
25) Chloroform	4.42	83	468483	46.651	ug/L	99
27) 1,2-Dichloroethane	5.17	62	341392	47.179	ug/L	98
29) Cyclohexane	4.72	56	387691	49.350	ug/L	100
30) 1,1,1-Trichloroethane	4.65	97	386342	47.594	ug/L	99
31) Carbon tetrachloride	4.87	117	351609	48.490	ug/L	99
33) Benzene	5.14	78	986888	49.284	ug/L	100
34) Trichloroethene	5.95	95	256867	47.827	ug/L	98
35) Methylcyclohexane	6.17	83	404829	50.238	ug/L	99
37) 1,2-Dichloropropane	6.22	63	245569	50.670	ug/L	100
38) Bromodichloromethane	6.55	83	332250	48.341	ug/L	99
39) cis-1,3-Dichloropropene	7.06	75	374386	49.070	ug/L	99
40) 4-Methyl-2-pentanone	7.26	43	603887	95.823	ug/L	98
42) Toluene	7.42	91	1018258	49.285	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	335504	48.561	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	232570	48.345	ug/L	98
46) Tetrachloroethene	8.01	164	233063	48.090	ug/L	97
48) 2-Hexanone	8.17	43	482979	95.804	ug/L	95
49) Dibromochloromethane	8.28	129	282402	48.024	ug/L	100
50) 1,2-Dibromoethane	8.39	107	251751	47.506	ug/L	99
51) Chlorobenzene	8.92	112	682296	47.867	ug/L	98
52) Ethylbenzene	9.05	91	1110126	48.740	ug/L	99
53) m,p-Xylene	9.18	106	439307	49.877	ug/L	98
54) o-xylene	9.58	106	420716	48.854	ug/L	99
55) Styrene	9.60	104	753226	50.695	ug/L	99
56) Isopropylbenzene	9.97	105	1125285	48.613	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	355628	45.410	ug/L	100
59) 1,2,3-Trichloropropane	10.31	75	291040	44.376	ug/L	99
61) Bromoform	9.77	173	226860	47.885	ug/L	98
62) 1,3-Dichlorobenzene	11.22	146	588754	46.330	ug/L	100
63) 1,4-Dichlorobenzene	11.31	146	605286	46.073	ug/L	98
65) 1,2-Dichlorobenzene	11.68	146	586246	46.119	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	78630	44.509	ug/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	469089	45.456	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	412144	44.262	ug/L	100
69) Naphthalene	13.55	128	1092323	44.677	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	445031	45.701	ug/L	100

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



#2

Dichlorodifluoromethane

Concen: 46.467 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

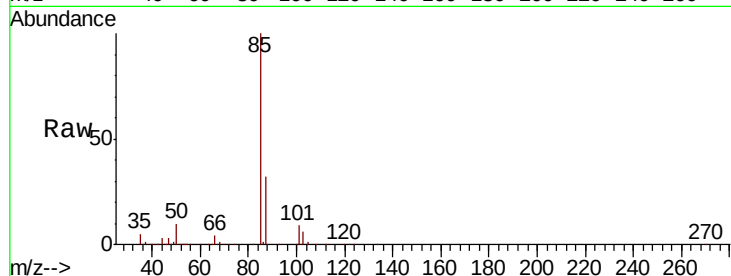
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 303580

Ion Ratio Lower Upper

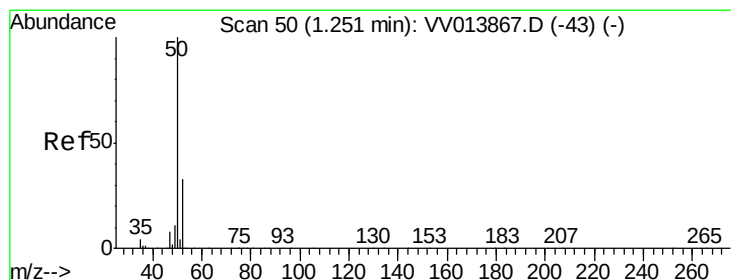
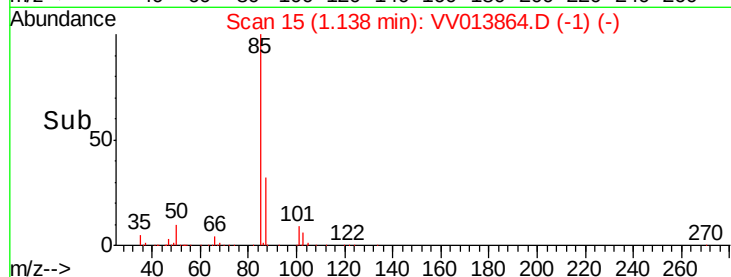
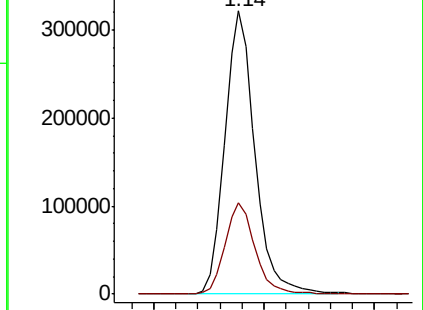
85 100

87 32.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VV013867.D (-6) (-)

Ion 87.00 (86.70 to 87.70): VV013867.D (-6) (-)



#3

Chloromethane

Concen: 47.137 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV013864.D

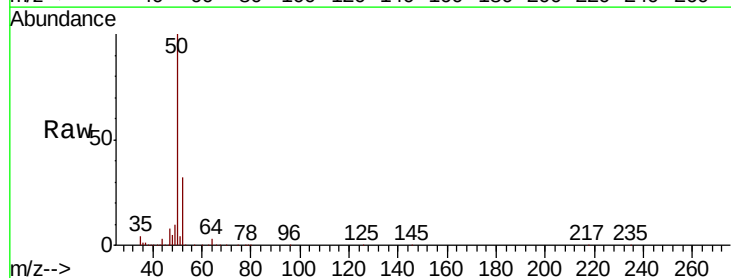
Acq: 02 Dec 2019 11:15

Tgt Ion: 50 Resp: 281546

Ion Ratio Lower Upper

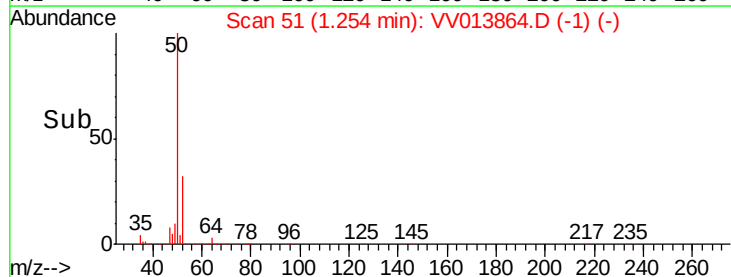
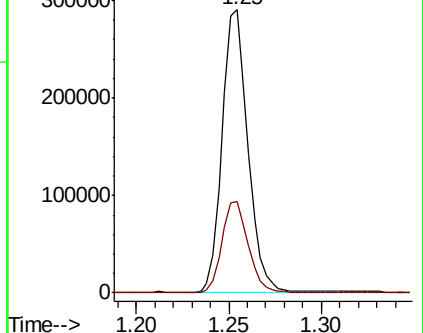
50 100

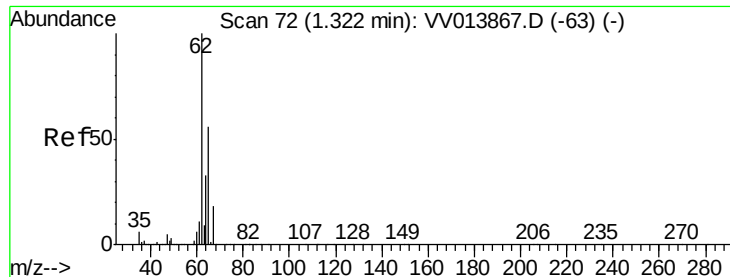
52 32.2 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV013867.D (-43) (-)

Ion 52.00 (51.70 to 52.70): VV013867.D (-43) (-)





#5

Vinyl chloride

Concen: 45.499 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Instrument :

MSVOA_V

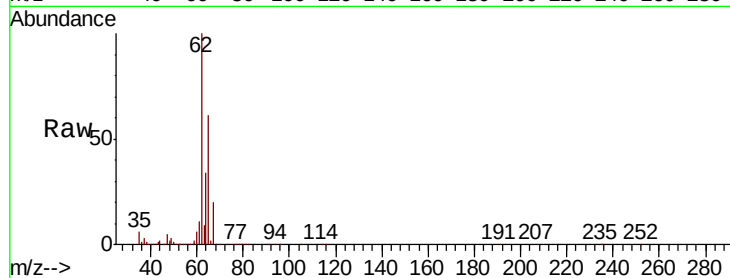
ClientSampleId :

Tot Ion: 62 Resp: 283438

Ion Ratio Lower Upper

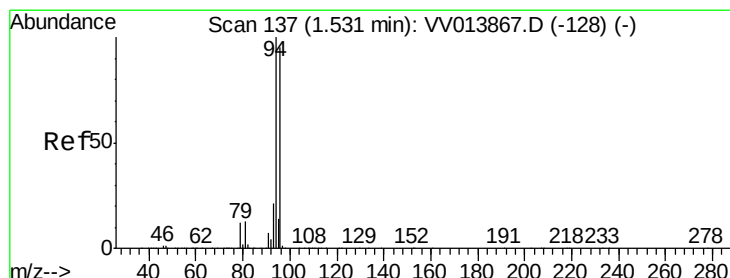
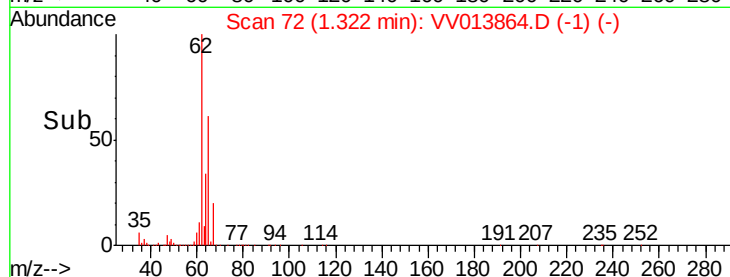
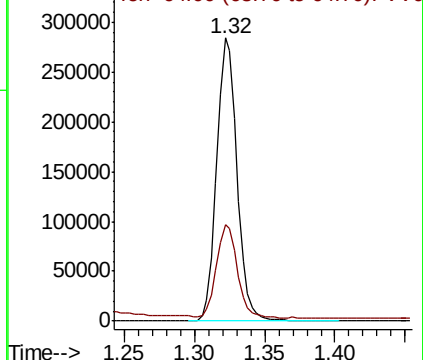
62 100

64 34.0 24.1 44.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 46.491 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV013864.D

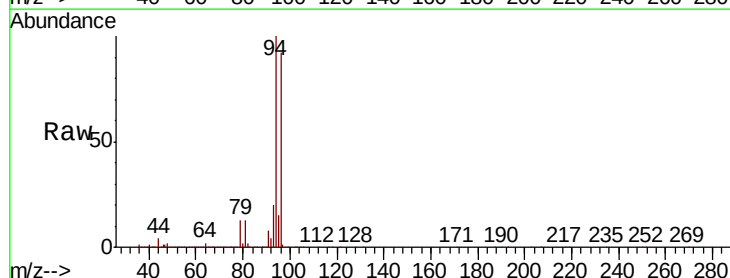
Acq: 02 Dec 2019 11:15

Tgt Ion: 94 Resp: 175103

Ion Ratio Lower Upper

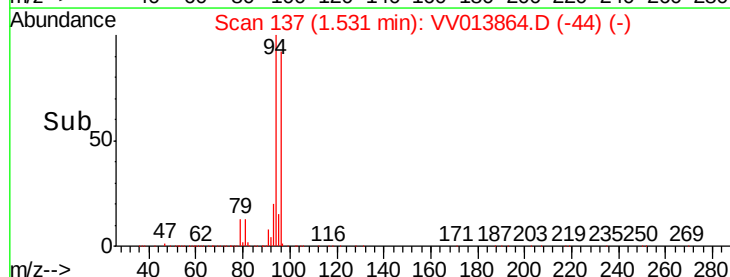
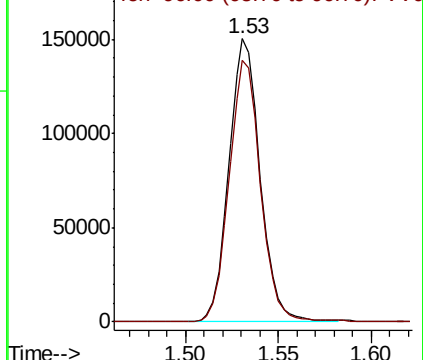
94 100

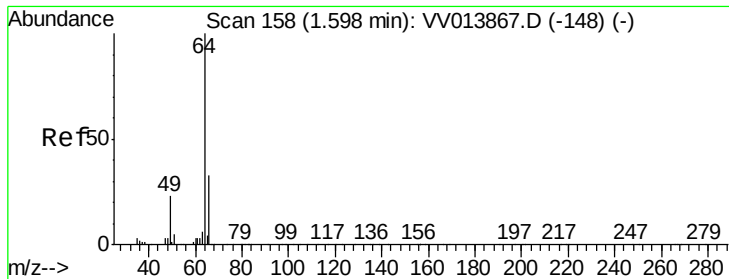
96 92.3 66.2 123.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

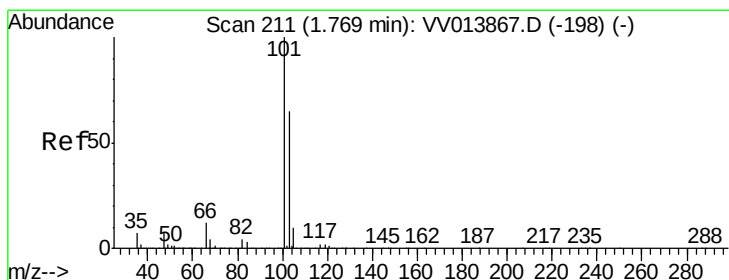
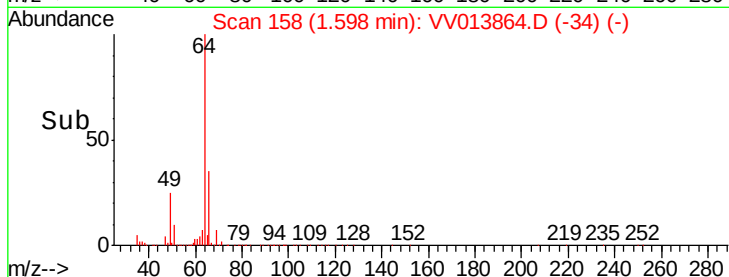
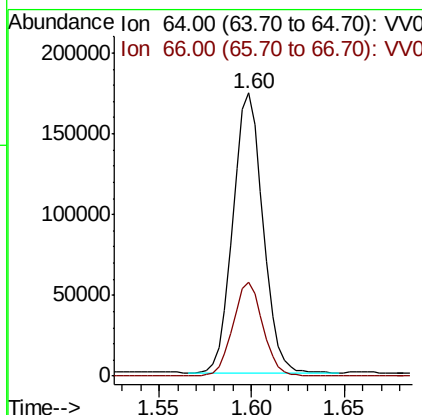
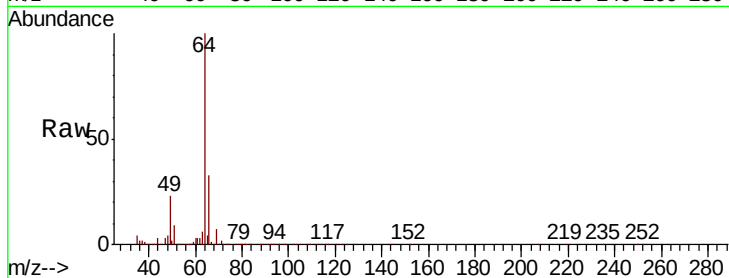




#8
Chloroethane
Concen: 46.817 ug/L
RT: 1.60 min Scan# 158
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

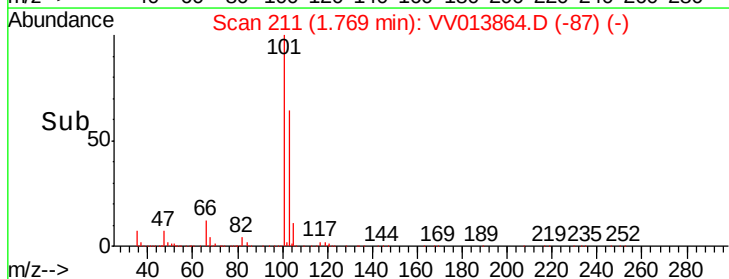
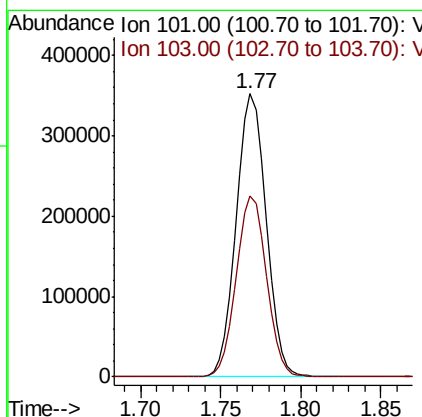
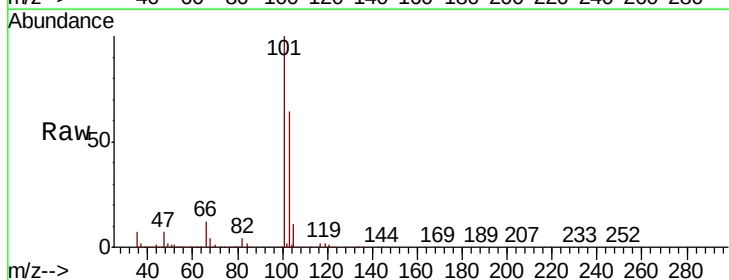
Instrument :
MSVOA_V
ClientSampleId :

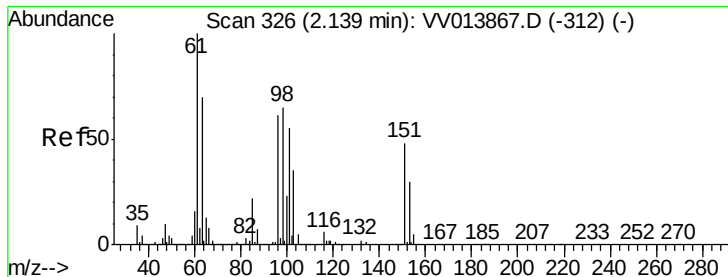
Tot Ion: 64 Resp: 194053
Ion Ratio Lower Upper
64 100
66 33.1 22.7 42.1



#9
Trichlorofluoromethane
Concen: 46.285 ug/L
RT: 1.77 min Scan# 211
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

Tgt Ion: 101 Resp: 448453
Ion Ratio Lower Upper
101 100
103 64.3 51.9 77.9





#10

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

Concen: 45.999 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Instrument :

MSVOA_V

ClientSampled :

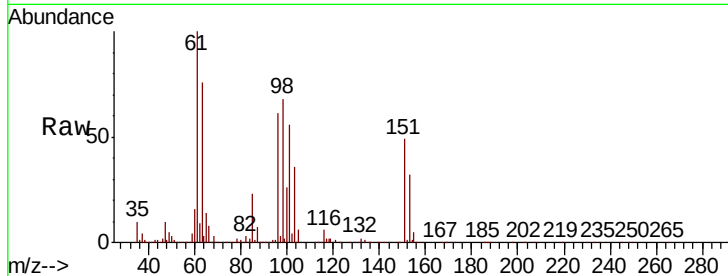
Tot Ion:101 Resp: 253838

Ion Ratio Lower Upper

101 100

85 40.3 32.5 48.7

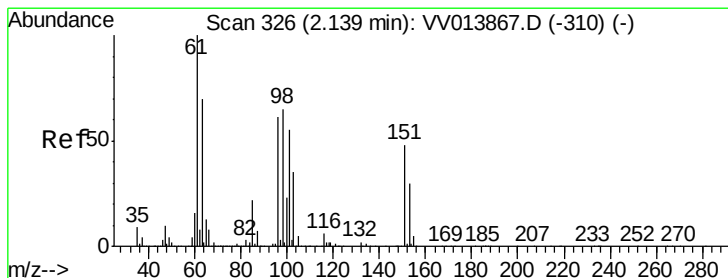
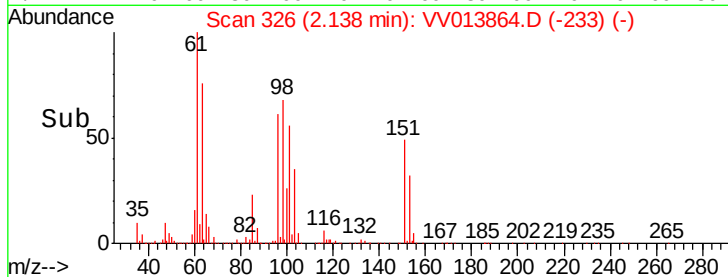
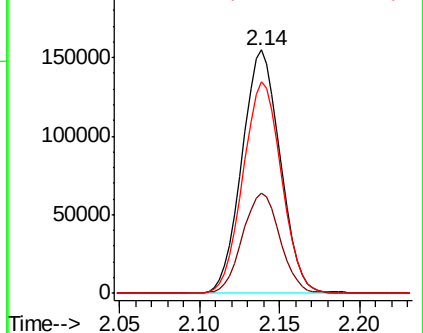
151 87.5 69.8 104.6



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: 45.089 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

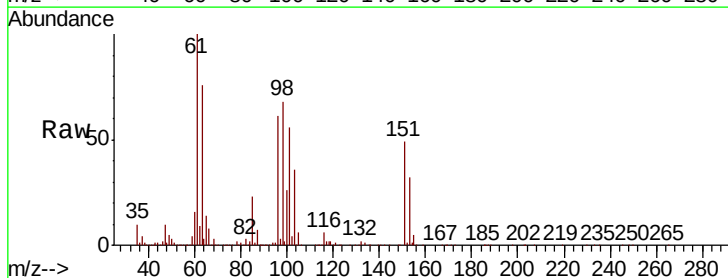
Tgt Ion: 96 Resp: 240345

Ion Ratio Lower Upper

96 100

61 164.4 114.0 211.8

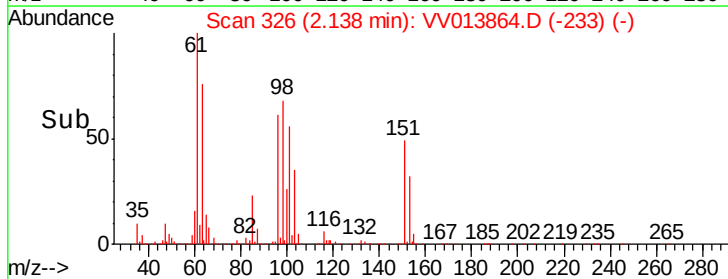
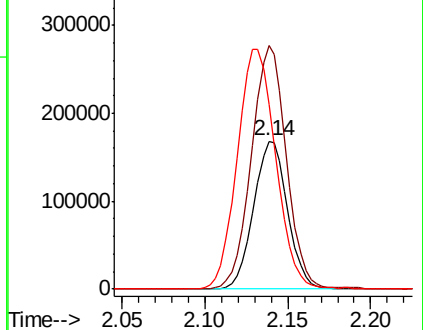
63 124.5 80.3 149.1

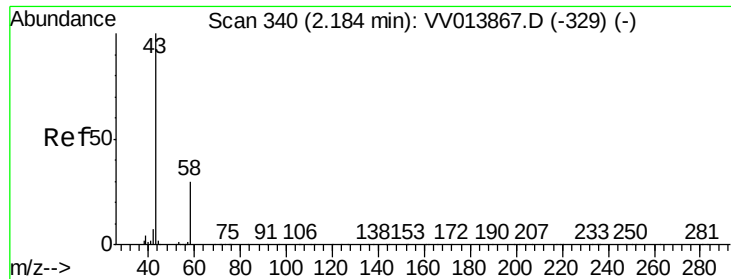


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 85.554 ug/L

RT: 2.18 min Scan# 340

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Instrument :

MSVOA_V

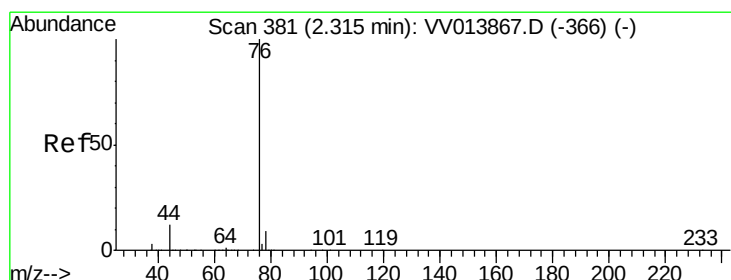
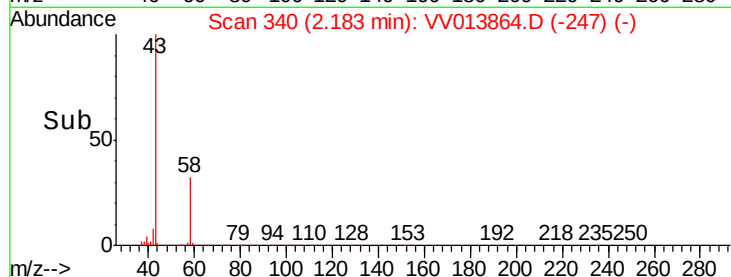
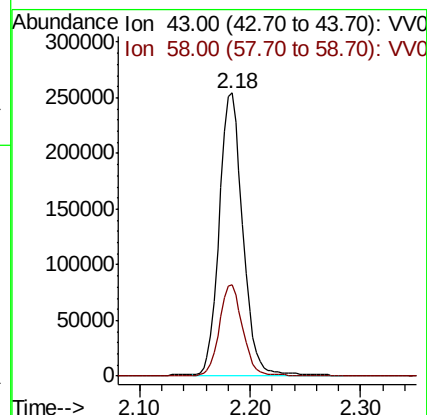
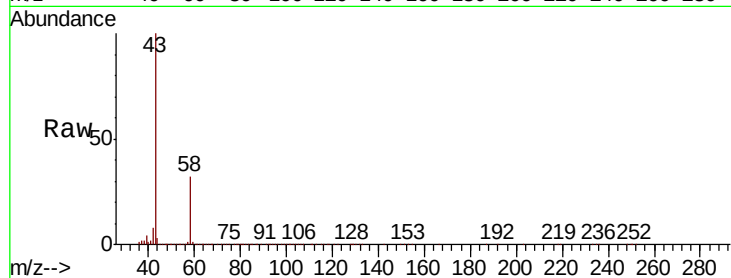
ClientSampleId :

Tot Ion: 43 Resp: 374479

Ion Ratio Lower Upper

43 100

58 32.2 0.0 60.8



#14

Carbon disulfide

Concen: 45.128 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV013864.D

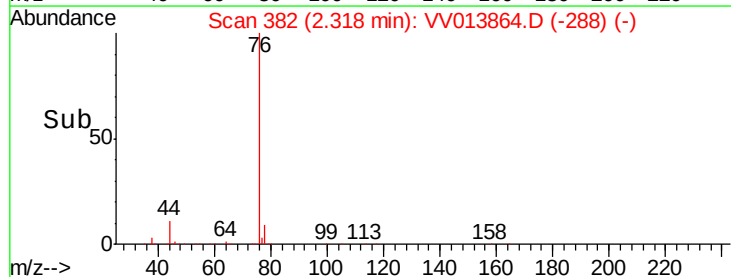
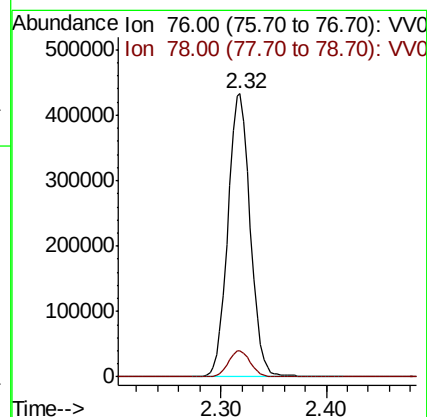
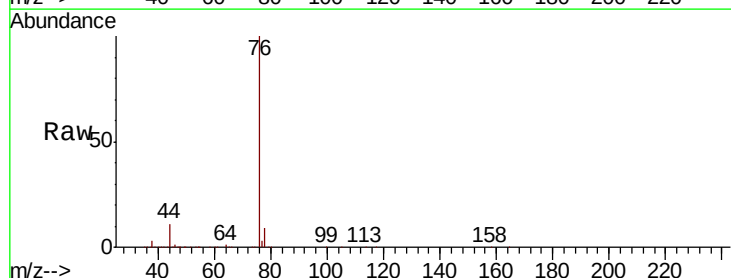
Acq: 02 Dec 2019 11:15

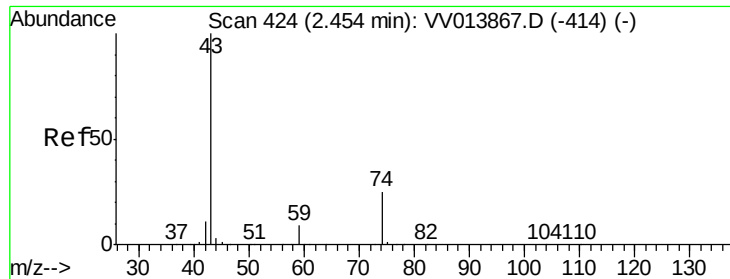
Tgt Ion: 76 Resp: 634368

Ion Ratio Lower Upper

76 100

78 9.3 7.2 10.8

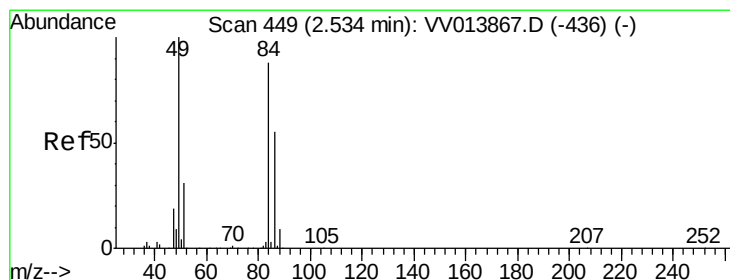
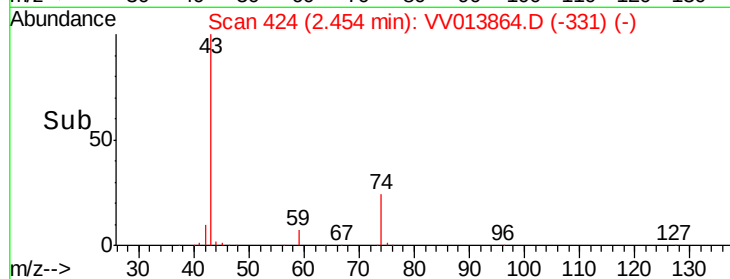
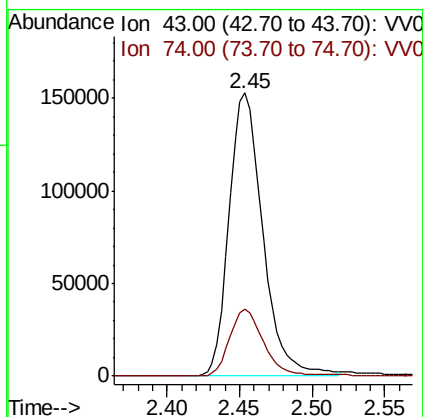
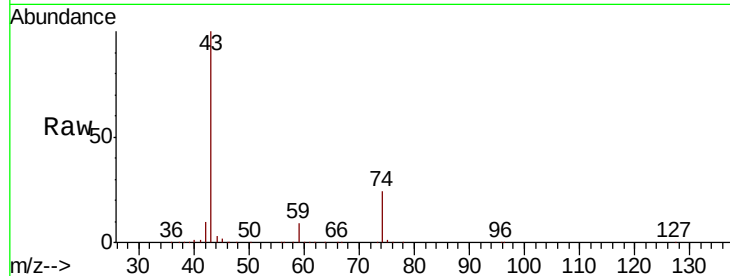




#15
Methvl Acetate
Concen: 45.567 ug/L
RT: 2.45 min Scan# 424
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

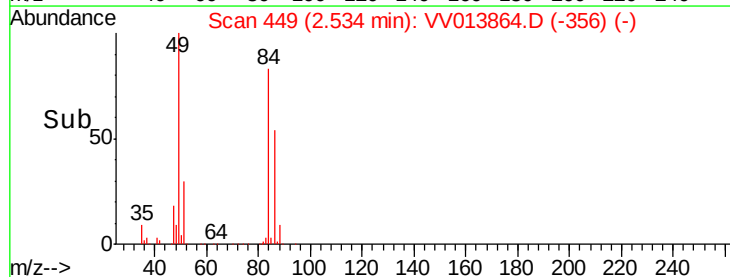
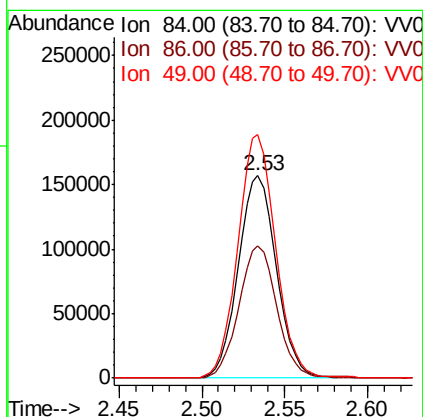
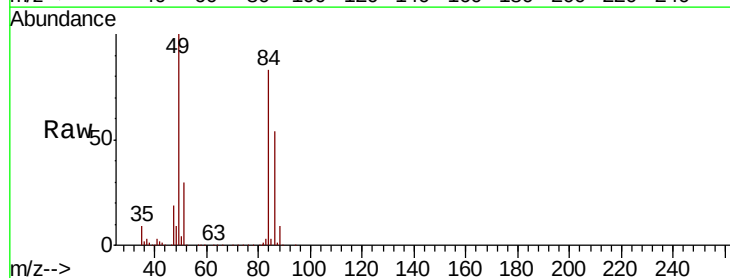
Instrument :
MSVOA_V
ClientSampleId :

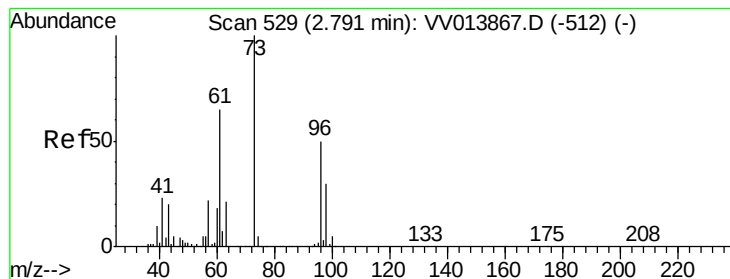
Tot Ion: 43 Resp: 245810
Ion Ratio Lower Upper
43 100
74 23.9 19.3 28.9



#16
Methylene chloride
Concen: 45.152 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

Tgt Ion: 84 Resp: 250635
Ion Ratio Lower Upper
84 100
86 65.4 43.9 81.5
49 120.4 79.7 147.9





#17

trans-1,2-Dichloroethene

Concen: 46.682 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Instrument :
MSVOA_V
ClientSampled :

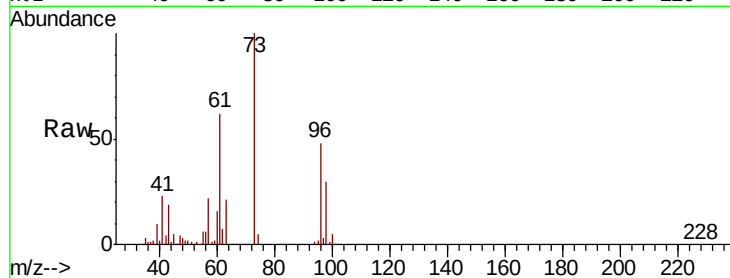
Tot Ion: 96 Resp: 243392

Ion Ratio Lower Upper

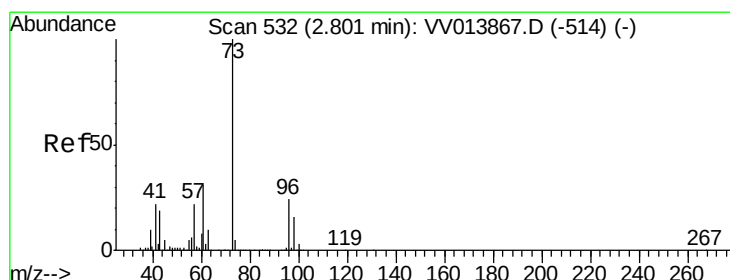
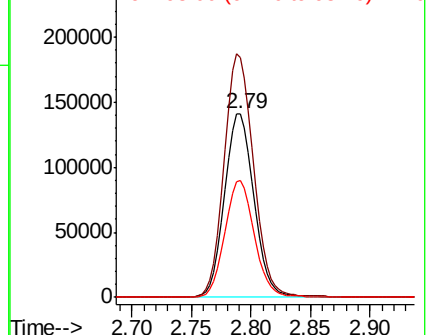
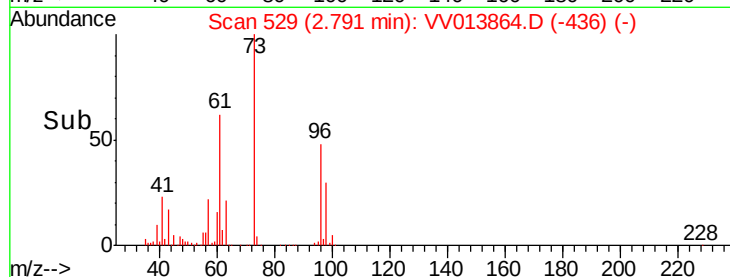
96 100

61 130.2 92.2 171.2

98 63.8 42.6 79.2



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 46.694 ug/L

RT: 2.80 min Scan# 531

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

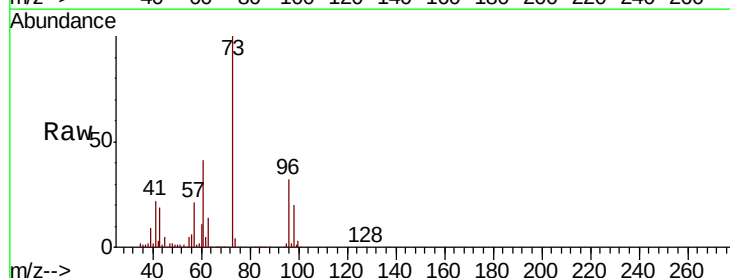
Tgt Ion: 73 Resp: 706514

Ion Ratio Lower Upper

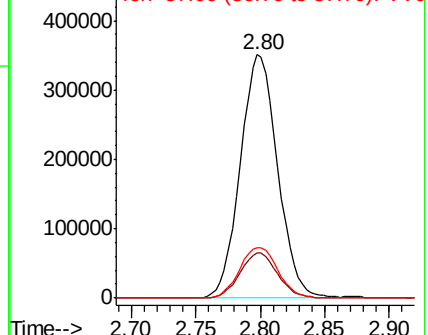
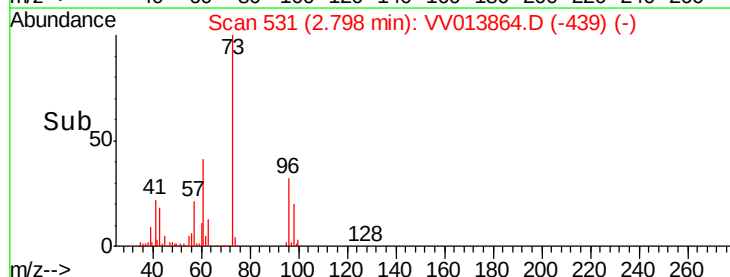
73 100

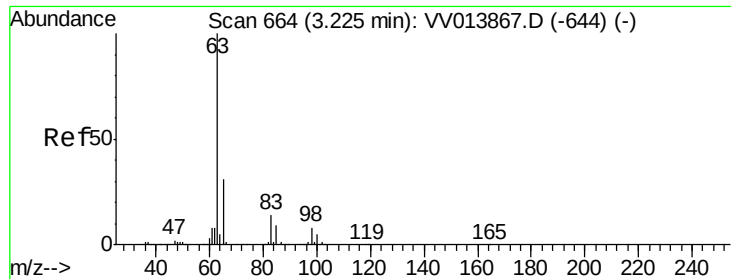
43 18.5 15.0 22.6

57 21.4 17.4 26.2



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





#19

1,1-Dichloroethane

Concen: 46.512 ug/L

RT: 3.23 min Scan# 664

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Instrument :
MSVOA_V
ClientSampled :

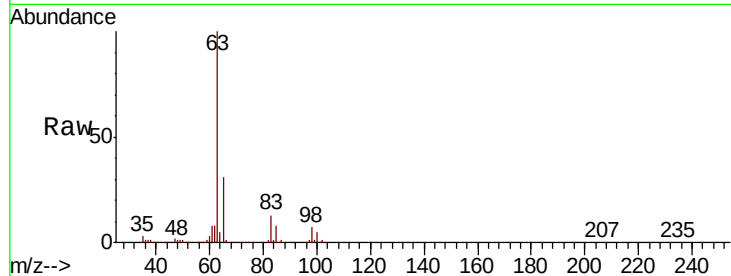
Tot Ion: 63 Resp: 436913

Ion Ratio Lower Upper

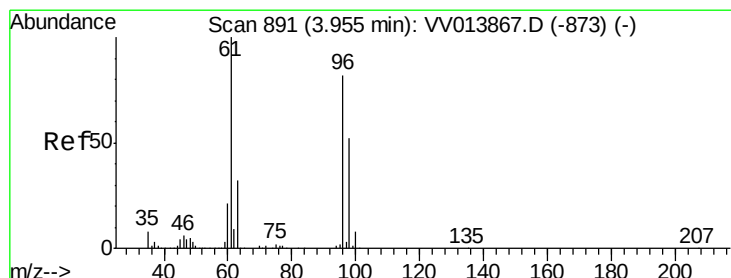
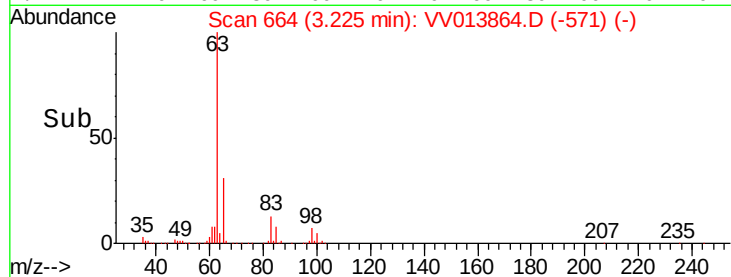
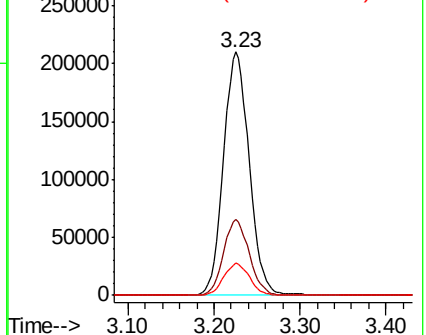
63 100

65 31.3 21.5 39.9

83 13.1 9.7 18.1



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: 46.706 ug/L

RT: 3.96 min Scan# 891

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

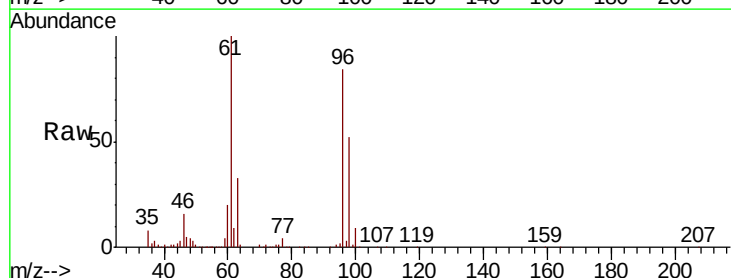
Tgt Ion: 96 Resp: 263715

Ion Ratio Lower Upper

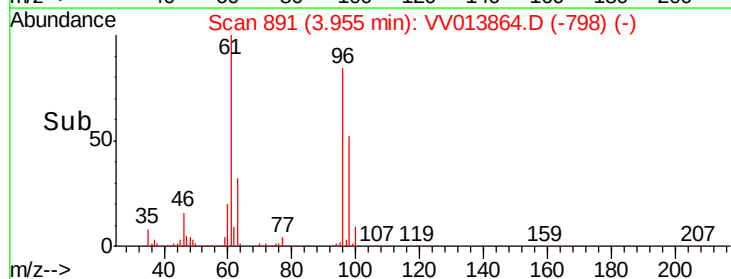
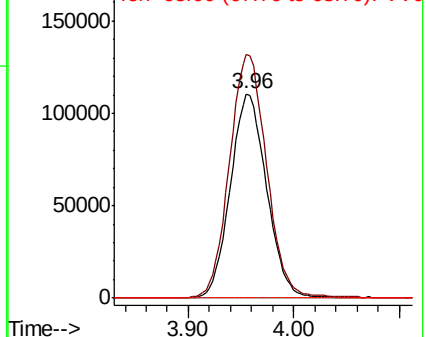
96 100

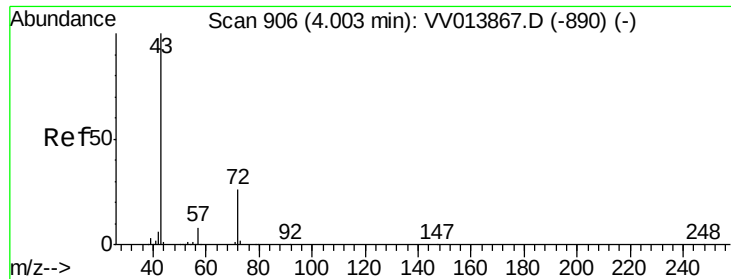
61 119.3 85.3 158.5

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: 91.190 ug/L

RT: 4.00 min Scan# 905

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

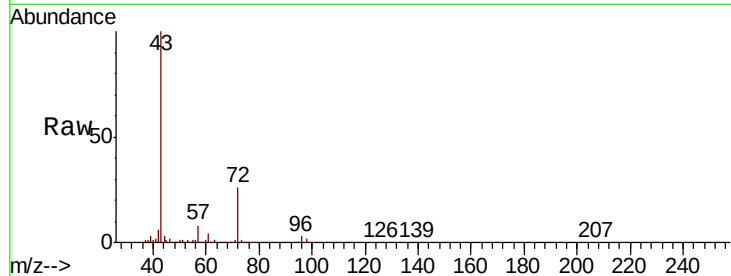
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 383115

Ion Ratio Lower Upper

43 100

72 27.5 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VV013867.D (-890) (-)

Ion 72.00 (71.70 to 72.70): VV013867.D (-890) (-)

4.00

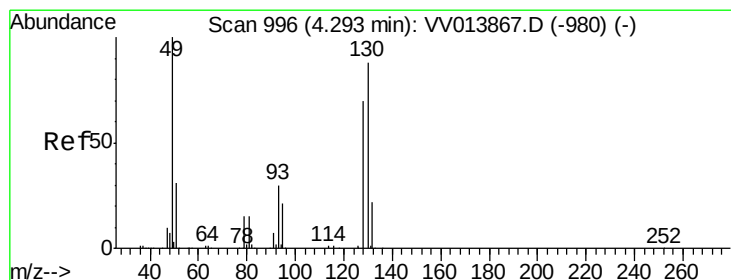
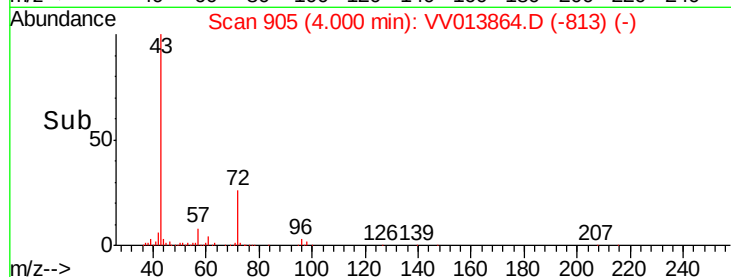
150000

100000

50000

0

Time-->



#23

Bromochloromethane

Concen: 46.704 ug/L

RT: 4.29 min Scan# 996

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Tgt Ion: 128 Resp: 145691

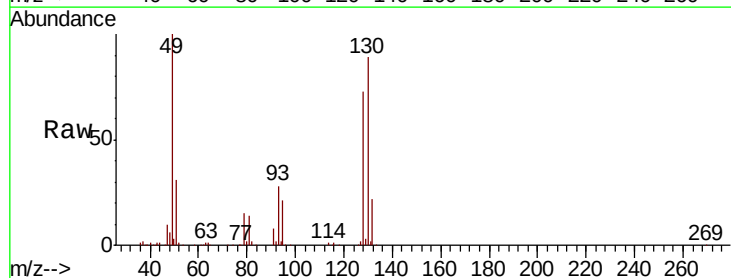
Ion Ratio Lower Upper

128 100

49 137.9 100.4 186.4

130 122.6 88.3 163.9

51 43.4 35.8 53.8



Abundance Ion 128.00 (127.70 to 128.70): VV013867.D (-980) (-)

Ion 49.00 (48.70 to 49.70): VV013867.D (-980) (-)

Ion 130.00 (129.70 to 130.70): VV013867.D (-980) (-)

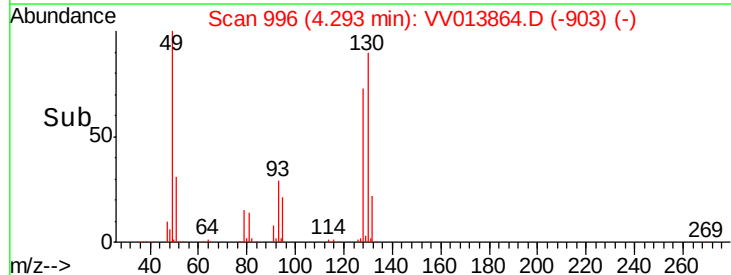
Ion 51.00 (50.70 to 51.70): VV013867.D (-980) (-)

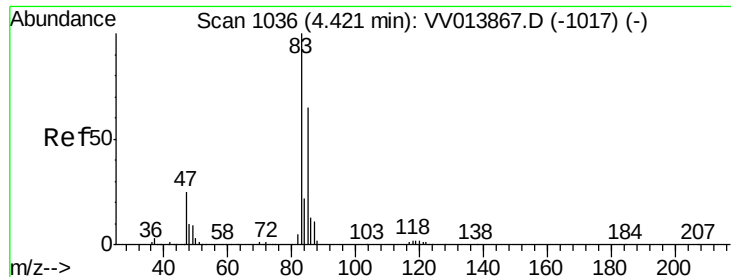
100000

50000

0

Time-->

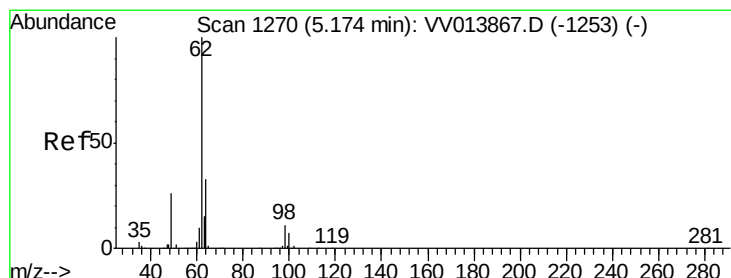
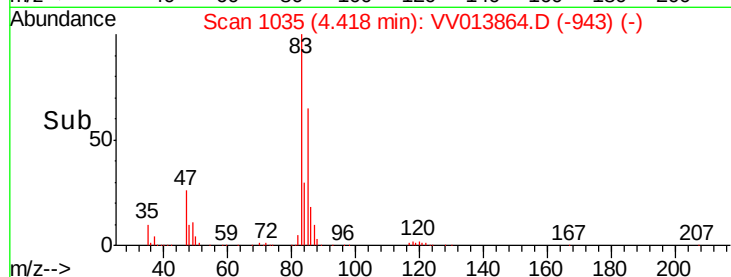
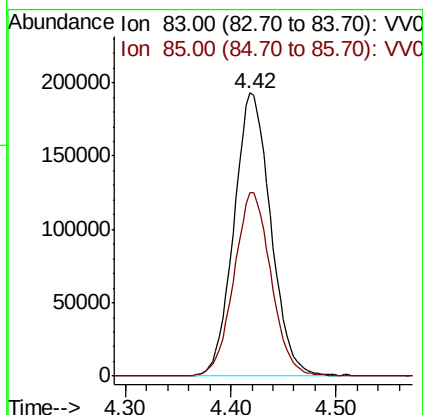
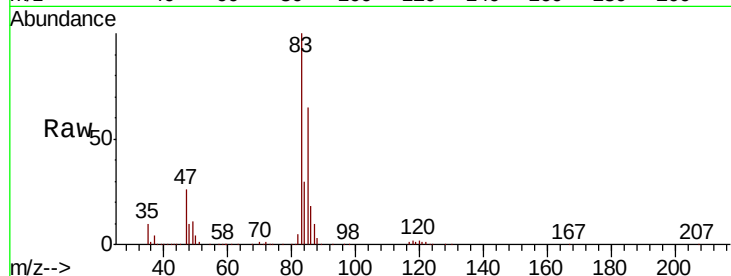




#25
Chloroform
Concen: 46.651 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

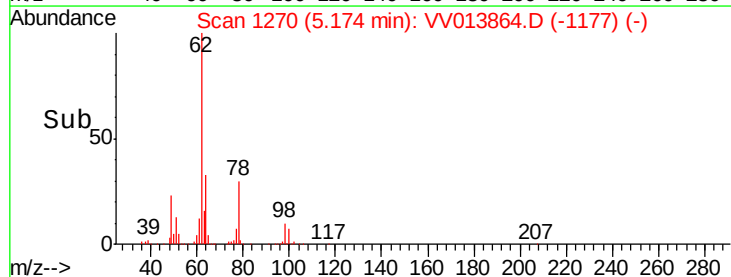
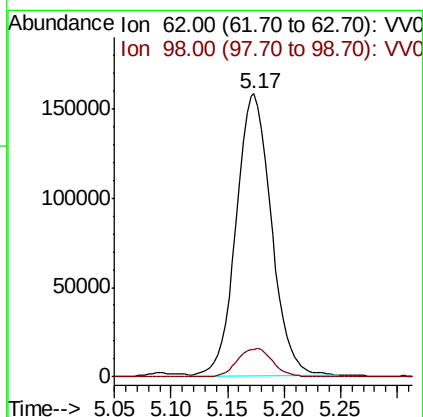
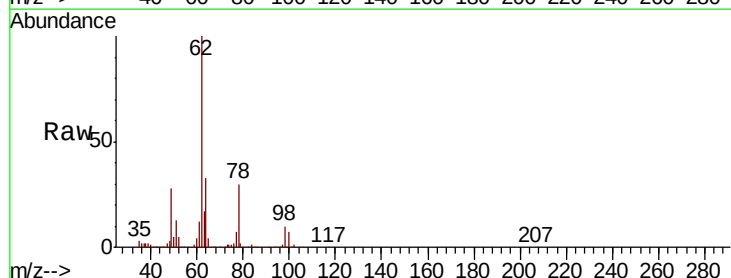
Instrument :
MSVOA_V
ClientSampleId :

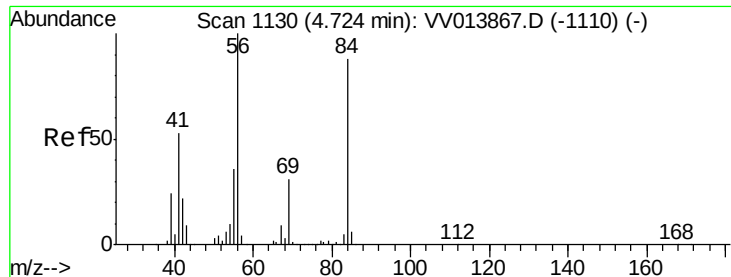
Tot Ion: 83 Resp: 468483
Ion Ratio Lower Upper
83 100
85 64.6 45.7 84.9



#27
1,2-Dichloroethane
Concen: 47.179 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

Tgt Ion: 62 Resp: 341392
Ion Ratio Lower Upper
62 100
98 9.9 8.5 12.7

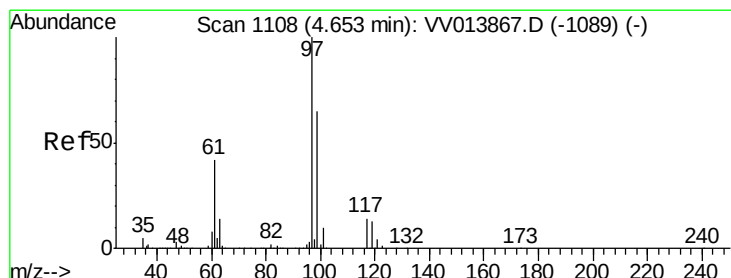
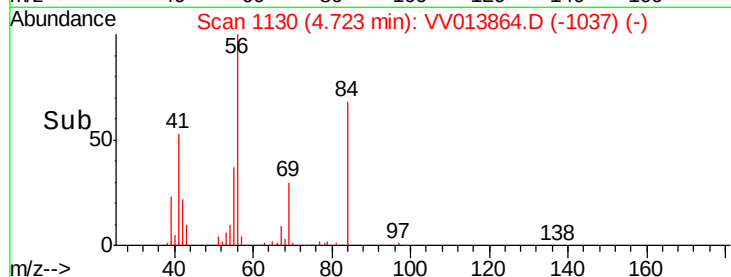
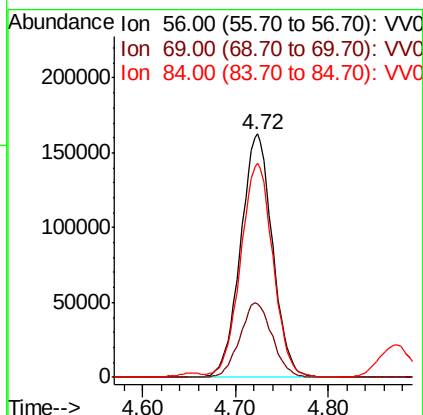
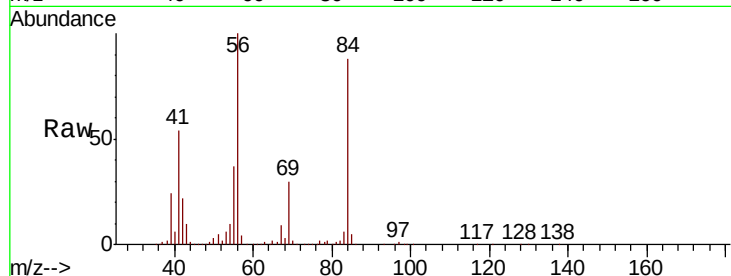




#29
Cyclohexane
Concen: 49.350 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

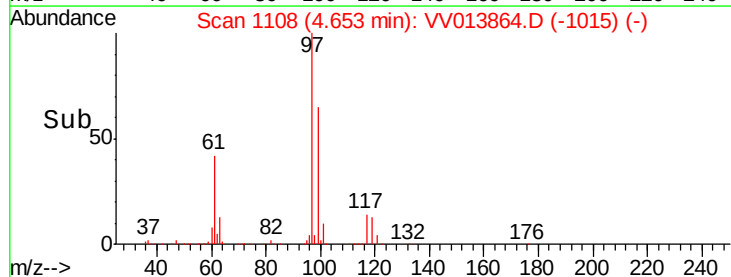
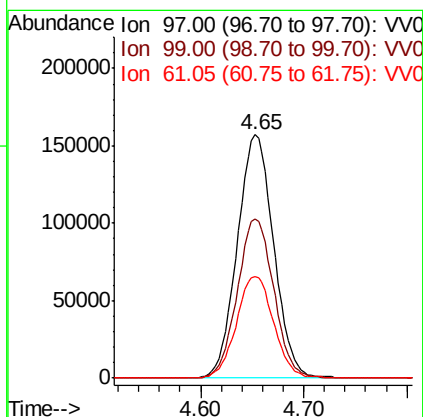
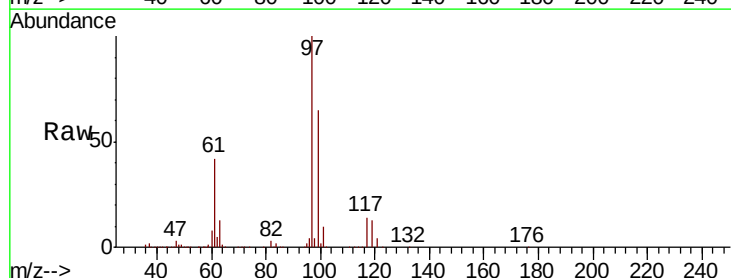
Instrument :
MSVOA_V
ClientSampleId :

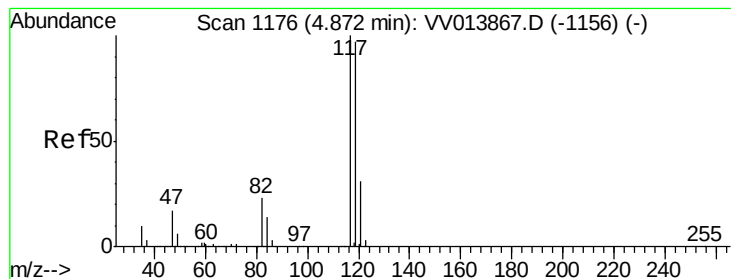
Tot Ion: 56 Resp: 387691
Ion Ratio Lower Upper
56 100
69 30.9 24.9 37.3
84 89.0 71.0 106.4



#30
1,1,1-Trichloroethane
Concen: 47.594 ug/L
RT: 4.65 min Scan# 1108
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

Tgt Ion: 97 Resp: 386342
Ion Ratio Lower Upper
97 100
99 65.4 51.4 77.2
61 42.5 33.2 49.8





#31

Carbon tetrachloride

Concen: 48.490 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Instrument :

MSVOA_V

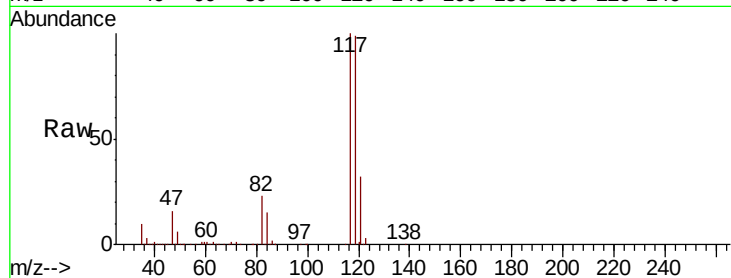
ClientSampleId :

Tot Ion:117 Resp: 351609

Ion Ratio Lower Upper

117 100

119 98.3 77.9 116.9



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

150000

100000

50000

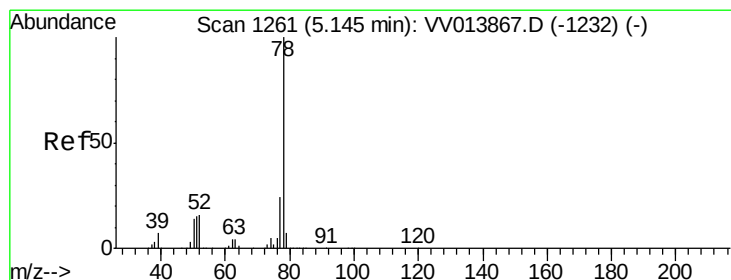
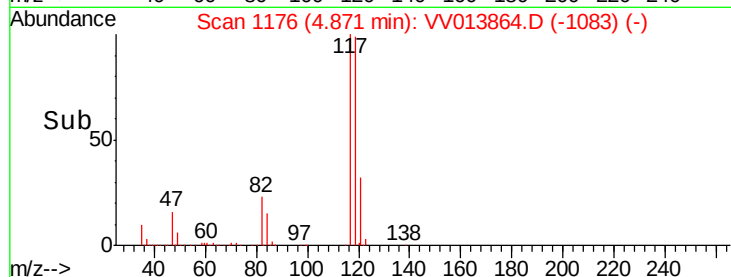
0

4.87

4.80

4.90

Time-->



#33

Benzene

Concen: 49.284 ug/L

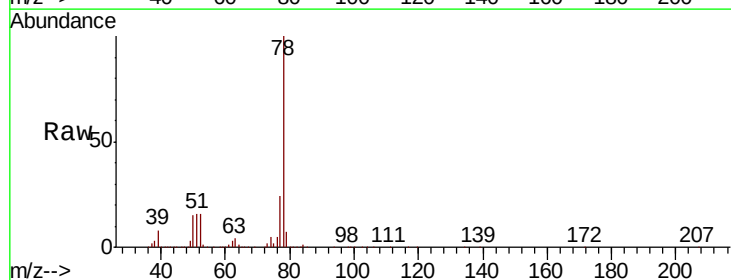
RT: 5.14 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Tgt Ion: 78 Resp: 986888



Abundance Ion 78.00 (77.70 to 78.70): VV0

500000

400000

300000

200000

100000

0

5.14

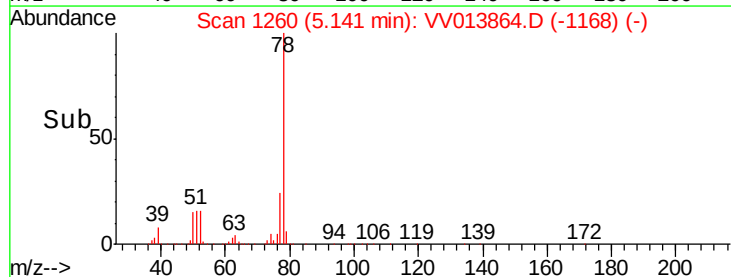
5.00

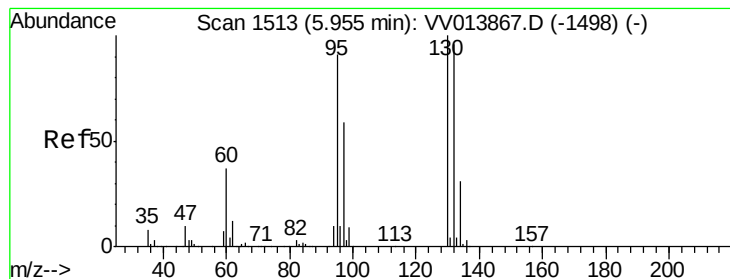
5.10

5.20

5.30

Time-->





#34

Trichloroethene

Concen: 47.827 ug/L

RT: 5.95 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 256867

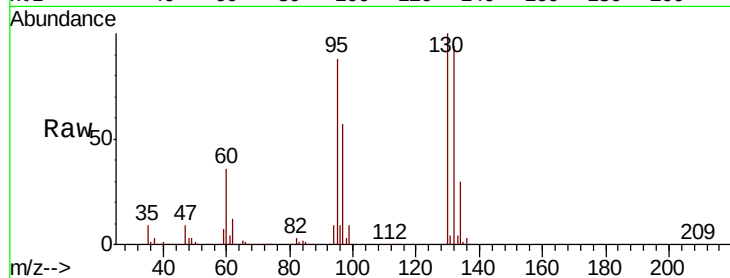
Ion Ratio Lower Upper

95 100

97 65.6 45.4 84.4

132 107.3 73.7 136.9

130 114.3 77.1 143.1

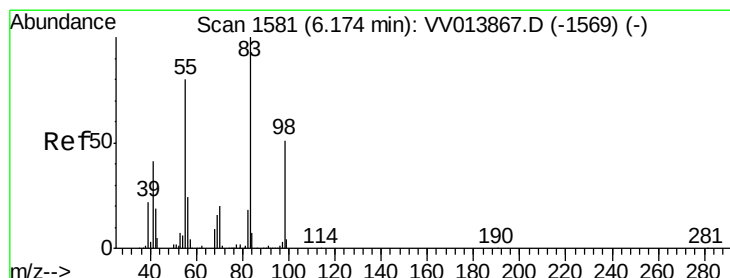
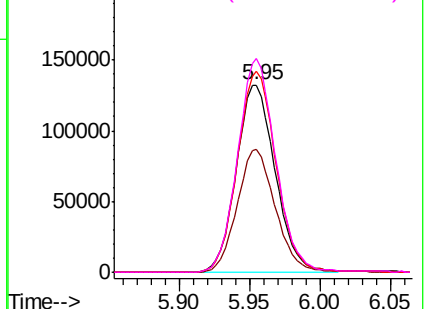
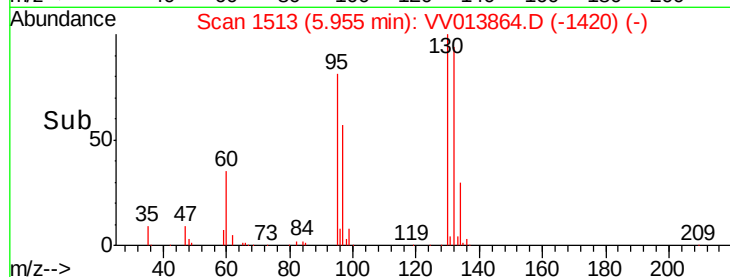


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 50.238 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

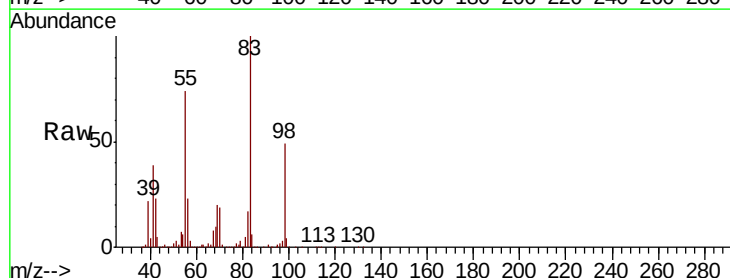
Tgt Ion: 83 Resp: 404829

Ion Ratio Lower Upper

83 100

55 75.6 61.0 91.4

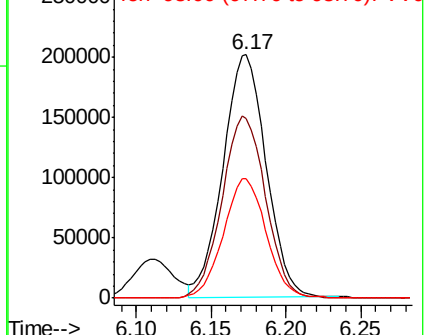
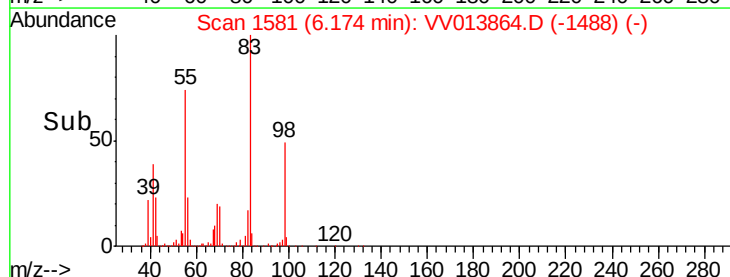
98 48.9 39.6 59.4

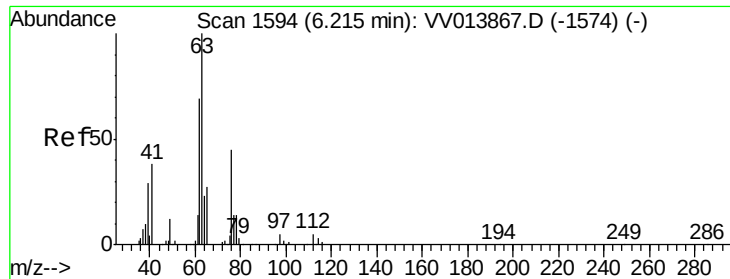


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0

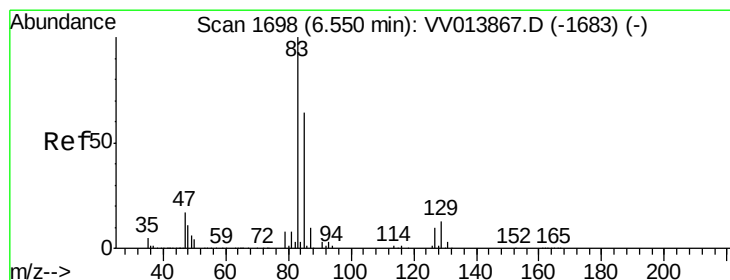
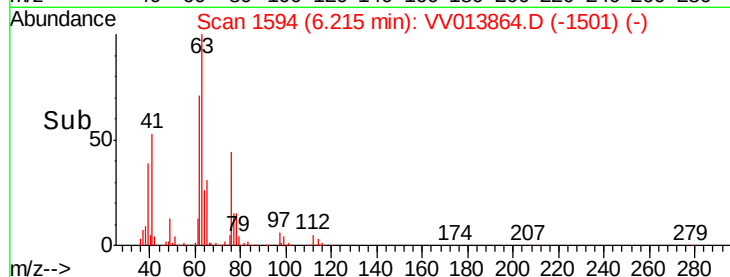
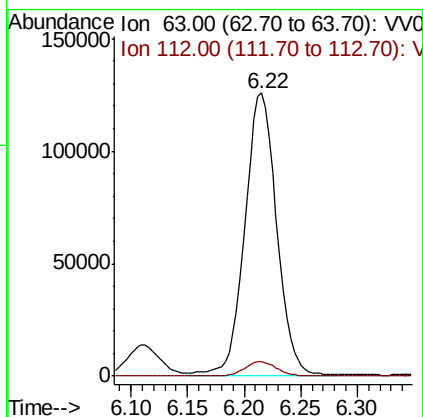
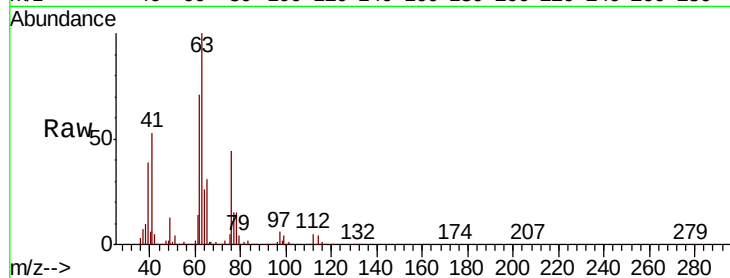




#37
 1,2-Dichloropropane
 Concen: 50.670 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV013864.D
 Acq: 02 Dec 2019 11:15

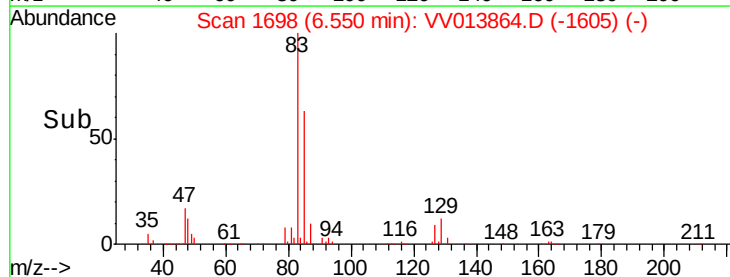
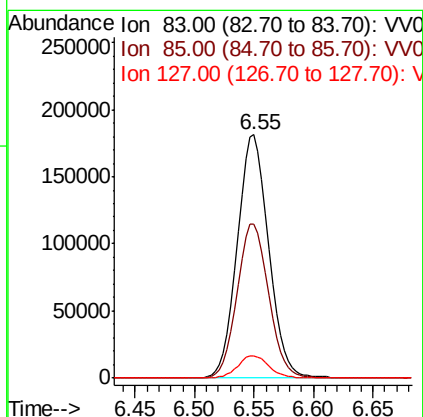
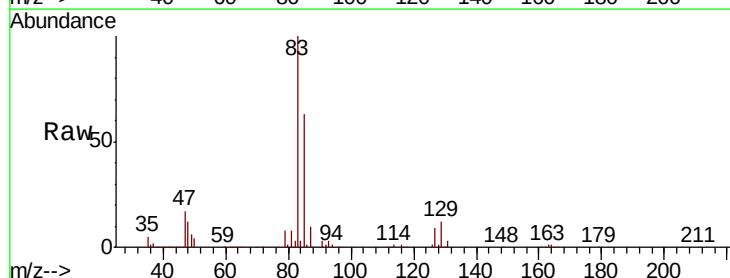
Instrument :
 MSVOA_V
 ClientSampled :

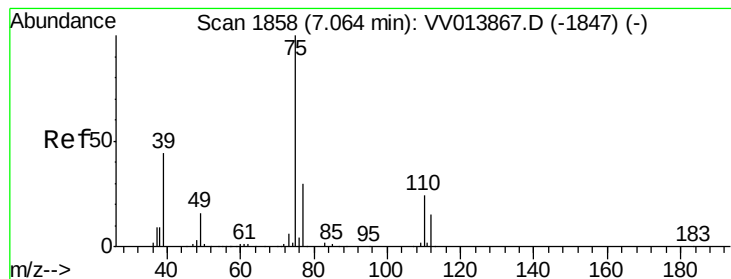
Tot Ion: 63 Resp: 245569
 Ion Ratio Lower Upper
 63 100
 112 5.3 4.2 6.2



#38
 Bromodichloromethane
 Concen: 48.341 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VV013864.D
 Acq: 02 Dec 2019 11:15

Tgt Ion: 83 Resp: 332250
 Ion Ratio Lower Upper
 83 100
 85 63.2 44.8 83.2
 127 9.3 7.7 11.5



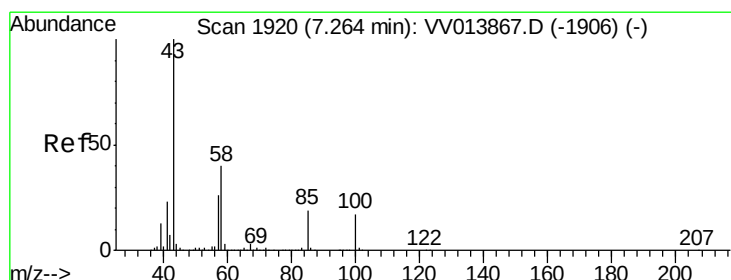
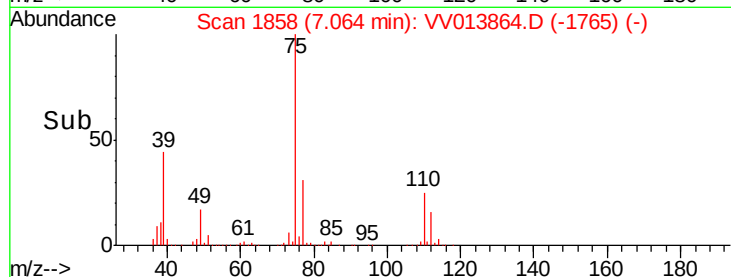
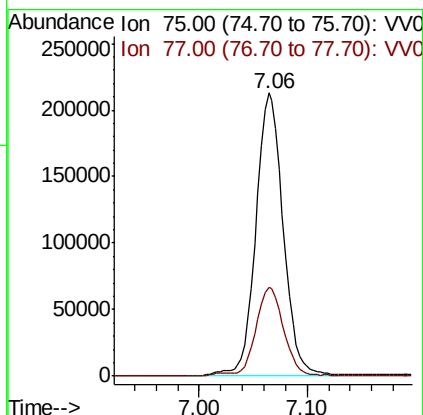
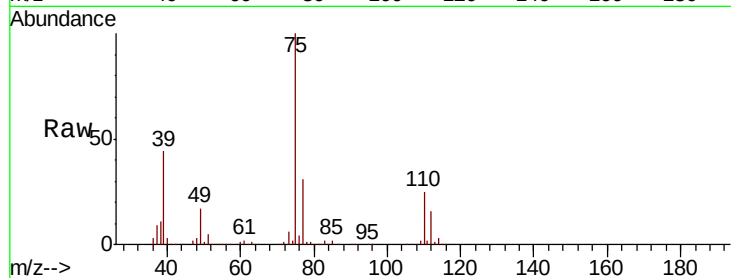


#39

cis-1,3-Dichloropropene
Concen: 49.070 ug/L
RT: 7.06 min Scan# 1858
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

Instrument :
MSVOA_V
ClientSampleId :

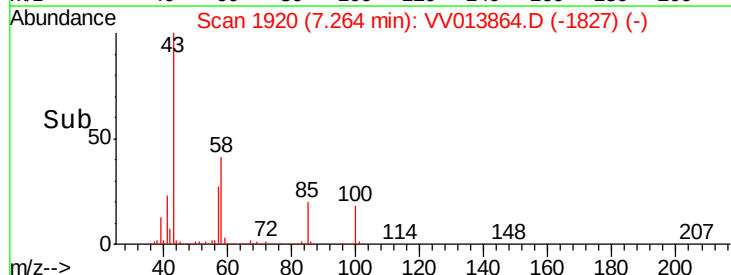
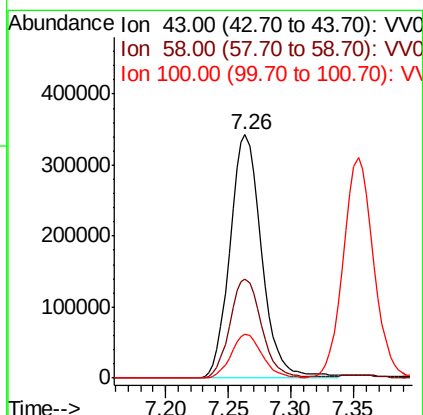
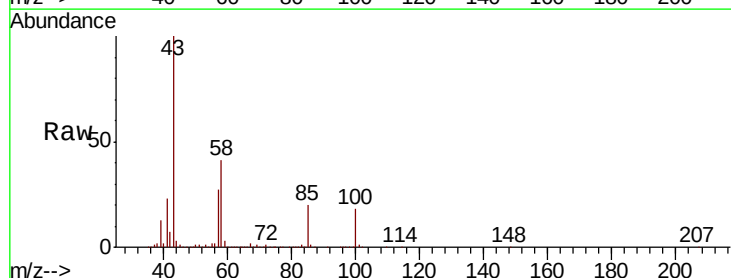
Tot Ion: 75 Resp: 374386
Ion Ratio Lower Upper
75 100
77 31.4 21.6 40.2

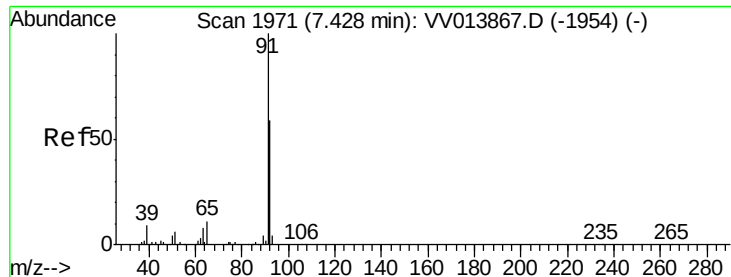


#40

4-Methyl-2-pentanone
Concen: 95.823 ug/L
RT: 7.26 min Scan# 1920
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

Tgt Ion: 43 Resp: 603887
Ion Ratio Lower Upper
43 100
58 40.9 31.9 47.9
100 17.6 13.7 20.5





#42

Toluene

Concen: 49.285 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

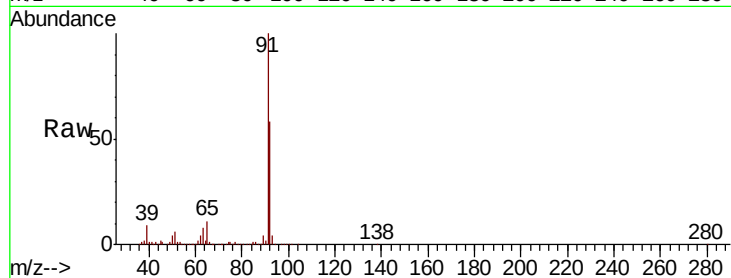
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 1018258

Ion Ratio Lower Upper

91 100

92 58.2 41.4 77.0



Abundance Ion 91.00 (90.70 to 91.70): VV013867.D (-1954) (-)

Ion 92.00 (91.70 to 92.70): VV013867.D (-1954) (-)

7.42

600000

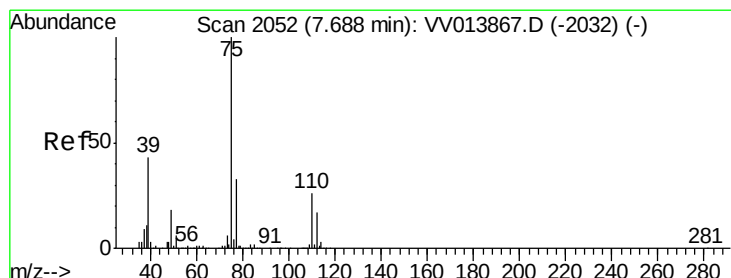
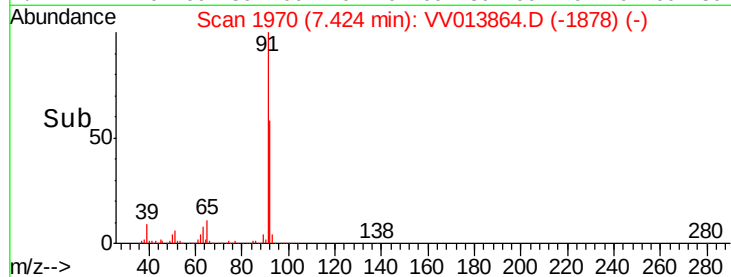
400000

200000

0

Time-->

7.35 7.40 7.45 7.50



#44

trans-1,3-Dichloropropene

Concen: 48.561 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. -0.00 min

Lab File: VV013864.D

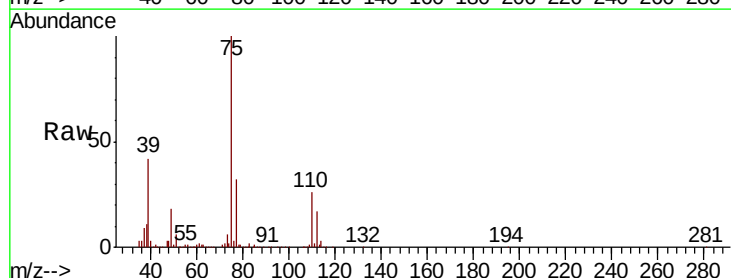
Acq: 02 Dec 2019 11:15

Tgt Ion: 75 Resp: 335504

Ion Ratio Lower Upper

75 100

77 32.0 22.9 42.5



Abundance Ion 75.00 (74.70 to 75.70): VV013867.D (-2032) (-)

Ion 77.00 (76.70 to 77.70): VV013867.D (-2032) (-)

7.69

200000

150000

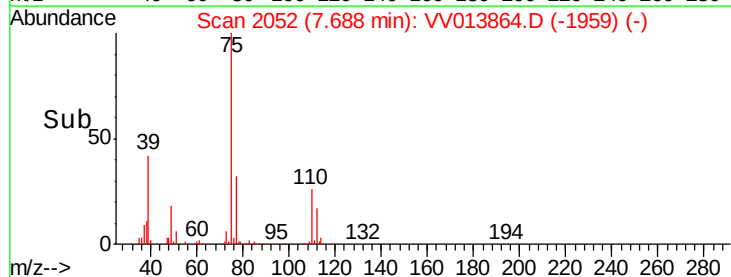
100000

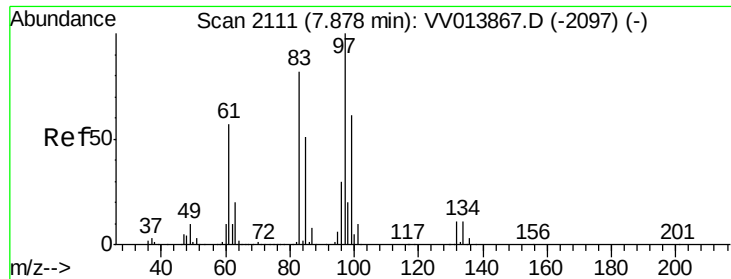
50000

0

Time-->

7.60 7.65 7.70 7.75

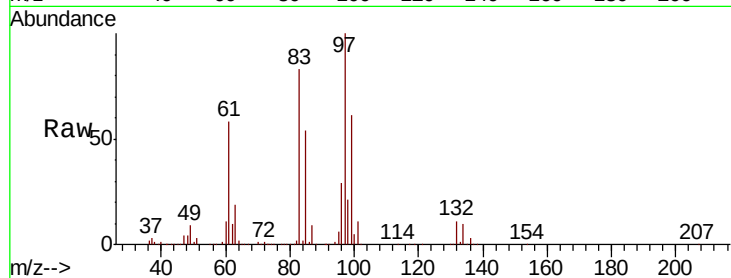




#45
1,1,2-Trichloroethane
Concen: 48.345 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	97	Resp:	232570
Ion	Ratio	Lower	Upper
97	100		
99	61.5	43.0	80.0
83	83.2	57.5	106.9
85	53.7	35.6	66.2



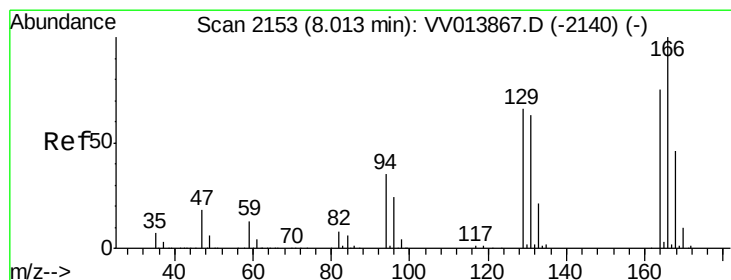
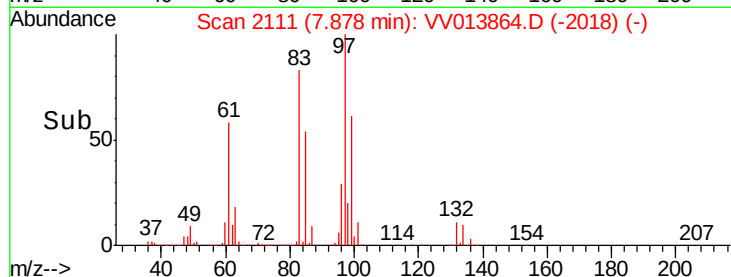
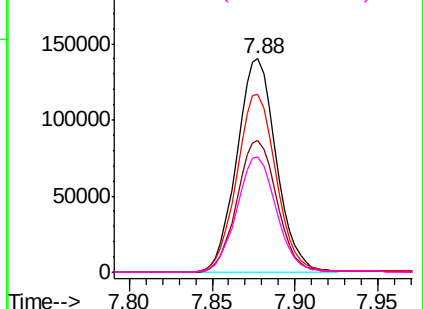
Abundance

Ion 97.00 (96.70 to 97.70): VV013867.D (-2097) (-)

Ion 99.00 (98.70 to 99.70): VV013867.D (-2097) (-)

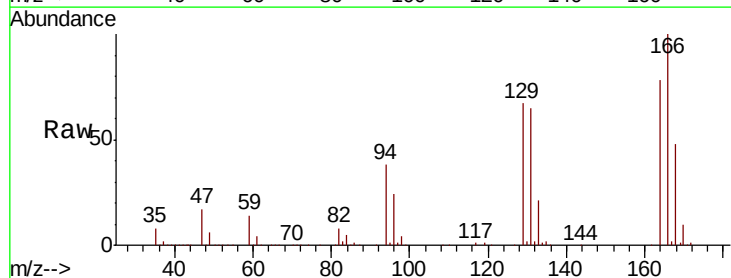
Ion 83.00 (82.70 to 83.70): VV013867.D (-2097) (-)

Ion 85.00 (84.70 to 85.70): VV013867.D (-2097) (-)



#46
Tetrachloroethene
Concen: 48.090 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

Tgt Ion:	164	Resp:	233063
Ion	Ratio	Lower	Upper
164	100		
129	86.1	61.7	114.7
131	83.6	58.4	108.6
166	127.6	93.4	173.6



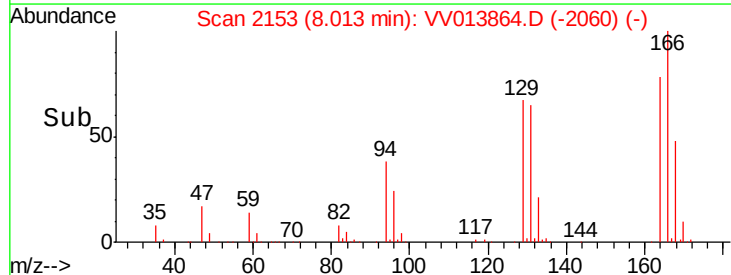
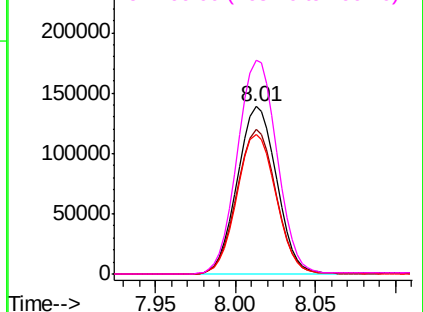
Abundance

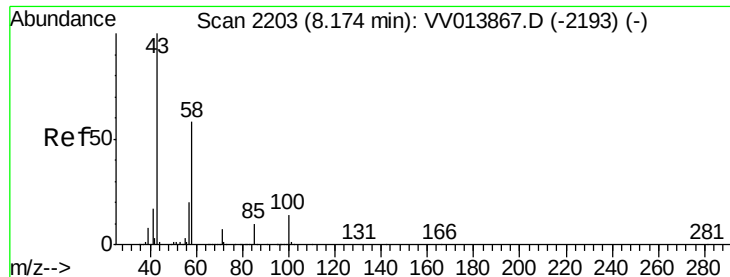
Ion 164.00 (163.70 to 164.70): VV013867.D (-2140) (-)

Ion 129.00 (128.70 to 129.70): VV013867.D (-2140) (-)

Ion 131.00 (130.70 to 131.70): VV013867.D (-2140) (-)

Ion 166.00 (165.70 to 166.70): VV013867.D (-2140) (-)

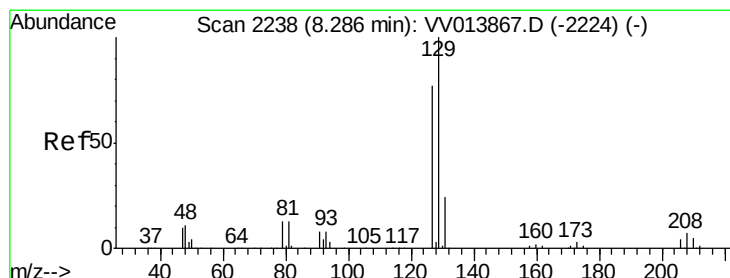
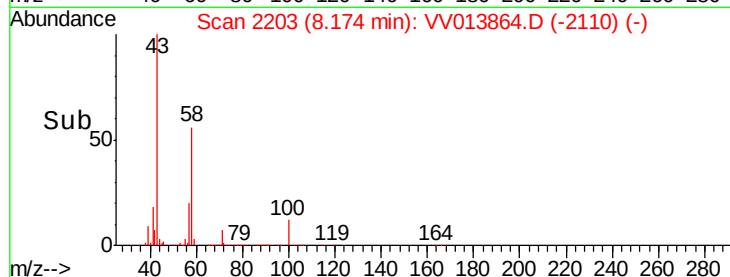
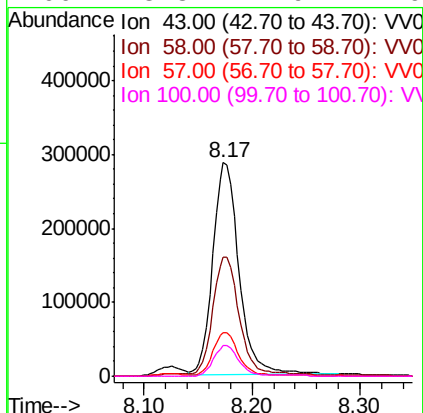
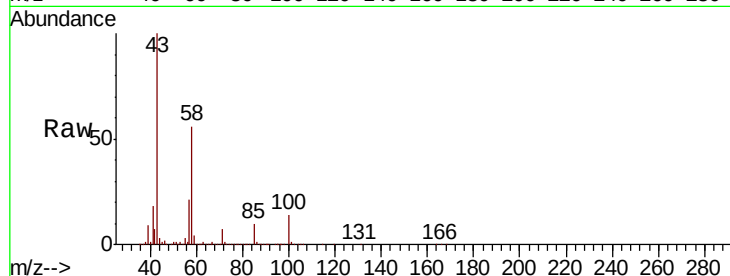




#48
2-Hexanone
Concen: 95.804 ug/L
RT: 8.17 min Scan# 2203
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

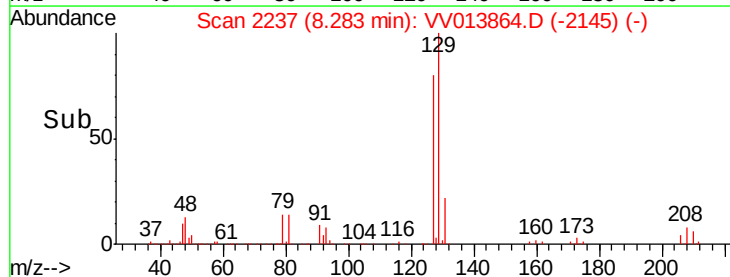
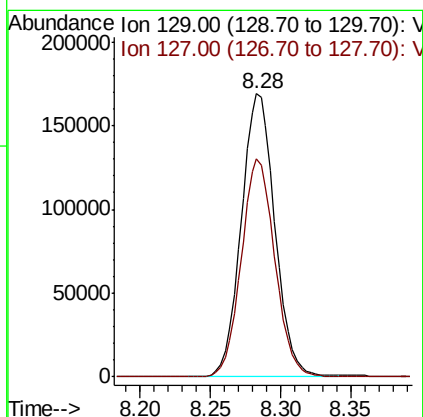
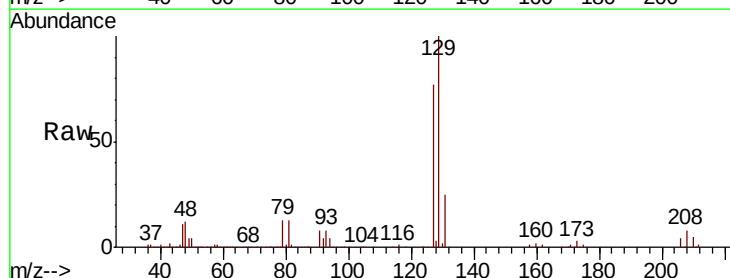
Instrument :
MSVOA_V
ClientSampleId :

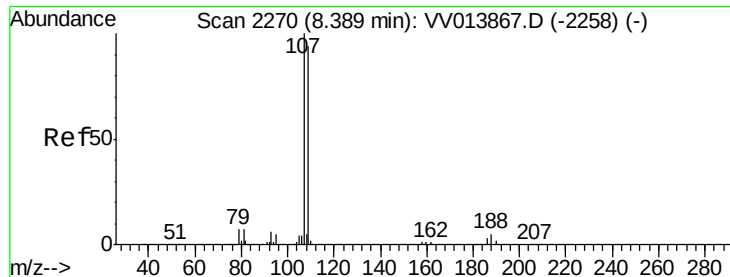
Tot Ion:	43	Resp:	482979
Ion	Ratio	Lower	Upper
43	100		
58	55.6	48.4	72.6
57	20.0	16.6	24.8
100	13.8	11.9	17.9



#49
Dibromochloromethane
Concen: 48.024 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

Tgt Ion:	129	Resp:	282402
Ion	Ratio	Lower	Upper
129	100		
127	77.1	53.7	99.7

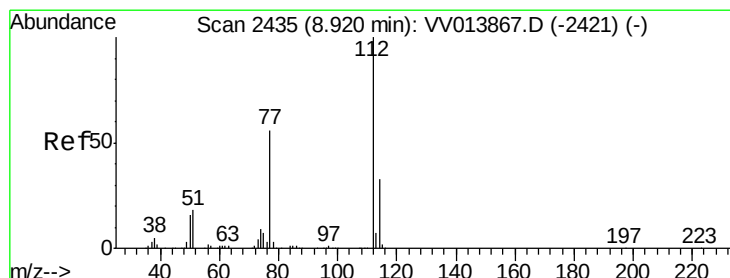
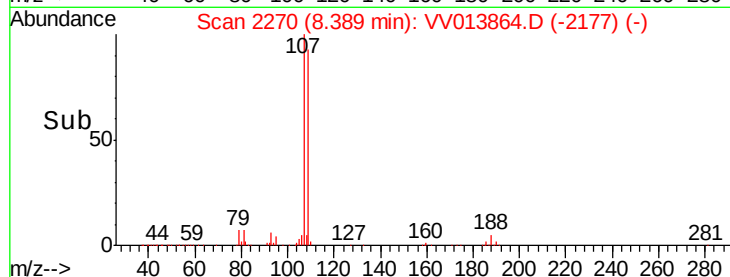
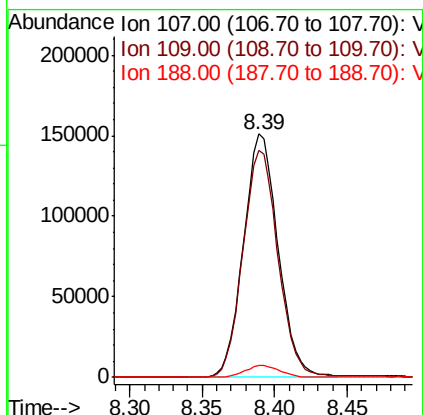
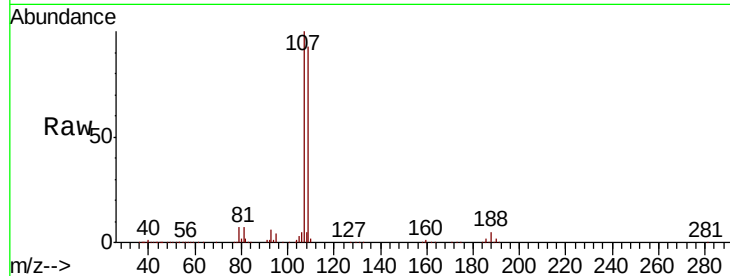




#50
1,2-Dibromoethane
Concen: 47.506 ug/L
RT: 8.39 min Scan# 2270
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

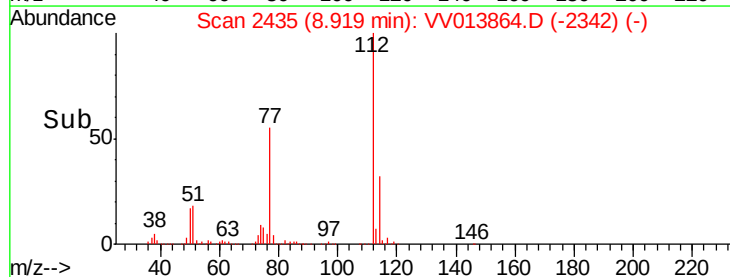
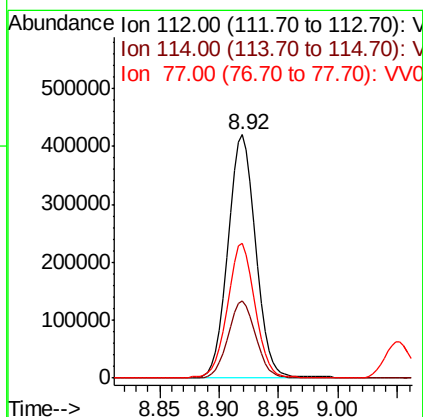
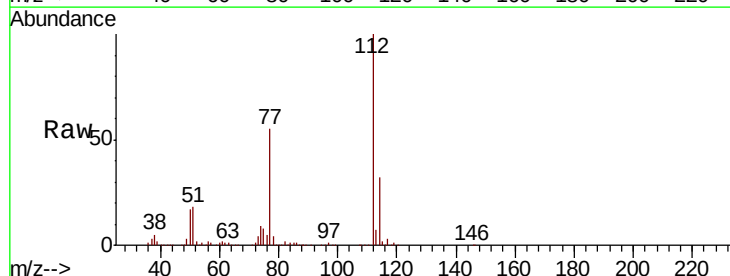
Instrument :
MSVOA_V
ClientSampleId :

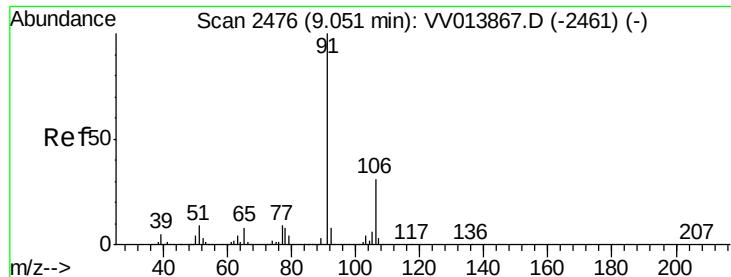
Tot Ion	Ratio	Lower	Upper
107	100		
109	93.1	65.9	122.5
188	5.1	3.6	5.4



#51
Chlorobenzene
Concen: 47.867 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. -0.00 min
Lab File: VV013864.D
Acq: 02 Dec 2019 11:15

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.7	23.2	43.2
77	55.2	45.0	67.4





#52

Ethylbenzene

Concen: 48.740 ug/L

RT: 9.05 min Scan# 2475

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

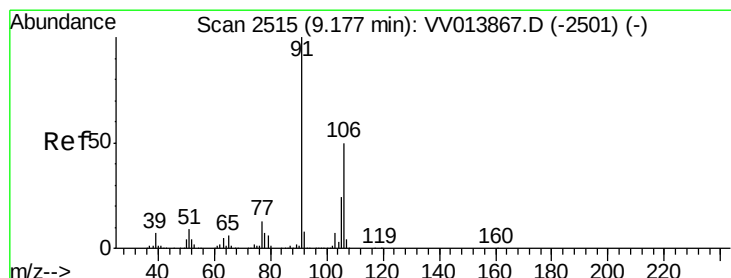
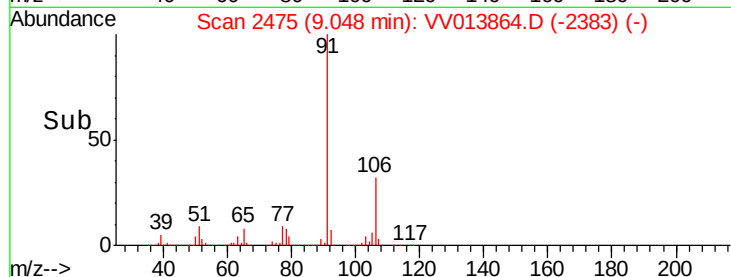
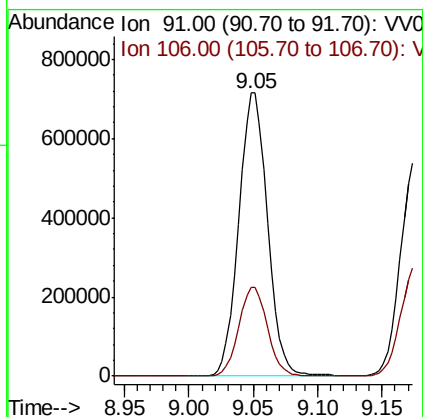
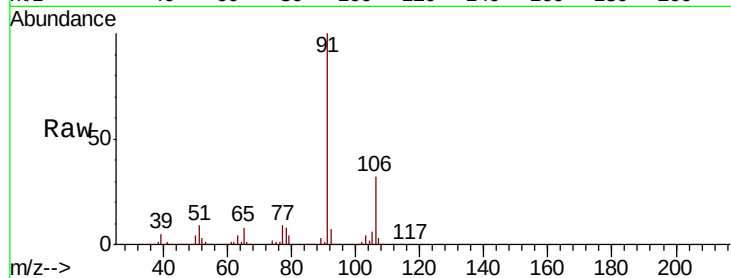
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 1110126

Ion Ratio Lower Upper

91 100

106 31.6 21.8 40.4



#53

m,p-Xylene

Concen: 49.877 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV013864.D

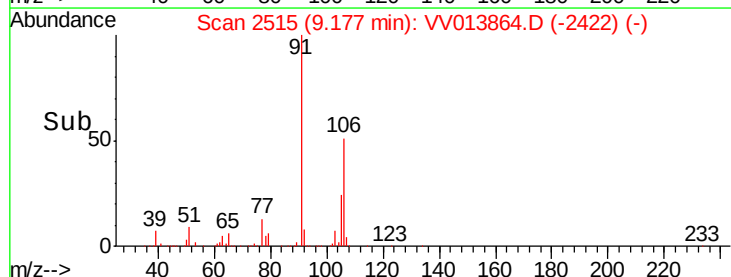
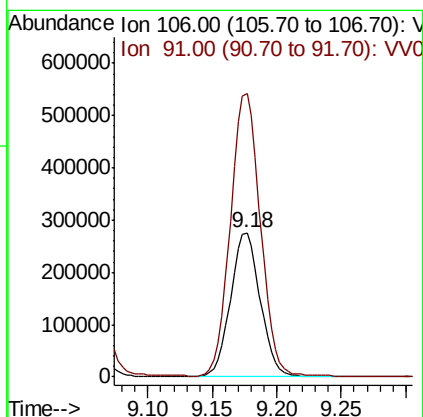
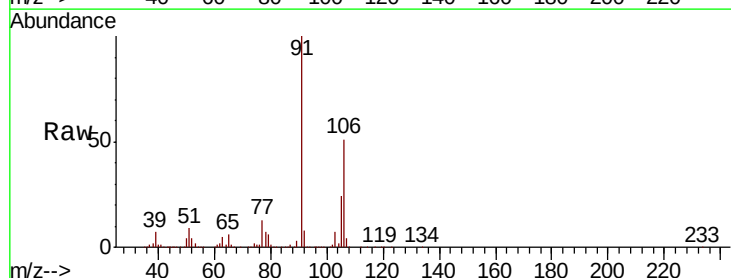
Acq: 02 Dec 2019 11:15

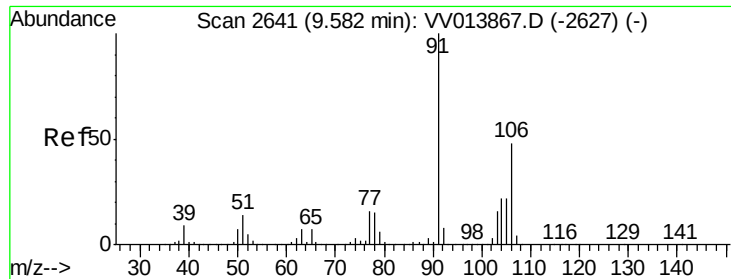
Tgt Ion: 106 Resp: 439307

Ion Ratio Lower Upper

106 100

91 196.0 139.4 259.0





#54

o-xylene

Concen: 48.854 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

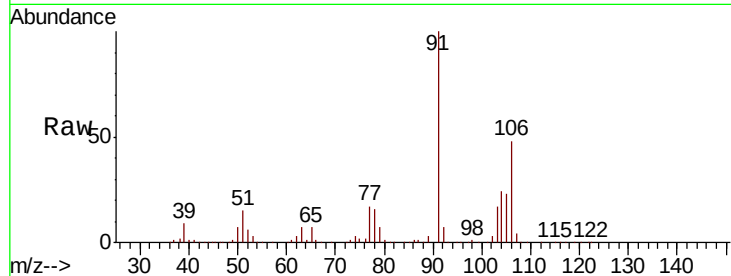
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 420716

Ion Ratio Lower Upper

106 100

91 209.3 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

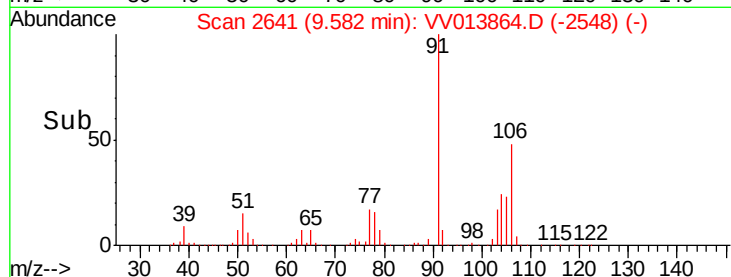
600000

400000

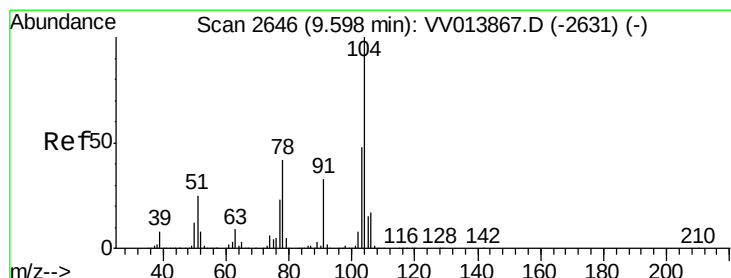
200000

0

9.50 9.60 9.70



Time-->



#55

Styrene

Concen: 50.695 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. -0.00 min

Lab File: VV013864.D

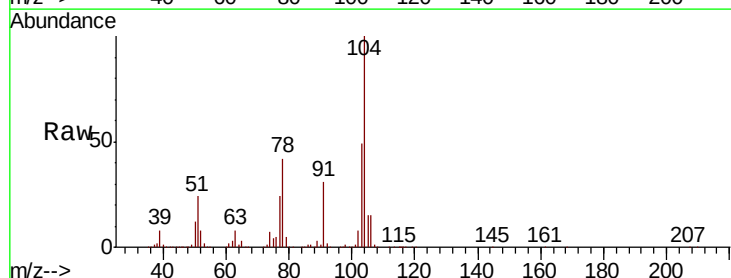
Acq: 02 Dec 2019 11:15

Tgt Ion:104 Resp: 753226

Ion Ratio Lower Upper

104 100

78 42.4 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

500000

400000

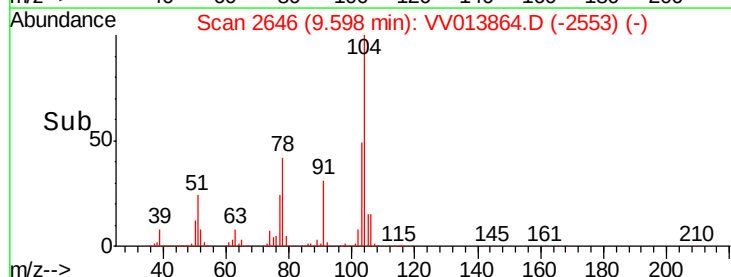
300000

200000

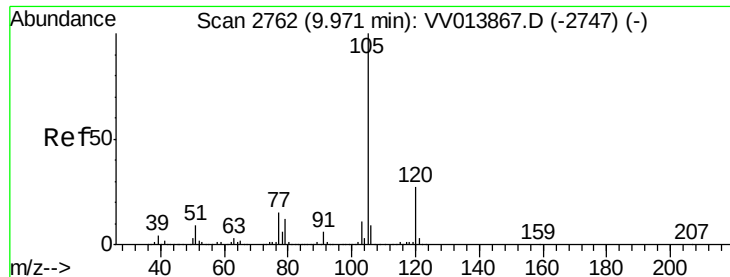
100000

0

9.50 9.60 9.70



Time-->



#56

Isopropylbenzene

Concen: 48.613 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Instrument :

MSVOA_V

ClientSampleId :

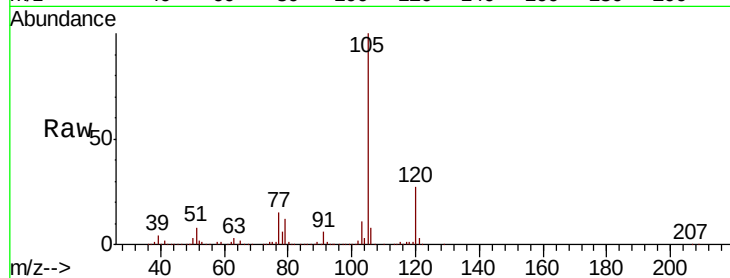
Tot Ion:105 Resp: 1125285

Ion Ratio Lower Upper

105 100

120 26.7 21.4 32.2

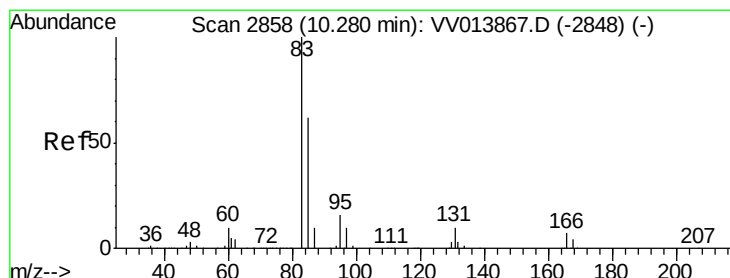
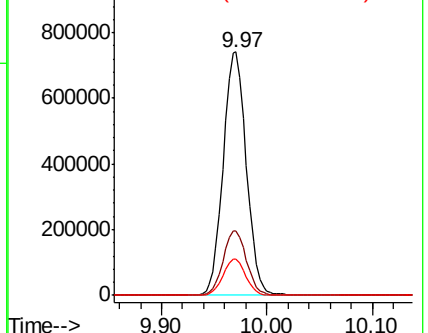
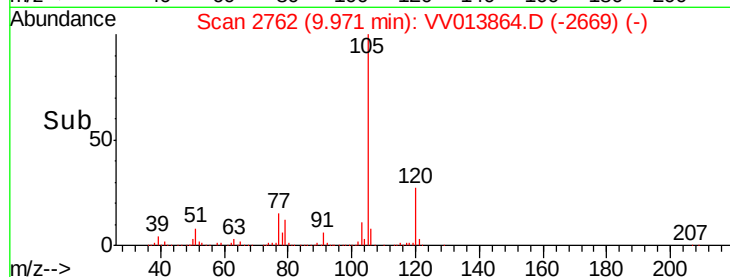
77 14.5 12.0 18.0



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: 45.410 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

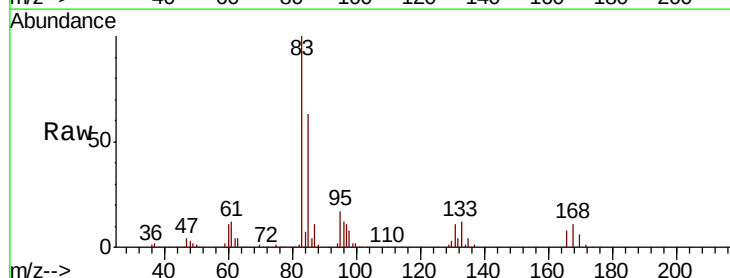
Tgt Ion: 83 Resp: 355628

Ion Ratio Lower Upper

83 100

85 63.1 44.1 81.9

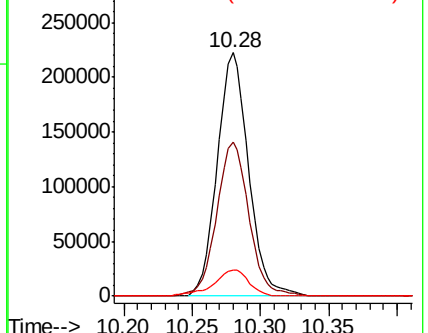
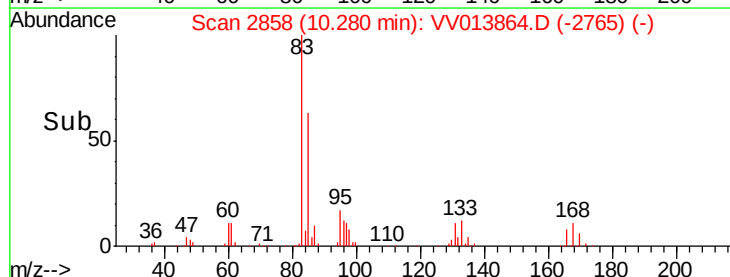
131 10.8 8.8 13.2

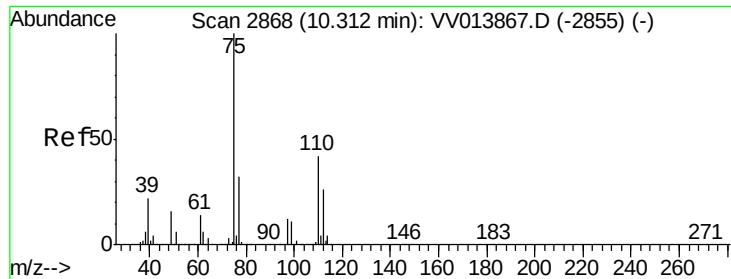


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 44.376 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Instrument :

MSVOA_V

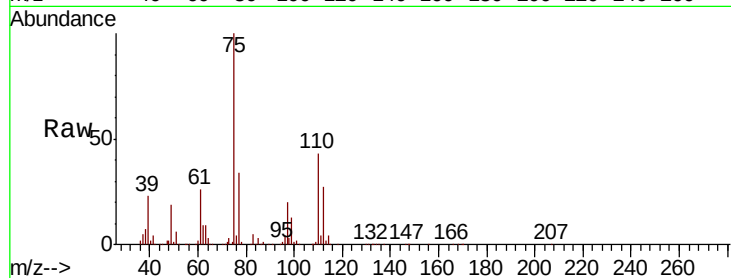
ClientSampleId :

Tot Ion: 75 Resp: 291040

Ion Ratio Lower Upper

75 100

77 32.9 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV013867.D (-2855) (-)

Ion 77.00 (76.70 to 77.70): VV013867.D (-2855) (-)

10.31

200000

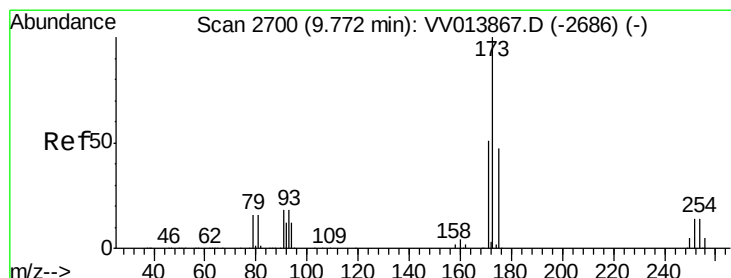
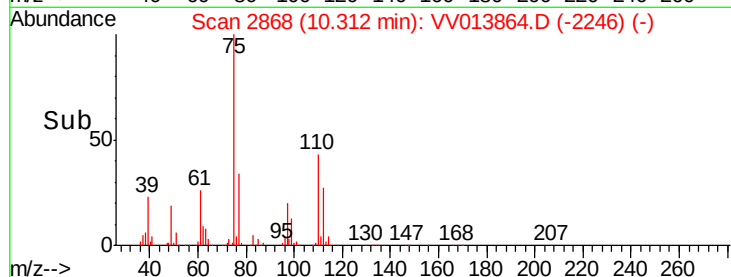
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 47.885 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

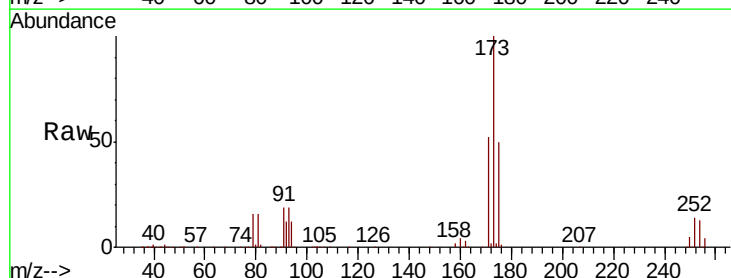
Tgt Ion: 173 Resp: 226860

Ion Ratio Lower Upper

173 100

175 49.4 38.4 57.6

254 13.3 10.5 15.7



Abundance Ion 173.00 (172.70 to 173.70): VV013867.D (-2686) (-)

Ion 175.00 (174.70 to 175.70): VV013867.D (-2686) (-)

Ion 254.00 (253.70 to 254.70): VV013867.D (-2686) (-)

9.77

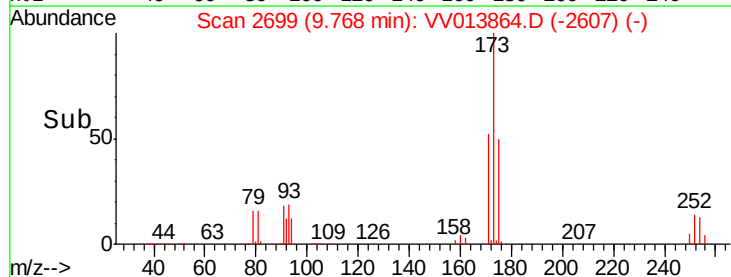
150000

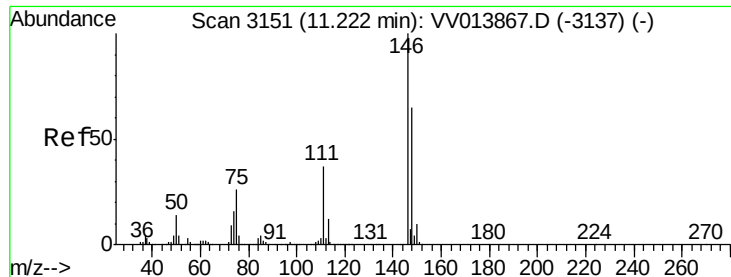
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 46.330 ug/L

RT: 11.22 min Scan# 3150

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Instrument :

MSVOA_V

ClientSampled :

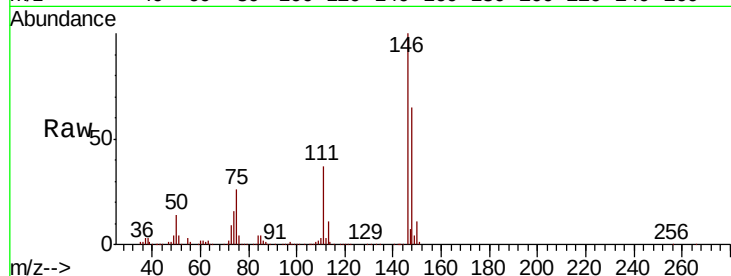
Tot Ion:146 Resp: 588754

Ion Ratio Lower Upper

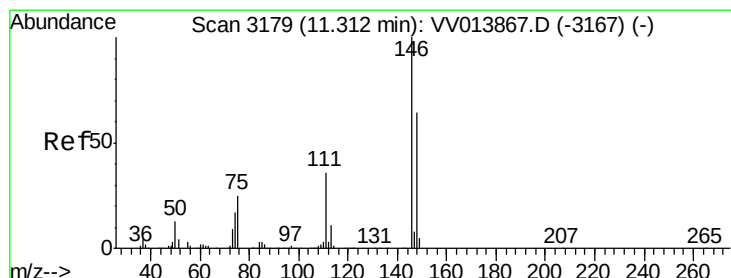
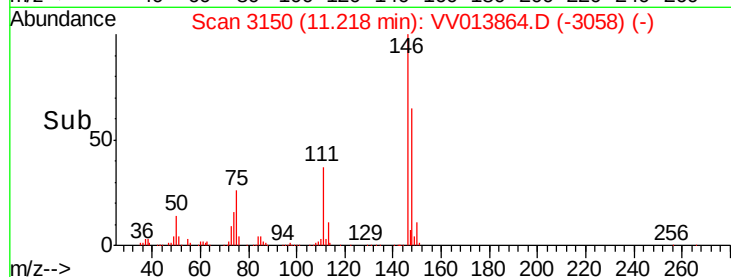
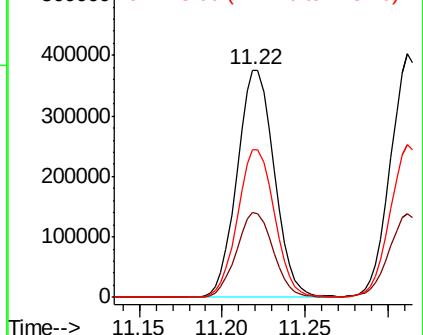
146 100

111 37.3 25.8 48.0

148 64.9 45.2 84.0



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



#63

1,4-Dichlorobenzene

Concen: 46.073 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

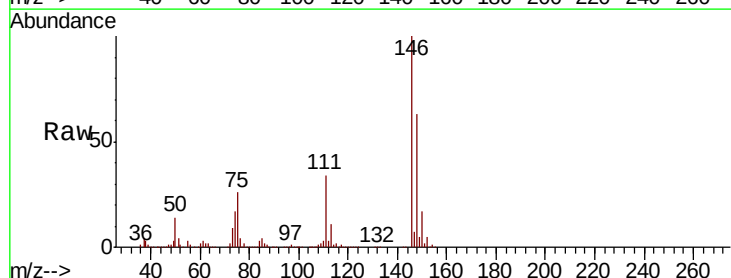
Tgt Ion:146 Resp: 605286

Ion Ratio Lower Upper

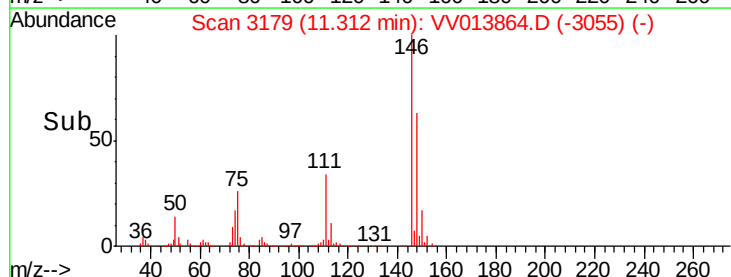
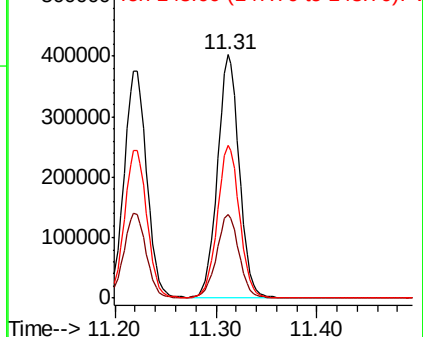
146 100

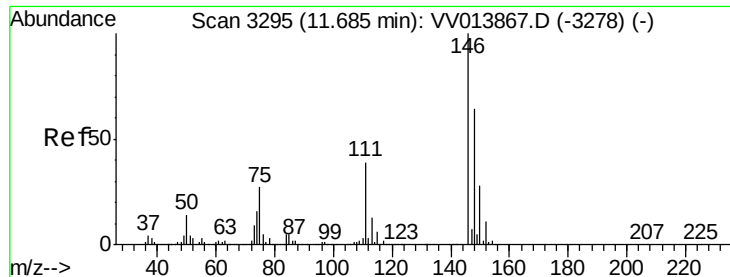
111 34.4 25.4 47.2

148 62.6 44.9 83.5



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

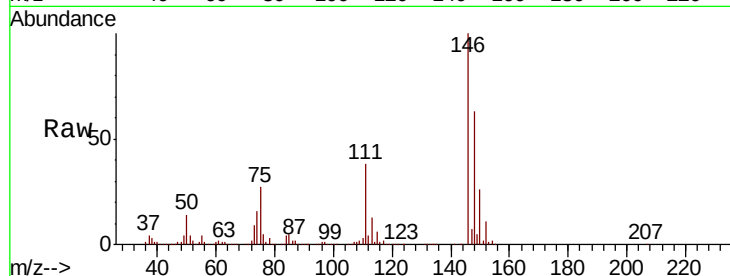




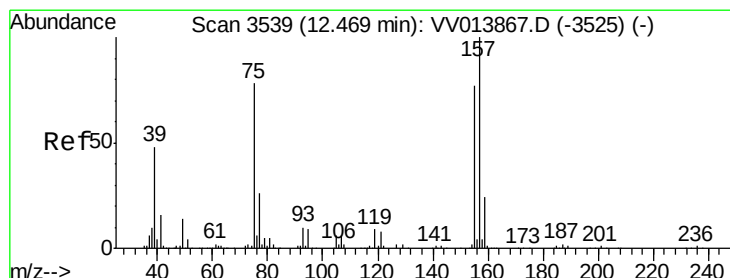
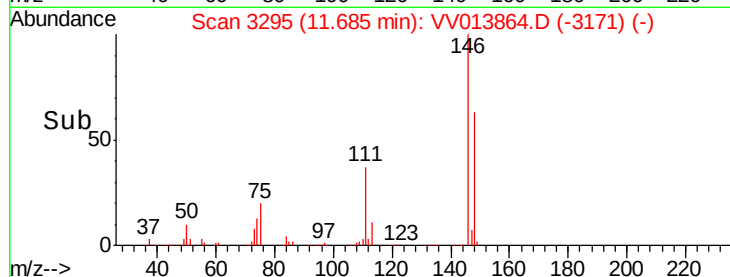
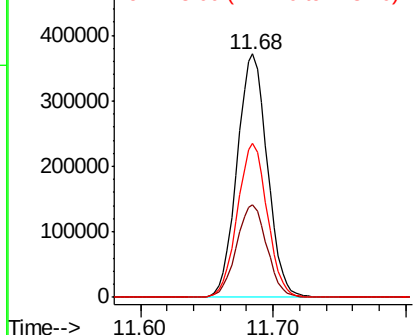
#65
 1,2-Dichlorobenzene
 Concen: 46.119 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV013864.D
 Acq: 02 Dec 2019 11:15

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	31.4	47.0
148	63.3	51.5	77.3

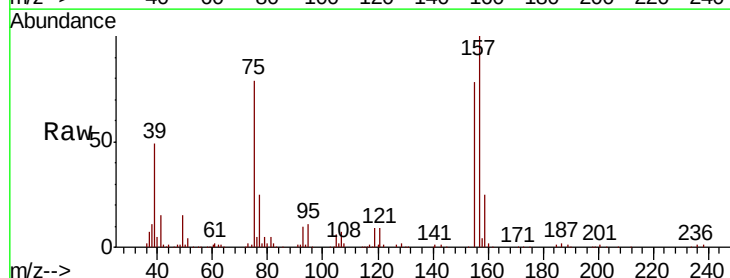


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

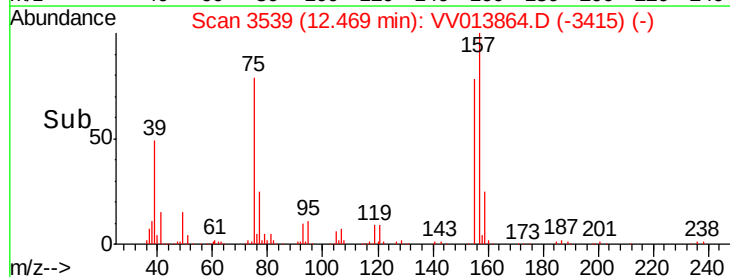
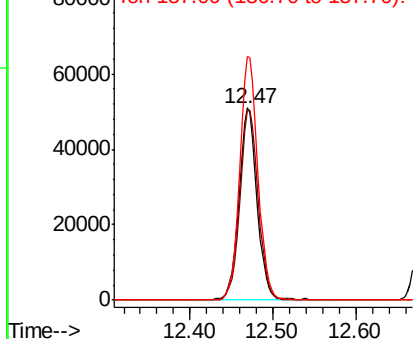


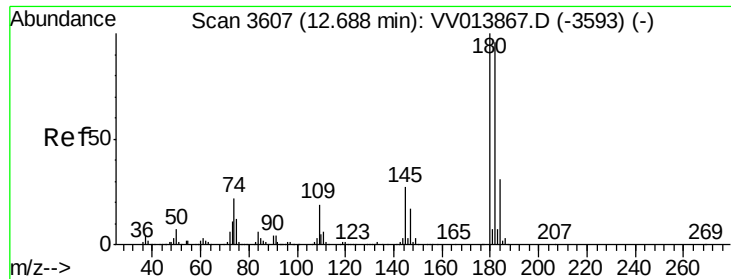
#66
 1,2-Dibromo-3-chloropropane
 Concen: 44.509 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. -0.00 min
 Lab File: VV013864.D
 Acq: 02 Dec 2019 11:15

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.7	78.6	117.8
157	126.8	102.6	153.8



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: 45.456 ug/L

RT: 12.69 min Scan# 3607

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:180 Resp: 469089

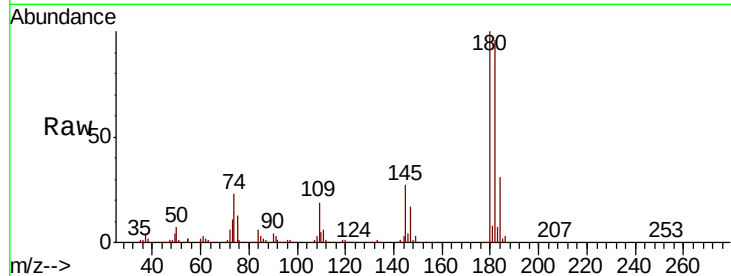
Ion Ratio Lower Upper

180 100

182 95.9 76.2 114.4

184 30.8 24.2 36.4

145 26.8 21.1 31.7

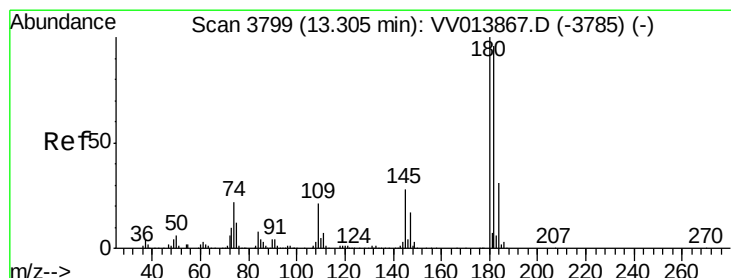
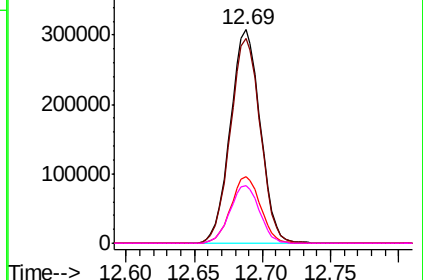
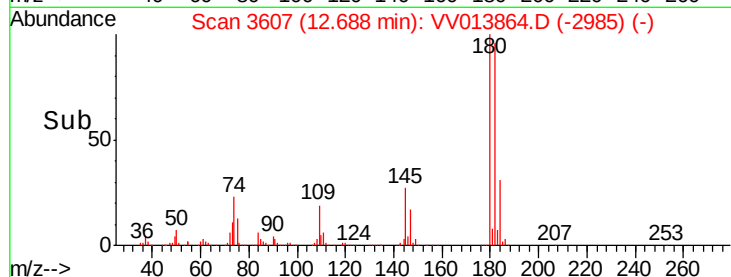


Abundance Ion 180.00 (179.70 to 180.70): V

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: 44.262 ug/L

RT: 13.31 min Scan# 3799

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

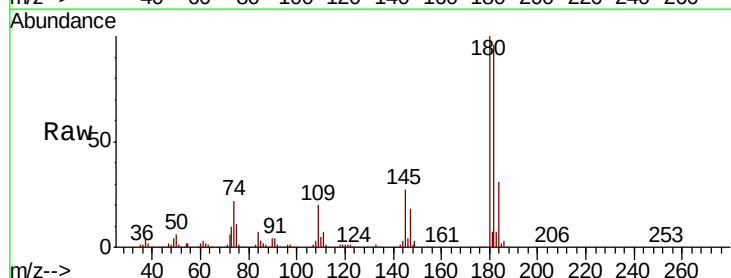
Tgt Ion:180 Resp: 412144

Ion Ratio Lower Upper

180 100

182 95.2 76.2 114.4

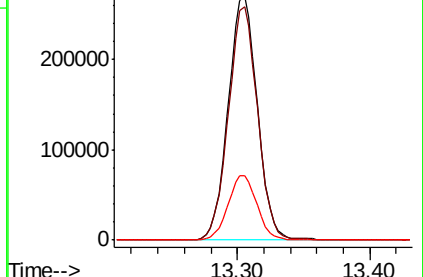
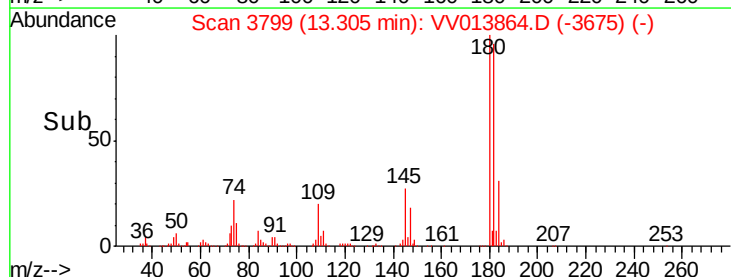
145 26.4 21.9 32.9

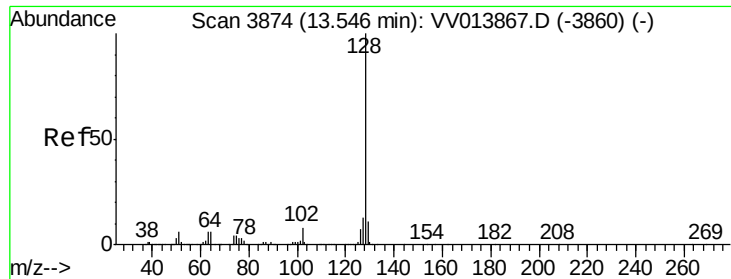


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 44.677 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

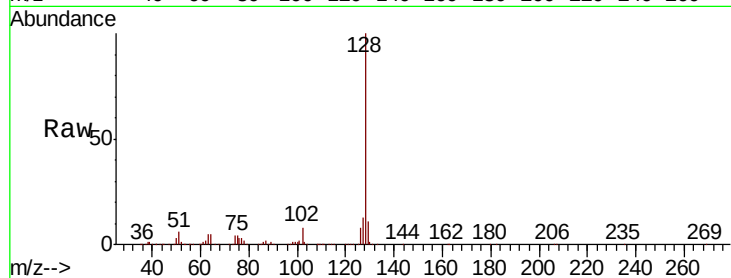
Instrument :

MSVOA_V

ClientSampled :

Tot Ion:128 Resp: 1092323

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.5	15.7
129	10.9	8.6	12.8

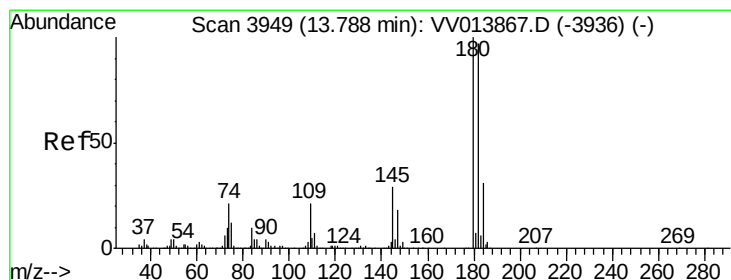
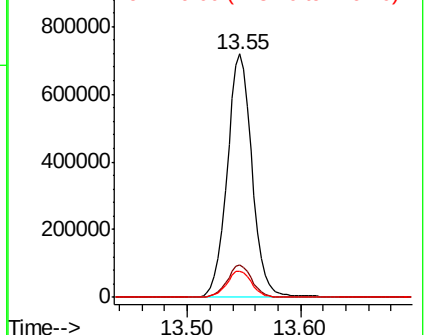
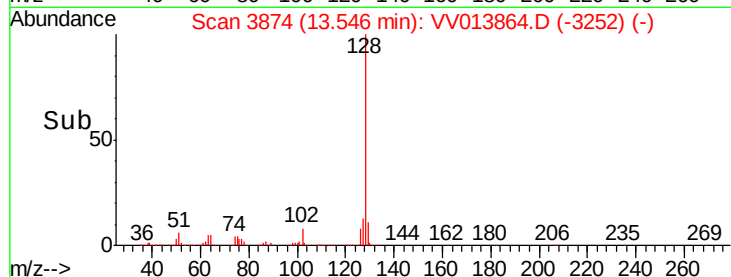


Abundance

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: 45.701 ug/L

RT: 13.79 min Scan# 3949

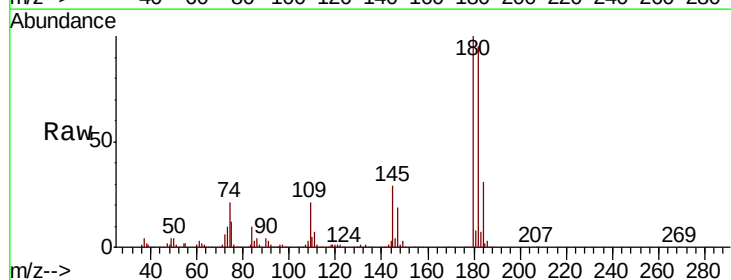
Delta R.T. -0.00 min

Lab File: VV013864.D

Acq: 02 Dec 2019 11:15

Tgt Ion:180 Resp: 445031

Ion	Ratio	Lower	Upper
180	100		
182	95.9	77.0	115.4
145	28.5	22.6	34.0



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

