

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121119\
 Data File : VV014004.D
 Acq On : 11 Dec 2019 09:59
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 12 02:59:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM120219WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 11 13:26:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	658956	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	623135	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	339521	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	173155	45.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	90.86%
7) Chloroethane-d5	1.57	69	185573	46.65	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.30%
11) 1,1-Dichloroethene-d2	2.13	63	402358	47.74	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	95.48%
21) 2-Butanone-d5	3.92	46	234444	87.40	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	87.40%
24) Chloroform-d	4.39	84	363037	45.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.72%
26) 1,2-Dichloroethane-d4	5.07	65	217393	42.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.72%
32) Benzene-d6	5.09	84	682469	42.27	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.54%
36) 1,2-Dichloropropane-d6	6.11	67	212776	43.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	87.80%
41) Toluene-d8	7.35	98	608661	41.35	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.70%
43) trans-1,3-Dichloropropene-	7.66	79	94694	40.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	80.30%
47) 2-Hexanone-d5	8.12	63	137035	75.72	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	75.72%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	298431	42.52	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.04%
64) 1,2-Dichlorobenzene-d4	11.67	152	274812	41.21	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	82.42%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	273970	46.694	ug/L 99
3) Chloromethane	1.25	50	275827	51.421	ug/L 99
5) Vinyl chloride	1.32	62	289046	51.665	ug/L 99
6) Bromomethane	1.52	94	186317	55.083	ug/L 99
8) Chloroethane	1.59	64	195000	52.384	ug/L 99
9) Trichlorofluoromethane	1.77	101	458156	52.653	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	263018	53.071	ug/L 99
12) 1,1-Dichloroethene	2.14	96	245766	51.339	ug/L 98
13) Acetone	2.18	43	433894	110.378	ug/L 97
14) Carbon disulfide	2.32	76	614918	48.709	ug/L 99
15) Methyl Acetate	2.45	43	219771	45.363	ug/L 99
16) Methylene chloride	2.53	84	236928	47.527	ug/L 99
17) trans-1,2-Dichloroethene	2.79	96	216193	46.171	ug/L 97
18) Methyl tert-butyl Ether	2.80	73	635940	46.800	ug/L 99
19) 1,1-Dichloroethane	3.22	63	399355	47.339	ug/L 99
20) cis-1,2-Dichloroethene	3.95	96	237683	46.873	ug/L 99
22) 2-Butanone	4.00	43	364551	96.618	ug/L 96

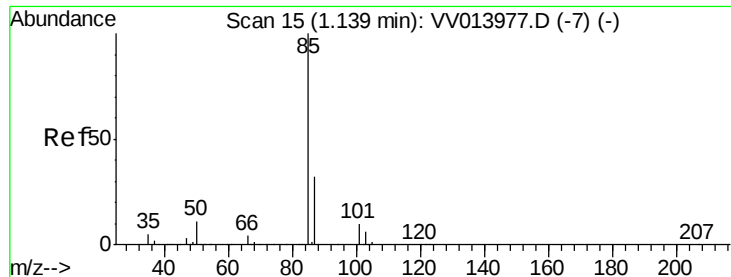
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 Quant Title : VOC Analysis
 QLast Update : Wed Dec 11 13:26:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	133220	47.552	uq/L	96
25) Chloroform	4.42	83	425108	47.136	uq/L	100
27) 1,2-Dichloroethane	5.17	62	319788	49.208	uq/L	100
29) Cyclohexane	4.72	56	331309	45.508	uq/L	98
30) 1,1,1-Trichloroethane	4.65	97	361312	48.030	uq/L	100
31) Carbon tetrachloride	4.87	117	330163	49.133	uq/L	100
33) Benzene	5.14	78	913978	49.252	uq/L	100
34) Trichloroethene	5.95	95	246569	49.540	uq/L	99
35) Methylcyclohexane	6.17	83	360888	48.326	uq/L	99
37) 1,2-Dichloropropane	6.21	63	225044	50.107	uq/L	99
38) Bromodichloromethane	6.55	83	311550	48.913	uq/L	99
39) cis-1,3-Dichloropropene	7.06	75	345095	48.808	uq/L	100
40) 4-Methyl-2-pentanone	7.26	43	528304	90.459	uq/L	98
42) Toluene	7.42	91	934468	48.806	uq/L	99
44) trans-1,3-Dichloropropene	7.69	75	298883	46.681	uq/L	97
45) 1,1,2-Trichloroethane	7.88	97	223270	50.082	uq/L	99
46) Tetrachloroethene	8.01	164	218267	48.599	uq/L	97
48) 2-Hexanone	8.17	43	440892	94.371	uq/L	97
49) Dibromochloromethane	8.28	129	271629	49.844	uq/L	99
50) 1,2-Dibromoethane	8.39	107	234682	47.787	uq/L	100
51) Chlorobenzene	8.92	112	626530	47.430	uq/L	99
52) Ethylbenzene	9.05	91	1042691	49.400	uq/L	99
53) m,p-Xylene	9.18	106	404582	49.567	uq/L	98
54) o-xylene	9.58	106	387512	48.556	uq/L	99
55) Styrene	9.60	104	669516	48.624	uq/L	100
56) Isopropylbenzene	9.97	105	1086336	50.641	uq/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	330698	45.566	uq/L	99
59) 1,2,3-Trichloropropane	10.31	75	273119	44.937	uq/L	99
61) Bromoform	9.77	173	212491	51.162	uq/L	99
62) 1,3-Dichlorobenzene	11.22	146	543189	48.758	uq/L	99
63) 1,4-Dichlorobenzene	11.31	146	543218	47.166	uq/L	98
65) 1,2-Dichlorobenzene	11.68	146	543072	48.733	uq/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	65291	42.158	uq/L	99
67) 1,3,5-Trichlorobenzene	12.69	180	415987	45.981	uq/L	99
68) 1,2,4-trichlorobenzene	13.31	180	322169	39.467	uq/L	98
69) Naphthalene	13.55	128	613951	28.644	uq/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	339678	39.790	uq/L	100

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



#2

Dichlorodifluoromethane

Concen: 46.694 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

Instrument :

MSVOA_V

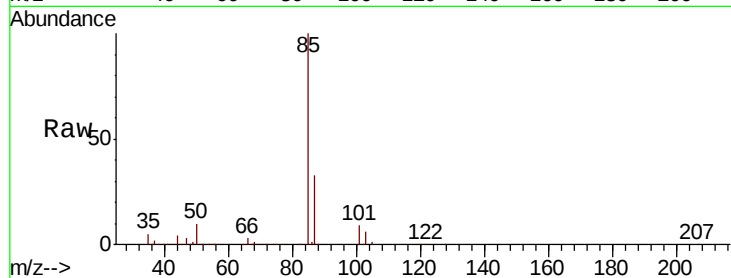
ClientSampleId :

Tot Ion: 85 Resp: 273970

Ion Ratio Lower Upper

85 100

87 32.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VV013977.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV013977.D (-7) (-)

1.14

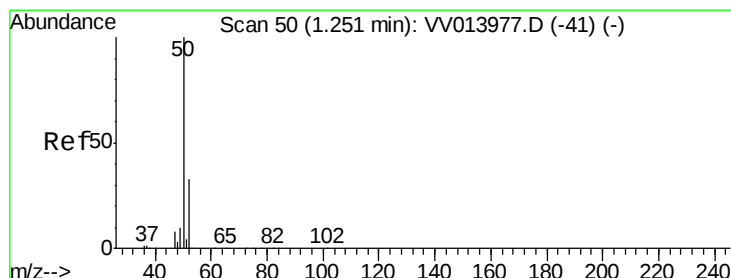
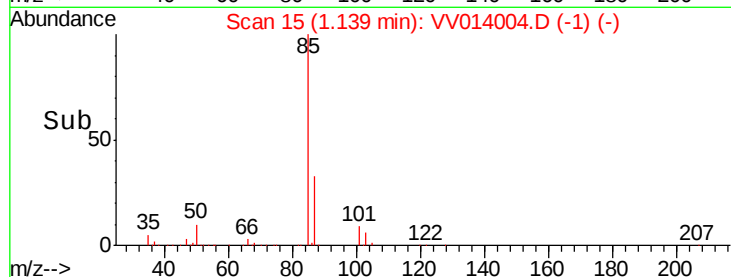
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 51.421 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV014004.D

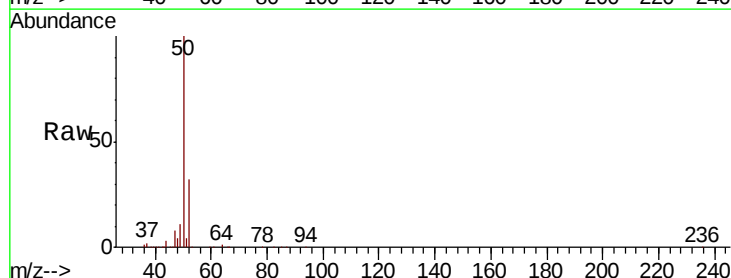
Acq: 11 Dec 2019 09:59

Tgt Ion: 50 Resp: 275827

Ion Ratio Lower Upper

50 100

52 32.3 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VV013977.D (-41) (-)

Ion 52.00 (51.70 to 52.70): VV013977.D (-41) (-)

1.25

300000

250000

200000

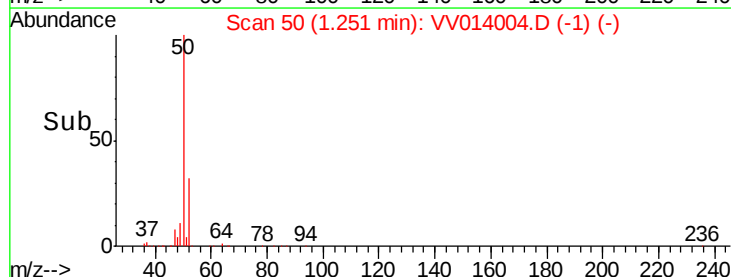
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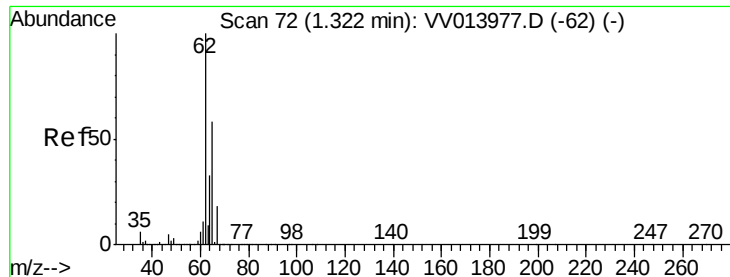
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 51.665 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

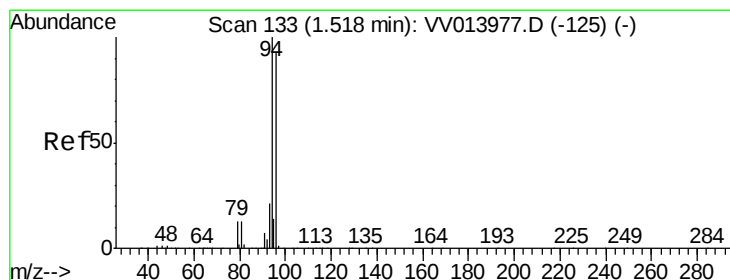
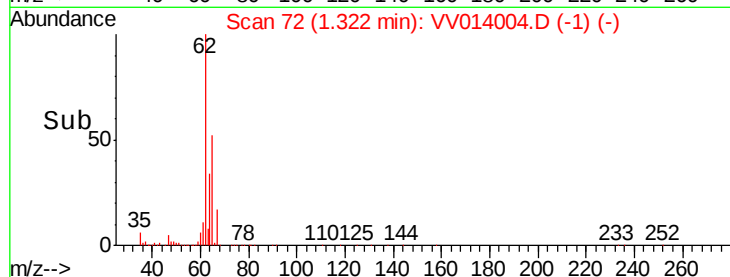
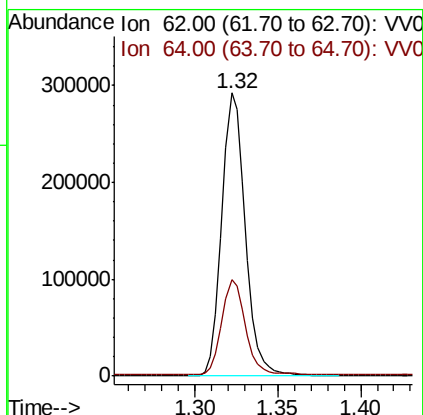
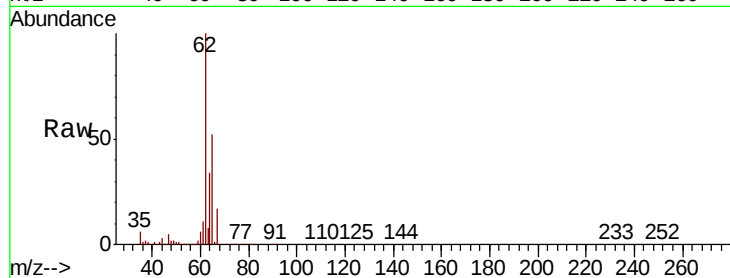
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 289046

Ion Ratio Lower Upper

62 100

64 33.9 24.1 44.8



#6

Bromomethane

Concen: 55.083 ug/L

RT: 1.52 min Scan# 133

Delta R.T. 0.00 min

Lab File: VV014004.D

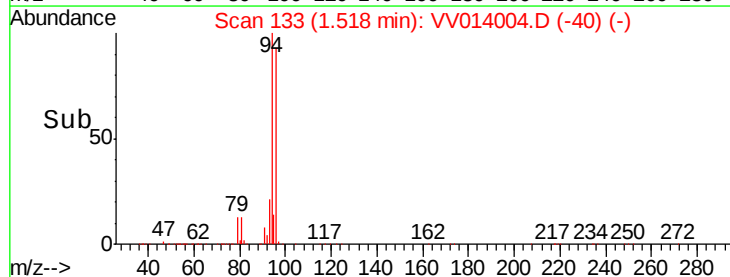
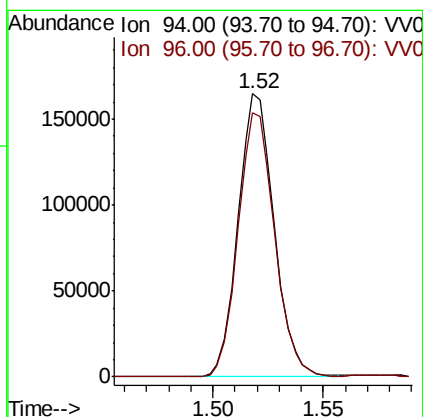
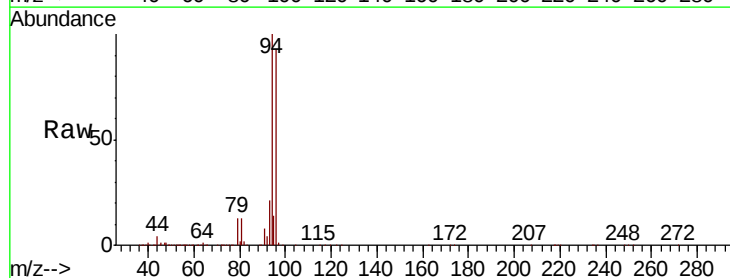
Acq: 11 Dec 2019 09:59

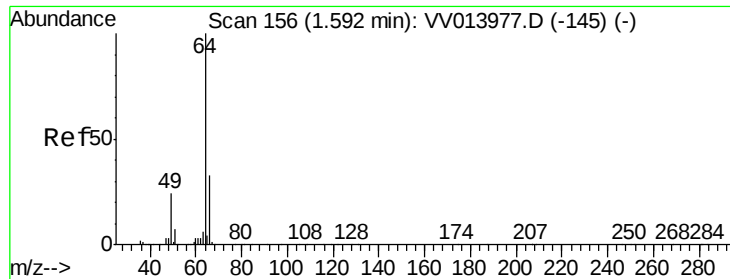
Tgt Ion: 94 Resp: 186317

Ion Ratio Lower Upper

94 100

96 93.4 66.2 123.0

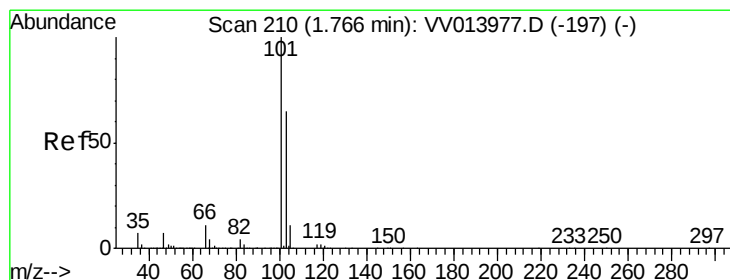
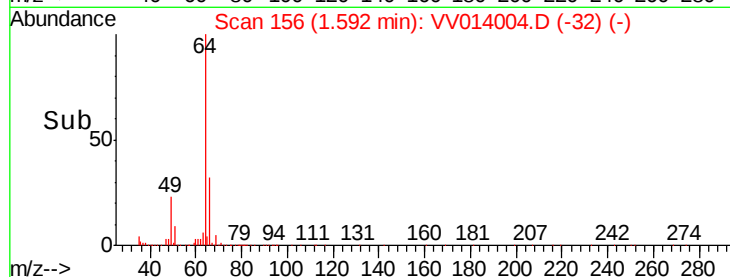
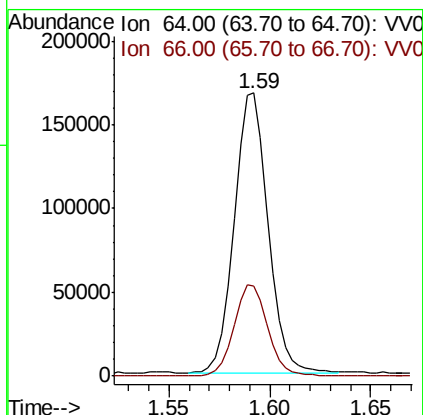
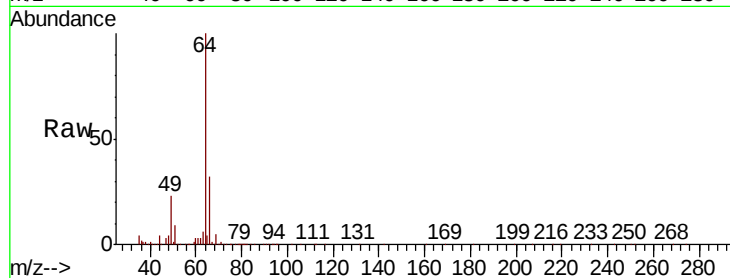




#8
Chloroethane
Concen: 52.384 ug/L
RT: 1.59 min Scan# 156
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

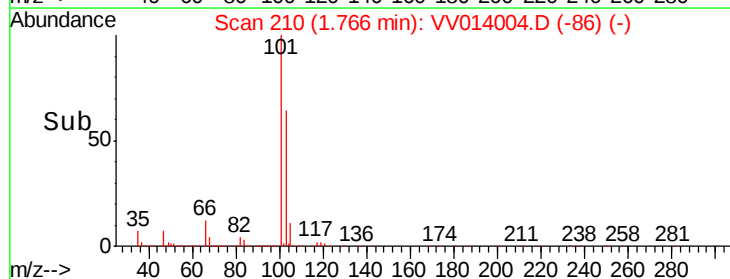
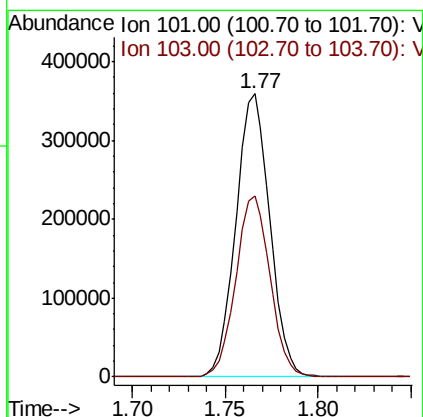
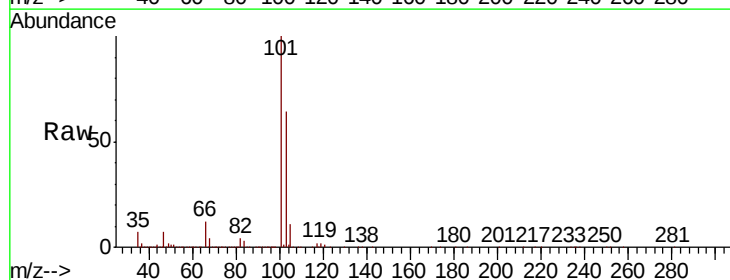
Instrument :
MSVOA_V
ClientSampleId :

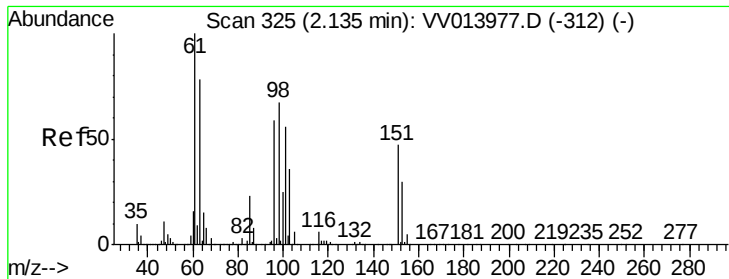
Tot Ion: 64 Resp: 195000
Ion Ratio Lower Upper
64 100
66 32.0 22.7 42.1



#9
Trichlorofluoromethane
Concen: 52.653 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

Tgt Ion:101 Resp: 458156
Ion Ratio Lower Upper
101 100
103 64.1 51.9 77.9





#10

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

Concen: 53.071 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

Instrument :

MSVOA_V

ClientSampleId :

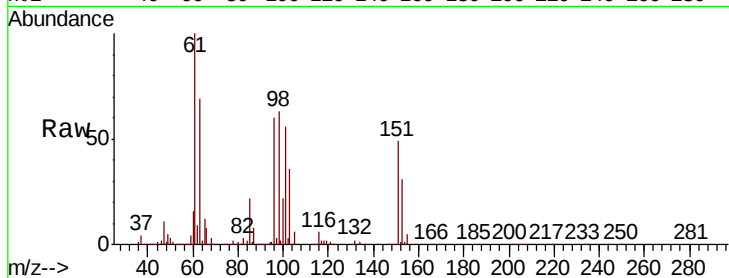
Tot Ion:101 Resp: 263018

Ion Ratio Lower Upper

101 100

85 40.3 32.5 48.7

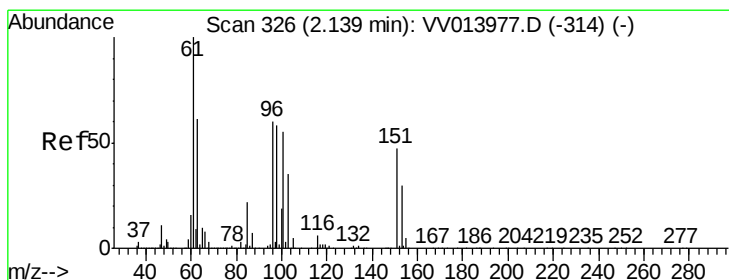
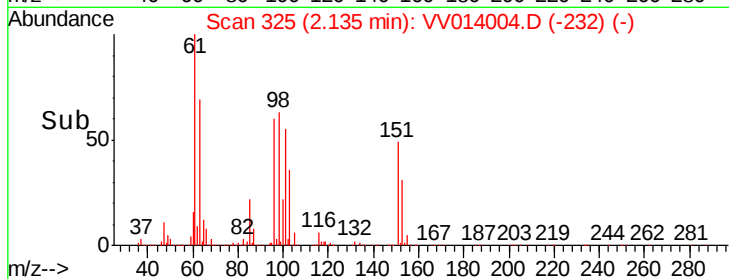
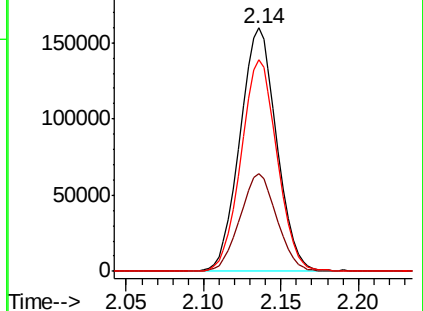
151 85.8 69.8 104.6



Abundance Ion 101.00 (100.70 to 101.70): VV013977.D (-312) (-)

Ion 85.00 (84.70 to 85.70): VV013977.D (-312) (-)

Ion 151.00 (150.70 to 151.70): VV013977.D (-312) (-)



#12

1,1-Dichloroethene

Concen: 51.339 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

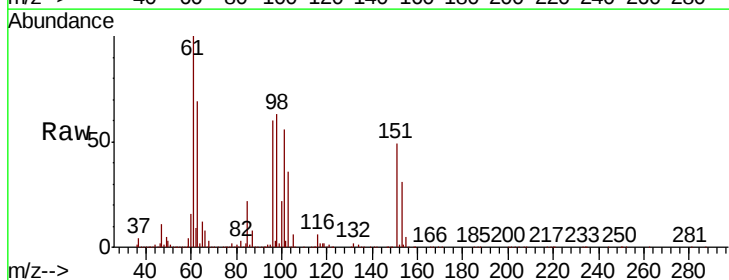
Tgt Ion: 96 Resp: 245766

Ion Ratio Lower Upper

96 100

61 166.0 114.0 211.8

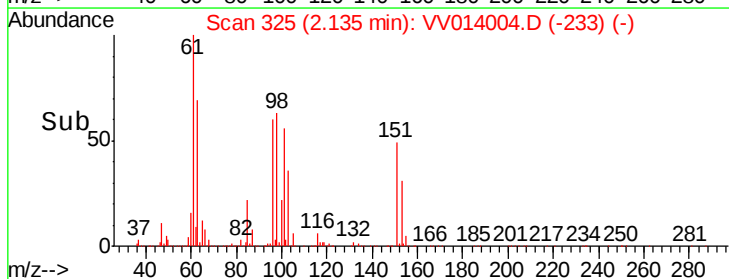
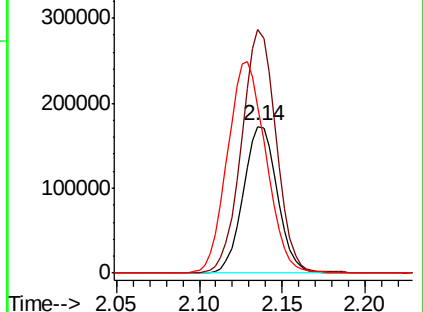
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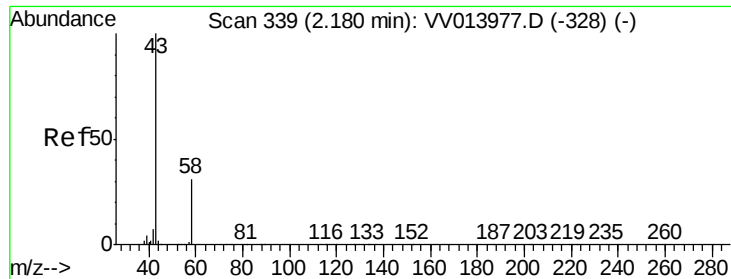


Abundance Ion 96.00 (95.70 to 96.70): VV013977.D (-314) (-)

Ion 61.00 (60.70 to 61.70): VV013977.D (-314) (-)

Ion 63.00 (62.70 to 63.70): VV013977.D (-314) (-)





#13

Acetone

Concen: 110.378 ug/L

RT: 2.18 min Scan# 340

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

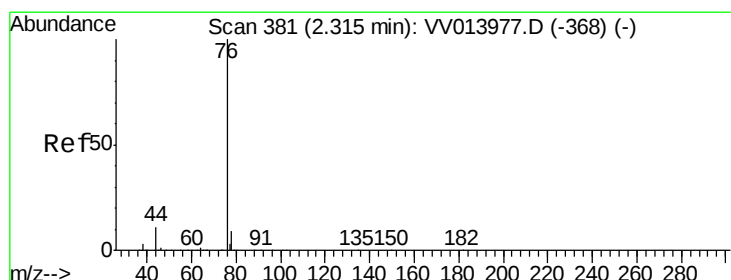
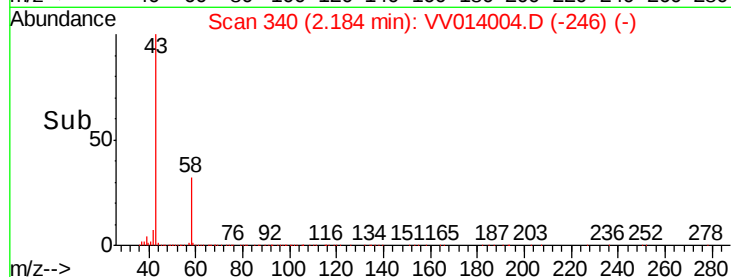
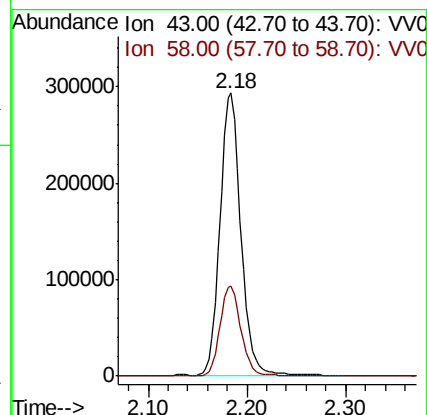
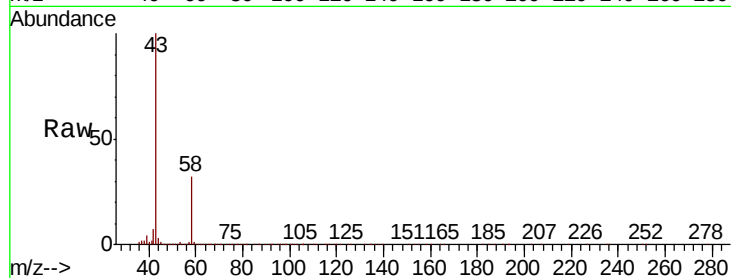
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 433894

Ion Ratio Lower Upper

43 100

58 32.2 0.0 60.8



#14

Carbon disulfide

Concen: 48.709 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV014004.D

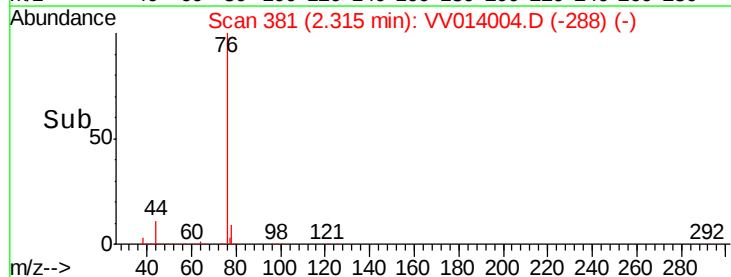
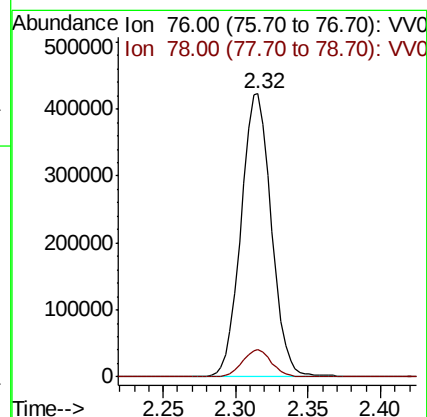
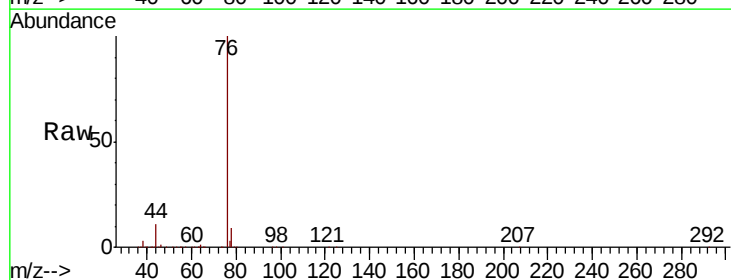
Acq: 11 Dec 2019 09:59

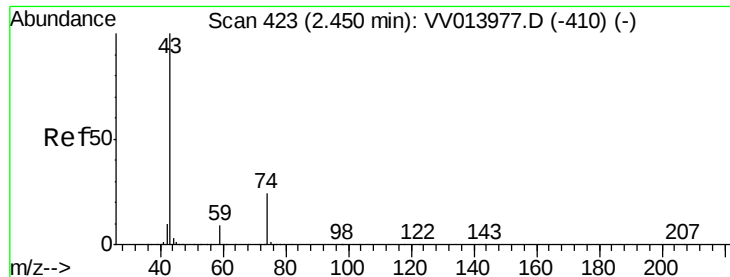
Tgt Ion: 76 Resp: 614918

Ion Ratio Lower Upper

76 100

78 9.5 7.2 10.8

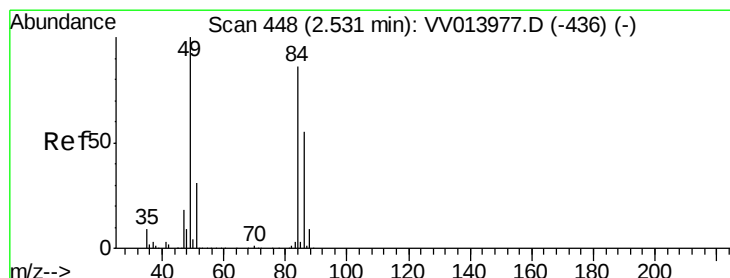
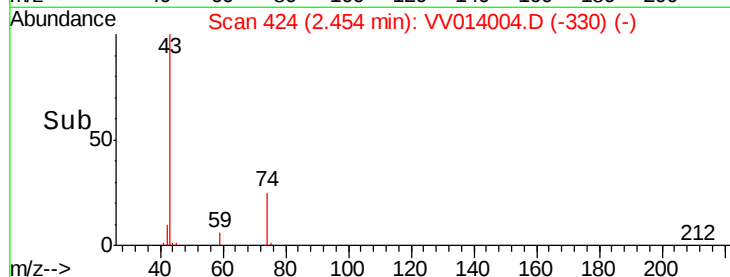
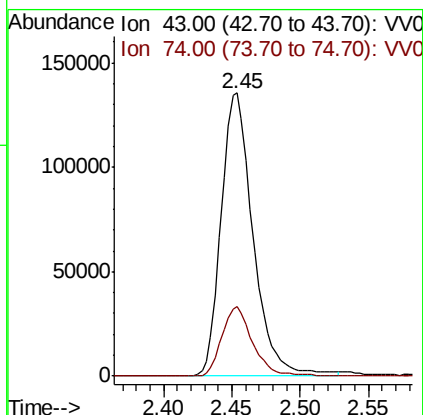
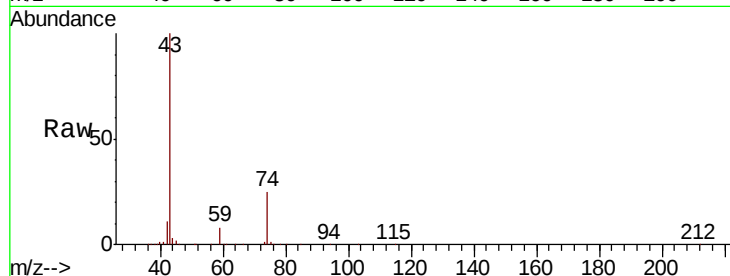




#15
Methvl Acetate
Concen: 45.363 ug/L
RT: 2.45 min Scan# 424
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

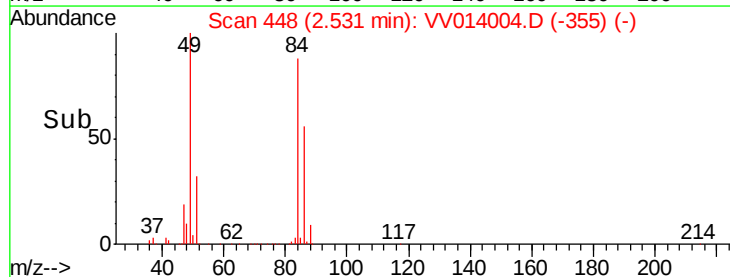
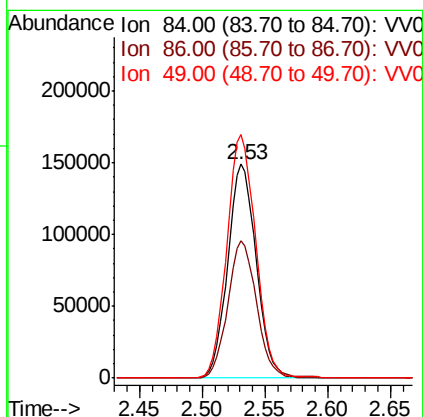
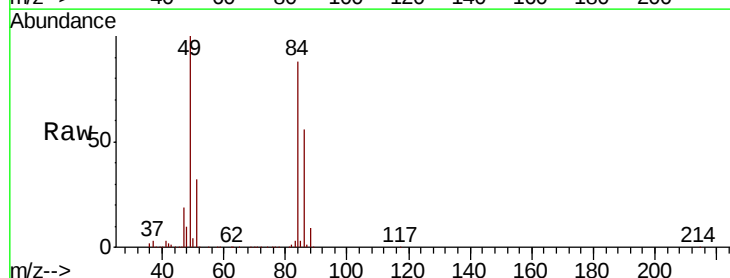
Instrument :
MSVOA_V
ClientSampled :

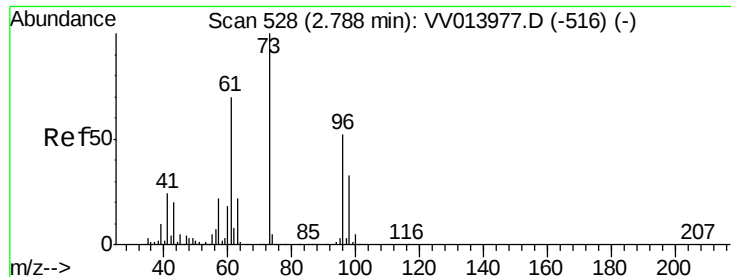
Tot Ion: 43 Resp: 219771
Ion Ratio Lower Upper
43 100
74 23.9 19.3 28.9



#16
Methylene chloride
Concen: 47.527 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

Tgt Ion: 84 Resp: 236928
Ion Ratio Lower Upper
84 100
86 63.9 43.9 81.5
49 113.8 79.7 147.9





#17

trans-1,2-Dichloroethene

Concen: 46.171 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

Instrument :
MSVOA_V
ClientSampleId :

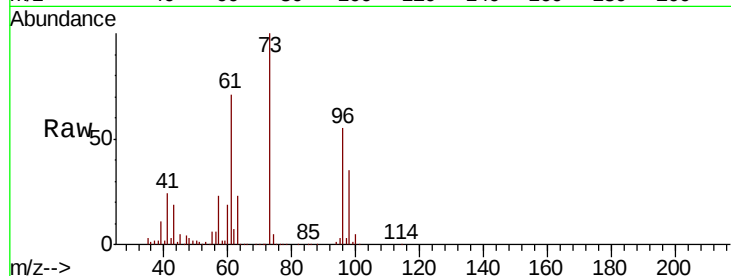
Tot Ion: 96 Resp: 216193

Ion Ratio Lower Upper

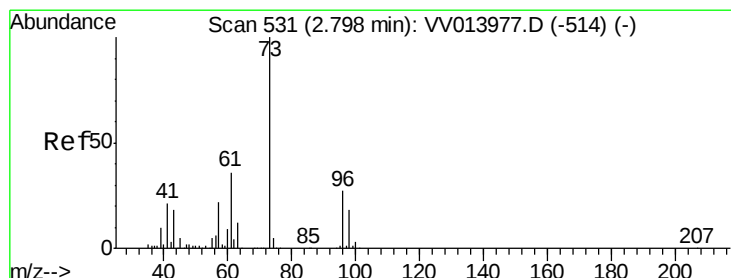
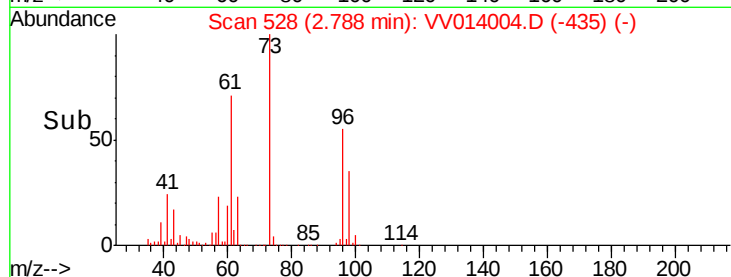
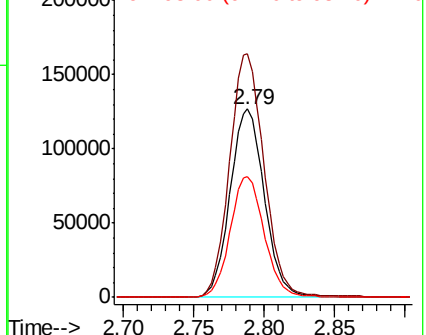
96 100

61 129.4 92.2 171.2

98 64.4 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: 46.800 ug/L

RT: 2.80 min Scan# 531

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

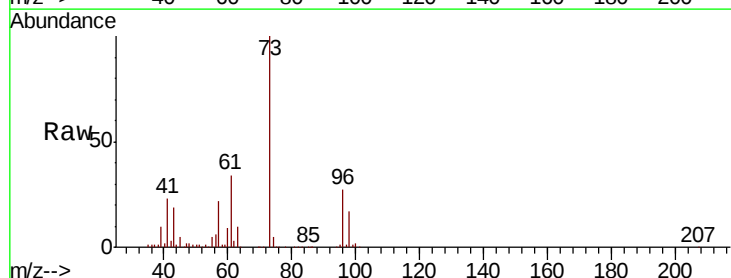
Tgt Ion: 73 Resp: 635940

Ion Ratio Lower Upper

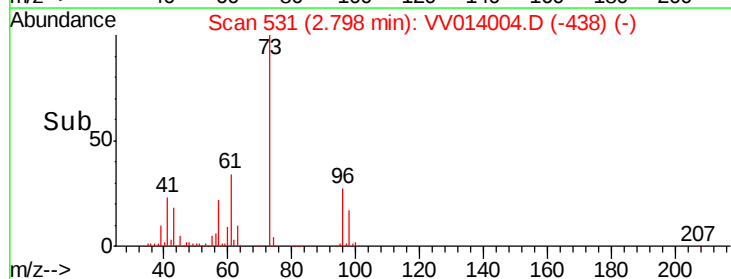
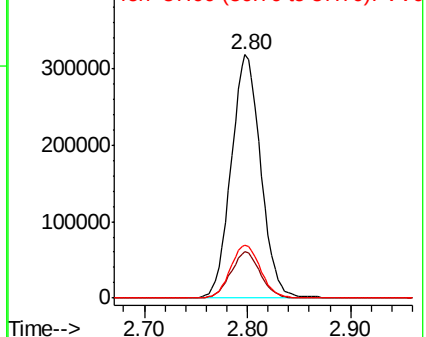
73 100

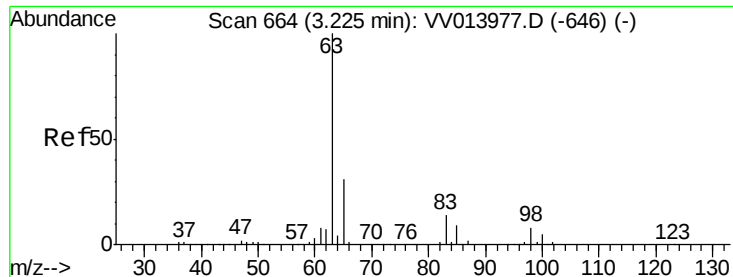
43 19.0 15.0 22.6

57 22.1 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

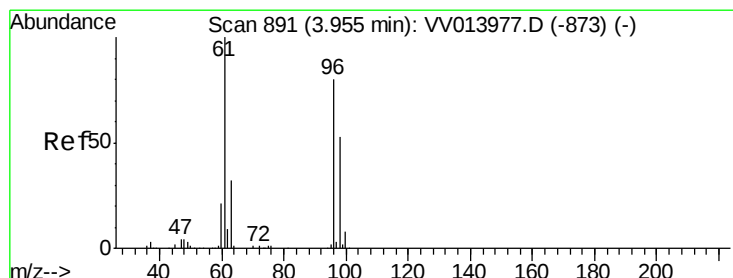
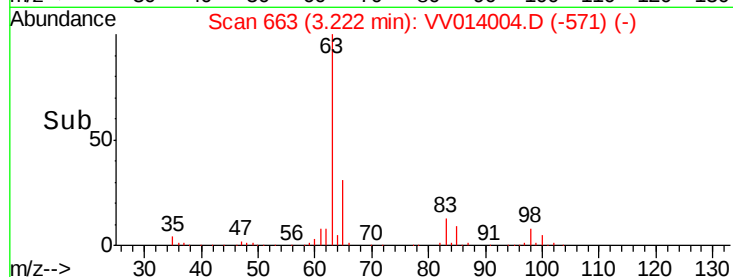
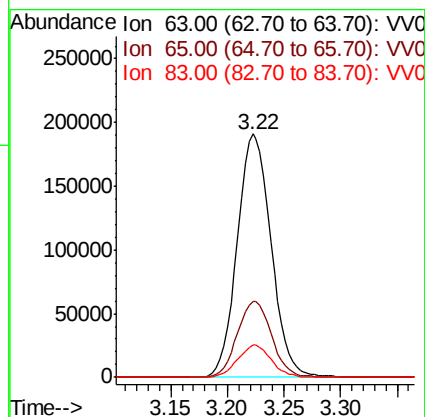
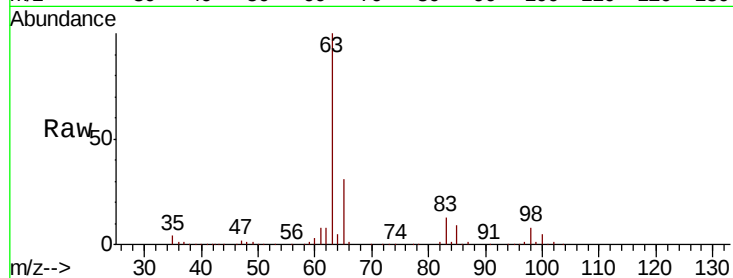




#19
 1,1-Dichloroethane
 Concen: 47.339 ug/L
 RT: 3.22 min Scan# 663
 Delta R.T. -0.00 min
 Lab File: VV014004.D
 Acq: 11 Dec 2019 09:59

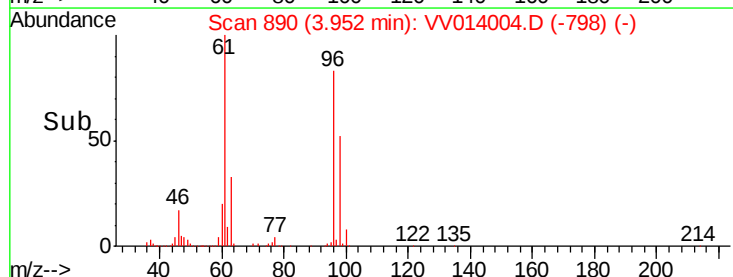
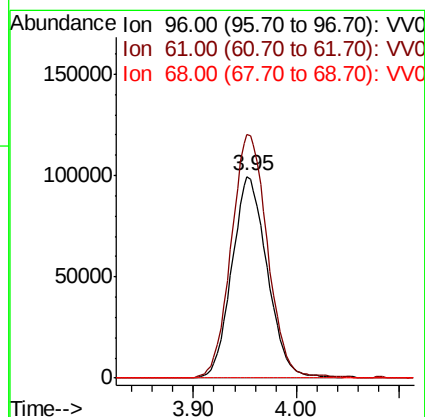
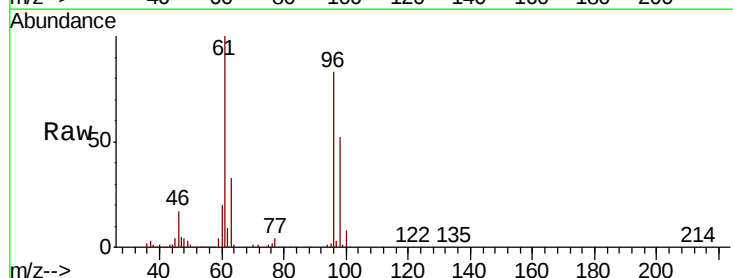
Instrument :
 MSVOA_V
 ClientSampleId :

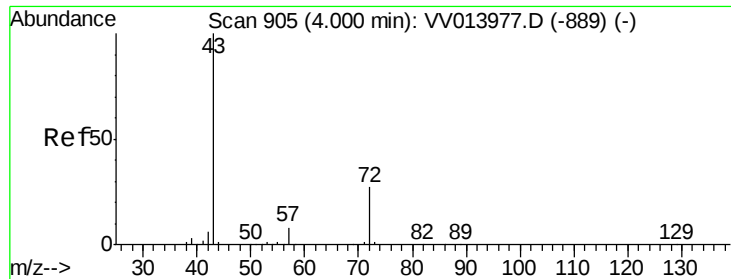
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.4	21.5	39.9
83	13.3	9.7	18.1



#20
 cis-1,2-Dichloroethene
 Concen: 46.873 ug/L
 RT: 3.95 min Scan# 890
 Delta R.T. -0.00 min
 Lab File: VV014004.D
 Acq: 11 Dec 2019 09:59

Tgt Ion	Ratio	Lower	Upper
96	100		
61	120.8	85.3	158.5
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 96.618 ug/L

RT: 4.00 min Scan# 905

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

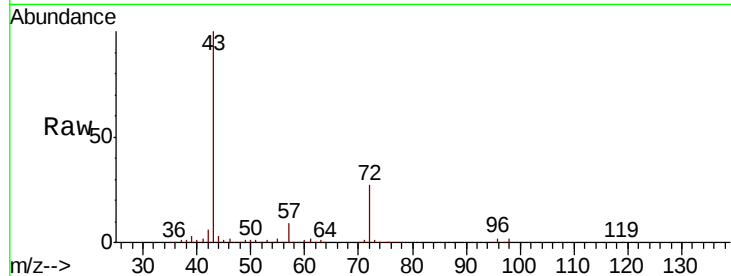
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 364551

Ion Ratio Lower Upper

43 100

72 25.9 14.1 42.2



Abundance Ion 43.00 (42.70 to 43.70): VV013977.D (-889) (-)

Ion 72.00 (71.70 to 72.70): VV013977.D (-889) (-)

4.00

150000

100000

50000

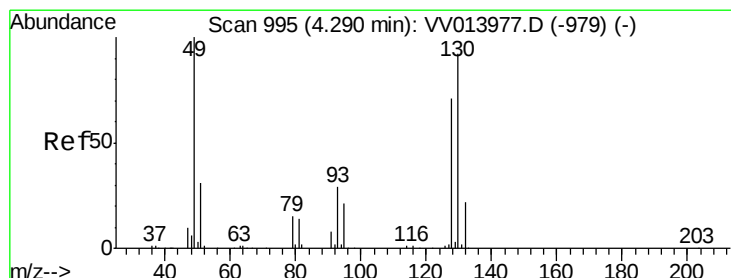
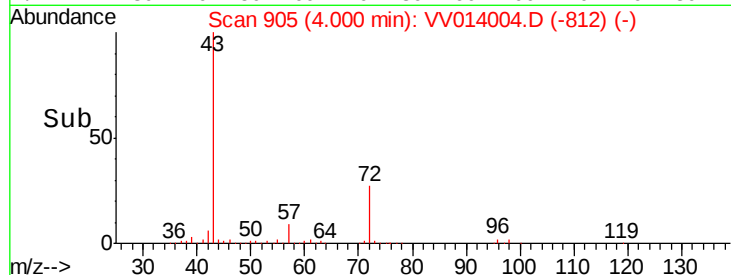
0

Time-->

3.90

4.00

4.10



#23

Bromochloromethane

Concen: 47.552 ug/L

RT: 4.29 min Scan# 995

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

Tgt Ion: 128 Resp: 133220

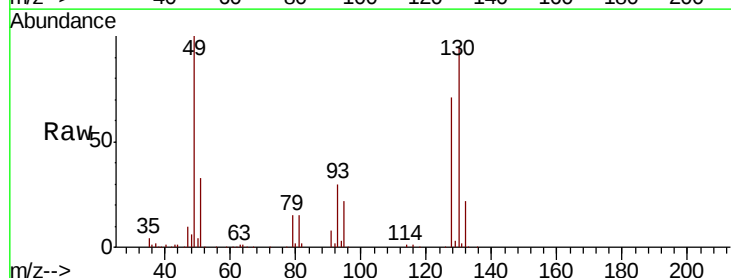
Ion Ratio Lower Upper

128 100

49 139.9 100.4 186.4

130 133.0 88.3 163.9

51 45.7 35.8 53.8



Abundance Ion 128.00 (127.70 to 128.70): VV013977.D (-979) (-)

Ion 49.00 (48.70 to 49.70): VV013977.D (-979) (-)

Ion 130.00 (129.70 to 130.70): VV013977.D (-979) (-)

Ion 51.00 (50.70 to 51.70): VV013977.D (-979) (-)

120000

100000

80000

60000

40000

20000

0

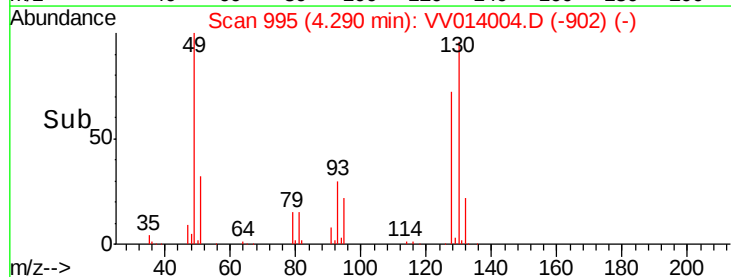
Time-->

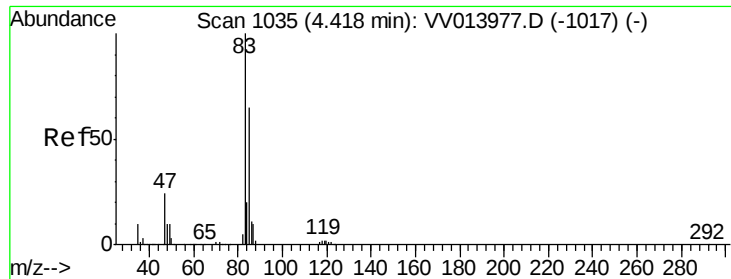
4.20

4.25

4.30

4.35





#25

Chloroform

Concen: 47.136 ug/L

RT: 4.42 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

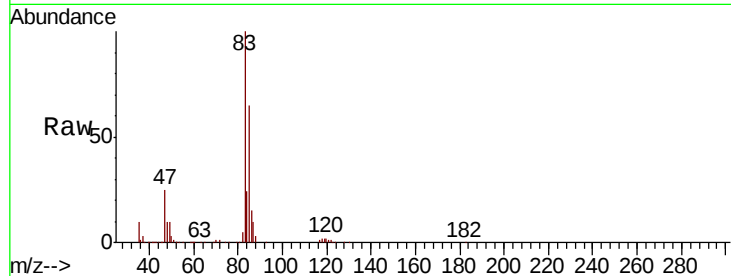
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 425108

Ion Ratio Lower Upper

83 100

85 65.3 45.7 84.9



Abundance Ion 83.00 (82.70 to 83.70): VV014004.D (-942) (-)

Ion 85.00 (84.70 to 85.70): VV014004.D (-942) (-)

4.42

200000

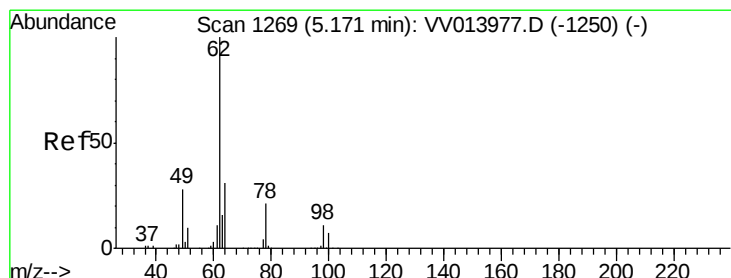
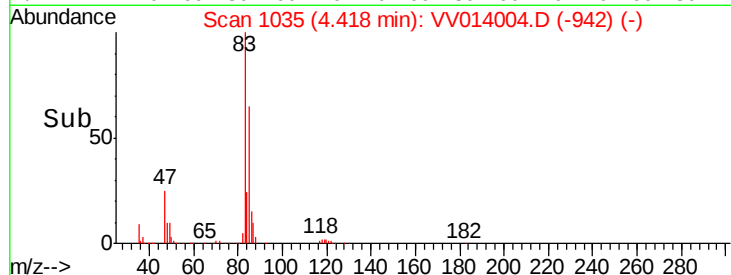
150000

100000

50000

0

Time--> 4.30 4.40 4.50



#27

1,2-Dichloroethane

Concen: 49.208 ug/L

RT: 5.17 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VV014004.D

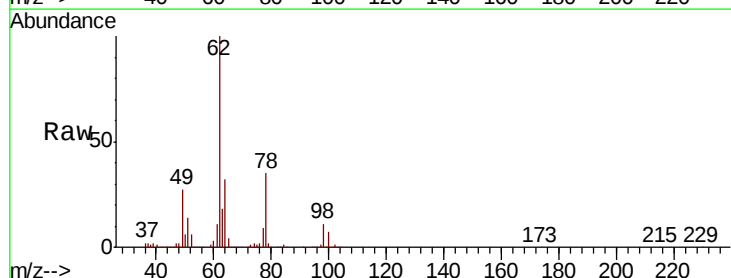
Acq: 11 Dec 2019 09:59

Tgt Ion: 62 Resp: 319788

Ion Ratio Lower Upper

62 100

98 10.6 8.5 12.7



Abundance Ion 62.00 (61.70 to 62.70): VV014004.D (-1176) (-)

Ion 98.00 (97.70 to 98.70): VV014004.D (-1176) (-)

5.17

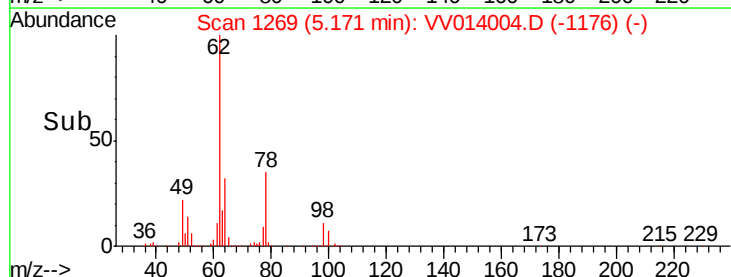
150000

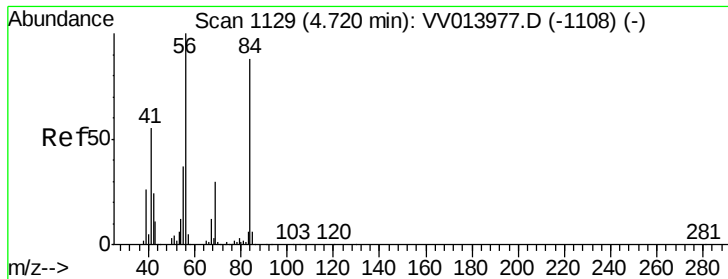
100000

50000

0

Time--> 5.10 5.20 5.30

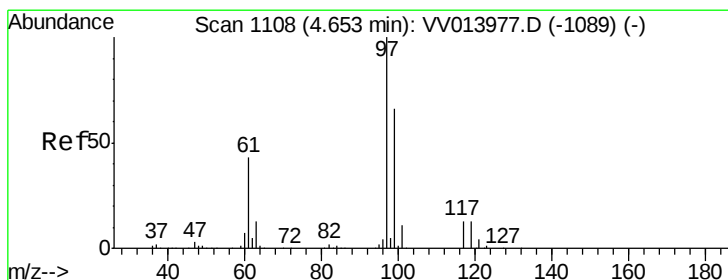
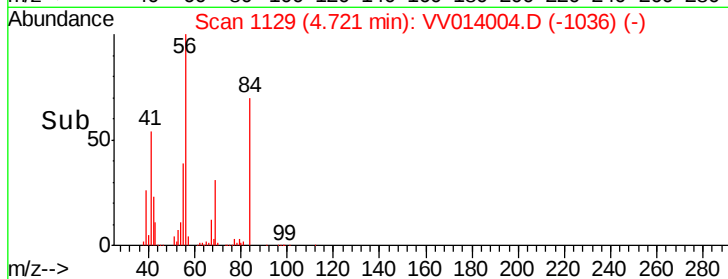
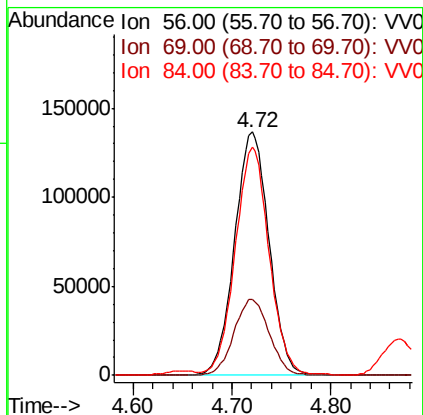
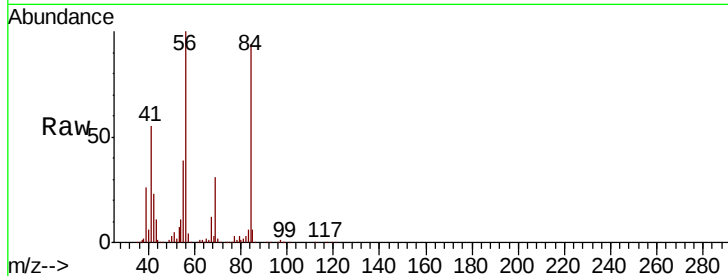




#29
Cyclohexane
Concen: 45.508 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

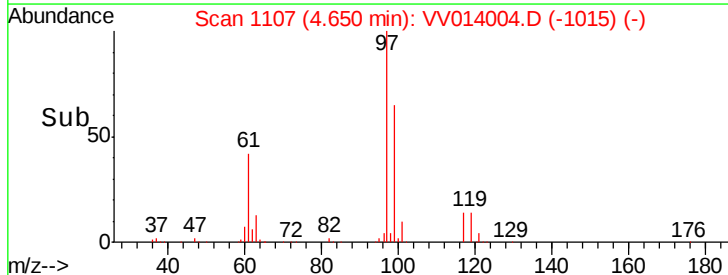
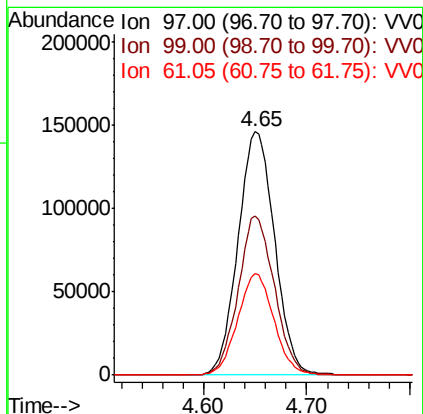
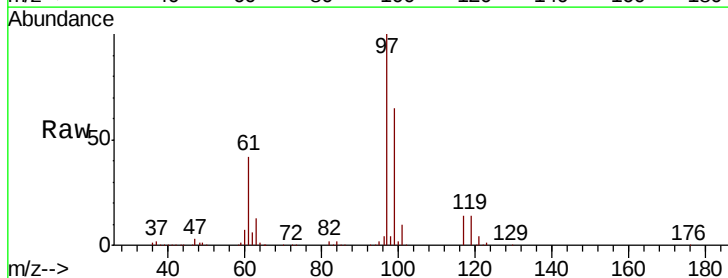
Instrument :
MSVOA_V
ClientSampleId :

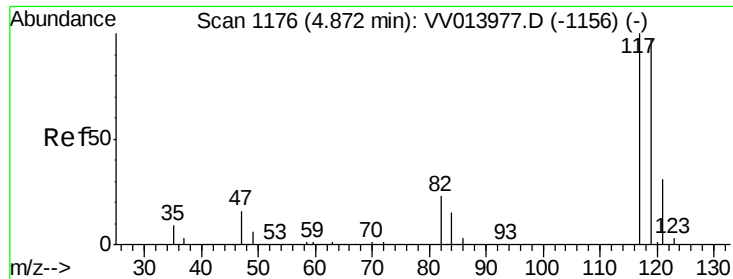
Tot Ion	Ratio	Lower	Upper
56	100		
69	32.0	24.9	37.3
84	91.1	71.0	106.4



#30
1,1,1-Trichloroethane
Concen: 48.030 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.4	77.2
61	41.4	33.2	49.8

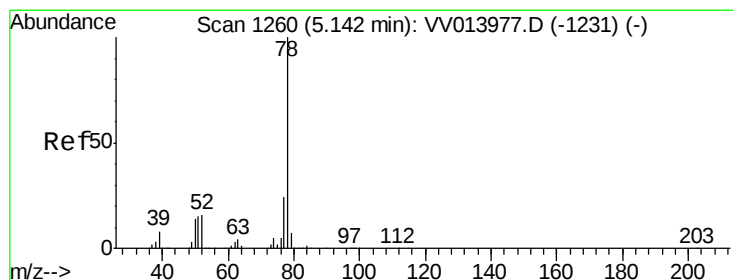
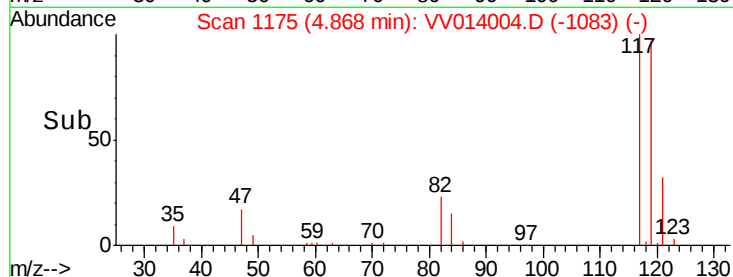
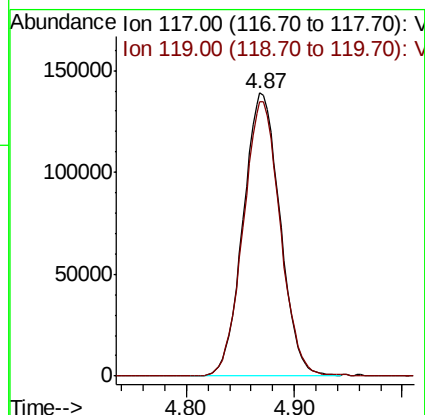
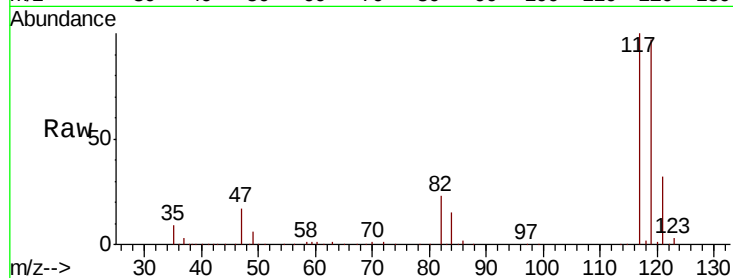




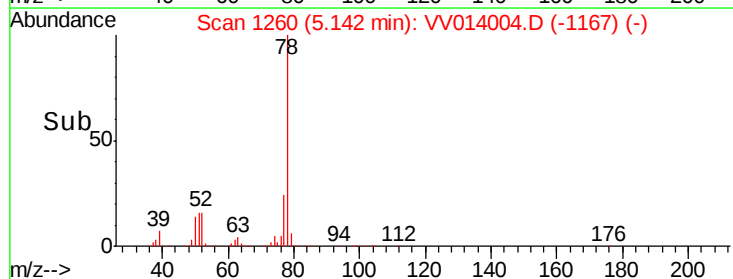
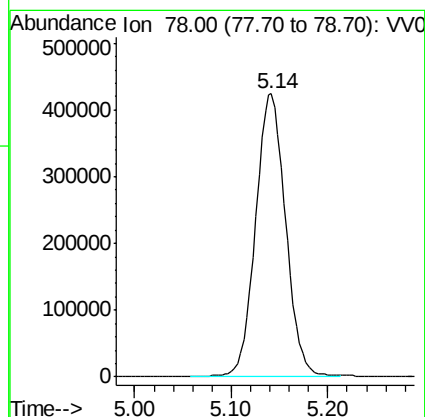
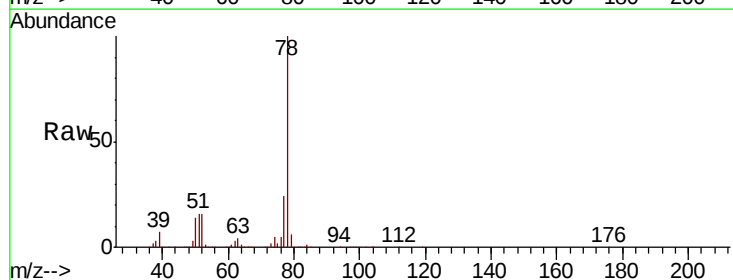
#31
Carbon tetrachloride
Concen: 49.133 ug/L
RT: 4.87 min Scan# 1175
Delta R.T. -0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

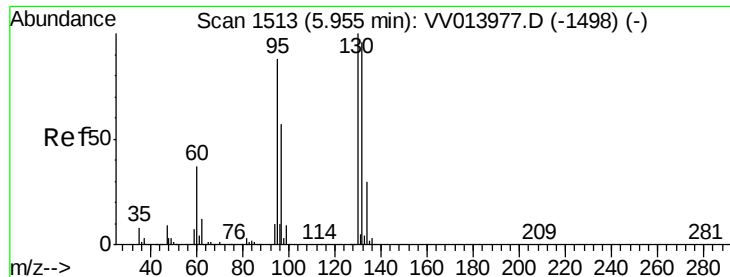
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:117 Resp: 330163
Ion Ratio Lower Upper
117 100
119 97.2 77.9 116.9



#33
Benzene
Concen: 49.252 ug/L
RT: 5.14 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59
Tgt Ion: 78 Resp: 913978

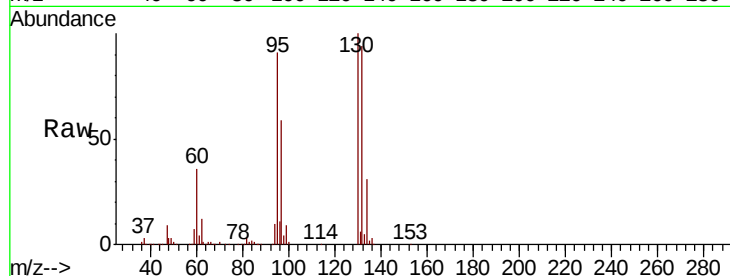




#34
 Trichloroethene
 Concen: 49.540 ug/L
 RT: 5.95 min Scan# 1512
 Delta R.T. -0.00 min
 Lab File: VV014004.D
 Acq: 11 Dec 2019 09:59

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion	95	Resp	246569
Ion Ratio	Lower	Upper	
95	100		
97	64.2	45.4	84.4
132	103.3	73.7	136.9
130	109.4	77.1	143.1

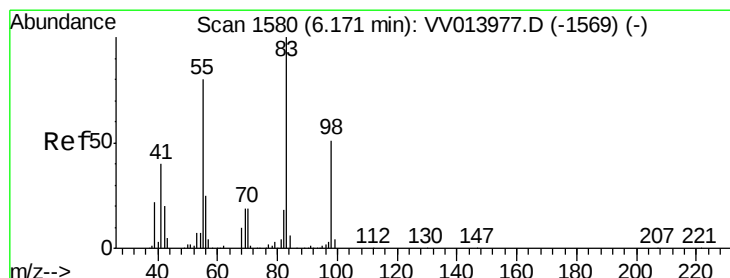
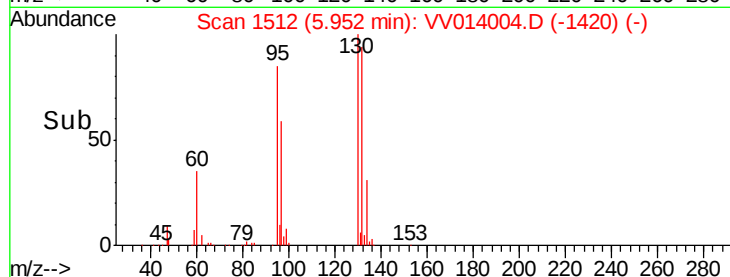
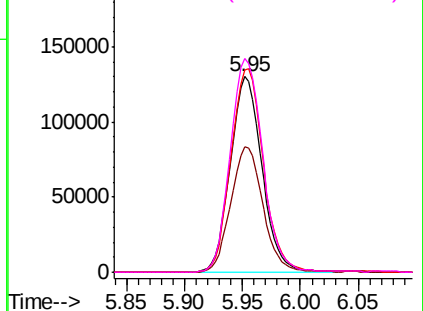


Abundance Ion 95.00 (94.70 to 95.70): VV013977.D (-1498) (-)

Ion 97.00 (96.70 to 97.70): VV013977.D (-1498) (-)

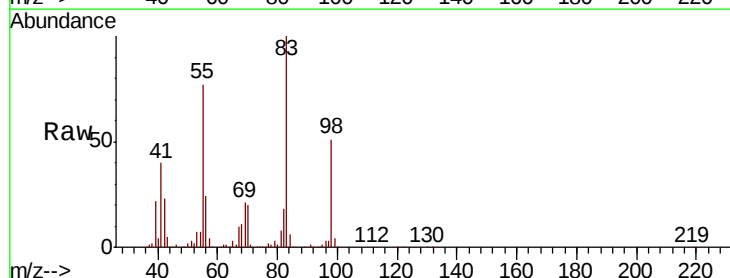
Ion 132.00 (131.70 to 132.70): VV013977.D (-1498) (-)

Ion 130.00 (129.70 to 130.70): VV013977.D (-1498) (-)



#35
 Methylcyclohexane
 Concen: 48.326 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. 0.00 min
 Lab File: VV014004.D
 Acq: 11 Dec 2019 09:59

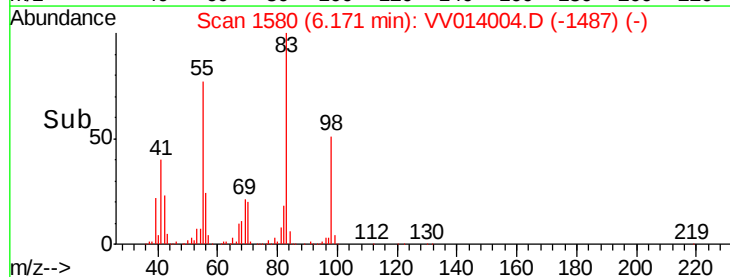
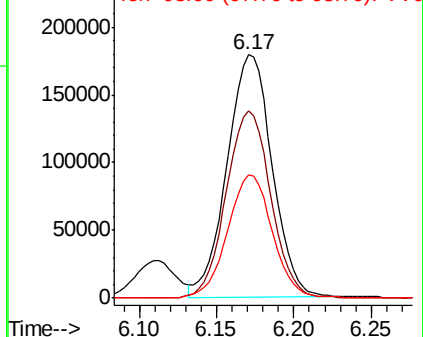
Tgt Ion	83	Resp	360888
Ion Ratio	Lower	Upper	
83	100		
55	76.5	61.0	91.4
98	50.1	39.6	59.4

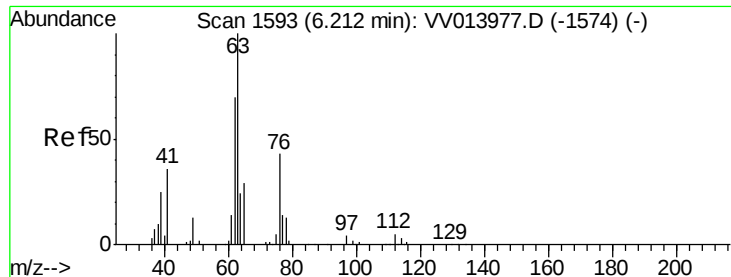


Abundance Ion 83.00 (82.70 to 83.70): VV013977.D (-1569) (-)

Ion 55.00 (54.70 to 55.70): VV013977.D (-1569) (-)

Ion 98.00 (97.70 to 98.70): VV013977.D (-1569) (-)

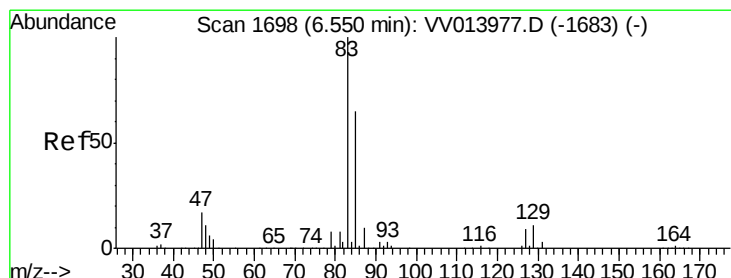
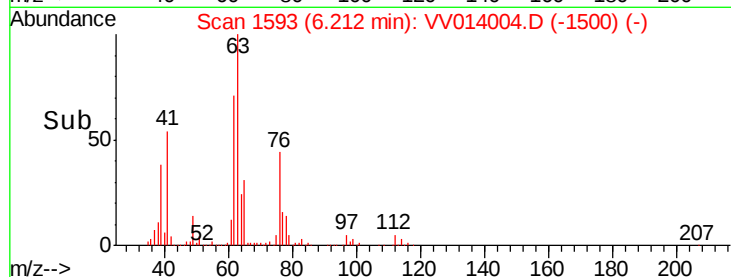
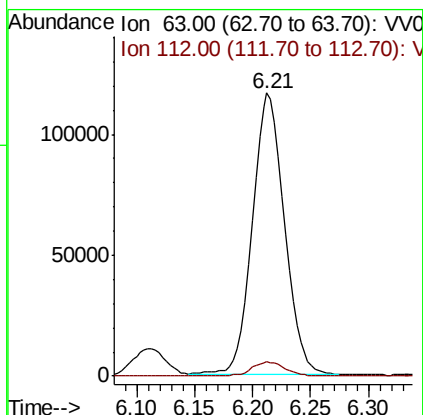
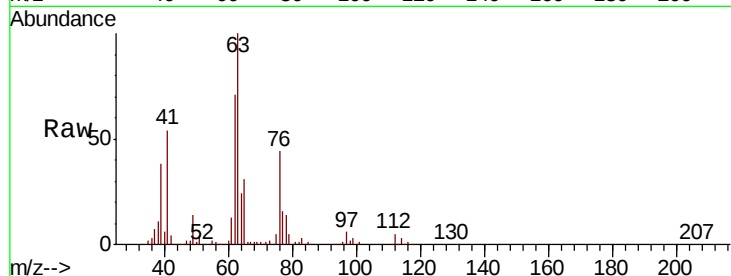




#37
 1,2-Dichloropropane
 Concen: 50.107 ug/L
 RT: 6.21 min Scan# 1593
 Delta R.T. 0.00 min
 Lab File: VV014004.D
 Acq: 11 Dec 2019 09:59

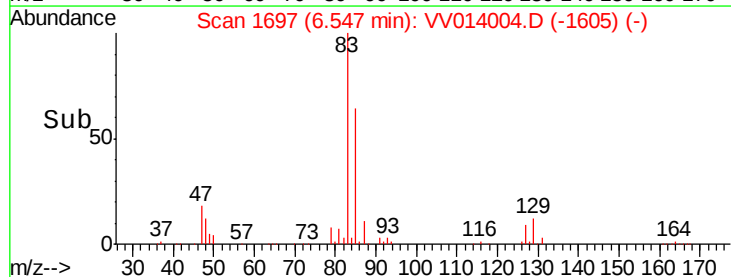
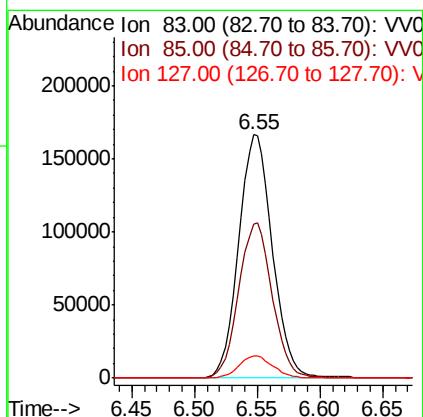
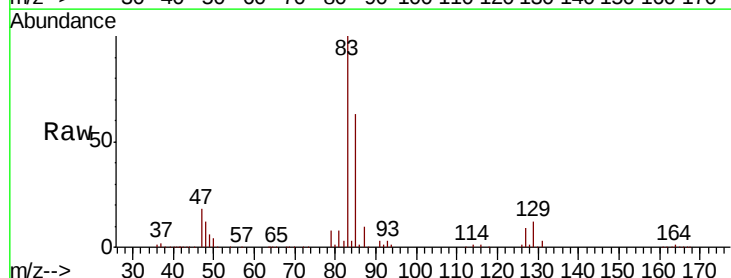
Instrument :
 MSVOA_V
 ClientSampleId :

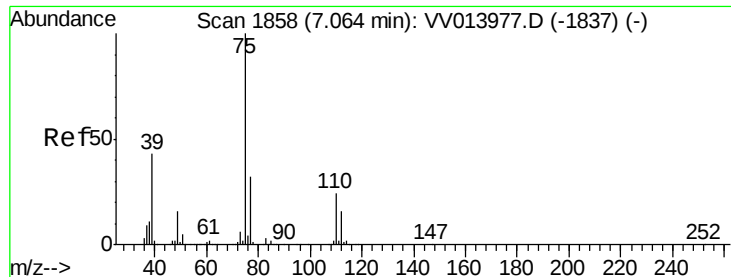
Tot Ion: 63 Resp: 225044
 Ion Ratio Lower Upper
 63 100
 112 5.5 4.2 6.2



#38
 Bromodichloromethane
 Concen: 48.913 ug/L
 RT: 6.55 min Scan# 1697
 Delta R.T. -0.00 min
 Lab File: VV014004.D
 Acq: 11 Dec 2019 09:59

Tgt Ion: 83 Resp: 311550
 Ion Ratio Lower Upper
 83 100
 85 63.3 44.8 83.2
 127 9.1 7.7 11.5



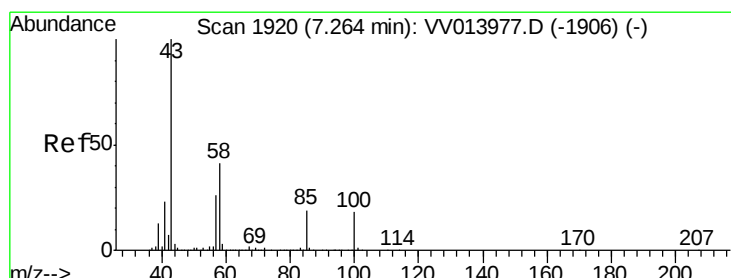
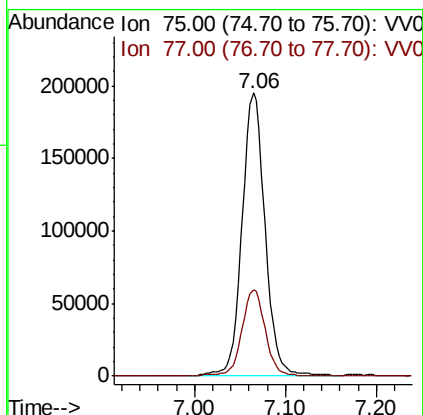
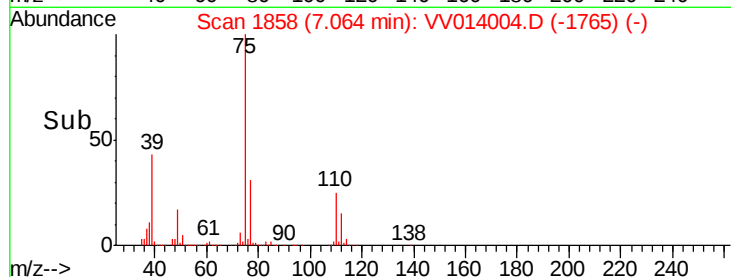
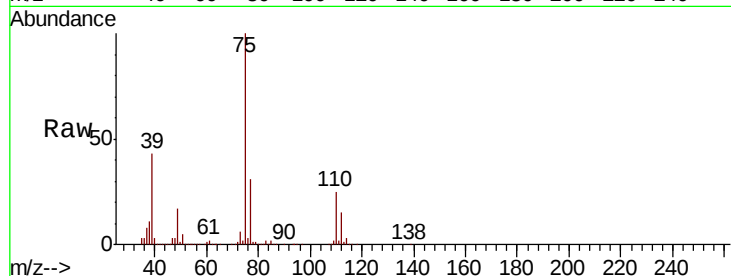


#39

cis-1,3-Dichloropropene
Concen: 48.808 ug/L
RT: 7.06 min Scan# 1858
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

Instrument :
MSVOA_V
ClientSampleId :

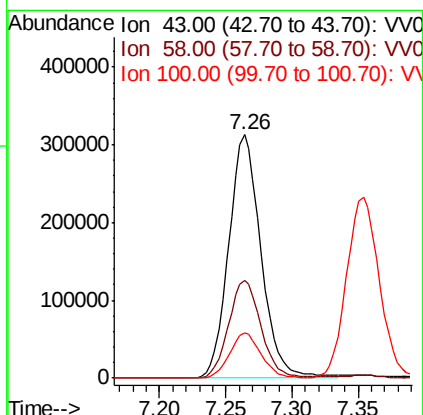
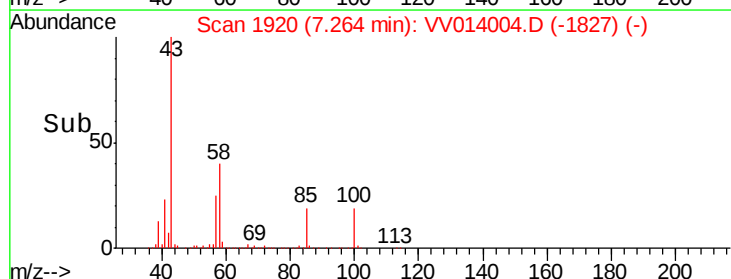
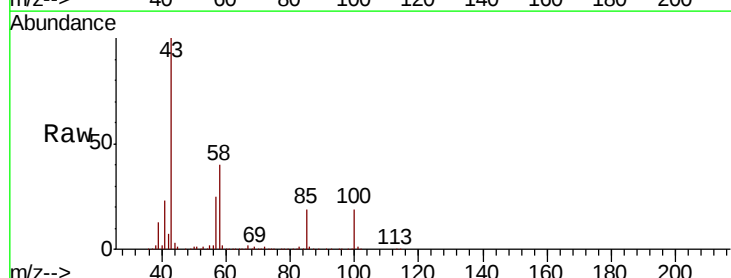
Tot Ion: 75 Resp: 345095
Ion Ratio Lower Upper
75 100
77 30.6 21.6 40.2

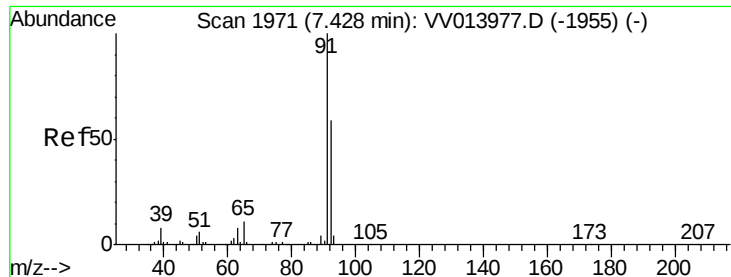


#40

4-Methyl-2-pentanone
Concen: 90.459 ug/L
RT: 7.26 min Scan# 1920
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

Tgt Ion: 43 Resp: 528304
Ion Ratio Lower Upper
43 100
58 40.7 31.9 47.9
100 18.2 13.7 20.5





#42

Toluene

Concen: 48.806 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

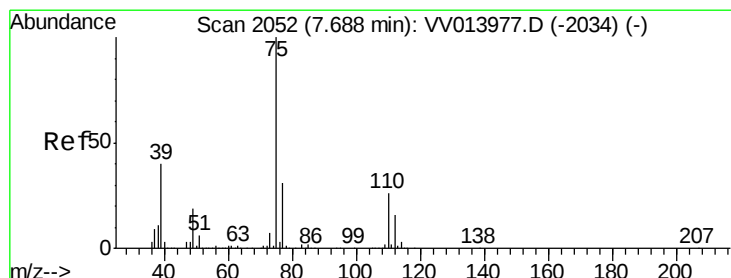
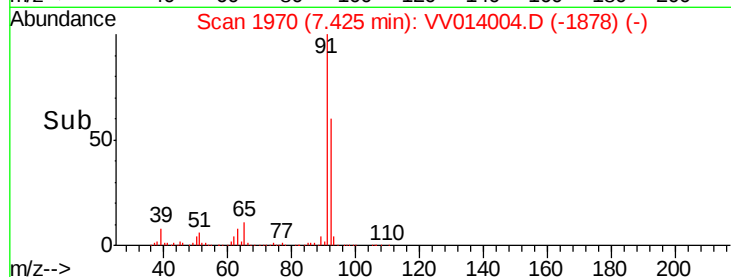
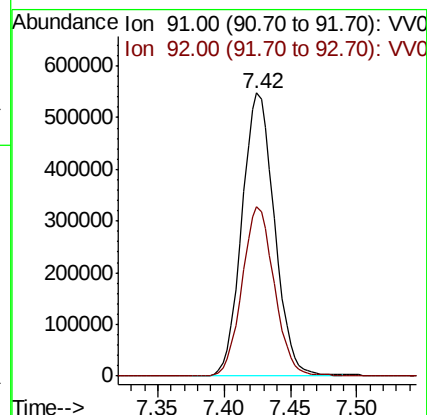
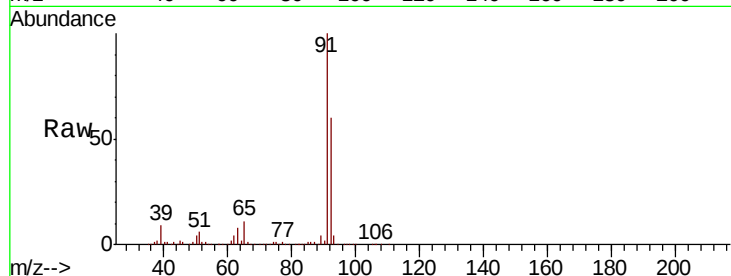
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 934468

Ion Ratio Lower Upper

91 100

92 59.8 41.4 77.0



#44

trans-1,3-Dichloropropene

Concen: 46.681 ug/L

RT: 7.69 min Scan# 2051

Delta R.T. -0.00 min

Lab File: VV014004.D

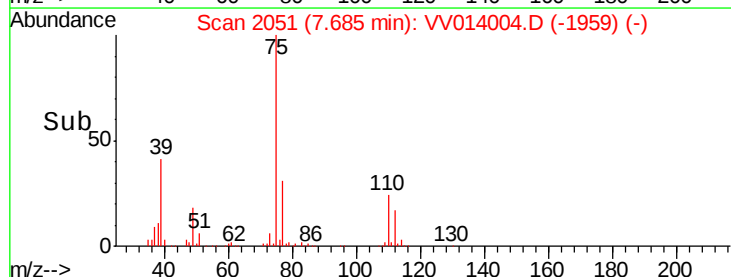
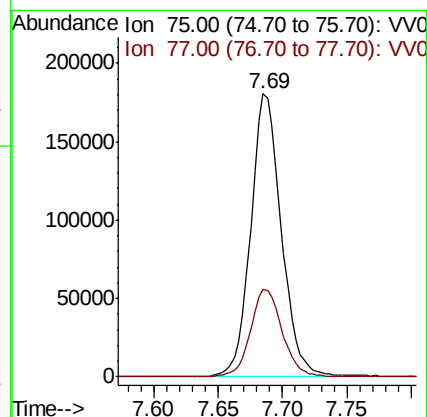
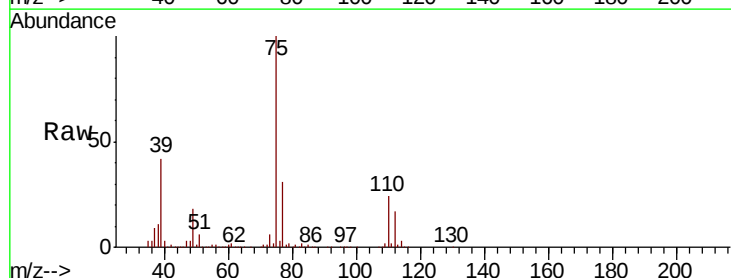
Acq: 11 Dec 2019 09:59

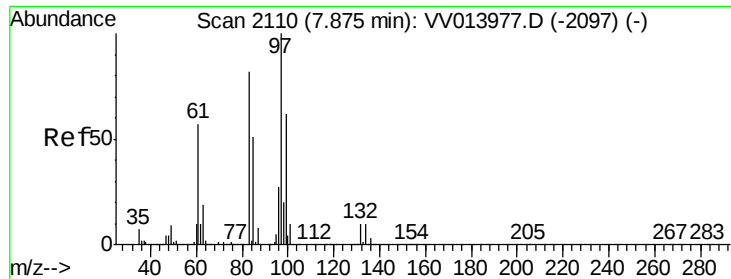
Tgt Ion: 75 Resp: 298883

Ion Ratio Lower Upper

75 100

77 30.8 22.9 42.5

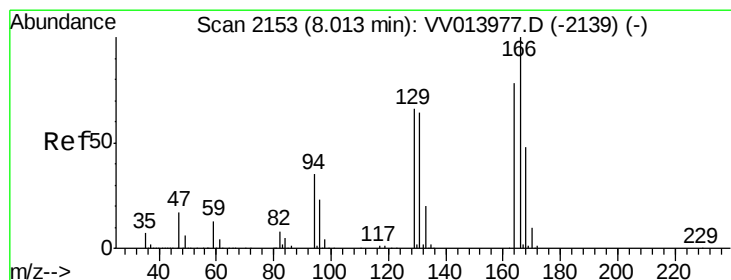
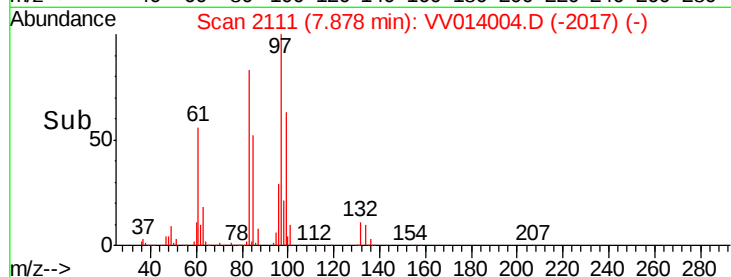
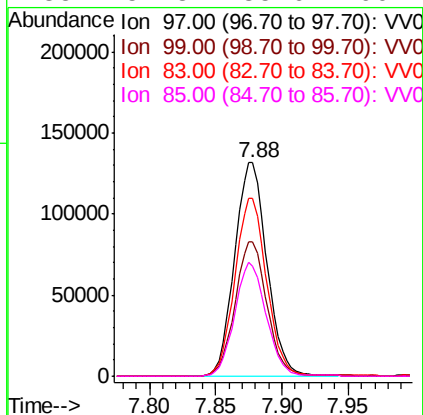
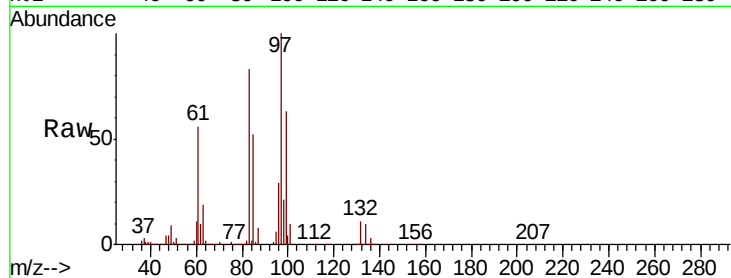




#45
1,1,2-Trichloroethane
Concen: 50.082 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

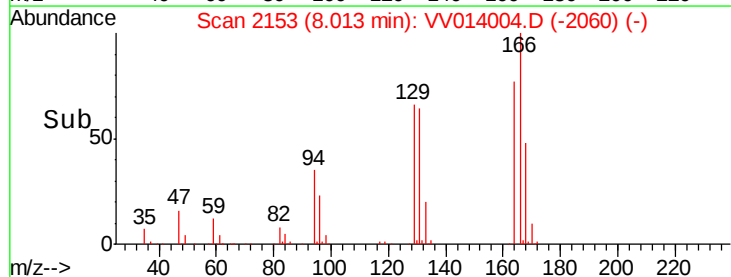
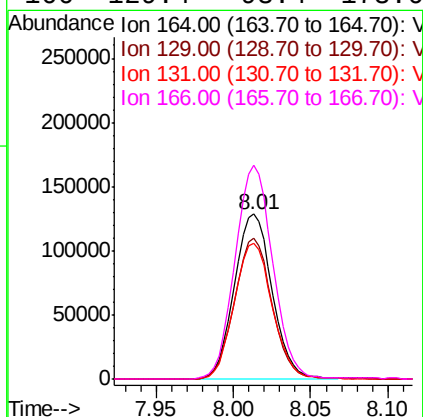
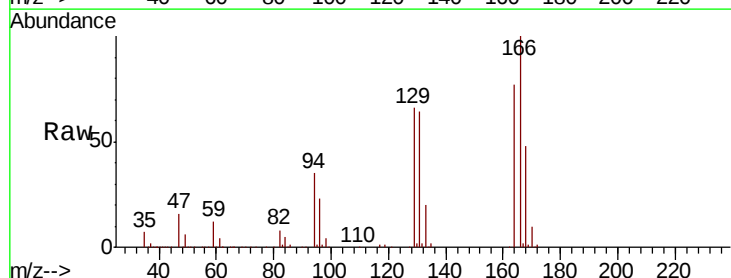
Instrument :
MSVOA_V
ClientSampleId :

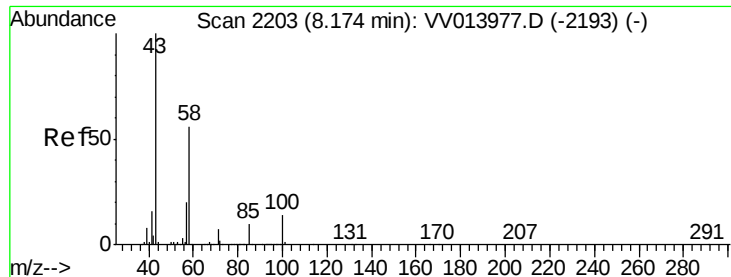
Tot Ion:	97	Resp:	223270
Ion	Ratio	Lower	Upper
97	100		
99	63.1	43.0	80.0
83	83.1	57.5	106.9
85	51.8	35.6	66.2



#46
Tetrachloroethene
Concen: 48.599 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

Tgt Ion:	164	Resp:	218267
Ion	Ratio	Lower	Upper
164	100		
129	85.1	61.7	114.7
131	82.6	58.4	108.6
166	129.4	93.4	173.6

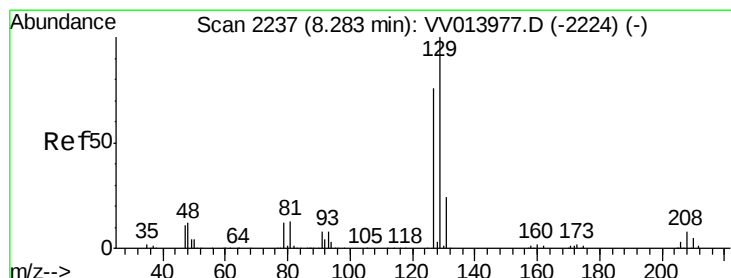
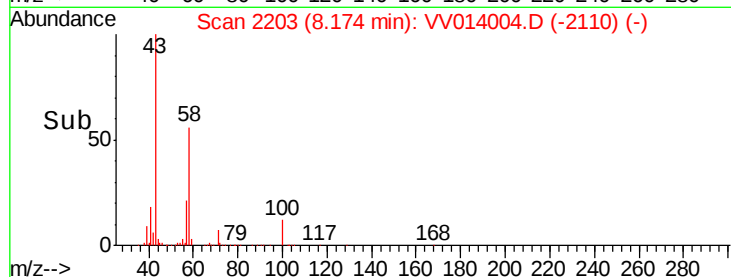
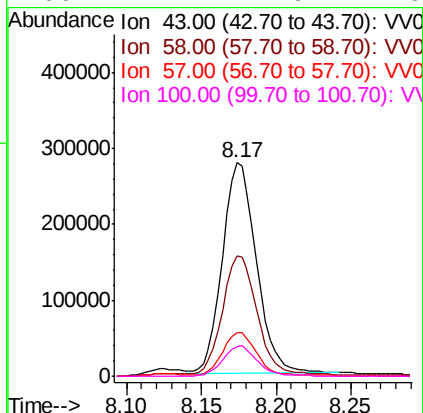
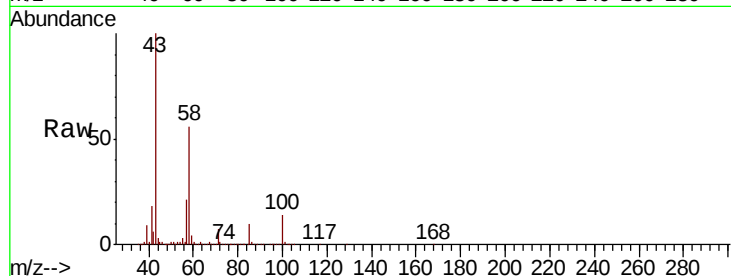




#48
2-Hexanone
Concen: 94.371 ug/L
RT: 8.17 min Scan# 2203
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

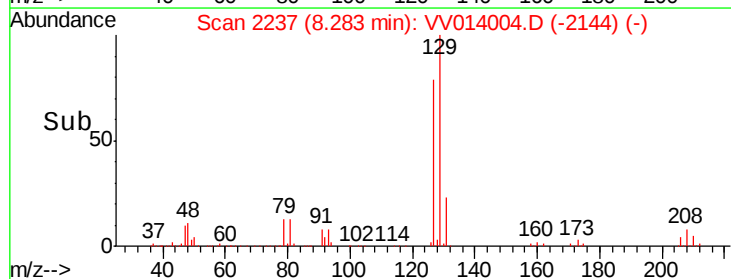
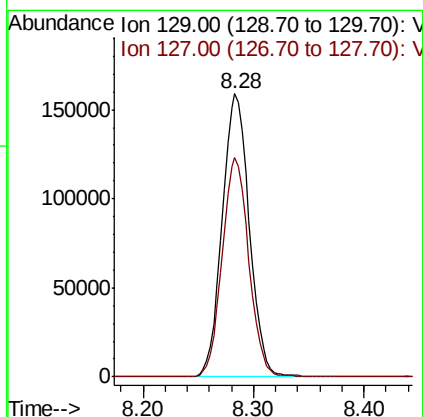
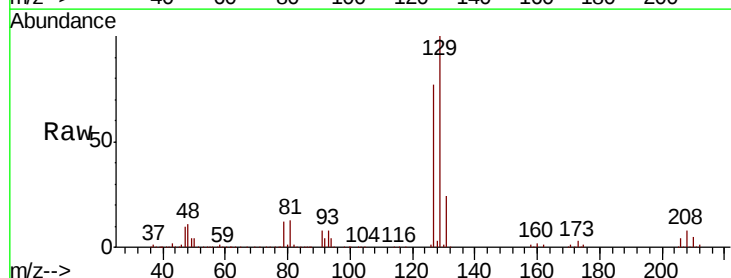
Instrument :
MSVOA_V
ClientSampleId :

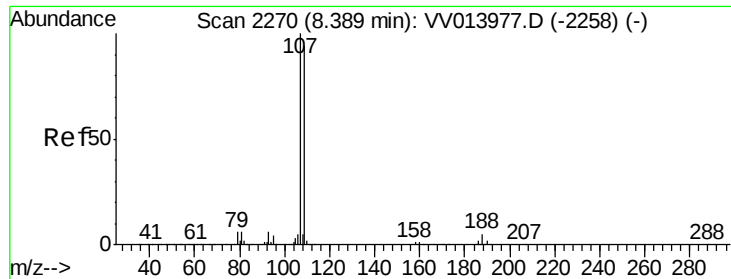
Tot Ion: 43 Resp: 440892
Ion Ratio Lower Upper
43 100
58 58.0 48.4 72.6
57 20.2 16.6 24.8
100 14.4 11.9 17.9



#49
Dibromochloromethane
Concen: 49.844 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

Tgt Ion: 129 Resp: 271629
Ion Ratio Lower Upper
129 100
127 77.4 53.7 99.7

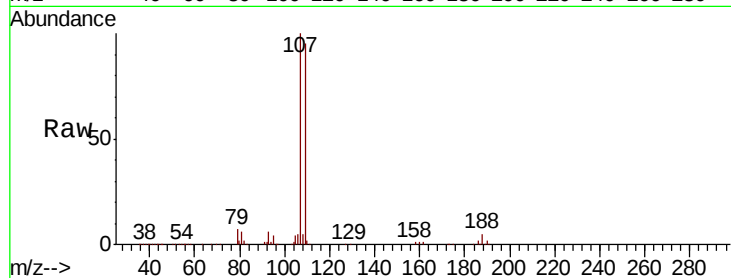




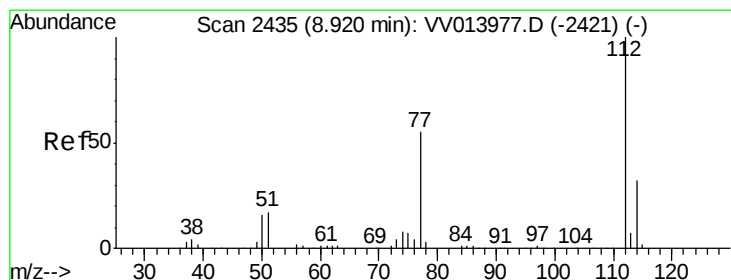
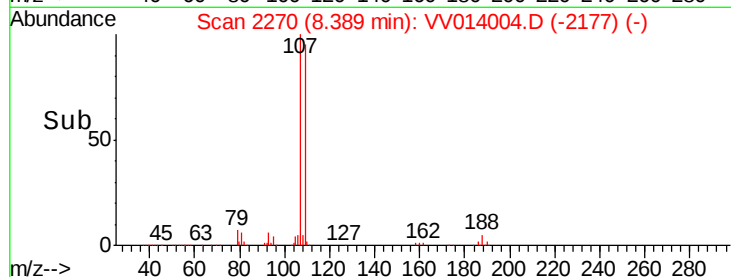
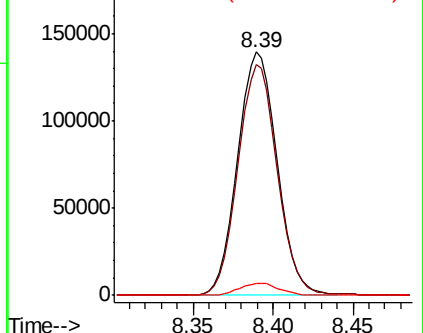
#50
1,2-Dibromoethane
Concen: 47.787 ug/L
RT: 8.39 min Scan# 2270
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.5	65.9	122.5
188	5.0	3.6	5.4

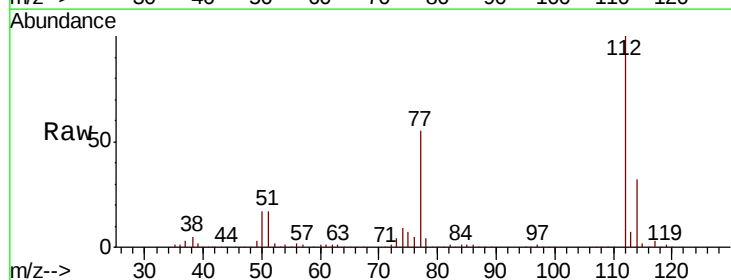


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

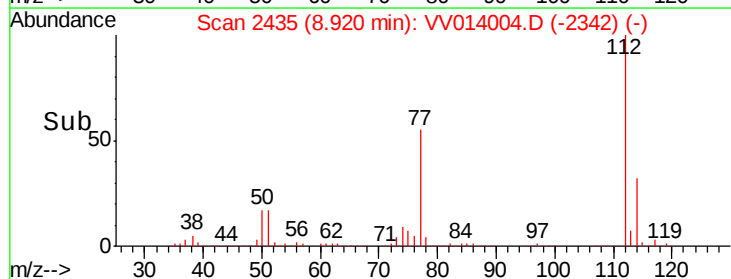
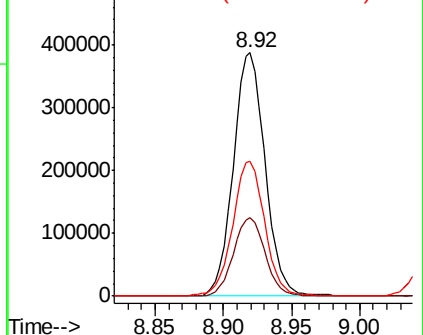


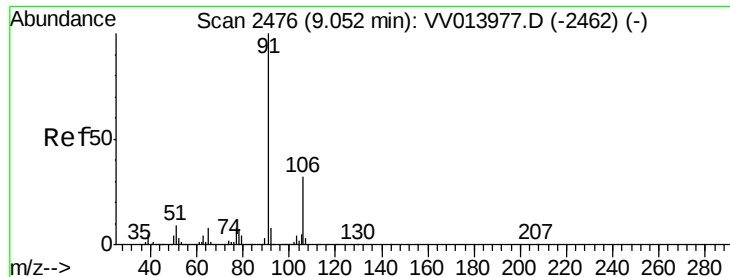
#51
Chlorobenzene
Concen: 47.430 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. 0.00 min
Lab File: VV014004.D
Acq: 11 Dec 2019 09:59

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.2	23.2	43.2
77	55.4	45.0	67.4



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: 49.400 ug/L

RT: 9.05 min Scan# 2475

Delta R.T. -0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

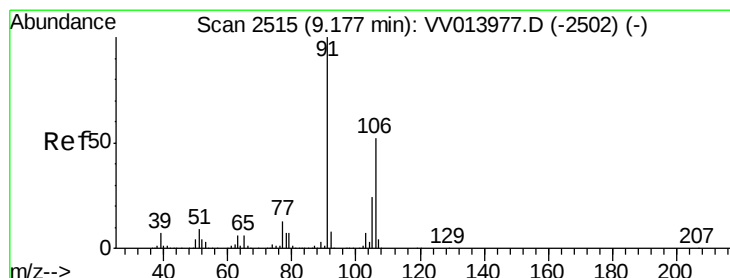
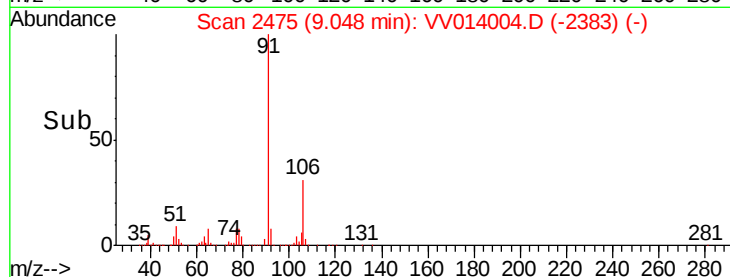
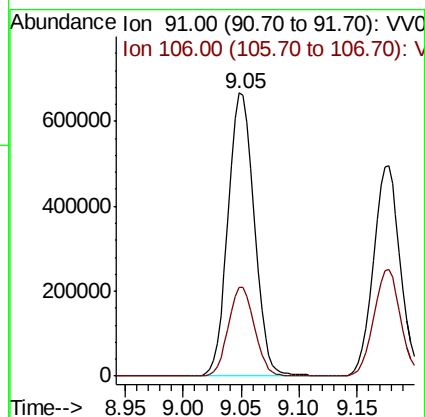
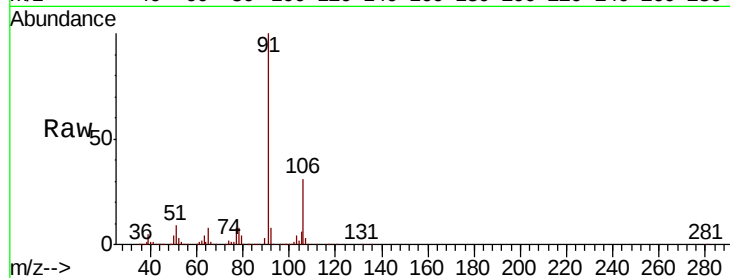
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 1042691

Ion Ratio Lower Upper

91 100

106 31.5 21.8 40.4



#53

m,p-Xylene

Concen: 49.567 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014004.D

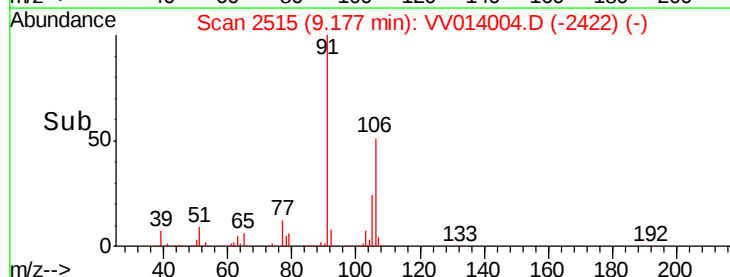
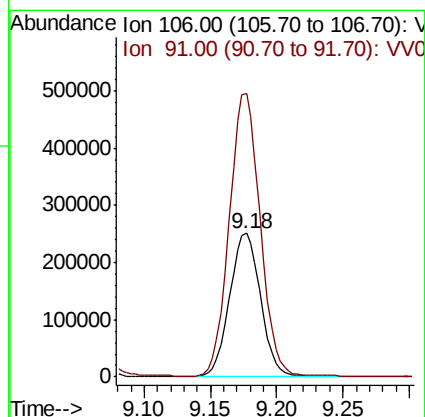
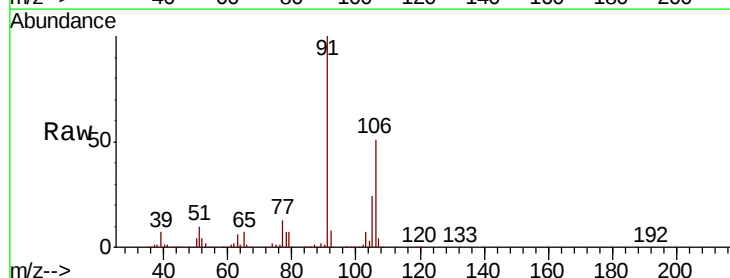
Acq: 11 Dec 2019 09:59

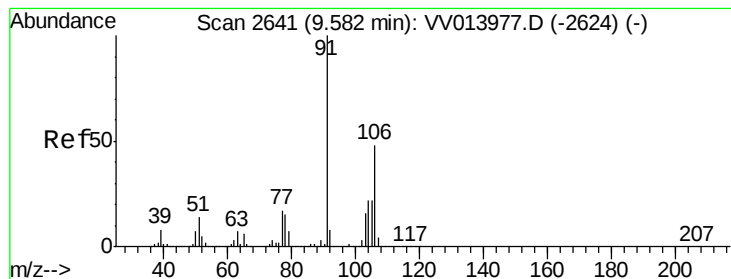
Tgt Ion: 106 Resp: 404582

Ion Ratio Lower Upper

106 100

91 196.9 139.4 259.0





#54

o-xylene

Concen: 48.556 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

Instrument :

MSVOA_V

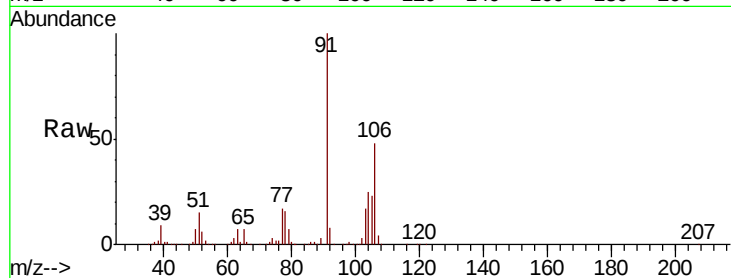
ClientSampled :

Tot Ion:106 Resp: 387512

Ion Ratio Lower Upper

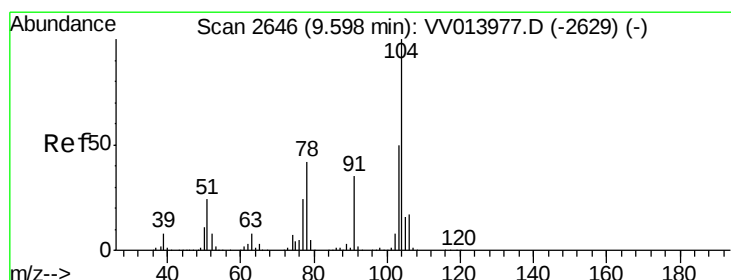
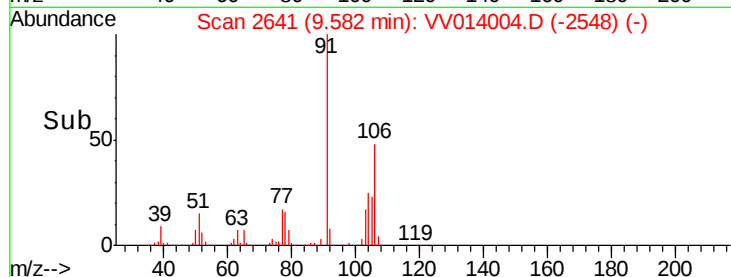
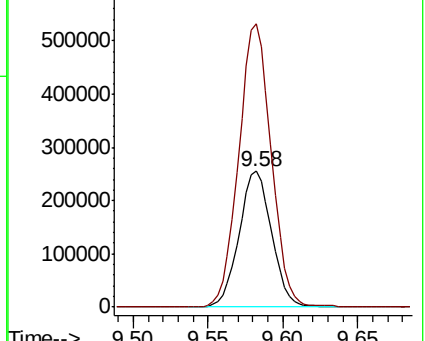
106 100

91 208.5 147.1 273.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

Styrene

Concen: 48.624 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV014004.D

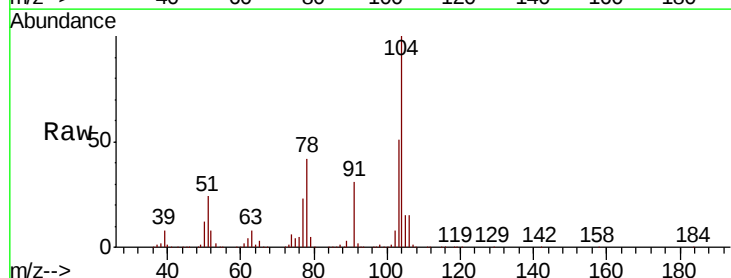
Acq: 11 Dec 2019 09:59

Tgt Ion:104 Resp: 669516

Ion Ratio Lower Upper

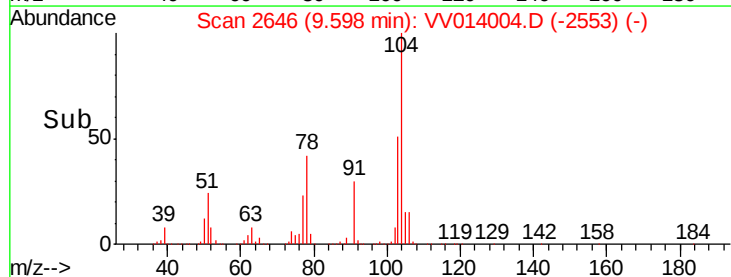
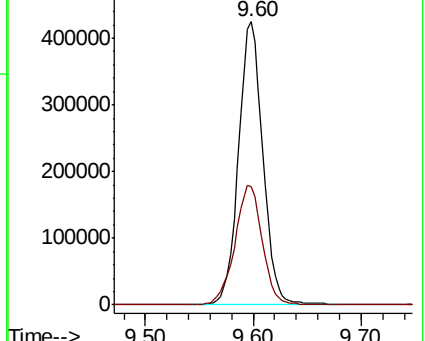
104 100

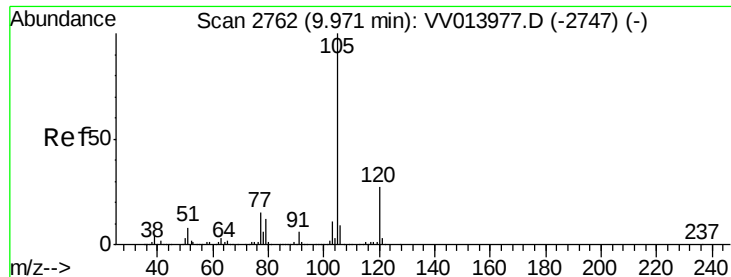
78 41.9 29.3 54.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#56

Isopropylbenzene

Concen: 50.641 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

Instrument :

MSVOA_V

ClientSampleId :

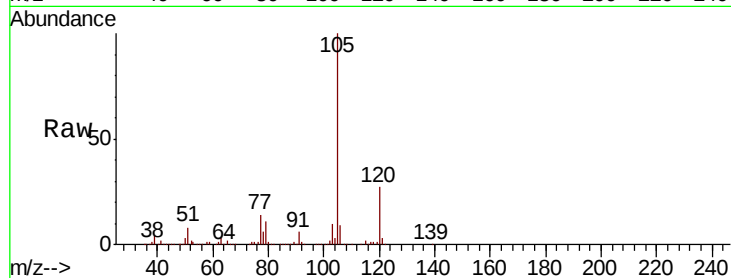
Tot Ion:105 Resp: 1086336

Ion Ratio Lower Upper

105 100

120 27.1 21.4 32.2

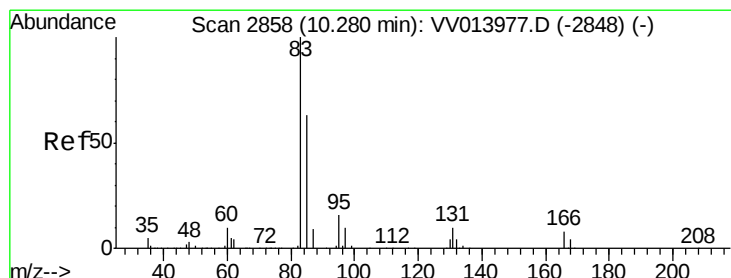
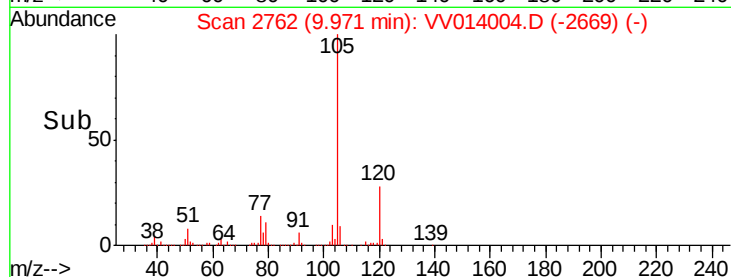
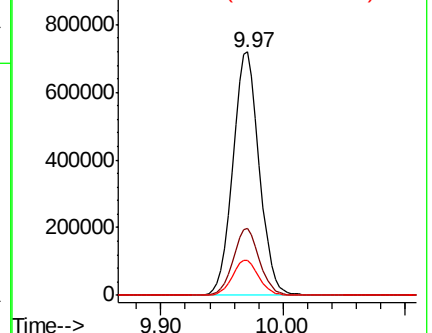
77 14.3 12.0 18.0



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: 45.566 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

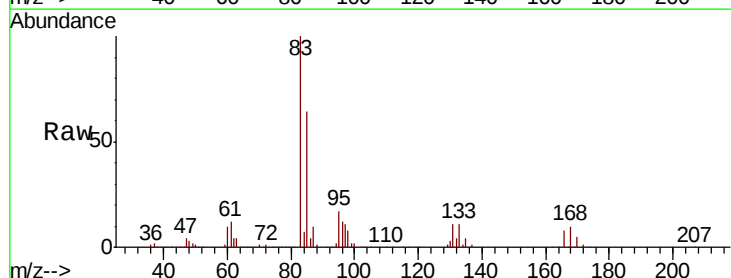
Tgt Ion: 83 Resp: 330698

Ion Ratio Lower Upper

83 100

85 63.5 44.1 81.9

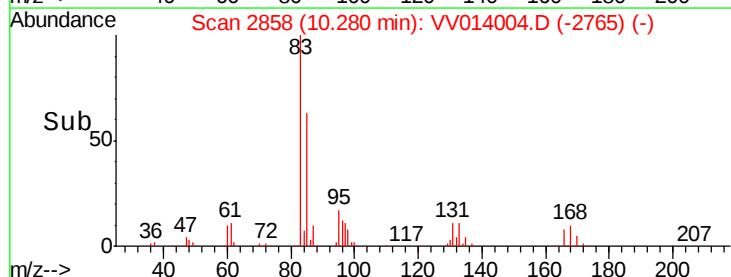
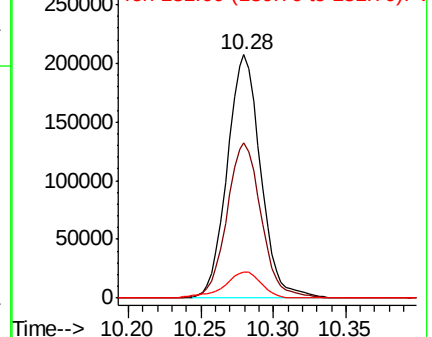
131 10.8 8.8 13.2

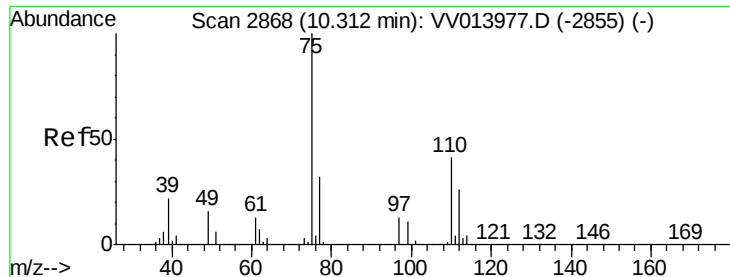


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 44.937 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

Instrument :

MSVOA_V

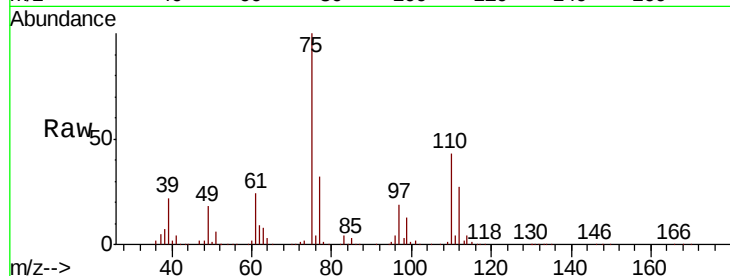
ClientSampleId :

Tot Ion: 75 Resp: 273119

Ion Ratio Lower Upper

75 100

77 31.8 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VV013977.D (-2855) (-)

Ion 77.00 (76.70 to 77.70): VV013977.D (-2855) (-)

10.31

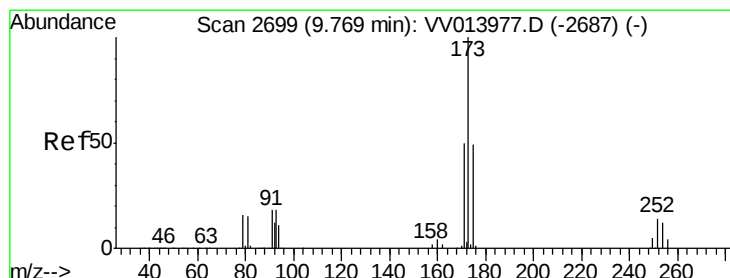
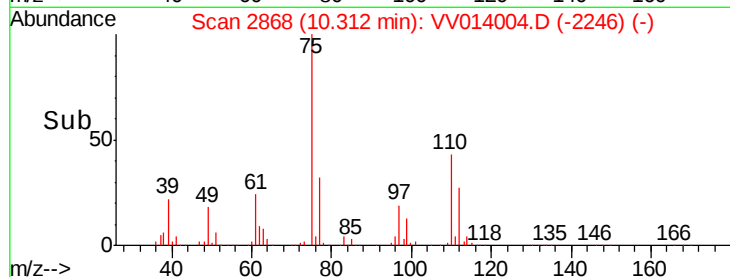
150000

100000

50000

0

Time-->



#61

Bromoform

Concen: 51.162 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

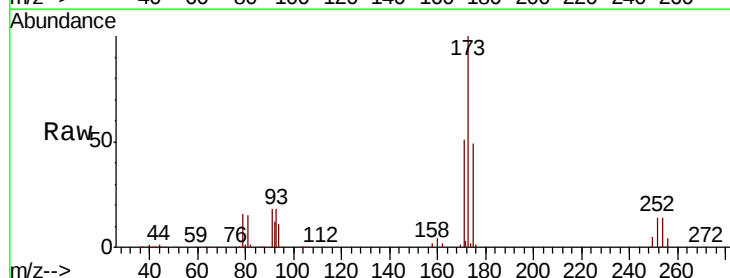
Tgt Ion: 173 Resp: 212491

Ion Ratio Lower Upper

173 100

175 48.6 38.4 57.6

254 13.5 10.5 15.7



Abundance Ion 173.00 (172.70 to 173.70): VV013977.D (-2687) (-)

Ion 175.00 (174.70 to 175.70): VV013977.D (-2687) (-)

Ion 254.00 (253.70 to 254.70): VV013977.D (-2687) (-)

9.77

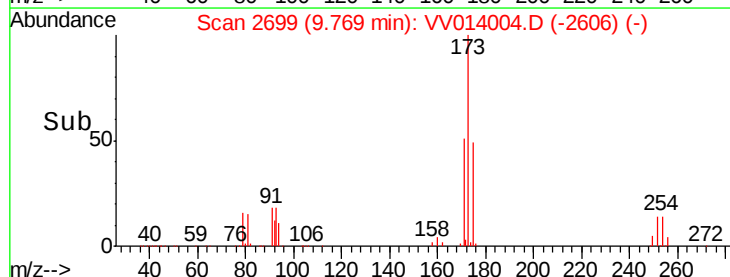
150000

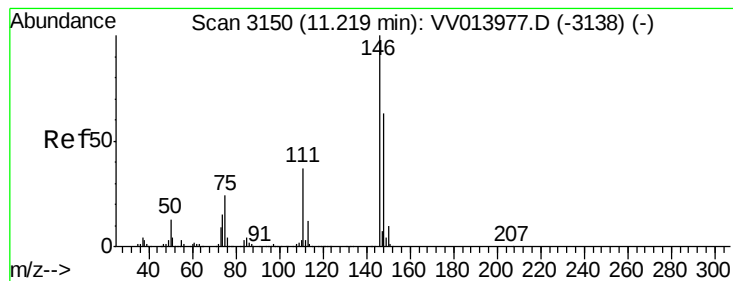
100000

50000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 48.758 ug/L

RT: 11.22 min Scan# 3150

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

Instrument :

MSVOA_V

ClientSampled :

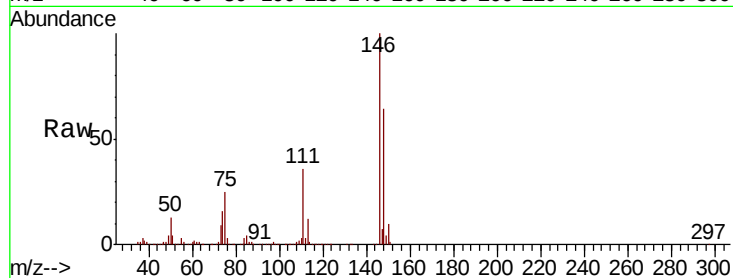
Tot Ion:146 Resp: 543189

Ion Ratio Lower Upper

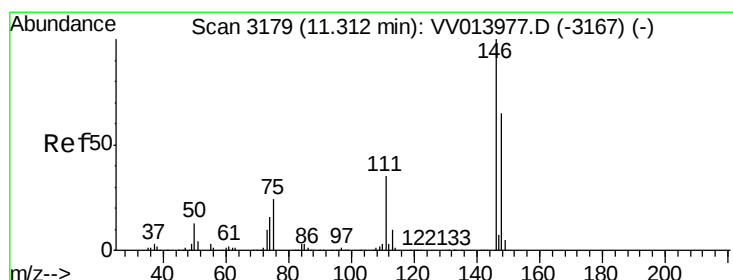
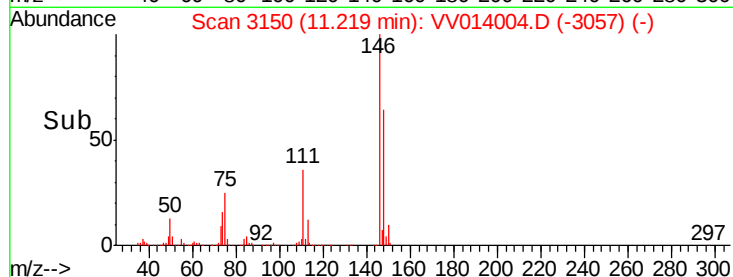
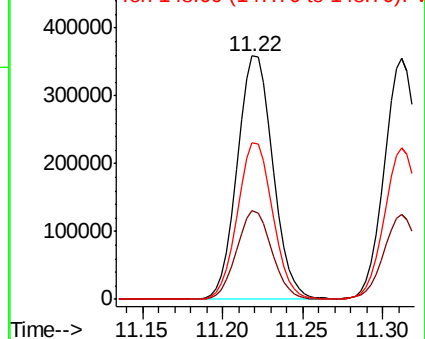
146 100

111 36.2 25.8 48.0

148 64.2 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: 47.166 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

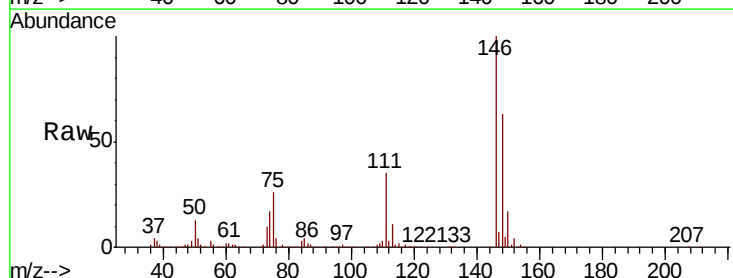
Tgt Ion:146 Resp: 543218

Ion Ratio Lower Upper

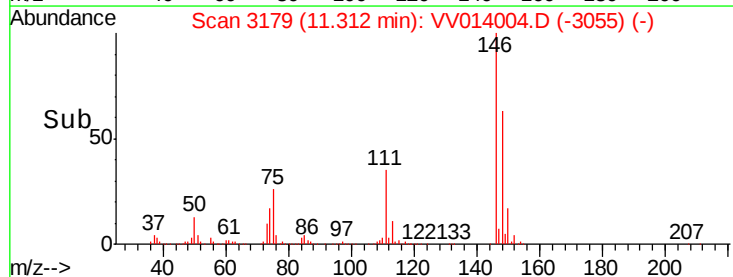
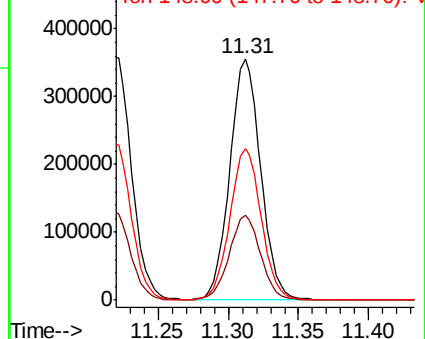
146 100

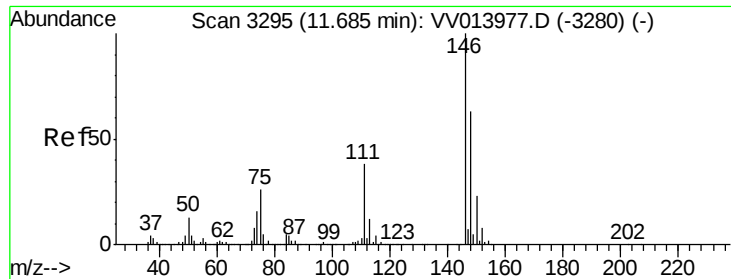
111 35.1 25.4 47.2

148 62.9 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

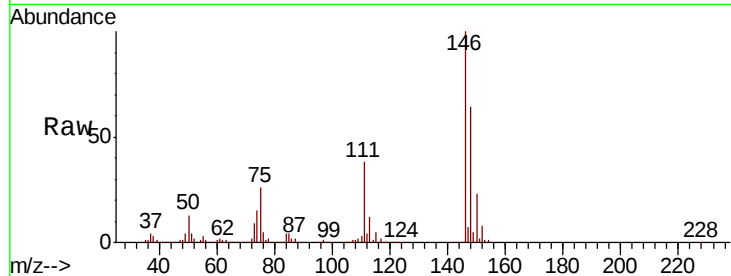




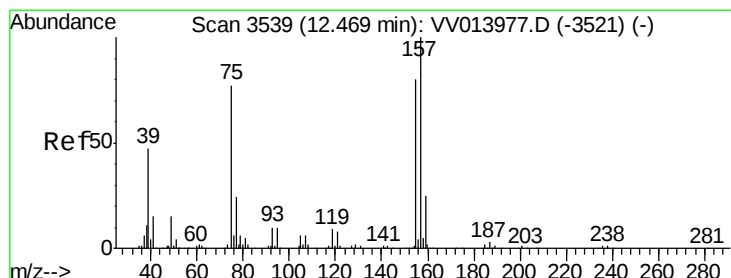
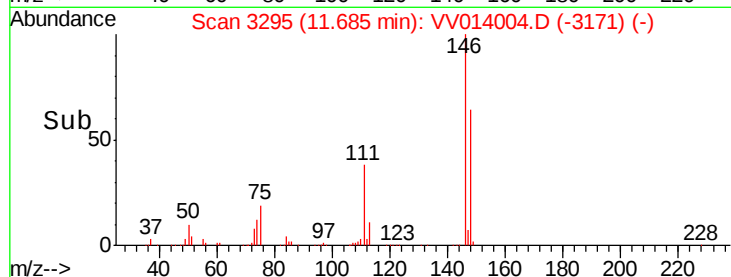
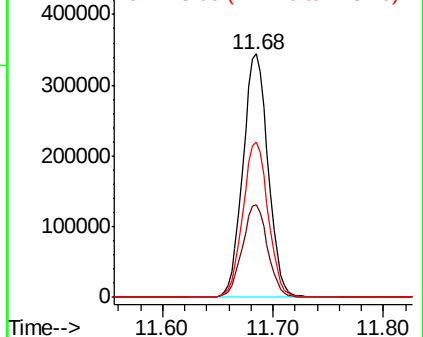
#65
 1,2-Dichlorobenzene
 Concen: 48.733 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014004.D
 Acq: 11 Dec 2019 09:59

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	31.4	47.0
148	63.8	51.5	77.3

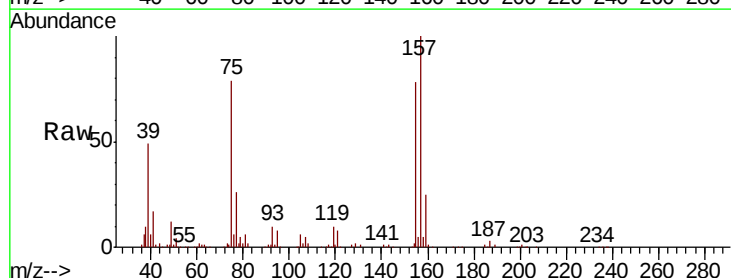


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

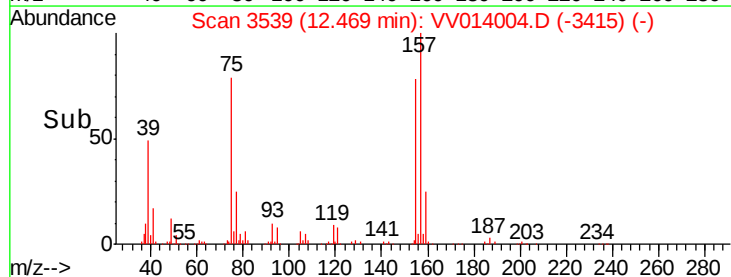
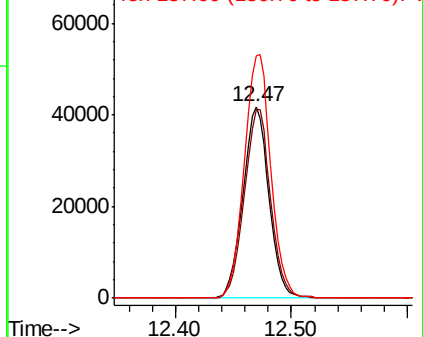


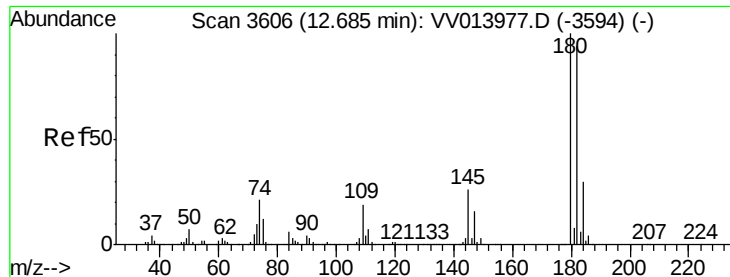
#66
 1,2-Dibromo-3-chloropropane
 Concen: 42.158 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. 0.00 min
 Lab File: VV014004.D
 Acq: 11 Dec 2019 09:59

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.3	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

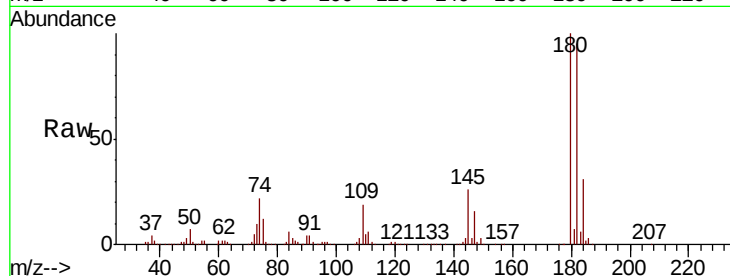




#67
 1,3,5-Trichlorobenzene
 Concen: 45.981 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014004.D
 Acq: 11 Dec 2019 09:59

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.2	114.4
184	30.9	24.2	36.4
145	26.4	21.1	31.7



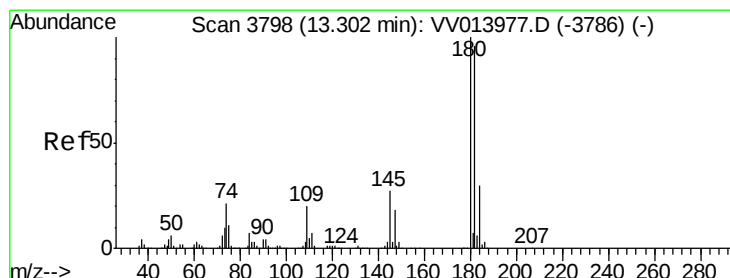
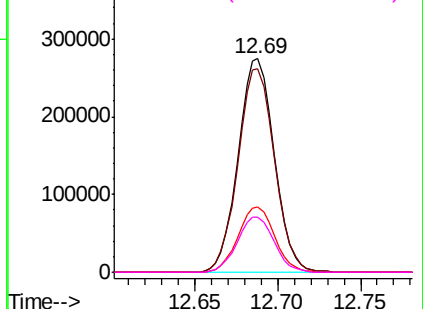
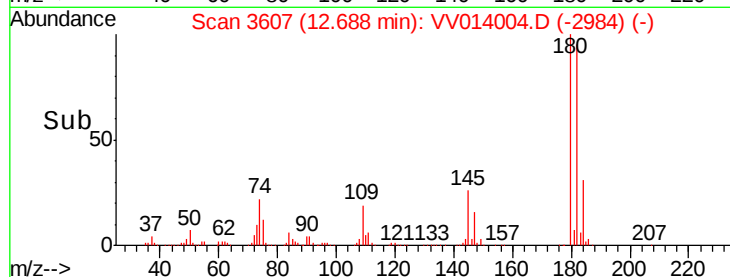
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

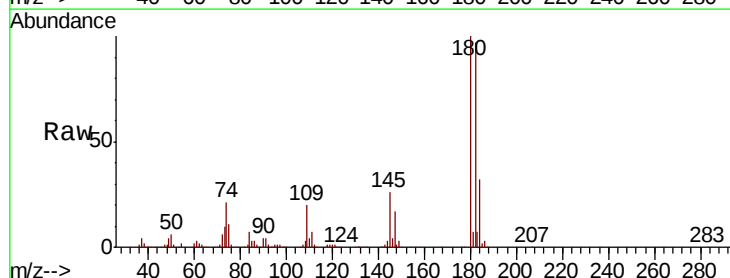
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 39.467 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014004.D
 Acq: 11 Dec 2019 09:59

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.1	76.2	114.4
145	27.2	21.9	32.9

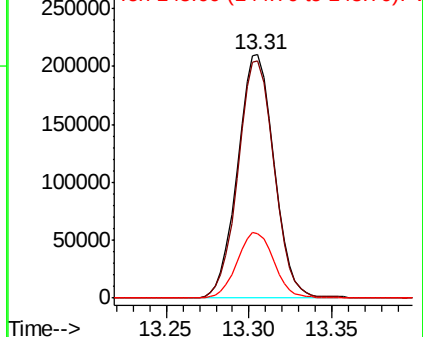
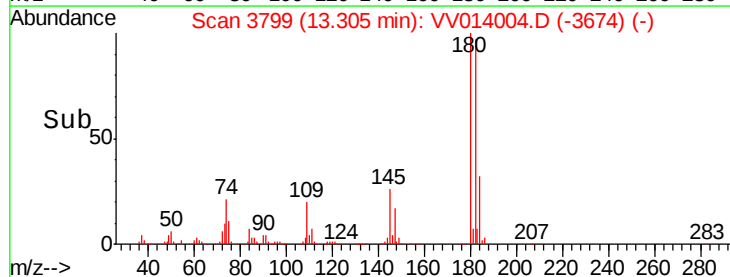


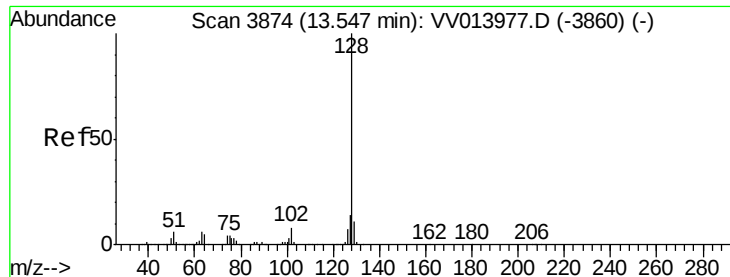
Abundance

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: 28.644 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

Instrument :

MSVOA_V

ClientSampleId :

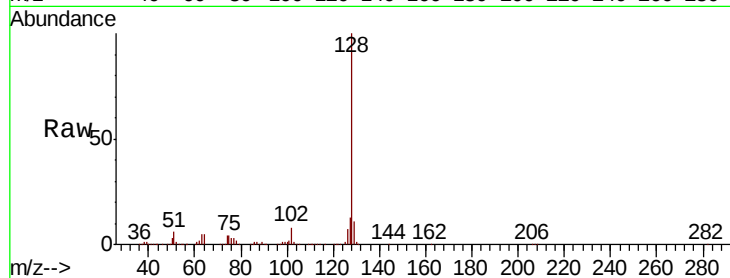
Tot Ion:128 Resp: 613951

Ion Ratio Lower Upper

128 100

127 13.0 10.5 15.7

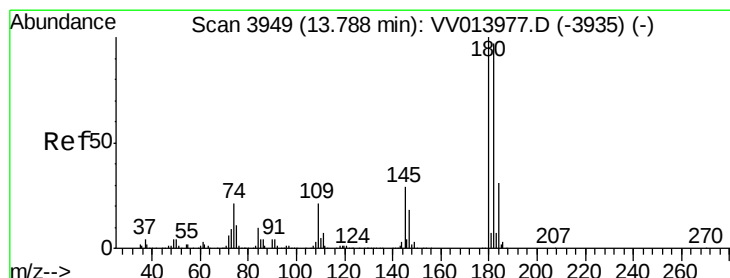
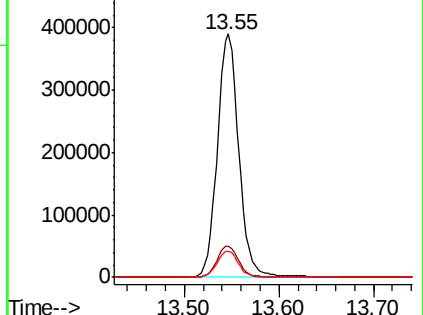
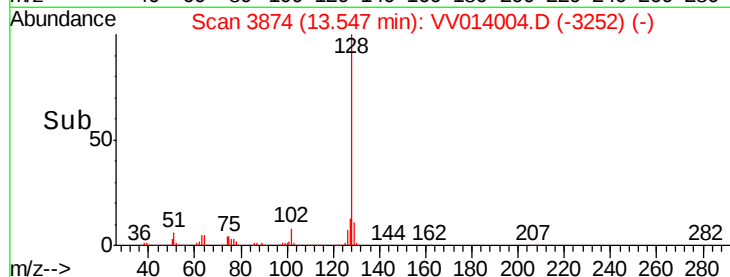
129 10.9 8.6 12.8



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: 39.790 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014004.D

Acq: 11 Dec 2019 09:59

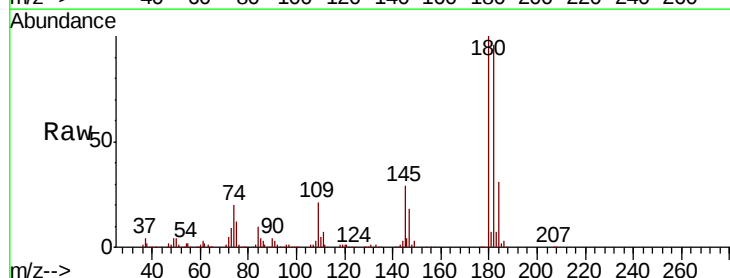
Tgt Ion:180 Resp: 339678

Ion Ratio Lower Upper

180 100

182 96.0 77.0 115.4

145 28.8 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

