

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV011420\
 Data File : VV014289.D
 Acq On : 14 Jan 2020 09:28
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 14 22:17:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR010220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jan 14 15:11:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	1057580	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	970303	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	448134	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	301450	4.08	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.60%
7) Chloroethane-d5	1.58	69	242910	4.25	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.00%
11) 1,1-Dichloroethene-d2	2.13	63	469450	4.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.00%
20) 2-Butanone-d5	3.96	46	808095	45.46	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.92%
24) Chloroform-d	4.40	84	669657	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
26) 1,2-Dichloroethane-d4	5.08	65	322725	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
32) Benzene-d6	5.09	84	1389556	4.80	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.00%
36) 1,2-Dichloropropane-d6	6.11	67	426683	4.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.00%
41) Toluene-d8	7.35	98	1258589	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.20%
43) trans-1,3-Dichloropropene-	7.66	79	178913	4.51	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.20%
46) 2-Hexanone-d5	8.13	63	729665	43.40	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	86.80%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	289648	4.61	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.20%
64) 1,2-Dichlorobenzene-d4	11.67	152	397242	4.72	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	338797	4.249 ug/L	99
3) Chloromethane	1.26	50	343018	4.328 ug/L	100
5) Vinyl chloride	1.32	62	322695	4.360 ug/L	100
6) Bromomethane	1.54	94	184566	4.395 ug/L	97
8) Chloroethane	1.60	64	178196	4.285 ug/L	99
9) Trichlorofluoromethane	1.77	101	416582	4.768 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	228037	4.818 ug/L	96
12) 1,1-Dichloroethene	2.14	96	210566	4.456 ug/L	92
13) Acetone	2.23	43	139679	11.411 ug/L	89
14) Carbon disulfide	2.32	76	932781	4.449 ug/L	100
15) Methyl Acetate	2.48	43	126140	4.427 ug/L	95
16) Methylene chloride	2.53	84	335446	4.361 ug/L	93
17) Methyl tert-butyl Ether	2.81	73	772979	4.420 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	330297	4.650 ug/L	94
19) 1,1-Dichloroethane	3.23	63	632481	4.543 ug/L	98
21) 2-Butanone	4.04	43	835537	45.504 ug/L	96
22) cis-1,2-Dichloroethene	3.96	96	366318	4.705 ug/L #	96

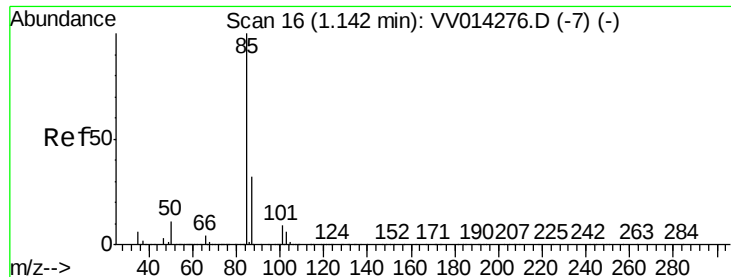
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV011420\
 Data File : VV014289.D
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 Operator : SY/MD
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR010220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jan 14 15:11:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	136253	4.603	ug/L	91
25) Chloroform	4.42	83	617182	4.631	ug/L	100
27) 1,2-Dichloroethane	5.18	62	355395	4.457	ug/L	95
29) 1,1,1-Trichloroethane	4.65	97	540588	4.680	ug/L	99
30) Cyclohexane	4.72	56	631636	4.953	ug/L	97
31) Carbon tetrachloride	4.87	117	463575	4.687	ug/L	100
33) Benzene	5.14	78	1394742	4.667	ug/L	100
34) Trichloroethene	5.96	95	351618	4.579	ug/L	98
35) Methylcyclohexane	6.17	83	627815	5.000	ug/L	97
37) 1,2-Dichloropropane	6.22	63	347775	4.611	ug/L	99
38) Bromodichloromethane	6.55	83	436246	4.485	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	549778	4.502	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	2071389	43.566	ug/L	99
42) Toluene	7.43	91	1466588	4.649	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	428835	4.573	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	214534	4.453	ug/L	98
47) Tetrachloroethene	8.01	164	252286	4.809	ug/L	97
48) 2-Hexanone	8.18	43	1454574	44.230	ug/L	99
49) Dibromochloromethane	8.29	129	266236	4.371	ug/L	98
50) 1,2-Dibromoethane	8.39	107	207415	4.445	ug/L	99
51) Chlorobenzene	8.92	112	904931	4.665	ug/L	98
52) Ethylbenzene	9.05	91	1688386	4.785	ug/L	99
53) m,p-xylene	9.18	106	624057	4.794	ug/L	99
54) o-xylene	9.58	106	602017	4.703	ug/L	95
55) Styrene	9.60	104	1012156	4.667	ug/L	97
56) Isopropylbenzene	9.97	105	1623633	4.862	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	271152	4.564	ug/L	96
59) 1,2,3-Trichloropropane	10.31	75	198936	4.426	ug/L	99
61) Bromoform	9.77	173	136575	4.496	ug/L	98
62) 1,3-Dichlorobenzene	11.22	146	670975	4.789	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	674390	4.841	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	607135	4.798	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	50380	4.332	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	487503	4.785	ug/L	99
68) 1,2,4-trichlorobenzene	13.30	180	427625	4.785	ug/L	99
69) Naphthalene	13.54	128	785961	4.329	ug/L	100
70) 1,2,3-Trichlorobenzene	13.79	180	364322	4.633	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.249 ug/L

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

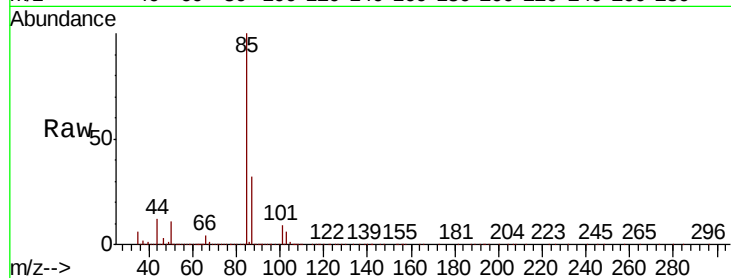
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 85 Resp: 338797

Ion Ratio Lower Upper

85 100

87 32.2 25.1 37.7



Abundance Ion 85.00 (84.70 to 85.70): VV014276.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VV014289.D (-1) (-)

1.14

400000

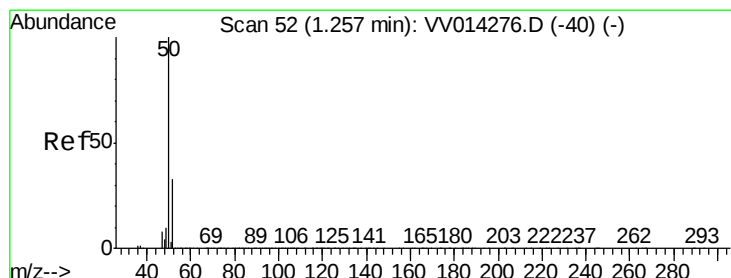
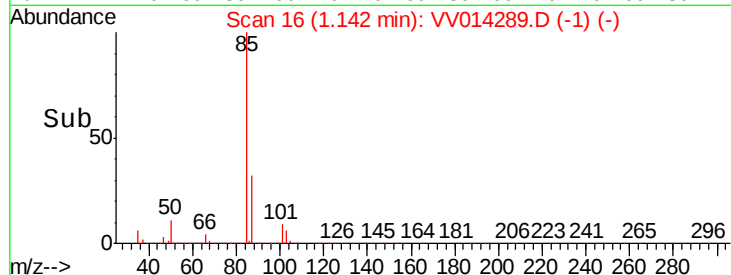
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 4.328 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014289.D

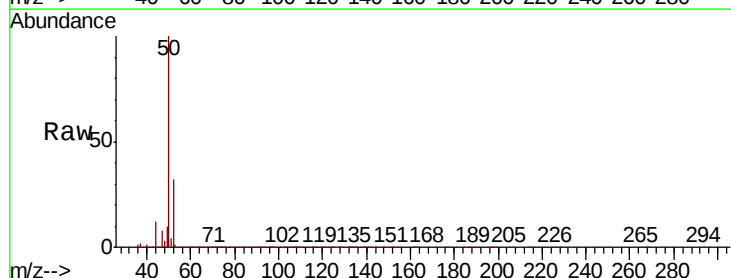
Acq: 14 Jan 2020 09:28

Tgt Ion: 50 Resp: 343018

Ion Ratio Lower Upper

50 100

52 32.1 22.3 41.3



Abundance Ion 50.05 (49.75 to 50.75): VV014276.D (-40) (-)

Ion 52.05 (51.75 to 52.75): VV014289.D (-1) (-)

1.26

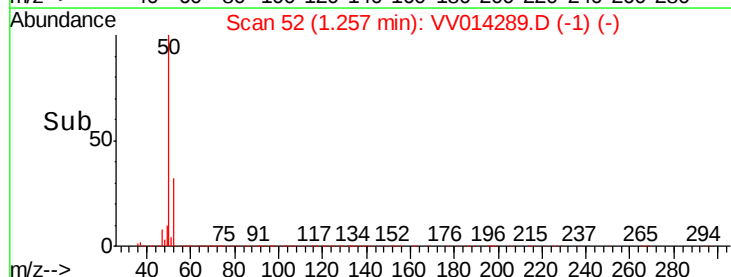
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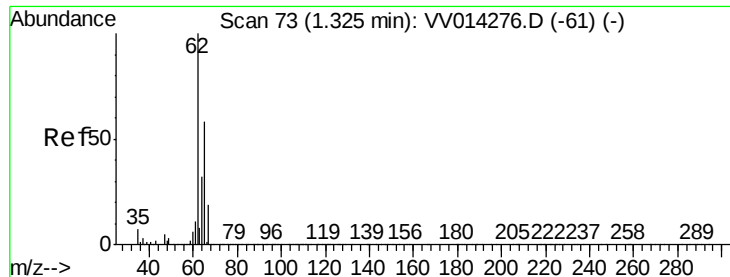
200000

100000

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Time-->





#5

Vinyl chloride

Concen: 4.360 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

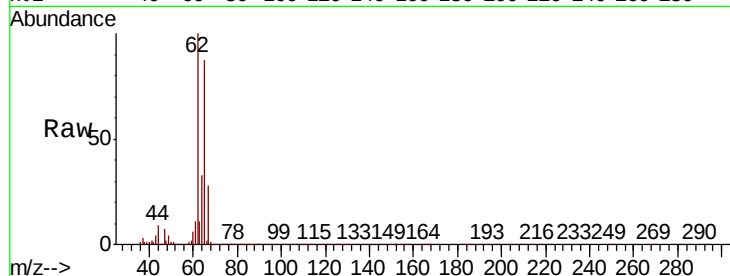
Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 322695

Ion	Ratio	Lower	Upper
62	100		
64	32.9	23.0	42.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

300000

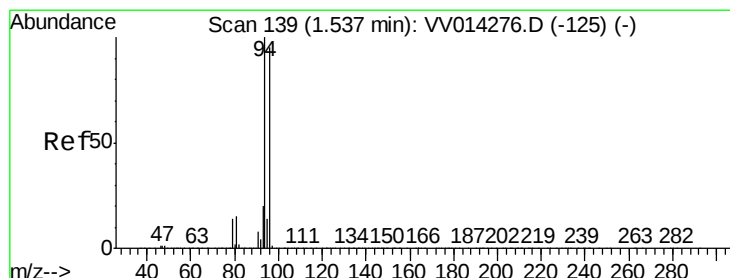
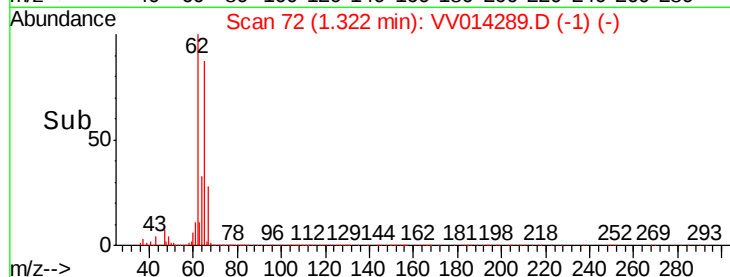
200000

100000

0

Time-->

1.25 1.30 1.35 1.40



#6

Bromomethane

Concen: 4.395 ug/L

RT: 1.54 min Scan# 139

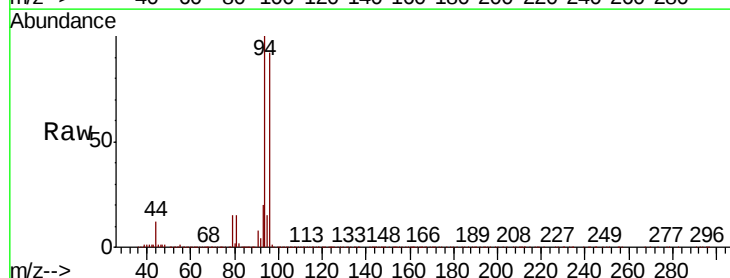
Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

Tgt Ion: 94 Resp: 184566

Ion	Ratio	Lower	Upper
94	100		
96	92.2	66.9	124.3



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.54

150000

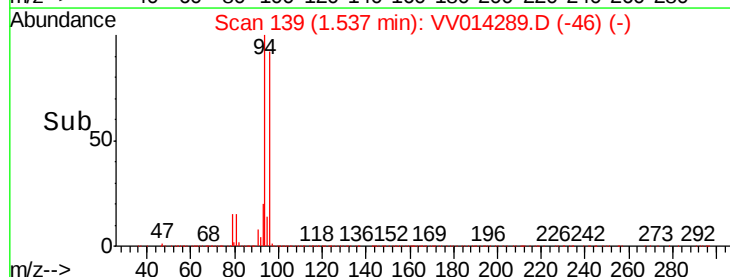
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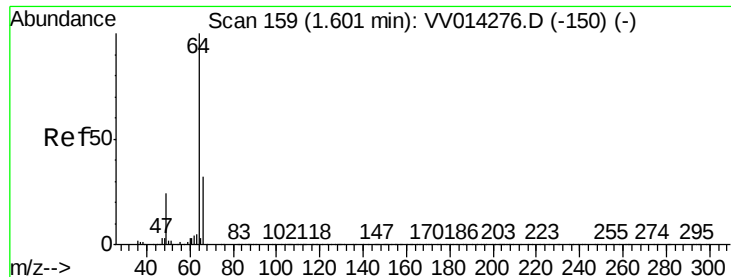
50000

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Time-->

1.50 1.55 1.60

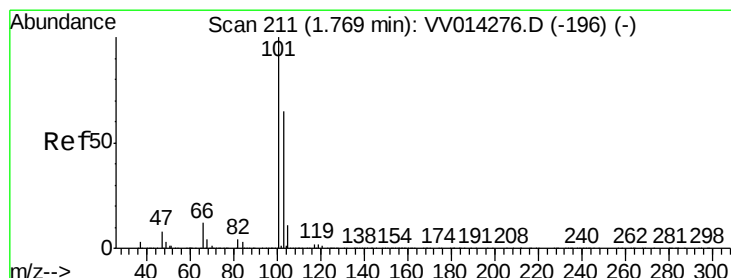
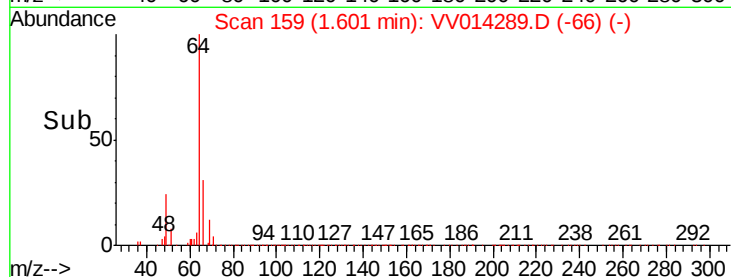
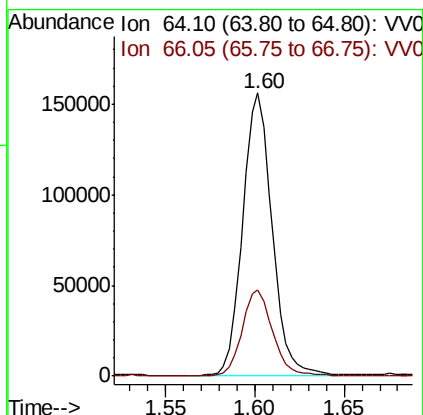
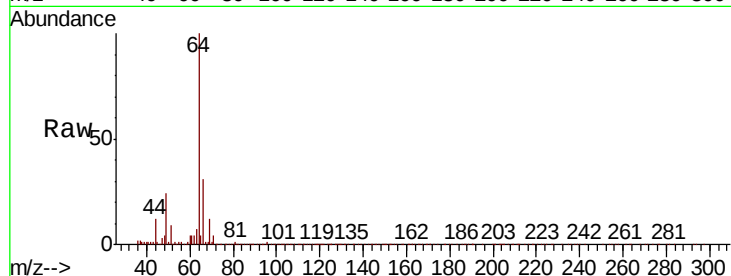




#8
Chloroethane
Concen: 4.285 ug/L
RT: 1.60 min Scan# 159
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

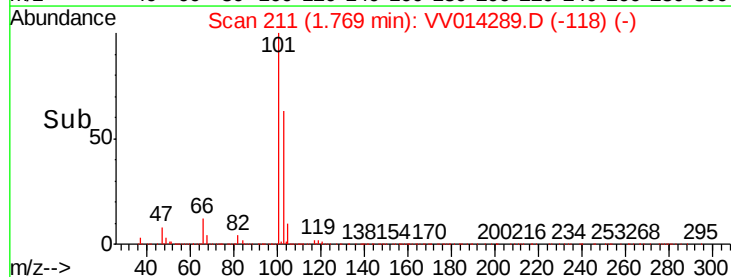
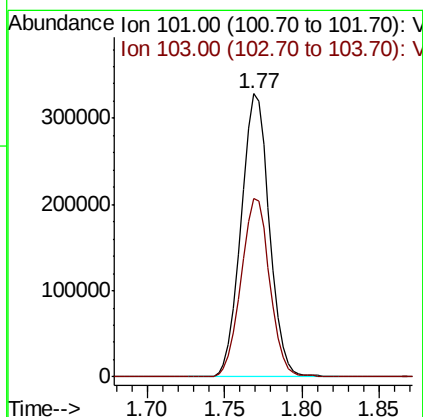
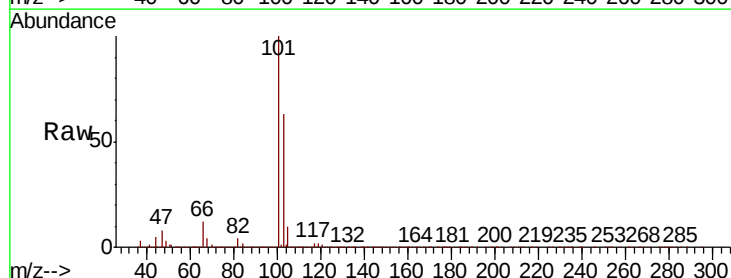
Instrument :
MSVOA_V
ClientSampleId :

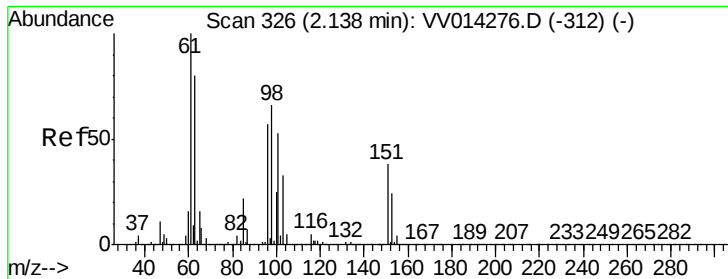
Tot Ion: 64 Resp: 178196
Ion Ratio Lower Upper
64 100
66 30.7 21.8 40.6



#9
Trichlorofluoromethane
Concen: 4.768 ug/L
RT: 1.77 min Scan# 211
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

Tgt Ion: 101 Resp: 416582
Ion Ratio Lower Upper
101 100
103 63.8 52.6 78.8





#10

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

Concen: 4.818 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

Instrument :

MSVOA_V

ClientSampleId :

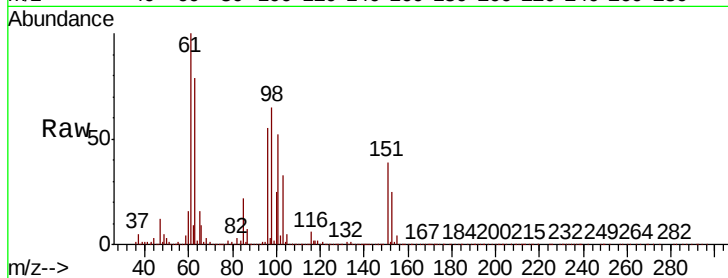
Tot Ion:101 Resp: 228037

Ion Ratio Lower Upper

101 100

85 42.1 34.9 52.3

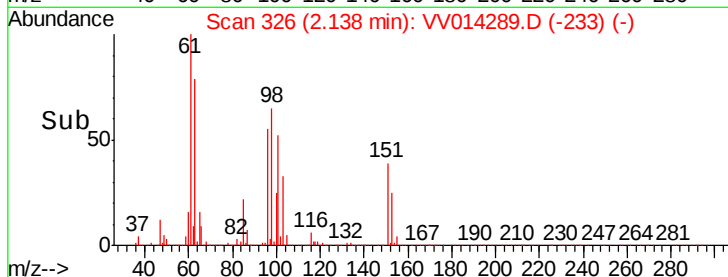
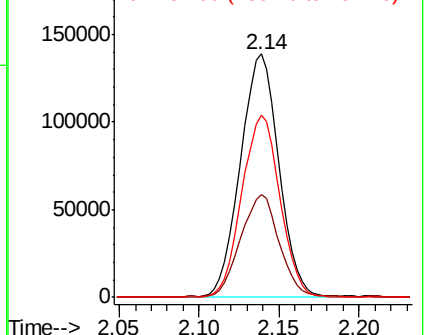
151 74.1 62.5 93.7



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: 4.456 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

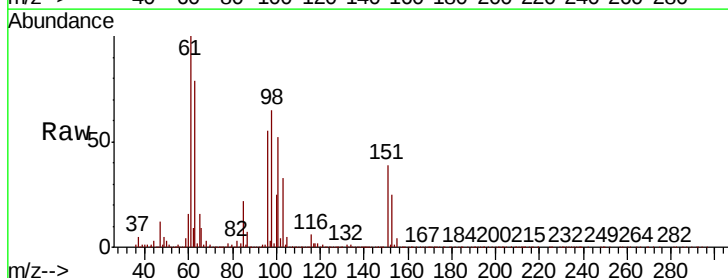
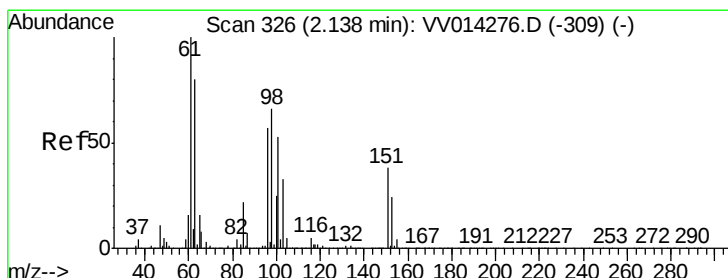
Tgt Ion: 96 Resp: 210566

Ion Ratio Lower Upper

96 100

61 180.3 121.5 225.7

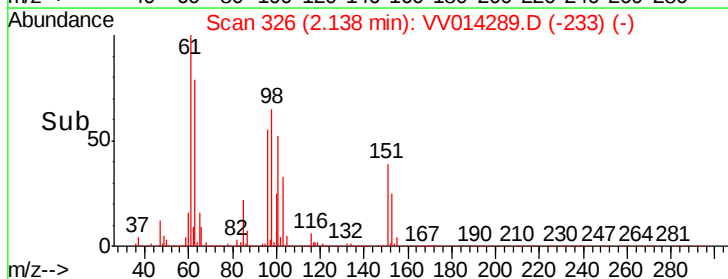
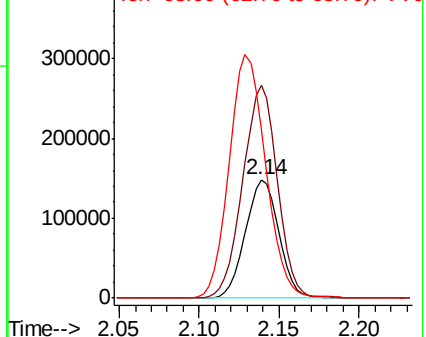
63 142.1 90.3 167.7

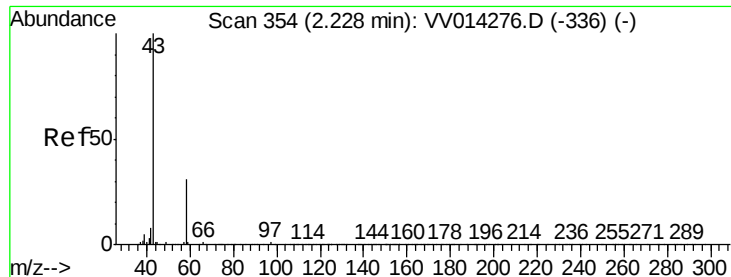


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 11.411 ug/L

RT: 2.23 min Scan# 356

Delta R.T. 0.01 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

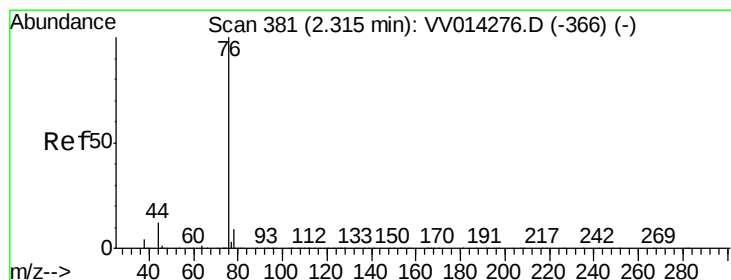
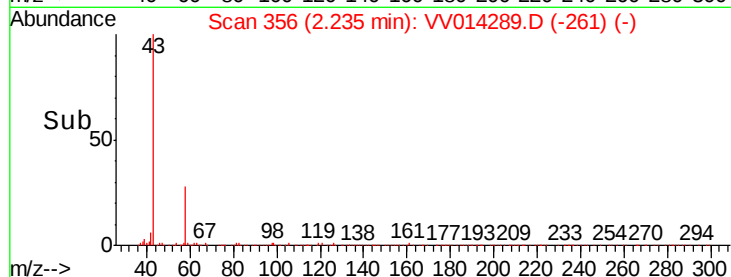
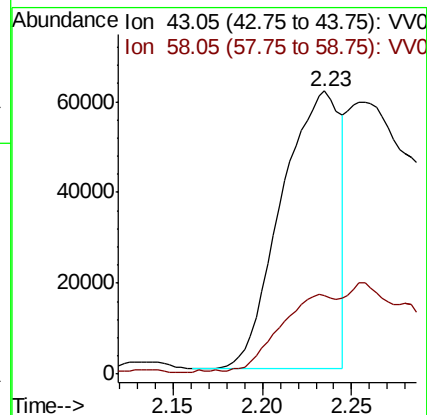
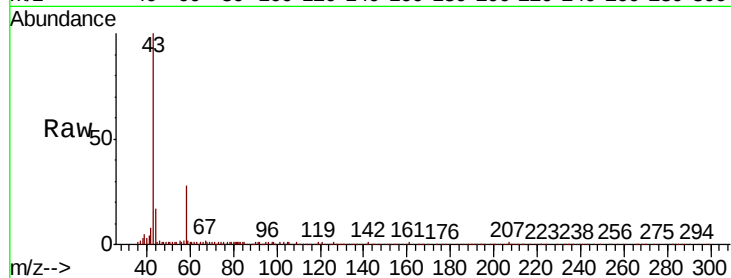
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 139679

Ion Ratio Lower Upper

43 100

58 26.9 0.0 66.0



#14

Carbon disulfide

Concen: 4.449 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV014289.D

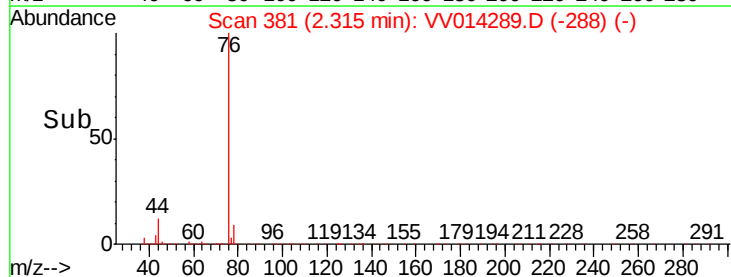
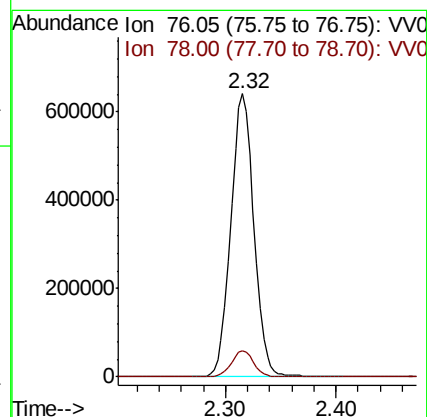
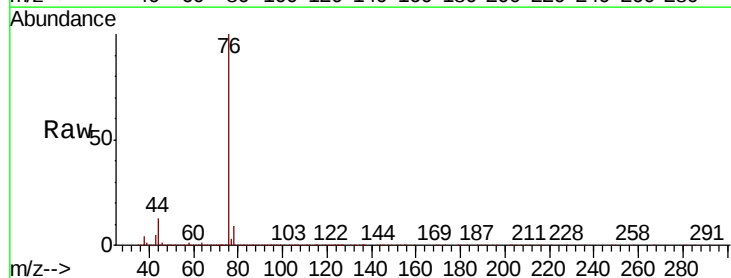
Acq: 14 Jan 2020 09:28

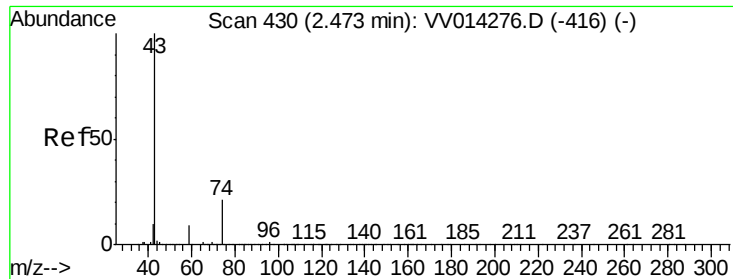
Tgt Ion: 76 Resp: 932781

Ion Ratio Lower Upper

76 100

78 9.3 7.5 11.3

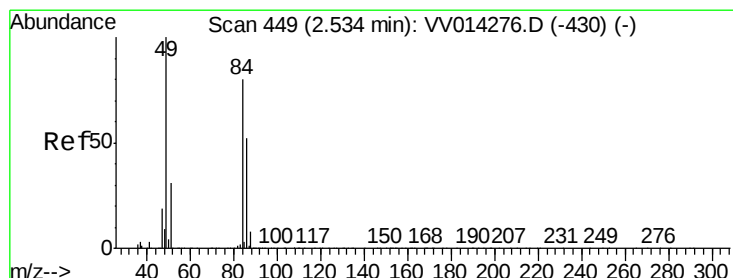
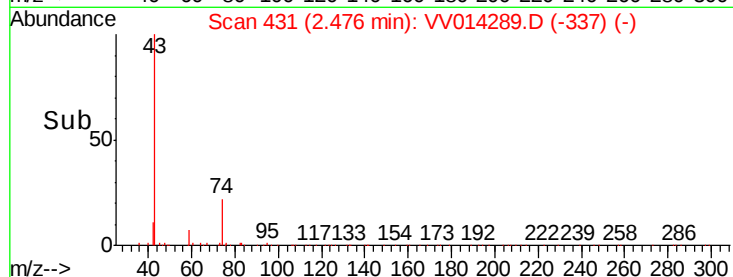
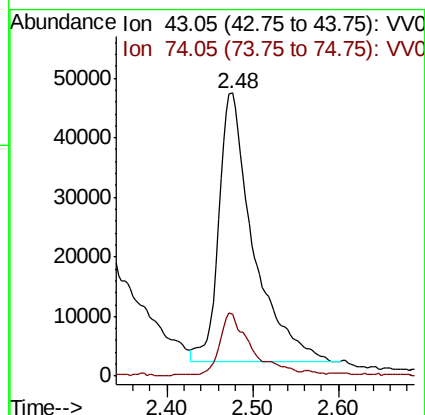
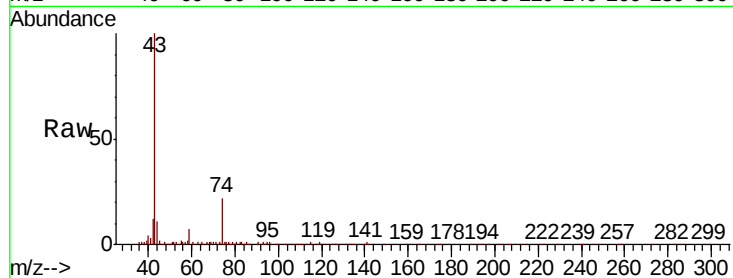




#15
Methyl Acetate
Concen: 4.427 ug/L
RT: 2.48 min Scan# 431
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

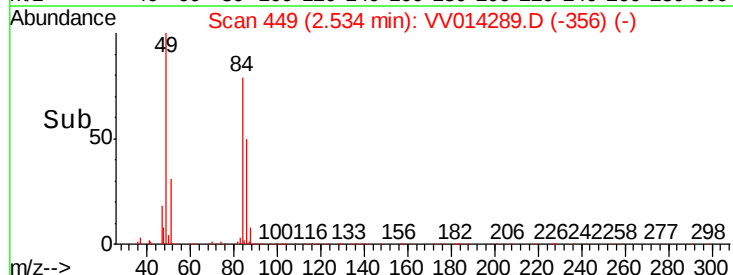
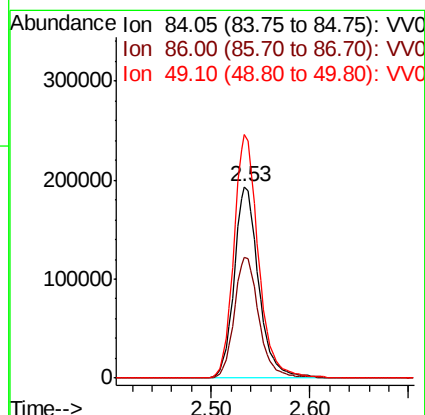
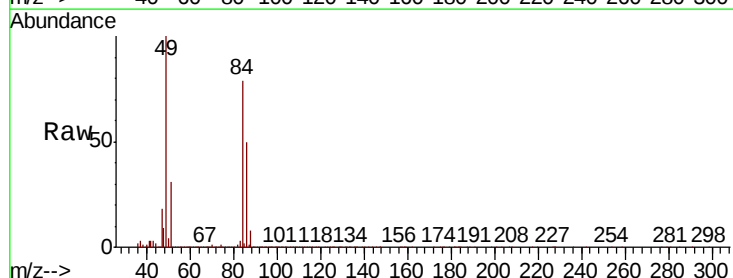
Instrument :
MSVOA_V
ClientSampled :

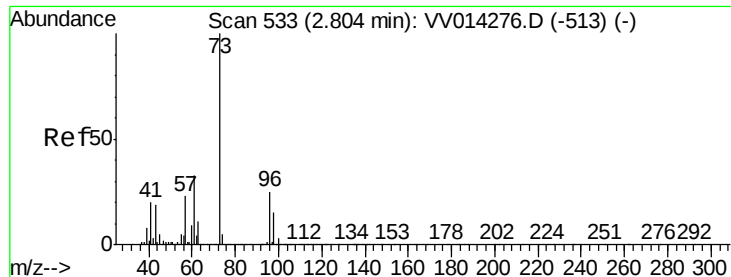
Tot Ion: 43 Resp: 126140
Ion Ratio Lower Upper
43 100
74 20.7 18.6 28.0



#16
Methylene chloride
Concen: 4.361 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

Tgt Ion: 84 Resp: 335446
Ion Ratio Lower Upper
84 100
86 63.2 43.1 80.1
49 127.1 82.1 152.5



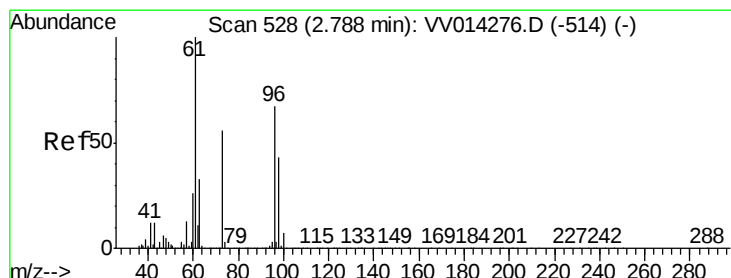
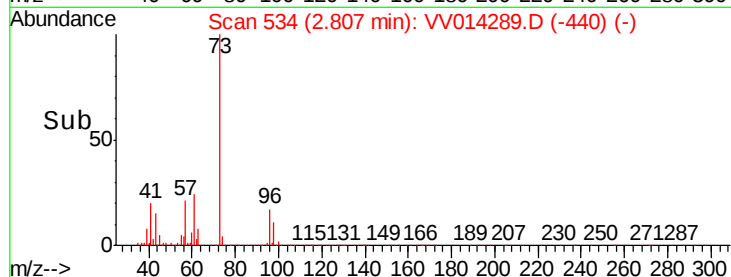
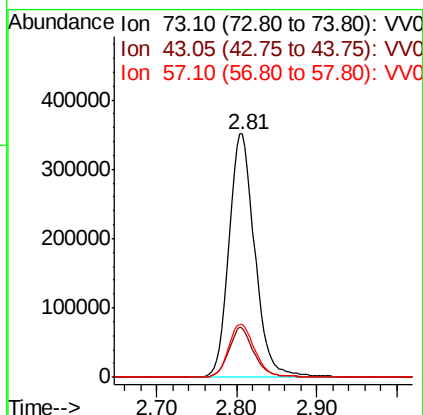
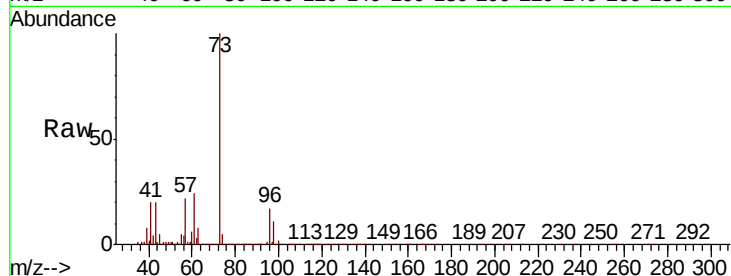


#17

Methvl tert-butvl Ether
Concen: 4.420 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

Instrument :
MSVOA_V
ClientSampleId :

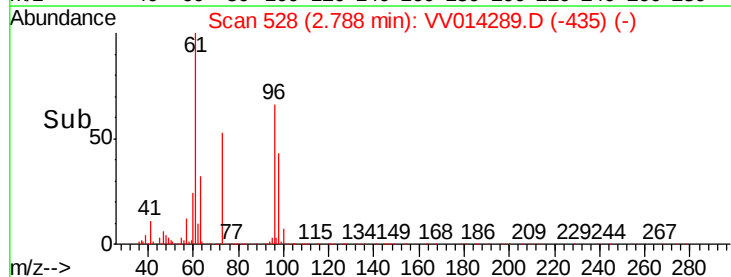
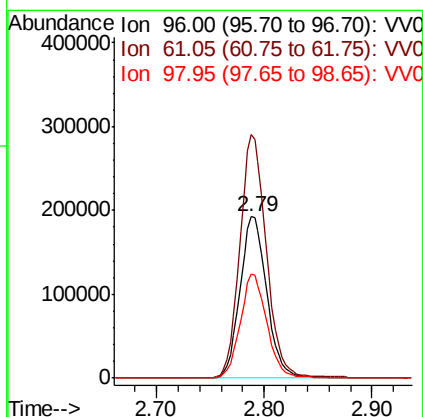
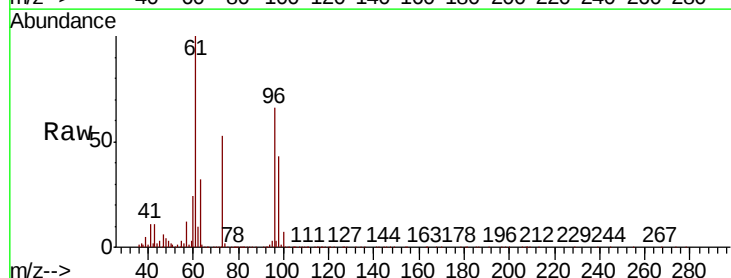
Tot Ion	Ratio	Lower	Upper
73	100		
43	19.5	14.7	22.1
57	22.2	17.9	26.9

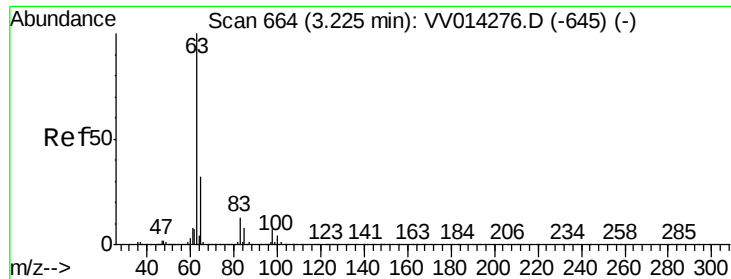


#18

trans-1,2-Dichloroethene
Concen: 4.650 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	150.7	99.2	184.2
98	64.4	43.1	80.1

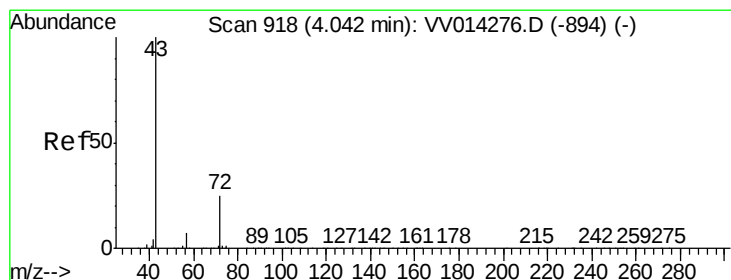
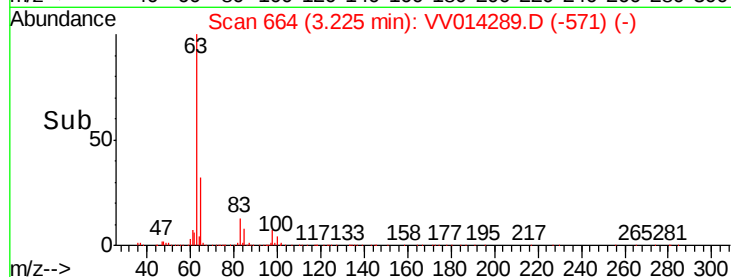
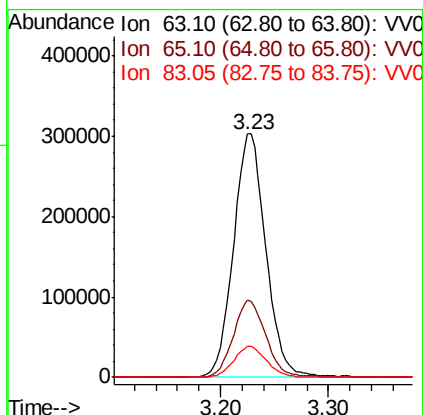
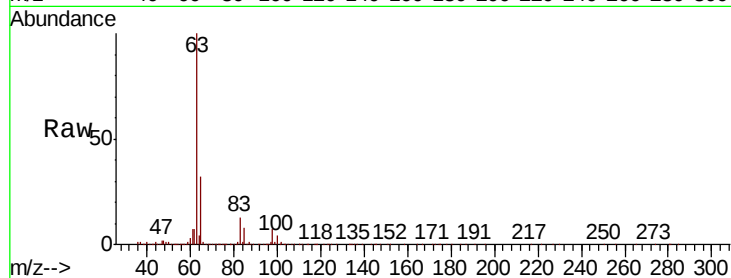




#19
 1,1-Dichloroethane
 Concen: 4.543 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

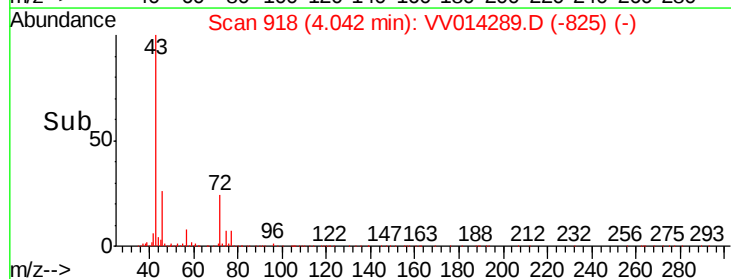
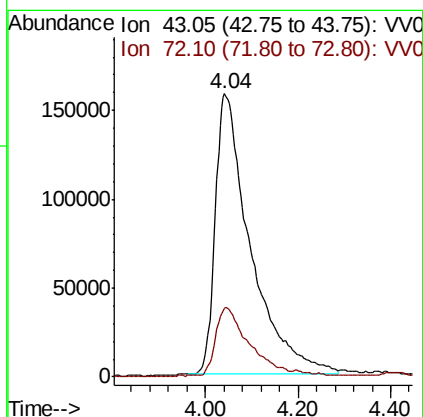
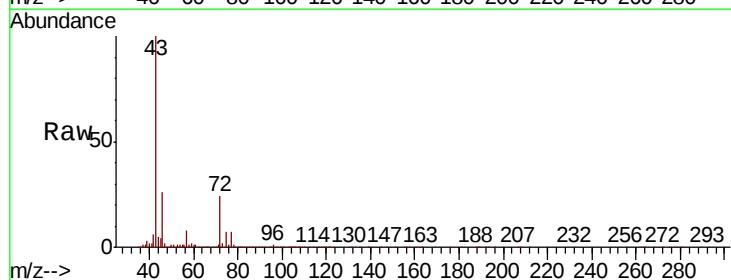
Instrument :
 MSVOA_V
 ClientSampleId :

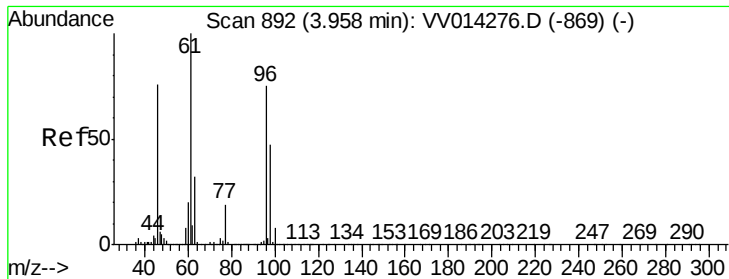
Tot Ion: 63 Resp: 632481
 Ion Ratio Lower Upper
 63 100
 65 31.6 22.7 42.3
 83 12.6 10.0 18.6



#21
 2-Butanone
 Concen: 45.504 ug/L
 RT: 4.04 min Scan# 918
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

Tgt Ion: 43 Resp: 835537
 Ion Ratio Lower Upper
 43 100
 72 22.9 12.4 37.2



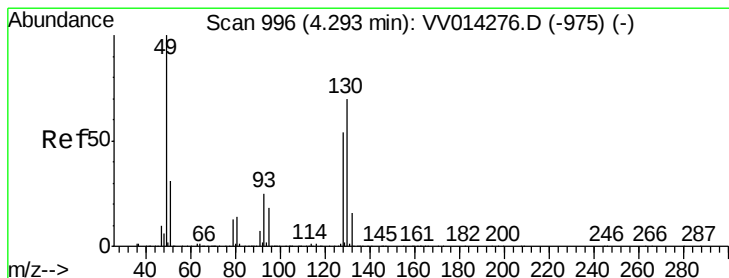
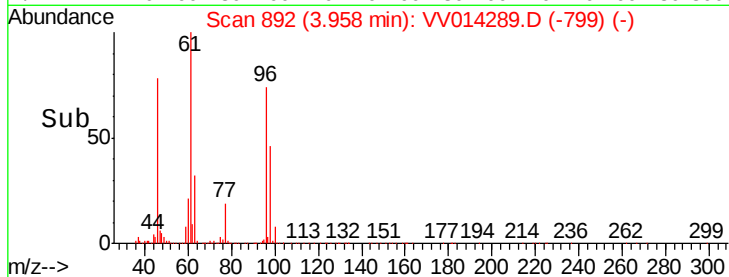
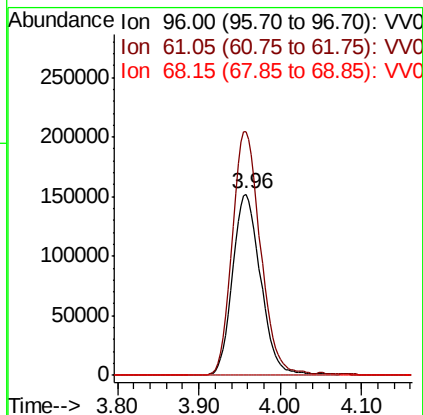
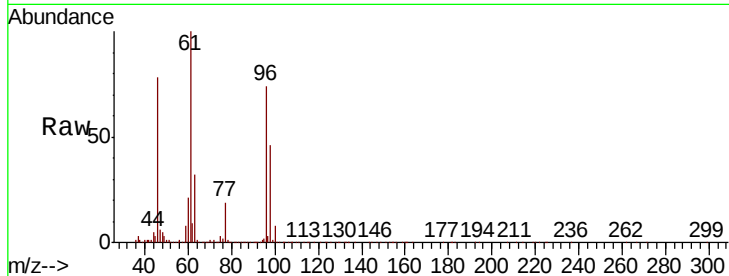


#22

cis-1,2-Dichloroethene
 Concen: 4.705 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

Instrument :
 MSVOA_V
 ClientSampled :

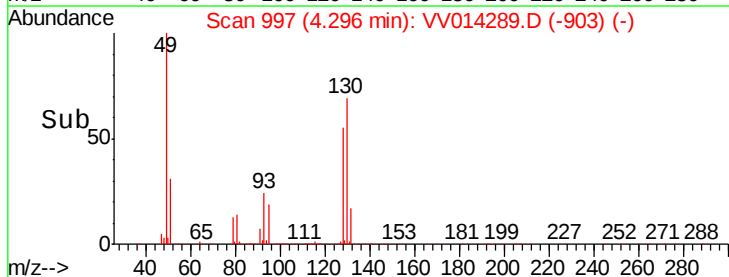
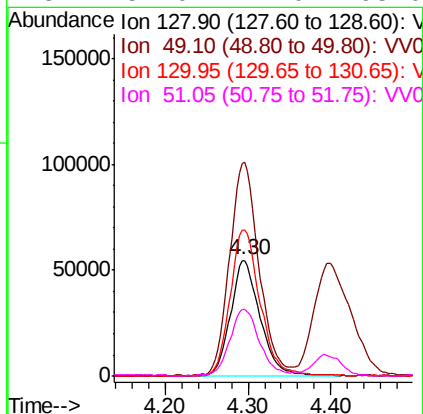
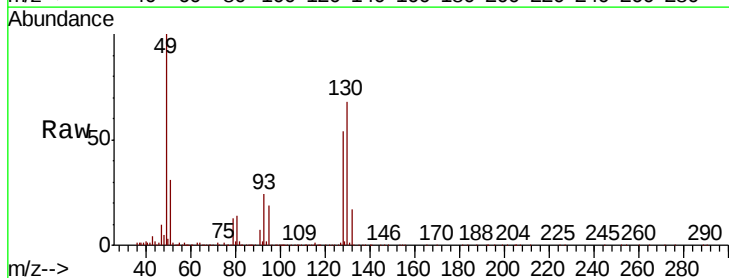
Tot Ion	Ratio	Lower	Upper
96	100		
61	134.6	90.6	168.3
68	0.2	0.3	0.7#

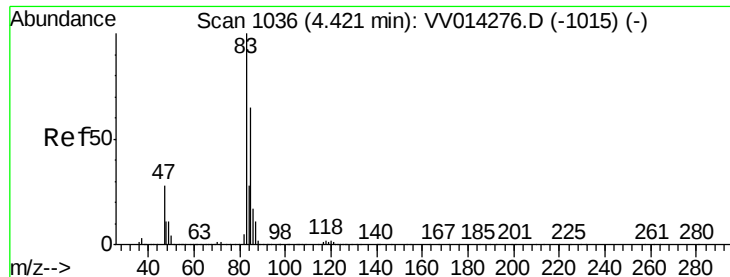


#23

Bromochloromethane
 Concen: 4.603 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

Tgt Ion	Ratio	Lower	Upper
128	100		
49	184.4	117.5	218.1
130	125.8	93.7	173.9
51	57.0	42.0	63.0

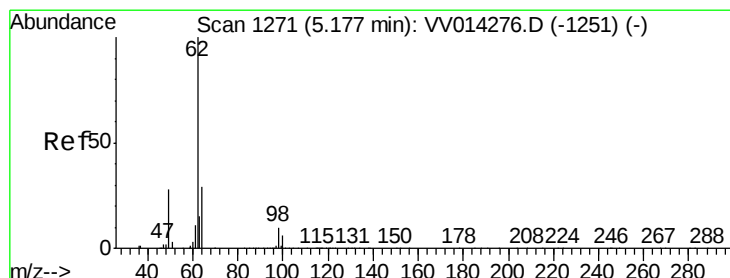
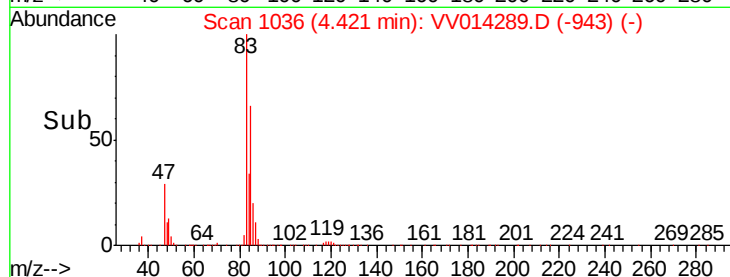
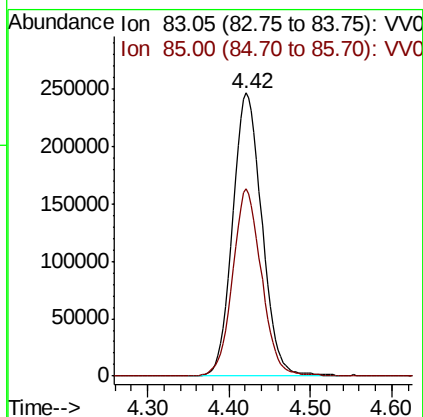
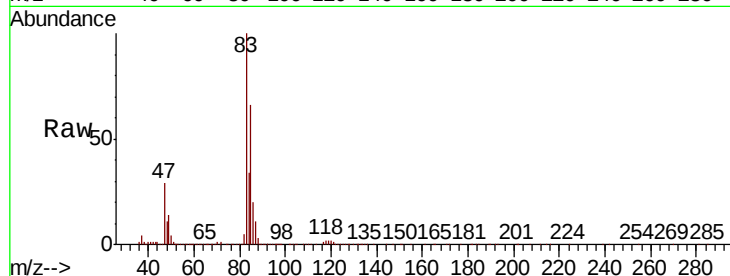




#25
Chloroform
Concen: 4.631 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

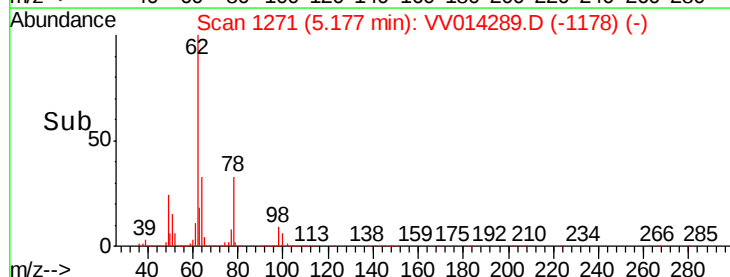
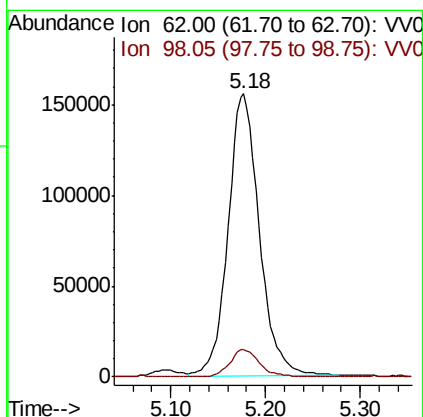
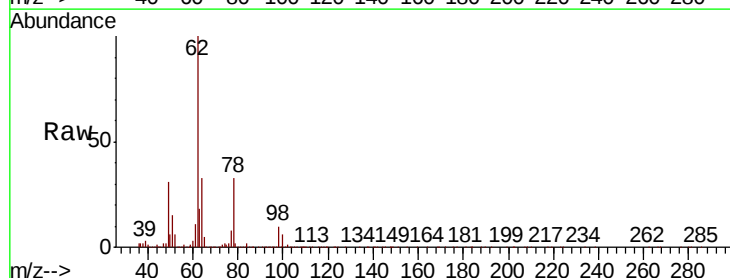
Instrument :
MSVOA_V
ClientSampleId :

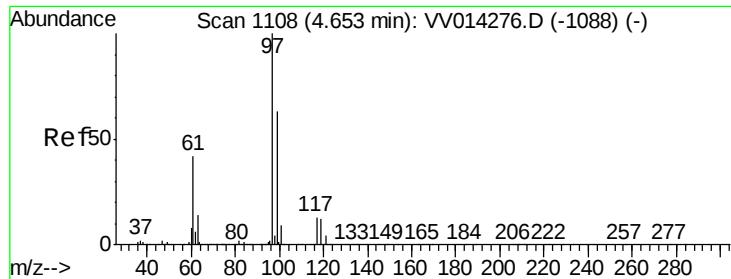
Tot Ion: 83 Resp: 617182
Ion Ratio Lower Upper
83 100
85 66.3 46.2 85.8



#27
1,2-Dichloroethane
Concen: 4.457 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

Tgt Ion: 62 Resp: 355395
Ion Ratio Lower Upper
62 100
98 9.6 9.2 13.8

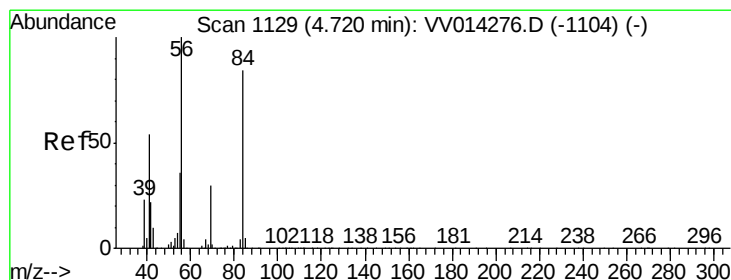
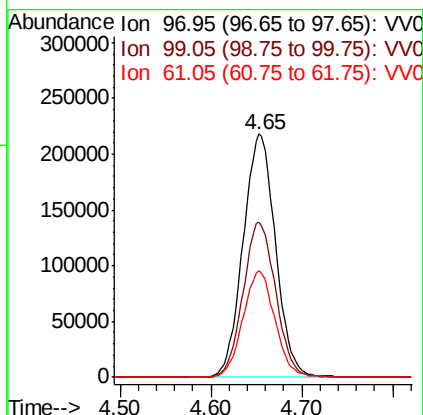
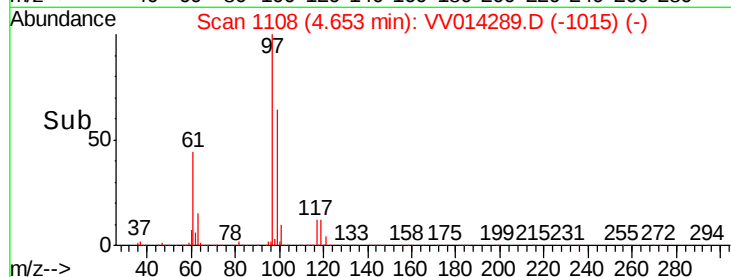
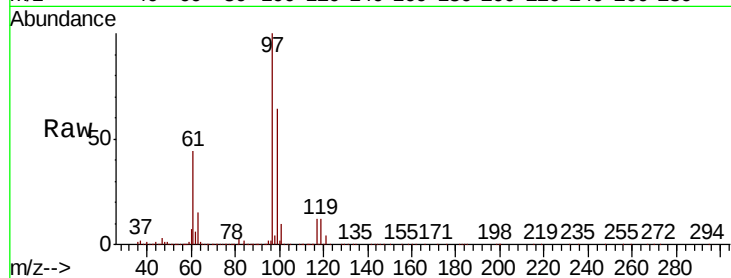




#29
 1,1,1-Trichloroethane
 Concen: 4.680 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

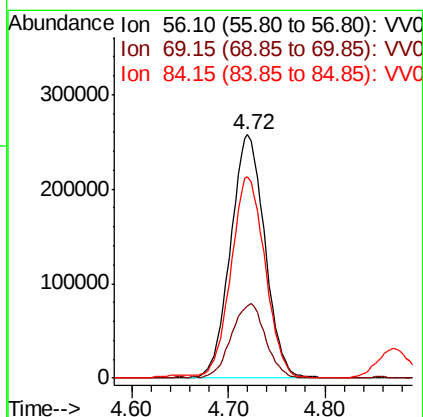
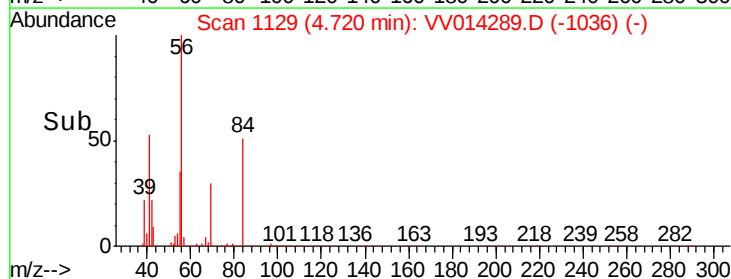
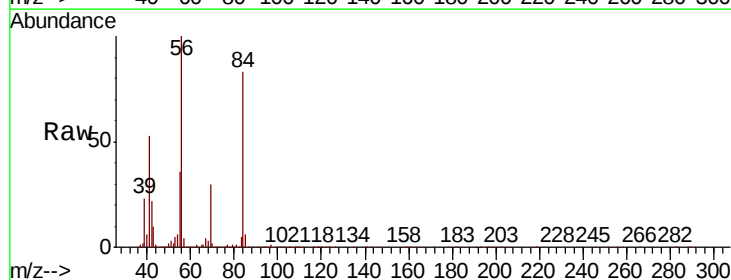
Instrument :
 MSVOA_V
 ClientSampled :

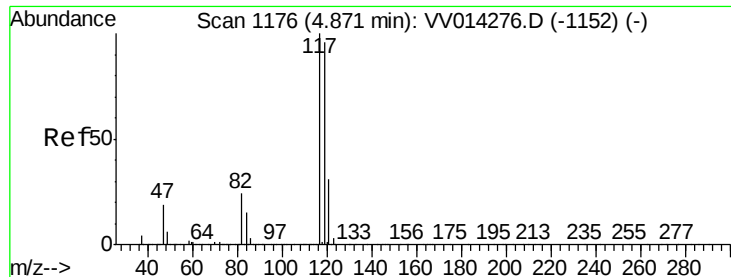
Tot Ion	97	Resp	540588
Ion Ratio	100		
Lower	51.1		
Upper	76.7		
61	43.0		
	33.9		
	50.9		



#30
 Cyclohexane
 Concen: 4.953 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

Tgt Ion	56	Resp	631636
Ion Ratio	100		
Lower	23.9		
Upper	35.9		
69	30.1		
84	82.5		
	68.9		
	103.3		





#31

Carbon tetrachloride

Concen: 4.687 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

Instrument :

MSVOA_V

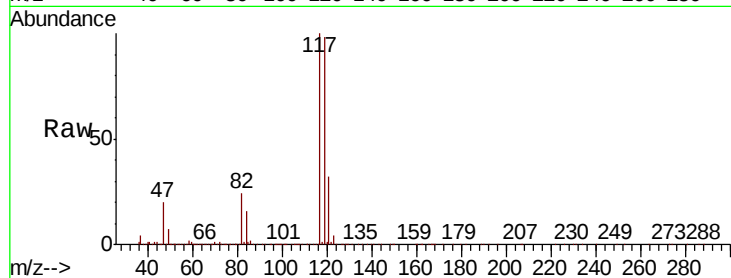
ClientSampleId :

Tot Ion:117 Resp: 463575

Ion Ratio Lower Upper

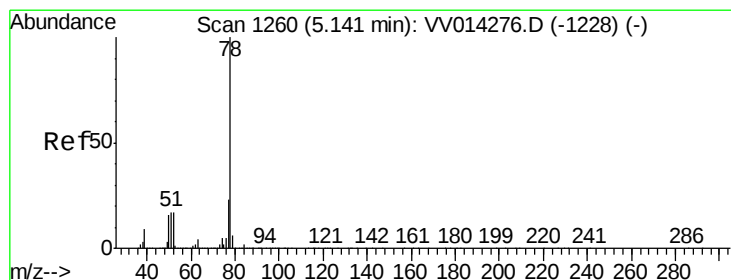
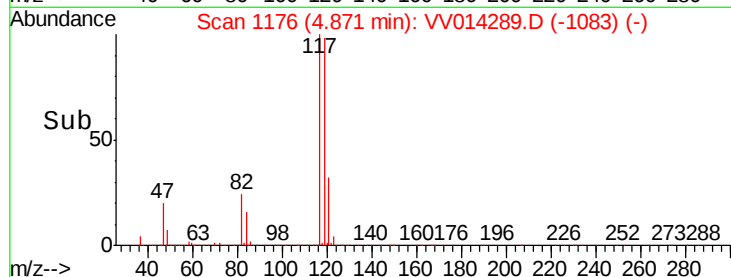
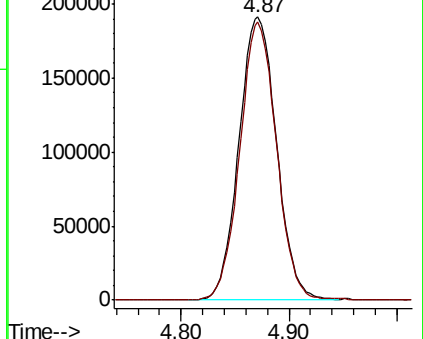
117 100

119 95.8 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.667 ug/L

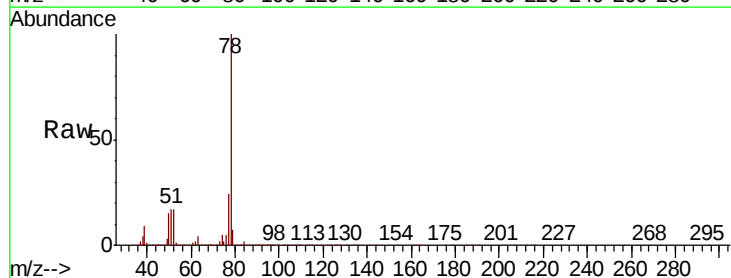
RT: 5.14 min Scan# 1260

Delta R.T. 0.00 min

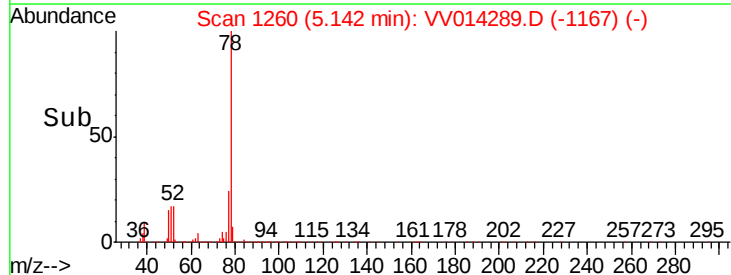
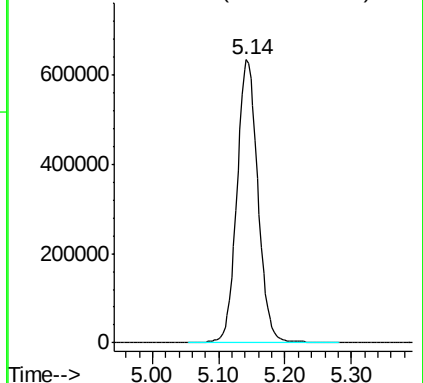
Lab File: VV014289.D

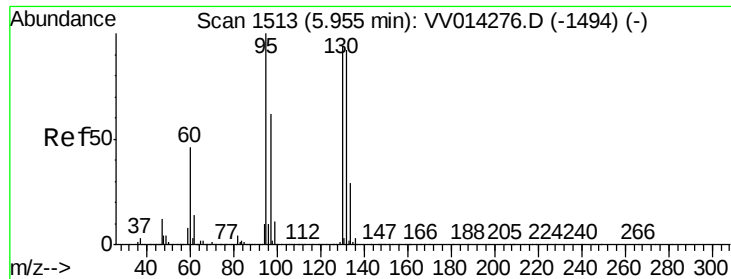
Acq: 14 Jan 2020 09:28

Tgt Ion: 78 Resp: 1394742



Abundance Ion 78.10 (77.80 to 78.80): VV0





#34

Trichloroethene

Concen: 4.579 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 351618

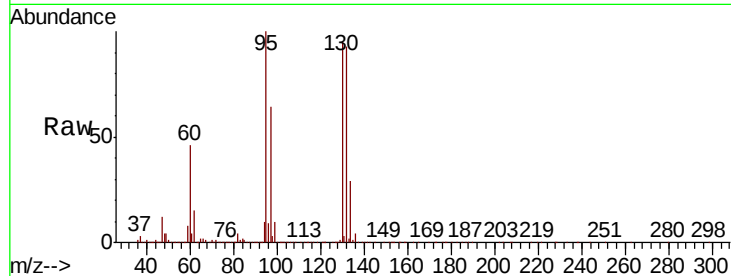
Ion Ratio Lower Upper

95 100

97 64.3 43.8 81.3

132 92.7 63.4 117.8

130 95.2 65.7 122.1

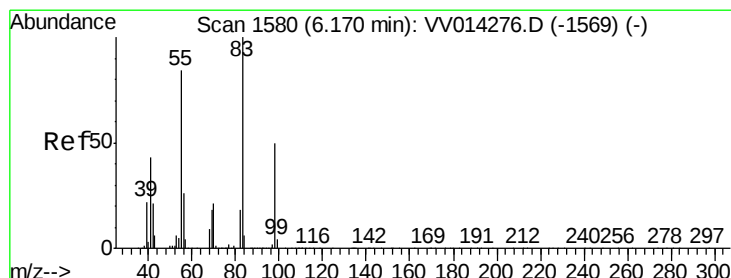
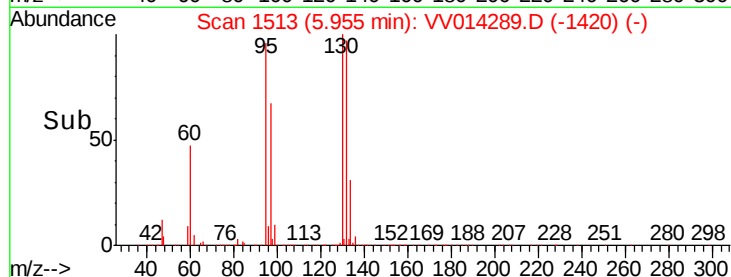
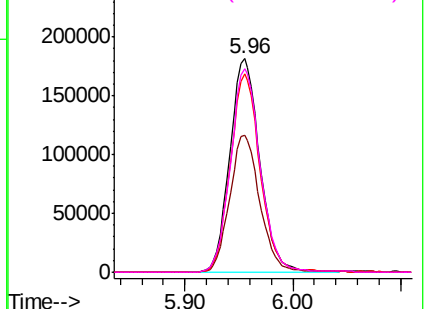


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#35

Methylcyclohexane

Concen: 5.000 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

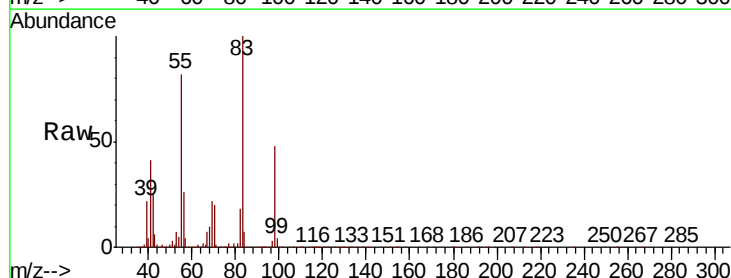
Tgt Ion: 83 Resp: 627815

Ion Ratio Lower Upper

83 100

55 80.7 61.7 92.5

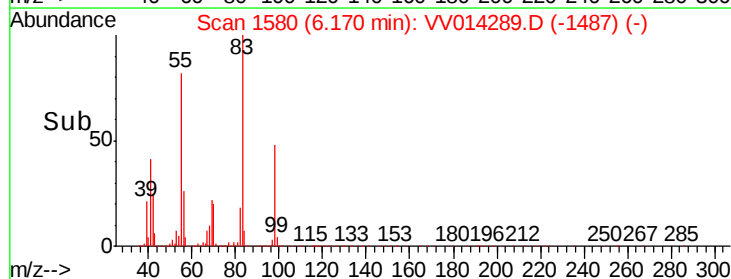
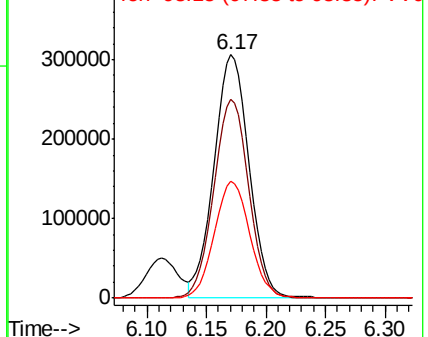
98 48.5 38.1 57.1

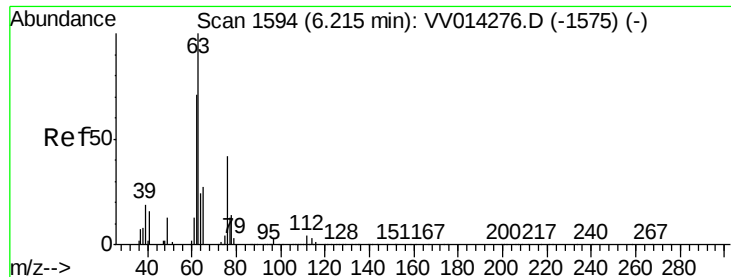


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

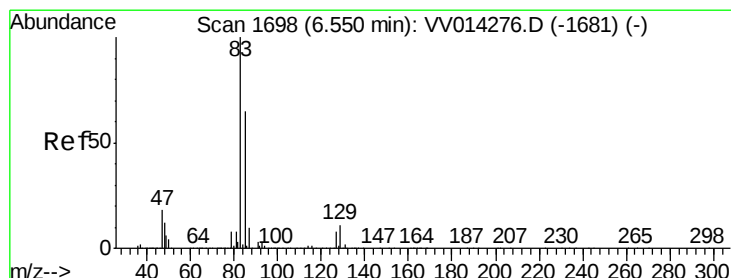
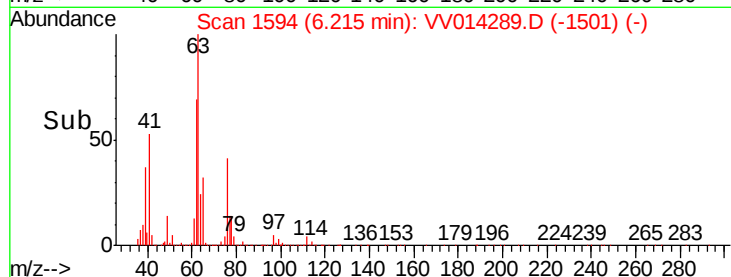
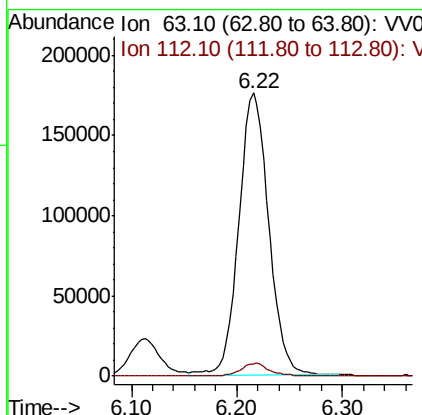
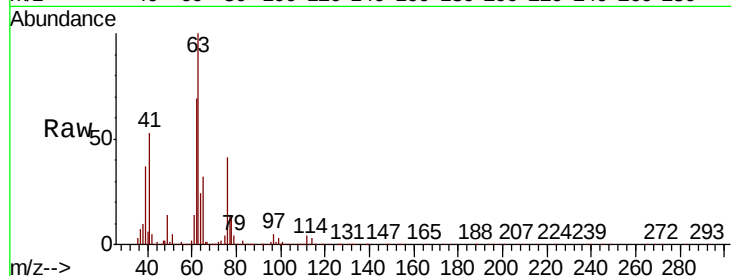




#37
 1,2-Dichloropropane
 Concen: 4.611 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

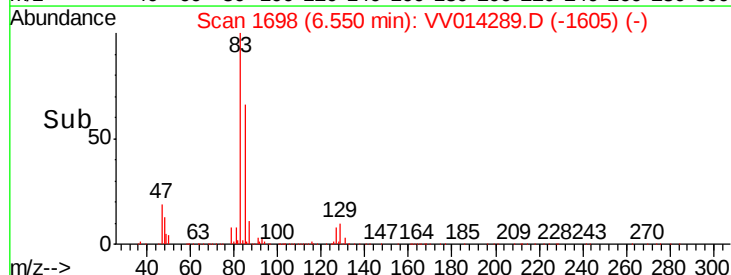
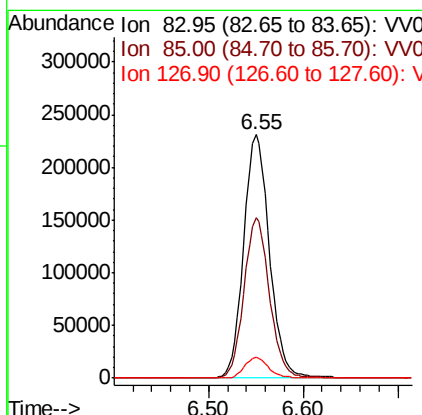
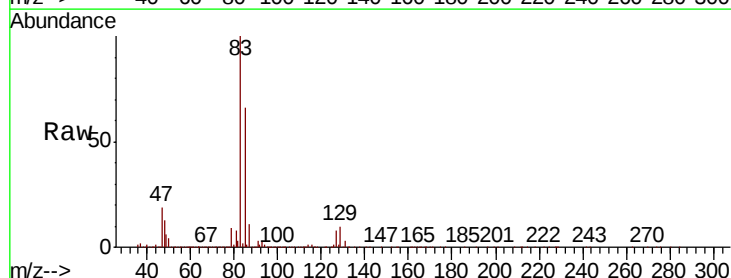
Instrument :
 MSVOA_V
 ClientSampleId :

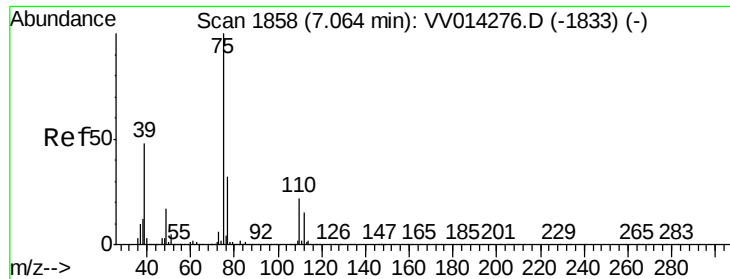
Tot Ion: 63 Resp: 347775
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.7 5.5



#38
 Bromodichloromethane
 Concen: 4.485 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

Tgt Ion: 83 Resp: 436246
 Ion Ratio Lower Upper
 83 100
 85 65.8 46.4 86.2
 127 8.4 6.3 9.5

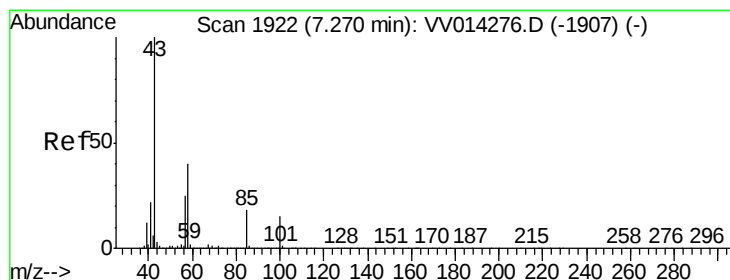
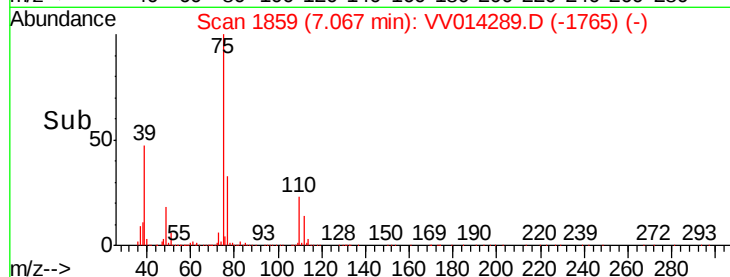
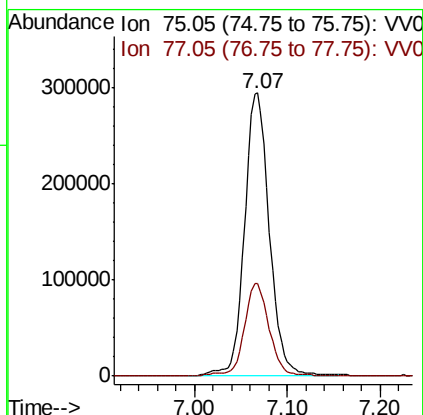
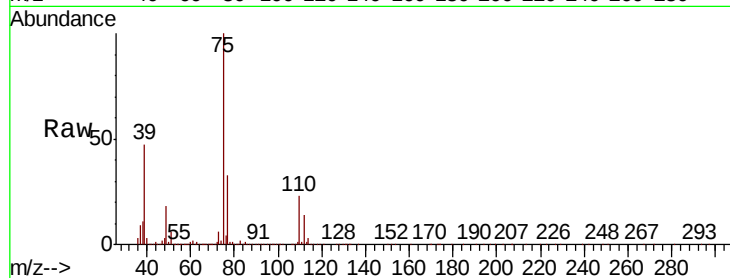




#39
 cis-1,3-Dichloropropene
 Concen: 4.502 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

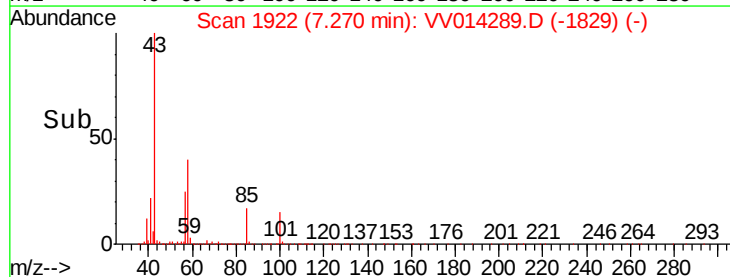
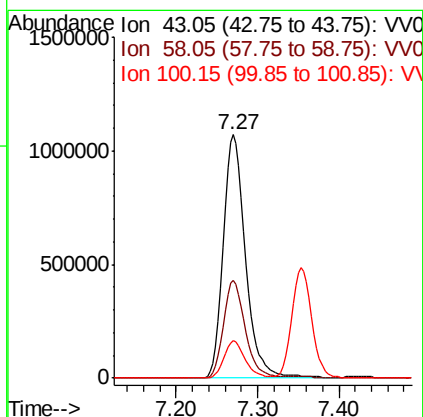
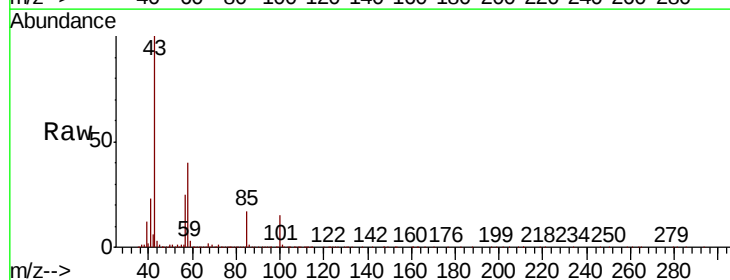
Instrument :
 MSVOA_V
 ClientSampleId :

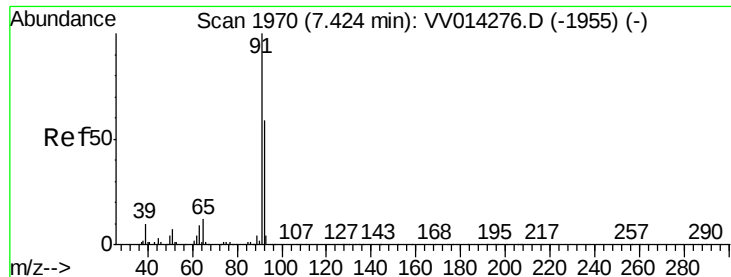
Tot Ion: 75 Resp: 549778
 Ion Ratio Lower Upper
 75 100
 77 32.7 22.4 41.6



#40
 4-Methyl-2-pentanone
 Concen: 43.566 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

Tgt Ion: 43 Resp: 2071389
 Ion Ratio Lower Upper
 43 100
 58 39.2 31.5 47.3
 100 14.5 12.2 18.2





#42

Toluene

Concen: 4.649 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

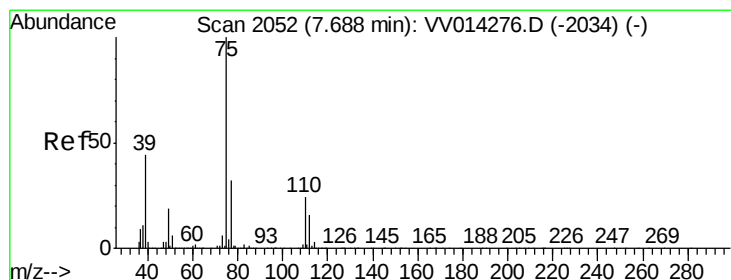
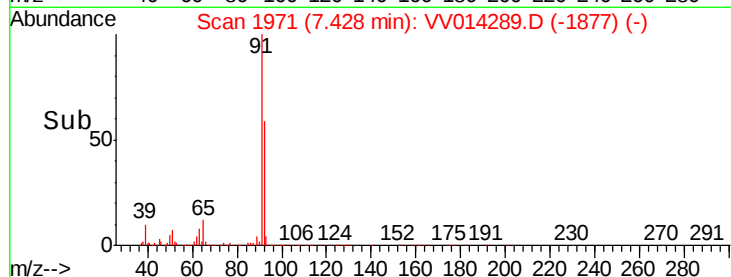
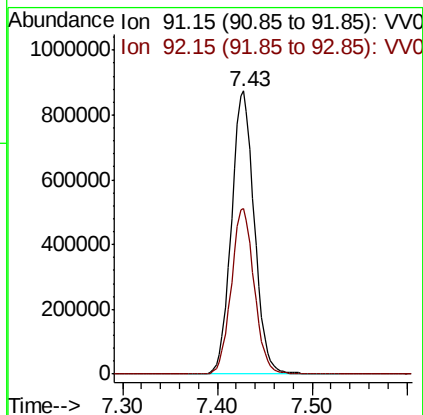
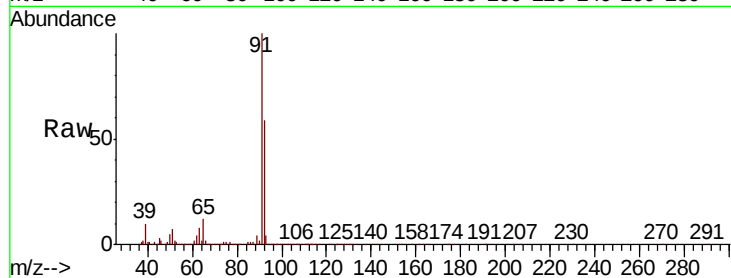
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 1466588

Ion Ratio Lower Upper

91 100

92 58.6 41.2 76.6



#44

trans-1,3-Dichloropropene

Concen: 4.573 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV014289.D

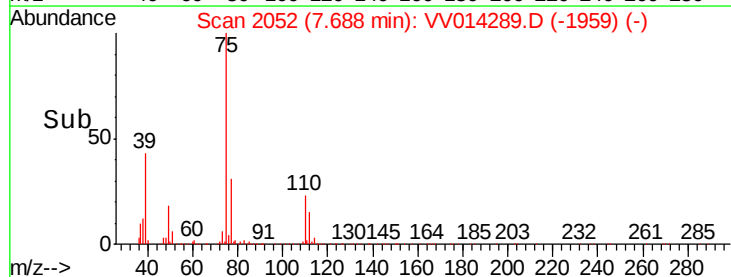
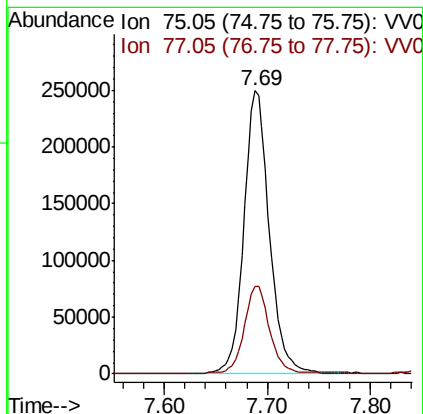
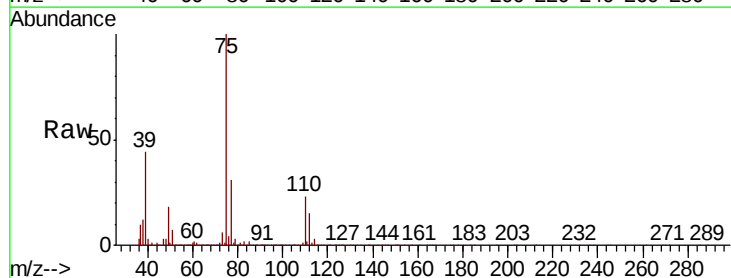
Acq: 14 Jan 2020 09:28

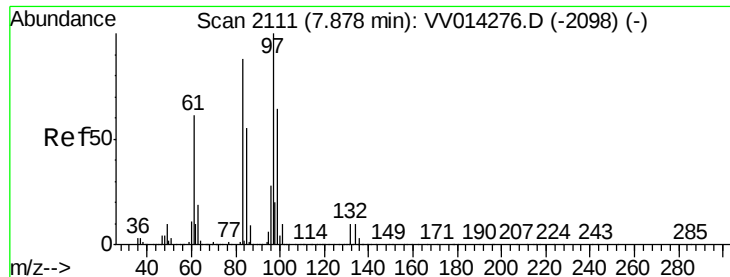
Tgt Ion: 75 Resp: 428835

Ion Ratio Lower Upper

75 100

77 30.7 22.0 41.0

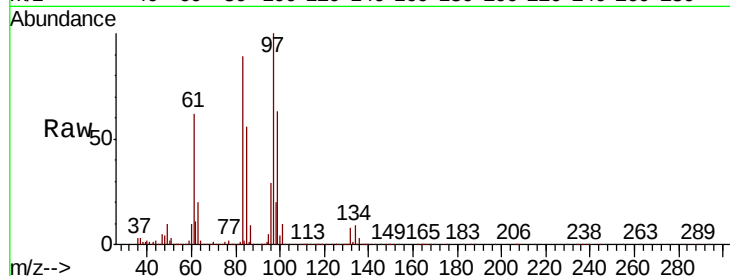




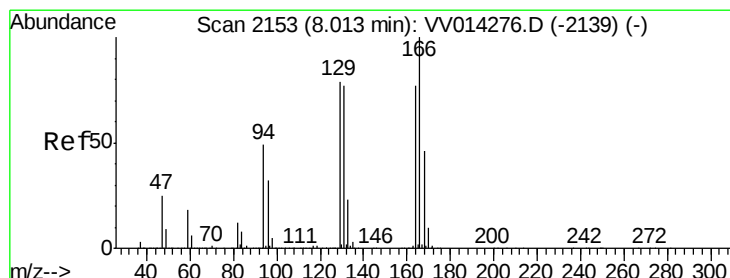
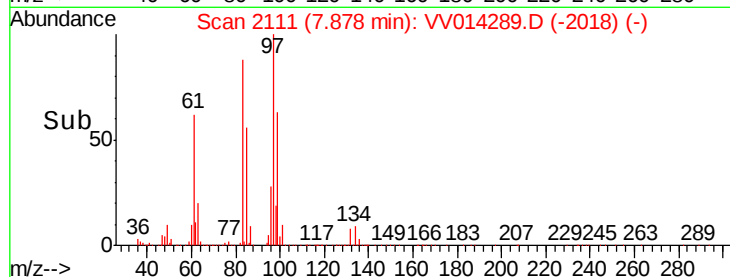
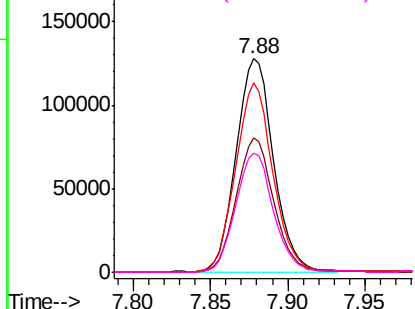
#45
1,1,2-Trichloroethane
Concen: 4.453 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	97	Resp:	214534
Ion	Ratio	Lower	Upper
97	100		
99	62.9	43.7	81.1
83	88.5	60.0	111.4
85	55.8	39.2	72.8

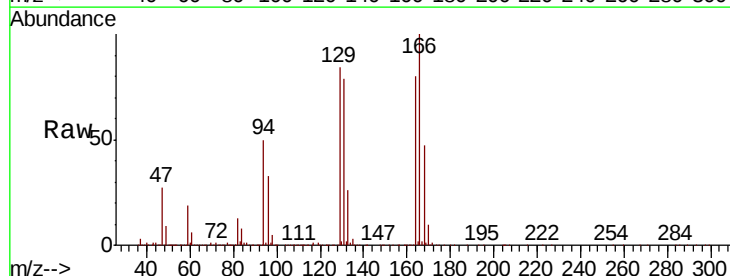


Abundance Ion 96.95 (96.65 to 97.65): VV0
Ion 99.05 (98.75 to 99.75): VV0
Ion 82.95 (82.65 to 83.65): VV0
Ion 85.00 (84.70 to 85.70): VV0

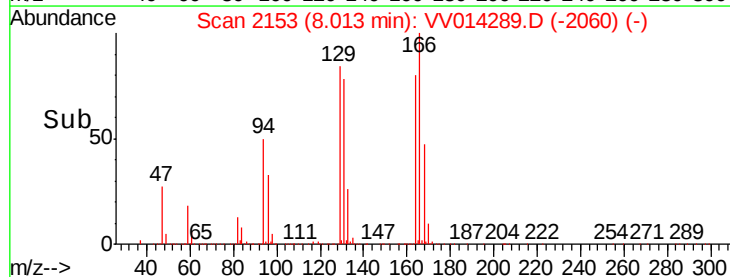
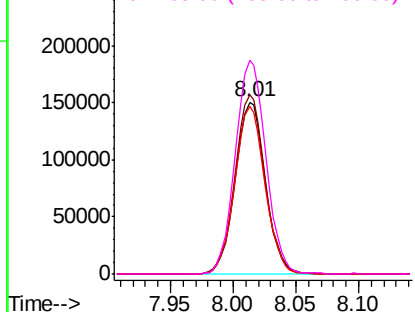


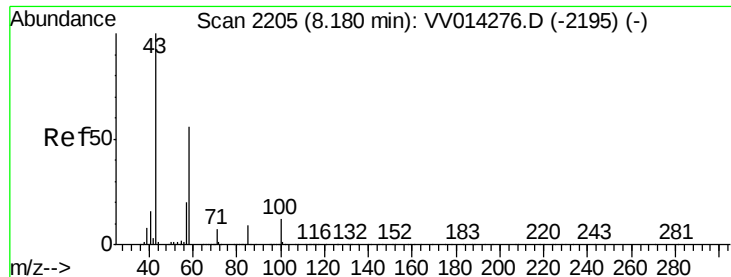
#47
Tetrachloroethene
Concen: 4.809 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

Tgt Ion:	164	Resp:	252286
Ion	Ratio	Lower	Upper
164	100		
129	104.1	71.7	133.3
131	97.6	70.4	130.8
166	124.3	90.3	167.7



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

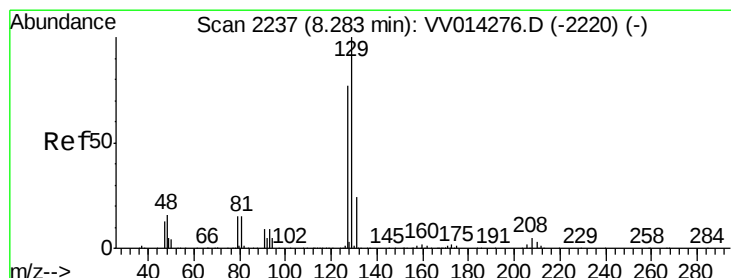
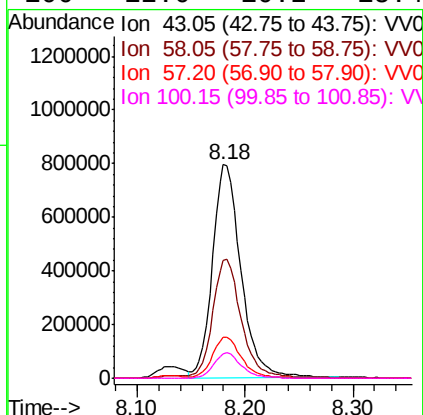
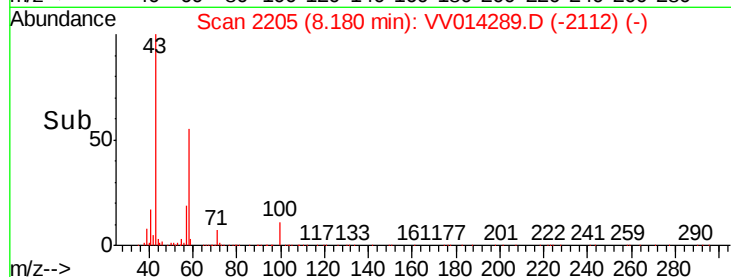
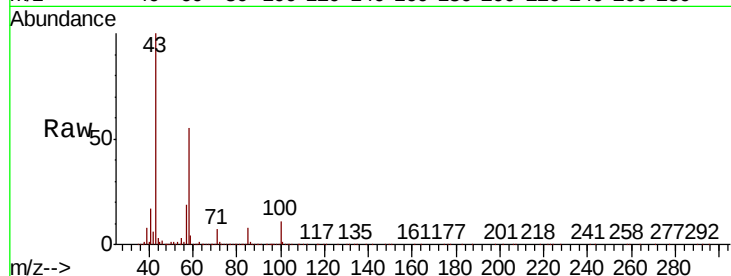




#48
2-Hexanone
Concen: 44.230 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

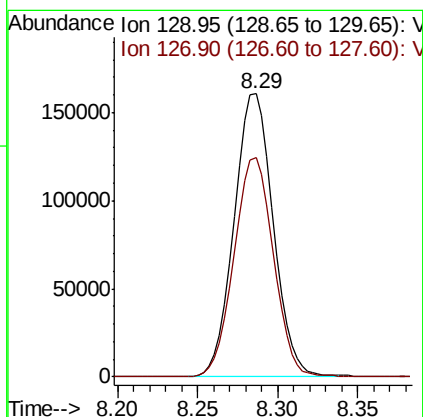
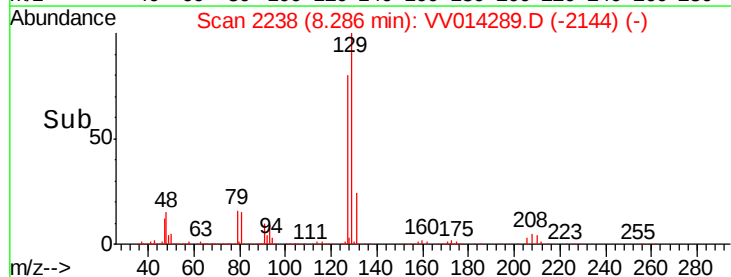
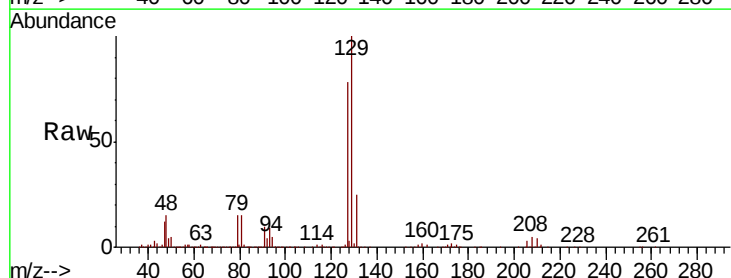
Instrument :
MSVOA_V
ClientSampleId :

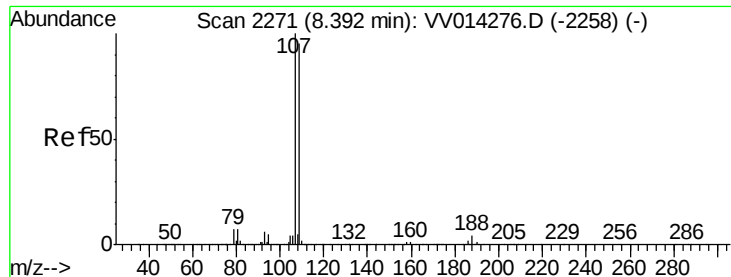
Tot Ion: 43 Resp: 1454574
Ion Ratio Lower Upper
43 100
58 55.9 45.4 68.0
57 19.7 15.8 23.8
100 12.0 10.2 15.4



#49
Dibromochloromethane
Concen: 4.371 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014289.D
Acq: 14 Jan 2020 09:28

Tgt Ion: 129 Resp: 266236
Ion Ratio Lower Upper
129 100
127 77.5 55.7 103.5

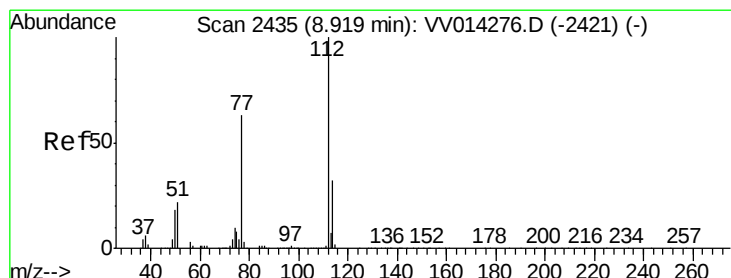
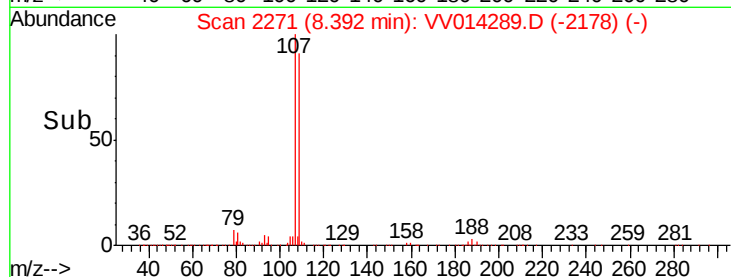
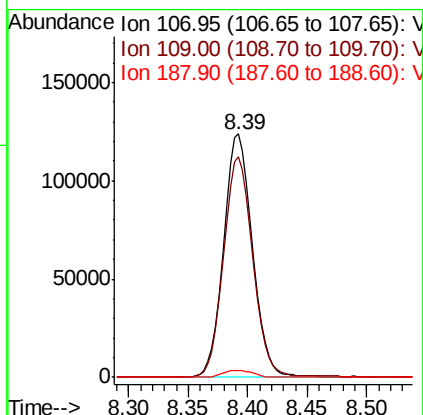
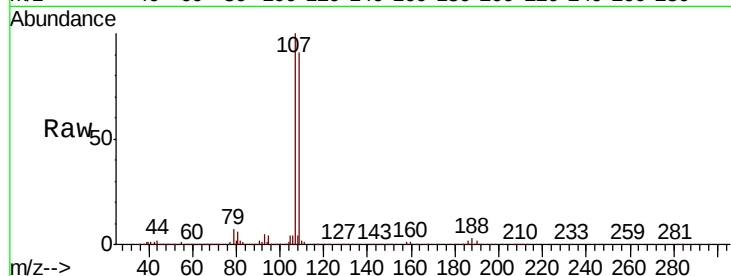




#50
 1,2-Dibromoethane
 Concen: 4.445 ug/L
 RT: 8.39 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

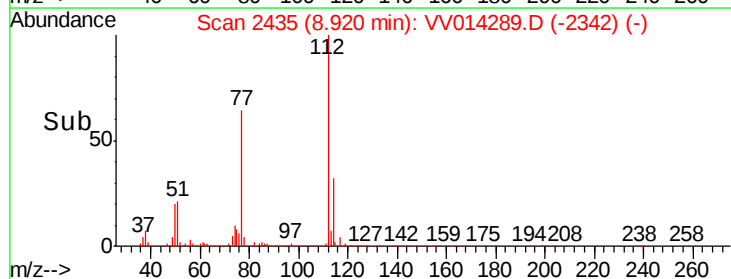
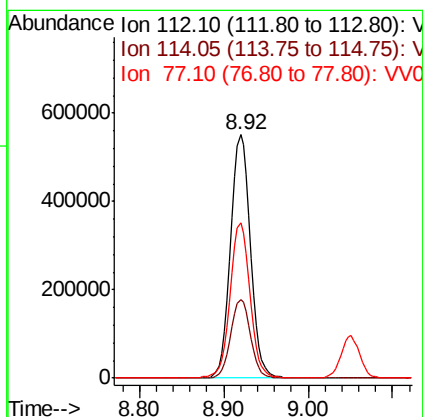
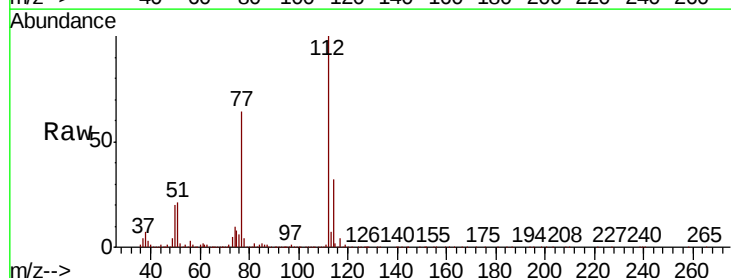
Instrument :
 MSVOA_V
 ClientSampleId :

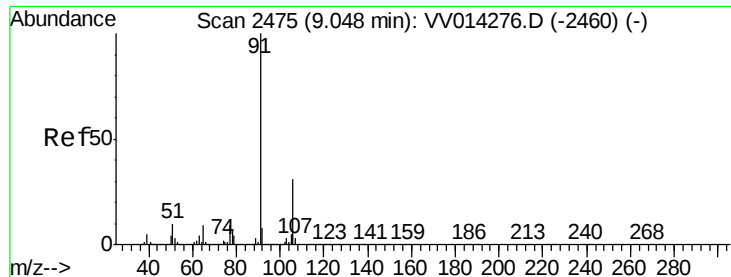
Tot Ion	Ratio	Lower	Upper
107	100		
109	90.7	63.0	117.0
188	3.0	3.0	4.4



#51
 Chlorobenzene
 Concen: 4.665 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.5	41.7
77	63.9	49.3	73.9





#52

Ethylbenzene

Concen: 4.785 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

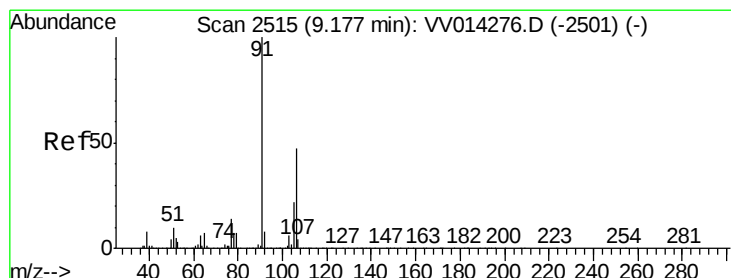
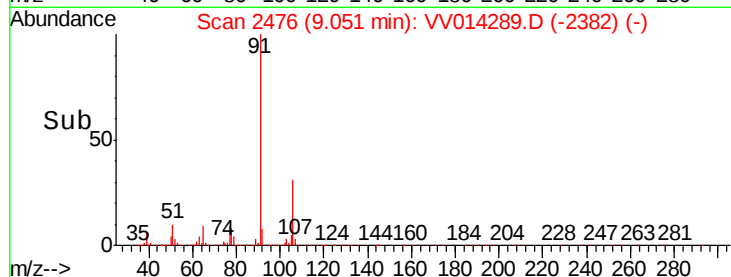
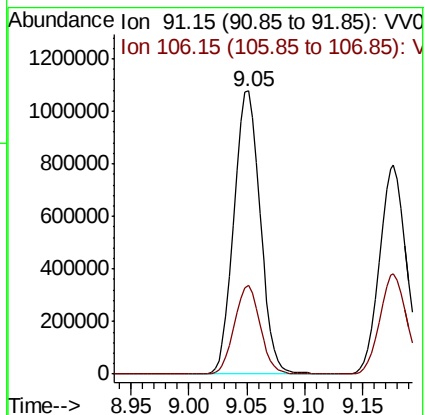
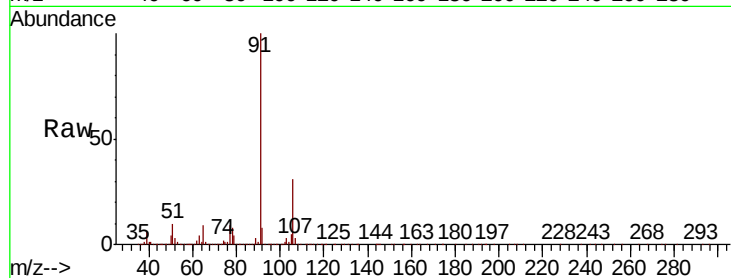
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 1688386

Ion Ratio Lower Upper

91 100

106 31.3 21.6 40.0



#53

m,p-xylene

Concen: 4.794 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV014289.D

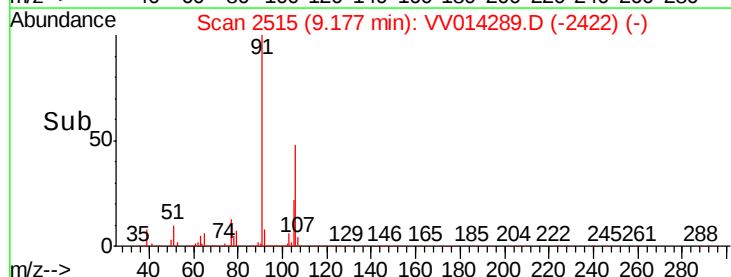
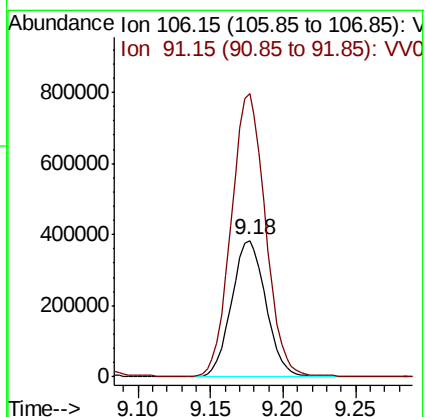
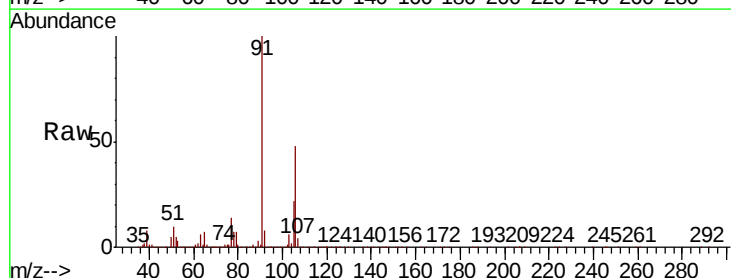
Acq: 14 Jan 2020 09:28

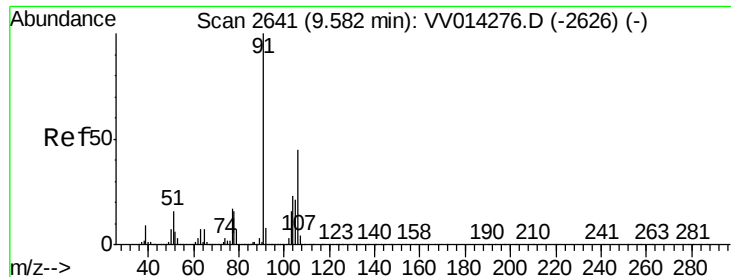
Tgt Ion: 106 Resp: 624057

Ion Ratio Lower Upper

106 100

91 207.5 146.8 272.6





#54

o-xylene

Concen: 4.703 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

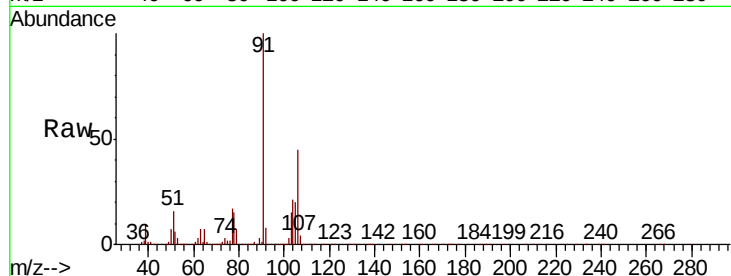
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 602017

Ion Ratio Lower Upper

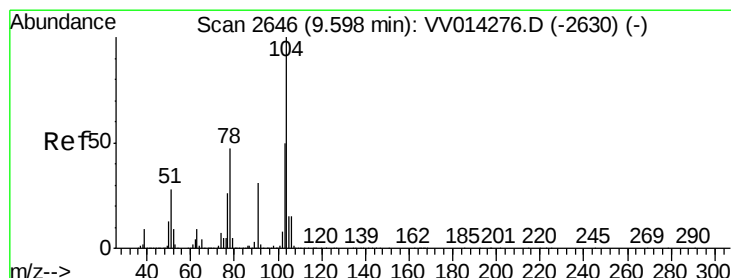
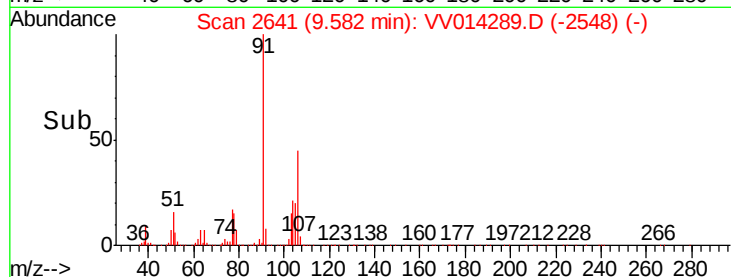
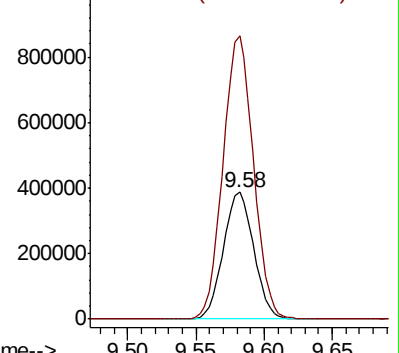
106 100

91 223.6 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 4.667 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV014289.D

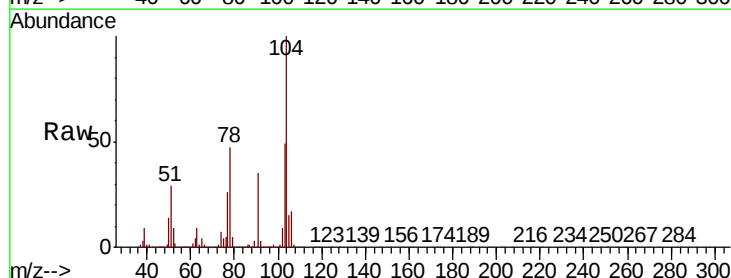
Acq: 14 Jan 2020 09:28

Tgt Ion:104 Resp: 1012156

Ion Ratio Lower Upper

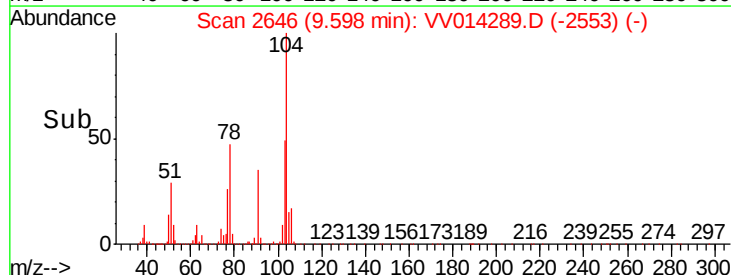
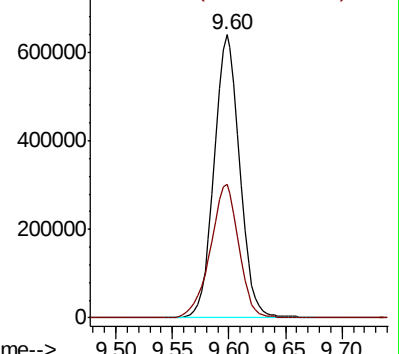
104 100

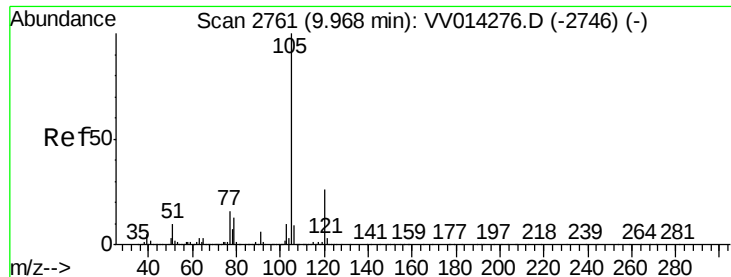
78 47.4 31.7 58.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.862 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

Instrument :

MSVOA_V

ClientSampled :

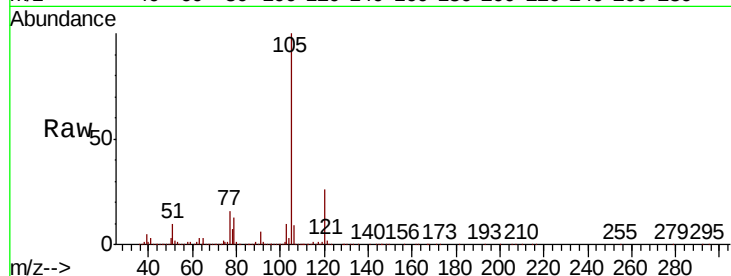
Tot Ion:105 Resp: 1623633

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.4

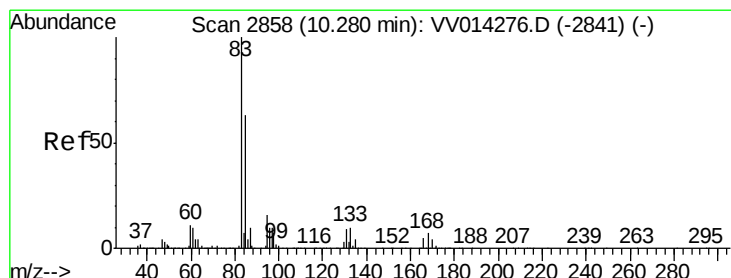
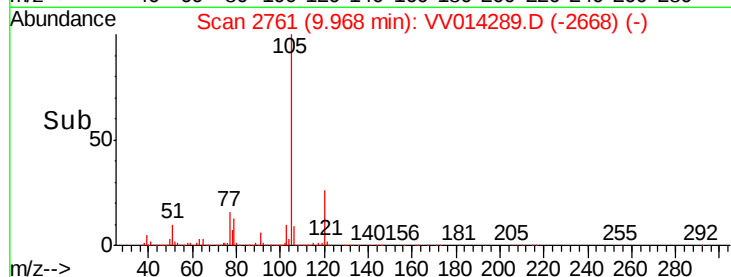
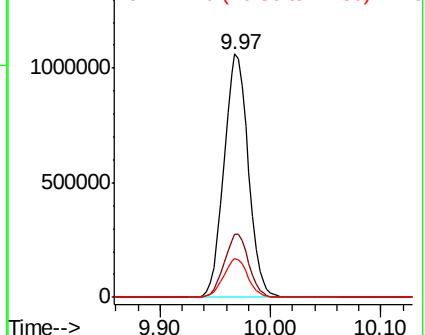
77 15.8 12.5 18.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.564 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

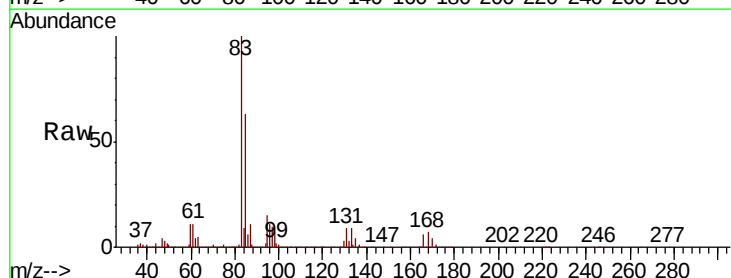
Tgt Ion: 83 Resp: 271152

Ion Ratio Lower Upper

83 100

85 62.7 45.9 85.3

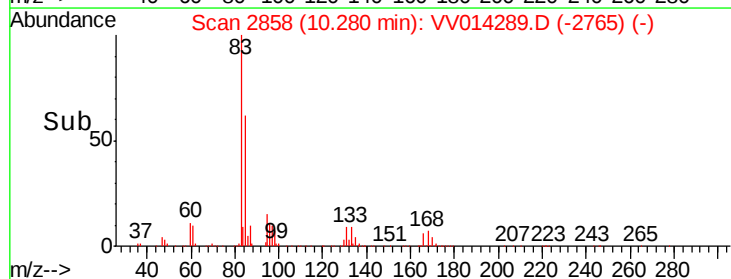
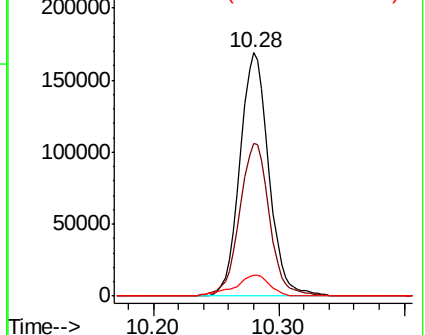
131 8.6 7.8 11.8

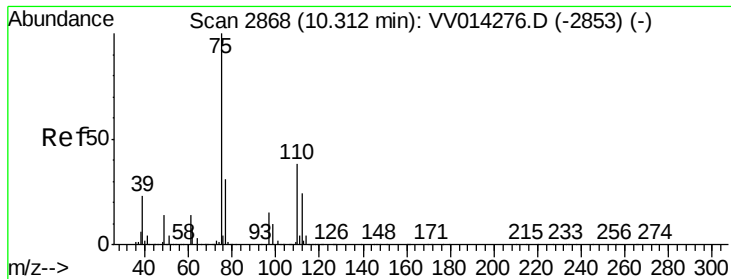


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.426 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

Instrument :

MSVOA_V

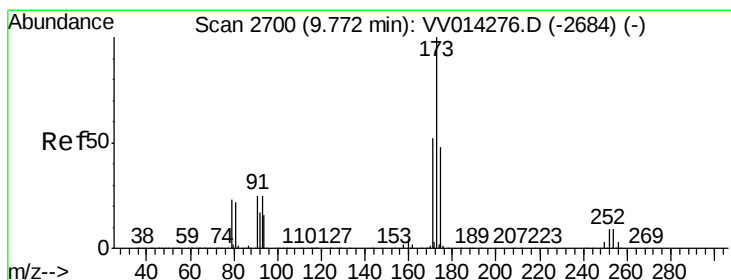
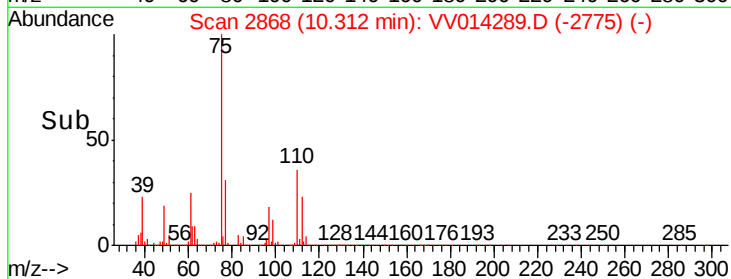
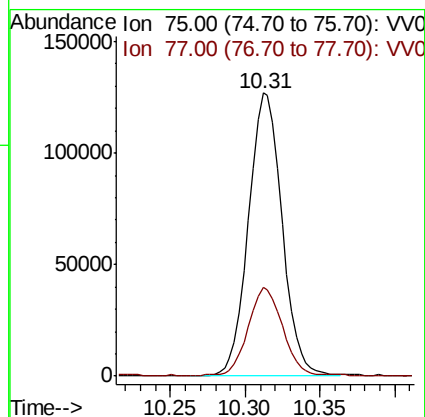
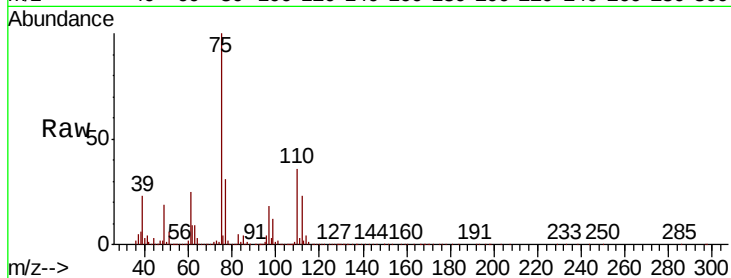
ClientSampled :

Tot Ion: 75 Resp: 198936

Ion Ratio Lower Upper

75 100

77 31.7 25.7 38.5



#61

Bromoform

Concen: 4.496 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

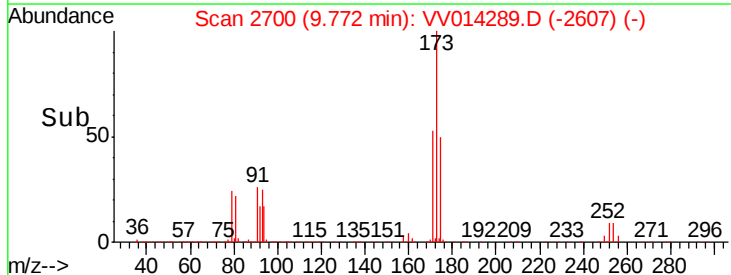
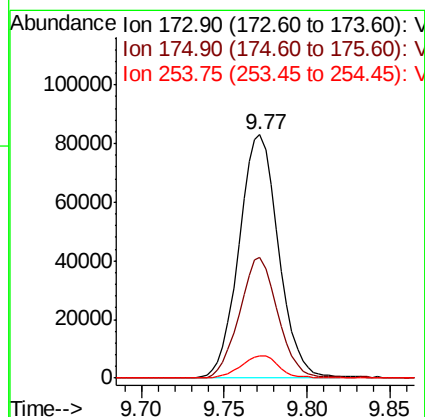
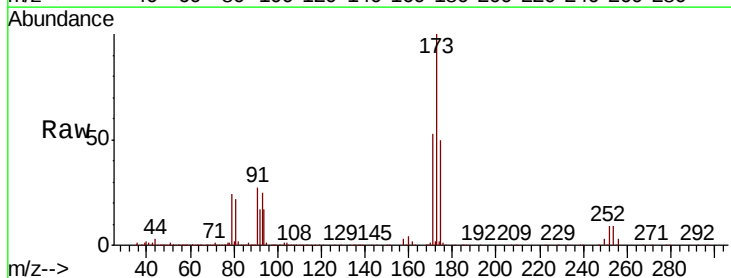
Tgt Ion: 173 Resp: 136575

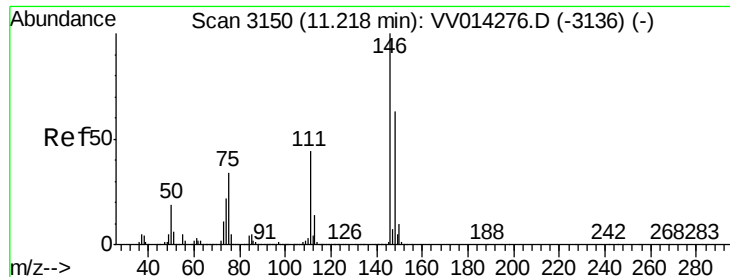
Ion Ratio Lower Upper

173 100

175 48.5 37.9 56.9

254 9.2 7.6 11.4





#62

1,3-Dichlorobenzene

Concen: 4.789 ug/L

RT: 11.22 min Scan# 3150

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

Instrument :

MSVOA_V

ClientSampled :

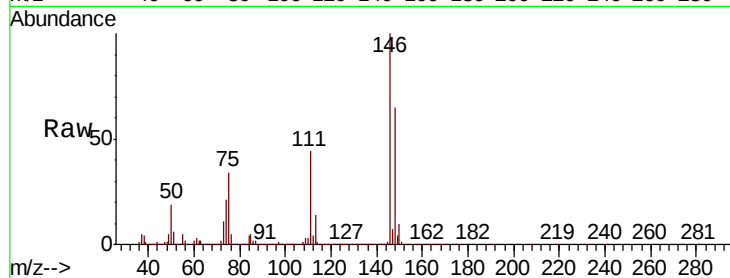
Tot Ion:146 Resp: 670975

Ion Ratio Lower Upper

146 100

111 44.0 30.7 57.1

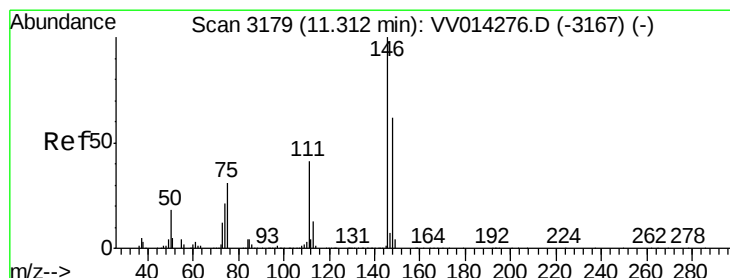
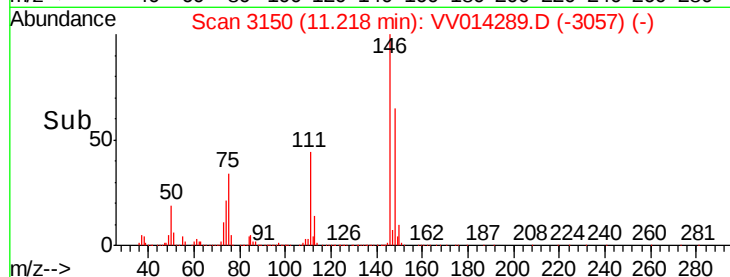
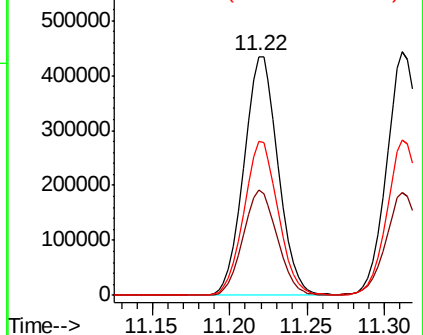
148 64.5 44.4 82.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.841 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

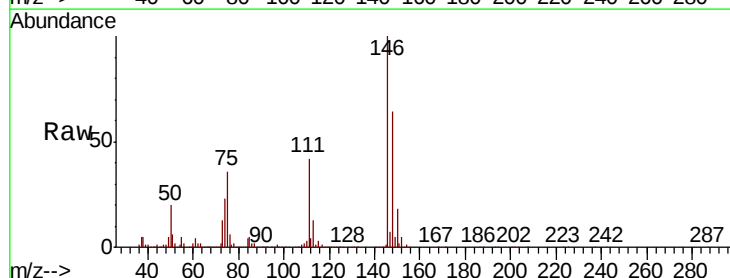
Tgt Ion:146 Resp: 674390

Ion Ratio Lower Upper

146 100

111 42.3 28.8 53.4

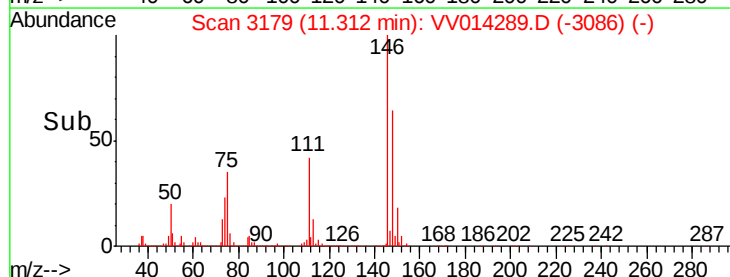
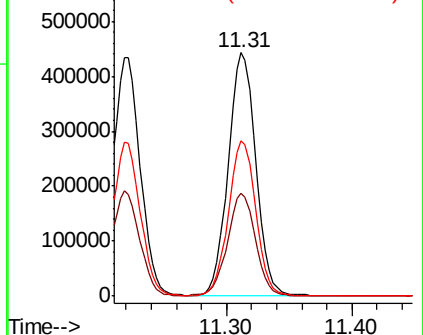
148 63.9 44.5 82.7

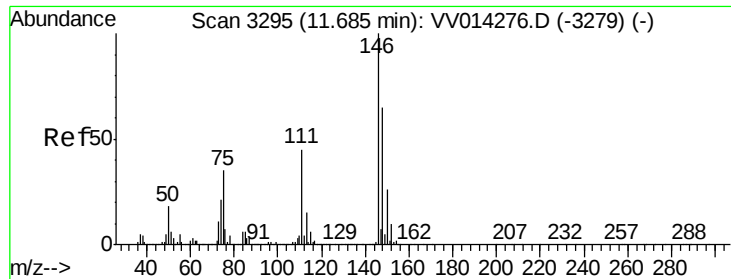


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

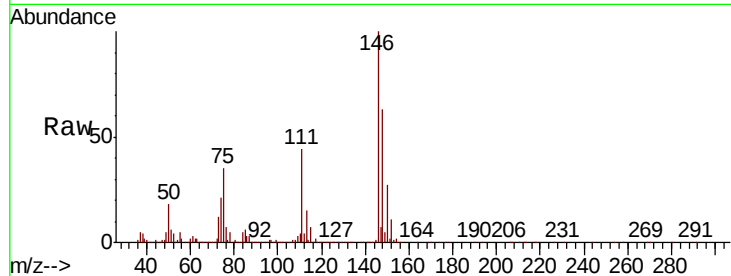




#65
 1,2-Dichlorobenzene
 Concen: 4.798 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.3	36.4	54.6
148	62.9	51.3	76.9

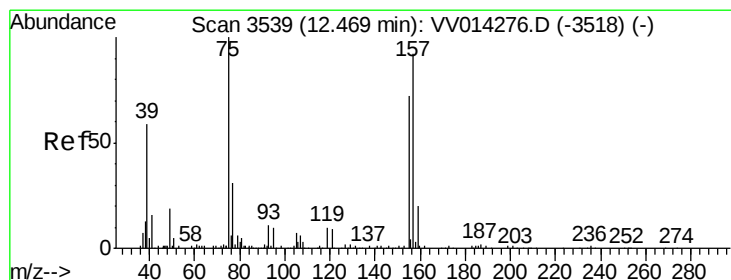
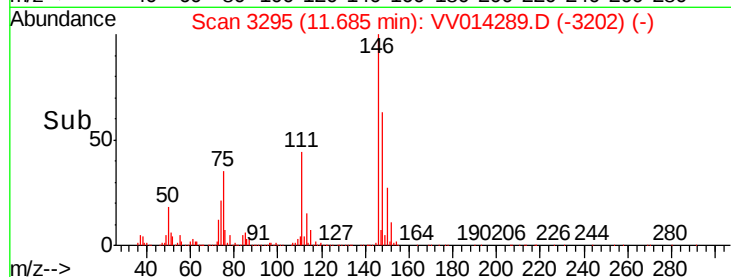
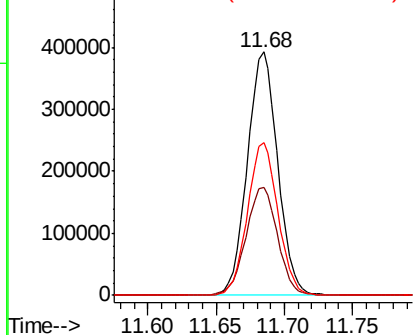


Abundance

Ion 145.95 (145.65 to 146.65): V

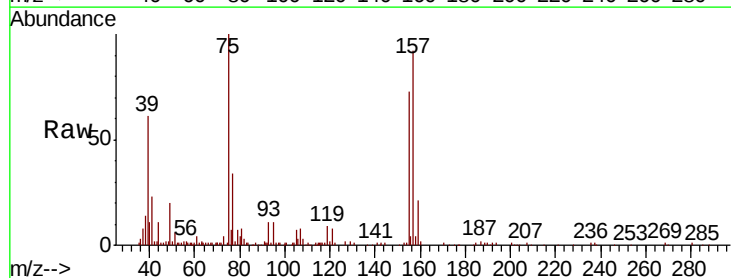
Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.332 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.2	56.9	85.3
157	91.5	82.0	123.0

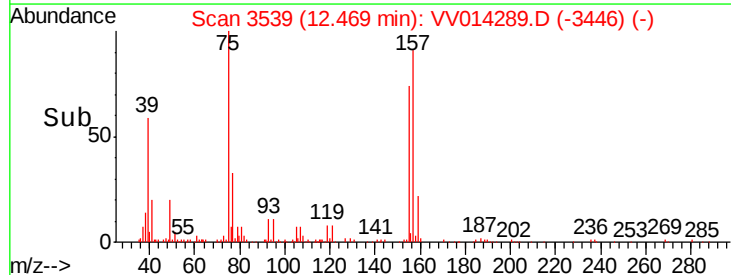
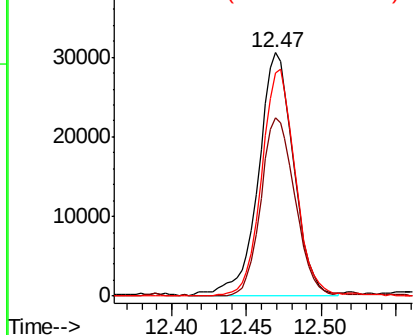


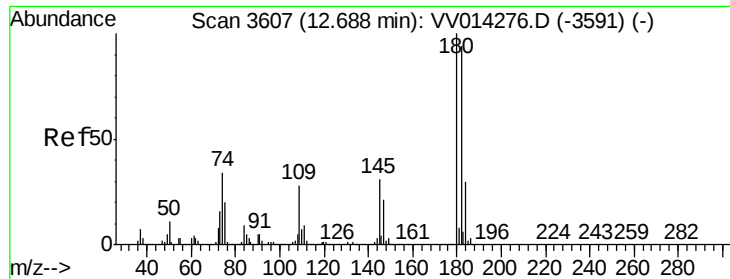
Abundance

Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

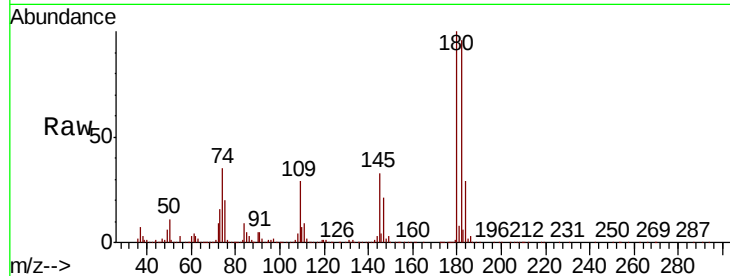




#67
 1,3,5-Trichlorobenzene
 Concen: 4.785 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	77.2	115.8
184	29.6	24.6	36.8
145	33.2	26.9	40.3



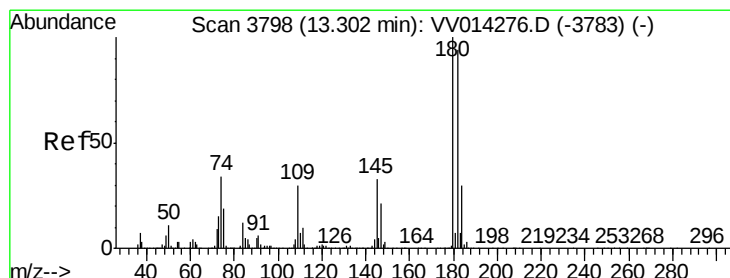
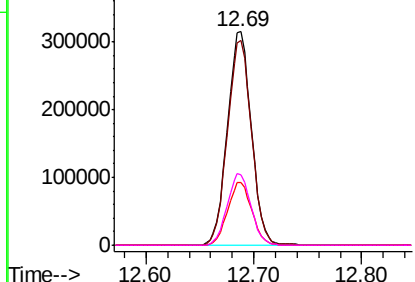
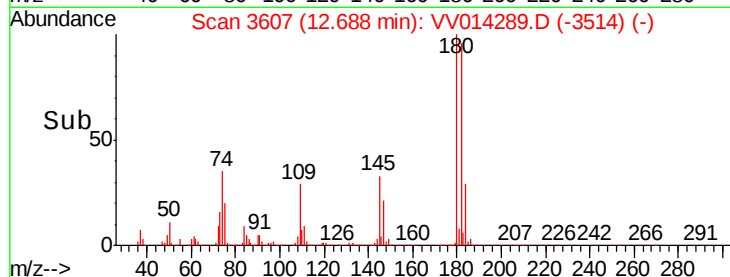
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

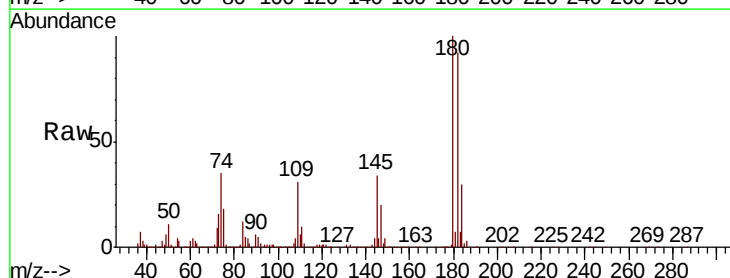
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 4.785 ug/L
 RT: 13.30 min Scan# 3798
 Delta R.T. 0.00 min
 Lab File: VV014289.D
 Acq: 14 Jan 2020 09:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.1	75.2	112.8
145	33.3	26.2	39.4

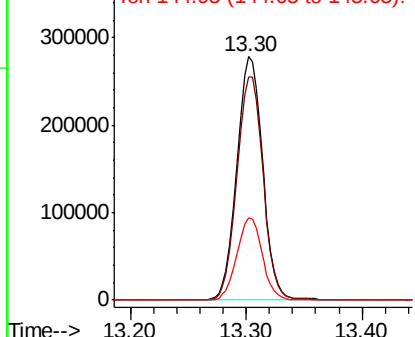
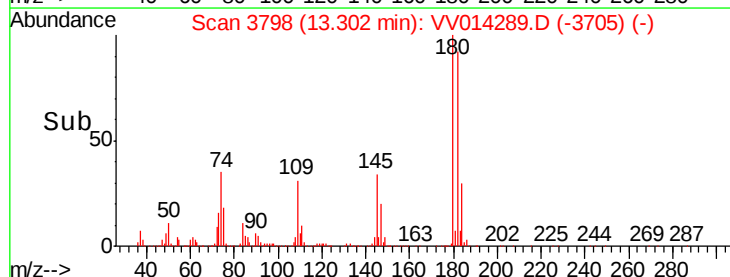


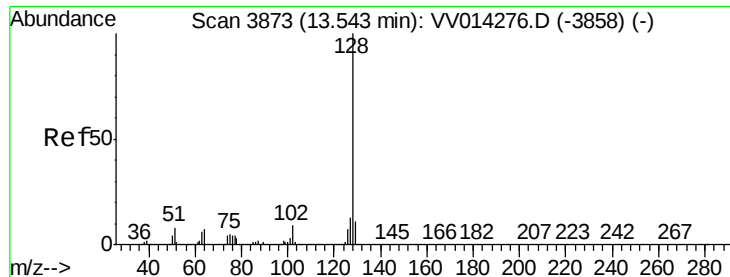
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.329 ug/L

RT: 13.54 min Scan# 3873

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

Instrument :

MSVOA_V

ClientSampleId :

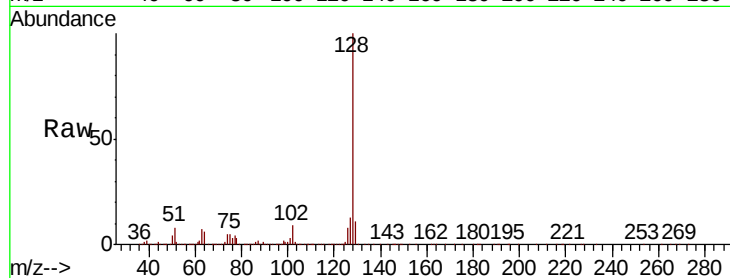
Tot Ion:128 Resp: 785961

Ion Ratio Lower Upper

128 100

129 10.9 8.6 13.0

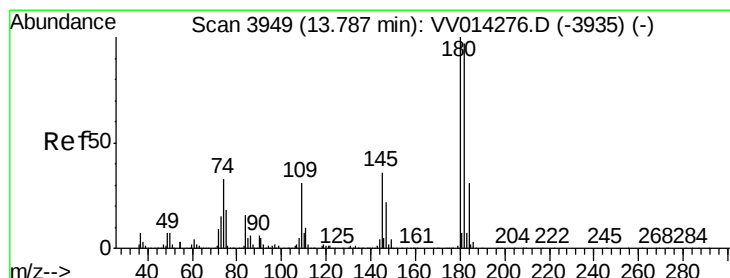
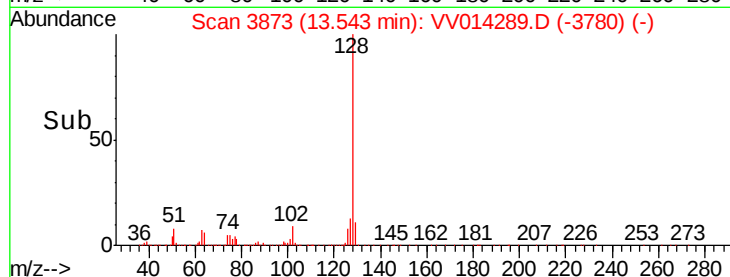
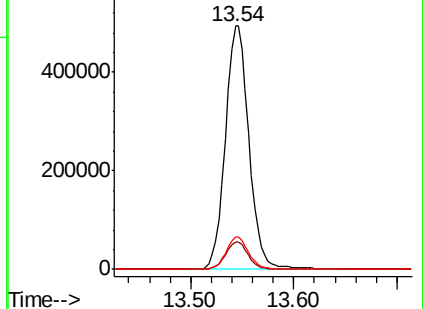
127 12.9 10.2 15.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.633 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV014289.D

Acq: 14 Jan 2020 09:28

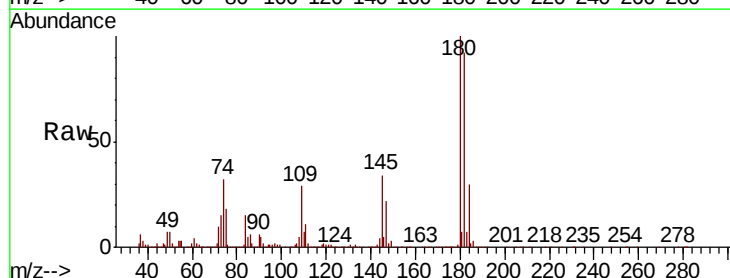
Tgt Ion:180 Resp: 364322

Ion Ratio Lower Upper

180 100

182 93.8 74.8 112.2

145 34.6 29.0 43.6



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

