

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112619\
 Data File : VV013789.D
 Acq On : 26 Nov 2019 16:02
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 27 03:01:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 27 01:18:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	364319	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	336922	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	175567	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	87105	3.86	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.20%
7) Chloroethane-d5	1.58	69	81957	4.28	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.60%
11) 1,1-Dichloroethene-d2	2.12	63	163808	4.32	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.40%
20) 2-Butanone-d5	3.95	46	277376	59.17	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.34%
24) Chloroform-d	4.39	84	202552	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
26) 1,2-Dichloroethane-d4	5.07	65	107199	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
32) Benzene-d6	5.09	84	399206	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.80%
36) 1,2-Dichloropropane-d6	6.11	67	121509	4.69	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.80%
41) Toluene-d8	7.35	98	357420	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	7.66	79	46292	4.59	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.80%
46) 2-Hexanone-d5	8.13	63	217897	58.59	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.18%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	97015	5.40	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	142078	4.58	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	127873	5.270	ug/L	97
3) Chloromethane	1.25	50	109908	5.158	ug/L	99
5) Vinyl chloride	1.32	62	114800	5.275	ug/L	99
6) Bromomethane	1.53	94	66576	5.809	ug/L	100
8) Chloroethane	1.60	64	68491	5.222	ug/L	99
9) Trichlorofluoromethane	1.76	101	177242	5.244	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	107978	5.377	ug/L	100
12) 1,1-Dichloroethene	2.13	96	92062	5.256	ug/L	82
13) Acetone	2.22	43	189764	57.890	ug/L #	52
14) Carbon disulfide	2.31	76	200124	4.949	ug/L	99
15) Methyl Acetate	2.47	43	45016	6.134	ug/L	99
16) Methylene chloride	2.53	84	114984	4.792	ug/L	98
17) Methyl tert-butyl Ether	2.80	73	264069	5.509	ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	102553	5.185	ug/L	97
19) 1,1-Dichloroethane	3.22	63	209202	5.298	ug/L	98
21) 2-Butanone	4.04	43	302831	61.118	ug/L	100
22) cis-1,2-Dichloroethene	3.95	96	121229	5.227	ug/L	98

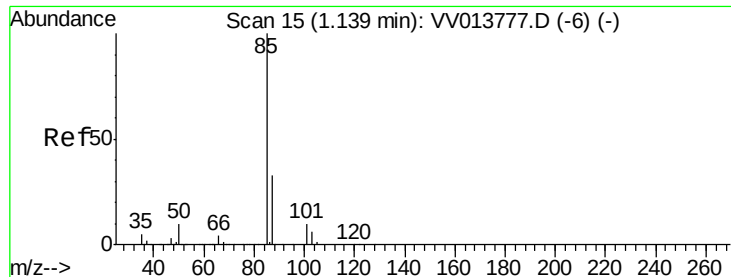
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112619\
 Data File : VV013789.D
 Acq On : 26 Nov 2019 16:02
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 27 03:01:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 27 01:18:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.29	128	59038	5.792	ug/L	98
25) Chloroform	4.42	83	232346	5.550	ug/L	100
27) 1,2-Dichloroethane	5.17	62	130049	5.428	ug/L	98
29) 1,1,1-Trichloroethane	4.65	97	189037	5.485	ug/L	99
30) Cyclohexane	4.72	56	149354	5.187	ug/L	97
31) Carbon tetrachloride	4.87	117	166630	5.495	ug/L	99
33) Benzene	5.14	78	454604	5.501	ug/L	100
34) Trichloroethene	5.95	95	118604	5.202	ug/L	98
35) Methylcyclohexane	6.17	83	154515	5.079	ug/L	97
37) 1,2-Dichloropropane	6.22	63	117538	5.533	ug/L	99
38) Bromodichloromethane	6.55	83	154537	5.514	ug/L	96
39) cis-1,3-Dichloropropene	7.06	75	159948	5.307	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	734132	59.234	ug/L	100
42) Toluene	7.42	91	475697	5.366	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	125226	5.308	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	84949	5.612	ug/L	98
47) Tetrachloroethene	8.01	164	102253	5.165	ug/L	98
48) 2-Hexanone	8.18	43	534777	60.451	ug/L	97
49) Dibromochloromethane	8.28	129	109402	5.635	ug/L	99
50) 1,2-Dibromoethane	8.39	107	77252	5.635	ug/L	99
51) Chlorobenzene	8.92	112	311202	5.045	ug/L	99
52) Ethylbenzene	9.05	91	499716	5.189	ug/L	99
53) m,p-xylene	9.18	106	192863	5.253	ug/L	99
54) o-xylene	9.58	106	187420	5.229	ug/L	98
55) Styrene	9.60	104	328345	5.306	ug/L	98
56) Isopropylbenzene	9.97	105	498531	5.104	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.28	83	99075	5.957	ug/L	98
59) 1,2,3-Trichloropropane	10.31	75	74166	5.688	ug/L	99
61) Bromoform	9.77	173	65760	5.952	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	261027	5.118	ug/L	99
63) 1,4-Dichlorobenzene	11.31	146	252724	4.868	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	252461	5.333	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.47	75	15860	5.765	ug/L	94
67) 1,3,5-Trichlorobenzene	12.69	180	206366	4.790	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	151756	4.295	ug/L	99
69) Naphthalene	13.55	128	195712	4.068	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	154269	4.793	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 5.270 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

Instrument :

MSVOA_V

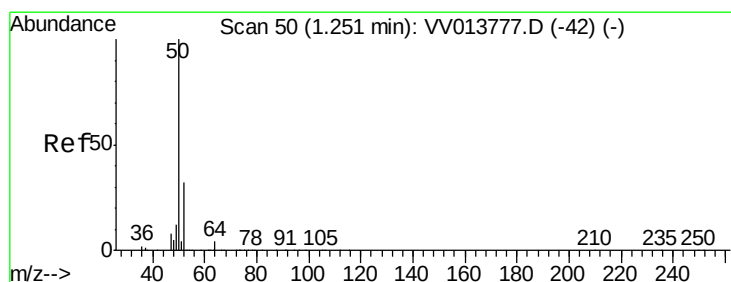
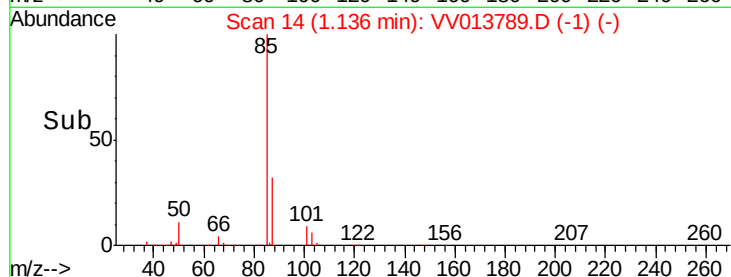
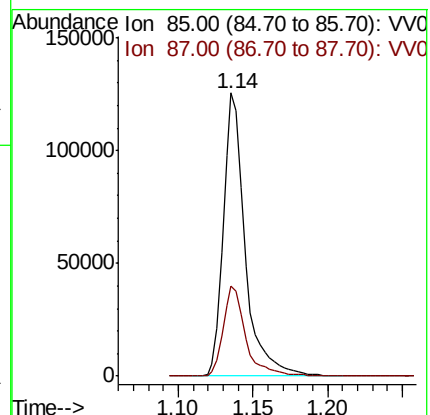
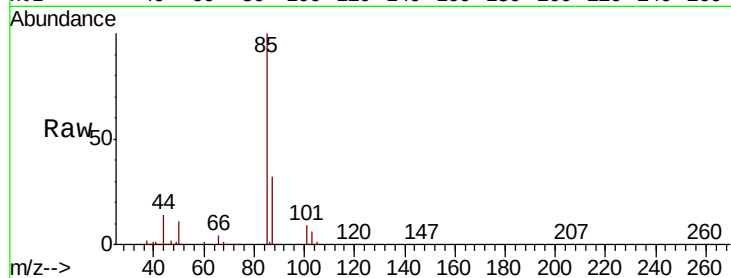
ClientSampled :

Tot Ion: 85 Resp: 127873

Ion Ratio Lower Upper

85 100

87 32.8 27.4 41.2



#3

Chloromethane

Concen: 5.158 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV013789.D

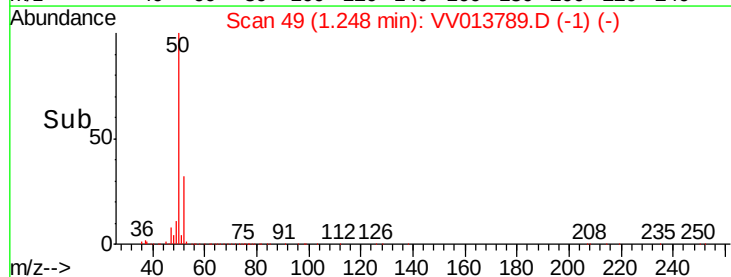
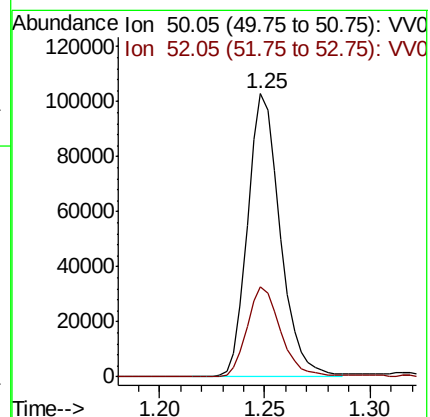
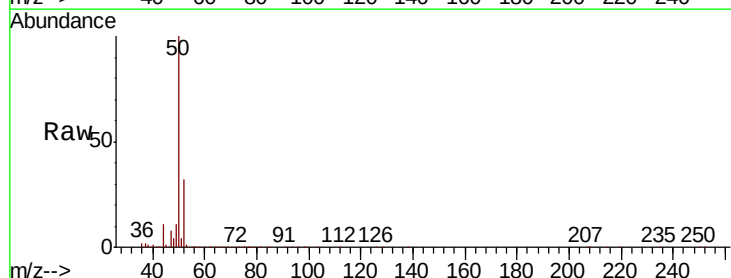
Acq: 26 Nov 2019 16:02

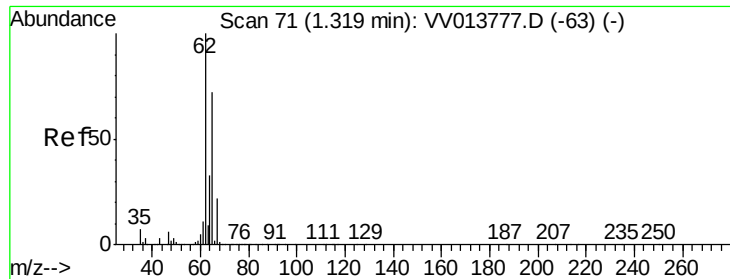
Tgt Ion: 50 Resp: 109908

Ion Ratio Lower Upper

50 100

52 31.7 22.5 41.7





#5

Vinyl chloride

Concen: 5.275 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

Instrument :

MSVOA_V

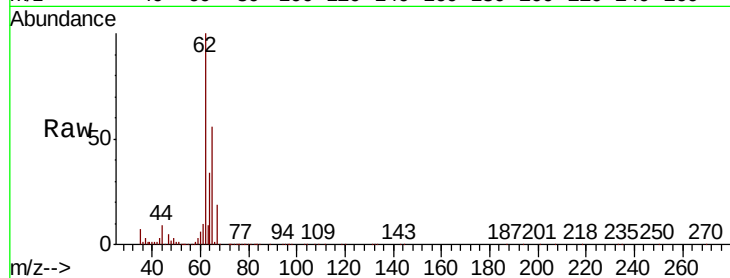
ClientSampleId :

Tot Ion: 62 Resp: 114800

Ion Ratio Lower Upper

62 100

64 33.7 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

120000

100000

80000

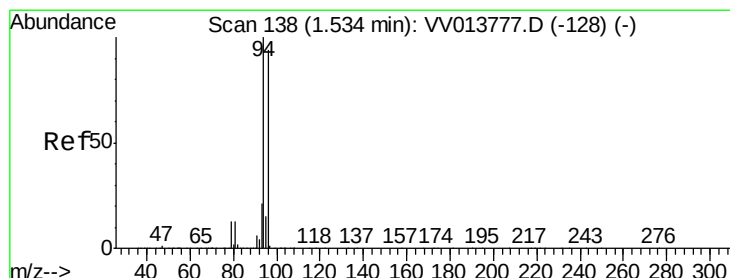
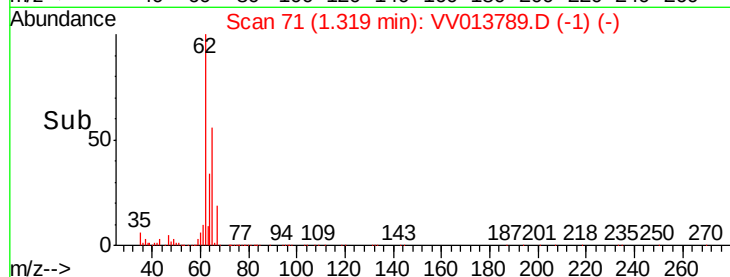
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 5.809 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV013789.D

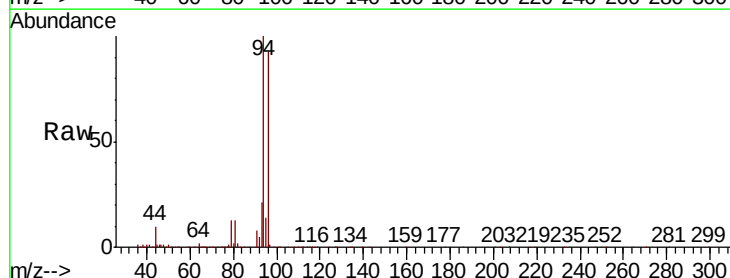
Acq: 26 Nov 2019 16:02

Tgt Ion: 94 Resp: 66576

Ion Ratio Lower Upper

94 100

96 93.0 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.53

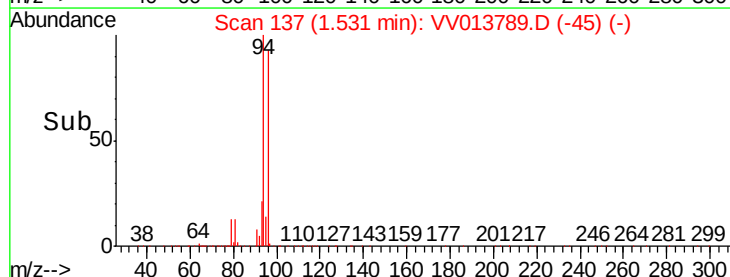
60000

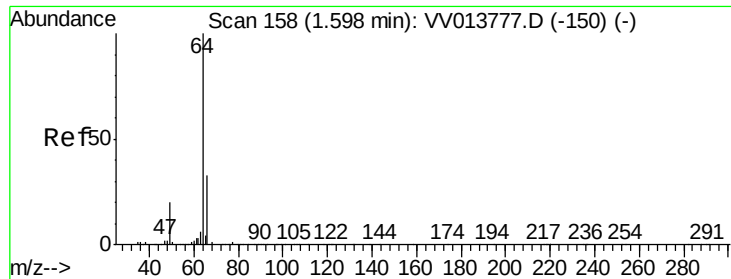
40000

20000

0

Time-->





#8

Chloroethane

Concen: 5.222 ug/L

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

Instrument :

MSVOA_V

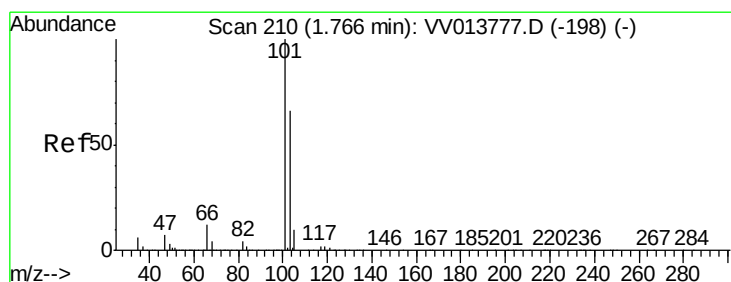
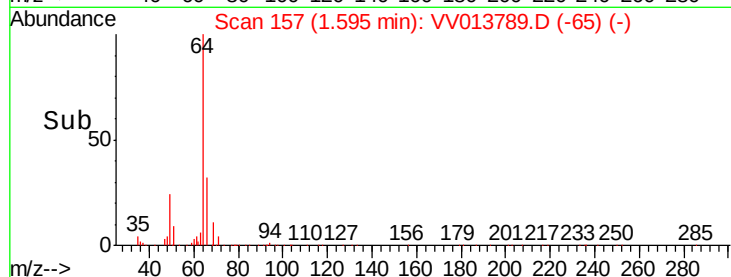
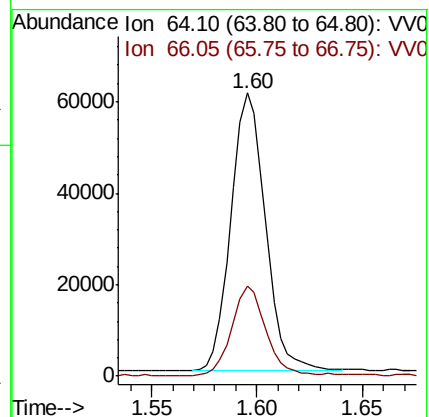
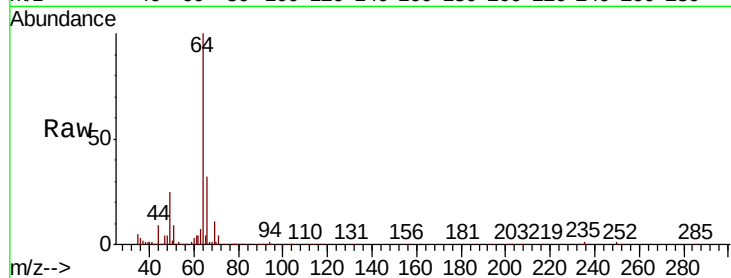
ClientSampleId :

Tot Ion: 64 Resp: 68491

Ion Ratio Lower Upper

64 100

66 31.9 22.6 42.0



#9

Trichlorofluoromethane

Concen: 5.244 ug/L

RT: 1.76 min Scan# 209

Delta R.T. -0.00 min

Lab File: VV013789.D

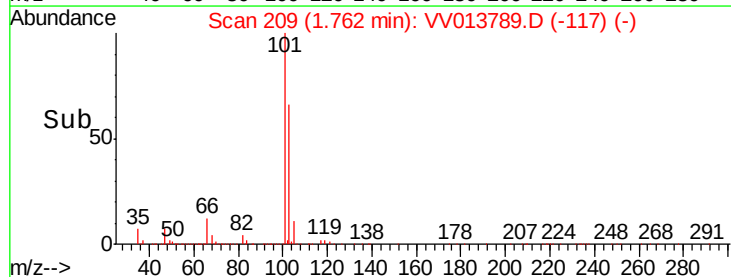
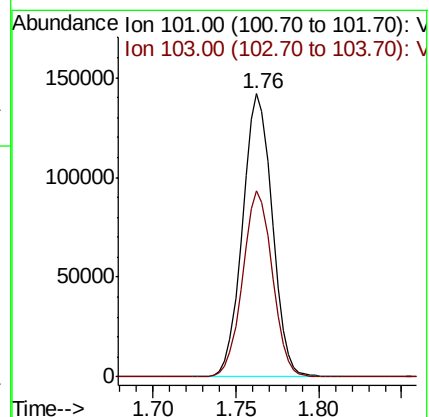
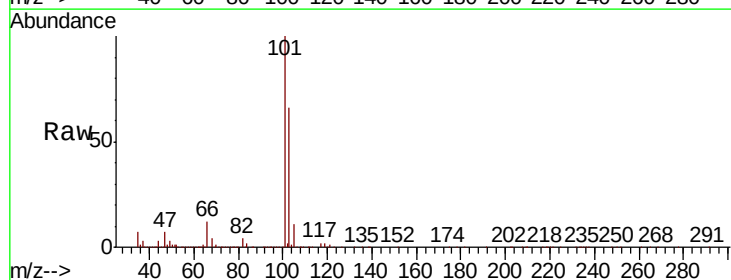
Acq: 26 Nov 2019 16:02

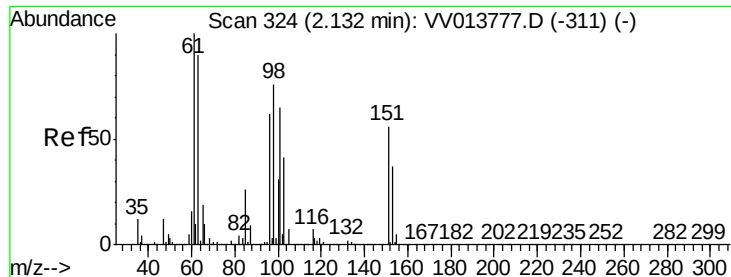
Tgt Ion: 101 Resp: 177242

Ion Ratio Lower Upper

101 100

103 65.7 52.9 79.3





#10

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

Concen: 5.377 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

Instrument :

MSVOA_V

ClientSampleId :

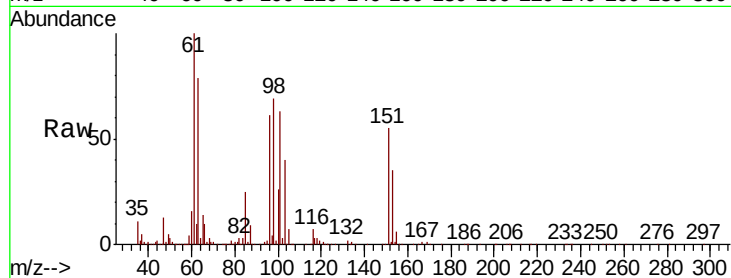
Tot Ion:101 Resp: 107978

Ion Ratio Lower Upper

101 100

85 41.0 33.4 50.0

151 86.9 69.4 104.0

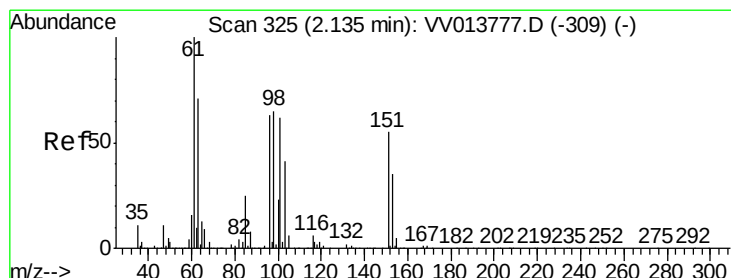
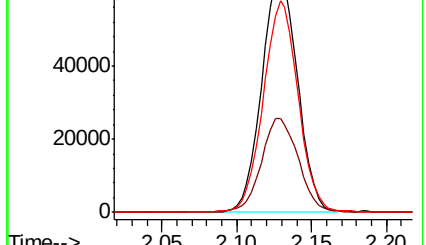
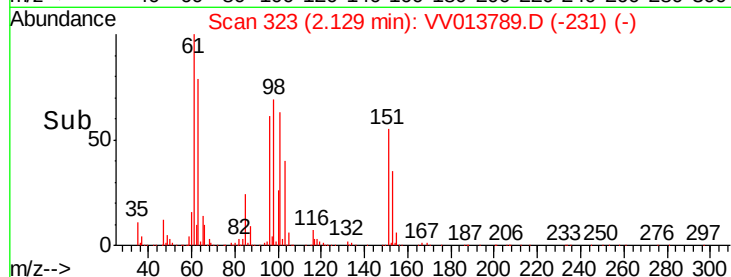


Abundance Ion 101.00 (100.70 to 101.70): VV013777.D (-311) (-)

Ion 85.00 (84.70 to 85.70): VV013777.D (-311) (-)

Ion 151.00 (150.70 to 151.70): VV013777.D (-311) (-)

Time-->



#12

1,1-Dichloroethene

Concen: 5.256 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

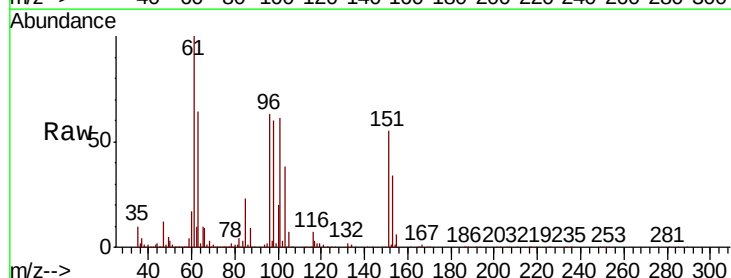
Tgt Ion: 96 Resp: 92062

Ion Ratio Lower Upper

96 100

61 157.5 116.3 215.9

63 100.5 96.7 179.7

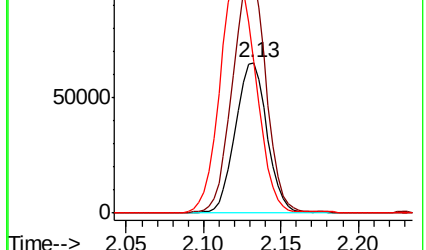
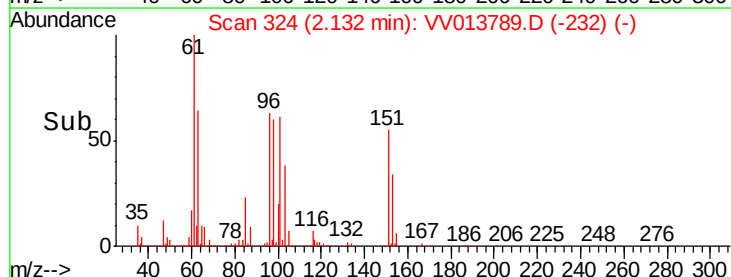


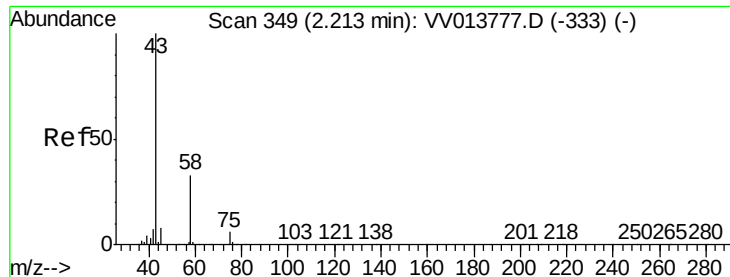
Abundance Ion 96.00 (95.70 to 96.70): VV013777.D (-309) (-)

Ion 61.05 (60.75 to 61.75): VV013777.D (-309) (-)

Ion 63.00 (62.70 to 63.70): VV013777.D (-309) (-)

Time-->





#13

Acetone

Concen: 57.890 ug/L

RT: 2.22 min Scan# 352

Delta R.T. 0.01 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

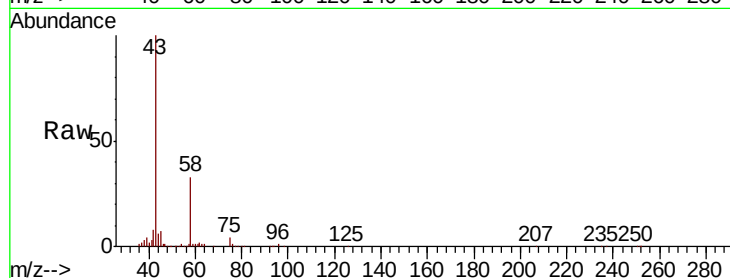
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 189764

Ion Ratio Lower Upper

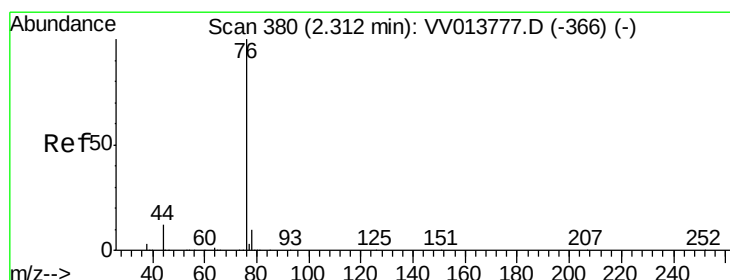
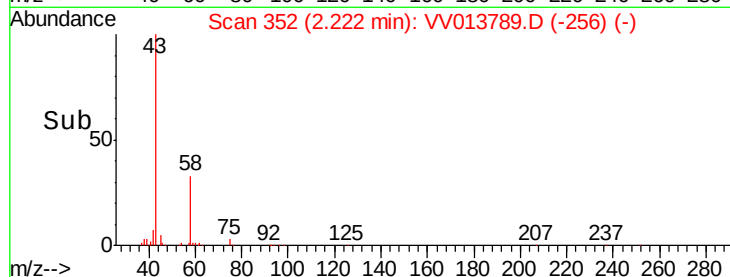
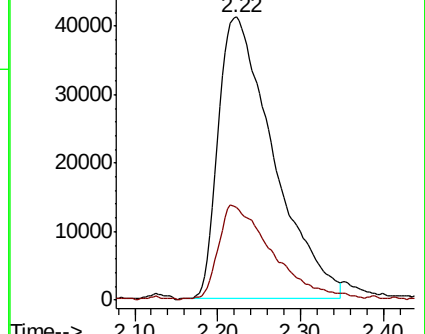
43 100

58 33.0 0.0 27.2#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 4.949 ug/L

RT: 2.31 min Scan# 379

Delta R.T. -0.00 min

Lab File: VV013789.D

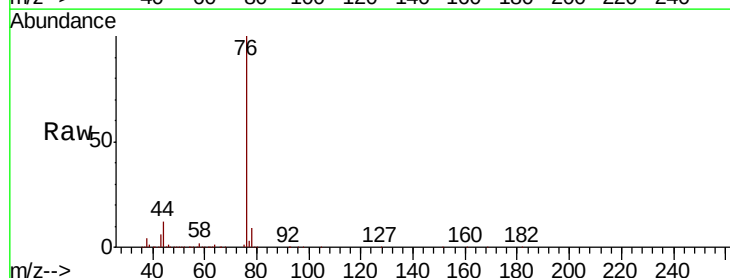
Acq: 26 Nov 2019 16:02

Tgt Ion: 76 Resp: 200124

Ion Ratio Lower Upper

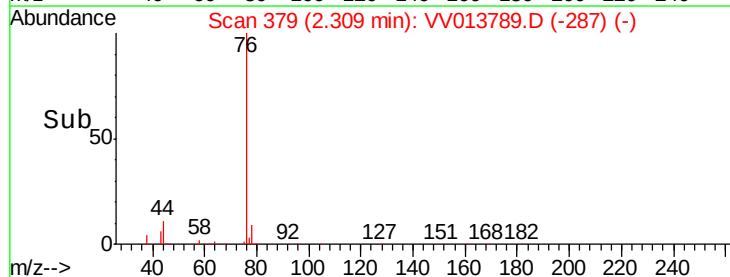
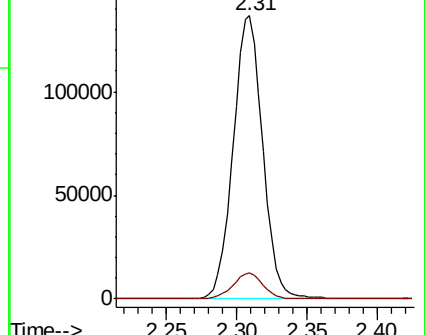
76 100

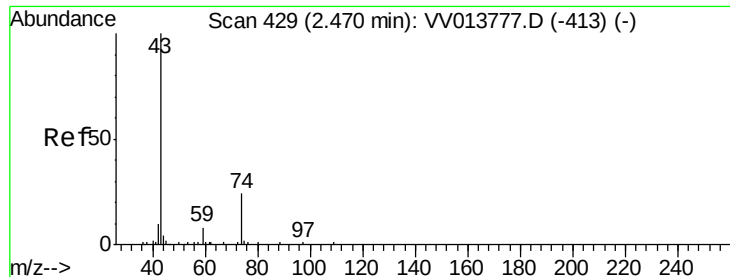
78 9.0 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

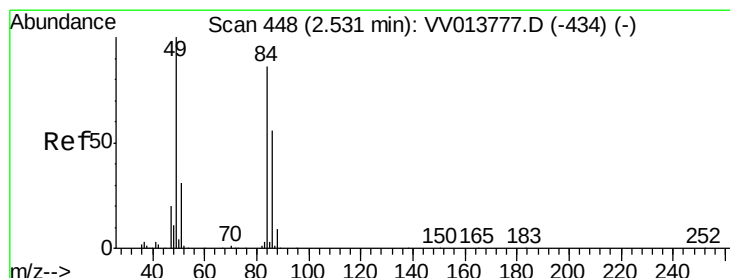
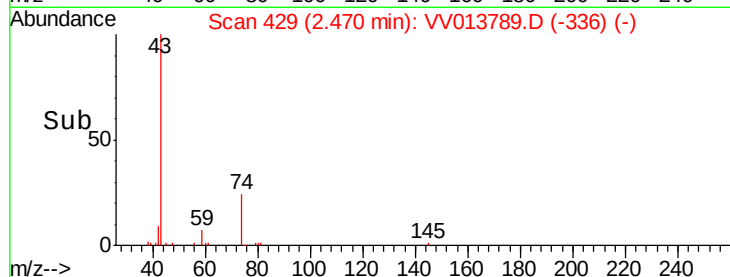
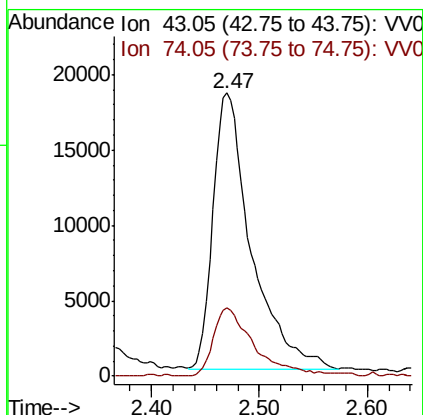
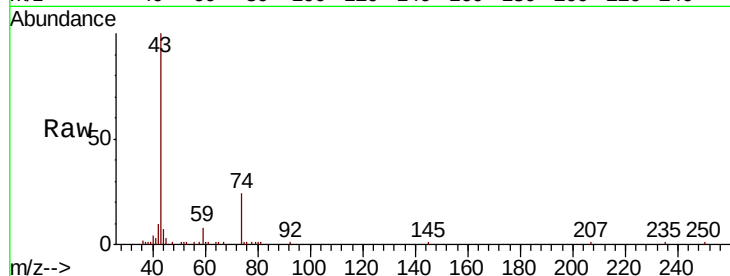




#15
Methvl Acetate
Concen: 6.134 ug/L
RT: 2.47 min Scan# 429
Delta R.T. 0.00 min
Lab File: VV013789.D
Acq: 26 Nov 2019 16:02

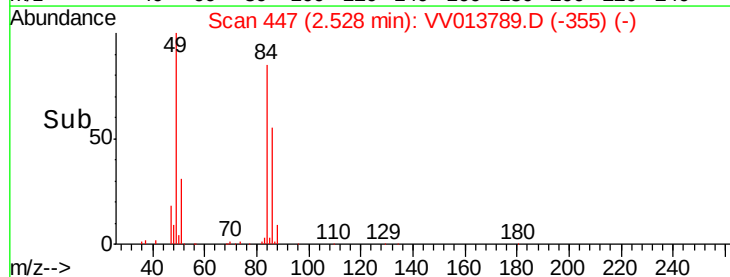
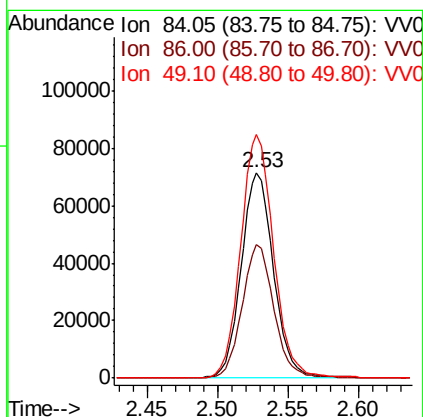
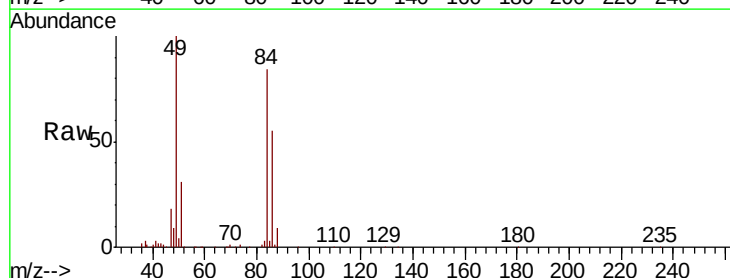
Instrument :
MSVOA_V
ClientSampleId :

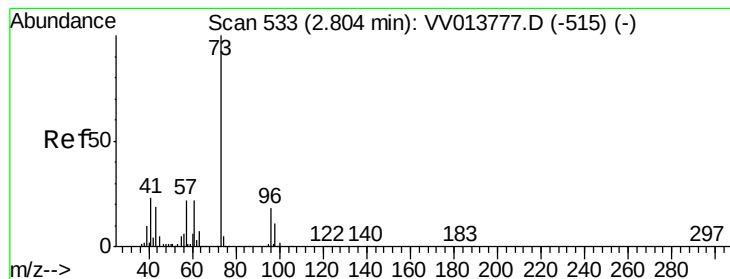
Tot Ion: 43 Resp: 45016
Ion Ratio Lower Upper
43 100
74 26.0 20.5 30.7



#16
Methylene chloride
Concen: 4.792 ug/L
RT: 2.53 min Scan# 447
Delta R.T. -0.00 min
Lab File: VV013789.D
Acq: 26 Nov 2019 16:02

Tgt Ion: 84 Resp: 114984
Ion Ratio Lower Upper
84 100
86 64.6 44.0 81.6
49 118.4 81.5 151.5





#17

Methyl tert-butyl Ether

Concen: 5.509 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

Instrument :

MSVOA_V

ClientSampleId :

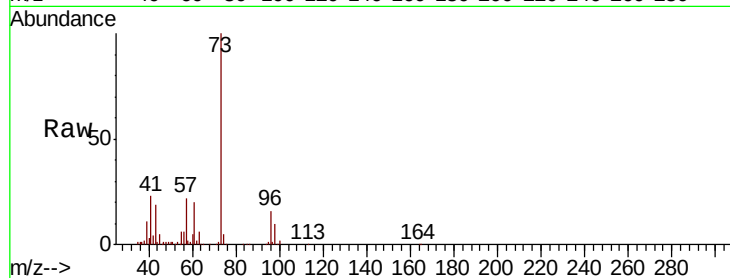
Tot Ion: 73 Resp: 264069

Ion Ratio Lower Upper

73 100

43 19.0 15.5 23.3

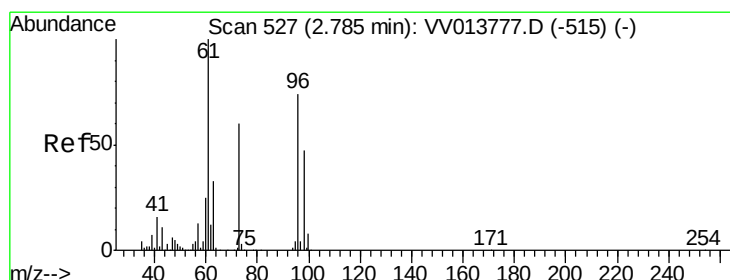
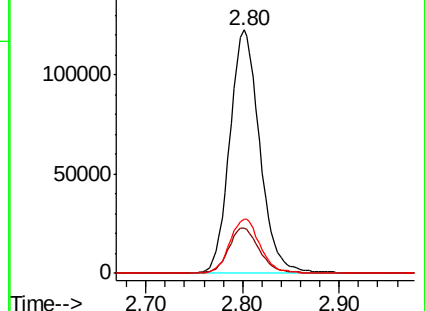
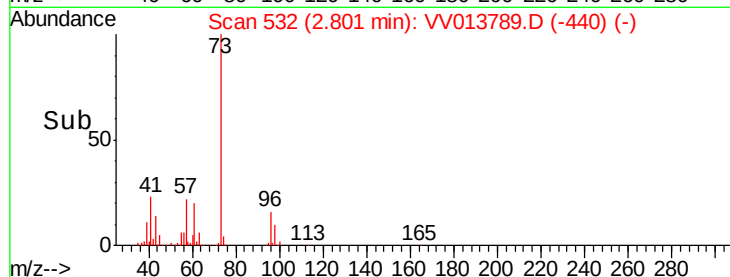
57 22.7 17.5 26.3



Abundance Ion 73.10 (72.80 to 73.80): VV013777.D (-515) (-)

Ion 43.05 (42.75 to 43.75): VV013777.D (-515) (-)

Ion 57.10 (56.80 to 57.80): VV013777.D (-515) (-)



#18

trans-1,2-Dichloroethene

Concen: 5.185 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

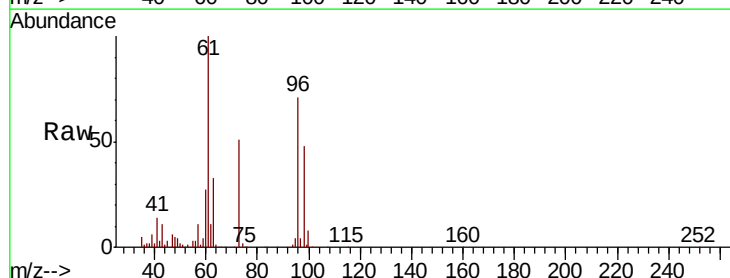
Tgt Ion: 96 Resp: 102553

Ion Ratio Lower Upper

96 100

61 140.3 95.1 176.7

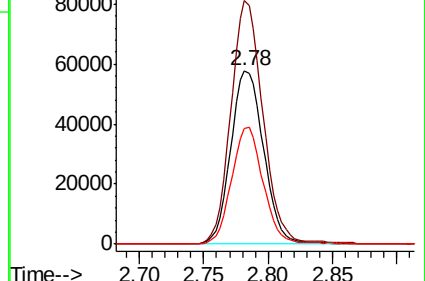
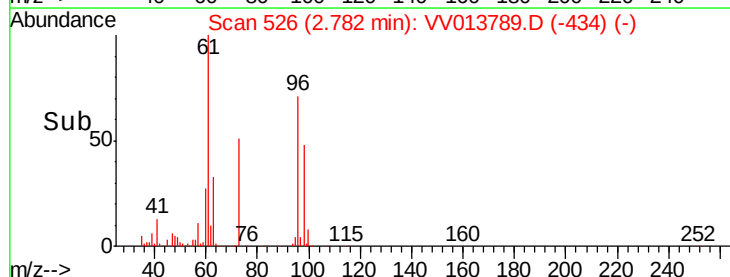
98 66.9 46.5 86.3

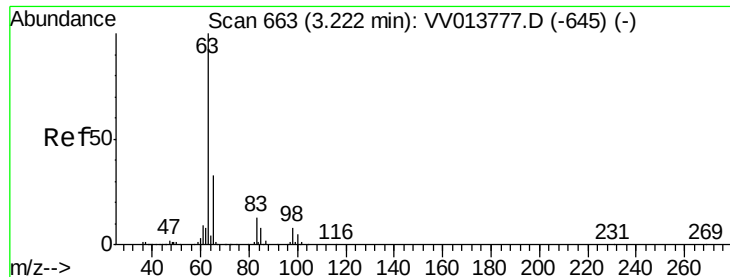


Abundance Ion 96.00 (95.70 to 96.70): VV013777.D (-515) (-)

Ion 61.05 (60.75 to 61.75): VV013777.D (-515) (-)

Ion 97.95 (97.65 to 98.65): VV013777.D (-515) (-)

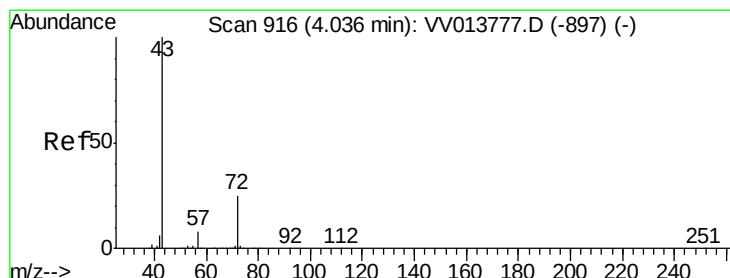
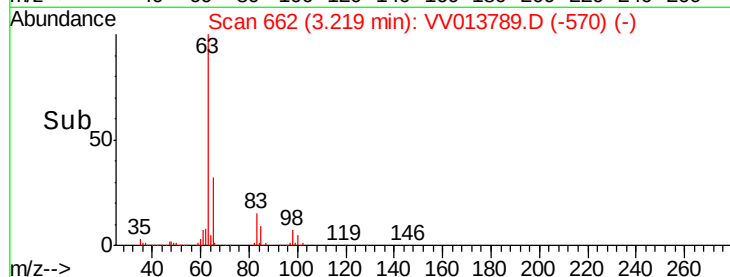
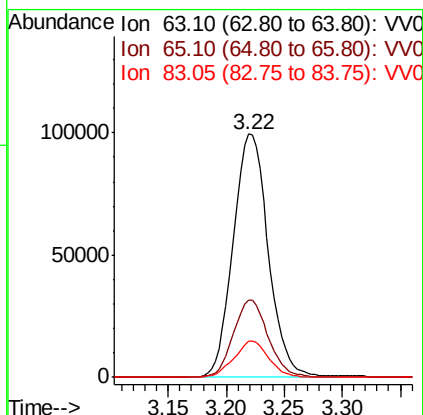
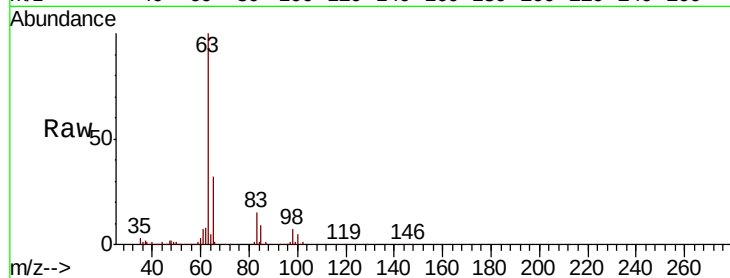




#19
 1,1-Dichloroethane
 Concen: 5.298 ug/L
 RT: 3.22 min Scan# 662
 Delta R.T. -0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

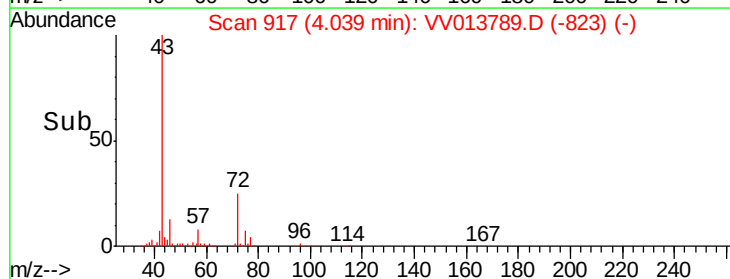
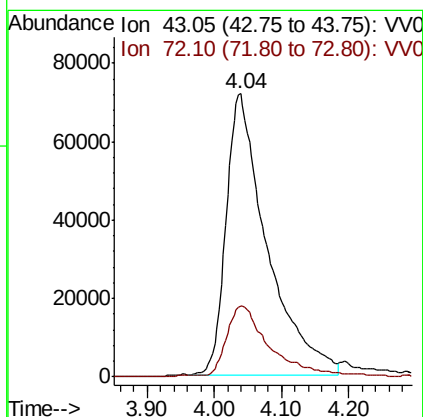
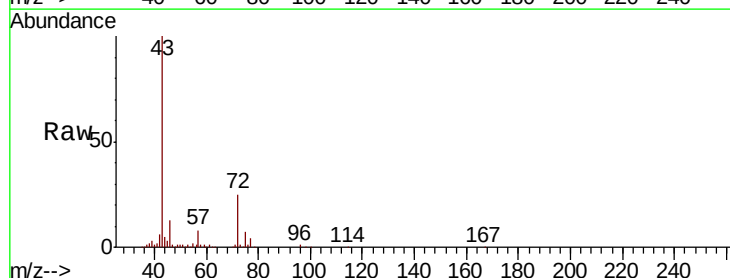
Instrument :
 MSVOA_V
 ClientSampleId :

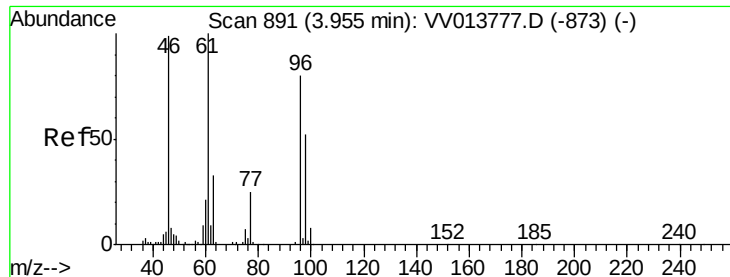
Tot Ion	Ratio	Lower	Upper
63	100		
65	31.8	22.7	42.1
83	14.9	9.2	17.2



#21
 2-Butanone
 Concen: 61.118 ug/L
 RT: 4.04 min Scan# 917
 Delta R.T. 0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.8	12.3	36.9



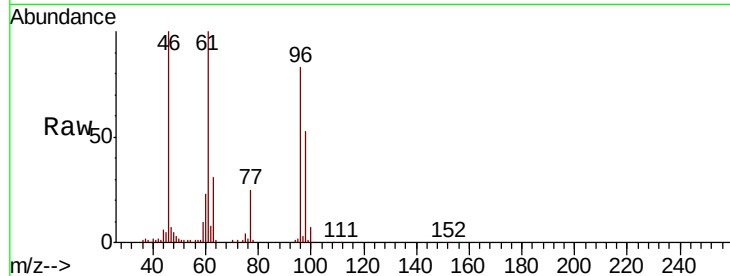


#22

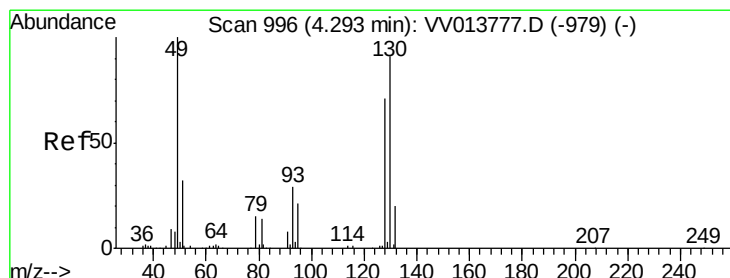
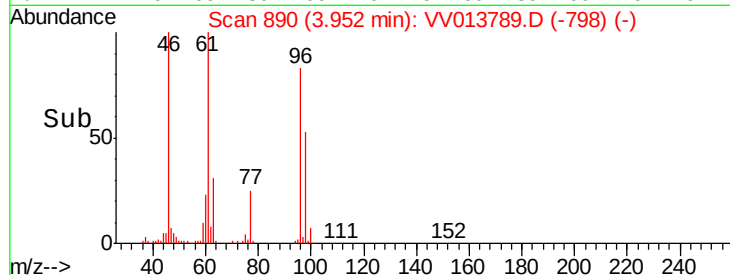
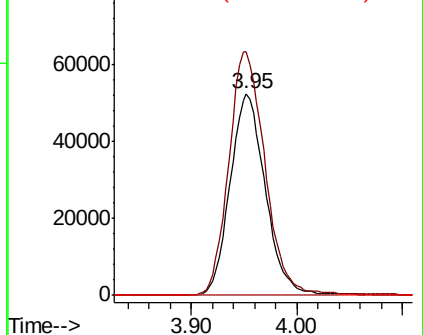
cis-1,2-Dichloroethene
 Concen: 5.227 ug/L
 RT: 3.95 min Scan# 890
 Delta R.T. -0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	120.5	86.1	159.9
68	0.0	0.0	0.0



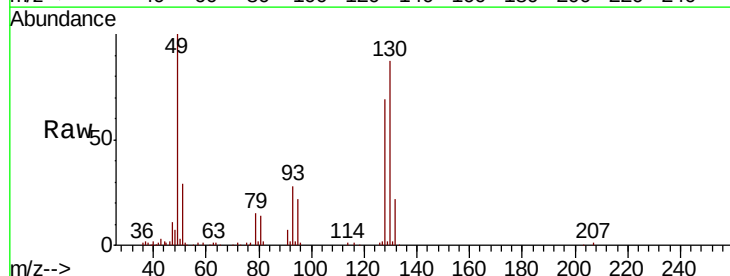
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



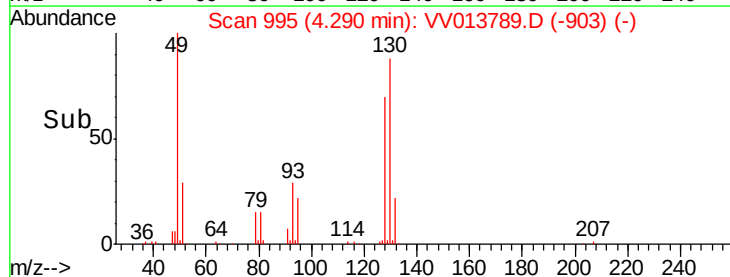
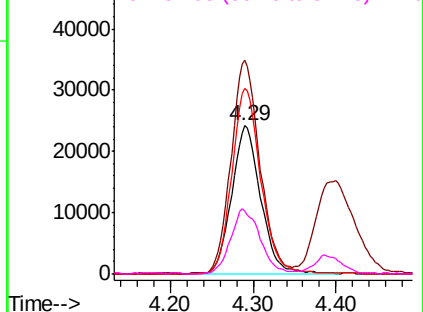
#23

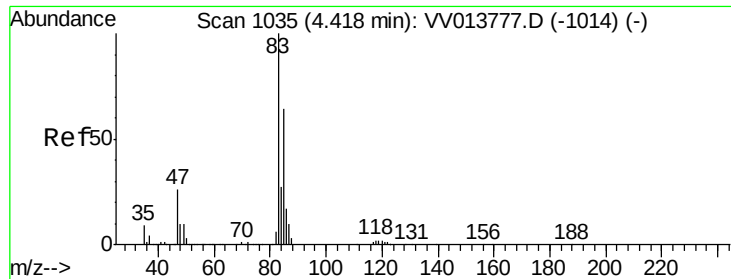
Bromochloromethane
 Concen: 5.792 ug/L
 RT: 4.29 min Scan# 995
 Delta R.T. -0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

Tgt Ion	Ratio	Lower	Upper
128	100		
49	144.2	100.1	185.9
130	125.6	89.0	165.4
51	42.4	36.3	54.5



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VV0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VV0

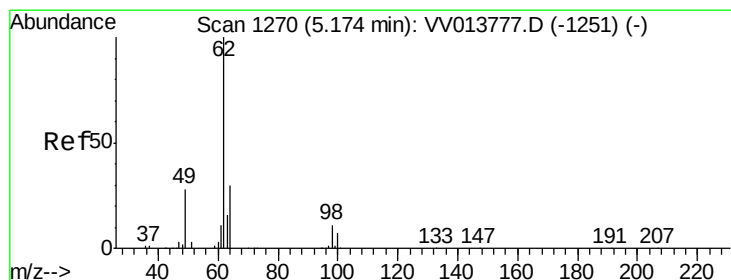
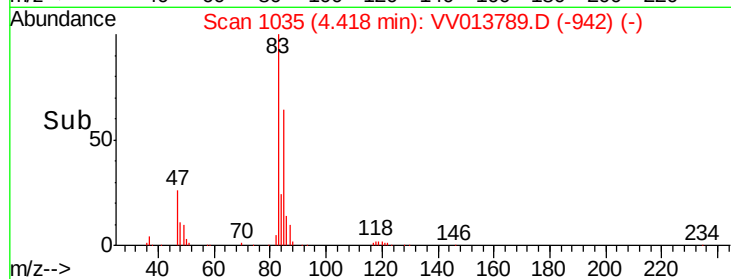
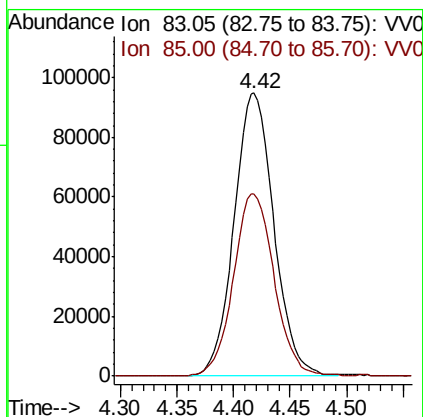
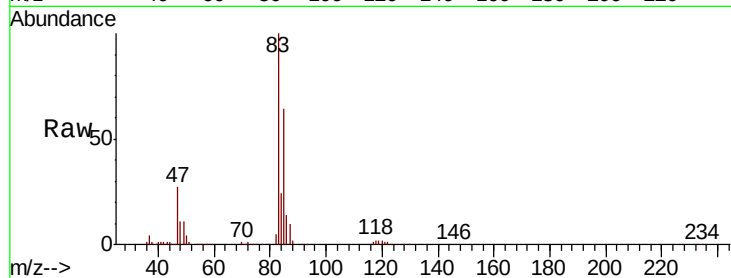




#25
Chloroform
Concen: 5.550 ug/L
RT: 4.42 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VV013789.D
Acq: 26 Nov 2019 16:02

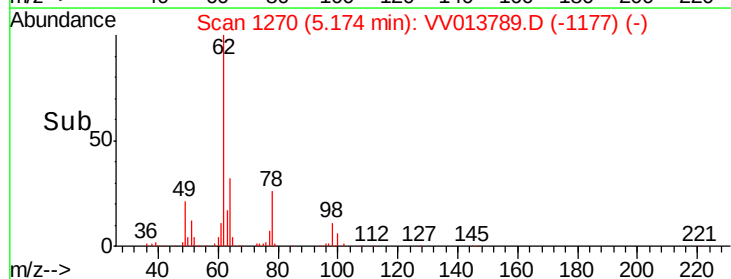
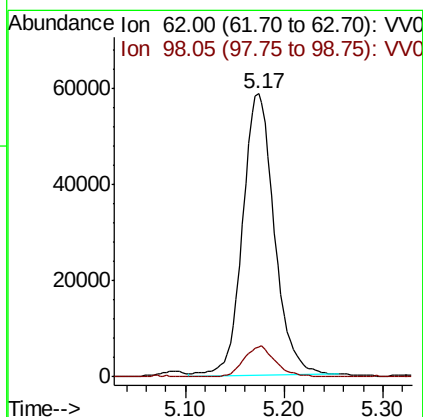
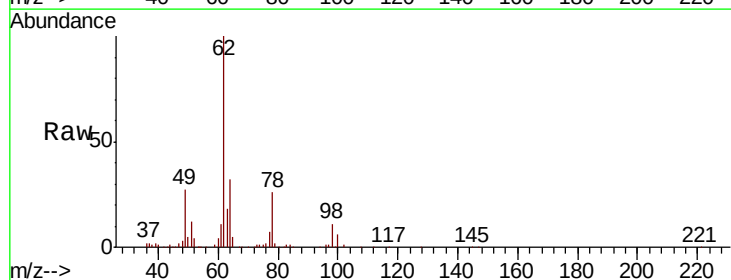
Instrument :
MSVOA_V
ClientSampleId :

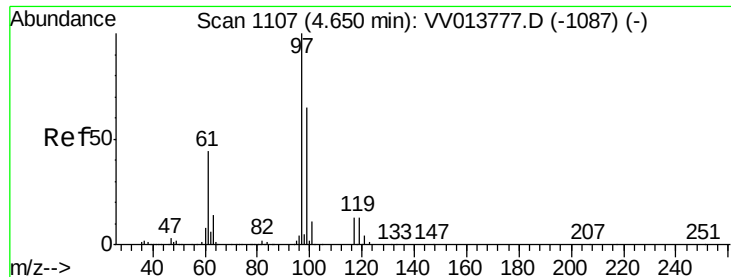
Tot Ion: 83 Resp: 232346
Ion Ratio Lower Upper
83 100
85 64.2 45.1 83.7



#27
1,2-Dichloroethane
Concen: 5.428 ug/L
RT: 5.17 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VV013789.D
Acq: 26 Nov 2019 16:02

Tgt Ion: 62 Resp: 130049
Ion Ratio Lower Upper
62 100
98 10.8 8.2 12.2

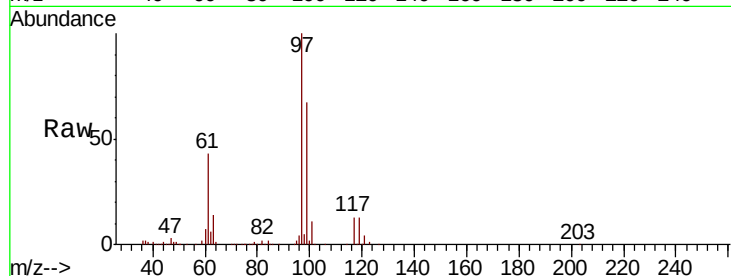




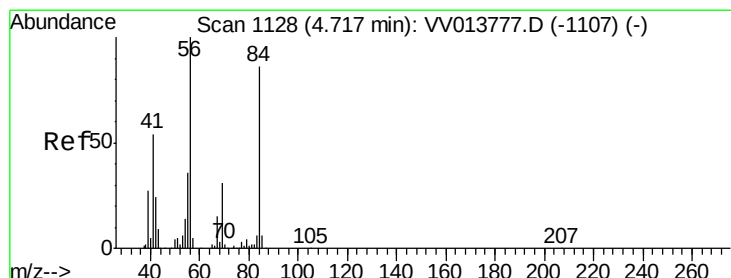
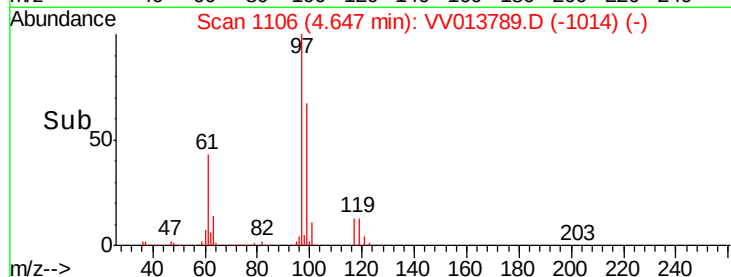
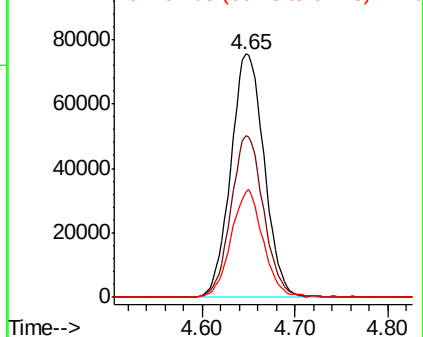
#29
 1,1,1-Trichloroethane
 Concen: 5.485 ug/L
 RT: 4.65 min Scan# 1106
 Delta R.T. -0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 97 Resp: 189037
 Ion Ratio Lower Upper
 97 100
 99 64.7 51.7 77.5
 61 41.8 35.0 52.6

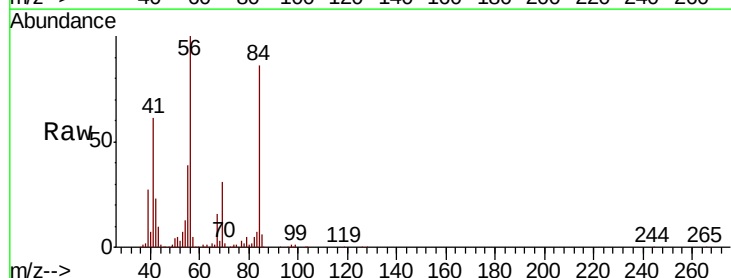


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

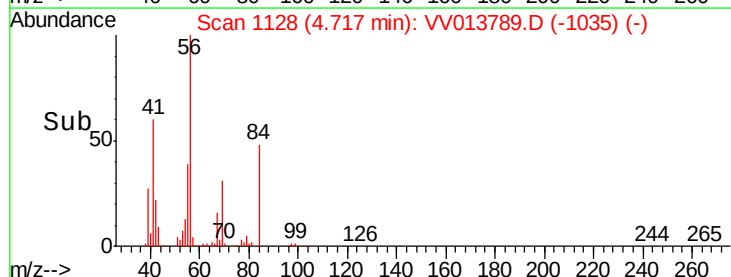
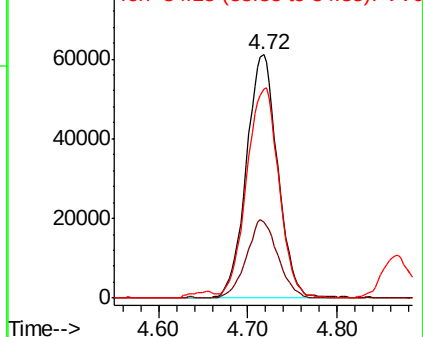


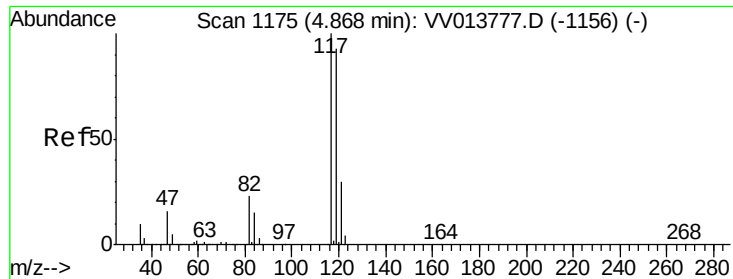
#30
 Cyclohexane
 Concen: 5.187 ug/L
 RT: 4.72 min Scan# 1128
 Delta R.T. 0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

Tgt Ion: 56 Resp: 149354
 Ion Ratio Lower Upper
 56 100
 69 32.2 24.1 36.1
 84 89.7 69.9 104.9



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0

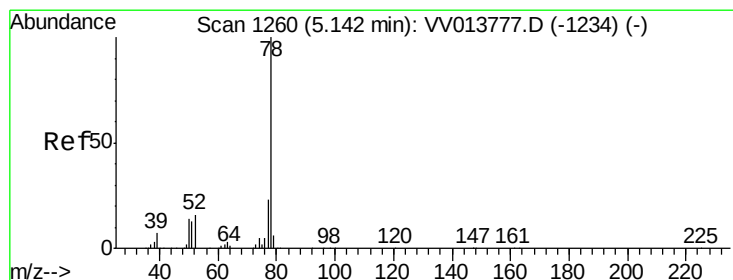
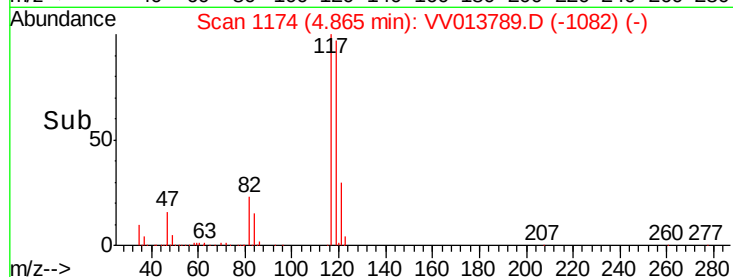
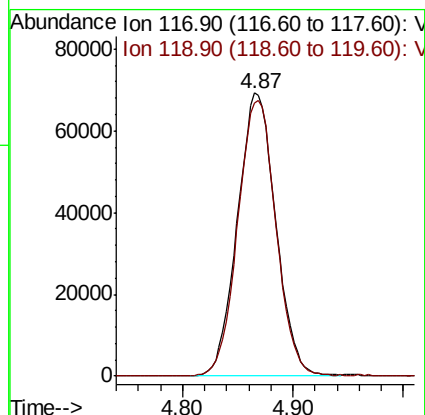
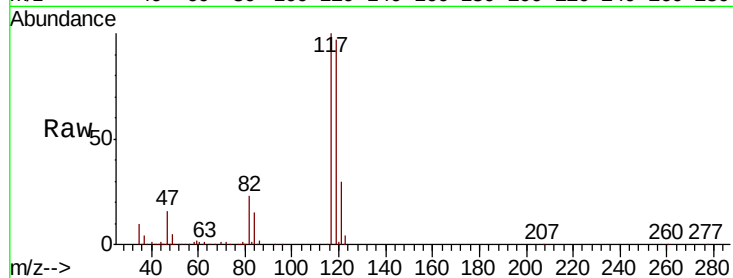




#31
Carbon tetrachloride
Concen: 5.495 ug/L
RT: 4.87 min Scan# 1174
Delta R.T. -0.00 min
Lab File: VV013789.D
Acq: 26 Nov 2019 16:02

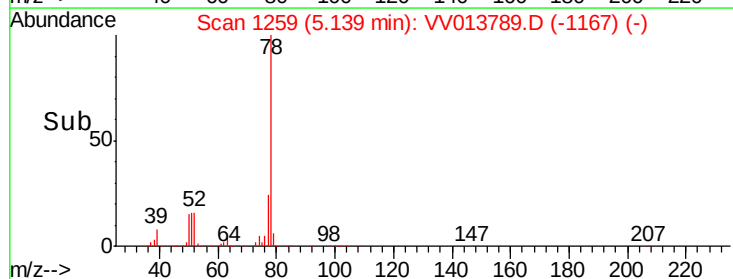
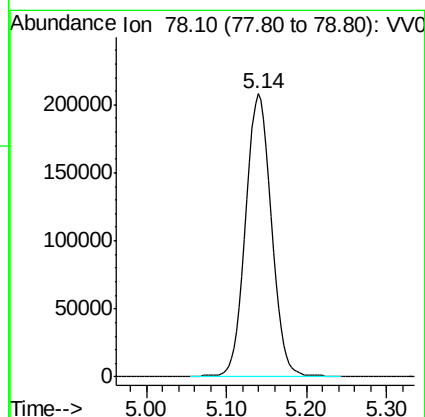
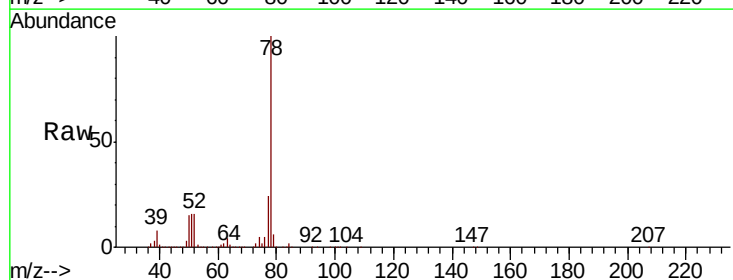
Instrument :
MSVOA_V
ClientSampleId :

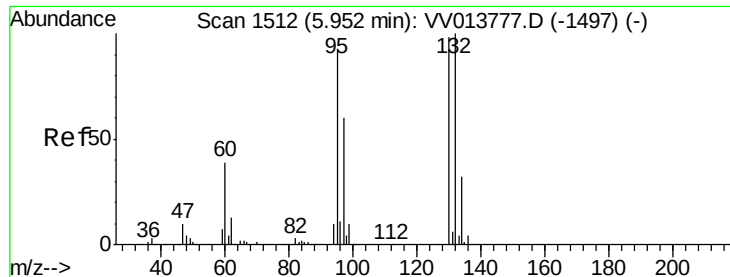
Tot Ion:117 Resp: 166630
Ion Ratio Lower Upper
117 100
119 97.2 76.8 115.2



#33
Benzene
Concen: 5.501 ug/L
RT: 5.14 min Scan# 1259
Delta R.T. -0.00 min
Lab File: VV013789.D
Acq: 26 Nov 2019 16:02

Tgt Ion: 78 Resp: 454604





#34

Trichloroethene

Concen: 5.202 ug/L

RT: 5.95 min Scan# 1512

Delta R.T. 0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 118604

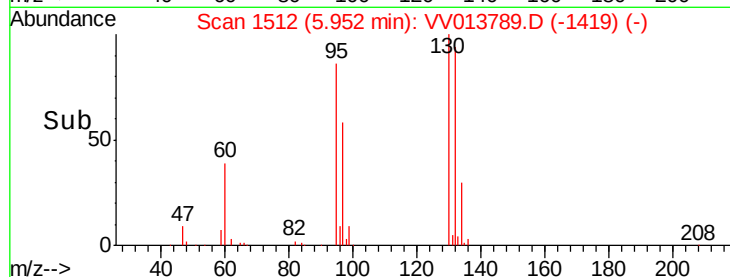
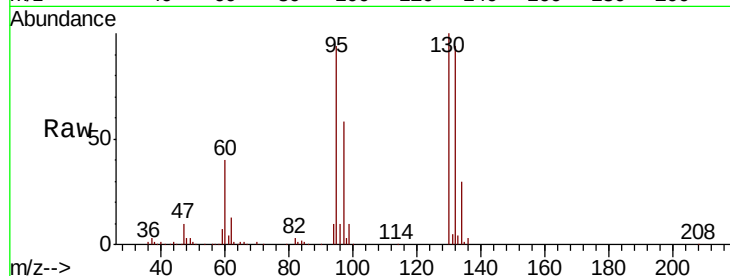
Ion Ratio Lower Upper

95 100

97 62.3 45.6 84.8

132 100.6 70.5 130.9

130 106.6 75.9 140.9

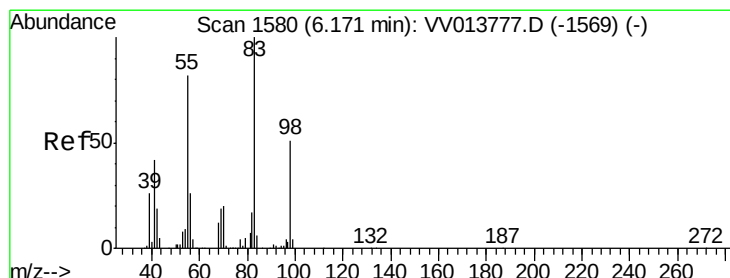
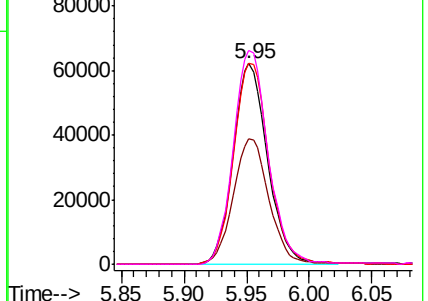


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 5.079 ug/L

RT: 6.17 min Scan# 1579

Delta R.T. -0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

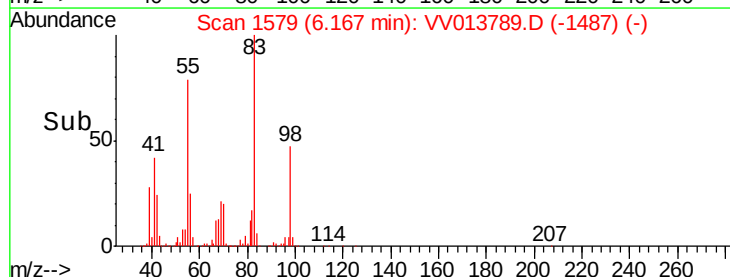
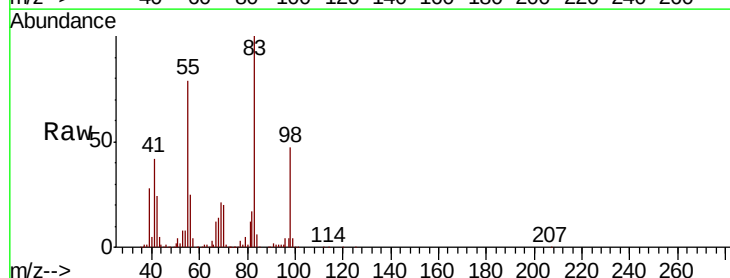
Tgt Ion: 83 Resp: 154515

Ion Ratio Lower Upper

83 100

55 78.6 60.3 90.5

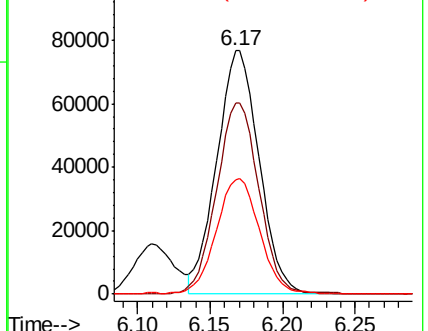
98 49.0 38.1 57.1

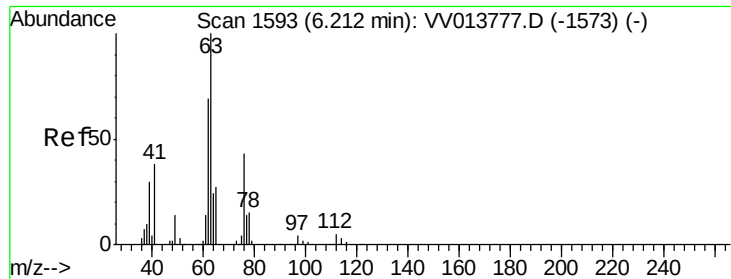


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

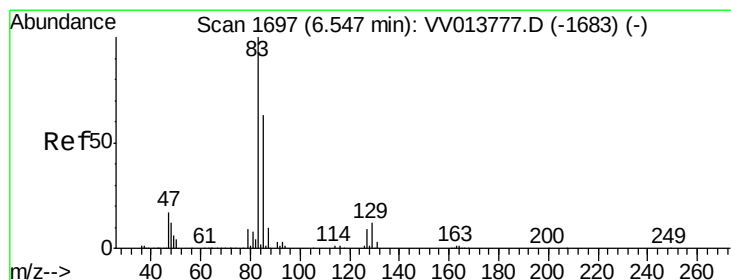
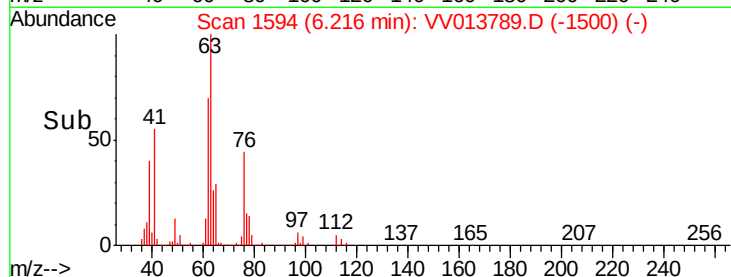
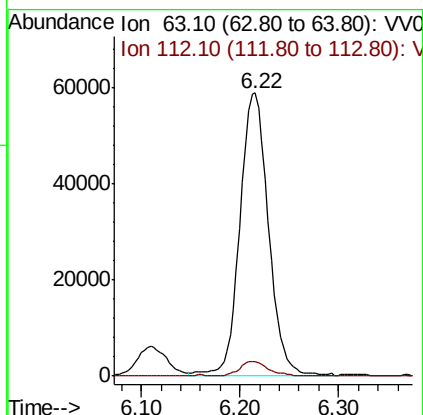
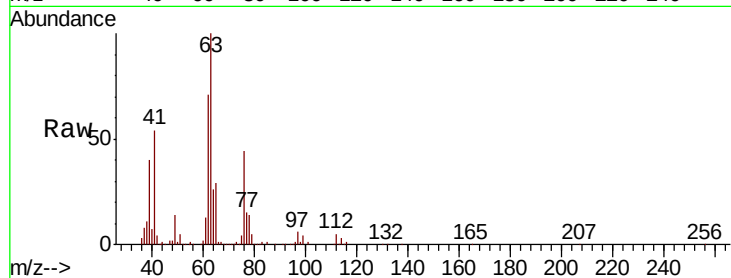




#37
 1,2-Dichloropropane
 Concen: 5.533 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. 0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

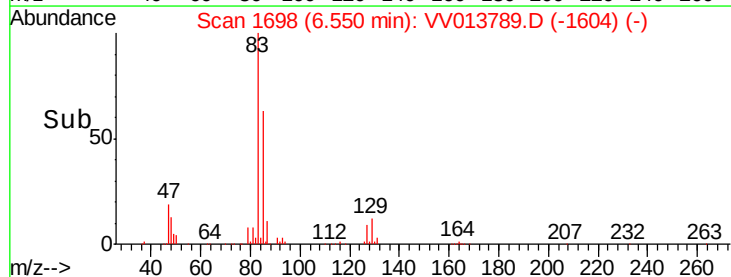
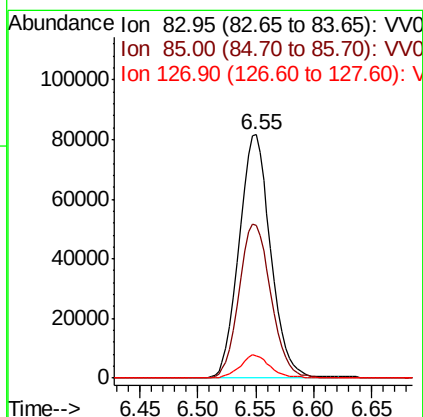
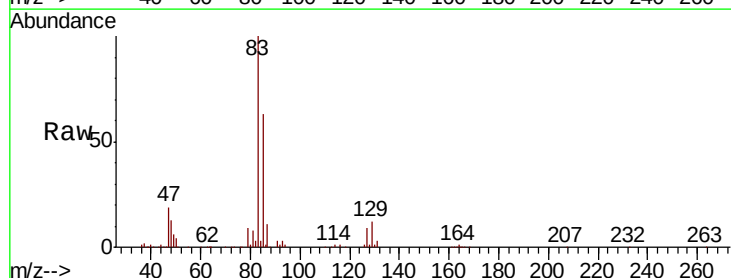
Instrument :
 MSVOA_V
 ClientSampleId :

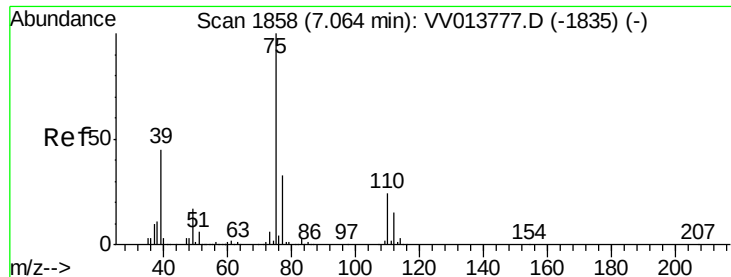
Tot Ion: 63 Resp: 117538
 Ion Ratio Lower Upper
 63 100
 112 5.2 4.4 6.6



#38
 Bromodichloromethane
 Concen: 5.514 ug/L
 RT: 6.55 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

Tgt Ion: 83 Resp: 154537
 Ion Ratio Lower Upper
 83 100
 85 62.5 46.1 85.5
 127 9.3 7.5 11.3

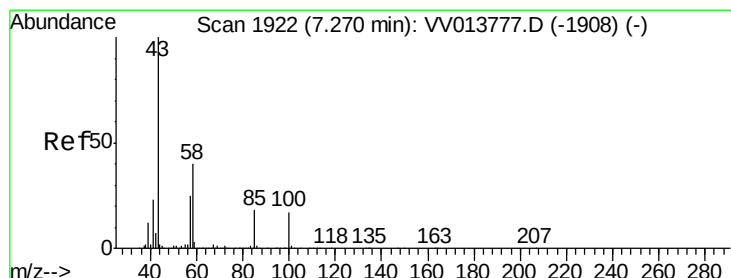
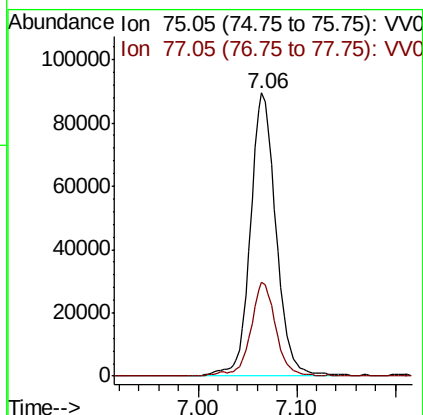
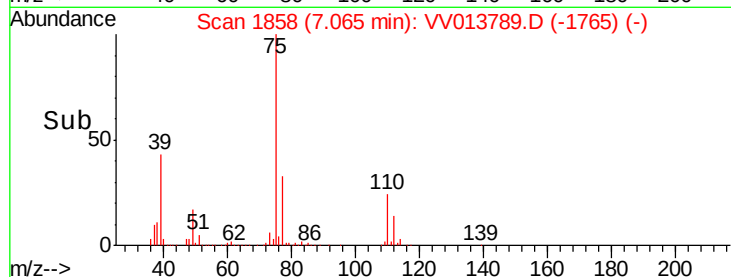
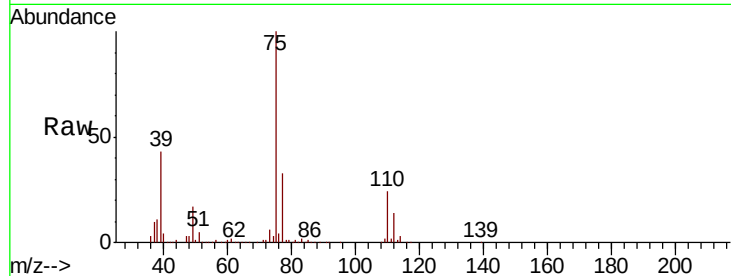




#39
 cis-1,3-Dichloropropene
 Concen: 5.307 ug/L
 RT: 7.06 min Scan# 1858
 Delta R.T. 0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

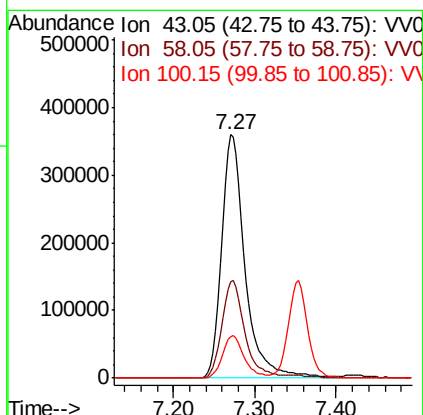
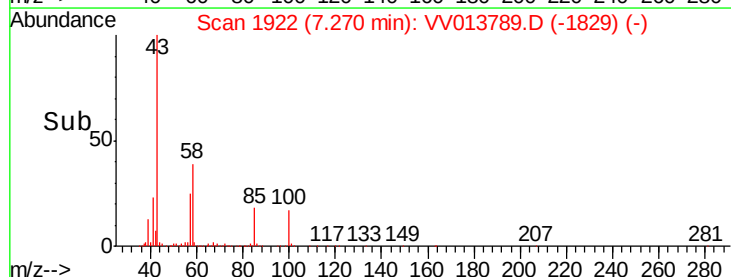
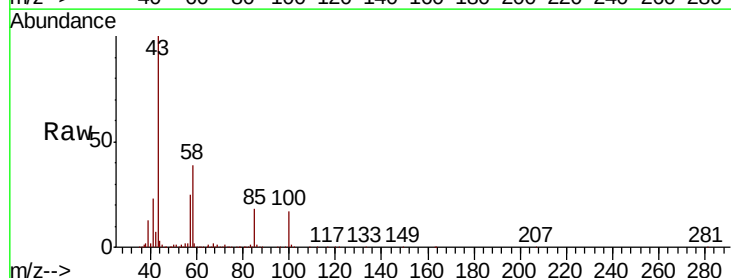
Instrument :
 MSVOA_V
 ClientSampleId :

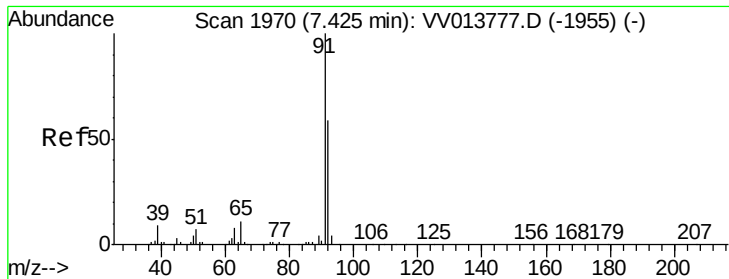
Tot Ion: 75 Resp: 159948
 Ion Ratio Lower Upper
 75 100
 77 33.1 22.5 41.9



#40
 4-Methyl-2-pentanone
 Concen: 59.234 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

Tgt Ion: 43 Resp: 734132
 Ion Ratio Lower Upper
 43 100
 58 40.4 32.3 48.5
 100 16.2 12.7 19.1





#42

Toluene

Concen: 5.366 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. 0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

Instrument :

MSVOA_V

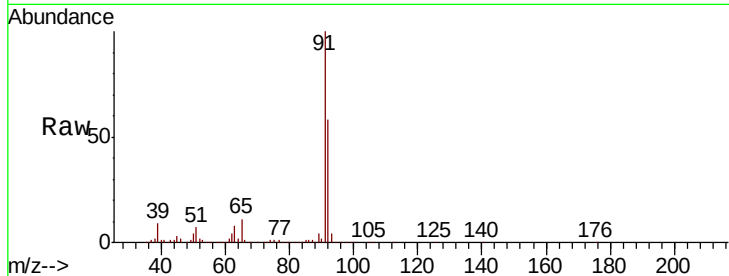
ClientSampleId :

Tot Ion: 91 Resp: 475697

Ion Ratio Lower Upper

91 100

92 58.0 41.1 76.3



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.42

300000

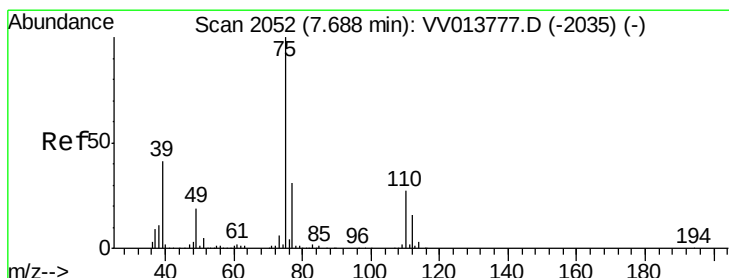
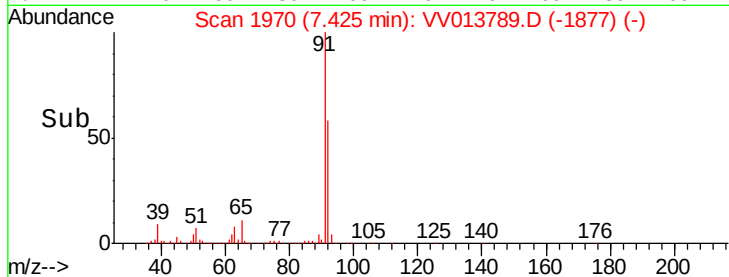
200000

100000

0

7.40 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.308 ug/L

RT: 7.69 min Scan# 2052

Delta R.T. 0.00 min

Lab File: VV013789.D

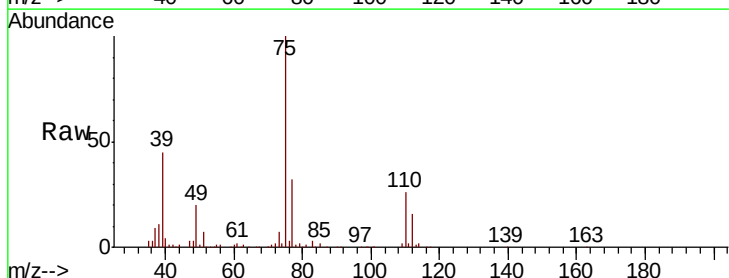
Acq: 26 Nov 2019 16:02

Tgt Ion: 75 Resp: 125226

Ion Ratio Lower Upper

75 100

77 31.7 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.69

80000

60000

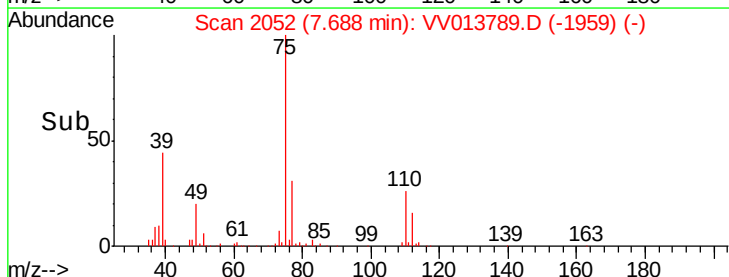
40000

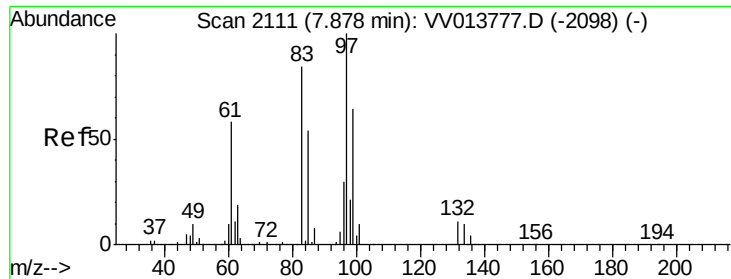
20000

0

7.60 7.70 7.80

Time-->

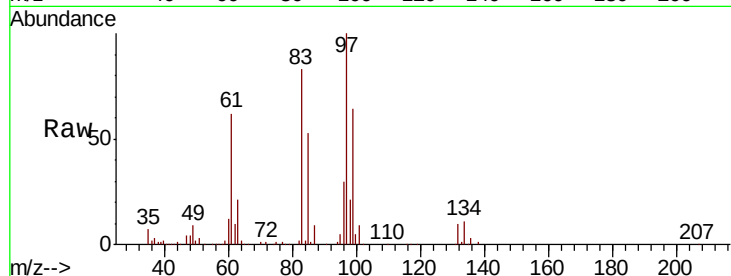




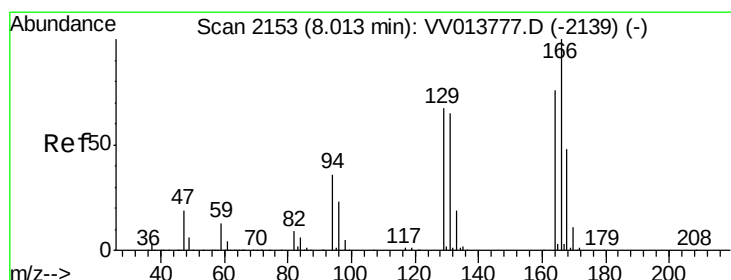
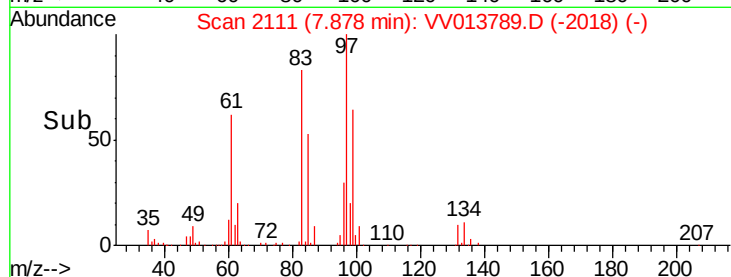
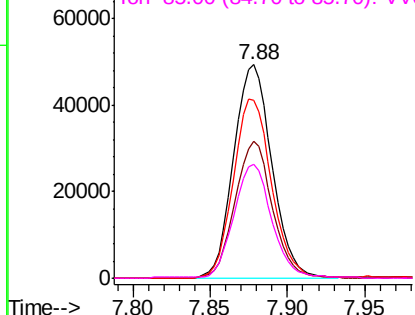
#45
1,1,2-Trichloroethane
Concen: 5.612 ug/L
RT: 7.88 min Scan# 2111
Delta R.T. 0.00 min
Lab File: VV013789.D
Acq: 26 Nov 2019 16:02

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 97 Resp: 84949
Ion Ratio Lower Upper
97 100
99 64.2 44.2 82.0
83 83.3 59.7 110.9
85 53.2 38.3 71.1

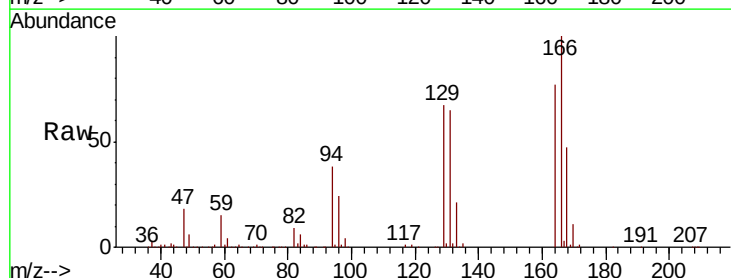


Abundance Ion 96.95 (96.65 to 97.65): VV0
Ion 99.05 (98.75 to 99.75): VV0
Ion 82.95 (82.65 to 83.65): VV0
Ion 85.00 (84.70 to 85.70): VV0

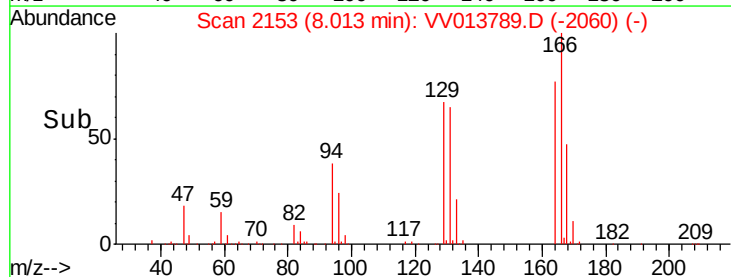
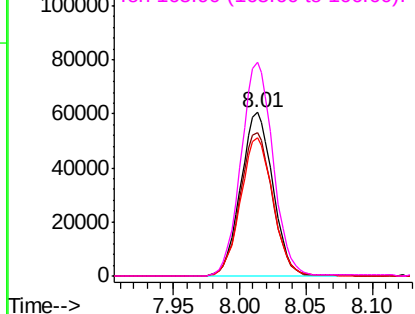


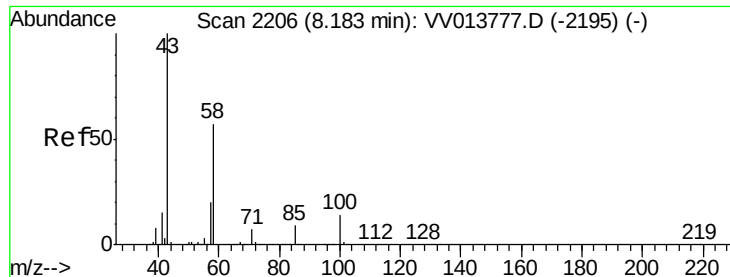
#47
Tetrachloroethene
Concen: 5.165 ug/L
RT: 8.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VV013789.D
Acq: 26 Nov 2019 16:02

Tgt Ion: 164 Resp: 102253
Ion Ratio Lower Upper
164 100
129 87.8 60.3 112.1
131 84.6 59.9 111.3
166 130.6 89.1 165.5



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

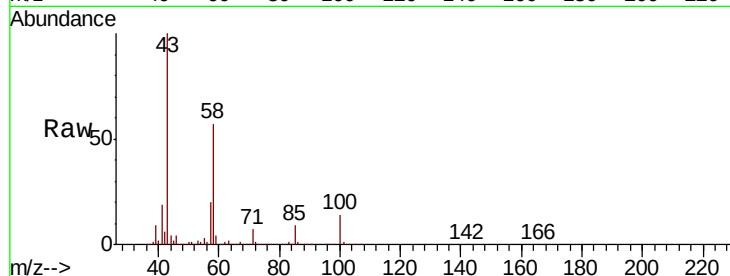




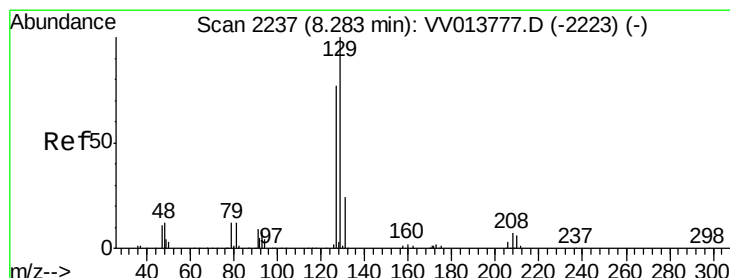
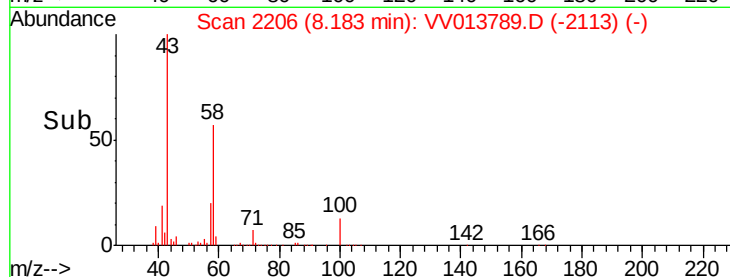
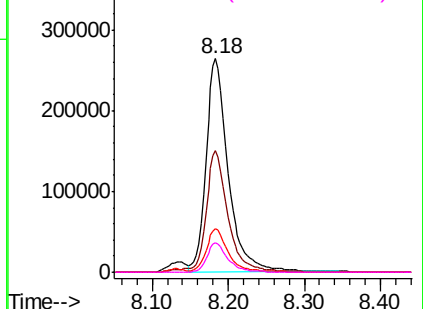
#48
2-Hexanone
Concen: 60.451 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV013789.D
Acq: 26 Nov 2019 16:02

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.9	43.2	64.8
57	19.4	15.4	23.2
100	12.9	10.4	15.6

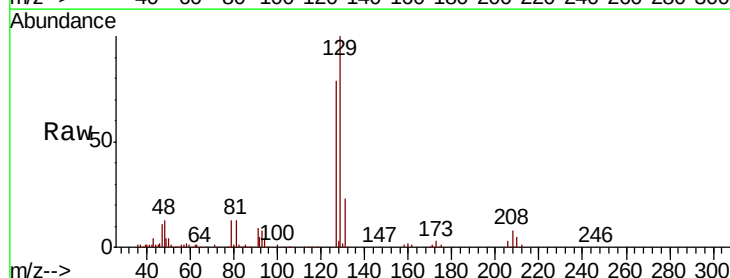


Abundance Ion 43.05 (42.75 to 43.75): VV013777.D (-2195) (-)
Ion 58.05 (57.75 to 58.75): VV013777.D (-2195) (-)
Ion 57.20 (56.90 to 57.90): VV013777.D (-2195) (-)
Ion 100.15 (99.85 to 100.85): VV013777.D (-2195) (-)

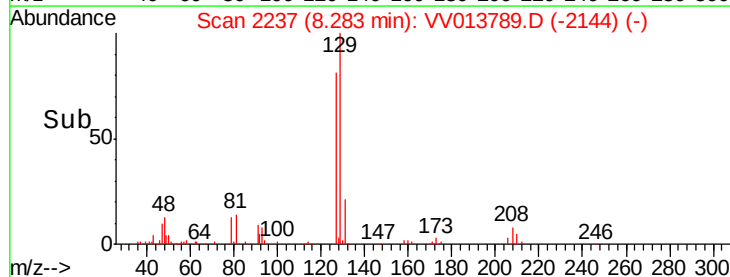
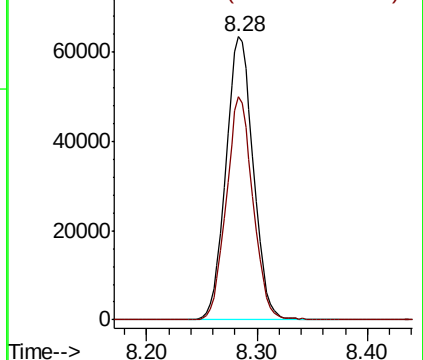


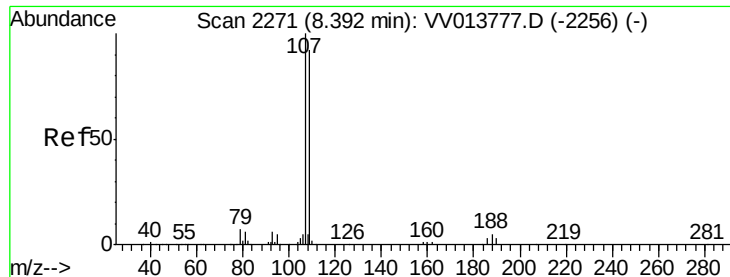
#49
Dibromochloromethane
Concen: 5.635 ug/L
RT: 8.28 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VV013789.D
Acq: 26 Nov 2019 16:02

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.0	55.7	103.5



Abundance Ion 128.95 (128.65 to 129.65): VV013777.D (-2223) (-)
Ion 126.90 (126.60 to 127.60): VV013777.D (-2223) (-)

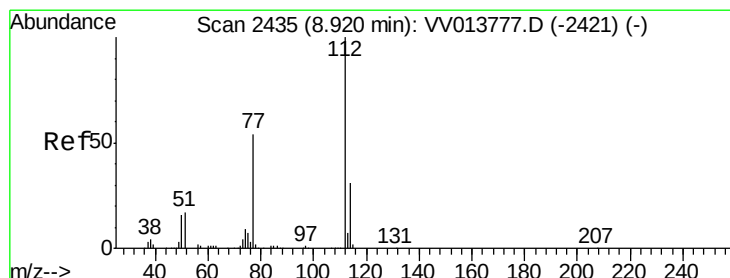
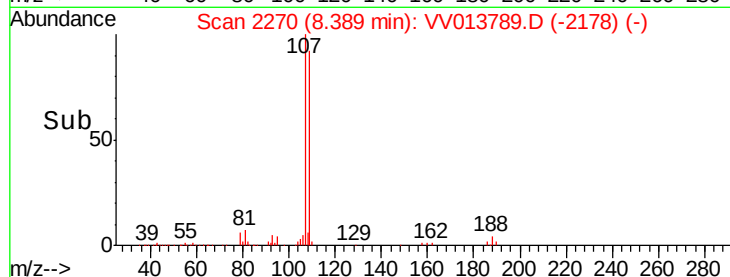
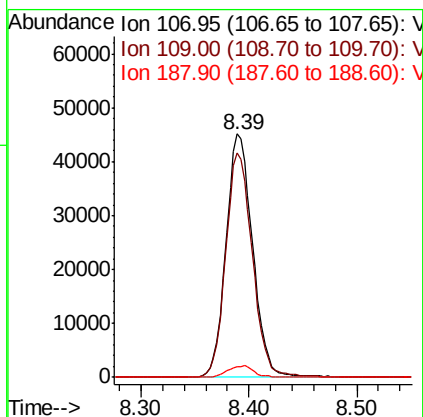
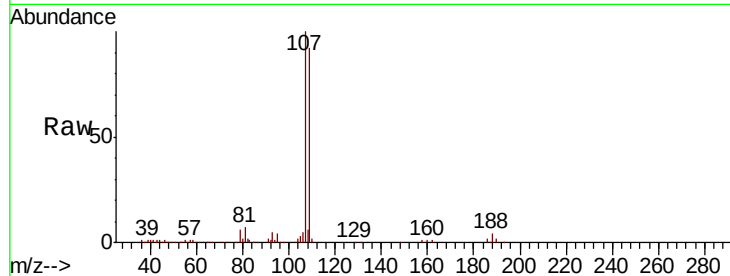




#50
 1,2-Dibromoethane
 Concen: 5.635 ug/L
 RT: 8.39 min Scan# 2270
 Delta R.T. -0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

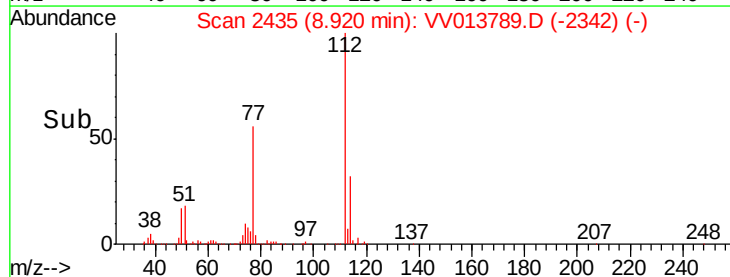
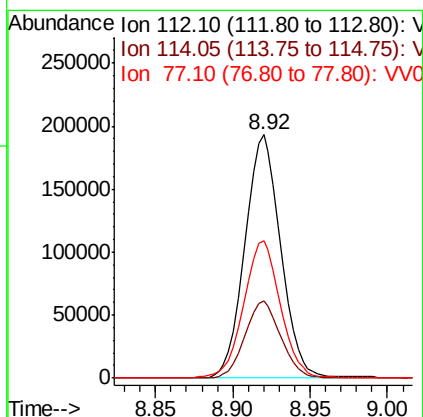
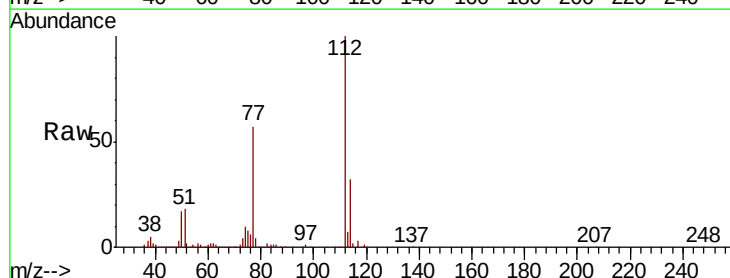
Instrument :
 MSVOA_V
 ClientSampleId :

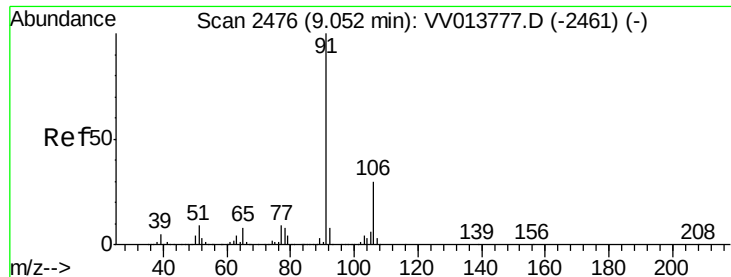
Tot Ion:107 Resp: 77252
 Ion Ratio Lower Upper
 107 100
 109 92.3 65.2 121.0
 188 4.2 4.2 6.2



#51
 Chlorobenzene
 Concen: 5.045 ug/L
 RT: 8.92 min Scan# 2435
 Delta R.T. 0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

Tgt Ion:112 Resp: 311202
 Ion Ratio Lower Upper
 112 100
 114 31.8 21.8 40.6
 77 56.5 44.2 66.4





#52

Ethylbenzene

Concen: 5.189 ug/L

RT: 9.05 min Scan# 2475

Delta R.T. -0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

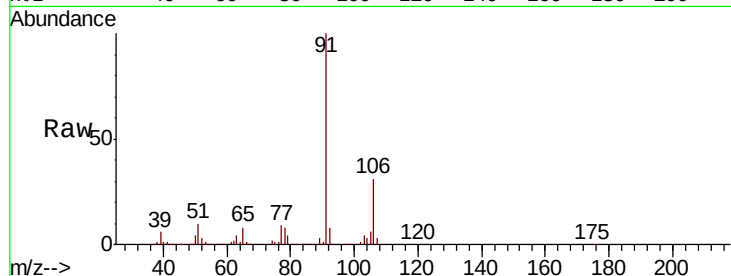
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 499716

Ion Ratio Lower Upper

91 100

106 31.2 22.1 41.1



Abundance Ion 91.15 (90.85 to 91.85): VV013777.D (-2461) (-)

Ion 106.15 (105.85 to 106.85): VV013777.D (-2461) (-)

9.05

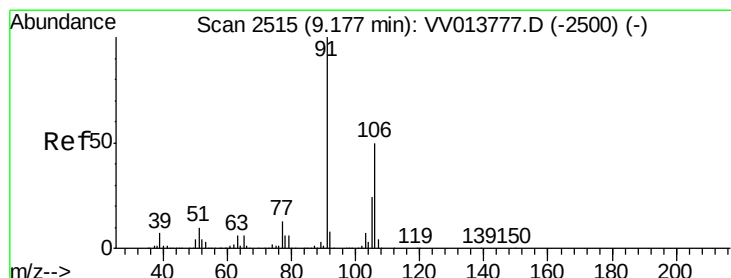
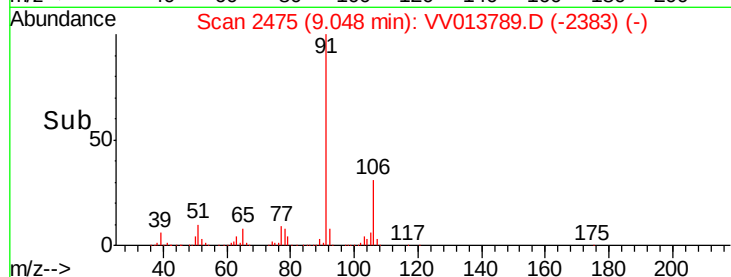
300000

200000

100000

0

Time--> 8.95 9.00 9.05 9.10 9.15



#53

m,p-xylene

Concen: 5.253 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. 0.00 min

Lab File: VV013789.D

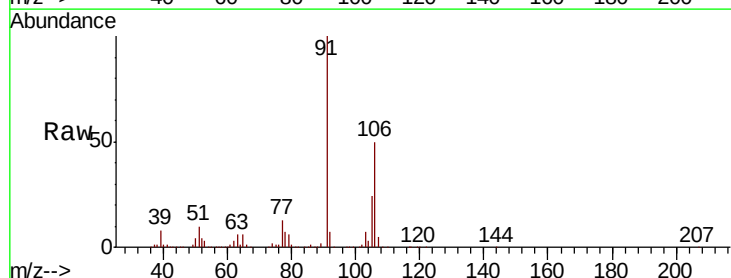
Acq: 26 Nov 2019 16:02

Tgt Ion: 106 Resp: 192863

Ion Ratio Lower Upper

106 100

91 200.8 139.9 259.9



Abundance Ion 106.15 (105.85 to 106.85): VV013777.D (-2500) (-)

Ion 91.15 (90.85 to 91.85): VV013777.D (-2500) (-)

9.18

250000

200000

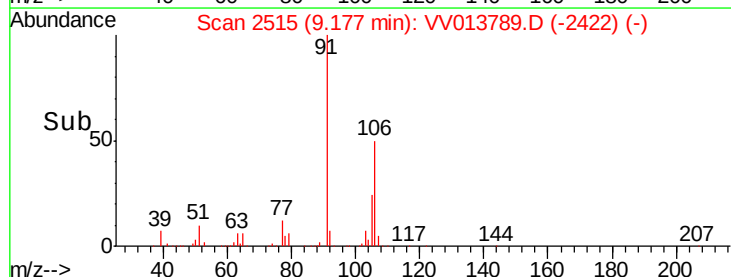
150000

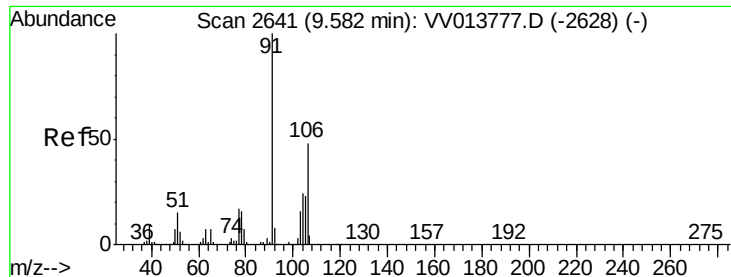
100000

50000

0

Time--> 9.10 9.15 9.20 9.25 9.30





#54

o-xylene

Concen: 5.229 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

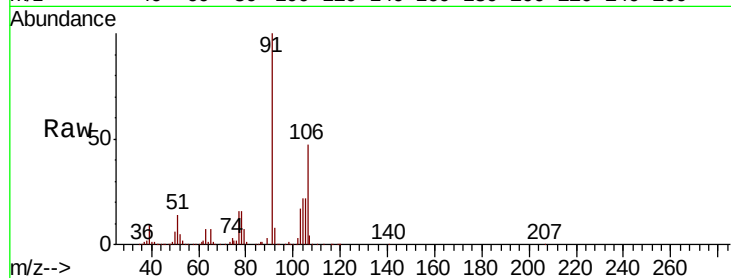
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 187420

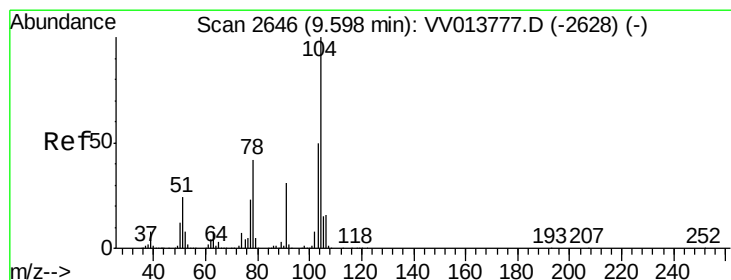
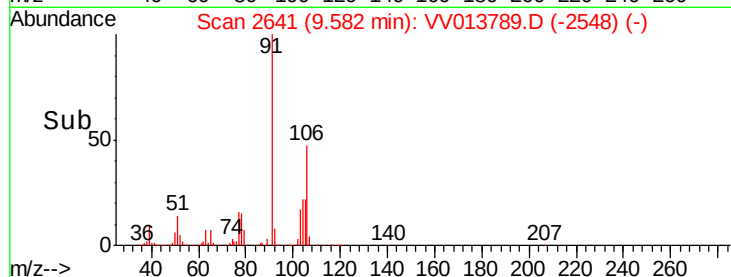
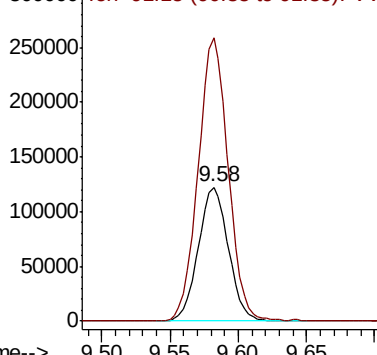
Ion Ratio Lower Upper

106 100

91 211.7 145.5 270.3



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 5.306 ug/L

RT: 9.60 min Scan# 2646

Delta R.T. 0.00 min

Lab File: VV013789.D

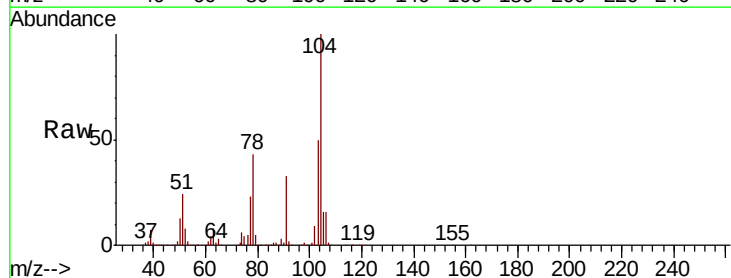
Acq: 26 Nov 2019 16:02

Tgt Ion:104 Resp: 328345

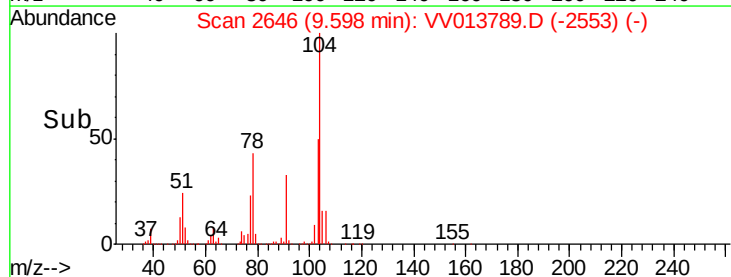
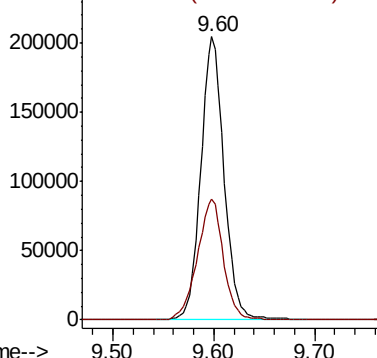
Ion Ratio Lower Upper

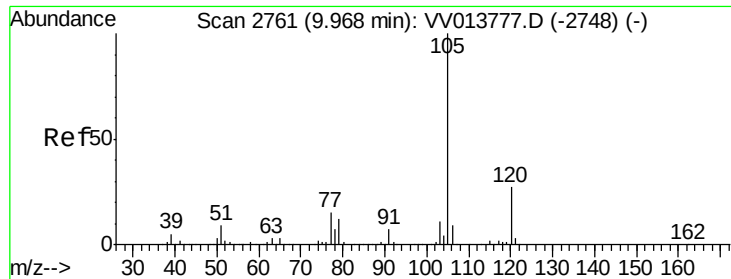
104 100

78 42.9 31.0 57.6



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 5.104 ug/L

RT: 9.97 min Scan# 2761

Delta R.T. 0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

Instrument :

MSVOA_V

ClientSampleId :

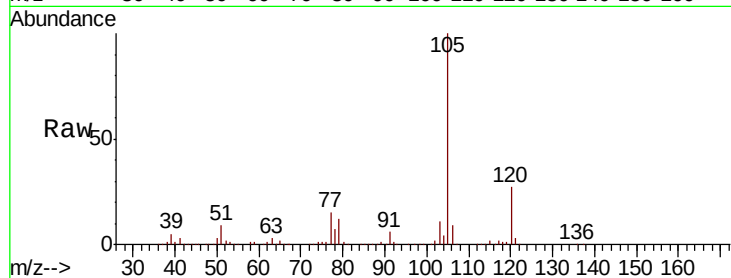
Tot Ion:105 Resp: 498531

Ion Ratio Lower Upper

105 100

120 26.8 21.3 31.9

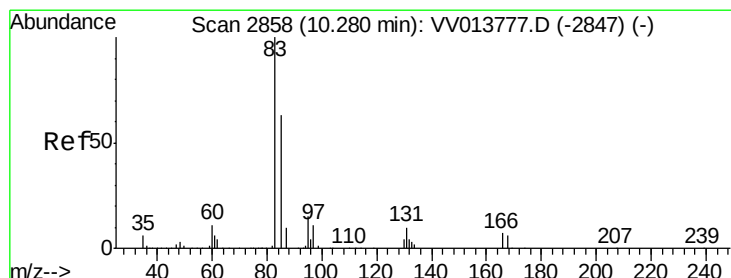
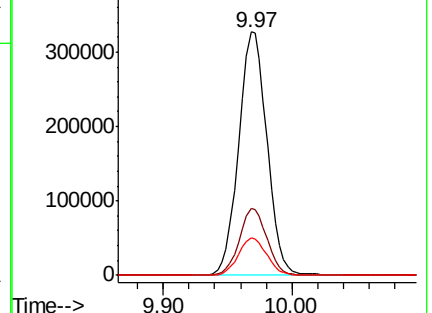
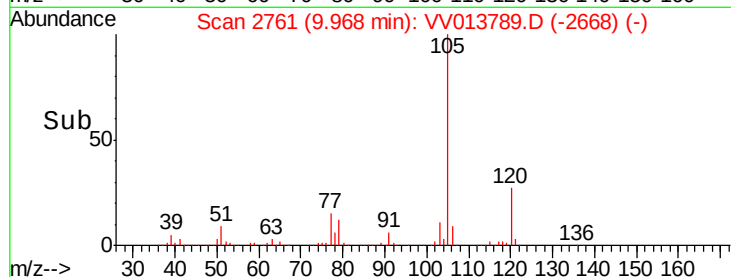
77 15.2 12.1 18.1



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: 5.957 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. 0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

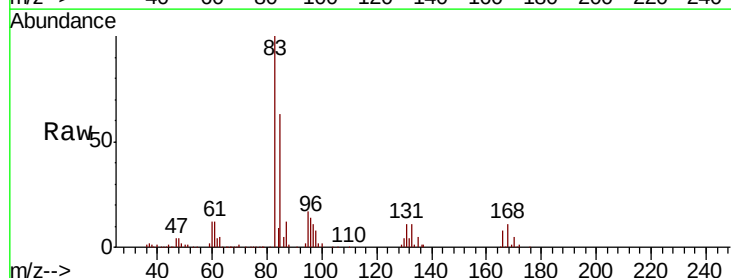
Tgt Ion: 83 Resp: 99075

Ion Ratio Lower Upper

83 100

85 63.2 45.1 83.7

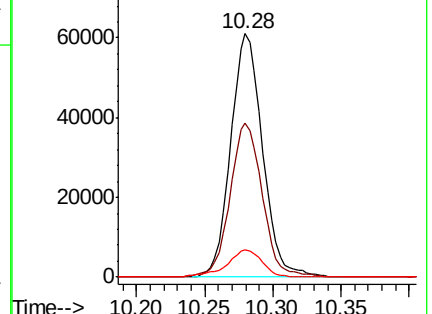
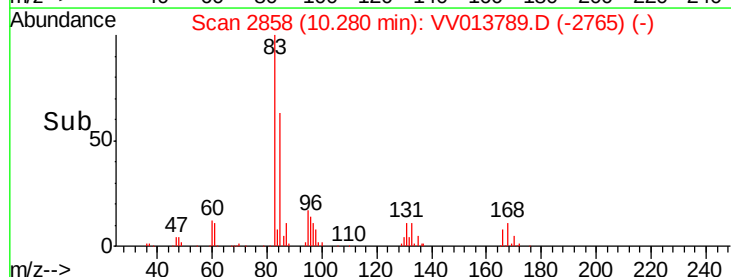
131 11.0 9.3 13.9

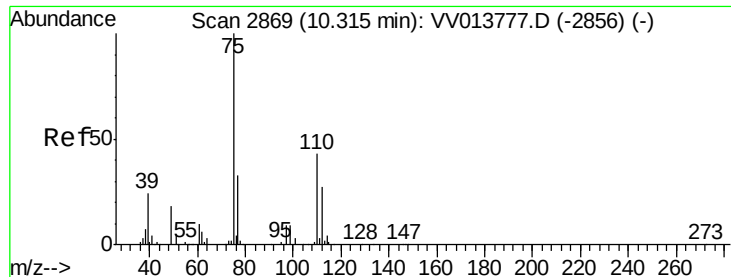


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.688 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

Instrument :

MSVOA_V

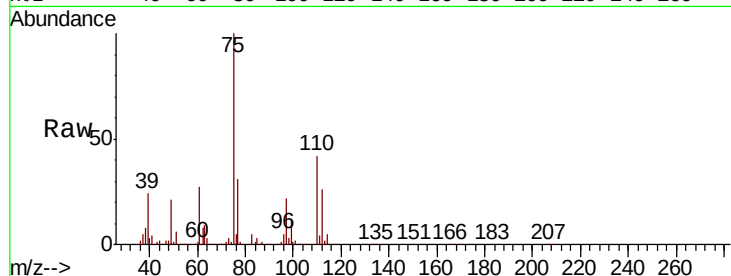
ClientSampleId :

Tot Ion: 75 Resp: 74166

Ion Ratio Lower Upper

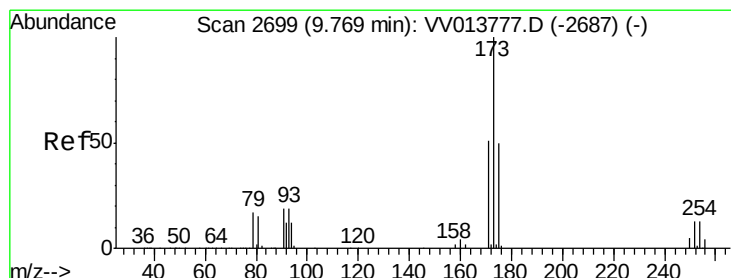
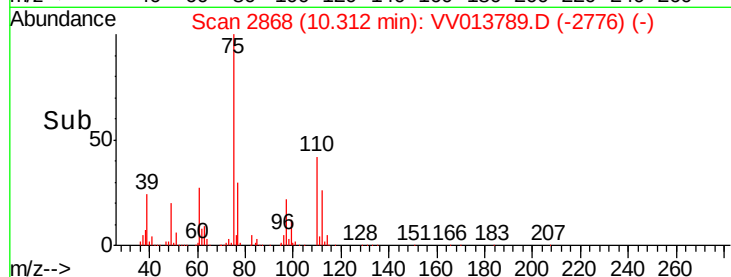
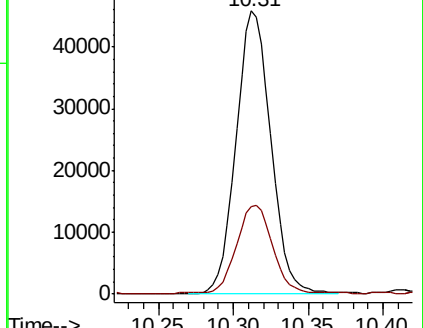
75 100

77 31.5 25.7 38.5



Abundance Ion 75.00 (74.70 to 75.70): VV013777.D (-2856) (-)

Ion 77.00 (76.70 to 77.70): VV013777.D (-2856) (-)



#61

Bromoform

Concen: 5.952 ug/L

RT: 9.77 min Scan# 2699

Delta R.T. 0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

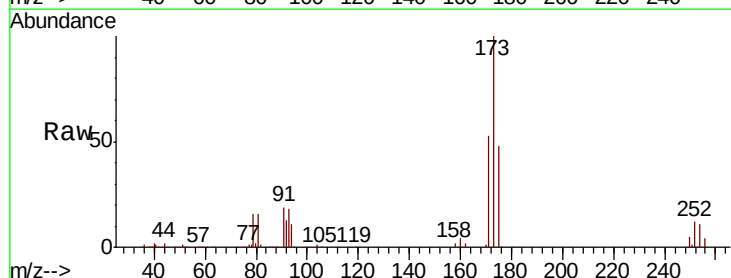
Tgt Ion: 173 Resp: 65760

Ion Ratio Lower Upper

173 100

175 49.4 39.1 58.7

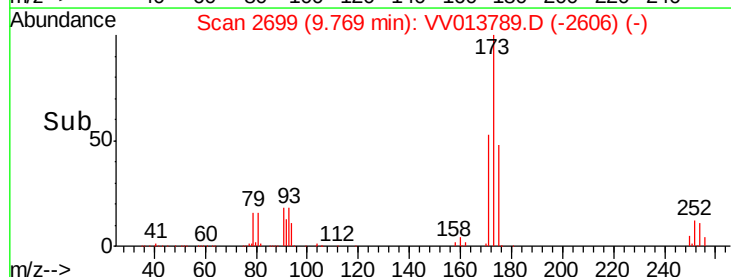
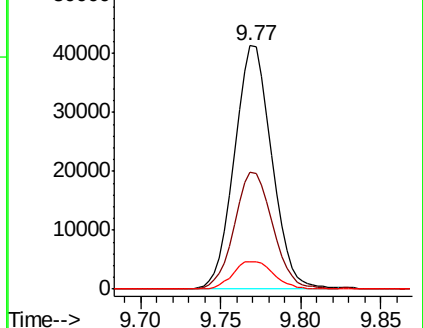
254 12.3 10.4 15.6

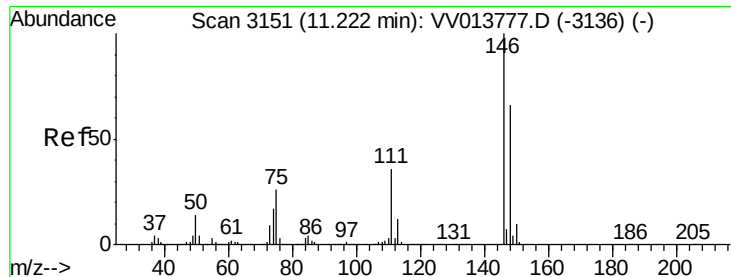


Abundance Ion 172.90 (172.60 to 173.60): VV013777.D (-2687) (-)

Ion 174.90 (174.60 to 175.60): VV013777.D (-2687) (-)

Ion 253.75 (253.45 to 254.45): VV013777.D (-2687) (-)





#62

1,3-Dichlorobenzene

Concen: 5.118 ug/L

RT: 11.22 min Scan# 3151

Delta R.T. 0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

Instrument :

MSVOA_V

ClientSampleId :

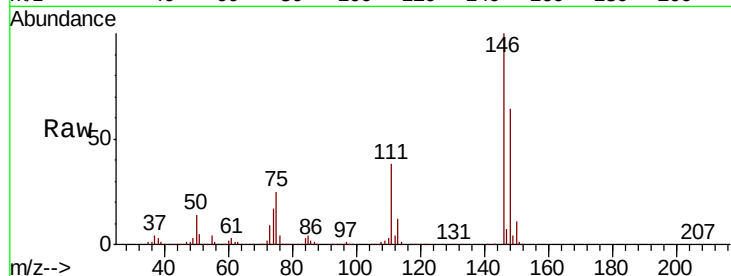
Tot Ion:146 Resp: 261027

Ion Ratio Lower Upper

146 100

111 37.7 25.6 47.6

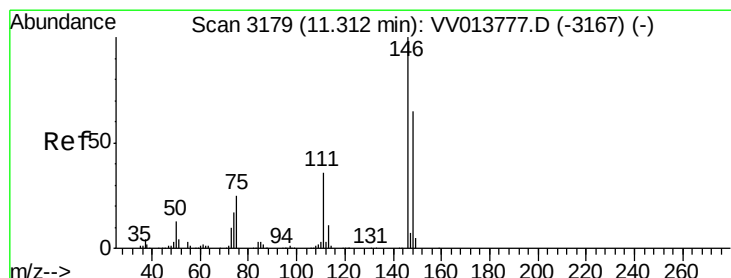
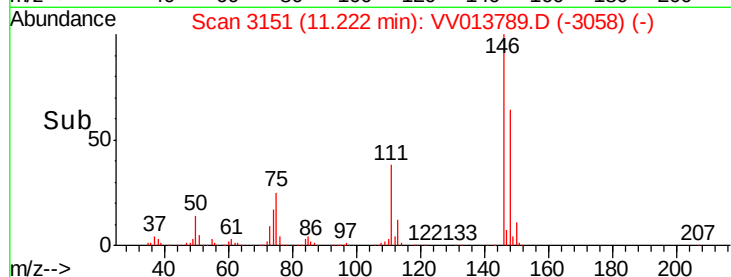
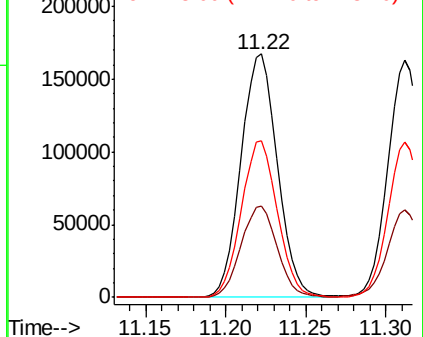
148 64.2 44.7 82.9



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



#63

1,4-Dichlorobenzene

Concen: 4.868 ug/L

RT: 11.31 min Scan# 3179

Delta R.T. 0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

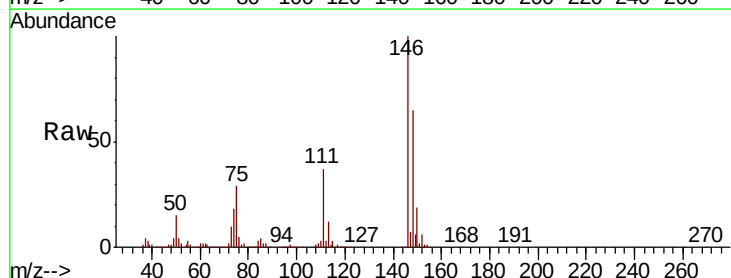
Tgt Ion:146 Resp: 252724

Ion Ratio Lower Upper

146 100

111 36.6 25.0 46.4

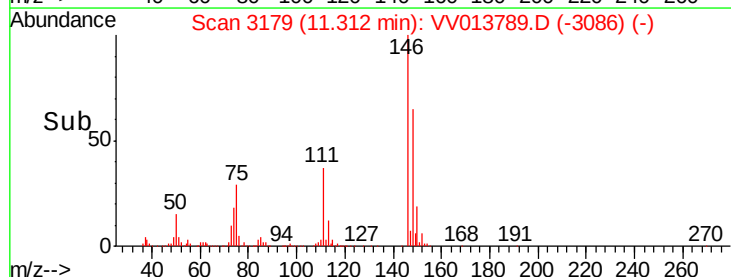
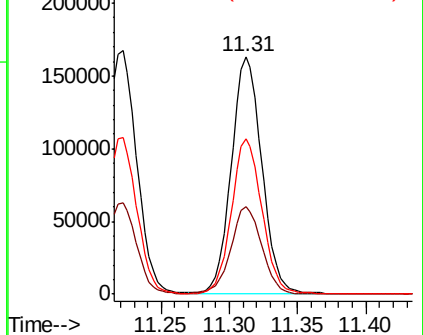
148 65.3 45.4 84.2

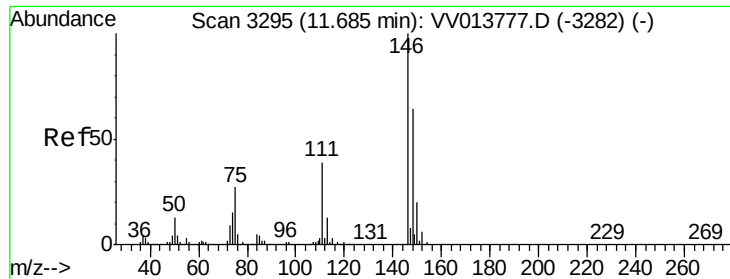


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

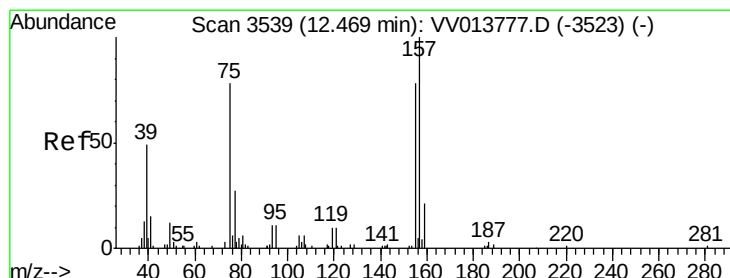
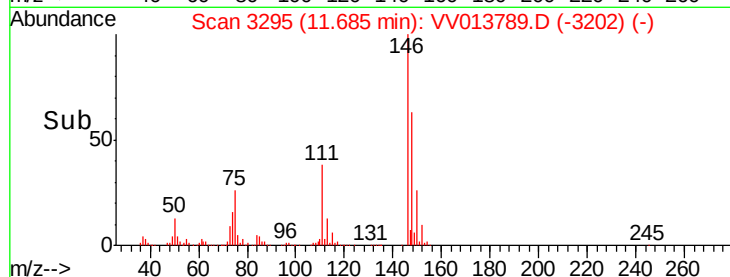
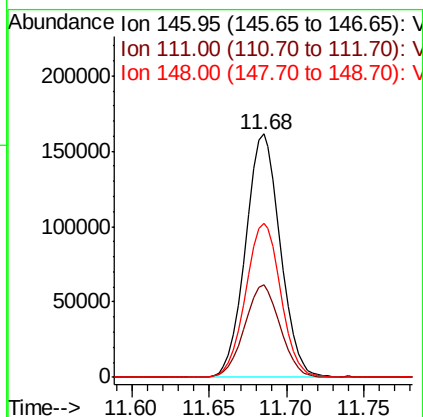
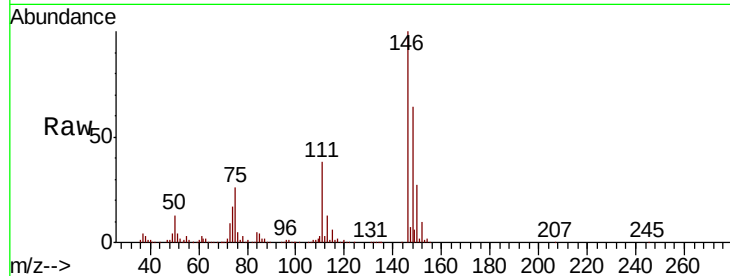




#65
 1,2-Dichlorobenzene
 Concen: 5.333 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. 0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

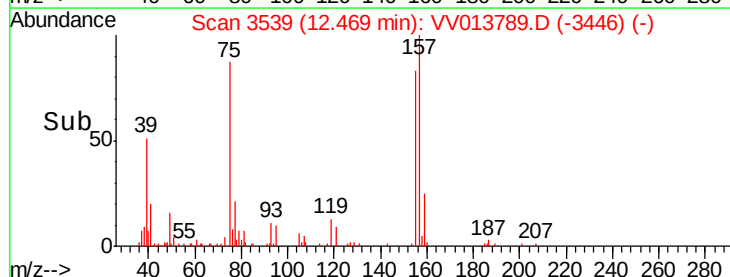
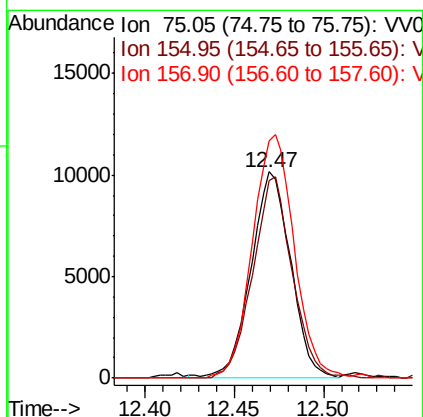
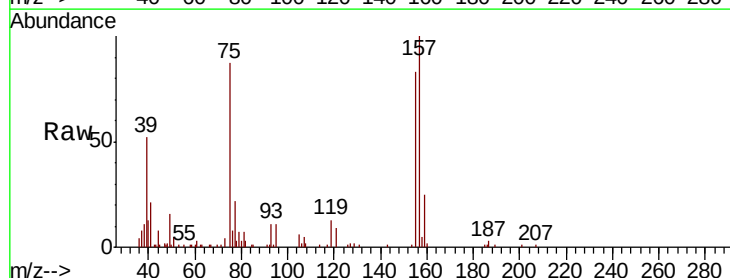
Instrument :
 MSVOA_V
 ClientSampleId :

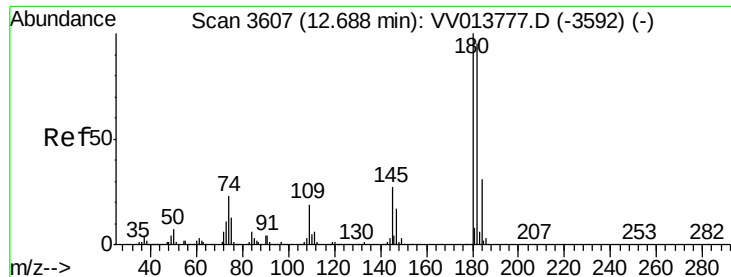
Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	31.3	46.9
148	63.5	52.2	78.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.765 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. 0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.1	73.4	110.0
157	115.3	98.7	148.1

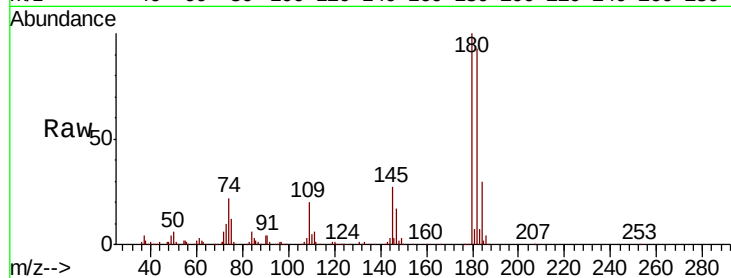




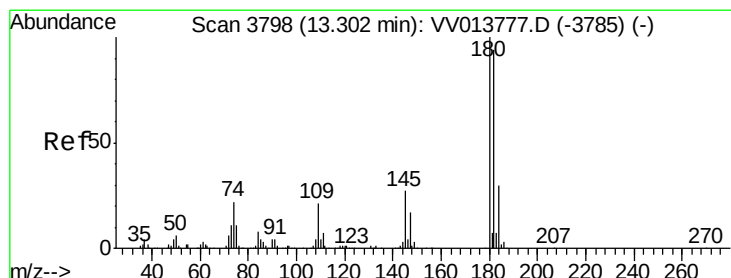
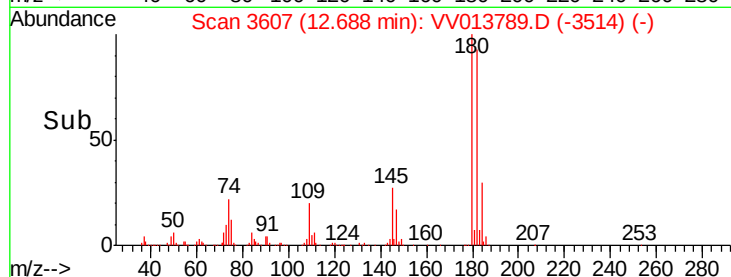
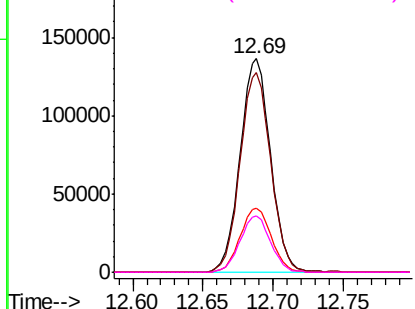
#67
 1,3,5-Trichlorobenzene
 Concen: 4.790 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:180	Resp:	206366
Ion Ratio	Lower	Upper
180	100	
182	94.1	74.8 112.2
184	30.8	23.2 34.8
145	26.6	21.3 31.9

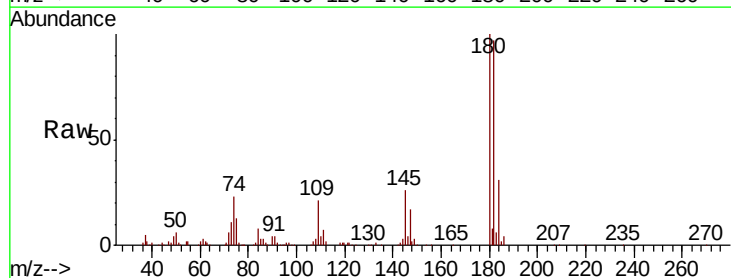


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

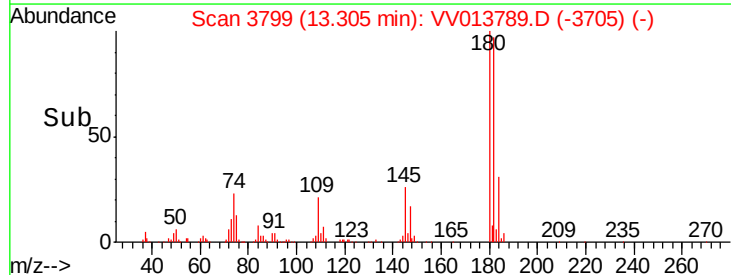
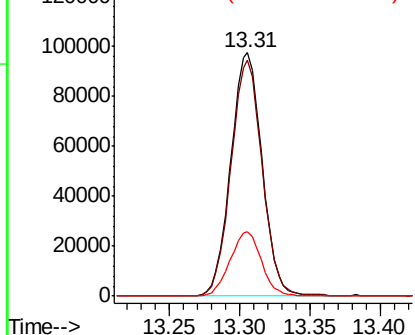


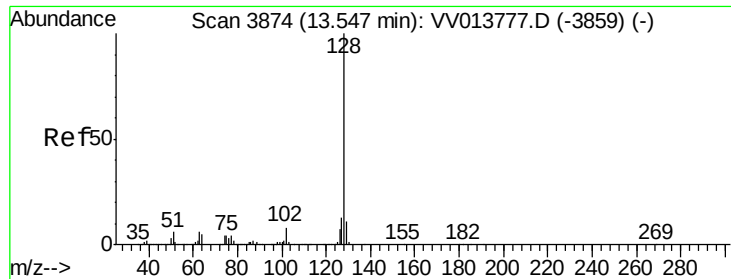
#68
 1,2,4-trichlorobenzene
 Concen: 4.295 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV013789.D
 Acq: 26 Nov 2019 16:02

Tgt Ion:180	Resp:	151756
Ion Ratio	Lower	Upper
180	100	
182	96.5	76.2 114.4
145	26.6	21.0 31.6



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: 4.068 ug/L

RT: 13.55 min Scan# 3874

Delta R.T. 0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

Instrument :

MSVOA_V

ClientSampleId :

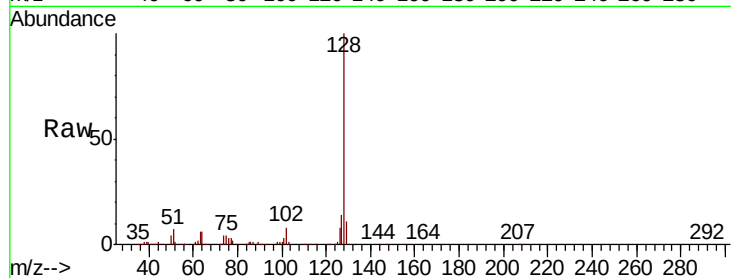
Tot Ion:128 Resp: 195712

Ion Ratio Lower Upper

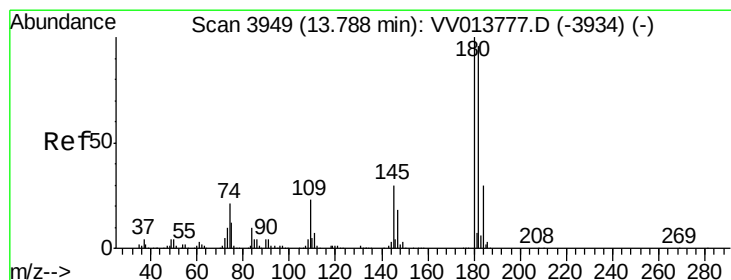
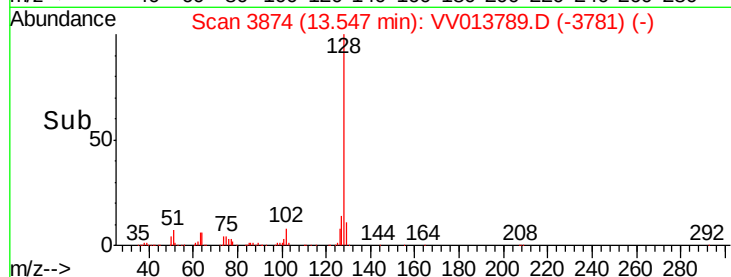
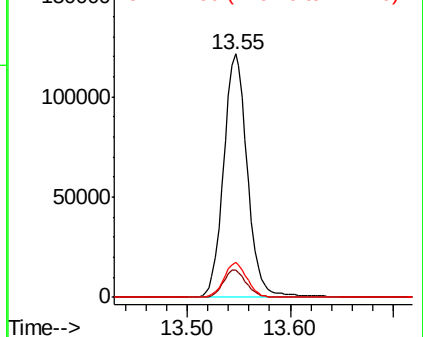
128 100

129 11.1 8.6 12.8

127 14.1 10.6 16.0



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: 4.793 ug/L

RT: 13.79 min Scan# 3949

Delta R.T. 0.00 min

Lab File: VV013789.D

Acq: 26 Nov 2019 16:02

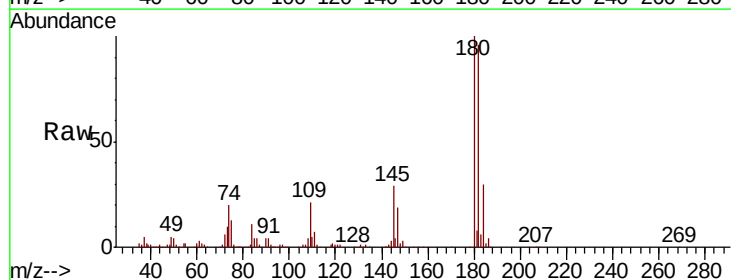
Tgt Ion:180 Resp: 154269

Ion Ratio Lower Upper

180 100

182 93.8 78.5 117.7

145 27.8 23.8 35.8



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

