

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV021020\
 Data File : VV014549.D
 Acq On : 10 Feb 2020 14:09
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Feb 11 04:46:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM020620W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Feb 11 04:43:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	327955	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	305017	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	153127	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	70445	39.61	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.22%
7) Chloroethane-d5	1.58	69	52201	42.59	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.18%
11) 1,1-Dichloroethene-d2	2.13	63	88277	32.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	65.36%
21) 2-Butanone-d5	3.92	46	130678	95.19	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.19%
24) Chloroform-d	4.40	84	195434	48.22	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.44%
26) 1,2-Dichloroethane-d4	5.08	65	125638	50.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.58%
32) Benzene-d6	5.10	84	413603	48.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.94%
36) 1,2-Dichloropropane-d6	6.11	67	126711	48.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	97.86%
41) Toluene-d8	7.36	98	382842	49.23	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.46%
43) trans-1,3-Dichloropropene-	7.66	79	66861	48.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.30%
47) 2-Hexanone-d5	8.13	63	105446	95.70	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	95.70%
56) 1,1,2,2-Tetrachloroethane-	10.25	84	170050	50.56	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	101.12%
66) 1,2-Dichlorobenzene-d4	11.67	152	151256	51.50	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	6447	2.454 ug/L	98
3) Chloromethane	1.26	50	6262	2.354 ug/L	92
5) Vinyl chloride	1.32	62	4609	2.262 ug/L #	75
6) Bromomethane	1.53	94	1975	2.108 ug/L	88
8) Chloroethane	1.60	64	2124	2.098 ug/L	96
9) Trichlorofluoromethane	1.77	101	6695	2.439 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3855	2.925 ug/L #	84
12) 1,1-Dichloroethene	2.14	96	3648	2.894 ug/L #	1
13) Acetone	2.19	43	7039	6.124 ug/L	99
14) Carbon disulfide	2.32	76	13923	2.275 ug/L	95
15) Methyl Acetate	2.46	43	4967	2.247 ug/L	92
16) Methylene chloride	2.54	84	6923	2.892 ug/L	89
17) trans-1,2-Dichloroethene	2.79	96	5758	2.593 ug/L	99
18) Methyl tert-butyl Ether	2.80	73	17241	2.452 ug/L #	96
19) 1,1-Dichloroethane	3.23	63	9547	2.404 ug/L	94
20) cis-1,2-Dichloroethene	3.96	96	6243	2.498 ug/L	88
22) 2-Butanone	4.03	43	5954	3.502 ug/L	94

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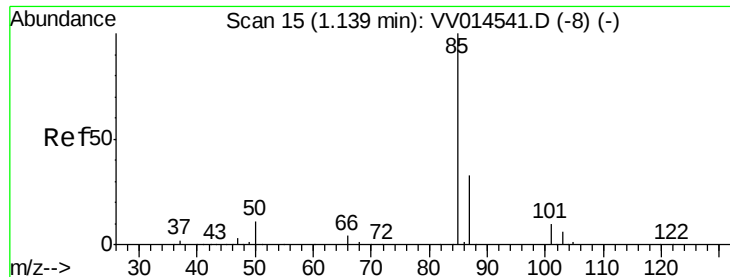
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.30	128	1230	1.039	ug/L	89
25) Chloroform	4.42	83	14758	3.655	ug/L	95
27) 1,2-Dichloroethane	5.18	62	7936	2.638	ug/L	97
29) Cyclohexane	4.72	56	8585	2.289	ug/L #	87
30) 1,1,1-Trichloroethane	4.66	97	8718	2.504	ug/L	99
31) Carbon tetrachloride	4.87	117	7641	2.488	ug/L	92
33) Benzene	5.15	78	22434	2.502	ug/L	100
34) Trichloroethene	5.96	95	5944	2.501	ug/L	92
35) Methylcyclohexane	6.18	83	9439	2.430	ug/L	97
37) 1,2-Dichloropropane	6.22	63	5263	2.304	ug/L	98
38) Bromodichloromethane	6.55	83	7772	2.535	ug/L #	92
39) cis-1,3-Dichloropropene	7.07	75	9500	2.493	ug/L	94
40) 4-Methyl-2-pentanone	7.27	43	12959	4.390	ug/L	100
42) Toluene	7.43	91	24815	2.581	ug/L	97
44) trans-1,3-Dichloropropene	7.69	75	8260	2.418	ug/L	97
45) 1,1,2-Trichloroethane	7.88	97	5386	2.458	ug/L	93
46) Tetrachloroethene	8.02	164	4618	2.547	ug/L	96
48) 2-Hexanone	8.18	43	11972	5.269	ug/L	89
49) Dibromochloromethane	8.29	129	5881	2.377	ug/L	90
50) 1,2-Dibromoethane	8.39	107	5872	2.474	ug/L	99
51) Chlorobenzene	8.92	112	15937	2.538	ug/L	97
52) Ethylbenzene	9.05	91	26882	2.493	ug/L	98
53) m,p-Xylene	9.18	106	10260	2.470	ug/L	99
54) o-Xylene	9.59	106	9956	2.505	ug/L	98
55) Styrene	9.60	104	16844	2.479	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.28	83	9432	2.746	ug/L #	94
59) Bromoform	9.77	173	3929	2.300	ug/L #	91
60) Isopropylbenzene	9.97	105	26194	2.530	ug/L	99
61) 1,2,3-Trichloropropane	10.31	75	6792	2.505	ug/L	95
62) 1,3,5-Trimethylbenzene	10.58	105	20327	2.293	ug/L	98
63) 1,2,4-Trimethylbenzene	10.95	105	20130	2.303	ug/L	99
64) 1,3-Dichlorobenzene	11.22	146	12192	2.496	ug/L	98
65) 1,4-Dichlorobenzene	11.31	146	13165	2.618	ug/L	99
67) 1,2-Dichlorobenzene	11.68	146	12886	2.721	ug/L	99
68) 1,2-Dibromo-3-chloropropan	12.47	75	1895	2.495	ug/L #	89
69) 1,3,5-Trichlorobenzene	12.69	180	8330	2.421	ug/L	99
70) 1,2,4-trichlorobenzene	13.31	180	7656	2.423	ug/L	99
71) Naphthalene	13.55	128	23291	2.244	ug/L	100
72) 1,2,3-Trichlorobenzene	13.79	180	6815	2.220	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 2.454 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

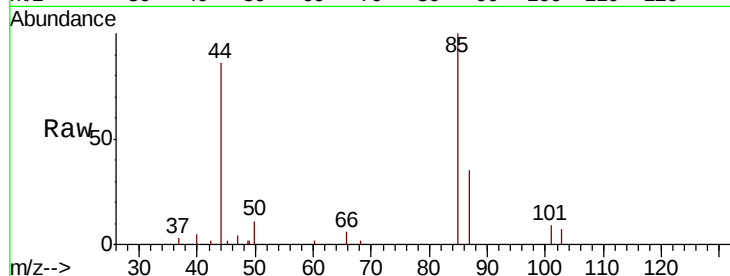
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 6447

Ion Ratio Lower Upper

85 100

87 33.1 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VV014549.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VV014549.D (-8) (-)

1.14

6000

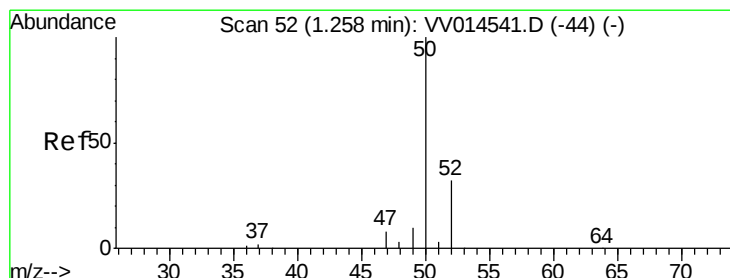
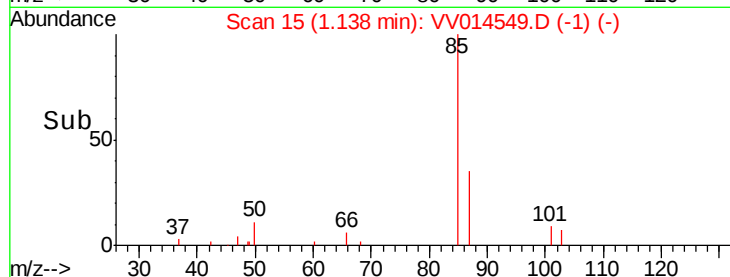
4000

2000

0

Time-->

1.10 1.12 1.14 1.16 1.18



#3

Chloromethane

Concen: 2.354 ug/L

RT: 1.26 min Scan# 52

Delta R.T. -0.00 min

Lab File: VV014549.D

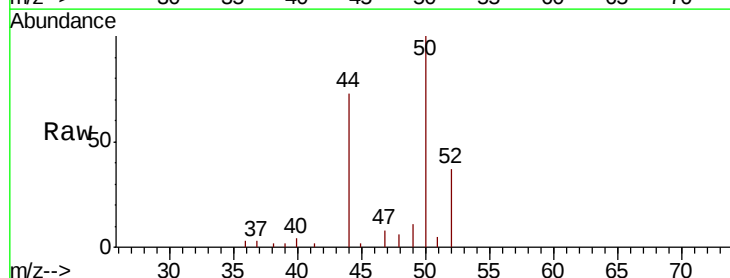
Acq: 10 Feb 2020 14:09

Tgt Ion: 50 Resp: 6262

Ion Ratio Lower Upper

50 100

52 37.2 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV014549.D (-44) (-)

Ion 52.00 (51.70 to 52.70): VV014549.D (-44) (-)

1.26

6000

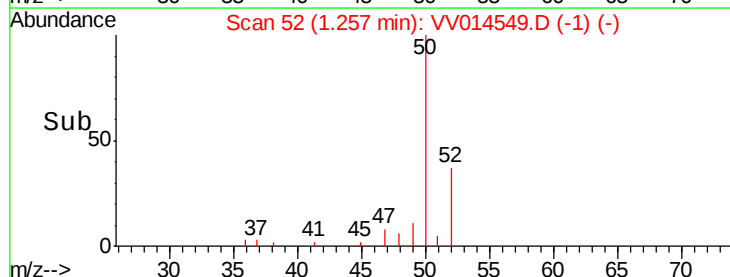
4000

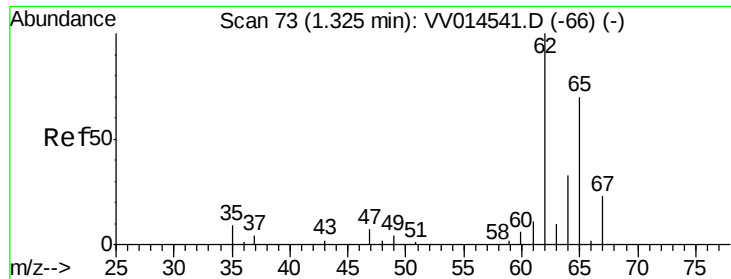
2000

0

Time-->

1.25 1.30





#5

Vinyl chloride

Concen: 2.262 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA_V

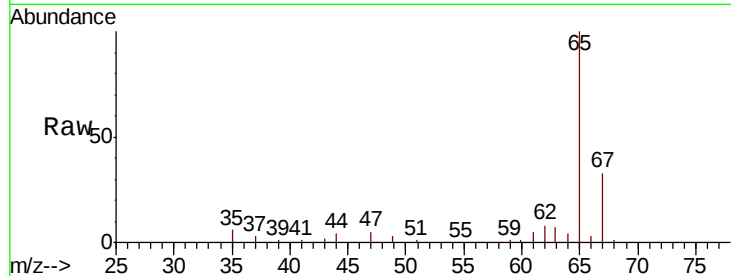
ClientSampleId :

Tot Ion: 62 Resp: 4609

Ion Ratio Lower Upper

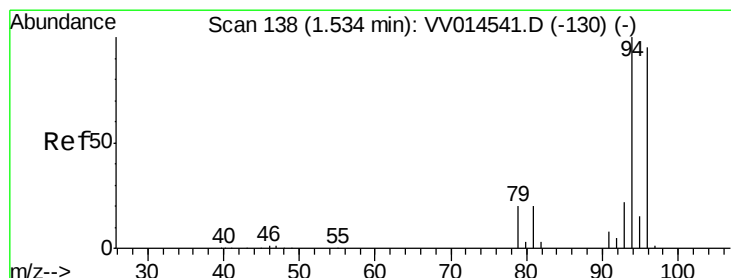
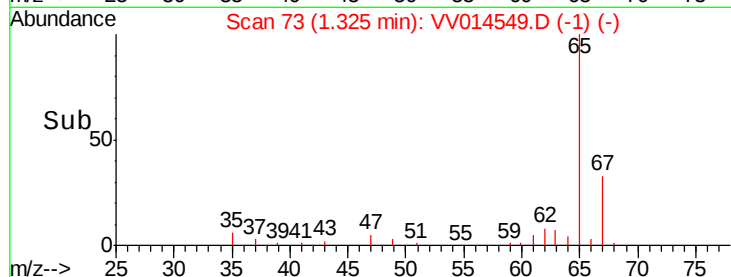
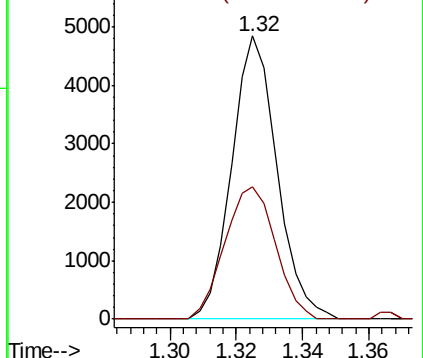
62 100

64 46.9 23.1 42.9#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 2.108 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV014549.D

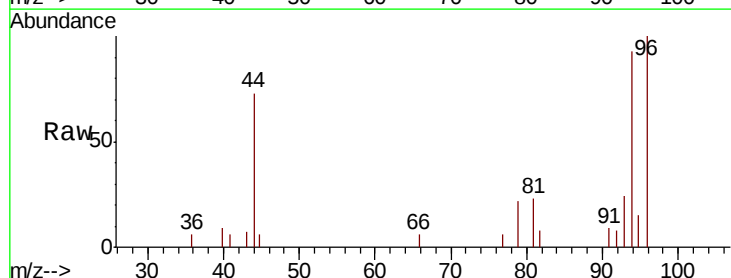
Acq: 10 Feb 2020 14:09

Tgt Ion: 94 Resp: 1975

Ion Ratio Lower Upper

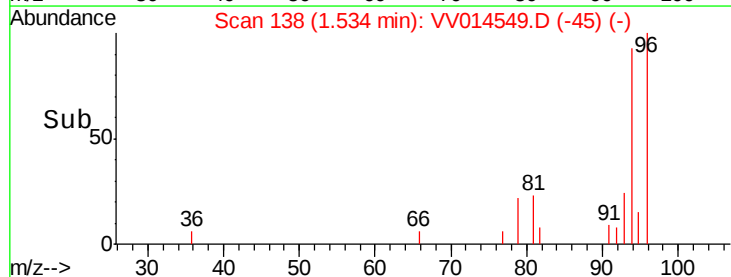
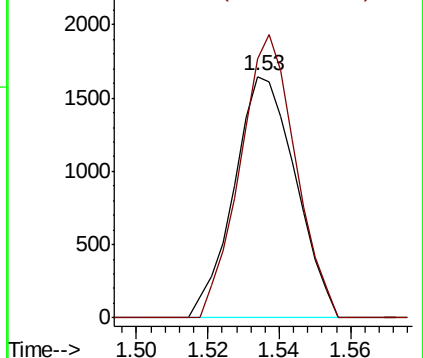
94 100

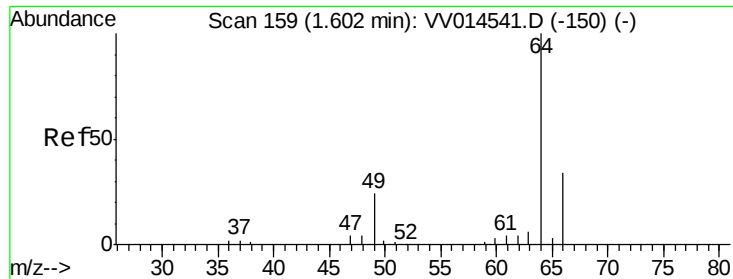
96 107.4 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

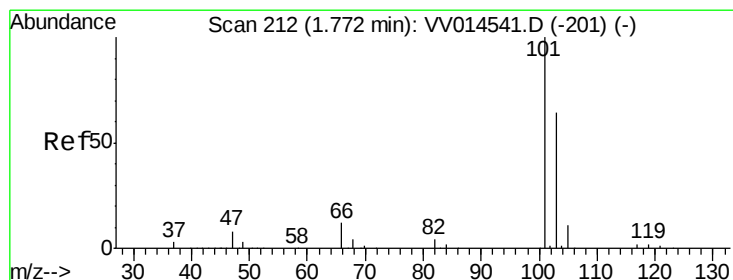
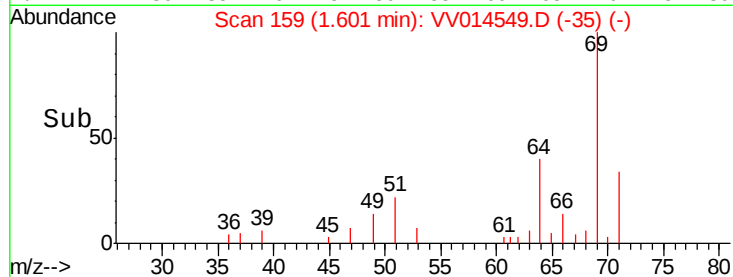
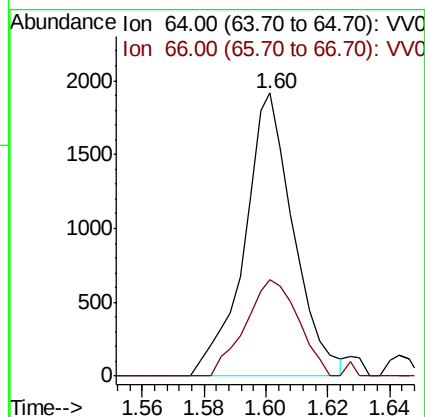
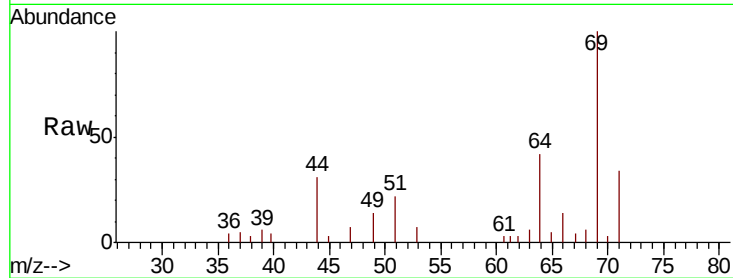




#8
Chloroethane
Concen: 2.098 ug/L
RT: 1.60 min Scan# 159
Delta R.T. -0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

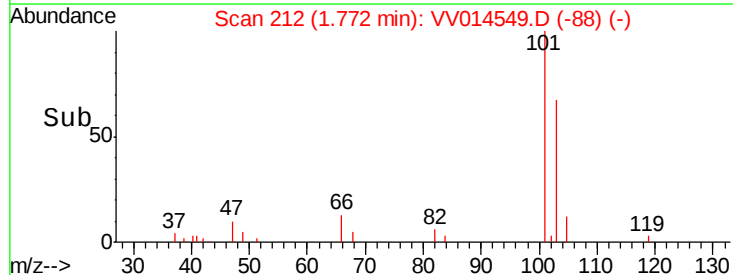
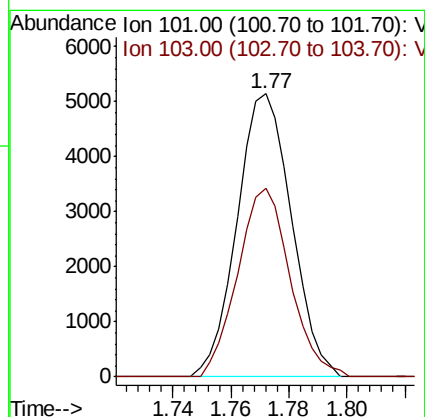
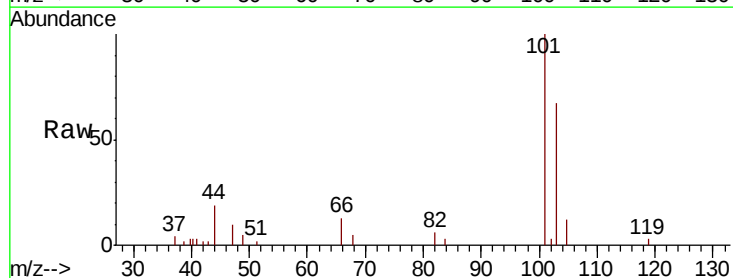
Instrument :
MSVOA_V
ClientSampleId :

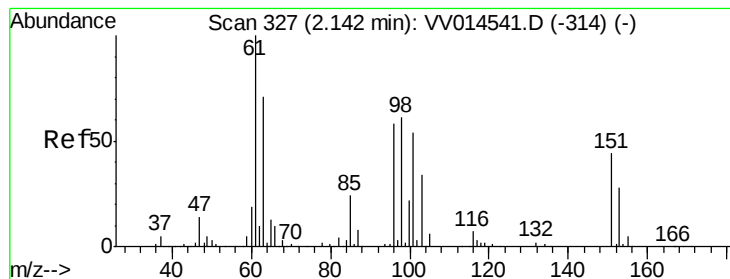
Tot Ion: 64 Resp: 2124
Ion Ratio Lower Upper
64 100
66 34.0 22.4 41.6



#9
Trichlorofluoromethane
Concen: 2.439 ug/L
RT: 1.77 min Scan# 212
Delta R.T. -0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Tgt Ion: 101 Resp: 6695
Ion Ratio Lower Upper
101 100
103 64.3 51.8 77.8





#10

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

Concen: 2.925 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.01 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA_V

ClientSampleId :

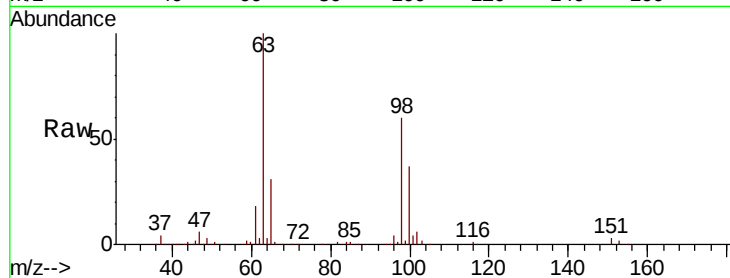
Tot Ion:101 Resp: 3855

Ion Ratio Lower Upper

101 100

85 34.7 35.0 52.6#

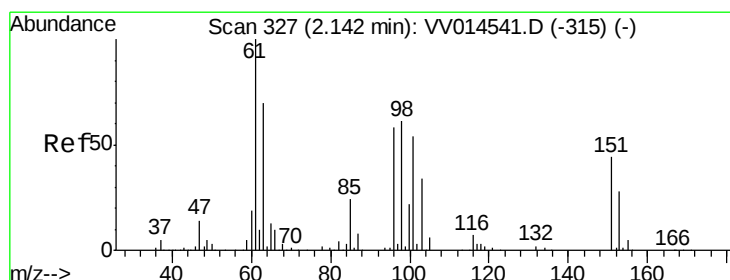
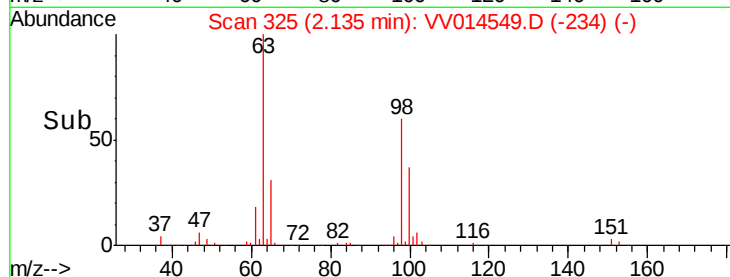
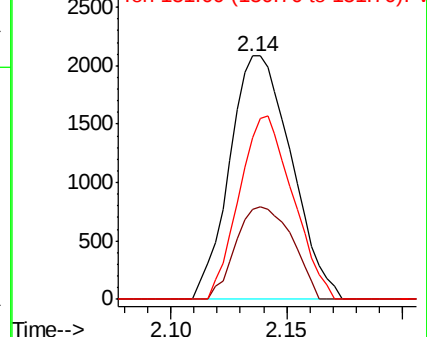
151 65.4 64.4 96.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.894 ug/L

RT: 2.14 min Scan# 327

Delta R.T. -0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

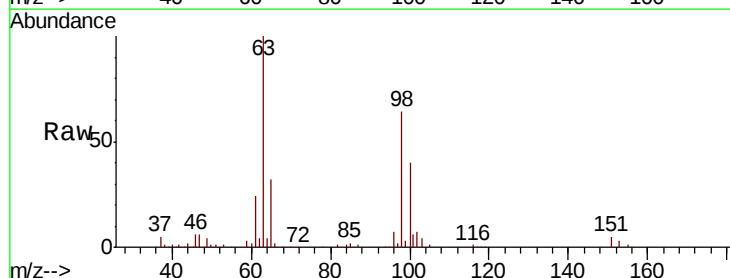
Tgt Ion: 96 Resp: 3648

Ion Ratio Lower Upper

96 100

61 334.2 125.0 232.2#

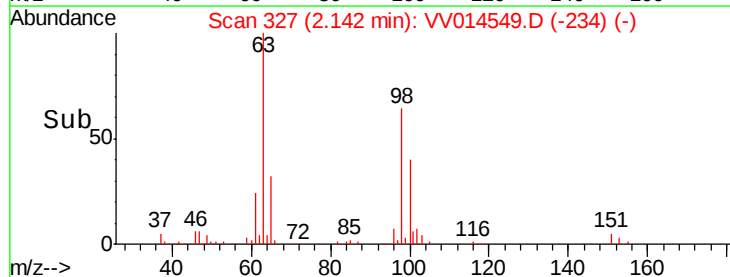
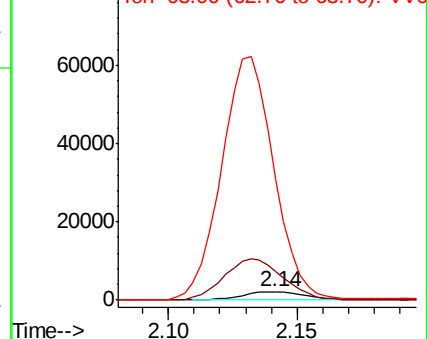
63 1391.0 101.6 188.6#

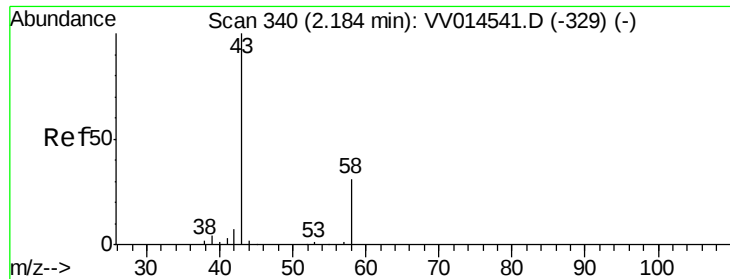


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.124 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA_V

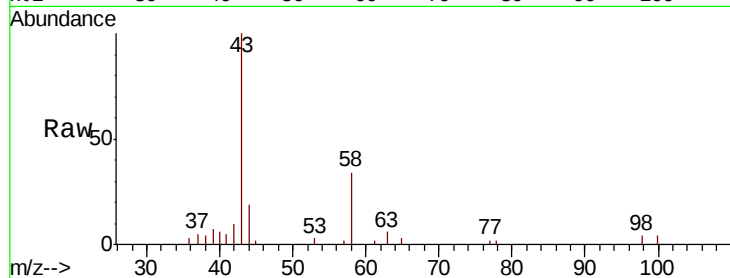
ClientSampleId :

Tot Ion: 43 Resp: 7039

Ion Ratio Lower Upper

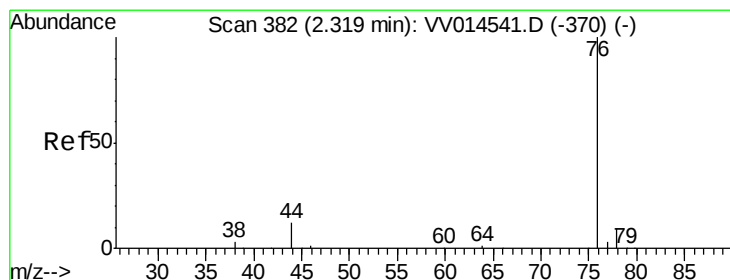
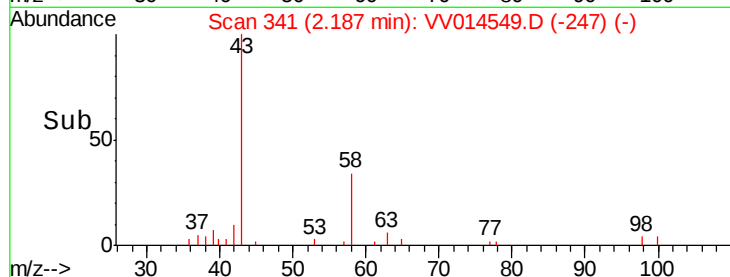
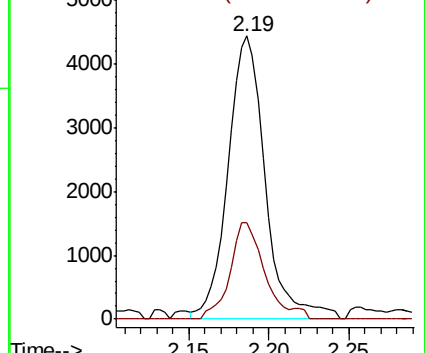
43 100

58 30.4 0.0 61.8



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 2.275 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.00 min

Lab File: VV014549.D

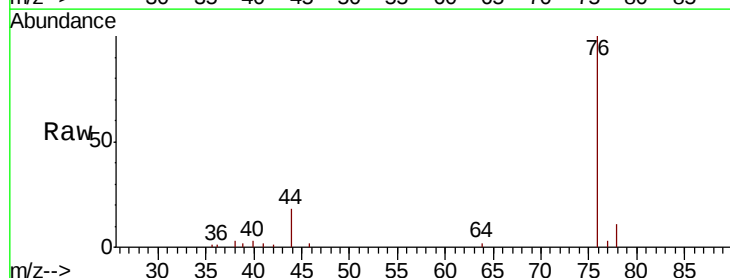
Acq: 10 Feb 2020 14:09

Tgt Ion: 76 Resp: 13923

Ion Ratio Lower Upper

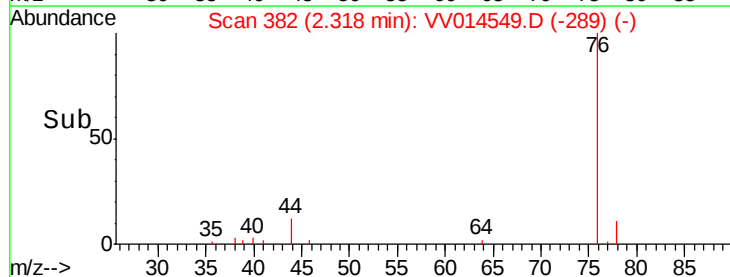
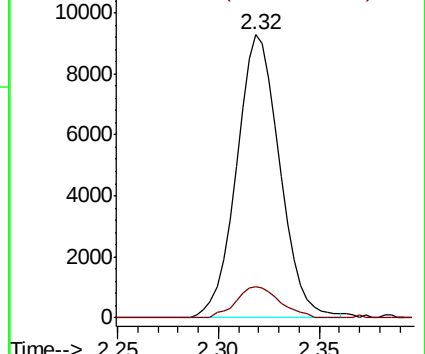
76 100

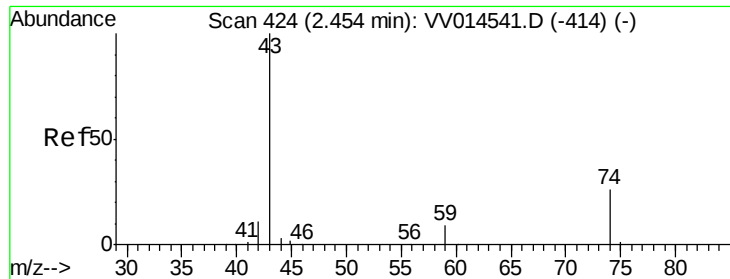
78 10.9 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

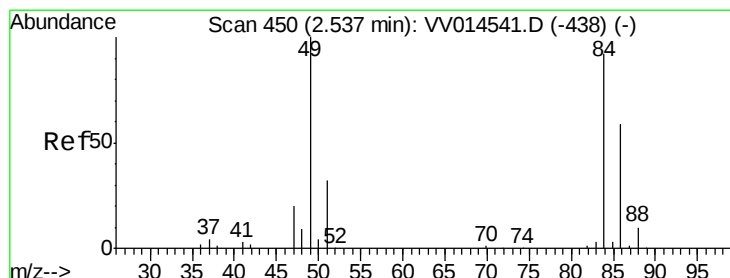
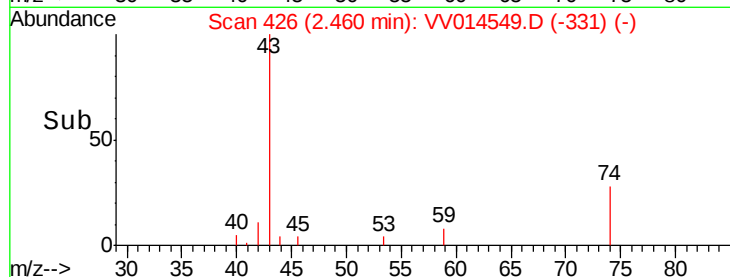
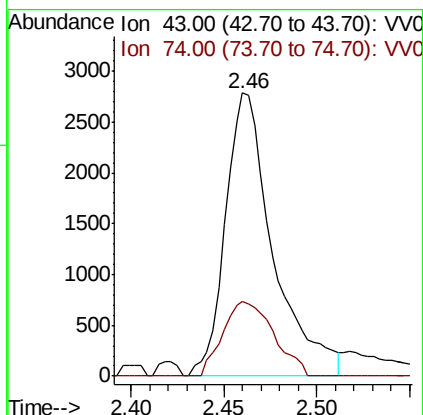
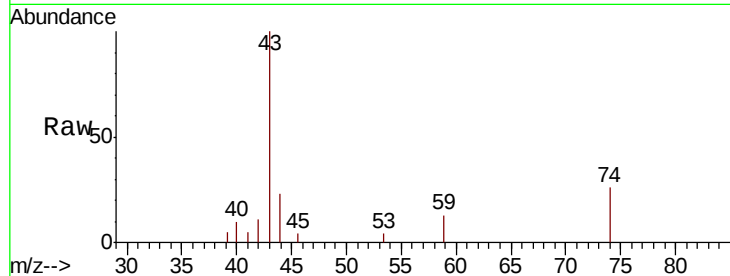




#15
Methvl Acetate
Concen: 2.247 ug/L
RT: 2.46 min Scan# 426
Delta R.T. 0.01 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

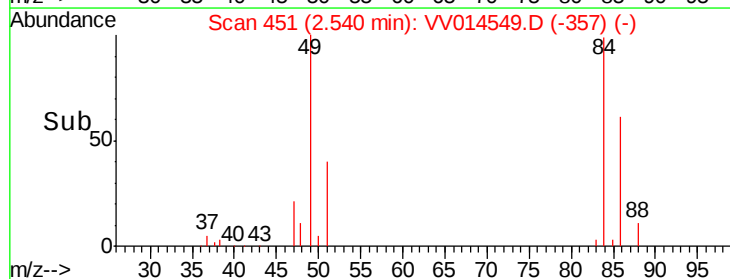
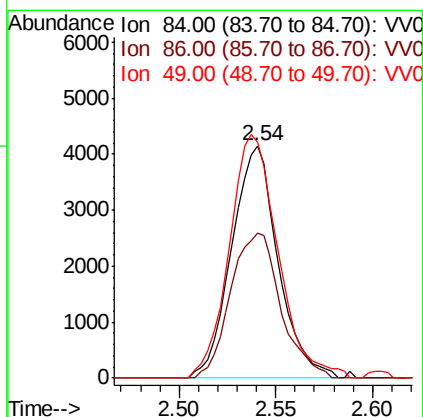
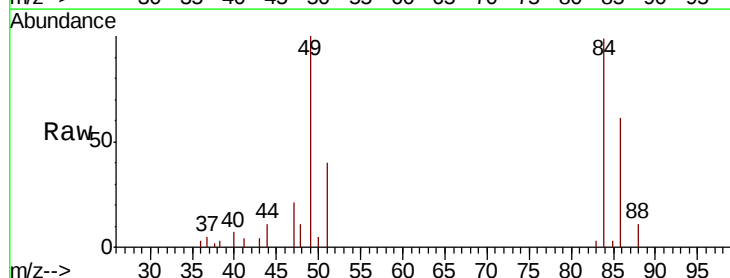
Instrument :
MSVOA_V
ClientSampleId :

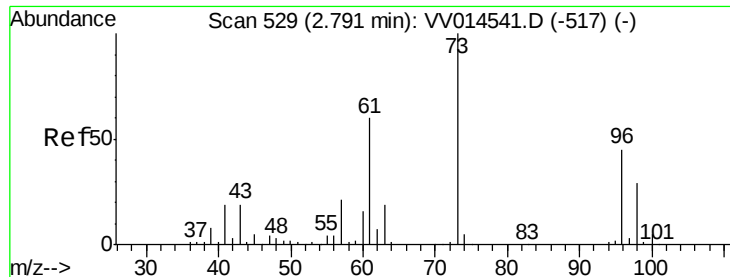
Tot Ion: 43 Resp: 4967
Ion Ratio Lower Upper
43 100
74 28.2 19.4 29.0



#16
Methylene chloride
Concen: 2.892 ug/L
RT: 2.54 min Scan# 451
Delta R.T. 0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Tgt Ion: 84 Resp: 6923
Ion Ratio Lower Upper
84 100
86 62.1 44.6 82.8
49 101.3 83.2 154.4





#17

trans-1,2-Dichloroethene

Concen: 2.593 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :
MSVOA_V
ClientSampled :

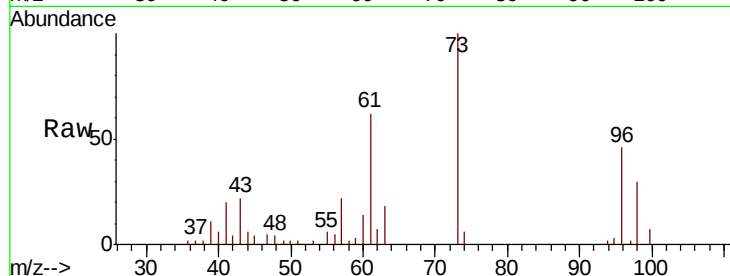
Tot Ion: 96 Resp: 5758

Ion Ratio Lower Upper

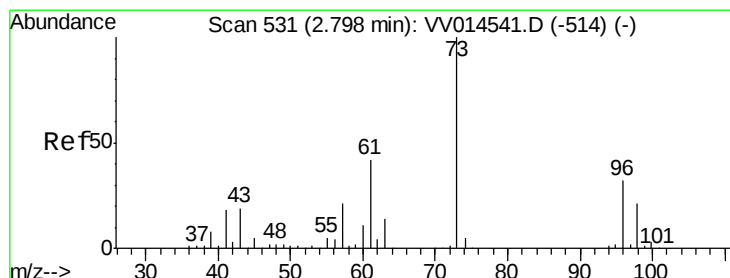
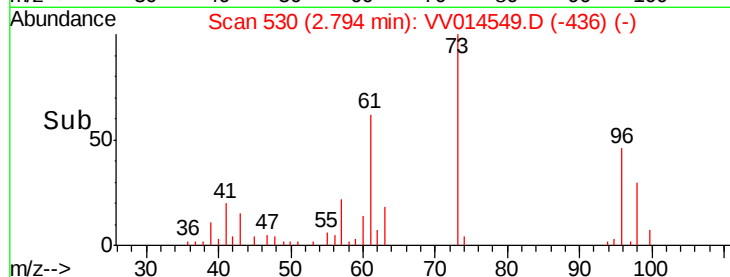
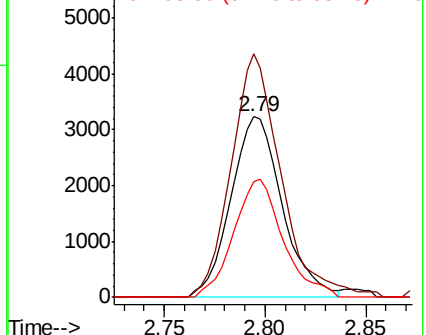
96 100

61 134.6 95.8 178.0

98 63.9 45.1 83.7



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



#18

Methyl tert-butyl Ether

Concen: 2.452 ug/L

RT: 2.80 min Scan# 532

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

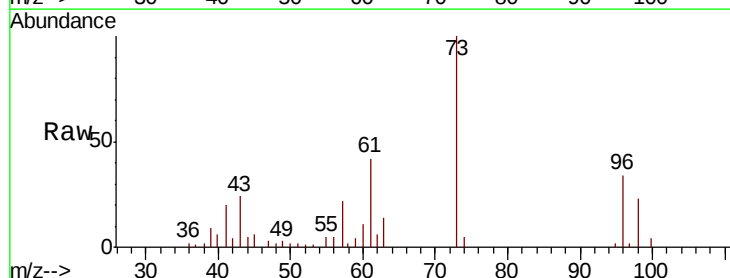
Tgt Ion: 73 Resp: 17241

Ion Ratio Lower Upper

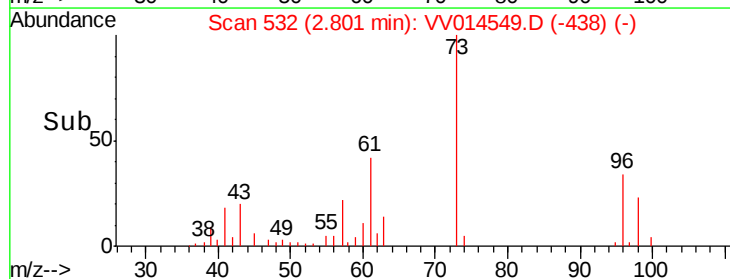
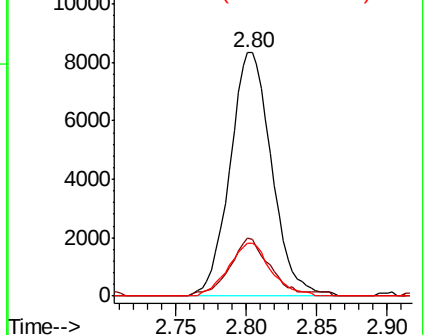
73 100

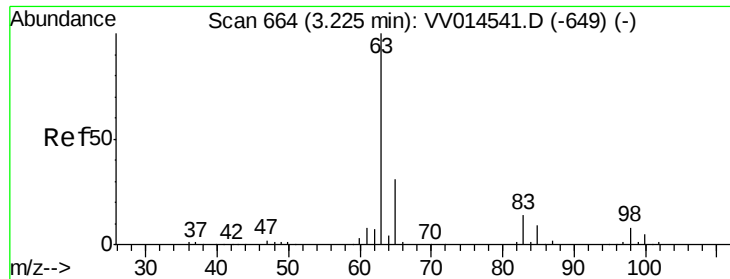
43 22.4 14.9 22.3#

57 22.1 17.5 26.3



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

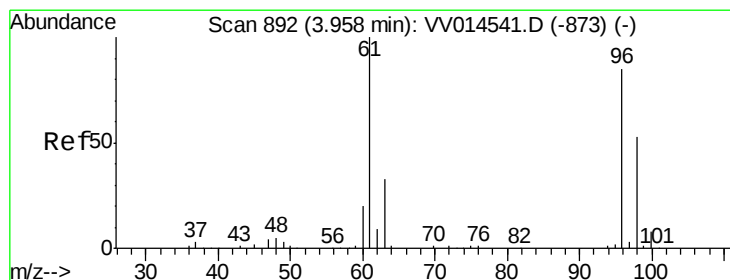
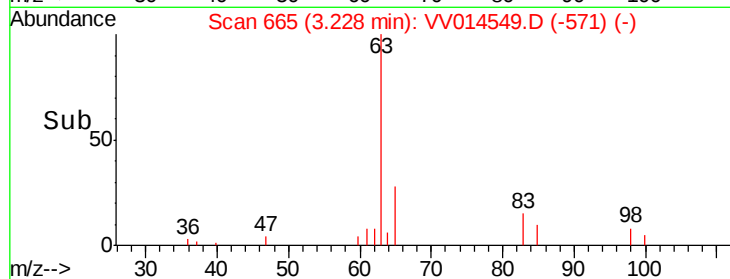
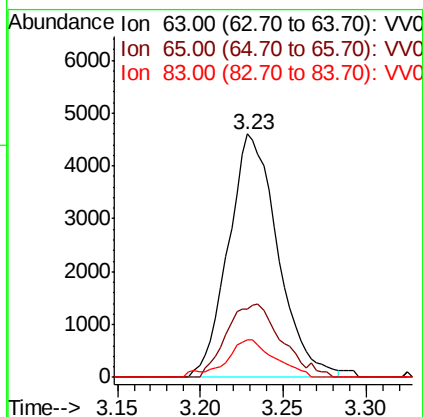
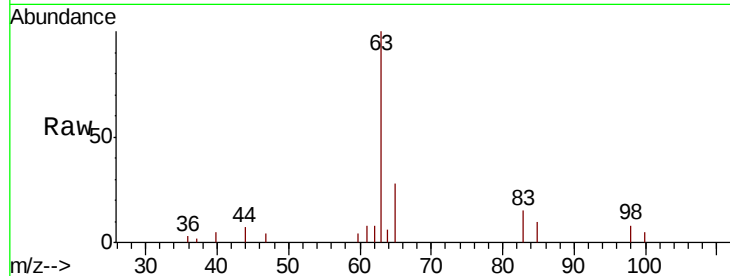




#19
 1,1-Dichloroethane
 Concen: 2.404 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

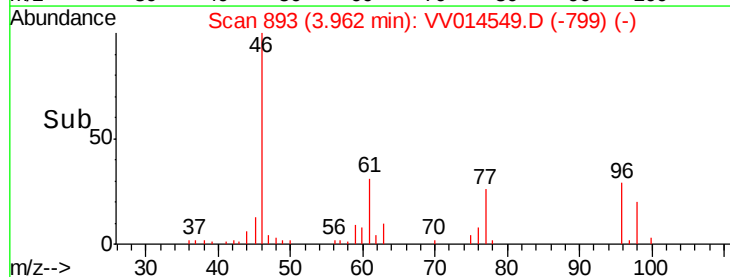
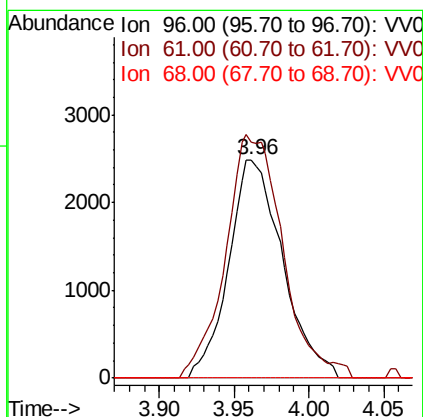
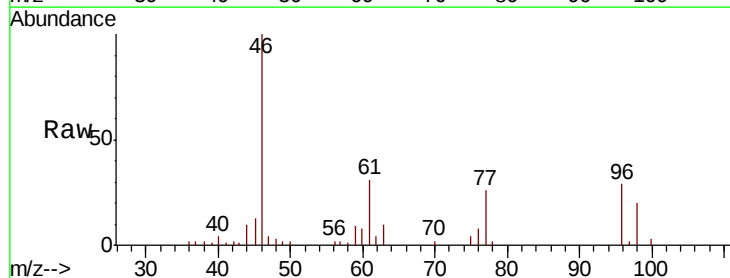
Instrument :
 MSVOA_V
 ClientSampleId :

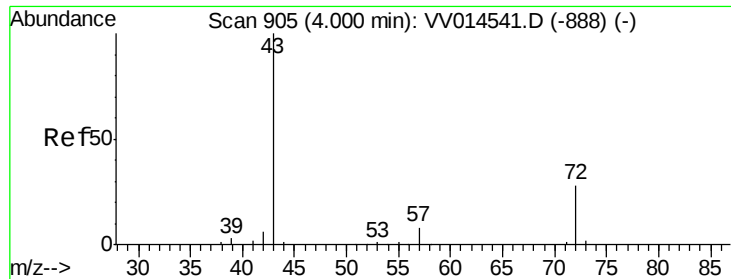
Tot Ion: 63 Resp: 9547
 Ion Ratio Lower Upper
 63 100
 65 28.3 22.5 41.7
 83 15.3 9.7 18.1



#20
 cis-1,2-Dichloroethene
 Concen: 2.498 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

Tgt Ion: 96 Resp: 6243
 Ion Ratio Lower Upper
 96 100
 61 108.1 85.2 158.2
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 3.502 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.03 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

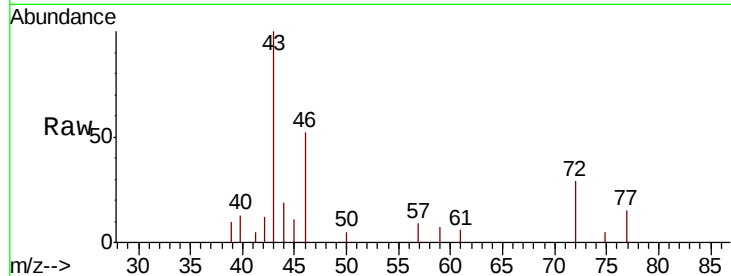
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 5954

Ion Ratio Lower Upper

43 100

72 22.2 12.7 38.1



Abundance Ion 43.00 (42.70 to 43.70): VV014541.D (-888) (-)

Ion 72.00 (71.70 to 72.70): VV014541.D (-888) (-)

2500

2000

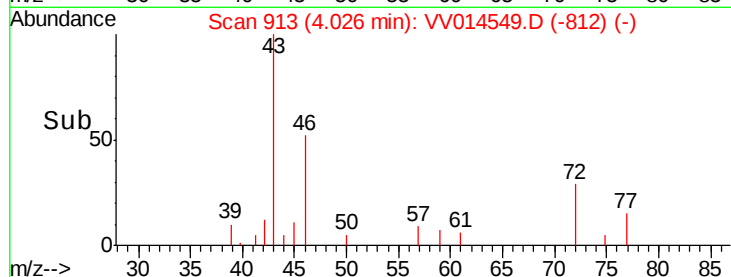
1500

1000

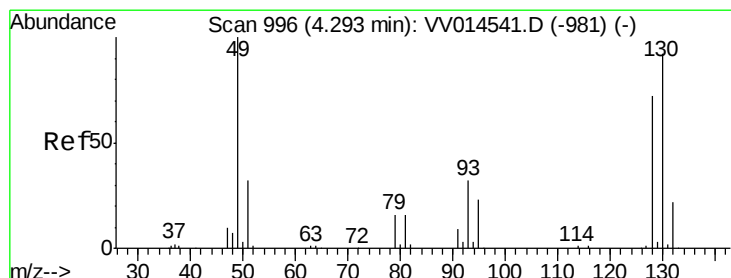
500

0

Time-->



Time-->



#23

Bromochloromethane

Concen: 1.039 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Tgt Ion: 128 Resp: 1230

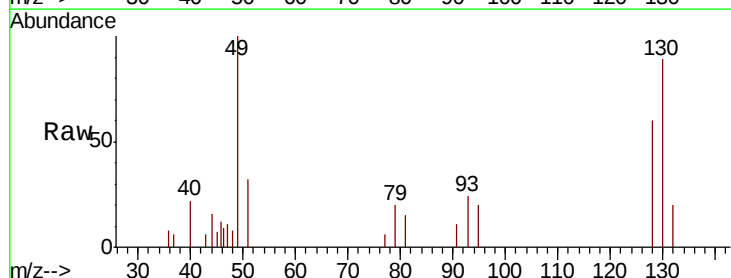
Ion Ratio Lower Upper

128 100

49 165.7 110.1 204.5

130 147.2 88.5 164.4

51 53.3 39.4 59.0



Abundance Ion 128.00 (127.70 to 128.70): VV014549.D (-903) (-)

Ion 49.00 (48.70 to 49.70): VV014549.D (-903) (-)

Ion 130.00 (129.70 to 130.70): VV014549.D (-903) (-)

Ion 51.00 (50.70 to 51.70): VV014549.D (-903) (-)

2500

2000

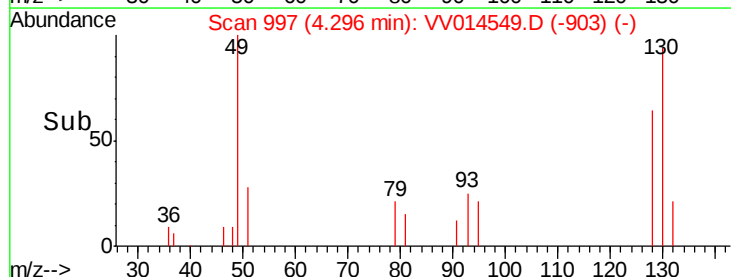
1500

1000

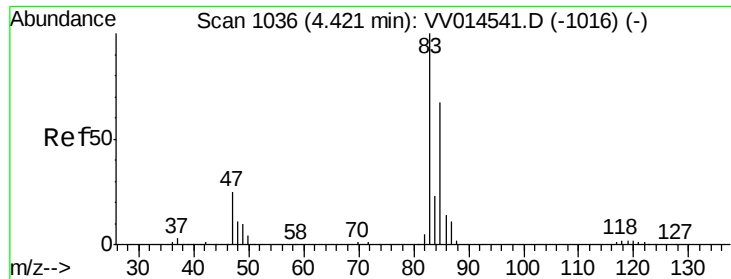
500

0

Time-->



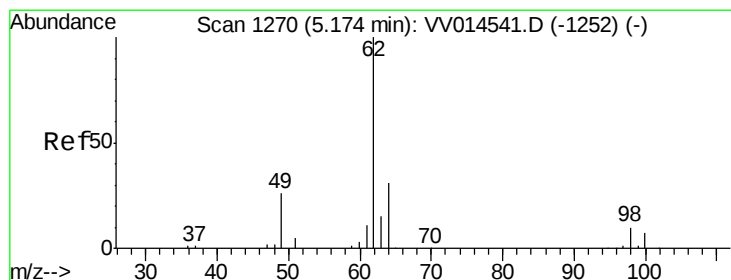
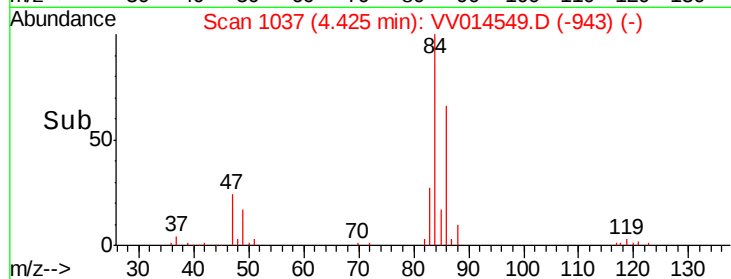
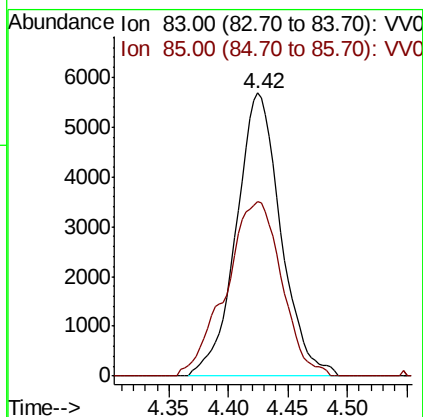
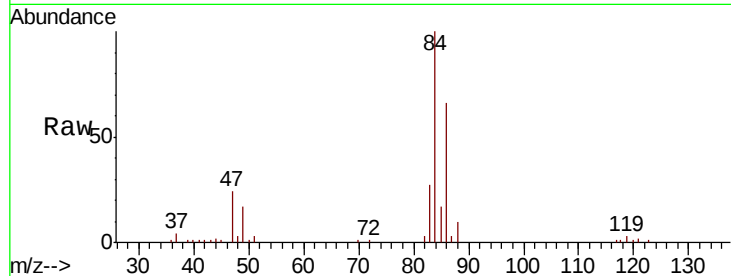
Time-->



#25
Chloroform
Concen: 3.655 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

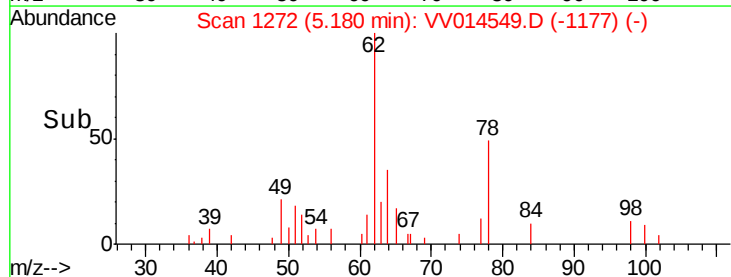
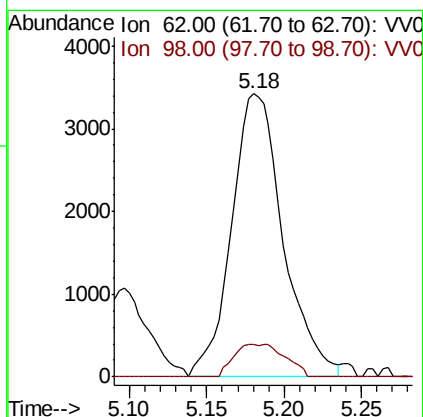
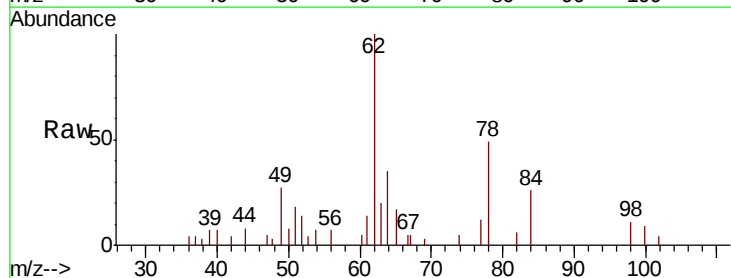
Instrument :
MSVOA_V
ClientSampled :

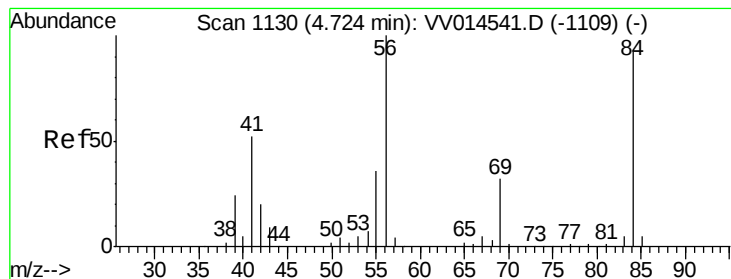
Tot Ion: 83 Resp: 14758
Ion Ratio Lower Upper
83 100
85 61.6 45.8 85.0



#27
1,2-Dichloroethane
Concen: 2.638 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Tgt Ion: 62 Resp: 7936
Ion Ratio Lower Upper
62 100
98 11.4 8.2 12.4





#29

Cyclohexane

Concen: 2.289 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

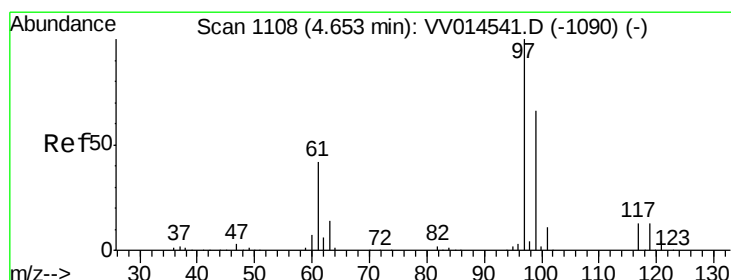
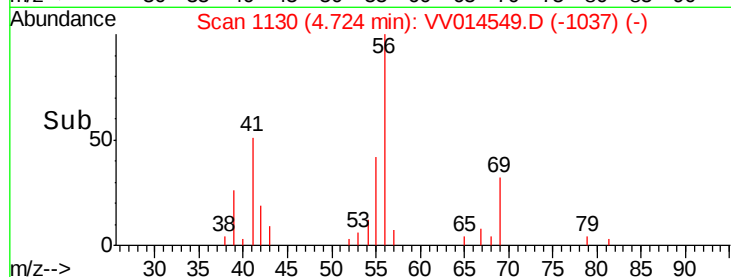
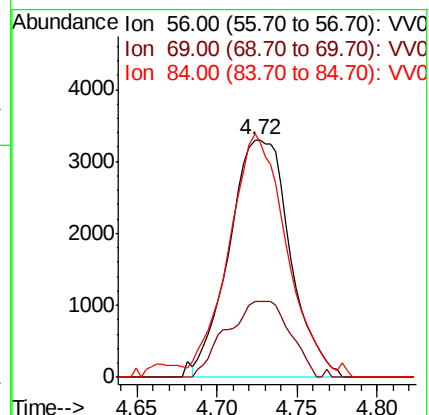
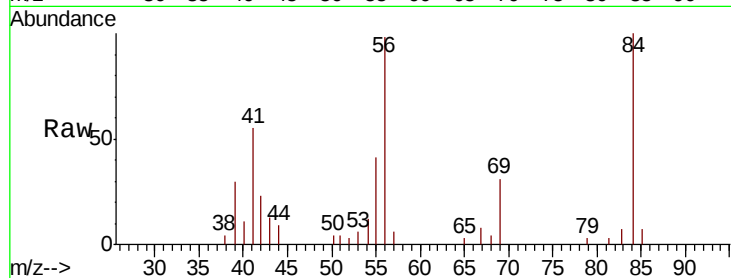
Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 56 Resp: 8585

Ion	Ratio	Lower	Upper
56	100		
69	21.0	25.2	37.8#
84	97.3	69.8	104.8



#30

1,1,1-Trichloroethane

Concen: 2.504 ug/L

RT: 4.66 min Scan# 1109

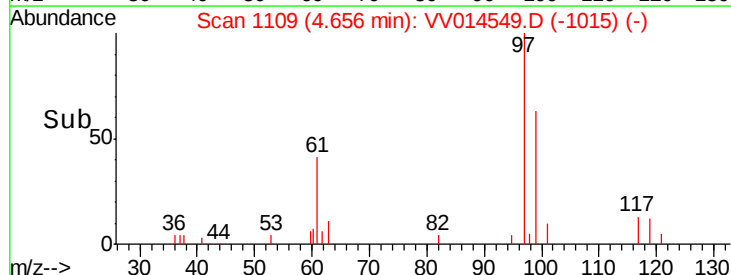
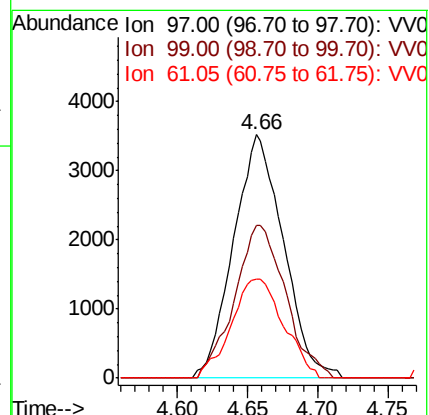
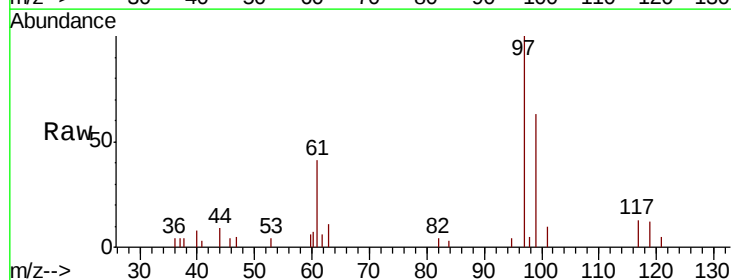
Delta R.T. 0.00 min

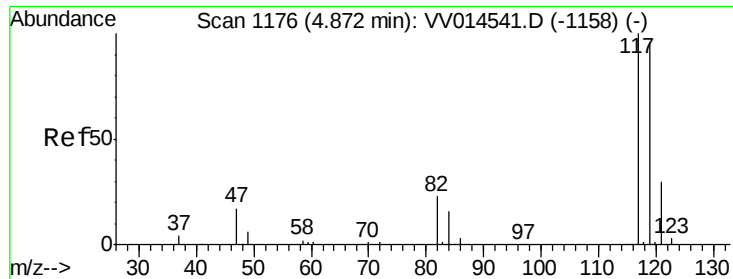
Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Tgt Ion: 97 Resp: 8718

Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.6	76.0
61	42.4	33.0	49.4

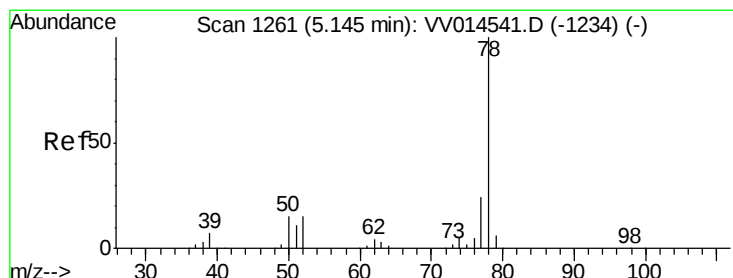
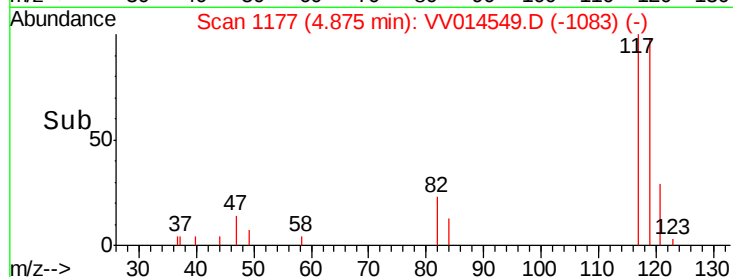
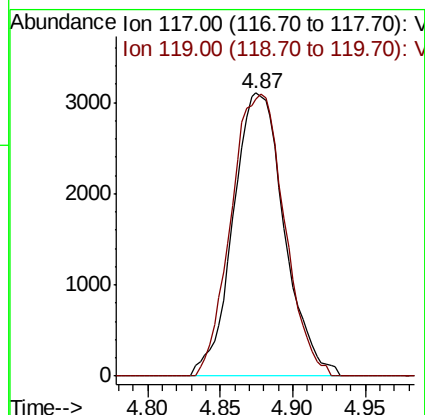
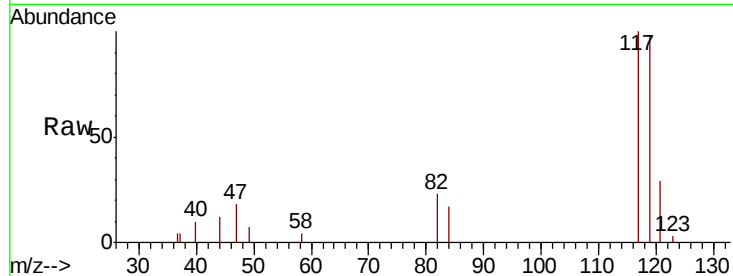




#31
Carbon tetrachloride
Concen: 2.488 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

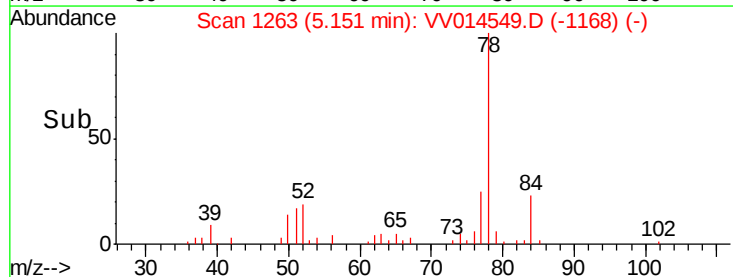
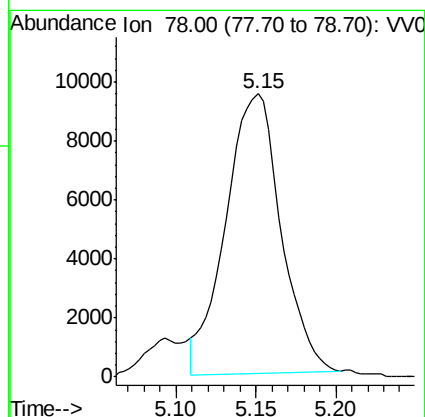
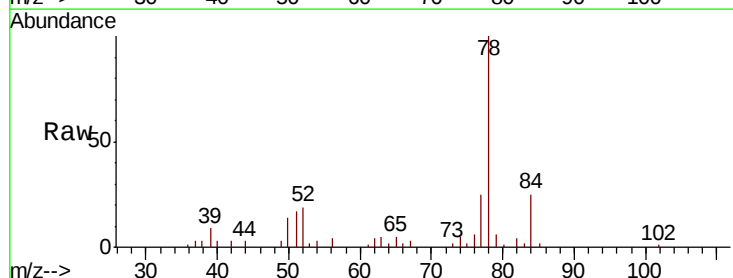
Instrument :
MSVOA_V
ClientSampleId :

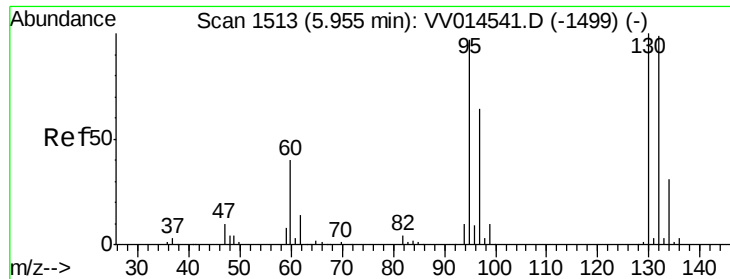
Tot Ion:117 Resp: 7641
Ion Ratio Lower Upper
117 100
119 103.3 76.7 115.1



#33
Benzene
Concen: 2.502 ug/L
RT: 5.15 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Tgt Ion: 78 Resp: 22434

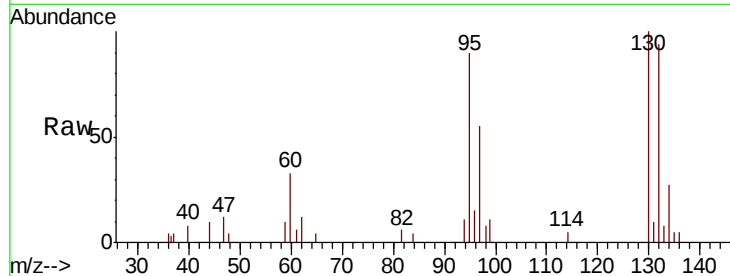




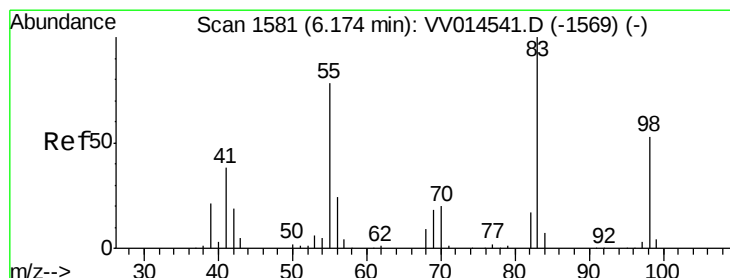
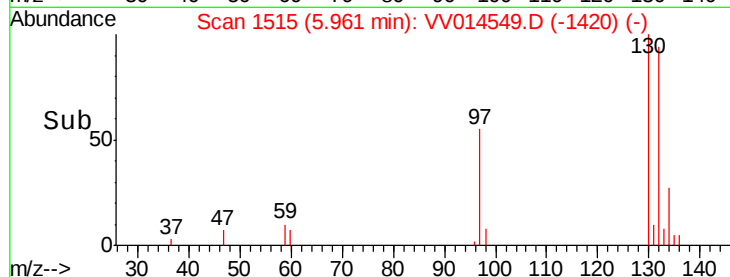
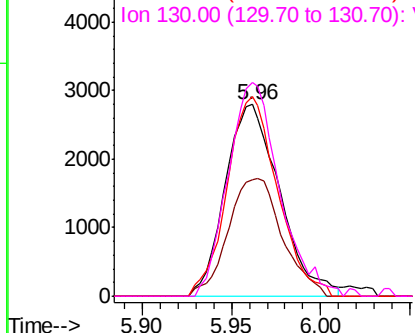
#34
 Trichloroethene
 Concen: 2.501 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.01 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 5944
 Ion Ratio Lower Upper
 95 100
 97 60.9 45.1 83.7
 132 104.3 67.7 125.7
 130 111.5 70.5 130.9

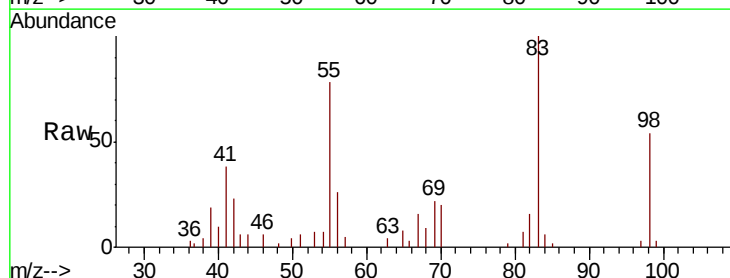


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

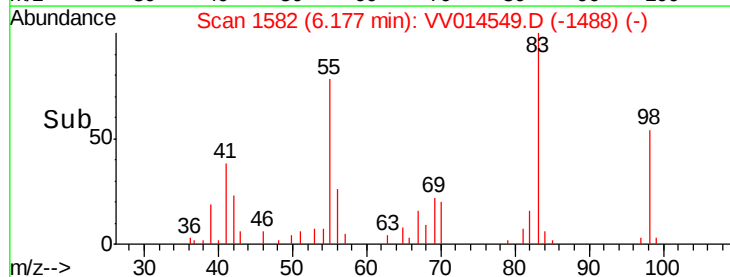
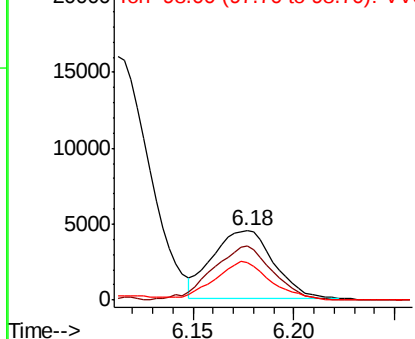


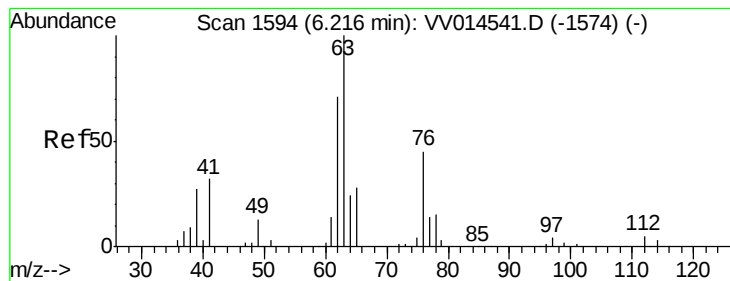
#35
 Methylcyclohexane
 Concen: 2.430 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

Tgt Ion: 83 Resp: 9439
 Ion Ratio Lower Upper
 83 100
 55 77.9 60.7 91.1
 98 51.8 39.4 59.0



Abundance Ion 83.00 (82.70 to 83.70): VV0
 Ion 55.00 (54.70 to 55.70): VV0
 Ion 98.00 (97.70 to 98.70): VV0





#37

1,2-Dichloropropane

Concen: 2.304 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA_V

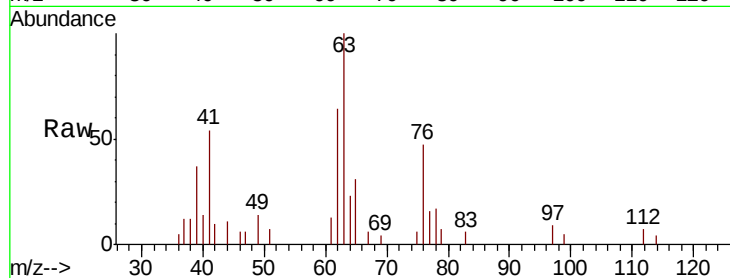
ClientSampleId :

Tot Ion: 63 Resp: 5263

Ion Ratio Lower Upper

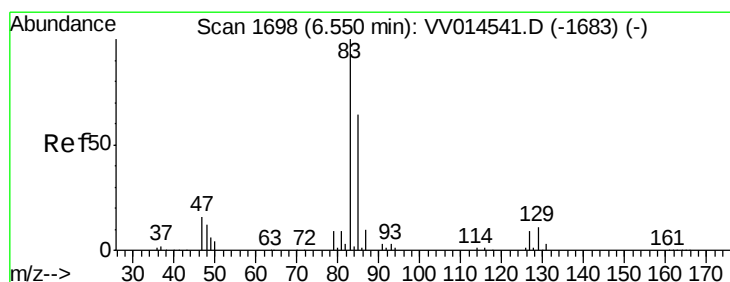
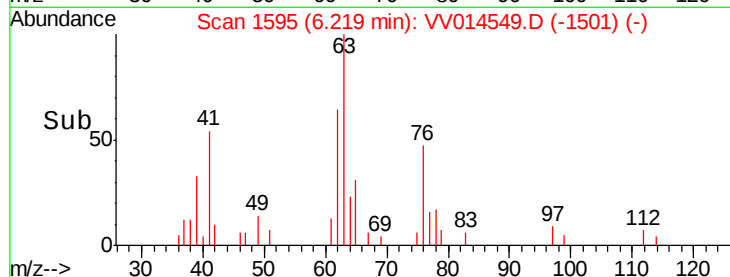
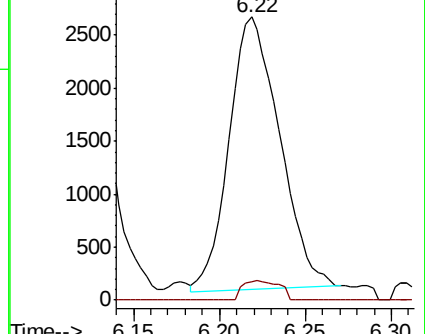
63 100

112 5.1 3.7 5.5



Abundance Ion 63.00 (62.70 to 63.70): VV014541.D (-1574) (-)

Ion 112.00 (111.70 to 112.70): VV014541.D (-1574) (-)



#38

Bromodichloromethane

Concen: 2.535 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

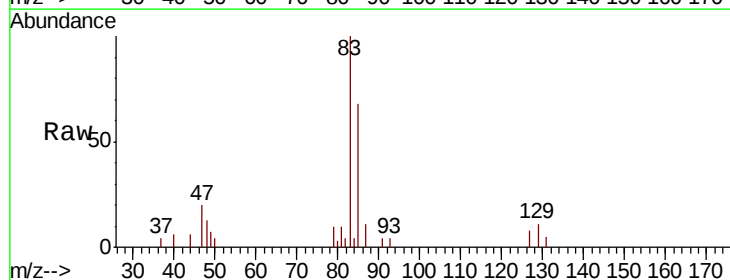
Tgt Ion: 83 Resp: 7772

Ion Ratio Lower Upper

83 100

85 67.7 44.4 82.4

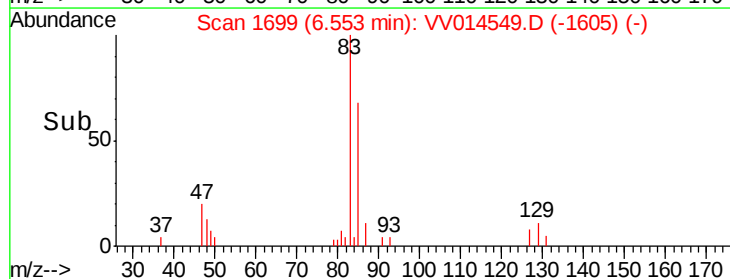
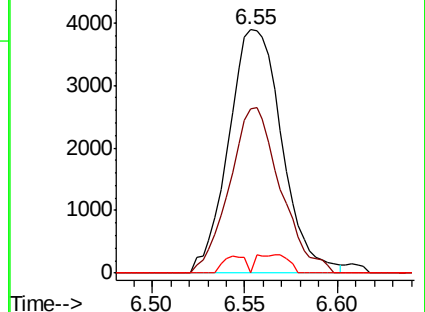
127 0.0 6.7 10.1#

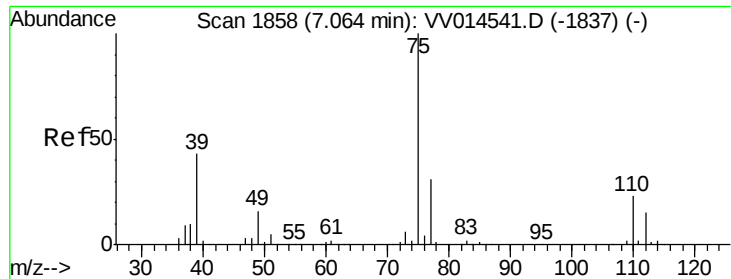


Abundance Ion 83.00 (82.70 to 83.70): VV014541.D (-1683) (-)

Ion 85.00 (84.70 to 85.70): VV014541.D (-1683) (-)

Ion 127.00 (126.70 to 127.70): VV014541.D (-1683) (-)

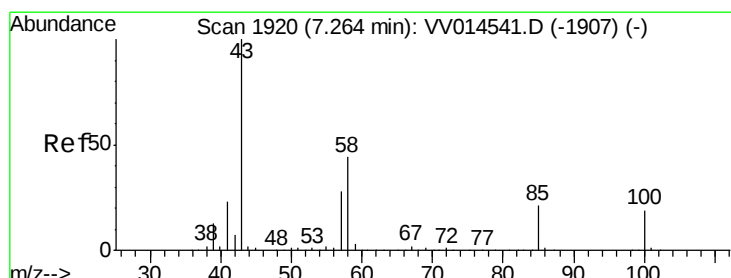
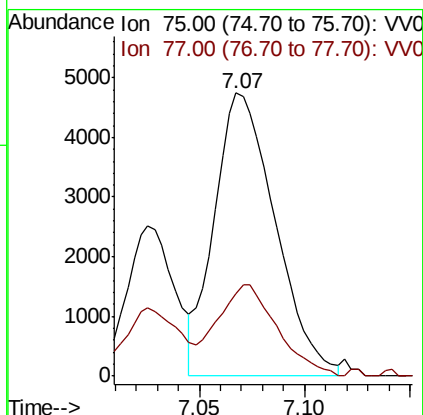
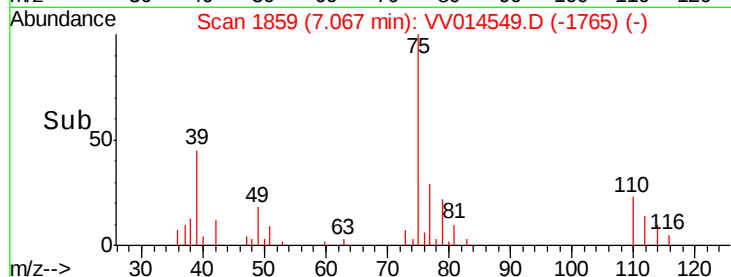
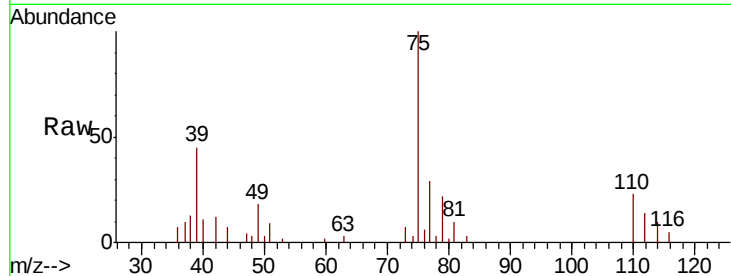




#39
 cis-1,3-Dichloropropene
 Concen: 2.493 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

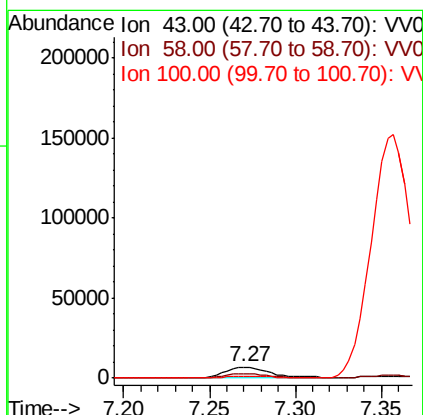
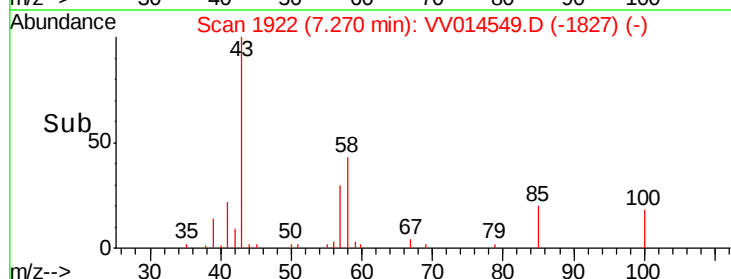
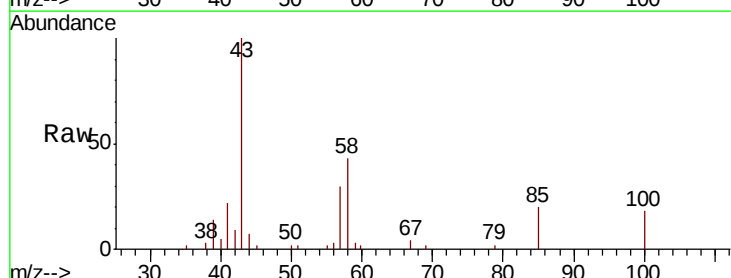
Instrument :
 MSVOA_V
 ClientSampled :

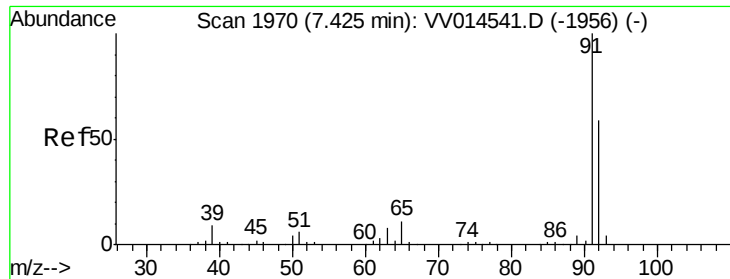
Tot Ion: 75 Resp: 9500
 Ion Ratio Lower Upper
 75 100
 77 29.3 22.7 42.1



#40
 4-Methyl-2-pentanone
 Concen: 4.390 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.01 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

Tgt Ion: 43 Resp: 12959
 Ion Ratio Lower Upper
 43 100
 58 41.4 33.2 49.8
 100 17.8 13.9 20.9





#42

Toluene

Concen: 2.581 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.01 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

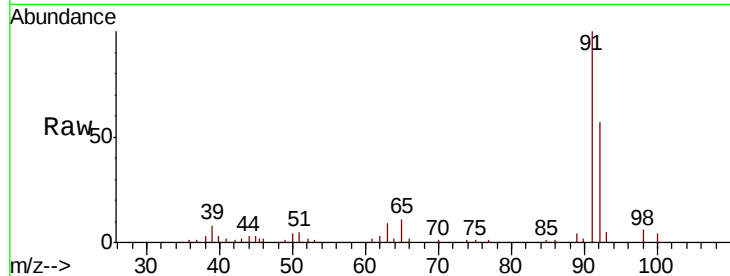
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 24815

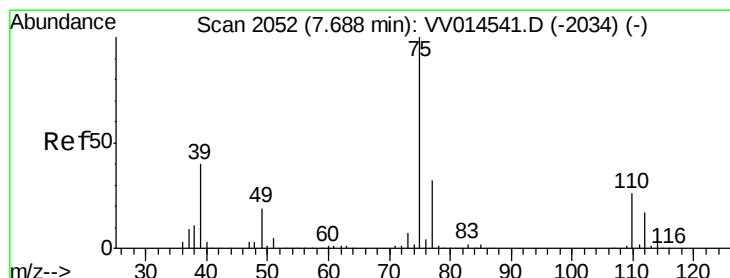
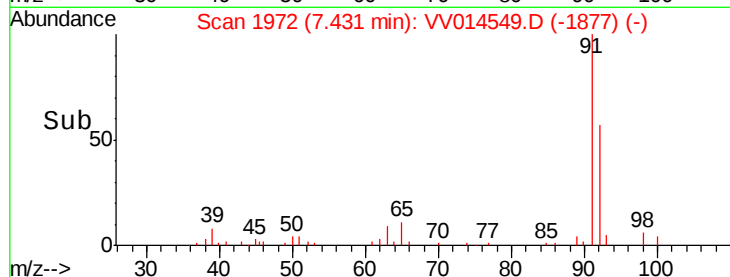
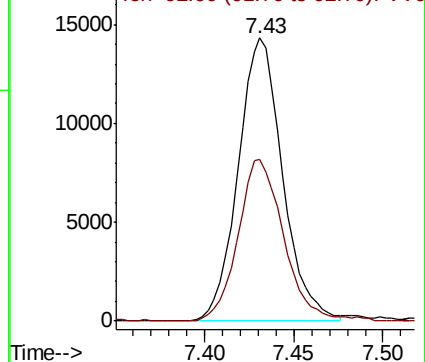
Ion Ratio Lower Upper

91 100

92 57.4 41.6 77.2



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 92.00 (91.70 to 92.70): VV0



#44

trans-1,3-Dichloropropene

Concen: 2.418 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.01 min

Lab File: VV014549.D

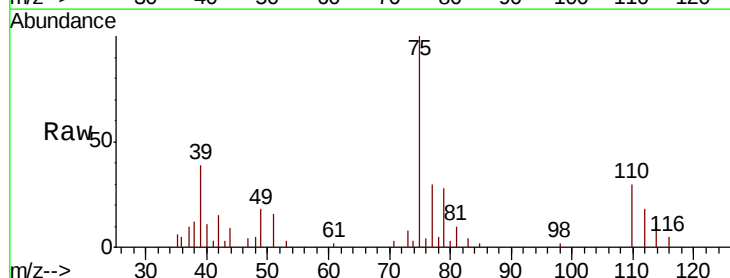
Acq: 10 Feb 2020 14:09

Tgt Ion: 75 Resp: 8260

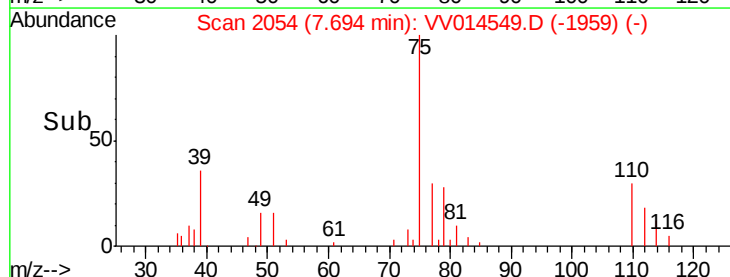
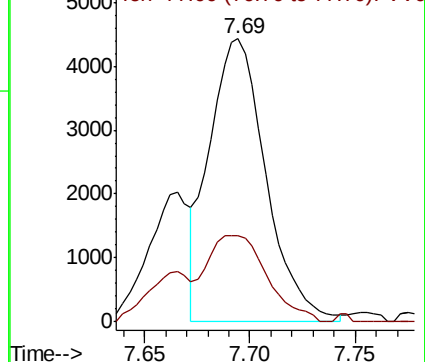
Ion Ratio Lower Upper

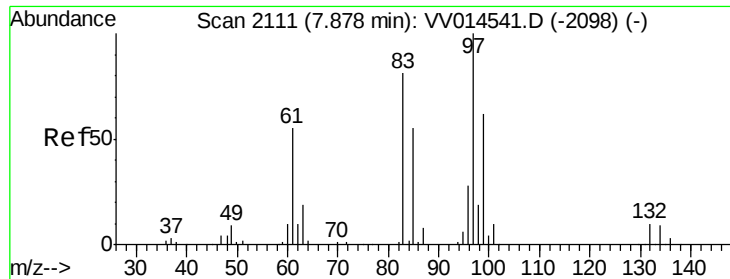
75 100

77 30.2 22.2 41.2



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0

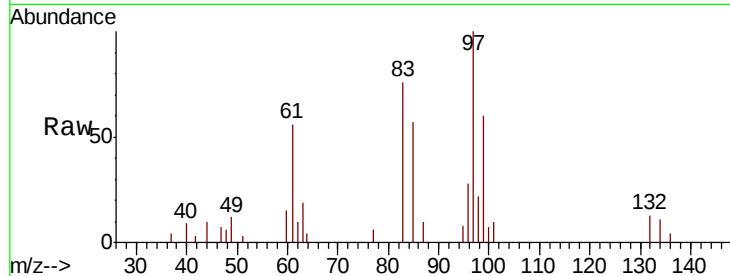




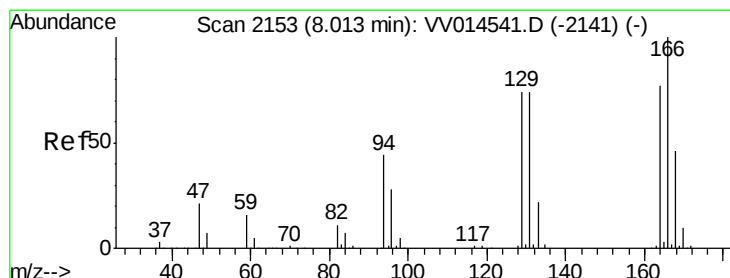
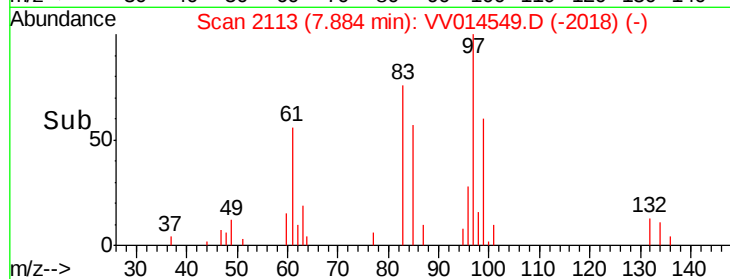
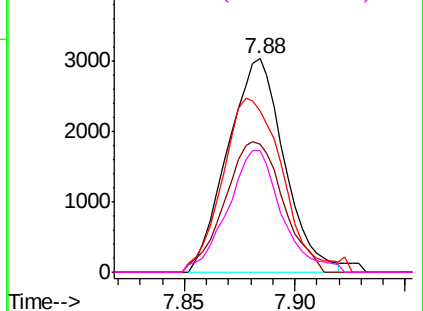
#45
1,1,2-Trichloroethane
Concen: 2.458 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. 0.01 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	97	Resp:	5386
Ion	Ratio	Lower	Upper
97	100		
99	59.9	44.5	82.7
83	75.5	60.1	111.5
85	57.0	38.1	70.9

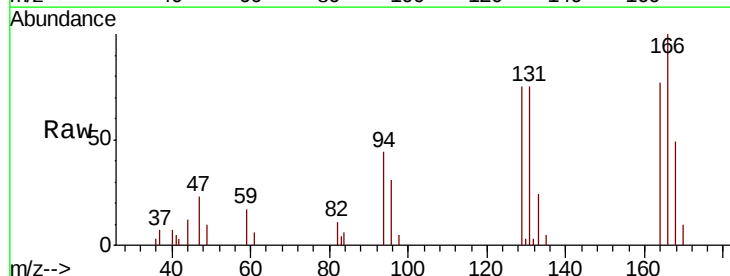


Abundance Ion 97.00 (96.70 to 97.70): VV014549.D (-2098) (-)
Ion 99.00 (98.70 to 99.70): VV014549.D (-2098) (-)
Ion 83.00 (82.70 to 83.70): VV014549.D (-2098) (-)
Ion 85.00 (84.70 to 85.70): VV014549.D (-2098) (-)

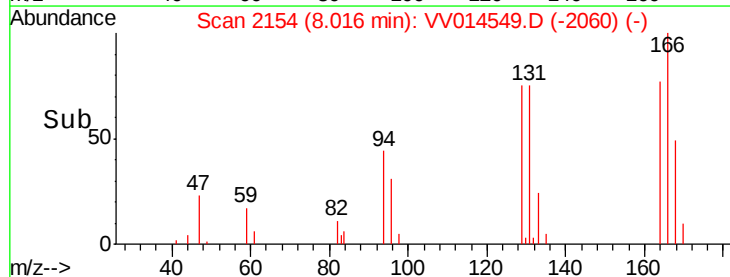
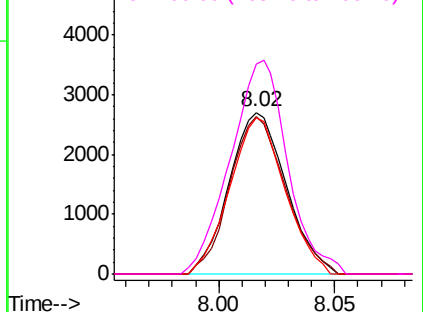


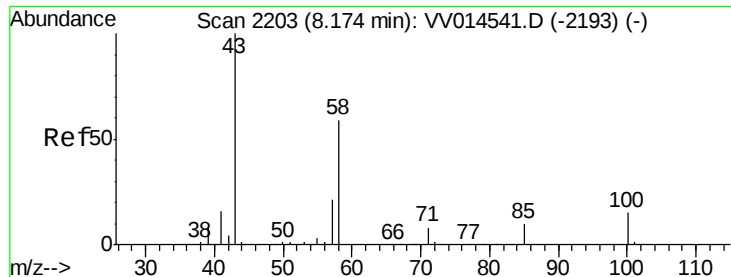
#46
Tetrachloroethene
Concen: 2.547 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Tgt Ion:	164	Resp:	4618
Ion	Ratio	Lower	Upper
164	100		
129	97.4	68.0	126.4
131	96.5	63.4	117.8
166	129.5	86.9	161.3



Abundance Ion 164.00 (163.70 to 164.70): VV014549.D (-2060) (-)
Ion 129.00 (128.70 to 129.70): VV014549.D (-2060) (-)
Ion 131.00 (130.70 to 131.70): VV014549.D (-2060) (-)
Ion 166.00 (165.70 to 166.70): VV014549.D (-2060) (-)

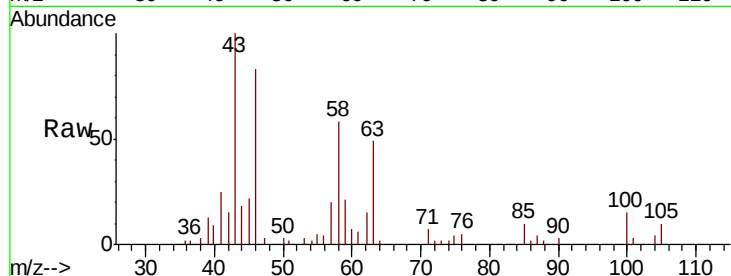




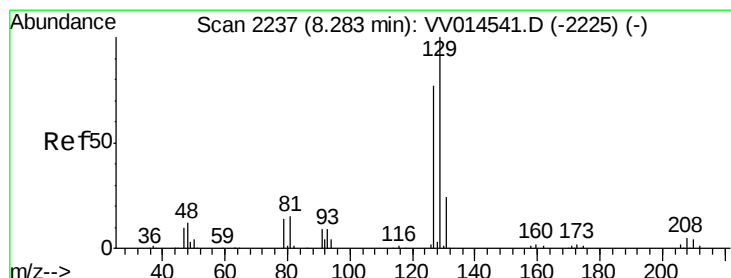
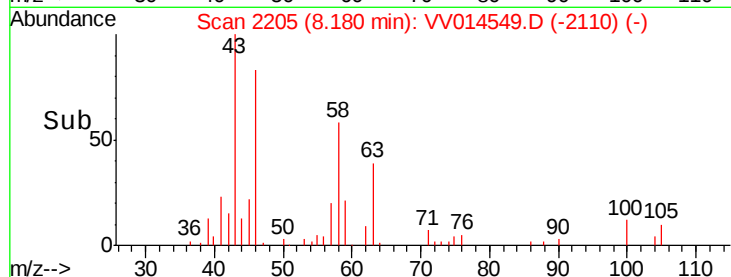
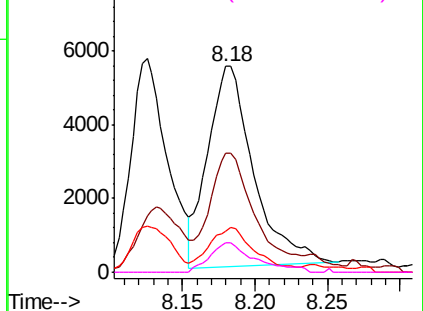
#48
2-Hexanone
Concen: 5.269 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.01 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 11972
Ion Ratio Lower Upper
43 100
58 46.3 45.5 68.3
57 22.5 15.8 23.6
100 14.6 10.8 16.2

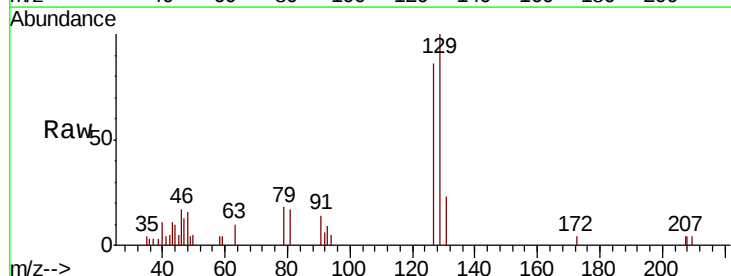


Abundance Ion 43.00 (42.70 to 43.70): VV014549.D (-2193) (-)
Ion 58.00 (57.70 to 58.70): VV014549.D (-2193) (-)
Ion 57.00 (56.70 to 57.70): VV014549.D (-2193) (-)
Ion 100.00 (99.70 to 100.70): VV014549.D (-2193) (-)

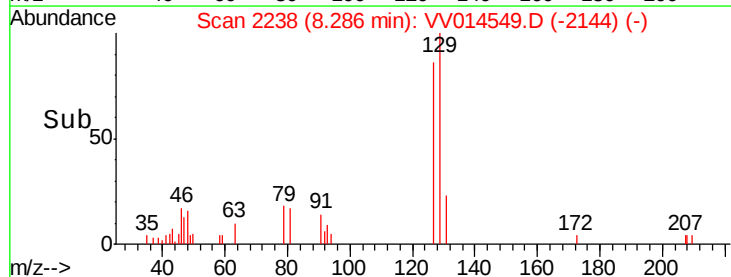
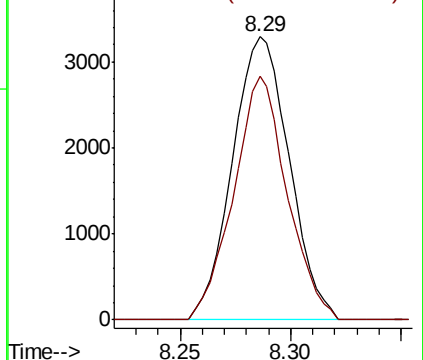


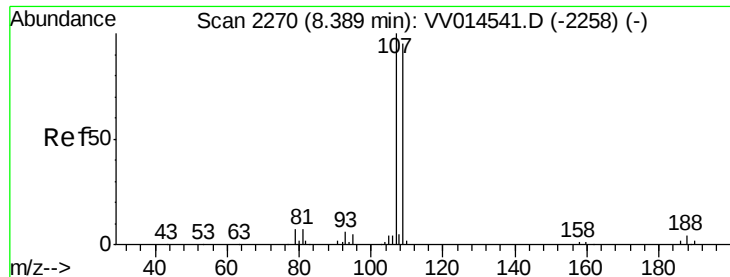
#49
Dibromochloromethane
Concen: 2.377 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Tgt Ion: 129 Resp: 5881
Ion Ratio Lower Upper
129 100
127 86.0 54.1 100.5



Abundance Ion 129.00 (128.70 to 129.70): VV014549.D (-2225) (-)
Ion 127.00 (126.70 to 127.70): VV014549.D (-2225) (-)

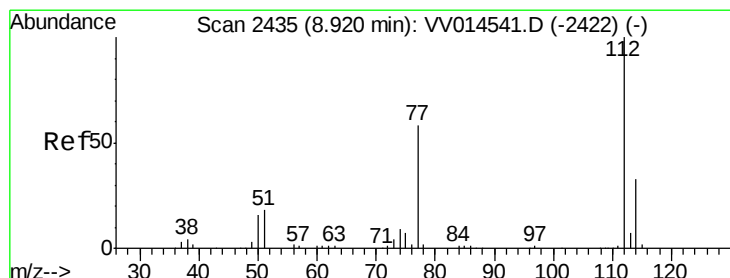
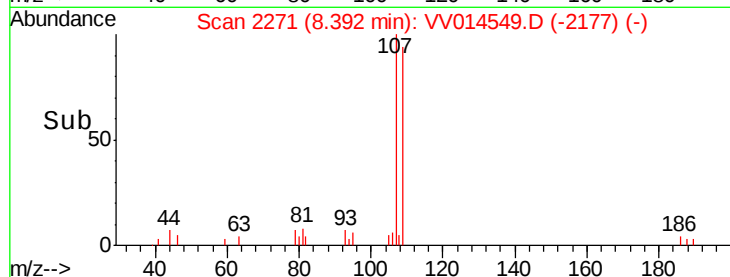
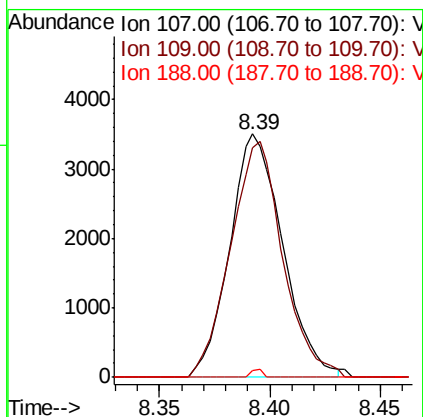
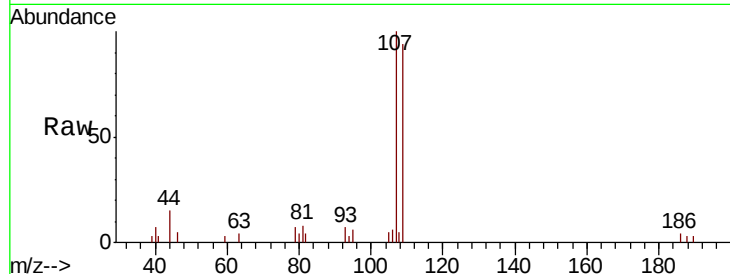




#50
1,2-Dibromoethane
Concen: 2.474 ug/L
RT: 8.39 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

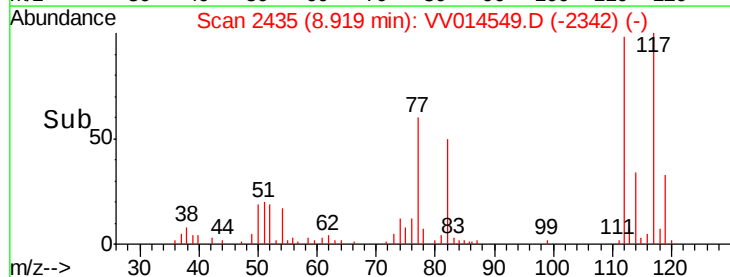
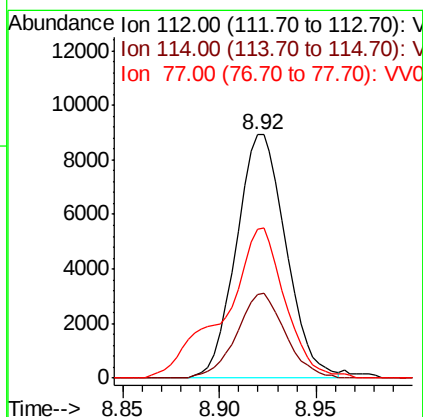
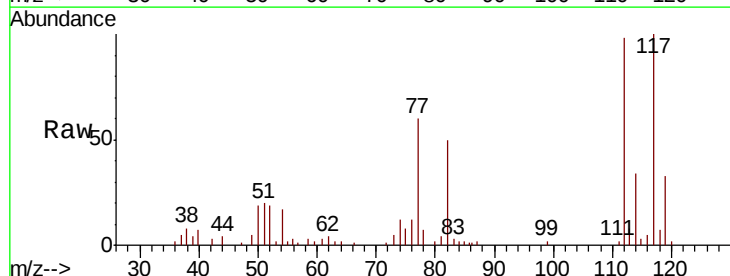
Instrument :
MSVOA_V
ClientSampleId :

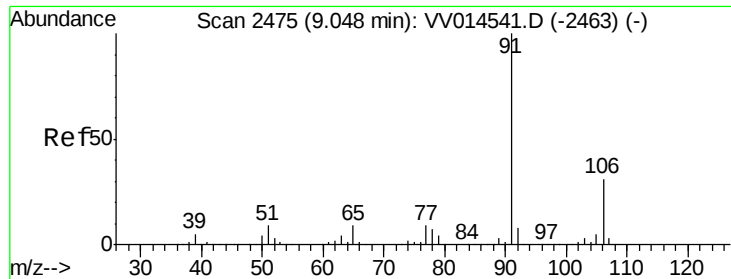
Tot Ion:107 Resp: 5872
Ion Ratio Lower Upper
107 100
109 94.0 65.2 121.2
188 2.9 2.6 4.0



#51
Chlorobenzene
Concen: 2.538 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. -0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Tgt Ion:112 Resp: 15937
Ion Ratio Lower Upper
112 100
114 34.3 22.3 41.5
77 61.2 47.3 70.9





#52

Ethylbenzene

Concen: 2.493 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA_V

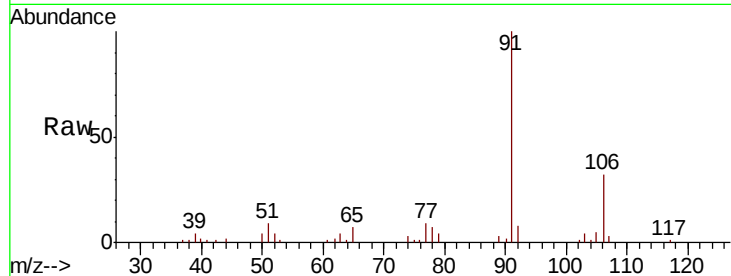
ClientSampled :

Tot Ion: 91 Resp: 26882

Ion Ratio Lower Upper

91 100

106 31.6 21.5 39.9



Abundance Ion 91.00 (90.70 to 91.70): VV014541.D (-2463) (-)

Ion 106.00 (105.70 to 106.70): VV014541.D (-2463) (-)

9.05

15000

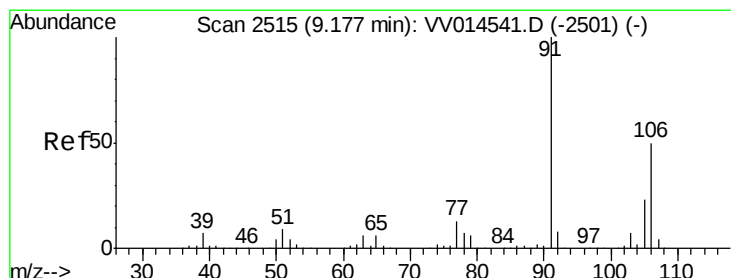
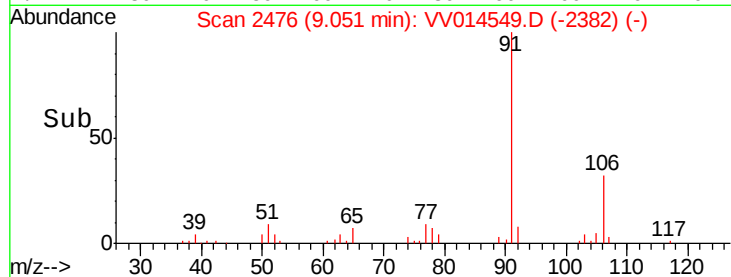
10000

5000

0

Time-->

9.00 9.05 9.10



#53

m,p-Xylene

Concen: 2.470 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV014549.D

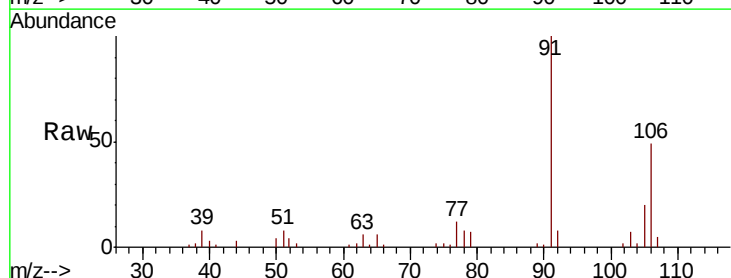
Acq: 10 Feb 2020 14:09

Tgt Ion: 106 Resp: 10260

Ion Ratio Lower Upper

106 100

91 203.7 141.4 262.6



Abundance Ion 106.00 (105.70 to 106.70): VV014541.D (-2501) (-)

Ion 91.00 (90.70 to 91.70): VV014541.D (-2501) (-)

9.18

15000

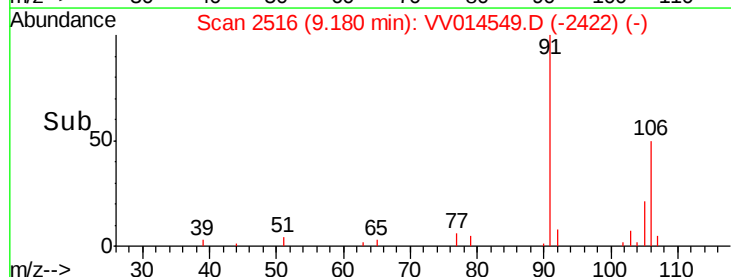
10000

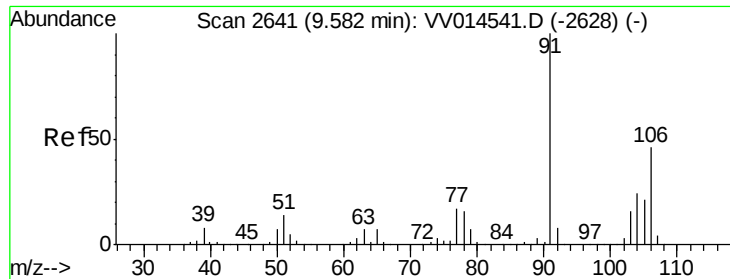
5000

0

Time-->

9.15 9.20 9.25

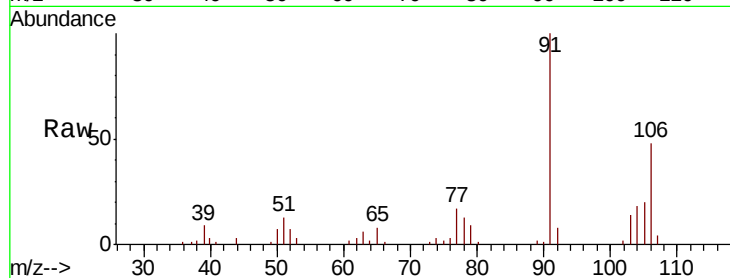




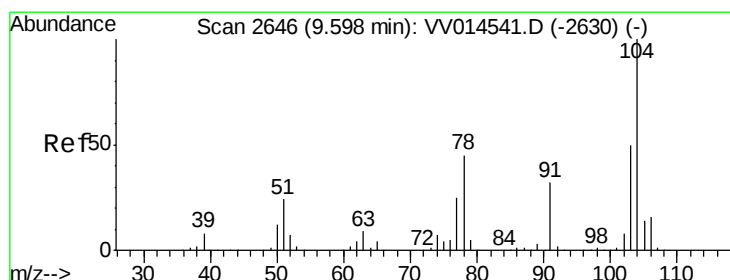
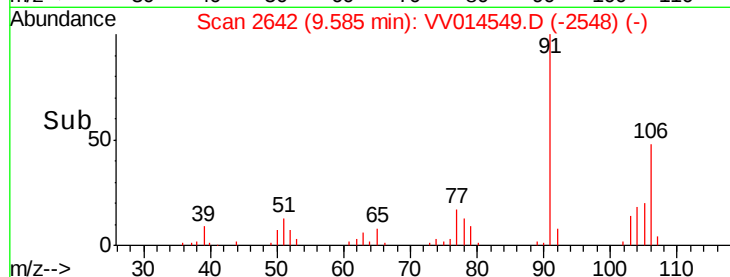
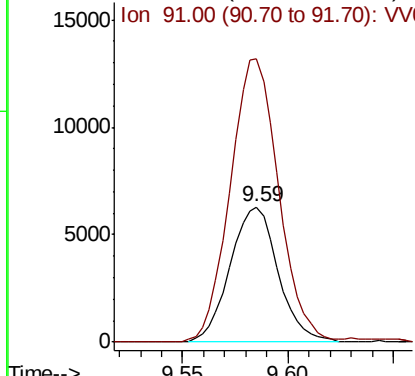
#54
o-Xylene
Concen: 2.505 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 9956
Ion Ratio Lower Upper
106 100
91 209.8 149.4 277.4

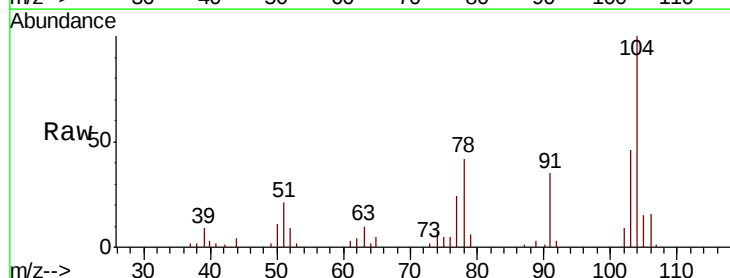


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

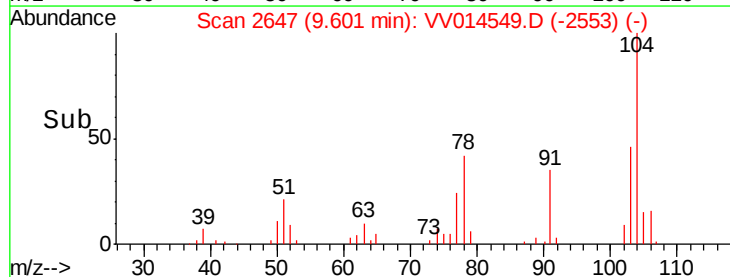
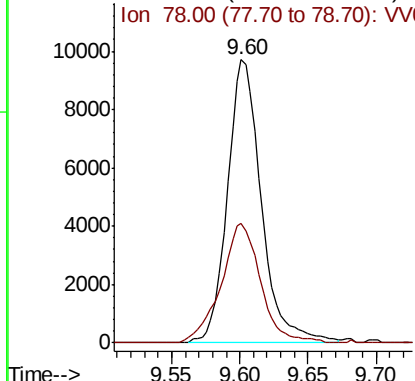


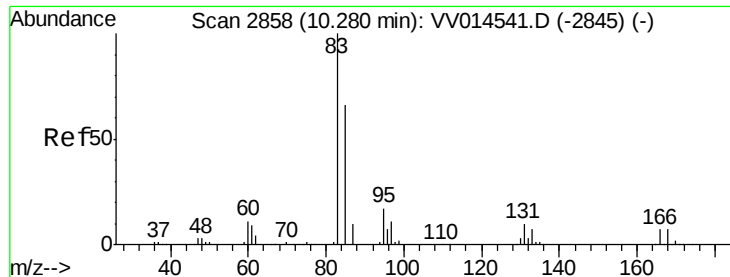
#55
Styrene
Concen: 2.479 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. 0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Tgt Ion:104 Resp: 16844
Ion Ratio Lower Upper
104 100
78 42.1 31.6 58.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0

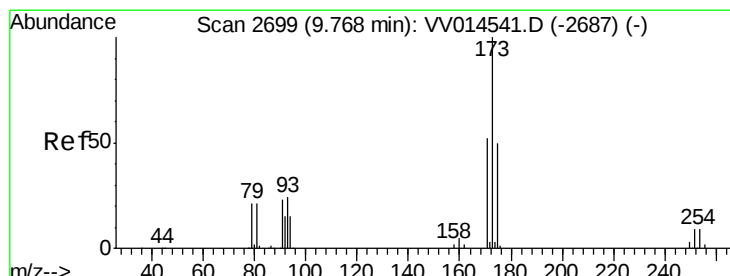
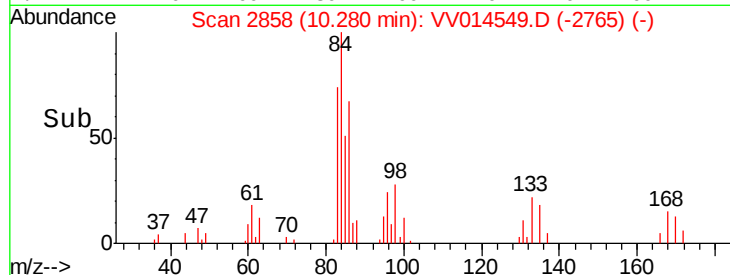
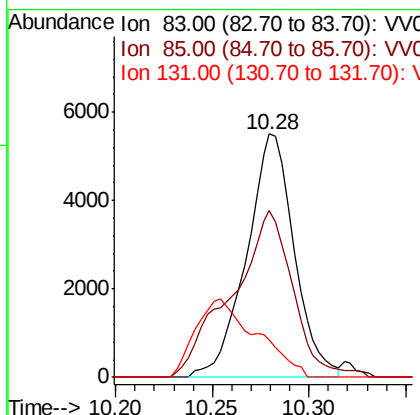
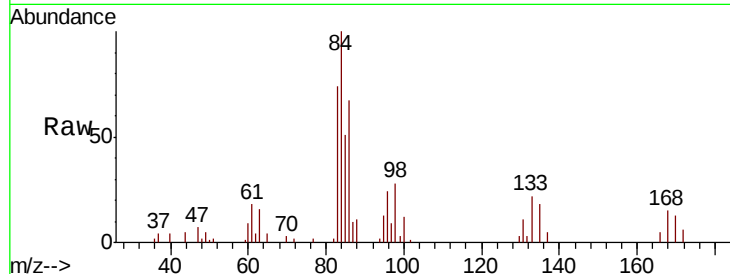




#57
 1,1,2,2-Tetrachloroethane
 Concen: 2.746 ug/L
 RT: 10.28 min Scan# 2858
 Delta R.T. -0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

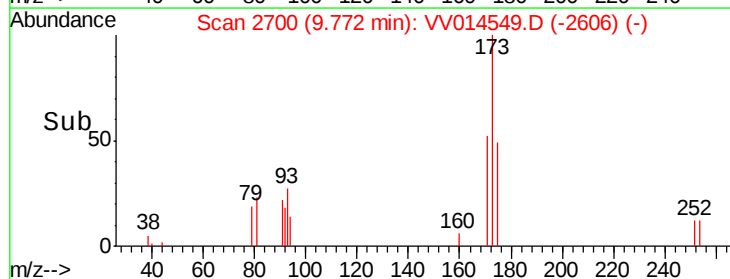
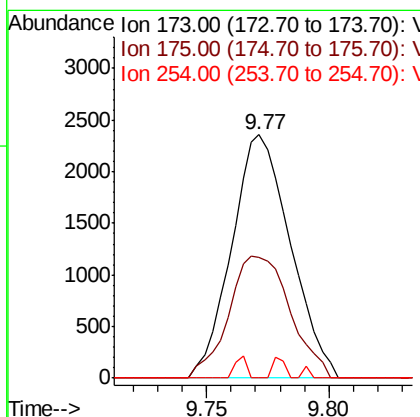
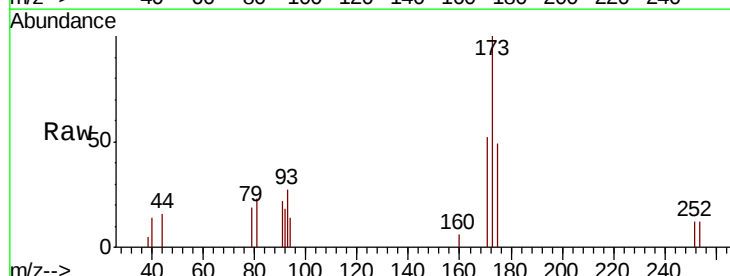
Instrument :
 MSVOA_V
 ClientSampleId :

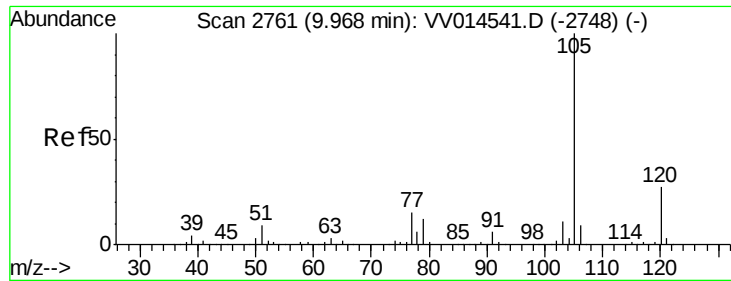
Tot Ion: 83 Resp: 9432
 Ion Ratio Lower Upper
 83 100
 85 68.5 45.2 84.0
 131 15.3 7.8 11.8#



#59
 Bromoform
 Concen: 2.300 ug/L
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

Tgt Ion: 173 Resp: 3929
 Ion Ratio Lower Upper
 173 100
 175 52.3 37.8 56.8
 254 1.8 7.0 10.6#





#60

Isopropylbenzene

Concen: 2.530 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA_V

ClientSampled :

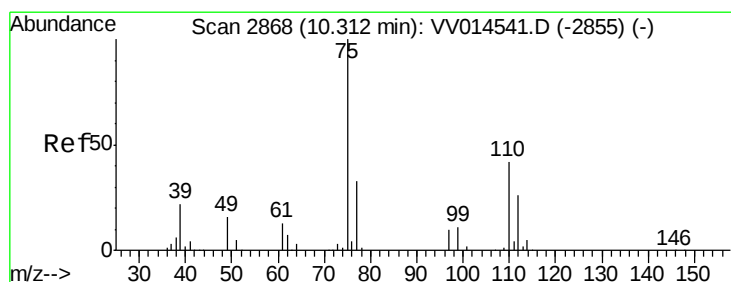
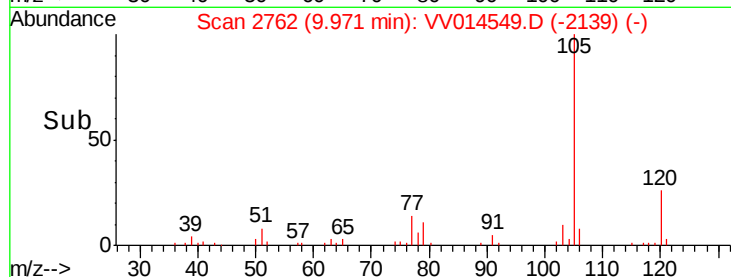
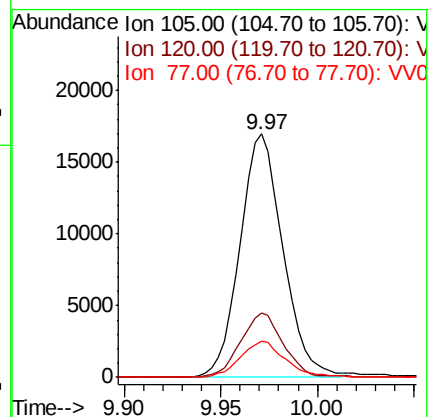
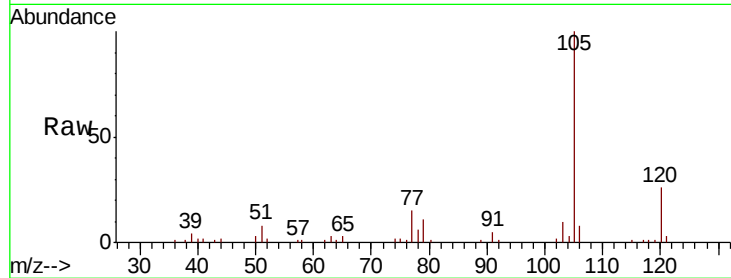
Tot Ion:105 Resp: 26194

Ion Ratio Lower Upper

105 100

120 26.1 21.5 32.3

77 15.4 12.2 18.4



#61

1,2,3-Trichloropropane

Concen: 2.505 ug/L

RT: 10.31 min Scan# 2868

Delta R.T. -0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

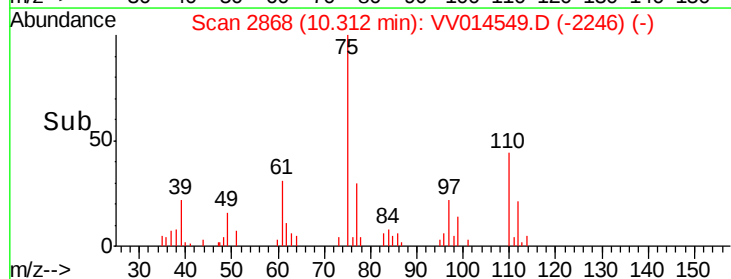
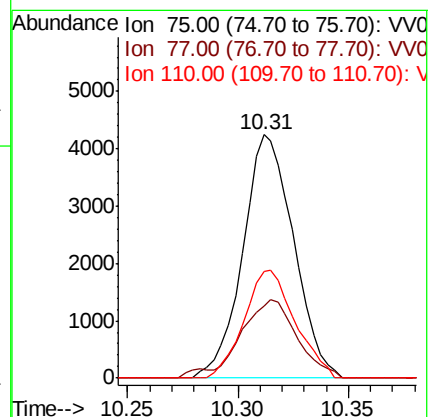
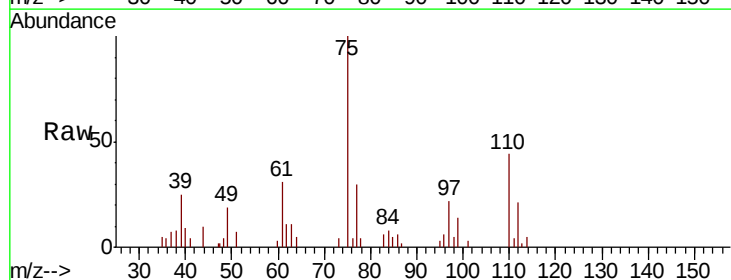
Tgt Ion: 75 Resp: 6792

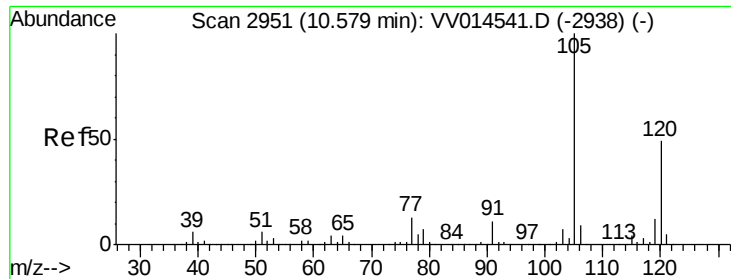
Ion Ratio Lower Upper

75 100

77 34.8 25.8 38.8

110 44.3 32.4 48.6

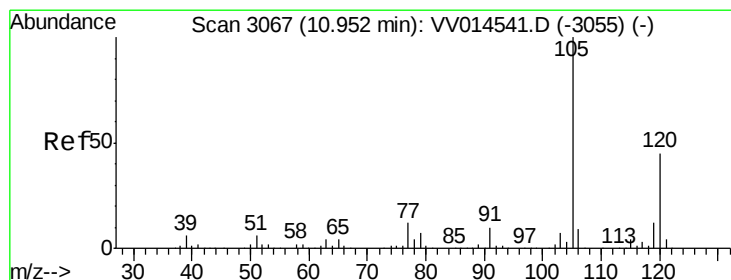
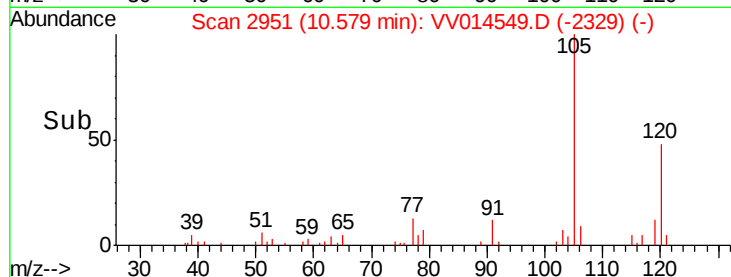
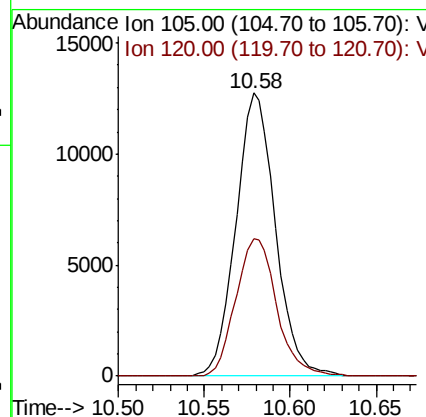
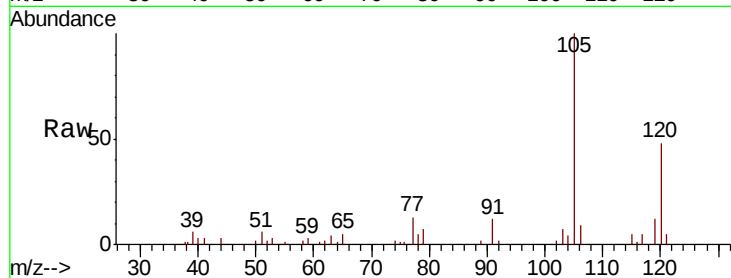




#62
 1,3,5-Trimethylbenzene
 Concen: 2.293 ug/L
 RT: 10.58 min Scan# 2951
 Delta R.T. -0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

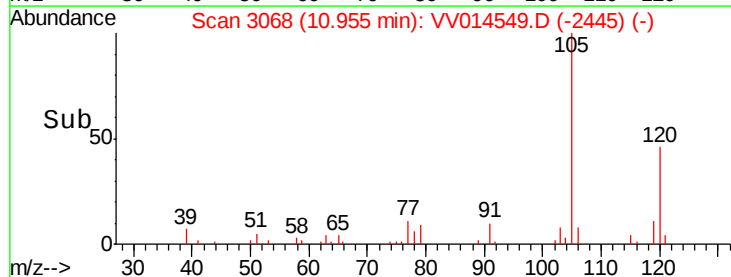
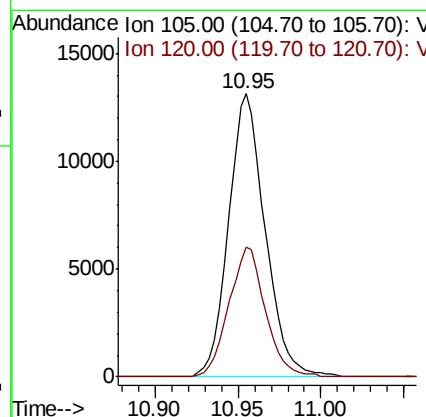
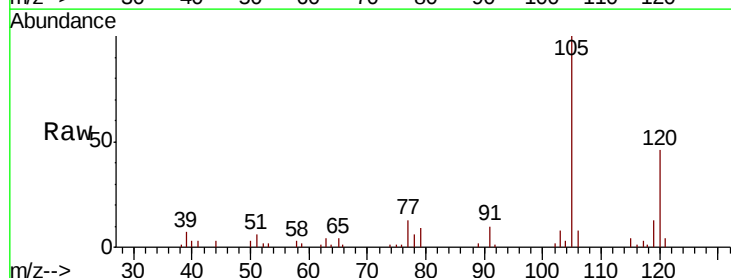
Instrument :
 MSVOA_V
 ClientSampleId :

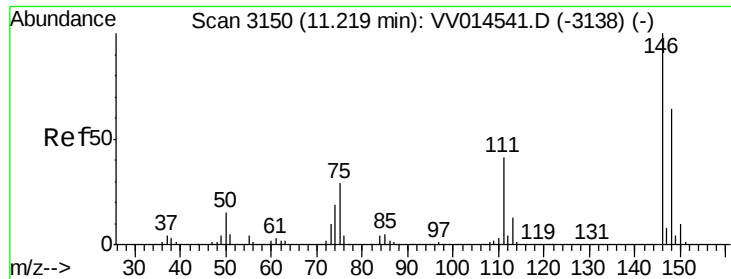
Tot Ion:105 Resp: 20327
 Ion Ratio Lower Upper
 105 100
 120 50.2 39.0 58.6



#63
 1,2,4-Trimethylbenzene
 Concen: 2.303 ug/L
 RT: 10.95 min Scan# 3068
 Delta R.T. 0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

Tgt Ion:105 Resp: 20130
 Ion Ratio Lower Upper
 105 100
 120 45.6 36.2 54.4

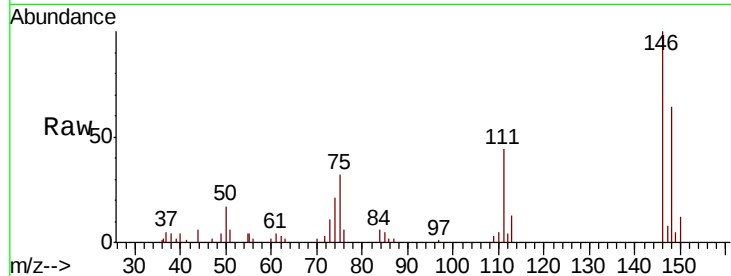




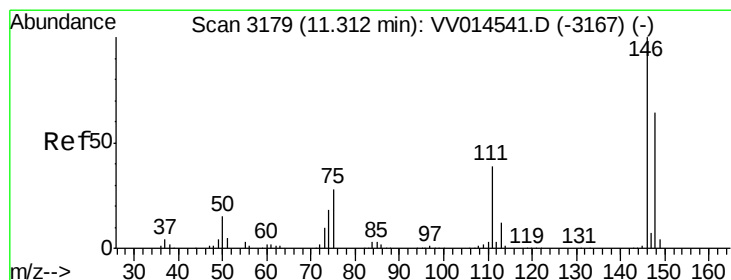
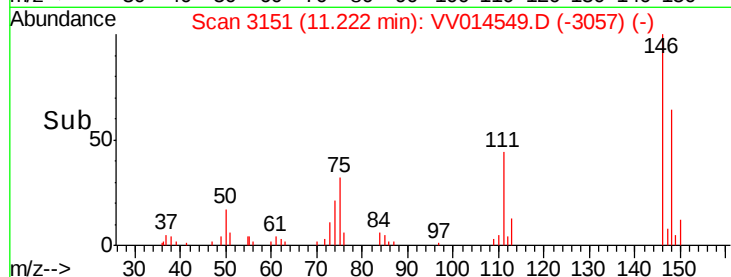
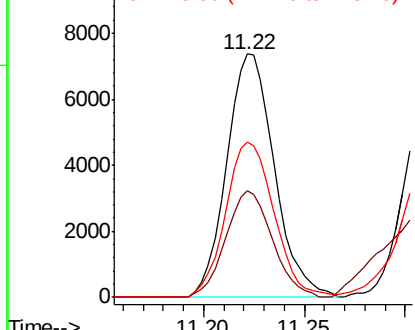
#64
 1,3-Dichlorobenzene
 Concen: 2.496 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:146 Resp: 12192
 Ion Ratio Lower Upper
 146 100
 111 43.7 28.9 53.7
 148 63.6 44.4 82.5

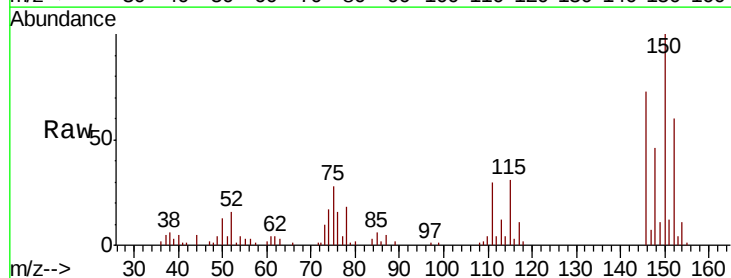


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

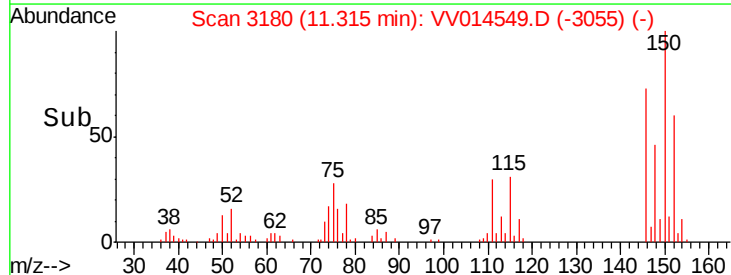
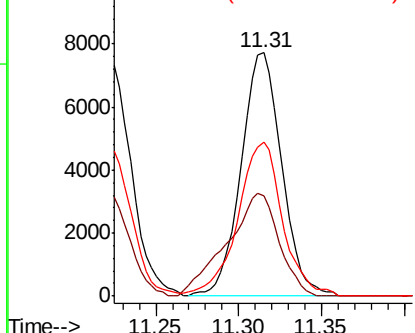


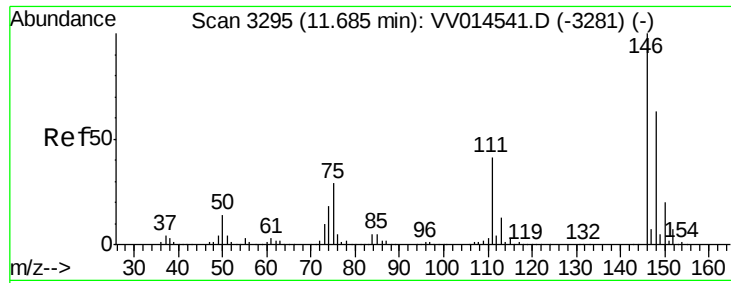
#65
 1,4-Dichlorobenzene
 Concen: 2.618 ug/L
 RT: 11.31 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

Tgt Ion:146 Resp: 13165
 Ion Ratio Lower Upper
 146 100
 111 41.0 28.1 52.3
 148 63.3 44.4 82.4



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





#67

1,2-Dichlorobenzene

Concen: 2.721 ug/L

RT: 11.68 min Scan# 3295

Delta R.T. -0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

Instrument :

MSVOA_V

ClientSampled :

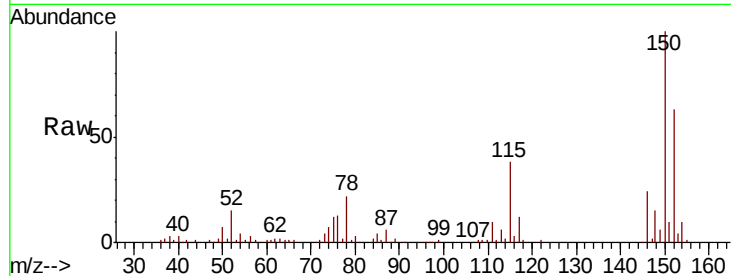
Tot Ion:146 Resp: 12886

Ion Ratio Lower Upper

146 100

111 43.7 34.6 51.8

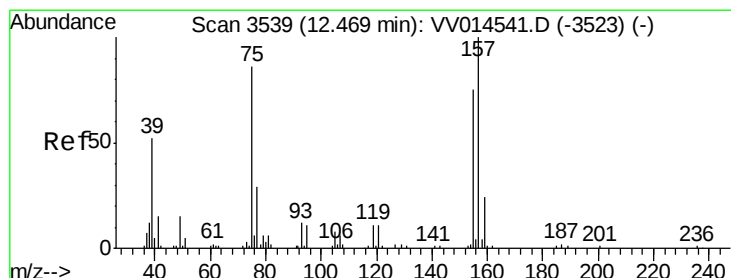
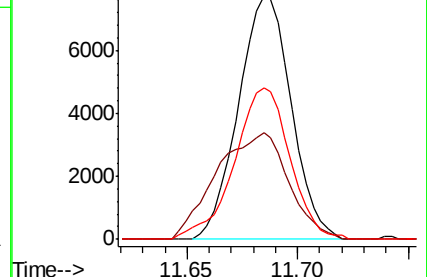
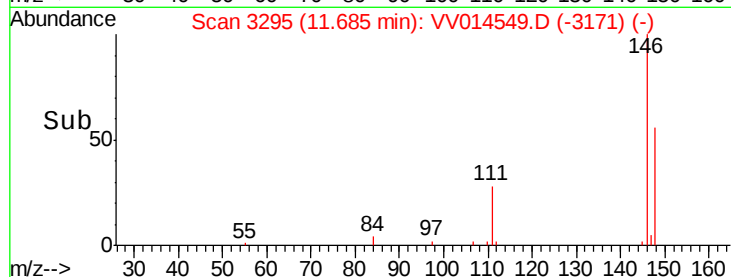
148 62.4 50.2 75.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2-Dibromo-3-chloropropane

Concen: 2.495 ug/L

RT: 12.47 min Scan# 3540

Delta R.T. 0.00 min

Lab File: VV014549.D

Acq: 10 Feb 2020 14:09

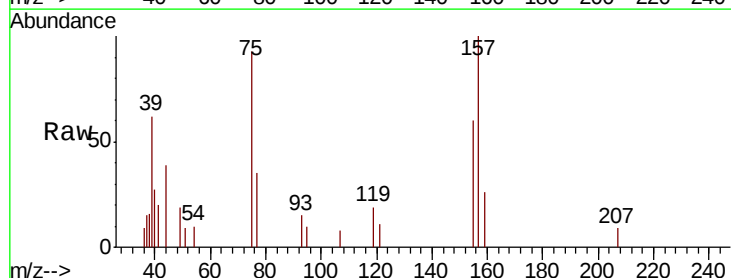
Tgt Ion: 75 Resp: 1895

Ion Ratio Lower Upper

75 100

155 64.7 68.3 102.5#

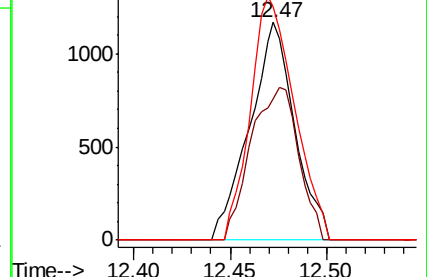
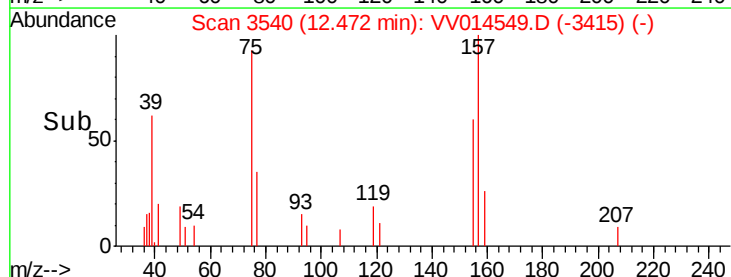
157 107.4 87.1 130.7

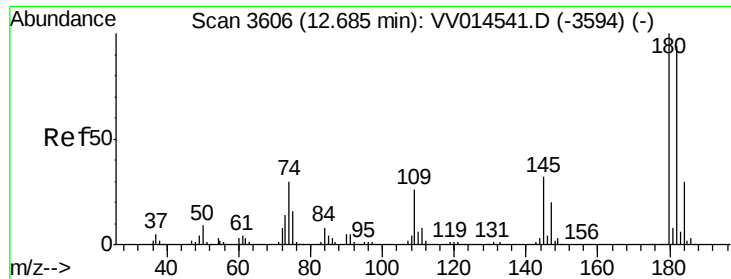


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

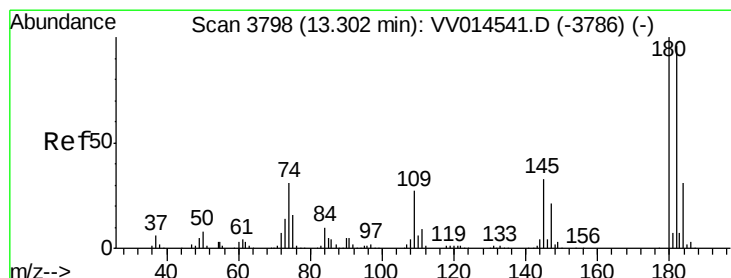
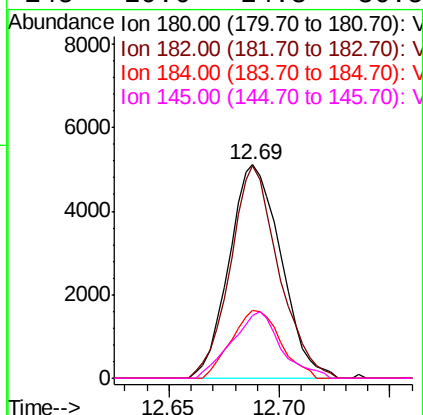
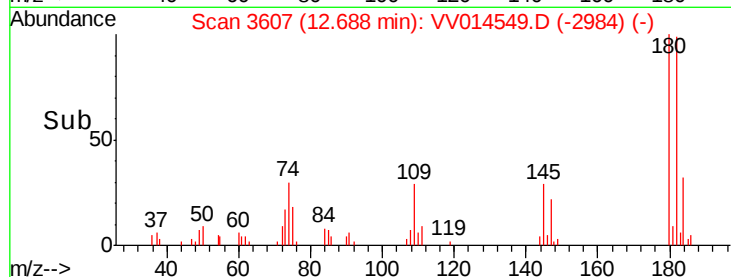
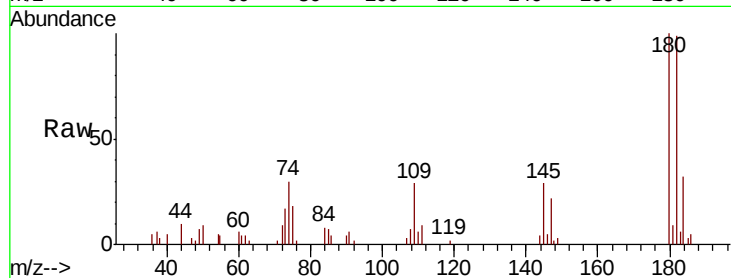




#69
 1,3,5-Trichlorobenzene
 Concen: 2.421 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

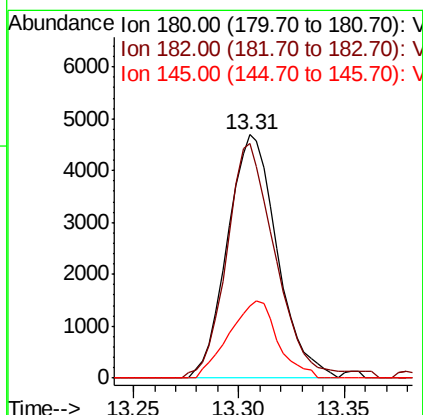
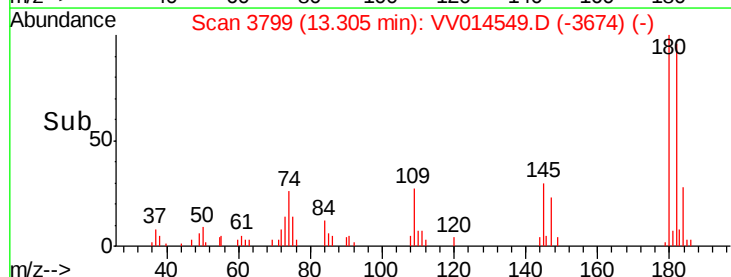
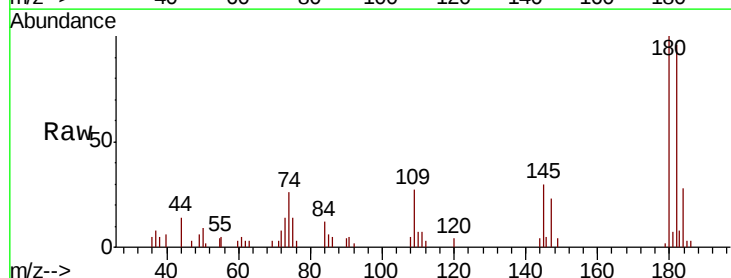
Instrument :
 MSVOA_V
 ClientSampleId :

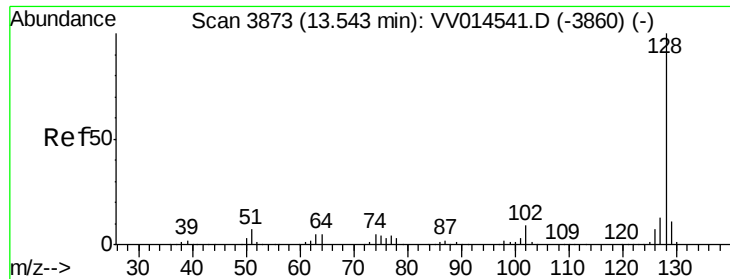
Tot Ion	Ratio	Lower	Upper
180	100		
182	92.6	75.0	112.4
184	30.1	24.2	36.2
145	29.6	24.3	36.5



#70
 1,2,4-trichlorobenzene
 Concen: 2.423 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV014549.D
 Acq: 10 Feb 2020 14:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.2	76.0	114.0
145	31.1	25.3	37.9

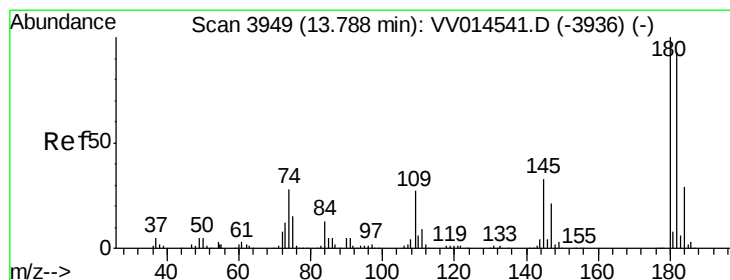
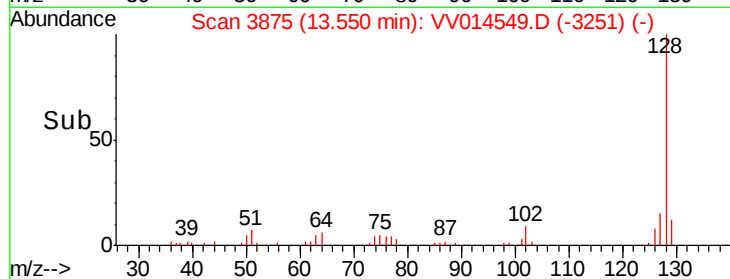
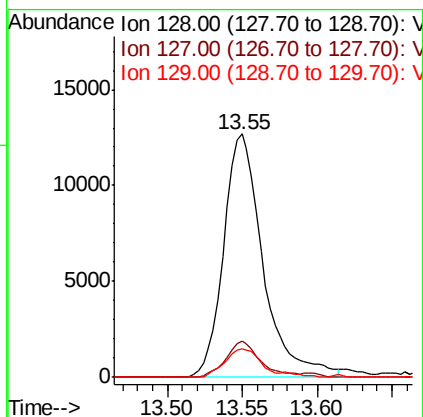
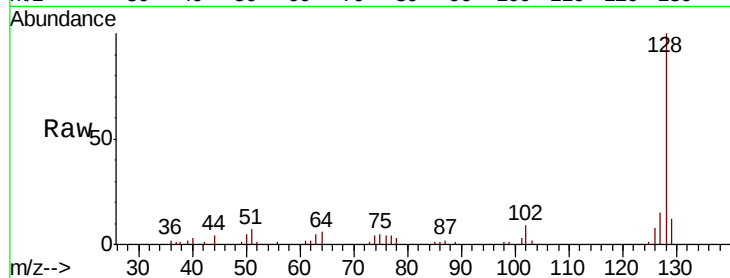




#71
Naphthalene
Concen: 2.244 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.01 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:128 Resp: 23291
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.6 8.7 13.1



#72
1,2,3-Trichlorobenzene
Concen: 2.220 ug/L
RT: 13.79 min Scan# 3949
Delta R.T. -0.00 min
Lab File: VV014549.D
Acq: 10 Feb 2020 14:09

Tgt Ion:180 Resp: 6815
Ion Ratio Lower Upper
180 100
182 98.0 75.2 112.8
145 35.7 27.1 40.7

