

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052220\
 Data File : VV016174.D
 Acq On : 22 May 2020 16:37
 Operator : SY/MD
 Sample : L2725-11DL 5X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 23 05:10:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 23 05:08:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.65	114	126565	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	124529	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	64648	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	42317	6.16	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	123.20%
7) Chloroethane-d5	1.58	69	36887	5.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	113.40%
11) 1,1-Dichloroethene-d2	2.13	63	65971	4.47	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.40%
20) 2-Butanone-d5	3.93	46	82293	42.02	ug/L	-0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.04%
24) Chloroform-d	4.38	84	78964	5.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.20%
26) 1,2-Dichloroethane-d4	5.06	65	40765	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
32) Benzene-d6	5.08	84	154968	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.60%
36) 1,2-Dichloropropane-d6	6.10	67	46897	5.19	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	103.80%
41) Toluene-d8	7.34	98	142346	5.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.60%
45) trans-1,3-Dichloropropene-	7.65	79	15292	4.31	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.20%
48) 2-Hexanone-d5	8.11	63	63257	40.56	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	81.12%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	29706	4.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.40%
65) 1,2-Dichlorobenzene-d4	11.65	152	54470	5.19	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	13322	1.419	ug/L	87
8) Chloroethane	1.62	64	2702	0.404	ug/L #	41
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	515	0.071	ug/L #	20
16) Methylene chloride	2.53	84	3039	0.365	ug/L	96
17) Methyl tert-butyl Ether	2.79	73	3545	0.196	ug/L	95
22) cis-1,2-Dichloroethene	3.95	96	3127	0.388	ug/L	90
25) Chloroform	4.41	83	1686	0.103	ug/L	90
33) Benzene	5.13	78	14417	0.460	ug/L	100
35) Methylcyclohexane	6.10	83	11281	0.834	ug/L #	16
37) 1,2-Dichloropropane	6.10	63	5831	0.733	ug/L #	87
39) cis-1,3-Dichloropropene	7.01	75	1346	0.120	ug/L #	75
42) Toluene	7.41	91	55025	1.657	ug/L	100
43) 1,3,5-Trimethylbenzene	10.56	105	42978	1.410	ug/L #	100
44) 1,2,4-Trimethylbenzene	10.94	105	117265	3.849	ug/L #	100
46) trans-1,3-Dichloropropene	7.65	75	626	0.066	ug/L	89
50) 2-Hexanone	8.11	43	9323	2.657	ug/L #	75
54) Ethylbenzene	9.04	91	171655	4.546	ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat May 23 05:08:14 2020
Response via : Initial Calibration

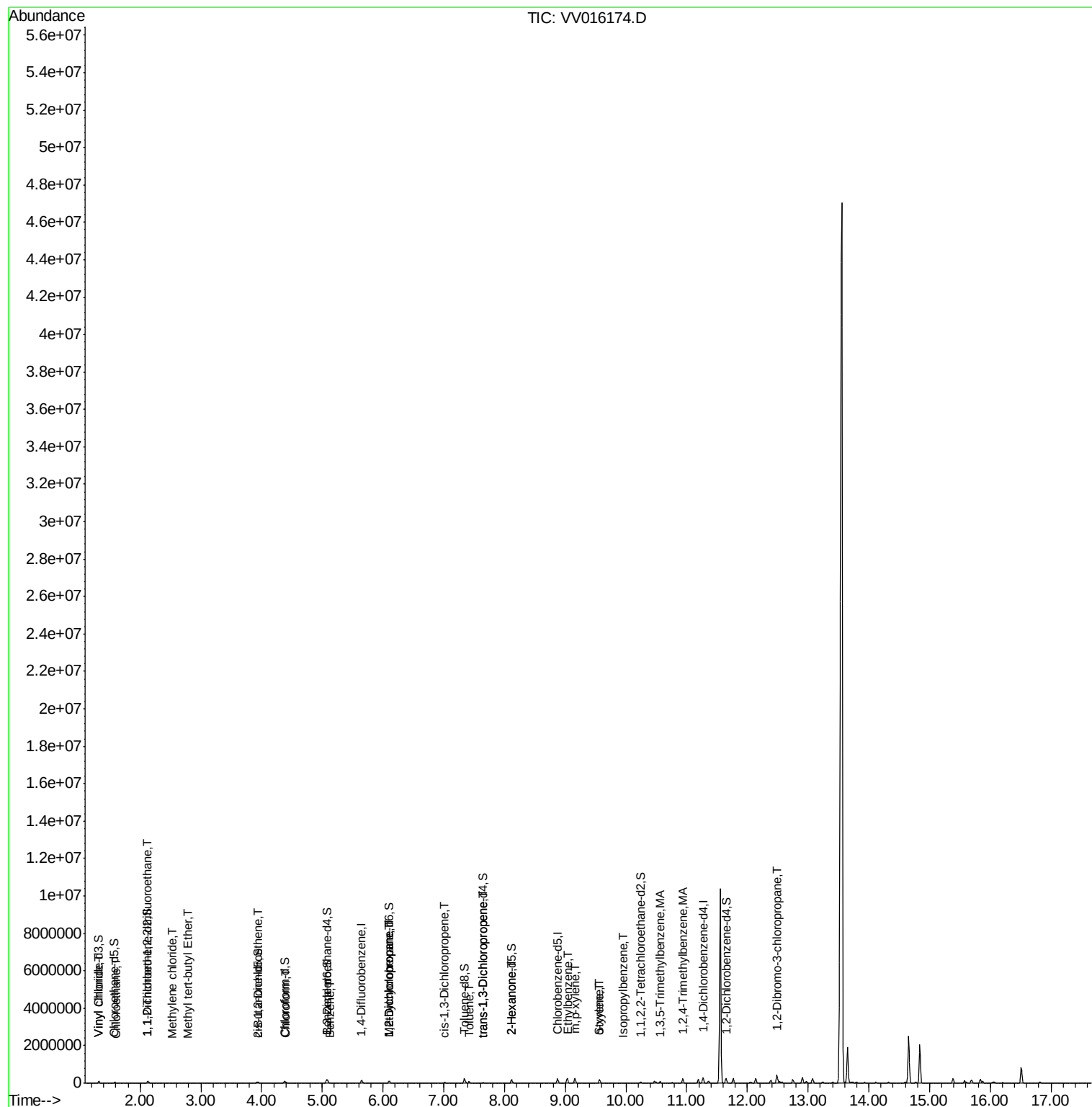
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) m,p-xylene	9.16	106	67903	4.856	ug/L	98
56) o-xylene	9.57	106	44140	3.302	ug/L	96
57) Styrene	9.57	104	2460	0.110	ug/L #	1
58) Isopropylbenzene	9.95	105	11093	0.302	ug/L	99
67) 1,2-Dibromo-3-chloropropan	12.49	75	11108	10.796	ug/L #	6

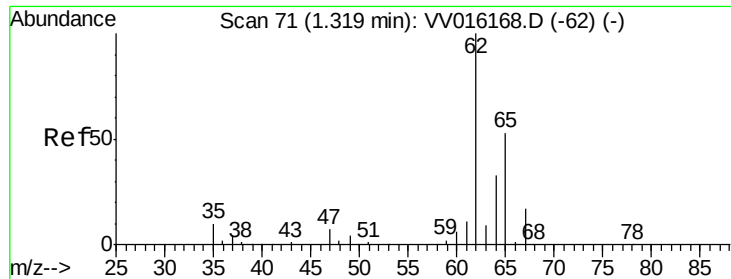
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 1.419 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016174.D

Acq: 22 May 2020 16:37

Instrument :

MSVOA_V

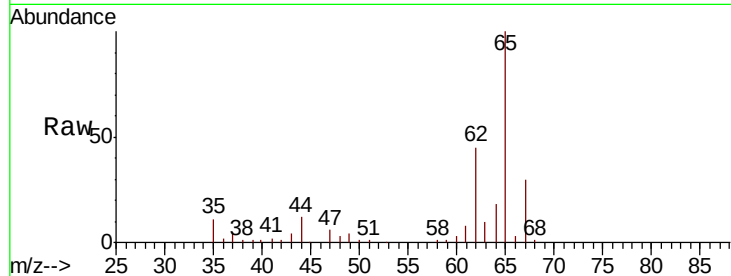
ClientSampleId :

Tot Ion: 62 Resp: 13322

Ion Ratio Lower Upper

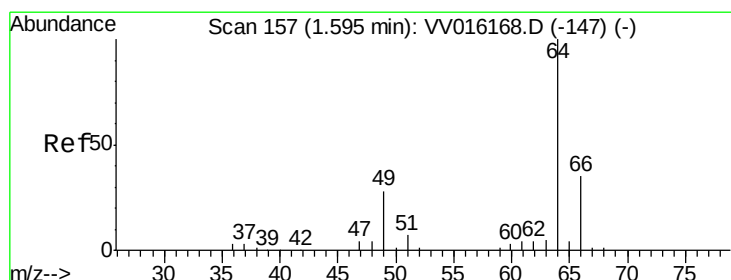
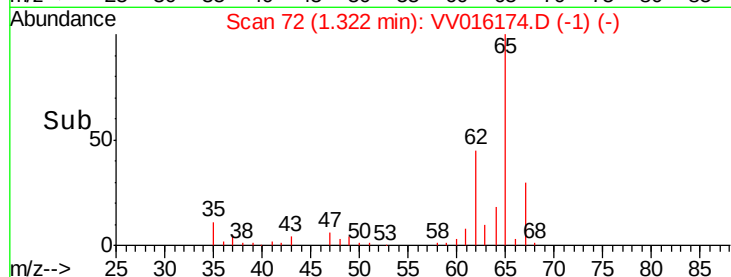
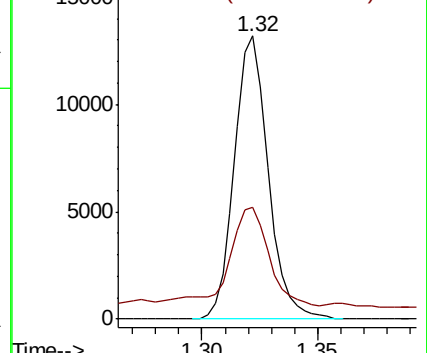
62 100

64 39.4 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#8

Chloroethane

Concen: 0.404 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.02 min

Lab File: VV016174.D

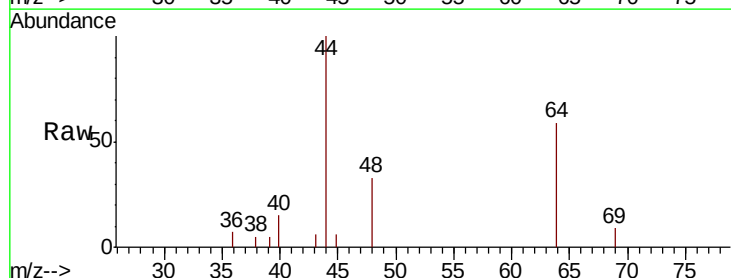
Acq: 22 May 2020 16:37

Tgt Ion: 64 Resp: 2702

Ion Ratio Lower Upper

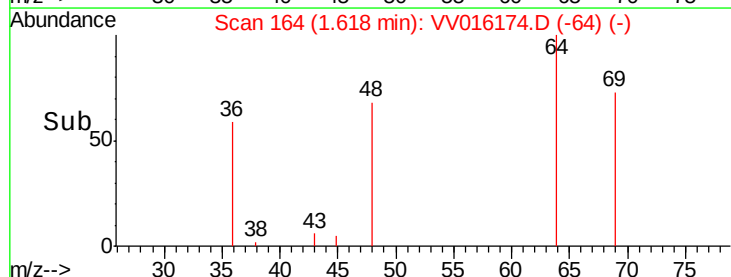
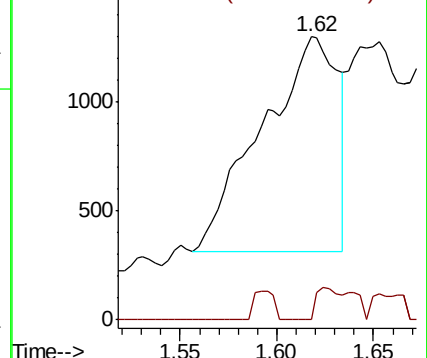
64 100

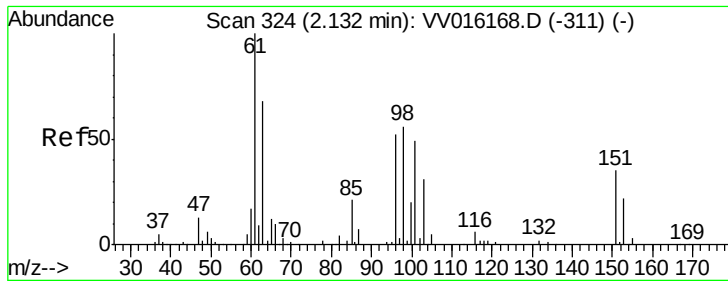
66 0.0 23.6 43.8#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#10

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

Concen: 0.071 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV016174.D

Acq: 22 May 2020 16:37

Instrument :

MSVOA_V

ClientSampled :

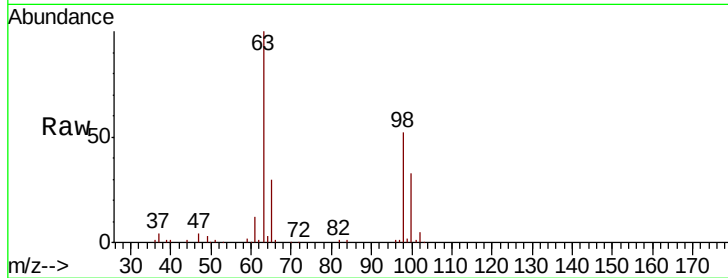
Tot Ion:101 Resp: 515

Ion Ratio Lower Upper

101 100

85 0.0 35.7 53.5#

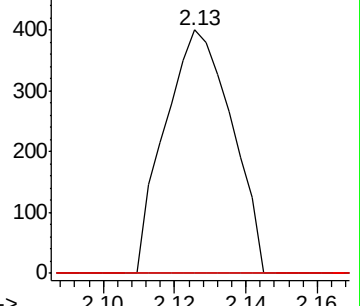
151 0.0 58.0 87.0#



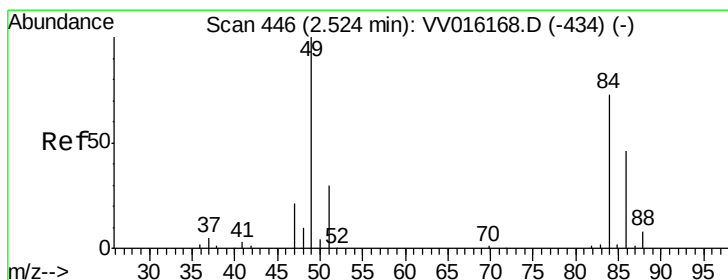
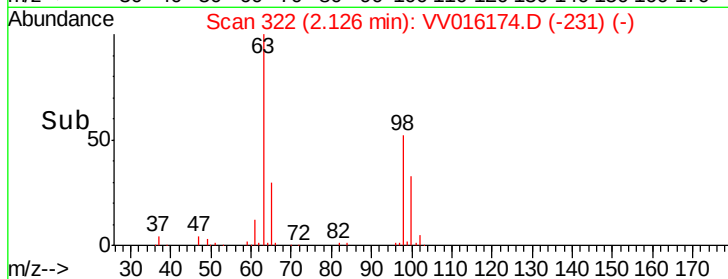
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



Time-->



#16

Methylene chloride

Concen: 0.365 ug/L

RT: 2.53 min Scan# 448

Delta R.T. 0.01 min

Lab File: VV016174.D

Acq: 22 May 2020 16:37

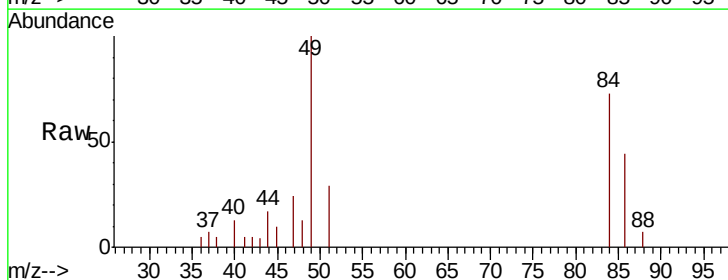
Tgt Ion: 84 Resp: 3039

Ion Ratio Lower Upper

84 100

86 59.2 45.6 84.8

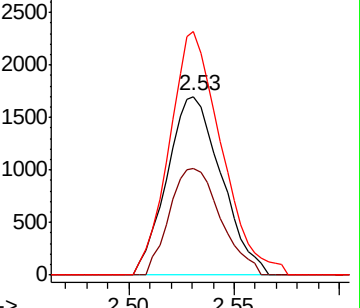
49 136.1 93.6 173.8



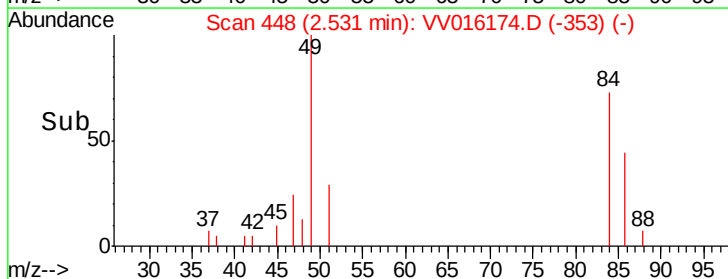
Abundance Ion 84.05 (83.75 to 84.75): VV0

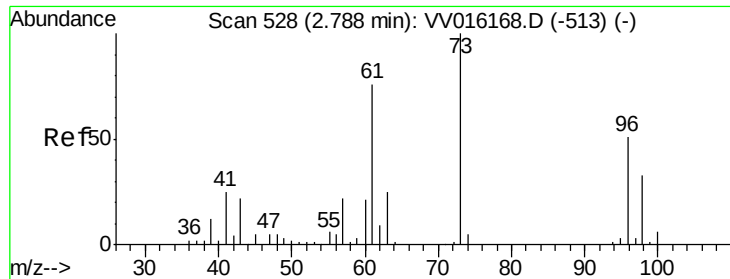
Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0



Time-->

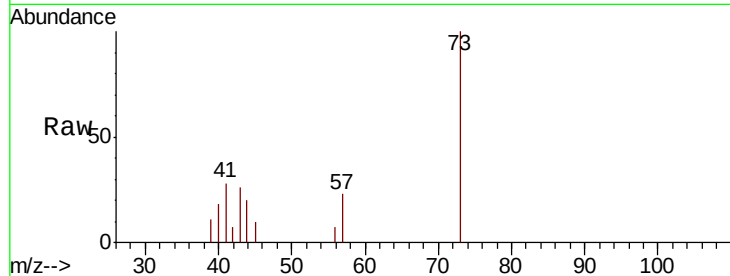




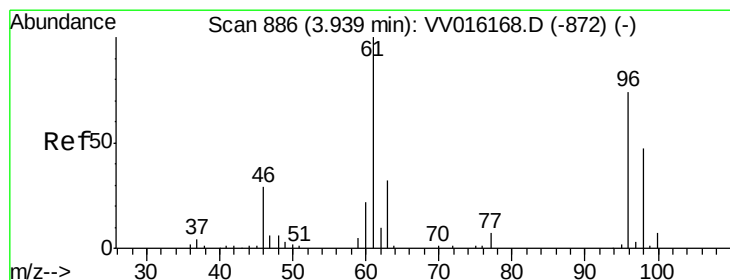
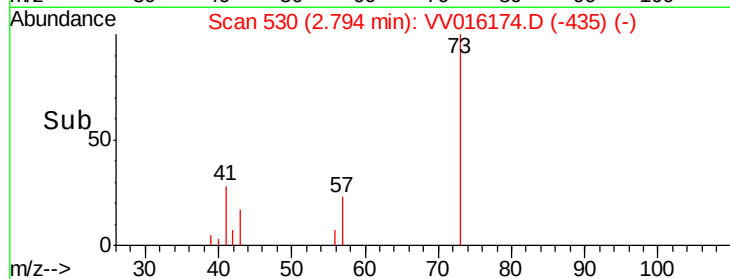
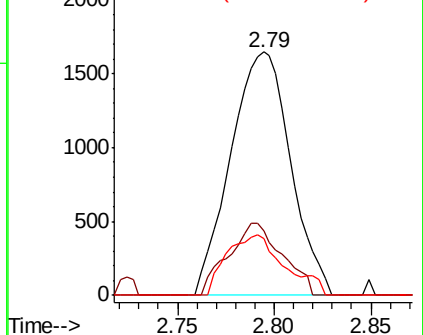
#17
Methyl tert-butyl Ether
Concen: 0.196 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.01 min
Lab File: VV016174.D
Acq: 22 May 2020 16:37

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 73 Resp: 3545
Ion Ratio Lower Upper
73 100
43 26.8 18.8 28.2
57 24.1 17.8 26.6

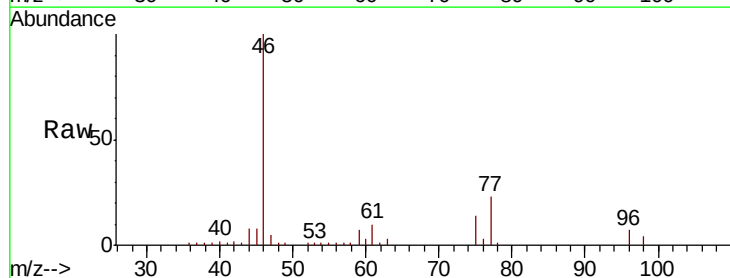


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

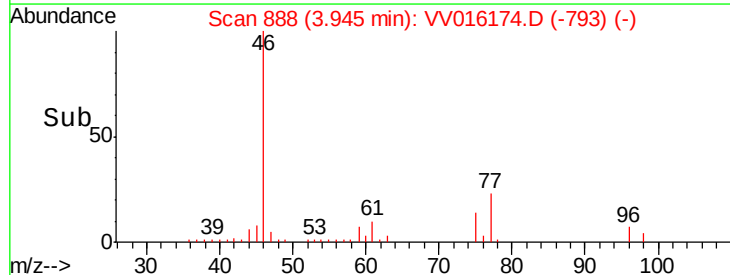
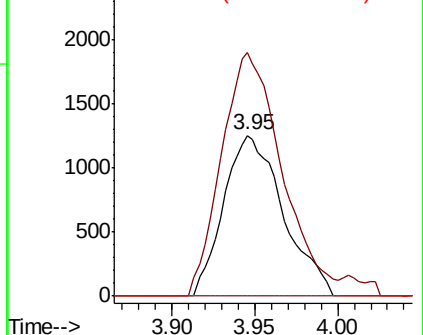


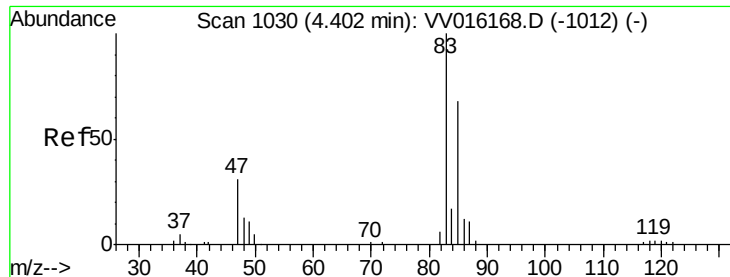
#22
cis-1,2-Dichloroethene
Concen: 0.388 ug/L
RT: 3.95 min Scan# 888
Delta R.T. 0.01 min
Lab File: VV016174.D
Acq: 22 May 2020 16:37

Tgt Ion: 96 Resp: 3127
Ion Ratio Lower Upper
96 100
61 151.3 97.2 180.6
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

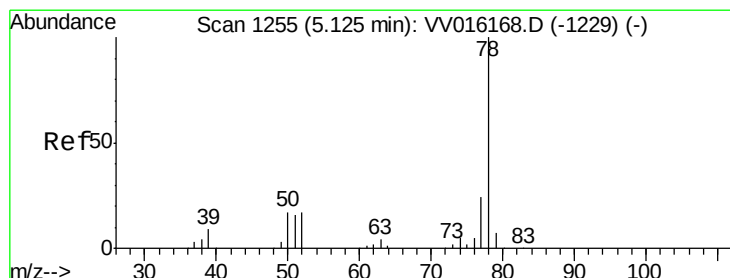
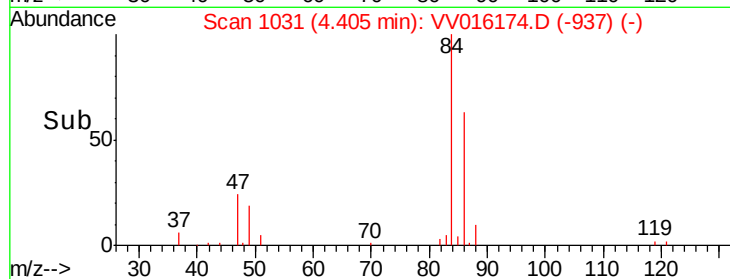
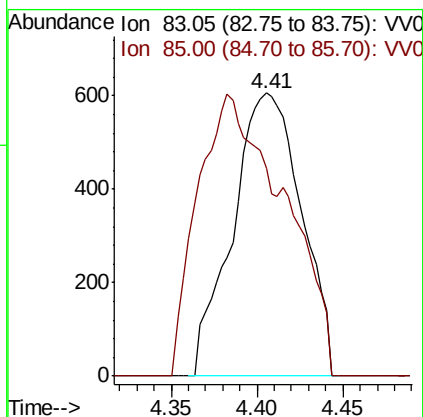
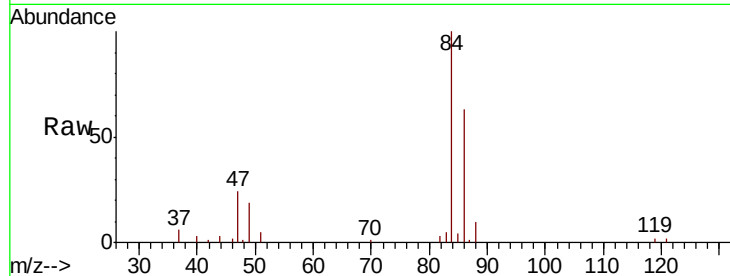




#25
Chloroform
Concen: 0.103 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VV016174.D
Acq: 22 May 2020 16:37

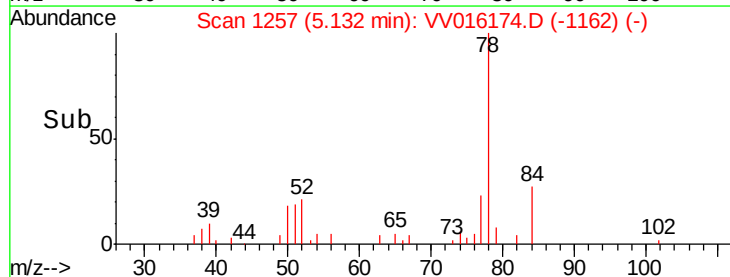
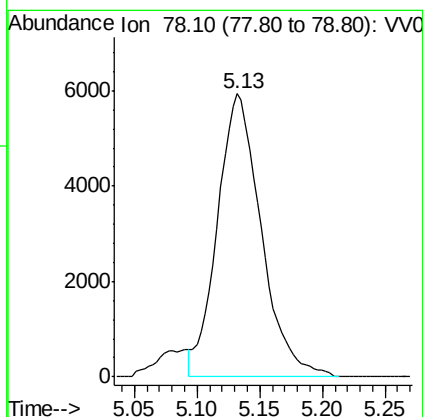
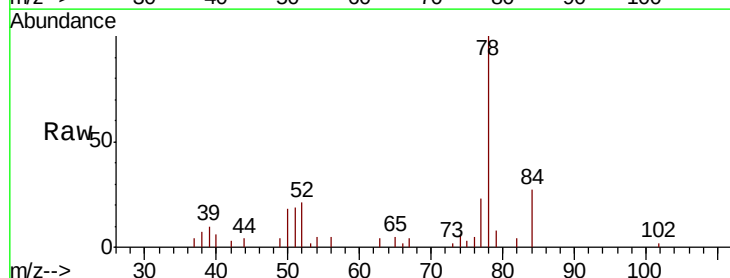
Instrument :
MSVOA_V
ClientSampleId :

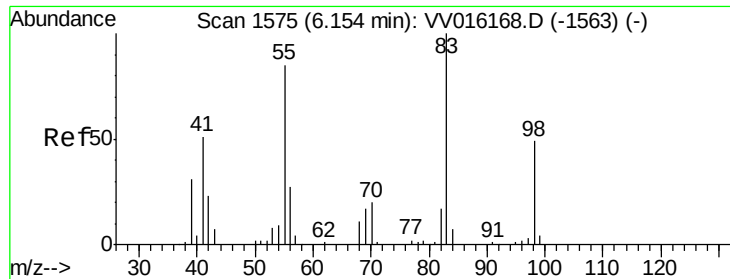
Tot Ion: 83 Resp: 1686
Ion Ratio Lower Upper
83 100
85 73.6 45.7 84.9



#33
Benzene
Concen: 0.460 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.01 min
Lab File: VV016174.D
Acq: 22 May 2020 16:37

Tgt Ion: 78 Resp: 14417

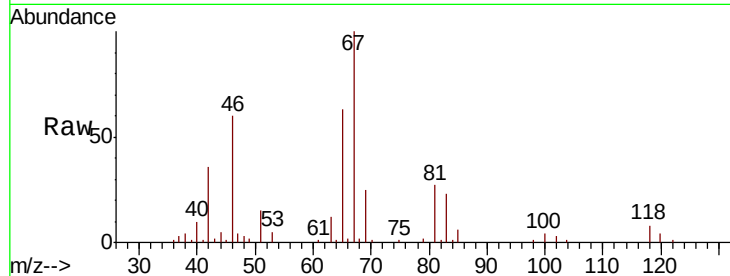




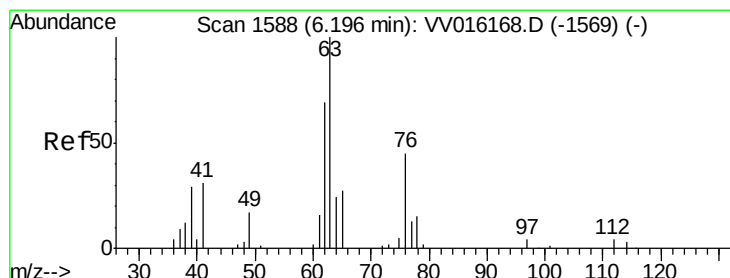
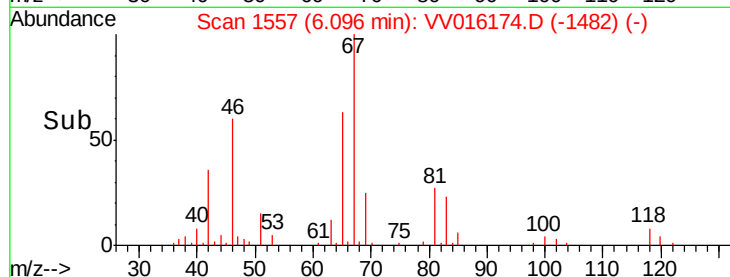
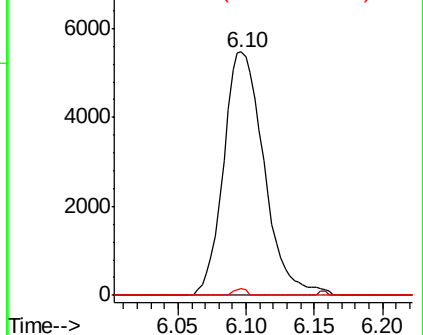
#35
Methylvlcyclohexane
Concen: 0.834 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.06 min
Lab File: VV016174.D
Acq: 22 May 2020 16:37

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 11281
Ion Ratio Lower Upper
83 100
55 0.4 66.2 99.2#
98 0.9 37.9 56.9#

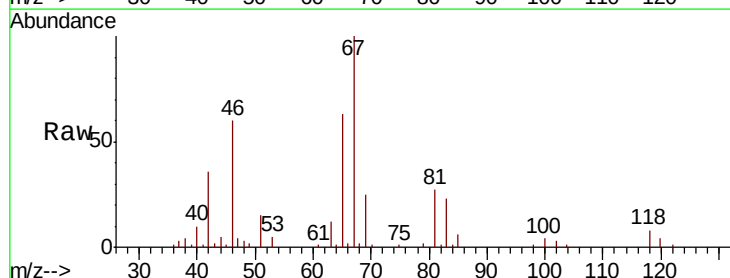


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

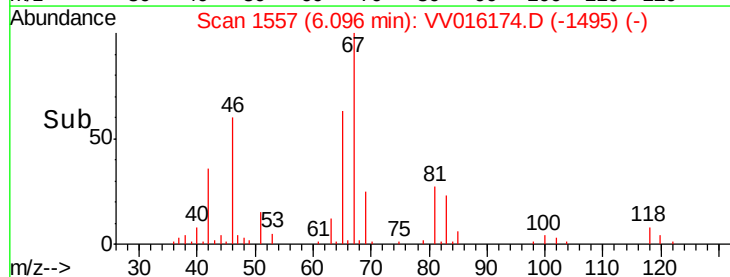
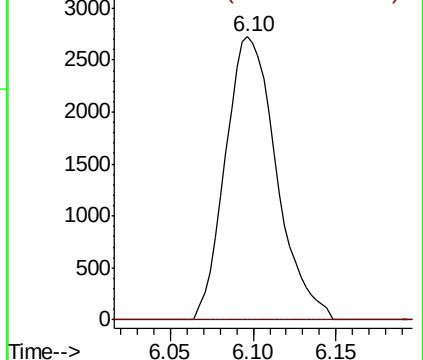


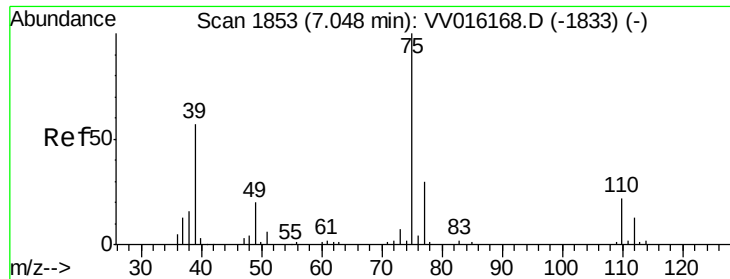
#37
1,2-Dichloropropane
Concen: 0.733 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.10 min
Lab File: VV016174.D
Acq: 22 May 2020 16:37

Tgt Ion: 63 Resp: 5831
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V

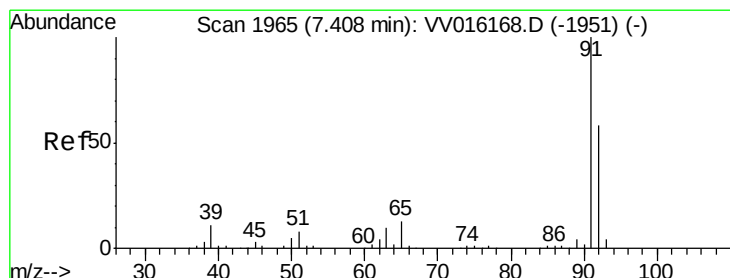
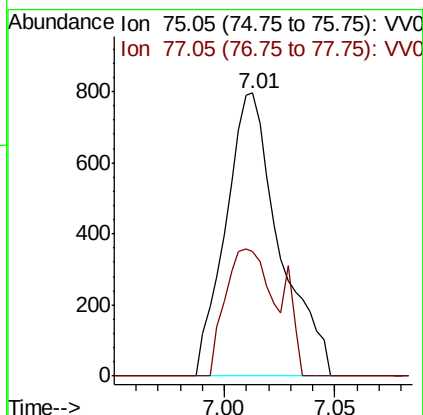
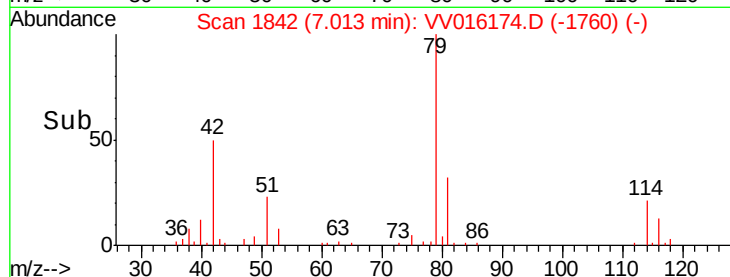
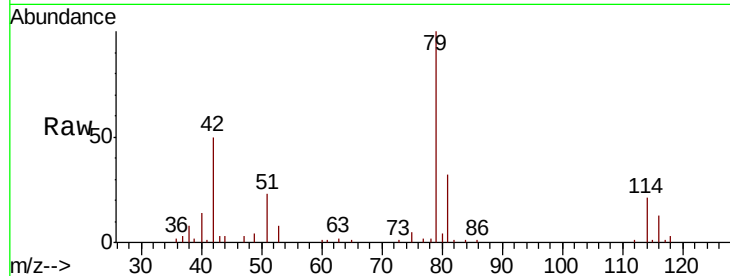




#39
 cis-1,3-Dichloropropene
 Concen: 0.120 ug/L
 RT: 7.01 min Scan# 1842
 Delta R.T. -0.04 min
 Lab File: VV016174.D
 Acq: 22 May 2020 16:37

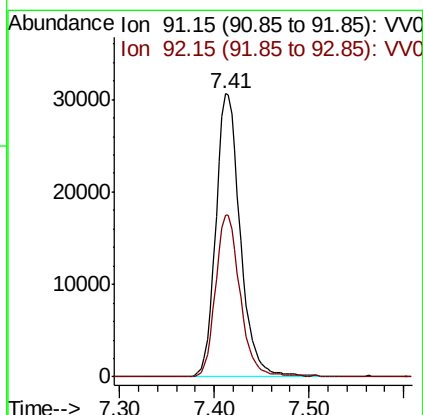
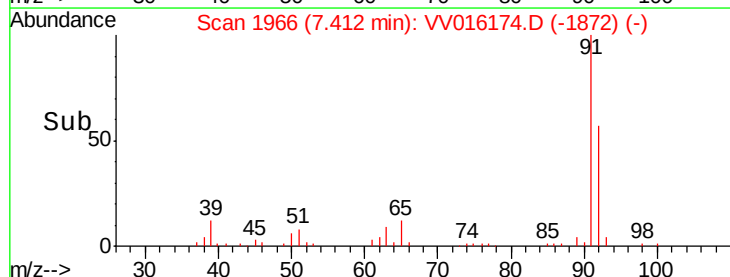
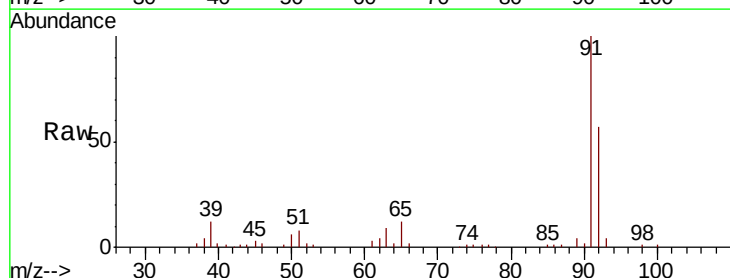
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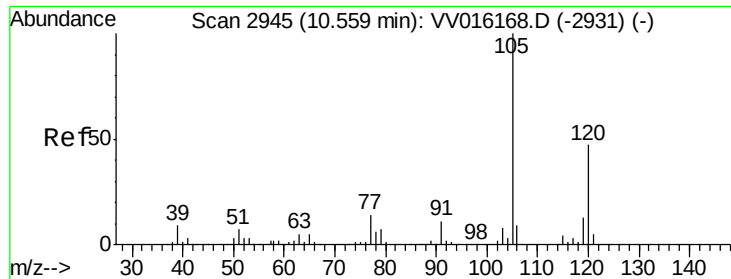
Tot Ion: 75 Resp: 1346
 Ion Ratio Lower Upper
 75 100
 77 44.1 21.3 39.5#



#42
 Toluene
 Concen: 1.657 ug/L
 RT: 7.41 min Scan# 1966
 Delta R.T. 0.00 min
 Lab File: VV016174.D
 Acq: 22 May 2020 16:37

Tgt Ion: 91 Resp: 55025
 Ion Ratio Lower Upper
 91 100
 92 57.4 40.1 74.5





#43

1,3,5-Trimethylbenzene

Concen: 1.410 ug/L

RT: 10.56 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VV016174.D

Acq: 22 May 2020 16:37

Instrument :

MSVOA_V

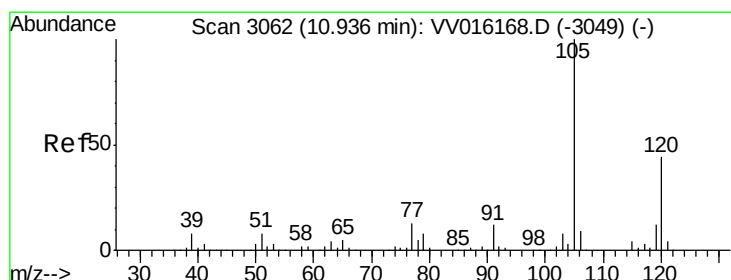
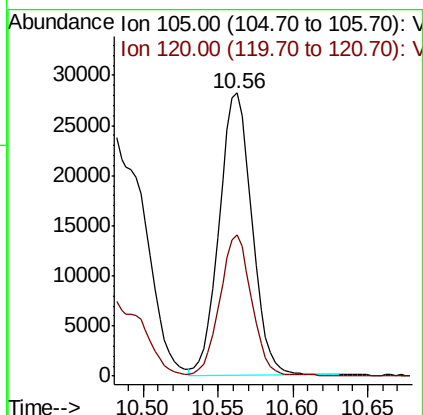
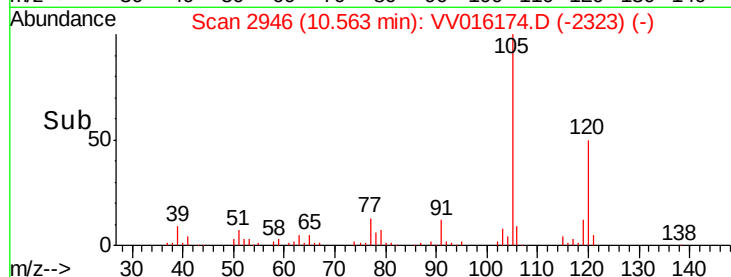
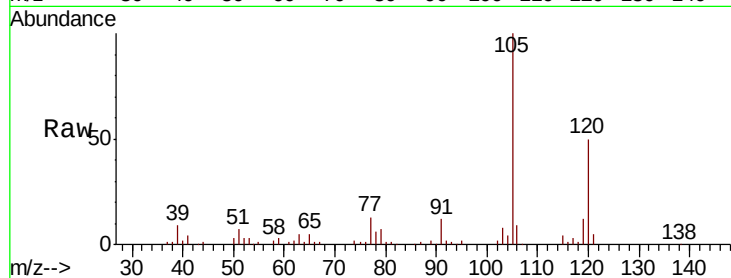
ClientSampled :

Tot Ion:105 Resp: 42978

Ion Ratio Lower Upper

105 100

120 48.8 0.0 0.0#



#44

1,2,4-Trimethylbenzene

Concen: 3.849 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VV016174.D

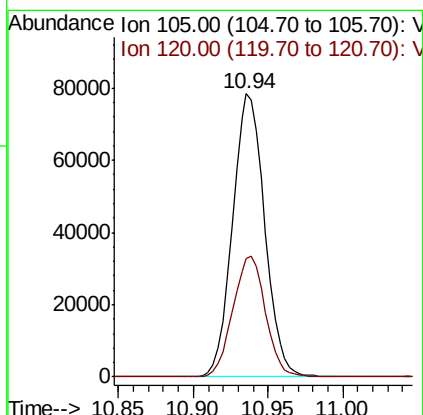
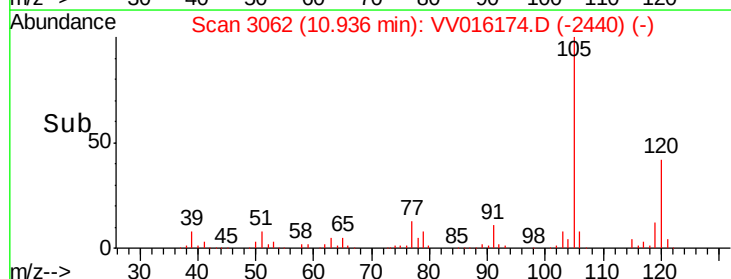
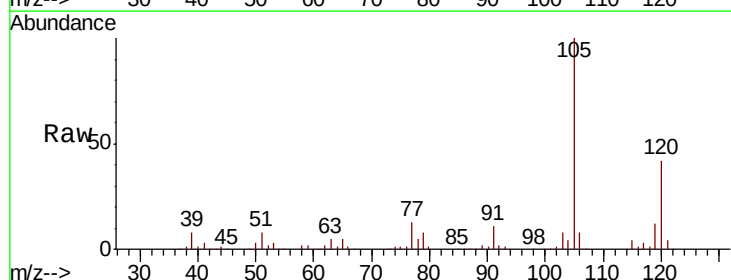
Acq: 22 May 2020 16:37

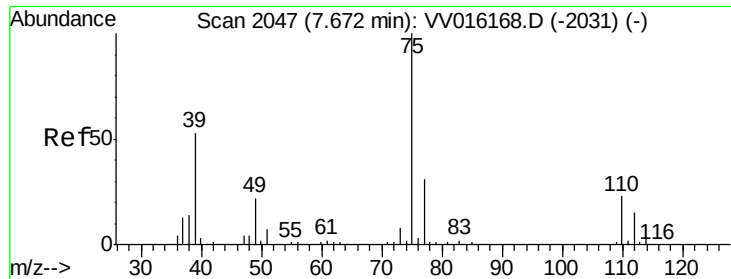
Tgt Ion:105 Resp: 117265

Ion Ratio Lower Upper

105 100

120 43.4 0.0 0.0#

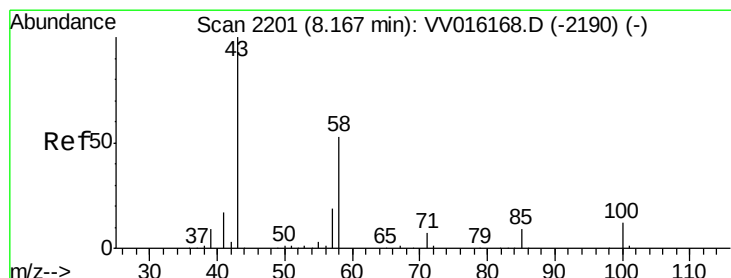
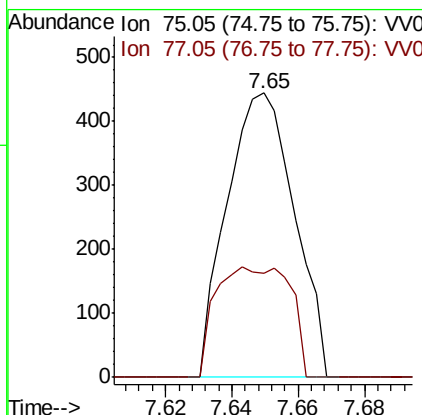
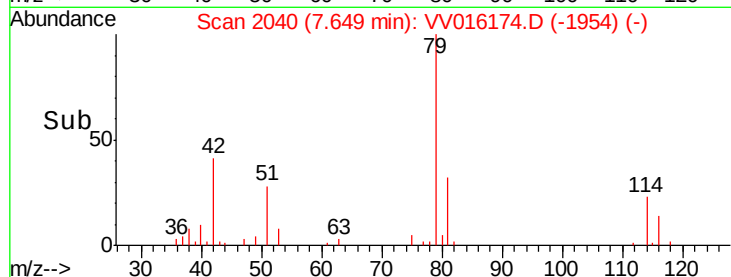
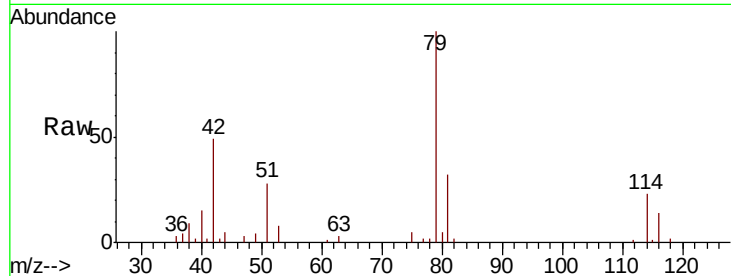




#46
trans-1,3-Dichloropropene
Concen: 0.066 ug/L
RT: 7.65 min Scan# 2040
Delta R.T. -0.02 min
Lab File: VV016174.D
Acq: 22 May 2020 16:37

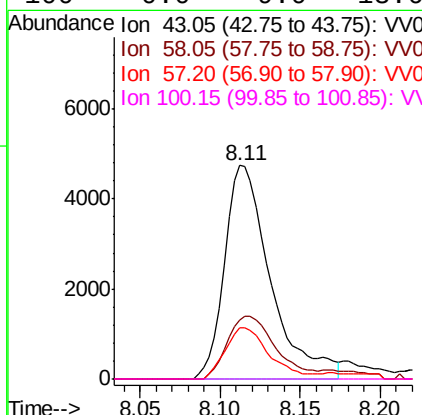
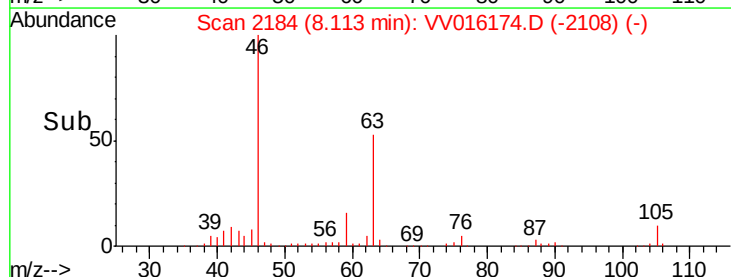
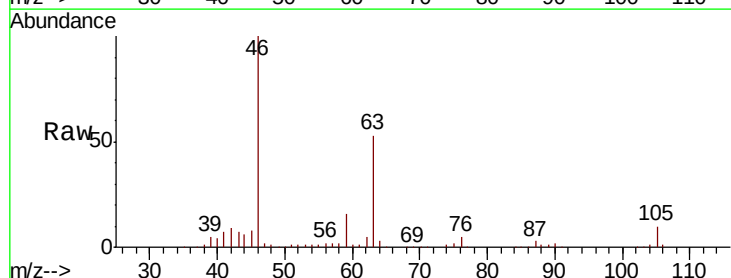
Instrument :
MSVOA_V
ClientSampled :

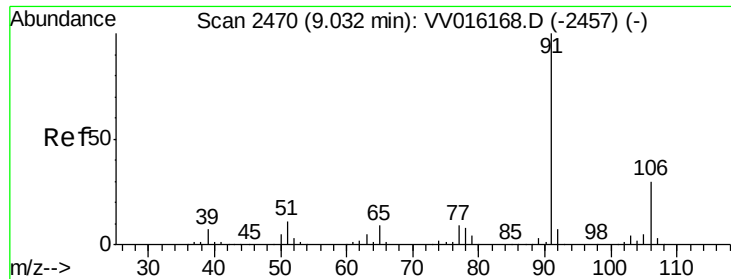
Tot Ion: 75 Resp: 626
Ion Ratio Lower Upper
75 100
77 36.3 21.3 39.6



#50
2-Hexanone
Concen: 2.657 ug/L
RT: 8.11 min Scan# 2184
Delta R.T. -0.05 min
Lab File: VV016174.D
Acq: 22 May 2020 16:37

Tgt Ion: 43 Resp: 9323
Ion Ratio Lower Upper
43 100
58 30.9 40.8 61.2#
57 23.2 14.7 22.1#
100 0.0 9.0 13.6#





#54

Ethylbenzene

Concen: 4.546 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV016174.D

Acq: 22 May 2020 16:37

Instrument :

MSVOA_V

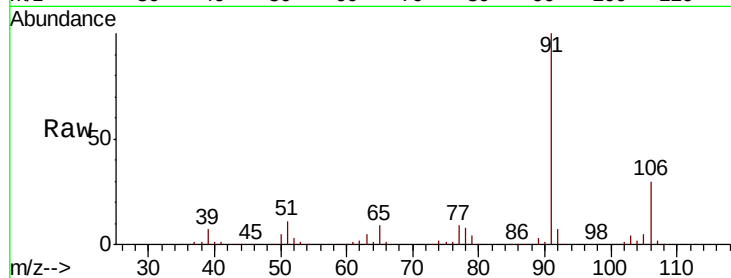
ClientSampleId :

Tot Ion: 91 Resp: 171655

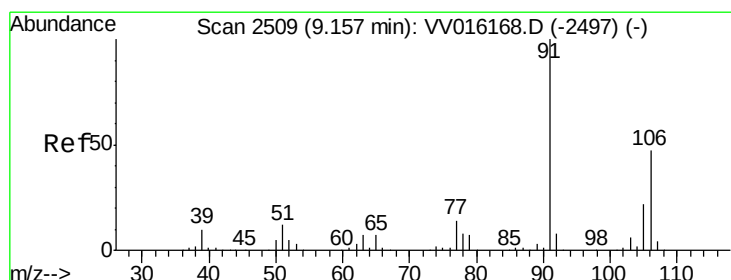
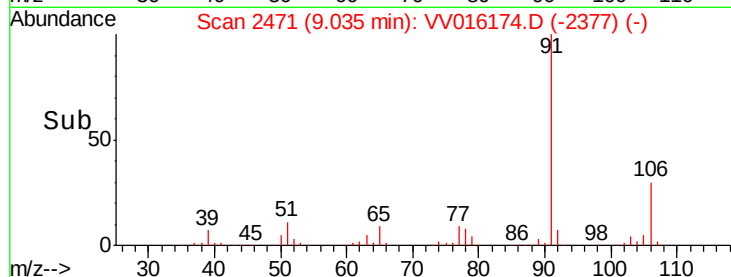
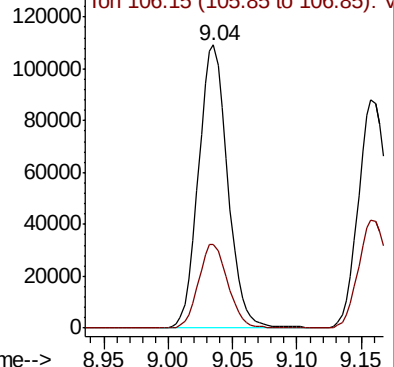
Ion Ratio Lower Upper

91 100

106 29.8 20.6 38.4



Abundance Ion 91.15 (90.85 to 91.85): VV016174.D (-2377) (-)



#55

m,p-xylene

Concen: 4.856 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. 0.00 min

Lab File: VV016174.D

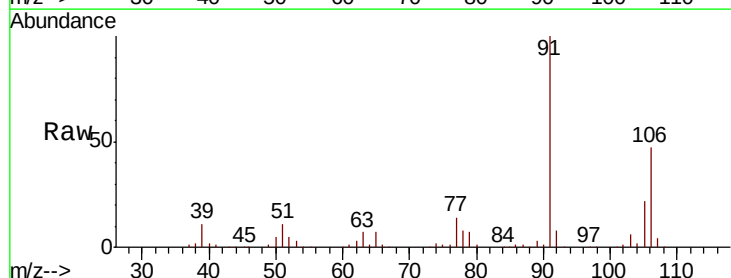
Acq: 22 May 2020 16:37

Tgt Ion: 106 Resp: 67903

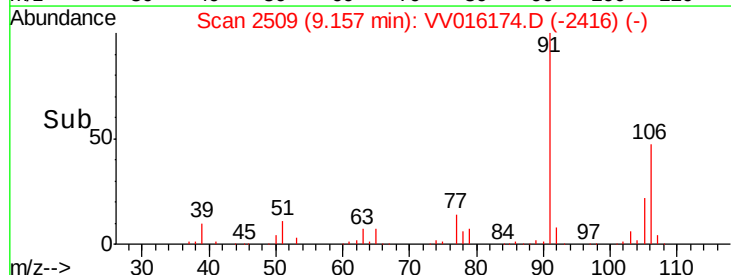
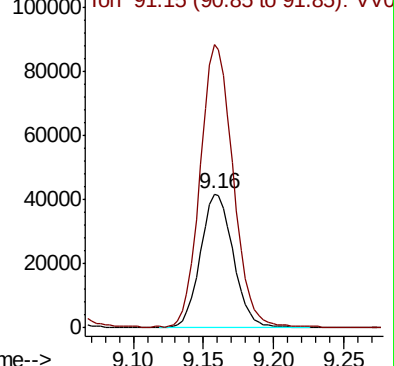
Ion Ratio Lower Upper

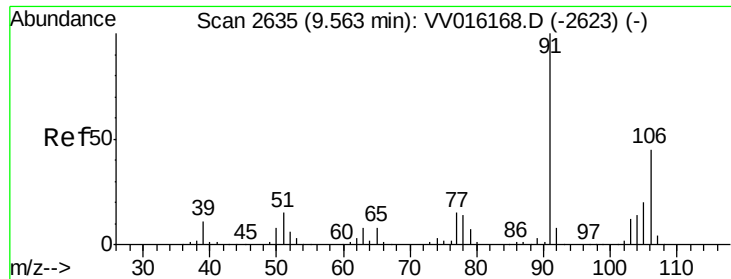
106 100

91 211.1 149.9 278.3



Abundance Ion 106.15 (105.85 to 106.85): VV016174.D (-2416) (-)

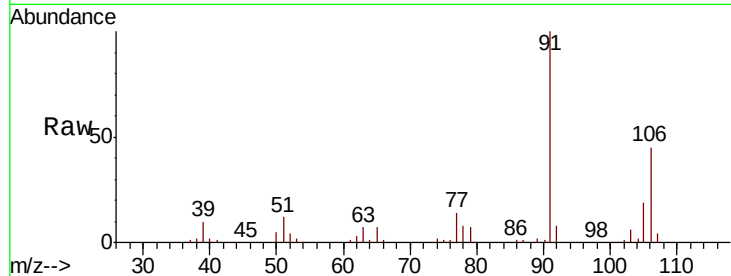




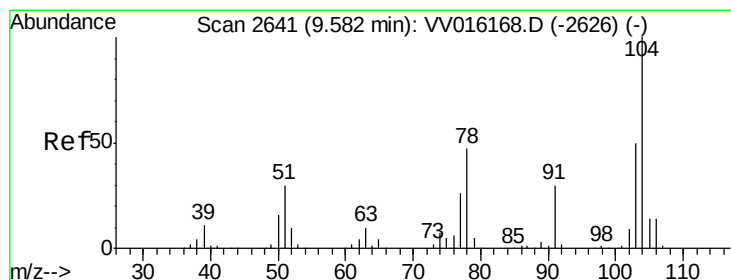
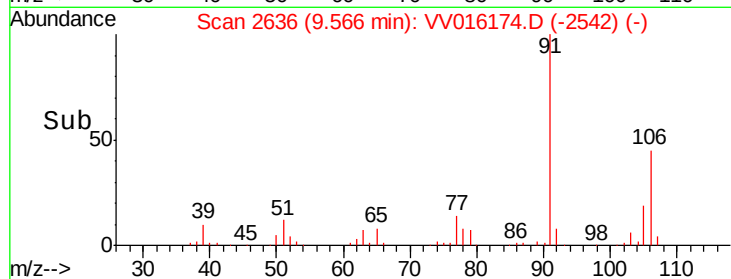
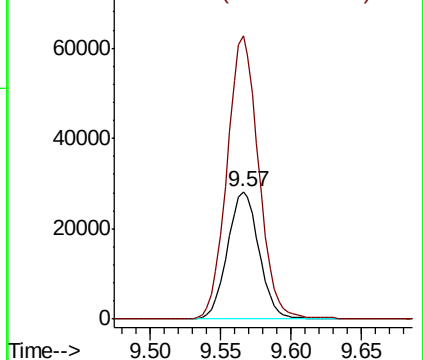
#56
o-xylene
Concen: 3.302 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV016174.D
Acq: 22 May 2020 16:37

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 44140
Ion Ratio Lower Upper
106 100
91 221.5 159.7 296.5

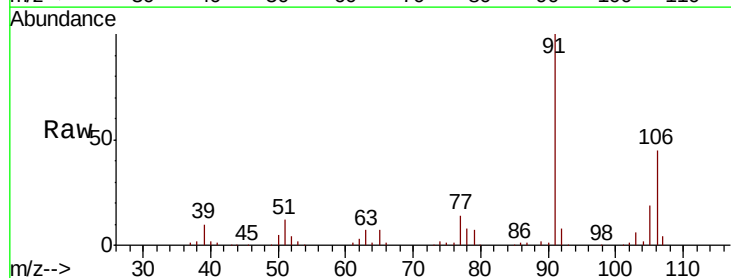


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

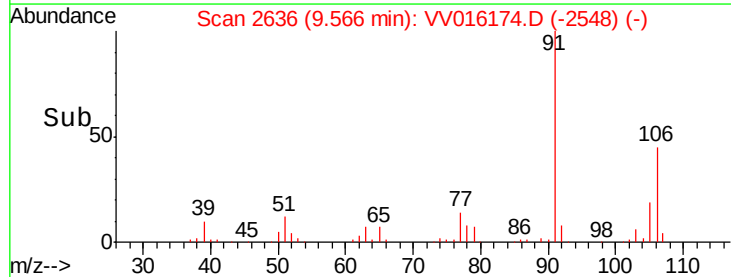
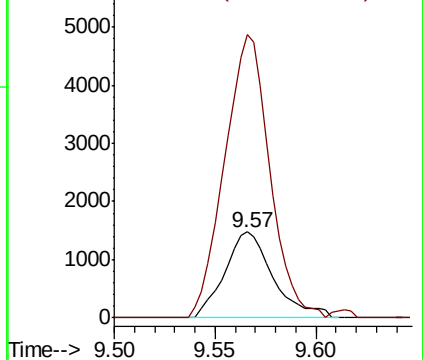


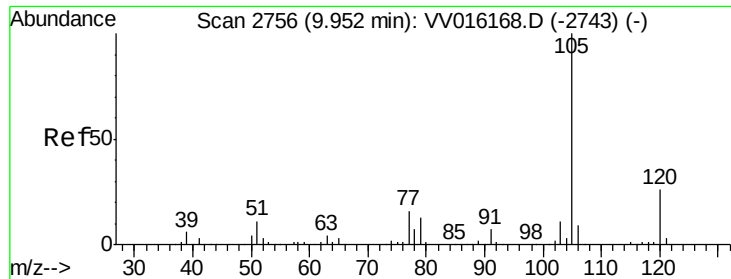
#57
Styrene
Concen: 0.110 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. -0.02 min
Lab File: VV016174.D
Acq: 22 May 2020 16:37

Tgt Ion:104 Resp: 2460
Ion Ratio Lower Upper
104 100
78 329.5 33.9 63.0#



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





#58

Isopropylbenzene

Concen: 0.302 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV016174.D

Acq: 22 May 2020 16:37

Instrument :

MSVOA_V

ClientSampleId :

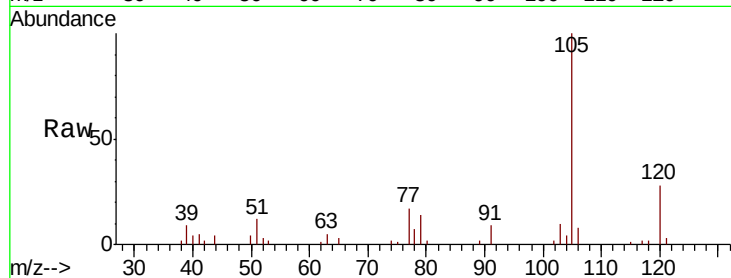
Tot Ion:105 Resp: 11093

Ion Ratio Lower Upper

105 100

120 26.9 20.8 31.2

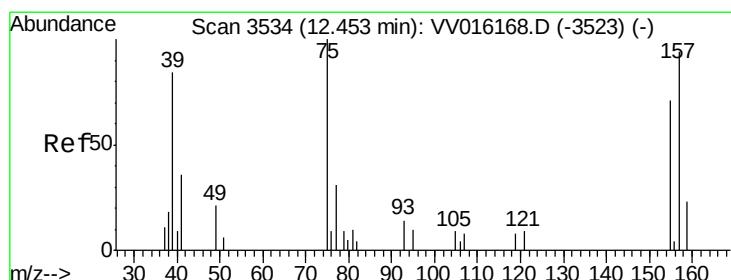
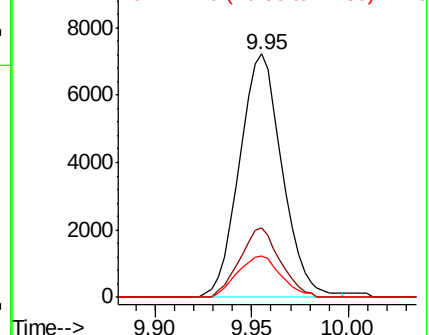
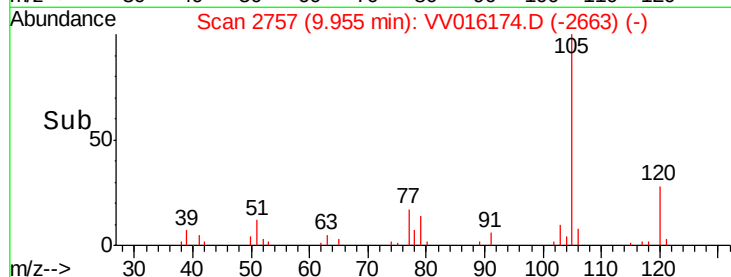
77 17.4 14.1 21.1



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



#67

1,2-Dibromo-3-chloropropane

Concen: 10.796 ug/L

RT: 12.49 min Scan# 3544

Delta R.T. 0.03 min

Lab File: VV016174.D

Acq: 22 May 2020 16:37

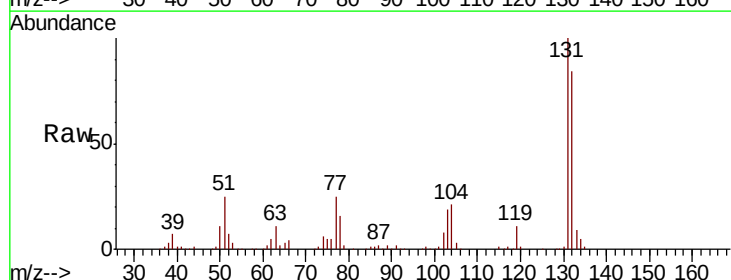
Tgt Ion: 75 Resp: 11108

Ion Ratio Lower Upper

75 100

155 0.0 58.2 87.4#

157 0.0 79.4 119.2#



Abundance Ion 75.05 (74.75 to 75.75): V

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

