

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052020\
 Data File : VV016141.D
 Acq On : 20 May 2020 18:57
 Operator : SY/MD
 Sample : L2725-12
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 21 01:43:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu May 21 01:36:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	146274	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	142003	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	73487	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	34246	4.32	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.40%
7) Chloroethane-d5	1.58	69	36862	4.90	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.00%
11) 1,1-Dichloroethene-d2	2.12	63	60274	3.53	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.60%
20) 2-Butanone-d5	3.95	46	126962	56.09	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.18%
24) Chloroform-d	4.38	84	90691	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.60%
26) 1,2-Dichloroethane-d4	5.06	65	49629	4.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.80%
32) Benzene-d6	5.08	84	172700	5.11	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.20%
36) 1,2-Dichloropropane-d6	6.10	67	57184	5.55	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	111.00%
41) Toluene-d8	7.34	98	154654	4.84	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.80%
45) trans-1,3-Dichloropropene-	7.65	79	16399	4.05	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.00%
48) 2-Hexanone-d5	8.11	63	115067	64.71	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	129.42%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	41047	5.66	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.20%
65) 1,2-Dichlorobenzene-d4	11.65	152	63779	5.35	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	107.00%

Target Compounds

				Ovalue
5) Vinyl chloride	1.32	62	10100	0.931 ug/L # 80
8) Chloroethane	1.44	64	813952	105.278 ug/L # 49
12) 1,1-Dichloroethene	2.12	96	576	0.072 ug/L # 1
18) trans-1,2-Dichloroethene	2.78	96	2485	0.279 ug/L # 86
22) cis-1,2-Dichloroethene	3.95	96	11163	1.199 ug/L # 97
27) 1,2-Dichloroethane	5.15	62	788	0.068 ug/L # 76
33) Benzene	5.13	78	54287	1.519 ug/L # 100
35) Methylcyclohexane	6.10	83	13971	0.906 ug/L # 16
37) 1,2-Dichloropropane	6.10	63	6785	0.748 ug/L # 87
39) cis-1,3-Dichloropropene	7.01	75	1298	0.101 ug/L # 50
42) Toluene	7.41	91	175292	4.629 ug/L # 98
43) 1,3,5-Trimethylbenzene	10.56	105	10309	0.297 ug/L # 100
44) 1,2,4-Trimethylbenzene	10.94	105	22219	0.640 ug/L # 100
46) trans-1,3-Dichloropropene	7.65	75	754	0.070 ug/L # 75
47) 1,1,2-Trichloroethane	7.73	97	839	0.138 ug/L # 16
50) 2-Hexanone	8.11	43	16252	4.062 ug/L # 70
53) Chlorobenzene	8.91	112	2399	0.099 ug/L # 89

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 21 01:36:12 2020
Response via : Initial Calibration

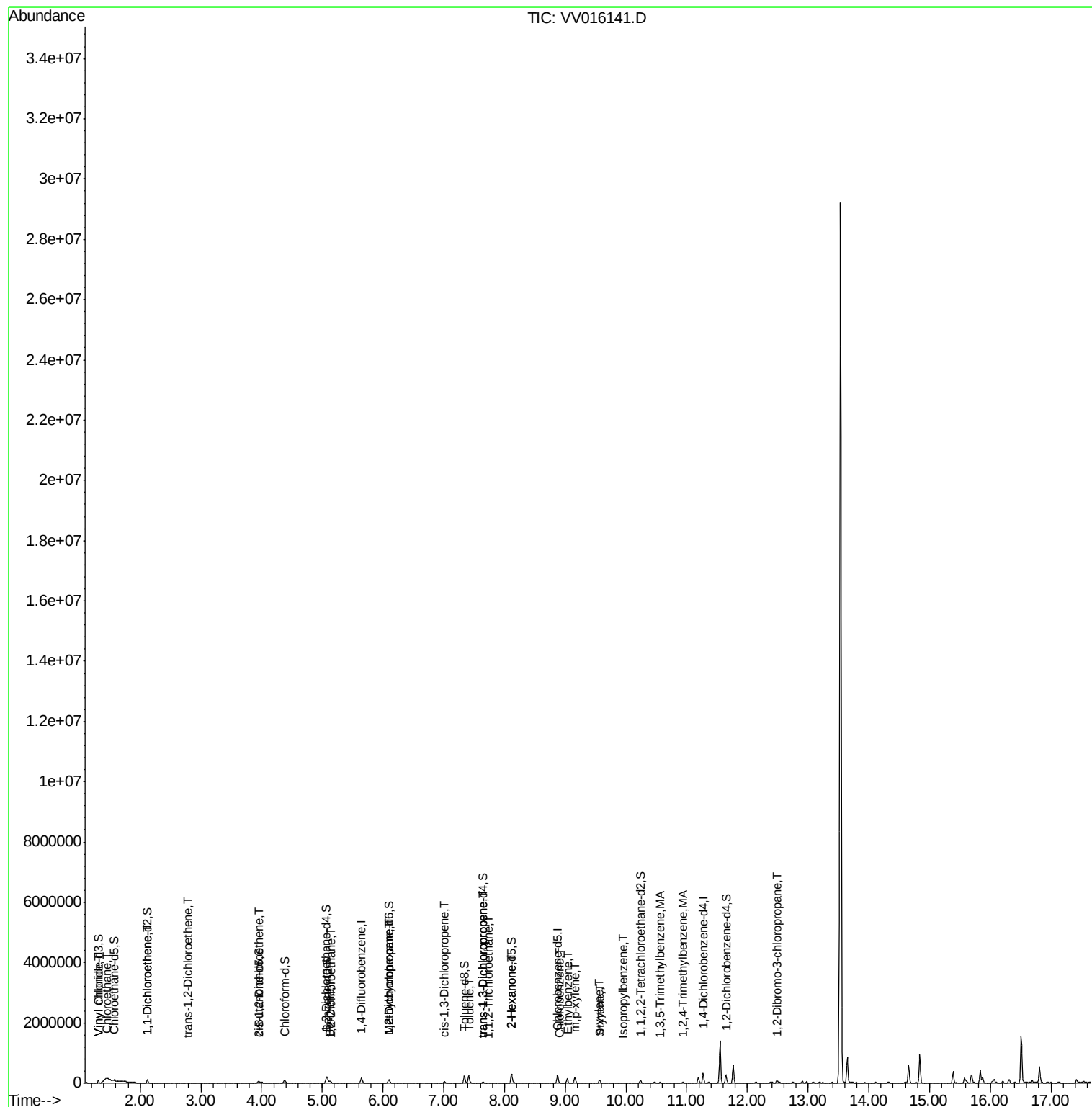
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	9.04	91	97584	2.266	ug/L	99
55) m,p-xylene	9.16	106	53053	3.327	ug/L	96
56) o-xylene	9.57	106	26276	1.724	ug/L	95
57) Styrene	9.58	104	4019	0.158	ug/L #	61
58) Isopropylbenzene	9.96	105	3126	0.075	ug/L	98
67) 1,2-Dibromo-3-chloropropan	12.49	75	1802	1.541	ug/L #	6

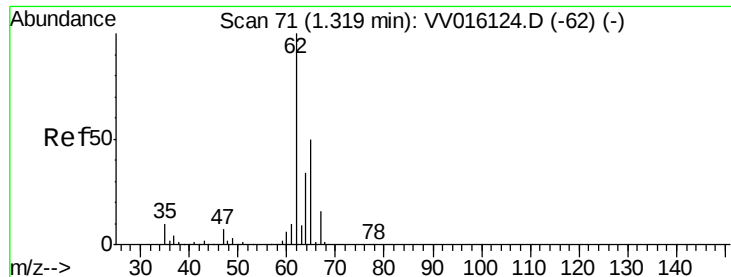
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.931 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV016141.D

Acq: 20 May 2020 18:57

Instrument :

MSVOA_V

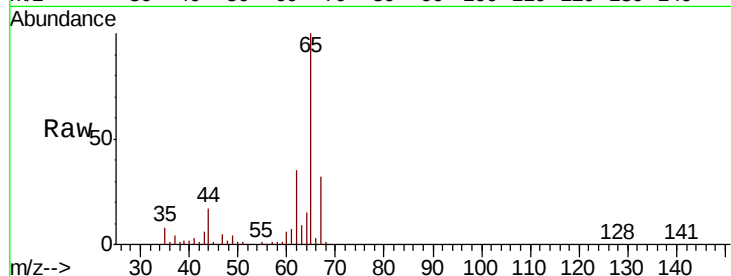
ClientSampleId :

Tot Ion: 62 Resp: 10100

Ion Ratio Lower Upper

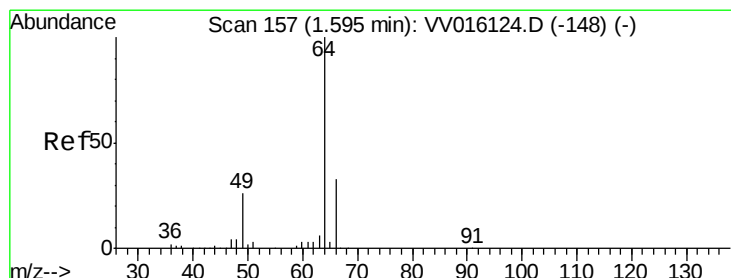
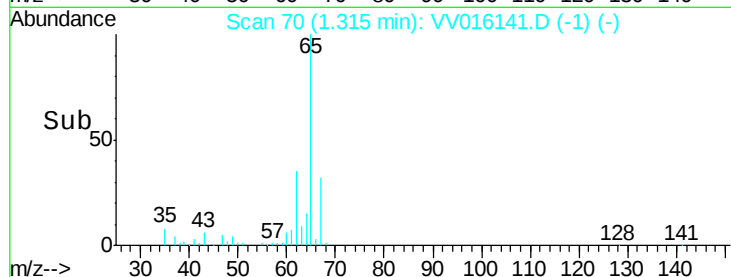
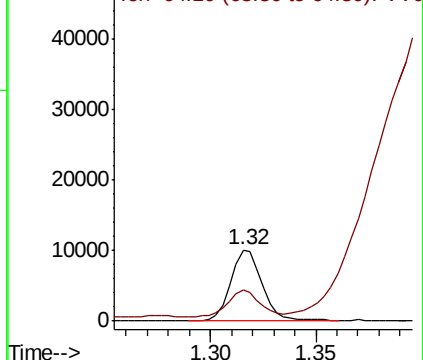
62 100

64 43.3 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: 105.278 ug/L

RT: 1.44 min Scan# 110

Delta R.T. -0.15 min

Lab File: VV016141.D

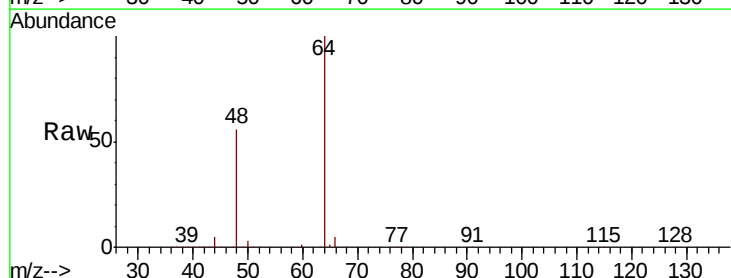
Acq: 20 May 2020 18:57

Tgt Ion: 64 Resp: 813952

Ion Ratio Lower Upper

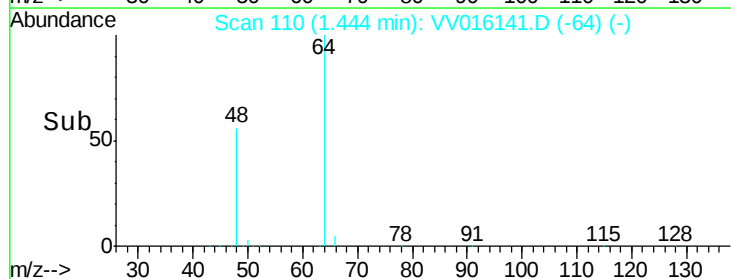
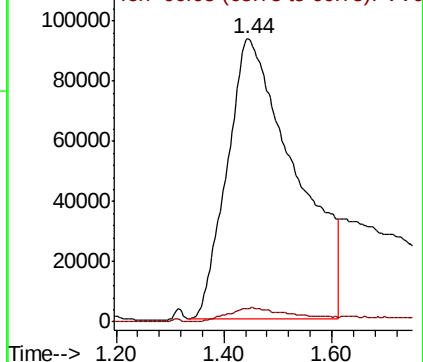
64 100

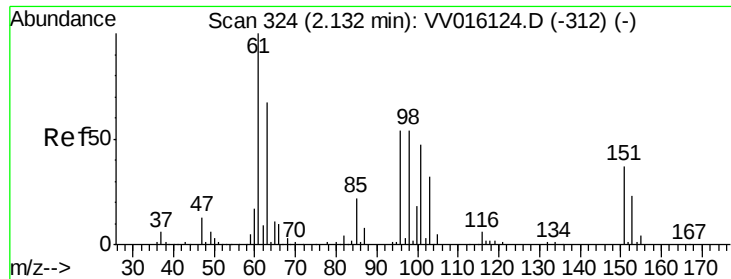
66 4.7 23.6 43.8#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

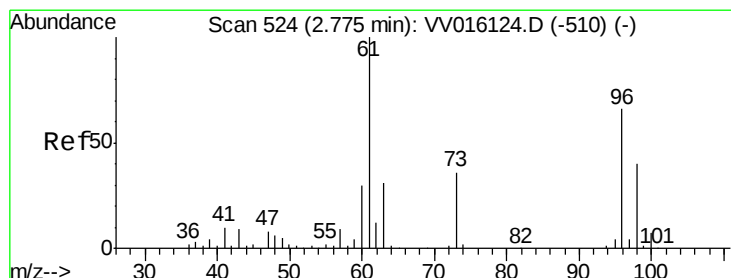
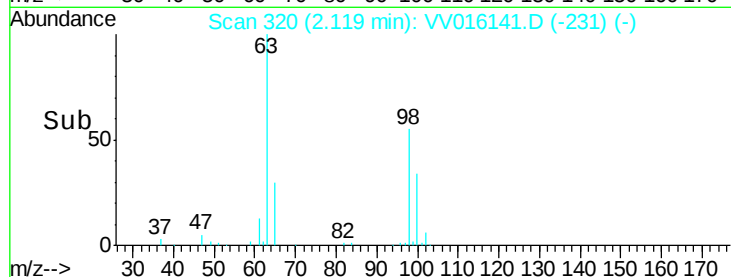
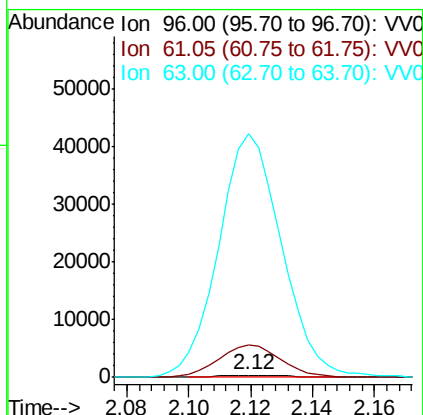
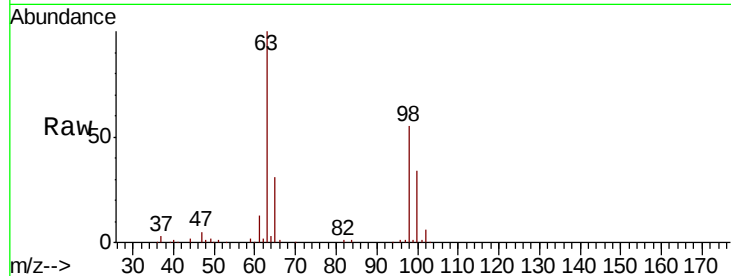




#12
 1,1-Dichloroethene
 Concen: 0.072 ug/L
 RT: 2.12 min Scan# 320
 Delta R.T. -0.01 min
 Lab File: VV016141.D
 Acq: 20 May 2020 18:57

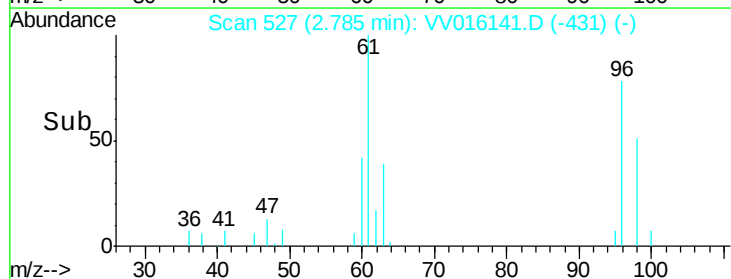
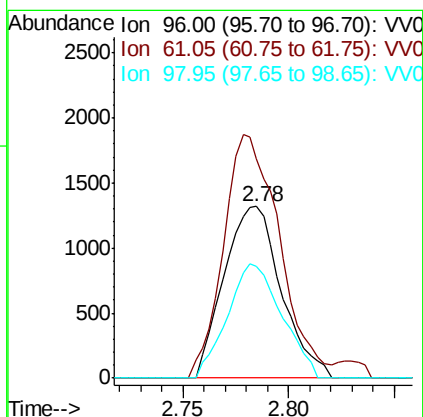
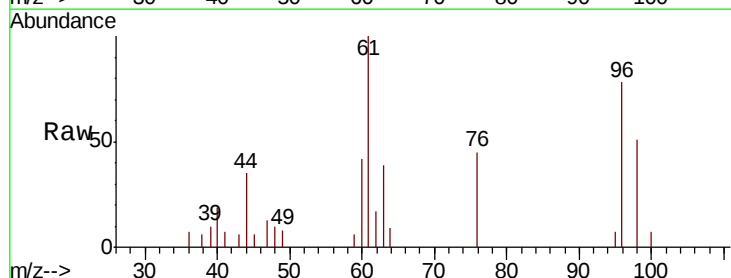
Instrument :
 MSVOA_V
 ClientSampled :

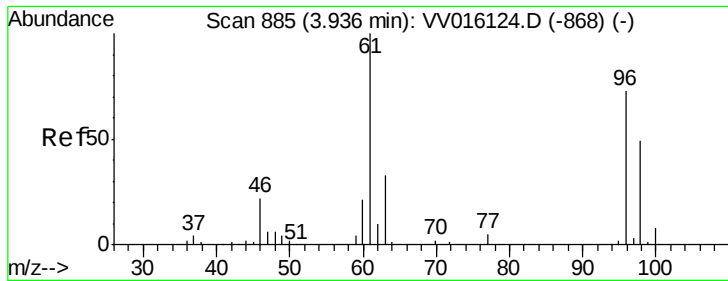
Tot Ion: 96 Resp: 576
 Ion Ratio Lower Upper
 96 100
 61 1492.6 139.9 259.7#
 63 11217.0 106.4 197.6#



#18
 trans-1,2-Dichloroethene
 Concen: 0.279 ug/L
 RT: 2.78 min Scan# 527
 Delta R.T. 0.01 min
 Lab File: VV016141.D
 Acq: 20 May 2020 18:57

Tgt Ion: 96 Resp: 2485
 Ion Ratio Lower Upper
 96 100
 61 127.5 105.3 195.5
 98 64.9 44.0 81.6



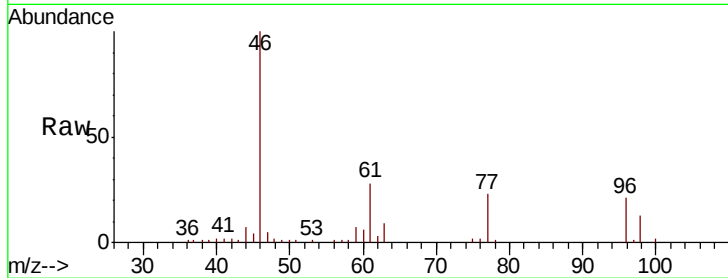


#22

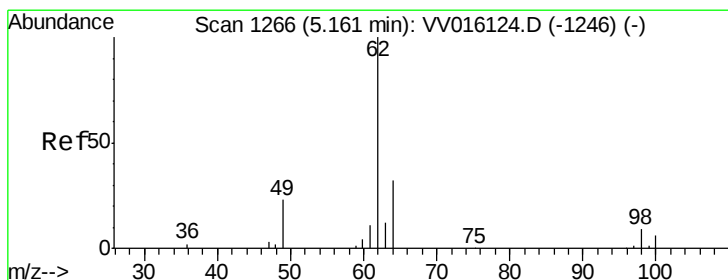
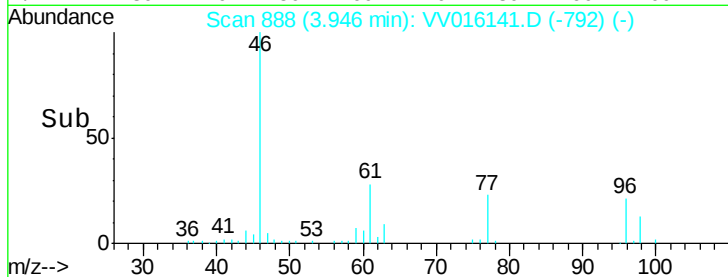
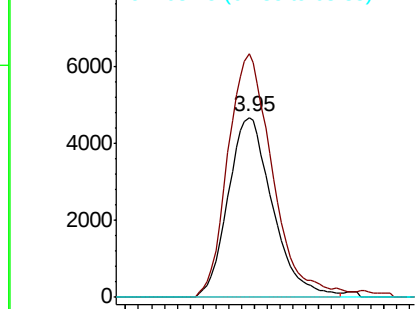
cis-1,2-Dichloroethene
 Concen: 1.199 ug/L
 RT: 3.95 min Scan# 888
 Delta R.T. 0.01 min
 Lab File: VV016141.D
 Acq: 20 May 2020 18:57

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 96 Resp: 11163
 Ion Ratio Lower Upper
 96 100
 61 135.3 97.2 180.6
 68 0.0 0.0 0.0



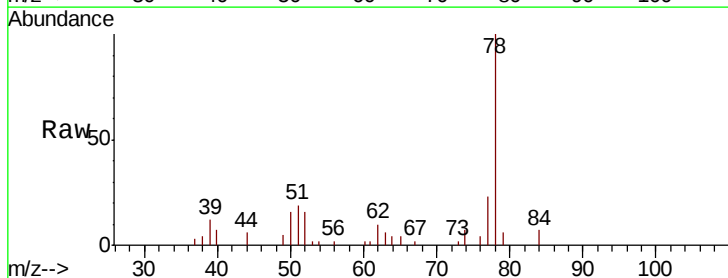
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



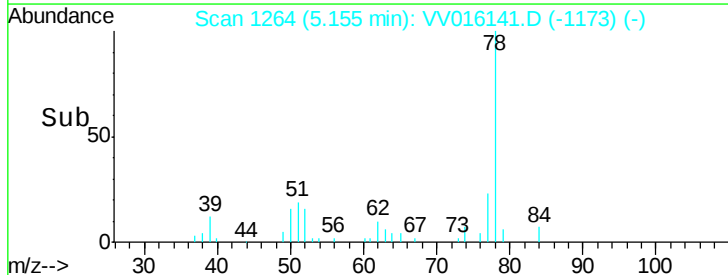
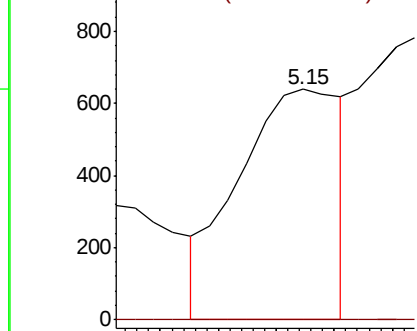
#27

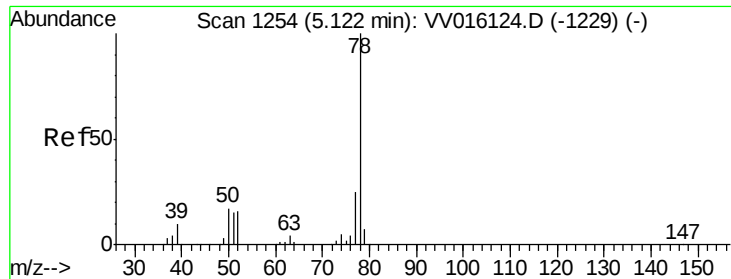
1,2-Dichloroethane
 Concen: 0.068 ug/L
 RT: 5.15 min Scan# 1264
 Delta R.T. -0.01 min
 Lab File: VV016141.D
 Acq: 20 May 2020 18:57

Tgt Ion: 62 Resp: 788
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.7 10.1#



Abundance Ion 62.00 (61.70 to 62.70): VV0
 Ion 98.05 (97.75 to 98.75): VV0





#33

Benzene

Concen: 1.519 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VV016141.D

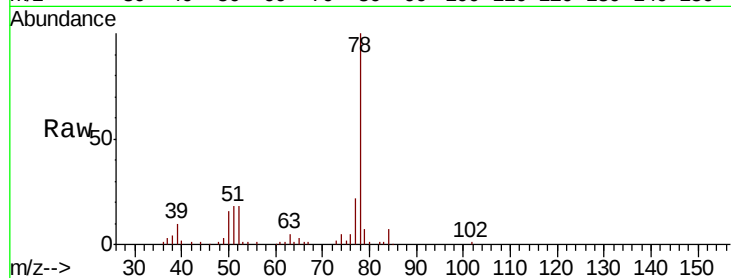
Acq: 20 May 2020 18:57

Instrument :

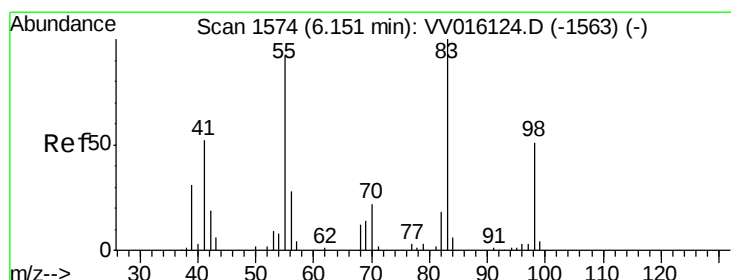
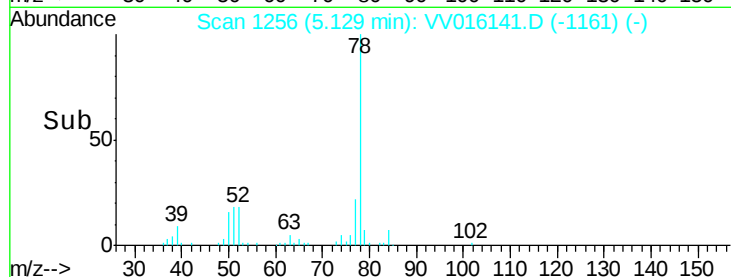
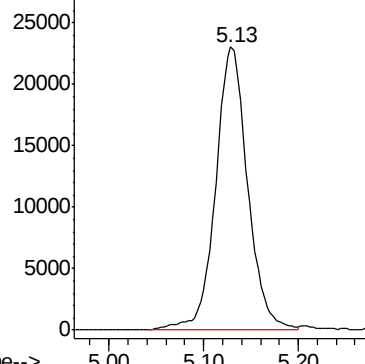
MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 54287



Abundance Ion 78.10 (77.80 to 78.80): VV0



#35

Methylcyclohexane

Concen: 0.906 ug/L

RT: 6.10 min Scan# 1557

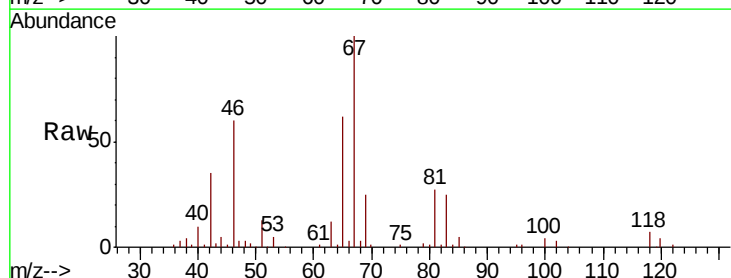
Delta R.T. -0.05 min

Lab File: VV016141.D

Acq: 20 May 2020 18:57

Tgt Ion: 83 Resp: 13971

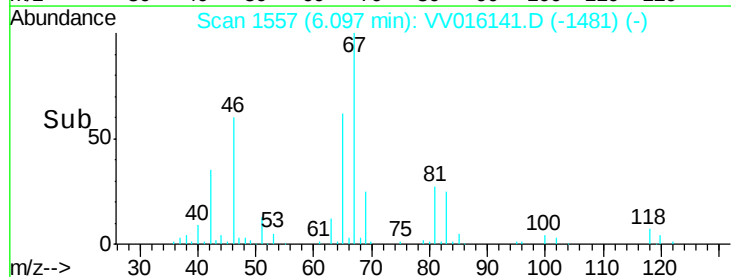
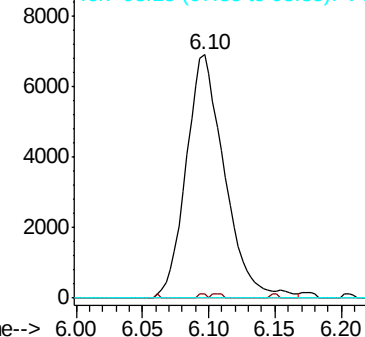
Ion	Ratio	Lower	Upper
83	100		
55	0.3	66.2	99.2#
98	0.0	37.9	56.9#

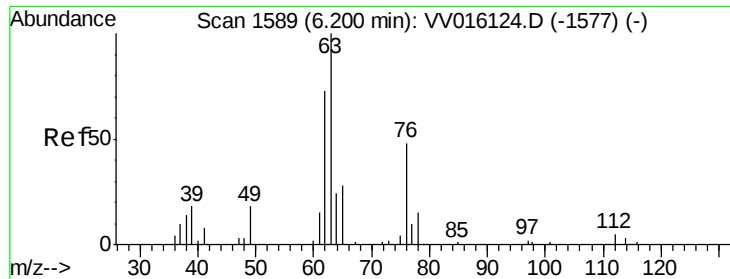


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

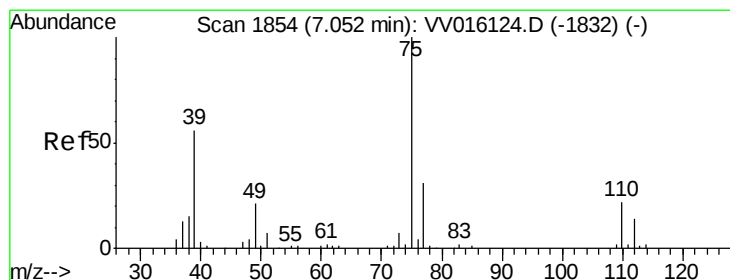
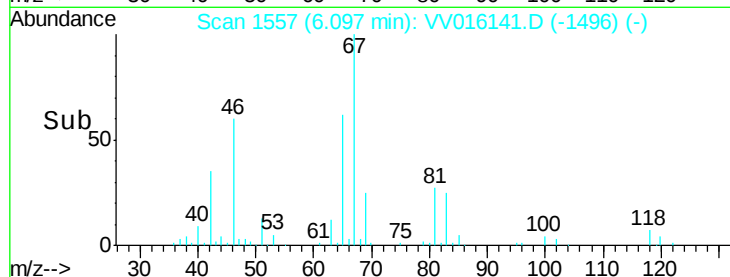
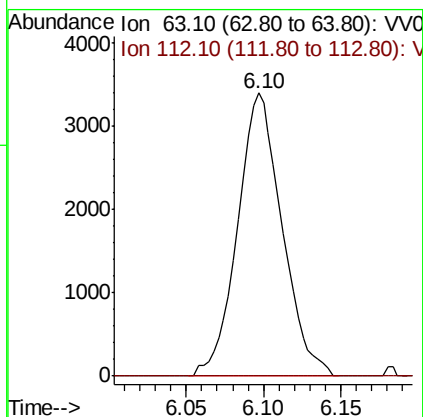
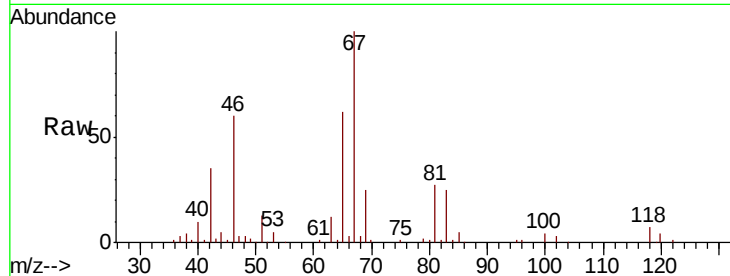




#37
 1,2-Dichloropropane
 Concen: 0.748 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV016141.D
 Acq: 20 May 2020 18:57

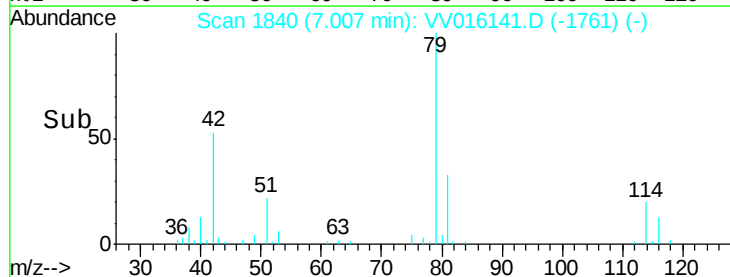
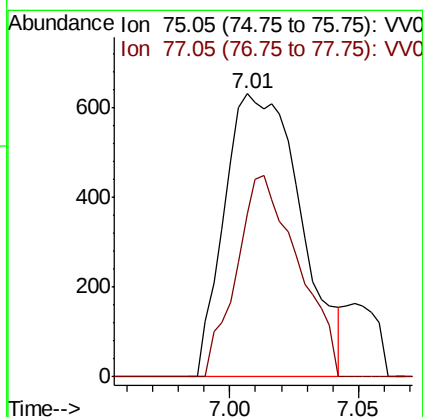
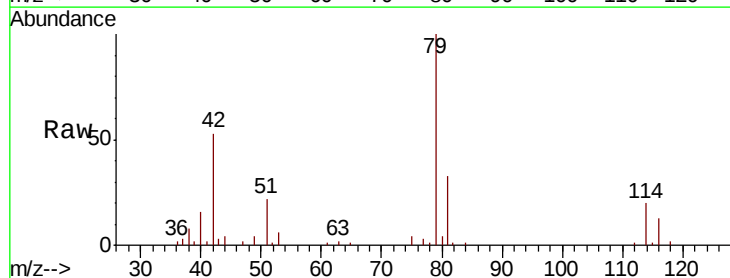
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 MSVOA_V
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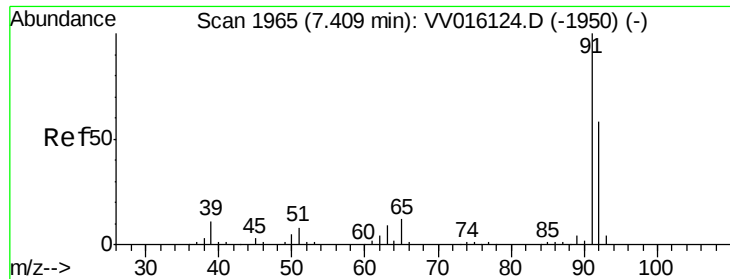
Tot Ion: 63 Resp: 6785
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.4 5.0#



#39
 cis-1,3-Dichloropropene
 Concen: 0.101 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.05 min
 Lab File: VV016141.D
 Acq: 20 May 2020 18:57

Tgt Ion: 75 Resp: 1298
 Ion Ratio Lower Upper
 75 100
 77 57.8 21.3 39.5#





#42

Toluene

Concen: 4.629 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV016141.D

Acq: 20 May 2020 18:57

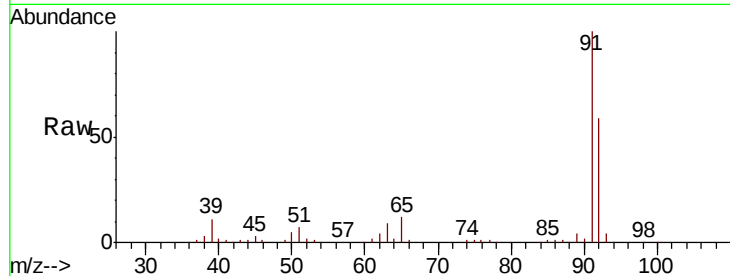
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 175292

Ion Ratio Lower Upper

91 100

92 58.9 40.1 74.5



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.41

100000

80000

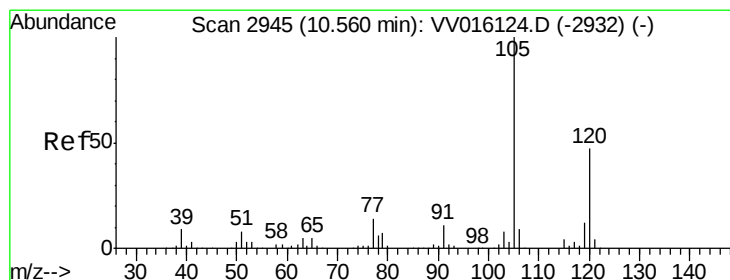
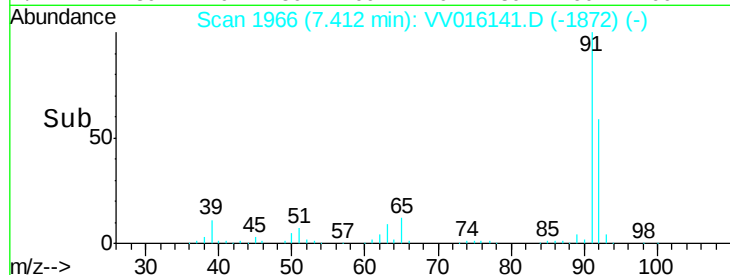
60000

40000

20000

0

Time-->



#43

1,3,5-Trimethylbenzene

Concen: 0.297 ug/L

RT: 10.56 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VV016141.D

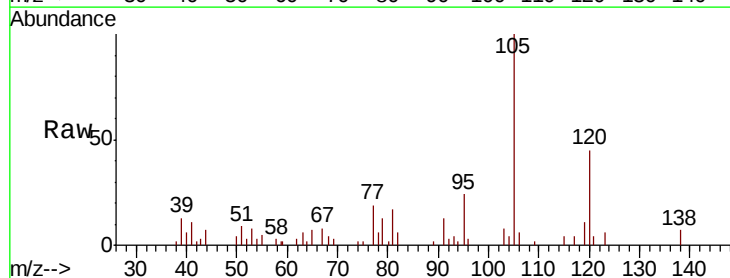
Acq: 20 May 2020 18:57

Tgt Ion:105 Resp: 10309

Ion Ratio Lower Upper

105 100

120 44.0 0.0 0.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

10.56

8000

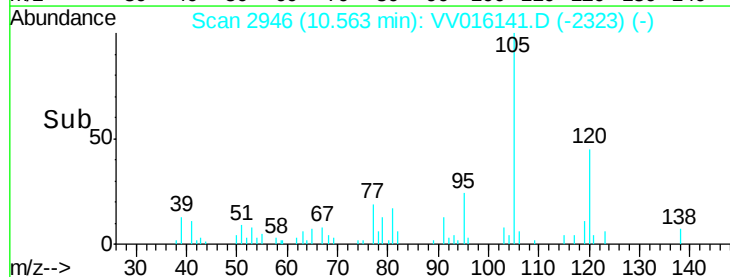
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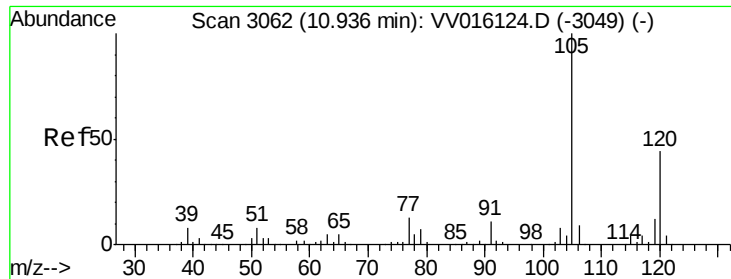
4000

2000

0

Time-->

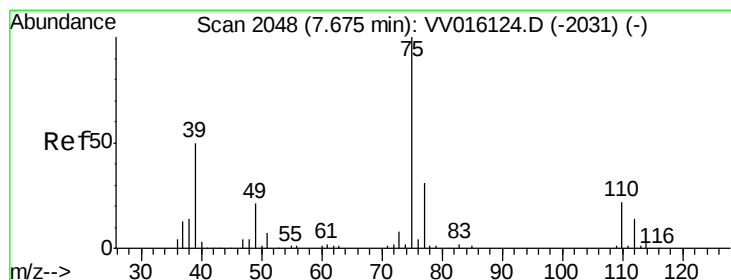
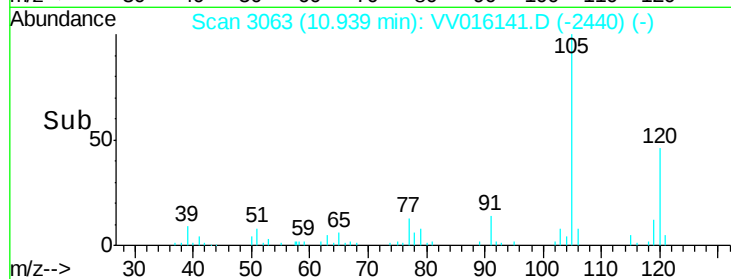
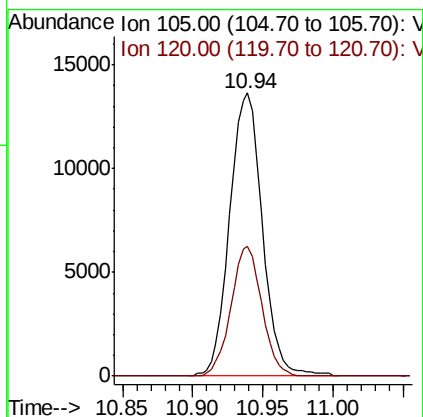
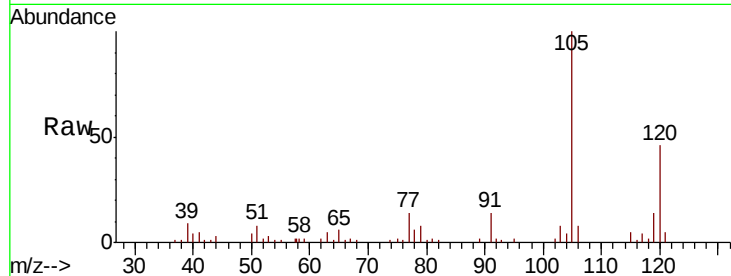




#44
 1,2,4-Trimethylbenzene
 Concen: 0.640 ug/L
 RT: 10.94 min Scan# 3063
 Delta R.T. 0.00 min
 Lab File: VV016141.D
 Acq: 20 May 2020 18:57

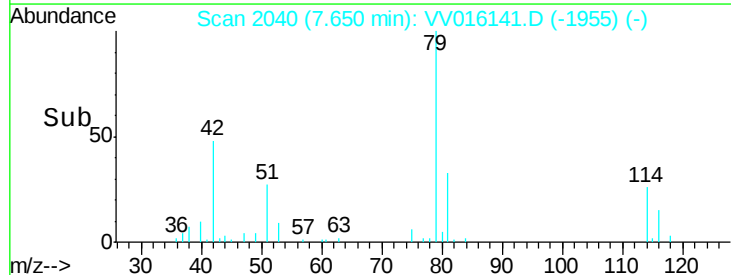
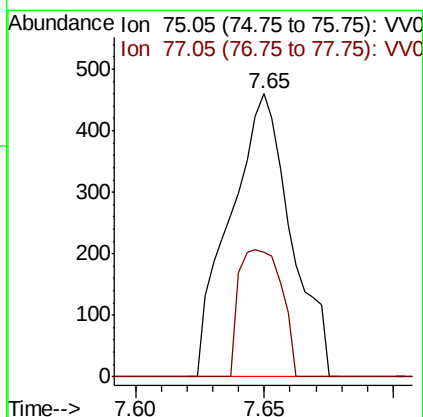
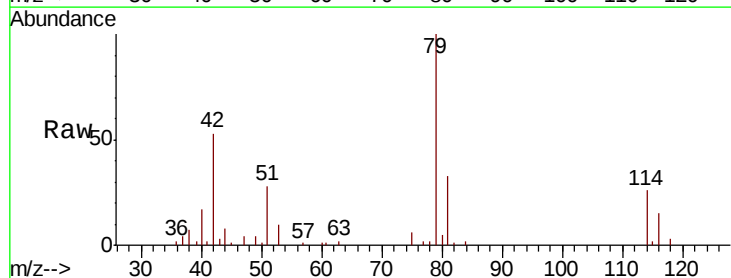
Instrument :
 MSVOA_V
 ClientSampled :

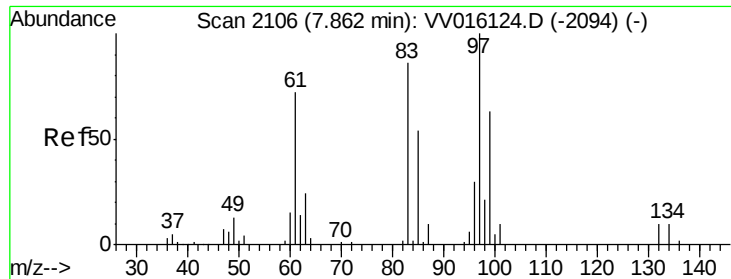
Tot Ion:105 Resp: 22219
 Ion Ratio Lower Upper
 105 100
 120 43.2 0.0 0.0#



#46
 trans-1,3-Dichloropropene
 Concen: 0.070 ug/L
 RT: 7.65 min Scan# 2040
 Delta R.T. -0.03 min
 Lab File: VV016141.D
 Acq: 20 May 2020 18:57

Tgt Ion: 75 Resp: 754
 Ion Ratio Lower Upper
 75 100
 77 44.1 21.3 39.6#

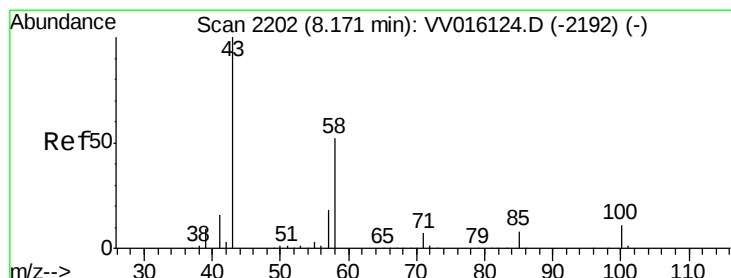
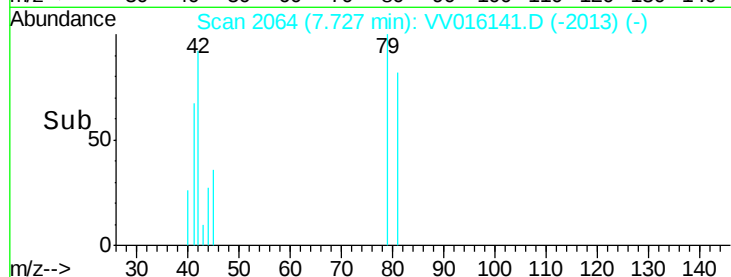
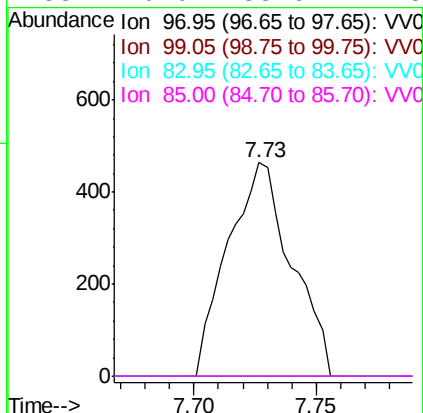
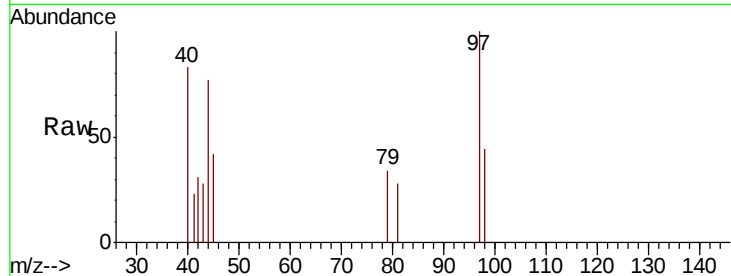




#47
 1,1,2-Trichloroethane
 Concen: 0.138 ug/L
 RT: 7.73 min Scan# 2064
 Delta R.T. -0.14 min
 Lab File: VV016141.D
 Acq: 20 May 2020 18:57

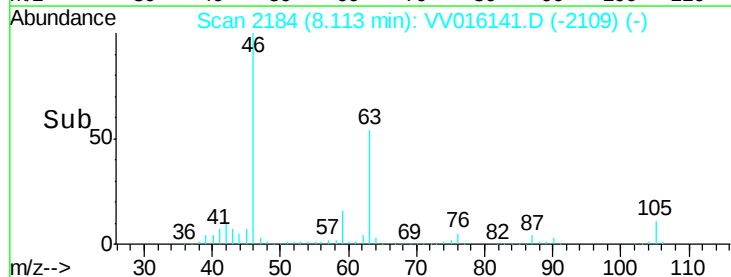
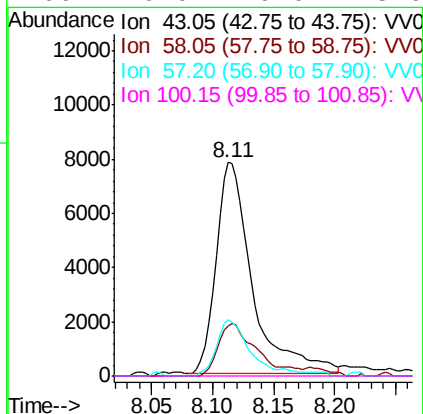
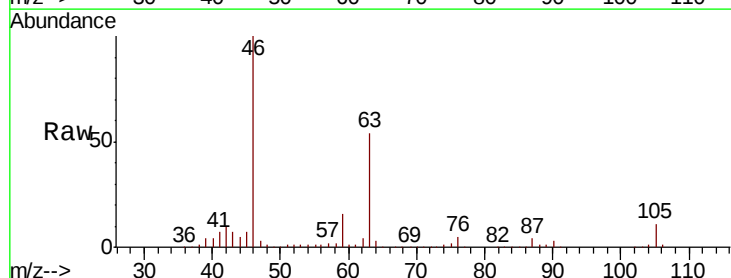
Instrument :
 MSVOA_V
 ClientSampleId :

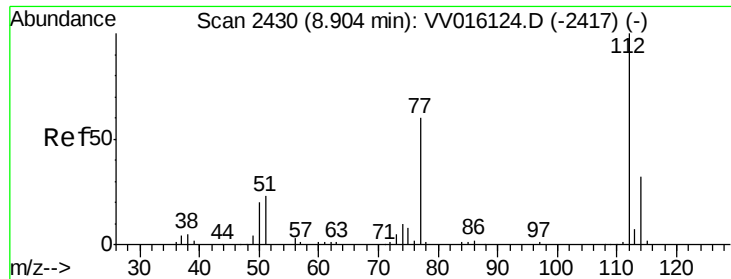
Tot Ion: 97 Resp: 839
 Ion Ratio Lower Upper
 97 100
 99 0.0 42.1 78.1#
 83 0.0 59.2 110.0#
 85 0.0 38.6 71.8#



#50
 2-Hexanone
 Concen: 4.062 ug/L
 RT: 8.11 min Scan# 2184
 Delta R.T. -0.06 min
 Lab File: VV016141.D
 Acq: 20 May 2020 18:57

Tgt Ion: 43 Resp: 16252
 Ion Ratio Lower Upper
 43 100
 58 26.4 40.8 61.2#
 57 25.5 14.7 22.1#
 100 0.0 9.0 13.6#

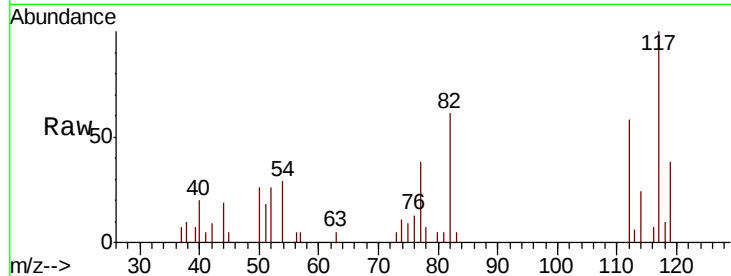




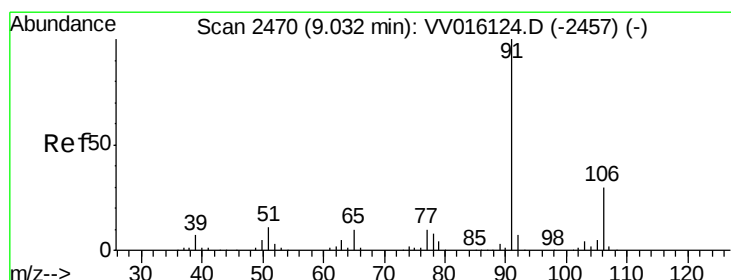
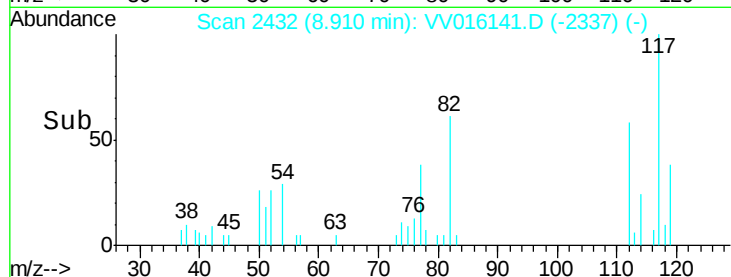
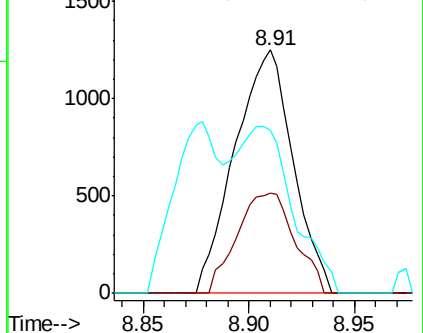
#53
Chlorobenzene
Concen: 0.099 ug/L
RT: 8.91 min Scan# 2432
Delta R.T. 0.01 min
Lab File: VV016141.D
Acq: 20 May 2020 18:57

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:112 Resp: 2399
Ion Ratio Lower Upper
112 100
114 41.1 21.6 40.0#
77 66.7 48.6 73.0

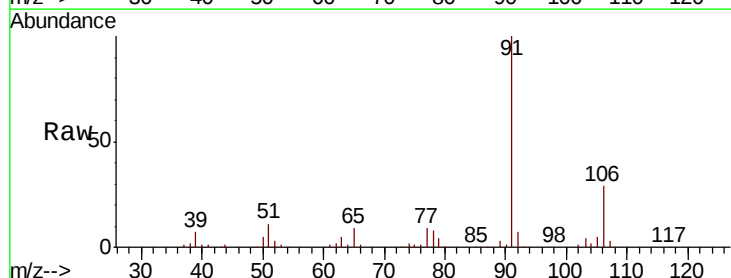


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

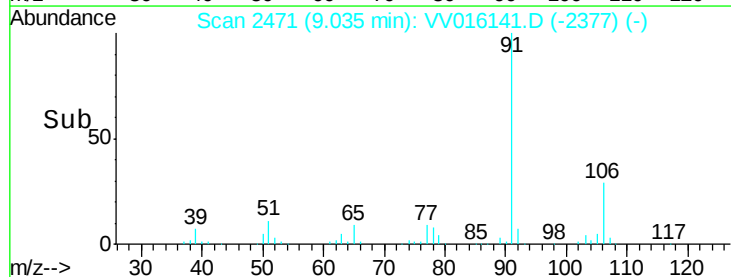
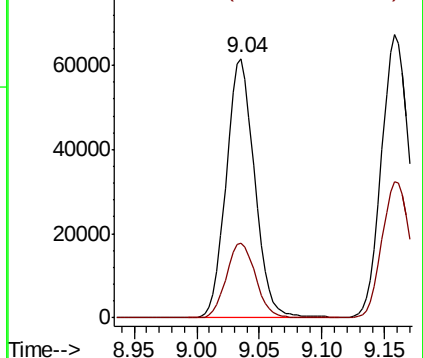


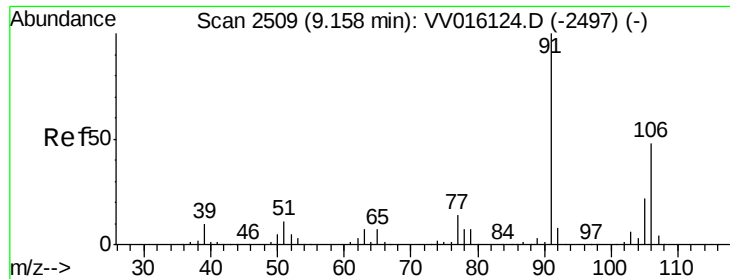
#54
Ethylbenzene
Concen: 2.266 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV016141.D
Acq: 20 May 2020 18:57

Tgt Ion: 91 Resp: 97584
Ion Ratio Lower Upper
91 100
106 28.9 20.6 38.4



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





#55

m,p-xylene

Concen: 3.327 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV016141.D

Acq: 20 May 2020 18:57

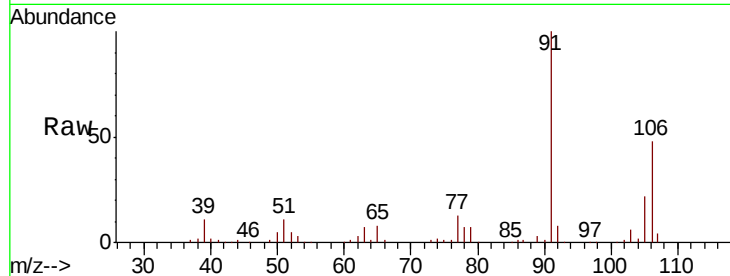
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 53053

Ion Ratio Lower Upper

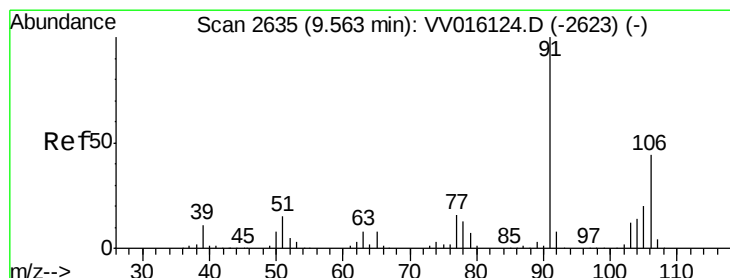
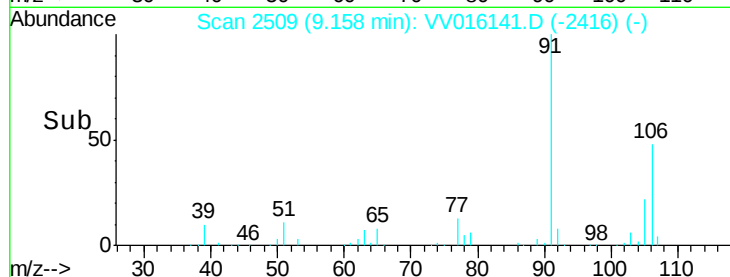
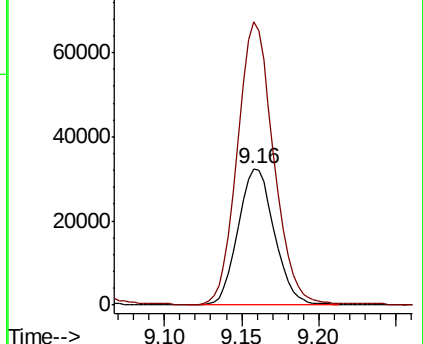
106 100

91 207.6 149.9 278.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

o-xylene

Concen: 1.724 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV016141.D

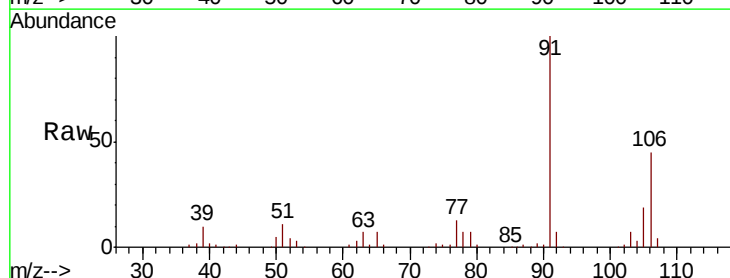
Acq: 20 May 2020 18:57

Tgt Ion:106 Resp: 26276

Ion Ratio Lower Upper

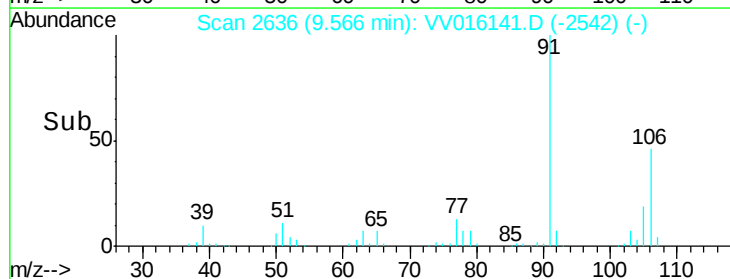
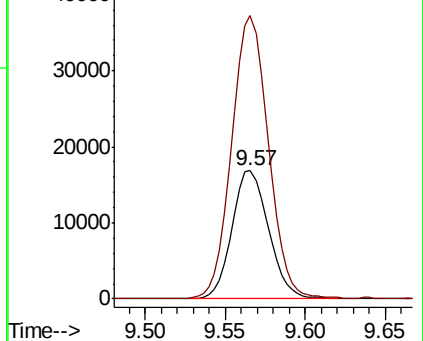
106 100

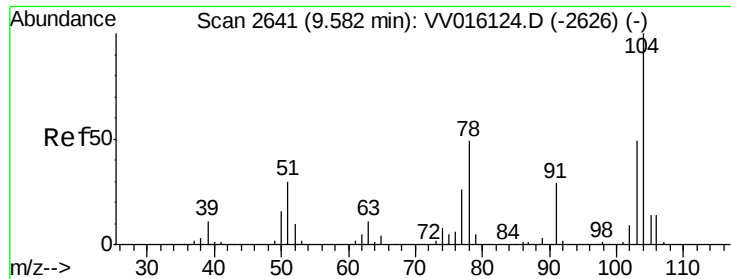
91 220.4 159.7 296.5



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#57

Stvrene

Concen: 0.158 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VV016141.D

Acq: 20 May 2020 18:57

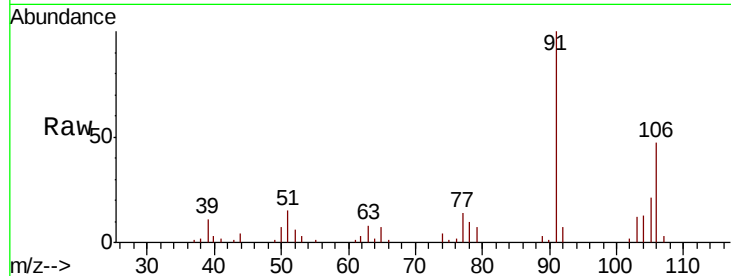
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:104 Resp: 4019

Ion Ratio Lower Upper

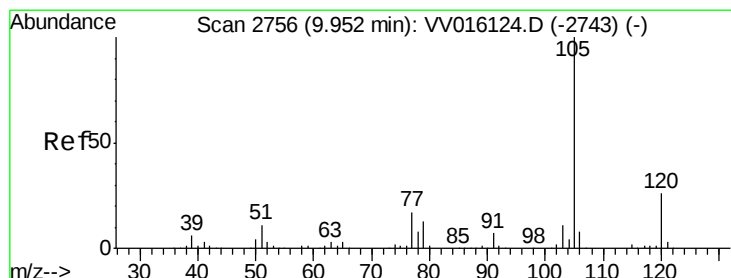
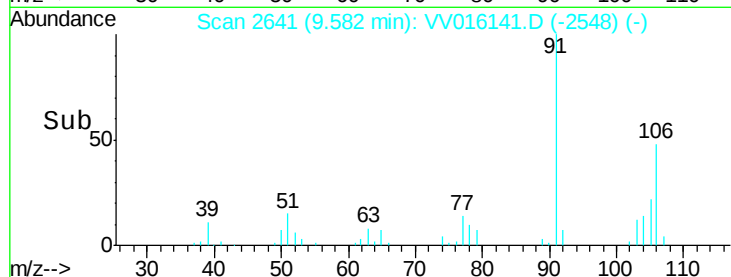
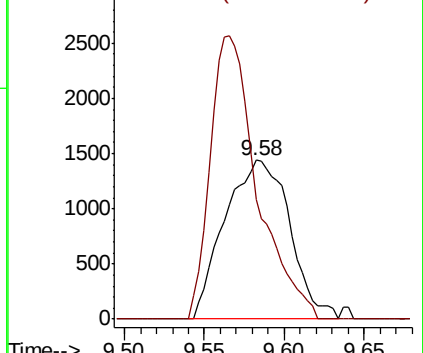
104 100

78 75.0 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: 0.075 ug/L

RT: 9.96 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV016141.D

Acq: 20 May 2020 18:57

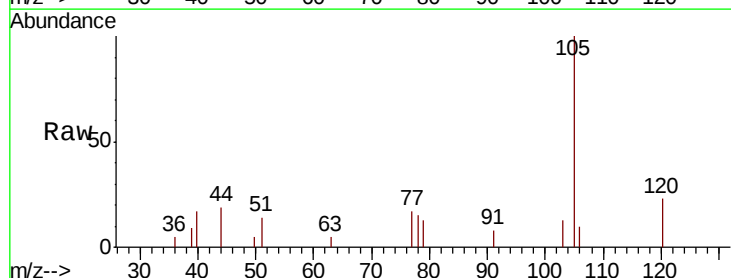
Tgt Ion:105 Resp: 3126

Ion Ratio Lower Upper

105 100

120 25.1 20.8 31.2

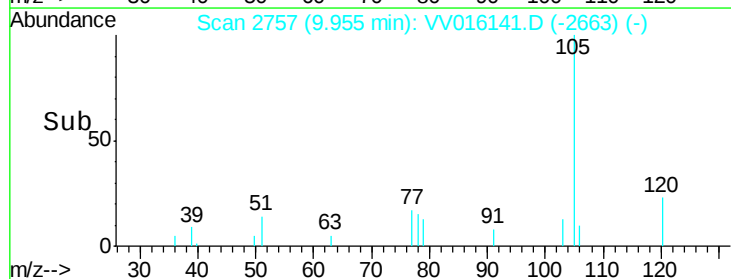
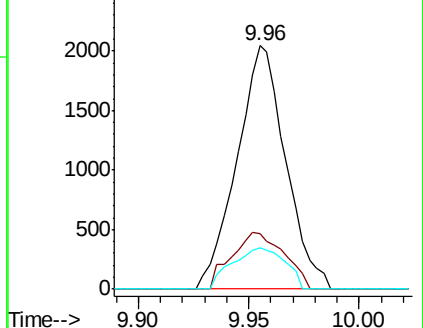
77 18.3 14.1 21.1

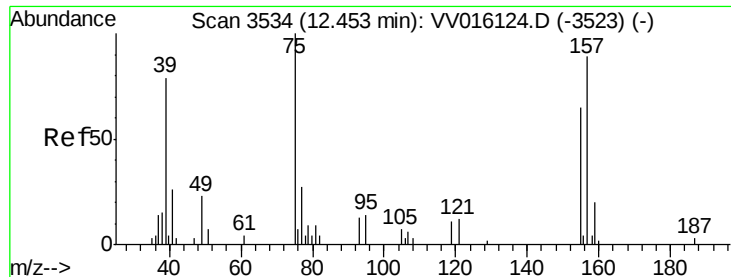


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0





#67
 1,2-Dibromo-3-chloropropane
 Concen: 1.541 ug/L
 RT: 12.49 min Scan# 3544
 Delta R.T. 0.03 min
 Lab File: VV016141.D
 Acq: 20 May 2020 18:57

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 75 Resp: 1802
 Ion Ratio Lower Upper
 75 100
 155 0.0 58.2 87.4#
 157 0.0 79.4 119.2#

