

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061220\
 Data File : VV016911.D
 Acq On : 13 Jun 2020 04:53
 Operator : SY/MD
 Sample : L2990-13MS
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 E3YG8MS

Quant Time: Jun 13 06:16:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 13 06:09:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.65	114	370686	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.88	117	349807	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	191156	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	103136	39.43	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	78.86%
7) Chloroethane-d5	1.57	69	62278	39.68	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	79.36%
11) 1,1-Dichloroethene-d2	2.12	63	206634	47.05	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	94.10%
21) 2-Butanone-d5	3.90	46	173724	89.74	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	89.74%
24) Chloroform-d	4.38	84	224146	42.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.28%
26) 1,2-Dichloroethane-d4	5.06	65	170633	47.17	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.34%
32) Benzene-d6	5.08	84	434654	43.10	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.20%
36) 1,2-Dichloropropane-d6	6.10	67	132828	42.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	84.52%
41) Toluene-d8	7.36	98	146473	15.83	ug/L	0.03
Spiked Amount	50.000	Range	80 - 120	Recovery	=	31.66%#
43) trans-1,3-Dichloropropene-	7.66	79	66378	40.55	ug/L	0.02
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.10%
47) 2-Hexanone-d5	8.12	63	113092	82.53	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	82.53%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	169521	40.74	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	81.48%
64) 1,2-Dichlorobenzene-d4	11.65	152	176895	43.36	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	86.72%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	11036	4.176	ug/L #	78
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1888	0.958	ug/L #	19
12) 1,1-Dichloroethene	2.13	96	91994	50.002	ug/L	93
13) Acetone	2.18	43	3606	2.827	ug/L	75
15) Methyl Acetate	2.44	43	54932	19.322	ug/L	99
19) 1,1-Dichloroethane	3.21	63	28722	6.083	ug/L	99
20) cis-1,2-Dichloroethene	3.94	96	81321	29.736	ug/L	98
22) 2-Butanone	4.01	43	2898	1.473	ug/L	94
29) Cyclohexane	4.70	56	455113	104.698	ug/L	98
30) 1,1,1-Trichloroethane	4.64	97	4321	0.969	ug/L #	86
33) Benzene	5.13	78	477978	46.182	ug/L	100
34) Trichloroethene	5.94	95	132206	47.629	ug/L	98
35) Methylcyclohexane	6.16	83	2579740	592.418	ug/L	98
37) 1,2-Dichloropropane	6.16	63	29128	10.822	ug/L #	86
39) cis-1,3-Dichloropropene	7.02	75	5737	1.372	ug/L #	17
51) Chlorobenzene	8.91	112	353808	49.704	ug/L	98
53) m,p-Xylene	9.06	106	20304737	4512.557	ug/L #	31

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QLast Update : Sat Jun 13 06:09:05 2020
Response via : Initial Calibration

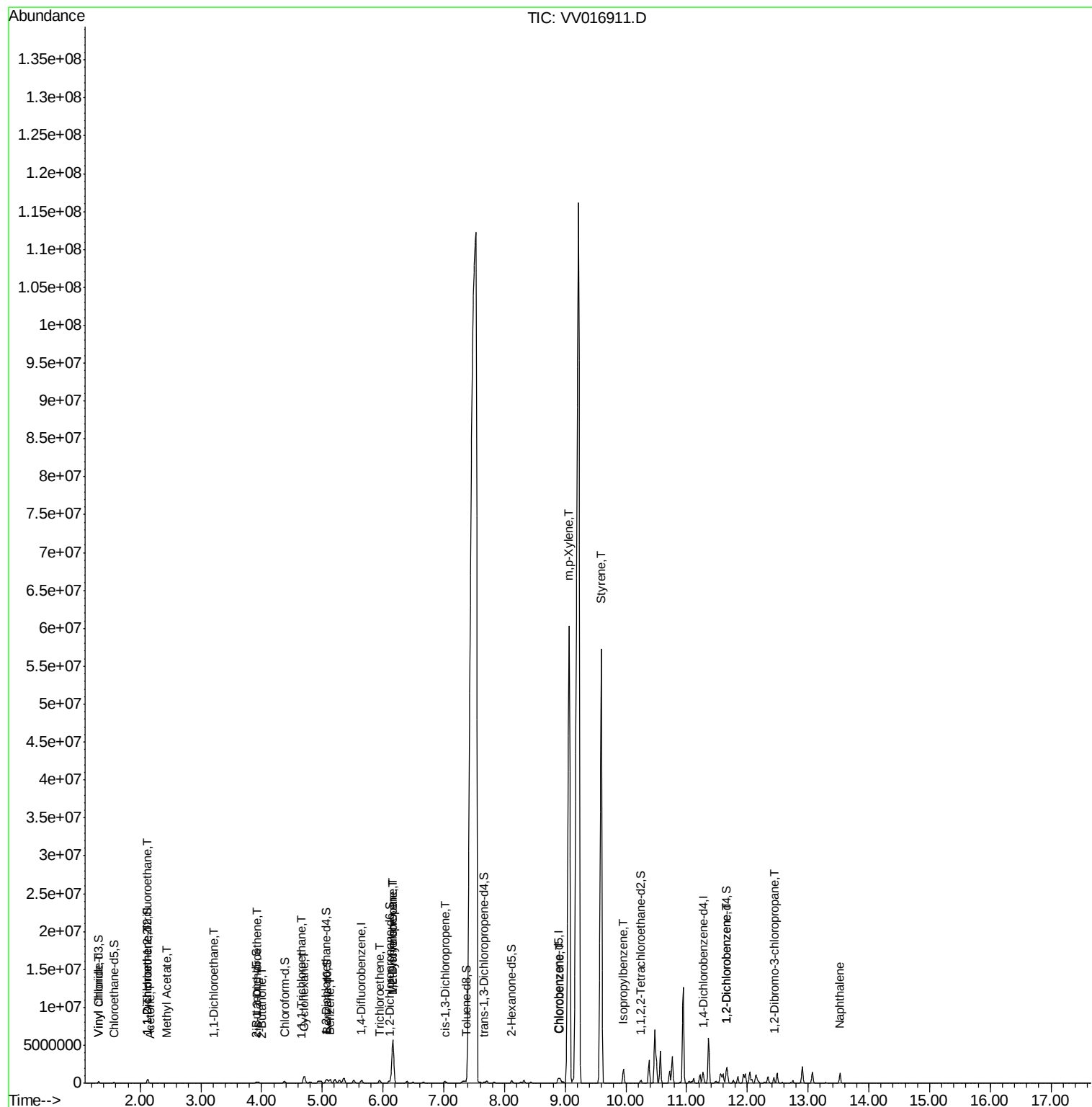
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	9.59	104	1056259	140.780	ug/L #	1
56) Isopropylbenzene	9.96	105	1137689	95.411	ug/L	100
65) 1,2-Dichlorobenzene	11.67	146	29916	4.931	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.44	75	3425	3.590	ug/L #	5
69) Naphthalene	13.52	128	991410	83.228	ug/L	100

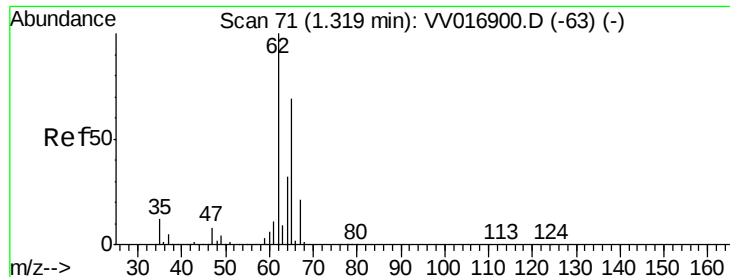
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 13 06:09:05 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 4.176 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

MSVOA_V

ClientSampleId :

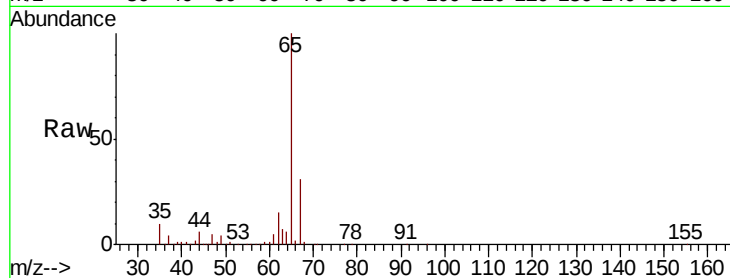
E3YG8MS

Tot Ion: 62 Resp: 11036

Ion Ratio Lower Upper

62 100

64 44.0 22.3 41.5#



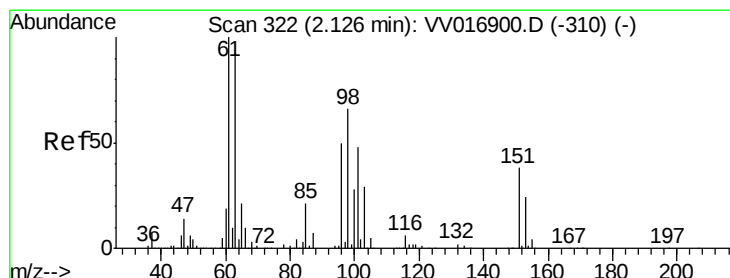
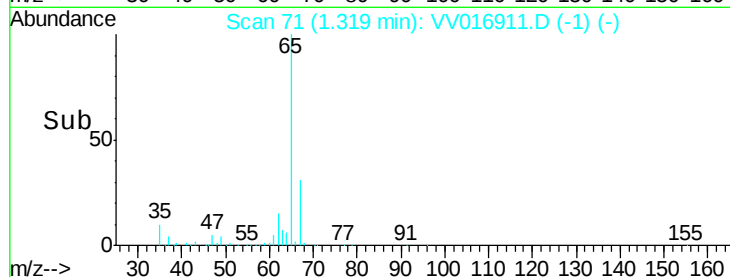
Abundance Ion 62.00 (61.70 to 62.70): VV016911.D (-63) (-)

Ion 64.00 (63.70 to 64.70): VV016911.D (-63) (-)

1.32

1.35

Time-->



#10

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

Concen: 0.958 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

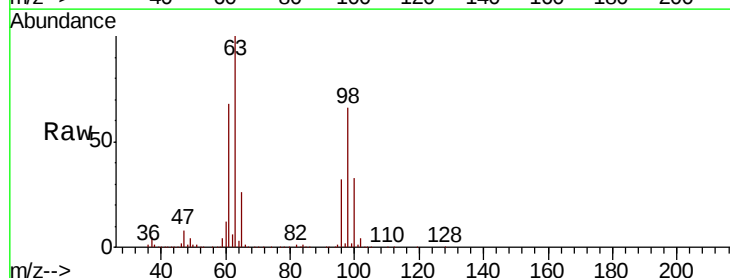
Tgt Ion: 101 Resp: 1888

Ion Ratio Lower Upper

101 100

85 2.3 35.5 53.3#

151 0.0 63.9 95.9#



Abundance Ion 101.00 (100.70 to 101.70): VV016911.D (-229) (-)

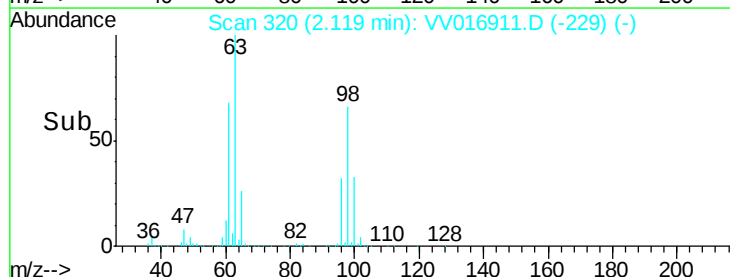
Ion 85.00 (84.70 to 85.70): VV016911.D (-229) (-)

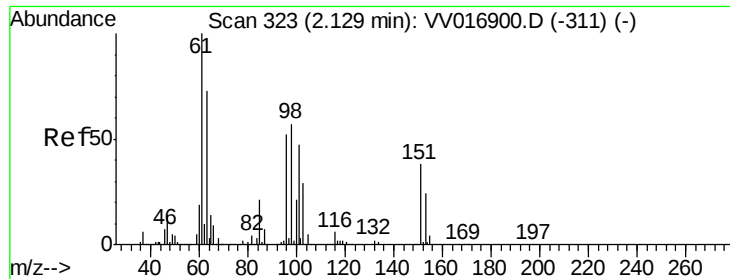
Ion 151.00 (150.70 to 151.70): VV016911.D (-229) (-)

2.12

2.15

Time-->

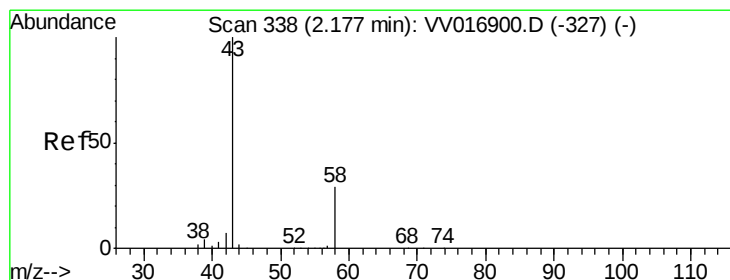
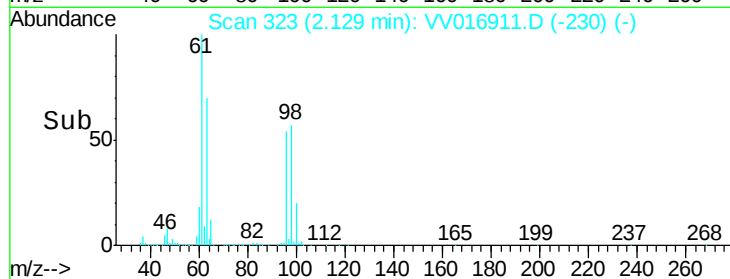
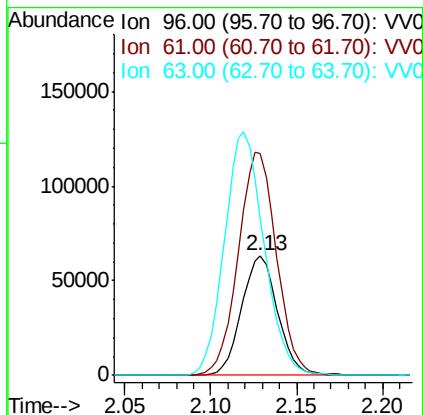
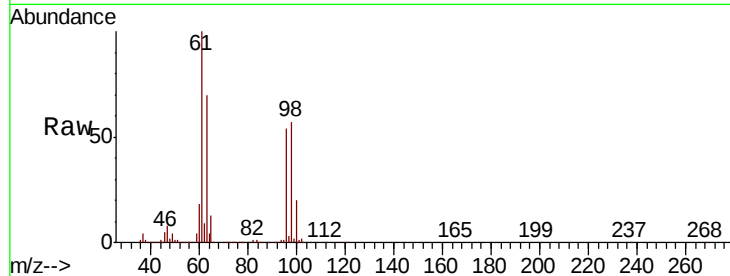




#12
 1,1-Dichloroethene
 Concen: 50.002 ug/L
 RT: 2.13 min Scan# 323
 Delta R.T. 0.00 min
 Lab File: VV016911.D
 Acq: 13 Jun 2020 04:53

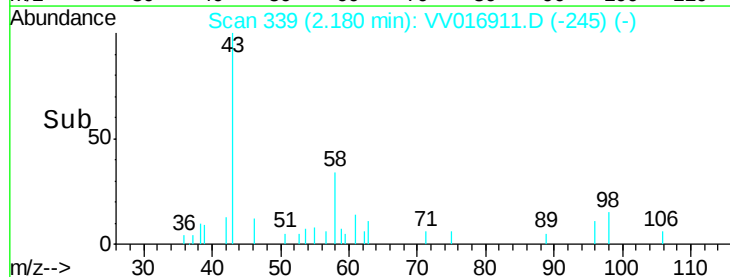
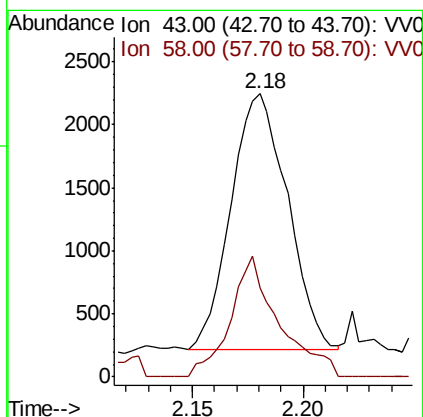
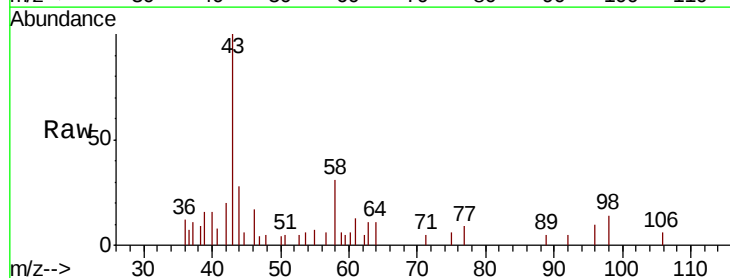
Instrument :
 MSVOA_V
 ClientSampleId :
 E3YG8MS

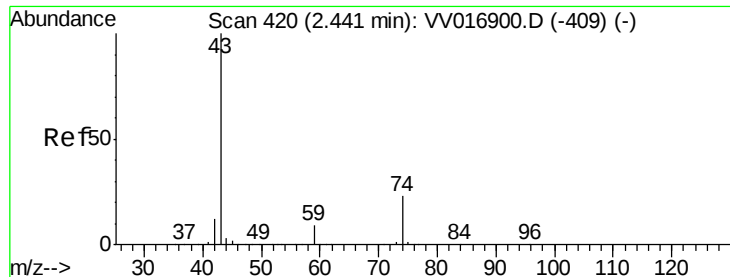
Tot Ion: 96 Resp: 91994
 Ion Ratio Lower Upper
 96 100
 61 184.7 130.4 242.2
 63 130.0 103.3 191.9



#13
 Acetone
 Concen: 2.827 ug/L
 RT: 2.18 min Scan# 339
 Delta R.T. 0.00 min
 Lab File: VV016911.D
 Acq: 13 Jun 2020 04:53

Tgt Ion: 43 Resp: 3606
 Ion Ratio Lower Upper
 43 100
 58 40.5 0.0 55.2





#15

Methyl Acetate

Concen: 19.322 ug/L

RT: 2.44 min Scan# 420

Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

MSVOA_V

ClientSampleId :

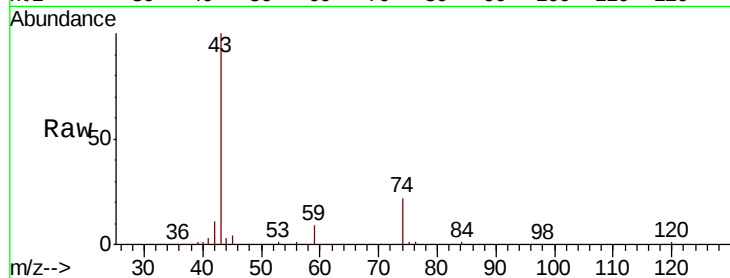
E3YG8MS

Tot Ion: 43 Resp: 54932

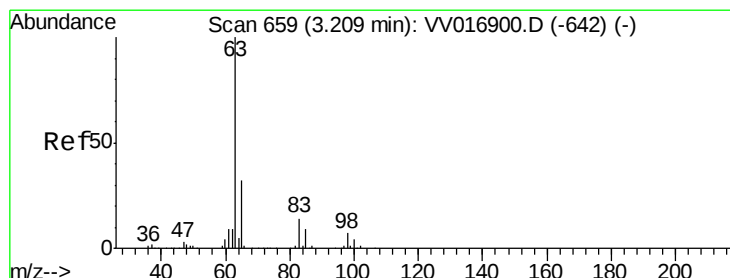
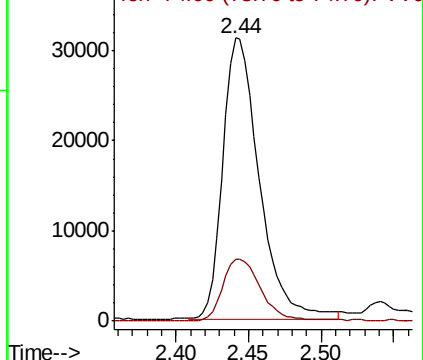
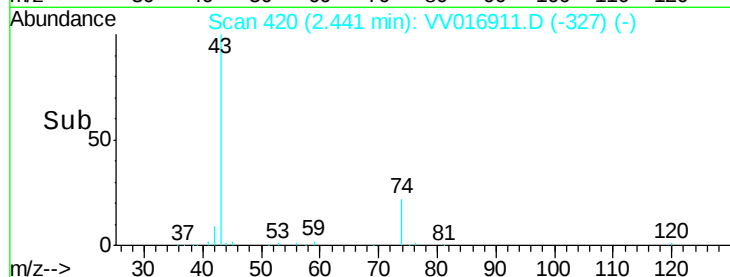
Ion Ratio Lower Upper

43 100

74 22.6 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VV016911.D (-327) (-)



#19

1,1-Dichloroethane

Concen: 6.083 ug/L

RT: 3.21 min Scan# 659

Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

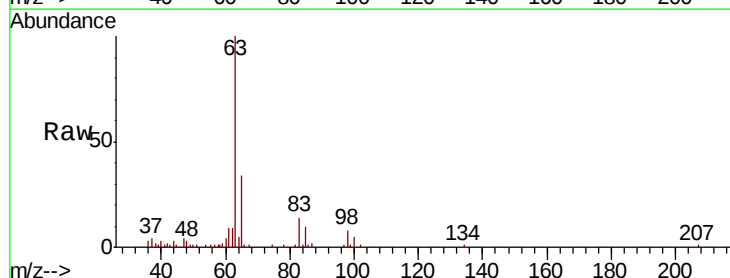
Tgt Ion: 63 Resp: 28722

Ion Ratio Lower Upper

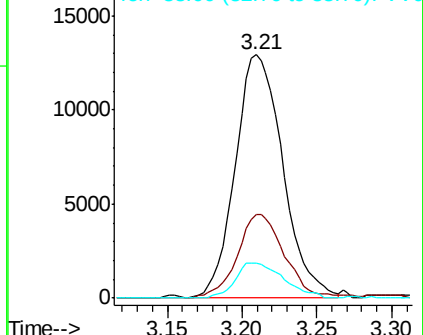
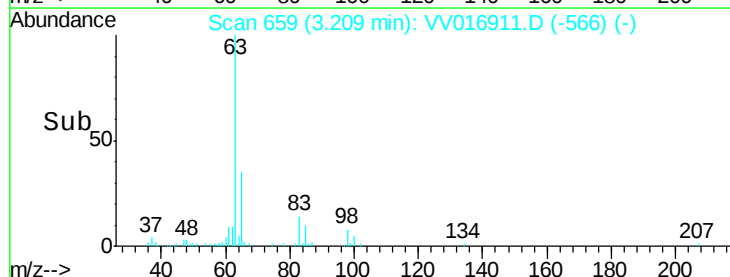
63 100

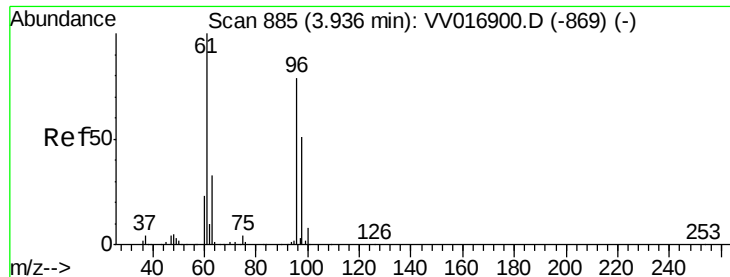
65 34.2 23.2 43.0

83 14.3 10.0 18.6



Abundance Ion 63.00 (62.70 to 63.70): VV016911.D (-566) (-)

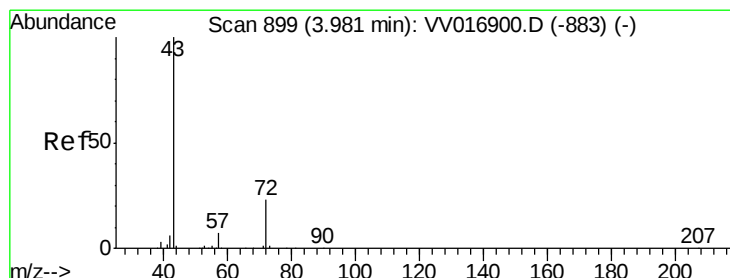
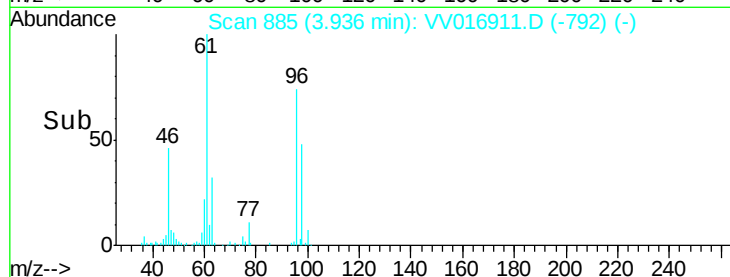
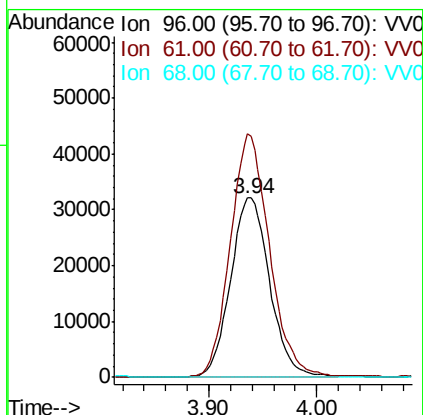
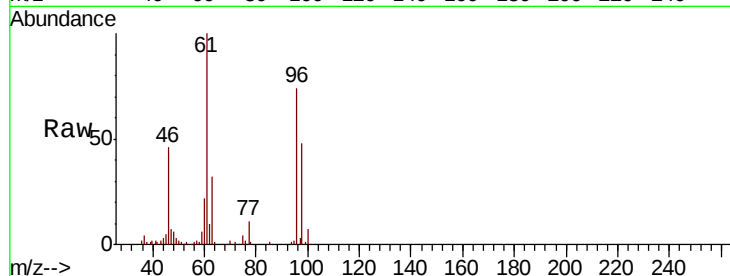




#20
 cis-1,2-Dichloroethene
 Concen: 29.736 ug/L
 RT: 3.94 min Scan# 885
 Delta R.T. 0.00 min
 Lab File: VV016911.D
 Acq: 13 Jun 2020 04:53

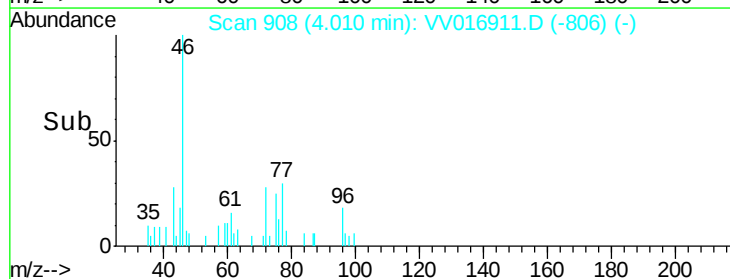
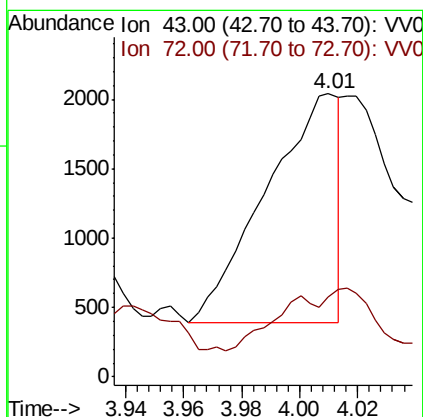
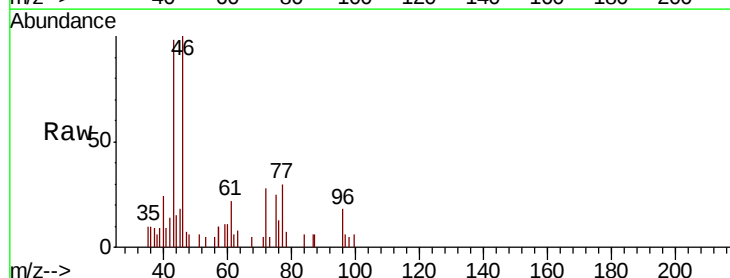
Instrument :
 MSVOA_V
 ClientSampleId :
 E3YG8MS

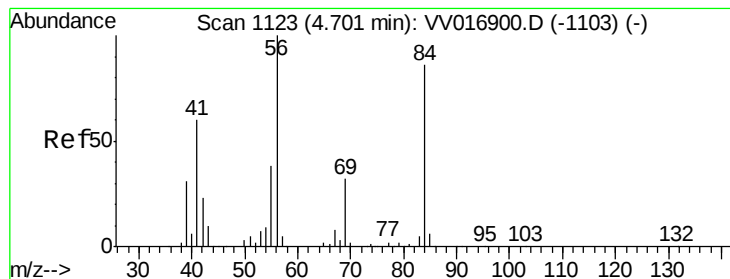
Tot Ion: 96 Resp: 81321
 Ion Ratio Lower Upper
 96 100
 61 135.7 93.4 173.4
 68 0.0 0.0 0.0



#22
 2-Butanone
 Concen: 1.473 ug/L
 RT: 4.01 min Scan# 908
 Delta R.T. 0.03 min
 Lab File: VV016911.D
 Acq: 13 Jun 2020 04:53

Tgt Ion: 43 Resp: 2898
 Ion Ratio Lower Upper
 43 100
 72 28.1 12.4 37.4





#29

Cyclohexane

Concen: 104.698 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

MSVOA_V

ClientSampleId :

E3YG8MS

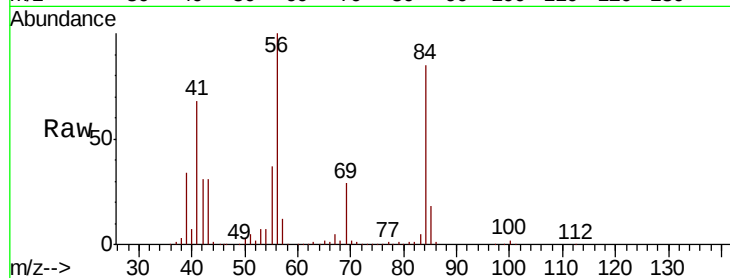
Tot Ion: 56 Resp: 455113

Ion Ratio Lower Upper

56 100

69 29.7 25.0 37.4

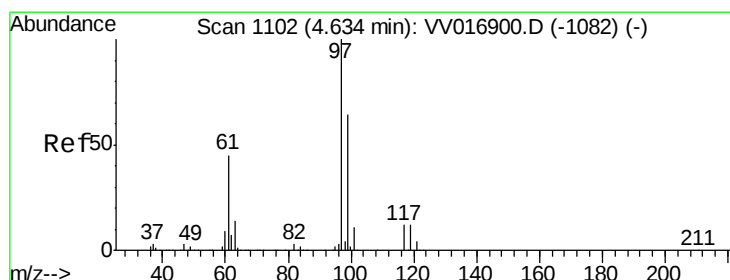
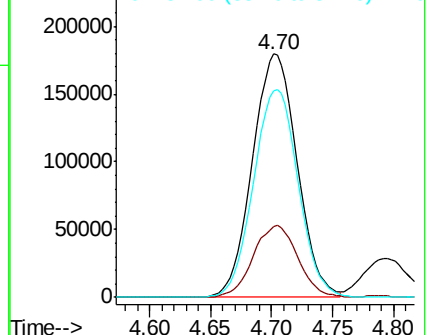
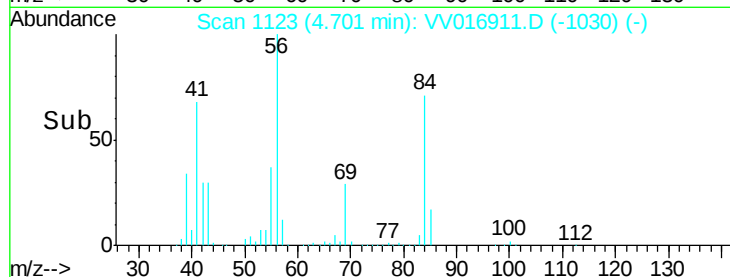
84 85.8 69.5 104.3



Abundance Ion 56.00 (55.70 to 56.70): VV016911.D (-1030) (-)

Ion 69.00 (68.70 to 69.70): VV016911.D (-1030) (-)

Ion 84.00 (83.70 to 84.70): VV016911.D (-1030) (-)



#30

1,1,1-Trichloroethane

Concen: 0.969 ug/L

RT: 4.64 min Scan# 1105

Delta R.T. 0.01 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

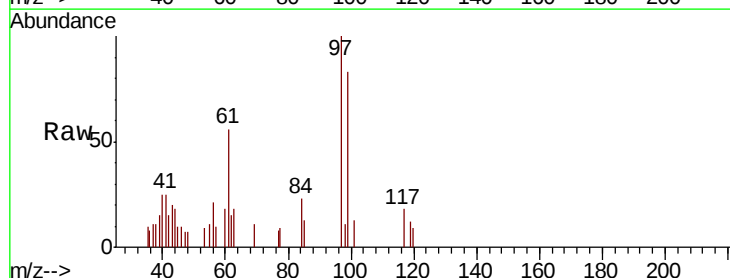
Tgt Ion: 97 Resp: 4321

Ion Ratio Lower Upper

97 100

99 72.1 51.3 76.9

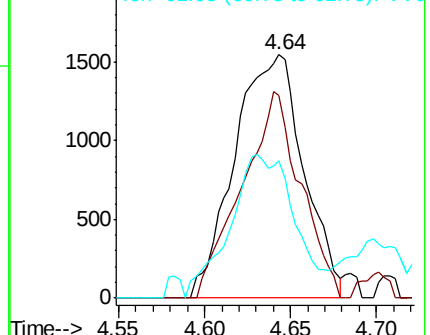
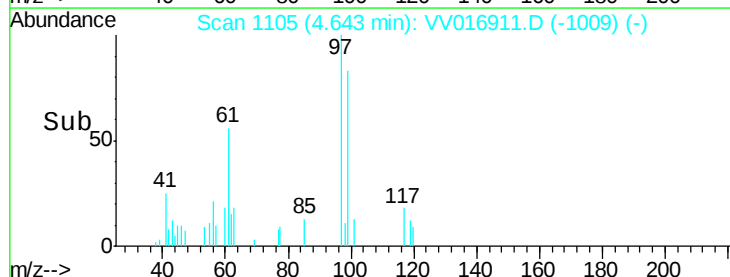
61 33.2 36.7 55.1#

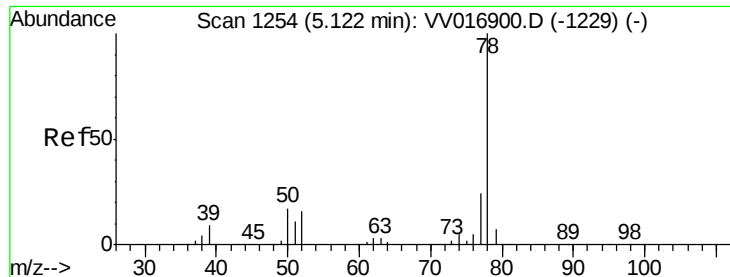


Abundance Ion 97.00 (96.70 to 97.70): VV016911.D (-1009) (-)

Ion 99.00 (98.70 to 99.70): VV016911.D (-1009) (-)

Ion 61.05 (60.75 to 61.75): VV016911.D (-1009) (-)





#33

Benzene

Concen: 46.182 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

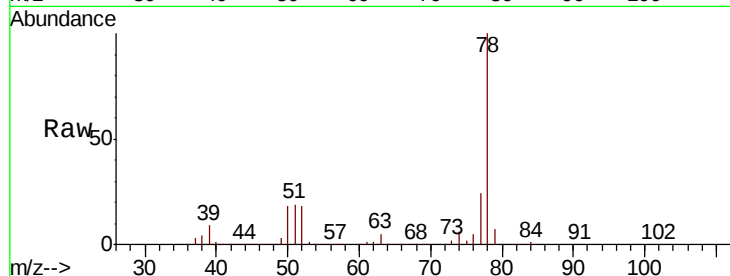
Instrument :

MSVOA_V

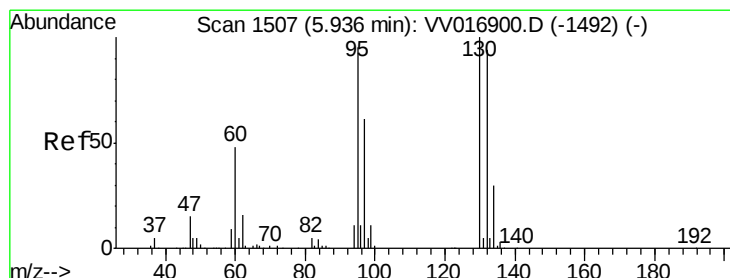
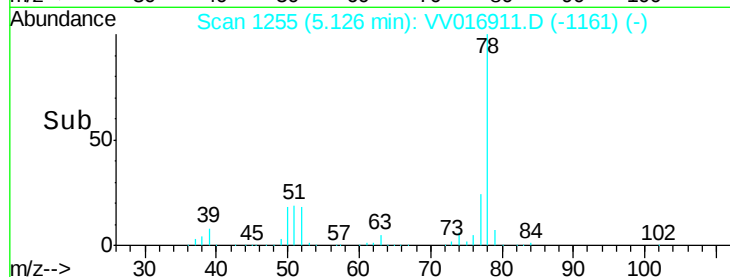
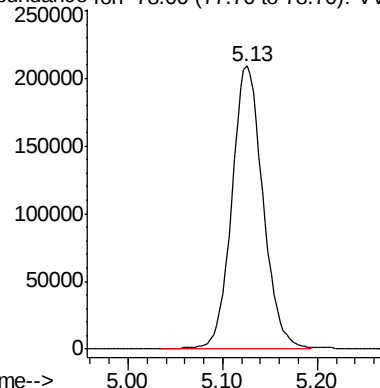
ClientSampleId :

E3YG8MS

Tgt Ion: 78 Resp: 477978



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 47.629 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Tgt Ion: 95 Resp: 132206

Ion	Ratio	Lower	Upper
95	100		
97	63.4	44.3	82.3
132	96.1	67.9	126.1
130	98.1	72.2	134.2

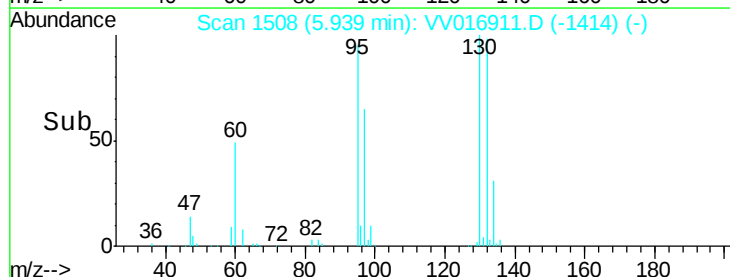
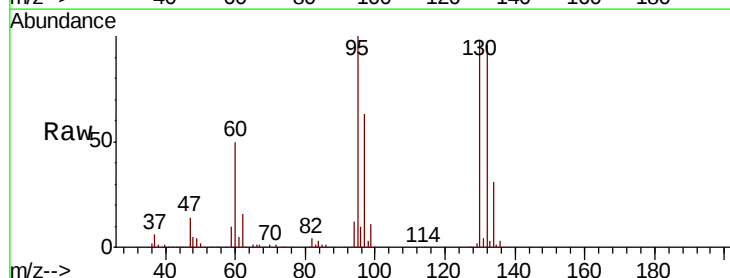
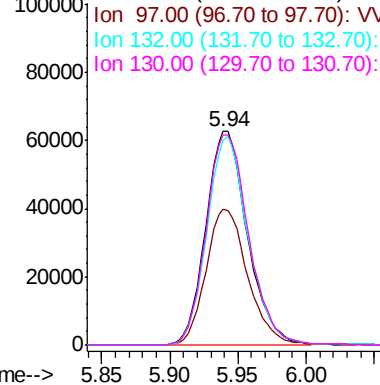
Ion 95.00 (94.70 to 95.70): VV0

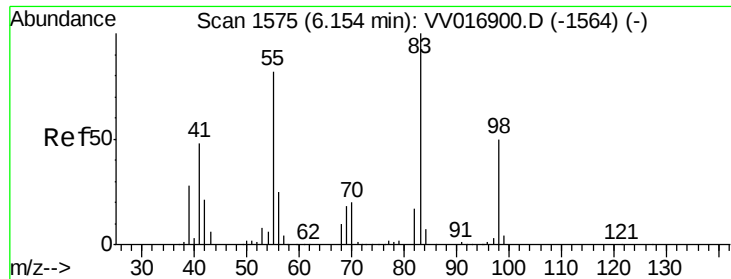
Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0

Abundance Ion 95.00 (94.70 to 95.70): VV0

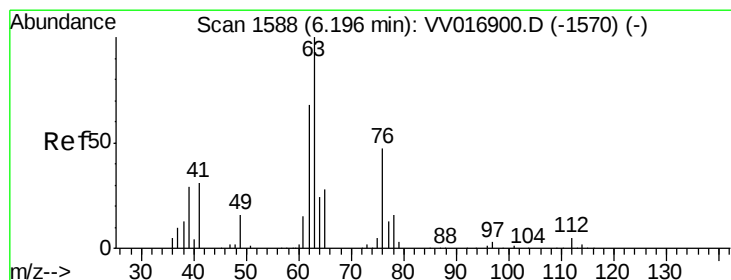
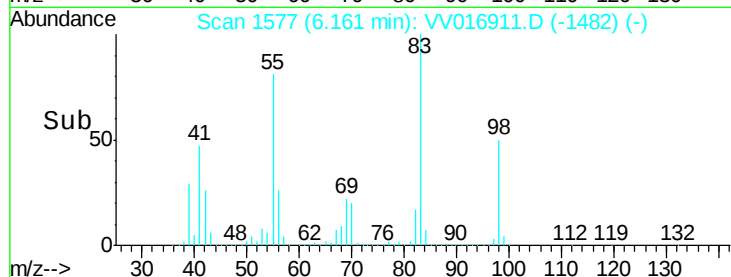
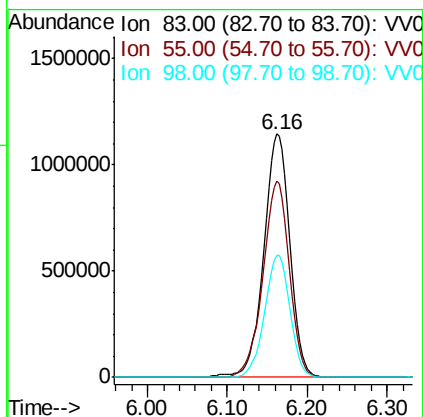
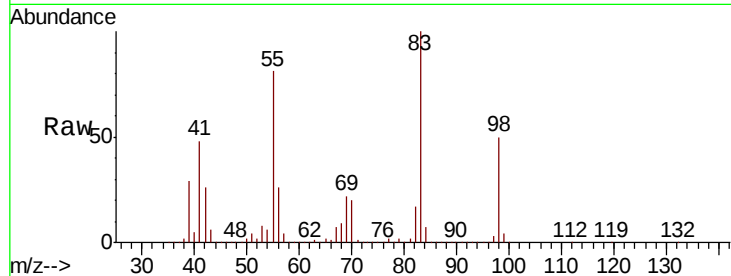




#35
Methvlcvclohexane
Concen: 592.418 ug/L
RT: 6.16 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VV016911.D
Acq: 13 Jun 2020 04:53

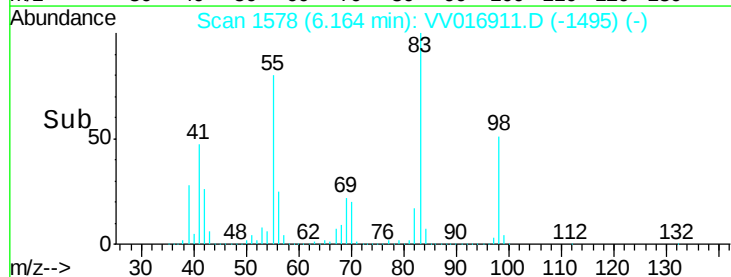
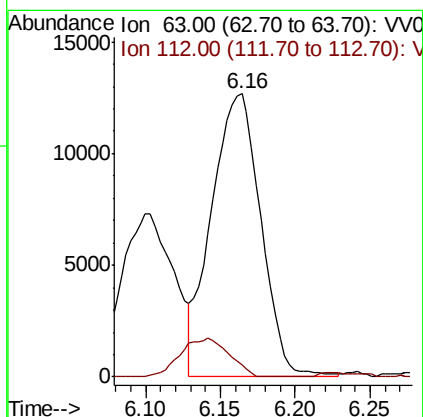
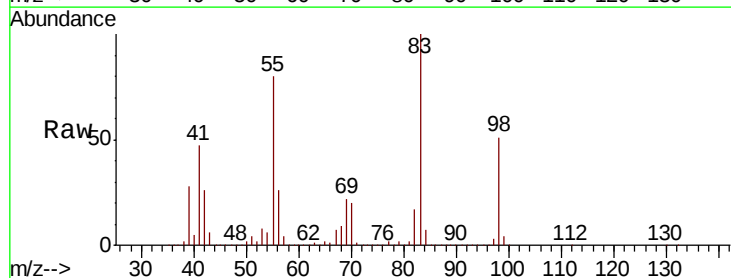
Instrument :
MSVOA_V
ClientSampleId :
E3YG8MS

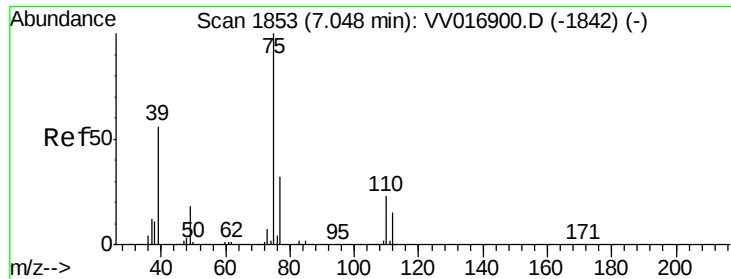
Tot Ion: 83 Resp: 2579740
Ion Ratio Lower Upper
83 100
55 81.5 64.2 96.2
98 48.9 40.3 60.5



#37
1,2-Dichloropropane
Concen: 10.822 ug/L
RT: 6.16 min Scan# 1578
Delta R.T. -0.03 min
Lab File: VV016911.D
Acq: 13 Jun 2020 04:53

Tgt Ion: 63 Resp: 29128
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#





#39

cis-1,3-Dichloropropene

Concen: 1.372 ug/L

RT: 7.02 min Scan# 1844

Delta R.T. -0.03 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

MSVOA_V

ClientSampleId :

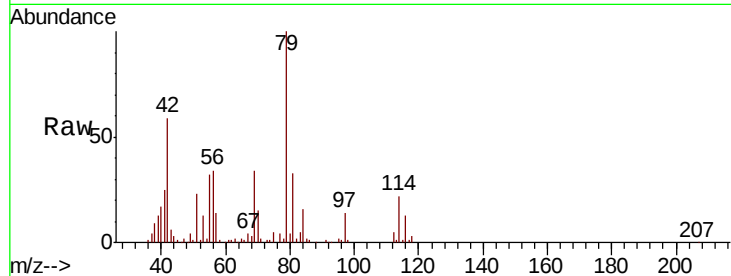
E3YG8MS

Tot Ion: 75 Resp: 5737

Ion Ratio Lower Upper

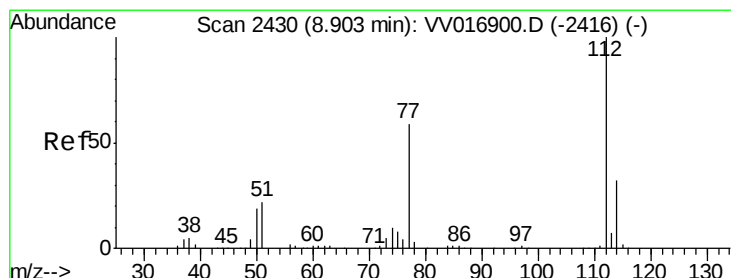
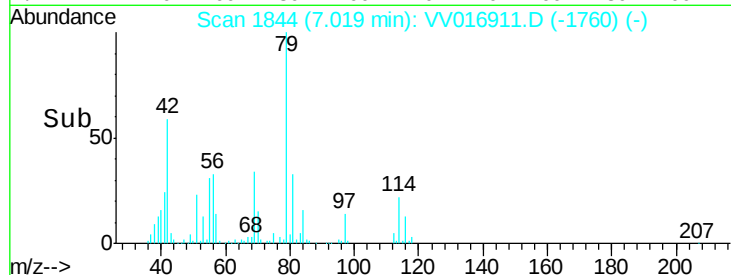
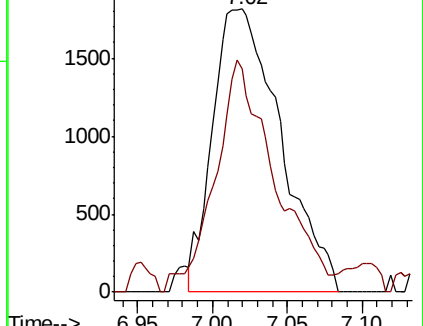
75 100

77 78.7 22.7 42.1#



Abundance Ion 75.00 (74.70 to 75.70): VV016911.D (-1760) (-)

Ion 77.00 (76.70 to 77.70): VV016911.D (-1760) (-)



#51

Chlorobenzene

Concen: 49.704 ug/L

RT: 8.91 min Scan# 2433

Delta R.T. 0.01 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

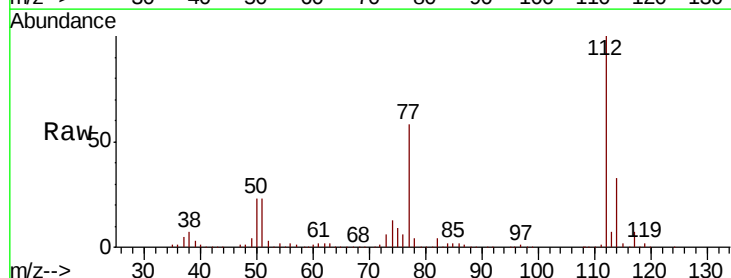
Tgt Ion: 112 Resp: 353808

Ion Ratio Lower Upper

112 100

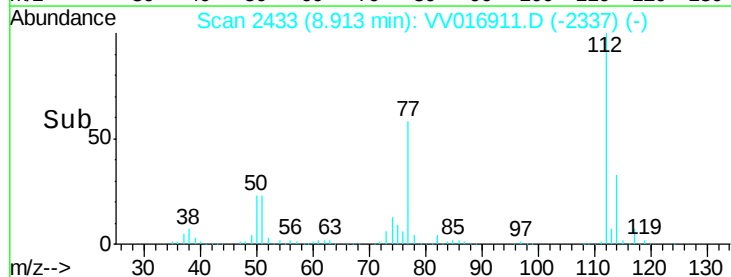
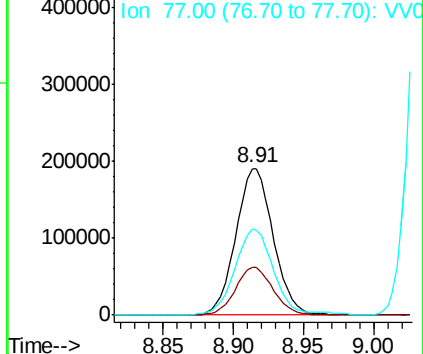
114 32.9 22.3 41.3

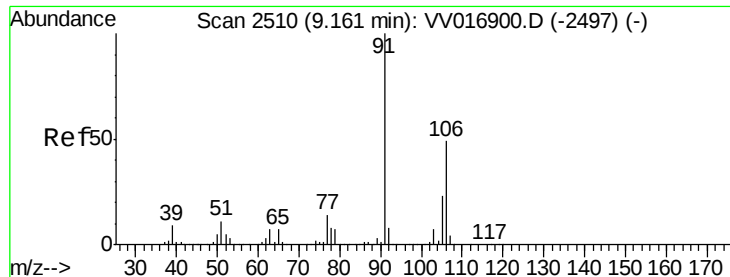
77 58.3 47.9 71.9



Abundance Ion 112.00 (111.70 to 112.70): VV016911.D (-2337) (-)

Ion 114.00 (113.70 to 114.70): VV016911.D (-2337) (-)





#53

m,p-Xylene

Concen: 4512.557 ug/L

RT: 9.06 min Scan# 2480

Delta R.T. -0.10 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

MSVOA_V

ClientSampleId :

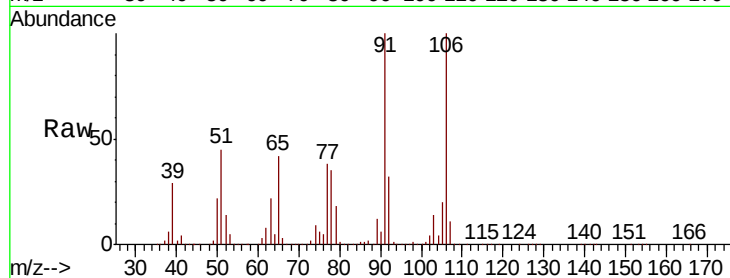
E3YG8MS

Tot Ion:106 Resp:20304737

Ion Ratio Lower Upper

106 100

91 100.0 144.6 268.6#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

8000000

6000000

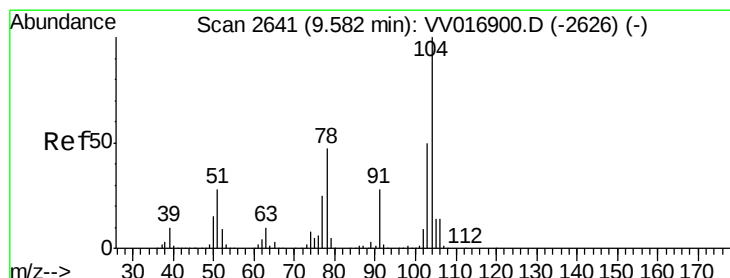
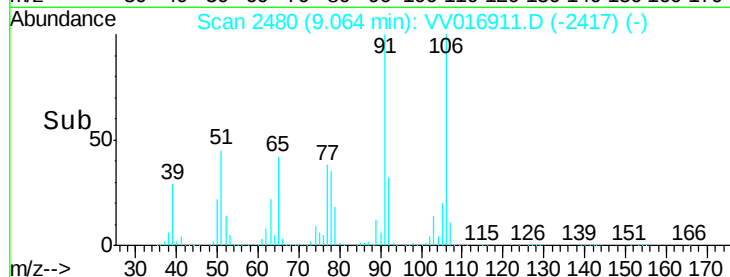
4000000

2000000

0

9.00 9.10

Time-->



#55

Styrene

Concen: 140.780 ug/L

RT: 9.59 min Scan# 2645

Delta R.T. 0.01 min

Lab File: VV016911.D

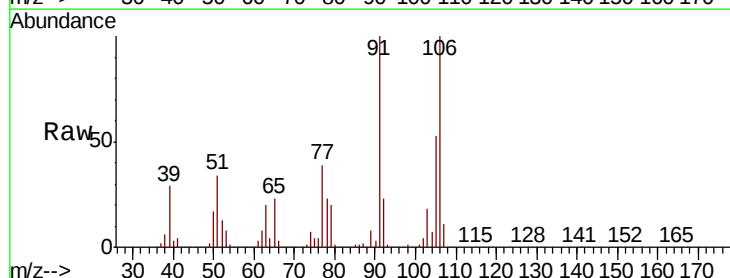
Acq: 13 Jun 2020 04:53

Tgt Ion:104 Resp: 1056259

Ion Ratio Lower Upper

104 100

78 341.0 32.6 60.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

2000000

1500000

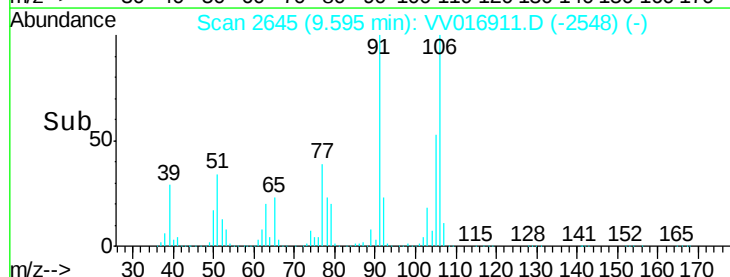
1000000

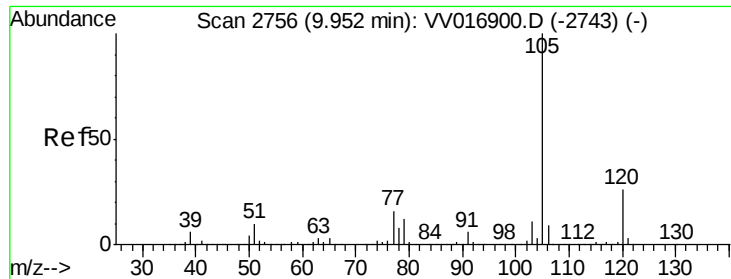
500000

0

9.50 9.55 9.60 9.65

Time-->





#56

Isopropylbenzene

Concen: 95.411 ug/L

RT: 9.96 min Scan# 2758

Delta R.T. 0.01 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Instrument :

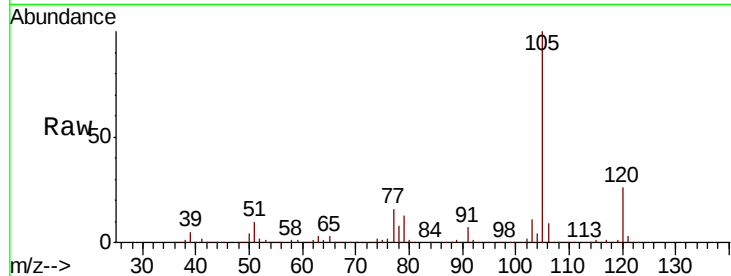
MSVOA_V

ClientSampleId :

E3YG8MS

Tot Ion:105 Resp: 1137689

Ion	Ratio	Lower	Upper
105	100		
120	26.4	21.2	31.8
77	16.4	13.0	19.4

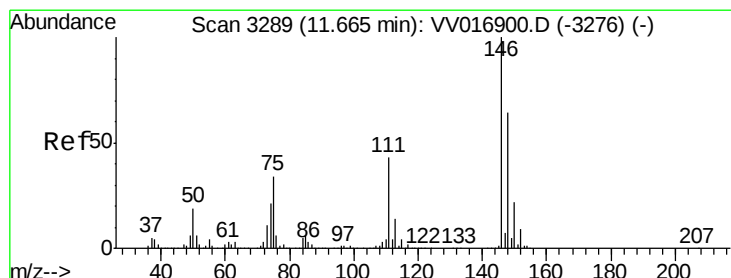
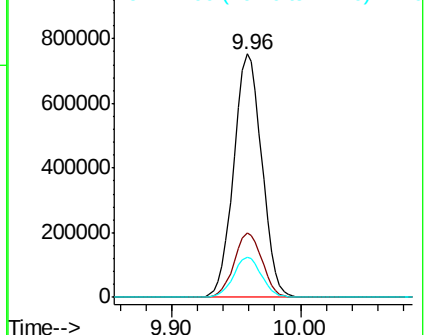
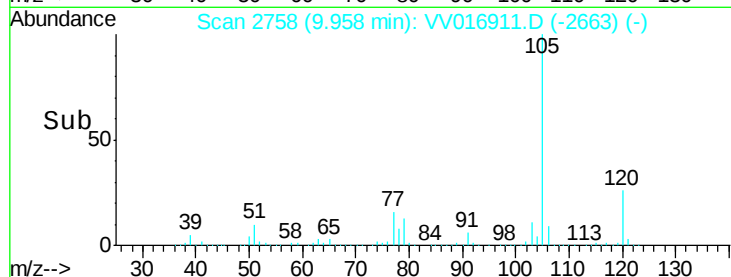


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#65

1,2-Dichlorobenzene

Concen: 4.931 ug/L

RT: 11.67 min Scan# 3290

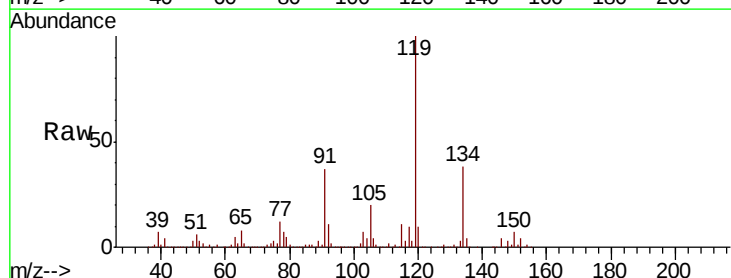
Delta R.T. 0.00 min

Lab File: VV016911.D

Acq: 13 Jun 2020 04:53

Tgt Ion:146 Resp: 29916

Ion	Ratio	Lower	Upper
146	100		
111	44.9	33.7	50.5
148	66.3	50.7	76.1

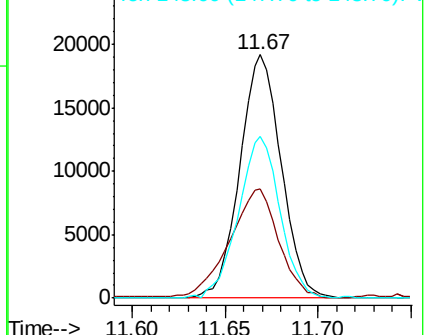
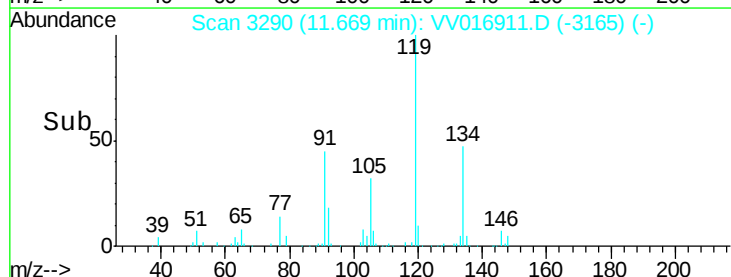


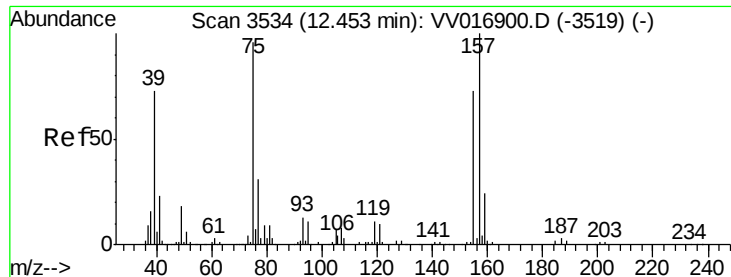
Abundance

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

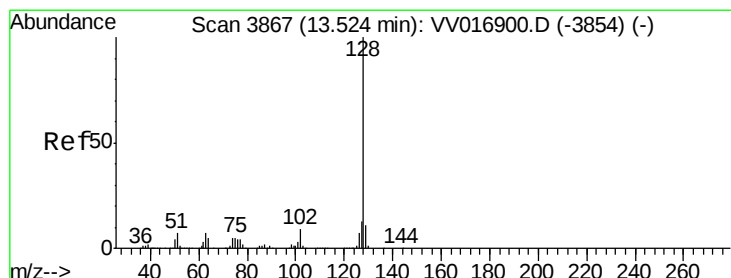
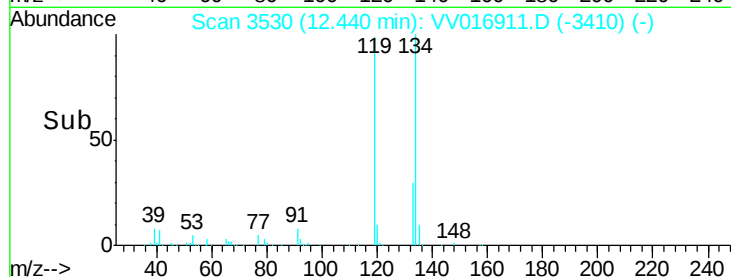
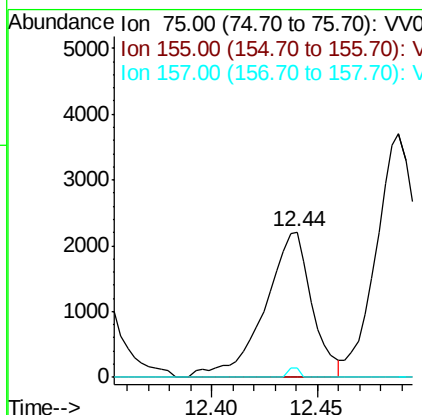
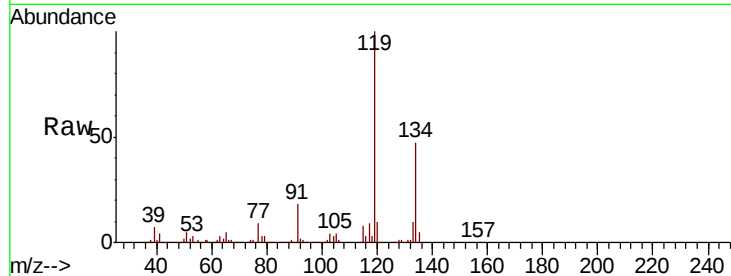




#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.590 ug/L
 RT: 12.44 min Scan# 3530
 Delta R.T. -0.01 min
 Lab File: VV016911.D
 Acq: 13 Jun 2020 04:53

Instrument :
 MSVOA_V
 ClientSampleId :
 E3YG8MS

Tot Ion: 75 Resp: 3425
 Ion Ratio Lower Upper
 75 100
 155 0.0 69.8 104.6#
 157 6.8 83.4 125.2#



#69
 Naphthalene
 Concen: 83.228 ug/L
 RT: 13.52 min Scan# 3867
 Delta R.T. 0.00 min
 Lab File: VV016911.D
 Acq: 13 Jun 2020 04:53

Tgt Ion: 128 Resp: 991410
 Ion Ratio Lower Upper
 128 100
 127 13.3 10.5 15.7
 129 10.9 8.7 13.1

