

Data File : VV010384.D
Acq On : 19 Apr 2019 13:30
Operator : SY/MD
Sample : K2402-09MSD
Misc : 5.06G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
GAHH9MSD

Quant Time: Apr 20 02:31:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM041819S.M
Quant Title : VOC Analysis
QLast Update : Sat Apr 20 02:27:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	408459	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	355363	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	202739	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	61332	11.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	47.28%
7) Chloroethane-d5	1.57	69	52580	12.07	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	48.28%
10) 1,1-Dichloroethene-d2	2.13	63	156203	12.48	ug/L	0.01
Spiked Amount	25.000	Range	45 - 110	Recovery	=	49.92%
20) 2-Butanone-d5	3.94	46	51097	31.63	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	63.26%
24) Chloroform-d	4.40	84	160810	14.98	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	59.92%
26) 1,2-Dichloroethane-d4	5.08	65	104053	16.41	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	65.64%#
29) Benzene-d6	5.10	84	290798	15.99	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	63.96%
33) 1,2-Dichloropropane-d6	6.12	67	90967	17.09	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	68.36%#
37) Toluene-d8	7.36	98	264144	15.11	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	60.44%
38) trans-1,3-Dichloropropene-	7.66	79	37996	14.51	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	58.04%
39) 2-Hexanone-d5	8.13	63	38930	32.84	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	65.68%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	80943	15.20	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	60.80%
61) 1,2-Dichlorobenzene-d4	11.67	152	114584	14.38	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	57.52%#

Target Compounds

						Qvalue
12) 1,1-Dichloroethene	2.14	96	113597	21.408	ug/L	77
13) Acetone	2.19	43	3636	2.133	ug/L	87
16) Methylene chloride	2.53	84	16047	2.460	ug/L	99
34) Benzene	5.15	78	471360	27.182	ug/L	100
35) Trichloroethene	5.96	95	126564	24.669	ug/L	97
36) Methylcyclohexane	6.18	83	10202	1.366	ug/L #	85
44) Toluene	7.43	91	517931	26.493	ug/L	99
52) Chlorobenzene	8.92	112	336664	24.750	ug/L	96
53) Ethylbenzene	9.05	91	128505	5.786	ug/L	98
54) m,p-Xylene	9.18	106	1172396	136.363	ug/L	99
55) o-xylene	9.59	106	548420	66.140	ug/L	99
56) Styrene	9.60	104	263980	18.644	ug/L	81
57) Isopropylbenzene	9.97	105	150351	6.805	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.46	75	16819	17.629	ug/L #	1
69) Naphthalene	13.49	128	24751	1.631	ug/L #	1

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV041819\
Quantitation Report (Not Reviewed)

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Quant Title : VOC Analysis
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Response via : Initial Calibration

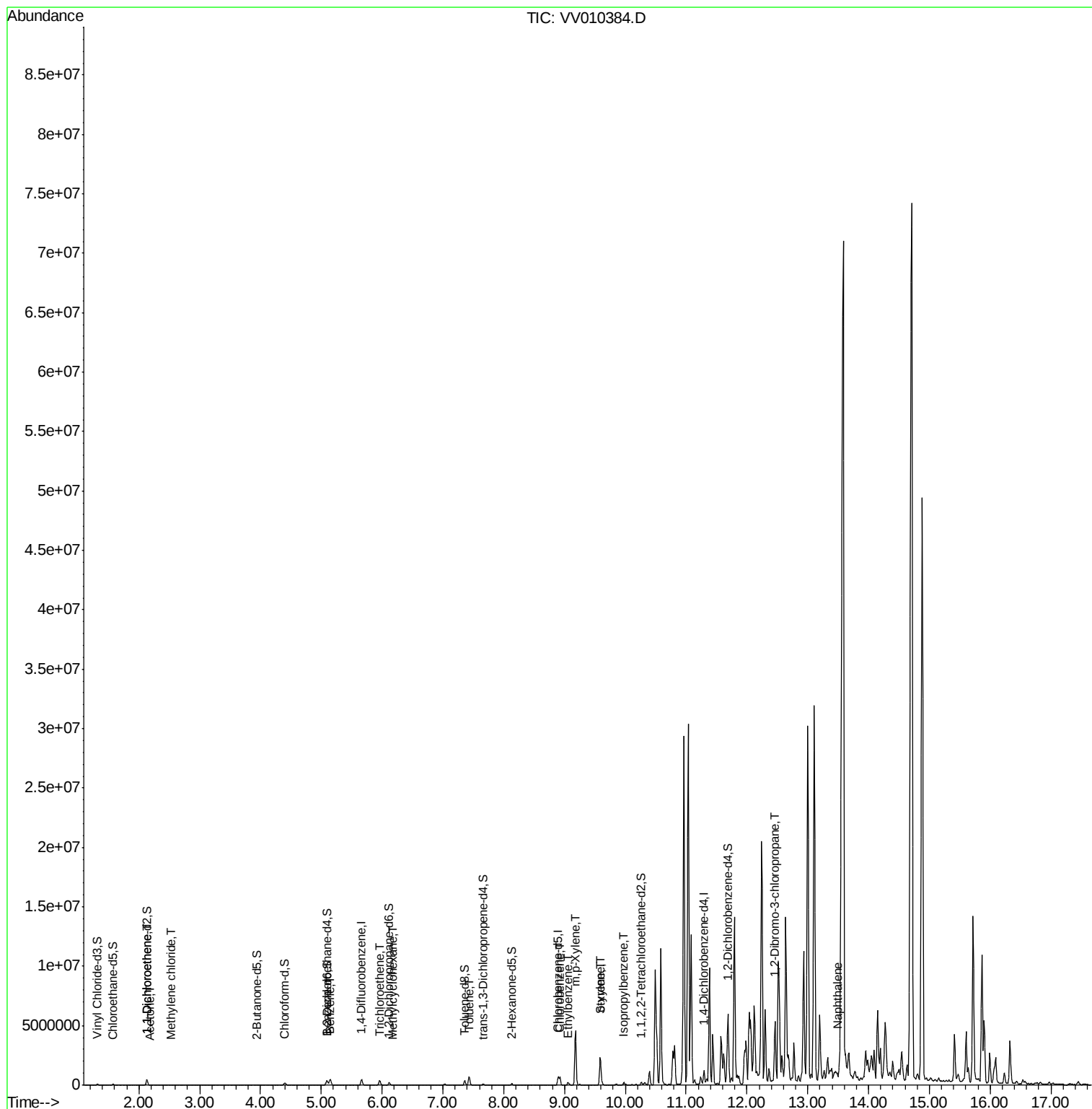
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

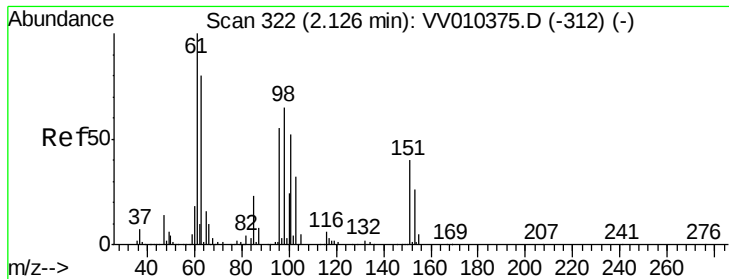
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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Response via : Initial Calibration





#12

1,1-Dichloroethene

Concen: 21.408 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.01 min

Lab File: VV010384.D

Acq: 19 Apr 2019 13:30

Instrument :

MSVOA_V

ClientSampleId :

GAHH9MSD

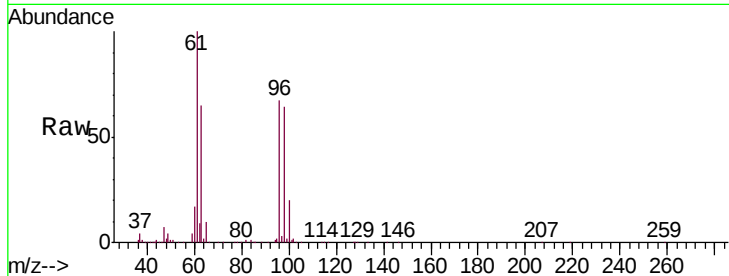
Tgt Ion: 96 Resp: 113597

Ion Ratio Lower Upper

96 100

61 149.0 124.7 231.5

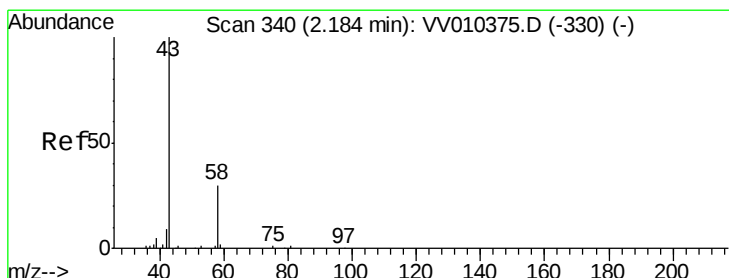
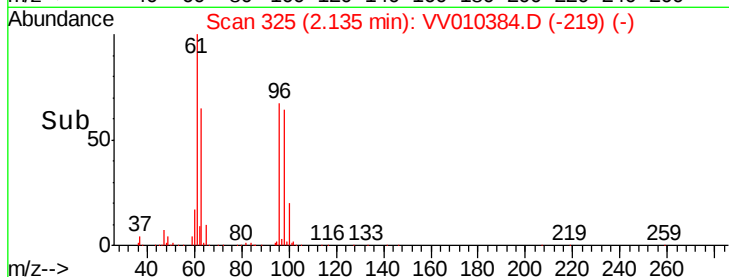
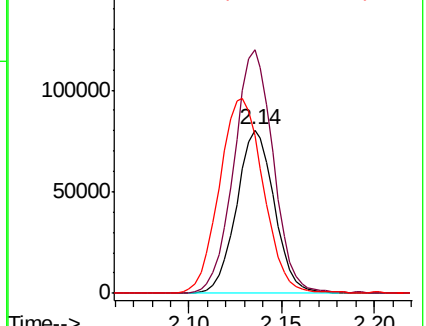
63 96.4 88.7 164.7



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: 2.133 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV010384.D

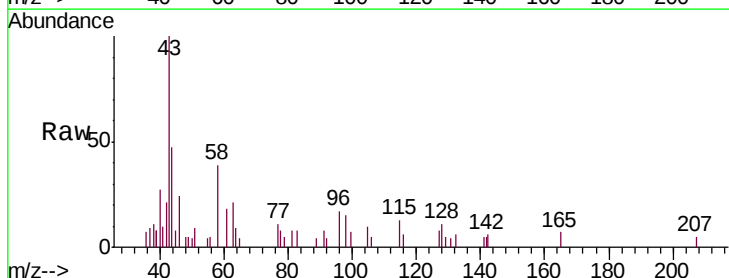
Acq: 19 Apr 2019 13:30

Tgt Ion: 43 Resp: 3636

Ion Ratio Lower Upper

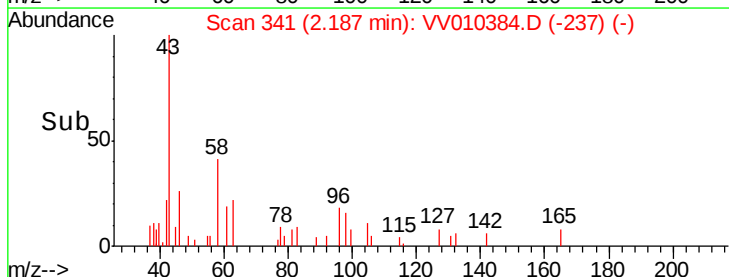
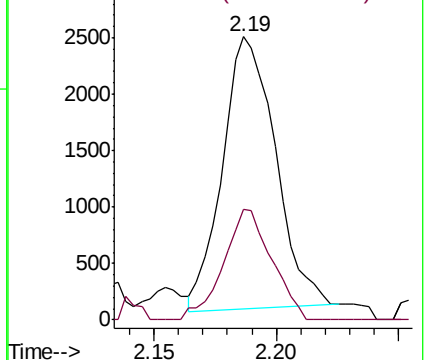
43 100

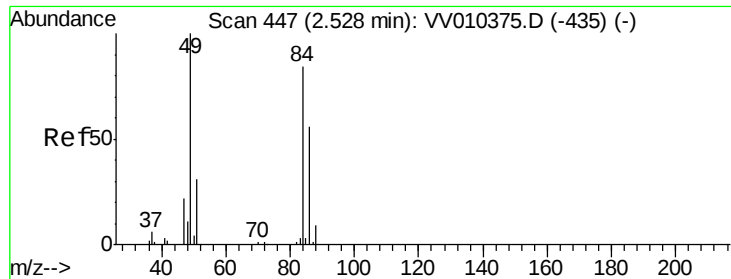
58 37.0 0.0 60.0



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

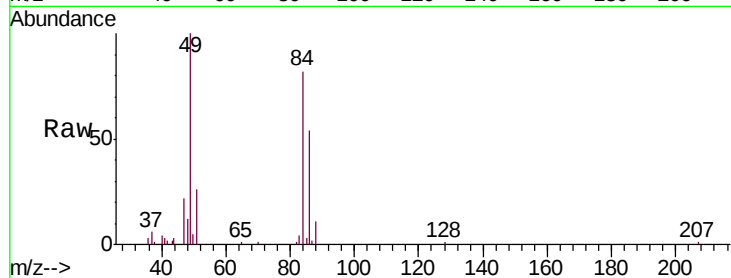




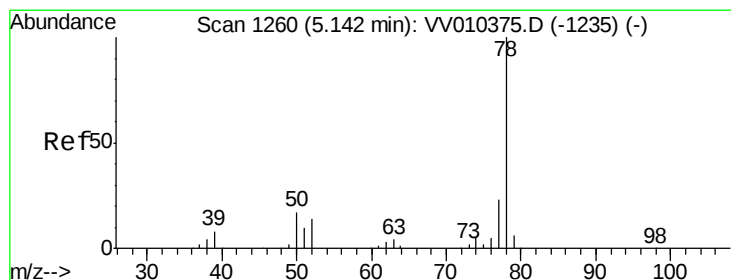
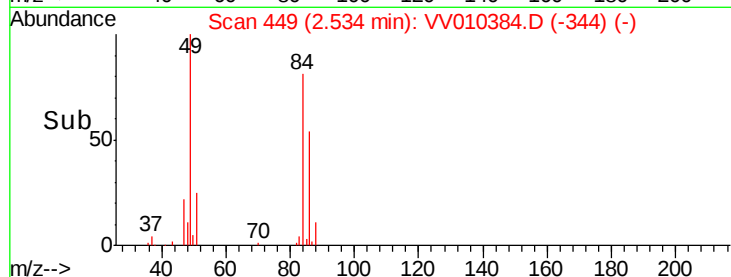
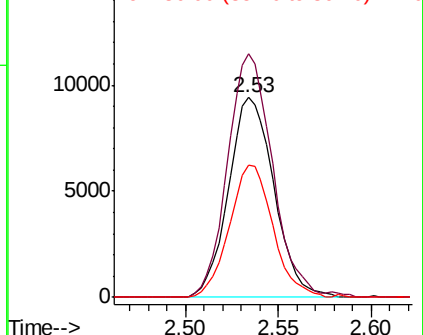
#16
Methylene chloride
Concen: 2.460 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.01 min
Lab File: VV010384.D
Acq: 19 Apr 2019 13:30

Instrument :
MSVOA_V
ClientSampleId :
GAHH9MSD

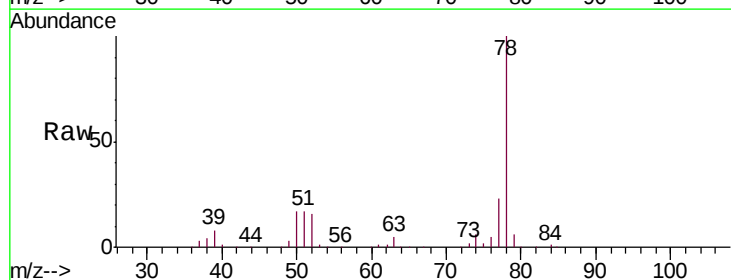
Tgt Ion: 84 Resp: 16047
Ion Ratio Lower Upper
84 100
49 122.0 83.8 155.6
86 66.0 46.1 85.5



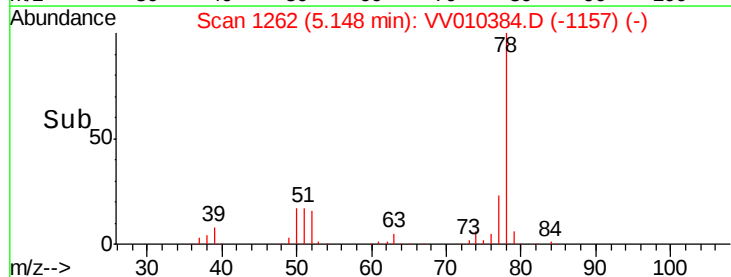
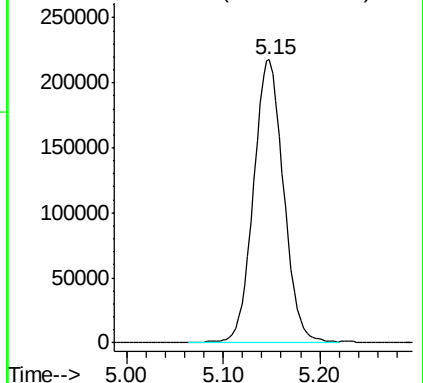
Abundance Ion 84.00 (83.70 to 84.70): VV0
Ion 49.00 (48.70 to 49.70): VV0
Ion 86.00 (85.70 to 86.70): VV0

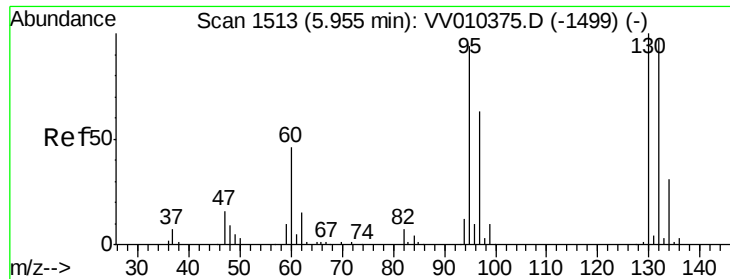


#34
Benzene
Concen: 27.182 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VV010384.D
Acq: 19 Apr 2019 13:30
Tgt Ion: 78 Resp: 471360



Abundance Ion 78.00 (77.70 to 78.70): VV0

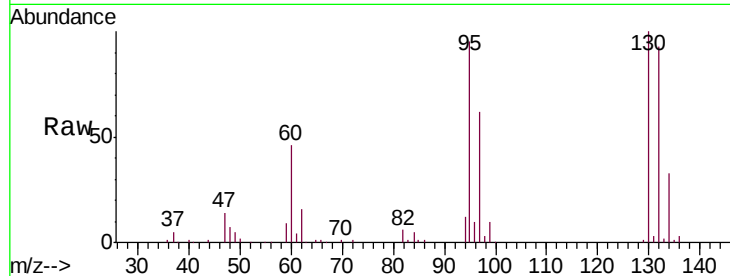




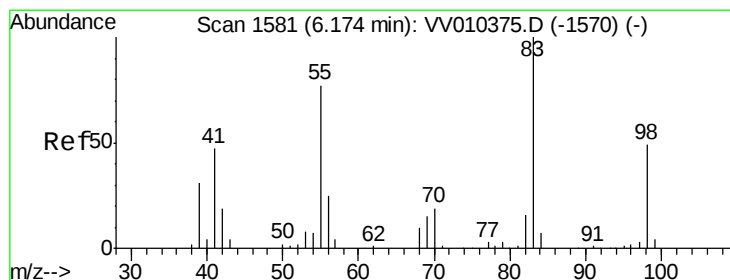
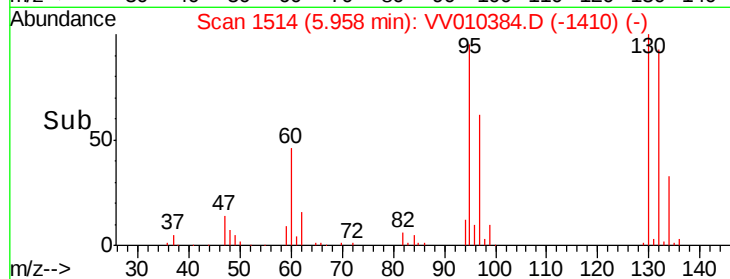
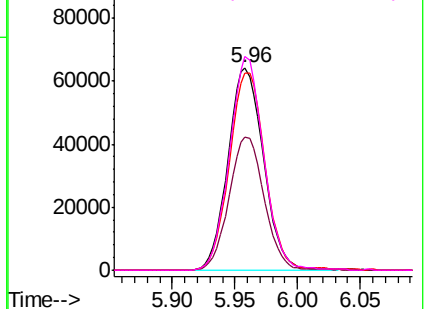
#35
 Trichloroethene
 Concen: 24.669 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV010384.D
 Acq: 19 Apr 2019 13:30

Instrument :
 MSVOA_V
 ClientSampleId :
 GAHH9MSD

Tgt Ion: 95 Resp: 126564
 Ion Ratio Lower Upper
 95 100
 97 64.8 45.6 84.8
 132 97.5 71.5 132.7
 130 101.5 74.0 137.4

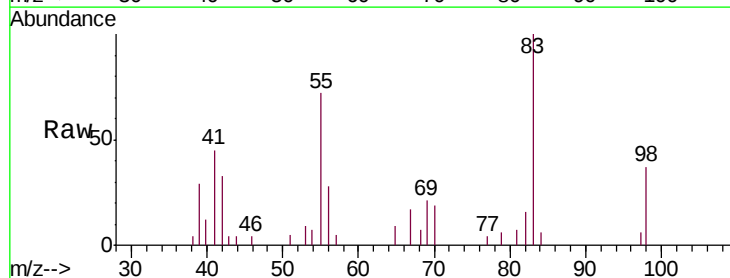


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

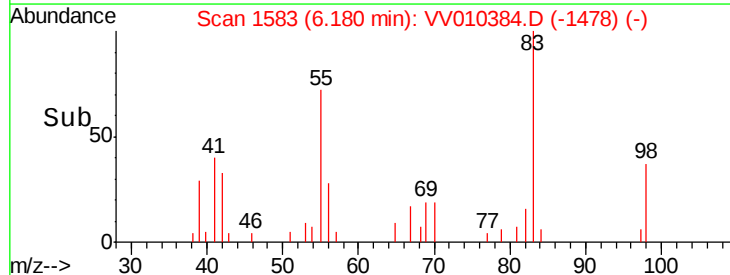
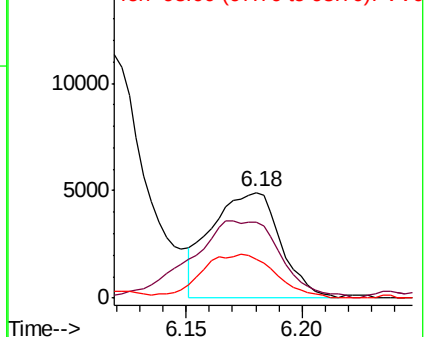


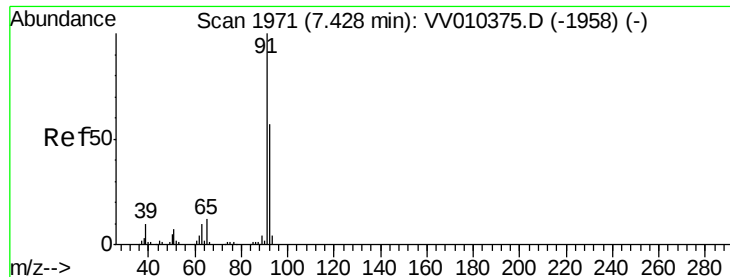
#36
 Methylcyclohexane
 Concen: 1.366 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. 0.01 min
 Lab File: VV010384.D
 Acq: 19 Apr 2019 13:30

Tgt Ion: 83 Resp: 10202
 Ion Ratio Lower Upper
 83 100
 55 51.2 55.9 83.9#
 98 44.6 37.3 55.9



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





#44

Toluene

Concen: 26.493 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV010384.D

Acq: 19 Apr 2019 13:30

Instrument :

MSVOA_V

ClientSampleId :

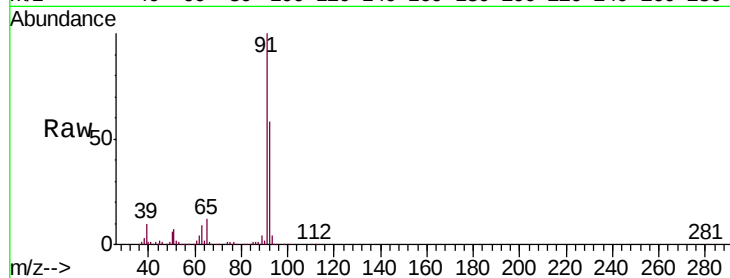
GAHH9MSD

Tgt Ion: 91 Resp: 517931

Ion Ratio Lower Upper

91 100

92 58.1 40.1 74.5



Abundance Ion 91.00 (90.70 to 91.70): VV010375.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV010375.D (-1958) (-)

7.43

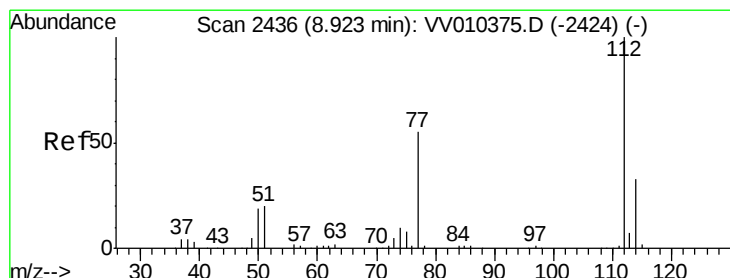
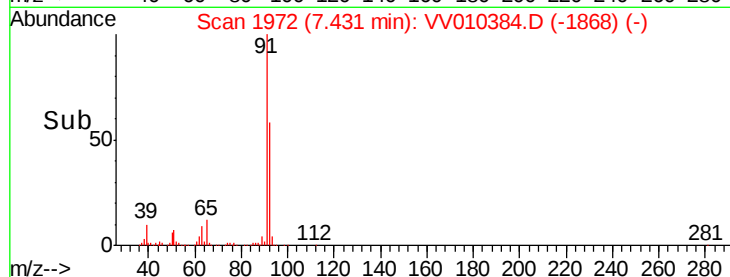
300000

200000

100000

0

Time-->



#52

Chlorobenzene

Concen: 24.750 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV010384.D

Acq: 19 Apr 2019 13:30

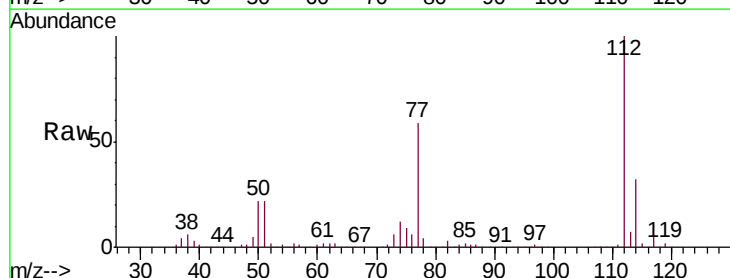
Tgt Ion: 112 Resp: 336664

Ion Ratio Lower Upper

112 100

77 58.6 43.0 64.4

114 32.1 22.5 41.9



Abundance Ion 112.00 (111.70 to 112.70): VV010375.D (-2424) (-)

Ion 77.00 (76.70 to 77.70): VV010375.D (-2424) (-)

Ion 114.00 (113.70 to 114.70): VV010375.D (-2424) (-)

8.92

250000

200000

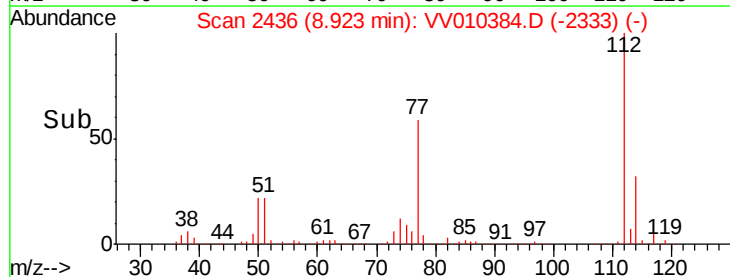
150000

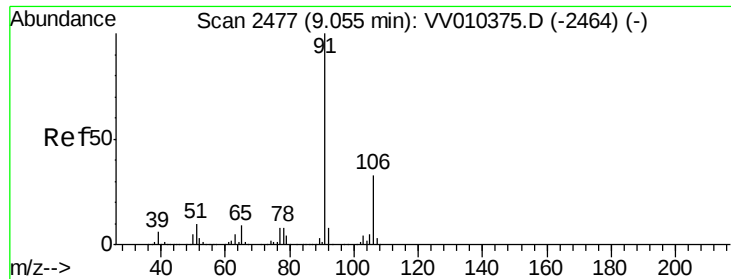
100000

50000

0

Time-->





#53

Ethylbenzene

Concen: 5.786 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010384.D

Acq: 19 Apr 2019 13:30

Instrument :

MSVOA_V

ClientSampleId :

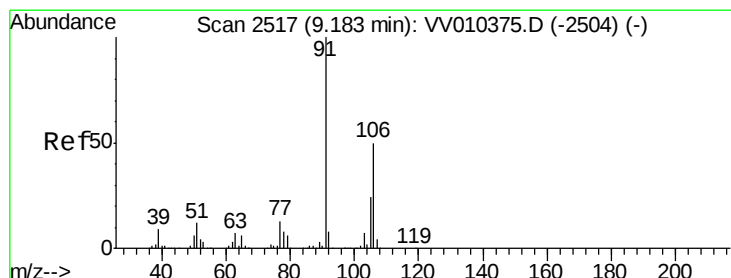
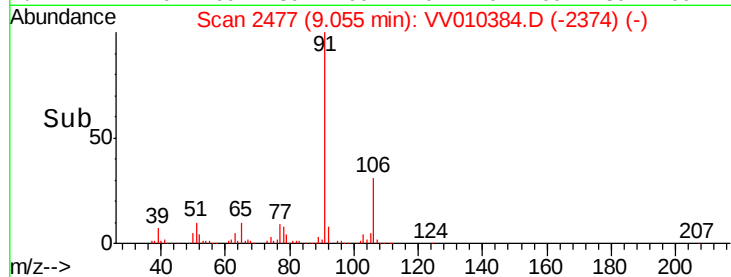
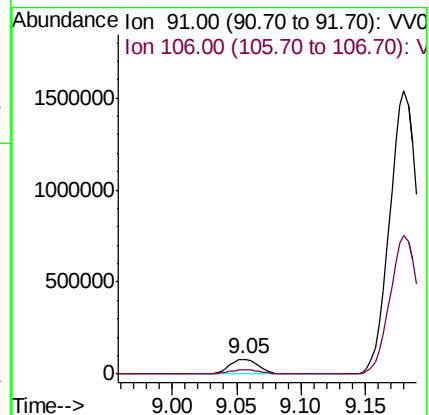
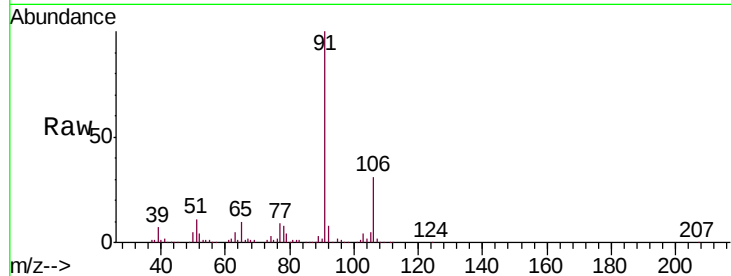
GAHH9MSD

Tgt Ion: 91 Resp: 128505

Ion Ratio Lower Upper

91 100

106 31.0 22.5 41.9



#54

m,p-Xylene

Concen: 136.363 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV010384.D

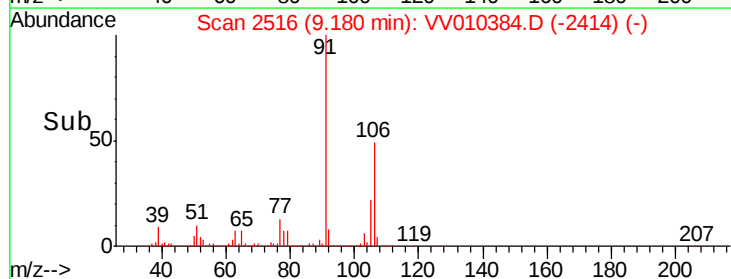
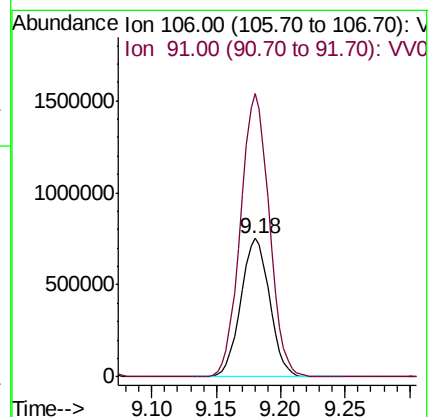
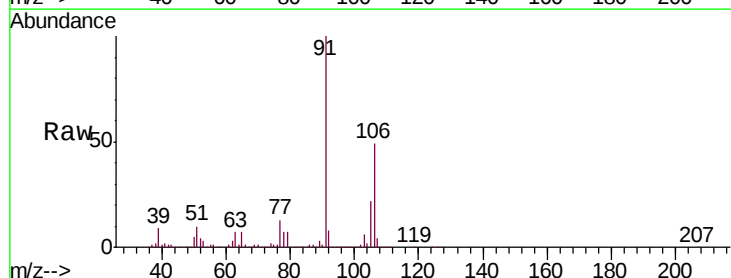
Acq: 19 Apr 2019 13:30

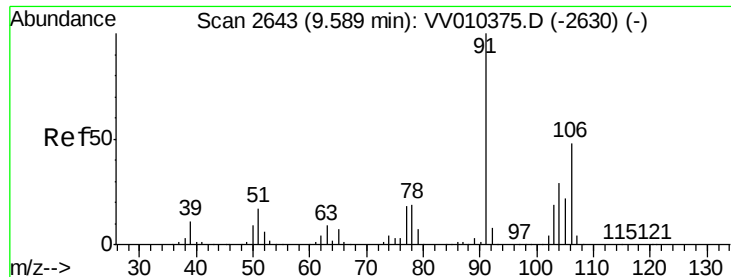
Tgt Ion: 106 Resp: 1172396

Ion Ratio Lower Upper

106 100

91 204.3 141.6 263.0





#55

o-xylene

Concen: 66.140 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV010384.D

Acq: 19 Apr 2019 13:30

Instrument :

MSVOA_V

ClientSampleId :

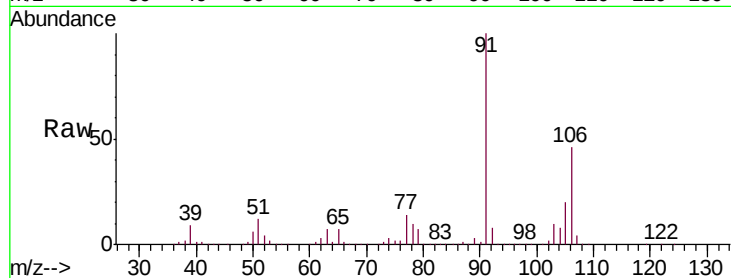
GAHH9MSD

Tgt Ion:106 Resp: 548420

Ion Ratio Lower Upper

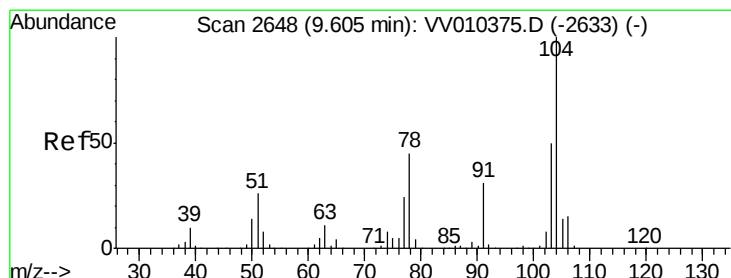
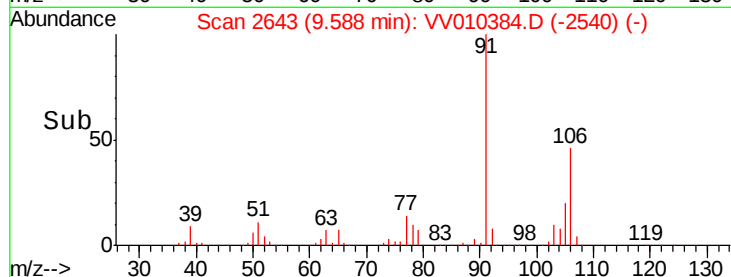
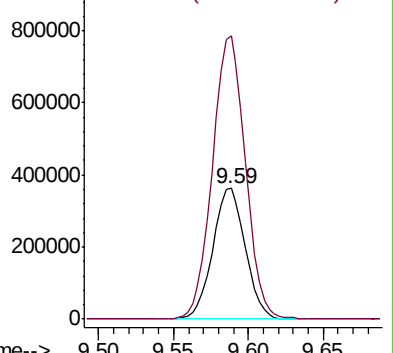
106 100

91 216.3 150.1 278.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 18.644 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV010384.D

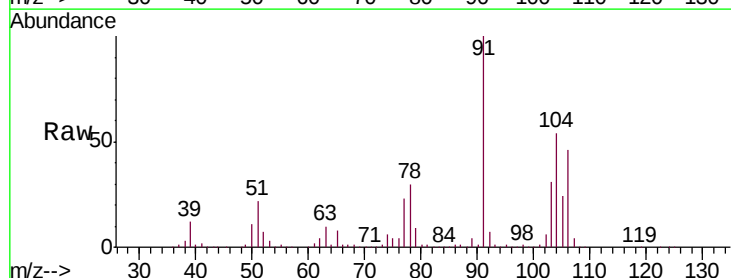
Acq: 19 Apr 2019 13:30

Tgt Ion:104 Resp: 263980

Ion Ratio Lower Upper

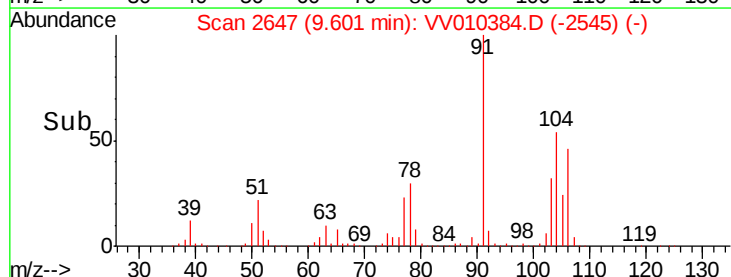
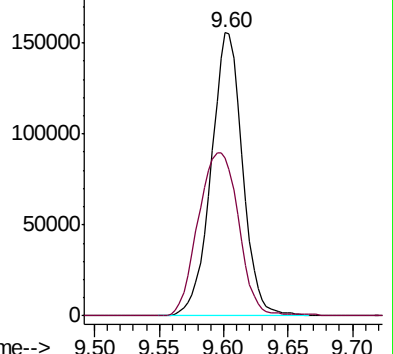
104 100

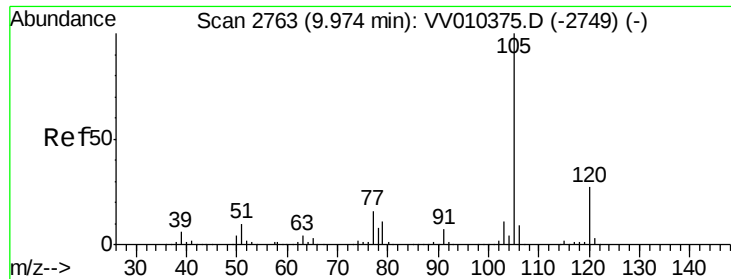
78 56.0 30.7 56.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 6.805 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010384.D

Acq: 19 Apr 2019 13:30

Instrument :

MSVOA_V

ClientSampleId :

GAHH9MSD

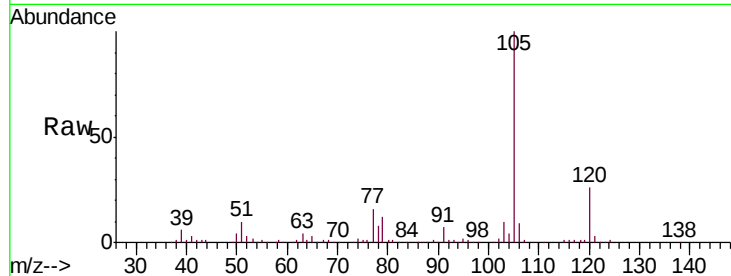
Tgt Ion:105 Resp: 150351

Ion Ratio Lower Upper

105 100

120 26.1 21.9 32.9

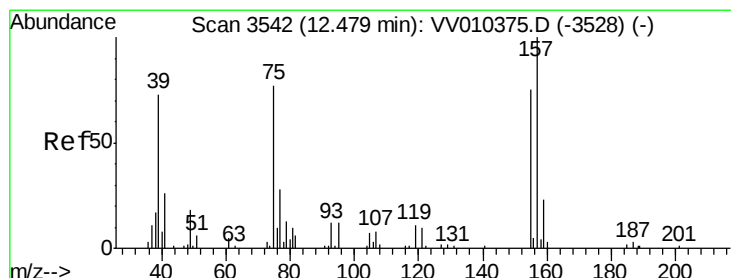
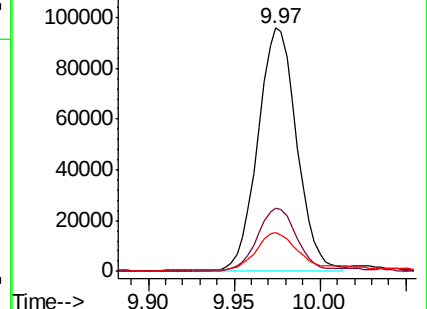
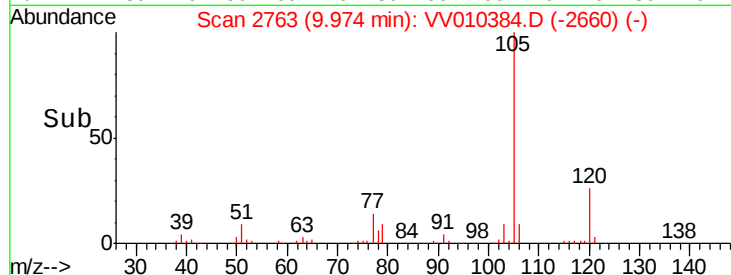
77 16.0 13.0 19.6



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



#66

1,2-Dibromo-3-chloropropane

Concen: 17.629 ug/L

RT: 12.46 min Scan# 3536

Delta R.T. -0.02 min

Lab File: VV010384.D

Acq: 19 Apr 2019 13:30

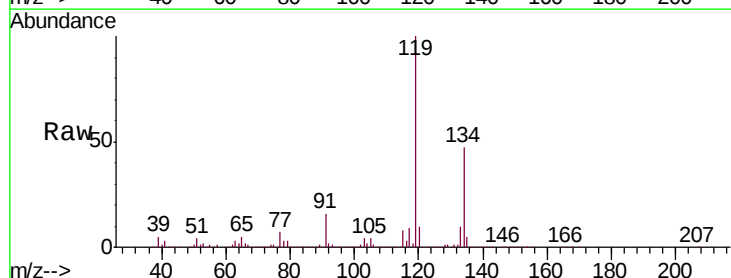
Tgt Ion: 75 Resp: 16819

Ion Ratio Lower Upper

75 100

157 0.0 100.6 151.0#

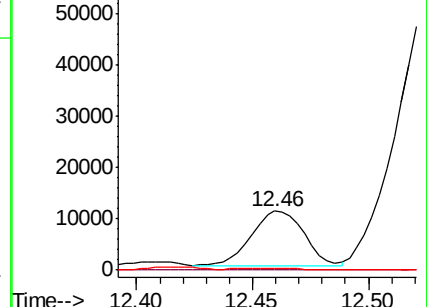
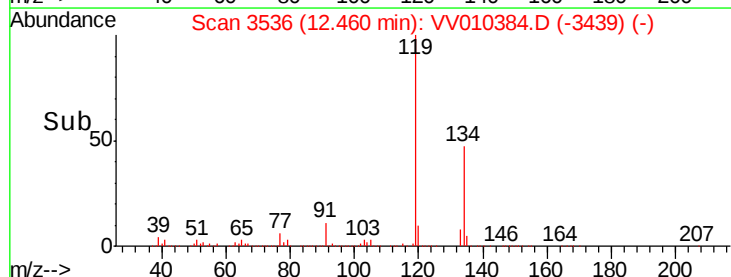
155 3.4 75.1 112.7#

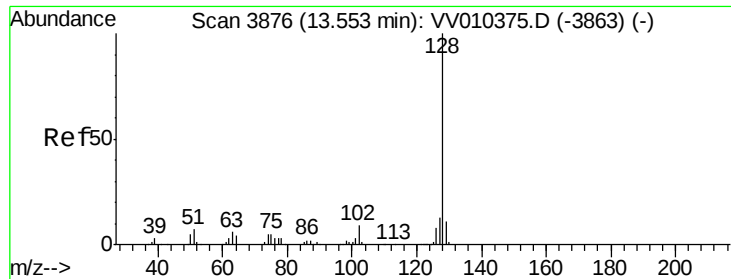


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V





#69

Naphthalene

Concen: 1.631 ug/L

RT: 13.49 min Scan# 3855

Delta R.T. -0.07 min

Lab File: VV010384.D

Acq: 19 Apr 2019 13:30

Instrument :

MSVOA_V

ClientSampleId :

GAHH9MSD

Tgt Ion:128 Resp: 24751

Ion Ratio Lower Upper

128 100

129 75.4 8.7 13.1#

127 33.7 10.7 16.1#

