

Data File : VV012311.D
Acq On : 20 Aug 2019 14:39
Operator : SY/MD
Sample : K4373-19DL 10X
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0AF8DL

Quant Time: Aug 21 01:17:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR081919WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Aug 21 01:13:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	116251	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	107604	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	63102	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	25304	4.26	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.20%
7) Chloroethane-d5	1.58	69	22044	5.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	101.60%
11) 1,1-Dichloroethene-d2	2.13	63	45093	4.00	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.00%
20) 2-Butanone-d5	3.94	46	21082	13.16	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	26.32%#
24) Chloroform-d	4.40	84	79779	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
26) 1,2-Dichloroethane-d4	5.08	65	47327	5.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.40%
32) Benzene-d6	5.10	84	174916	6.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	123.00%
36) 1,2-Dichloropropane-d6	6.12	67	46444	5.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	115.40%
41) Toluene-d8	7.36	98	171234	6.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	129.20%
43) trans-1,3-Dichloropropene-	7.66	79	20244	5.86	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	117.20%
46) 2-Hexanone-d5	8.13	63	68208	62.53	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	125.06%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	34405	5.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	112.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	74886	5.90	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	118.00%

Target Compounds

					Qvalue
6) Bromomethane	1.53	94	623	0.158 ug/L #	68
8) Chloroethane	1.62	64	508	0.133 ug/L #	41
13) Acetone	2.19	43	1063	1.269 ug/L	88
14) Carbon disulfide	2.32	76	1506	0.102 ug/L	95
16) Methylene chloride	2.54	84	807	0.145 ug/L	93
21) 2-Butanone	4.00	43	15635	9.836 ug/L #	62
25) Chloroform	4.42	83	12248	0.731 ug/L	100
27) 1,2-Dichloroethane	5.15	62	2990	0.313 ug/L #	74
33) Benzene	5.14	78	287130	9.647 ug/L	100
35) Methylcyclohexane	6.12	83	13147	1.006 ug/L #	20
37) 1,2-Dichloropropane	6.11	63	5661	0.813 ug/L #	81
39) cis-1,3-Dichloropropene	7.03	75	1526	0.138 ug/L #	75
42) Toluene	7.43	91	356532	10.822 ug/L	100
44) trans-1,3-Dichloropropene	7.67	75	926	0.105 ug/L #	78
45) 1,1,2-Trichloroethane	7.74	97	1946	0.364 ug/L #	17
48) 2-Hexanone	8.13	43	9331	3.545 ug/L #	80
52) Ethylbenzene	9.05	91	579230	15.714 ug/L	98

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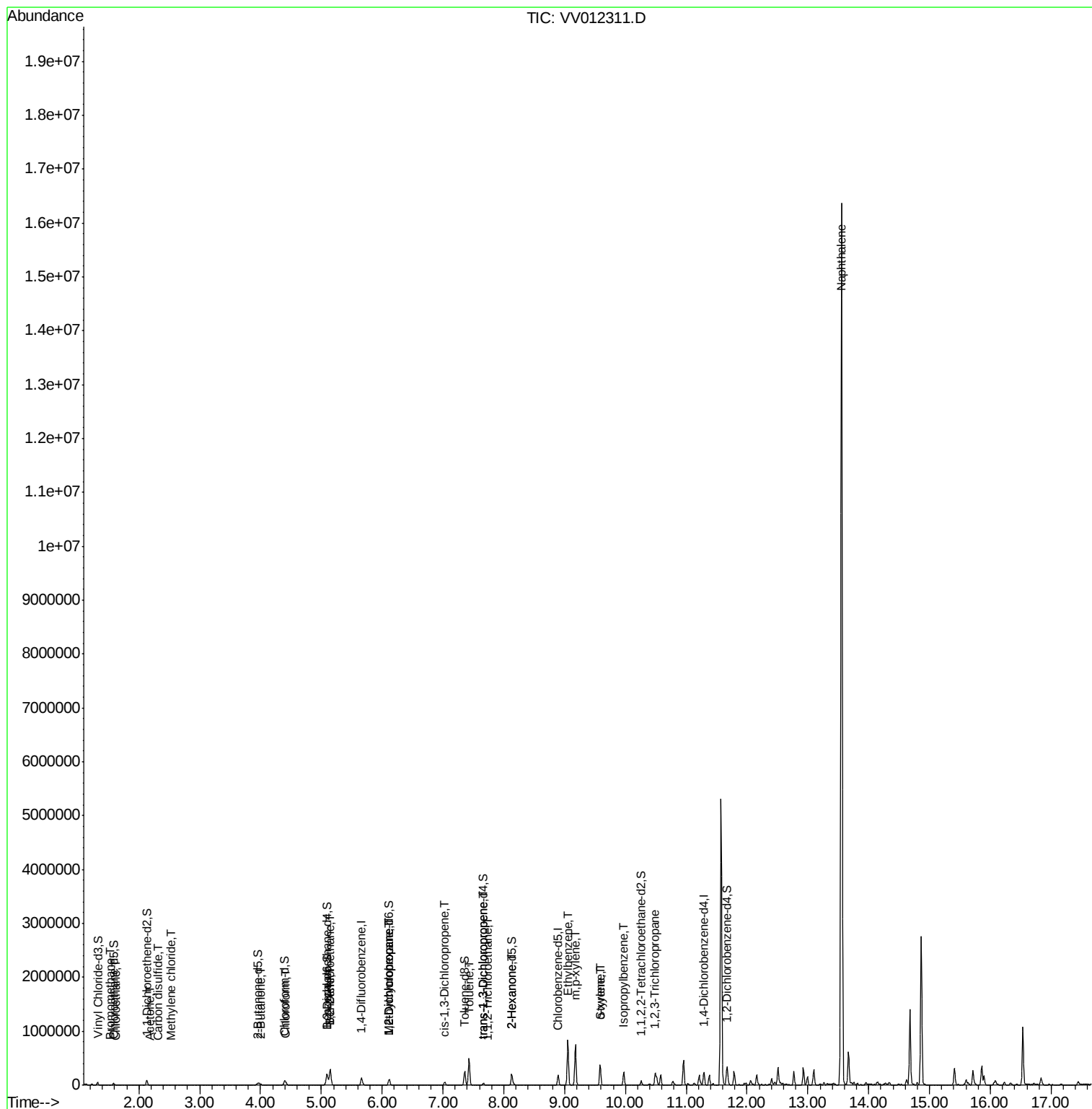
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-xylene	9.18	106	210538	14.631	ug/L	95
54) o-xylene	9.59	106	103994	7.514	ug/L	99
55) Styrene	9.59	104	9690	0.415	ug/L #	1
56) Isopropylbenzene	9.97	105	153636	4.022	ug/L	99
59) 1,2,3-Trichloropropane	10.49	75	1773	0.411	ug/L #	1
69) Naphthalene	13.55	128	12771493	724.830	ug/L	96

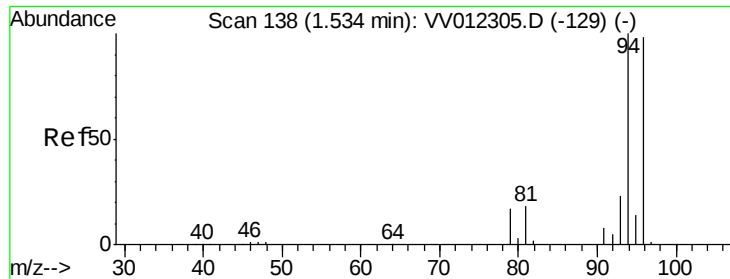
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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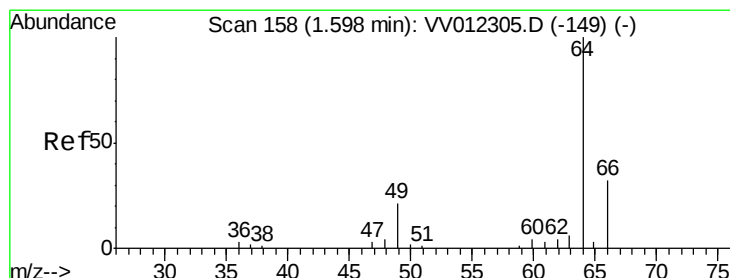
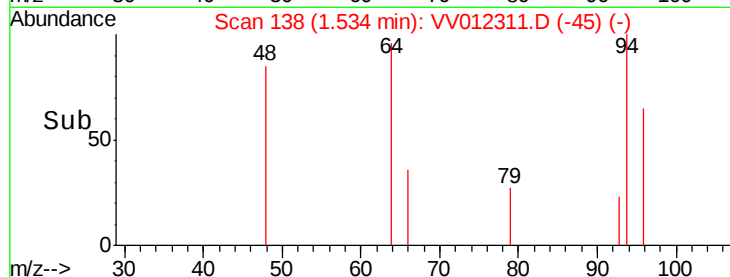
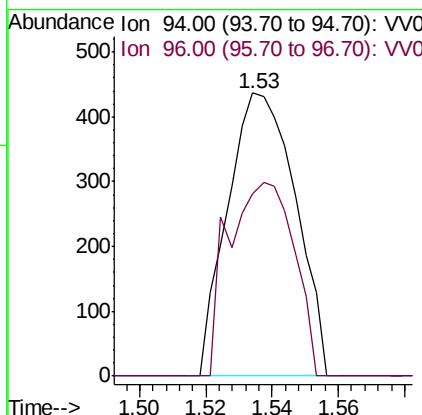
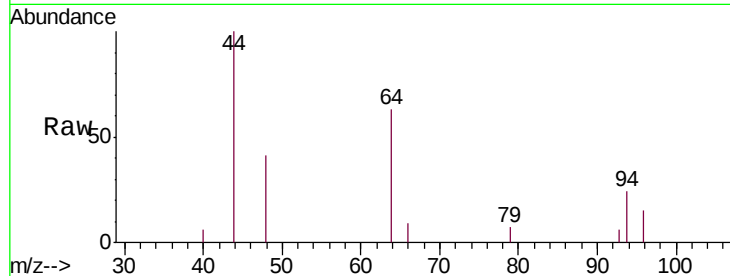




#6
 Bromomethane
 Concen: 0.158 ug/L
 RT: 1.53 min Scan# 138
 Delta R.T. 0.00 min
 Lab File: VV012311.D
 Acq: 20 Aug 2019 14:39

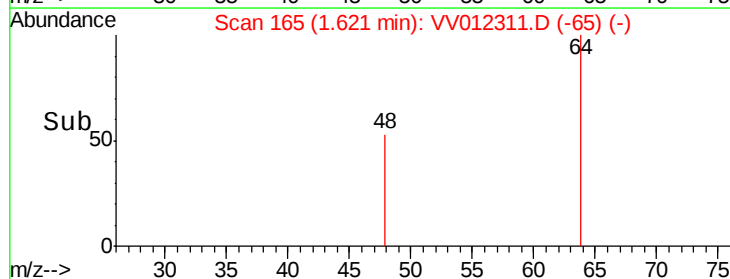
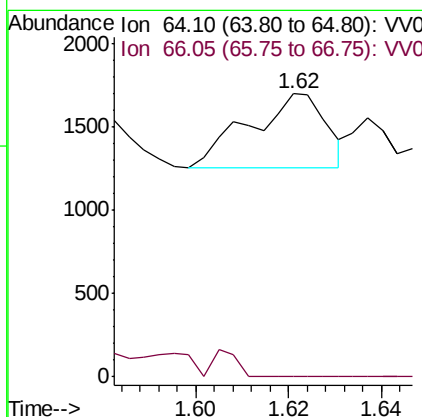
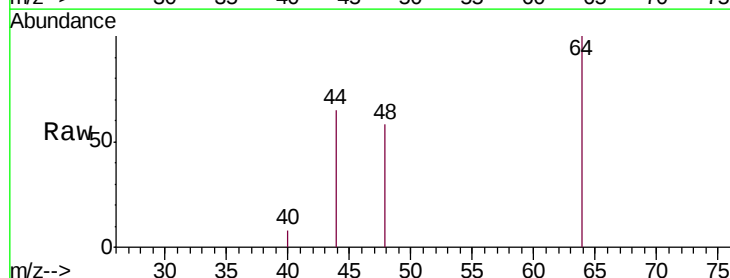
Instrument :
 MSVOA_V
 ClientSampleId :
 C0AF8DL

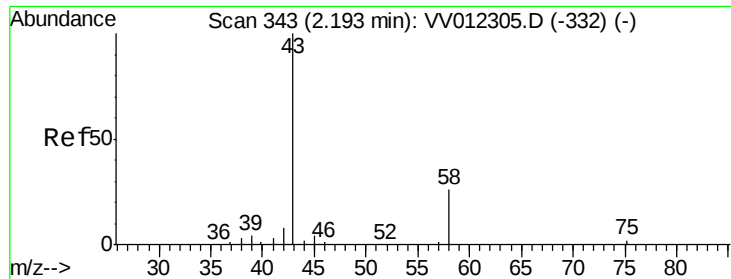
Tgt Ion: 94 Resp: 623
 Ion Ratio Lower Upper
 94 100
 96 64.5 67.3 125.1#



#8
 Chloroethane
 Concen: 0.133 ug/L
 RT: 1.62 min Scan# 165
 Delta R.T. 0.02 min
 Lab File: VV012311.D
 Acq: 20 Aug 2019 14:39

Tgt Ion: 64 Resp: 508
 Ion Ratio Lower Upper
 64 100
 66 0.0 23.7 44.1#





#13

Acetone

Concen: 1.269 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.01 min

Lab File: VV012311.D

Acq: 20 Aug 2019 14:39

Instrument :

MSVOA_V

ClientSampleId :

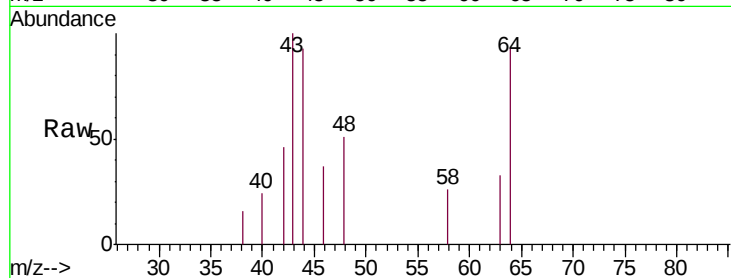
C0AF8DL

Tgt Ion: 43 Resp: 1063

Ion Ratio Lower Upper

43 100

58 17.6 0.0 25.6



Abundance Ion 43.05 (42.75 to 43.75): VV012305.D (-332) (-)

Ion 58.05 (57.75 to 58.75): VV012305.D (-332) (-)

2.19

600

400

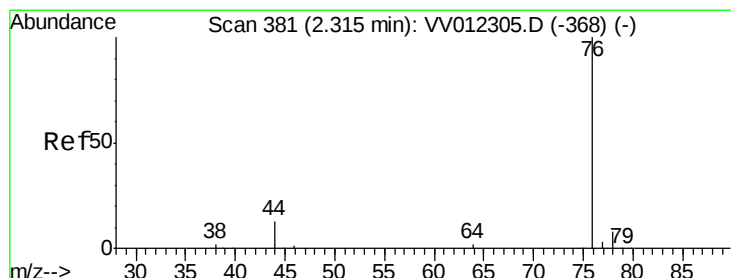
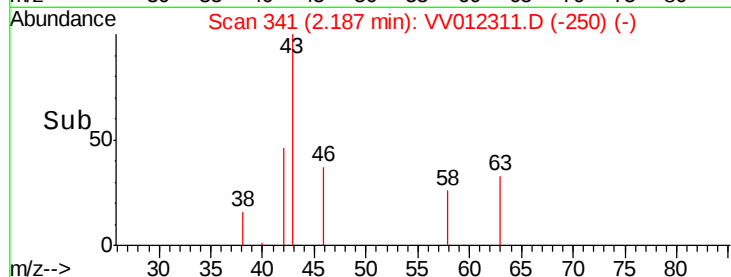
200

0

2.15

2.20

Time-->



#14

Carbon disulfide

Concen: 0.102 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV012311.D

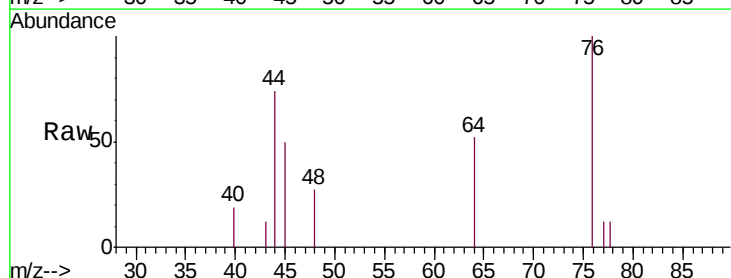
Acq: 20 Aug 2019 14:39

Tgt Ion: 76 Resp: 1506

Ion Ratio Lower Upper

76 100

78 12.1 8.3 12.5



Abundance Ion 76.05 (75.75 to 76.75): VV012305.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VV012305.D (-368) (-)

2.32

1000

800

600

400

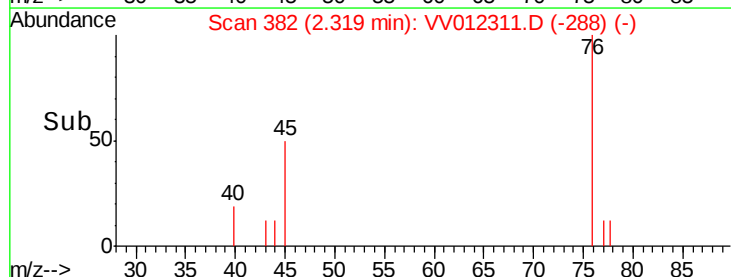
200

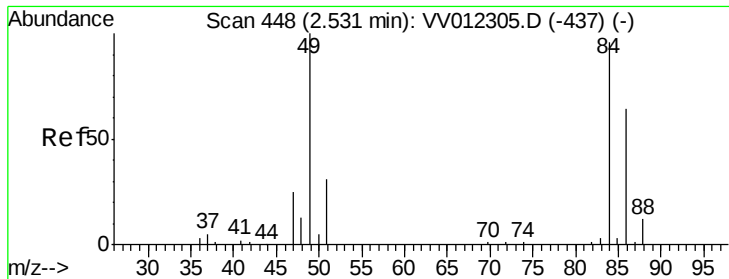
0

2.30

2.35

Time-->

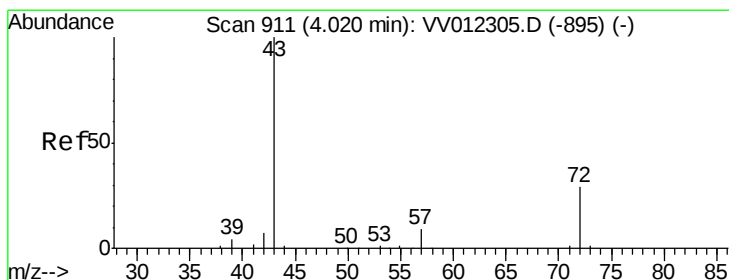
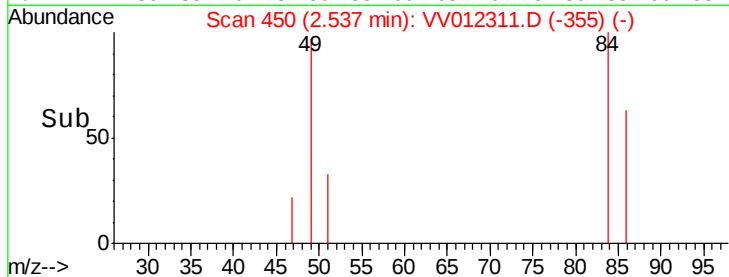
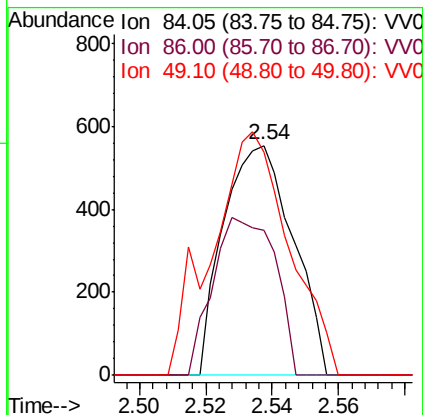
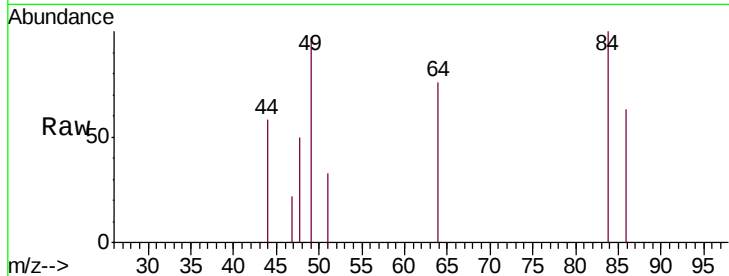




#16
Methylene chloride
Concen: 0.145 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.01 min
Lab File: VV012311.D
Acq: 20 Aug 2019 14:39

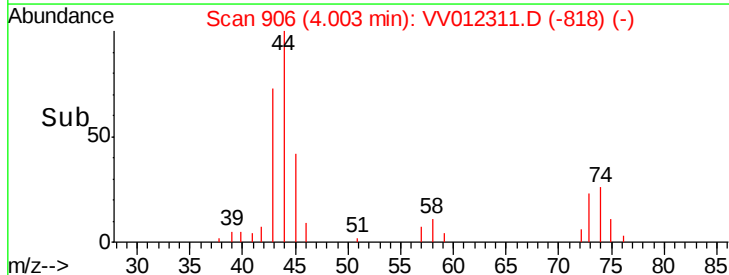
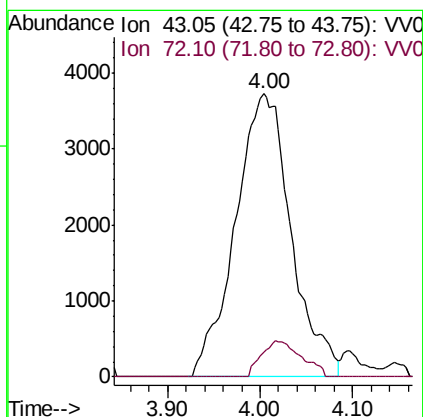
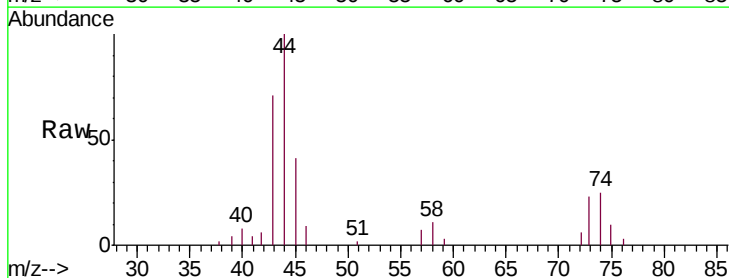
Instrument :
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ClientSampleId :
C0AF8DL

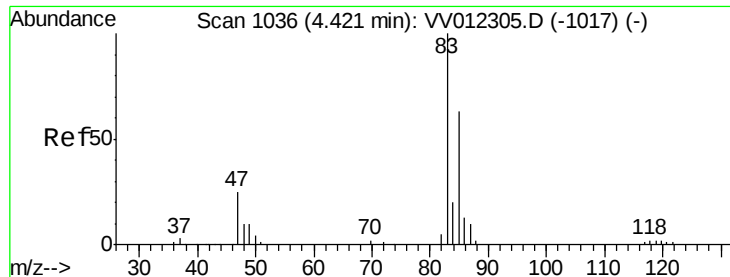
Tgt Ion: 84 Resp: 807
Ion Ratio Lower Upper
84 100
86 63.0 49.5 91.9
49 96.9 72.1 133.9



#21
2-Butanone
Concen: 9.836 ug/L
RT: 4.00 min Scan# 906
Delta R.T. -0.02 min
Lab File: VV012311.D
Acq: 20 Aug 2019 14:39

Tgt Ion: 43 Resp: 15635
Ion Ratio Lower Upper
43 100
72 9.1 14.8 44.4#

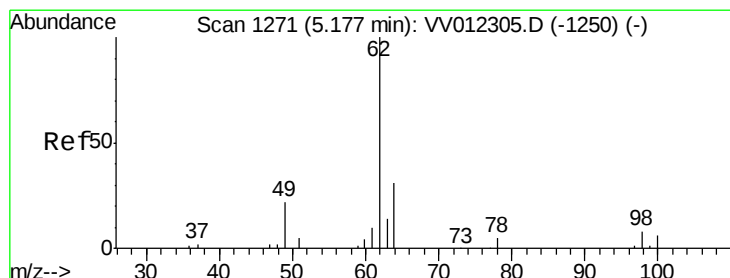
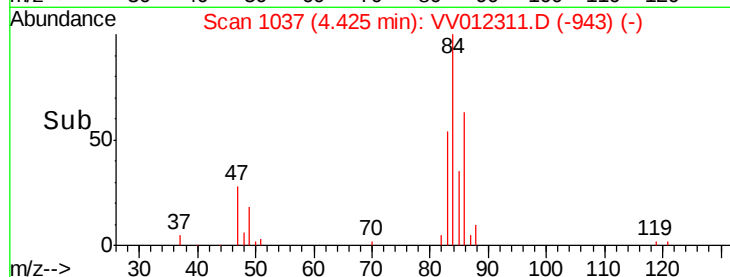
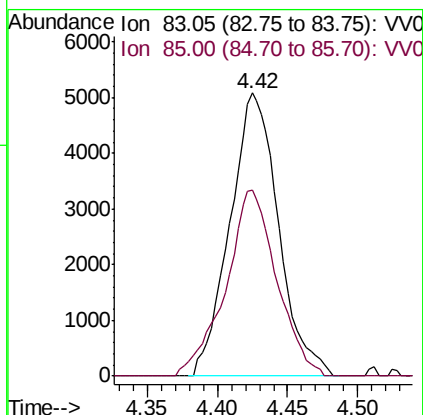
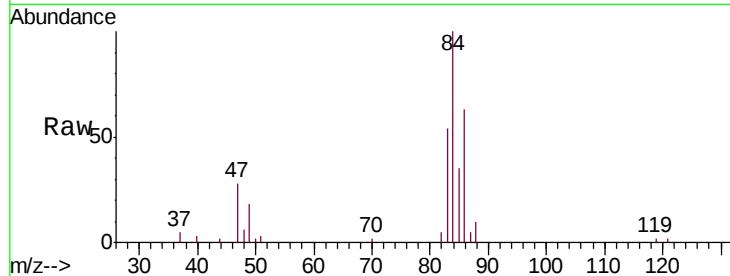




#25
Chloroform
Concen: 0.731 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV012311.D
Acq: 20 Aug 2019 14:39

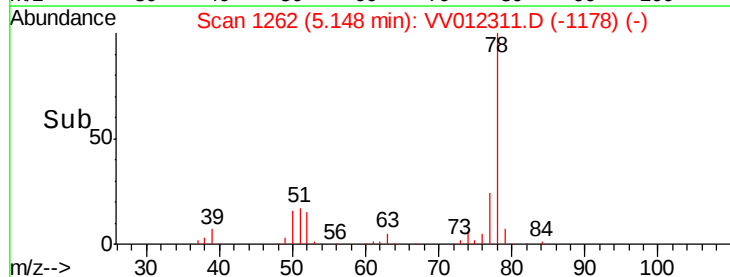
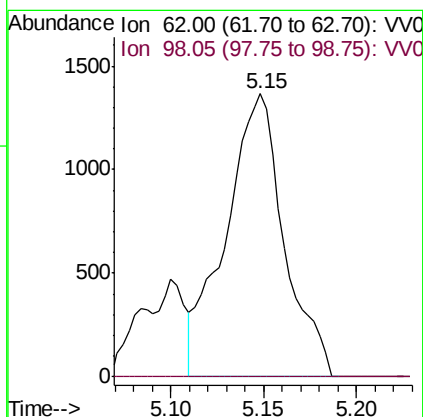
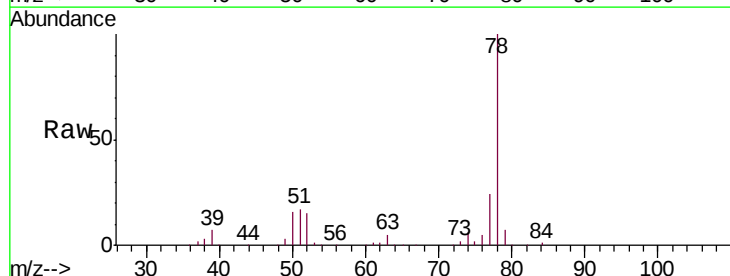
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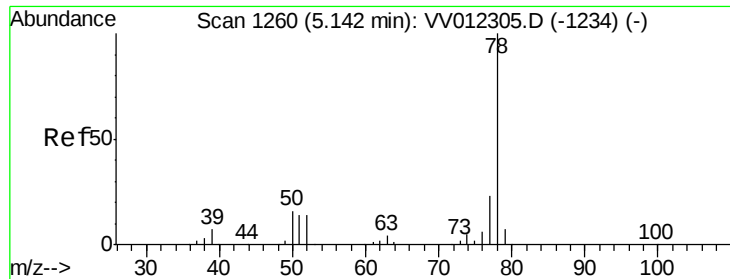
Tgt Ion: 83 Resp: 12248
Ion Ratio Lower Upper
83 100
85 65.6 46.1 85.5



#27
1,2-Dichloroethane
Concen: 0.313 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. -0.03 min
Lab File: VV012311.D
Acq: 20 Aug 2019 14:39

Tgt Ion: 62 Resp: 2990
Ion Ratio Lower Upper
62 100
98 0.0 7.6 11.4#

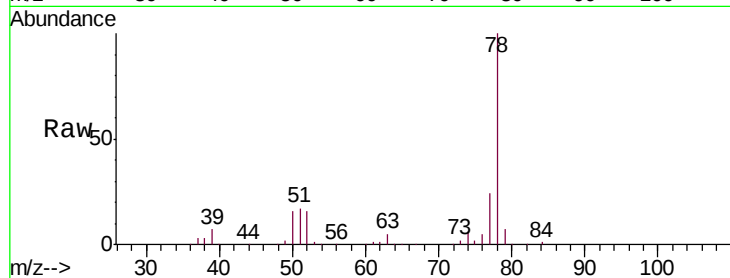




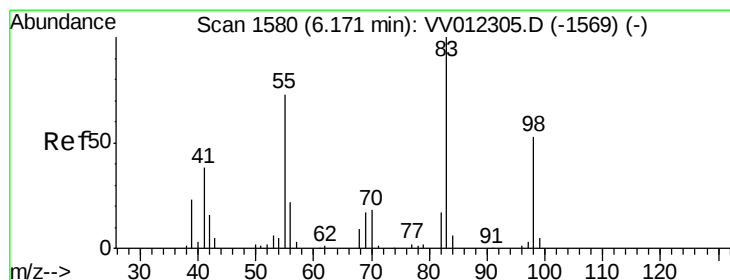
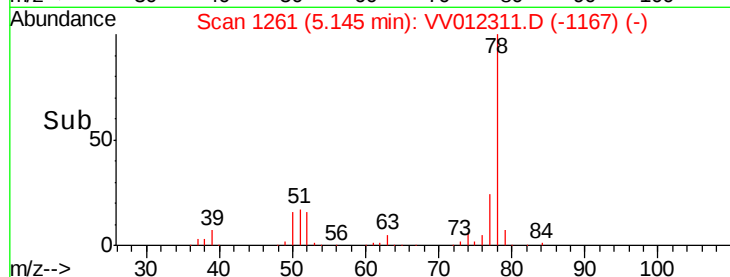
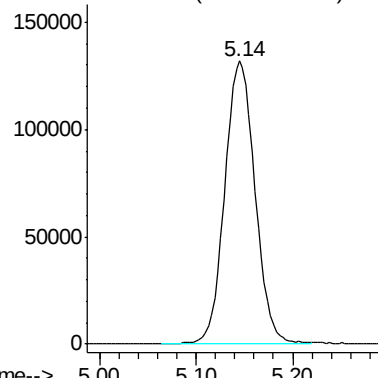
#33
Benzene
Concen: 9.647 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV012311.D
Acq: 20 Aug 2019 14:39

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Tgt Ion: 78 Resp: 287130

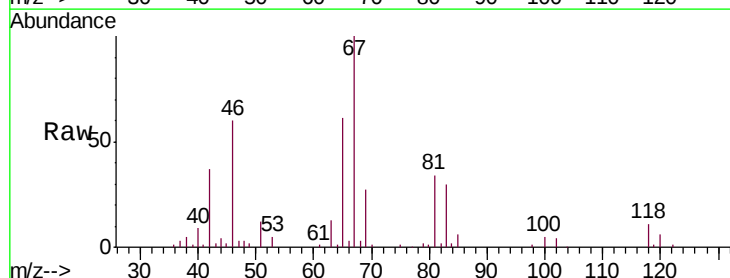


Abundance Ion 78.10 (77.80 to 78.80): VV0



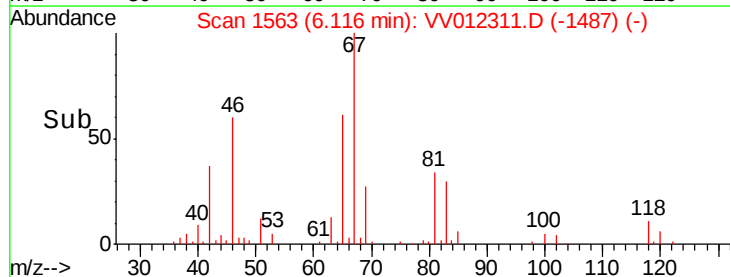
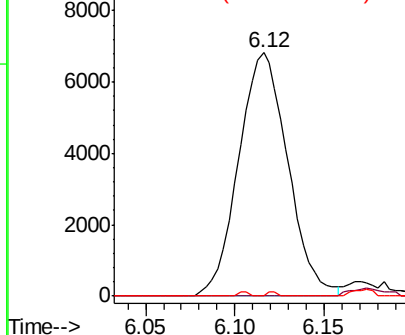
#35
Methylcyclohexane
Concen: 1.006 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.05 min
Lab File: VV012311.D
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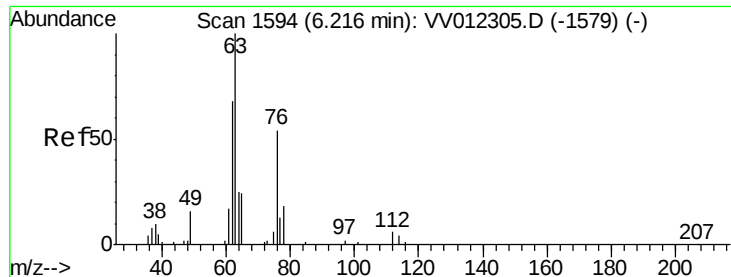
Tgt Ion: 83 Resp: 13147
Ion Ratio Lower Upper
83 100
55 0.0 57.3 85.9#
98 0.3 40.3 60.5#



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: 0.813 ug/L

RT: 6.11 min Scan# 1562

Delta R.T. -0.10 min

Lab File: VV012311.D

Acq: 20 Aug 2019 14:39

Instrument :

MSVOA_V

ClientSampleId :

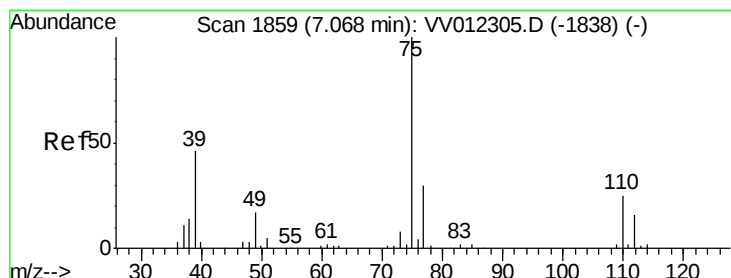
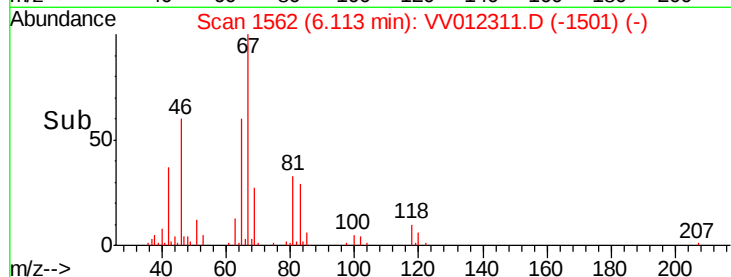
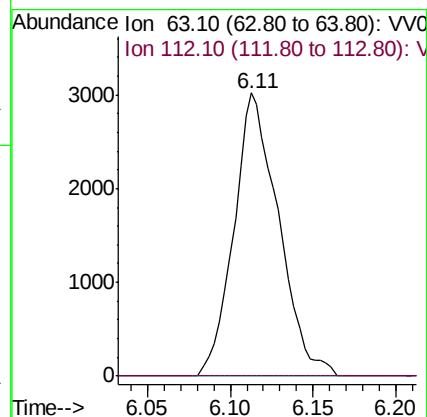
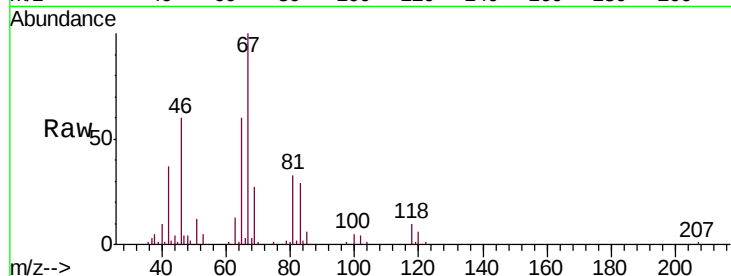
C0AF8DL

Tgt Ion: 63 Resp: 5661

Ion Ratio Lower Upper

63 100

112 0.0 5.1 7.7#



#39

cis-1,3-Dichloropropene

Concen: 0.138 ug/L

RT: 7.03 min Scan# 1846

Delta R.T. -0.04 min

Lab File: VV012311.D

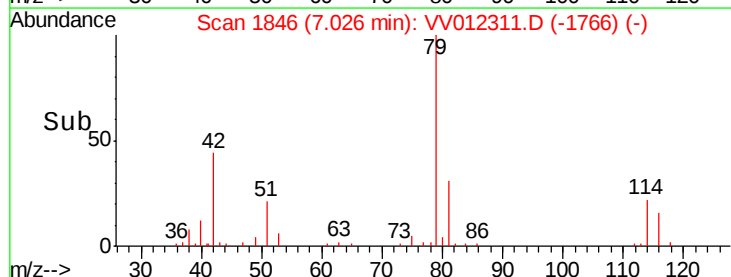
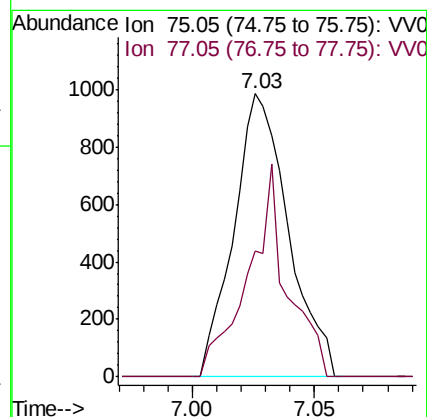
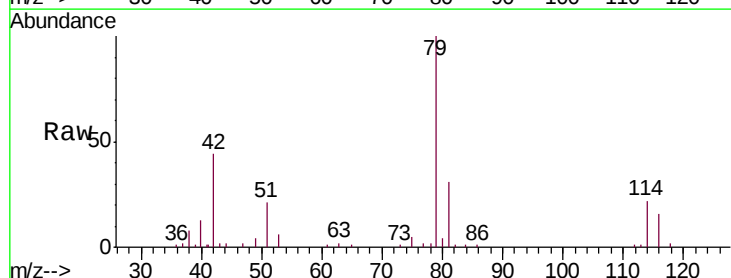
Acq: 20 Aug 2019 14:39

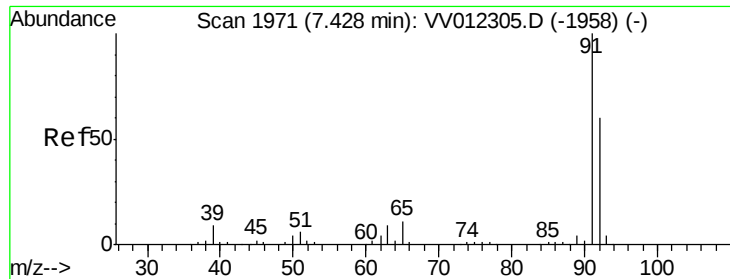
Tgt Ion: 75 Resp: 1526

Ion Ratio Lower Upper

75 100

77 44.5 21.5 39.9#





#42

Toluene

Concen: 10.822 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

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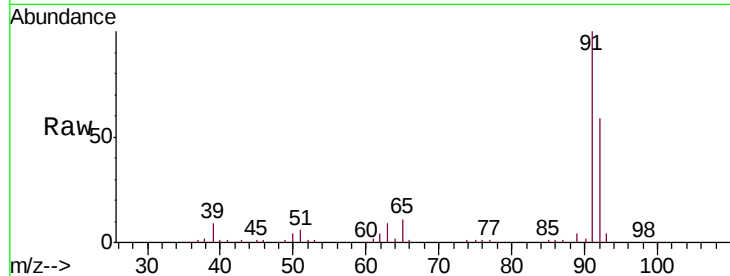
C0AF8DL

Tgt Ion: 91 Resp: 356532

Ion Ratio Lower Upper

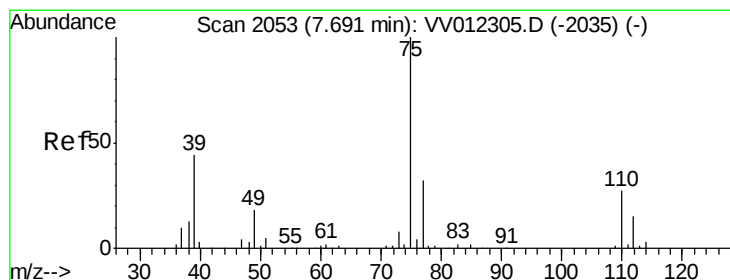
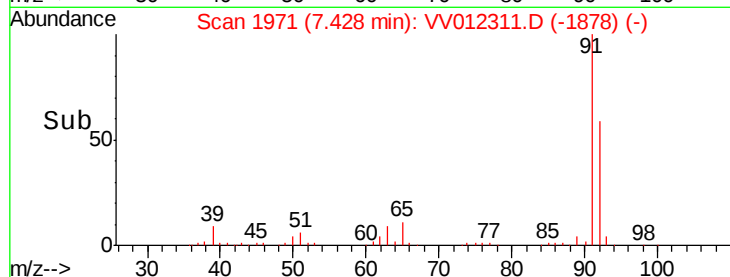
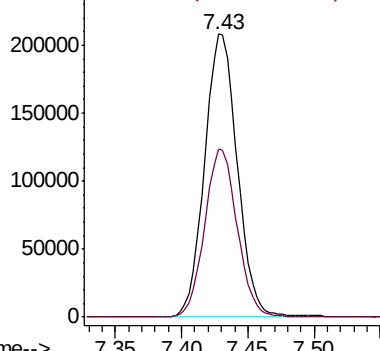
91 100

92 59.2 41.6 77.3



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.105 ug/L

RT: 7.67 min Scan# 2045

Delta R.T. -0.03 min

Lab File: VV012311.D

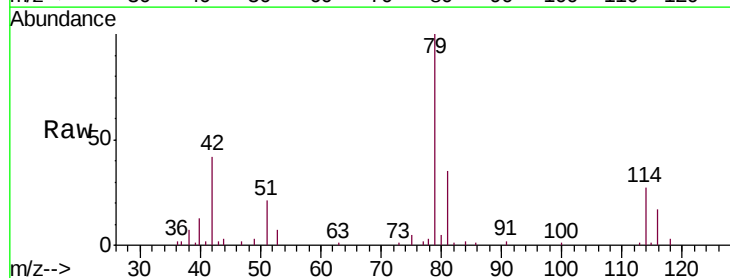
Acq: 20 Aug 2019 14:39

Tgt Ion: 75 Resp: 926

Ion Ratio Lower Upper

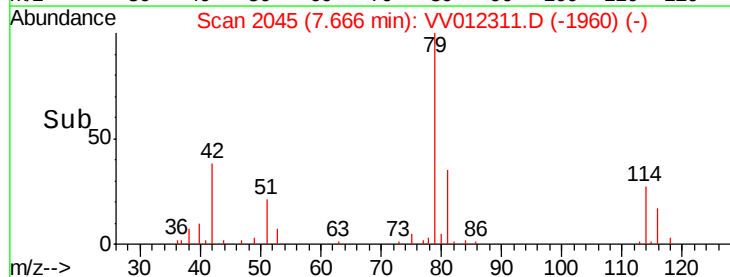
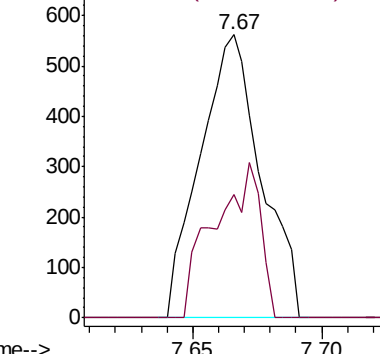
75 100

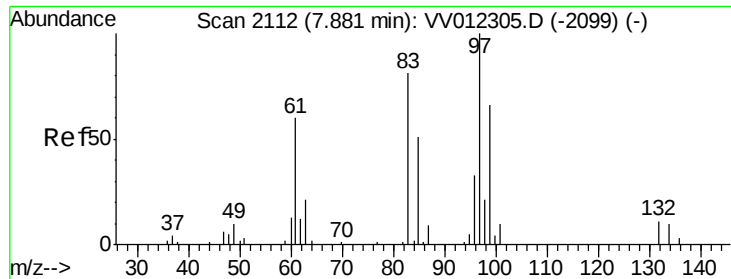
77 43.6 22.1 41.1#



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

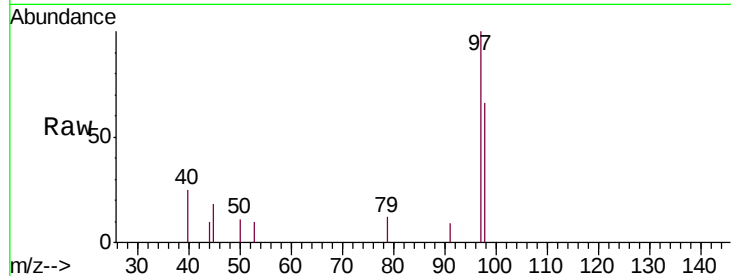




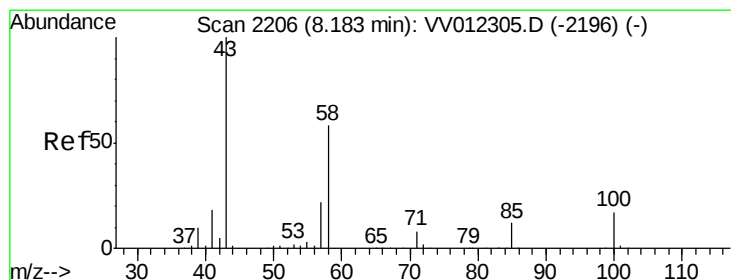
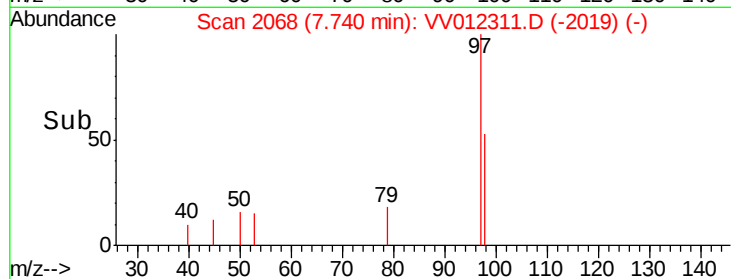
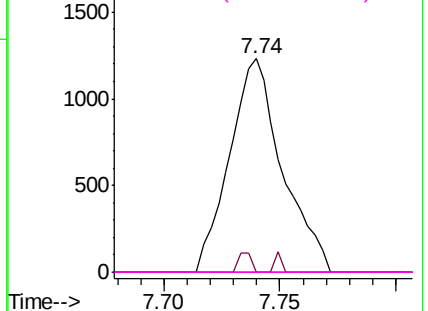
#45
 1,1,2-Trichloroethane
 Concen: 0.364 ug/L
 RT: 7.74 min Scan# 2068
 Delta R.T. -0.14 min
 Lab File: VV012311.D
 Acq: 20 Aug 2019 14:39

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AF8DL

Tgt Ion: 97 Resp: 1946
 Ion Ratio Lower Upper
 97 100
 99 0.0 44.7 83.1#
 83 0.0 56.8 105.6#
 85 0.0 34.5 64.1#

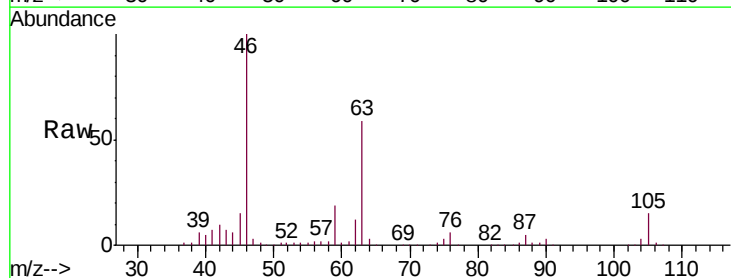


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

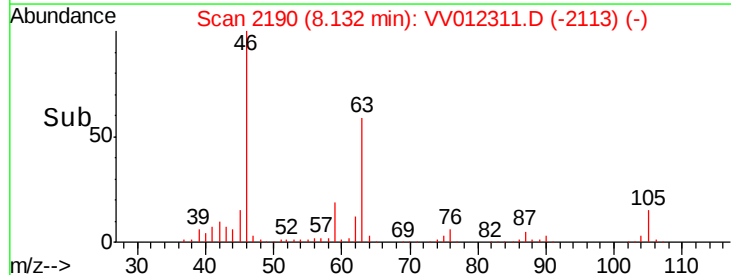
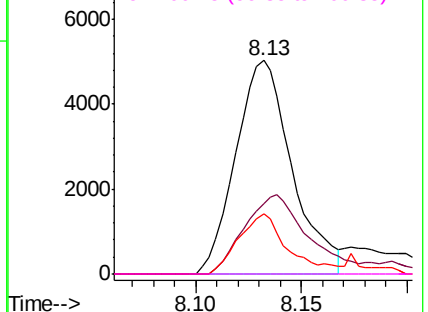


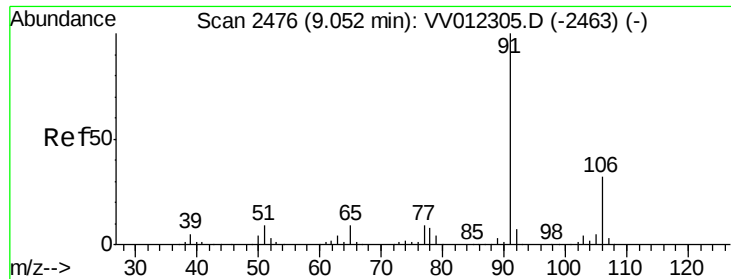
#48
 2-Hexanone
 Concen: 3.545 ug/L
 RT: 8.13 min Scan# 2190
 Delta R.T. -0.05 min
 Lab File: VV012311.D
 Acq: 20 Aug 2019 14:39

Tgt Ion: 43 Resp: 9331
 Ion Ratio Lower Upper
 43 100
 58 42.4 45.4 68.2#
 57 24.5 16.8 25.2
 100 0.0 12.2 18.2#



Abundance Ion 43.05 (42.75 to 43.75): VV0
 Ion 58.05 (57.75 to 58.75): VV0
 Ion 57.20 (56.90 to 57.90): VV0
 Ion 100.15 (99.85 to 100.85): VV0

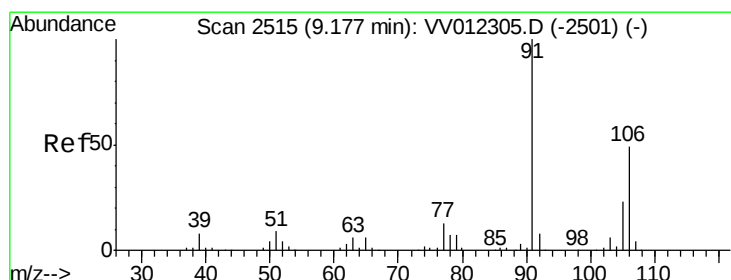
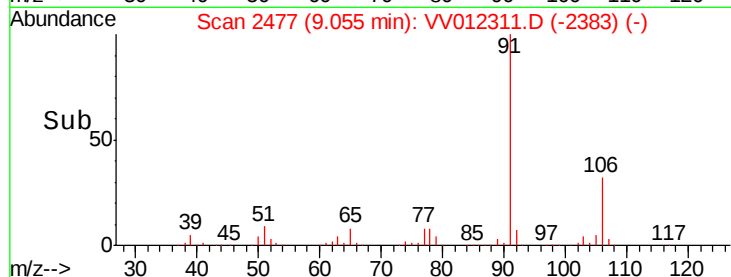
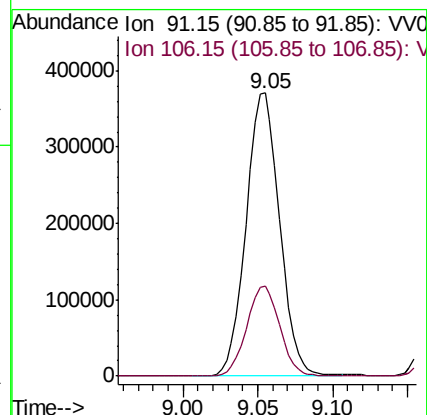
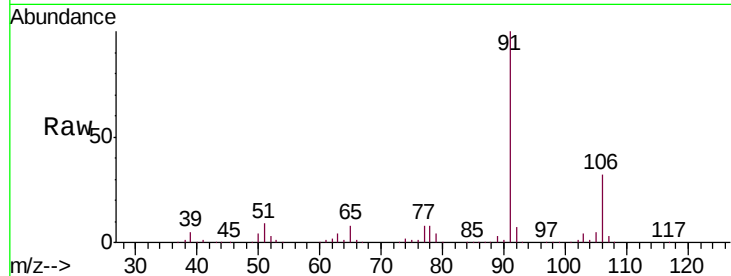




#52
Ethylbenzene
Concen: 15.714 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV012311.D
Acq: 20 Aug 2019 14:39

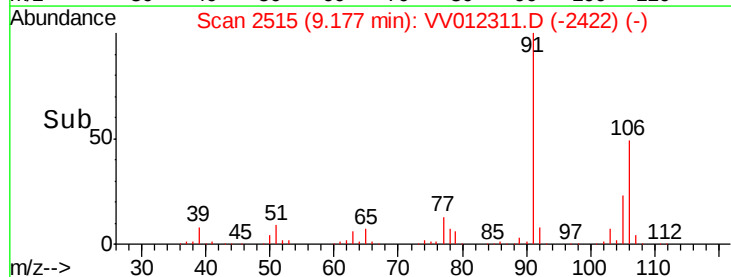
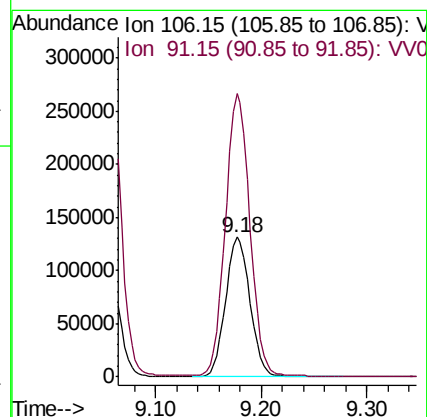
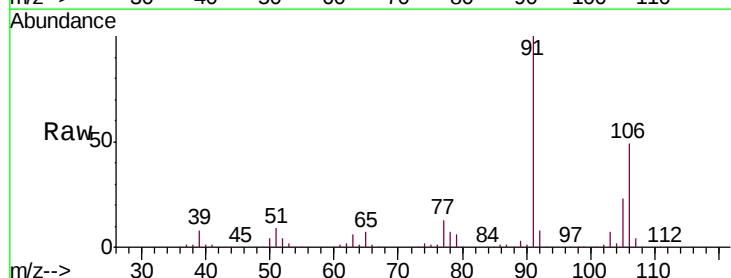
Instrument :
MSVOA_V
ClientSampleId :
C0AF8DL

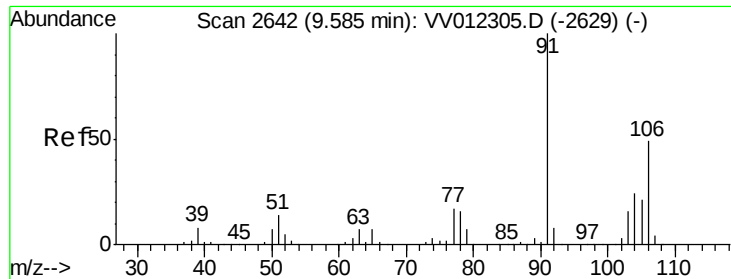
Tgt Ion: 91 Resp: 579230
Ion Ratio Lower Upper
91 100
106 31.8 21.6 40.0



#53
m,p-xylene
Concen: 14.631 ug/L
RT: 9.18 min Scan# 2515
Delta R.T. 0.00 min
Lab File: VV012311.D
Acq: 20 Aug 2019 14:39

Tgt Ion: 106 Resp: 210538
Ion Ratio Lower Upper
106 100
91 202.3 136.0 252.6

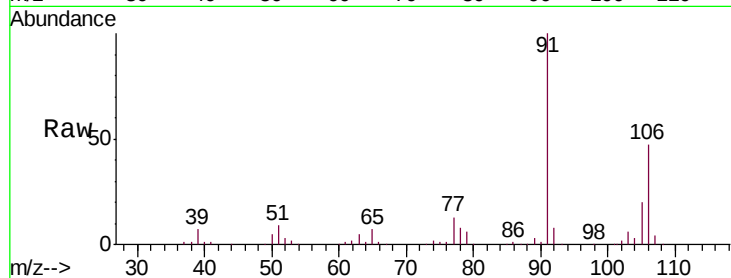




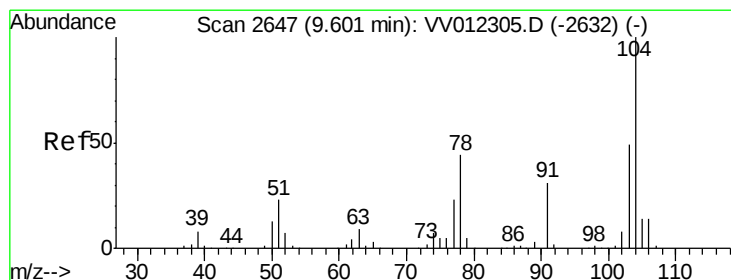
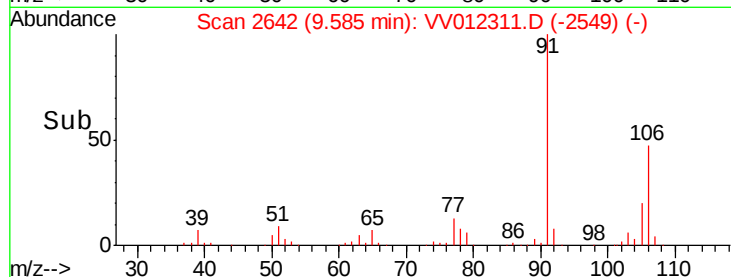
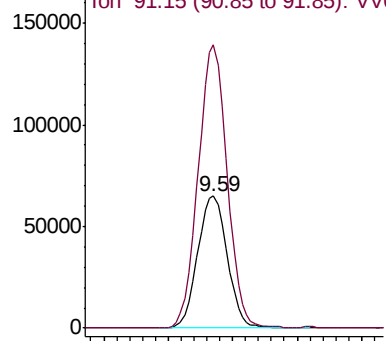
#54
o-xylene
Concen: 7.514 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV012311.D
Acq: 20 Aug 2019 14:39

Instrument :
MSVOA_V
ClientSampleId :
C0AF8DL

Tgt Ion:106 Resp: 103994
Ion Ratio Lower Upper
106 100
91 214.1 148.7 276.1

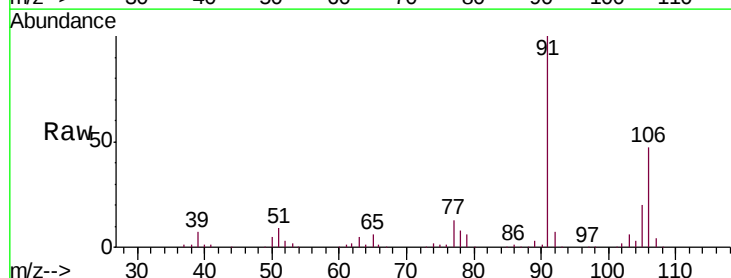


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

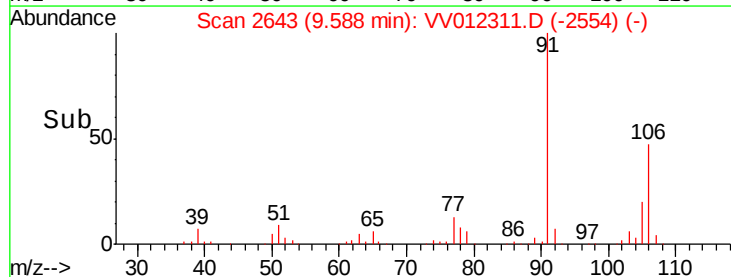
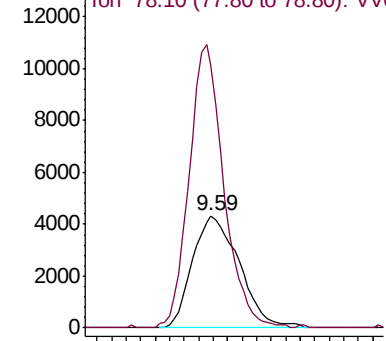


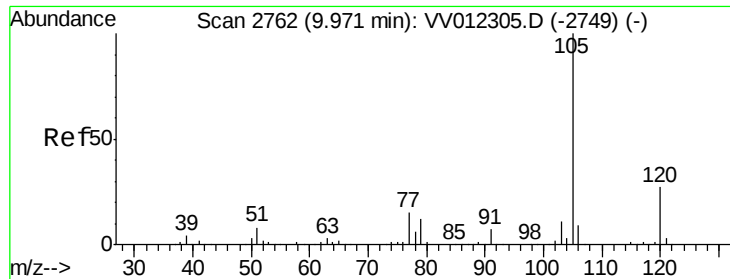
#55
Styrene
Concen: 0.415 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. -0.01 min
Lab File: VV012311.D
Acq: 20 Aug 2019 14:39

Tgt Ion:104 Resp: 9690
Ion Ratio Lower Upper
104 100
78 234.6 30.8 57.2#



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





#56

Isopropylbenzene

Concen: 4.022 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV012311.D

Acq: 20 Aug 2019 14:39

Instrument :

MSVOA_V

ClientSampleId :

C0AF8DL

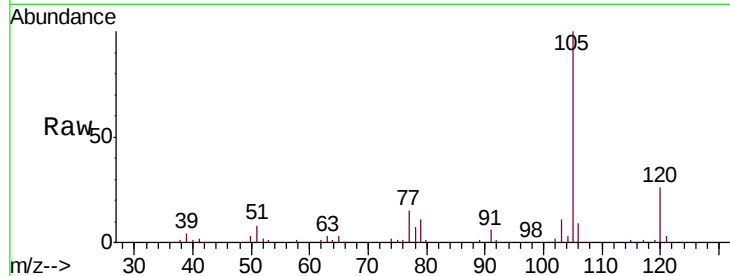
Tgt Ion: 105 Resp: 153636

Ion Ratio Lower Upper

105 100

120 26.1 21.4 32.0

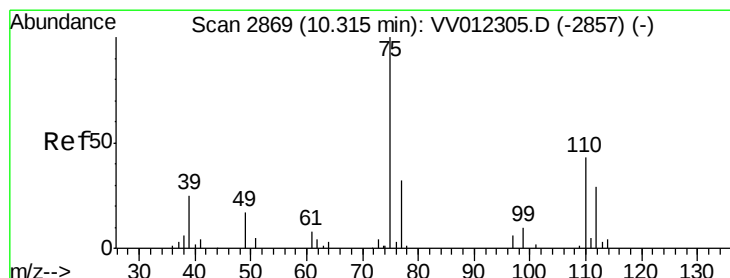
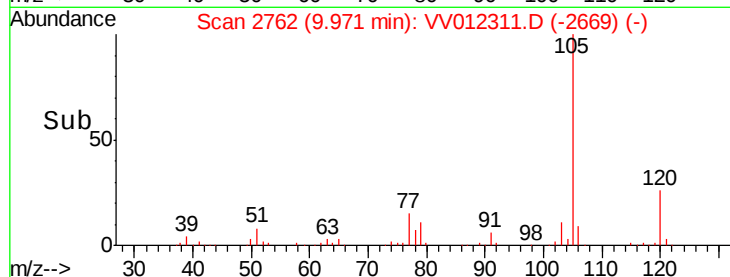
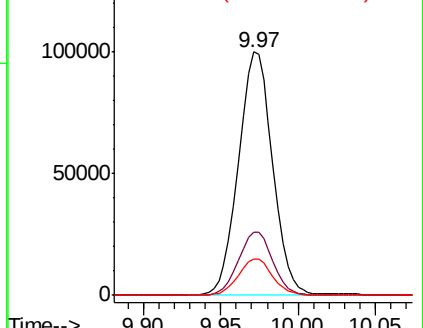
77 15.0 12.2 18.2



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



#59

1,2,3-Trichloropropane

Concen: 0.411 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. 0.18 min

Lab File: VV012311.D

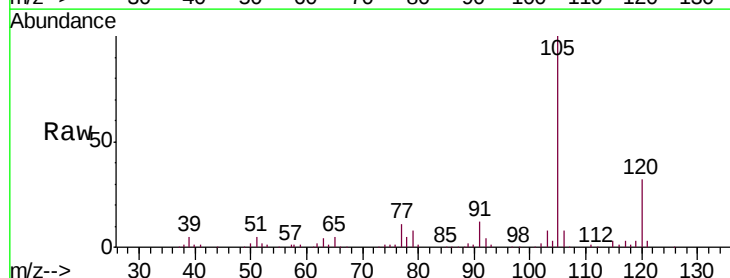
Acq: 20 Aug 2019 14:39

Tgt Ion: 75 Resp: 1773

Ion Ratio Lower Upper

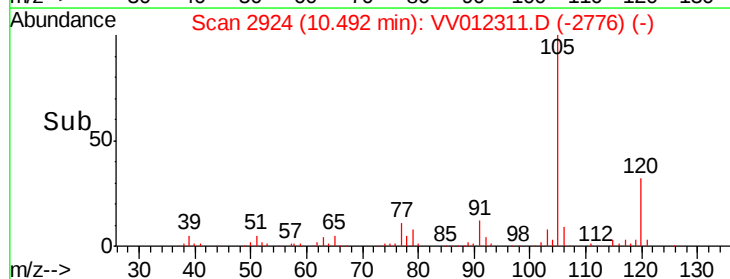
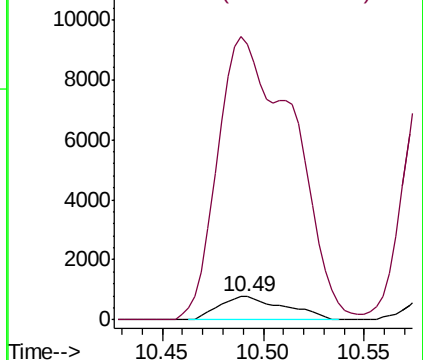
75 100

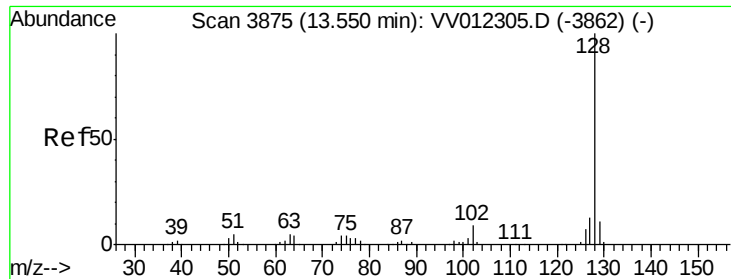
77 1395.0 25.8 38.8#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#69

Naphthalene

Concen: 724.830 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV012311.D

Acq: 20 Aug 2019 14:39

Instrument :

MSVOA_V

ClientSampleId :

C0AF8DL

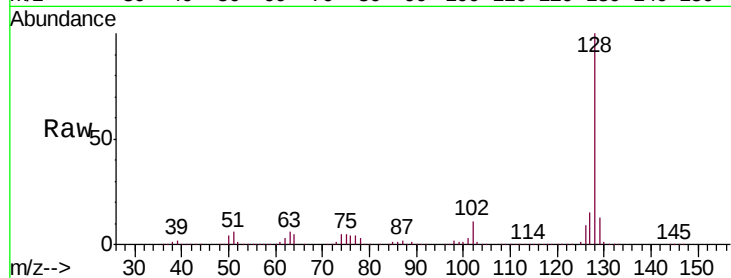
Tgt Ion:128 Resp:12771493

Ion Ratio Lower Upper

128 100

129 12.3 8.7 13.1

127 14.6 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

