

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040819\
 Data File : VV010196.D
 Acq On : 09 Apr 2019 01:29
 Operator : SY/MD
 Sample : K2254-08
 Misc : 4.68G/10mL/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFC29

Quant Time: Apr 09 07:39:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Apr 09 07:35:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	313523	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	239403	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	71091	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	69941	16.66	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	66.64%
7) Chloroethane-d5	1.57	69	106784	20.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	81.92%
10) 1,1-Dichloroethene-d2	2.12	63	149388	14.11	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	56.44%
20) 2-Butanone-d5	3.94	46	43586	36.49	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	72.98%
24) Chloroform-d	4.40	84	173924	22.02	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	88.08%
26) 1,2-Dichloroethane-d4	5.08	65	95558	21.62	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	86.48%
29) Benzene-d6	5.09	84	357585	28.80	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	115.20%
33) 1,2-Dichloropropane-d6	6.12	67	107373	29.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	117.24%
37) Toluene-d8	7.36	98	306083	25.59	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	102.36%
38) trans-1,3-Dichloropropene-	7.66	79	27414	17.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	70.00%
39) 2-Hexanone-d5	8.13	63	30625	41.68	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	83.36%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	64843	17.94	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	71.76%
61) 1,2-Dichlorobenzene-d4	11.67	152	64103	23.15	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.60%

Target Compounds

					Ovalue
5) Vinyl chloride	1.53	62	2313	0.526 ug/L	95
9) Trichlorofluoromethane	1.76	101	125251	13.806 ug/L	98
13) Acetone	2.19	43	31562	26.728 ug/L	96
14) Carbon disulfide	2.31	76	7711	0.867 ug/L	100
16) Methylene chloride	2.53	84	22395	4.066 ug/L	95
17) Methyl tert-butyl Ether	2.80	73	12282	1.338 ug/L #	1
21) 2-Butanone	4.03	43	4810	3.719 ug/L	81
25) Chloroform	4.42	83	11257	1.579 ug/L #	71
30) Cyclohexane	4.72	56	83080	19.224 ug/L	87
34) Benzene	5.14	78	63760	5.446 ug/L	100
36) Methylcyclohexane	6.17	83	117871	23.349 ug/L	94
42) cis-1,3-Dichloropropene	7.03	75	2663	0.622 ug/L #	72
43) 4-Methyl-2-pentanone	7.28	43	15009	6.858 ug/L #	92
44) Toluene	7.43	91	186767	14.214 ug/L	97
52) Chlorobenzene	8.92	112	4378	0.488 ug/L	95
53) Ethylbenzene	9.05	91	1510240	104.820 ug/L	99
54) m,p-Xylene	9.18	106	999689	178.265 ug/L	98

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Quant Title : VOC Analysis
QLast Update : Tue Apr 09 07:35:38 2019
Response via : Initial Calibration

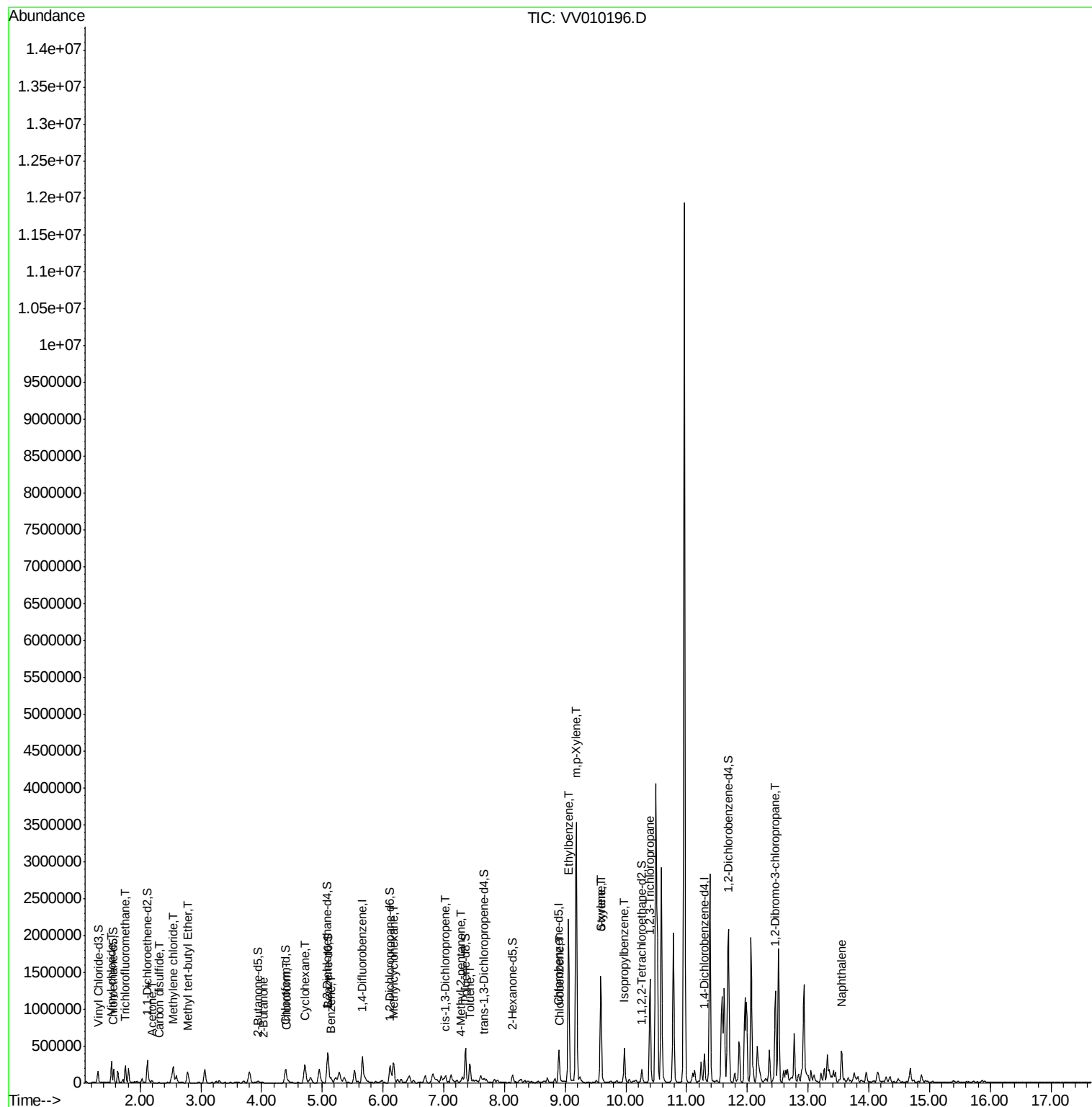
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) o-xylene	9.59	106	398008	73.258	ug/L	93
56) Styrene	9.59	104	26195	2.915	ug/L #	1
57) Isopropylbenzene	9.97	105	298837	20.857	ug/L	99
59) 1,2,3-Trichloropropane	10.40	75	7246	3.000	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	12.46	75	4916	17.687	ug/L #	2
69) Naphthalene	13.55	128	324320	82.152	ug/L	99

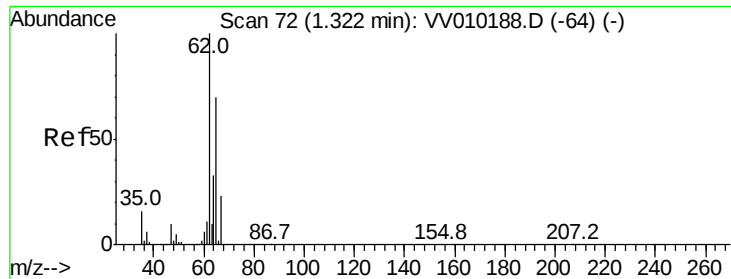
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.526 ug/L

RT: 1.53 min Scan# 136

Delta R.T. 0.21 min

Lab File: VV010196.D

Acq: 09 Apr 2019 01:29

Instrument :

MSVOA_V

ClientSampleId :

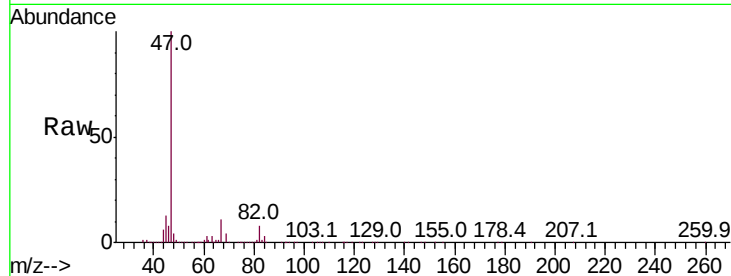
BFC29

Tot Ion: 62 Resp: 2313

Ion Ratio Lower Upper

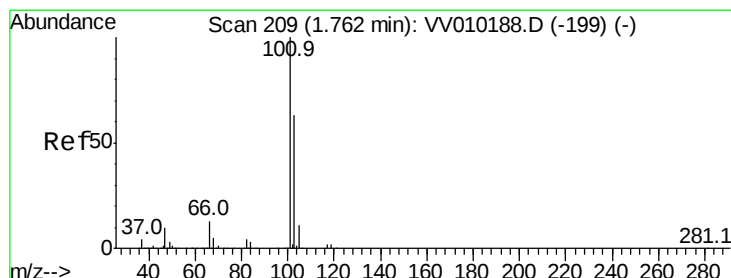
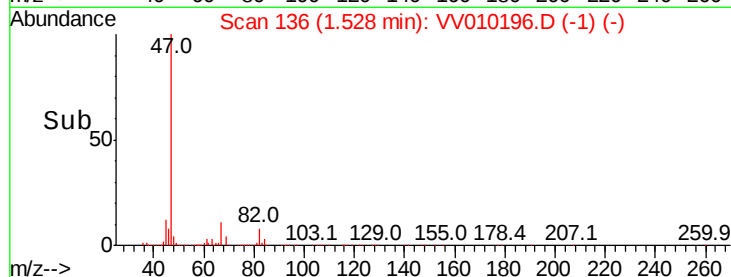
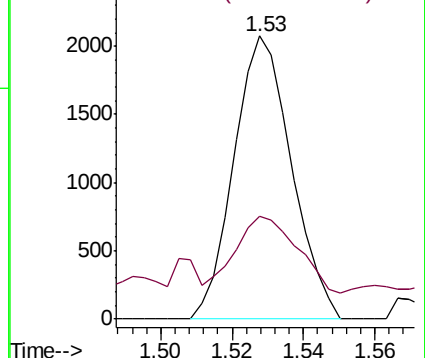
62 100

64 36.5 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#9

Trichlorofluoromethane

Concen: 13.806 ug/L

RT: 1.76 min Scan# 207

Delta R.T. -0.01 min

Lab File: VV010196.D

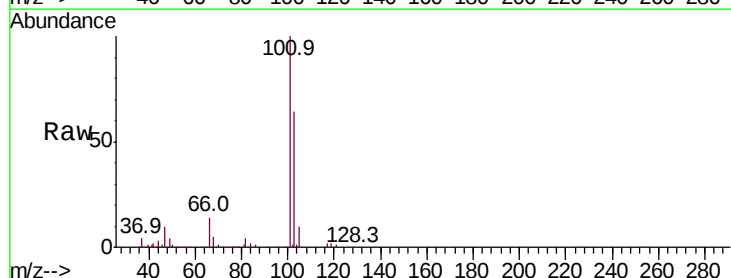
Acq: 09 Apr 2019 01:29

Tgt Ion: 101 Resp: 125251

Ion Ratio Lower Upper

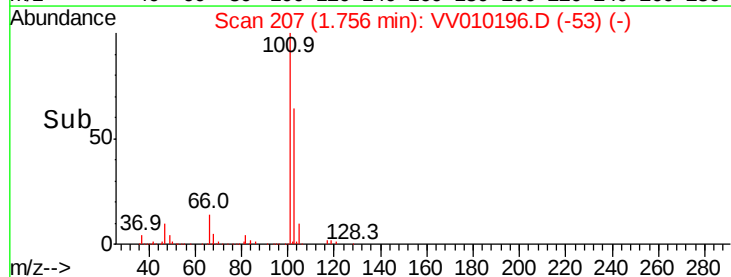
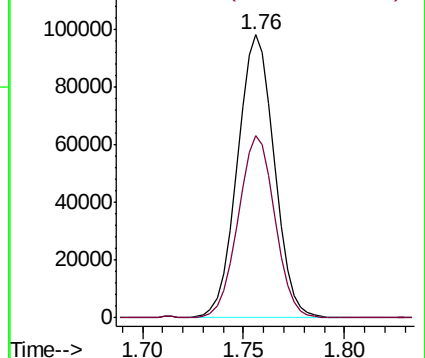
101 100

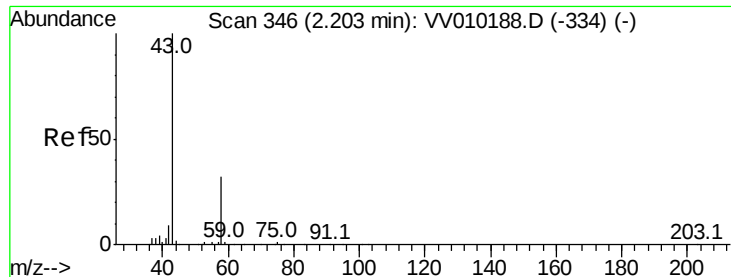
103 64.4 46.1 85.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Acetone

Concen: 26.728 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.01 min

Lab File: VV010196.D

Acq: 09 Apr 2019 01:29

Instrument :

MSVOA_V

ClientSampleId :

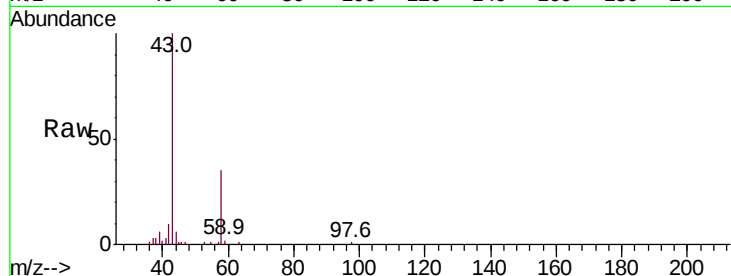
BFC29

Tot Ion: 43 Resp: 31562

Ion Ratio Lower Upper

43 100

58 34.4 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VV010188.D (-334) (-)

Ion 58.00 (57.70 to 58.70): VV010188.D (-334) (-)

2.19

20000

15000

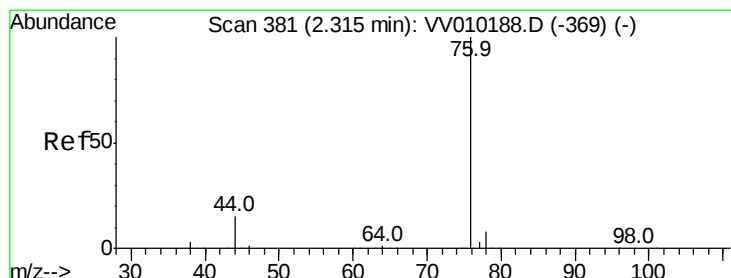
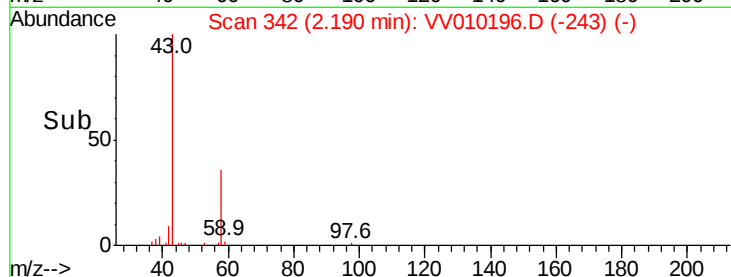
10000

5000

0

2.15 2.20 2.25

Time-->



#14

Carbon disulfide

Concen: 0.867 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV010196.D

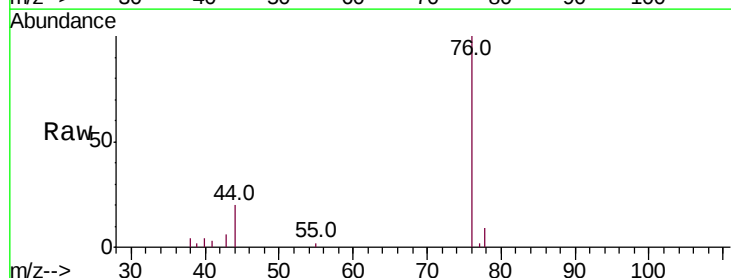
Acq: 09 Apr 2019 01:29

Tgt Ion: 76 Resp: 7711

Ion Ratio Lower Upper

76 100

78 8.8 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV010188.D (-369) (-)

Ion 78.00 (77.70 to 78.70): VV010188.D (-369) (-)

2.31

6000

5000

4000

3000

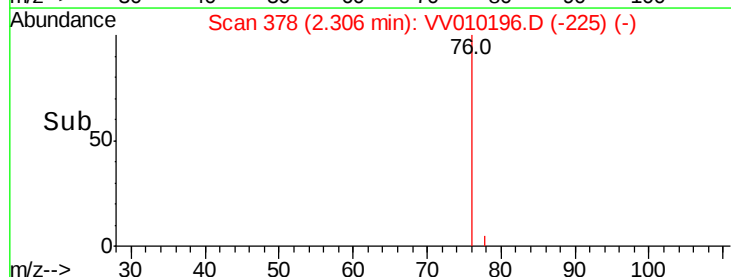
2000

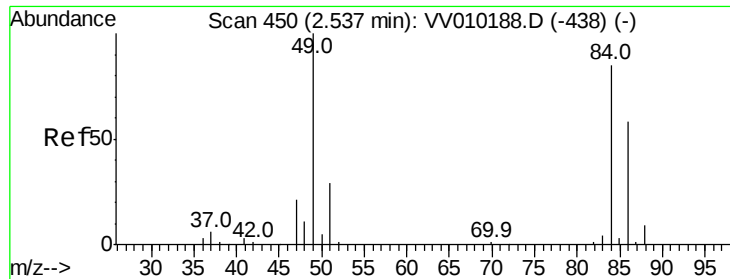
1000

0

2.25 2.30 2.35

Time-->

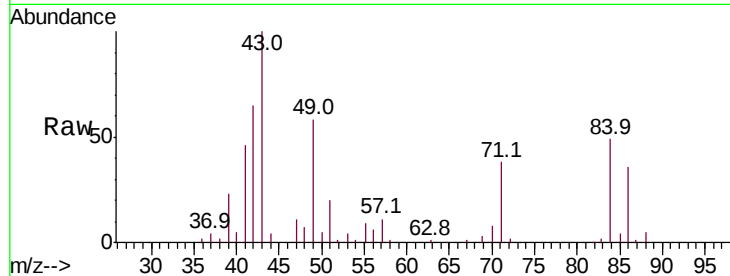




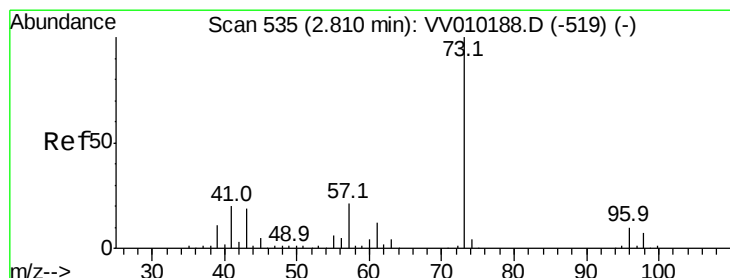
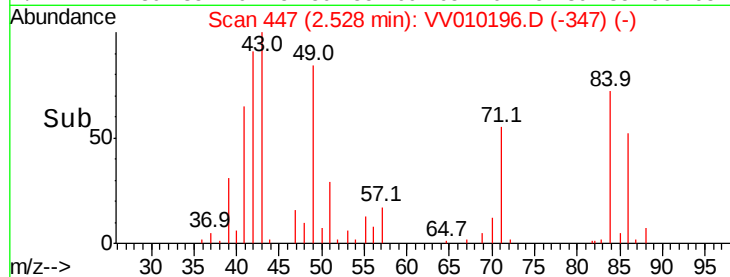
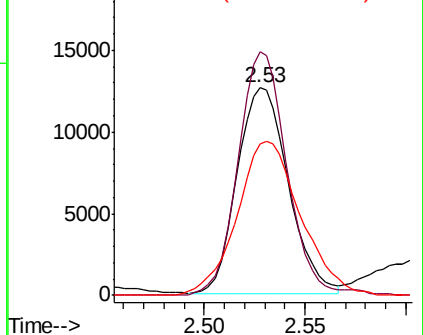
#16
Methvlene chloride
Concen: 4.066 ug/L
RT: 2.53 min Scan# 447
Delta R.T. -0.01 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

Instrument :
MSVOA_V
ClientSampleId :
BFC29

Tot Ion: 84 Resp: 22395
Ion Ratio Lower Upper
84 100
49 117.3 84.3 156.5
86 72.8 45.4 84.2

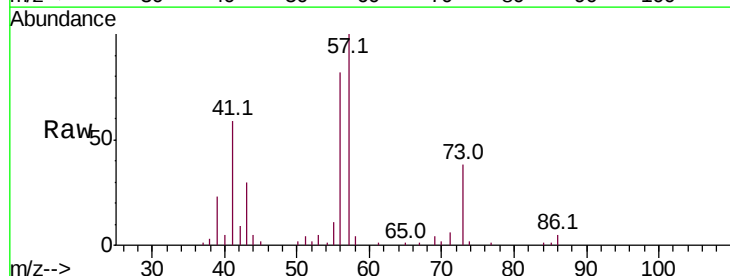


Abundance Ion 84.00 (83.70 to 84.70): VV0
Ion 49.00 (48.70 to 49.70): VV0
Ion 86.00 (85.70 to 86.70): VV0

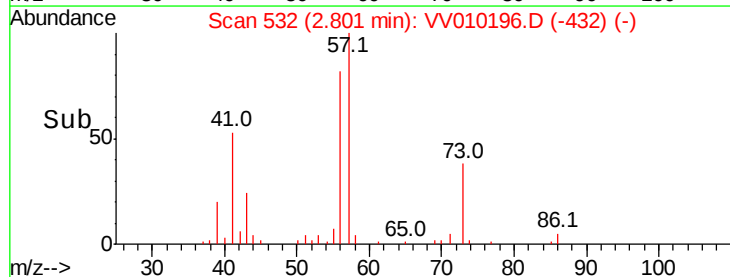
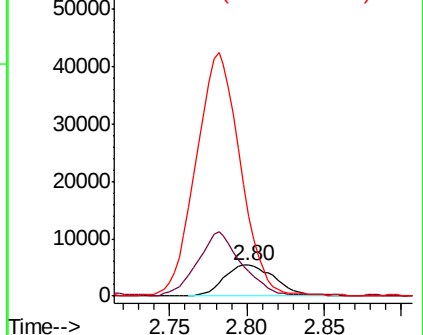


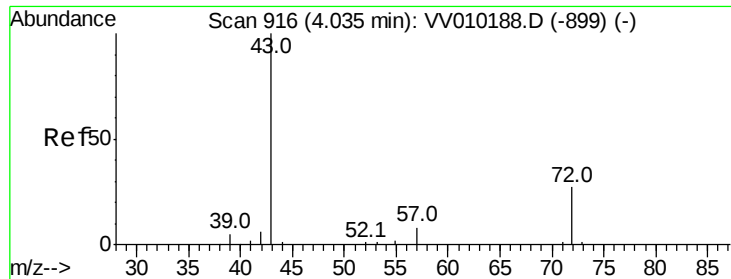
#17
Methyl tert-butyl Ether
Concen: 1.338 ug/L
RT: 2.80 min Scan# 532
Delta R.T. -0.01 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

Tgt Ion: 73 Resp: 12282
Ion Ratio Lower Upper
73 100
43 177.7 15.5 23.3#
57 681.7 16.8 25.2#



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





#21

2-Butanone

Concen: 3.719 ug/L

RT: 4.03 min Scan# 913

Delta R.T. -0.01 min

Lab File: VV010196.D

Acq: 09 Apr 2019 01:29

Instrument :

MSVOA_V

ClientSampled :

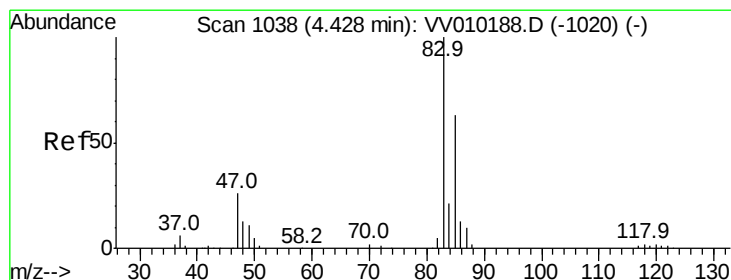
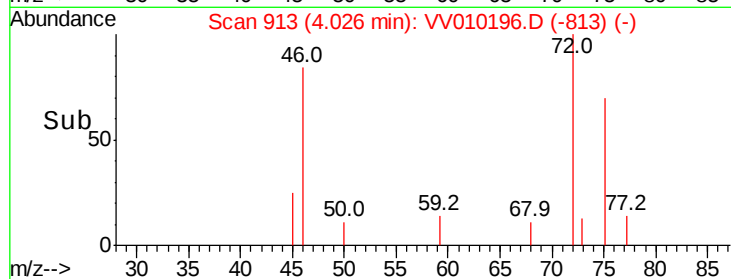
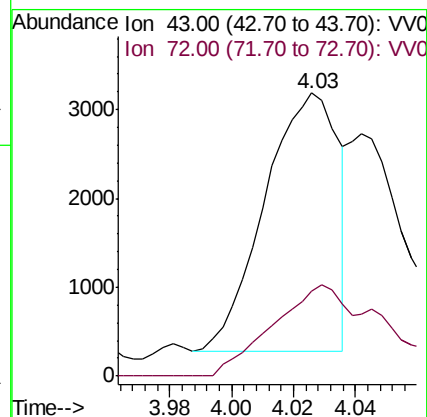
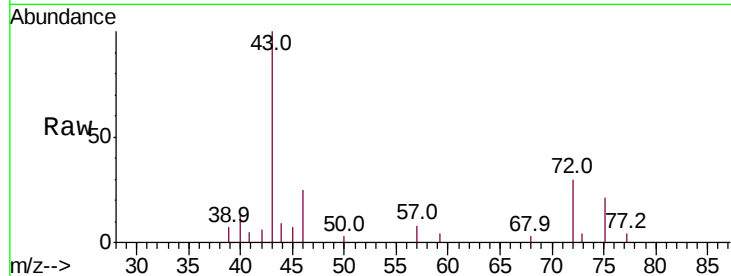
BFC29

Tot Ion: 43 Resp: 4810

Ion Ratio Lower Upper

43 100

72 35.1 12.8 38.4



#25

Chloroform

Concen: 1.579 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VV010196.D

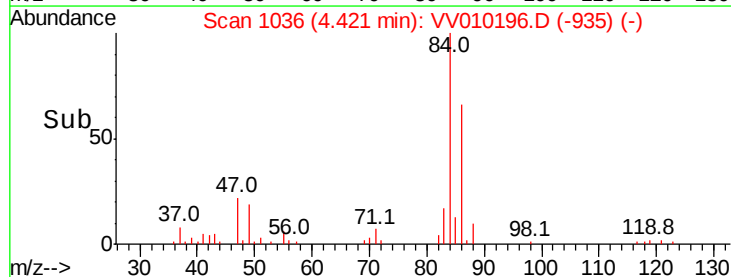
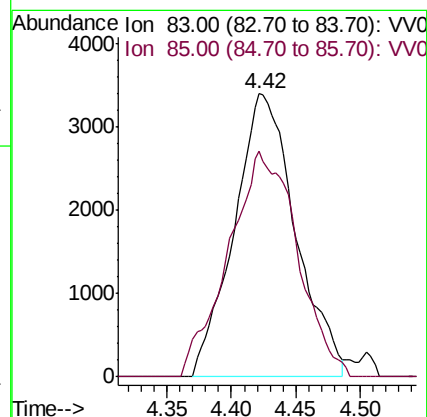
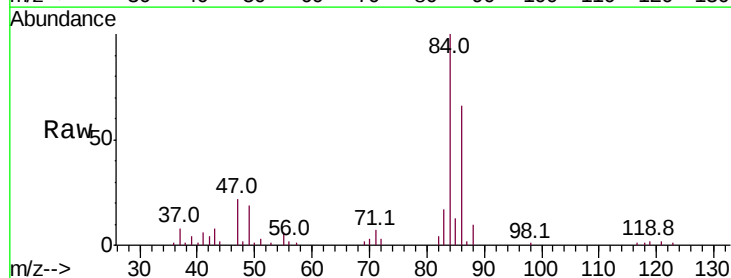
Acq: 09 Apr 2019 01:29

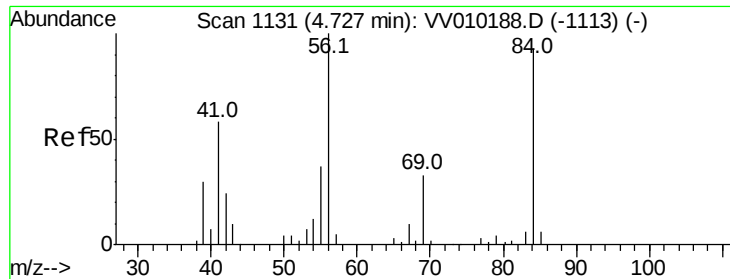
Tgt Ion: 83 Resp: 11257

Ion Ratio Lower Upper

83 100

85 89.1 46.4 86.2#

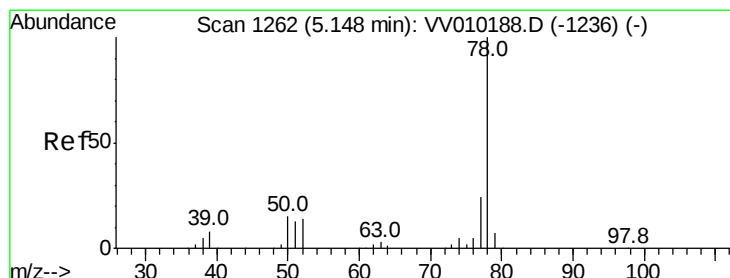
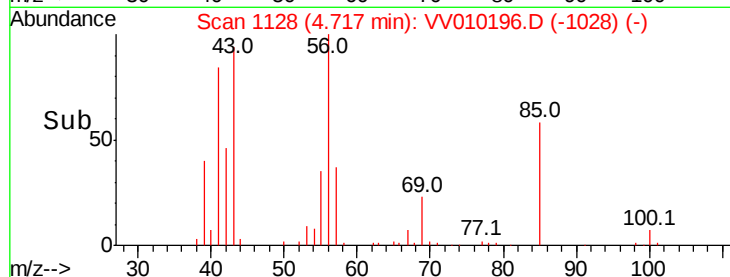
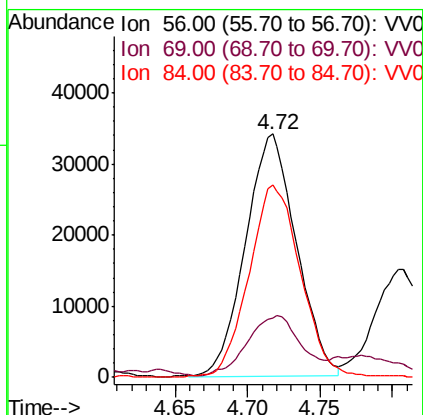
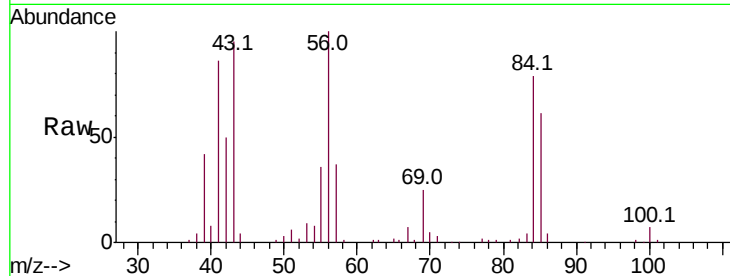




#30
Cyclohexane
Concen: 19.224 ug/L
RT: 4.72 min Scan# 1128
Delta R.T. -0.01 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

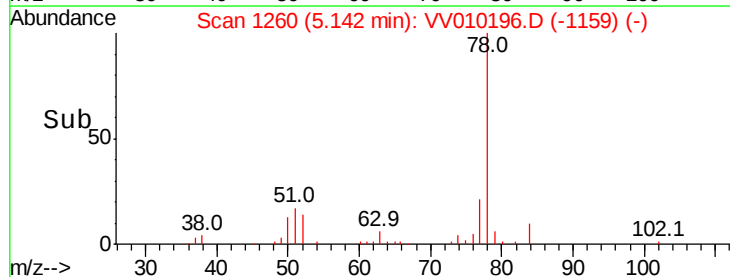
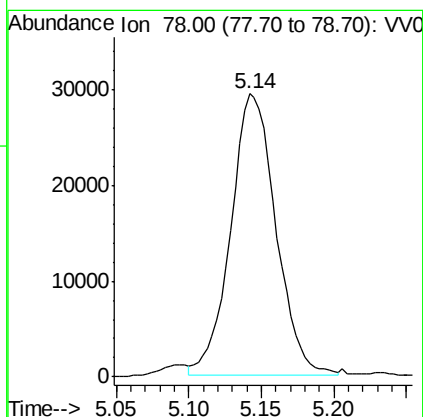
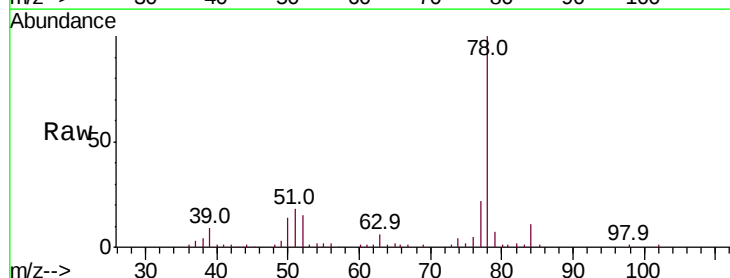
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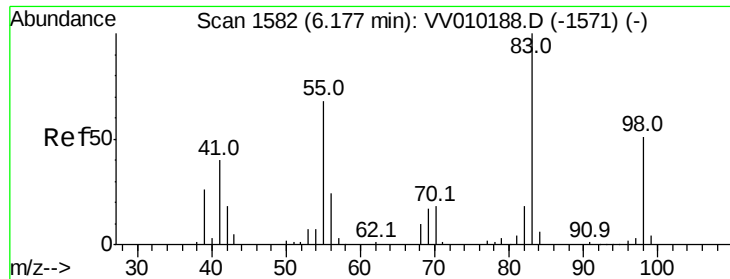
Tot Ion: 56 Resp: 83080
Ion Ratio Lower Upper
56 100
69 25.6 25.1 37.7
84 81.0 76.0 114.0



#34
Benzene
Concen: 5.446 ug/L
RT: 5.14 min Scan# 1260
Delta R.T. -0.01 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

Tgt Ion: 78 Resp: 63760

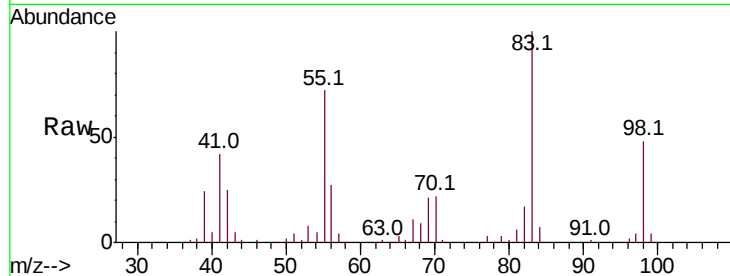




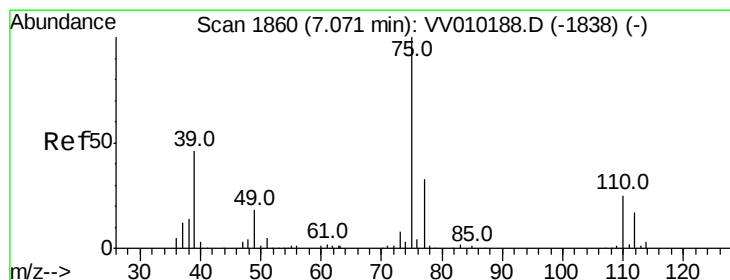
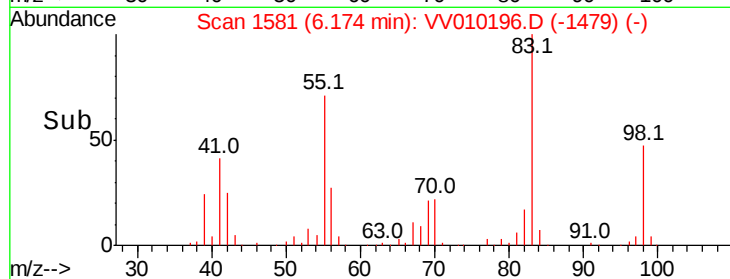
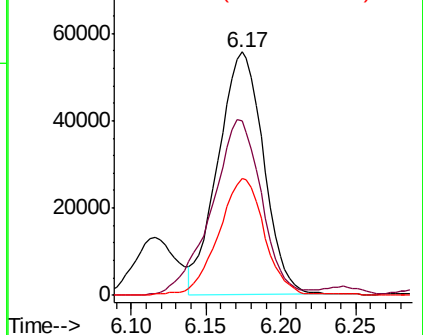
#36
Methylcyclohexane
Concen: 23.349 ug/L
RT: 6.17 min Scan# 1581
Delta R.T. -0.00 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

Instrument :
MSVOA_V
ClientSampled :
BFC29

Tot Ion: 83 Resp: 117871
Ion Ratio Lower Upper
83 100
55 79.0 56.3 84.5
98 48.6 39.0 58.6

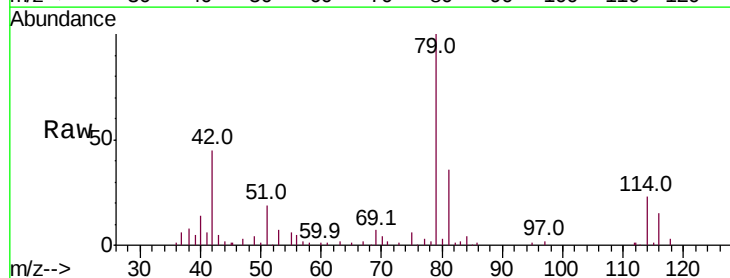


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

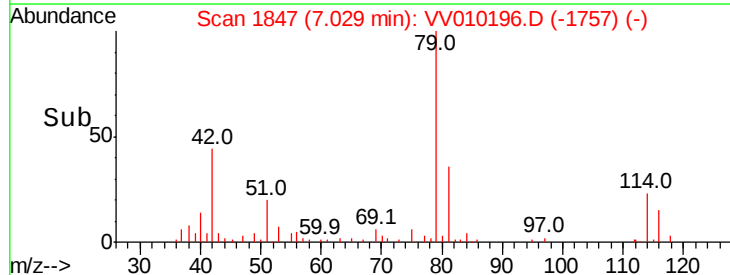
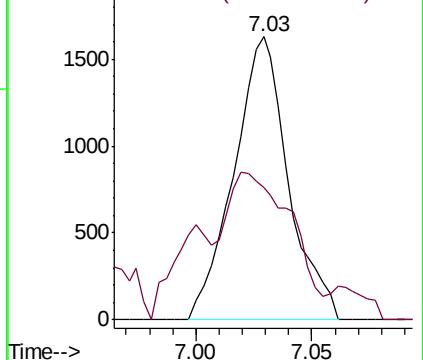


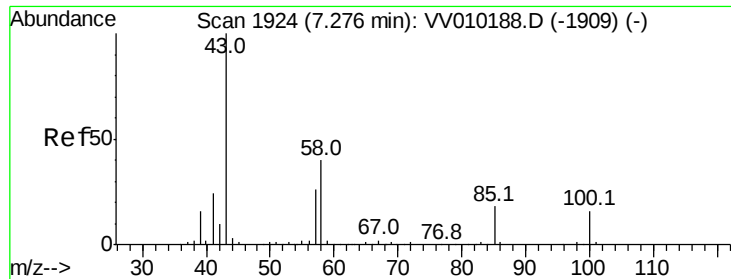
#42
cis-1,3-Dichloropropene
Concen: 0.622 ug/L
RT: 7.03 min Scan# 1847
Delta R.T. -0.04 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

Tgt Ion: 75 Resp: 2663
Ion Ratio Lower Upper
75 100
77 46.9 22.1 41.1#



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 77.00 (76.70 to 77.70): VV0

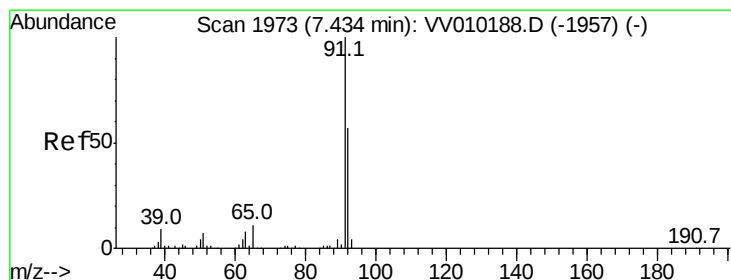
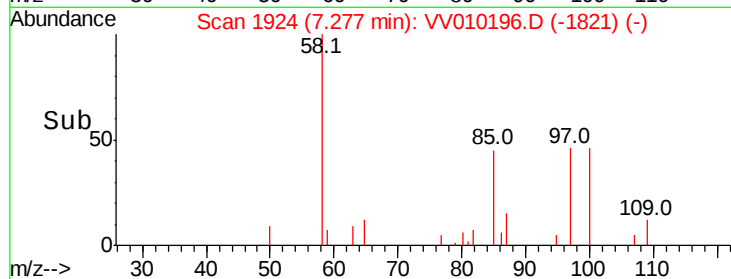
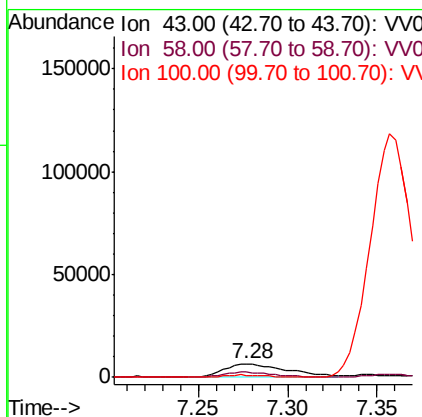
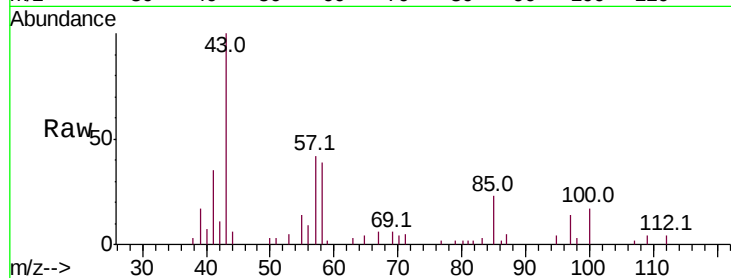




#43
4-Methyl-2-pentanone
Concen: 6.858 ug/L
RT: 7.28 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

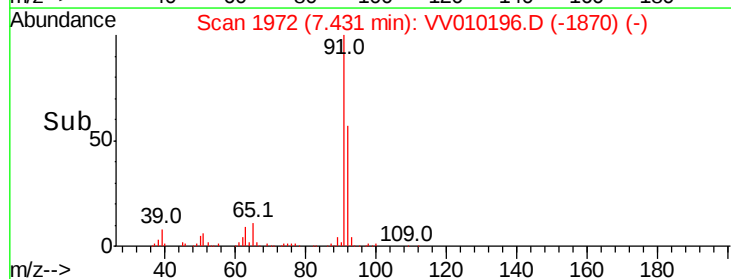
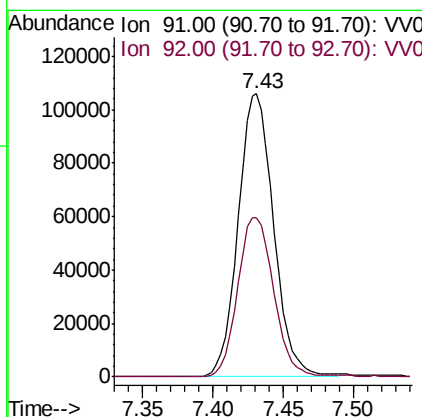
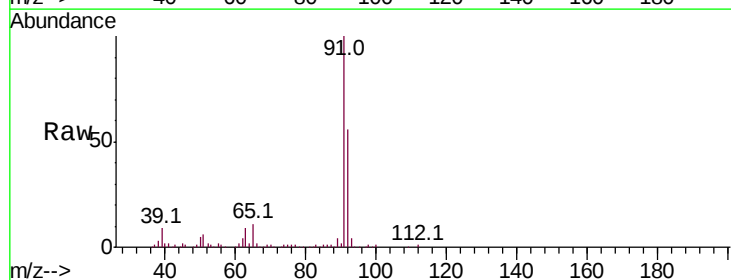
Instrument :
MSVOA_V
ClientSampled :
BFC29

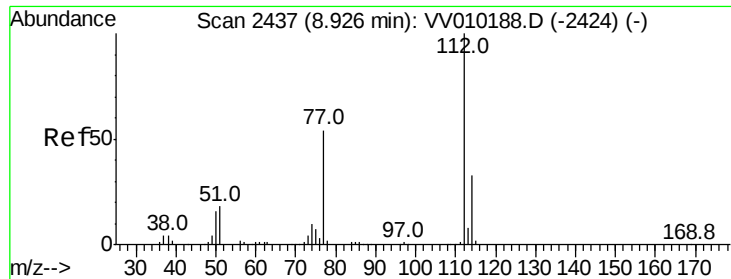
Tot Ion: 43 Resp: 15009
Ion Ratio Lower Upper
43 100
58 34.7 31.5 47.3
100 12.3 13.4 20.0#



#44
Toluene
Concen: 14.214 ug/L
RT: 7.43 min Scan# 1972
Delta R.T. -0.00 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

Tgt Ion: 91 Resp: 186767
Ion Ratio Lower Upper
91 100
92 56.5 41.0 76.2

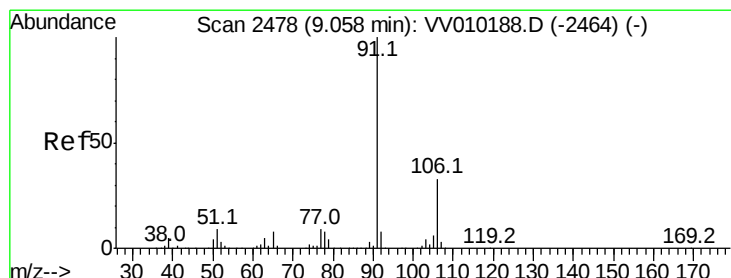
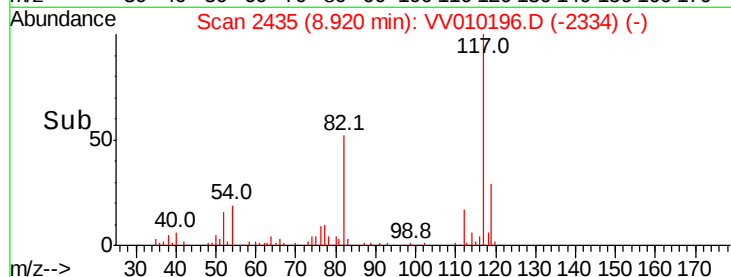
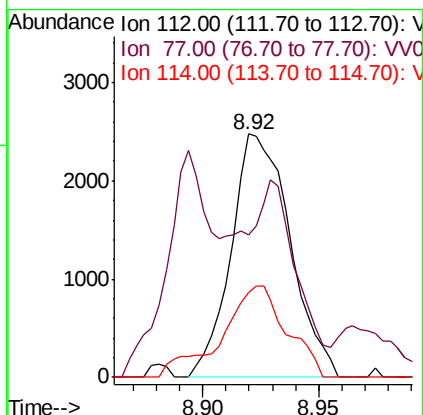
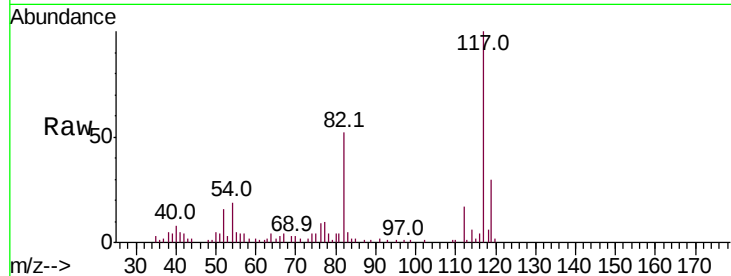




#52
Chlorobenzene
Concen: 0.488 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. -0.01 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

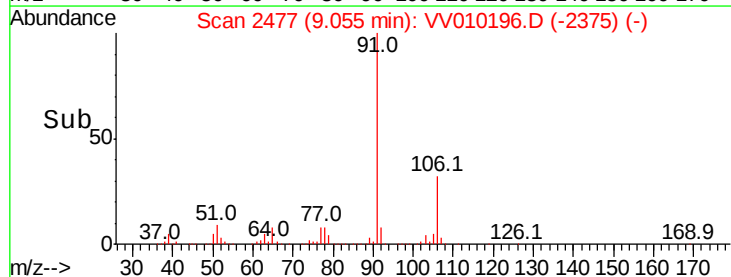
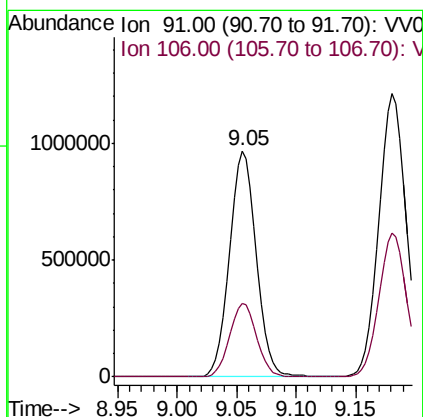
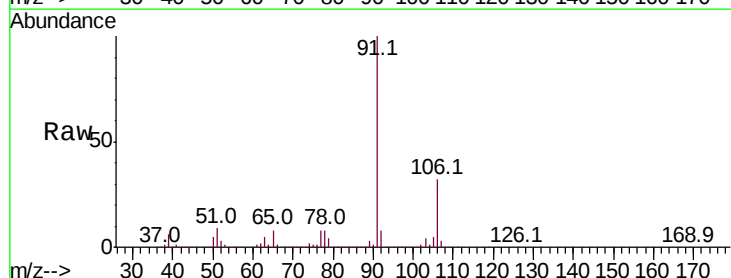
Instrument :
MSVOA_V
ClientSampled :
BFC29

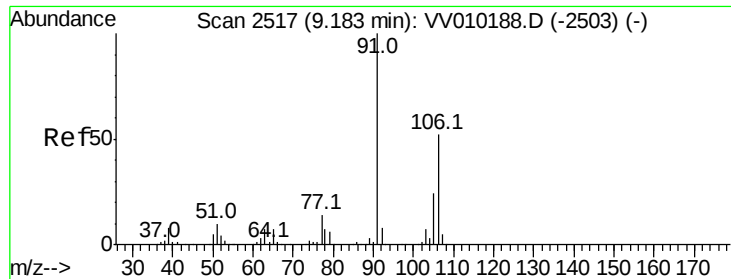
Tot Ion:112 Resp: 4378
Ion Ratio Lower Upper
112 100
77 58.6 42.9 64.3
114 35.0 23.4 43.4



#53
Ethylbenzene
Concen: 104.820 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

Tgt Ion: 91 Resp: 1510240
Ion Ratio Lower Upper
91 100
106 32.2 23.1 42.9





#54

m,p-Xylene

Concen: 178.265 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV010196.D

Acq: 09 Apr 2019 01:29

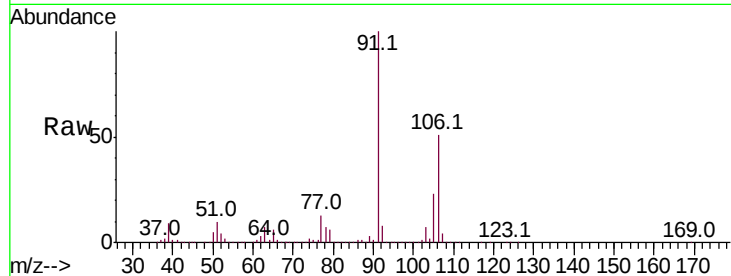
Instrument :
MSVOA_V
ClientSampleId :
BFC29

Tot Ion:106 Resp: 999689

Ion Ratio Lower Upper

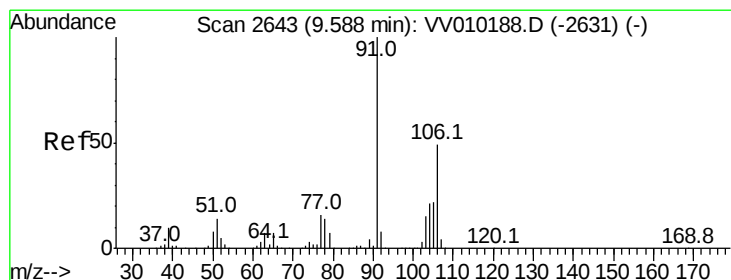
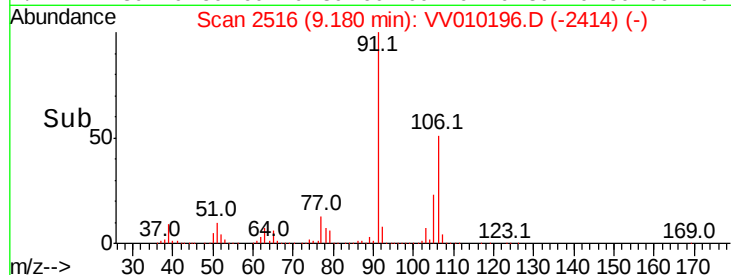
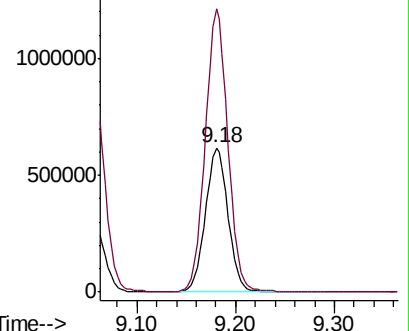
106 100

91 196.6 139.3 258.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#55

o-xylene

Concen: 73.258 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV010196.D

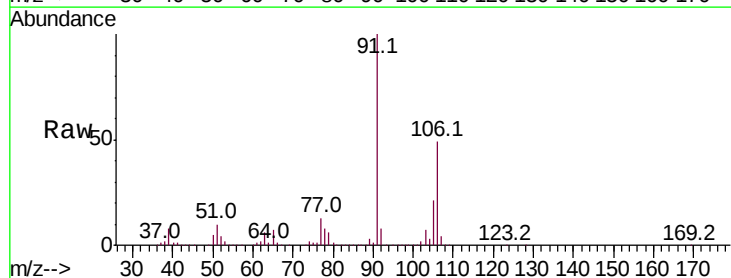
Acq: 09 Apr 2019 01:29

Tgt Ion:106 Resp: 398008

Ion Ratio Lower Upper

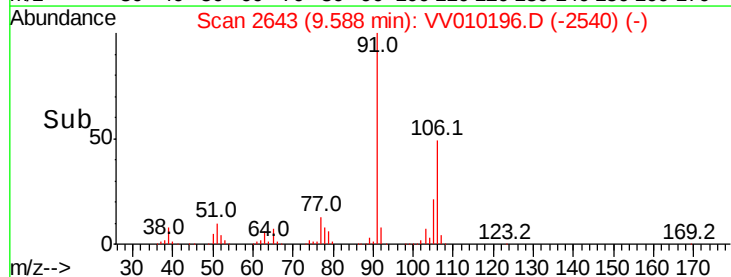
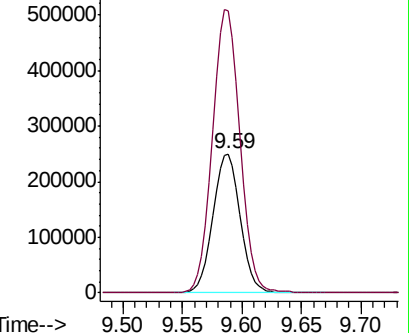
106 100

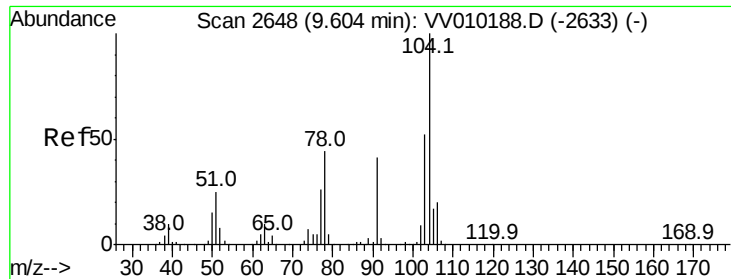
91 203.1 150.4 279.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#56

Stvrene

Concen: 2.915 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.02 min

Lab File: VV010196.D

Acq: 09 Apr 2019 01:29

Instrument :

MSVOA_V

ClientSampleId :

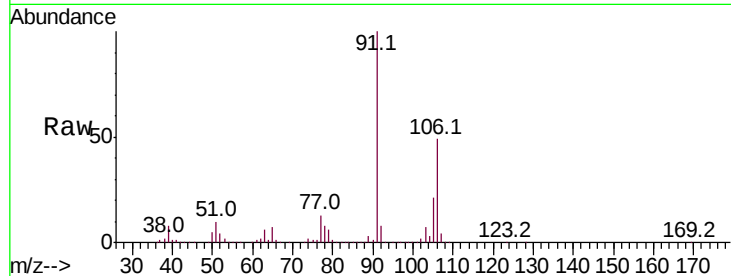
BFC29

Tot Ion:104 Resp: 26195

Ion Ratio Lower Upper

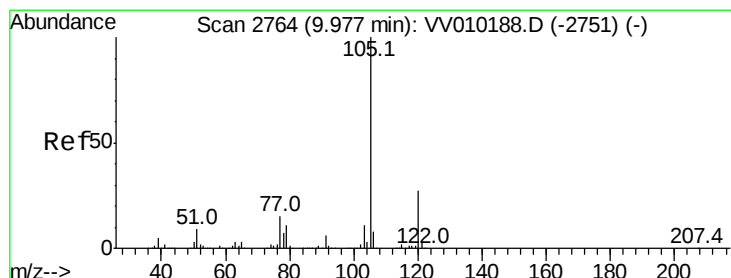
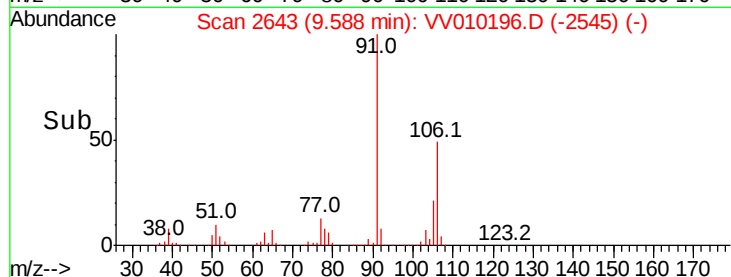
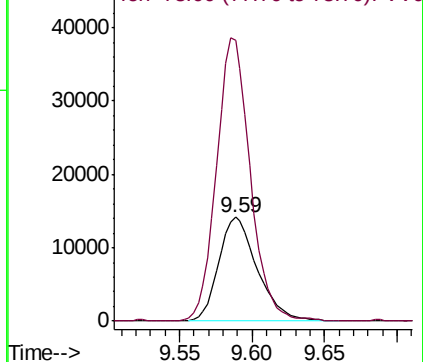
104 100

78 269.7 30.5 56.7#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#57

Isopropylbenzene

Concen: 20.857 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV010196.D

Acq: 09 Apr 2019 01:29

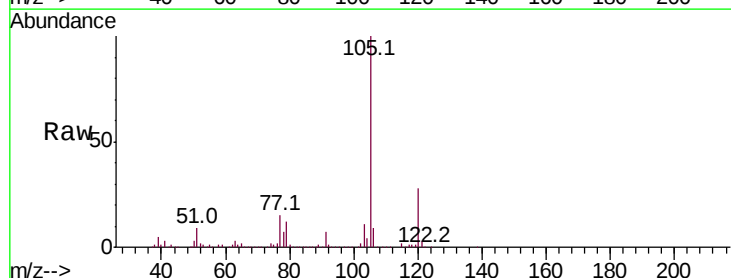
Tgt Ion:105 Resp: 298837

Ion Ratio Lower Upper

105 100

120 27.4 21.5 32.3

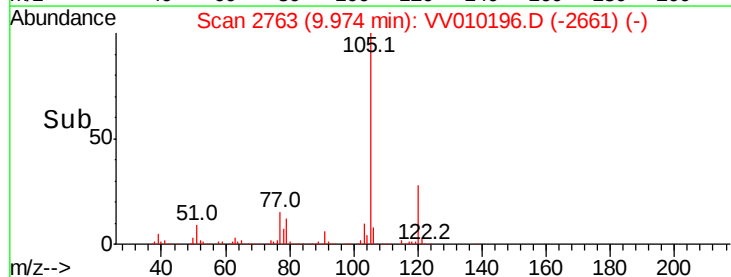
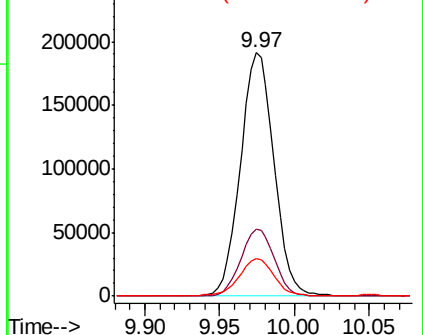
77 16.2 12.4 18.6

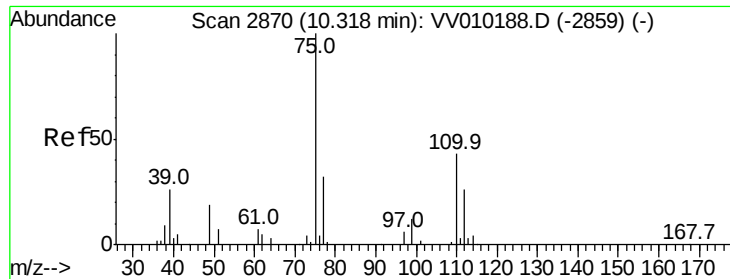


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#59

1,2,3-Trichloropropane

Concen: 3.000 ug/L

RT: 10.40 min Scan# 2894

Delta R.T. 0.08 min

Lab File: VV010196.D

Acq: 09 Apr 2019 01:29

Instrument :

MSVOA_V

ClientSampleId :

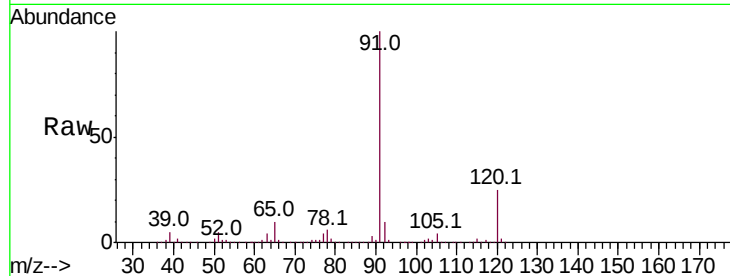
BFC29

Tot Ion: 75 Resp: 7246

Ion Ratio Lower Upper

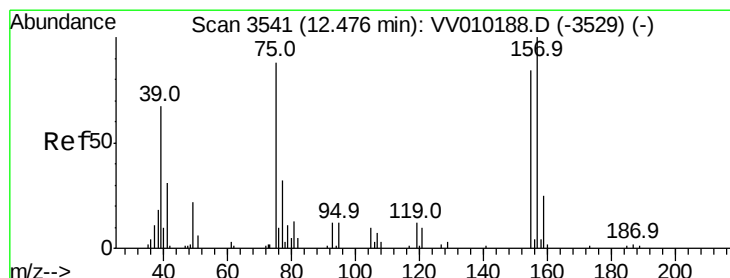
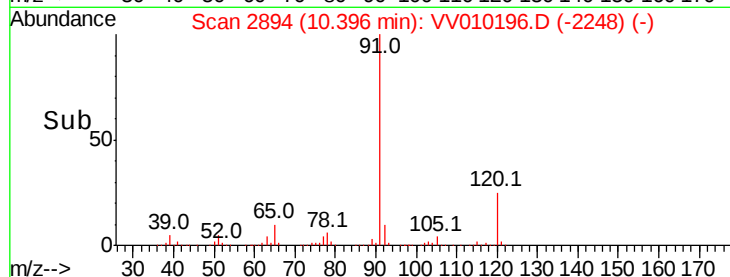
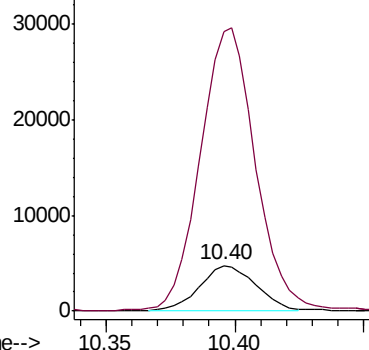
75 100

77 612.2 25.8 38.8#



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#66

1,2-Dibromo-3-chloropropane

Concen: 17.687 ug/L

RT: 12.46 min Scan# 3536

Delta R.T. -0.02 min

Lab File: VV010196.D

Acq: 09 Apr 2019 01:29

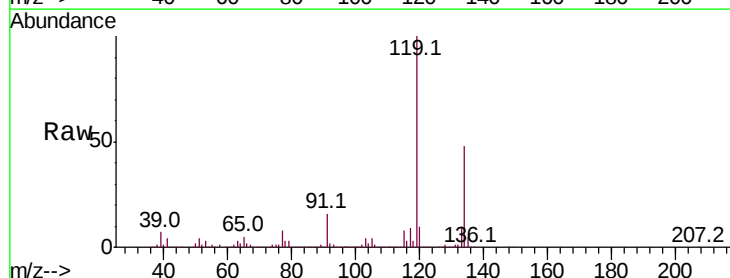
Tgt Ion: 75 Resp: 4916

Ion Ratio Lower Upper

75 100

157 0.0 83.0 124.6#

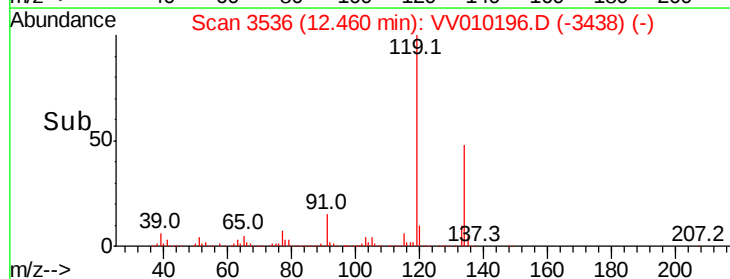
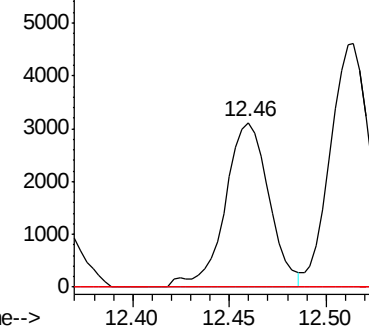
155 0.0 68.1 102.1#

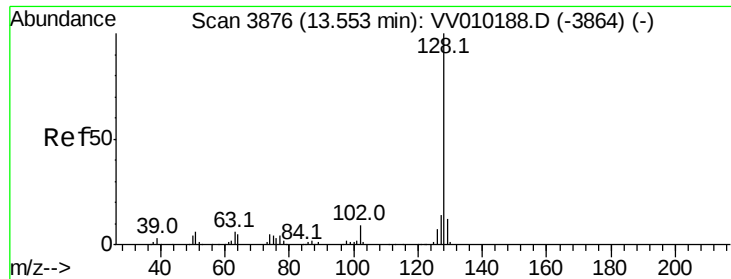


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V





#69

Naphthalene

Concen: 82.152 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. -0.00 min

Lab File: VV010196.D

Acq: 09 Apr 2019 01:29

Instrument :

MSVOA_V

ClientSampleId :

BFC29

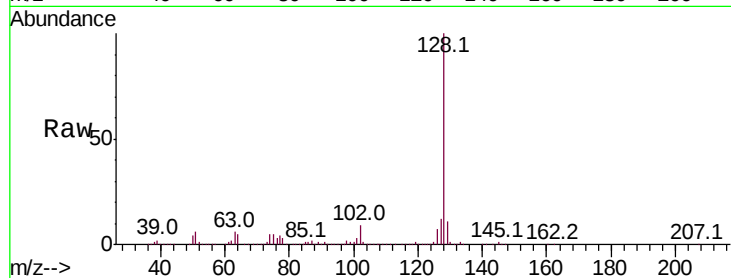
Tot Ion:128 Resp: 324320

Ion Ratio Lower Upper

128 100

129 11.0 9.0 13.4

127 13.0 11.0 16.4



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

