

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

Manual Integrations
 APPROVED

MMDadoda
 4/15/2019 12:28:33 AM

Quant Time: Apr 09 08:17:31 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

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
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
21) 2-Butanone	4.03	43	9680m	7.485	ug/L	
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
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
55) o-xylene	9.59	106	398008	73.258	ug/L	93
57) Isopropylbenzene	9.97	105	298837	20.857	ug/L	99

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APPROVED

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4/15/2019 12:28:33 AM

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

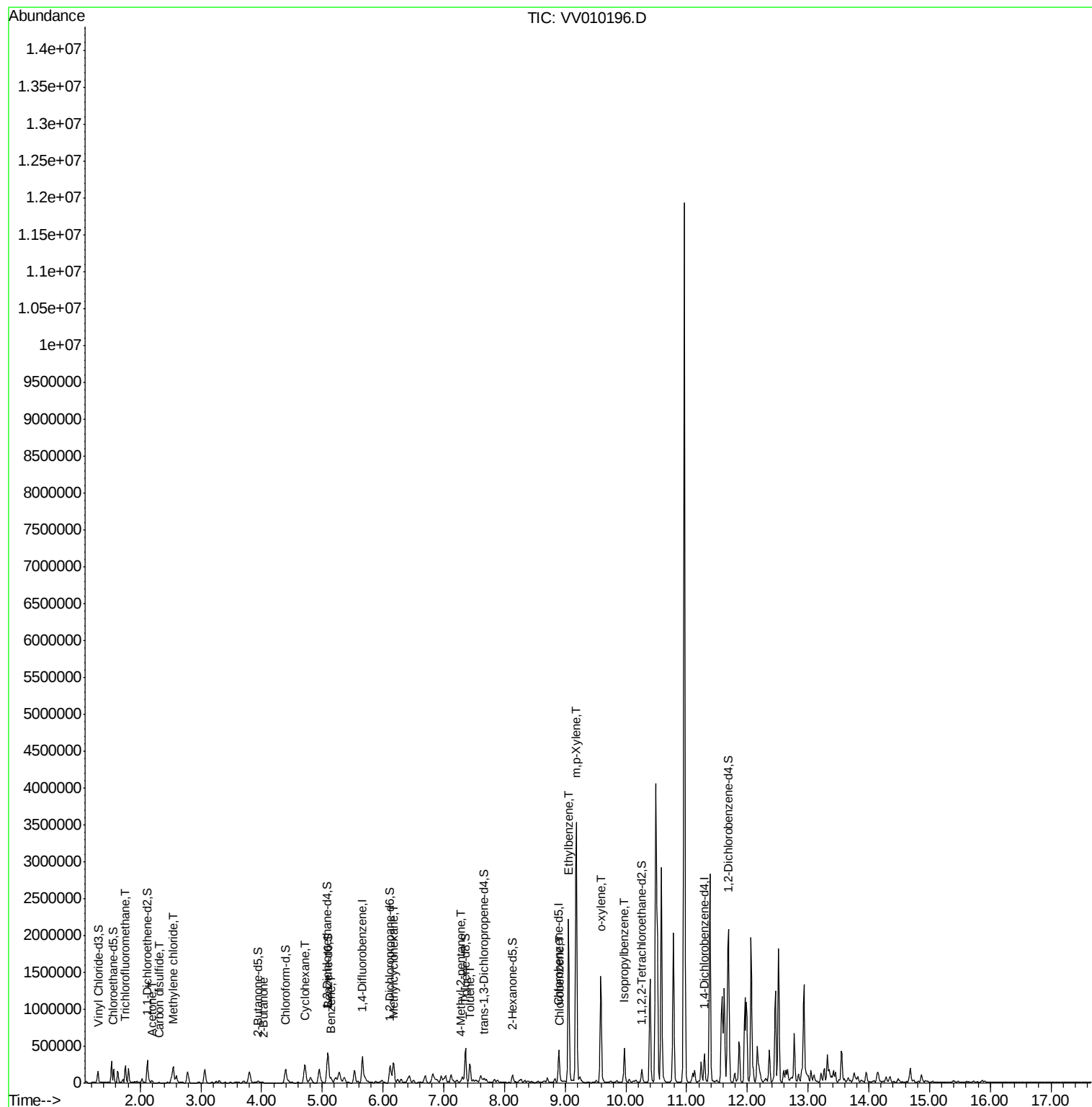
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV040819\
Data File : VV010196.D
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Operator : SY/MD
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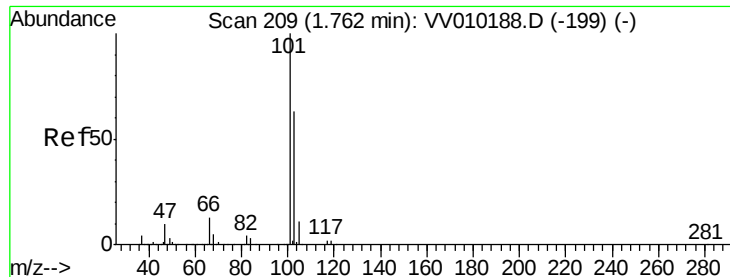
Instrument :
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#9

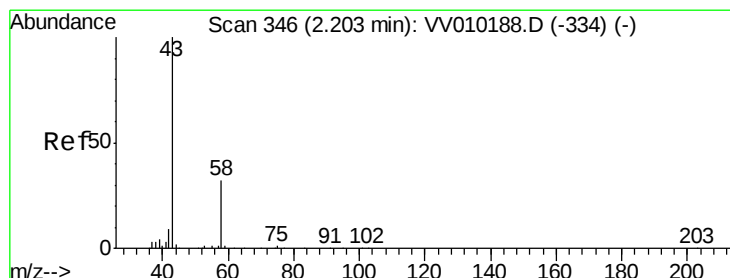
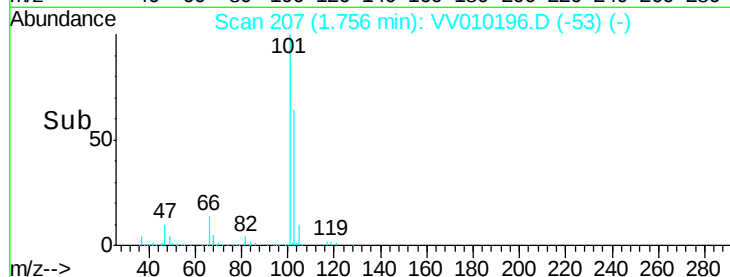
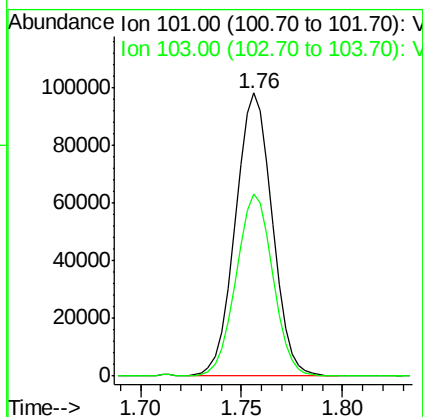
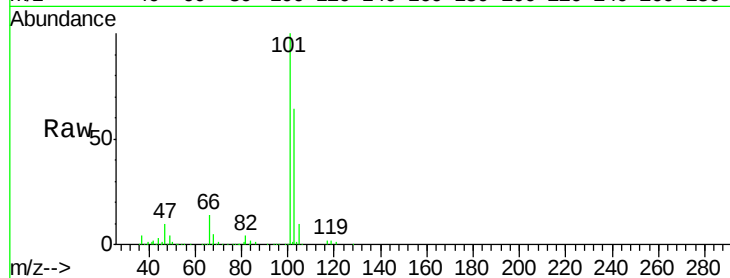
Trichlorofluoromethane
 Concen: 13.806 ug/L
 RT: 1.76 min Scan# 207
 Delta R.T. -0.01 min
 Lab File: VV010196.D
 Acq: 09 Apr 2019 01:29

Instrument :
 MSVOA_V
 ClientSampleId :
 BFC29

Tot Ion	Ratio	Resp	Lower	Upper
101	100	125251		
103	64.4	46.1	85.5	

Manual Integrations
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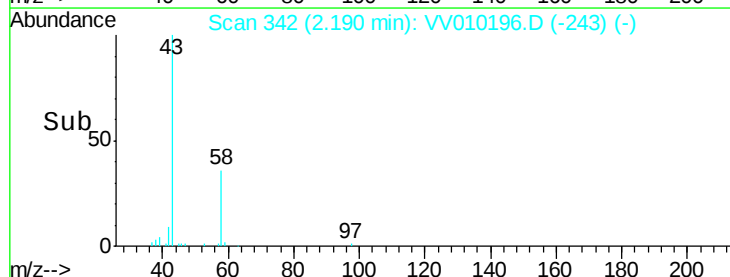
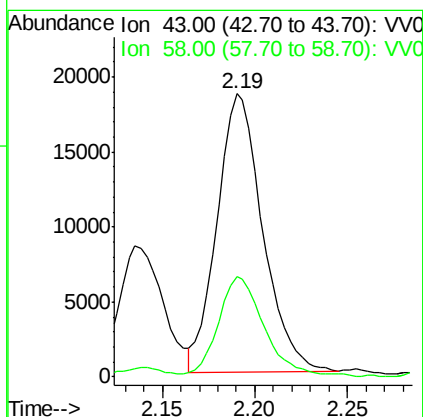
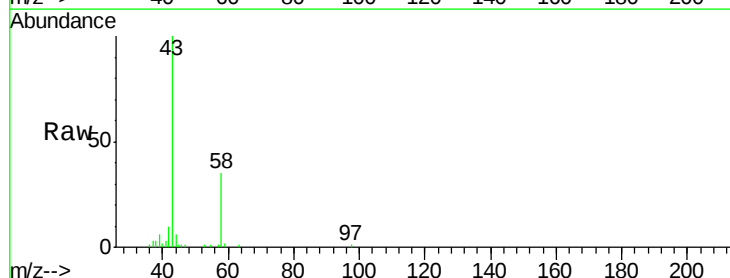
MMDadoda
 4/15/2019 12:28:33 AM

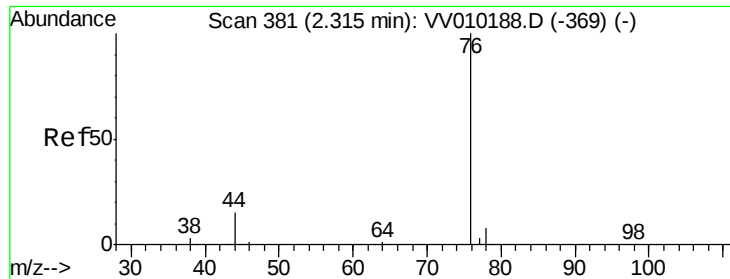


#13

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

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	31562		
58	34.4	0.0	64.6	





#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

Instrument :

MSVOA_V

ClientSampleId :

BFC29

Tot Ion: 76 Resp: 7711

Ion Ratio Lower Upper

76 100

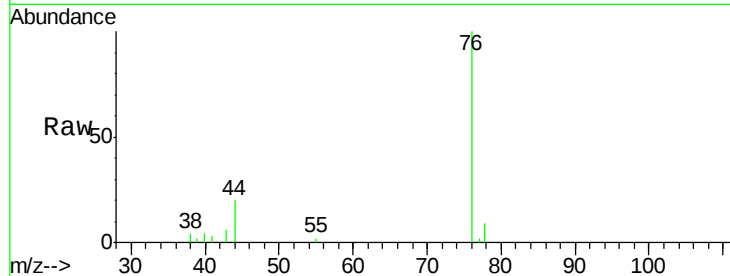
78 8.8 7.1 10.7

Manual Integrations

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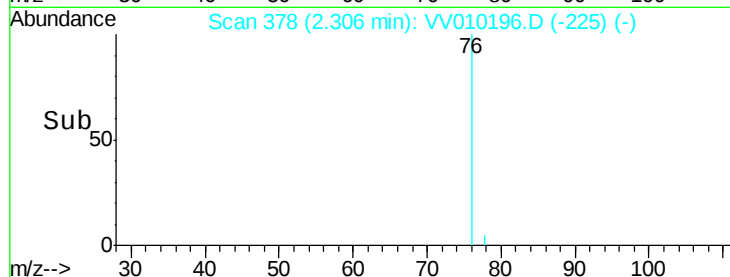


Abundance Ion 76.00 (75.70 to 76.70): VV010188.D (-369) (-)

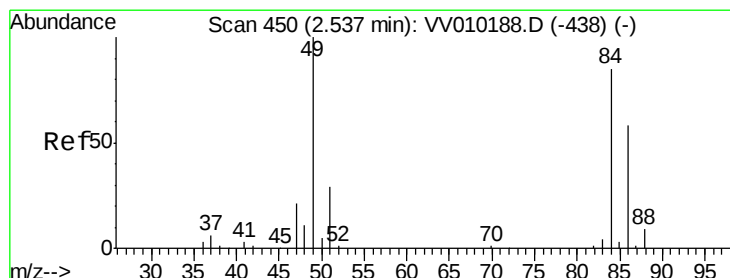
Ion 78.00 (77.70 to 78.70): VV010188.D (-369) (-)

2.31

Time-->



Time-->



#16

Methylene 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

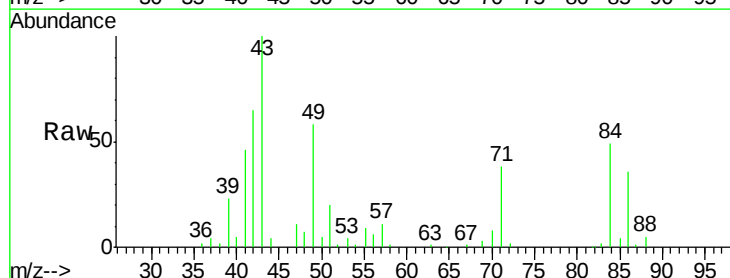
Tgt Ion: 84 Resp: 22395

Ion Ratio Lower Upper

84 100

49 117.3 84.3 156.5

86 72.8 45.4 84.2



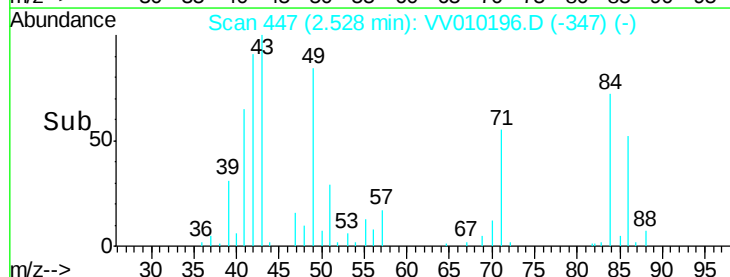
Abundance Ion 84.00 (83.70 to 84.70): VV010188.D (-438) (-)

Ion 49.00 (48.70 to 49.70): VV010188.D (-438) (-)

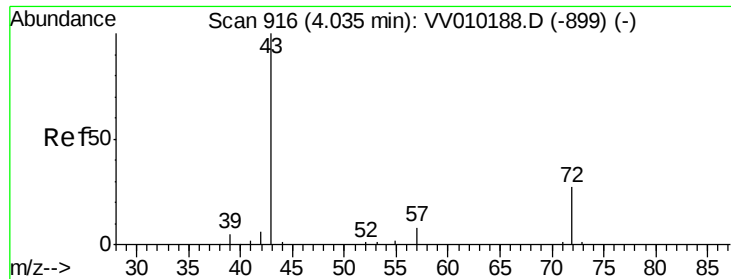
Ion 86.00 (85.70 to 86.70): VV010188.D (-438) (-)

2.53

Time-->



Time-->



#21

2-Butanone

Concen: 7.485 ug/L m

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

ClientSampleId :

BFC29

Tot Ion: 43 Resp: 9680

Ion Ratio Lower Upper

43 100

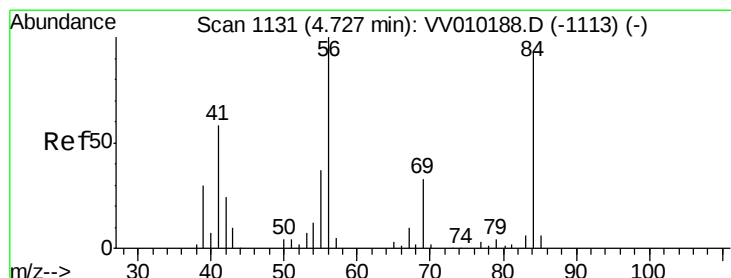
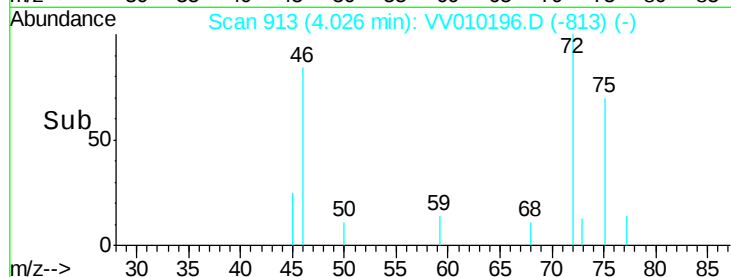
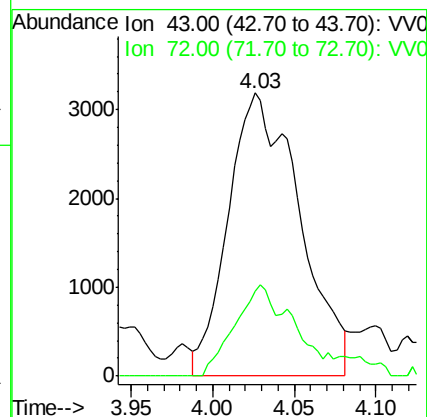
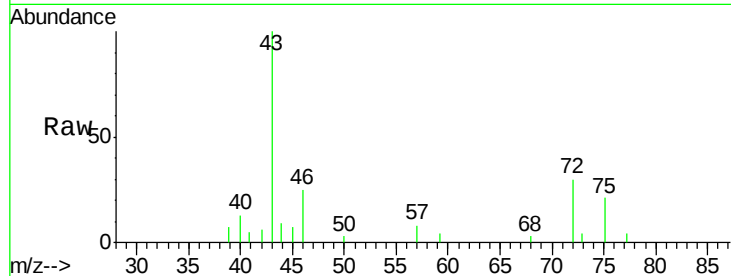
72 17.5 12.8 38.4

Manual Integrations

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#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

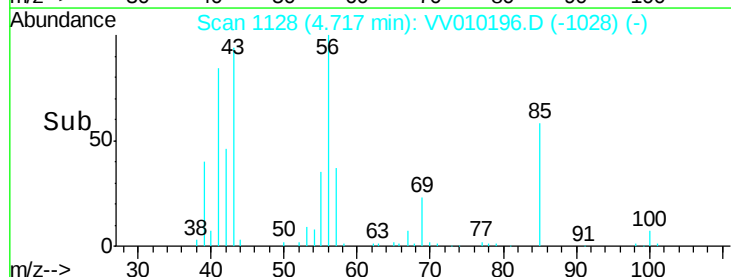
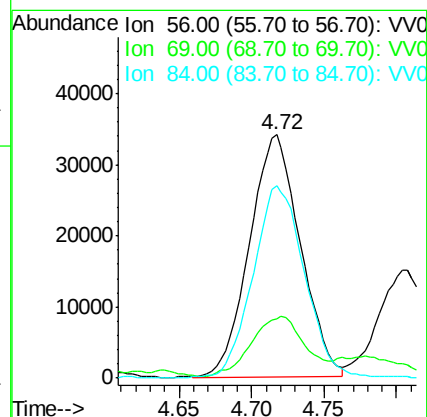
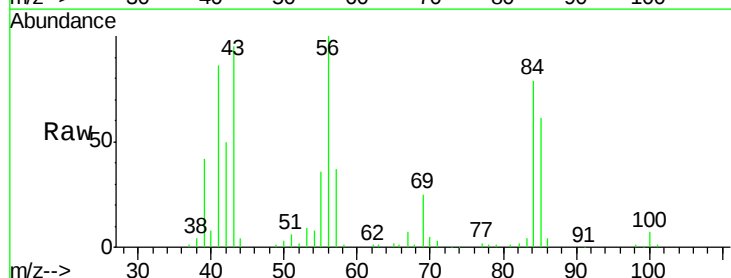
Tgt Ion: 56 Resp: 83080

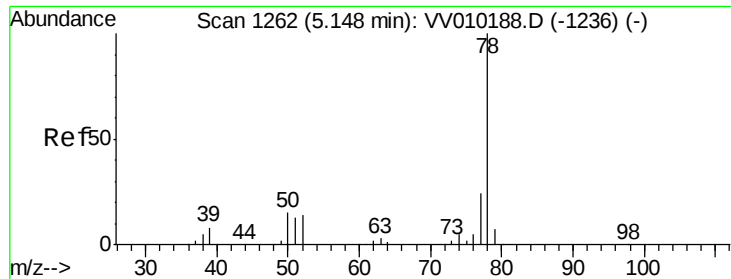
Ion Ratio Lower Upper

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

Instrument :

MSVOA_V

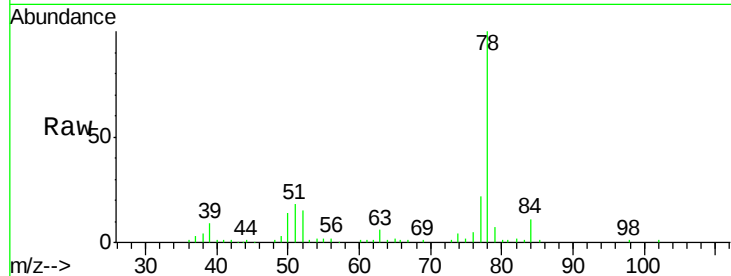
ClientSampleId :

BFC29

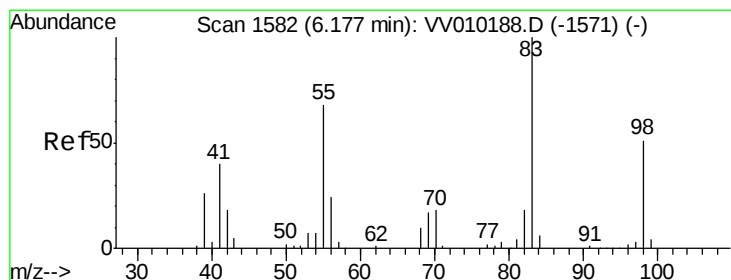
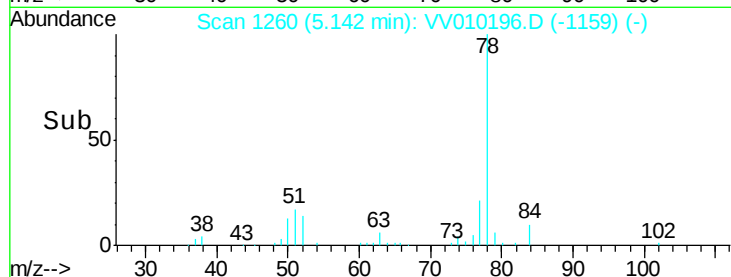
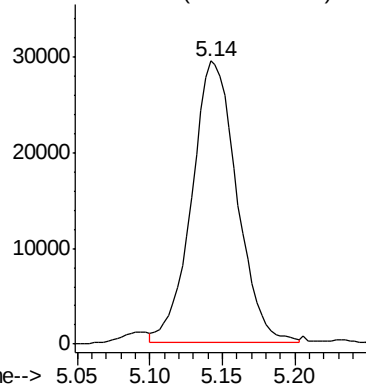
Tgt Ion: 78 Resp: 63760

Manual Integrations
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Abundance Ion 78.00 (77.70 to 78.70): VV0



#36

Methylcyclohexane

Concen: 23.349 ug/L

RT: 6.17 min Scan# 1581

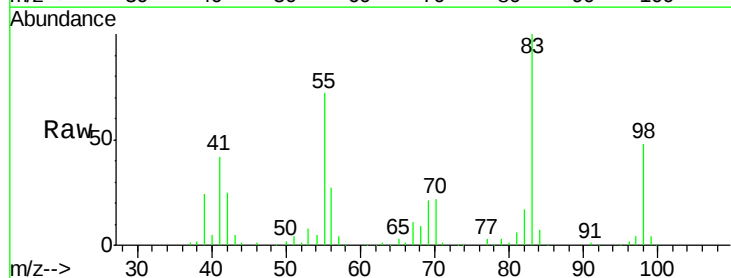
Delta R.T. -0.00 min

Lab File: VV010196.D

Acq: 09 Apr 2019 01:29

Tgt Ion: 83 Resp: 117871

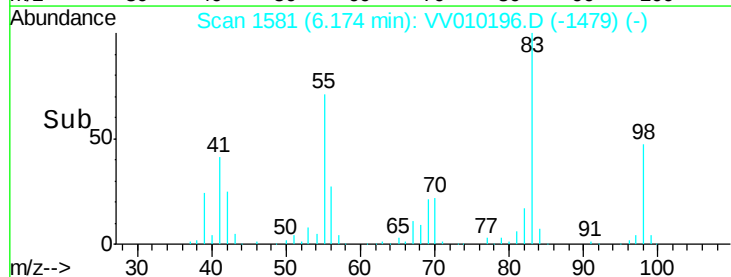
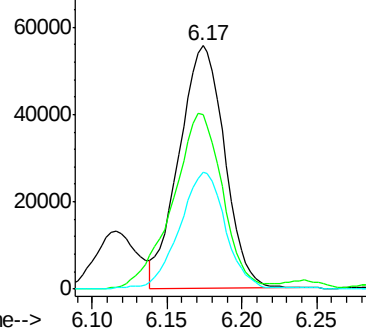
Ion	Ratio	Lower	Upper
83	100		
55	79.0	56.3	84.5
98	48.6	39.0	58.6

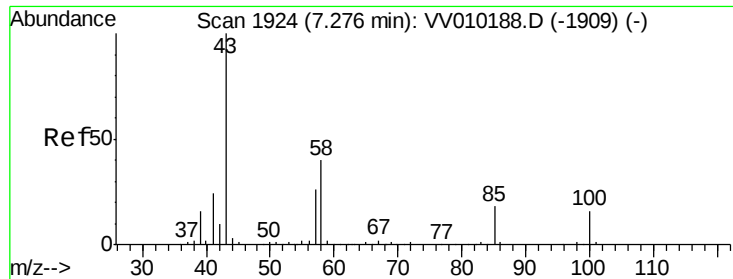


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





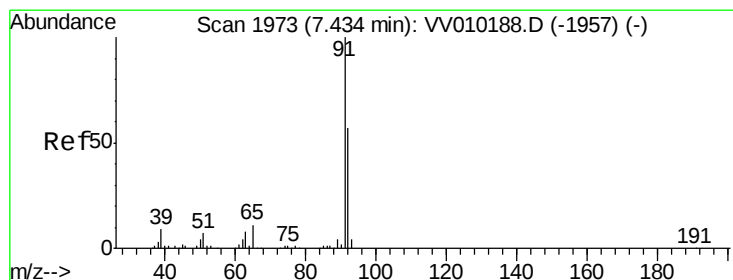
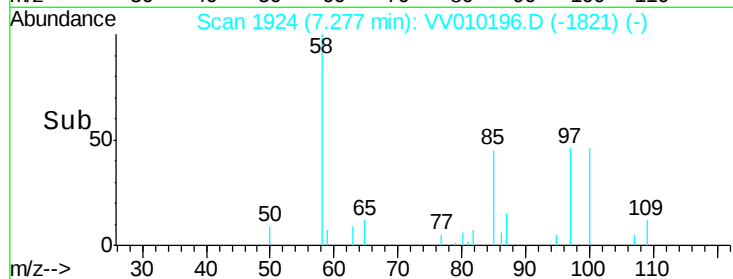
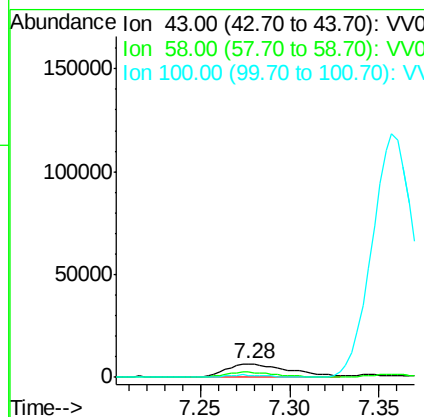
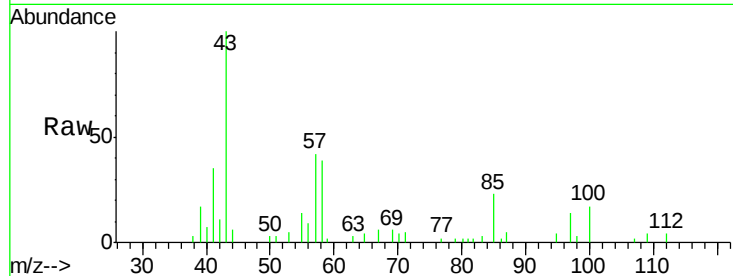
#43
4-Methyl-2-pentanone
Concen: 6.858 ug/L
RT: 7.28 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

Instrument :
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Tot Ion	Ratio	Lower	Upper
43	100		
58	34.7	31.5	47.3
100	12.3	13.4	20.0

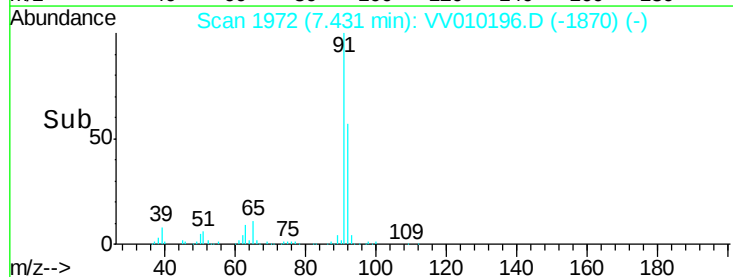
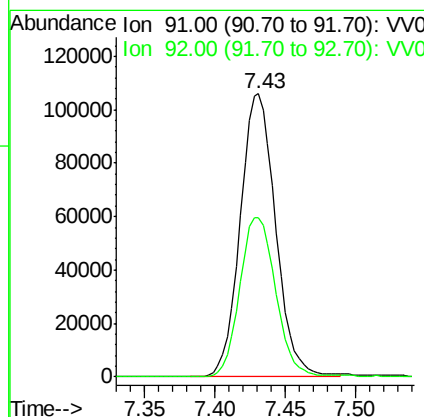
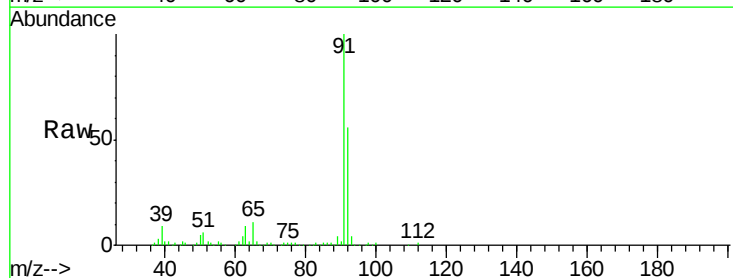
Manual Integrations
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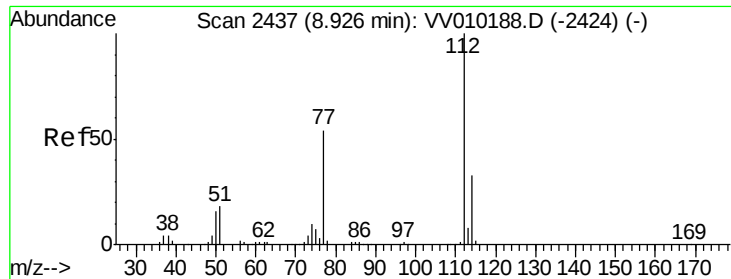
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#44
Toluene
Concen: 14.214 ug/L
RT: 7.43 min Scan# 1972
Delta R.T. -0.00 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.5	41.0	76.2





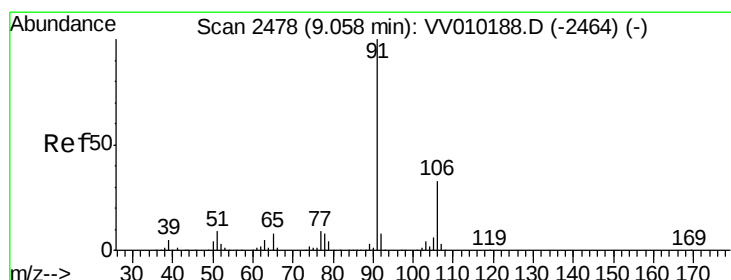
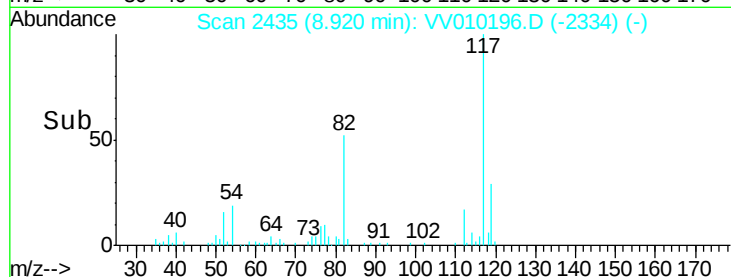
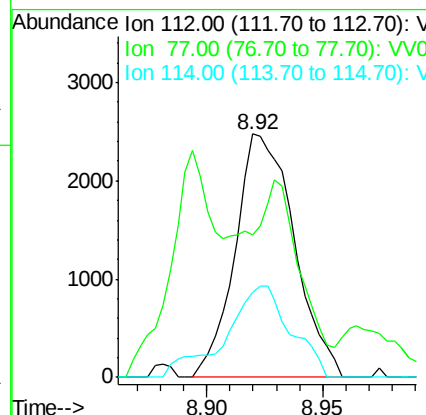
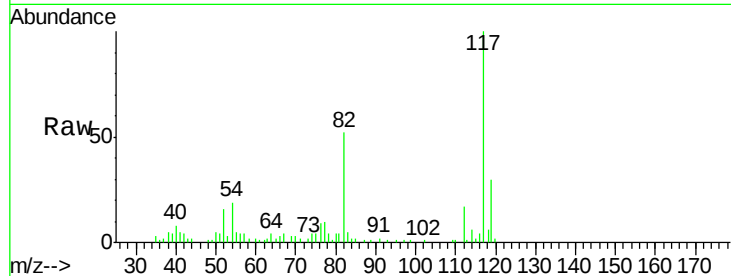
#52
Chlorobenzene
Concen: 0.488 ug/L
RT: 8.92 min Scan# 2435
Delta R.T. -0.01 min
Lab File: VV010196.D
Acq: 09 Apr 2019 01:29

Instrument :
MSVOA_V
ClientSampleId :
BFC29

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

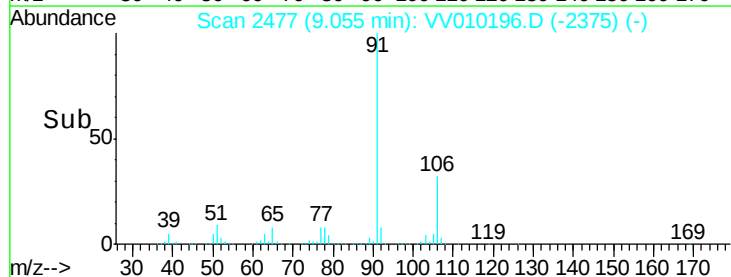
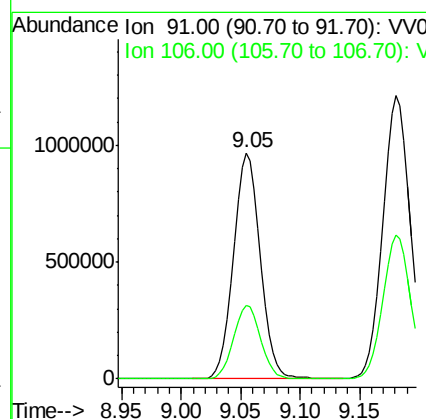
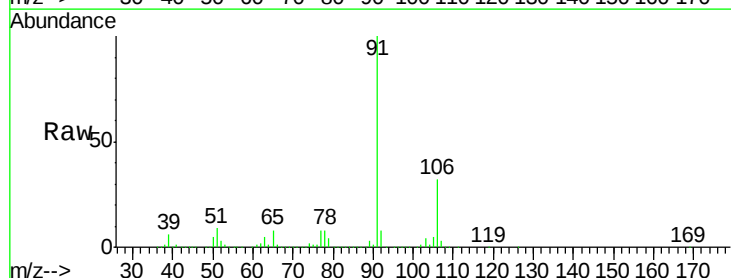
Manual Integrations
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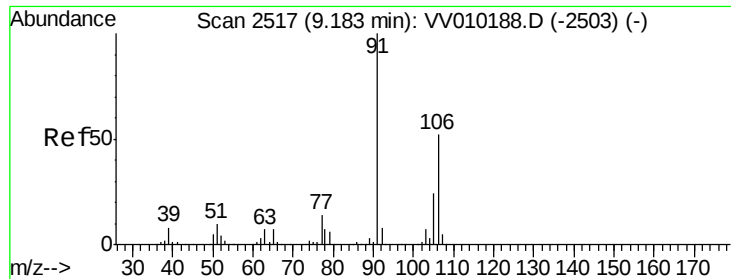
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4/15/2019 12:28:33 AM



#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	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

ClientSampled :

BFC29

Tot Ion:106 Resp: 999689

Ion Ratio Lower Upper

106 100

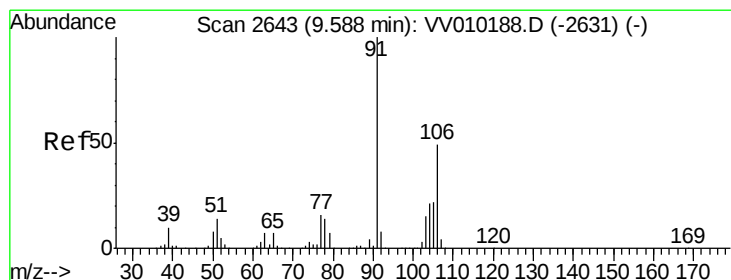
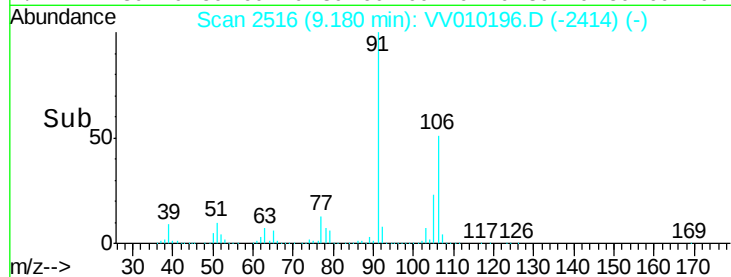
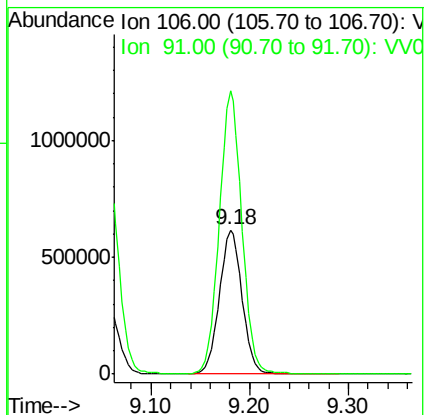
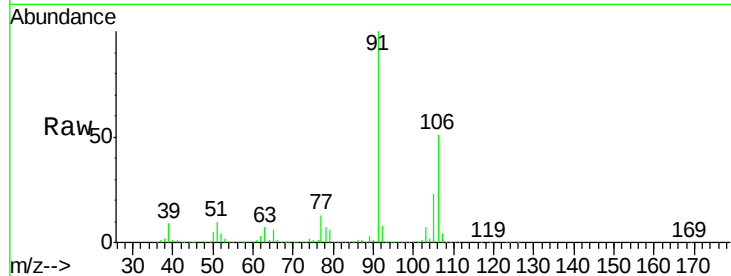
91 196.6 139.3 258.7

Manual Integrations

APPROVED

MMDadoda

4/15/2019 12:28:33 AM



#55

o-xylene

Concen: 73.258 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV010196.D

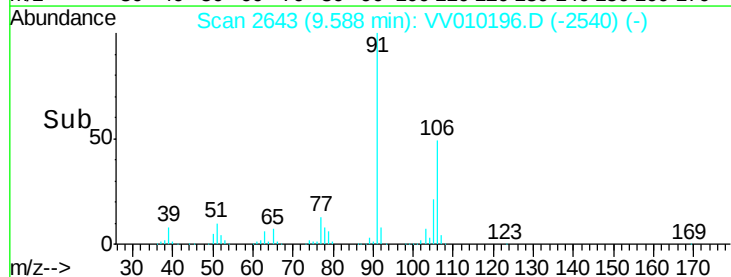
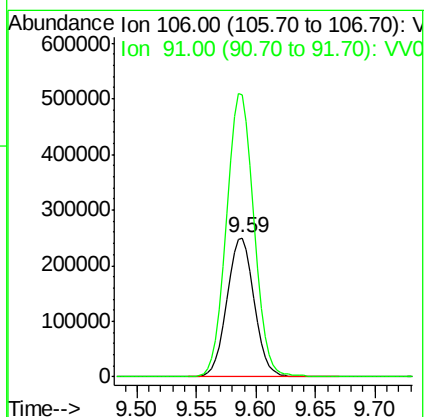
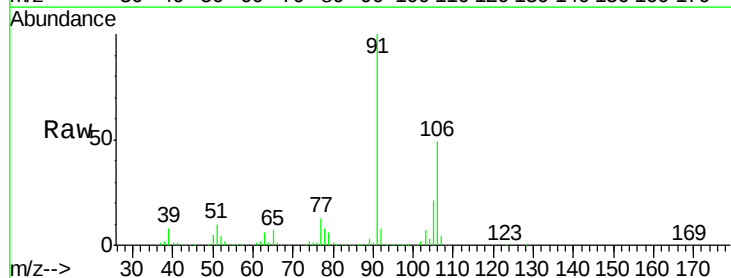
Acq: 09 Apr 2019 01:29

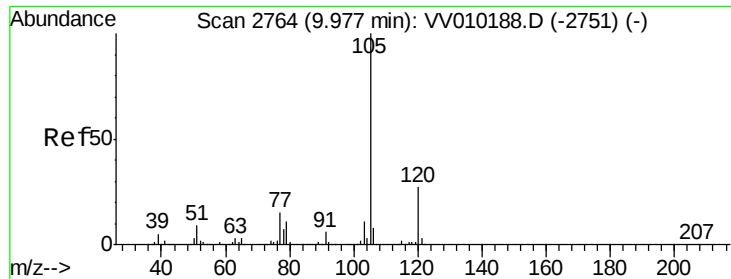
Tgt Ion:106 Resp: 398008

Ion Ratio Lower Upper

106 100

91 203.1 150.4 279.2





#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

Instrument :

MSVOA_V

ClientSampleId :

BFC29

Tot Ion:	105	Resp:	298837
Ion Ratio		Lower	Upper
105	100		
120	27.4	21.5	32.3
77	16.2	12.4	18.6

Manual Integrations
APPROVED

MMDadoda
4/15/2019 12:28:33 AM

