

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR101618\
 Data File : VR026107.D
 Acq On : 16 Oct 2018 18:47
 Operator : SY/MD
 Sample : J5464-02
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 C0JD7

Quant Time: Oct 17 09:34:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR101518WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 17 08:49:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	588300	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.29	117	475767	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.22	152	168695	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.17	65	933907	18.14	ug/L	0.01
Spiked Amount	5.000	Range	40 - 130	Recovery	=	362.80%#
7) Chloroethane-d5	2.63	69	223211	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.80%
11) 1,1-Dichloroethene-d2	3.63	63	677683	5.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	107.20%
20) 2-Butanone-d5	6.64	46	235778	55.78	ug/L	0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.56%
24) Chloroform-d	7.20	84	388879	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
26) 1,2-Dichloroethane-d4	7.90	65	169602	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%
32) Benzene-d6	7.85	84	793916	5.19	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.80%
36) 1,2-Dichloropropane-d6	8.90	67	222493	5.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	112.80%
41) Toluene-d8	9.97	98	731259	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.20%
43) trans-1,3-Dichloropropene-	10.24	79	52961	5.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	102.40%
46) 2-Hexanone-d5	10.59	63	176322	58.98	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.96%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	78209	5.05	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.00%
64) 1,2-Dichlorobenzene-d4	13.51	152	134621	5.05	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	101.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	2.17	62	54013597	864.021	ug/L #	42
12) 1,1-Dichloroethene	3.63	96	372061	6.504	ug/L	94
13) Acetone	3.70	43	19630	4.492	ug/L	65
14) Carbon disulfide	3.94	76	19514	0.130	ug/L	99
17) Methyl tert-butyl Ether	4.88	73	12644	0.243	ug/L #	1
18) trans-1,2-Dichloroethene	4.88	96	665381	15.380	ug/L	95
22) cis-1,2-Dichloroethene	6.67	96	29433341	719.213	ug/L #	64
30) Cyclohexane	7.53	56	72169	1.106	ug/L #	91
33) Benzene	7.91	78	1670895	9.360	ug/L	100
34) Trichloroethene	8.71	95	7877070	172.393	ug/L	89
35) Methylcyclohexane	8.95	83	29883	0.439	ug/L #	78
42) Toluene	10.04	91	208839	1.108	ug/L	94
47) Tetrachloroethene	10.51	164	76572	2.347	ug/L	95
52) Ethylbenzene	11.39	91	56377	0.260	ug/L	97
53) m,p-Xylene	11.51	106	36771	0.466	ug/L	100
54) o-Xylene	11.83	106	193133	2.669	ug/L	99
56) Isopropylbenzene	12.13	105	39307	0.196	ug/L	96

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QLast Update : Wed Oct 17 08:49:24 2018
Response via : Initial Calibration

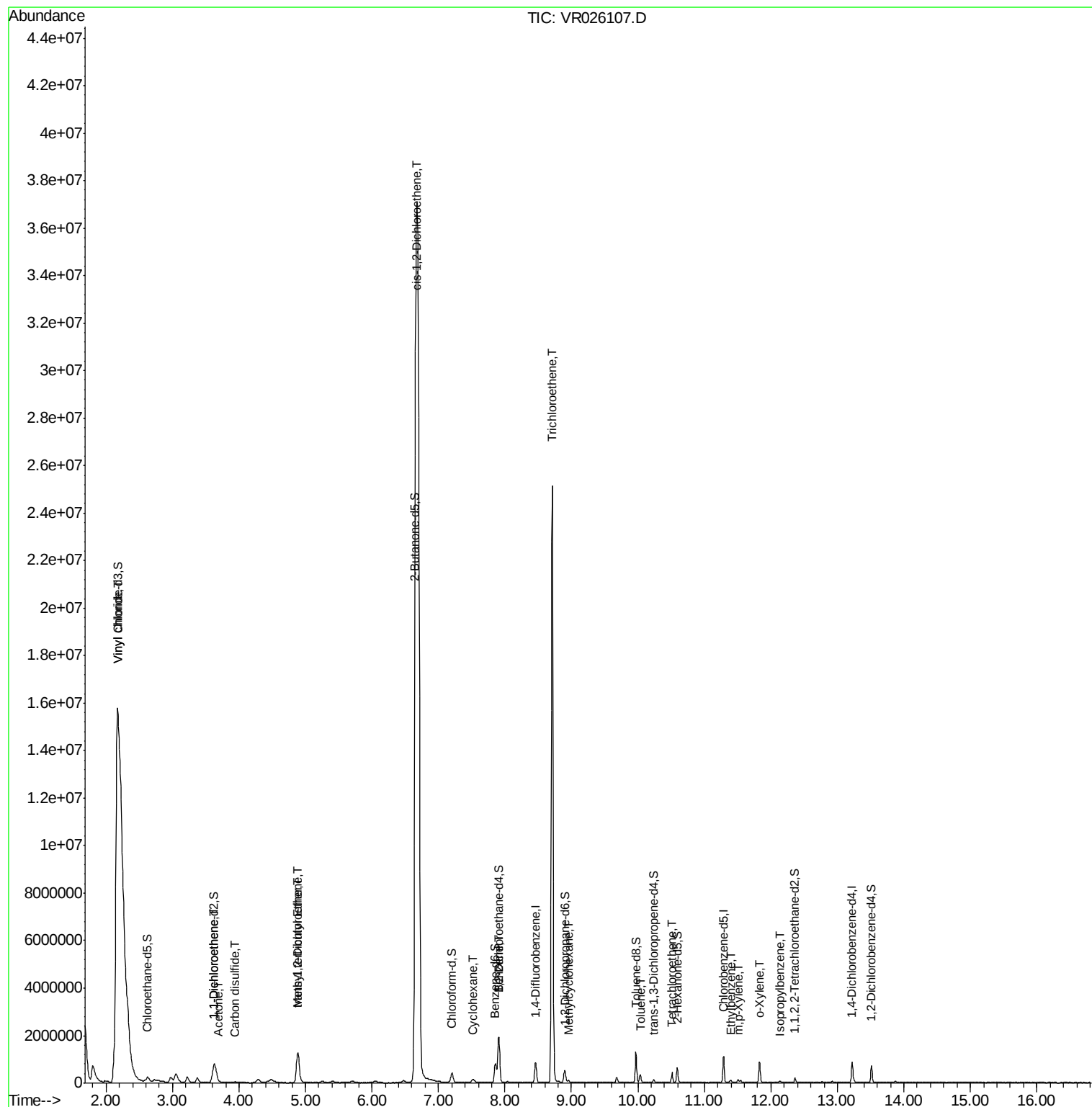
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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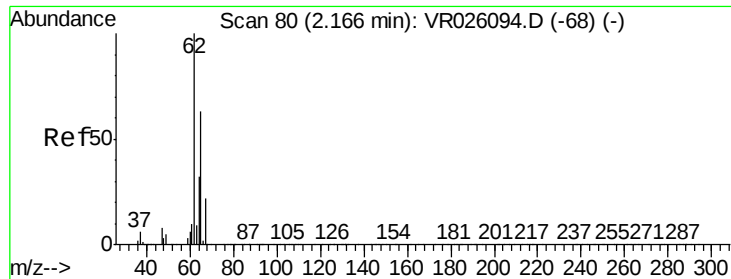
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 864.021 ug/L

RT: 2.17 min Scan# 81

Delta R.T. 0.01 min

Lab File: VR026107.D

Acq: 16 Oct 2018 18:47

Instrument :

MSVOA_R

ClientSampleId :

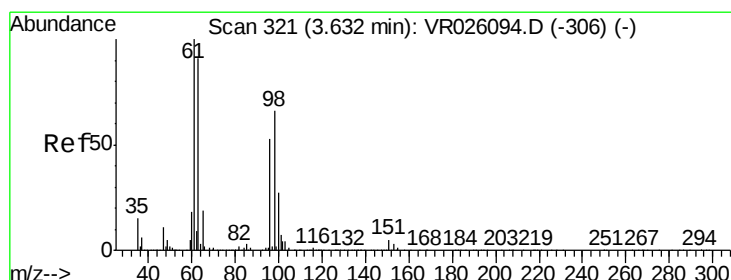
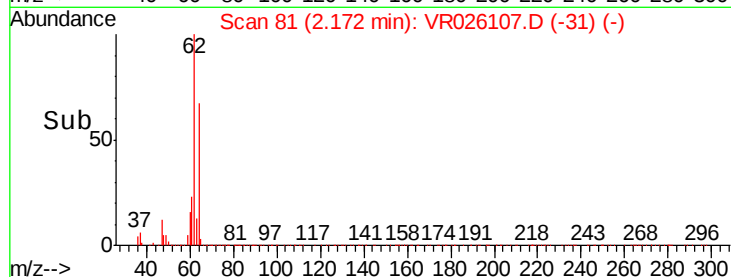
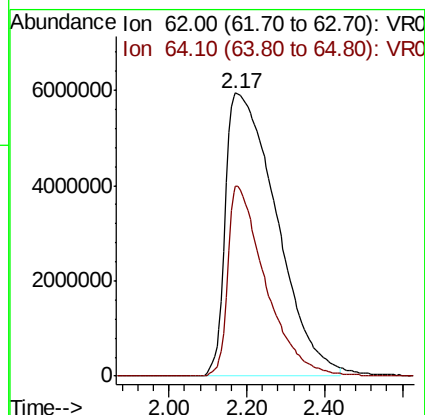
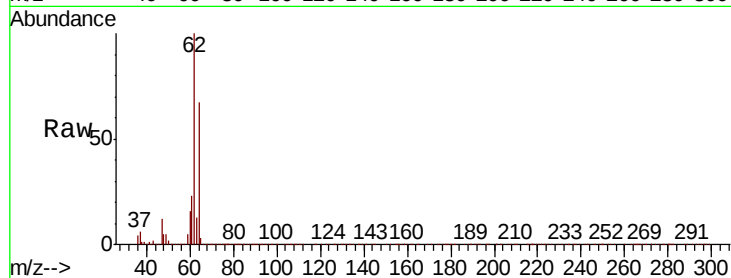
C0JD7

Tot Ion: 62 Resp: 54013597

Ion Ratio Lower Upper

62 100

64 67.2 23.9 44.3#



#12

1,1-Dichloroethene

Concen: 6.504 ug/L

RT: 3.63 min Scan# 321

Delta R.T. -0.00 min

Lab File: VR026107.D

Acq: 16 Oct 2018 18:47

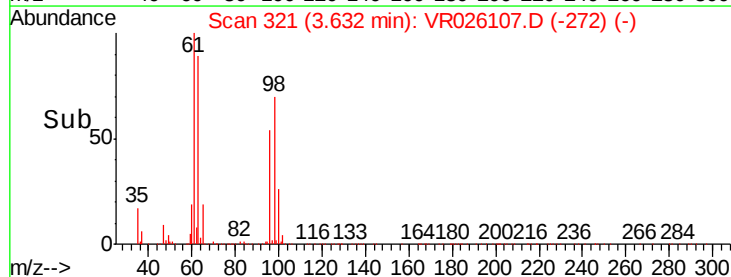
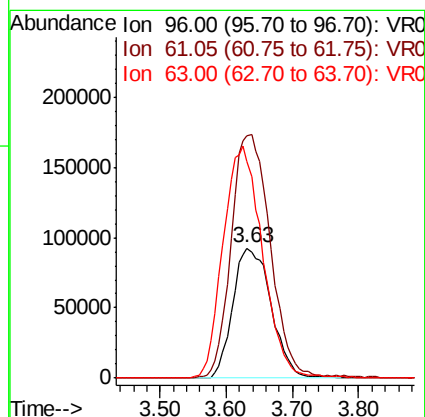
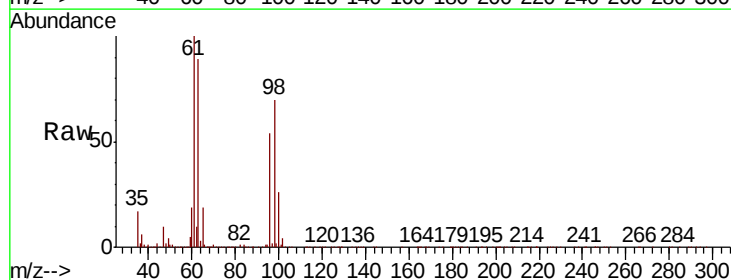
Tgt Ion: 96 Resp: 372061

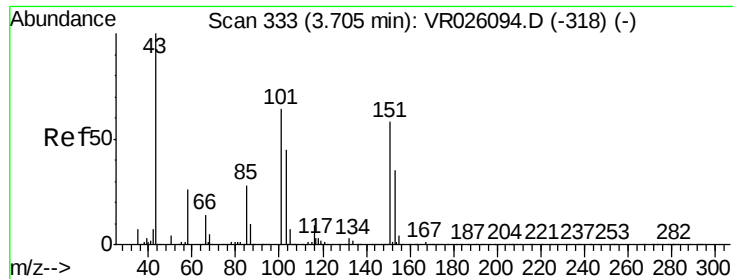
Ion Ratio Lower Upper

96 100

61 186.2 126.7 235.3

63 166.3 125.0 232.2





#13

Acetone

Concen: 4.492 ug/L

RT: 3.70 min Scan# 332

Delta R.T. -0.01 min

Lab File: VR026107.D

Acq: 16 Oct 2018 18:47

Instrument :

MSVOA_R

ClientSampleId :

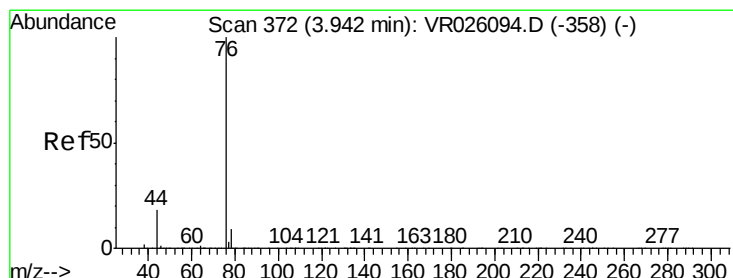
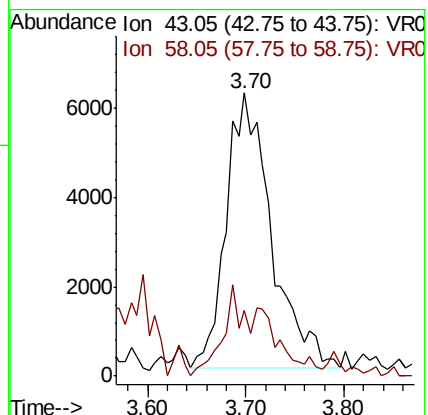
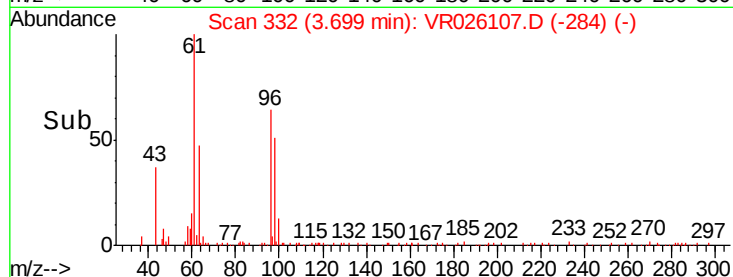
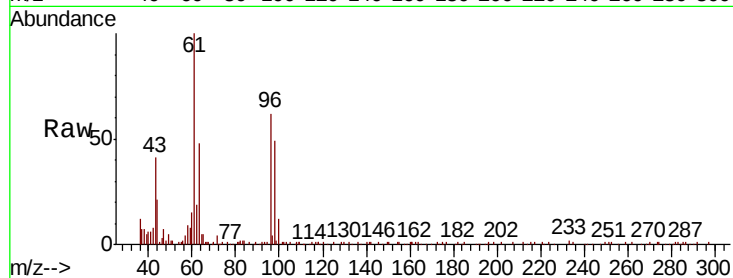
C0JD7

Tot Ion: 43 Resp: 19630

Ion Ratio Lower Upper

43 100

58 9.3 0.0 55.4



#14

Carbon disulfide

Concen: 0.130 ug/L

RT: 3.94 min Scan# 372

Delta R.T. -0.00 min

Lab File: VR026107.D

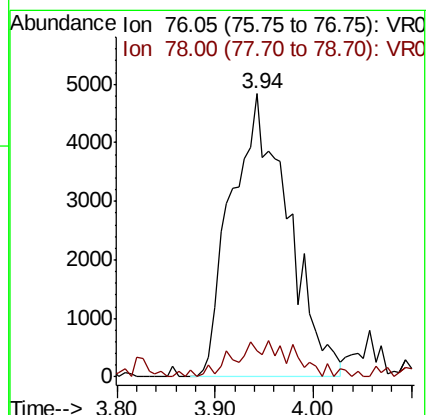
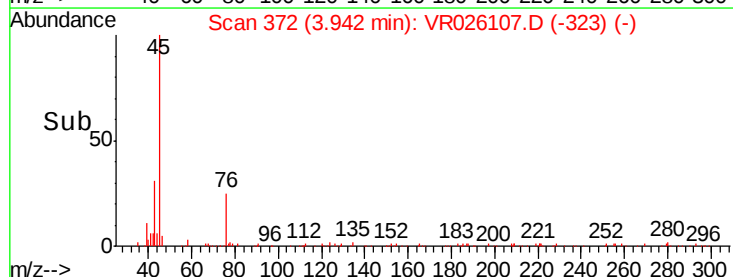
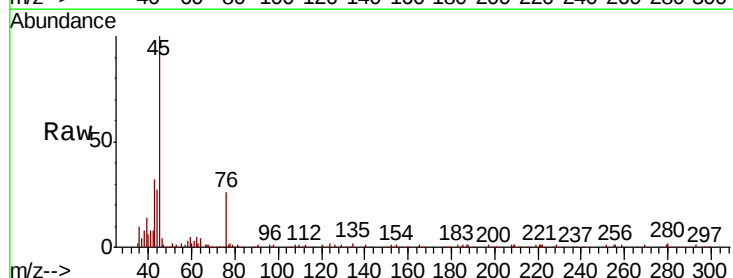
Acq: 16 Oct 2018 18:47

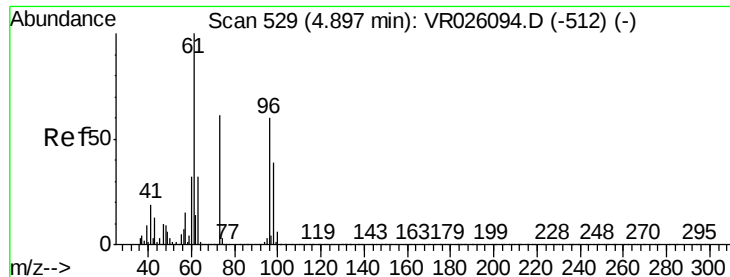
Tgt Ion: 76 Resp: 19514

Ion Ratio Lower Upper

76 100

78 9.2 7.6 11.4



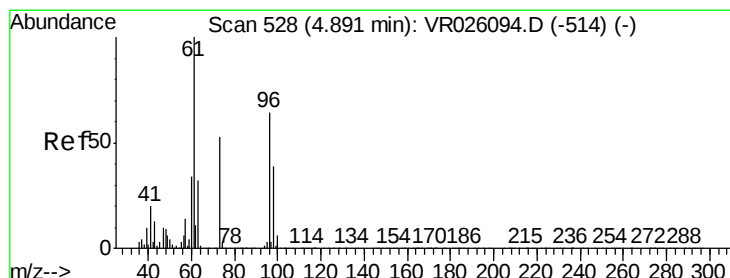
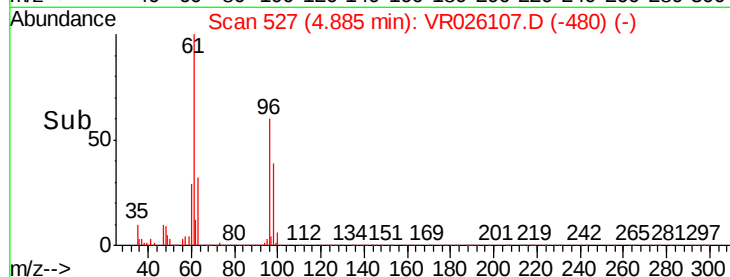
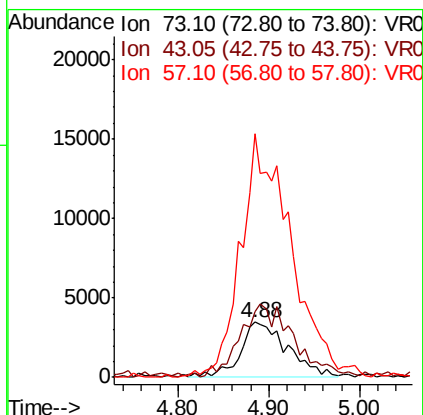
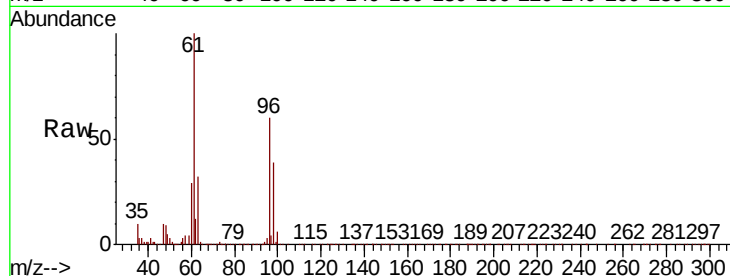


#17

Methyl tert-butyl Ether
 Concen: 0.243 ug/L
 RT: 4.88 min Scan# 527
 Delta R.T. -0.01 min
 Lab File: VR026107.D
 Acq: 16 Oct 2018 18:47

Instrument :
 MSVOA_R
 ClientSampleID :
 C0JD7

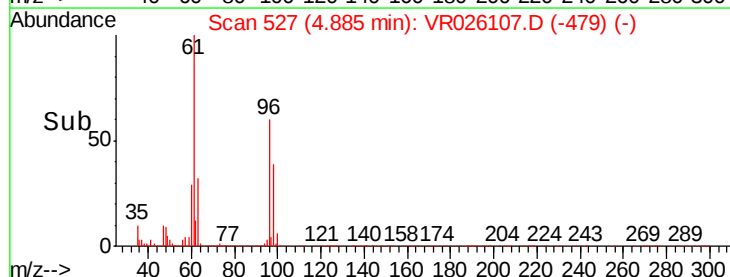
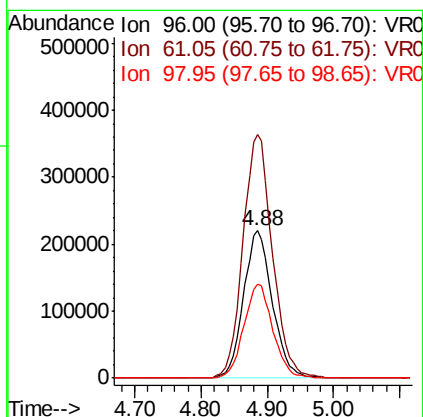
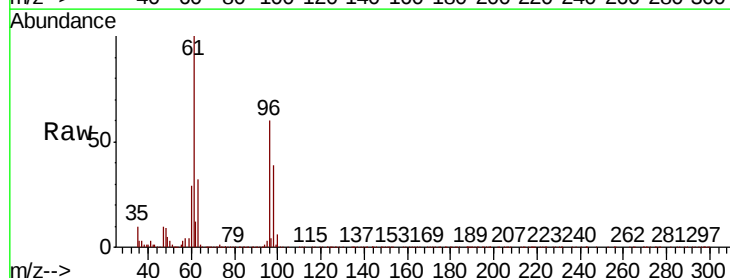
Tot Ion	Ratio	Lower	Upper
73	100		
43	150.5	20.1	30.1#
57	459.0	19.0	28.4#

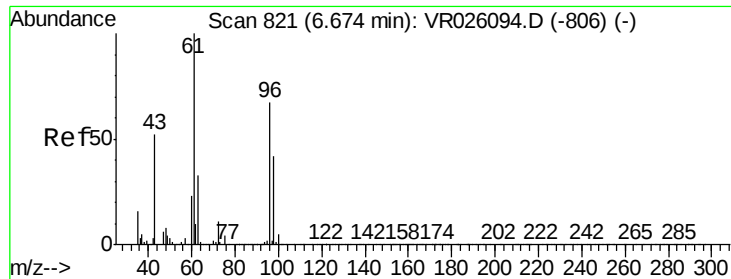


#18

trans-1,2-Dichloroethene
 Concen: 15.380 ug/L
 RT: 4.88 min Scan# 527
 Delta R.T. -0.01 min
 Lab File: VR026107.D
 Acq: 16 Oct 2018 18:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.5	111.4	206.8
98	64.1	41.4	77.0



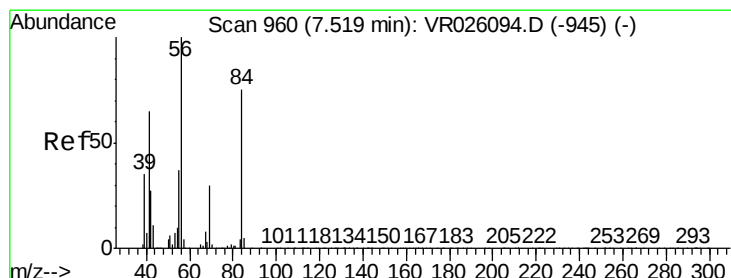
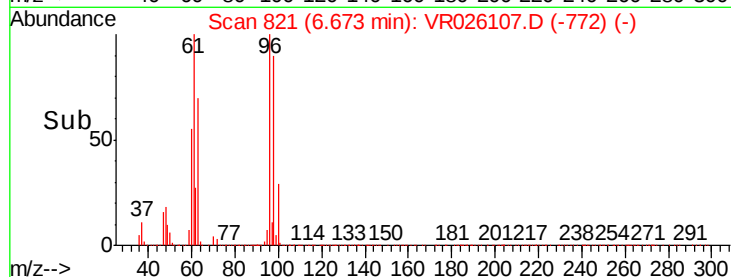
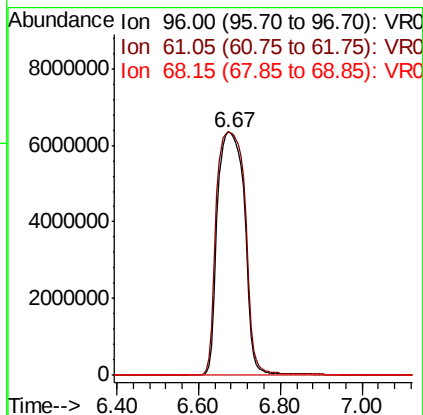
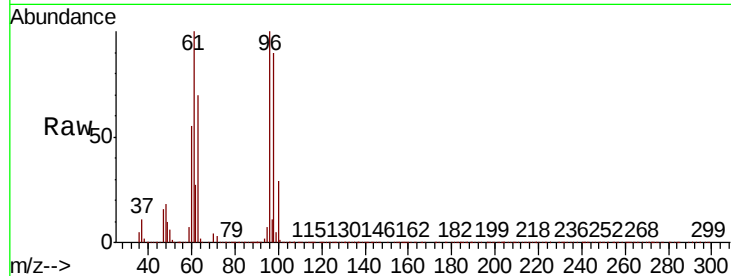


#22

cis-1,2-Dichloroethene
 Concen: 719.213 ug/L
 RT: 6.67 min Scan# 821
 Delta R.T. -0.00 min
 Lab File: VR026107.D
 Acq: 16 Oct 2018 18:47

Instrument :
 MSVOA_R
 ClientSampleId :
 C0JD7

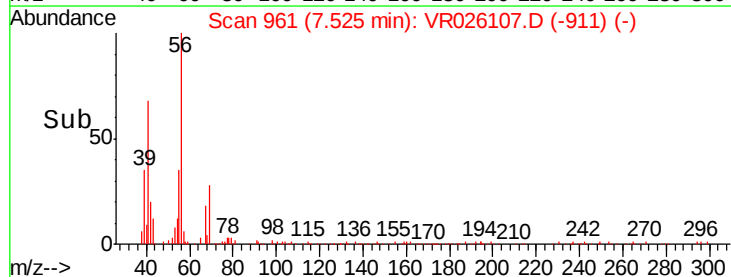
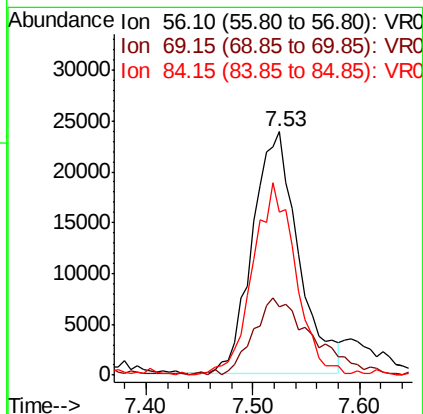
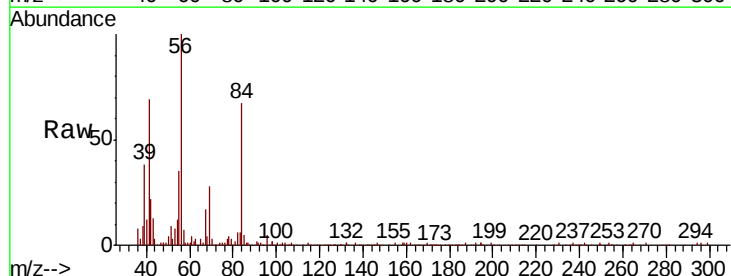
Tot Ion: 96 Resp:29433341
 Ion Ratio Lower Upper
 96 100
 61 99.9 101.8 189.0#
 68 0.0 0.1 0.3#

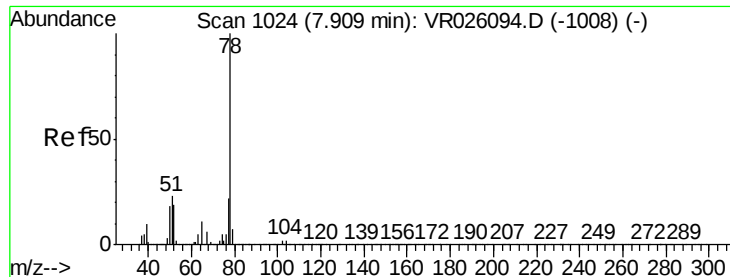


#30

Cyclohexane
 Concen: 1.106 ug/L
 RT: 7.53 min Scan# 961
 Delta R.T. 0.01 min
 Lab File: VR026107.D
 Acq: 16 Oct 2018 18:47

Tgt Ion: 56 Resp: 72169
 Ion Ratio Lower Upper
 56 100
 69 39.7 23.8 35.8#
 84 73.0 62.2 93.4





#33

Benzene

Concen: 9.360 ug/L

RT: 7.91 min Scan# 1024

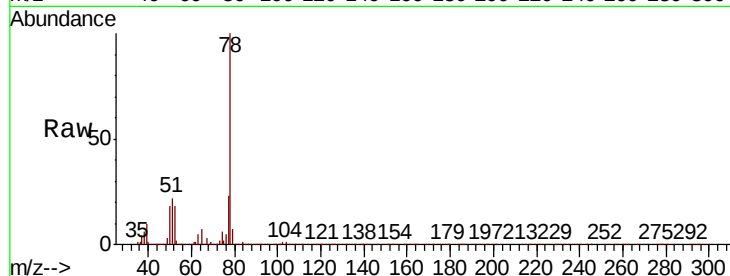
Delta R.T. -0.00 min

Lab File: VR026107.D

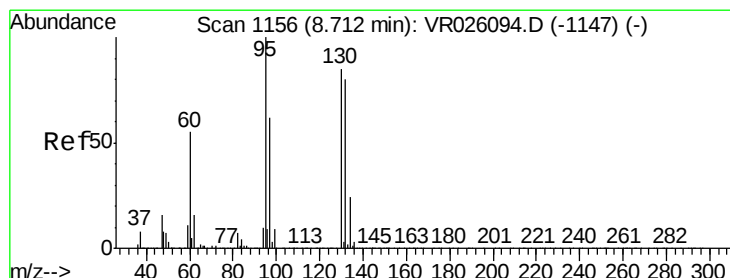
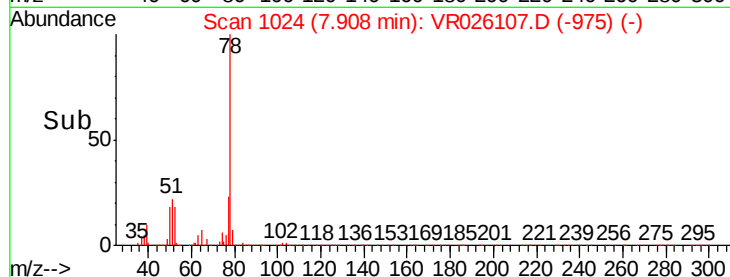
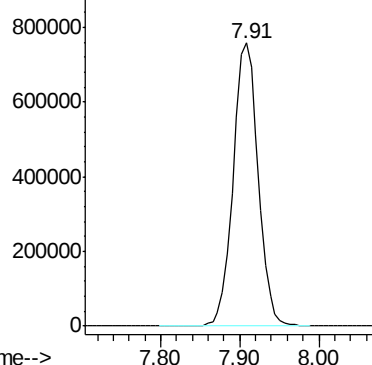
Acq: 16 Oct 2018 18:47

Instrument :
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C0JD7

Tgt Ion: 78 Resp: 1670895



Abundance Ion 78.10 (77.80 to 78.80): VR0



#34

Trichloroethene

Concen: 172.393 ug/L

RT: 8.71 min Scan# 1156

Delta R.T. -0.00 min

Lab File: VR026107.D

Acq: 16 Oct 2018 18:47

Tgt Ion: 95 Resp: 7877070

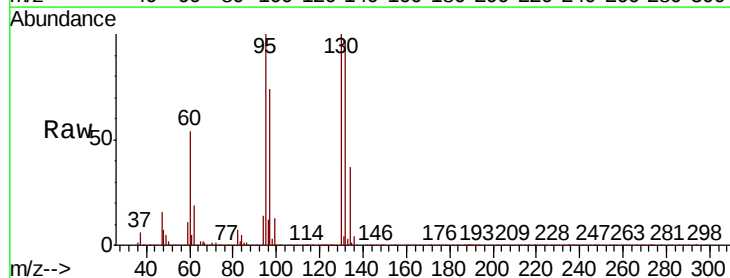
Ion	Ratio	Lower	Upper
95	100		
97	73.7	45.7	84.9
132	96.8	58.3	108.3
130	99.8	64.0	119.0

95 100

97 73.7 45.7 84.9

132 96.8 58.3 108.3

130 99.8 64.0 119.0

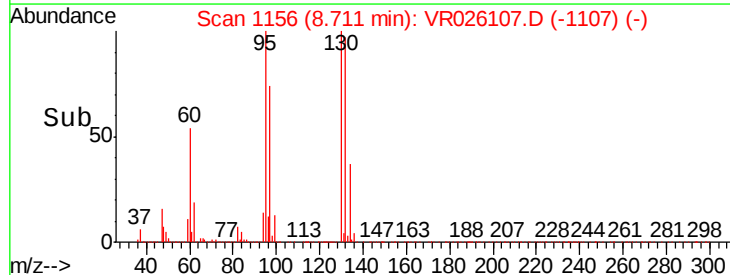
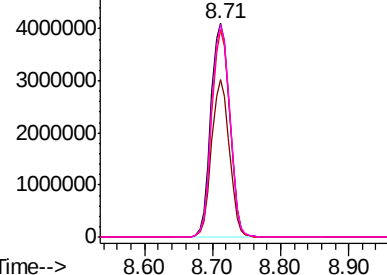


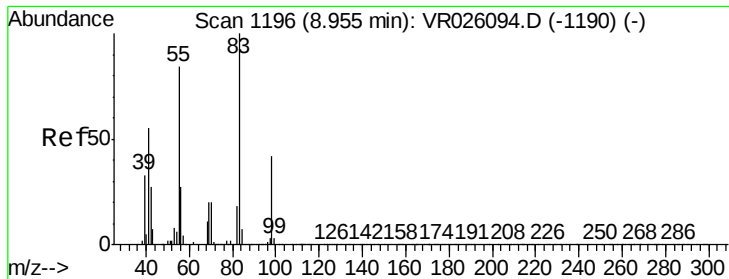
Abundance Ion 95.00 (94.70 to 95.70): VR0

Ion 96.95 (96.65 to 97.65): VR0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

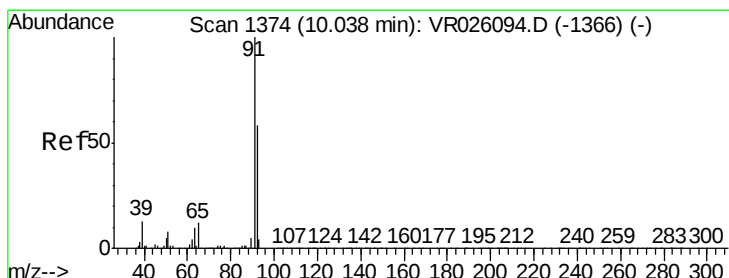
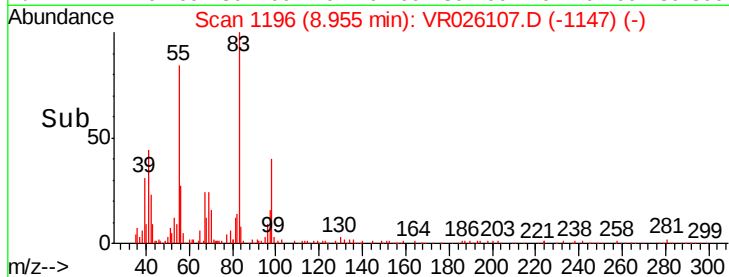
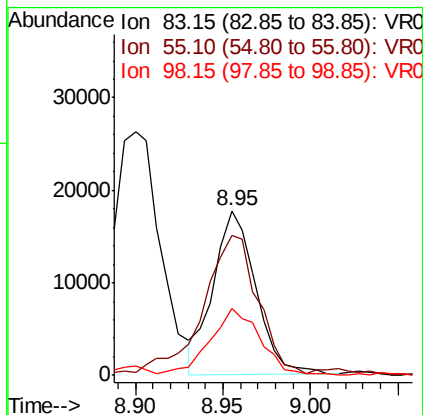
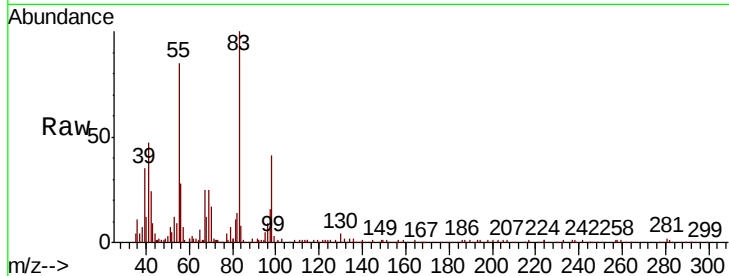




#35
Methvlcvclohexane
Concen: 0.439 ug/L
RT: 8.95 min Scan# 1196
Delta R.T. -0.00 min
Lab File: VR026107.D
Acq: 16 Oct 2018 18:47

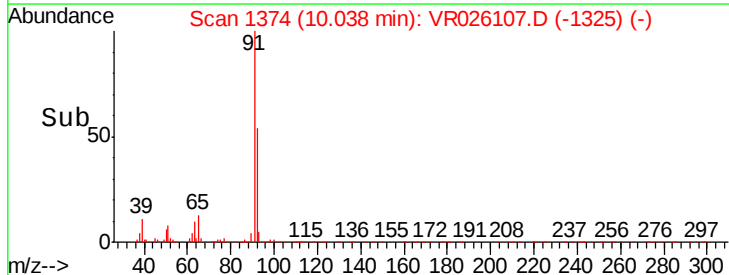
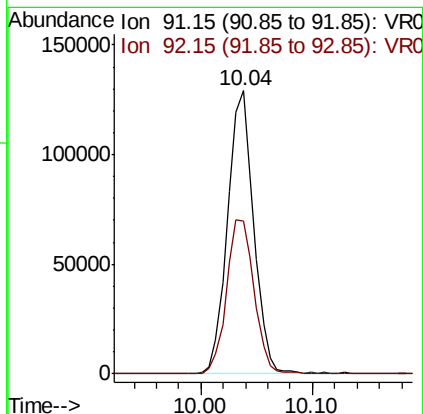
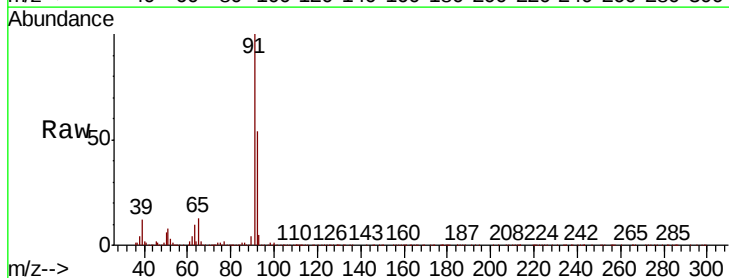
Instrument :
MSVOA_R
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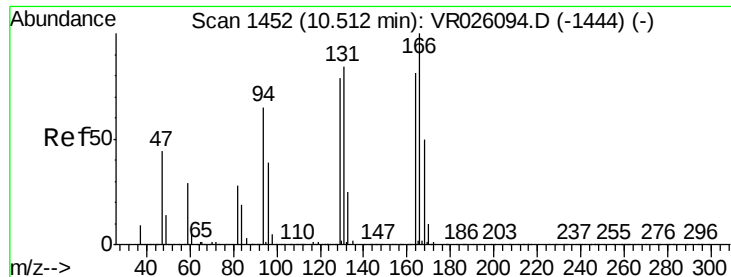
Tot Ion	83	Resp	29883
Ion Ratio	Lower	Upper	
83	100		
55	111.3	66.8	100.2#
98	47.2	35.2	52.8



#42
Toluene
Concen: 1.108 ug/L
RT: 10.04 min Scan# 1374
Delta R.T. -0.00 min
Lab File: VR026107.D
Acq: 16 Oct 2018 18:47

Tgt Ion	91	Resp	208839
Ion Ratio	Lower	Upper	
91	100		
92	54.0	40.8	75.8





#47

Tetrachloroethene

Concen: 2.347 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. -0.00 min

Lab File: VR026107.D

Acq: 16 Oct 2018 18:47

Instrument :

MSVOA_R

ClientSampleId :

C0JD7

Tot Ion:164 Resp: 76572

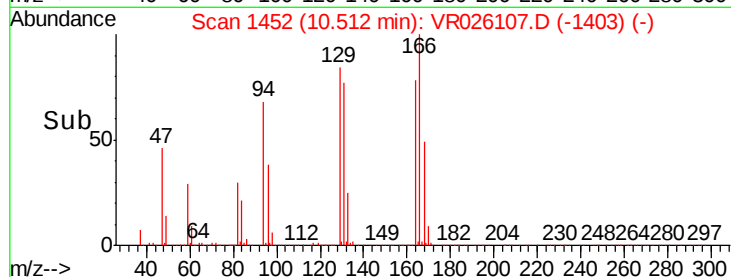
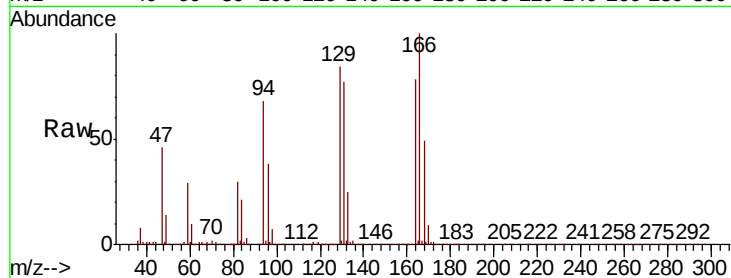
Ion Ratio Lower Upper

164 100

129 108.1 70.3 130.5

131 98.3 67.3 125.1

166 128.1 86.1 159.9

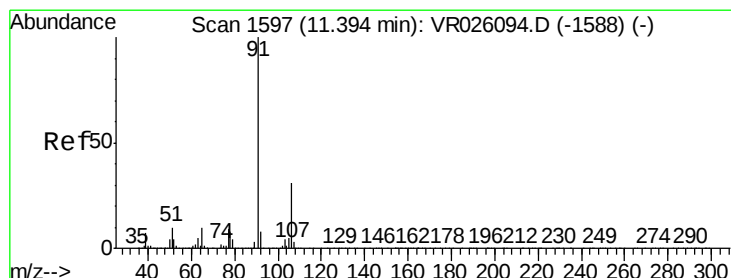
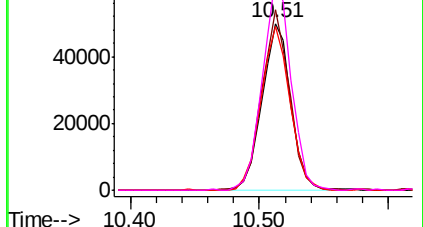


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#52

Ethylbenzene

Concen: 0.260 ug/L

RT: 11.39 min Scan# 1597

Delta R.T. -0.00 min

Lab File: VR026107.D

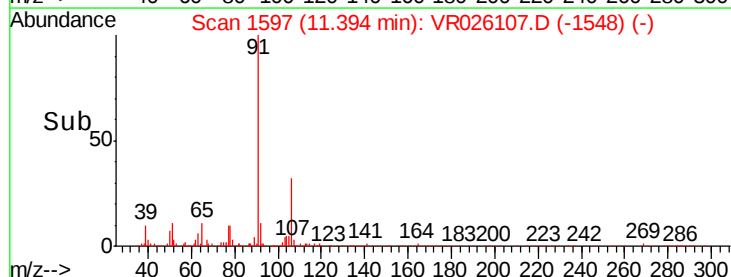
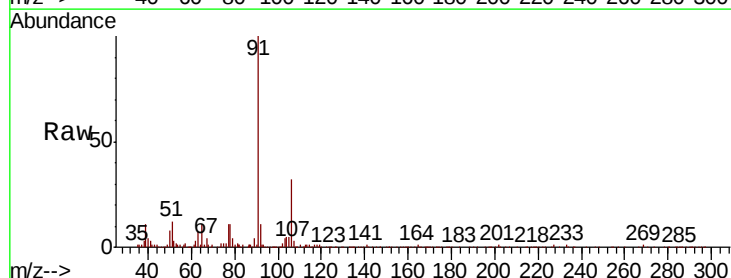
Acq: 16 Oct 2018 18:47

Tgt Ion: 91 Resp: 56377

Ion Ratio Lower Upper

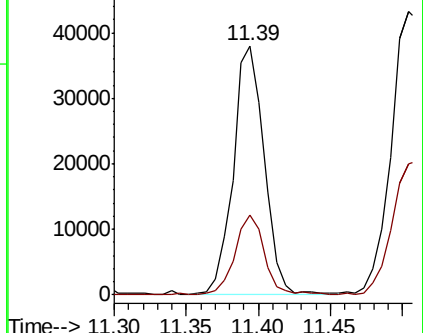
91 100

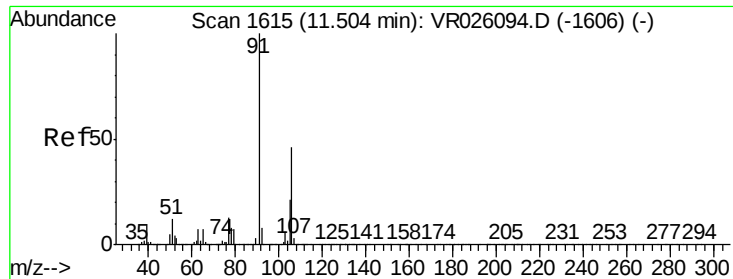
106 32.1 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VR0

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.466 ug/L

RT: 11.51 min Scan# 1616

Delta R.T. 0.01 min

Lab File: VR026107.D

Acq: 16 Oct 2018 18:47

Instrument :

MSVOA_R

ClientSampleId :

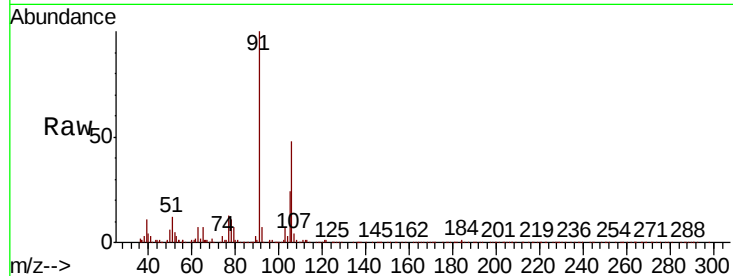
C0JD7

Tot Ion:106 Resp: 36771

Ion Ratio Lower Upper

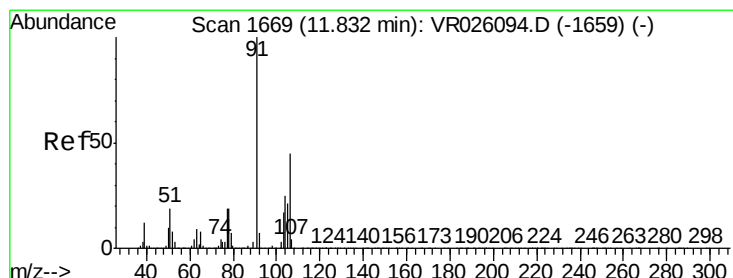
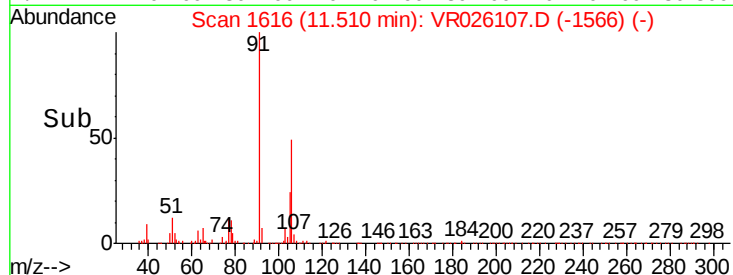
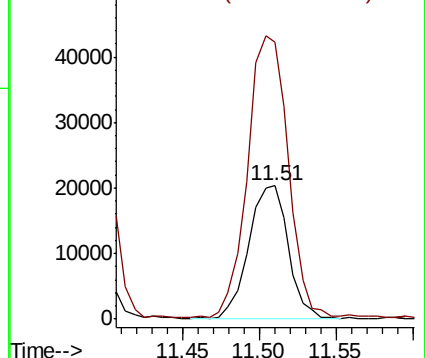
106 100

91 207.3 145.3 269.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0



#54

o-Xylene

Concen: 2.669 ug/L

RT: 11.83 min Scan# 1669

Delta R.T. -0.00 min

Lab File: VR026107.D

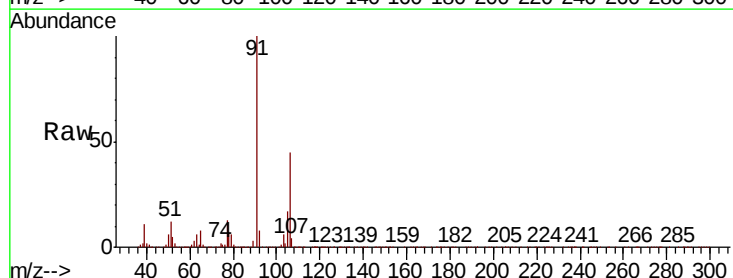
Acq: 16 Oct 2018 18:47

Tgt Ion:106 Resp: 193133

Ion Ratio Lower Upper

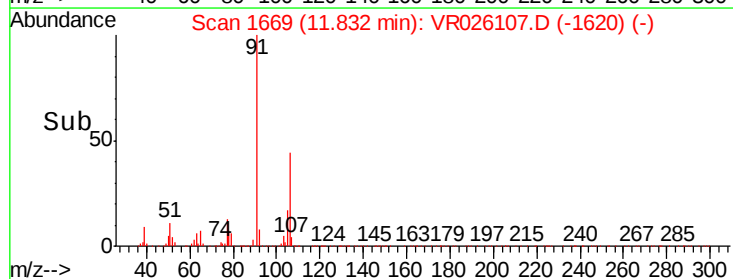
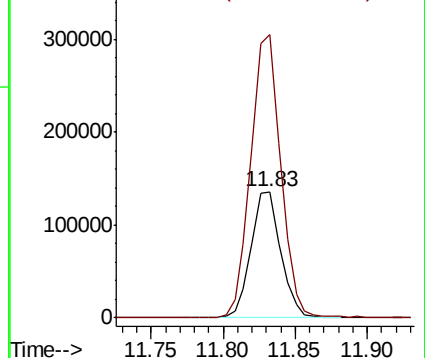
106 100

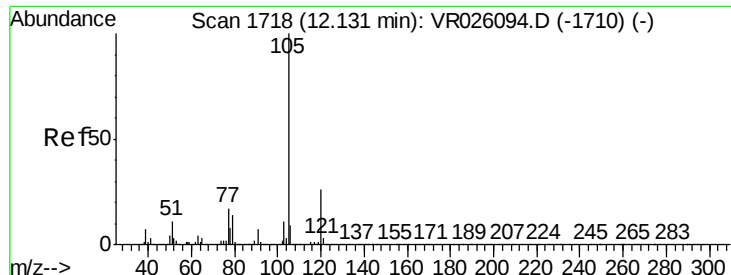
91 224.3 155.8 289.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VR0





#56

Isopropylbenzene

Concen: 0.196 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. -0.00 min

Lab File: VR026107.D

Acq: 16 Oct 2018 18:47

Instrument :

MSVOA_R

ClientSampleId :

C0JD7

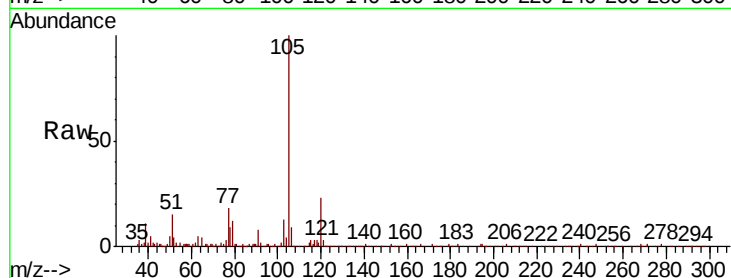
Tot Ion:105 Resp: 39307

Ion Ratio Lower Upper

105 100

120 23.8 21.0 31.4

77 19.7 14.6 21.8



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): VR0

