

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031975.D
 Acq On : 3 May 2018 23:22
 Operator : SY/AP
 Sample : J2629-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
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 5/4/2018 5:01:09 PM

Quant Time: May 04 04:12:52 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 15:52:13 2018
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1119184	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2253270	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2175157	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.72	95	1730489	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	32500	0.22	ppbv	93
3) Chlorodifluoromethane	3.10	51	105701m	1.00	ppbv	
4) Chloromethane	3.25	50	29638	0.53	ppbv	95
9) Propene	3.13	41	15965	0.41	ppbv	88
10) Heptane	8.39	43	30321m	0.23	ppbv	
11) Trichlorofluoromethane	4.11	101	34931	0.20	ppbv #	81
13) Ethanol	3.75	45	3978226	276.05	ppbv #	100
15) Acetone	4.00	43	763522	4.83	ppbv	99
19) Isopropyl Alcohol	4.13	45	717961	8.39	ppbv #	99
20) Methylene Chloride	4.52	84	405488	7.59	ppbv	95
26) Hexane	5.90	57	384497	3.01	ppbv #	63
30) Cyclohexane	7.38	84	31304m	0.37	ppbv	
34) 2-Butanone	5.45	43	118897	0.64	ppbv	96
35) Carbon Tetrachloride	7.27	117	12747m	0.07	ppbv	
36) Benzene	7.14	78	23605m	0.11	ppbv	
52) Tetrachloroethene	11.52	164	5806m	0.07	ppbv	
53) Toluene	10.10	91	158371	0.69	ppbv	98
58) Ethyl Benzene	13.01	91	56605	0.18	ppbv	93
59) m/p-Xylene	13.27	91	224532m	0.85	ppbv	
60) o-Xylene	14.00	91	86528m	0.33	ppbv	
74) 1,2,4-Trimethylbenzene	17.07	105	41227m	0.15	ppbv	

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

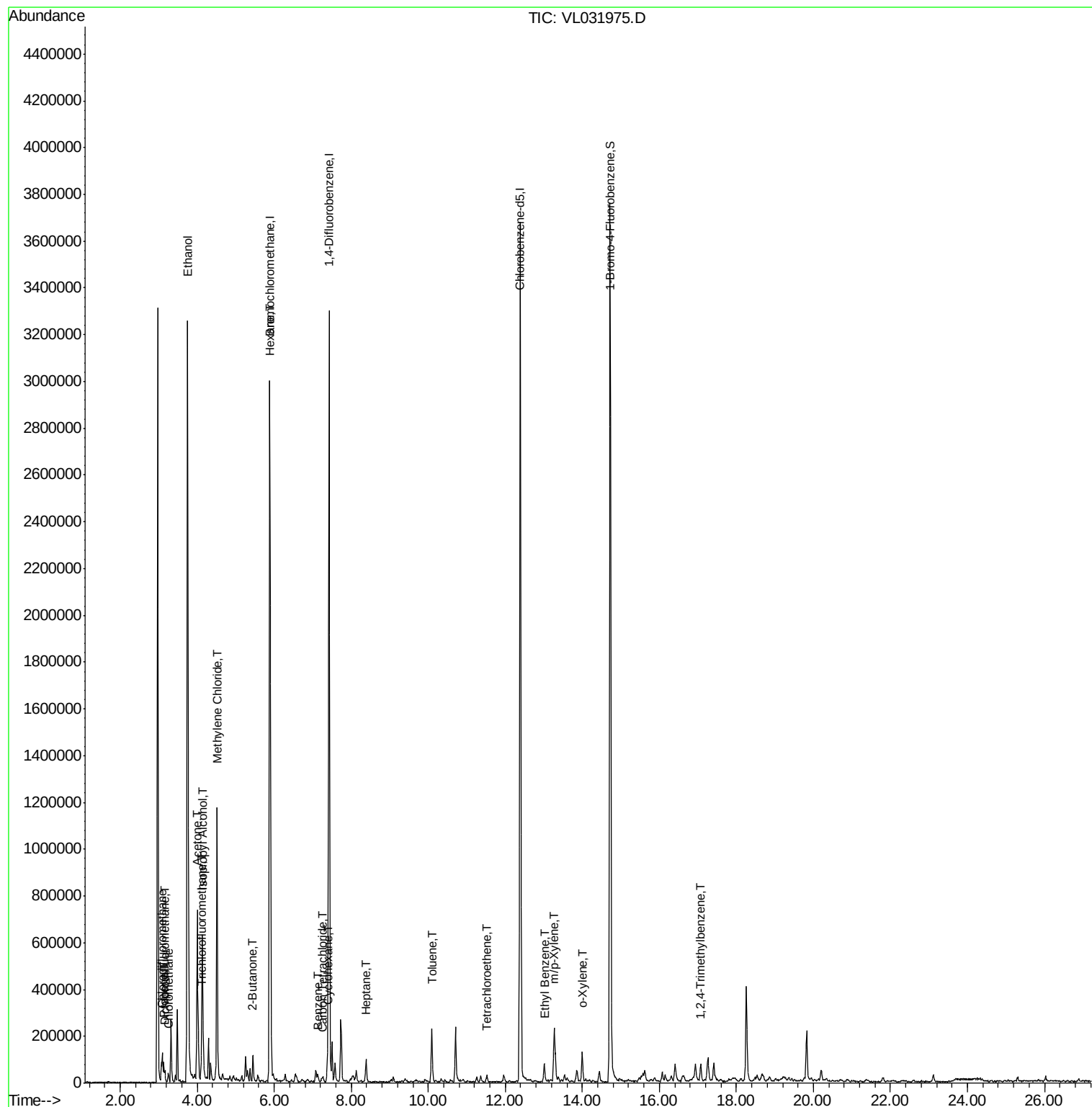
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
Data File : VL031975.D
Acq On : 3 May 2018 23:22
Operator : SY/AP
Sample : J2629-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

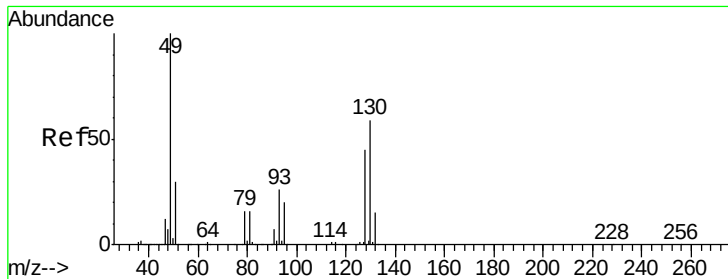
Instrument :
MSVOA_L
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Quant Time: May 04 04:12:52 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May
QLast Update : Thu May 03 15:52:13 2018
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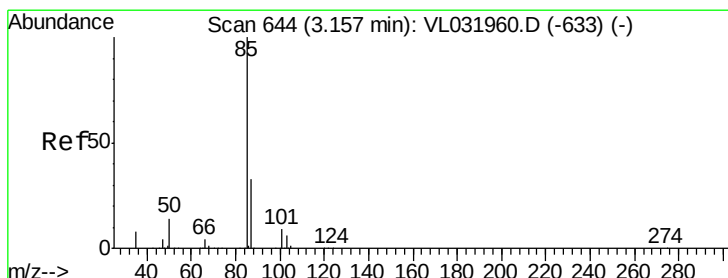
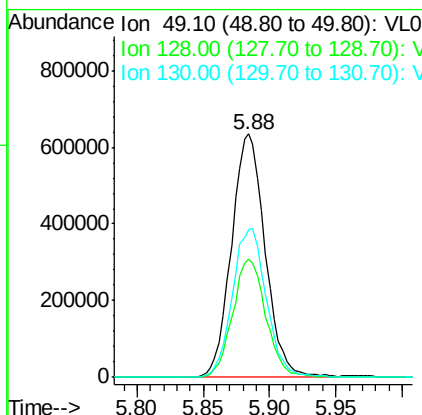
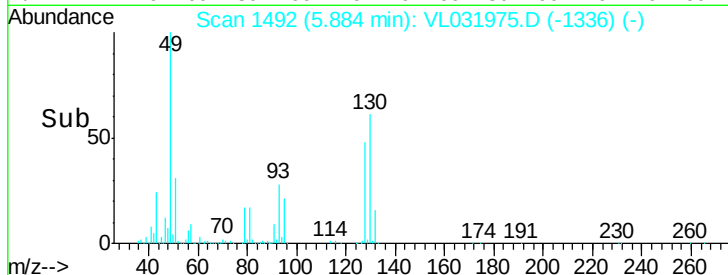
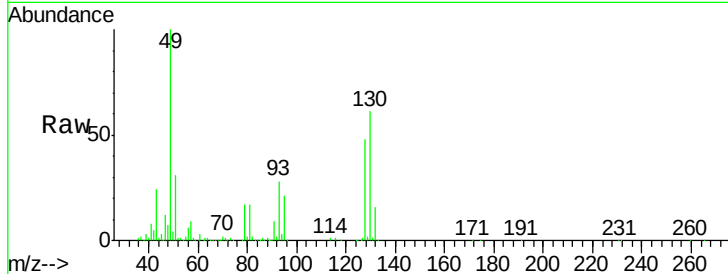
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.88 min Scan# 1492
 Delta R.T. 0.00 min
 Lab File: VL031975.D
 Acq: 3 May 2018 23:22

Instrument :
 MSVOA_L
 ClientSampled :
 IA3

Tot Ion:	49	Resp:	1119184
Ion	Ratio	Lower	Upper
49	100		
128	48.3	24.1	72.3
130	62.3	30.7	92.1

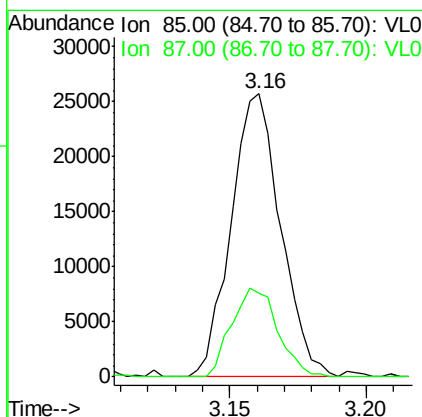
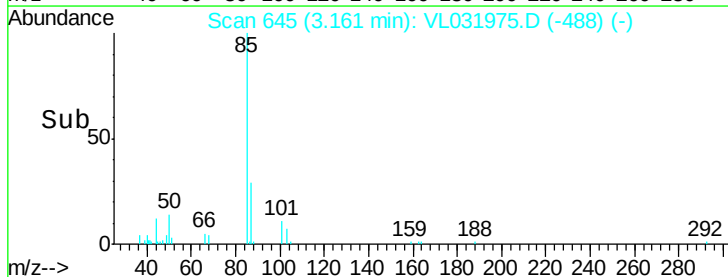
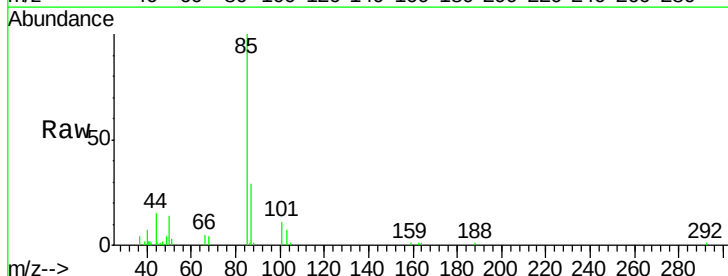
Manual Integrations
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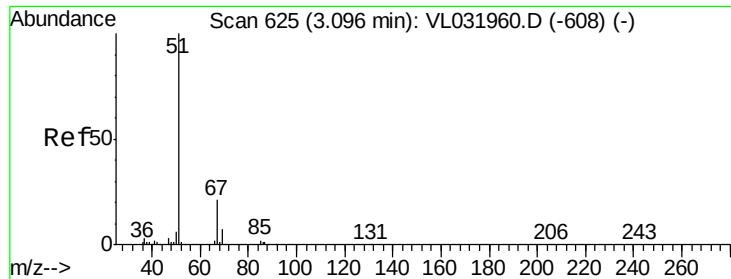
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#2
 Dichlorodifluoromethane
 Concen: 0.22 ppbv
 RT: 3.16 min Scan# 645
 Delta R.T. 0.00 min
 Lab File: VL031975.D
 Acq: 3 May 2018 23:22

Tgt Ion:	85	Resp:	32500
Ion	Ratio	Lower	Upper
85	100		
87	29.5	26.8	40.2





#3

Chlorodifluoromethane

Concen: 1.00 ppbv m

RT: 3.10 min Scan# 625

Delta R.T. 0.00 min

Lab File: VL031975.D

Acq: 3 May 2018 23:22

Instrument :

MSVOA_L

ClientSampled :

IA3

Tot Ion: 51 Resp: 105701

Ion Ratio Lower Upper

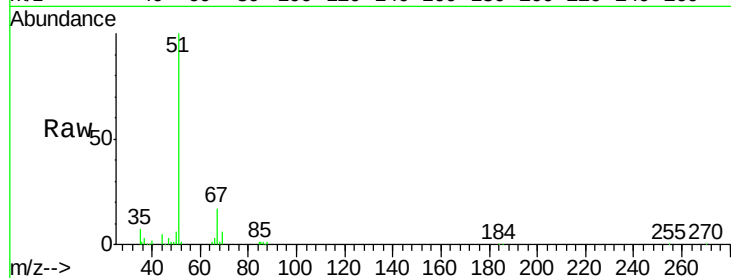
51 100

67 19.5 15.9 23.9

Manual Integrations
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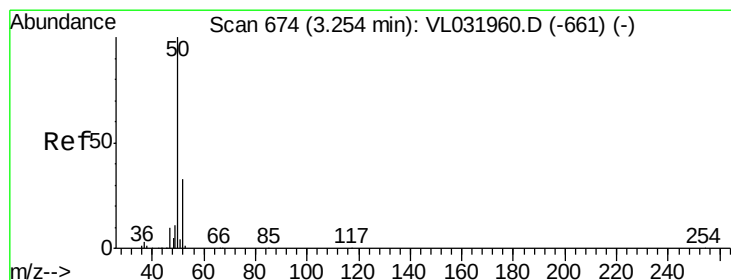
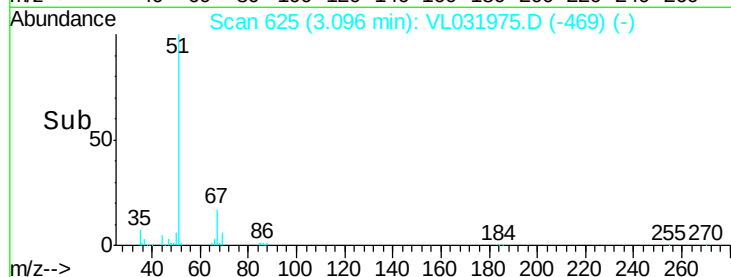
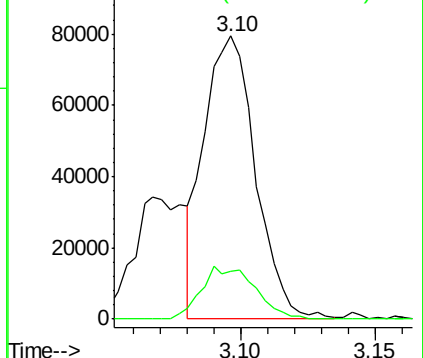
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.53 ppbv

RT: 3.25 min Scan# 674

Delta R.T. 0.00 min

Lab File: VL031975.D

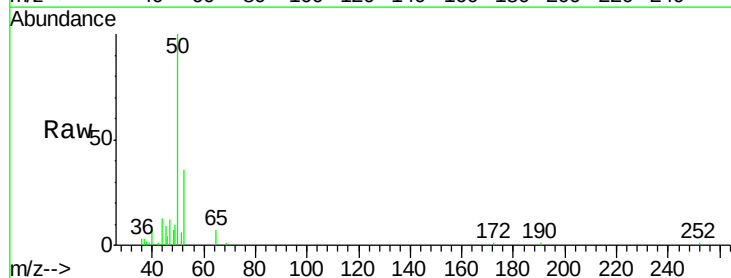
Acq: 3 May 2018 23:22

Tgt Ion: 50 Resp: 29638

Ion Ratio Lower Upper

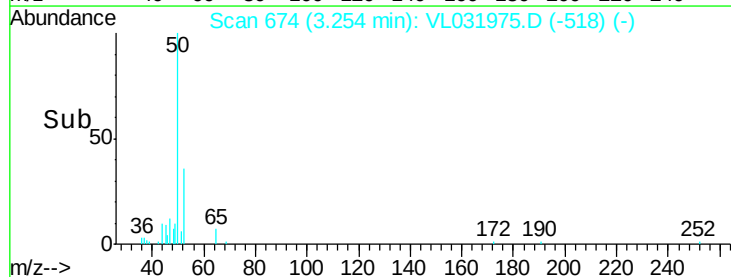
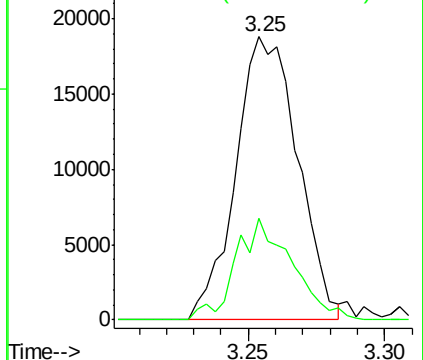
50 100

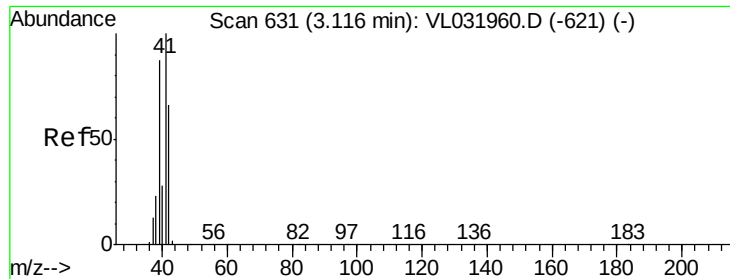
52 36.1 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.41 ppbv

RT: 3.13 min Scan# 636

Delta R.T. 0.02 min

Lab File: VL031975.D

Acq: 3 May 2018 23:22

Instrument :

MSVOA_L

ClientSampled :

IA3

Tot Ion: 41 Resp: 15965

Ion Ratio Lower Upper

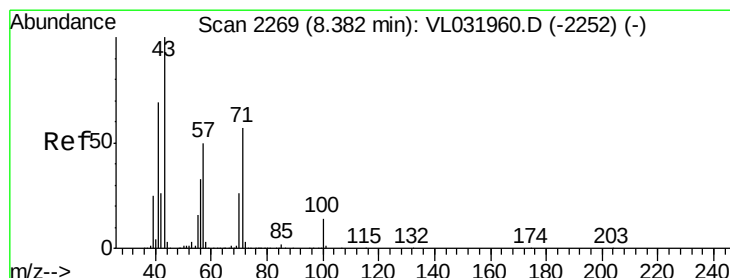
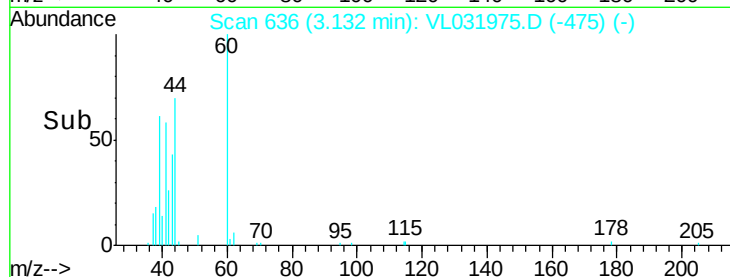
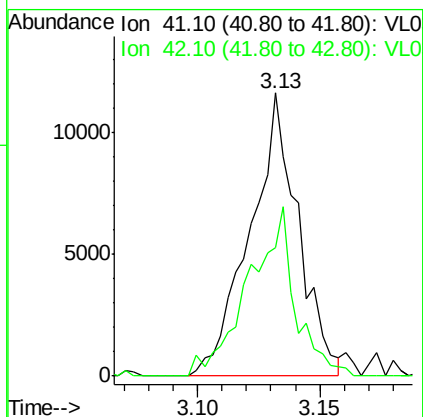
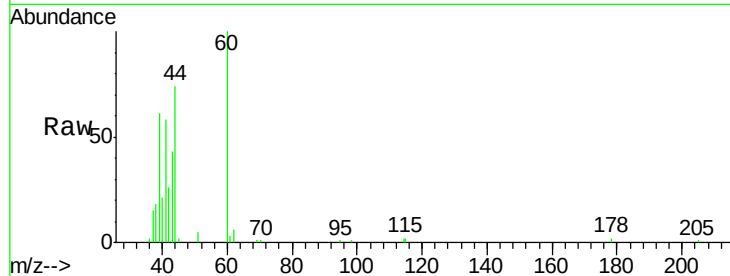
41 100

42 57.7 53.9 80.9

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#10

Heptane

Concen: 0.23 ppbv m

RT: 8.39 min Scan# 2271

Delta R.T. 0.01 min

Lab File: VL031975.D

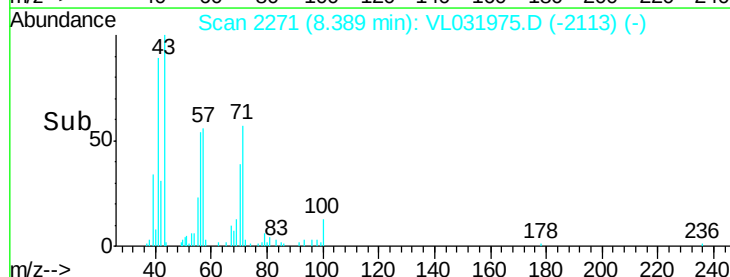
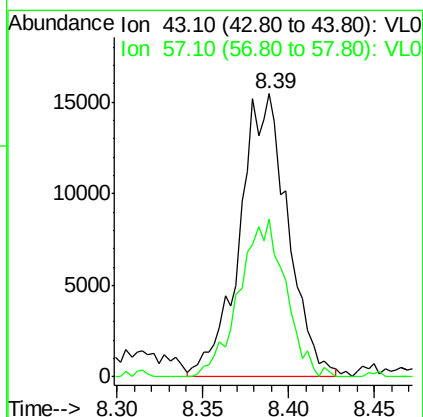
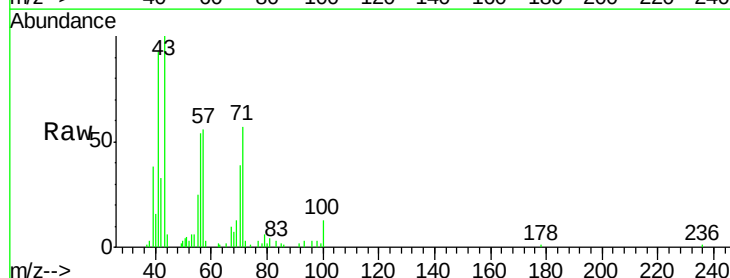
Acq: 3 May 2018 23:22

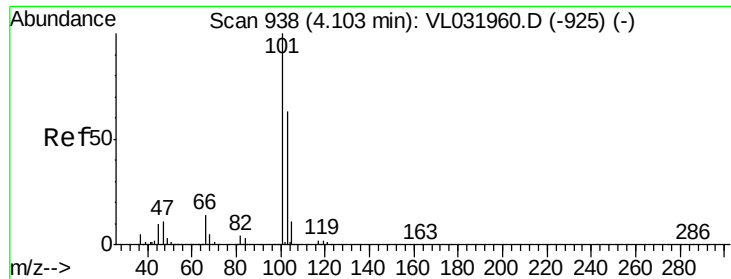
Tgt Ion: 43 Resp: 30321

Ion Ratio Lower Upper

43 100

57 0.0 40.7 61.1#





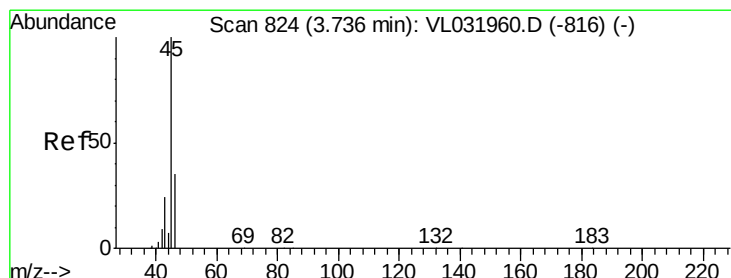
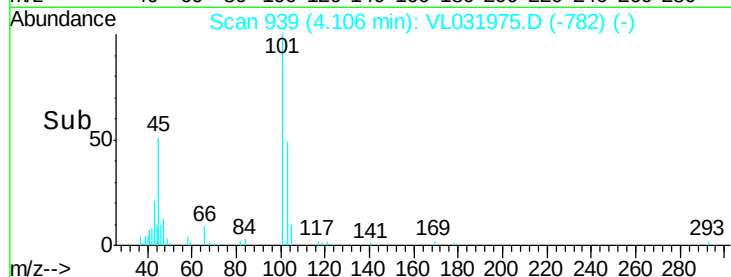
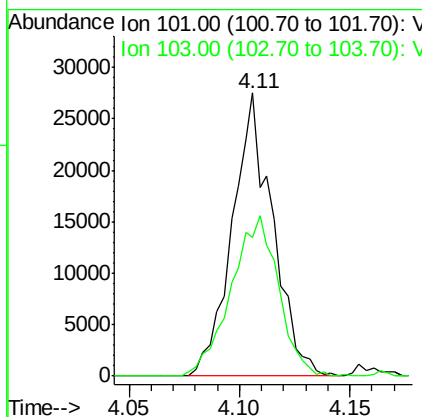
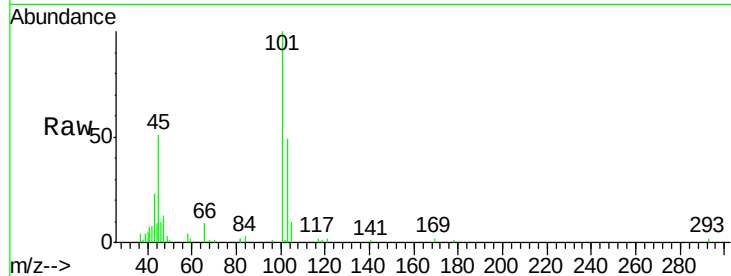
#11
 Trichlorofluoromethane
 Concen: 0.20 ppbv
 RT: 4.11 min Scan# 939
 Delta R.T. 0.00 min
 Lab File: VL031975.D
 Acq: 3 May 2018 23:22

Instrument :
 MSVOA_L
 ClientSampled :
 IA3

Tot Ion:101 Resp: 34931
 Ion Ratio Lower Upper
 101 100
 103 48.9 50.7 76.1#

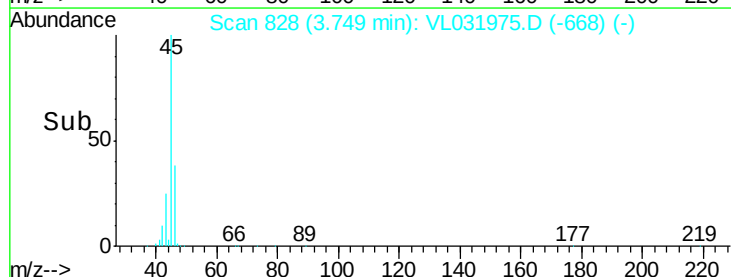
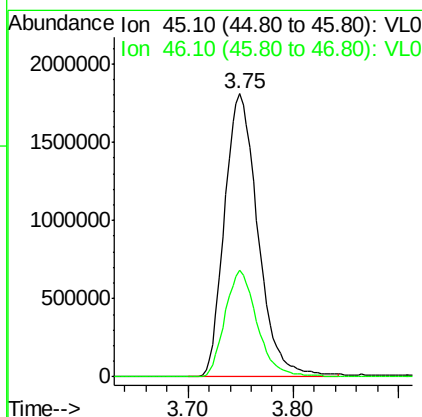
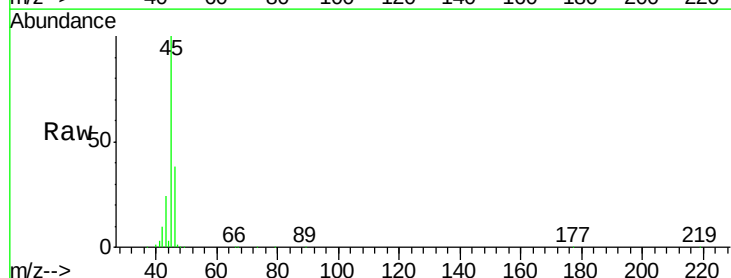
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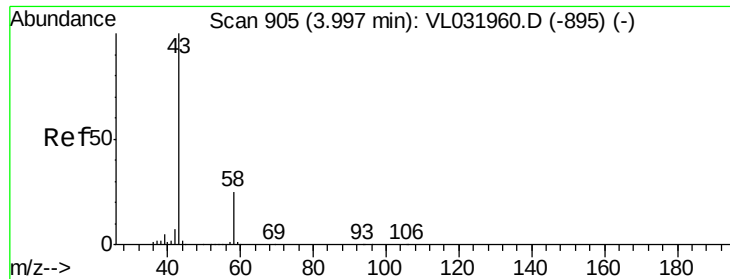
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#13
 Ethanol
 Concen: 276.05 ppbv
 RT: 3.75 min Scan# 828
 Delta R.T. 0.01 min
 Lab File: VL031975.D
 Acq: 3 May 2018 23:22

Tgt Ion: 45 Resp: 3978226
 Ion Ratio Lower Upper
 45 100
 46 36.4 0.0 0.0#





#15

Acetone

Concen: 4.83 ppbv

RT: 4.00 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL031975.D

Acq: 3 May 2018 23:22

Instrument :

MSVOA_L

ClientSampled :

IA3

Tot Ion: 43 Resp: 763522

Ion Ratio Lower Upper

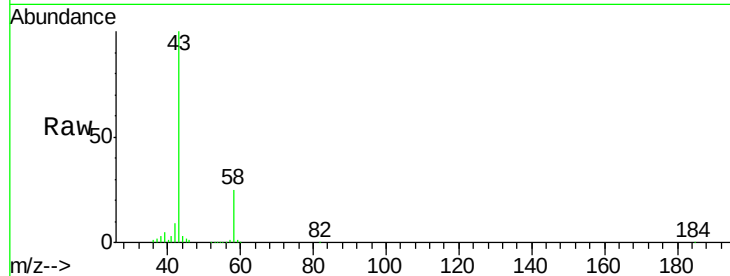
43 100

58 26.1 21.1 31.7

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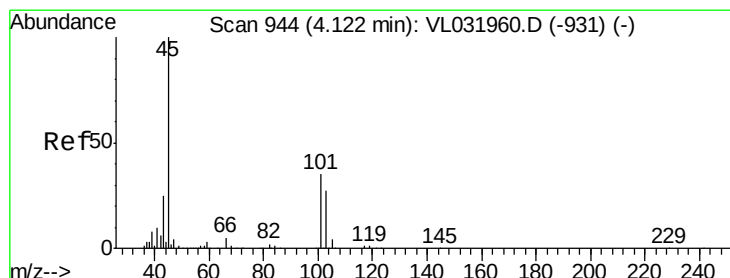
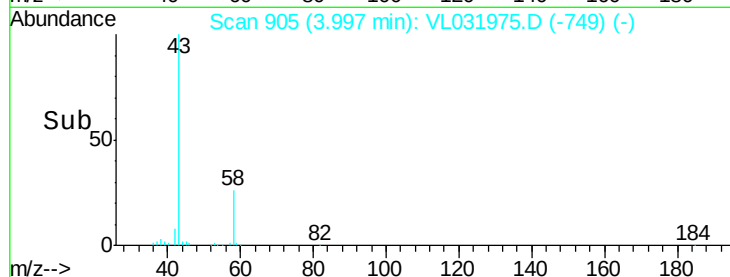
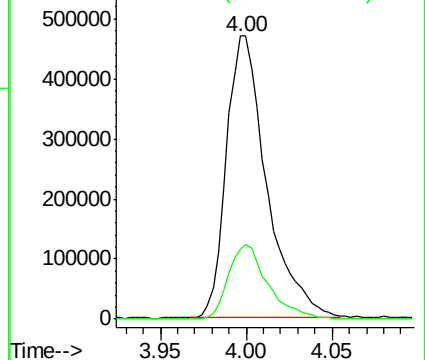
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 8.39 ppbv

RT: 4.13 min Scan# 948

Delta R.T. 0.01 min

Lab File: VL031975.D

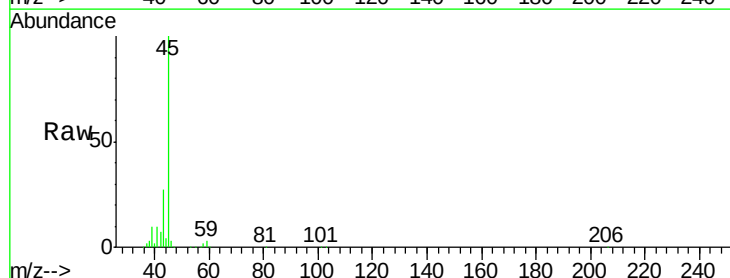
Acq: 3 May 2018 23:22

Tgt Ion: 45 Resp: 717961

Ion Ratio Lower Upper

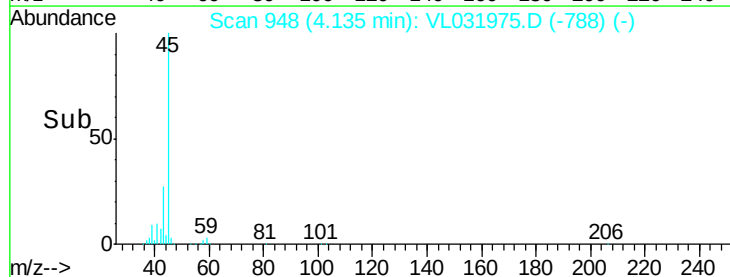
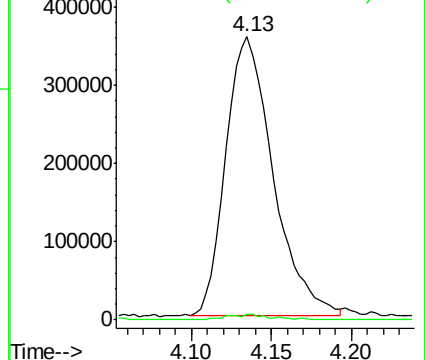
45 100

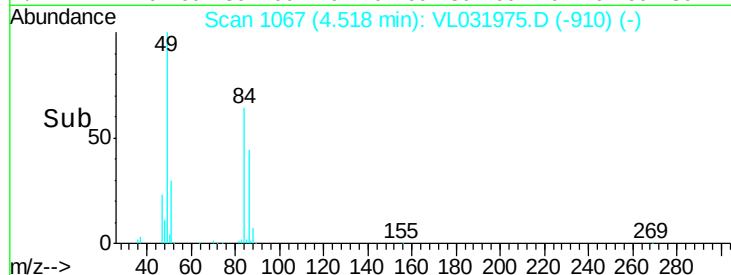
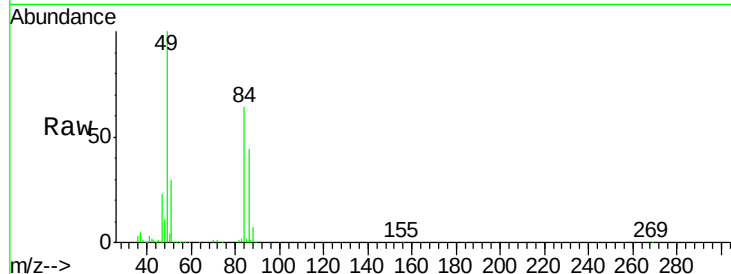
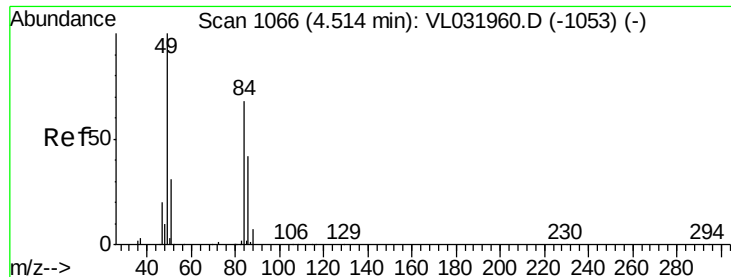
58 2.3 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





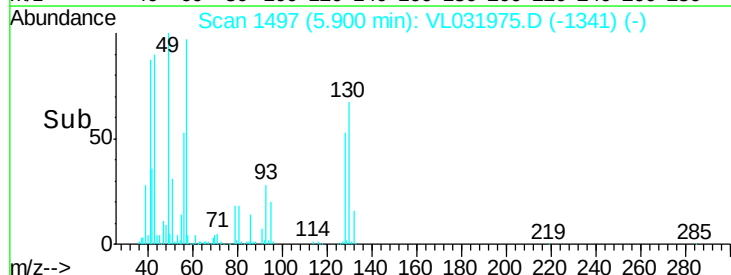
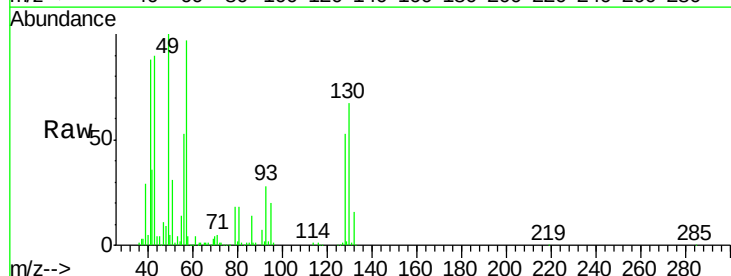
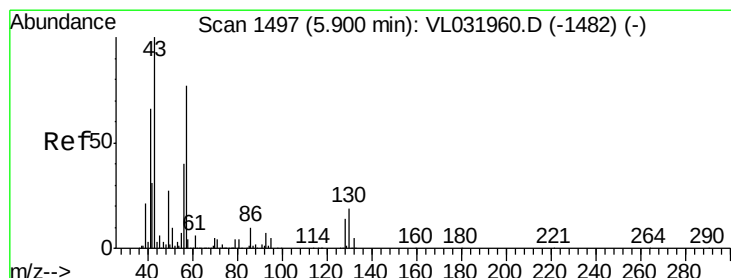
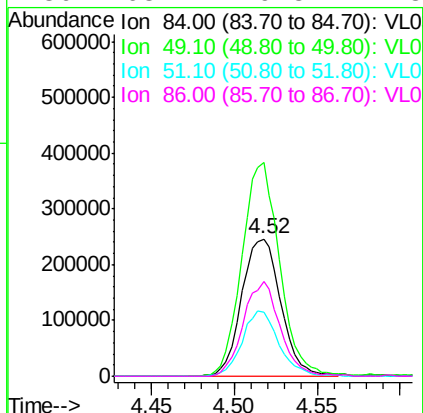
#20
Methvlene Chloride
Concen: 7.59 ppbv
RT: 4.52 min Scan# 1067
Delta R.T. 0.00 min
Lab File: VL031975.D
Acq: 3 May 2018 23:22

Tot Ion	84	Resp	405488
Ion Ratio	Lower	Upper	
84	100		
49	155.3	118.6	178.0
51	46.1	36.6	54.8
86	68.7	49.8	74.8

Instrument :
MSVOA_L
ClientSampled :
IA3

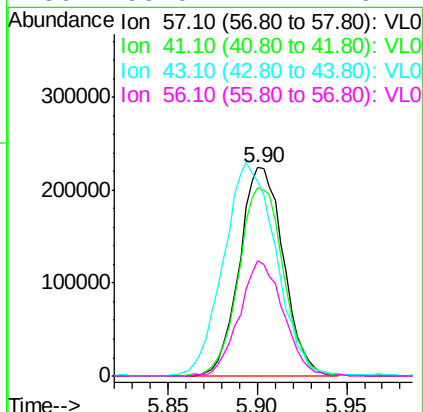
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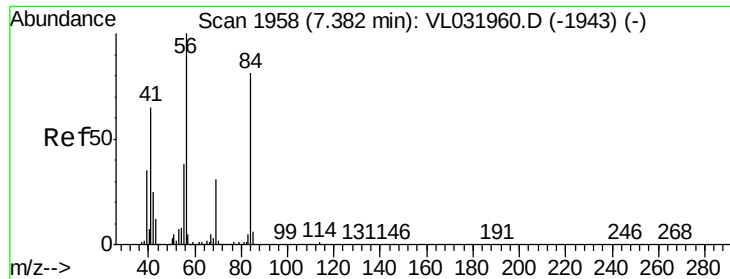
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#26
Hexane
Concen: 3.01 ppbv
RT: 5.90 min Scan# 1497
Delta R.T. 0.00 min
Lab File: VL031975.D
Acq: 3 May 2018 23:22

Tgt Ion	57	Resp	384497
Ion Ratio	Lower	Upper	
57	100		
41	93.1	71.8	107.6
43	122.0	171.5	257.3#
56	55.0	41.4	62.2





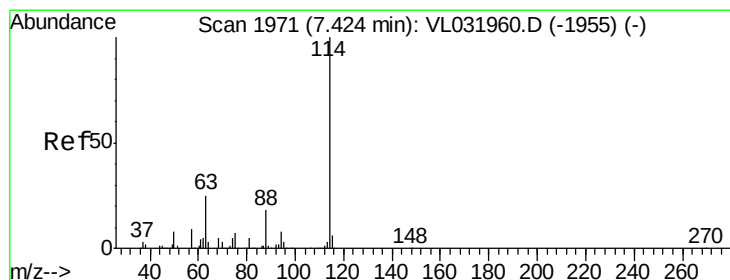
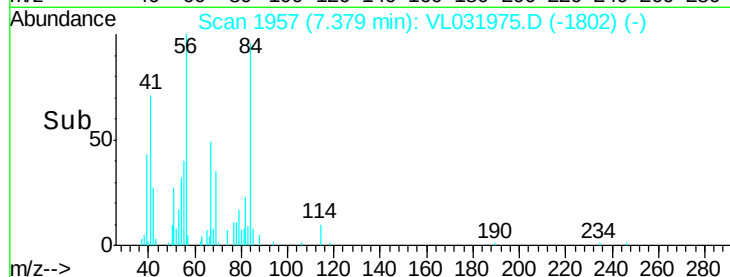
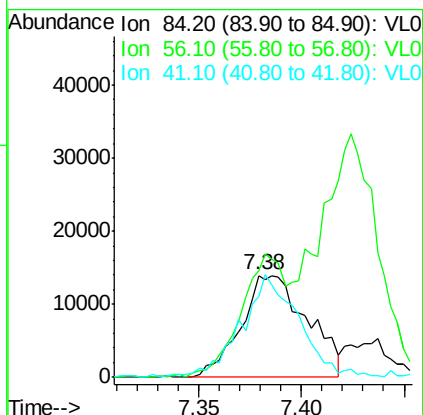
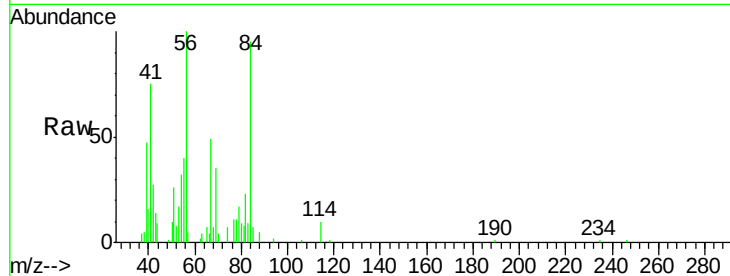
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Cyclohexane
Concen: 0.37 ppbv m
RT: 7.38 min Scan# 1957
Delta R.T. -0.00 min
Lab File: VL031975.D
Acq: 3 May 2018 23:22

Instrument :
MSVOA_L
ClientSampled :
IA3

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	108.0	162.0#
41	87.9	66.8	100.2

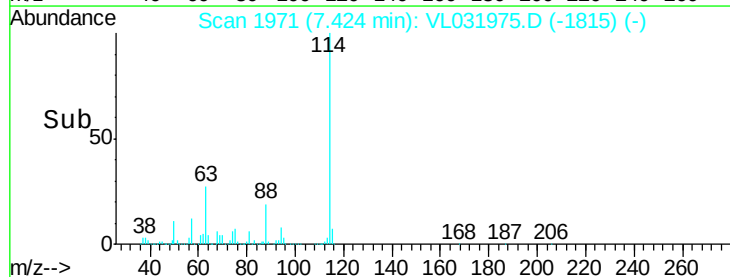
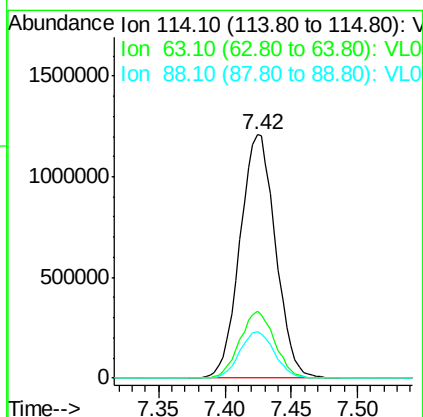
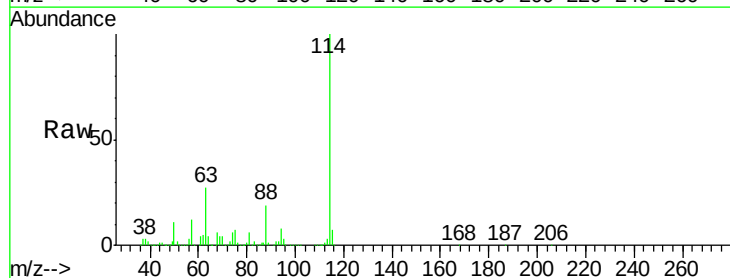
Manual Integrations
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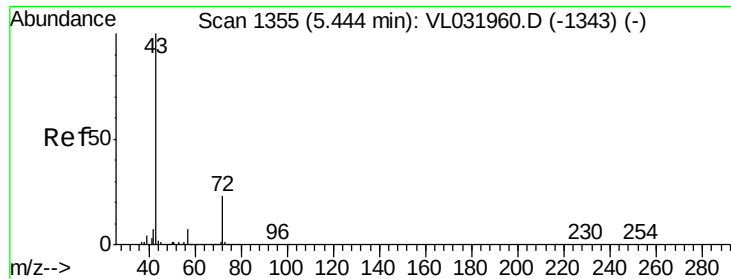
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.42 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VL031975.D
Acq: 3 May 2018 23:22

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.9	20.8	31.2
88	18.6	14.6	21.8





#34

2-Butanone

Concen: 0.64 ppbv

RT: 5.45 min Scan# 1356

Delta R.T. 0.00 min

Lab File: VL031975.D

Acq: 3 May 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tot Ion: 43 Resp: 118897

Ion Ratio Lower Upper

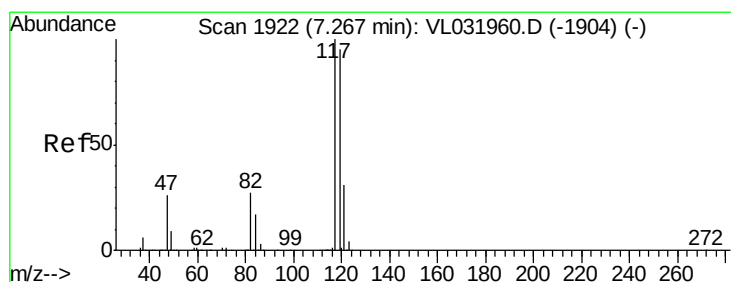
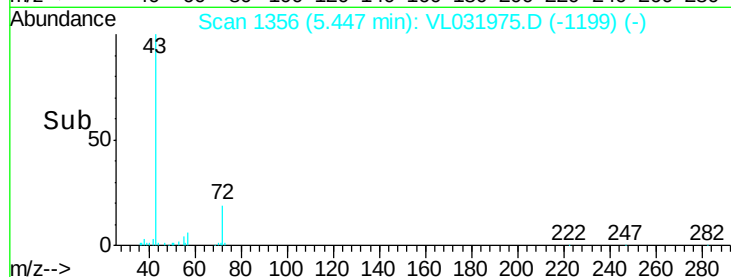
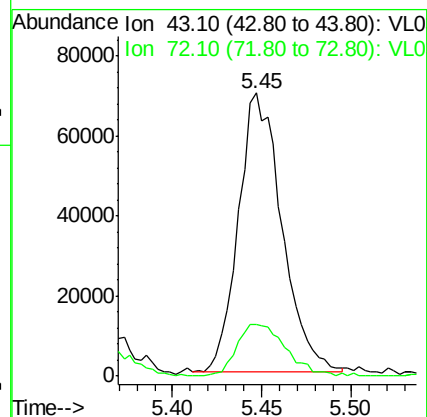
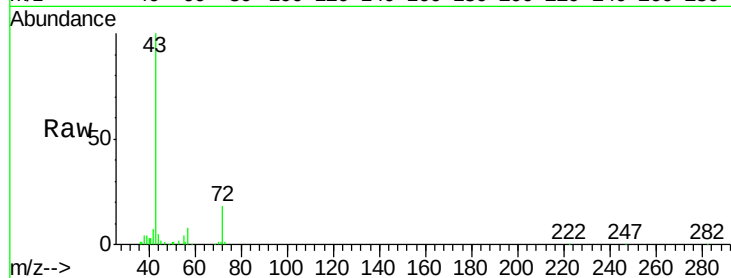
43 100

72 21.2 18.3 27.5

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#35

Carbon Tetrachloride

Concen: 0.07 ppbv m

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VL031975.D

Acq: 3 May 2018 23:22

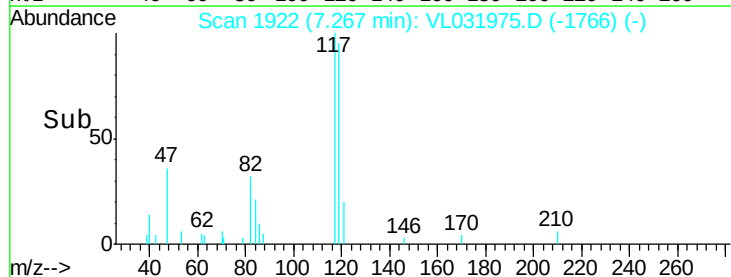
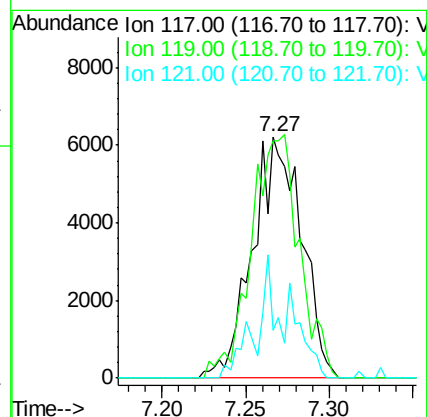
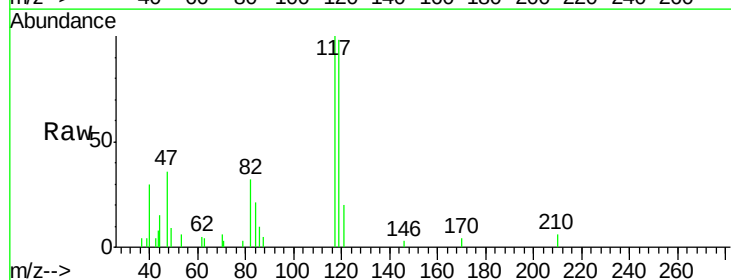
Tgt Ion: 117 Resp: 12747

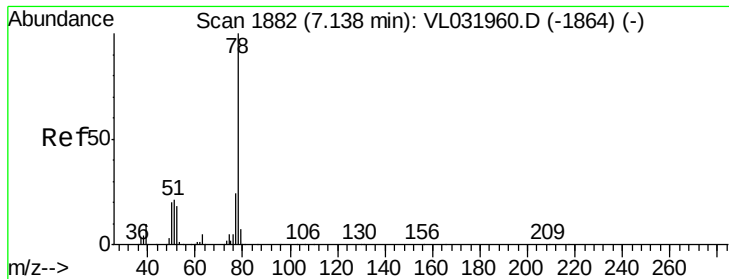
Ion Ratio Lower Upper

117 100

119 98.2 76.4 114.6

121 19.7 24.4 36.6#





#36

Benzene

Concen: 0.11 ppbv m

RT: 7.14 min Scan# 1882

Delta R.T. 0.00 min

Lab File: VL031975.D

Acq: 3 May 2018 23:22

Instrument :

MSVOA_L

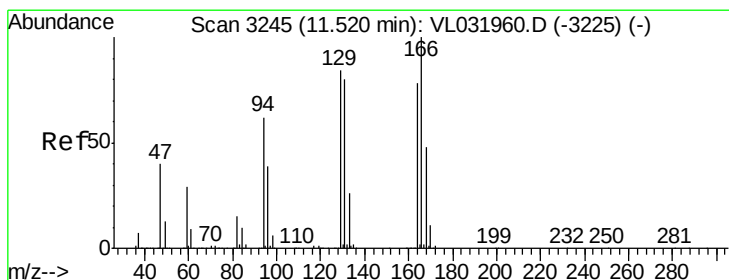
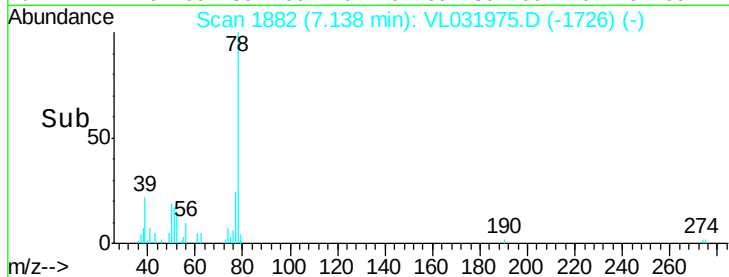
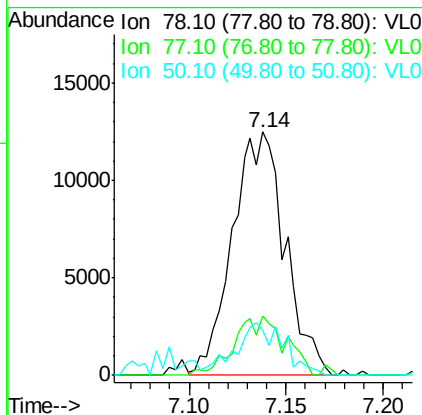
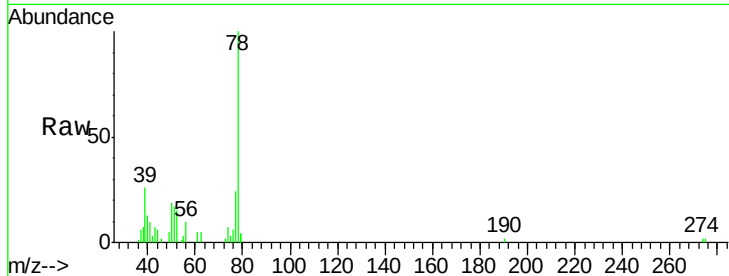
ClientSampleId :

IA3

Tot Ion:	78	Resp:	23605
Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.2	28.8
50	18.5	16.2	24.4

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#52

Tetrachloroethene

Concen: 0.07 ppbv m

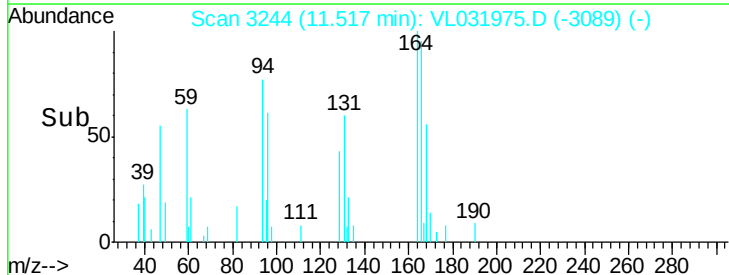
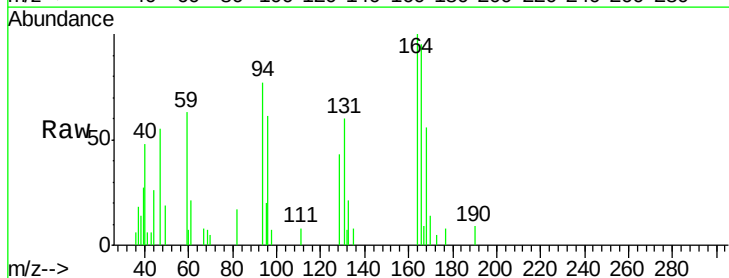
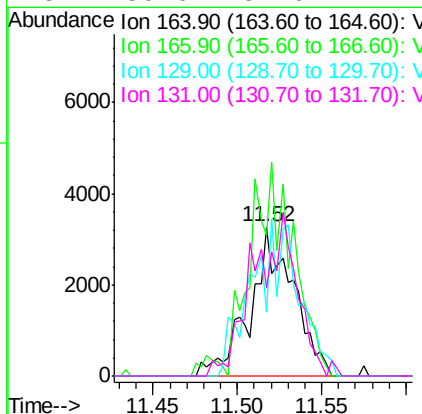
RT: 11.52 min Scan# 3244

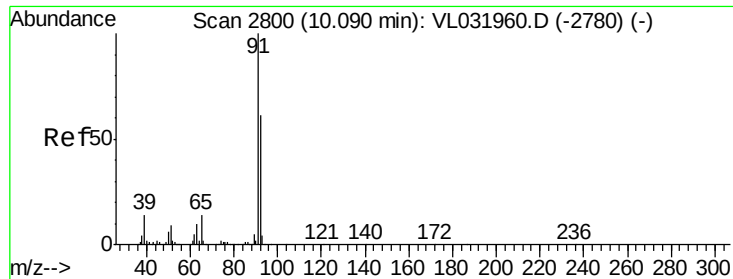
Delta R.T. -0.00 min

Lab File: VL031975.D

Acq: 3 May 2018 23:22

Tgt Ion:	164	Resp:	5806
Ion	Ratio	Lower	Upper
164	100		
166	95.0	101.9	152.9#
129	43.0	85.8	128.6#
131	59.6	81.6	122.4#





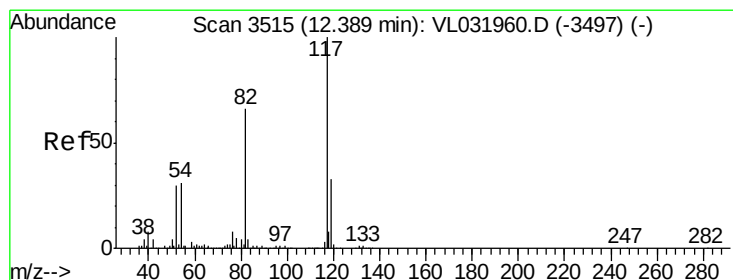
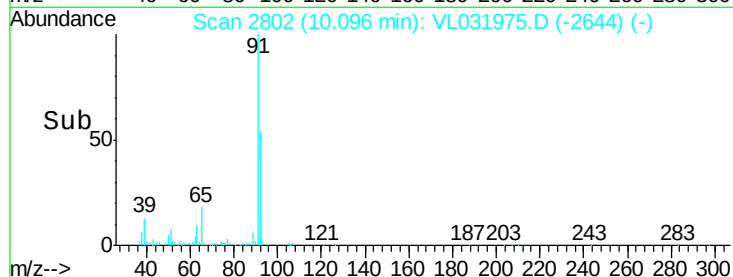
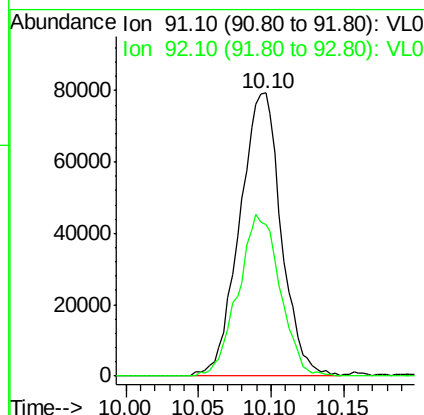
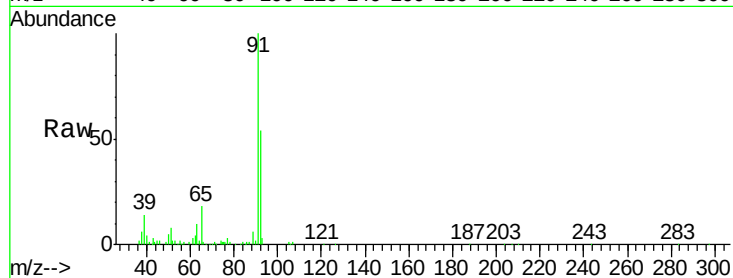
#53
Toluene
Concen: 0.69 ppbv
RT: 10.10 min Scan# 2802
Delta R.T. 0.01 min
Lab File: VL031975.D
Acq: 3 May 2018 23:22

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tot Ion: 91 Resp: 158371
Ion Ratio Lower Upper
91 100
92 57.5 47.4 71.2

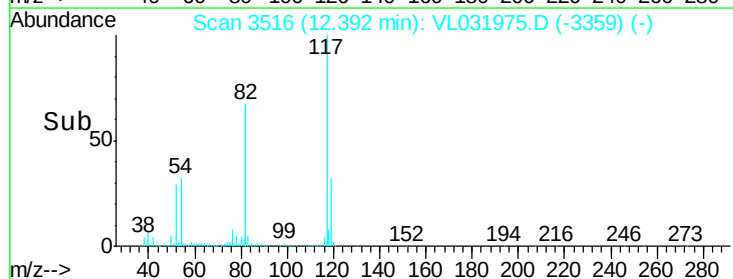
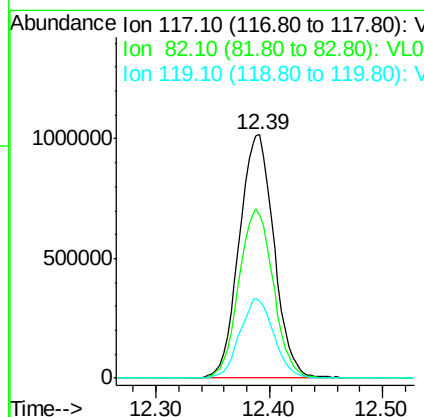
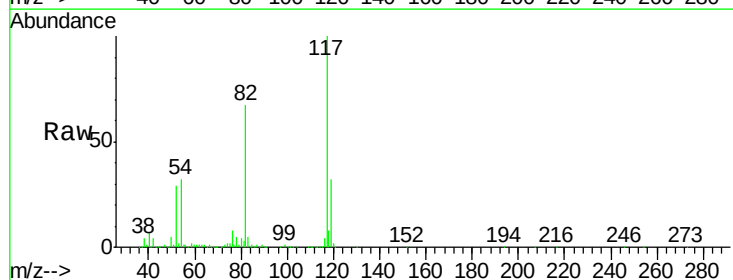
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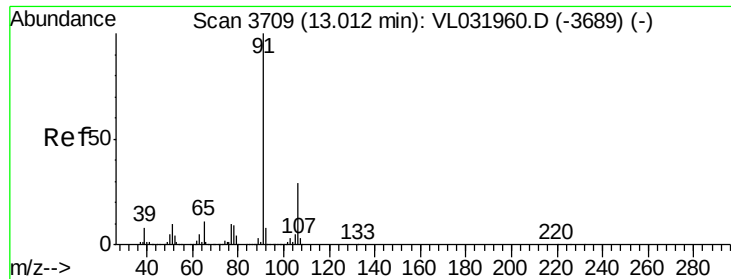
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#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.39 min Scan# 3516
Delta R.T. 0.00 min
Lab File: VL031975.D
Acq: 3 May 2018 23:22

Tgt Ion: 117 Resp: 2175157
Ion Ratio Lower Upper
117 100
82 69.1 51.6 77.4
119 32.2 44.2 66.4#





#58

Ethyl Benzene

Concen: 0.18 ppbv

RT: 13.01 min Scan# 3709

Delta R.T. 0.00 min

Lab File: VL031975.D

Acq: 3 May 2018 23:22

Instrument :

MSVOA_L

ClientSampled :

IA3

Tot Ion: 91 Resp: 56605

Ion Ratio Lower Upper

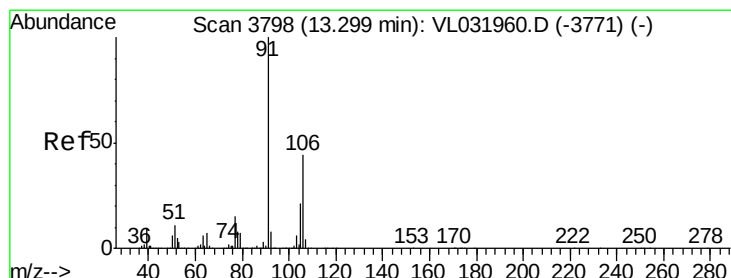
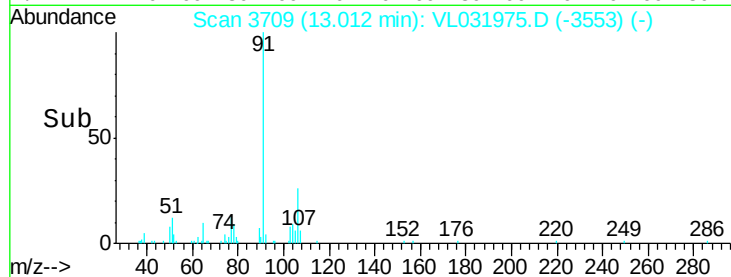
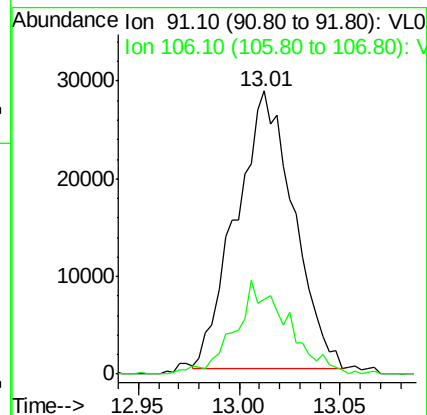
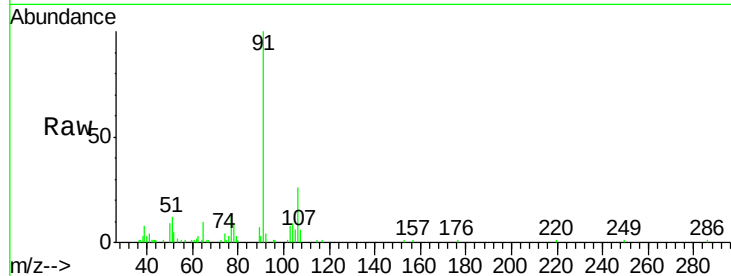
91 100

106 25.5 23.4 35.2

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#59

m/p-Xylene

Concen: 0.85 ppbv m

RT: 13.27 min Scan# 3788

Delta R.T. -0.03 min

Lab File: VL031975.D

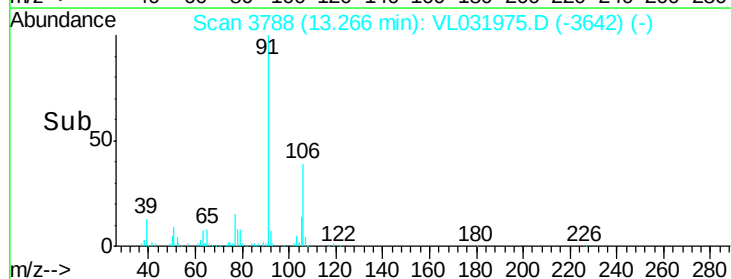
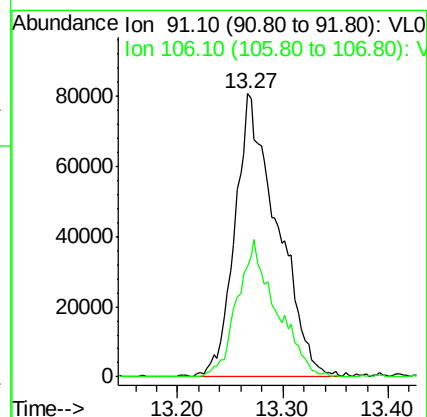
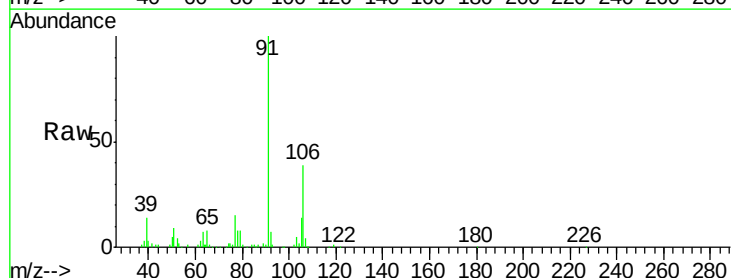
Acq: 3 May 2018 23:22

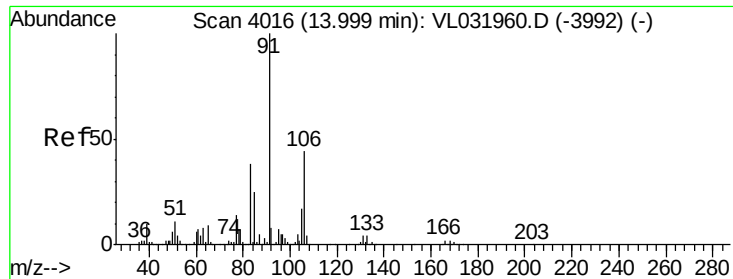
Tgt Ion: 91 Resp: 224532

Ion Ratio Lower Upper

91 100

106 44.6 35.9 53.9





#60

o-Xylene

Concen: 0.33 ppbv m

RT: 14.00 min Scan# 4016

Delta R.T. 0.00 min

Lab File: VL031975.D

Acq: 3 May 2018 23:22

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tot Ion: 91 Resp: 86528

Ion Ratio Lower Upper

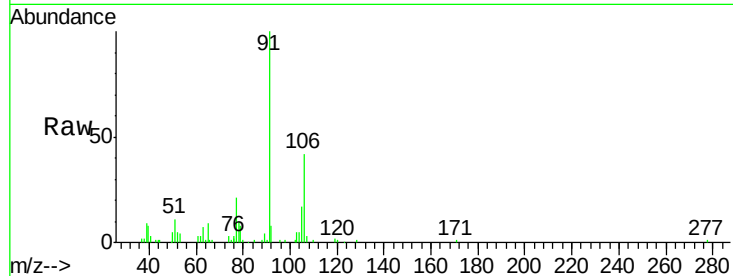
91 100

106 43.1 21.5 64.5

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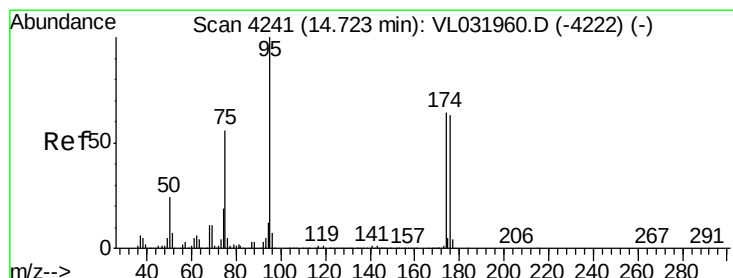
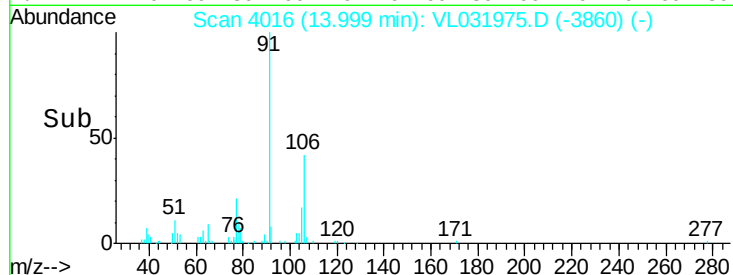
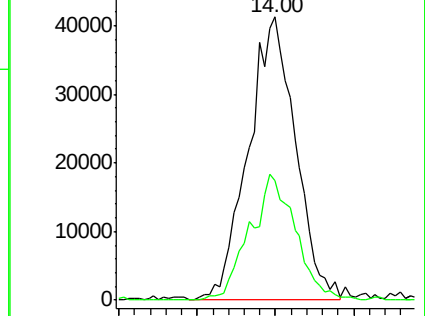
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.26 ppbv

RT: 14.72 min Scan# 4241

Delta R.T. 0.00 min

Lab File: VL031975.D

Acq: 3 May 2018 23:22

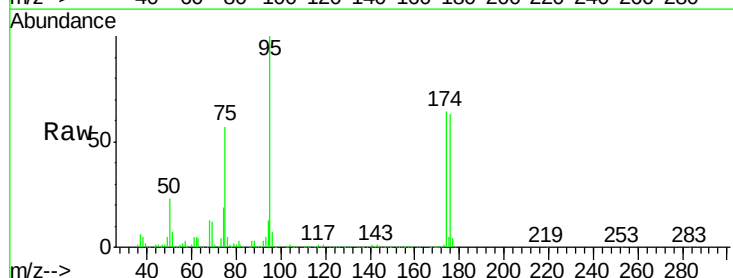
Tgt Ion: 95 Resp: 1730489

Ion Ratio Lower Upper

95 100

174 66.1 53.0 79.6

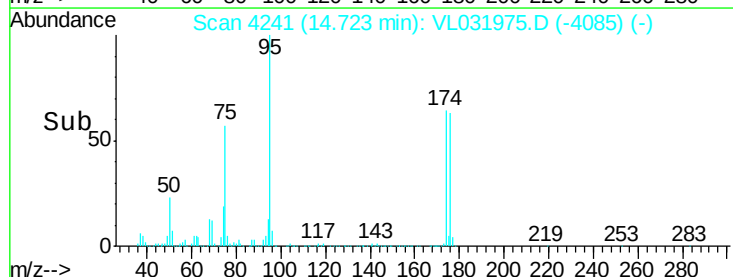
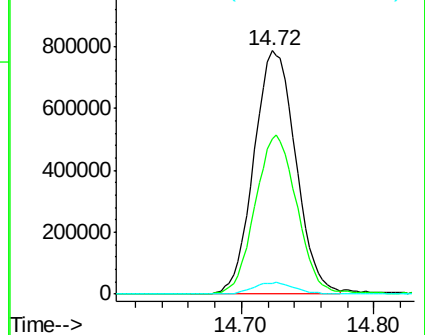
175 4.8 3.9 5.9

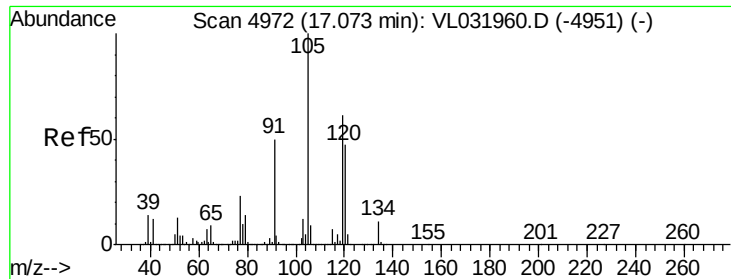


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.15 ppbv m
 RT: 17.07 min Scan# 4970
 Delta R.T. -0.01 min
 Lab File: VL031975.D
 Acq: 3 May 2018 23:22

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Tot Ion:	105	Resp:	41227
Ion Ratio	Lower	Upper	
105	100		
120	33.9	37.8	56.6#
91	18.6	40.5	60.7#
77	17.0	18.2	27.2#

Manual Integrations
 APPROVED

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 5/4/2018 5:01:09 PM

