

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL035014.D
 Acq On : 13 May 2020 9:17
 Operator : SY/AP
 Sample : L2566-07 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-OFF-SITE

Manual Integrations
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 5/18/2020 2:08:47 PM

Quant Time: May 15 15:30:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	807622	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	1945444	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.11	117	1808925	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1442471	9.85	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.58	45	11252m	0.852	ppbv	
15) Acetone	3.83	43	124801	1.169	ppbv	95
19) Isopropyl Alcohol	3.96	45	9002	0.126	ppbv #	94
20) Methylene Chloride	4.31	84	20276	0.574	ppbv #	75
22) trans-1,2-Dichloroethene	4.85	96	34717	0.960	ppbv	98
26) Hexane	5.66	57	18815m	0.242	ppbv	
29) Chloroform	5.73	83	397761	3.127	ppbv	97
31) cis-1,2-Dichloroethene	5.52	61	1263885	16.660	ppbv	96
36) Benzene	6.89	78	15902m	0.099	ppbv	
38) Trichloroethene	7.84	130	10455073	168.256	ppbv	91
50) 4-Methyl-2-Pentanone	8.76	43	74954m	0.435	ppbv	
52) Tetrachloroethene	11.30	164	20529875	359.964	ppbv	91
53) Toluene	9.81	91	199061	1.171	ppbv	99
58) Ethyl Benzene	12.73	91	436284	1.950	ppbv	95
59) m/p-Xylene	12.99	91	1532030	7.784	ppbv #	60
60) o-Xylene	13.71	91	486419	2.505	ppbv	98
61) Styrene	13.55	104	26860m	0.219	ppbv	
62) Isopropylbenzene	14.69	105	355998	1.228	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	34123	0.148	ppbv #	67

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

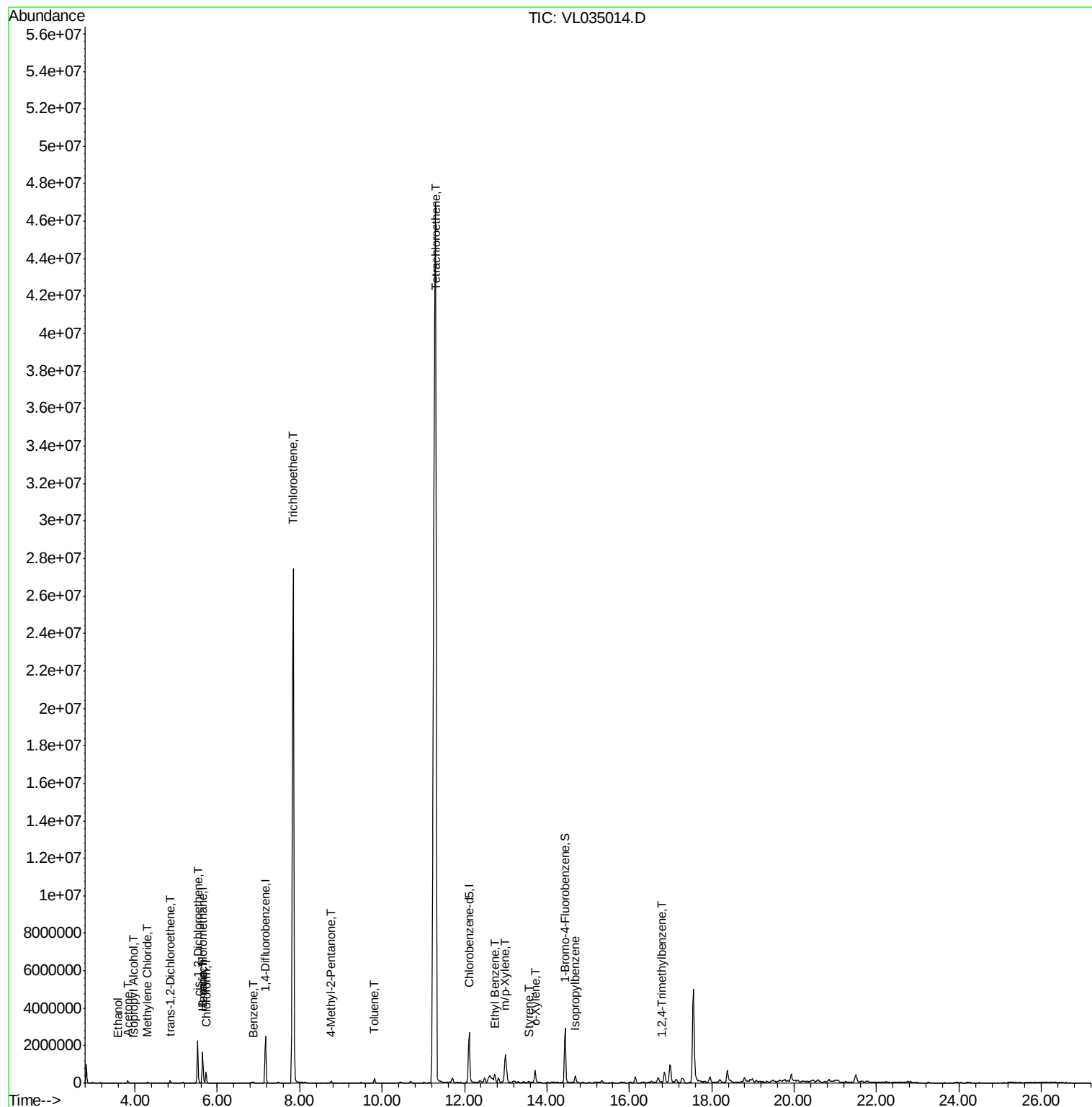
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051220\
Data File : VL035014.D
Acq On : 13 May 2020 9:17
Operator : SY/AP
Sample : L2566-07 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

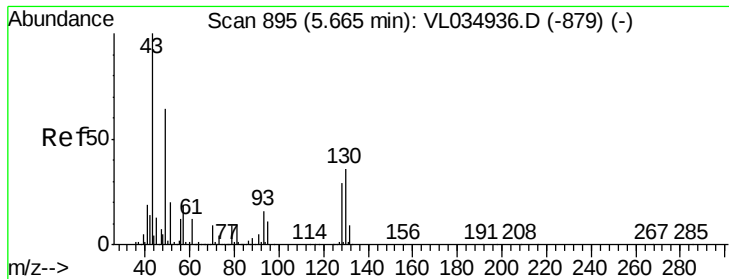
Instrument :
MSVOA_L
ClientSampleId :
SG-OFF-SITE

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Quant Time: May 15 15:30:39 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL035014.D

Acq: 13 May 2020 9:17

Instrument :

MSVOA_L

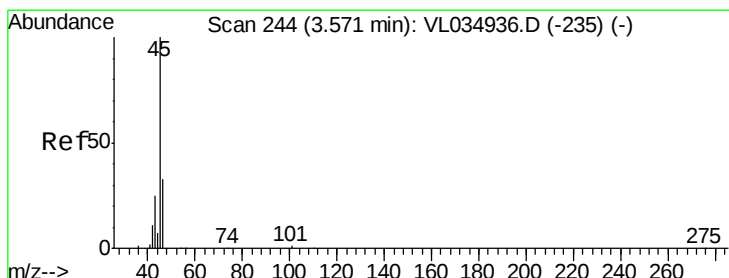
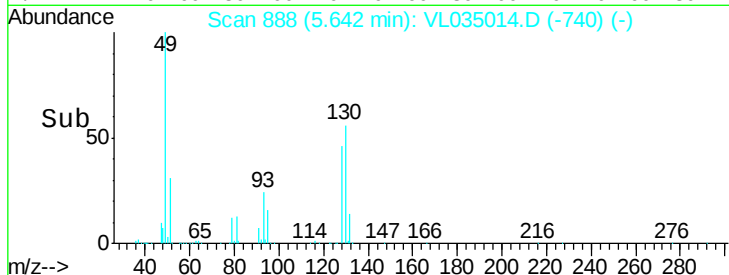
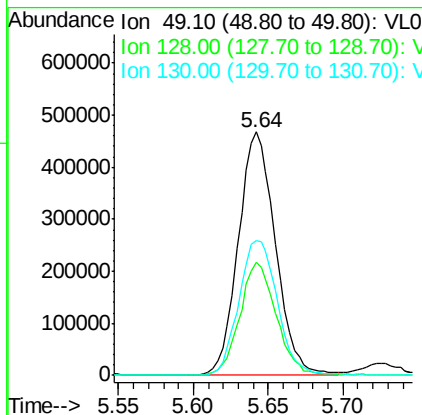
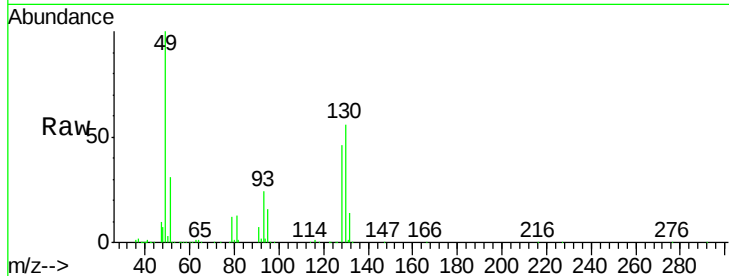
ClientSampleId :

SG-OFF-SITE

Tot Ion:	49	Resp:	807622
Ion	Ratio	Lower	Upper
49	100		
128	46.0	22.1	66.5
130	58.3	29.1	87.3

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#13

Ethanol

Concen: 0.852 ppbv m

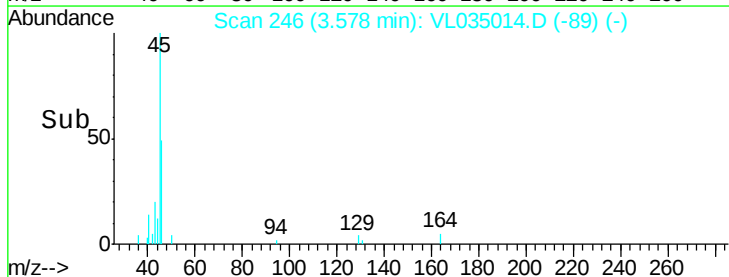
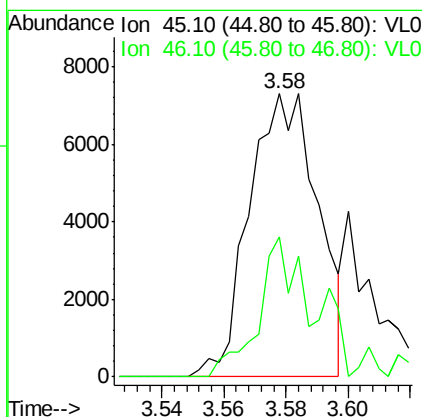
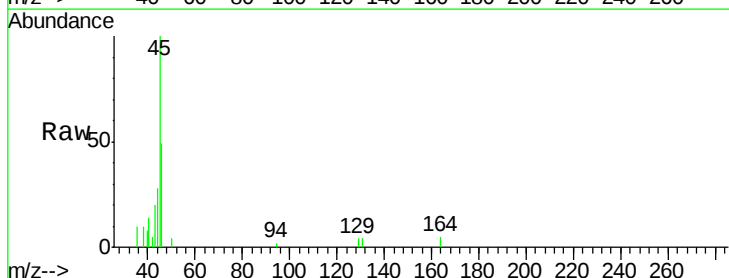
RT: 3.58 min Scan# 246

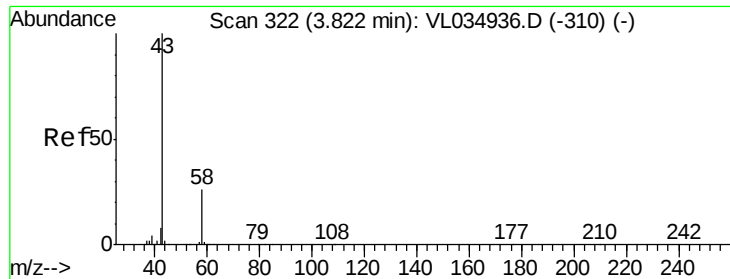
Delta R.T. 0.01 min

Lab File: VL035014.D

Acq: 13 May 2020 9:17

Tgt Ion:	45	Resp:	11252
Ion	Ratio	Lower	Upper
45	100		
46	40.7	14.3	57.3





#15

Acetone

Concen: 1.169 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.00 min

Lab File: VL035014.D

Acq: 13 May 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

SG-OFF-SITE

Tot Ion: 43 Resp: 124801

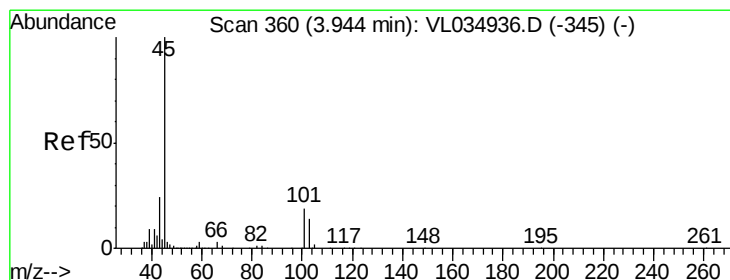
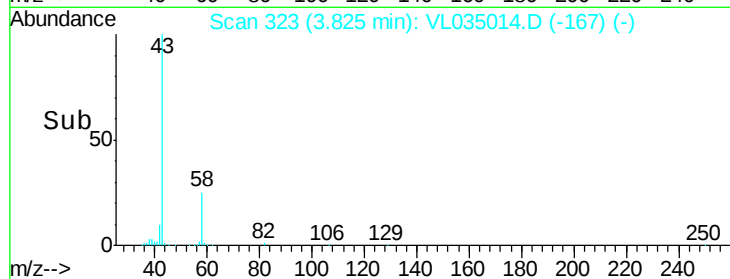
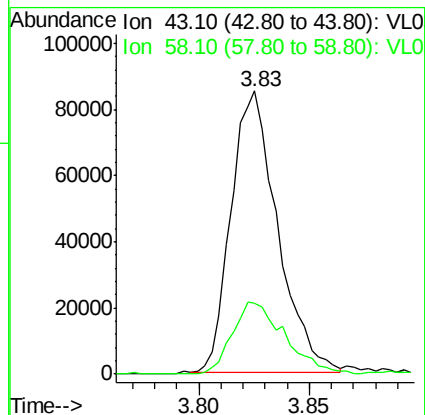
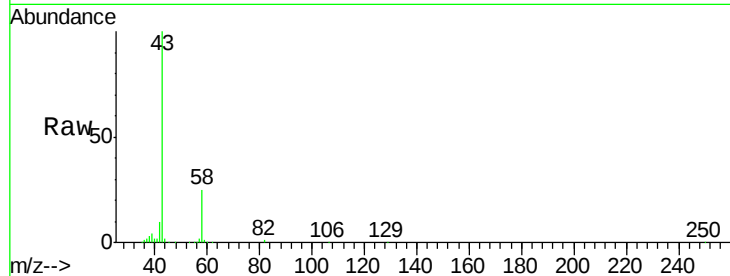
Ion Ratio Lower Upper

43 100

58 29.7 21.7 32.5

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#19

Isopropyl Alcohol

Concen: 0.126 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL035014.D

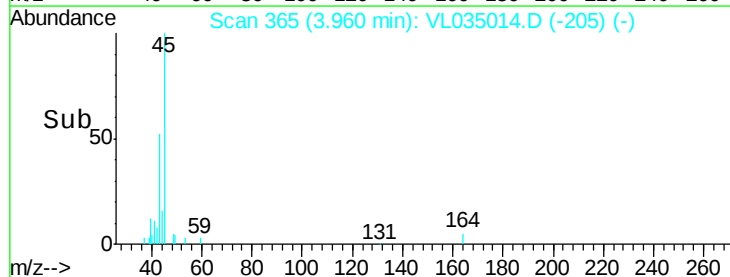
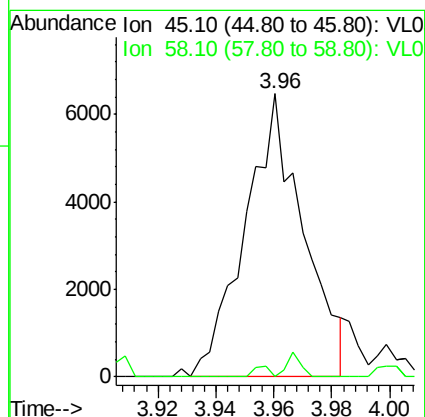
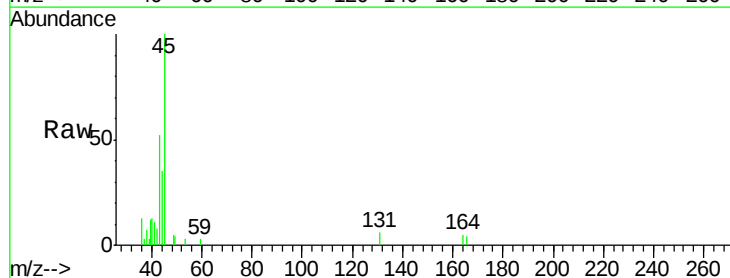
Acq: 13 May 2020 9:17

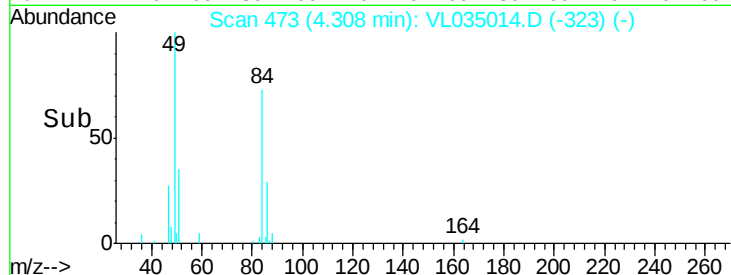
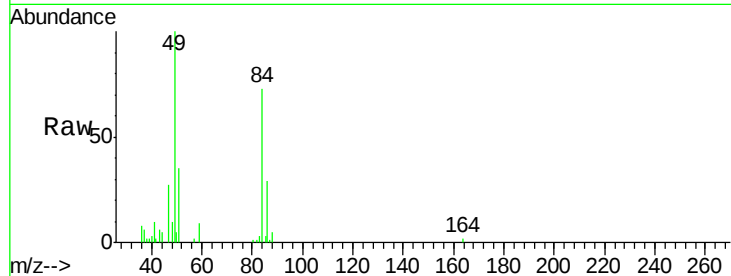
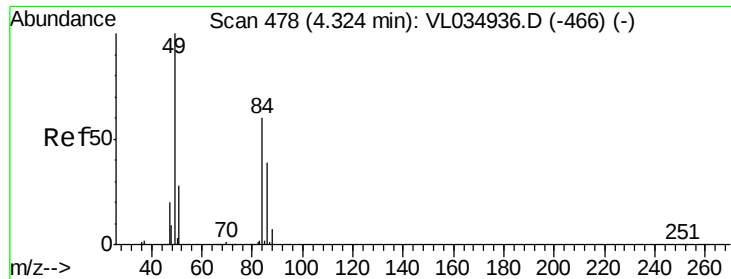
Tgt Ion: 45 Resp: 9002

Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#





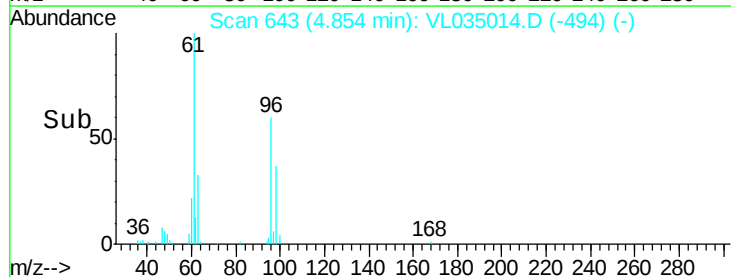
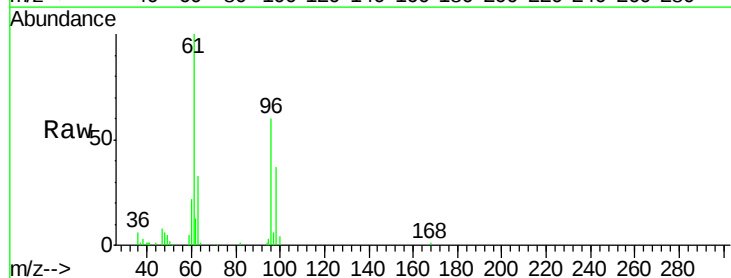
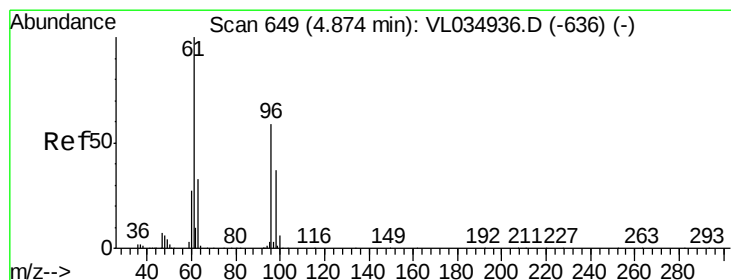
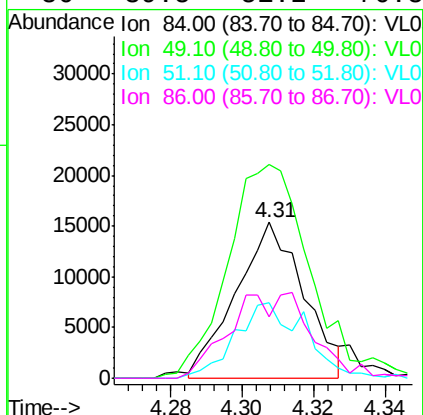
#20
Methvlene Chloride
Concen: 0.574 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL035014.D
Acq: 13 May 2020 9:17

Tot Ion	Ratio	Lower	Upper
84	100		
49	126.4	132.5	198.7#
51	47.9	38.4	57.6
86	39.5	51.2	76.8#

Instrument :
MSVOA_L
ClientSampleId :
SG-OFF-SITE

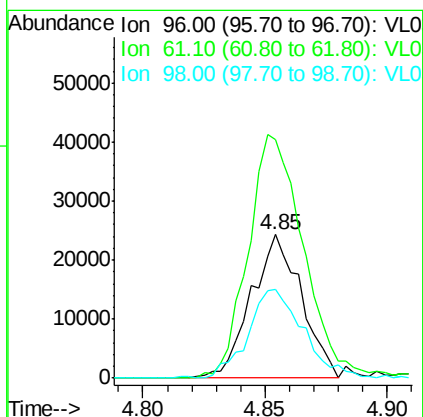
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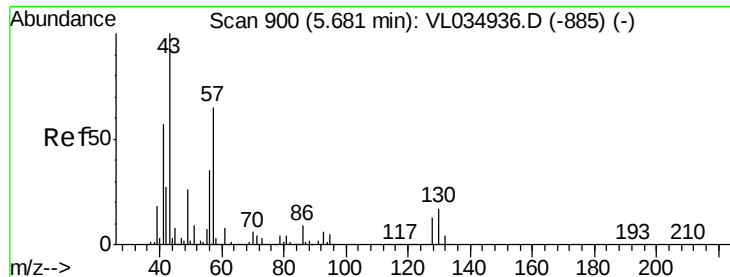
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#22
trans-1,2-Dichloroethene
Concen: 0.960 ppbv
RT: 4.85 min Scan# 643
Delta R.T. -0.02 min
Lab File: VL035014.D
Acq: 13 May 2020 9:17

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.2	135.3	202.9
98	60.5	50.4	75.6





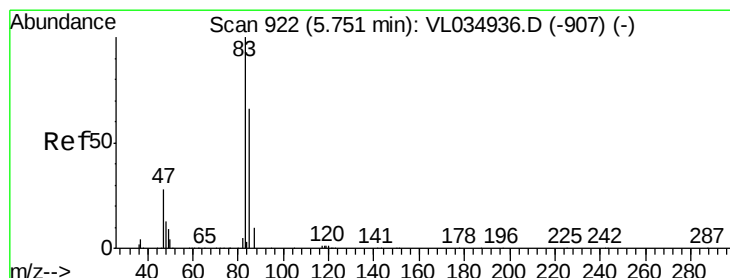
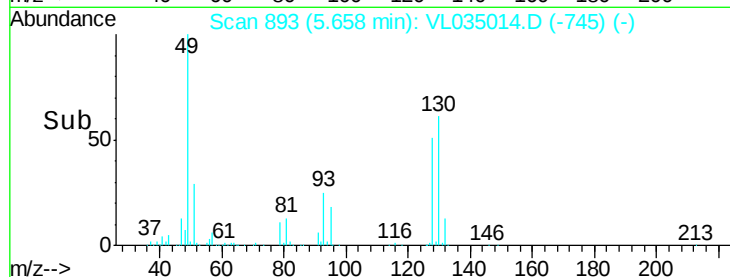
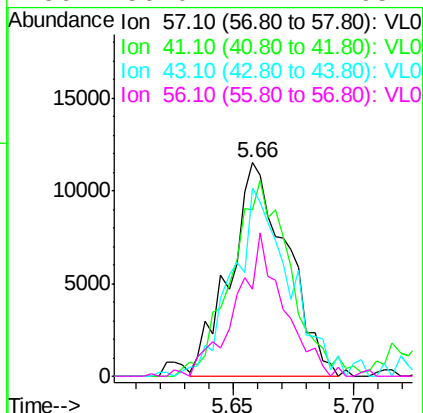
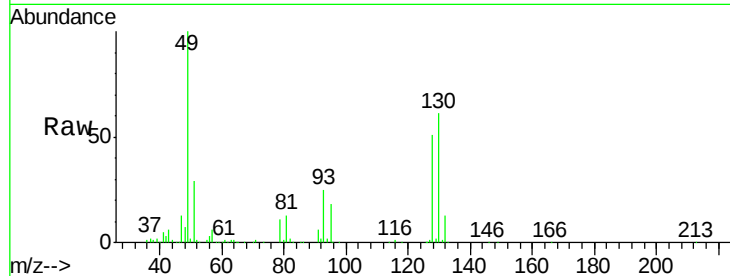
#26
Hexane
Concen: 0.242 ppbv m
RT: 5.66 min Scan# 893
Delta R.T. -0.02 min
Lab File: VL035014.D
Acq: 13 May 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
SG-OFF-SITE

Tot Ion	Ion	Ratio	Resp	Lower	Upper
57	100		18815		
41	94.9	72.7	109.1		
43	88.9	182.1	273.1#		
56	56.0	42.2	63.2		

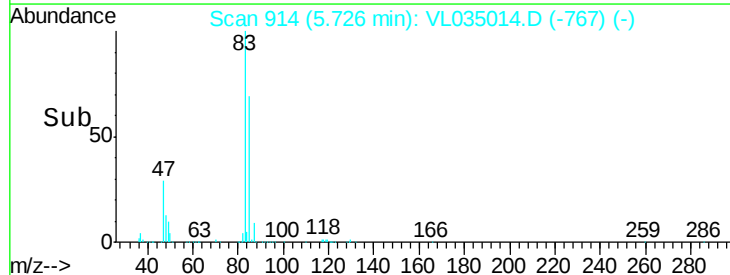
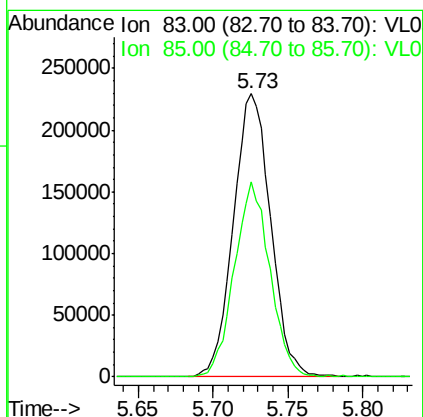
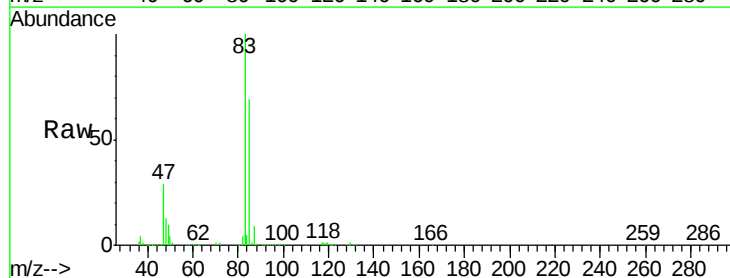
Manual Integrations
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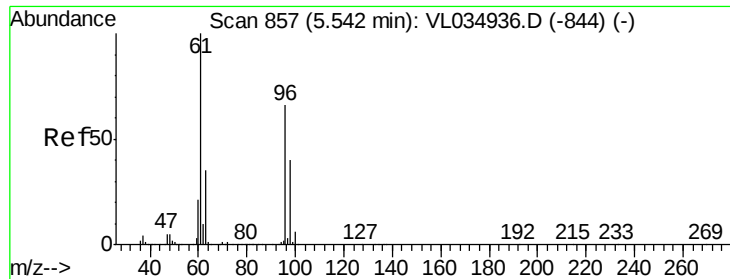
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#29
Chloroform
Concen: 3.127 ppbv
RT: 5.73 min Scan# 914
Delta R.T. -0.03 min
Lab File: VL035014.D
Acq: 13 May 2020 9:17

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		397761		
85	68.7	53.0	79.6		





#31

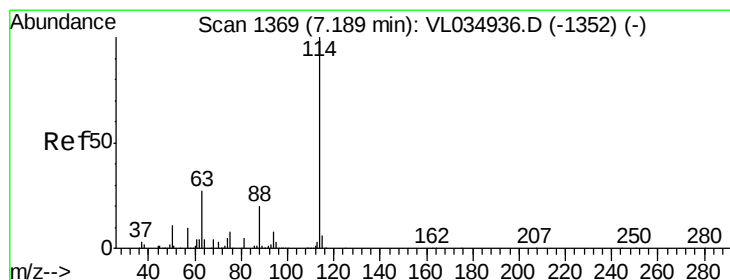
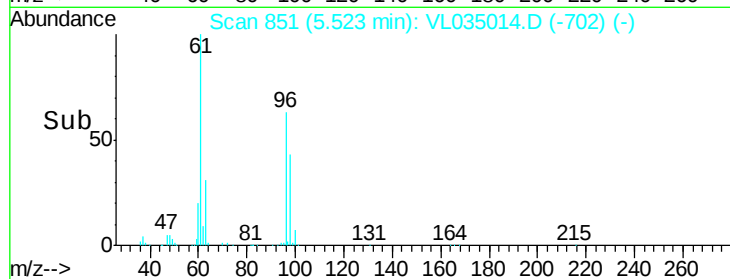
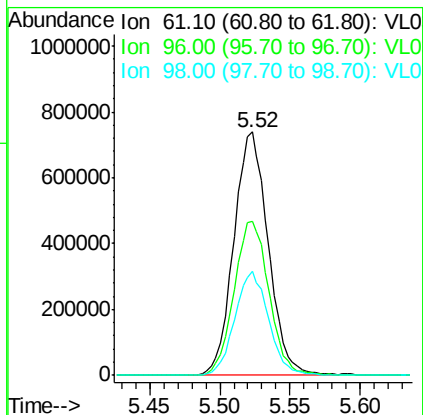
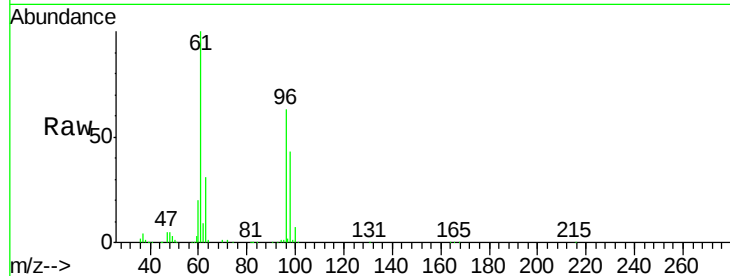
cis-1,2-Dichloroethene
Concen: 16.660 ppbv
RT: 5.52 min Scan# 851
Delta R.T. -0.02 min
Lab File: VL035014.D
Acq: 13 May 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
SG-OFF-SITE

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.3	53.0	79.6
98	42.6	32.2	48.2

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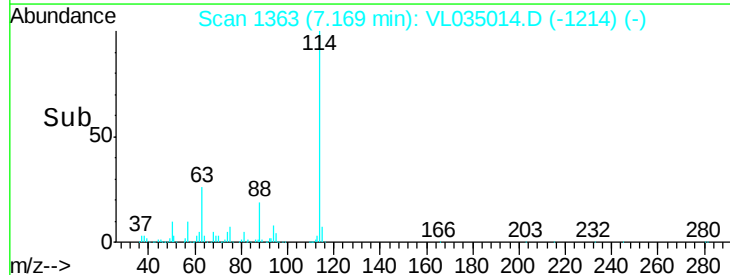
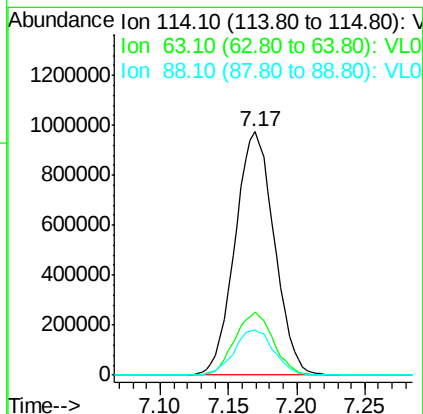
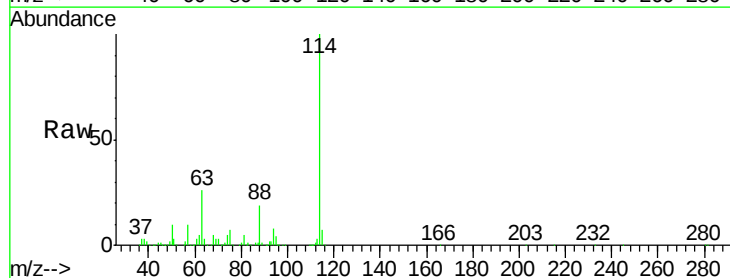
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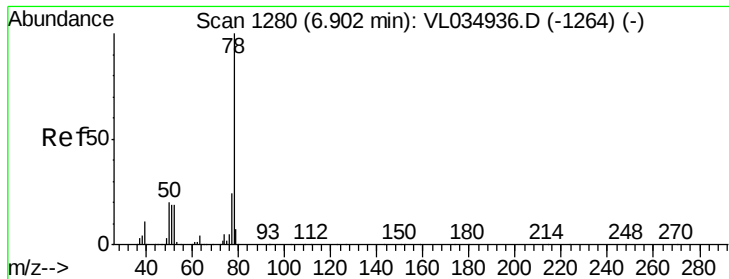


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.02 min
Lab File: VL035014.D
Acq: 13 May 2020 9:17

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.4	22.2	33.4
88	18.7	15.5	23.3





#36

Benzene

Concen: 0.099 ppbv m

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL035014.D

Acq: 13 May 2020 9:17

Instrument :

MSVOA_L

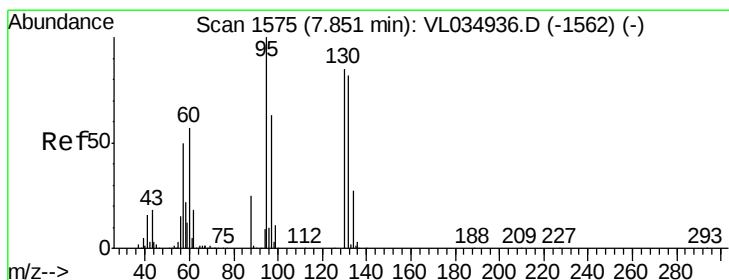
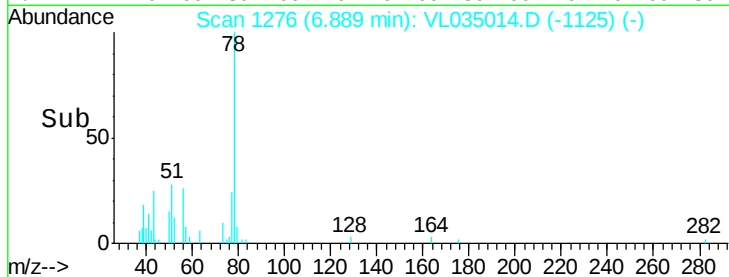
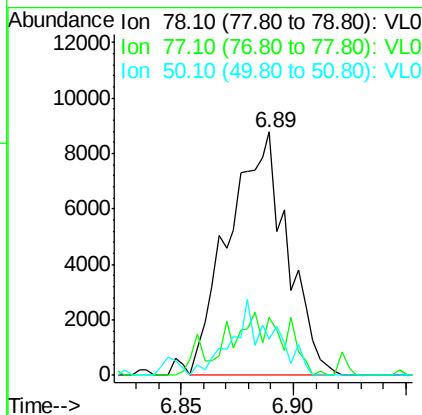
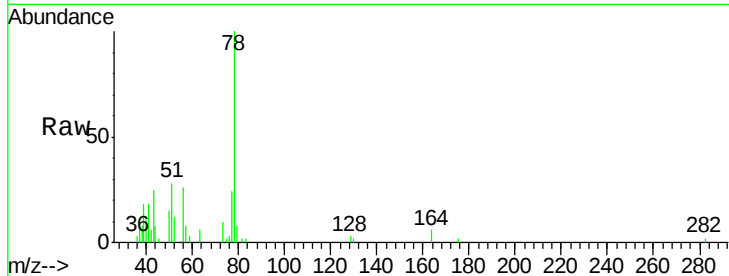
ClientSampleId :

SG-OFF-SITE

Tot Ion:	78	Resp:	15902
Ion Ratio	Lower	Upper	
78	100		
77	24.0	19.0	28.6
50	15.0	15.8	23.8#

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#38

Trichloroethene

Concen: 168.256 ppbv

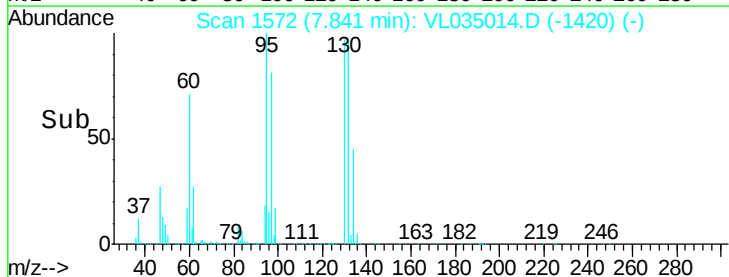
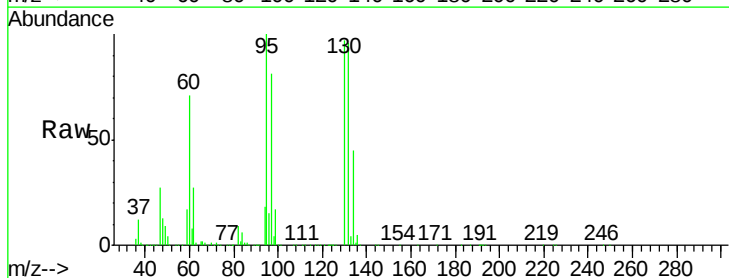
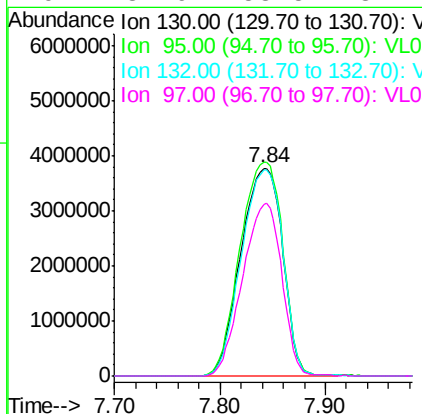
RT: 7.84 min Scan# 1572

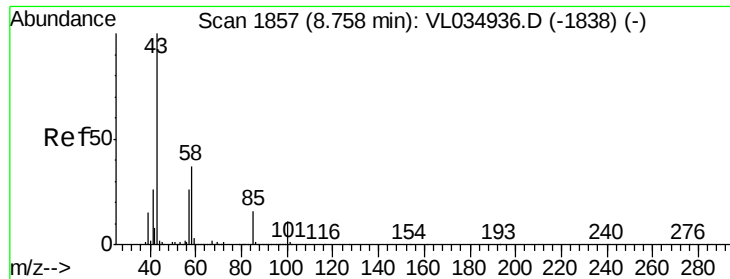
Delta R.T. -0.01 min

Lab File: VL035014.D

Acq: 13 May 2020 9:17

Tgt Ion:	130	Resp:	10455073
Ion Ratio	Lower	Upper	
130	100		
95	102.8	93.4	140.0
132	99.1	76.4	114.6
97	82.9	58.5	87.7





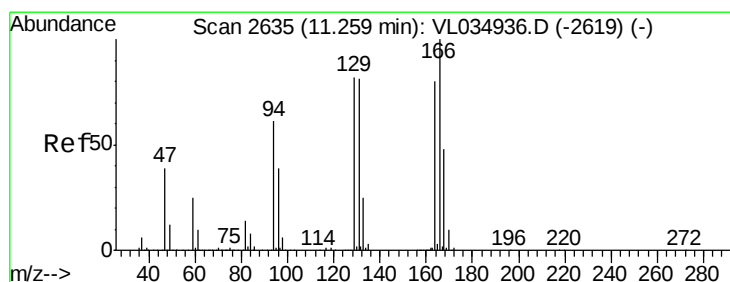
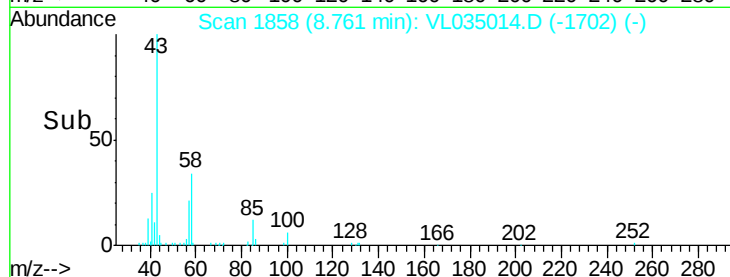
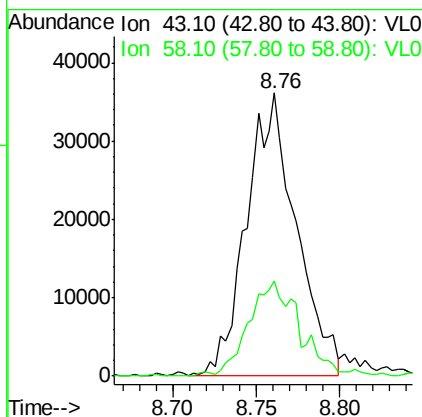
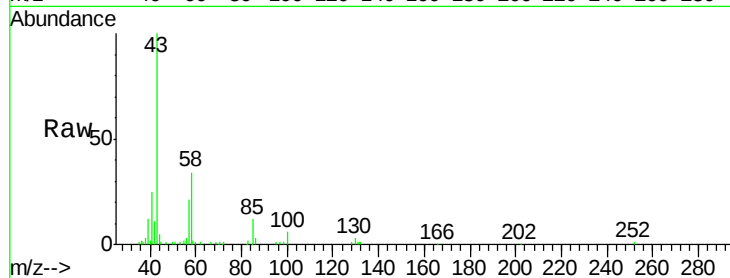
#50
4-Methyl-2-Pentanone
Concen: 0.435 ppbv m
RT: 8.76 min Scan# 1858
Delta R.T. 0.00 min
Lab File: VL035014.D
Acq: 13 May 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
SG-OFF-SITE

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.1	43.7#

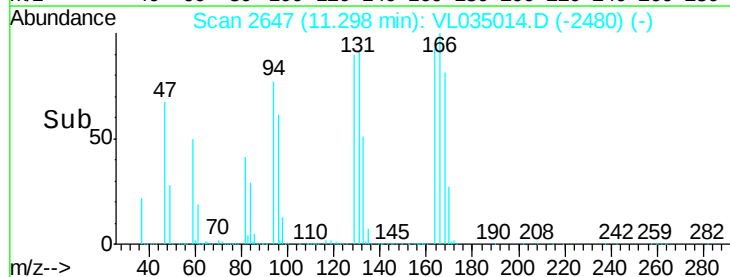
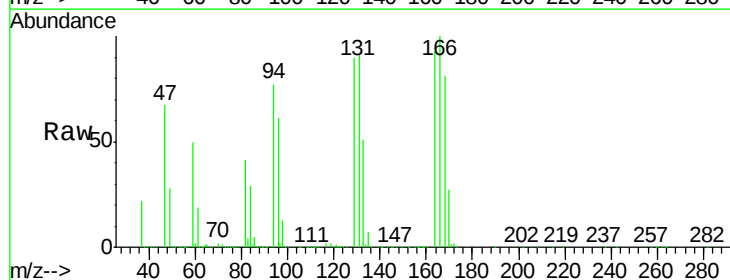
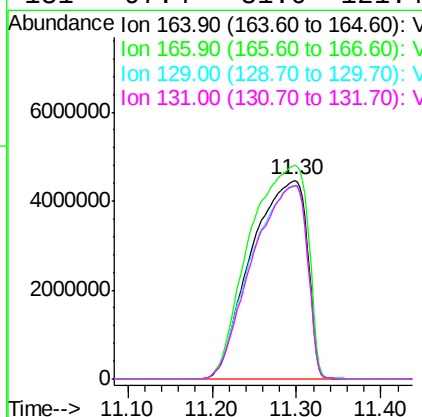
Manual Integrations
APPROVED

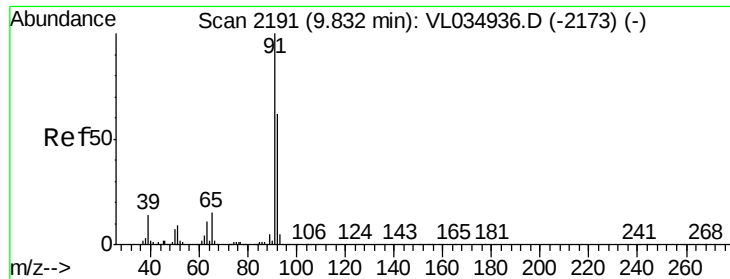
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#52
Tetrachloroethene
Concen: 359.964 ppbv
RT: 11.30 min Scan# 2647
Delta R.T. 0.04 min
Lab File: VL035014.D
Acq: 13 May 2020 9:17

Tgt Ion	Ratio	Lower	Upper
164	100		
166	107.3	100.7	151.1
129	97.1	83.0	124.4
131	97.4	81.0	121.4





#53

Toluene

Concen: 1.171 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035014.D

Acq: 13 May 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

SG-OFF-SITE

Tot Ion: 91 Resp: 199061

Ion Ratio Lower Upper

91 100

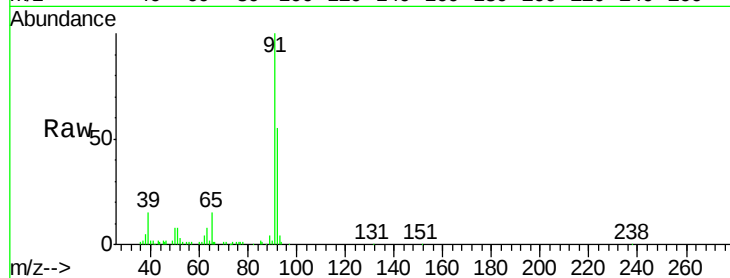
92 60.2 48.6 73.0

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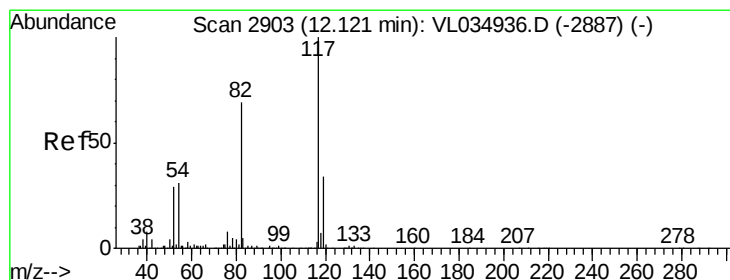
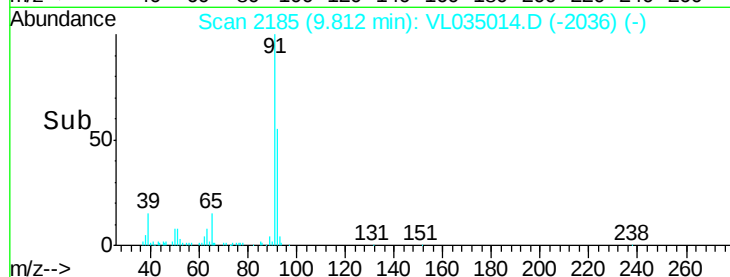
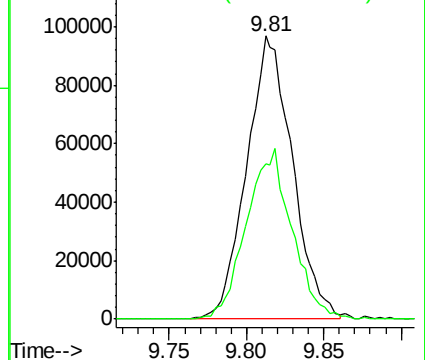
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.01 min

Lab File: VL035014.D

Acq: 13 May 2020 9:17

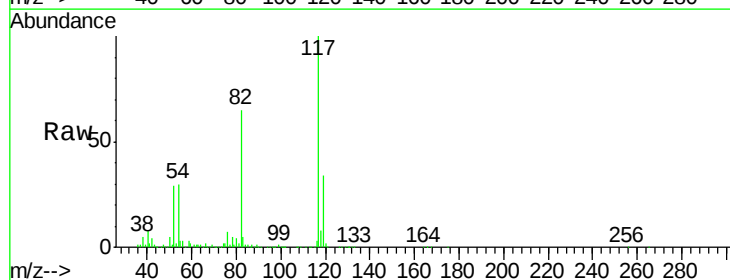
Tgt Ion: 117 Resp: 1808925

Ion Ratio Lower Upper

117 100

82 65.9 53.1 79.7

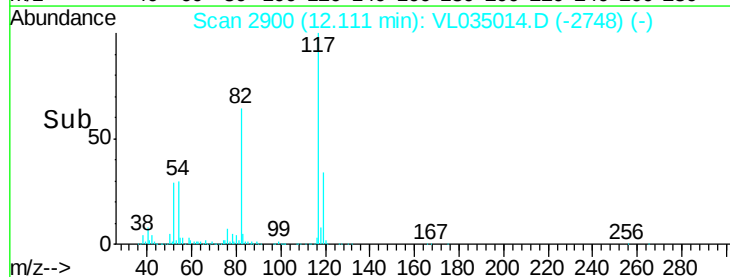
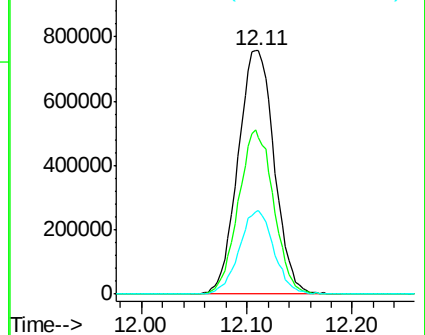
119 32.7 26.7 40.1

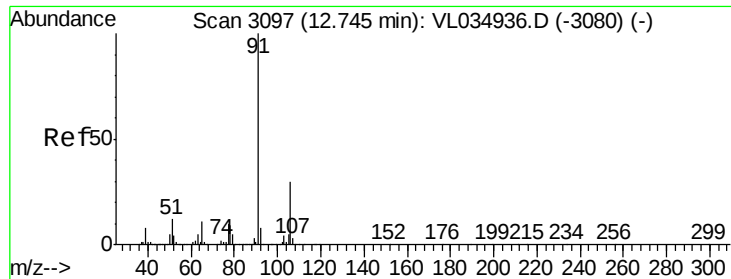


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 1.950 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. -0.01 min

Lab File: VL035014.D

Acq: 13 May 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

SG-OFF-SITE

Tot Ion: 91 Resp: 436284

Ion Ratio Lower Upper

91 100

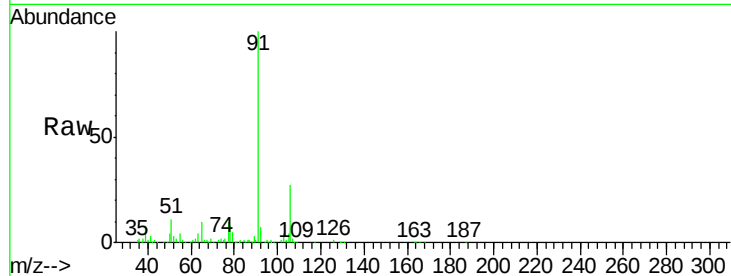
106 27.4 24.2 36.4

Manual Integrations

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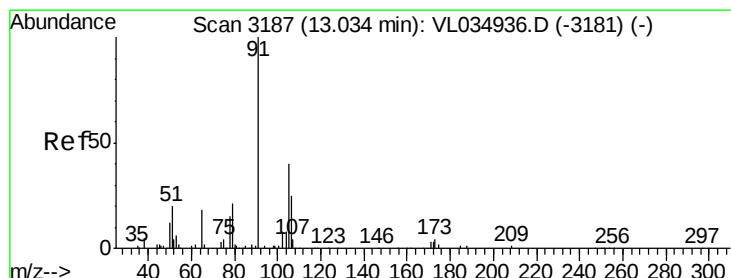
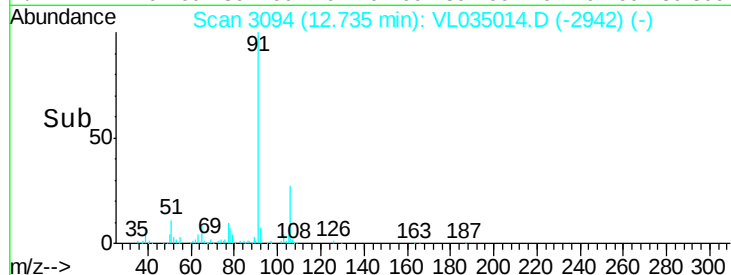
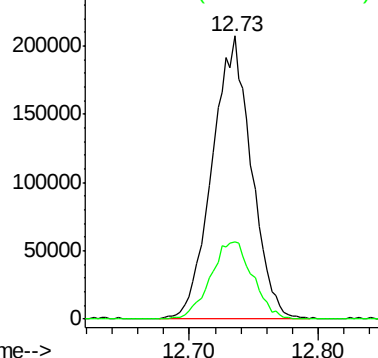
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 7.784 ppbv

RT: 12.99 min Scan# 3173

Delta R.T. -0.05 min

Lab File: VL035014.D

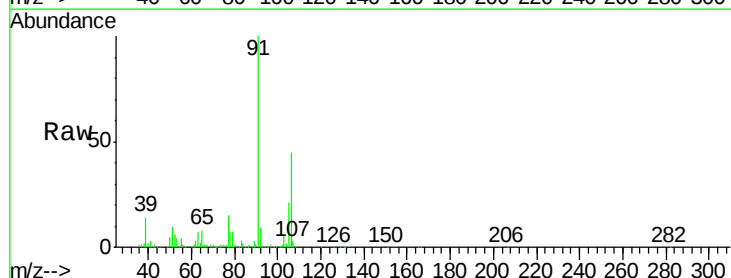
Acq: 13 May 2020 9:17

Tgt Ion: 91 Resp: 1532030

Ion Ratio Lower Upper

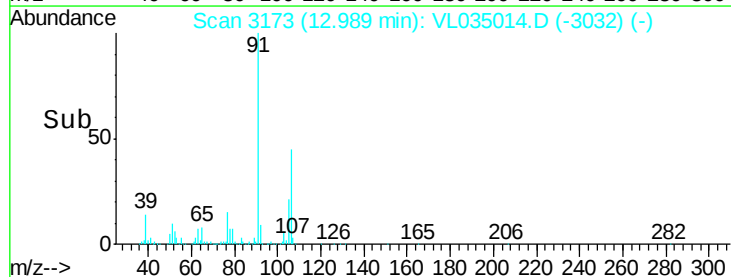
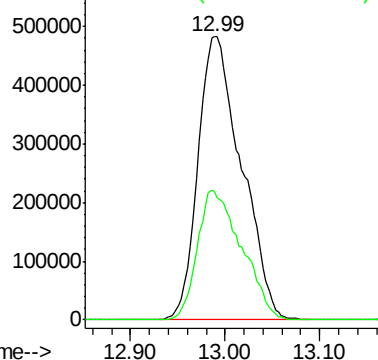
91 100

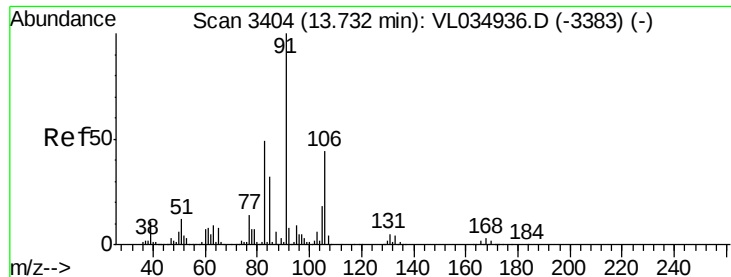
106 46.9 66.0 99.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





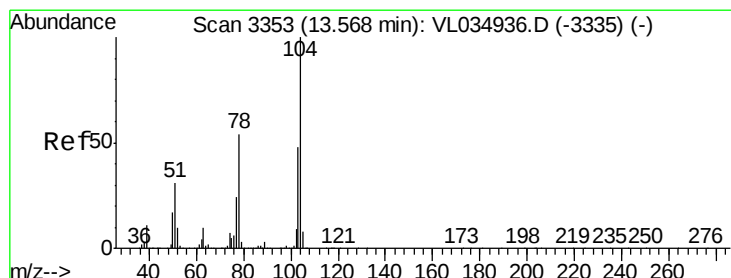
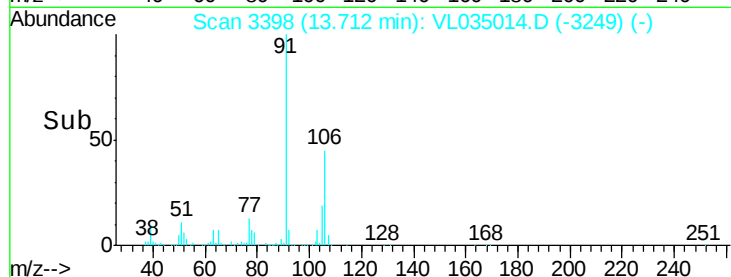
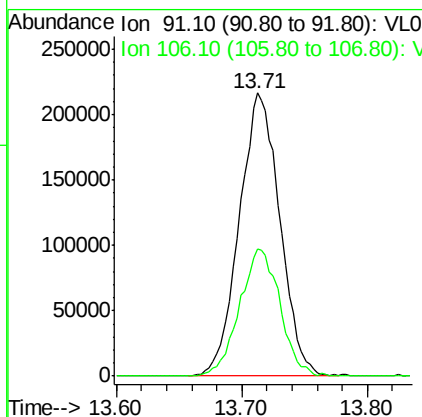
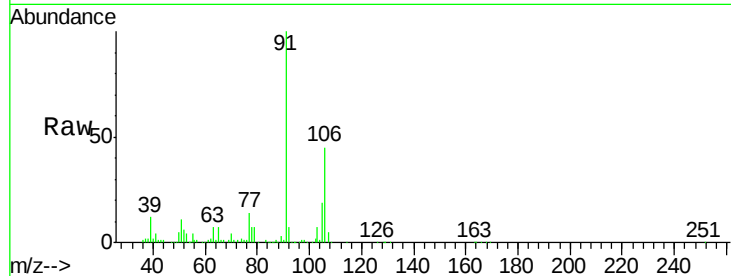
#60
o-Xylene
Concen: 2.505 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. -0.02 min
Lab File: VL035014.D
Acq: 13 May 2020 9:17

Instrument :
MSVOA_L
ClientSampleId :
SG-OFF-SITE

Tot Ion	Ratio	Resp	Lower	Upper
91	100	486419		
106	44.7	21.9	65.5	

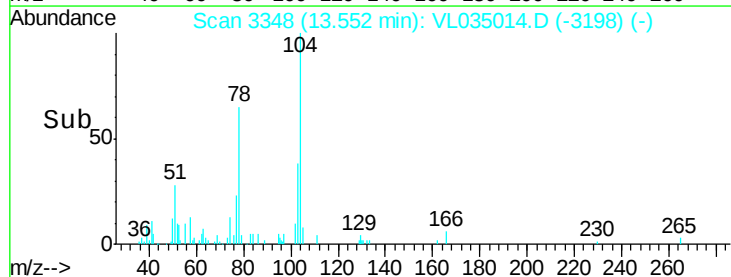
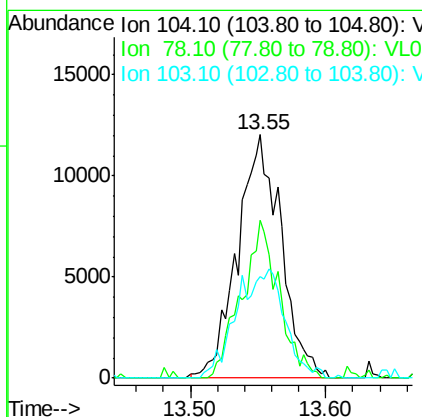
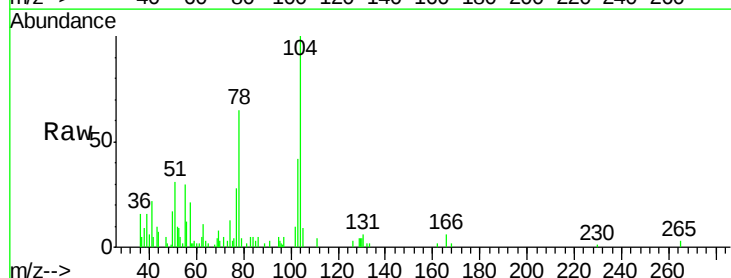
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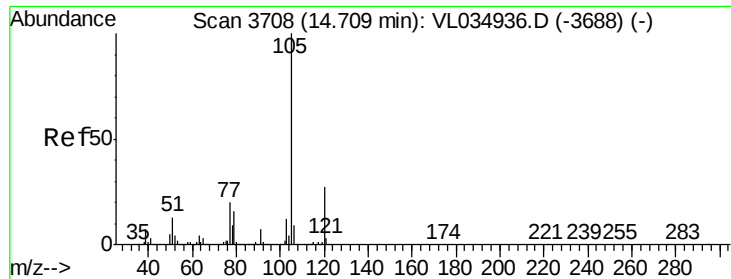
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#61
Styrene
Concen: 0.219 ppbv m
RT: 13.55 min Scan# 3348
Delta R.T. -0.02 min
Lab File: VL035014.D
Acq: 13 May 2020 9:17

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	26860		
78	0.0	43.7	65.5#	
103	50.0	38.8	58.2	





#62

Isopropylbenzene

Concen: 1.228 ppbv

RT: 14.69 min Scan# 3703

Delta R.T. -0.02 min

Lab File: VL035014.D

Acq: 13 May 2020 9:17

Instrument :

MSVOA_L

ClientSampleId :

SG-OFF-SITE

Tot Ion: 105 Resp: 355998

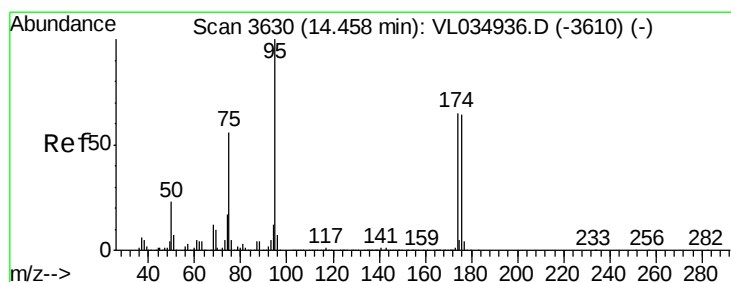
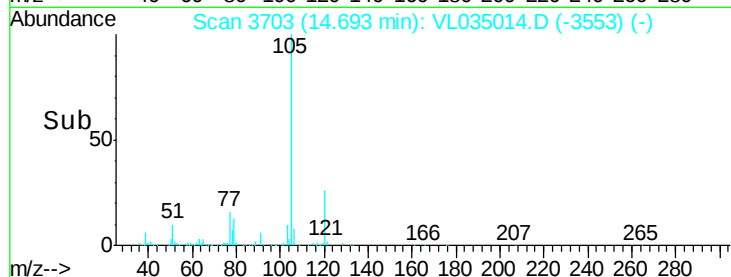
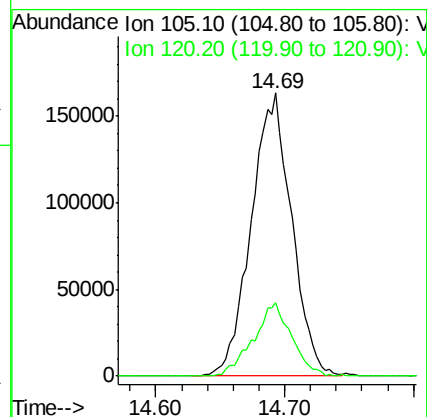
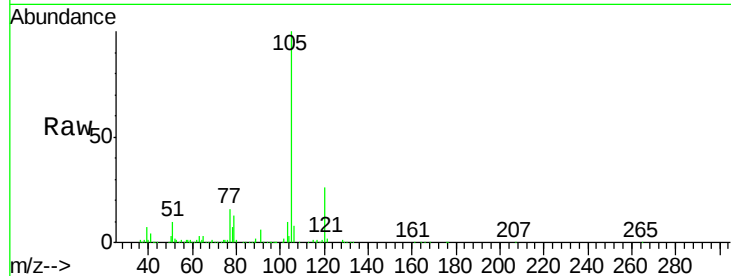
Ion Ratio Lower Upper

105 100

120 24.6 20.6 31.0

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.851 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.02 min

Lab File: VL035014.D

Acq: 13 May 2020 9:17

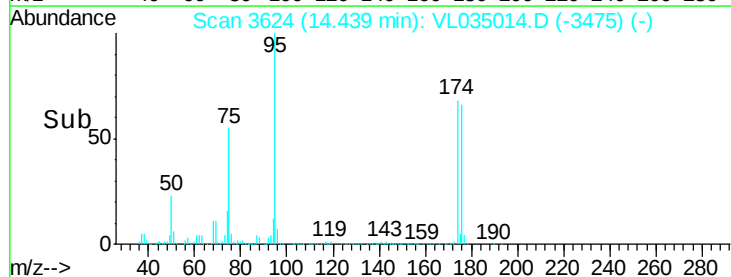
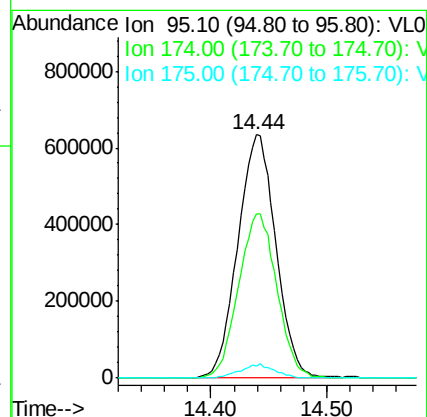
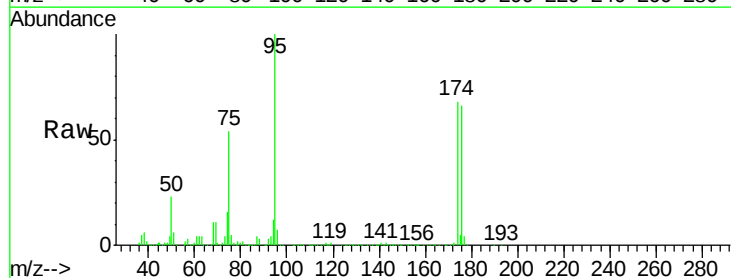
Tgt Ion: 95 Resp: 1442471

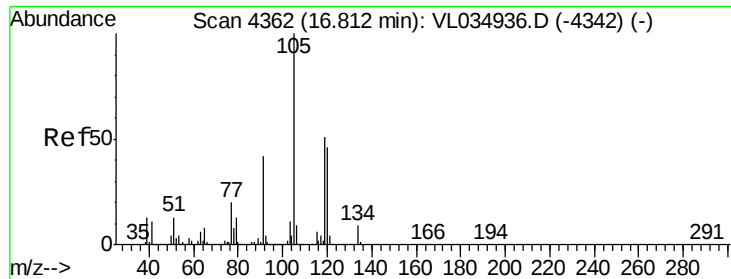
Ion Ratio Lower Upper

95 100

174 68.2 51.5 77.3

175 5.2 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.148 ppbv
 RT: 16.79 min Scan# 4354
 Delta R.T. -0.03 min
 Lab File: VL035014.D
 Acq: 13 May 2020 9:17

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-OFF-SITE

Tot Ion:	105	Resp:	34123
Ion Ratio	Lower	Upper	
105	100		
120	51.6	36.8	55.2
91	3.6	35.4	53.0#
77	8.8	16.2	24.2#

Manual Integrations
 APPROVED

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