

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL034993.D
 Acq On : 12 May 2020 19:01
 Operator : SY/AP
 Sample : L2567-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Manual Integrations
 APPROVED

MMDadoda
 5/13/2020 5:12:02 PM

Quant Time: May 14 13:43:26 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	5.65	49	1092143	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	2562611	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	2376428	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.44	95	1948099	10.13	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	2.98	41	56630m	1.047	ppbv	
10) Heptane	8.13	43	129239	0.953	ppbv	98
13) Ethanol	3.56	45	288151	16.139	ppbv	99
15) Acetone	3.81	43	1415081m	9.801	ppbv	
19) Isopropyl Alcohol	3.94	45	119083	1.237	ppbv #	1
26) Hexane	5.67	57	264828	2.519	ppbv #	48
30) Cyclohexane	7.13	84	52582m	0.648	ppbv	
34) 2-Butanone	5.23	43	20556m	0.129	ppbv	
36) Benzene	6.89	78	131062	0.620	ppbv	99
38) Trichloroethene	7.84	130	13871m	0.169	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	210226	0.560	ppbv #	78
52) Tetrachloroethene	11.24	164	55086	0.733	ppbv	92
53) Toluene	9.82	91	2276173	10.163	ppbv	99
58) Ethyl Benzene	12.73	91	213642	0.727	ppbv	97
59) m/p-Xylene	12.99	91	624352	2.415	ppbv #	59
60) o-Xylene	13.72	91	214913	0.842	ppbv	99
61) Styrene	13.55	104	45879m	0.284	ppbv	
72) 4-Ethyltoluene	15.87	105	53577m	0.188	ppbv	
73) 1,3,5-Trimethylbenzene	16.02	105	44168m	0.159	ppbv	
74) 1,2,4-Trimethylbenzene	16.79	105	160626m	0.531	ppbv	

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

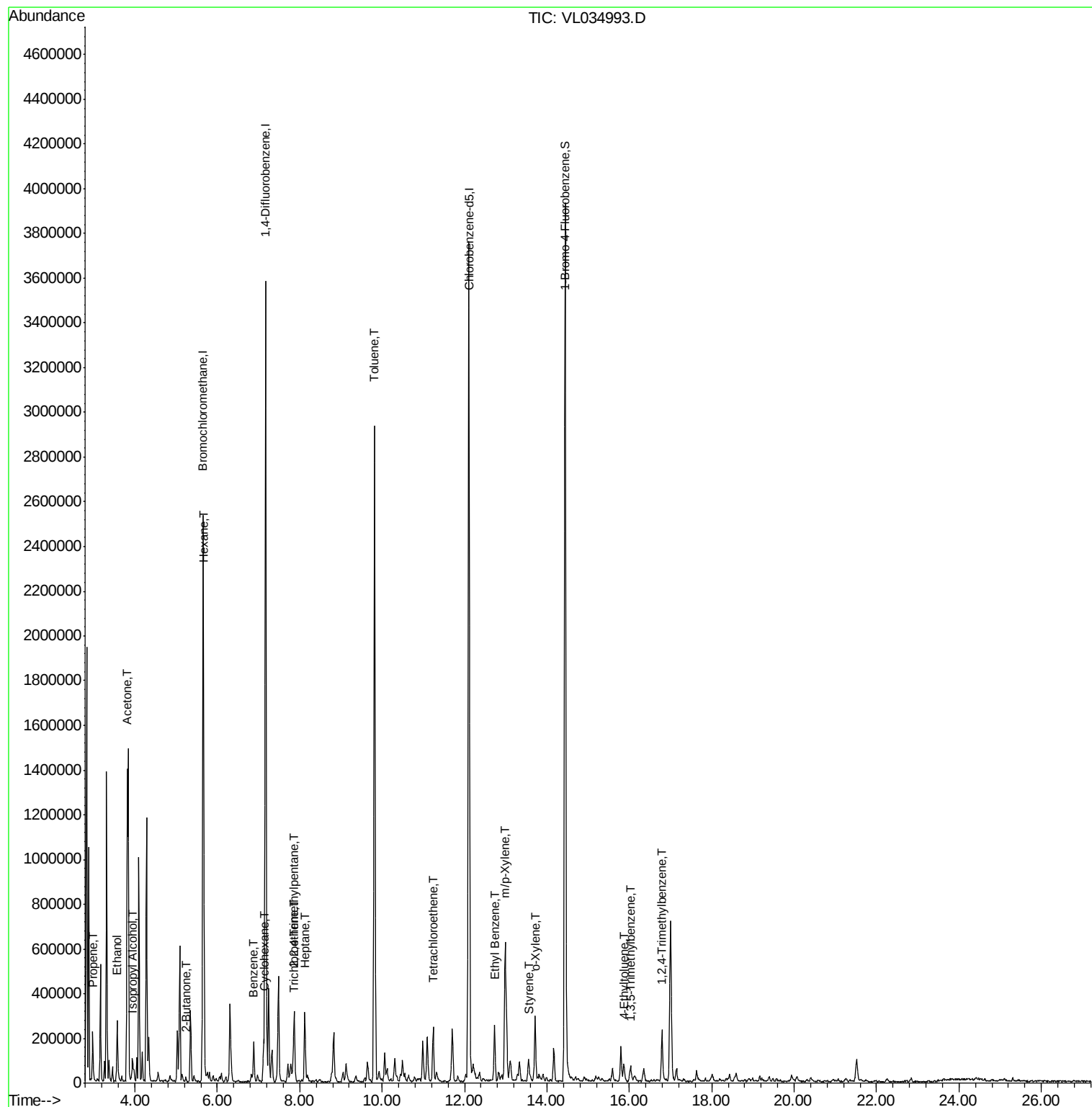
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
Data File : VL034993.D
Acq On : 12 May 2020 19:01
Operator : SY/AP
Sample : L2567-03DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

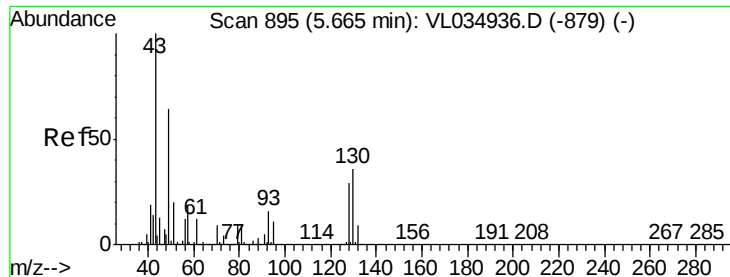
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Manual Integrations
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5/13/2020 5:12:02 PM

Quant Time: May 14 13:43:26 2020
Quant Method : Z:\VOASRV\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

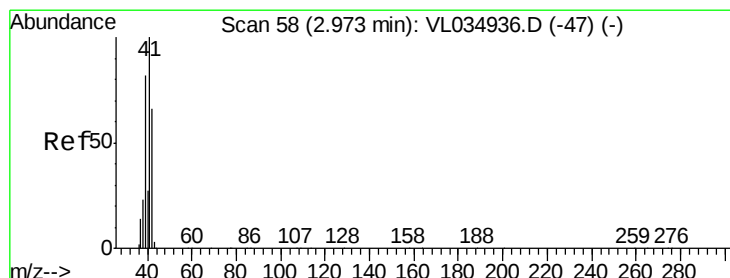
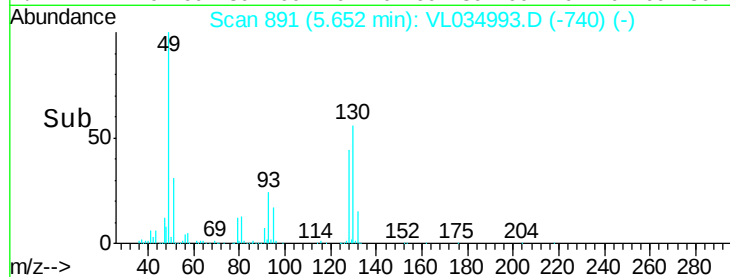
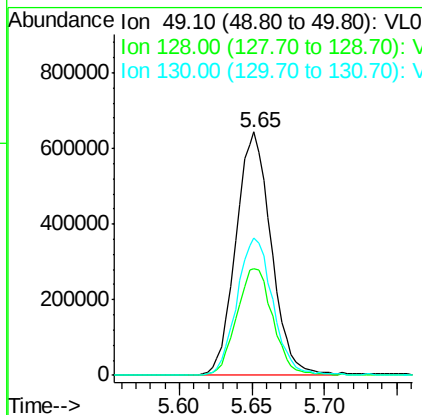
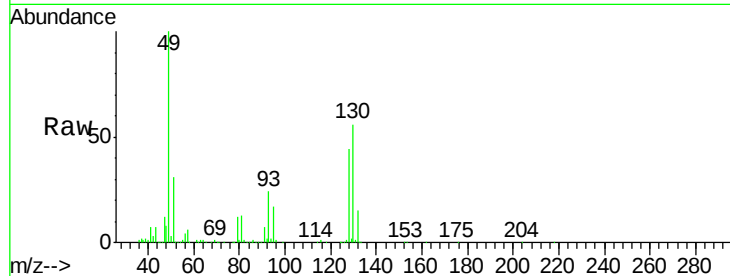
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 891
 Delta R.T. -0.01 min
 Lab File: VL034993.D
 Acq: 12 May 2020 19:01

Instrument :
 MSVOA_L
 ClientSampled :
 IA-2DL

Tot Ion: 49 Resp: 1092143
 Ion Ratio Lower Upper
 49 100
 128 45.6 22.1 66.5
 130 58.2 29.1 87.3

Manual Integrations
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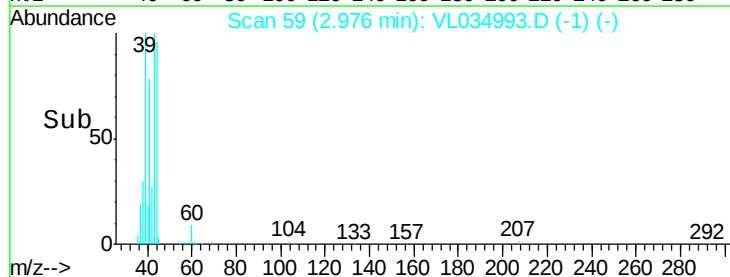
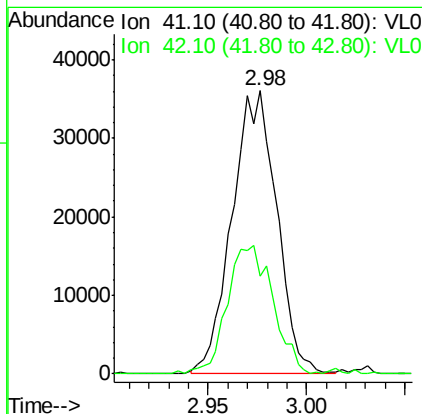
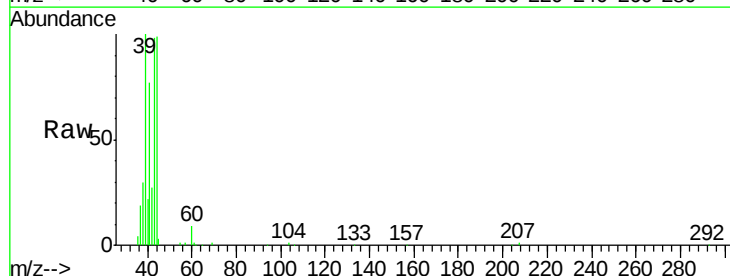
MMDadoda
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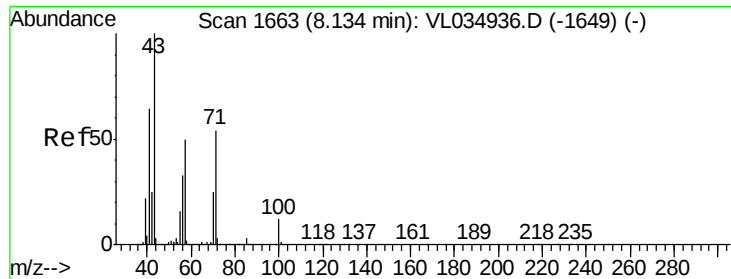


#9

Propene
 Concen: 1.047 ppbv m
 RT: 2.98 min Scan# 59
 Delta R.T. 0.00 min
 Lab File: VL034993.D
 Acq: 12 May 2020 19:01

Tgt Ion: 41 Resp: 56630
 Ion Ratio Lower Upper
 41 100
 42 156.9 54.5 81.7#





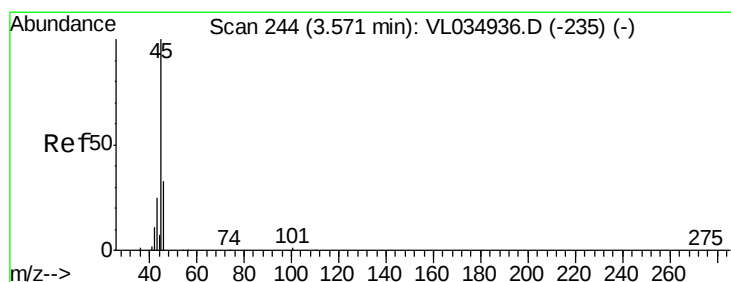
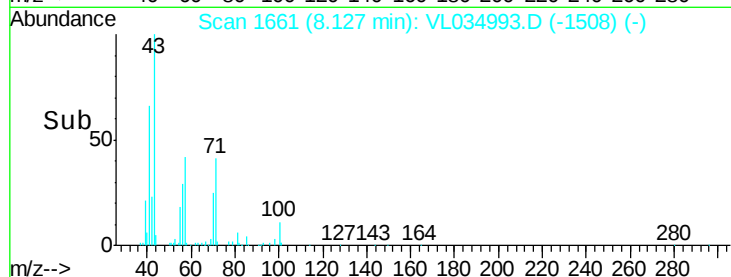
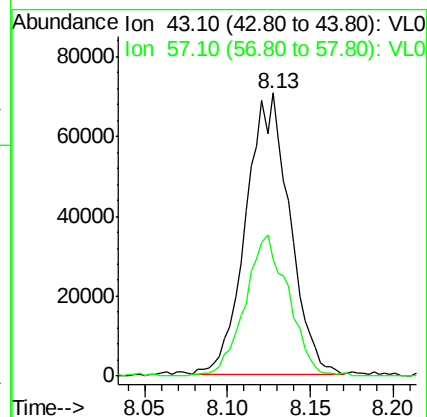
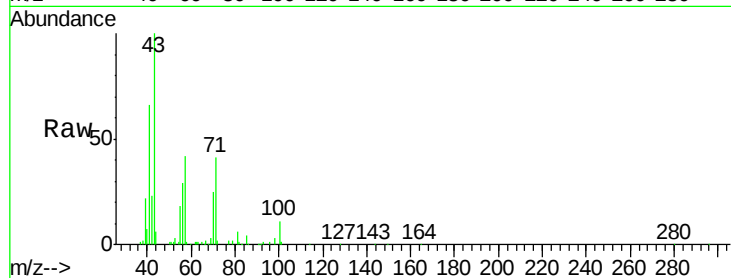
#10
Heptane
Concen: 0.953 ppbv
RT: 8.13 min Scan# 1661
Delta R.T. -0.01 min
Lab File: VL034993.D
Acq: 12 May 2020 19:01

Instrument :
MSVOA_L
ClientSampled :
IA-2DL

Tot Ion	43	Resp	129239
Ion Ratio	Lower	Upper	
43	100		
57	50.1	41.1	61.7

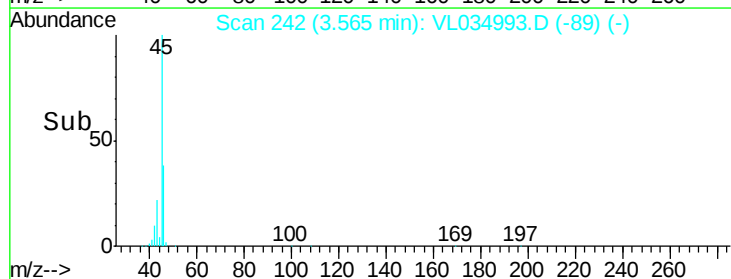
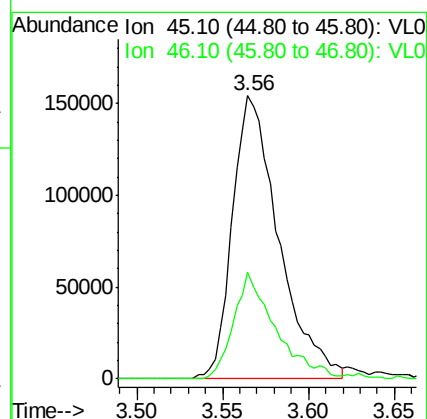
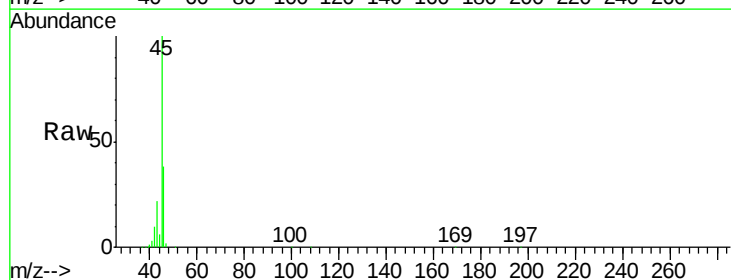
Manual Integrations
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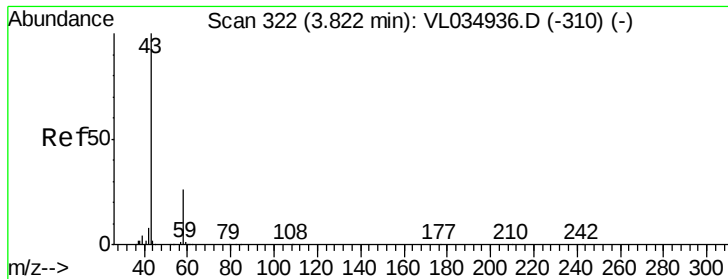
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#13
Ethanol
Concen: 16.139 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.01 min
Lab File: VL034993.D
Acq: 12 May 2020 19:01

Tgt Ion	45	Resp	288151
Ion Ratio	Lower	Upper	
45	100		
46	35.2	14.3	57.3





#15

Acetone

Concen: 9.801 ppbv m

RT: 3.81 min Scan# 319

Delta R.T. -0.01 min

Lab File: VL034993.D

Acq: 12 May 2020 19:01

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tot Ion: 43 Resp: 1415081

Ion Ratio Lower Upper

43 100

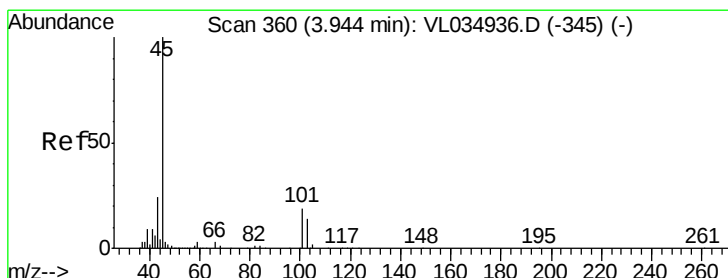
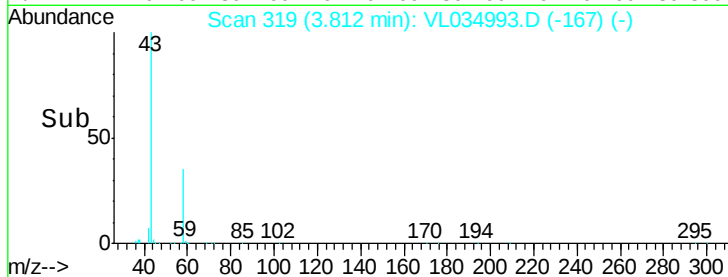
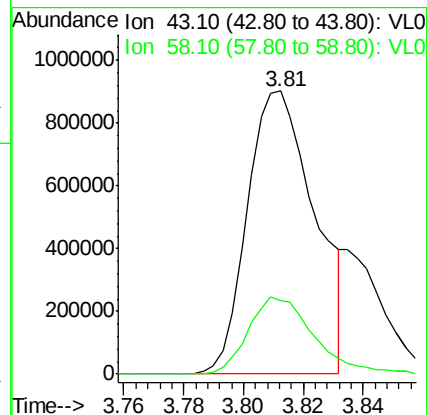
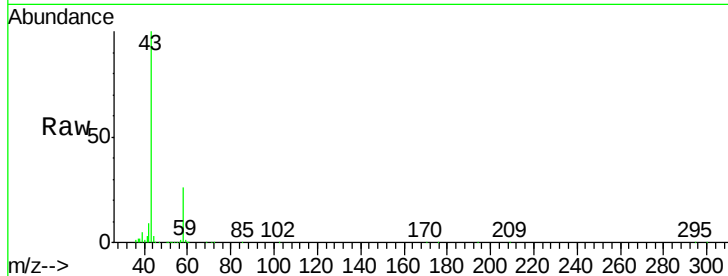
58 27.1 21.7 32.5

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 1.237 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL034993.D

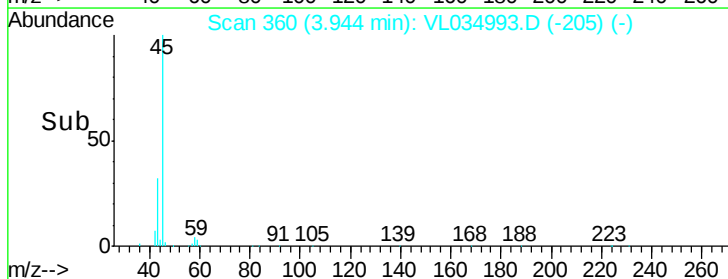
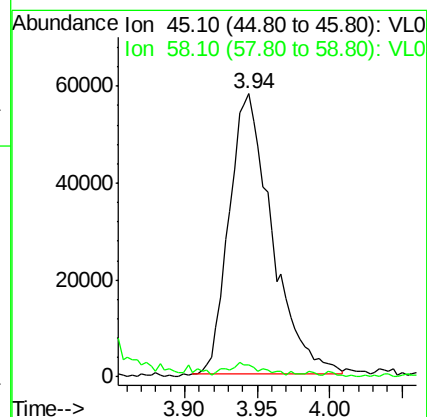
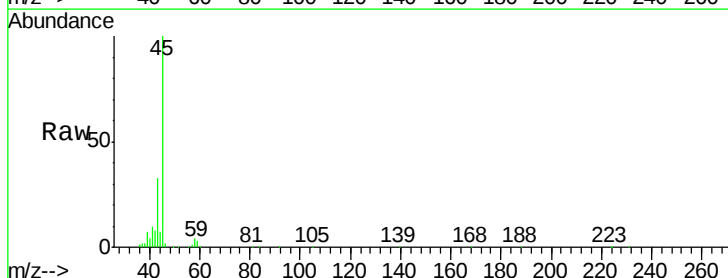
Acq: 12 May 2020 19:01

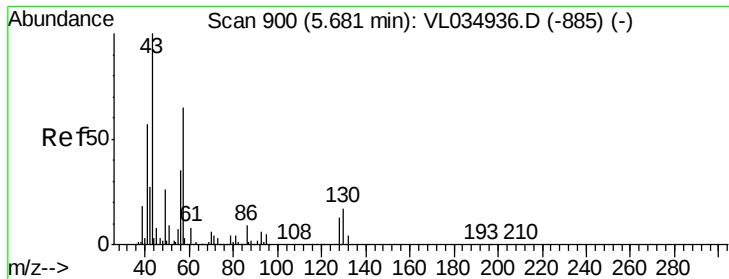
Tgt Ion: 45 Resp: 119083

Ion Ratio Lower Upper

45 100

58 321.9 1.7 2.5#





#26

Hexane

Concen: 2.519 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL034993.D

Acq: 12 May 2020 19:01

Instrument :

MSVOA_L

ClientSampleId :

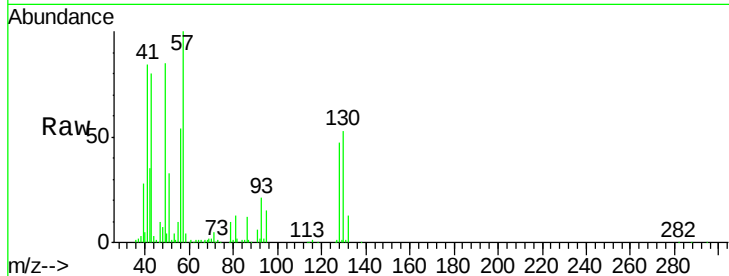
IA-2DL

Tot Ion: 57 Resp: 264828

Ion	Ratio	Lower	Upper
57	100		
41	91.1	72.7	109.1
43	89.4	182.1	273.1#
56	56.2	42.2	63.2

Manual Integrations
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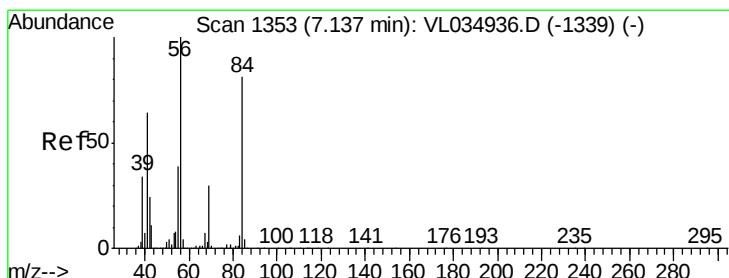
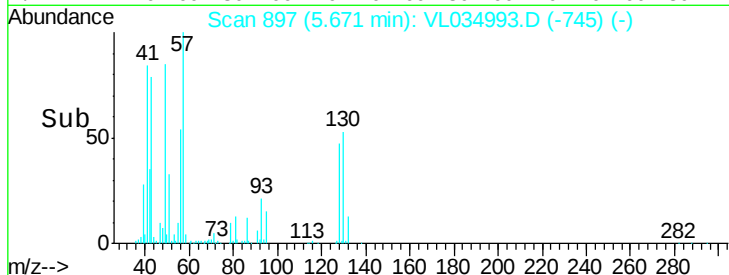
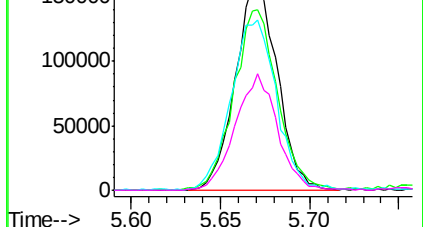


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#30

Cyclohexane

Concen: 0.648 ppbv m

RT: 7.13 min Scan# 1350

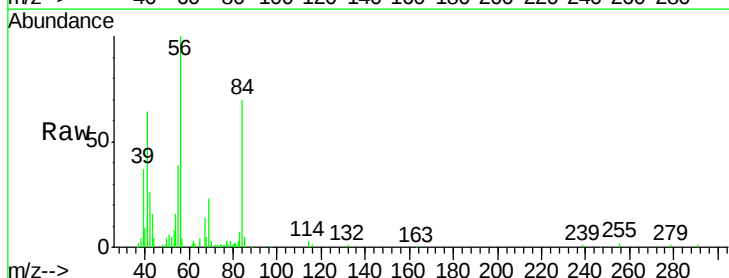
Delta R.T. -0.01 min

Lab File: VL034993.D

Acq: 12 May 2020 19:01

Tgt Ion: 84 Resp: 52582

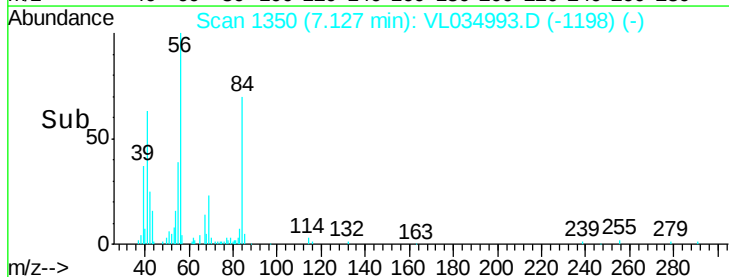
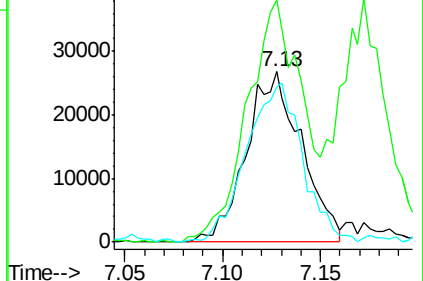
Ion	Ratio	Lower	Upper
84	100		
56	0.0	111.4	167.2#
41	0.0	66.7	100.1#

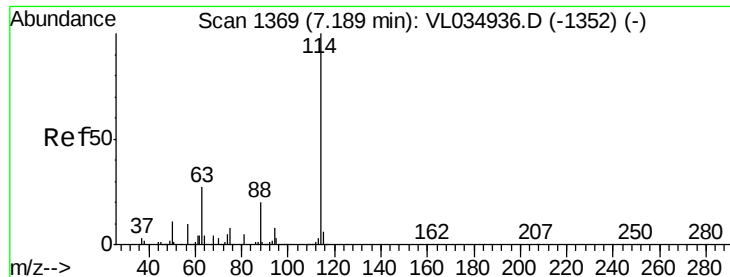


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.02 min

Lab File: VL034993.D

Acq: 12 May 2020 19:01

Instrument :

MSVOA_L

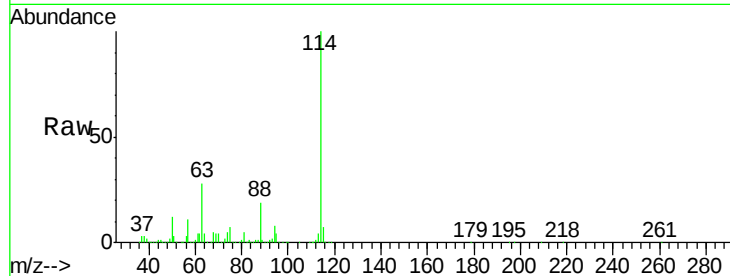
ClientSampleId :

IA-2DL

Tot Ion:	114	Resp:	2562611
Ion	Ratio	Lower	Upper
114	100		
63	26.9	22.2	33.4
88	19.3	15.5	23.3

Manual Integrations
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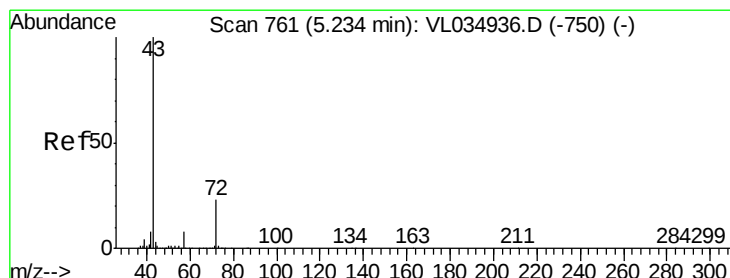
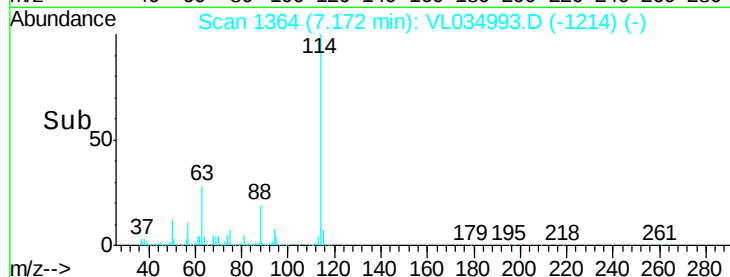
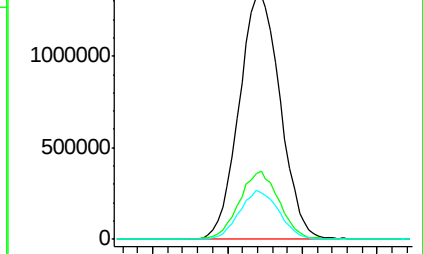
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.129 ppbv m

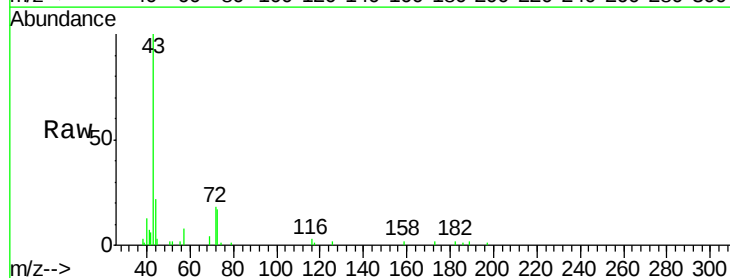
RT: 5.23 min Scan# 761

Delta R.T. -0.00 min

Lab File: VL034993.D

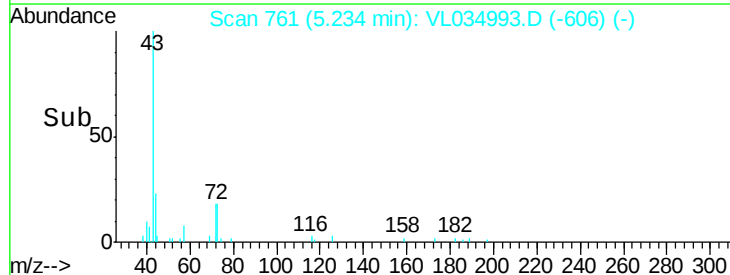
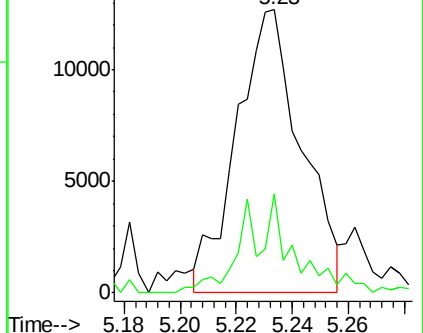
Acq: 12 May 2020 19:01

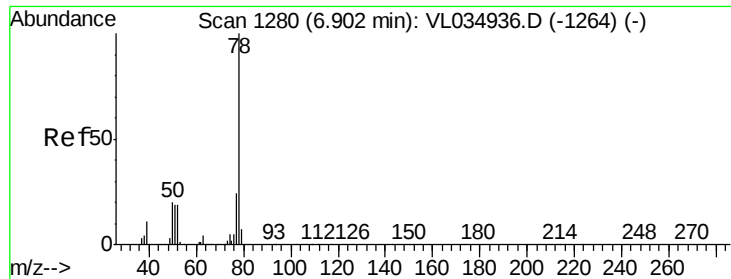
Tgt Ion:	43	Resp:	20556
Ion	Ratio	Lower	Upper
43	100		
72	26.8	18.0	27.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.620 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL034993.D

Acq: 12 May 2020 19:01

Instrument :

MSVOA_L

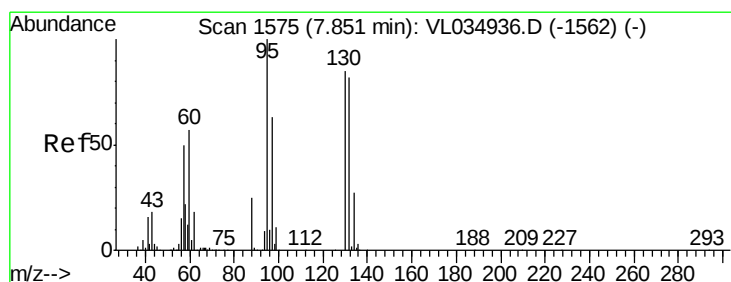
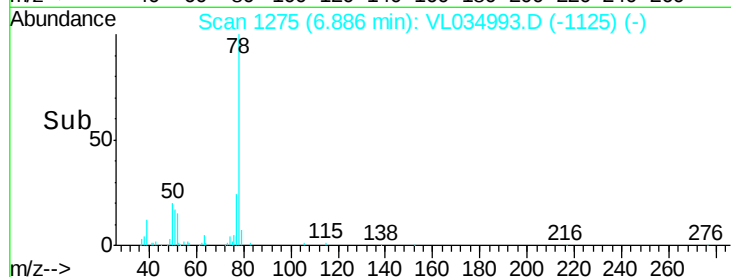
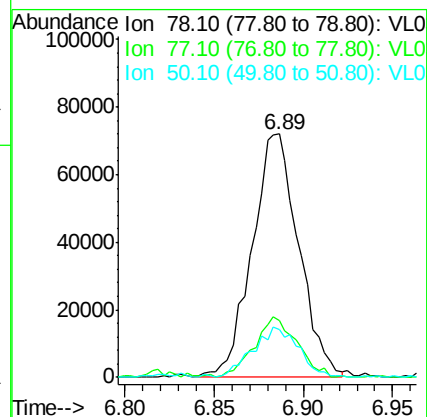
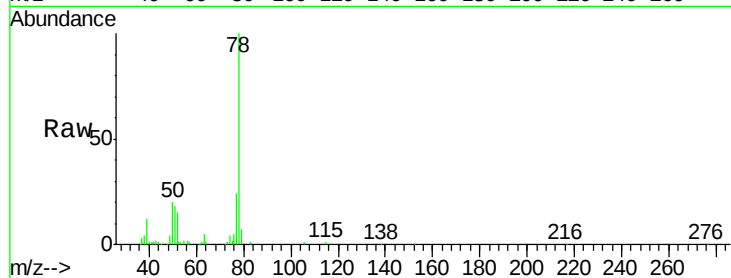
ClientSampleId :

IA-2DL

Tot Ion:	78	Resp:	131062
Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.6
50	19.7	15.8	23.8

Manual Integrations
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#38

Trichloroethene

Concen: 0.169 ppbv m

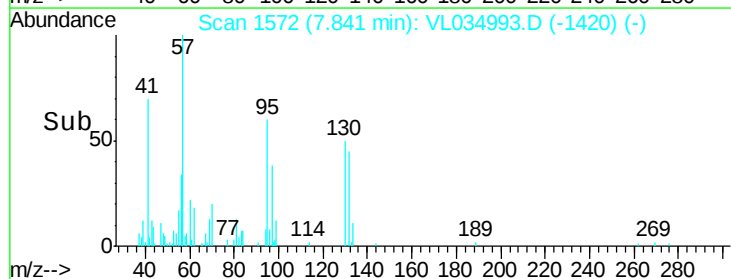
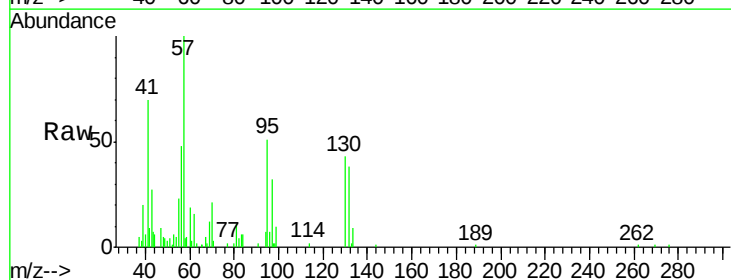
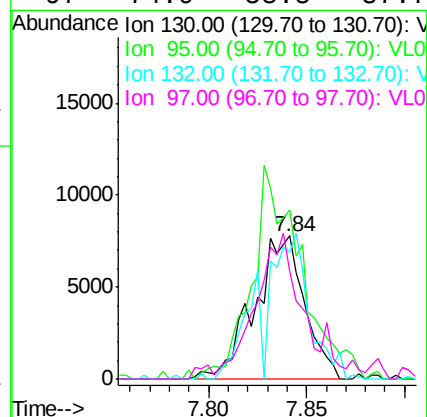
RT: 7.84 min Scan# 1572

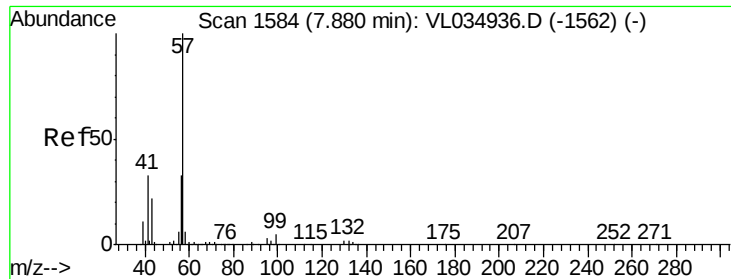
Delta R.T. -0.01 min

Lab File: VL034993.D

Acq: 12 May 2020 19:01

Tgt Ion:	130	Resp:	13871
Ion	Ratio	Lower	Upper
130	100		
95	118.3	93.4	140.0
132	88.4	76.4	114.6
97	74.9	58.5	87.7





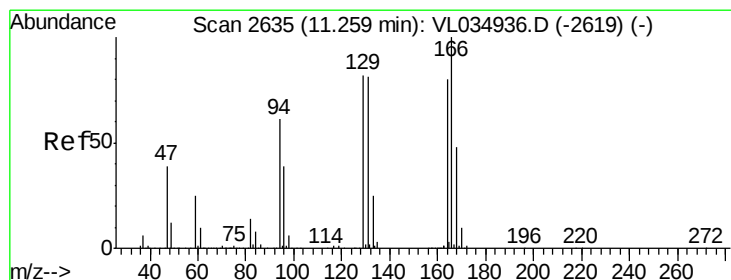
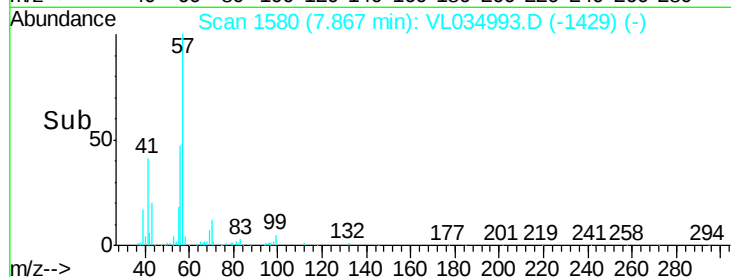
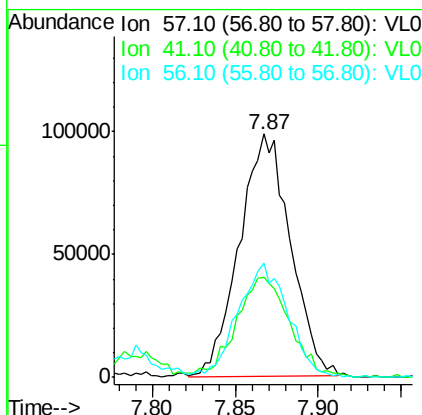
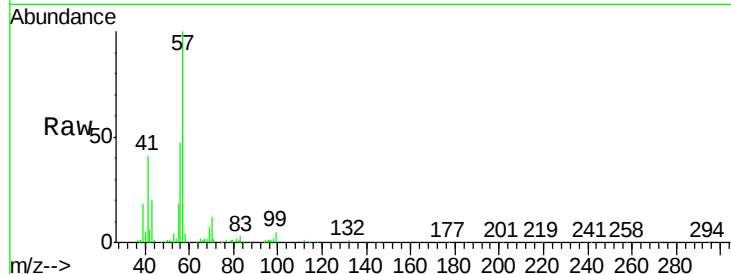
#44
 2,2,4-Trimethylpentane
 Concen: 0.560 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: VL034993.D
 Acq: 12 May 2020 19:01

Instrument :
 MSVOA_L
 ClientSampled :
 IA-2DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	43.7	26.4	39.6#
56	46.3	25.5	38.3#

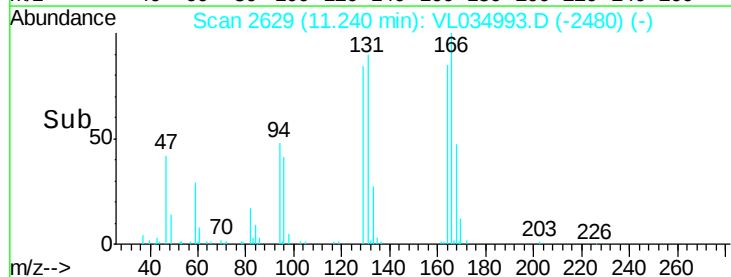
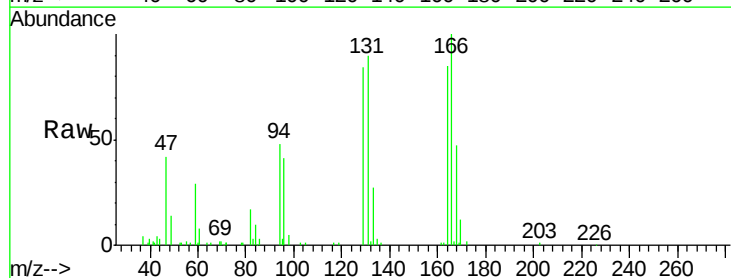
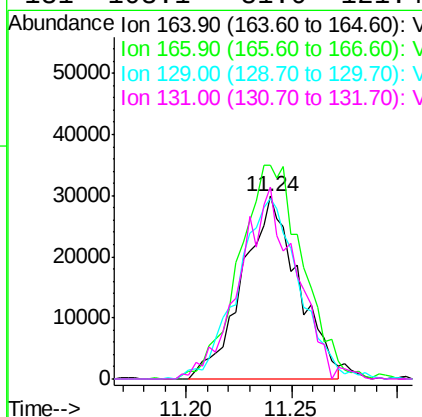
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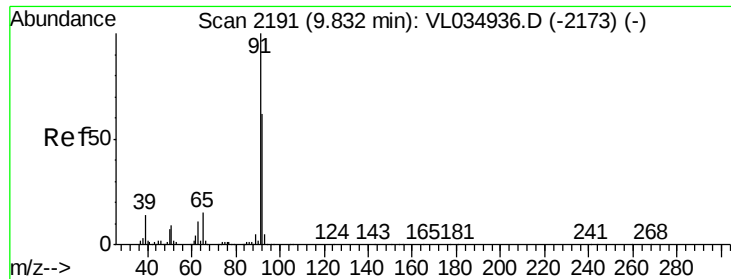
MMDadoda
 5/13/2020 5:12:02 PM



#52
 Tetrachloroethene
 Concen: 0.733 ppbv
 RT: 11.24 min Scan# 2629
 Delta R.T. -0.02 min
 Lab File: VL034993.D
 Acq: 12 May 2020 19:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	112.8	100.7	151.1
129	94.1	83.0	124.4
131	103.1	81.0	121.4





#53

Toluene

Concen: 10.163 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.02 min

Lab File: VL034993.D

Acq: 12 May 2020 19:01

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tot Ion: 91 Resp: 2276173

Ion Ratio Lower Upper

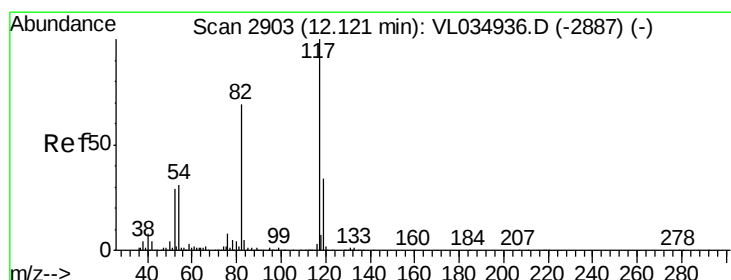
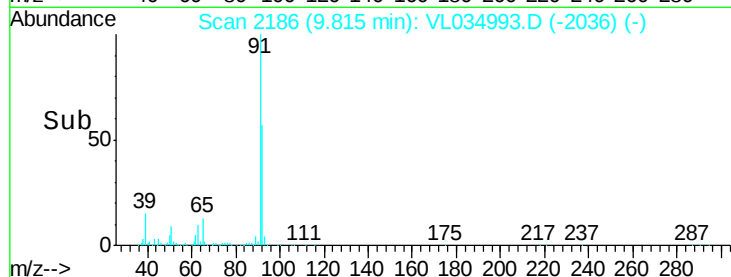
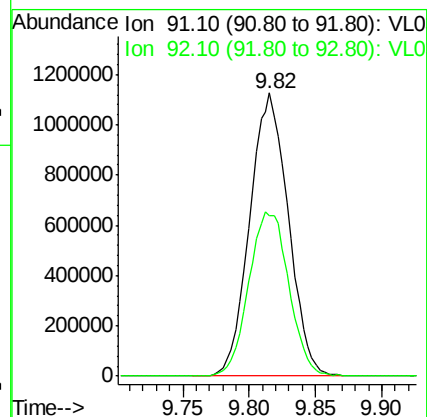
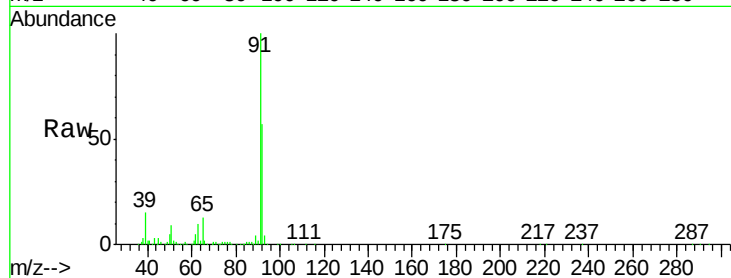
91 100

92 60.4 48.6 73.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.02 min

Lab File: VL034993.D

Acq: 12 May 2020 19:01

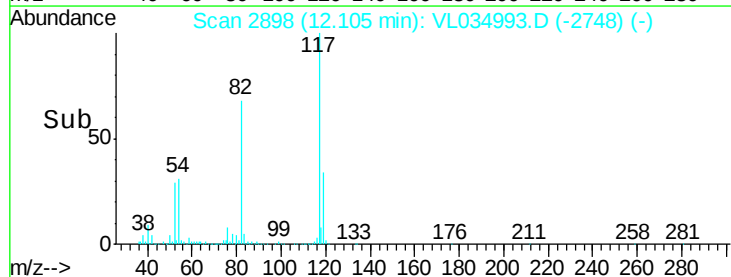
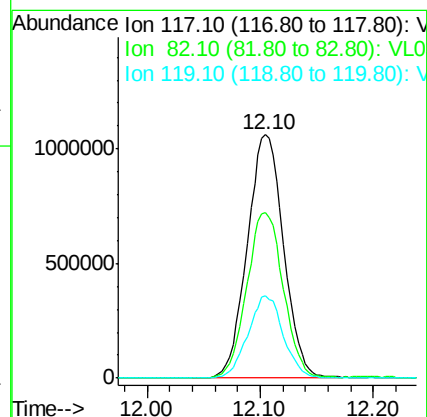
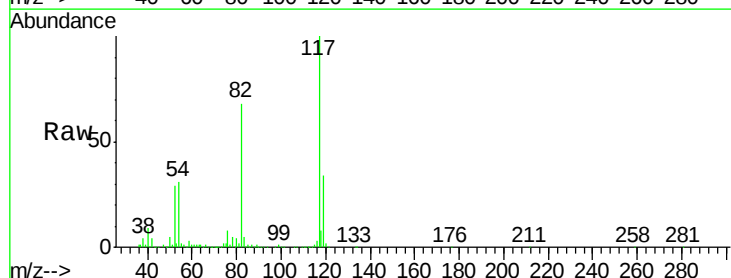
Tgt Ion: 117 Resp: 2376428

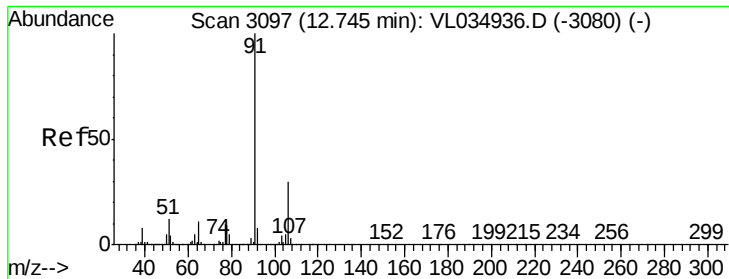
Ion Ratio Lower Upper

117 100

82 68.5 53.1 79.7

119 32.9 26.7 40.1





#58

Ethyl Benzene

Concen: 0.727 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. -0.02 min

Lab File: VL034993.D

Acq: 12 May 2020 19:01

Instrument :

MSVOA_L

ClientSampled :

IA-2DL

Tot Ion: 91 Resp: 213642

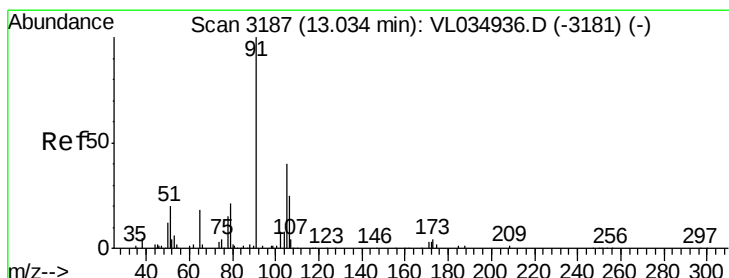
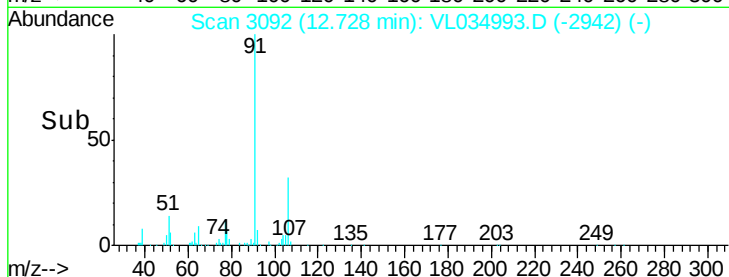
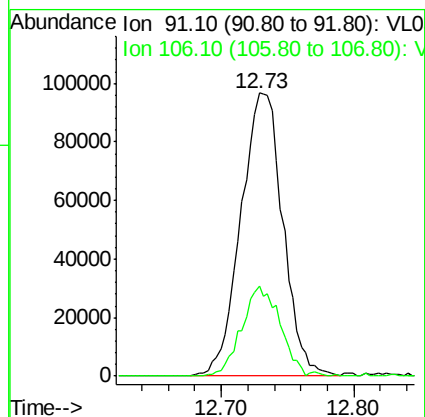
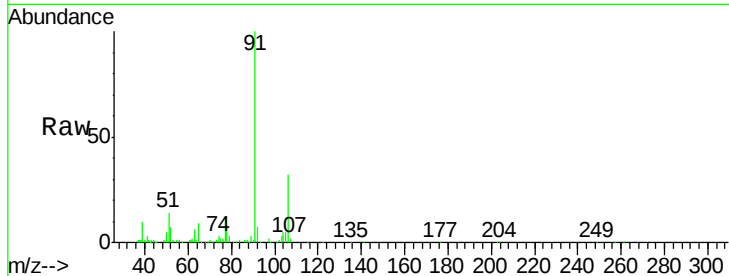
Ion Ratio Lower Upper

91 100

106 31.8 24.2 36.4

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#59

m/p-Xylene

Concen: 2.415 ppbv

RT: 12.99 min Scan# 3172

Delta R.T. -0.05 min

Lab File: VL034993.D

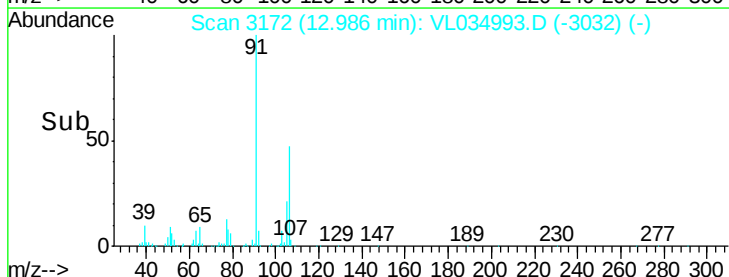
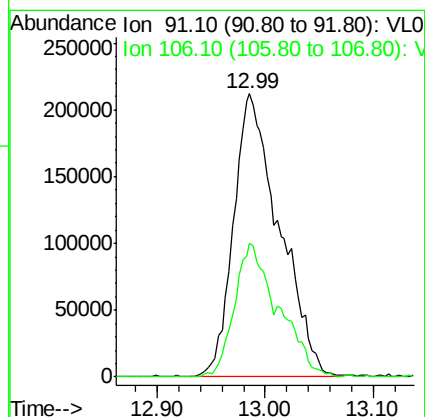
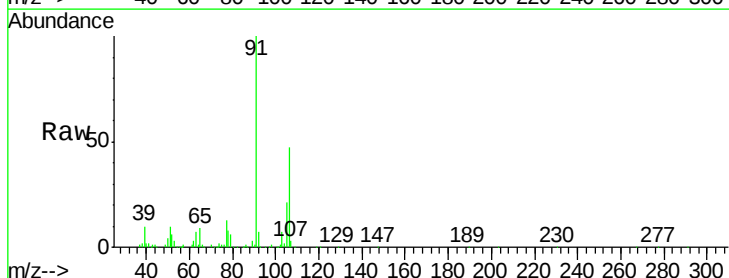
Acq: 12 May 2020 19:01

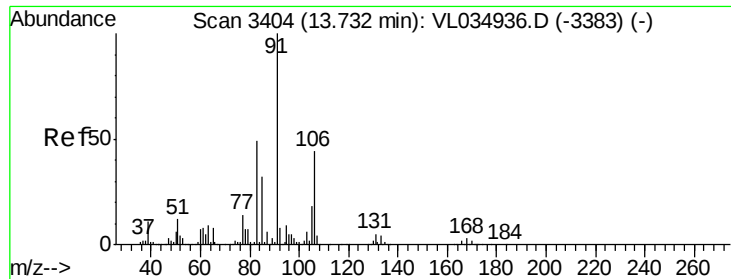
Tgt Ion: 91 Resp: 624352

Ion Ratio Lower Upper

91 100

106 45.4 66.0 99.0#





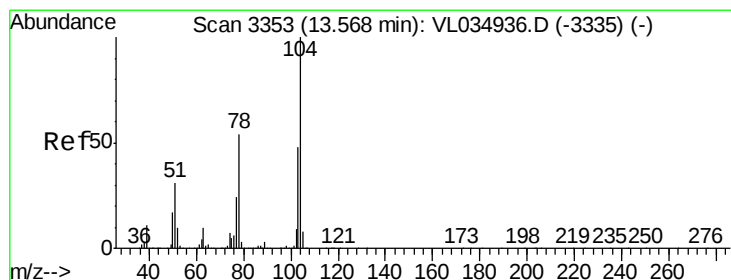
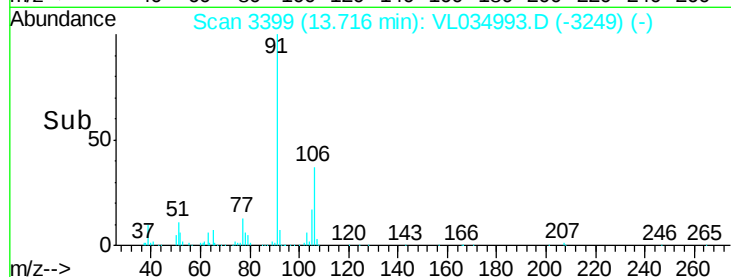
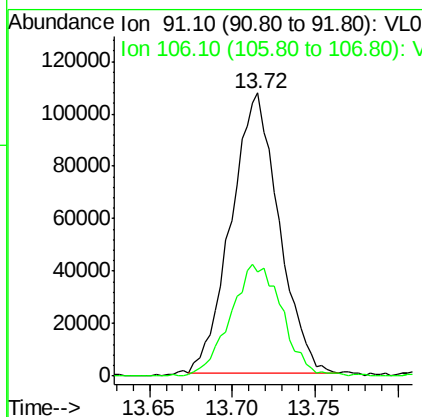
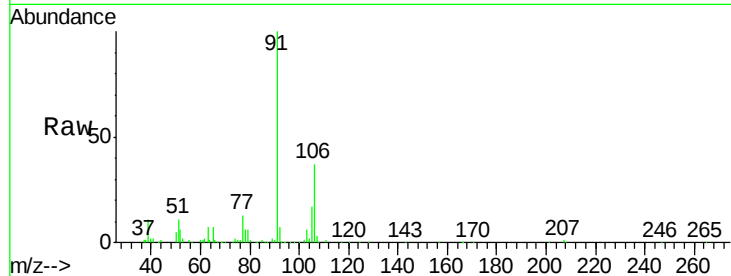
#60
o-Xylene
Concen: 0.842 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.02 min
Lab File: VL034993.D
Acq: 12 May 2020 19:01

Instrument :
MSVOA_L
ClientSampled :
IA-2DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	43.4	21.9	65.5

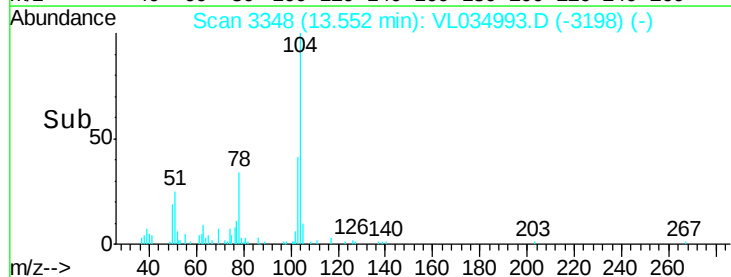
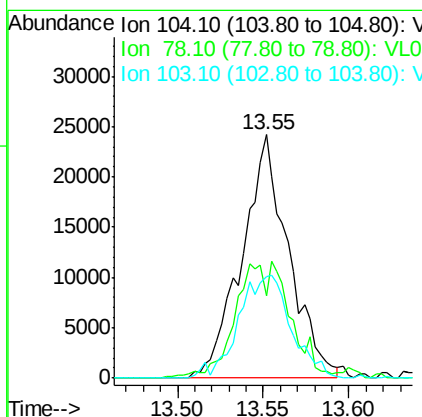
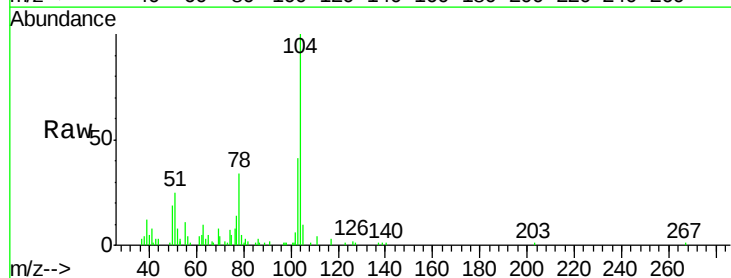
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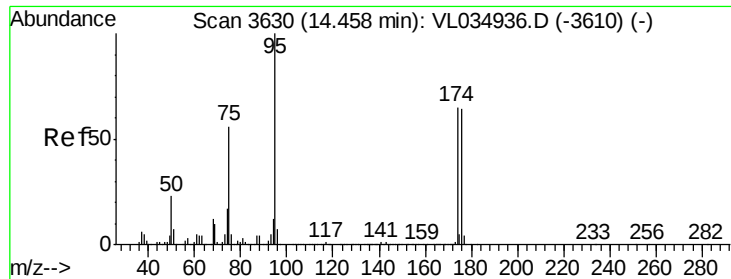
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#61
Styrene
Concen: 0.284 ppbv m
RT: 13.55 min Scan# 3348
Delta R.T. -0.02 min
Lab File: VL034993.D
Acq: 12 May 2020 19:01

Tgt Ion	Ratio	Lower	Upper
104	100		
78	57.4	43.7	65.5
103	47.7	38.8	58.2





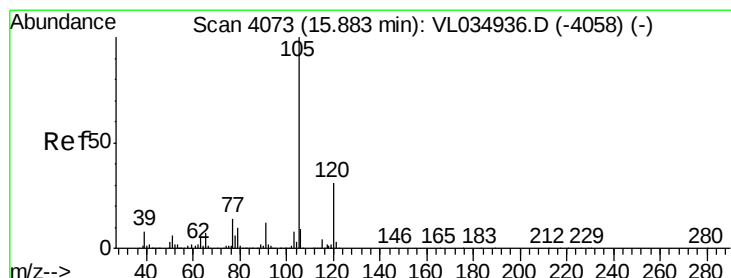
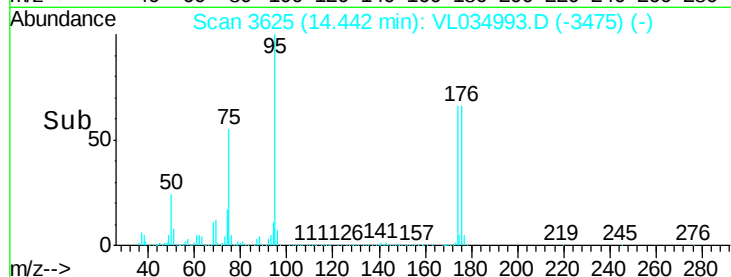
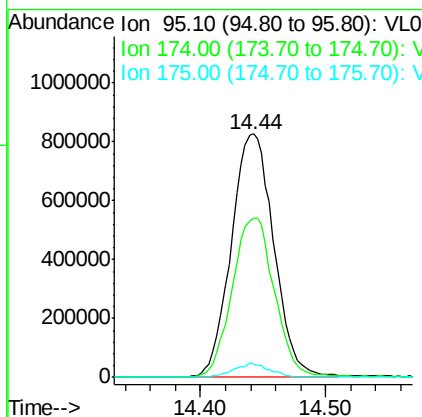
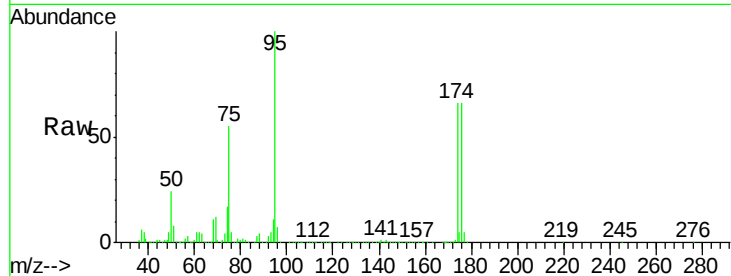
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.127 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.02 min
 Lab File: VL034993.D
 Acq: 12 May 2020 19:01

Instrument :
 MSVOA_L
 ClientSampled :
 IA-2DL

Tot Ion: 95 Resp: 1948099
 Ion Ratio Lower Upper
 95 100
 174 65.4 51.5 77.3
 175 4.9 3.8 5.8

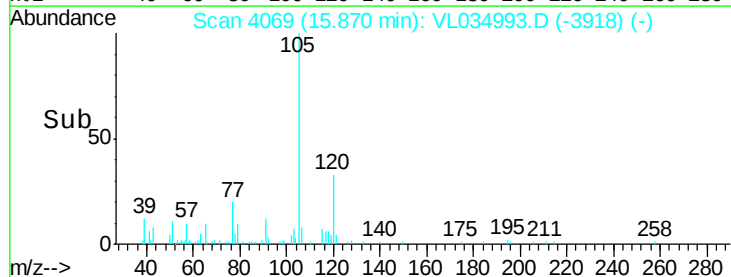
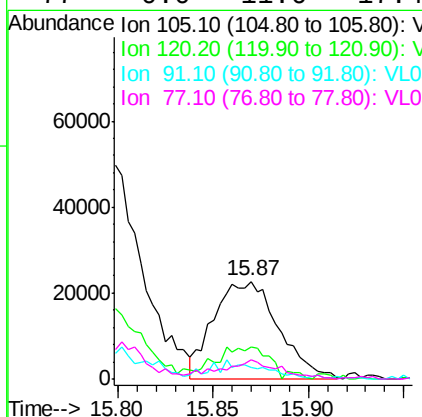
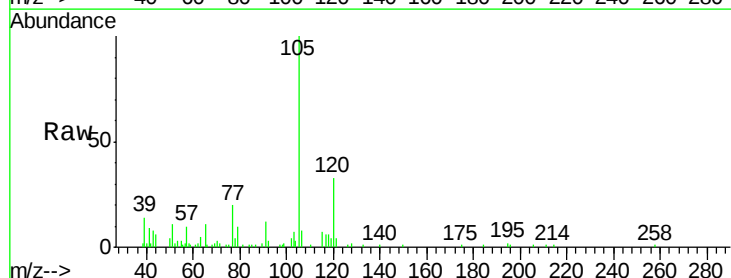
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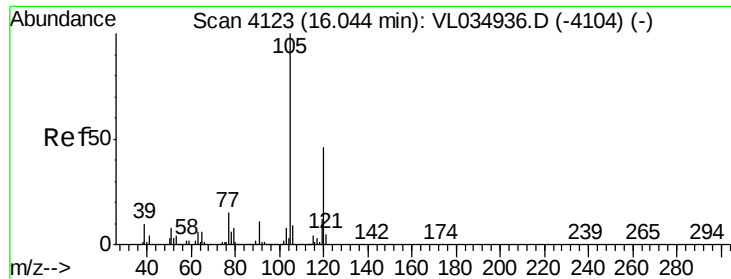
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#72
 4-Ethyltoluene
 Concen: 0.188 ppbv m
 RT: 15.87 min Scan# 4069
 Delta R.T. -0.01 min
 Lab File: VL034993.D
 Acq: 12 May 2020 19:01

Tgt Ion: 105 Resp: 53577
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.8 35.8#
 91 16.4 10.6 15.8#
 77 0.0 11.6 17.4#





#73

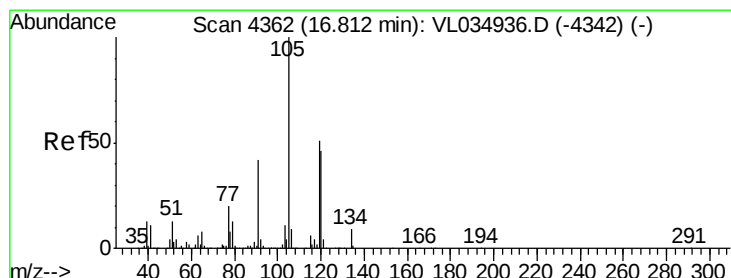
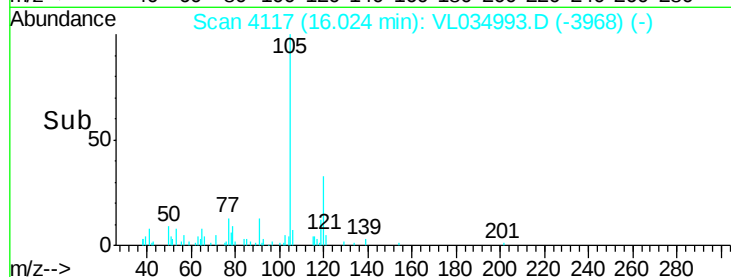
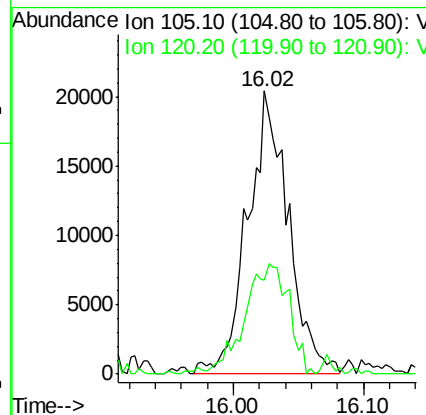
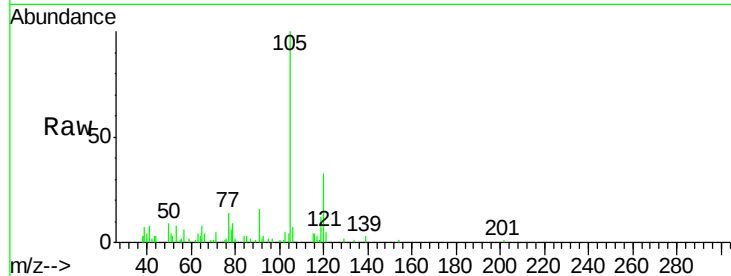
1,3,5-Trimethylbenzene
Concen: 0.159 ppbv m
RT: 16.02 min Scan# 4117
Delta R.T. -0.02 min
Lab File: VL034993.D
Acq: 12 May 2020 19:01

Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	33.2	36.4	54.6#

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#74

1,2,4-Trimethylbenzene
Concen: 0.531 ppbv m
RT: 16.79 min Scan# 4356
Delta R.T. -0.02 min
Lab File: VL034993.D
Acq: 12 May 2020 19:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	39.9	36.8	55.2
91	16.2	35.4	53.0#
77	23.3	16.2	24.2

