

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112420\
 Data File : VL036017.D
 Acq On : 25 Nov 2020 6:09
 Operator : SY/AP
 Sample : L4843-01 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-01

Manual Integrations
 APPROVED

MMDadoda
 11/27/2020 1:17:41 PM

Quant Time: Nov 26 14:24:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1230223	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	5107957	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	4991211	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3917782	11.05	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	5247567m	97.318	ppbv	
10) Heptane	8.11	43	4293204	28.826	ppbv	97
13) Ethanol	3.60	45	26024m	2.225	ppbv	
20) Methylene Chloride	4.32	84	449587	4.856	ppbv	98
26) Hexane	5.67	57	10884284	76.172	ppbv #	46
27) Carbon Disulfide	4.53	76	1995858	9.322	ppbv	98
30) Cyclohexane	7.12	84	155584	1.000	ppbv #	65
32) 1,1,1-Trichloroethane	6.49	97	53412m	0.182	ppbv	
34) 2-Butanone	5.23	43	230402	1.390	ppbv	89
36) Benzene	6.87	78	170256	0.448	ppbv	94
38) Trichloroethene	7.82	130	33601	0.181	ppbv	97
52) Tetrachloroethene	11.20	164	1225111	6.810	ppbv	96
53) Toluene	9.79	91	18615044	40.626	ppbv #	77
57) Chlorobenzene	12.17	112	268916m	0.678	ppbv	
58) Ethyl Benzene	12.69	91	4424167	7.278	ppbv	98
59) m/p-Xylene	12.95	91	10864607	21.124	ppbv	92
60) o-Xylene	13.67	91	3940319	7.876	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	83955m	0.141	ppbv	

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

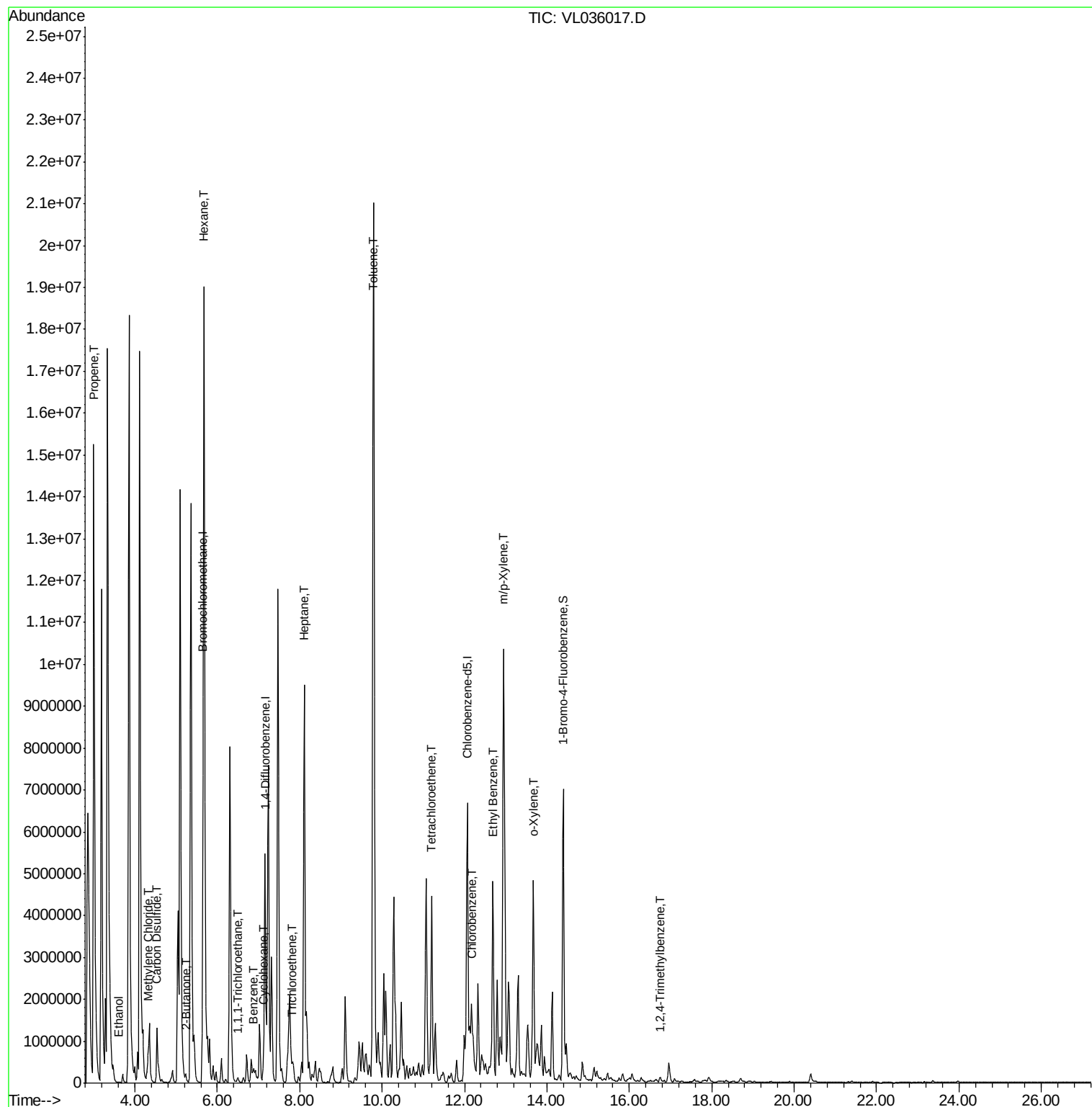
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112420\
Data File : VL036017.D
Acq On : 25 Nov 2020 6:09
Operator : SY/AP
Sample : L4843-01 4X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

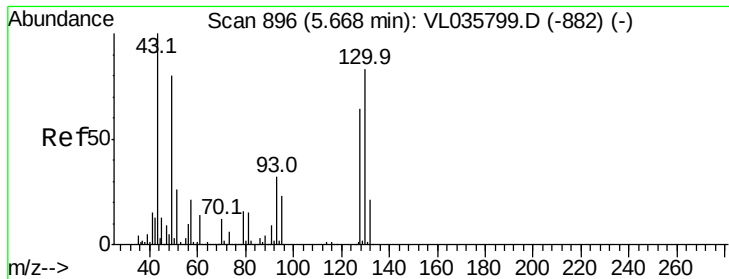
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

Manual Integrations
APPROVED

MMDadoda
11/27/2020 1:17:41 PM

Quant Time: Nov 26 14:24:24 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL036017.D

Acq: 25 Nov 2020 6:09

Instrument :

MSVOA_L

ClientSampleId :

SVP-01

Tot Ion: 49 Resp: 1230223

Ion Ratio Lower Upper

49 100

128 80.7 41.5 124.6

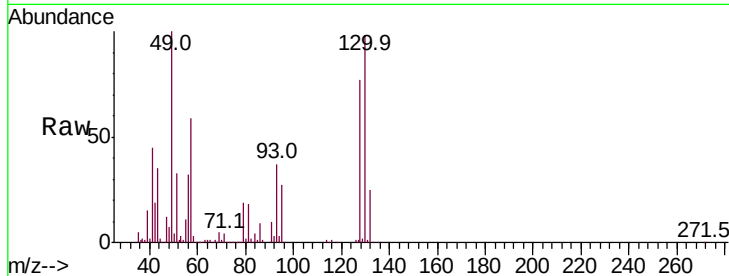
130 102.7 53.7 161.1

Manual Integrations

APPROVED

MMDadoda

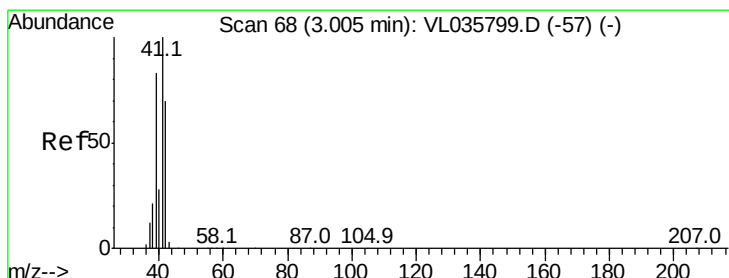
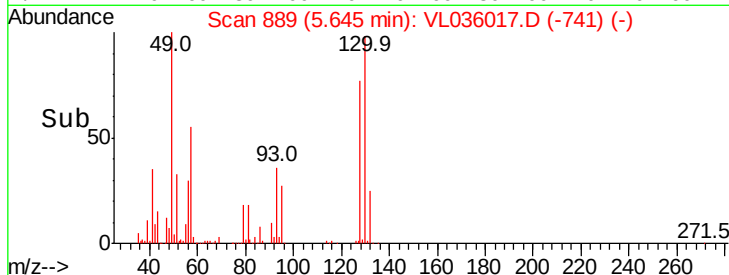
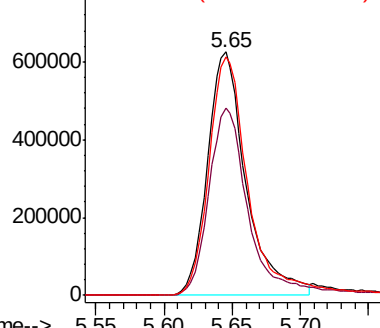
11/27/2020 1:17:41 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 97.318 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL036017.D

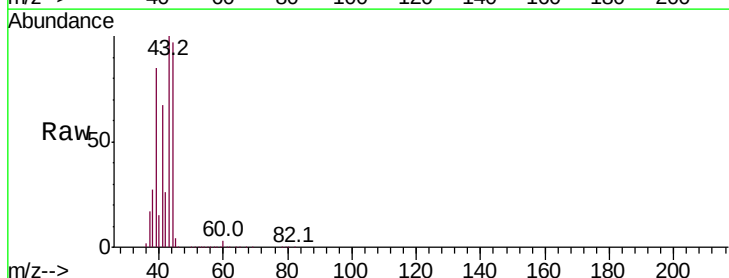
Acq: 25 Nov 2020 6:09

Tgt Ion: 41 Resp: 5247567

Ion Ratio Lower Upper

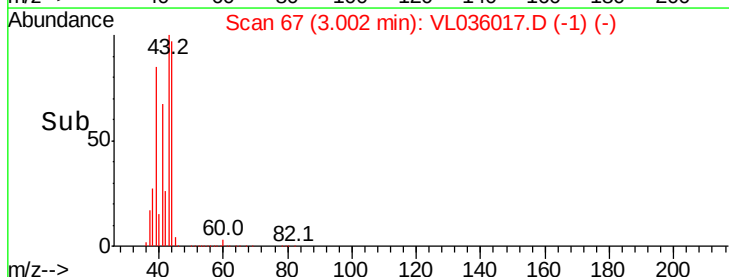
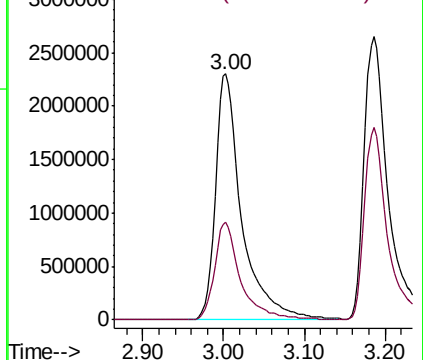
41 100

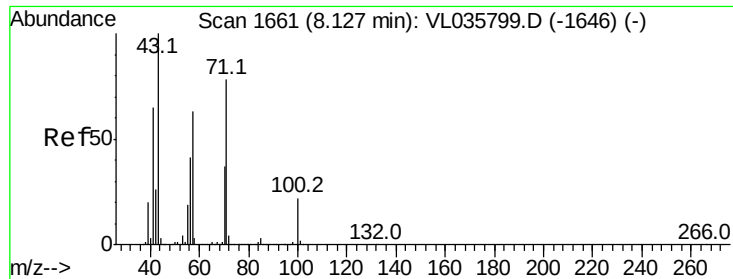
42 68.3 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 28.826 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.02 min

Lab File: VL036017.D

Acq: 25 Nov 2020 6:09

Instrument :

MSVOA_L

ClientSampled :

SVP-01

Tot Ion: 43 Resp: 4293204

Ion Ratio Lower Upper

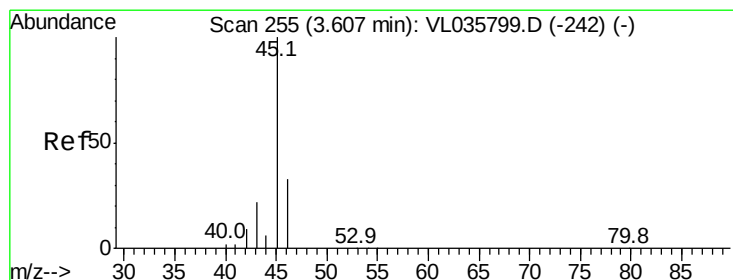
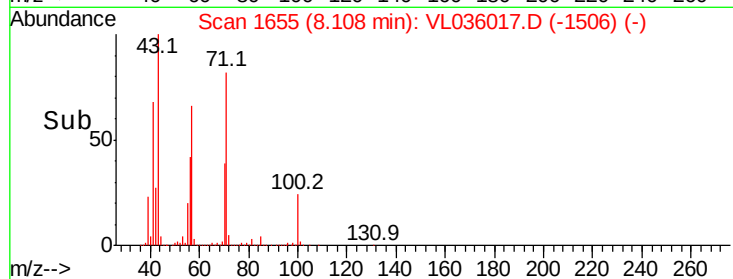
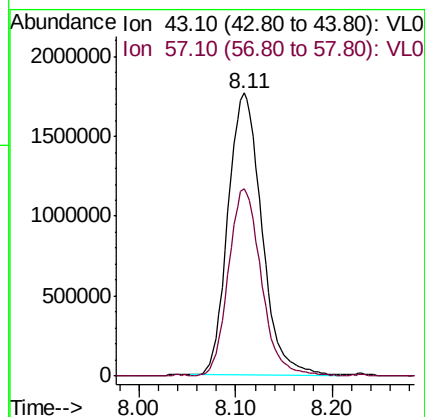
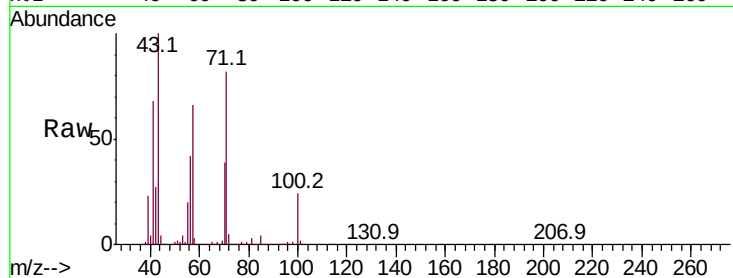
43 100

57 65.0 50.0 75.0

Manual Integrations
APPROVED

MMDadoda

11/27/2020 1:17:41 PM



#13

Ethanol

Concen: 2.225 ppbv m

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL036017.D

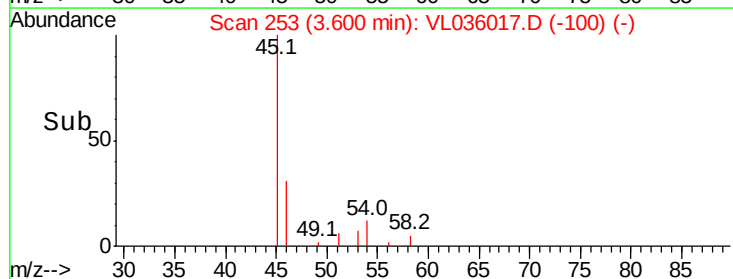
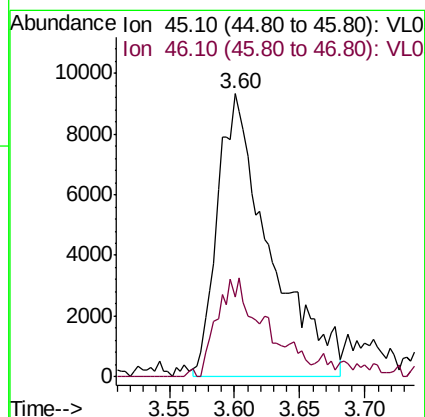
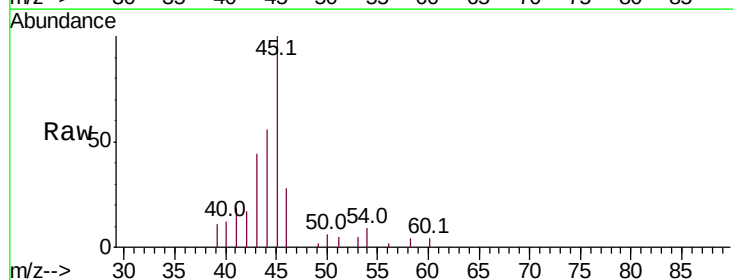
Acq: 25 Nov 2020 6:09

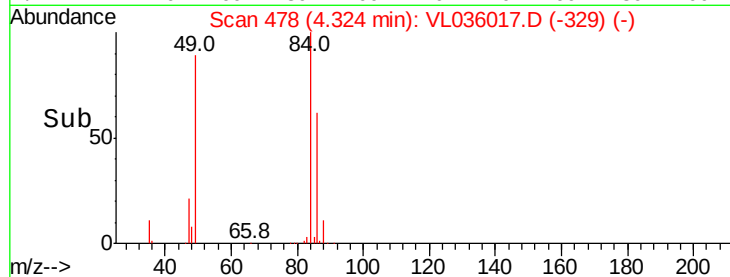
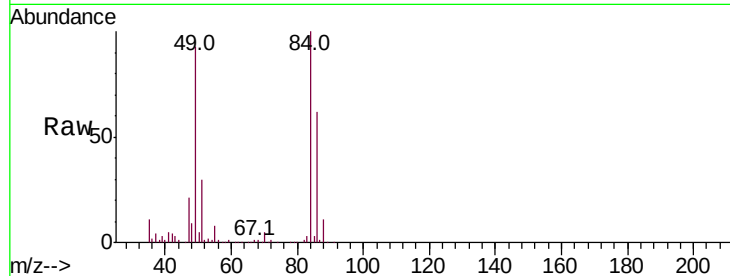
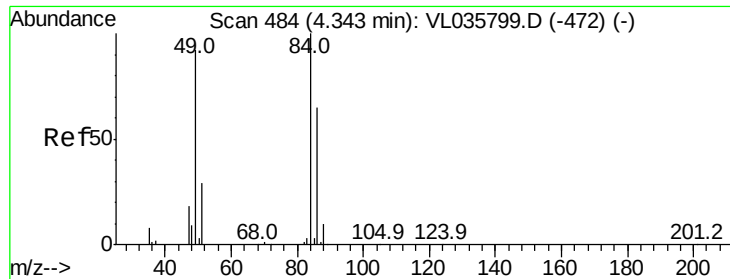
Tgt Ion: 45 Resp: 26024

Ion Ratio Lower Upper

45 100

46 0.0 16.1 64.5#





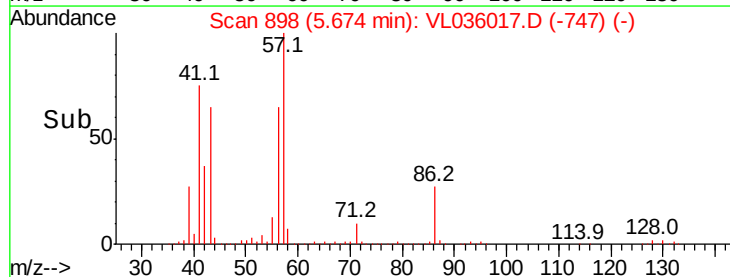
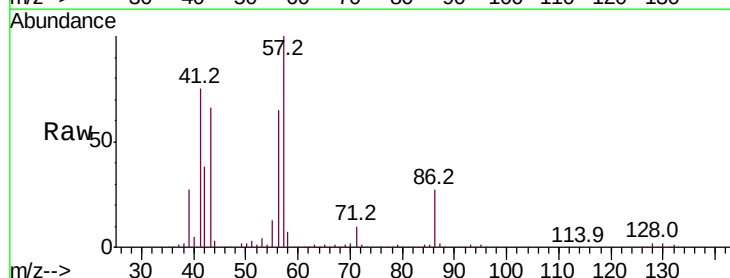
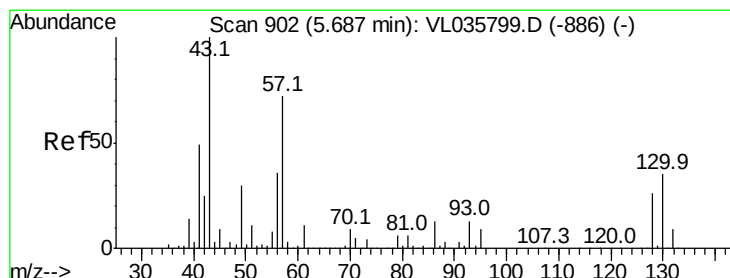
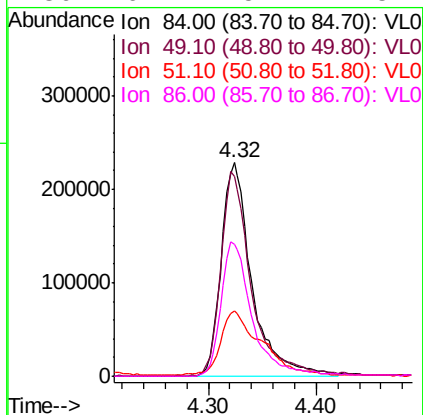
#20
Methylene Chloride
Concen: 4.856 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL036017.D
Acq: 25 Nov 2020 6:09

Tot Ion	84	Resp	449587
Ion Ratio	100	Lower	Upper
84	100		
49	93.3	73.8	110.8
51	29.6	23.0	34.4
86	62.1	52.1	78.1

Instrument :
MSVOA_L
ClientSampleId :
SVP-01

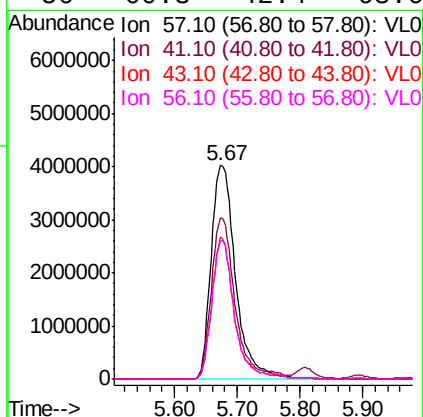
Manual Integrations
APPROVED

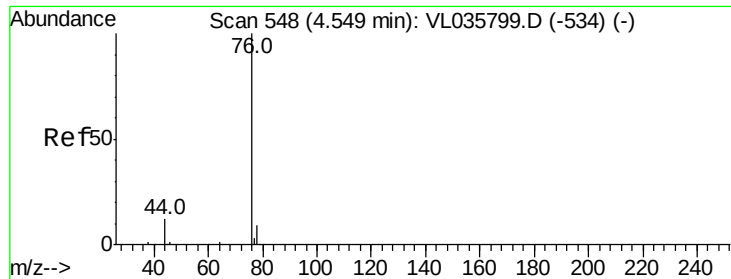
MMDadoda
11/27/2020 1:17:41 PM



#26
Hexane
Concen: 76.172 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036017.D
Acq: 25 Nov 2020 6:09

Tgt Ion	57	Resp	10884284
Ion Ratio	100	Lower	Upper
57	100		
41	74.3	58.9	88.3
43	61.5	150.2	225.2#
56	60.3	42.4	63.6





#27

Carbon Disulfide

Concen: 9.322 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.02 min

Lab File: VL036017.D

Acq: 25 Nov 2020 6:09

Instrument :

MSVOA_L

ClientSampled :

SVP-01

Tot Ion: 76 Resp: 1995858

Ion Ratio Lower Upper

76 100

44 11.8 9.9 14.9

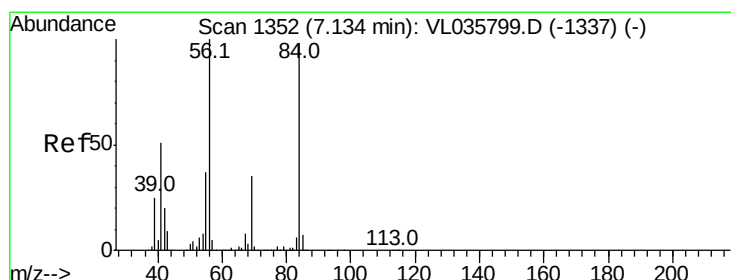
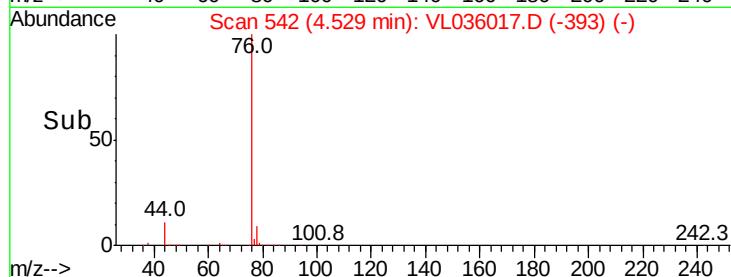
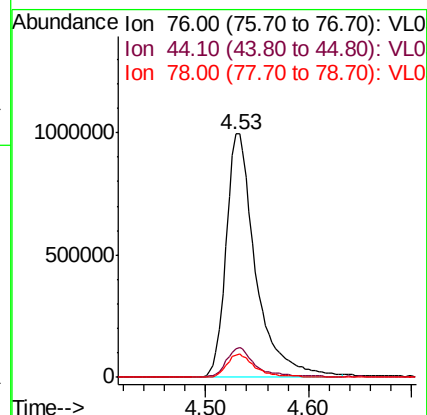
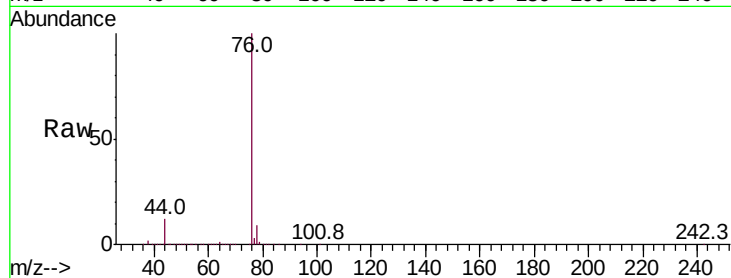
78 9.5 8.1 12.1

Manual Integrations

APPROVED

MMDadoda

11/27/2020 1:17:41 PM



#30

Cyclohexane

Concen: 1.000 ppbv

RT: 7.12 min Scan# 1347

Delta R.T. -0.02 min

Lab File: VL036017.D

Acq: 25 Nov 2020 6:09

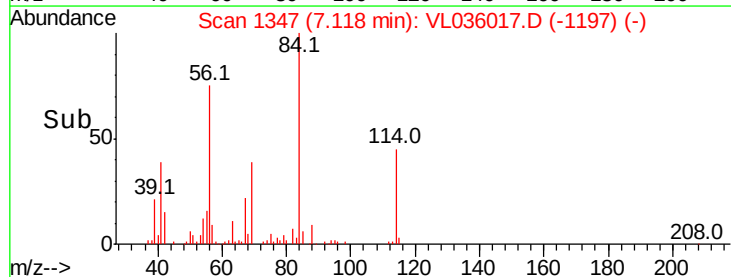
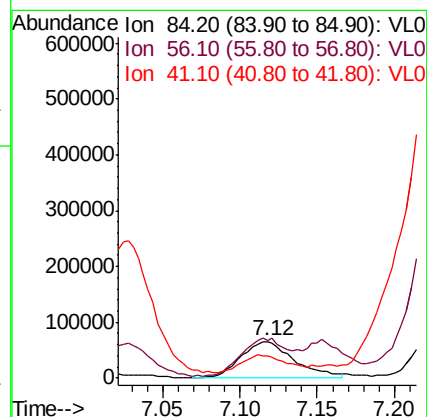
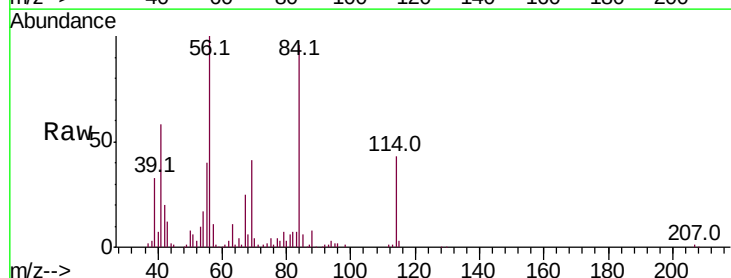
Tgt Ion: 84 Resp: 155584

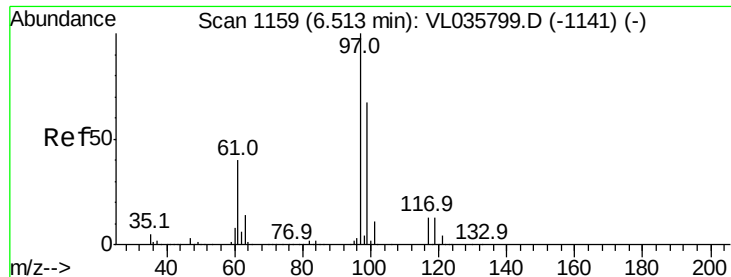
Ion Ratio Lower Upper

84 100

56 91.1 86.4 129.6

41 0.0 42.1 63.1#





#32

1,1,1-Trichloroethane

Concen: 0.182 ppbv m

RT: 6.49 min Scan# 1152

Delta R.T. -0.02 min

Lab File: VL036017.D

Acq: 25 Nov 2020 6:09

Instrument :

MSVOA_L

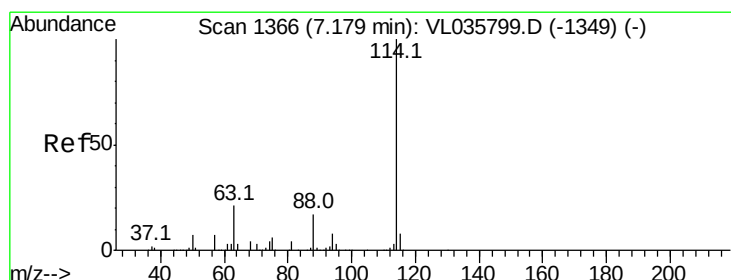
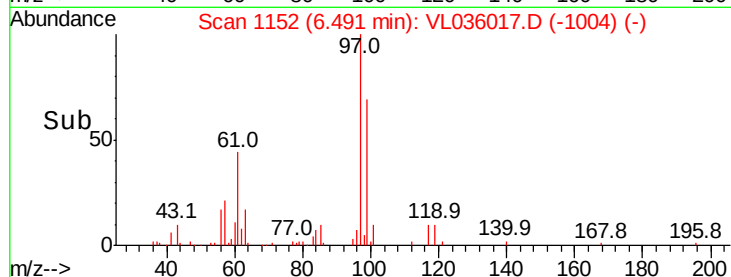
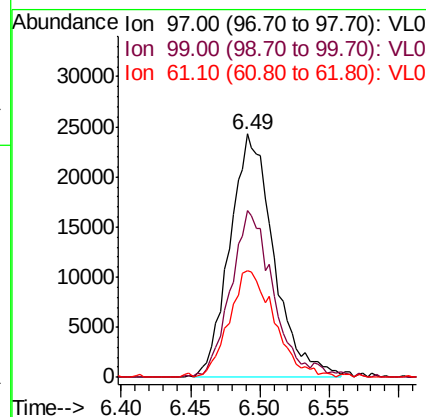
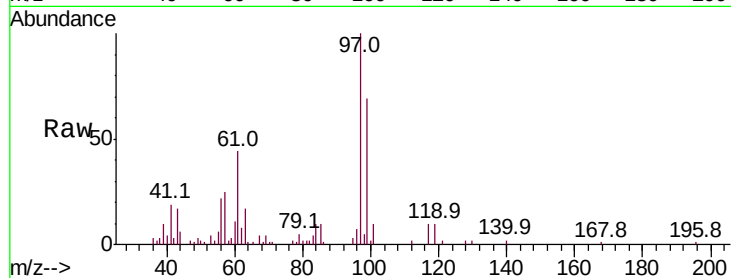
ClientSampled :

SVP-01

Tot Ion:	97	Resp:	53412
Ion Ratio	Lower	Upper	
97	100		
99	67.1	52.3	78.5
61	45.8	32.0	48.0

Manual Integrations
APPROVED

MMDadoda
11/27/2020 1:17:41 PM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

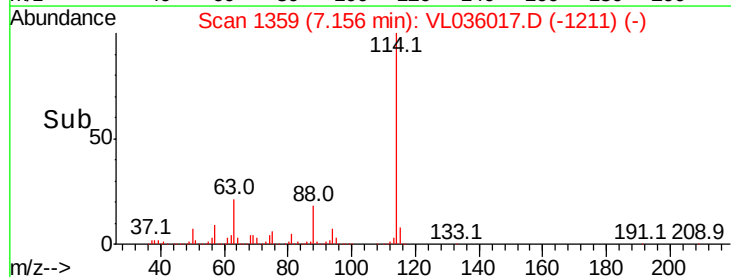
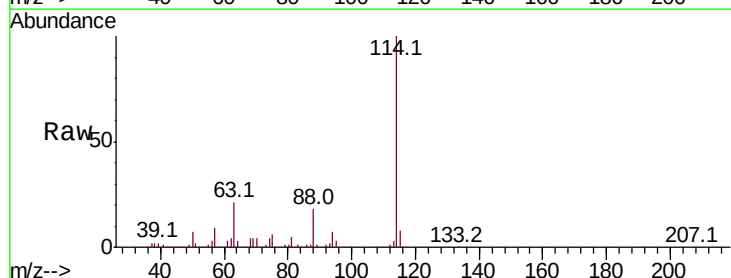
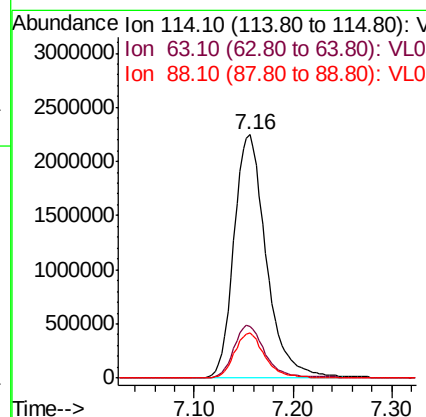
RT: 7.16 min Scan# 1359

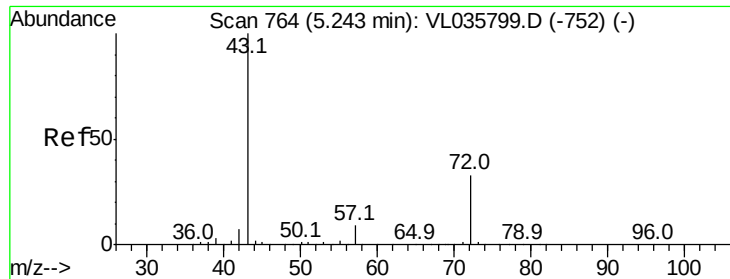
Delta R.T. -0.02 min

Lab File: VL036017.D

Acq: 25 Nov 2020 6:09

Tgt Ion:	114	Resp:	5107957
Ion Ratio	Lower	Upper	
114	100		
63	21.3	16.1	24.1
88	17.6	13.7	20.5





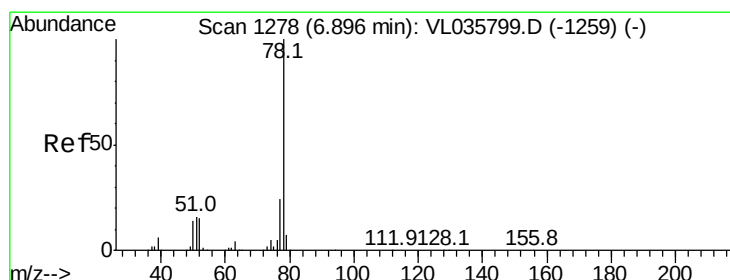
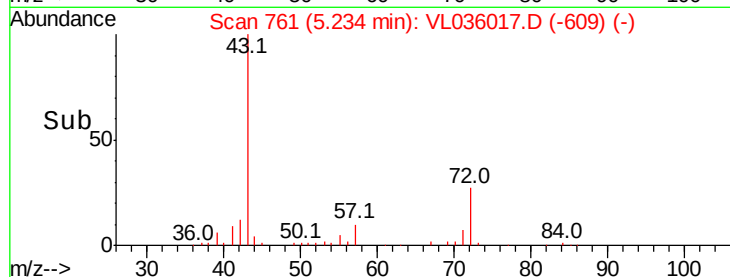
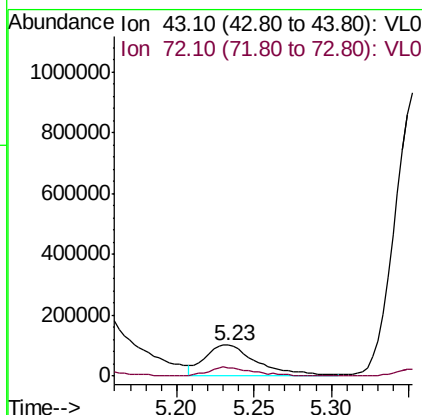
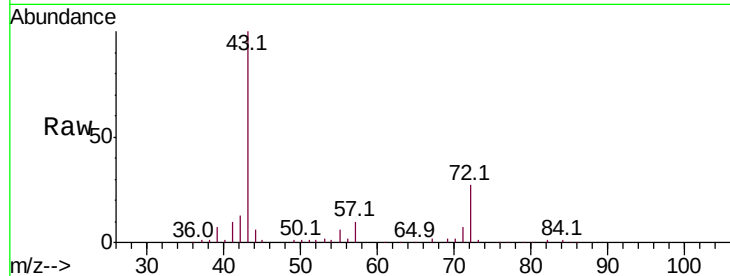
#34
2-Butanone
Concen: 1.390 ppbv
RT: 5.23 min Scan# 761
Delta R.T. -0.01 min
Lab File: VL036017.D
Acq: 25 Nov 2020 6:09

Instrument :
MSVOA_L
ClientSampled :
SVP-01

Tot Ion: 43 Resp: 230402
Ion Ratio Lower Upper
43 100
72 27.0 26.5 39.7

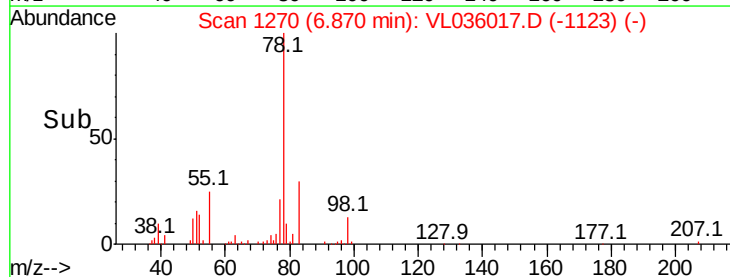
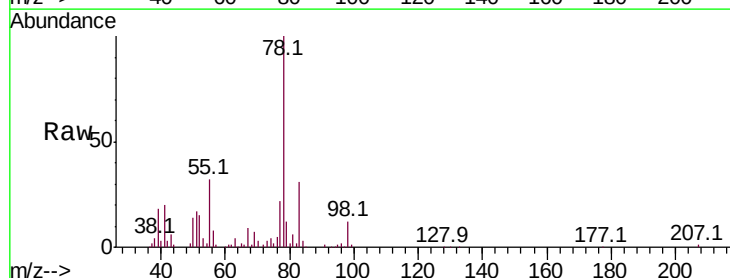
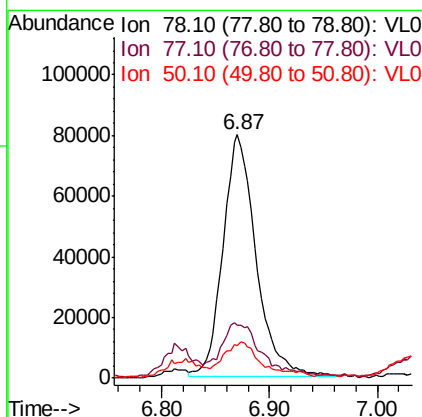
Manual Integrations
APPROVED

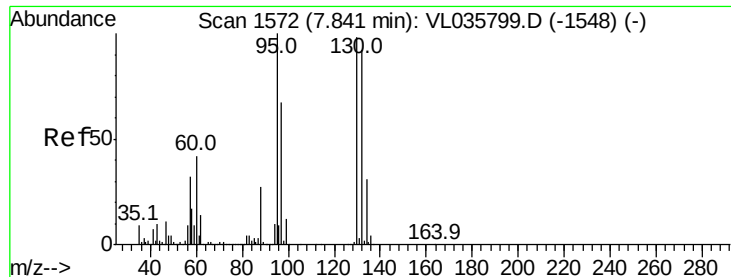
MMDadoda
11/27/2020 1:17:41 PM



#36
Benzene
Concen: 0.448 ppbv
RT: 6.87 min Scan# 1270
Delta R.T. -0.03 min
Lab File: VL036017.D
Acq: 25 Nov 2020 6:09

Tgt Ion: 78 Resp: 170256
Ion Ratio Lower Upper
78 100
77 20.5 19.3 28.9
50 12.8 11.4 17.2





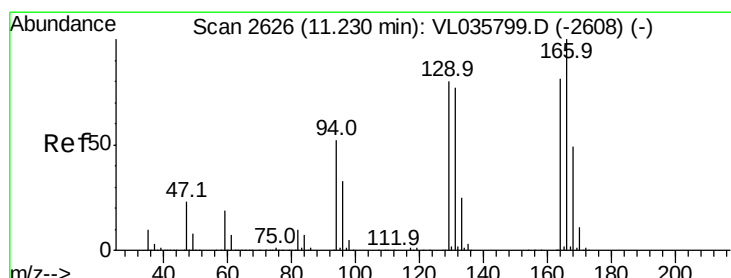
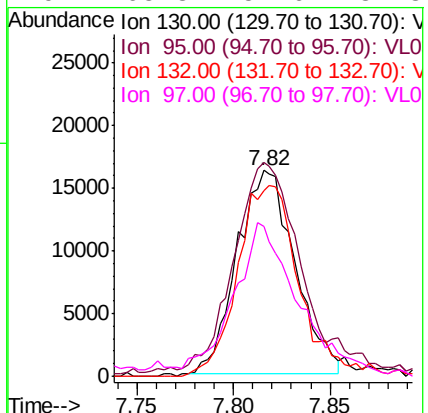
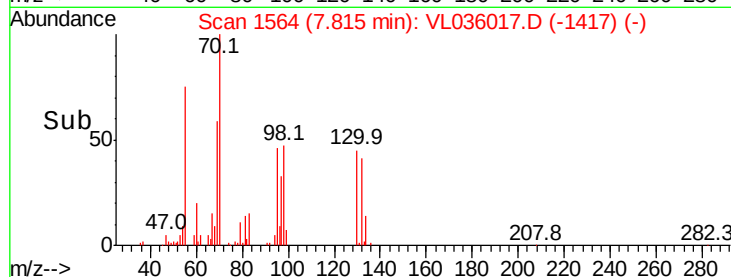
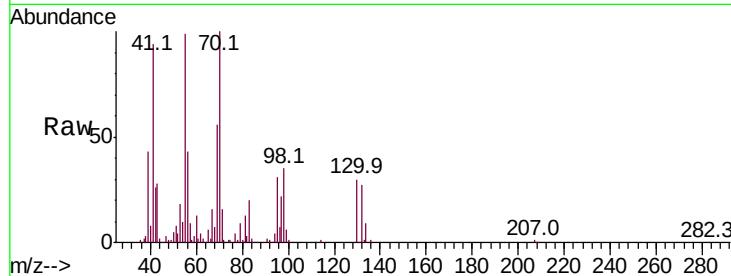
#38
 Trichloroethene
 Concen: 0.181 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. -0.03 min
 Lab File: VL036017.D
 Acq: 25 Nov 2020 6:09

Instrument :
 MSVOA_L
 ClientSampled :
 SVP-01

Tot Ion	Ratio	Lower	Upper
130	100		
95	99.8	81.6	122.4
132	90.5	75.1	112.7
97	65.3	54.6	81.8

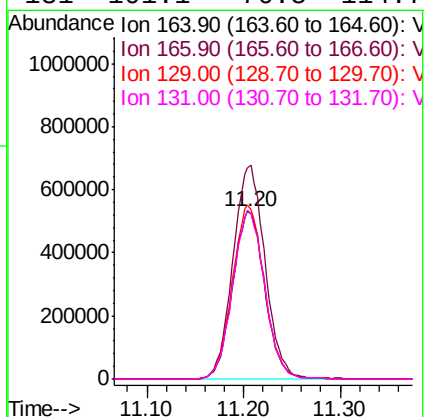
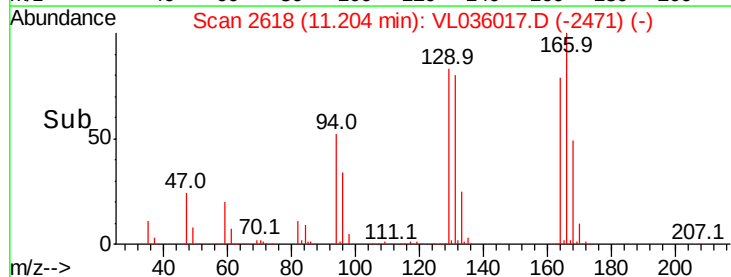
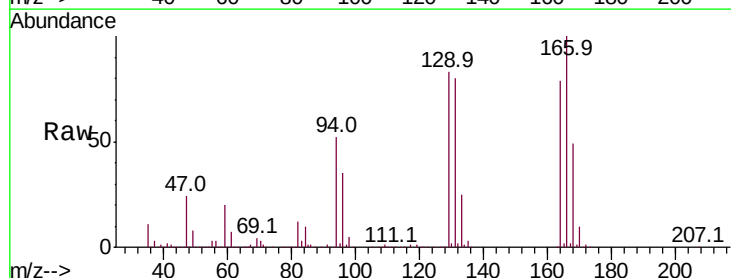
Manual Integrations
 APPROVED

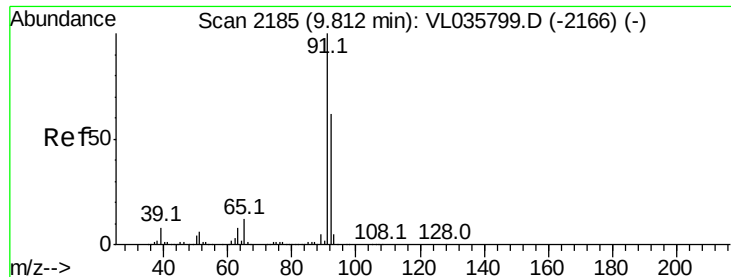
MMDadoda
 11/27/2020 1:17:41 PM



#52
 Tetrachloroethene
 Concen: 6.810 ppbv
 RT: 11.20 min Scan# 2618
 Delta R.T. -0.03 min
 Lab File: VL036017.D
 Acq: 25 Nov 2020 6:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.9	99.3	148.9
129	104.1	79.3	118.9
131	101.1	76.5	114.7





#53

Toluene

Concen: 40.626 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.02 min

Lab File: VL036017.D

Acq: 25 Nov 2020 6:09

Instrument :

MSVOA_L

ClientSampleId :

SVP-01

Tot Ion: 91 Resp: 18615044

Ion Ratio Lower Upper

91 100

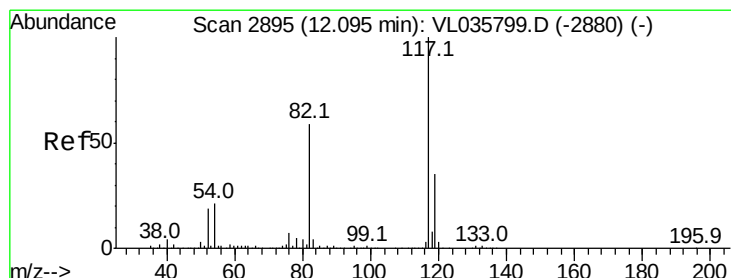
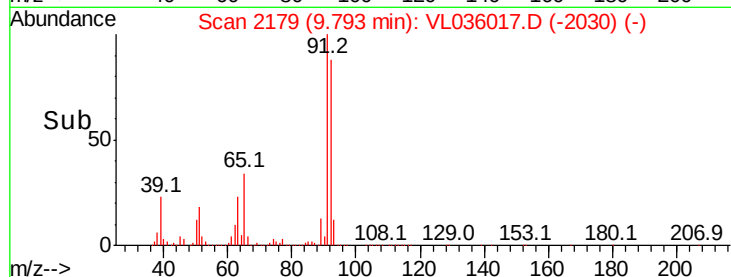
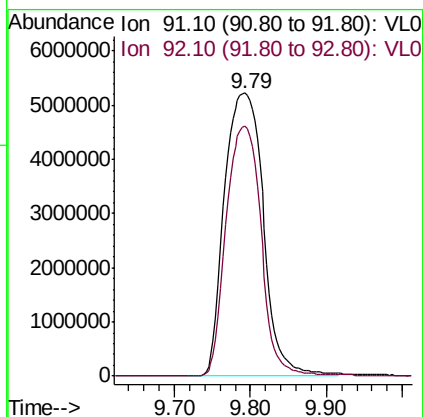
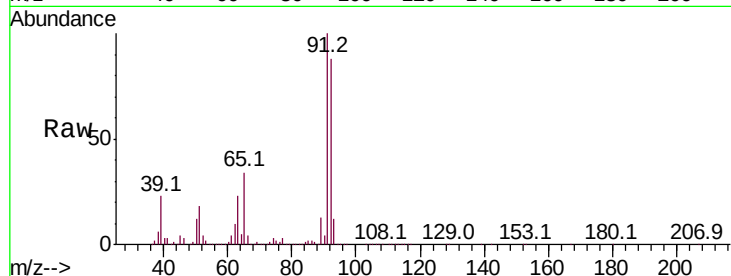
92 79.8 49.8 74.6#

Manual Integrations

APPROVED

MMDadoda

11/27/2020 1:17:41 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL036017.D

Acq: 25 Nov 2020 6:09

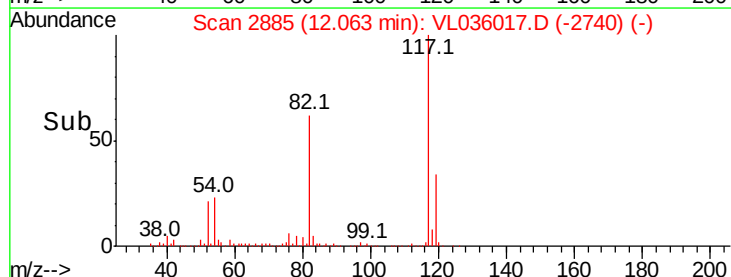
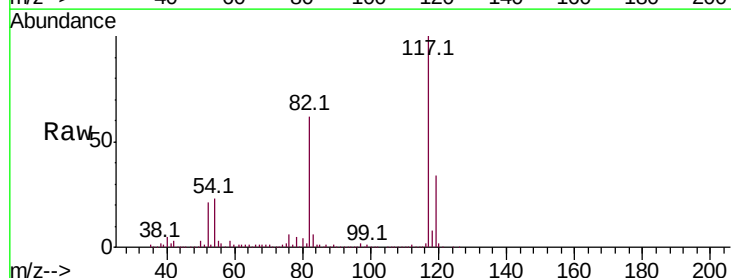
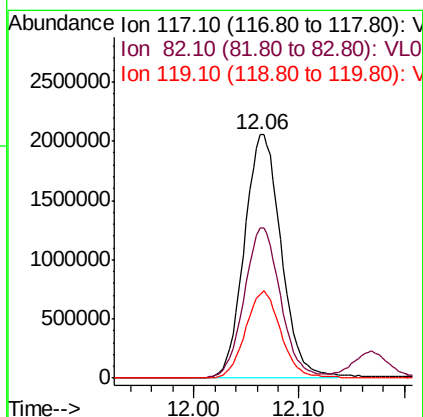
Tgt Ion: 117 Resp: 4991211

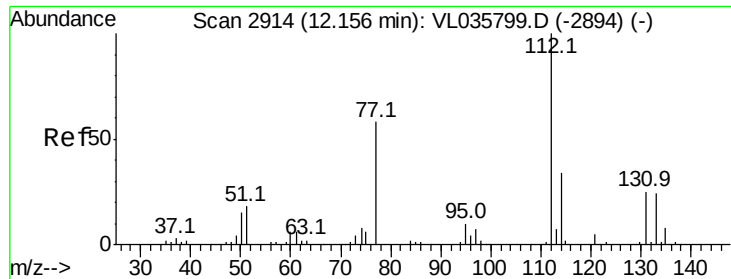
Ion Ratio Lower Upper

117 100

82 61.3 50.6 76.0

119 34.8 52.6 78.8#





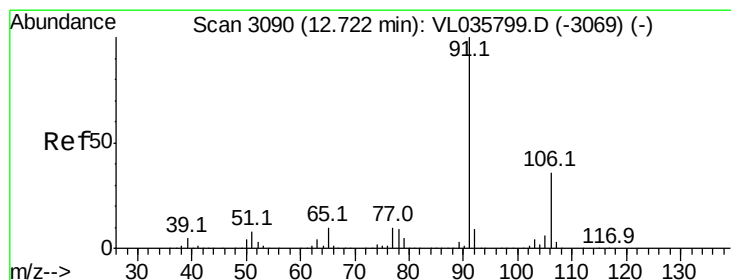
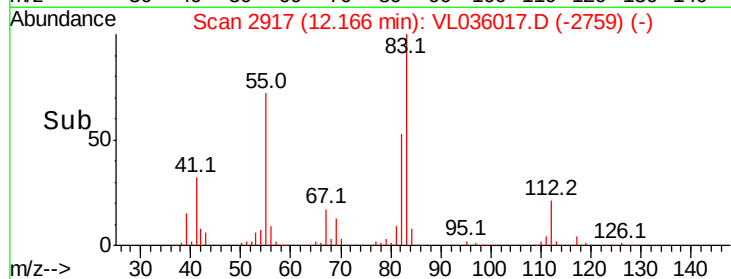
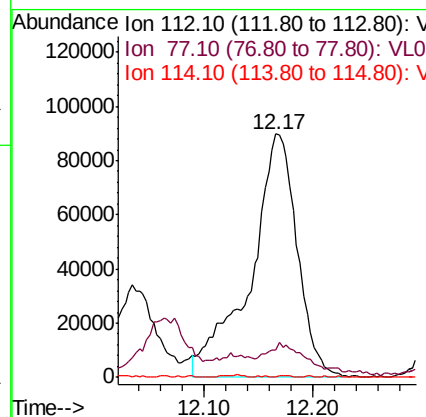
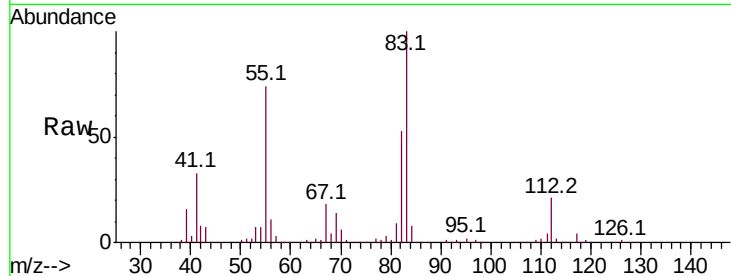
#57
Chlorobenzene
Concen: 0.678 ppbv m
RT: 12.17 min Scan# 2917
Delta R.T. 0.01 min
Lab File: VL036017.D
Acq: 25 Nov 2020 6:09

Instrument :
MSVOA_L
ClientSampled :
SVP-01

Tot Ion	Ratio	Resp Lower	Upper
112	100		
77	11.4	47.5	71.3#
114	0.4	30.3	37.1#

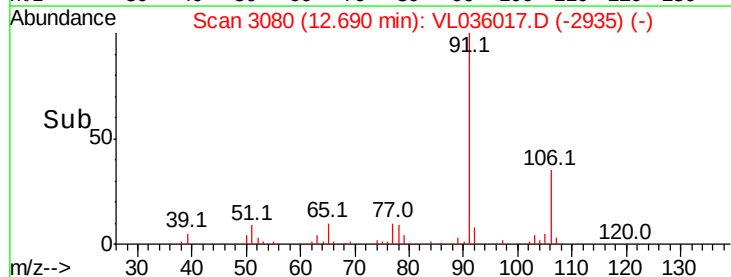
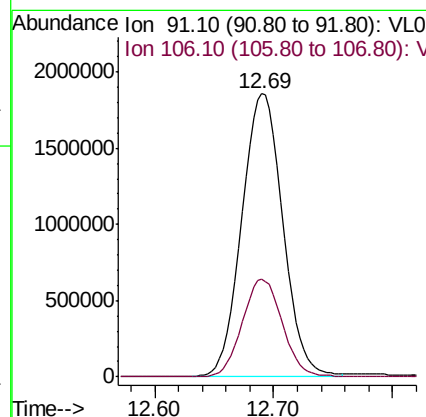
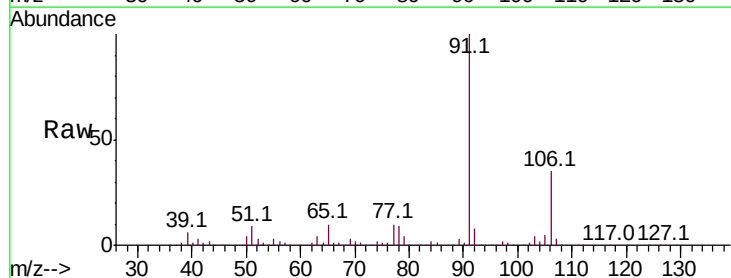
Manual Integrations
APPROVED

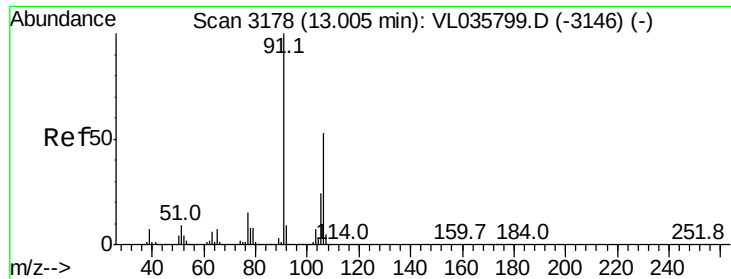
MMDadoda
11/27/2020 1:17:41 PM



#58
Ethyl Benzene
Concen: 7.278 ppbv
RT: 12.69 min Scan# 3080
Delta R.T. -0.03 min
Lab File: VL036017.D
Acq: 25 Nov 2020 6:09

Tgt Ion	Ratio	Resp Lower	Upper
91	100		
106	34.8	28.6	43.0





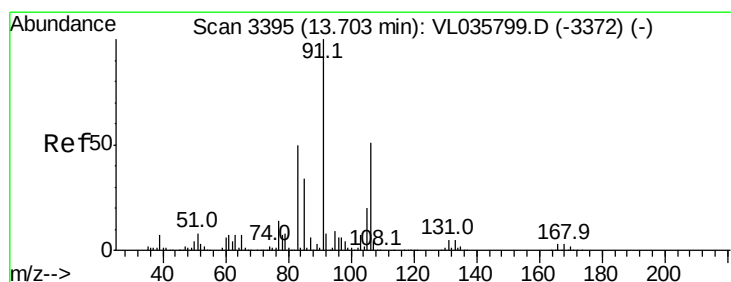
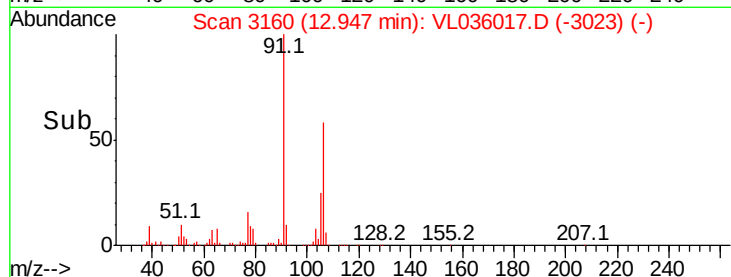
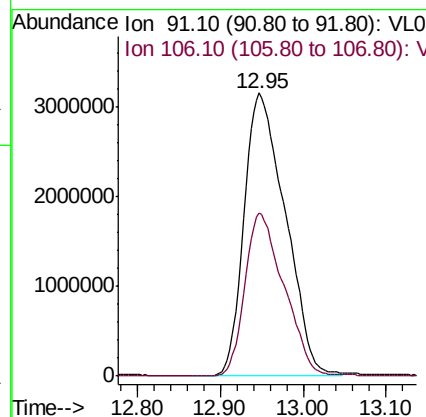
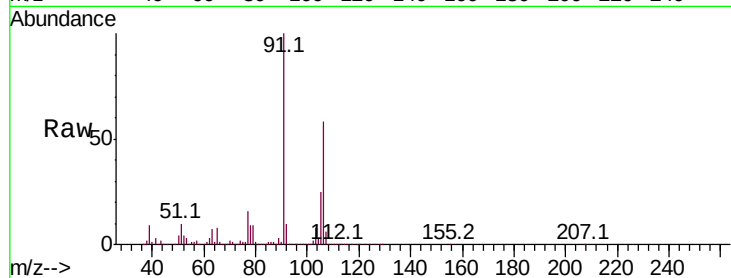
#59
m/p-Xylene
Concen: 21.124 ppbv
RT: 12.95 min Scan# 3160
Delta R.T. -0.06 min
Lab File: VL036017.D
Acq: 25 Nov 2020 6:09

Instrument :
MSVOA_L
ClientSampled :
SVP-01

Tot Ion: 91 Resp:10864607
Ion Ratio Lower Upper
91 100
106 55.2 39.5 59.3

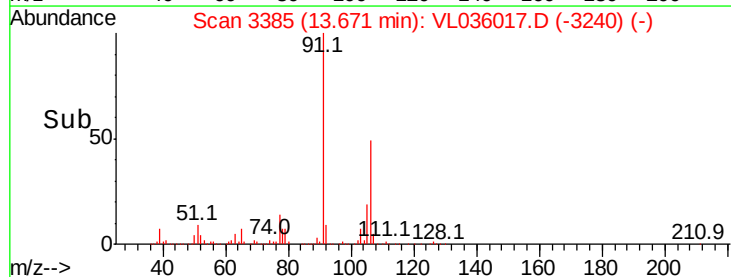
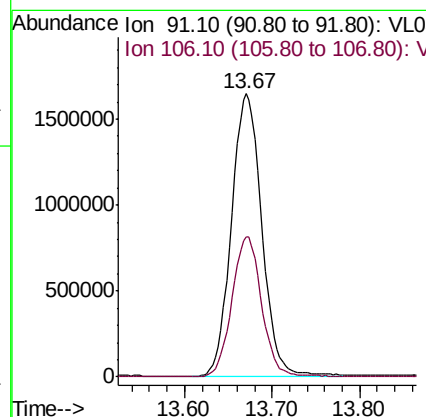
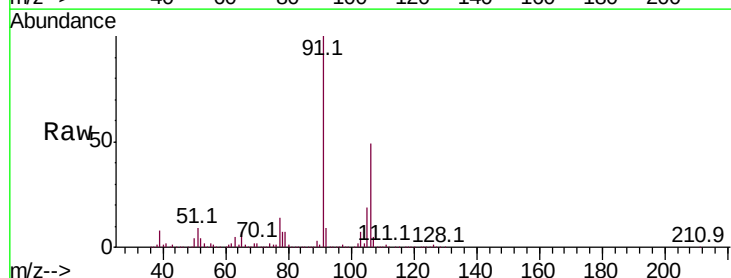
Manual Integrations
APPROVED

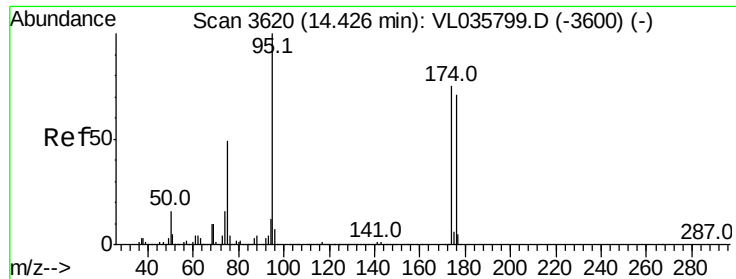
MMDadoda
11/27/2020 1:17:41 PM



#60
o-Xylene
Concen: 7.876 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.03 min
Lab File: VL036017.D
Acq: 25 Nov 2020 6:09

Tgt Ion: 91 Resp: 3940319
Ion Ratio Lower Upper
91 100
106 49.1 24.8 74.4





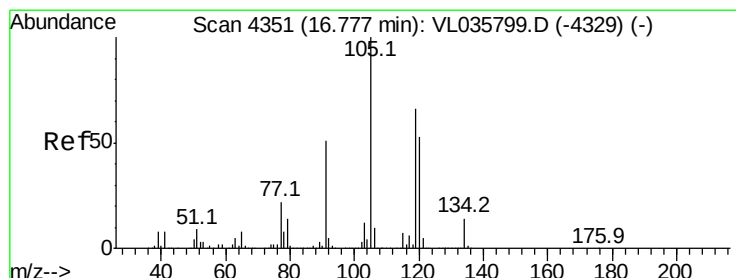
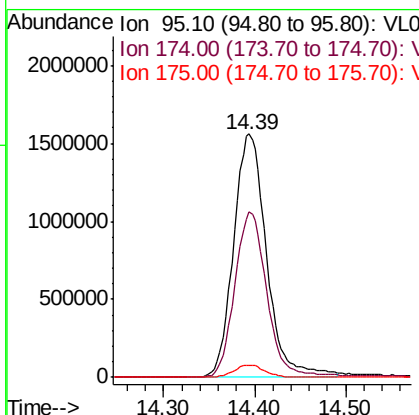
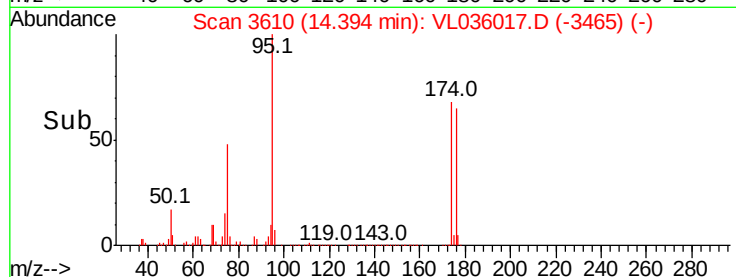
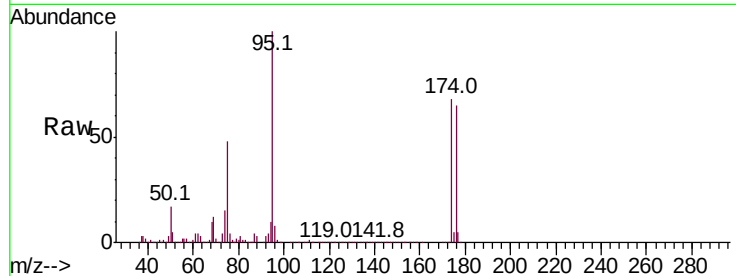
#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.048 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.03 min
 Lab File: VL036017.D
 Acq: 25 Nov 2020 6:09

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-01

Tot Ion: 95 Resp: 3917782
 Ion Ratio Lower Upper
 95 100
 174 67.9 59.8 89.6
 175 4.8 4.3 6.5

Manual Integrations
 APPROVED

MMDadoda
 11/27/2020 1:17:41 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.141 ppbv m
 RT: 16.74 min Scan# 4341
 Delta R.T. -0.03 min
 Lab File: VL036017.D
 Acq: 25 Nov 2020 6:09

Tgt Ion: 105 Resp: 83955
 Ion Ratio Lower Upper
 105 100
 120 46.2 42.0 63.0
 91 16.3 41.0 61.6#
 77 17.2 17.3 25.9#

