

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012821\
 Data File : VL036286.D
 Acq On : 29 Jan 2021 00:33
 Operator : SY/AP
 Sample : M1245-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4

Manual Integrations
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 2/1/2021 1:52:47 PM

Quant Time: Jan 31 17:28:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 1
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1419113	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3282386	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2963142	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2426156	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	50184m	0.264	ppbv	
3) Chlorodifluoromethane	2.98	51	170750	0.980	ppbv #	90
4) Chloromethane	3.13	50	50493	0.586	ppbv	89
9) Propene	3.01	41	164549	1.983	ppbv #	73
10) Heptane	8.11	43	671058	3.257	ppbv	97
11) Trichlorofluoromethane	3.94	101	50655	0.262	ppbv	84
13) Ethanol	3.62	45	2227327	170.909	ppbv	84
15) Acetone	3.84	43	3171636	18.249	ppbv	90
17) tert-Butyl alcohol	4.31	59	396326m	2.763	ppbv	
20) Methylene Chloride	4.34	84	790788	14.256	ppbv	98
26) Hexane	5.68	57	1712738	11.790	ppbv #	38
27) Carbon Disulfide	4.54	76	27566m	0.237	ppbv	
30) Cyclohexane	7.13	84	180488m	1.626	ppbv	
34) 2-Butanone	5.25	43	164754m	0.682	ppbv	
35) Carbon Tetrachloride	7.01	117	13992m	0.067	ppbv	
36) Benzene	6.88	78	735672	2.446	ppbv	95
38) Trichloroethene	7.83	130	13831m	0.124	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	882914	1.598	ppbv #	86
52) Tetrachloroethene	11.21	164	5746m	0.052	ppbv	
53) Toluene	9.80	91	6755602	20.080	ppbv	97
58) Ethyl Benzene	12.70	91	1627559	3.701	ppbv	96
59) m/p-Xylene	12.96	91	4825862	12.773	ppbv	96
60) o-Xylene	13.68	91	1677641	4.606	ppbv	100
62) Isopropylbenzene	14.66	105	74346	0.137	ppbv	92
64) n-propylbenzene	15.55	120	63382	0.476	ppbv #	56
65) tert-Butylbenzene	16.75	119	142525	0.311	ppbv #	63
70) n-Butylbenzene	18.55	91	86357m	0.150	ppbv	
72) 4-Ethyltoluene	15.84	105	517620	1.259	ppbv	99
73) 1,3,5-Trimethylbenzene	15.99	105	333860	0.852	ppbv	95
74) 1,2,4-Trimethylbenzene	16.76	105	1346286	3.350	ppbv #	68
79) Naphthalene	22.20	128	35024m	0.149	ppbv	

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

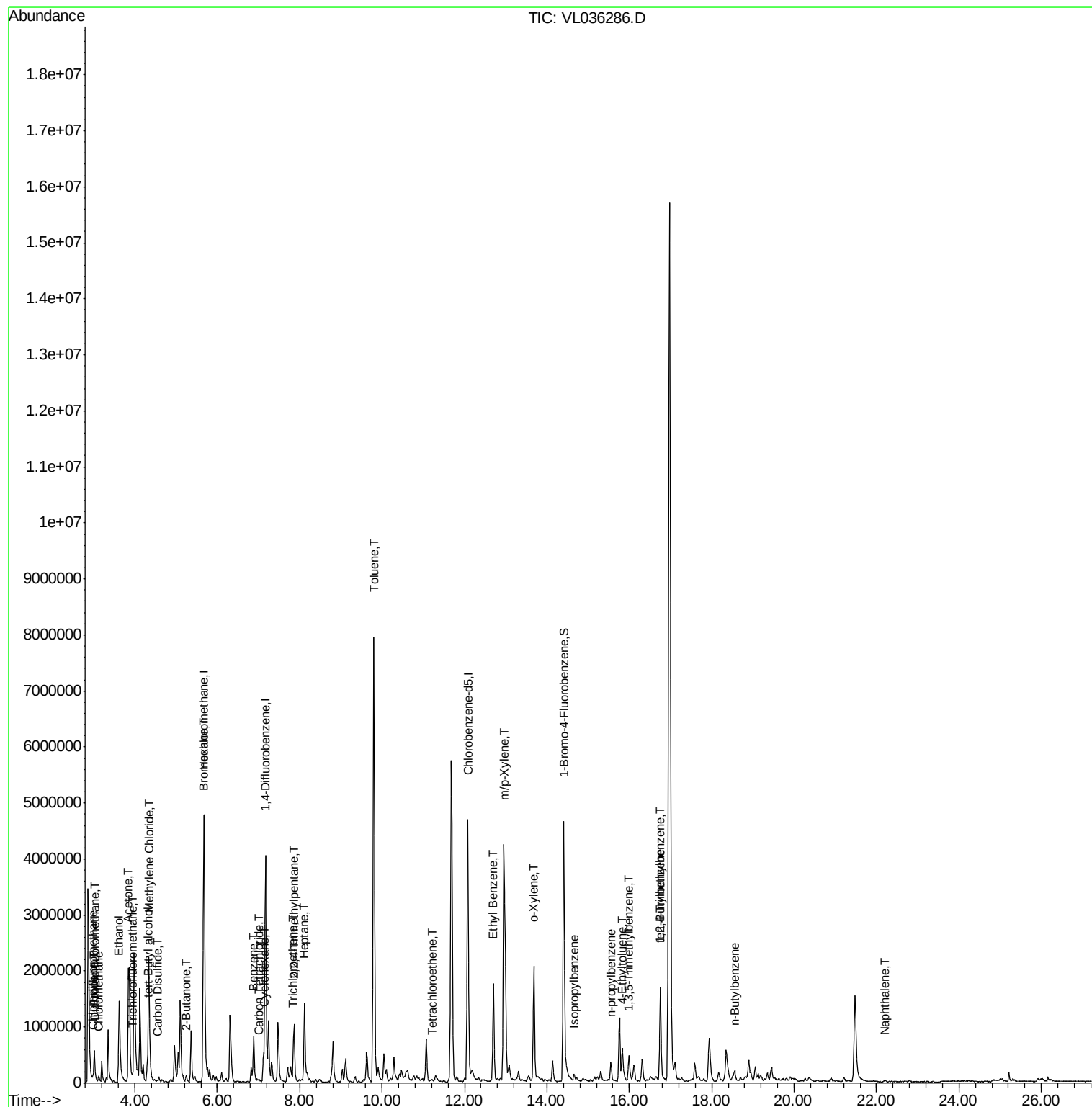
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL012821\
Data File : VL036286.D
Acq On : 29 Jan 2021 00:33
Operator : SY/AP
Sample : M1245-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

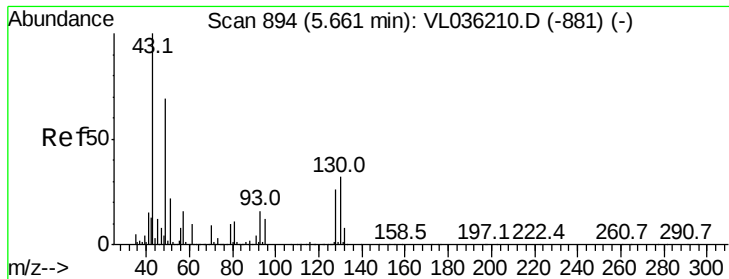
Instrument :
MSVOA_L
ClientSampleId :
SS-4

Manual Integrations
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Quant Time: Jan 31 17:28:00 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 14 16:13:38 2021
Response via : Initial Calibration





#1

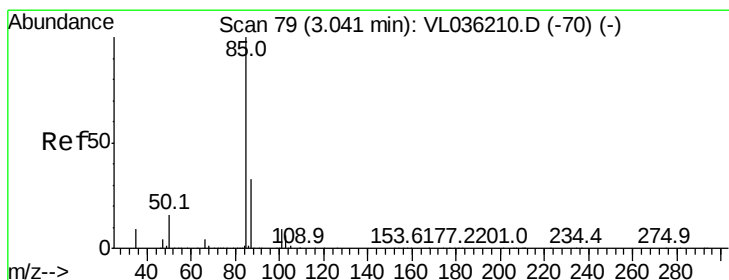
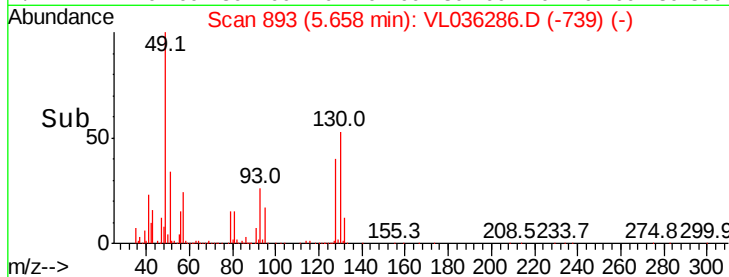
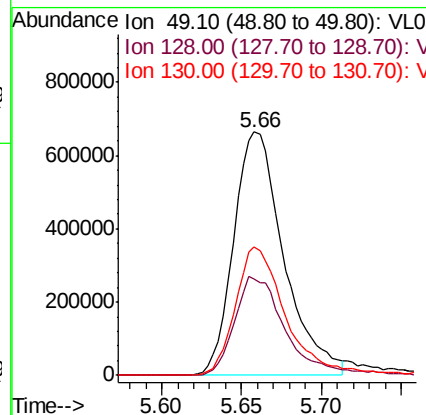
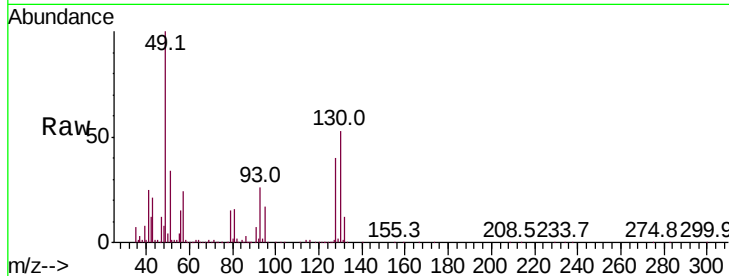
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. -0.00 min
 Lab File: VL036286.D
 Acq: 29 Jan 2021 00:33

Instrument :
 MSVOA_L
 ClientSampled :
 SS-4

Tot Ion: 49 Resp: 1419113
 Ion Ratio Lower Upper
 49 100
 128 42.2 20.1 60.2
 130 54.4 25.3 75.9

Manual Integrations
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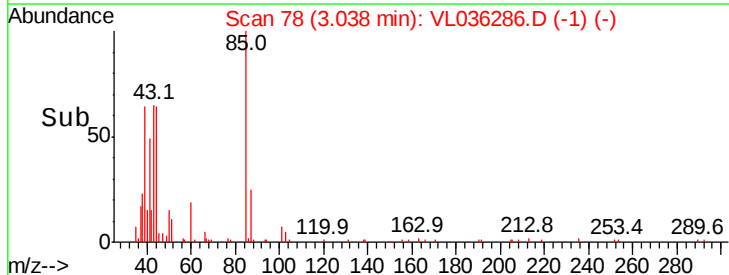
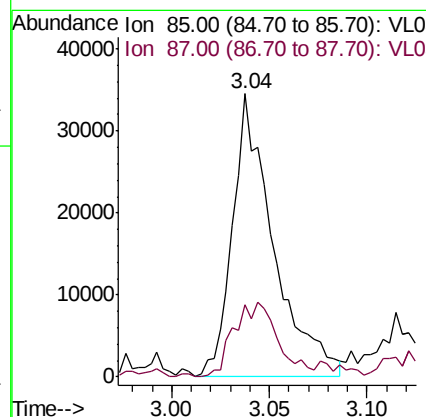
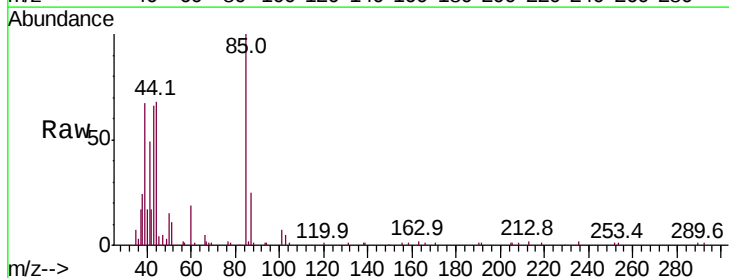
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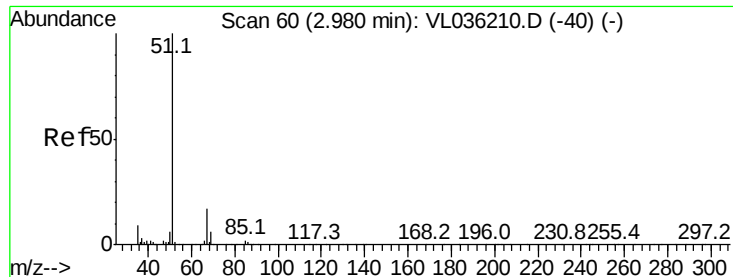


#2

Dichlorodifluoromethane
 Concen: 0.264 ppbv m
 RT: 3.04 min Scan# 78
 Delta R.T. -0.00 min
 Lab File: VL036286.D
 Acq: 29 Jan 2021 00:33

Tgt Ion: 85 Resp: 50184
 Ion Ratio Lower Upper
 85 100
 87 25.4 26.4 39.6#





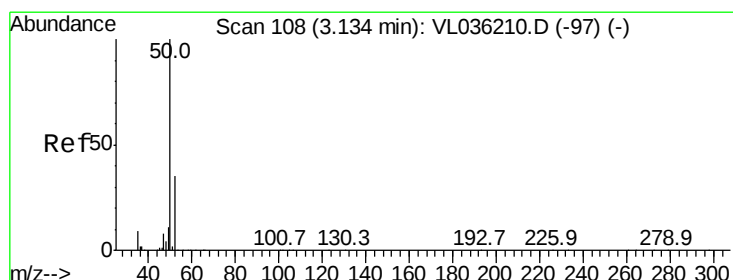
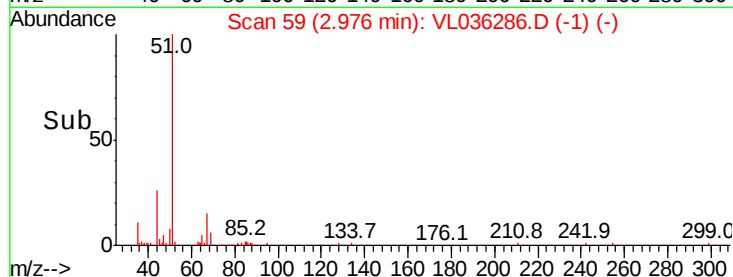
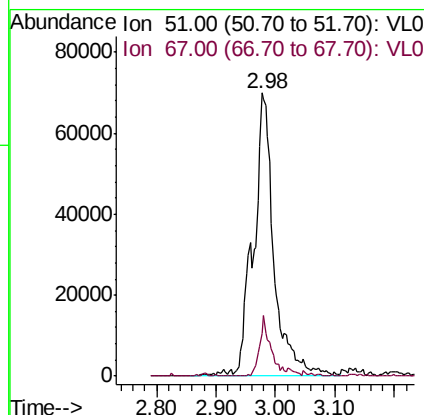
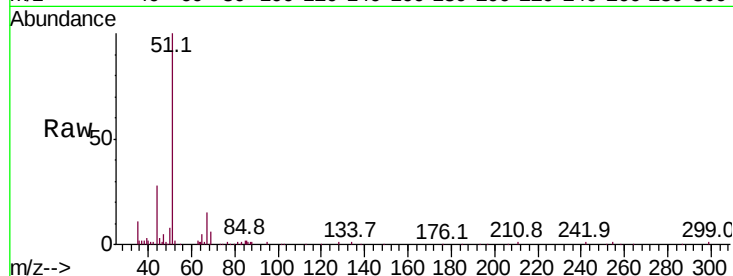
#3
Chlorodifluoromethane
Concen: 0.980 ppbv
RT: 2.98 min Scan# 59
Delta R.T. -0.00 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
SS-4

Tot Ion	Ratio	Lower	Upper
51	100		
67	13.0	14.0	21.0#

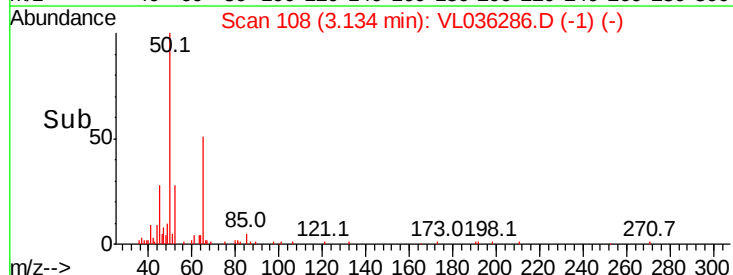
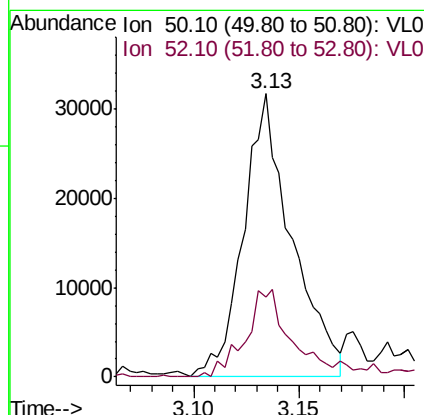
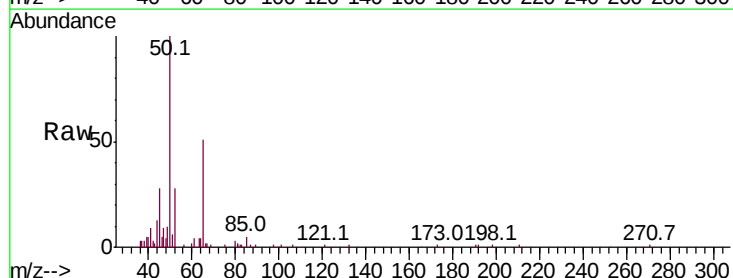
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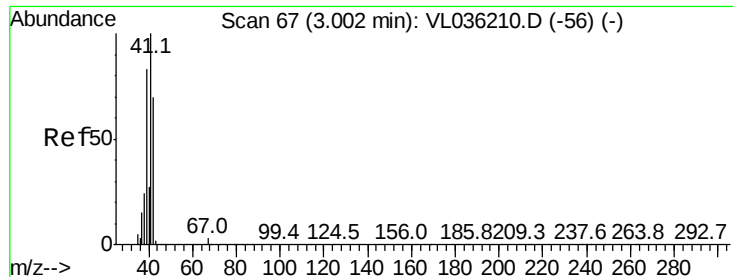
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#4
Chloromethane
Concen: 0.586 ppbv
RT: 3.13 min Scan# 108
Delta R.T. -0.00 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Tgt Ion	Ratio	Lower	Upper
50	100		
52	28.4	27.8	41.8





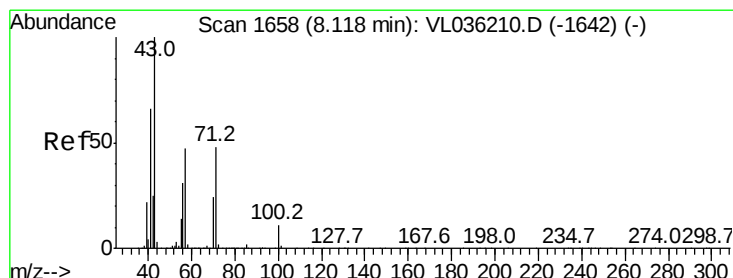
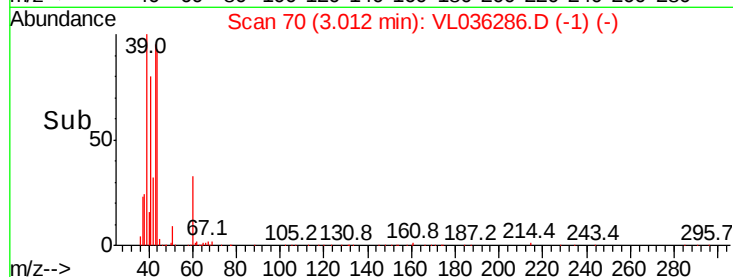
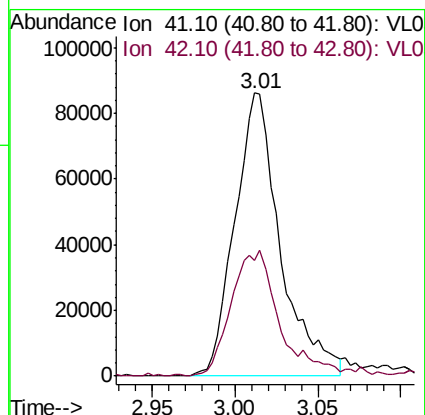
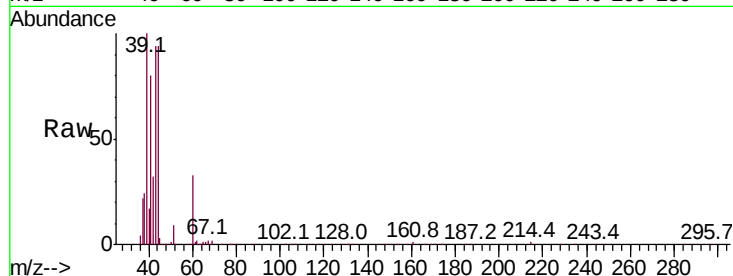
#9
 Propene
 Concen: 1.983 ppbv
 RT: 3.01 min Scan# 70
 Delta R.T. 0.01 min
 Lab File: VL036286.D
 Acq: 29 Jan 2021 00:33

Instrument :
 MSVOA_L
 ClientSampled :
 SS-4

Tot Ion: 41 Resp: 164549
 Ion Ratio Lower Upper
 41 100
 42 49.4 57.1 85.7#

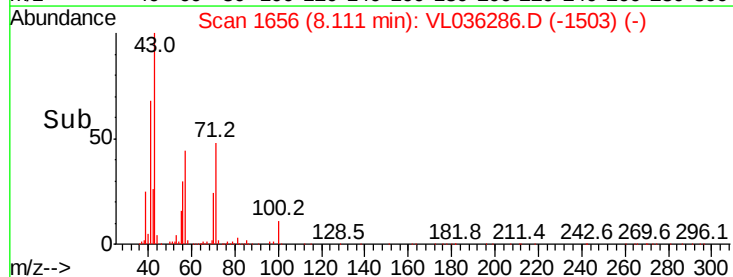
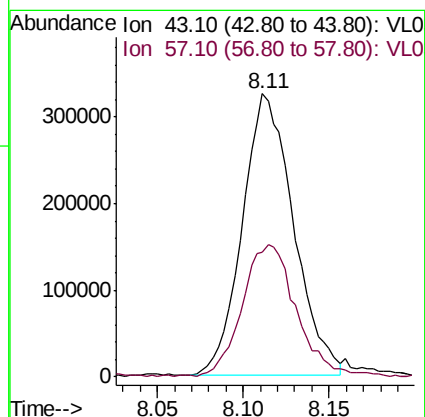
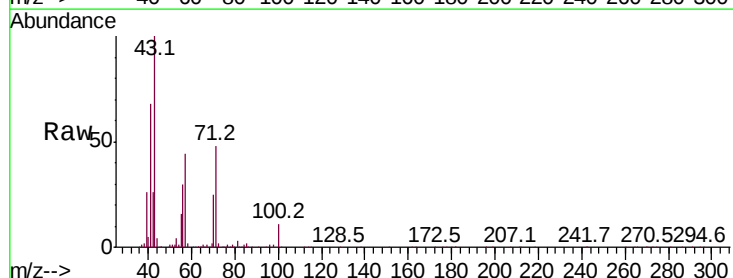
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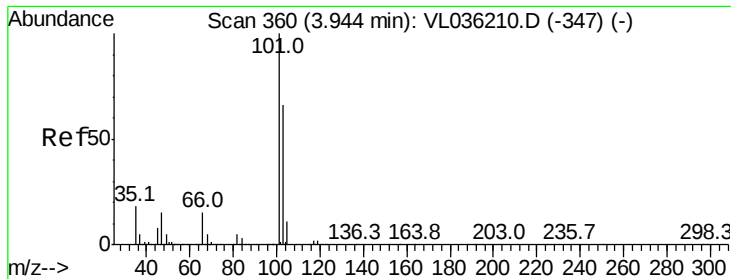
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#10
 Heptane
 Concen: 3.257 ppbv
 RT: 8.11 min Scan# 1656
 Delta R.T. -0.01 min
 Lab File: VL036286.D
 Acq: 29 Jan 2021 00:33

Tgt Ion: 43 Resp: 671058
 Ion Ratio Lower Upper
 43 100
 57 49.6 38.1 57.1





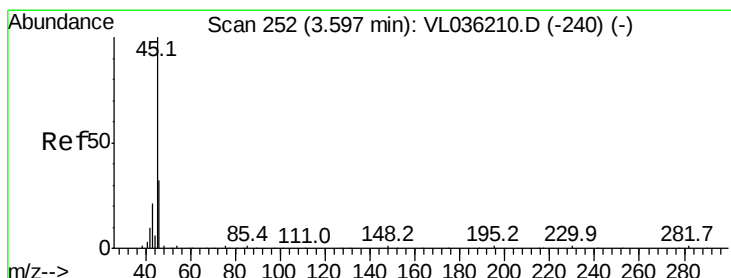
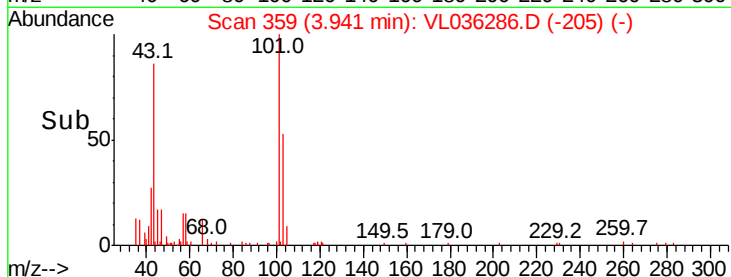
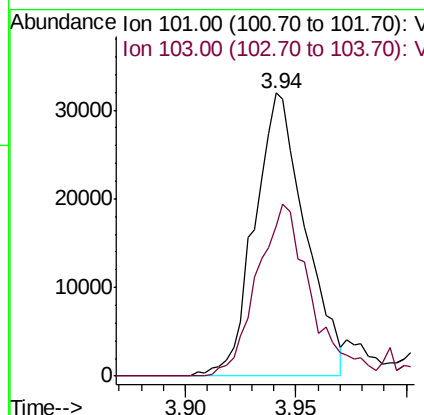
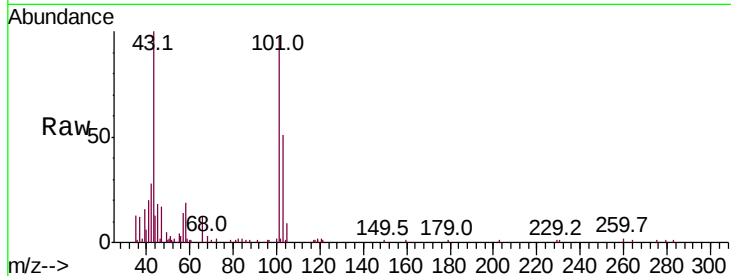
#11
Trichlorofluoromethane
Concen: 0.262 ppbv
RT: 3.94 min Scan# 359
Delta R.T. -0.00 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
SS-4

Tot Ion	Ratio	Lower	Upper
101	100		
103	52.9	52.6	78.8

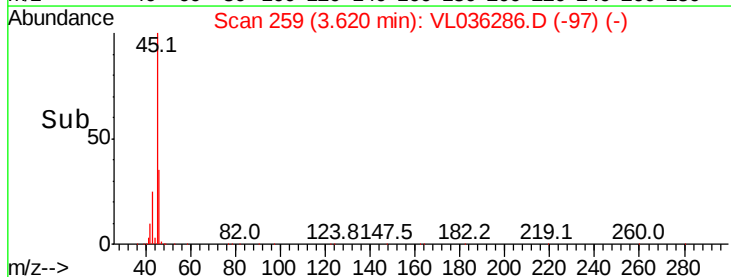
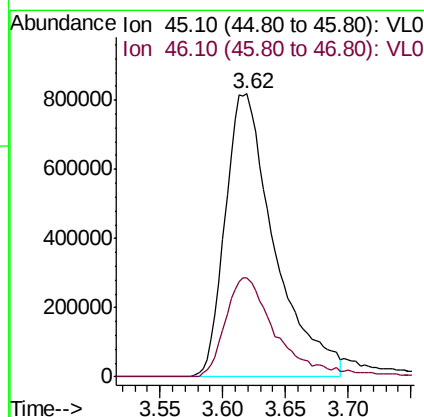
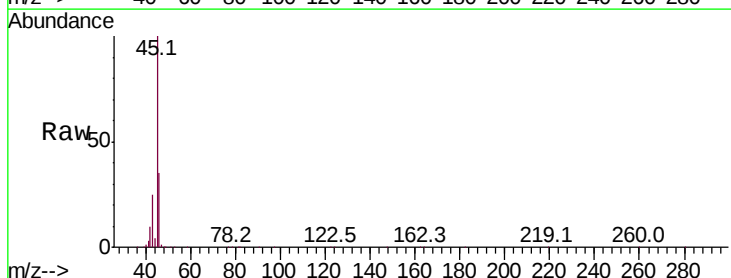
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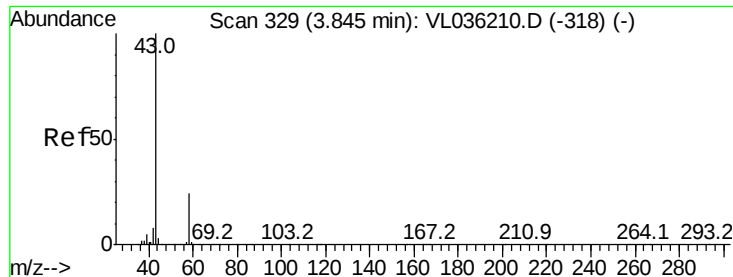
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#13
Ethanol
Concen: 170.909 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.02 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.5	19.2	77.0





#15

Acetone

Concen: 18.249 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL036286.D

Acq: 29 Jan 2021 00:33

Instrument :

MSVOA_L

ClientSampled :

SS-4

Tot Ion: 43 Resp: 3171636

Ion Ratio Lower Upper

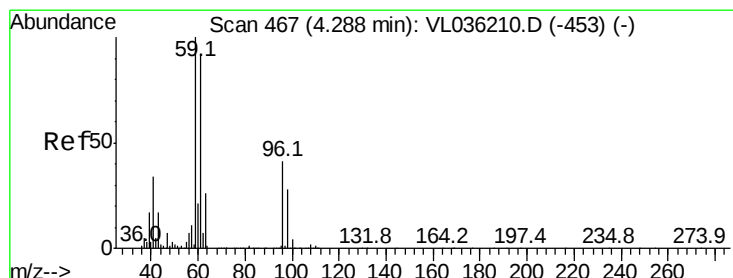
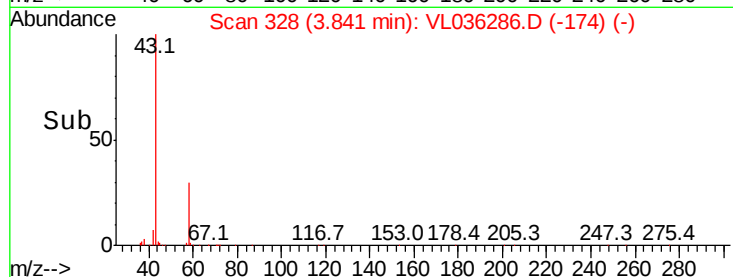
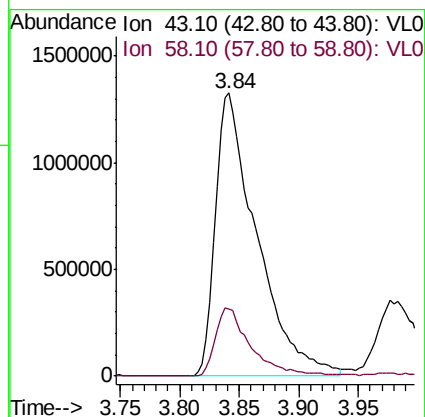
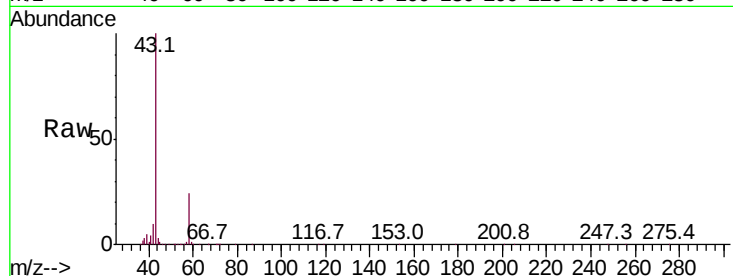
43 100

58 21.2 20.9 31.3

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 2.763 ppbv m

RT: 4.31 min Scan# 473

Delta R.T. 0.02 min

Lab File: VL036286.D

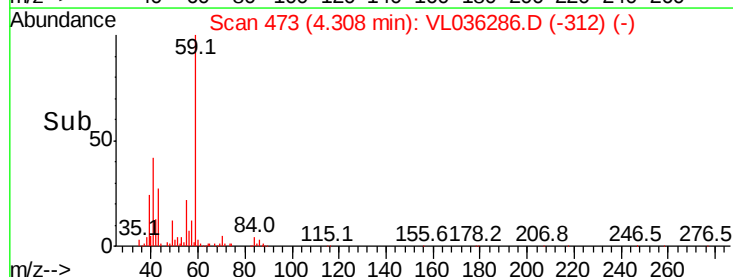
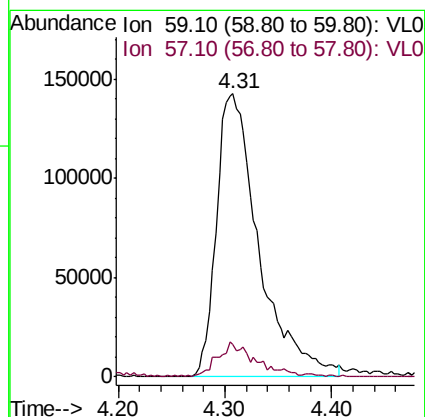
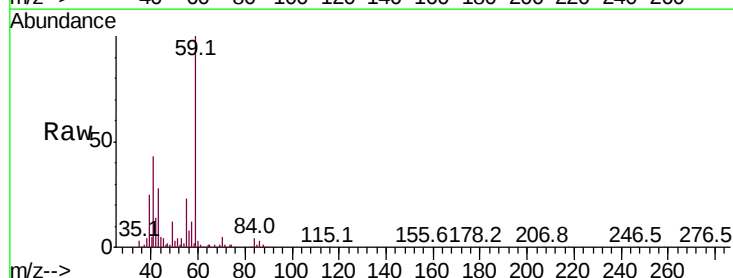
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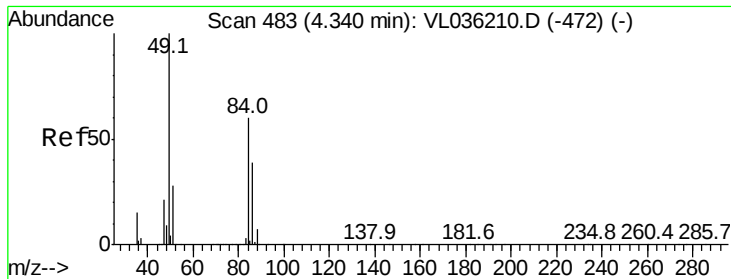
Tgt Ion: 59 Resp: 396326

Ion Ratio Lower Upper

59 100

57 11.9 9.2 13.8





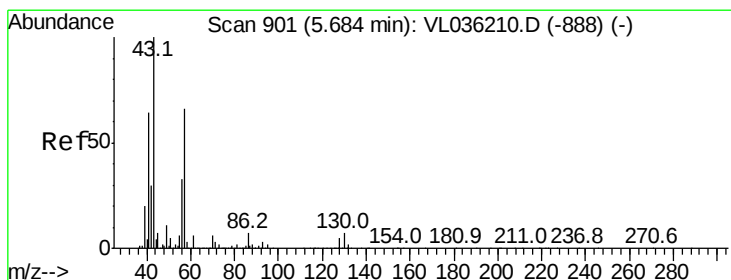
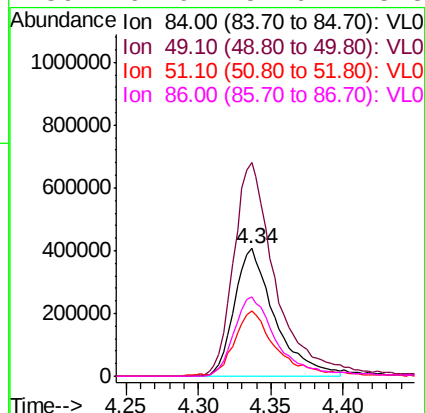
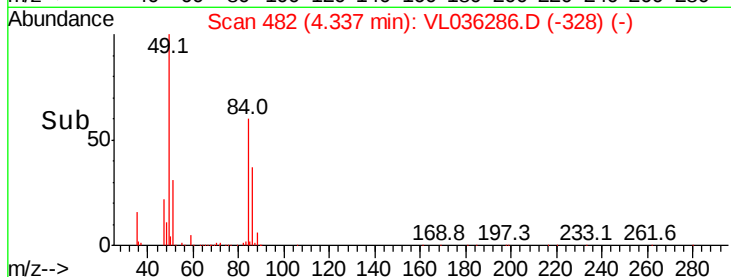
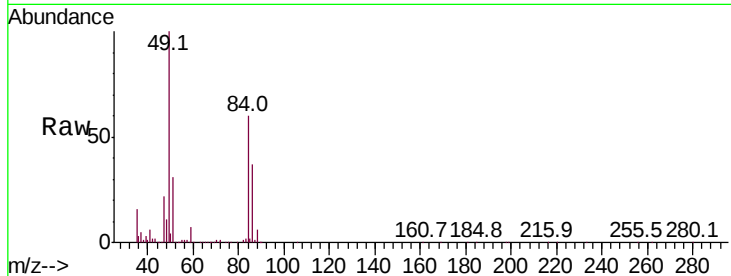
#20
Methvlene Chloride
Concen: 14.256 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Instrument :
MSVOA_L
ClientSampled :
SS-4

Tot Ion	Ratio	Lower	Upper
84	100		
49	166.9	134.1	201.1
51	50.7	37.4	56.0
86	61.9	52.6	78.8

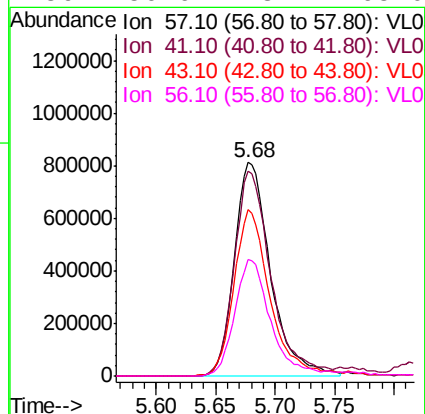
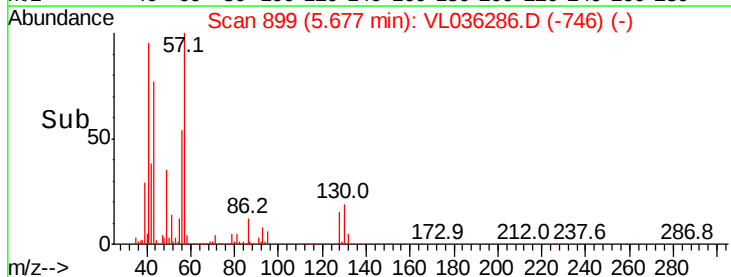
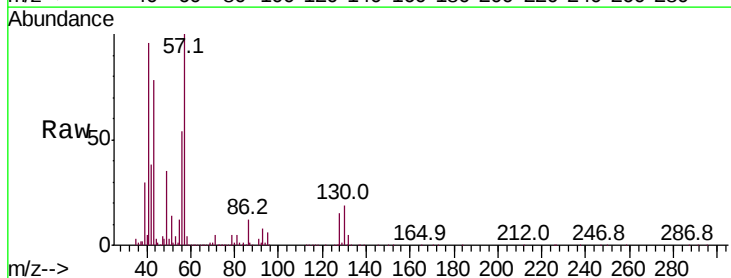
Manual Integrations
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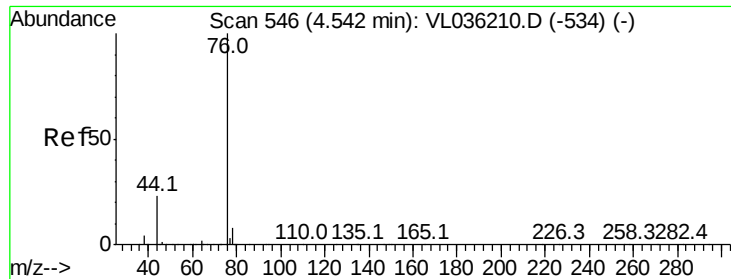
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#26
Hexane
Concen: 11.790 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Tgt Ion	Ratio	Lower	Upper
57	100		
41	101.3	83.0	124.6
43	78.6	202.4	303.6#
56	56.6	43.4	65.0





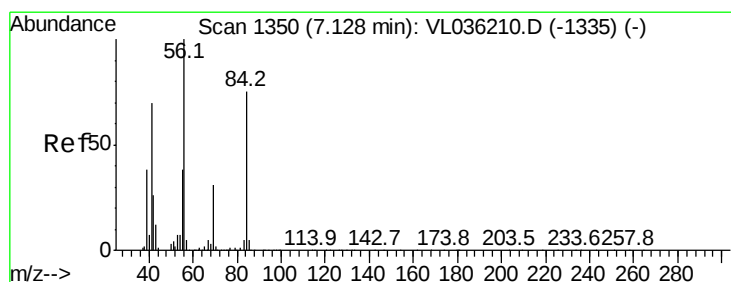
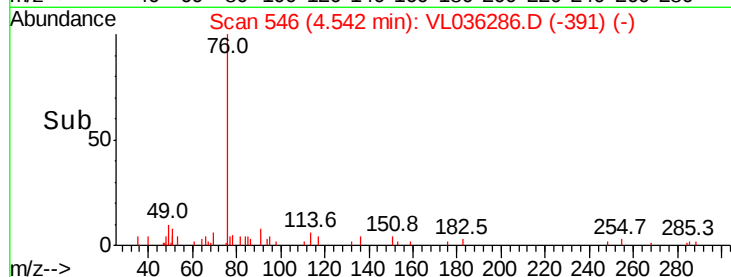
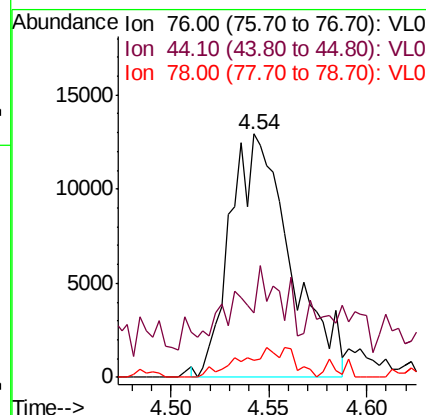
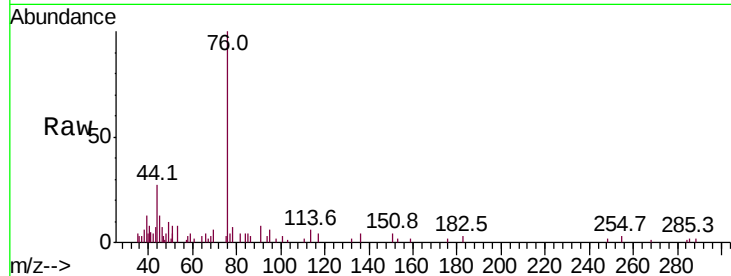
#27
Carbon Disulfide
Concen: 0.237 ppbv m
RT: 4.54 min Scan# 546
Delta R.T. -0.00 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Instrument :
MSVOA_L
ClientSampled :
SS-4

Tot Ion	Ratio	Lower	Upper
76	100		
44	45.8	19.0	28.6#
78	0.0	8.0	12.0#

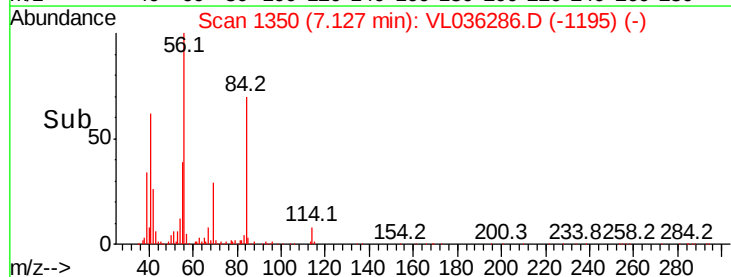
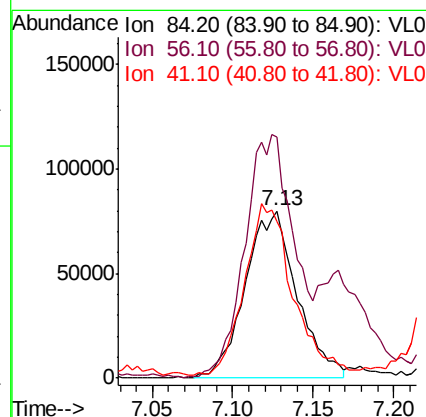
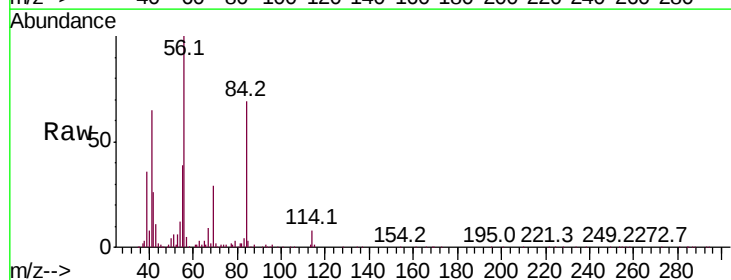
Manual Integrations
APPROVED

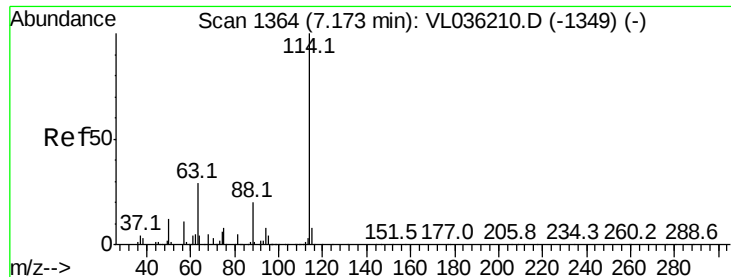
MMDadoda
2/1/2021 1:52:47 PM



#30
Cyclohexane
Concen: 1.626 ppbv m
RT: 7.13 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Tgt Ion	Ratio	Lower	Upper
84	100		
56	193.5	119.4	179.0#
41	0.0	79.4	119.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VL036286.D

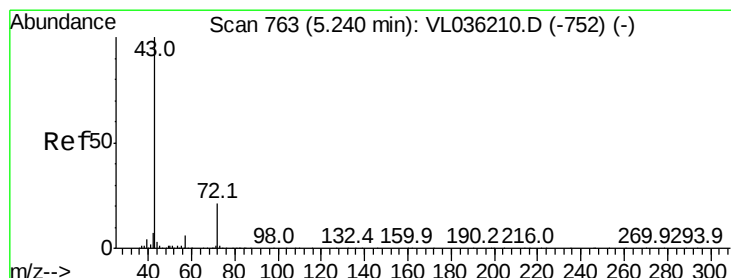
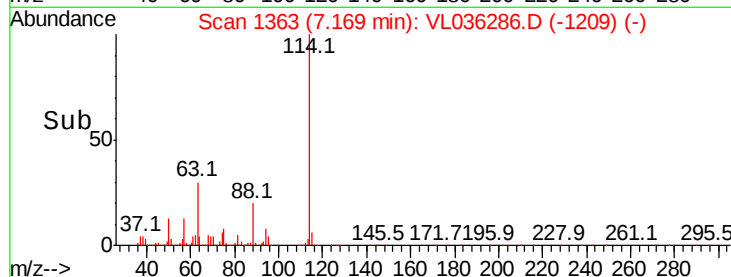
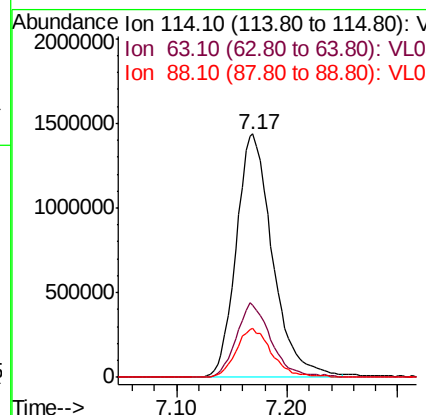
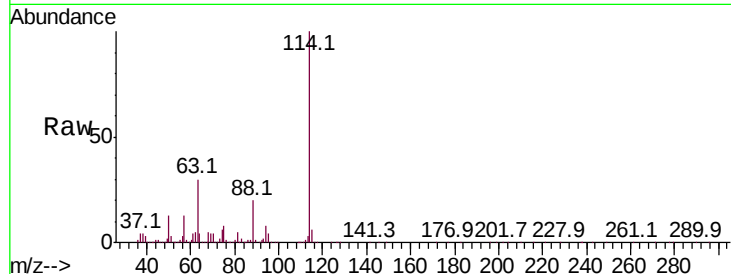
Acq: 29 Jan 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
SS-4

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.6	24.7	37.1
88	19.9	16.6	24.8

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#34

2-Butanone

Concen: 0.682 ppbv m

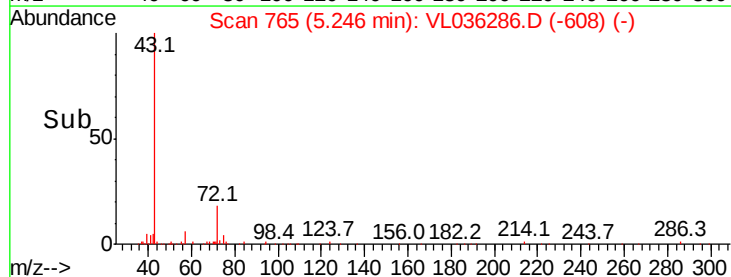
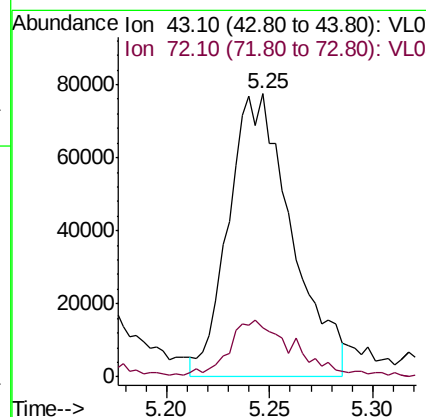
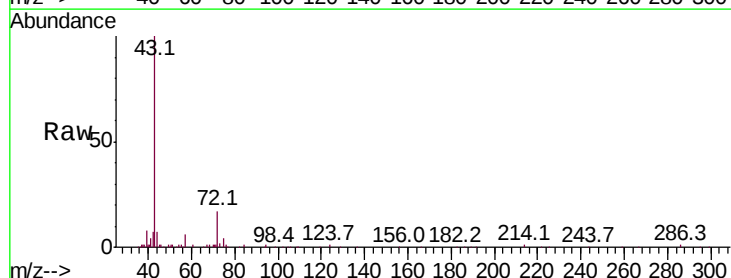
RT: 5.25 min Scan# 765

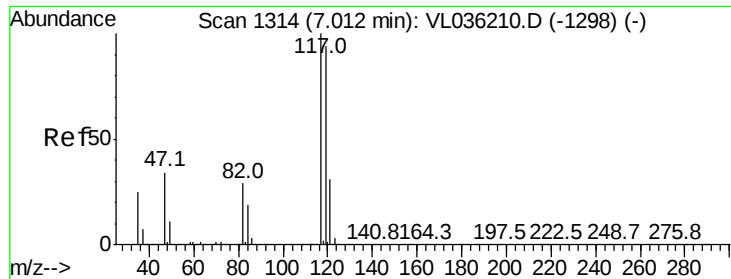
Delta R.T. 0.01 min

Lab File: VL036286.D

Acq: 29 Jan 2021 00:33

Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.1	24.1#





#35

Carbon Tetrachloride

Concen: 0.067 ppbv m

RT: 7.01 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VL036286.D

Acq: 29 Jan 2021 00:33

Instrument :

MSVOA_L

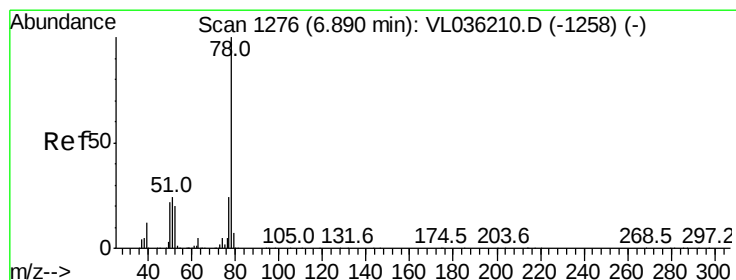
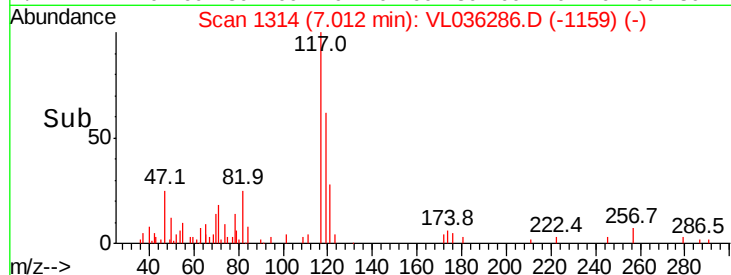
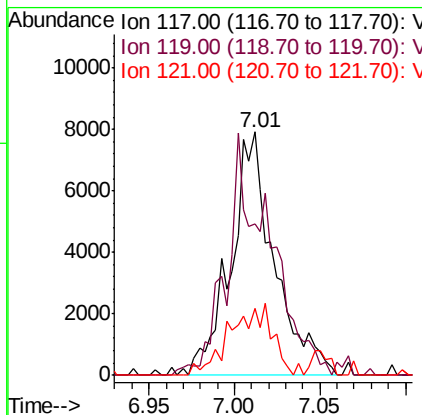
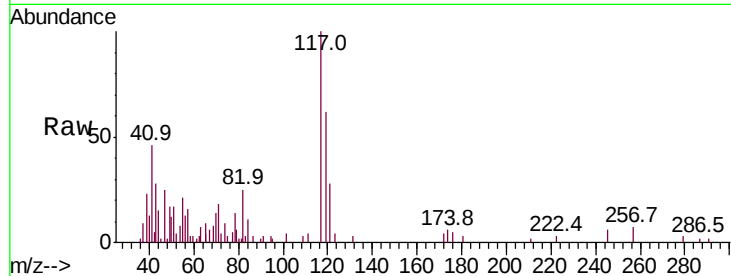
ClientSampled :

SS-4

Tot Ion	Ratio	Lower	Upper
117	100		
119	62.4	74.9	112.3#
121	27.7	25.0	37.6

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#36

Benzene

Concen: 2.446 ppbv

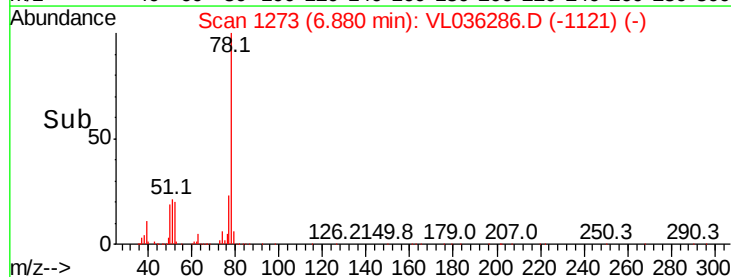
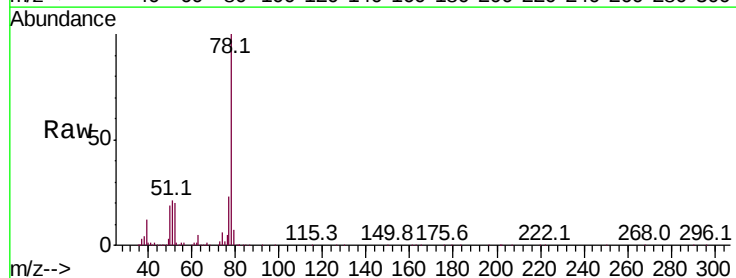
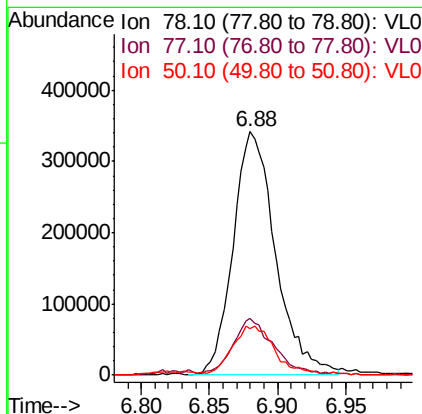
RT: 6.88 min Scan# 1273

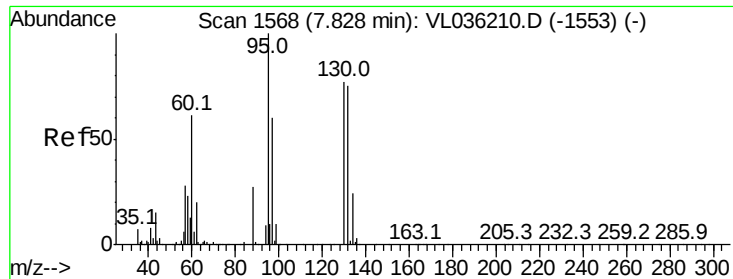
Delta R.T. -0.01 min

Lab File: VL036286.D

Acq: 29 Jan 2021 00:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.4	19.4	29.0
50	18.6	17.4	26.2





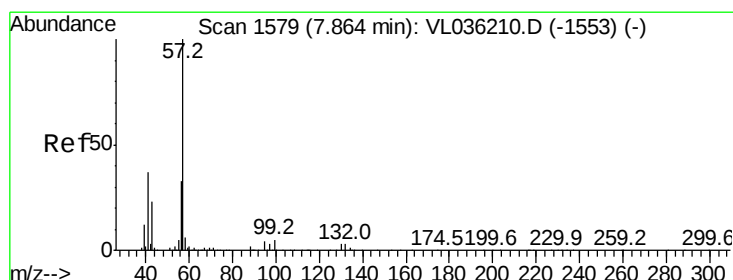
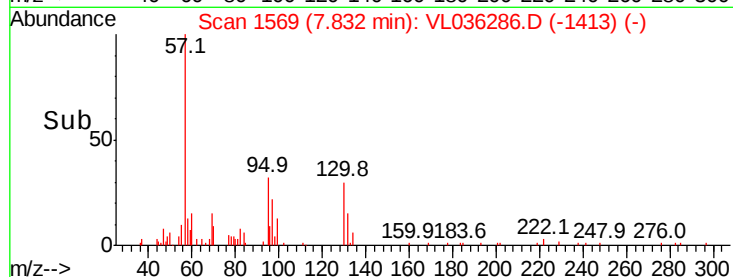
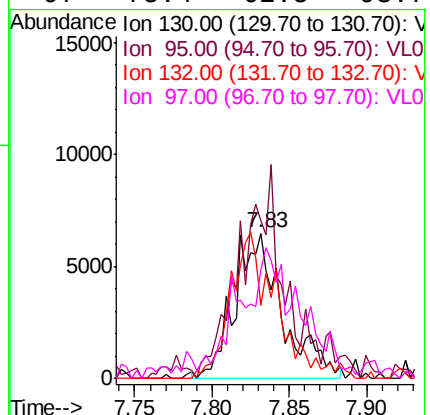
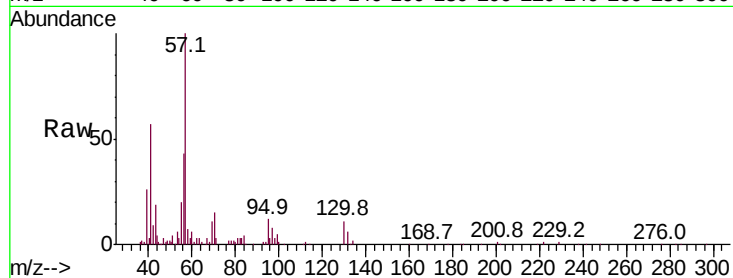
#38
 Trichloroethene
 Concen: 0.124 ppbv m
 RT: 7.83 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: VL036286.D
 Acq: 29 Jan 2021 00:33

Instrument :
 MSVOA_L
 ClientSampled :
 SS-4

Tot Ion	Ratio	Lower	Upper
130	100		
95	108.8	103.9	155.9
132	50.8	77.4	116.2#
97	75.4	62.5	93.7

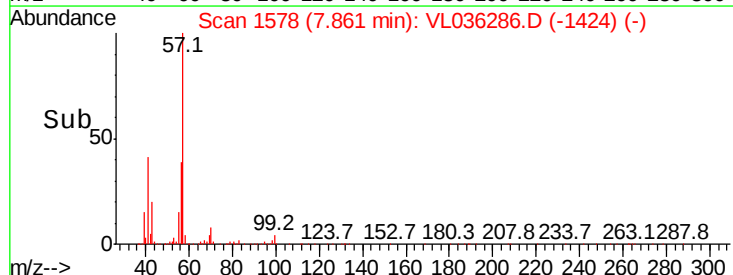
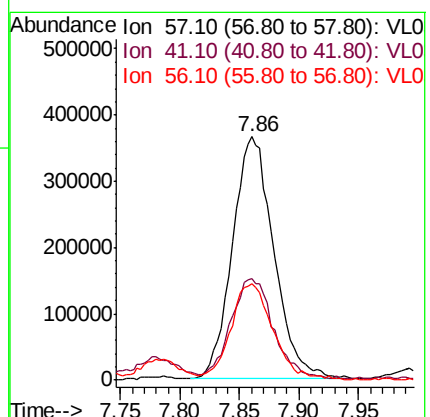
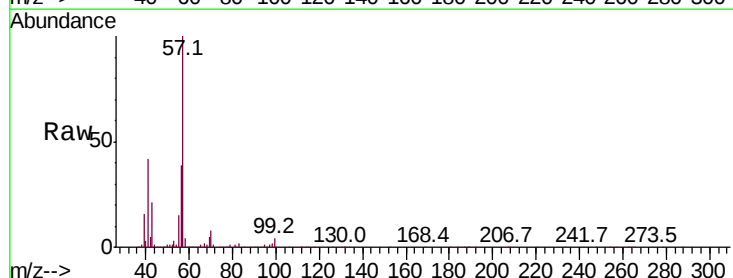
Manual Integrations
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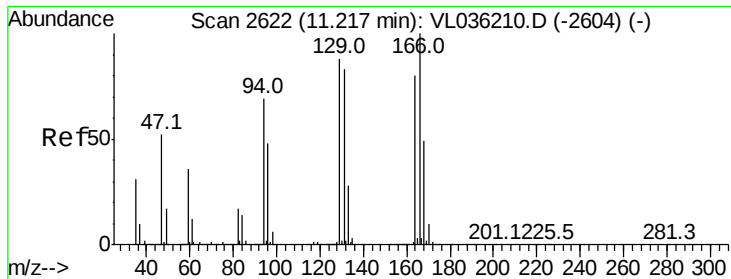
MMDadoda
 2/1/2021 1:52:47 PM



#44
 2,2,4-Trimethylpentane
 Concen: 1.598 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VL036286.D
 Acq: 29 Jan 2021 00:33

Tgt Ion	Ratio	Lower	Upper
57	100		
41	43.1	28.5	42.7#
56	40.3	25.5	38.3#





#52

Tetrachloroethene

Concen: 0.052 ppbv

RT: 11.21 min Scan# 2621

Delta R.T. -0.00 min

Lab File: VL036286.D

Acq: 29 Jan 2021 00:33

Instrument :

MSVOA_L

ClientSampled :

SS-4

Tot Ion:164 Resp: 5746

Ion Ratio Lower Upper

164 100

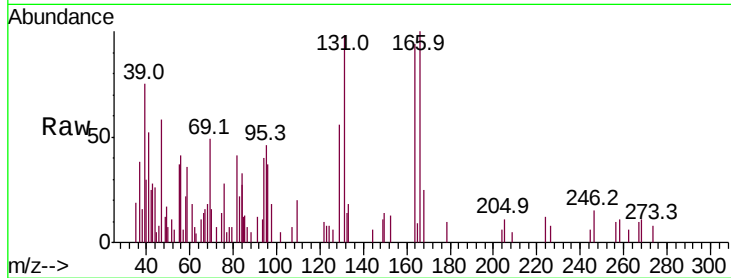
166 106.4 99.9 149.9

129 59.9 88.2 132.4#

131 104.3 83.0 124.6

Manual Integrations
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2/1/2021 1:52:47 PM

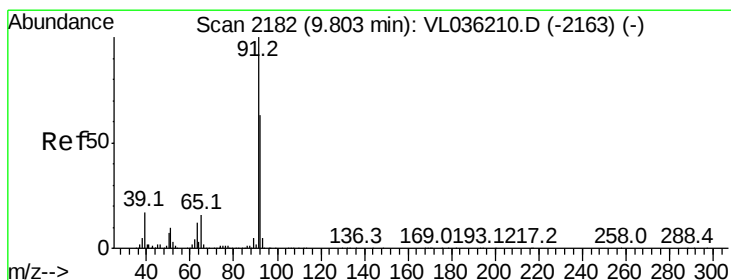
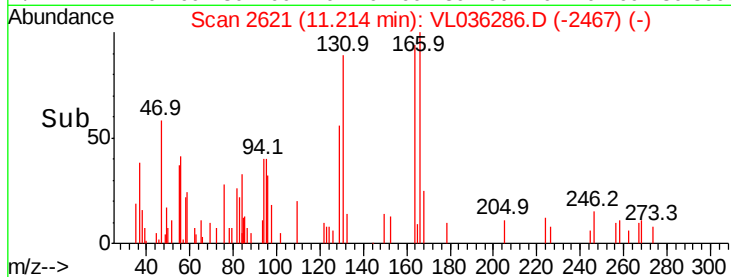
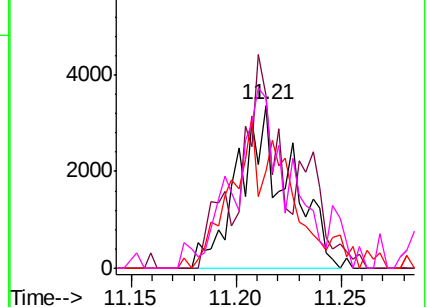


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 20.080 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL036286.D

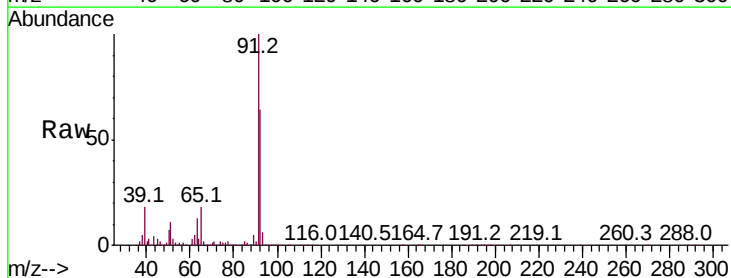
Acq: 29 Jan 2021 00:33

Tgt Ion: 91 Resp: 6755602

Ion Ratio Lower Upper

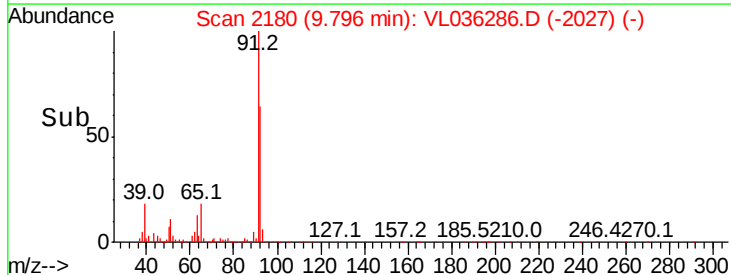
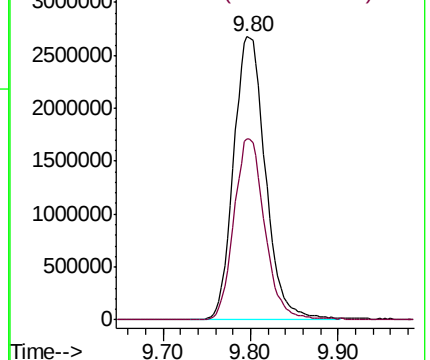
91 100

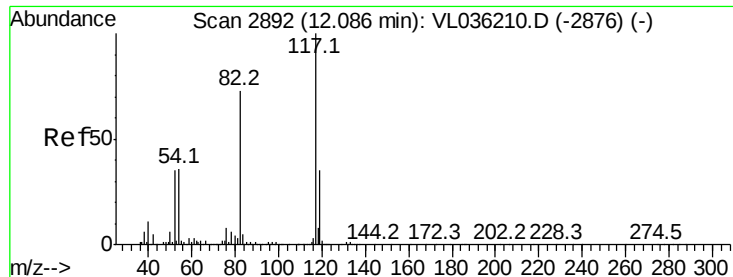
92 62.6 48.5 72.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





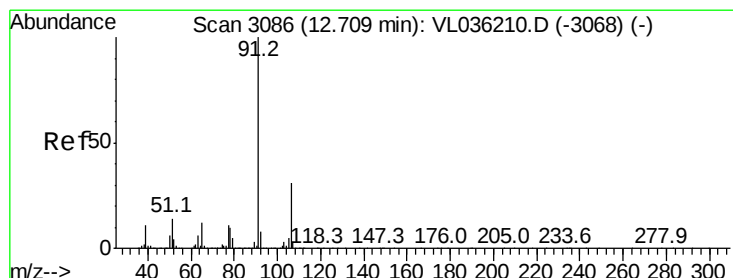
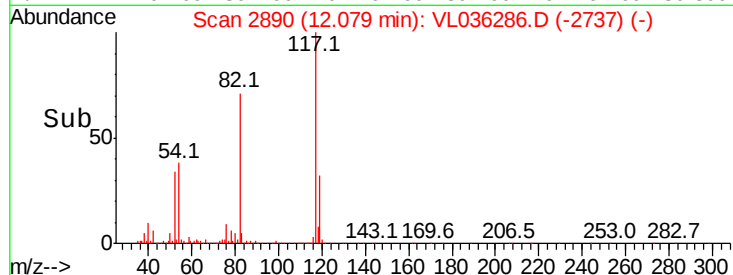
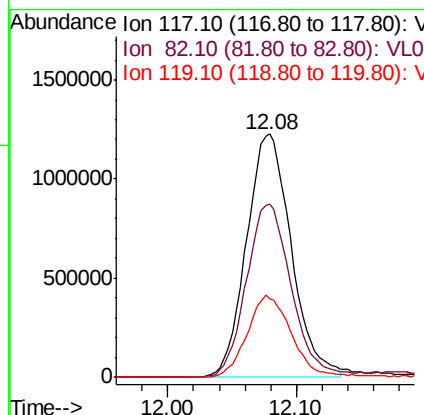
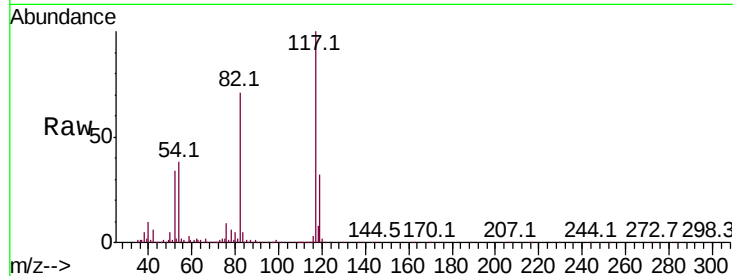
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Instrument :
MSVOA_L
ClientSampleId :
SS-4

Tot Ion	Ratio	Lower	Upper
117	100		
82	72.3	59.7	89.5
119	33.9	28.6	43.0

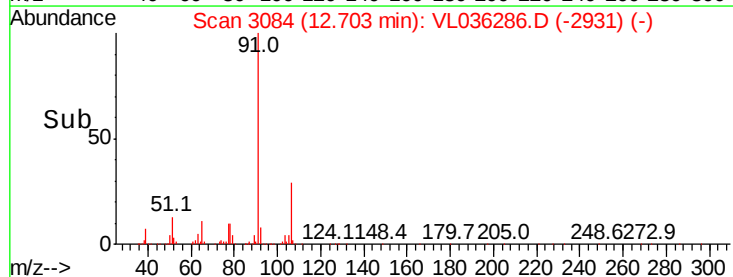
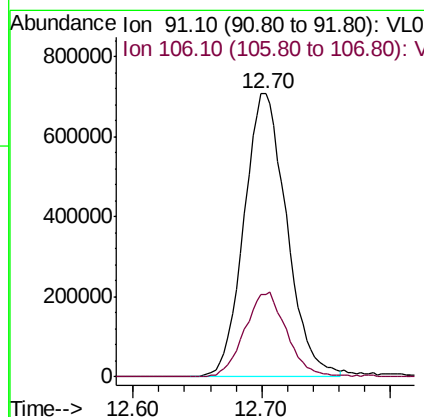
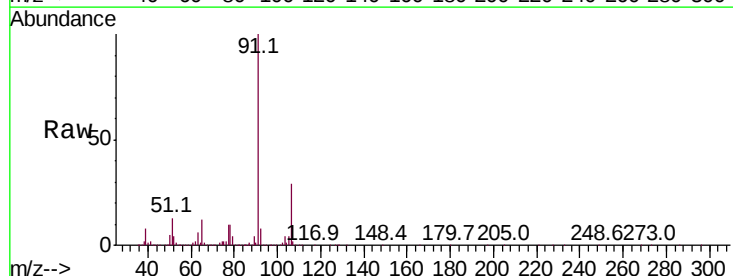
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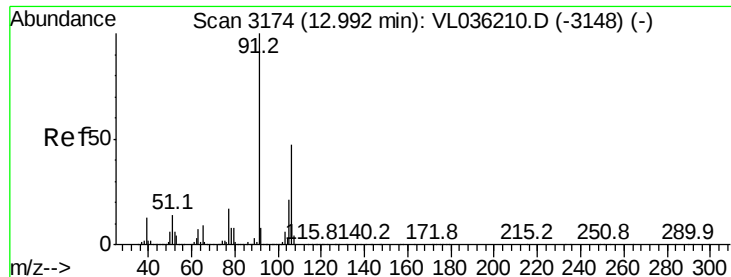
MMDadoda
2/1/2021 1:52:47 PM



#58
Ethyl Benzene
Concen: 3.701 ppbv
RT: 12.70 min Scan# 3084
Delta R.T. -0.01 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.1	24.8	37.2





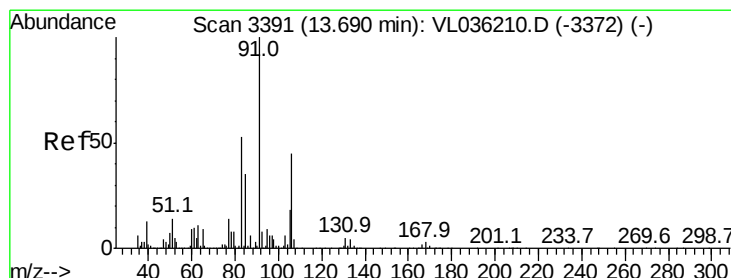
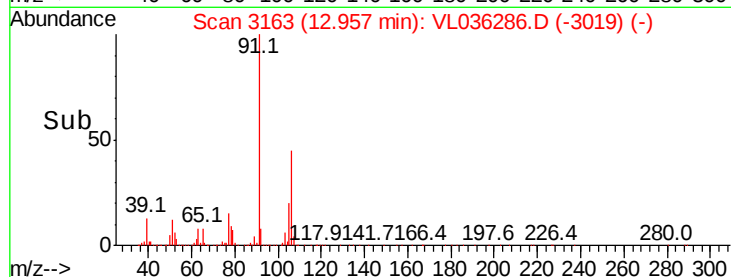
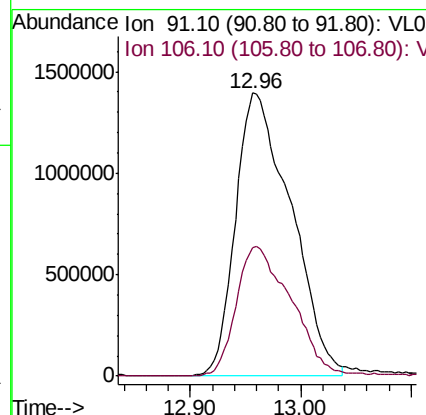
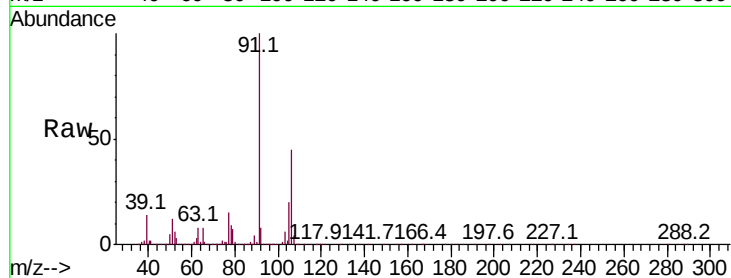
#59
m/p-Xylene
Concen: 12.773 ppbv
RT: 12.96 min Scan# 3163
Delta R.T. -0.04 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Instrument :
MSVOA_L
ClientSampled :
SS-4

Tot Ion: 91 Resp: 4825862
Ion Ratio Lower Upper
91 100
106 45.8 34.6 51.8

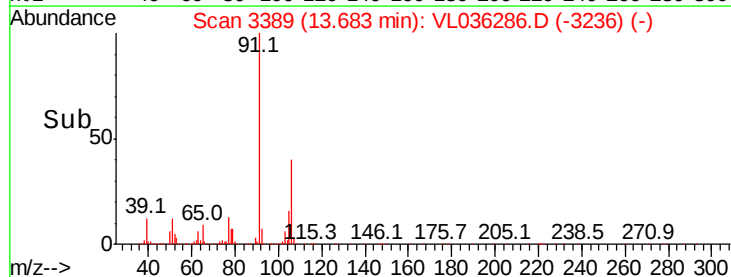
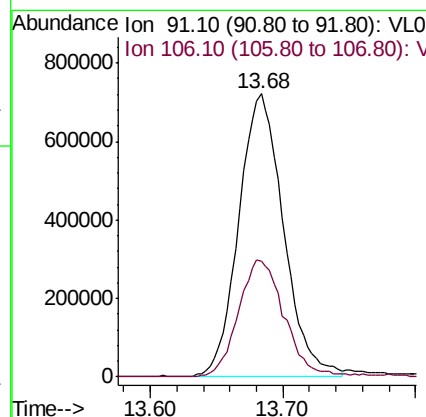
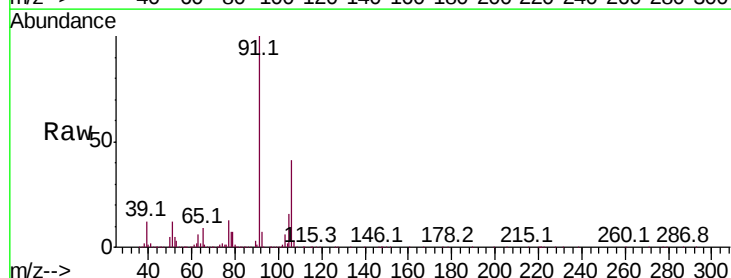
Manual Integrations
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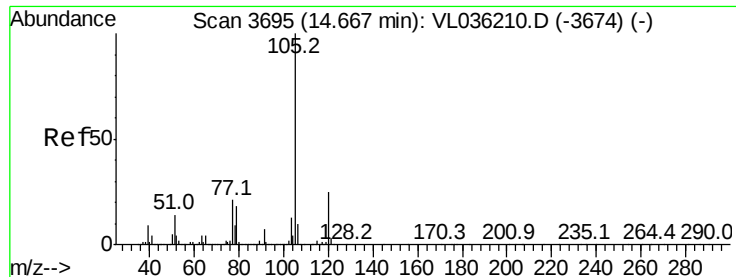
MMDadoda
2/1/2021 1:52:47 PM



#60
o-Xylene
Concen: 4.606 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. -0.01 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Tgt Ion: 91 Resp: 1677641
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.8





#62

Isopropylbenzene

Concen: 0.137 ppbv

RT: 14.66 min Scan# 3693

Delta R.T. -0.01 min

Lab File: VL036286.D

Acq: 29 Jan 2021 00:33

Instrument :

MSVOA_L

ClientSampled :

SS-4

Tot Ion:105 Resp: 74346

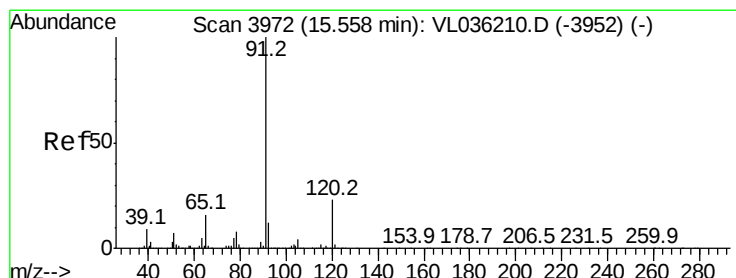
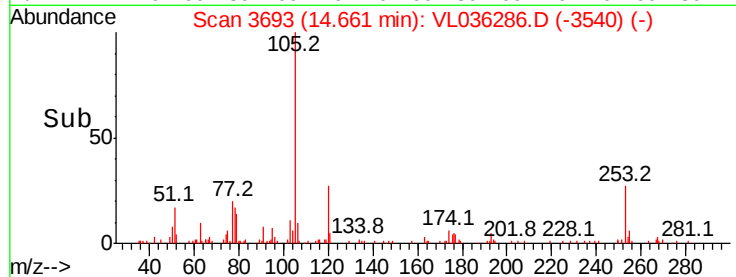
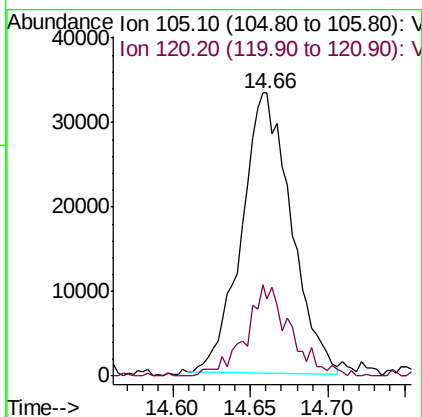
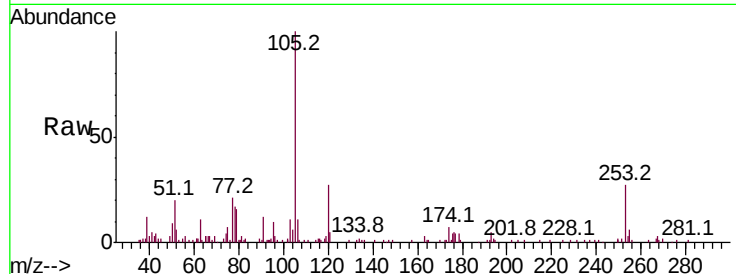
Ion Ratio Lower Upper

105 100

120 29.2 20.3 30.5

Manual Integrations
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#64

n-propylbenzene

Concen: 0.476 ppbv

RT: 15.55 min Scan# 3970

Delta R.T. -0.01 min

Lab File: VL036286.D

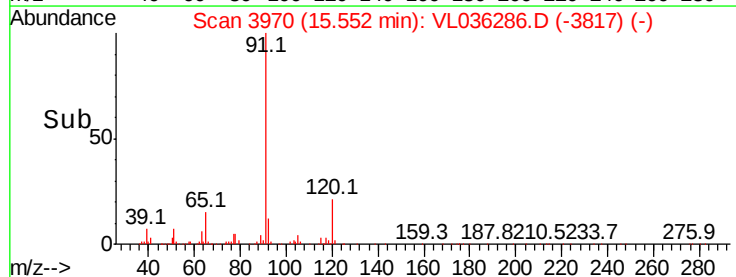
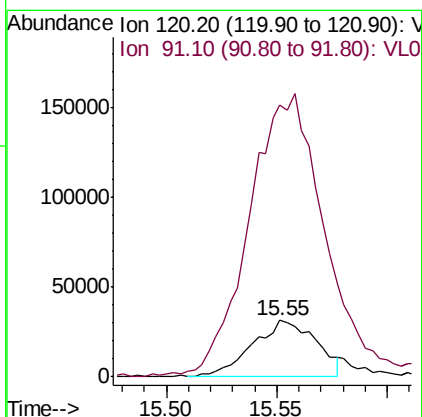
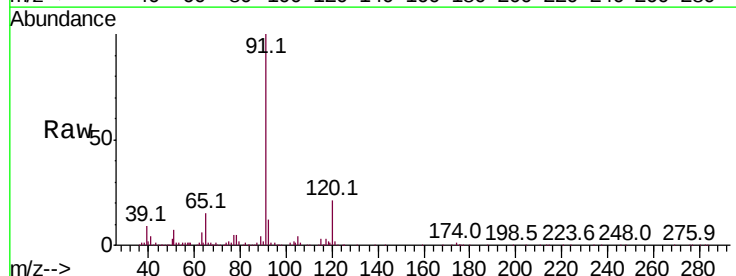
Acq: 29 Jan 2021 00:33

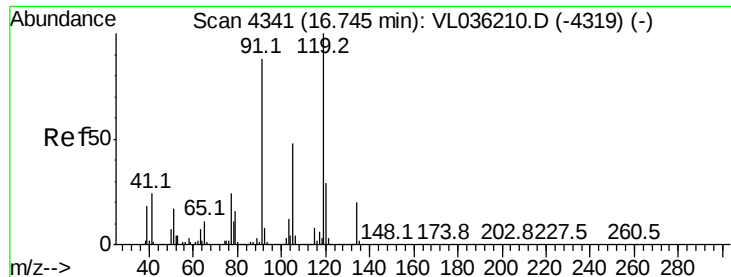
Tgt Ion:120 Resp: 63382

Ion Ratio Lower Upper

120 100

91 609.1 391.8 587.6#





#65

tert-Butylbenzene

Concen: 0.311 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. 0.01 min

Lab File: VL036286.D

Acq: 29 Jan 2021 00:33

Instrument :

MSVOA_L

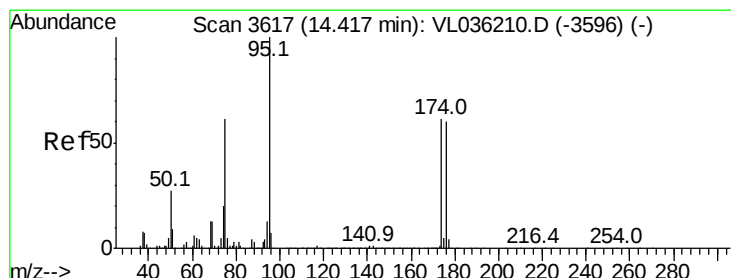
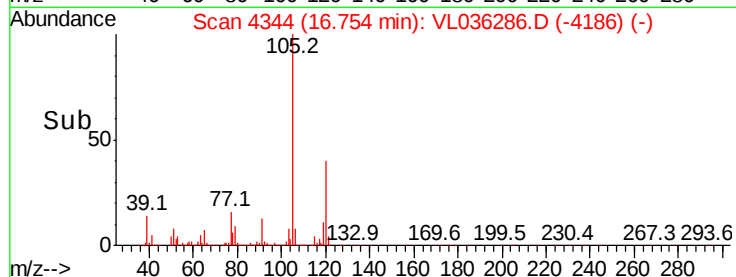
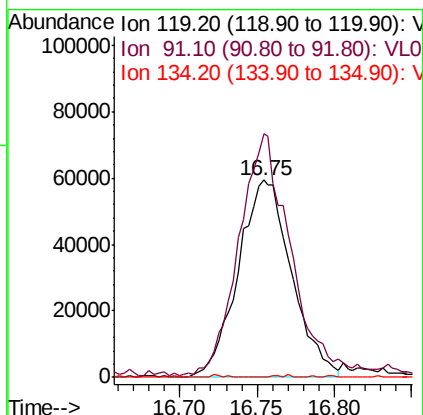
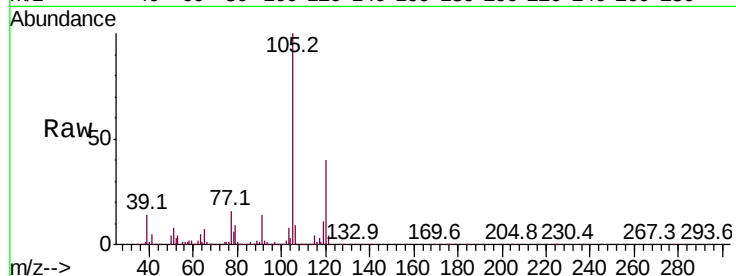
ClientSampled :

SS-4

Tot Ion:	119	Resp:	142525
Ion Ratio	Lower	Upper	
119	100		
91	122.1	71.0	106.6#
134	0.0	15.8	23.6#

Manual Integrations
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2/1/2021 1:52:47 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 9.892 ppbv

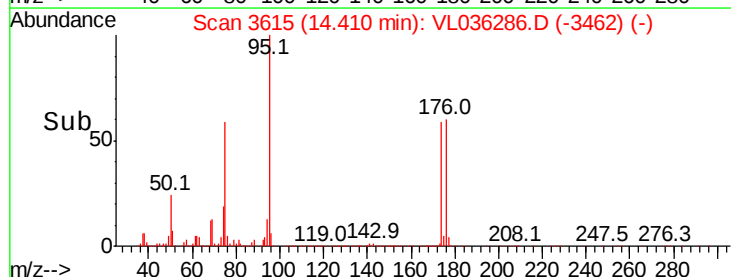
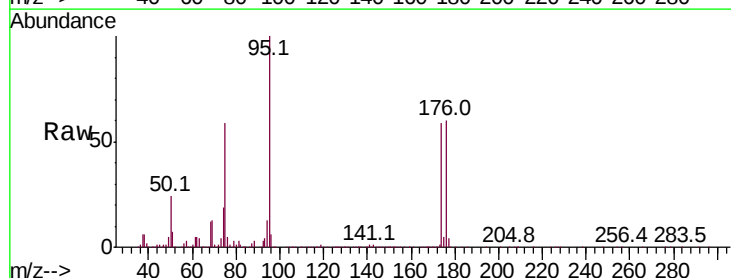
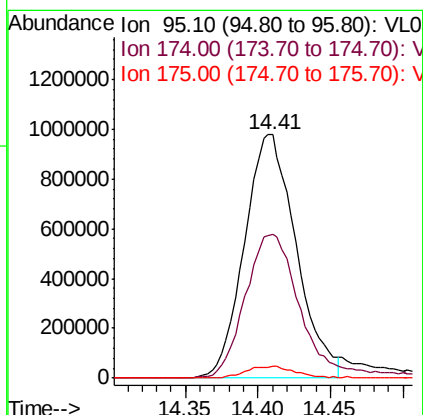
RT: 14.41 min Scan# 3615

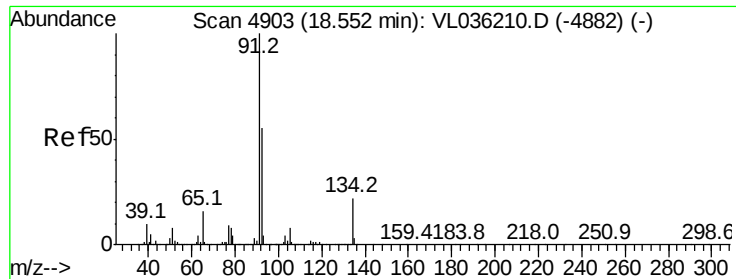
Delta R.T. -0.01 min

Lab File: VL036286.D

Acq: 29 Jan 2021 00:33

Tgt Ion:	95	Resp:	2426156
Ion Ratio	Lower	Upper	
95	100		
174	66.0	49.4	74.0
175	5.0	3.8	5.8





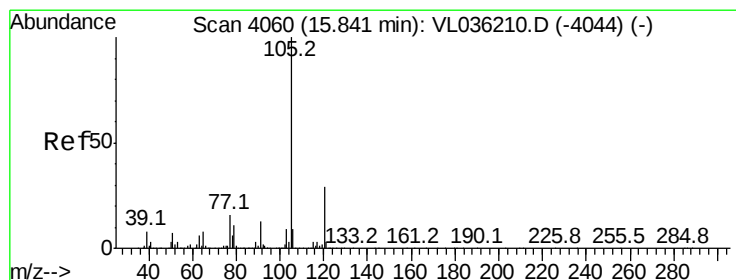
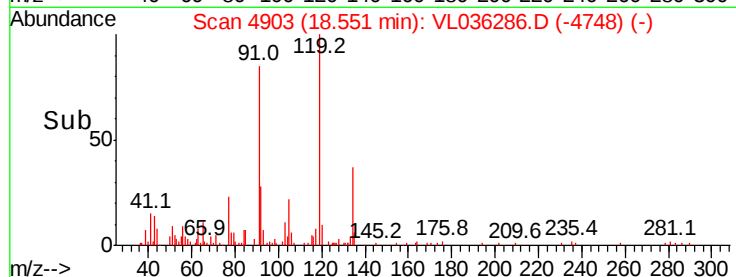
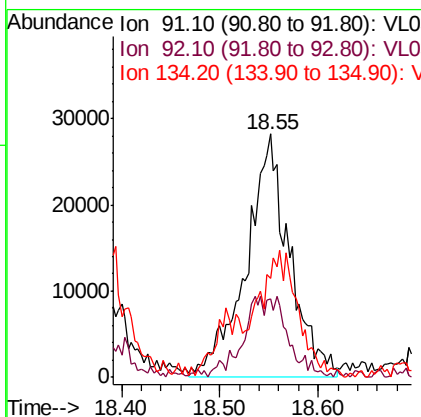
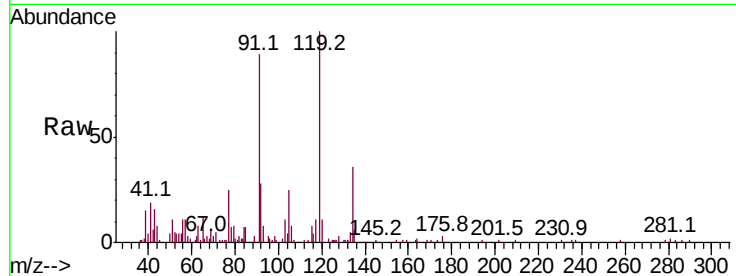
#70
n-Butylbenzene
Concen: 0.150 ppbv m
RT: 18.55 min Scan# 4903
Delta R.T. -0.00 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Instrument :
MSVOA_L
ClientSampled :
SS-4

Tot Ion	Ratio	Resp	Lower	Upper
91	100	86357		
92	35.2	44.0	66.0#	
134	0.0	17.0	25.4#	

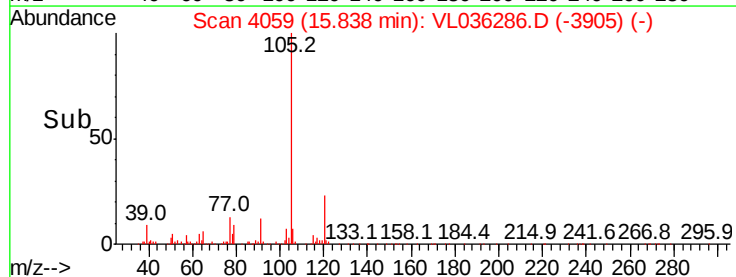
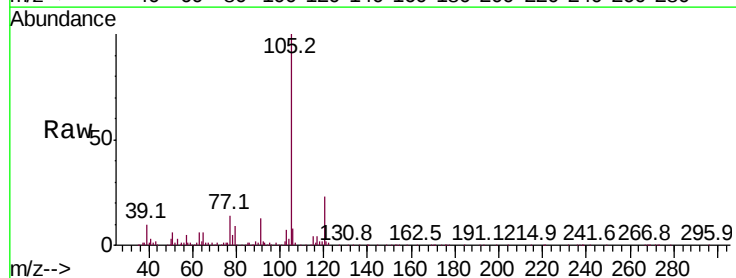
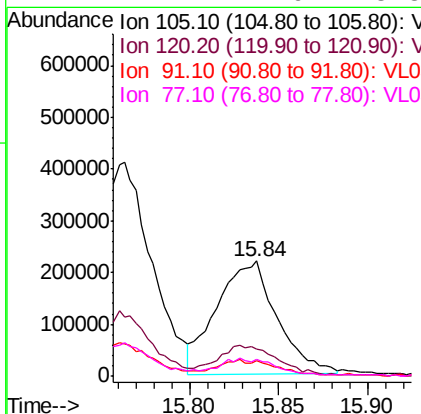
Manual Integrations
APPROVED

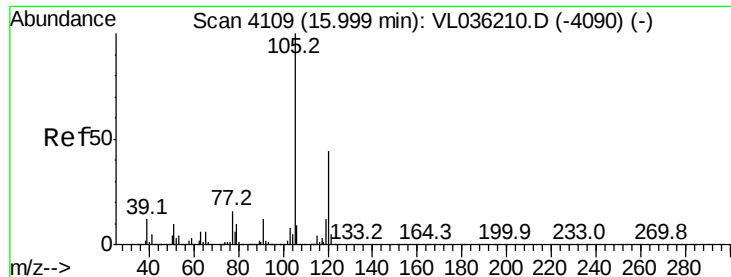
MMDadoda
2/1/2021 1:52:47 PM



#72
4-Ethyltoluene
Concen: 1.259 ppbv
RT: 15.84 min Scan# 4059
Delta R.T. -0.00 min
Lab File: VL036286.D
Acq: 29 Jan 2021 00:33

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	517620		
120	28.9	23.7	35.5	
91	15.1	11.9	17.9	
77	14.7	12.6	18.8	





#73

1,3,5-Trimethylbenzene

Concen: 0.852 ppbv

RT: 15.99 min Scan# 4106

Delta R.T. -0.01 min

Lab File: VL036286.D

Acq: 29 Jan 2021 00:33

Instrument :

MSVOA_L

ClientSampled :

SS-4

Tot Ion:105 Resp: 333860

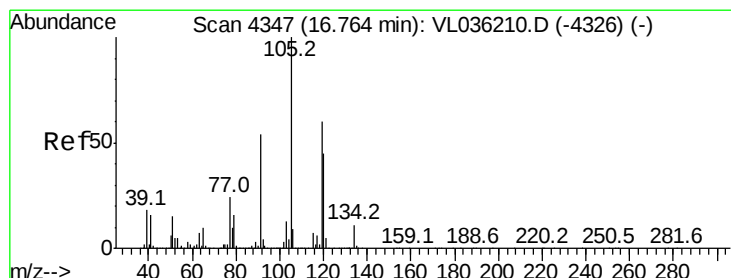
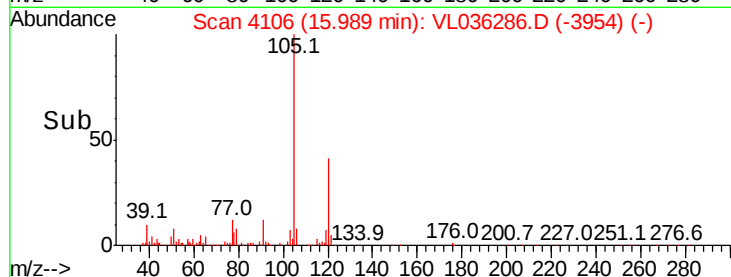
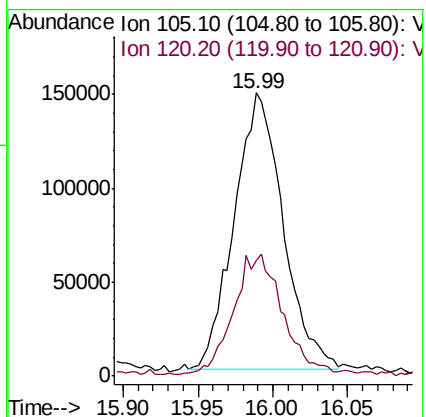
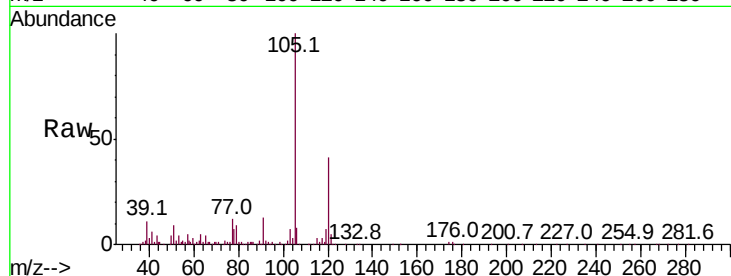
Ion Ratio Lower Upper

105 100

120 40.9 35.5 53.3

Manual Integrations
APPROVED

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2/1/2021 1:52:47 PM



#74

1,2,4-Trimethylbenzene

Concen: 3.350 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. -0.01 min

Lab File: VL036286.D

Acq: 29 Jan 2021 00:33

Tgt Ion:105 Resp: 1346286

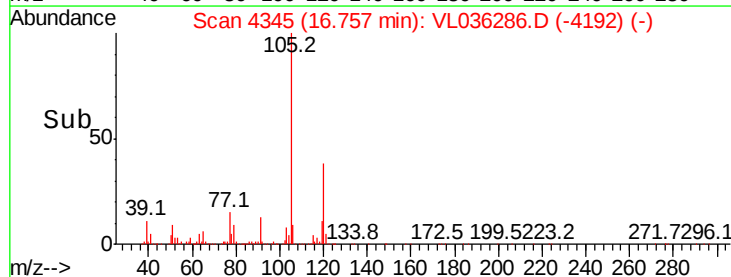
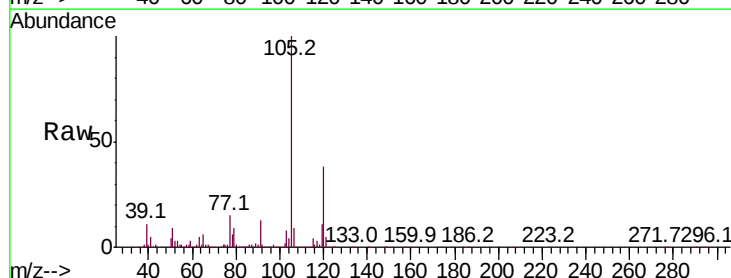
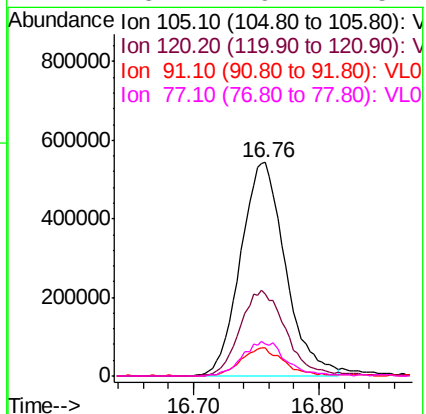
Ion Ratio Lower Upper

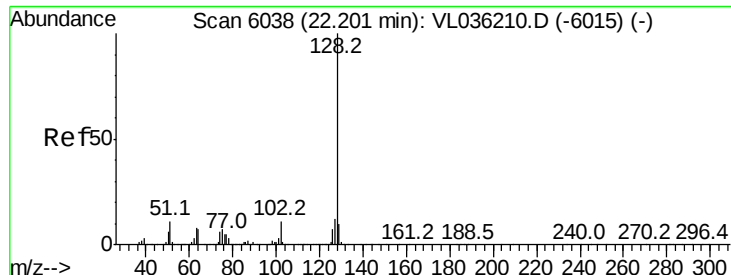
105 100

120 38.4 36.2 54.2

91 13.1 43.3 64.9#

77 15.1 19.1 28.7#





#79

Naphthalene

Concen: 0.149 ppbv m

RT: 22.20 min Scan# 6039

Delta R.T. 0.00 min

Lab File: VL036286.D

Acq: 29 Jan 2021 00:33

Instrument :

MSVOA_L

ClientSampleId :

SS-4

Tot Ion:	128	Resp:	35024
Ion Ratio	Lower	Upper	
128	100		
127	8.7	9.9	14.9#
129	11.7	8.4	12.6

Manual Integrations
APPROVED

MMDadoda
2/1/2021 1:52:47 PM

