

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036713.D
 Acq On : 7 Apr 2021 1:05
 Operator : SY/AP
 Sample : M1877-10 2X
 Misc : 400mL/MSVOA L
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-7(2021)

Manual Integrations
 APPROVED

MMDadoda
 4/12/2021 11:11:33 AM

Quant Time: Apr 11 12:05:28 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1268320	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3160629	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2852556	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2263335	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	20936	0.101	ppbv	99
3) Chlorodifluoromethane	2.98	51	29734m	0.125	ppbv	
4) Chloromethane	3.14	50	14151m	0.169	ppbv	
9) Propene	3.01	41	187333	2.480	ppbv	93
10) Heptane	8.12	43	77552	0.403	ppbv #	28
11) Trichlorofluoromethane	3.95	101	28294	0.134	ppbv #	70
13) Ethanol	3.62	45	13259968	1473.967	ppbv	95
15) Acetone	3.84	43	8464337m	67.806	ppbv	
17) tert-Butyl alcohol	4.32	59	204138	1.879	ppbv #	72
19) Isopropyl Alcohol	3.99	45	4737887	68.995	ppbv #	95
20) Methylene Chloride	4.34	84	280984	4.808	ppbv	93
26) Hexane	5.68	57	609058	4.422	ppbv #	47
34) 2-Butanone	5.24	43	70016	0.454	ppbv #	43
36) Benzene	6.89	78	166023	0.570	ppbv #	93
44) 2,2,4-Trimethylpentane	7.87	57	2408042	4.694	ppbv	98
53) Toluene	9.80	91	171811	0.553	ppbv	98
58) Ethyl Benzene	12.72	91	54704	0.132	ppbv	98
59) m/p-Xylene	12.97	91	96715m	0.267	ppbv	
60) o-Xylene	13.70	91	52564m	0.150	ppbv	
61) Styrene	13.53	104	66865m	0.380	ppbv	
64) n-propylbenzene	15.56	120	14115	0.122	ppbv	79
69) p-Isopropyltoluene	17.66	119	57757	0.128	ppbv #	81
70) n-Butylbenzene	18.56	91	48313m	0.103	ppbv	
72) 4-Ethyltoluene	15.84	105	82826m	0.216	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	88742m	0.248	ppbv	
74) 1,2,4-Trimethylbenzene	16.77	105	232667	0.607	ppbv #	67

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

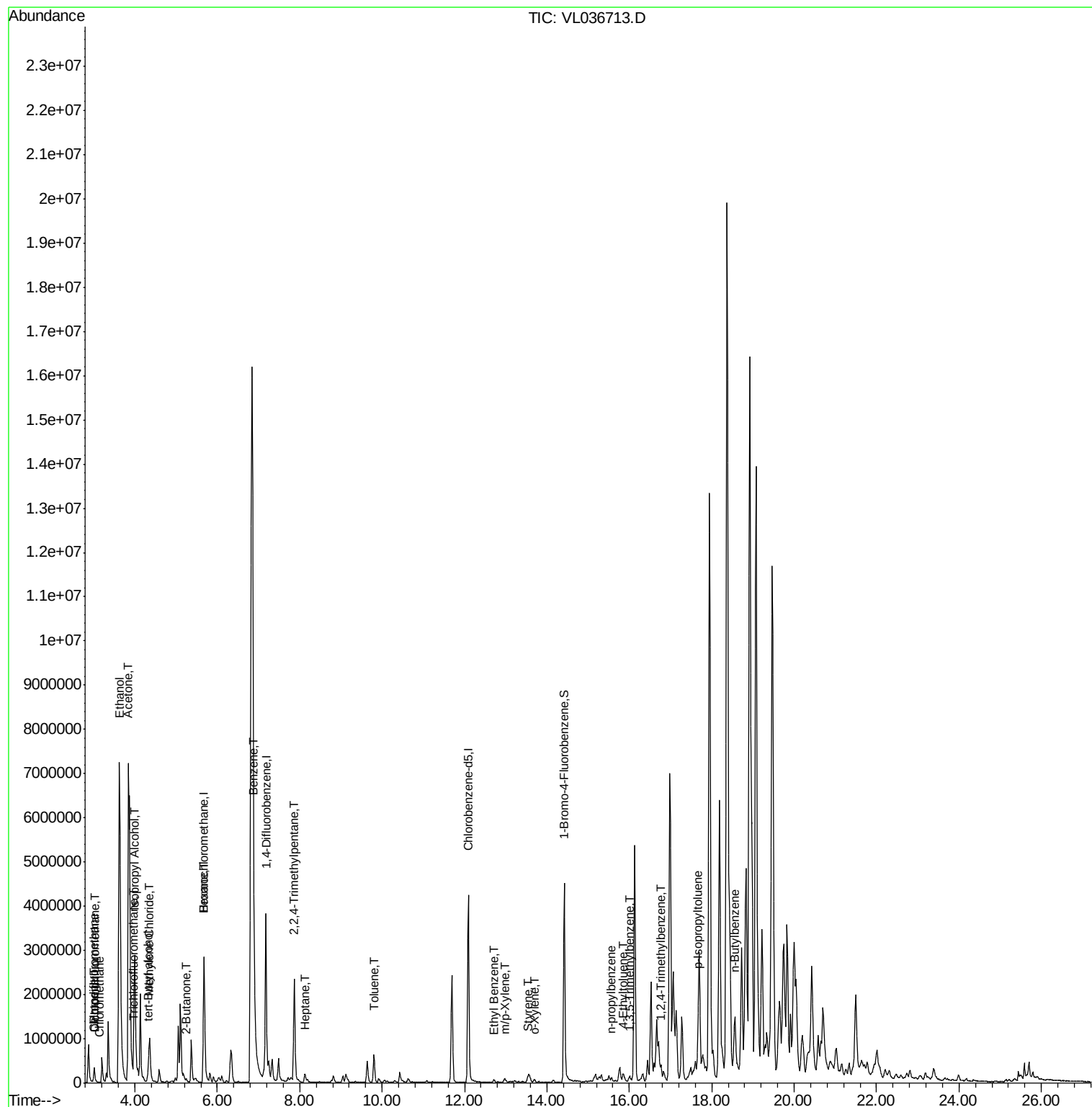
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040621\
Data File : VL036713.D
Acq On : 7 Apr 2021 1:05
Operator : SY/AP
Sample : M1877-10 2X
Misc : 400mL/MSVOA L
ALS Vial : 15 Sample Multiplier: 1

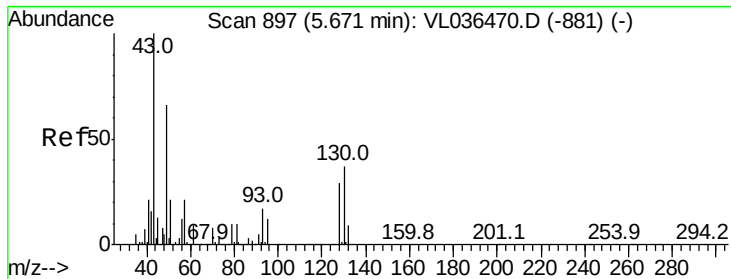
Instrument :
MSVOA_L
ClientSampleId :
UP-SG-7(2021)

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4/12/2021 11:11:33 AM

Quant Time: Apr 11 12:05:28 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-7(2021)

Tot Ion: 49 Resp: 1268320

Ion Ratio Lower Upper

49 100

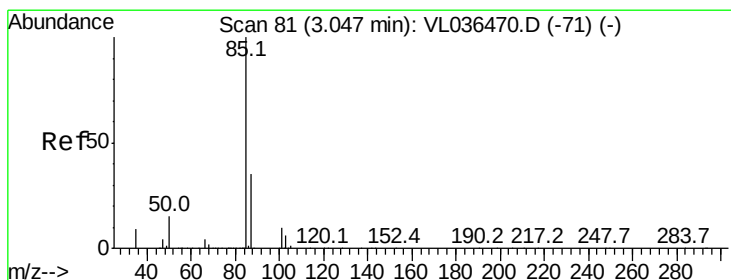
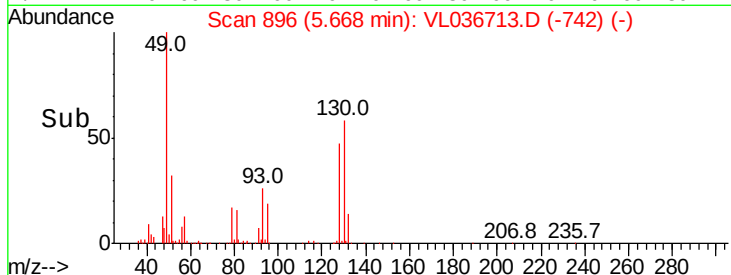
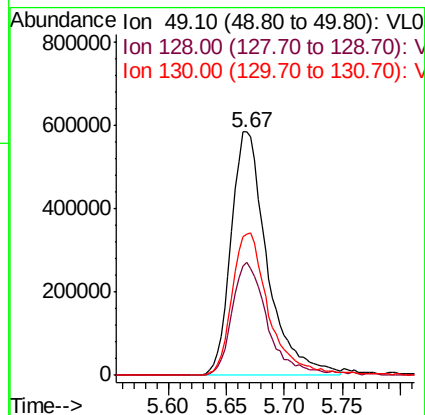
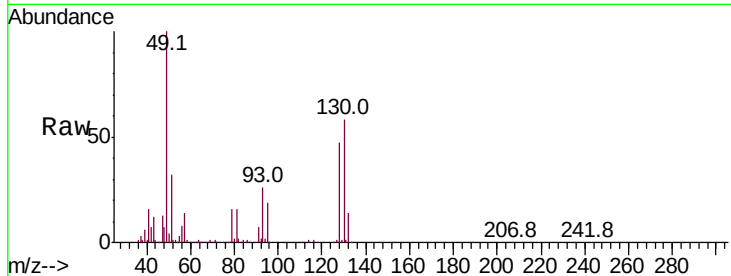
128 46.4 23.5 70.6

130 60.1 29.1 87.4

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#2

Dichlorodifluoromethane

Concen: 0.101 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL036713.D

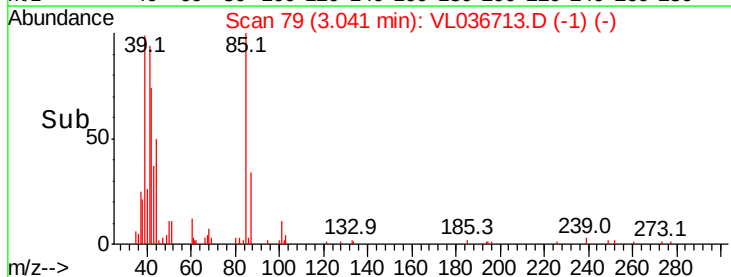
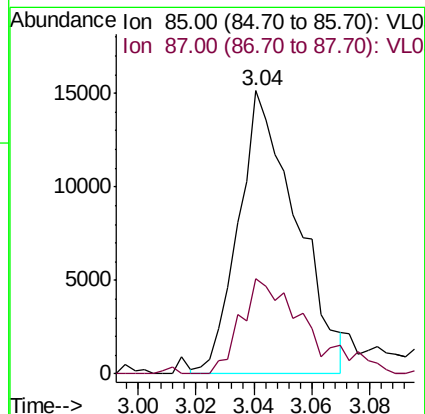
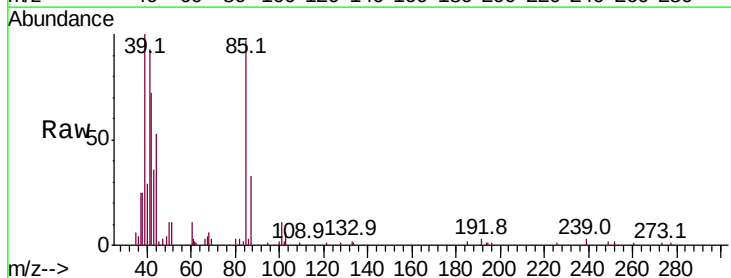
Acq: 7 Apr 2021 1:05

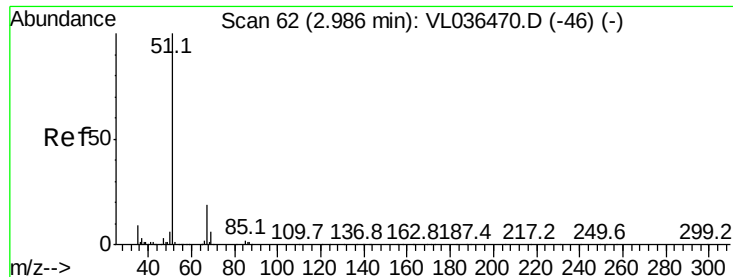
Tgt Ion: 85 Resp: 20936

Ion Ratio Lower Upper

85 100

87 34.1 27.8 41.8





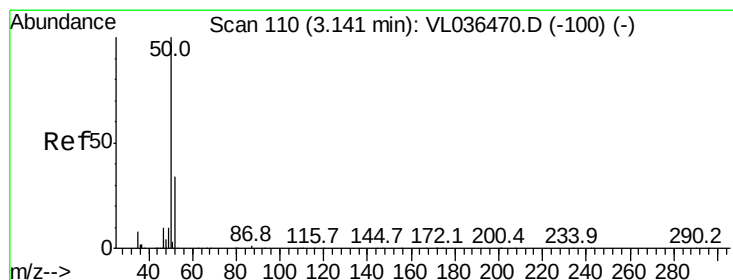
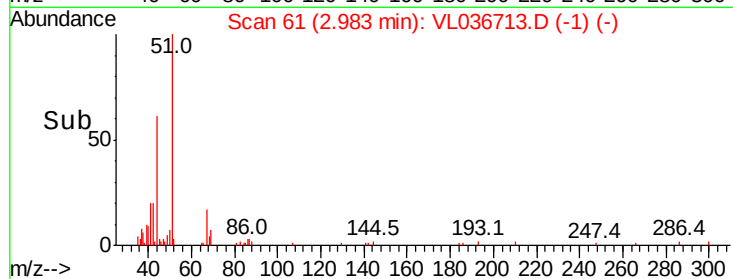
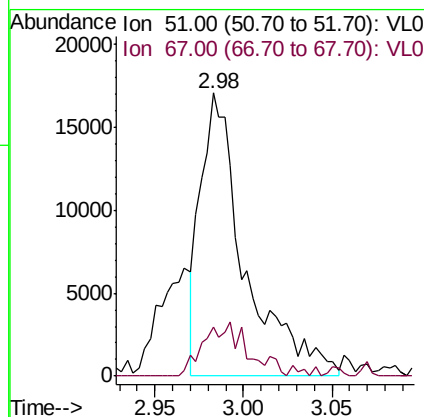
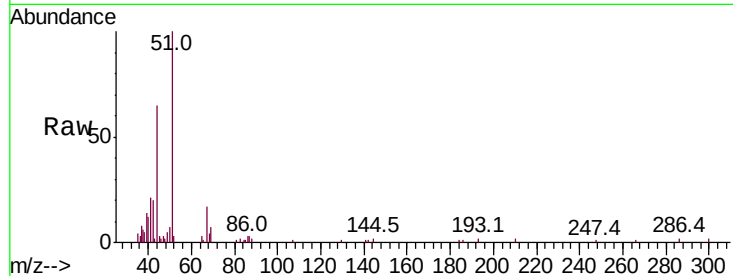
#3
Chlorodifluoromethane
Concen: 0.125 ppbv m
RT: 2.98 min Scan# 61
Delta R.T. -0.00 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-7(2021)

Tot Ion	Ratio	Resp	Lower	Upper
51	100	29734		
67	19.2	14.7	22.1	

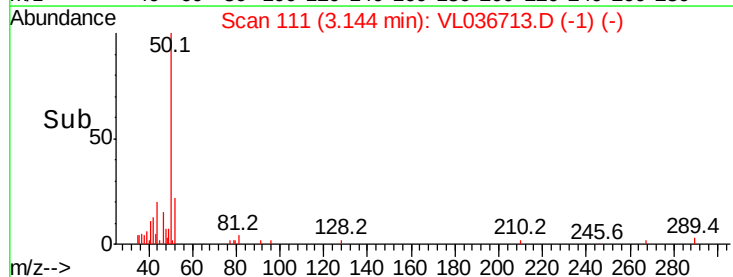
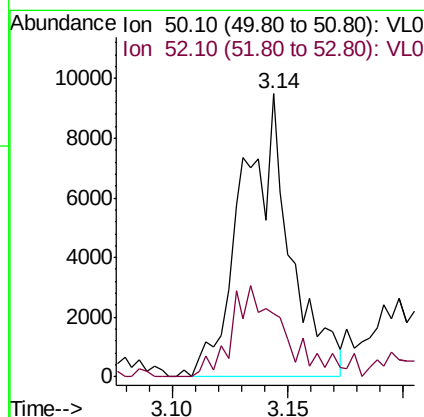
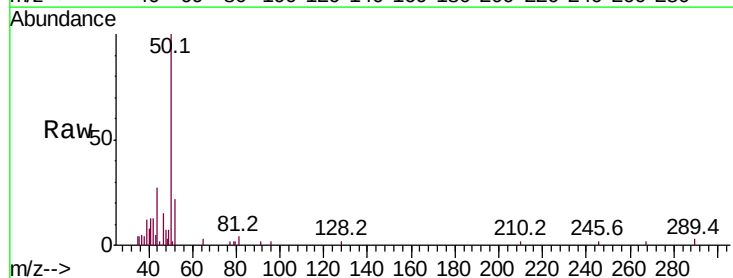
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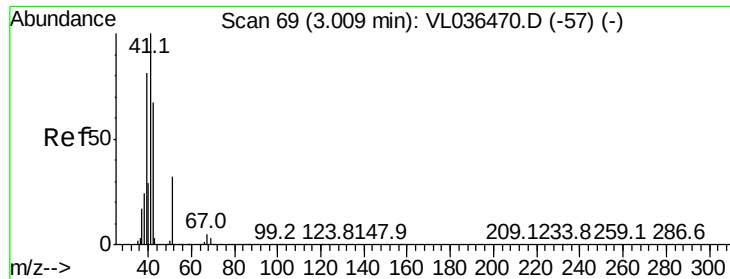
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#4
Chloromethane
Concen: 0.169 ppbv m
RT: 3.14 min Scan# 111
Delta R.T. 0.00 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Tgt Ion	Ratio	Resp	Lower	Upper
50	100	14151		
52	22.4	27.0	40.6	





#9

Propene

Concen: 2.480 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-7(2021)

Tot Ion: 41 Resp: 187333

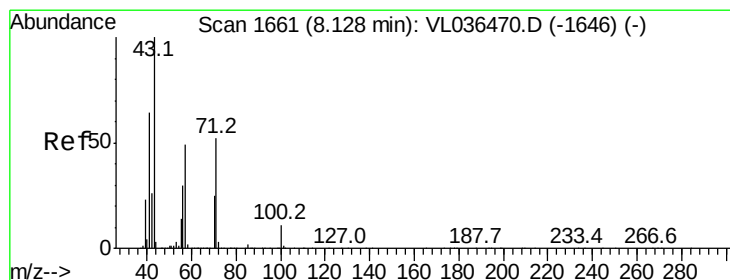
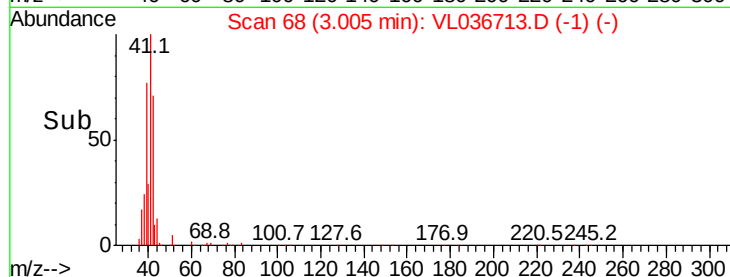
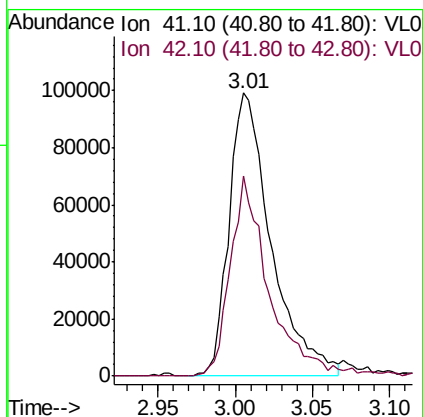
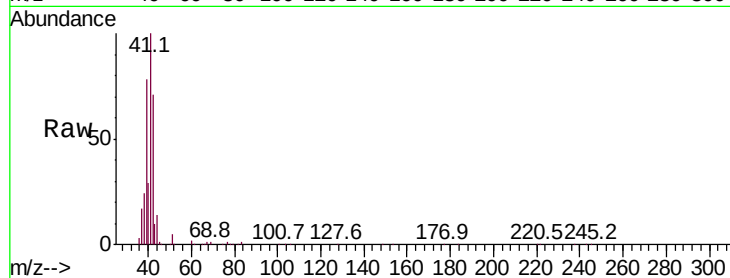
Ion Ratio Lower Upper

41 100

42 65.6 57.0 85.4

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#10

Heptane

Concen: 0.403 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL036713.D

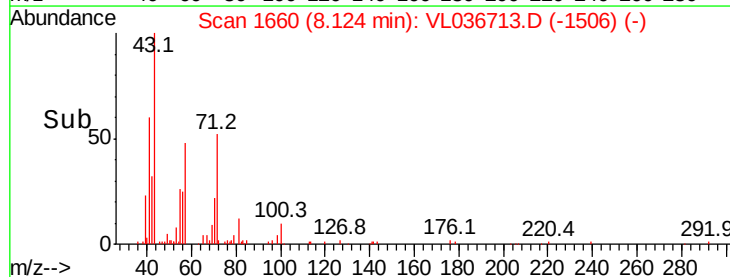
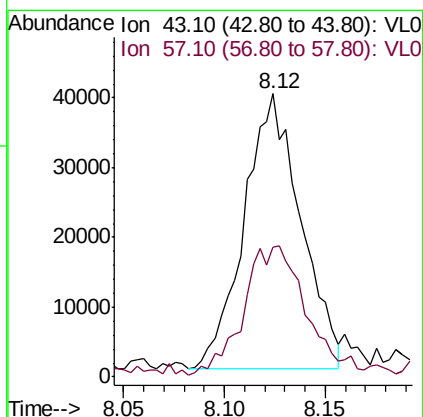
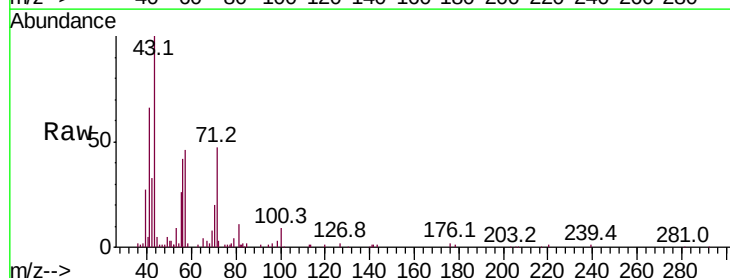
Acq: 7 Apr 2021 1:05

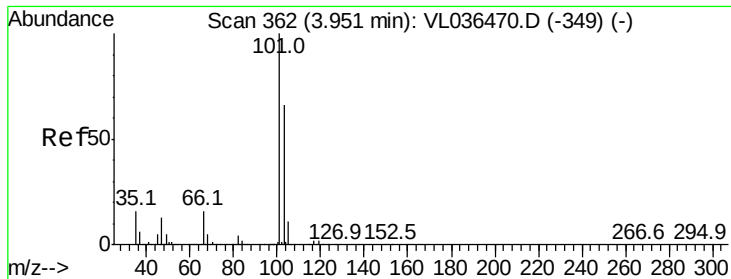
Tgt Ion: 43 Resp: 77552

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.6#





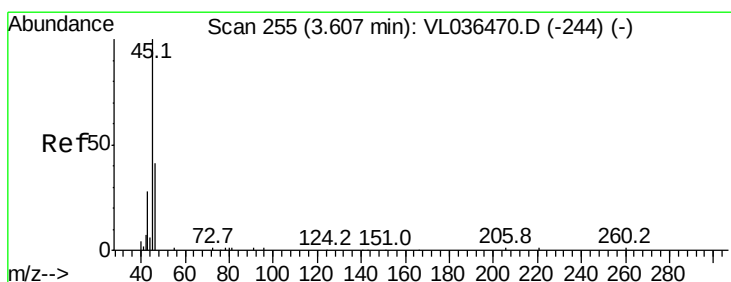
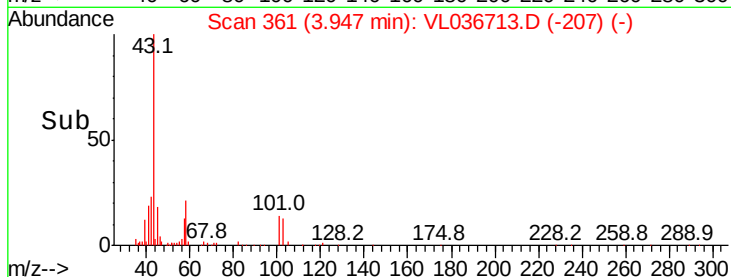
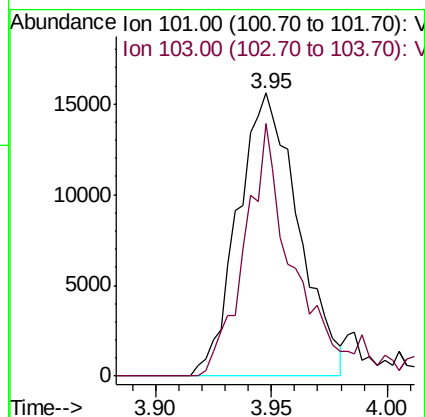
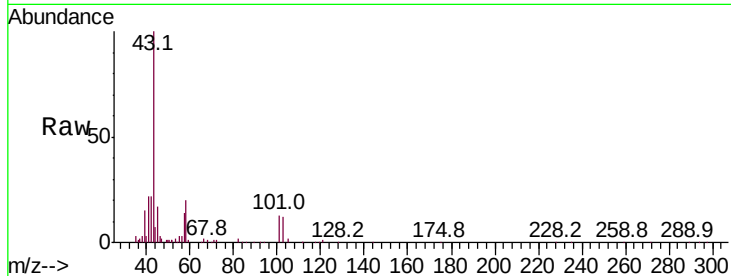
#11
Trichlorofluoromethane
Concen: 0.134 ppbv
RT: 3.95 min Scan# 361
Delta R.T. -0.00 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-7(2021)

Tot Ion:101 Resp: 28294
Ion Ratio Lower Upper
101 100
103 89.3 52.5 78.7#

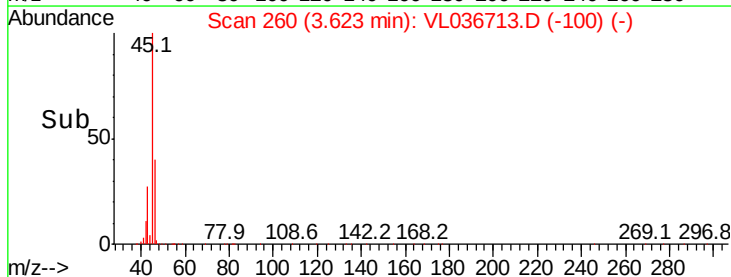
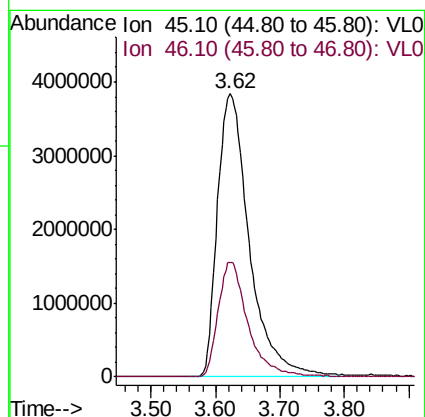
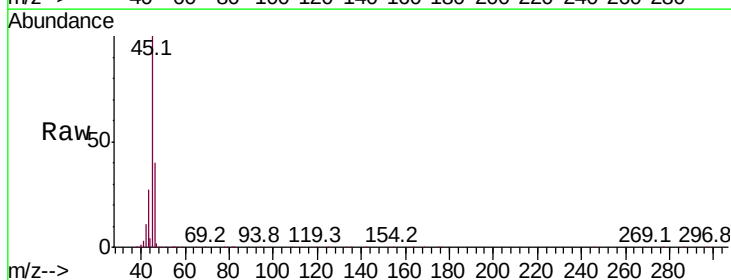
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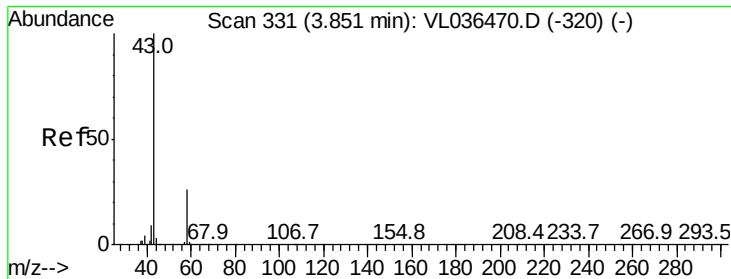
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#13
Ethanol
Concen: 1473.967 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.02 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Tgt Ion: 45 Resp:13259968
Ion Ratio Lower Upper
45 100
46 38.2 16.6 66.2





#15

Acetone

Concen: 67.806 ppbv m

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-7(2021)

Tot Ion: 43 Resp: 8464337

Ion Ratio Lower Upper

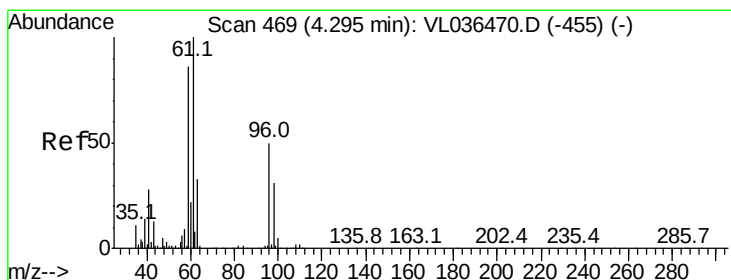
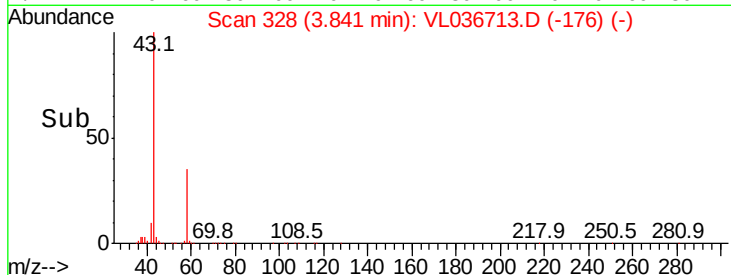
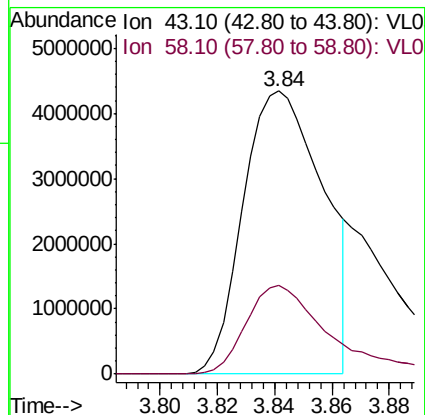
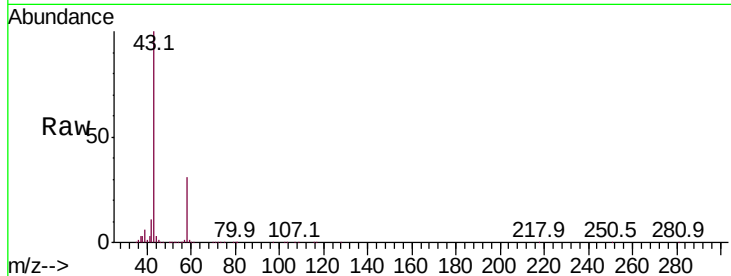
43 100

58 34.4 21.2 31.8#

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#17

tert-Butyl alcohol

Concen: 1.879 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.02 min

Lab File: VL036713.D

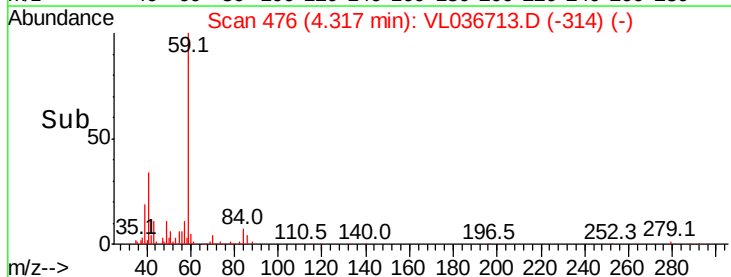
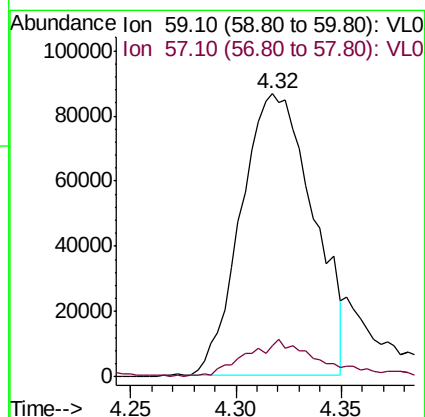
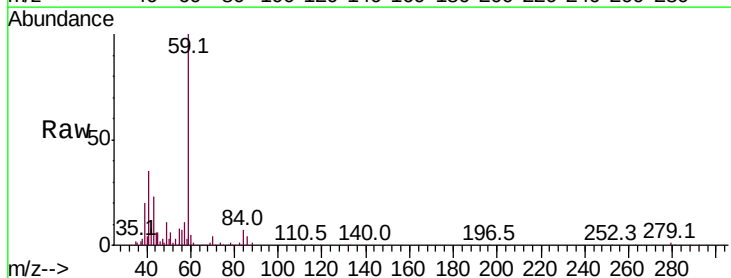
Acq: 7 Apr 2021 1:05

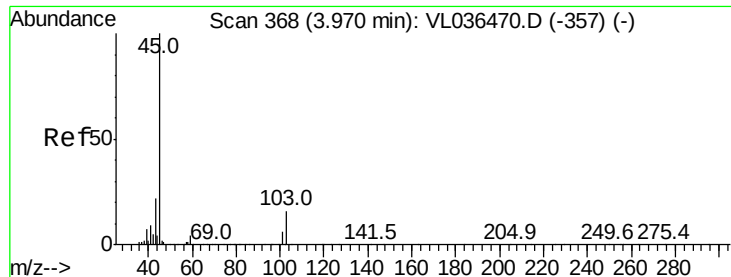
Tgt Ion: 59 Resp: 204138

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#





#19

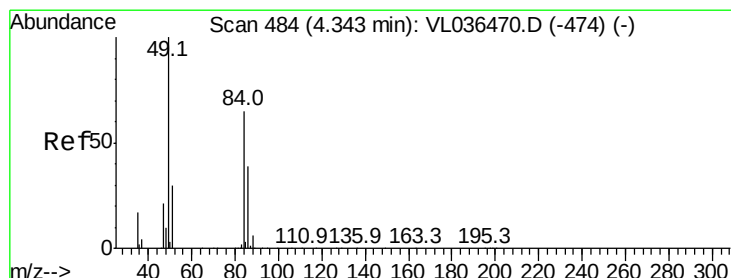
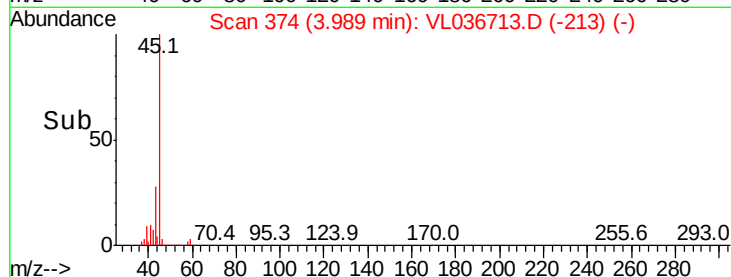
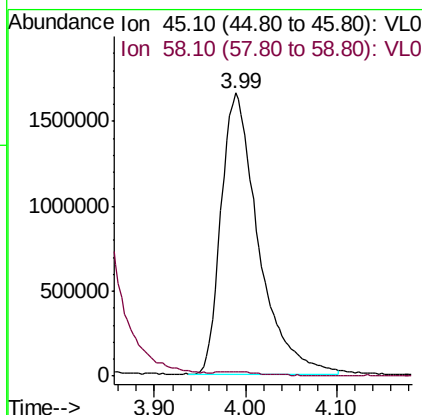
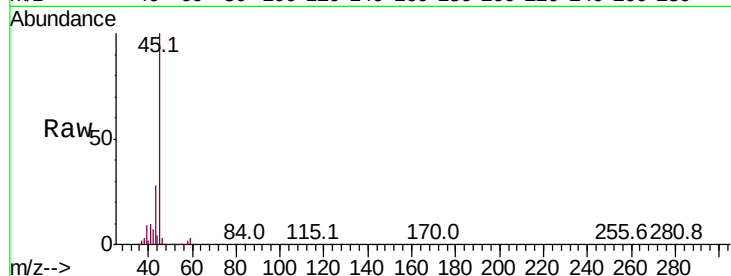
Isopropyl Alcohol
 Concen: 68.995 ppbv
 RT: 3.99 min Scan# 374
 Delta R.T. 0.02 min
 Lab File: VL036713.D
 Acq: 7 Apr 2021 1:05

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-7(2021)

Tot Ion: 45 Resp: 4737887
 Ion Ratio Lower Upper
 45 100
 58 1.9 2.9 4.3#

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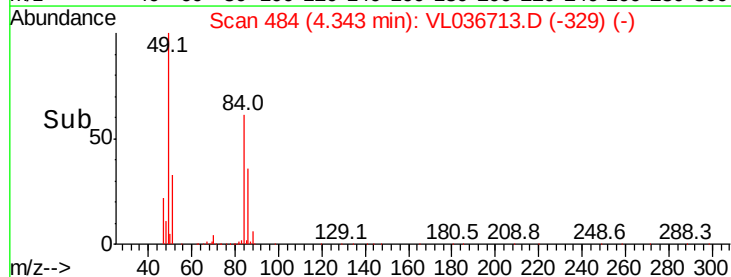
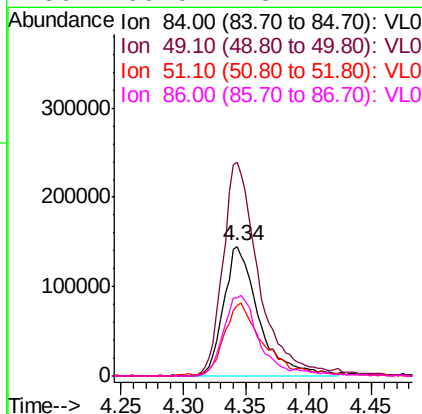
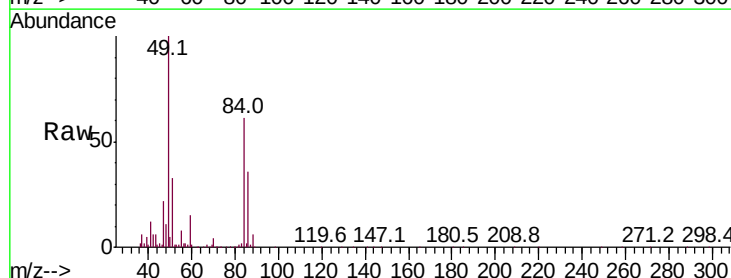
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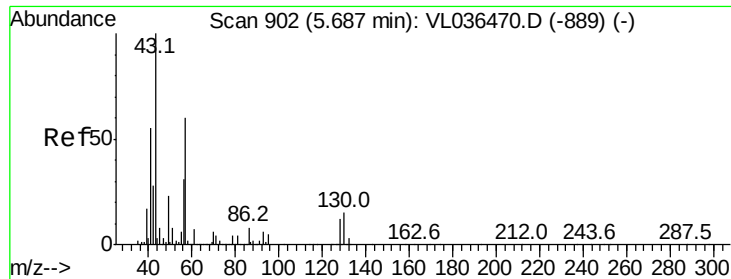


#20

Methylene Chloride
 Concen: 4.808 ppbv
 RT: 4.34 min Scan# 484
 Delta R.T. -0.00 min
 Lab File: VL036713.D
 Acq: 7 Apr 2021 1:05

Tgt Ion: 84 Resp: 280984
 Ion Ratio Lower Upper
 84 100
 49 164.6 122.9 184.3
 51 52.5 36.9 55.3
 86 60.0 48.2 72.4





#26

Hexane

Concen: 4.422 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036713.D

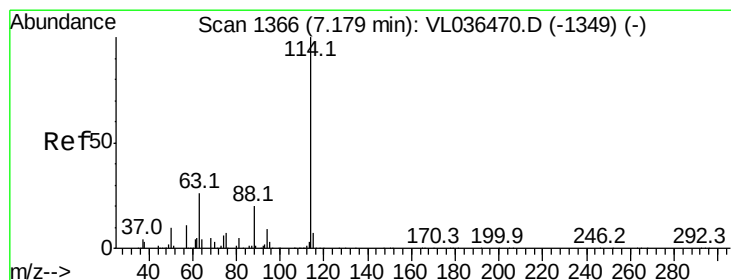
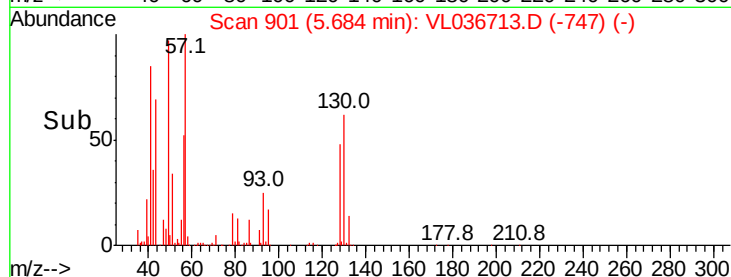
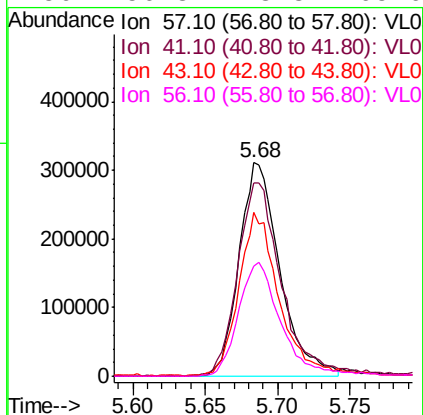
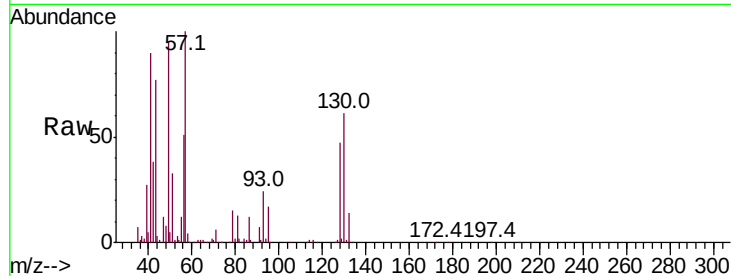
Acq: 7 Apr 2021 1:05

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-7(2021)

Tot Ion	Ratio	Lower	Upper
57	100		
41	98.0	77.2	115.8
43	76.3	173.8	260.6#
56	56.3	43.8	65.6

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

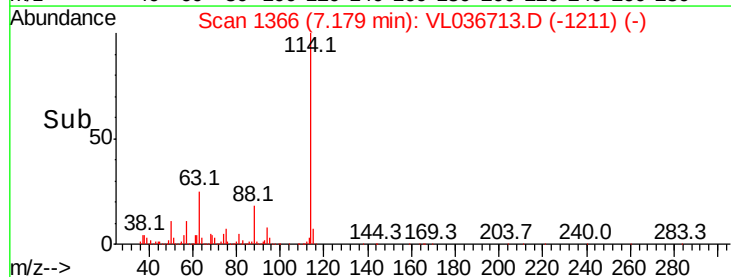
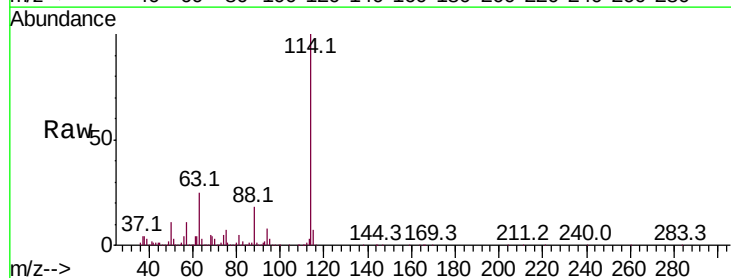
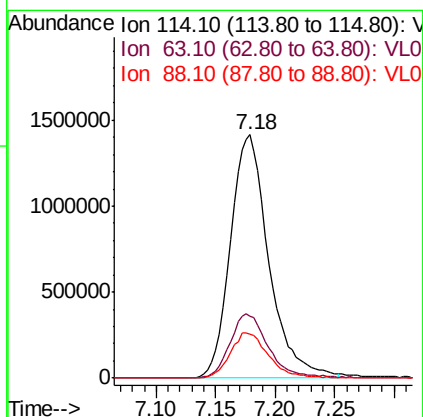
RT: 7.18 min Scan# 1366

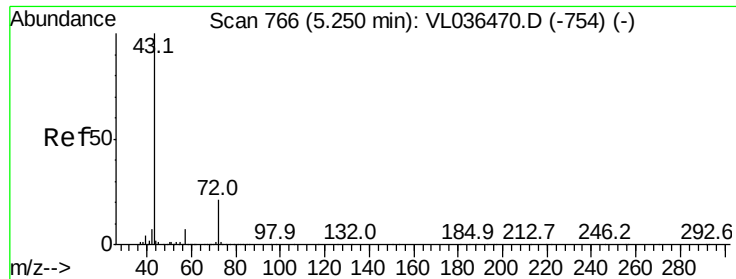
Delta R.T. -0.00 min

Lab File: VL036713.D

Acq: 7 Apr 2021 1:05

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.5	22.4	33.6
88	18.8	15.4	23.0





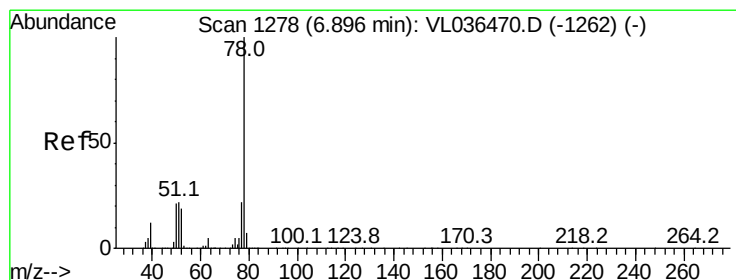
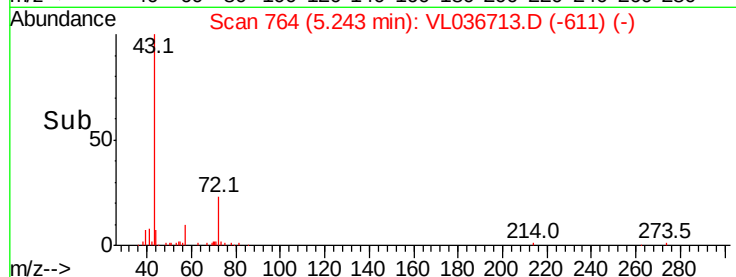
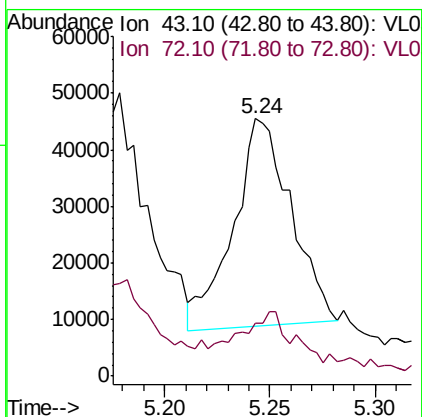
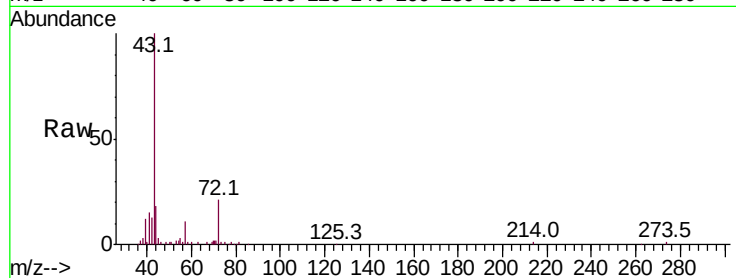
#34
 2-Butanone
 Concen: 0.454 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL036713.D
 Acq: 7 Apr 2021 1:05

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-7(2021)

Tot Ion: 43 Resp: 70016
 Ion Ratio Lower Upper
 43 100
 72 48.4 17.0 25.6#

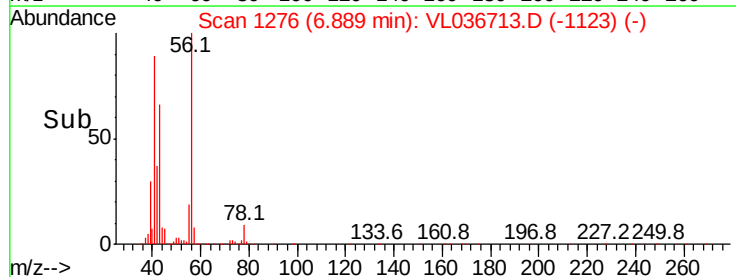
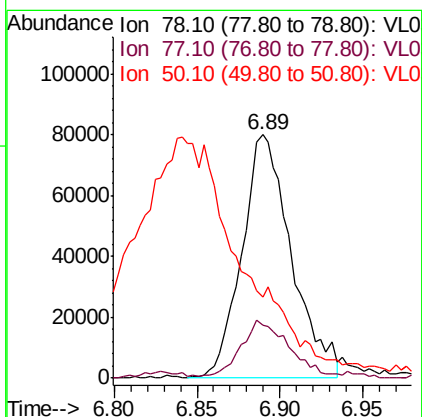
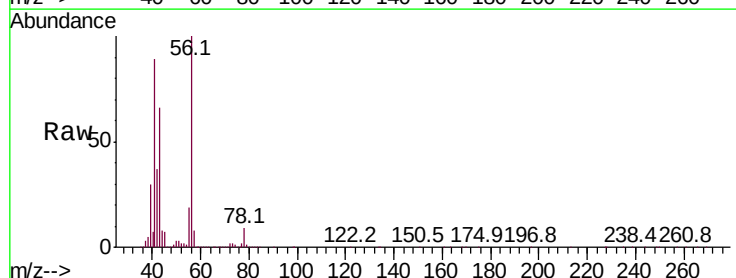
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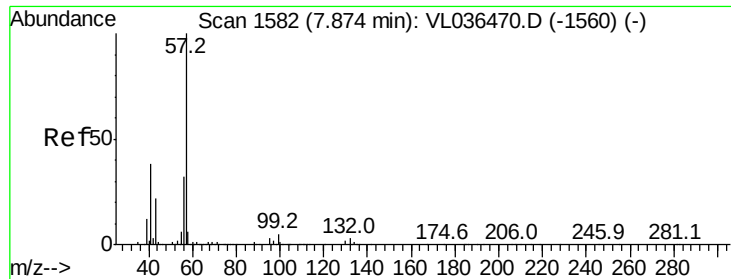
MMDadoda
 4/12/2021 11:11:33 AM



#36
 Benzene
 Concen: 0.570 ppbv
 RT: 6.89 min Scan# 1276
 Delta R.T. -0.01 min
 Lab File: VL036713.D
 Acq: 7 Apr 2021 1:05

Tgt Ion: 78 Resp: 166023
 Ion Ratio Lower Upper
 78 100
 77 21.1 18.0 27.0
 50 25.7 16.5 24.7#





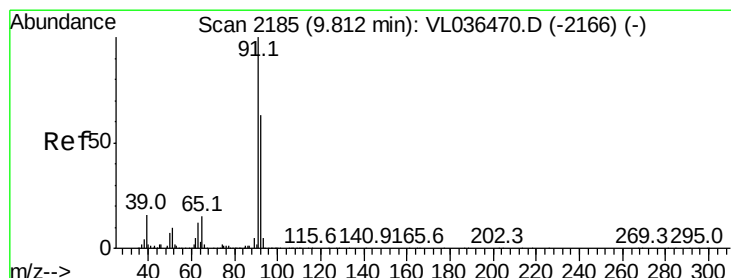
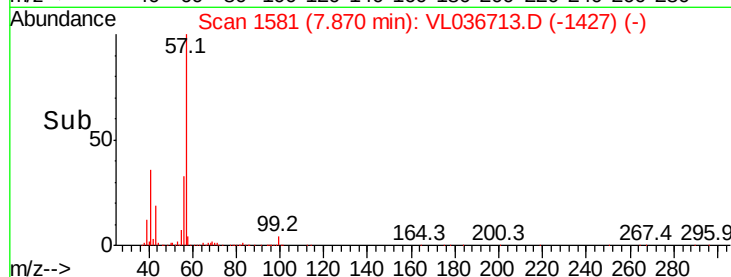
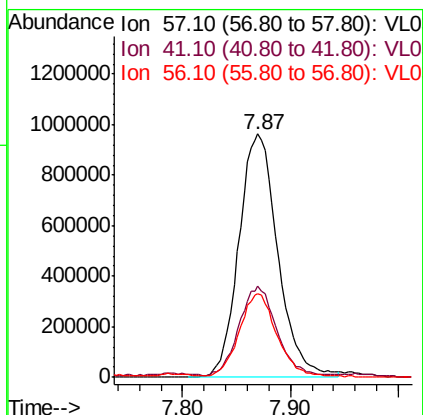
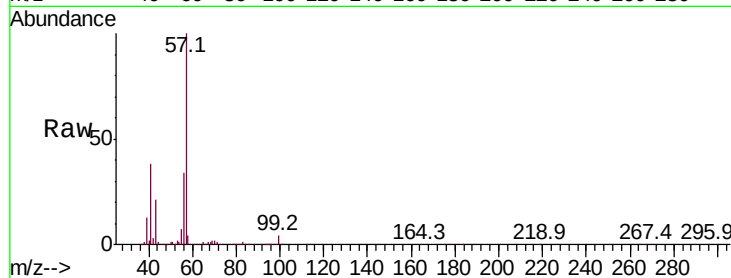
#44
 2,2,4-Trimethylpentane
 Concen: 4.694 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VL036713.D
 Acq: 7 Apr 2021 1:05

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-7(2021)

Tot Ion: 57 Resp: 2408042
 Ion Ratio Lower Upper
 57 100
 41 36.5 28.8 43.2
 56 34.1 26.1 39.1

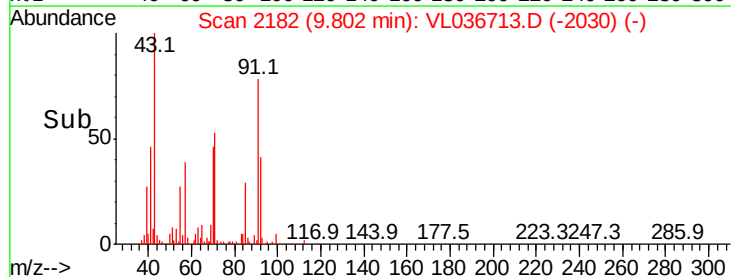
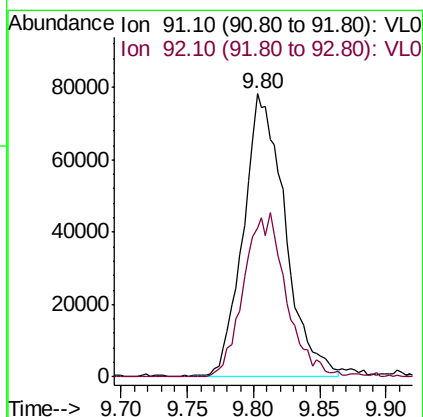
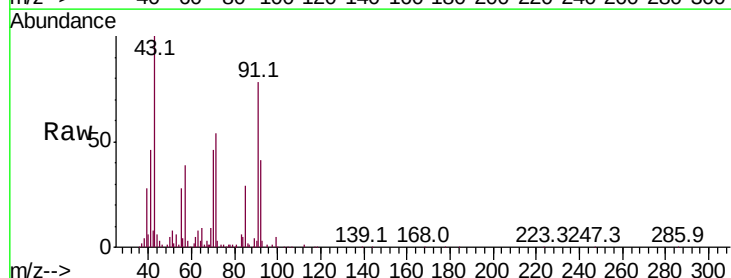
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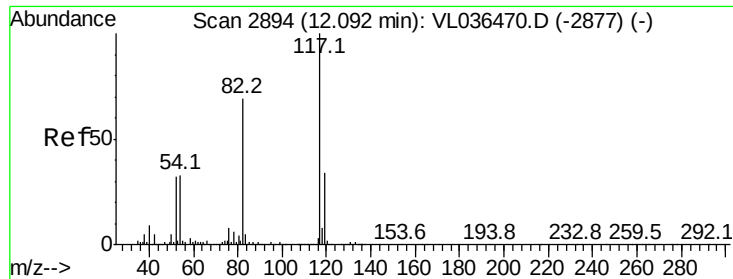
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#53
 Toluene
 Concen: 0.553 ppbv
 RT: 9.80 min Scan# 2182
 Delta R.T. -0.01 min
 Lab File: VL036713.D
 Acq: 7 Apr 2021 1:05

Tgt Ion: 91 Resp: 171811
 Ion Ratio Lower Upper
 91 100
 92 59.3 48.8 73.2





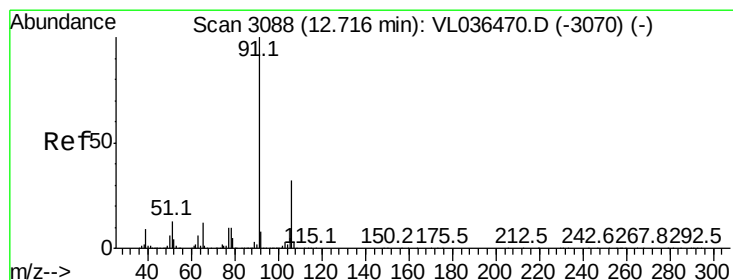
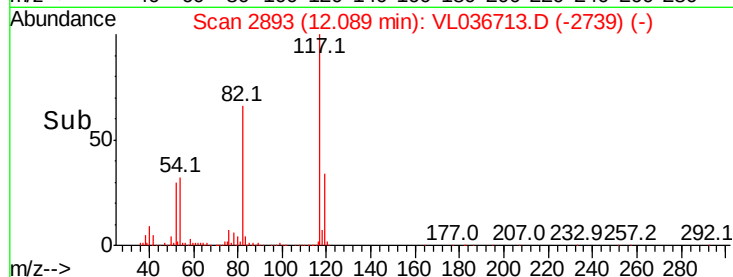
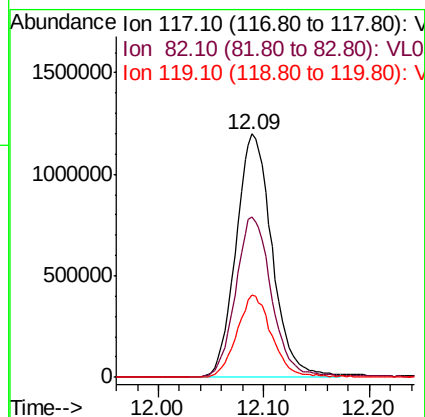
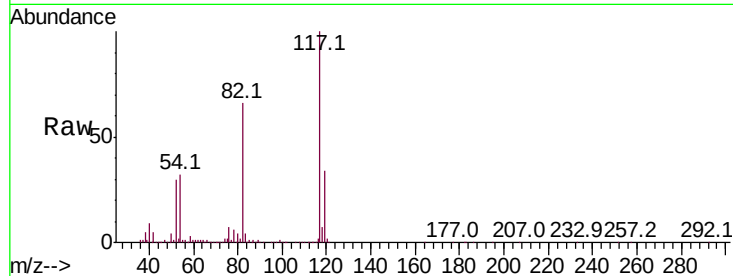
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-7(2021)

Tot Ion:117 Resp: 2852556
Ion Ratio Lower Upper
117 100
82 66.6 57.4 86.0
119 33.1 47.4 71.0#

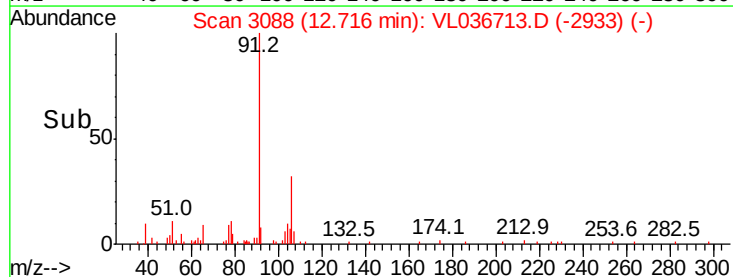
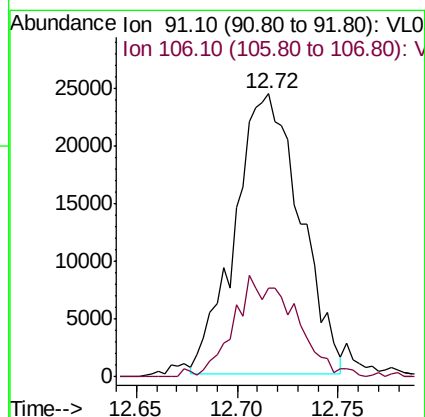
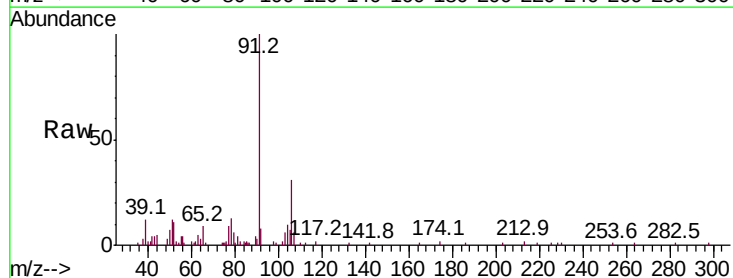
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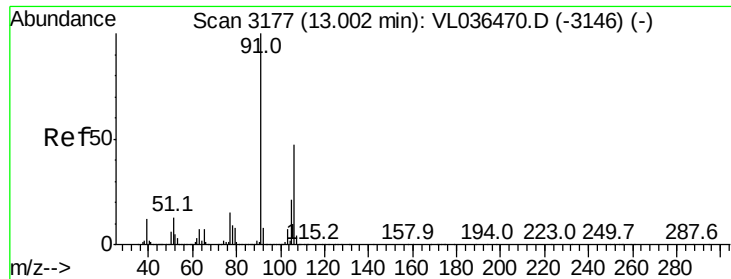
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#58
Ethyl Benzene
Concen: 0.132 ppbv
RT: 12.72 min Scan# 3088
Delta R.T. -0.00 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Tgt Ion: 91 Resp: 54704
Ion Ratio Lower Upper
91 100
106 30.5 25.3 37.9





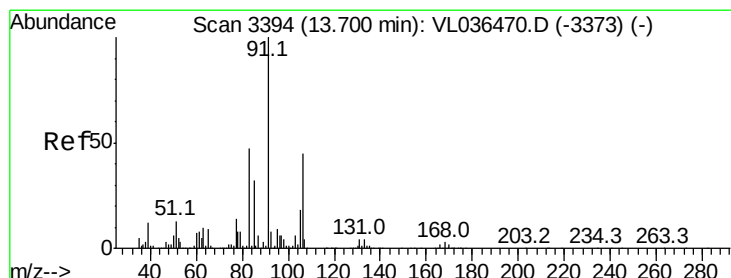
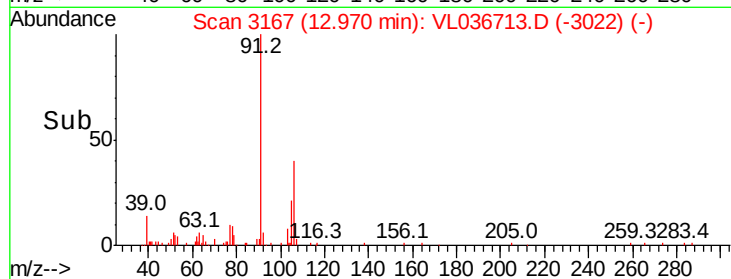
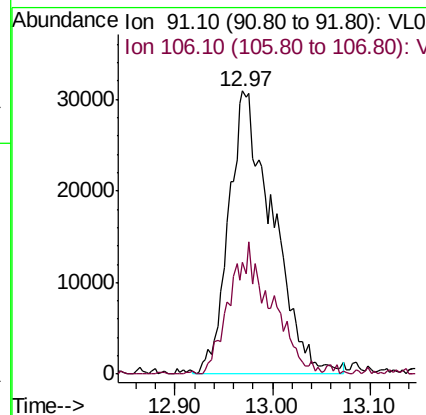
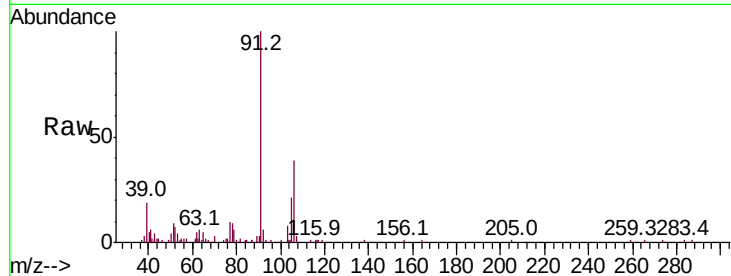
#59
m/p-Xylene
Concen: 0.267 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-7(2021)

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9#

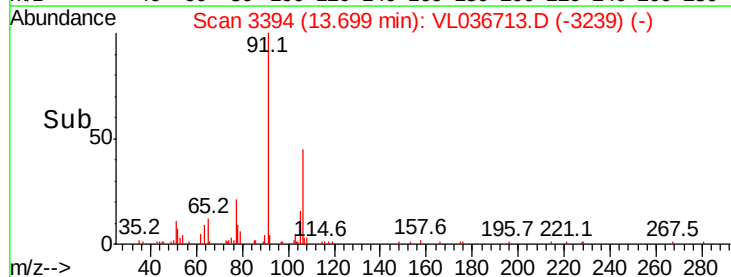
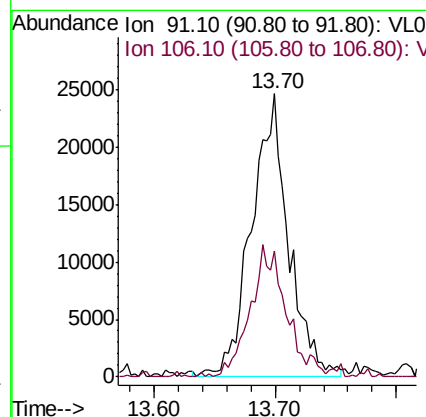
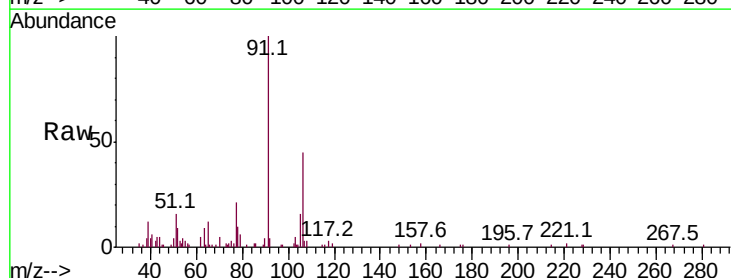
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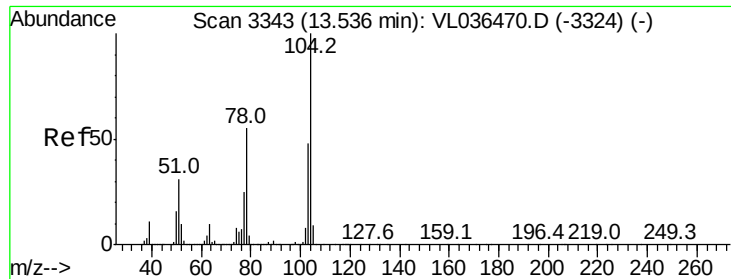
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#60
o-Xylene
Concen: 0.150 ppbv m
RT: 13.70 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	22.3	66.9#





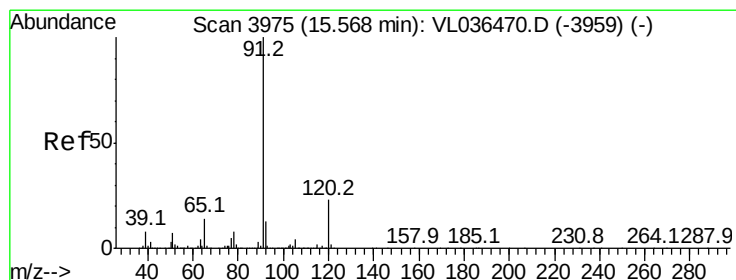
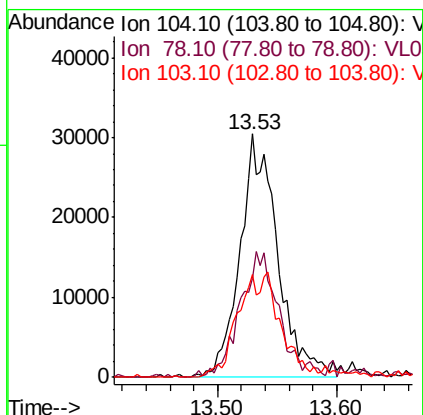
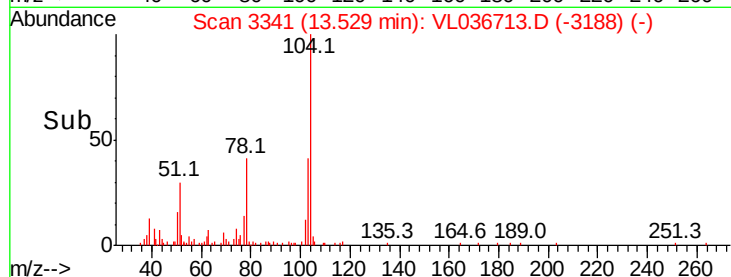
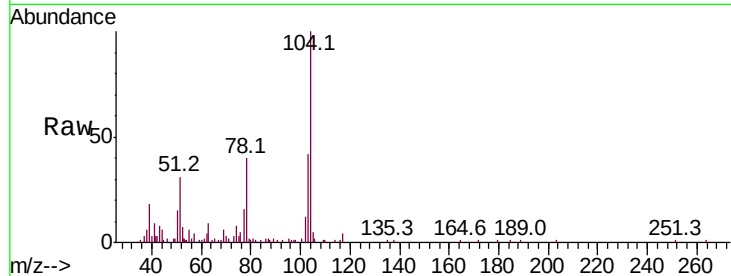
#61
Stvrene
Concen: 0.380 ppbv m
RT: 13.53 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-7(2021)

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.7	43.8	65.8
103	0.0	38.3	57.5#

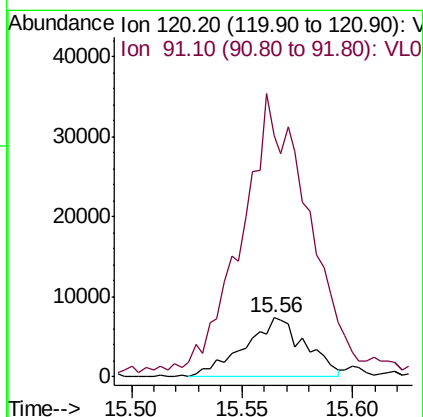
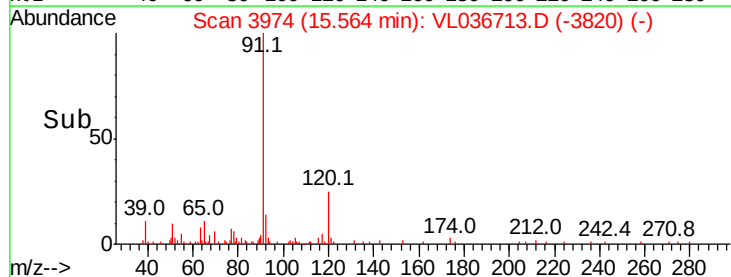
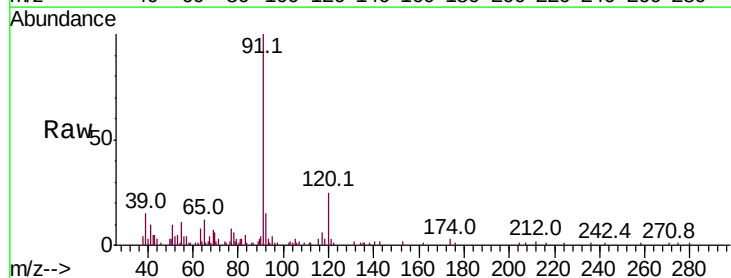
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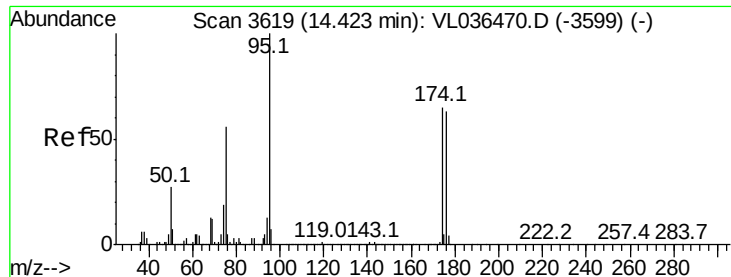
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#64
n-propylbenzene
Concen: 0.122 ppbv
RT: 15.56 min Scan# 3974
Delta R.T. -0.00 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Tgt Ion	Ratio	Lower	Upper
120	100		
91	526.6	377.4	566.2





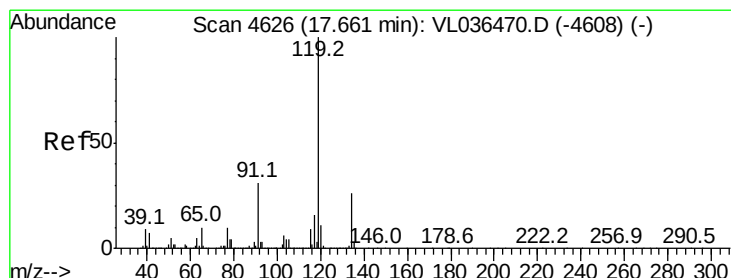
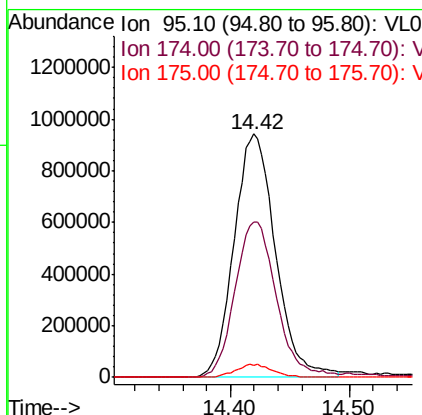
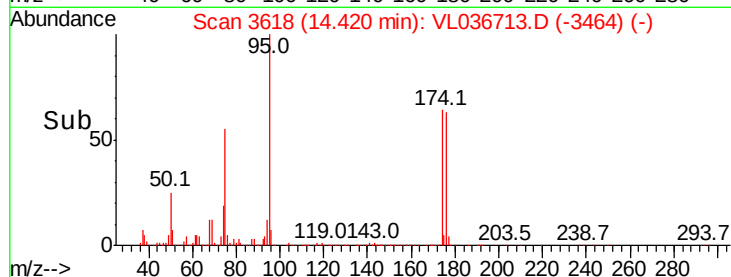
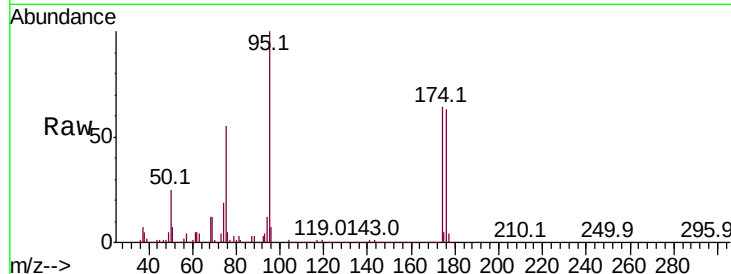
#68
1-Bromo-4-Fluorobenzene
Concen: 9.955 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.00 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-7(2021)

Tot Ion: 95 Resp: 2263335
Ion Ratio Lower Upper
95 100
174 66.5 51.0 76.6
175 4.8 3.9 5.9

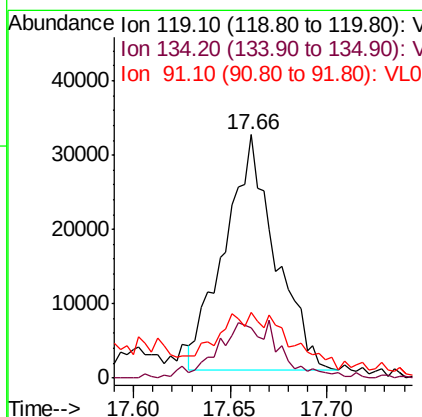
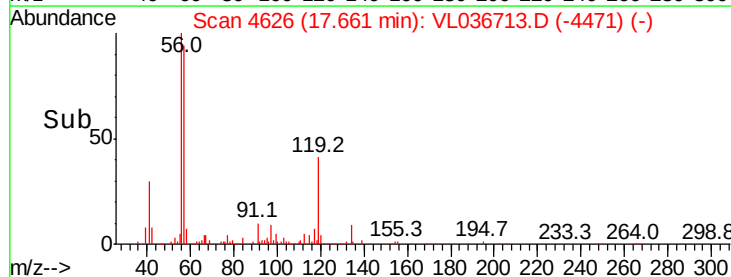
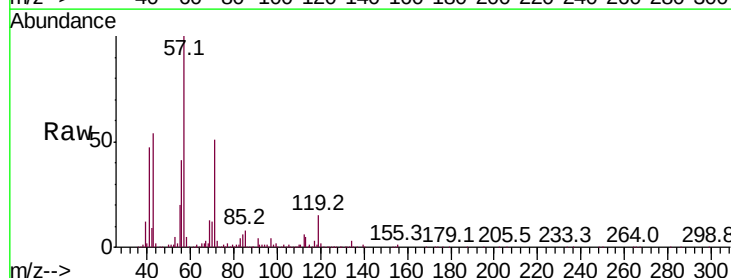
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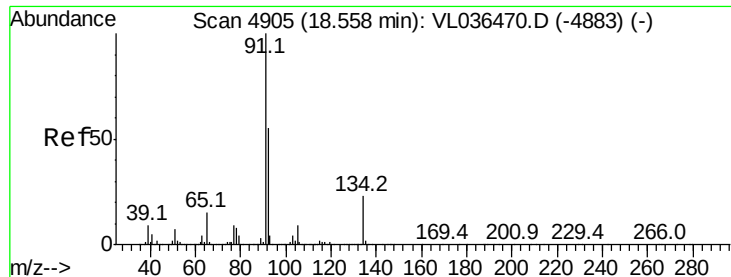
MMDadoda
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#69
p-Isopropyltoluene
Concen: 0.128 ppbv
RT: 17.66 min Scan# 4626
Delta R.T. -0.00 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Tgt Ion: 119 Resp: 57757
Ion Ratio Lower Upper
119 100
134 29.9 20.6 30.8
91 46.6 25.0 37.6#





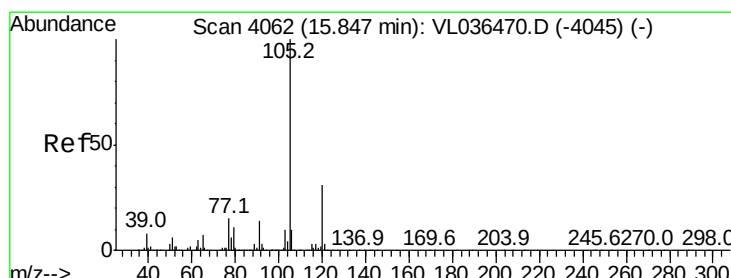
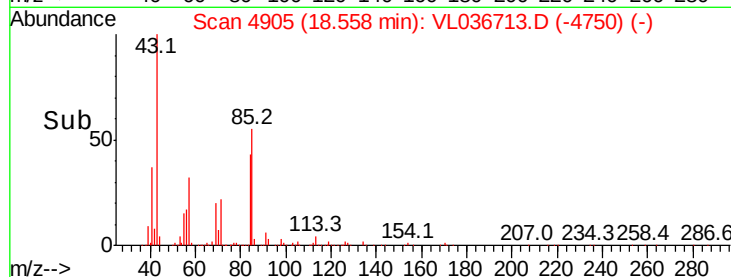
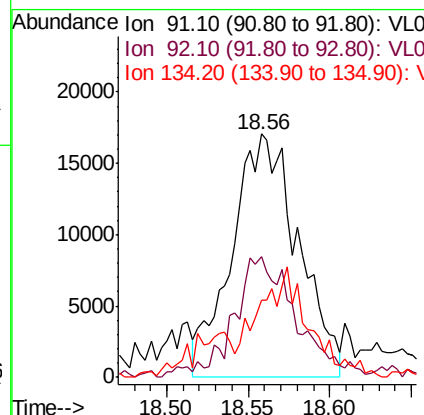
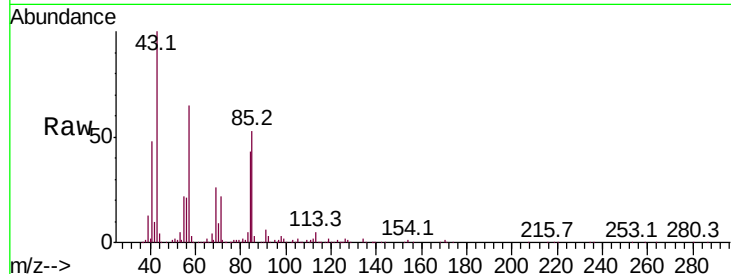
#70
n-Butylbenzene
Concen: 0.103 ppbv m
RT: 18.56 min Scan# 4905
Delta R.T. -0.00 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-7(2021)

Tot Ion	Ratio	Lower	Upper
91	100		
92	0.0	43.8	65.8#
134	0.0	18.0	27.0#

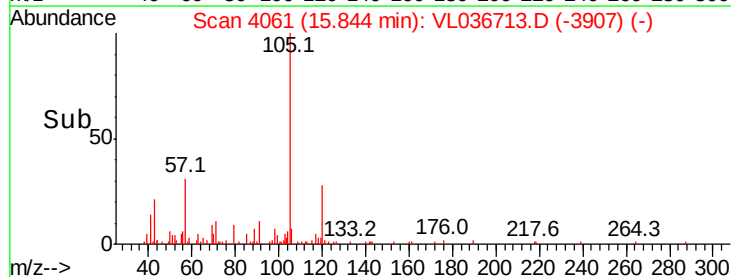
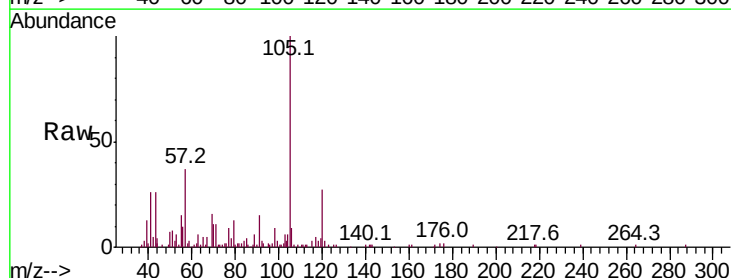
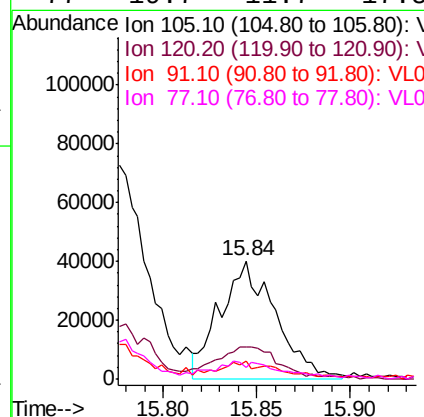
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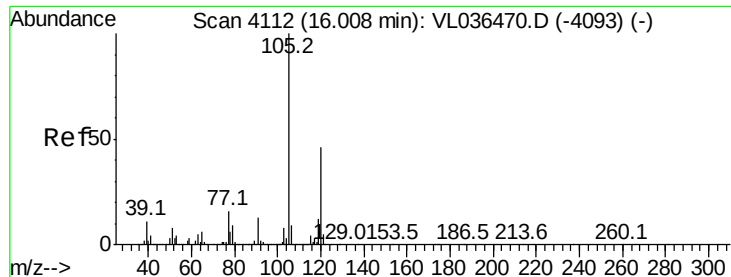
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#72
4-Ethyltoluene
Concen: 0.216 ppbv m
RT: 15.84 min Scan# 4061
Delta R.T. -0.00 min
Lab File: VL036713.D
Acq: 7 Apr 2021 1:05

Tgt Ion	Ratio	Lower	Upper
105	100		
120	31.8	24.0	36.0
91	13.2	11.0	16.4
77	19.7	11.7	17.5#





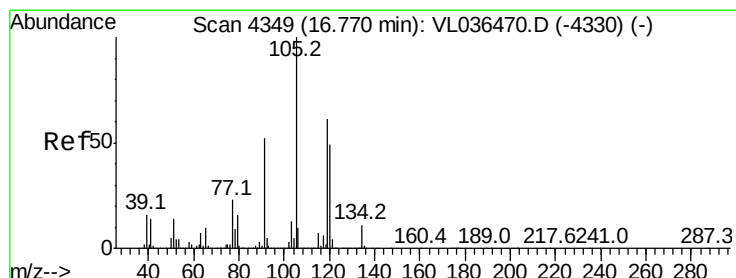
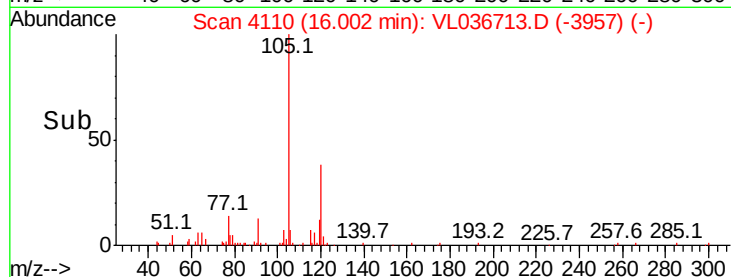
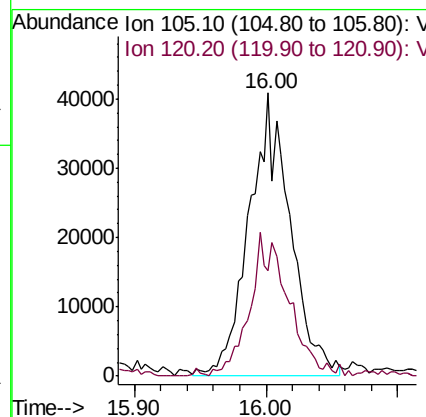
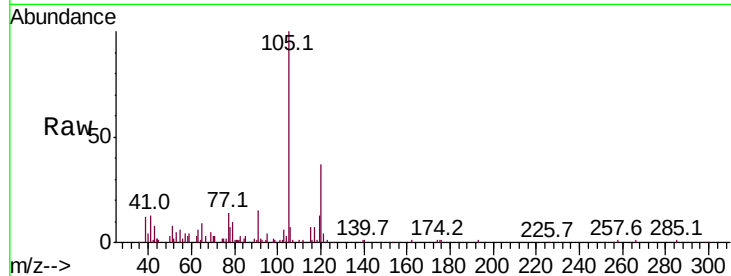
#73
 1,3,5-Trimethylbenzene
 Concen: 0.248 ppbv m
 RT: 16.00 min Scan# 4110
 Delta R.T. -0.01 min
 Lab File: VL036713.D
 Acq: 7 Apr 2021 1:05

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-7(2021)

Tot Ion	Ratio	Lower	Upper
105	100		
120	37.4	36.6	54.8

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.607 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.00 min
 Lab File: VL036713.D
 Acq: 7 Apr 2021 1:05

Tgt Ion	Ratio	Lower	Upper
105	100		
120	41.1	39.2	58.8
91	12.3	42.6	64.0#
77	12.3	18.6	28.0#

