

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040221\
 Data File : VL036670.D
 Acq On : 3 Apr 2021 7:43
 Operator : SY/AP
 Sample : M1853-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SOFF-SG-03

Manual Integrations
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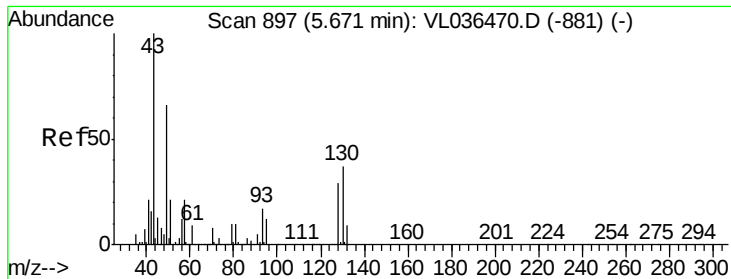
Quant Time: Apr 04 18:49:46 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1092669	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	2724308	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	2467763	10.00	ppbv	-0.04

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	1930432	9.81	ppbv	-0.04	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	23839	0.134	ppbv	96
3) Chlorodifluoromethane	2.97	51	897315	4.395	ppbv #	89
4) Chloromethane	3.12	50	44696	0.620	ppbv	97
9) Propene	3.00	41	90802m	1.395	ppbv	
10) Heptane	8.10	43	288639	1.741	ppbv	94
11) Trichlorofluoromethane	3.92	101	34976m	0.193	ppbv	
13) Ethanol	3.60	45	8277939	1068.089	ppbv	93
15) Acetone	3.83	43	973638m	9.053	ppbv	
17) tert-Butyl alcohol	4.29	59	23059	0.246	ppbv #	72
19) Isopropyl Alcohol	3.96	45	9290314	157.038	ppbv #	90
20) Methylene Chloride	4.32	84	140033	2.781	ppbv	95
26) Hexane	5.66	57	784598	6.613	ppbv #	48
30) Cyclohexane	7.10	84	93726	0.974	ppbv	96
34) 2-Butanone	5.22	43	267312	2.010	ppbv	100
35) Carbon Tetrachloride	7.00	117	10754m	0.051	ppbv	
36) Benzene	6.86	78	224794	0.895	ppbv	97
41) Tetrahydrofuran	6.02	42	370323	6.040	ppbv	98
44) 2,2,4-Trimethylpentane	7.84	57	4862627	10.996	ppbv	97
53) Toluene	9.78	91	1450981	5.423	ppbv	100
58) Ethyl Benzene	12.68	91	158371	0.441	ppbv	97
59) m/p-Xylene	12.94	91	513653	1.640	ppbv	95
60) o-Xylene	13.66	91	239339	0.790	ppbv	98
61) Styrene	13.49	104	19300m	0.127	ppbv	
62) Isopropylbenzene	14.63	105	102610m	0.252	ppbv	
64) n-propylbenzene	15.54	120	23545m	0.236	ppbv	
65) tert-Butylbenzene	16.73	119	50572	0.143	ppbv #	72
67) sec-Butylbenzene	17.27	105	51516m	0.103	ppbv	
72) 4-Ethyltoluene	15.81	105	112770m	0.340	ppbv	
73) 1,3,5-Trimethylbenzene	15.97	105	119173	0.385	ppbv	90
74) 1,2,4-Trimethylbenzene	16.73	105	416764	1.258	ppbv #	69
79) Naphthalene	22.17	128	53542m	0.277	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

Tot Ion: 49 Resp: 1092669

Ion Ratio Lower Upper

49 100

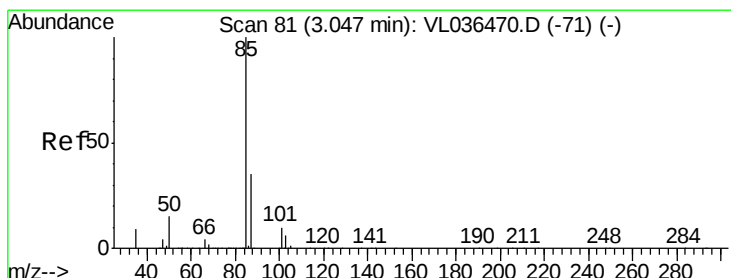
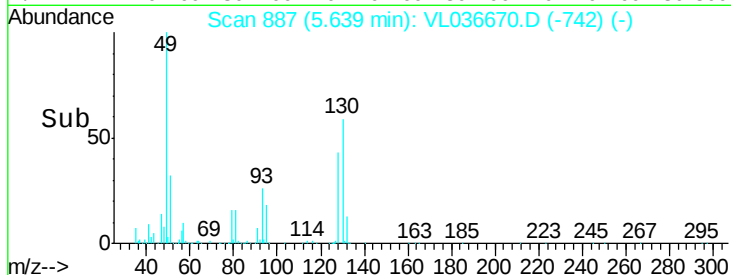
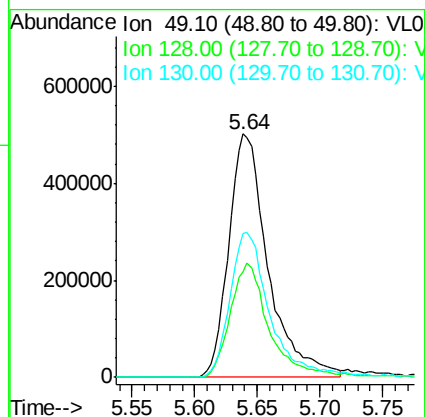
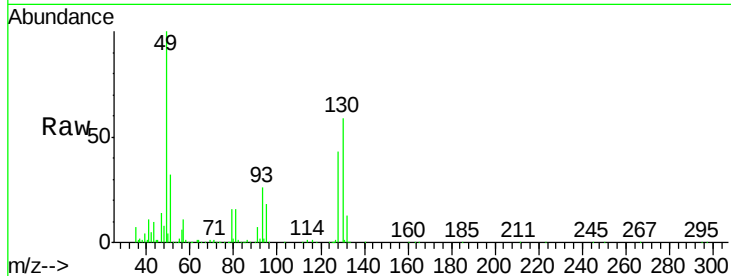
128 47.4 23.5 70.6

130 61.9 29.1 87.4

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#2

Dichlorodifluoromethane

Concen: 0.134 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.02 min

Lab File: VL036670.D

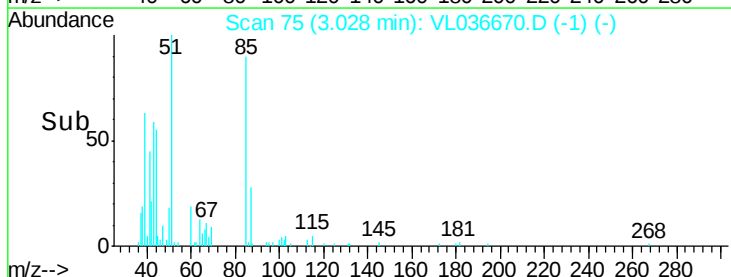
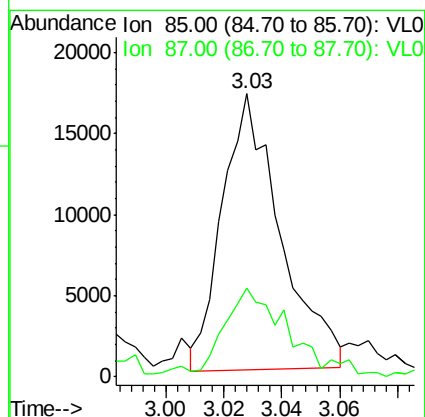
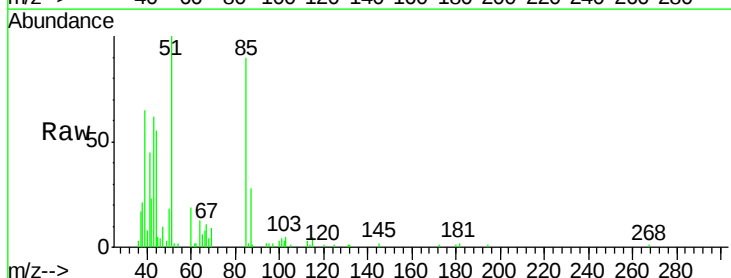
Acq: 3 Apr 2021 7:43

Tgt Ion: 85 Resp: 23839

Ion Ratio Lower Upper

85 100

87 32.8 27.8 41.8





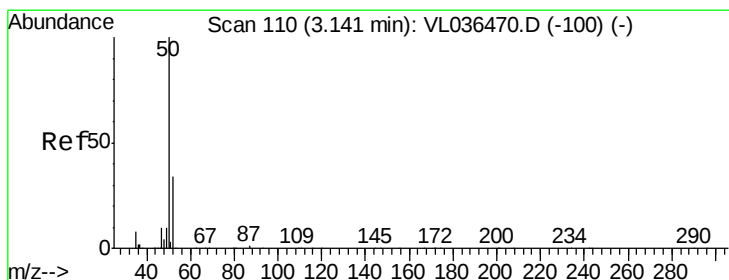
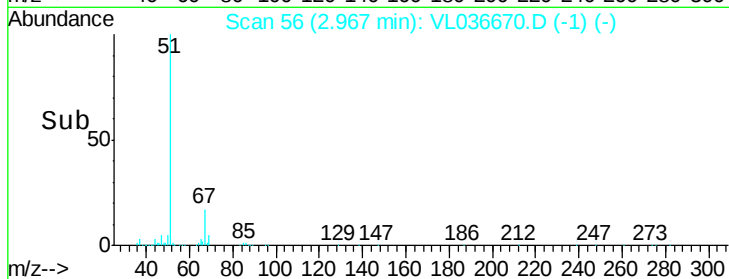
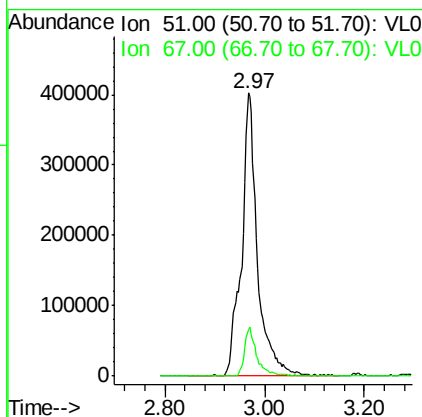
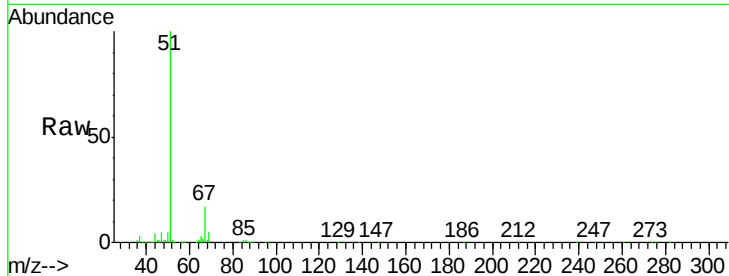
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Chlorodifluoromethane
Concen: 4.395 ppbv
RT: 2.97 min Scan# 56
Delta R.T. -0.02 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-03

Tot Ion: 51 Resp: 897315
Ion Ratio Lower Upper
51 100
67 13.5 14.7 22.1#

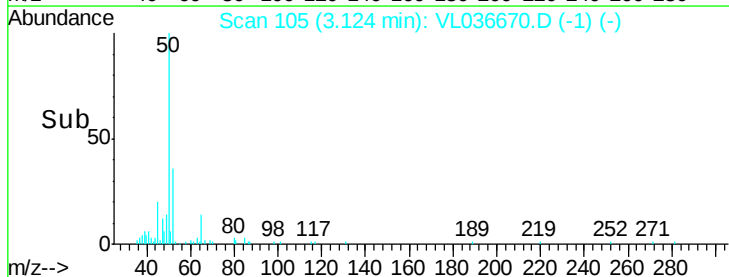
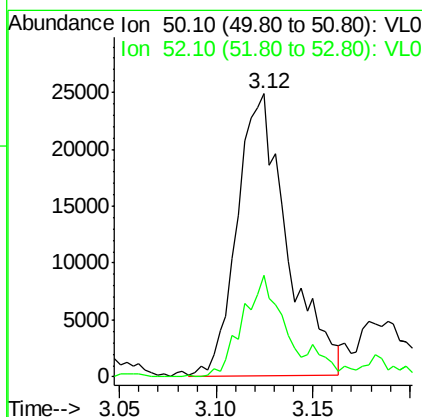
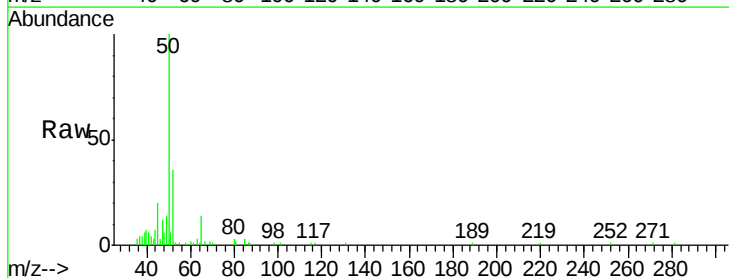
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#4
Chloromethane
Concen: 0.620 ppbv
RT: 3.12 min Scan# 105
Delta R.T. -0.02 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Tgt Ion: 50 Resp: 44696
Ion Ratio Lower Upper
50 100
52 35.7 27.0 40.6





#9

Propene

Concen: 1.395 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

Tot Ion: 41 Resp: 90802

Ion Ratio Lower Upper

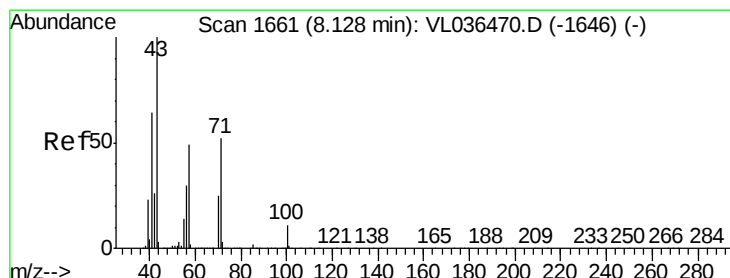
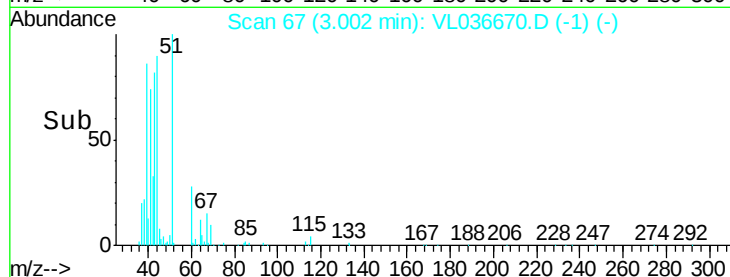
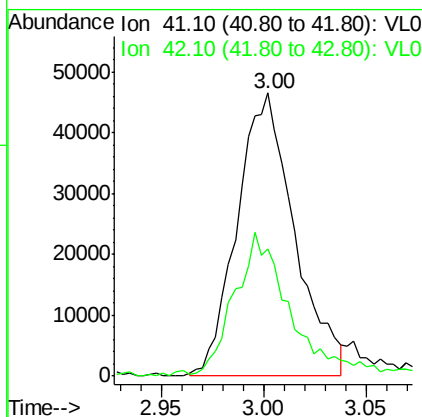
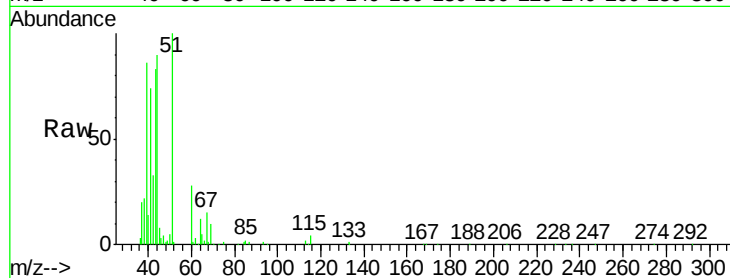
41 100

42 244.0 57.0 85.4#

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#10

Heptane

Concen: 1.741 ppbv

RT: 8.10 min Scan# 1651

Delta R.T. -0.03 min

Lab File: VL036670.D

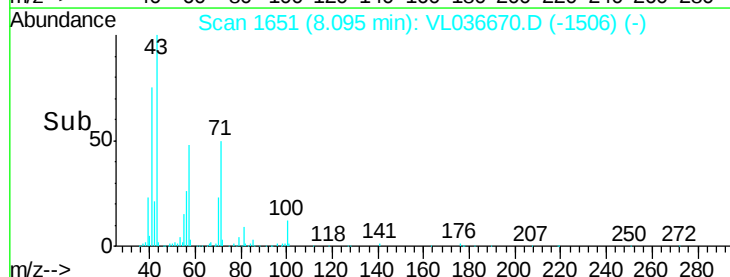
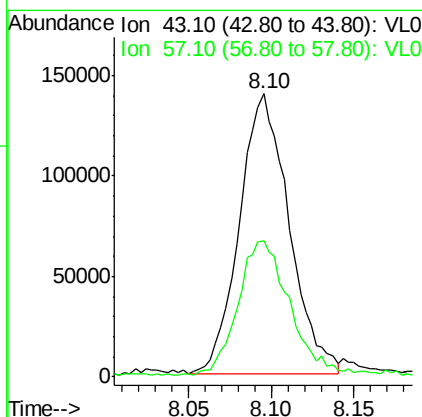
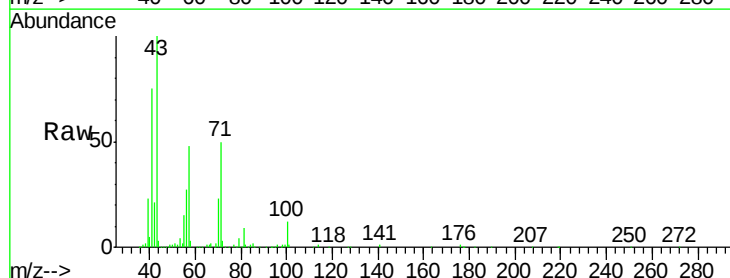
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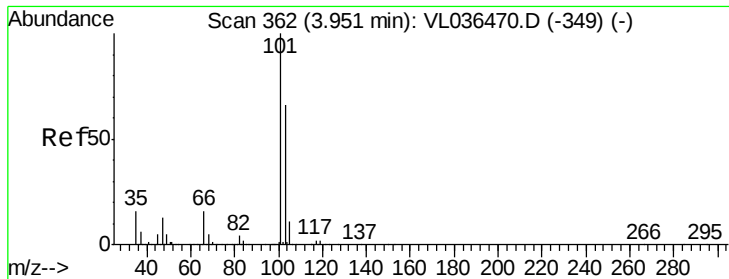
Tgt Ion: 43 Resp: 288639

Ion Ratio Lower Upper

43 100

57 52.9 39.0 58.6





#11

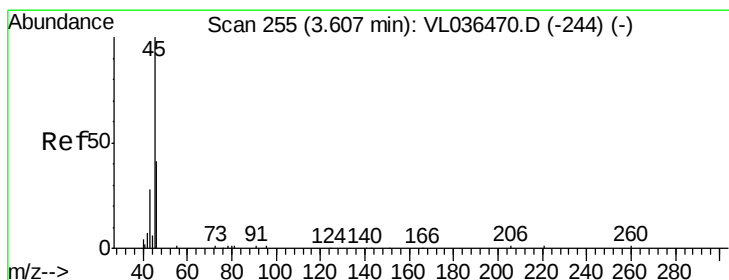
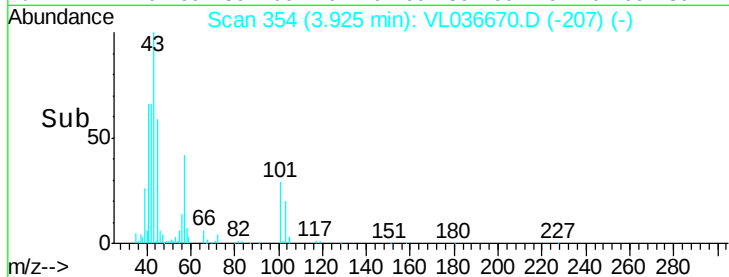
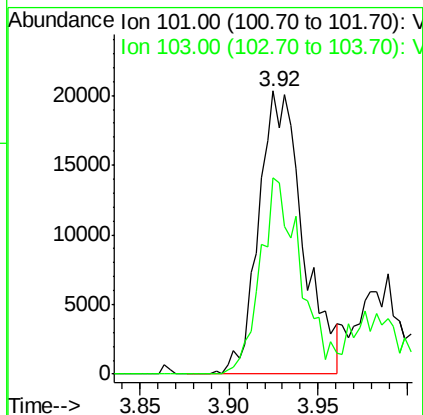
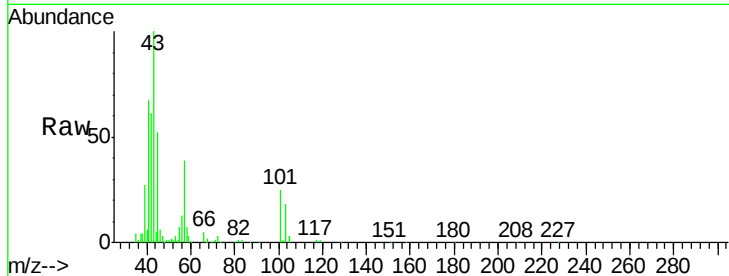
Trichlorofluoromethane
 Concen: 0.193 ppbv m
 RT: 3.92 min Scan# 354
 Delta R.T. -0.03 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SOFF-SG-03

Tot Ion	Ratio	Lower	Upper
101	100		
103	69.5	52.5	78.7

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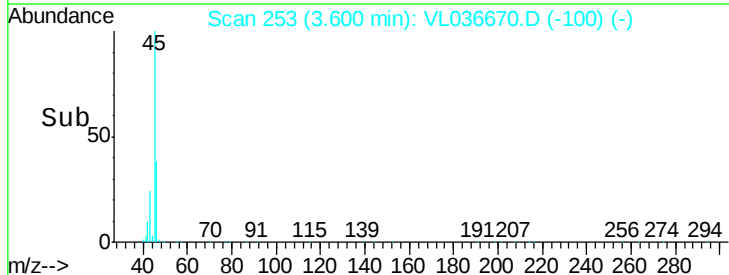
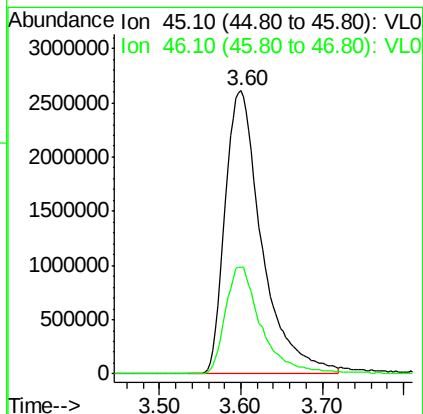
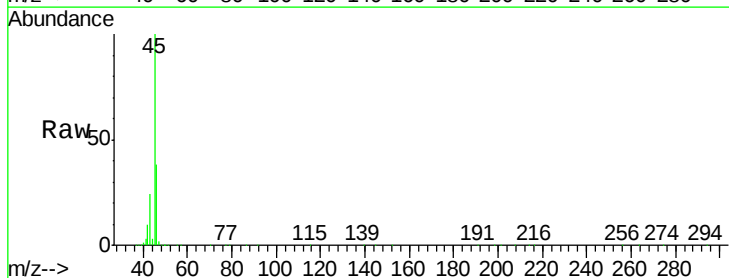
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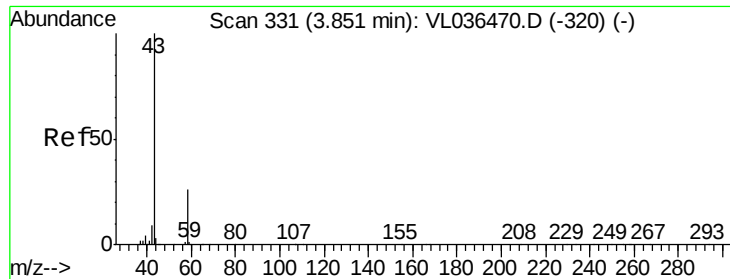


#13

Ethanol
 Concen: 1068.089 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.0	16.6	66.2





#15

Acetone

Concen: 9.053 ppbv m

RT: 3.83 min Scan# 323

Delta R.T. -0.03 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

Tot Ion: 43 Resp: 973638

Ion Ratio Lower Upper

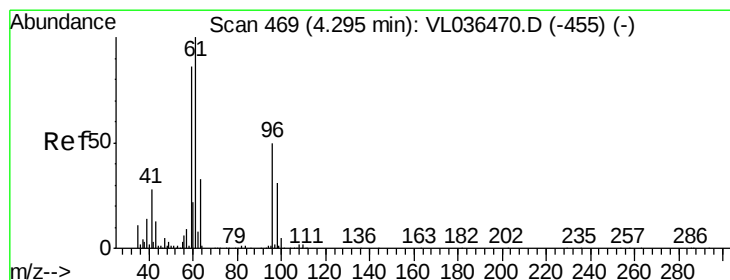
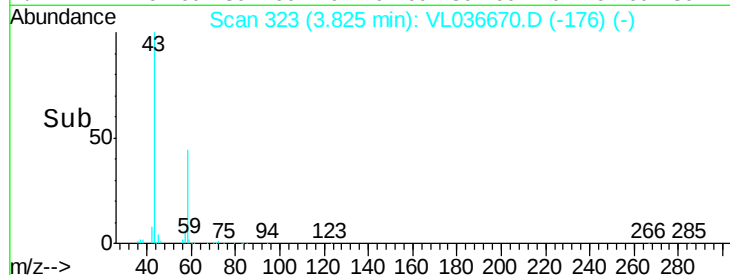
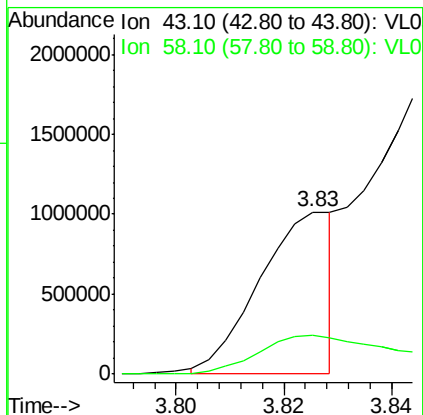
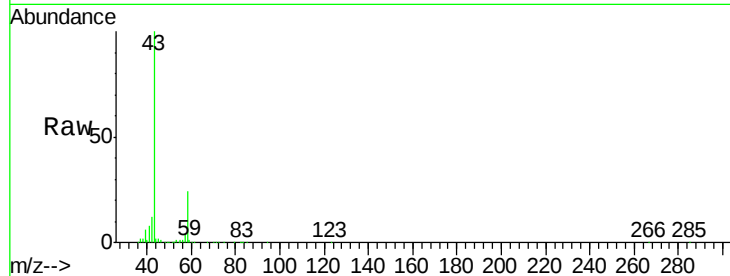
43 100

58 61.8 21.2 31.8#

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#17

tert-Butyl alcohol

Concen: 0.246 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL036670.D

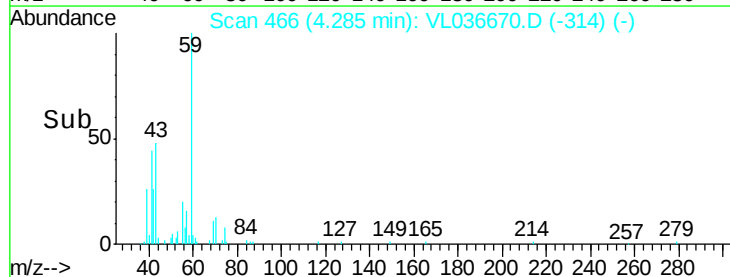
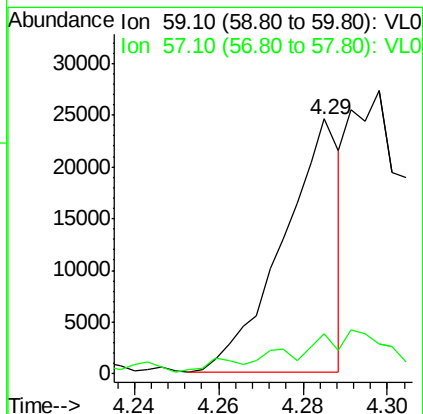
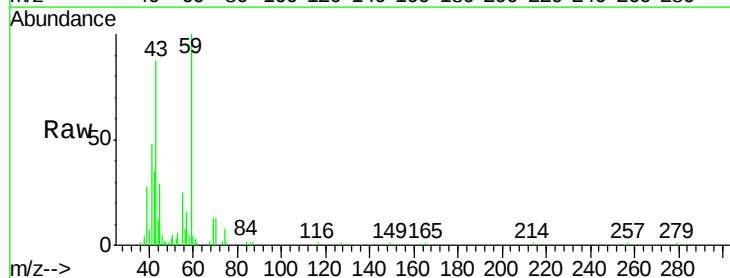
Acq: 3 Apr 2021 7:43

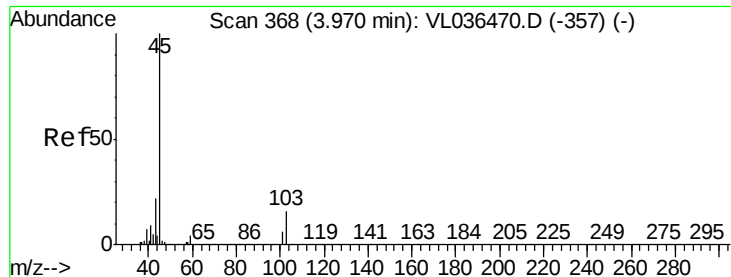
Tgt Ion: 59 Resp: 23059

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 157.038 ppbv

RT: 3.96 min Scan# 366

Delta R.T. -0.01 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

Tot Ion: 45 Resp: 9290314

Ion Ratio Lower Upper

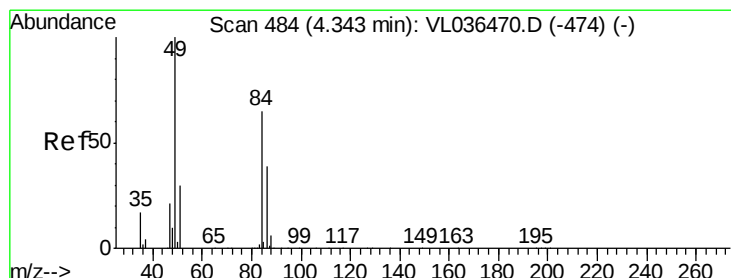
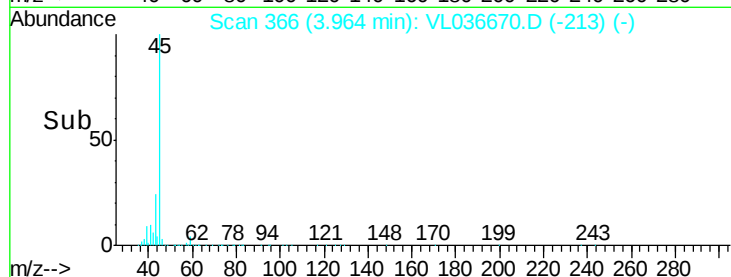
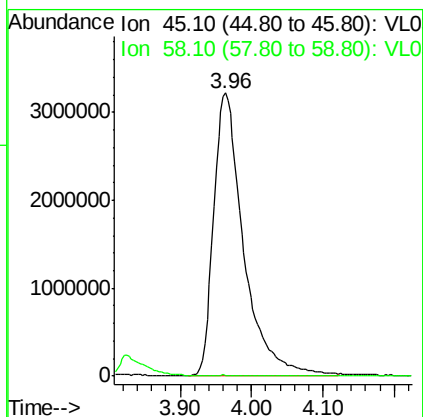
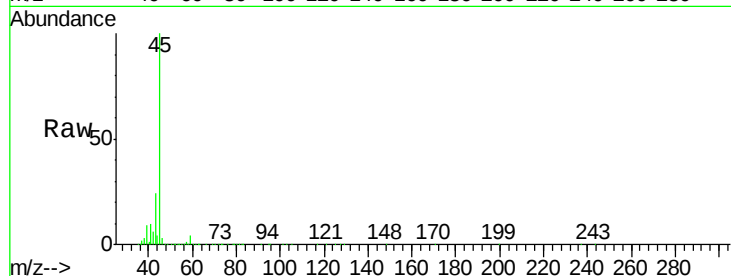
45 100

58 0.5 2.9 4.3#

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#20

Methylene Chloride

Concen: 2.781 ppbv

RT: 4.32 min Scan# 476

Delta R.T. -0.03 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Tgt Ion: 84 Resp: 140033

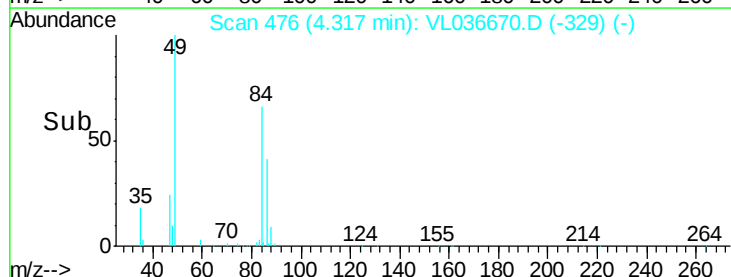
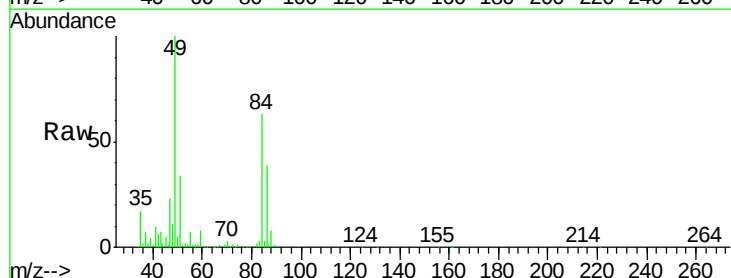
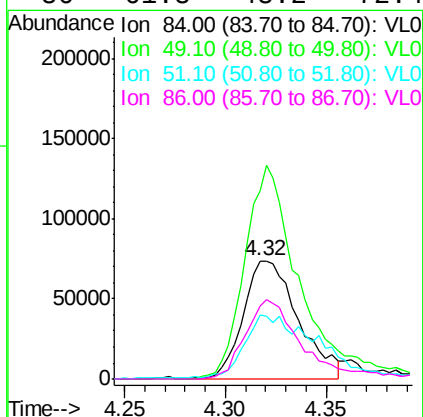
Ion Ratio Lower Upper

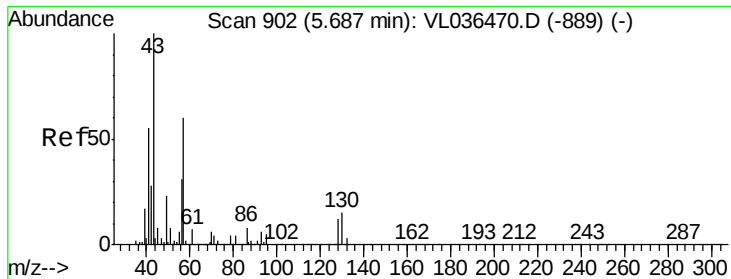
84 100

49 159.3 122.9 184.3

51 52.5 36.9 55.3

86 61.8 48.2 72.4





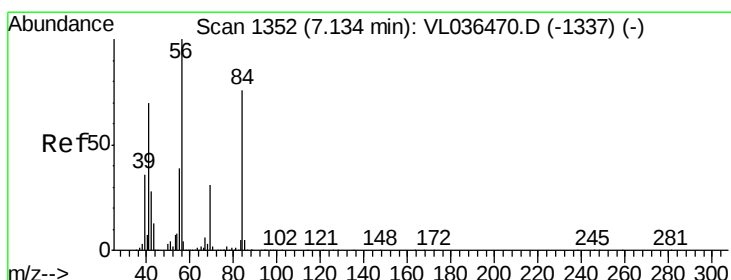
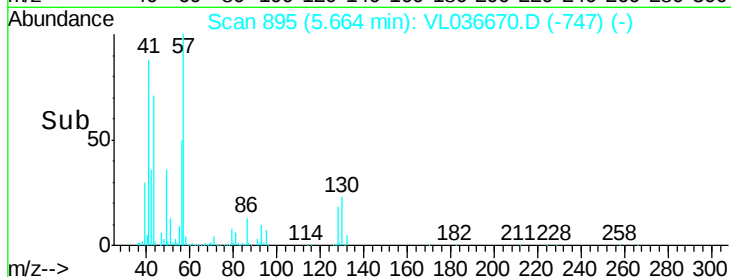
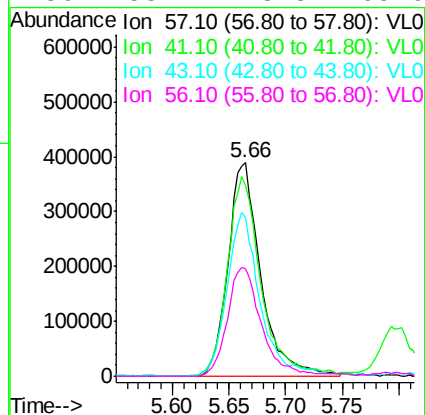
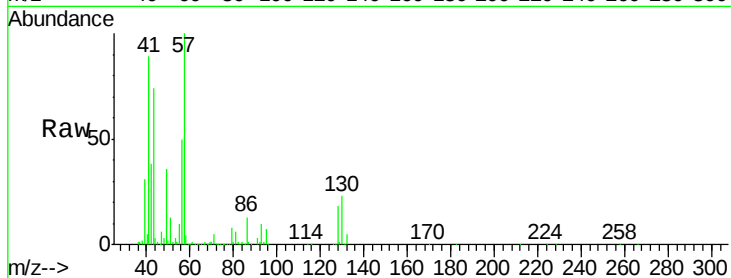
#26
Hexane
Concen: 6.613 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-03

Tot Ion	57	Resp	784598
Ion	Ratio	Lower	Upper
57	100		
41	95.8	77.2	115.8
43	76.8	173.8	260.6#
56	53.7	43.8	65.6

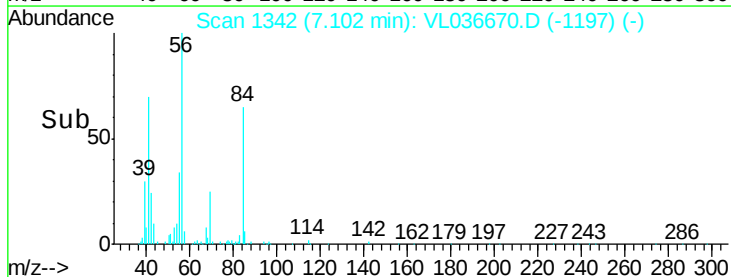
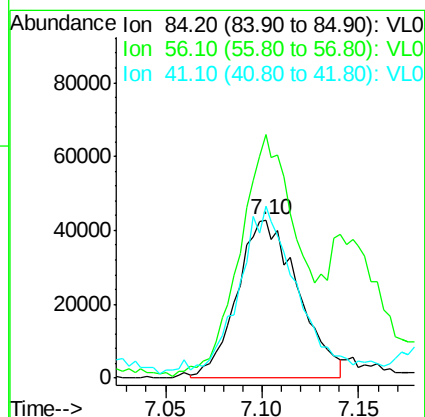
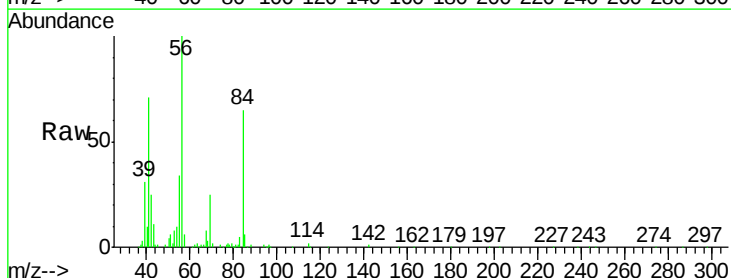
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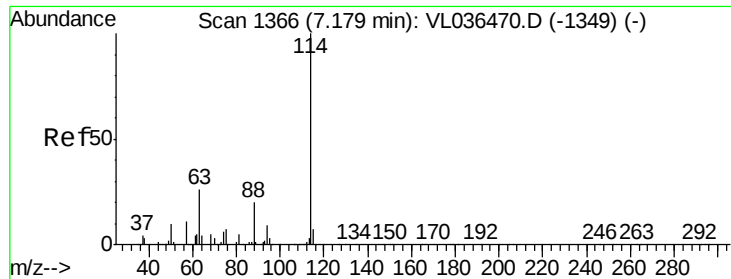
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#30
Cyclohexane
Concen: 0.974 ppbv
RT: 7.10 min Scan# 1342
Delta R.T. -0.03 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Tgt Ion	84	Resp	93726
Ion	Ratio	Lower	Upper
84	100		
56	136.0	114.6	171.8
41	96.0	75.3	112.9





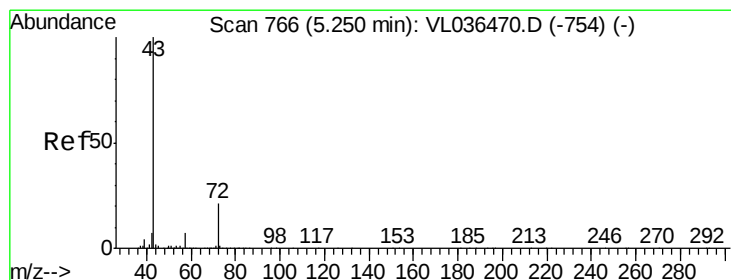
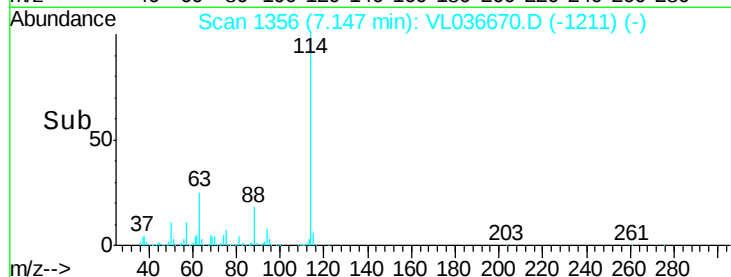
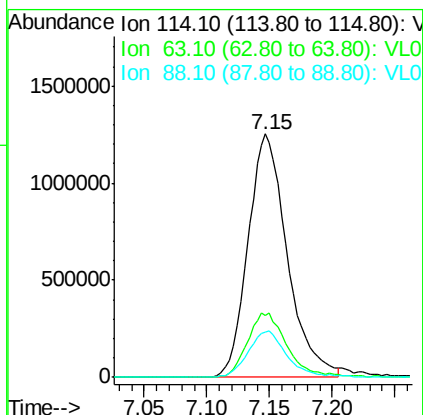
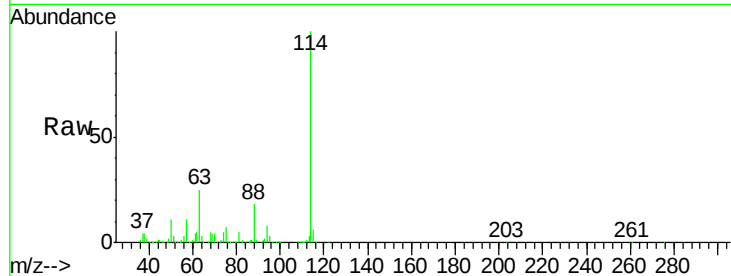
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.03 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SOFF-SG-03

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.3	22.4	33.6
88	19.0	15.4	23.0

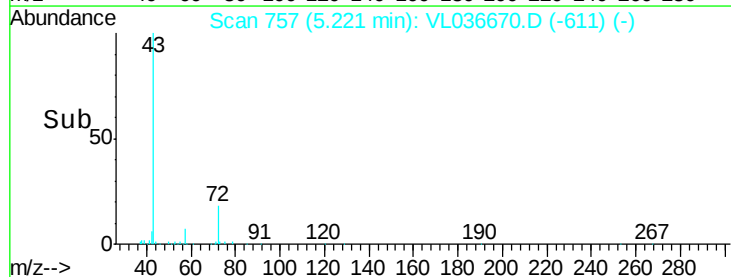
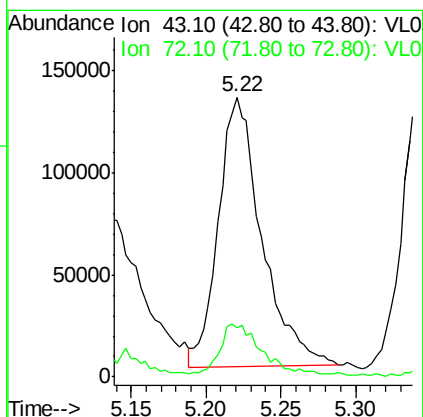
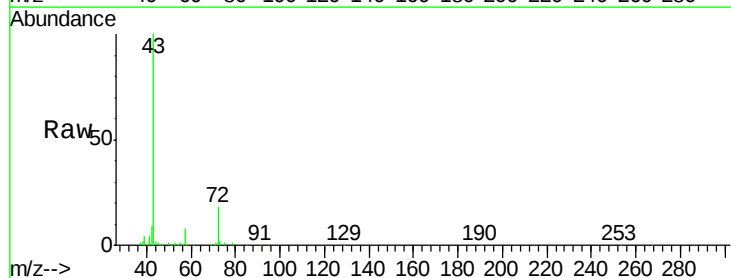
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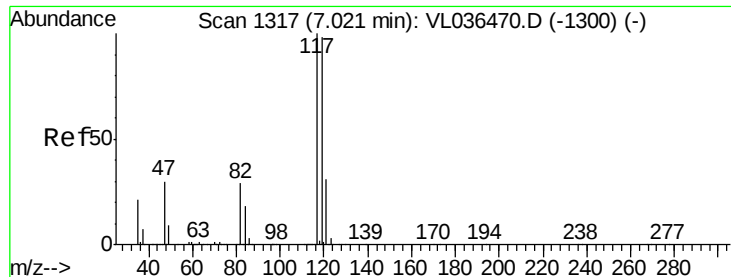
apatel
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#34
 2-Butanone
 Concen: 2.010 ppbv
 RT: 5.22 min Scan# 757
 Delta R.T. -0.03 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.0	25.6





#35

Carbon Tetrachloride

Concen: 0.051 ppbv m

RT: 7.00 min Scan# 1309

Delta R.T. -0.03 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

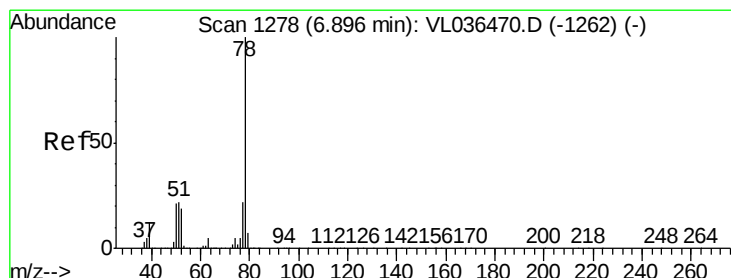
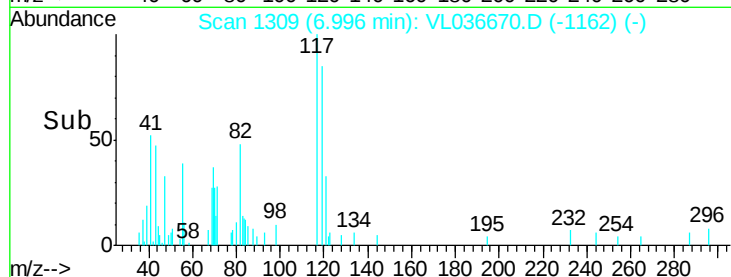
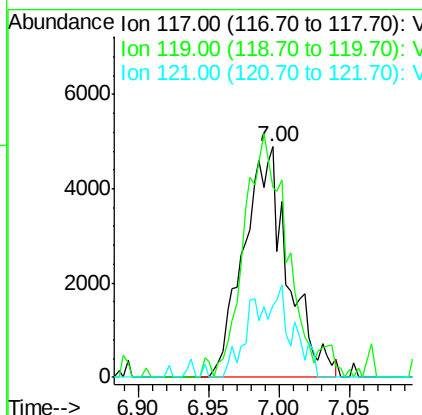
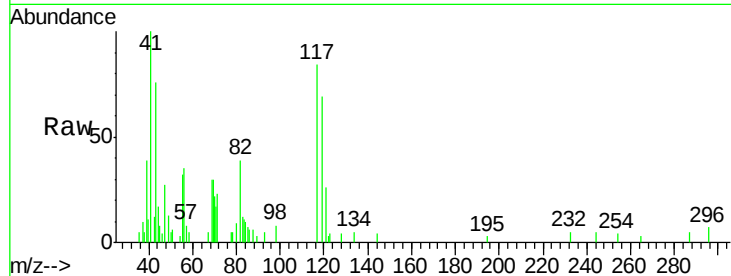
ClientSampleId :

SOFF-SG-03

Tot Ion:	117	Resp:	10754
Ion	Ratio	Lower	Upper
117	100		
119	82.2	78.2	117.2
121	31.5	24.5	36.7

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#36

Benzene

Concen: 0.895 ppbv

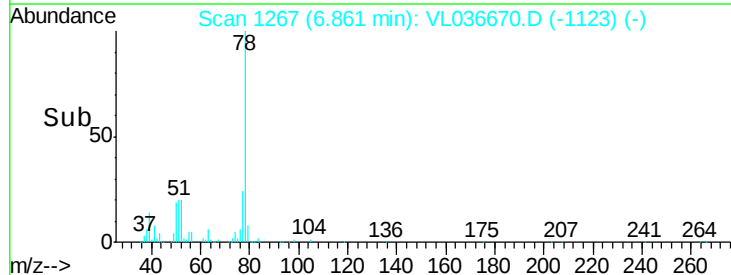
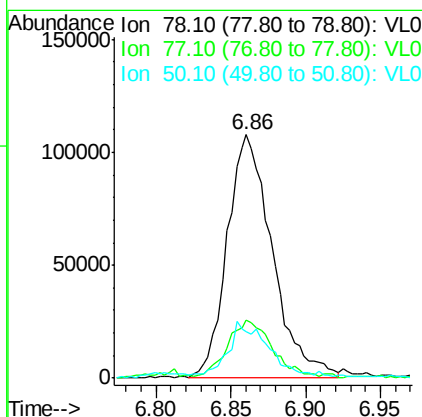
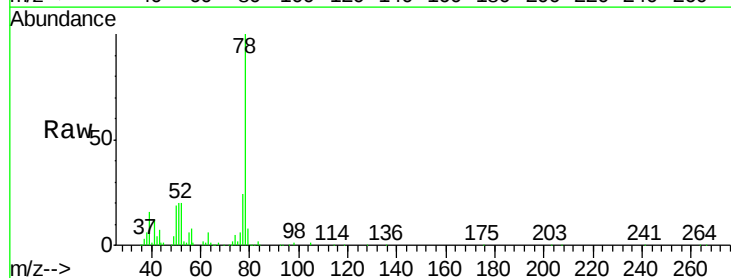
RT: 6.86 min Scan# 1267

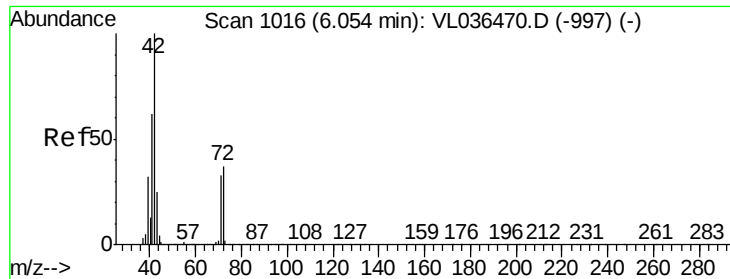
Delta R.T. -0.04 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Tgt Ion:	78	Resp:	224794
Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.0	27.0
50	18.3	16.5	24.7





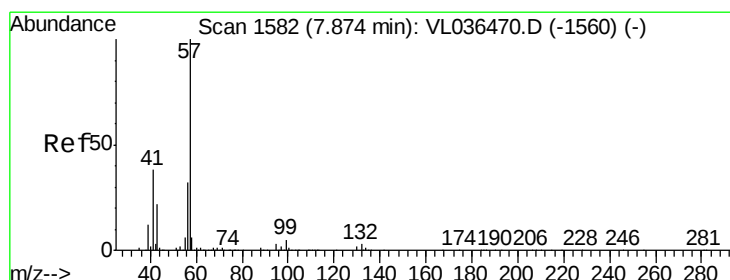
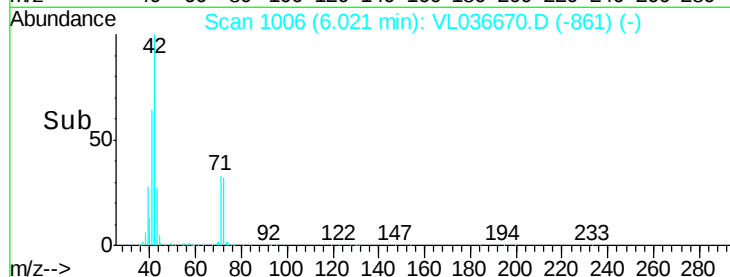
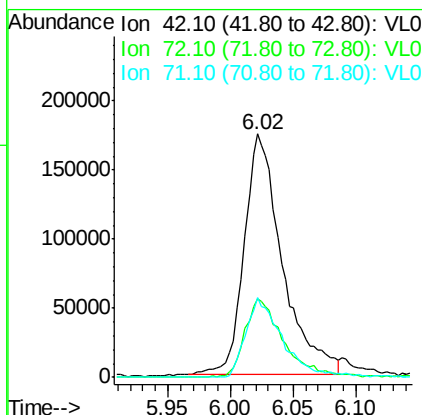
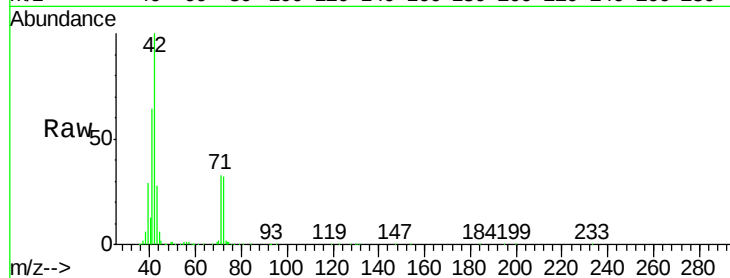
#41
Tetrahydrofuran
Concen: 6.040 ppbv
RT: 6.02 min Scan# 1006
Delta R.T. -0.03 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-03

Tot Ion	Ratio	Lower	Upper
42	100		
72	34.0	27.6	41.4
71	32.5	27.0	40.4

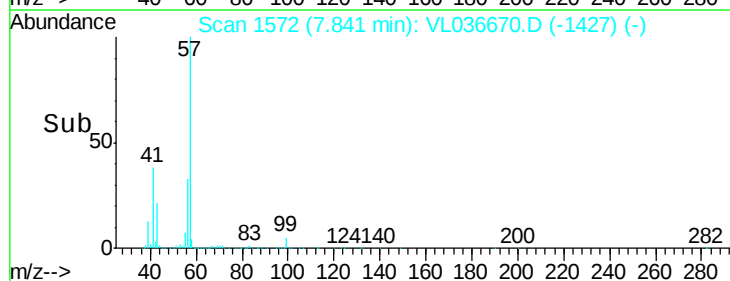
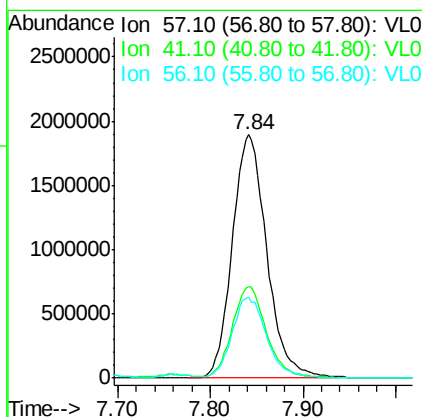
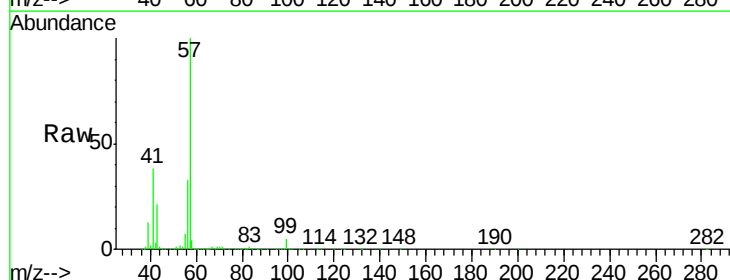
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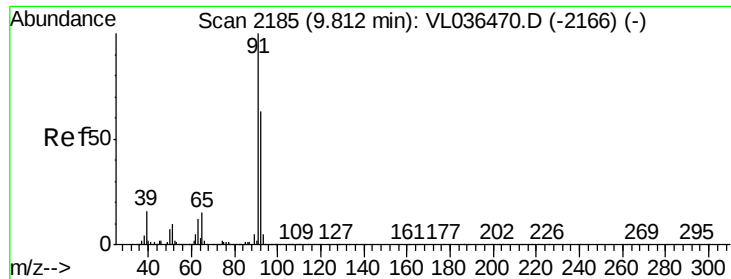
apatel
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#44
2,2,4-Trimethylpentane
Concen: 10.996 ppbv
RT: 7.84 min Scan# 1572
Delta R.T. -0.03 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	37.8	28.8	43.2
56	33.7	26.1	39.1





#53

Toluene

Concen: 5.423 ppbv

RT: 9.78 min Scan# 2174

Delta R.T. -0.04 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

Tot Ion: 91 Resp: 1450981

Ion Ratio Lower Upper

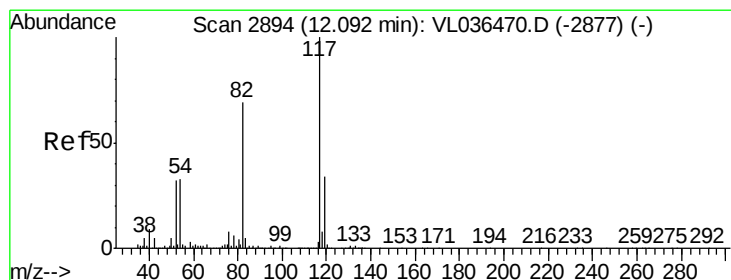
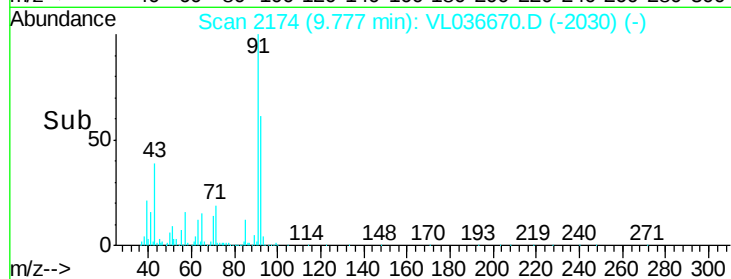
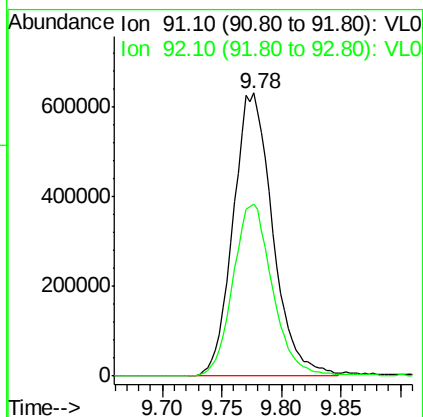
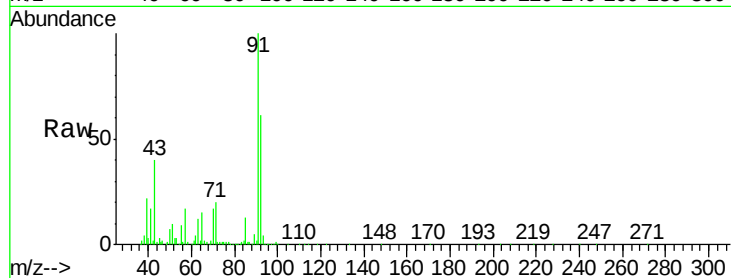
91 100

92 61.3 48.8 73.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2882

Delta R.T. -0.04 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

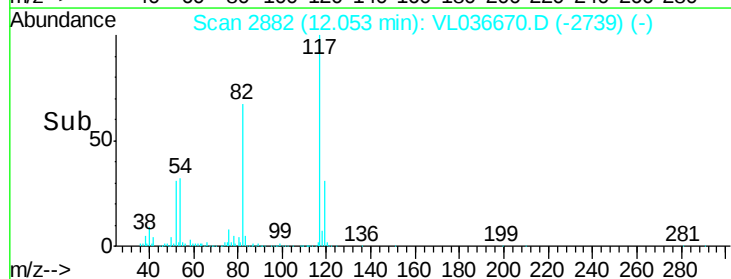
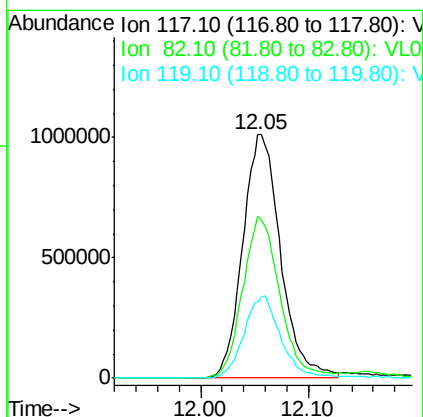
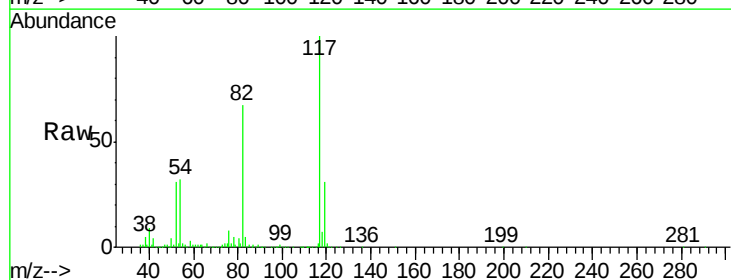
Tgt Ion: 117 Resp: 2467763

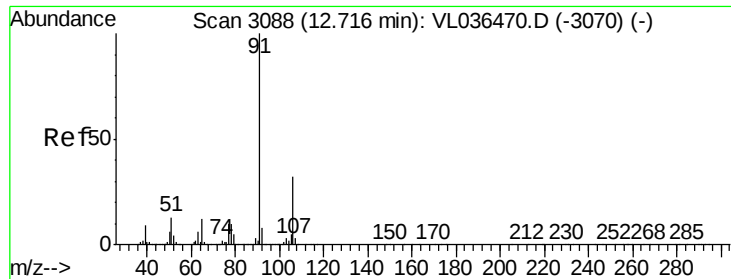
Ion Ratio Lower Upper

117 100

82 65.2 57.4 86.0

119 33.0 47.4 71.0#





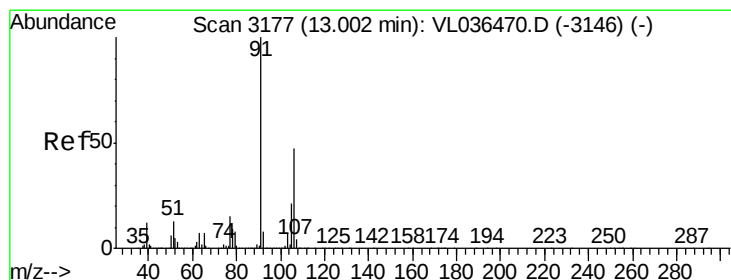
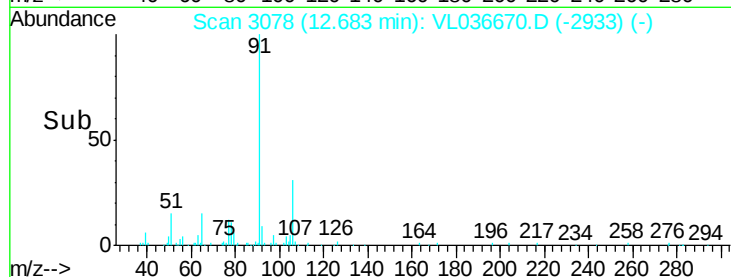
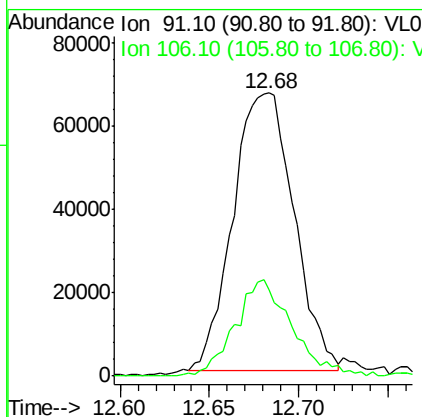
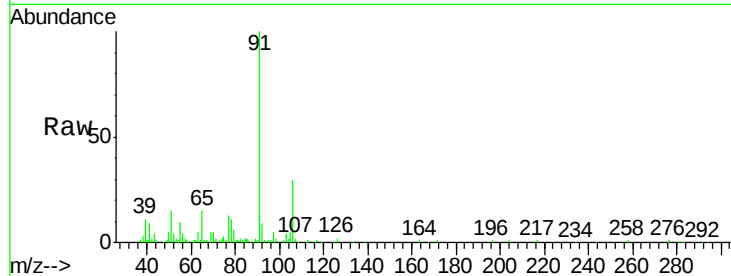
#58
Ethyl Benzene
Concen: 0.441 ppbv
RT: 12.68 min Scan# 3078
Delta R.T. -0.03 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Instrument :
MSVOA_L
ClientSampleId :
SOFF-SG-03

Tot Ion	Ratio	Lower	Upper
91	100		
106	29.8	25.3	37.9

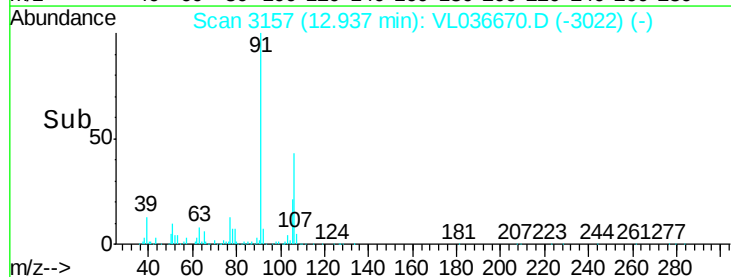
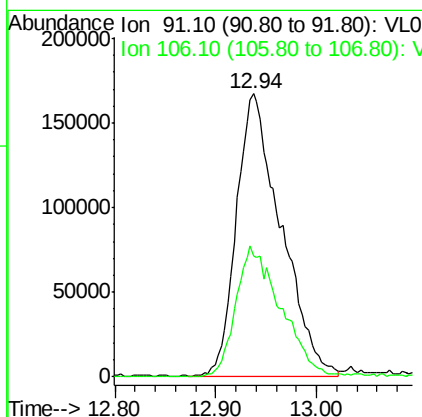
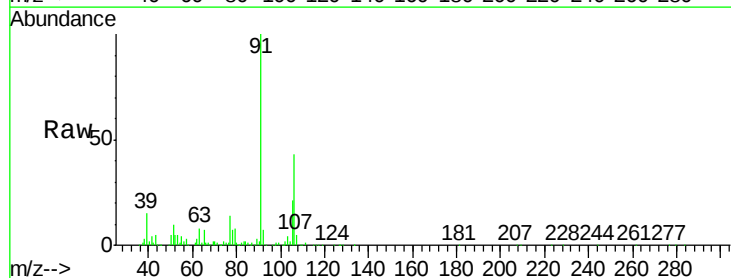
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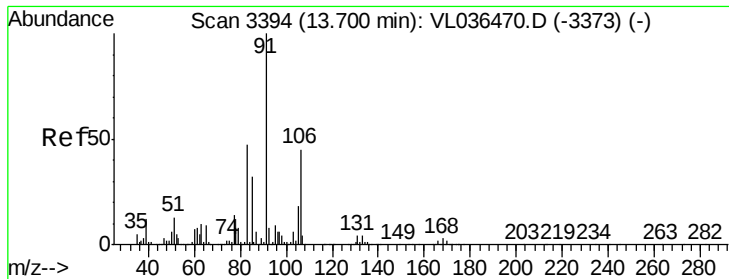
apatel
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#59
m/p-Xylene
Concen: 1.640 ppbv
RT: 12.94 min Scan# 3157
Delta R.T. -0.06 min
Lab File: VL036670.D
Acq: 3 Apr 2021 7:43

Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.2	35.3	52.9





#60

o-Xylene

Concen: 0.790 ppbv

RT: 13.66 min Scan# 3381

Delta R.T. -0.04 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampled :

SOFF-SG-03

Tot Ion: 91 Resp: 239339

Ion Ratio Lower Upper

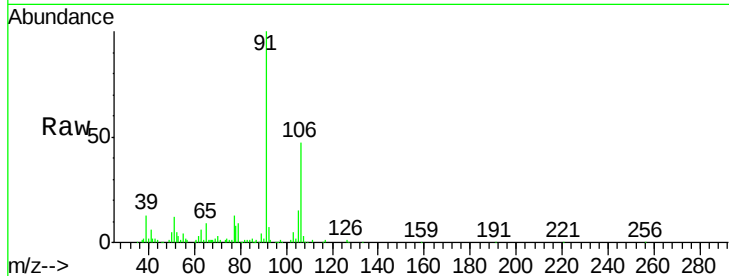
91 100

106 46.1 22.3 66.9

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

120000

100000

80000

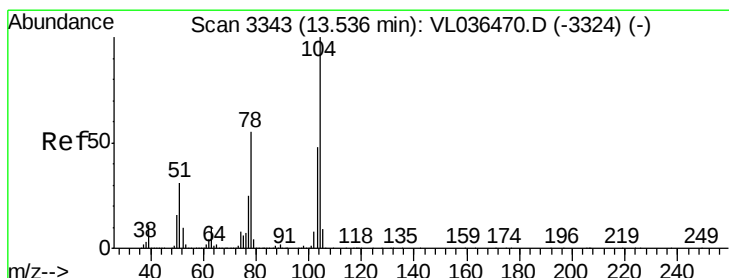
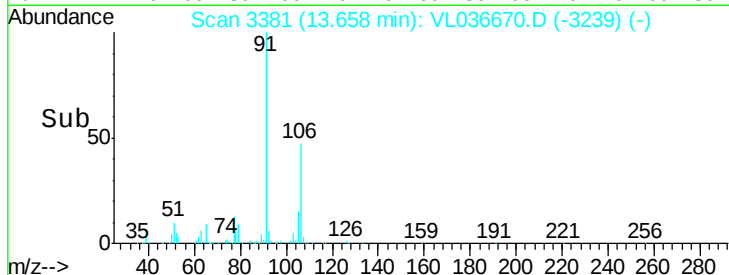
60000

40000

20000

0

Time-->



#61

Styrene

Concen: 0.127 ppbv m

RT: 13.49 min Scan# 3330

Delta R.T. -0.04 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

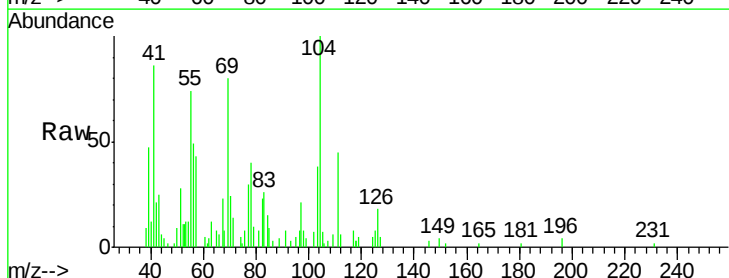
Tgt Ion: 104 Resp: 19300

Ion Ratio Lower Upper

104 100

78 0.0 43.8 65.8#

103 0.0 38.3 57.5#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

12000

10000

8000

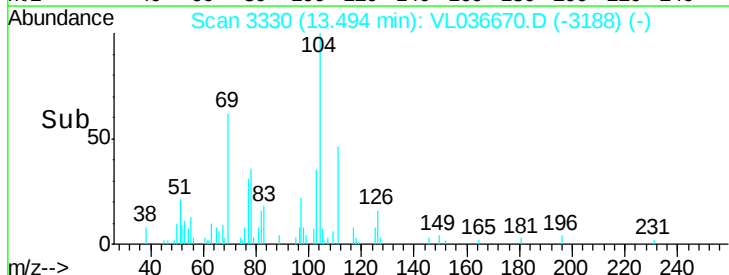
6000

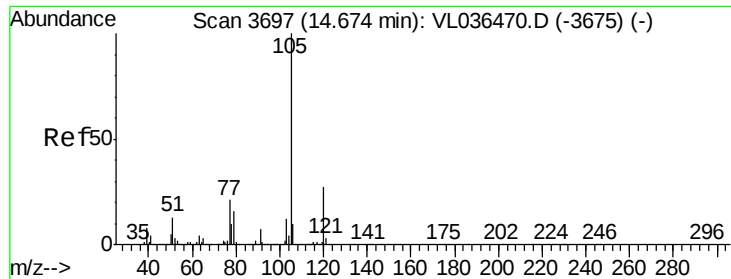
4000

2000

0

Time-->





#62

Isopropylbenzene

Concen: 0.252 ppbv m

RT: 14.63 min Scan# 3684

Delta R.T. -0.04 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

Tot Ion:105 Resp: 102610

Ion Ratio Lower Upper

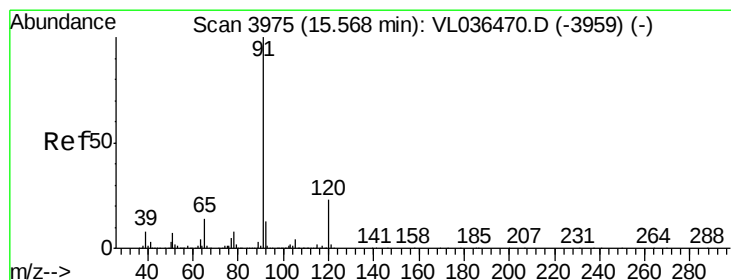
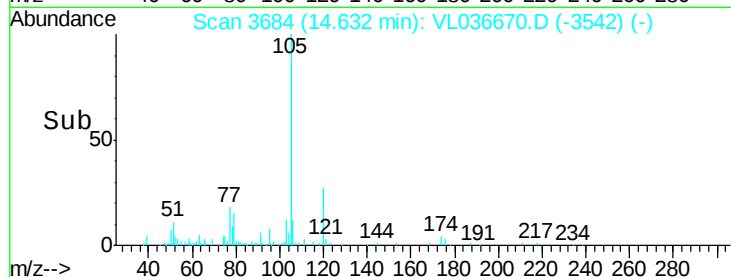
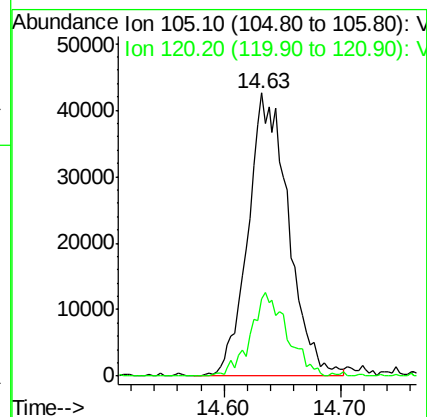
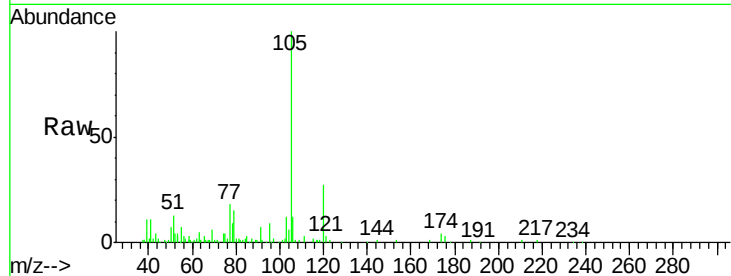
105 100

120 27.1 20.6 31.0

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#64

n-propylbenzene

Concen: 0.236 ppbv m

RT: 15.54 min Scan# 3965

Delta R.T. -0.03 min

Lab File: VL036670.D

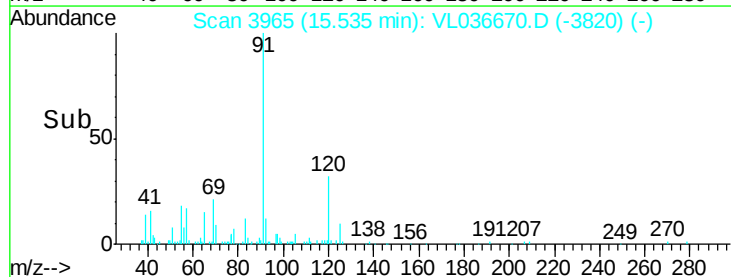
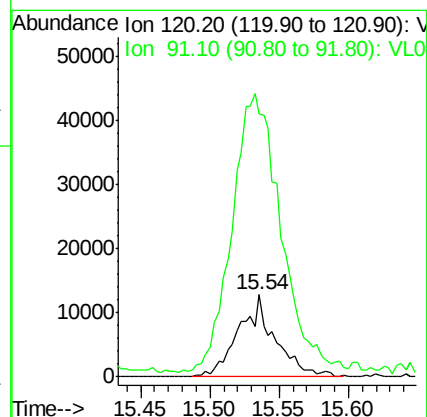
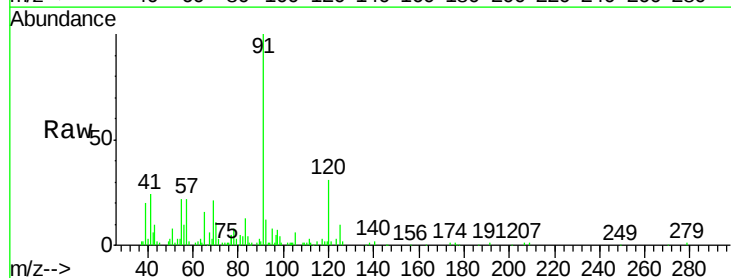
Acq: 3 Apr 2021 7:43

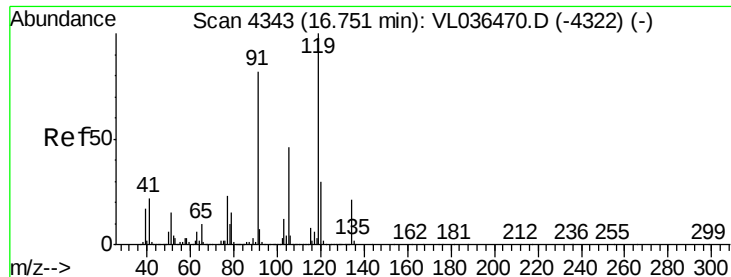
Tgt Ion:120 Resp: 23545

Ion Ratio Lower Upper

120 100

91 469.2 377.4 566.2





#65

tert-Butylbenzene

Concen: 0.143 ppbv

RT: 16.73 min Scan# 4337

Delta R.T. -0.02 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

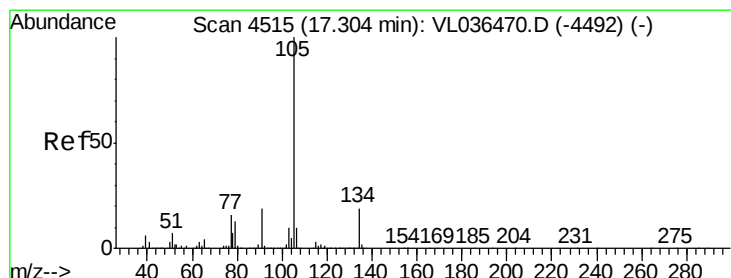
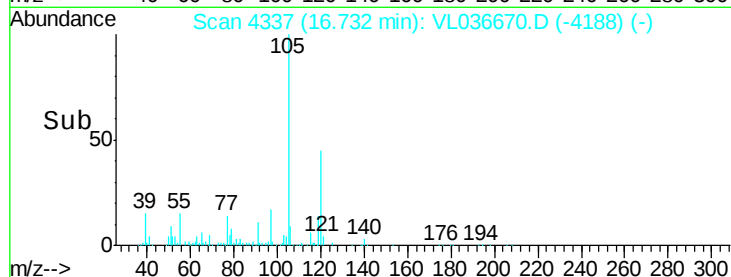
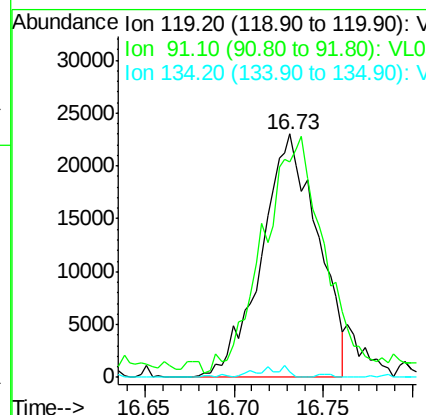
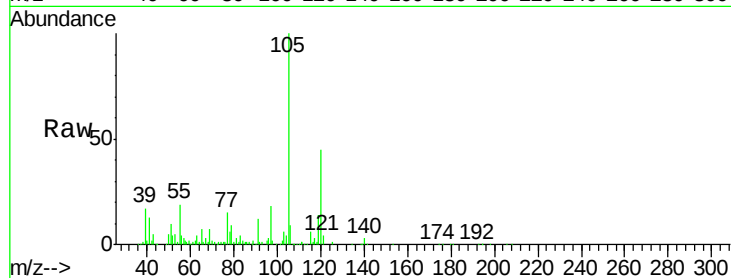
ClientSampleId :

SOFF-SG-03

Tot Ion	Ratio	Lower	Upper
119	100		
91	107.8	67.5	101.3#
134	2.7	15.8	23.8#

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#67

sec-Butylbenzene

Concen: 0.103 ppbv m

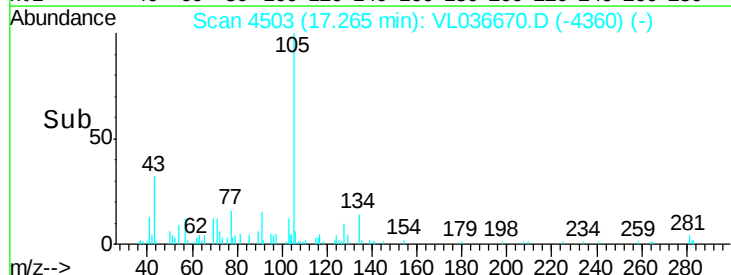
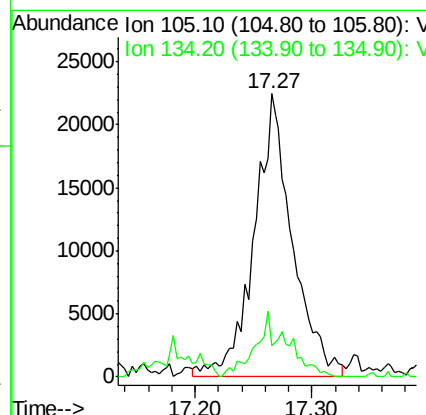
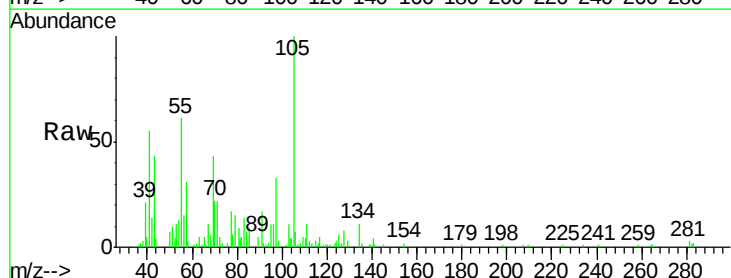
RT: 17.27 min Scan# 4503

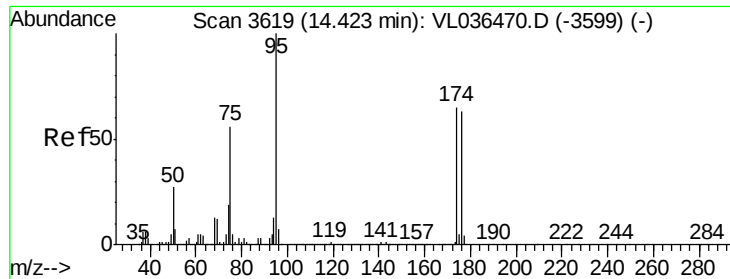
Delta R.T. -0.04 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Tgt Ion	Ratio	Lower	Upper
105	100		
134	27.4	14.7	22.1#





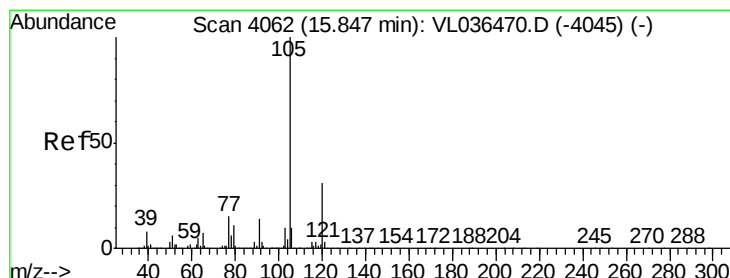
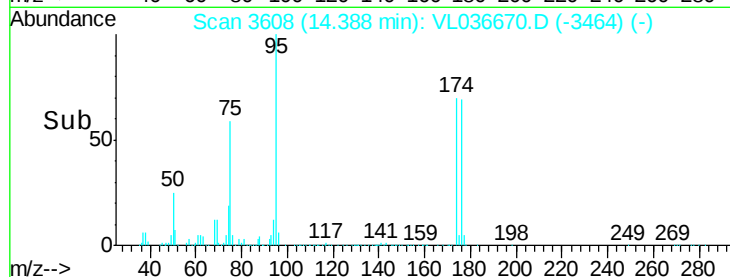
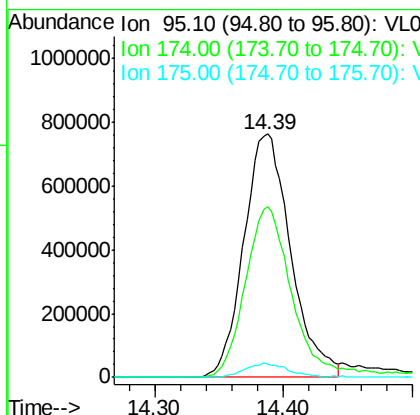
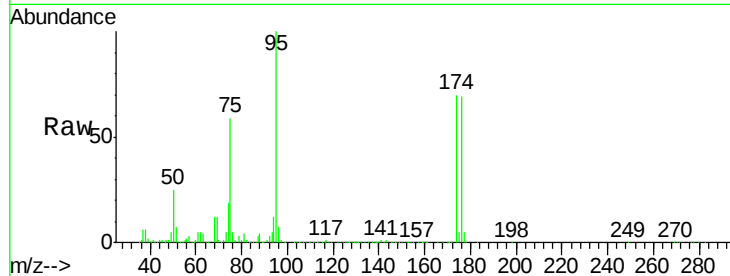
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.815 ppbv
 RT: 14.39 min Scan# 3608
 Delta R.T. -0.04 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

Instrument :
 MSVOA_L
 ClientSampleId :
 SOFF-SG-03

Tot Ion: 95 Resp: 1930432
 Ion Ratio Lower Upper
 95 100
 174 73.4 51.0 76.6
 175 5.6 3.9 5.9

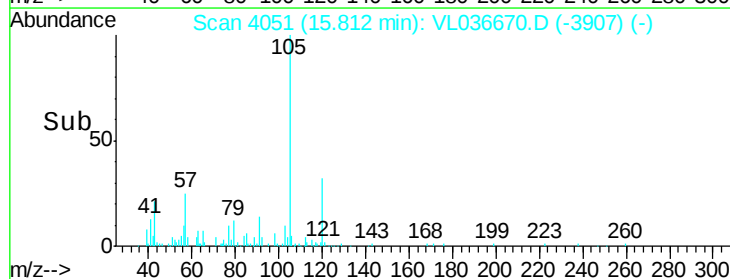
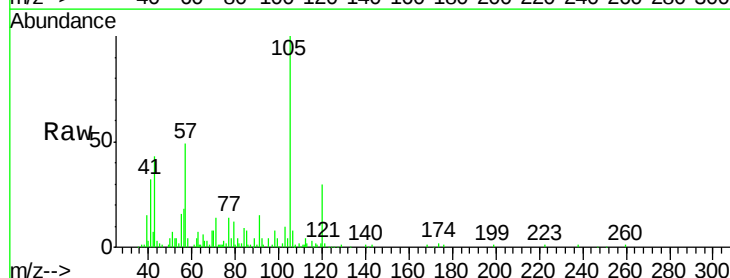
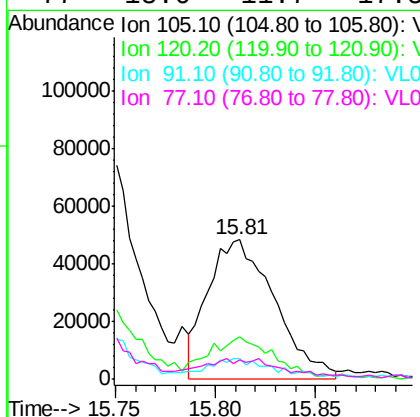
Manual Integrations
 APPROVED

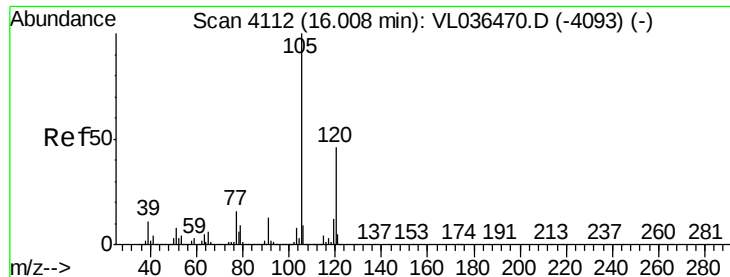
apatel
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#72
 4-Ethyltoluene
 Concen: 0.340 ppbv m
 RT: 15.81 min Scan# 4051
 Delta R.T. -0.04 min
 Lab File: VL036670.D
 Acq: 3 Apr 2021 7:43

Tgt Ion: 105 Resp: 112770
 Ion Ratio Lower Upper
 105 100
 120 30.6 24.0 36.0
 91 12.5 11.0 16.4
 77 18.6 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.385 ppbv

RT: 15.97 min Scan# 4100

Delta R.T. -0.04 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampled :

SOFF-SG-03

Tot Ion:105 Resp: 119173

Ion Ratio Lower Upper

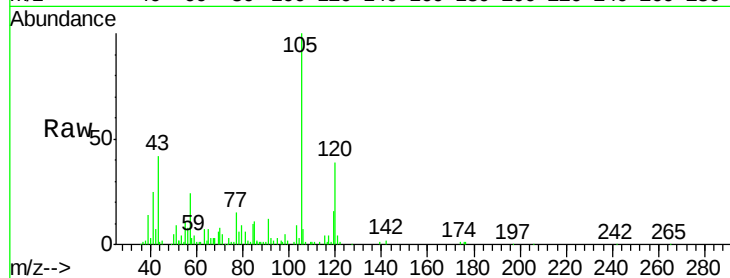
105 100

120 39.0 36.6 54.8

Manual Integrations
APPROVED

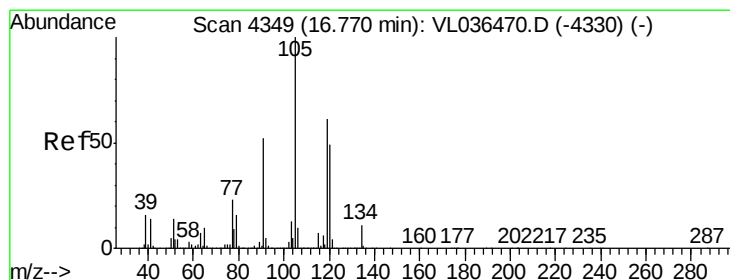
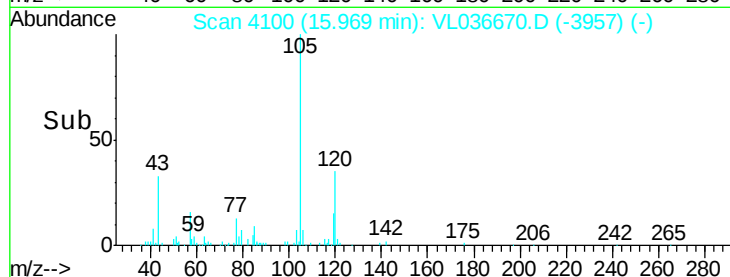
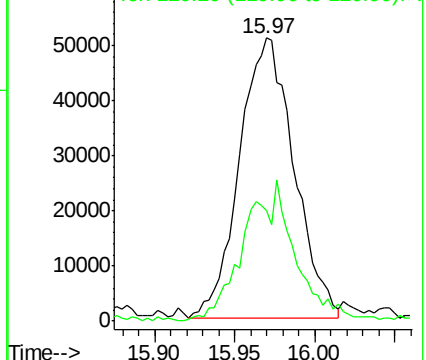
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.258 ppbv

RT: 16.73 min Scan# 4337

Delta R.T. -0.04 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Tgt Ion:105 Resp: 416764

Ion Ratio Lower Upper

105 100

120 44.4 39.2 58.8

91 11.5 42.6 64.0#

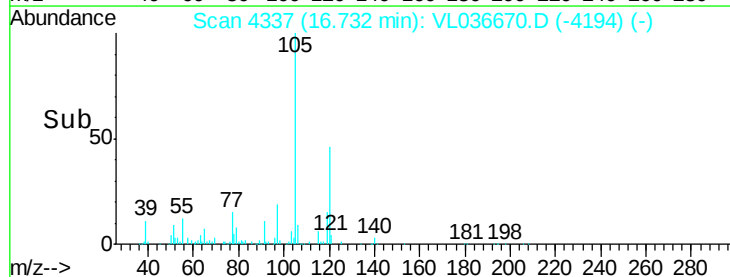
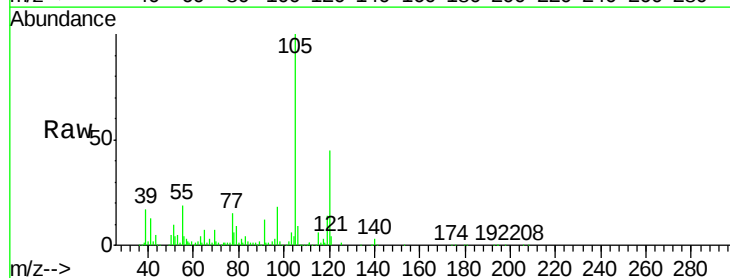
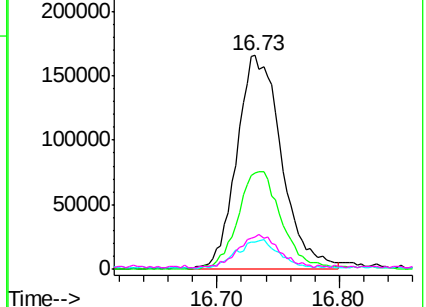
77 14.5 18.6 28.0#

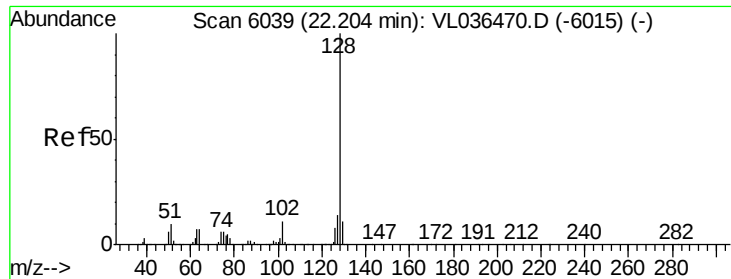
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#79

Naphthalene

Concen: 0.277 ppbv m

RT: 22.17 min Scan# 6029

Delta R.T. -0.03 min

Lab File: VL036670.D

Acq: 3 Apr 2021 7:43

Instrument :

MSVOA_L

ClientSampleId :

SOFF-SG-03

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	14.1	10.9	16.3
129	13.8	9.0	13.4

Manual Integrations
APPROVED

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