

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
 Data File : VL040031.D
 Acq On : 19 Dec 2022 16:52
 Operator : SY/MD
 Sample : N6059-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

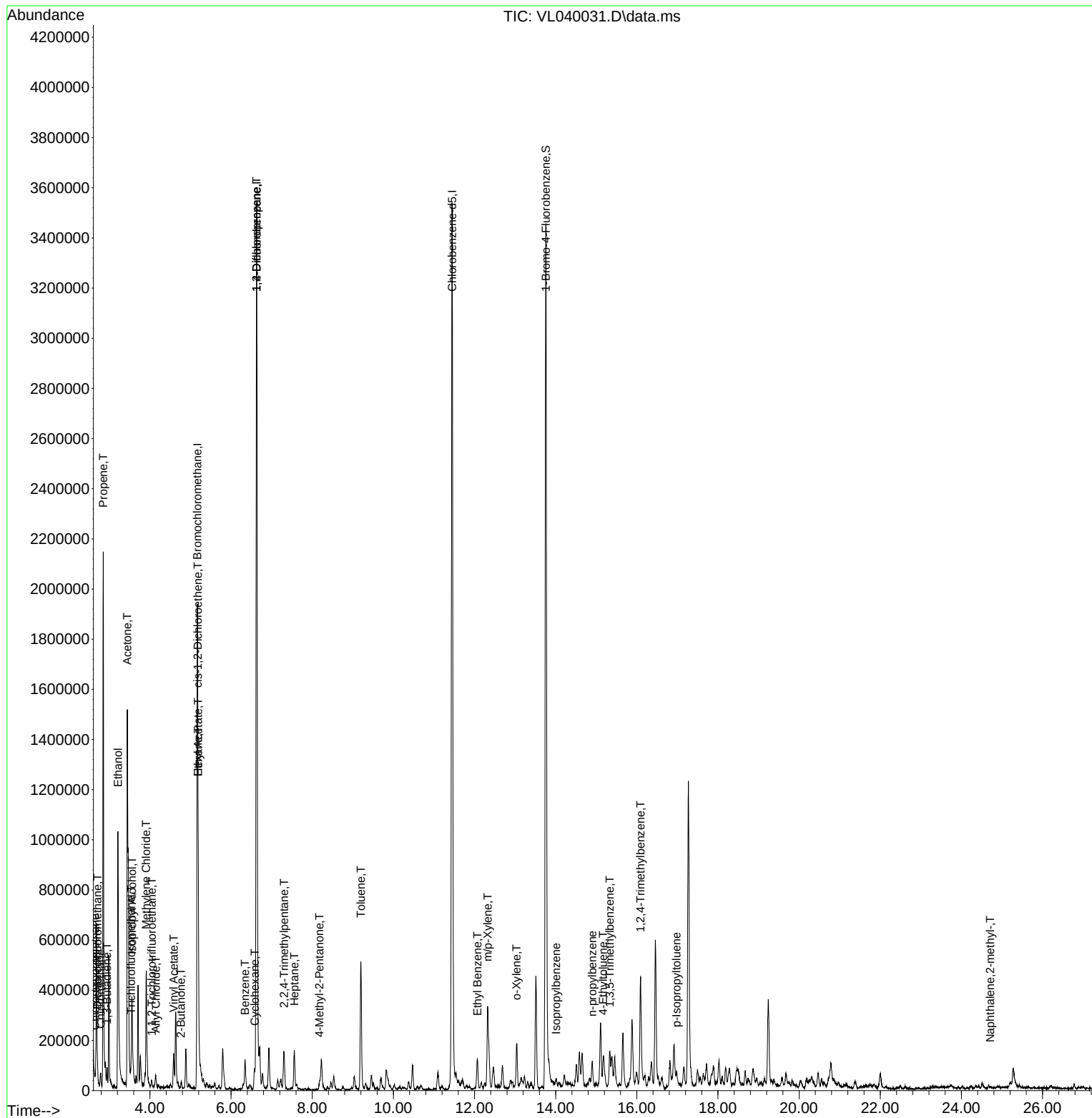
Quant Time: Dec 20 05:13:26 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Dec 20 04:50:21 2022
 Response via : Initial Calibration

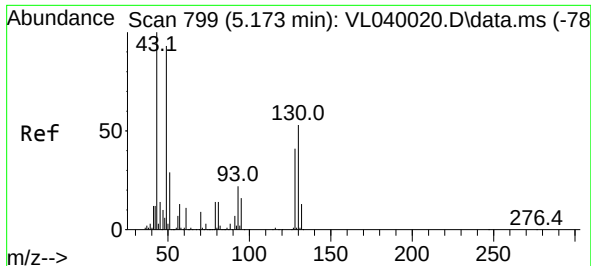
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.169	49	913679	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	2791858	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.446	117	2402009	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1791887	9.766	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.703	85	40506	0.237	ppbv	92
3) Chlorodifluoromethane	2.652	51	27973	0.208	ppbv	93
4) Chloromethane	2.787	50	33718	0.399	ppbv	96
9) Propene	2.848	41	587407	10.268	ppbv	98
10) Heptane	7.558	43	65573	0.470	ppbv	94
11) Trichlorofluoromethane	3.536	101	37246	0.200	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.044	101	10145	0.072	ppbv	92
13) Ethanol	3.211	45	1147220	213.063	ppbv	96
15) Acetone	3.443	43	1716730	12.146	ppbv	95
16) 1,3-Butadiene	2.941	39	11798	0.192	ppbv #	41
19) Isopropyl Alcohol	3.558	45	389176	5.587	ppbv #	1
20) Methylene Chloride	3.909	84	147575	2.456	ppbv	94
21) Allyl Chloride	4.147	41	9999	0.118	ppbv	96
23) Vinyl Acetate	4.587	43	60046	1.340	ppbv #	1
25) Ethyl Acetate	5.189	43	240168	0.981	ppbv #	90
26) Hexane	5.189	57	212073	2.061	ppbv #	54
30) Cyclohexane	6.584	84	11320	0.124	ppbv #	1
31) cis-1,2-Dichloroethene	5.182	61	13540	0.138	ppbv #	28
34) 2-Butanone	4.767	43	11127	0.073	ppbv #	20
36) Benzene	6.343	78	92065	0.369	ppbv	98
39) 1,2-Dichloropropane	6.626	63	678544	7.260	ppbv #	23
44) 2,2,4-Trimethylpentane	7.308	57	120116	0.293	ppbv #	78
50) 4-Methyl-2-Pentanone	8.179	43	8941	0.036	ppbv #	65
53) Toluene	9.201	91	385840	1.398	ppbv	98
58) Ethyl Benzene	12.073	91	107680	0.316	ppbv	98
59) m/p-Xylene	12.323	91	323404	1.088	ppbv	94
60) o-Xylene	13.037	91	76942	0.270	ppbv #	39
62) Isopropylbenzene	14.015	105	22411	0.055	ppbv	93
64) n-propylbenzene	14.902	120	18151	0.175	ppbv	88
69) p-Isopropyltoluene	16.979	119	22002	0.055	ppbv #	74
72) 4-Ethyltoluene	15.169	105	38902	0.123	ppbv #	48
73) 1,3,5-Trimethylbenzene	15.333	105	93152	0.327	ppbv	93
74) 1,2,4-Trimethylbenzene	16.092	105	318112	1.012	ppbv #	67
80) Naphthalene,2-methyl-	24.712	142	3212	0.056	ppbv	86

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

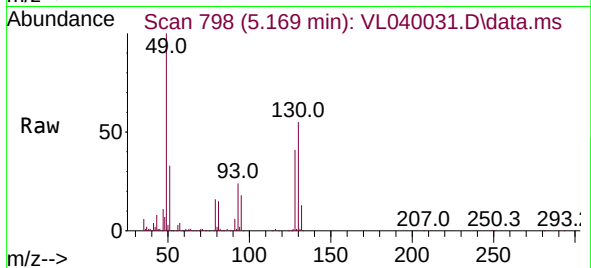
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Dec 20 04:50:21 2022
Response via : Initial Calibration



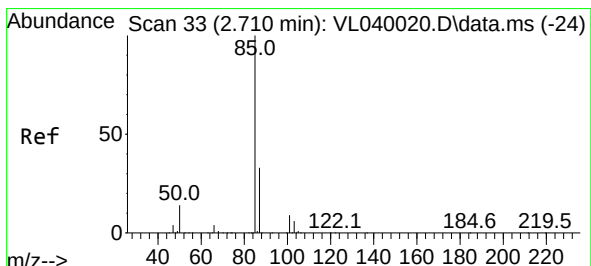
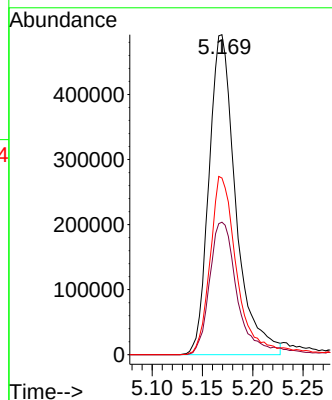
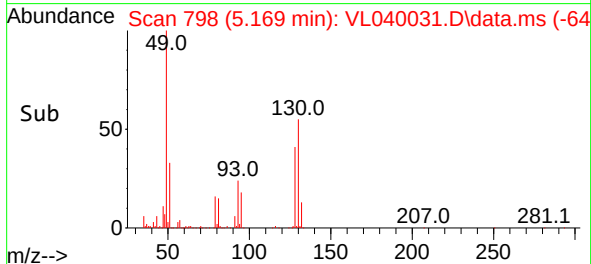


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.169 min Scan# 799
 Delta R.T. -0.004 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

Instrument :
 MSVOA_L
 ClientSampleId :

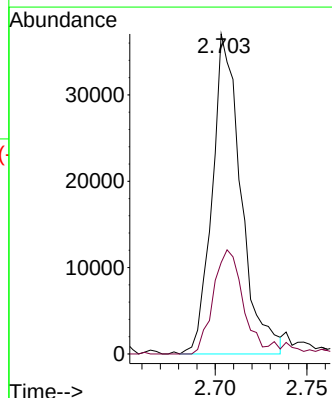
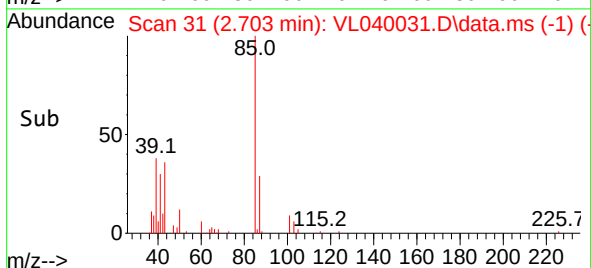
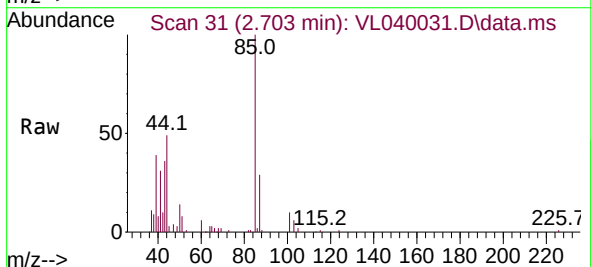


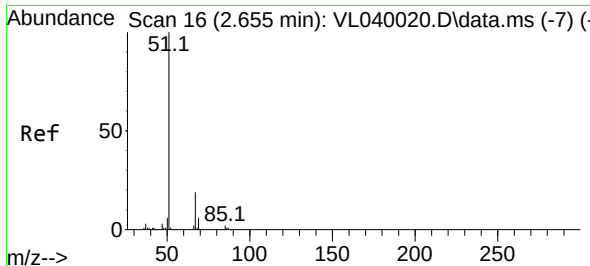
Tgt Ion: 49 Resp: 913679
 Ion Ratio Lower Upper
 49 100
 128 44.4 22.4 67.3
 130 58.1 28.9 86.8



#2
 Dichlorodifluoromethane
 Concen: 0.237 ppbv
 RT: 2.703 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

Tgt Ion: 85 Resp: 40506
 Ion Ratio Lower Upper
 85 100
 87 28.5 26.6 40.0

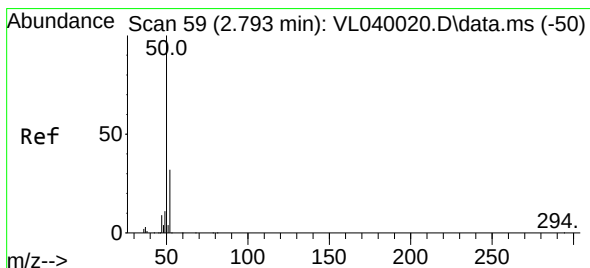
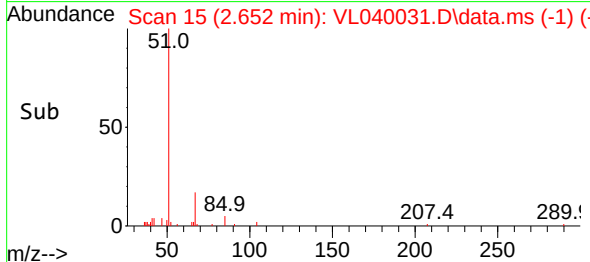
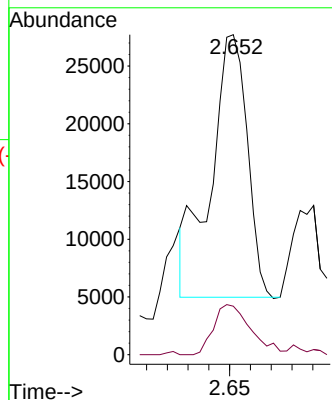
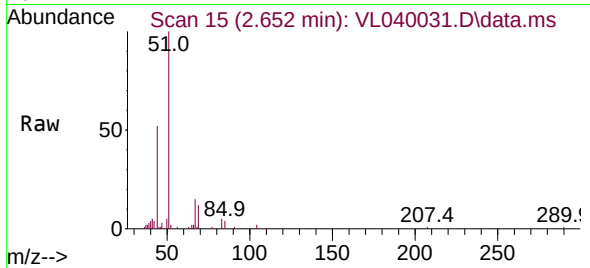




#3
Chlorodifluoromethane
Concen: 0.208 ppbv
RT: 2.652 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

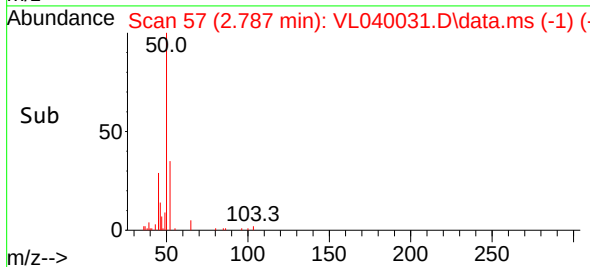
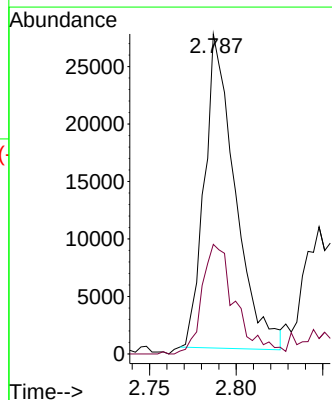
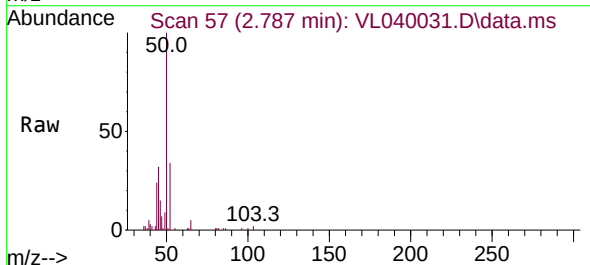
Instrument :
MSVOA_L
ClientSampleId :

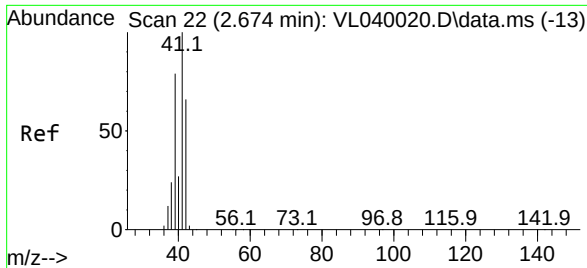
Tgt Ion: 51 Resp: 27973
Ion Ratio Lower Upper
51 100
67 22.3 15.3 22.9



#4
Chloromethane
Concen: 0.399 ppbv
RT: 2.787 min Scan# 57
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Tgt Ion: 50 Resp: 33718
Ion Ratio Lower Upper
50 100
52 34.3 25.5 38.3

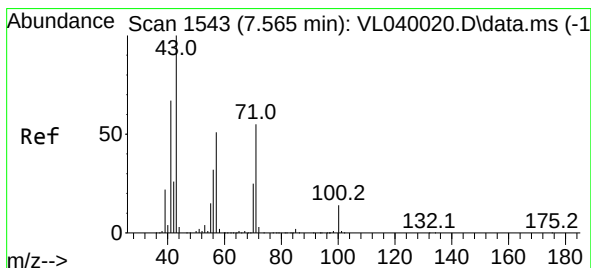
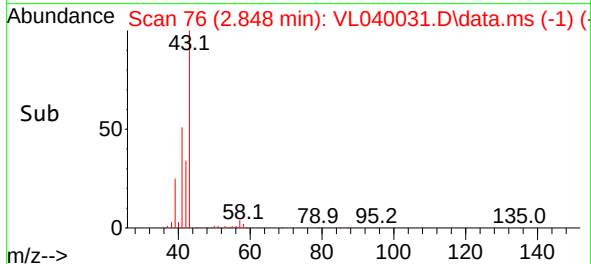
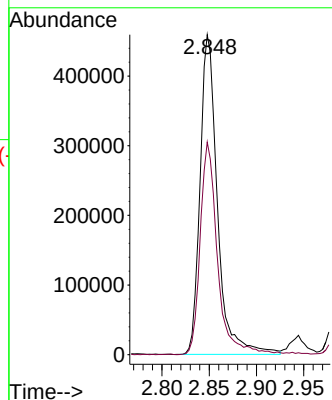
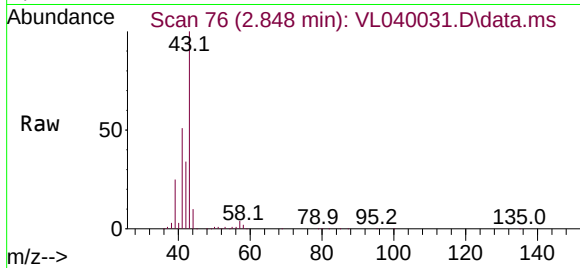




#9
 Propene
 Concen: 10.268 ppbv
 RT: 2.848 min Scan# 70
 Delta R.T. 0.174 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

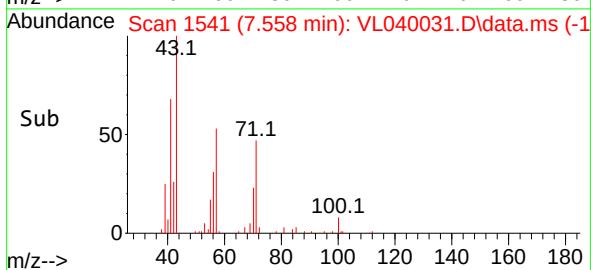
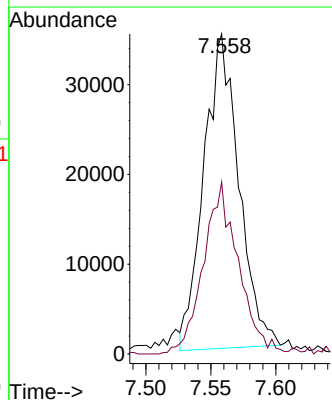
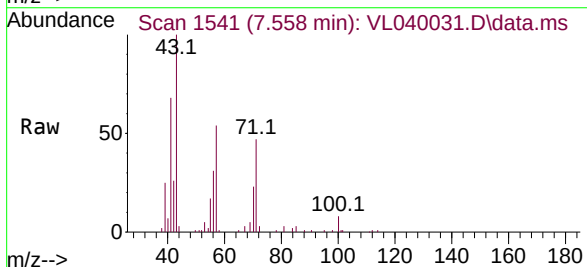
Instrument :
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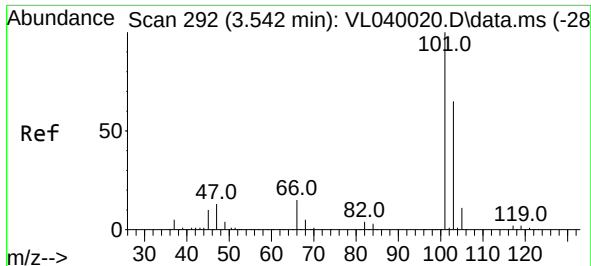
Tgt Ion: 41 Resp: 587407
 Ion Ratio Lower Upper
 41 100
 42 67.0 54.8 82.2



#10
 Heptane
 Concen: 0.470 ppbv
 RT: 7.558 min Scan# 1541
 Delta R.T. -0.006 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

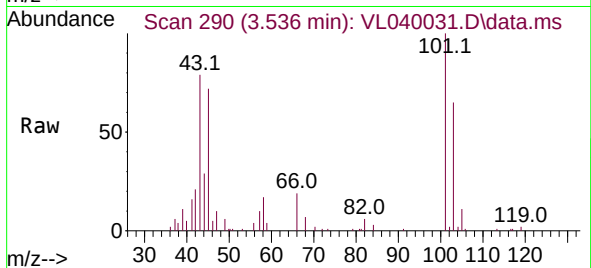
Tgt Ion: 43 Resp: 65573
 Ion Ratio Lower Upper
 43 100
 57 55.4 41.2 61.8



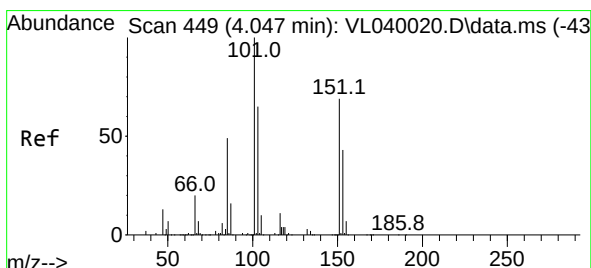
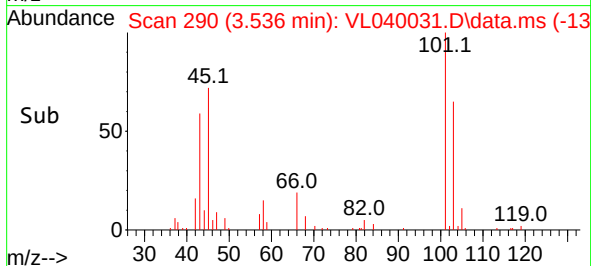
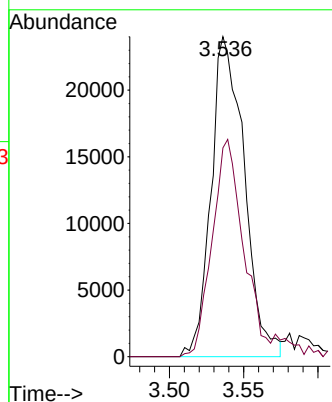


#11
 Trichlorofluoromethane
 Concen: 0.200 ppbv
 RT: 3.536 min Scan# 292
 Delta R.T. -0.006 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

Instrument :
 MSVOA_L
 ClientSampleId :

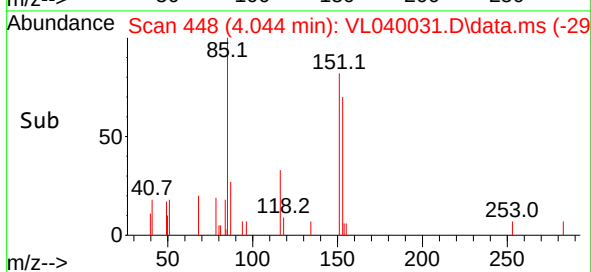
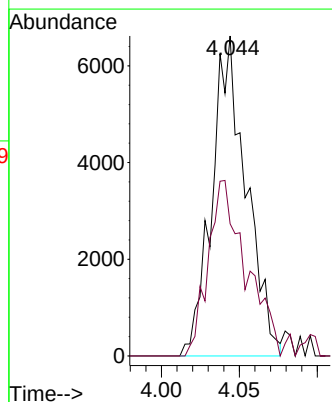
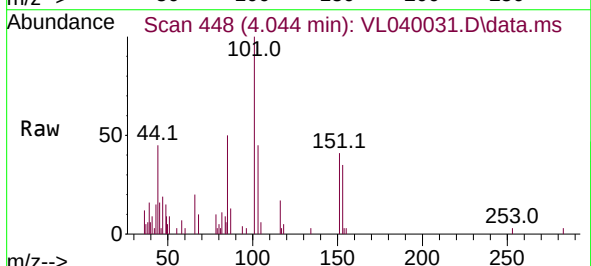


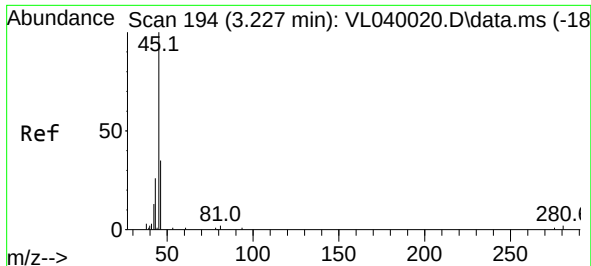
Tgt Ion:101 Resp: 37246
 Ion Ratio Lower Upper
 101 100
 103 65.3 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.072 ppbv
 RT: 4.044 min Scan# 448
 Delta R.T. -0.003 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

Tgt Ion:101 Resp: 10145
 Ion Ratio Lower Upper
 101 100
 151 62.0 55.0 82.4





#13

Ethanol

Concen: 213.063 ppbv

RT: 3.211 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

Instrument :

MSVOA_L

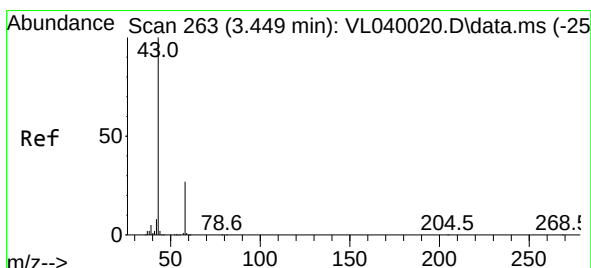
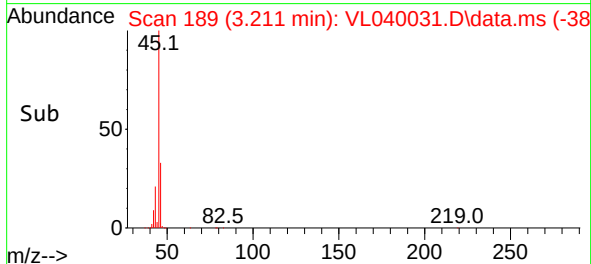
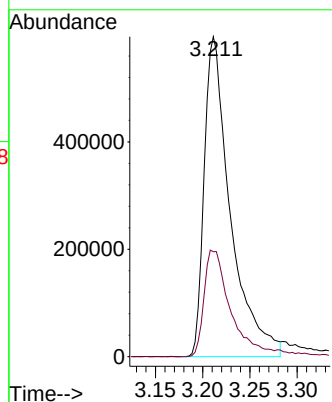
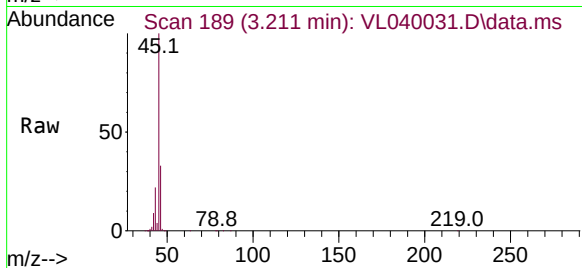
ClientSampleId :

Tgt Ion: 45 Resp: 1147220

Ion Ratio Lower Upper

45 100

46 36.4 13.7 54.7



#15

Acetone

Concen: 12.146 ppbv

RT: 3.443 min Scan# 261

Delta R.T. -0.006 min

Lab File: VL040031.D

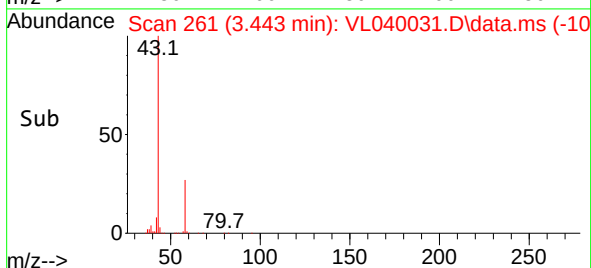
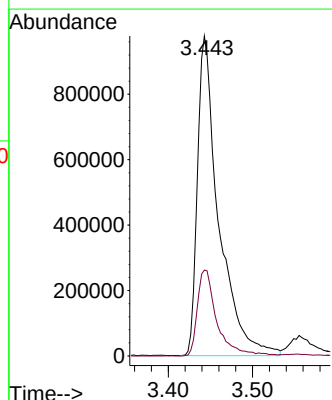
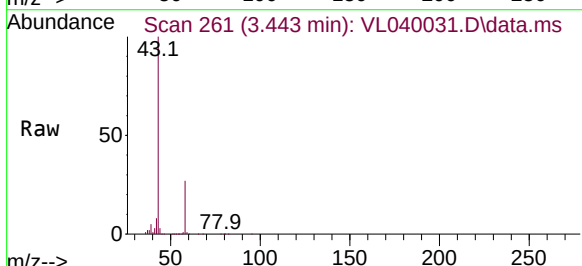
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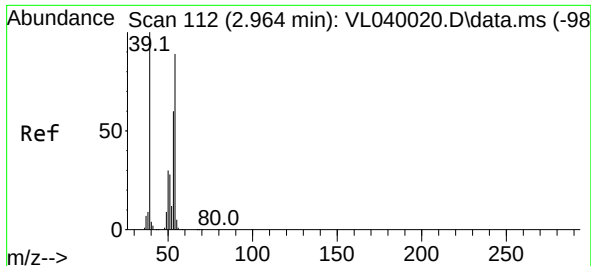
Tgt Ion: 43 Resp: 1716730

Ion Ratio Lower Upper

43 100

58 24.8 21.8 32.8





#16

1,3-Butadiene

Concen: 0.192 ppbv

RT: 2.941 min Scan# 112

Delta R.T. -0.022 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

Instrument :

MSVOA_L

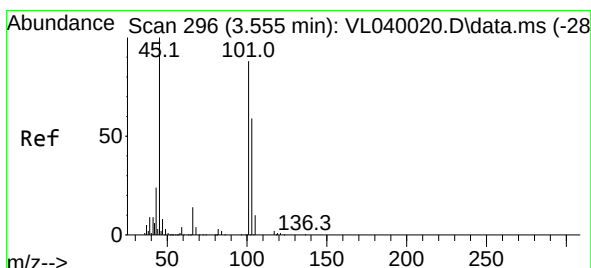
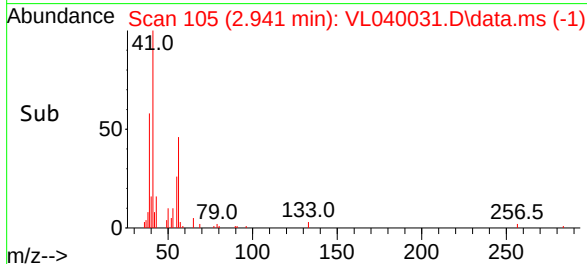
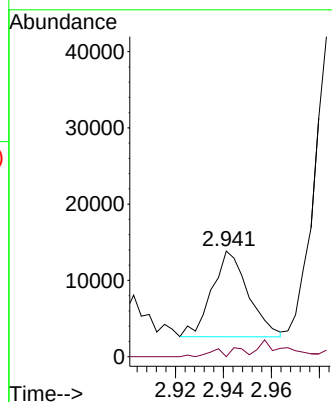
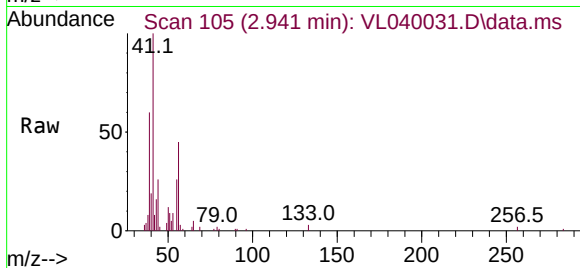
ClientSampleId :

Tgt Ion: 39 Resp: 11798

Ion Ratio Lower Upper

39 100

54 31.9 68.3 102.5#



#19

Isopropyl Alcohol

Concen: 5.587 ppbv

RT: 3.558 min Scan# 297

Delta R.T. 0.003 min

Lab File: VL040031.D

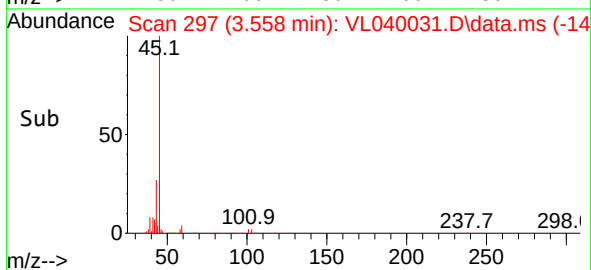
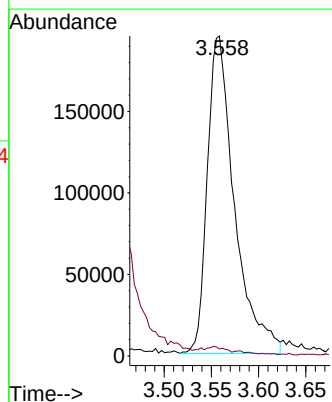
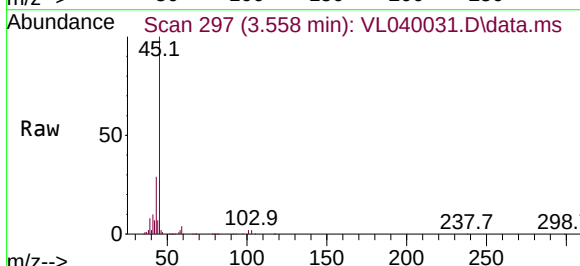
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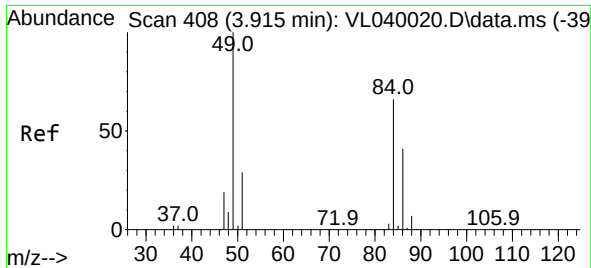
Tgt Ion: 45 Resp: 389176

Ion Ratio Lower Upper

45 100

58 109.5 1.7 2.5#

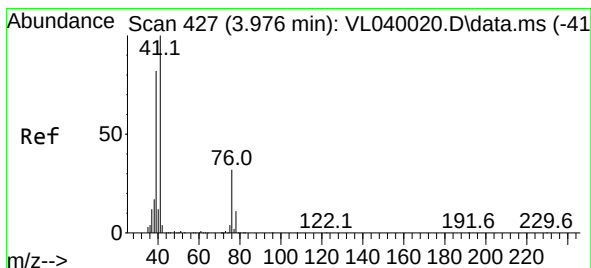
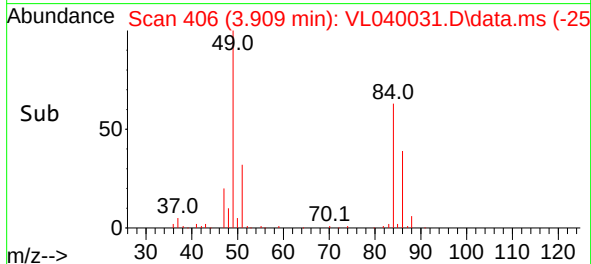
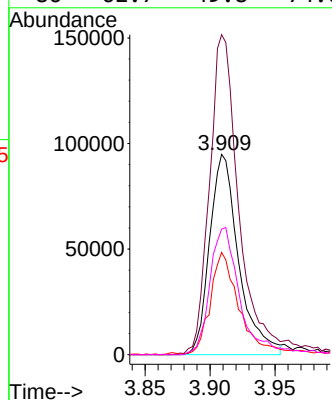
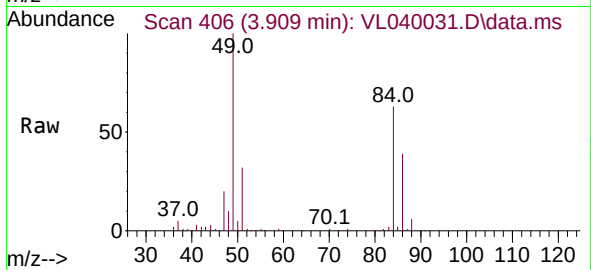




#20
Methylene Chloride
Concen: 2.456 ppbv
RT: 3.909 min Scan# 40
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

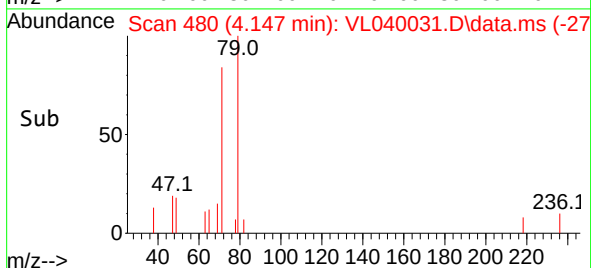
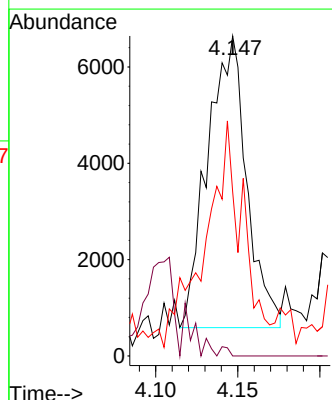
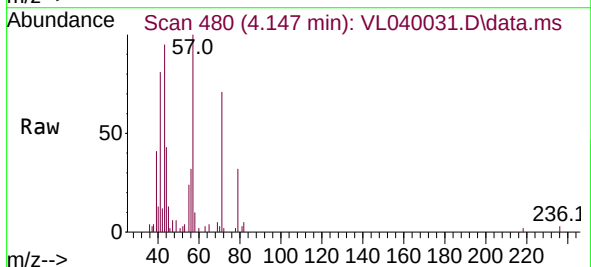
Instrument :
MSVOA_L
ClientSampleId :

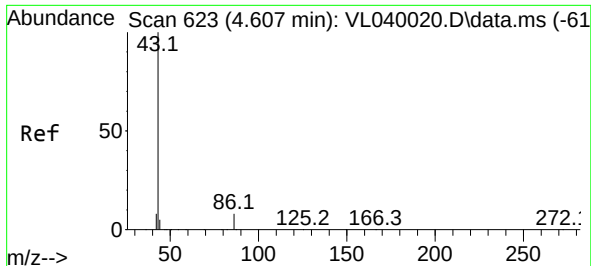
Tgt Ion: 84 Resp: 147575
Ion Ratio Lower Upper
84 100
49 159.0 120.5 180.7
51 50.7 35.2 52.8
86 62.7 49.8 74.6



#21
Allyl Chloride
Concen: 0.118 ppbv
RT: 4.147 min Scan# 480
Delta R.T. 0.170 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Tgt Ion: 41 Resp: 9999
Ion Ratio Lower Upper
41 100
76 30.4 25.9 38.9
39 79.1 66.0 99.0

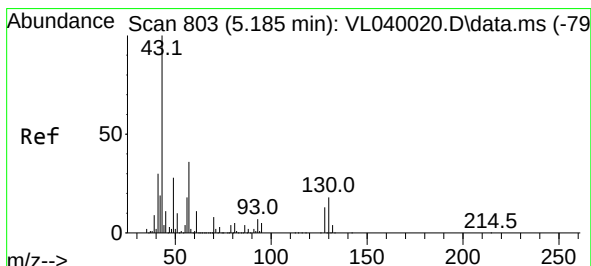
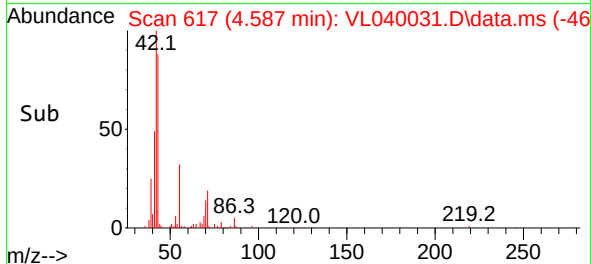
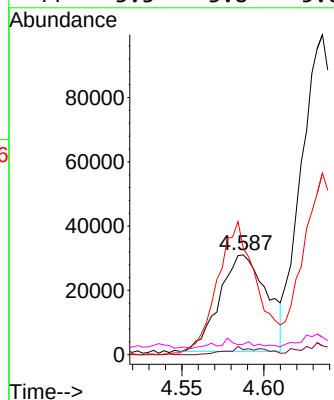
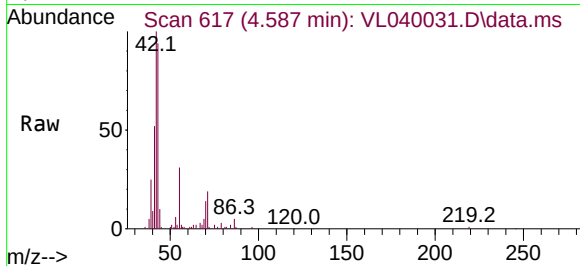




#23
 Vinyl Acetate
 Concen: 1.340 ppbv
 RT: 4.587 min Scan# 617
 Delta R.T. -0.019 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

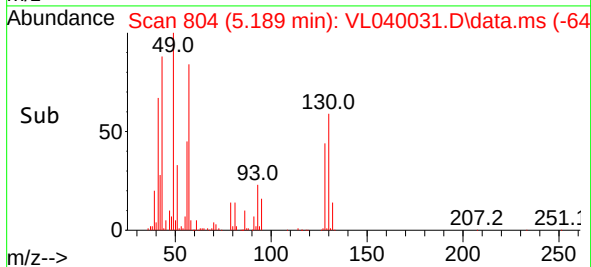
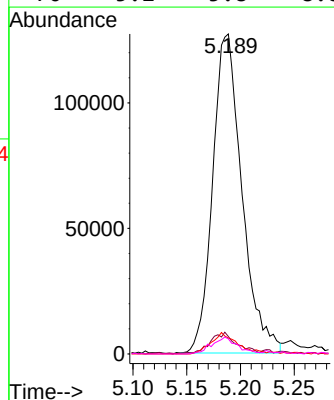
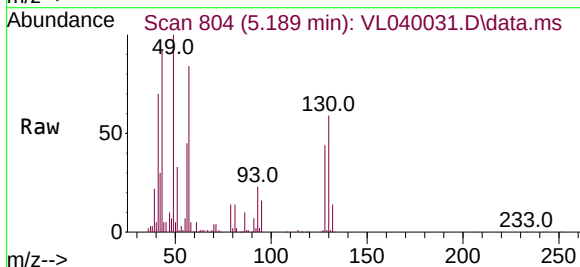
Instrument :
 MSVOA_L
 ClientSampleId :

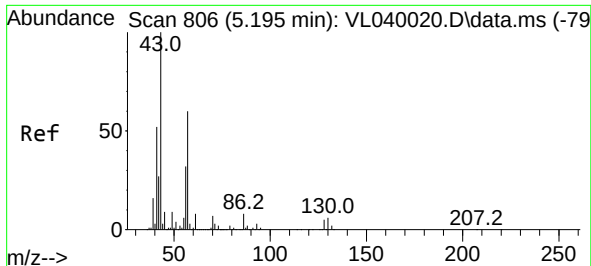
Tgt Ion: 43 Resp: 60046
 Ion Ratio Lower Upper
 43 100
 86 5.2 5.3 7.9#
 42 108.9 7.4 11.0#
 44 3.3 3.8 5.6#



#25
 Ethyl Acetate
 Concen: 0.981 ppbv
 RT: 5.189 min Scan# 804
 Delta R.T. 0.003 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

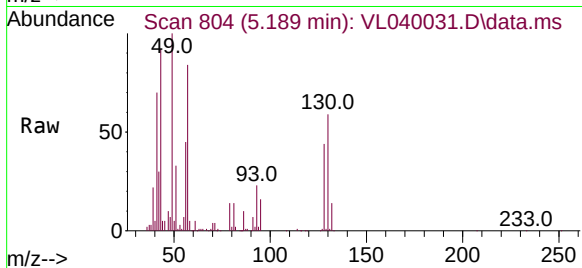
Tgt Ion: 43 Resp: 240168
 Ion Ratio Lower Upper
 43 100
 45 6.6 8.6 12.8#
 61 6.6 8.5 12.7#
 70 5.2 5.8 8.8#



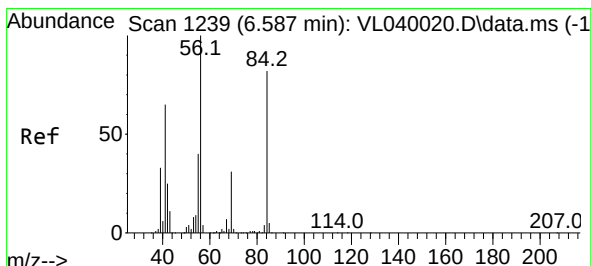
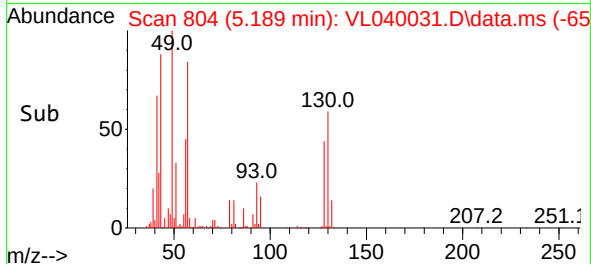
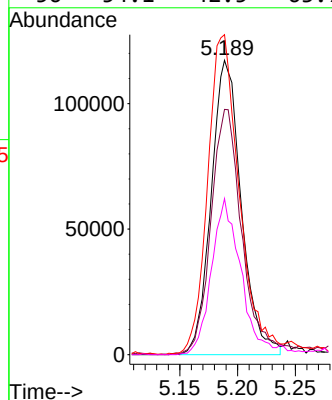


#26
Hexane
Concen: 2.061 ppbv
RT: 5.189 min Scan# 806
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Instrument :
MSVOA_L
ClientSampleId :

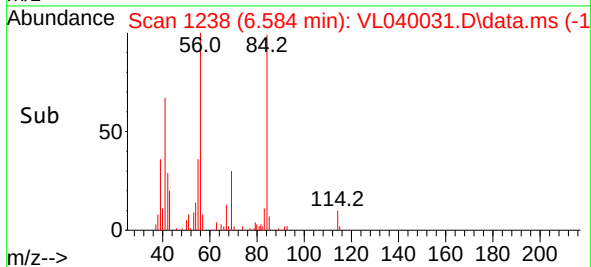
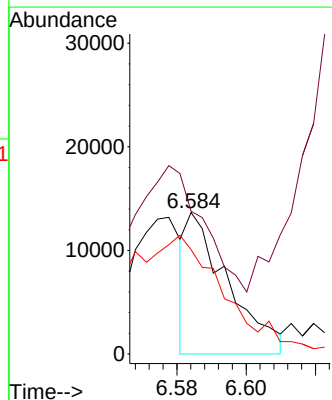
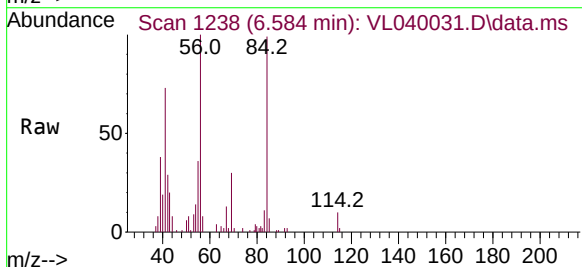


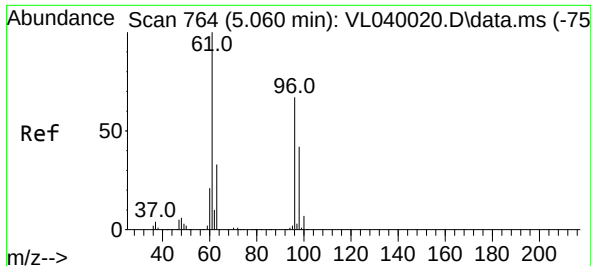
Tgt Ion: 57 Resp: 212073
Ion Ratio Lower Upper
57 100
41 85.8 72.1 108.1
43 118.2 192.1 288.1#
56 54.1 42.5 63.7



#30
Cyclohexane
Concen: 0.124 ppbv
RT: 6.584 min Scan# 1238
Delta R.T. -0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

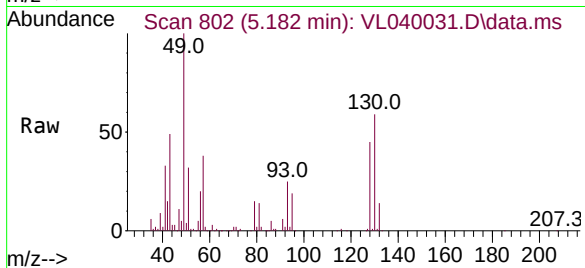
Tgt Ion: 84 Resp: 11320
Ion Ratio Lower Upper
84 100
56 0.0 110.2 165.4#
41 195.8 67.8 101.8#



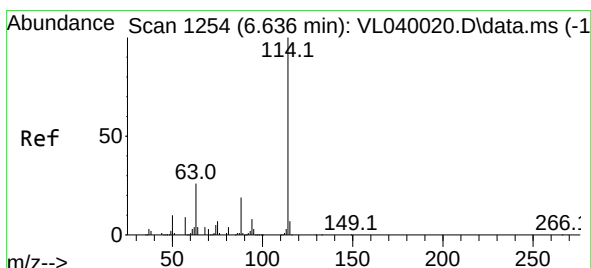
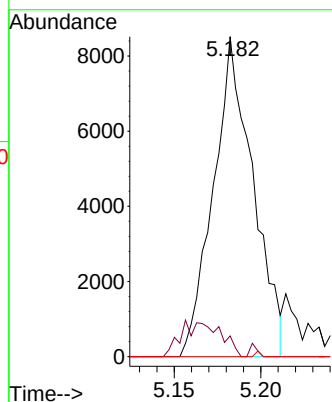
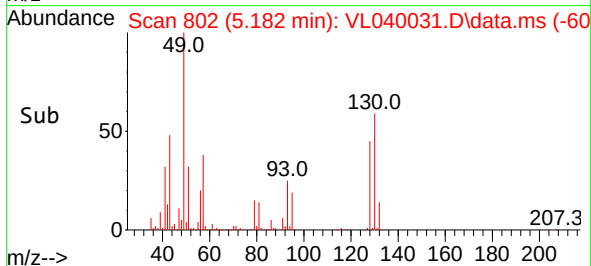


#31
 cis-1,2-Dichloroethene
 Concen: 0.138 ppbv
 RT: 5.182 min Scan# 80
 Delta R.T. 0.122 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

Instrument :
 MSVOA_L
 ClientSampleId :

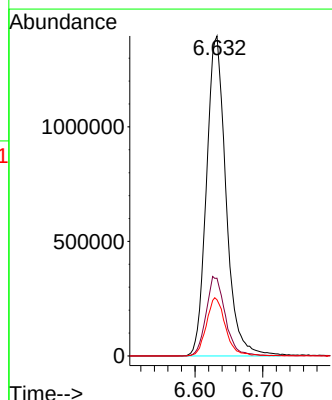
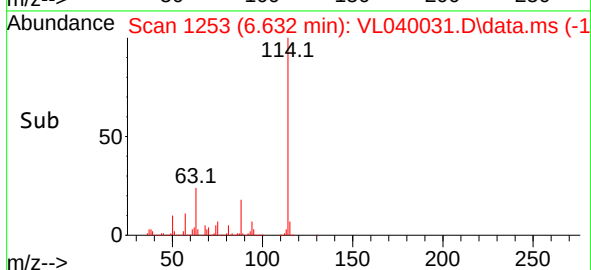
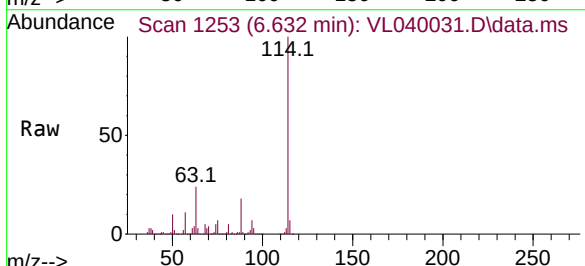


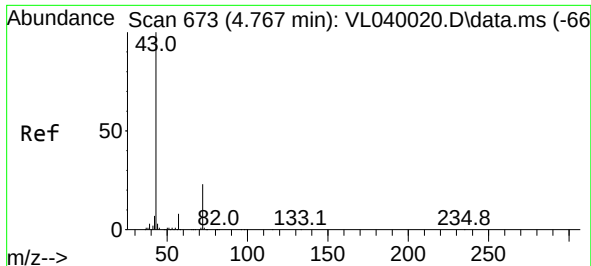
Tgt Ion: 61 Resp: 13540
 Ion Ratio Lower Upper
 61 100
 96 6.5 53.4 80.2#
 98 0.0 33.4 50.0#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.632 min Scan# 1253
 Delta R.T. -0.003 min
 Lab File: VL040031.D
 Acq: 19 Dec 2022 16:52

Tgt Ion: 114 Resp: 2791858
 Ion Ratio Lower Upper
 114 100
 63 24.6 20.2 30.2
 88 17.9 14.6 21.8

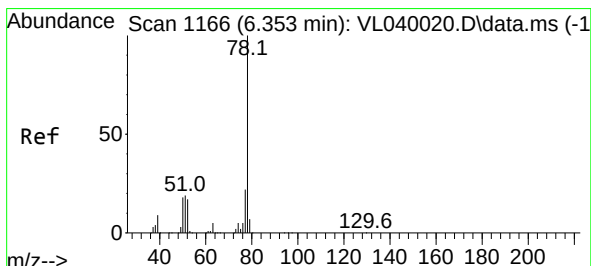
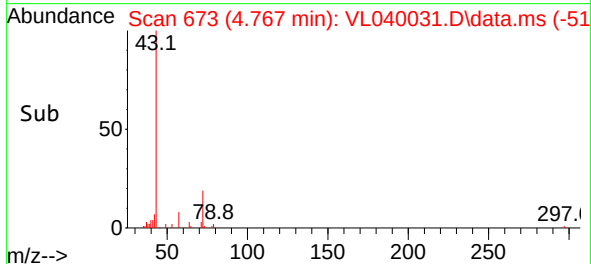
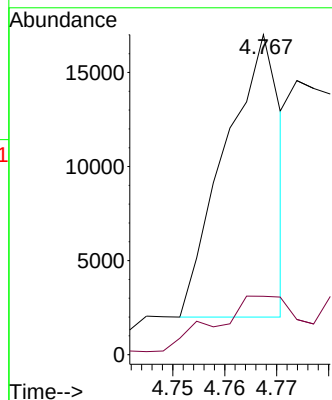
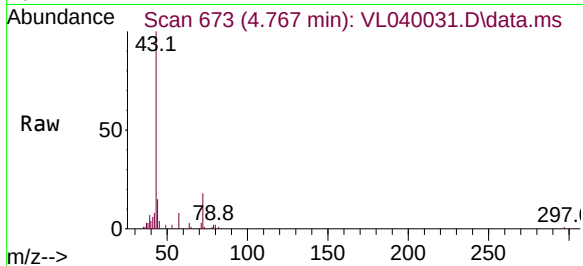




#34
2-Butanone
Concen: 0.073 ppbv
RT: 4.767 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

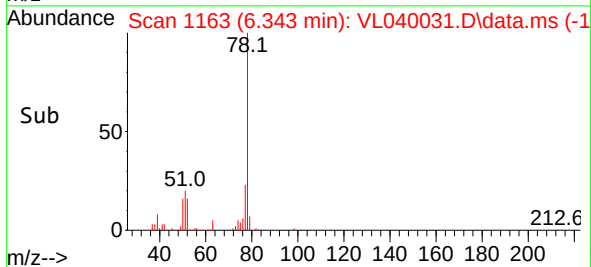
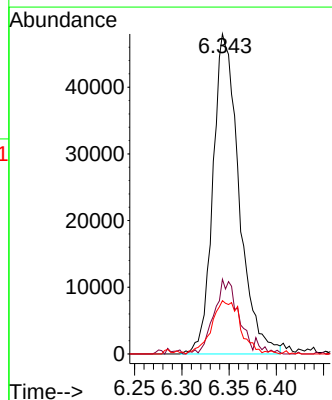
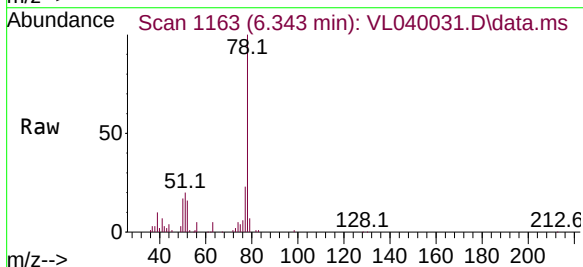
Instrument :
MSVOA_L
ClientSampleId :

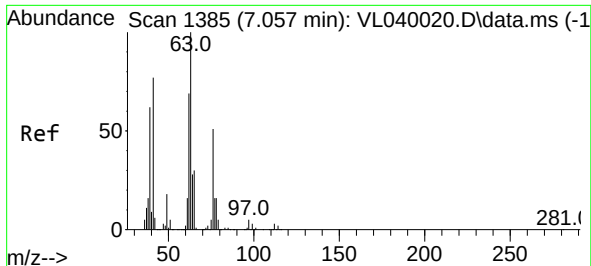
Tgt Ion: 43 Resp: 11127
Ion Ratio Lower Upper
43 100
72 61.0 18.0 27.0#



#36
Benzene
Concen: 0.369 ppbv
RT: 6.343 min Scan# 1163
Delta R.T. -0.010 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Tgt Ion: 78 Resp: 92065
Ion Ratio Lower Upper
78 100
77 22.9 17.5 26.3
50 16.7 14.2 21.2





#39

1,2-Dichloropropane

Concen: 7.260 ppbv

RT: 6.626 min Scan# 11

Delta R.T. -0.431 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

Instrument :

MSVOA_L

ClientSampleId :

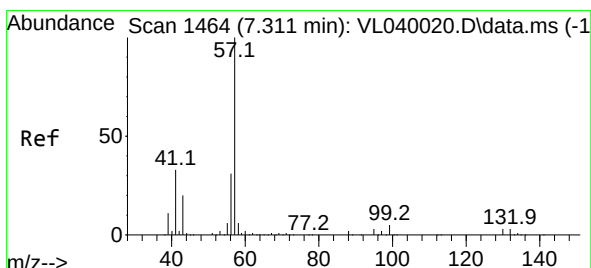
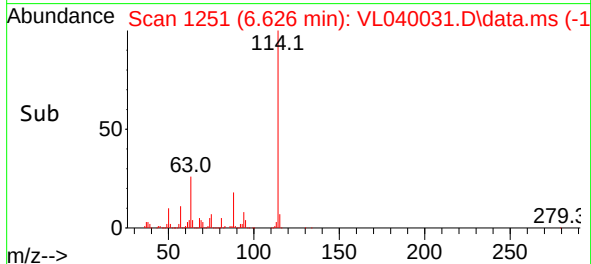
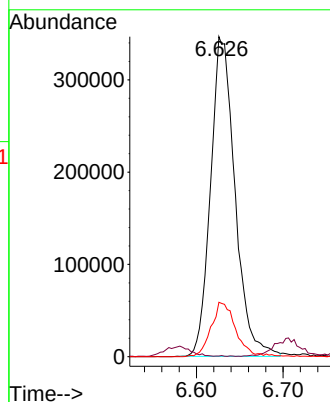
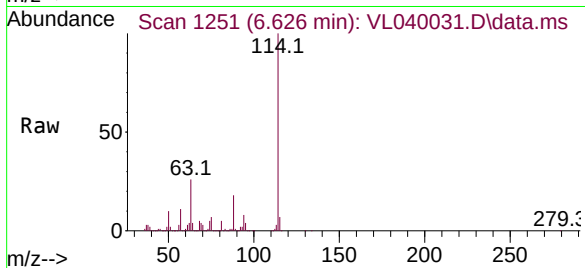
Tgt Ion: 63 Resp: 678544

Ion Ratio Lower Upper

63 100

41 0.0 61.4 92.0#

62 17.0 55.4 83.2#



#44

2,2,4-Trimethylpentane

Concen: 0.293 ppbv

RT: 7.308 min Scan# 1463

Delta R.T. -0.003 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

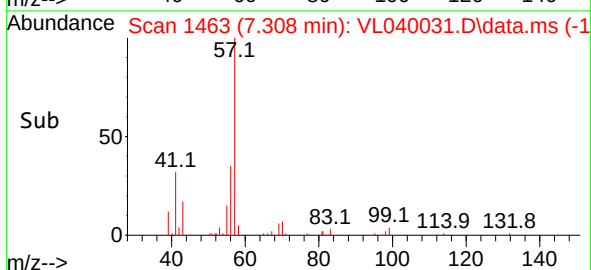
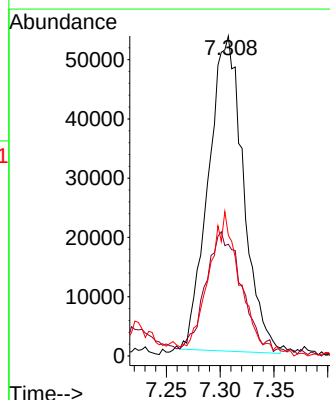
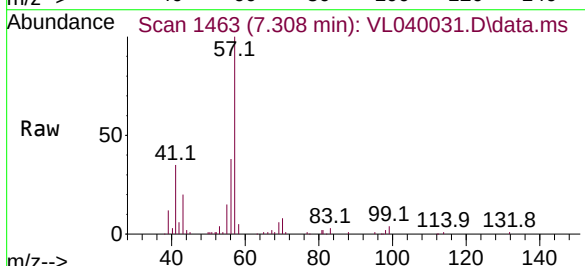
Tgt Ion: 57 Resp: 120116

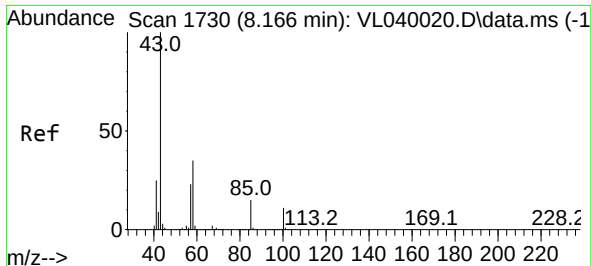
Ion Ratio Lower Upper

57 100

41 44.0 26.2 39.4#

56 44.8 25.1 37.7#





#50

4-Methyl-2-Pentanone

Concen: 0.036 ppbv

RT: 8.179 min Scan# 1

Delta R.T. 0.013 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

Instrument :

MSVOA_L

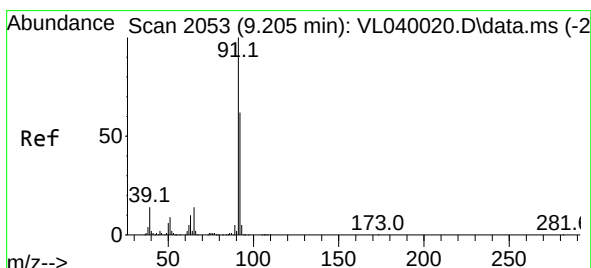
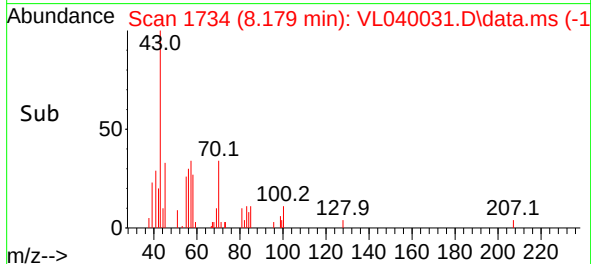
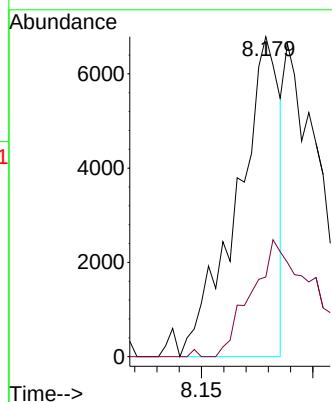
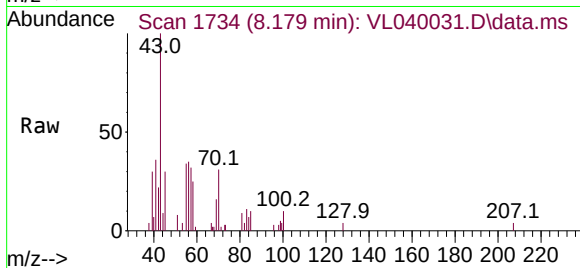
ClientSampleId :

Tgt Ion: 43 Resp: 8941

Ion Ratio Lower Upper

43 100

58 56.9 29.0 43.4#



#53

Toluene

Concen: 1.398 ppbv

RT: 9.201 min Scan# 2052

Delta R.T. -0.003 min

Lab File: VL040031.D

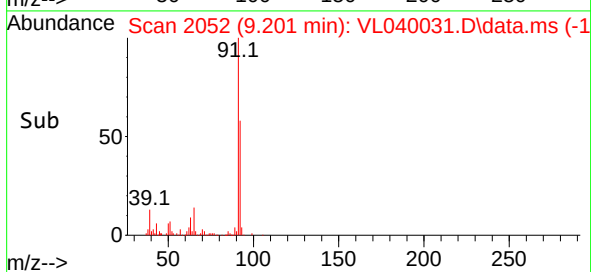
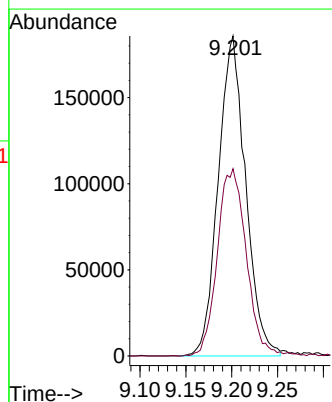
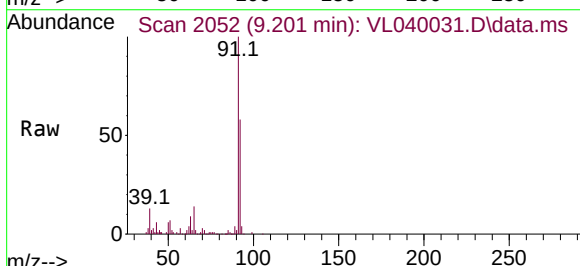
Acq: 19 Dec 2022 16:52

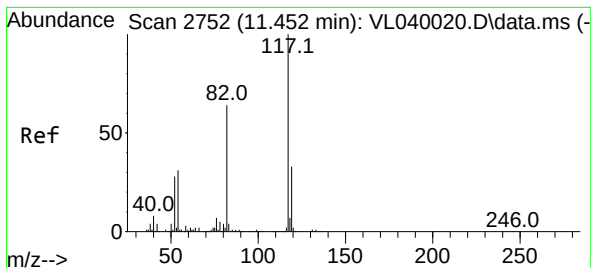
Tgt Ion: 91 Resp: 385840

Ion Ratio Lower Upper

91 100

92 62.3 48.7 73.1

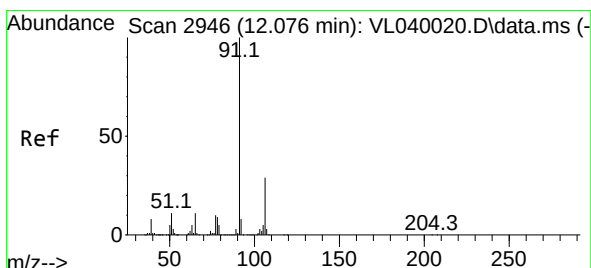
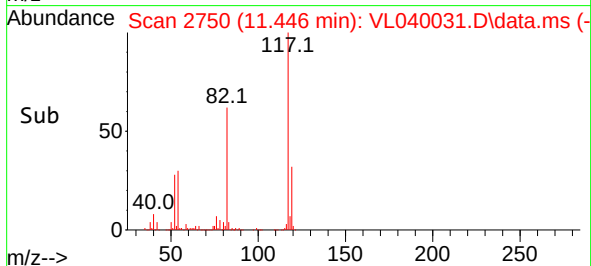
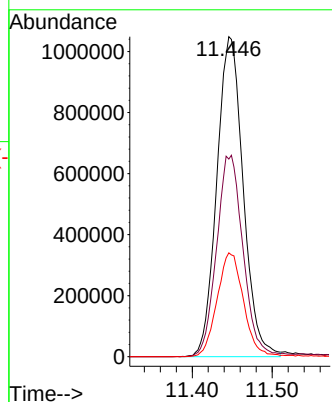
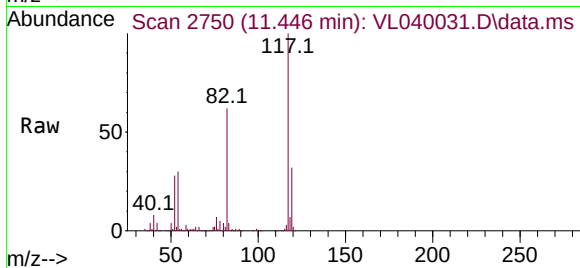




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

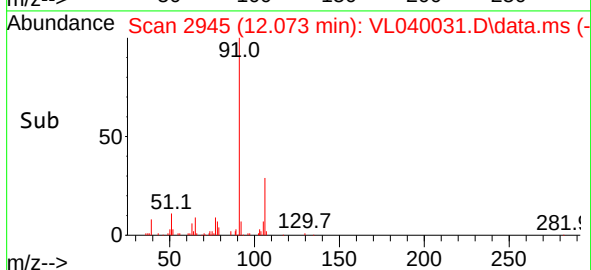
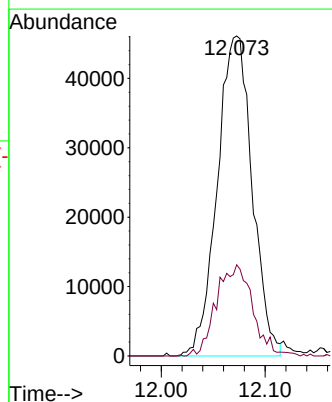
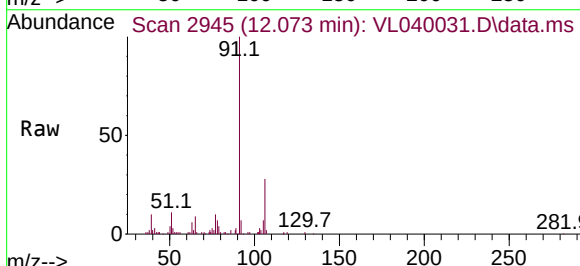
Instrument :
MSVOA_L
ClientSampleId :

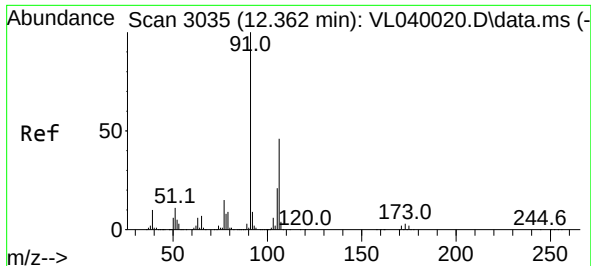
Tgt Ion:117 Resp: 2402009
Ion Ratio Lower Upper
117 100
82 63.4 51.2 76.8
119 32.9 23.2 34.8



#58
Ethyl Benzene
Concen: 0.316 ppbv
RT: 12.073 min Scan# 2945
Delta R.T. -0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Tgt Ion: 91 Resp: 107680
Ion Ratio Lower Upper
91 100
106 28.2 23.5 35.3





#59

m/p-Xylene

Concen: 1.088 ppbv

RT: 12.323 min Scan# 3035

Delta R.T. -0.039 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

Instrument :

MSVOA_L

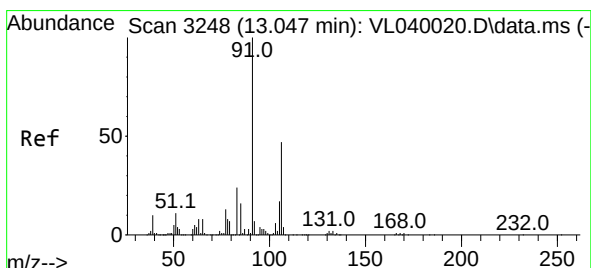
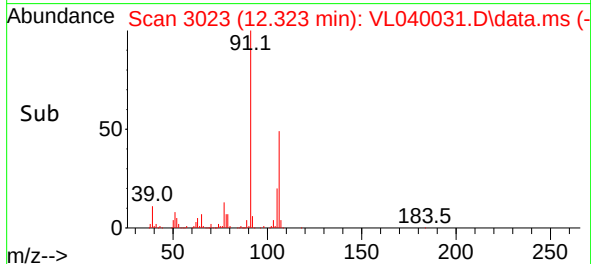
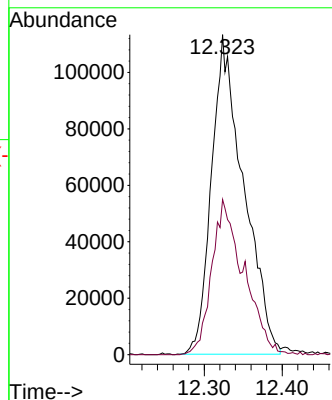
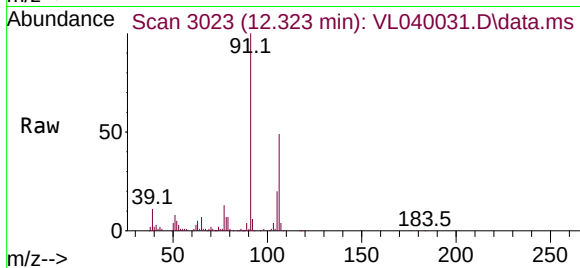
ClientSampleId :

Tgt Ion: 91 Resp: 323404

Ion Ratio Lower Upper

91 100

106 48.5 35.5 53.3



#60

o-Xylene

Concen: 0.270 ppbv

RT: 13.037 min Scan# 3245

Delta R.T. -0.010 min

Lab File: VL040031.D

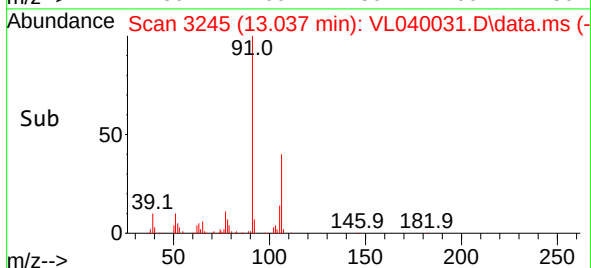
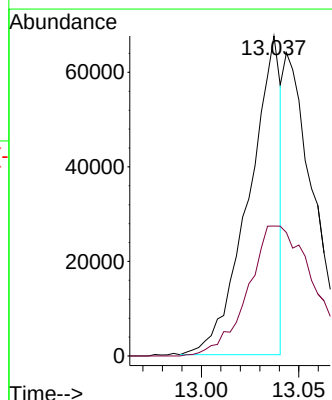
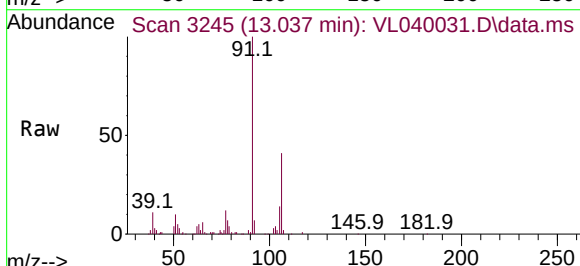
Acq: 19 Dec 2022 16:52

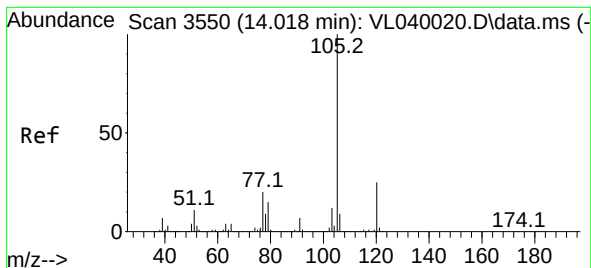
Tgt Ion: 91 Resp: 76942

Ion Ratio Lower Upper

91 100

106 84.6 22.4 67.0#





#62

Isopropylbenzene

Concen: 0.055 ppbv

RT: 14.015 min Scan# 3549

Delta R.T. -0.003 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

Instrument :

MSVOA_L

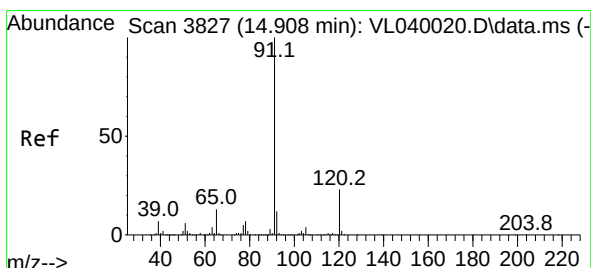
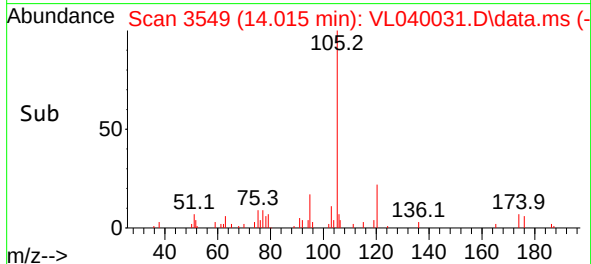
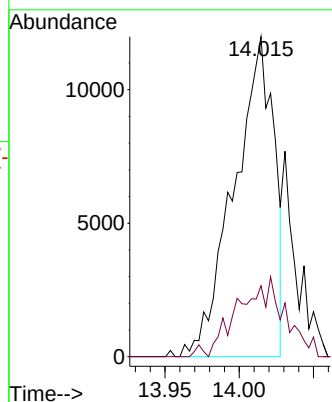
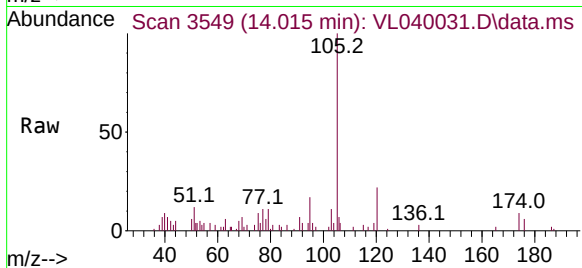
ClientSampleId :

Tgt Ion:105 Resp: 22411

Ion Ratio Lower Upper

105 100

120 29.2 20.6 31.0



#64

n-propylbenzene

Concen: 0.175 ppbv

RT: 14.902 min Scan# 3825

Delta R.T. -0.006 min

Lab File: VL040031.D

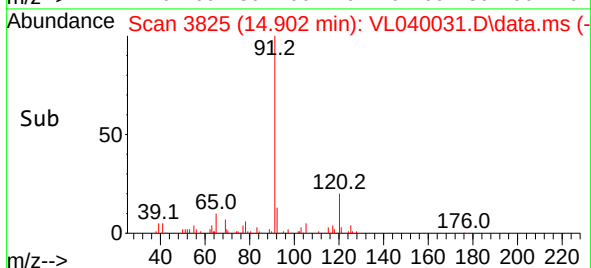
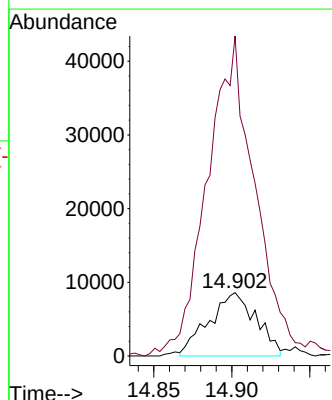
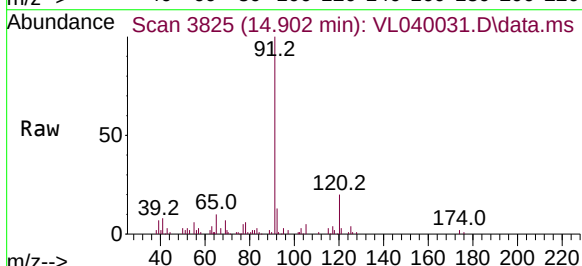
Acq: 19 Dec 2022 16:52

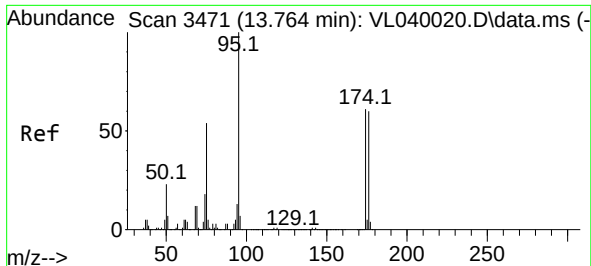
Tgt Ion:120 Resp: 18151

Ion Ratio Lower Upper

120 100

91 512.8 384.3 576.5

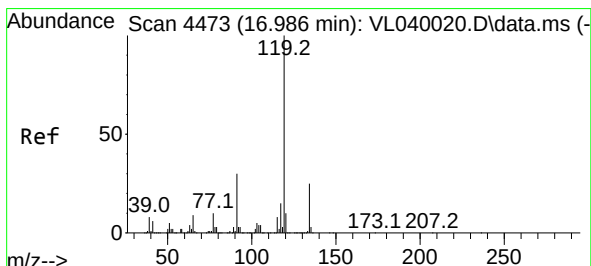
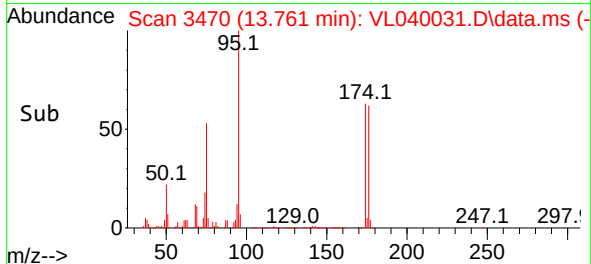
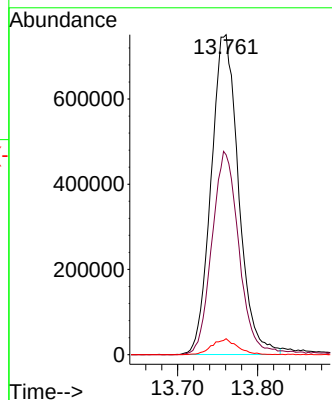
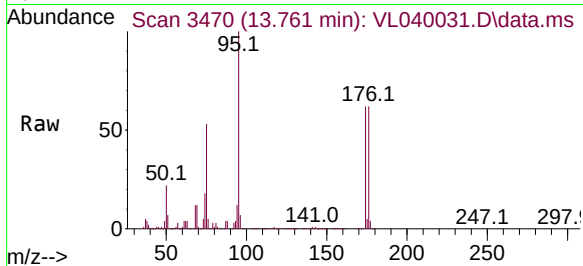




#68
1-Bromo-4-Fluorobenzene
Concen: 9.766 ppbv
RT: 13.761 min Scan# 3471
Delta R.T. -0.003 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

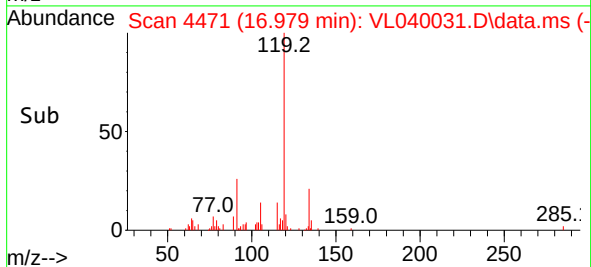
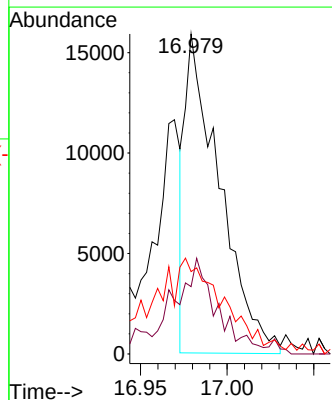
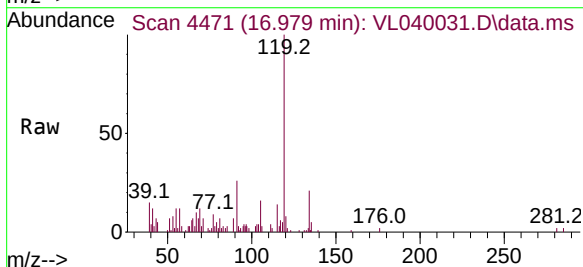
Instrument :
MSVOA_L
ClientSampleId :

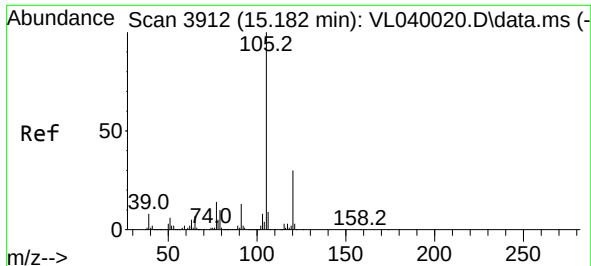
Tgt Ion: 95 Resp: 1791887
Ion Ratio Lower Upper
95 100
174 64.0 48.6 73.0
175 4.6 3.4 5.2



#69
p-Isopropyltoluene
Concen: 0.055 ppbv
RT: 16.979 min Scan# 4471
Delta R.T. -0.006 min
Lab File: VL040031.D
Acq: 19 Dec 2022 16:52

Tgt Ion: 119 Resp: 22002
Ion Ratio Lower Upper
119 100
134 42.2 20.2 30.4#
91 41.1 24.2 36.4#





#72

4-Ethyltoluene

Concen: 0.123 ppbv

RT: 15.169 min Scan# 3908

Delta R.T. -0.013 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 38902

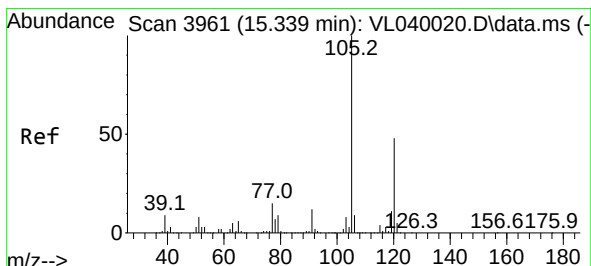
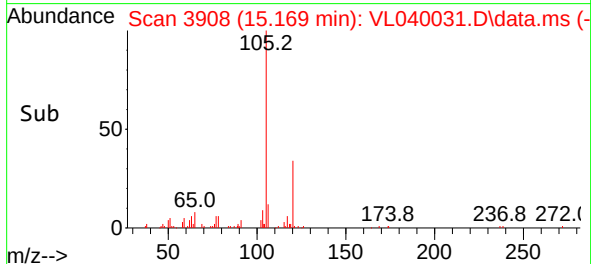
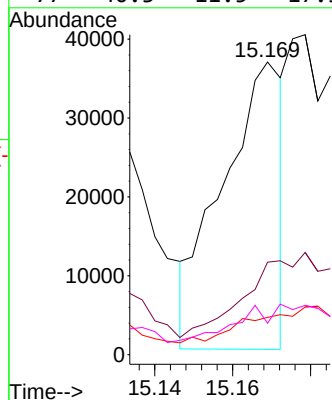
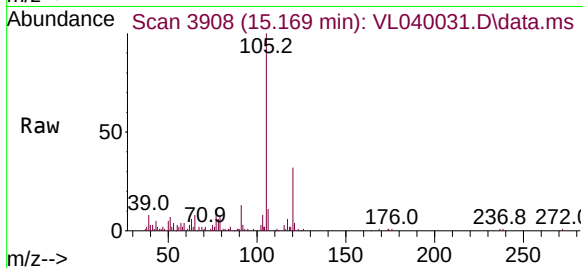
Ion Ratio Lower Upper

105 100

120 0.0 23.5 35.3#

91 0.0 10.5 15.7#

77 40.3 11.5 17.3#



#73

1,3,5-Trimethylbenzene

Concen: 0.327 ppbv

RT: 15.333 min Scan# 3959

Delta R.T. -0.006 min

Lab File: VL040031.D

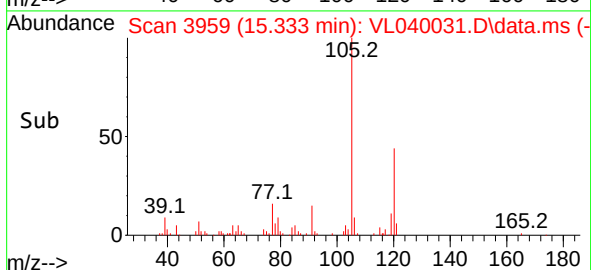
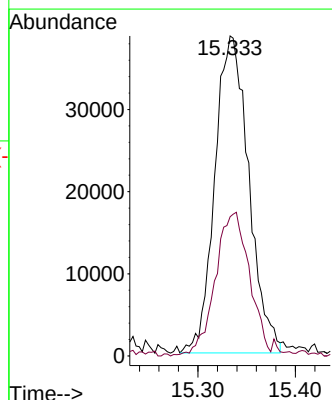
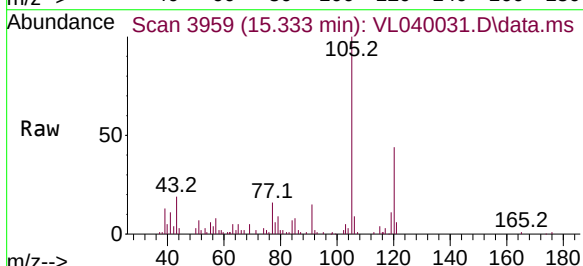
Acq: 19 Dec 2022 16:52

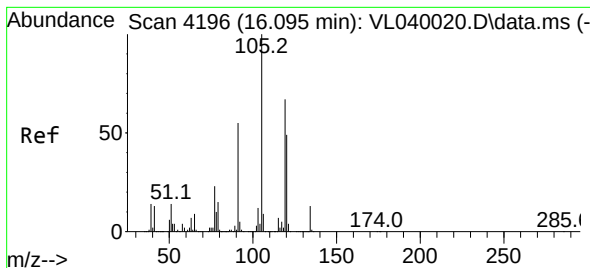
Tgt Ion:105 Resp: 93152

Ion Ratio Lower Upper

105 100

120 43.4 38.4 57.6





#74

1,2,4-Trimethylbenzene

Concen: 1.012 ppbv

RT: 16.092 min Scan# 41

Delta R.T. -0.003 min

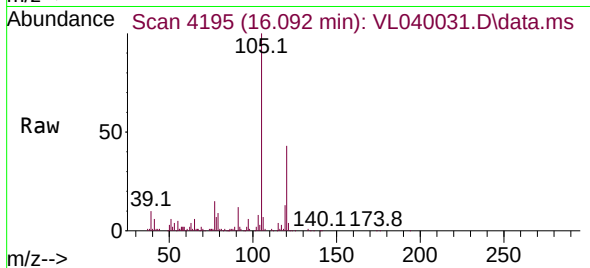
Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:105 Resp: 318112

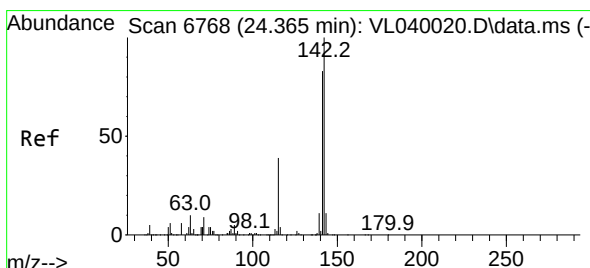
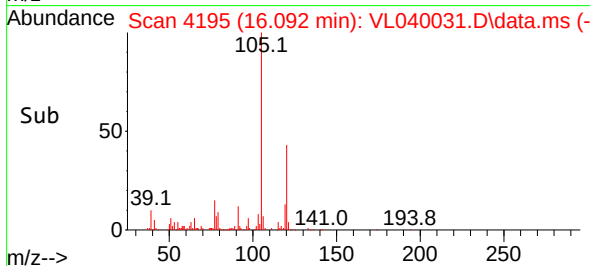
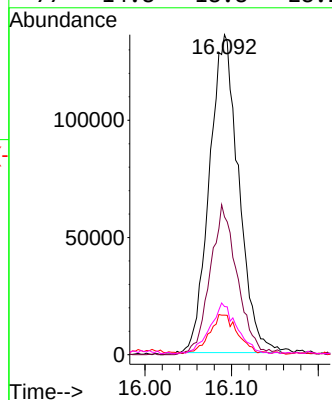
Ion Ratio Lower Upper

105 100

120 42.8 39.3 58.9

91 12.0 44.2 66.4#

77 14.8 18.8 28.2#



#80

Naphthalene,2-methyl-

Concen: 0.056 ppbv

RT: 24.712 min Scan# 6876

Delta R.T. 0.347 min

Lab File: VL040031.D

Acq: 19 Dec 2022 16:52

Tgt Ion:142 Resp: 3212

Ion Ratio Lower Upper

142 100

141 94.7 65.3 97.9

115 47.8 31.9 47.9

