

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041427.D
 Acq On : 29 Jul 2024 13:35
 Operator : SY/MD
 Sample : P3342-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 30 02:49:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jul 30 02:42:20 2024
 Response via : Initial Calibration

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

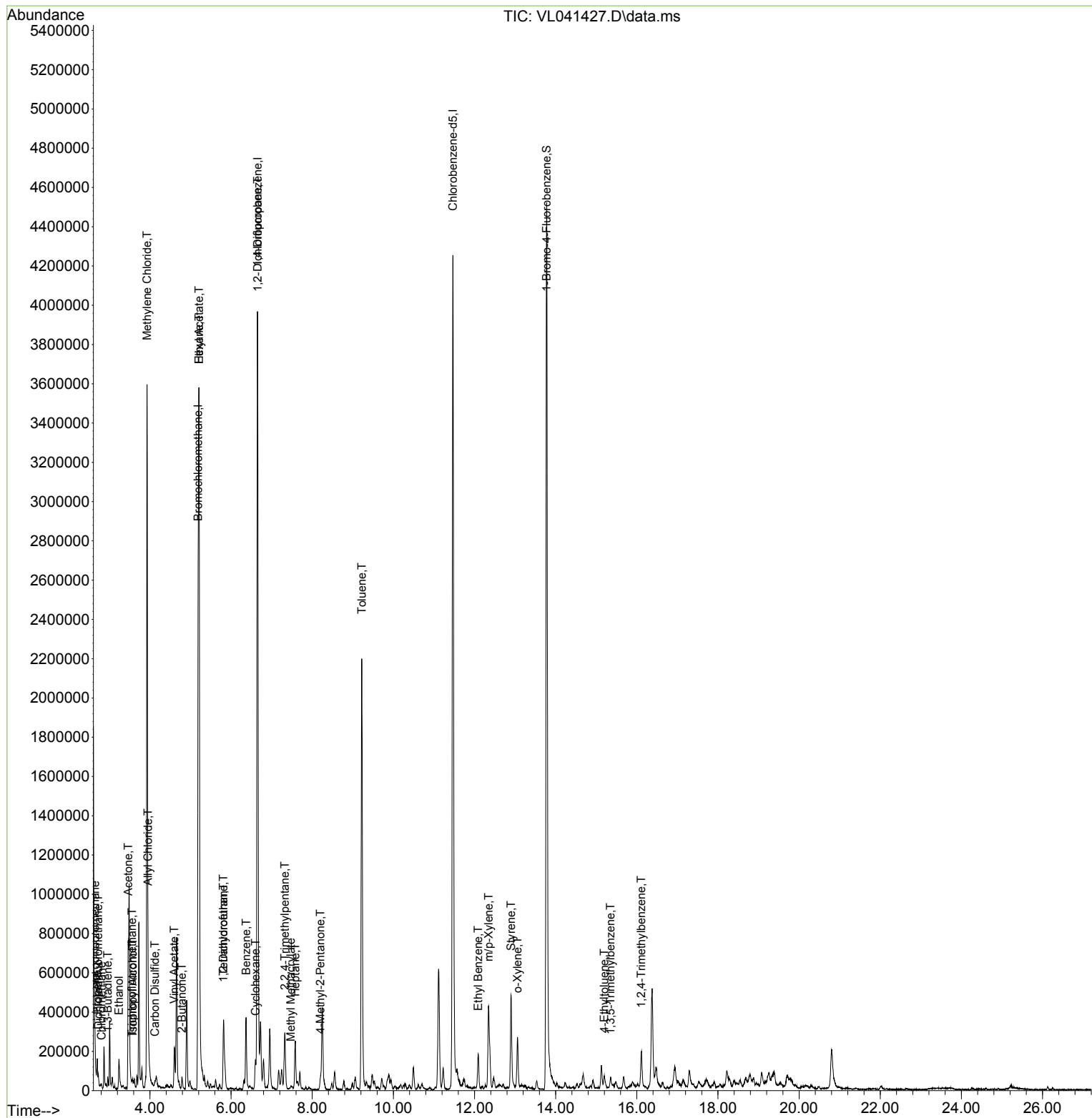
Internal Standards						
1) Bromochloromethane	5.189	49	1103862	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	3010832	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2860903	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2216566	10.068	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.700%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.726	85	20881	0.110	ppbv	97
3) Chlorodifluoromethane	2.649	51	39405	0.300	ppbv #	71
4) Chloromethane	2.809	50	5551	0.079	ppbv #	86
9) Propene	2.700	41	36231	0.600	ppbv	84
10) Heptane	7.584	43	42001	0.310	ppbv #	27
11) Trichlorofluoromethane	3.562	101	5159	0.031	ppbv	99
13) Ethanol	3.237	45	164385	30.467	ppbv	89
15) Acetone	3.465	43	684625	5.459	ppbv	92
16) 1,3-Butadiene	2.960	39	14859	0.222	ppbv #	23
19) Isopropyl Alcohol	3.578	45	26147	0.357	ppbv #	1
20) Methylene Chloride	3.931	84	1212467	25.924	ppbv	98
21) Allyl Chloride	3.951	41	19382	0.236	ppbv #	8
23) Vinyl Acetate	4.600	43	86693	0.905	ppbv #	1
25) Ethyl Acetate	5.211	43	824933	3.311	ppbv #	76
26) Hexane	5.211	57	1192499	11.537	ppbv #	37
27) Carbon Disulfide	4.124	76	26730	0.221	ppbv #	60
30) Cyclohexane	6.603	84	44532	0.529	ppbv	89
34) 2-Butanone	4.787	43	65209	0.448	ppbv	97
36) Benzene	6.372	78	289004	1.314	ppbv	96
37) 1,2-Dichloroethane	5.809	62	6844	0.056	ppbv #	82
39) 1,2-Dichloropropane	6.655	63	729091	8.656	ppbv #	25
41) Tetrahydrofuran	5.812	42	43795	0.526	ppbv #	37
43) Methyl Methacrylate	7.475	69	2554	0.032	ppbv #	1
44) 2,2,4-Trimethylpentane	7.327	57	154409	0.420	ppbv #	51
50) 4-Methyl-2-Pentanone	8.198	43	9161	0.040	ppbv #	1
53) Toluene	9.221	91	1726359	7.045	ppbv	99
58) Ethyl Benzene	12.089	91	155943	0.473	ppbv #	88
59) m/p-Xylene	12.346	91	425126	1.493	ppbv	97
60) o-Xylene	13.060	91	191134	0.710	ppbv	98
61) Styrene	12.902	104	282224	2.323	ppbv	99
72) 4-Ethyltoluene	15.201	105	18149	0.057	ppbv #	33
73) 1,3,5-Trimethylbenzene	15.352	105	33513	0.123	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.111	105	144930	0.456	ppbv #	65

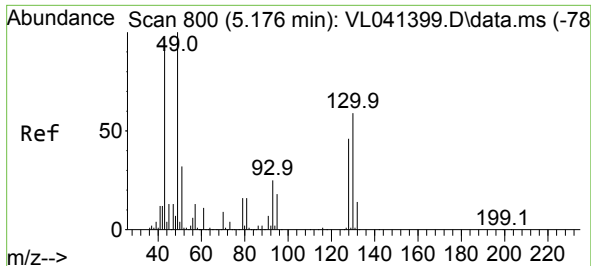
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
Data File : VL041427.D
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Instrument :
MSVOA_L
ClientSampleId :

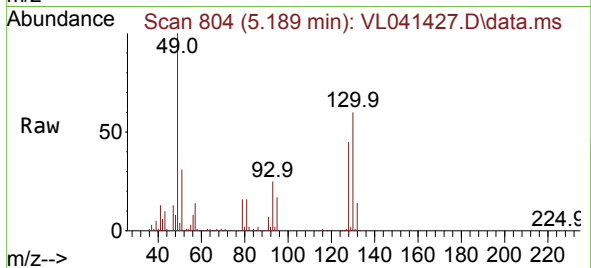
Quant Time: Jul 30 02:49:09 2024
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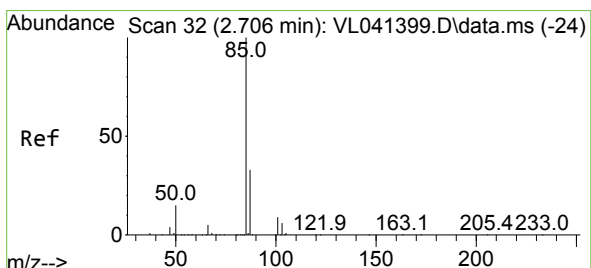
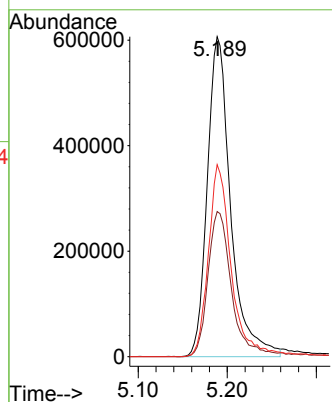
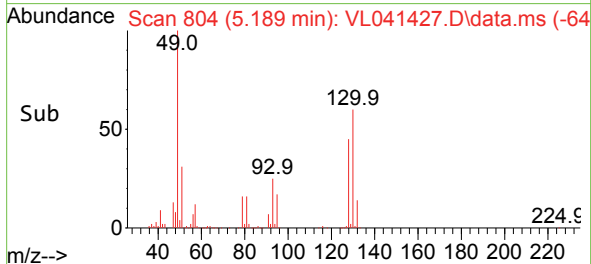


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

Instrument :
MSVOA_L
ClientSampleId :

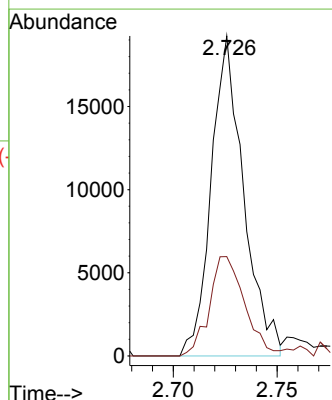
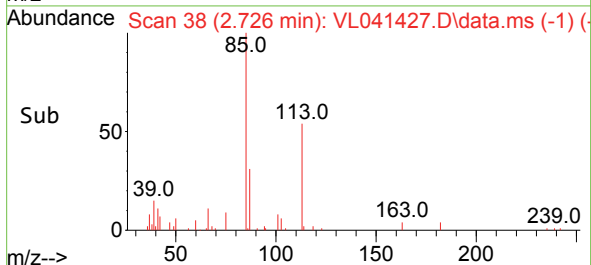
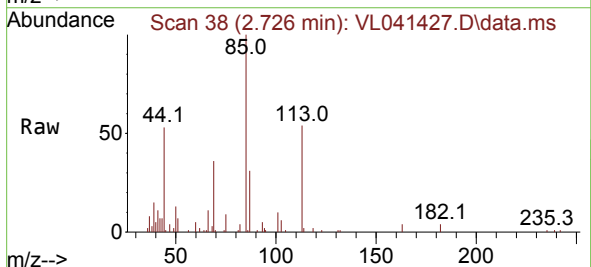


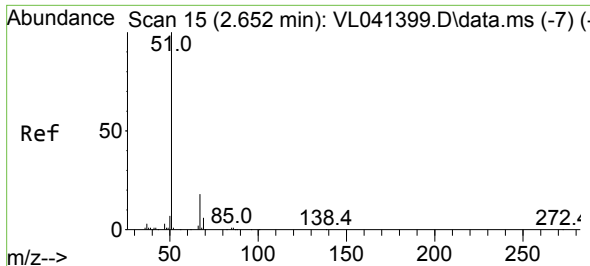
Tgt Ion: 49 Resp: 1103862
Ion Ratio Lower Upper
49 100
128 47.4 23.8 71.4
130 60.6 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.110 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.016 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

Tgt Ion: 85 Resp: 20881
Ion Ratio Lower Upper
85 100
87 31.0 26.0 39.0

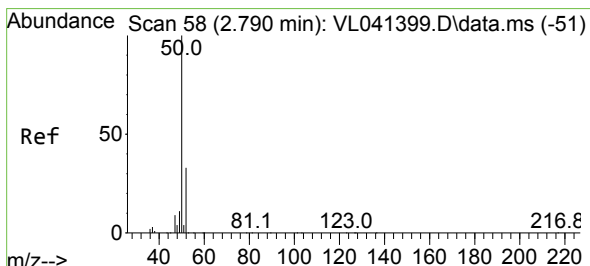
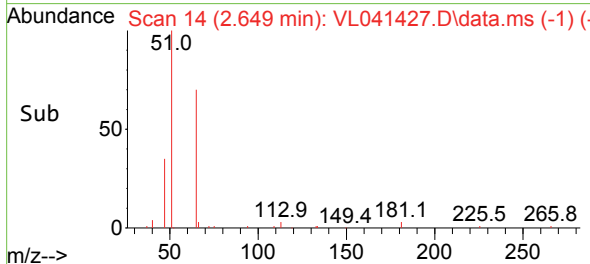
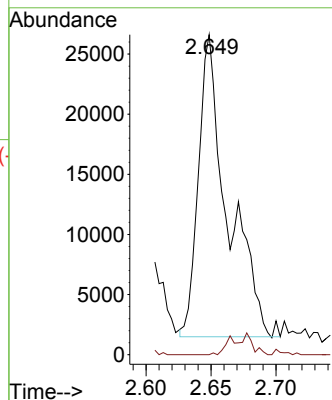
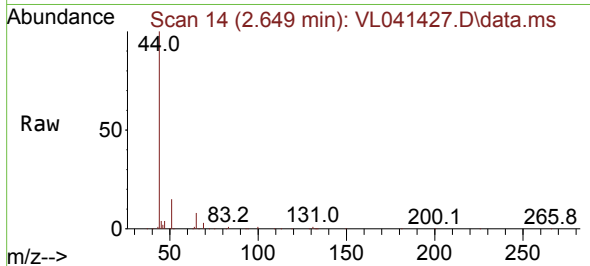




#3
Chlorodifluoromethane
Concen: 0.300 ppbv
RT: 2.649 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

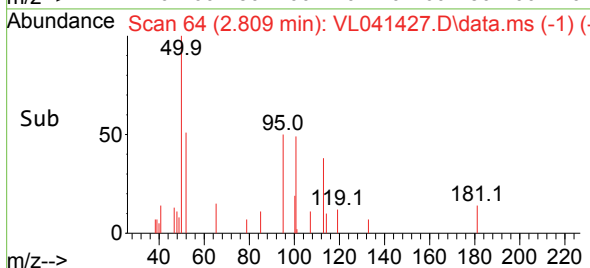
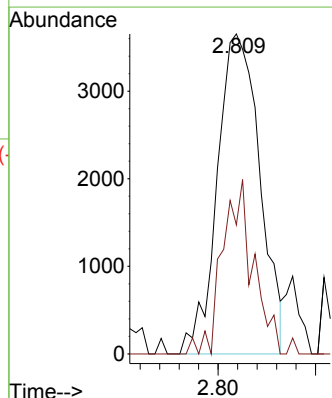
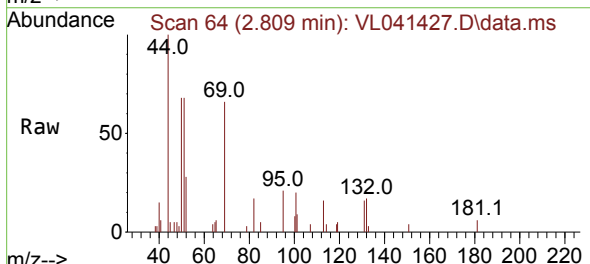
Instrument :
MSVOA_L
ClientSampleId :

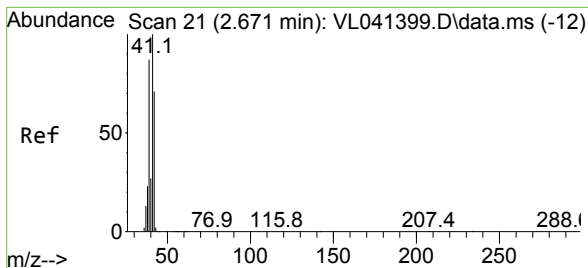
Tgt Ion: 51 Resp: 39405
Ion Ratio Lower Upper
51 100
67 5.4 14.5 21.7#



#4
Chloromethane
Concen: 0.079 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.016 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

Tgt Ion: 50 Resp: 5551
Ion Ratio Lower Upper
50 100
52 40.4 26.1 39.1#





#9

Propene

Concen: 0.600 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.029 min

Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Instrument :

MSVOA_L

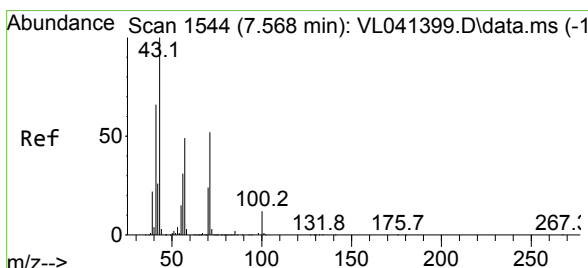
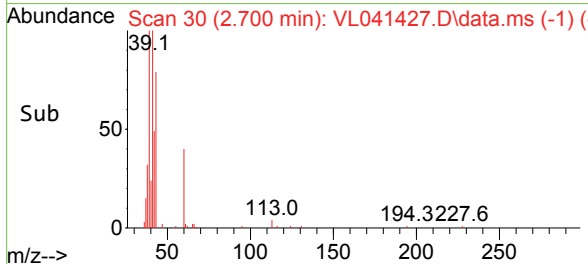
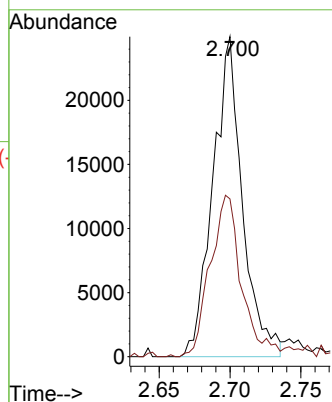
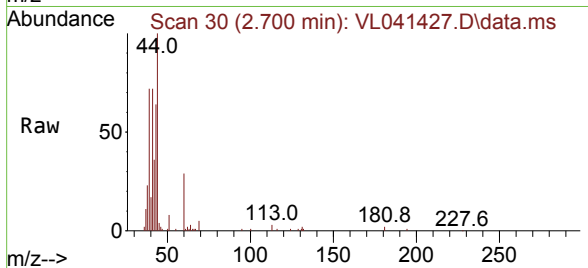
ClientSampleId :

Tgt Ion: 41 Resp: 36231

Ion Ratio Lower Upper

41 100

42 56.4 55.9 83.9



#10

Heptane

Concen: 0.310 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. 0.013 min

Lab File: VL041427.D

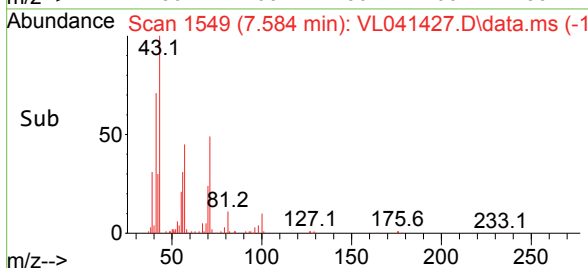
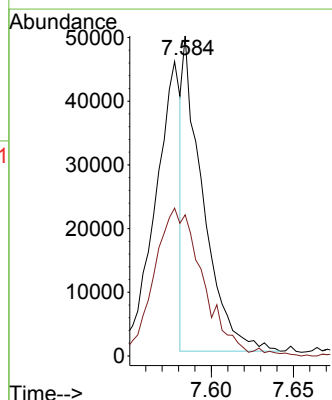
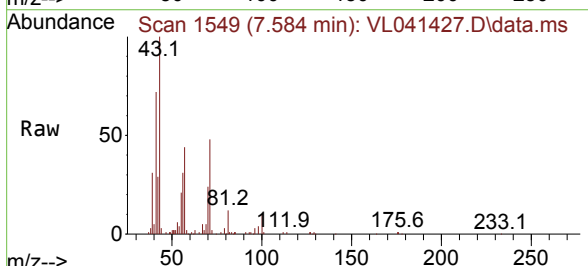
Acq: 29 Jul 2024 13:35

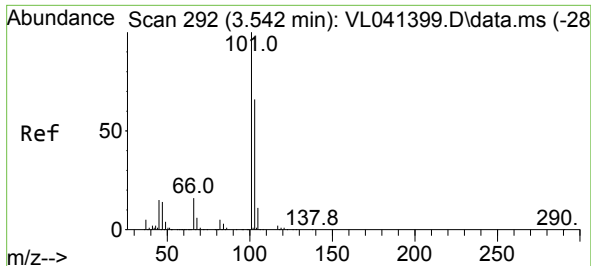
Tgt Ion: 43 Resp: 42001

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#

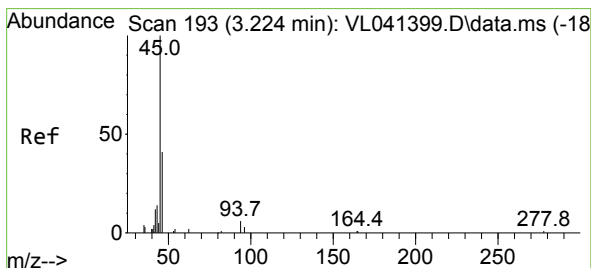
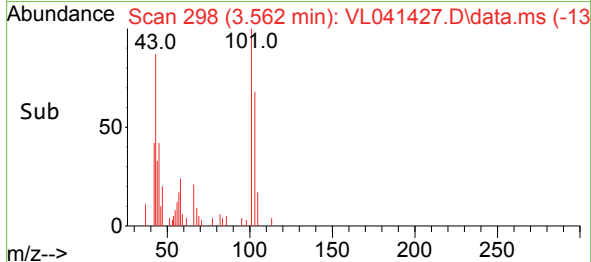
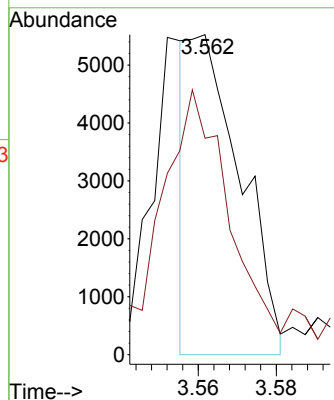
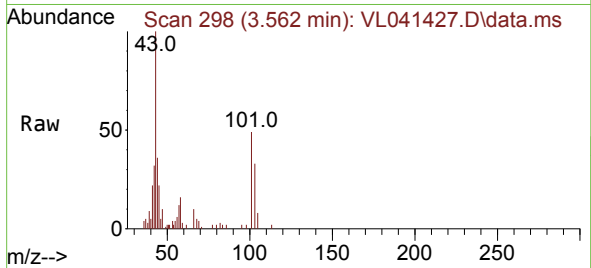




#11
 Trichlorofluoromethane
 Concen: 0.031 ppbv
 RT: 3.562 min Scan# 292
 Delta R.T. 0.016 min
 Lab File: VL041427.D
 Acq: 29 Jul 2024 13:35

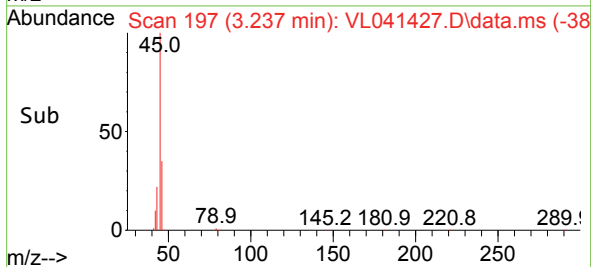
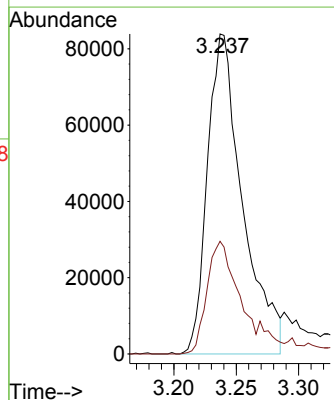
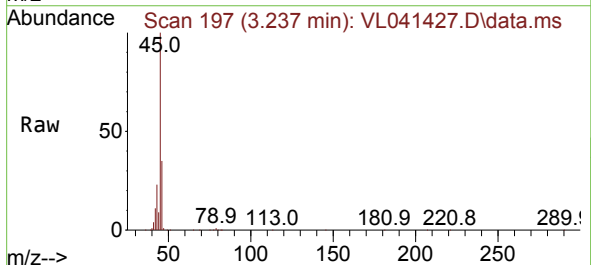
Instrument :
 MSVOA_L
 ClientSampleId :

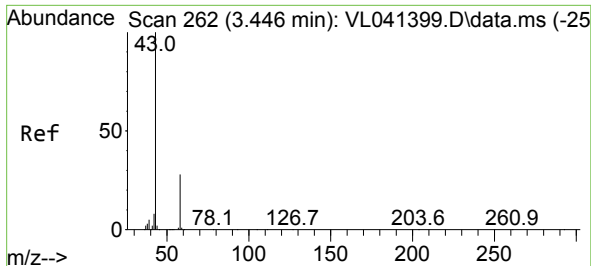
Tgt Ion:101 Resp: 5159
 Ion Ratio Lower Upper
 101 100
 103 65.1 52.6 79.0



#13
 Ethanol
 Concen: 30.467 ppbv
 RT: 3.237 min Scan# 197
 Delta R.T. 0.010 min
 Lab File: VL041427.D
 Acq: 29 Jul 2024 13:35

Tgt Ion: 45 Resp: 164385
 Ion Ratio Lower Upper
 45 100
 46 39.7 13.4 53.4





#15

Acetone

Concen: 5.459 ppbv

RT: 3.465 min Scan# 20

Delta R.T. 0.013 min

Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Instrument :

MSVOA_L

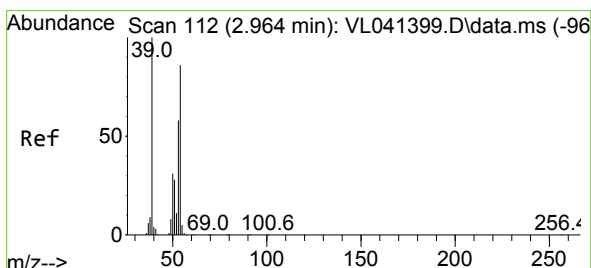
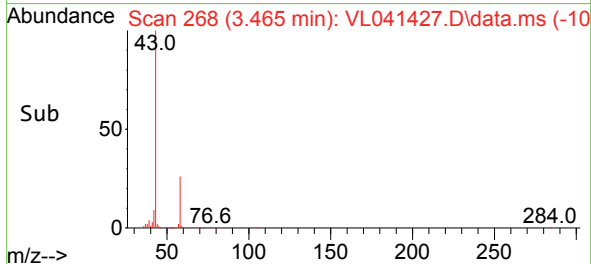
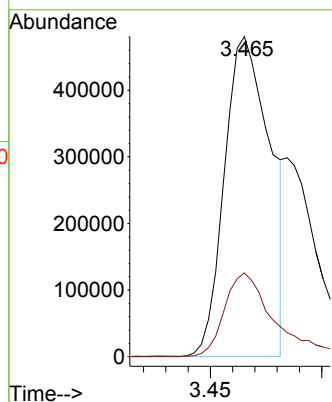
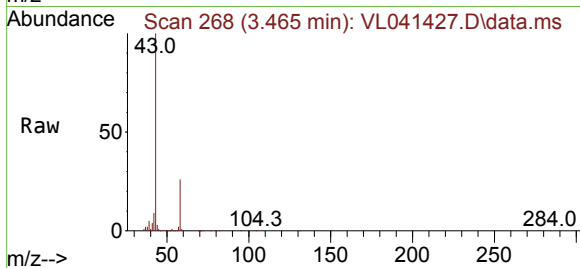
ClientSampleId :

Tgt Ion: 43 Resp: 684625

Ion Ratio Lower Upper

43 100

58 31.1 21.4 32.2



#16

1,3-Butadiene

Concen: 0.222 ppbv

RT: 2.960 min Scan# 111

Delta R.T. -0.006 min

Lab File: VL041427.D

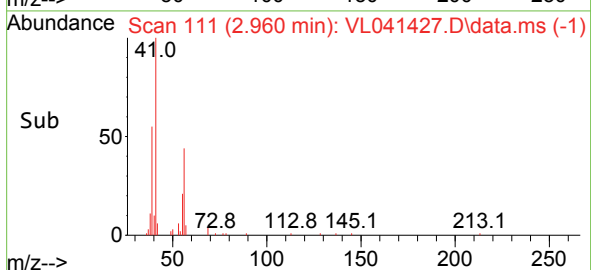
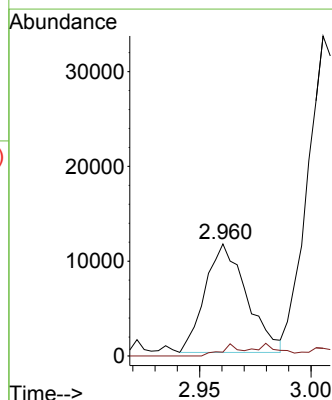
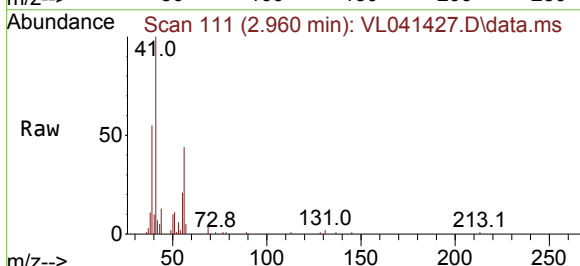
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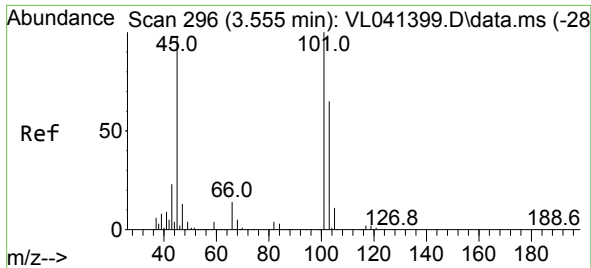
Tgt Ion: 39 Resp: 14859

Ion Ratio Lower Upper

39 100

54 11.1 62.5 93.7#





#19

Isopropyl Alcohol

Concen: 0.357 ppbv

RT: 3.578 min Scan# 303

Delta R.T. 0.016 min

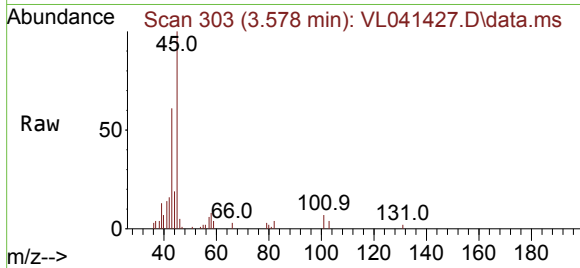
Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Instrument :

MSVOA_L

ClientSampleId :

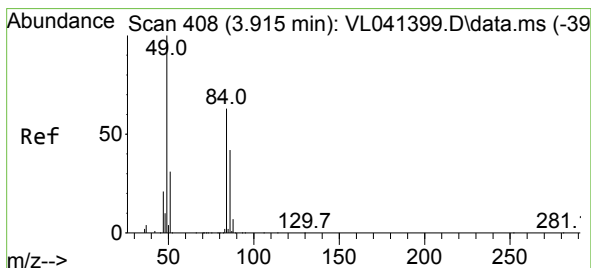
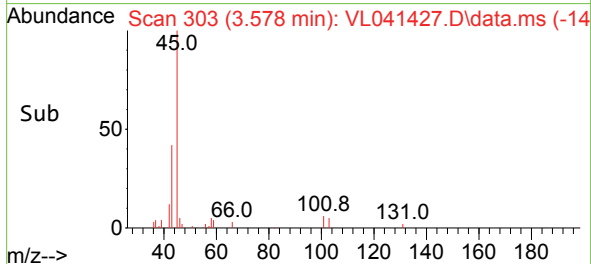
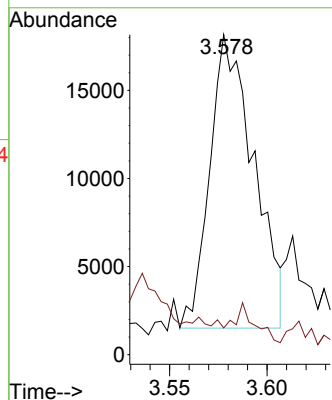


Tgt Ion: 45 Resp: 26147

Ion Ratio Lower Upper

45 100

58 803.7 1.9 2.9#



#20

Methylene Chloride

Concen: 25.924 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.013 min

Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Tgt Ion: 84 Resp: 1212467

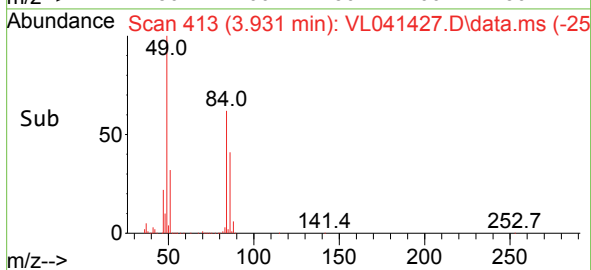
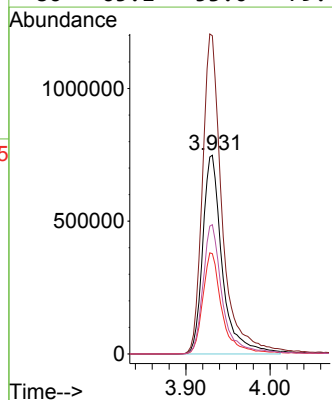
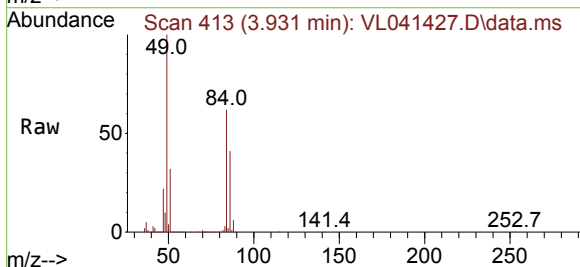
Ion Ratio Lower Upper

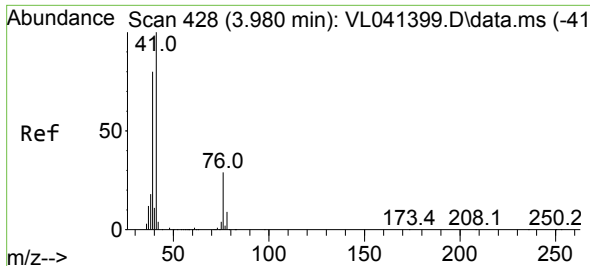
84 100

49 160.1 126.6 190.0

51 50.4 38.6 58.0

86 65.1 53.0 79.4

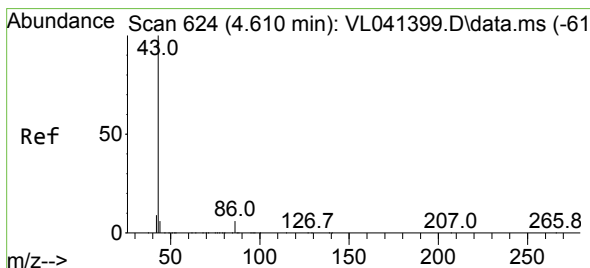
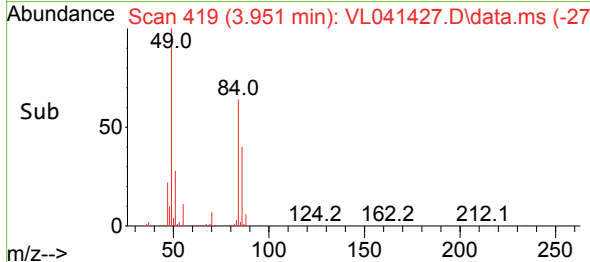
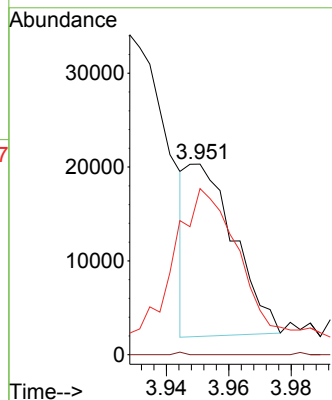
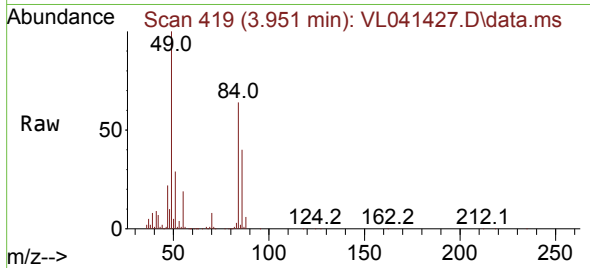




#21
 Allyl Chloride
 Concen: 0.236 ppbv
 RT: 3.951 min Scan# 41
 Delta R.T. -0.029 min
 Lab File: VL041427.D
 Acq: 29 Jul 2024 13:35

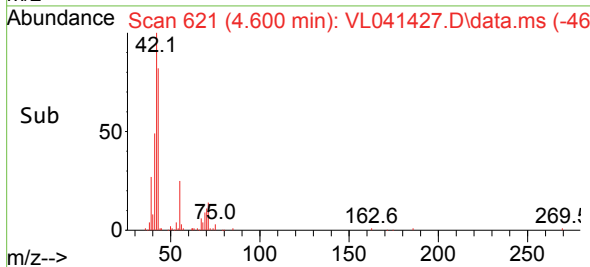
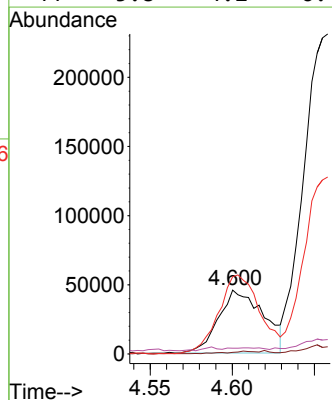
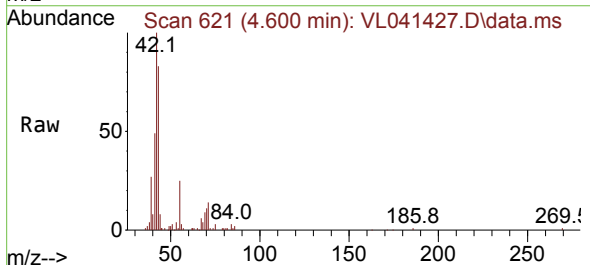
Instrument :
 MSVOA_L
 ClientSampleId :

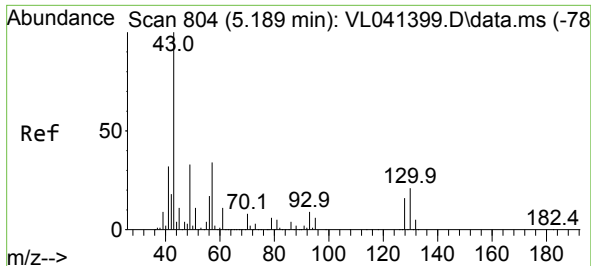
Tgt Ion: 41 Resp: 19382
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.7 35.5#
 39 174.3 64.3 96.5#



#23
 Vinyl Acetate
 Concen: 0.905 ppbv
 RT: 4.600 min Scan# 621
 Delta R.T. -0.013 min
 Lab File: VL041427.D
 Acq: 29 Jul 2024 13:35

Tgt Ion: 43 Resp: 86693
 Ion Ratio Lower Upper
 43 100
 86 2.1 4.6 6.8#
 42 121.5 7.9 11.9#
 44 5.8 4.2 6.4





#25

Ethyl Acetate

Concen: 3.311 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.019 min

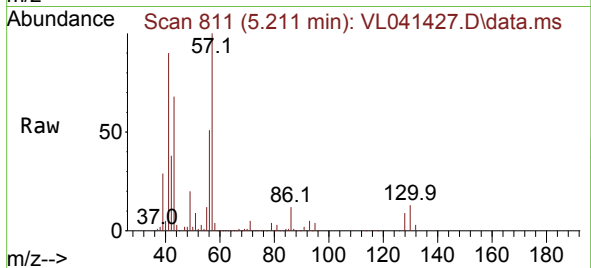
Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 43 Resp: 824933

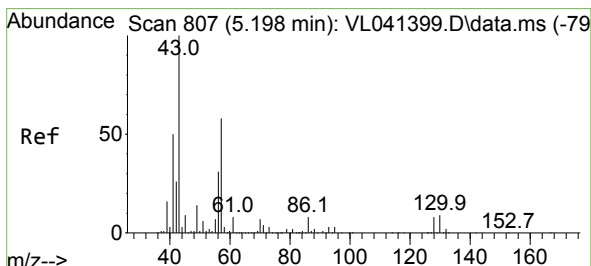
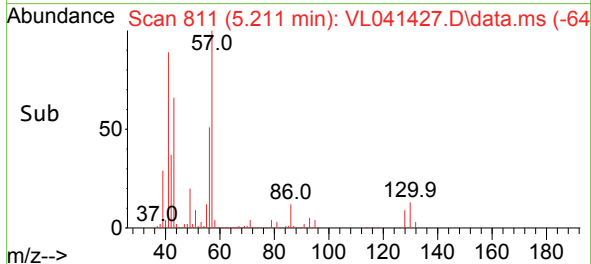
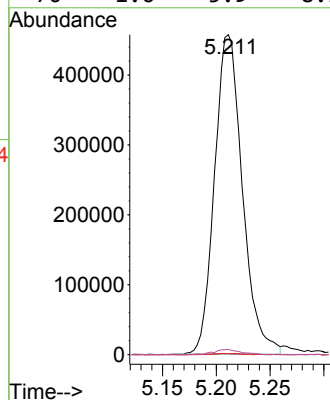
Ion Ratio Lower Upper

43 100

45 0.5 8.5 12.7#

61 0.4 8.0 12.0#

70 1.6 5.9 8.9#



#26

Hexane

Concen: 11.537 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.013 min

Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Tgt Ion: 57 Resp: 1192499

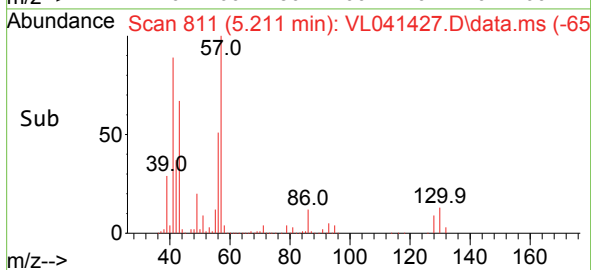
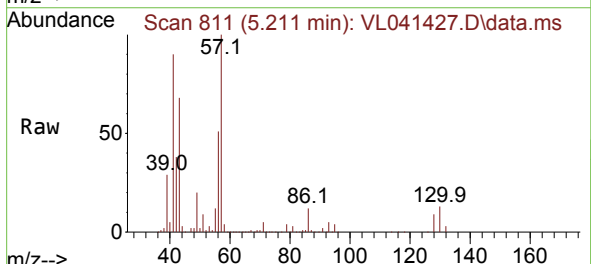
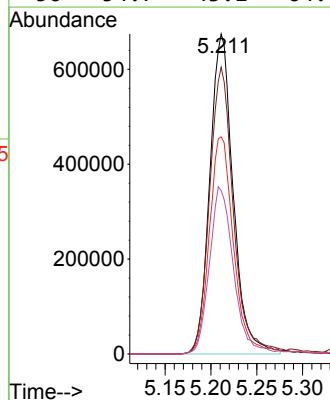
Ion Ratio Lower Upper

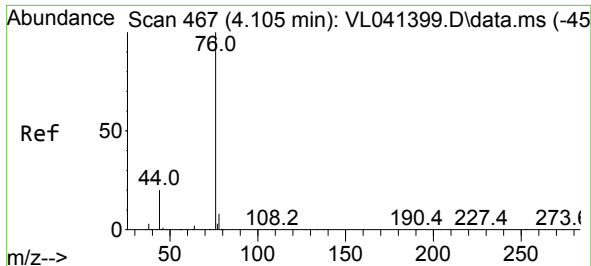
57 100

41 93.4 74.0 111.0

43 71.2 193.6 290.4#

56 54.7 43.1 64.7

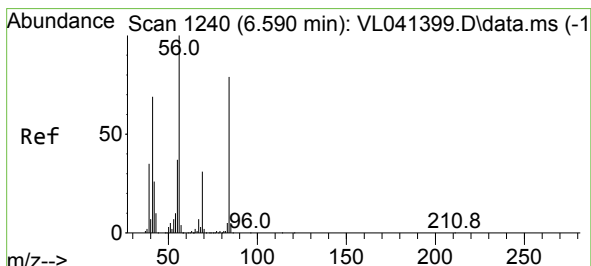
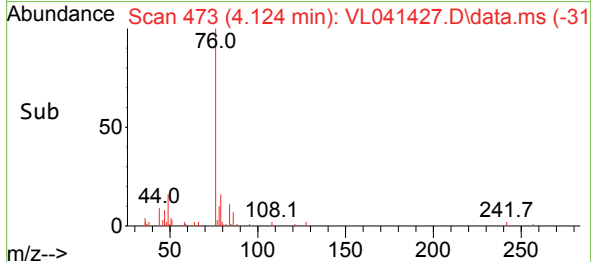
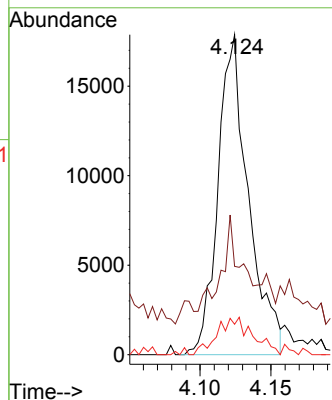
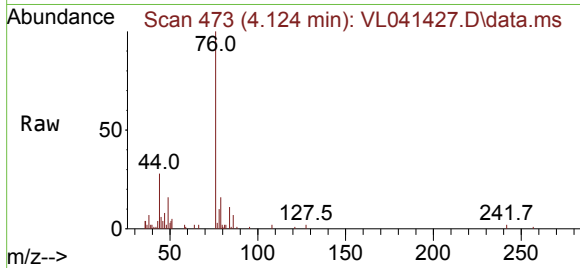




#27
Carbon Disulfide
Concen: 0.221 ppbv
RT: 4.124 min Scan# 41
Delta R.T. 0.016 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

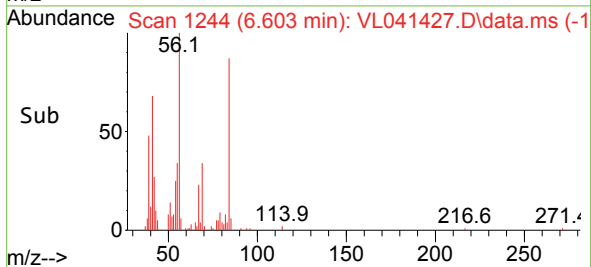
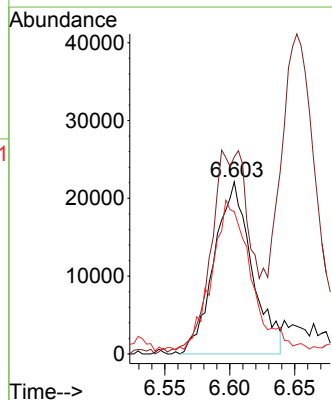
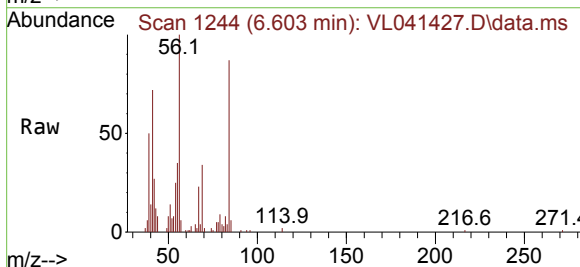
Instrument :
MSVOA_L
ClientSampleId :

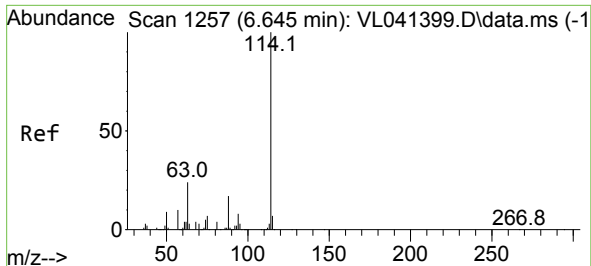
Tgt Ion: 76 Resp: 26730
Ion Ratio Lower Upper
76 100
44 42.9 15.6 23.4#
78 15.2 7.7 11.5#



#30
Cyclohexane
Concen: 0.529 ppbv
RT: 6.603 min Scan# 1244
Delta R.T. 0.010 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

Tgt Ion: 84 Resp: 44532
Ion Ratio Lower Upper
84 100
56 118.8 111.2 166.8
41 90.1 70.3 105.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 114

Delta R.T. 0.007 min

Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Instrument :

MSVOA_L

ClientSampleId :

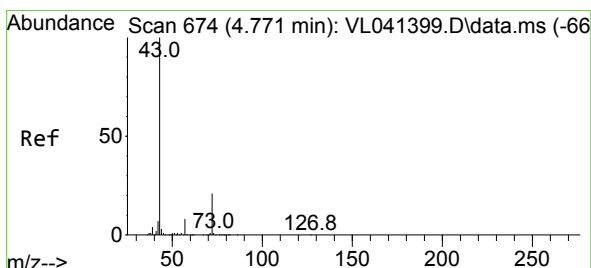
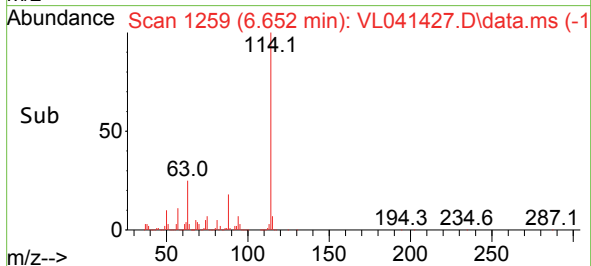
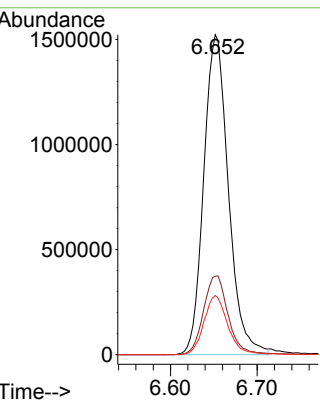
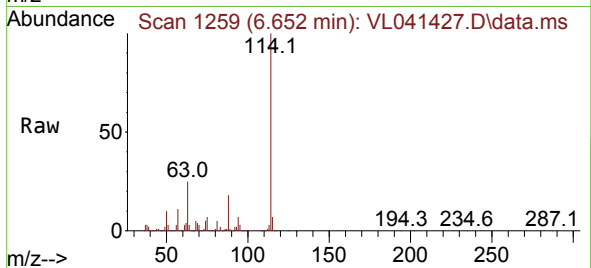
Tgt Ion:114 Resp: 3010832

Ion Ratio Lower Upper

114 100

63 25.0 20.3 30.5

88 18.1 14.3 21.5



#34

2-Butanone

Concen: 0.448 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.013 min

Lab File: VL041427.D

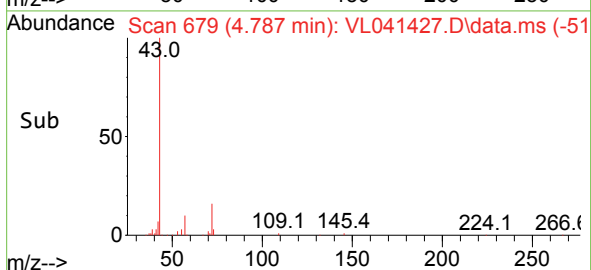
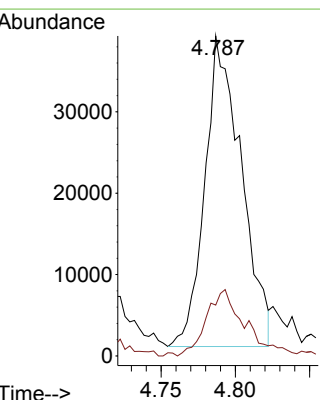
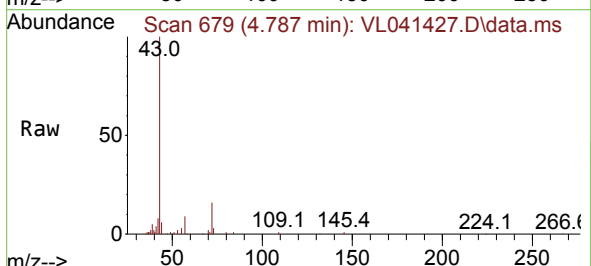
Acq: 29 Jul 2024 13:35

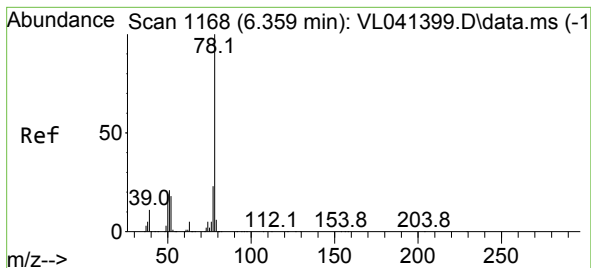
Tgt Ion: 43 Resp: 65209

Ion Ratio Lower Upper

43 100

72 23.2 17.3 25.9





#36

Benzene

Concen: 1.314 ppbv

RT: 6.372 min Scan# 1168

Delta R.T. 0.013 min

Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Instrument :

MSVOA_L

ClientSampleId :

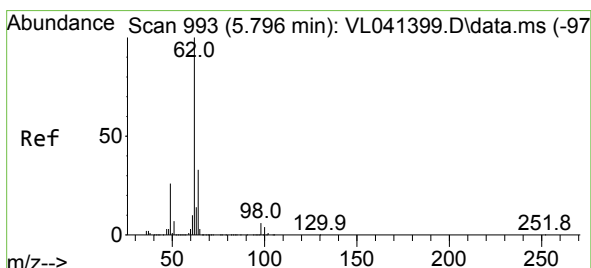
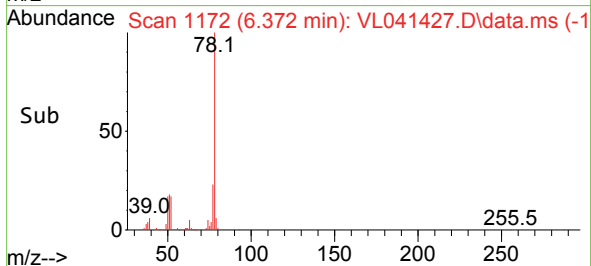
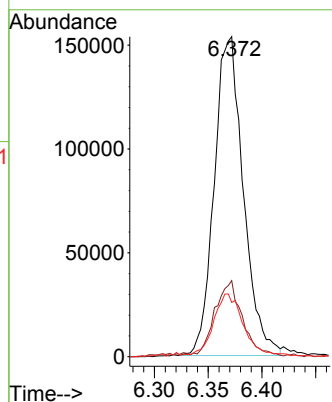
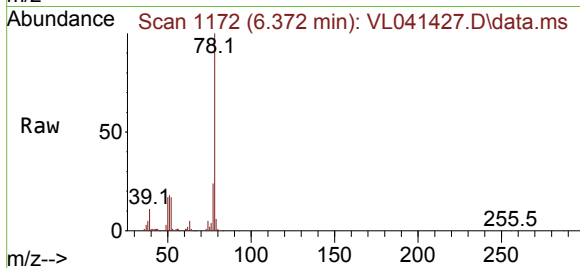
Tgt Ion: 78 Resp: 289004

Ion Ratio Lower Upper

78 100

77 23.4 18.1 27.1

50 16.6 15.5 23.3



#37

1,2-Dichloroethane

Concen: 0.056 ppbv

RT: 5.809 min Scan# 997

Delta R.T. 0.013 min

Lab File: VL041427.D

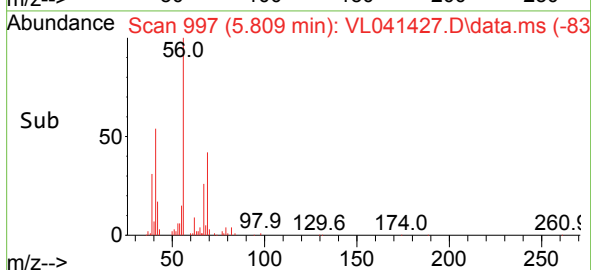
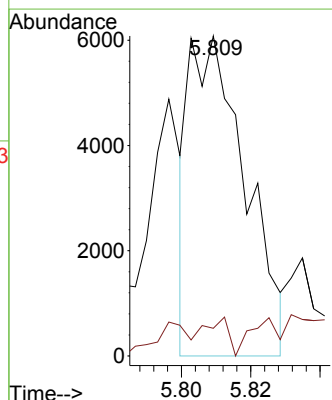
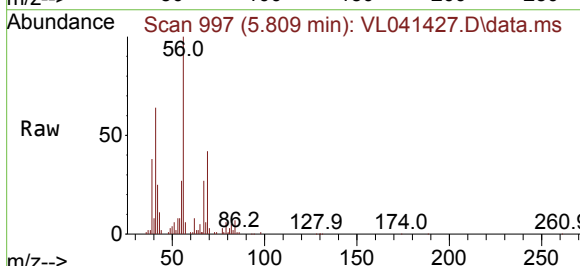
Acq: 29 Jul 2024 13:35

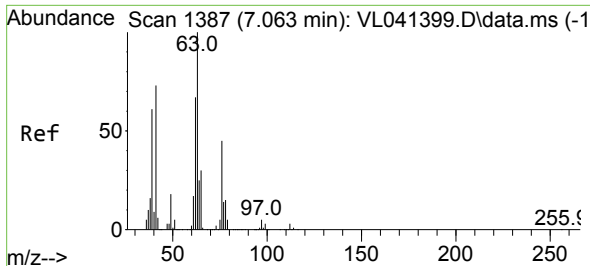
Tgt Ion: 62 Resp: 6844

Ion Ratio Lower Upper

62 100

98 0.0 5.0 7.4#





#39

1,2-Dichloropropane

Concen: 8.656 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.408 min

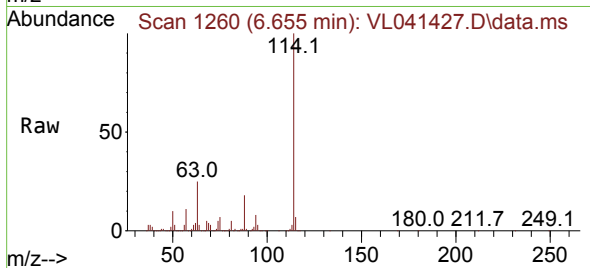
Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Instrument :

MSVOA_L

ClientSampleId :



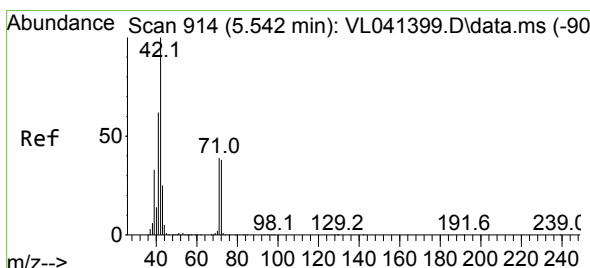
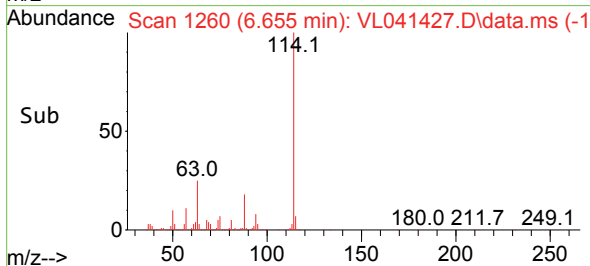
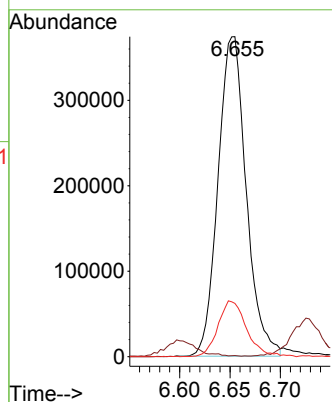
Tgt Ion: 63 Resp: 729091

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 16.7 53.9 80.9#



#41

Tetrahydrofuran

Concen: 0.526 ppbv

RT: 5.812 min Scan# 998

Delta R.T. 0.267 min

Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

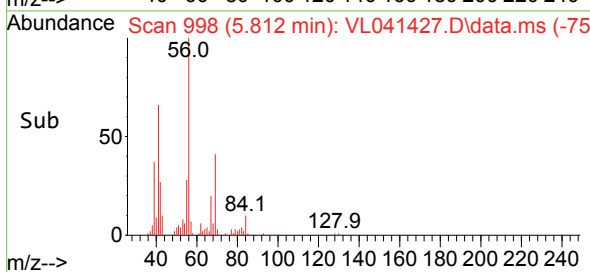
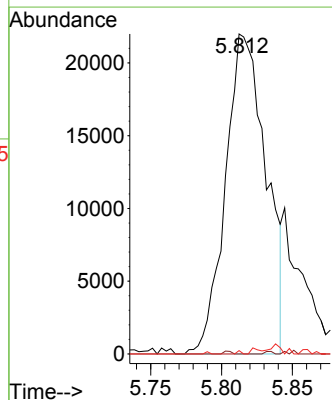
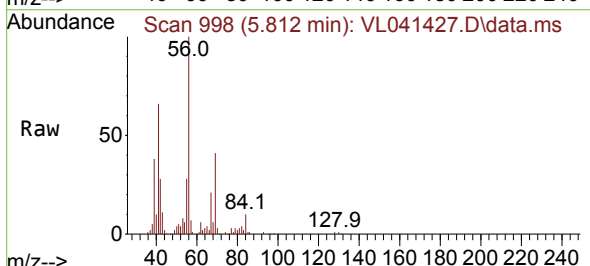
Tgt Ion: 42 Resp: 43795

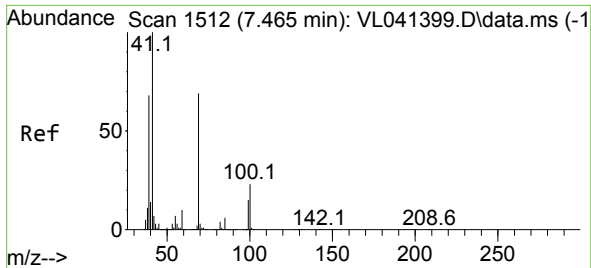
Ion Ratio Lower Upper

42 100

72 0.7 31.2 46.8#

71 0.0 30.5 45.7#

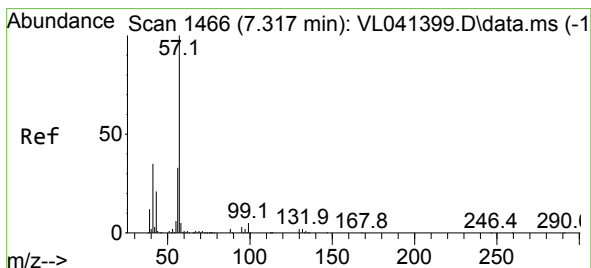
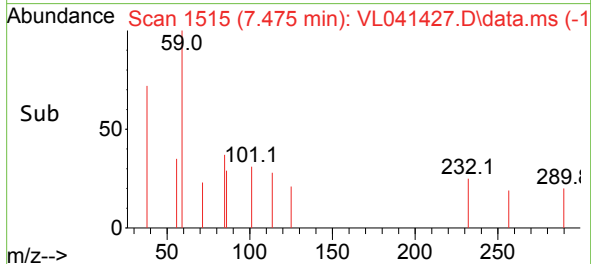
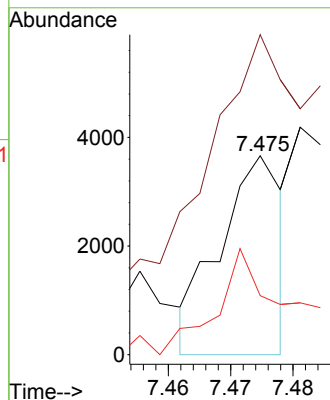
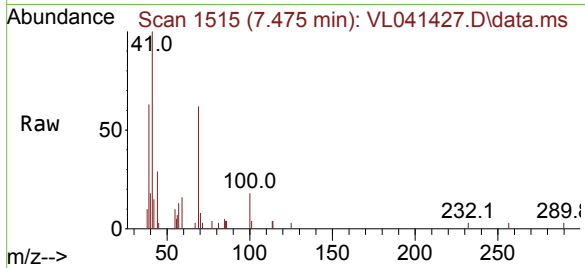




#43
Methyl Methacrylate
Concen: 0.032 ppbv
RT: 7.475 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

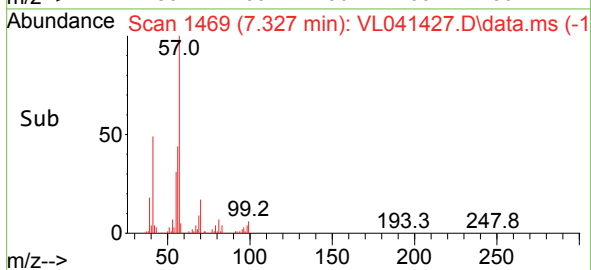
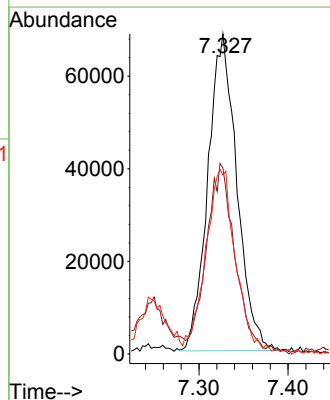
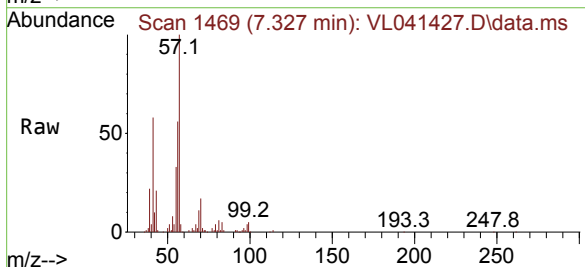
Instrument :
MSVOA_L
ClientSampleId :

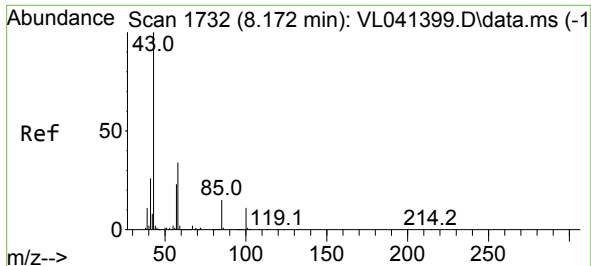
Tgt Ion: 69 Resp: 2554
Ion Ratio Lower Upper
69 100
41 597.8 118.7 178.1#
100 98.7 27.0 40.4#



#44
2,2,4-Trimethylpentane
Concen: 0.420 ppbv
RT: 7.327 min Scan# 1469
Delta R.T. 0.010 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

Tgt Ion: 57 Resp: 154409
Ion Ratio Lower Upper
57 100
41 59.1 27.0 40.6#
56 61.6 25.2 37.8#

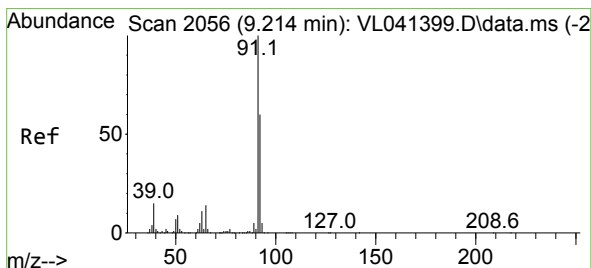
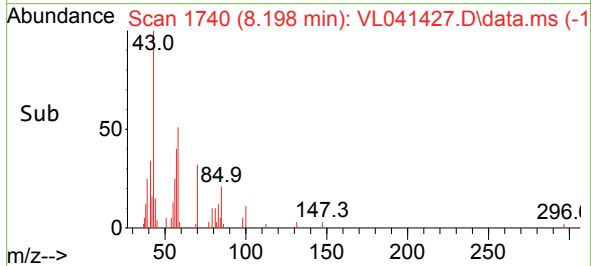
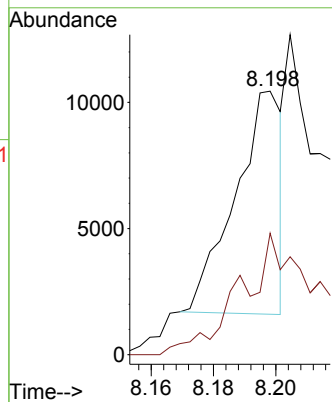
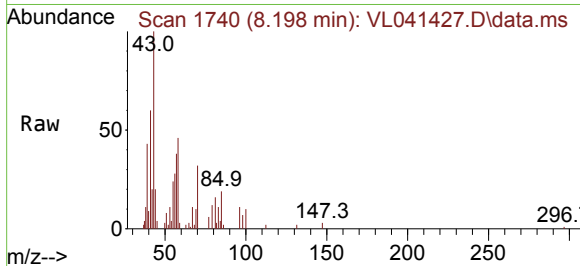




#50
4-Methyl-2-Pentanone
Concen: 0.040 ppbv
RT: 8.198 min Scan# 11
Delta R.T. 0.026 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

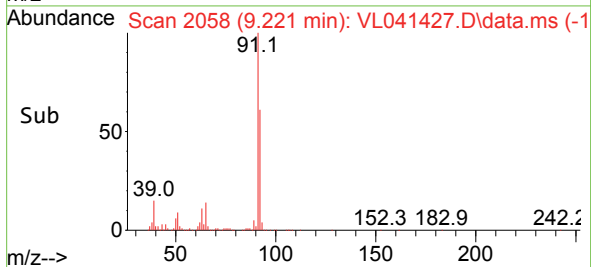
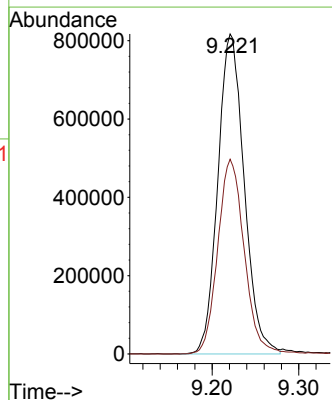
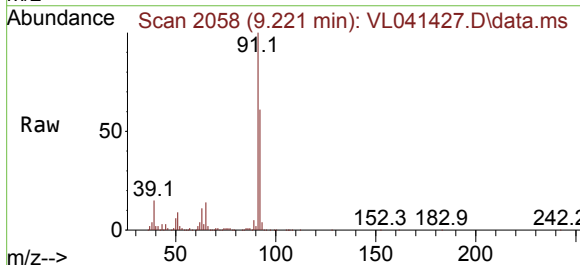
Instrument :
MSVOA_L
ClientSampleId :

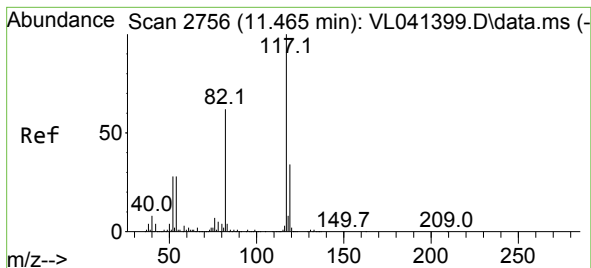
Tgt Ion: 43 Resp: 9161
Ion Ratio Lower Upper
43 100
58 111.7 27.9 41.9#



#53
Toluene
Concen: 7.045 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. 0.003 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

Tgt Ion: 91 Resp: 1726359
Ion Ratio Lower Upper
91 100
92 61.5 48.7 73.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.468 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Instrument :

MSVOA_L

ClientSampleId :

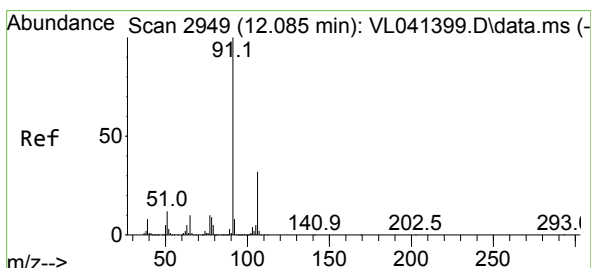
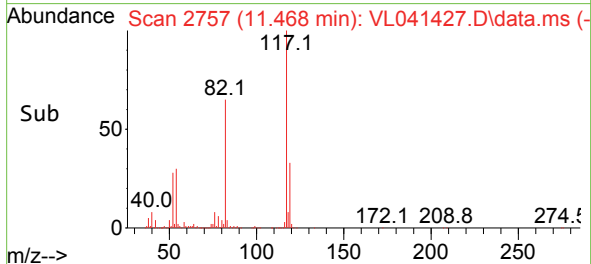
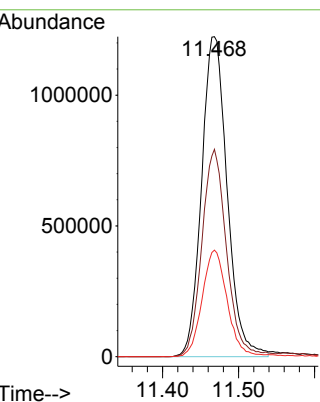
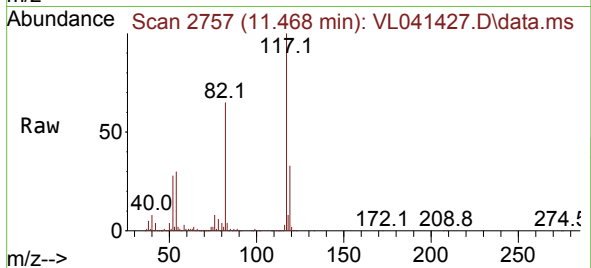
Tgt Ion:117 Resp: 2860903

Ion Ratio Lower Upper

117 100

82 64.5 51.0 76.6

119 33.0 45.2 67.8#



#58

Ethyl Benzene

Concen: 0.473 ppbv

RT: 12.089 min Scan# 2950

Delta R.T. 0.003 min

Lab File: VL041427.D

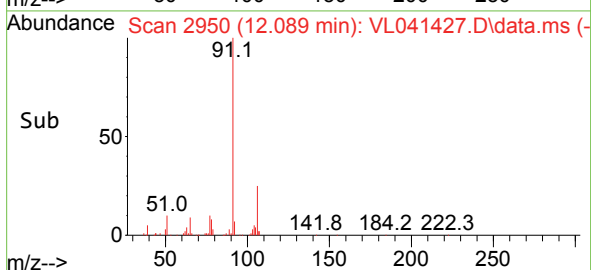
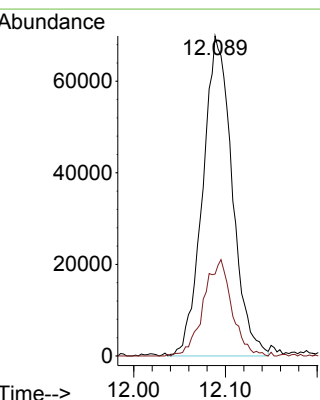
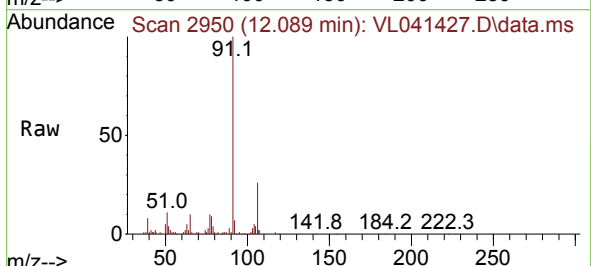
Acq: 29 Jul 2024 13:35

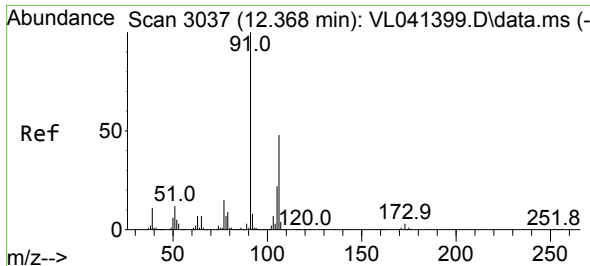
Tgt Ion: 91 Resp: 155943

Ion Ratio Lower Upper

91 100

106 25.6 25.8 38.8#

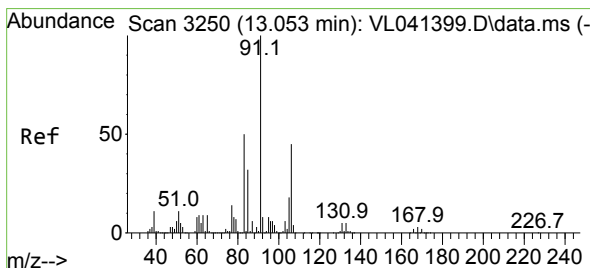
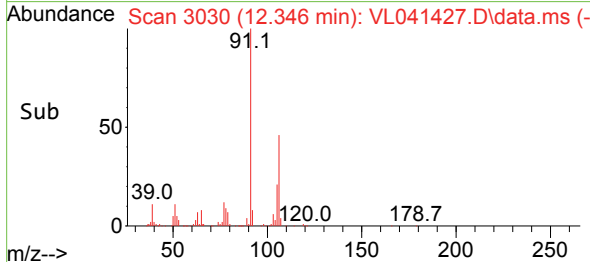
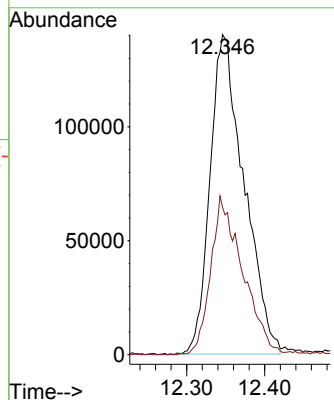
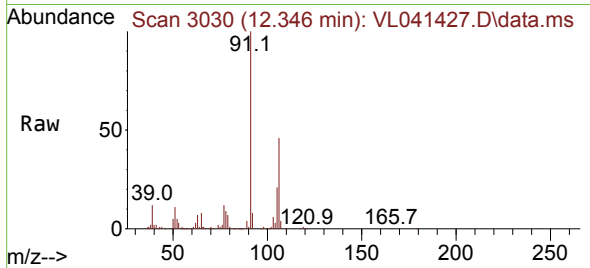




#59
m/p-Xylene
Concen: 1.493 ppbv
RT: 12.346 min Scan# 3030
Delta R.T. -0.022 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

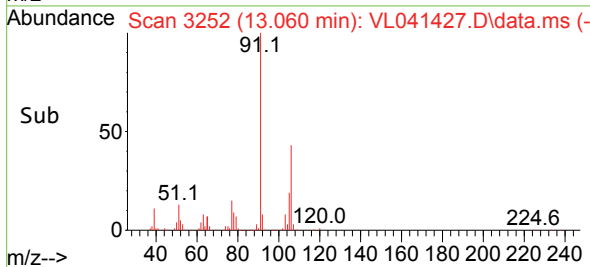
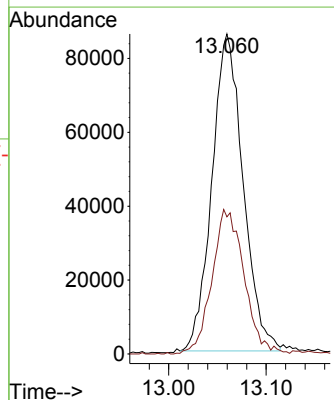
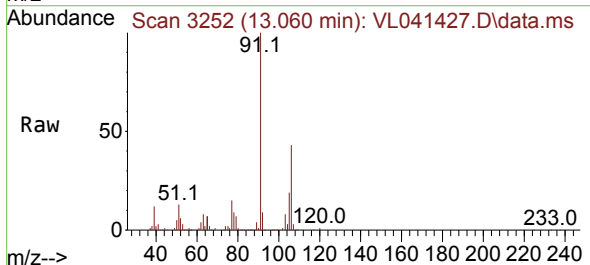
Instrument :
MSVOA_L
ClientSampleId :

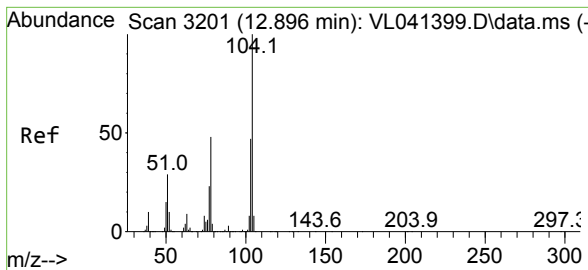
Tgt Ion: 91 Resp: 425126
Ion Ratio Lower Upper
91 100
106 47.2 36.3 54.5



#60
o-Xylene
Concen: 0.710 ppbv
RT: 13.060 min Scan# 3252
Delta R.T. 0.003 min
Lab File: VL041427.D
Acq: 29 Jul 2024 13:35

Tgt Ion: 91 Resp: 191134
Ion Ratio Lower Upper
91 100
106 47.6 23.1 69.3





#61

Styrene

Concen: 2.323 ppbv

RT: 12.902 min Scan# 31

Delta R.T. 0.007 min

Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Instrument :

MSVOA_L

ClientSampleId :

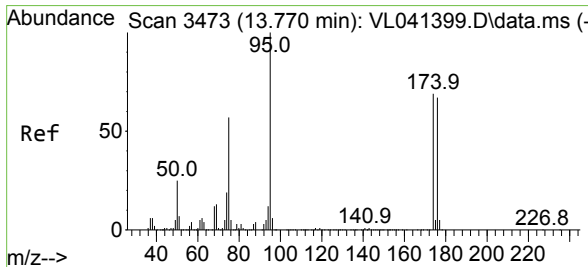
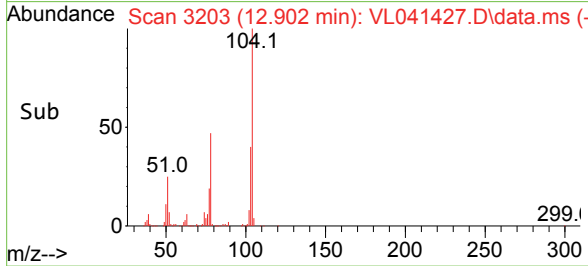
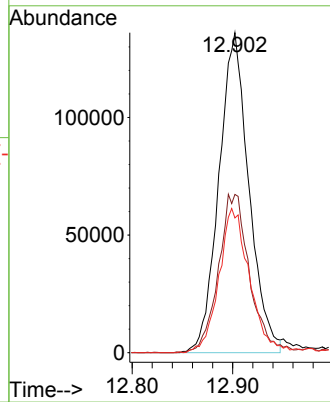
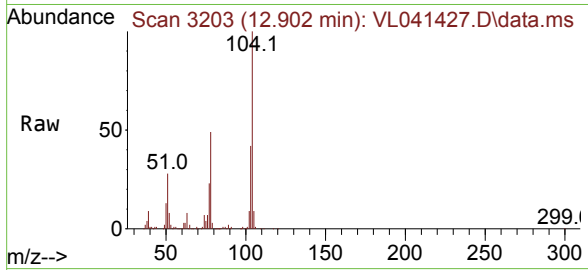
Tgt Ion:104 Resp: 282224

Ion Ratio Lower Upper

104 100

78 51.7 40.8 61.2

103 47.2 38.2 57.4



#68

1-Bromo-4-Fluorobenzene

Concen: 10.068 ppbv

RT: 13.780 min Scan# 3476

Delta R.T. 0.007 min

Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

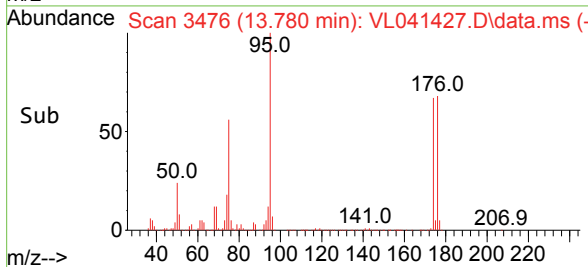
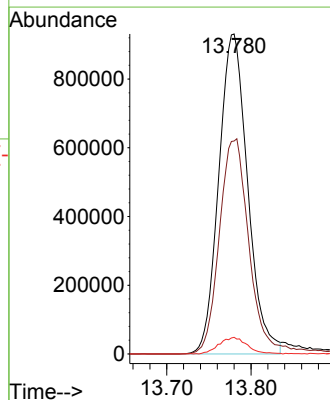
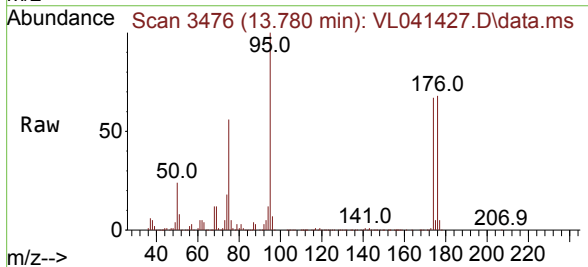
Tgt Ion: 95 Resp: 2216566

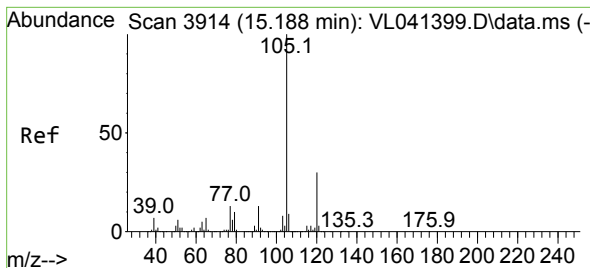
Ion Ratio Lower Upper

95 100

174 71.6 56.3 84.5

175 5.2 4.0 6.0





#72

4-Ethyltoluene

Concen: 0.057 ppbv

RT: 15.201 min Scan# 3918

Delta R.T. 0.010 min

Lab File: VL041427.D

Acq: 29 Jul 2024 13:35

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 18149

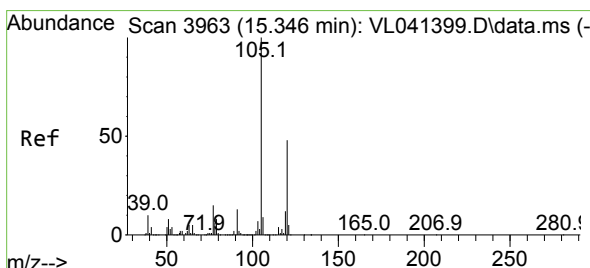
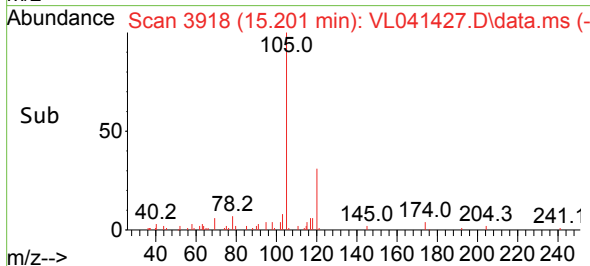
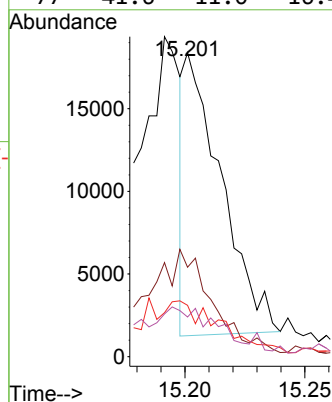
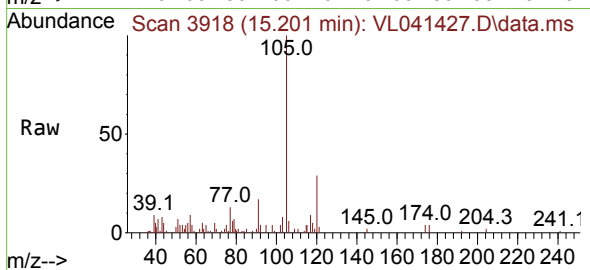
Ion Ratio Lower Upper

105 100

120 74.5 24.2 36.2#

91 0.0 10.4 15.6#

77 41.6 11.0 16.4#



#73

1,3,5-Trimethylbenzene

Concen: 0.123 ppbv

RT: 15.352 min Scan# 3965

Delta R.T. 0.003 min

Lab File: VL041427.D

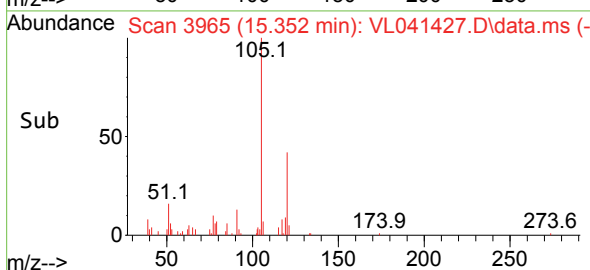
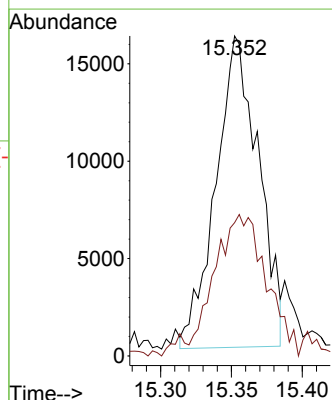
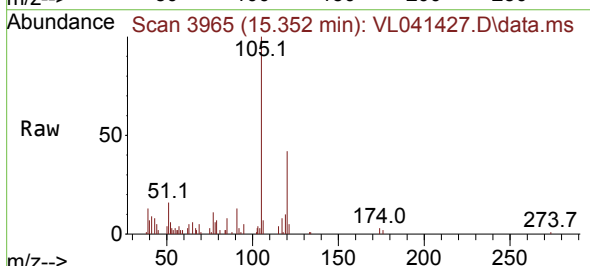
Acq: 29 Jul 2024 13:35

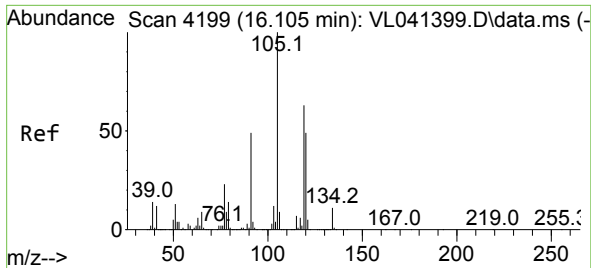
Tgt Ion:105 Resp: 33513

Ion Ratio Lower Upper

105 100

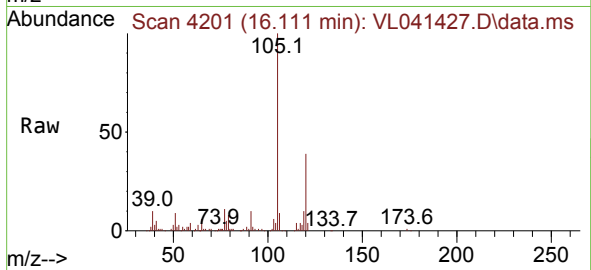
120 36.8 38.6 57.8#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.456 ppbv
 RT: 16.111 min Scan# 4199
 Delta R.T. 0.003 min
 Lab File: VL041427.D
 Acq: 29 Jul 2024 13:35

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	144930
Ion	Ratio	Lower	Upper
105	100		
120	38.5	39.5	59.3#
91	9.3	39.8	59.8#
77	10.6	18.2	27.4#

