

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060424\
 Data File : VL041313.D
 Acq On : 4 Jun 2024 20:09
 Operator : SY/MD
 Sample : P2673-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INSIDE-LOC-3

Quant Time: Jun 05 05:30:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jun 05 04:42:10 2024
 Response via : Initial Calibration

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

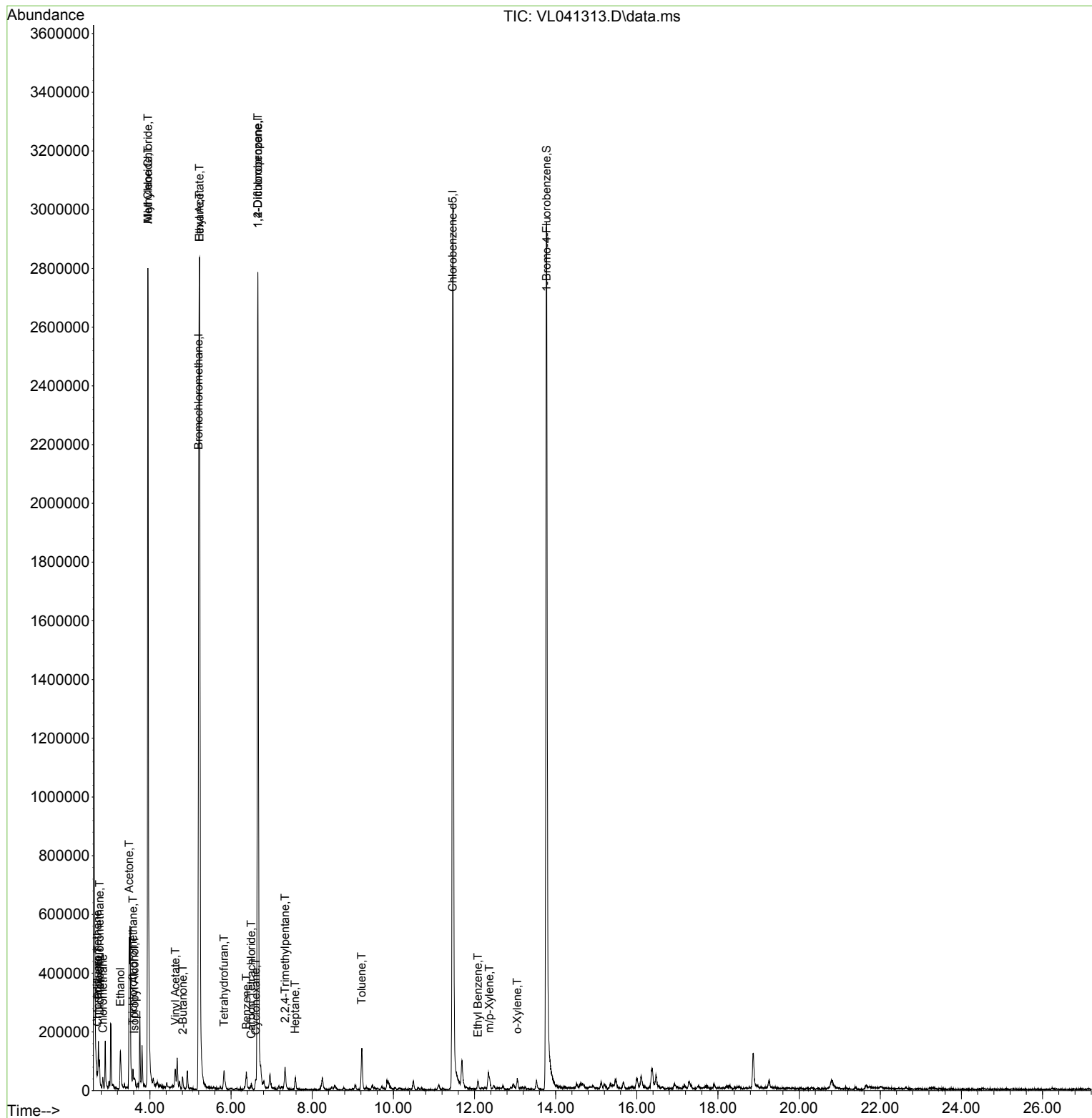
Internal Standards						
1) Bromochloromethane	5.201	49	825375	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2129190	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2011609	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	1519695	9.785	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	52987	0.402	ppbv	91
3) Chlorodifluoromethane	2.703	51	45548	0.349	ppbv #	91
4) Chloromethane	2.838	50	28923	0.589	ppbv #	88
9) Propene	2.729	41	33978	0.731	ppbv	86
10) Heptane	7.581	43	4188	0.038	ppbv #	1
11) Trichlorofluoromethane	3.584	101	30913	0.255	ppbv	99
13) Ethanol	3.272	45	139729	11.560	ppbv	100
15) Acetone	3.488	43	619253	6.571	ppbv	94
19) Isopropyl Alcohol	3.616	45	18761	0.317	ppbv #	95
20) Methylene Chloride	3.951	84	894899	26.127	ppbv	96
21) Allyl Chloride	3.951	41	38130	0.639	ppbv #	24
23) Vinyl Acetate	4.629	43	28042	0.291	ppbv #	25
25) Ethyl Acetate	5.224	43	665240	3.568	ppbv #	78
26) Hexane	5.224	57	923252	11.012	ppbv #	41
30) Cyclohexane	6.607	84	2958	0.044	ppbv #	1
34) 2-Butanone	4.812	43	13078	0.128	ppbv #	1
35) Carbon Tetrachloride	6.497	117	6960	0.058	ppbv	89
36) Benzene	6.378	78	37811	0.229	ppbv #	87
39) 1,2-Dichloropropane	6.658	63	529575	8.059	ppbv #	25
41) Tetrahydrofuran	5.825	42	6833	0.103	ppbv #	37
44) 2,2,4-Trimethylpentane	7.330	57	55805	0.197	ppbv #	77
53) Toluene	9.217	91	52325	0.276	ppbv #	20
58) Ethyl Benzene	12.085	91	9652	0.037	ppbv	92
59) m/p-Xylene	12.365	91	8822	0.040	ppbv #	31
60) o-Xylene	13.053	91	14523	0.069	ppbv #	56

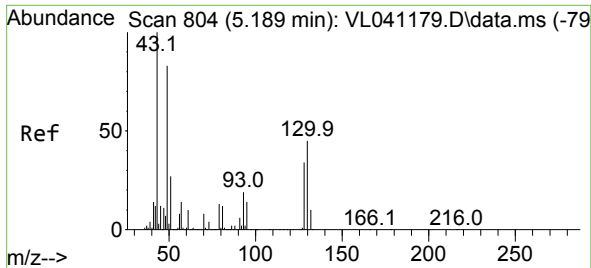
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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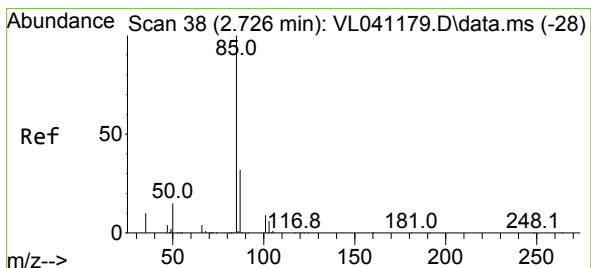
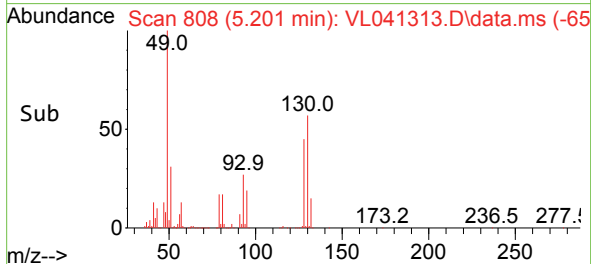
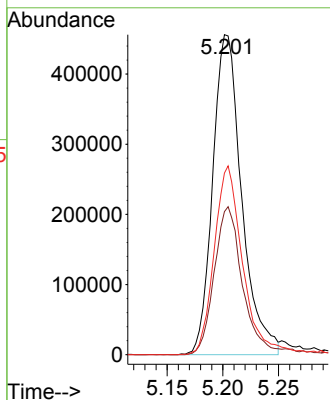
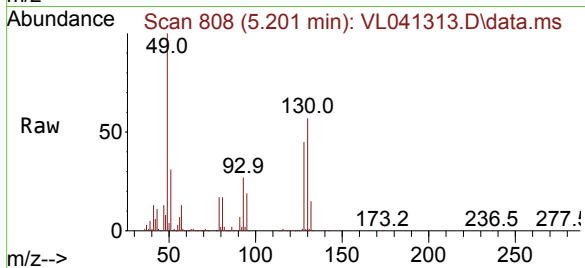




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.201 min Scan# 80
 Delta R.T. -0.004 min
 Lab File: VL041313.D
 Acq: 4 Jun 2024 20:09

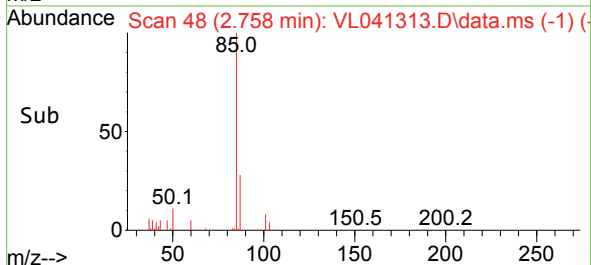
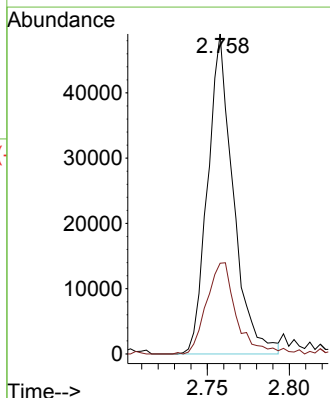
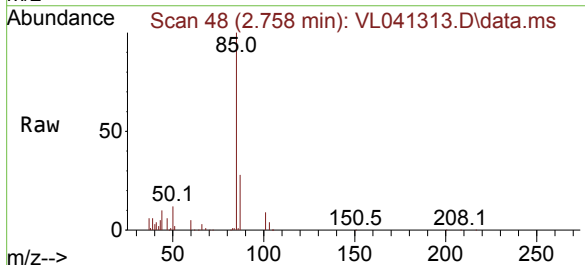
Instrument :
 MSVOA_L
 ClientSampleId :
 INSIDE-LOC-3

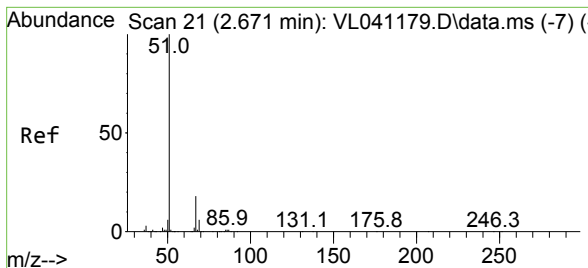
Tgt Ion: 49 Resp: 825375
 Ion Ratio Lower Upper
 49 100
 128 46.8 22.8 68.3
 130 59.4 28.4 85.3



#2
 Dichlorodifluoromethane
 Concen: 0.402 ppbv
 RT: 2.758 min Scan# 48
 Delta R.T. 0.000 min
 Lab File: VL041313.D
 Acq: 4 Jun 2024 20:09

Tgt Ion: 85 Resp: 52987
 Ion Ratio Lower Upper
 85 100
 87 27.9 26.5 39.7





#3

Chlorodifluoromethane

Concen: 0.349 ppbv

RT: 2.703 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL041313.D

Acq: 4 Jun 2024 20:09

Instrument :

MSVOA_L

ClientSampleId :

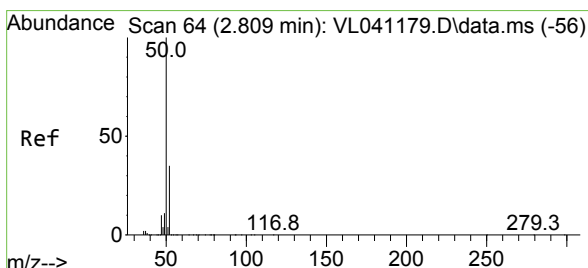
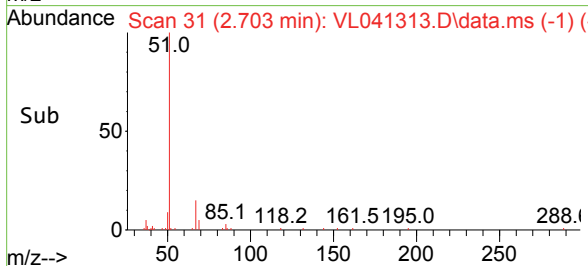
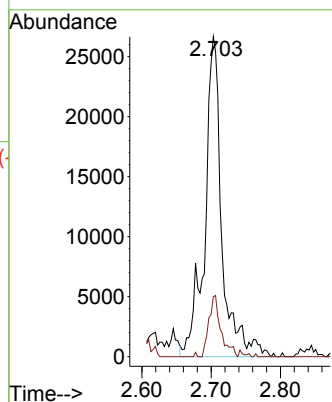
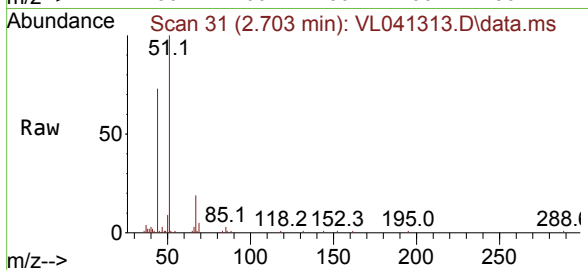
INSIDE-LOC-3

Tgt Ion: 51 Resp: 45548

Ion Ratio Lower Upper

51 100

67 14.2 14.7 22.1#



#4

Chloromethane

Concen: 0.589 ppbv

RT: 2.838 min Scan# 73

Delta R.T. 0.000 min

Lab File: VL041313.D

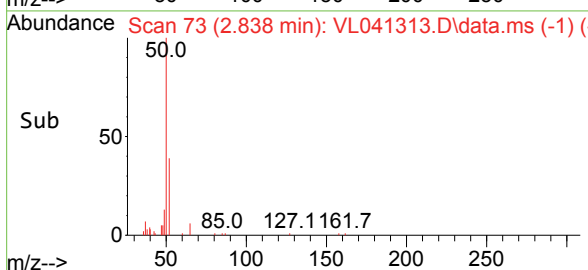
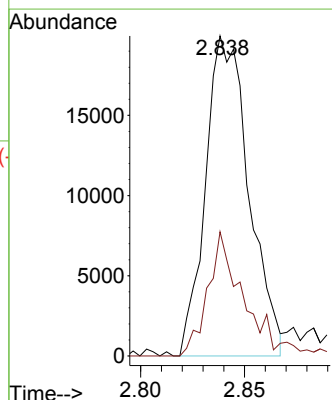
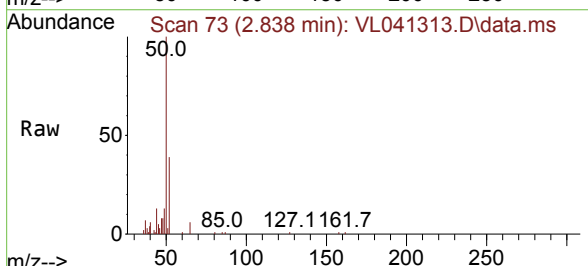
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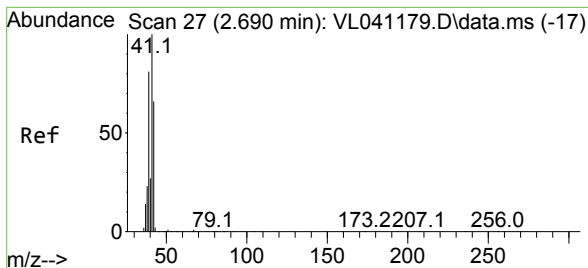
Tgt Ion: 50 Resp: 28923

Ion Ratio Lower Upper

50 100

52 38.8 25.6 38.4#





#9

Propene

Concen: 0.731 ppbv

RT: 2.729 min Scan# 39

Delta R.T. 0.006 min

Lab File: VL041313.D

Acq: 4 Jun 2024 20:09

Instrument :

MSVOA_L

ClientSampleId :

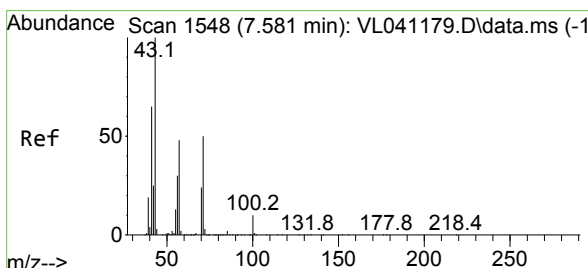
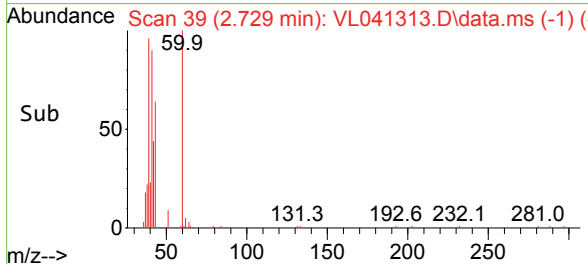
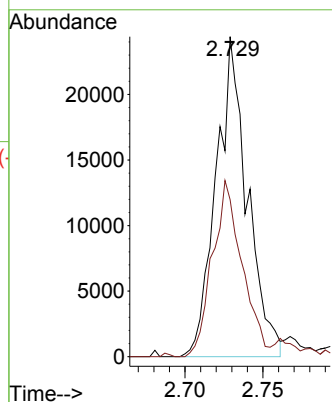
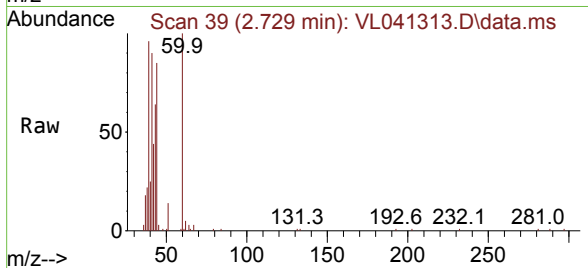
INSIDE-LOC-3

Tgt Ion: 41 Resp: 33978

Ion Ratio Lower Upper

41 100

42 57.9 55.2 82.8



#10

Heptane

Concen: 0.038 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. -0.000 min

Lab File: VL041313.D

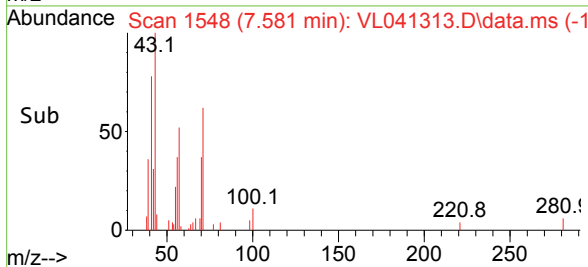
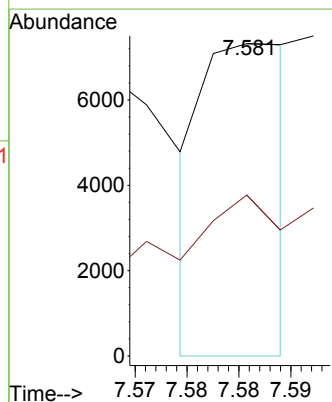
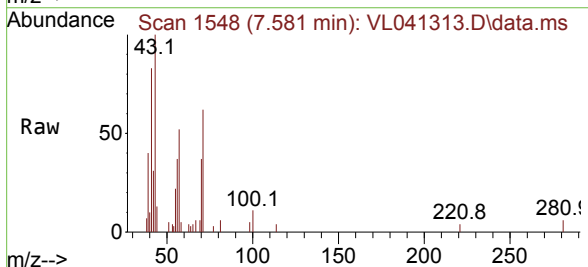
Acq: 4 Jun 2024 20:09

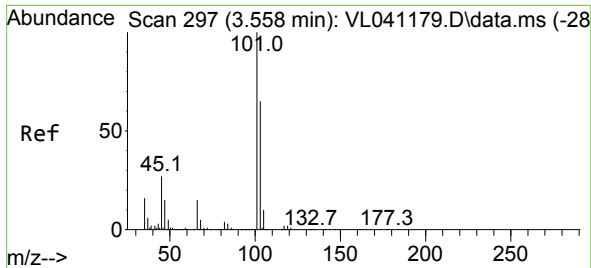
Tgt Ion: 43 Resp: 4188

Ion Ratio Lower Upper

43 100

57 213.5 39.0 58.4#

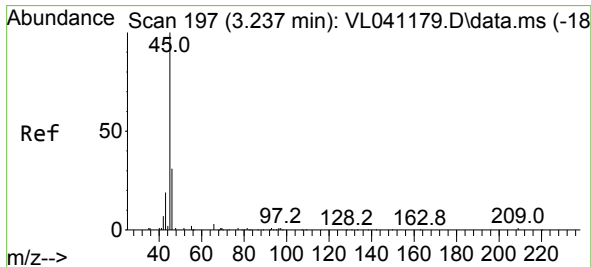
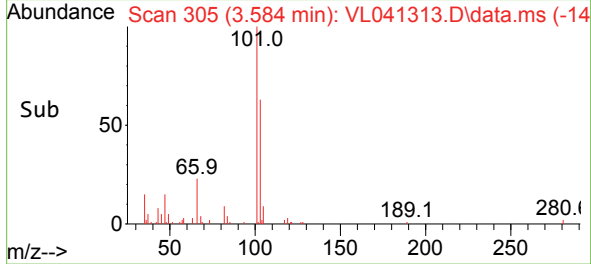
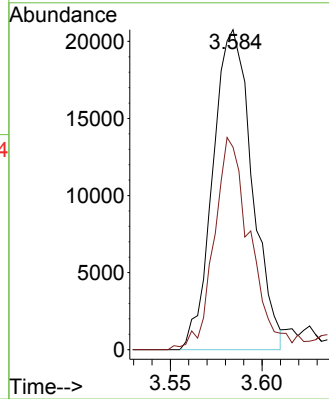
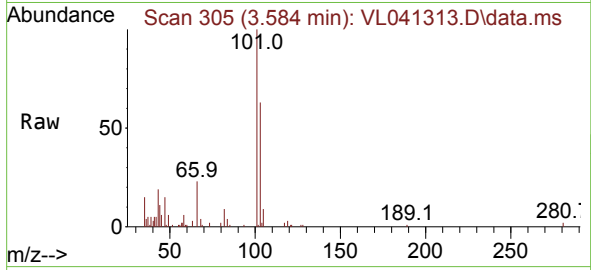




#11
 Trichlorofluoromethane
 Concen: 0.255 ppbv
 RT: 3.584 min Scan# 305
 Delta R.T. 0.000 min
 Lab File: VL041313.D
 Acq: 4 Jun 2024 20:09

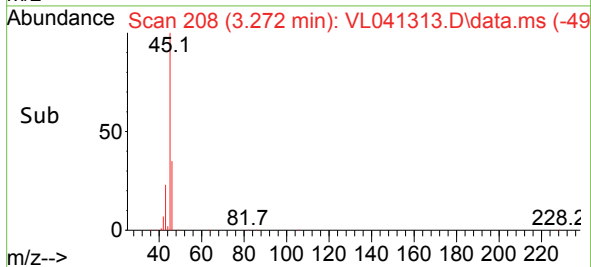
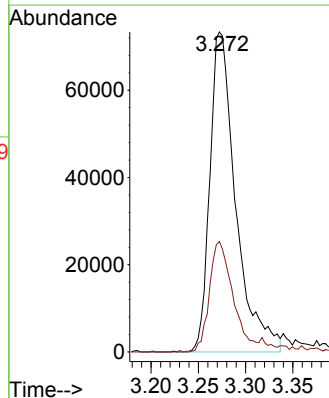
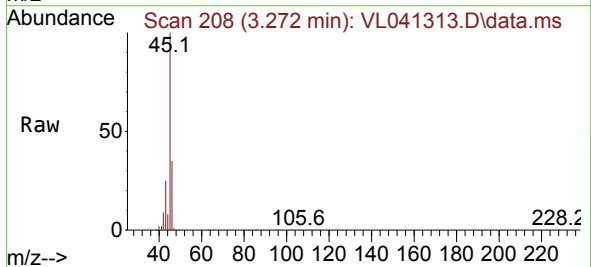
Instrument :
 MSVOA_L
 ClientSampleId :
 INSIDE-LOC-3

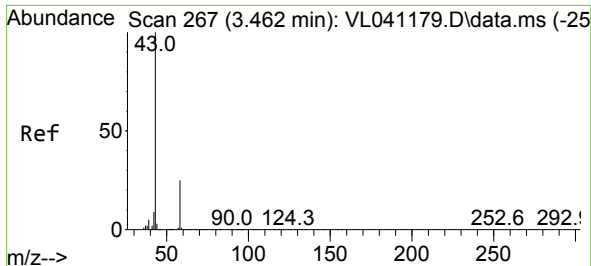
Tgt Ion:101 Resp: 30913
 Ion Ratio Lower Upper
 101 100
 103 62.4 50.6 76.0



#13
 Ethanol
 Concen: 11.560 ppbv
 RT: 3.272 min Scan# 208
 Delta R.T. 0.010 min
 Lab File: VL041313.D
 Acq: 4 Jun 2024 20:09

Tgt Ion: 45 Resp: 139729
 Ion Ratio Lower Upper
 45 100
 46 35.2 14.2 56.6





#15

Acetone

Concen: 6.571 ppbv

RT: 3.488 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL041313.D

Acq: 4 Jun 2024 20:09

Instrument :

MSVOA_L

ClientSampleId :

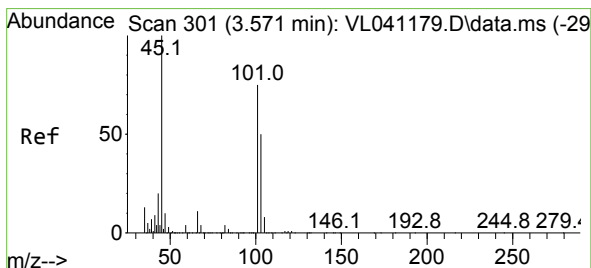
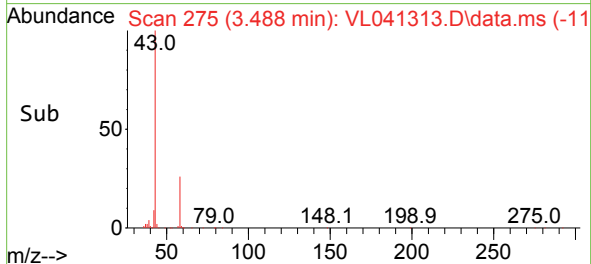
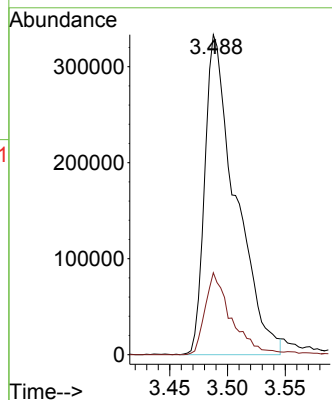
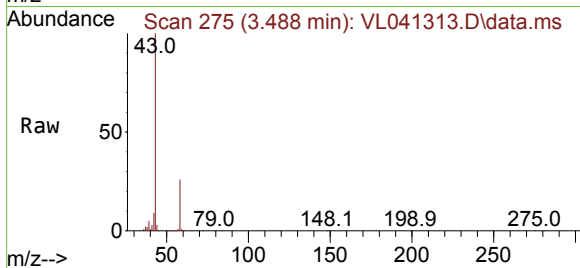
INSIDE-LOC-3

Tgt Ion: 43 Resp: 619253

Ion Ratio Lower Upper

43 100

58 22.5 20.6 31.0



#19

Isopropyl Alcohol

Concen: 0.317 ppbv

RT: 3.616 min Scan# 315

Delta R.T. 0.022 min

Lab File: VL041313.D

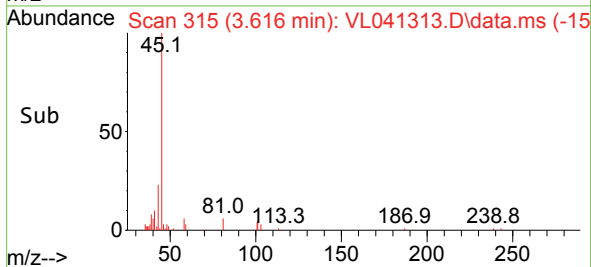
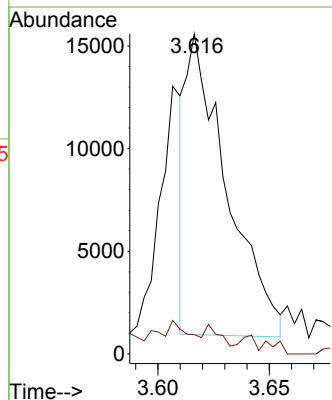
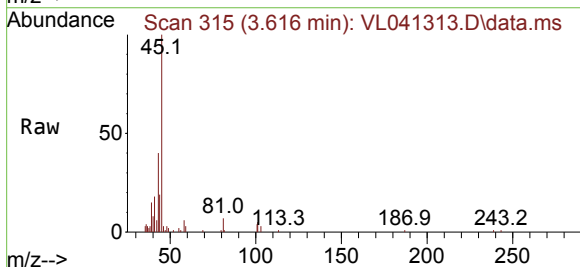
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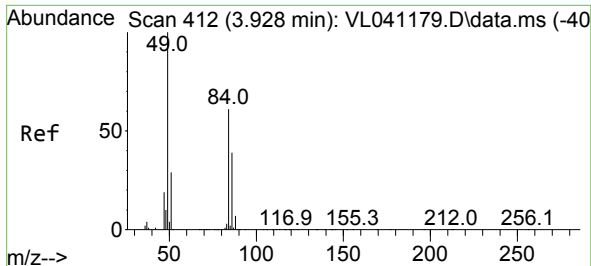
Tgt Ion: 45 Resp: 18761

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#

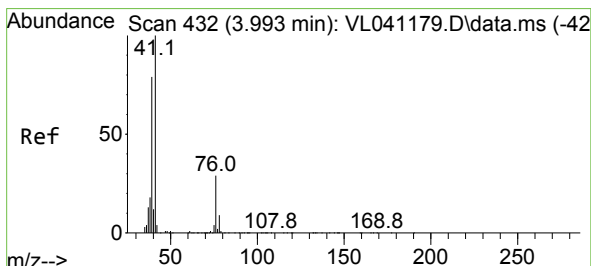
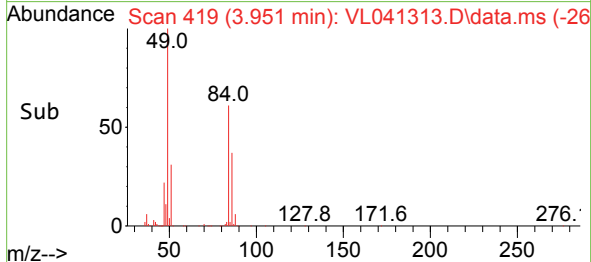
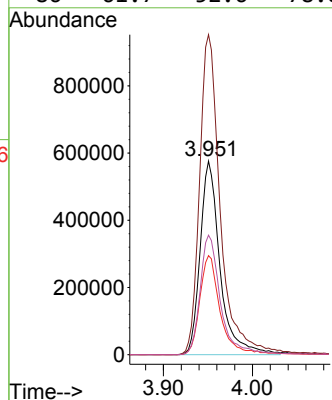
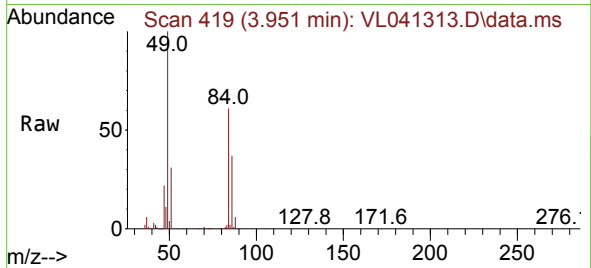




#20
Methylene Chloride
Concen: 26.127 ppbv
RT: 3.951 min Scan# 419
Delta R.T. -0.000 min
Lab File: VL041313.D
Acq: 4 Jun 2024 20:09

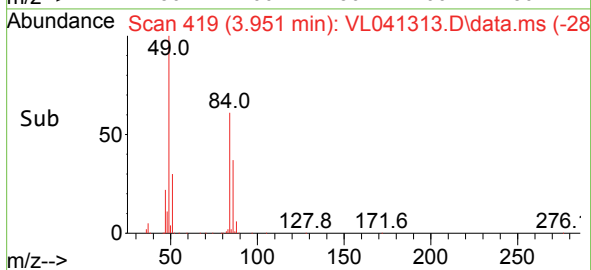
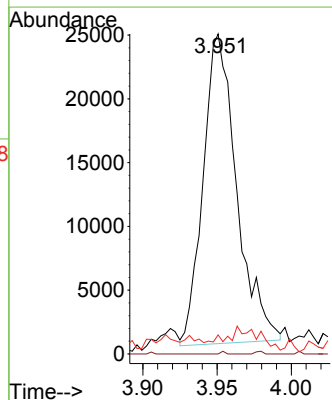
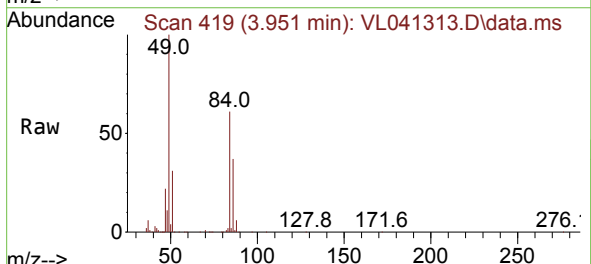
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ClientSampleId :
INSIDE-LOC-3

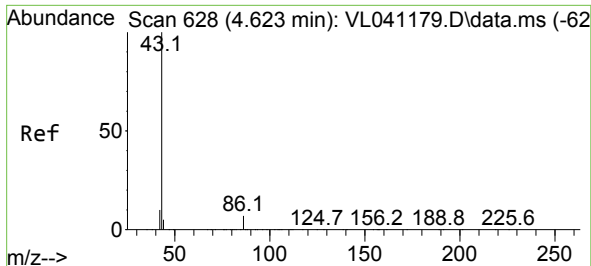
Tgt Ion: 84 Resp: 894899
Ion Ratio Lower Upper
84 100
49 165.0 136.2 204.2
51 51.0 41.9 62.9
86 61.7 52.6 78.8



#21
Allyl Chloride
Concen: 0.639 ppbv
RT: 3.951 min Scan# 419
Delta R.T. -0.061 min
Lab File: VL041313.D
Acq: 4 Jun 2024 20:09

Tgt Ion: 41 Resp: 38130
Ion Ratio Lower Upper
41 100
76 0.0 22.3 33.5#
39 7.9 66.3 99.5#

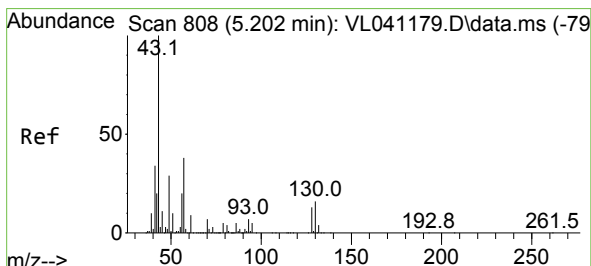
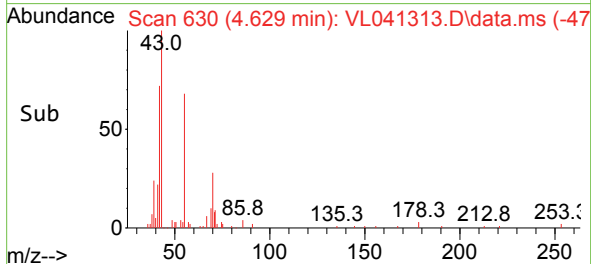
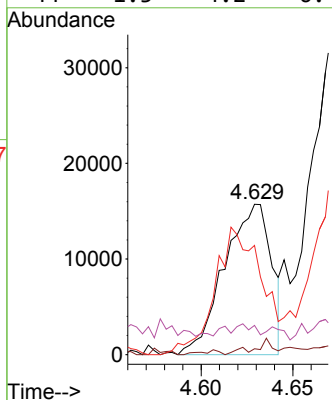
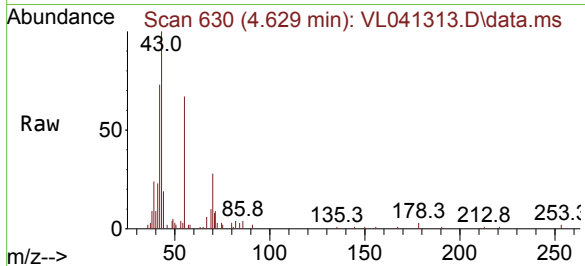




#23
Vinyl Acetate
Concen: 0.291 ppbv
RT: 4.629 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL041313.D
Acq: 4 Jun 2024 20:09

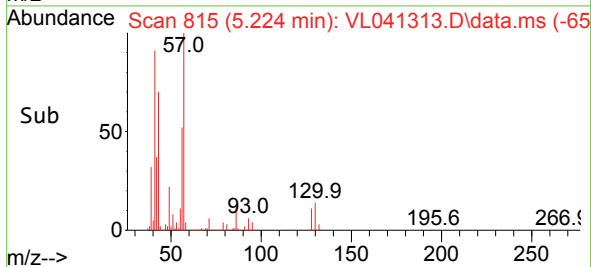
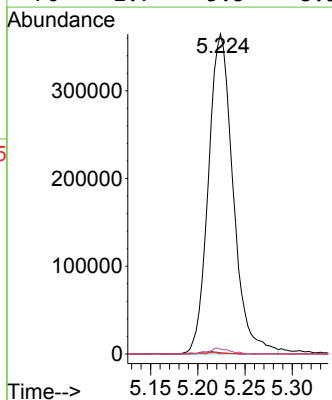
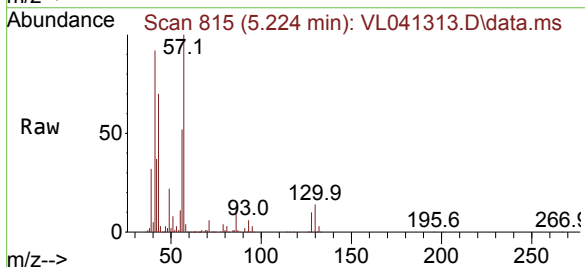
Instrument :
MSVOA_1
ClientSampleId :
INSIDE-LOC-3

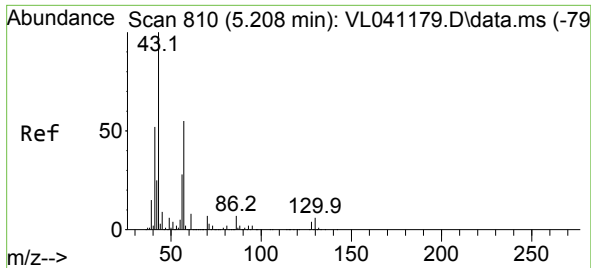
Tgt Ion:	43	Resp:	28042
Ion	Ratio	Lower	Upper
43	100		
86	4.0	4.7	7.1#
42	65.2	8.0	12.0#
44	1.3	4.2	6.4#



#25
Ethyl Acetate
Concen: 3.568 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.010 min
Lab File: VL041313.D
Acq: 4 Jun 2024 20:09

Tgt Ion:	43	Resp:	665240
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.1	12.1#
61	0.4	7.4	11.0#
70	1.7	5.5	8.3#

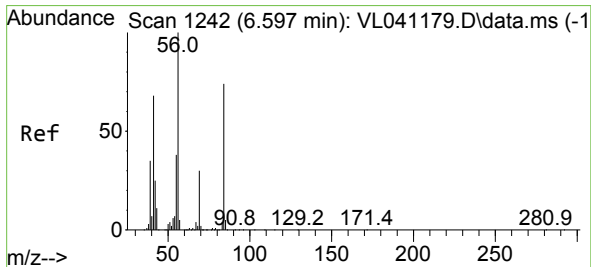
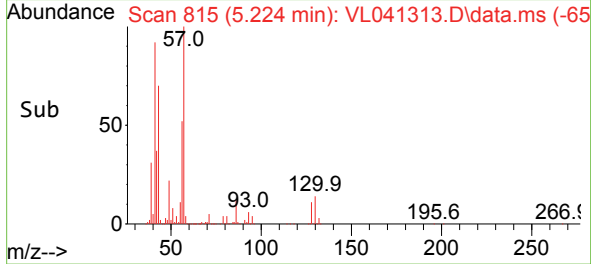
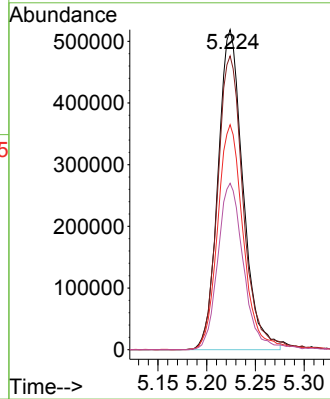
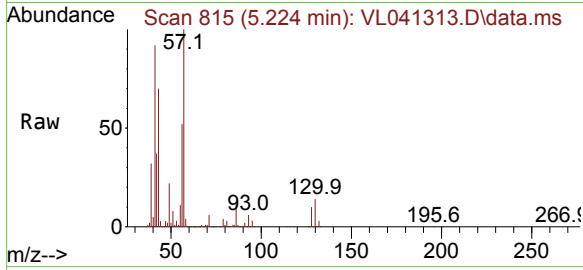




#26
Hexane
Concen: 11.012 ppbv
RT: 5.224 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL041313.D
Acq: 4 Jun 2024 20:09

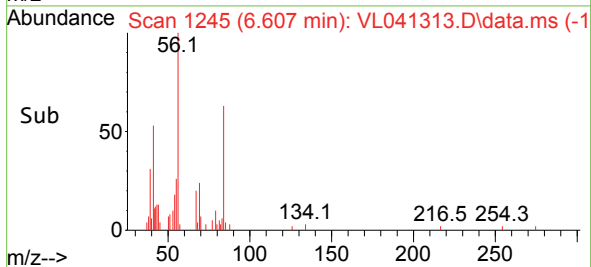
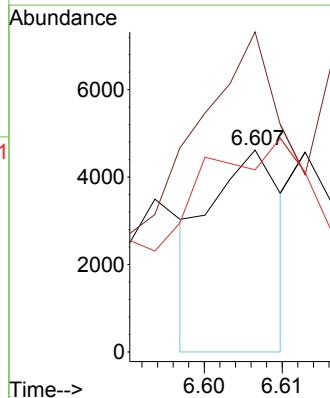
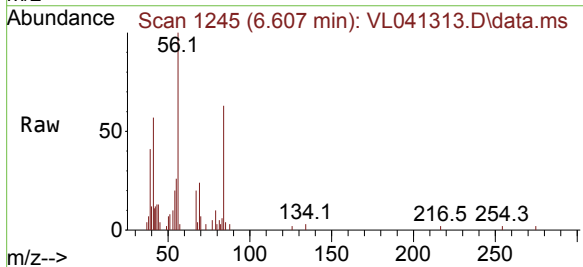
Instrument :
MSVOA_L
ClientSampleId :
INSIDE-LOC-3

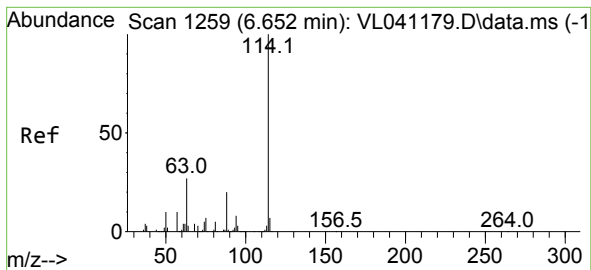
Tgt Ion:	57	Resp:	923252
Ion	Ratio	Lower	Upper
57	100		
41	95.7	77.1	115.7
43	73.1	186.1	279.1#
56	54.2	42.9	64.3



#30
Cyclohexane
Concen: 0.044 ppbv
RT: 6.607 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VL041313.D
Acq: 4 Jun 2024 20:09

Tgt Ion:	84	Resp:	2958
Ion	Ratio	Lower	Upper
84	100		
56	389.7	114.9	172.3#
41	0.0	74.4	111.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.658 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041313.D

Acq: 4 Jun 2024 20:09

Instrument :

MSVOA_L

ClientSampleId :

INSIDE-LOC-3

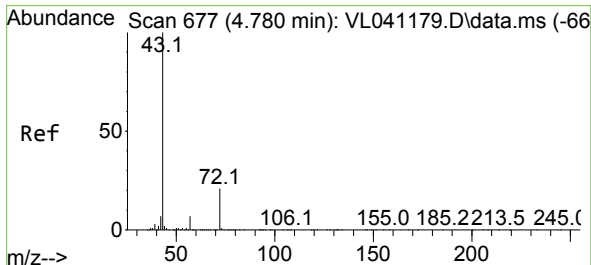
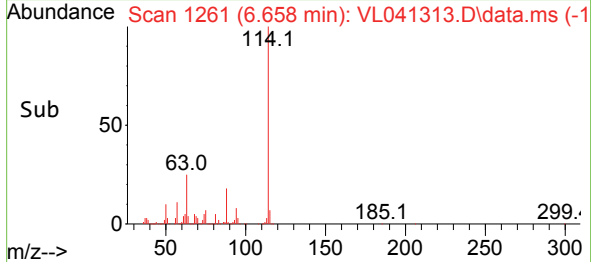
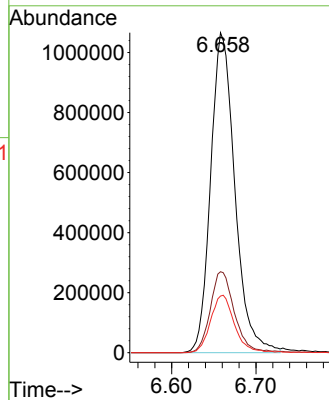
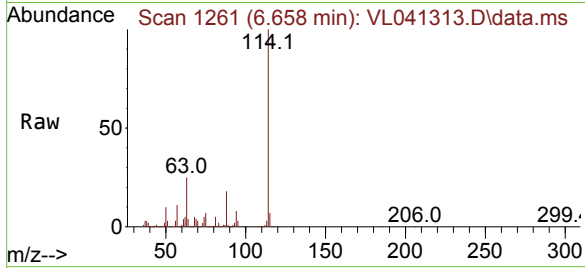
Tgt Ion:114 Resp: 2129190

Ion Ratio Lower Upper

114 100

63 25.5 20.6 30.8

88 17.8 14.5 21.7



#34

2-Butanone

Concen: 0.128 ppbv

RT: 4.812 min Scan# 687

Delta R.T. 0.016 min

Lab File: VL041313.D

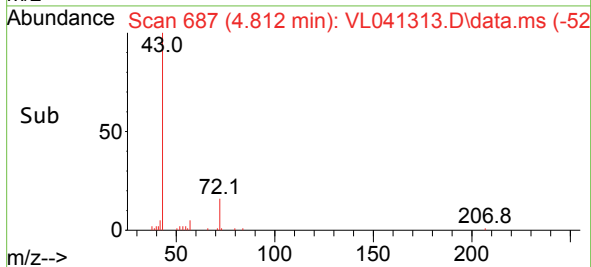
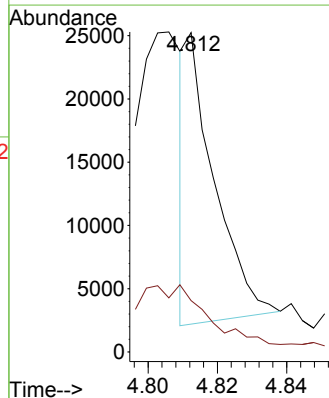
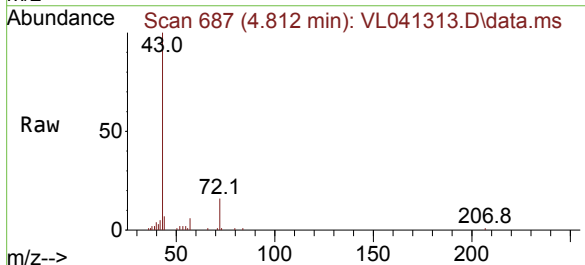
Acq: 4 Jun 2024 20:09

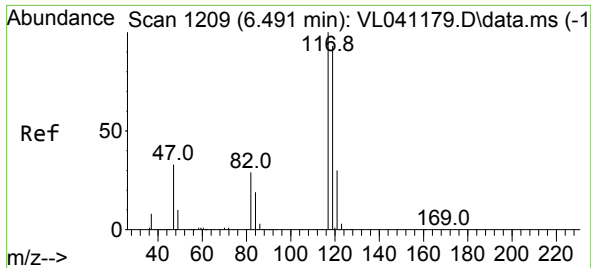
Tgt Ion: 43 Resp: 13078

Ion Ratio Lower Upper

43 100

72 77.6 17.4 26.0#

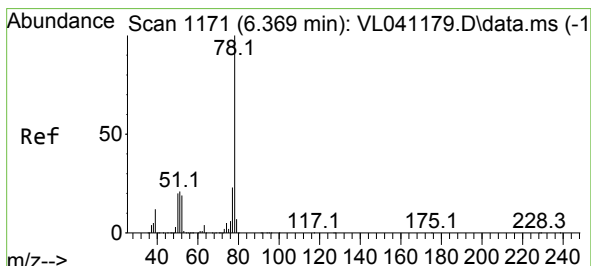
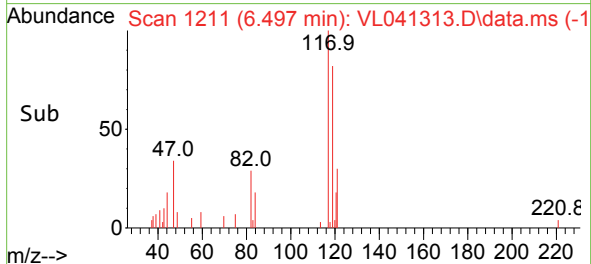
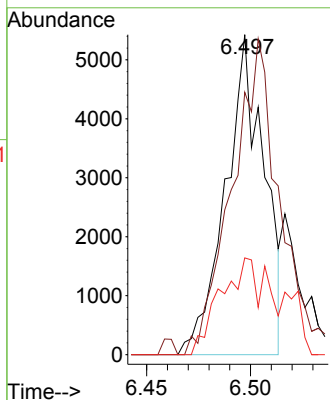
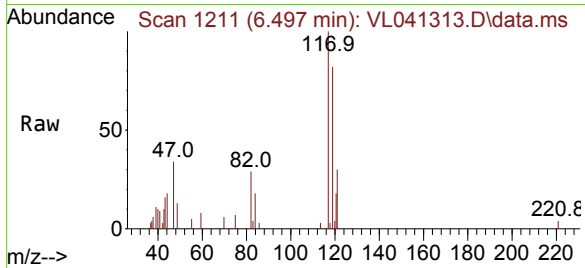




#35
Carbon Tetrachloride
Concen: 0.058 ppbv
RT: 6.497 min Scan# 1174
Delta R.T. -0.003 min
Lab File: VL041313.D
Acq: 4 Jun 2024 20:09

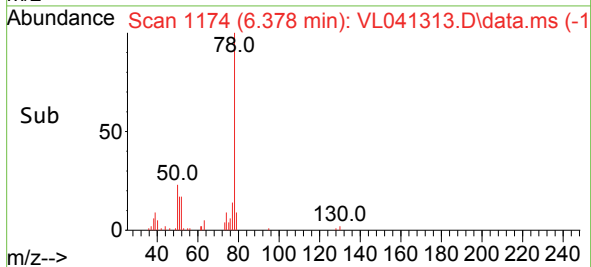
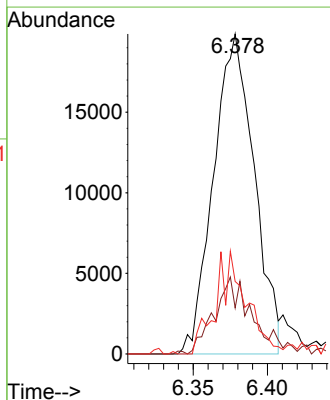
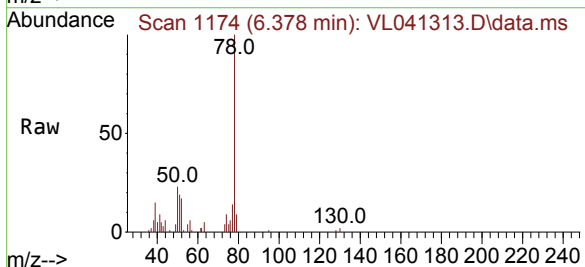
Instrument :
MSVOA_L
ClientSampleId :
INSIDE-LOC-3

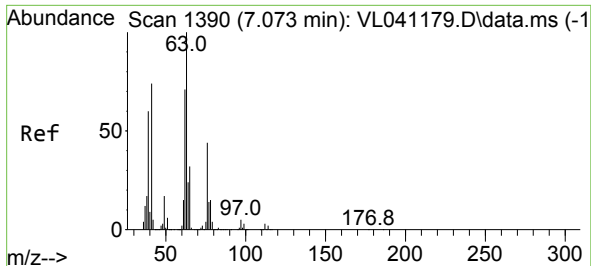
Tgt Ion:117 Resp: 6960
Ion Ratio Lower Upper
117 100
119 79.7 74.0 111.0
121 29.4 24.8 37.2



#36
Benzene
Concen: 0.229 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. 0.000 min
Lab File: VL041313.D
Acq: 4 Jun 2024 20:09

Tgt Ion: 78 Resp: 37811
Ion Ratio Lower Upper
78 100
77 13.5 18.6 28.0#
50 22.6 16.0 24.0





#39

1,2-Dichloropropane

Concen: 8.059 ppbv

RT: 6.658 min Scan# 11

Delta R.T. -0.421 min

Lab File: VL041313.D

Acq: 4 Jun 2024 20:09

Instrument :

MSVOA_L

ClientSampleId :

INSIDE-LOC-3

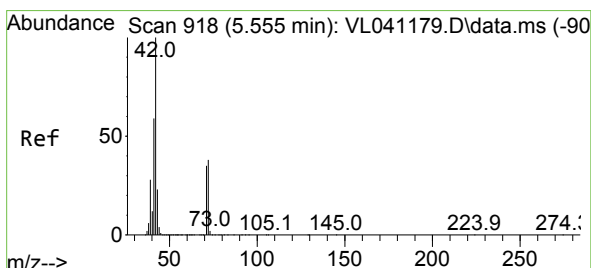
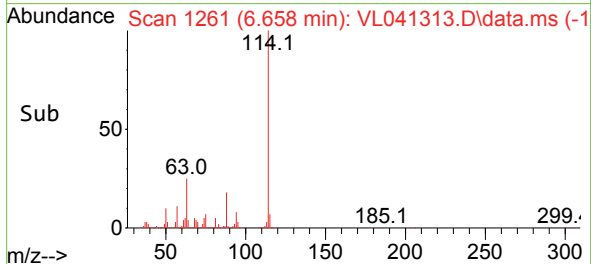
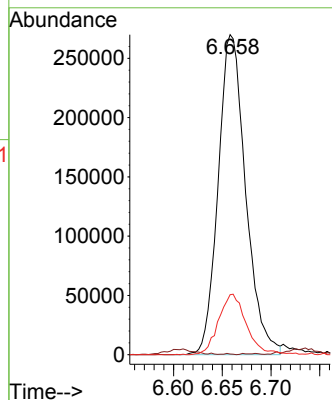
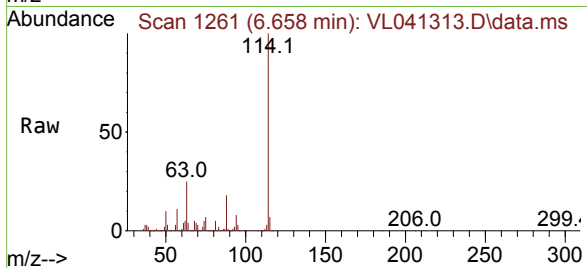
Tgt Ion: 63 Resp: 529575

Ion Ratio Lower Upper

63 100

41 0.0 59.9 89.9#

62 18.7 53.8 80.6#



#41

Tetrahydrofuran

Concen: 0.103 ppbv

RT: 5.825 min Scan# 1002

Delta R.T. 0.260 min

Lab File: VL041313.D

Acq: 4 Jun 2024 20:09

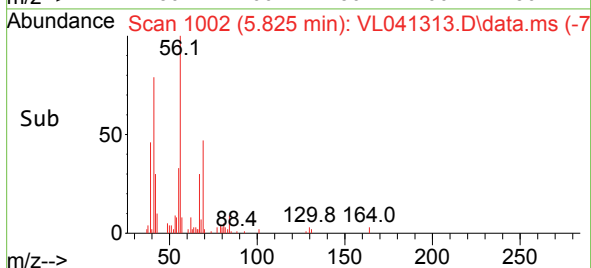
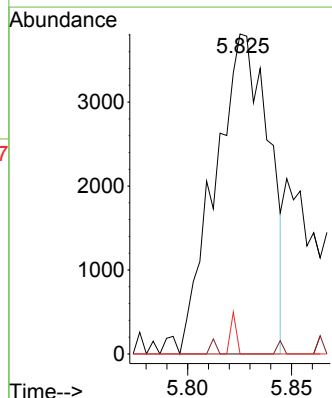
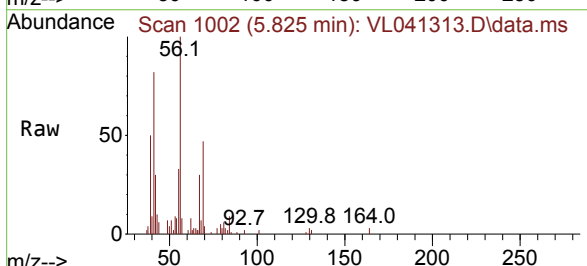
Tgt Ion: 42 Resp: 6833

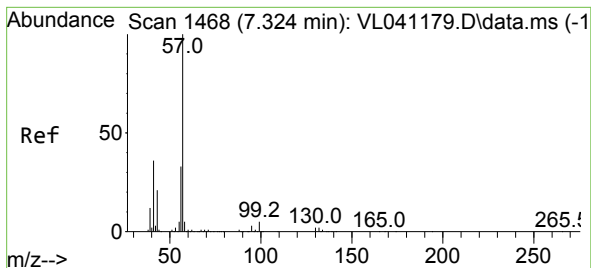
Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.4#

71 0.0 30.3 45.5#





#44

2,2,4-Trimethylpentane

Concen: 0.197 ppbv

RT: 7.330 min Scan# 1468

Delta R.T. -0.003 min

Lab File: VL041313.D

Acq: 4 Jun 2024 20:09

Instrument :

MSVOA_L

ClientSampleId :

INSIDE-LOC-3

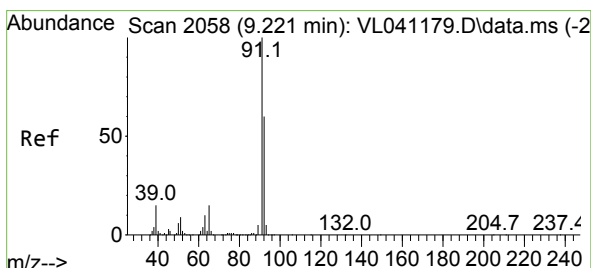
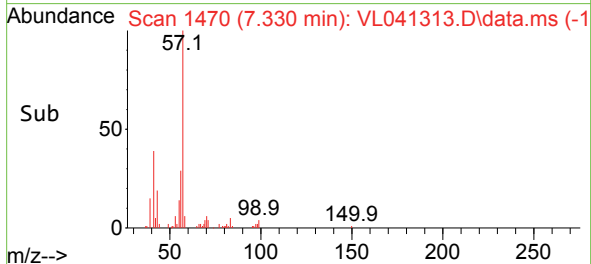
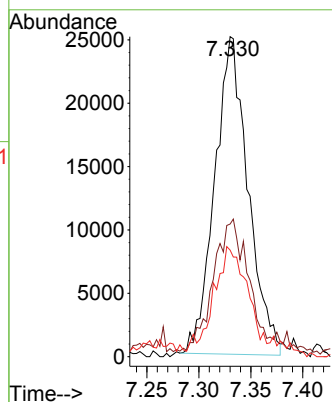
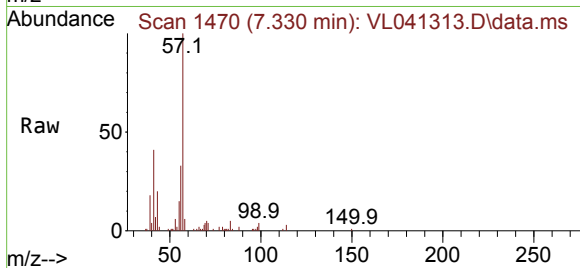
Tgt Ion: 57 Resp: 55805

Ion Ratio Lower Upper

57 100

41 53.3 29.4 44.2#

56 41.2 25.0 37.4#



#53

Toluene

Concen: 0.276 ppbv

RT: 9.217 min Scan# 2057

Delta R.T. -0.003 min

Lab File: VL041313.D

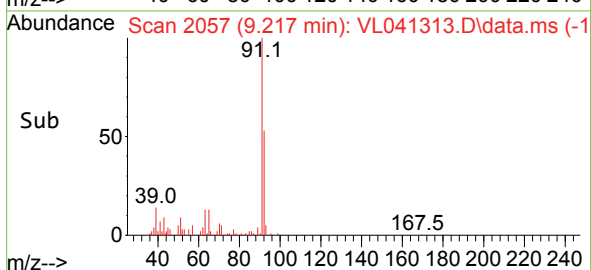
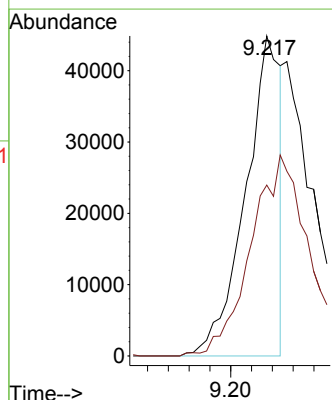
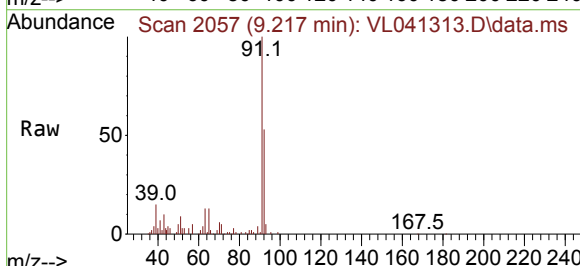
Acq: 4 Jun 2024 20:09

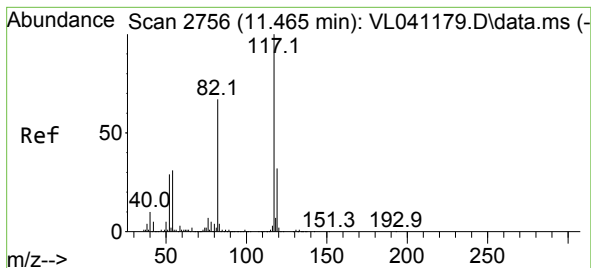
Tgt Ion: 91 Resp: 52325

Ion Ratio Lower Upper

91 100

92 0.0 49.2 73.8#

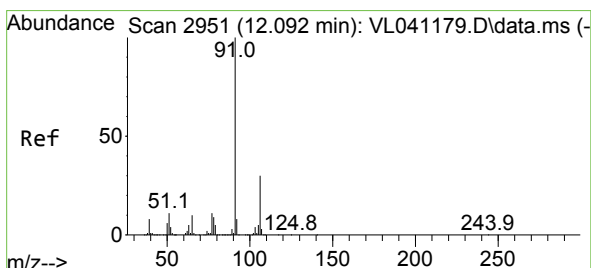
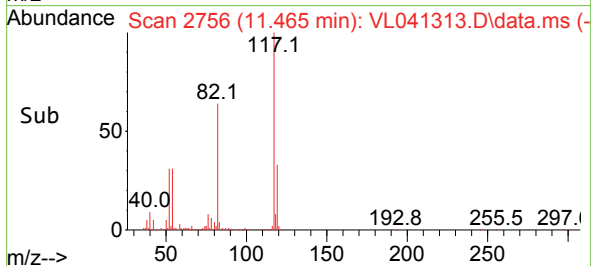
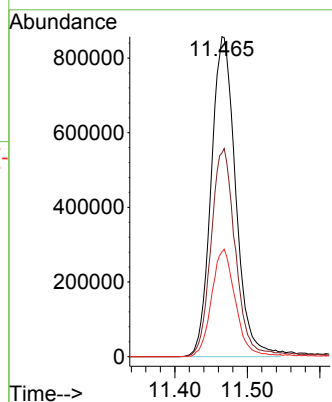
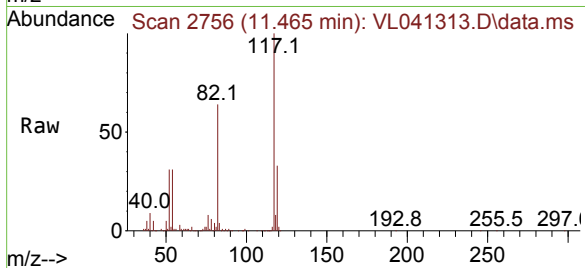




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 211
Delta R.T. 0.003 min
Lab File: VL041313.D
Acq: 4 Jun 2024 20:09

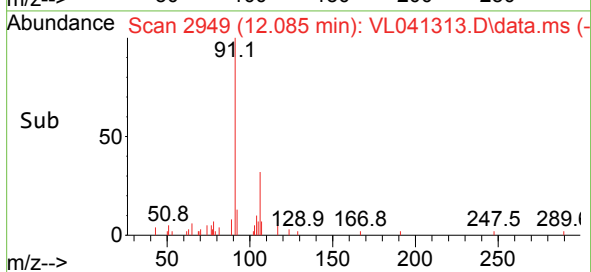
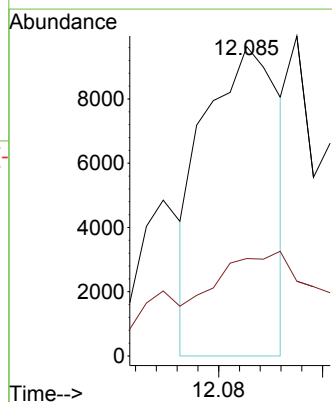
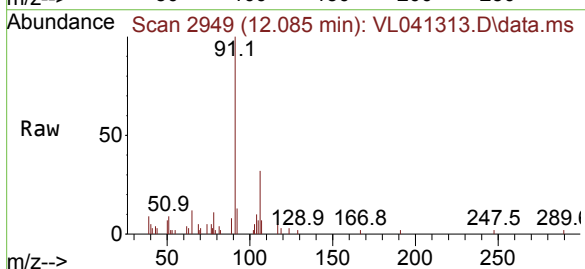
Instrument :
MSVOA_L
ClientSampleId :
INSIDE-LOC-3

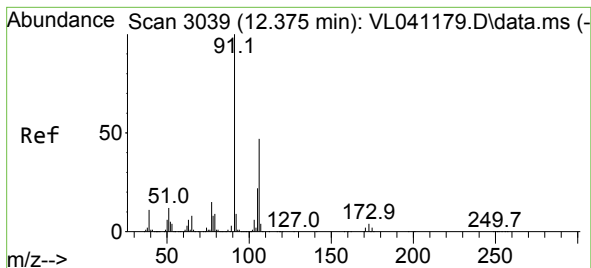
Tgt Ion:117 Resp: 2011609
Ion Ratio Lower Upper
117 100
82 66.2 52.3 78.5
119 33.2 26.2 39.2



#58
Ethyl Benzene
Concen: 0.037 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. 0.003 min
Lab File: VL041313.D
Acq: 4 Jun 2024 20:09

Tgt Ion: 91 Resp: 9652
Ion Ratio Lower Upper
91 100
106 27.3 25.5 38.3





#59

m/p-Xylene

Concen: 0.040 ppbv

RT: 12.365 min Scan# 3036

Delta R.T. 0.000 min

Lab File: VL041313.D

Acq: 4 Jun 2024 20:09

Instrument :

MSVOA_L

ClientSampleId :

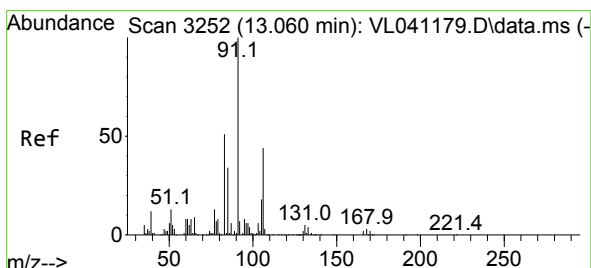
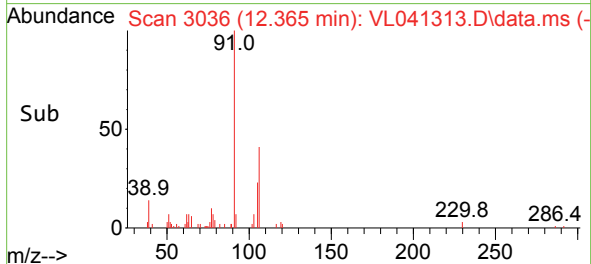
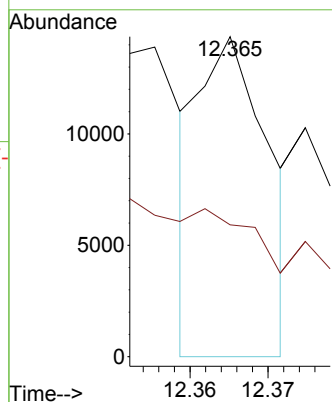
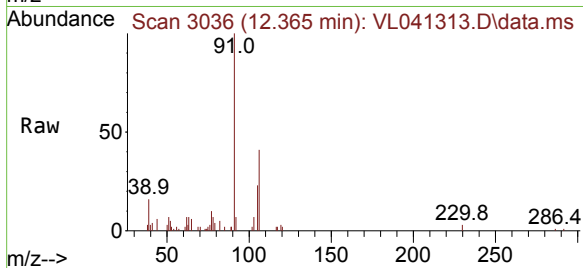
INSIDE-LOC-3

Tgt Ion: 91 Resp: 8822

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#



#60

o-Xylene

Concen: 0.069 ppbv

RT: 13.053 min Scan# 3250

Delta R.T. -0.000 min

Lab File: VL041313.D

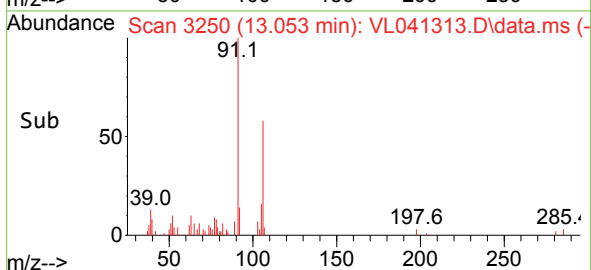
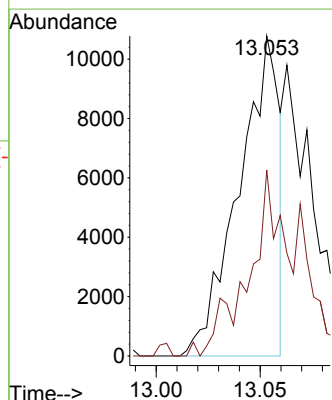
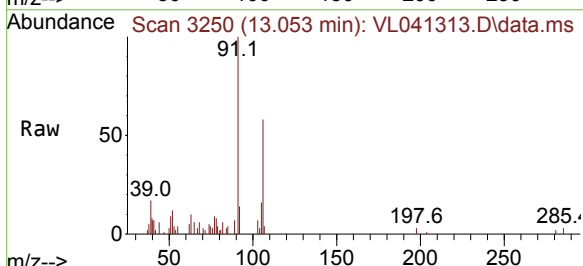
Acq: 4 Jun 2024 20:09

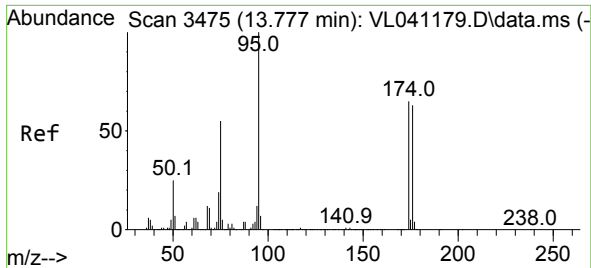
Tgt Ion: 91 Resp: 14523

Ion Ratio Lower Upper

91 100

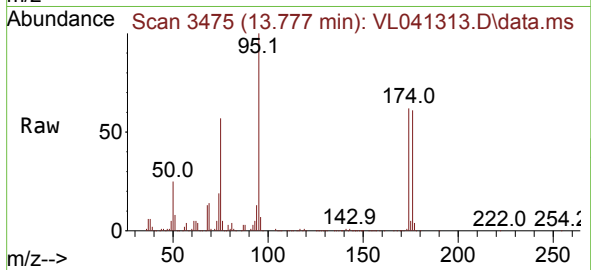
106 74.2 22.8 68.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.785 ppbv
 RT: 13.777 min Scan# 34
 Delta R.T. 0.006 min
 Lab File: VL041313.D
 Acq: 4 Jun 2024 20:09

Instrument :
 MSVOA_L
 ClientSampleId :
 INSIDE-LOC-3



Tgt Ion: 95 Resp: 1519695

Ion	Ratio	Lower	Upper
95	100		
174	65.5	52.2	78.2
175	4.8	4.1	6.1

