

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080124\
 Data File : VL041481.D
 Acq On : 1 Aug 2024 16:59
 Operator : SY/MD
 Sample : P3445-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AMBIENT-OUTSIDE

Quant Time: Aug 02 04:12:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Aug 02 03:13:29 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	938488	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2465073	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2241656	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1751406	10.153	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.500%

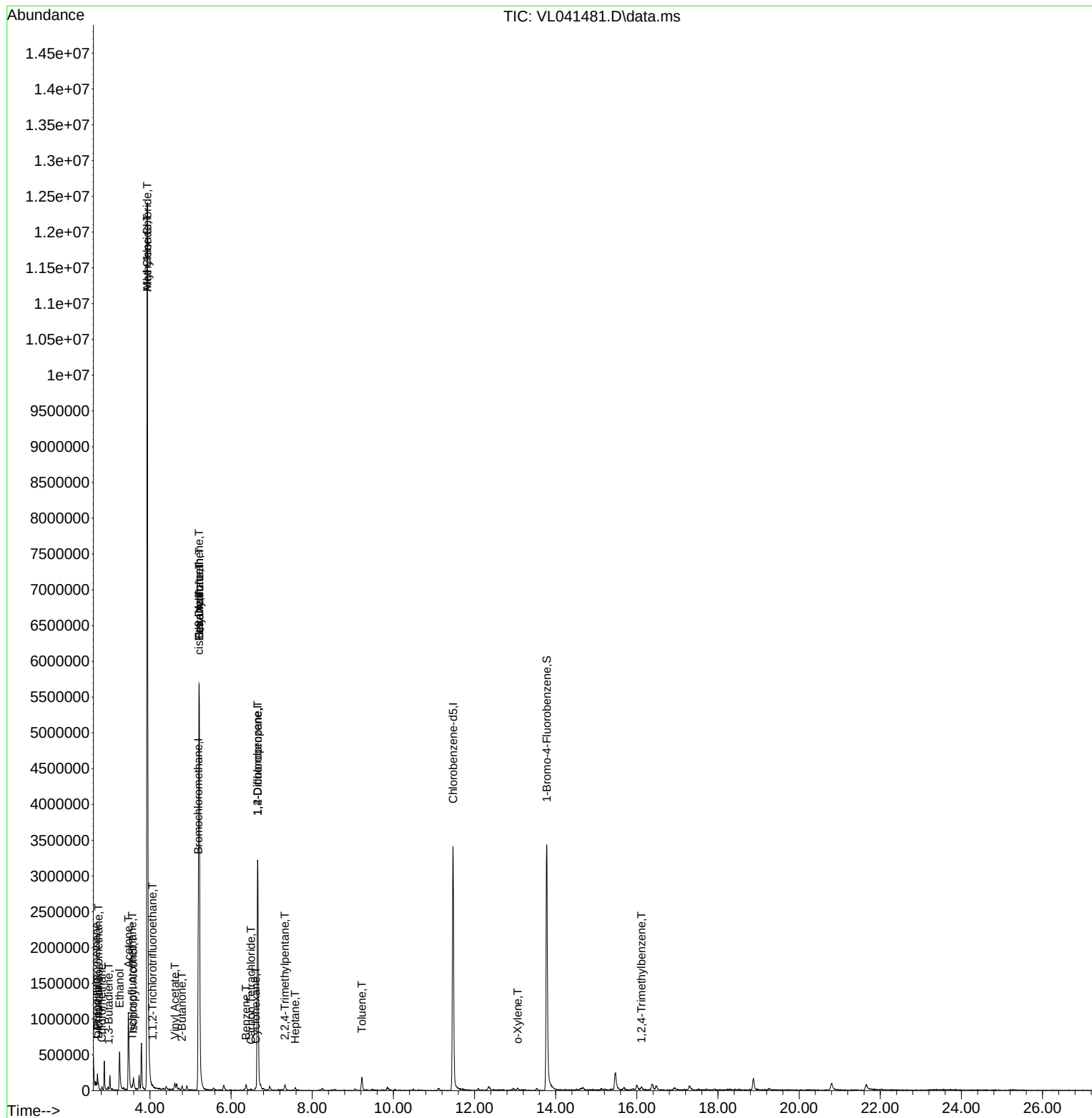
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.732	85	40267	0.249	ppbv	99
3) Chlorodifluoromethane	2.678	51	117464	1.051	ppbv #	82
4) Chloromethane	2.816	50	38620	0.650	ppbv	94
9) Propene	2.710	41	53163	1.036	ppbv	89
10) Heptane	7.581	43	6637	0.058	ppbv #	27
11) Trichlorofluoromethane	3.565	101	32318	0.225	ppbv	87
12) 1,1,2-Trichlorotrifluo...	4.063	101	3722	0.036	ppbv #	1
13) Ethanol	3.253	45	549547	119.802	ppbv	96
15) Acetone	3.468	43	1098866	10.305	ppbv	100
16) 1,3-Butadiene	2.983	39	3477	0.061	ppbv #	31
19) Isopropyl Alcohol	3.591	45	165058	2.648	ppbv #	1
20) Methylene Chloride	3.935	84	4391379	110.438	ppbv	92
21) Allyl Chloride	3.935	41	182351	2.608	ppbv #	23
23) Vinyl Acetate	4.620	43	25506	0.313	ppbv #	63
25) Ethyl Acetate	5.214	43	1557818	7.354	ppbv #	76
26) Hexane	5.214	57	2189801	24.919	ppbv #	37
30) Cyclohexane	6.607	84	4209	0.059	ppbv #	23
31) cis-1,2-Dichloroethene	5.208	61	5409	0.062	ppbv #	36
34) 2-Butanone	4.790	43	58917	0.494	ppbv #	90
35) Carbon Tetrachloride	6.491	117	5441	0.040	ppbv #	80
36) Benzene	6.369	78	52514	0.292	ppbv #	93
39) 1,2-Dichloropropane	6.655	63	603971	8.758	ppbv #	25
41) Tetrahydrofuran	5.214	42	835353	12.248	ppbv #	49
44) 2,2,4-Trimethylpentane	7.324	57	26066	0.087	ppbv #	42
53) Toluene	9.224	91	122478	0.610	ppbv	98
60) o-Xylene	13.063	91	22107	0.105	ppbv	95
74) 1,2,4-Trimethylbenzene	16.117	105	17412	0.070	ppbv #	63

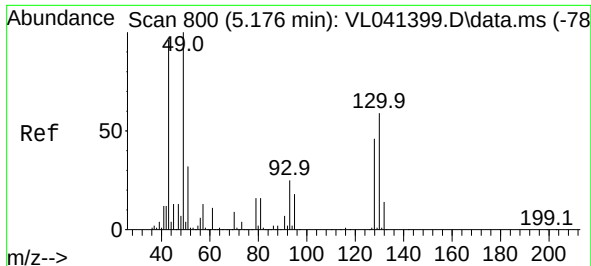
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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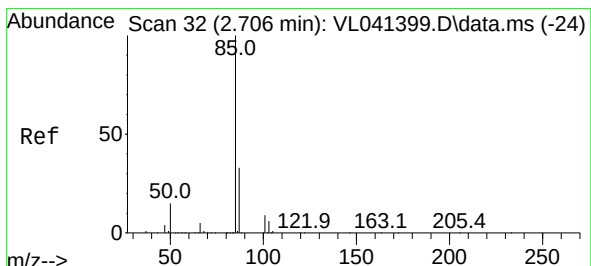
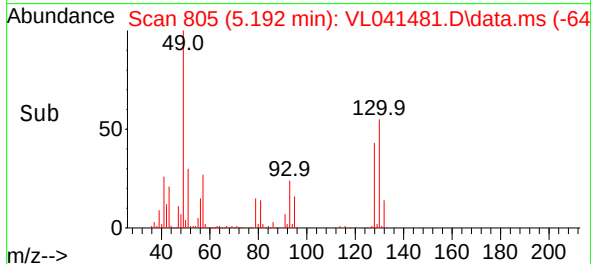
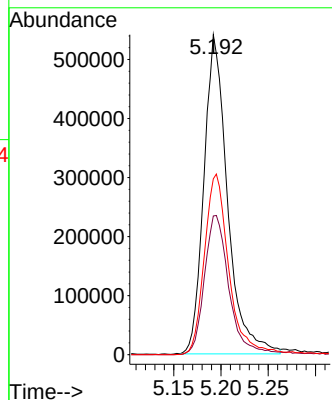
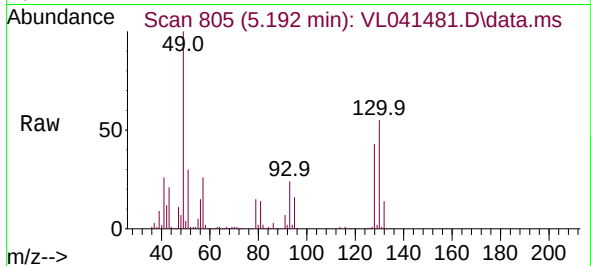




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

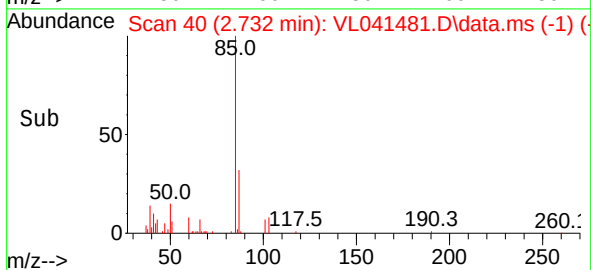
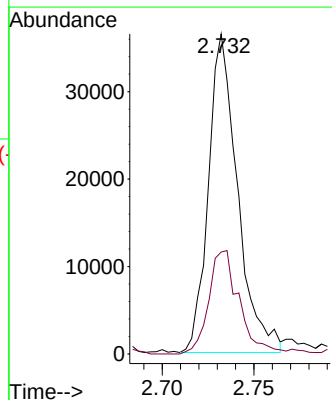
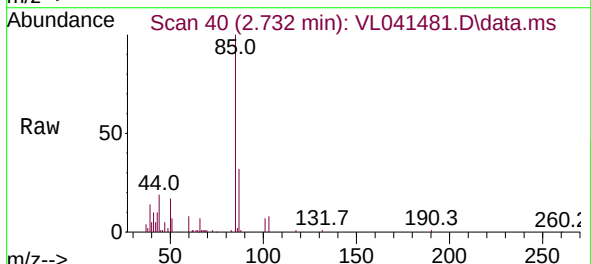
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-OUTSIDE

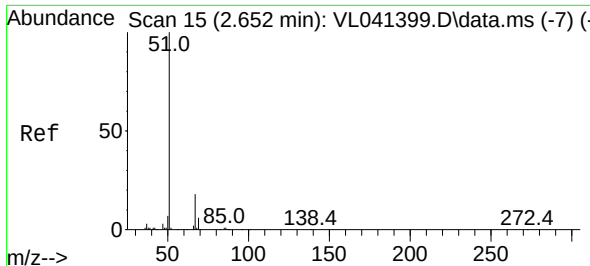
Tgt Ion: 49 Resp: 938488
Ion Ratio Lower Upper
49 100
128 46.3 23.8 71.4
130 60.1 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.249 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.003 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

Tgt Ion: 85 Resp: 40267
Ion Ratio Lower Upper
85 100
87 32.0 26.0 39.0

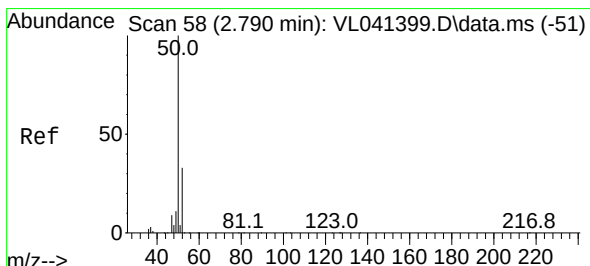
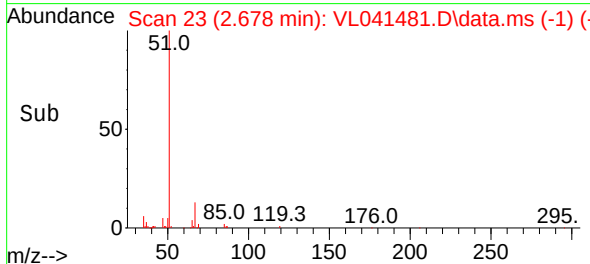
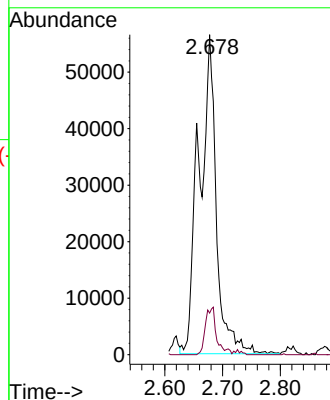
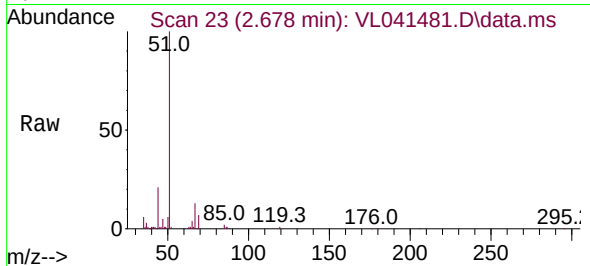




#3
Chlorodifluoromethane
Concen: 1.051 ppbv
RT: 2.678 min Scan# 24
Delta R.T. 0.003 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

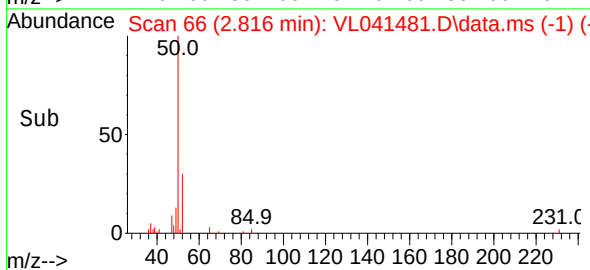
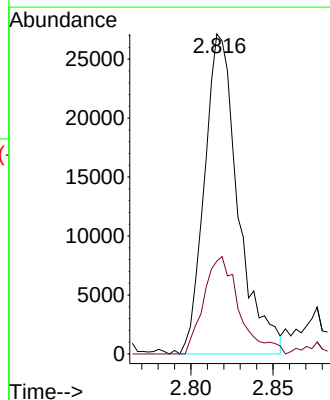
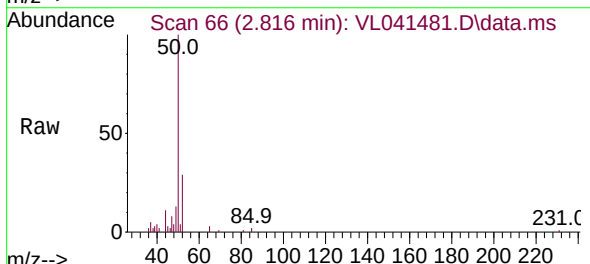
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-OUTSIDE

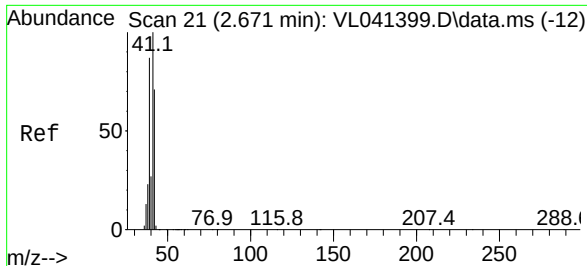
Tgt Ion: 51 Resp: 117464
Ion Ratio Lower Upper
51 100
67 10.1 14.5 21.7#



#4
Chloromethane
Concen: 0.650 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.003 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

Tgt Ion: 50 Resp: 38620
Ion Ratio Lower Upper
50 100
52 29.0 26.1 39.1





#9

Propene

Concen: 1.036 ppbv

RT: 2.710 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

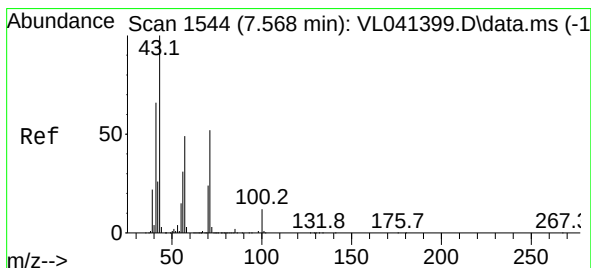
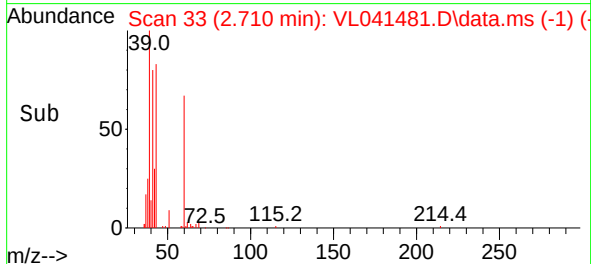
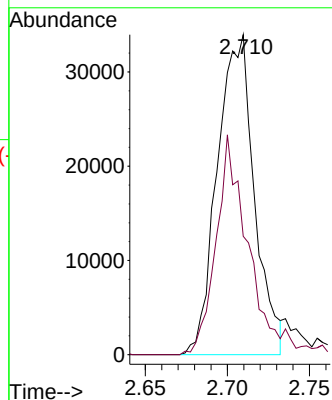
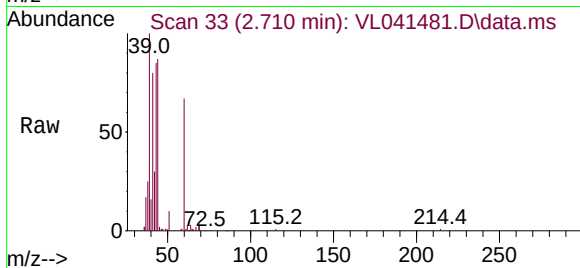
AMBIENT-OUTSIDE

Tgt Ion: 41 Resp: 53163

Ion Ratio Lower Upper

41 100

42 61.0 55.9 83.9



#10

Heptane

Concen: 0.058 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. 0.003 min

Lab File: VL041481.D

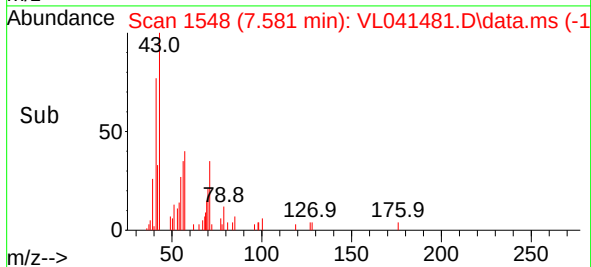
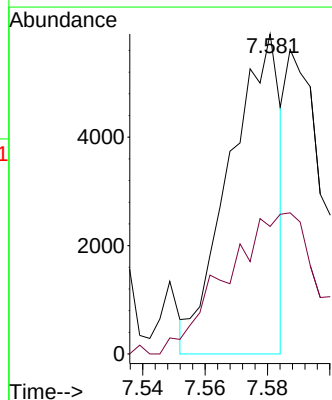
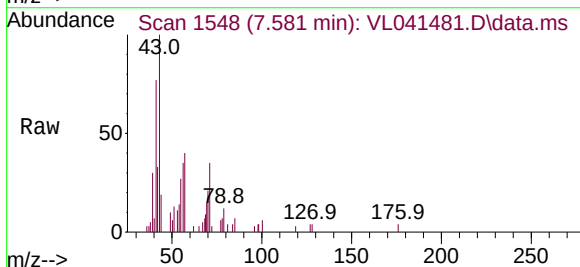
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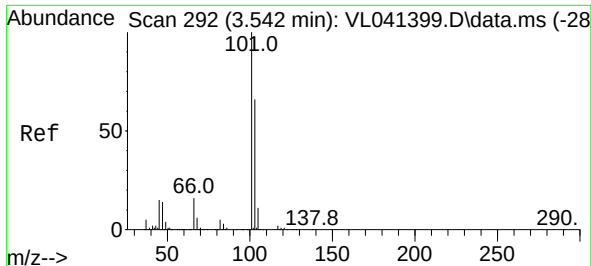
Tgt Ion: 43 Resp: 6637

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#





#11

Trichlorofluoromethane

Concen: 0.225 ppbv

RT: 3.565 min Scan# 292

Delta R.T. 0.003 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

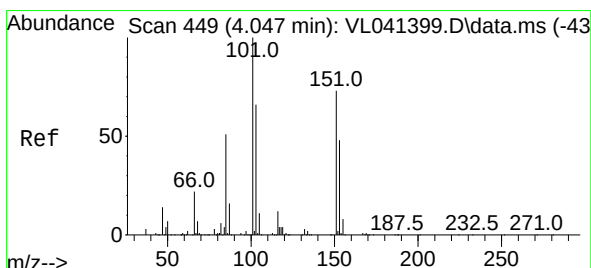
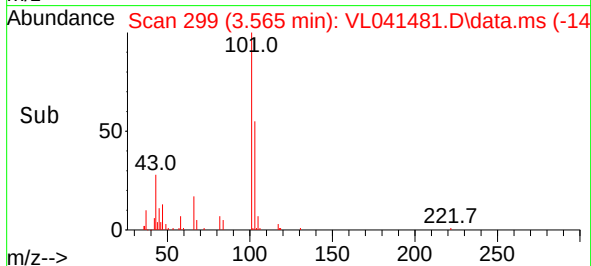
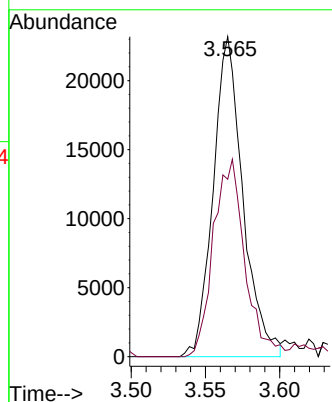
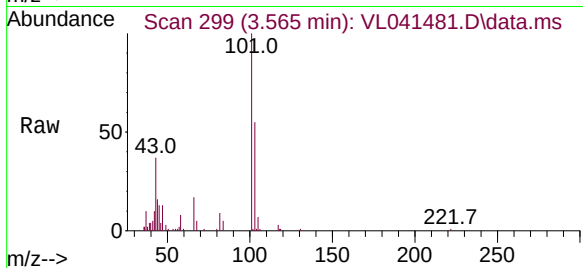
AMBIENT-OUTSIDE

Tgt Ion:101 Resp: 32318

Ion Ratio Lower Upper

101 100

103 55.4 52.6 79.0



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.036 ppbv

RT: 4.063 min Scan# 454

Delta R.T. 0.000 min

Lab File: VL041481.D

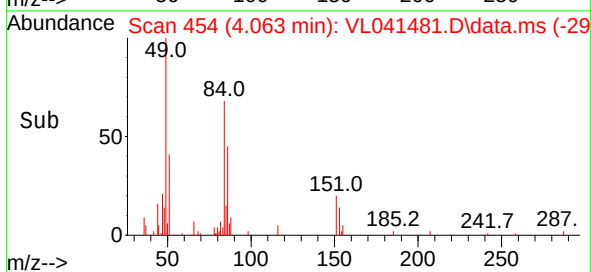
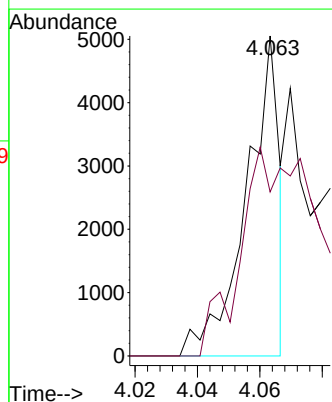
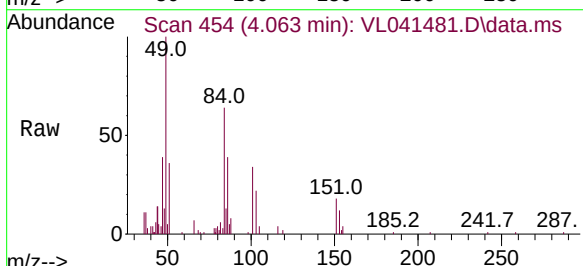
Acq: 1 Aug 2024 16:59

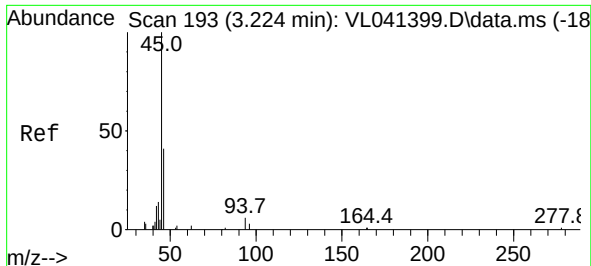
Tgt Ion:101 Resp: 3722

Ion Ratio Lower Upper

101 100

151 159.1 59.4 89.2#





#13

Ethanol

Concen: 119.802 ppbv

RT: 3.253 min Scan# 20

Delta R.T. 0.006 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

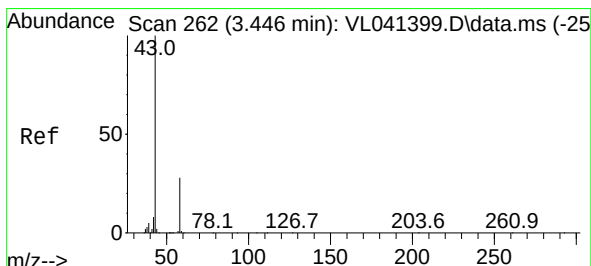
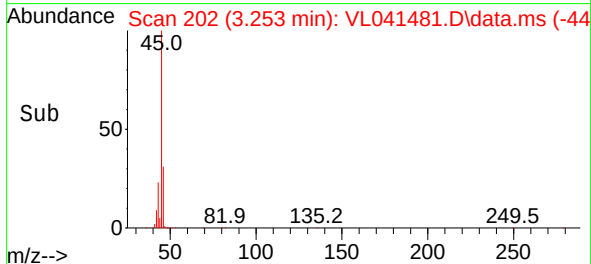
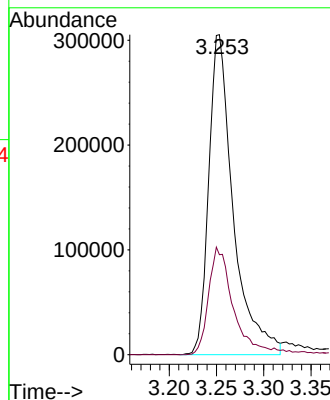
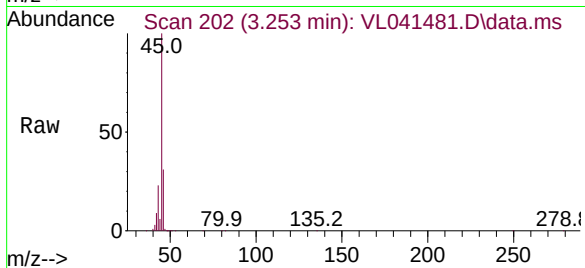
AMBIENT-OUTSIDE

Tgt Ion: 45 Resp: 549547

Ion Ratio Lower Upper

45 100

46 35.5 13.4 53.4



#15

Acetone

Concen: 10.305 ppbv

RT: 3.468 min Scan# 269

Delta R.T. 0.003 min

Lab File: VL041481.D

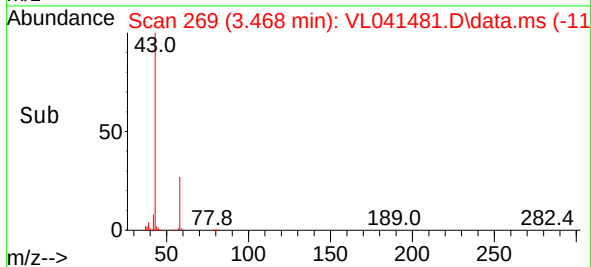
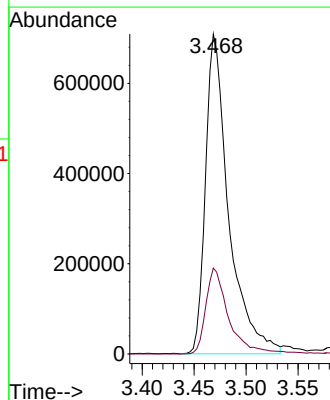
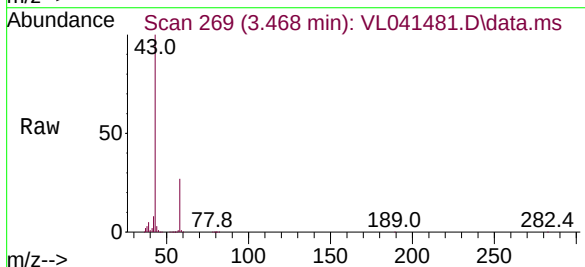
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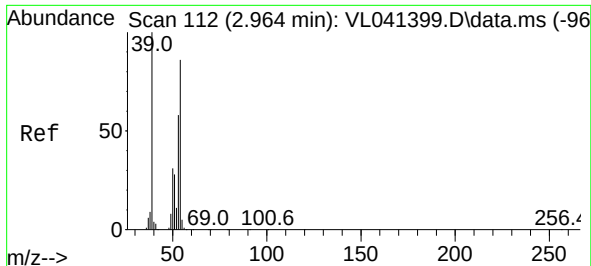
Tgt Ion: 43 Resp: 1098866

Ion Ratio Lower Upper

43 100

58 26.8 21.4 32.2





#16

1,3-Butadiene

Concen: 0.061 ppbv

RT: 2.983 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

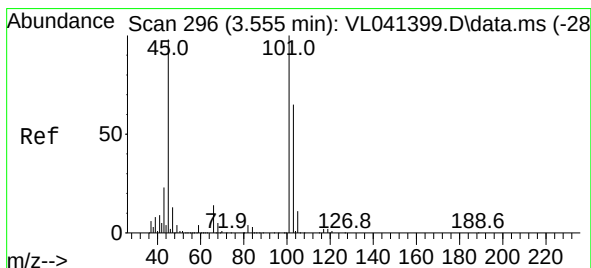
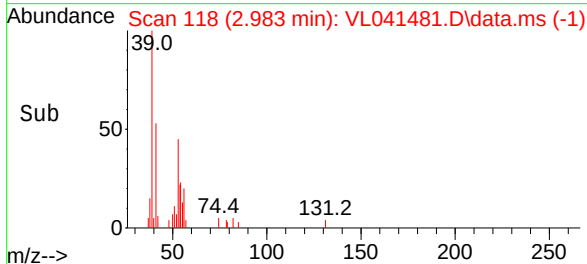
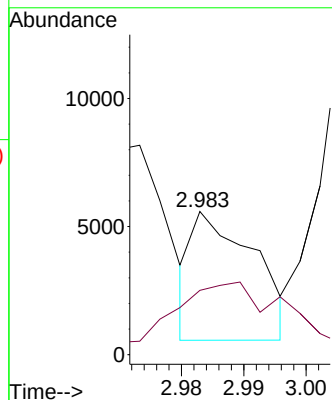
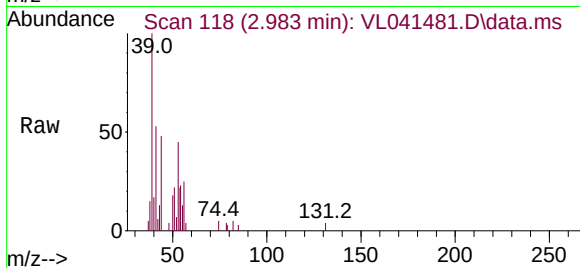
AMBIENT-OUTSIDE

Tgt Ion: 39 Resp: 3477

Ion Ratio Lower Upper

39 100

54 138.5 62.5 93.7#



#19

Isopropyl Alcohol

Concen: 2.648 ppbv

RT: 3.591 min Scan# 307

Delta R.T. 0.016 min

Lab File: VL041481.D

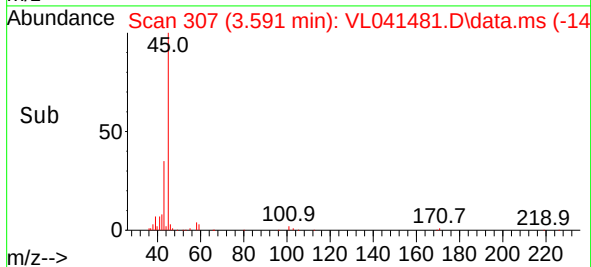
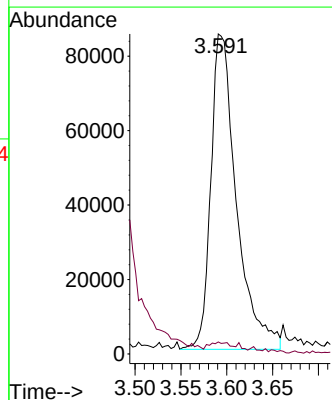
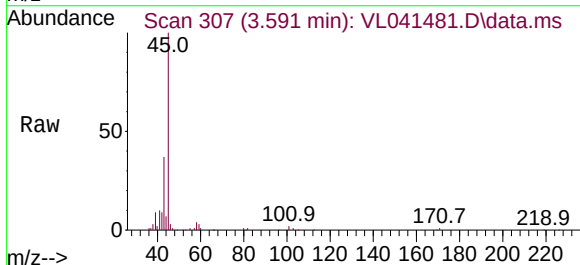
Acq: 1 Aug 2024 16:59

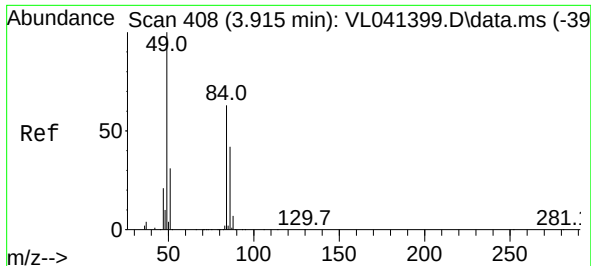
Tgt Ion: 45 Resp: 165058

Ion Ratio Lower Upper

45 100

58 178.2 1.9 2.9#



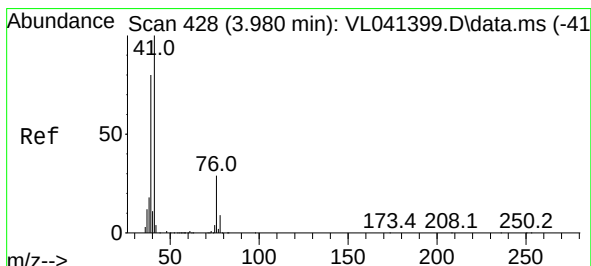
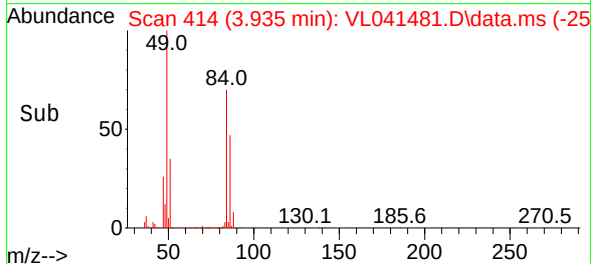
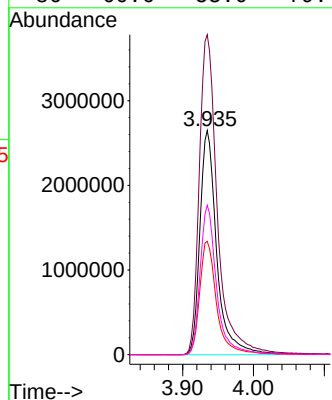
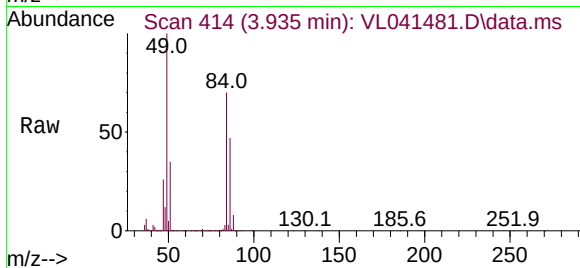


#20
Methylene Chloride
Concen: 110.438 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.003 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-OUTSIDE

Tgt Ion: 84 Resp: 4391379

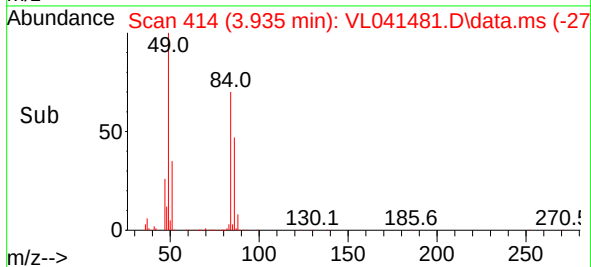
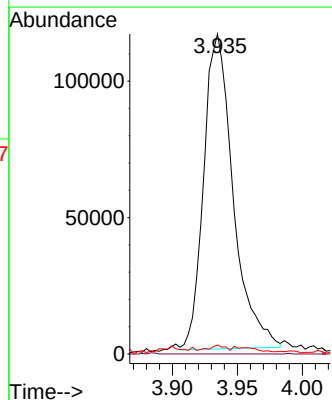
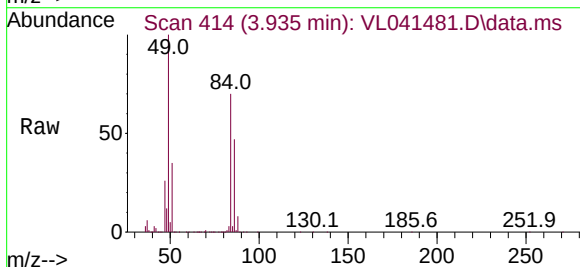
Ion	Ratio	Lower	Upper
84	100		
49	142.7	126.6	190.0
51	50.5	38.6	58.0
86	66.6	53.0	79.4

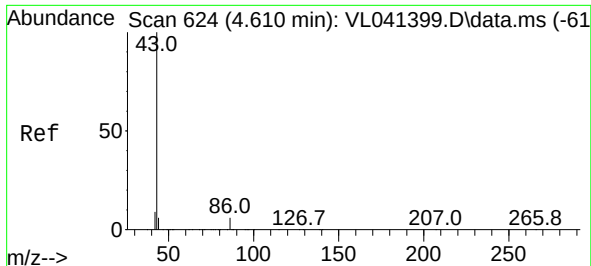


#21
Allyl Chloride
Concen: 2.608 ppbv
RT: 3.935 min Scan# 414
Delta R.T. -0.061 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

Tgt Ion: 41 Resp: 182351

Ion	Ratio	Lower	Upper
41	100		
76	0.1	23.7	35.5#
39	5.0	64.3	96.5#



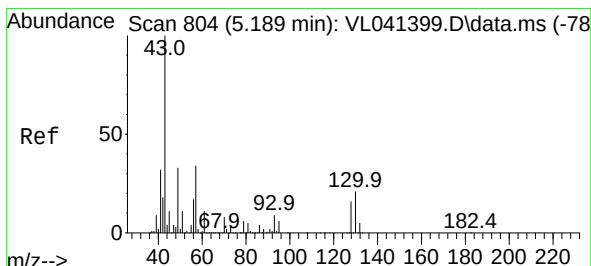
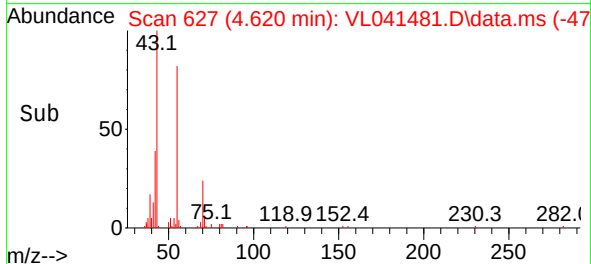
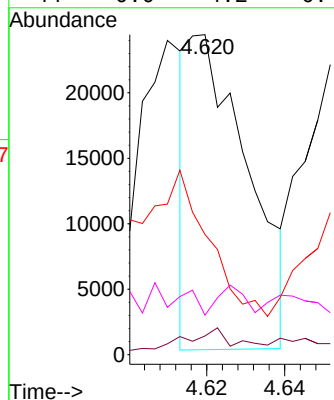
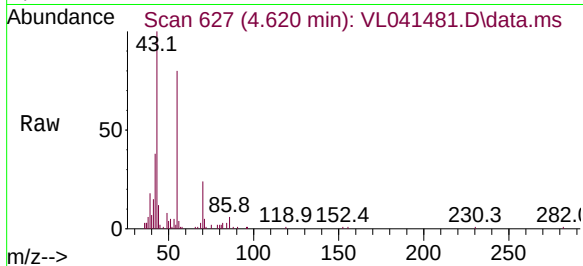


#23
 Vinyl Acetate
 Concen: 0.313 ppbv
 RT: 4.620 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL041481.D
 Acq: 1 Aug 2024 16:59

Instrument :
 MSVOA_1
 ClientSampleId :
 AMBIENT-OUTSIDE

Tgt Ion: 43 Resp: 25506

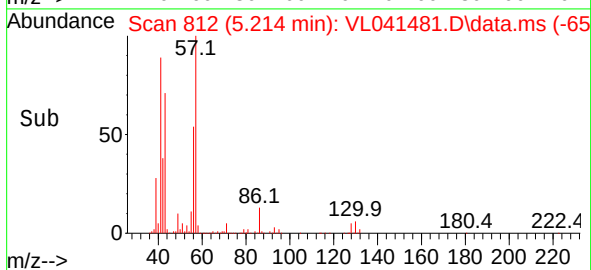
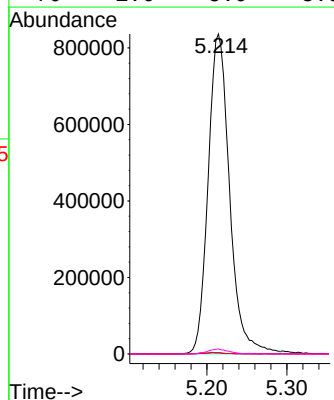
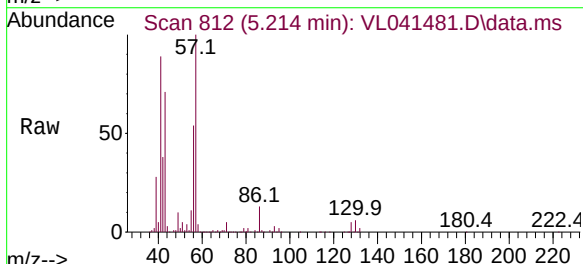
Ion	Ratio	Lower	Upper
43	100		
86	1.1	4.6	6.8#
42	32.4	7.9	11.9#
44	0.0	4.2	6.4#

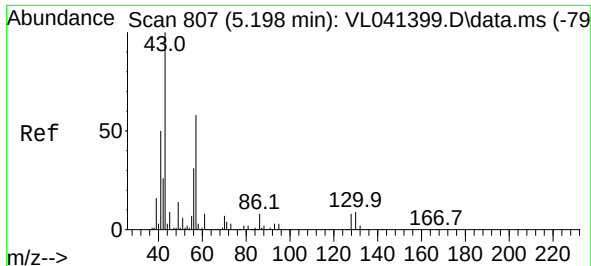


#25
 Ethyl Acetate
 Concen: 7.354 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. 0.013 min
 Lab File: VL041481.D
 Acq: 1 Aug 2024 16:59

Tgt Ion: 43 Resp: 1557818

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#

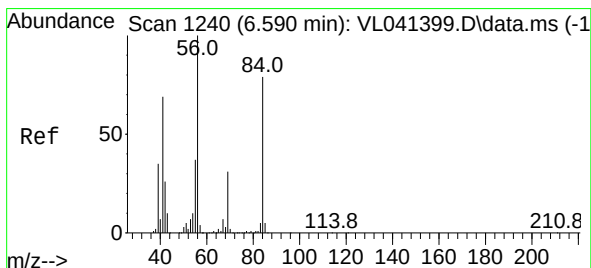
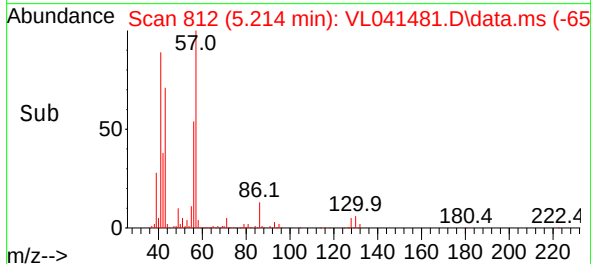
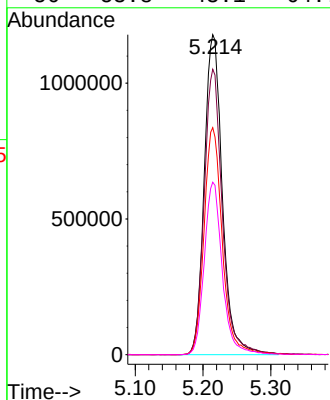
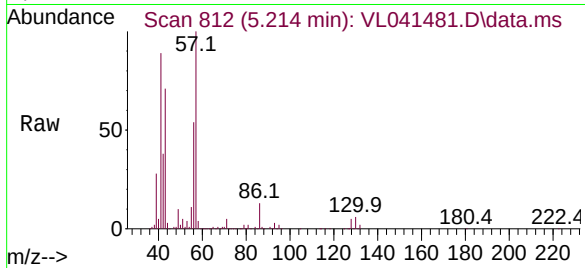




#26
Hexane
Concen: 24.919 ppbv
RT: 5.214 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

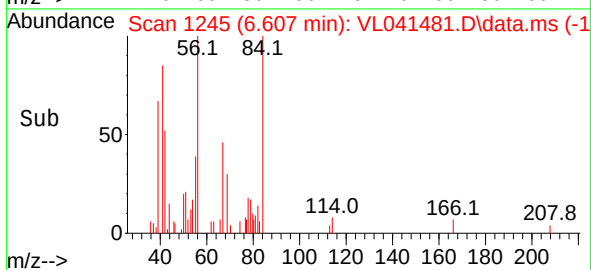
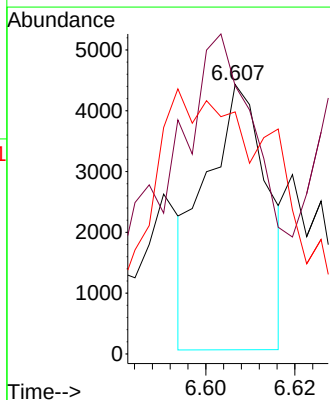
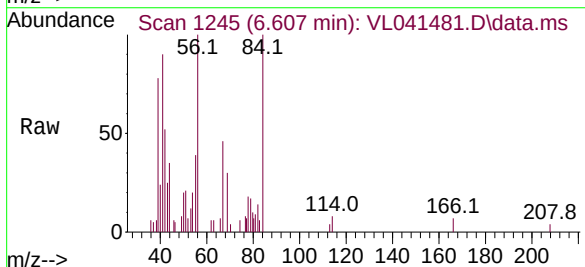
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-OUTSIDE

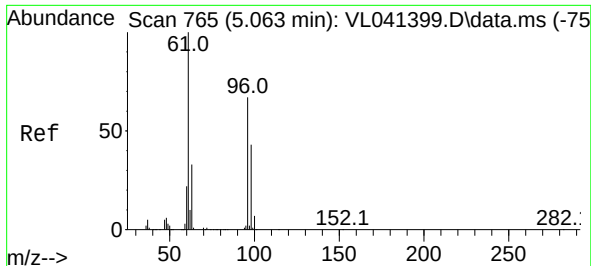
Tgt Ion: 57 Resp: 2189801
Ion Ratio Lower Upper
57 100
41 90.4 74.0 111.0
43 71.8 193.6 290.4#
56 53.8 43.1 64.7



#30
Cyclohexane
Concen: 0.059 ppbv
RT: 6.607 min Scan# 1245
Delta R.T. 0.010 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

Tgt Ion: 84 Resp: 4209
Ion Ratio Lower Upper
84 100
56 219.0 111.2 166.8#
41 0.0 70.3 105.5#





#31

cis-1,2-Dichloroethene

Concen: 0.062 ppbv

RT: 5.208 min Scan# 81

Delta R.T. 0.132 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-OUTSIDE

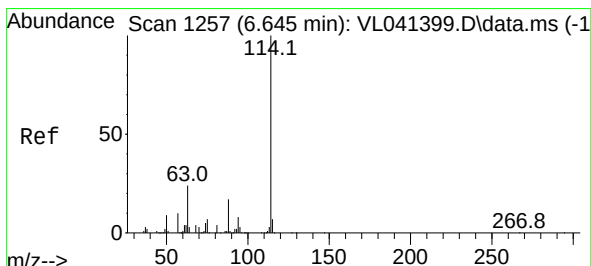
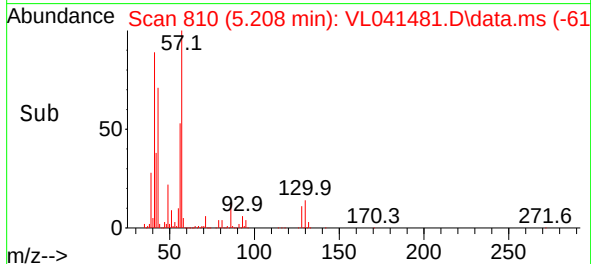
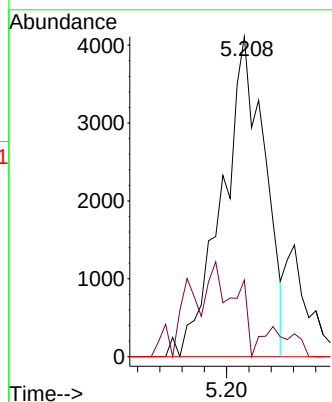
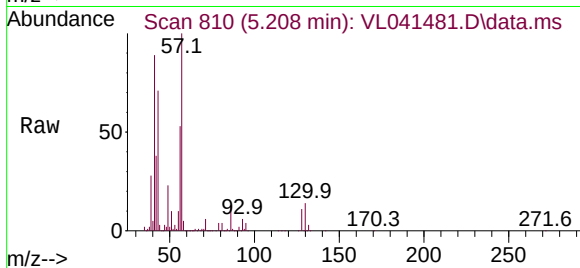
Tgt Ion: 61 Resp: 5409

Ion Ratio Lower Upper

61 100

96 17.7 53.4 80.2#

98 0.0 34.4 51.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 1260

Delta R.T. 0.000 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

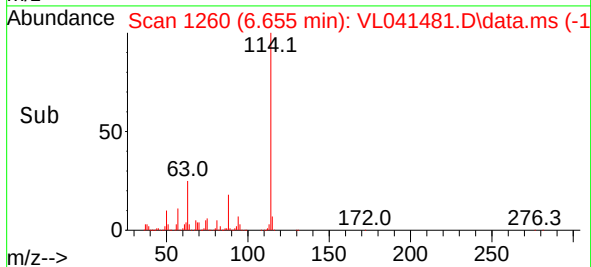
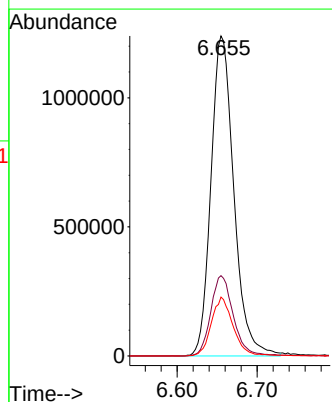
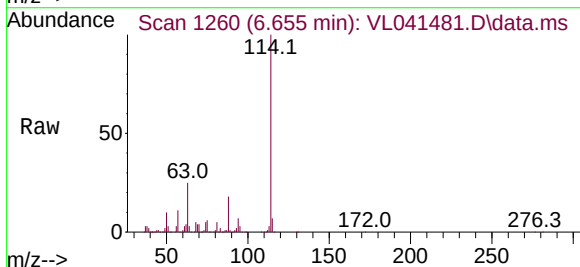
Tgt Ion:114 Resp: 2465073

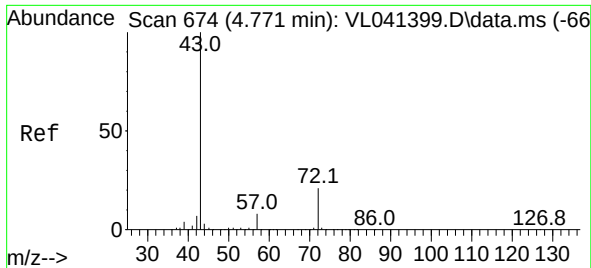
Ion Ratio Lower Upper

114 100

63 25.0 20.3 30.5

88 17.7 14.3 21.5

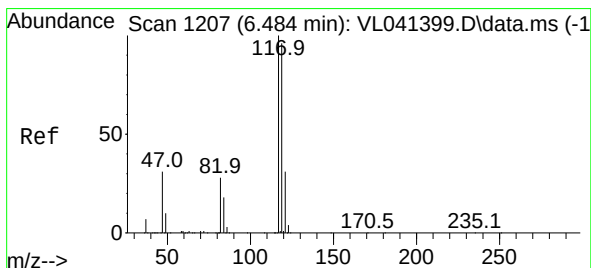
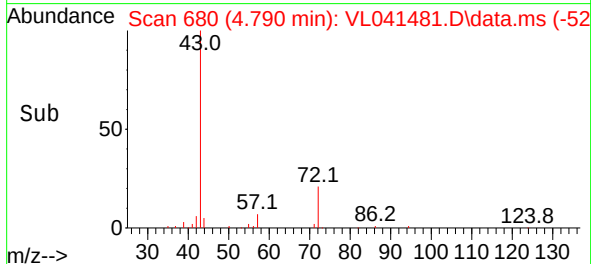
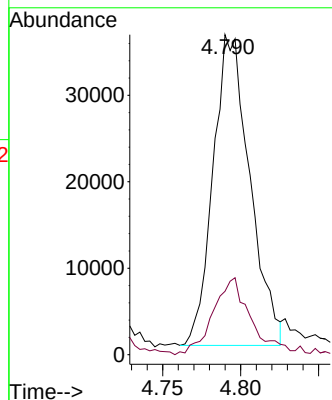
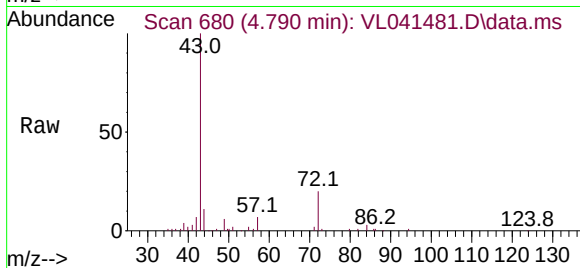




#34
2-Butanone
Concen: 0.494 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

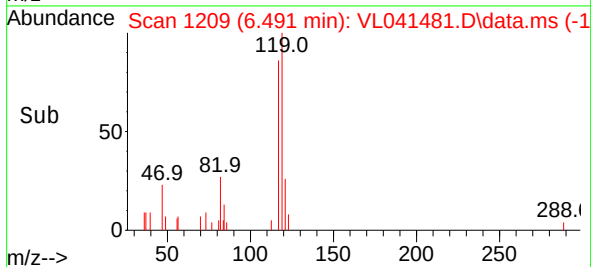
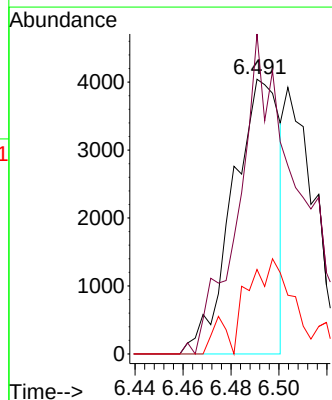
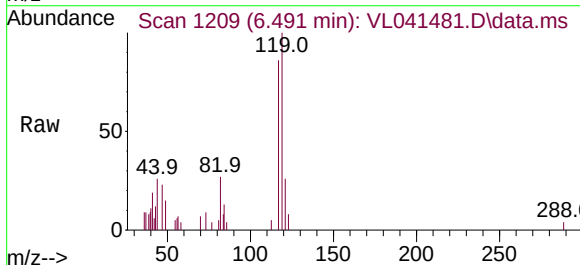
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-OUTSIDE

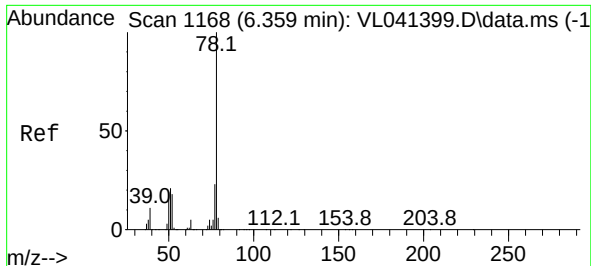
Tgt Ion: 43 Resp: 58917
Ion Ratio Lower Upper
43 100
72 26.2 17.3 25.9#



#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 6.491 min Scan# 1209
Delta R.T. 0.000 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

Tgt Ion: 117 Resp: 5441
Ion Ratio Lower Upper
117 100
119 121.4 76.6 115.0#
121 32.0 25.1 37.7

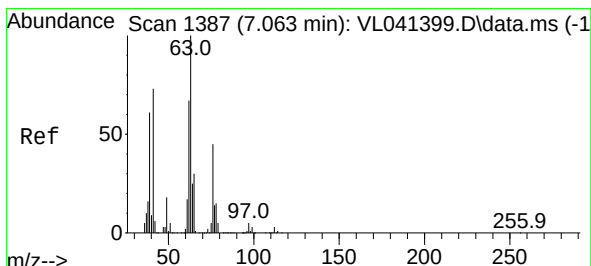
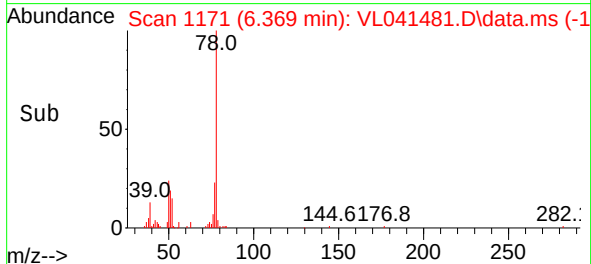
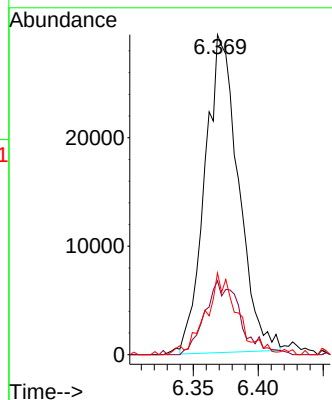
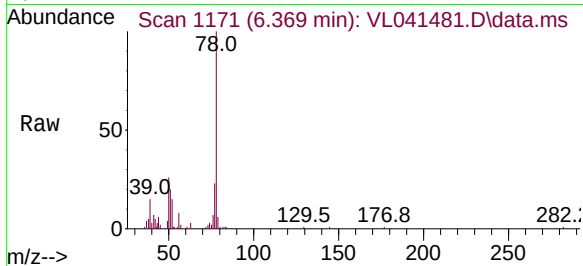




#36
Benzene
Concen: 0.292 ppbv
RT: 6.369 min Scan# 1168
Delta R.T. 0.000 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

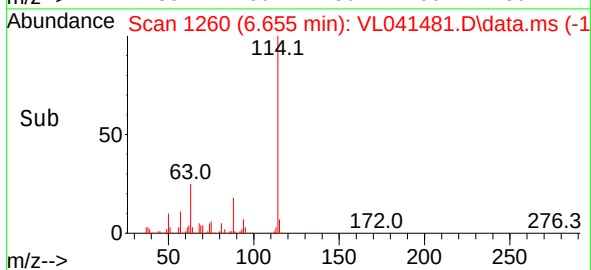
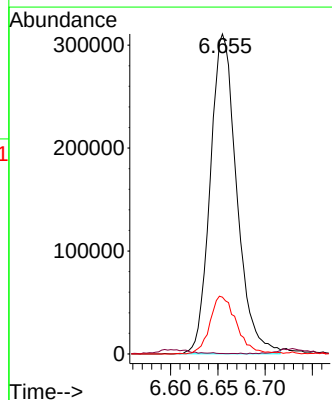
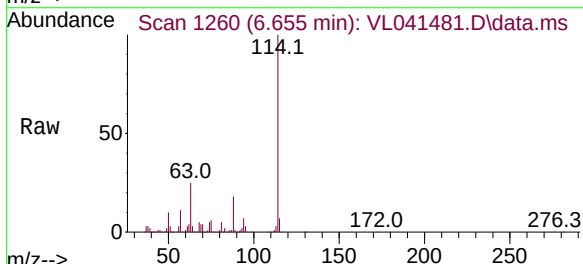
Instrument :
MSVOA_L
ClientSampleId :
AMBIENT-OUTSIDE

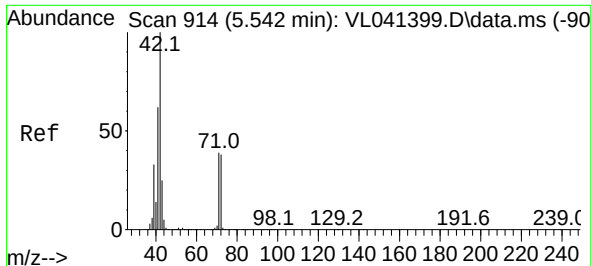
Tgt Ion: 78 Resp: 52514
Ion Ratio Lower Upper
78 100
77 23.5 18.1 27.1
50 25.1 15.5 23.3#



#39
1,2-Dichloropropane
Concen: 8.758 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.415 min
Lab File: VL041481.D
Acq: 1 Aug 2024 16:59

Tgt Ion: 63 Resp: 603971
Ion Ratio Lower Upper
63 100
41 0.0 58.3 87.5#
62 17.6 53.9 80.9#





#41

Tetrahydrofuran

Concen: 12.248 ppbv

RT: 5.214 min Scan# 81

Delta R.T. -0.338 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-OUTSIDE

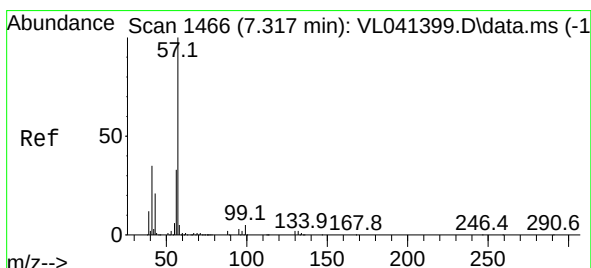
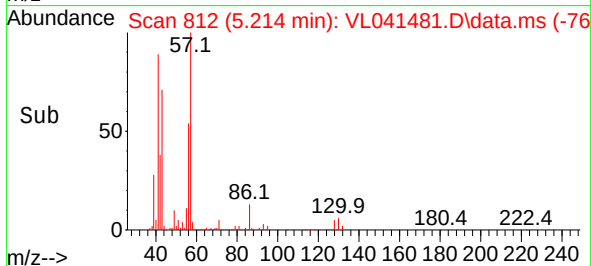
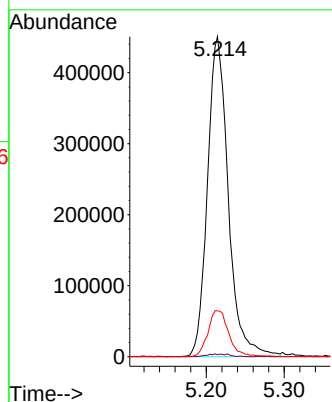
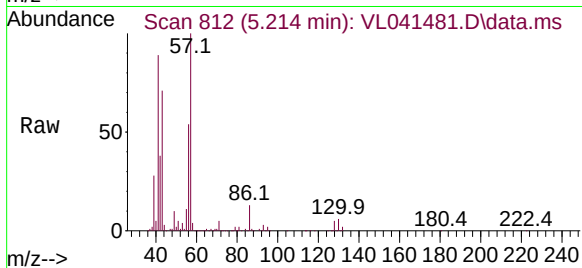
Tgt Ion: 42 Resp: 835353

Ion Ratio Lower Upper

42 100

72 0.9 31.2 46.8#

71 14.6 30.5 45.7#



#44

2,2,4-Trimethylpentane

Concen: 0.087 ppbv

RT: 7.324 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

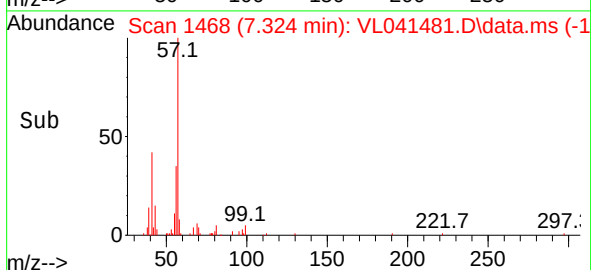
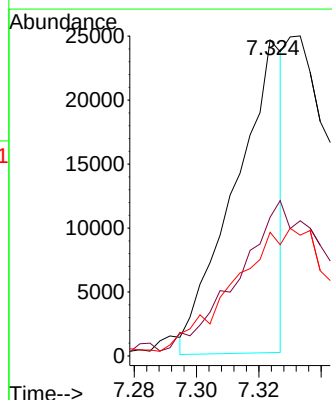
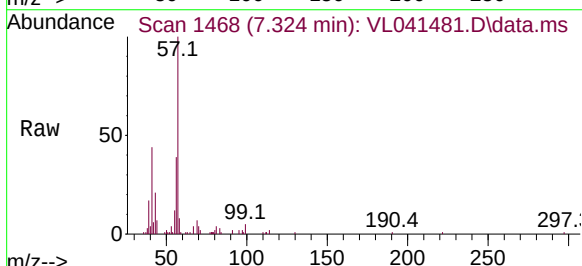
Tgt Ion: 57 Resp: 26066

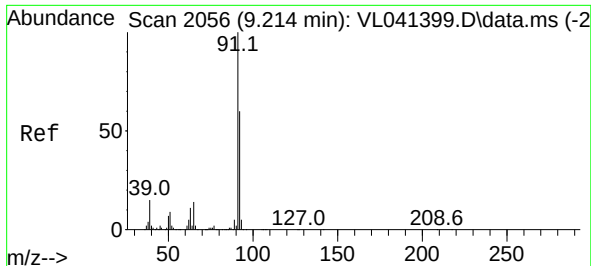
Ion Ratio Lower Upper

57 100

41 0.0 27.0 40.6#

56 0.0 25.2 37.8#





#53

Toluene

Concen: 0.610 ppbv

RT: 9.224 min Scan# 2056

Delta R.T. 0.003 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

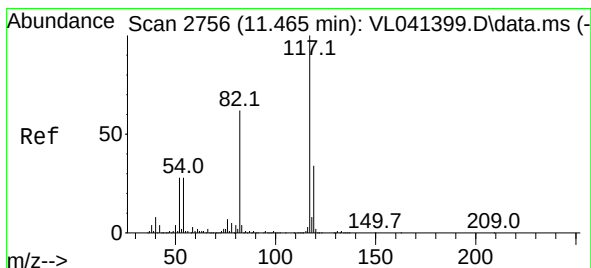
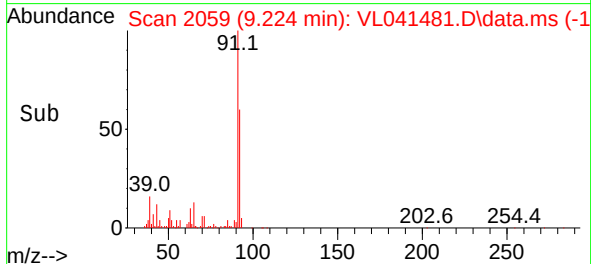
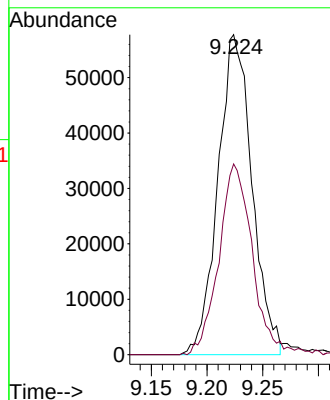
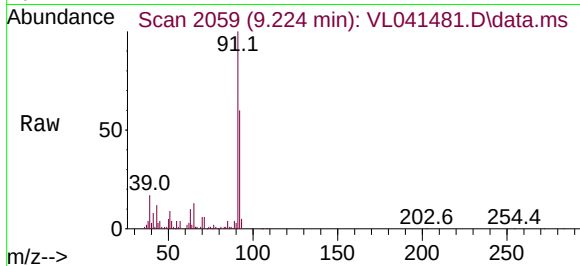
AMBIENT-OUTSIDE

Tgt Ion: 91 Resp: 122478

Ion Ratio Lower Upper

91 100

92 59.4 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.471 min Scan# 2758

Delta R.T. 0.006 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

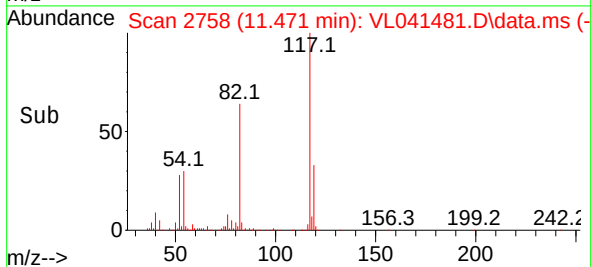
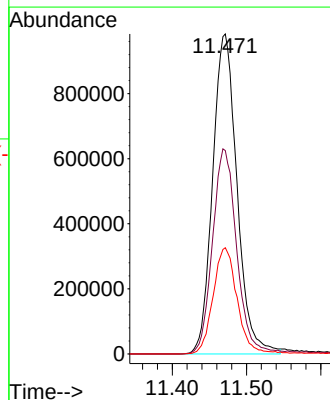
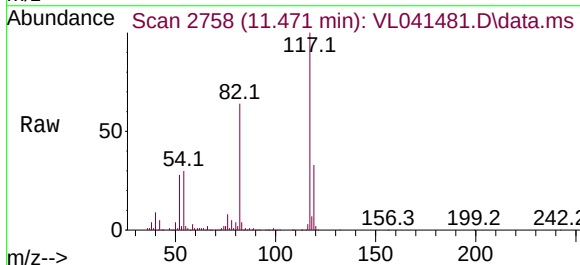
Tgt Ion: 117 Resp: 2241656

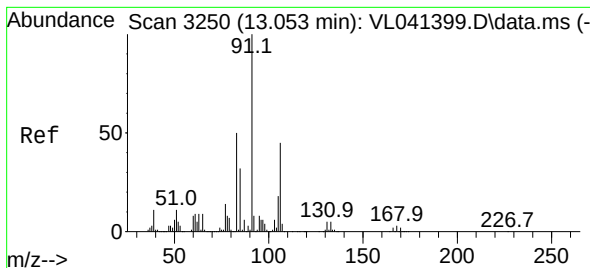
Ion Ratio Lower Upper

117 100

82 65.1 51.0 76.6

119 33.4 45.2 67.8#





#60

o-Xylene

Concen: 0.105 ppbv

RT: 13.063 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

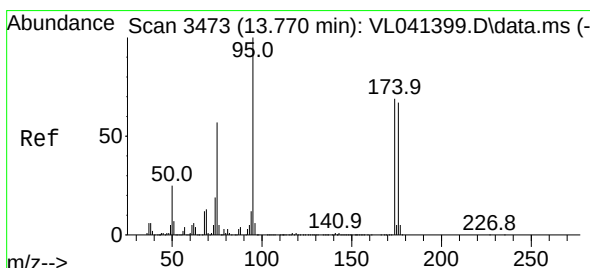
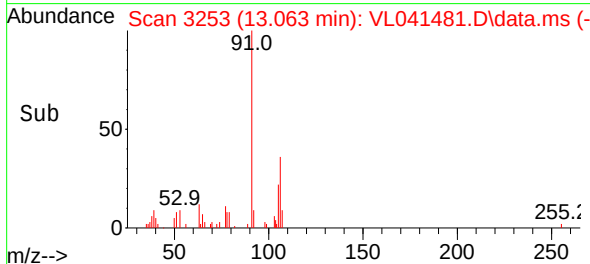
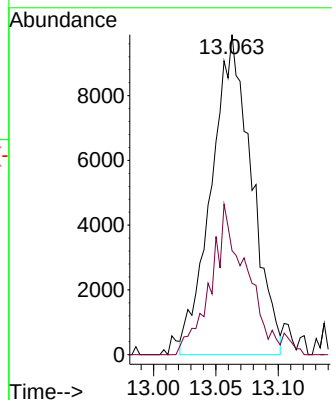
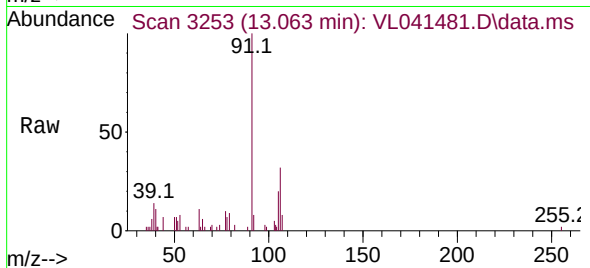
AMBIENT-OUTSIDE

Tgt Ion: 91 Resp: 22107

Ion Ratio Lower Upper

91 100

106 43.2 23.1 69.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.153 ppbv

RT: 13.783 min Scan# 3477

Delta R.T. 0.010 min

Lab File: VL041481.D

Acq: 1 Aug 2024 16:59

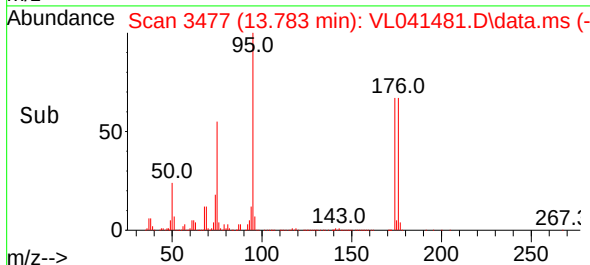
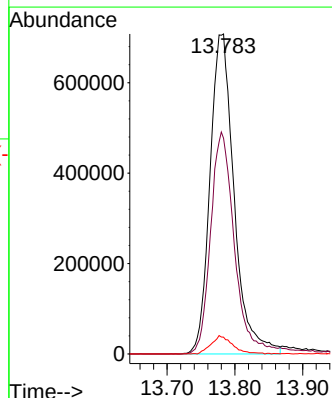
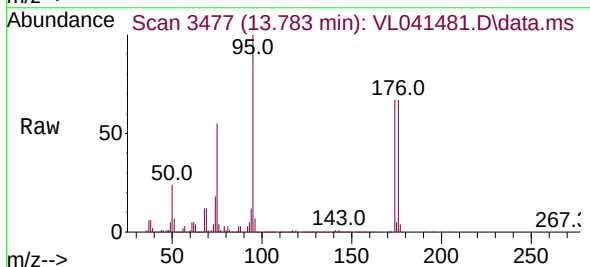
Tgt Ion: 95 Resp: 1751406

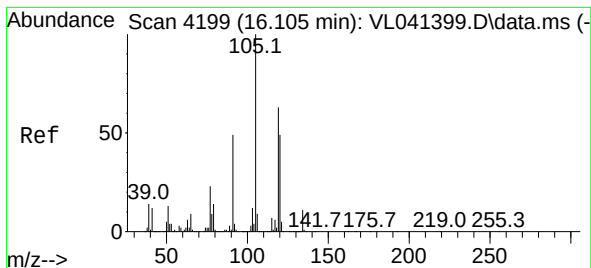
Ion Ratio Lower Upper

95 100

174 70.6 56.3 84.5

175 5.2 4.0 6.0





#74

1,2,4-Trimethylbenzene

Concen: 0.070 ppbv

RT: 16.117 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL041481.D

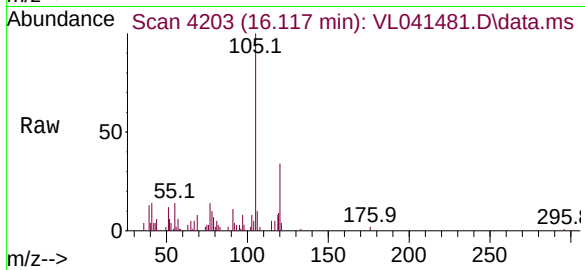
Acq: 1 Aug 2024 16:59

Instrument :

MSVOA_L

ClientSampleId :

AMBIENT-OUTSIDE



Tgt Ion:105 Resp: 17412

Ion Ratio Lower Upper

105 100

120 34.2 39.5 59.3#

91 9.6 39.8 59.8#

77 11.1 18.2 27.4#

