

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091824\
 Data File : VL041610.D
 Acq On : 18 Sep 2024 17:06
 Operator : SY/MD
 Sample : P4028-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 19 01:35:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

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

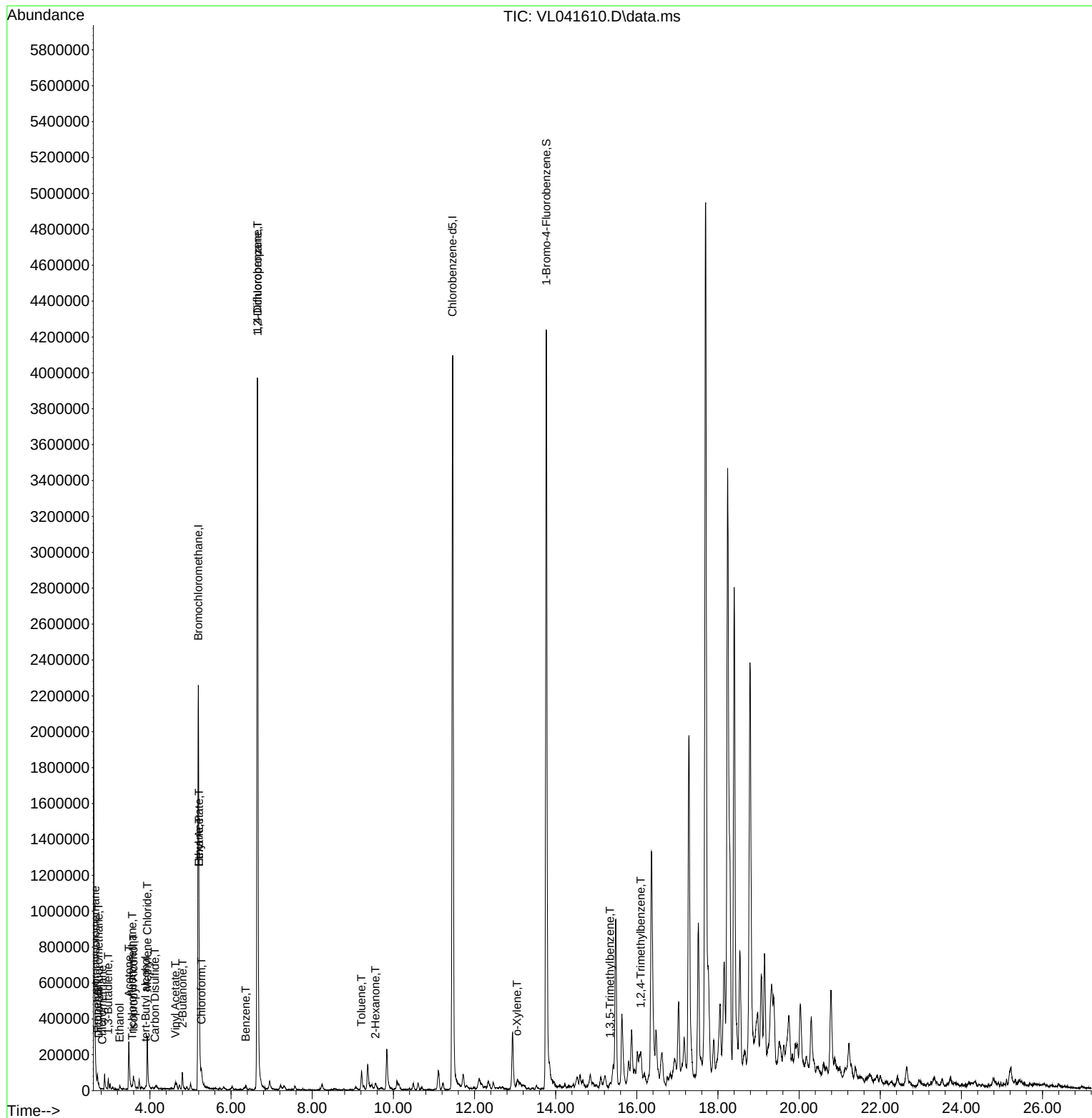
Internal Standards						
1) Bromochloromethane	5.192	49	1122892	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.648	114	3041176	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.458	117	2715672	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	2082607	10.418	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 104.200%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.735	85	14319	0.088	ppbv	93
3) Chlorodifluoromethane	2.655	51	15123	0.111	ppbv #	74
4) Chloromethane	2.822	50	2477	0.033	ppbv #	81
9) Propene	2.700	41	9288	0.162	ppbv #	30
11) Trichlorofluoromethane	3.565	101	7250	0.042	ppbv #	83
13) Ethanol	3.256	45	8293	1.920	ppbv #	16
15) Acetone	3.481	43	300874	2.134	ppbv	97
16) 1,3-Butadiene	2.973	39	15735	0.229	ppbv #	25
17) tert-Butyl alcohol	3.896	59	6433	0.052	ppbv #	74
19) Isopropyl Alcohol	3.594	45	62866	0.871	ppbv #	83
20) Methylene Chloride	3.935	84	98176	1.854	ppbv	98
23) Vinyl Acetate	4.629	43	35955	0.464	ppbv #	94
25) Ethyl Acetate	5.211	43	70758	0.280	ppbv #	80
26) Hexane	5.211	57	97892	0.928	ppbv #	34
27) Carbon Disulfide	4.124	76	6071	0.054	ppbv	94
29) Chloroform	5.269	83	35021	0.203	ppbv	90
34) 2-Butanone	4.803	43	108459	0.748	ppbv	96
36) Benzene	6.362	78	6561	0.031	ppbv #	93
39) 1,2-Dichloropropane	6.651	63	765281	8.907	ppbv #	24
51) 2-Hexanone	9.558	43	17126	0.101	ppbv #	47
53) Toluene	9.214	91	73912	0.330	ppbv	97
60) o-Xylene	13.050	91	13531	0.055	ppbv #	30
73) 1,3,5-Trimethylbenzene	15.342	105	9143	0.036	ppbv	89
74) 1,2,4-Trimethylbenzene	16.098	105	71727	0.239	ppbv #	68

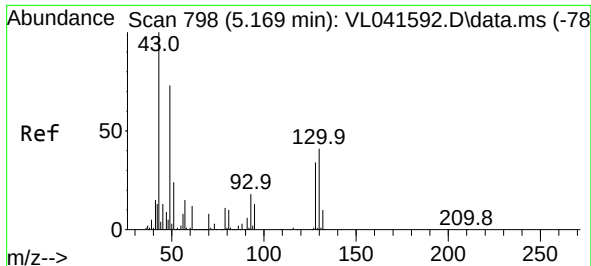
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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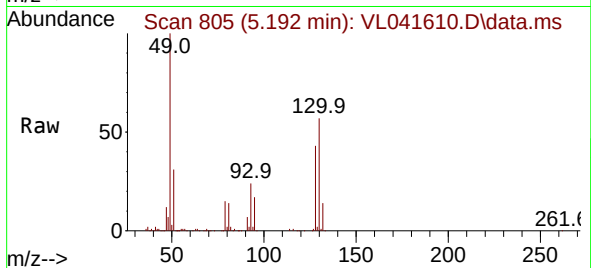
Quant Time: Sep 19 01:35:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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Response via : Initial Calibration



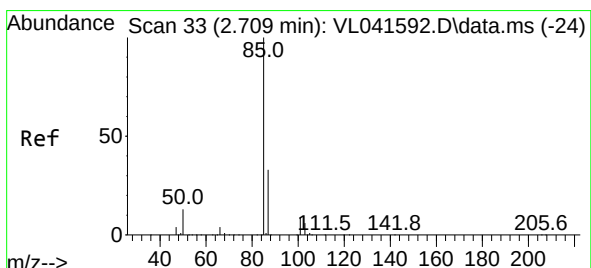
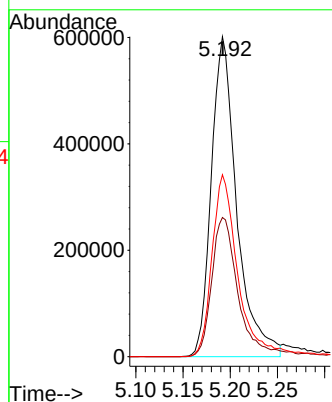
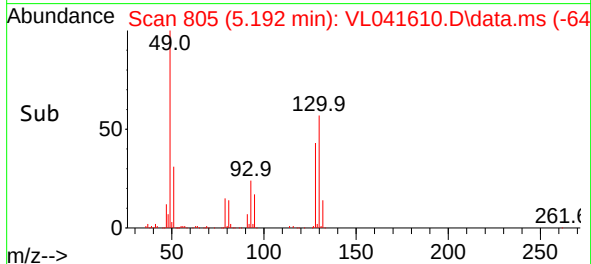


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. 0.023 min
 Lab File: VL041610.D
 Acq: 18 Sep 2024 17:06

Instrument :
 MSVOA_L
 ClientSampleId :

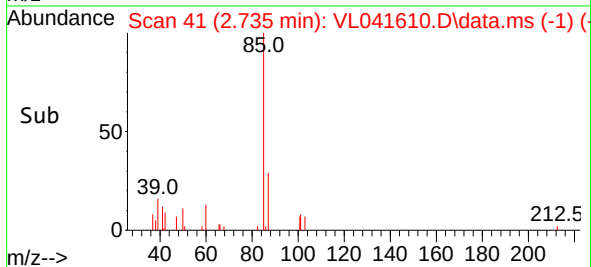
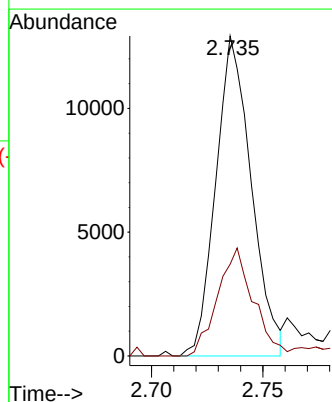
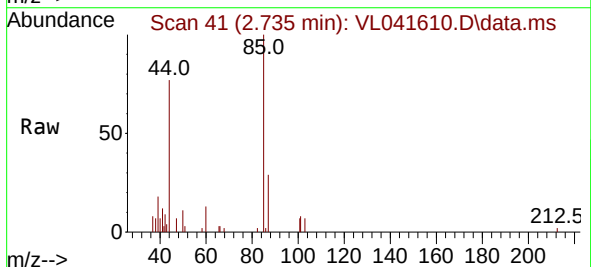


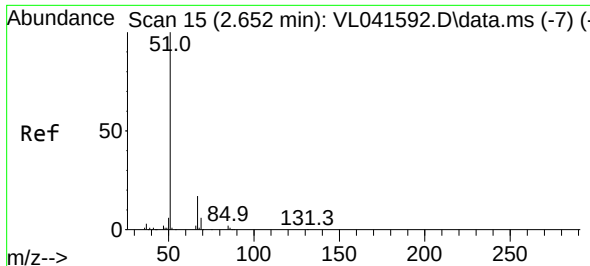
Tgt Ion: 49 Resp: 1122892
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.8 71.5
 130 59.0 30.4 91.3



#2
 Dichlorodifluoromethane
 Concen: 0.088 ppbv
 RT: 2.735 min Scan# 41
 Delta R.T. 0.026 min
 Lab File: VL041610.D
 Acq: 18 Sep 2024 17:06

Tgt Ion: 85 Resp: 14319
 Ion Ratio Lower Upper
 85 100
 87 28.7 26.3 39.5

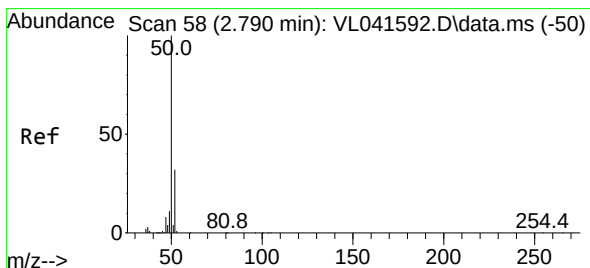
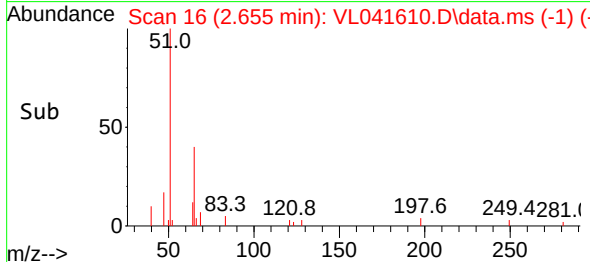
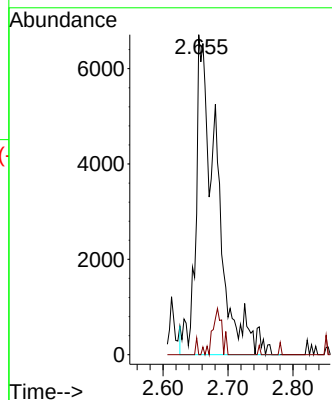
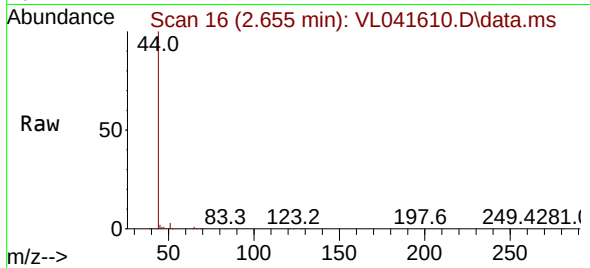




#3
Chlorodifluoromethane
Concen: 0.111 ppbv
RT: 2.655 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

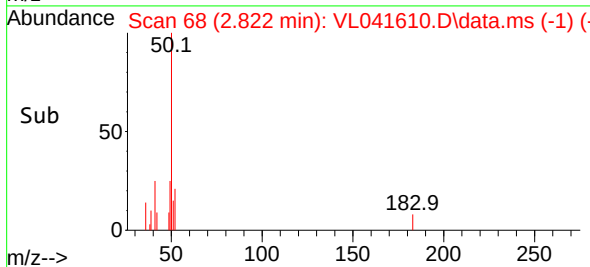
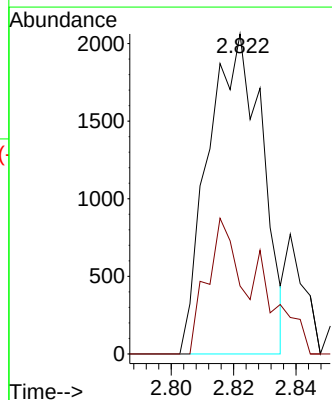
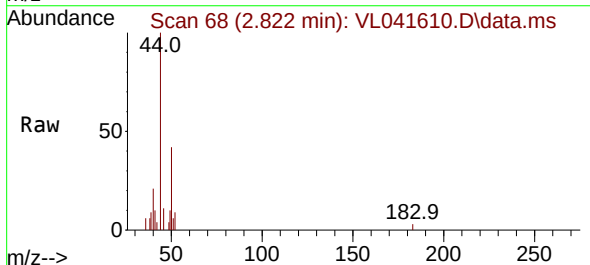
Instrument :
MSVOA_L
ClientSampleId :

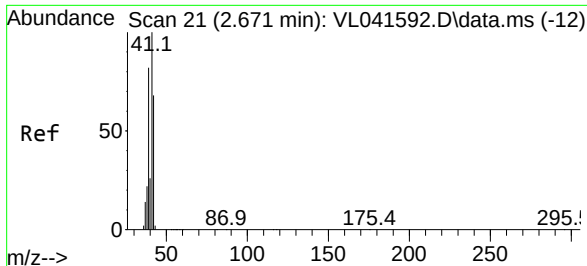
Tgt Ion: 51 Resp: 15123
Ion Ratio Lower Upper
51 100
67 6.4 14.1 21.1#



#4
Chloromethane
Concen: 0.033 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.032 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

Tgt Ion: 50 Resp: 2477
Ion Ratio Lower Upper
50 100
52 21.2 25.4 38.2#





#9

Propene

Concen: 0.162 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.029 min

Lab File: VL041610.D

Acq: 18 Sep 2024 17:06

Instrument :

MSVOA_L

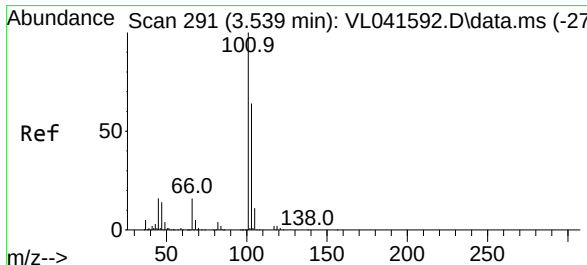
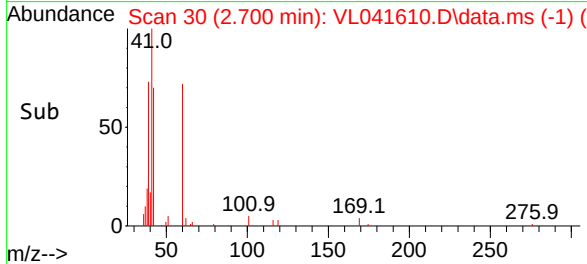
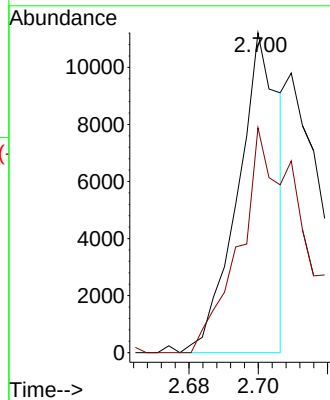
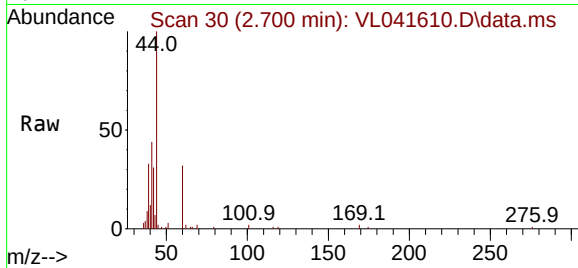
ClientSampleId :

Tgt Ion: 41 Resp: 9288

Ion Ratio Lower Upper

41 100

42 125.6 55.2 82.8#



#11

Trichlorofluoromethane

Concen: 0.042 ppbv

RT: 3.565 min Scan# 299

Delta R.T. 0.026 min

Lab File: VL041610.D

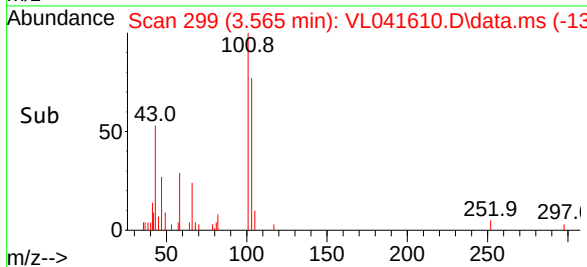
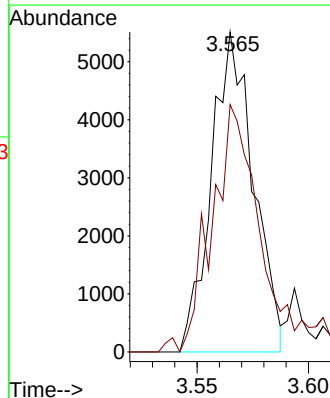
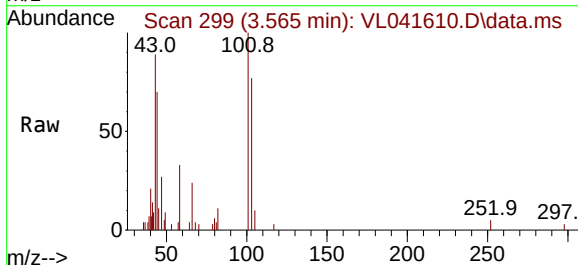
Acq: 18 Sep 2024 17:06

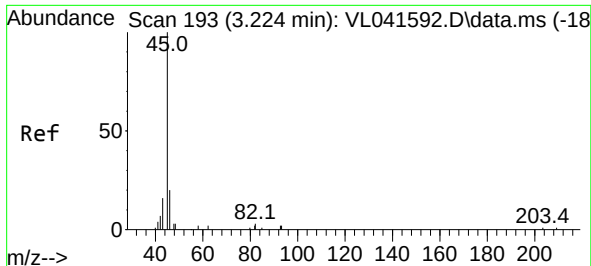
Tgt Ion: 101 Resp: 7250

Ion Ratio Lower Upper

101 100

103 77.3 51.2 76.8#

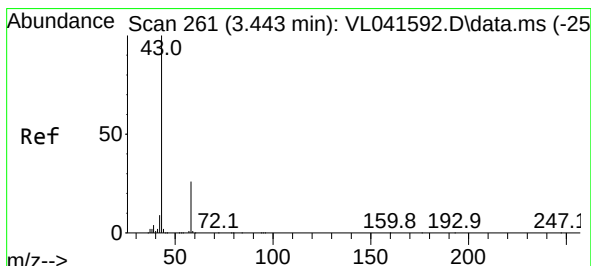
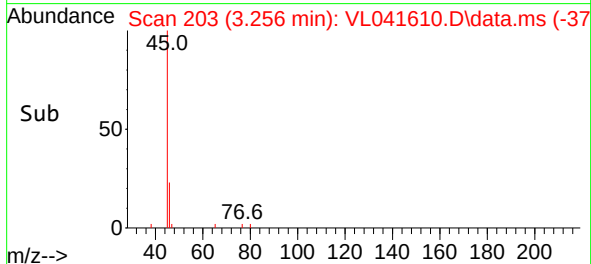
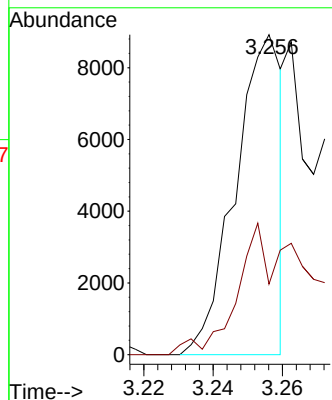
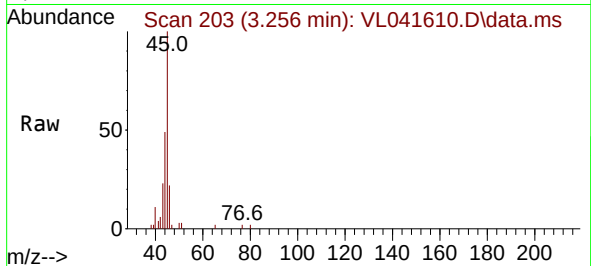




#13
Ethanol
Concen: 1.920 ppbv
RT: 3.256 min Scan# 20
Delta R.T. 0.032 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

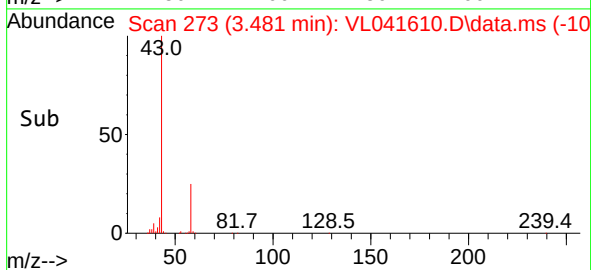
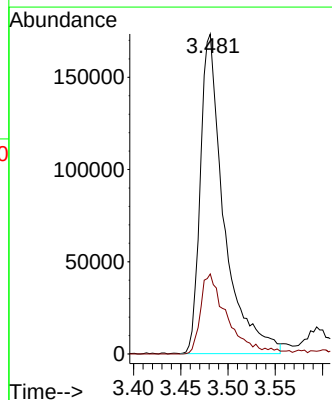
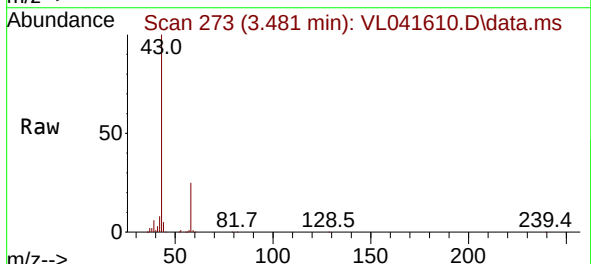
Instrument :
MSVOA_L
ClientSampleId :

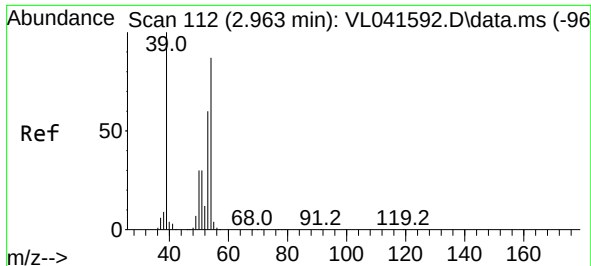
Tgt Ion: 45 Resp: 8293
Ion Ratio Lower Upper
45 100
46 88.6 15.2 60.8#



#15
Acetone
Concen: 2.134 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.039 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

Tgt Ion: 43 Resp: 300874
Ion Ratio Lower Upper
43 100
58 28.7 21.5 32.3

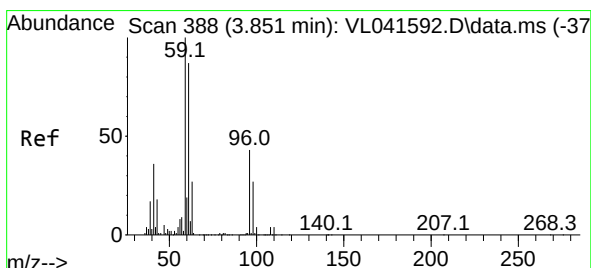
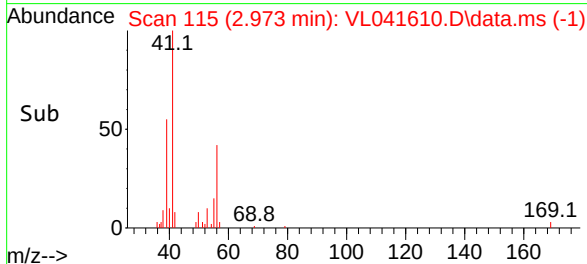
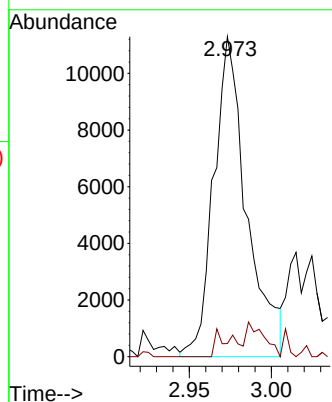
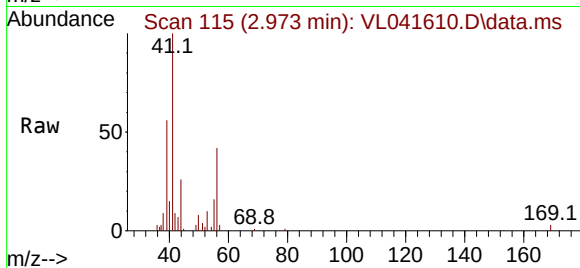




#16
1,3-Butadiene
Concen: 0.229 ppbv
RT: 2.973 min Scan# 11
Delta R.T. 0.010 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

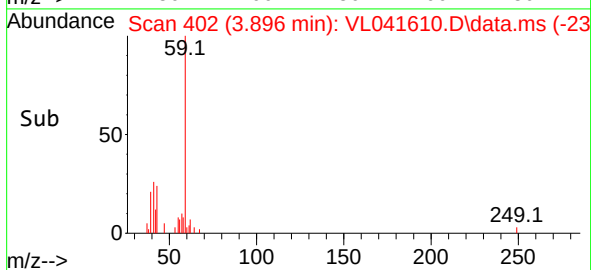
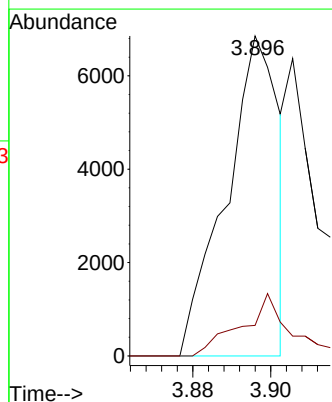
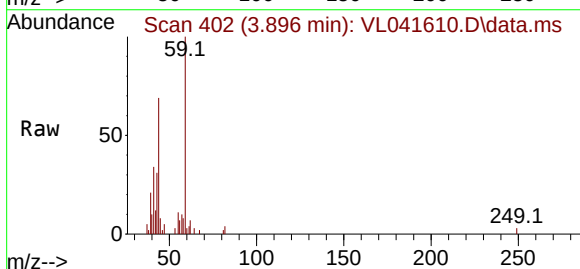
Instrument :
MSVOA_L
ClientSampleId :

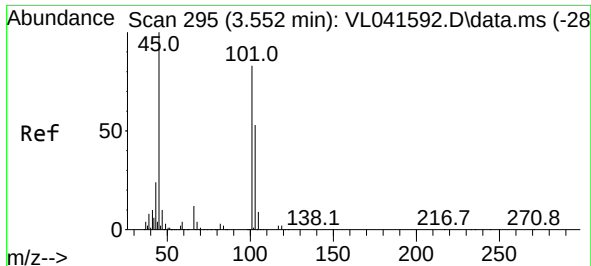
Tgt Ion: 39 Resp: 15735
Ion Ratio Lower Upper
39 100
54 13.2 62.9 94.3#



#17
tert-Butyl alcohol
Concen: 0.052 ppbv
RT: 3.896 min Scan# 402
Delta R.T. 0.045 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

Tgt Ion: 59 Resp: 6433
Ion Ratio Lower Upper
59 100
57 20.6 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.871 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.042 min

Lab File: VL041610.D

Acq: 18 Sep 2024 17:06

Instrument :

MSVOA_L

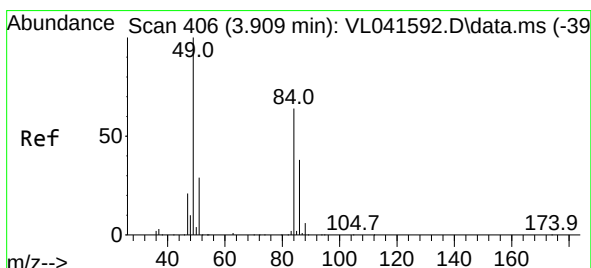
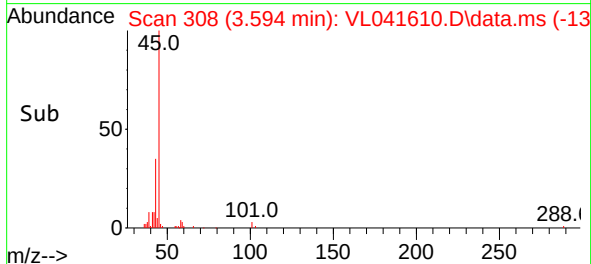
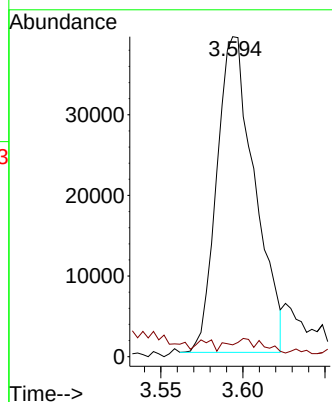
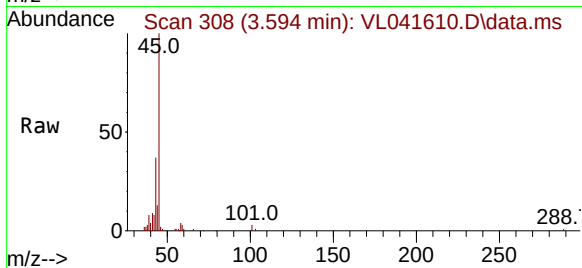
ClientSampleId :

Tgt Ion: 45 Resp: 62866

Ion Ratio Lower Upper

45 100

58 8.5 2.1 3.1#



#20

Methylene Chloride

Concen: 1.854 ppbv

RT: 3.935 min Scan# 414

Delta R.T. 0.026 min

Lab File: VL041610.D

Acq: 18 Sep 2024 17:06

Tgt Ion: 84 Resp: 98176

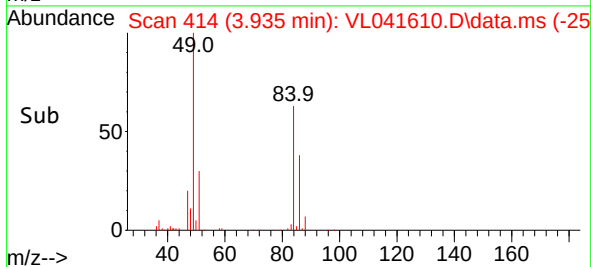
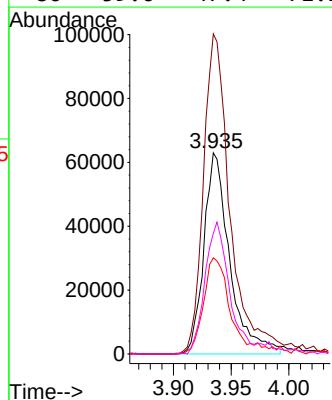
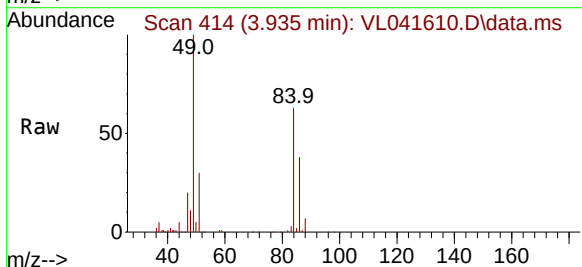
Ion Ratio Lower Upper

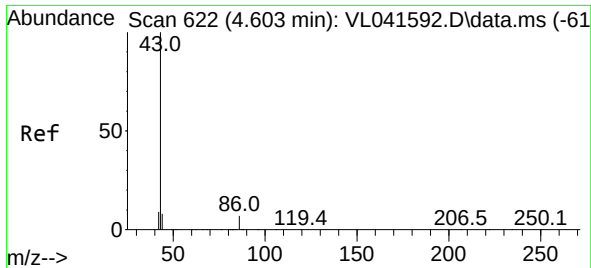
84 100

49 158.7 124.3 186.5

51 47.4 36.3 54.5

86 59.6 47.4 71.2



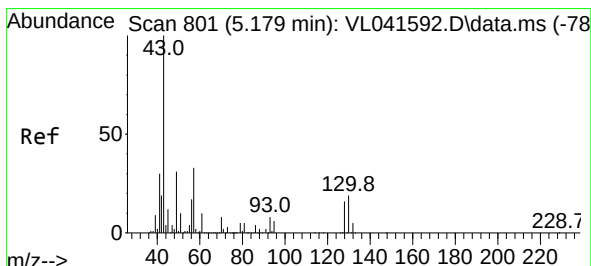
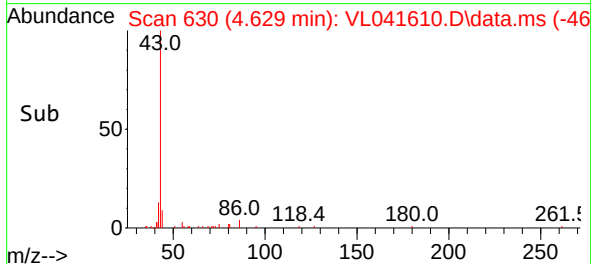
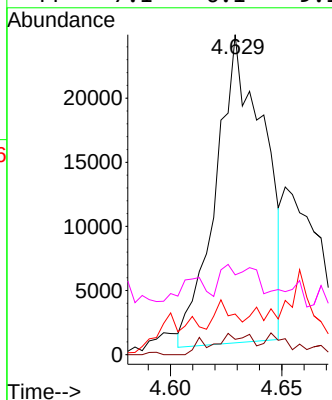
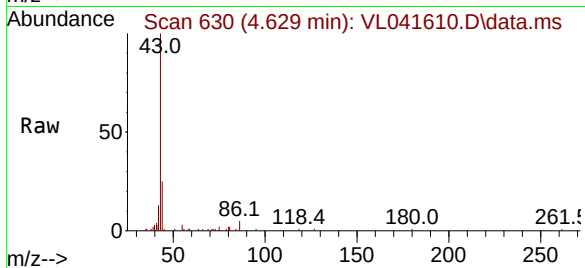


#23
Vinyl Acetate
Concen: 0.464 ppbv
RT: 4.629 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 35955

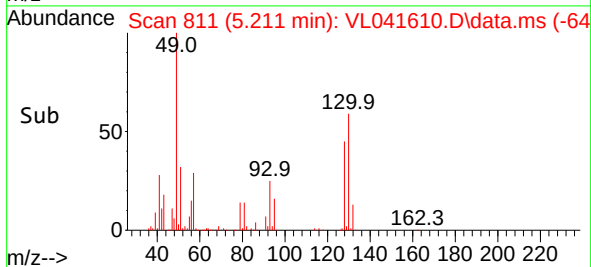
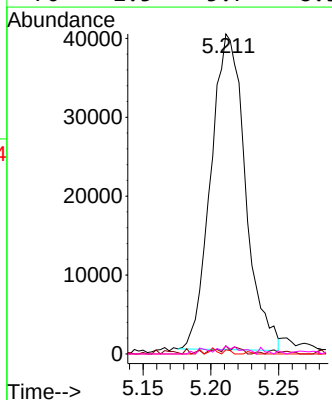
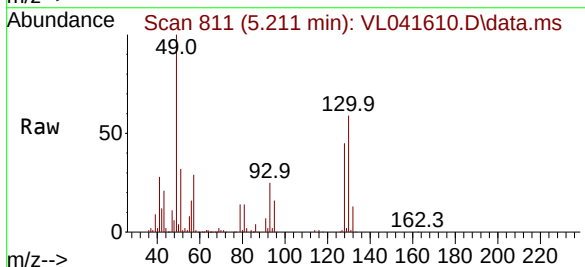
Ion	Ratio	Lower	Upper
43	100		
86	5.1	4.9	7.3
42	5.9	8.0	12.0#
44	7.1	6.1	9.1

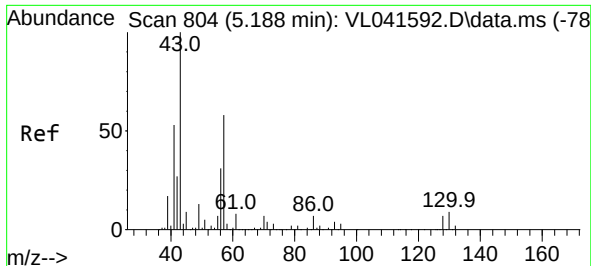


#25
Ethyl Acetate
Concen: 0.280 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.032 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

Tgt Ion: 43 Resp: 70758

Ion	Ratio	Lower	Upper
43	100		
45	2.3	8.2	12.2#
61	0.9	8.0	12.0#
70	2.5	5.7	8.5#

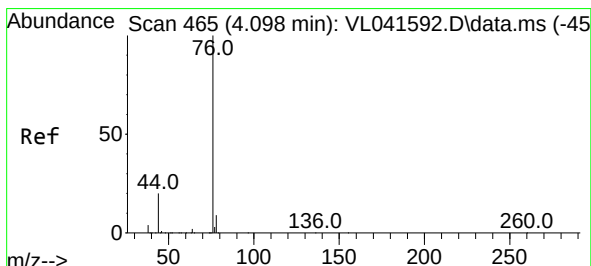
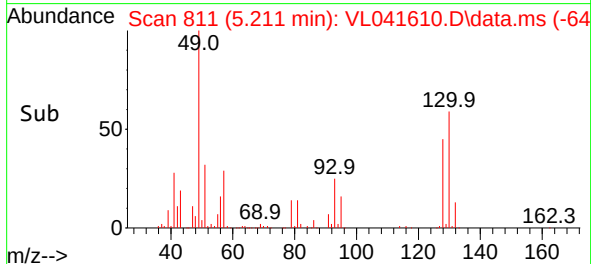
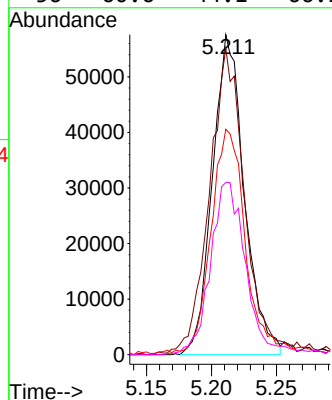
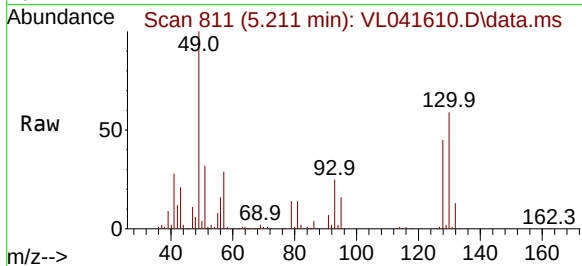




#26
Hexane
Concen: 0.928 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.023 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

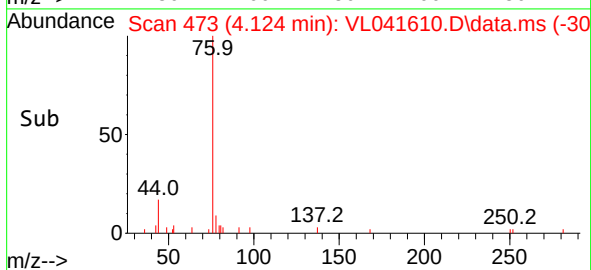
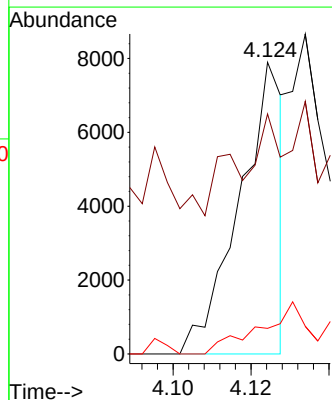
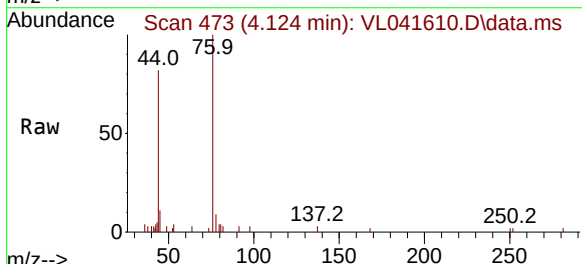
Instrument :
MSVOA_L
ClientSampleId :

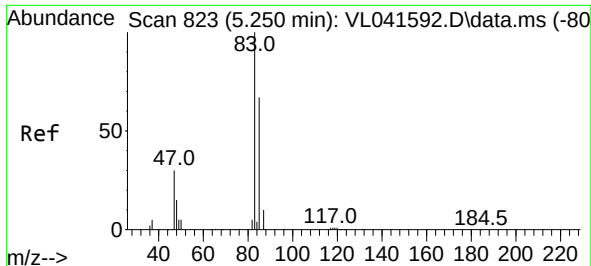
Tgt Ion:	57	Resp:	97892
Ion	Ratio	Lower	Upper
57	100		
41	110.0	75.7	113.5
43	78.6	198.5	297.7#
56	60.6	44.1	66.1



#27
Carbon Disulfide
Concen: 0.054 ppbv
RT: 4.124 min Scan# 473
Delta R.T. 0.026 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

Tgt Ion:	76	Resp:	6071
Ion	Ratio	Lower	Upper
76	100		
44	23.7	15.8	23.8
78	9.1	7.5	11.3





#29

Chloroform

Concen: 0.203 ppbv

RT: 5.269 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL041610.D

Acq: 18 Sep 2024 17:06

Instrument :

MSVOA_L

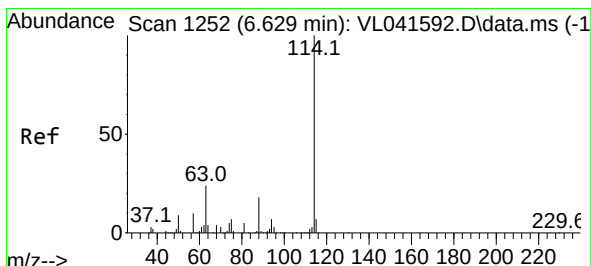
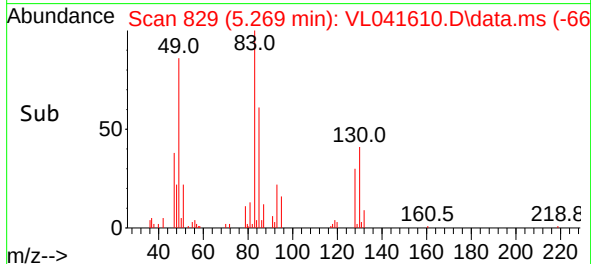
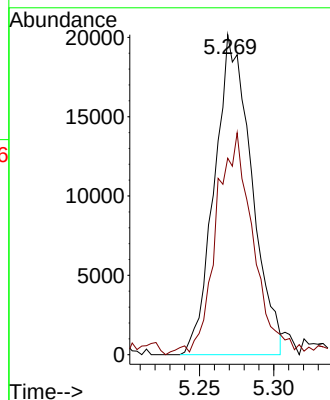
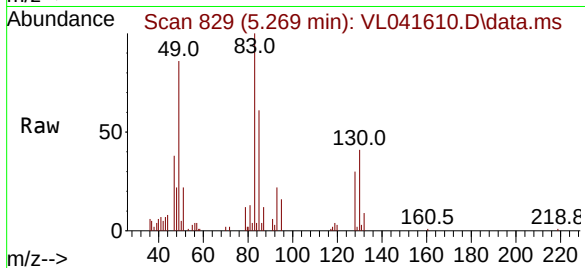
ClientSampleId :

Tgt Ion: 83 Resp: 35021

Ion Ratio Lower Upper

83 100

85 59.2 53.8 80.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. 0.019 min

Lab File: VL041610.D

Acq: 18 Sep 2024 17:06

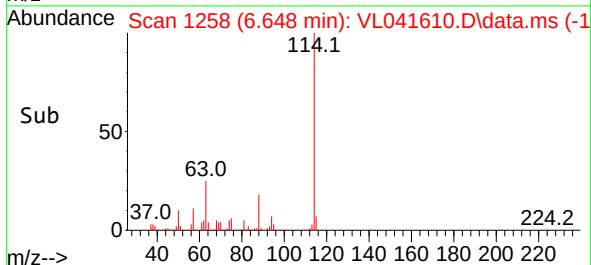
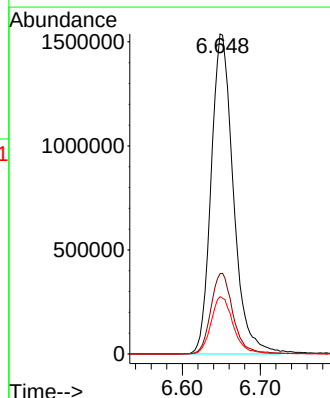
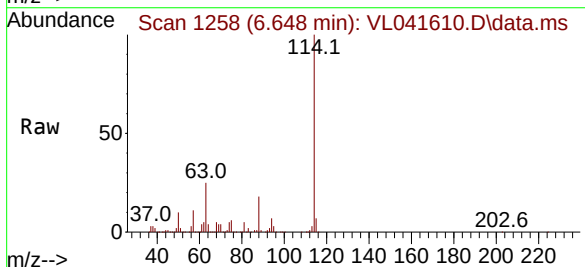
Tgt Ion: 114 Resp: 3041176

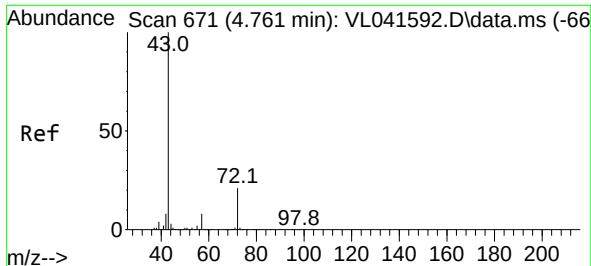
Ion Ratio Lower Upper

114 100

63 25.5 20.2 30.2

88 18.1 14.2 21.4

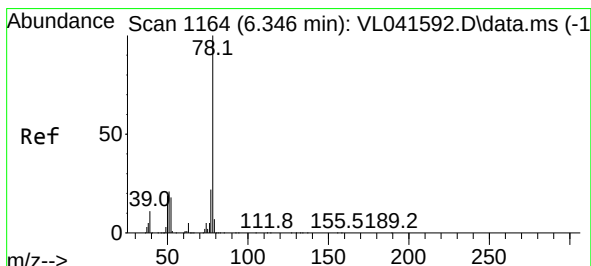
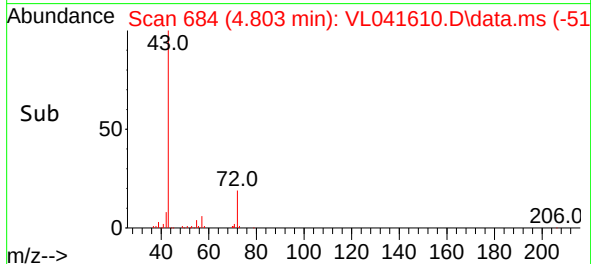
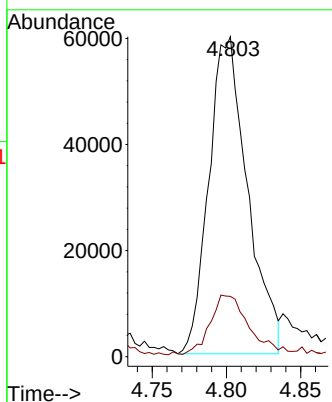
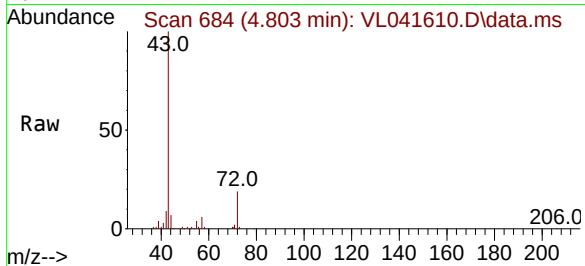




#34
2-Butanone
Concen: 0.748 ppbv
RT: 4.803 min Scan# 61
Delta R.T. 0.042 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

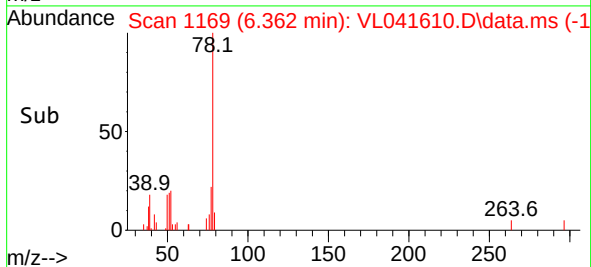
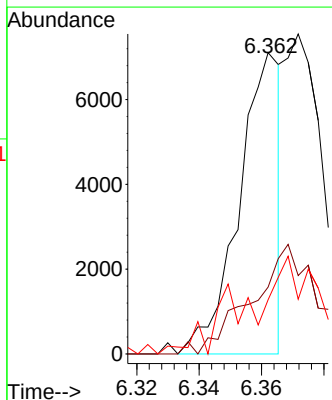
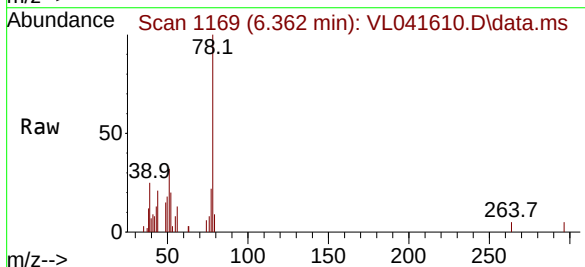
Instrument :
MSVOA_L
ClientSampleId :

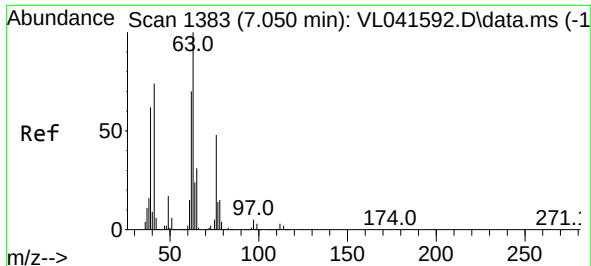
Tgt Ion: 43 Resp: 108459
Ion Ratio Lower Upper
43 100
72 22.6 16.8 25.2



#36
Benzene
Concen: 0.031 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. 0.016 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

Tgt Ion: 78 Resp: 6561
Ion Ratio Lower Upper
78 100
77 22.2 17.8 26.6
50 11.9 15.4 23.0#





#39

1,2-Dichloropropane

Concen: 8.907 ppbv

RT: 6.651 min Scan# 11

Delta R.T. -0.399 min

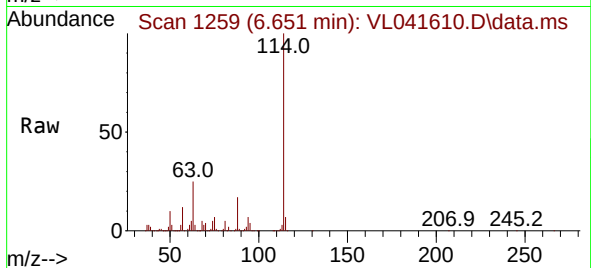
Lab File: VL041610.D

Acq: 18 Sep 2024 17:06

Instrument :

MSVOA_L

ClientSampleId :



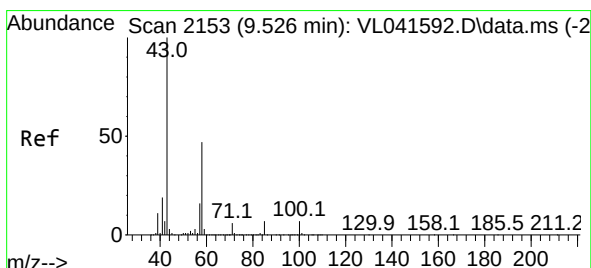
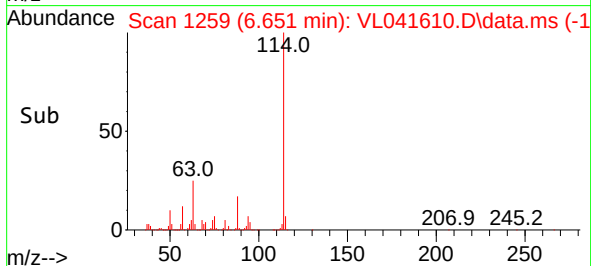
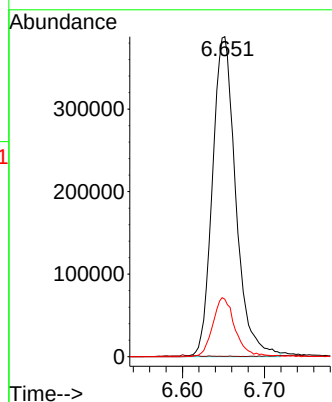
Tgt Ion: 63 Resp: 765281

Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 17.9 56.2 84.2#



#51

2-Hexanone

Concen: 0.101 ppbv

RT: 9.558 min Scan# 2163

Delta R.T. 0.032 min

Lab File: VL041610.D

Acq: 18 Sep 2024 17:06

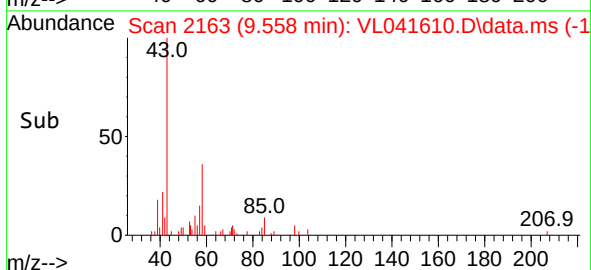
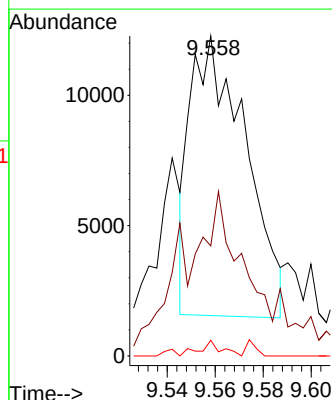
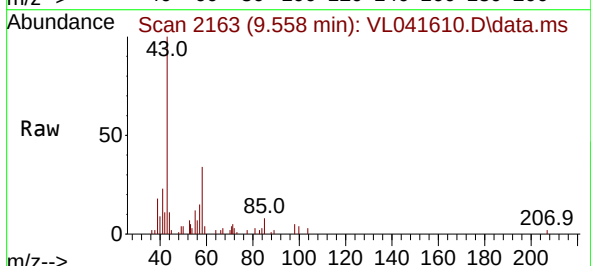
Tgt Ion: 43 Resp: 17126

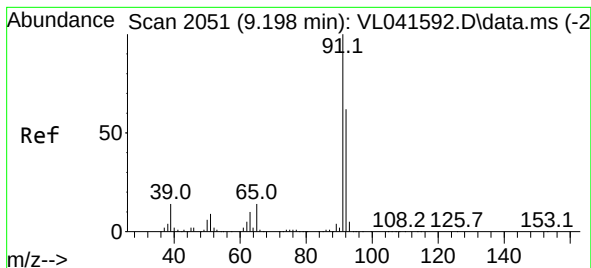
Ion Ratio Lower Upper

43 100

58 82.1 37.2 55.8#

98 0.0 0.5 0.7#





#53

Toluene

Concen: 0.330 ppbv

RT: 9.214 min Scan# 2051

Delta R.T. 0.016 min

Lab File: VL041610.D

Acq: 18 Sep 2024 17:06

Instrument :

MSVOA_L

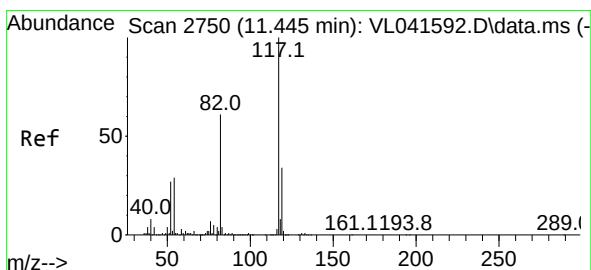
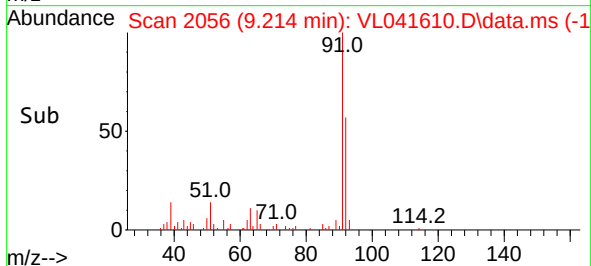
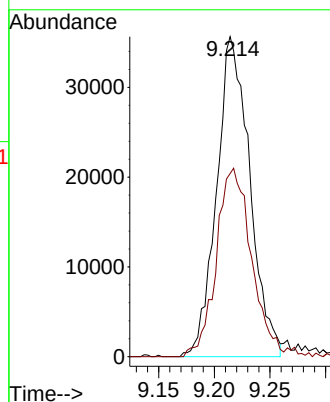
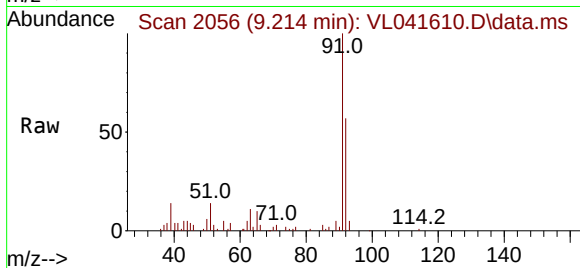
ClientSampleId :

Tgt Ion: 91 Resp: 73912

Ion Ratio Lower Upper

91 100

92 63.4 48.9 73.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 2754

Delta R.T. 0.013 min

Lab File: VL041610.D

Acq: 18 Sep 2024 17:06

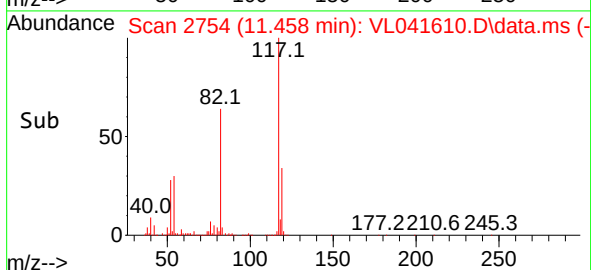
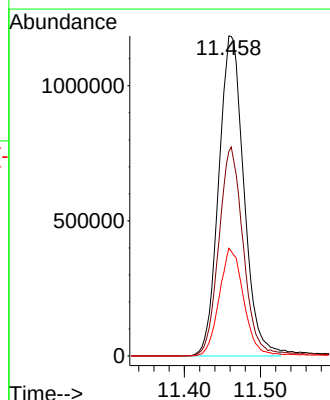
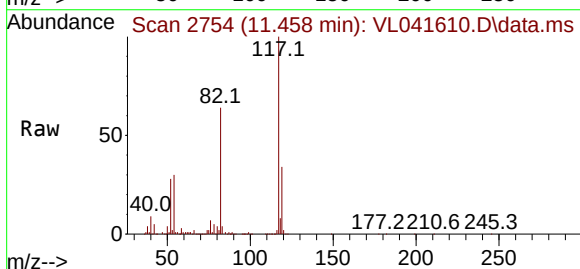
Tgt Ion: 117 Resp: 2715672

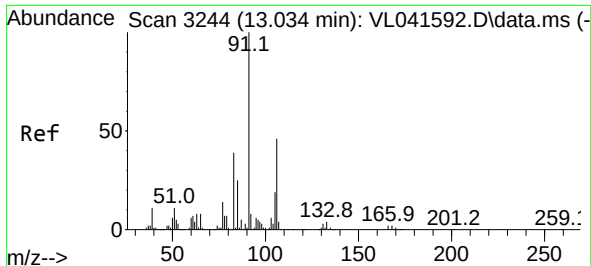
Ion Ratio Lower Upper

117 100

82 65.2 49.4 74.2

119 33.5 24.4 36.6

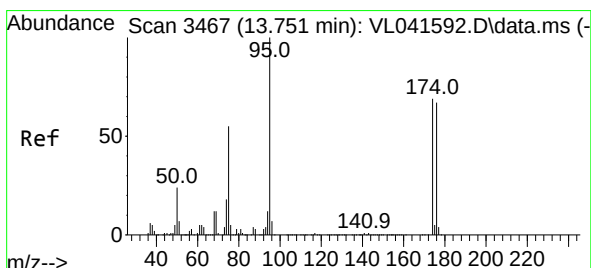
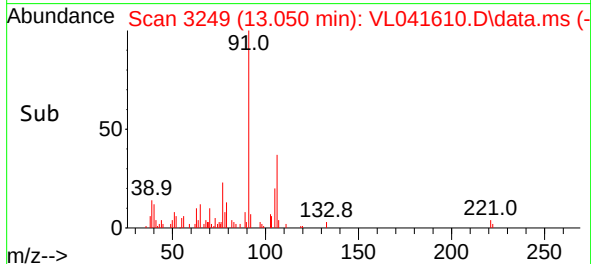
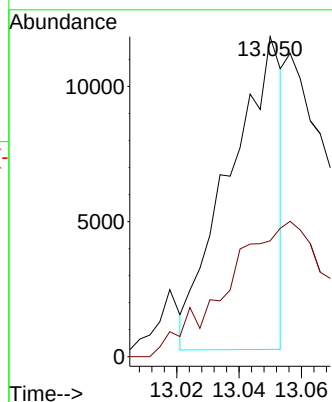
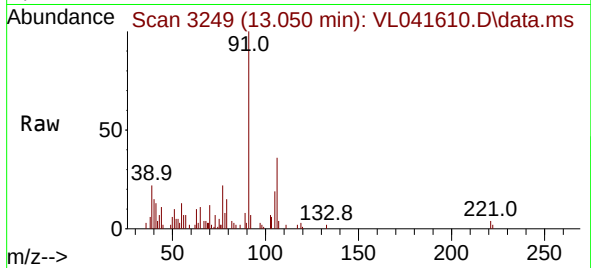




#60
o-Xylene
Concen: 0.055 ppbv
RT: 13.050 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

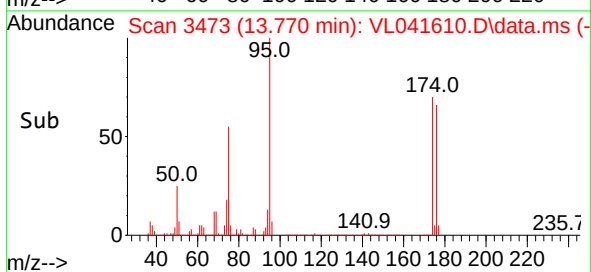
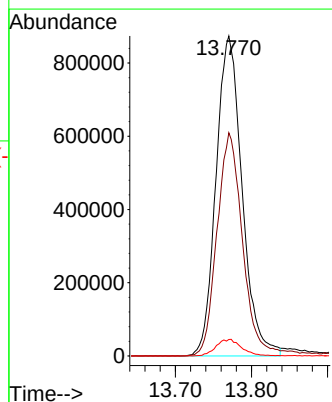
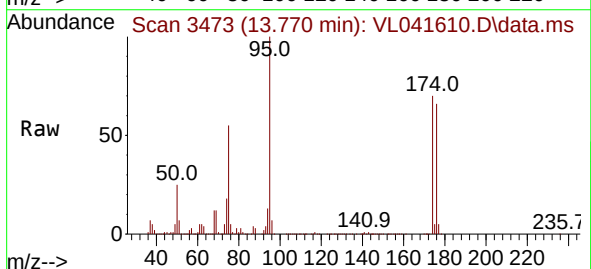
Instrument :
MSVOA_L
ClientSampleId :

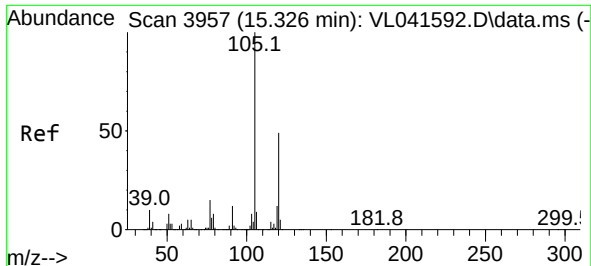
Tgt Ion: 91 Resp: 13531
Ion Ratio Lower Upper
91 100
106 0.0 23.1 69.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.418 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. 0.019 min
Lab File: VL041610.D
Acq: 18 Sep 2024 17:06

Tgt Ion: 95 Resp: 2082607
Ion Ratio Lower Upper
95 100
174 70.4 55.8 83.8
175 5.2 4.1 6.1

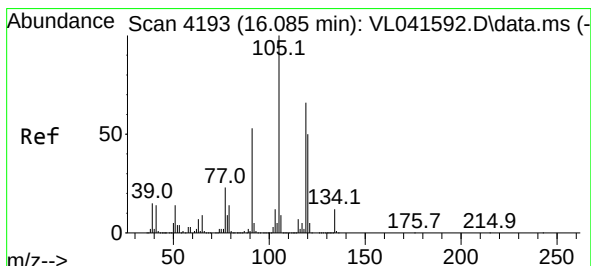
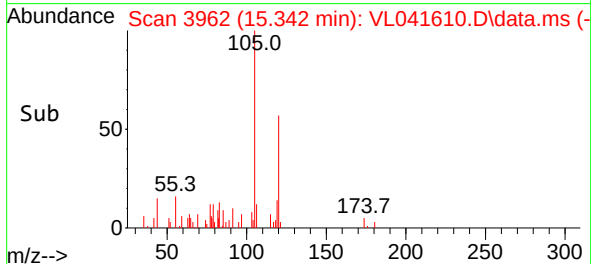
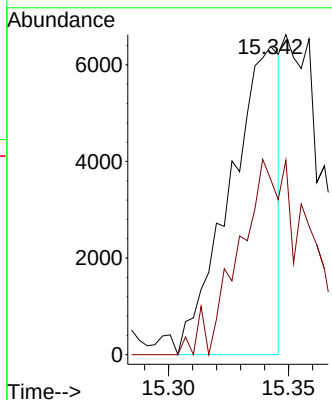
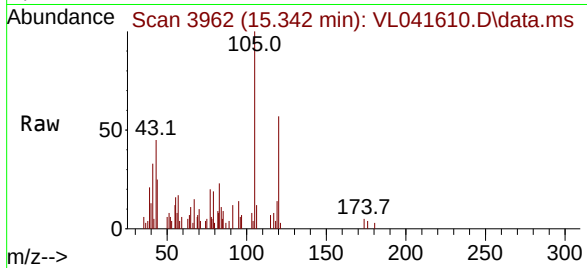




#73
 1,3,5-Trimethylbenzene
 Concen: 0.036 ppbv
 RT: 15.342 min Scan# 3957
 Delta R.T. 0.016 min
 Lab File: VL041610.D
 Acq: 18 Sep 2024 17:06

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion:105 Resp: 9143
 Ion Ratio Lower Upper
 105 100
 120 57.0 39.4 59.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.239 ppbv
 RT: 16.098 min Scan# 4197
 Delta R.T. 0.013 min
 Lab File: VL041610.D
 Acq: 18 Sep 2024 17:06

Tgt Ion:105 Resp: 71727
 Ion Ratio Lower Upper
 105 100
 120 45.6 39.9 59.9
 91 9.9 42.6 63.8#
 77 13.1 18.2 27.2#

