

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060524\
 Data File : VL041332.D
 Acq On : 5 Jun 2024 18:13
 Operator : SY/MD
 Sample : P2716-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Jun 06 04:41:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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)

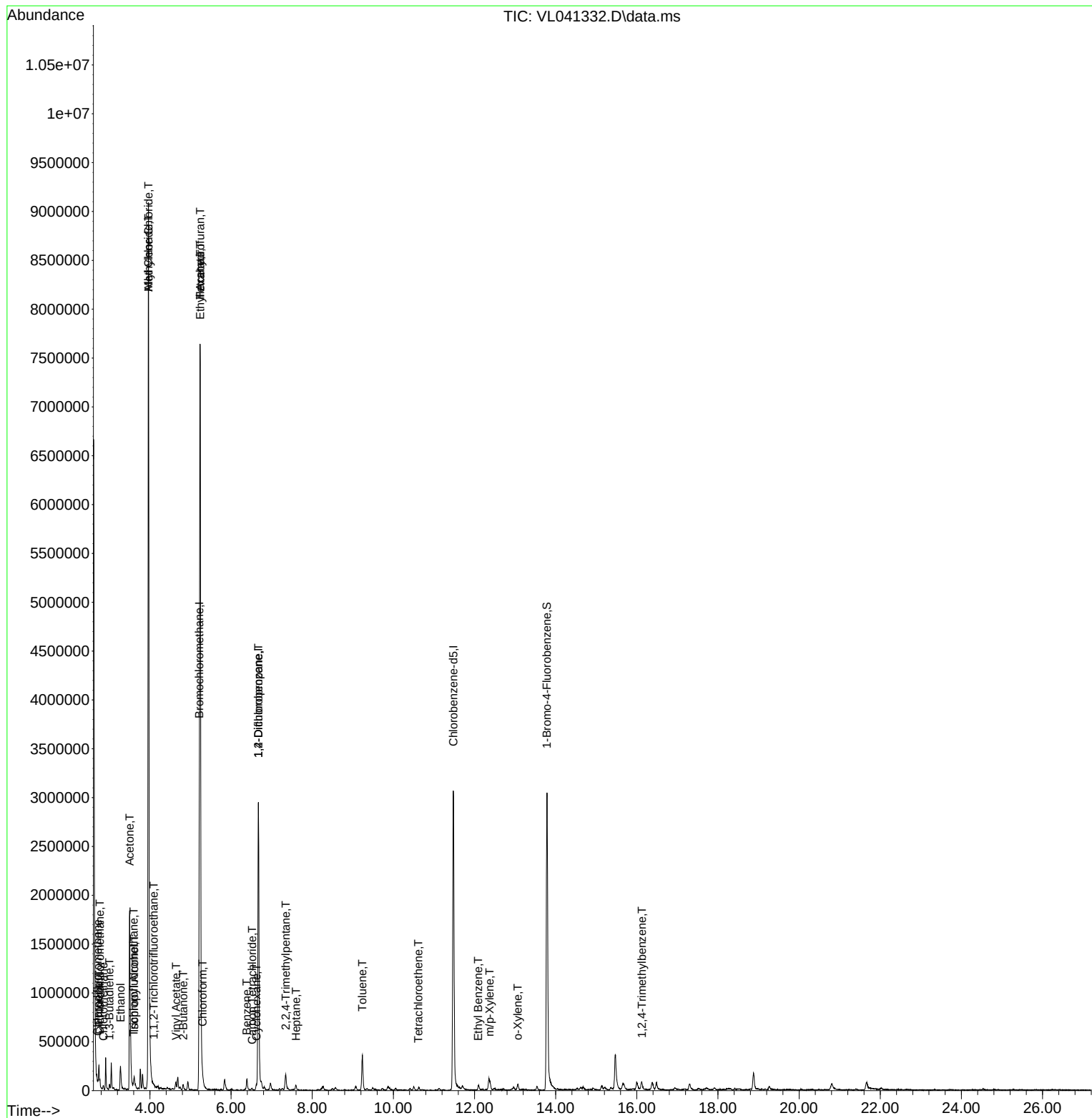
Internal Standards						
1) Bromochloromethane	5.217	49	870562	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.674	114	2214745	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.478	117	1999811	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	1518957	9.838	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.767	85	53714	0.386	ppbv	99
3) Chlorodifluoromethane	2.716	51	100835	0.733	ppbv #	85
4) Chloromethane	2.851	50	33968	0.656	ppbv	93
9) Propene	2.735	41	65957	1.346	ppbv	93
10) Heptane	7.600	43	13661	0.118	ppbv #	51
11) Trichlorofluoromethane	3.597	101	29480	0.231	ppbv	88
12) 1,1,2-Trichlorotrifluo...	4.092	101	5919	0.066	ppbv #	71
13) Ethanol	3.275	45	251214	19.705	ppbv	94
15) Acetone	3.501	43	1912785	19.244	ppbv	100
16) 1,3-Butadiene	3.002	39	14809	0.296	ppbv #	12
19) Isopropyl Alcohol	3.613	45	114418	1.832	ppbv #	1
20) Methylene Chloride	3.963	84	2968716	82.174	ppbv	95
21) Allyl Chloride	3.963	41	122882	1.951	ppbv #	22
23) Vinyl Acetate	4.648	43	8437	0.083	ppbv #	55
25) Ethyl Acetate	5.240	43	2203431	11.206	ppbv #	77
26) Hexane	5.237	57	3012265	34.065	ppbv #	41
29) Chloroform	5.298	83	8474	0.062	ppbv #	75
30) Cyclohexane	6.629	84	4497	0.063	ppbv #	1
34) 2-Butanone	4.822	43	25485	0.240	ppbv #	24
35) Carbon Tetrachloride	6.516	117	3812	0.030	ppbv #	52
36) Benzene	6.388	78	83747	0.488	ppbv #	93
39) 1,2-Dichloropropane	6.674	63	567739	8.306	ppbv #	23
41) Tetrahydrofuran	5.237	42	1157045	16.760	ppbv #	50
44) 2,2,4-Trimethylpentane	7.346	57	133693	0.453	ppbv #	80
52) Tetrachloroethene	10.619	164	1962	0.031	ppbv	92
53) Toluene	9.233	91	241103	1.221	ppbv	99
58) Ethyl Benzene	12.092	91	19806	0.077	ppbv	95
59) m/p-Xylene	12.375	91	44944	0.205	ppbv #	31
60) o-Xylene	13.066	91	45012	0.215	ppbv	94
74) 1,2,4-Trimethylbenzene	16.124	105	52168	0.218	ppbv #	64

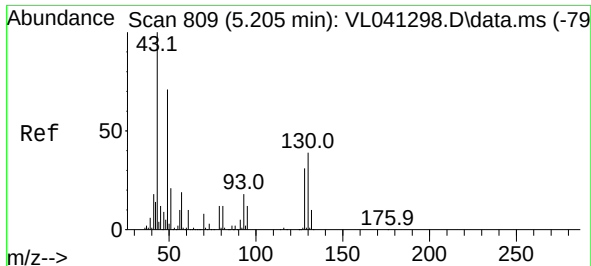
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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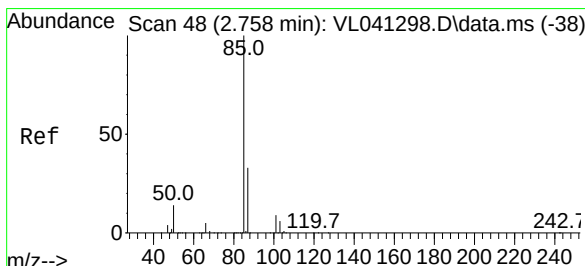
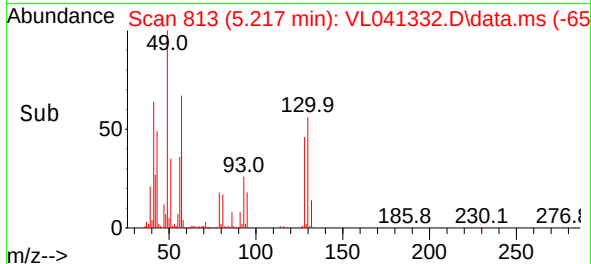
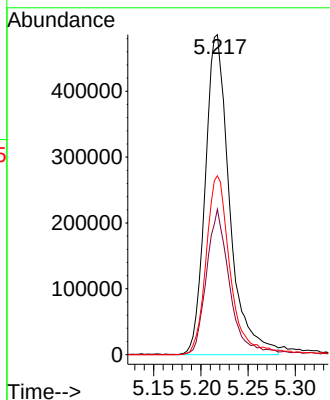
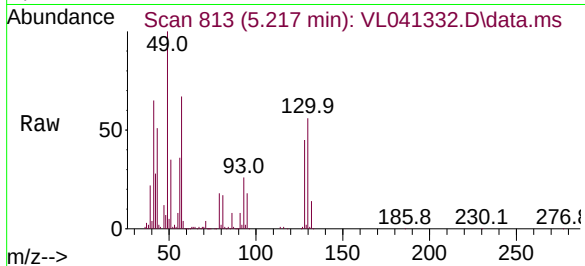




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.217 min Scan# 81
 Delta R.T. 0.012 min
 Lab File: VL041332.D
 Acq: 5 Jun 2024 18:13

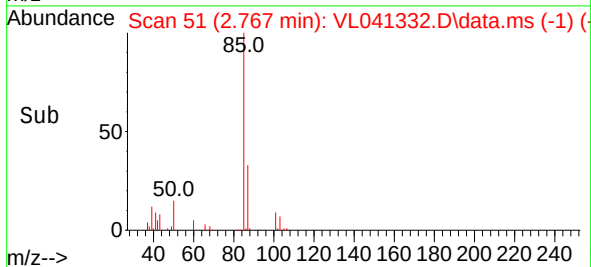
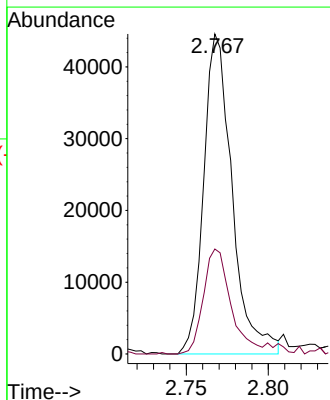
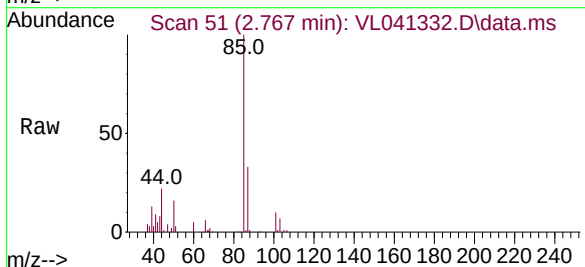
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

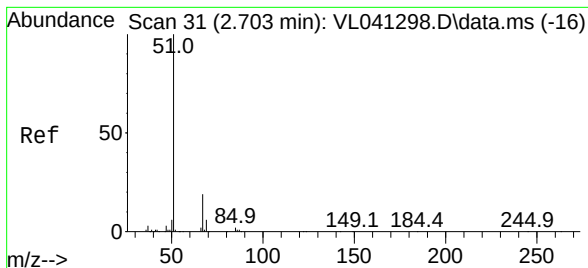
Tgt Ion: 49 Resp: 870562
 Ion Ratio Lower Upper
 49 100
 128 44.4 22.8 68.3
 130 56.9 28.4 85.3



#2
 Dichlorodifluoromethane
 Concen: 0.386 ppbv
 RT: 2.767 min Scan# 51
 Delta R.T. 0.010 min
 Lab File: VL041332.D
 Acq: 5 Jun 2024 18:13

Tgt Ion: 85 Resp: 53714
 Ion Ratio Lower Upper
 85 100
 87 32.8 26.5 39.7





#3

Chlorodifluoromethane

Concen: 0.733 ppbv

RT: 2.716 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_L

ClientSampleId :

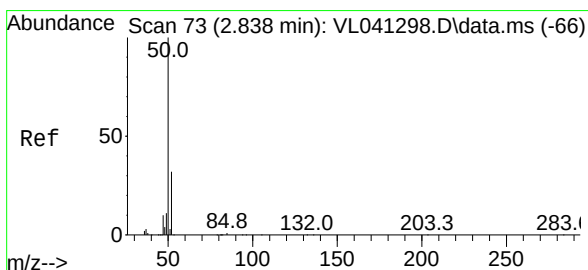
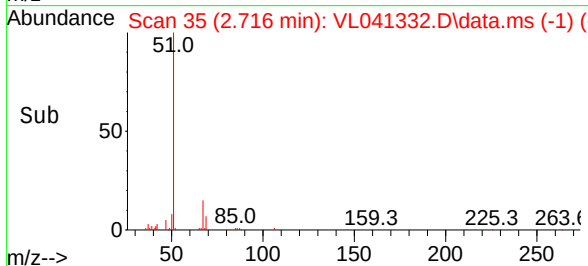
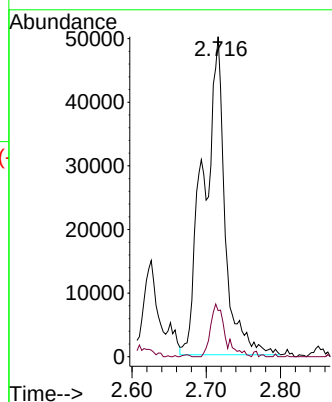
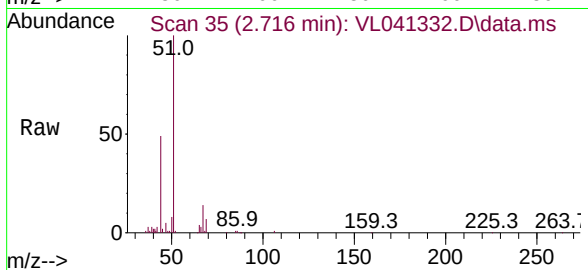
OA1

Tgt Ion: 51 Resp: 100835

Ion Ratio Lower Upper

51 100

67 11.6 14.7 22.1#



#4

Chloromethane

Concen: 0.656 ppbv

RT: 2.851 min Scan# 77

Delta R.T. 0.013 min

Lab File: VL041332.D

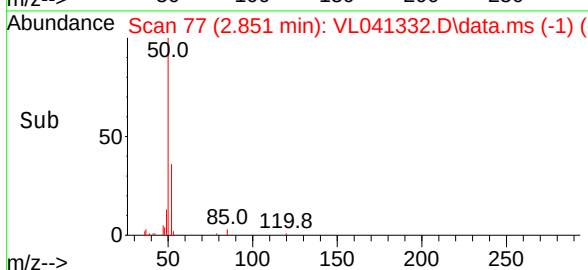
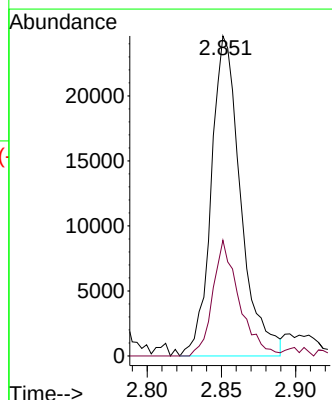
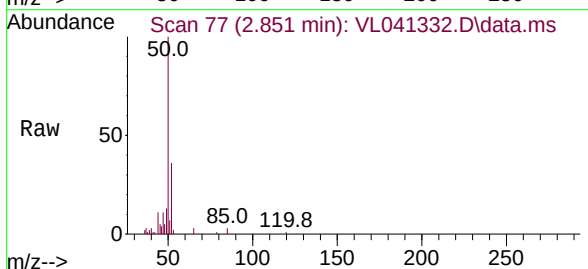
Acq: 5 Jun 2024 18:13

Tgt Ion: 50 Resp: 33968

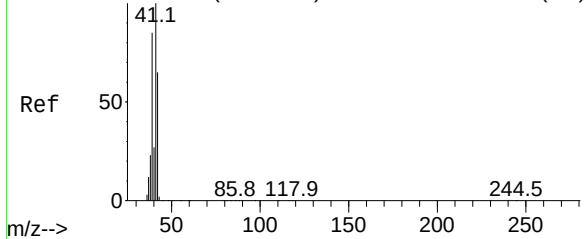
Ion Ratio Lower Upper

50 100

52 36.1 25.6 38.4



Abundance Scan 37 (2.722 min): VL041298.D\data.ms (-27)



#9

Propene

Concen: 1.346 ppbv

RT: 2.735 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_1

ClientSampleId :

OA1

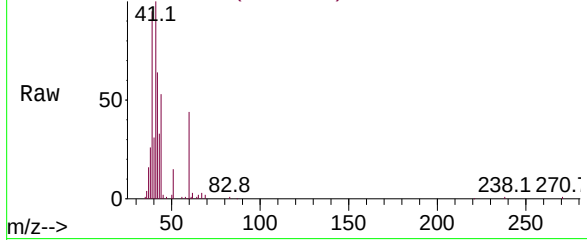
Tgt Ion: 41 Resp: 65957

Ion Ratio Lower Upper

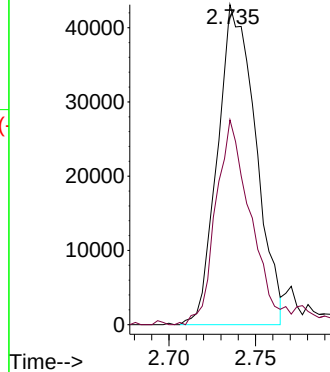
41 100

42 63.4 55.2 82.8

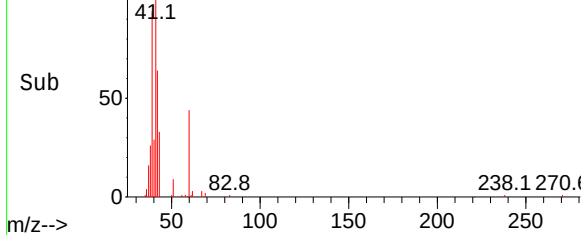
Abundance Scan 41 (2.735 min): VL041332.D\data.ms



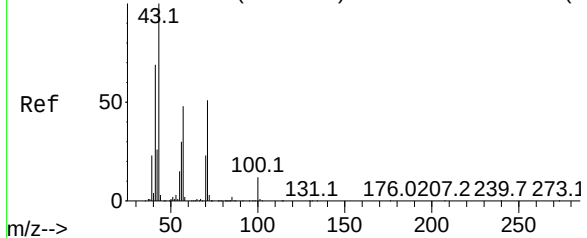
Abundance



Abundance Scan 41 (2.735 min): VL041332.D\data.ms (-1)



Abundance Scan 1548 (7.581 min): VL041298.D\data.ms (-1)



#10

Heptane

Concen: 0.118 ppbv

RT: 7.600 min Scan# 1554

Delta R.T. 0.019 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

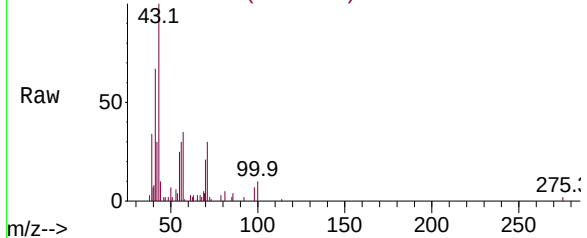
Tgt Ion: 43 Resp: 13661

Ion Ratio Lower Upper

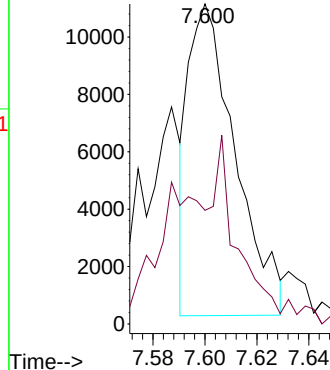
43 100

57 82.0 39.0 58.4#

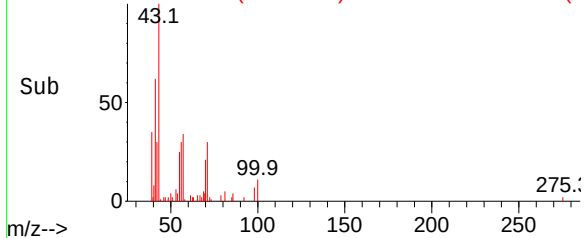
Abundance Scan 1554 (7.600 min): VL041332.D\data.ms

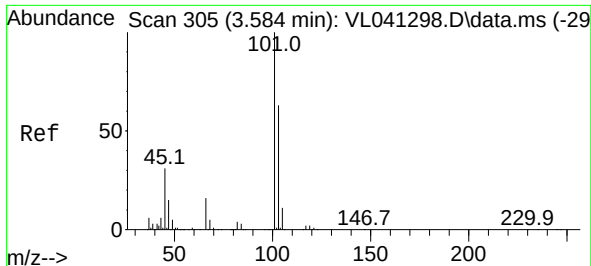


Abundance



Abundance Scan 1554 (7.600 min): VL041332.D\data.ms (-1)

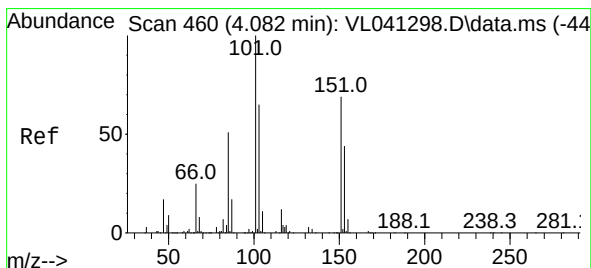
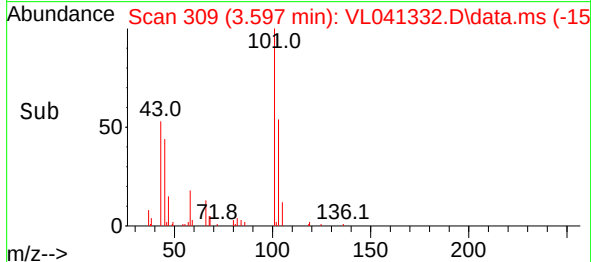
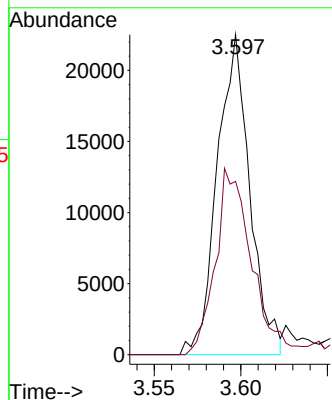
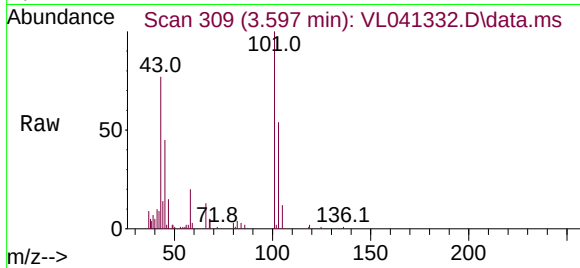




#11
 Trichlorofluoromethane
 Concen: 0.231 ppbv
 RT: 3.597 min Scan# 305
 Delta R.T. 0.013 min
 Lab File: VL041332.D
 Acq: 5 Jun 2024 18:13

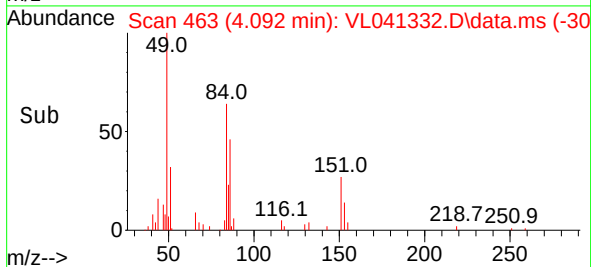
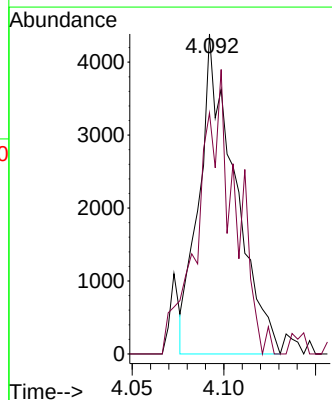
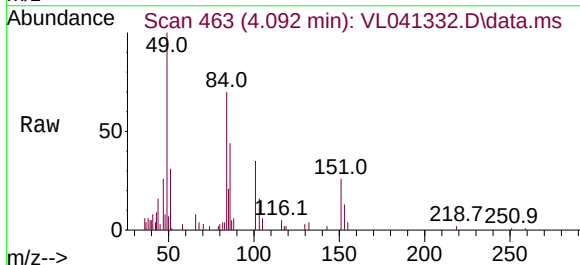
Instrument :
 MSVOA_1
 ClientSampleId :
 OA1

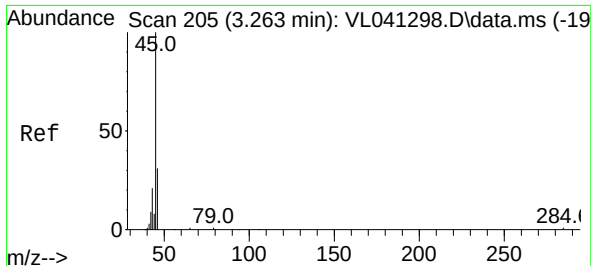
Tgt Ion:101 Resp: 29480
 Ion Ratio Lower Upper
 101 100
 103 54.1 50.6 76.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.066 ppbv
 RT: 4.092 min Scan# 463
 Delta R.T. 0.010 min
 Lab File: VL041332.D
 Acq: 5 Jun 2024 18:13

Tgt Ion:101 Resp: 5919
 Ion Ratio Lower Upper
 101 100
 151 91.9 54.8 82.2#





#13

Ethanol

Concen: 19.705 ppbv

RT: 3.275 min Scan# 209

Delta R.T. 0.013 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_L

ClientSampleId :

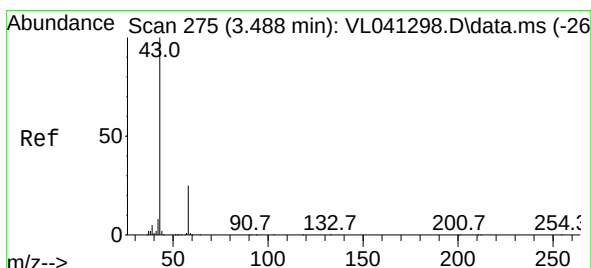
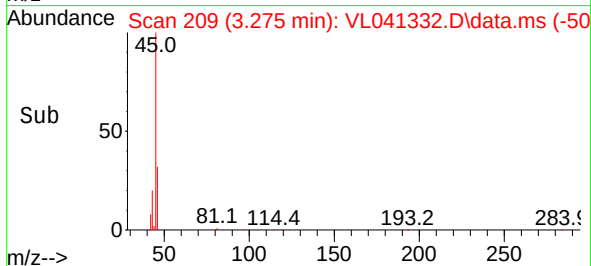
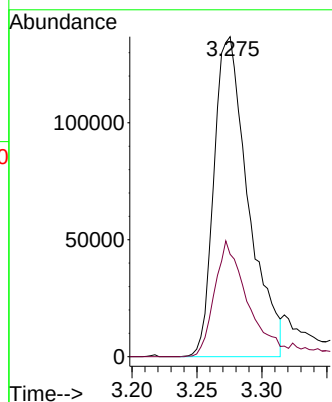
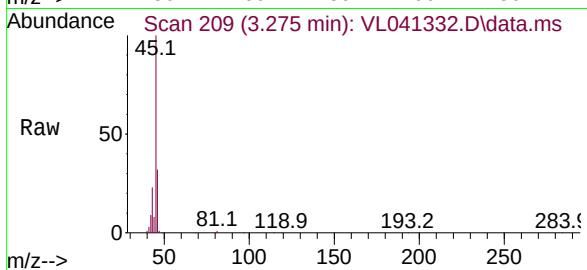
OA1

Tgt Ion: 45 Resp: 251214

Ion Ratio Lower Upper

45 100

46 38.7 14.2 56.6



#15

Acetone

Concen: 19.244 ppbv

RT: 3.501 min Scan# 279

Delta R.T. 0.013 min

Lab File: VL041332.D

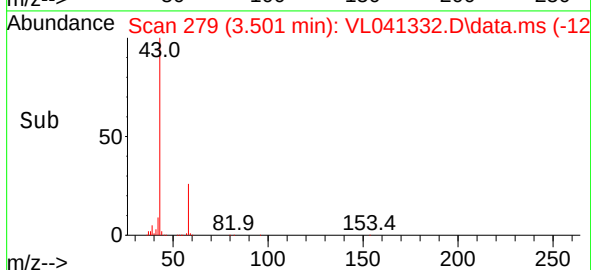
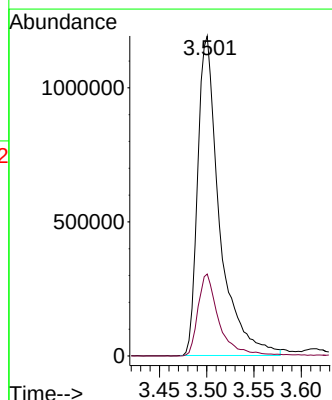
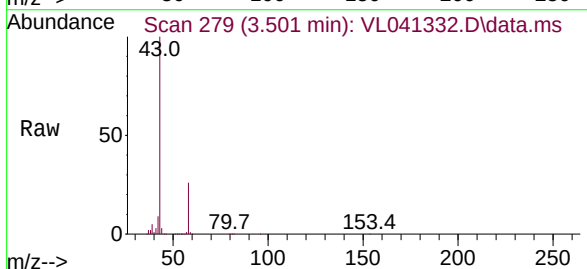
Acq: 5 Jun 2024 18:13

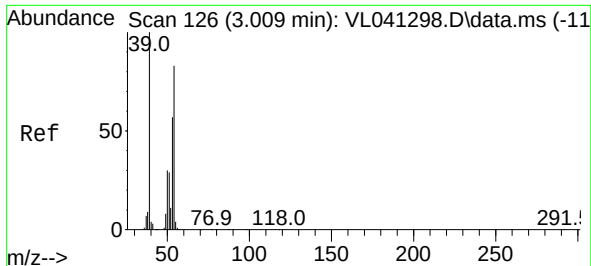
Tgt Ion: 43 Resp: 1912785

Ion Ratio Lower Upper

43 100

58 25.8 20.6 31.0





#16

1,3-Butadiene

Concen: 0.296 ppbv

RT: 3.002 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_L

ClientSampleId :

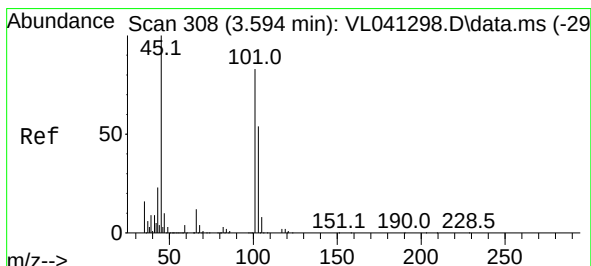
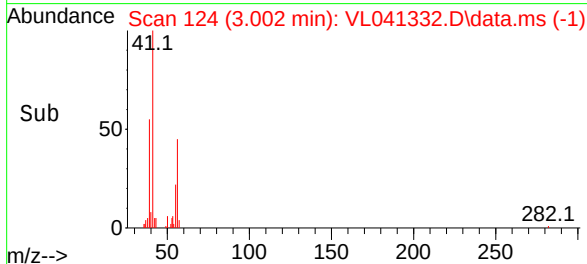
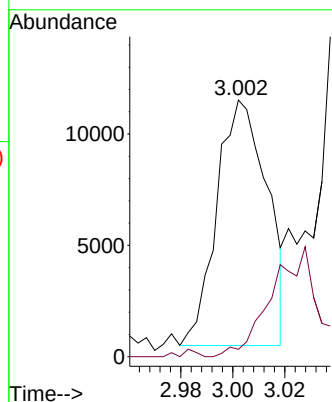
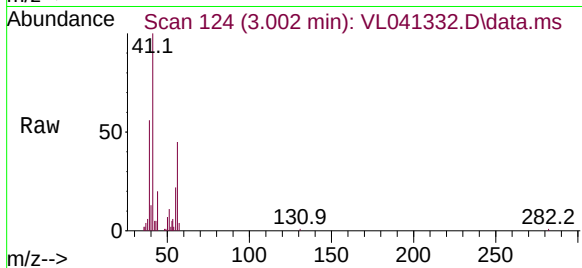
OA1

Tgt Ion: 39 Resp: 14809

Ion Ratio Lower Upper

39 100

54 0.0 60.5 90.7#



#19

Isopropyl Alcohol

Concen: 1.832 ppbv

RT: 3.613 min Scan# 314

Delta R.T. 0.019 min

Lab File: VL041332.D

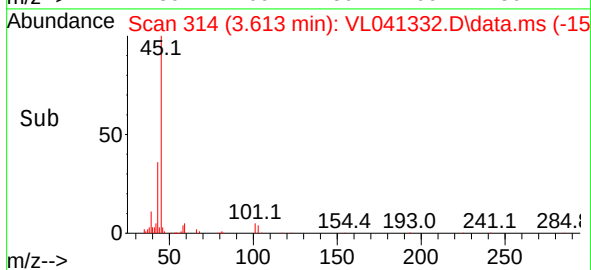
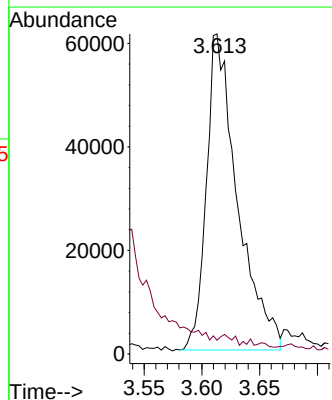
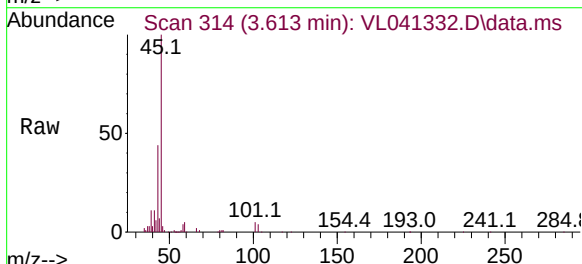
Acq: 5 Jun 2024 18:13

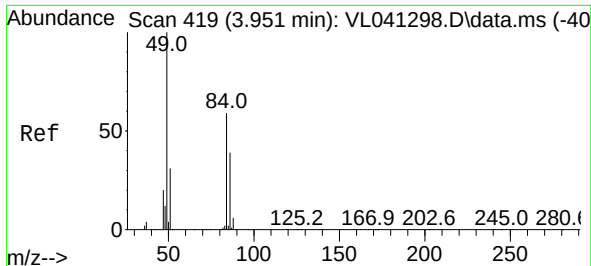
Tgt Ion: 45 Resp: 114418

Ion Ratio Lower Upper

45 100

58 431.7 1.4 2.2#





#20

Methylene Chloride

Concen: 82.174 ppbv

RT: 3.963 min Scan# 419

Delta R.T. 0.013 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 84 Resp: 2968716

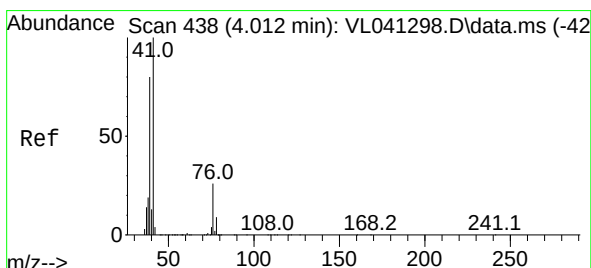
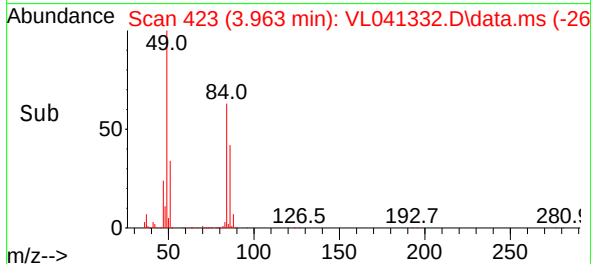
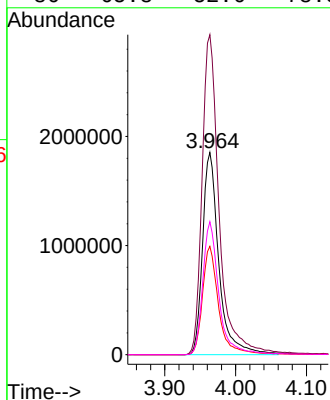
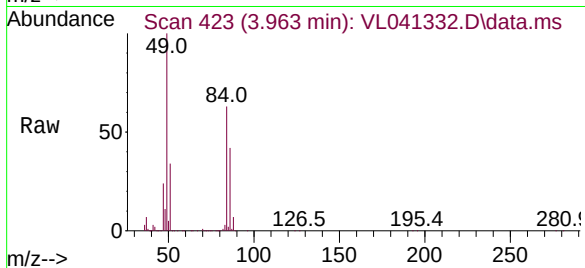
Ion Ratio Lower Upper

84 100

49 158.2 136.2 204.2

51 53.6 41.9 62.9

86 65.8 52.6 78.8



#21

Allyl Chloride

Concen: 1.951 ppbv

RT: 3.963 min Scan# 423

Delta R.T. -0.048 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

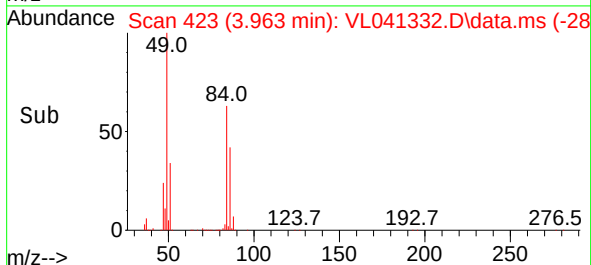
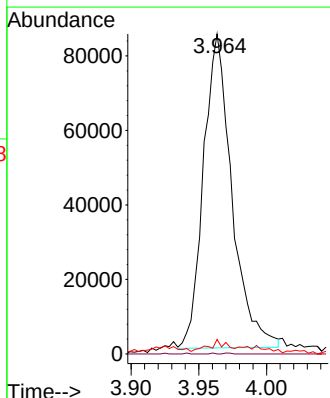
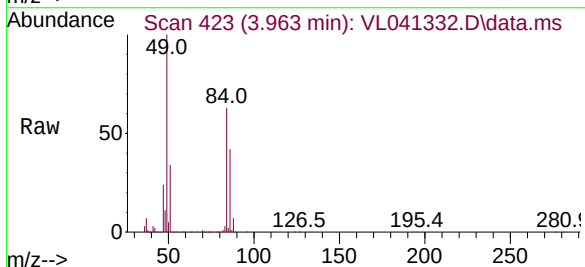
Tgt Ion: 41 Resp: 122882

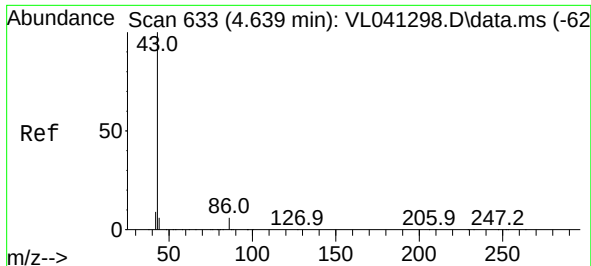
Ion Ratio Lower Upper

41 100

76 0.1 22.3 33.5#

39 5.0 66.3 99.5#





#23

Vinyl Acetate

Concen: 0.083 ppbv

RT: 4.648 min Scan# 61

Delta R.T. 0.010 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 43 Resp: 8437

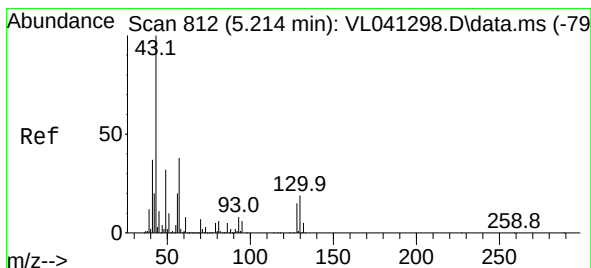
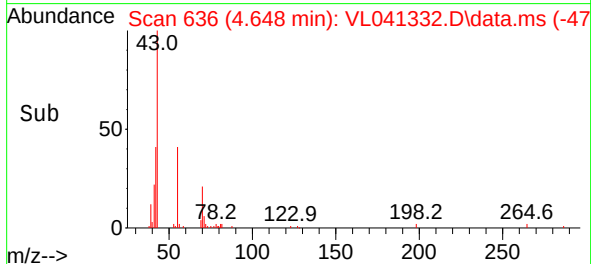
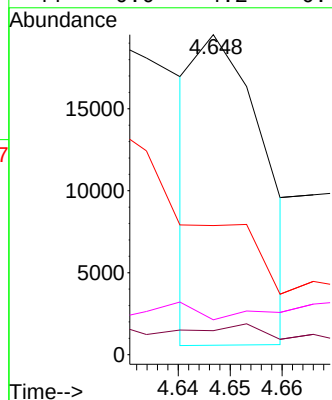
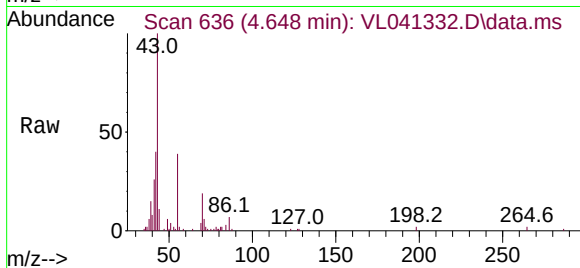
Ion Ratio Lower Upper

43 100

86 5.3 4.7 7.1

42 42.1 8.0 12.0#

44 0.0 4.2 6.4#



#25

Ethyl Acetate

Concen: 11.206 ppbv

RT: 5.240 min Scan# 820

Delta R.T. 0.026 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Tgt Ion: 43 Resp: 2203431

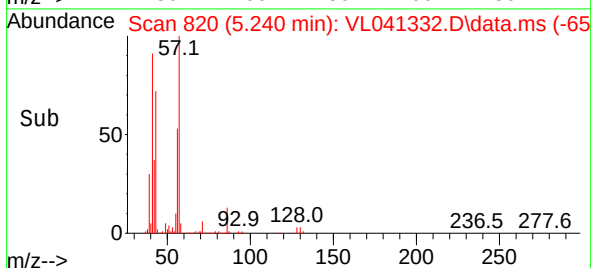
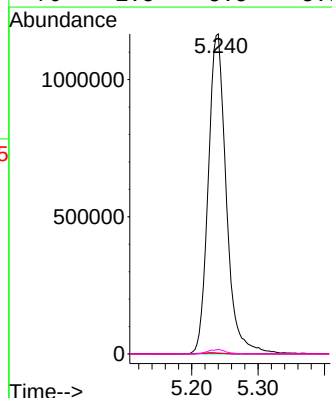
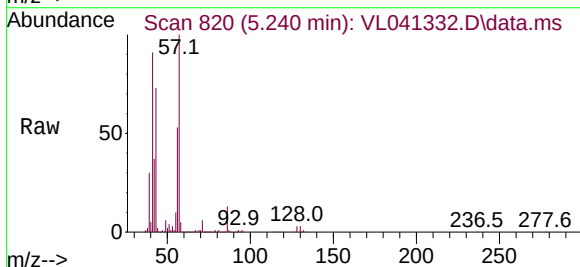
Ion Ratio Lower Upper

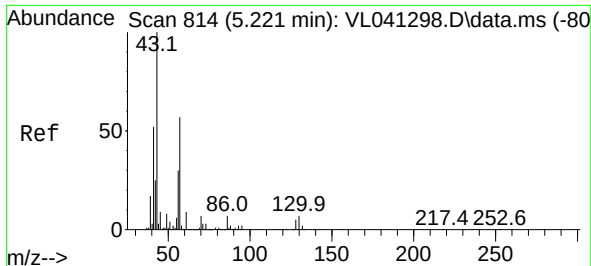
43 100

45 0.4 8.1 12.1#

61 0.4 7.4 11.0#

70 1.5 5.5 8.3#





#26

Hexane

Concen: 34.065 ppbv

RT: 5.237 min Scan# 814

Delta R.T. 0.016 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 57 Resp: 3012265

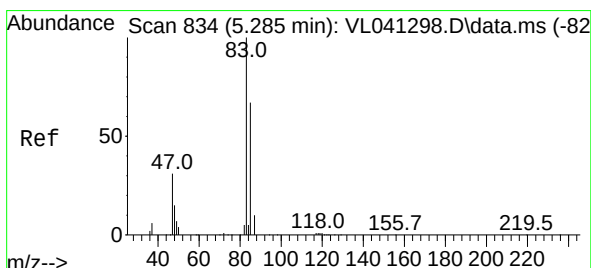
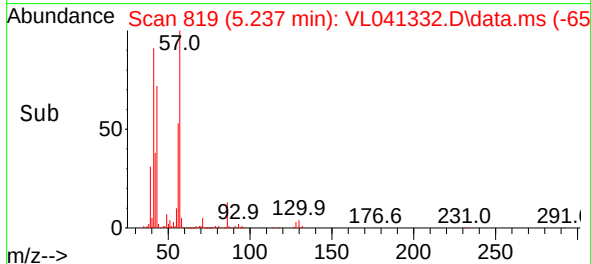
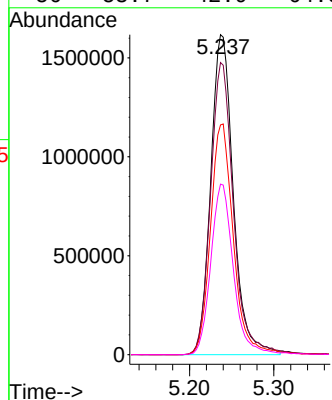
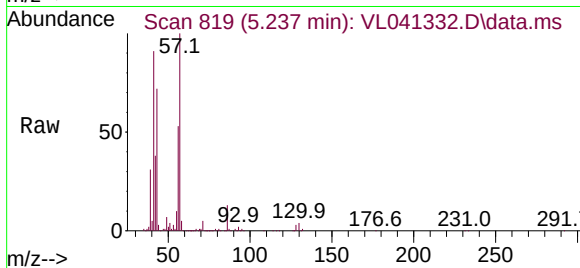
Ion Ratio Lower Upper

57 100

41 93.1 77.1 115.7

43 73.6 186.1 279.1#

56 53.7 42.9 64.3



#29

Chloroform

Concen: 0.062 ppbv

RT: 5.298 min Scan# 838

Delta R.T. 0.013 min

Lab File: VL041332.D

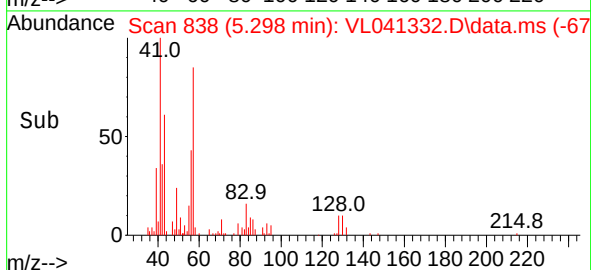
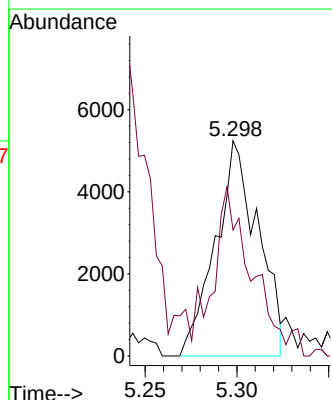
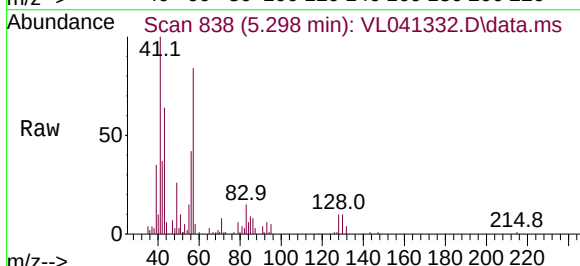
Acq: 5 Jun 2024 18:13

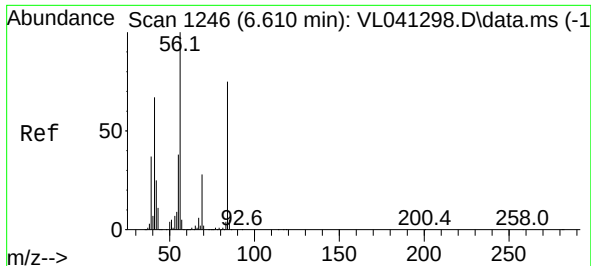
Tgt Ion: 83 Resp: 8474

Ion Ratio Lower Upper

83 100

85 46.3 53.3 79.9#





#30

Cyclohexane

Concen: 0.063 ppbv

RT: 6.629 min Scan# 1252

Delta R.T. 0.019 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_L

ClientSampleId :

OA1

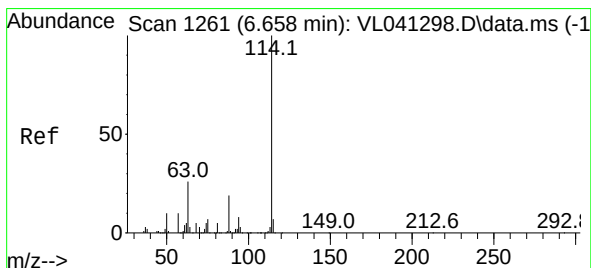
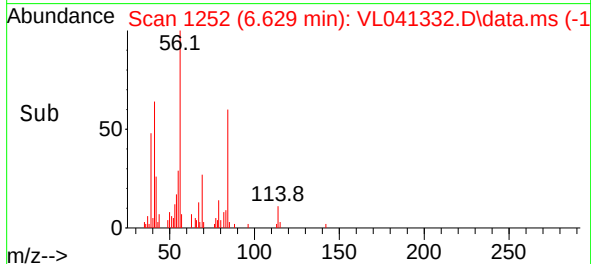
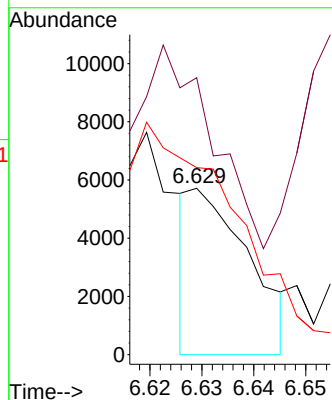
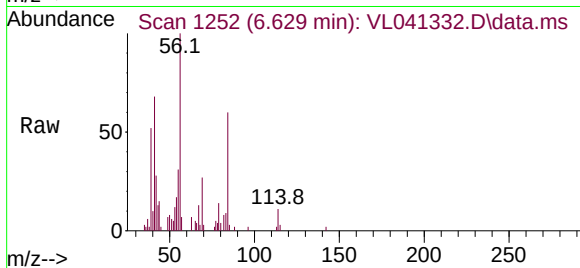
Tgt Ion: 84 Resp: 4497

Ion Ratio Lower Upper

84 100

56 0.0 114.9 172.3#

41 0.0 74.4 111.6#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 1266

Delta R.T. 0.016 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

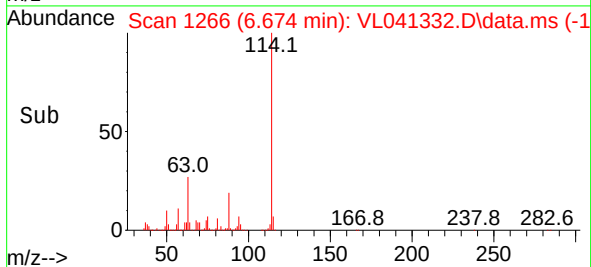
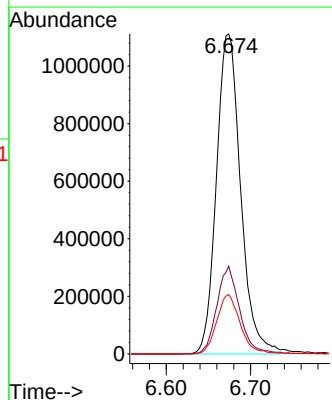
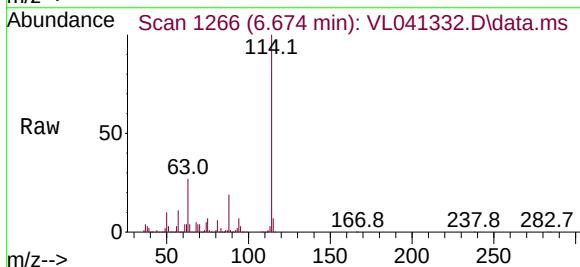
Tgt Ion: 114 Resp: 2214745

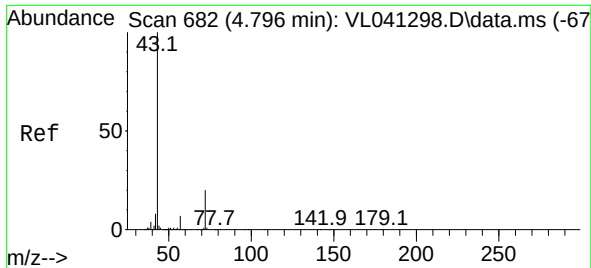
Ion Ratio Lower Upper

114 100

63 25.9 20.6 30.8

88 18.2 14.5 21.7

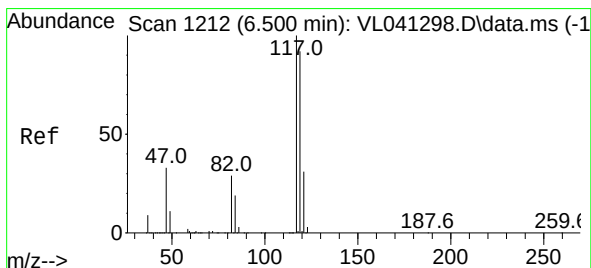
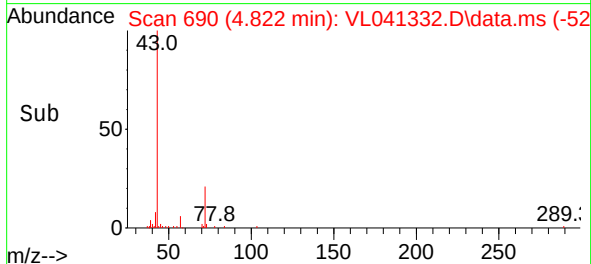
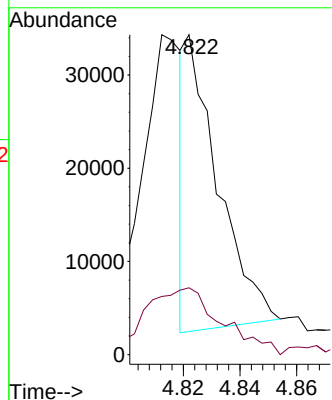
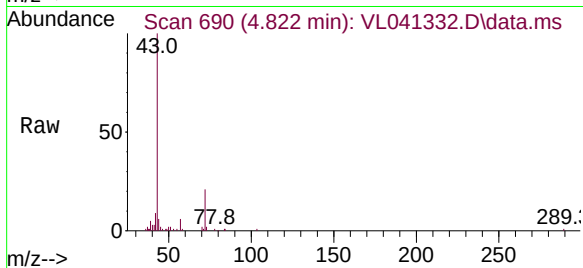




#34
2-Butanone
Concen: 0.240 ppbv
RT: 4.822 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL041332.D
Acq: 5 Jun 2024 18:13

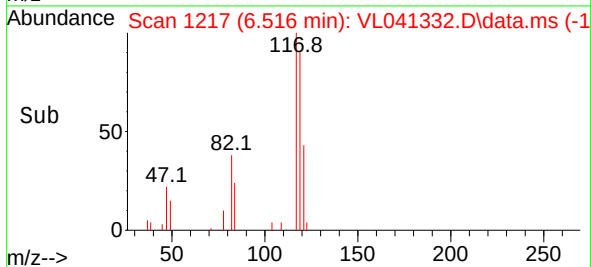
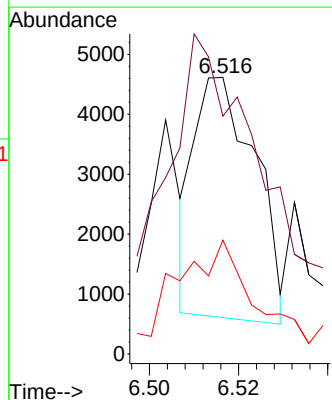
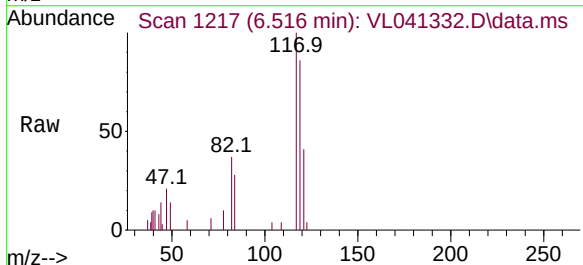
Instrument :
MSVOA_L
ClientSampleId :
OA1

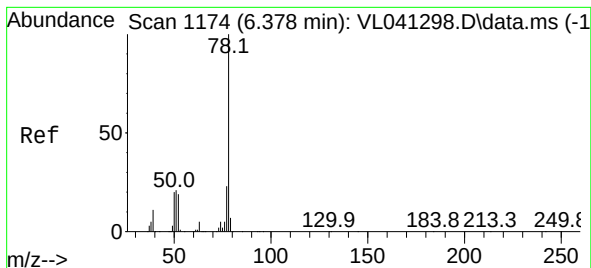
Tgt Ion: 43 Resp: 25485
Ion Ratio Lower Upper
43 100
72 57.9 17.4 26.0#



#35
Carbon Tetrachloride
Concen: 0.030 ppbv
RT: 6.516 min Scan# 1217
Delta R.T. 0.016 min
Lab File: VL041332.D
Acq: 5 Jun 2024 18:13

Tgt Ion: 117 Resp: 3812
Ion Ratio Lower Upper
117 100
119 32.6 74.0 111.0#
121 33.9 24.8 37.2





#36

Benzene

Concen: 0.488 ppbv

RT: 6.388 min Scan# 1174

Delta R.T. 0.010 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_L

ClientSampleId :

OA1

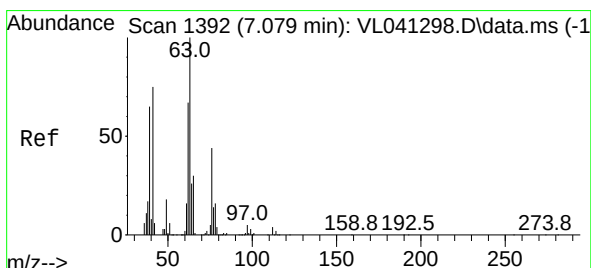
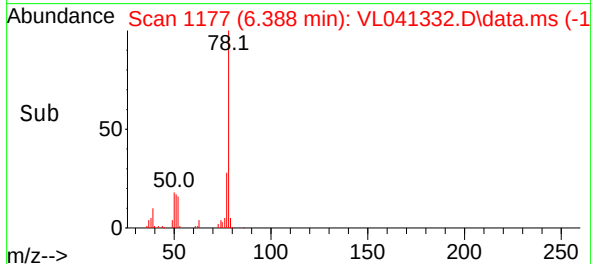
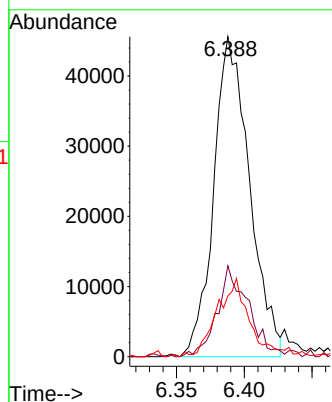
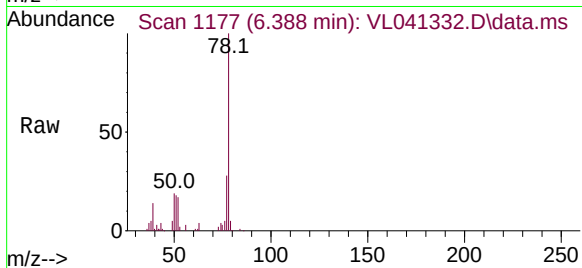
Tgt Ion: 78 Resp: 83747

Ion Ratio Lower Upper

78 100

77 28.4 18.6 28.0#

50 19.0 16.0 24.0



#39

1,2-Dichloropropane

Concen: 8.306 ppbv

RT: 6.674 min Scan# 1266

Delta R.T. -0.405 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

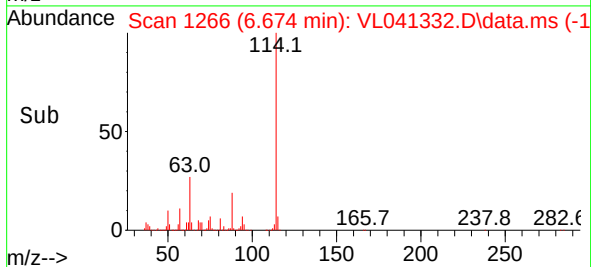
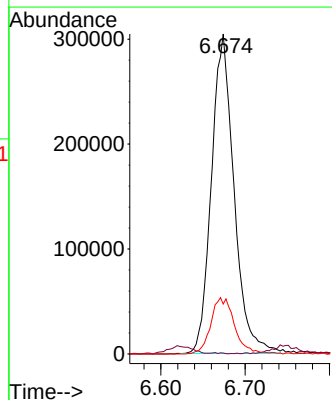
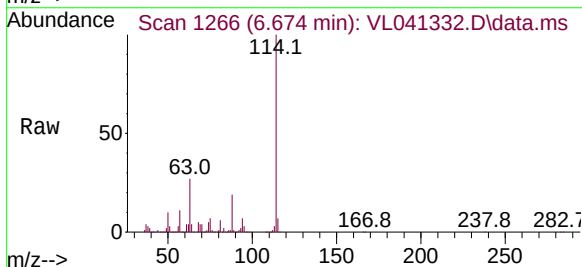
Tgt Ion: 63 Resp: 567739

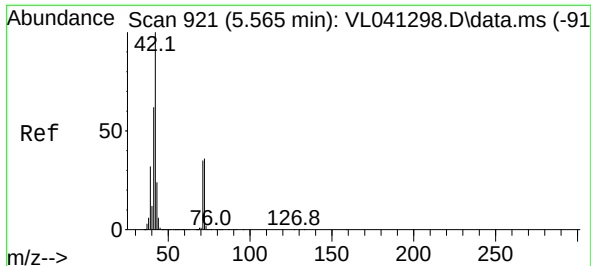
Ion Ratio Lower Upper

63 100

41 0.0 59.9 89.9#

62 15.5 53.8 80.6#





#41

Tetrahydrofuran

Concen: 16.760 ppbv

RT: 5.237 min Scan# 81

Delta R.T. -0.328 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

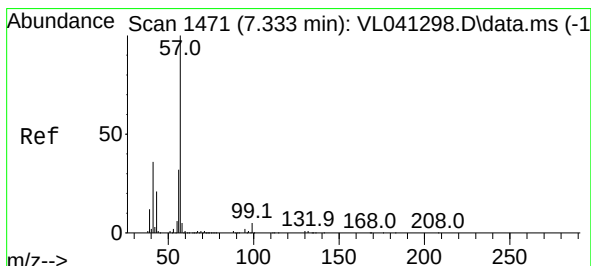
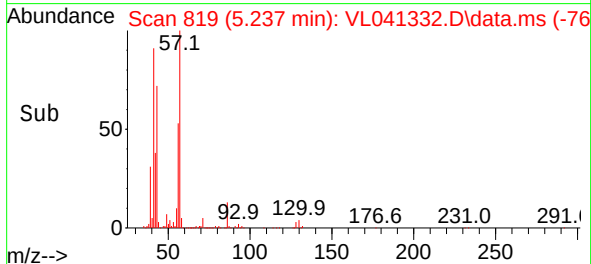
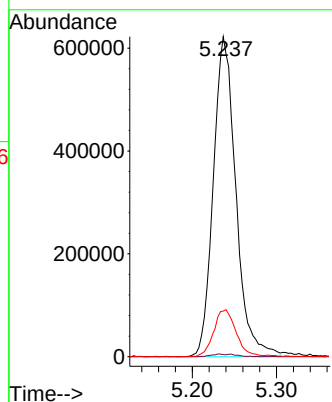
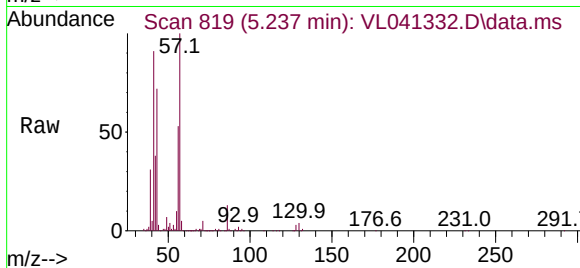
MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 42 Resp: 1157045

Ion	Ratio	Lower	Upper
42	100		
72	0.9	30.2	45.4#
71	14.8	30.3	45.5#



#44

2,2,4-Trimethylpentane

Concen: 0.453 ppbv

RT: 7.346 min Scan# 1475

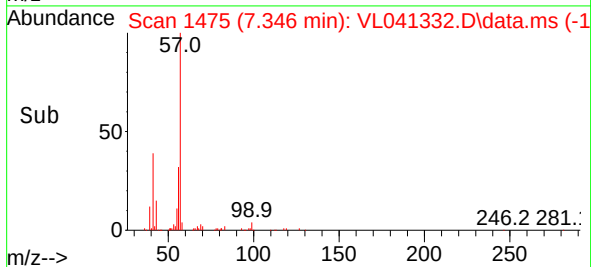
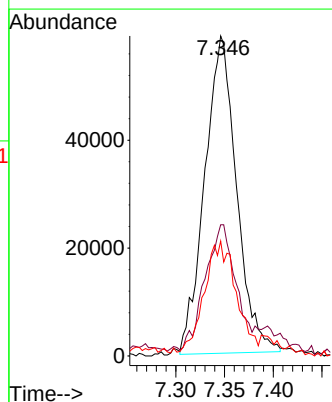
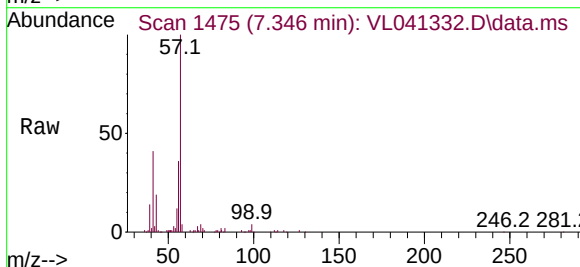
Delta R.T. 0.013 min

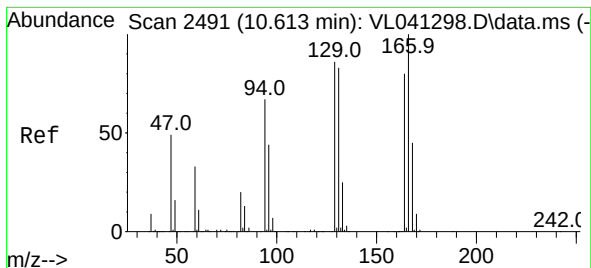
Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Tgt Ion: 57 Resp: 133693

Ion	Ratio	Lower	Upper
57	100		
41	48.9	29.4	44.2#
56	41.9	25.0	37.4#





#52

Tetrachloroethene

Concen: 0.031 ppbv

RT: 10.619 min Scan# 2491

Delta R.T. 0.006 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_1

ClientSampleId :

OA1

Tgt Ion:164 Resp: 1962

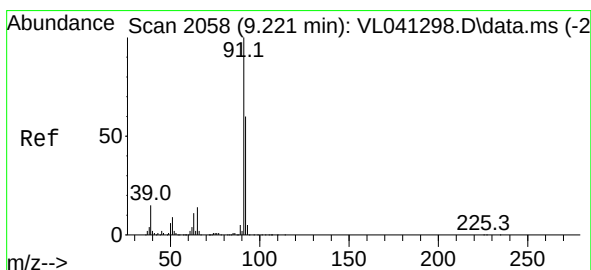
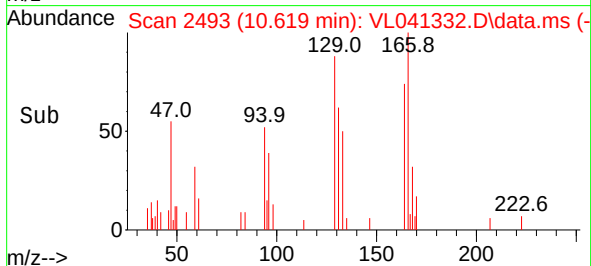
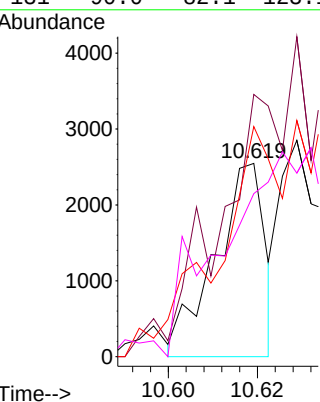
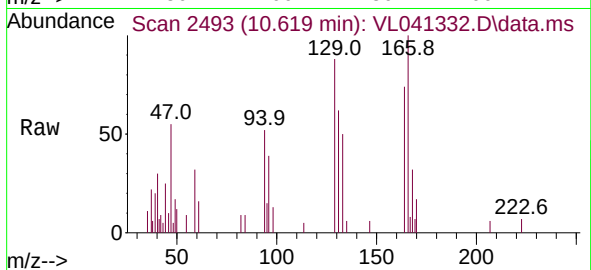
Ion Ratio Lower Upper

164 100

166 135.9 99.4 149.0

129 106.5 85.4 128.2

131 90.0 82.1 123.1



#53

Toluene

Concen: 1.221 ppbv

RT: 9.233 min Scan# 2062

Delta R.T. 0.013 min

Lab File: VL041332.D

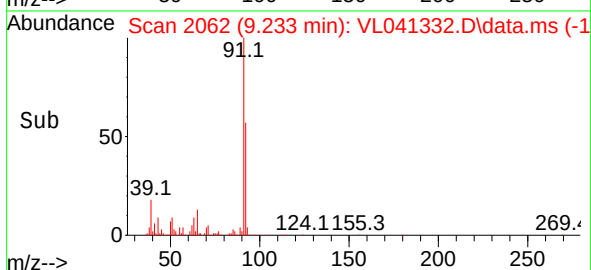
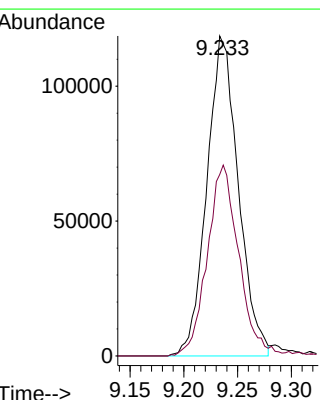
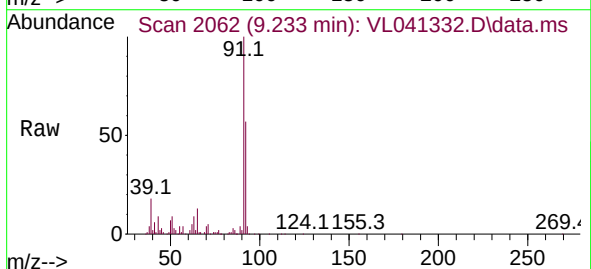
Acq: 5 Jun 2024 18:13

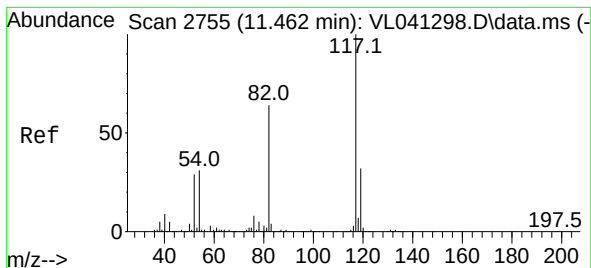
Tgt Ion: 91 Resp: 241103

Ion Ratio Lower Upper

91 100

92 60.8 49.2 73.8

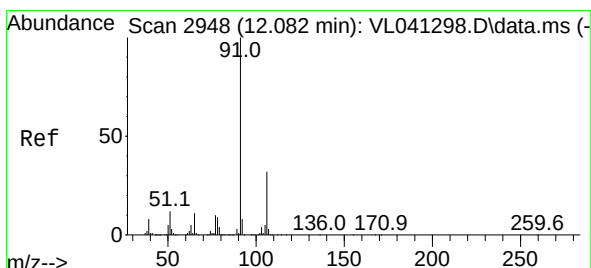
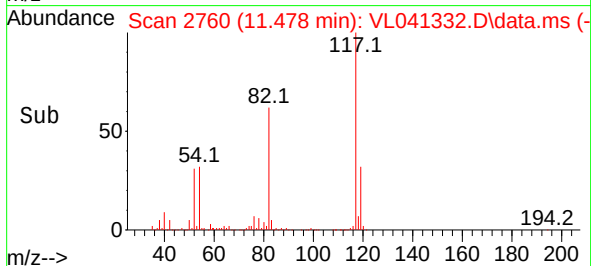
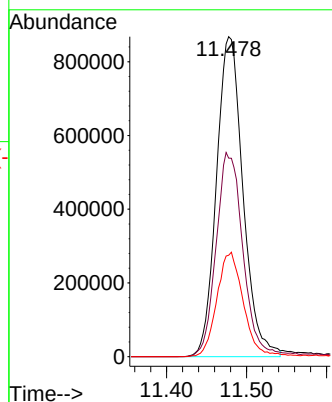
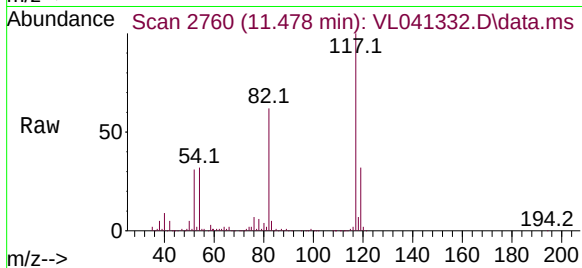




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL041332.D
Acq: 5 Jun 2024 18:13

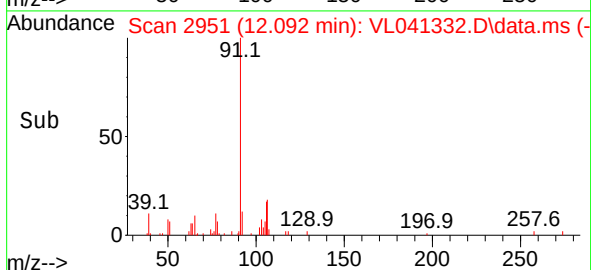
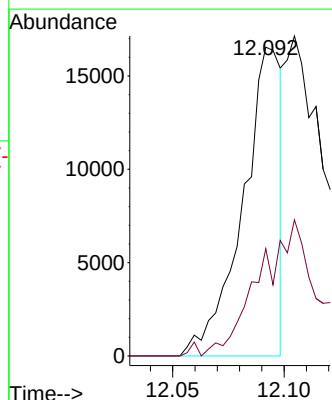
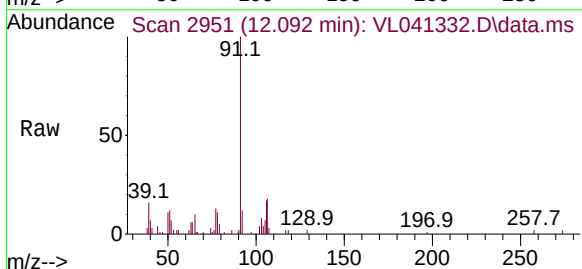
Instrument :
MSVOA_L
ClientSampleId :
OA1

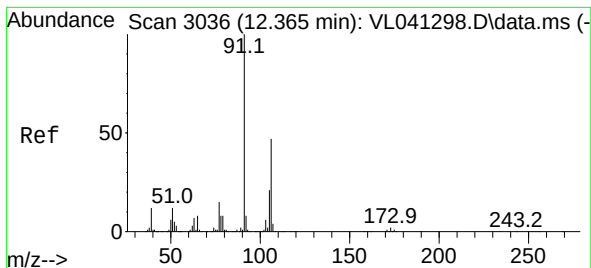
Tgt Ion:117 Resp: 1999811
Ion Ratio Lower Upper
117 100
82 66.5 52.3 78.5
119 32.7 26.2 39.2



#58
Ethyl Benzene
Concen: 0.077 ppbv
RT: 12.092 min Scan# 2951
Delta R.T. 0.010 min
Lab File: VL041332.D
Acq: 5 Jun 2024 18:13

Tgt Ion: 91 Resp: 19806
Ion Ratio Lower Upper
91 100
106 34.7 25.5 38.3





#59

m/p-Xylene

Concen: 0.205 ppbv

RT: 12.375 min Scan# 3036

Delta R.T. 0.010 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_L

ClientSampleId :

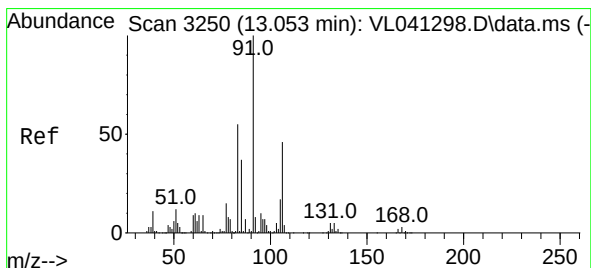
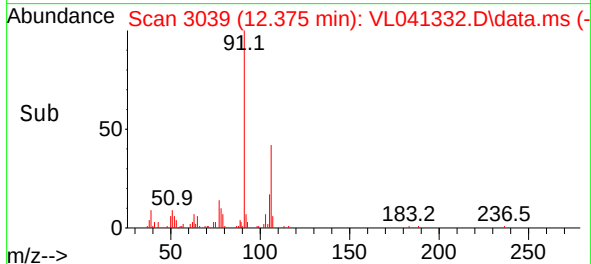
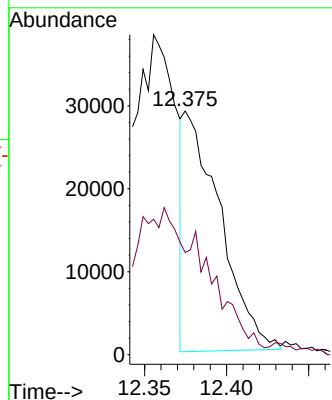
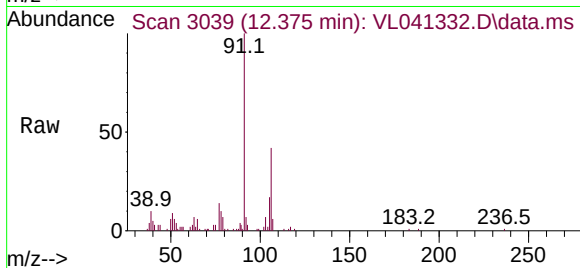
OA1

Tgt Ion: 91 Resp: 44944

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#



#60

o-Xylene

Concen: 0.215 ppbv

RT: 13.066 min Scan# 3254

Delta R.T. 0.013 min

Lab File: VL041332.D

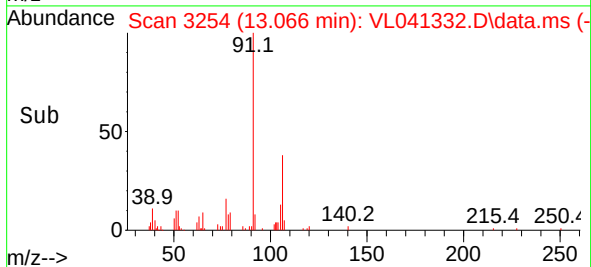
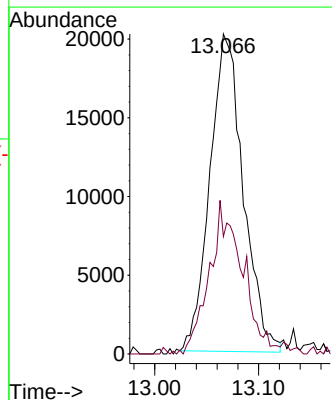
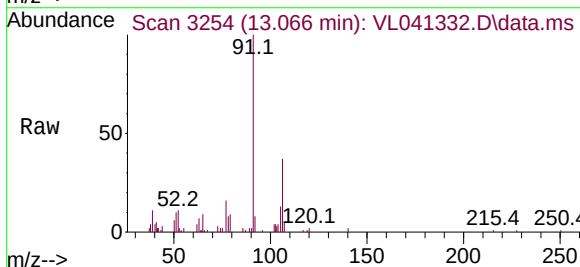
Acq: 5 Jun 2024 18:13

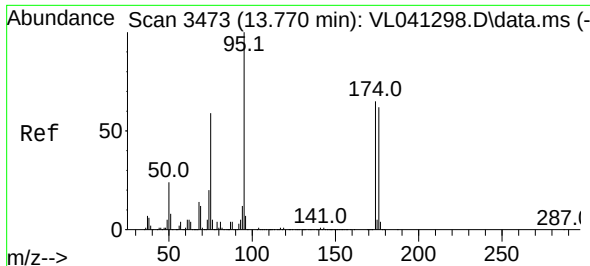
Tgt Ion: 91 Resp: 45012

Ion Ratio Lower Upper

91 100

106 49.6 22.8 68.4





#68

1-Bromo-4-Fluorobenzene

Concen: 9.838 ppbv

RT: 13.786 min Scan# 3473

Delta R.T. 0.016 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Instrument :

MSVOA_L

ClientSampleId :

OA1

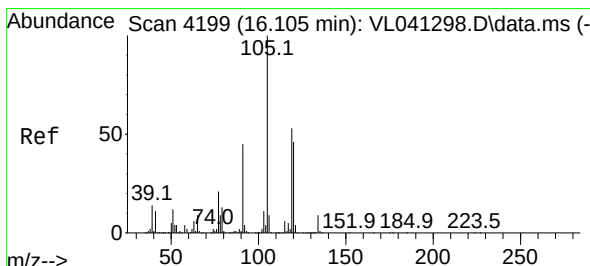
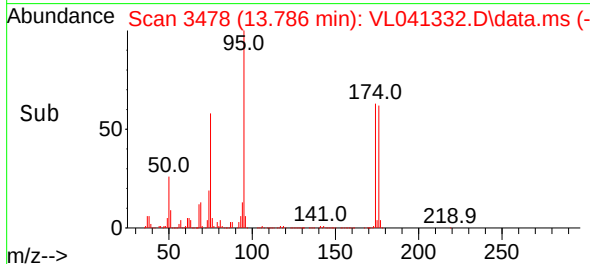
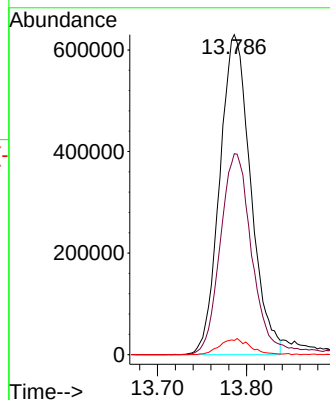
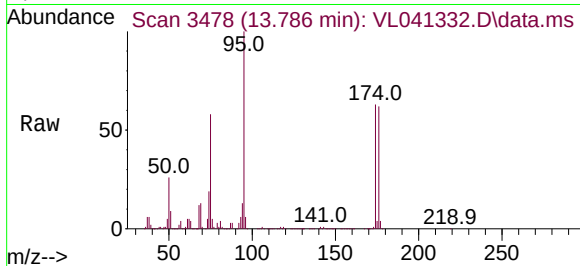
Tgt Ion: 95 Resp: 1518957

Ion Ratio Lower Upper

95 100

174 66.7 52.2 78.2

175 5.1 4.1 6.1



#74

1,2,4-Trimethylbenzene

Concen: 0.218 ppbv

RT: 16.124 min Scan# 4205

Delta R.T. 0.019 min

Lab File: VL041332.D

Acq: 5 Jun 2024 18:13

Tgt Ion:105 Resp: 52168

Ion Ratio Lower Upper

105 100

120 27.6 37.0 55.6#

91 12.0 36.2 54.4#

77 9.9 16.6 24.8#

