

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082124\
 Data File : VL041566.D
 Acq On : 21 Aug 2024 13:50
 Operator : SY/MD
 Sample : P3679-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

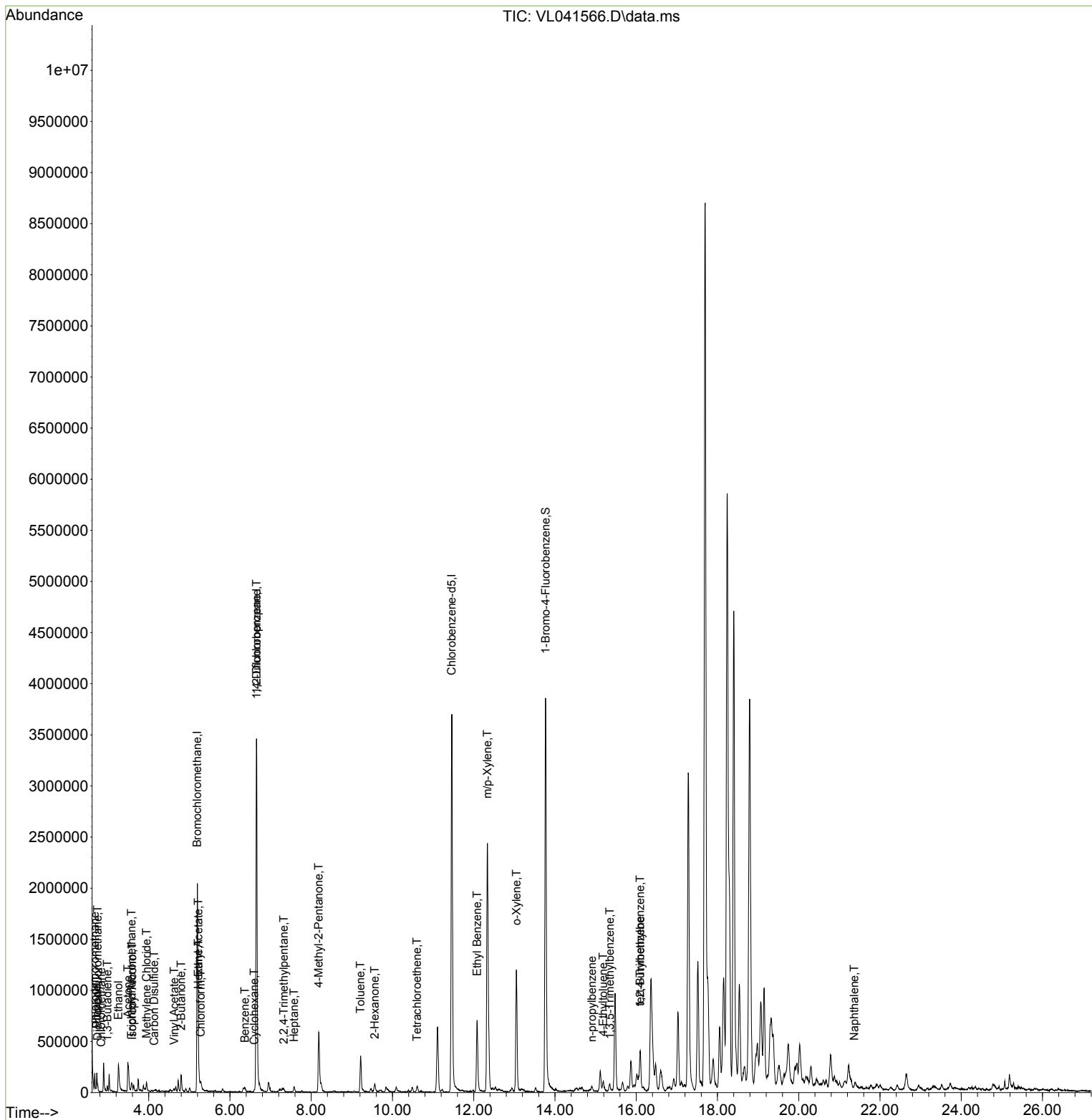
Quant Time: Aug 22 01:11:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 22 01:05:17 2024
 Response via : Initial Calibration

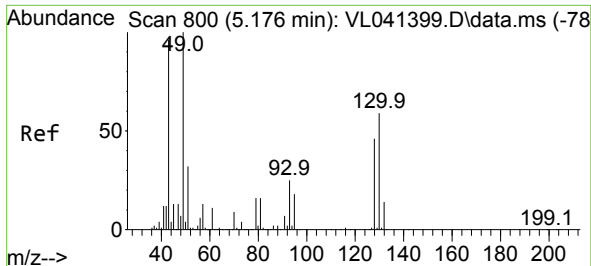
Compound			R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards								
1)	Bromochloromethane		5.195	49	1007322	10.000	ppbv	0.00
33)	1,4-Difluorobenzene		6.651	114	2700438	10.000	ppbv	0.00
55)	Chlorobenzene-d5		11.458	117	2470965	10.000	ppbv	# 0.00
System Monitoring Compounds								
68)	1-Bromo-4-Fluorobenzene		13.770	95	1911550	10.053	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	100.500%	
Target Compounds								
								Qvalue
2)	Dichlorodifluoromethane		2.745	85	29272	0.169	ppbv	# 84
3)	Chlorodifluoromethane		2.671	51	113444	0.946	ppbv	# 64
4)	Chloromethane		2.832	50	4826	0.076	ppbv	# 80
9)	Propene		2.722	41	40362	0.733	ppbv	# 74
10)	Heptane		7.577	43	22589	0.183	ppbv	94
11)	Trichlorofluoromethane		3.574	101	42355	0.275	ppbv	88
13)	Ethanol		3.256	45	331575	67.344	ppbv	93
15)	Acetone		3.488	43	310145	2.710	ppbv	# 89
16)	1,3-Butadiene		2.980	39	14620	0.239	ppbv	# 32
19)	Isopropyl Alcohol		3.594	45	47029	0.703	ppbv	# 81
20)	Methylene Chloride		3.947	84	27379	0.641	ppbv	89
23)	Vinyl Acetate		4.626	43	9452	0.108	ppbv	# 70
25)	Ethyl Acetate		5.221	43	68671	0.302	ppbv	# 83
26)	Hexane		5.224	57	32262	0.342	ppbv	# 17
27)	Carbon Disulfide		4.137	76	10037	0.091	ppbv	# 47
29)	Chloroform		5.278	83	18461	0.120	ppbv	91
30)	Cyclohexane		6.600	84	3334	0.043	ppbv	# 1
34)	2-Butanone		4.799	43	192362	1.473	ppbv	94
36)	Benzene		6.365	78	15573	0.079	ppbv	# 84
39)	1,2-Dichloropropane		6.655	63	674683	8.931	ppbv	# 25
44)	2,2,4-Trimethylpentane		7.323	57	9939	0.030	ppbv	# 1
50)	4-Methyl-2-Pentanone		8.185	43	529421	2.569	ppbv	99
51)	2-Hexanone		9.564	43	66867	0.429	ppbv	# 96
52)	Tetrachloroethene		10.606	164	7479	0.098	ppbv	93
53)	Toluene		9.214	91	273040	1.242	ppbv	100
58)	Ethyl Benzene		12.082	91	632080	2.219	ppbv	98
59)	m/p-Xylene		12.336	91	2204442	8.966	ppbv	96
60)	o-Xylene		13.053	91	939015	4.037	ppbv	100
64)	n-propylbenzene		14.912	120	4192	0.045	ppbv	# 1
65)	tert-Butylbenzene		16.098	119	35062	0.110	ppbv	# 58
72)	4-Ethyltoluene		15.188	105	49407	0.180	ppbv	# 55
73)	1,3,5-Trimethylbenzene		15.349	105	50786	0.215	ppbv	94
74)	1,2,4-Trimethylbenzene		16.095	105	284793	1.038	ppbv	# 70
79)	Naphthalene		21.368	128	7860	0.032	ppbv	# 84

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

Quant Time: Aug 22 01:11:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Aug 22 01:05:17 2024
Response via : Initial Calibration

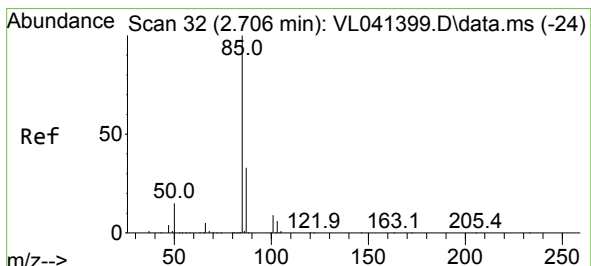
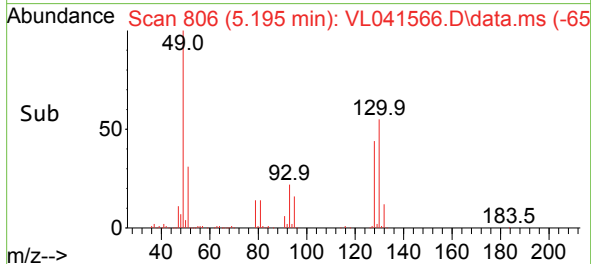
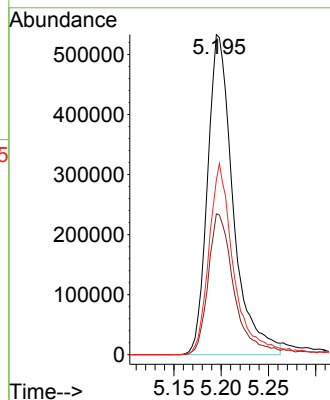
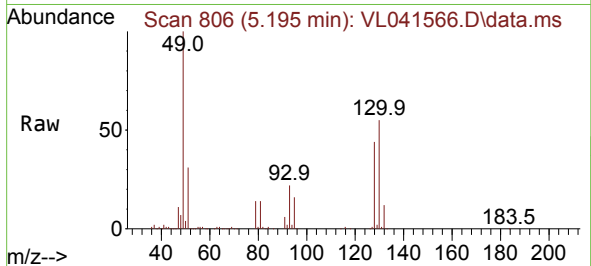




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.000 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

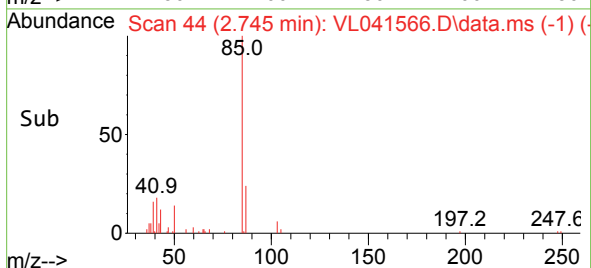
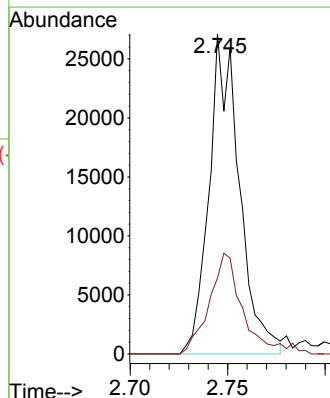
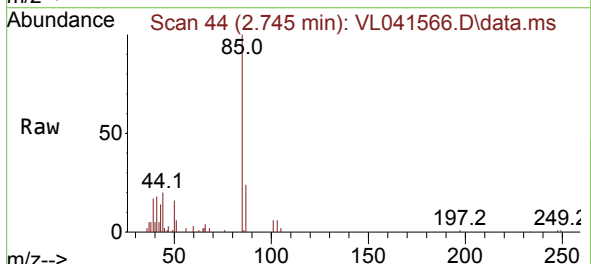
Instrument :
MSVOA_L
ClientSampleId :

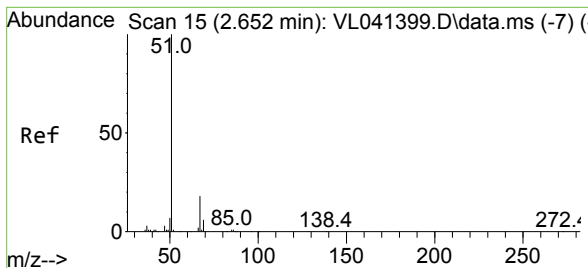
Tgt Ion: 49 Resp: 1007322
Ion Ratio Lower Upper
49 100
128 46.6 23.8 71.4
130 59.1 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.169 ppbv
RT: 2.745 min Scan# 44
Delta R.T. 0.003 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

Tgt Ion: 85 Resp: 29272
Ion Ratio Lower Upper
85 100
87 23.7 26.0 39.0#





#3

Chlorodifluoromethane

Concen: 0.946 ppbv

RT: 2.671 min Scan# 21

Delta R.T. -0.016 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Instrument :

MSVOA_L

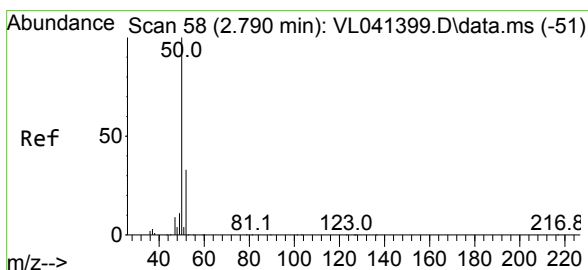
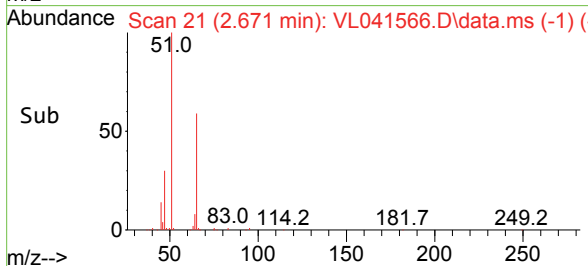
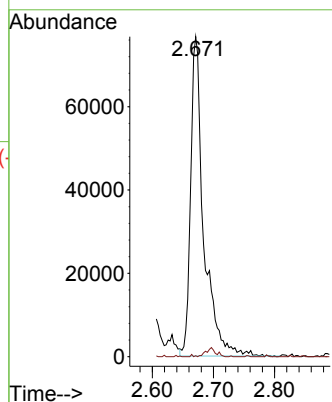
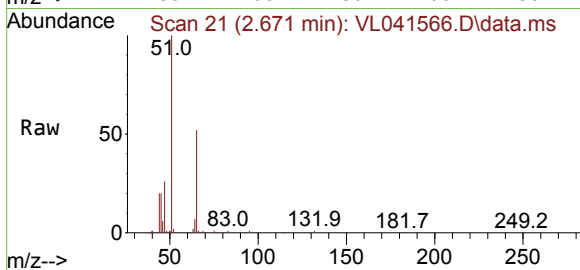
ClientSampleId :

Tgt Ion: 51 Resp: 113444

Ion Ratio Lower Upper

51 100

67 2.3 14.5 21.7#



#4

Chloromethane

Concen: 0.076 ppbv

RT: 2.832 min Scan# 71

Delta R.T. 0.006 min

Lab File: VL041566.D

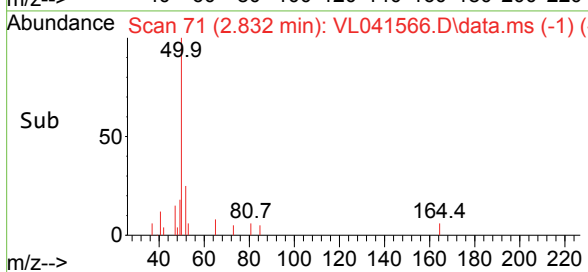
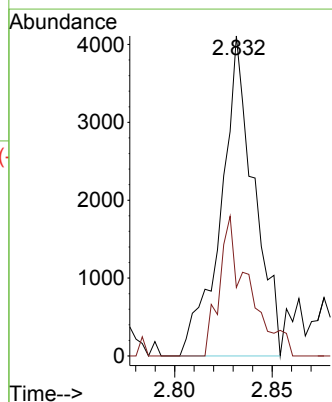
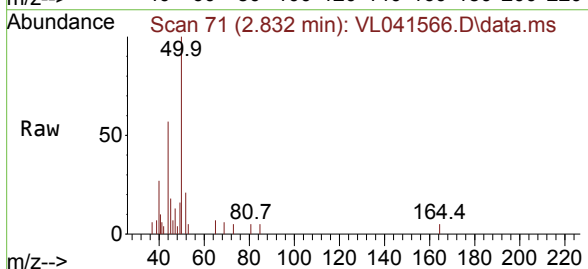
Acq: 21 Aug 2024 13:50

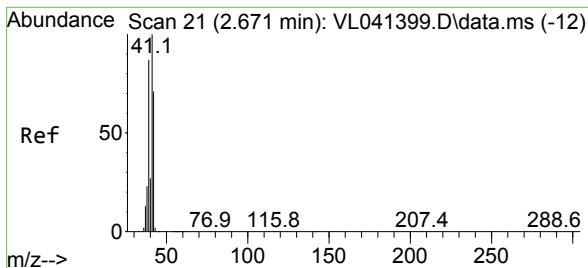
Tgt Ion: 50 Resp: 4826

Ion Ratio Lower Upper

50 100

52 21.4 26.1 39.1#





#9

Propene

Concen: 0.733 ppbv

RT: 2.722 min Scan# 31

Delta R.T. 0.016 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Instrument :

MSVOA_L

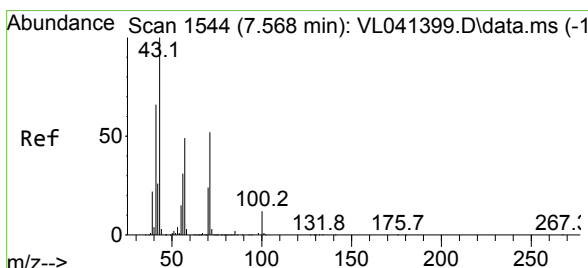
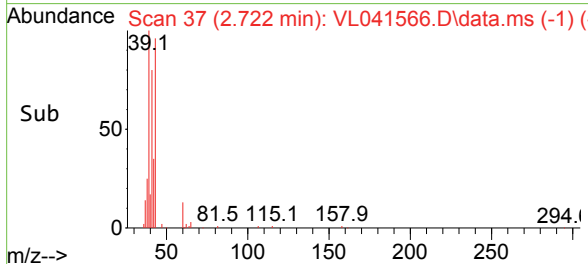
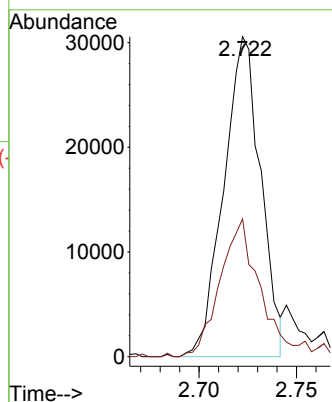
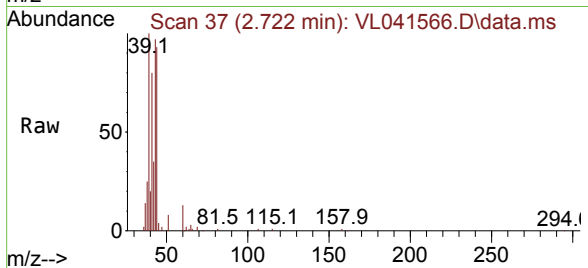
ClientSampleId :

Tgt Ion: 41 Resp: 40362

Ion Ratio Lower Upper

41 100

42 48.9 55.9 83.9#



#10

Heptane

Concen: 0.183 ppbv

RT: 7.577 min Scan# 1547

Delta R.T. -0.003 min

Lab File: VL041566.D

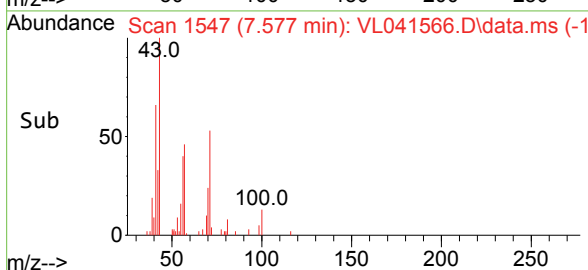
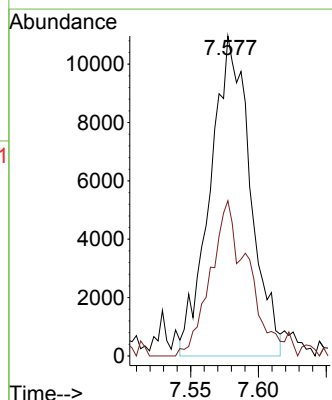
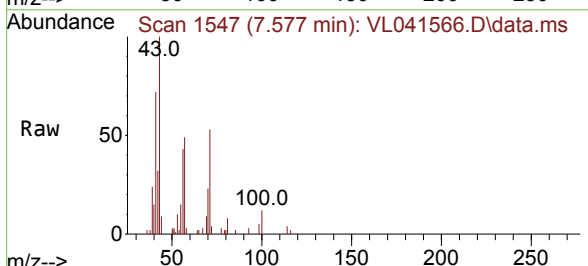
Acq: 21 Aug 2024 13:50

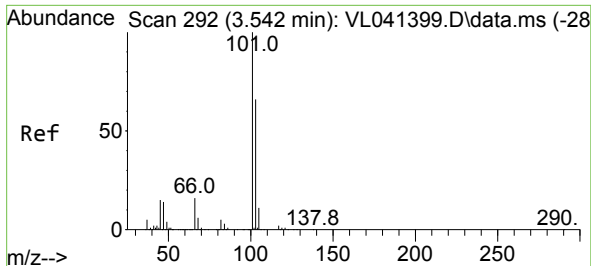
Tgt Ion: 43 Resp: 22589

Ion Ratio Lower Upper

43 100

57 46.5 40.5 60.7

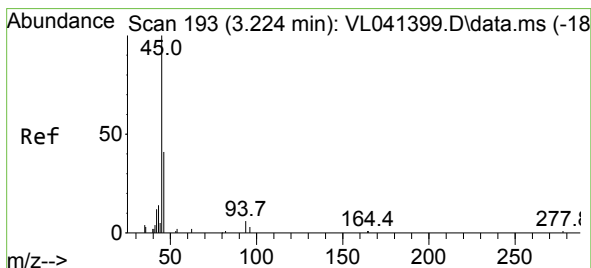
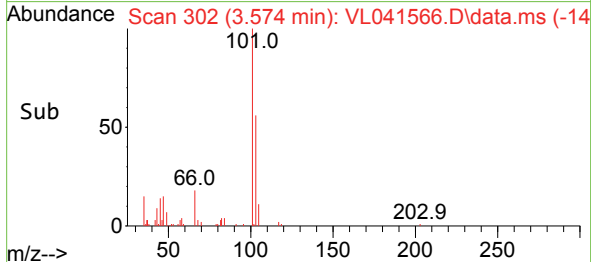
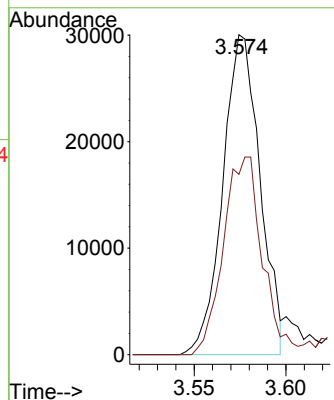
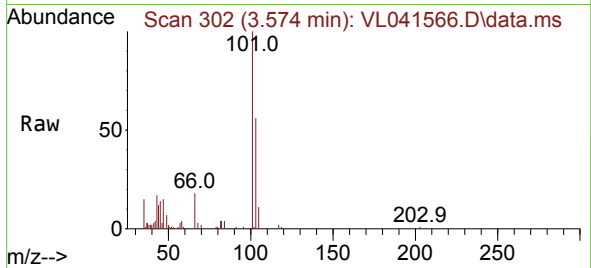




#11
Trichlorofluoromethane
Concen: 0.275 ppbv
RT: 3.574 min Scan# 302
Delta R.T. 0.003 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

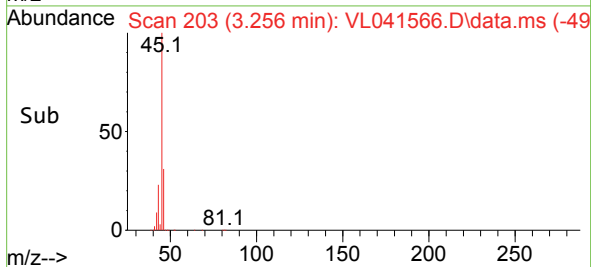
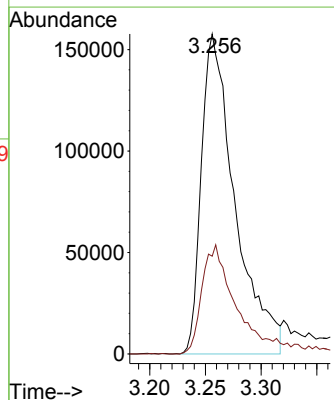
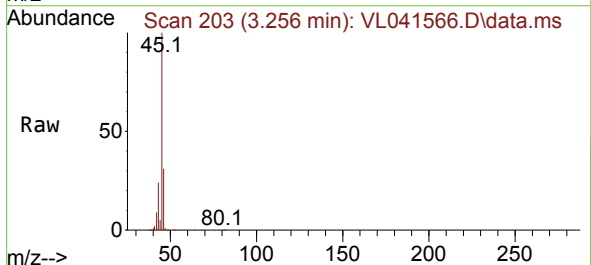
Instrument :
MSVOA_L
ClientSampleId :

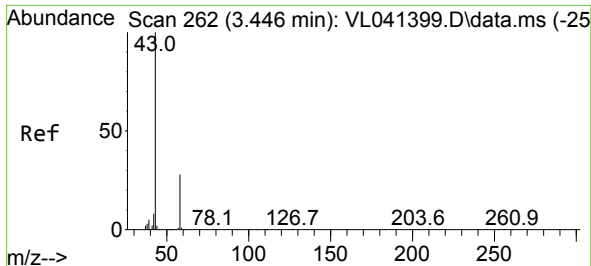
Tgt Ion:101 Resp: 42355
Ion Ratio Lower Upper
101 100
103 56.4 52.6 79.0



#13
Ethanol
Concen: 67.344 ppbv
RT: 3.256 min Scan# 203
Delta R.T. -0.003 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

Tgt Ion: 45 Resp: 331575
Ion Ratio Lower Upper
45 100
46 37.6 13.4 53.4

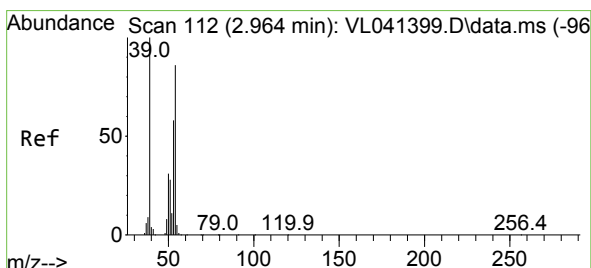
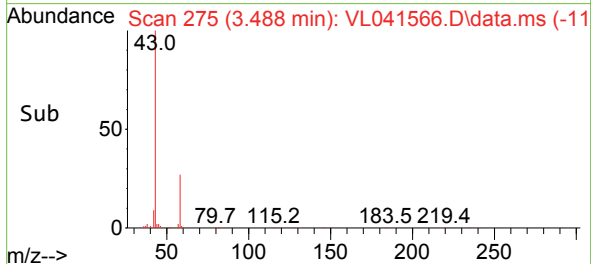
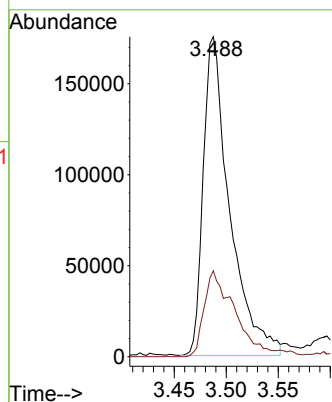
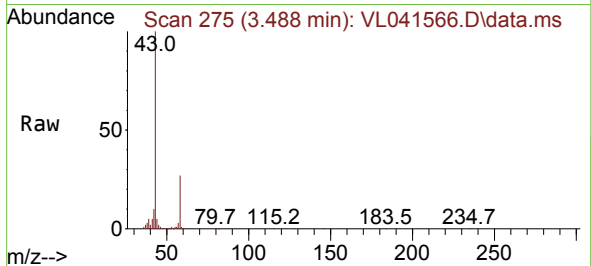




#15
Acetone
Concen: 2.710 ppbv
RT: 3.488 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

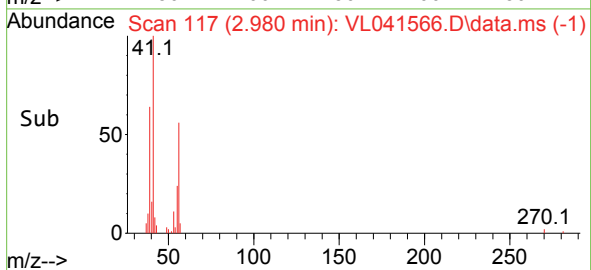
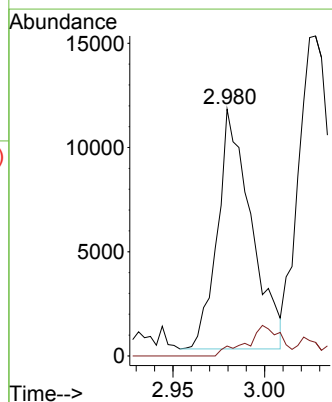
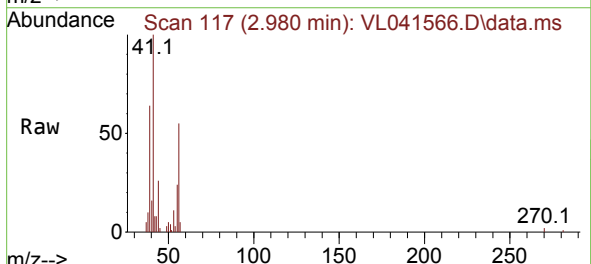
Instrument :
MSVOA_L
ClientSampleId :

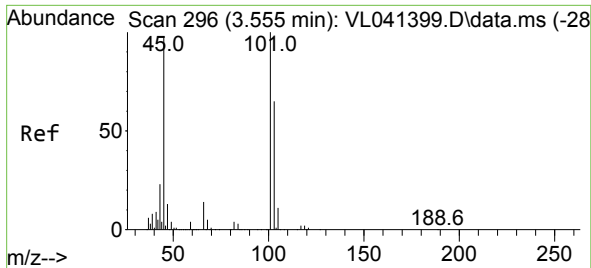
Tgt Ion: 43 Resp: 310145
Ion Ratio Lower Upper
43 100
58 32.4 21.4 32.2#



#16
1,3-Butadiene
Concen: 0.239 ppbv
RT: 2.980 min Scan# 117
Delta R.T. -0.016 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

Tgt Ion: 39 Resp: 14620
Ion Ratio Lower Upper
39 100
54 18.8 62.5 93.7#





#19

Isopropyl Alcohol

Concen: 0.703 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.010 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Instrument :

MSVOA_L

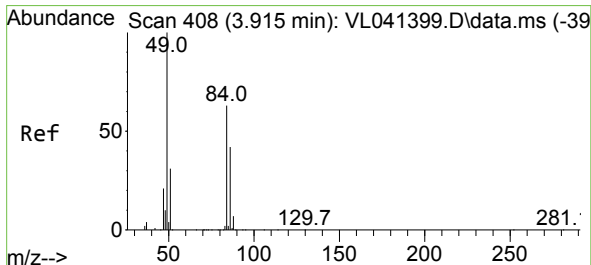
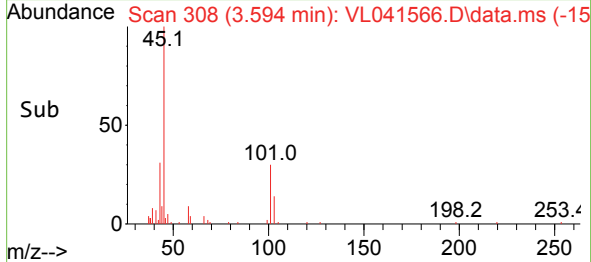
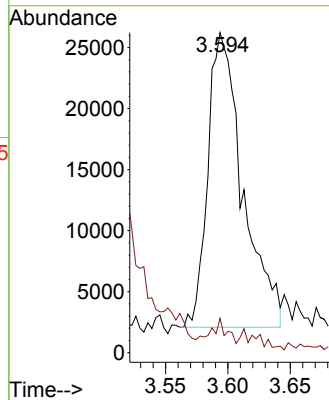
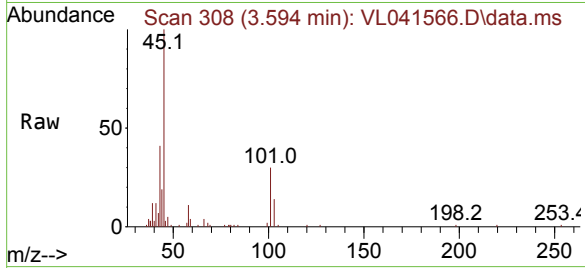
ClientSampleId :

Tgt Ion: 45 Resp: 47029

Ion Ratio Lower Upper

45 100

58 9.0 1.9 2.9#



#20

Methylene Chloride

Concen: 0.641 ppbv

RT: 3.947 min Scan# 418

Delta R.T. 0.006 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Tgt Ion: 84 Resp: 27379

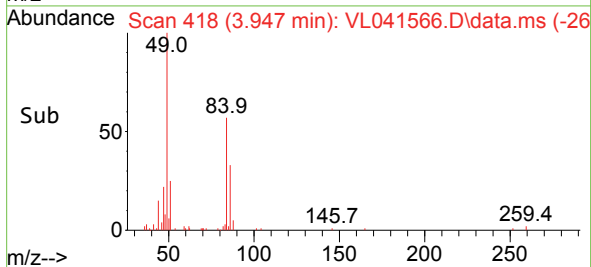
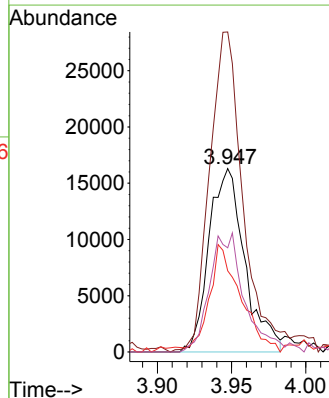
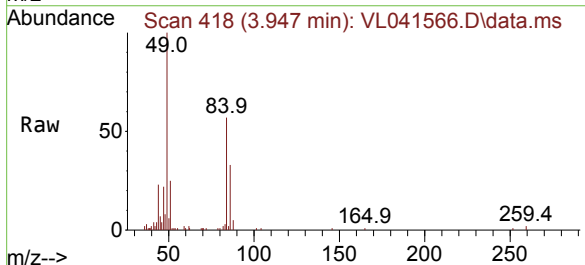
Ion Ratio Lower Upper

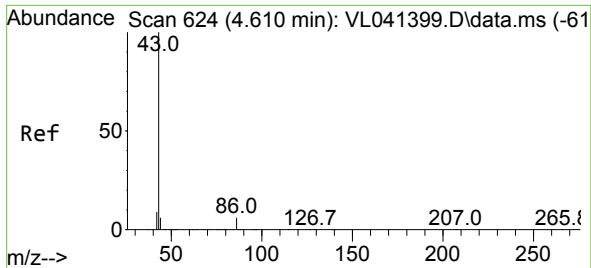
84 100

49 173.2 126.6 190.0

51 44.2 38.6 58.0

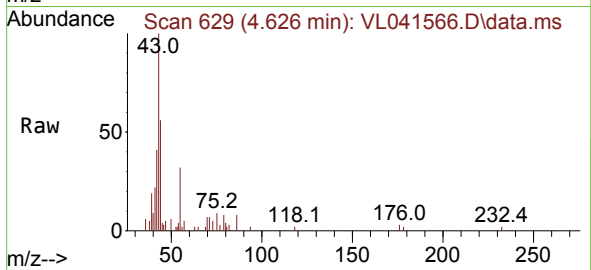
86 56.8 53.0 79.4



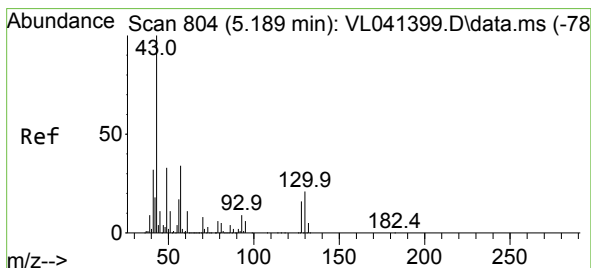
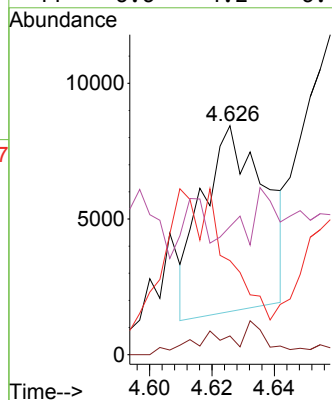


#23
Vinyl Acetate
Concen: 0.108 ppbv
RT: 4.626 min Scan# 61
Delta R.T. -0.007 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

Instrument :
MSVOA_L
ClientSampleId :

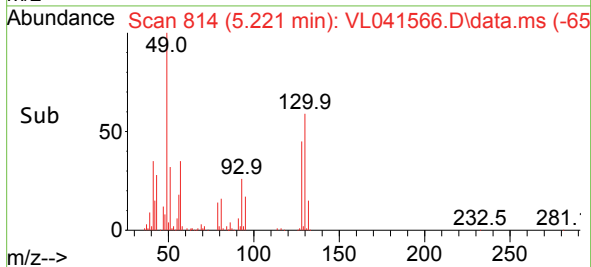
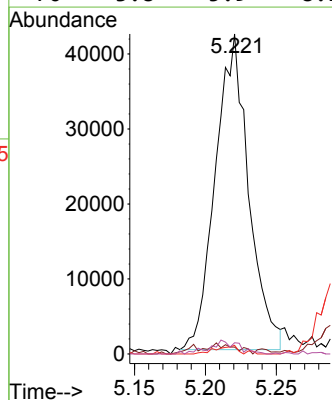
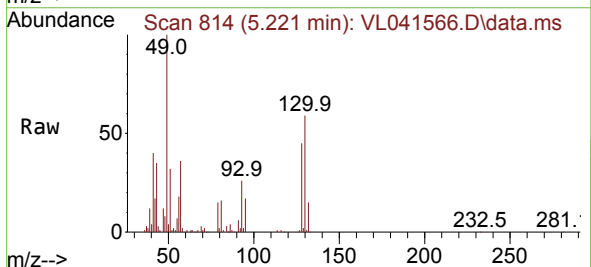


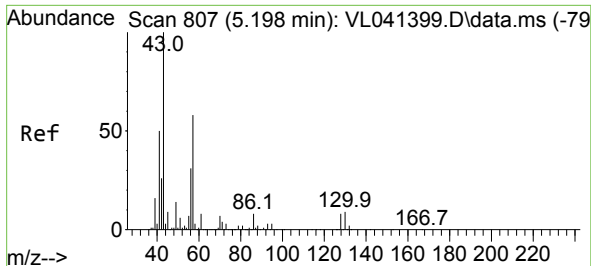
Tgt Ion:	43	Resp:	9452
Ion	Ratio	Lower	Upper
43	100		
86	7.2	4.6	6.8#
42	31.5	7.9	11.9#
44	6.6	4.2	6.4#



#25
Ethyl Acetate
Concen: 0.302 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.013 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

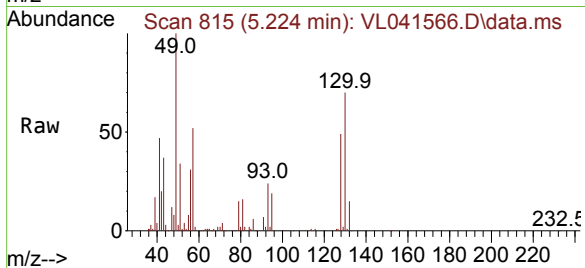
Tgt Ion:	43	Resp:	68671
Ion	Ratio	Lower	Upper
43	100		
45	4.3	8.5	12.7#
61	1.9	8.0	12.0#
70	3.8	5.9	8.9#



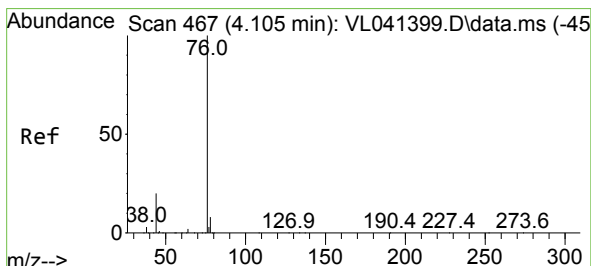
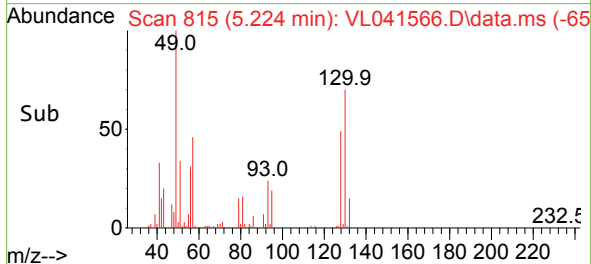
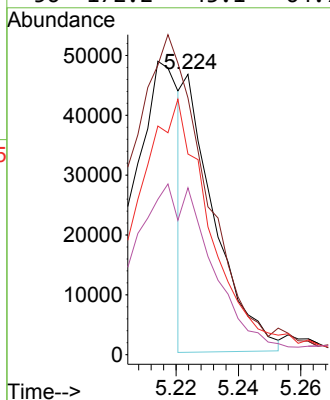


#26
Hexane
Concen: 0.342 ppbv
RT: 5.224 min Scan# 815
Delta R.T. 0.006 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

Instrument :
MSVOA_L
ClientSampleId :

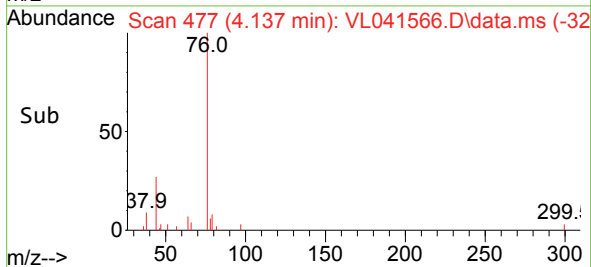
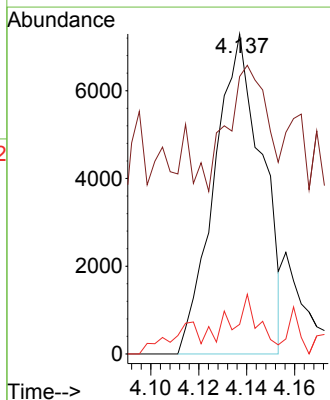
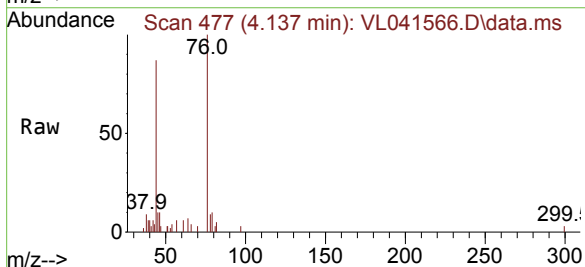


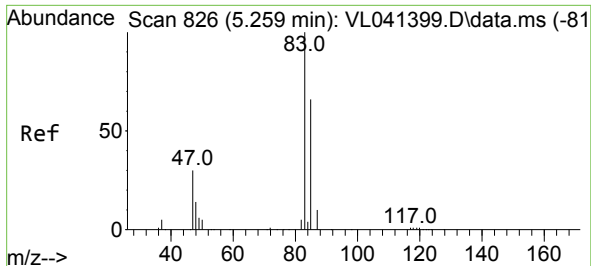
Tgt Ion: 57 Resp: 32262
Ion Ratio Lower Upper
57 100
41 317.1 74.0 111.0#
43 229.9 193.6 290.4
56 172.2 43.1 64.7#



#27
Carbon Disulfide
Concen: 0.091 ppbv
RT: 4.137 min Scan# 477
Delta R.T. 0.006 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

Tgt Ion: 76 Resp: 10037
Ion Ratio Lower Upper
76 100
44 46.5 15.6 23.4#
78 24.3 7.7 11.5#





#29

Chloroform

Concen: 0.120 ppbv

RT: 5.278 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Instrument :

MSVOA_L

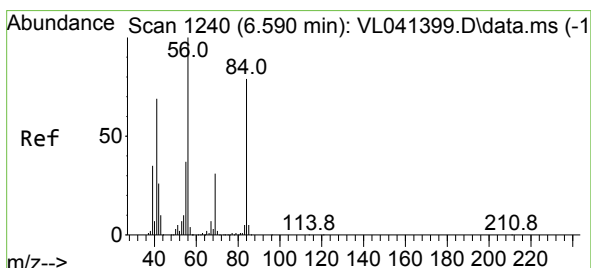
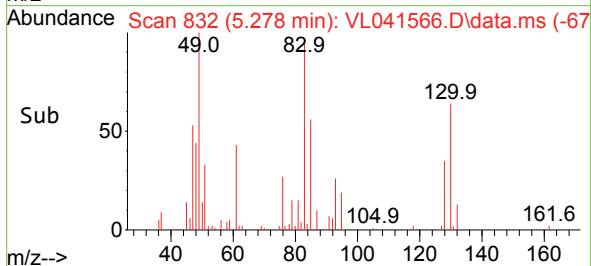
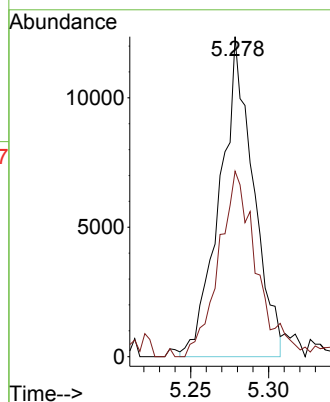
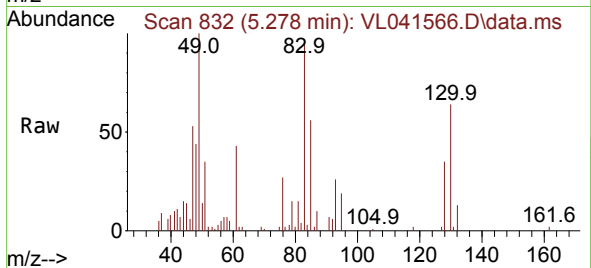
ClientSampleId :

Tgt Ion: 83 Resp: 18461

Ion Ratio Lower Upper

83 100

85 58.8 53.1 79.7



#30

Cyclohexane

Concen: 0.043 ppbv

RT: 6.600 min Scan# 1243

Delta R.T. -0.003 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

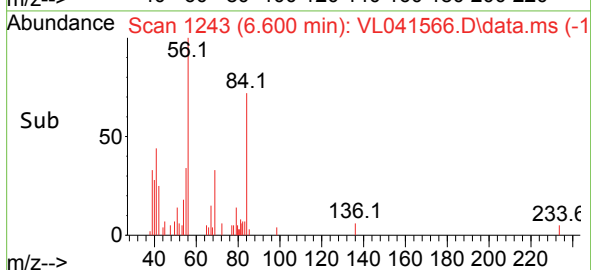
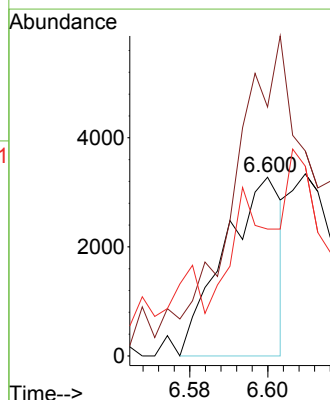
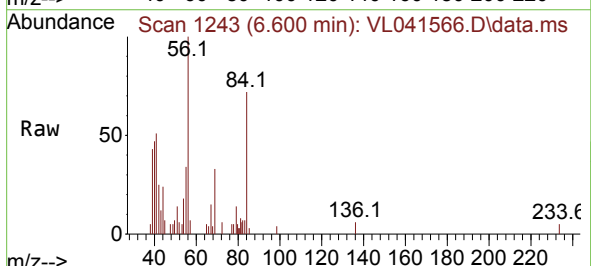
Tgt Ion: 84 Resp: 3334

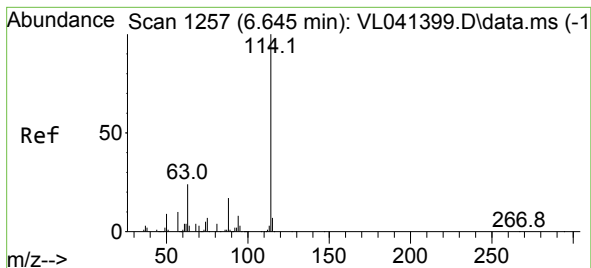
Ion Ratio Lower Upper

84 100

56 0.0 111.2 166.8#

41 0.0 70.3 105.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.651 min Scan# 114

Delta R.T. -0.003 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Instrument :

MSVOA_L

ClientSampleId :

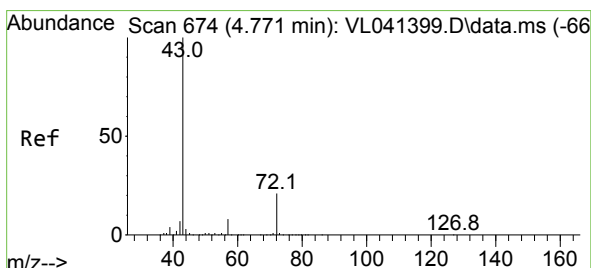
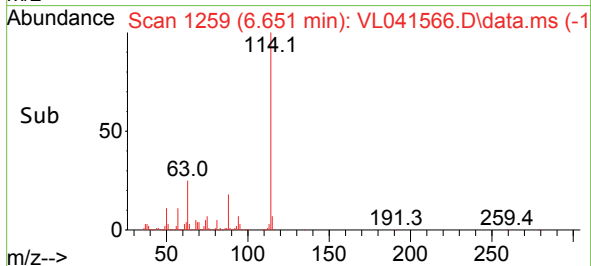
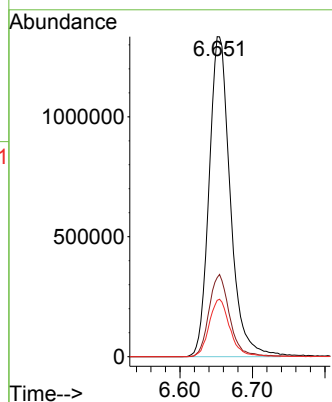
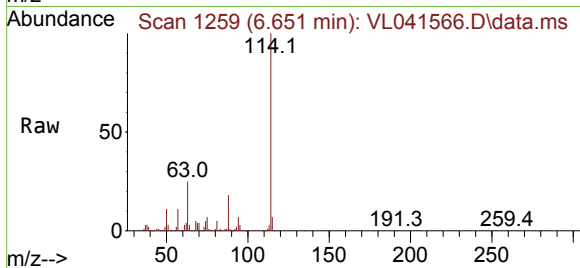
Tgt Ion:114 Resp: 2700438

Ion Ratio Lower Upper

114 100

63 25.2 20.3 30.5

88 17.8 14.3 21.5



#34

2-Butanone

Concen: 1.473 ppbv

RT: 4.799 min Scan# 683

Delta R.T. 0.006 min

Lab File: VL041566.D

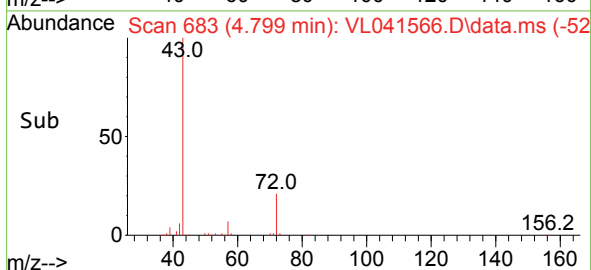
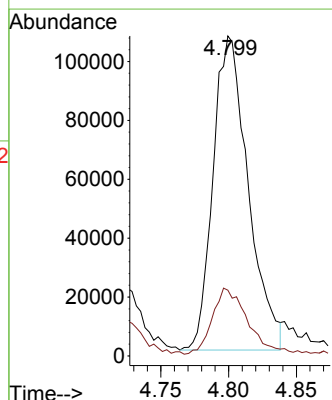
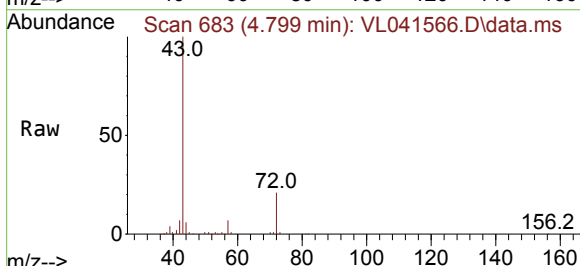
Acq: 21 Aug 2024 13:50

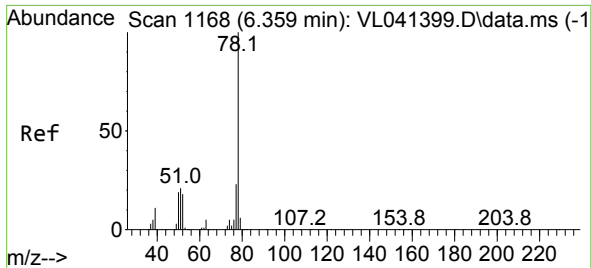
Tgt Ion: 43 Resp: 192362

Ion Ratio Lower Upper

43 100

72 24.4 17.3 25.9

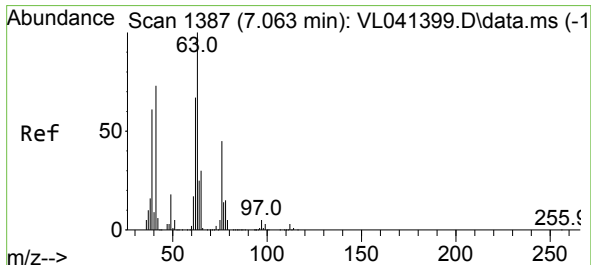
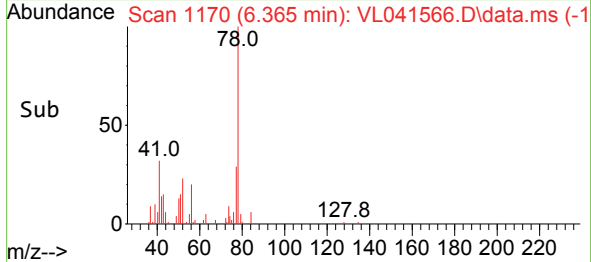
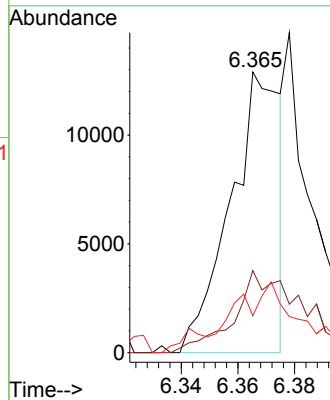
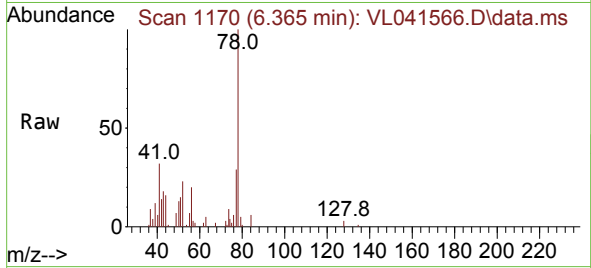




#36
Benzene
Concen: 0.079 ppbv
RT: 6.365 min Scan# 1168
Delta R.T. -0.007 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

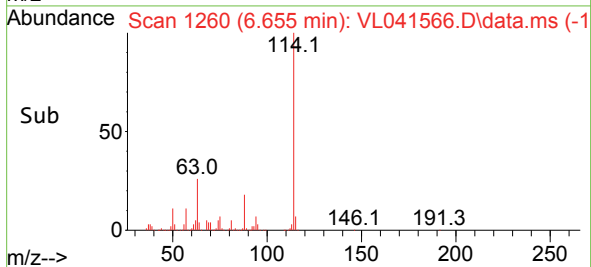
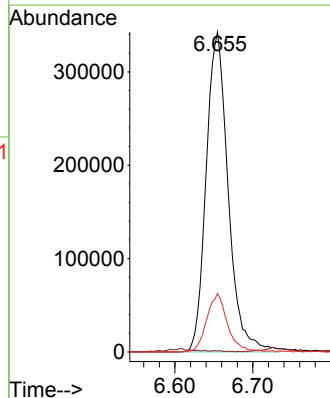
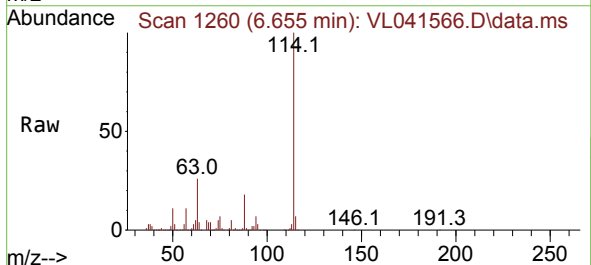
Instrument :
MSVOA_L
ClientSampleId :

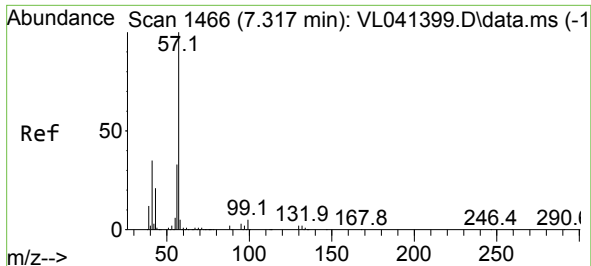
Tgt Ion: 78 Resp: 15573
Ion Ratio Lower Upper
78 100
77 28.0 18.1 27.1#
50 10.0 15.5 23.3#



#39
1,2-Dichloropropane
Concen: 8.931 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.421 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

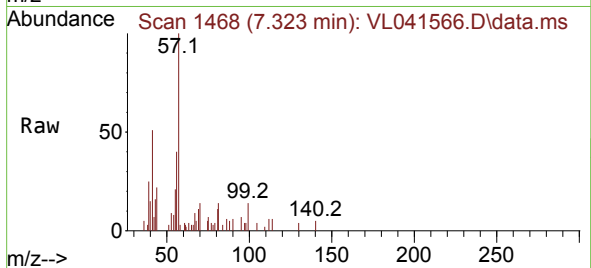
Tgt Ion: 63 Resp: 674683
Ion Ratio Lower Upper
63 100
41 0.0 58.3 87.5#
62 18.3 53.9 80.9#



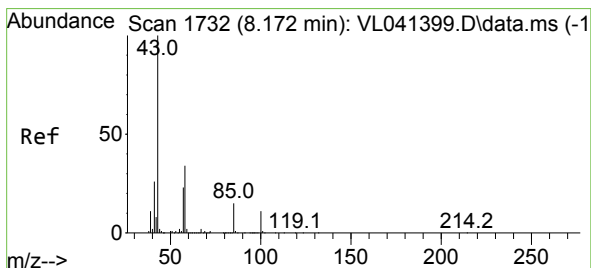
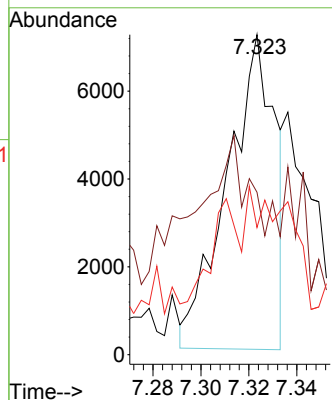
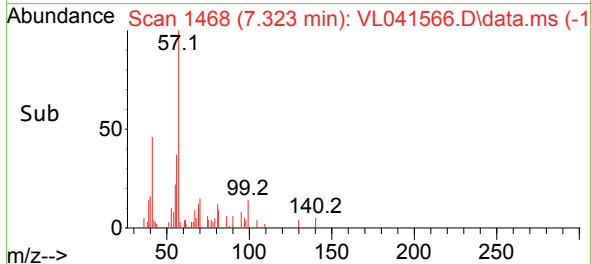


#44
2,2,4-Trimethylpentane
Concen: 0.030 ppbv
RT: 7.323 min Scan# 1468
Delta R.T. -0.003 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

Instrument :
MSVOA_L
ClientSampleId :

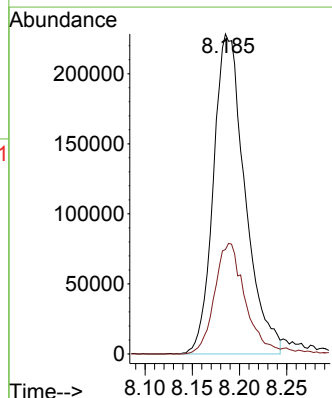
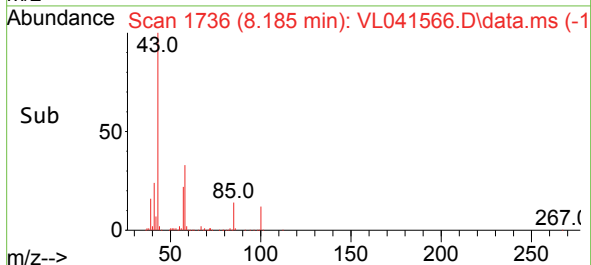
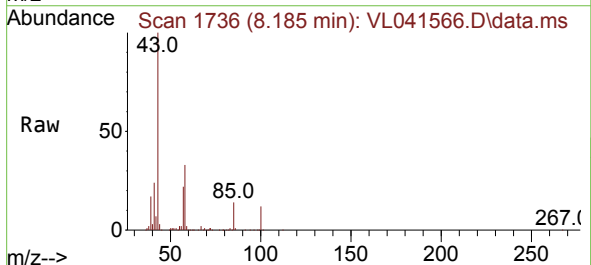


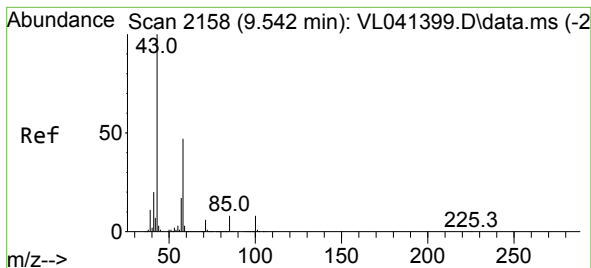
Tgt Ion: 57 Resp: 9939
Ion Ratio Lower Upper
57 100
41 193.8 27.0 40.6#
56 109.6 25.2 37.8#



#50
4-Methyl-2-Pentanone
Concen: 2.569 ppbv
RT: 8.185 min Scan# 1736
Delta R.T. 0.003 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

Tgt Ion: 43 Resp: 529421
Ion Ratio Lower Upper
43 100
58 34.5 27.9 41.9





#51

2-Hexanone

Concen: 0.429 ppbv

RT: 9.564 min Scan# 2158

Delta R.T. 0.013 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Instrument :

MSVOA_L

ClientSampleId :

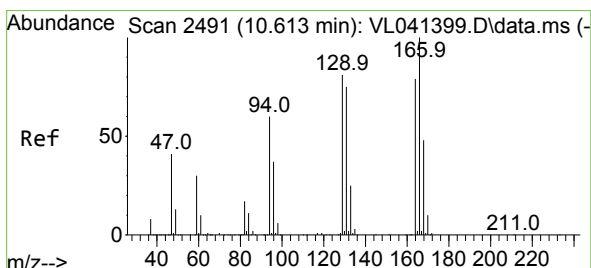
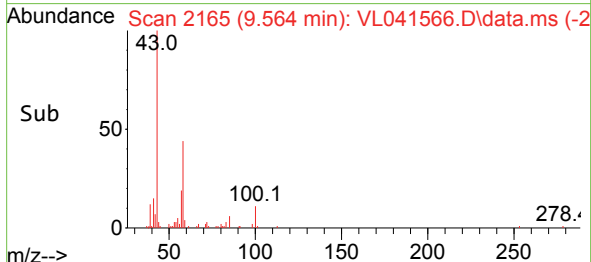
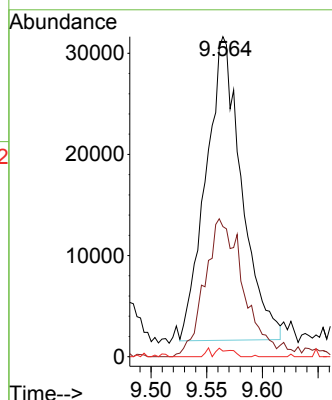
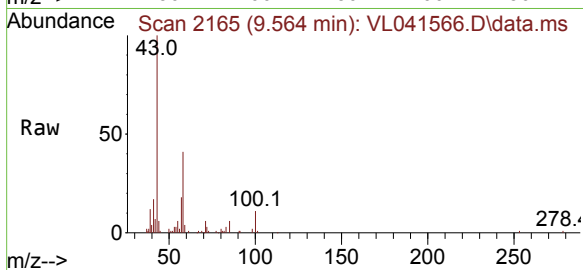
Tgt Ion: 43 Resp: 66867

Ion Ratio Lower Upper

43 100

58 50.3 38.2 57.2

98 1.5 0.3 0.5



#52

Tetrachloroethene

Concen: 0.098 ppbv

RT: 10.606 min Scan# 2489

Delta R.T. -0.010 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Tgt Ion: 164 Resp: 7479

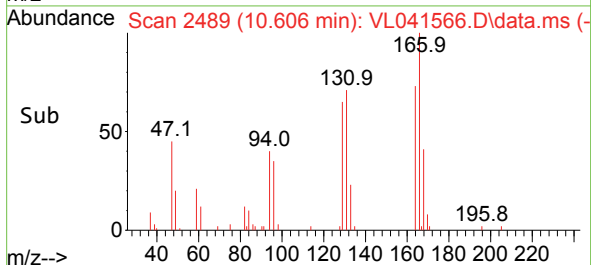
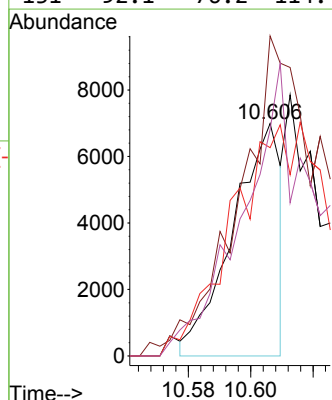
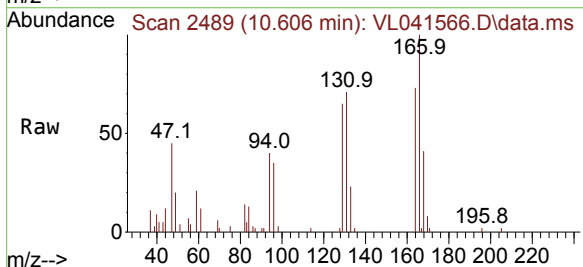
Ion Ratio Lower Upper

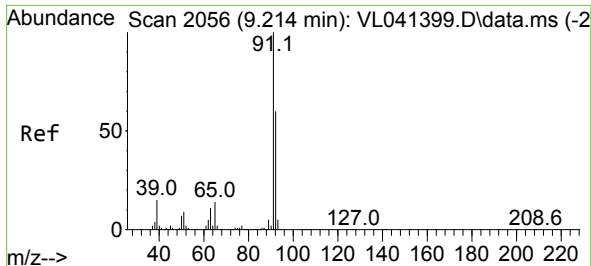
164 100

166 130.3 101.1 151.7

129 88.2 81.7 122.5

131 92.1 76.2 114.4

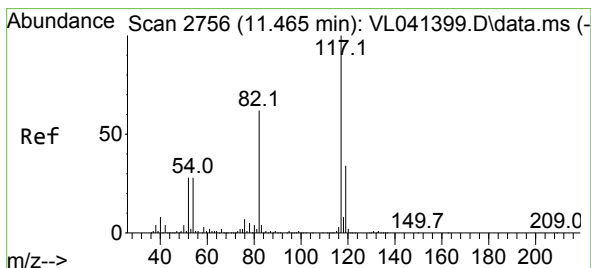
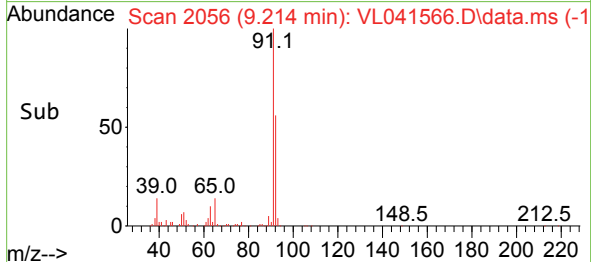
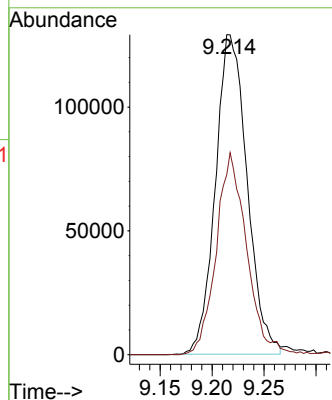
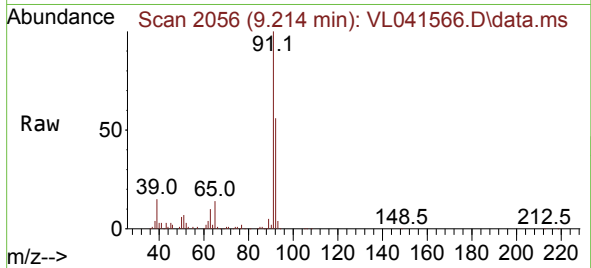




#53
Toluene
Concen: 1.242 ppbv
RT: 9.214 min Scan# 2056
Delta R.T. -0.007 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

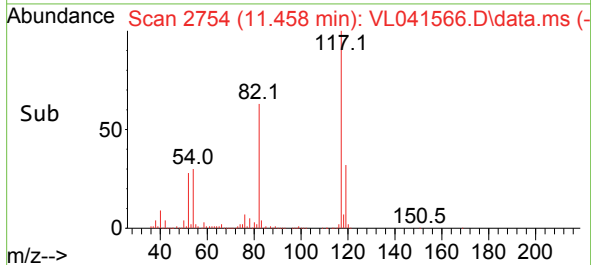
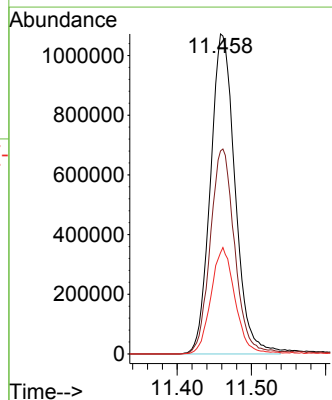
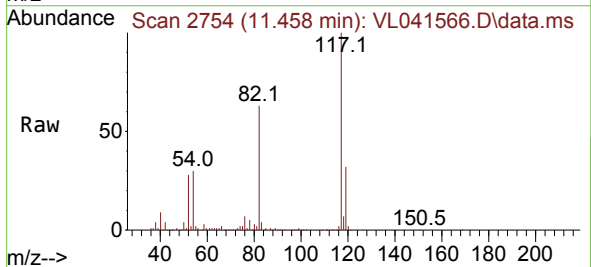
Instrument :
MSVOA_L
ClientSampleId :

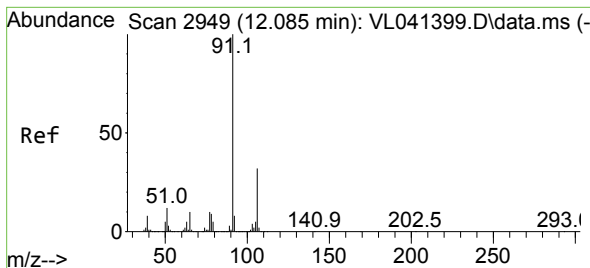
Tgt Ion: 91 Resp: 273040
Ion Ratio Lower Upper
91 100
92 61.0 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.458 min Scan# 2754
Delta R.T. -0.007 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

Tgt Ion: 117 Resp: 2470965
Ion Ratio Lower Upper
117 100
82 64.0 51.0 76.6
119 32.9 45.2 67.8#





#58

Ethyl Benzene

Concen: 2.219 ppbv

RT: 12.082 min Scan# 2948

Delta R.T. -0.007 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Instrument :

MSVOA_L

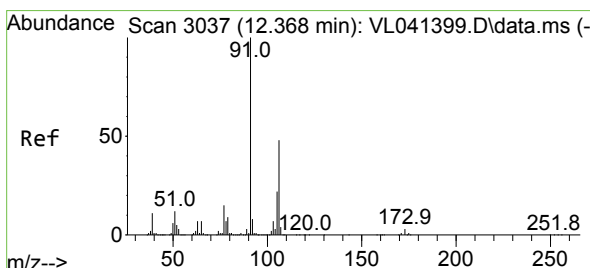
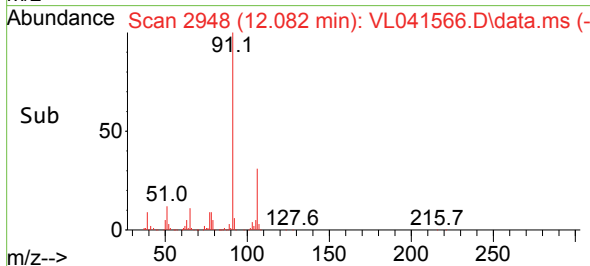
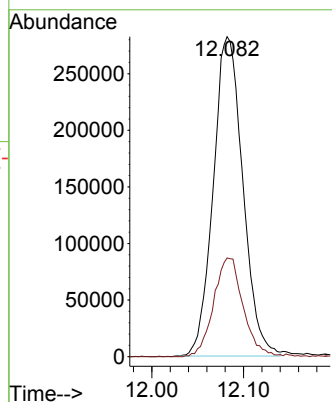
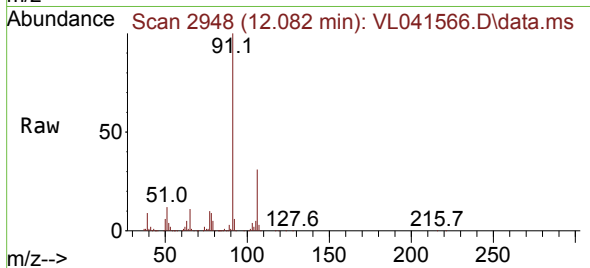
ClientSampleId :

Tgt Ion: 91 Resp: 632080

Ion Ratio Lower Upper

91 100

106 30.9 25.8 38.8



#59

m/p-Xylene

Concen: 8.966 ppbv

RT: 12.336 min Scan# 3027

Delta R.T. -0.035 min

Lab File: VL041566.D

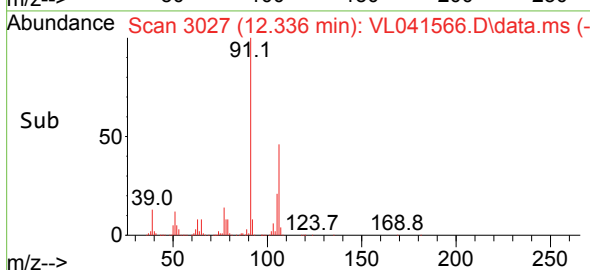
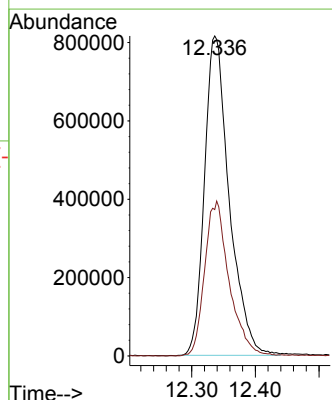
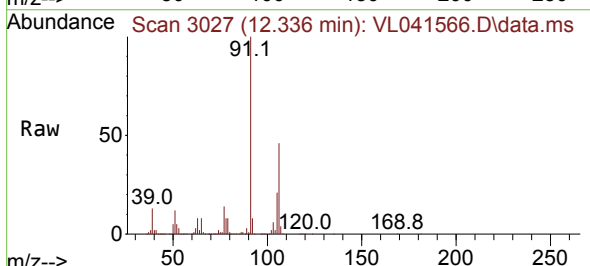
Acq: 21 Aug 2024 13:50

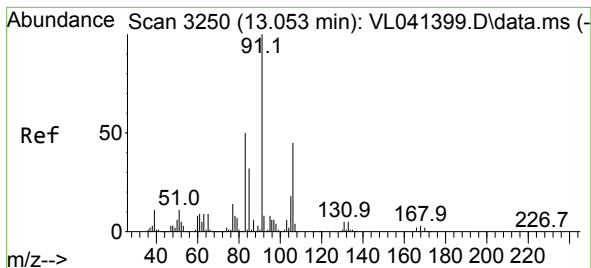
Tgt Ion: 91 Resp: 2204442

Ion Ratio Lower Upper

91 100

106 48.3 36.3 54.5

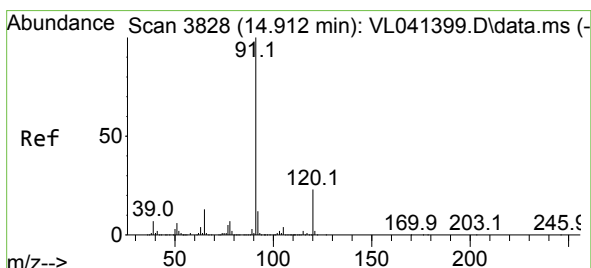
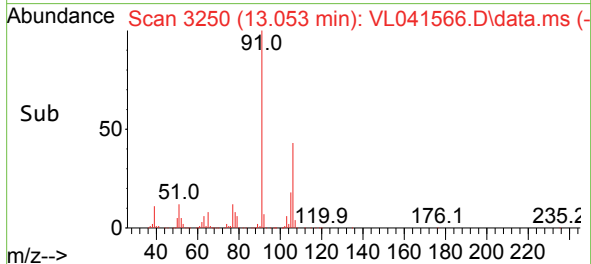
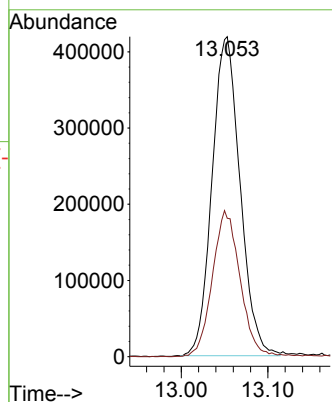
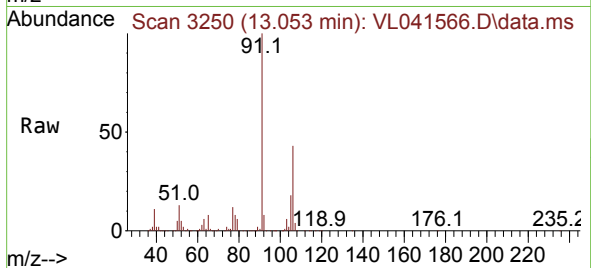




#60
o-Xylene
Concen: 4.037 ppbv
RT: 13.053 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

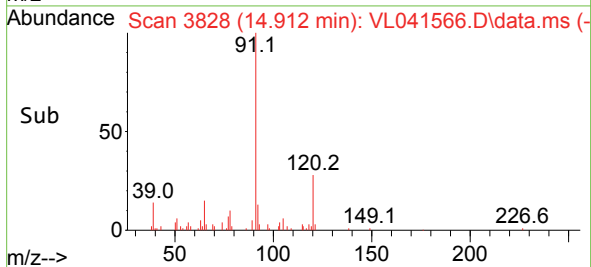
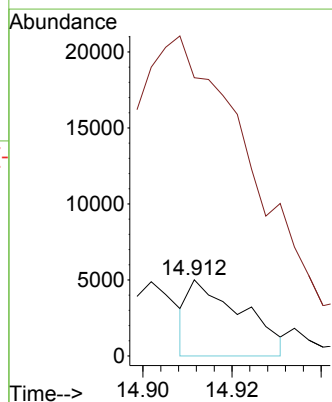
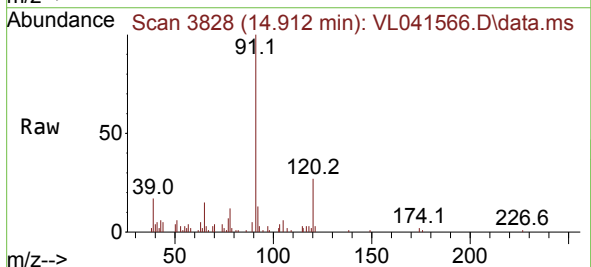
Instrument :
MSVOA_L
ClientSampleId :

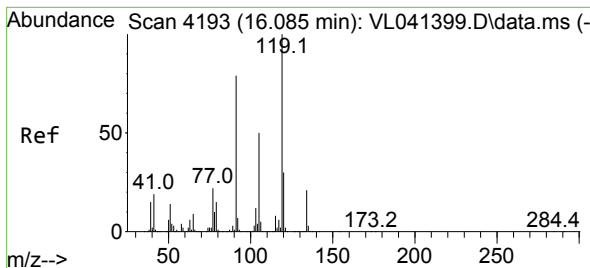
Tgt Ion: 91 Resp: 939015
Ion Ratio Lower Upper
91 100
106 46.1 23.1 69.3



#64
n-propylbenzene
Concen: 0.045 ppbv
RT: 14.912 min Scan# 3828
Delta R.T. -0.003 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

Tgt Ion: 120 Resp: 4192
Ion Ratio Lower Upper
120 100
91 1236.5 361.4 542.0#

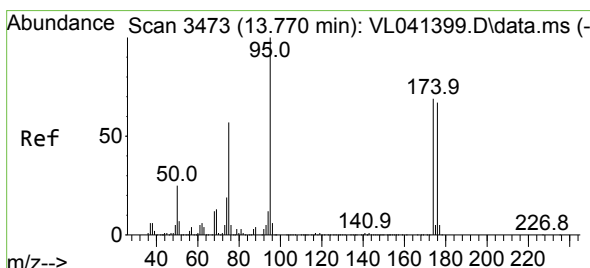
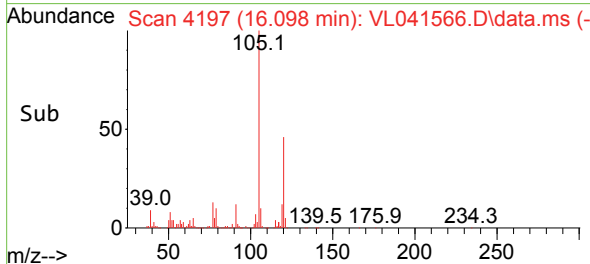
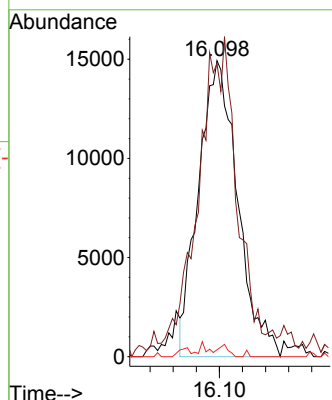
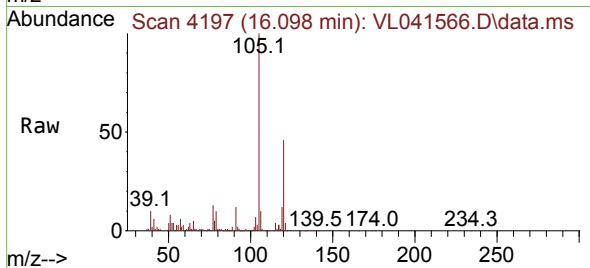




#65
tert-Butylbenzene
Concen: 0.110 ppbv
RT: 16.098 min Scan# 4193
Delta R.T. 0.010 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

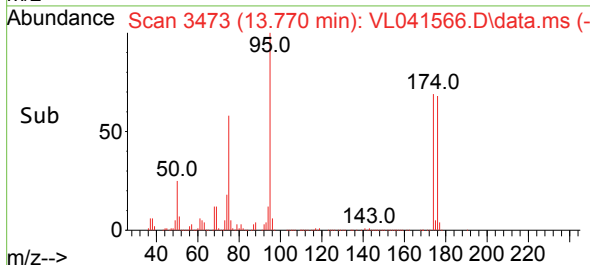
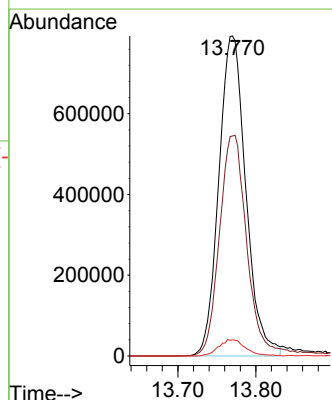
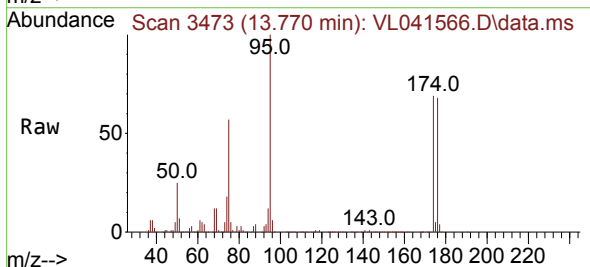
Instrument :
MSVOA_L
ClientSampleId :

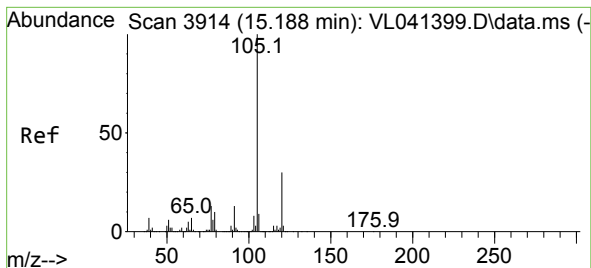
Tgt Ion:119 Resp: 35062
Ion Ratio Lower Upper
119 100
91 117.8 64.2 96.2#
134 2.1 15.7 23.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.053 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. -0.003 min
Lab File: VL041566.D
Acq: 21 Aug 2024 13:50

Tgt Ion: 95 Resp: 1911550
Ion Ratio Lower Upper
95 100
174 72.1 56.3 84.5
175 5.1 4.0 6.0





#72

4-Ethyltoluene

Concen: 0.180 ppbv

RT: 15.188 min Scan# 3914

Delta R.T. -0.000 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 49407

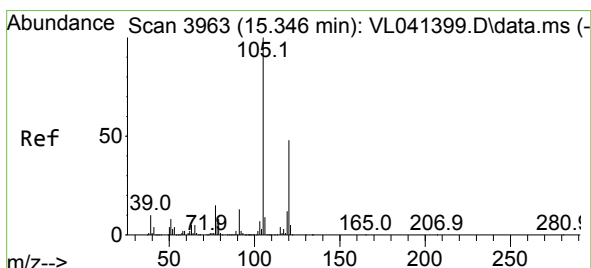
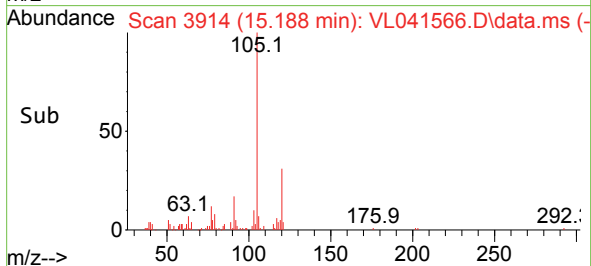
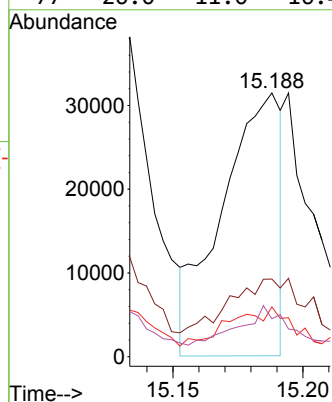
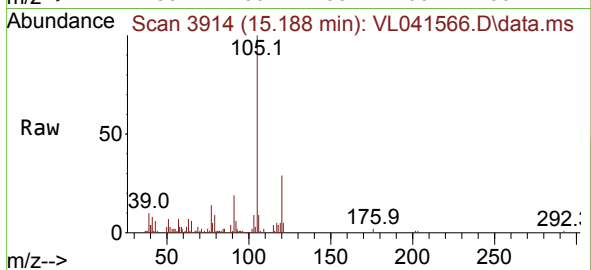
Ion Ratio Lower Upper

105 100

120 0.0 24.2 36.2#

91 27.0 10.4 15.6#

77 26.0 11.0 16.4#



#73

1,3,5-Trimethylbenzene

Concen: 0.215 ppbv

RT: 15.349 min Scan# 3964

Delta R.T. -0.000 min

Lab File: VL041566.D

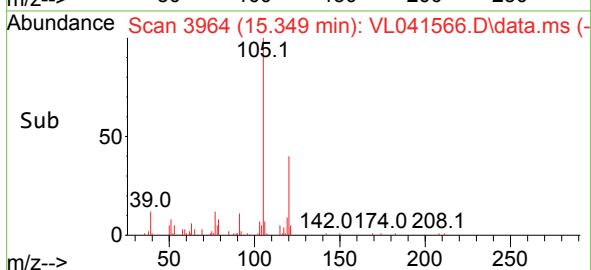
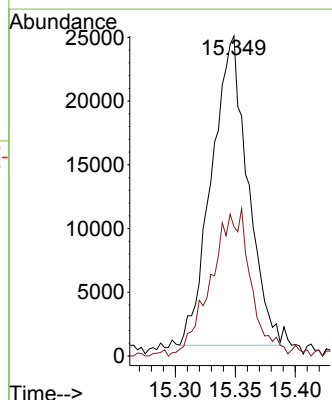
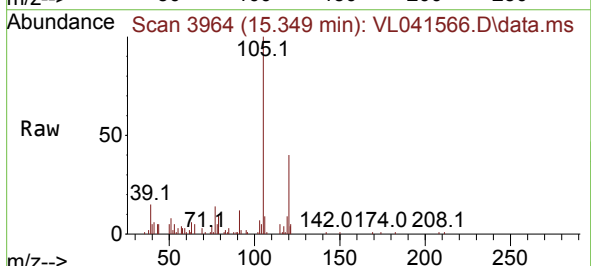
Acq: 21 Aug 2024 13:50

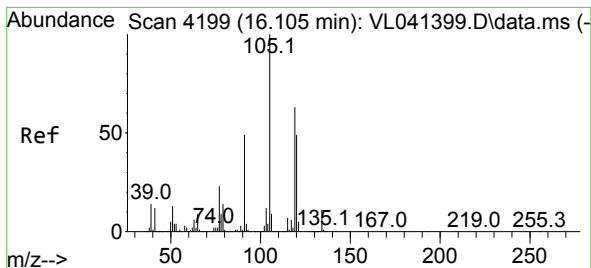
Tgt Ion:105 Resp: 50786

Ion Ratio Lower Upper

105 100

120 44.2 38.6 57.8





#74

1,2,4-Trimethylbenzene

Concen: 1.038 ppbv

RT: 16.095 min Scan# 41

Delta R.T. -0.013 min

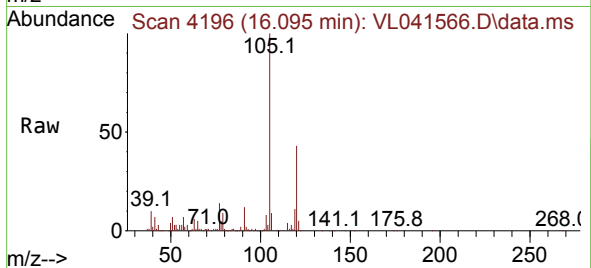
Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:105 Resp: 284793

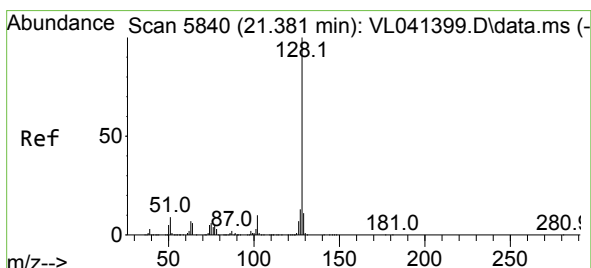
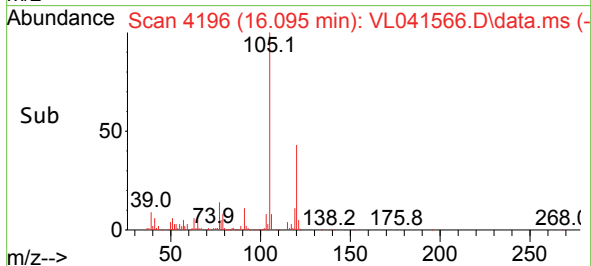
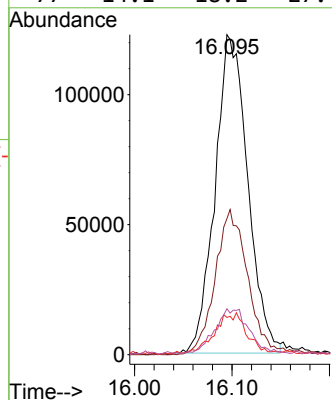
Ion Ratio Lower Upper

105 100

120 42.5 39.5 59.3

91 11.2 39.8 59.8#

77 14.1 18.2 27.4#



#79

Naphthalene

Concen: 0.032 ppbv

RT: 21.368 min Scan# 5836

Delta R.T. -0.016 min

Lab File: VL041566.D

Acq: 21 Aug 2024 13:50

Tgt Ion:128 Resp: 7860

Ion Ratio Lower Upper

128 100

127 4.4 10.3 15.5#

129 7.6 9.0 13.4#

