

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121222\
 Data File : VL039985.D
 Acq On : 12 Dec 2022 21:05
 Operator : SY/MD
 Sample : N5971-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Quant Time: Dec 13 07:09:31 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Dec 02 23:21:36 2022
 Response via : Initial Calibration

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

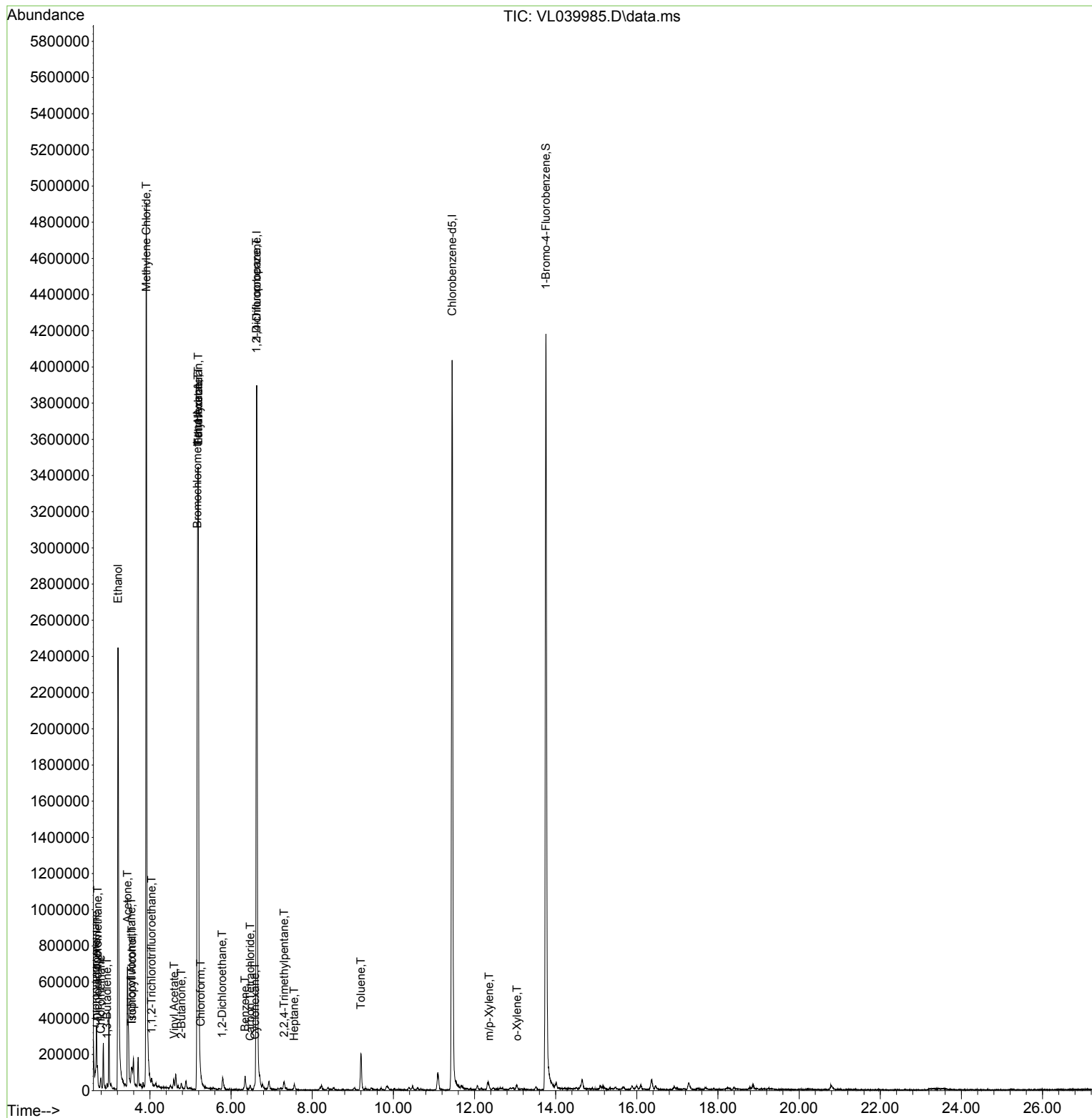
Internal Standards						
1) Bromochloromethane	5.169	49	1124587	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.632	114	2915210	10.000	ppbv	0.01
55) Chlorobenzene-d5	11.449	117	2586816	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.760	95	2125923	10.760	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.709	85	61968	0.385	ppbv	93
3) Chlorodifluoromethane	2.655	51	76298	0.492	ppbv	94
4) Chloromethane	2.790	50	39927	0.403	ppbv	88
9) Propene	2.684	41	93557	1.280	ppbv	86
10) Heptane	7.552	43	6228	0.035	ppbv #	19
11) Trichlorofluoromethane	3.539	101	46470	0.237	ppbv	94
12) 1,1,2-Trichlorotrifluo...	4.041	101	8946	0.060	ppbv #	80
13) Ethanol	3.214	45	2597579	465.435	ppbv	99
15) Acetone	3.446	43	700639	4.697	ppbv	95
16) 1,3-Butadiene	2.944	39	4366	0.059	ppbv	84
19) Isopropyl Alcohol	3.562	45	116456	1.442	ppbv #	1
20) Methylene Chloride	3.912	84	1723671	23.851	ppbv	96
23) Vinyl Acetate	4.600	43	5074	0.083	ppbv #	72
25) Ethyl Acetate	5.192	43	769856	2.811	ppbv #	76
26) Hexane	5.188	57	1121181	9.371	ppbv #	38
29) Chloroform	5.250	83	6523	0.041	ppbv #	59
30) Cyclohexane	6.587	84	2897	0.025	ppbv #	1
34) 2-Butanone	4.774	43	32835	0.235	ppbv	92
35) Carbon Tetrachloride	6.475	117	8555	0.052	ppbv #	78
36) Benzene	6.346	78	48635	0.196	ppbv	95
37) 1,2-Dichloroethane	5.780	62	9177	0.068	ppbv #	89
39) 1,2-Dichloropropane	6.629	63	733931	7.602	ppbv #	26
41) Tetrahydrofuran	5.192	42	411343	4.271	ppbv #	49
44) 2,2,4-Trimethylpentane	7.311	57	26100	0.063	ppbv #	42
53) Toluene	9.201	91	154885	0.549	ppbv	96
59) m/p-Xylene	12.359	91	10550	0.036	ppbv #	30
60) o-Xylene	13.047	91	11771	0.042	ppbv #	42

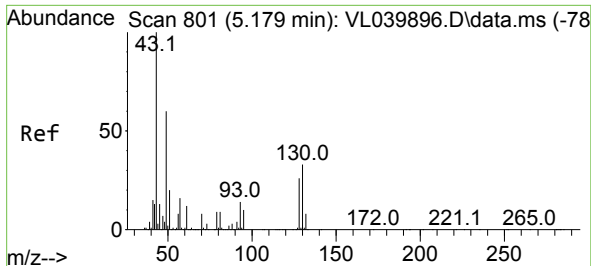
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 13 07:09:31 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11822AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Dec 02 23:21:36 2022
Response via : Initial Calibration

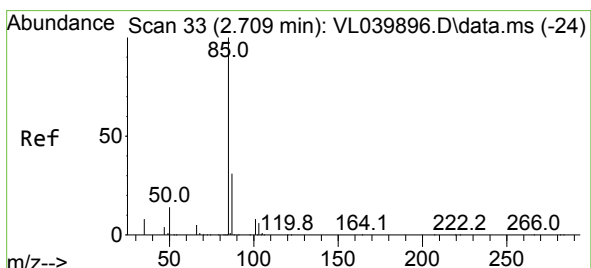
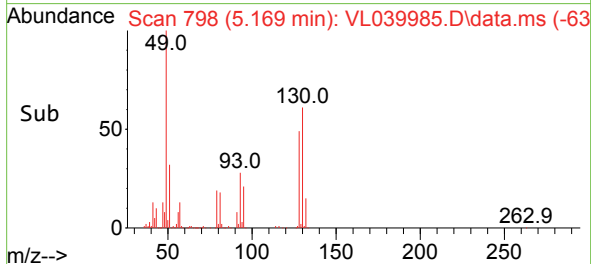
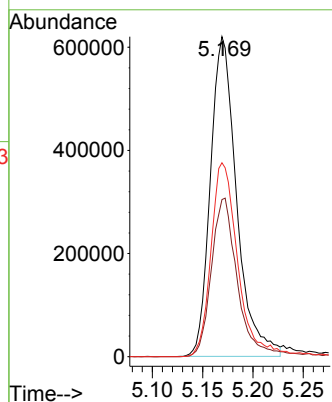
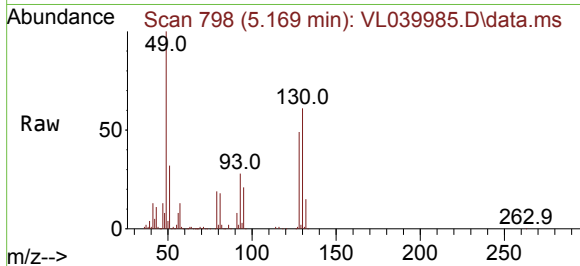




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 79
Delta R.T. 0.013 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

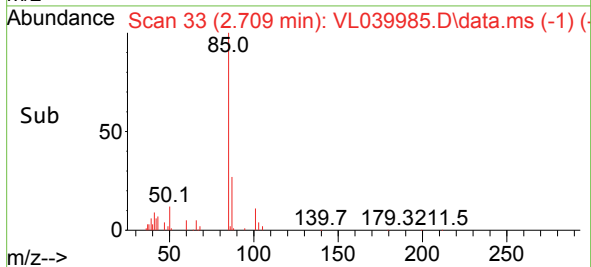
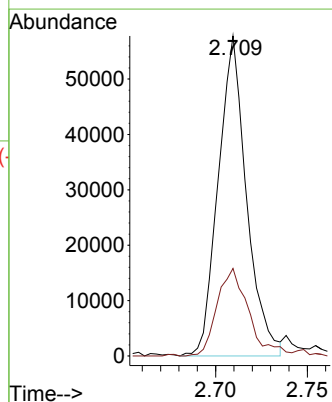
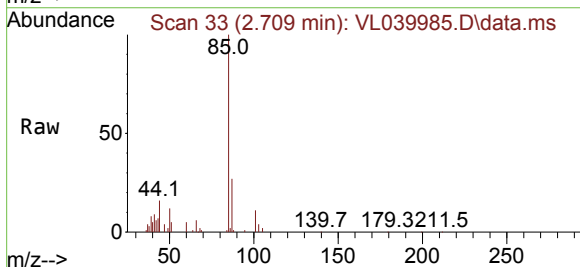
Instrument :
MSVOA_L
ClientSampleId :
OA-1

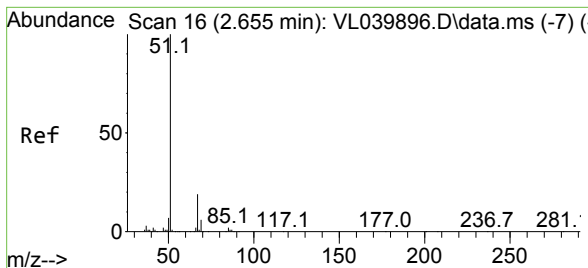
Tgt Ion: 49 Resp: 1124587
Ion Ratio Lower Upper
49 100
128 50.7 22.1 66.3
130 63.6 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.385 ppbv
RT: 2.709 min Scan# 33
Delta R.T. 0.013 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

Tgt Ion: 85 Resp: 61968
Ion Ratio Lower Upper
85 100
87 27.3 25.0 37.4

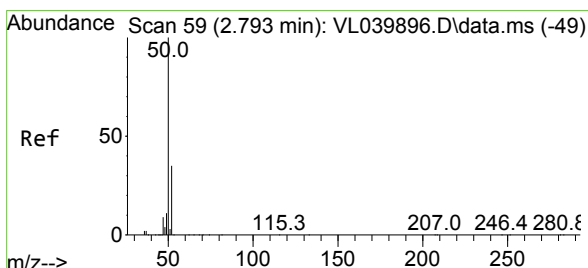
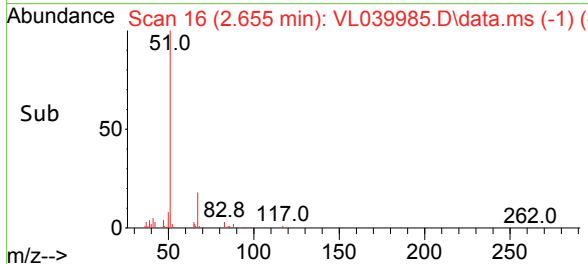
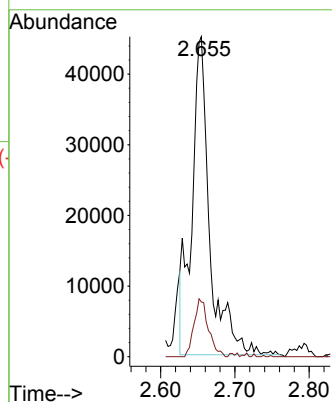
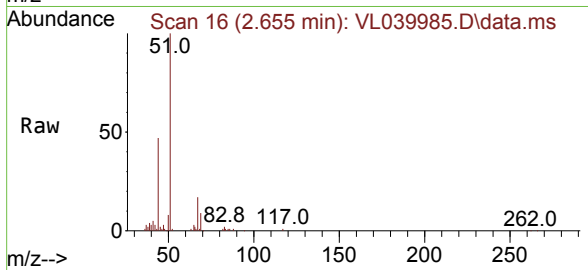




#3
Chlorodifluoromethane
Concen: 0.492 ppbv
RT: 2.655 min Scan# 1
Delta R.T. 0.013 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

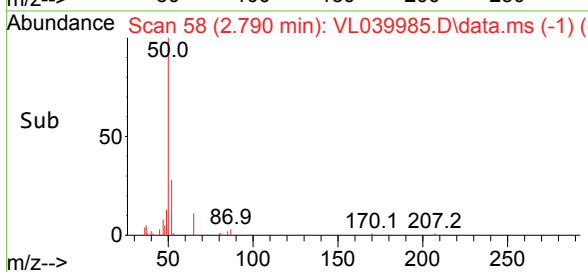
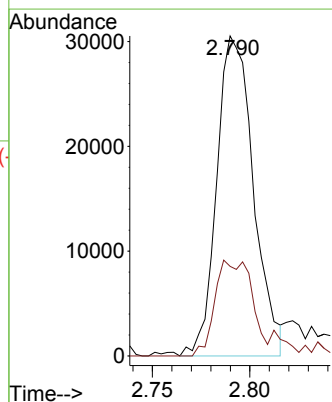
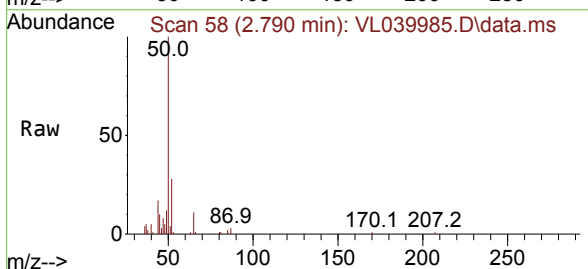
Instrument :
MSVOA_L
ClientSampleId :
OA-1

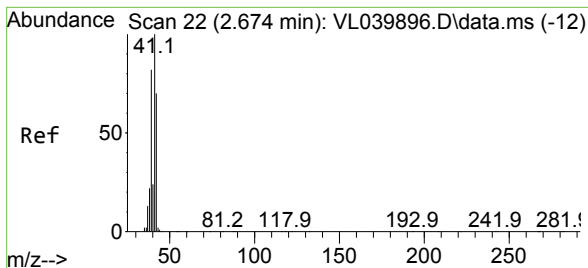
Tgt Ion: 51 Resp: 76298
Ion Ratio Lower Upper
51 100
67 15.1 14.2 21.4



#4
Chloromethane
Concen: 0.403 ppbv
RT: 2.790 min Scan# 58
Delta R.T. 0.010 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

Tgt Ion: 50 Resp: 39927
Ion Ratio Lower Upper
50 100
52 28.0 27.8 41.8





#9

Propene

Concen: 1.280 ppbv

RT: 2.684 min Scan# 21

Delta R.T. 0.023 min

Lab File: VL039985.D

Acq: 12 Dec 2022 21:05

Instrument :

MSVOA_L

ClientSampleId :

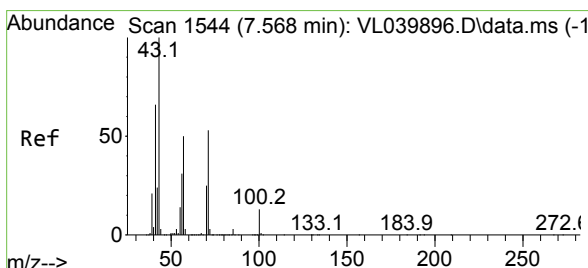
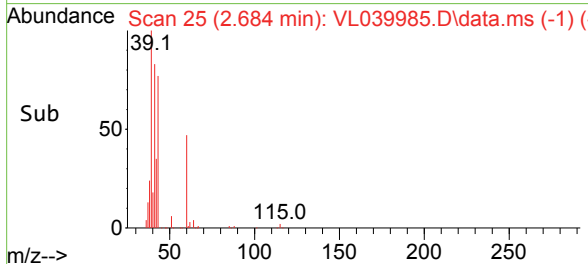
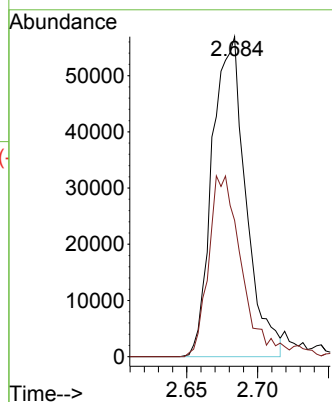
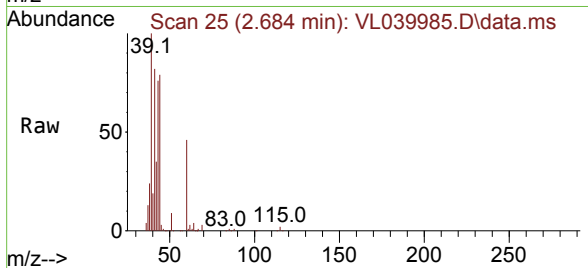
OA-1

Tgt Ion: 41 Resp: 93557

Ion Ratio Lower Upper

41 100

42 58.1 55.8 83.6



#10

Heptane

Concen: 0.035 ppbv

RT: 7.552 min Scan# 1539

Delta R.T. 0.006 min

Lab File: VL039985.D

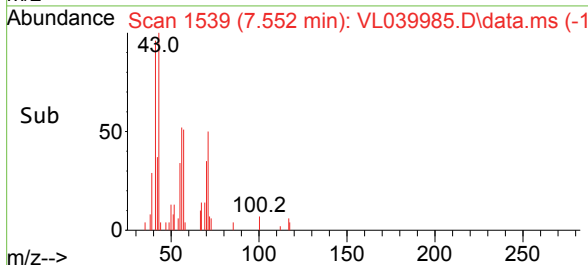
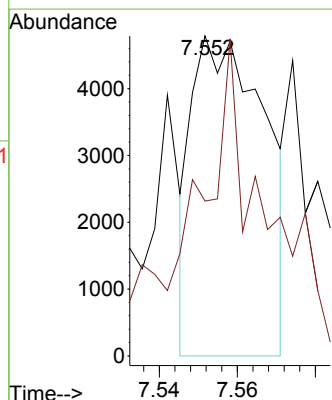
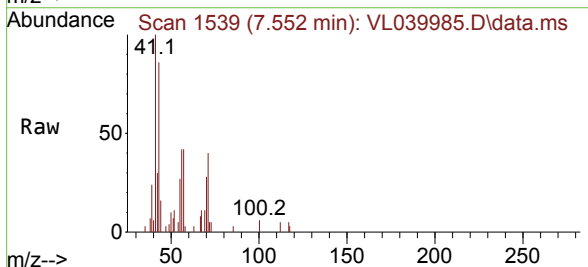
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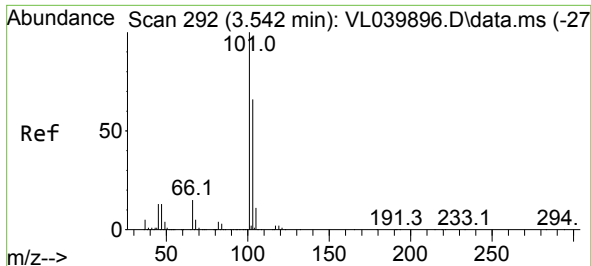
Tgt Ion: 43 Resp: 6228

Ion Ratio Lower Upper

43 100

57 107.2 40.7 61.1#

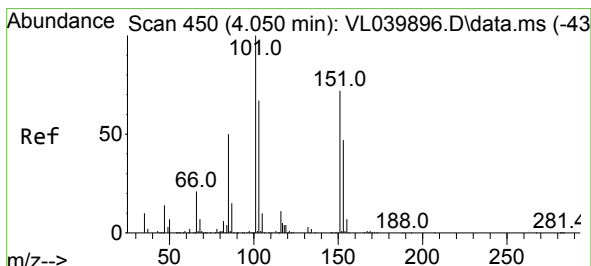
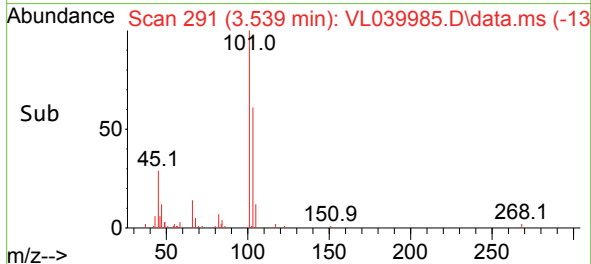
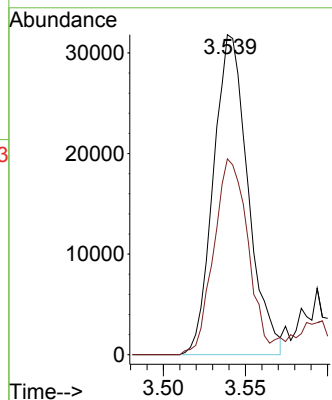
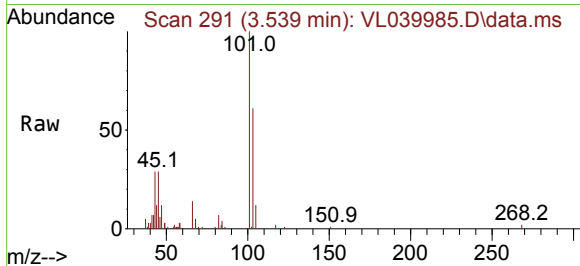




#11
 Trichlorofluoromethane
 Concen: 0.237 ppbv
 RT: 3.539 min Scan# 292
 Delta R.T. 0.010 min
 Lab File: VL039985.D
 Acq: 12 Dec 2022 21:05

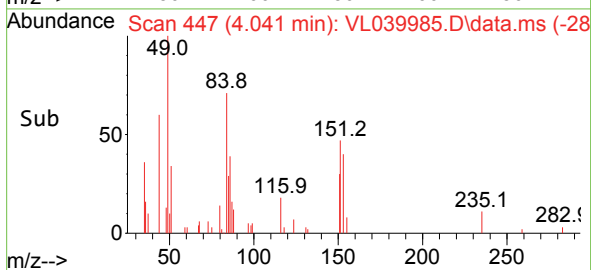
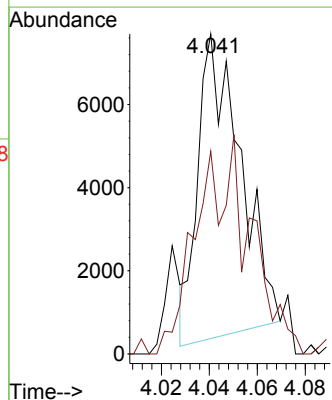
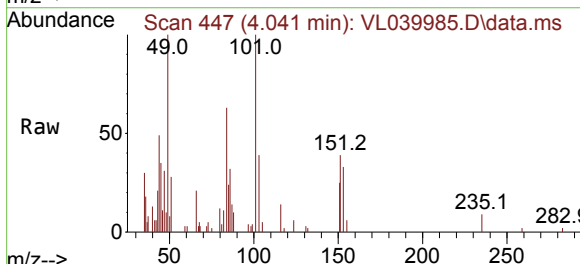
Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

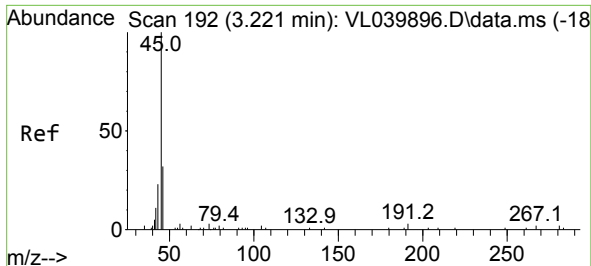
Tgt Ion:101 Resp: 46470
 Ion Ratio Lower Upper
 101 100
 103 61.2 52.6 78.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.060 ppbv
 RT: 4.041 min Scan# 447
 Delta R.T. 0.010 min
 Lab File: VL039985.D
 Acq: 12 Dec 2022 21:05

Tgt Ion:101 Resp: 8946
 Ion Ratio Lower Upper
 101 100
 151 91.4 59.6 89.4#





#13

Ethanol

Concen: 465.435 ppbv

RT: 3.214 min Scan# 190

Delta R.T. 0.000 min

Lab File: VL039985.D

Acq: 12 Dec 2022 21:05

Instrument :

MSVOA_L

ClientSampleId :

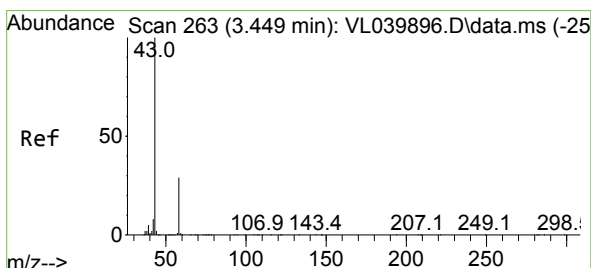
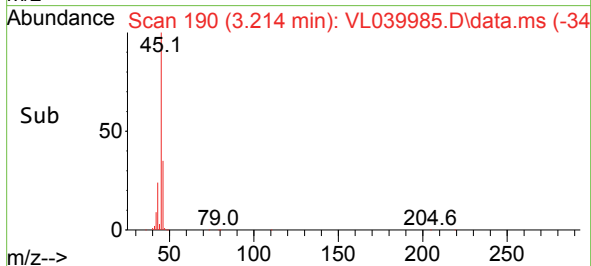
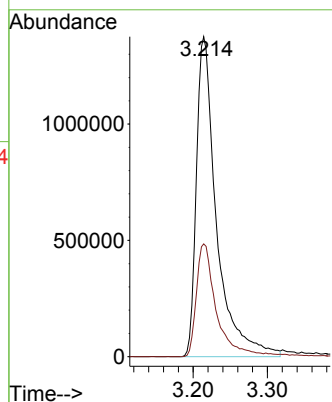
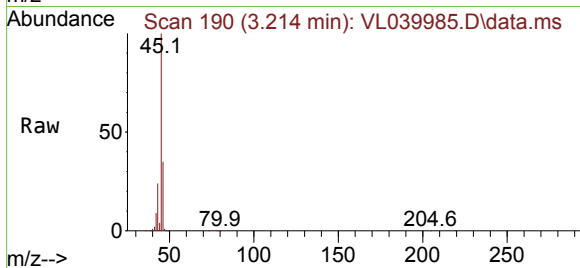
OA-1

Tgt Ion: 45 Resp: 2597579

Ion Ratio Lower Upper

45 100

46 36.0 14.6 58.2



#15

Acetone

Concen: 4.697 ppbv

RT: 3.446 min Scan# 262

Delta R.T. 0.013 min

Lab File: VL039985.D

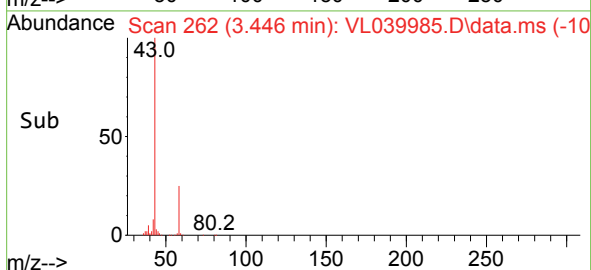
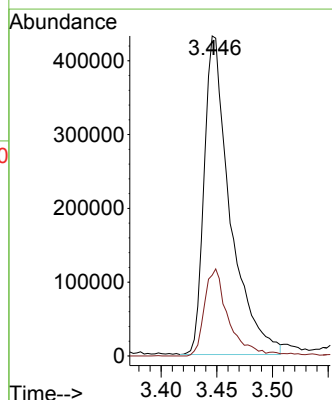
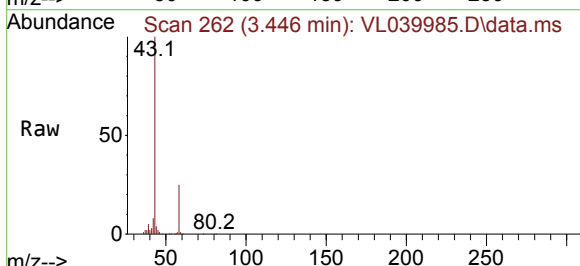
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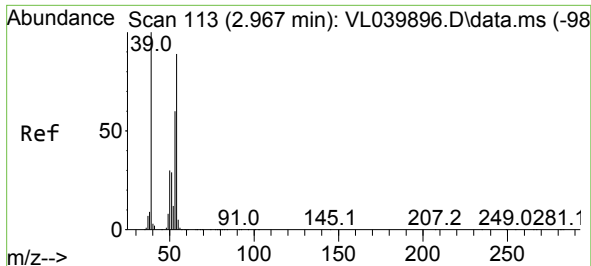
Tgt Ion: 43 Resp: 700639

Ion Ratio Lower Upper

43 100

58 26.1 22.9 34.3

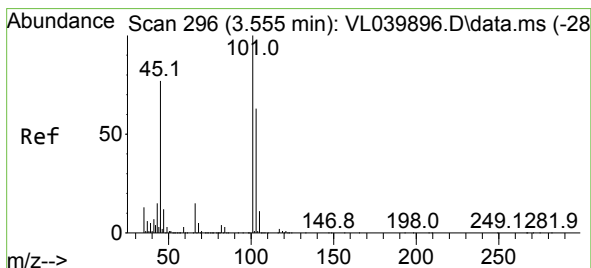
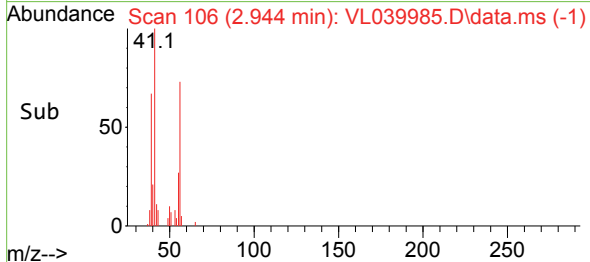
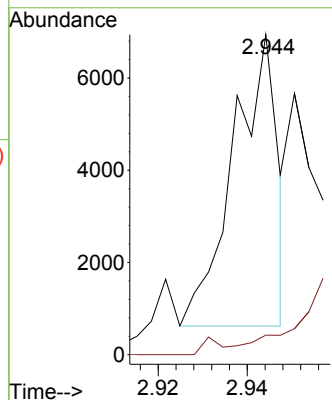
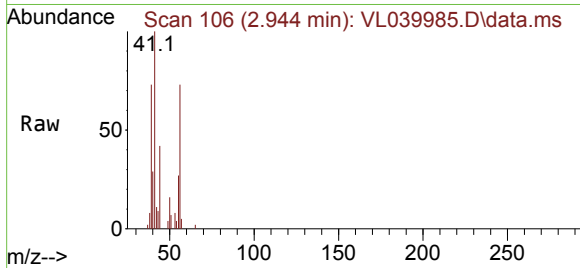




#16
1,3-Butadiene
Concen: 0.059 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.006 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

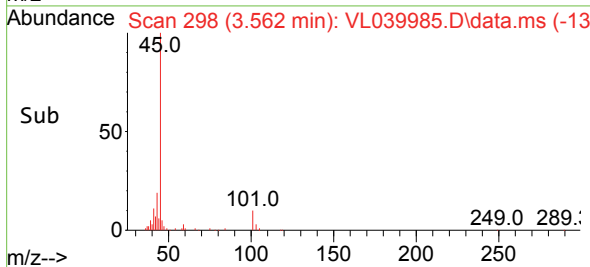
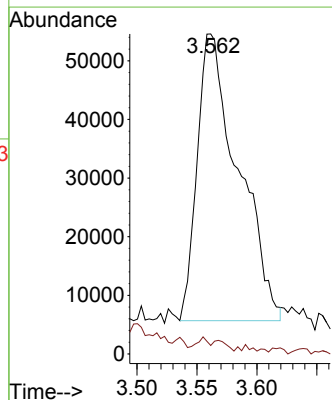
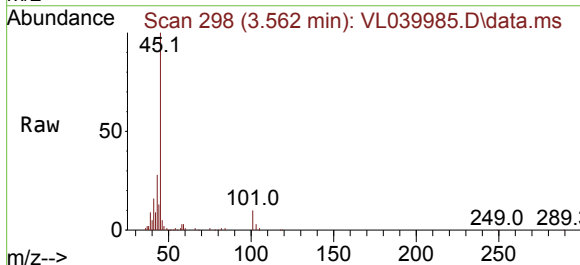
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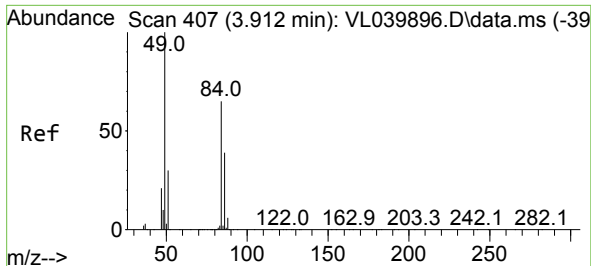
Tgt Ion: 39 Resp: 4366
Ion Ratio Lower Upper
39 100
54 97.6 66.6 99.8



#19
Isopropyl Alcohol
Concen: 1.442 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.019 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

Tgt Ion: 45 Resp: 116456
Ion Ratio Lower Upper
45 100
58 156.6 38.7 58.1#





#20

Methylene Chloride

Concen: 23.851 ppbv

RT: 3.912 min Scan# 407

Delta R.T. 0.016 min

Lab File: VL039985.D

Acq: 12 Dec 2022 21:05

Instrument :

MSVOA_L

ClientSampleId :

OA-1

Tgt Ion: 84 Resp: 1723671

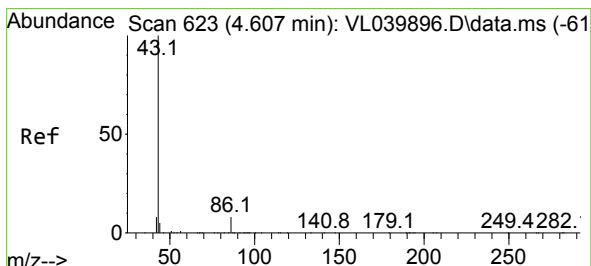
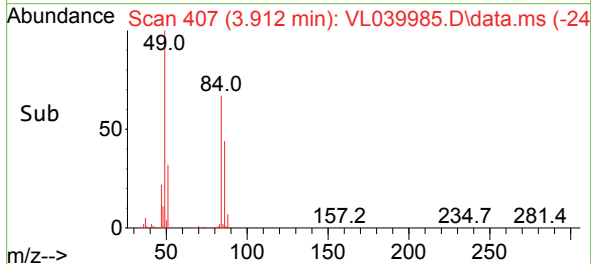
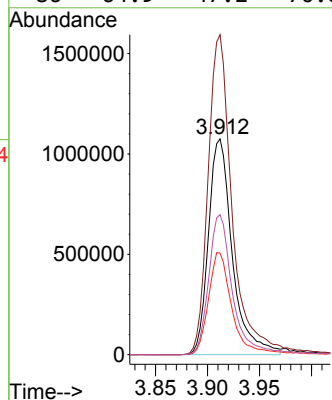
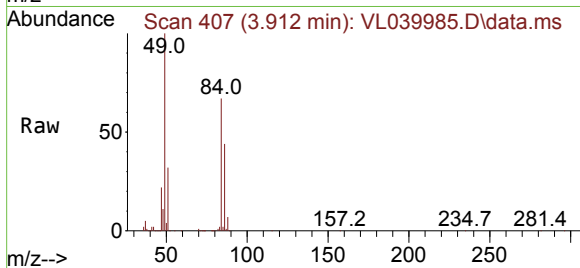
Ion Ratio Lower Upper

84 100

49 148.3 122.2 183.4

51 47.1 36.3 54.5

86 64.9 47.2 70.8



#23

Vinyl Acetate

Concen: 0.083 ppbv

RT: 4.600 min Scan# 621

Delta R.T. 0.006 min

Lab File: VL039985.D

Acq: 12 Dec 2022 21:05

Tgt Ion: 43 Resp: 5074

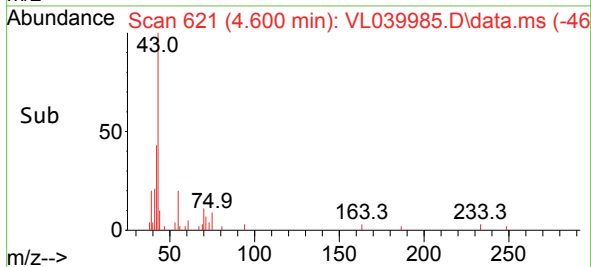
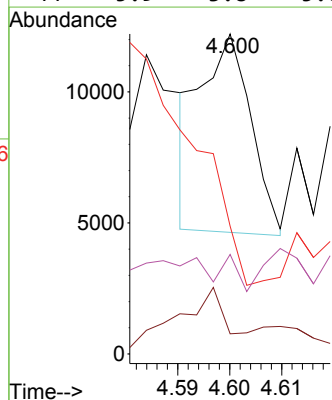
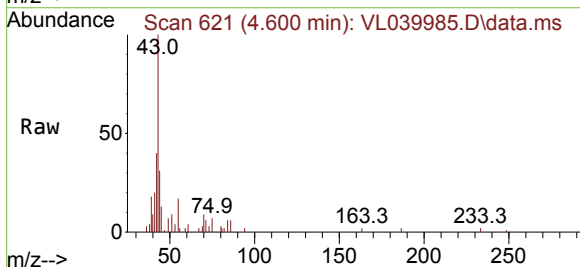
Ion Ratio Lower Upper

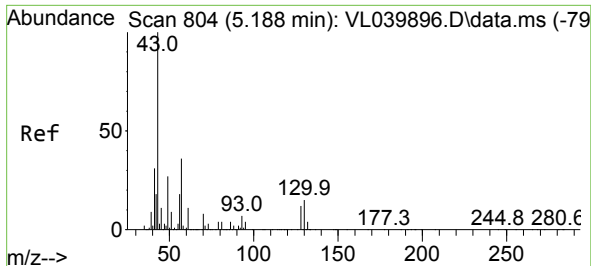
43 100

86 0.0 5.0 7.4#

42 26.2 7.6 11.4#

44 5.9 3.8 5.6#

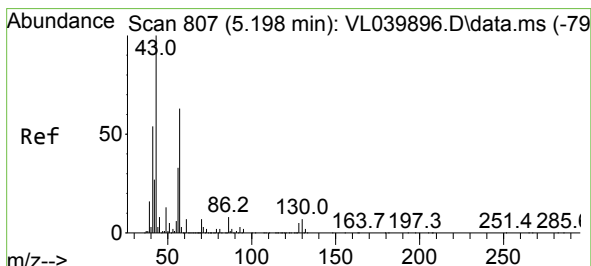
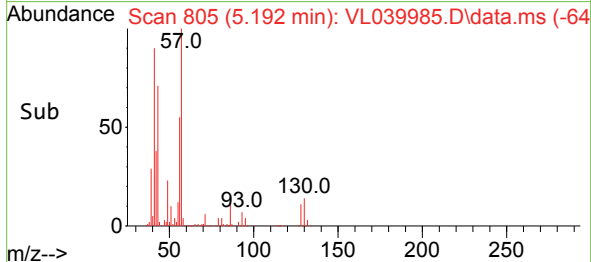
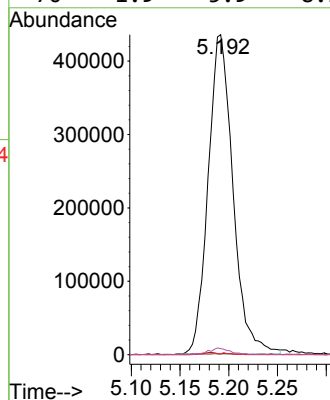
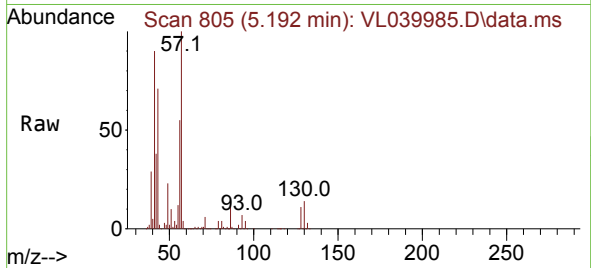




#25
Ethyl Acetate
Concen: 2.811 ppbv
RT: 5.192 min Scan# 804
Delta R.T. 0.023 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

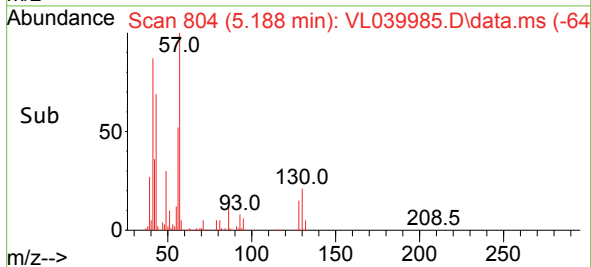
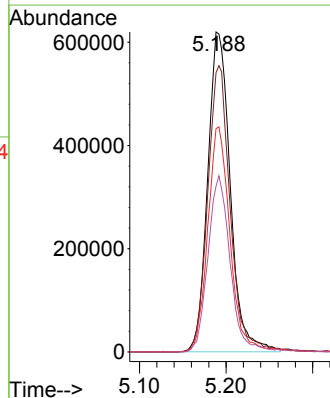
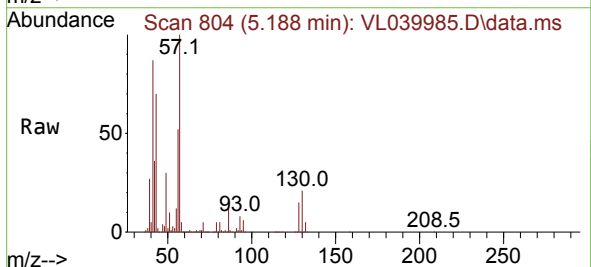
Instrument :
MSVOA_L
ClientSampleId :
OA-1

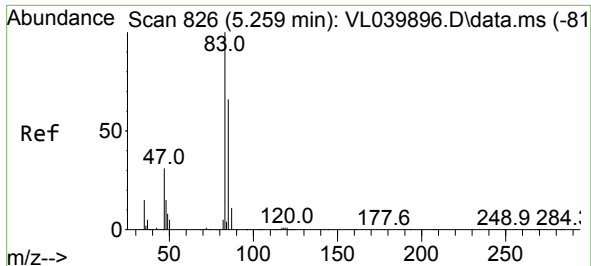
Tgt Ion: 43 Resp: 769856
Ion Ratio Lower Upper
43 100
45 0.7 8.4 12.6#
61 0.5 8.5 12.7#
70 1.9 5.9 8.9#



#26
Hexane
Concen: 9.371 ppbv
RT: 5.188 min Scan# 804
Delta R.T. 0.013 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

Tgt Ion: 57 Resp: 1121181
Ion Ratio Lower Upper
57 100
41 90.0 72.3 108.5
43 70.1 188.7 283.1#
56 54.8 42.4 63.6





#29

Chloroform

Concen: 0.041 ppbv

RT: 5.250 min Scan# 81

Delta R.T. 0.013 min

Lab File: VL039985.D

Acq: 12 Dec 2022 21:05

Instrument :

MSVOA_L

ClientSampleId :

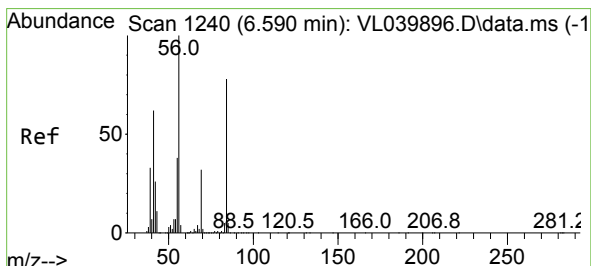
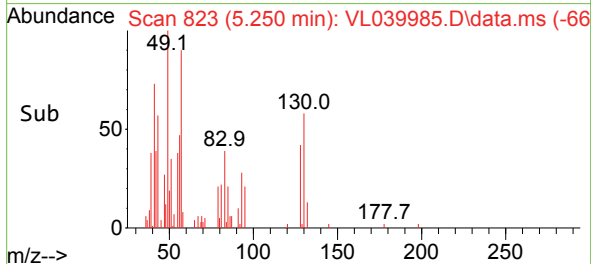
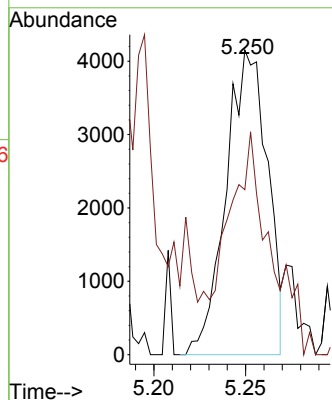
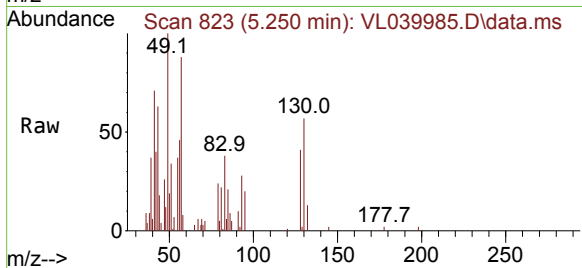
OA-1

Tgt Ion: 83 Resp: 6523

Ion Ratio Lower Upper

83 100

85 33.1 52.4 78.6#



#30

Cyclohexane

Concen: 0.025 ppbv

RT: 6.587 min Scan# 1239

Delta R.T. 0.023 min

Lab File: VL039985.D

Acq: 12 Dec 2022 21:05

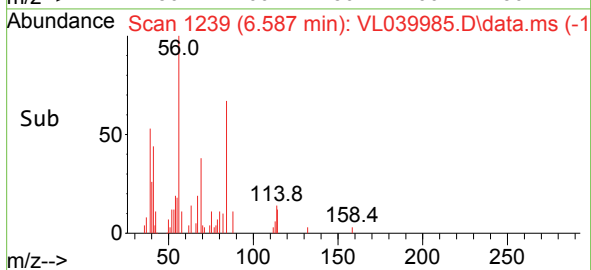
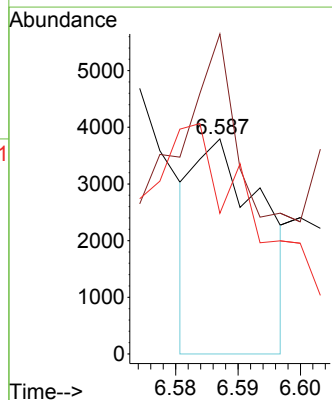
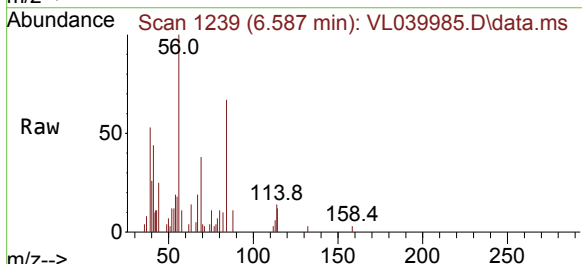
Tgt Ion: 84 Resp: 2897

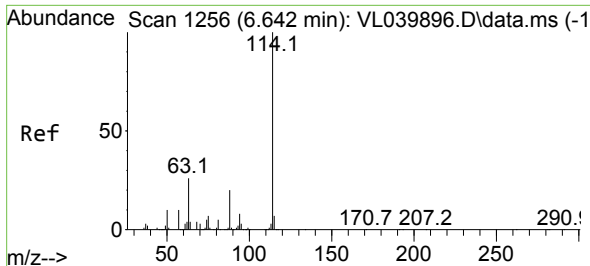
Ion Ratio Lower Upper

84 100

56 0.0 112.5 168.7#

41 356.4 67.8 101.8#

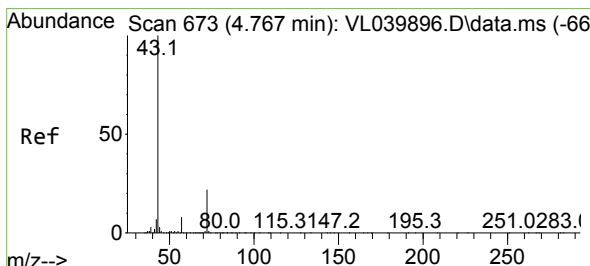
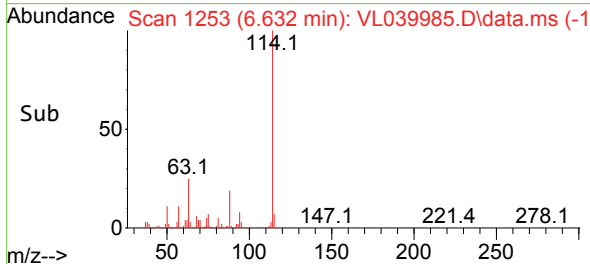
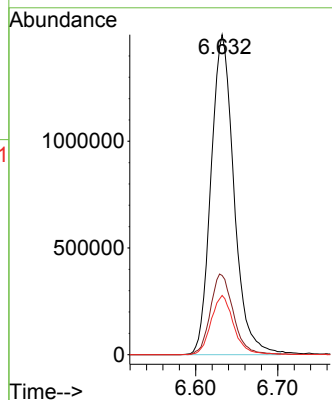
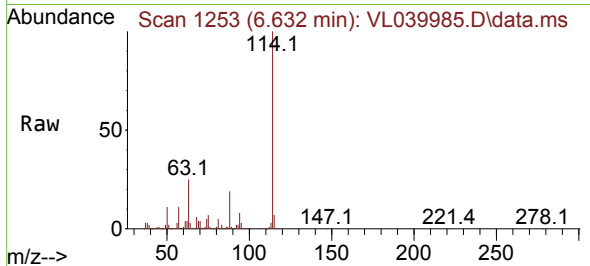




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.632 min Scan# 11
Delta R.T. 0.013 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

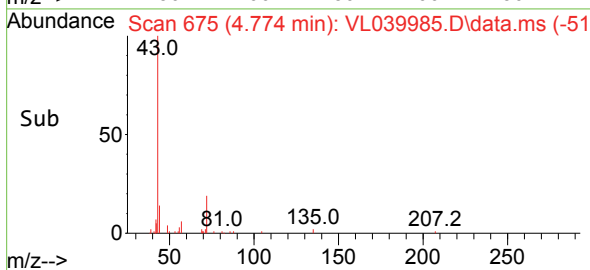
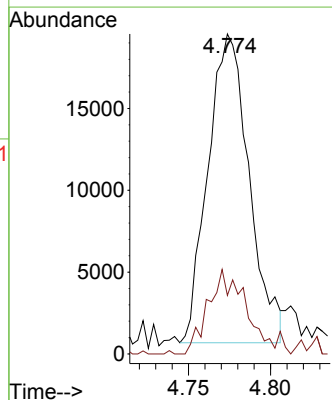
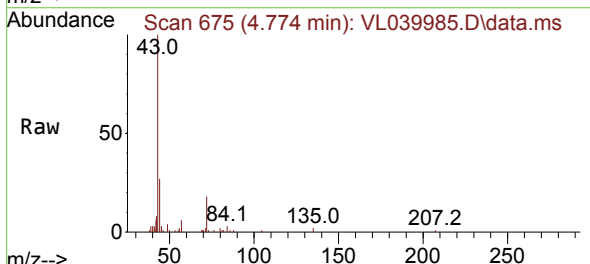
Instrument :
MSVOA_L
ClientSampleId :
OA-1

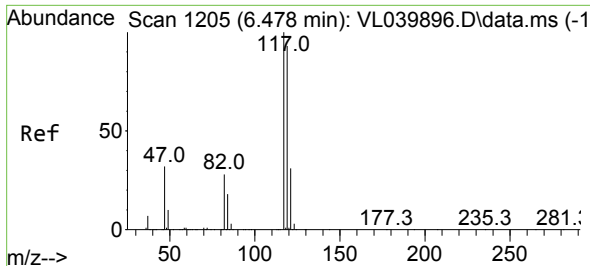
Tgt Ion:114 Resp: 2915210
Ion Ratio Lower Upper
114 100
63 25.4 21.4 32.0
88 18.4 15.3 22.9



#34
2-Butanone
Concen: 0.235 ppbv
RT: 4.774 min Scan# 675
Delta R.T. 0.023 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

Tgt Ion: 43 Resp: 32835
Ion Ratio Lower Upper
43 100
72 25.7 17.4 26.2

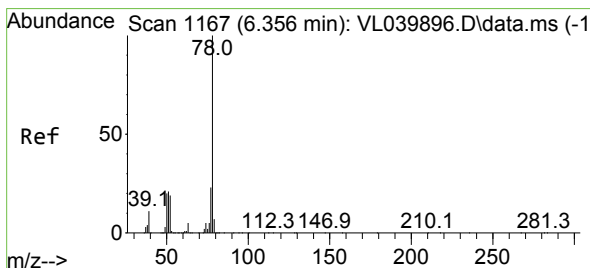
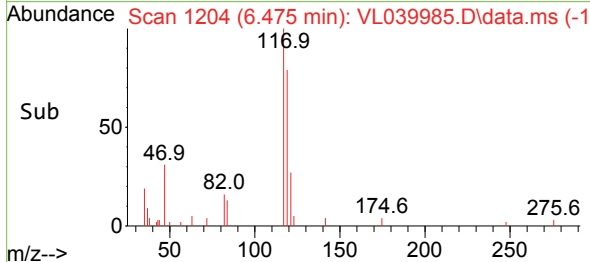
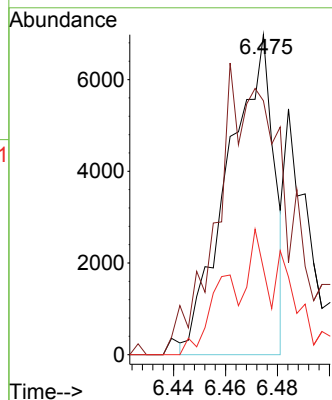
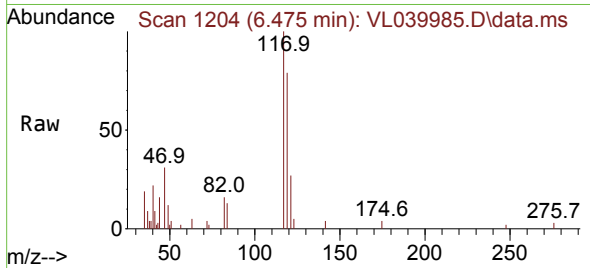




#35
Carbon Tetrachloride
Concen: 0.052 ppbv
RT: 6.475 min Scan# 1164
Delta R.T. 0.019 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

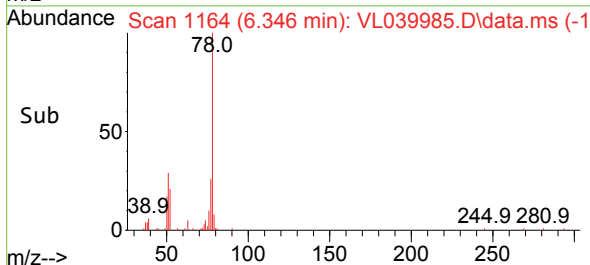
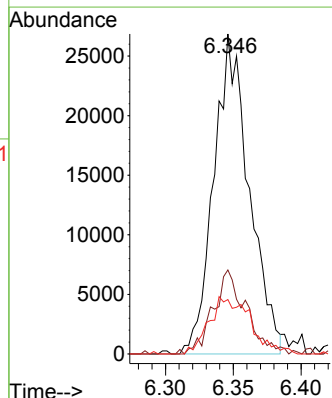
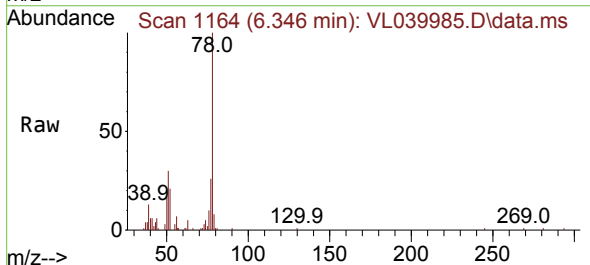
Instrument :
MSVOA_L
ClientSampleId :
OA-1

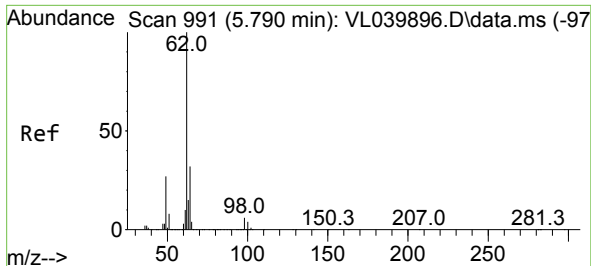
Tgt Ion:117 Resp: 8555
Ion Ratio Lower Upper
117 100
119 66.4 74.7 112.1#
121 27.9 24.5 36.7



#36
Benzene
Concen: 0.196 ppbv
RT: 6.346 min Scan# 1164
Delta R.T. 0.013 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

Tgt Ion: 78 Resp: 48635
Ion Ratio Lower Upper
78 100
77 24.9 18.2 27.2
50 17.0 15.8 23.8





#37

1,2-Dichloroethane

Concen: 0.068 ppbv

RT: 5.780 min Scan# 91

Delta R.T. 0.013 min

Lab File: VL039985.D

Acq: 12 Dec 2022 21:05

Instrument :

MSVOA_L

ClientSampleId :

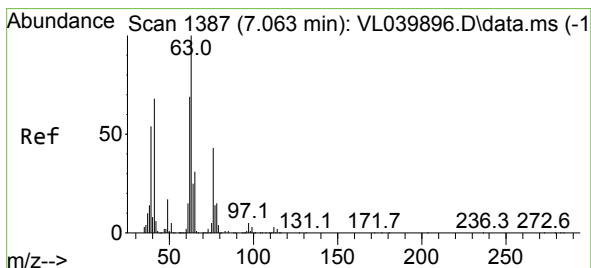
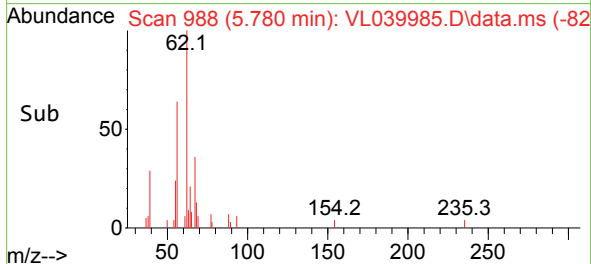
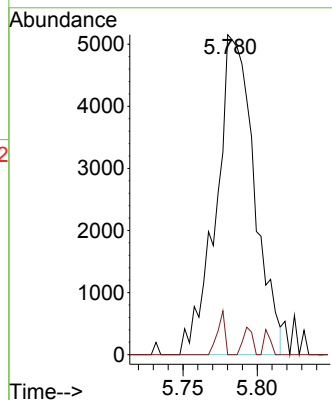
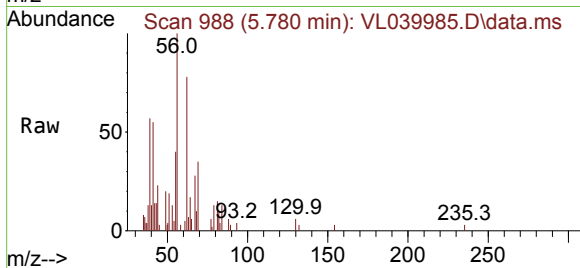
OA-1

Tgt Ion: 62 Resp: 9177

Ion Ratio Lower Upper

62 100

98 2.6 5.0 7.6#



#39

1,2-Dichloropropane

Concen: 7.602 ppbv

RT: 6.629 min Scan# 1252

Delta R.T. -0.405 min

Lab File: VL039985.D

Acq: 12 Dec 2022 21:05

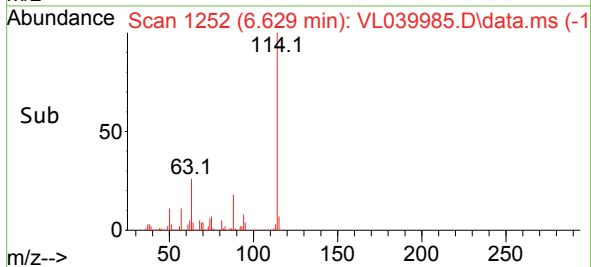
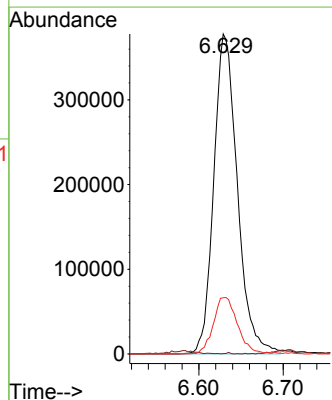
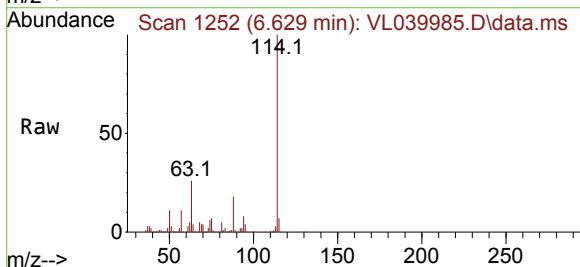
Tgt Ion: 63 Resp: 733931

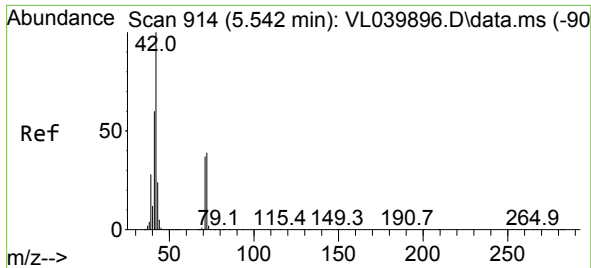
Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 17.6 55.0 82.6#





#41

Tetrahydrofuran

Concen: 4.271 ppbv

RT: 5.192 min Scan# 80

Delta R.T. -0.328 min

Lab File: VL039985.D

Acq: 12 Dec 2022 21:05

Instrument :

MSVOA_L

ClientSampleId :

OA-1

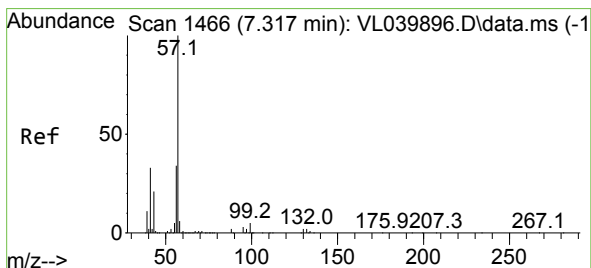
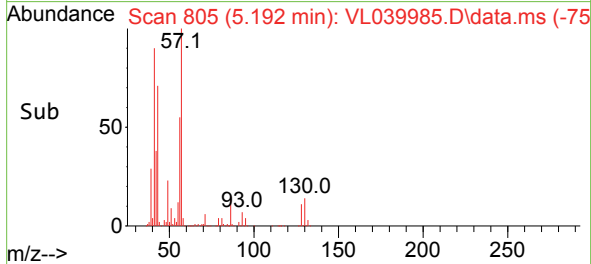
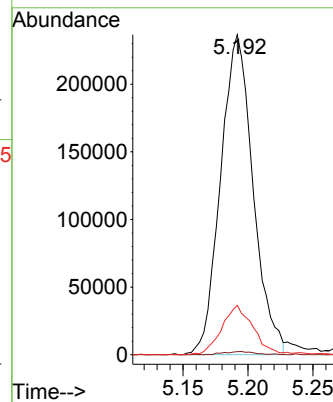
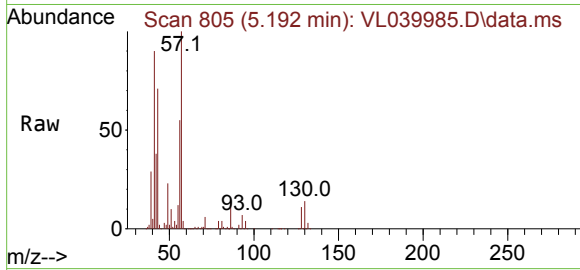
Tgt Ion: 42 Resp: 411343

Ion Ratio Lower Upper

42 100

72 1.0 31.6 47.4#

71 15.4 31.2 46.8#



#44

2,2,4-Trimethylpentane

Concen: 0.063 ppbv

RT: 7.311 min Scan# 1464

Delta R.T. 0.019 min

Lab File: VL039985.D

Acq: 12 Dec 2022 21:05

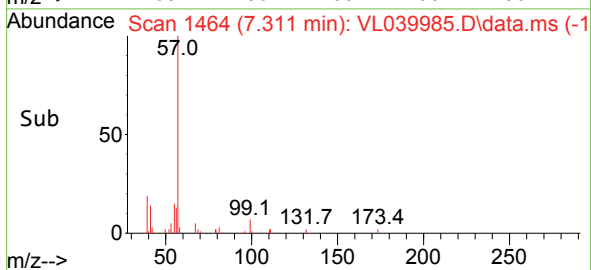
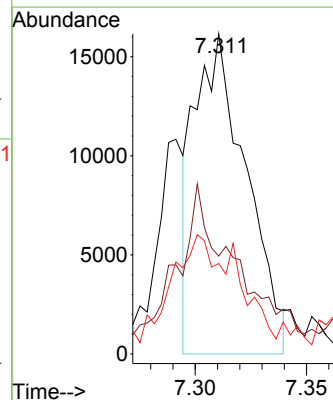
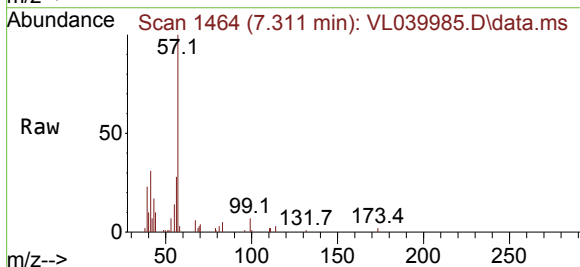
Tgt Ion: 57 Resp: 26100

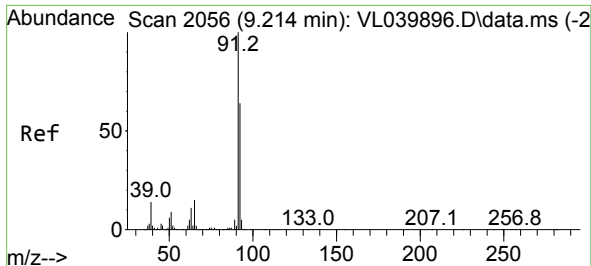
Ion Ratio Lower Upper

57 100

41 0.0 26.2 39.2#

56 0.0 25.5 38.3#

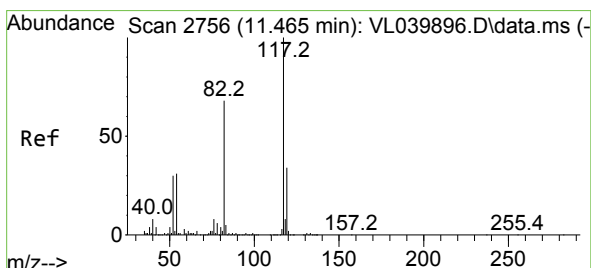
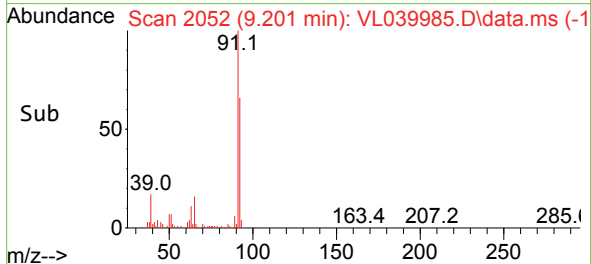
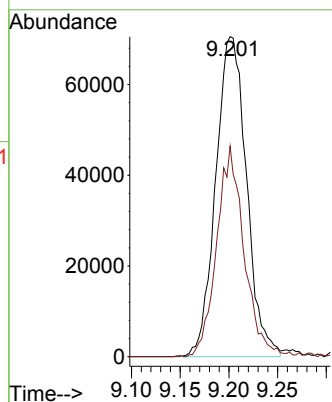
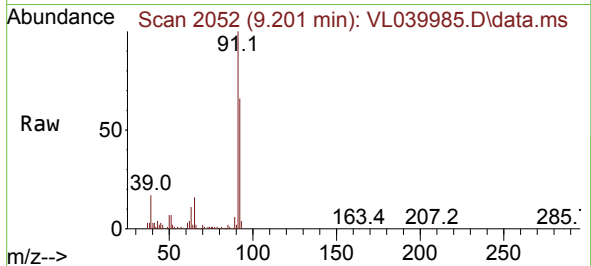




#53
Toluene
Concen: 0.549 ppbv
RT: 9.201 min Scan# 2056
Delta R.T. 0.016 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

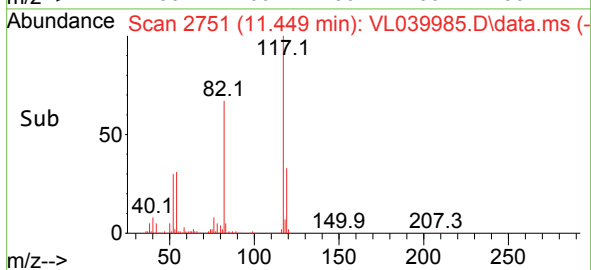
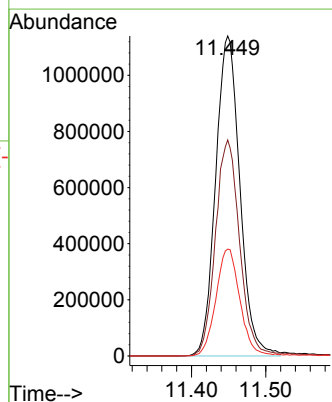
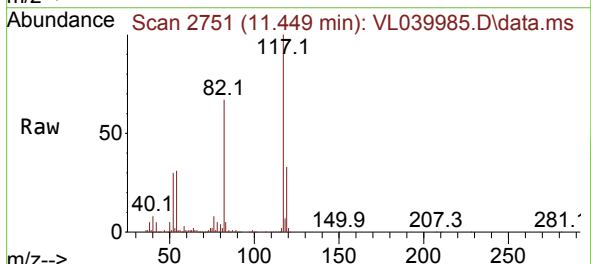
Instrument :
MSVOA_L
ClientSampleId :
OA-1

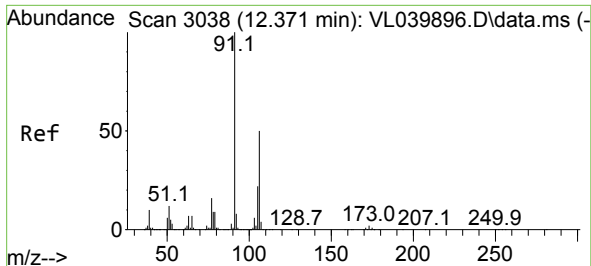
Tgt Ion: 91 Resp: 154885
Ion Ratio Lower Upper
91 100
92 59.4 49.8 74.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. 0.016 min
Lab File: VL039985.D
Acq: 12 Dec 2022 21:05

Tgt Ion: 117 Resp: 2586816
Ion Ratio Lower Upper
117 100
82 68.6 52.3 78.5
119 33.3 25.7 38.5





#59

m/p-Xylene

Concen: 0.036 ppbv

RT: 12.359 min Scan# 3038

Delta R.T. 0.019 min

Lab File: VL039985.D

Acq: 12 Dec 2022 21:05

Instrument :

MSVOA_L

ClientSampleId :

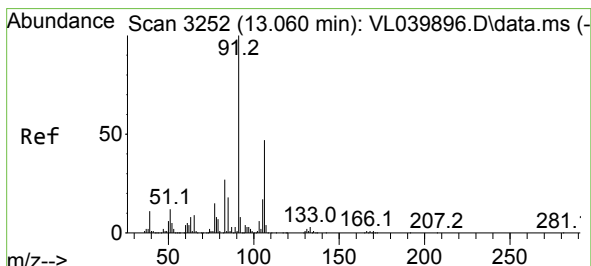
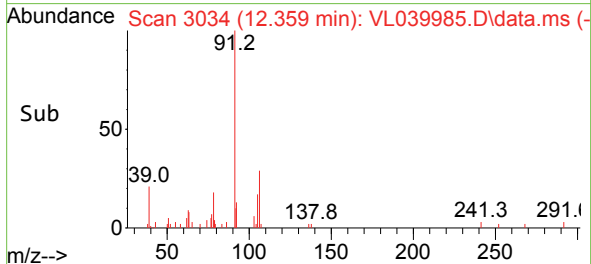
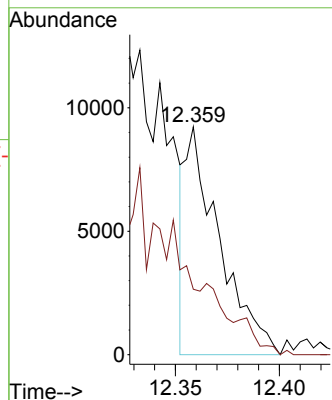
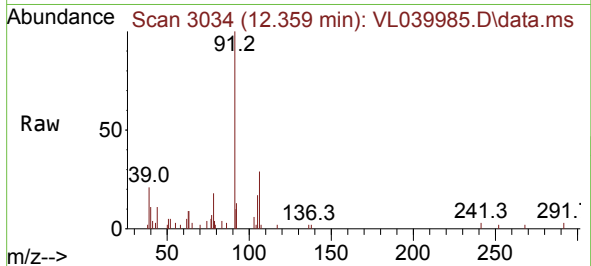
OA-1

Tgt Ion: 91 Resp: 10550

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#



#60

o-Xylene

Concen: 0.042 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. 0.019 min

Lab File: VL039985.D

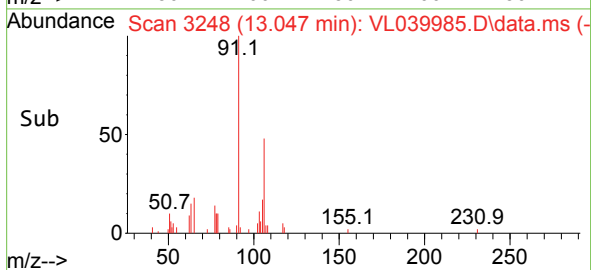
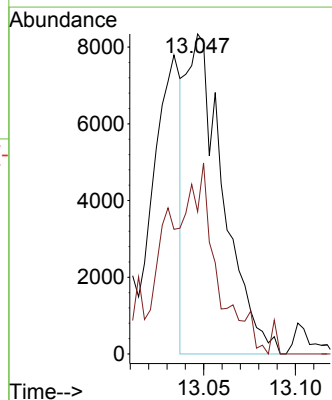
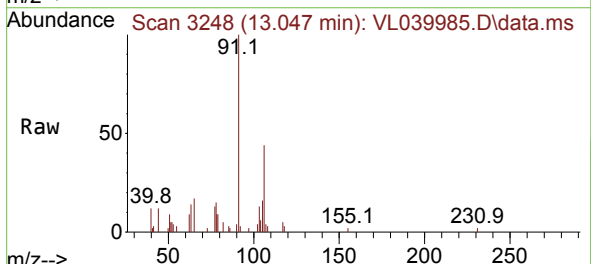
Acq: 12 Dec 2022 21:05

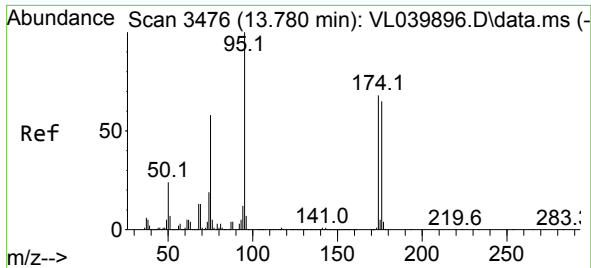
Tgt Ion: 91 Resp: 11771

Ion Ratio Lower Upper

91 100

106 84.9 23.2 69.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.760 ppbv
 RT: 13.760 min Scan# 34
 Delta R.T. 0.019 min
 Lab File: VL039985.D
 Acq: 12 Dec 2022 21:05

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Tgt Ion: 95 Resp: 2125923
 Ion Ratio Lower Upper
 95 100
 174 60.7 53.7 80.5
 175 4.3 4.0 6.0

