

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040870.D
 Acq On : 15 Nov 2023 15:47
 Operator : SY/MD
 Sample : 05277-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-4

Quant Time: Nov 16 05:53:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

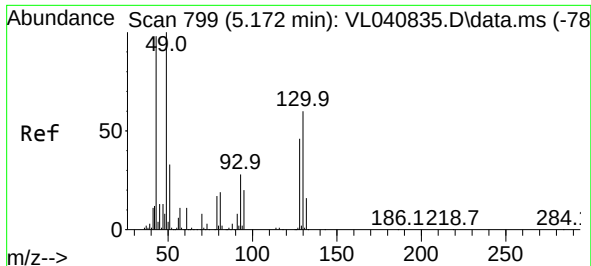
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.192	49	1076934	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.642	114	2750469	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2446418	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	1916100	10.004	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.755	85	23659	0.108	ppbv	96
3) Chlorodifluoromethane	2.681	51	28362	0.165	ppbv #	81
4) Chloromethane	2.822	50	49959	0.808	ppbv #	42
7) Chloroethane	3.218	64	2580	0.121	ppbv	97
9) Propene	2.722	41	169418	2.924	ppbv	96
11) Trichlorofluoromethane	3.578	101	7852	0.047	ppbv #	77
13) Ethanol	3.259	45	2316035	205.834	ppbv #	100
15) Acetone	3.481	43	2781388	24.250	ppbv	92
16) 1,3-Butadiene	2.993	39	60148	1.037	ppbv #	41
17) tert-Butyl alcohol	3.902	59	58545	0.597	ppbv	96
19) Isopropyl Alcohol	3.600	45	209651	3.037	ppbv #	1
20) Methylene Chloride	3.944	84	594716	12.564	ppbv	97
25) Ethyl Acetate	5.211	43	278692	1.173	ppbv #	78
26) Hexane	5.211	57	383756	3.651	ppbv #	42
27) Carbon Disulfide	4.134	76	228823	1.717	ppbv	96
34) 2-Butanone	4.793	43	132088	0.943	ppbv #	87
36) Benzene	6.365	78	134856	0.604	ppbv	99
37) 1,2-Dichloroethane	5.803	62	6604	0.050	ppbv #	96
39) 1,2-Dichloropropane	6.645	63	668643	7.555	ppbv #	23
40) 1,4-Dioxane	7.282	88	2036	0.058	ppbv #	1
41) Tetrahydrofuran	5.211	42	146279	1.696	ppbv #	51
53) Toluene	9.201	91	117090	0.477	ppbv	99

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

Quant Time: Nov 16 05:53:17 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Nov 13 15:42:46 2023
Response via : Initial Calibration

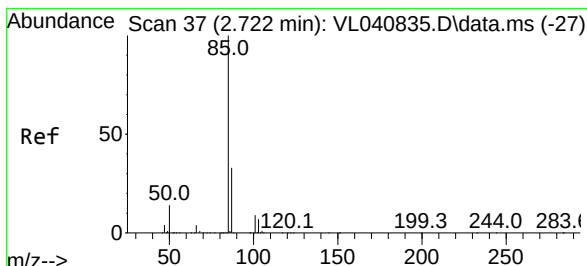
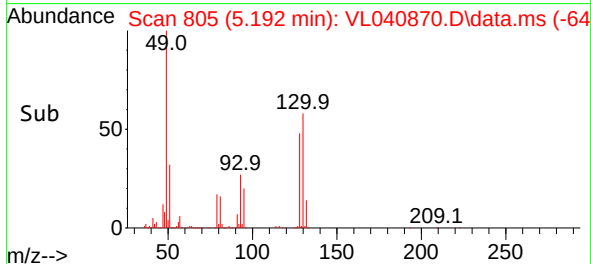
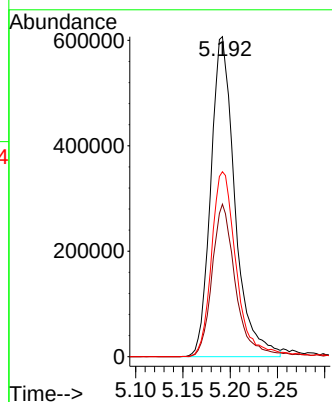
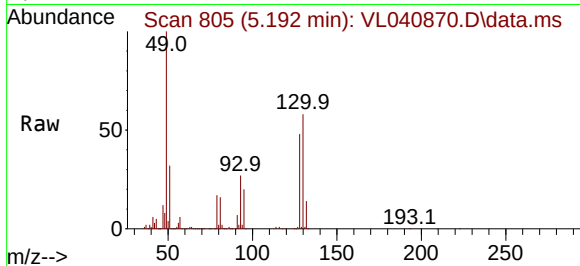




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. 0.020 min
 Lab File: VL040870.D
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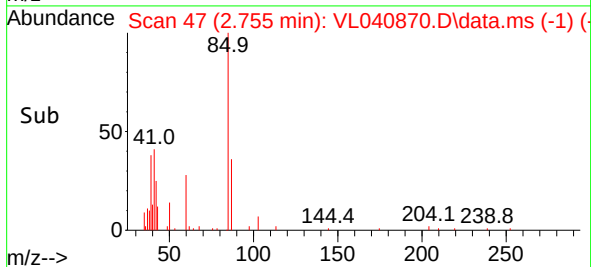
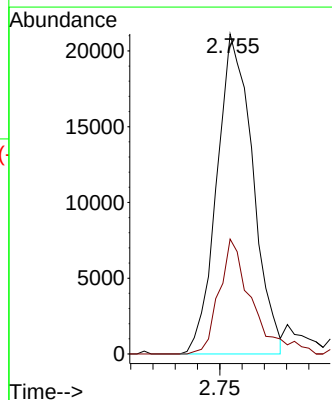
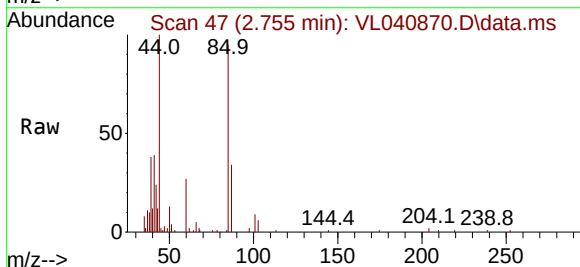
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-4

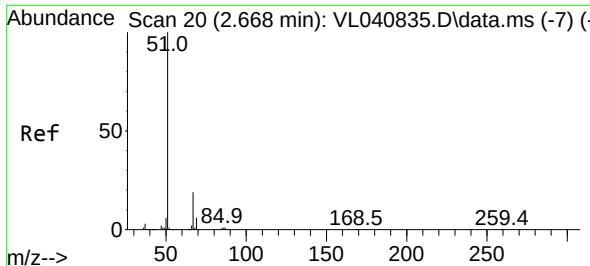
Tgt Ion: 49 Resp: 1076934
 Ion Ratio Lower Upper
 49 100
 128 47.2 23.8 71.2
 130 60.8 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.108 ppbv
 RT: 2.755 min Scan# 47
 Delta R.T. 0.032 min
 Lab File: VL040870.D
 Acq: 15 Nov 2023 15:47

Tgt Ion: 85 Resp: 23659
 Ion Ratio Lower Upper
 85 100
 87 35.9 26.7 40.1

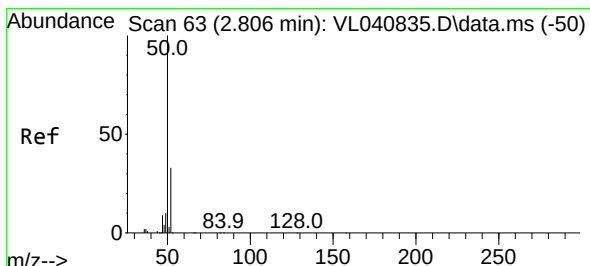
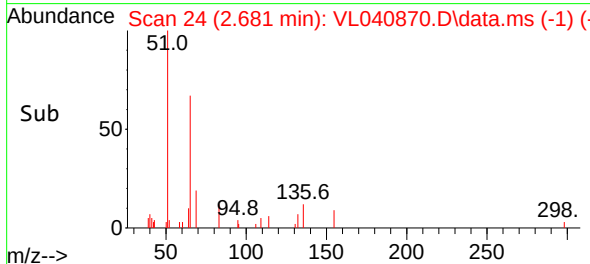
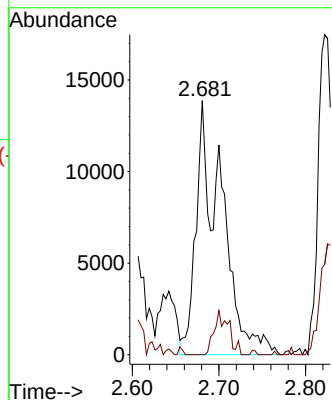
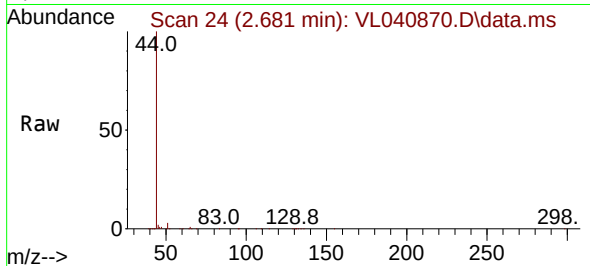




#3
Chlorodifluoromethane
Concen: 0.165 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.013 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

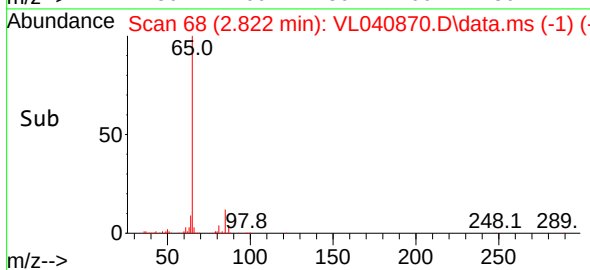
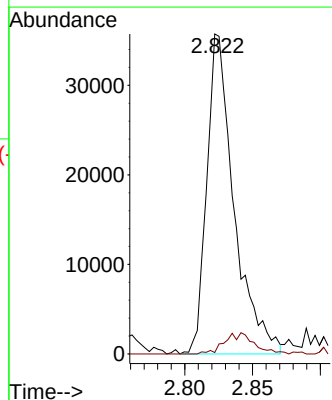
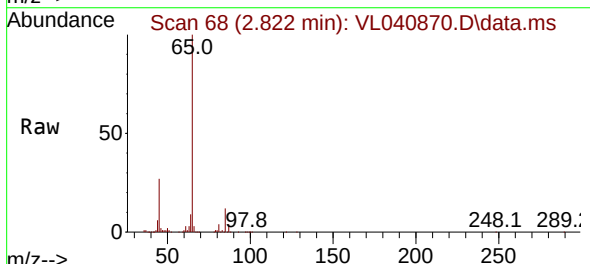
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ClientSampleId :
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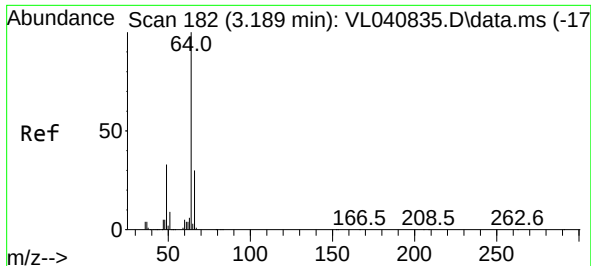
Tgt Ion: 51 Resp: 28362
Ion Ratio Lower Upper
51 100
67 10.2 15.0 22.4#



#4
Chloromethane
Concen: 0.808 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.016 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

Tgt Ion: 50 Resp: 49959
Ion Ratio Lower Upper
50 100
52 0.5 26.5 39.7#

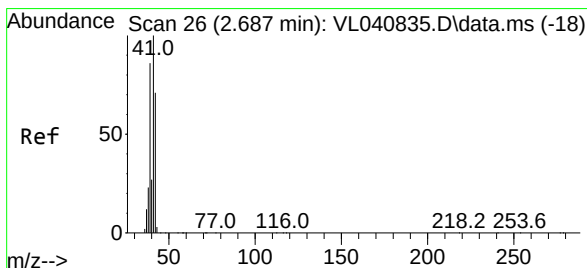
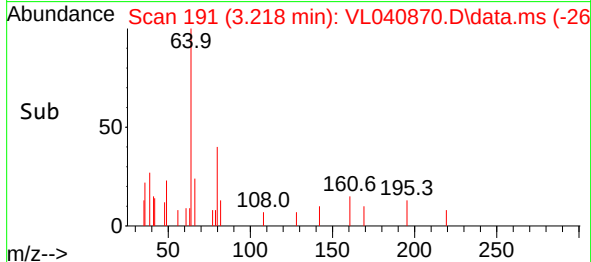
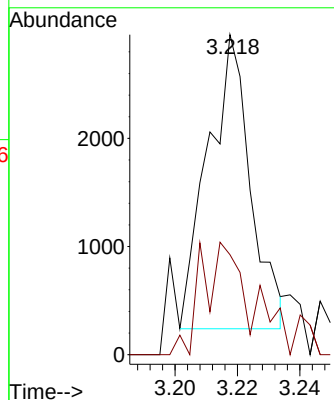
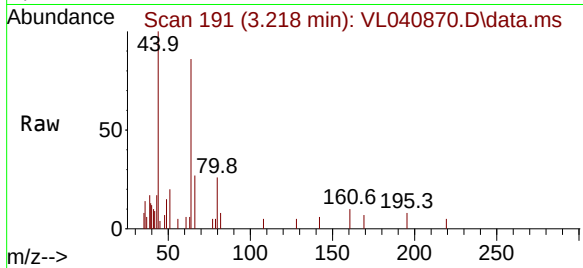




#7
Chloroethane
Concen: 0.121 ppbv
RT: 3.218 min Scan# 14
Delta R.T. 0.029 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

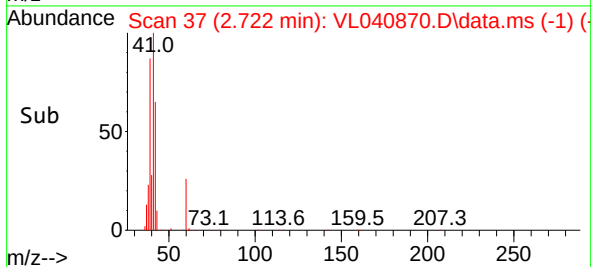
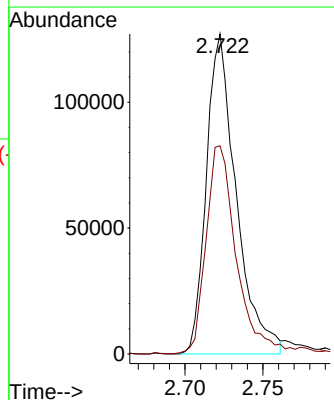
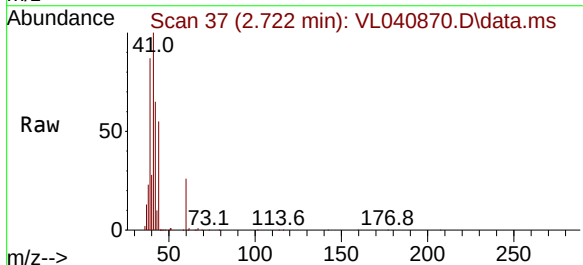
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MSVOA_L
ClientSampleId :
NT-SS-4

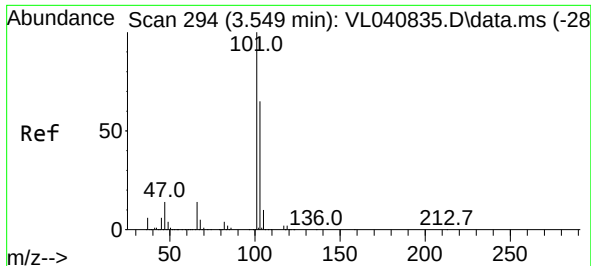
Tgt Ion: 64 Resp: 2580
Ion Ratio Lower Upper
64 100
66 31.3 23.8 35.6



#9
Propene
Concen: 2.924 ppbv
RT: 2.722 min Scan# 37
Delta R.T. 0.035 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

Tgt Ion: 41 Resp: 169418
Ion Ratio Lower Upper
41 100
42 67.5 56.5 84.7

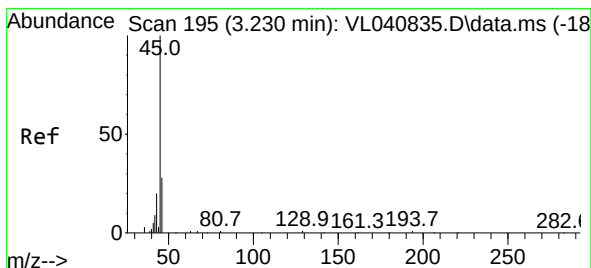
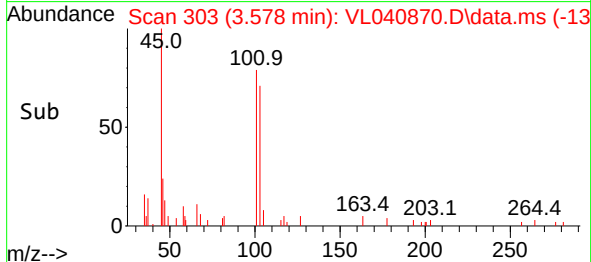
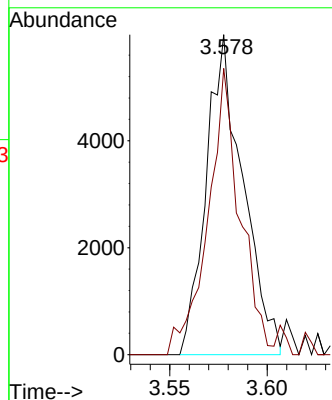
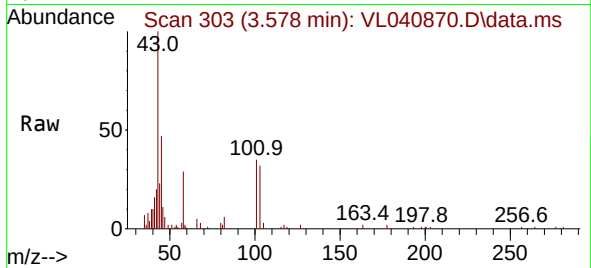




#11
 Trichlorofluoromethane
 Concen: 0.047 ppbv
 RT: 3.578 min Scan# 303
 Delta R.T. 0.029 min
 Lab File: VL040870.D
 Acq: 15 Nov 2023 15:47

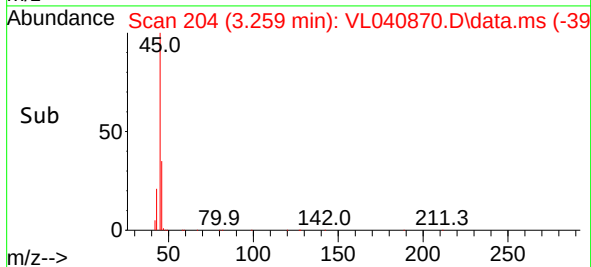
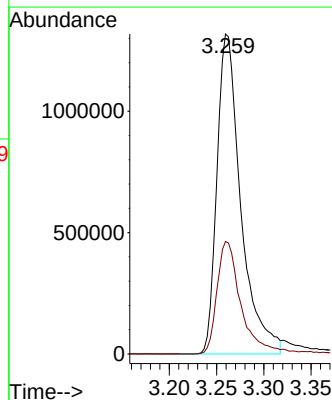
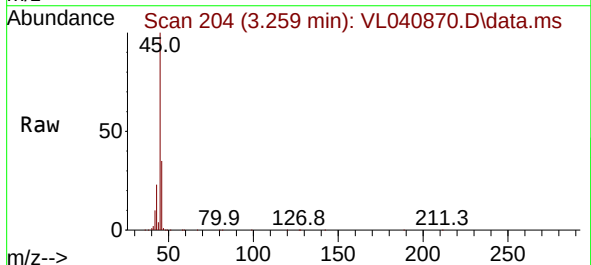
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-4

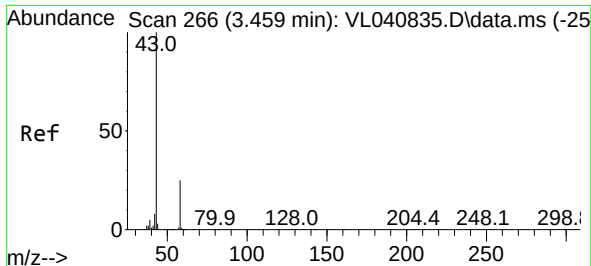
Tgt Ion:101 Resp: 7852
 Ion Ratio Lower Upper
 101 100
 103 82.6 51.8 77.8#



#13
 Ethanol
 Concen: 205.834 ppbv
 RT: 3.259 min Scan# 204
 Delta R.T. 0.029 min
 Lab File: VL040870.D
 Acq: 15 Nov 2023 15:47

Tgt Ion: 45 Resp: 2316035
 Ion Ratio Lower Upper
 45 100
 46 36.6 0.0 0.0#

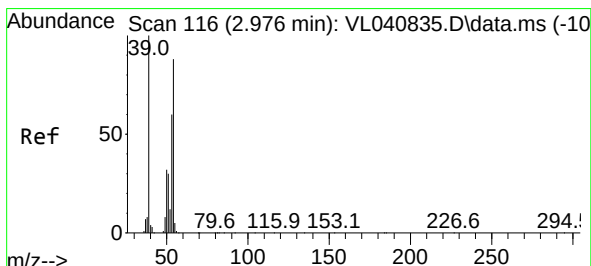
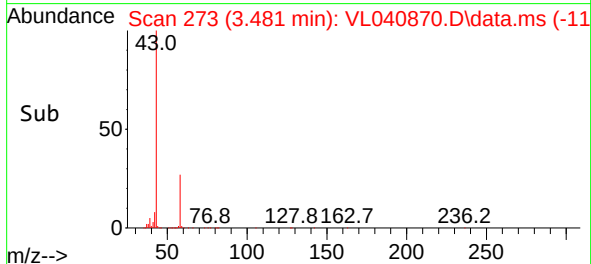
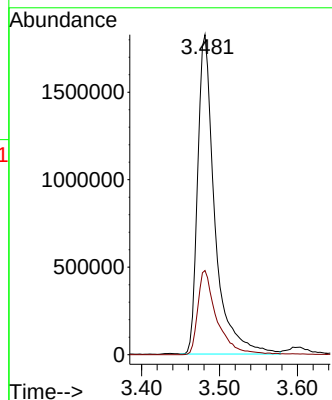
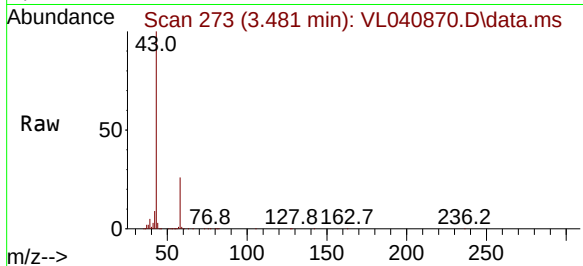




#15
Acetone
Concen: 24.250 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

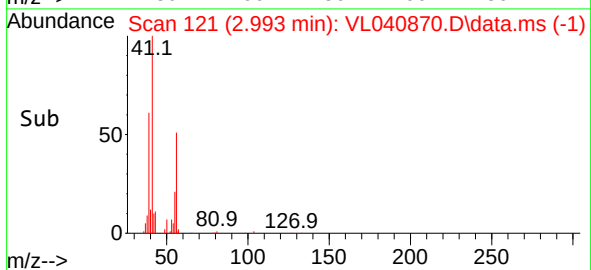
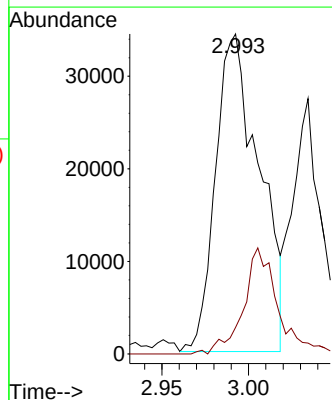
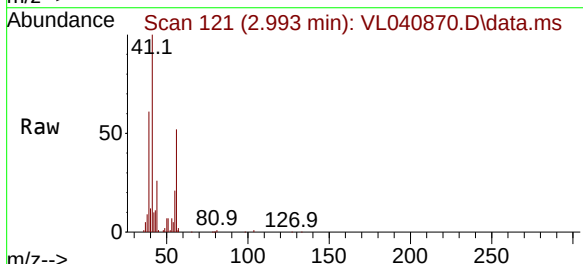
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ClientSampleId :
NT-SS-4

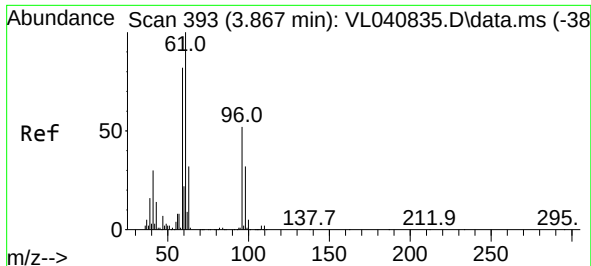
Tgt Ion: 43 Resp: 2781388
Ion Ratio Lower Upper
43 100
58 30.1 20.9 31.3



#16
1,3-Butadiene
Concen: 1.037 ppbv
RT: 2.993 min Scan# 121
Delta R.T. 0.016 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

Tgt Ion: 39 Resp: 60148
Ion Ratio Lower Upper
39 100
54 26.3 61.8 92.6#





#17

tert-Butyl alcohol

Concen: 0.597 ppbv

RT: 3.902 min Scan# 404

Delta R.T. 0.035 min

Lab File: VL040870.D

Acq: 15 Nov 2023 15:47

Instrument :

MSVOA_L

ClientSampleId :

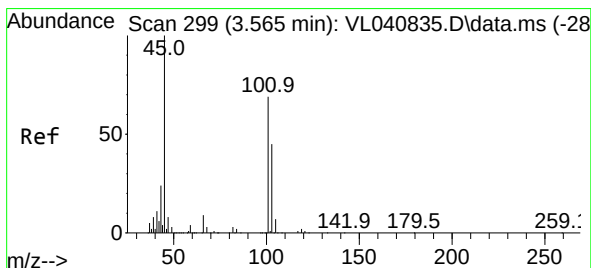
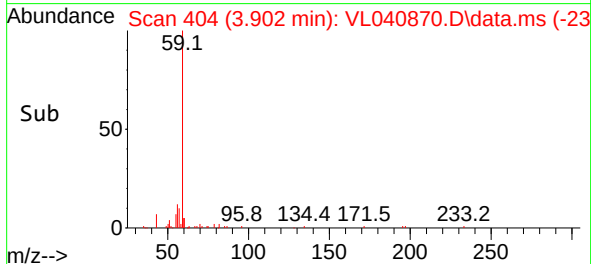
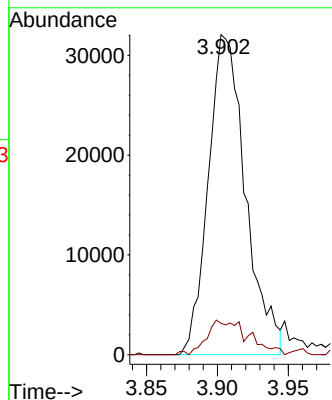
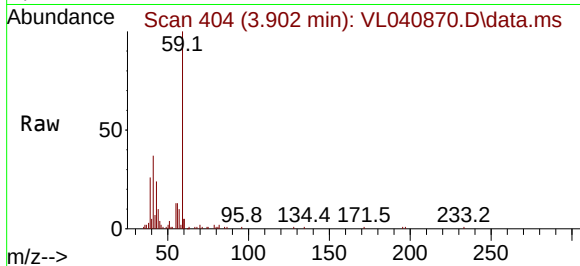
NT-SS-4

Tgt Ion: 59 Resp: 58545

Ion Ratio Lower Upper

59 100

57 12.7 9.0 13.4



#19

Isopropyl Alcohol

Concen: 3.037 ppbv

RT: 3.600 min Scan# 310

Delta R.T. 0.035 min

Lab File: VL040870.D

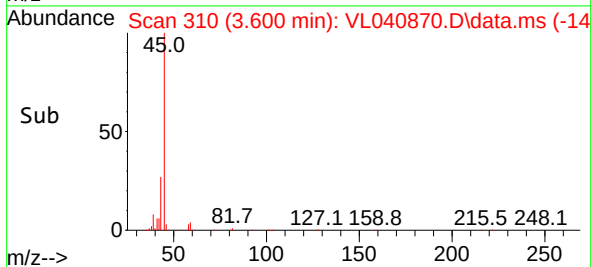
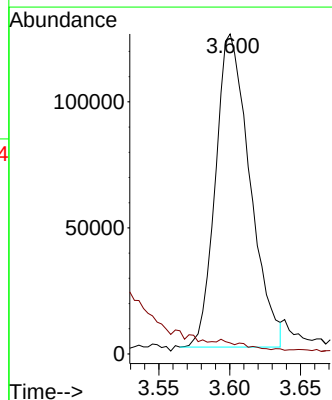
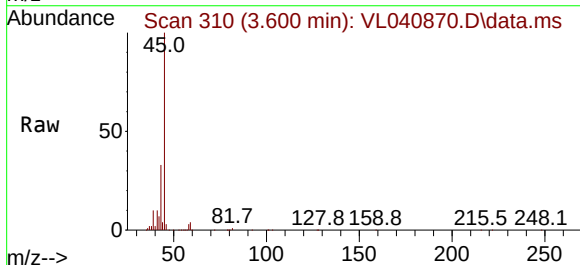
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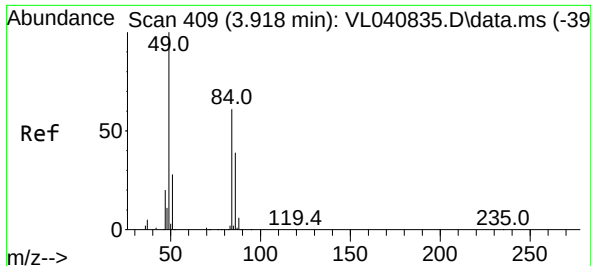
Tgt Ion: 45 Resp: 209651

Ion Ratio Lower Upper

45 100

58 398.7 1.6 2.4#

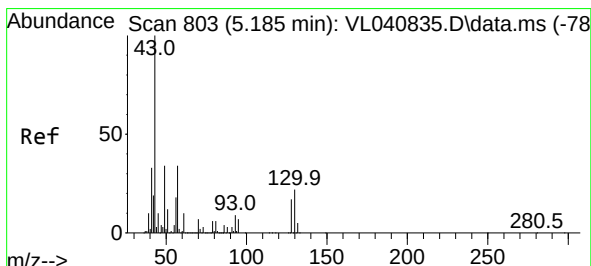
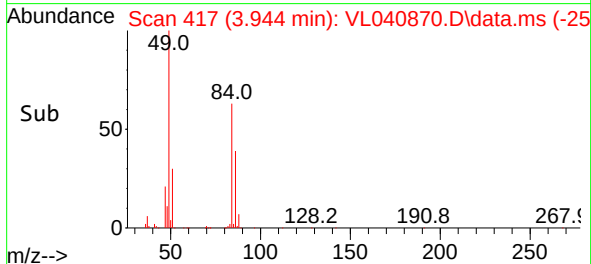
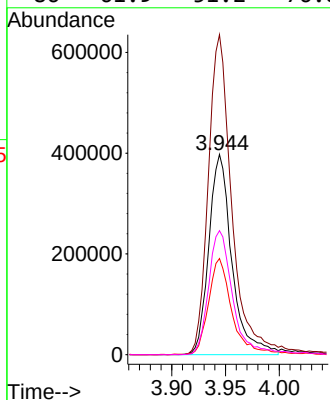
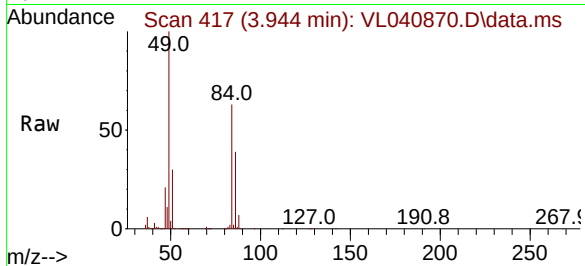




#20
Methylene Chloride
Concen: 12.564 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.026 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

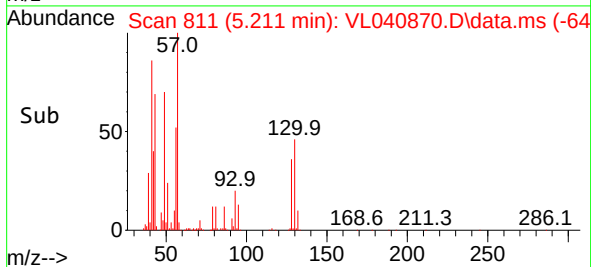
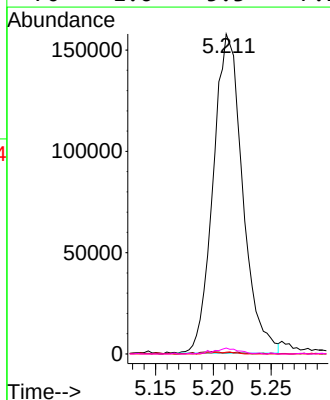
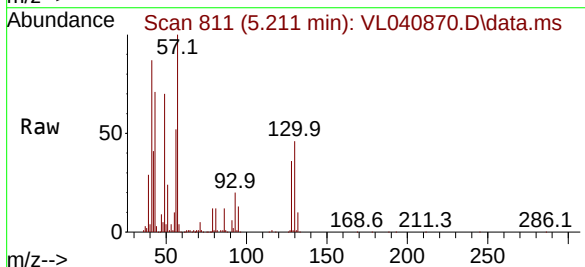
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-4

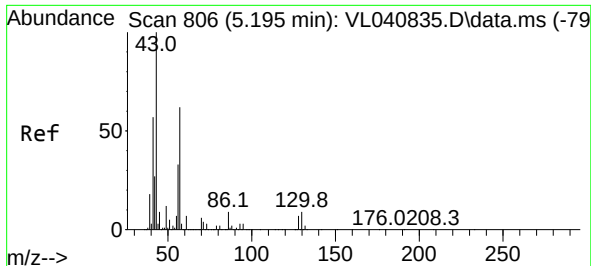
Tgt Ion: 84 Resp: 594716
Ion Ratio Lower Upper
84 100
49 159.6 131.0 196.4
51 47.7 36.9 55.3
86 61.9 51.2 76.8



#25
Ethyl Acetate
Concen: 1.173 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.026 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

Tgt Ion: 43 Resp: 278692
Ion Ratio Lower Upper
43 100
45 0.8 8.1 12.1#
61 0.5 7.8 11.6#
70 1.6 5.3 7.9#

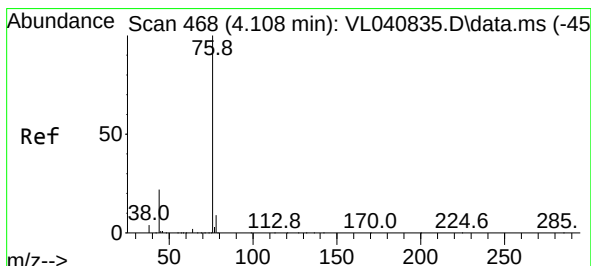
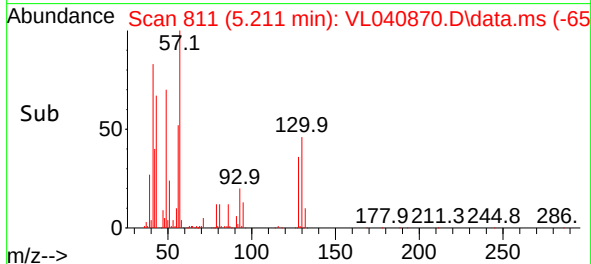
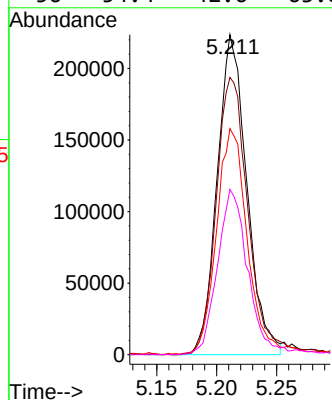
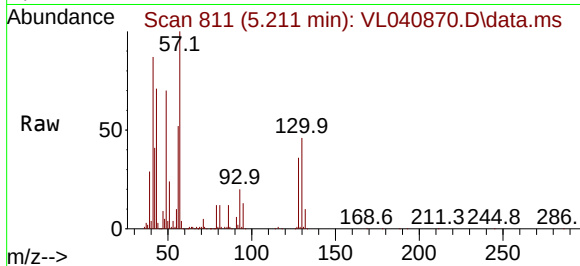




#26
Hexane
Concen: 3.651 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.016 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

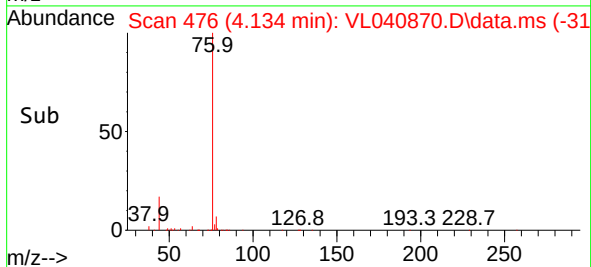
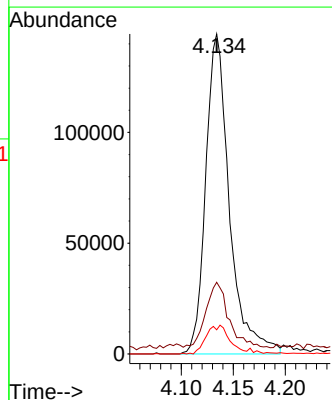
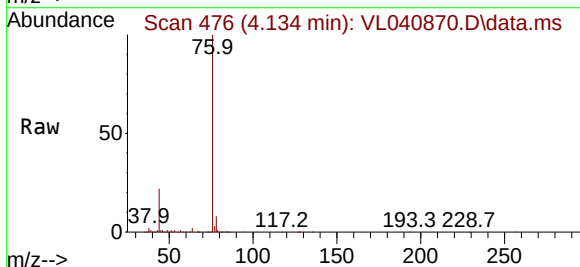
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-4

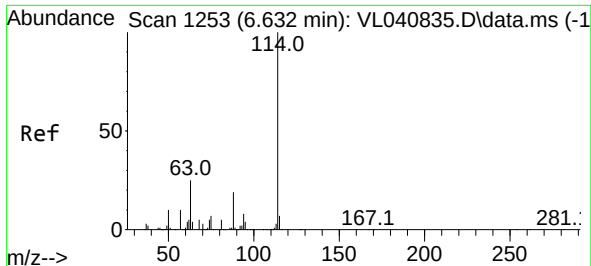
Tgt Ion: 57 Resp: 383756
Ion Ratio Lower Upper
57 100
41 95.0 75.4 113.0
43 75.6 185.9 278.9#
56 54.4 42.6 63.8



#27
Carbon Disulfide
Concen: 1.717 ppbv
RT: 4.134 min Scan# 476
Delta R.T. 0.026 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

Tgt Ion: 76 Resp: 228823
Ion Ratio Lower Upper
76 100
44 23.4 16.7 25.1
78 9.6 7.6 11.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL040870.D

Acq: 15 Nov 2023 15:47

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-4

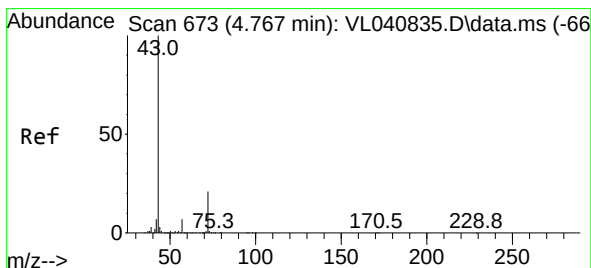
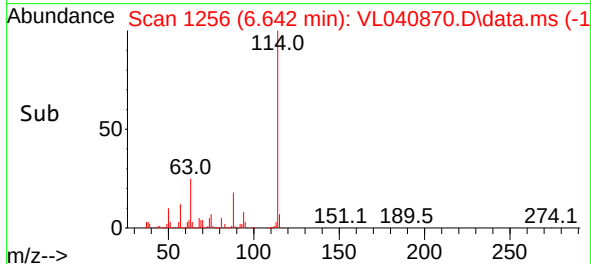
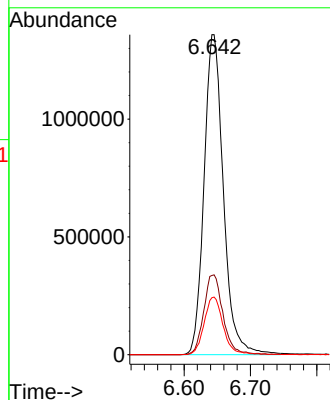
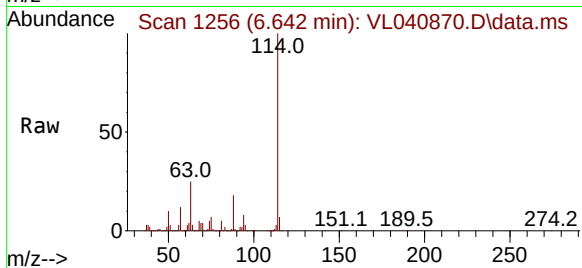
Tgt Ion:114 Resp: 2750469

Ion Ratio Lower Upper

114 100

63 25.1 20.9 31.3

88 17.9 14.3 21.5



#34

2-Butanone

Concen: 0.943 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.026 min

Lab File: VL040870.D

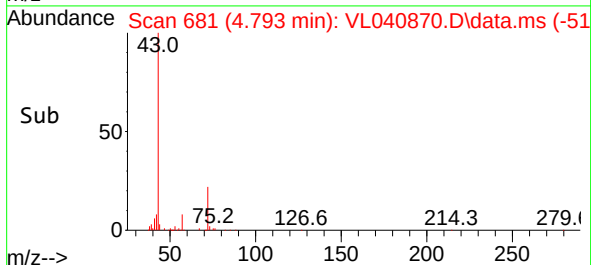
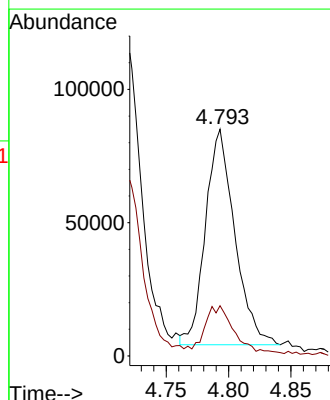
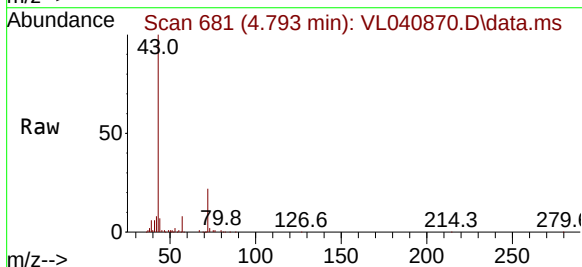
Acq: 15 Nov 2023 15:47

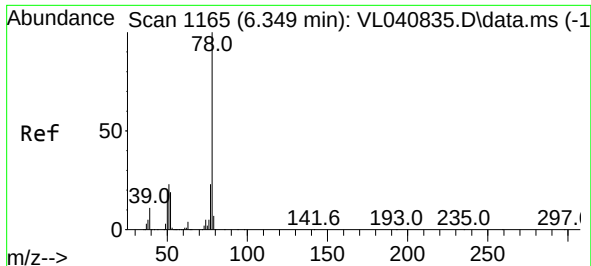
Tgt Ion: 43 Resp: 132088

Ion Ratio Lower Upper

43 100

72 27.5 17.2 25.8#

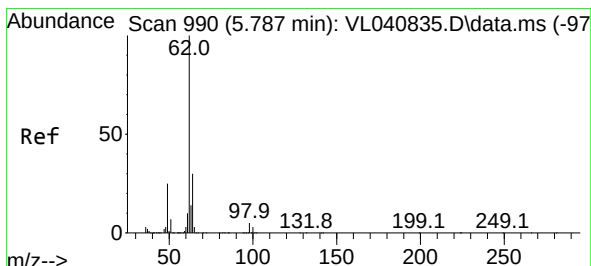
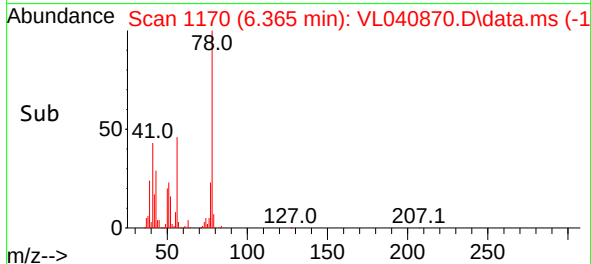
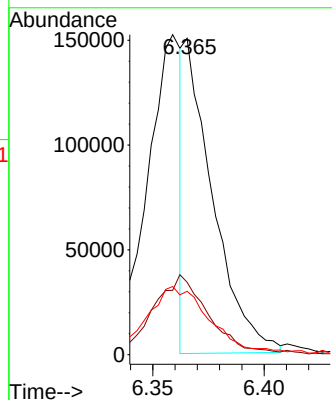
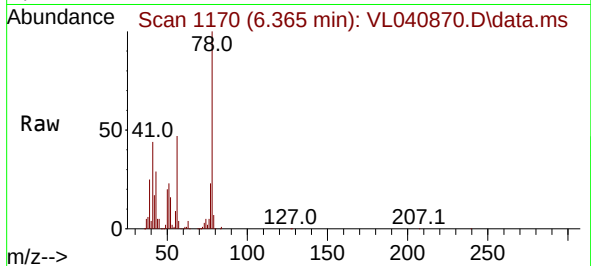




#36
Benzene
Concen: 0.604 ppbv
RT: 6.365 min Scan# 1165
Delta R.T. 0.016 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

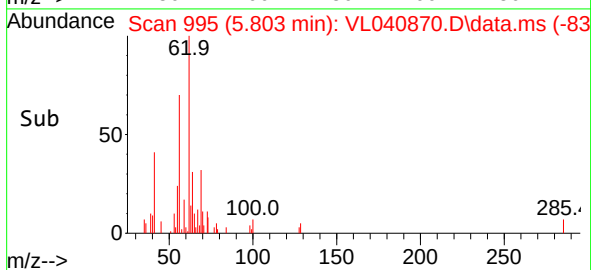
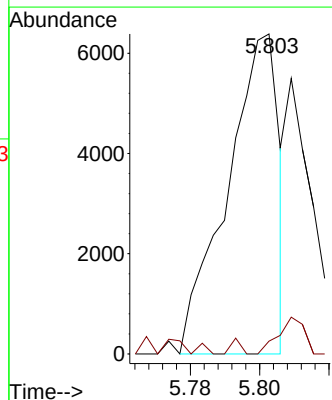
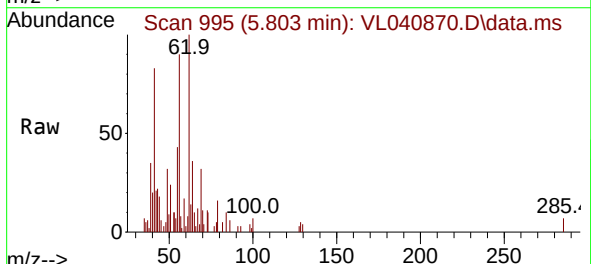
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-4

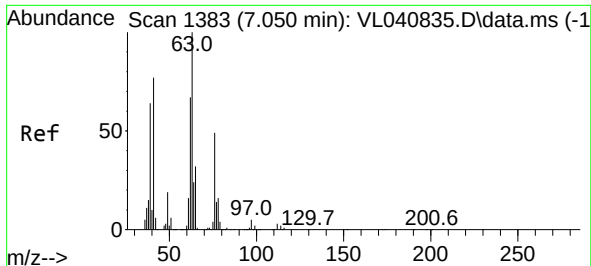
Tgt Ion: 78 Resp: 134856
Ion Ratio Lower Upper
78 100
77 22.7 18.4 27.6
50 19.1 16.2 24.2



#37
1,2-Dichloroethane
Concen: 0.050 ppbv
RT: 5.803 min Scan# 995
Delta R.T. 0.016 min
Lab File: VL040870.D
Acq: 15 Nov 2023 15:47

Tgt Ion: 62 Resp: 6604
Ion Ratio Lower Upper
62 100
98 4.5 4.6 6.8#





#39

1,2-Dichloropropane

Concen: 7.555 ppbv

RT: 6.645 min Scan# 1

Delta R.T. -0.405 min

Lab File: VL040870.D

Acq: 15 Nov 2023 15:47

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-4

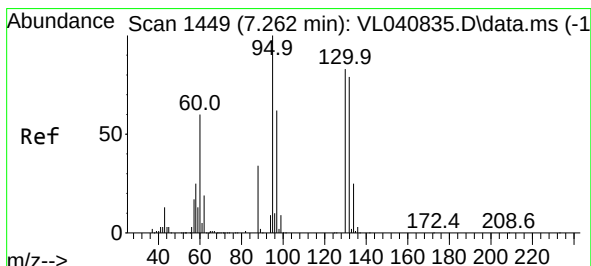
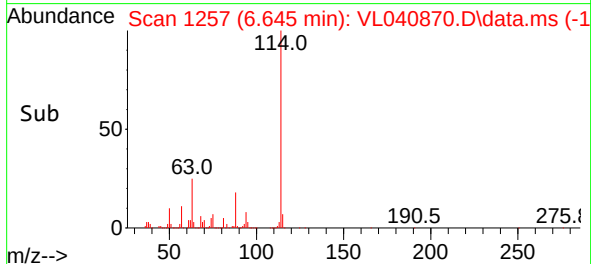
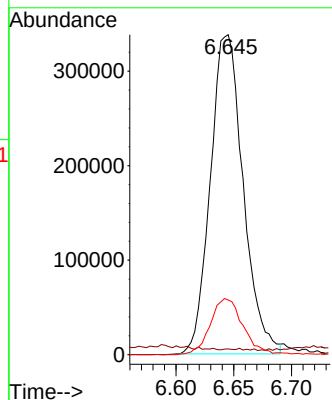
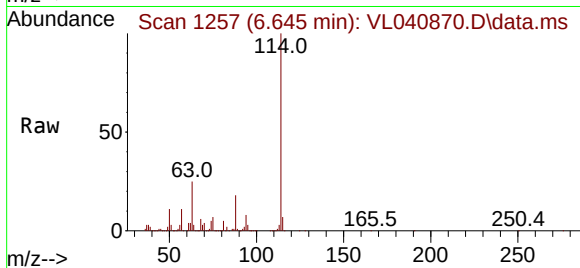
Tgt Ion: 63 Resp: 668643

Ion Ratio Lower Upper

63 100

41 0.3 61.5 92.3#

62 17.0 53.9 80.9#



#40

1,4-Dioxane

Concen: 0.058 ppbv

RT: 7.282 min Scan# 1455

Delta R.T. 0.019 min

Lab File: VL040870.D

Acq: 15 Nov 2023 15:47

Tgt Ion: 88 Resp: 2036

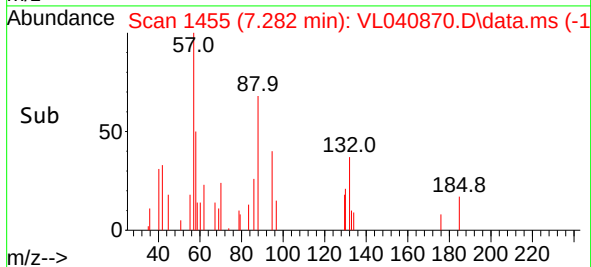
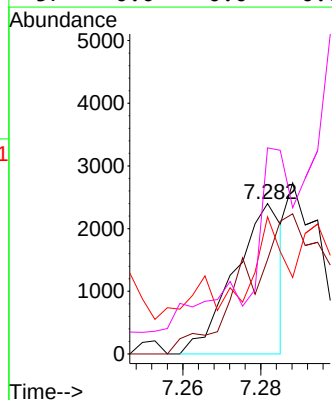
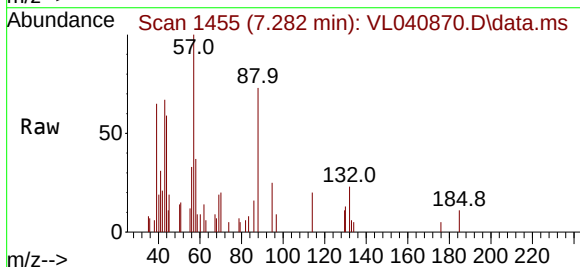
Ion Ratio Lower Upper

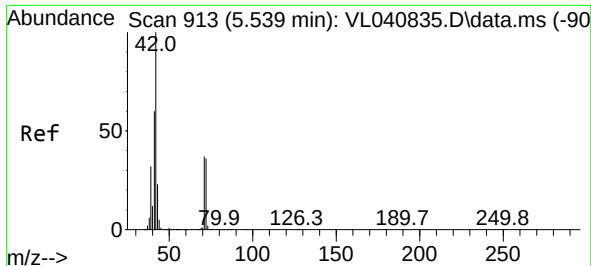
88 100

58 0.0 101.0 151.6#

43 0.0 0.0 0.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 1.696 ppbv

RT: 5.211 min Scan# 81

Delta R.T. -0.328 min

Lab File: VL040870.D

Acq: 15 Nov 2023 15:47

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-4

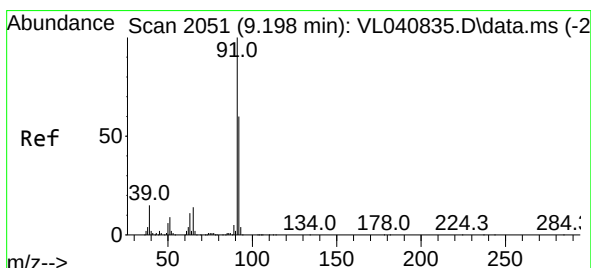
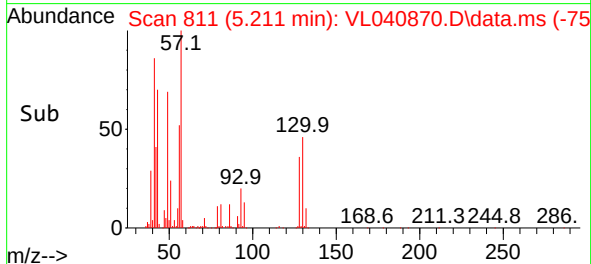
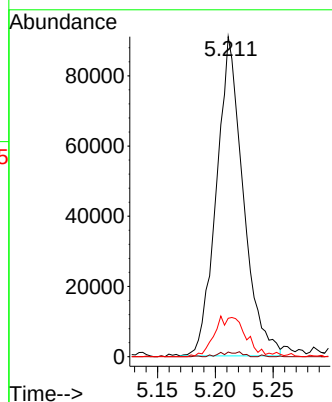
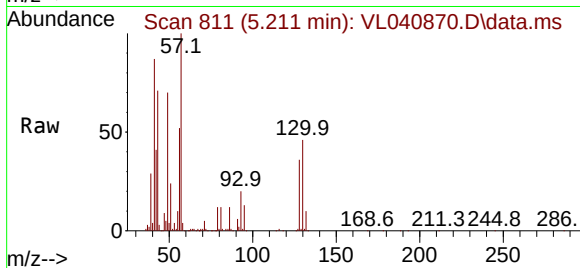
Tgt Ion: 42 Resp: 146279

Ion Ratio Lower Upper

42 100

72 1.4 30.8 46.2#

71 15.5 30.0 45.0#



#53

Toluene

Concen: 0.477 ppbv

RT: 9.201 min Scan# 2052

Delta R.T. 0.003 min

Lab File: VL040870.D

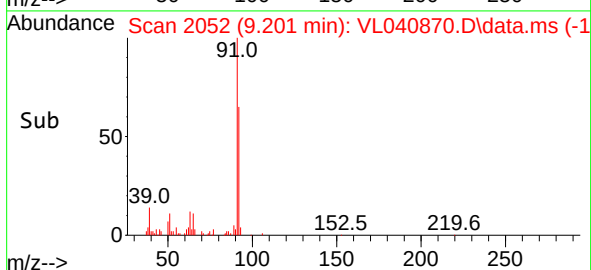
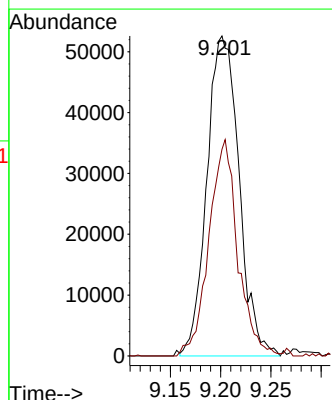
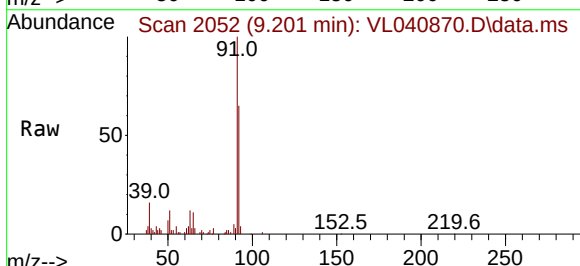
Acq: 15 Nov 2023 15:47

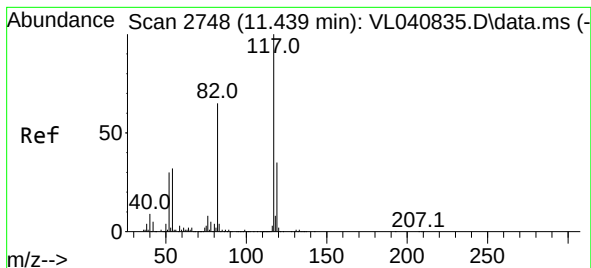
Tgt Ion: 91 Resp: 117090

Ion Ratio Lower Upper

91 100

92 60.9 49.4 74.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.442 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL040870.D

Acq: 15 Nov 2023 15:47

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-4

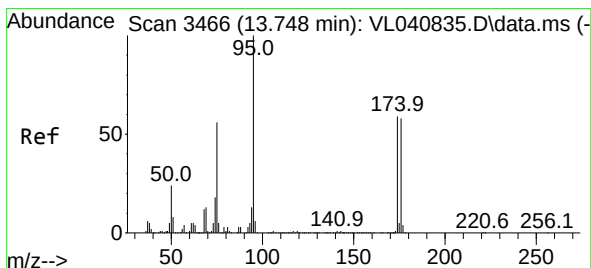
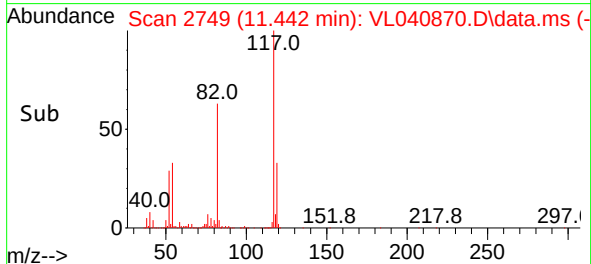
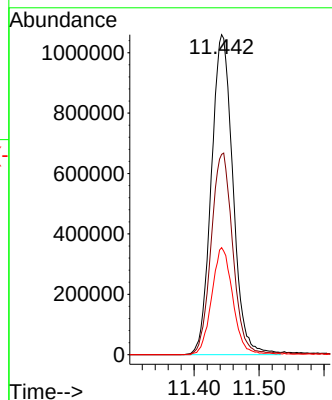
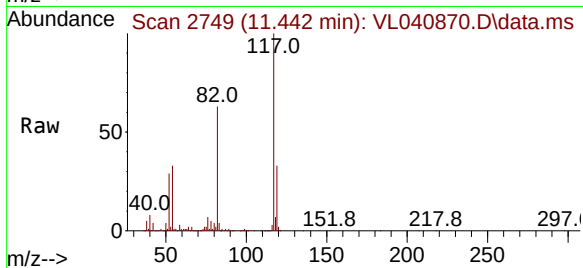
Tgt Ion:117 Resp: 2446418

Ion Ratio Lower Upper

117 100

82 64.3 50.6 75.8

119 33.2 23.3 34.9



#68

1-Bromo-4-Fluorobenzene

Concen: 10.004 ppbv

RT: 13.748 min Scan# 3466

Delta R.T. 0.000 min

Lab File: VL040870.D

Acq: 15 Nov 2023 15:47

Tgt Ion: 95 Resp: 1916100

Ion Ratio Lower Upper

95 100

174 61.7 47.5 71.3

175 4.5 3.6 5.4

