

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040868.D
 Acq On : 15 Nov 2023 14:04
 Operator : SY/MD
 Sample : 05277-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-2

Quant Time: Nov 16 05:52:22 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)

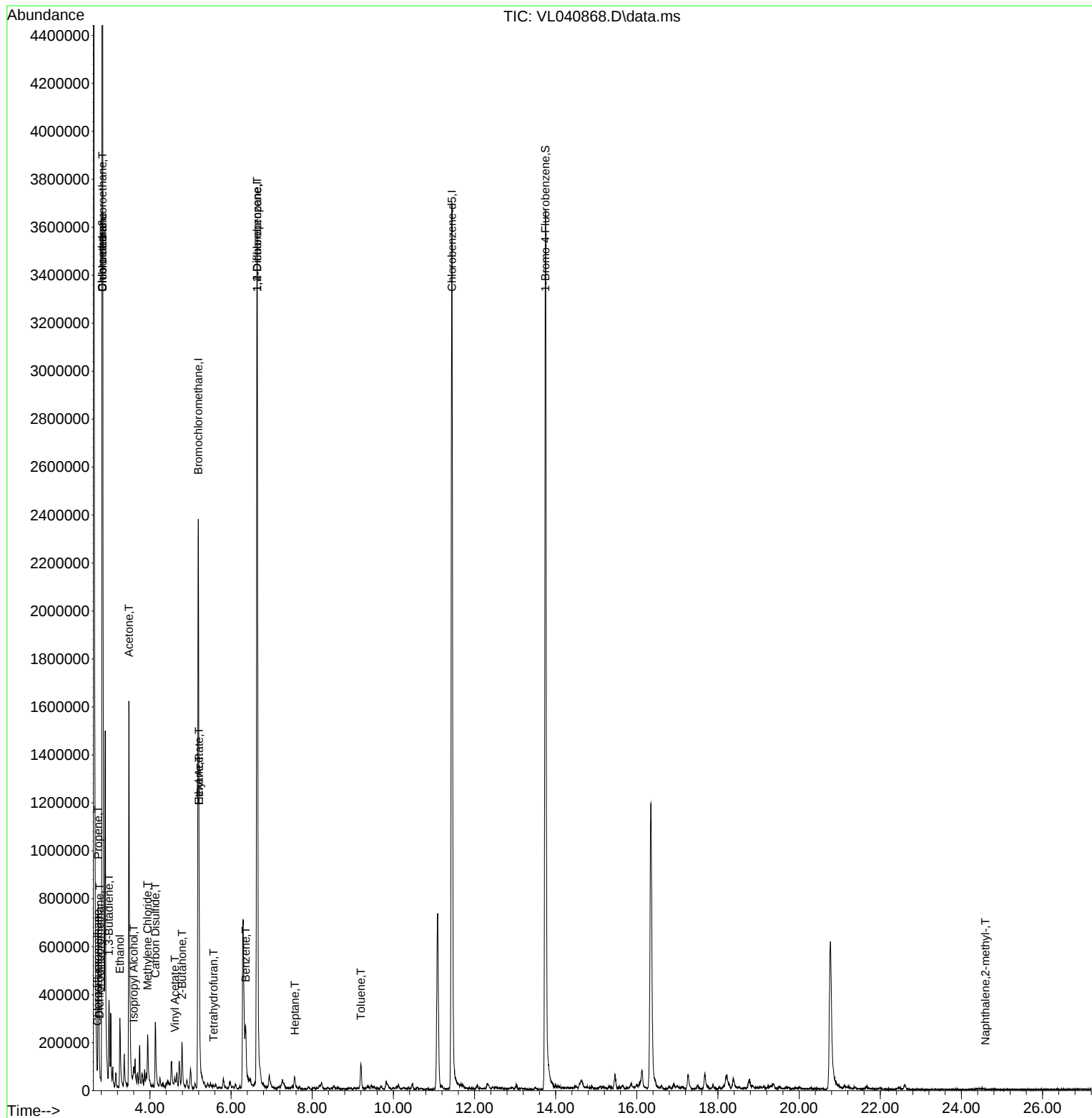
Internal Standards						
1) Bromochloromethane	5.192	49	1083008	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.642	114	2783950	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2481101	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.748	95	1919579	9.882	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	23066	0.105	ppbv	98
3) Chlorodifluoromethane	2.703	51	19303	0.112	ppbv #	90
4) Chloromethane	2.829	50	200048	3.217	ppbv #	44
7) Chloroethane	2.825	64	921410	43.030	ppbv	91
8) Dichlorotetrafluoroethane	2.829	85	1200269	7.571	ppbv #	15
9) Propene	2.726	41	302546	5.192	ppbv	91
10) Heptane	7.574	43	6896	0.048	ppbv #	1
13) Ethanol	3.259	45	287602	25.417	ppbv #	100
15) Acetone	3.481	43	1611069	13.967	ppbv	93
16) 1,3-Butadiene	2.993	39	109929	1.884	ppbv #	36
19) Isopropyl Alcohol	3.600	45	67649	0.975	ppbv #	94
20) Methylene Chloride	3.944	84	62143	1.305	ppbv	95
23) Vinyl Acetate	4.613	43	8049	0.054	ppbv #	1
25) Ethyl Acetate	5.211	43	77308	0.324	ppbv #	78
26) Hexane	5.211	57	167287	1.583	ppbv #	43
27) Carbon Disulfide	4.134	76	305616	2.280	ppbv	98
34) 2-Butanone	4.793	43	209037	1.474	ppbv #	91
36) Benzene	6.362	78	140966	0.624	ppbv	96
39) 1,2-Dichloropropane	6.642	63	674922	7.534	ppbv #	23
41) Tetrahydrofuran	5.568	42	2845	0.033	ppbv #	66
53) Toluene	9.201	91	78299	0.315	ppbv	97
80) Naphthalene,2-methyl-	24.593	142	1064	0.041	ppbv	90

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

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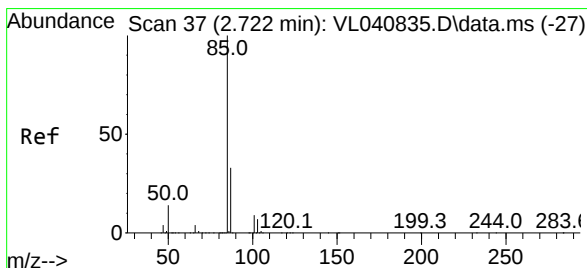
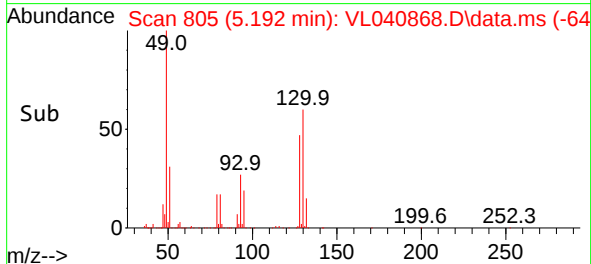
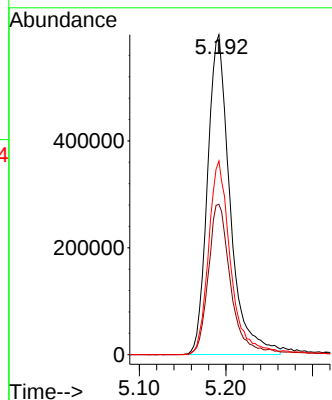
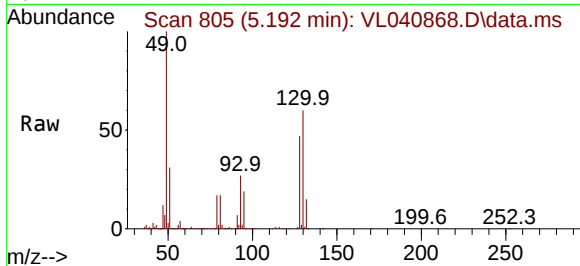




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. 0.020 min
 Lab File: VL040868.D
 Acq: 15 Nov 2023 14:04

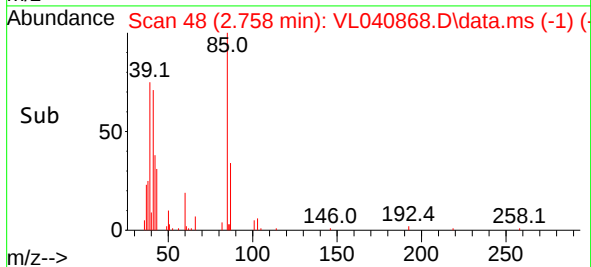
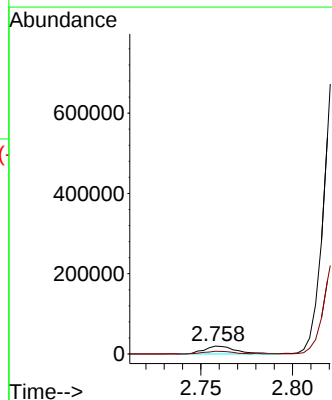
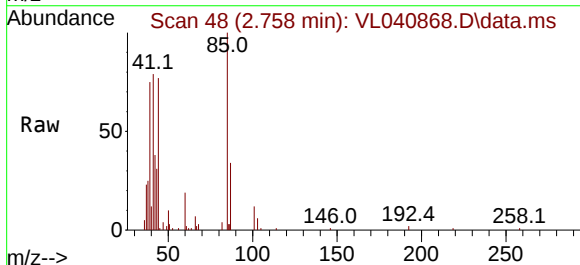
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-2

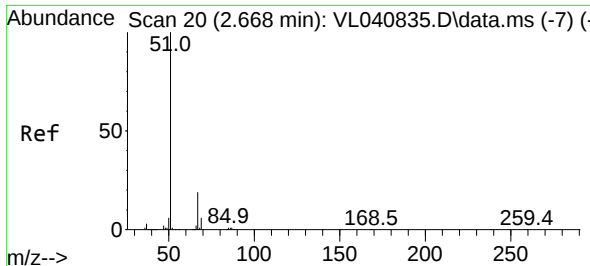
Tgt Ion: 49 Resp: 1083008
 Ion Ratio Lower Upper
 49 100
 128 48.2 23.8 71.2
 130 60.5 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.105 ppbv
 RT: 2.758 min Scan# 48
 Delta R.T. 0.035 min
 Lab File: VL040868.D
 Acq: 15 Nov 2023 14:04

Tgt Ion: 85 Resp: 23066
 Ion Ratio Lower Upper
 85 100
 87 34.6 26.7 40.1

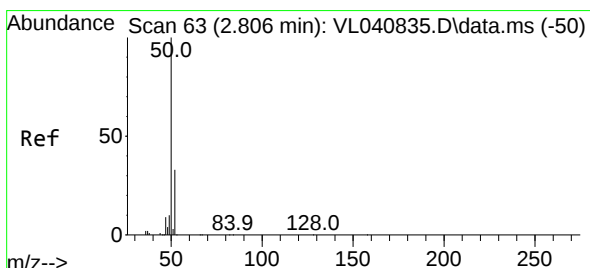
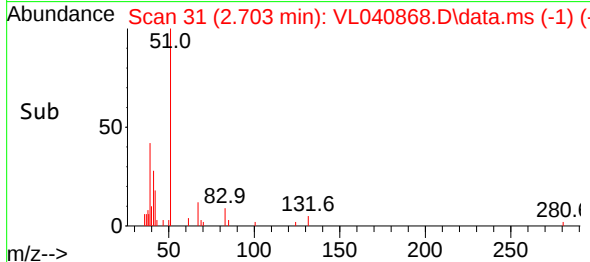
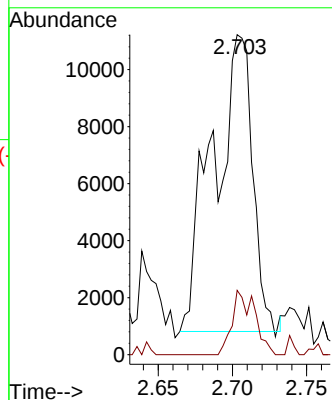
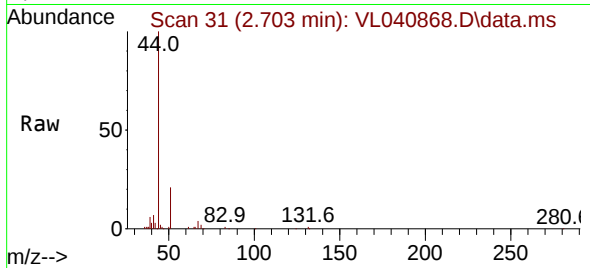




#3
Chlorodifluoromethane
Concen: 0.112 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.035 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

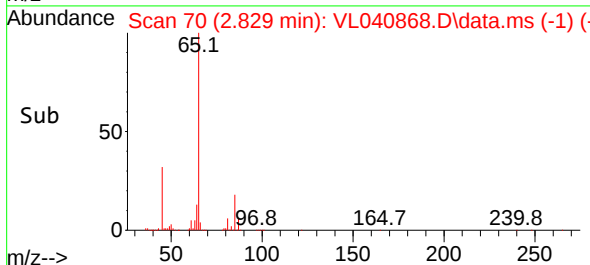
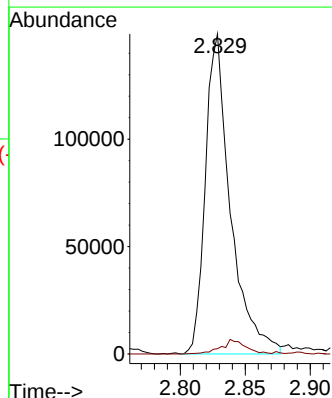
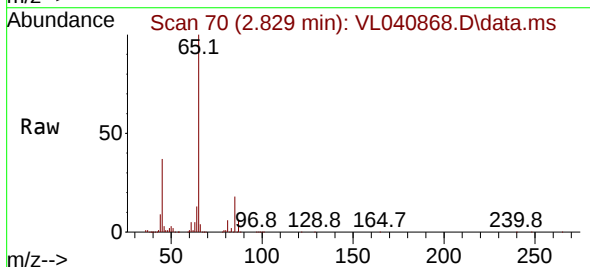
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2

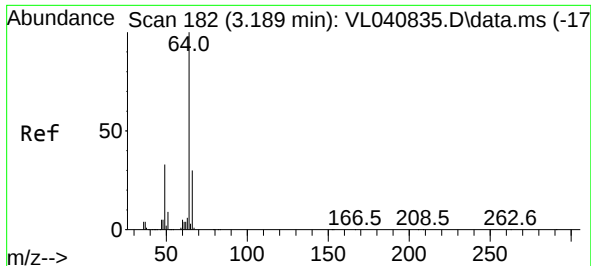
Tgt Ion: 51 Resp: 19303
Ion Ratio Lower Upper
51 100
67 14.1 15.0 22.4#



#4
Chloromethane
Concen: 3.217 ppbv
RT: 2.829 min Scan# 70
Delta R.T. 0.023 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Tgt Ion: 50 Resp: 200048
Ion Ratio Lower Upper
50 100
52 1.7 26.5 39.7#

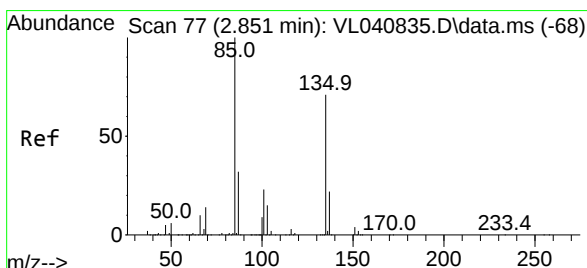
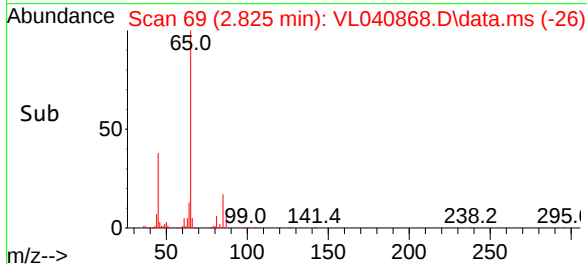
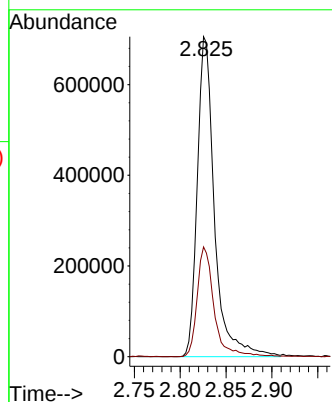
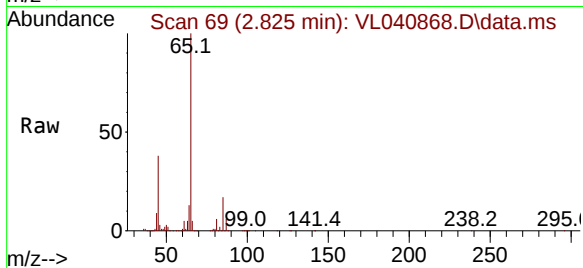




#7
Chloroethane
Concen: 43.030 ppbv
RT: 2.825 min Scan# 61
Delta R.T. -0.363 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

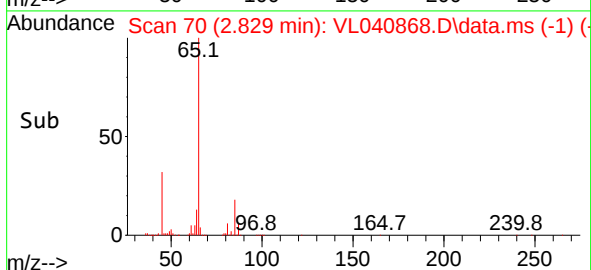
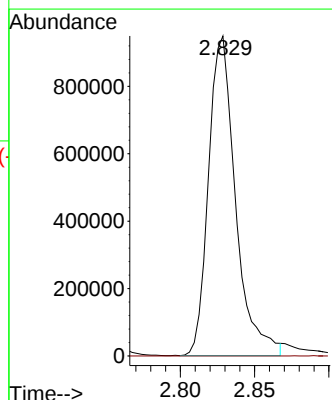
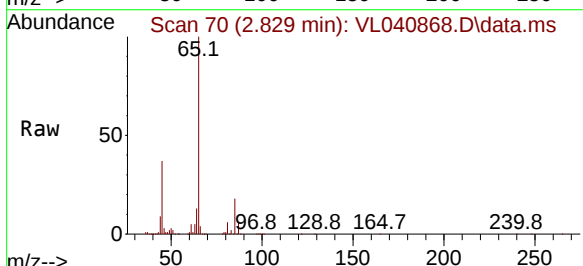
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2

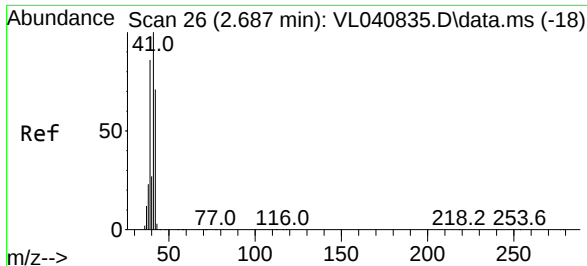
Tgt Ion: 64 Resp: 921410
Ion Ratio Lower Upper
64 100
66 34.3 23.8 35.6



#8
Dichlorotetrafluoroethane
Concen: 7.571 ppbv
RT: 2.829 min Scan# 70
Delta R.T. -0.022 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Tgt Ion: 85 Resp: 1200269
Ion Ratio Lower Upper
85 100
135 0.0 55.3 82.9#





#9

Propene

Concen: 5.192 ppbv

RT: 2.726 min Scan# 30

Delta R.T. 0.039 min

Lab File: VL040868.D

Acq: 15 Nov 2023 14:04

Instrument :

MSVOA_1

ClientSampleId :

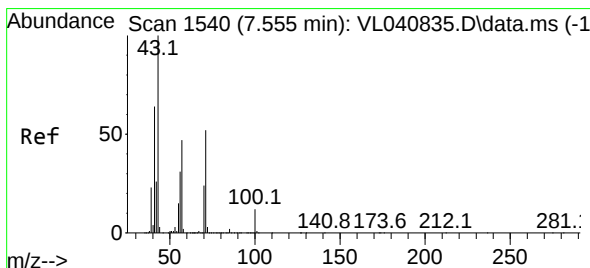
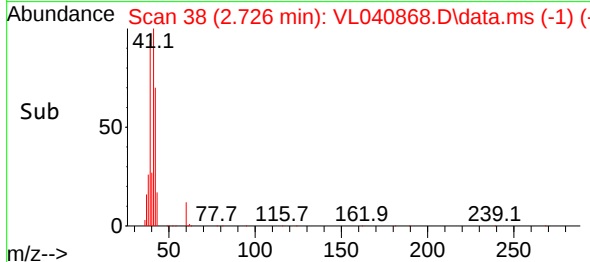
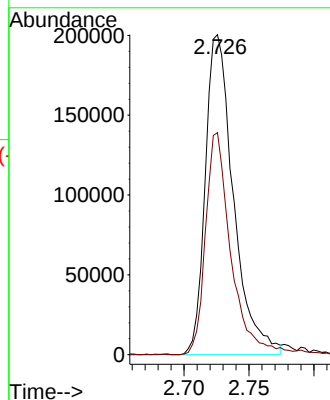
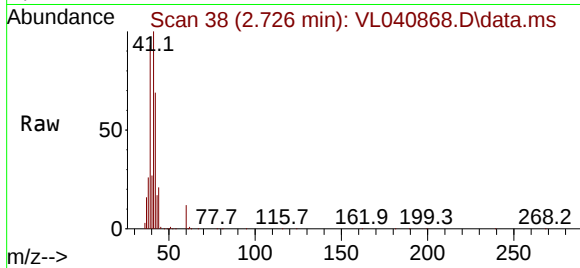
NT-SS-2

Tgt Ion: 41 Resp: 302546

Ion Ratio Lower Upper

41 100

42 63.3 56.5 84.7



#10

Heptane

Concen: 0.048 ppbv

RT: 7.574 min Scan# 1546

Delta R.T. 0.019 min

Lab File: VL040868.D

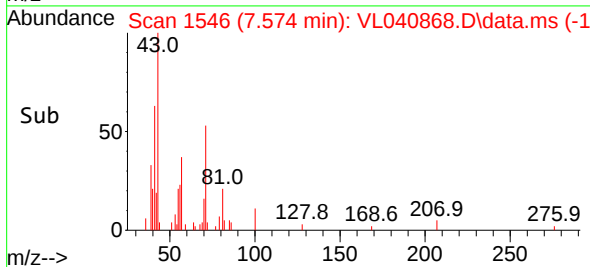
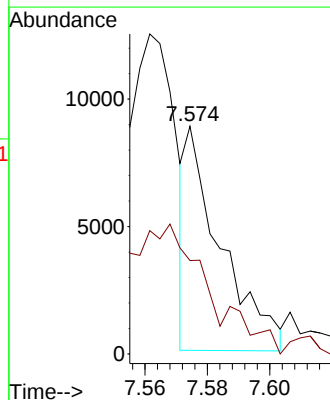
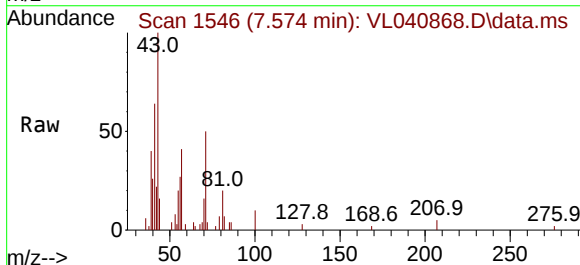
Acq: 15 Nov 2023 14:04

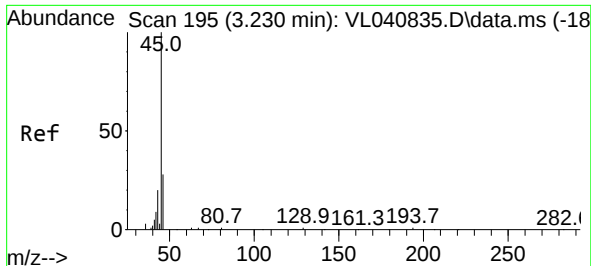
Tgt Ion: 43 Resp: 6896

Ion Ratio Lower Upper

43 100

57 169.5 39.4 59.0#

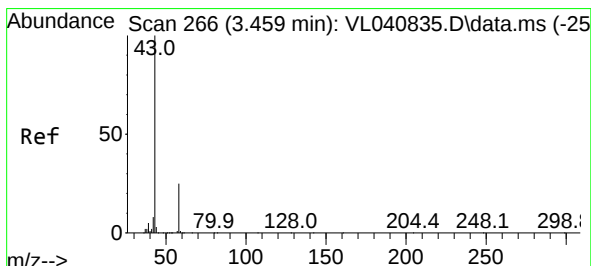
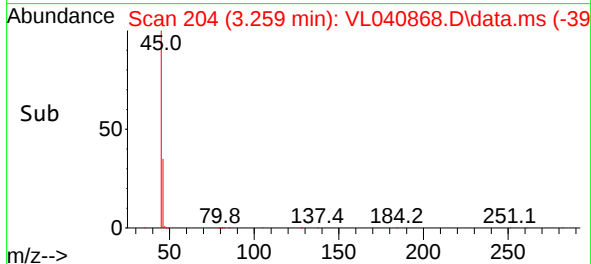
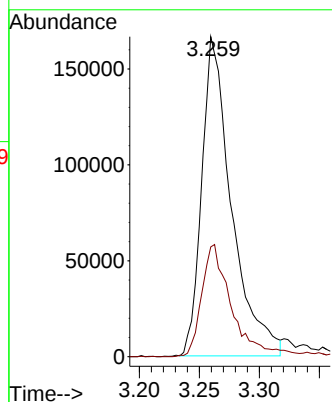
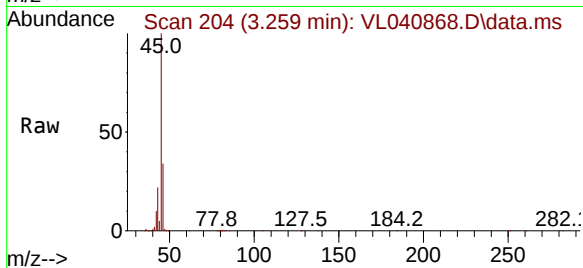




#13
Ethanol
Concen: 25.417 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.029 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

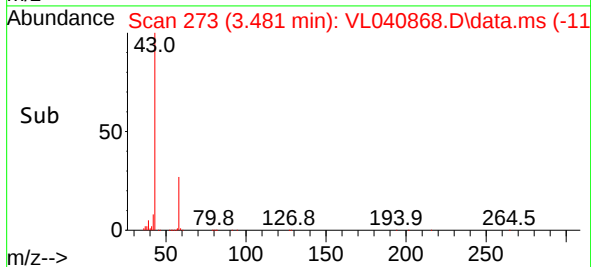
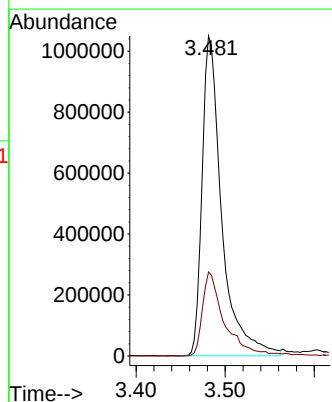
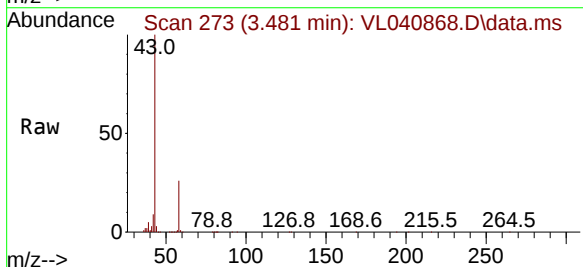
Instrument :
MSVOA_1
ClientSampleId :
NT-SS-2

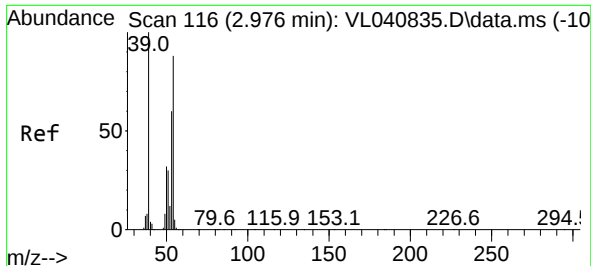
Tgt Ion: 45 Resp: 287602
Ion Ratio Lower Upper
45 100
46 36.6 0.0 0.0#



#15
Acetone
Concen: 13.967 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.023 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Tgt Ion: 43 Resp: 1611069
Ion Ratio Lower Upper
43 100
58 29.9 20.9 31.3

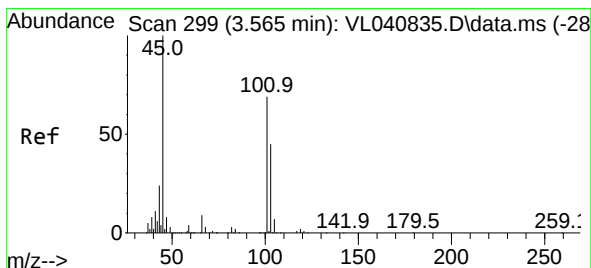
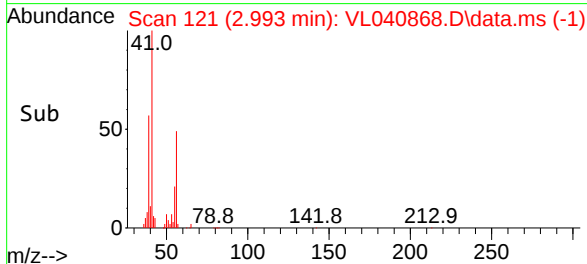
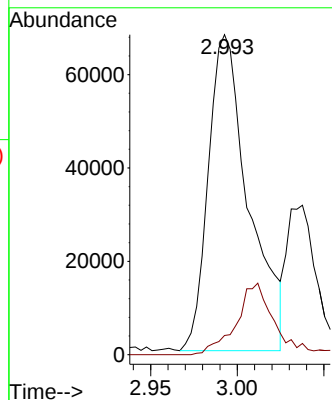
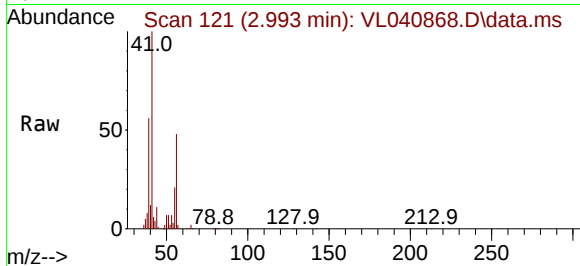




#16
1,3-Butadiene
Concen: 1.884 ppbv
RT: 2.993 min Scan# 116
Delta R.T. 0.016 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

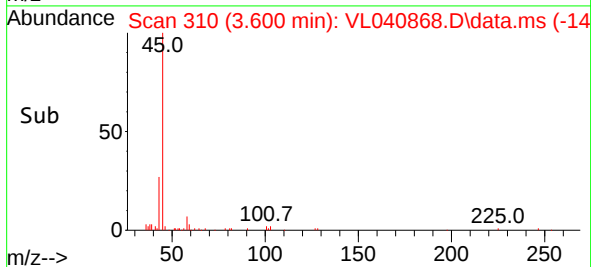
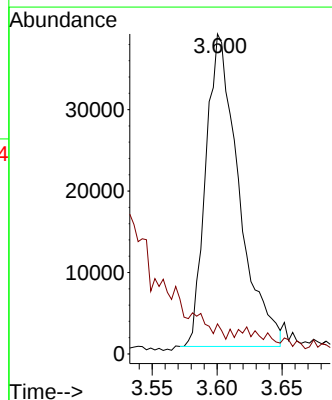
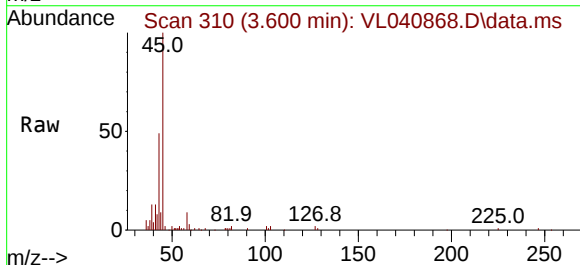
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MSVOA_L
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NT-SS-2

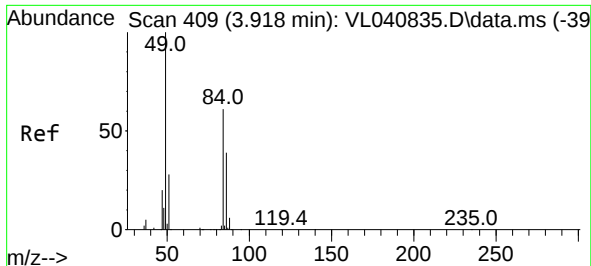
Tgt Ion: 39 Resp: 109929
Ion Ratio Lower Upper
39 100
54 21.4 61.8 92.6#



#19
Isopropyl Alcohol
Concen: 0.975 ppbv
RT: 3.600 min Scan# 310
Delta R.T. 0.035 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Tgt Ion: 45 Resp: 67649
Ion Ratio Lower Upper
45 100
58 0.0 1.6 2.4#



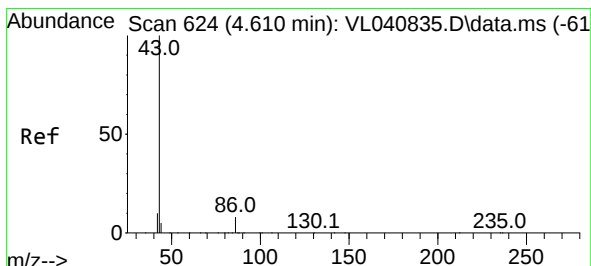
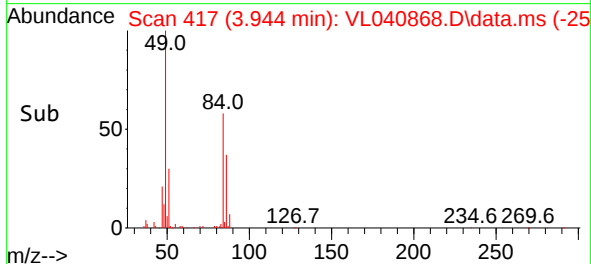
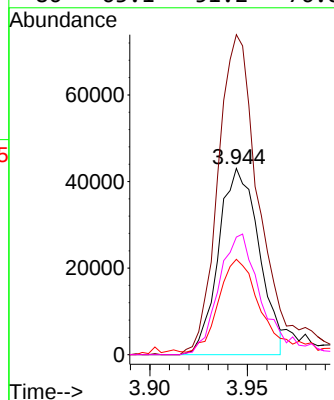
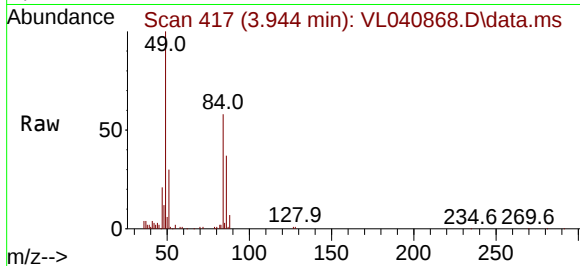


#20
Methylene Chloride
Concen: 1.305 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.026 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2

Tgt Ion: 84 Resp: 62143

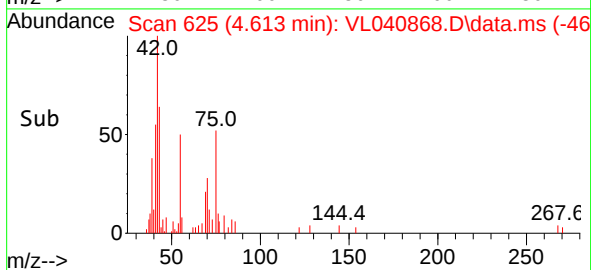
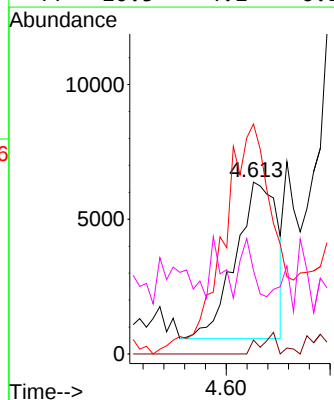
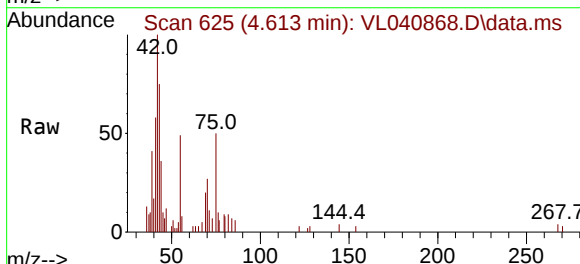
Ion	Ratio	Lower	Upper
84	100		
49	171.8	131.0	196.4
51	49.6	36.9	55.3
86	63.1	51.2	76.8

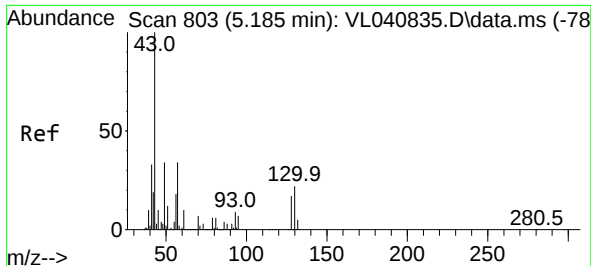


#23
Vinyl Acetate
Concen: 0.054 ppbv
RT: 4.613 min Scan# 625
Delta R.T. 0.003 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Tgt Ion: 43 Resp: 8049

Ion	Ratio	Lower	Upper
43	100		
86	8.9	5.5	8.3#
42	135.9	8.2	12.2#
44	10.5	4.1	6.1#

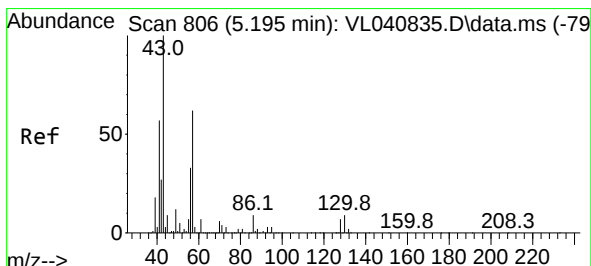
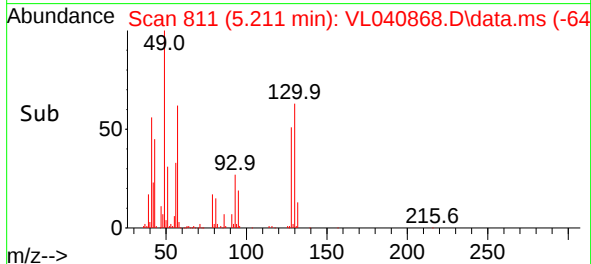
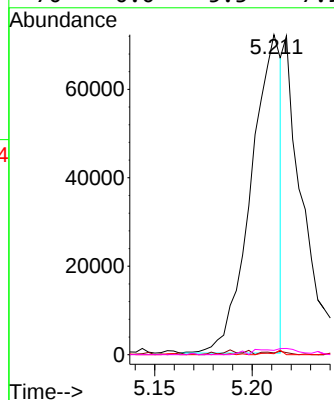
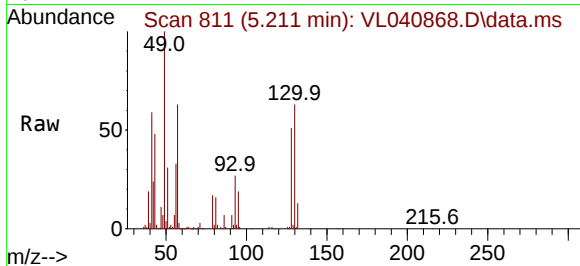




#25
Ethyl Acetate
Concen: 0.324 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.026 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

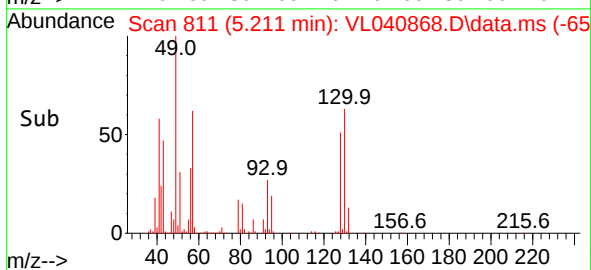
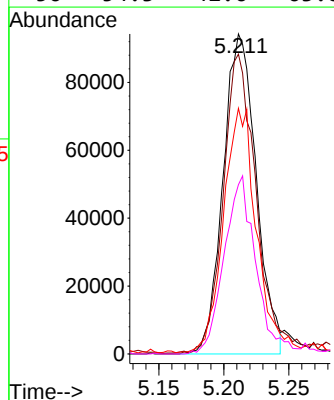
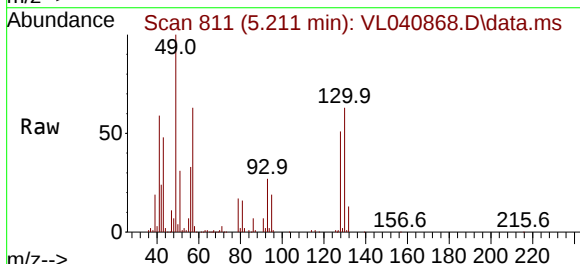
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2

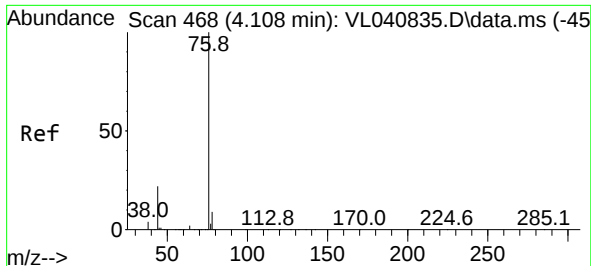
Tgt Ion: 43 Resp: 77308
Ion Ratio Lower Upper
43 100
45 1.8 8.1 12.1#
61 0.7 7.8 11.6#
70 0.0 5.3 7.9#



#26
Hexane
Concen: 1.583 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.016 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Tgt Ion: 57 Resp: 167287
Ion Ratio Lower Upper
57 100
41 94.9 75.4 113.0
43 79.2 185.9 278.9#
56 54.3 42.6 63.8

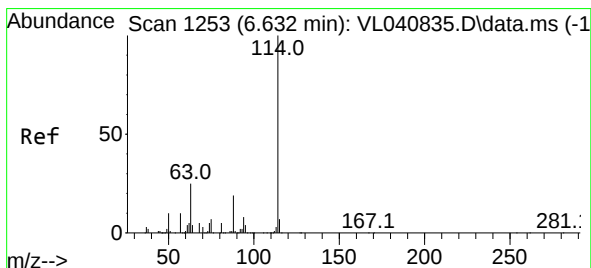
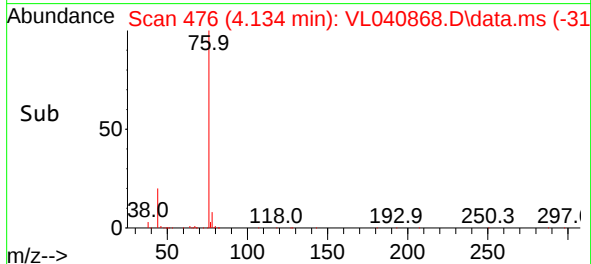
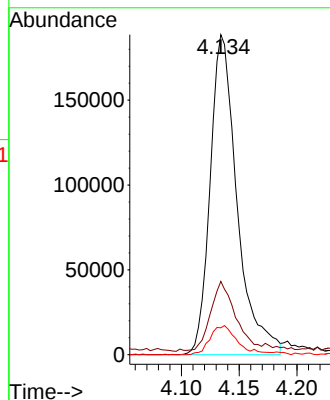
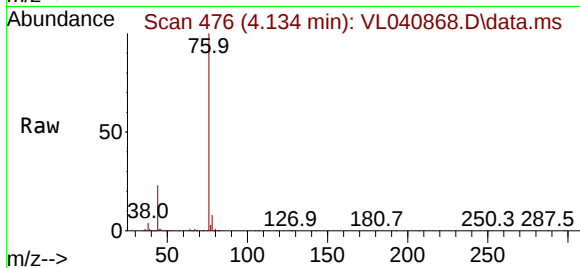




#27
Carbon Disulfide
Concen: 2.280 ppbv
RT: 4.134 min Scan# 41
Delta R.T. 0.026 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

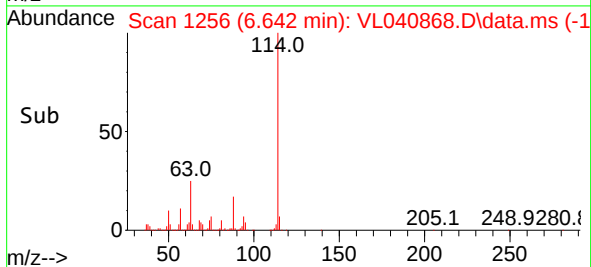
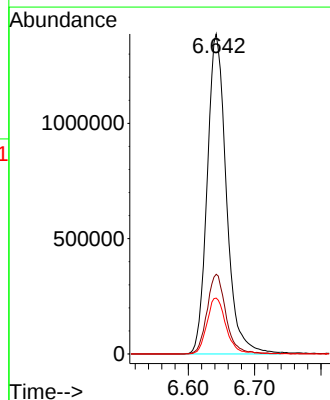
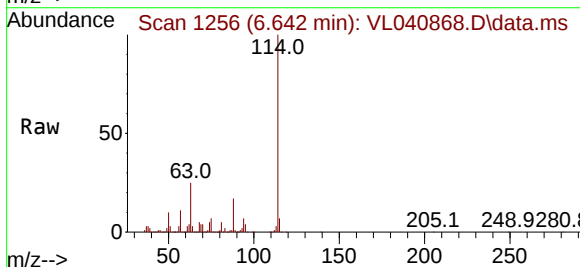
Instrument :
MSVOA_1
ClientSampleId :
NT-SS-2

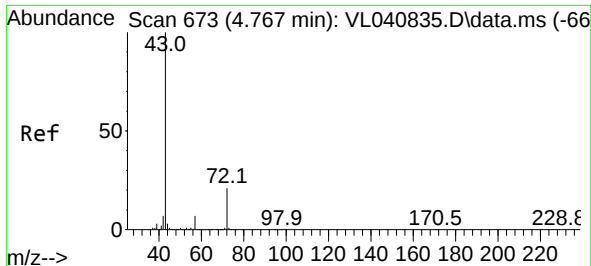
Tgt Ion: 76 Resp: 305616
Ion Ratio Lower Upper
76 100
44 22.0 16.7 25.1
78 9.6 7.6 11.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. 0.010 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Tgt Ion: 114 Resp: 2783950
Ion Ratio Lower Upper
114 100
63 24.8 20.9 31.3
88 17.6 14.3 21.5

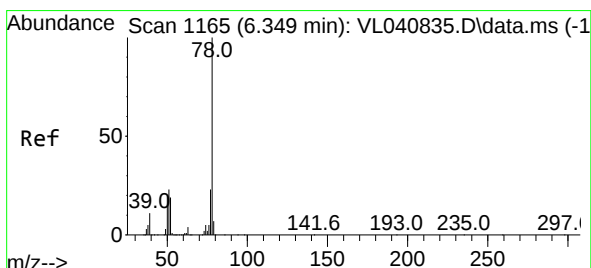
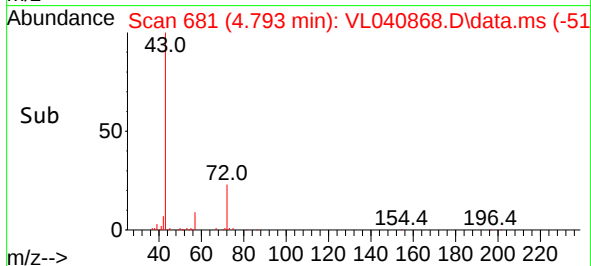
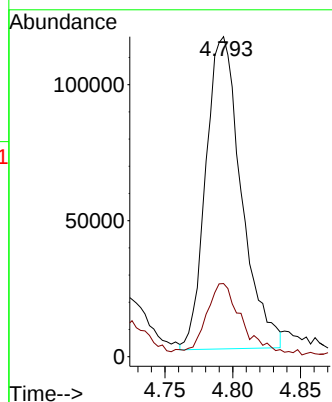
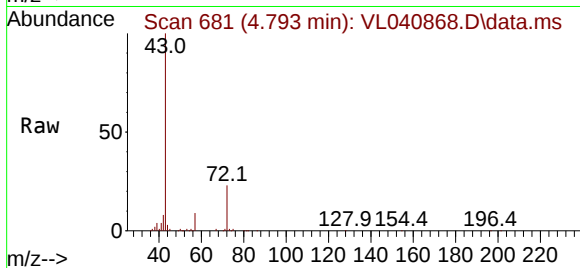




#34
2-Butanone
Concen: 1.474 ppbv
RT: 4.793 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

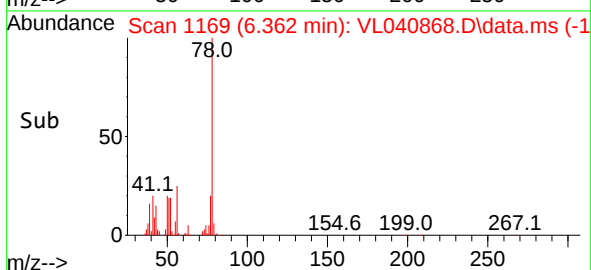
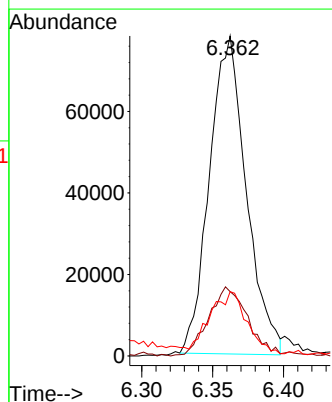
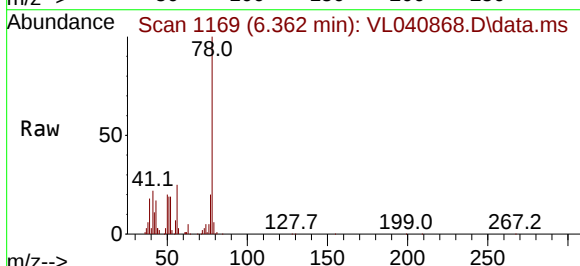
Instrument :
MSVOA_1
ClientSampleId :
NT-SS-2

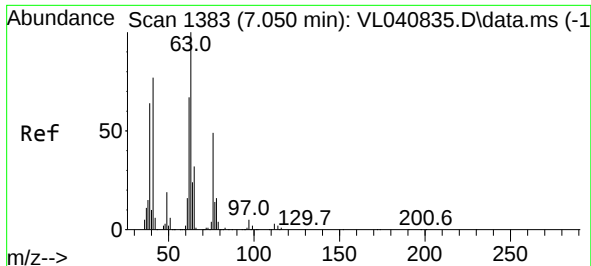
Tgt Ion: 43 Resp: 209037
Ion Ratio Lower Upper
43 100
72 25.9 17.2 25.8#



#36
Benzene
Concen: 0.624 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. 0.013 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Tgt Ion: 78 Resp: 140966
Ion Ratio Lower Upper
78 100
77 19.6 18.4 27.6
50 19.5 16.2 24.2





#39

1,2-Dichloropropane

Concen: 7.534 ppbv

RT: 6.642 min Scan# 1

Delta R.T. -0.408 min

Lab File: VL040868.D

Acq: 15 Nov 2023 14:04

Instrument :

MSVOA_1

ClientSampleId :

NT-SS-2

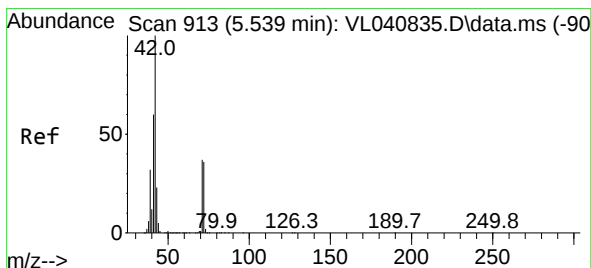
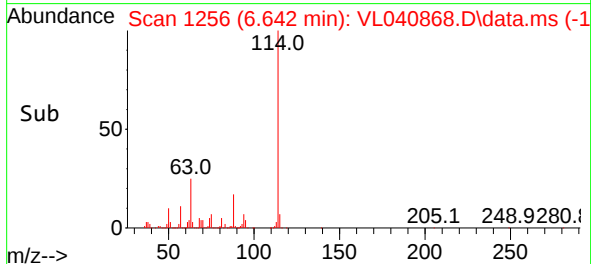
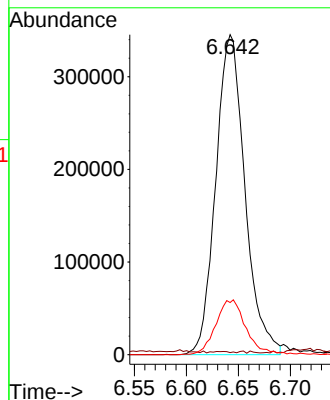
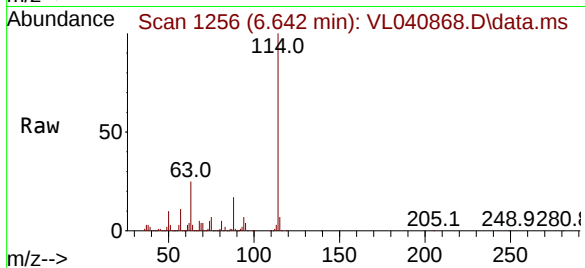
Tgt Ion: 63 Resp: 674922

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 16.3 53.9 80.9#



#41

Tetrahydrofuran

Concen: 0.033 ppbv

RT: 5.568 min Scan# 922

Delta R.T. 0.029 min

Lab File: VL040868.D

Acq: 15 Nov 2023 14:04

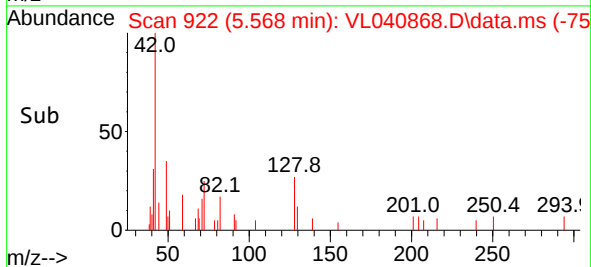
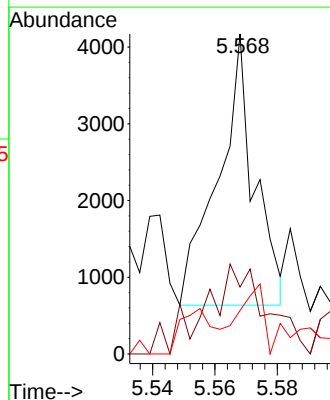
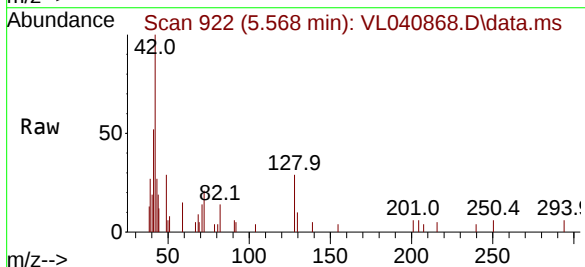
Tgt Ion: 42 Resp: 2845

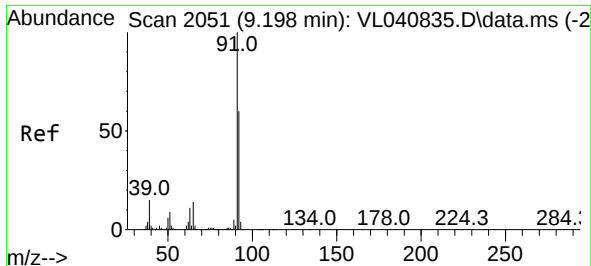
Ion Ratio Lower Upper

42 100

72 60.6 30.8 46.2#

71 56.6 30.0 45.0#

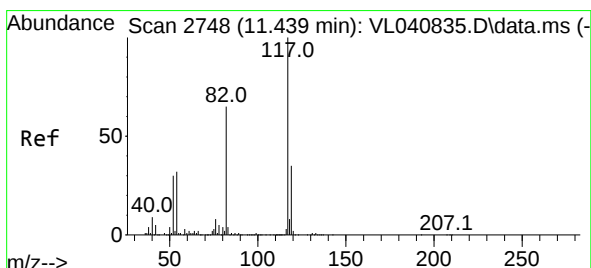
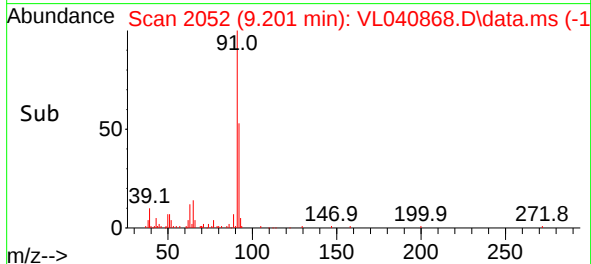
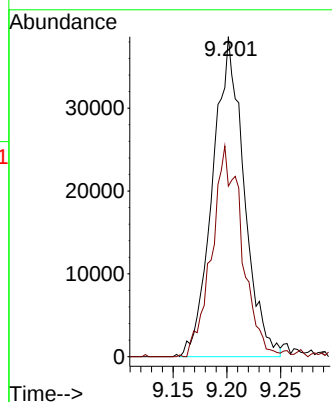
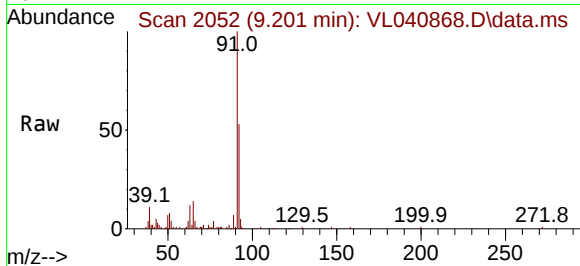




#53
Toluene
Concen: 0.315 ppbv
RT: 9.201 min Scan# 2051
Delta R.T. 0.003 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

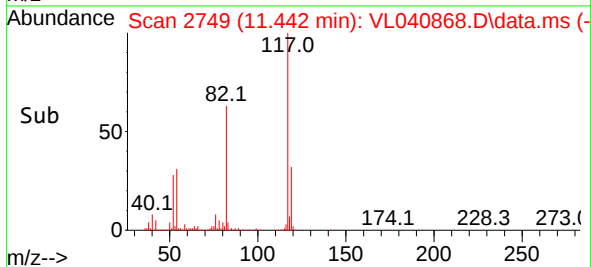
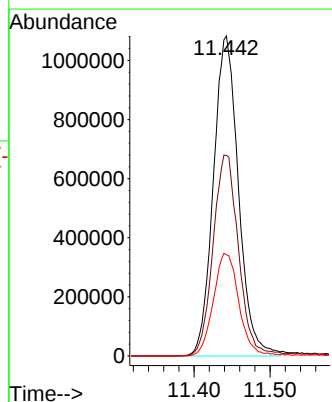
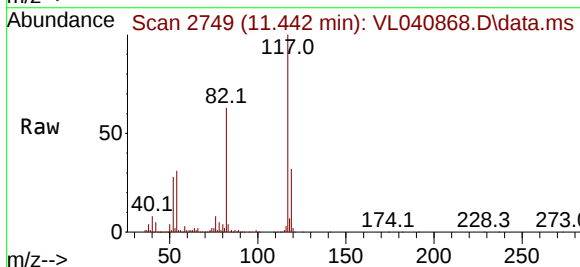
Instrument :
MSVOA_1
ClientSampleId :
NT-SS-2

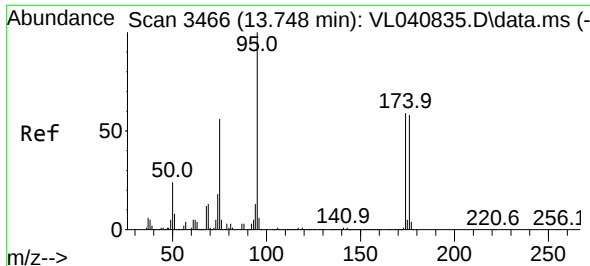
Tgt Ion: 91 Resp: 78299
Ion Ratio Lower Upper
91 100
92 63.8 49.4 74.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 2749
Delta R.T. 0.003 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Tgt Ion: 117 Resp: 2481101
Ion Ratio Lower Upper
117 100
82 64.9 50.6 75.8
119 33.3 23.3 34.9

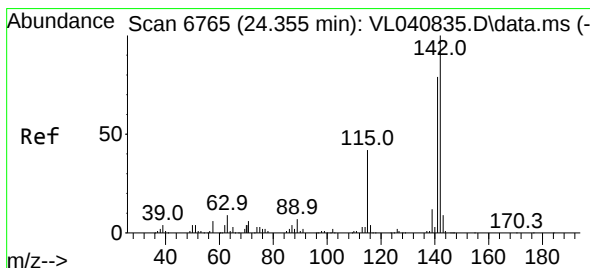
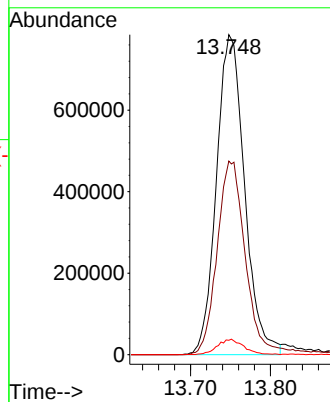
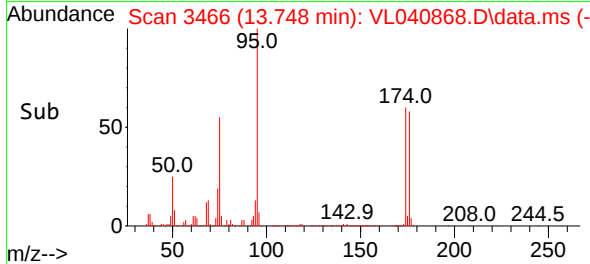
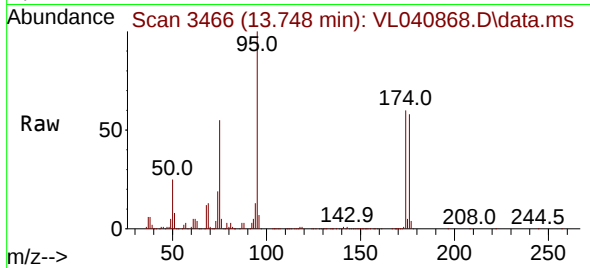




#68
1-Bromo-4-Fluorobenzene
Concen: 9.882 ppbv
RT: 13.748 min Scan# 3466
Delta R.T. 0.000 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2

Tgt Ion: 95 Resp: 1919579
Ion Ratio Lower Upper
95 100
174 62.4 47.5 71.3
175 4.6 3.6 5.4



#80
Naphthalene,2-methyl-
Concen: 0.041 ppbv
RT: 24.593 min Scan# 6839
Delta R.T. 0.238 min
Lab File: VL040868.D
Acq: 15 Nov 2023 14:04

Tgt Ion:142 Resp: 1064
Ion Ratio Lower Upper
142 100
141 70.6 65.8 98.8
115 42.6 35.6 53.4

