

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090523\
 Data File : VL040649.D
 Acq On : 5 Sep 2023 16:08
 Operator : SY/MD
 Sample : 04281-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 06 02:06:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Aug 16 05:43:50 2023
 Response via : Initial Calibration

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

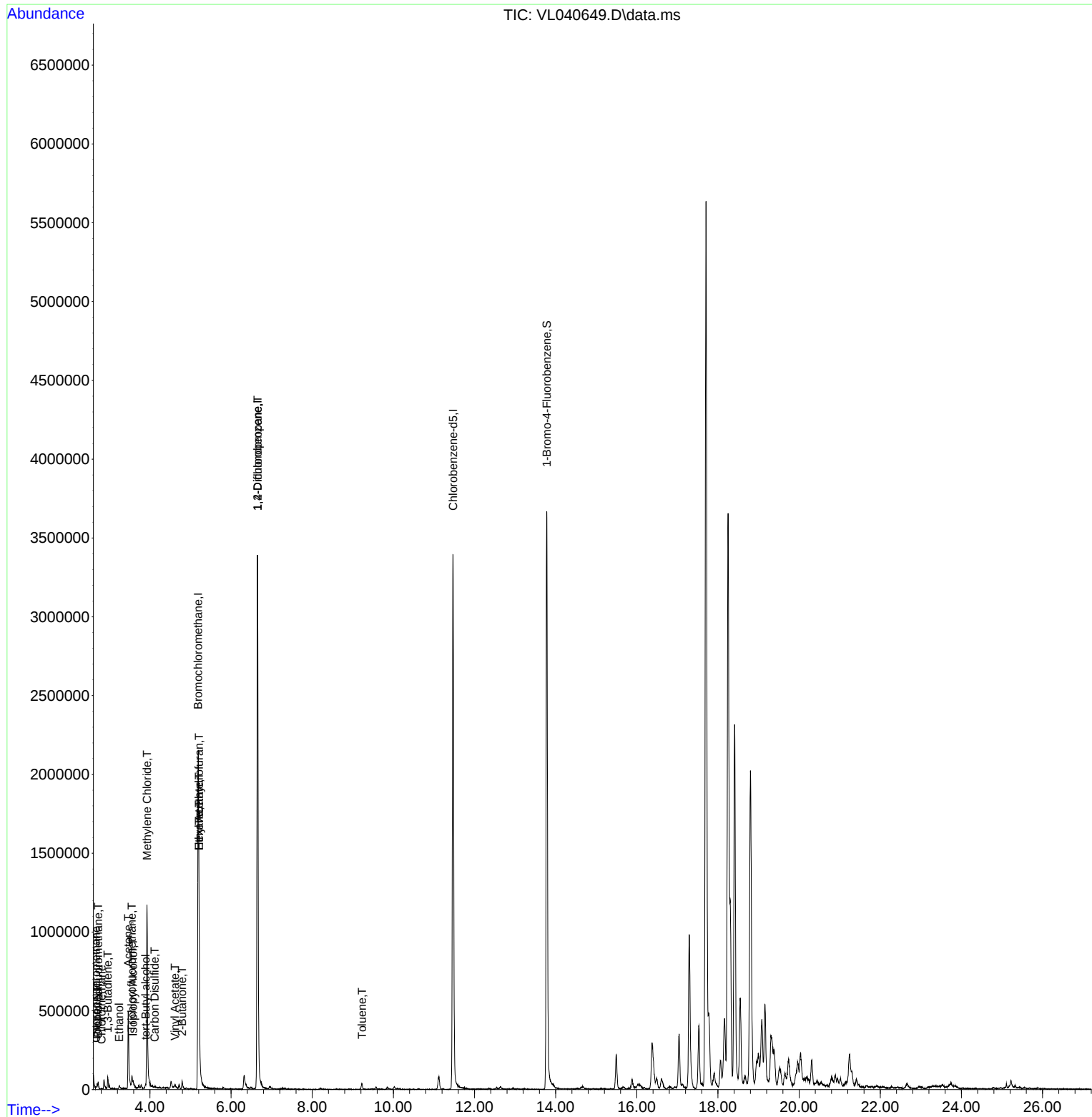
Internal Standards						
1) Bromochloromethane	5.189	49	916247	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2430346	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2136952	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	1748013	10.285	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.900%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.726	85	26551	0.135	ppbv	90
3) Chlorodifluoromethane	2.671	51	12570	0.084	ppbv	99
4) Chloromethane	2.809	50	3550	0.061	ppbv #	75
9) Propene	2.697	41	9112	0.195	ppbv #	80
11) Trichlorofluoromethane	3.555	101	43999	0.276	ppbv	89
13) Ethanol	3.240	45	5683	0.437	ppbv #	39
15) Acetone	3.465	43	516399	4.608	ppbv	95
16) 1,3-Butadiene	2.960	39	18447	0.331	ppbv #	22
17) tert-Butyl alcohol	3.896	59	15881	0.134	ppbv #	89
19) Isopropyl Alcohol	3.584	45	21229	0.299	ppbv #	93
20) Methylene Chloride	3.928	84	401162	7.325	ppbv	98
23) Vinyl Acetate	4.620	43	21807	0.171	ppbv #	92
25) Ethyl Acetate	5.211	43	187356	0.890	ppbv #	77
26) Hexane	5.211	57	281308	2.762	ppbv #	39
27) Carbon Disulfide	4.121	76	4467	0.037	ppbv #	64
34) 2-Butanone	4.793	43	48827	0.398	ppbv	93
39) 1,2-Dichloropropane	6.652	63	624417	8.489	ppbv #	26
41) Tetrahydrofuran	5.208	42	111471	1.609	ppbv #	46
53) Toluene	9.227	91	16390	0.080	ppbv #	42

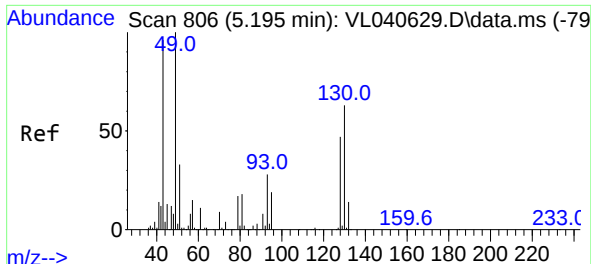
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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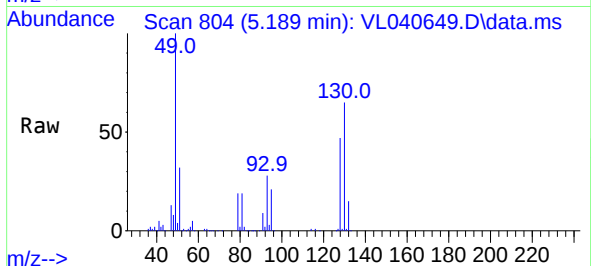
Quant Time: Sep 06 02:06:24 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Aug 16 05:43:50 2023
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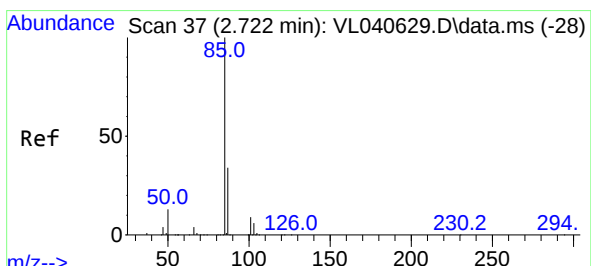
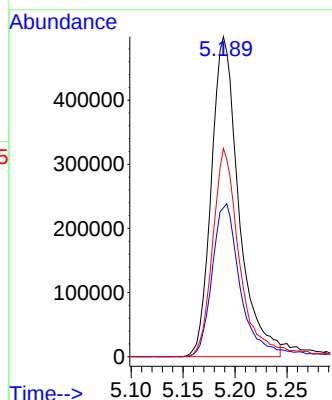
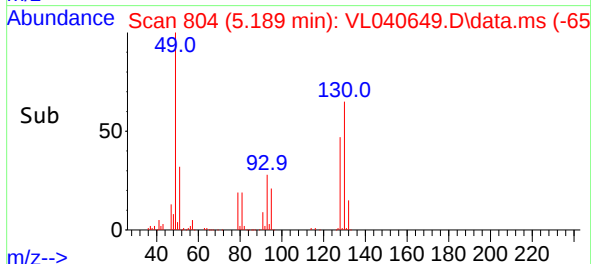


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.006 min
Lab File: VL040649.D
Acq: 5 Sep 2023 16:08

Instrument :
MSVOA_L
ClientSampleId :

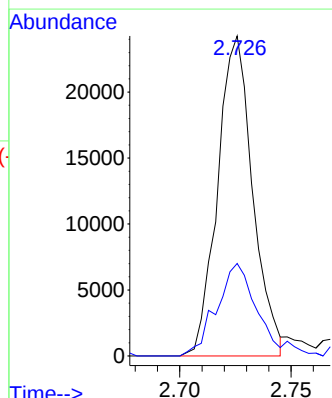
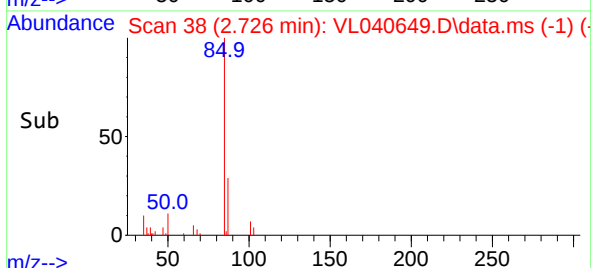
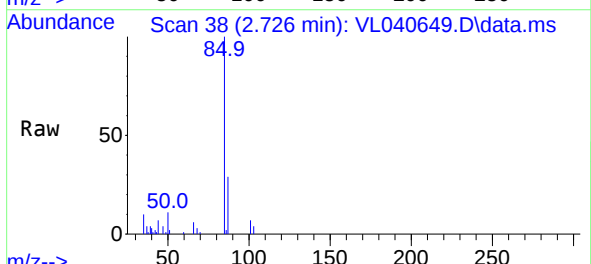


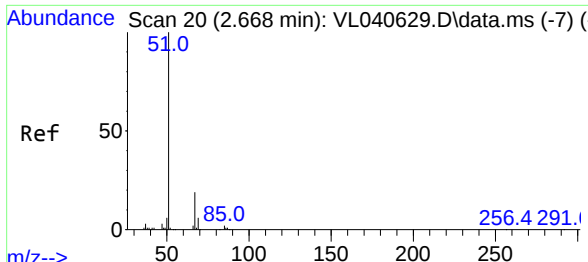
Tgt Ion: 49 Resp: 916247
Ion Ratio Lower Upper
49 100
128 50.9 24.9 74.7
130 66.1 32.2 96.6



#2
Dichlorodifluoromethane
Concen: 0.135 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.003 min
Lab File: VL040649.D
Acq: 5 Sep 2023 16:08

Tgt Ion: 85 Resp: 26551
Ion Ratio Lower Upper
85 100
87 28.9 27.5 41.3

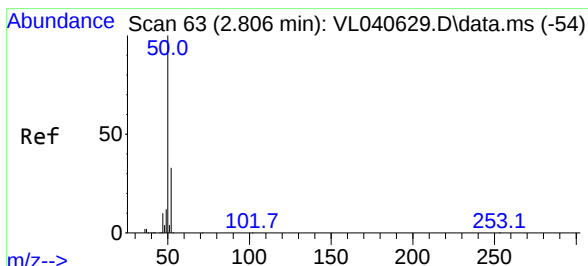
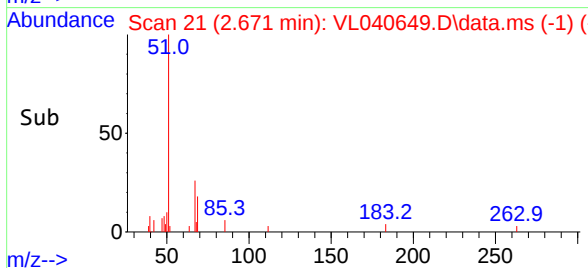
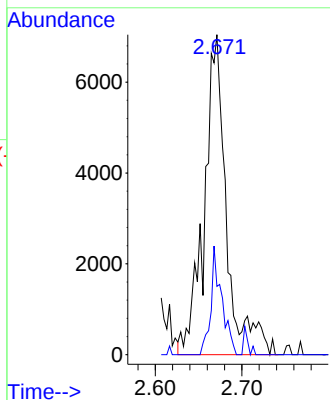
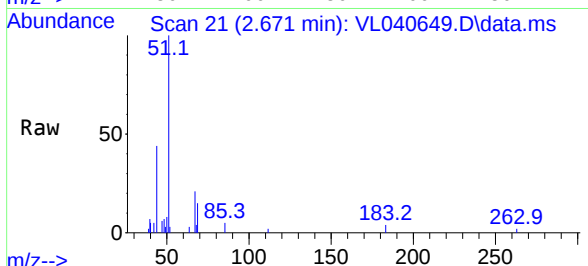




#3
Chlorodifluoromethane
Concen: 0.084 ppbv
RT: 2.671 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040649.D
Acq: 5 Sep 2023 16:08

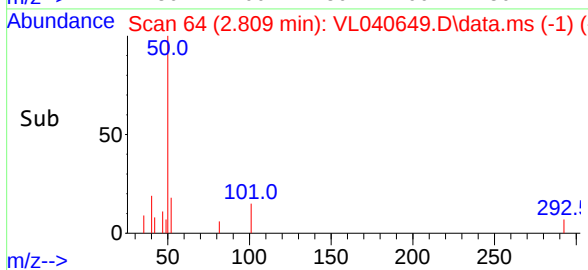
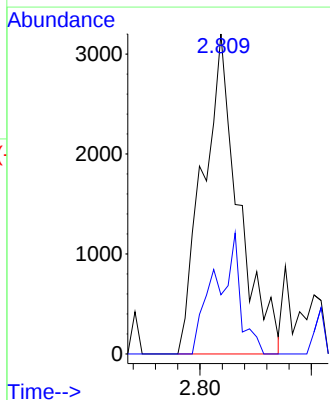
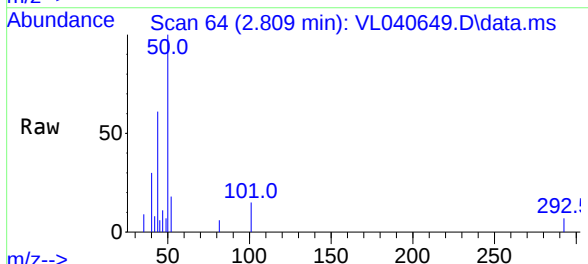
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 12570
Ion Ratio Lower Upper
51 100
67 18.4 15.0 22.6

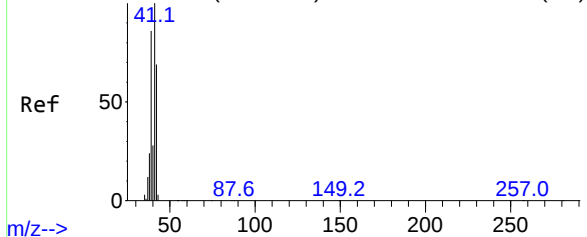


#4
Chloromethane
Concen: 0.061 ppbv
RT: 2.809 min Scan# 64
Delta R.T. 0.003 min
Lab File: VL040649.D
Acq: 5 Sep 2023 16:08

Tgt Ion: 50 Resp: 3550
Ion Ratio Lower Upper
50 100
52 18.5 26.2 39.2#



Abundance Scan 26 (2.687 min): VL040629.D\data.ms (-17)



#9

Propene

Concen: 0.195 ppbv

RT: 2.697 min Scan# 29

Delta R.T. 0.010 min

Lab File: VL040649.D

Acq: 5 Sep 2023 16:08

Instrument :

MSVOA_L

ClientSampleId :

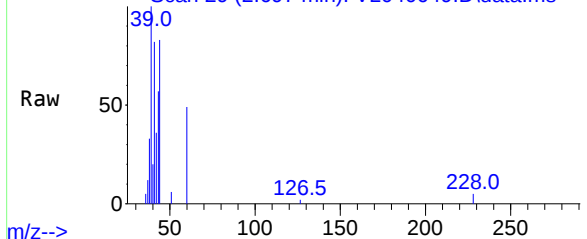
Tgt Ion: 41 Resp: 9112

Ion Ratio Lower Upper

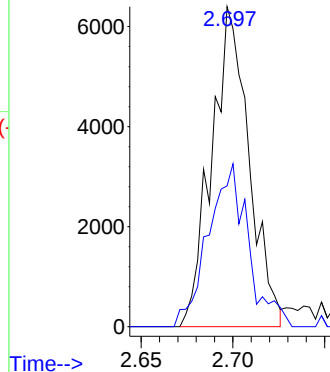
41 100

42 53.9 56.5 84.7#

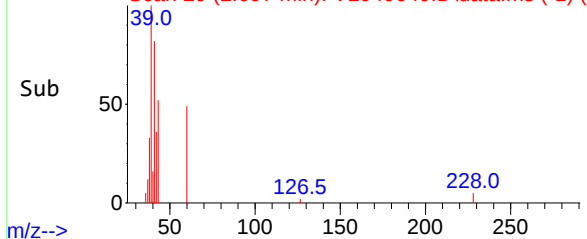
Abundance Scan 29 (2.697 min): VL040649.D\data.ms



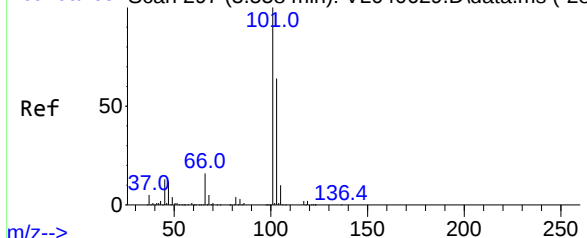
Abundance



Abundance Scan 29 (2.697 min): VL040649.D\data.ms (-1)



Abundance Scan 297 (3.558 min): VL040629.D\data.ms (-28)



#11

Trichlorofluoromethane

Concen: 0.276 ppbv

RT: 3.555 min Scan# 296

Delta R.T. -0.003 min

Lab File: VL040649.D

Acq: 5 Sep 2023 16:08

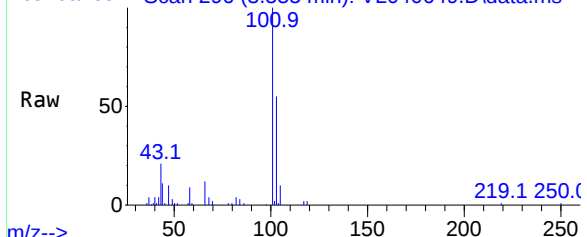
Tgt Ion:101 Resp: 43999

Ion Ratio Lower Upper

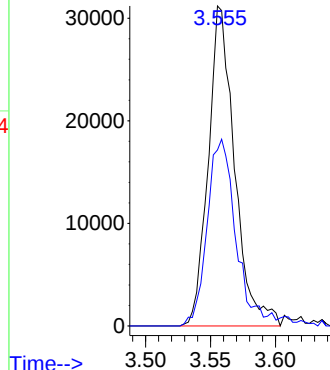
101 100

103 55.0 51.1 76.7

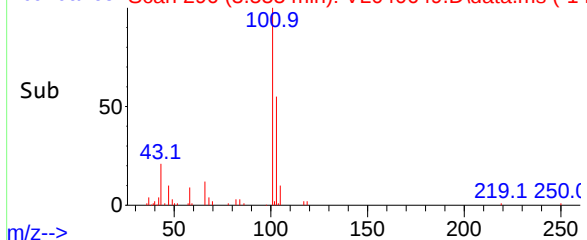
Abundance Scan 296 (3.555 min): VL040649.D\data.ms

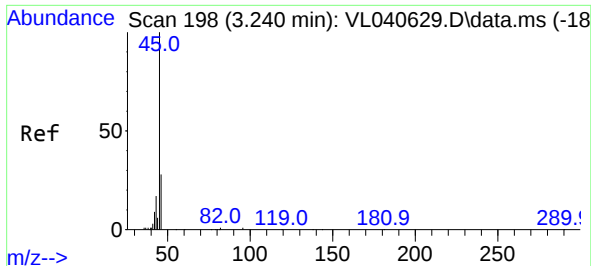


Abundance



Abundance Scan 296 (3.555 min): VL040649.D\data.ms (-14)

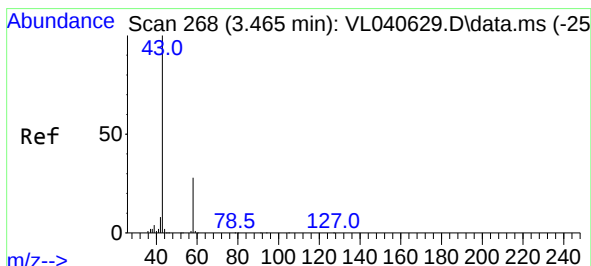
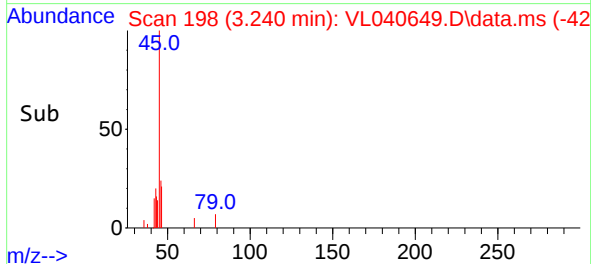
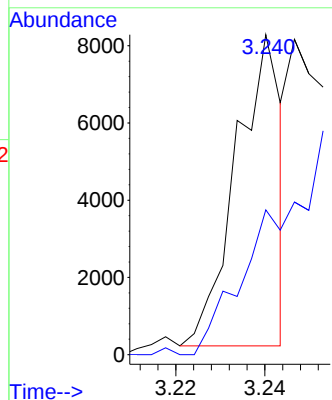
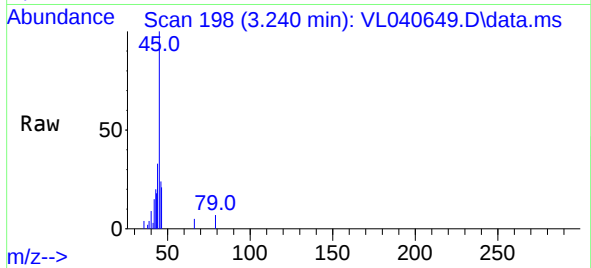




#13
Ethanol
Concen: 0.437 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.000 min
Lab File: VL040649.D
Acq: 5 Sep 2023 16:08

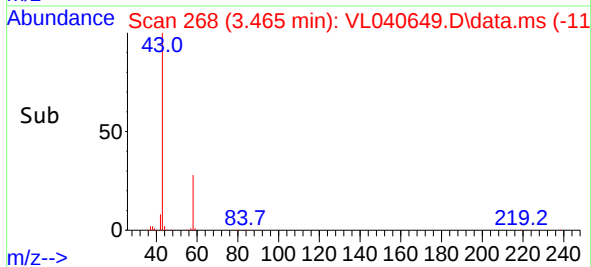
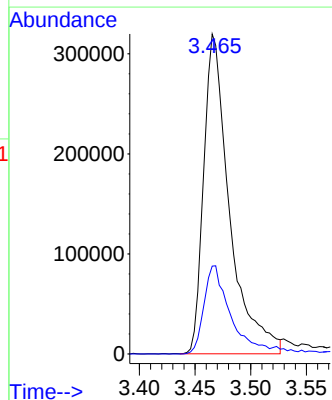
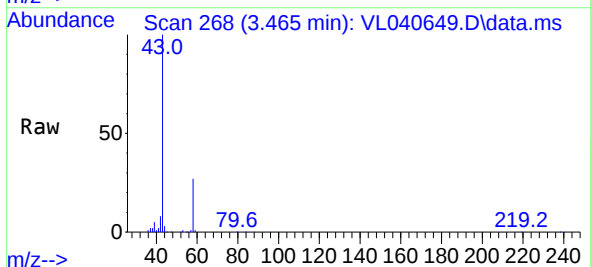
Instrument :
MSVOA_L
ClientSampleId :

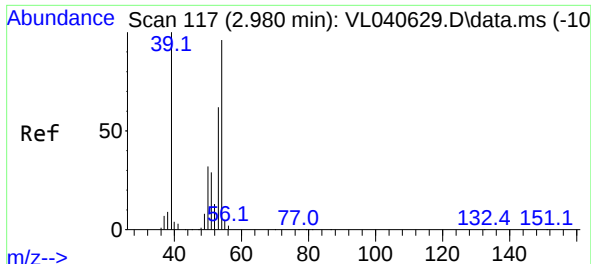
Tgt Ion: 45 Resp: 5683
Ion Ratio Lower Upper
45 100
46 0.0 14.2 56.6#



#15
Acetone
Concen: 4.608 ppbv
RT: 3.465 min Scan# 268
Delta R.T. 0.000 min
Lab File: VL040649.D
Acq: 5 Sep 2023 16:08

Tgt Ion: 43 Resp: 516399
Ion Ratio Lower Upper
43 100
58 30.8 22.4 33.6





#16

1,3-Butadiene

Concen: 0.331 ppbv

RT: 2.960 min Scan# 11

Delta R.T. -0.019 min

Lab File: VL040649.D

Acq: 5 Sep 2023 16:08

Instrument :

MSVOA_L

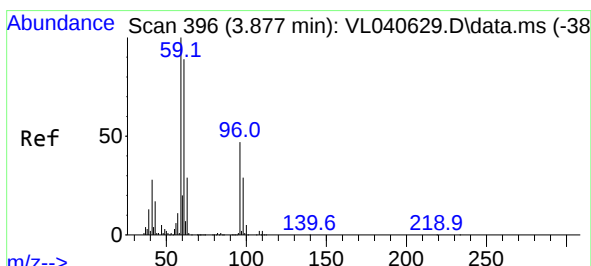
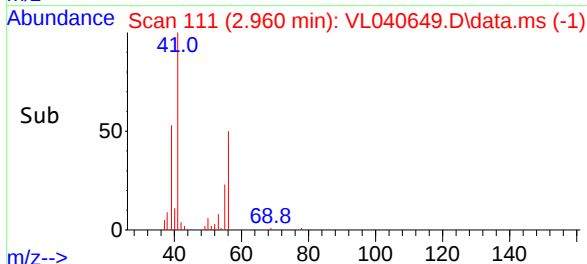
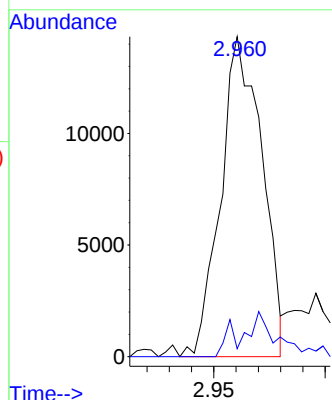
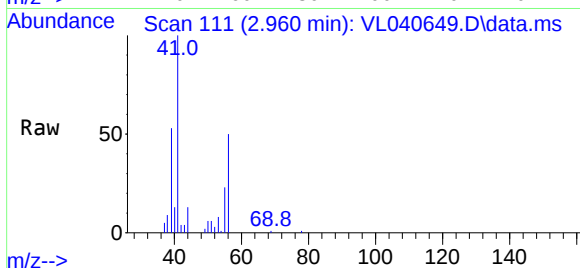
ClientSampleId :

Tgt Ion: 39 Resp: 18447

Ion Ratio Lower Upper

39 100

54 12.9 66.6 99.8#



#17

tert-Butyl alcohol

Concen: 0.134 ppbv

RT: 3.896 min Scan# 402

Delta R.T. 0.019 min

Lab File: VL040649.D

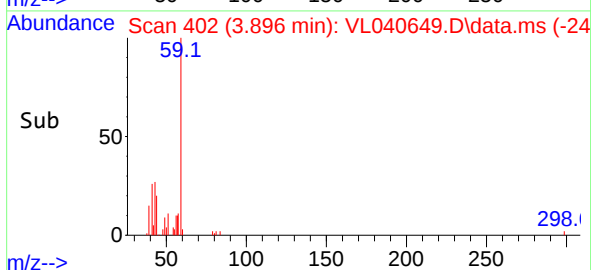
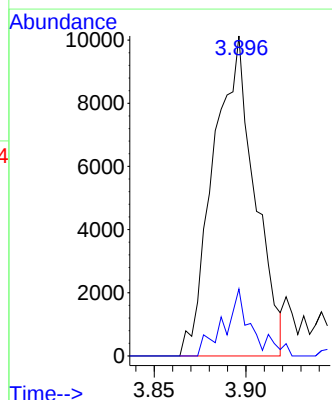
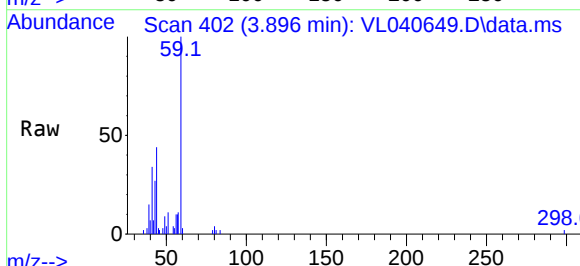
Acq: 5 Sep 2023 16:08

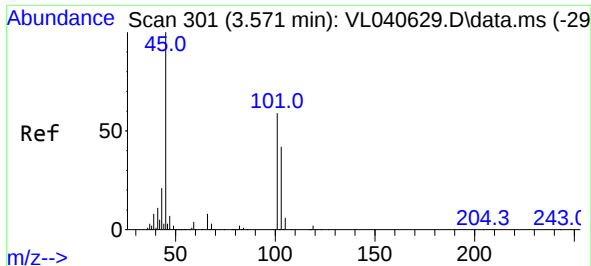
Tgt Ion: 59 Resp: 15881

Ion Ratio Lower Upper

59 100

57 14.7 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.299 ppbv

RT: 3.584 min Scan# 301

Delta R.T. 0.013 min

Lab File: VL040649.D

Acq: 5 Sep 2023 16:08

Instrument :

MSVOA_L

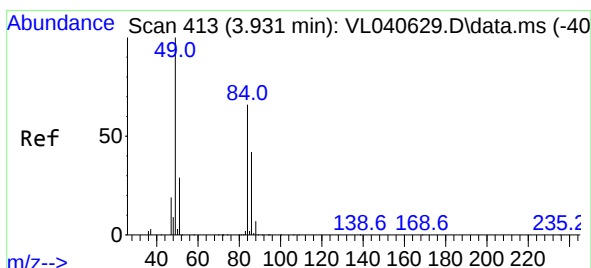
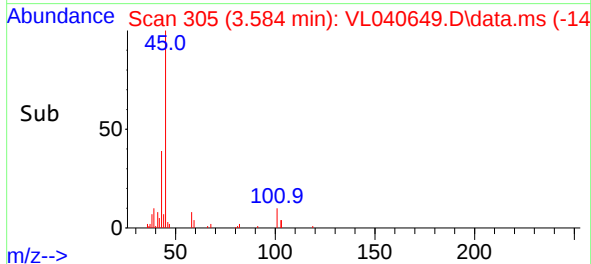
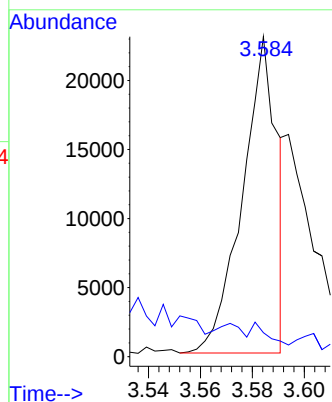
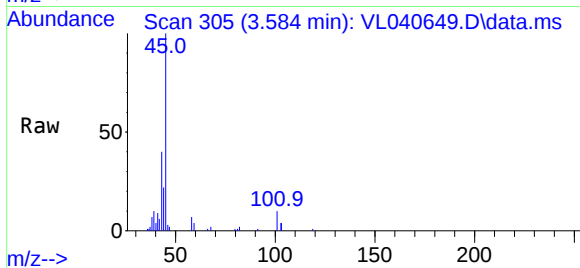
ClientSampleId :

Tgt Ion: 45 Resp: 21229

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 7.325 ppbv

RT: 3.928 min Scan# 412

Delta R.T. -0.003 min

Lab File: VL040649.D

Acq: 5 Sep 2023 16:08

Tgt Ion: 84 Resp: 401162

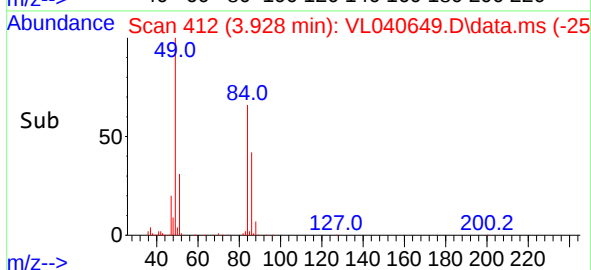
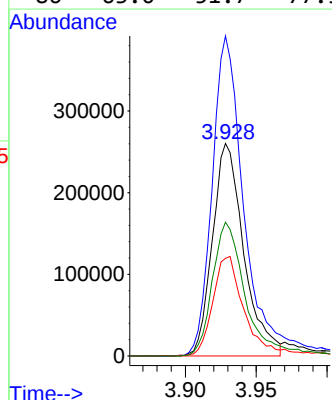
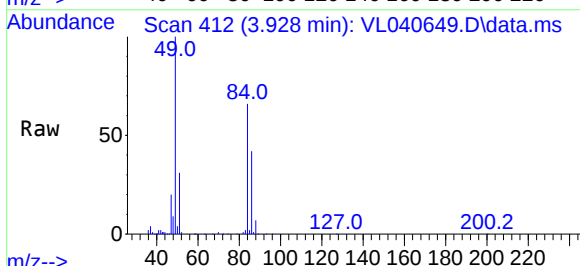
Ion Ratio Lower Upper

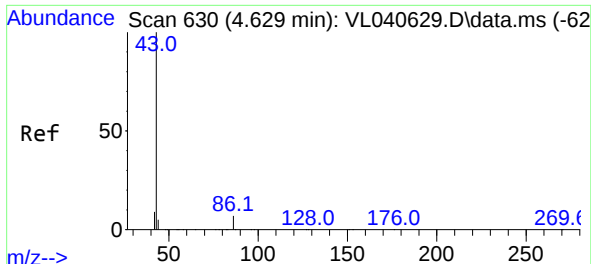
84 100

49 150.3 122.1 183.1

51 45.6 35.4 53.2

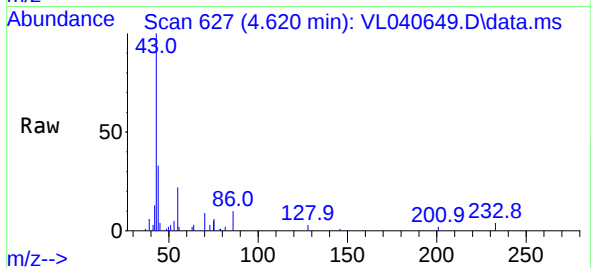
86 63.0 51.7 77.5





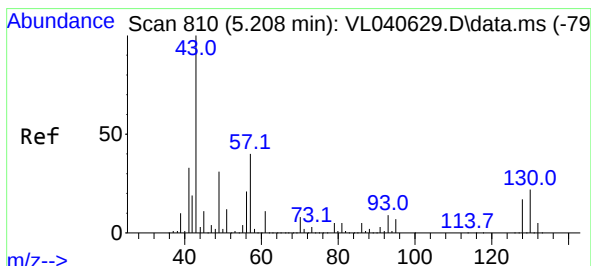
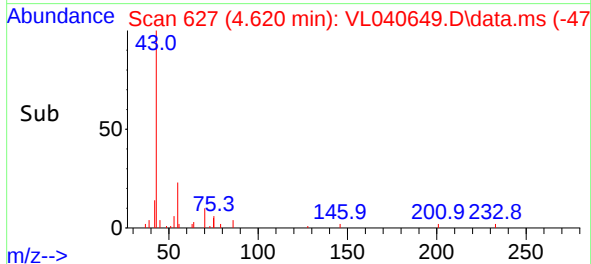
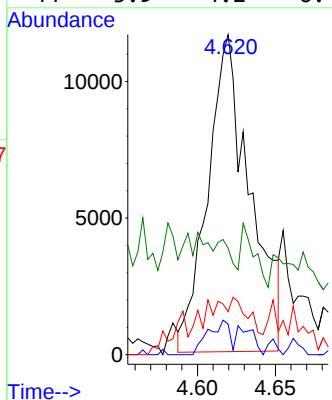
#23
 Vinyl Acetate
 Concen: 0.171 ppbv
 RT: 4.620 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL040649.D
 Acq: 5 Sep 2023 16:08

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 43 Resp: 21807

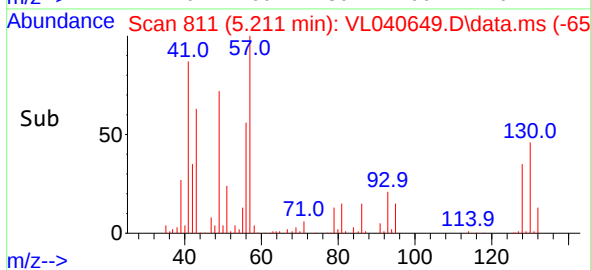
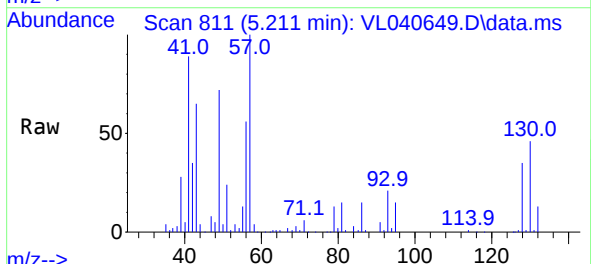
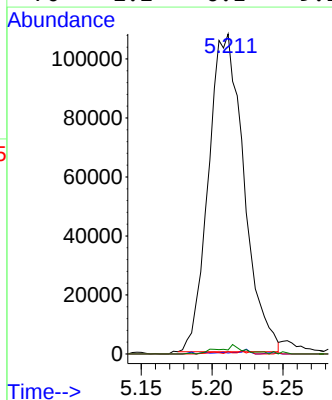
Ion	Ratio	Lower	Upper
43	100		
86	10.3	5.0	7.6#
42	6.6	7.8	11.8#
44	3.9	4.2	6.4#

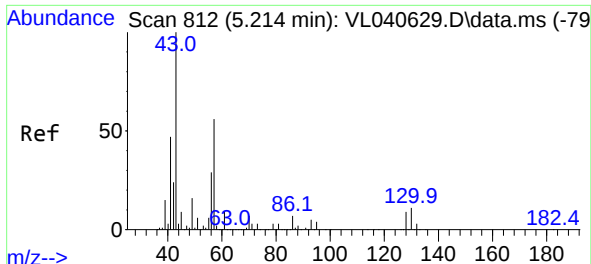


#25
 Ethyl Acetate
 Concen: 0.890 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.003 min
 Lab File: VL040649.D
 Acq: 5 Sep 2023 16:08

Tgt Ion: 43 Resp: 187356

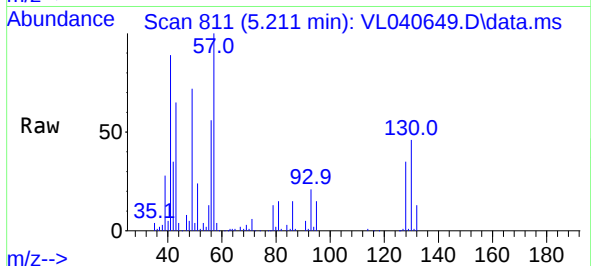
Ion	Ratio	Lower	Upper
43	100		
45	0.9	8.2	12.4#
61	0.6	8.3	12.5#
70	2.2	6.1	9.1#



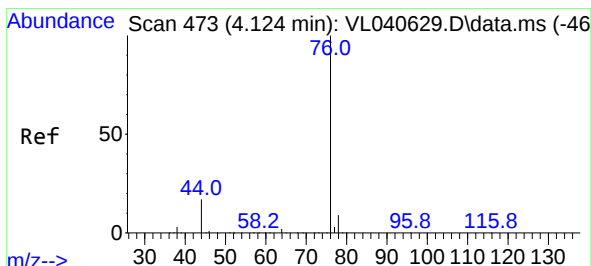
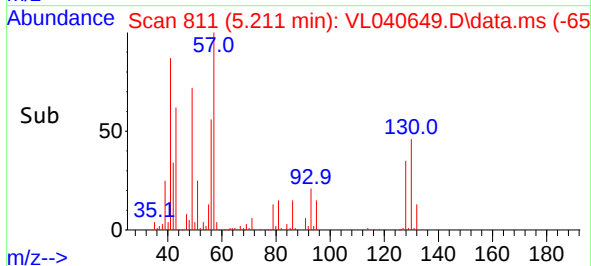
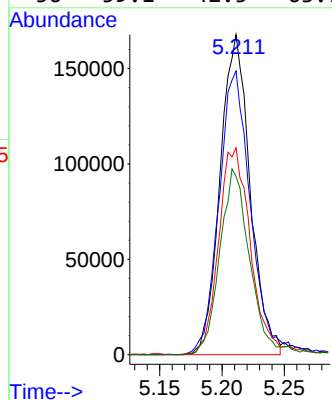


#26
Hexane
Concen: 2.762 ppbv
RT: 5.211 min Scan# 812
Delta R.T. -0.003 min
Lab File: VL040649.D
Acq: 5 Sep 2023 16:08

Instrument :
MSVOA_L
ClientSampleId :

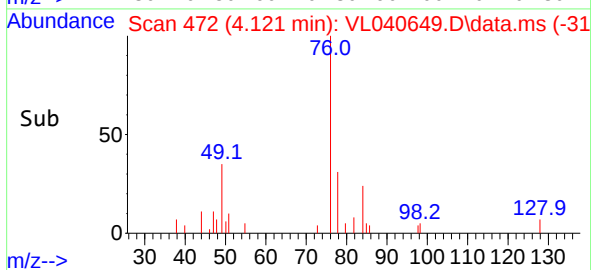
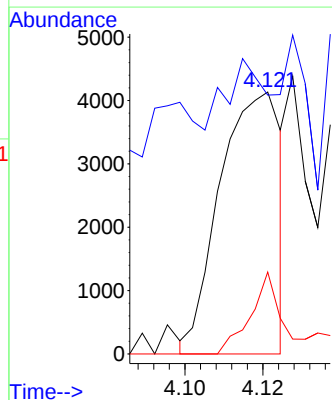
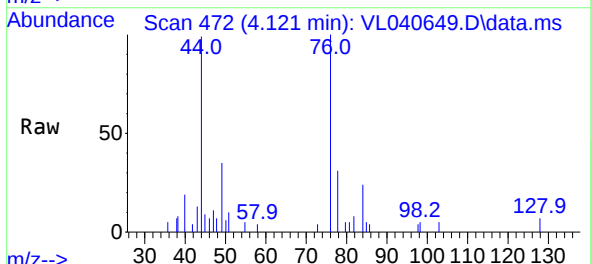


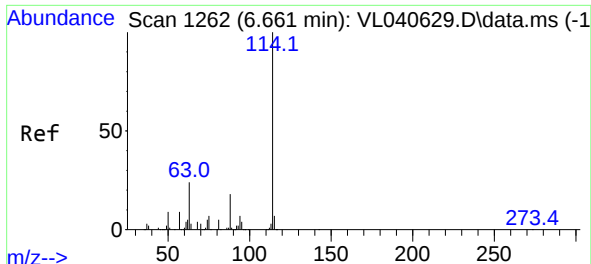
Tgt Ion: 57 Resp: 281308
Ion Ratio Lower Upper
57 100
41 95.3 69.3 103.9
43 70.5 177.9 266.9#
56 59.1 42.5 63.7



#27
Carbon Disulfide
Concen: 0.037 ppbv
RT: 4.121 min Scan# 472
Delta R.T. -0.003 min
Lab File: VL040649.D
Acq: 5 Sep 2023 16:08

Tgt Ion: 76 Resp: 4467
Ion Ratio Lower Upper
76 100
44 0.0 14.3 21.5#
78 19.5 7.4 11.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 114

Delta R.T. -0.010 min

Lab File: VL040649.D

Acq: 5 Sep 2023 16:08

Instrument :

MSVOA_L

ClientSampleId :

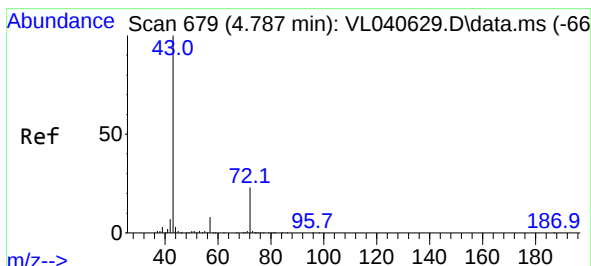
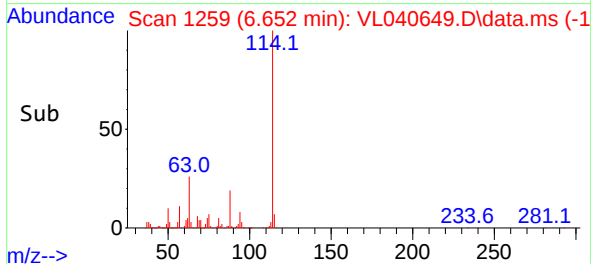
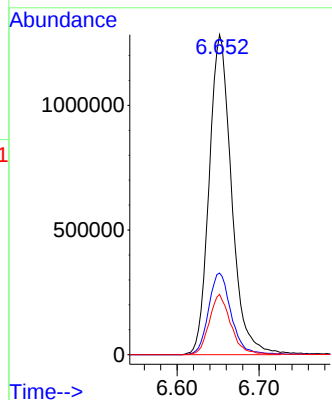
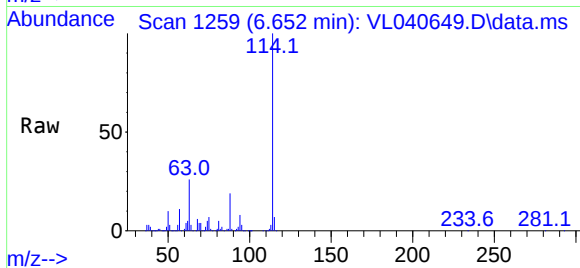
Tgt Ion:114 Resp: 2430346

Ion Ratio Lower Upper

114 100

63 26.1 20.2 30.2

88 18.4 14.1 21.1



#34

2-Butanone

Concen: 0.398 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.007 min

Lab File: VL040649.D

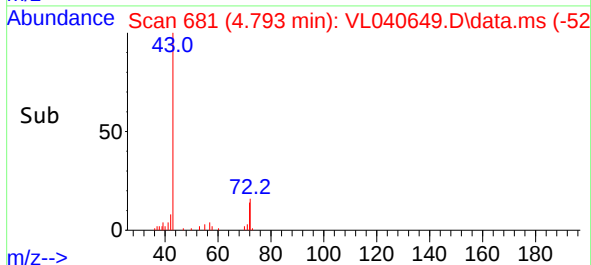
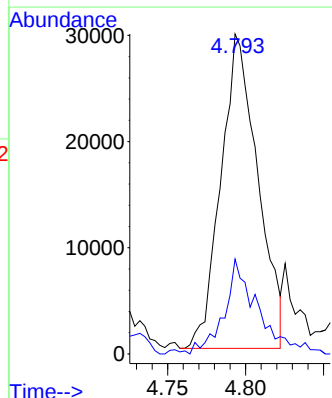
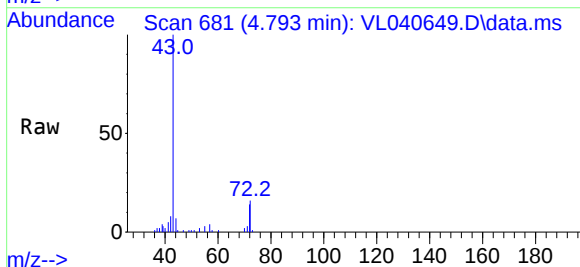
Acq: 5 Sep 2023 16:08

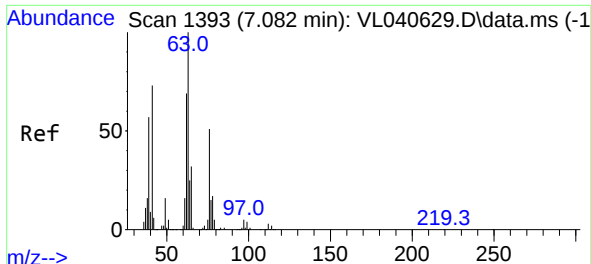
Tgt Ion: 43 Resp: 48827

Ion Ratio Lower Upper

43 100

72 27.6 19.2 28.8





#39

1,2-Dichloropropane

Concen: 8.489 ppbv

RT: 6.652 min Scan# 1

Delta R.T. -0.431 min

Lab File: VL040649.D

Acq: 5 Sep 2023 16:08

Instrument :

MSVOA_L

ClientSampleId :

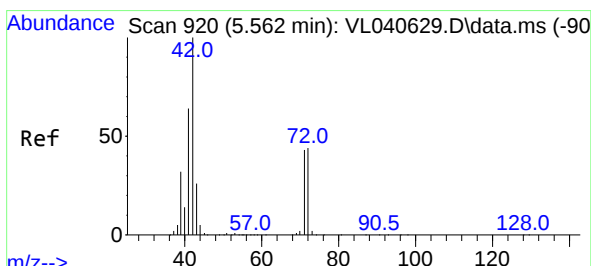
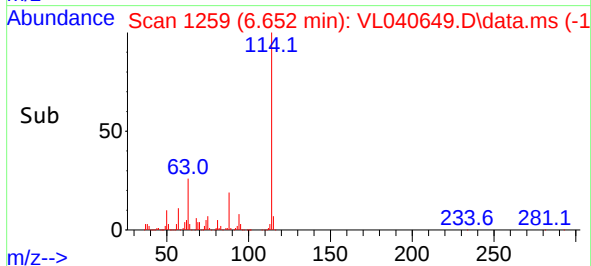
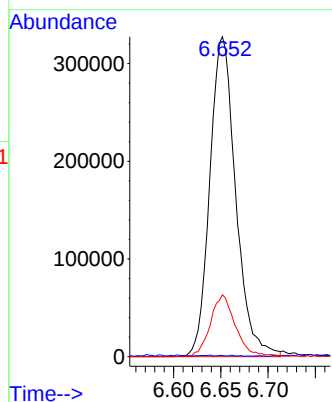
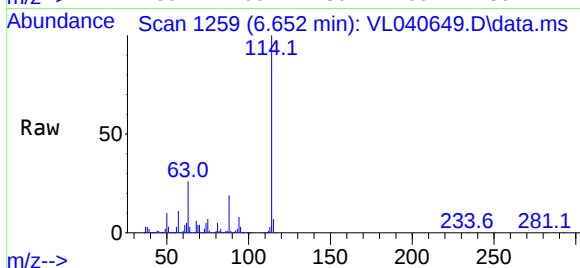
Tgt Ion: 63 Resp: 624417

Ion Ratio Lower Upper

63 100

41 0.1 58.2 87.2#

62 19.2 55.0 82.4#



#41

Tetrahydrofuran

Concen: 1.609 ppbv

RT: 5.208 min Scan# 810

Delta R.T. -0.354 min

Lab File: VL040649.D

Acq: 5 Sep 2023 16:08

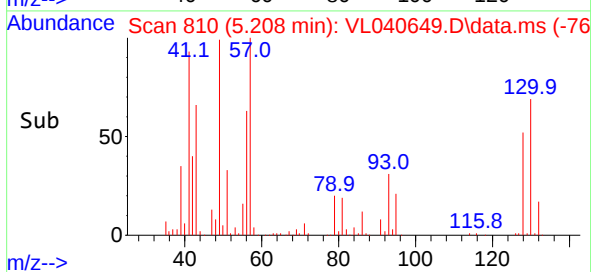
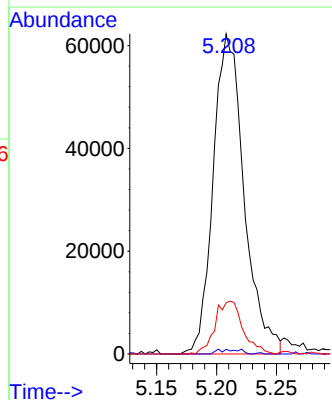
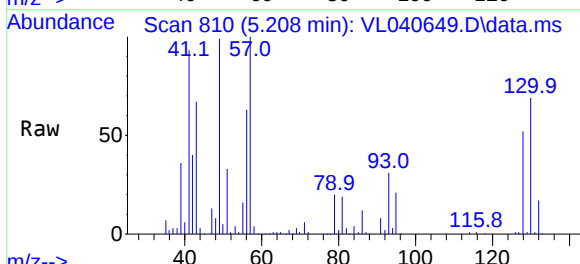
Tgt Ion: 42 Resp: 111471

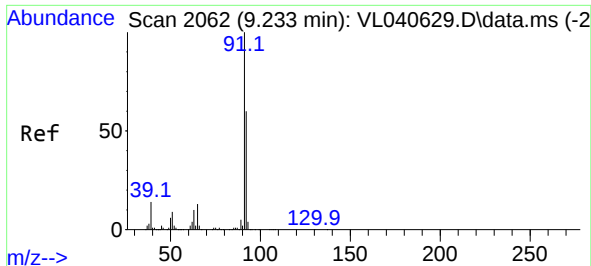
Ion Ratio Lower Upper

42 100

72 1.1 34.2 51.4#

71 15.2 33.4 50.0#

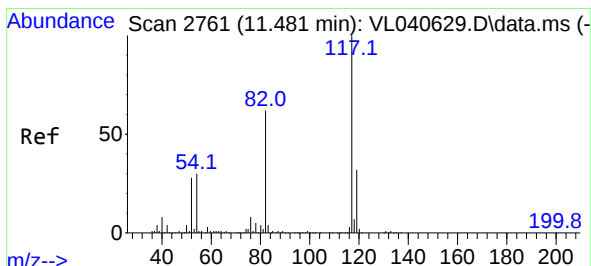
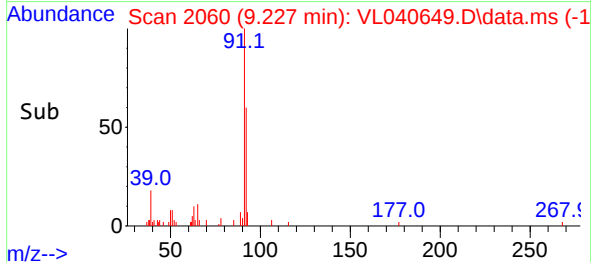
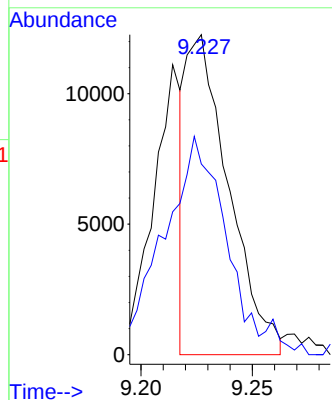
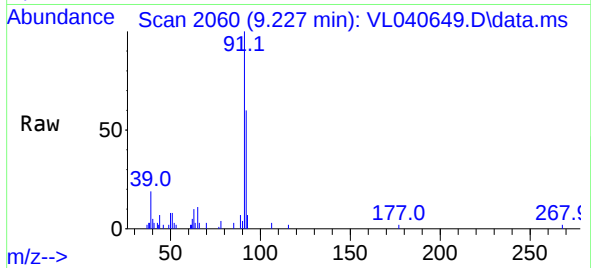




#53
Toluene
Concen: 0.080 ppbv
RT: 9.227 min Scan# 2062
Delta R.T. -0.006 min
Lab File: VL040649.D
Acq: 5 Sep 2023 16:08

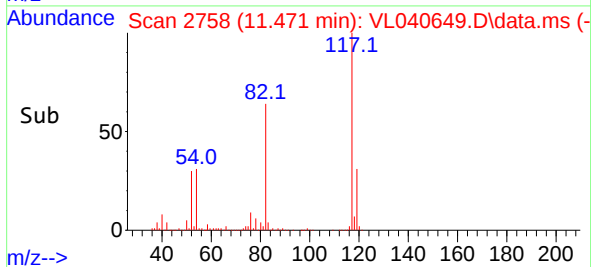
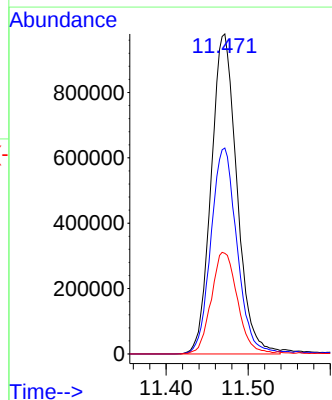
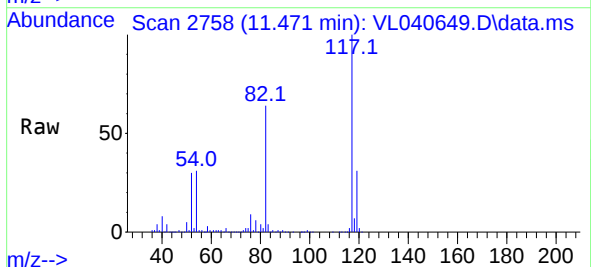
Instrument :
MSVOA_L
ClientSampleId :

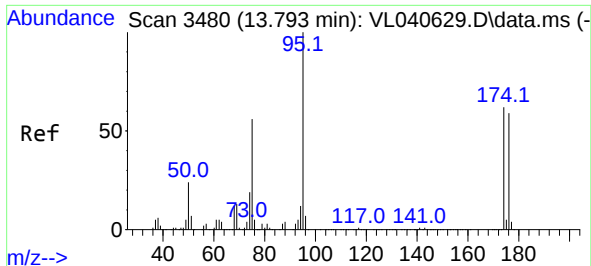
Tgt Ion: 91 Resp: 16390
Ion Ratio Lower Upper
91 100
92 103.5 48.0 72.0#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.010 min
Lab File: VL040649.D
Acq: 5 Sep 2023 16:08

Tgt Ion: 117 Resp: 2136952
Ion Ratio Lower Upper
117 100
82 65.7 49.5 74.3
119 33.1 24.5 36.7





#68

1-Bromo-4-Fluorobenzene

Concen: 10.285 ppbv

RT: 13.780 min Scan# 34

Delta R.T. -0.013 min

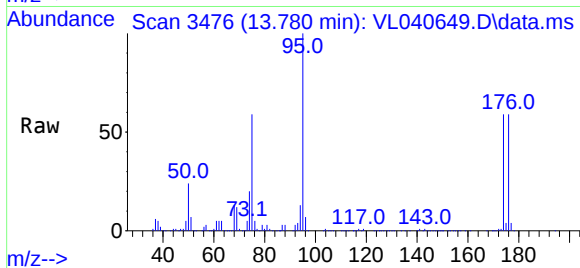
Lab File: VL040649.D

Acq: 5 Sep 2023 16:08

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 95 Resp: 1748013

Ion Ratio Lower Upper

95 100

174 61.3 49.1 73.7

175 4.1 3.7 5.5

