

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042195.D
 Acq On : 28 Mar 2025 00:06
 Operator : SY/MD
 Sample : Q1669-01DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-3-3262025DL

Quant Time: Mar 28 02:19:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

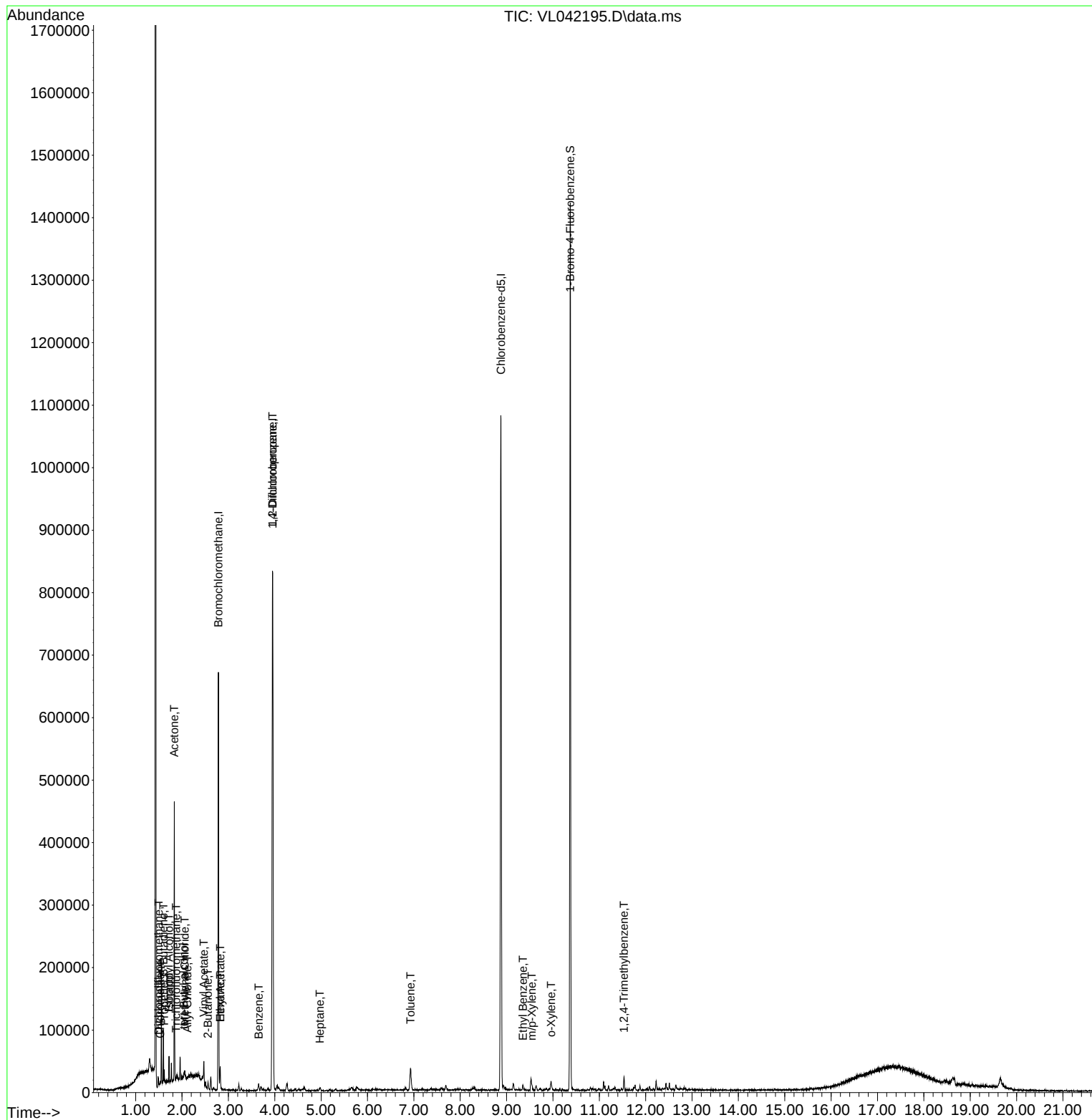
Internal Standards						
1) Bromochloromethane	2.784	49	175494	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	495493	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	449375	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	365476	9.904	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	2323	0.090	ppbv #	63
4) Chloromethane	1.528	50	885	0.084	ppbv	95
9) Propene	1.615	41	1849	0.152	ppbv	96
10) Heptane	4.972	43	1355	0.042	ppbv #	68
11) Trichlorofluoromethane	1.874	101	1086	0.043	ppbv	87
13) Ethanol	1.719	45	13574	11.835	ppbv	85
15) Acetone	1.832	43	182020	7.416	ppbv	96
16) 1,3-Butadiene	1.599	39	7635	0.637	ppbv #	31
17) tert-Butyl alcohol	2.039	59	2983	0.098	ppbv #	58
19) Isopropyl Alcohol	1.719	45	13574	0.980	ppbv #	1
20) Methylene Chloride	2.059	84	2019	0.221	ppbv #	68
21) Allyl Chloride	2.114	41	549	0.032	ppbv #	26
23) Vinyl Acetate	2.470	43	10533	0.992	ppbv #	32
25) Ethyl Acetate	2.823	43	6375	0.100	ppbv #	77
26) Hexane	2.823	57	8040	0.327	ppbv #	32
34) 2-Butanone	2.557	43	6791	0.189	ppbv	100
36) Benzene	3.655	78	5647	0.115	ppbv	92
39) 1,2-Dichloropropane	3.952	63	129498	7.239	ppbv #	23
53) Toluene	6.927	91	24689	0.424	ppbv	97
58) Ethyl Benzene	9.351	91	4541	0.057	ppbv #	81
59) m/p-Xylene	9.545	91	2140	0.034	ppbv #	31
60) o-Xylene	9.963	91	5392	0.084	ppbv	94
74) 1,2,4-Trimethylbenzene	11.533	105	7390	0.092	ppbv #	59

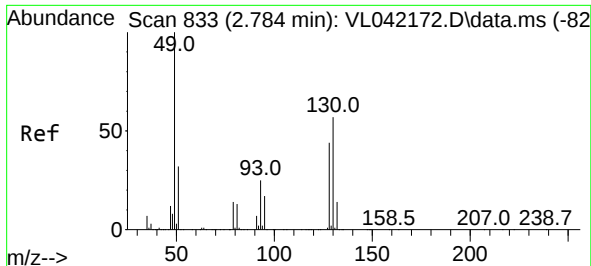
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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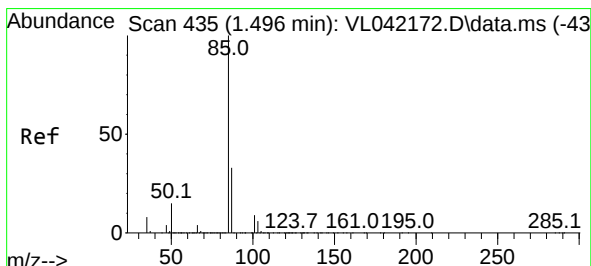
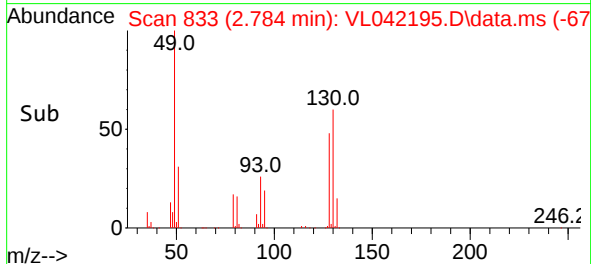
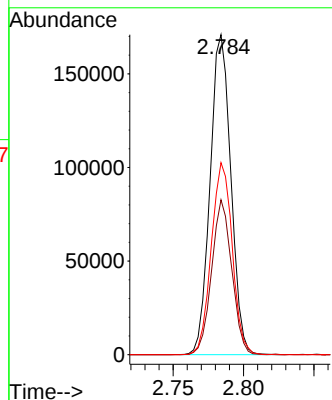
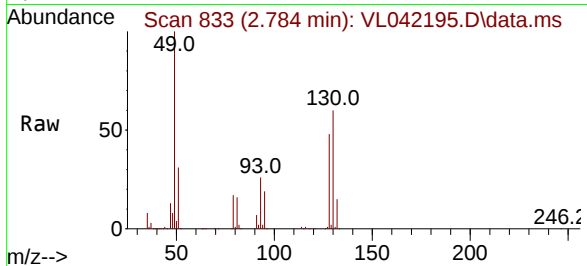




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 833
 Delta R.T. -0.000 min
 Lab File: VL042195.D
 Acq: 28 Mar 2025 00:06

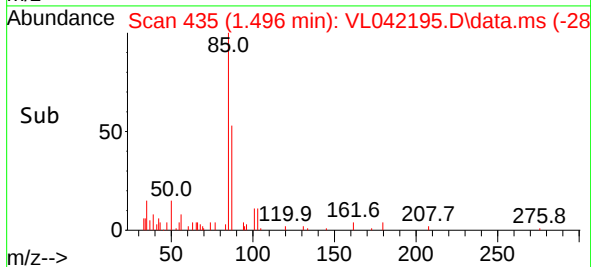
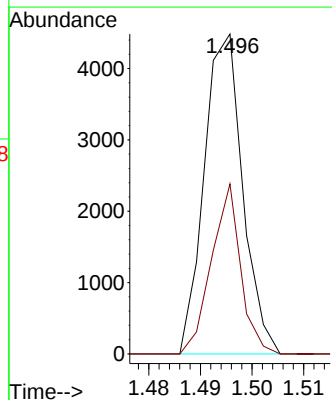
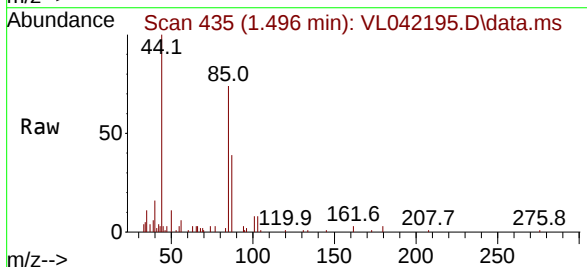
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-3-3262025DL

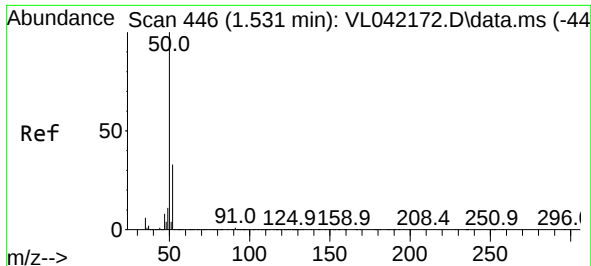
Tgt Ion: 49 Resp: 175494
 Ion Ratio Lower Upper
 49 100
 128 47.0 22.9 68.5
 130 60.4 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.090 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.000 min
 Lab File: VL042195.D
 Acq: 28 Mar 2025 00:06

Tgt Ion: 85 Resp: 2323
 Ion Ratio Lower Upper
 85 100
 87 53.2 26.1 39.1#

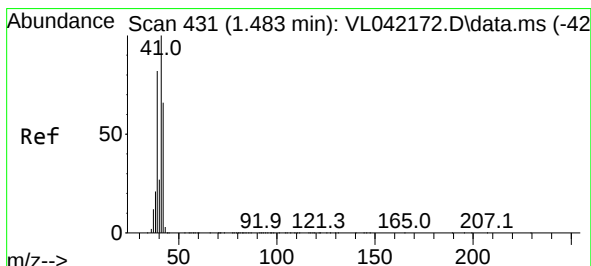
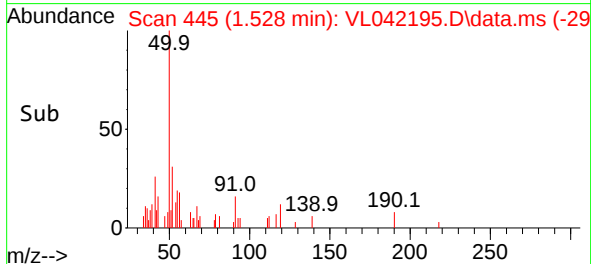
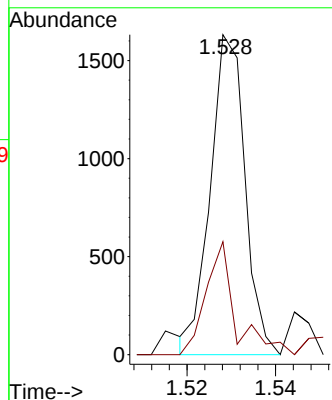
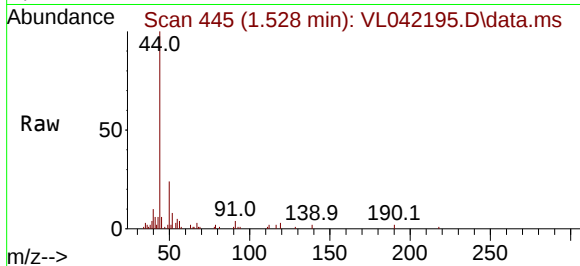




#4
Chloromethane
Concen: 0.084 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.003 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

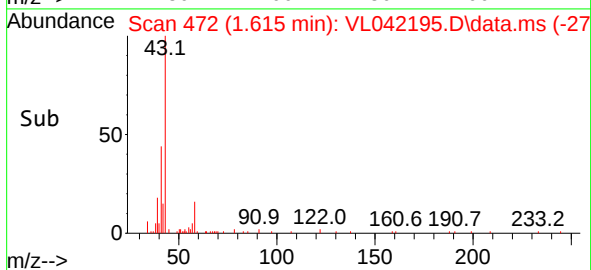
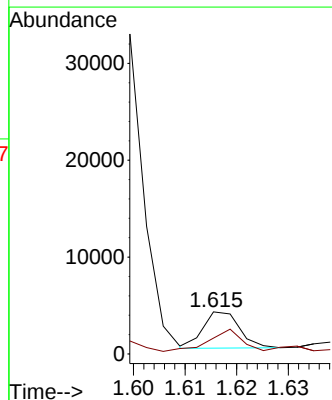
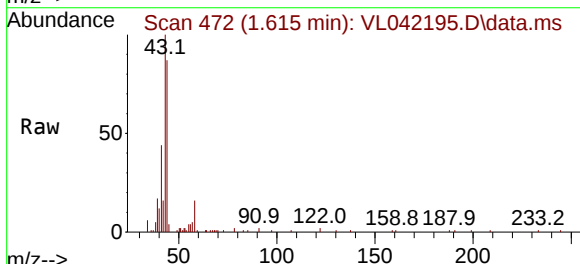
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3262025DL

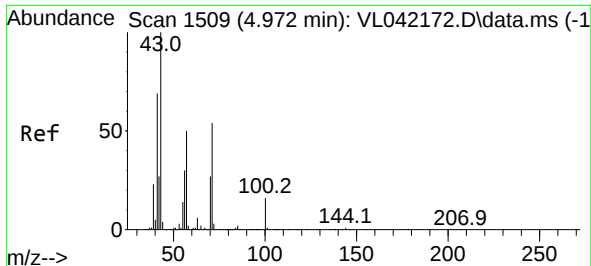
Tgt Ion: 50 Resp: 885
Ion Ratio Lower Upper
50 100
52 35.3 26.1 39.1



#9
Propene
Concen: 0.152 ppbv
RT: 1.615 min Scan# 472
Delta R.T. 0.133 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

Tgt Ion: 41 Resp: 1849
Ion Ratio Lower Upper
41 100
42 66.0 55.4 83.2

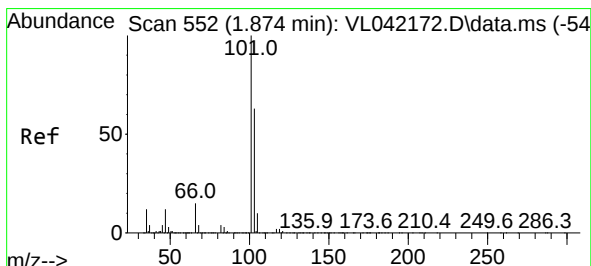
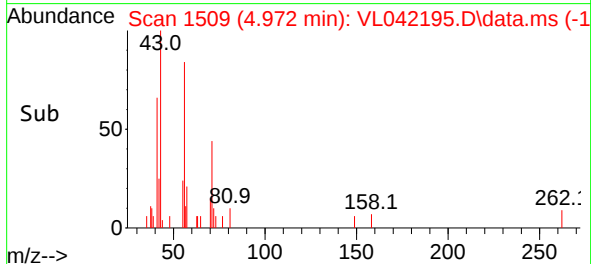
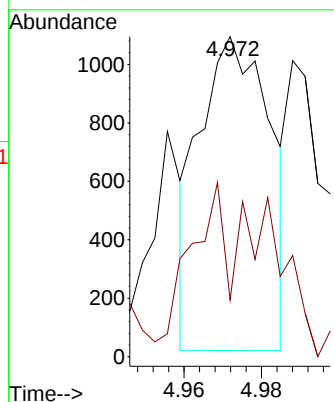
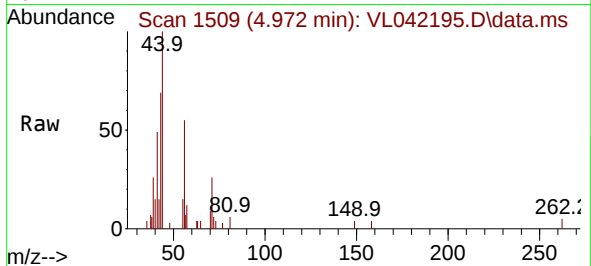




#10
Heptane
Concen: 0.042 ppbv
RT: 4.972 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

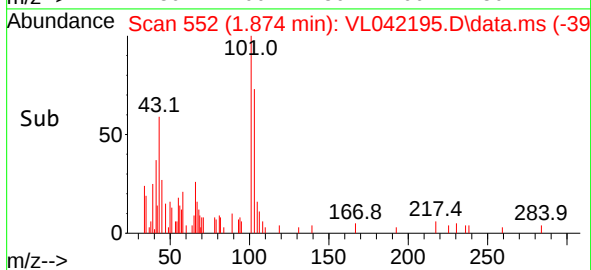
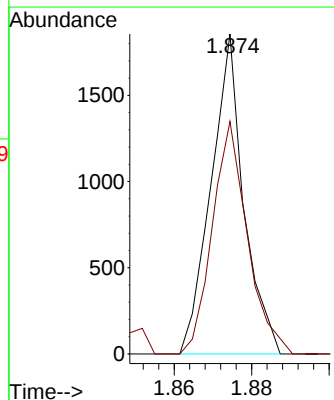
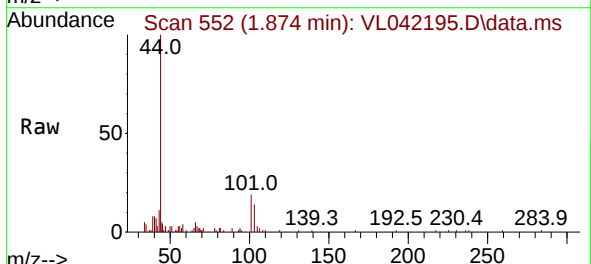
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ClientSampleId :
IA-B9-3-3262025DL

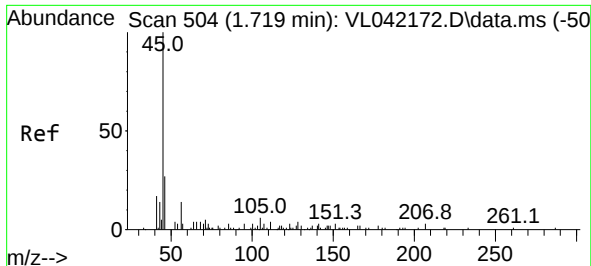
Tgt Ion: 43 Resp: 1355
Ion Ratio Lower Upper
43 100
57 71.4 39.4 59.2#



#11
Trichlorofluoromethane
Concen: 0.043 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.000 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

Tgt Ion: 101 Resp: 1086
Ion Ratio Lower Upper
101 100
103 72.6 50.2 75.2

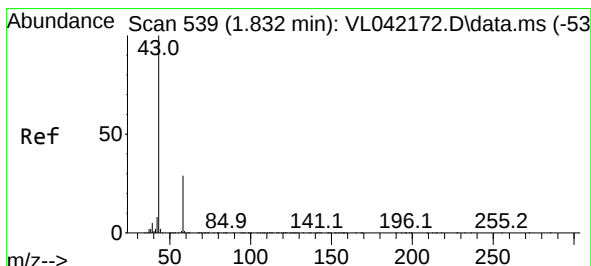
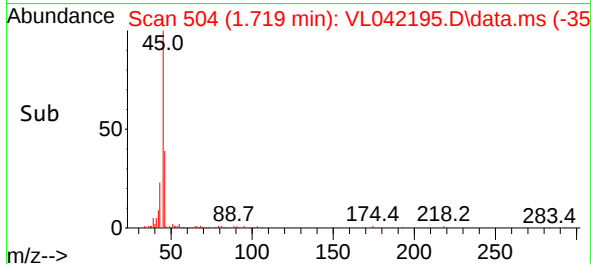
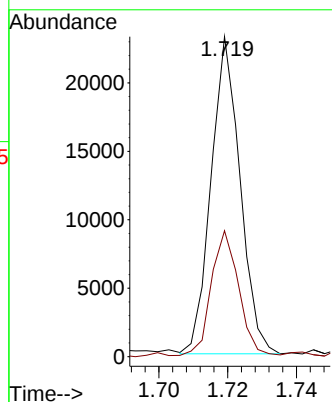
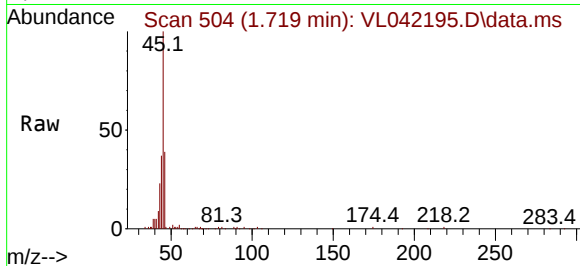




#13
 Ethanol
 Concen: 11.835 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. -0.000 min
 Lab File: VL042195.D
 Acq: 28 Mar 2025 00:06

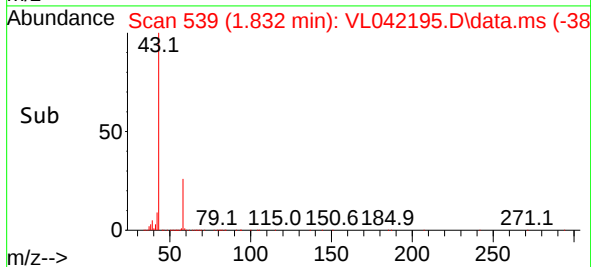
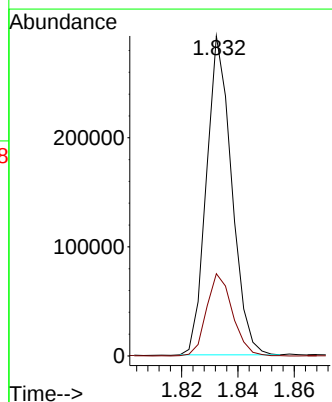
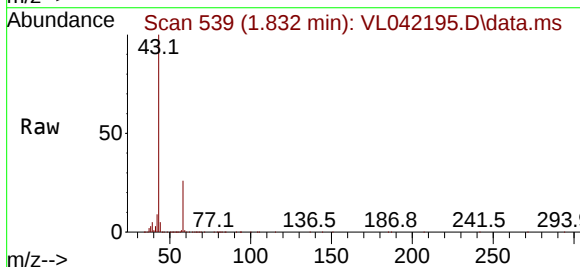
Instrument :
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 ClientSampleId :
 IA-B9-3-3262025DL

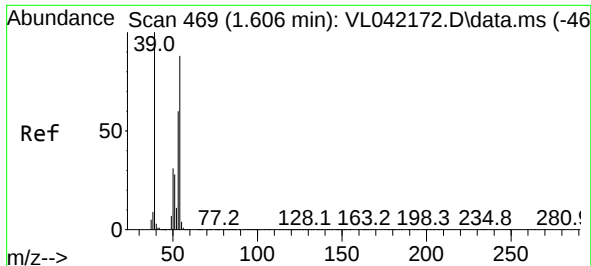
Tgt Ion: 45 Resp: 13574
 Ion Ratio Lower Upper
 45 100
 46 40.2 20.2 80.8



#15
 Acetone
 Concen: 7.416 ppbv
 RT: 1.832 min Scan# 539
 Delta R.T. -0.000 min
 Lab File: VL042195.D
 Acq: 28 Mar 2025 00:06

Tgt Ion: 43 Resp: 182020
 Ion Ratio Lower Upper
 43 100
 58 26.8 23.2 34.8





#16

1,3-Butadiene

Concen: 0.637 ppbv

RT: 1.599 min Scan# 467

Delta R.T. -0.007 min

Lab File: VL042195.D

Acq: 28 Mar 2025 00:06

Instrument :

MSVOA_L

ClientSampleId :

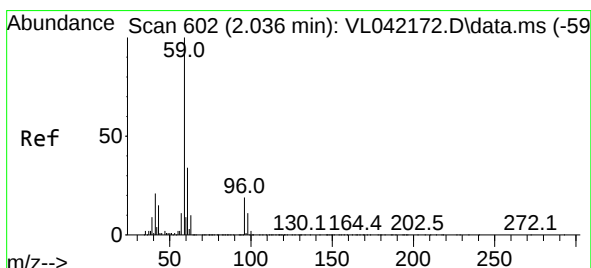
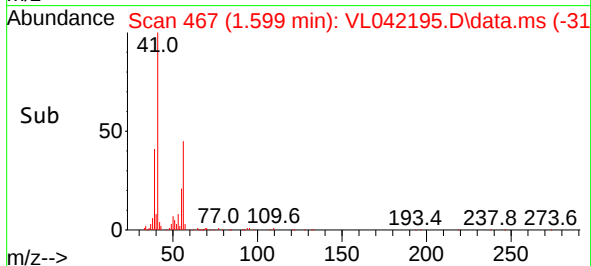
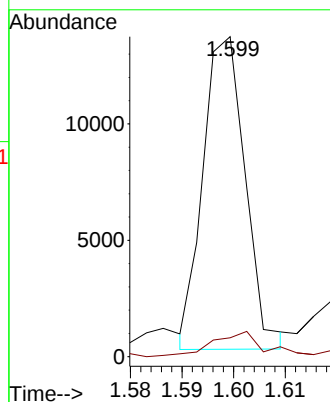
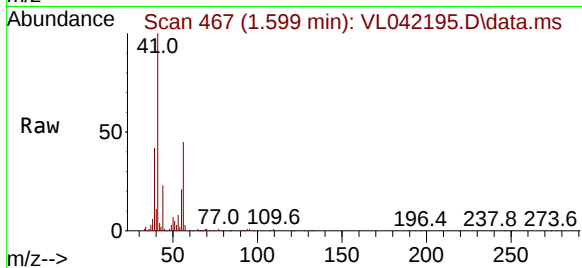
IA-B9-3-3262025DL

Tgt Ion: 39 Resp: 7635

Ion Ratio Lower Upper

39 100

54 17.1 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.098 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042195.D

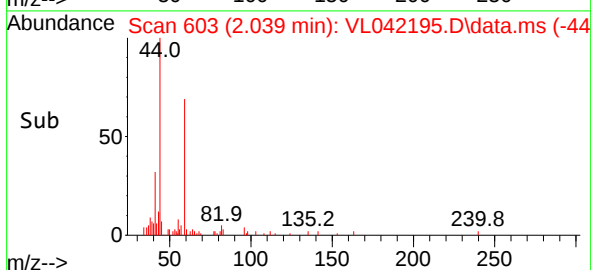
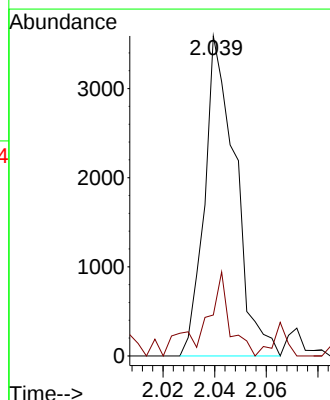
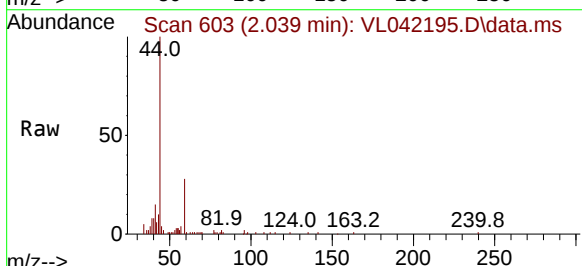
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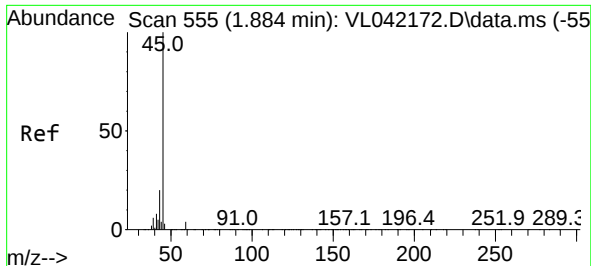
Tgt Ion: 59 Resp: 2983

Ion Ratio Lower Upper

59 100

57 27.3 8.9 13.3#

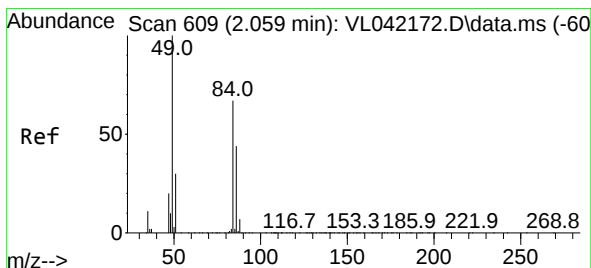
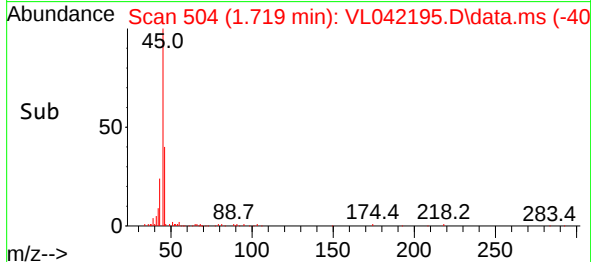
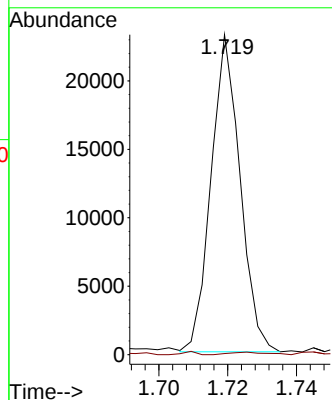
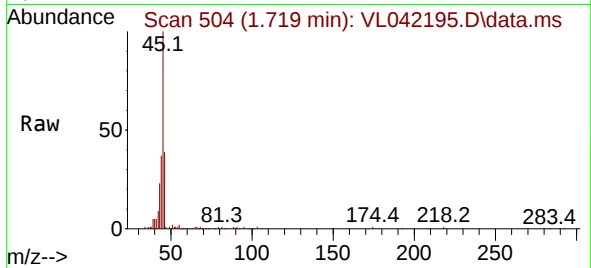




#19
Isopropyl Alcohol
Concen: 0.980 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.165 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

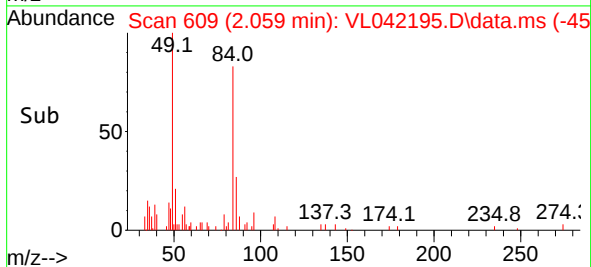
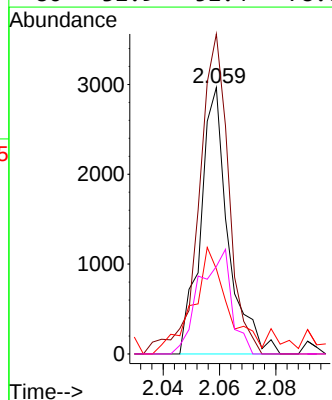
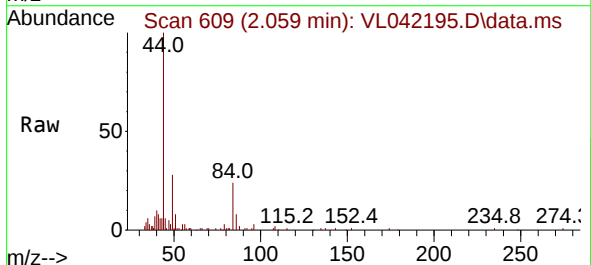
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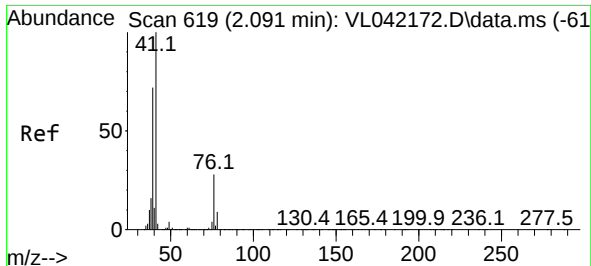
Tgt Ion: 45 Resp: 13574
Ion Ratio Lower Upper
45 100
58 358.8 36.9 55.3#



#20
Methylene Chloride
Concen: 0.221 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

Tgt Ion: 84 Resp: 2019
Ion Ratio Lower Upper
84 100
49 111.6 120.2 180.4#
51 31.6 37.4 56.0#
86 32.9 52.4 78.6#





#21

Allyl Chloride

Concen: 0.032 ppbv

RT: 2.114 min Scan# 61

Delta R.T. 0.023 min

Lab File: VL042195.D

Acq: 28 Mar 2025 00:06

Instrument :

MSVOA_L

ClientSampleId :

IA-B9-3-3262025DL

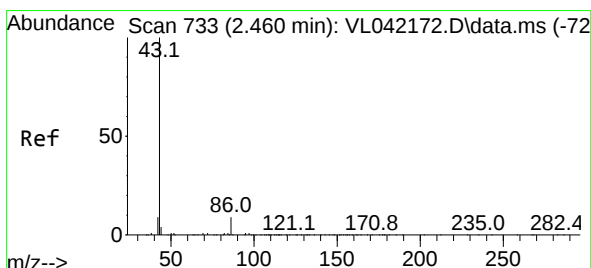
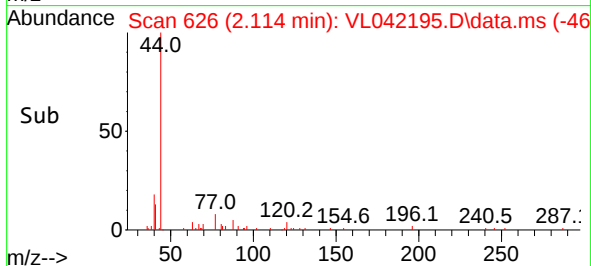
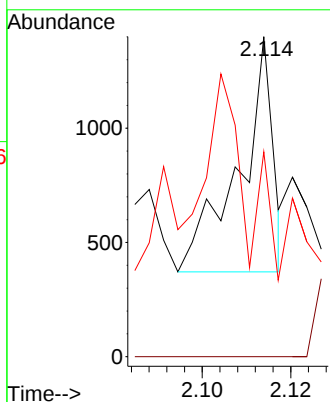
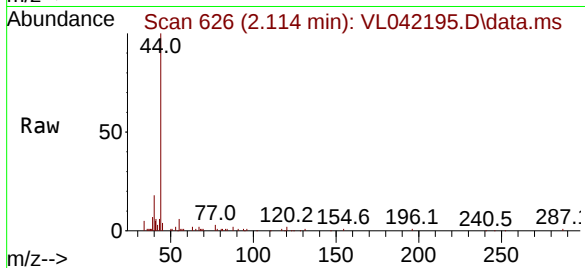
Tgt Ion: 41 Resp: 549

Ion Ratio Lower Upper

41 100

76 0.0 24.1 36.1#

39 146.1 61.1 91.7#



#23

Vinyl Acetate

Concen: 0.992 ppbv

RT: 2.470 min Scan# 736

Delta R.T. 0.010 min

Lab File: VL042195.D

Acq: 28 Mar 2025 00:06

Tgt Ion: 43 Resp: 10533

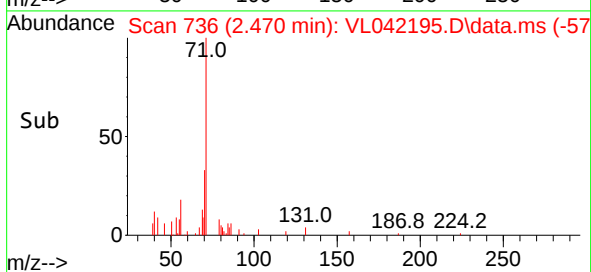
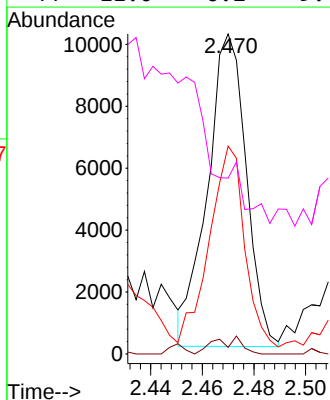
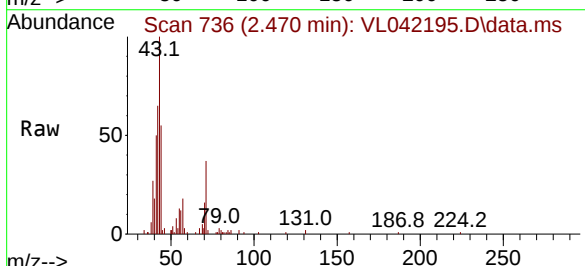
Ion Ratio Lower Upper

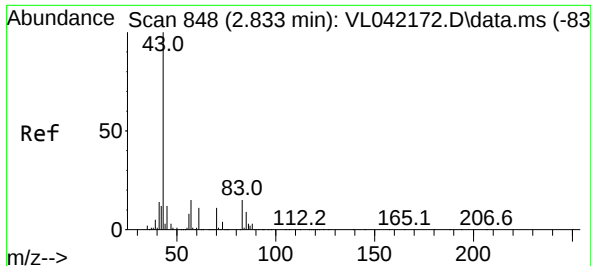
43 100

86 2.1 5.5 8.3#

42 65.2 8.6 13.0#

44 11.0 6.2 9.4#

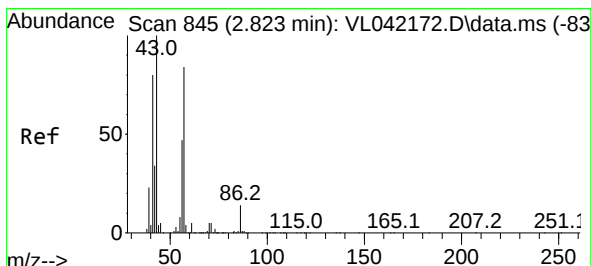
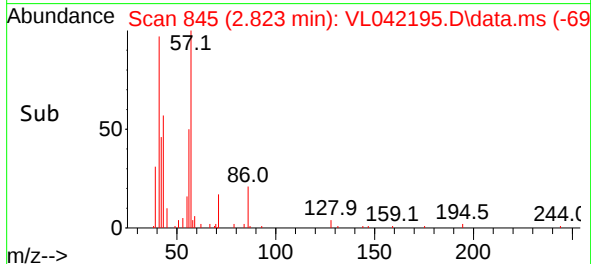
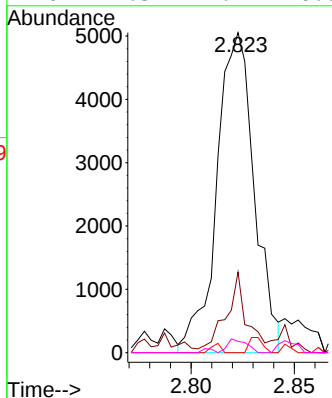
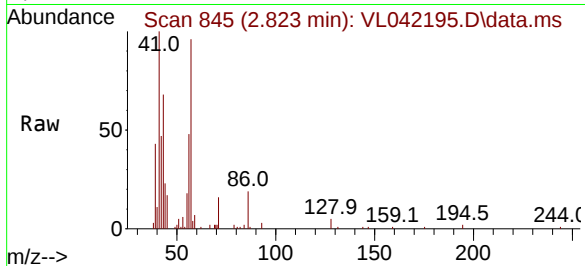




#25
Ethyl Acetate
Concen: 0.100 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.010 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

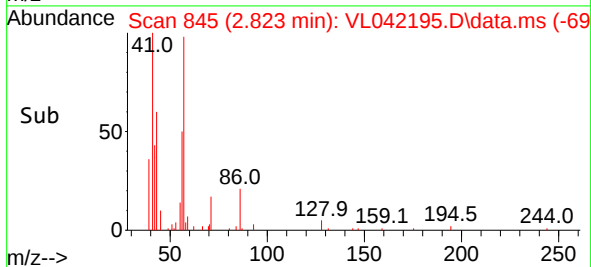
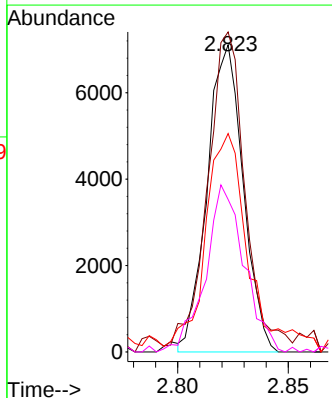
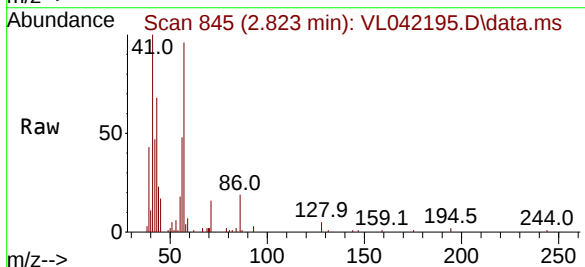
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3262025DL

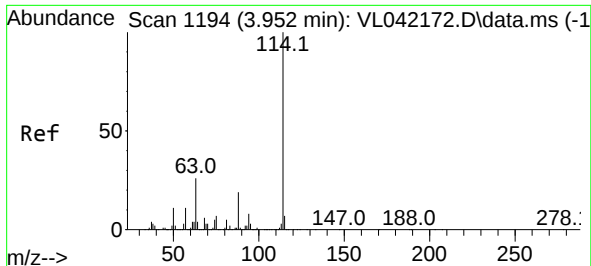
Tgt Ion:	43	Resp:	6375
Ion	Ratio	Lower	Upper
43	100		
45	22.8	8.2	12.2#
61	3.3	7.3	10.9#
70	2.5	7.2	10.8#



#26
Hexane
Concen: 0.327 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

Tgt Ion:	57	Resp:	8040
Ion	Ratio	Lower	Upper
57	100		
41	117.4	76.6	114.8#
43	86.5	207.8	311.8#
56	59.3	43.6	65.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042195.D

Acq: 28 Mar 2025 00:06

Instrument :

MSVOA_L

ClientSampleId :

IA-B9-3-3262025DL

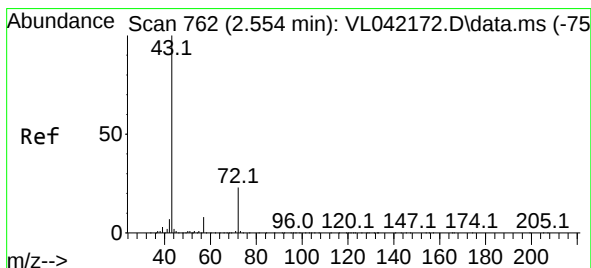
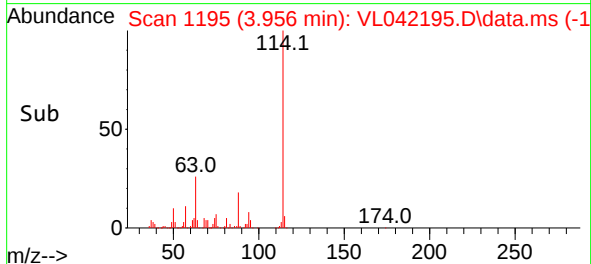
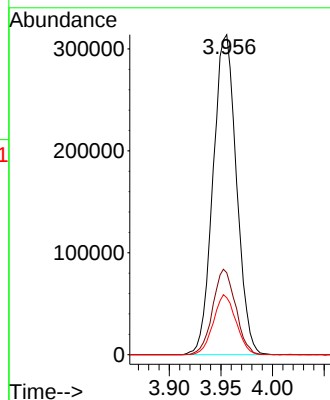
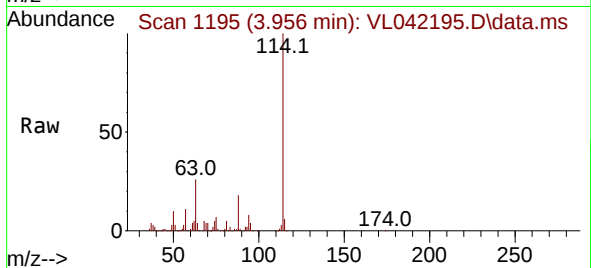
Tgt Ion:114 Resp: 495493

Ion Ratio Lower Upper

114 100

63 26.2 20.7 31.1

88 18.1 15.0 22.4



#34

2-Butanone

Concen: 0.189 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042195.D

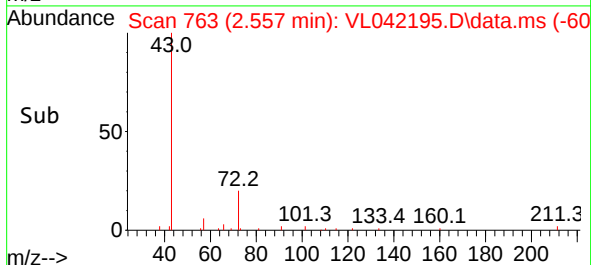
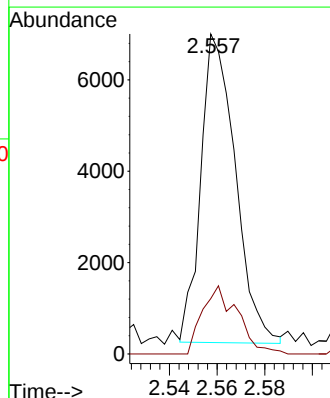
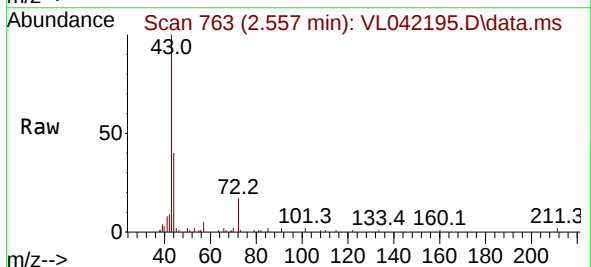
Acq: 28 Mar 2025 00:06

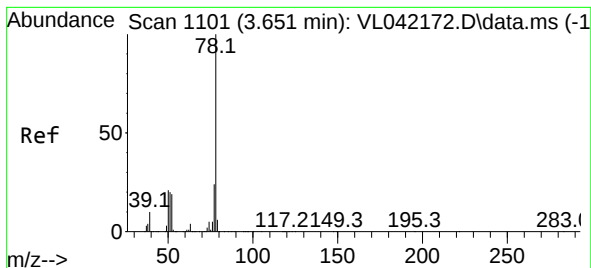
Tgt Ion: 43 Resp: 6791

Ion Ratio Lower Upper

43 100

72 22.7 18.2 27.2





#36

Benzene

Concen: 0.115 ppbv

RT: 3.655 min Scan# 1101

Delta R.T. 0.003 min

Lab File: VL042195.D

Acq: 28 Mar 2025 00:06

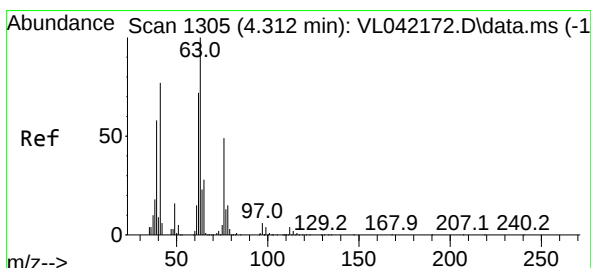
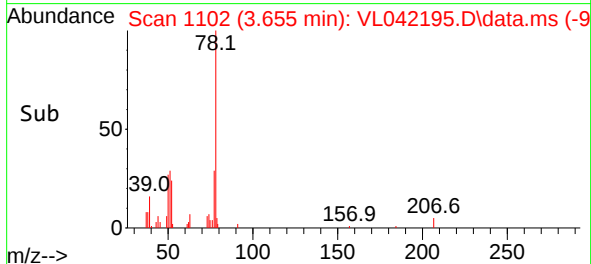
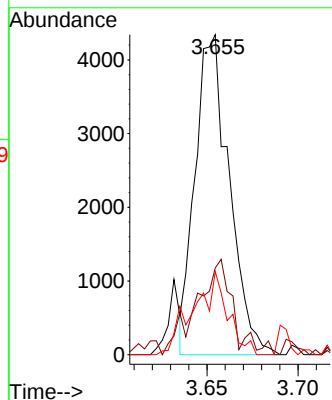
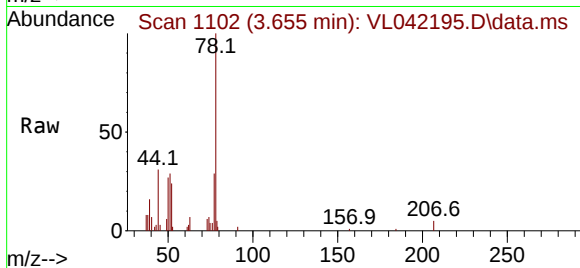
Instrument :

MSVOA_L

ClientSampleId :

IA-B9-3-3262025DL

Tgt Ion: 78	Resp: 5647
Ion Ratio	Lower Upper
78 100	
77 27.1	19.1 28.7
50 16.7	16.6 24.8



#39

1,2-Dichloropropane

Concen: 7.239 ppbv

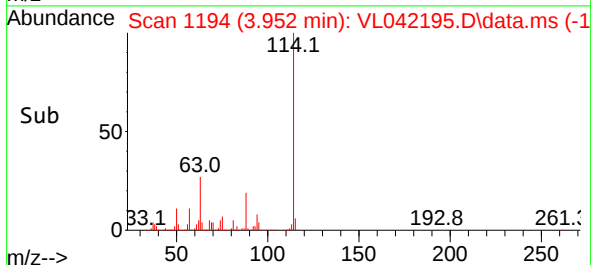
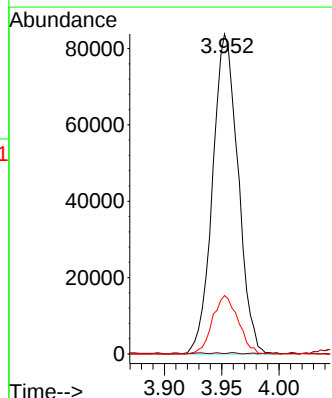
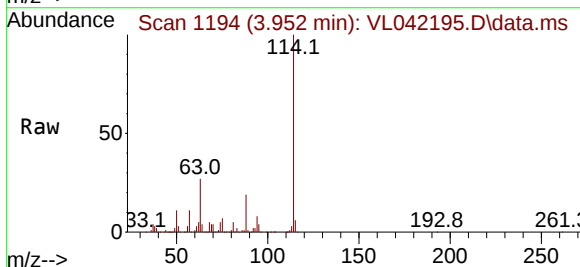
RT: 3.952 min Scan# 1194

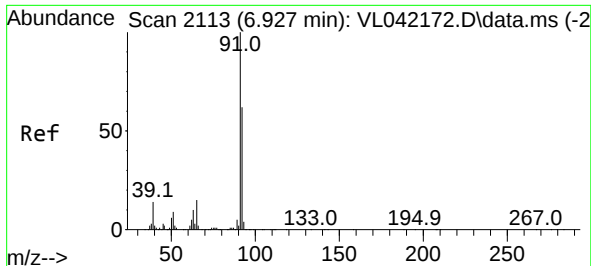
Delta R.T. -0.359 min

Lab File: VL042195.D

Acq: 28 Mar 2025 00:06

Tgt Ion: 63	Resp: 129498
Ion Ratio	Lower Upper
63 100	
41 0.0	61.7 92.5#
62 18.3	57.6 86.4#

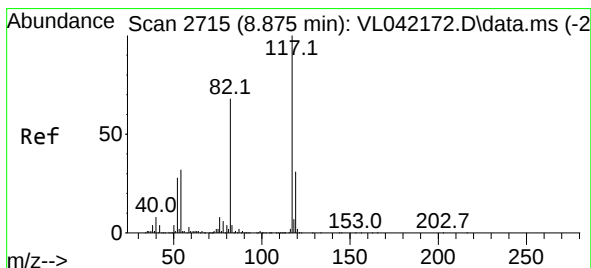
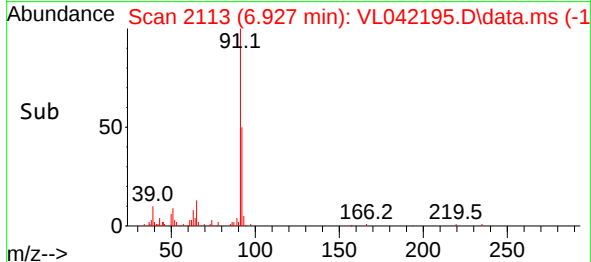
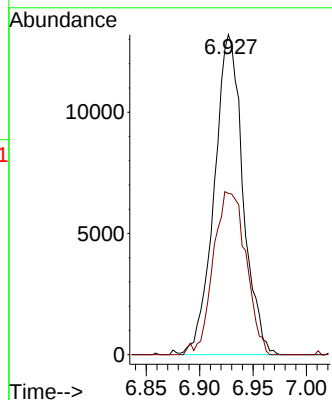
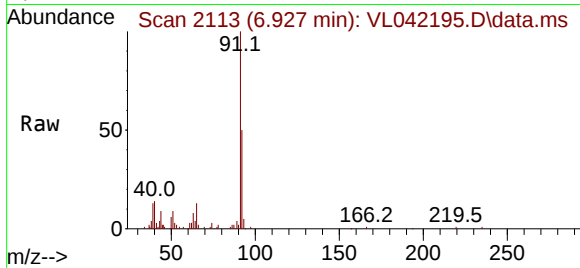




#53
Toluene
Concen: 0.424 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

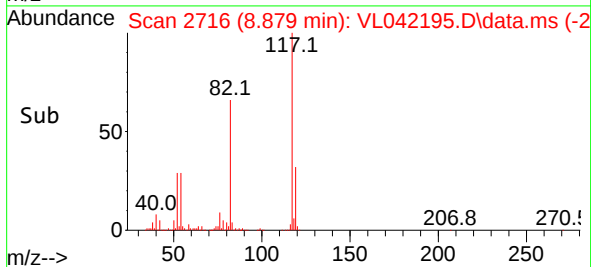
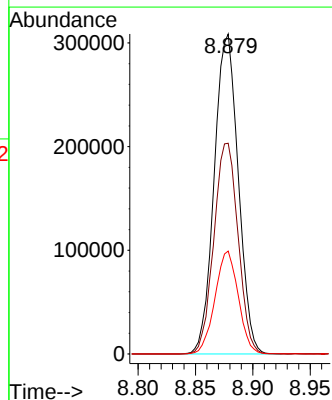
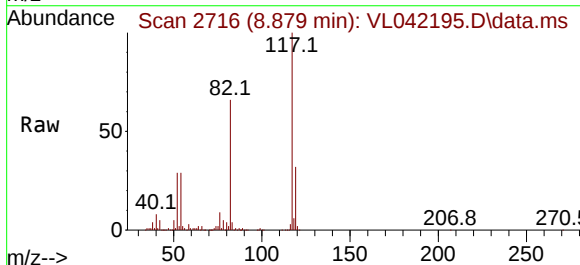
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3262025DL

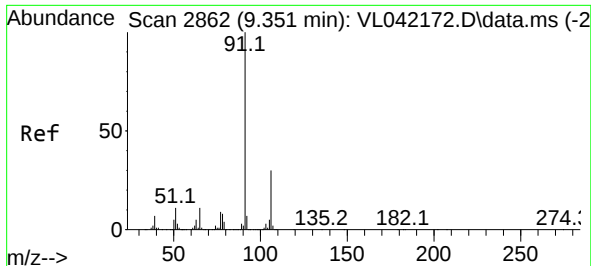
Tgt Ion: 91 Resp: 24689
Ion Ratio Lower Upper
91 100
92 58.1 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

Tgt Ion: 117 Resp: 449375
Ion Ratio Lower Upper
117 100
82 66.4 55.8 83.6
119 31.3 25.5 38.3

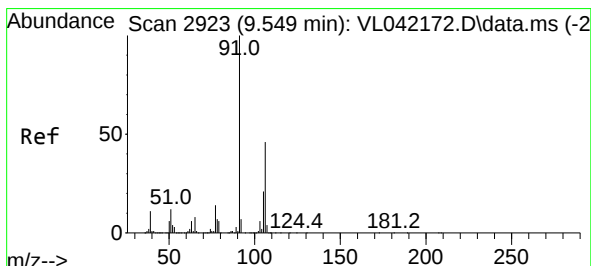
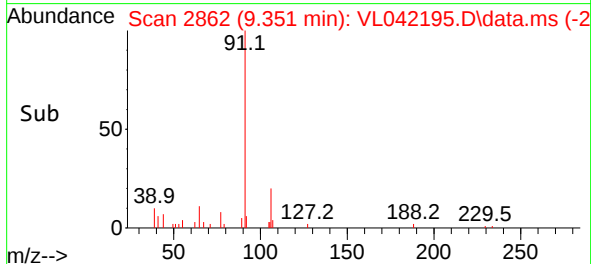
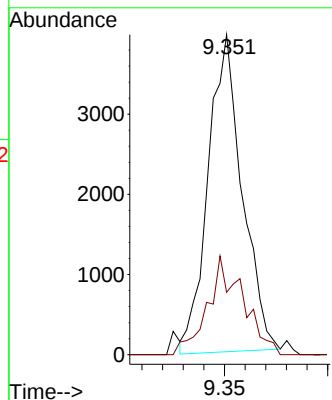
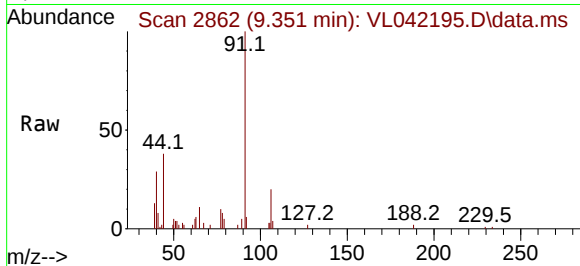




#58
Ethyl Benzene
Concen: 0.057 ppbv
RT: 9.351 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

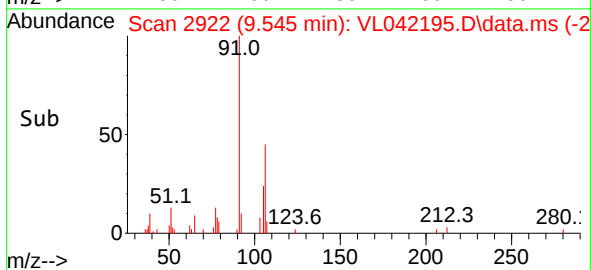
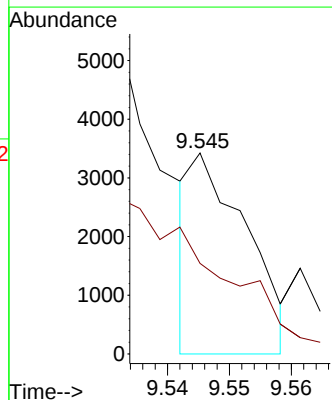
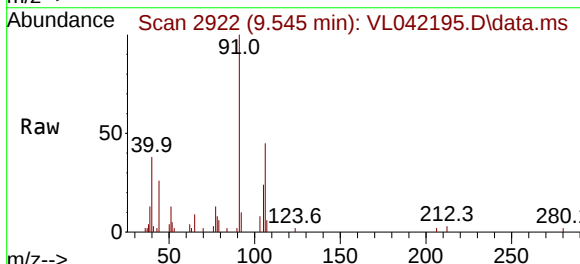
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3262025DL

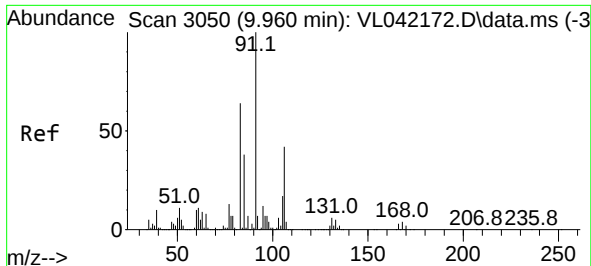
Tgt Ion: 91 Resp: 4541
Ion Ratio Lower Upper
91 100
106 19.9 24.2 36.2#



#59
m/p-Xylene
Concen: 0.034 ppbv
RT: 9.545 min Scan# 2922
Delta R.T. -0.003 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

Tgt Ion: 91 Resp: 2140
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

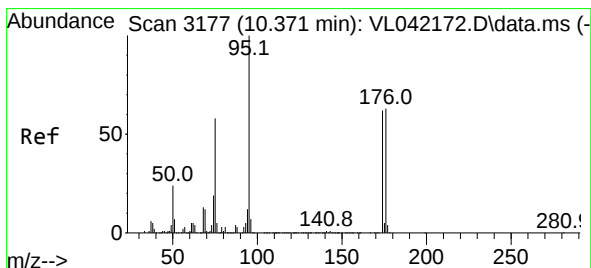
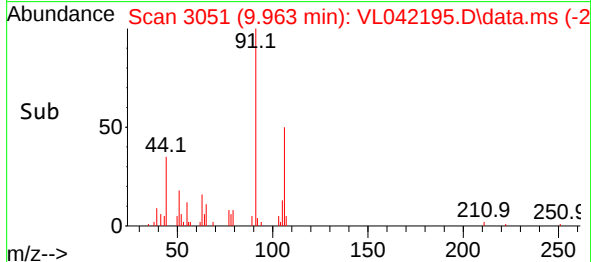
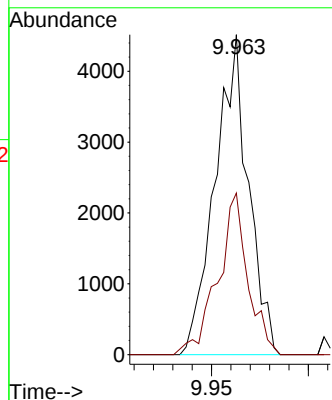
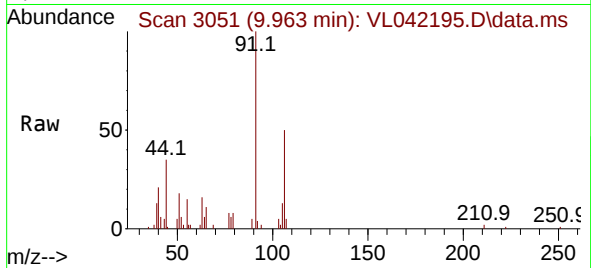




#60
o-Xylene
Concen: 0.084 ppbv
RT: 9.963 min Scan# 3050
Delta R.T. 0.003 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

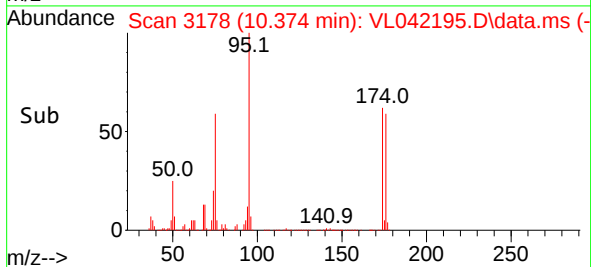
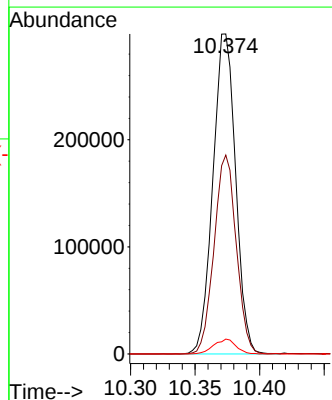
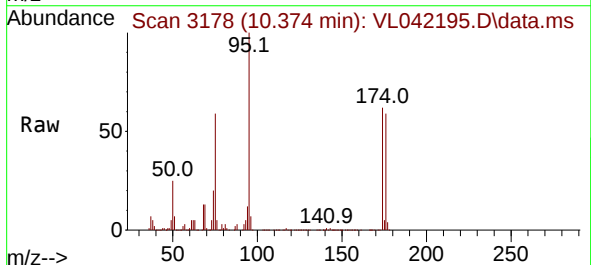
Instrument :
MSVOA_L
ClientSampleId :
IA-B9-3-3262025DL

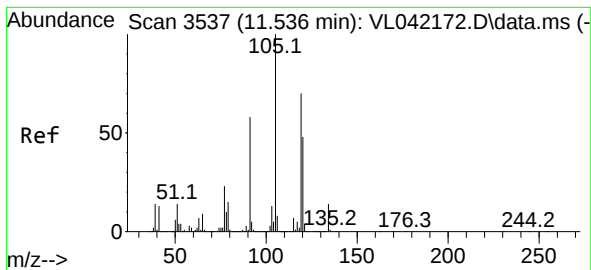
Tgt Ion: 91 Resp: 5392
Ion Ratio Lower Upper
91 100
106 45.6 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.904 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042195.D
Acq: 28 Mar 2025 00:06

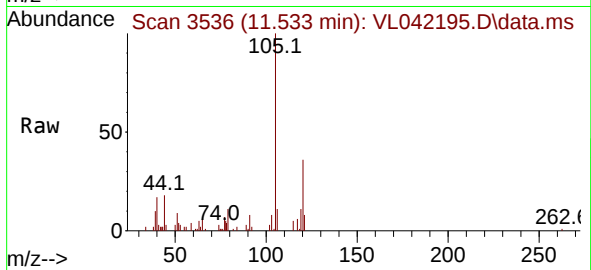
Tgt Ion: 95 Resp: 365476
Ion Ratio Lower Upper
95 100
174 60.7 50.6 76.0
175 4.6 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.092 ppbv
 RT: 11.533 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL042195.D
 Acq: 28 Mar 2025 00:06

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B9-3-3262025DL



Tgt Ion:	105	Resp:	7390
Ion	Ratio	Lower	Upper
105	100		
120	35.8	38.6	58.0#
91	8.2	46.2	69.2#
77	12.1	18.6	27.8#

