

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042445.D
 Acq On : 29 Apr 2025 14:19
 Operator : SY/MD
 Sample : Q1908-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 B-3

Quant Time: Apr 30 01:20:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

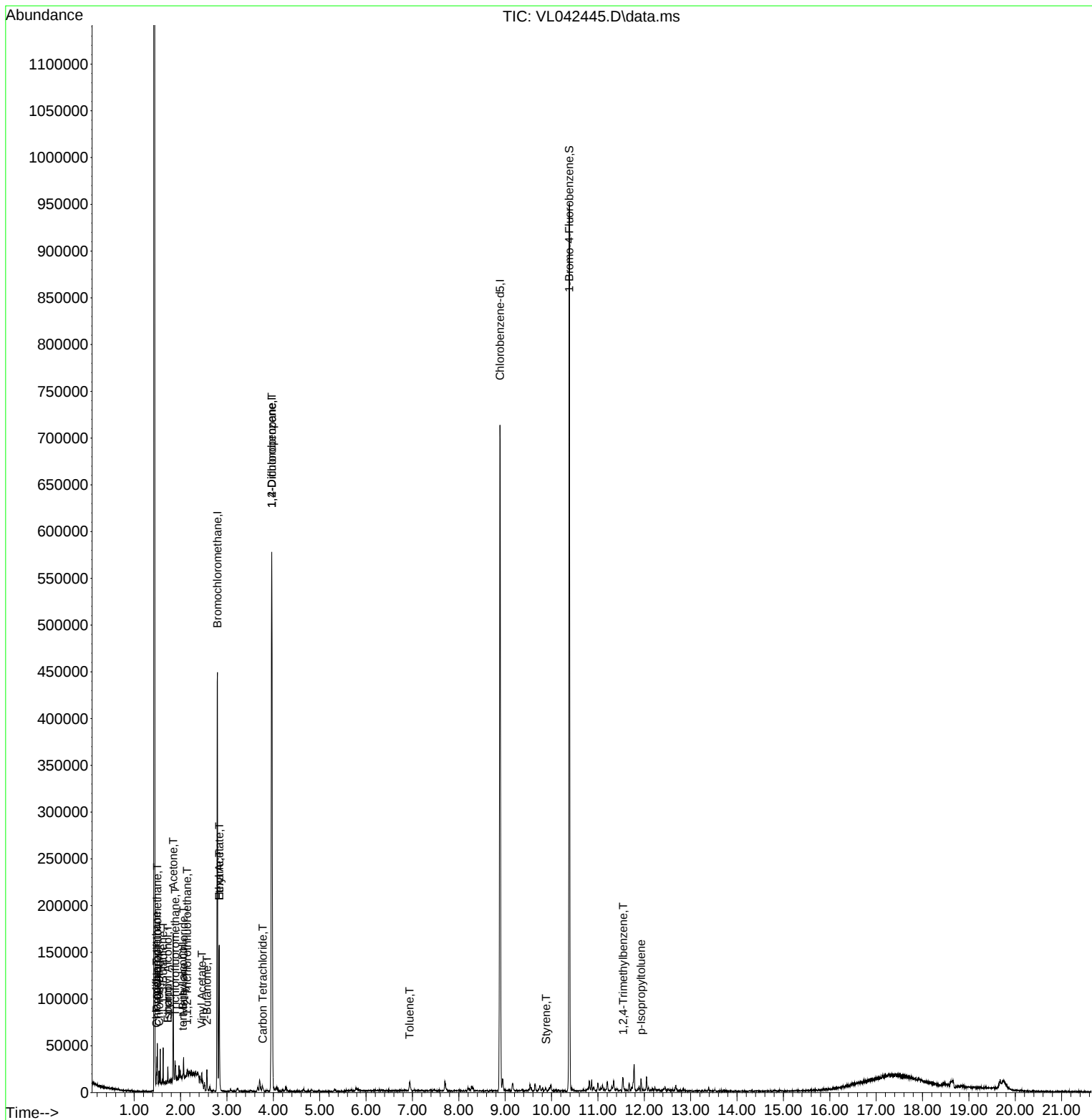
Internal Standards						
1) Bromochloromethane	2.794	49	116924	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.966	114	304231	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.889	117	256038	10.000	ppbv	0.00

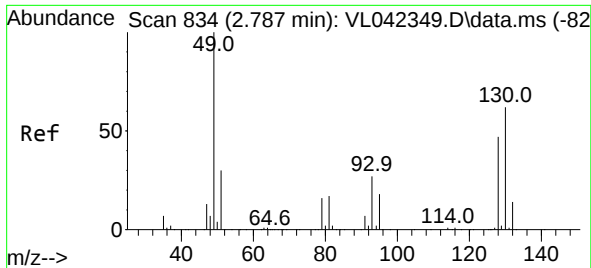
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	232994	11.074	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10212	0.494	ppbv	95
3) Chlorodifluoromethane	1.480	51	6658	0.338	ppbv	100
4) Chloromethane	1.535	50	3848	0.471	ppbv	94
9) Propene	1.490	41	2081	0.232	ppbv	96
11) Trichlorofluoromethane	1.881	101	4449	0.226	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.140	101	978	0.061	ppbv #	75
13) Ethanol	1.726	45	6146	4.316	ppbv #	24
15) Acetone	1.839	43	66029	3.450	ppbv	97
16) 1,3-Butadiene	1.622	39	2347	0.256	ppbv #	16
17) tert-Butyl alcohol	2.049	59	965	0.041	ppbv #	71
19) Isopropyl Alcohol	1.726	45	6146	0.578	ppbv #	63
20) Methylene Chloride	2.062	84	2823	0.377	ppbv #	81
23) Vinyl Acetate	2.457	43	5316	0.686	ppbv #	81
25) Ethyl Acetate	2.833	43	24301	0.515	ppbv #	77
26) Hexane	2.833	57	34265	1.794	ppbv #	30
34) 2-Butanone	2.567	43	12554	0.522	ppbv	97
35) Carbon Tetrachloride	3.775	117	1499	0.054	ppbv #	64
39) 1,2-Dichloropropane	3.966	63	85815	7.018	ppbv #	24
53) Toluene	6.940	91	6054	0.154	ppbv	97
61) Styrene	9.882	104	590	0.030	ppbv #	30
69) p-Isopropyltoluene	11.931	119	4106	0.061	ppbv	92
74) 1,2,4-Trimethylbenzene	11.543	105	2714	0.052	ppbv #	60

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

Quant Time: Apr 30 01:20:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

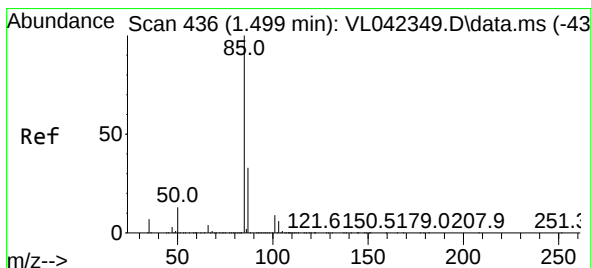
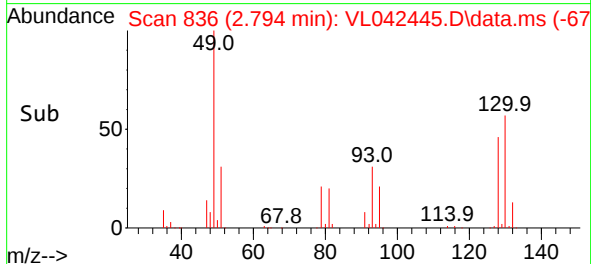
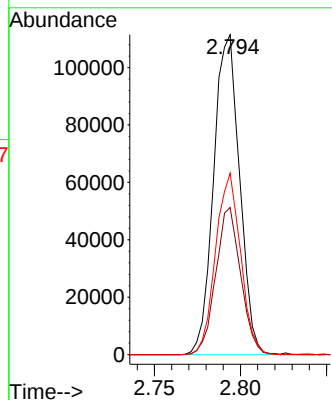
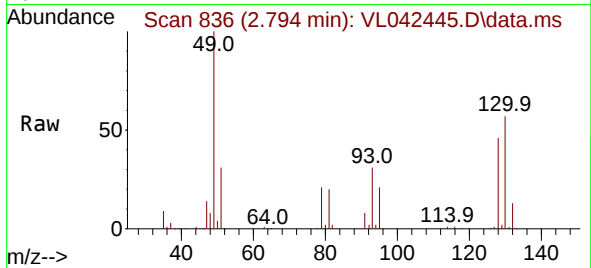




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

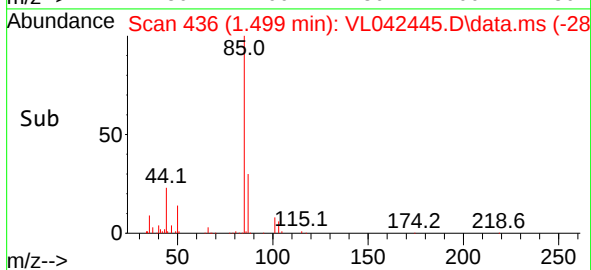
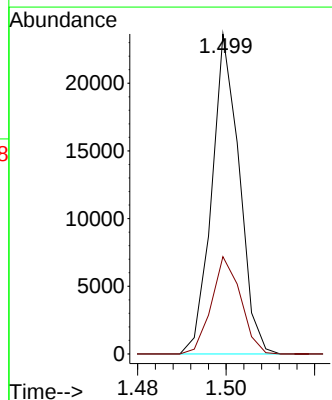
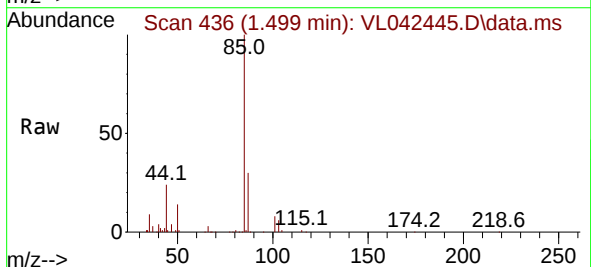
Instrument :
MSVOA_L
ClientSampleId :
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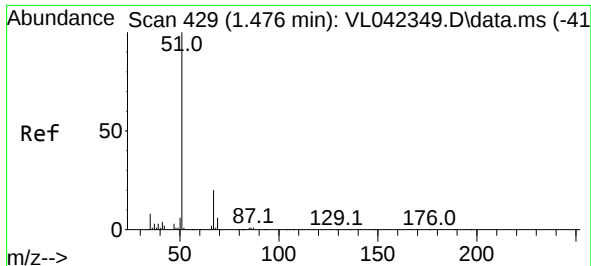
Tgt Ion: 49 Resp: 116924
Ion Ratio Lower Upper
49 100
128 44.4 22.8 68.4
130 54.8 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.494 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.001 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 85 Resp: 10212
Ion Ratio Lower Upper
85 100
87 30.4 26.6 39.8

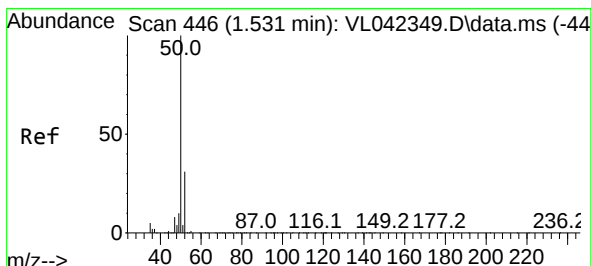
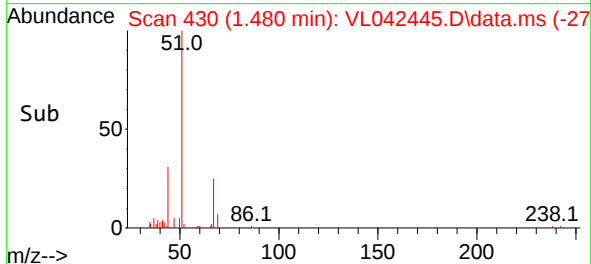
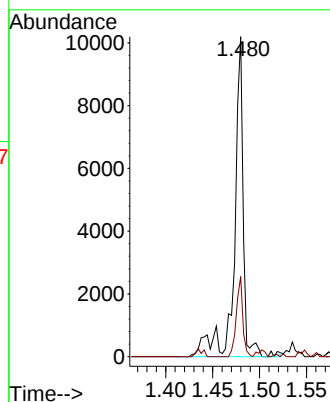
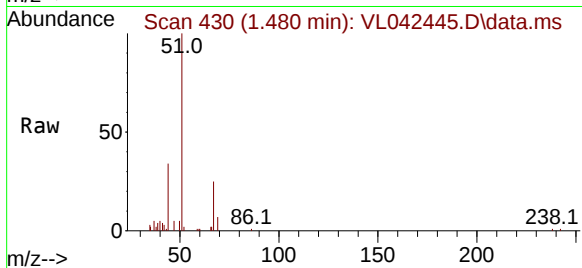




#3
Chlorodifluoromethane
Concen: 0.338 ppbv
RT: 1.480 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

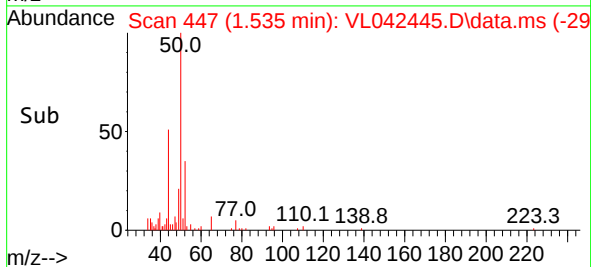
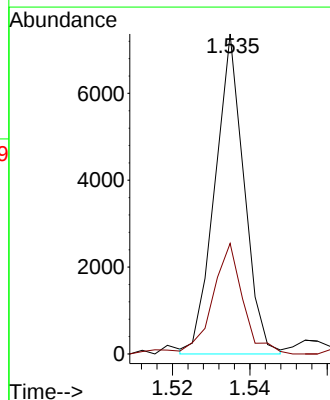
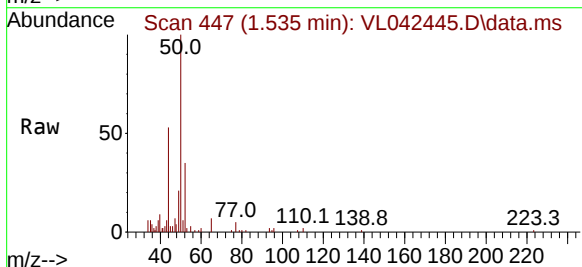
Instrument :
MSVOA_1
ClientSampleId :
B-3

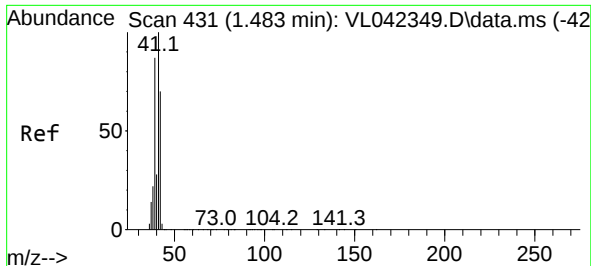
Tgt Ion: 51 Resp: 6658
Ion Ratio Lower Upper
51 100
67 20.4 16.2 24.4



#4
Chloromethane
Concen: 0.471 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 50 Resp: 3848
Ion Ratio Lower Upper
50 100
52 34.2 24.7 37.1





#9

Propene

Concen: 0.232 ppbv

RT: 1.490 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

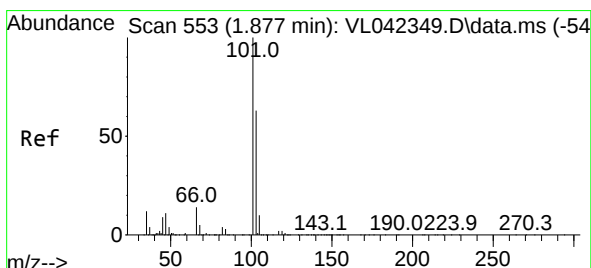
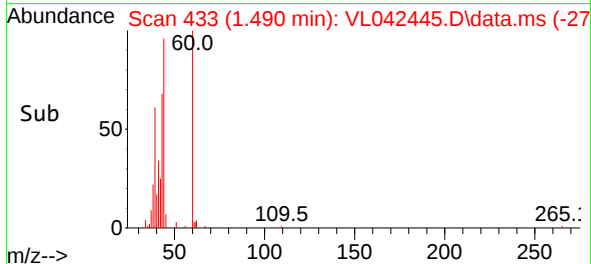
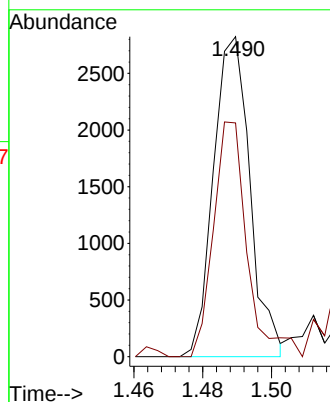
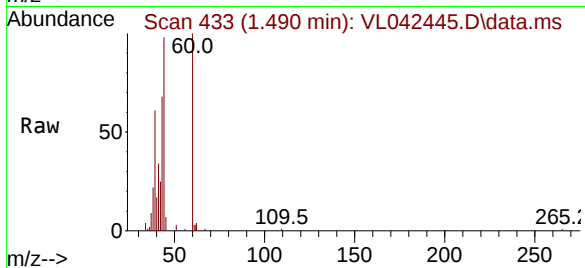
B-3

Tgt Ion: 41 Resp: 2081

Ion Ratio Lower Upper

41 100

42 67.3 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.226 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.004 min

Lab File: VL042445.D

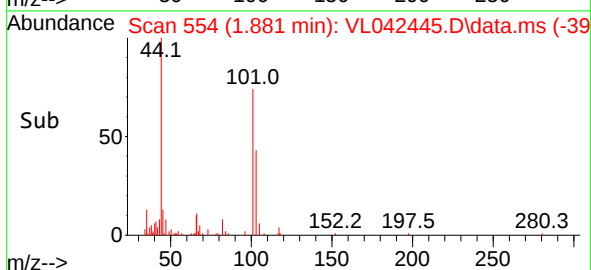
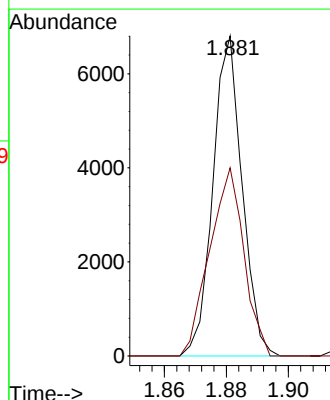
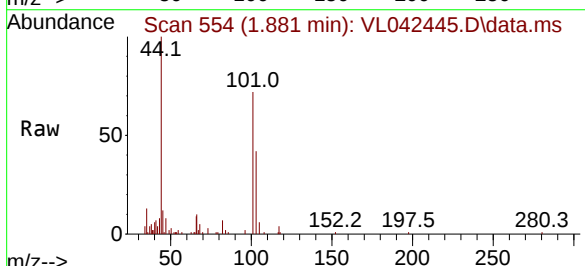
Acq: 29 Apr 2025 14:19

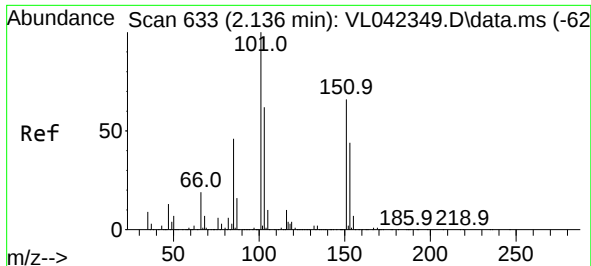
Tgt Ion: 101 Resp: 4449

Ion Ratio Lower Upper

101 100

103 58.8 50.1 75.1

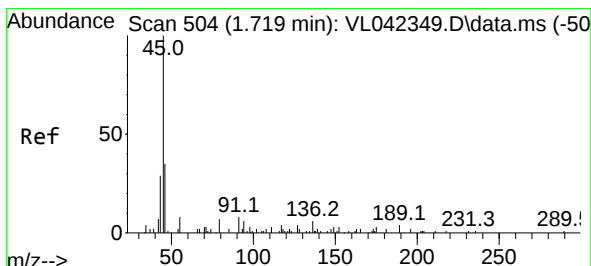
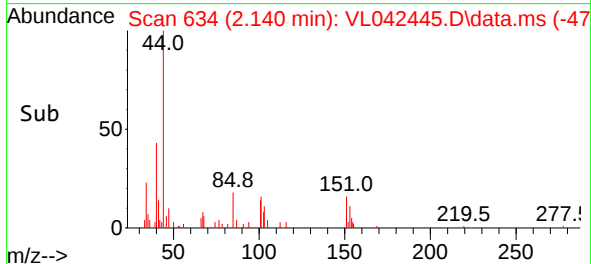
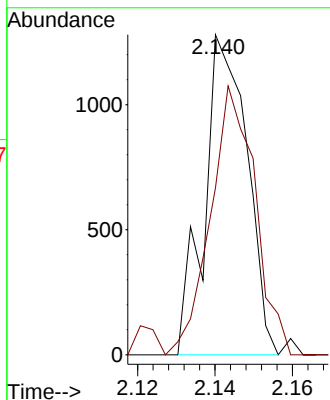
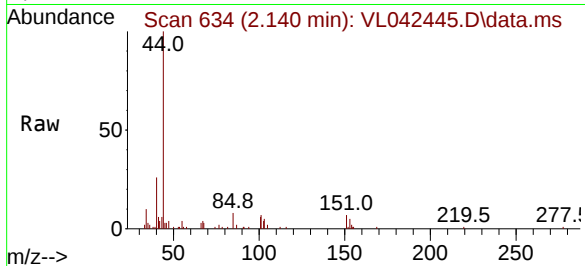




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.061 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

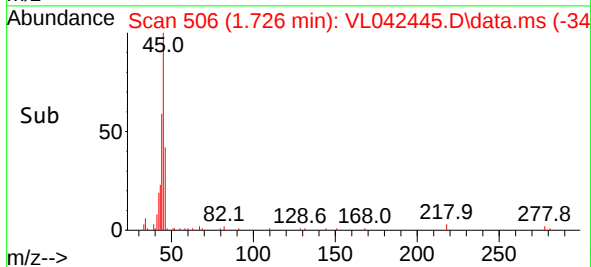
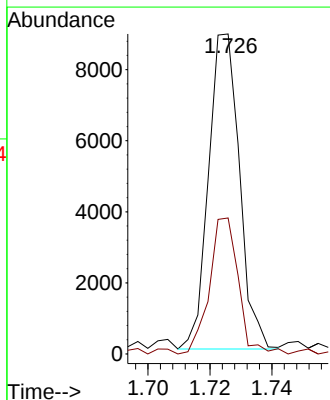
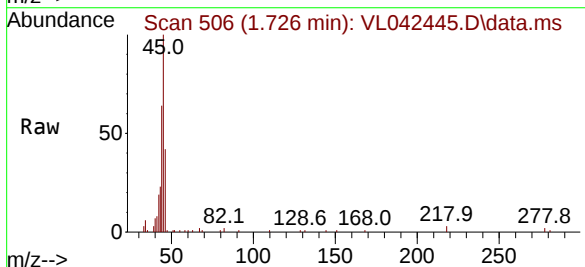
Instrument :
MSVOA_L
ClientSampleId :
B-3

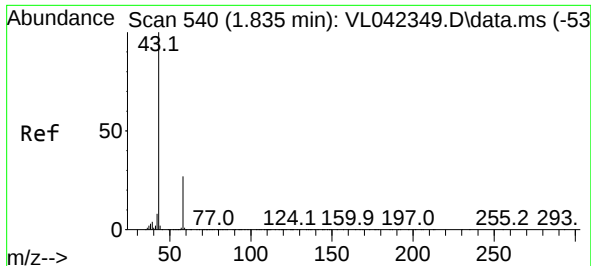
Tgt Ion:101 Resp: 978
Ion Ratio Lower Upper
101 100
151 91.8 57.0 85.6#



#13
Ethanol
Concen: 4.316 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 45 Resp: 6146
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#





#15

Acetone

Concen: 3.450 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.004 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

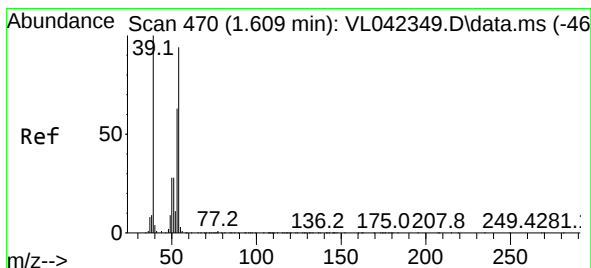
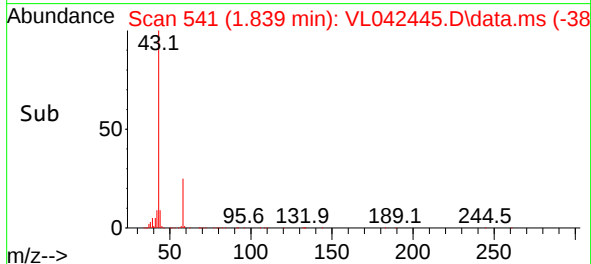
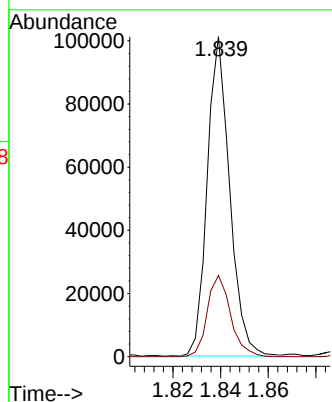
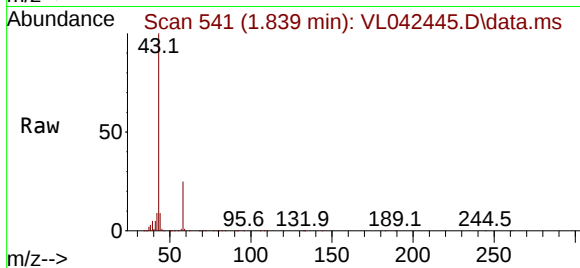
B-3

Tgt Ion: 43 Resp: 66029

Ion Ratio Lower Upper

43 100

58 26.4 22.4 33.6



#16

1,3-Butadiene

Concen: 0.256 ppbv

RT: 1.622 min Scan# 474

Delta R.T. 0.013 min

Lab File: VL042445.D

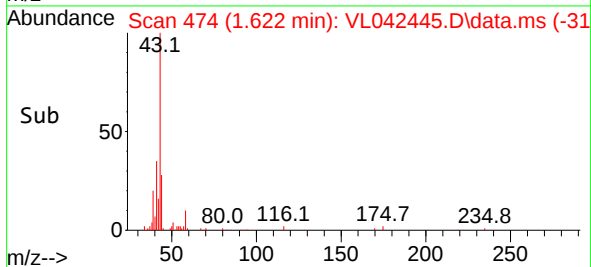
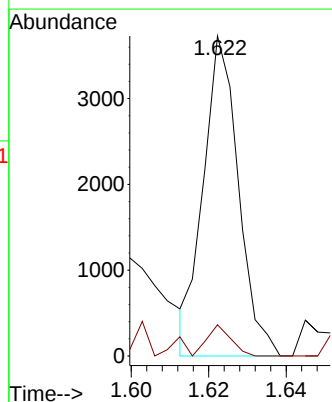
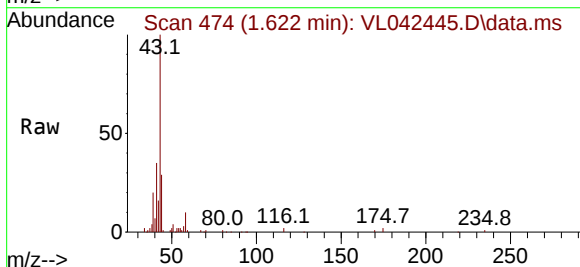
Acq: 29 Apr 2025 14:19

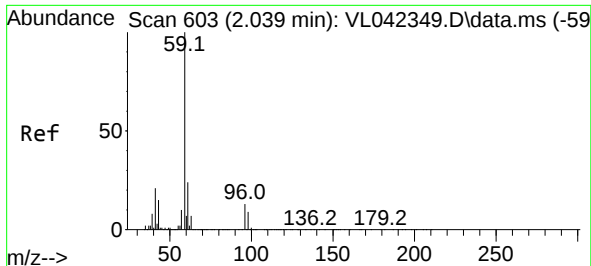
Tgt Ion: 39 Resp: 2347

Ion Ratio Lower Upper

39 100

54 6.6 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 2.049 min Scan# 603

Delta R.T. 0.010 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

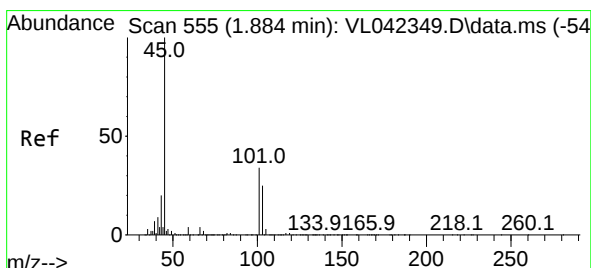
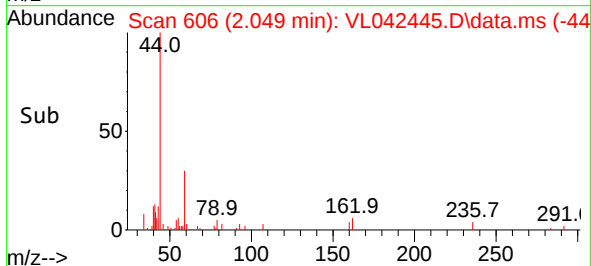
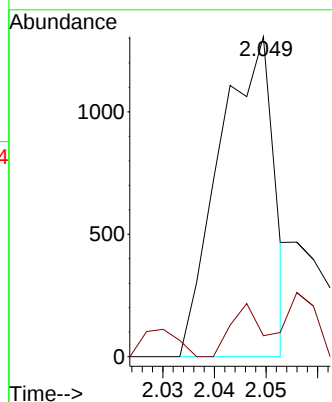
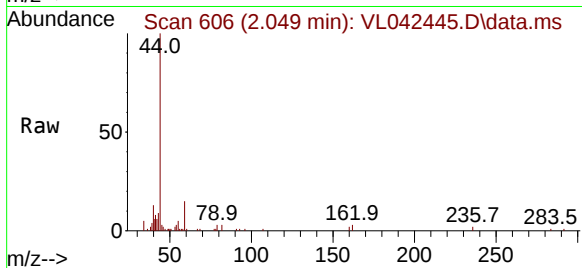
B-3

Tgt Ion: 59 Resp: 965

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 0.578 ppbv

RT: 1.726 min Scan# 506

Delta R.T. -0.158 min

Lab File: VL042445.D

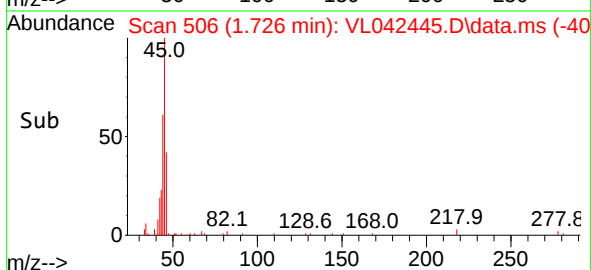
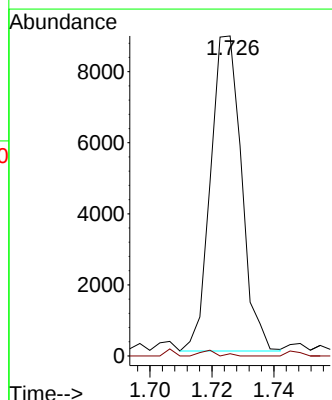
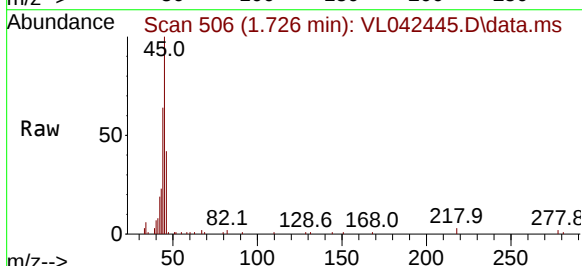
Acq: 29 Apr 2025 14:19

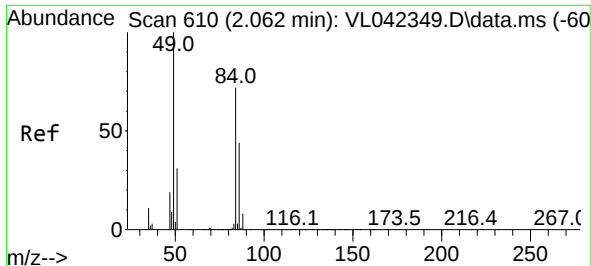
Tgt Ion: 45 Resp: 6146

Ion Ratio Lower Upper

45 100

58 19.3 34.5 51.7#

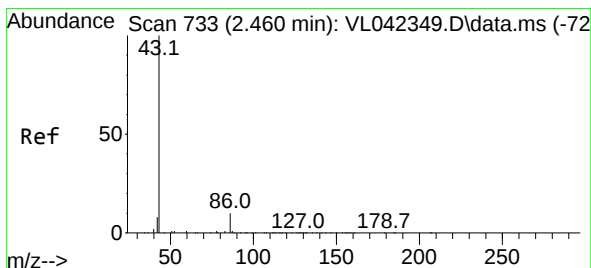
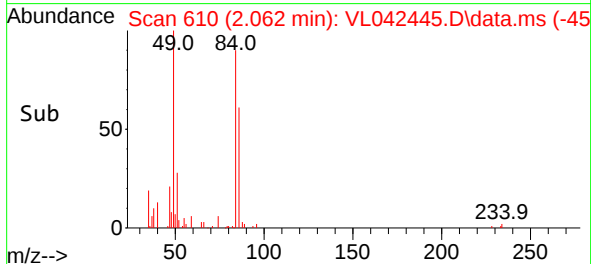
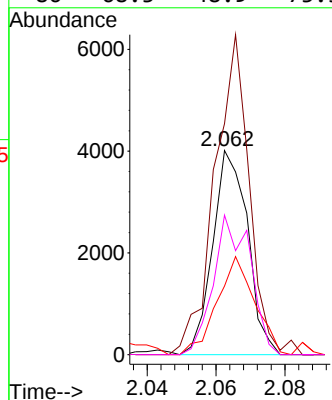
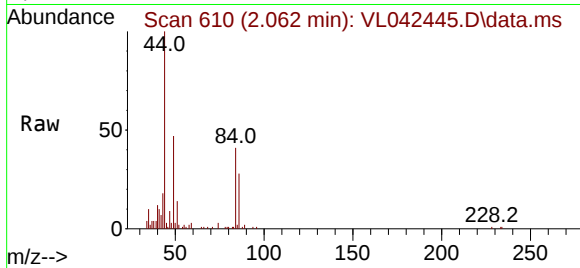




#20
Methylene Chloride
Concen: 0.377 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

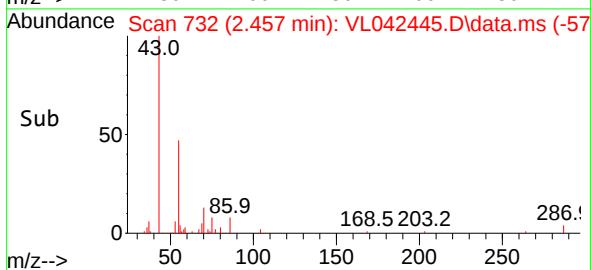
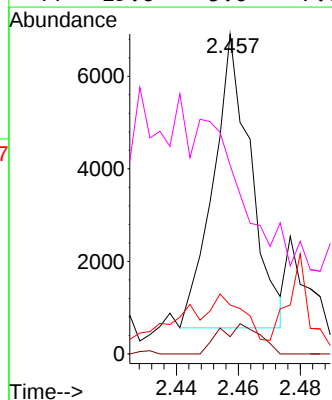
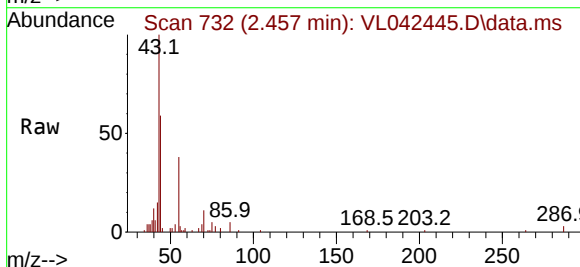
Instrument :
MSVOA_L
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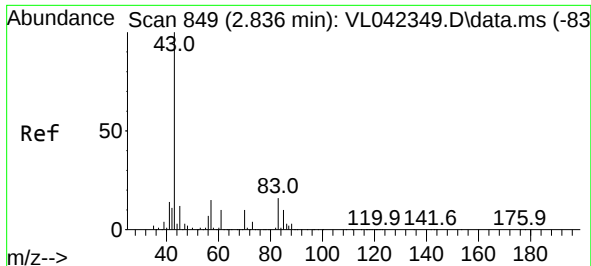
Tgt Ion:	84	Resp:	2823
Ion	Ratio	Lower	Upper
84	100		
49	110.9	111.6	167.4#
51	33.6	35.1	52.7#
86	68.3	48.9	73.3



#23
Vinyl Acetate
Concen: 0.686 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion:	43	Resp:	5316
Ion	Ratio	Lower	Upper
43	100		
86	5.9	6.5	9.7#
42	4.1	7.8	11.8#
44	19.6	5.0	7.6#

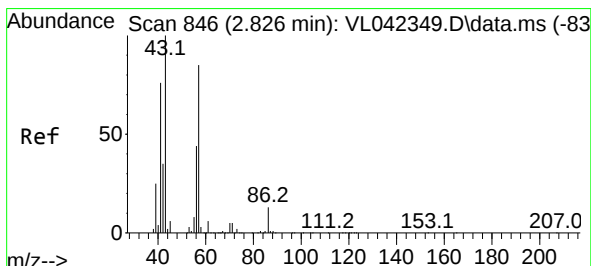
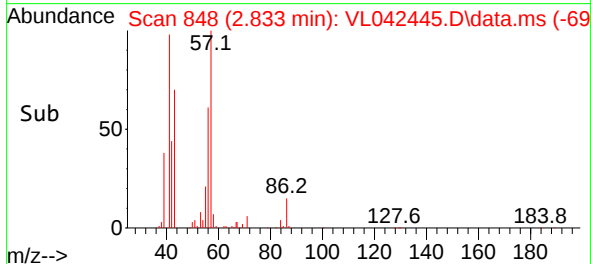
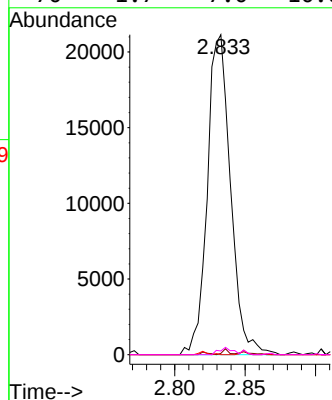
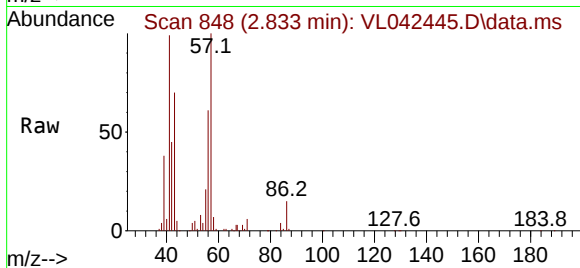




#25
Ethyl Acetate
Concen: 0.515 ppbv
RT: 2.833 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

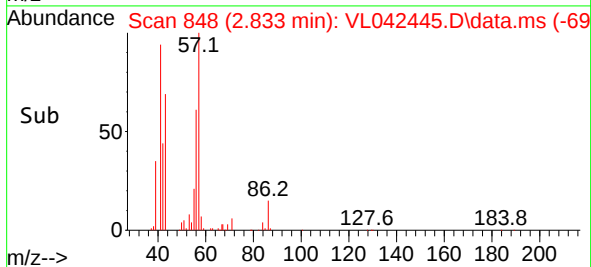
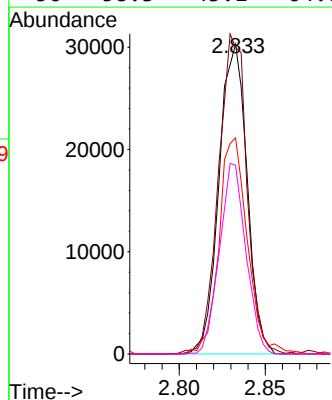
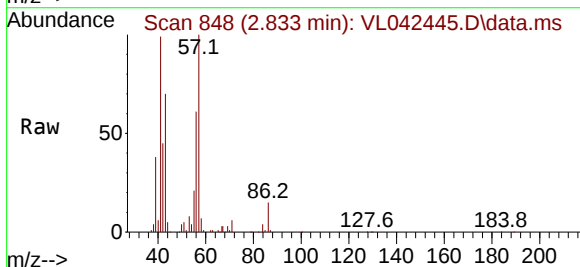
Instrument :
MSVOA_L
ClientSampleId :
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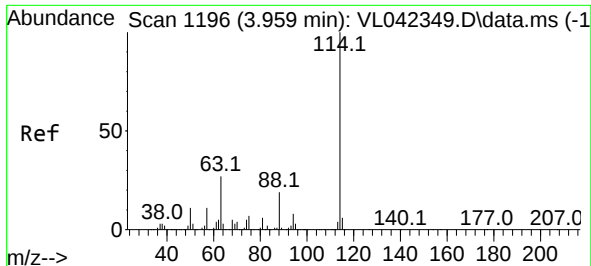
Tgt Ion:	43	Resp:	24301
Ion	Ratio	Lower	Upper
43	100		
45	1.2	8.3	12.5#
61	0.4	7.3	10.9#
70	1.7	7.0	10.6#



#26
Hexane
Concen: 1.794 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion:	57	Resp:	34265
Ion	Ratio	Lower	Upper
57	100		
41	105.5	77.9	116.9
43	70.9	208.4	312.6#
56	58.3	43.1	64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.966 min Scan# 1196

Delta R.T. 0.007 min

Lab File: VL042445.D

Acq: 29 Apr 2025 14:19

Instrument :

MSVOA_L

ClientSampleId :

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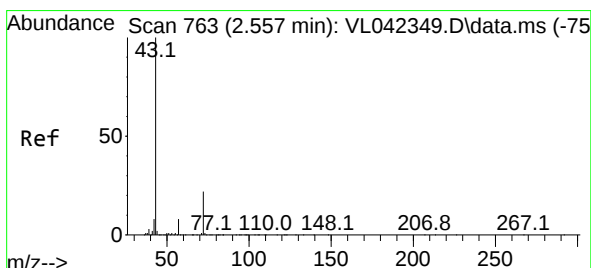
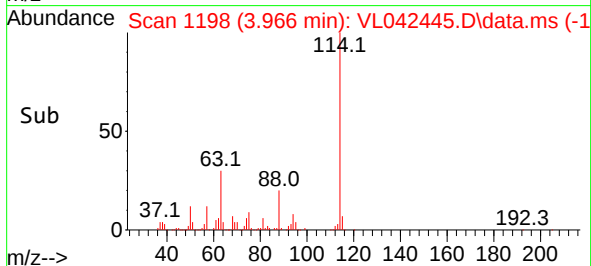
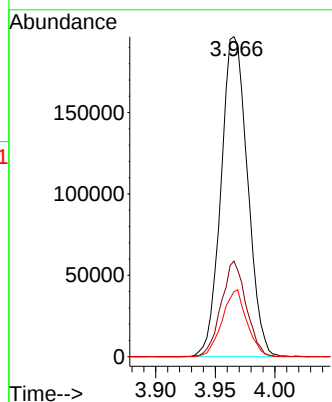
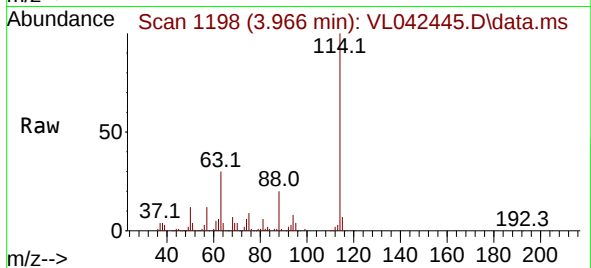
Tgt Ion:114 Resp: 304231

Ion Ratio Lower Upper

114 100

63 28.3 21.8 32.6

88 19.6 15.5 23.3



#34

2-Butanone

Concen: 0.522 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.010 min

Lab File: VL042445.D

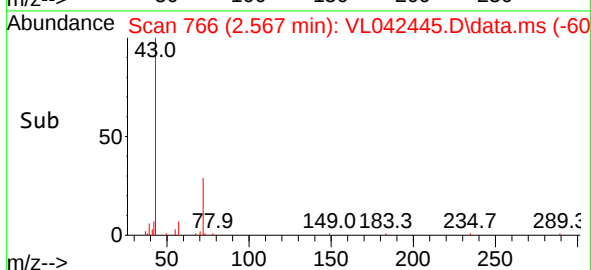
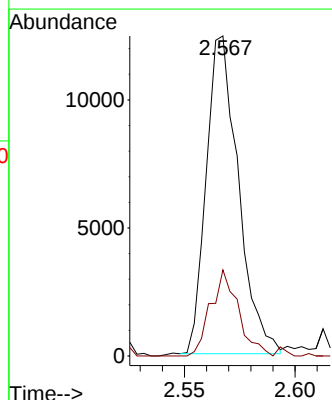
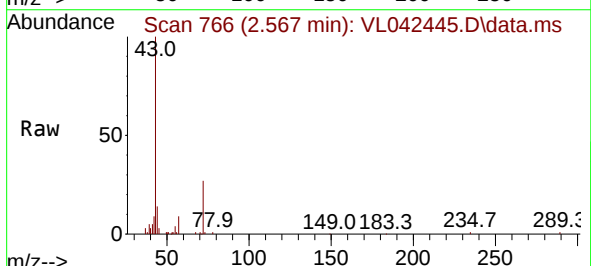
Acq: 29 Apr 2025 14:19

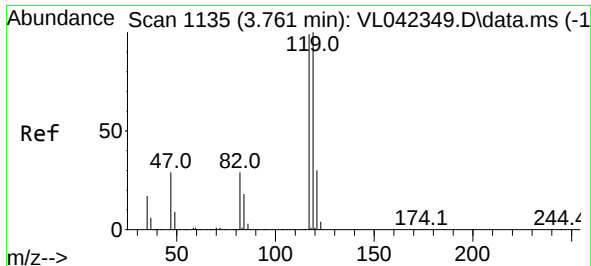
Tgt Ion: 43 Resp: 12554

Ion Ratio Lower Upper

43 100

72 24.2 18.2 27.2

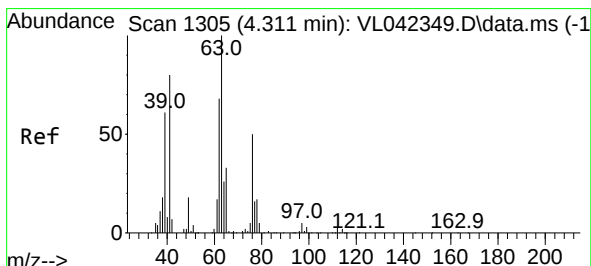
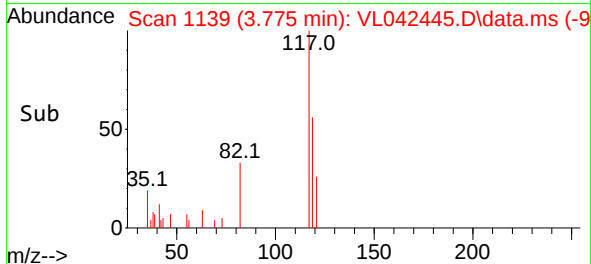
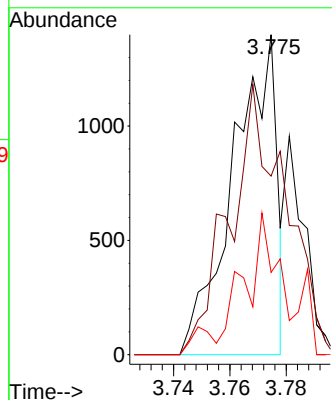
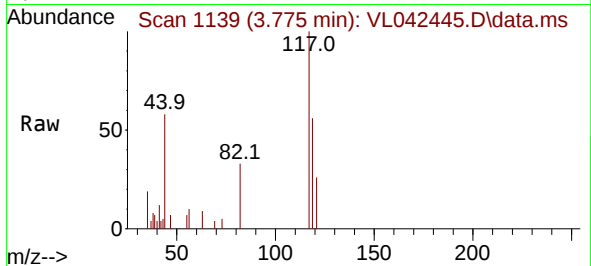




#35
Carbon Tetrachloride
Concen: 0.054 ppbv
RT: 3.775 min Scan# 1135
Delta R.T. 0.013 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

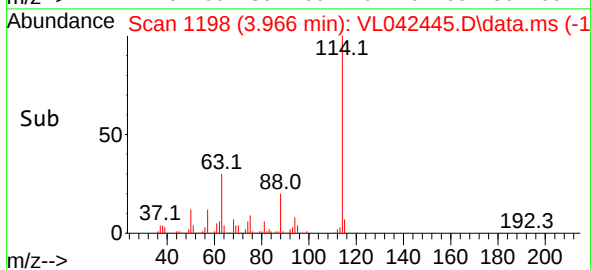
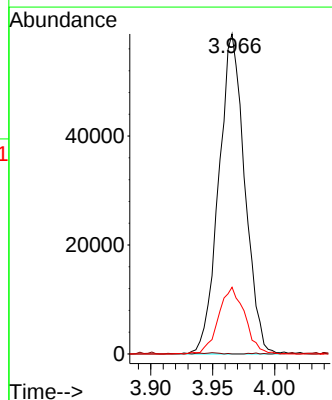
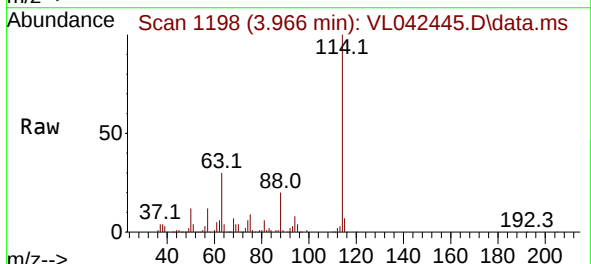
Instrument :
MSVOA_L
ClientSampleId :
B-3

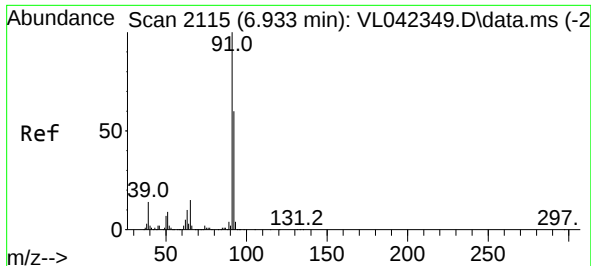
Tgt Ion: 117 Resp: 1499
Ion Ratio Lower Upper
117 100
119 55.8 80.5 120.7#
121 25.7 24.2 36.2



#39
1,2-Dichloropropane
Concen: 7.018 ppbv
RT: 3.966 min Scan# 1198
Delta R.T. -0.346 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 63 Resp: 85815
Ion Ratio Lower Upper
63 100
41 0.0 64.2 96.2#
62 20.9 54.3 81.5#

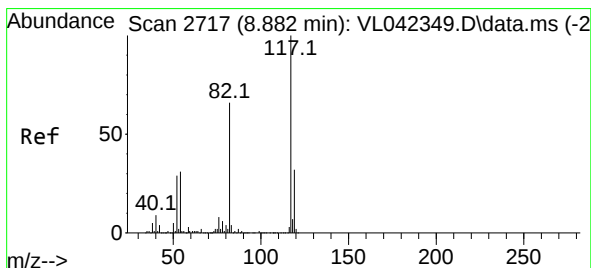
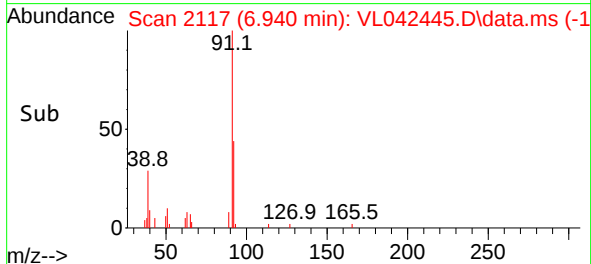
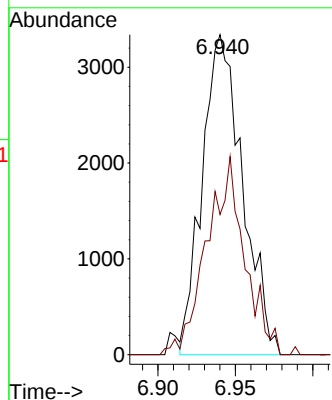
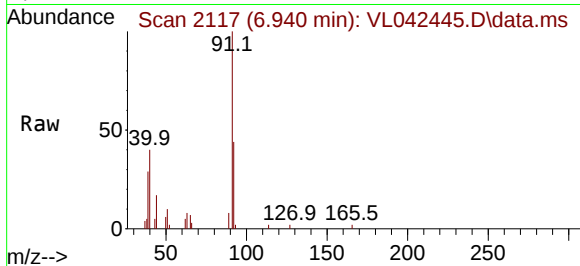




#53
Toluene
Concen: 0.154 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

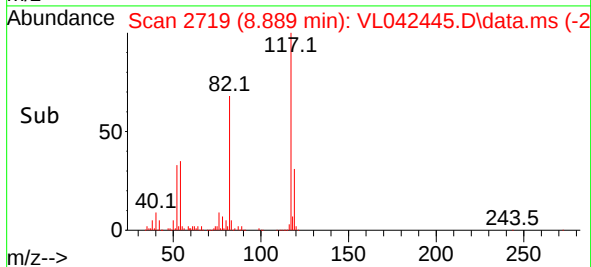
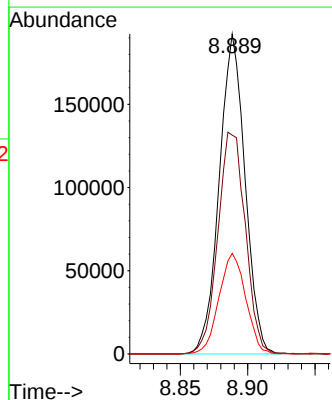
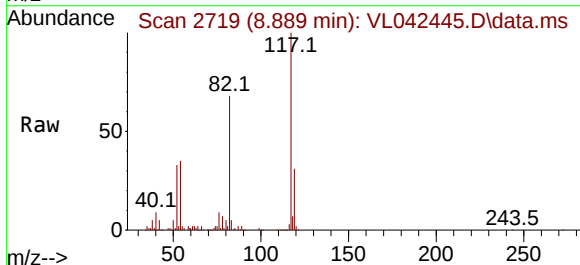
Instrument :
MSVOA_L
ClientSampleId :
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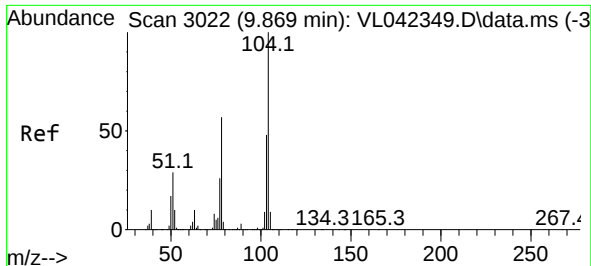
Tgt Ion: 91 Resp: 6054
Ion Ratio Lower Upper
91 100
92 58.1 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.889 min Scan# 2719
Delta R.T. 0.007 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 117 Resp: 256038
Ion Ratio Lower Upper
117 100
82 73.8 57.8 86.6
119 32.7 25.2 37.8

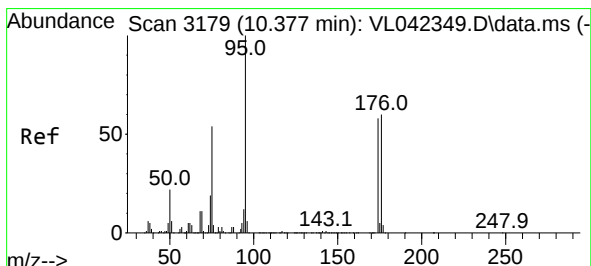
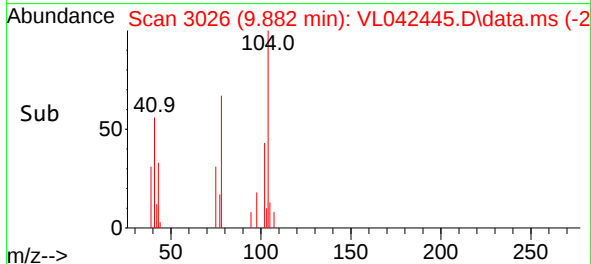
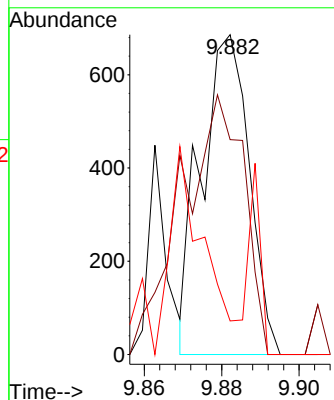
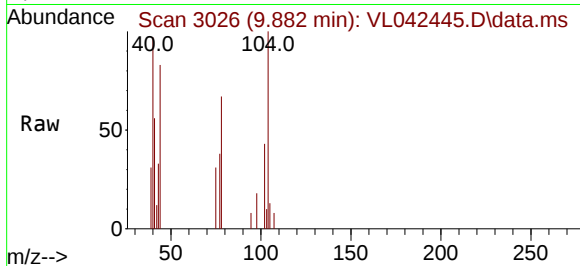




#61
Styrene
Concen: 0.030 ppbv
RT: 9.882 min Scan# 30
Delta R.T. 0.013 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

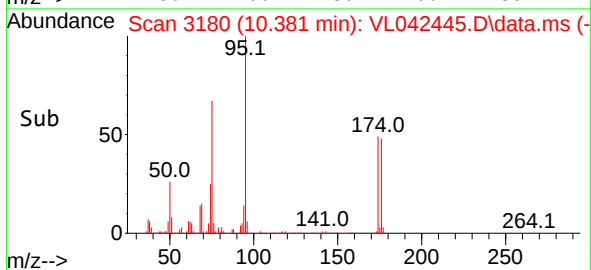
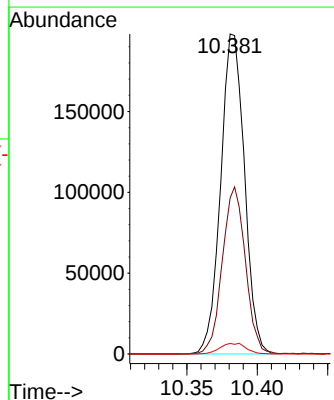
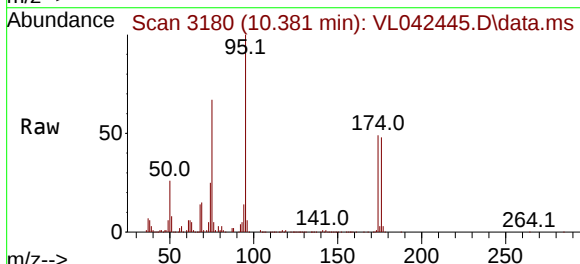
Instrument :
MSVOA_L
ClientSampleId :
B-3

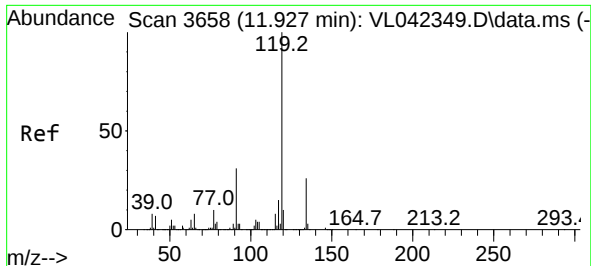
Tgt Ion:104 Resp: 590
Ion Ratio Lower Upper
104 100
78 106.3 44.6 66.8#
103 0.0 37.4 56.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 11.074 ppbv
RT: 10.381 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion: 95 Resp: 232994
Ion Ratio Lower Upper
95 100
174 50.6 48.5 72.7
175 3.6 3.7 5.5#

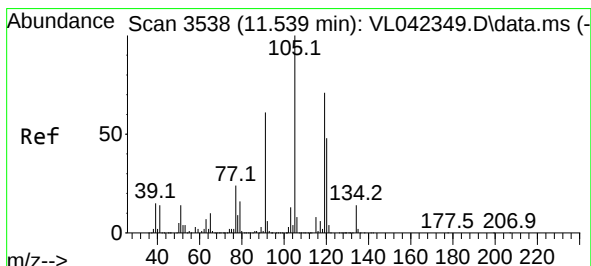
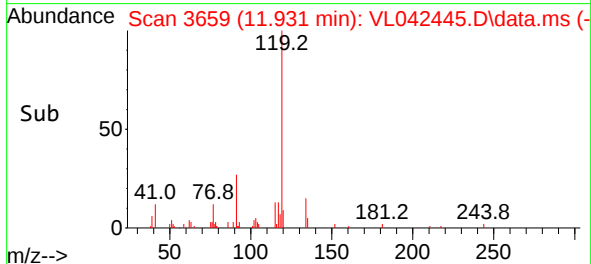
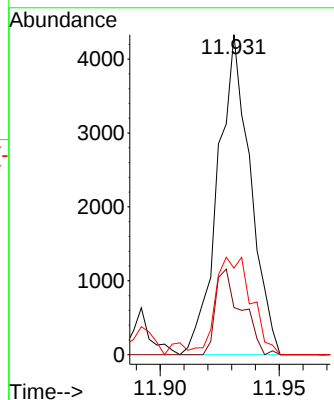
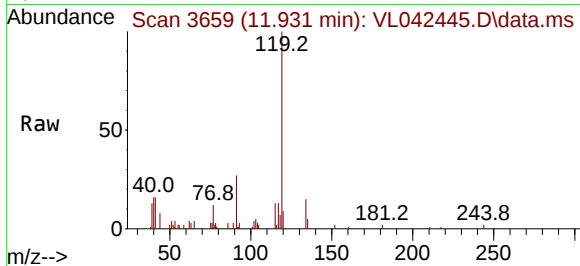




#69
p-Isopropyltoluene
Concen: 0.061 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Instrument :
MSVOA_L
ClientSampleId :
B-3

Tgt Ion:	119	Resp:	4106
Ion	Ratio	Lower	Upper
119	100		
134	21.3	20.0	30.0
91	35.3	24.4	36.6



#74
1,2,4-Trimethylbenzene
Concen: 0.052 ppbv
RT: 11.543 min Scan# 3539
Delta R.T. 0.004 min
Lab File: VL042445.D
Acq: 29 Apr 2025 14:19

Tgt Ion:	105	Resp:	2714
Ion	Ratio	Lower	Upper
105	100		
120	40.5	38.1	57.1
91	11.1	48.8	73.2#
77	6.2	19.0	28.4#

