

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041965.D
 Acq On : 03 Feb 2025 15:30
 Operator : SY/MD
 Sample : Q1256-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 04 02:37:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	155407	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	429228	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	368518	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	289779	9.983	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

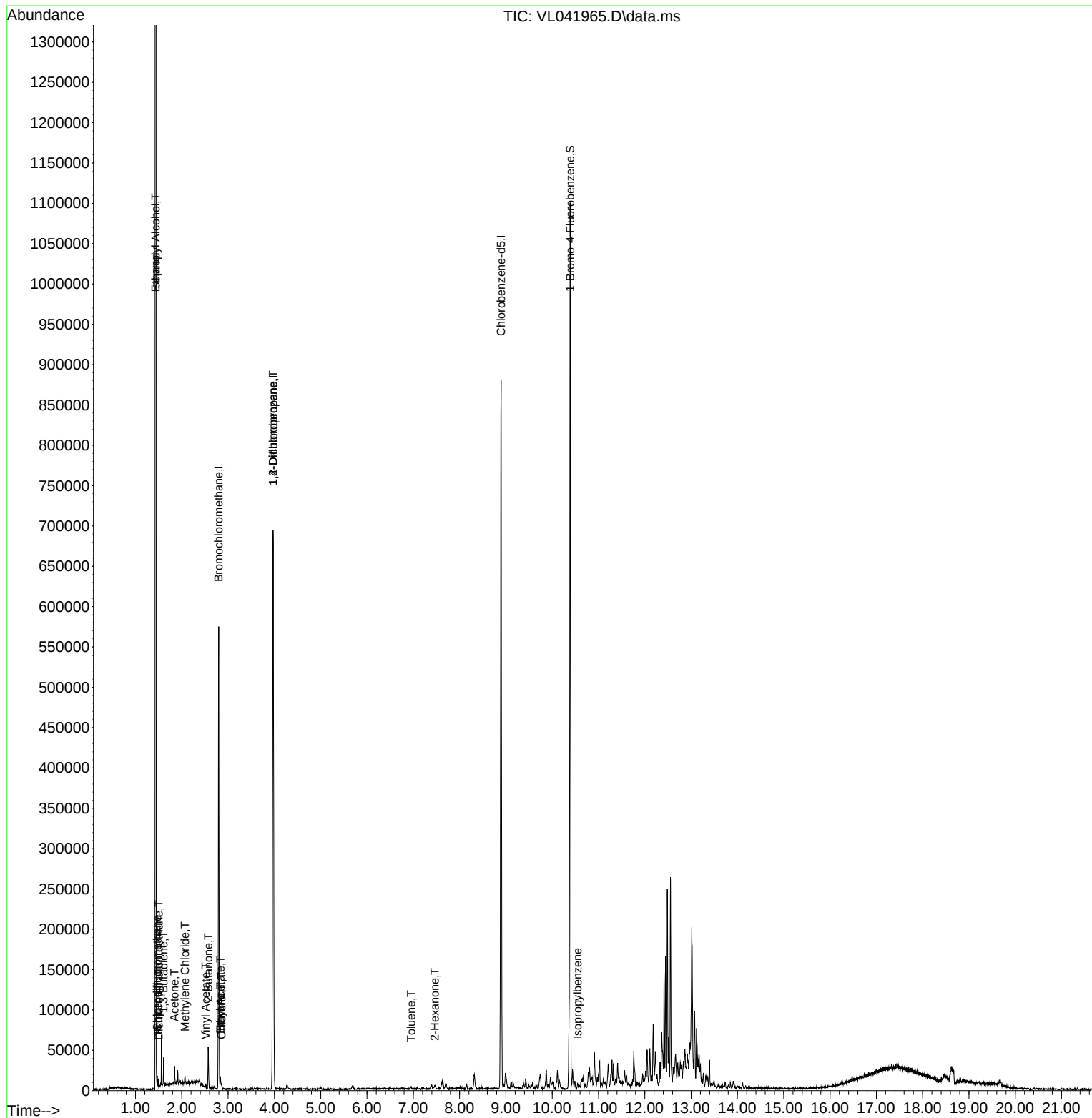
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	1.470	51	3681	0.166	ppbv #	68
8) Dichlorotetrafluoroethane	1.502	85	599	0.032	ppbv #	19
9) Propene	1.486	41	2162	0.237	ppbv	94
13) Ethanol	1.434	45	275730	412.075	ppbv	87
15) Acetone	1.842	43	7792	0.417	ppbv #	48
16) 1,3-Butadiene	1.606	39	3131	0.374	ppbv #	29
19) Isopropyl Alcohol	1.434	45	275730	24.914	ppbv #	32
20) Methylene Chloride	2.068	84	1122	0.152	ppbv #	92
23) Vinyl Acetate	2.515	43	897	0.097	ppbv #	2
25) Ethyl Acetate	2.836	43	1749	0.035	ppbv #	85
26) Hexane	2.832	57	3031	0.152	ppbv #	35
29) Chloroform	2.858	83	2129	0.068	ppbv	87
34) 2-Butanone	2.570	43	31342	1.148	ppbv	99
39) 1,2-Dichloropropane	3.972	63	104937	7.599	ppbv #	22
51) 2-Hexanone	7.464	43	1551	0.054	ppbv #	62
53) Toluene	6.953	91	1499	0.035	ppbv #	65
62) Isopropylbenzene	10.548	105	2513	0.035	ppbv	97

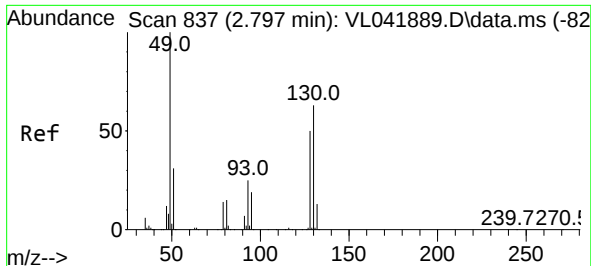
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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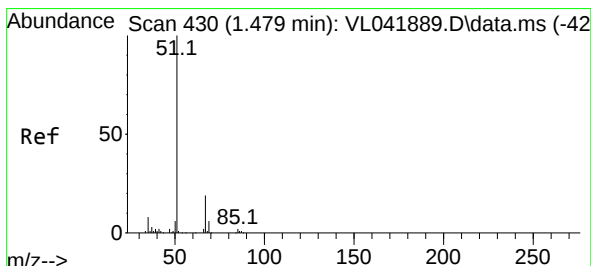
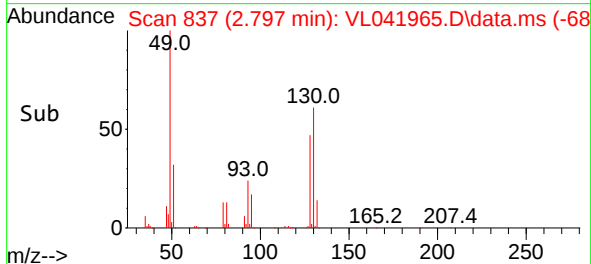
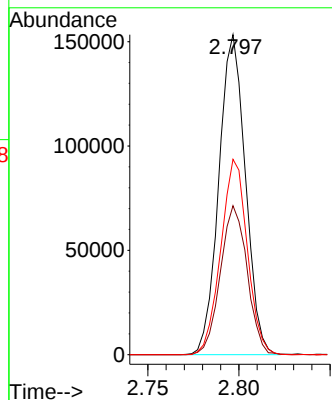
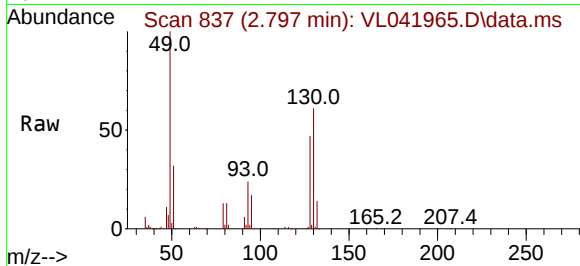




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL041965.D
 Acq: 03 Feb 2025 15:30

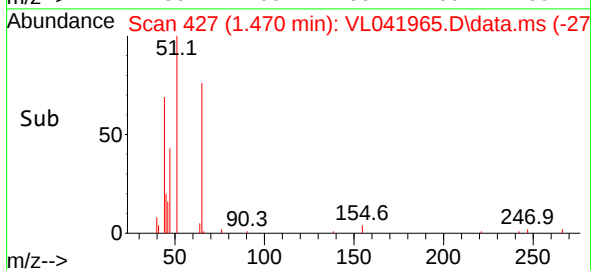
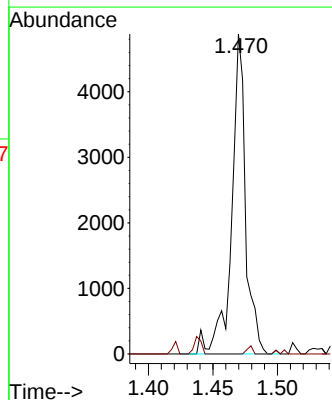
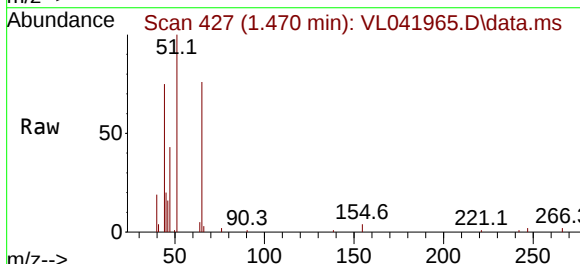
Instrument :
 MSVOA_L
 ClientSampleId :

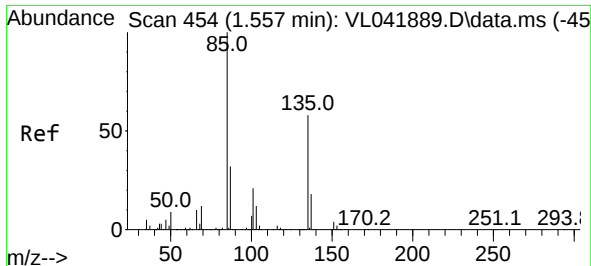
Tgt Ion: 49 Resp: 155407
 Ion Ratio Lower Upper
 49 100
 128 46.9 24.3 73.0
 130 61.0 31.1 93.2



#3
 Chlorodifluoromethane
 Concen: 0.166 ppbv
 RT: 1.470 min Scan# 427
 Delta R.T. -0.010 min
 Lab File: VL041965.D
 Acq: 03 Feb 2025 15:30

Tgt Ion: 51 Resp: 3681
 Ion Ratio Lower Upper
 51 100
 67 4.2 15.0 22.4#

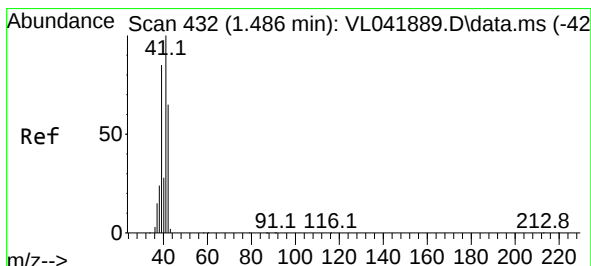
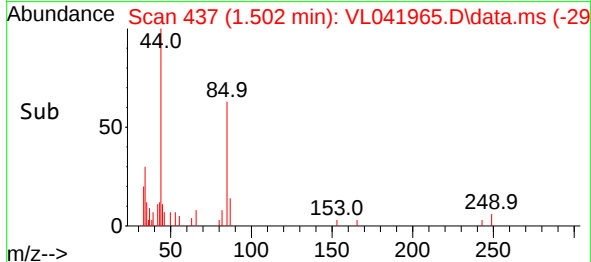
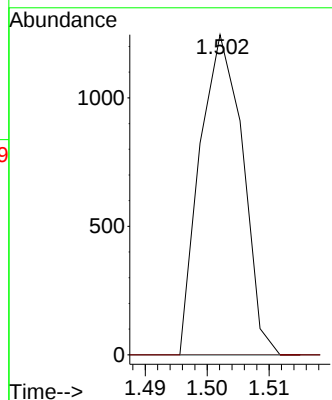
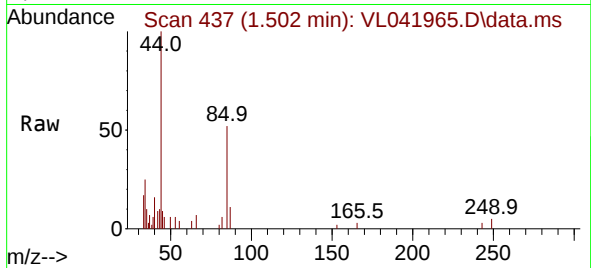




#8
 Dichlorotetrafluoroethane
 Concen: 0.032 ppbv
 RT: 1.502 min Scan# 41
 Delta R.T. -0.055 min
 Lab File: VL041965.D
 Acq: 03 Feb 2025 15:30

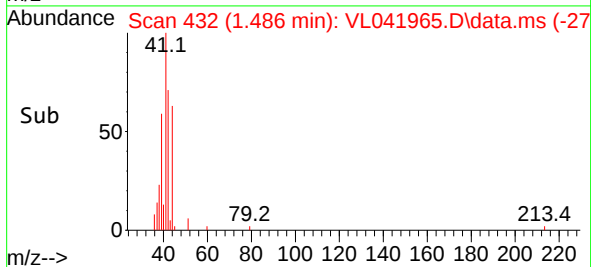
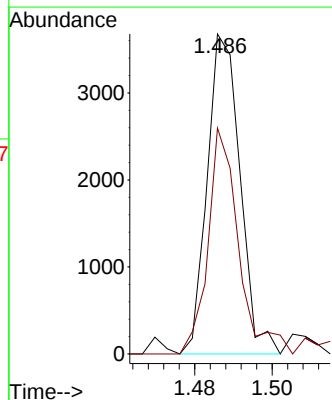
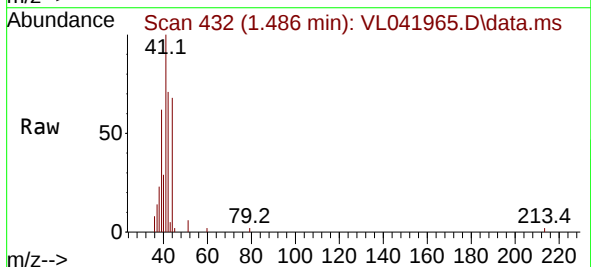
Instrument :
 MSVOA_L
 ClientSampleId :

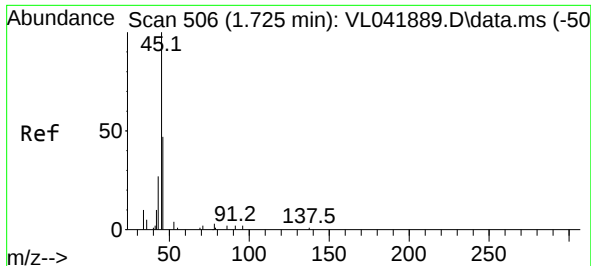
Tgt Ion: 85 Resp: 599
 Ion Ratio Lower Upper
 85 100
 135 0.0 50.0 75.0#



#9
 Propene
 Concen: 0.237 ppbv
 RT: 1.486 min Scan# 432
 Delta R.T. 0.000 min
 Lab File: VL041965.D
 Acq: 03 Feb 2025 15:30

Tgt Ion: 41 Resp: 2162
 Ion Ratio Lower Upper
 41 100
 42 69.8 52.0 78.0





#13

Ethanol

Concen: 412.075 ppbv

RT: 1.434 min Scan# 416

Delta R.T. -0.291 min

Lab File: VL041965.D

Acq: 03 Feb 2025 15:30

Instrument :

MSVOA_L

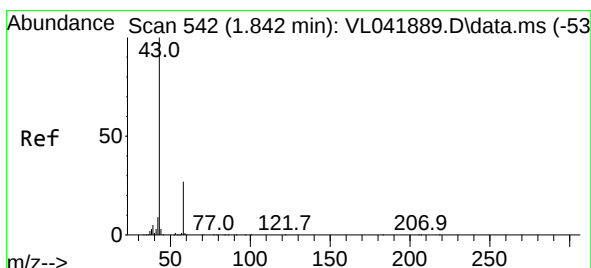
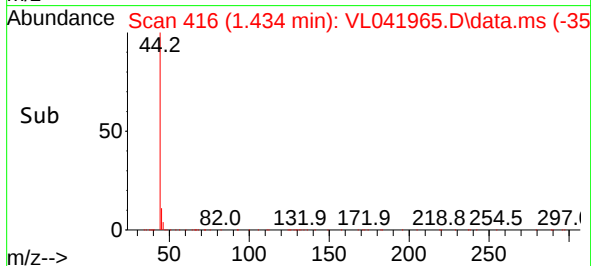
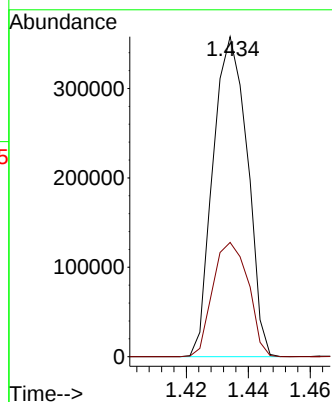
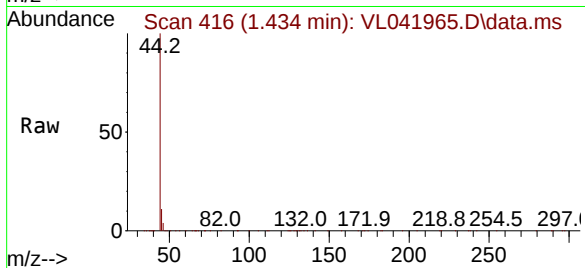
ClientSampleId :

Tgt Ion: 45 Resp: 275730

Ion Ratio Lower Upper

45 100

46 37.0 18.1 72.5



#15

Acetone

Concen: 0.417 ppbv

RT: 1.842 min Scan# 542

Delta R.T. 0.000 min

Lab File: VL041965.D

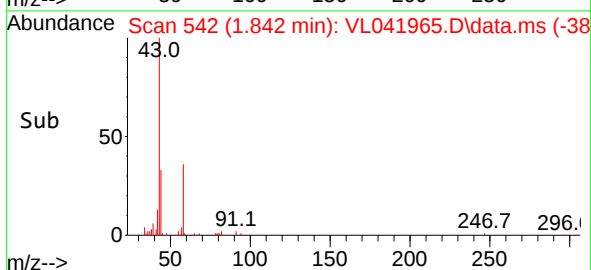
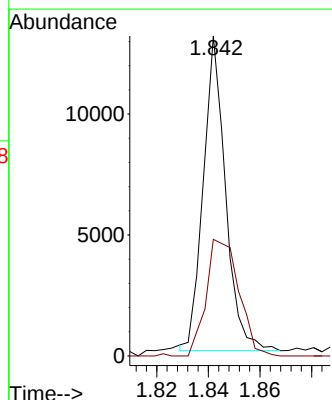
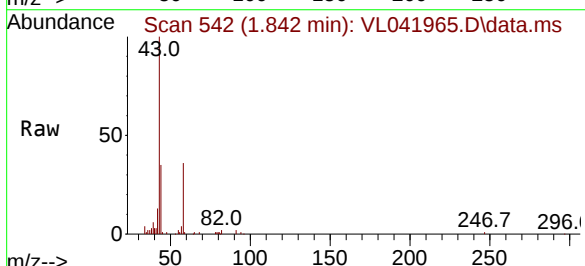
Acq: 03 Feb 2025 15:30

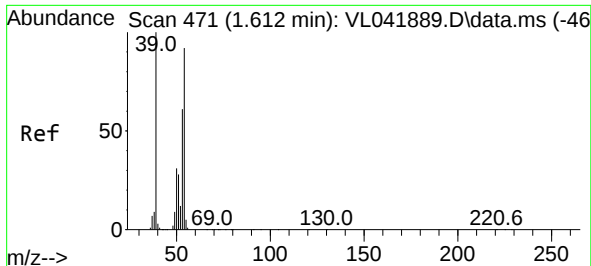
Tgt Ion: 43 Resp: 7792

Ion Ratio Lower Upper

43 100

58 54.6 21.9 32.9#

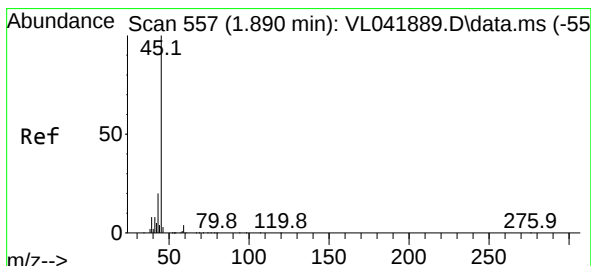
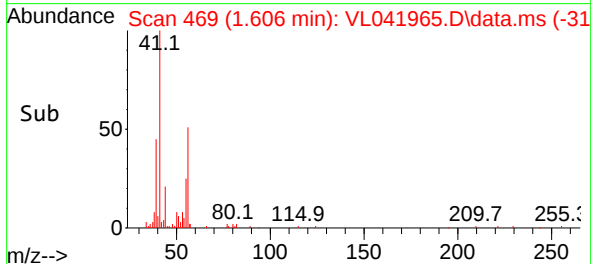
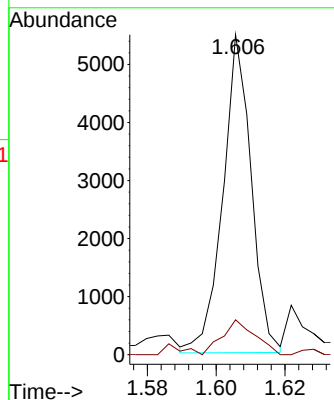
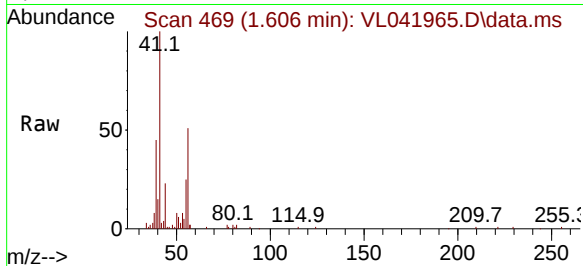




#16
1,3-Butadiene
Concen: 0.374 ppbv
RT: 1.606 min Scan# 416
Delta R.T. -0.006 min
Lab File: VL041965.D
Acq: 03 Feb 2025 15:30

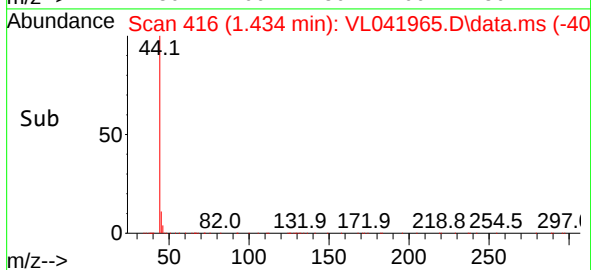
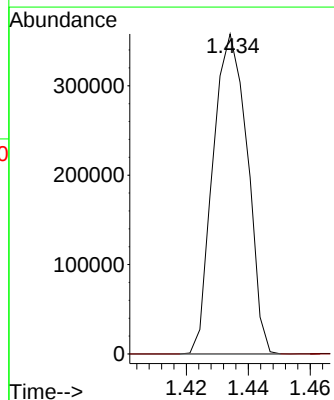
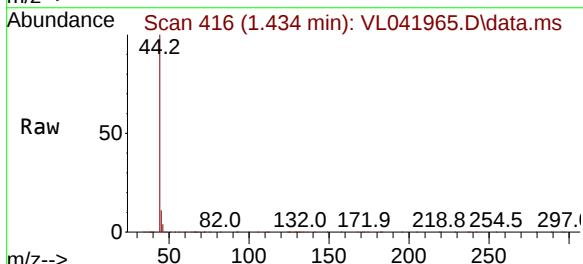
Instrument :
MSVOA_L
ClientSampleId :

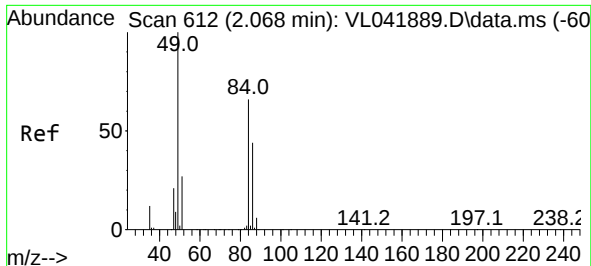
Tgt Ion: 39 Resp: 3131
Ion Ratio Lower Upper
39 100
54 15.9 61.6 92.4#



#19
Isopropyl Alcohol
Concen: 24.914 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.456 min
Lab File: VL041965.D
Acq: 03 Feb 2025 15:30

Tgt Ion: 45 Resp: 275730
Ion Ratio Lower Upper
45 100
58 0.0 35.0 52.6#





#20

Methylene Chloride

Concen: 0.152 ppbv

RT: 2.068 min Scan# 61

Delta R.T. 0.000 min

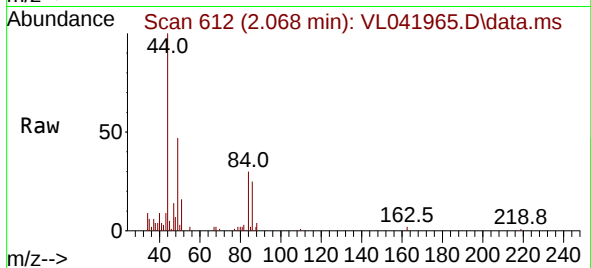
Lab File: VL041965.D

Acq: 03 Feb 2025 15:30

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 1122

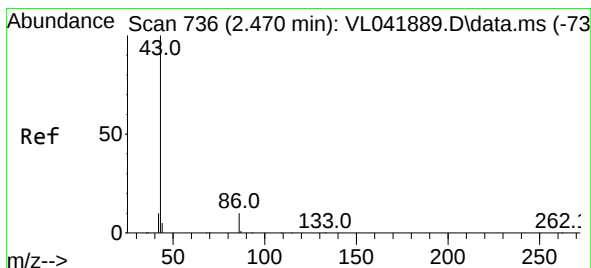
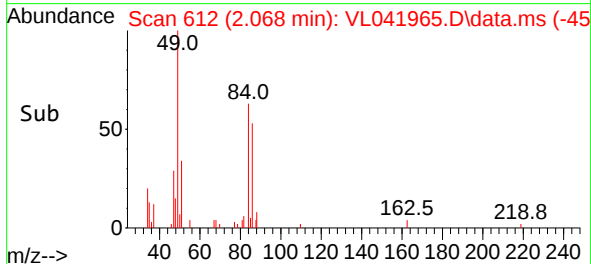
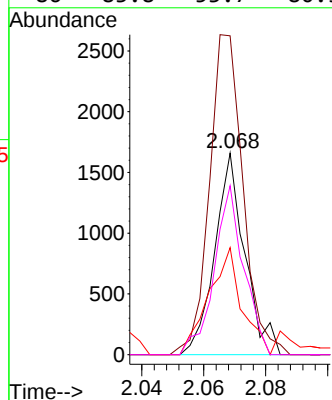
Ion Ratio Lower Upper

84 100

49 154.3 123.1 184.7

51 53.1 35.8 53.8

86 83.8 53.7 80.5#



#23

Vinyl Acetate

Concen: 0.097 ppbv

RT: 2.515 min Scan# 750

Delta R.T. 0.045 min

Lab File: VL041965.D

Acq: 03 Feb 2025 15:30

Tgt Ion: 43 Resp: 897

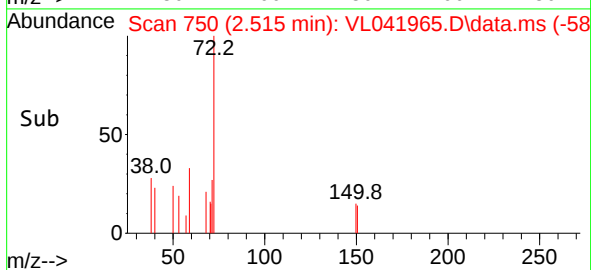
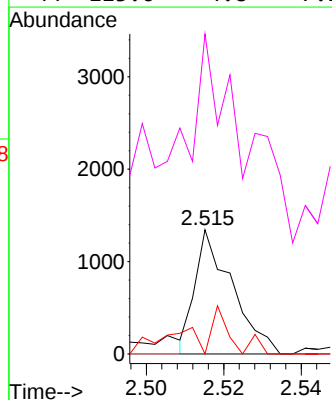
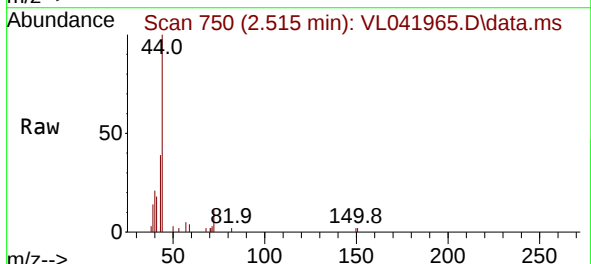
Ion Ratio Lower Upper

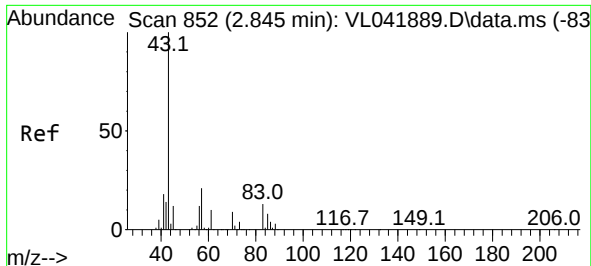
43 100

86 0.0 6.2 9.4#

42 0.0 8.5 12.7#

44 113.6 4.8 7.2#





#25

Ethyl Acetate

Concen: 0.035 ppbv

RT: 2.836 min Scan# 84

Delta R.T. -0.010 min

Lab File: VL041965.D

Acq: 03 Feb 2025 15:30

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43 Resp: 1749

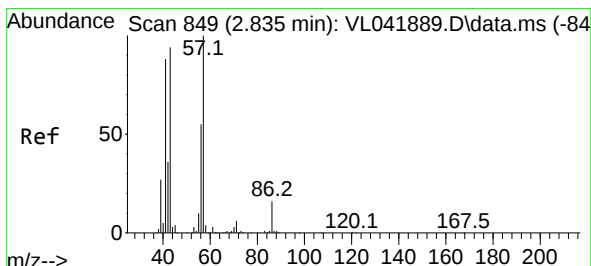
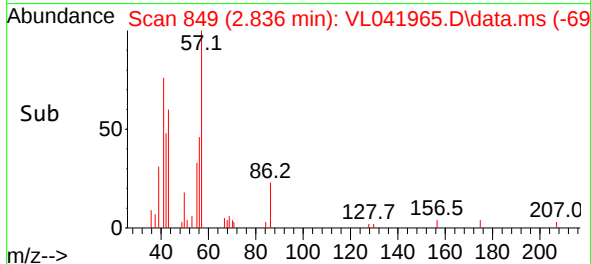
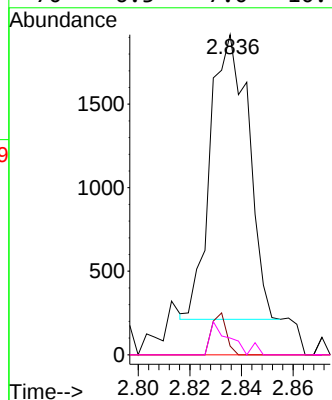
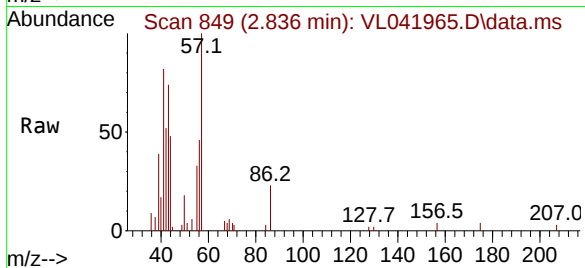
Ion Ratio Lower Upper

43 100

45 5.6 8.2 12.2#

61 0.0 7.4 11.0#

70 6.3 7.0 10.4#



#26

Hexane

Concen: 0.152 ppbv

RT: 2.832 min Scan# 848

Delta R.T. -0.003 min

Lab File: VL041965.D

Acq: 03 Feb 2025 15:30

Tgt Ion: 57 Resp: 3031

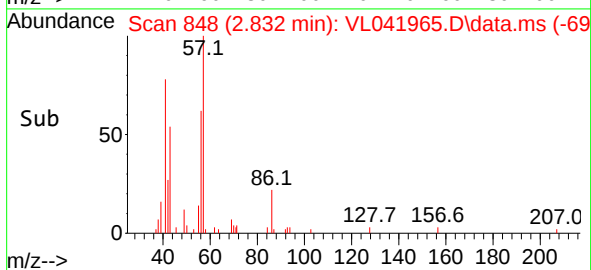
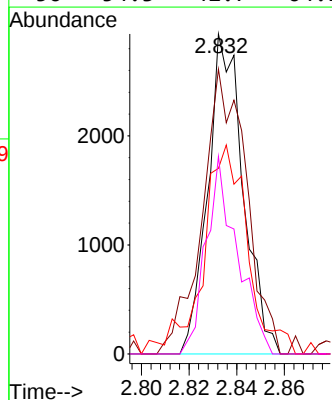
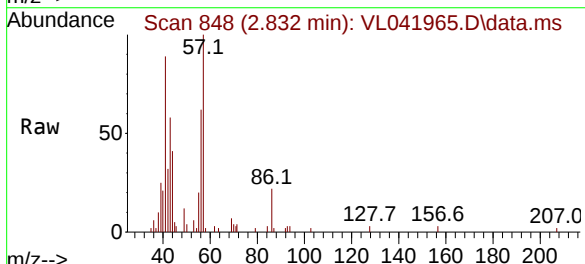
Ion Ratio Lower Upper

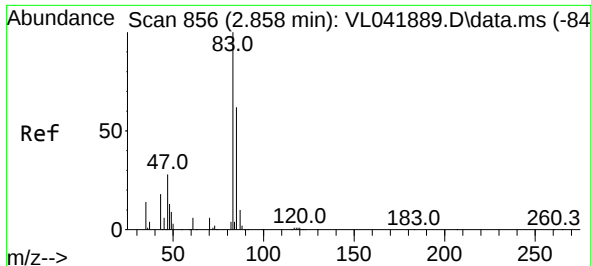
57 100

41 112.4 73.8 110.8#

43 82.9 197.3 295.9#

56 54.3 42.7 64.1





#29

Chloroform

Concen: 0.068 ppbv

RT: 2.858 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL041965.D

Acq: 03 Feb 2025 15:30

Instrument :

MSVOA_L

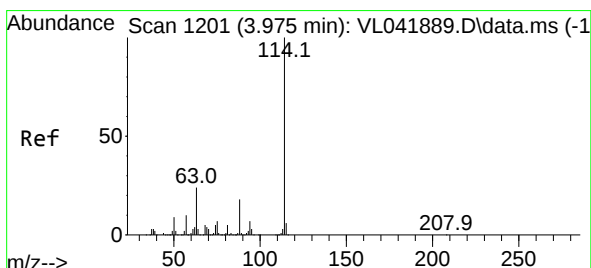
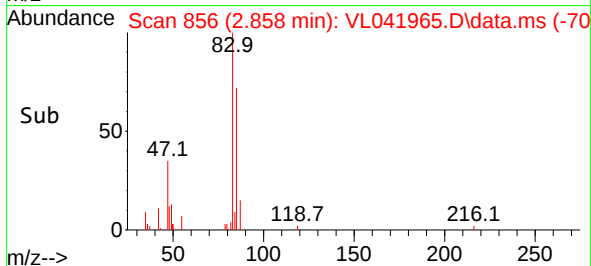
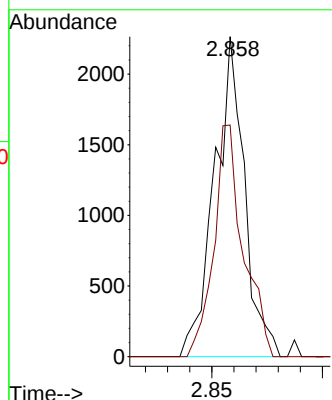
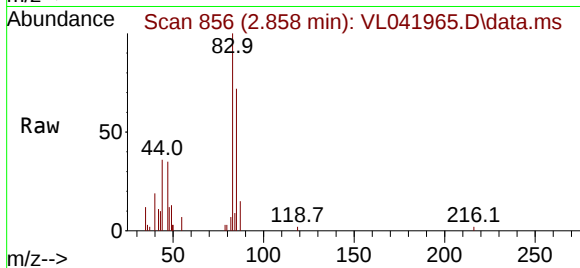
ClientSampleId :

Tgt Ion: 83 Resp: 2129

Ion Ratio Lower Upper

83 100

85 72.4 50.1 75.1



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 1200

Delta R.T. -0.003 min

Lab File: VL041965.D

Acq: 03 Feb 2025 15:30

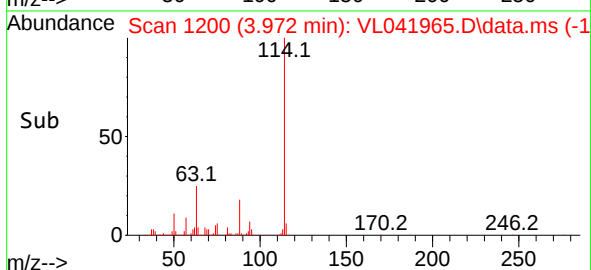
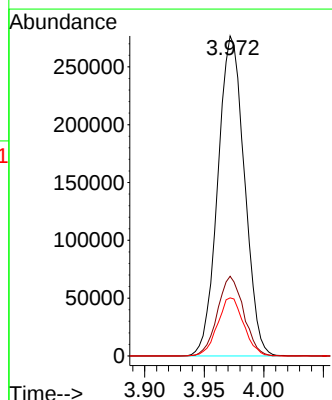
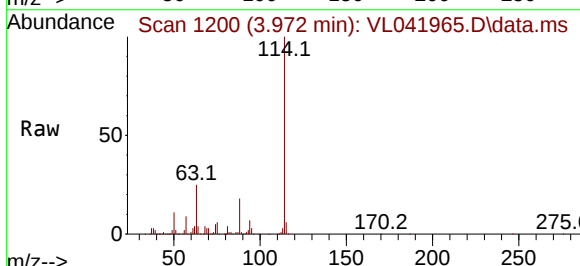
Tgt Ion: 114 Resp: 429228

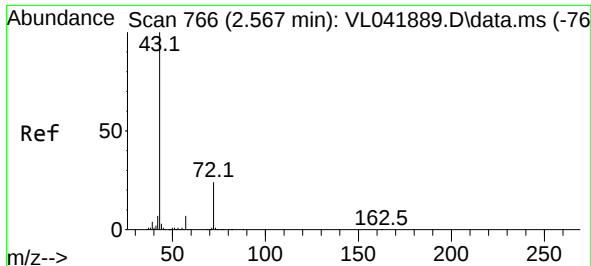
Ion Ratio Lower Upper

114 100

63 24.5 19.8 29.6

88 17.9 14.4 21.6

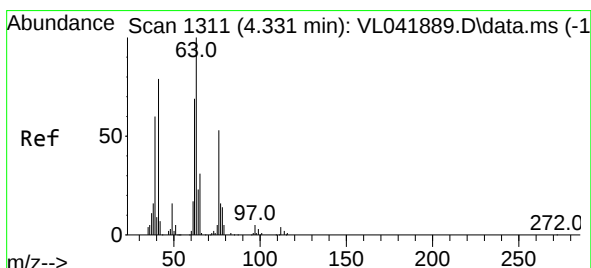
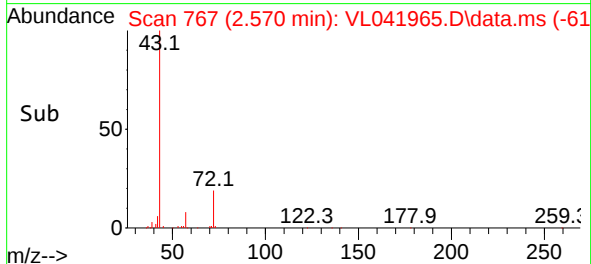
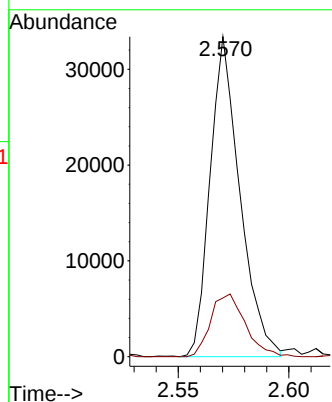
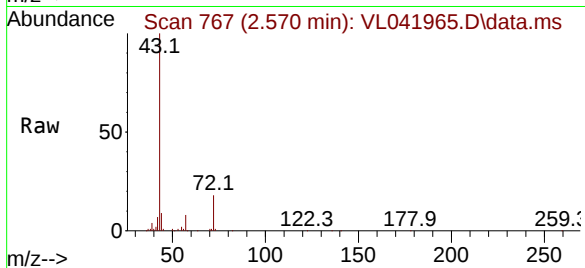




#34
2-Butanone
Concen: 1.148 ppbv
RT: 2.570 min Scan# 70
Delta R.T. 0.003 min
Lab File: VL041965.D
Acq: 03 Feb 2025 15:30

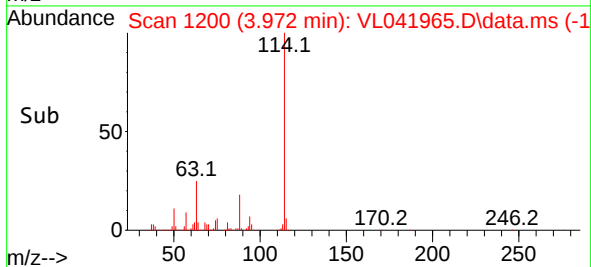
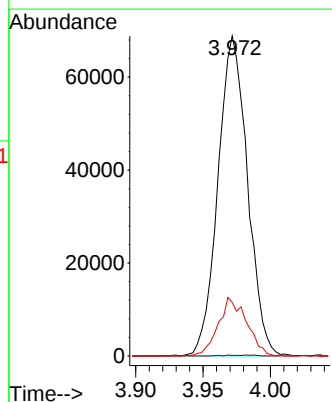
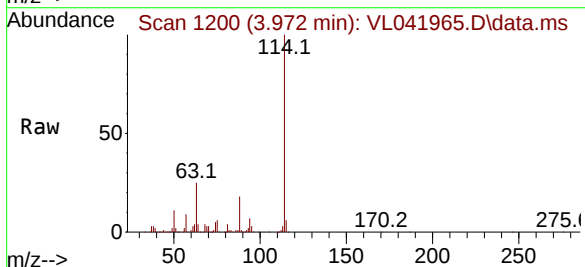
Instrument :
MSVOA_L
ClientSampleId :

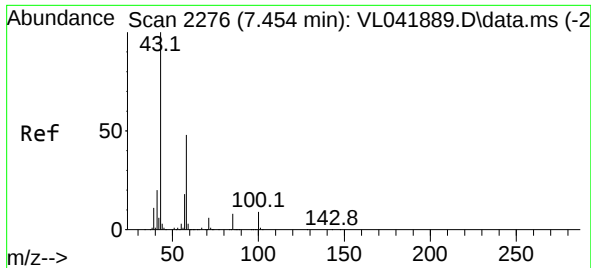
Tgt Ion: 43 Resp: 31342
Ion Ratio Lower Upper
43 100
72 23.0 18.6 28.0



#39
1,2-Dichloropropane
Concen: 7.599 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. -0.359 min
Lab File: VL041965.D
Acq: 03 Feb 2025 15:30

Tgt Ion: 63 Resp: 104937
Ion Ratio Lower Upper
63 100
41 0.3 63.7 95.5#
62 16.7 55.4 83.2#

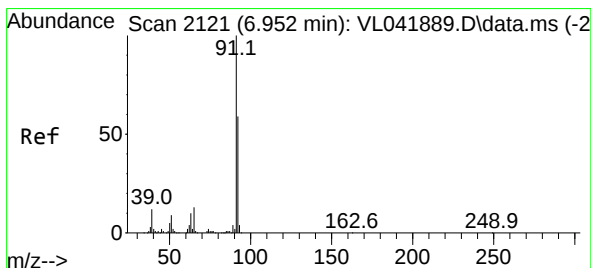
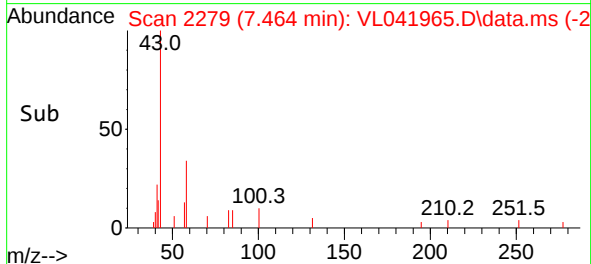
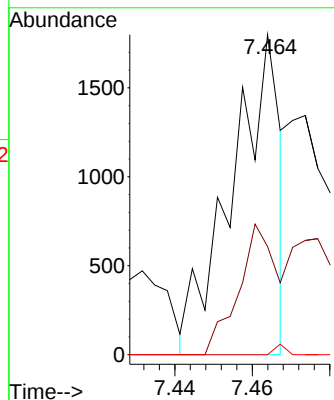
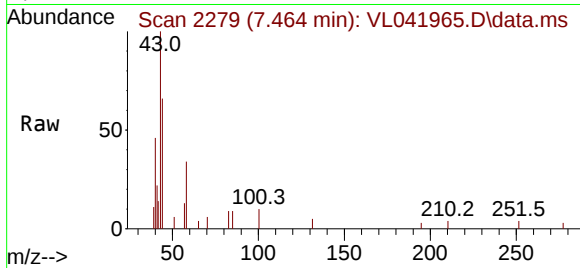




#51
2-Hexanone
Concen: 0.054 ppbv
RT: 7.464 min Scan# 2127
Delta R.T. 0.010 min
Lab File: VL041965.D
Acq: 03 Feb 2025 15:30

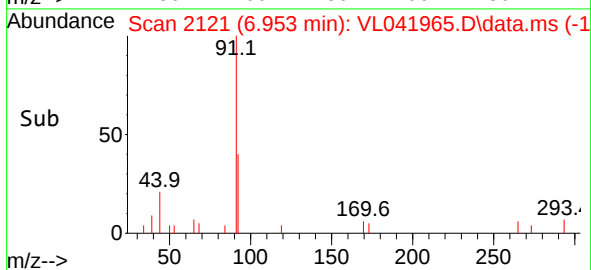
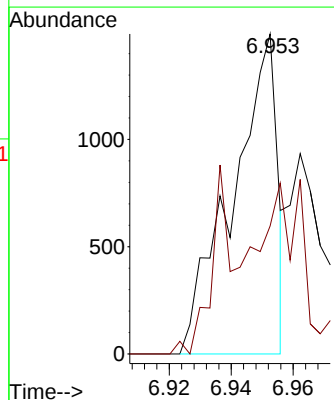
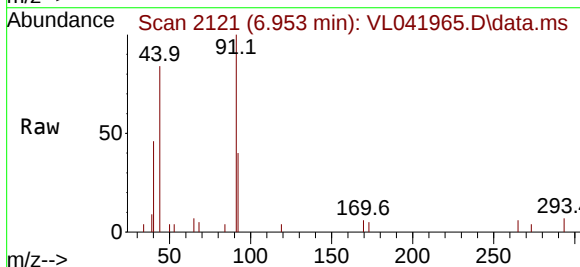
Instrument :
MSVOA_L
ClientSampleId :

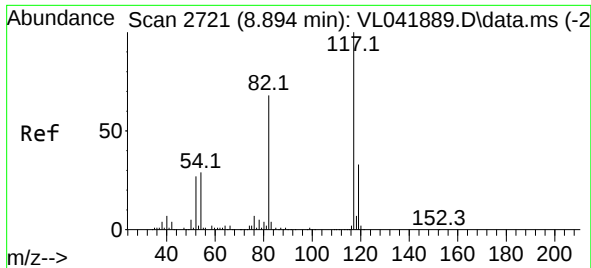
Tgt Ion: 43 Resp: 1551
Ion Ratio Lower Upper
43 100
58 77.0 40.4 60.6#
98 0.0 0.2 0.2#



#53
Toluene
Concen: 0.035 ppbv
RT: 6.953 min Scan# 2121
Delta R.T. 0.000 min
Lab File: VL041965.D
Acq: 03 Feb 2025 15:30

Tgt Ion: 91 Resp: 1499
Ion Ratio Lower Upper
91 100
92 85.8 47.4 71.0#

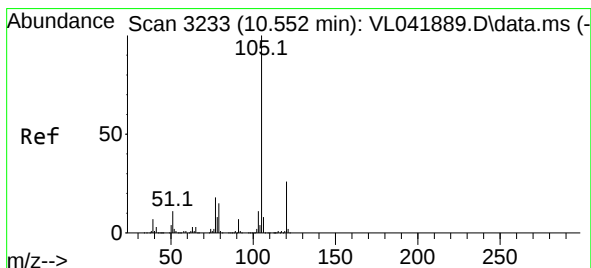
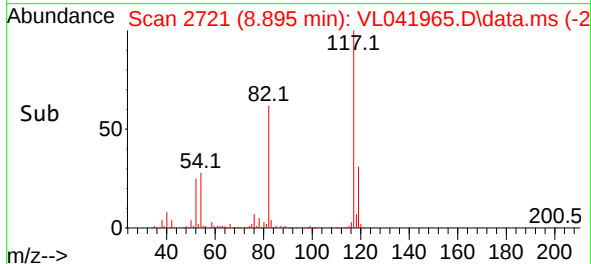
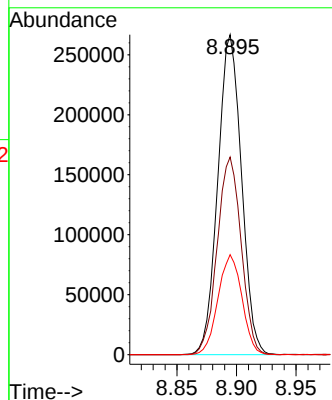
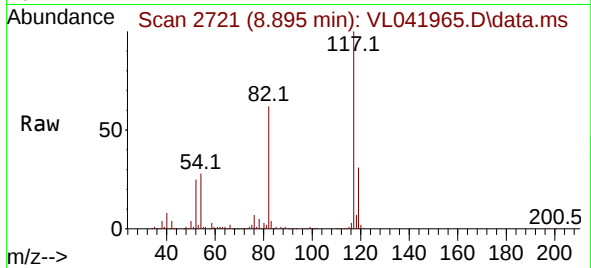




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041965.D
Acq: 03 Feb 2025 15:30

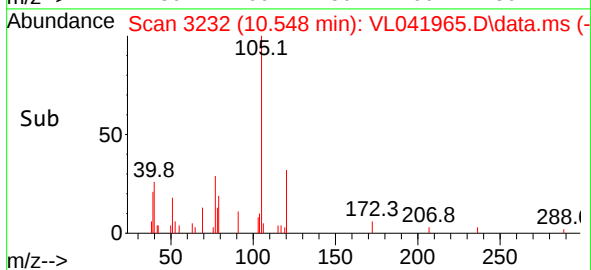
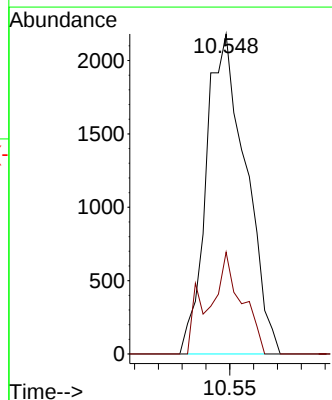
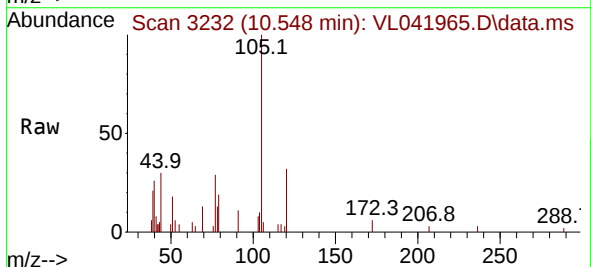
Instrument :
MSVOA_L
ClientSampleId :

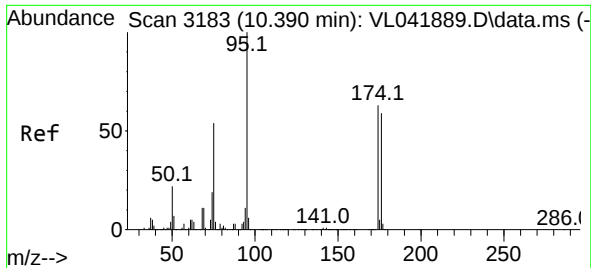
Tgt Ion:117 Resp: 368518
Ion Ratio Lower Upper
117 100
82 62.6 54.2 81.4
119 31.6 25.0 37.6



#62
Isopropylbenzene
Concen: 0.035 ppbv
RT: 10.548 min Scan# 3232
Delta R.T. -0.003 min
Lab File: VL041965.D
Acq: 03 Feb 2025 15:30

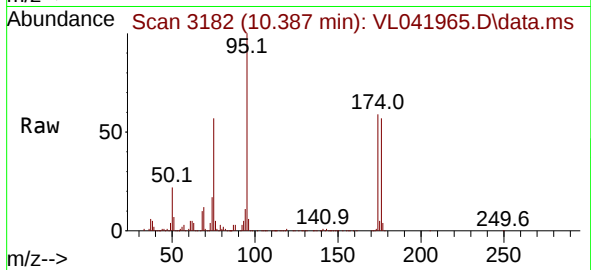
Tgt Ion:105 Resp: 2513
Ion Ratio Lower Upper
105 100
120 27.0 20.3 30.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.983 ppbv
 RT: 10.387 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL041965.D
 Acq: 03 Feb 2025 15:30

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 289779
 Ion Ratio Lower Upper
 95 100
 174 60.4 49.0 73.4
 175 4.7 3.8 5.8

