

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
 Data File : VL043266.D
 Acq On : 20 Nov 2025 15:40
 Operator : SY/MD
 Sample : Q3655-06 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025

Quant Time: Nov 21 00:40:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	106324	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.953	114	275978	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	215672	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.368	95	165012	10.438	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	4354	0.290	ppbv	98
3) Chlorodifluoromethane	1.477	51	1778m	0.121	ppbv	
4) Chloromethane	1.535	50	1115	0.199	ppbv	92
9) Propene	1.486	41	1045	0.167	ppbv #	1
11) Trichlorofluoromethane	1.878	101	1990	0.137	ppbv	87
13) Ethanol	1.719	45	7758	3.523	ppbv #	38
15) Acetone	1.836	43	38041	2.575	ppbv	95
19) Isopropyl Alcohol	1.884	45	15317	1.835	ppbv #	69
20) Methylene Chloride	2.062	84	10245	1.702	ppbv	86
26) Hexane	2.823	57	16568	1.186	ppbv #	42
34) 2-Butanone	2.558	43	5947	0.305	ppbv	99
35) Carbon Tetrachloride	3.762	117	698m	0.033	ppbv	
38) Trichloroethene	4.555	130	430m	0.042	ppbv	
52) Tetrachloroethene	8.218	164	15513	1.578	ppbv	94
53) Toluene	6.924	91	20292	0.648	ppbv	96
58) Ethyl Benzene	9.348	91	9732	0.234	ppbv #	78
59) m/p-Xylene	9.523	91	33888m	1.018	ppbv	
60) o-Xylene	9.957	91	10915	0.328	ppbv	89
61) Styrene	9.866	104	26295	1.807	ppbv	97
62) Isopropylbenzene	10.533	105	10238	0.172	ppbv	92
69) p-Isopropyltoluene	11.918	119	9599	0.153	ppbv	92
74) 1,2,4-Trimethylbenzene	11.533	105	13894	0.375	ppbv #	55

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

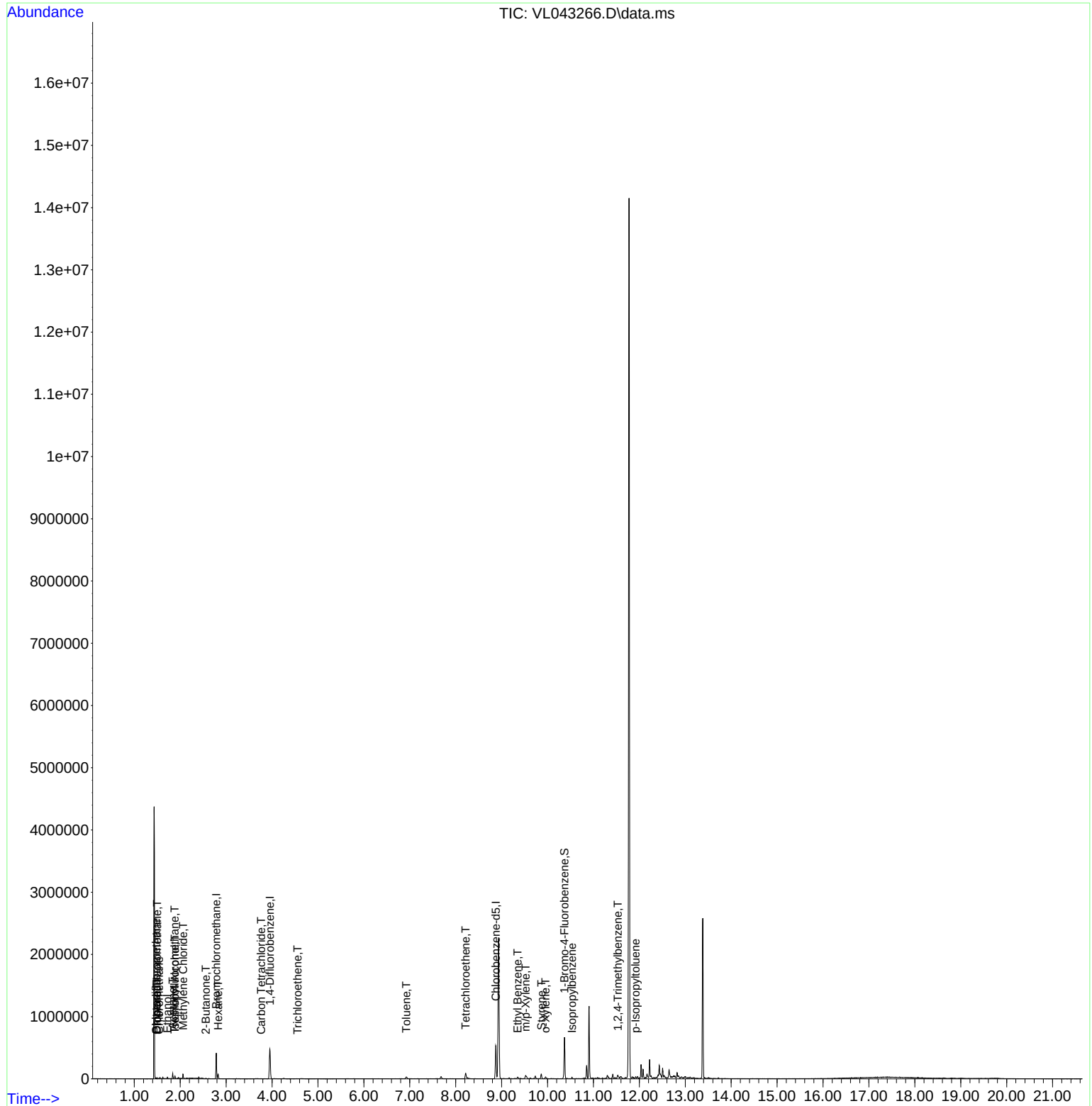
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112025\
Data File : VL043266.D
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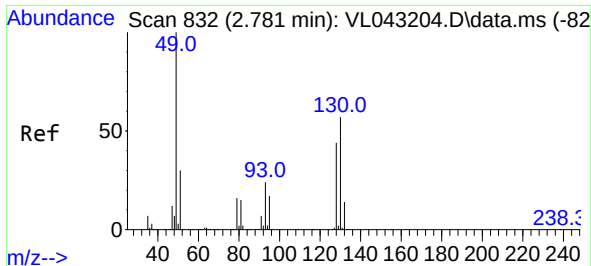
Instrument :
MSVOA_L
ClientSampleId :
SG-6

Quant Time: Nov 21 00:40:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
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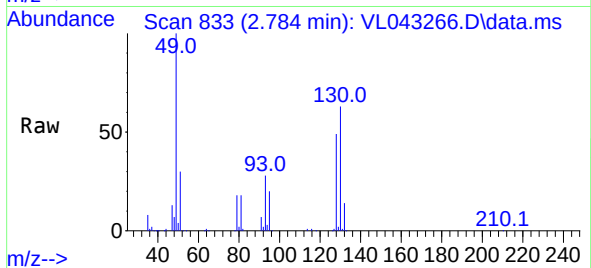
Reviewed By : Semsettin Yesilyurt 11/21/2025
Supervised By : Mahesh Dadoda 11/21/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

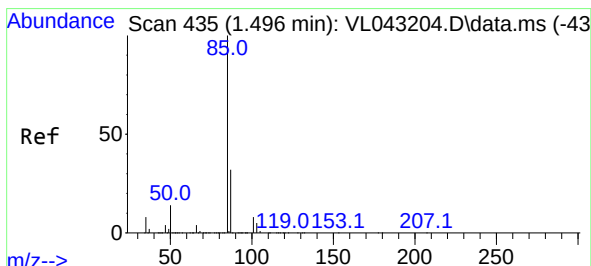
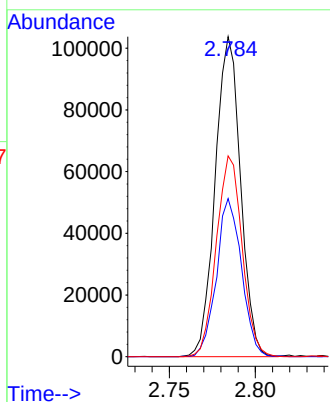
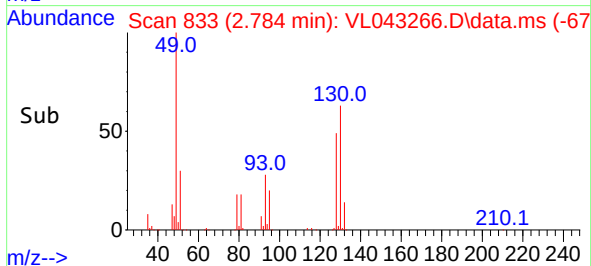
Instrument :
MSVOA_L
ClientSampleId :
SG-6



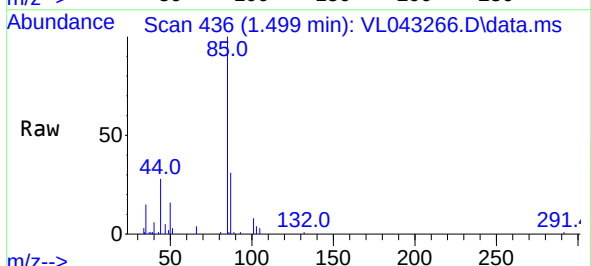
Tgt Ion: 49 Resp: 106324
Ion Ratio Lower Upper
49 100
128 48.9 23.0 69.0
130 63.8 29.9 89.7

Manual Integrations
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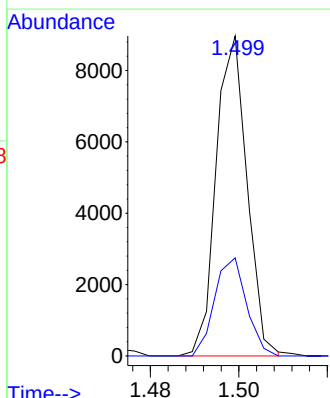
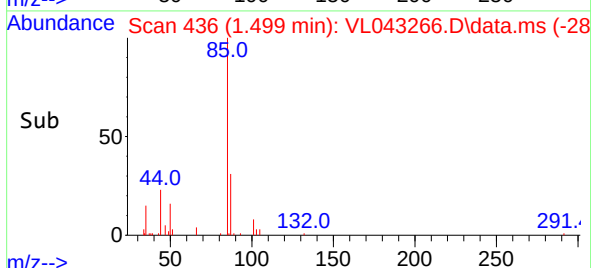
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

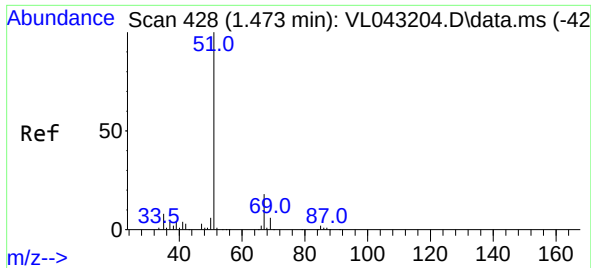


#2
Dichlorodifluoromethane
Concen: 0.290 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40



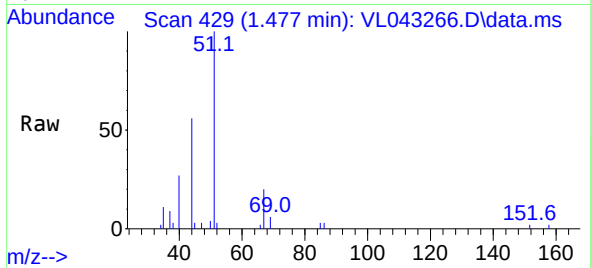
Tgt Ion: 85 Resp: 4354
Ion Ratio Lower Upper
85 100
87 30.7 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.121 ppbv m
RT: 1.477 min Scan# 429
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

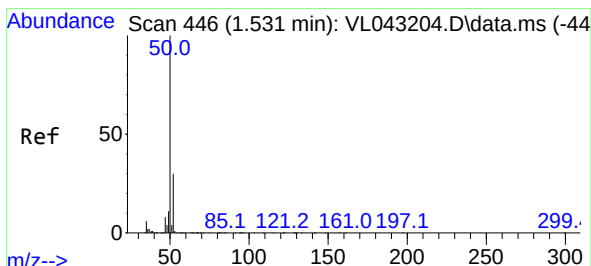
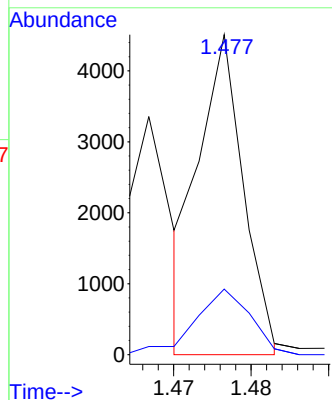
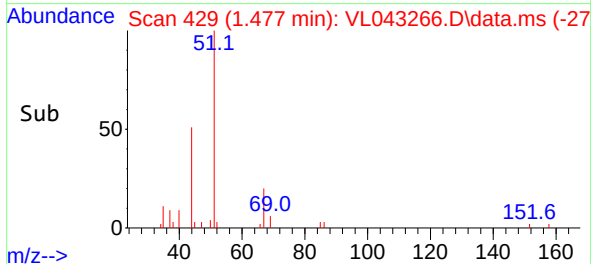
Instrument :
MSVOA_L
ClientSampleId :
SG-6



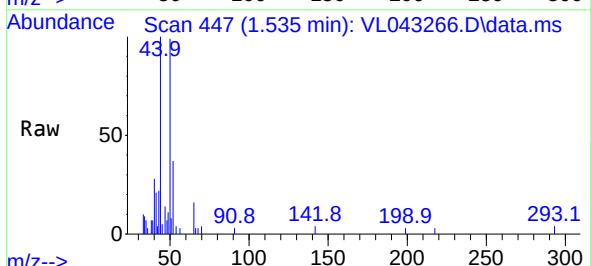
Tgt Ion: 51 Resp: 1778
Ion Ratio Lower Upper
51 100
67 26.0 14.9 22.3

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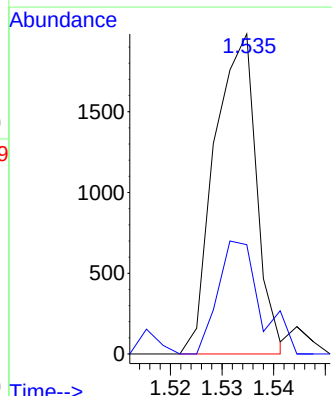
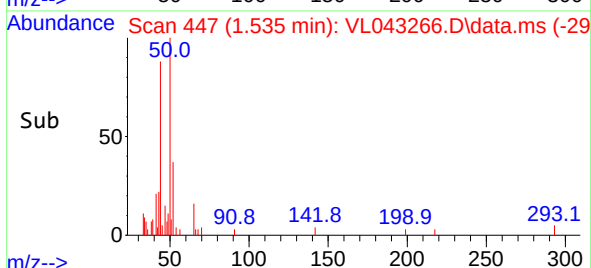
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

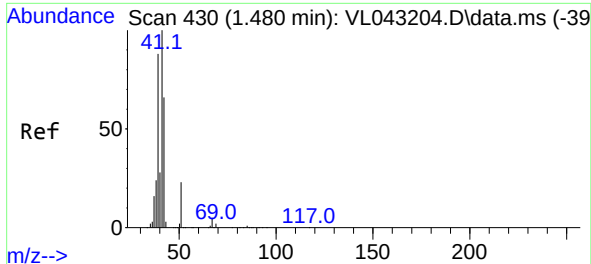


#4
Chloromethane
Concen: 0.199 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40



Tgt Ion: 50 Resp: 1115
Ion Ratio Lower Upper
50 100
52 34.2 24.1 36.1





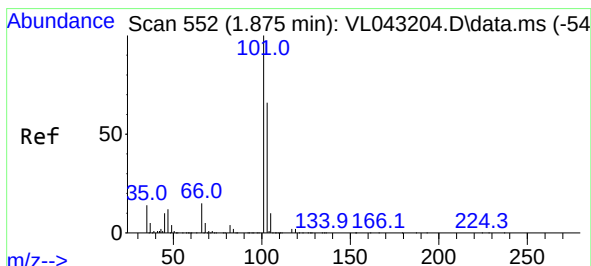
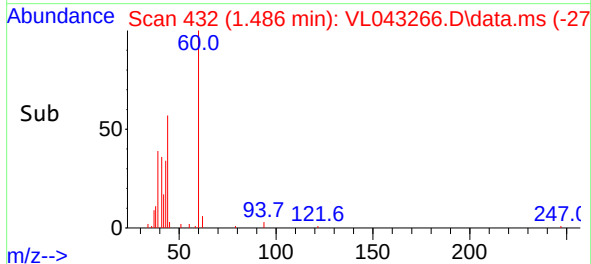
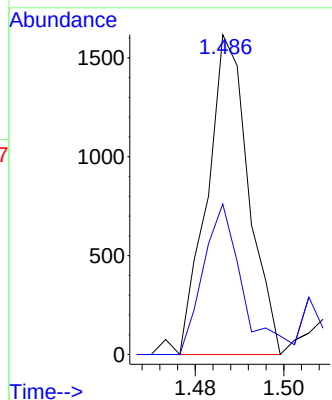
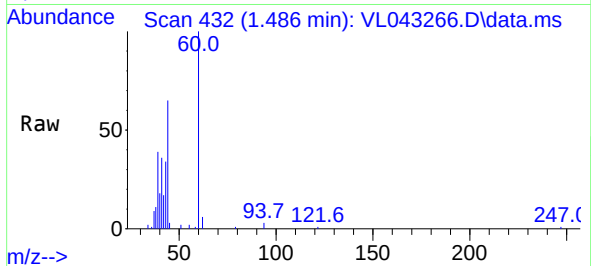
#9
Propene
Concen: 0.167 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

Instrument :
MSVOA_L
ClientSampleId :
SG-6

Tgt Ion: 41 Resp: 104
Ion Ratio Lower Upper
41 100
42 70.0 3.7 5.5

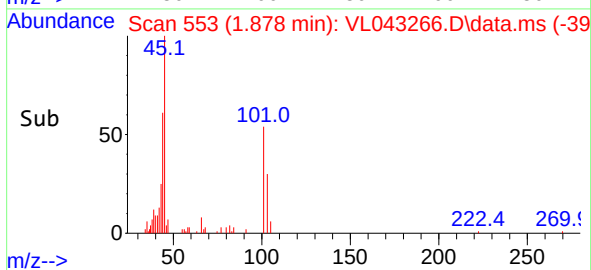
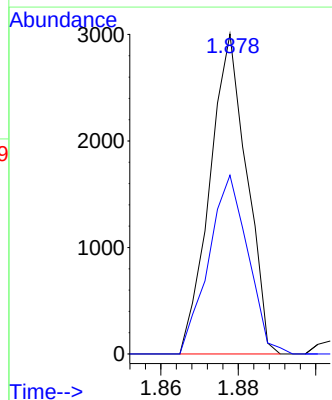
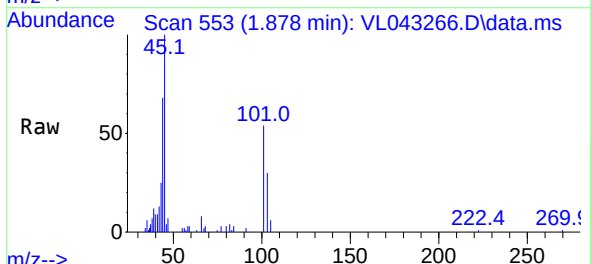
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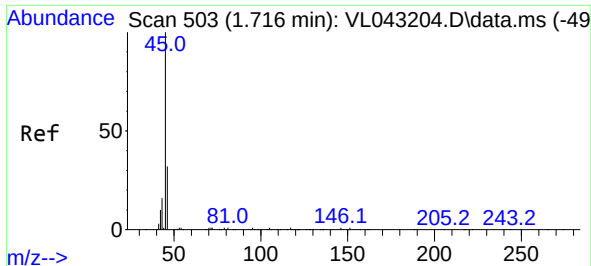
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#11
Trichlorofluoromethane
Concen: 0.137 ppbv
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

Tgt Ion:101 Resp: 1990
Ion Ratio Lower Upper
101 100
103 55.8 52.6 79.0





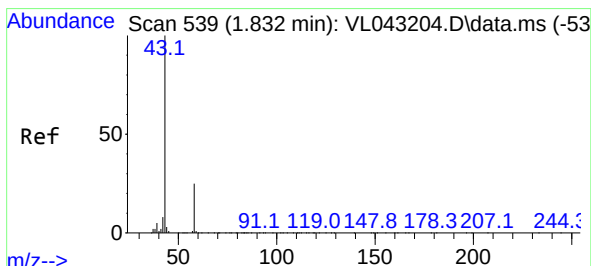
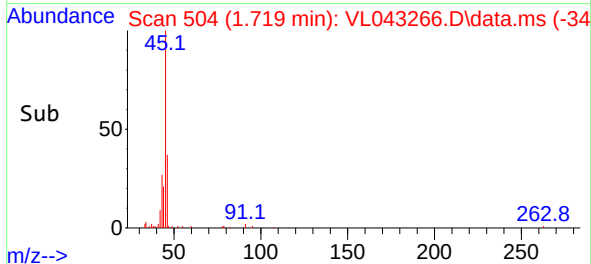
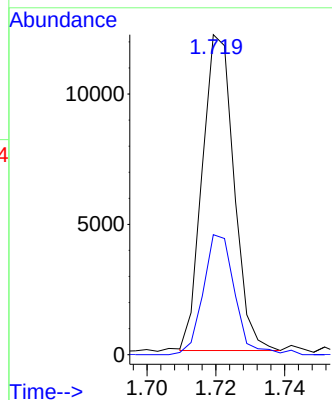
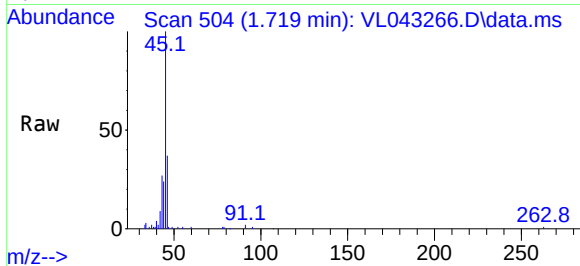
#13
Ethanol
Concen: 3.523 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

Instrument :
MSVOA_L
ClientSampleId :
SG-6

Tgt Ion: 45 Resp: 7758
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8

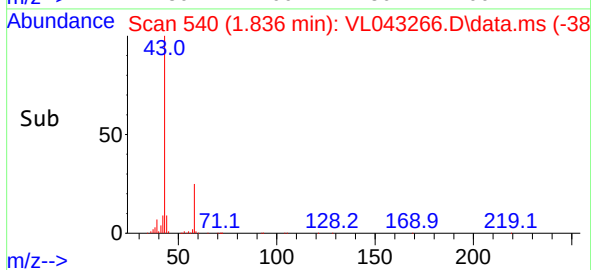
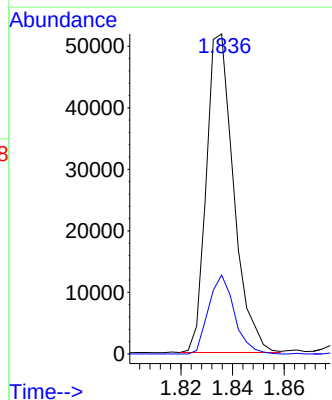
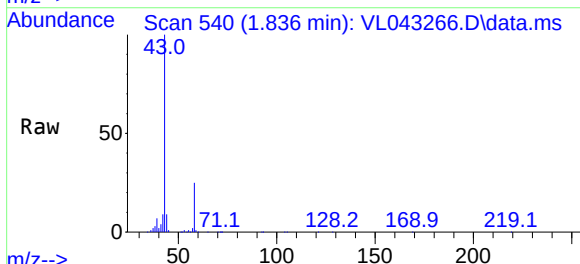
Manual Integrations
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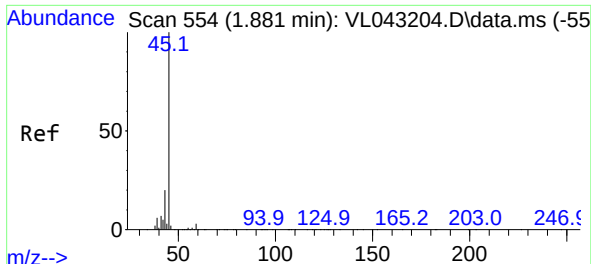
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#15
Acetone
Concen: 2.575 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

Tgt Ion: 43 Resp: 38041
Ion Ratio Lower Upper
43 100
58 23.4 20.7 31.1





#19

Isopropyl Alcohol

Concen: 1.835 ppbv

RT: 1.884 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL043266.D

Acq: 20 Nov 2025 15:40

Instrument :

MSVOA_L

ClientSampleId :

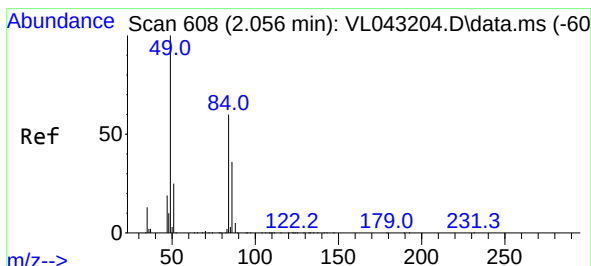
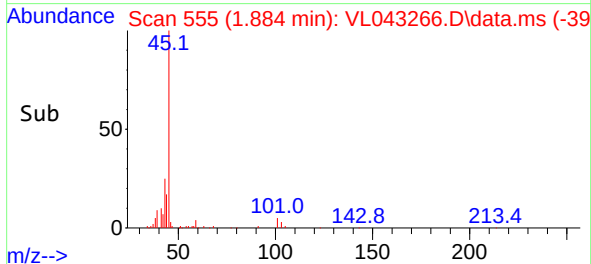
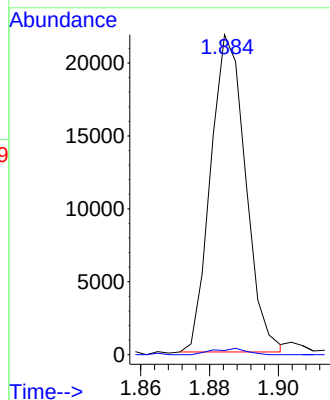
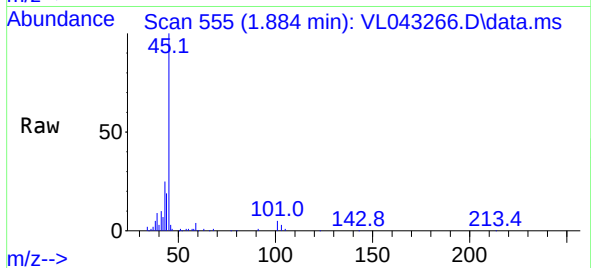
SG-6

Tgt Ion: 45 Resp: 15317
 Ion Ratio Lower Upper
 45 100
 58 58.0 31.3 46.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/21/2025
 Supervised By :Mahesh Dadoda 11/21/2025



#20

Methylene Chloride

Concen: 1.702 ppbv

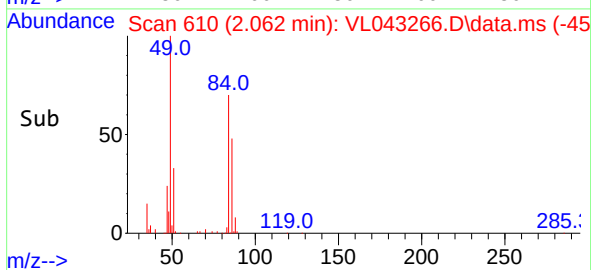
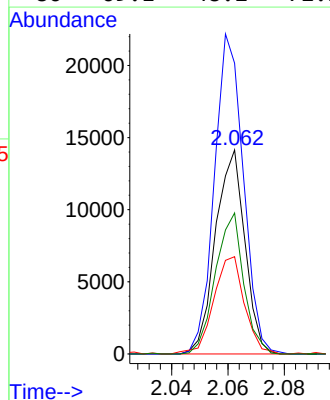
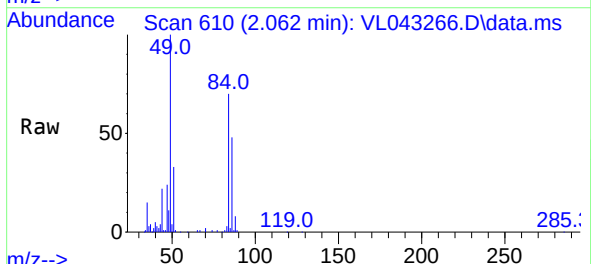
RT: 2.062 min Scan# 610

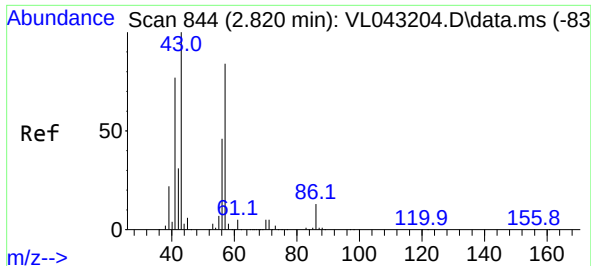
Delta R.T. 0.006 min

Lab File: VL043266.D

Acq: 20 Nov 2025 15:40

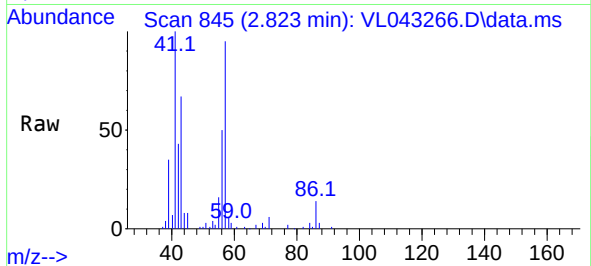
Tgt Ion: 84 Resp: 10245
 Ion Ratio Lower Upper
 84 100
 49 142.5 132.9 199.3
 51 47.7 34.8 52.2
 86 69.1 48.2 72.2





#26
Hexane
Concen: 1.186 ppbv
RT: 2.823 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

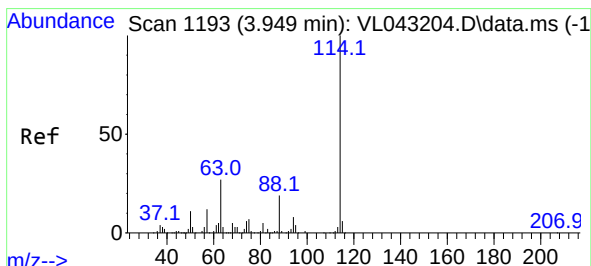
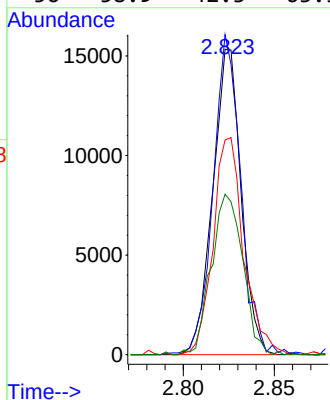
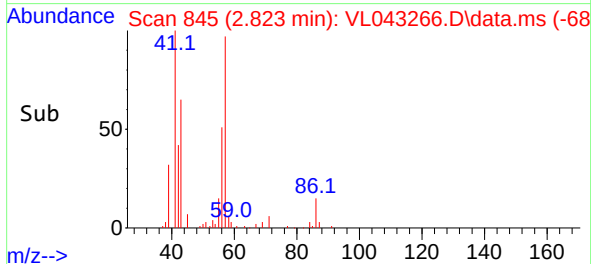
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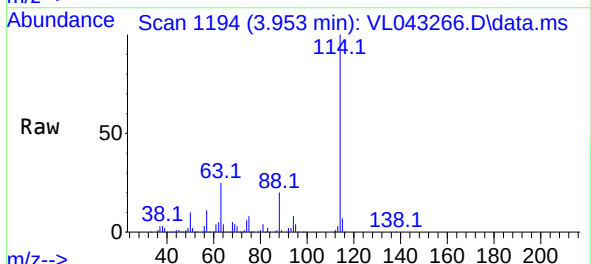
Tgt Ion: 57 Resp: 16568
Ion Ratio Lower Upper
57 100
41 102.3 74.6 111.8
43 77.5 179.0 268.4
56 58.9 42.3 63.5

Manual Integrations
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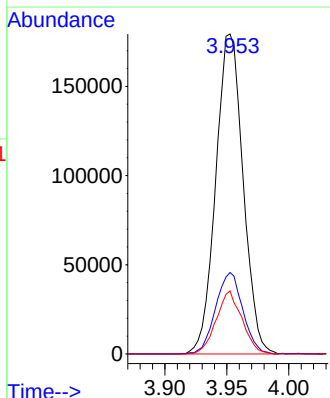
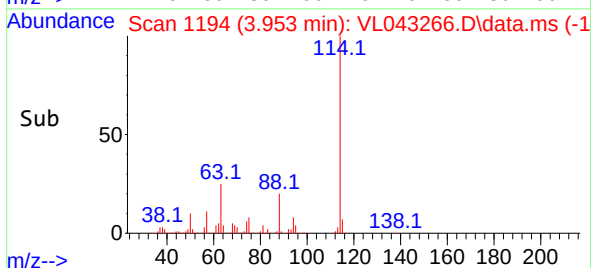
Reviewed By :Semsettin Yesilyurt 11/21/2025
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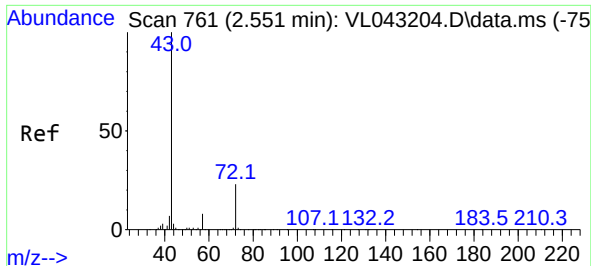


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.953 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40



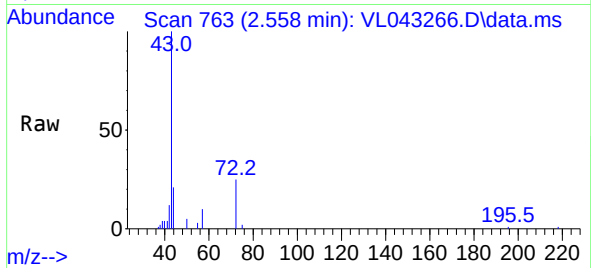
Tgt Ion:114 Resp: 275978
Ion Ratio Lower Upper
114 100
63 25.4 21.0 31.6
88 18.5 14.9 22.3





#34
2-Butanone
Concen: 0.305 ppbv
RT: 2.558 min Scan# 761
Delta R.T. 0.007 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

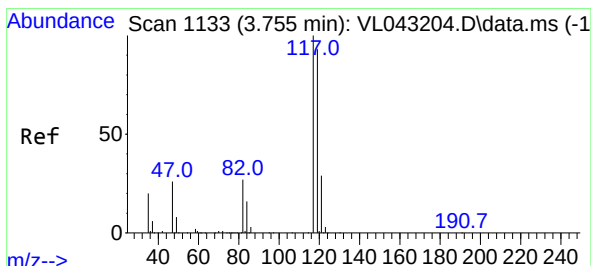
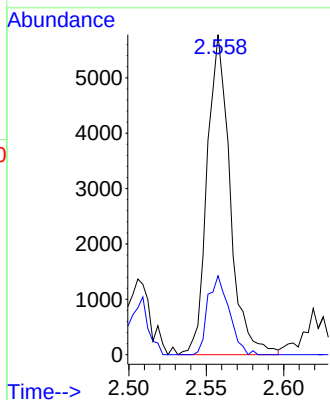
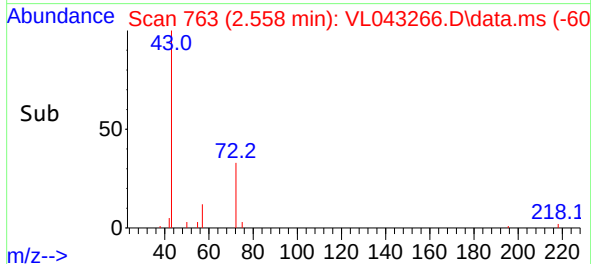
Instrument :
MSVOA_L
ClientSampleId :
SG-6



Tgt Ion: 43 Resp: 594
Ion Ratio Lower Upper
43 100
72 22.9 18.1 27.1

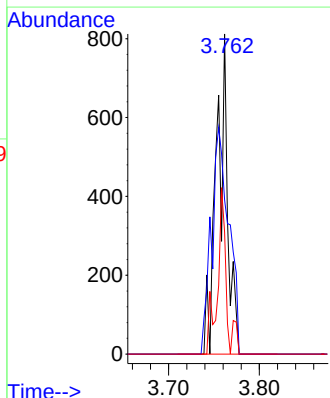
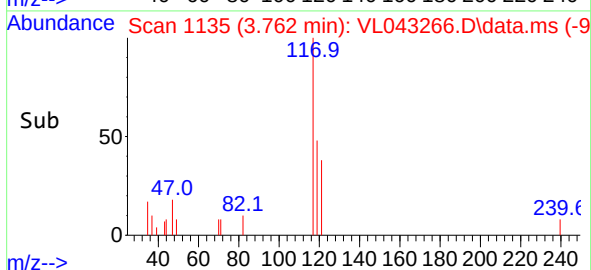
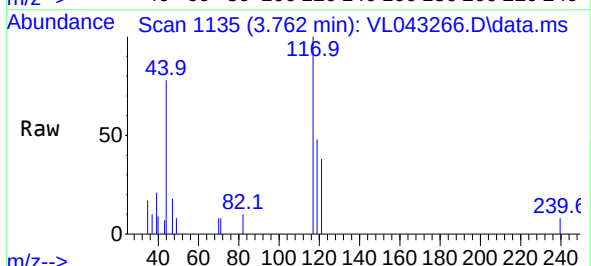
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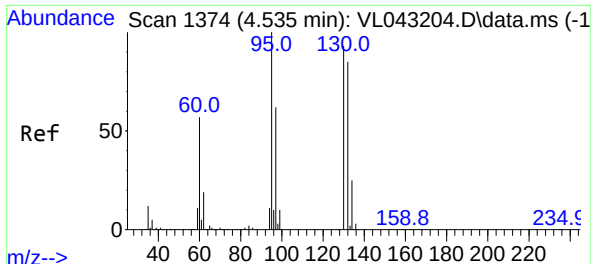
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#35
Carbon Tetrachloride
Concen: 0.033 ppbv m
RT: 3.762 min Scan# 1135
Delta R.T. 0.007 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

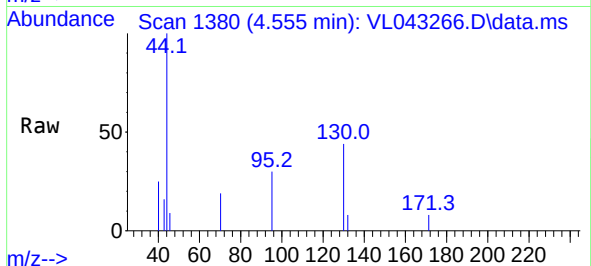
Tgt Ion:117 Resp: 698
Ion Ratio Lower Upper
117 100
119 48.2 74.6 112.0#
121 38.1 23.2 34.8#





#38
Trichloroethene
Concen: 0.042 ppbv m
RT: 4.555 min Scan# 1380
Delta R.T. 0.020 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

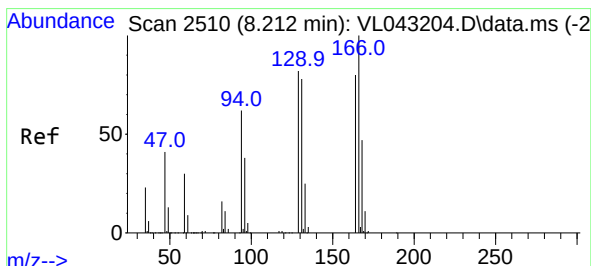
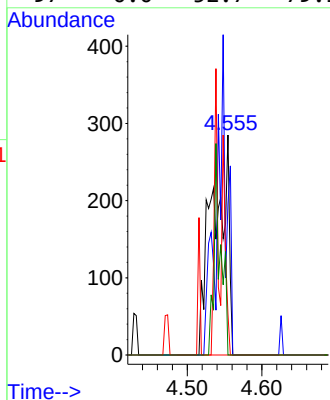
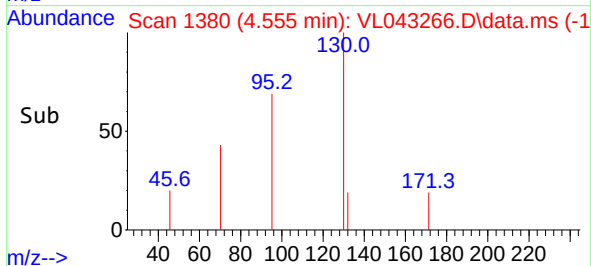
Instrument :
MSVOA_L
ClientSampleId :
SG-6



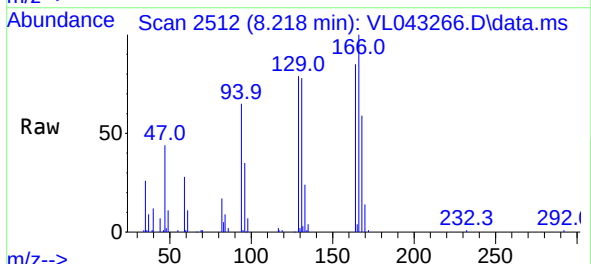
Tgt Ion:130 Resp: 430
Ion Ratio Lower Upper
130 100
95 68.8 85.7 128.5
132 18.6 73.4 110.0
97 0.0 52.7 79.1

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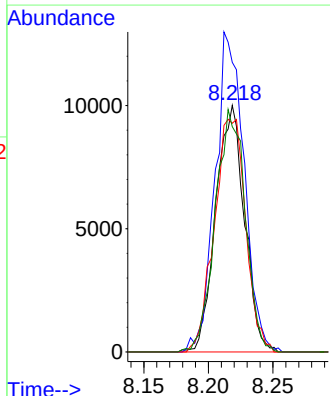
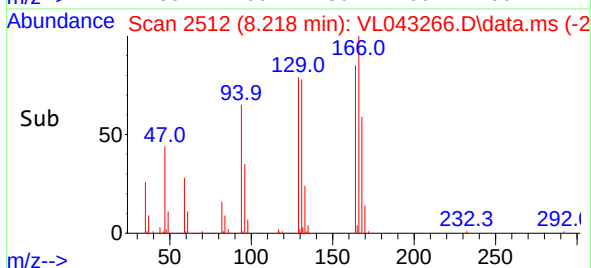
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

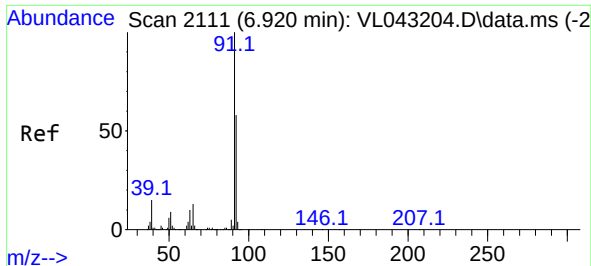


#52
Tetrachloroethene
Concen: 1.578 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. 0.007 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40



Tgt Ion:164 Resp: 15513
Ion Ratio Lower Upper
164 100
166 117.4 99.4 149.2
129 92.7 81.8 122.8
131 94.5 77.4 116.2





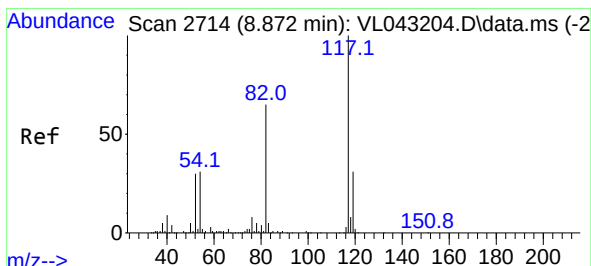
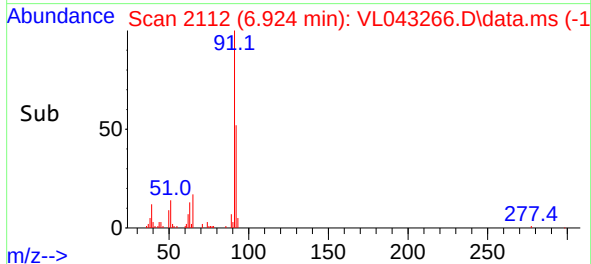
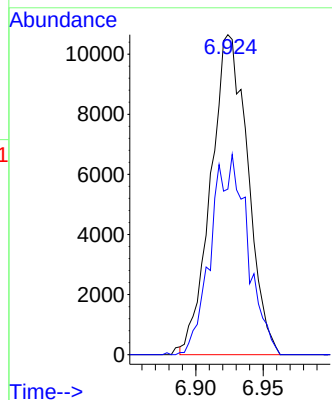
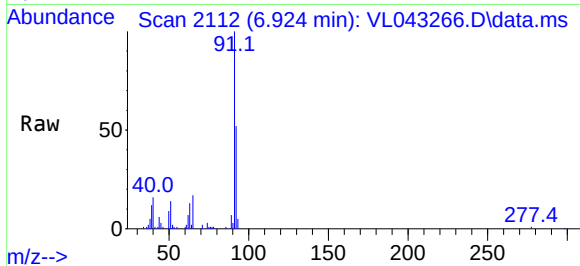
#53
Toluene
Concen: 0.648 ppbv
RT: 6.924 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

Instrument :
MSVOA_L
ClientSampleId :
SG-6

Tgt Ion: 91 Resp: 2029
Ion Ratio Lower Upper
91 100
92 62.0 47.4 71.0

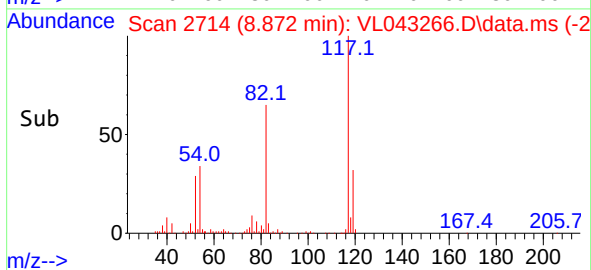
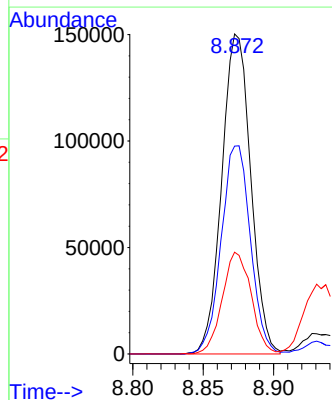
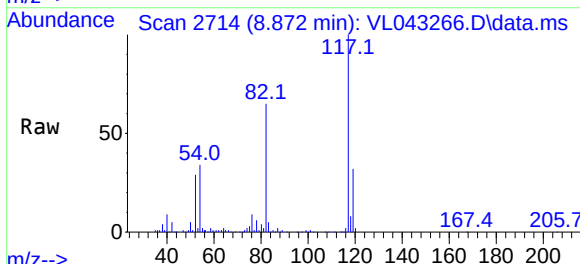
Manual Integrations
APPROVED

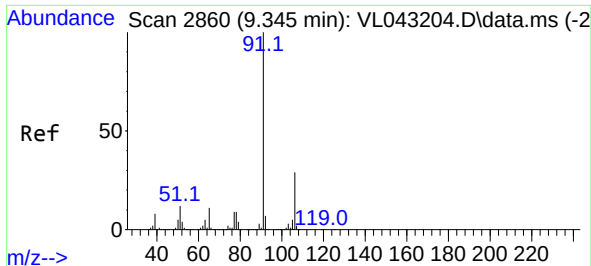
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. 0.000 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

Tgt Ion:117 Resp: 215672
Ion Ratio Lower Upper
117 100
82 65.8 56.1 84.1
119 31.7 25.0 37.6





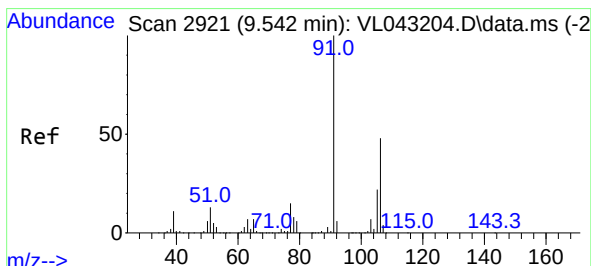
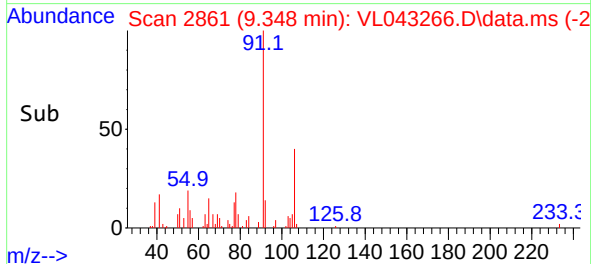
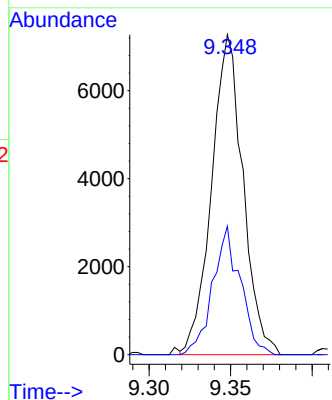
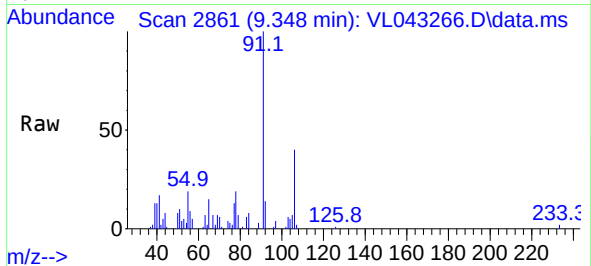
#58
Ethyl Benzene
Concen: 0.234 ppbv
RT: 9.348 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

Instrument :
MSVOA_L
ClientSampleId :
SG-6

Tgt Ion: 91 Resp: 973
Ion Ratio Lower Upper
91 100
106 40.2 22.8 34.2

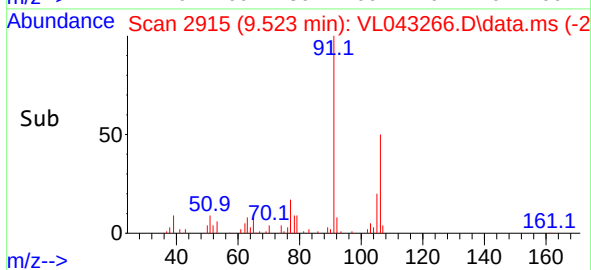
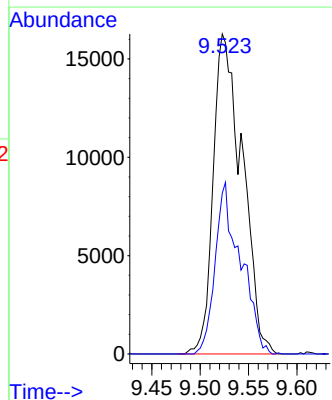
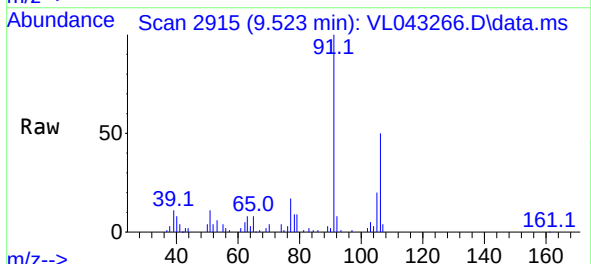
Manual Integrations
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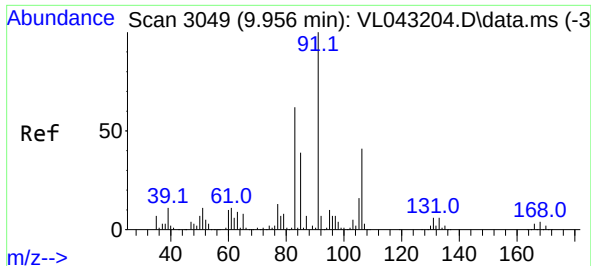
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#59
m/p-Xylene
Concen: 1.018 ppbv m
RT: 9.523 min Scan# 2915
Delta R.T. -0.019 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

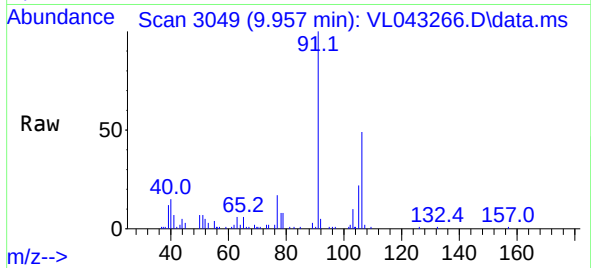
Tgt Ion: 91 Resp: 33888
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#





#60
o-Xylene
Concen: 0.328 ppbv
RT: 9.957 min Scan# 3049
Delta R.T. 0.000 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

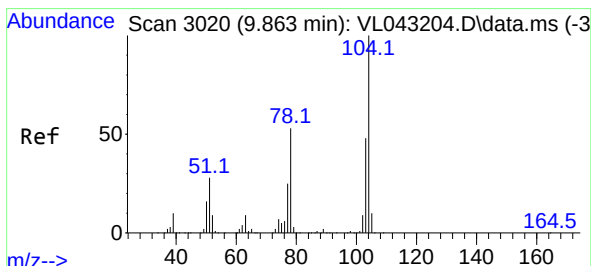
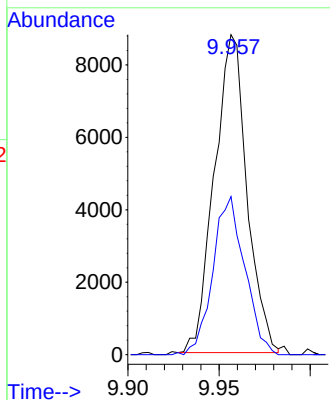
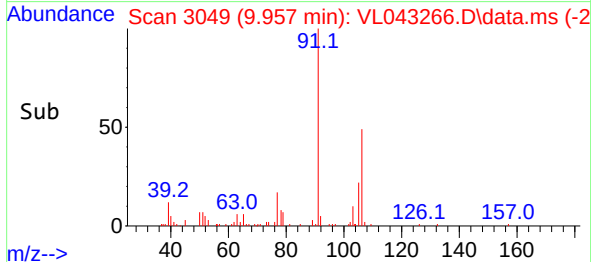
Instrument :
MSVOA_L
ClientSampleId :
SG-6



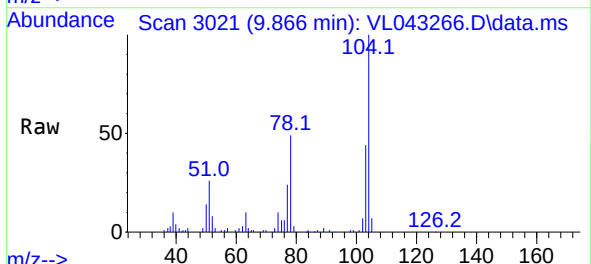
Tgt Ion: 91 Resp: 10915
Ion Ratio Lower Upper
91 100
106 48.6 20.9 62.8

Manual Integrations
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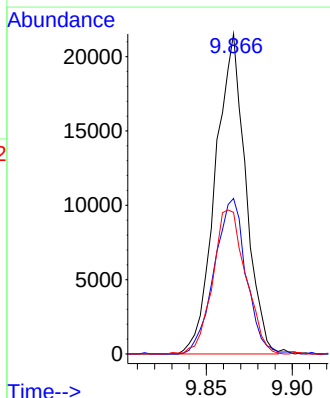
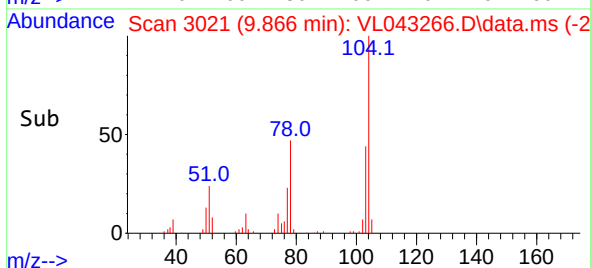
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

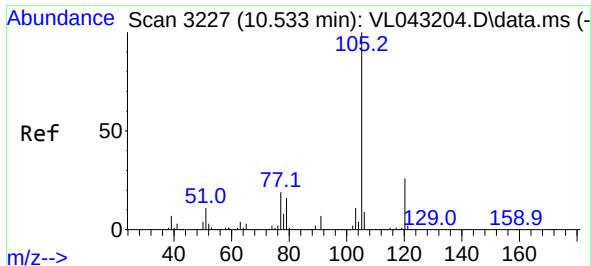


#61
Styrene
Concen: 1.807 ppbv
RT: 9.866 min Scan# 3021
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40



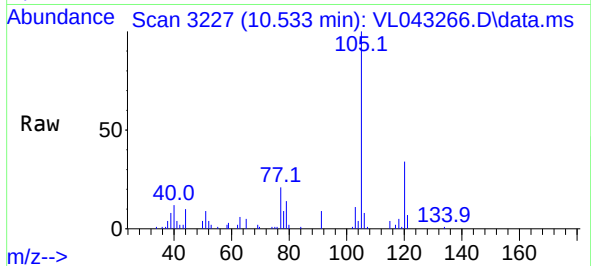
Tgt Ion:104 Resp: 26295
Ion Ratio Lower Upper
104 100
78 51.3 42.1 63.1
103 49.5 37.2 55.8





#62
Isopropylbenzene
Concen: 0.172 ppbv
RT: 10.533 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

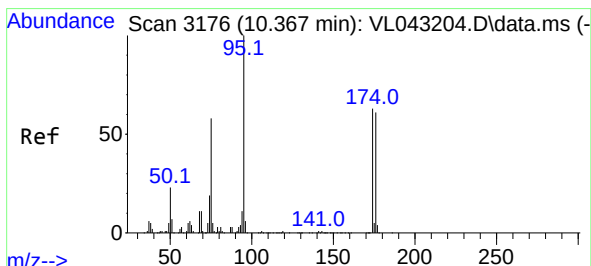
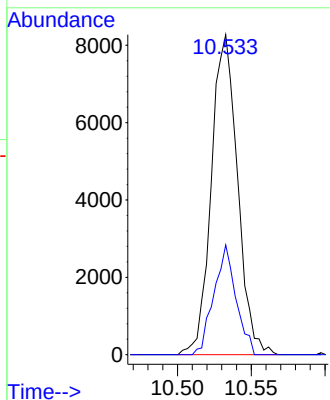
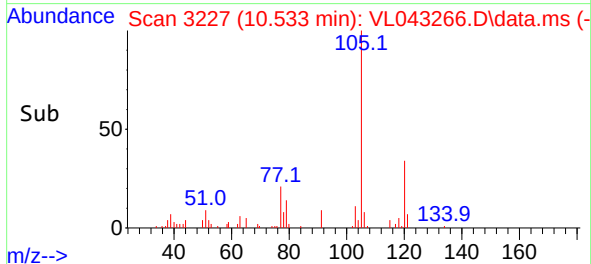
Instrument :
MSVOA_L
ClientSampleId :
SG-6



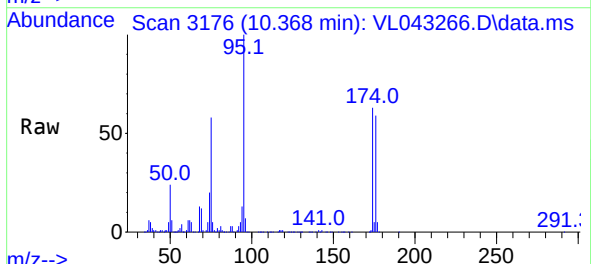
Tgt Ion:105 Resp: 10238
Ion Ratio Lower Upper
105 100
120 28.9 19.8 29.8

Manual Integrations
APPROVED

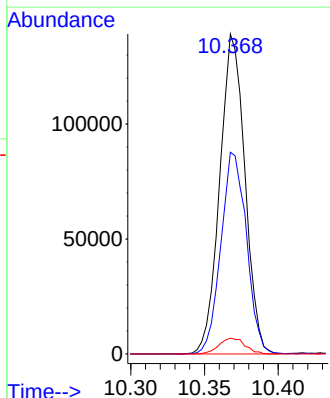
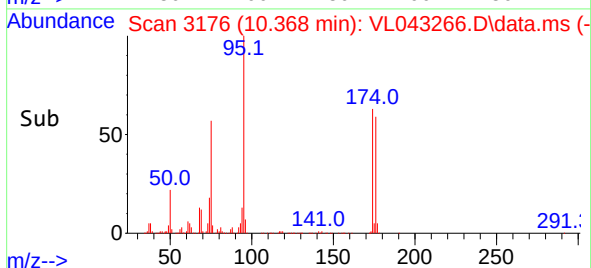
Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025

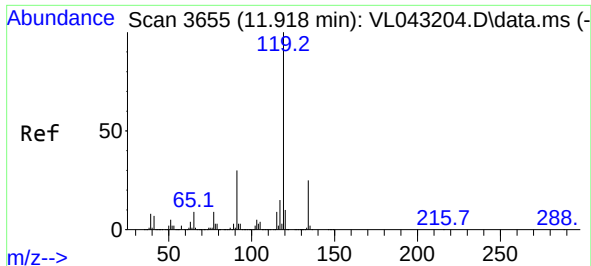


#68
1-Bromo-4-Fluorobenzene
Concen: 10.438 ppbv
RT: 10.368 min Scan# 3176
Delta R.T. 0.000 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40



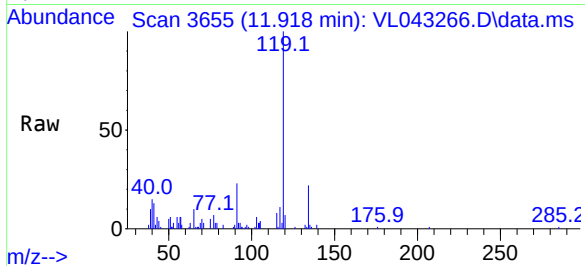
Tgt Ion: 95 Resp: 165012
Ion Ratio Lower Upper
95 100
174 64.1 50.2 75.2
175 5.1 4.1 6.1





#69
p-Isopropyltoluene
Concen: 0.153 ppbv
RT: 11.918 min Scan# 3655
Delta R.T. 0.000 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40

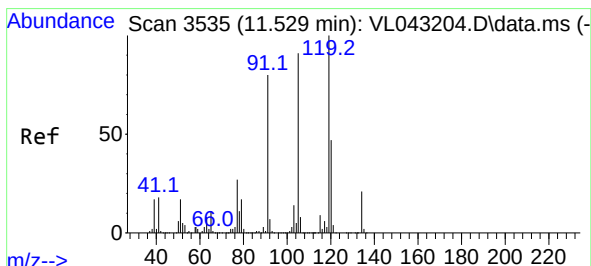
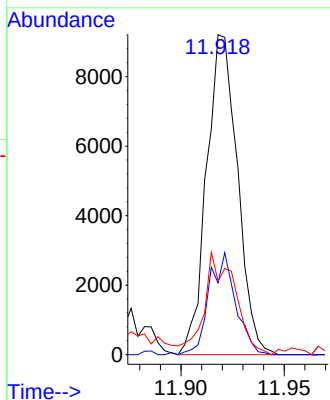
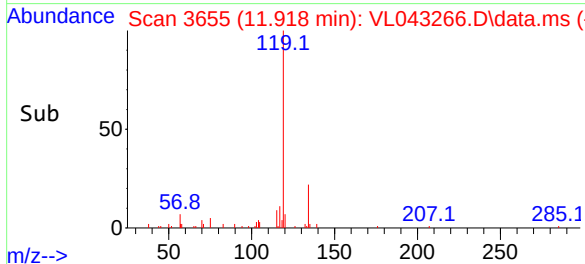
Instrument :
MSVOA_L
ClientSampleId :
SG-6



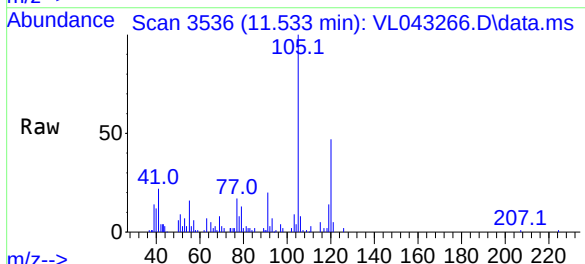
Tgt Ion:119 Resp: 959
Ion Ratio Lower Upper
119 100
134 27.9 20.2 30.2
91 35.1 23.8 35.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/21/2025
Supervised By :Mahesh Dadoda 11/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.375 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL043266.D
Acq: 20 Nov 2025 15:40



Tgt Ion:105 Resp: 13894
Ion Ratio Lower Upper
105 100
120 46.6 41.7 62.5
91 19.1 70.0 105.0#
77 16.0 23.8 35.8#

