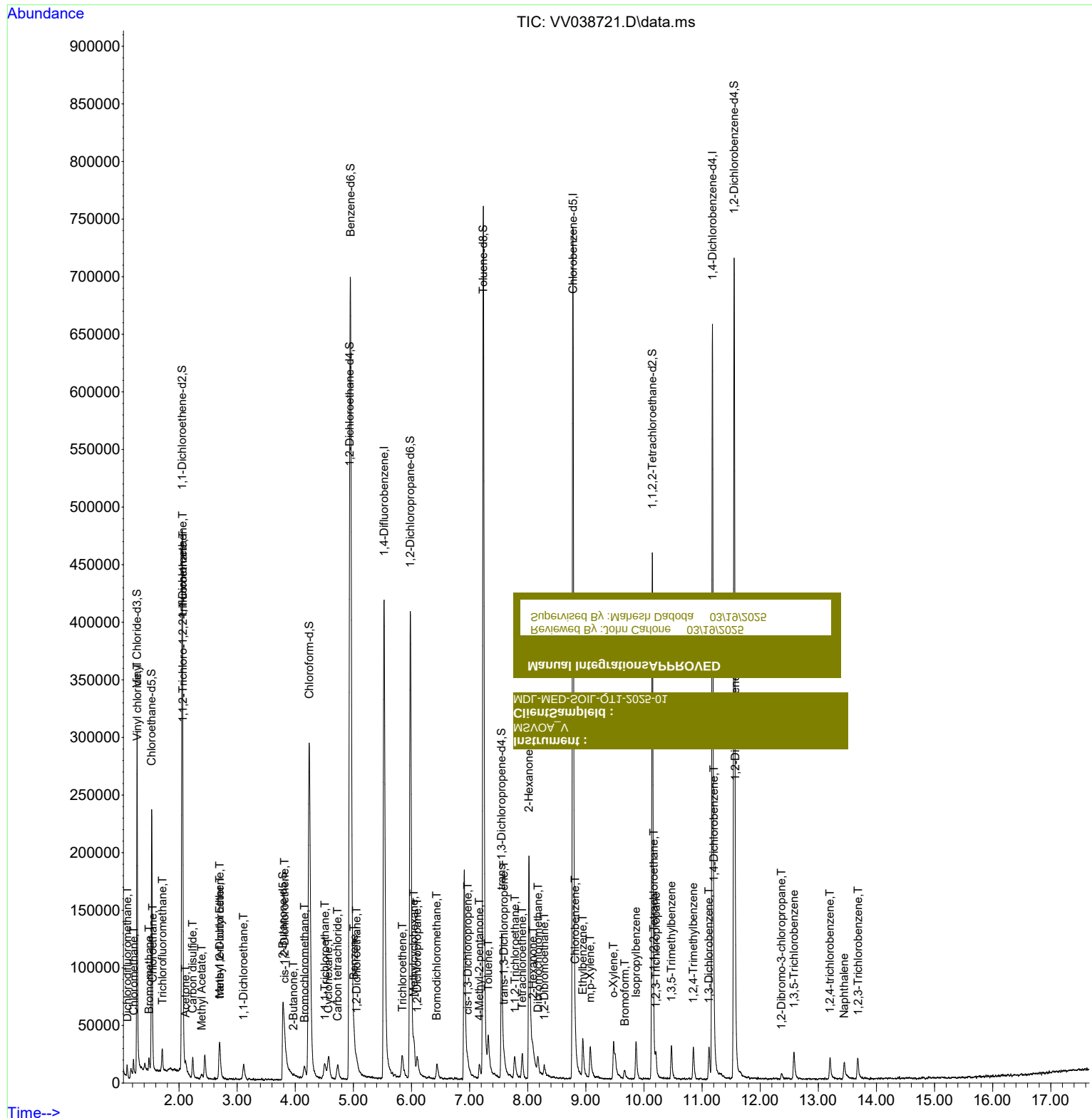
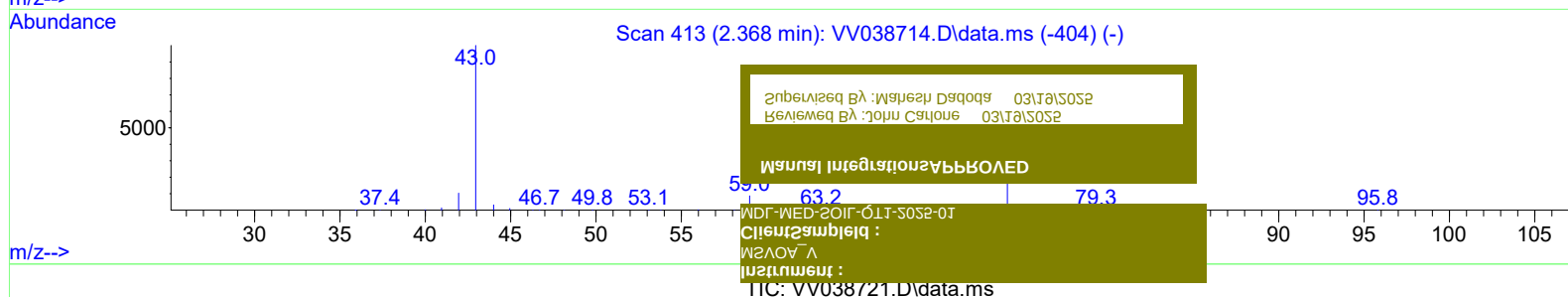
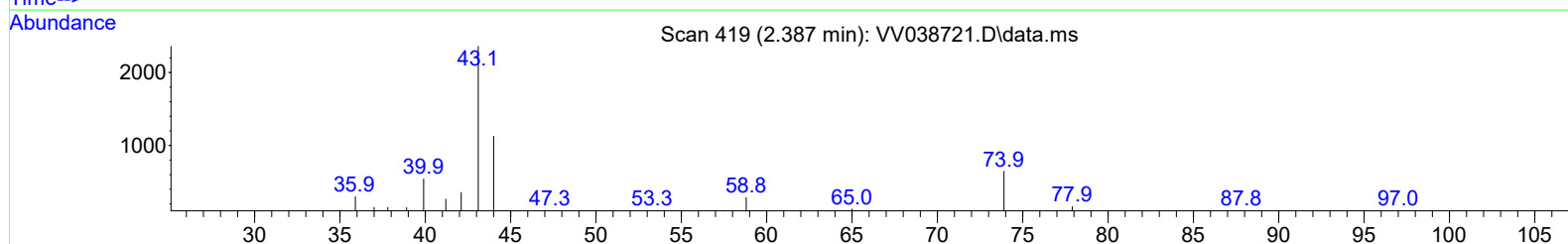
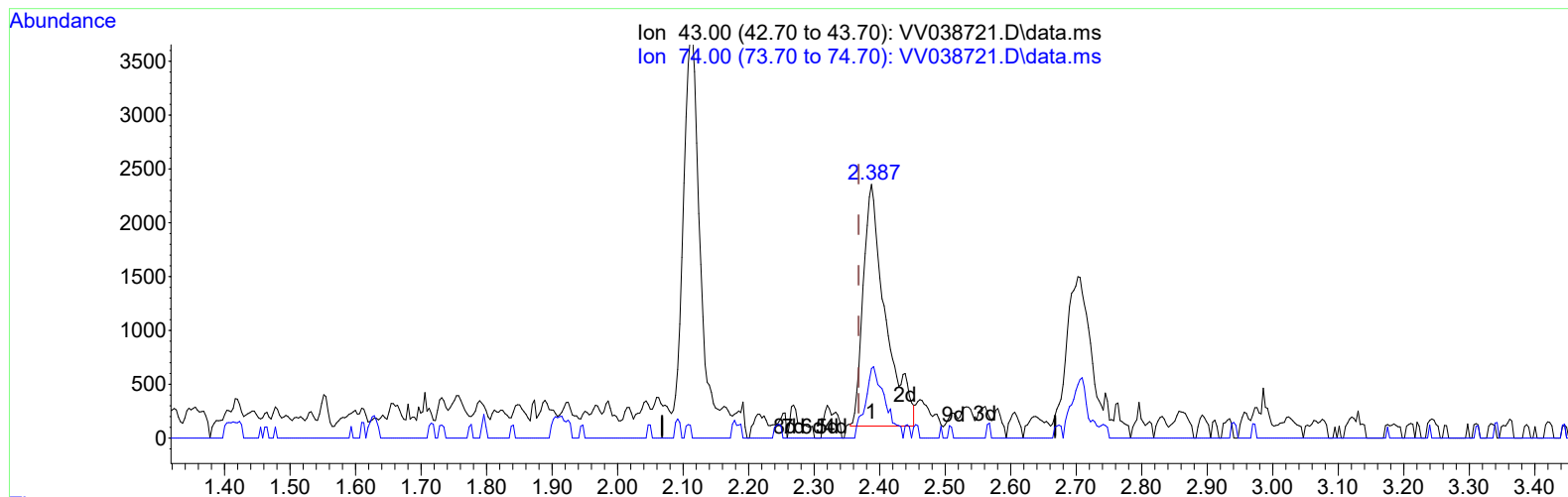


Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



(15) Methyl Acetate (T)

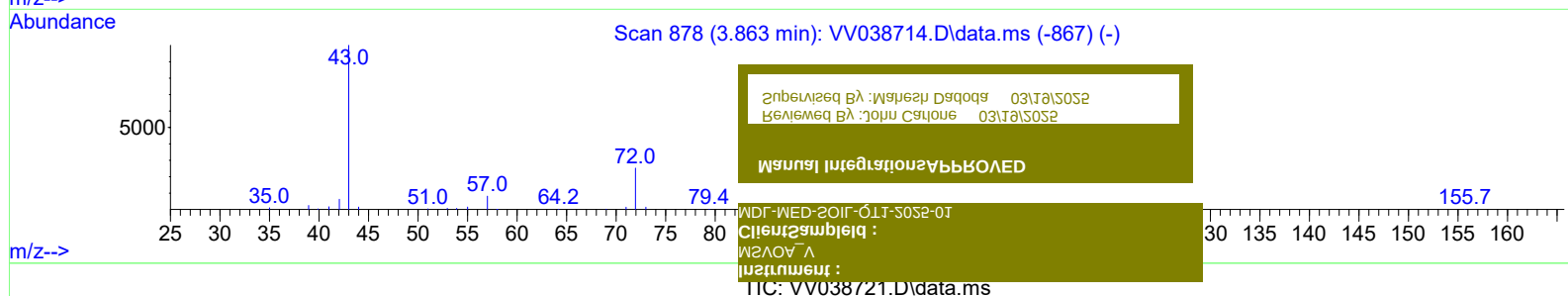
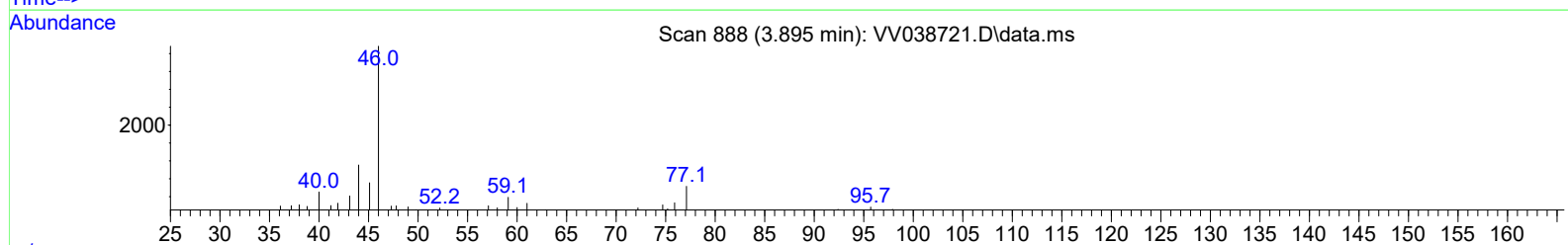
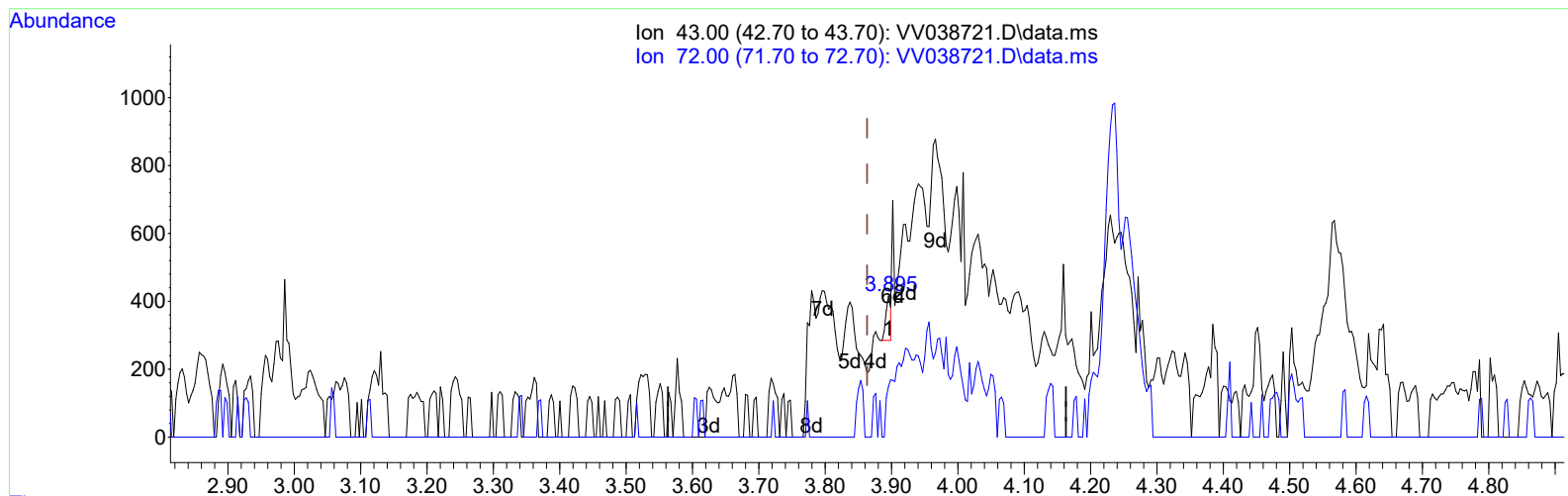
2.387min (+ 0.019) 1.99 ug/L m

```
response      5250
```

Ion	Exp%	Act%
43.00	100.00	100.00
74.00	25.80	25.07
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



(22) 2-Butanone (T)

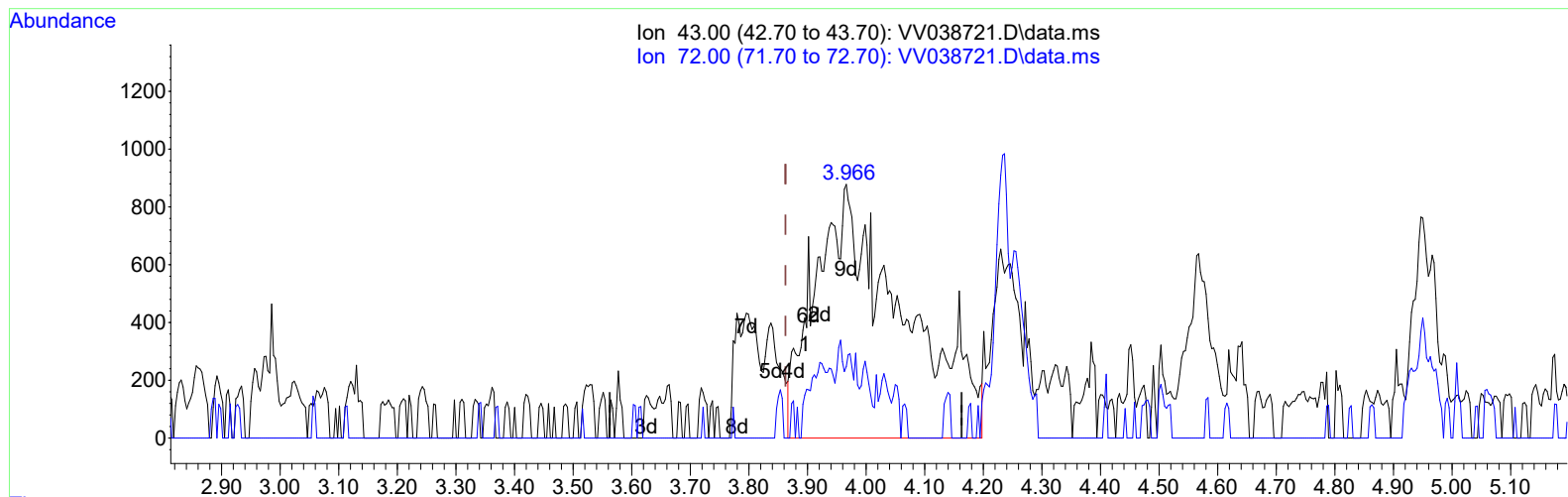
3.895min (+ 0.032) 0.04 ug/L

response 66

Ion	Exp%	Act%
43.00	100.00	100.00
72.00	25.00	31.82
0.00	0.00	0.00
0.00	0.00	0.00

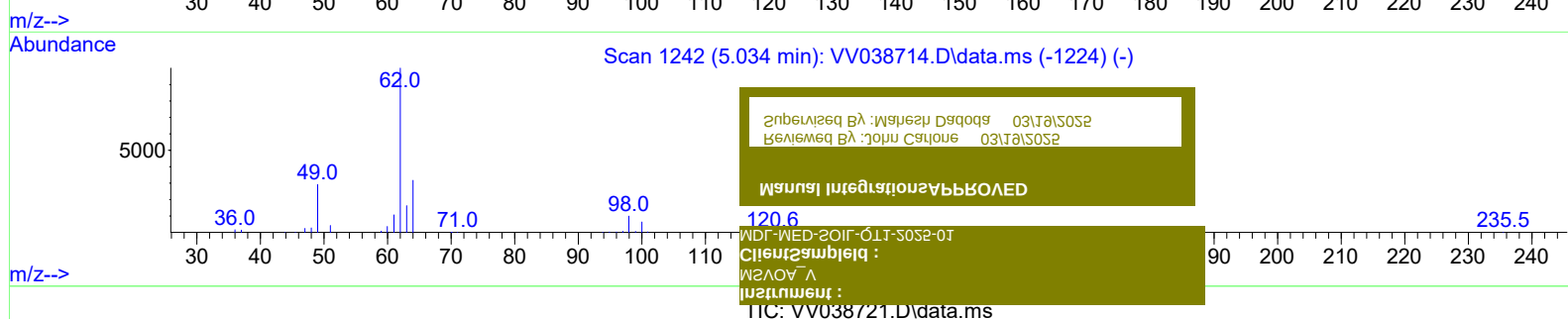
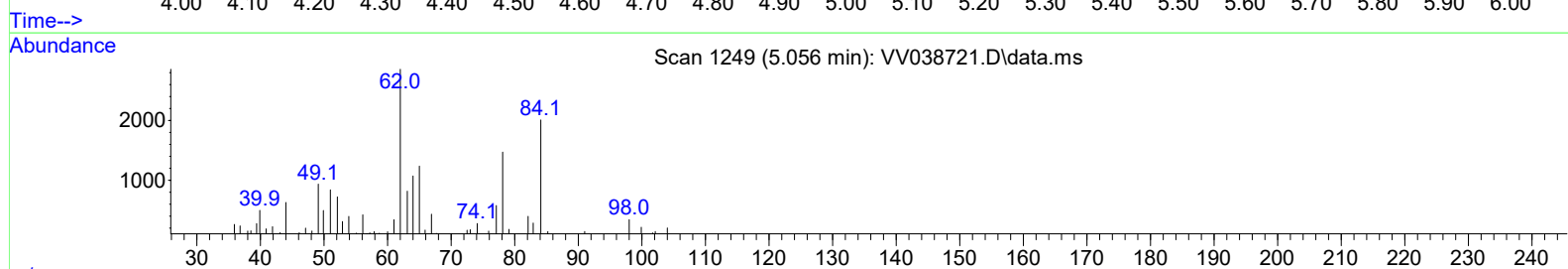
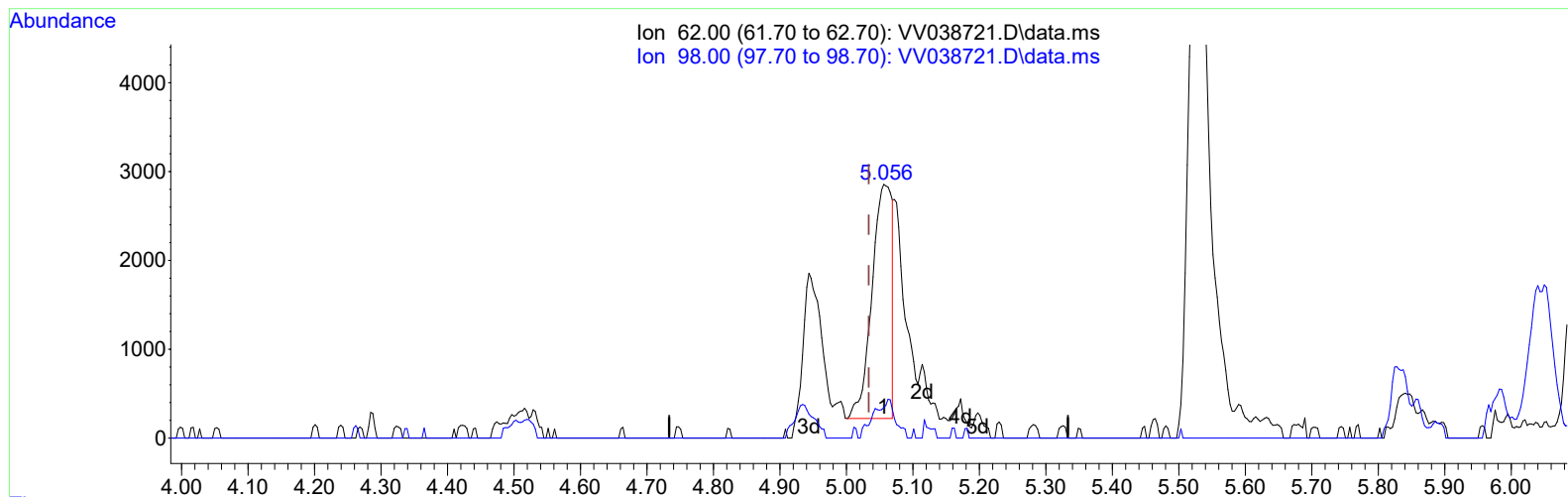
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



(27) 1,2-Dichloroethane (T)

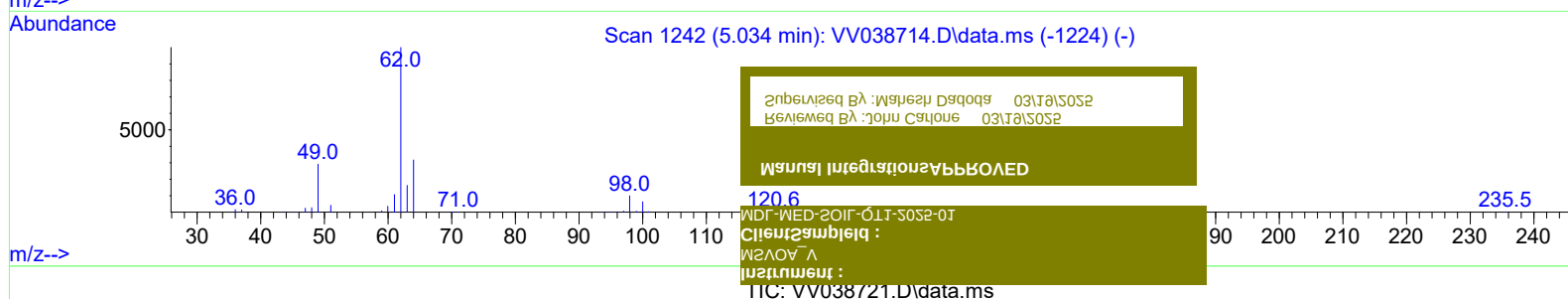
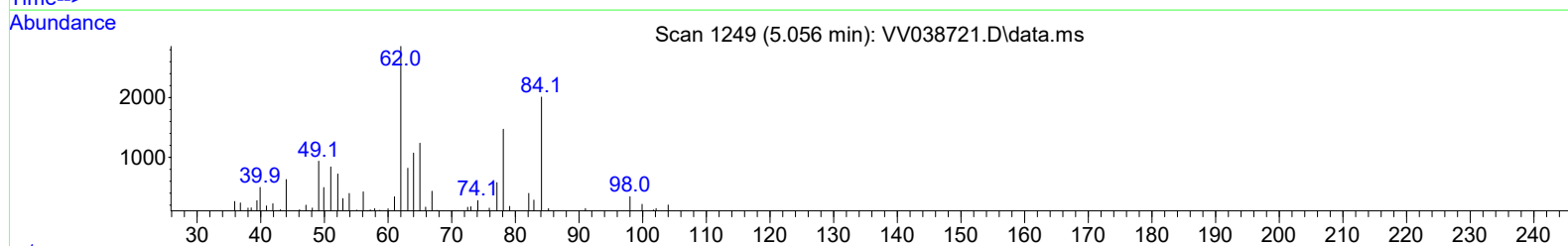
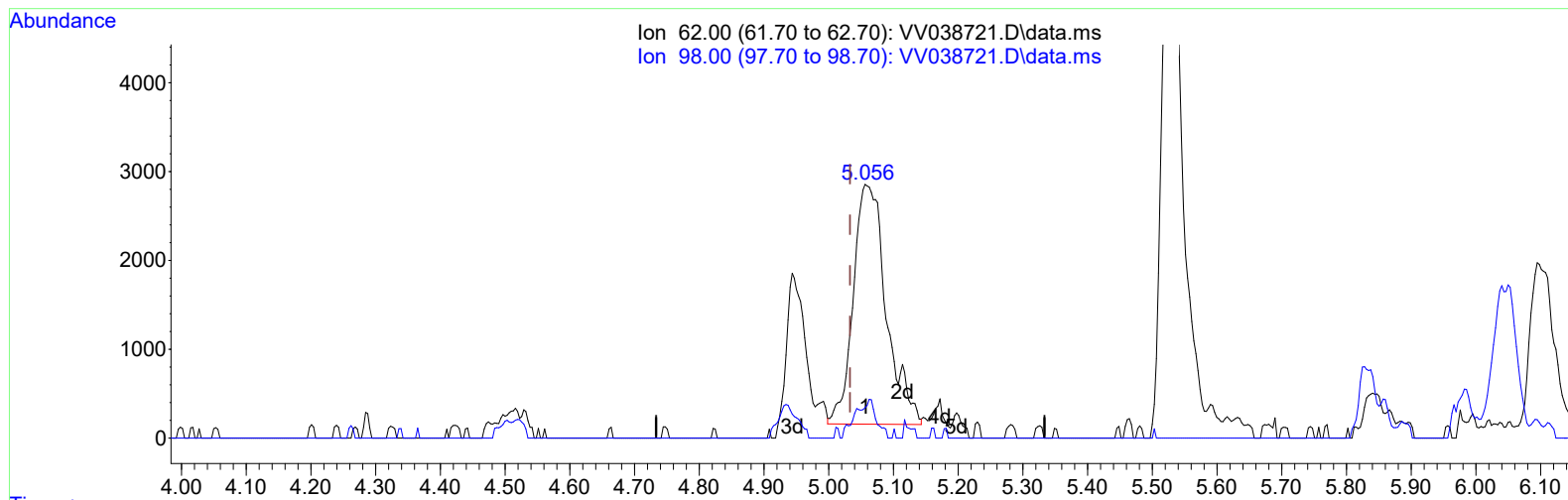
5.056min (+ 0.022) 1.24 ug/L

response 5477

Ion	Exp%	Act%
62.00	100.00	100.00
98.00	9.40	11.97#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



(27) 1,2-Dichloroethane (T)

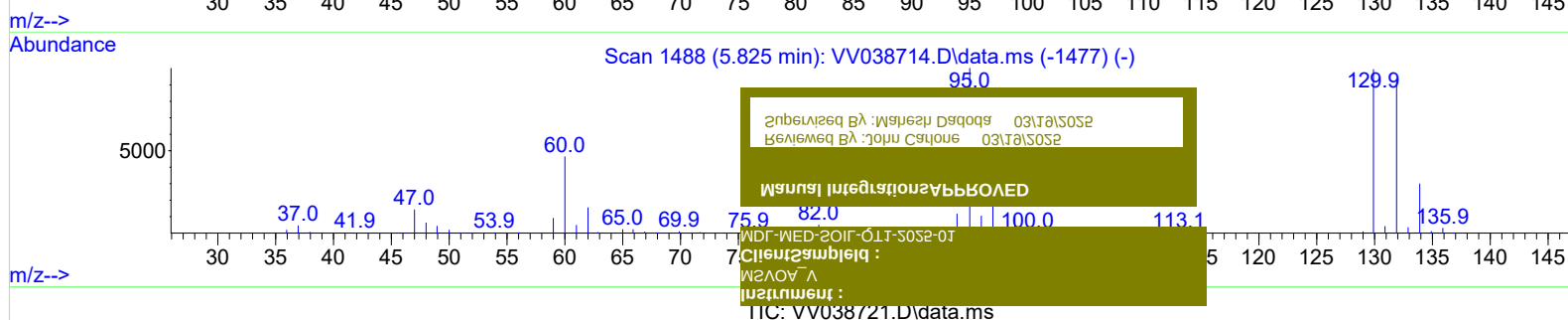
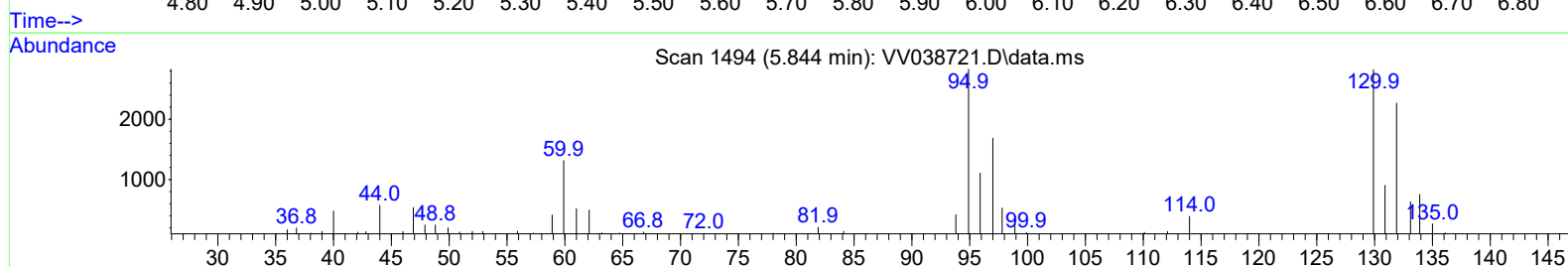
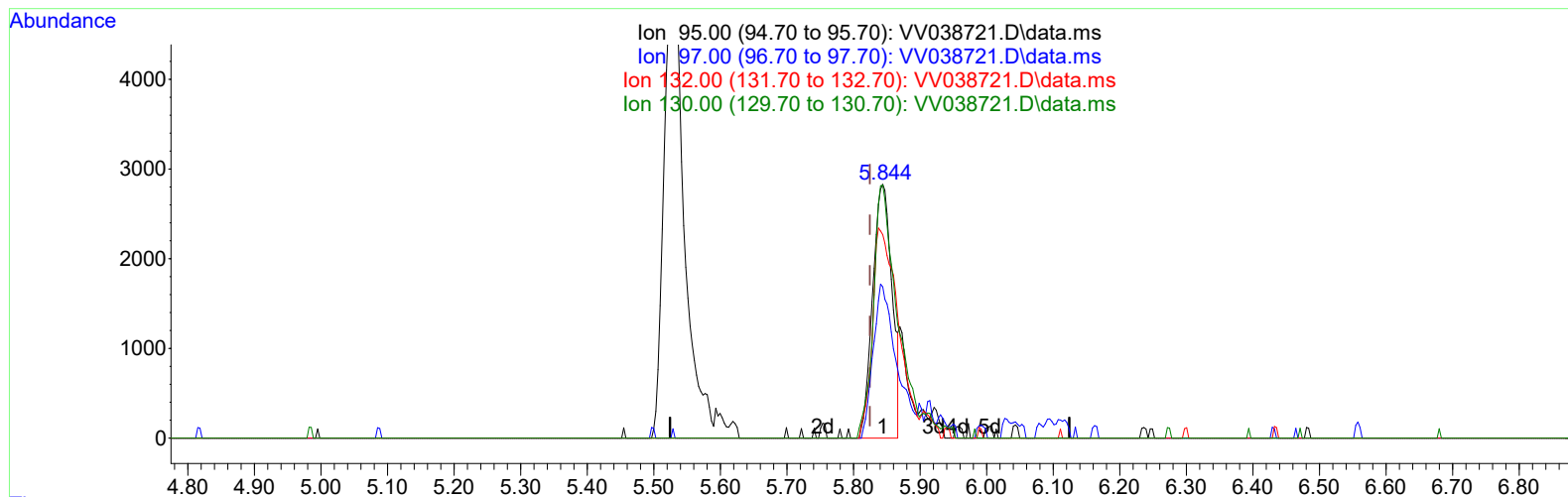
5.056min (+ 0.022) 2.16 ug/L m

response 9550

Ion	Exp%	Act%
62.00	100.00	100.00
98.00	9.40	11.97#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



(34) Trichloroethene (T)

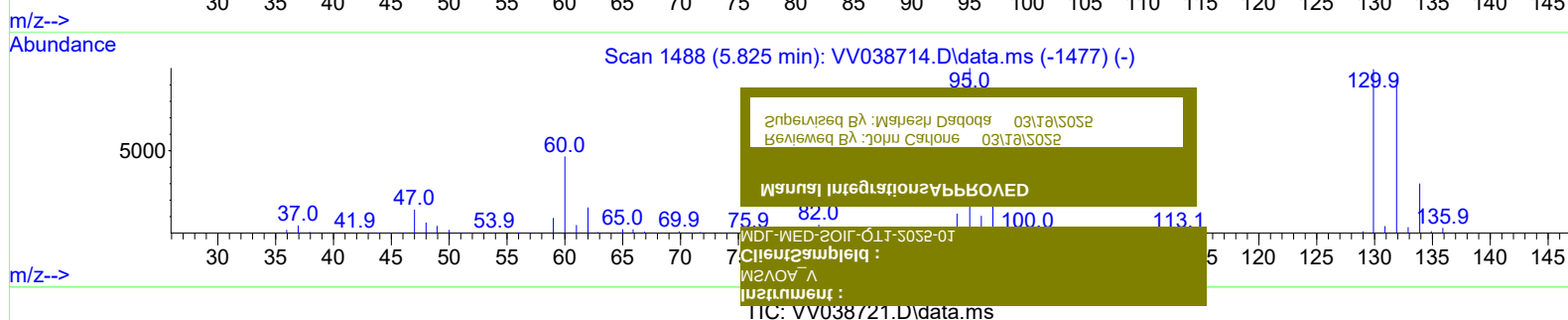
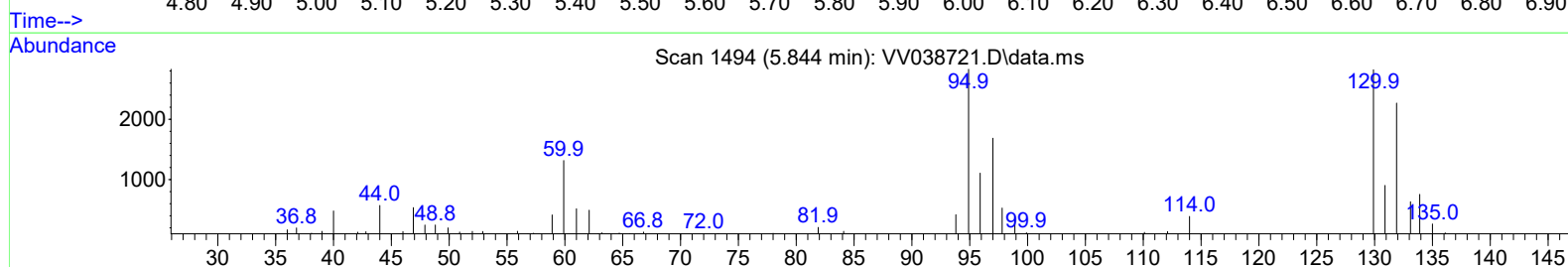
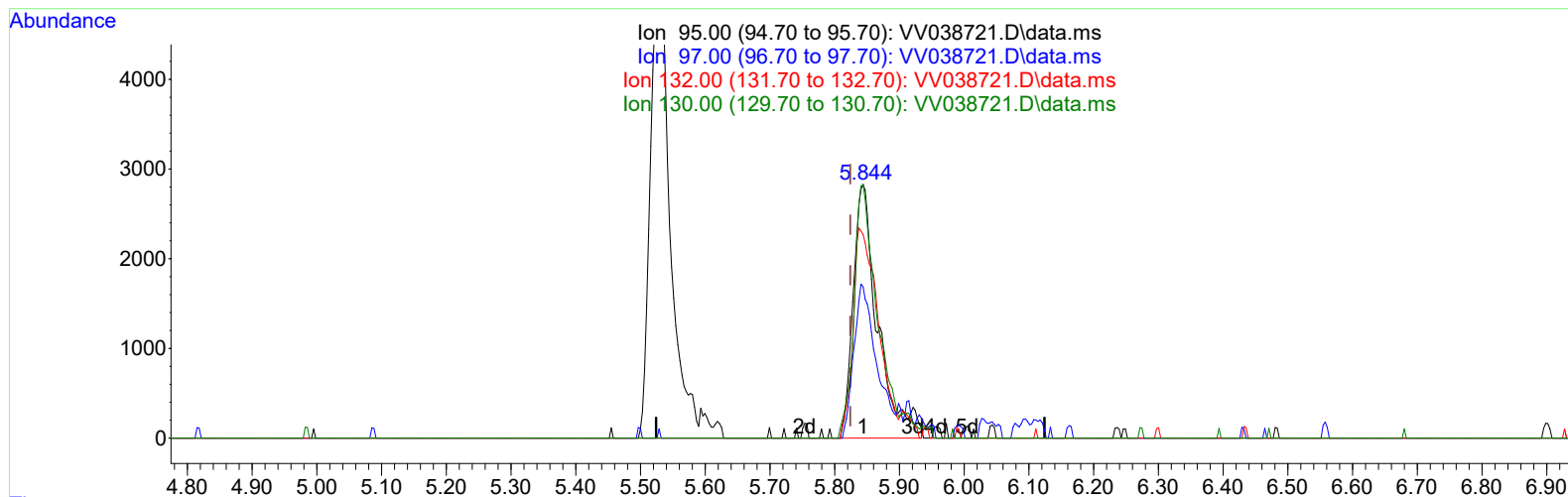
5.844min (+ 0.019) 1.81 ug/L

response 5687

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	65.20	59.60
132.00	96.60	80.17
130.00	101.20	99.72

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



(34) Trichloroethene (T)

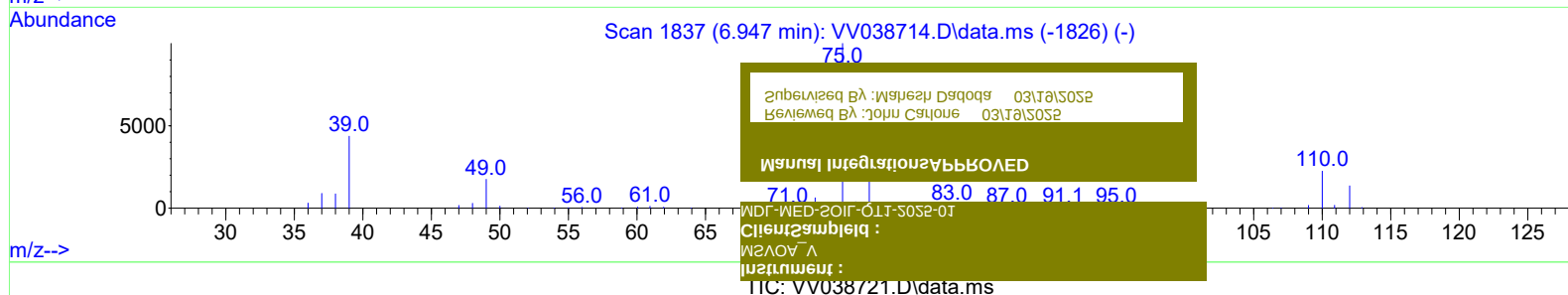
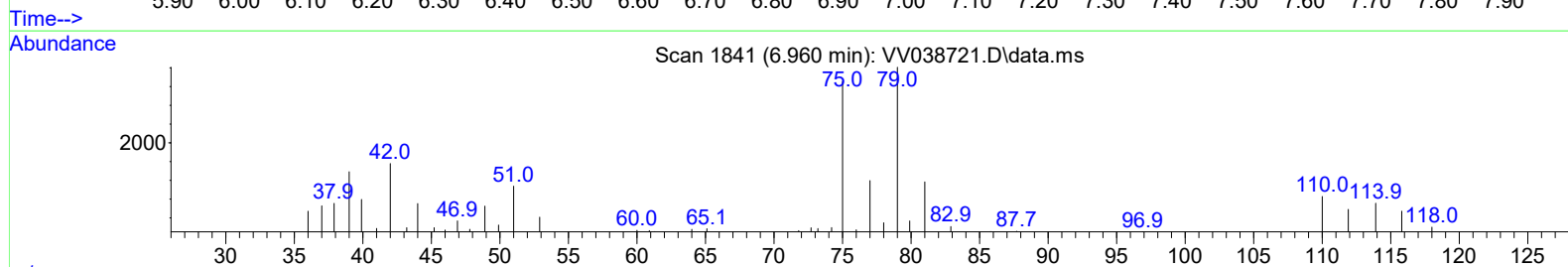
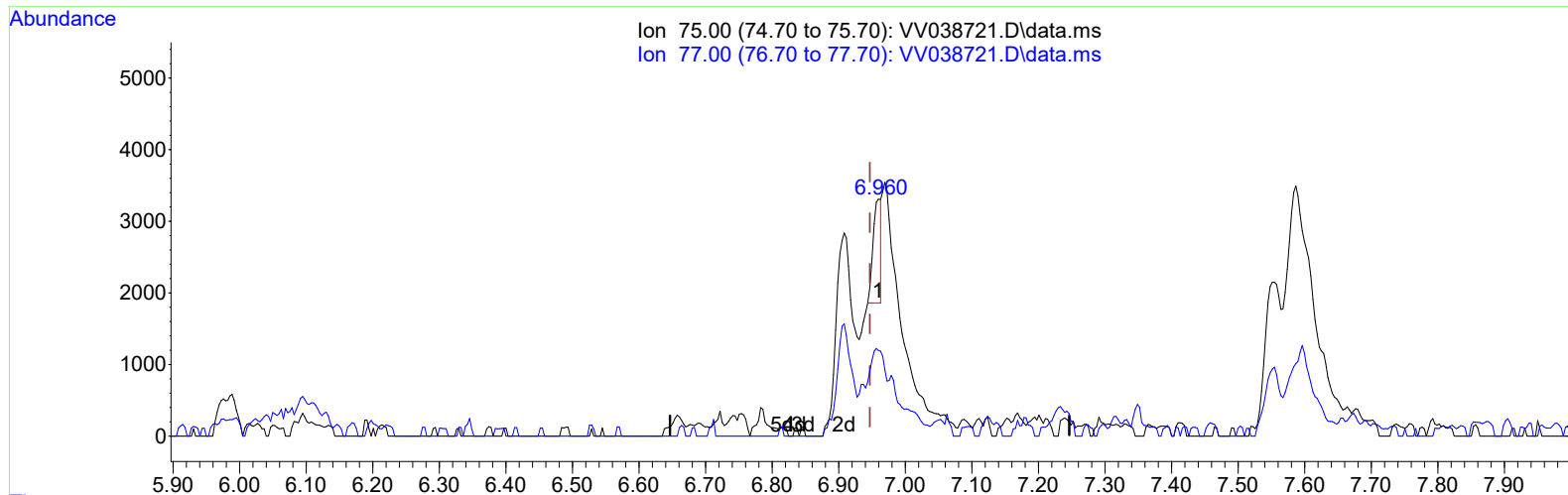
5.844min (+ 0.019) 2.37 ug/L m

response 7449

Ion	Exp%	Act%
95.00	100.00	100.00
97.00	65.20	59.60
132.00	96.60	80.17
130.00	101.20	99.72

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



(39) cis-1,3-Dichloropropene (T)

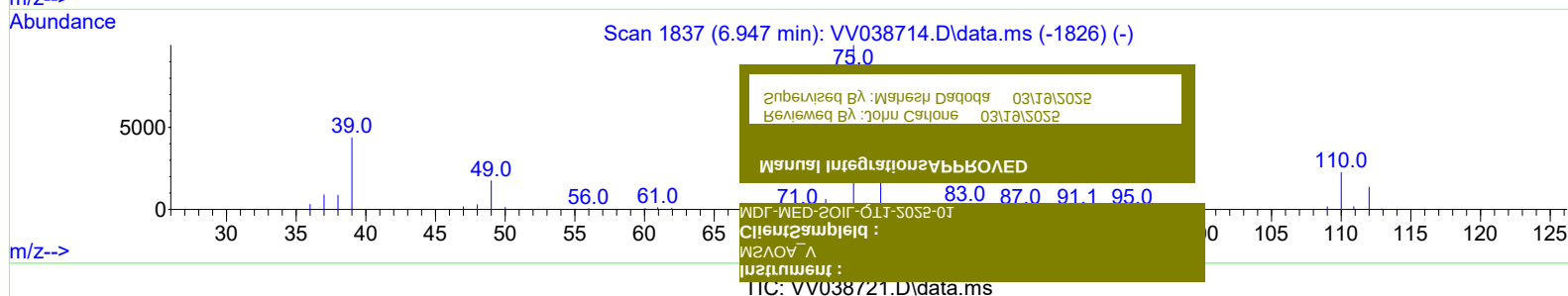
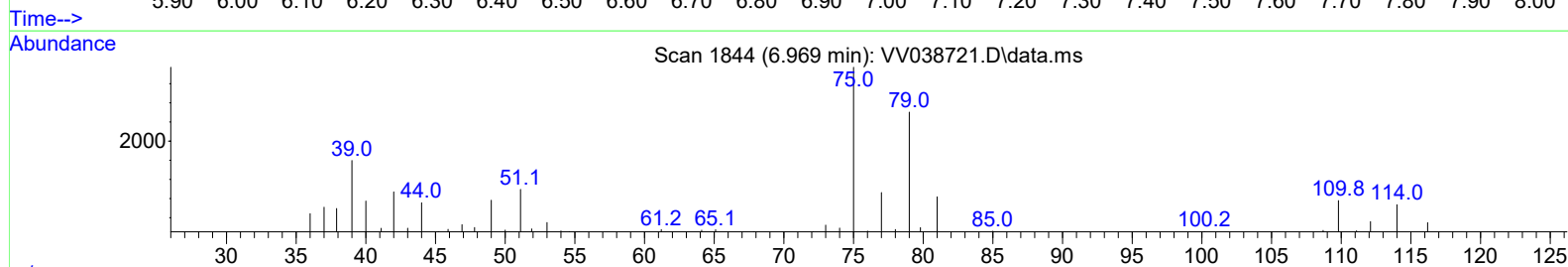
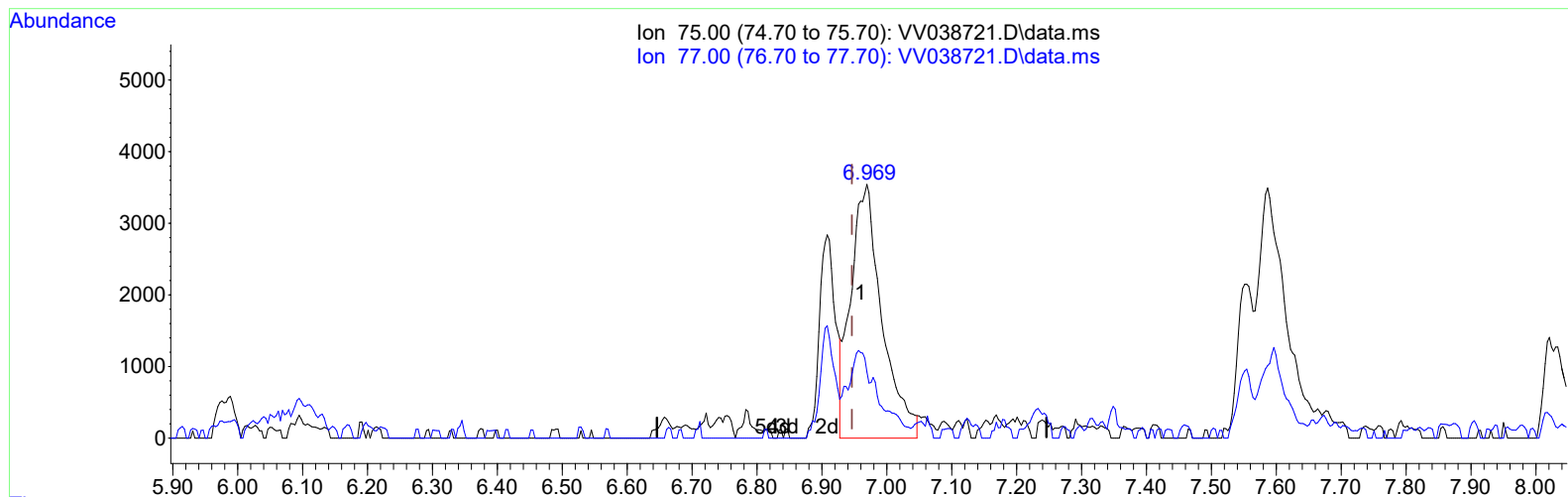
6.960min (+ 0.013) 0.25 ug/L

response 1204

Ion	Exp%	Act%
75.00	100.00	100.00
77.00	31.30	36.11
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



(39) cis-1,3-Dichloropropene (T)

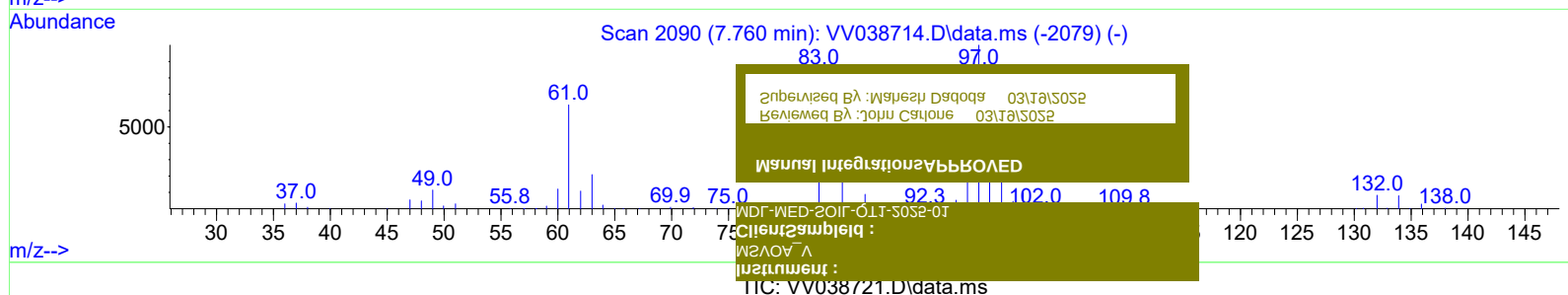
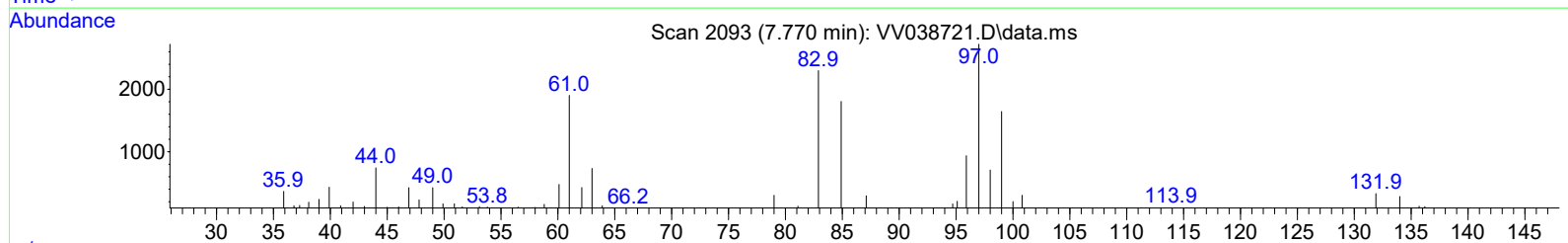
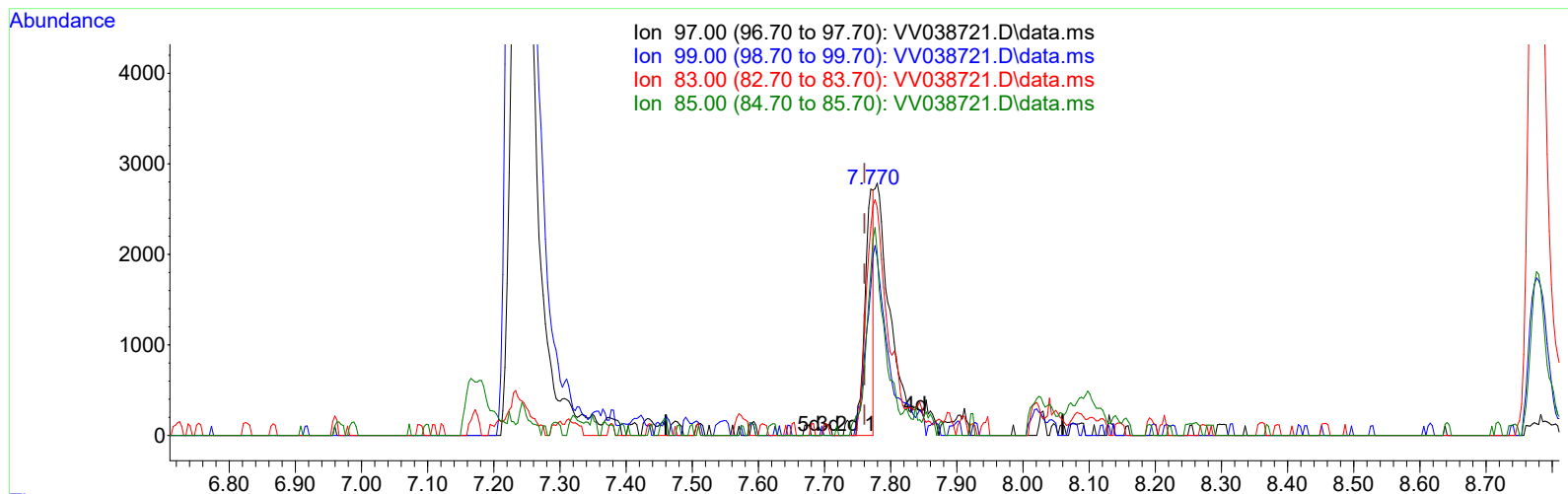
6.969min (+ 0.022) 2.44 ug/L m

response 11867

Ion	Exp%	Act%
75.00	100.00	100.00
77.00	31.30	26.11
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



(45) 1,1,2-Trichloroethane (T)

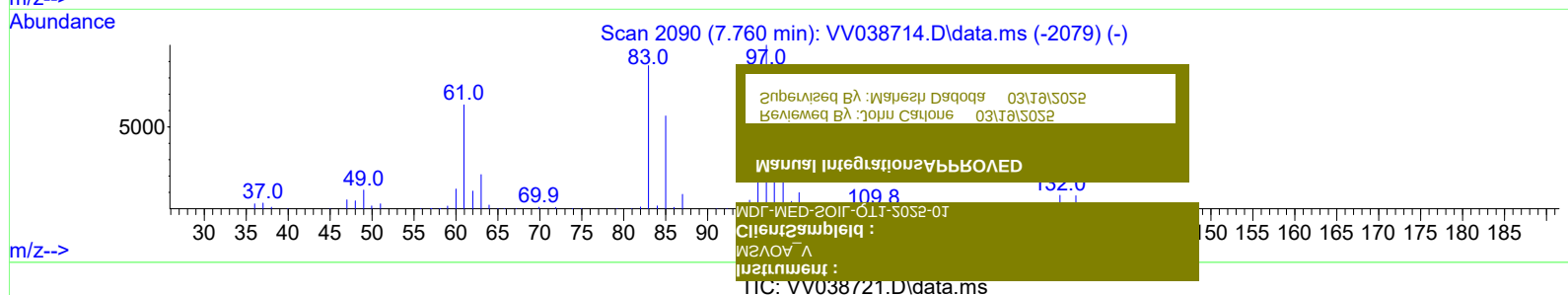
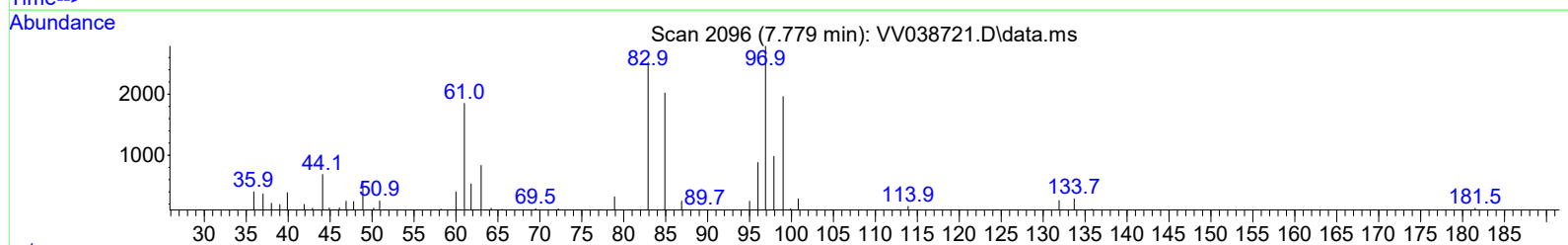
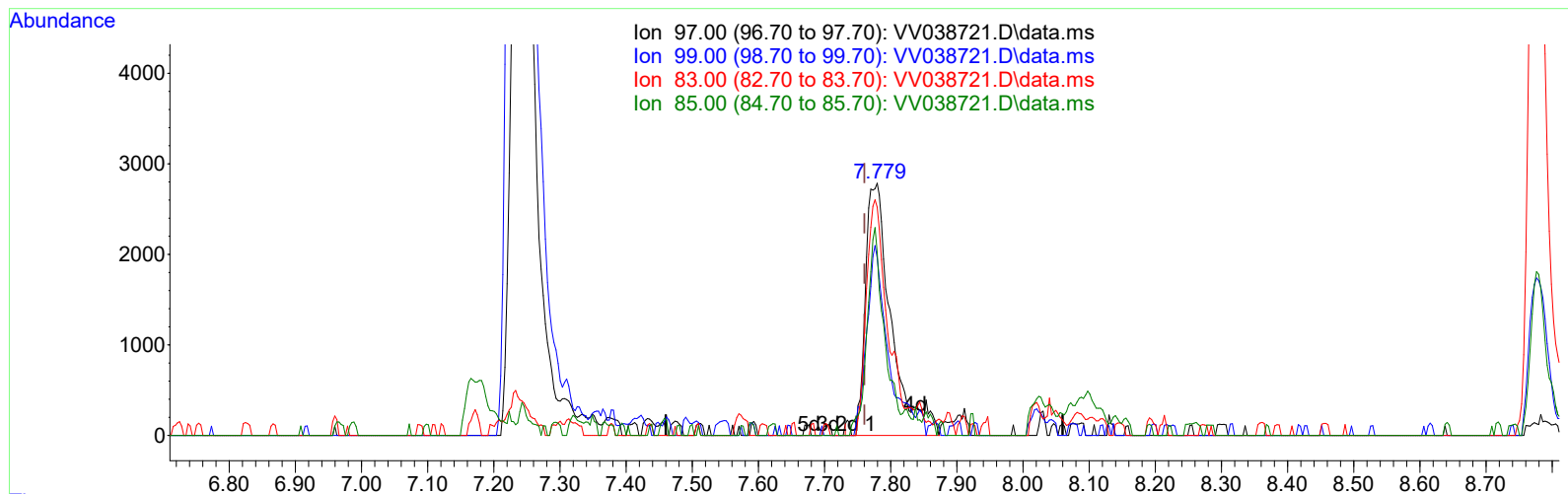
7.770min (+ 0.010) 0.76 ug/L

response 2446

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	62.30	60.42
83.00	86.50	84.49
85.00	54.30	66.37

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



(45) 1,1,2-Trichloroethane (T)

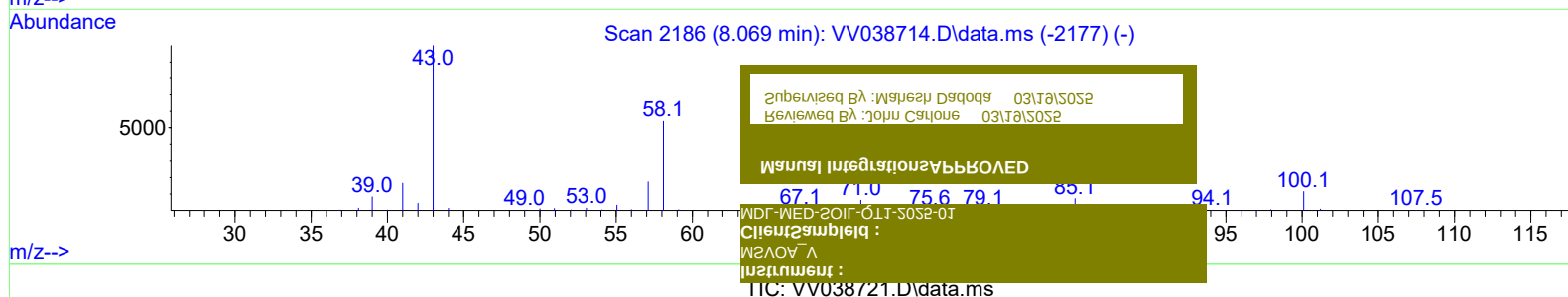
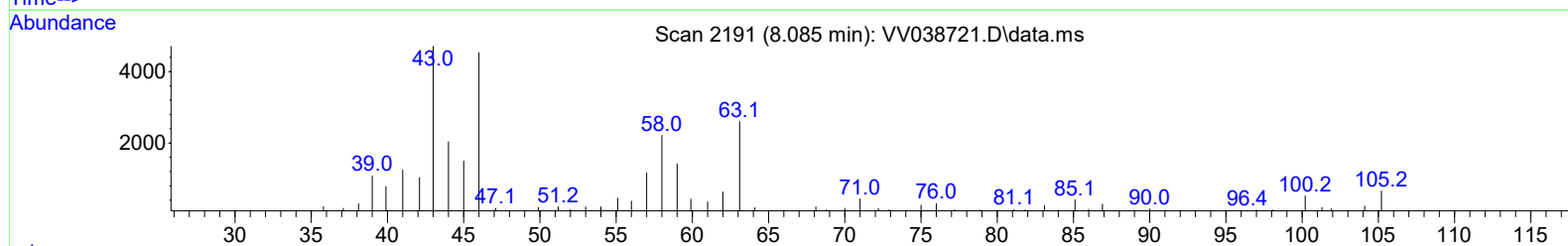
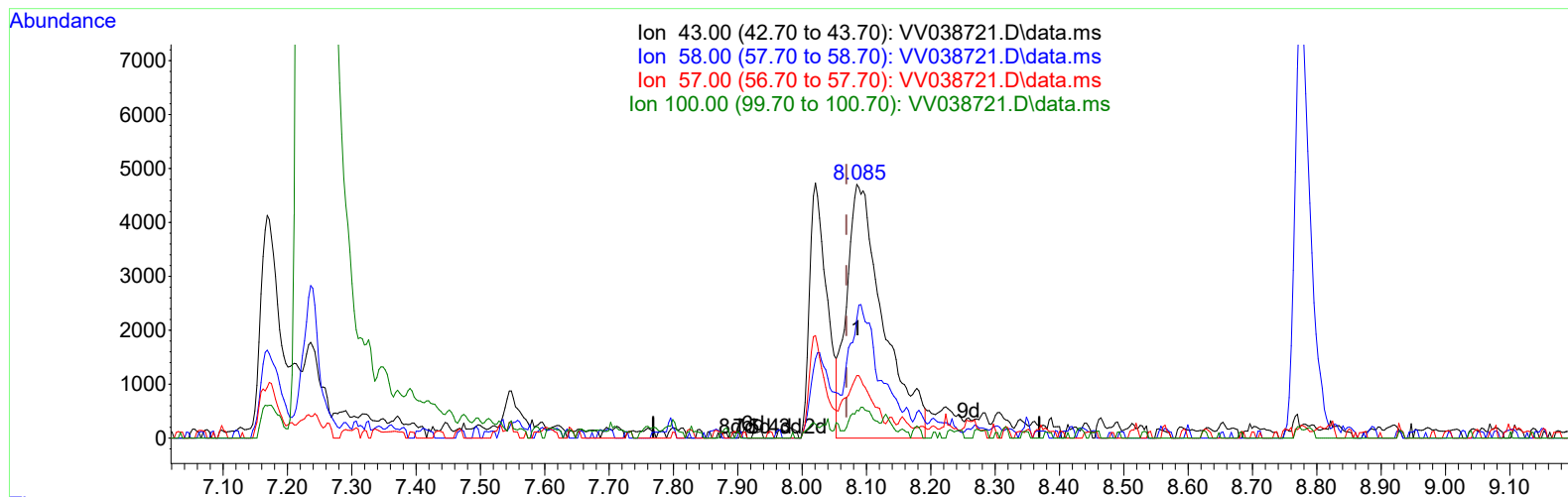
7.779min (+ 0.019) 2.36 ug/L m

response 7580

Ion	Exp%	Act%
97.00	100.00	100.00
99.00	62.30	70.39
83.00	86.50	90.49
85.00	54.30	72.47#

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
Data File : VV038721.D
Acq On : 17 Mar 2025 17:29
Operator : SY/MD
Sample : Q1546-05
Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
Quant Title : VOC Analysis
QLast Update : Mon Mar 17 15:08:07 2025
Response via : Initial Calibration



(48) 2-Hexanone (T)

8.085min (+ 0.016) 8.92 ug/L m

response 18683

Ion	Exp%	Act%
43.00	100.00	100.00
58.00	60.00	14.17#
57.00	19.40	14.77#
100.00	13.70	7.43#

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
 Data File : VV038721.D
 Acq On : 17 Mar 2025 17:29
 Operator : SY/MD
 Sample : Q1546-05
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 17 15:08:07 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	369471	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.776	117	384703	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	167570	50.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	175217	47.10	ug/L	0.00
Spiked Amount	50.000	Range 60 - 135	Recovery	=	94.20%	
7) Chloroethane-d5	1.529	69	149315	47.89	ug/L	0.00
Spiked Amount	50.000	Range 70 - 130	Recovery	=	95.78%	
11) 1,1-Dichloroethene-d2	2.053	65	77691	46.58	ug/L	0.00
Spiked Amount	50.000	Range 60 - 125	Recovery	=	93.16%	
21) 2-Butanone-d5	3.789	46	117903	87.99	ug/L	0.00
Spiked Amount	100.000	Range 40 - 130	Recovery	=	87.99%	
24) Chloroform-d	4.239	84	316690	47.10	ug/L	0.00
Spiked Amount	50.000	Range 70 - 125	Recovery	=	94.20%	
26) 1,2-Dichloroethane-d4	4.934	65	197167	50.40	ug/L	0.00
Spiked Amount	50.000	Range 70 - 125	Recovery	=	100.80%	
32) Benzene-d6	4.950	84	616685	50.63	ug/L	0.00
Spiked Amount	50.000	Range 70 - 125	Recovery	=	101.26%	
36) 1,2-Dichloropropane-d6	5.979	67	207350	52.71	ug/L	0.00
Spiked Amount	50.000	Range 70 - 120	Recovery	=	105.42%	
41) Toluene-d8	7.236	98	514941	48.66	ug/L	0.00
Spiked Amount	50.000	Range 80 - 120	Recovery	=	97.32%	
43) trans-1,3-Dichloroprop...	7.548	79	76955	47.48	ug/L	0.00
Spiked Amount	50.000	Range 60 - 125	Recovery	=	94.96%	
47) 2-Hexanone-d5	8.021	63	71025	87.29	ug/L	0.00
Spiked Amount	100.000	Range 45 - 130	Recovery	=	112.56%	
56) 1,1,2,2-Tetrachloroeth...	10.143	84	232404			
Spiked Amount	50.000	Range 65 - 120	Recovery	=	112.56%	
66) 1,2-Dichlorobenzene-d4	11.551	152	179999			
Spiked Amount	50.000	Range 80 - 120	Recovery	=	112.56%	
Target Compounds						
2) Dichlorodifluoromethane	1.108	85	5728			
3) Chloromethane	1.217	50	8876	2.38	ug/L	94
5) Vinyl chloride	1.281	62	8829	2.28	ug/L #	1
6) Bromomethane	1.484	94	4775	2.35	ug/L	85
8) Chloroethane	1.548	64	5773	2.34	ug/L	96
9) Trichlorofluoromethane	1.712	101	10927	2.22	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.066	101	8853	3.00	ug/L #	77
12) 1,1-Dichloroethene	2.063	96	7940	2.86	ug/L #	1
13) Acetone	2.114	43	5655	4.29	ug/L	100
14) Carbon disulfide	2.236	76	20089	2.33	ug/L	99
15) Methyl Acetate	2.387	43	5250m	1.99	ug/L	
17) trans-1,2-Dichloroethene	2.696	96	6384	2.19	ug/L	98
18) Methyl tert-butyl Ether	2.699	73	16491	2.01	ug/L	97
19) 1,1-Dichloroethane	3.111	63	13548	2.21	ug/L	96
20) cis-1,2-Dichloroethene	3.815	96	6610	2.07	ug/L	85
22) 2-Butanone	3.966	43	8986m	5.80	ug/L	
23) Bromochloromethane	4.159	128	3485	2.03	ug/L #	84
27) 1,2-Dichloroethane	5.056	62	9550m	2.16	ug/L	
29) Cyclohexane	4.571	56	9064	1.91	ug/L #	84

Submitted by: Mafresh Daboda 03/18/2025
 Reviewed by: John Catione 03/18/2025

Manual Integrations APPROVED

MDT-WED-2011-011-5052-01
 Client Sample ID :
 MSVOA_V
 Instrument :

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV031725\
 Data File : VV038721.D
 Acq On : 17 Mar 2025 17:29
 Operator : SY/MD
 Sample : Q1546-05
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 18 08:11:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM031724WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Mar 17 15:08:07 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
30) 1,1,1-Trichloroethane	4.510	97	11125	2.26	ug/L	92
31) Carbon tetrachloride	4.728	117	9116	2.15	ug/L	99
33) Benzene	5.008	78	25674	2.10	ug/L	100
34) Trichloroethene	5.844	95	7449m	2.37	ug/L	
35) Methylcyclohexane	6.043	83	9306	2.02	ug/L #	78
37) 1,2-Dichloropropane	6.095	63	6373	1.87	ug/L #	96
38) Bromodichloromethane	6.435	83	9644	2.15	ug/L	98
39) cis-1,3-Dichloropropene	6.969	75	11867m	2.44	ug/L	
40) 4-Methyl-2-pentanone	7.169	43	7544	2.50	ug/L #	87
42) Toluene	7.320	91	26894	2.16	ug/L	95
44) trans-1,3-Dichloropropene	7.587	75	9090	1.97	ug/L	94
45) 1,1,2-Trichloroethane	7.779	97	7580m	2.36	ug/L	
46) Tetrachloroethene	7.905	164	4926	2.21	ug/L	84
48) 2-Hexanone	8.085	43	18683m	8.92	ug/L	
49) Dibromochloromethane	8.175	129	7092	2.21	ug/L	98
50) 1,2-Dibromoethane	8.284	107	7095	2.27	ug/L #	94
51) Chlorobenzene	8.815	112	18993	2.23	ug/L	98
52) Ethylbenzene	8.947	91	24730	1.80	ug/L	99
53) m,p-Xylene	9.075	106	8411	1.68	ug/L	83
54) o-Xylene	9.477	106	8263	1.70	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.172	83	11480	2.40	ug/L #	95
59) Bromoform	9.670	173	3469	2.23	ug/L #	94
60) Isopropylbenzene	9.863	105	20919	1.98	ug/L #	96
61) 1,2,3-Trichloropropane	10.207	75	7474	2.67	ug/L	91
62) 1,3,5-Trimethylbenzene	10.474	105	16361	2.00	ug/L	97
63) 1,2,4-Trimethylbenzene	10.850	105	14946	1.80	ug/L	100
64) 1,3-Dichlorobenzene	11.117	146	11960	2.34	ug/L	99
65) 1,4-Dichlorobenzene	11.201	146	13709			
67) 1,2-Dichlorobenzene	11.570	146	14402			
68) 1,2-Dibromo-3-chloropr...	12.365	75	1617			
69) 1,3,5-Trichlorobenzene	12.580	180	8050			
70) 1,2,4-trichlorobenzene	13.200	180	5322	1.99	ug/L #	94
71) Naphthalene	13.445	128	12517			
72) 1,2,3-Trichlorobenzene	13.683	180	5482			

Subreviewed by : Marybeth DeBodas 03/18/2025
 Reviewed by : John Catione 03/18/2025

Manual Integrations APPROVED

MDT-WED-2011-011-2025-01
 Client Sample ID :
 MSVOA_V
 Instrument :

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