

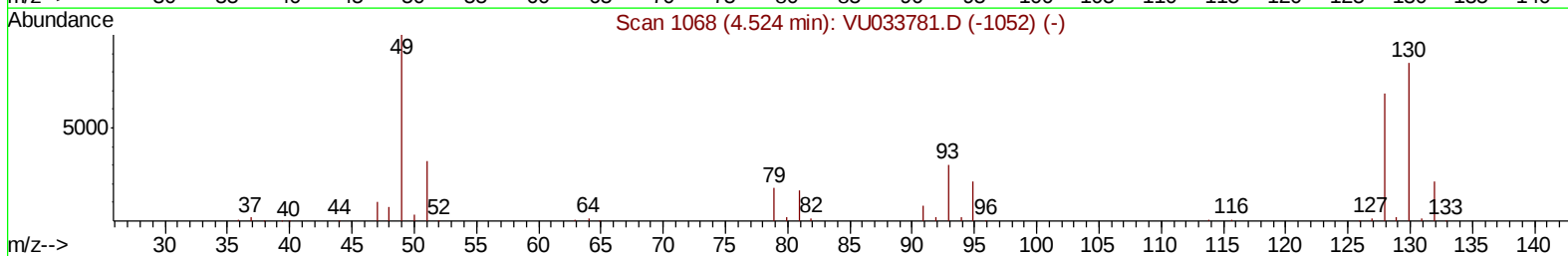
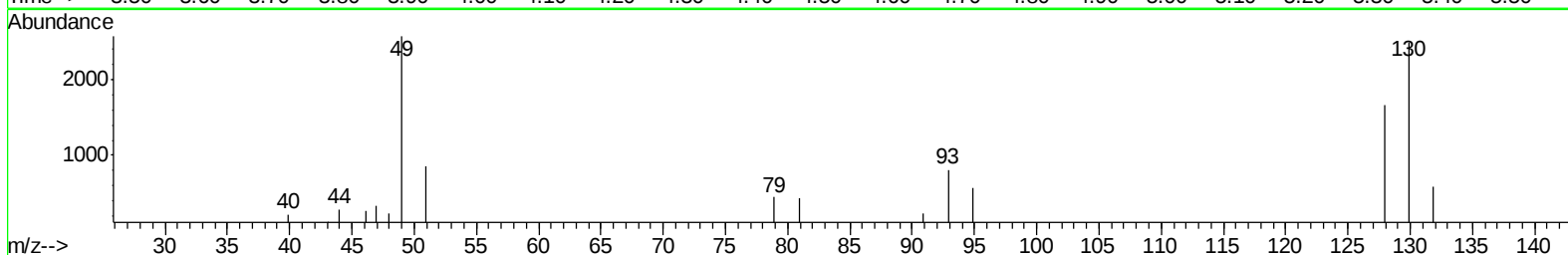
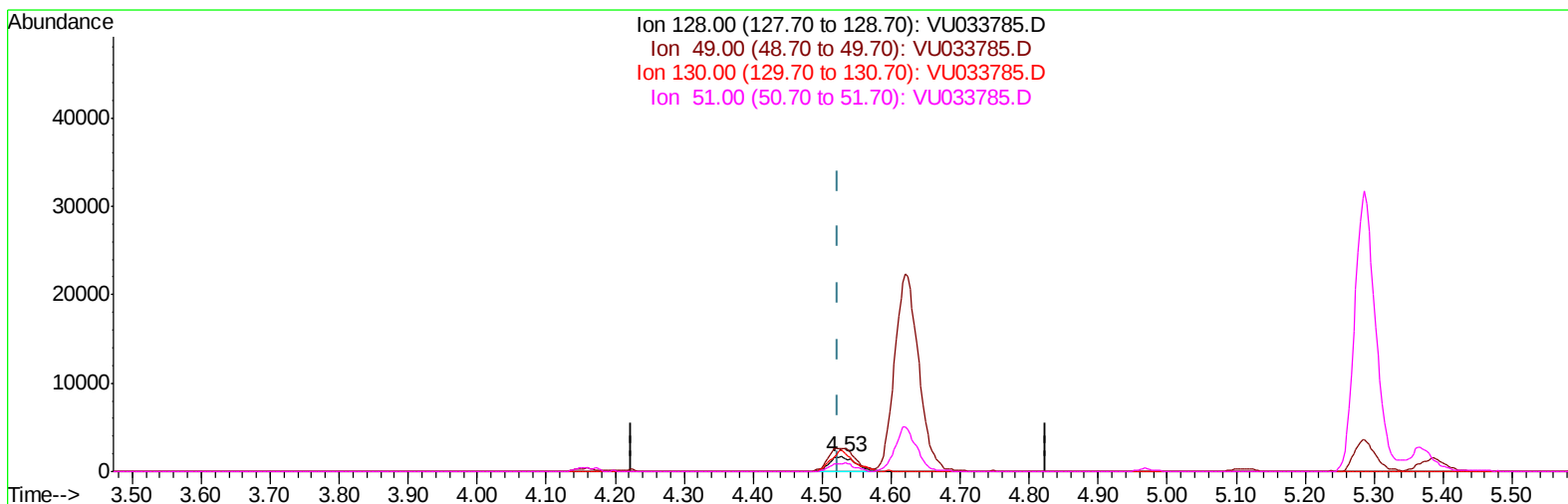
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081319\
Data File : VU033785.D
Acq On : 13 Aug 2019 16:46
Operator : JC/SP
Sample : MDL06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampled :
MDL06

Manual Integrations
APPROVED

MMDadoda
8/14/2019 10:44:43 AM

Quant Time: Aug 14 04:27:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
Quant Title : VOC Analysis
QLast Update : Wed Aug 14 04:23:45 2019
Response via : Initial Calibration



TIC: VU033785.D

(23) Bromochloromethane (T)

4.527min (+0.003) 2.67ug/L m

response 4433

Ion	Exp%	Act%
128.00	100	100
49.00	154.40	154.57
130.00	131.20	149.28
51.00	50.80	51.20

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081319\
 Data File : VU033785.D
 Acq On : 13 Aug 2019 16:46
 Operator : JC/SP
 Sample : MDL06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Manual Integrations
 APPROVED

MMDadoda
 8/14/2019 10:44:43 AM

Quant Time: Aug 14 04:39:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 14 04:23:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	404348	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	394453	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.47	152	187342	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	175689	45.75	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.50%
7) Chloroethane-d5	1.67	69	156504	43.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.52%
11) 1,1-Dichloroethene-d2	2.26	63	228818	36.48	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	72.96%
21) 2-Butanone-d5	4.15	46	219051	102.53	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	102.53%
24) Chloroform-d	4.62	84	280425	46.76	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.52%
26) 1,2-Dichloroethane-d4	5.29	65	182083	49.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.08%
32) Benzene-d6	5.32	84	572063	50.62	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.24%
36) 1,2-Dichloropropane-d6	6.31	67	183299	50.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	100.38%
41) Toluene-d8	7.55	98	513732	48.75	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	97.50%
43) trans-1,3-Dichloropropene-	7.83	79	84664	48.58	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.16%
47) 2-Hexanone-d5	8.30	63	150693	103.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	103.12%
56) 1,1,2,2-Tetrachloroethane-	10.41	84	250713	48.10	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	96.20%
66) 1,2-Dichlorobenzene-d4	11.84	152	194273	51.33	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.66%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	10549	2.617 ug/L	92
3) Chloromethane	1.32	50	10894	2.603 ug/L	100
5) Vinyl chloride	1.39	62	11744	2.592 ug/L #	65
6) Bromomethane	1.62	94	8371	2.517 ug/L	97
8) Chloroethane	1.69	64	7388	2.281 ug/L	95
9) Trichlorofluoromethane	1.87	101	14375	2.469 ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	9624	3.377 ug/L #	84
12) 1,1-Dichloroethene	2.27	96	8428	3.006 ug/L #	1
13) Acetone	2.32	43	10595	5.445 ug/L	96
14) Carbon disulfide	2.46	76	23109	2.603 ug/L	100
15) Methyl Acetate	2.61	43	8559	2.631 ug/L #	85
16) Methylene chloride	2.68	84	8706	2.720 ug/L	99
17) trans-1,2-Dichloroethene	2.96	96	7801	2.673 ug/L	90
18) Methyl tert-butyl Ether	2.98	73	20662	2.382 ug/L	97
19) 1,1-Dichloroethane	3.43	63	13657	2.436 ug/L	97
20) cis-1,2-Dichloroethene	4.20	96	8159	2.546 ug/L	94
22) 2-Butanone	4.27	43	10734m	4.541 ug/L	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081319\
 Data File : VU033785.D
 Acq On : 13 Aug 2019 16:46
 Operator : JC/SP
 Sample : MDL06
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL06

Manual Integrations
 APPROVED

MMDadoda
 8/14/2019 10:44:43 AM

Quant Time: Aug 14 04:39:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 14 04:23:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.53	128	4433m	2.670	ug/L	
25) Chloroform	4.65	83	18464	3.169	ug/L	99
27) 1,2-Dichloroethane	5.39	62	10760	2.377	ug/L	98
29) Cyclohexane	4.97	56	10665	2.460	ug/L	96
30) 1,1,1-Trichloroethane	4.89	97	12424	2.568	ug/L	98
31) Carbon tetrachloride	5.12	117	11288	2.627	ug/L	98
33) Benzene	5.37	78	31424	2.604	ug/L	100
34) Trichloroethene	6.17	95	8161	2.553	ug/L	94
35) Methylcyclohexane	6.40	83	11356	2.437	ug/L	98
37) 1,2-Dichloropropane	6.41	63	9069	2.758	ug/L	99
38) Bromodichloromethane	6.74	83	10539	2.484	ug/L	97
39) cis-1,3-Dichloropropene	7.25	75	11681	2.406	ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	18805	4.596	ug/L	99
42) Toluene	7.62	91	32805	2.574	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	10321	2.334	ug/L	100
45) 1,1,2-Trichloroethane	8.05	97	7494	2.415	ug/L	96
46) Tetrachloroethene	8.21	164	6110	2.437	ug/L	94
48) 2-Hexanone	8.35	43	22576	7.209	ug/L #	91
49) Dibromochloromethane	8.46	129	8745	2.524	ug/L	92
50) 1,2-Dibromoethane	8.57	107	8638	2.653	ug/L	93
51) Chlorobenzene	9.10	112	21931	2.644	ug/L	90
52) Ethylbenzene	9.23	91	32762	2.443	ug/L	96
53) m,p-Xylene	9.36	106	11646	2.323	ug/L	95
54) o-xylene	9.76	106	11479	2.327	ug/L	96
55) Styrene	9.78	104	16520	1.973	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.44	83	14214	2.738	ug/L #	96
59) Bromoform	9.94	173	6295	2.630	ug/L #	98
60) 1,2,3-Trichloropropane	10.48	75	10467	2.777	ug/L	97
61) Isopropylbenzene	10.15	105	27398	2.362	ug/L	97
62) 1,3,5-Trimethylbenzene	10.76	105	21329	2.278	ug/L	96
63) 1,2,4-Trimethylbenzene	11.13	105	19994	2.152	ug/L	99
64) 1,3-Dichlorobenzene	11.40	146	15468	2.658	ug/L	98
65) 1,4-Dichlorobenzene	11.49	146	17234	2.890	ug/L	97
67) 1,2-Dichlorobenzene	11.86	146	17205	2.910	ug/L	90
68) 1,2-Dibromo-3-chloropropan	12.65	75	2677	2.546	ug/L	91
69) 1,3,5-Trichlorobenzene	12.88	180	11591	2.637	ug/L	93
70) 1,2,4-trichlorobenzene	13.49	180	8211	2.253	ug/L	97
71) Naphthalene	13.74	128	16574	1.528	ug/L	97
72) 1,2,3-Trichlorobenzene	13.98	180	9258	2.423	ug/L	89

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

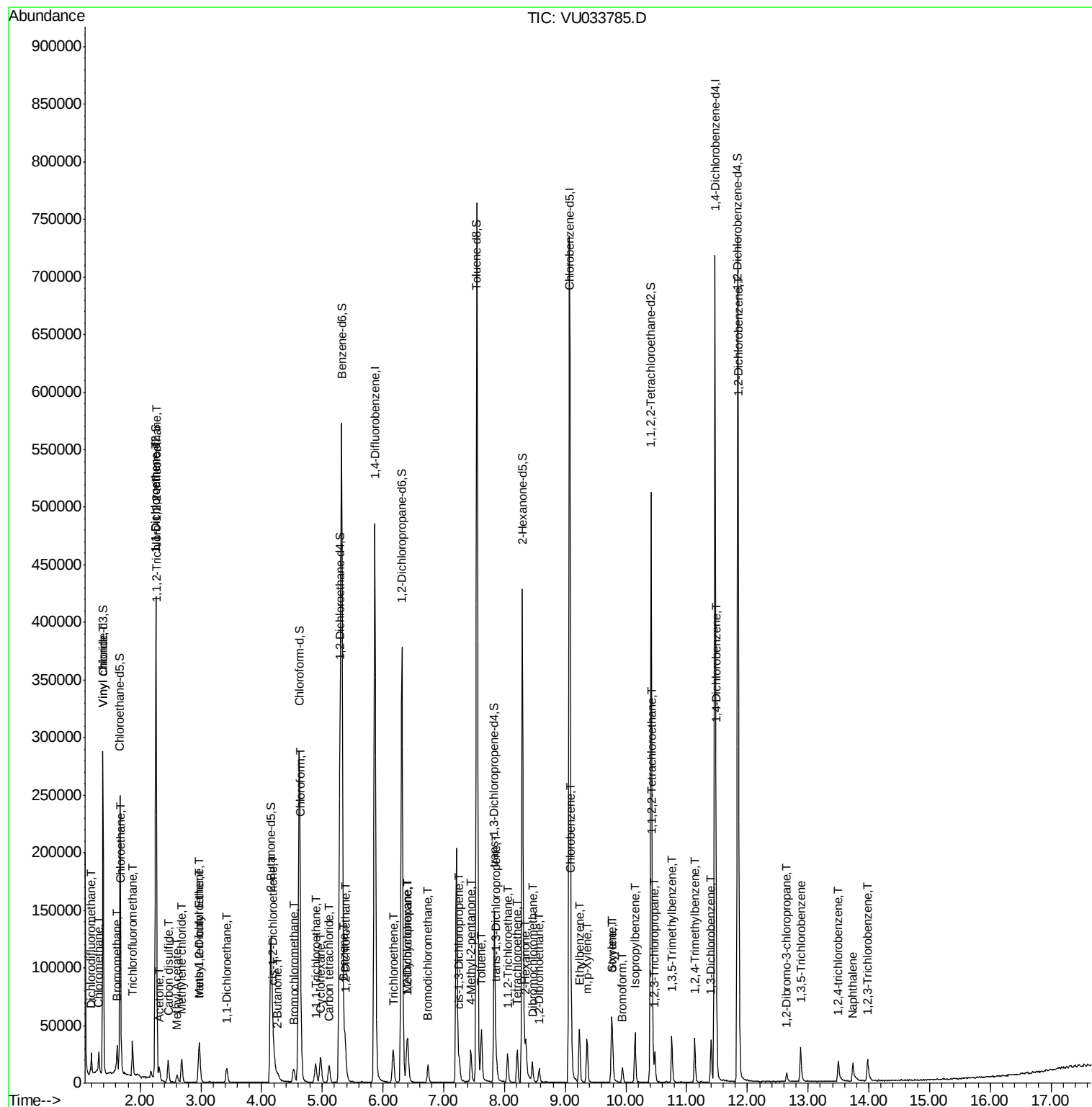
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081319\
Data File : VU033785.D
Acq On : 13 Aug 2019 16:46
Operator : JC/SP
Sample : MDL06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampled :
MDL06

Manual Integrations
APPROVED

MMDadoda
8/14/2019 10:44:43 AM

Quant Time: Aug 14 04:39:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
Quant Title : VOC Analysis
QLast Update : Wed Aug 14 04:23:45 2019
Response via : Initial Calibration



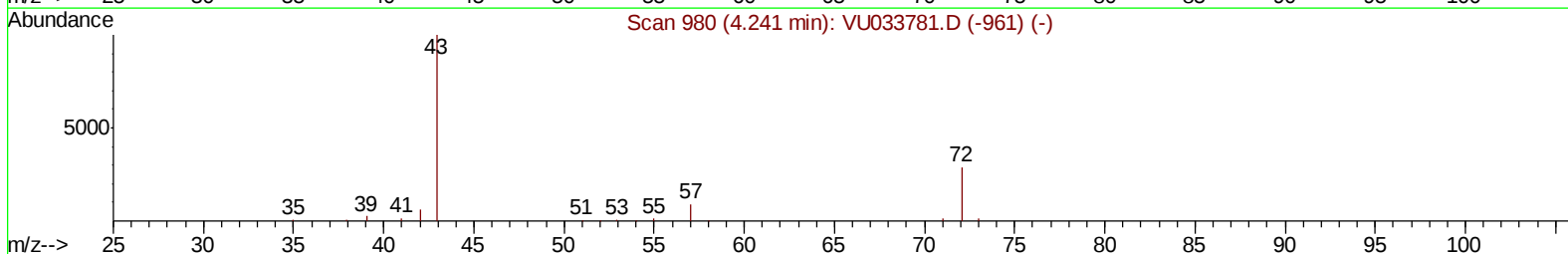
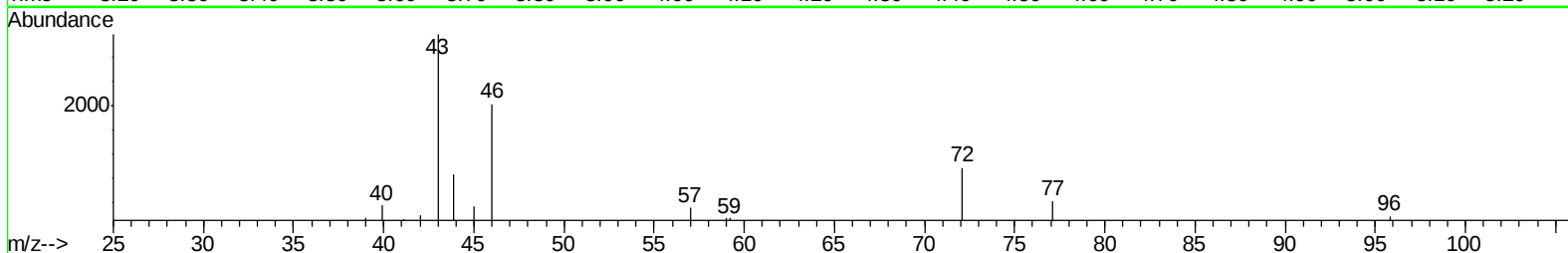
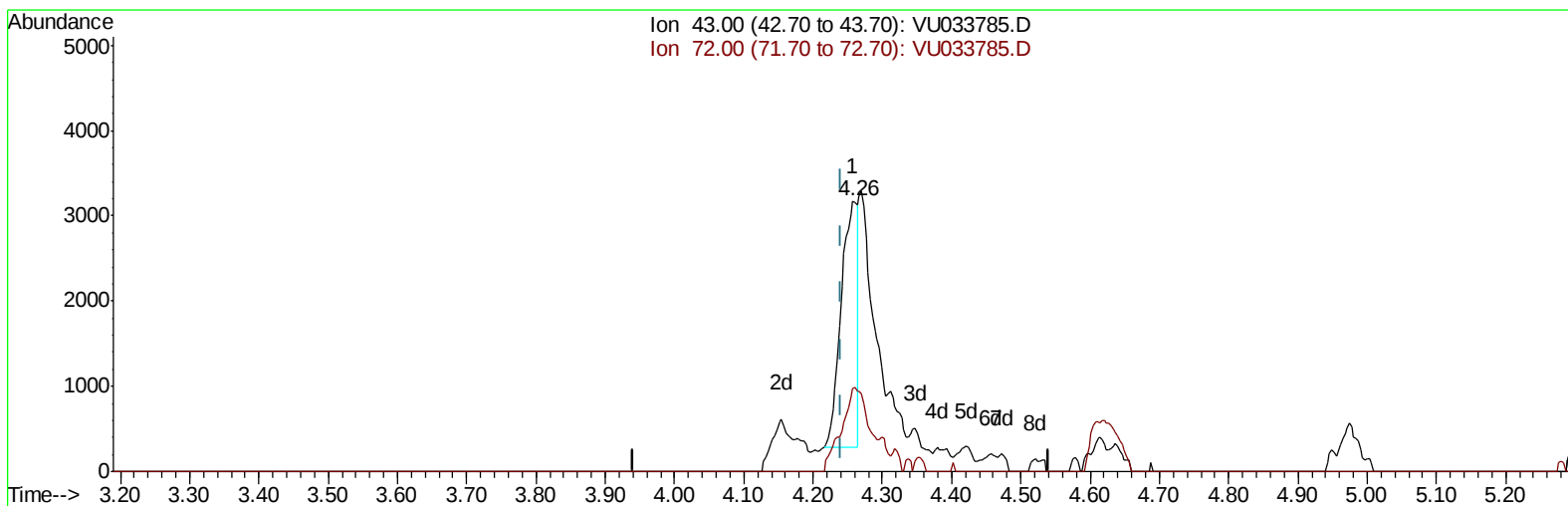
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081319\
Data File : VU033785.D
Acq On : 13 Aug 2019 16:46
Operator : JC/SP
Sample : MDL06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations
APPROVED

MMDadoda
8/14/2019 10:44:43 AM

Quant Time: Aug 14 04:27:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
Quant Title : VOC Analysis
QLast Update : Wed Aug 14 04:23:45 2019
Response via : Initial Calibration



TIC: VU033785.D

(22) 2-Butanone (T)
4.257min (+0.016) 2.00ug/L
response 4736

Ion	Exp%	Act%
43.00	100	100
72.00	29.00	56.10#
0.00	0.00	0.00
0.00	0.00	0.00

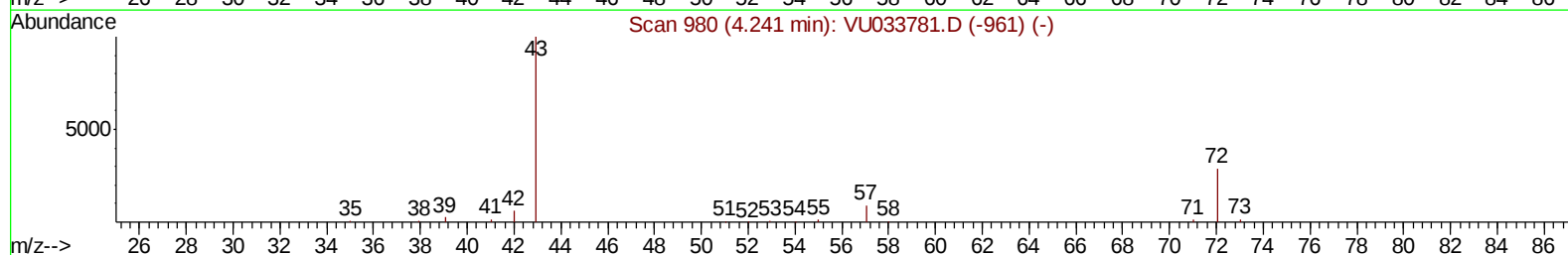
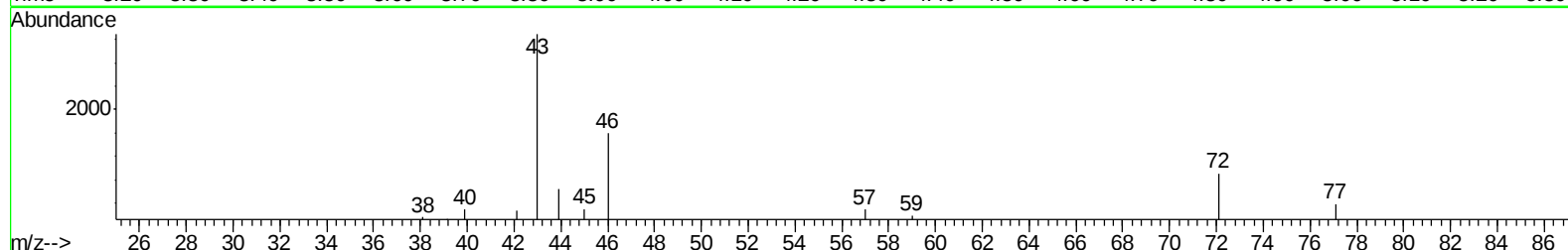
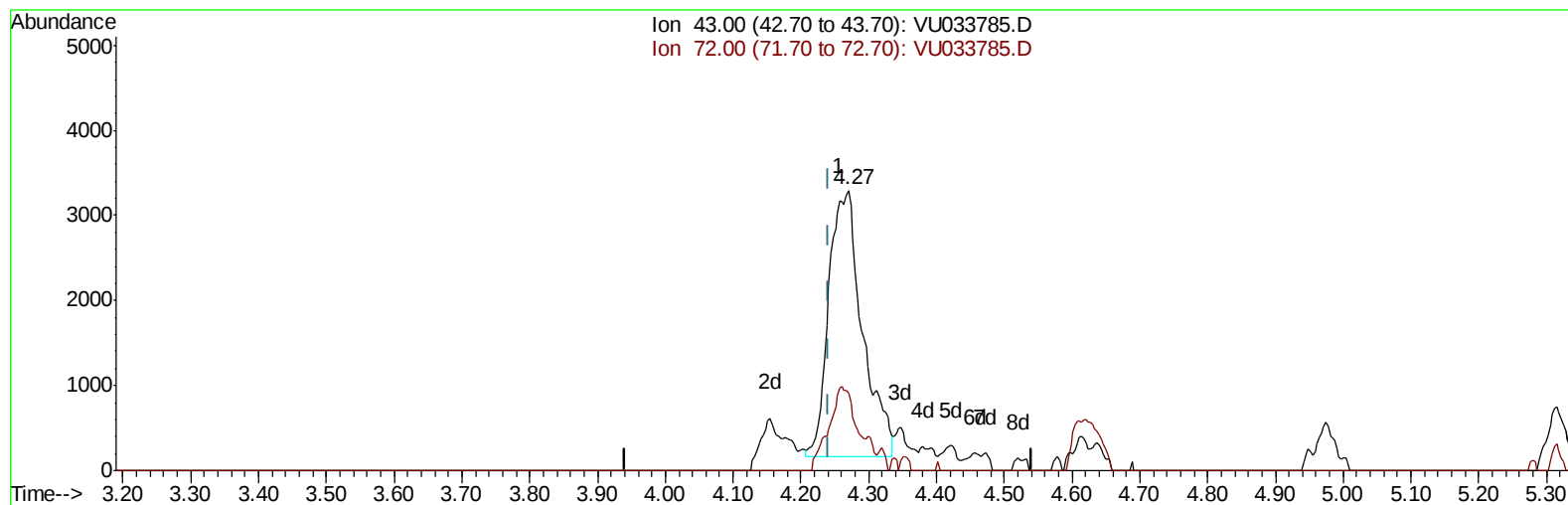
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU081319\
Data File : VU033785.D
Acq On : 13 Aug 2019 16:46
Operator : JC/SP
Sample : MDL06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
MDL06

Manual Integrations
APPROVED

MMDadoda
8/14/2019 10:44:43 AM

Quant Time: Aug 14 04:27:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
Quant Title : VOC Analysis
QLast Update : Wed Aug 14 04:23:45 2019
Response via : Initial Calibration



TIC: VU033785.D

(22) 2-Butanone (T)

4.270min (+0.029) 4.54ug/L m

response 10734

Ion	Exp%	Act%
43.00	100	100
72.00	29.00	24.75
0.00	0.00	0.00
0.00	0.00	0.00

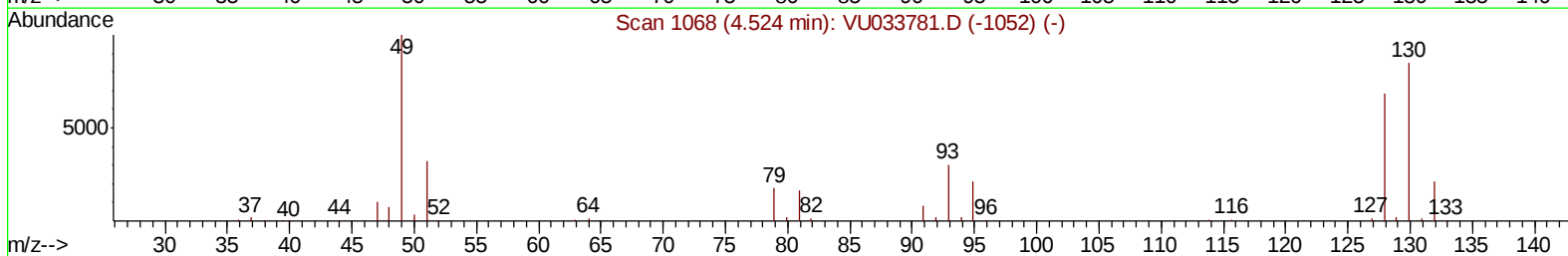
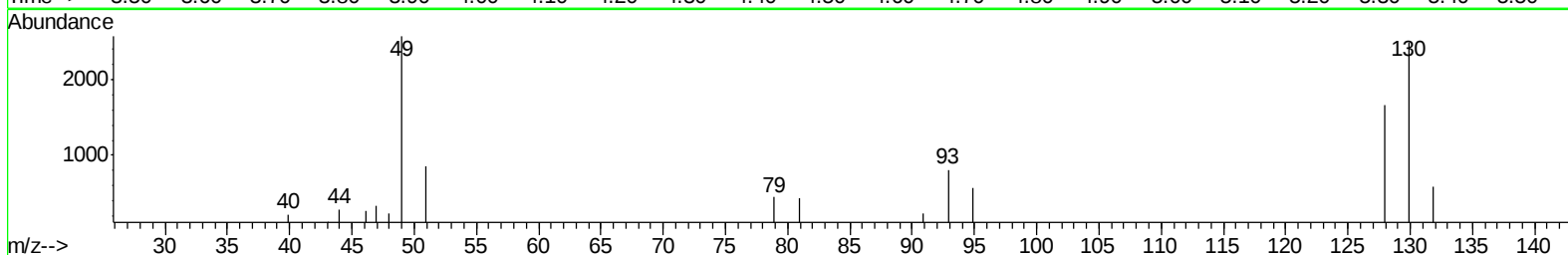
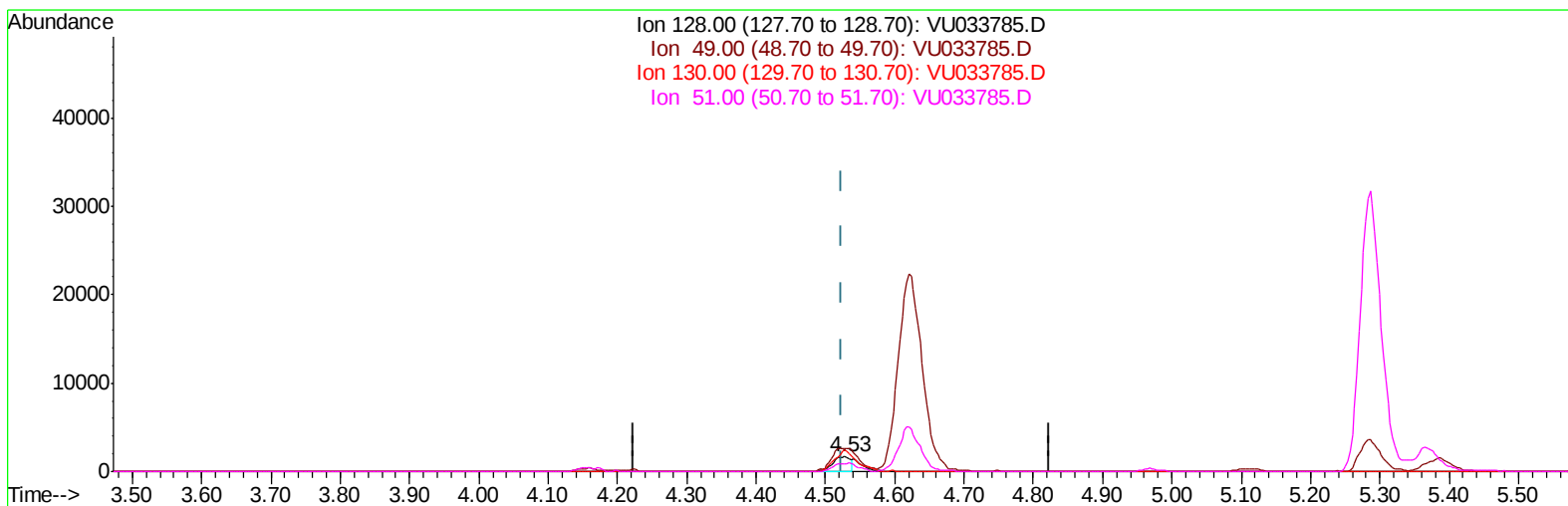
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_U\DATA\VU081319\
Data File : VU033785.D
Acq On : 13 Aug 2019 16:46
Operator : JC/SP
Sample : MDL06
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampled :
MDL06

Manual Integrations
APPROVED

MMDadoda
8/14/2019 10:44:43 AM

Quant Time: Aug 14 04:27:13 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SFAMULM081319W.M
Quant Title : VOC Analysis
QLast Update : Wed Aug 14 04:23:45 2019
Response via : Initial Calibration



TIC: VU033785.D

(23) Bromochloromethane (T)

4.527min (+0.003) 1.80ug/L

response 2986

Ion	Exp%	Act%
128.00	100	100
49.00	154.40	154.57
130.00	131.20	149.28
51.00	50.80	51.20