

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020823\
 Data File : VU053005.D
 Acq On : 08 Feb 2023 17:35
 Operator : JC/MD
 Sample : 01378-06
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT1-2023-02

Quant Time: Feb 09 03:45:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM020823WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Feb 09 01:09:47 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/09/2023
 Supervised By : Mahesh Dadoda 02/09/2023

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

Internal Standards						
1) 1,4-Difluorobenzene	6.244	114	319987	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.411	117	300431	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	155823	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.598	65	134728	45.319	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	90.640%		
7) Chloroethane-d5	1.913	69	112271	46.686	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.380%		
11) 1,1-Dichloroethene-d2	2.563	63	163517m	35.894	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	71.780%		
21) 2-Butanone-d5	4.627	46	116196	100.774	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	100.770%		
24) Chloroform-d	5.058	84	226044	45.986	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	91.980%		
26) 1,2-Dichloroethane-d4	5.698	65	139871	47.608	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	95.220%		
32) Benzene-d6	5.723	84	476092	47.764	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	95.520%		
36) 1,2-Dichloropropane-d6	6.685	67	145639	47.357	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	94.720%		
41) Toluene-d8	7.894	98	457746	46.869	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	93.740%		
43) trans-1,3-Dichloroprop...	8.173	79	80643	47.846	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	95.700%		
47) 2-Hexanone-d5	8.630	63	97946	104.878	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	104.880%		
56) 1,1,2,2-Tetrachloroeth...	10.752	84	206825	48.580	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	97.160%		
66) 1,2-Dichlorobenzene-d4	12.189	152	172087	49.623	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	99.240%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	4698	1.867	ug/L #	85
3) Chloromethane	1.518	50	5608	2.417	ug/L	98
5) Vinyl chloride	1.601	62	6571	2.300	ug/L #	52
6) Bromomethane	1.859	94	4271	2.166	ug/L	86
8) Chloroethane	1.933	64	4334	2.475	ug/L	92
9) Trichlorofluoromethane	2.135	101	9886	2.261	ug/L	92
10) 1,1,2-Trichloro-1,2,2-...	2.576	101	6636	3.012	ug/L #	85
12) 1,1-Dichloroethene	2.576	96	5897	2.809	ug/L #	1
13) Acetone	2.643	43	3092	2.964	ug/L	76
14) Carbon disulfide	2.791	76	14220	2.277	ug/L	99
15) Methyl Acetate	2.955	43	3489	2.309	ug/L	90
16) Methylene chloride	3.042	84	6265	2.473	ug/L	93
17) trans-1,2-Dichloroethene	3.354	96	5346	2.381	ug/L	87
18) Methyl tert-butyl Ether	3.357	73	15438	2.210	ug/L #	91
19) 1,1-Dichloroethane	3.865	63	8126	2.112	ug/L #	87
20) cis-1,2-Dichloroethene	4.662	96	5871	2.318	ug/L #	84
22) 2-Butanone	4.714	43	6427m	5.234	ug/L	
23) Bromochloromethane	4.971	128	3470	2.540	ug/L	86
25) Chloroform	5.087	83	10847	2.521	ug/L	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.794	62	7167	2.331	ug/L #	67
29) Cyclohexane	5.383	56	7443	2.108	ug/L	92
30) 1,1,1-Trichloroethane	5.312	97	8851	2.292	ug/L	98
31) Carbon tetrachloride	5.521	117	7701	2.274	ug/L	96
33) Benzene	5.772	78	20568	2.233	ug/L	100
34) Trichloroethene	6.543	95	6111	2.440	ug/L	94
35) Methylcyclohexane	6.759	83	9549	2.245	ug/L	94
37) 1,2-Dichloropropane	6.788	63	5331	2.283	ug/L #	96
38) Bromodichloromethane	7.106	83	7755	2.298	ug/L	94
39) cis-1,3-Dichloropropene	7.604	75	8742	2.178	ug/L	92
40) 4-Methyl-2-pentanone	7.791	43	10737	4.748	ug/L	94
42) Toluene	7.968	91	22817	2.186	ug/L	94
44) trans-1,3-Dichloropropene	8.209	75	8723	2.242	ug/L	88
45) 1,1,2-Trichloroethane	8.395	97	5096	2.119	ug/L	93
46) Tetrachloroethene	8.550	164	4557	2.297	ug/L	96
48) 2-Hexanone	8.681	43	11794	6.542	ug/L	95
49) Dibromochloromethane	8.807	129	6678	2.298	ug/L	98
50) 1,2-Dibromoethane	8.919	107	5906	2.244	ug/L #	91
51) Chlorobenzene	9.444	112	15577	2.320	ug/L	99
52) Ethylbenzene	9.566	91	24503	2.135	ug/L	96
53) m,p-Xylene	9.691	106	9816	2.163	ug/L	95
54) o-xylene	10.096	106	10035	2.239	ug/L	99
55) Styrene	10.112	104	15811	2.091	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.778	83	9456	2.521	ug/L	97
59) Bromoform	10.289	173	4924	2.418	ug/L	95
60) 1,2,3-Trichloropropane	10.820	75	6588	2.577	ug/L #	90
61) Isopropylbenzene	10.479	105	24087	2.249	ug/L	99
62) 1,3,5-Trimethylbenzene	11.083	105	21031	2.230	ug/L	94
63) 1,2,4-Trimethylbenzene	11.463	105	21736	2.366	ug/L	96
64) 1,3-Dichlorobenzene	11.742	146	11091	2.295	ug/L	93
65) 1,4-Dichlorobenzene	11.832	146	11623	2.391	ug/L	95
67) 1,2-Dichlorobenzene	12.209	146	11675	2.406	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.996	75	1973	2.538	ug/L	91
69) 1,3,5-Trichlorobenzene	13.218	180	8339	2.227	ug/L	96
70) 1,2,4-trichlorobenzene	13.839	180	8567	2.560	ug/L	94
71) Naphthalene	14.086	128	23801	2.400	ug/L	99
72) 1,2,3-Trichlorobenzene	14.328	180	8014	2.444	ug/L	95

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

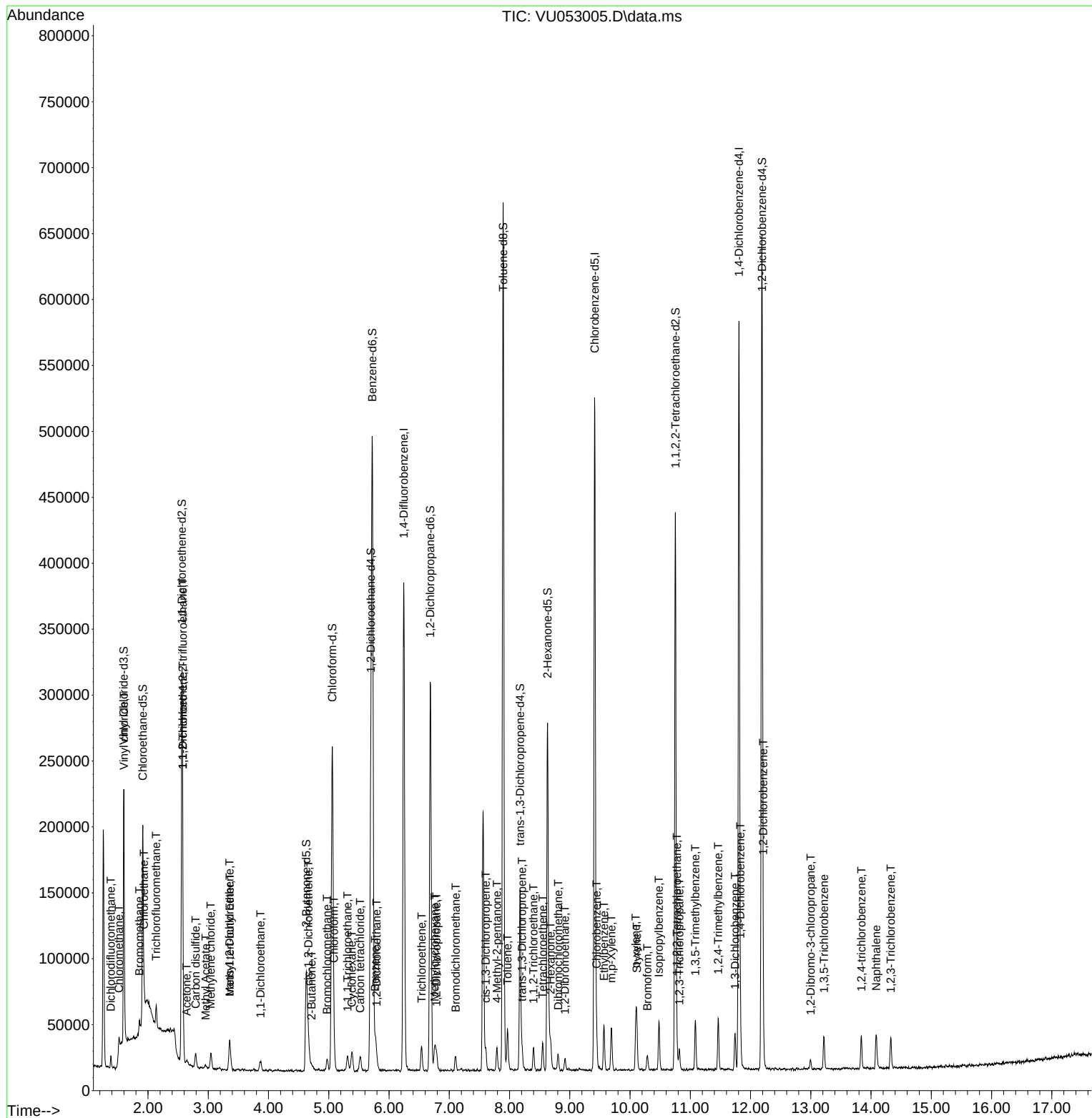
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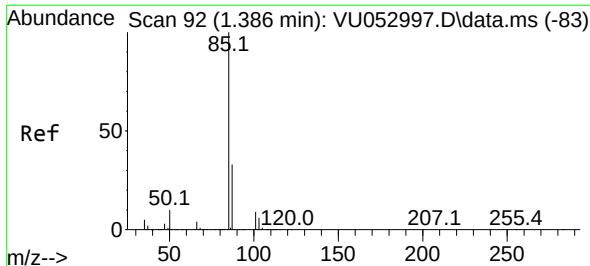
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MSVOA_U
ClientSampleId :
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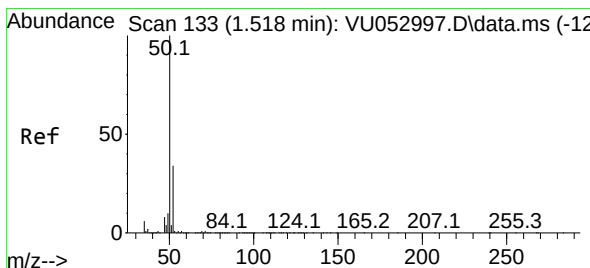
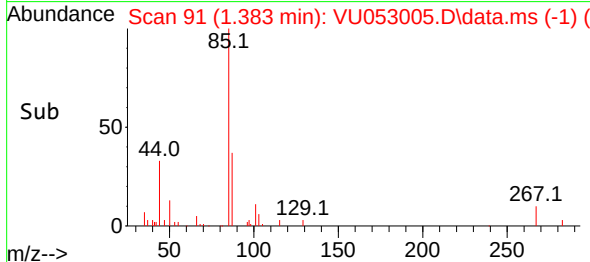
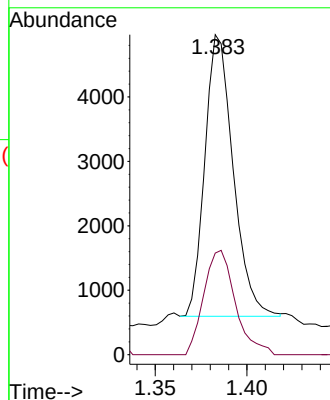
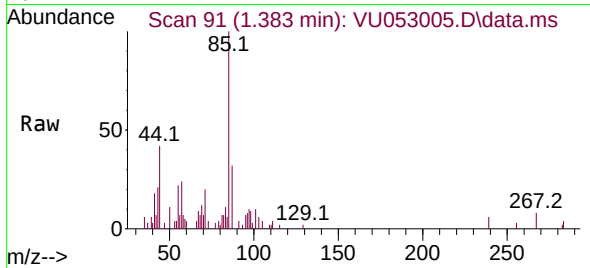
#2
 Dichlorodifluoromethane
 Concen: 1.867 ug/L
 RT: 1.383 min Scan# 91
 Delta R.T. -0.003 min
 Lab File: VU053005.D
 Acq: 08 Feb 2023 17:35

Instrument : MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 85 Resp: 4698
 Ion Ratio Lower Upper
 85 100
 87 41.3 26.4 39.6

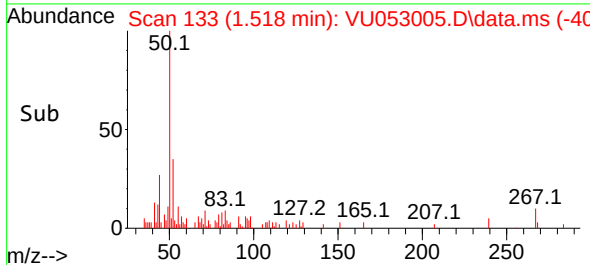
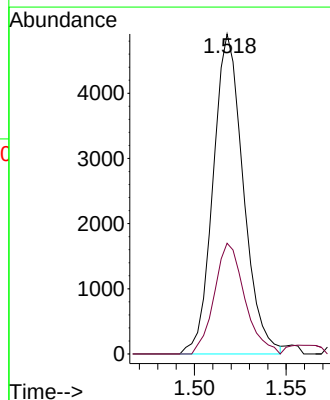
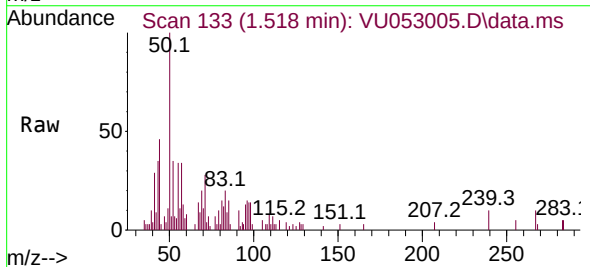
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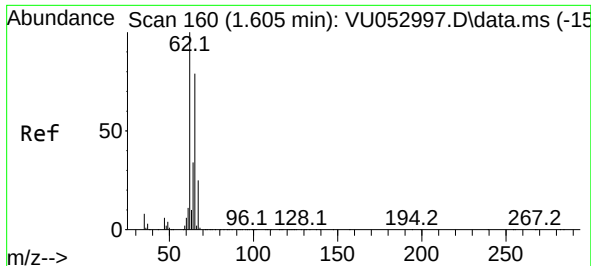
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#3
 Chloromethane
 Concen: 2.417 ug/L
 RT: 1.518 min Scan# 133
 Delta R.T. -0.000 min
 Lab File: VU053005.D
 Acq: 08 Feb 2023 17:35

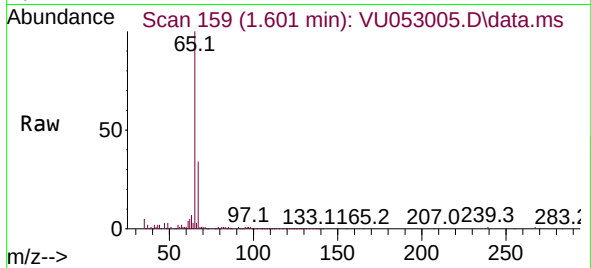
Tgt Ion: 50 Resp: 5608
 Ion Ratio Lower Upper
 50 100
 52 34.6 23.4 43.4





#5
 Vinyl chloride
 Concen: 2.300 ug/L
 RT: 1.601 min Scan# 11
 Delta R.T. -0.003 min
 Lab File: VU053005.D
 Acq: 08 Feb 2023 17:35

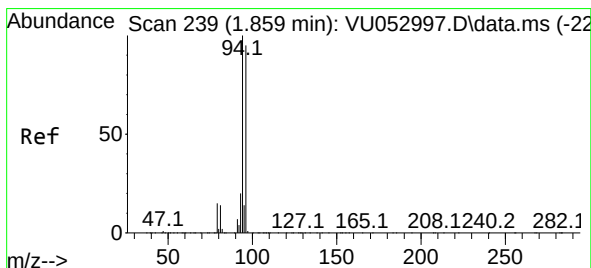
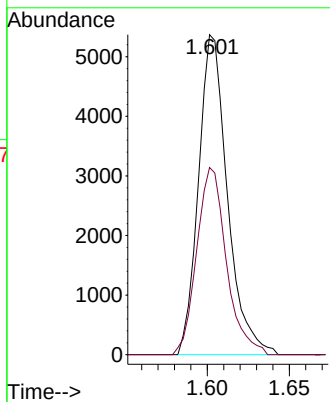
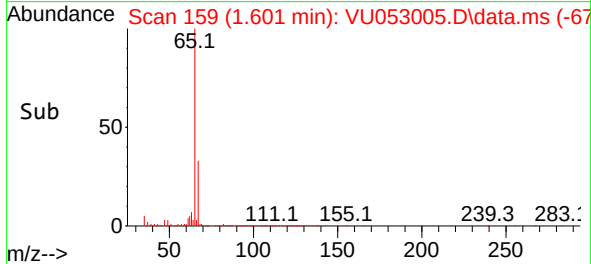
Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT1-2023-02



Tgt Ion: 62 Resp: 657
 Ion Ratio Lower Upper
 62 100
 64 58.5 22.4 41.6

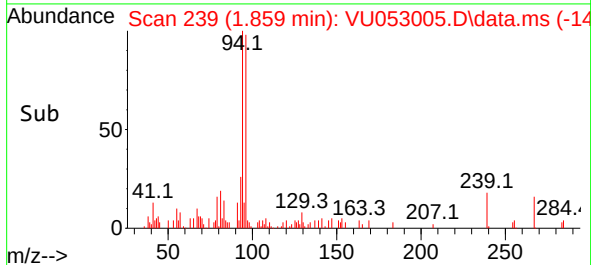
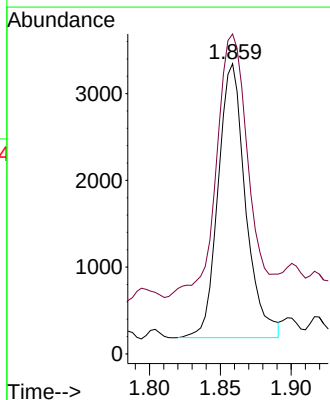
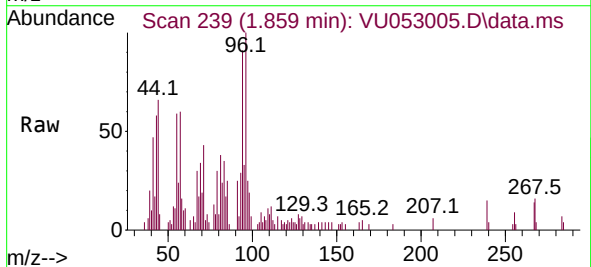
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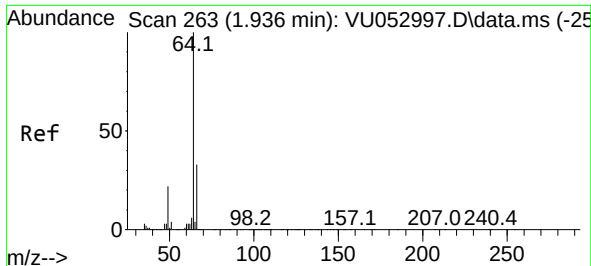
Reviewed By :John Carlone 02/09/2023
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#6
 Bromomethane
 Concen: 2.166 ug/L
 RT: 1.859 min Scan# 239
 Delta R.T. -0.000 min
 Lab File: VU053005.D
 Acq: 08 Feb 2023 17:35

Tgt Ion: 94 Resp: 4271
 Ion Ratio Lower Upper
 94 100
 96 110.3 67.8 125.8





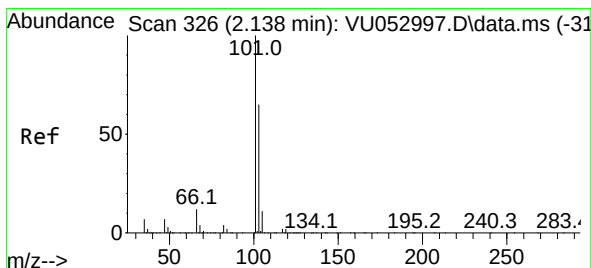
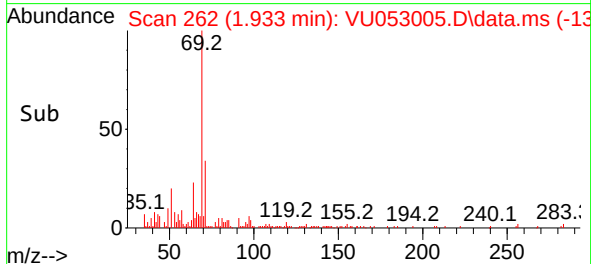
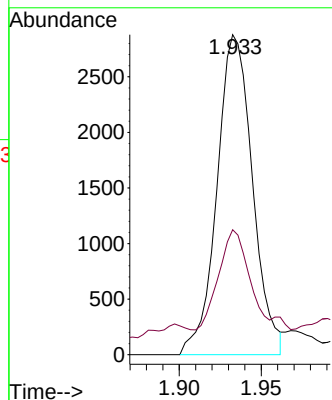
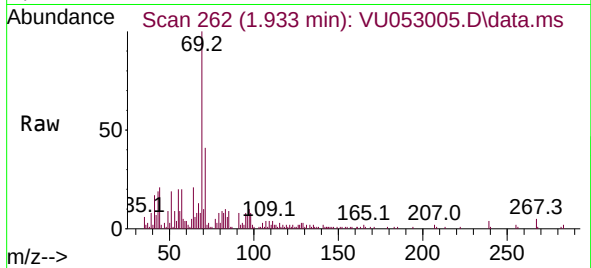
#8
Chloroethane
Concen: 2.475 ug/L
RT: 1.933 min Scan# 20
Delta R.T. -0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument :
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Tgt Ion: 64 Resp: 4334
Ion Ratio Lower Upper
64 100
66 39.0 24.1 44.7

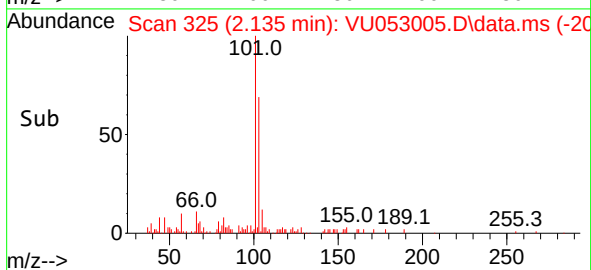
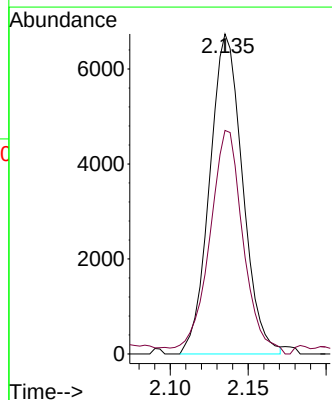
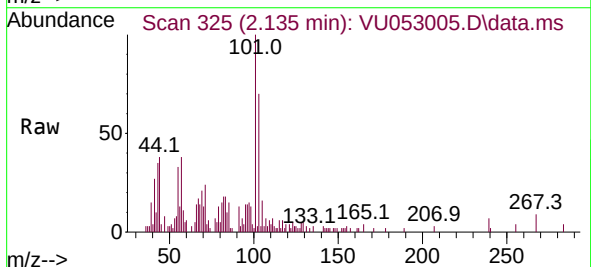
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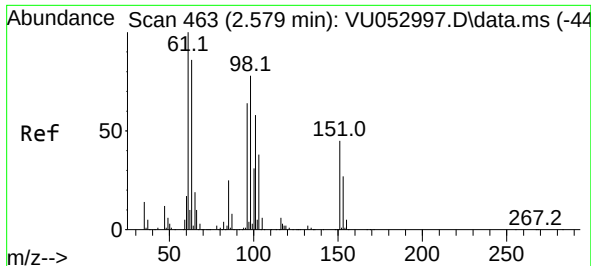
Reviewed By :John Carlone 02/09/2023
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#9
Trichlorofluoromethane
Concen: 2.261 ug/L
RT: 2.135 min Scan# 325
Delta R.T. -0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion:101 Resp: 9886
Ion Ratio Lower Upper
101 100
103 71.3 52.0 78.0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 3.012 ug/L

RT: 2.576 min Scan# 462

Delta R.T. -0.003 min

Lab File: VU053005.D

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Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT1-2023-02

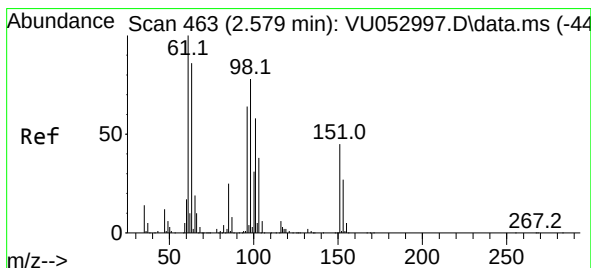
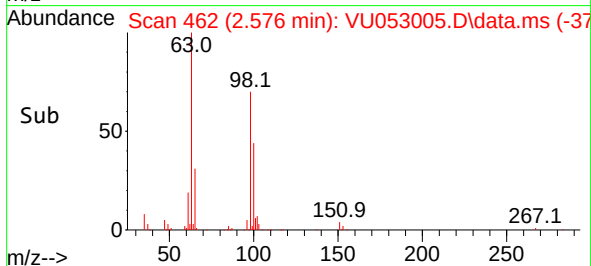
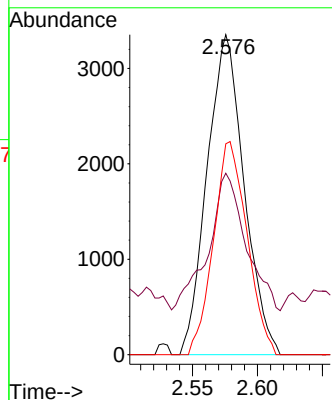
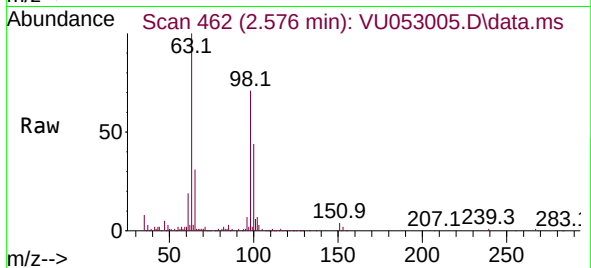
Tgt Ion:	101	Resp:	6630
Ion Ratio	Lower	Upper	
101	100		
85	43.4	32.9	49.3
151	60.4	62.6	94.0

Manual Integrations

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#12

1,1-Dichloroethene

Concen: 2.809 ug/L

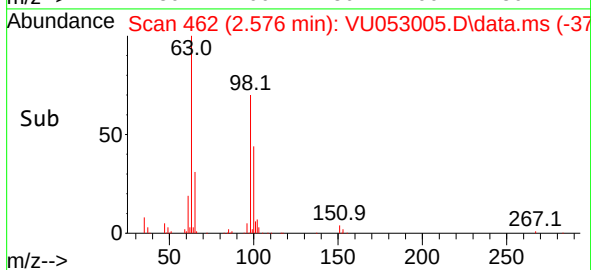
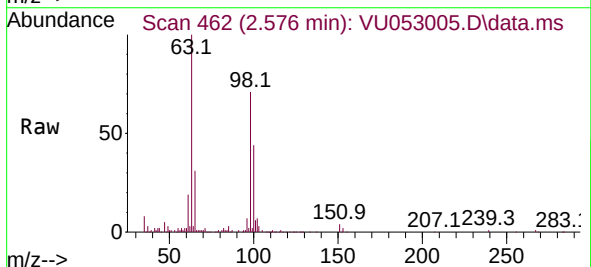
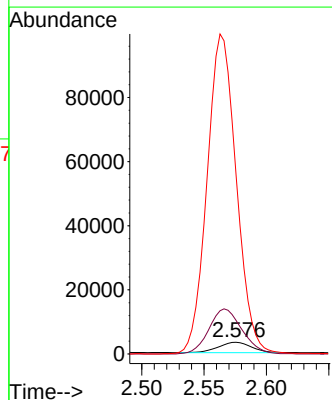
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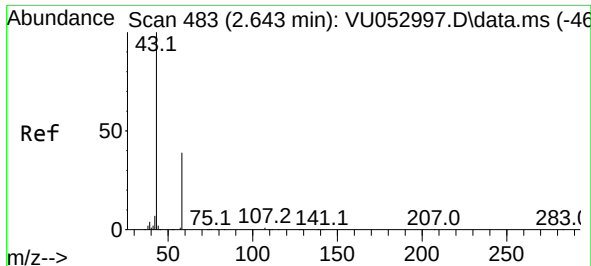
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Lab File: VU053005.D

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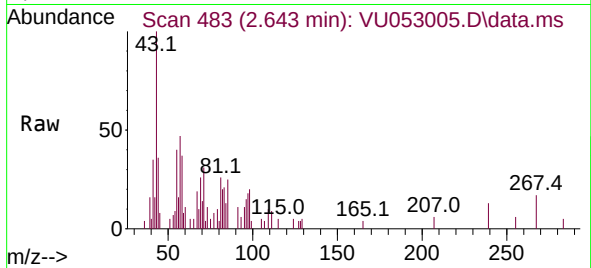
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Ion Ratio	Lower	Upper	
96	100		
61	286.5	114.3	212.3#
63	1530.6	80.6	149.6#





#13
Acetone
Concen: 2.964 ug/L
RT: 2.643 min Scan# 41
Delta R.T. -0.000 min
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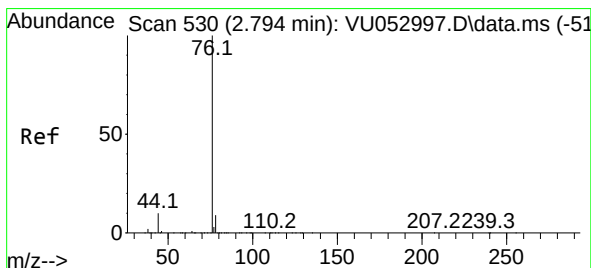
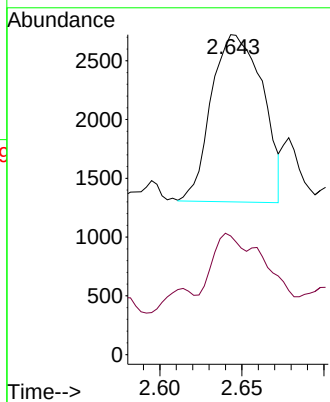
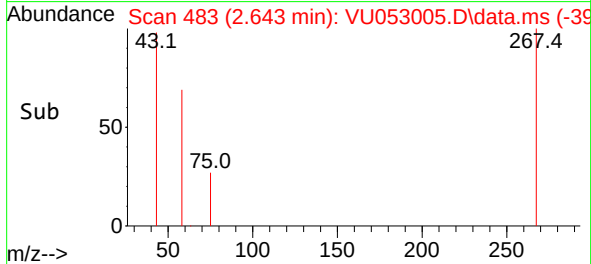
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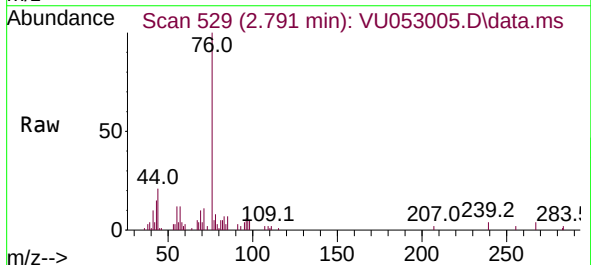
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Ion Ratio Lower Upper
43 100
58 21.2 0.0 70.2

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APPROVED

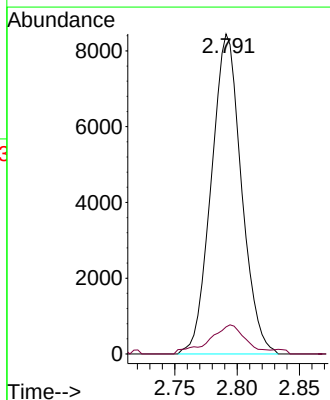
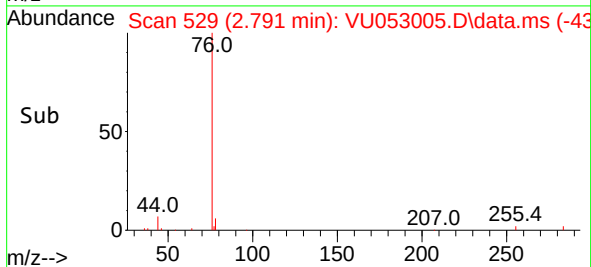
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023

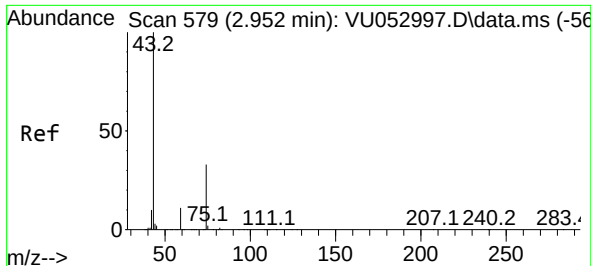


#14
Carbon disulfide
Concen: 2.277 ug/L
RT: 2.791 min Scan# 529
Delta R.T. -0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35



Tgt Ion: 76 Resp: 14220
Ion Ratio Lower Upper
76 100
78 8.4 7.1 10.7





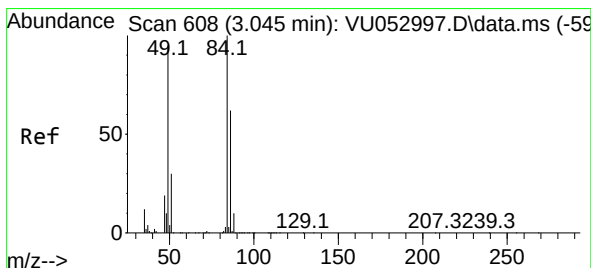
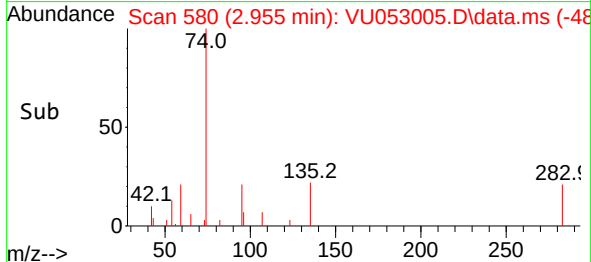
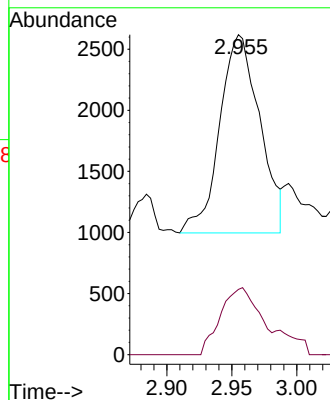
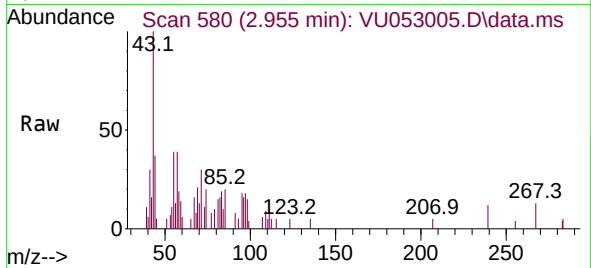
#15
Methyl Acetate
Concen: 2.309 ug/L
RT: 2.955 min Scan# 51
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 43 Resp: 3489
Ion Ratio Lower Upper
43 100
74 32.6 22.0 33.0

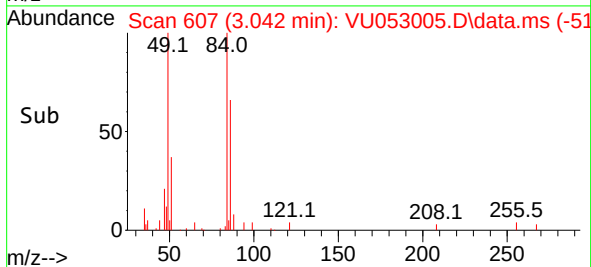
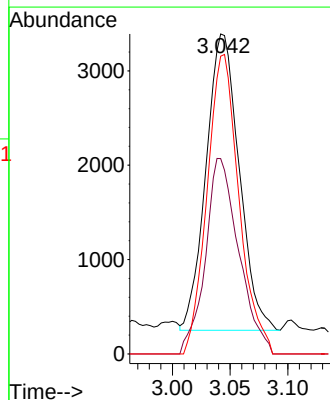
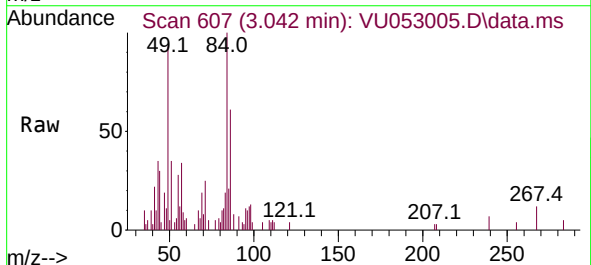
Manual Integrations
APPROVED

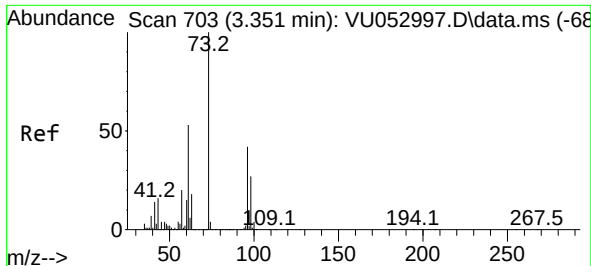
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#16
Methylene chloride
Concen: 2.473 ug/L
RT: 3.042 min Scan# 607
Delta R.T. -0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion: 84 Resp: 6265
Ion Ratio Lower Upper
84 100
86 61.0 43.4 80.6
49 93.1 72.4 134.5





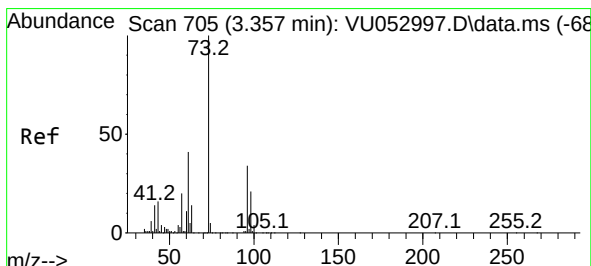
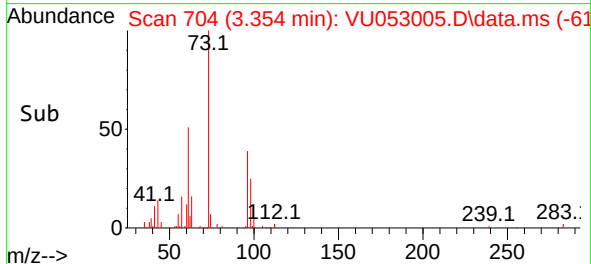
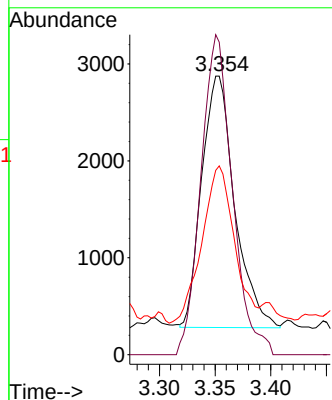
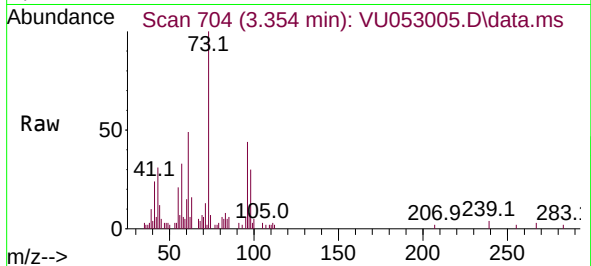
#17
trans-1,2-Dichloroethene
Concen: 2.381 ug/L
RT: 3.354 min Scan# 704
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 96 Resp: 5340
Ion Ratio Lower Upper
96 100
61 112.1 92.7 172.3
98 67.8 44.7 82.9

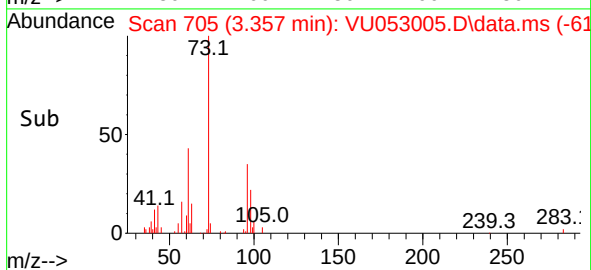
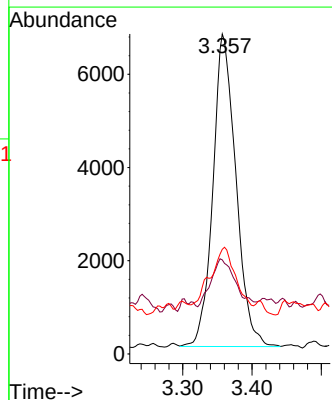
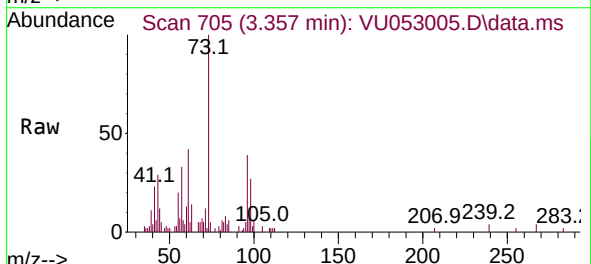
Manual Integrations
APPROVED

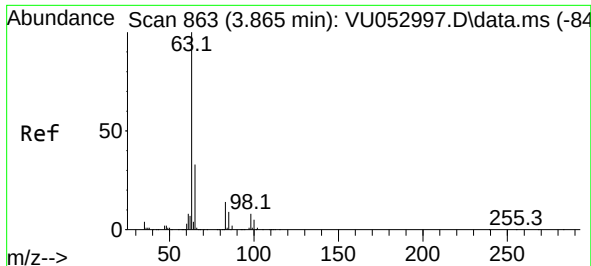
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#18
Methyl tert-butyl Ether
Concen: 2.210 ug/L
RT: 3.357 min Scan# 705
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion: 73 Resp: 15438
Ion Ratio Lower Upper
73 100
43 15.0 14.2 21.2
57 15.4 16.3 24.5#





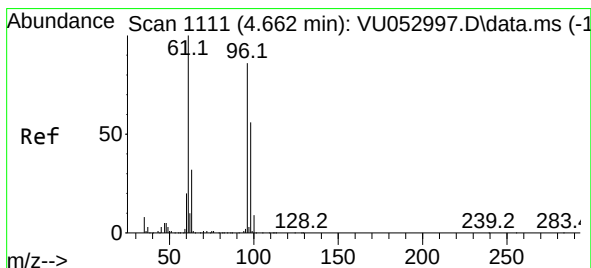
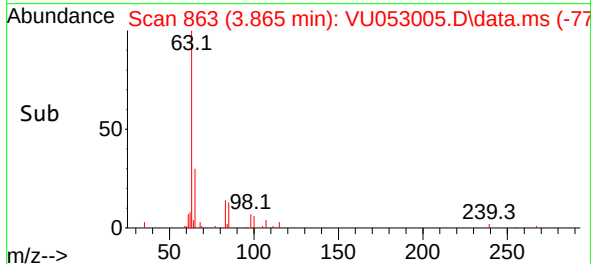
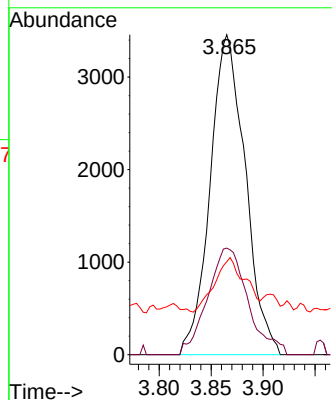
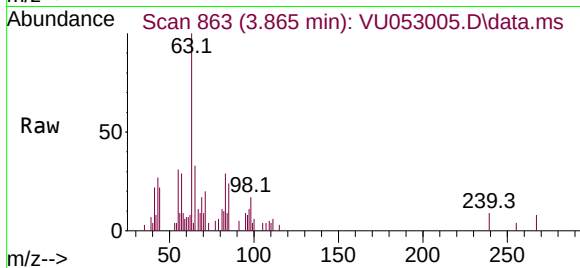
#19
1,1-Dichloroethane
Concen: 2.112 ug/L
RT: 3.865 min Scan# 863
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 63 Resp: 8120
Ion Ratio Lower Upper
63 100
65 33.3 22.4 41.6
83 29.1 9.2 17.2

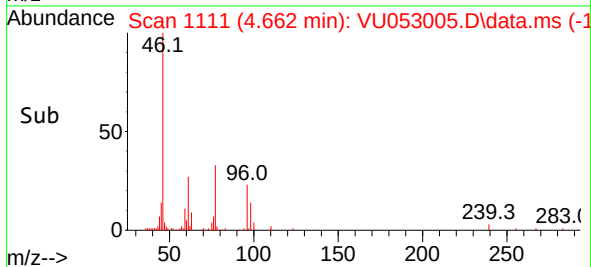
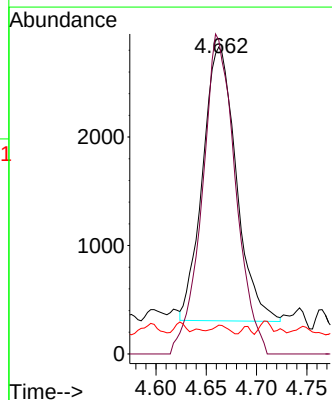
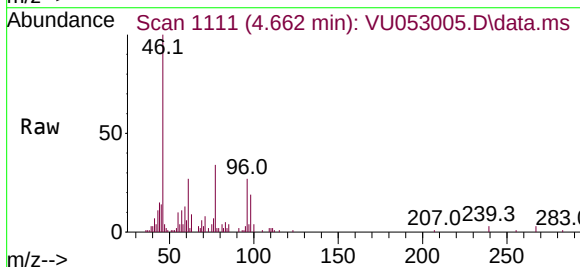
Manual Integrations
APPROVED

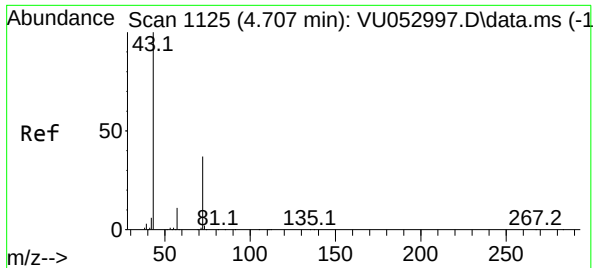
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#20
cis-1,2-Dichloroethene
Concen: 2.318 ug/L
RT: 4.662 min Scan# 1111
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion: 96 Resp: 5871
Ion Ratio Lower Upper
96 100
61 102.3 84.1 156.1
68 9.4 0.0 0.0





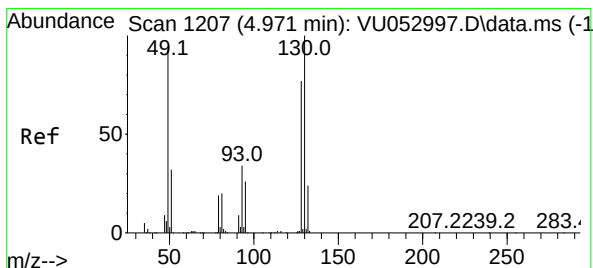
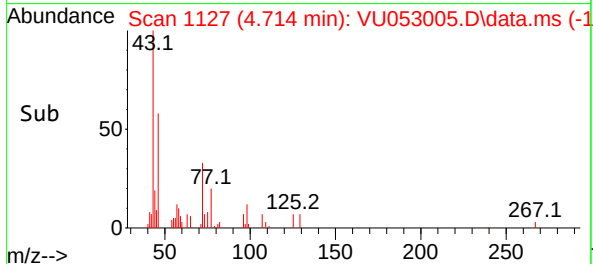
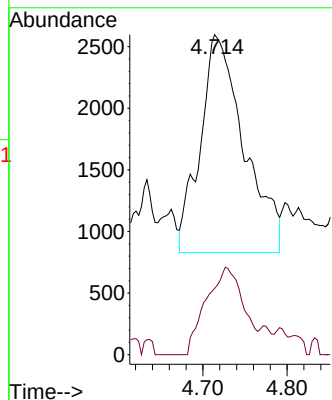
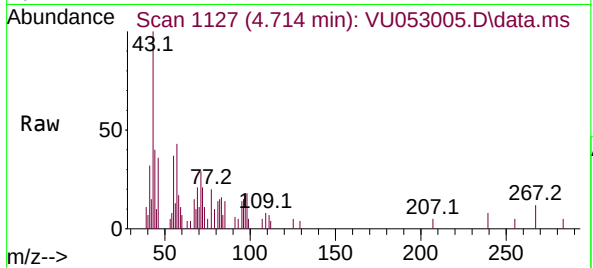
#22
2-Butanone
Concen: 5.234 ug/L m
RT: 4.714 min Scan# 1125
Delta R.T. 0.006 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 43 Resp: 642
Ion Ratio Lower Upper
43 100
72 1.4 15.5 46.5

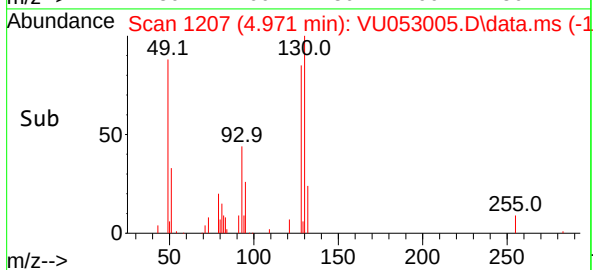
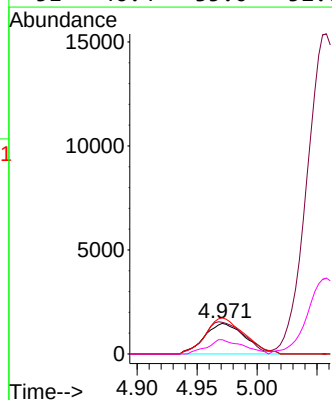
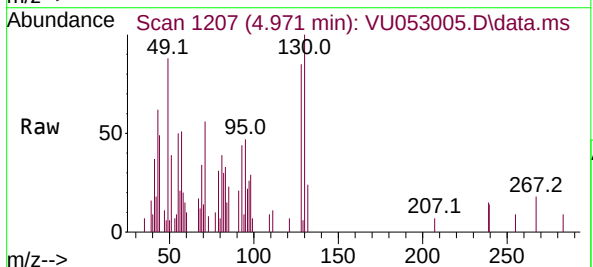
Manual Integrations
APPROVED

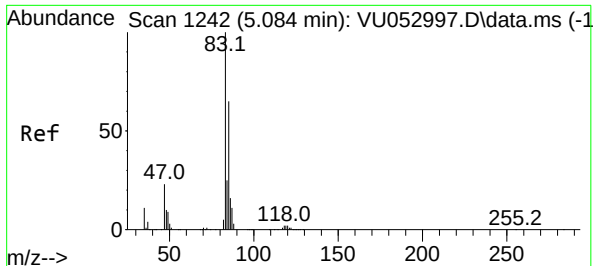
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#23
Bromochloromethane
Concen: 2.540 ug/L
RT: 4.971 min Scan# 1207
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion:128 Resp: 3470
Ion Ratio Lower Upper
128 100
49 103.5 90.1 167.3
130 117.8 90.1 167.3
51 46.4 35.0 52.6





#25

Chloroform

Concen: 2.521 ug/L

RT: 5.087 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU053005.D

Acq: 08 Feb 2023 17:35

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 83 Resp: 1084

Ion Ratio Lower Upper

83 100

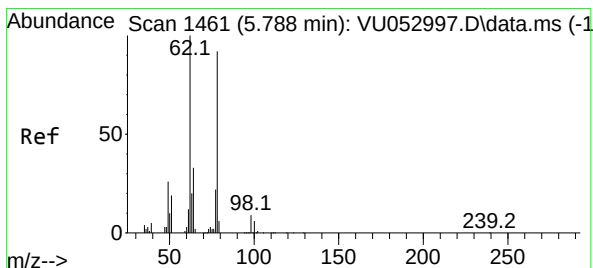
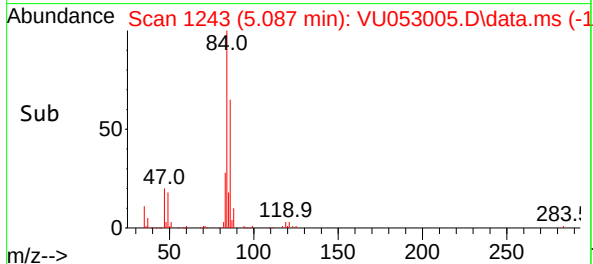
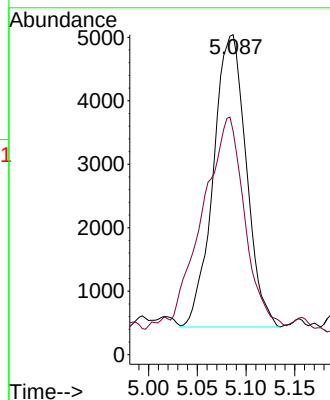
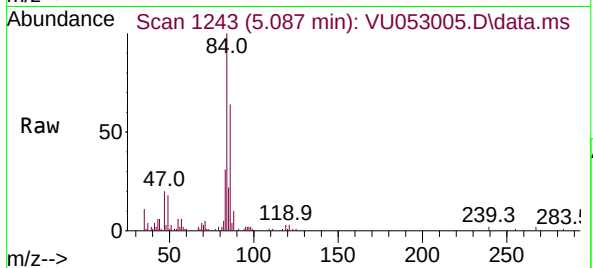
85 69.8 45.8 85.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/09/2023

Supervised By :Mahesh Dadoda 02/09/2023



#27

1,2-Dichloroethane

Concen: 2.331 ug/L

RT: 5.794 min Scan# 1463

Delta R.T. 0.006 min

Lab File: VU053005.D

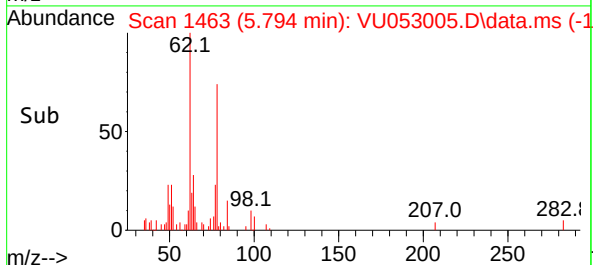
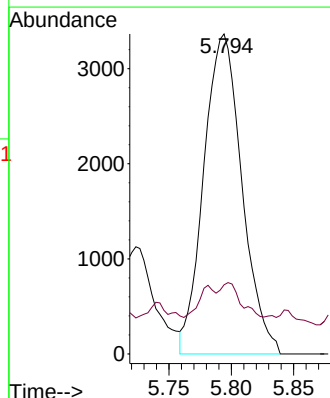
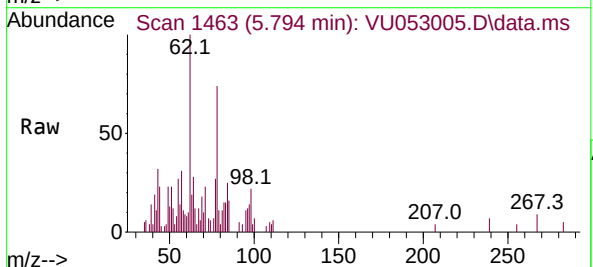
Acq: 08 Feb 2023 17:35

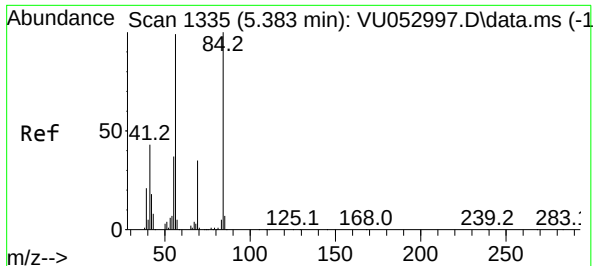
Tgt Ion: 62 Resp: 7167

Ion Ratio Lower Upper

62 100

98 21.6 7.6 11.4#





#29

Cyclohexane

Concen: 2.108 ug/L

RT: 5.383 min Scan# 1335

Delta R.T. -0.000 min

Lab File: VU053005.D

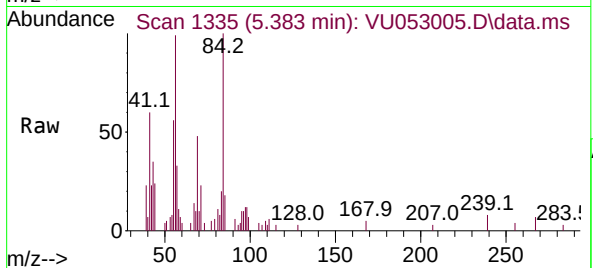
Acq: 08 Feb 2023 17:35

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT1-2023-02



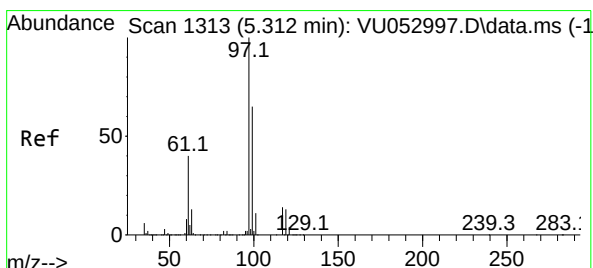
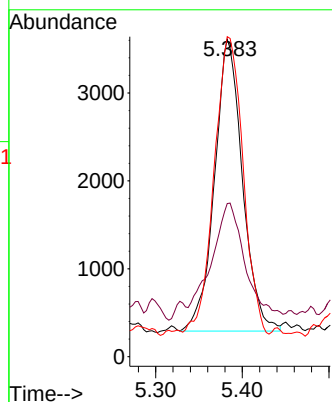
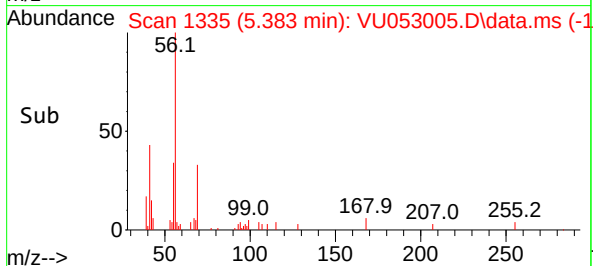
Tgt Ion:	56	Resp:	744
Ion	Ratio	Lower	Upper
56	100		
69	36.7	26.6	40.0
84	105.2	77.0	115.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/09/2023

Supervised By :Mahesh Dadoda 02/09/2023



#30

1,1,1-Trichloroethane

Concen: 2.292 ug/L

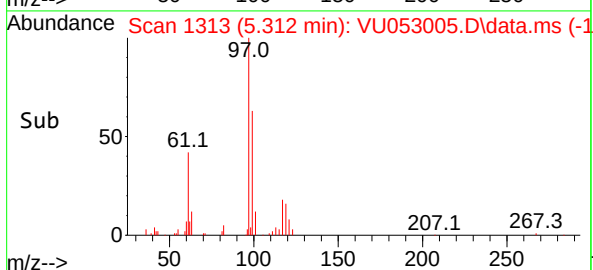
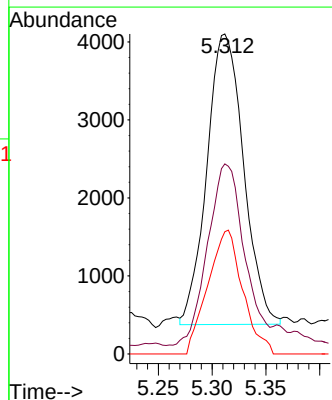
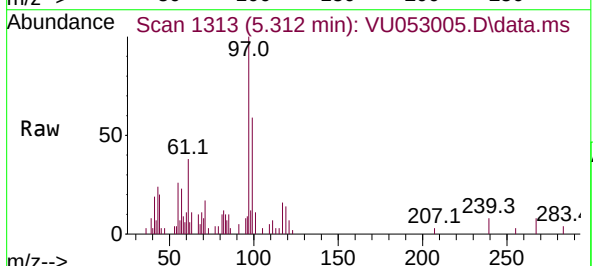
RT: 5.312 min Scan# 1313

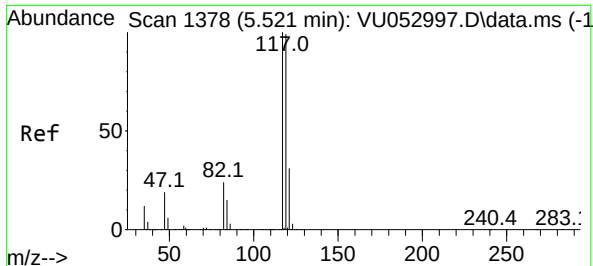
Delta R.T. -0.000 min

Lab File: VU053005.D

Acq: 08 Feb 2023 17:35

Tgt Ion:	97	Resp:	8851
Ion	Ratio	Lower	Upper
97	100		
99	62.0	51.4	77.0
61	40.2	33.0	49.6





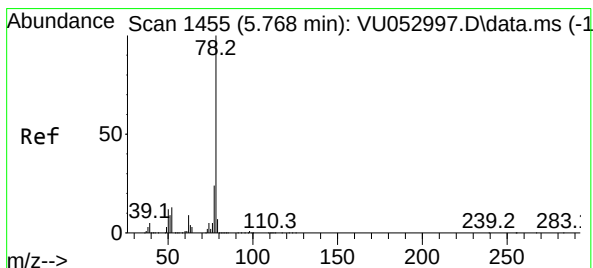
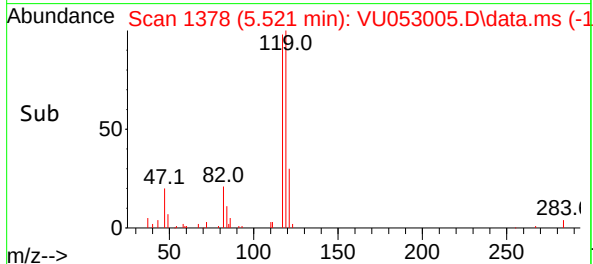
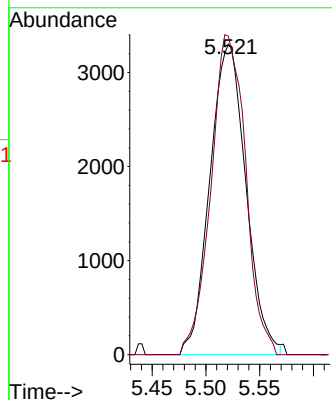
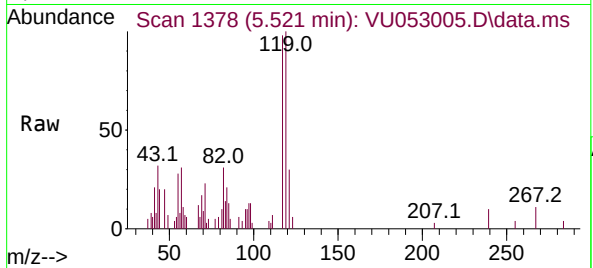
#31
Carbon tetrachloride
Concen: 2.274 ug/L
RT: 5.521 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT1-2023-02

Tgt Ion:117 Resp: 770
Ion Ratio Lower Upper
117 100
119 98.8 76.2 114.4

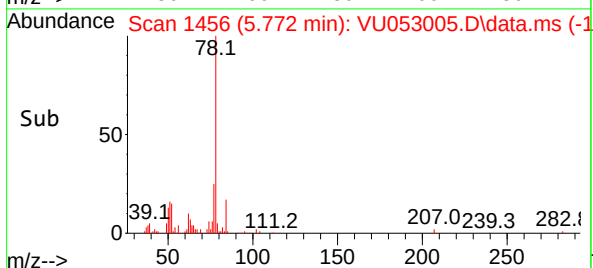
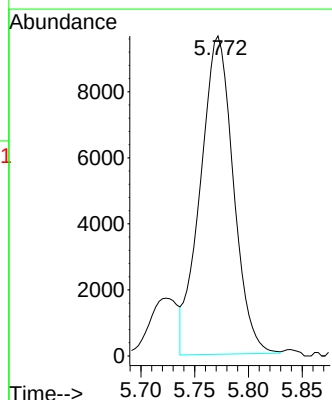
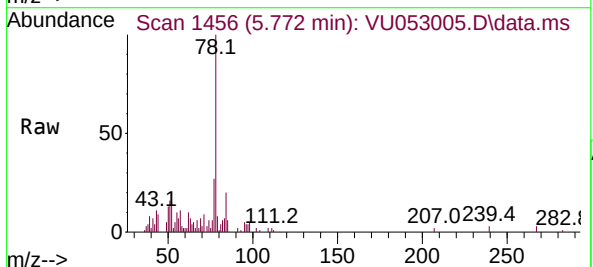
Manual Integrations
APPROVED

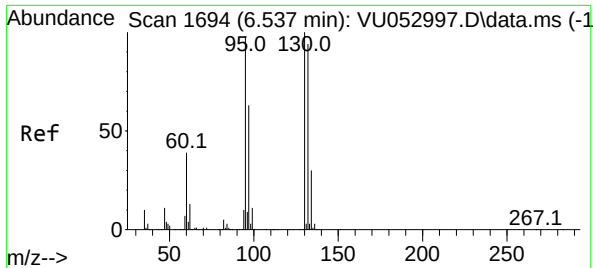
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#33
Benzene
Concen: 2.233 ug/L
RT: 5.772 min Scan# 1456
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion: 78 Resp: 20568





#34

Trichloroethene

Concen: 2.440 ug/L

RT: 6.543 min Scan# 1694

Delta R.T. 0.006 min

Lab File: VU053005.D

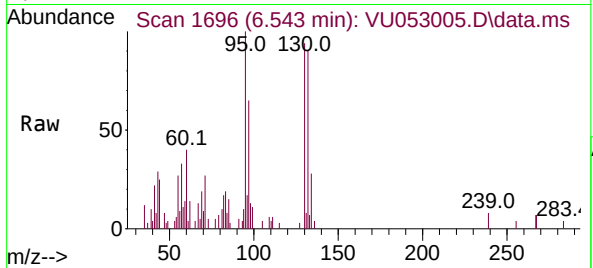
Acq: 08 Feb 2023 17:35

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT1-2023-02



Tgt Ion: 95 Resp: 611

Ion Ratio Lower Upper

95 100

97 65.3 44.5 82.7

132 89.8 66.8 124.0

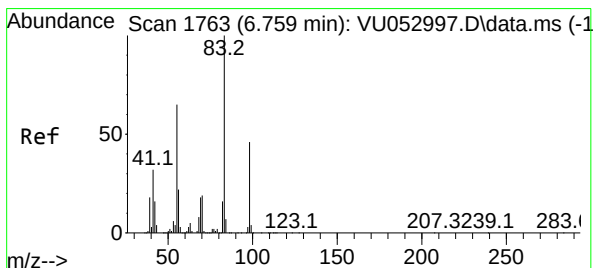
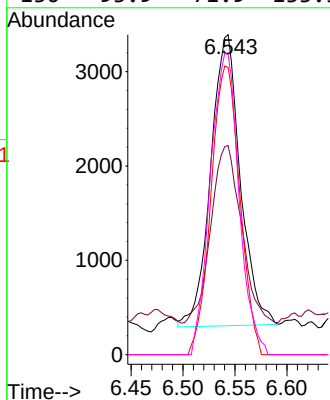
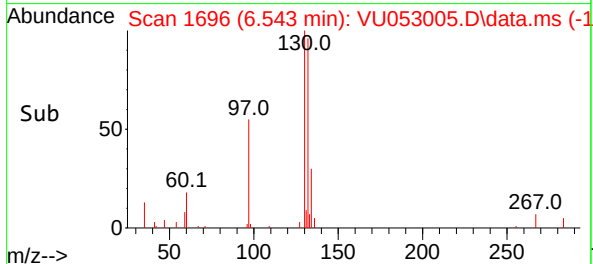
130 93.9 71.9 133.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/09/2023

Supervised By :Mahesh Dadoda 02/09/2023



#35

Methylcyclohexane

Concen: 2.245 ug/L

RT: 6.759 min Scan# 1763

Delta R.T. -0.000 min

Lab File: VU053005.D

Acq: 08 Feb 2023 17:35

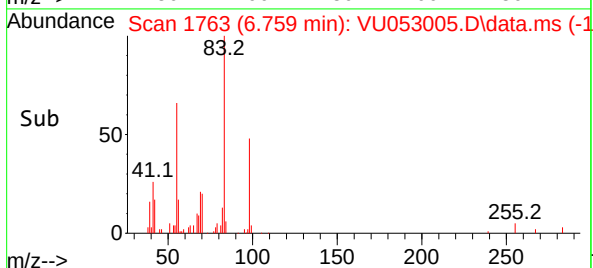
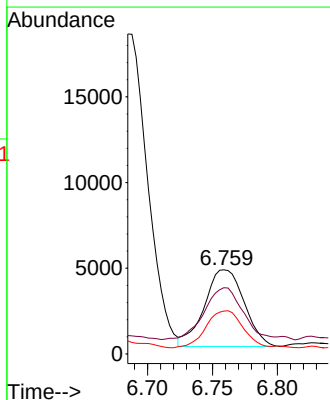
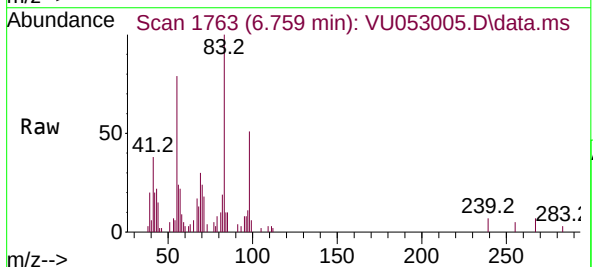
Tgt Ion: 83 Resp: 9549

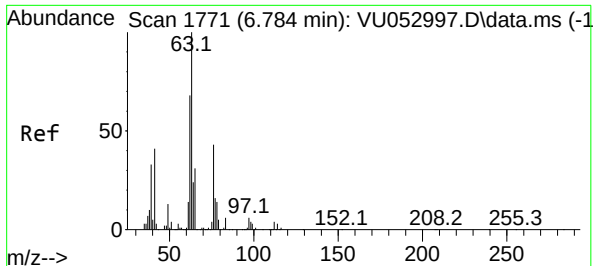
Ion Ratio Lower Upper

83 100

55 65.8 57.1 85.7

98 44.5 38.9 58.3





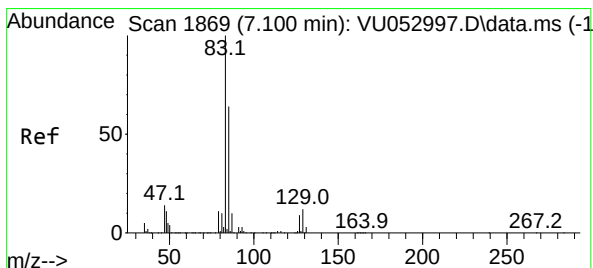
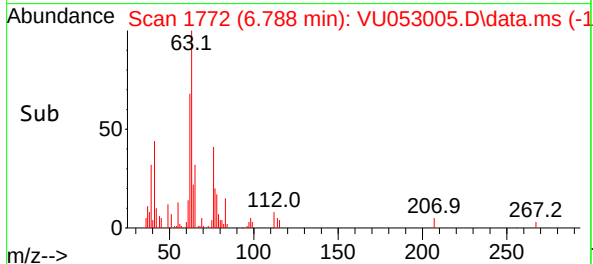
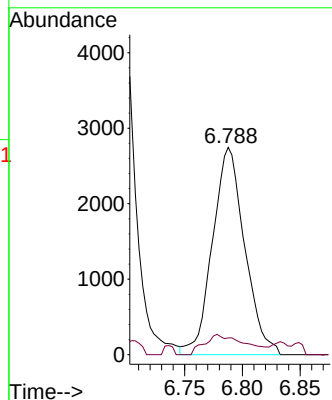
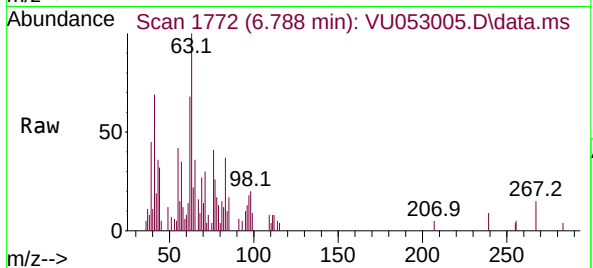
#37
1,2-Dichloropropane
Concen: 2.283 ug/L
RT: 6.788 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 63 Resp: 533
Ion Ratio Lower Upper
63 100
112 6.0 3.8 5.8

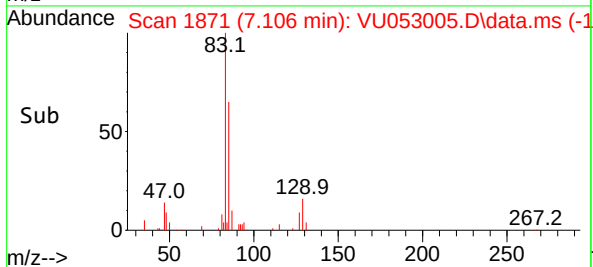
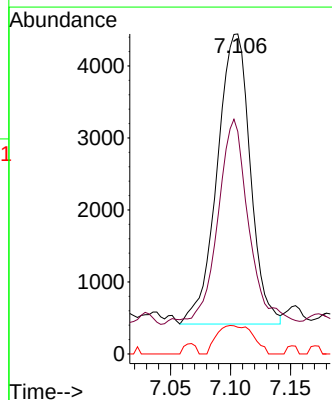
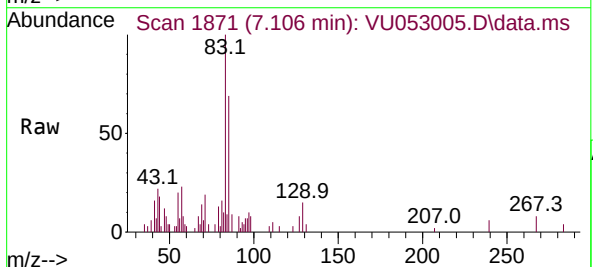
Manual Integrations
APPROVED

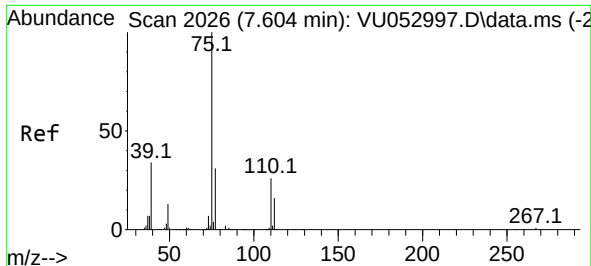
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#38
Bromodichloromethane
Concen: 2.298 ug/L
RT: 7.106 min Scan# 1871
Delta R.T. 0.006 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion: 83 Resp: 7755
Ion Ratio Lower Upper
83 100
85 69.5 45.2 84.0
127 8.4 7.4 11.0





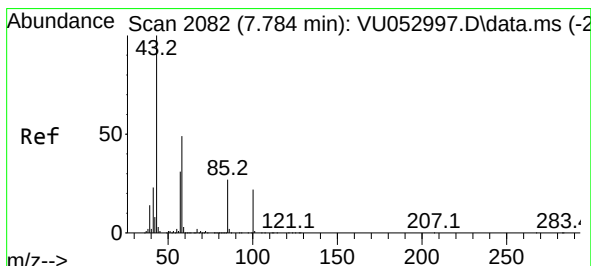
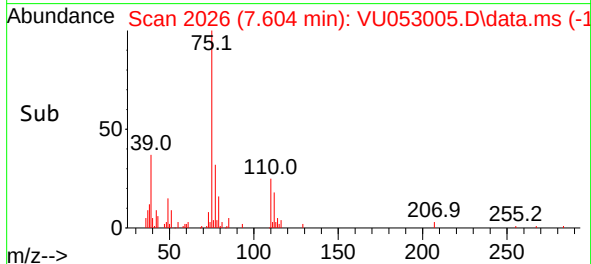
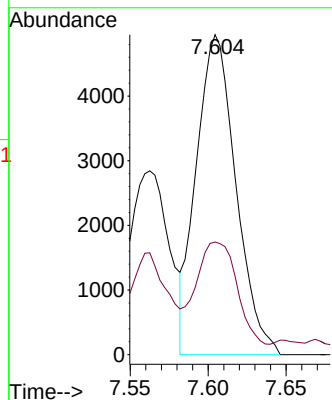
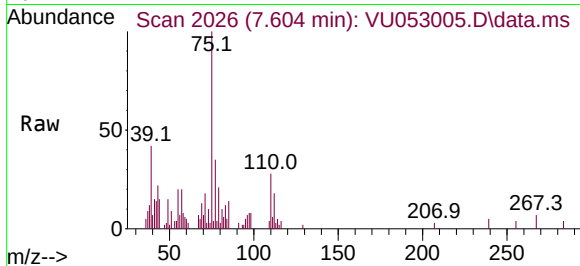
#39
 cis-1,3-Dichloropropene
 Concen: 2.178 ug/L
 RT: 7.604 min Scan# 2026
 Delta R.T. -0.000 min
 Lab File: VU053005.D
 Acq: 08 Feb 2023 17:35

Instrument : MSVOA_U
 ClientSampleId : MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 75 Resp: 874
 Ion Ratio Lower Upper
 75 100
 77 35.2 21.6 40.0

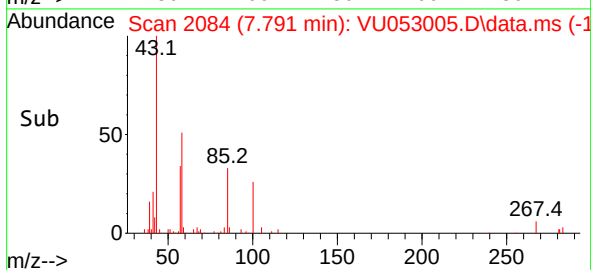
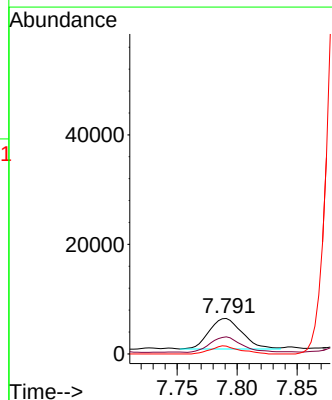
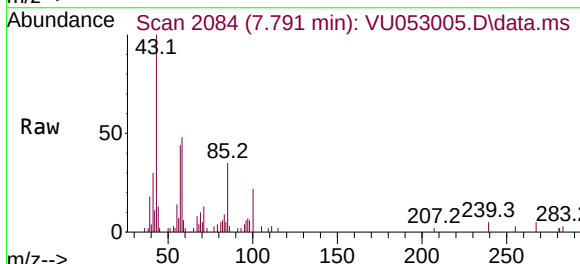
Manual Integrations
 APPROVED

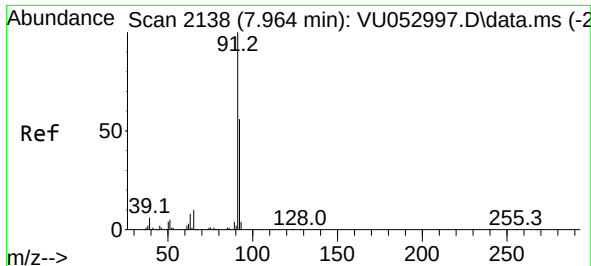
Reviewed By :John Carlone 02/09/2023
 Supervised By :Mahesh Dadoda 02/09/2023



#40
 4-Methyl-2-pentanone
 Concen: 4.748 ug/L
 RT: 7.791 min Scan# 2084
 Delta R.T. 0.006 min
 Lab File: VU053005.D
 Acq: 08 Feb 2023 17:35

Tgt Ion: 43 Resp: 10737
 Ion Ratio Lower Upper
 43 100
 58 47.6 35.4 53.2
 100 23.3 16.0 24.0





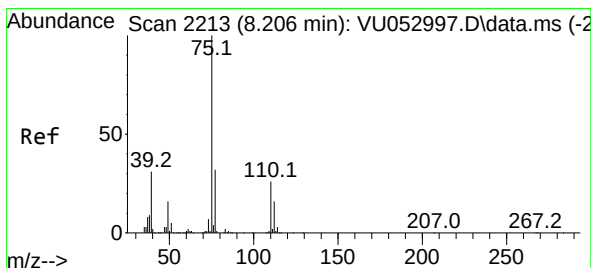
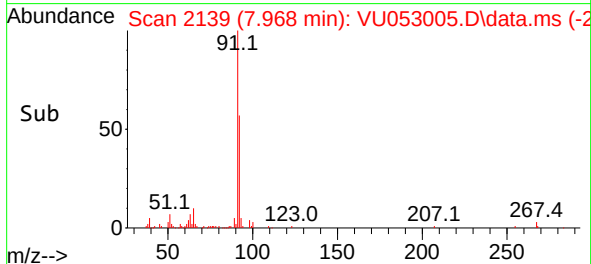
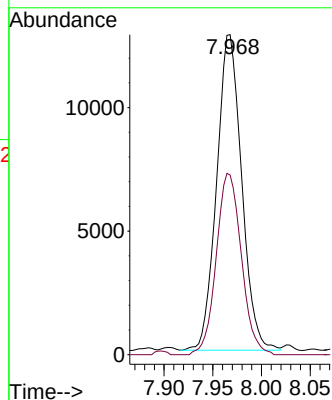
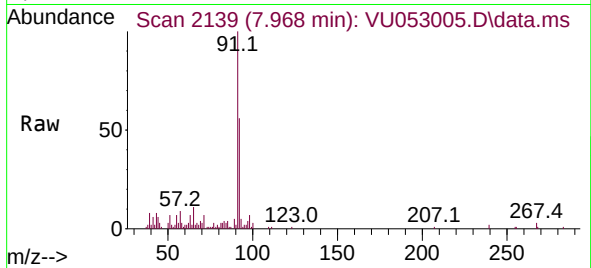
#42
Toluene
Concen: 2.186 ug/L
RT: 7.968 min Scan# 2138
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 91 Resp: 2281
Ion Ratio Lower Upper
91 100
92 56.1 42.6 79.0

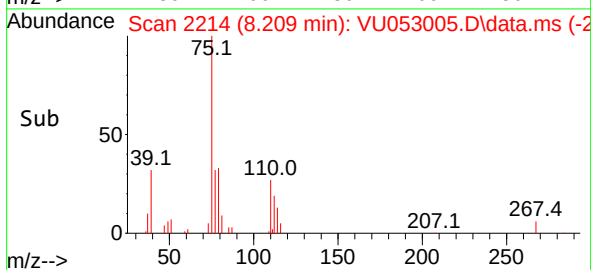
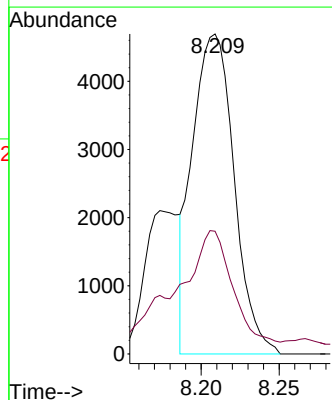
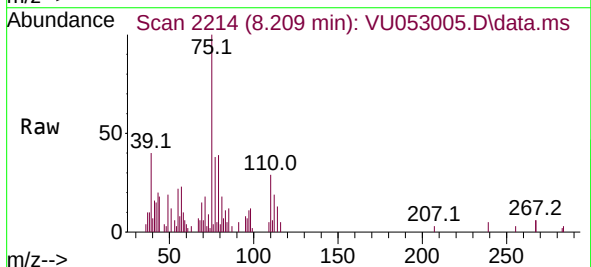
Manual Integrations
APPROVED

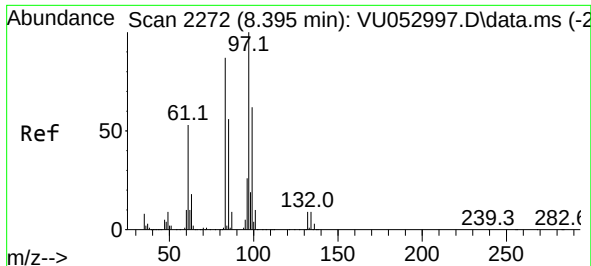
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#44
trans-1,3-Dichloropropene
Concen: 2.242 ug/L
RT: 8.209 min Scan# 2214
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

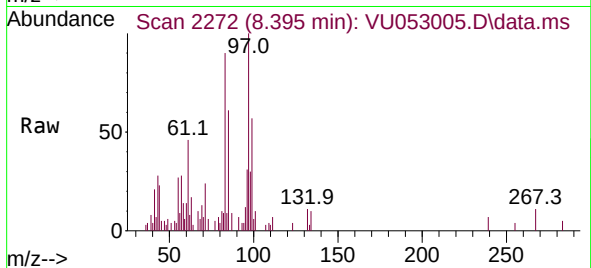
Tgt Ion: 75 Resp: 8723
Ion Ratio Lower Upper
75 100
77 38.3 22.3 41.3





#45
1,1,2-Trichloroethane
Concen: 2.119 ug/L
RT: 8.395 min Scan# 2119
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

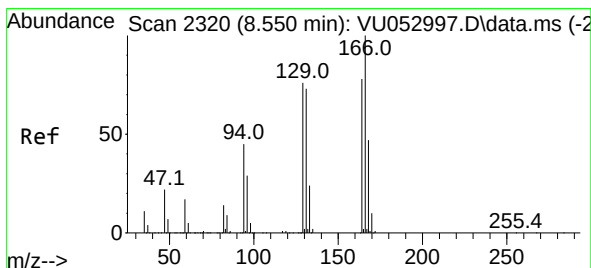
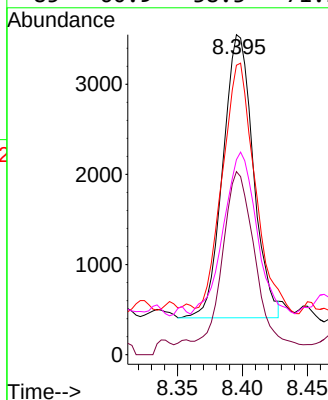
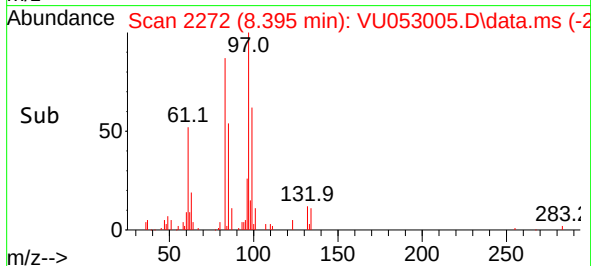
Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT1-2023-02



Tgt Ion:	97	Resp:	5090
Ion Ratio	Lower	Upper	
97	100		
99	57.2	44.7	83.1
83	90.5	60.3	112.1
85	60.9	38.3	71.1

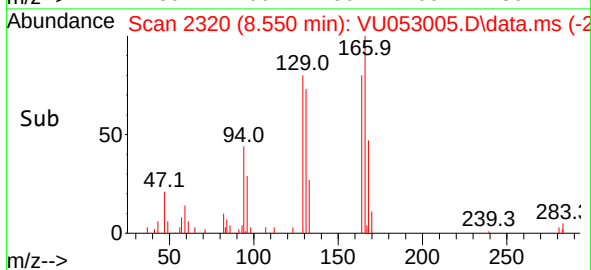
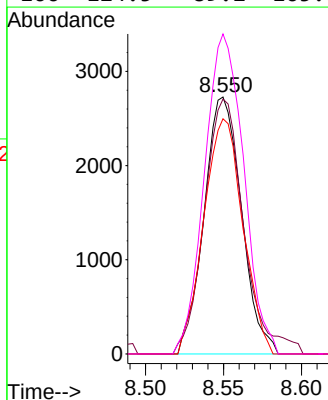
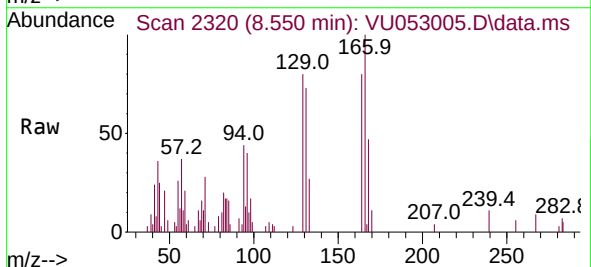
Manual Integrations
APPROVED

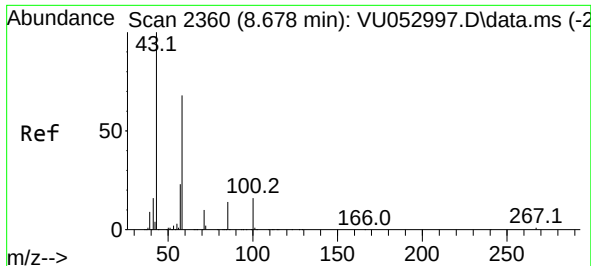
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#46
Tetrachloroethene
Concen: 2.297 ug/L
RT: 8.550 min Scan# 2320
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion:	164	Resp:	4557
Ion Ratio	Lower	Upper	
164	100		
129	99.2	64.8	120.3
131	91.5	61.2	113.6
166	124.5	89.2	165.8





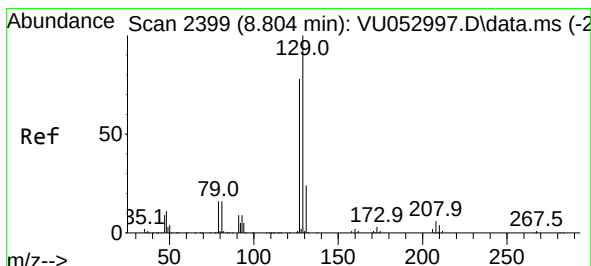
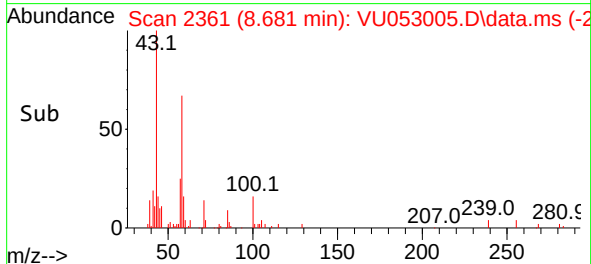
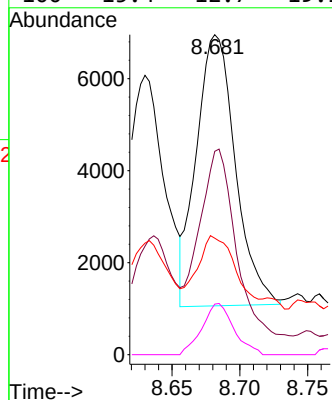
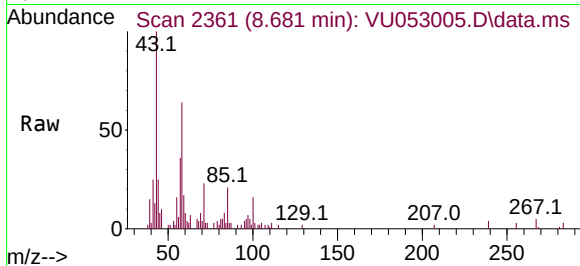
#48
2-Hexanone
Concen: 6.542 ug/L
RT: 8.681 min Scan# 211794
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 43 Resp: 11794
Ion Ratio Lower Upper
43 100
58 65.9 48.0 72.0
57 20.9 16.8 25.2
100 15.4 12.7 19.1

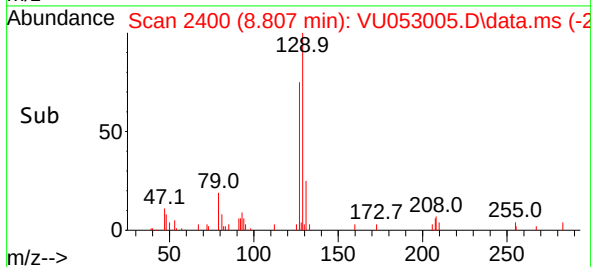
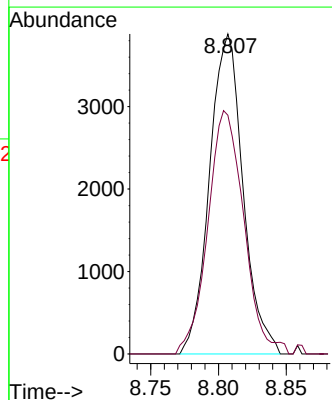
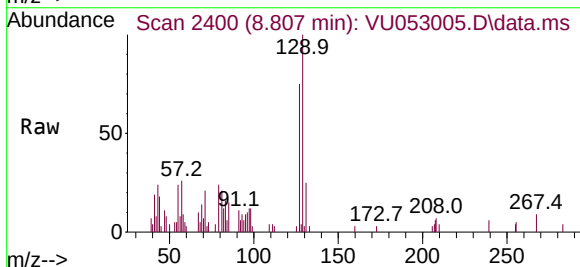
Manual Integrations
APPROVED

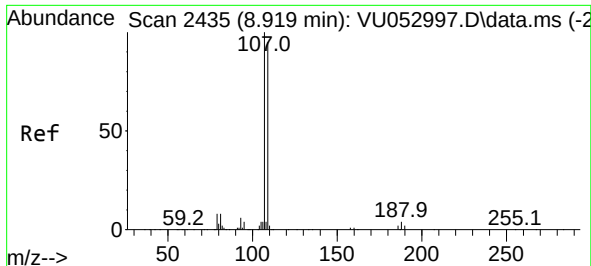
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#49
Dibromochloromethane
Concen: 2.298 ug/L
RT: 8.807 min Scan# 2400
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion:129 Resp: 6678
Ion Ratio Lower Upper
129 100
127 74.6 53.2 98.8





#50
1,2-Dibromoethane
Concen: 2.244 ug/L
RT: 8.919 min Scan# 2435
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

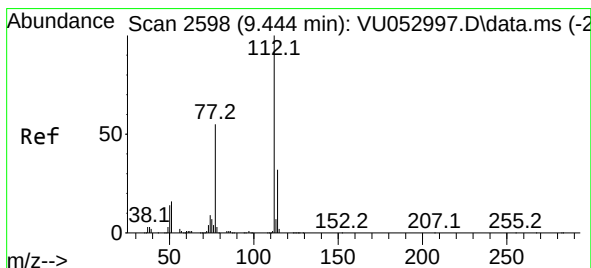
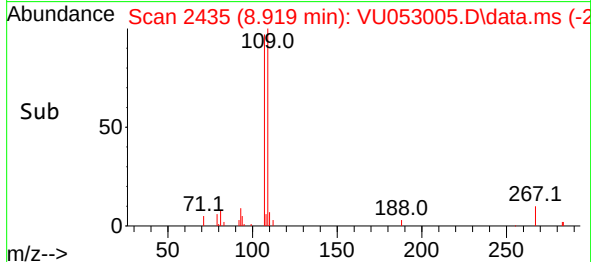
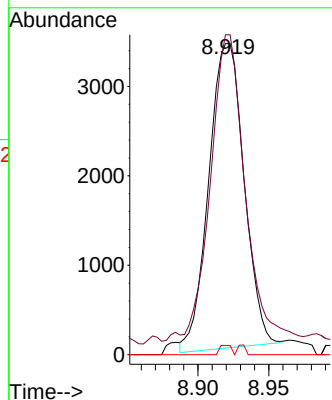
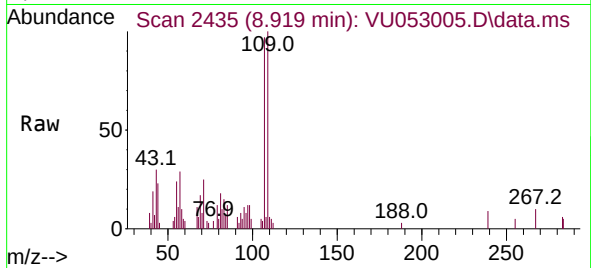
Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT1-2023-02

Tgt Ion:107 Resp: 5900

Ion	Ratio	Lower	Upper
107	100		
109	102.9	65.5	121.6
188	3.0	3.2	4.8

Manual Integrations
APPROVED

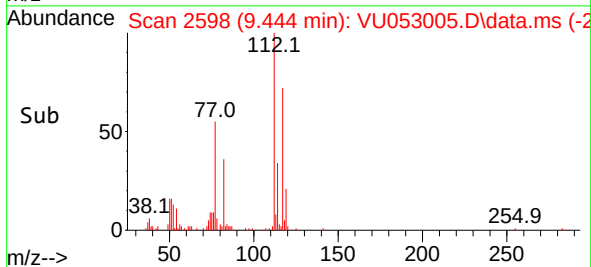
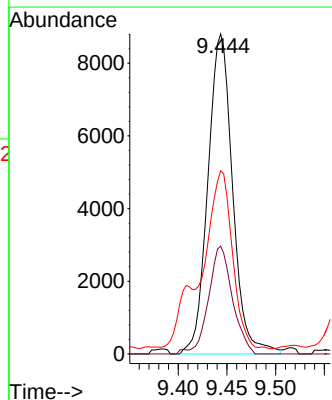
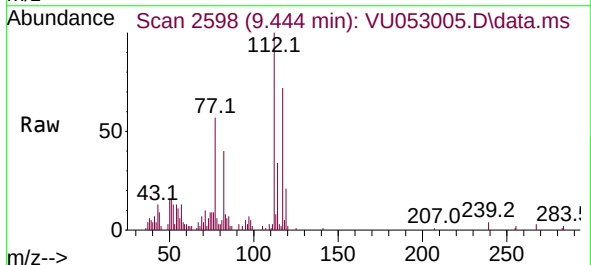
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023

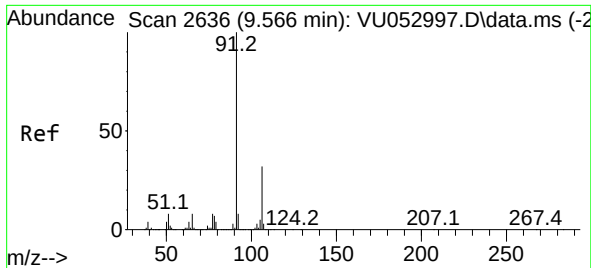


#51
Chlorobenzene
Concen: 2.320 ug/L
RT: 9.444 min Scan# 2598
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion:112 Resp: 15577

Ion	Ratio	Lower	Upper
112	100		
114	33.7	22.8	42.4
77	57.2	45.9	68.9





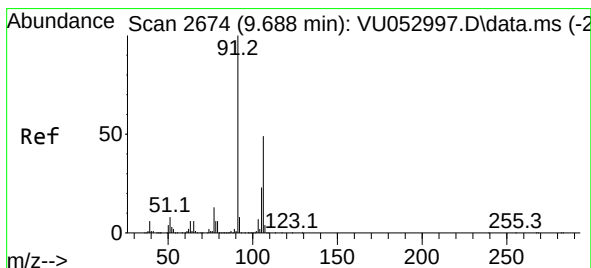
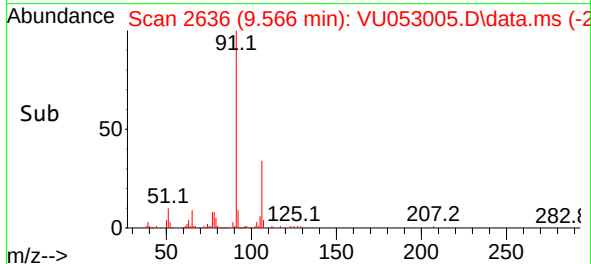
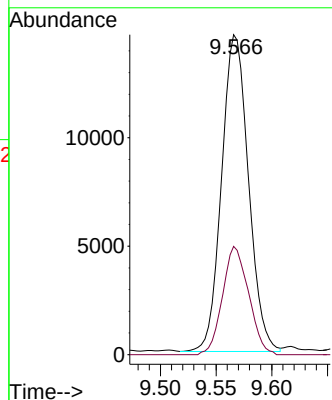
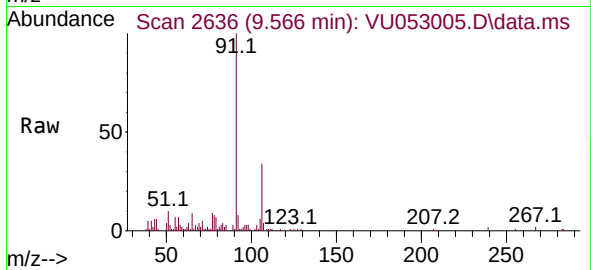
#52
Ethylbenzene
Concen: 2.135 ug/L
RT: 9.566 min Scan# 2636
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 91 Resp: 2450
Ion Ratio Lower Upper
91 100
106 33.8 22.0 40.8

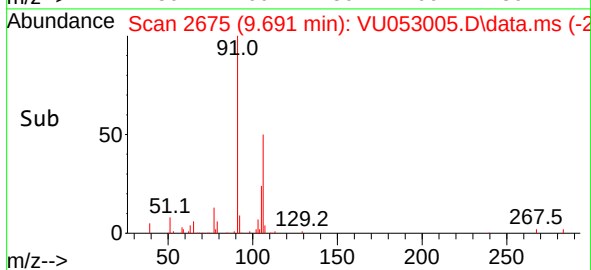
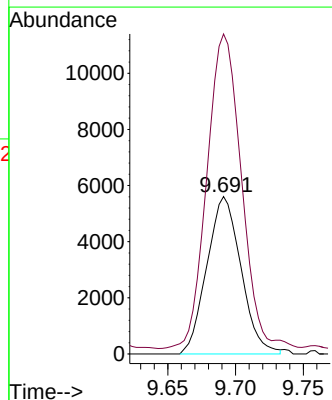
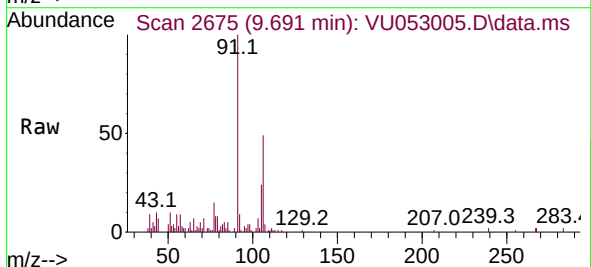
Manual Integrations
APPROVED

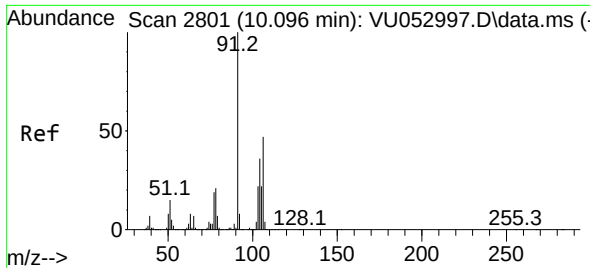
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#53
m,p-Xylene
Concen: 2.163 ug/L
RT: 9.691 min Scan# 2675
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion:106 Resp: 9816
Ion Ratio Lower Upper
106 100
91 203.3 137.4 255.2





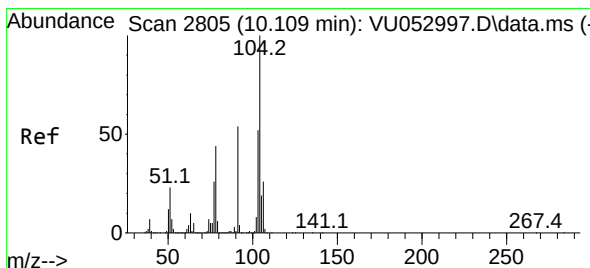
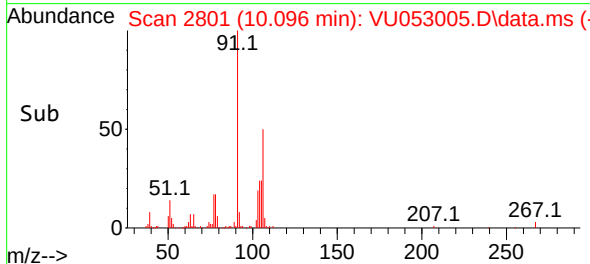
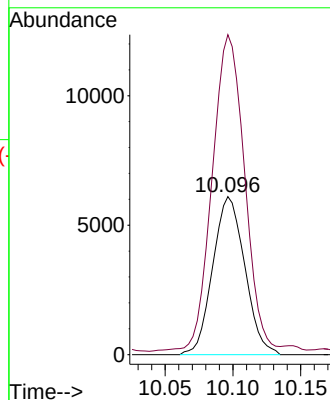
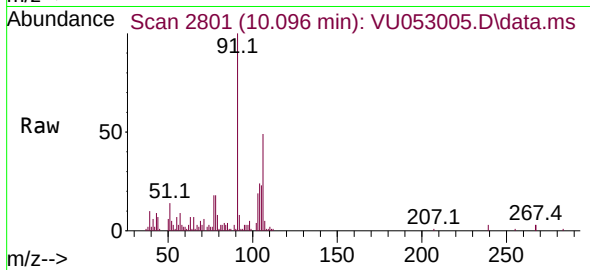
#54
o-xylene
Concen: 2.239 ug/L
RT: 10.096 min Scan# 2801
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT1-2023-02

Tgt Ion:106 Resp: 1003
Ion Ratio Lower Upper
106 100
91 202.5 143.4 266.2

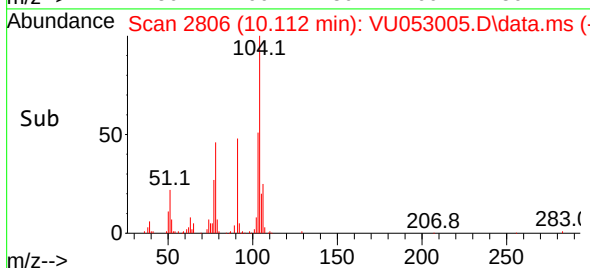
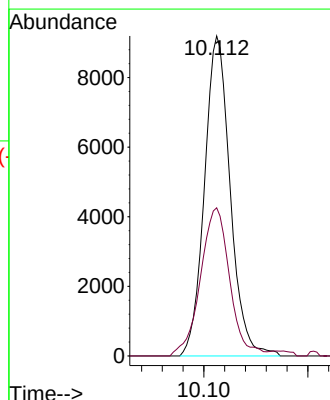
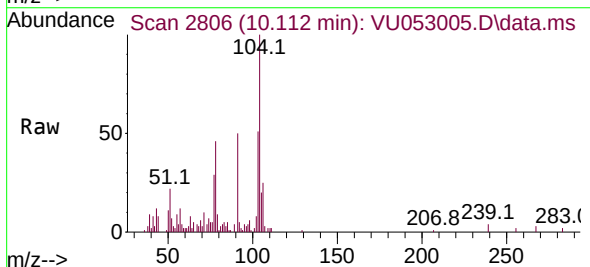
Manual Integrations
APPROVED

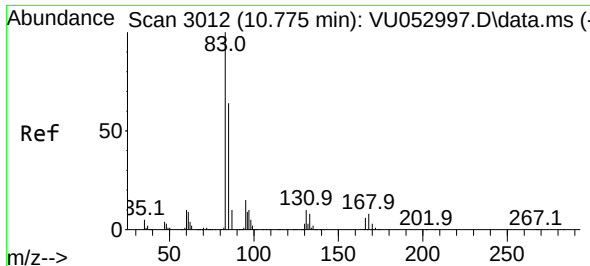
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#55
Styrene
Concen: 2.091 ug/L
RT: 10.112 min Scan# 2806
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion:104 Resp: 15811
Ion Ratio Lower Upper
104 100
78 46.3 31.9 59.2





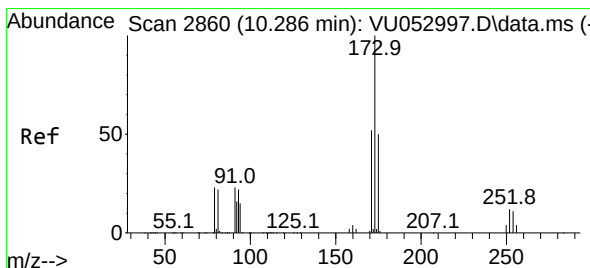
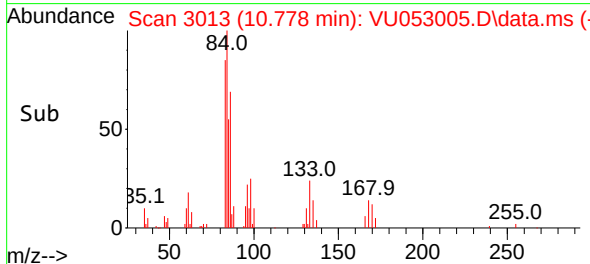
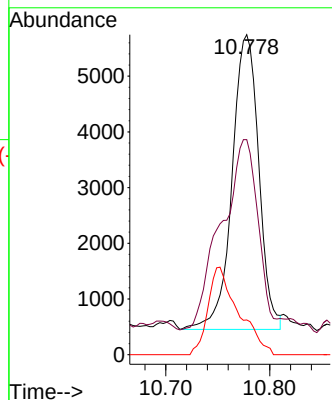
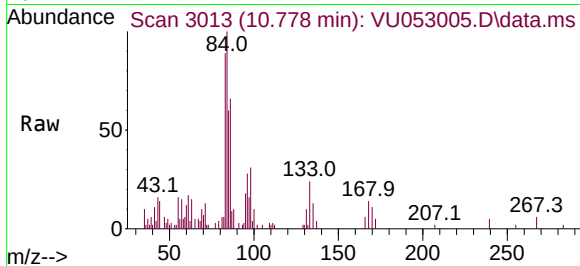
#57
1,1,2,2-Tetrachloroethane
Concen: 2.521 ug/L
RT: 10.778 min Scan# 3012
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT1-2023-02

Tgt Ion: 83 Resp: 9450
Ion Ratio Lower Upper
83 100
85 67.2 45.0 83.6
131 10.9 8.6 12.8

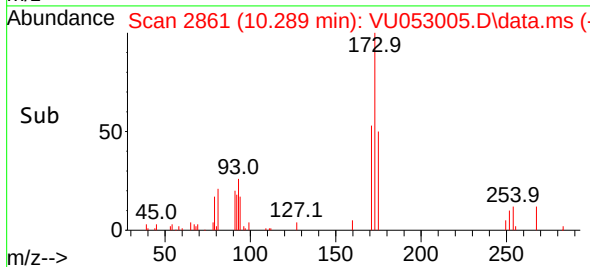
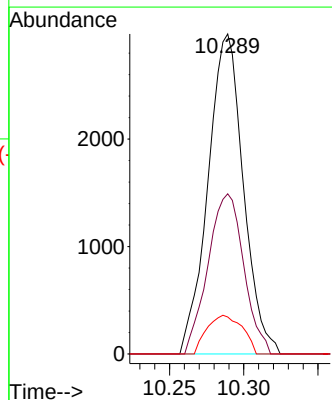
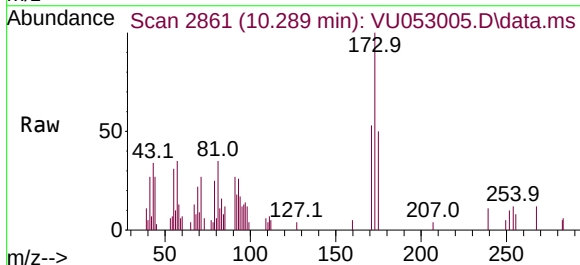
Manual Integrations
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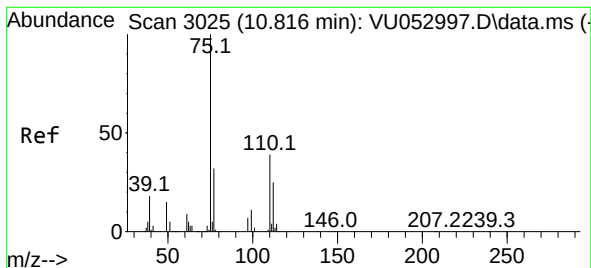
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#59
Bromoform
Concen: 2.418 ug/L
RT: 10.289 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion:173 Resp: 4924
Ion Ratio Lower Upper
173 100
175 50.7 37.7 56.5
254 12.1 8.3 12.5





#60

1,2,3-Trichloropropane

Concen: 2.577 ug/L

RT: 10.820 min Scan# 3025

Delta R.T. 0.003 min

Lab File: VU053005.D

Acq: 08 Feb 2023 17:35

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT1-2023-02

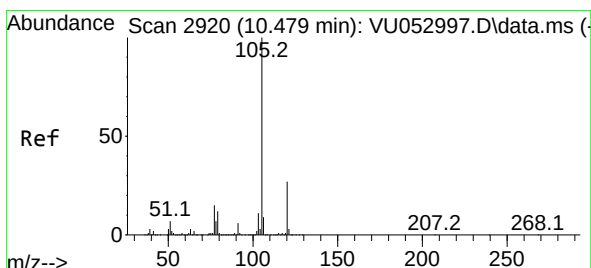
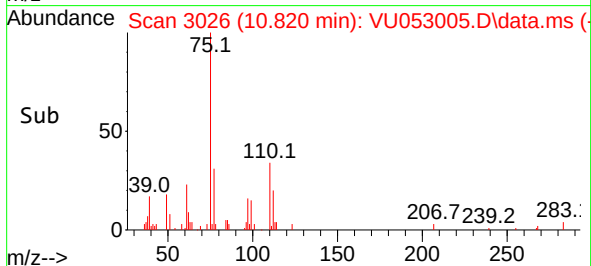
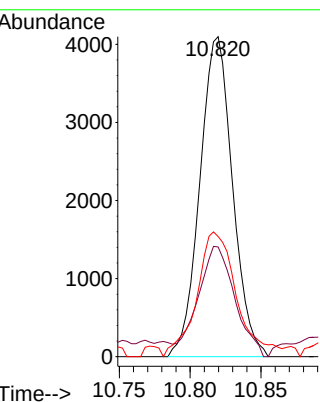
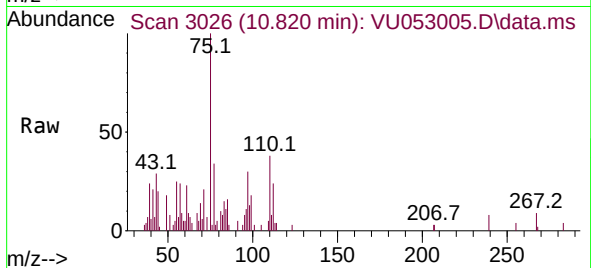
Tgt Ion: 75	Resp: 6588
Ion Ratio	Lower Upper
75 100	
77 38.9	25.8 38.8
110 46.2	32.4 48.6

Manual Integrations

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Reviewed By :John Carlone 02/09/2023

Supervised By :Mahesh Dadoda 02/09/2023



#61

Isopropylbenzene

Concen: 2.249 ug/L

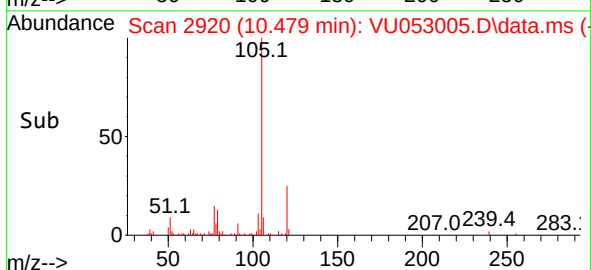
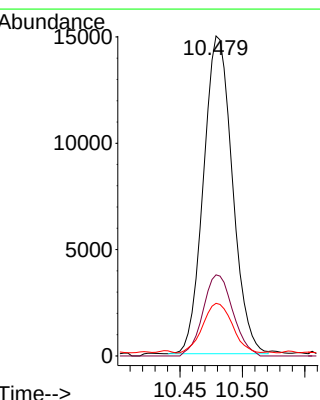
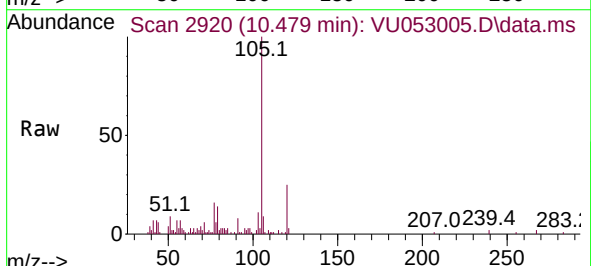
RT: 10.479 min Scan# 2920

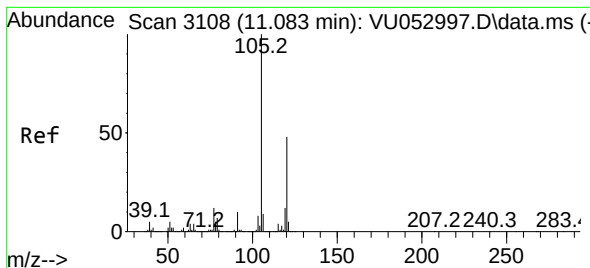
Delta R.T. -0.000 min

Lab File: VU053005.D

Acq: 08 Feb 2023 17:35

Tgt Ion: 105	Resp: 24087
Ion Ratio	Lower Upper
105 100	
120 26.4	21.4 32.2
77 16.0	12.2 18.2





#62

1,3,5-Trimethylbenzene

Concen: 2.230 ug/L

RT: 11.083 min Scan# 3108

Delta R.T. -0.000 min

Lab File: VU053005.D

Acq: 08 Feb 2023 17:35

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT1-2023-02

Tgt Ion:105 Resp: 2103

Ion Ratio Lower Upper

105 100

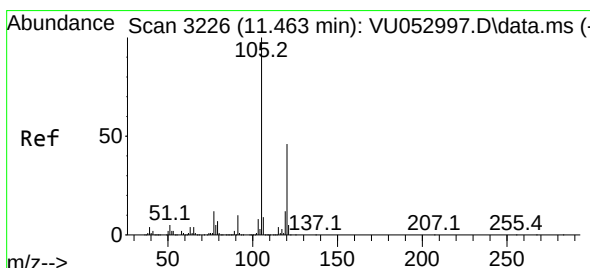
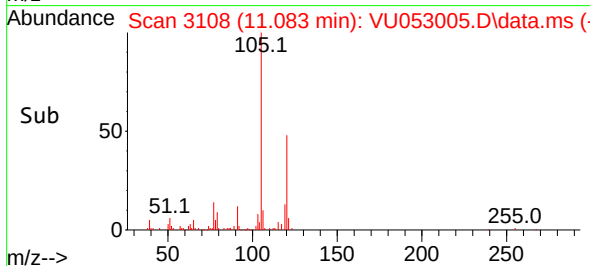
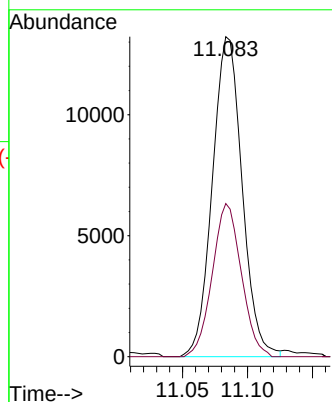
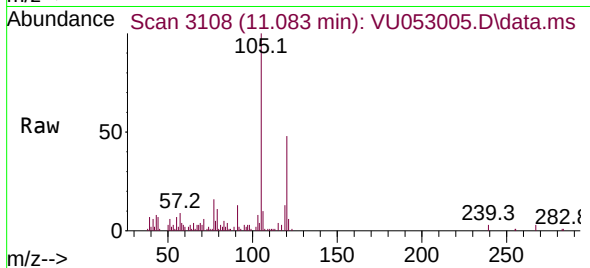
120 46.6 40.4 60.6

Manual Integrations

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Reviewed By :John Carlone 02/09/2023

Supervised By :Mahesh Dadoda 02/09/2023



#63

1,2,4-Trimethylbenzene

Concen: 2.366 ug/L

RT: 11.463 min Scan# 3226

Delta R.T. -0.000 min

Lab File: VU053005.D

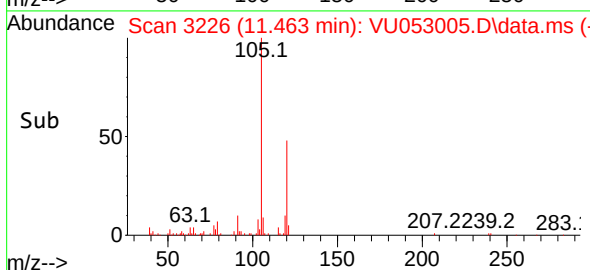
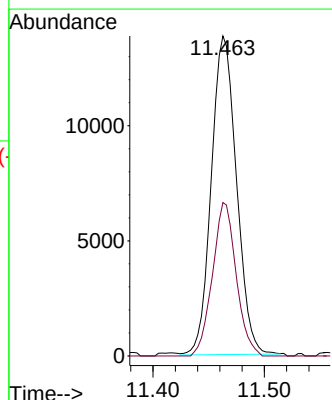
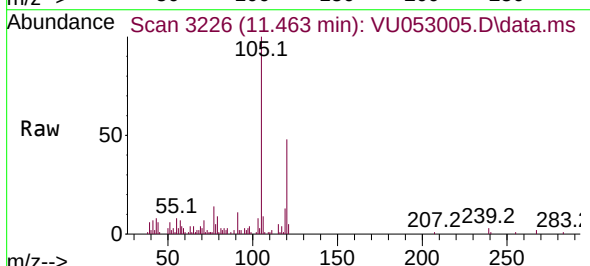
Acq: 08 Feb 2023 17:35

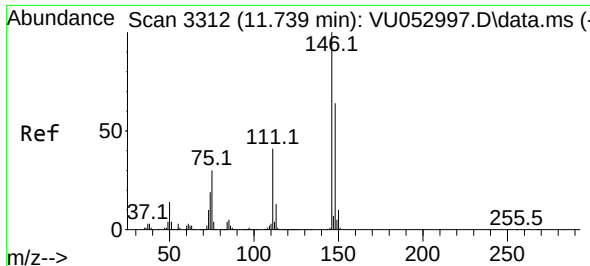
Tgt Ion:105 Resp: 21736

Ion Ratio Lower Upper

105 100

120 45.2 38.1 57.1





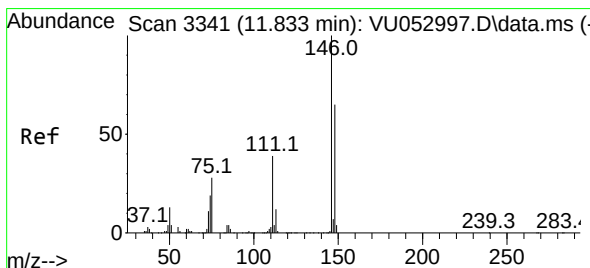
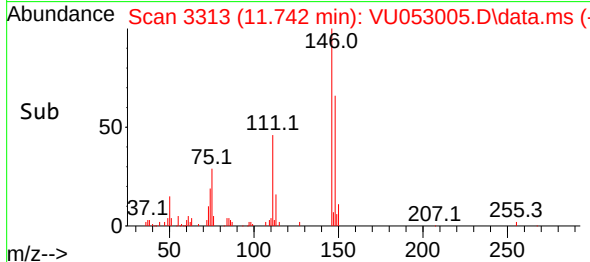
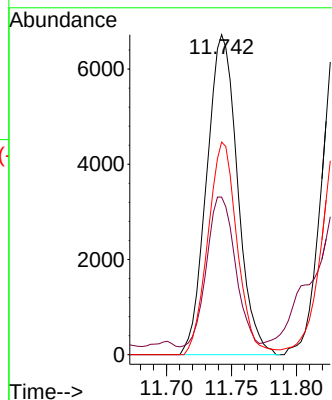
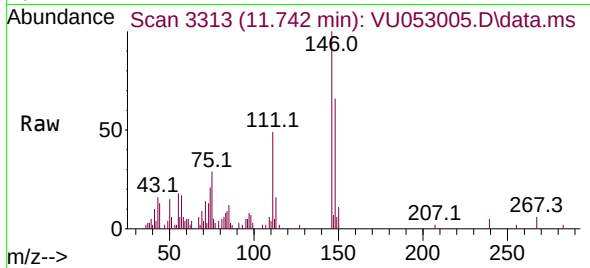
#64
1,3-Dichlorobenzene
Concen: 2.295 ug/L
RT: 11.742 min Scan# 3312
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument :
MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT1-2023-02

Tgt Ion:146 Resp: 1109
Ion Ratio Lower Upper
146 100
111 49.3 27.8 51.6
148 66.5 45.5 84.5

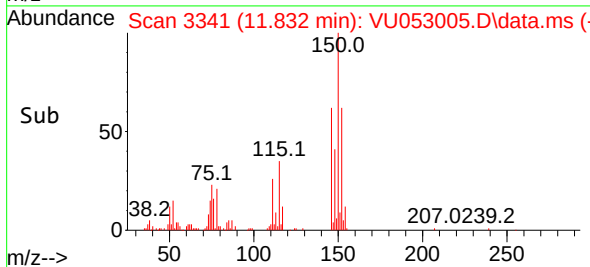
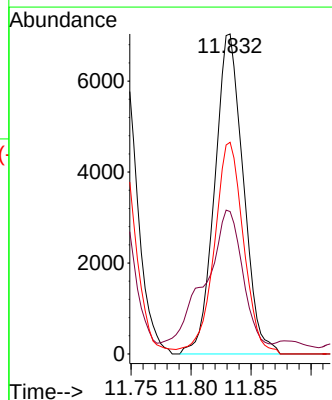
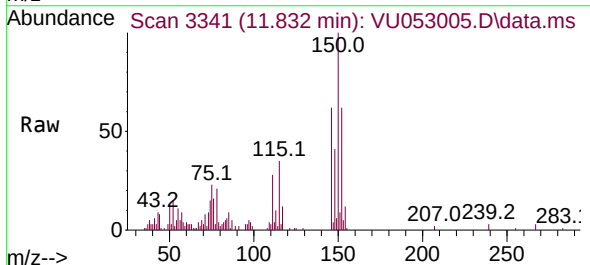
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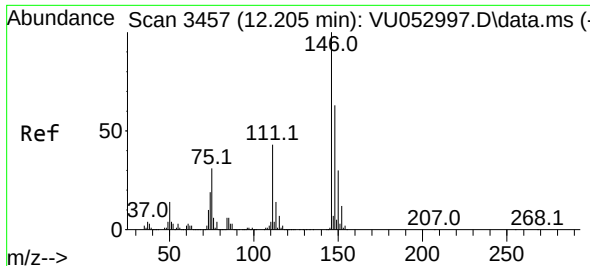
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#65
1,4-Dichlorobenzene
Concen: 2.391 ug/L
RT: 11.832 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion:146 Resp: 11623
Ion Ratio Lower Upper
146 100
111 44.5 26.7 49.7
148 66.2 45.6 84.6





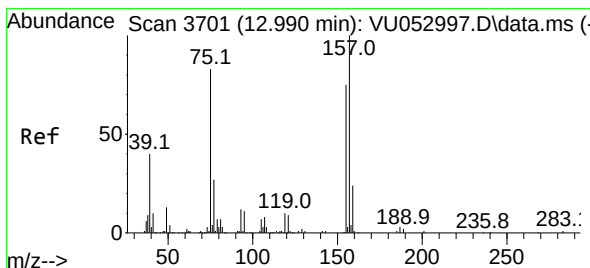
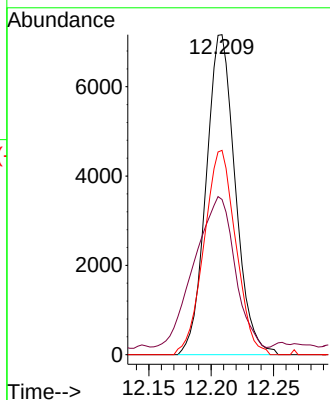
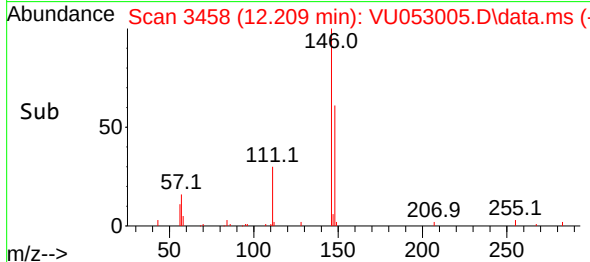
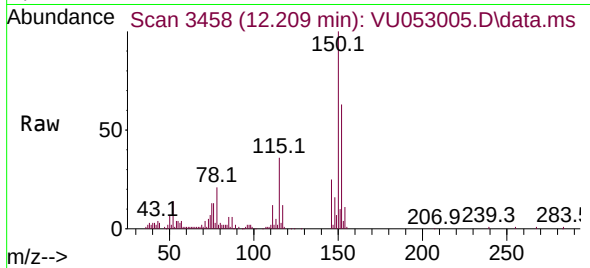
#67
1,2-Dichlorobenzene
Concen: 2.406 ug/L
RT: 12.209 min Scan# 3457
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument : MSVOA_U
ClientSampleId : MDL-MED-SOIL-QT1-2023-02

Tgt Ion:146 Resp: 1167
Ion Ratio Lower Upper
146 100
111 48.5 33.2 49.8
148 63.8 50.2 75.4

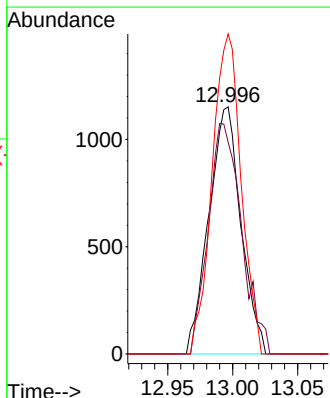
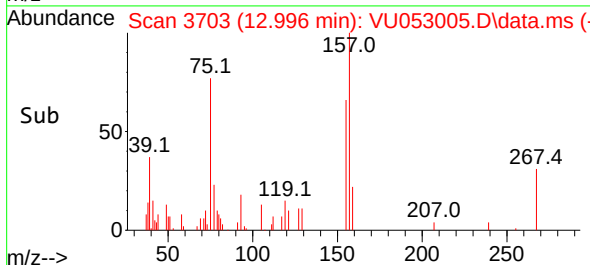
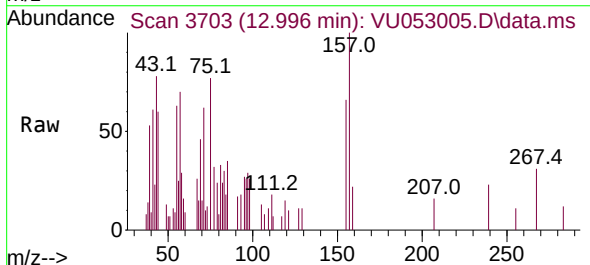
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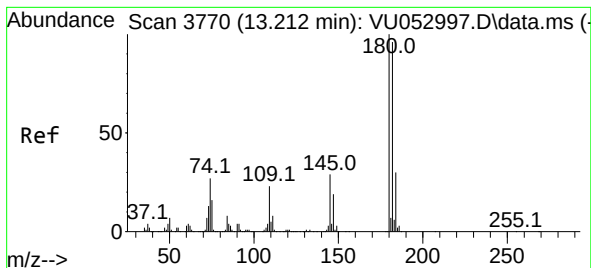
Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#68
1,2-Dibromo-3-chloropropane
Concen: 2.538 ug/L
RT: 12.996 min Scan# 3703
Delta R.T. 0.006 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion: 75 Resp: 1973
Ion Ratio Lower Upper
75 100
155 85.8 69.2 103.8
157 129.5 91.2 136.8





#69

1,3,5-Trichlorobenzene

Concen: 2.227 ug/L

RT: 13.218 min Scan# 31

Delta R.T. 0.006 min

Lab File: VU053005.D

Acq: 08 Feb 2023 17:35

Instrument :

MSVOA_U

ClientSampleId :

MDL-MED-SOIL-QT1-2023-02

Tgt Ion:180 Resp: 8339

Ion Ratio Lower Upper

180 100

182 91.2 77.0 115.6

184 29.7 24.4 36.6

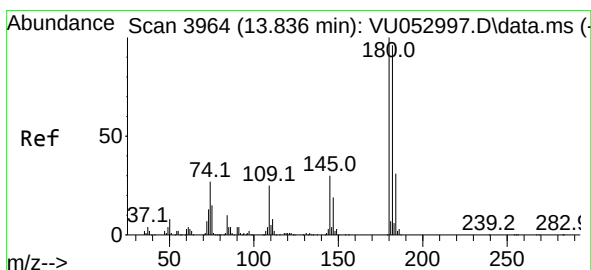
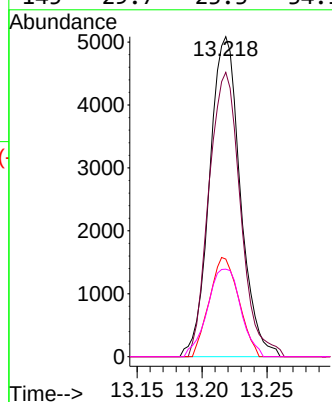
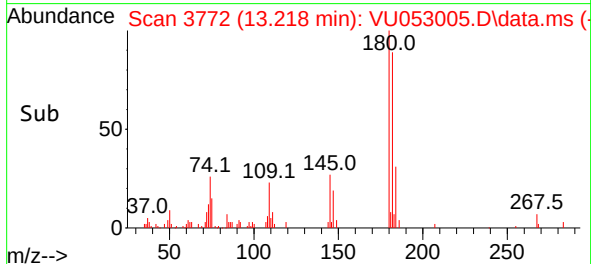
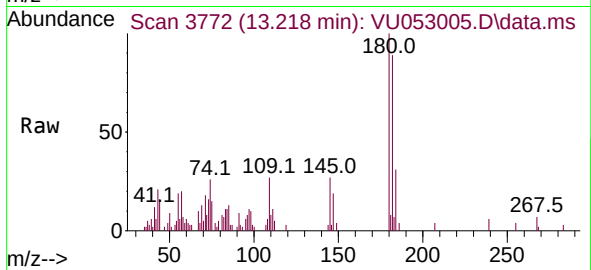
145 29.7 23.3 34.9

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Reviewed By :John Carlone 02/09/2023

Supervised By :Mahesh Dadoda 02/09/2023



#70

1,2,4-trichlorobenzene

Concen: 2.560 ug/L

RT: 13.839 min Scan# 3965

Delta R.T. 0.003 min

Lab File: VU053005.D

Acq: 08 Feb 2023 17:35

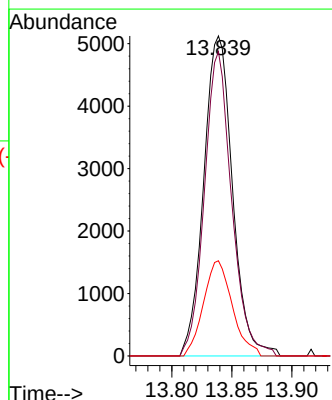
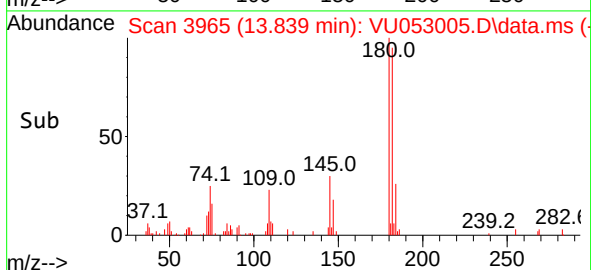
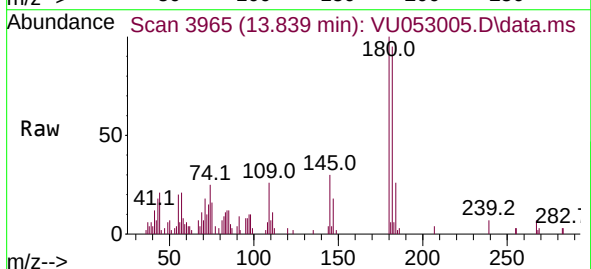
Tgt Ion:180 Resp: 8567

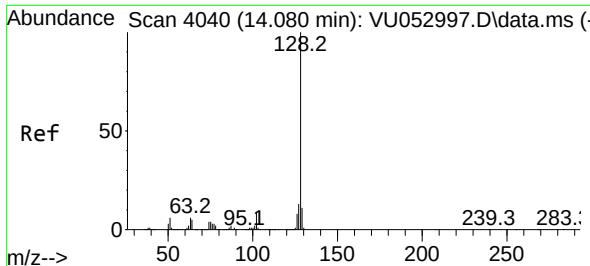
Ion Ratio Lower Upper

180 100

182 89.8 78.2 117.2

145 29.7 23.4 35.2





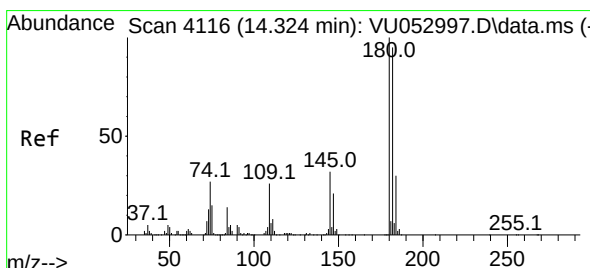
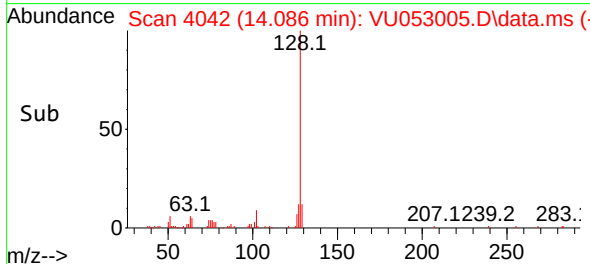
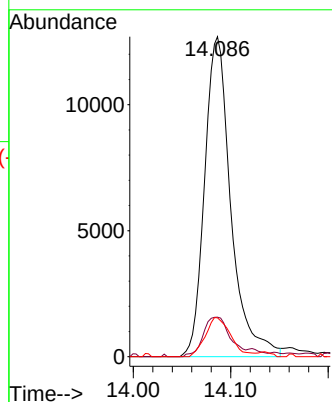
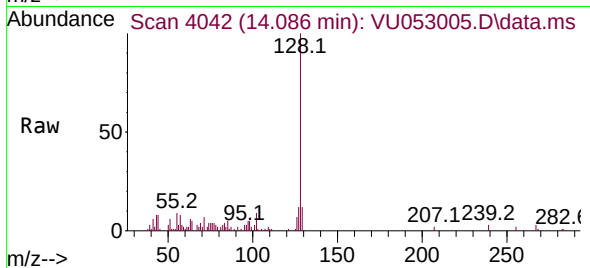
#71
Naphthalene
Concen: 2.400 ug/L
RT: 14.086 min Scan# 4040
Delta R.T. 0.006 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Instrument : MSVOA_U
ClientSampleId :
MDL-MED-SOIL-QT1-2023-02

Tgt Ion:128 Resp: 2380
Ion Ratio Lower Upper
128 100
127 12.6 10.3 15.5
129 11.9 8.8 13.2

Manual Integrations
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Reviewed By :John Carlone 02/09/2023
Supervised By :Mahesh Dadoda 02/09/2023



#72
1,2,3-Trichlorobenzene
Concen: 2.444 ug/L
RT: 14.328 min Scan# 4117
Delta R.T. 0.003 min
Lab File: VU053005.D
Acq: 08 Feb 2023 17:35

Tgt Ion:180 Resp: 8014
Ion Ratio Lower Upper
180 100
182 91.1 77.5 116.3
145 31.8 24.2 36.4

