

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052423\
 Data File : VN077873.D
 Acq On : 25 May 2023 01:48
 Operator : JC\MD
 Sample : 02897-01
 Misc : 5.03g/10mL/100uL/5.0mL/MSVOA_N/MEOH
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OILY-SOLIDS-0523

Manual Integrations
 APPROVED

Reviewed By :John Carlone 05/25/2023
 Supervised By :Mahesh Dadoda 05/25/2023

Quant Time: May 25 05:01:17 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	396669	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	697099	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	646906	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	337327	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	245100	41.296	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	82.600%		
35) Dibromofluoromethane	8.171	113	213792	47.032	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.060%		
50) Toluene-d8	10.571	98	864889	49.431	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.860%		
62) 4-Bromofluorobenzene	12.853	95	329558	53.331	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	106.660%		
Target Compounds						
					Qvalue	
31) Cyclohexane	8.224	56	19691	2.441	ug/l #	67
39) Methylcyclohexane	9.600	83	33123	4.069	ug/l #	76
44) Trichloroethene	9.359	130	5275	1.062	ug/l	97
52) Toluene	10.641	92	13532	1.108	ug/l	96
64) Tetrachloroethene	11.118	164	30041	6.640	ug/l	93
67) Ethyl Benzene	11.971	91	66197	2.634	ug/l	97
68) m/p-Xylenes	12.077	106	119215	12.519	ug/l	98
69) o-Xylene	12.412	106	45286	4.836	ug/l	100
73) Isopropylbenzene	12.712	105	93408	3.212	ug/l	77
78) n-propylbenzene	13.041	91	150821	4.400	ug/l	98
80) 1,3,5-Trimethylbenzene	13.182	105	373660	15.290	ug/l	94
84) 1,2,4-Trimethylbenzene	13.488	105	903903	37.608	ug/l #	32
86) p-Isopropyltoluene	13.723	119	27998387m	1158.276	ug/l	
89) n-Butylbenzene	14.065	91	238231	10.715	ug/l #	81
95) Naphthalene	15.647	128	11753601	509.702	ug/l	98

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

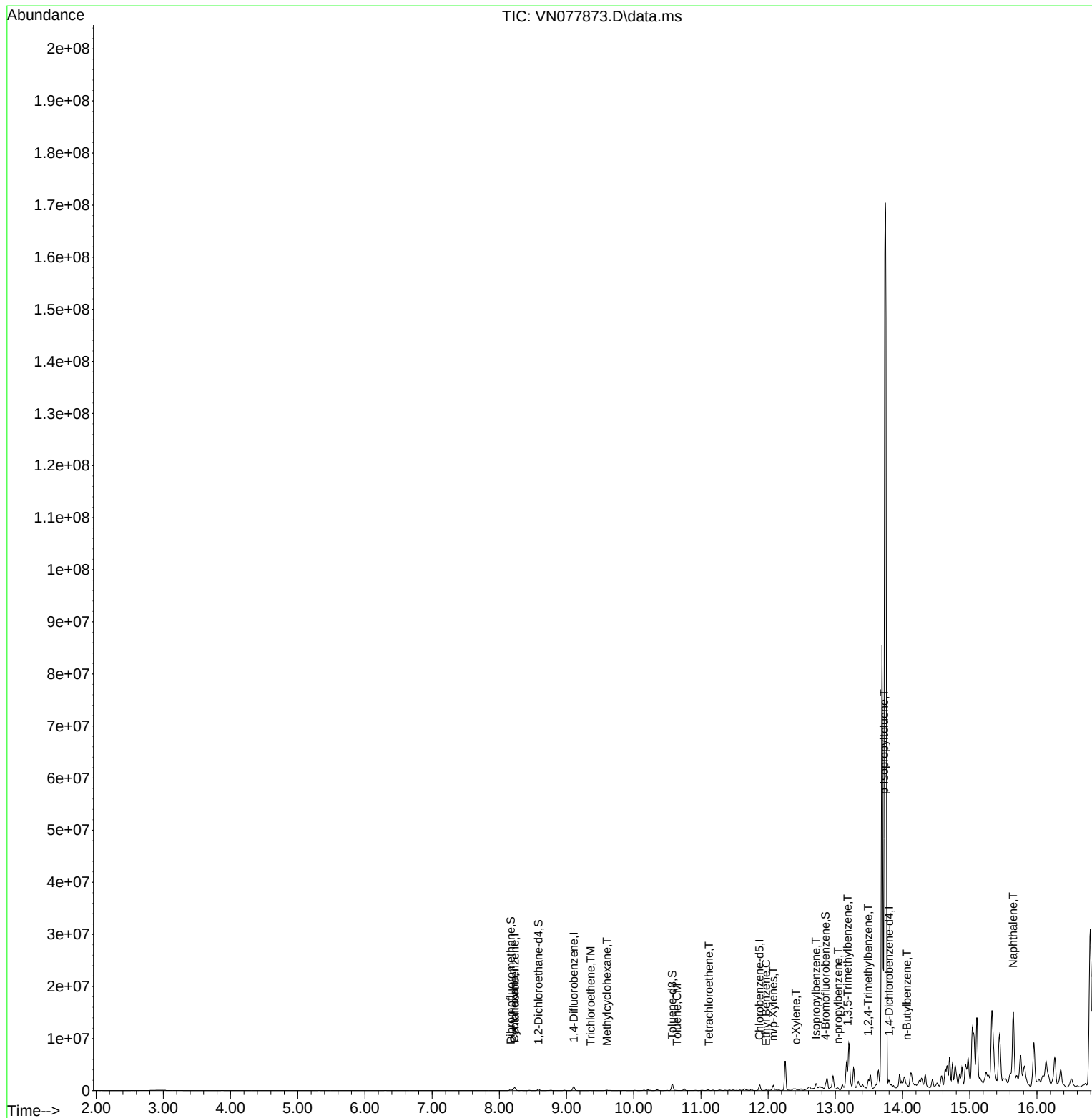
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052423\
Data File : VN077873.D
Acq On : 25 May 2023 01:48
Operator : JC\MD
Sample : 02897-01
Misc : 5.03g/10mL/100uL/5.0mL/MSVOA_N/MEOH
ALS Vial : 31 Sample Multiplier: 1

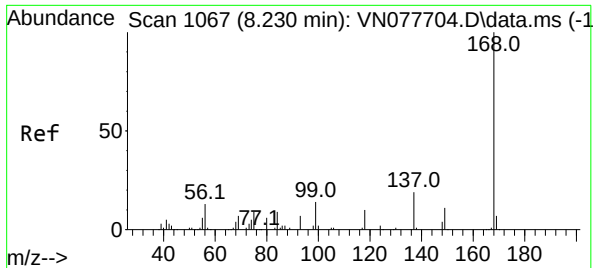
Instrument :
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OILY-SOLIDS-0523

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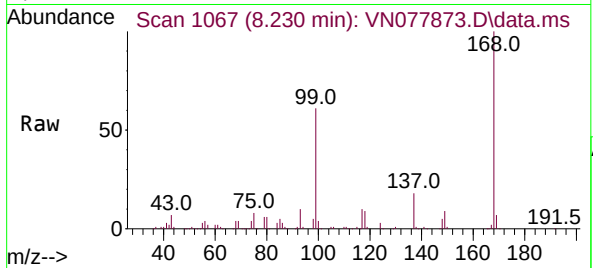
Quant Time: May 25 05:01:17 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
Quant Title : SW846 8260
QLast Update : Tue May 16 04:07:42 2023
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

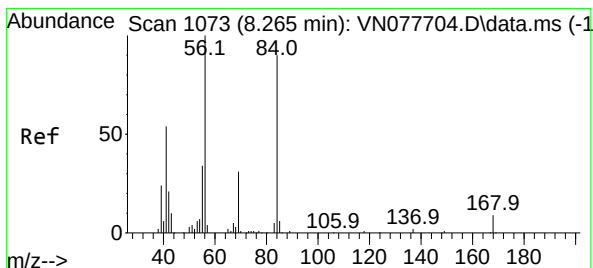
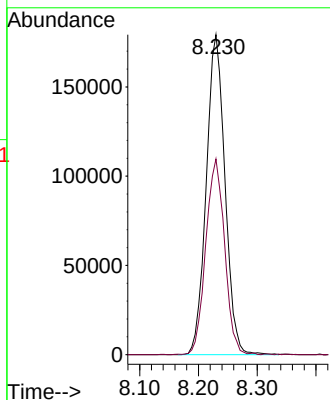
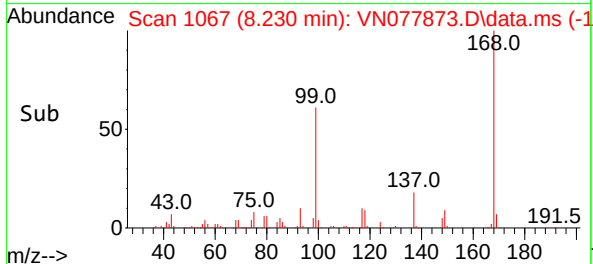
Instrument :
MSVOA_N
ClientSampleId :
OILY-SOLIDS-0523



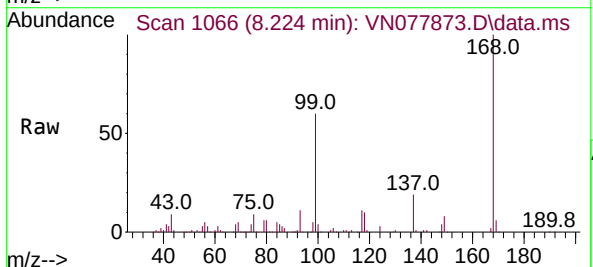
Tgt Ion:168 Resp: 396669
Ion Ratio Lower Upper
168 100
99 61.0 53.0 79.6

Manual Integrations
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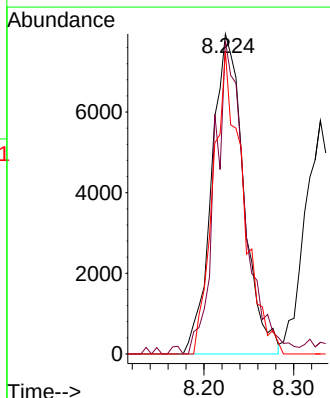
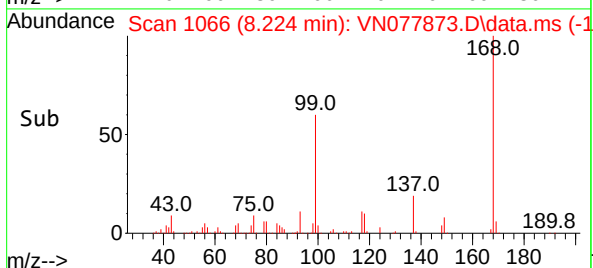
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023

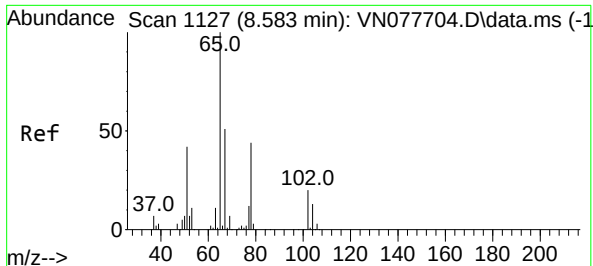


#31
Cyclohexane
Concen: 2.441 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48



Tgt Ion: 56 Resp: 19691
Ion Ratio Lower Upper
56 100
69 95.4 26.8 40.2#
84 94.5 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 41.296 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.001 min

Lab File: VN077873.D

Acq: 25 May 2023 01:48

Instrument :

MSVOA_N

ClientSampleId :

OILY-SOLIDS-0523

Tgt Ion: 65 Resp: 245100

Ion Ratio Lower Upper

65 100

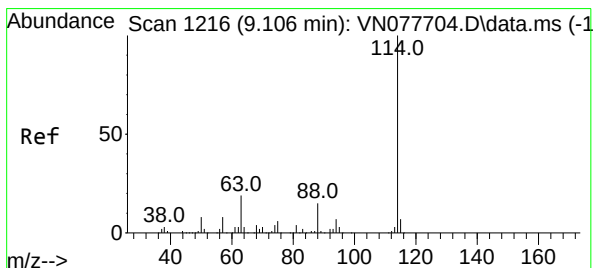
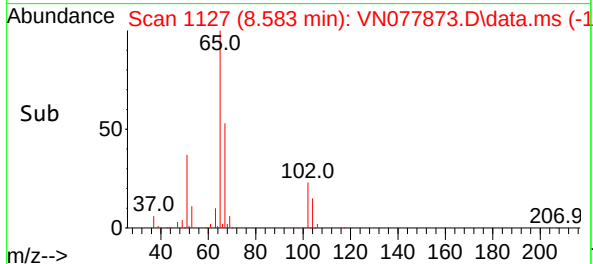
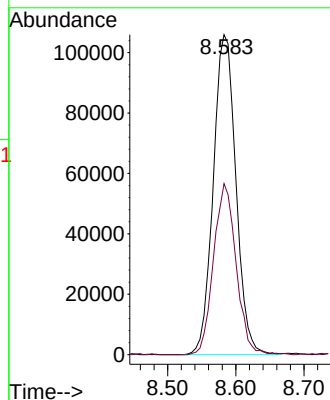
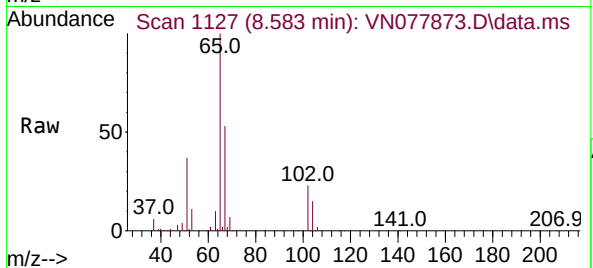
67 53.2 0.0 106.6

Manual Integrations

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Supervised By :Mahesh Dadoda 05/25/2023



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN077873.D

Acq: 25 May 2023 01:48

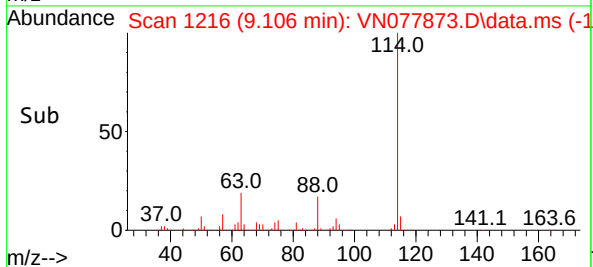
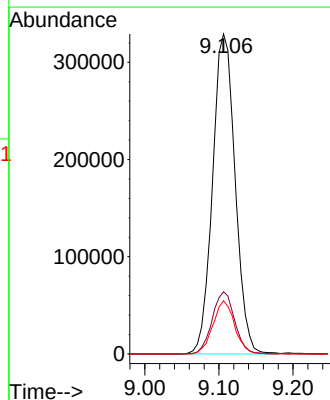
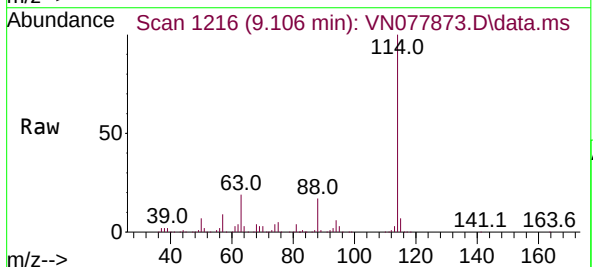
Tgt Ion:114 Resp: 697099

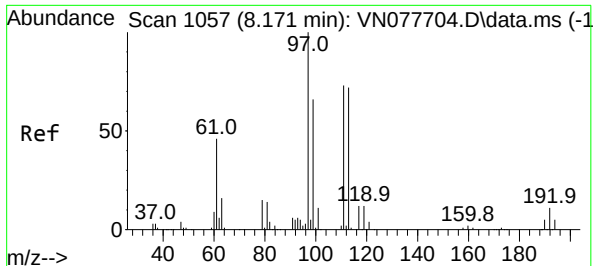
Ion Ratio Lower Upper

114 100

63 19.5 0.0 36.4

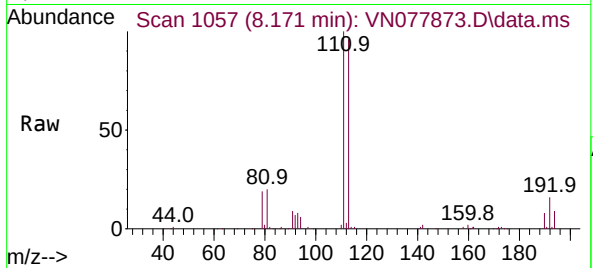
88 16.6 0.0 30.6





#35
Dibromofluoromethane
Concen: 47.032 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

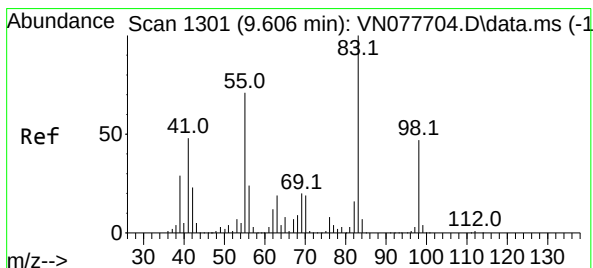
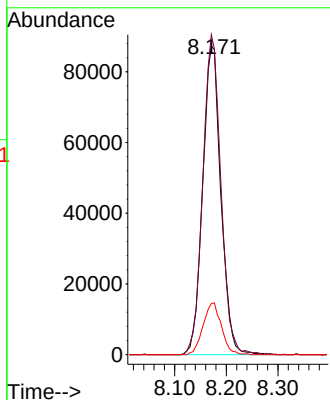
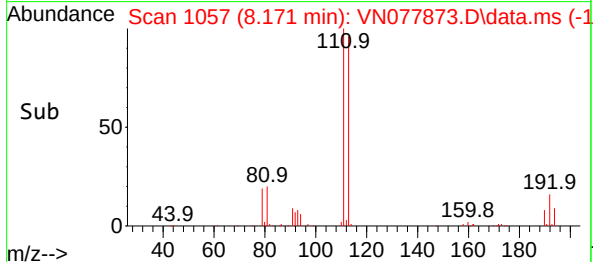
Instrument :
MSVOA_N
ClientSampleId :
OILY-SOLIDS-0523



Tgt Ion: 113 Resp: 213792
Ion Ratio Lower Upper
113 100
111 102.7 82.6 123.8
192 16.9 12.7 19.1

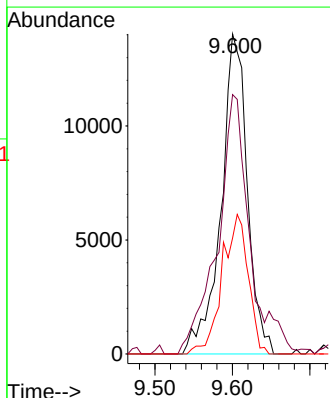
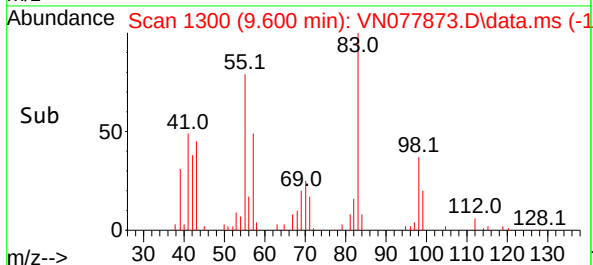
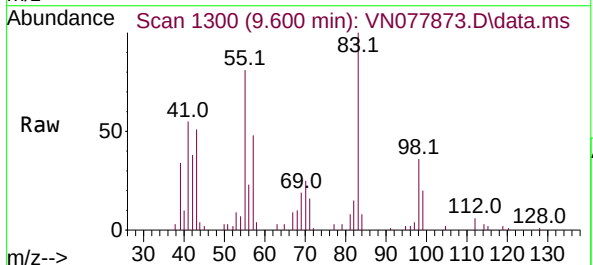
Manual Integrations
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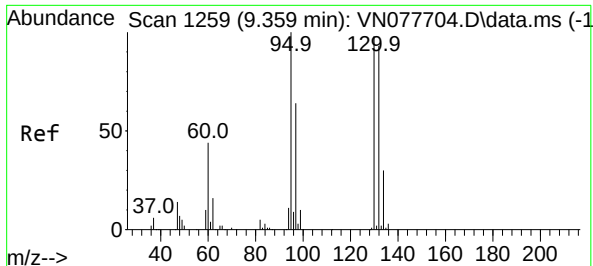
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#39
Methylcyclohexane
Concen: 4.069 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. -0.006 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

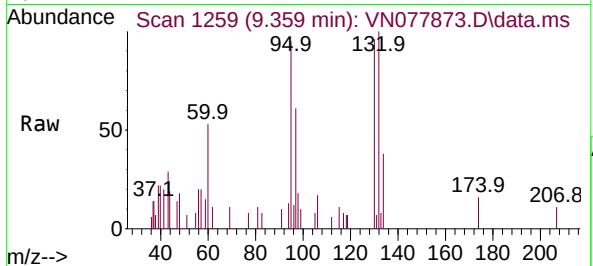
Tgt Ion: 83 Resp: 33123
Ion Ratio Lower Upper
83 100
55 81.0 49.1 73.7#
98 36.2 40.6 61.0#





#44
Trichloroethene
Concen: 1.062 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

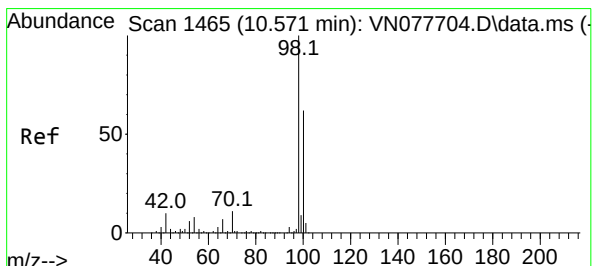
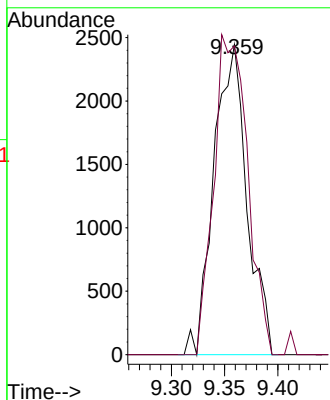
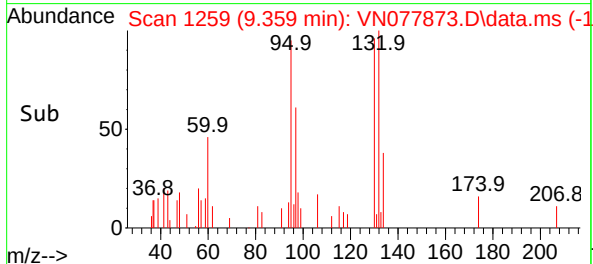
Instrument :
MSVOA_N
ClientSampleId :
OILY-SOLIDS-0523



Tgt Ion:130 Resp: 5275
Ion Ratio Lower Upper
130 100
95 99.5 0.0 204.6

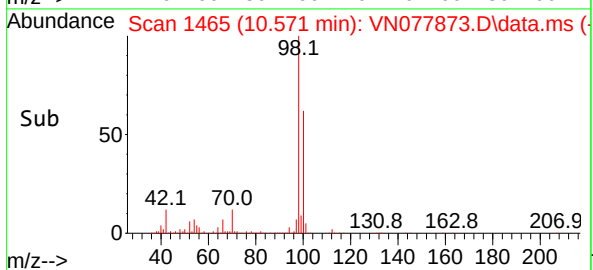
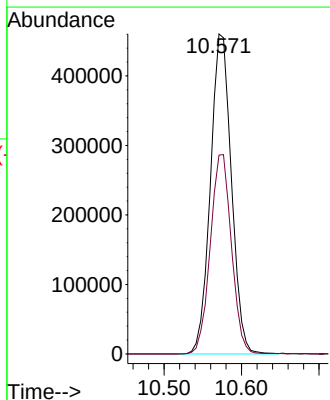
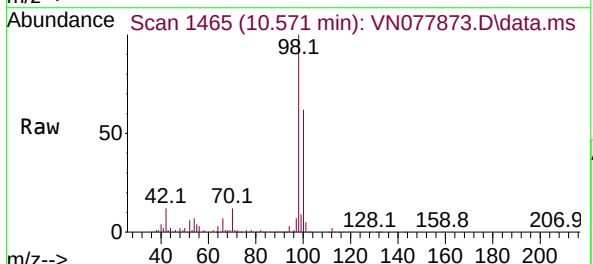
Manual Integrations
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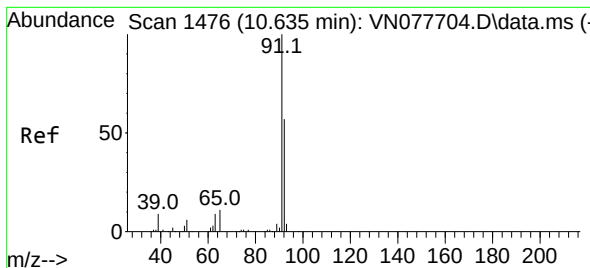
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#50
Toluene-d8
Concen: 49.431 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

Tgt Ion: 98 Resp: 864889
Ion Ratio Lower Upper
98 100
100 63.0 52.0 78.0





#52

Toluene

Concen: 1.108 ug/l

RT: 10.641 min Scan# 1476

Delta R.T. 0.006 min

Lab File: VN077873.D

Acq: 25 May 2023 01:48

Instrument :

MSVOA_N

ClientSampleId :

OILY-SOLIDS-0523

Tgt Ion: 92 Resp: 1353

Ion Ratio Lower Upper

92 100

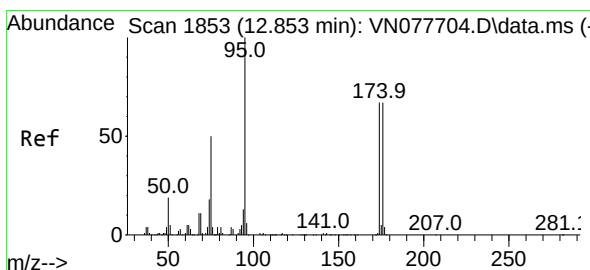
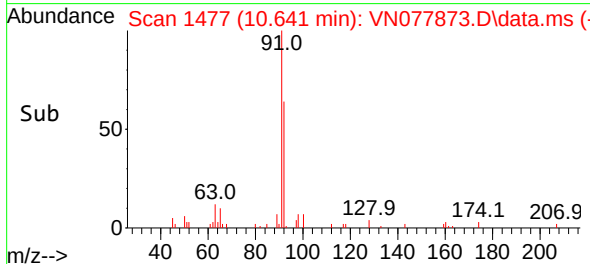
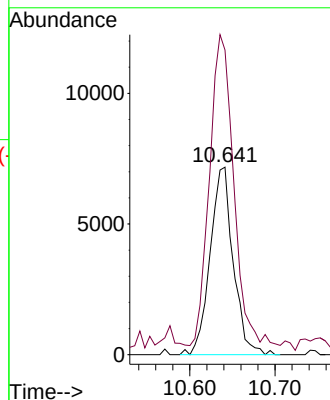
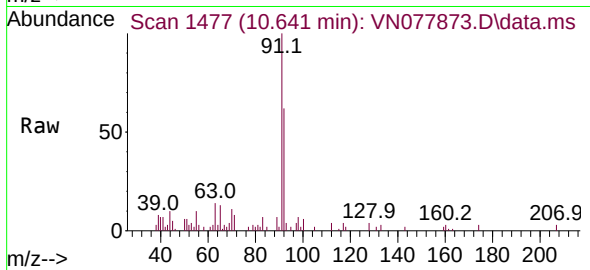
91 177.4 137.4 206.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 05/25/2023

Supervised By :Mahesh Dadoda 05/25/2023



#62

4-Bromofluorobenzene

Concen: 53.331 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VN077873.D

Acq: 25 May 2023 01:48

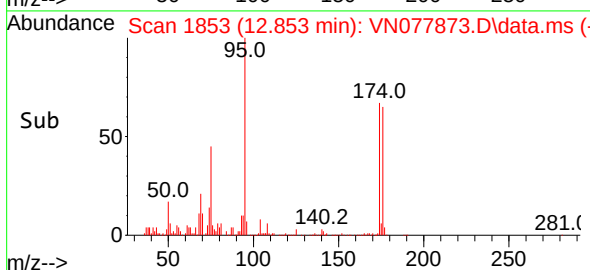
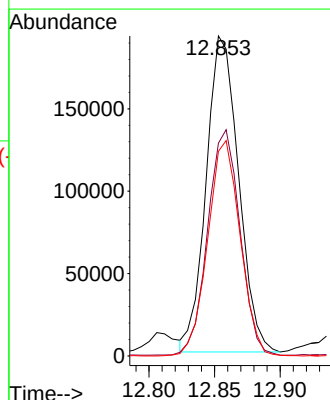
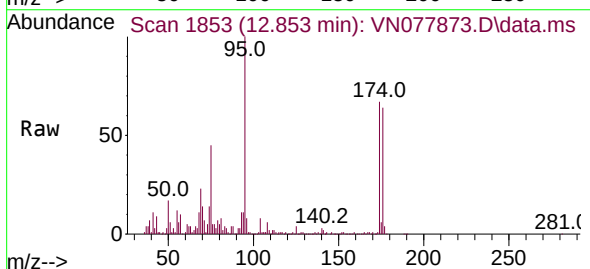
Tgt Ion: 95 Resp: 329558

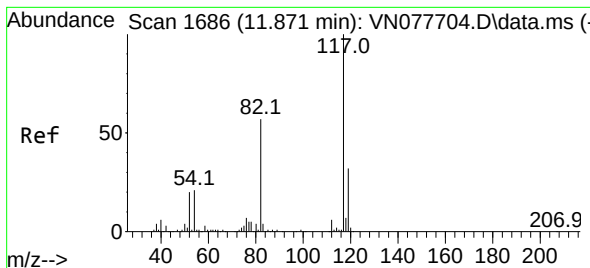
Ion Ratio Lower Upper

95 100

174 71.1 0.0 143.8

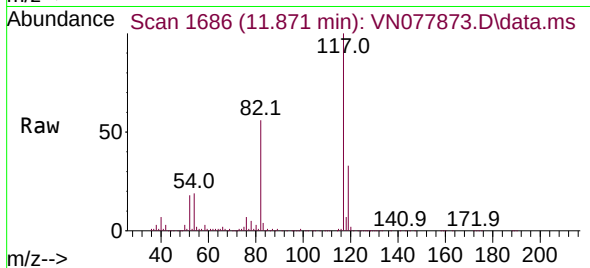
176 68.3 0.0 135.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 117
Delta R.T. 0.001 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

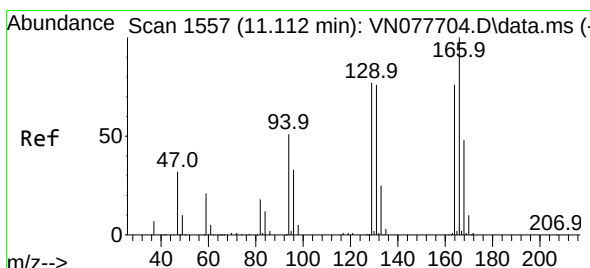
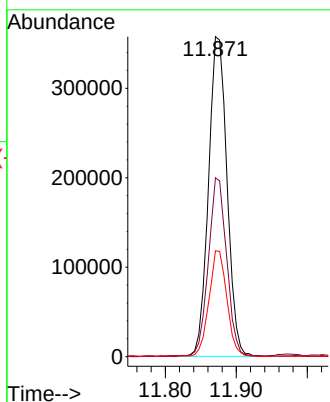
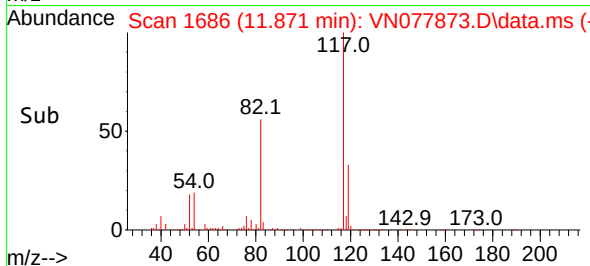
Instrument :
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OILY-SOLIDS-0523



Tgt Ion:117 Resp: 646900
Ion Ratio Lower Upper
117 100
82 55.7 44.0 66.0
119 32.9 25.6 38.4

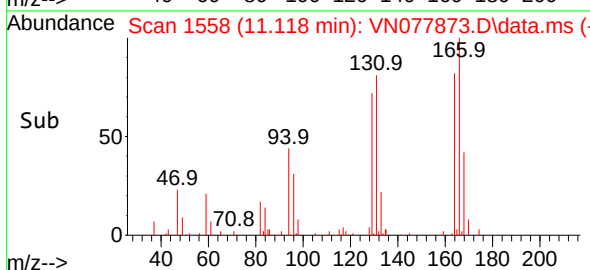
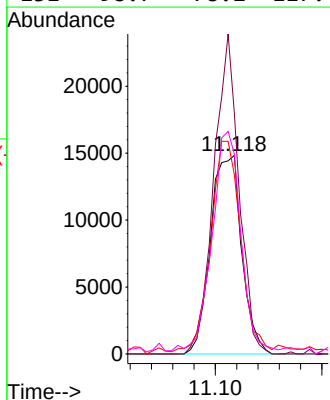
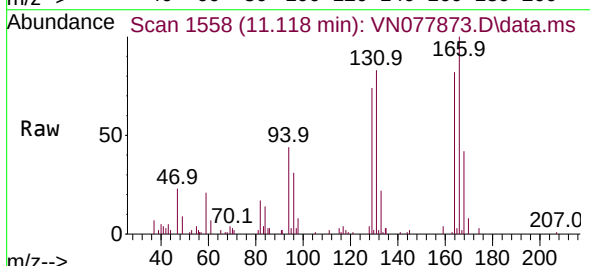
Manual Integrations
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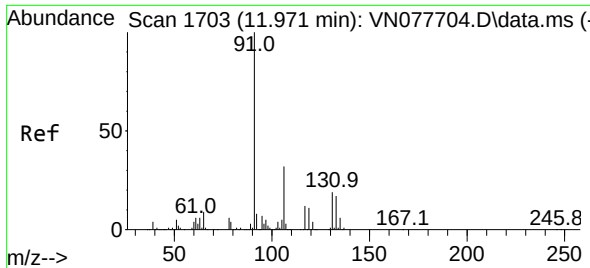
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#64
Tetrachloroethene
Concen: 6.640 ug/l
RT: 11.118 min Scan# 1558
Delta R.T. 0.006 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

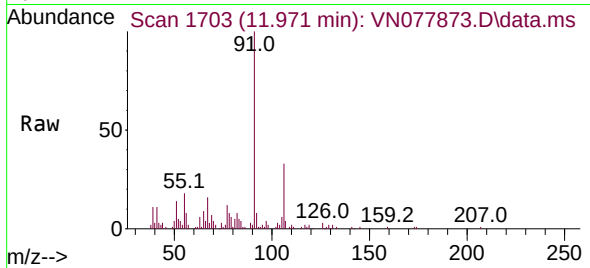
Tgt Ion:164 Resp: 30041
Ion Ratio Lower Upper
164 100
166 121.3 101.4 152.0
129 87.7 82.4 123.6
131 98.7 78.2 117.4





#67
Ethyl Benzene
Concen: 2.634 ug/l
RT: 11.971 min Scan# 1703
Delta R.T. 0.001 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

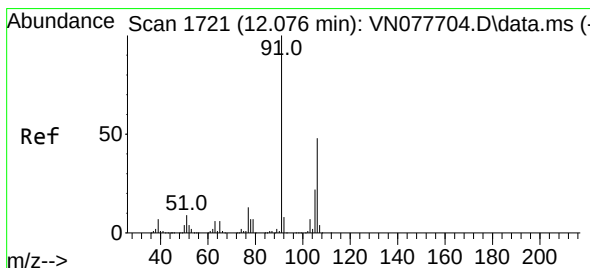
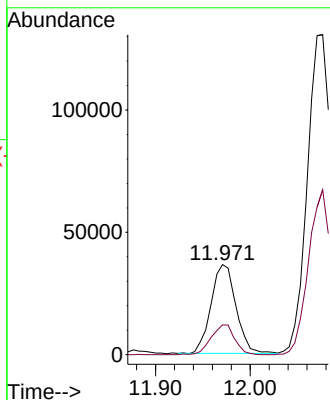
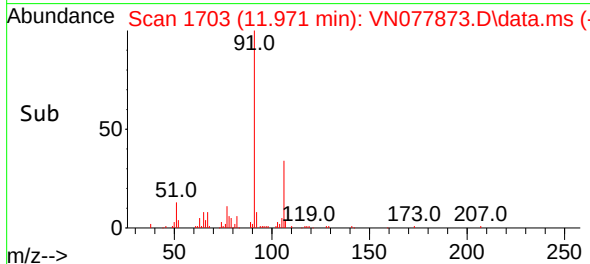
Instrument :
MSVOA_N
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OILY-SOLIDS-0523



Tgt Ion: 91 Resp: 6619
Ion Ratio Lower Upper
91 100
106 33.6 25.6 38.4

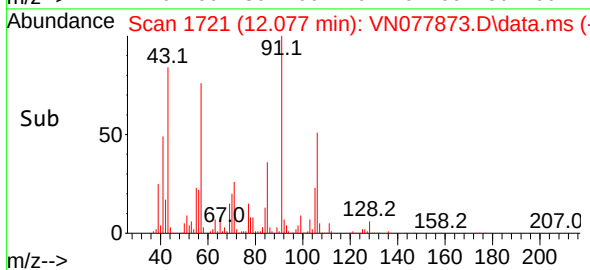
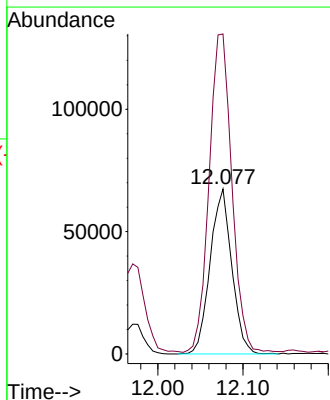
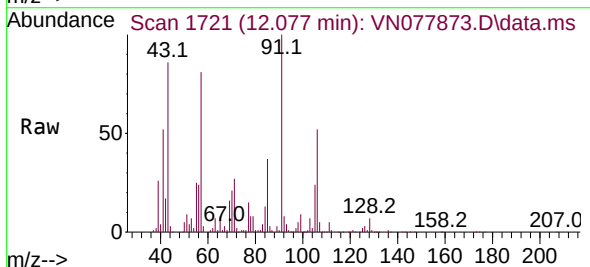
Manual Integrations
APPROVED

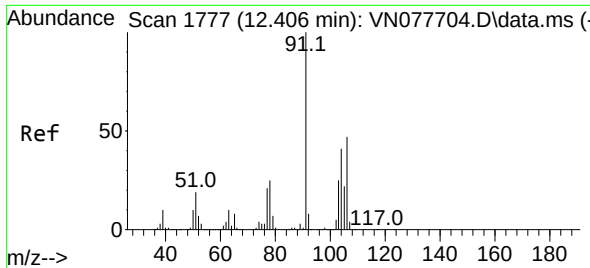
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#68
m/p-Xylenes
Concen: 12.519 ug/l
RT: 12.077 min Scan# 1721
Delta R.T. 0.001 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

Tgt Ion:106 Resp: 119215
Ion Ratio Lower Upper
106 100
91 202.4 159.6 239.4





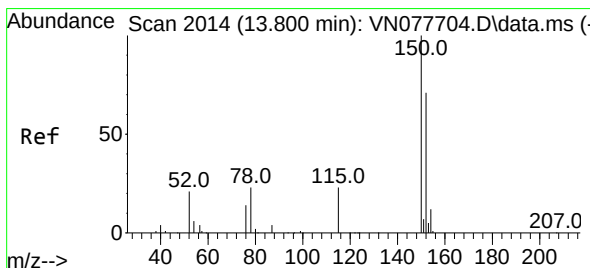
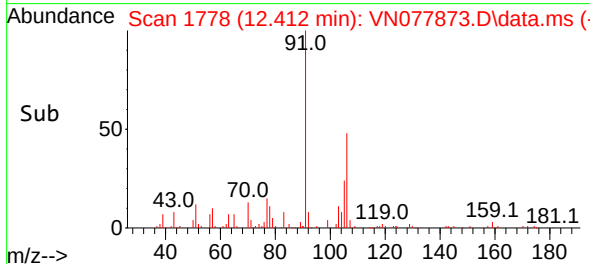
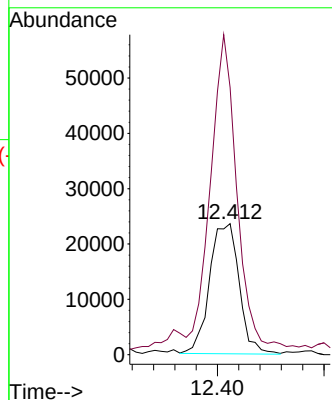
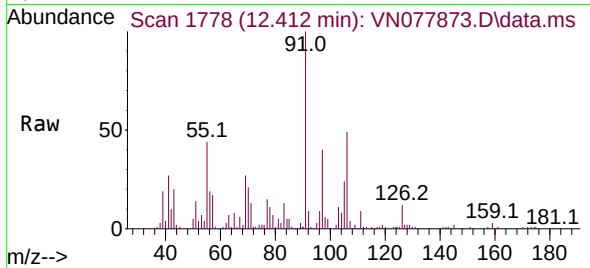
#69
o-Xylene
Concen: 4.836 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

Instrument :
MSVOA_N
ClientSampleId :
OILY-SOLIDS-0523

Tgt Ion:106 Resp: 45280
Ion Ratio Lower Upper
106 100
91 211.0 105.2 315.5

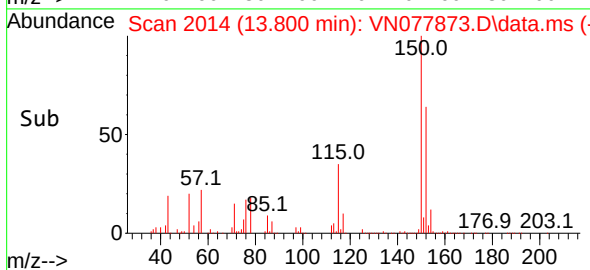
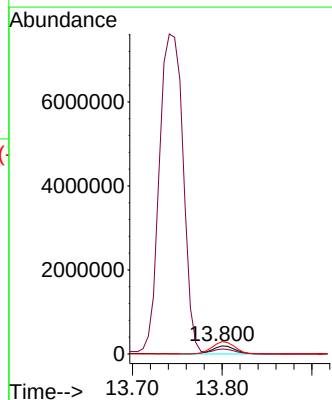
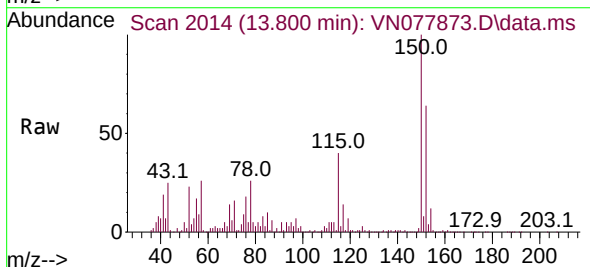
Manual Integrations
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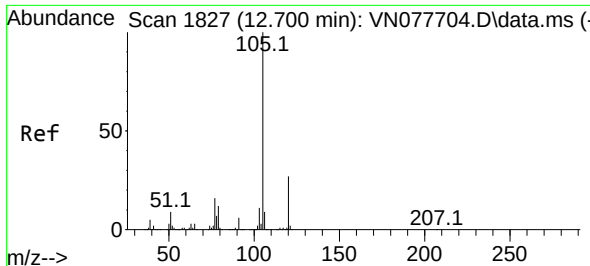
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

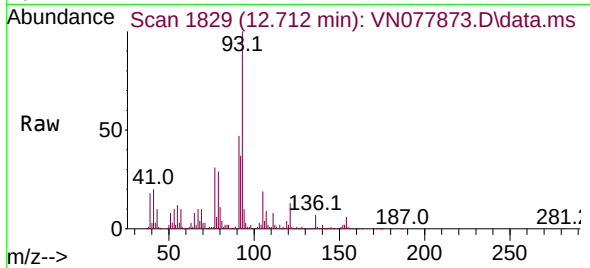
Tgt Ion:152 Resp: 337327
Ion Ratio Lower Upper
152 100
115 0.0 32.3 96.8#
150 152.5 0.0 355.8





#73
Isopropylbenzene
Concen: 3.212 ug/l
RT: 12.712 min Scan# 1829
Delta R.T. 0.012 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

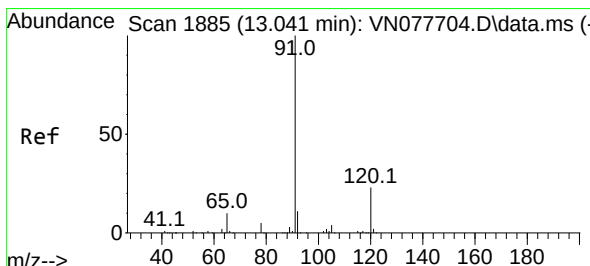
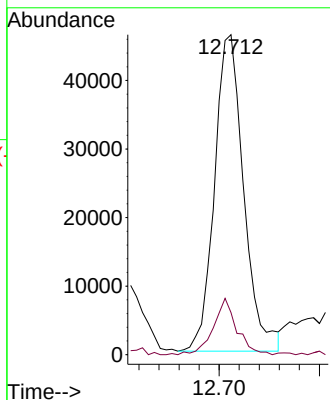
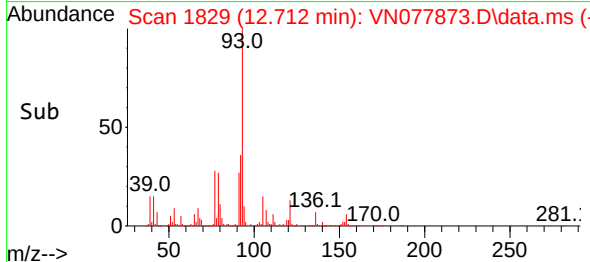
Instrument :
MSVOA_N
ClientSampleId :
OILY-SOLIDS-0523



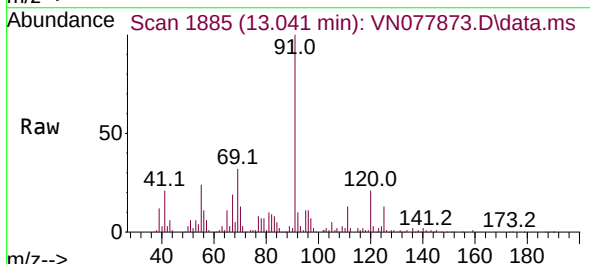
Tgt Ion:105 Resp: 93408
Ion Ratio Lower Upper
105 100
120 14.3 13.1 39.1

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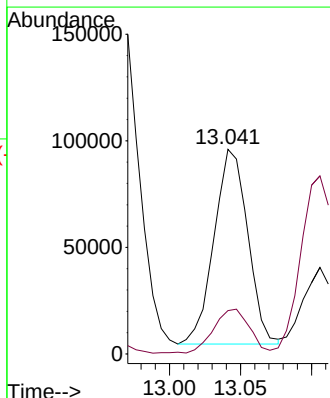
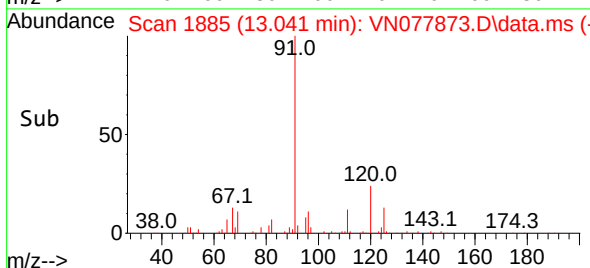
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023

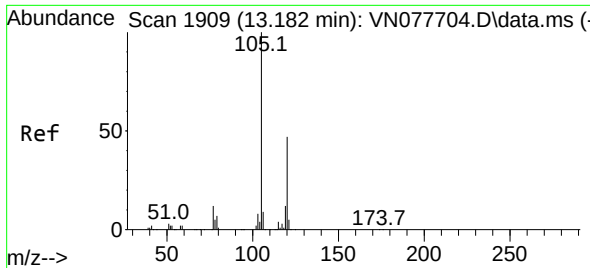


#78
n-propylbenzene
Concen: 4.400 ug/l
RT: 13.041 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48



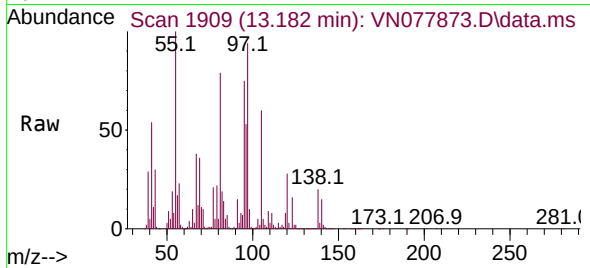
Tgt Ion: 91 Resp: 150821
Ion Ratio Lower Upper
91 100
120 24.0 11.5 34.4





#80
1,3,5-Trimethylbenzene
Concen: 15.290 ug/l
RT: 13.182 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

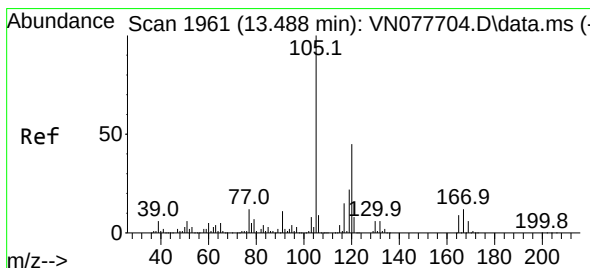
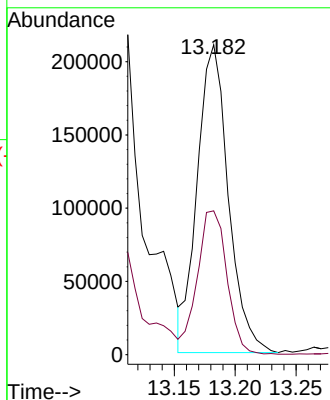
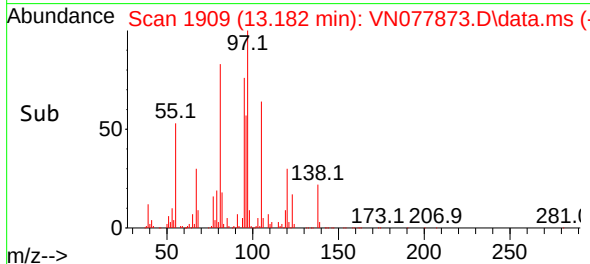
Instrument :
MSVOA_N
ClientSampleId :
OILY-SOLIDS-0523



Tgt Ion:105 Resp: 373660
Ion Ratio Lower Upper
105 100
120 44.3 24.1 72.3

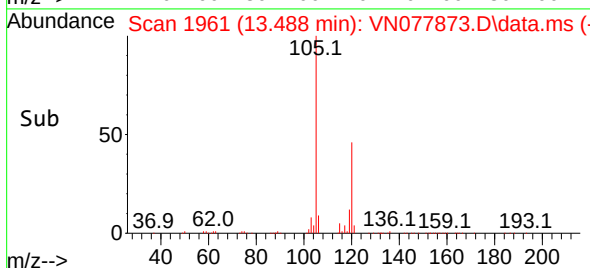
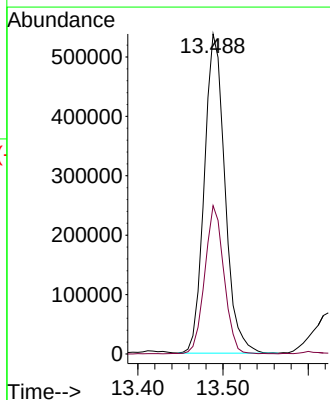
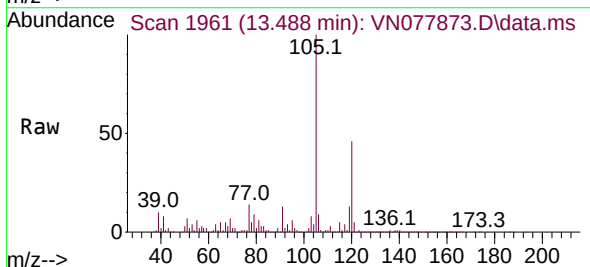
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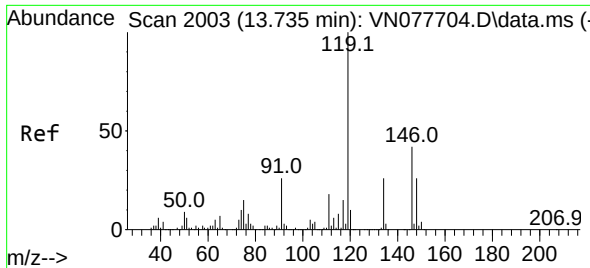
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#84
1,2,4-Trimethylbenzene
Concen: 37.608 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.000 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

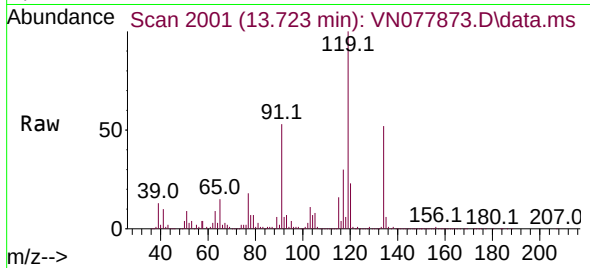
Tgt Ion:105 Resp: 903903
Ion Ratio Lower Upper
105 100
120 0.0 22.0 66.0#





#86
p-Isopropyltoluene
Concen: 1158.276 ug/l m
RT: 13.723 min Scan# 2001
Delta R.T. -0.012 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

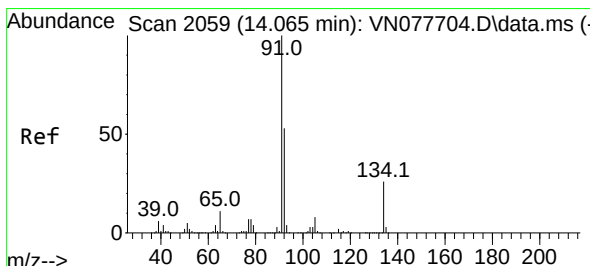
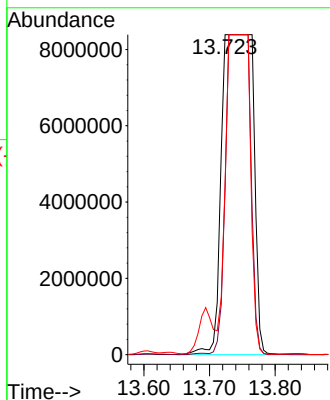
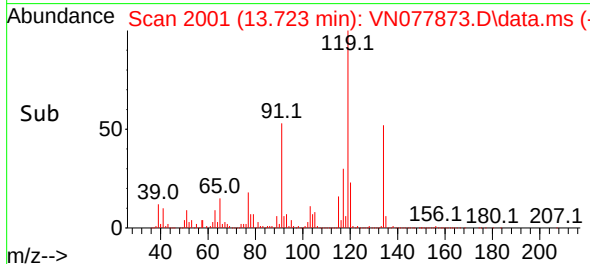
Instrument :
MSVOA_N
ClientSampleId :
OILY-SOLIDS-0523



Tgt Ion: 119 Resp: 2799838
Ion Ratio Lower Upper
119 100
134 0.0 12.6 37.8
91 1.9 12.4 37.2

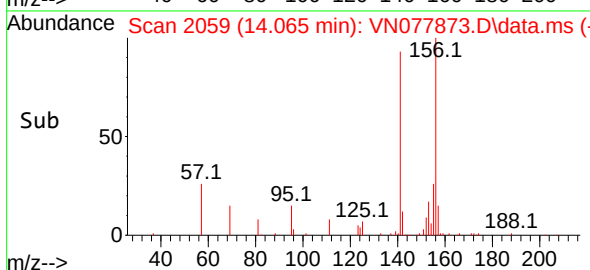
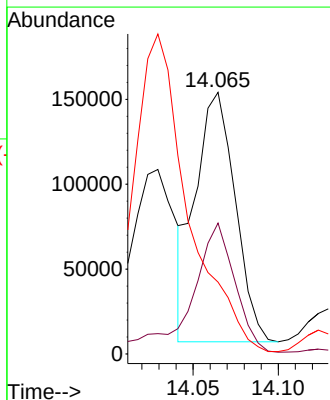
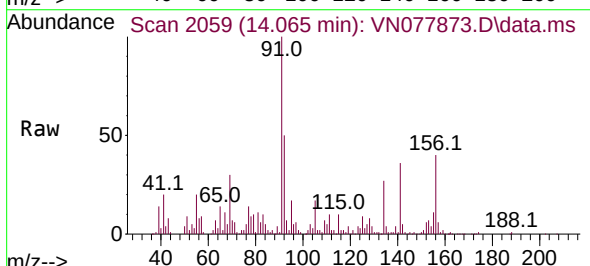
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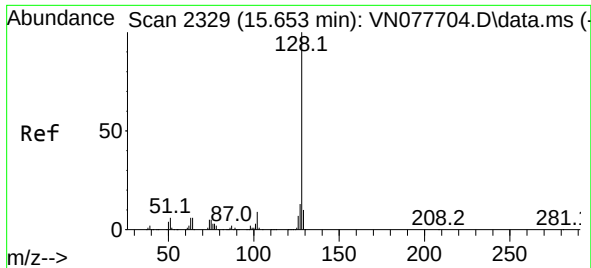
Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023



#89
n-Butylbenzene
Concen: 10.715 ug/l
RT: 14.065 min Scan# 2059
Delta R.T. 0.001 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

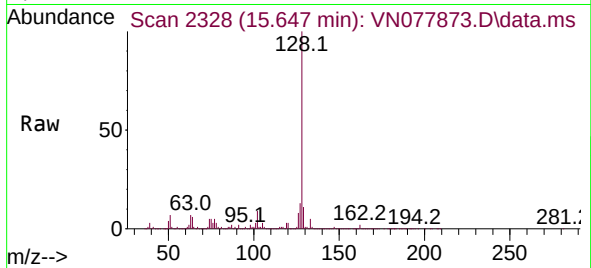
Tgt Ion: 91 Resp: 238231
Ion Ratio Lower Upper
91 100
92 55.4 26.4 79.0
134 0.0 12.6 37.6





#95
Naphthalene
Concen: 509.702 ug/l
RT: 15.647 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN077873.D
Acq: 25 May 2023 01:48

Instrument :
MSVOA_N
ClientSampleId :
OILY-SOLIDS-0523



Tgt Ion:128 Resp:1175360
Ion Ratio Lower Upper
128 100
127 13.4 10.0 15.0
129 11.7 8.7 13.1

Manual Integrations
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Reviewed By :John Carlone 05/25/2023
Supervised By :Mahesh Dadoda 05/25/2023

