

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY080923\
 Data File : VY015011.D
 Acq On : 09 Aug 2023 17:29
 Operator : SY/MD
 Sample : 03941-03
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 DEAN-OILY-STONE

Quant Time: Aug 10 01:48:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y080723S.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 08 07:44:56 2023
 Response via : Initial Calibration

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

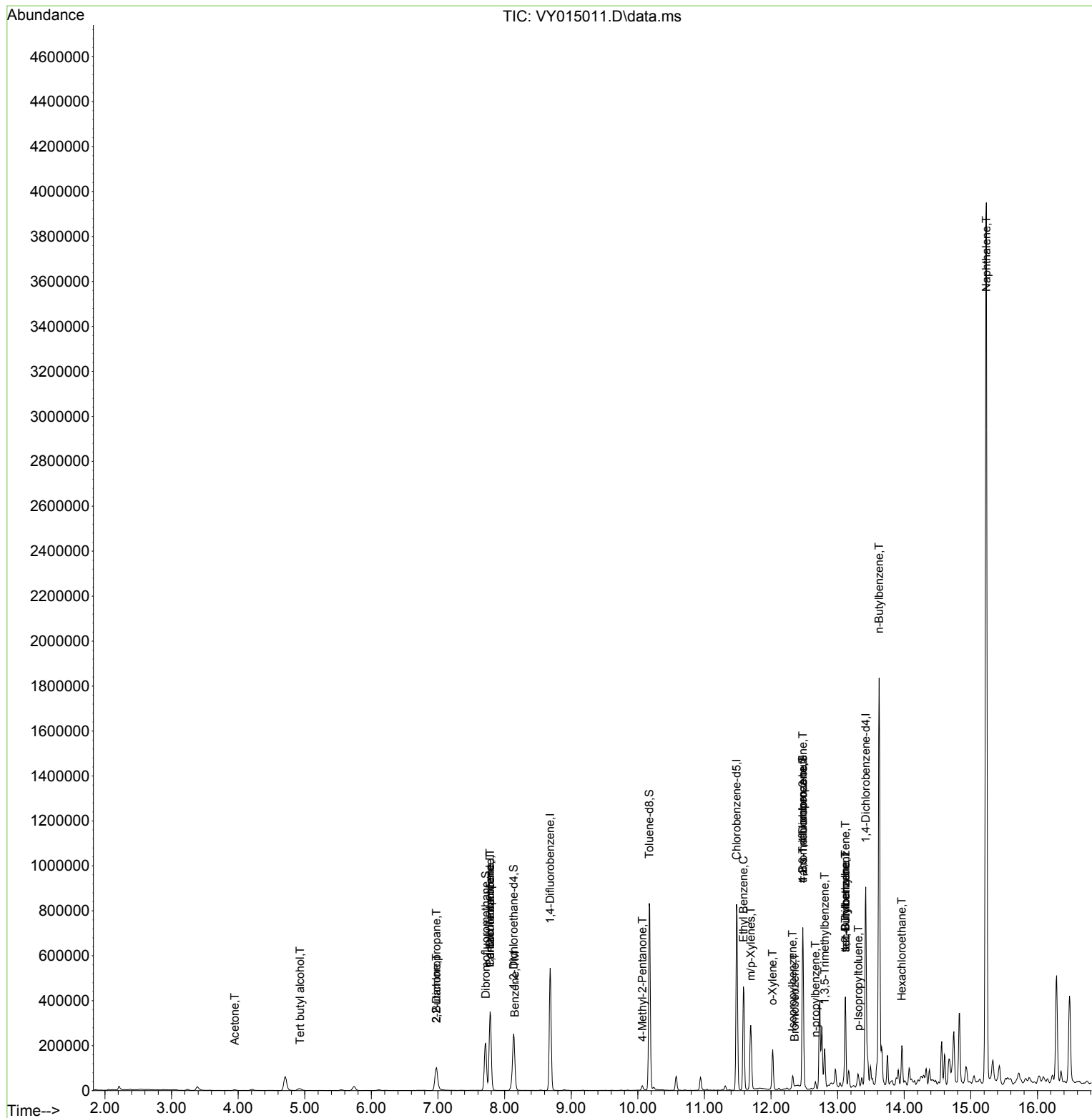
Internal Standards						
1) Pentafluorobenzene	7.783	168	274726	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	465629	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	449750	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	223269	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	177769	53.388	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.780%			
35) Dibromofluoromethane	7.716	113	149981	50.370	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.740%			
50) Toluene-d8	10.173	98	550037	48.532	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.060%			
62) 4-Bromofluorobenzene	12.477	95	216752	53.962	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 107.920%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.900	85	120	Below Cal	#	43
5) Bromomethane	2.631	94	643	Below Cal		86
11) Tert butyl alcohol	4.930	59	10416	12.961	ug/l #	89
16) Acetone	3.948	43	5332	5.135	ug/l #	86
20) Methylene Chloride	4.704	84	47008	Below Cal		90
25) 2-Butanone	6.978	43	6413	4.312	ug/l #	72
26) 2,2-Dichloropropane	6.978	77	7549	1.562	ug/l #	54
31) Cyclohexane	7.783	56	5925	Below Cal	#	1
36) 1,1-Dichloropropene	7.783	75	20083	5.433	ug/l #	50
38) Carbon Tetrachloride	7.783	117	28134	6.770	ug/l #	15
40) Benzene	8.155	78	27491	2.525	ug/l	94
51) 4-Methyl-2-Pentanone	10.069	43	13049	4.247	ug/l	93
67) Ethyl Benzene	11.587	91	324196	21.646	ug/l	99
68) m/p-Xylenes	11.697	106	89487	15.619	ug/l	94
69) o-Xylene	12.026	106	46051	8.214	ug/l	98
73) Isopropylbenzene	12.325	105	33226	2.214	ug/l	99
76) 1,2,3-Trichloropropane	12.477	75	113945	42.592	ug/l #	100
77) Bromobenzene	12.355	156	3895	1.070	ug/l #	1
78) n-propylbenzene	12.666	91	24592	1.370	ug/l	97
80) 1,3,5-Trimethylbenzene	12.806	105	55902	4.520	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	113945	93.831	ug/l #	11
83) tert-Butylbenzene	13.117	119	25605	2.263	ug/l #	54
84) 1,2,4-Trimethylbenzene	13.117	105	210889	17.019	ug/l	99
85) sec-Butylbenzene	13.117	105	210889	12.700	ug/l #	56
86) p-Isopropyltoluene	13.312	119	21406	1.557	ug/l	97
89) n-Butylbenzene	13.623	91	181394	14.045	ug/l #	44
90) Hexachloroethane	13.965	117	9692	3.631	ug/l #	8
95) Naphthalene	15.233	128	3238956	327.098	ug/l	99

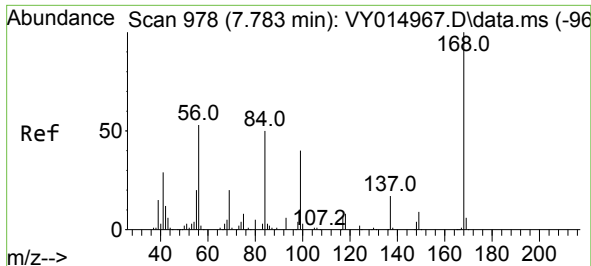
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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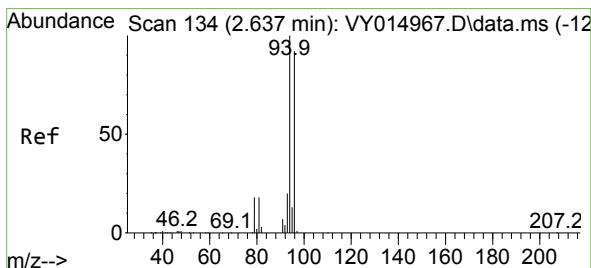
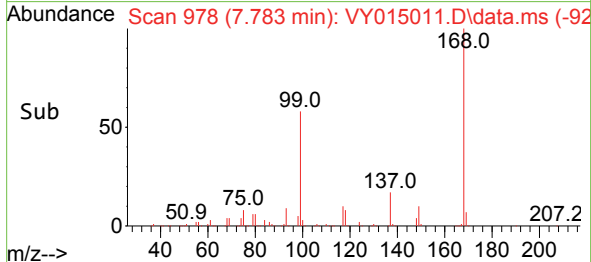
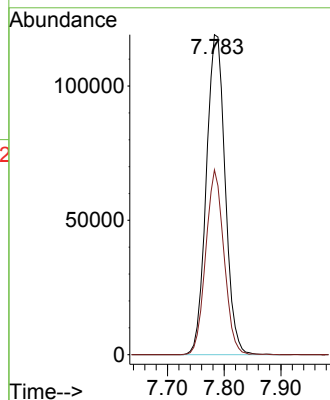
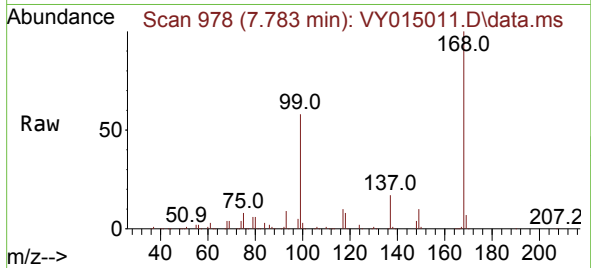




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

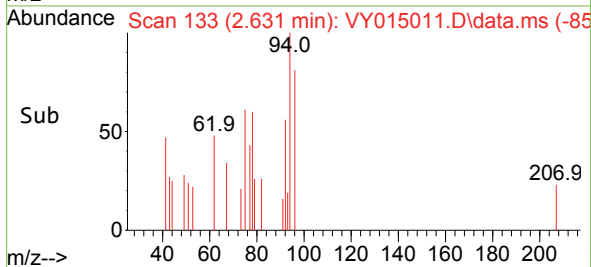
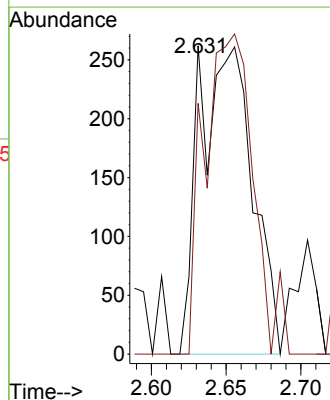
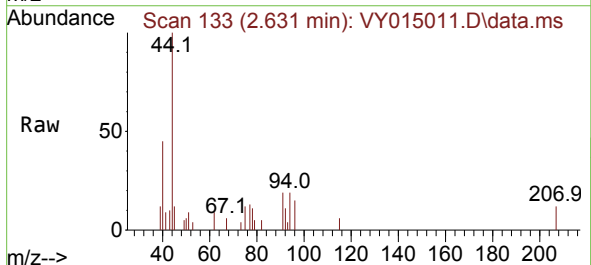
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

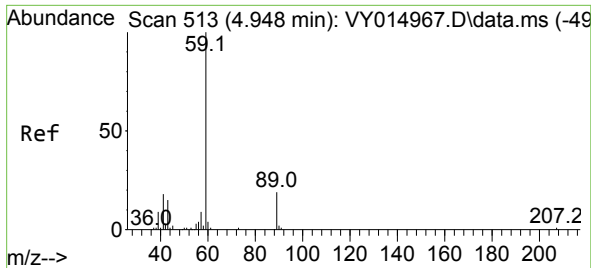
Tgt Ion:168 Resp: 274726
Ion Ratio Lower Upper
168 100
99 57.8 43.4 65.0



#5
Bromomethane
Concen: Below Cal
RT: 2.631 min Scan# 133
Delta R.T. -0.006 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion: 94 Resp: 643
Ion Ratio Lower Upper
94 100
96 81.3 75.8 113.6

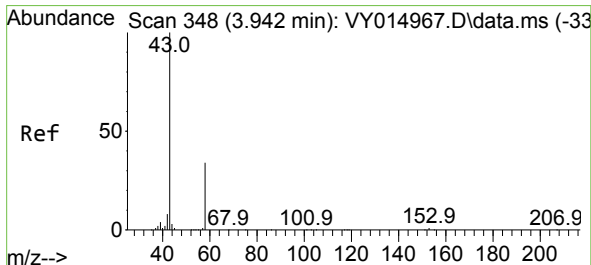
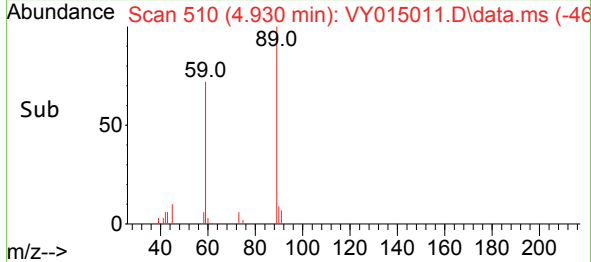
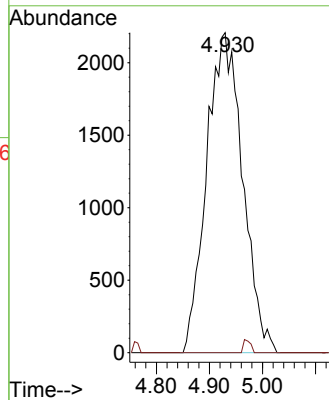
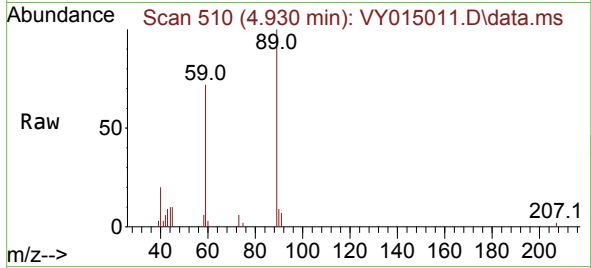




#11
Tert butyl alcohol
Concen: 12.961 ug/l
RT: 4.930 min Scan# 513
Delta R.T. -0.018 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

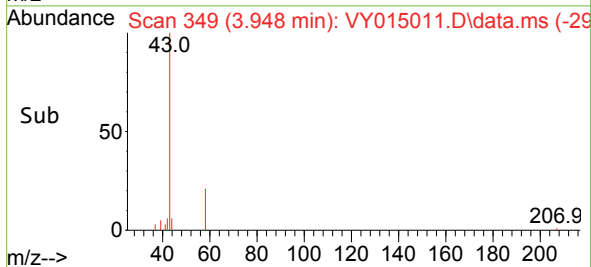
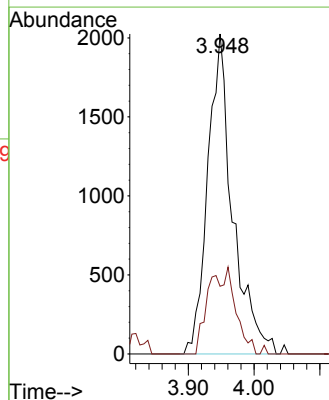
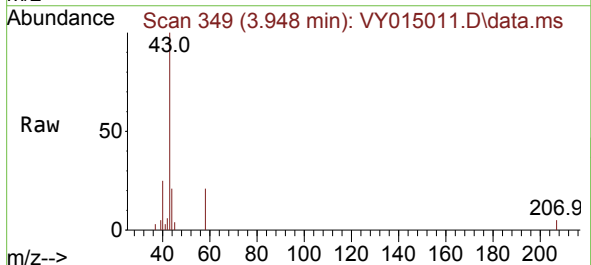
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

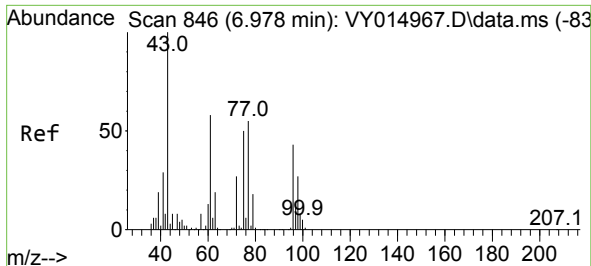
Tgt Ion: 59 Resp: 10416
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#16
Acetone
Concen: 5.135 ug/l
RT: 3.948 min Scan# 349
Delta R.T. 0.006 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion: 43 Resp: 5332
Ion Ratio Lower Upper
43 100
58 21.1 22.7 34.1#

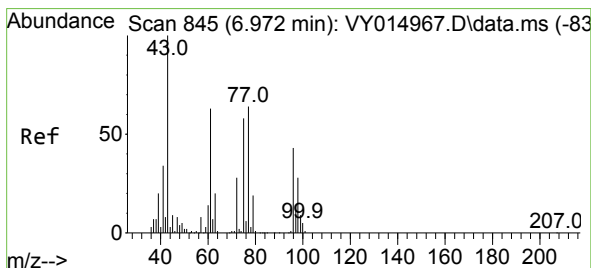
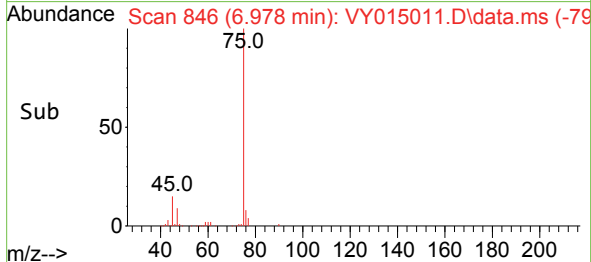
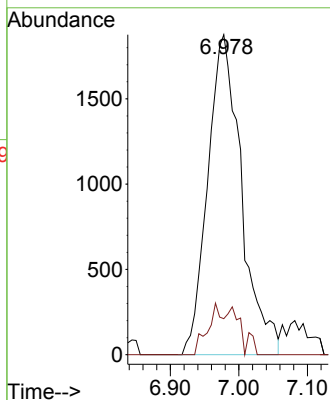
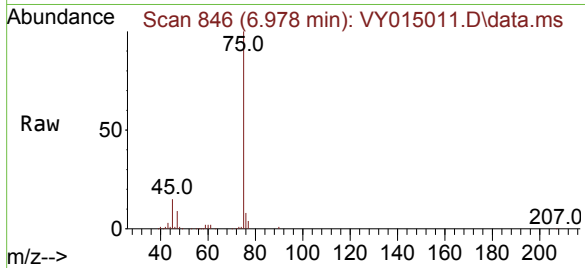




#25
2-Butanone
Concen: 4.312 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

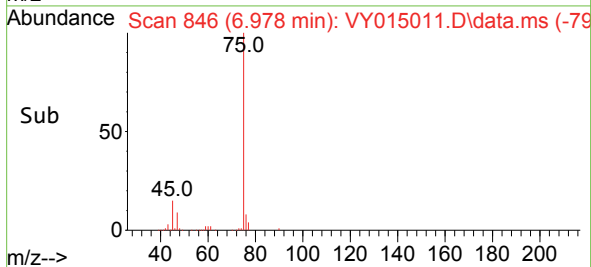
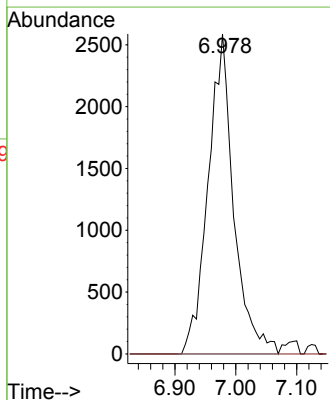
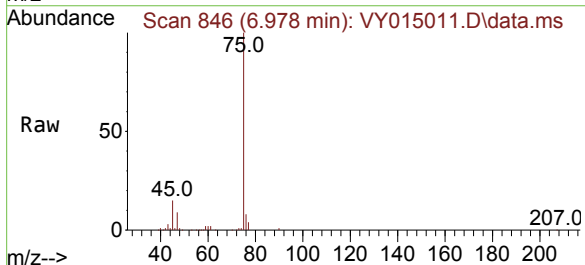
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

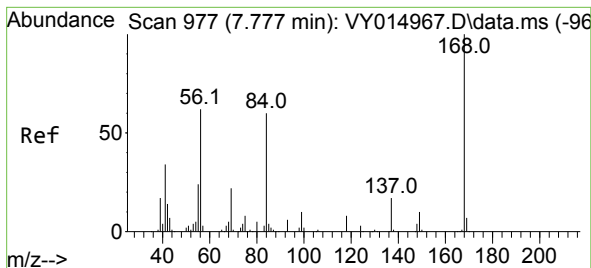
Tgt Ion: 43 Resp: 6413
Ion Ratio Lower Upper
43 100
72 11.2 20.5 30.7#



#26
2,2-Dichloropropane
Concen: 1.562 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.006 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion: 77 Resp: 7549
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.783 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY015011.D

Acq: 09 Aug 2023 17:29

Instrument :

MSVOA_Y

ClientSampleId :

DEAN-OILY-STONE

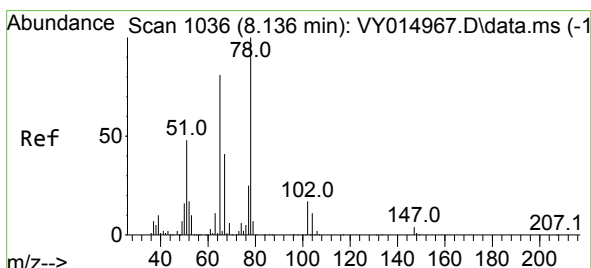
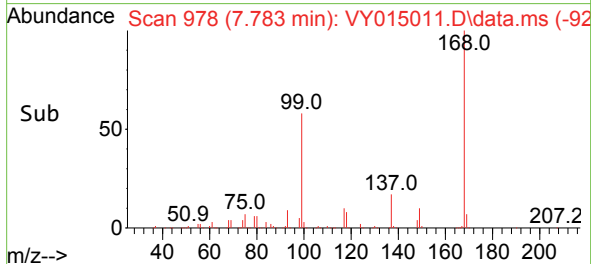
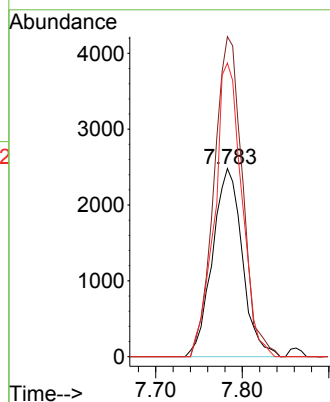
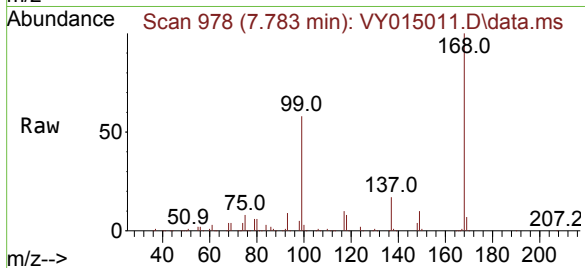
Tgt Ion: 56 Resp: 5925

Ion Ratio Lower Upper

56 100

69 170.1 27.8 41.6#

84 156.1 66.4 99.6#



#33

1,2-Dichloroethane-d4

Concen: 53.388 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VY015011.D

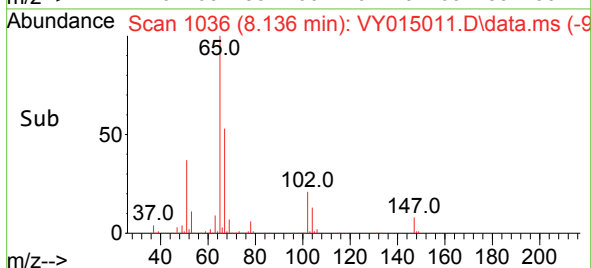
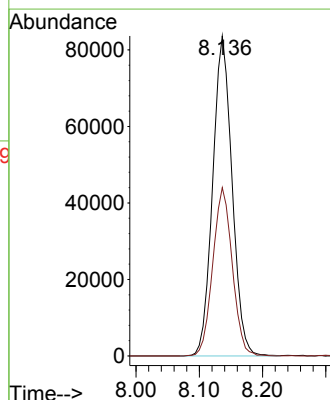
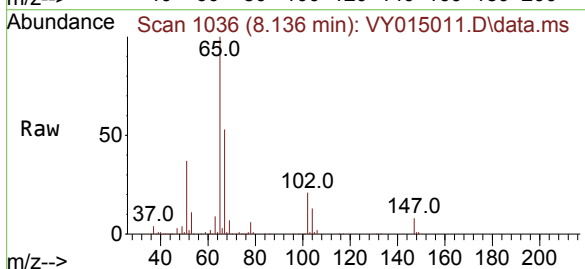
Acq: 09 Aug 2023 17:29

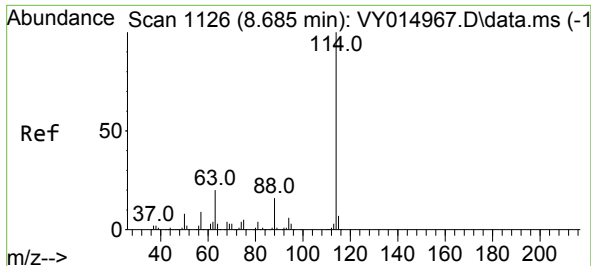
Tgt Ion: 65 Resp: 177769

Ion Ratio Lower Upper

65 100

67 52.9 0.0 101.8

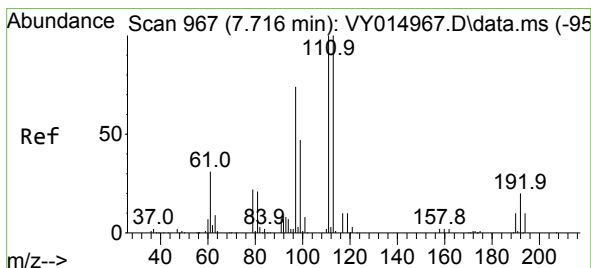
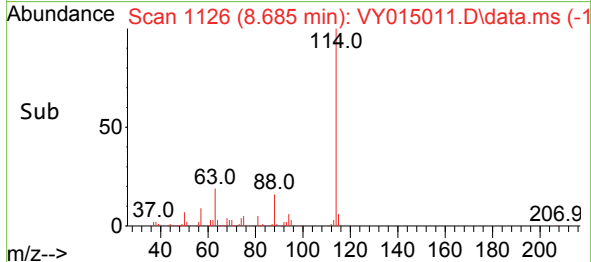
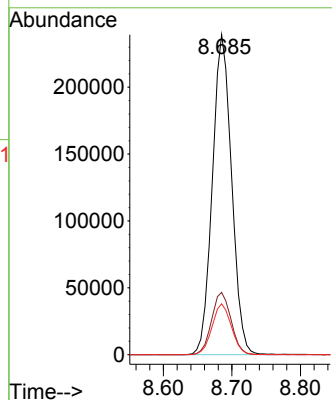
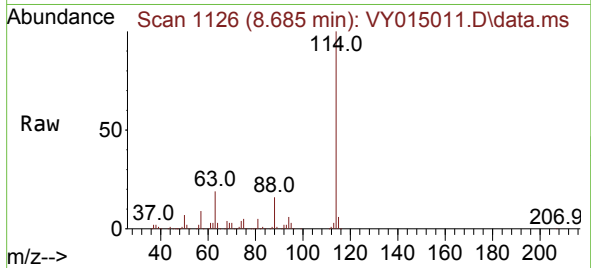




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

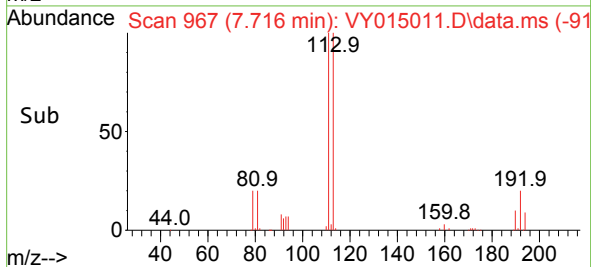
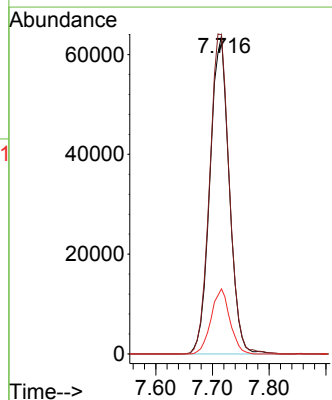
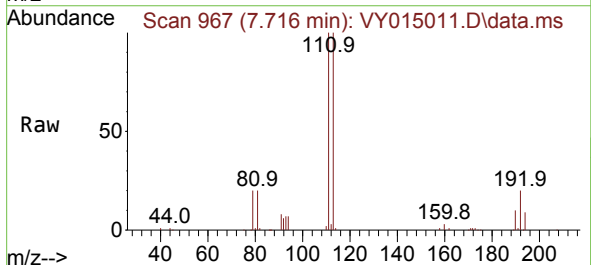
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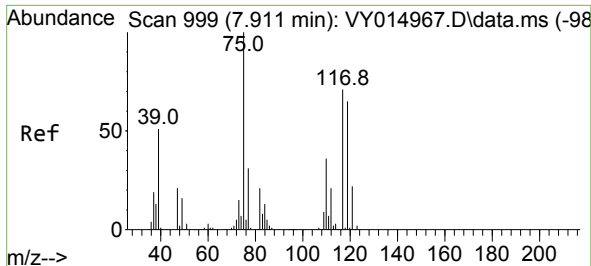
Tgt Ion:114 Resp: 465629
Ion Ratio Lower Upper
114 100
63 19.4 0.0 42.4
88 15.9 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.370 ug/l
RT: 7.716 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion:113 Resp: 149981
Ion Ratio Lower Upper
113 100
111 103.1 81.3 121.9
192 20.0 16.9 25.3

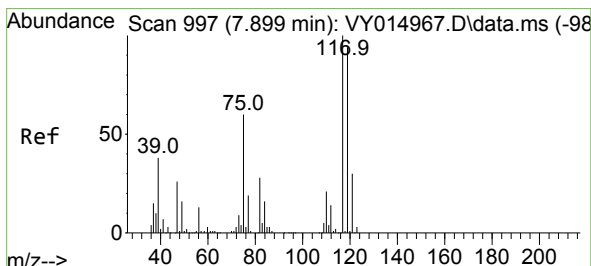
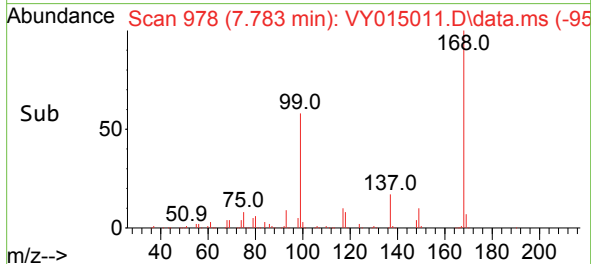
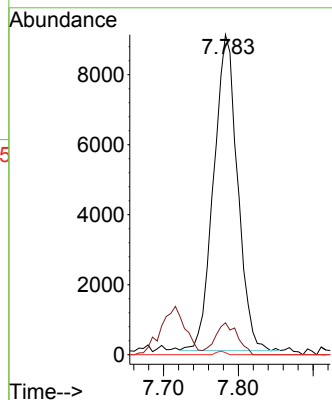
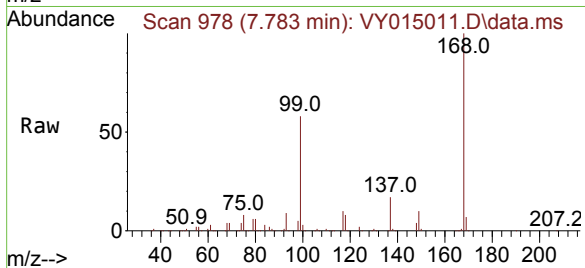




#36
1,1-Dichloropropene
Concen: 5.433 ug/l
RT: 7.783 min Scan# 911
Delta R.T. -0.128 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

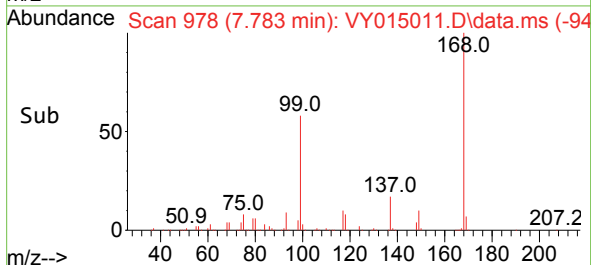
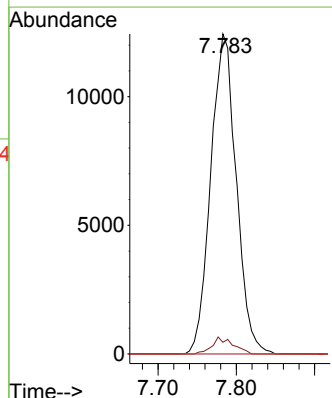
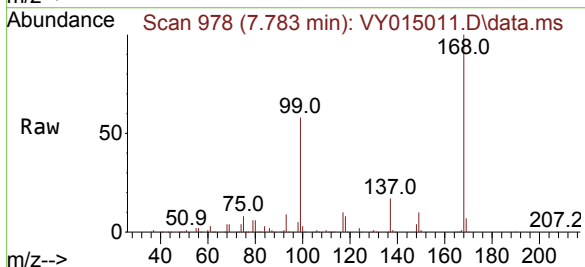
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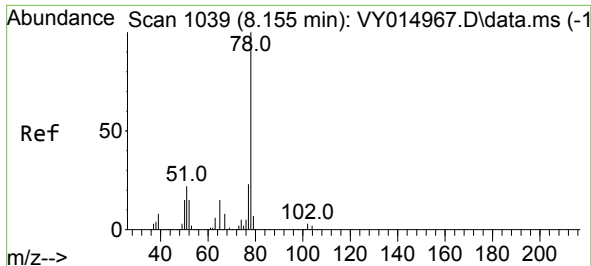
Tgt Ion: 75 Resp: 20083
Ion Ratio Lower Upper
75 100
110 9.3 17.8 53.5#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 6.770 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.116 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion: 117 Resp: 28134
Ion Ratio Lower Upper
117 100
119 3.7 76.4 114.6#
121 0.0 25.8 38.6#

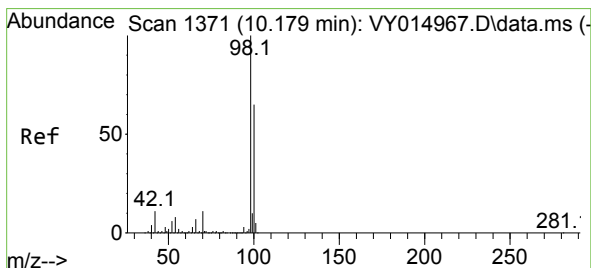
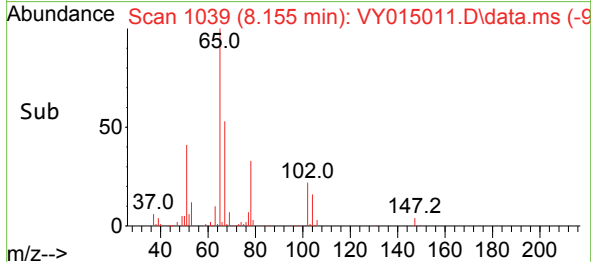
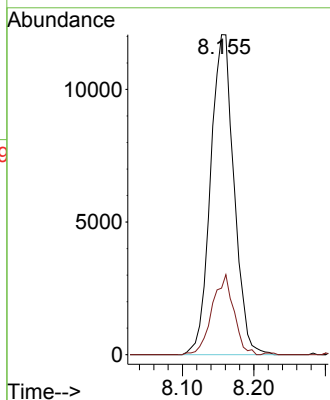
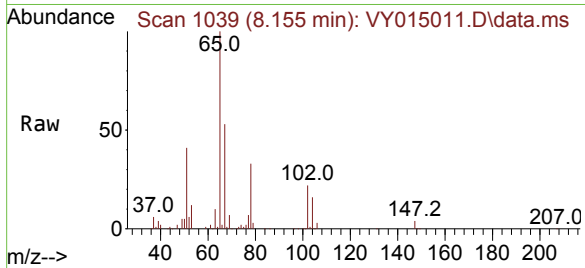




#40
Benzene
Concen: 2.525 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

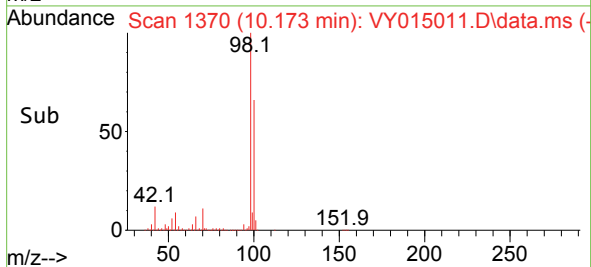
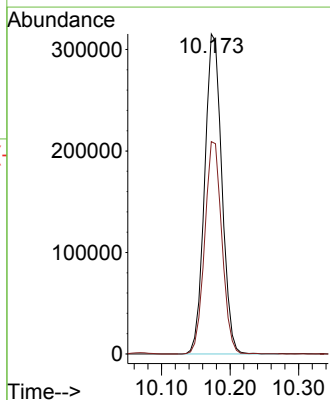
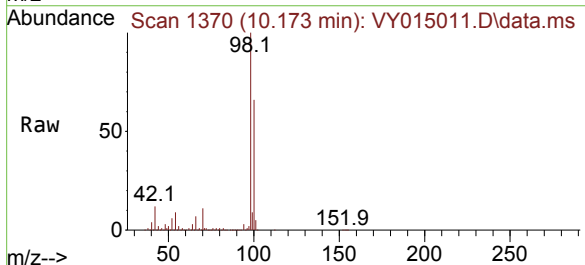
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

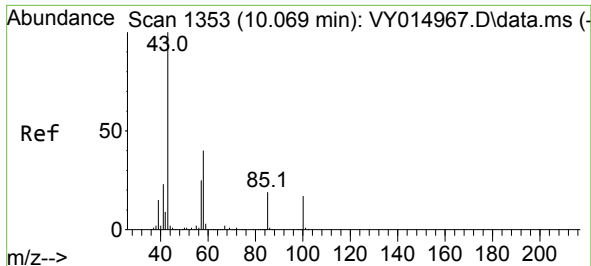
Tgt Ion: 78 Resp: 27491
Ion Ratio Lower Upper
78 100
77 20.8 19.0 28.6



#50
Toluene-d8
Concen: 48.532 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. -0.006 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion: 98 Resp: 550037
Ion Ratio Lower Upper
98 100
100 66.3 50.1 75.1

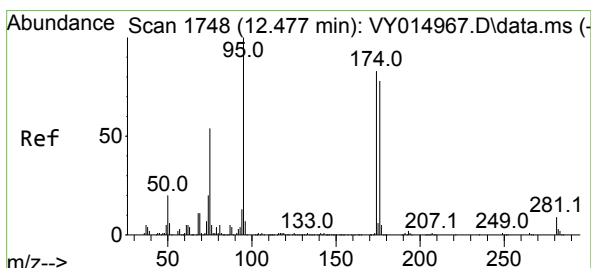
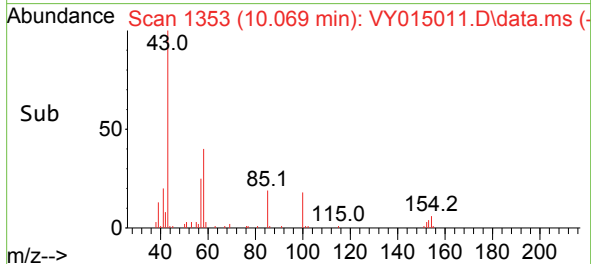
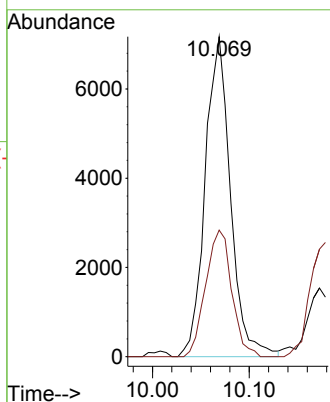
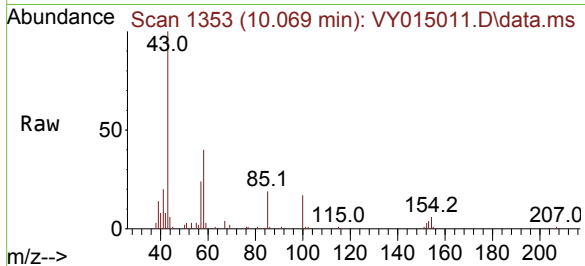




#51
4-Methyl-2-Pentanone
Concen: 4.247 ug/l
RT: 10.069 min Scan# 1353
Delta R.T. 0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

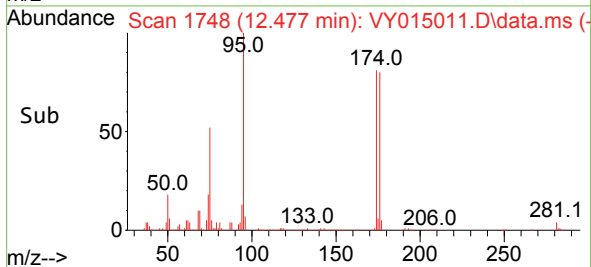
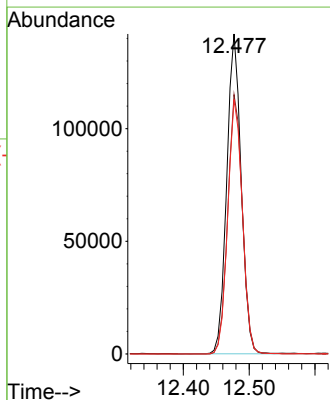
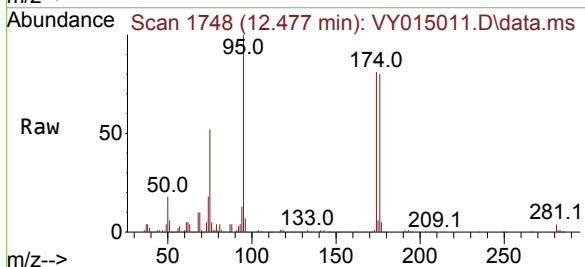
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

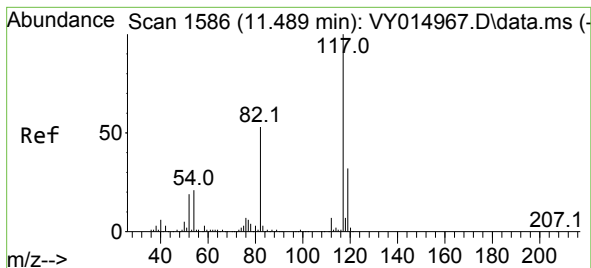
Tgt Ion: 43 Resp: 13049
Ion Ratio Lower Upper
43 100
58 40.7 29.0 43.6



#62
4-Bromofluorobenzene
Concen: 53.962 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion: 95 Resp: 216752
Ion Ratio Lower Upper
95 100
174 82.1 0.0 178.2
176 80.5 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.483 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY015011.D

Acq: 09 Aug 2023 17:29

Instrument :

MSVOA_Y

ClientSampleId :

DEAN-OILY-STONE

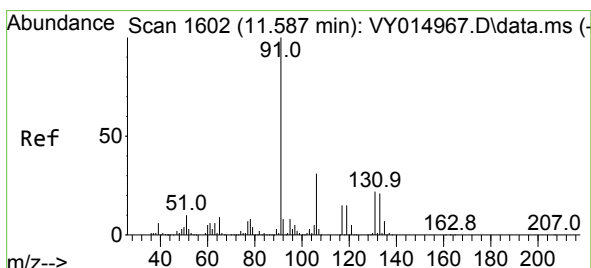
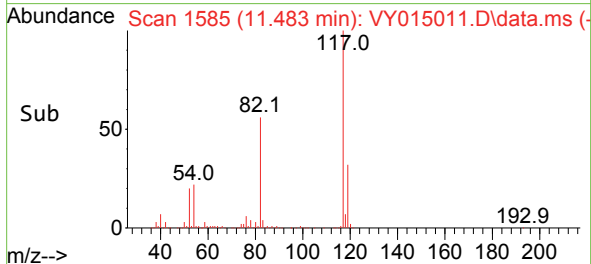
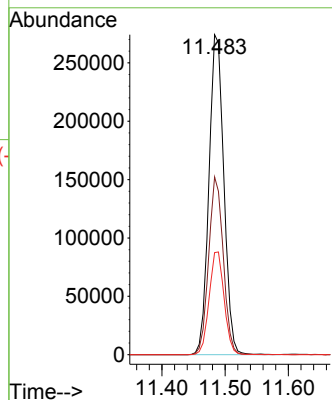
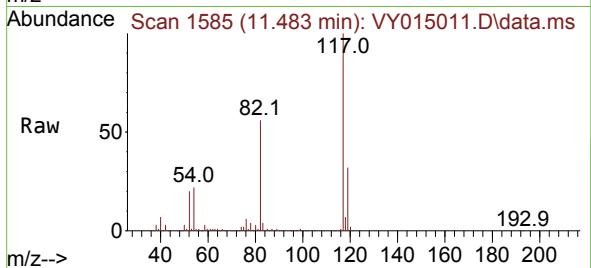
Tgt Ion:117 Resp: 449750

Ion Ratio Lower Upper

117 100

82 55.5 43.4 65.0

119 31.9 26.3 39.5



#67

Ethyl Benzene

Concen: 21.646 ug/l

RT: 11.587 min Scan# 1602

Delta R.T. 0.000 min

Lab File: VY015011.D

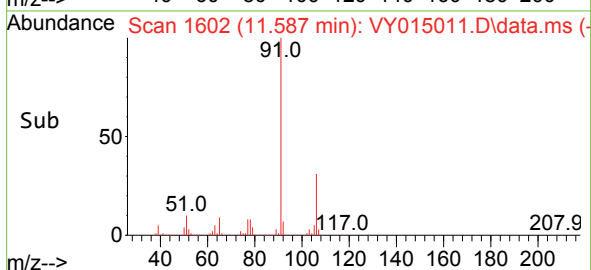
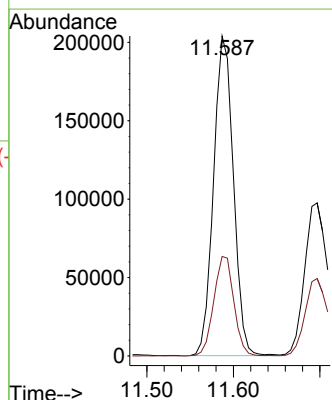
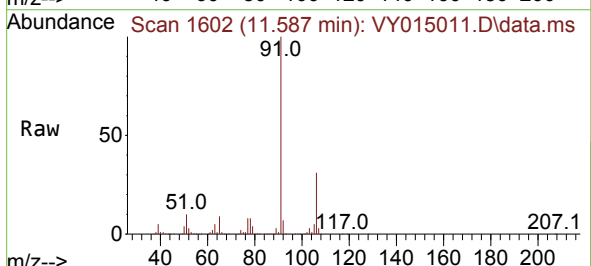
Acq: 09 Aug 2023 17:29

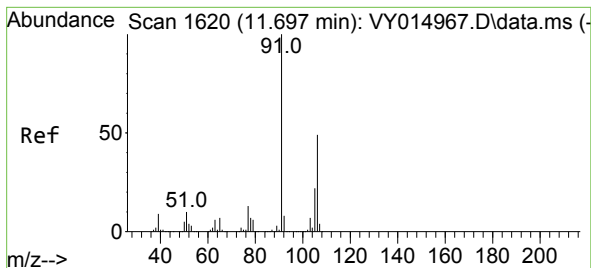
Tgt Ion: 91 Resp: 324196

Ion Ratio Lower Upper

91 100

106 31.1 24.6 36.8

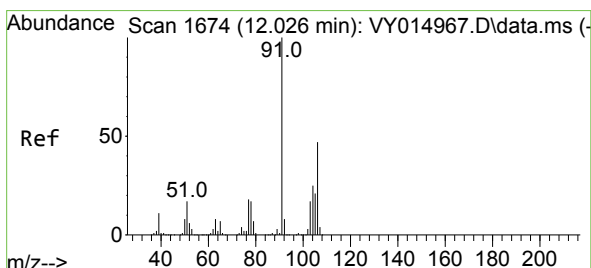
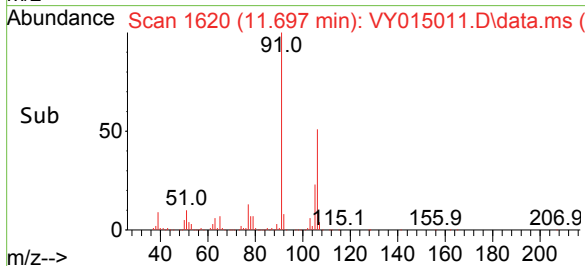
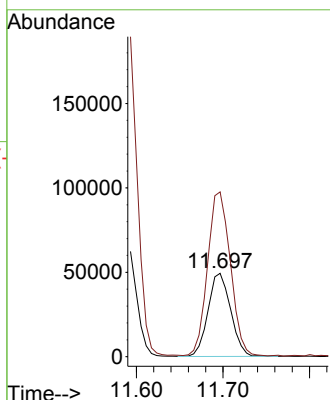
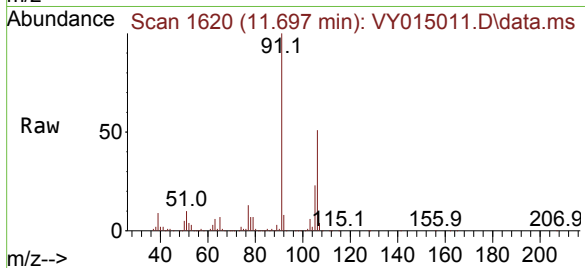




#68
m/p-Xylenes
Concen: 15.619 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

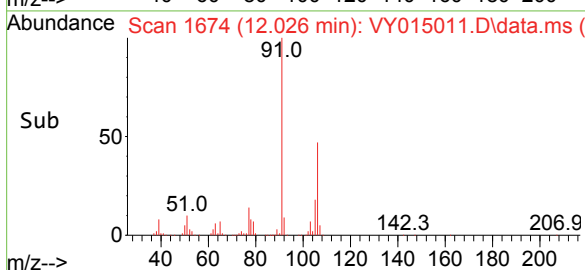
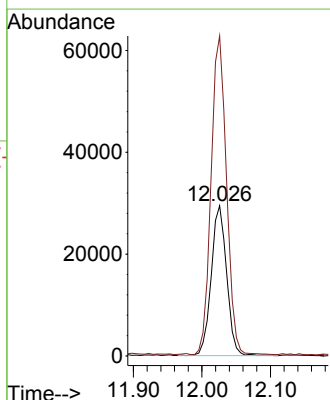
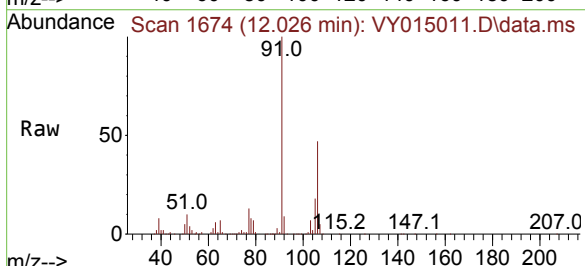
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

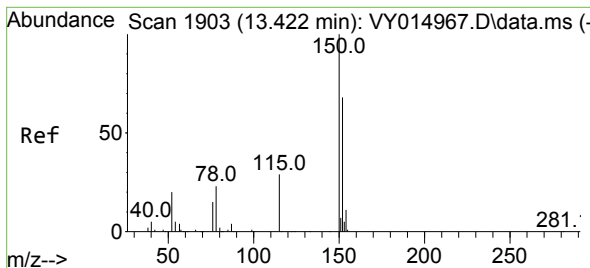
Tgt Ion:106 Resp: 89487
Ion Ratio Lower Upper
106 100
91 198.5 166.1 249.1



#69
o-Xylene
Concen: 8.214 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion:106 Resp: 46051
Ion Ratio Lower Upper
106 100
91 212.8 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY015011.D

Acq: 09 Aug 2023 17:29

Instrument :

MSVOA_Y

ClientSampleId :

DEAN-OILY-STONE

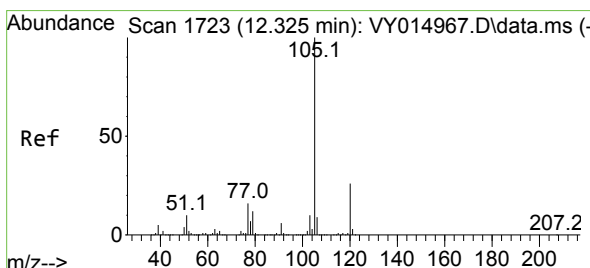
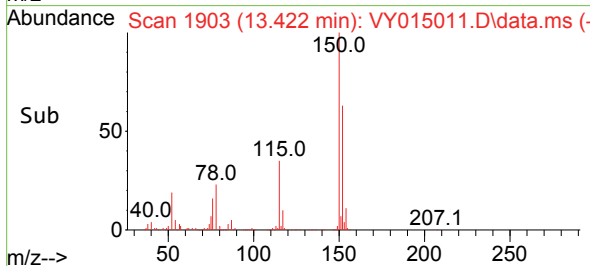
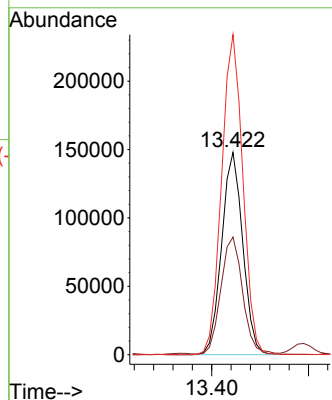
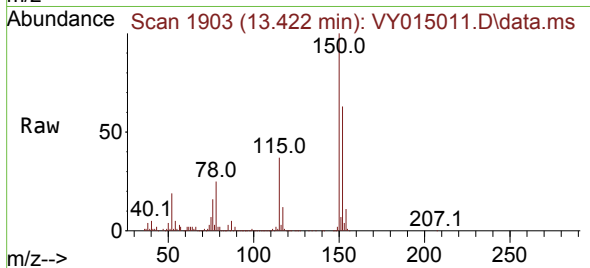
Tgt Ion:152 Resp: 223269

Ion Ratio Lower Upper

152 100

115 59.6 28.8 86.5

150 159.4 0.0 348.8



#73

Isopropylbenzene

Concen: 2.214 ug/l

RT: 12.325 min Scan# 1723

Delta R.T. 0.000 min

Lab File: VY015011.D

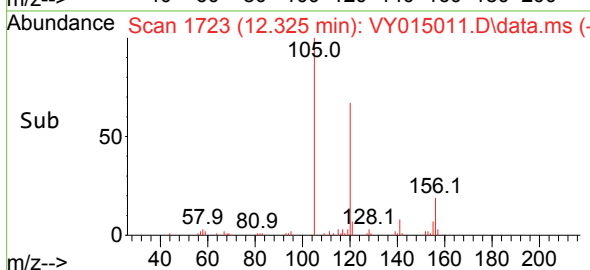
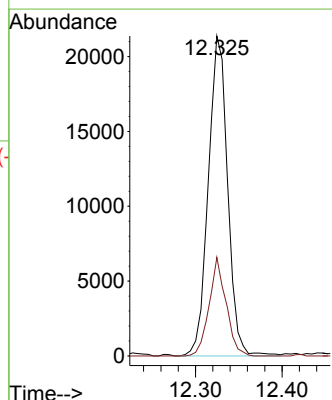
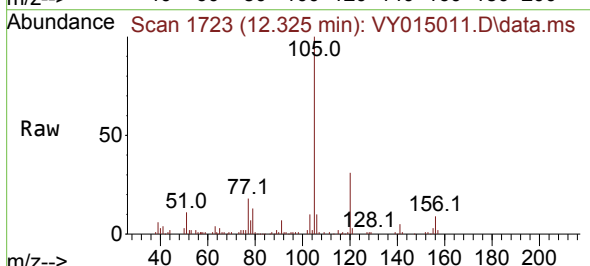
Acq: 09 Aug 2023 17:29

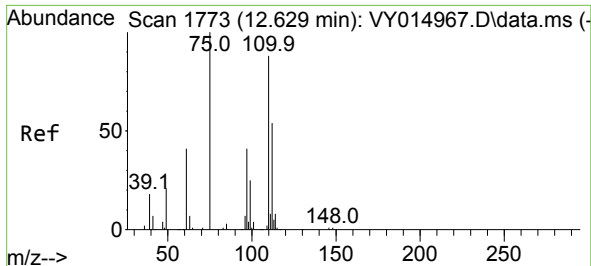
Tgt Ion:105 Resp: 33226

Ion Ratio Lower Upper

105 100

120 27.0 13.3 39.9

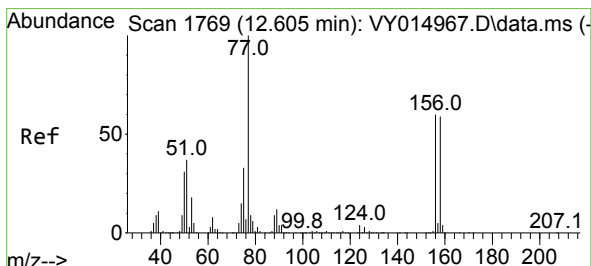
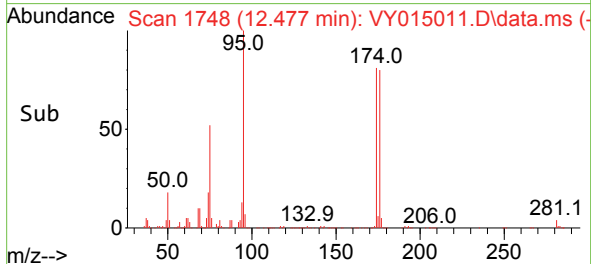
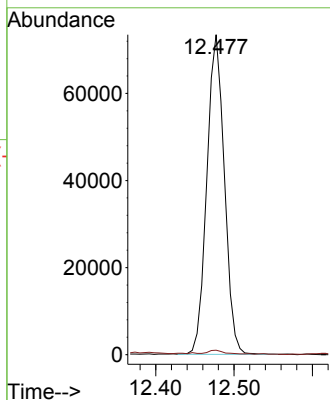
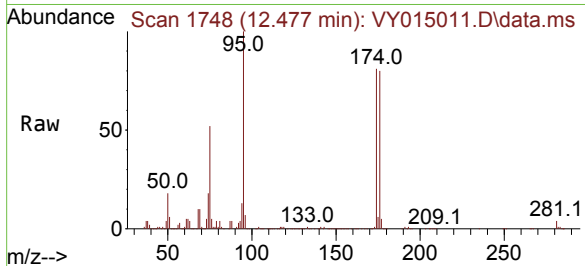




#76
1,2,3-Trichloropropane
Concen: 42.592 ug/l
RT: 12.477 min Scan# 11
Delta R.T. -0.152 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

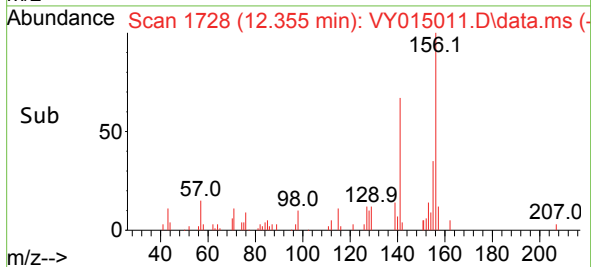
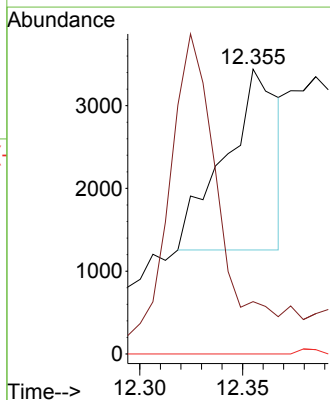
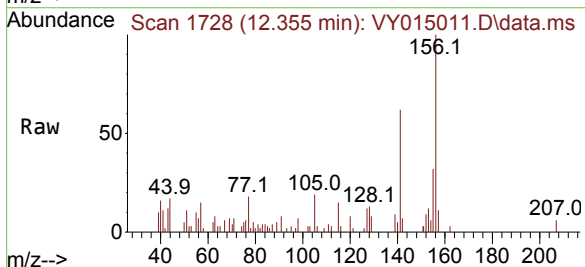
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

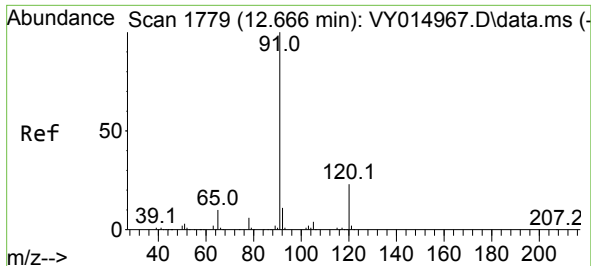
Tgt Ion: 75 Resp: 113945
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#



#77
Bromobenzene
Concen: 1.070 ug/l
RT: 12.355 min Scan# 1728
Delta R.T. -0.250 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion: 156 Resp: 3895
Ion Ratio Lower Upper
156 100
77 0.0 92.8 278.6#
158 0.0 48.4 145.3#

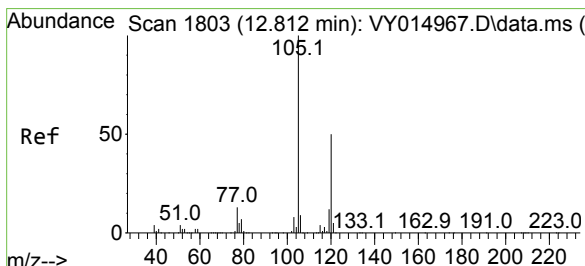
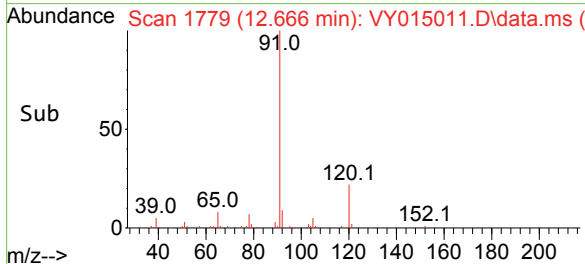
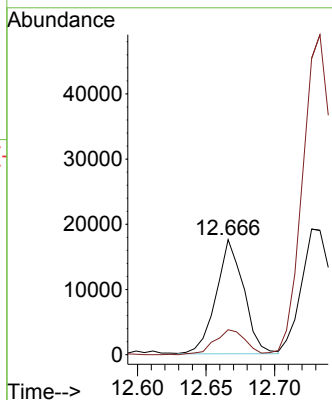
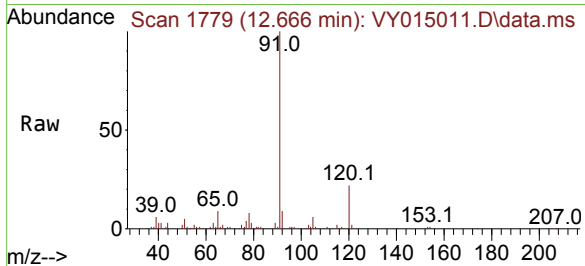




#78
n-propylbenzene
Concen: 1.370 ug/l
RT: 12.666 min Scan# 1779
Delta R.T. 0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

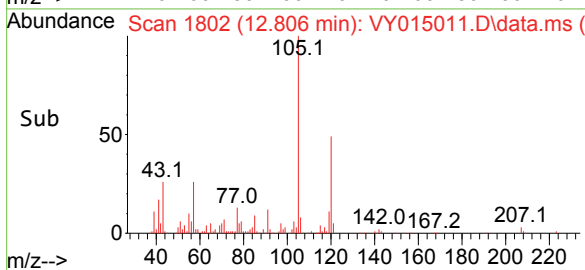
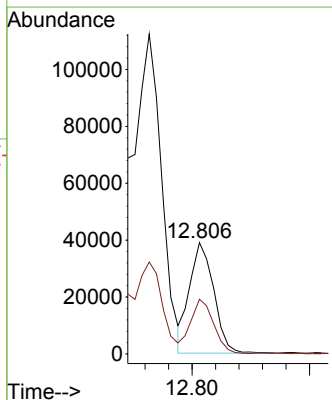
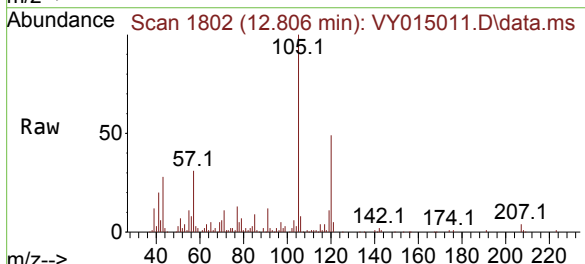
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

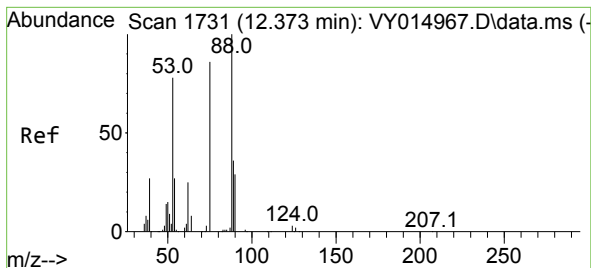
Tgt Ion: 91 Resp: 24592
Ion Ratio Lower Upper
91 100
120 24.3 11.5 34.4



#80
1,3,5-Trimethylbenzene
Concen: 4.520 ug/l
RT: 12.806 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion: 105 Resp: 55902
Ion Ratio Lower Upper
105 100
120 46.9 23.9 71.7

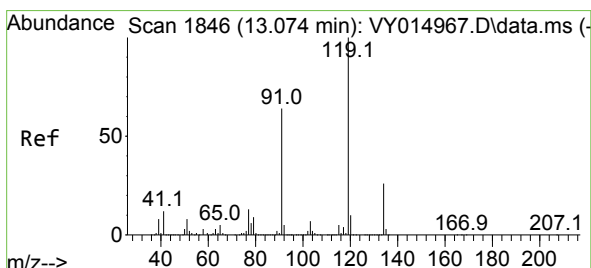
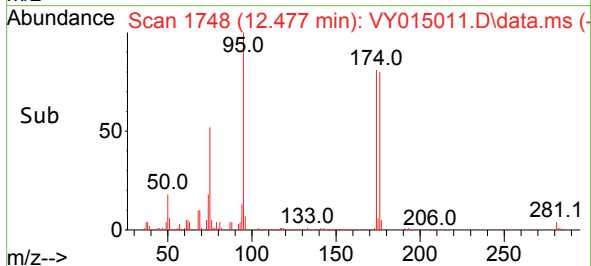
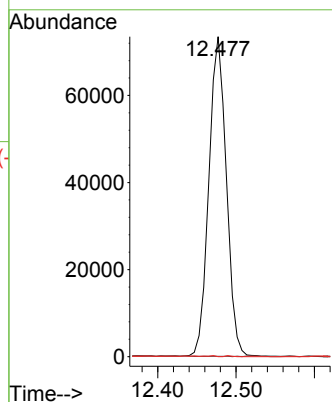
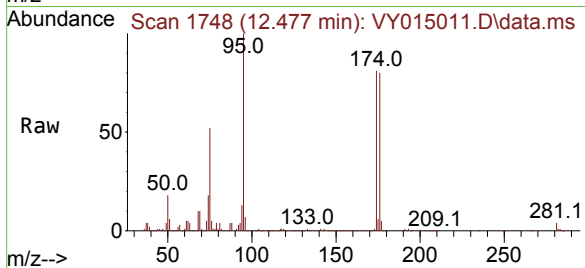




#81
trans-1,4-Dichloro-2-butene
Concen: 93.831 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

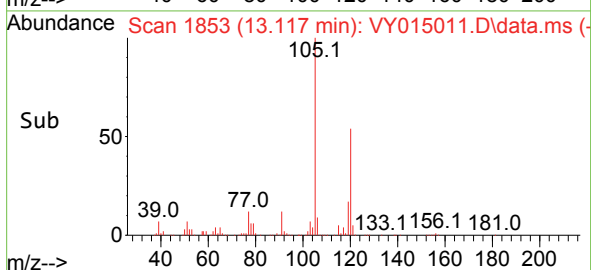
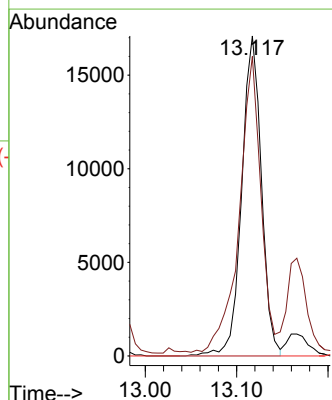
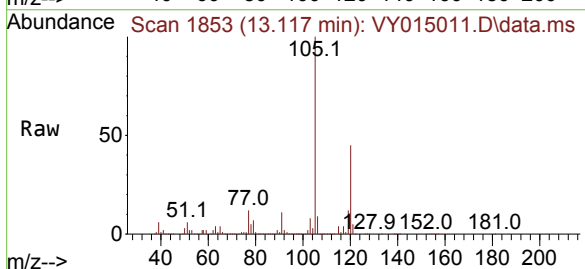
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

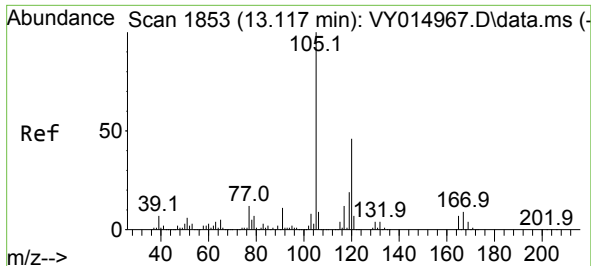
Tgt Ion: 75 Resp: 113945
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.2 37.4 56.0#



#83
tert-Butylbenzene
Concen: 2.263 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.043 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion: 119 Resp: 25605
Ion Ratio Lower Upper
119 100
91 100.9 32.9 98.6#
134 0.0 13.0 38.9#

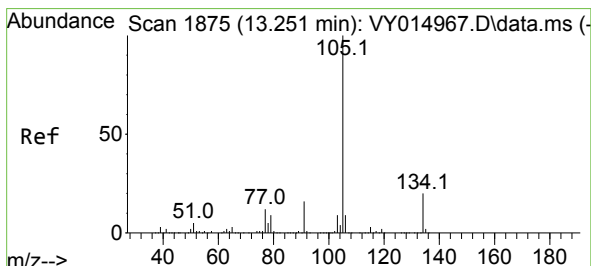
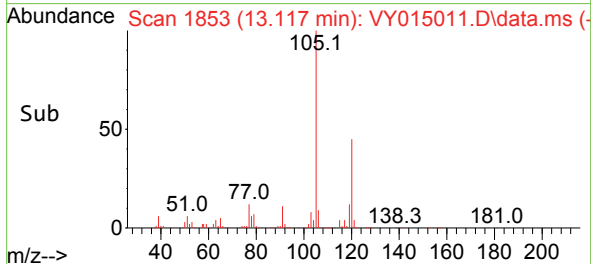
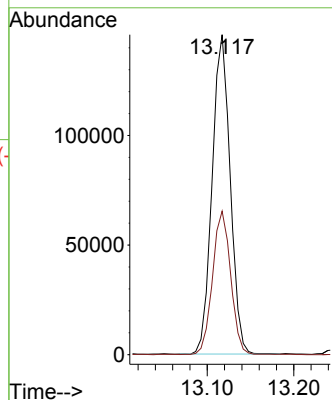
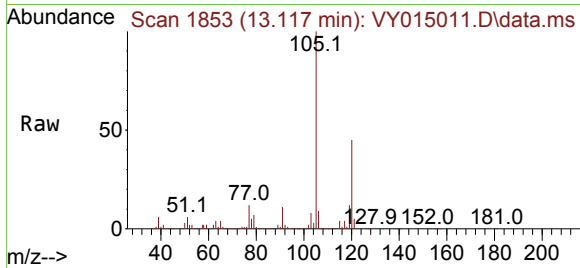




#84
1,2,4-Trimethylbenzene
Concen: 17.019 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

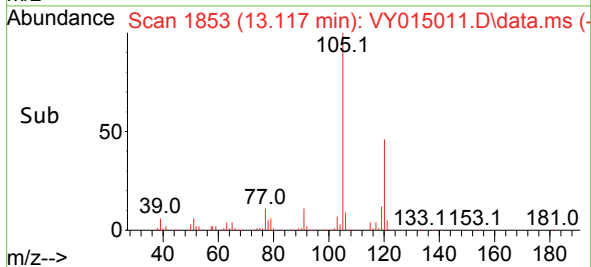
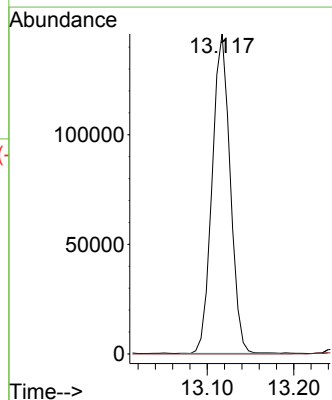
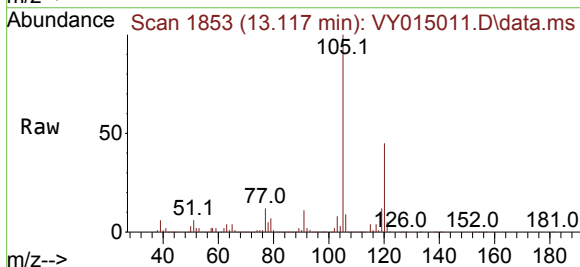
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

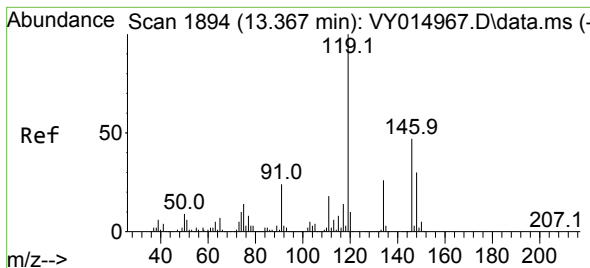
Tgt Ion:105 Resp: 210889
Ion Ratio Lower Upper
105 100
120 45.2 22.2 66.6



#85
sec-Butylbenzene
Concen: 12.700 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. -0.134 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion:105 Resp: 210889
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.6#





#86

p-Isopropyltoluene

Concen: 1.557 ug/l

RT: 13.312 min Scan# 119

Delta R.T. -0.055 min

Lab File: VY015011.D

Acq: 09 Aug 2023 17:29

Instrument :

MSVOA_Y

ClientSampleId :

DEAN-OILY-STONE

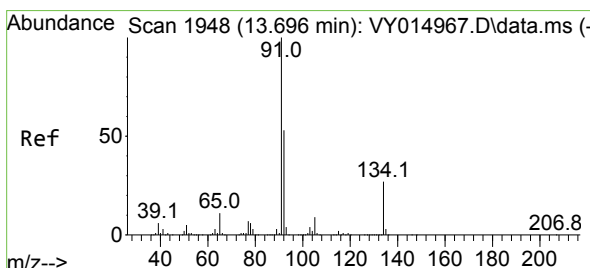
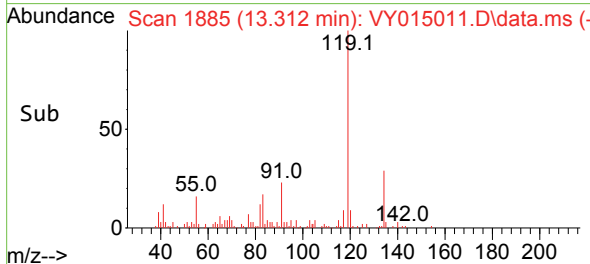
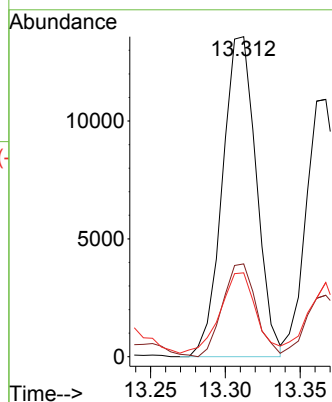
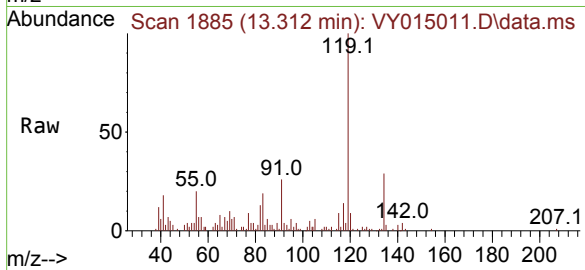
Tgt Ion:119 Resp: 21406

Ion Ratio Lower Upper

119 100

134 28.6 13.3 39.8

91 26.3 12.4 37.4



#89

n-Butylbenzene

Concen: 14.045 ug/l

RT: 13.623 min Scan# 1936

Delta R.T. -0.073 min

Lab File: VY015011.D

Acq: 09 Aug 2023 17:29

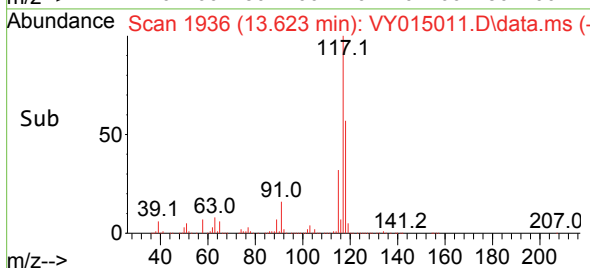
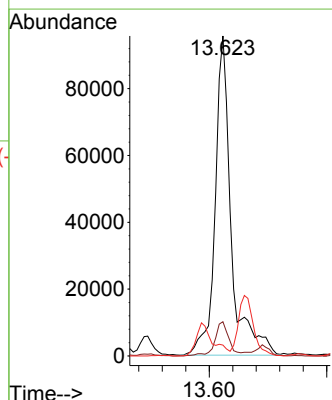
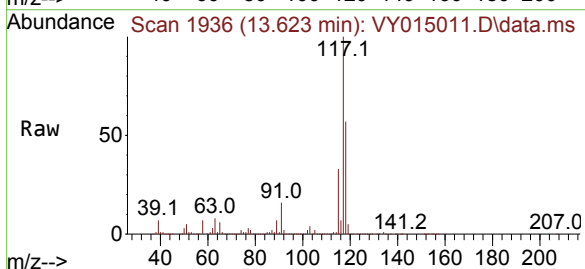
Tgt Ion: 91 Resp: 181394

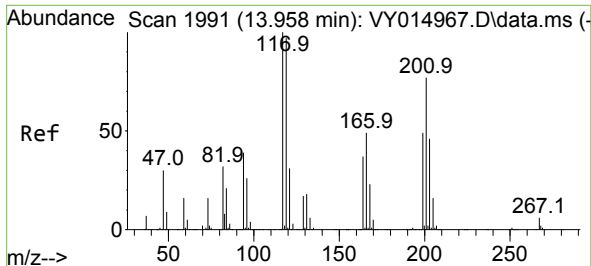
Ion Ratio Lower Upper

91 100

92 9.4 25.4 76.0#

134 0.0 12.6 37.6#

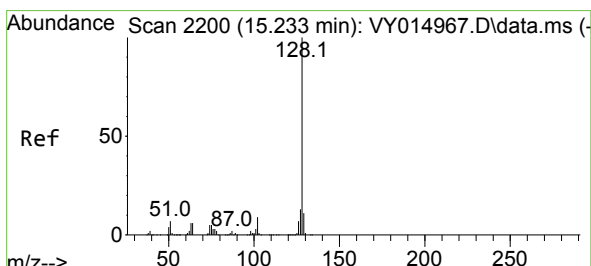
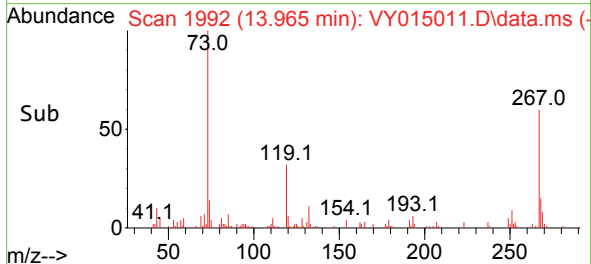
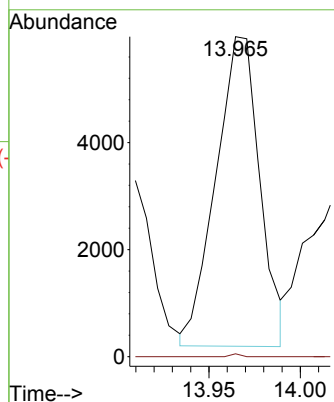
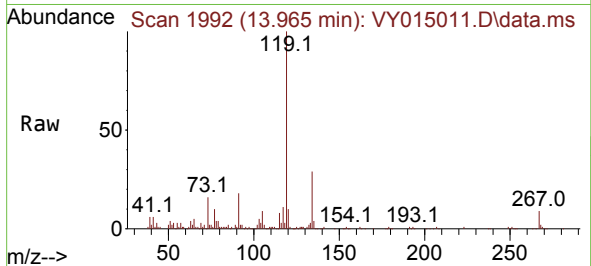




#90
Hexachloroethane
Concen: 3.631 ug/l
RT: 13.965 min Scan# 1991
Delta R.T. 0.006 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

Tgt Ion:117 Resp: 9692
Ion Ratio Lower Upper
117 100
201 0.2 41.6 124.8#



#95
Naphthalene
Concen: 327.098 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. 0.000 min
Lab File: VY015011.D
Acq: 09 Aug 2023 17:29

Tgt Ion:128 Resp: 3238956
Ion Ratio Lower Upper
128 100
127 12.9 10.8 16.2
129 11.0 8.6 13.0

