

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081423\
 Data File : VY015083.D
 Acq On : 14 Aug 2023 16:47
 Operator : SY/MD
 Sample : 03941-03
 Misc : 4.18g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 DEAN-OILY-STONE

Quant Time: Aug 15 02:22:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

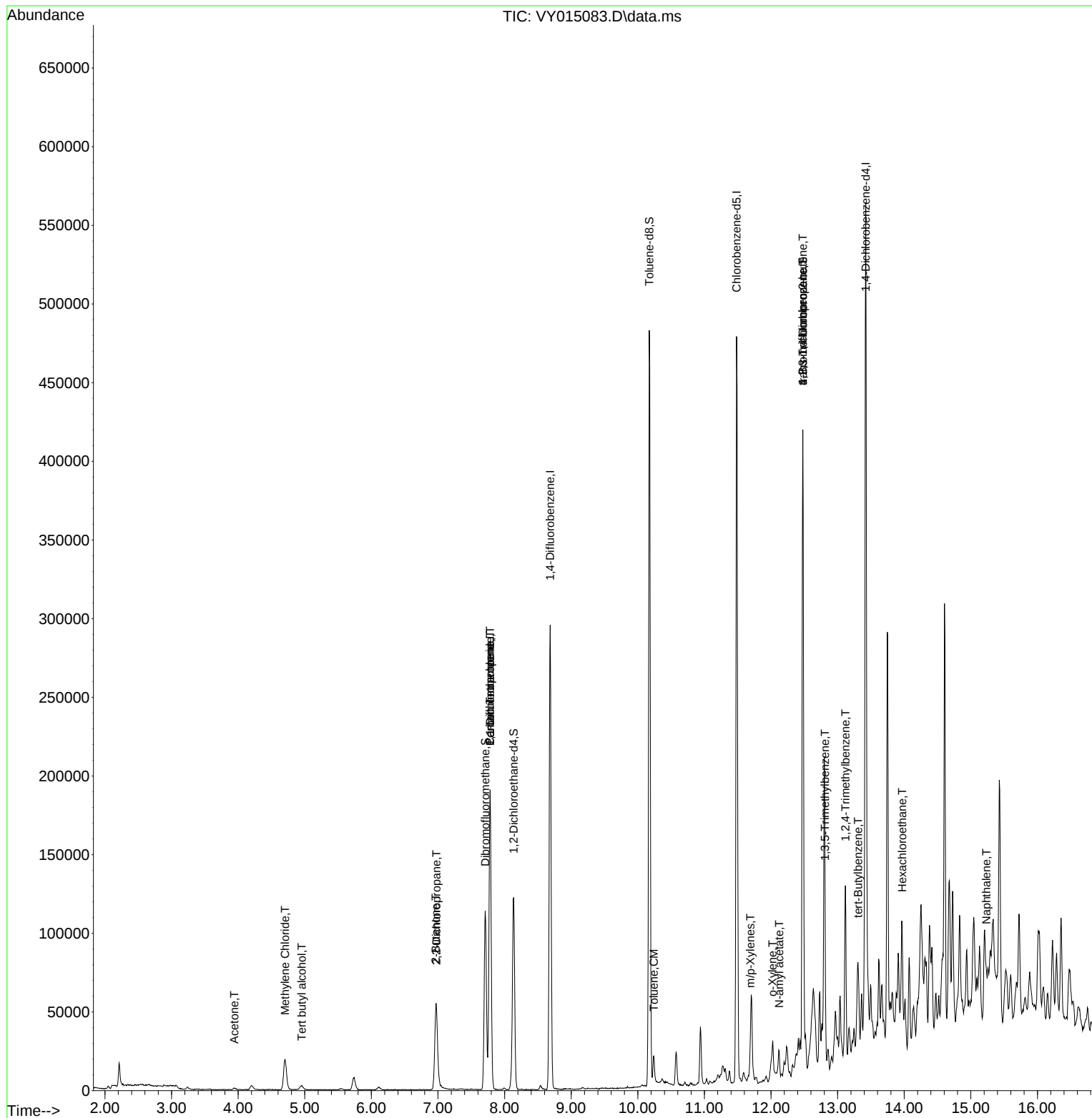
Internal Standards						
1) Pentafluorobenzene	7.783	168	146644	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	253443	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	252687	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	129167	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	96432	54.781	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.560%			
35) Dibromofluoromethane	7.710	113	81102	49.741	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.480%			
50) Toluene-d8	10.173	98	308704	50.861	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.720%			
62) 4-Bromofluorobenzene	12.477	95	118693	53.540	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 107.080%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.900	85	66	Below Cal	#	43
3) Chloromethane	2.113	50	579	Below Cal		93
5) Bromomethane	2.644	94	432	Below Cal	#	45
11) Tert butyl alcohol	4.954	59	5326	2.327	ug/l #	78
16) Acetone	3.942	43	2040	3.547	ug/l	90
20) Methylene Chloride	4.704	84	15138	7.288	ug/l	93
25) 2-Butanone	6.966	43	3487	4.283	ug/l #	82
26) 2,2-Dichloropropane	6.978	77	4088	1.735	ug/l #	54
31) Cyclohexane	7.777	56	3007	Below Cal	#	1
36) 1,1-Dichloropropene	7.783	75	11941	6.620	ug/l #	49
38) Carbon Tetrachloride	7.783	117	15147	7.095	ug/l #	16
52) Toluene	10.240	92	6809	1.894	ug/l	99
68) m/p-Xylenes	11.691	106	6824	2.227	ug/l	100
69) o-Xylene	12.026	106	5103	1.672	ug/l	88
74) N-amyl acetate	12.124	43	3640	1.214	ug/l #	70
76) 1,2,3-Trichloropropane	12.477	75	63016	40.156	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.812	105	13835	1.998	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.477	75	63016	88.202	ug/l #	11
83) tert-Butylbenzene	13.306	119	7028	1.110	ug/l	70
84) 1,2,4-Trimethylbenzene	13.117	105	58997	8.528	ug/l	99
90) Hexachloroethane	13.971	117	2563	1.679	ug/l #	8
95) Naphthalene	15.233	128	19167	3.195	ug/l #	92

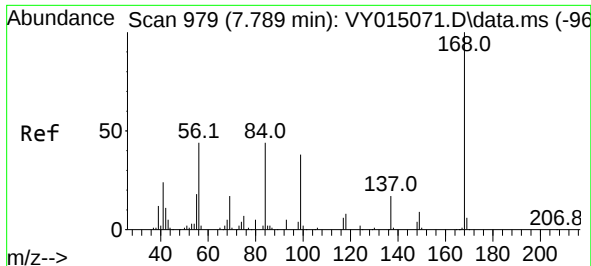
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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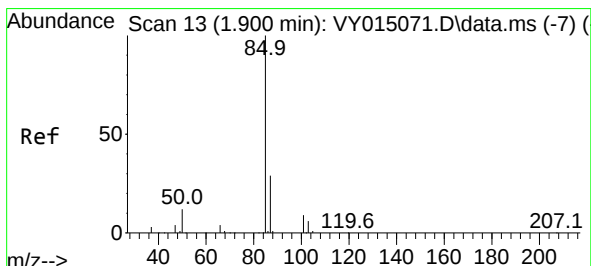
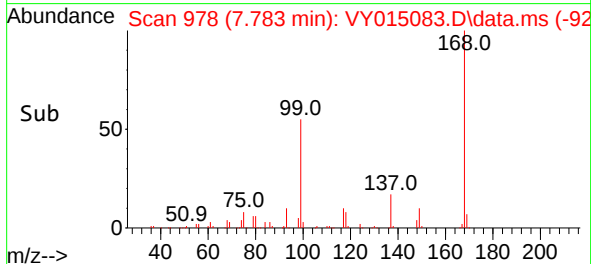
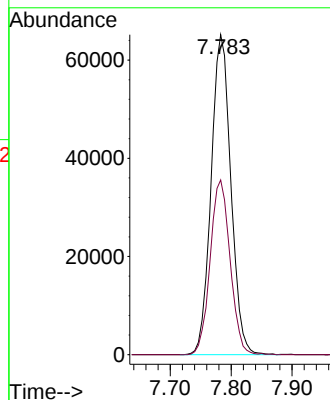
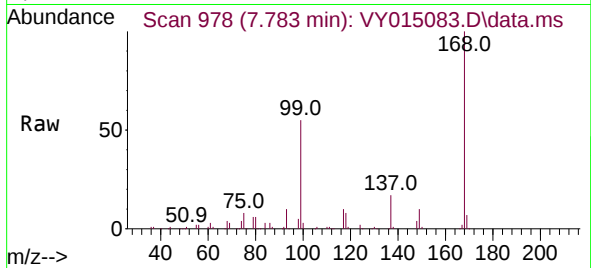




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

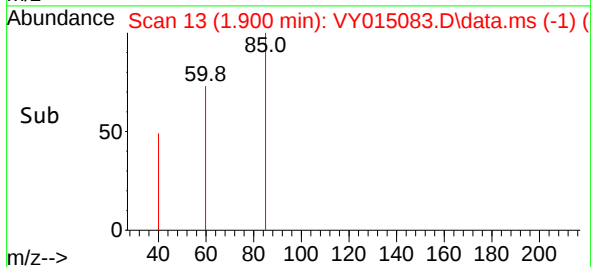
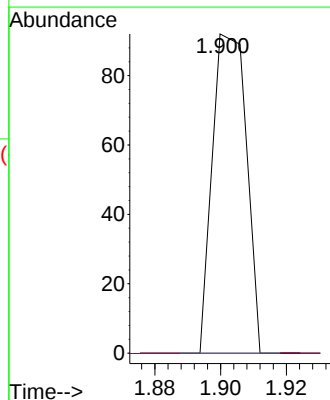
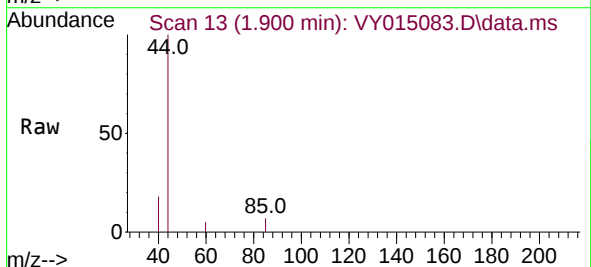
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

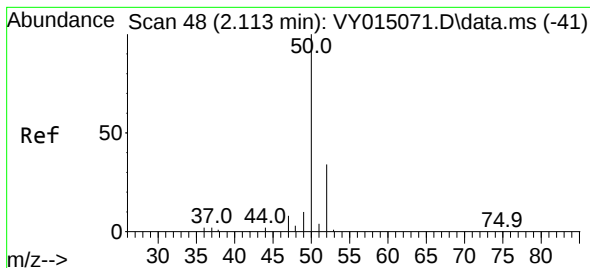
Tgt Ion:168 Resp: 146644
Ion Ratio Lower Upper
168 100
99 54.6 43.4 65.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.900 min Scan# 13
Delta R.T. -0.000 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

Tgt Ion: 85 Resp: 66
Ion Ratio Lower Upper
85 100
87 0.0 15.6 46.8#





#3

Chloromethane

Concen: Below Cal

RT: 2.113 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY015083.D

Acq: 14 Aug 2023 16:47

Instrument :

MSVOA_Y

ClientSampleId :

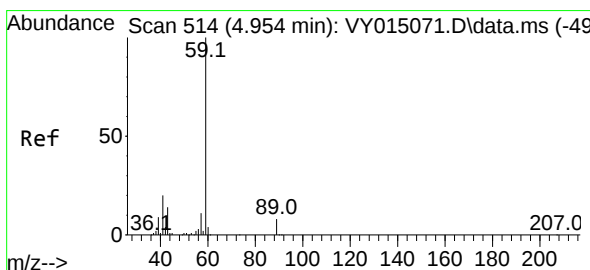
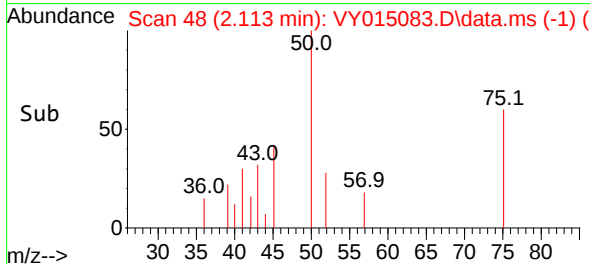
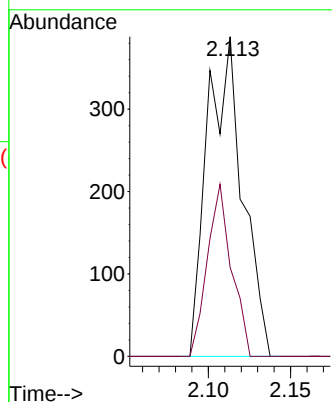
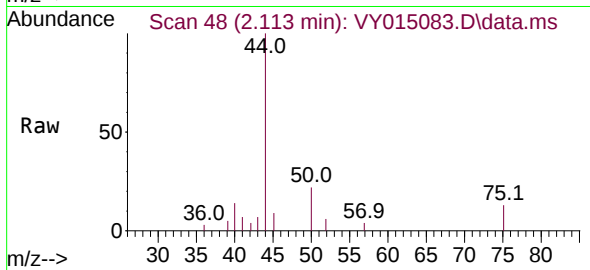
DEAN-OILY-STONE

Tgt Ion: 50 Resp: 579

Ion Ratio Lower Upper

50 100

52 27.8 25.4 38.2



#11

Tert butyl alcohol

Concen: 2.327 ug/l

RT: 4.954 min Scan# 514

Delta R.T. 0.006 min

Lab File: VY015083.D

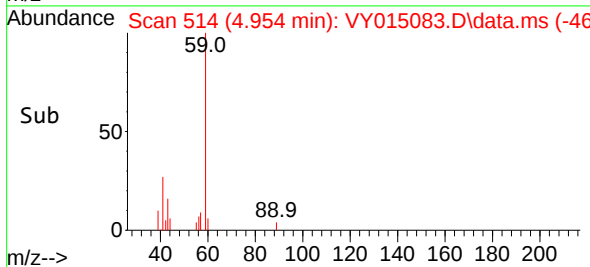
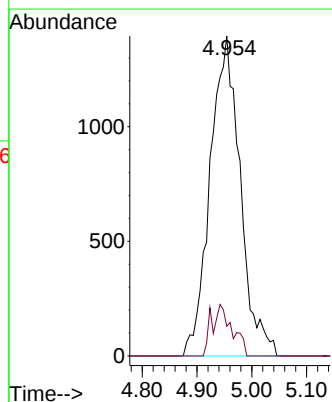
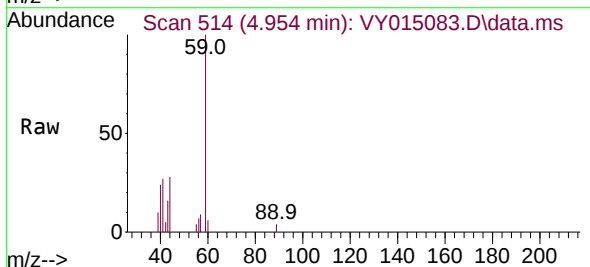
Acq: 14 Aug 2023 16:47

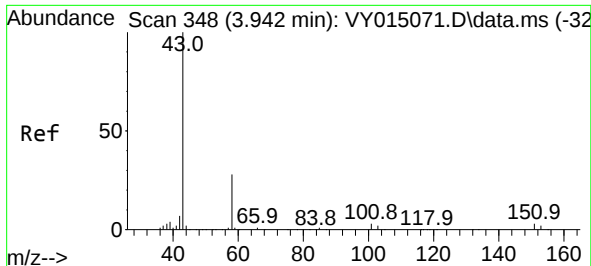
Tgt Ion: 59 Resp: 5326

Ion Ratio Lower Upper

59 100

57 10.9 3.0 4.4#

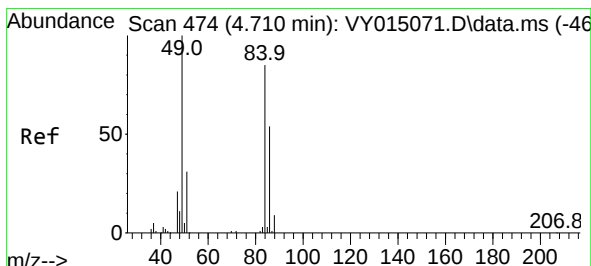
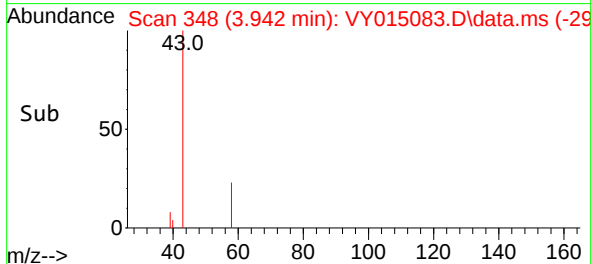
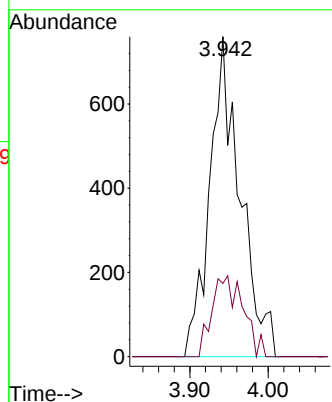
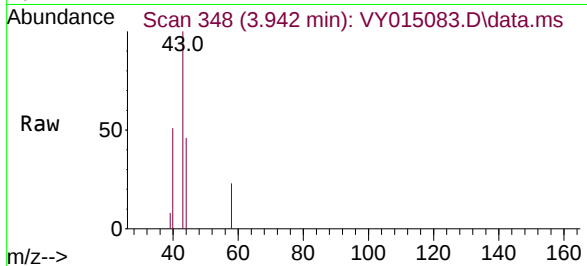




#16
Acetone
Concen: 3.547 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

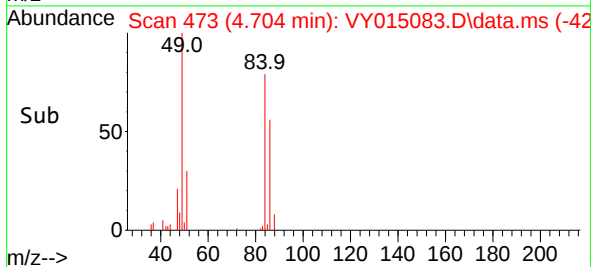
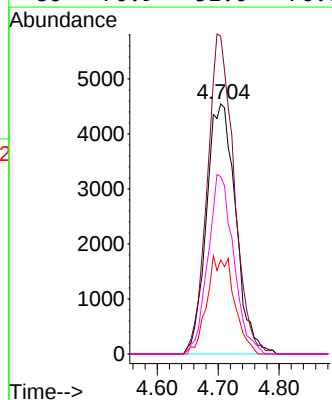
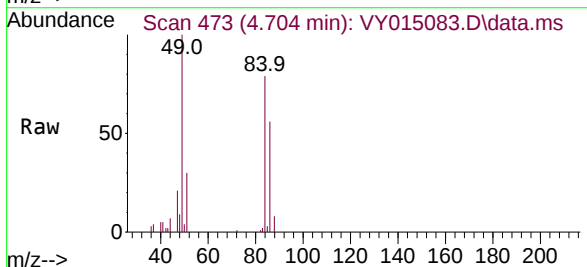
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

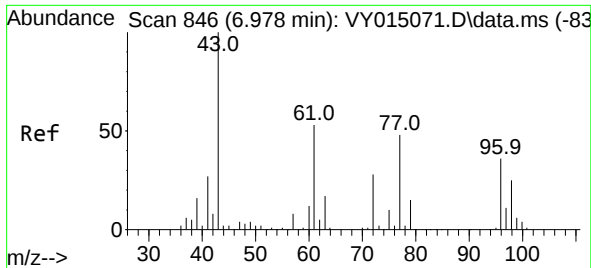
Tgt Ion: 43 Resp: 2040
Ion Ratio Lower Upper
43 100
58 22.9 22.7 34.1



#20
Methylene Chloride
Concen: 7.288 ug/l
RT: 4.704 min Scan# 473
Delta R.T. -0.006 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

Tgt Ion: 84 Resp: 15138
Ion Ratio Lower Upper
84 100
49 127.2 106.9 160.3
51 37.6 33.2 49.8
86 70.9 51.0 76.6

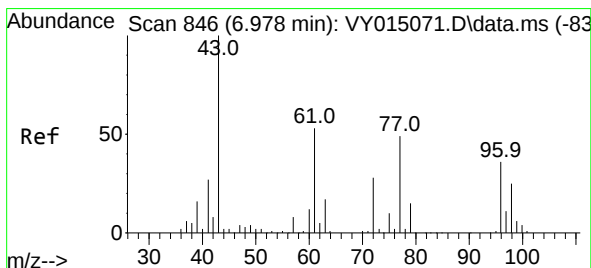
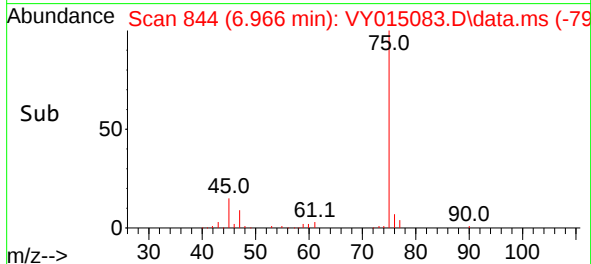
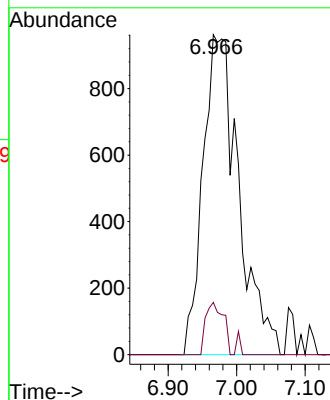
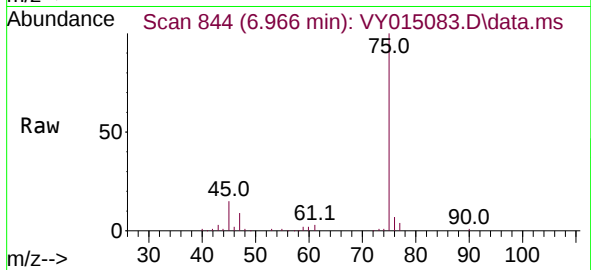




#25
2-Butanone
Concen: 4.283 ug/l
RT: 6.966 min Scan# 844
Delta R.T. -0.012 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

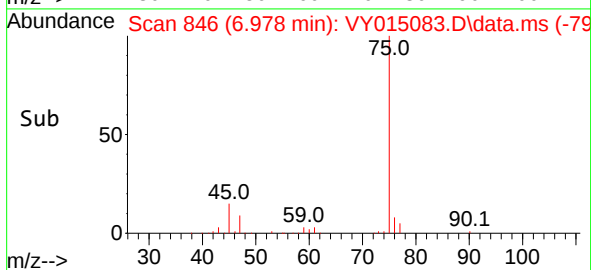
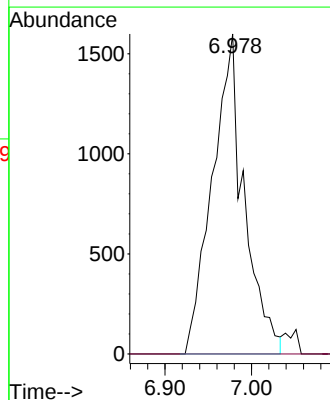
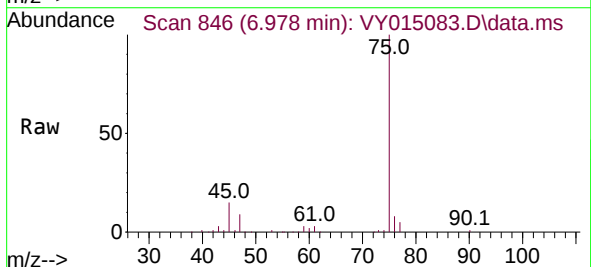
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

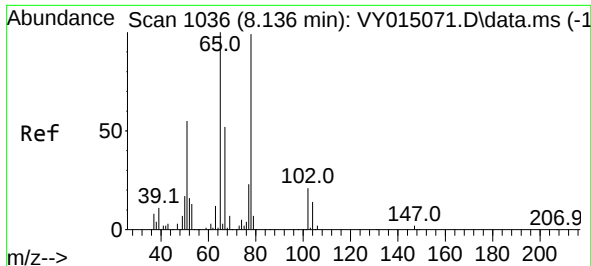
Tgt Ion: 43 Resp: 3487
Ion Ratio Lower Upper
43 100
72 16.3 20.5 30.7#



#26
2,2-Dichloropropane
Concen: 1.735 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.006 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

Tgt Ion: 77 Resp: 4088
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#





#33

1,2-Dichloroethane-d4

Concen: 54.781 ug/l

RT: 8.136 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VY015083.D

Acq: 14 Aug 2023 16:47

Instrument :

MSVOA_Y

ClientSampleId :

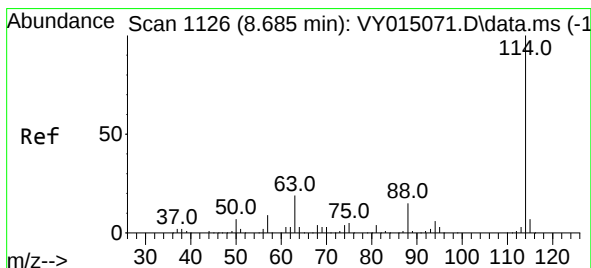
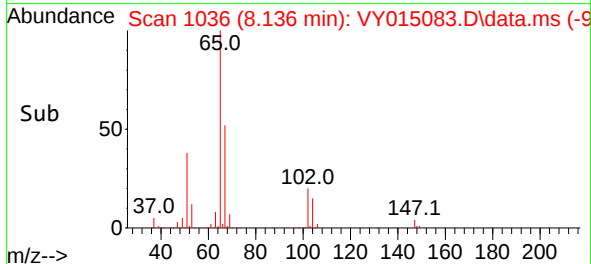
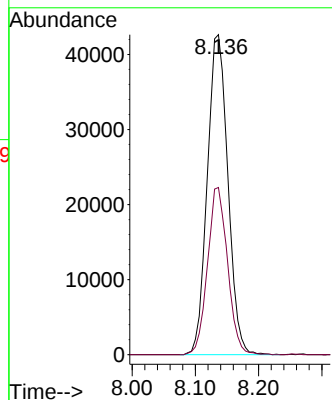
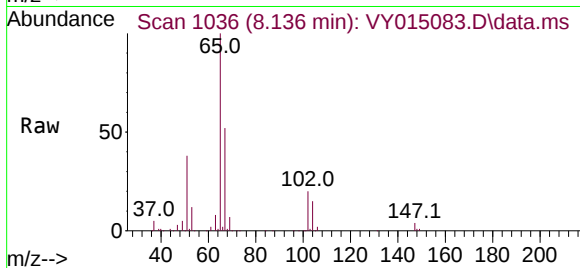
DEAN-OILY-STONE

Tgt Ion: 65 Resp: 96432

Ion Ratio Lower Upper

65 100

67 50.9 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: VY015083.D

Acq: 14 Aug 2023 16:47

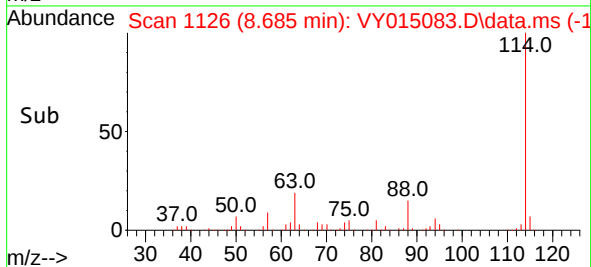
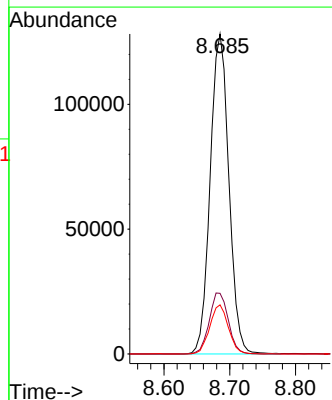
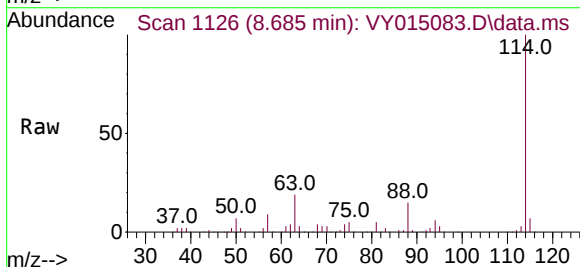
Tgt Ion: 114 Resp: 253443

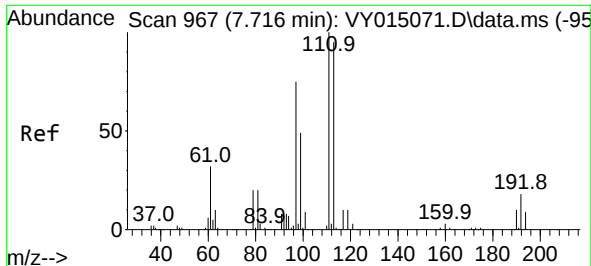
Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.4

88 15.3 0.0 30.6

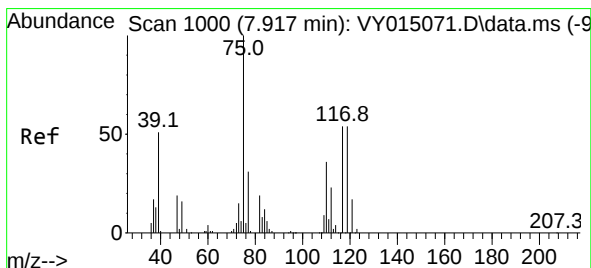
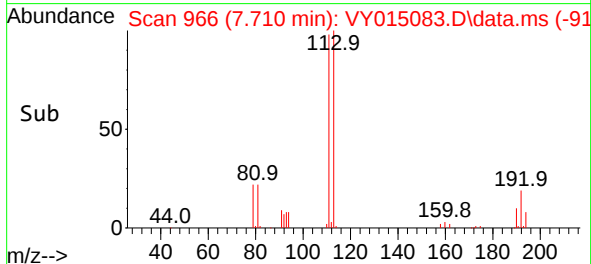
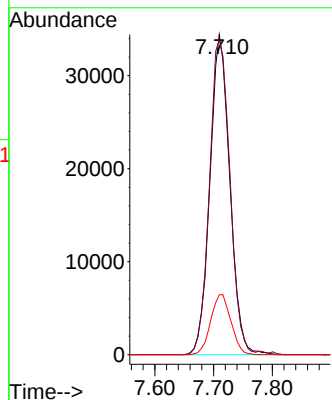
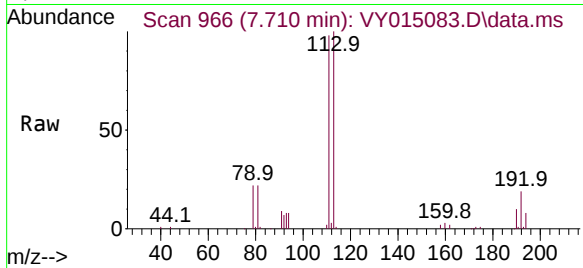




#35
Dibromofluoromethane
Concen: 49.741 ug/l
RT: 7.710 min Scan# 910
Delta R.T. -0.006 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

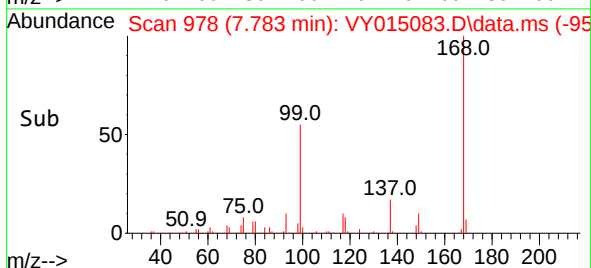
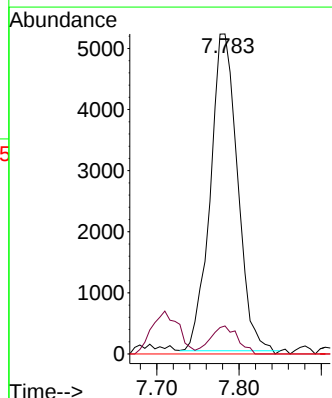
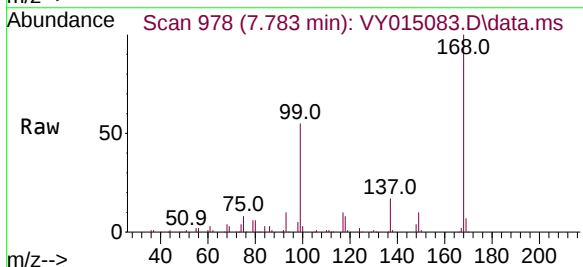
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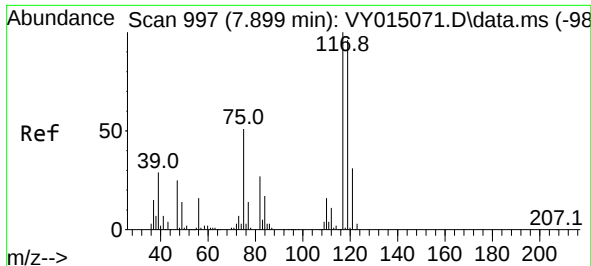
Tgt Ion:113 Resp: 81102
Ion Ratio Lower Upper
113 100
111 102.1 81.3 121.9
192 19.0 16.9 25.3



#36
1,1-Dichloropropene
Concen: 6.620 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

Tgt Ion: 75 Resp: 11941
Ion Ratio Lower Upper
75 100
110 8.8 17.8 53.5#
77 0.0 24.4 36.6#

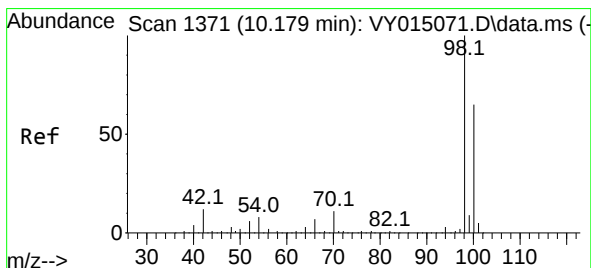
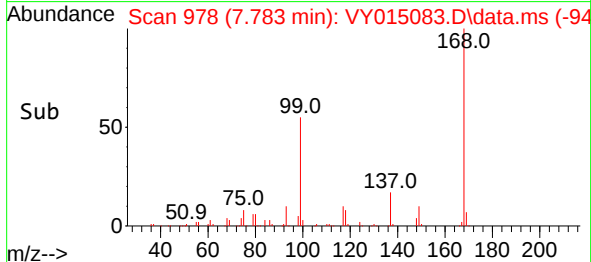
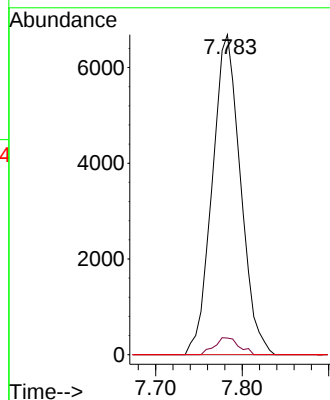
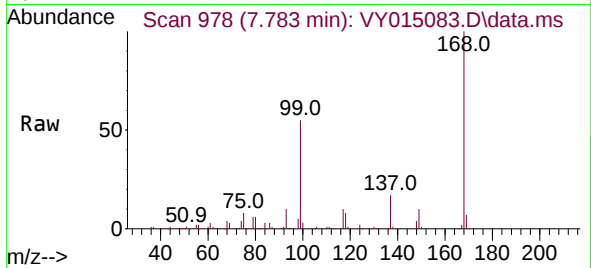




#38
Carbon Tetrachloride
Concen: 7.095 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

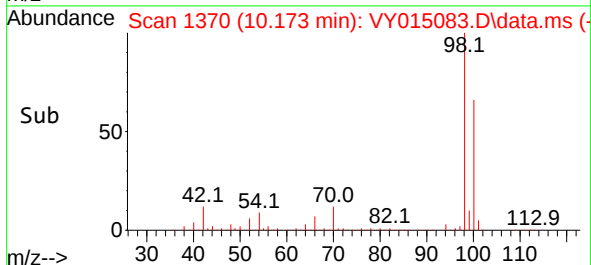
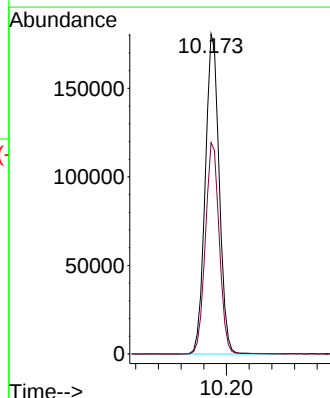
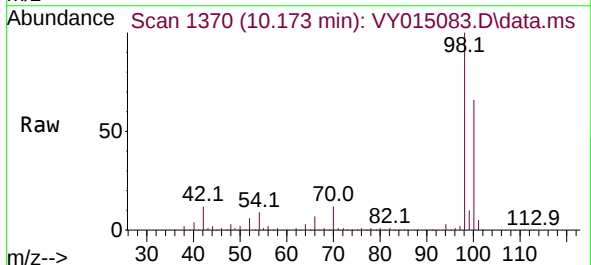
Instrument :
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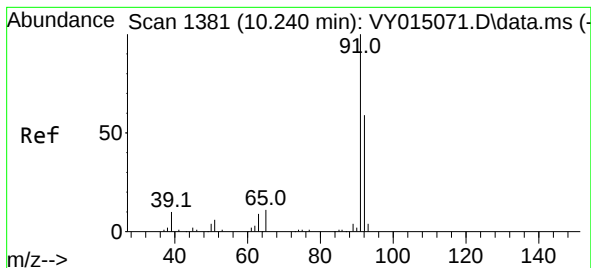
Tgt Ion:117 Resp: 15147
Ion Ratio Lower Upper
117 100
119 5.2 76.4 114.6#
121 0.0 25.8 38.6#



#50
Toluene-d8
Concen: 50.861 ug/l
RT: 10.173 min Scan# 1370
Delta R.T. -0.006 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

Tgt Ion: 98 Resp: 308704
Ion Ratio Lower Upper
98 100
100 65.6 50.1 75.1





#52

Toluene

Concen: 1.894 ug/l

RT: 10.240 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VY015083.D

Acq: 14 Aug 2023 16:47

Instrument :

MSVOA_Y

ClientSampleId :

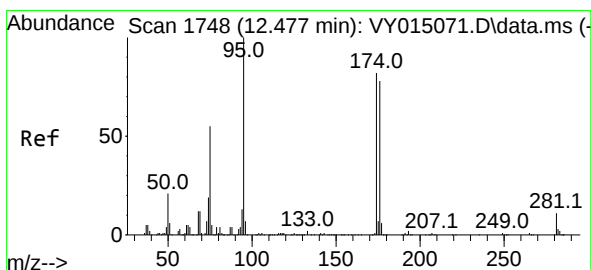
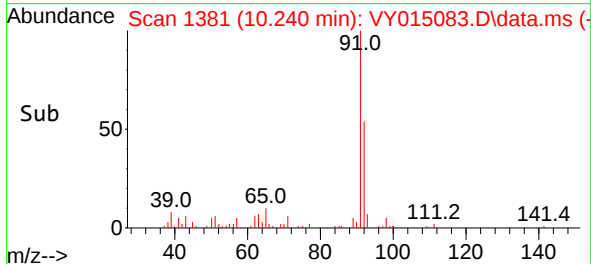
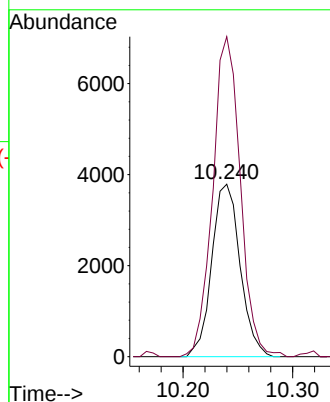
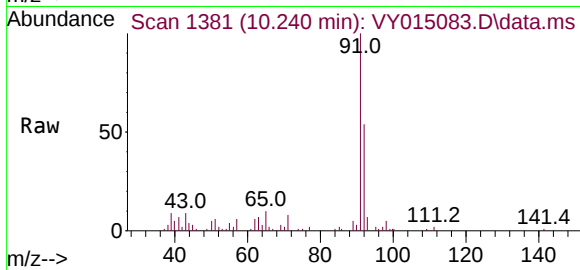
DEAN-OILY-STONE

Tgt Ion: 92 Resp: 6809

Ion Ratio Lower Upper

92 100

91 180.7 143.8 215.6



#62

4-Bromofluorobenzene

Concen: 53.540 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.000 min

Lab File: VY015083.D

Acq: 14 Aug 2023 16:47

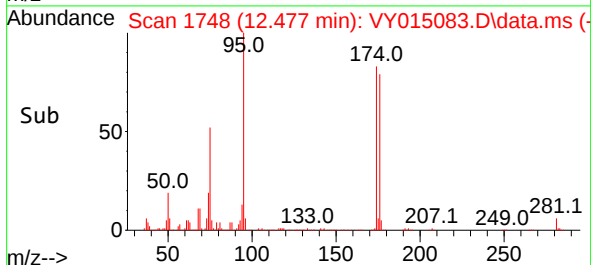
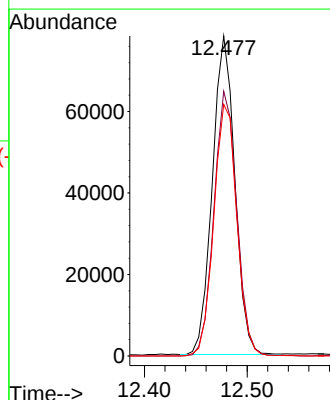
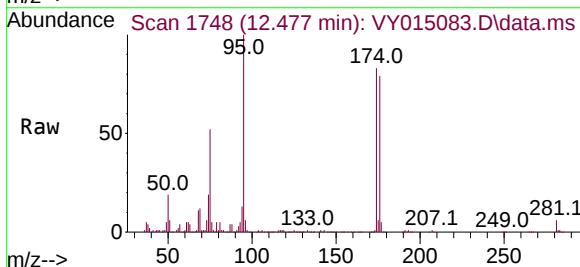
Tgt Ion: 95 Resp: 118693

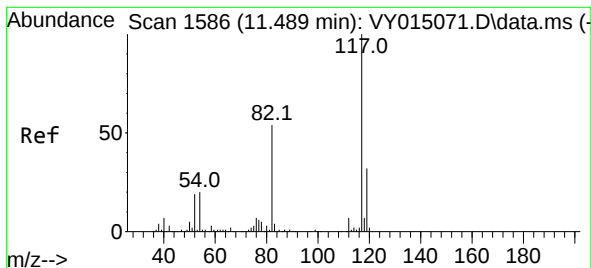
Ion Ratio Lower Upper

95 100

174 84.4 0.0 178.2

176 81.1 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: VY015083.D

Acq: 14 Aug 2023 16:47

Instrument :

MSVOA_Y

ClientSampleId :

DEAN-OILY-STONE

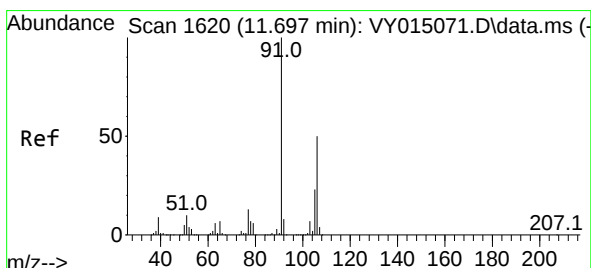
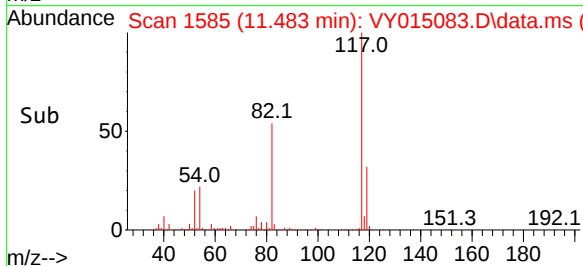
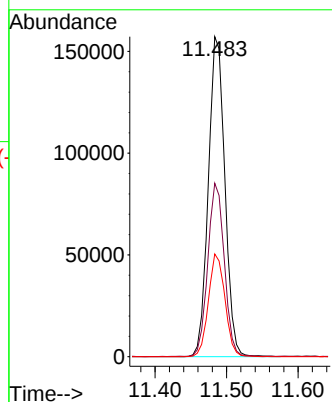
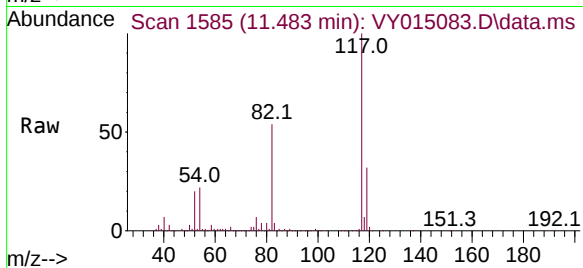
Tgt Ion:117 Resp: 252687

Ion Ratio Lower Upper

117 100

82 54.1 43.4 65.0

119 32.1 26.3 39.5



#68

m/p-Xylenes

Concen: 2.227 ug/l

RT: 11.691 min Scan# 1619

Delta R.T. -0.006 min

Lab File: VY015083.D

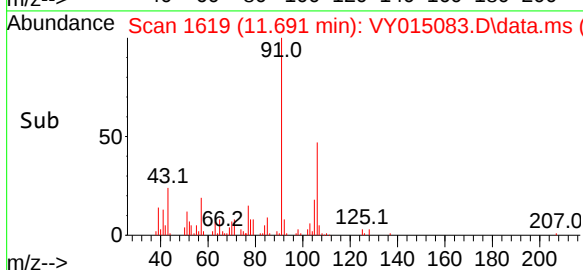
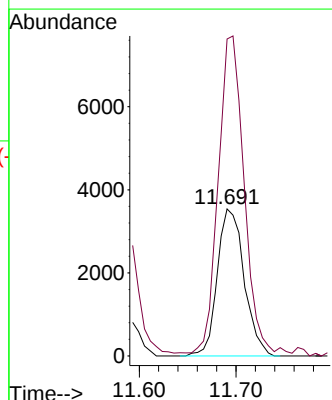
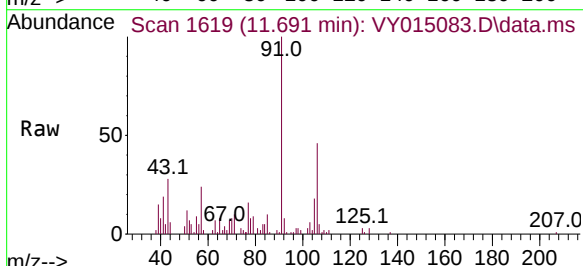
Acq: 14 Aug 2023 16:47

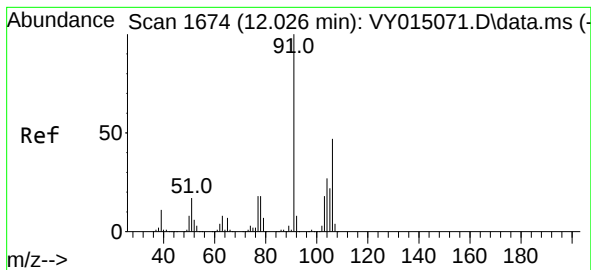
Tgt Ion:106 Resp: 6824

Ion Ratio Lower Upper

106 100

91 207.2 166.1 249.1





#69

o-Xylene

Concen: 1.672 ug/l

RT: 12.026 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015083.D

Acq: 14 Aug 2023 16:47

Instrument :

MSVOA_Y

ClientSampleId :

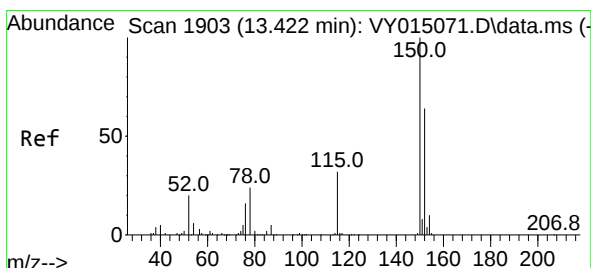
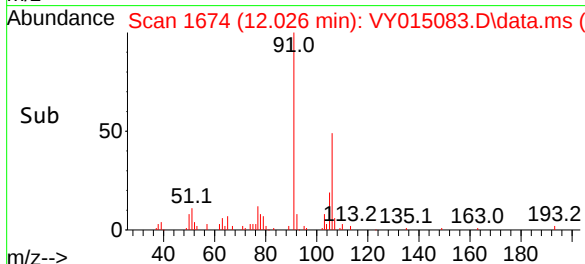
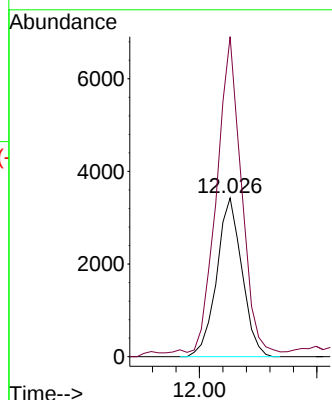
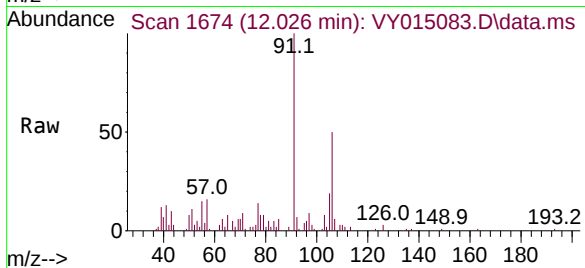
DEAN-OILY-STONE

Tgt Ion:106 Resp: 5103

Ion Ratio Lower Upper

106 100

91 197.6 108.1 324.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY015083.D

Acq: 14 Aug 2023 16:47

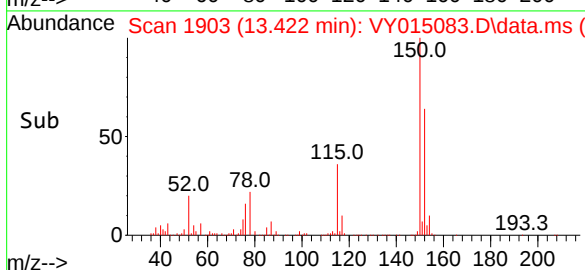
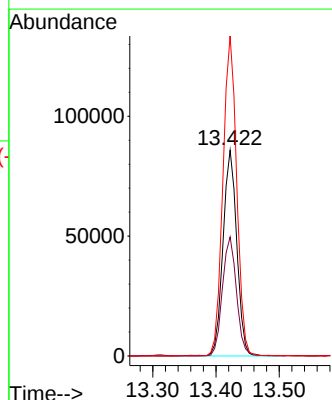
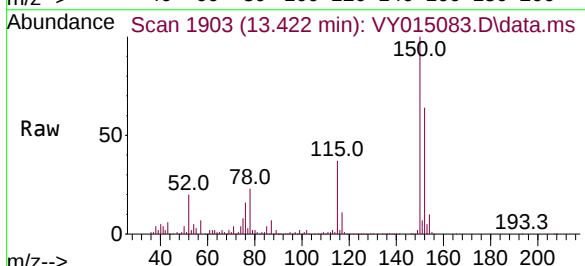
Tgt Ion:152 Resp: 129167

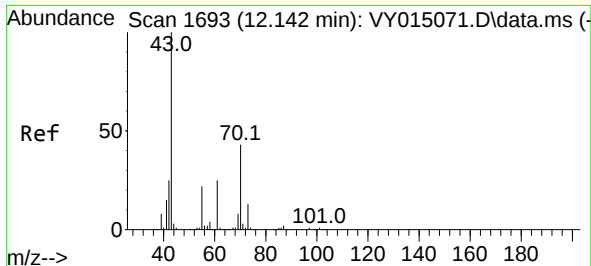
Ion Ratio Lower Upper

152 100

115 58.8 28.8 86.5

150 155.4 0.0 348.8

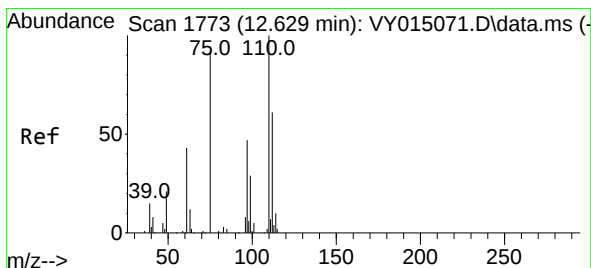
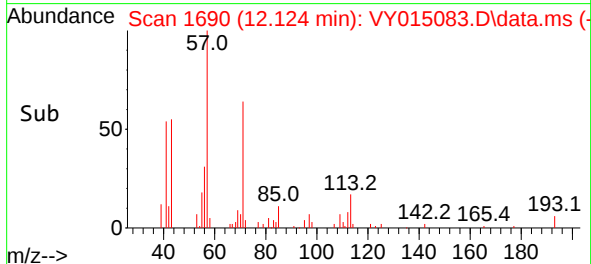
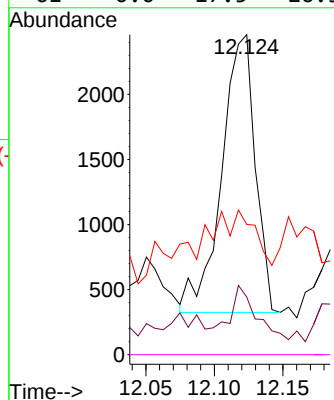
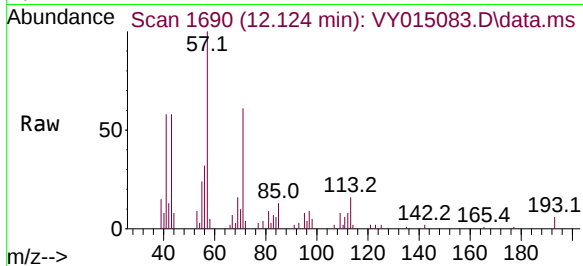




#74
N-amy1 acetate
Concen: 1.214 ug/l
RT: 12.124 min Scan# 1748
Delta R.T. -0.018 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

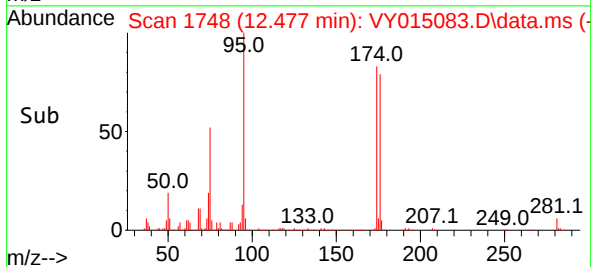
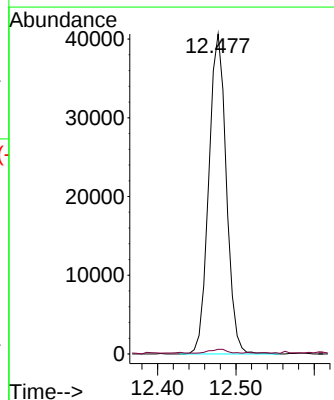
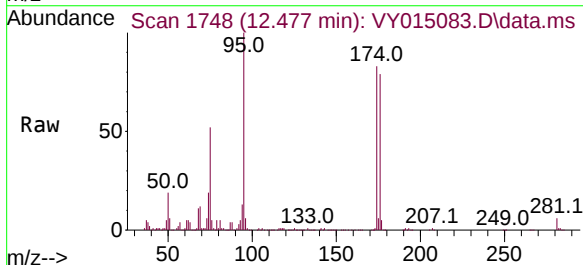
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

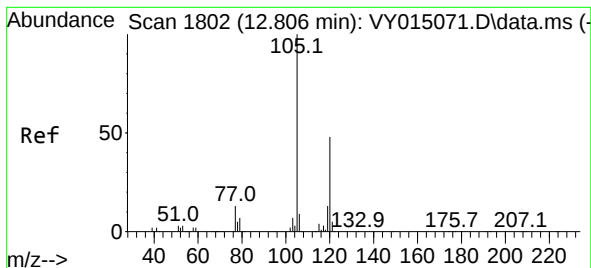
Tgt Ion: 43	Resp: 3640
Ion Ratio	Lower Upper
43 100	
70 14.5	29.7 44.5#
55 23.2	18.3 27.5
61 0.0	17.5 26.3#



#76
1,2,3-Trichloropropane
Concen: 40.156 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.152 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

Tgt Ion: 75	Resp: 63016
Ion Ratio	Lower Upper
75 100	
77 1.2	0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 1.998 ug/l

RT: 12.812 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015083.D

Acq: 14 Aug 2023 16:47

Instrument :

MSVOA_Y

ClientSampleId :

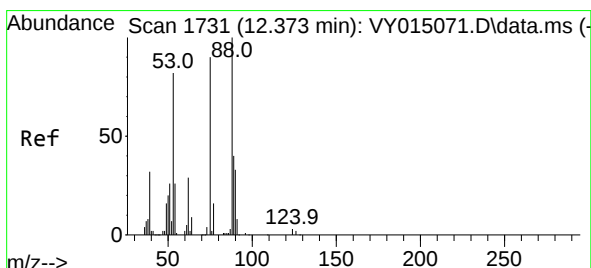
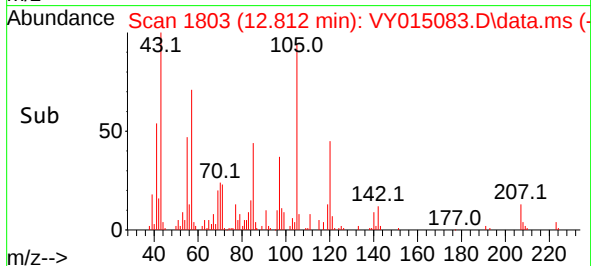
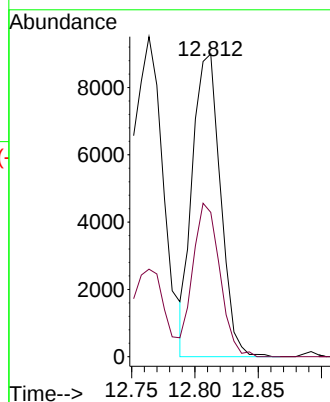
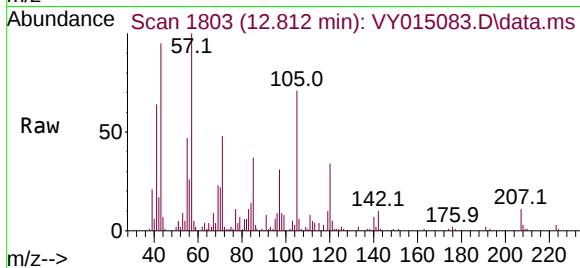
DEAN-OILY-STONE

Tgt Ion:105 Resp: 13835

Ion Ratio Lower Upper

105 100

120 48.7 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 88.202 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.104 min

Lab File: VY015083.D

Acq: 14 Aug 2023 16:47

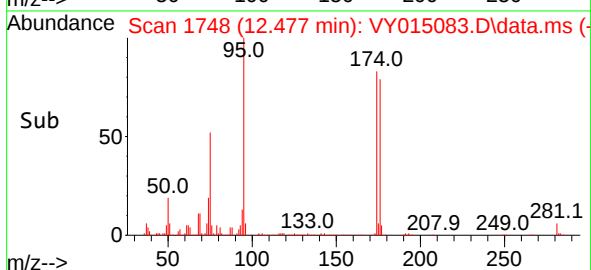
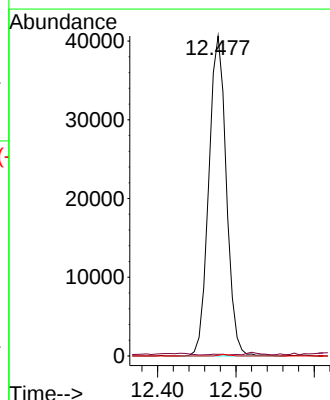
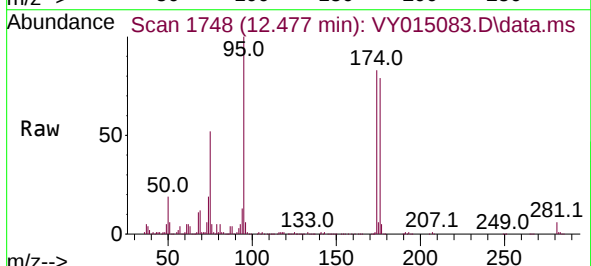
Tgt Ion: 75 Resp: 63016

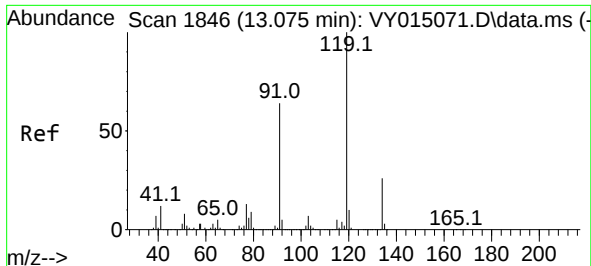
Ion Ratio Lower Upper

75 100

53 0.2 77.8 116.8#

89 0.3 37.4 56.0#

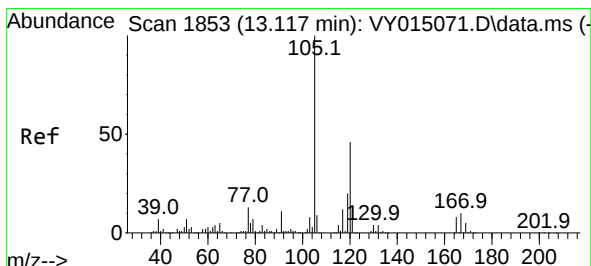
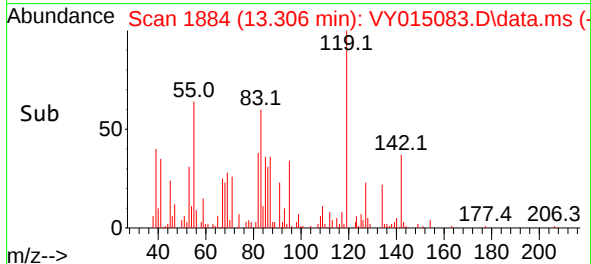
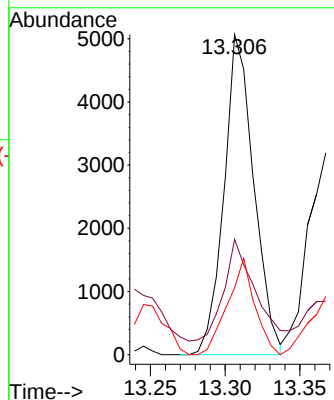
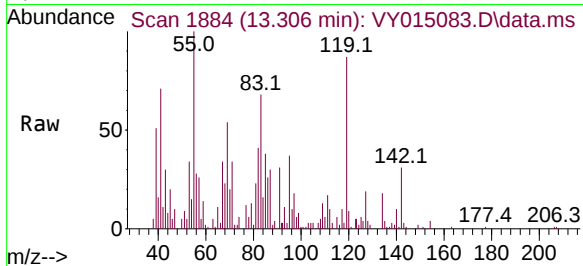




#83
tert-Butylbenzene
Concen: 1.110 ug/l
RT: 13.306 min Scan# 1884
Delta R.T. 0.232 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

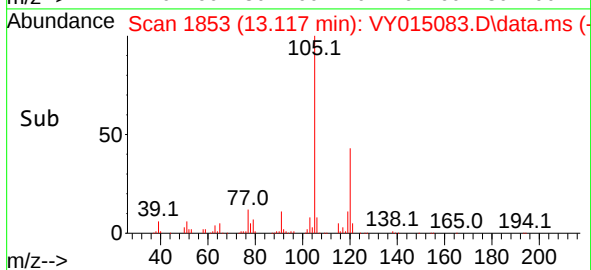
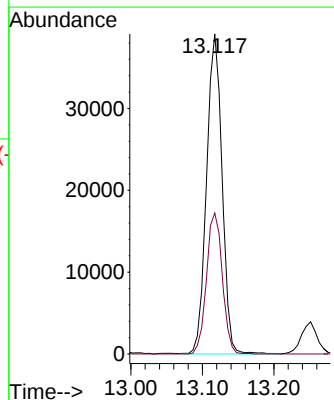
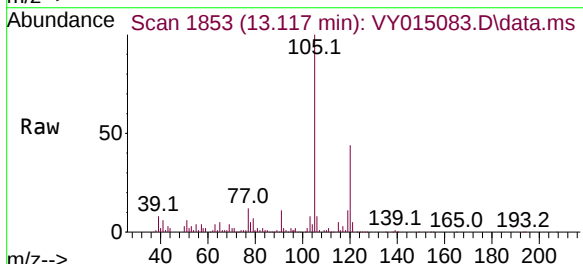
Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

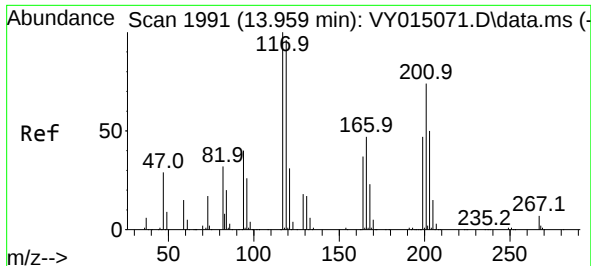
Tgt Ion:119	Resp:	7028
Ion Ratio	Lower	Upper
119	100	
91	33.0	32.9 98.6
134	27.4	13.0 38.9



#84
1,2,4-Trimethylbenzene
Concen: 8.528 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

Tgt Ion:105	Resp:	58997
Ion Ratio	Lower	Upper
105	100	
120	44.8	22.2 66.6

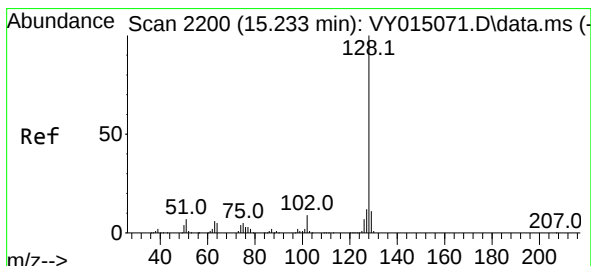
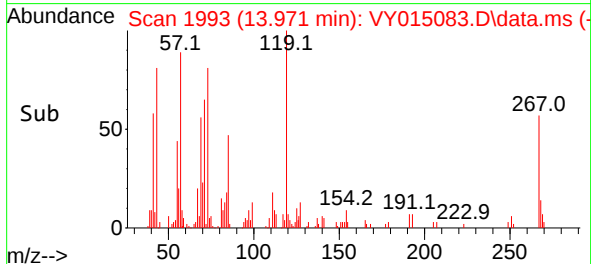
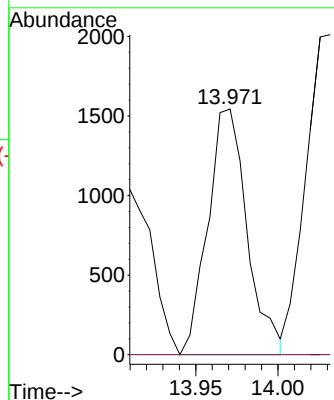
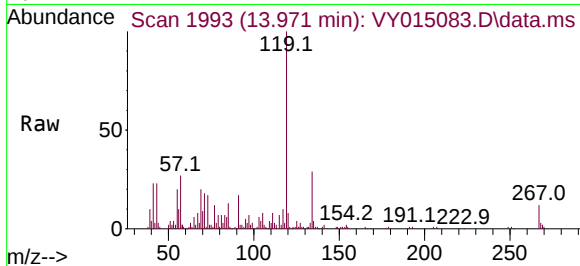




#90
Hexachloroethane
Concen: 1.679 ug/l
RT: 13.971 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

Instrument :
MSVOA_Y
ClientSampleId :
DEAN-OILY-STONE

Tgt Ion:117 Resp: 2563
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#



#95
Naphthalene
Concen: 3.195 ug/l
RT: 15.233 min Scan# 2200
Delta R.T. 0.000 min
Lab File: VY015083.D
Acq: 14 Aug 2023 16:47

Tgt Ion:128 Resp: 19167
Ion Ratio Lower Upper
128 100
127 16.4 10.8 16.2#
129 13.8 8.6 13.0#

