

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN112718\
 Data File : VN052487.D
 Acq On : 27 Nov 2018 19:00
 Operator : MD\SY
 Sample : J6065-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 OILY-SOIL

Manual Integrations
 APPROVED

MMDadoda
 11/29/2018 3:49:38 PM

Quant Time: Nov 28 06:58:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 28 01:11:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1351445	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2050318	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1720255	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	796568	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	681396	46.31	ug/l	0.00
Spiked Amount			Recovery	=	92.62%	
35) Dibromofluoromethane	7.59	113	614622	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
50) Toluene-d8	10.09	98	2507434	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
62) 4-Bromofluorobenzene	12.40	95	1116482	67.53	ug/l	0.00
Spiked Amount			Recovery	=	135.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	549217	141.51	ug/l	98
20) Methylene Chloride	4.55	84	1628935	107.25	ug/l	99
25) 2-Butanone	6.83	43	889588	161.71	ug/l	99
31) Cyclohexane	7.65	56	5246079	208.28	ug/l	99
39) Methylcyclohexane	9.08	83	4409146	187.36	ug/l	100
40) Benzene	8.02	78	34346167m	595.24	ug/l	
42) 1,2-Dichloroethane	8.12	62	1775601	101.63	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	1101139	98.14	ug/l	98
52) Toluene	10.14	92	35957774m	1048.85	ug/l	
59) 2-Hexanone	10.75	43	2756635	366.08	ug/l	86
61) 1,2-Dibromoethane	11.01	107	57316	4.79	ug/l #	63
67) Ethyl Benzene	11.50	91	24481627m	394.12	ug/l	
68) m/p-Xylenes	11.60	106	32114497m	1388.76	ug/l	
69) o-Xylene	11.94	106	24718099m	1100.74	ug/l	
73) Isopropylbenzene	12.25	105	2639782	42.24	ug/l	99
78) n-propylbenzene	12.59	91	8453714	119.07	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	16694989m	334.95	ug/l	
84) 1,2,4-Trimethylbenzene	13.03	105	24890815m	498.31	ug/l	
85) sec-Butylbenzene	13.17	105	410177	6.78	ug/l #	61
86) p-Isopropyltoluene	13.29	119	303418m	5.89	ug/l	
89) n-Butylbenzene	13.62	91	678068m	15.82	ug/l	
95) Naphthalene	15.12	128	20978380m	654.97	ug/l	

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

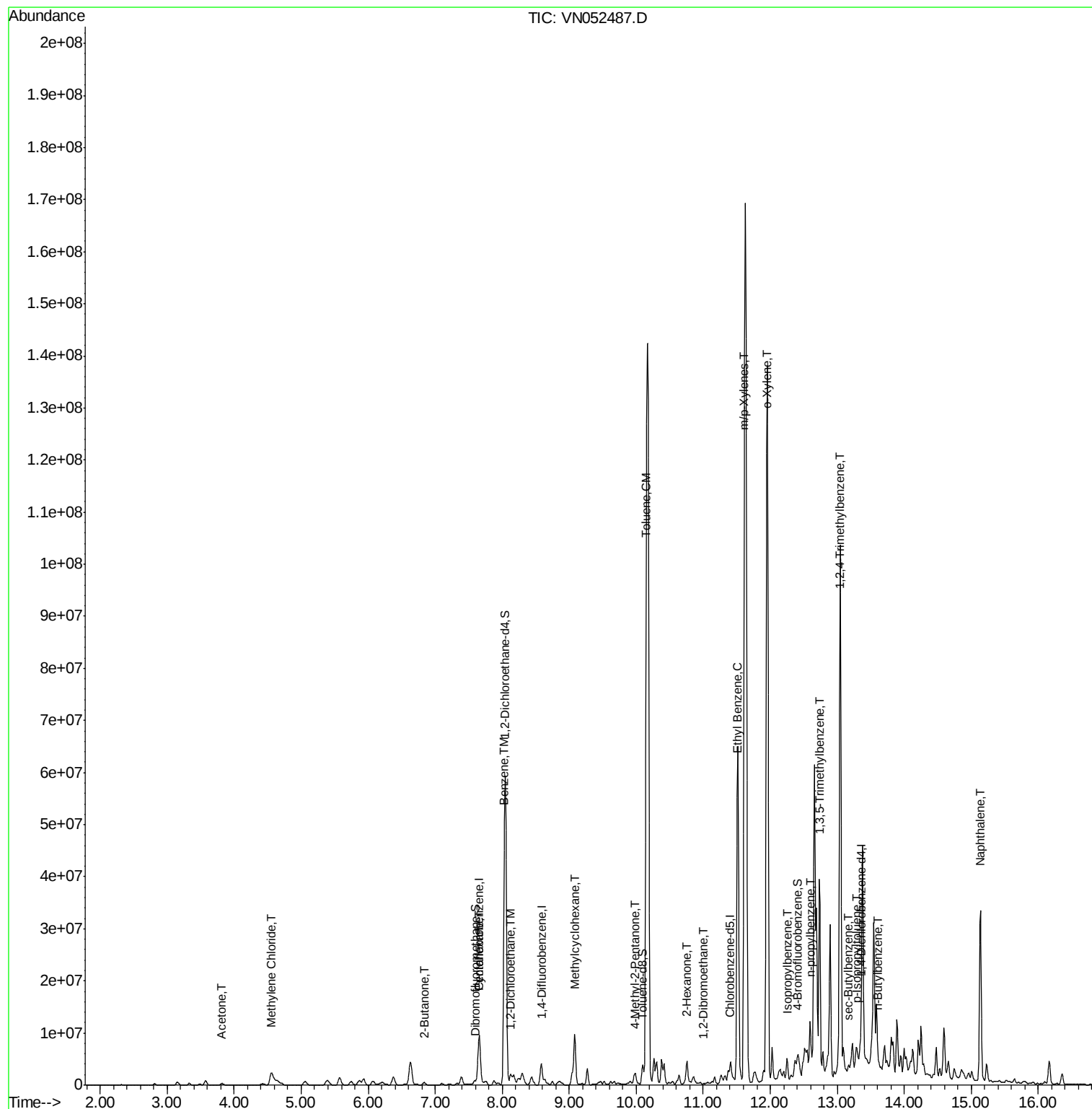
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN112718\
Data File : VN052487.D
Acq On : 27 Nov 2018 19:00
Operator : MD\SY
Sample : J6065-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 28

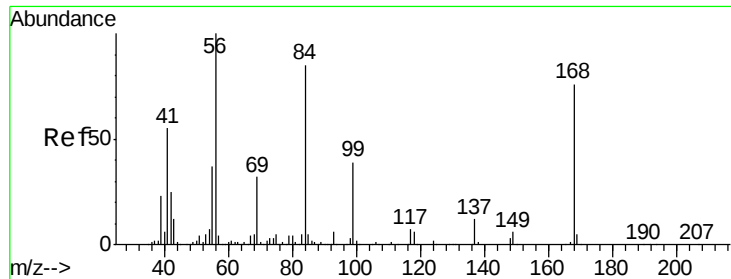
Instrument :
MSVOA_N
ClientSampleId :
OILY-SOIL

Manual Integrations
APPROVED

MMDadoda
11/29/2018 3:49:38 PM

Quant Time: Nov 28 06:58:33 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 28 01:11:38 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052487.D

Acq: 27 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

OILY-SOIL

Tgt Ion:168 Resp: 1351445

Ion Ratio Lower Upper

168 100

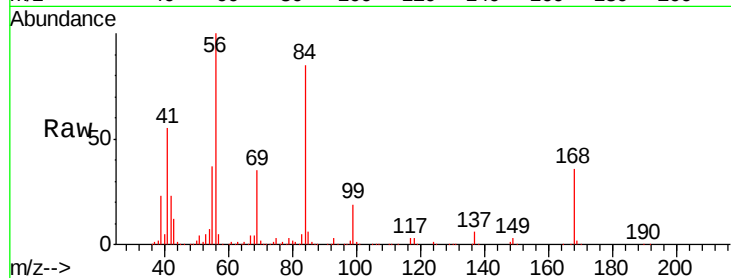
99 52.2 41.7 62.5

Manual Integrations

APPROVED

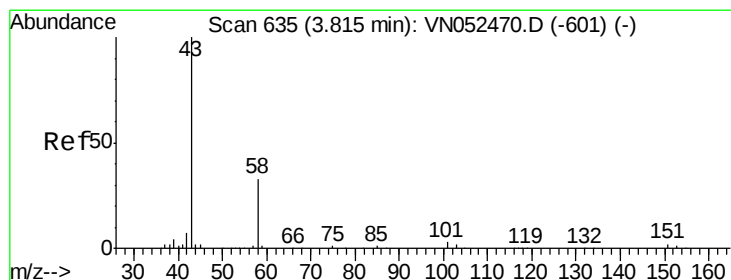
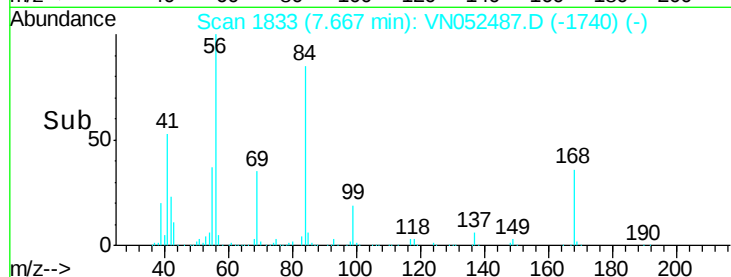
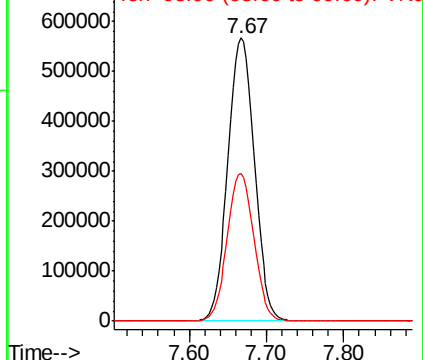
MMDadoda

11/29/2018 3:49:38 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 141.51 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052487.D

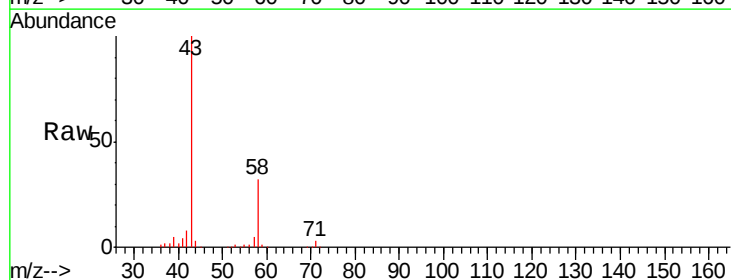
Acq: 27 Nov 2018 19:00

Tgt Ion: 43 Resp: 549217

Ion Ratio Lower Upper

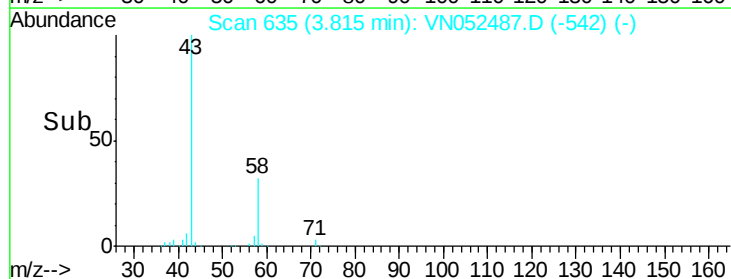
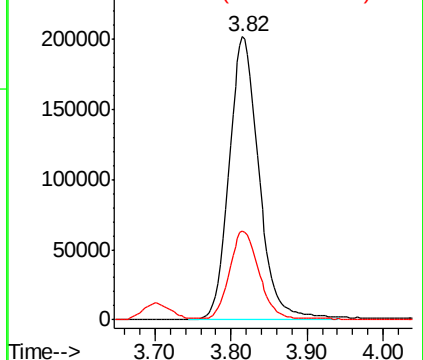
43 100

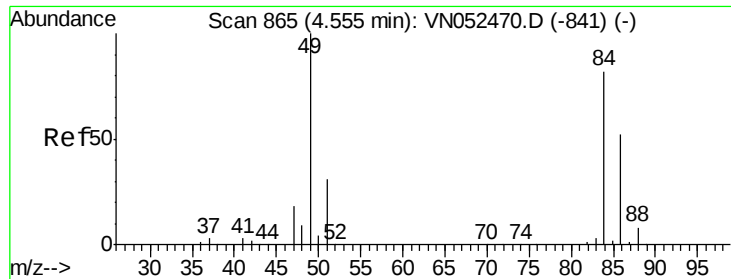
58 31.1 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#20

Methylene Chloride

Concen: 107.25 ug/l

RT: 4.55 min Scan# 865

Delta R.T. -0.00 min

Lab File: VN052487.D

Acq: 27 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

OILY-SOIL

Tgt Ion: 84 Resp: 1628935

Ion Ratio Lower Upper

84 100

49 123.3 98.0 147.0

51 38.7 30.1 45.1

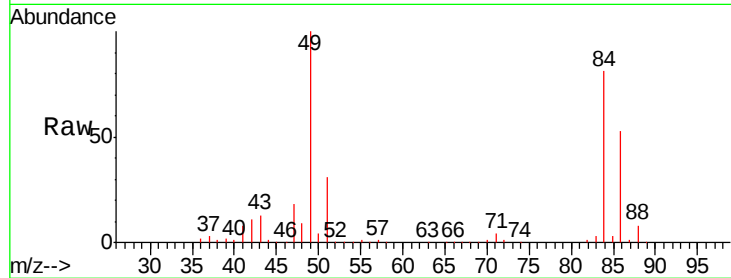
86 65.0 50.7 76.1

Manual Integrations

APPROVED

MMDadoda

11/29/2018 3:49:38 PM



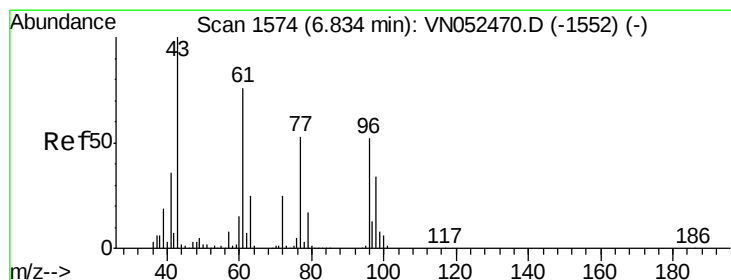
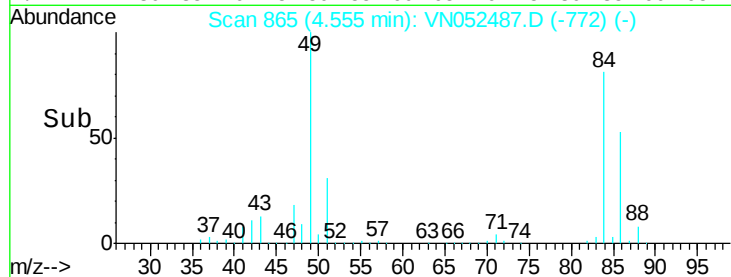
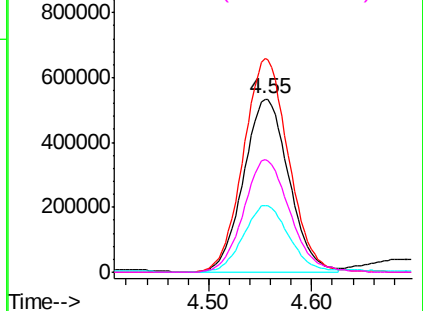
Abundance

Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 161.71 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VN052487.D

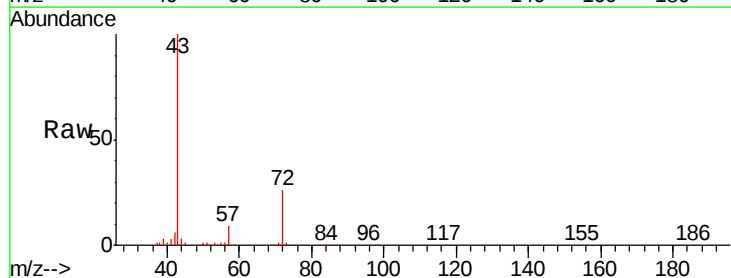
Acq: 27 Nov 2018 19:00

Tgt Ion: 43 Resp: 889588

Ion Ratio Lower Upper

43 100

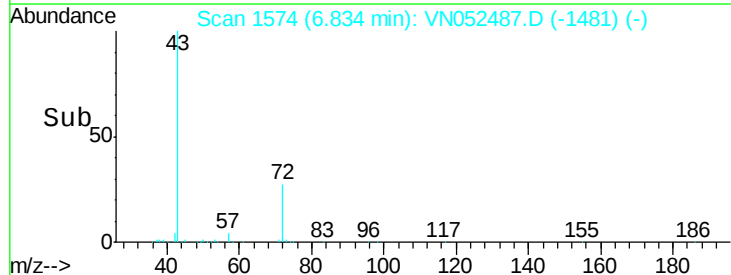
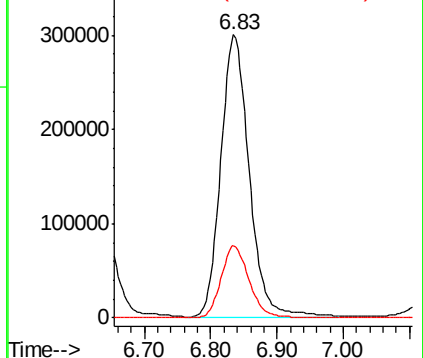
72 25.8 20.1 30.1

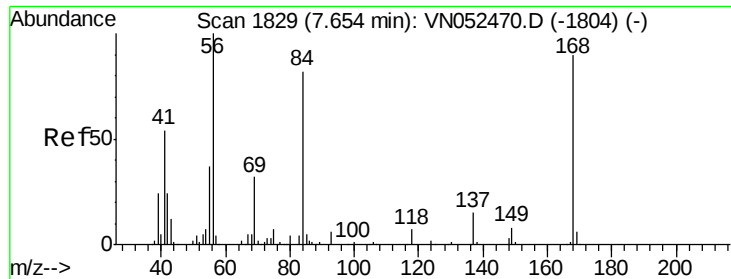


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 208.28 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN052487.D

Acq: 27 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampled :

OILY-SOIL

Tgt Ion: 56 Resp: 5246079

Ion Ratio Lower Upper

56 100

69 30.7 25.8 38.6

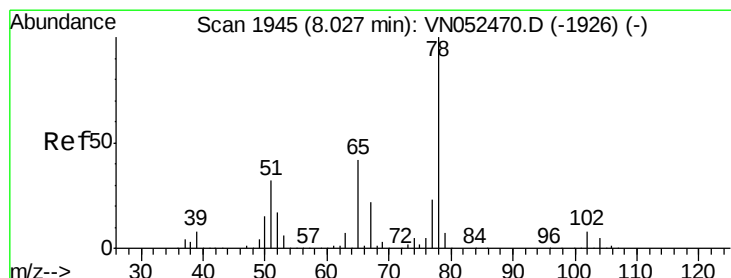
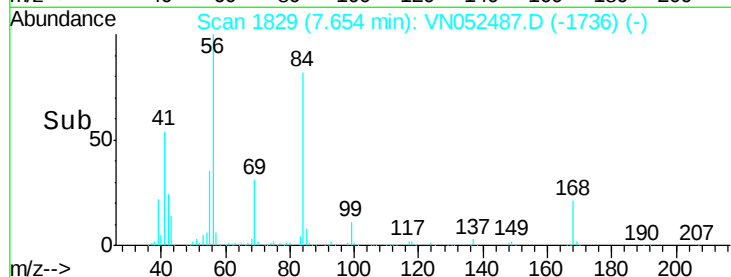
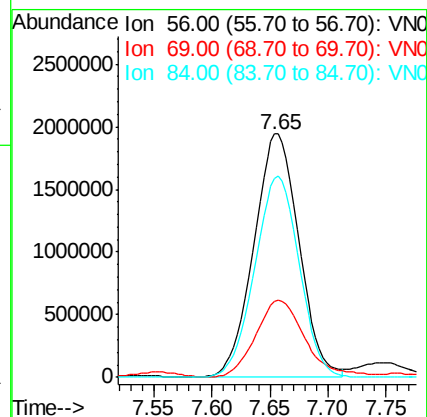
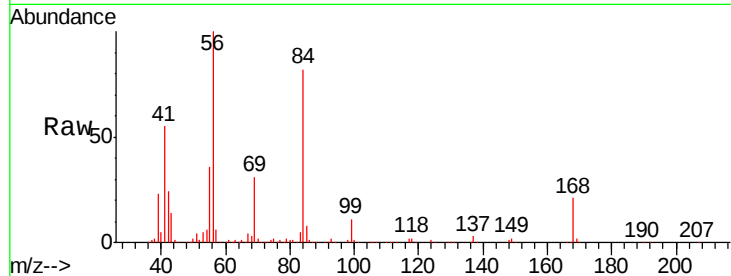
84 82.0 65.3 97.9

Manual Integrations

APPROVED

MMDadoda

11/29/2018 3:49:38 PM



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052487.D

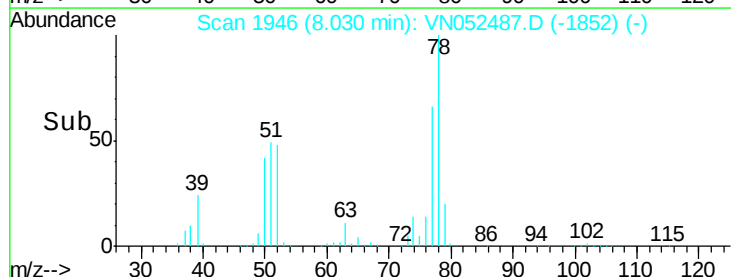
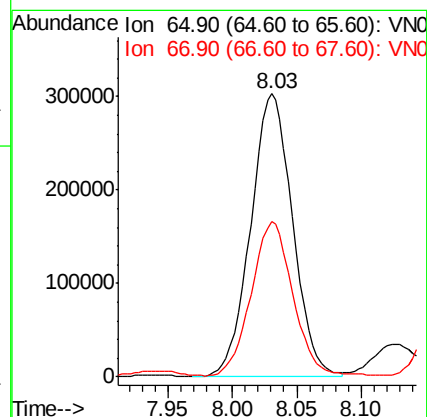
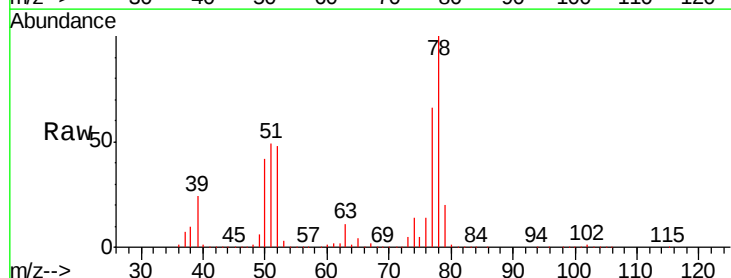
Acq: 27 Nov 2018 19:00

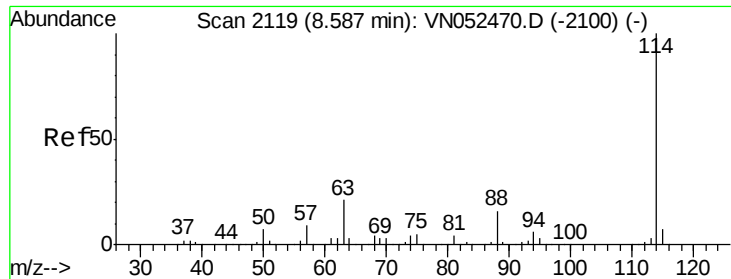
Tgt Ion: 65 Resp: 681396

Ion Ratio Lower Upper

65 100

67 54.5 0.0 109.8





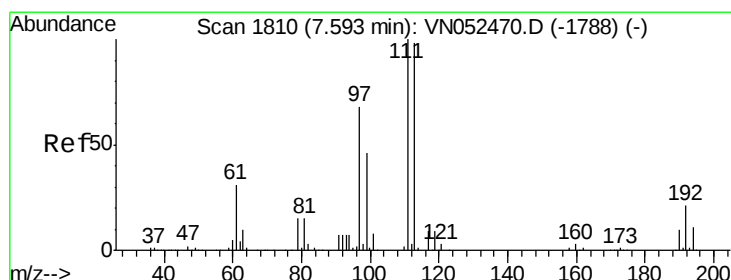
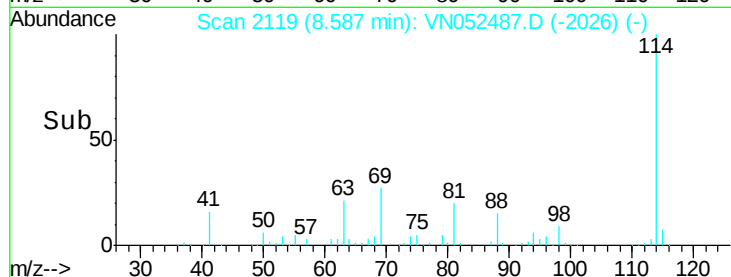
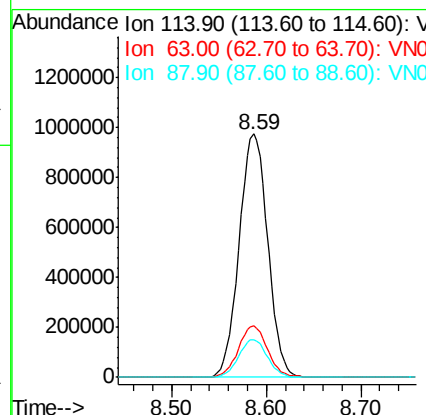
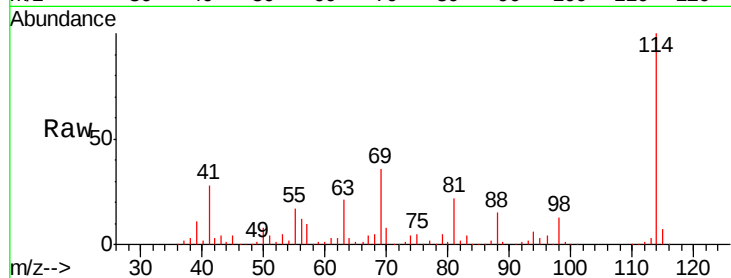
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN052487.D
Acq: 27 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
OILY-SOIL

Tgt Ion:114 Resp: 2050318
Ion Ratio Lower Upper
114 100
63 21.1 0.0 41.8
88 15.4 0.0 31.6

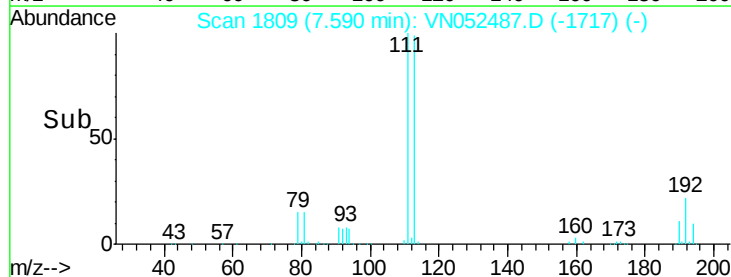
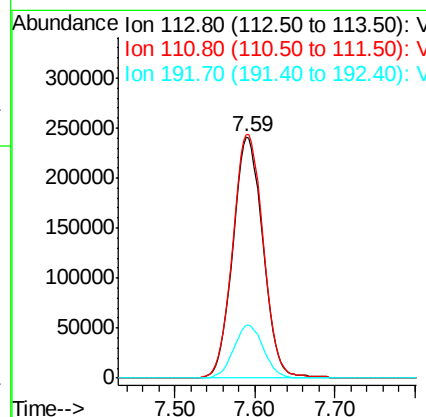
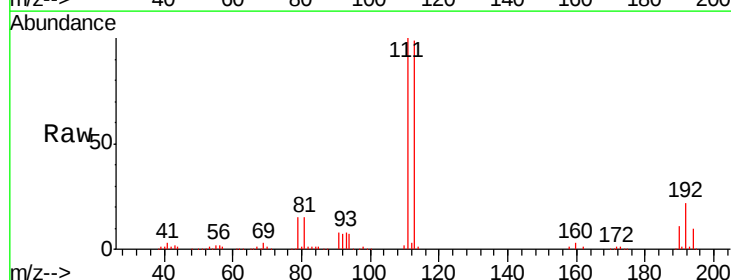
Manual Integrations
APPROVED

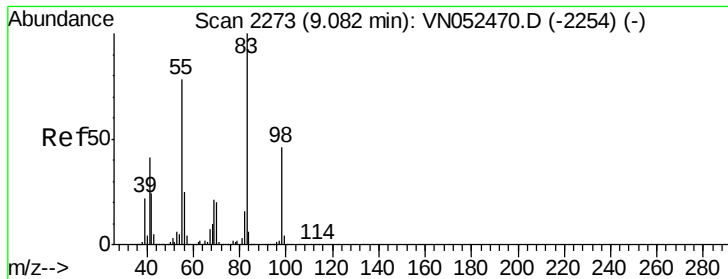
MMDadoda
11/29/2018 3:49:38 PM



#35
Dibromofluoromethane
Concen: 50.00 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN052487.D
Acq: 27 Nov 2018 19:00

Tgt Ion:113 Resp: 614622
Ion Ratio Lower Upper
113 100
111 102.7 82.0 123.0
192 21.8 17.0 25.6





#39

Methylcyclohexane

Concen: 187.36 ug/l

RT: 9.08 min Scan# 2273

Delta R.T. -0.00 min

Lab File: VN052487.D

Acq: 27 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

OILY-SOIL

Tgt Ion: 83 Resp: 4409146

Ion Ratio Lower Upper

83 100

55 77.9 62.2 93.2

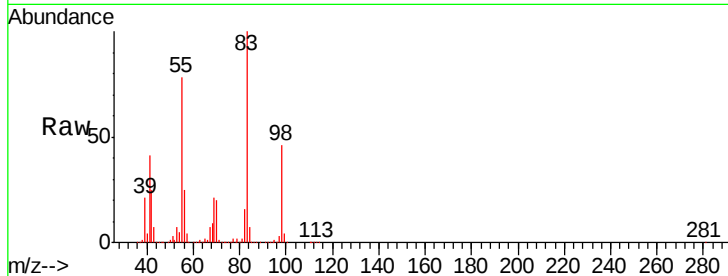
98 45.6 36.4 54.6

Manual Integrations

APPROVED

MMDadoda

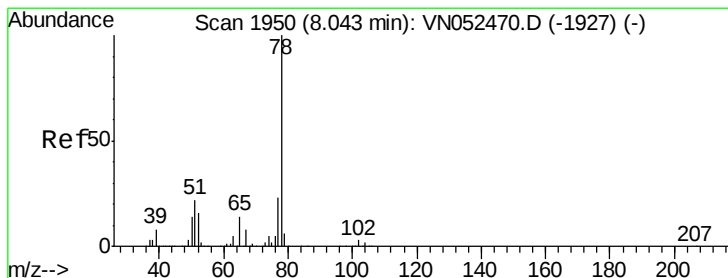
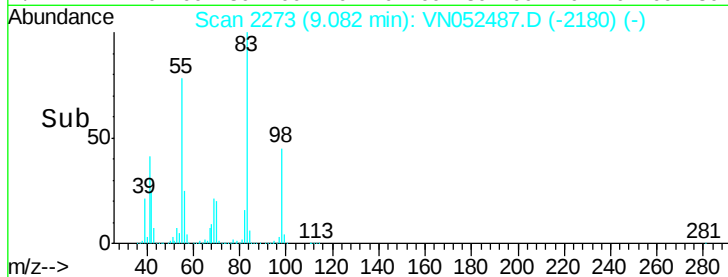
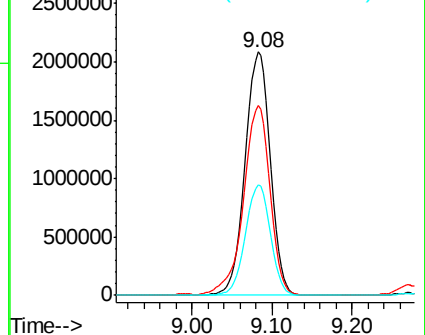
11/29/2018 3:49:38 PM



Abundance Ion 83.00 (82.70 to 83.70): VN052470.D (-2254) (-)

Ion 55.00 (54.70 to 55.70): VN052470.D (-2254) (-)

Ion 98.00 (97.70 to 98.70): VN052470.D (-2254) (-)



#40

Benzene

Concen: 595.24 ug/l m

RT: 8.02 min Scan# 1943

Delta R.T. -0.02 min

Lab File: VN052487.D

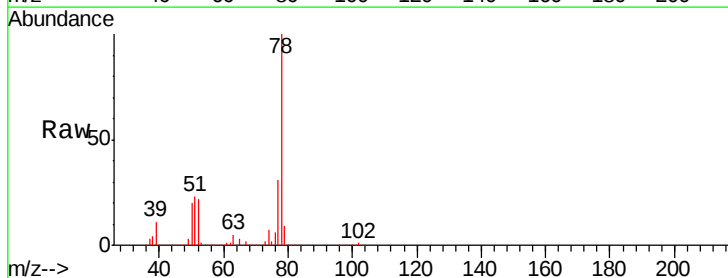
Acq: 27 Nov 2018 19:00

Tgt Ion: 78 Resp: 34346167

Ion Ratio Lower Upper

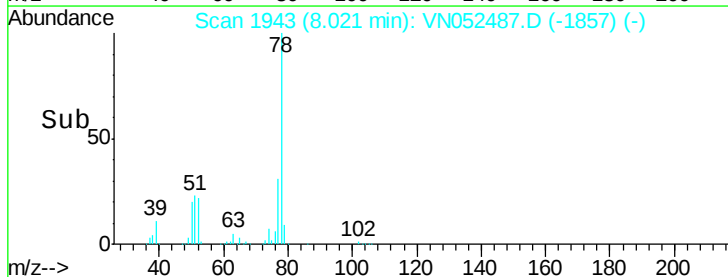
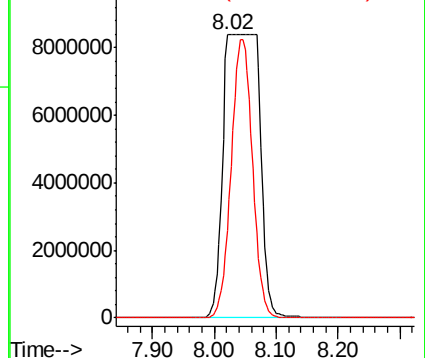
78 100

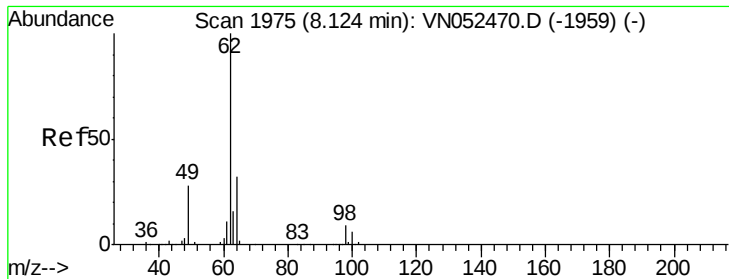
77 30.9 18.8 28.2#



Abundance Ion 78.00 (77.70 to 78.70): VN052470.D (-1927) (-)

Ion 77.00 (76.70 to 77.70): VN052470.D (-1927) (-)





#42

1,2-Dichloroethane

Concen: 101.63 ug/l

RT: 8.12 min Scan# 1975

Delta R.T. -0.00 min

Lab File: VN052487.D

Acq: 27 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

OILY-SOIL

Tgt Ion: 62 Resp: 1775601

Ion Ratio Lower Upper

62 100

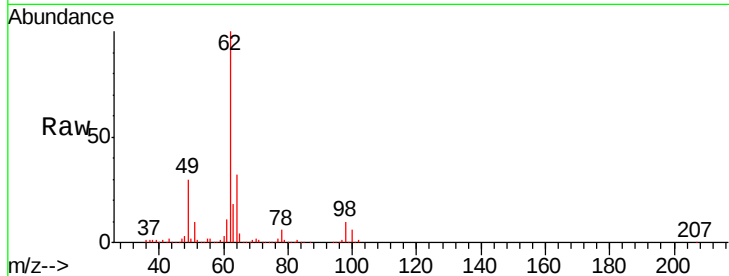
98 11.3 0.0 18.6

Manual Integrations

APPROVED

MMDadoda

11/29/2018 3:49:38 PM



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

8.12

800000

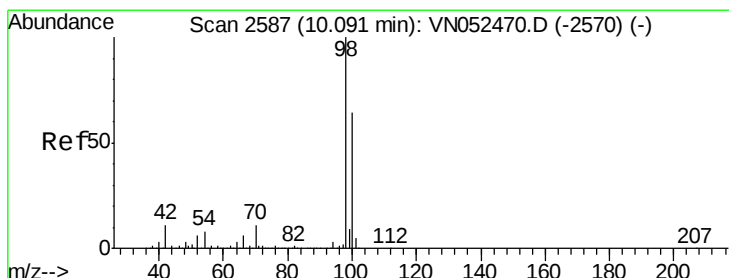
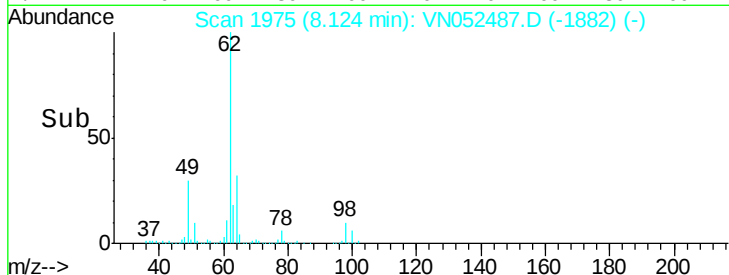
600000

400000

200000

0

Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN052487.D

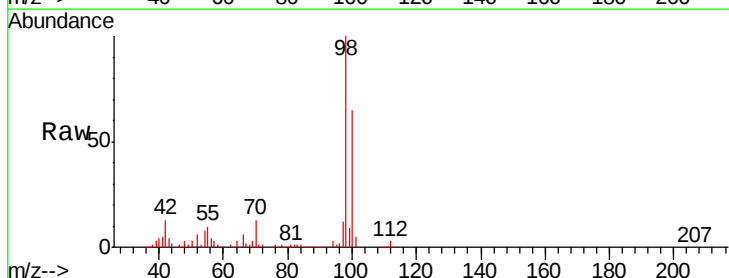
Acq: 27 Nov 2018 19:00

Tgt Ion: 98 Resp: 2507434

Ion Ratio Lower Upper

98 100

100 66.4 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

10.09

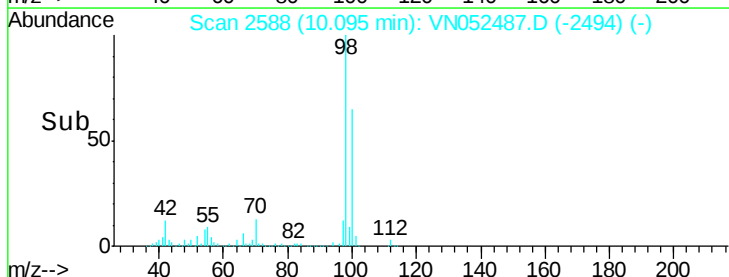
1500000

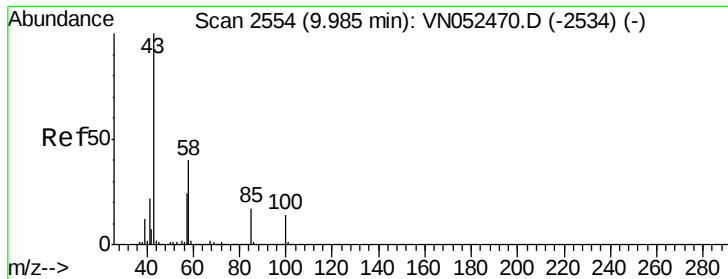
1000000

500000

0

Time-->





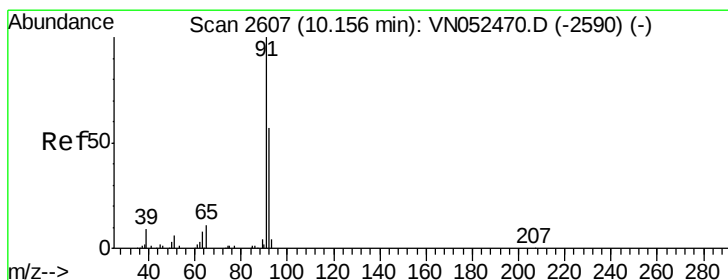
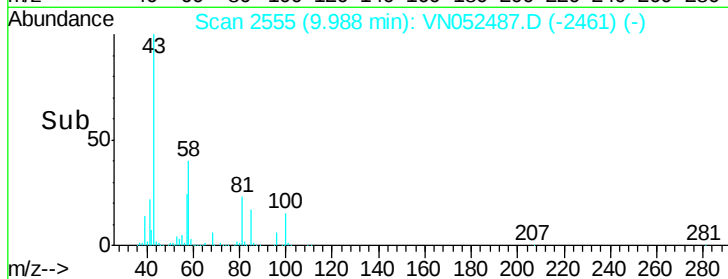
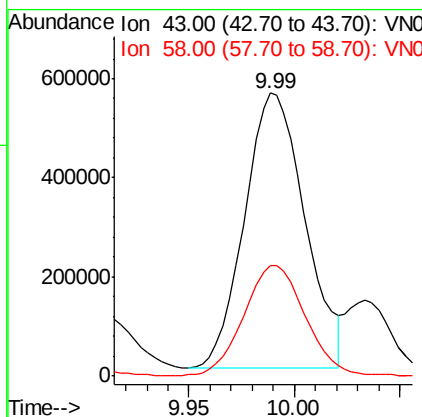
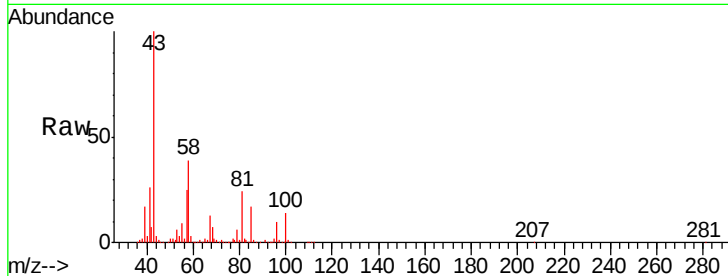
#51
 4-Methyl-2-Pentanone
 Concen: 98.14 ug/l
 RT: 9.99 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN052487.D
 Acq: 27 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampleId :
 OILY-SOIL

Tgt Ion: 43 Resp: 1101139
 Ion Ratio Lower Upper
 43 100
 58 40.3 31.5 47.3

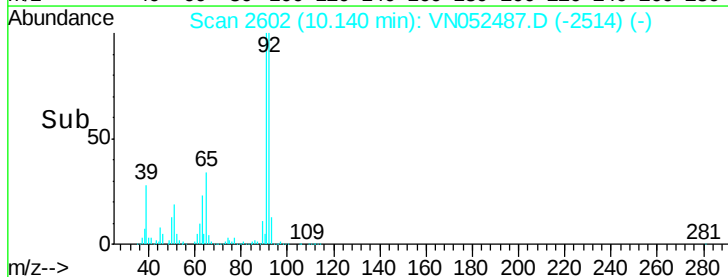
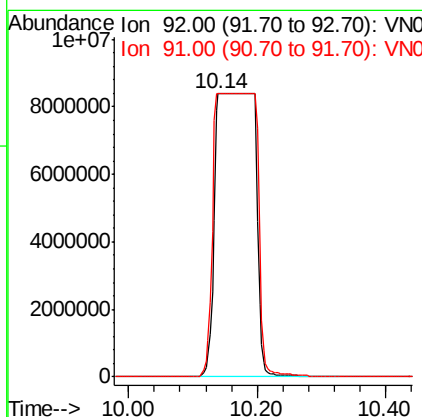
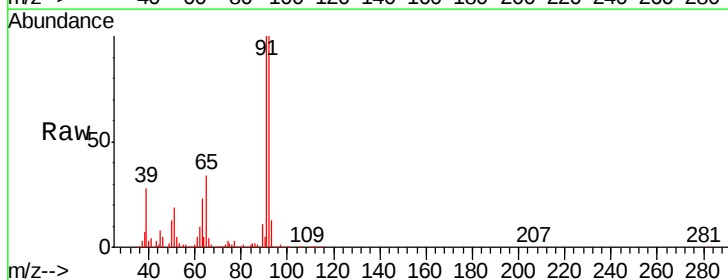
Manual Integrations
 APPROVED

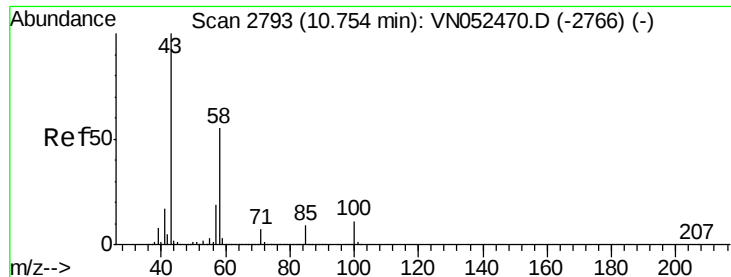
MMDadoda
 11/29/2018 3:49:38 PM



#52
 Toluene
 Concen: 1048.85 ug/l m
 RT: 10.14 min Scan# 2602
 Delta R.T. -0.02 min
 Lab File: VN052487.D
 Acq: 27 Nov 2018 19:00

Tgt Ion: 92 Resp: 35957774
 Ion Ratio Lower Upper
 92 100
 91 0.0 141.0 211.4#





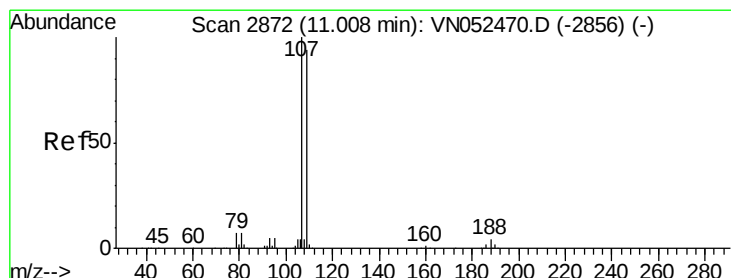
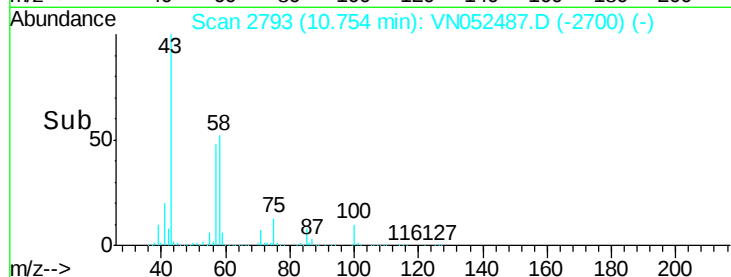
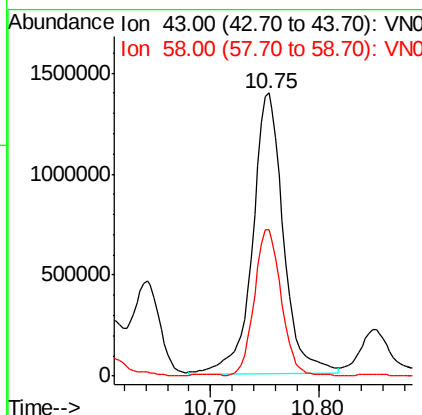
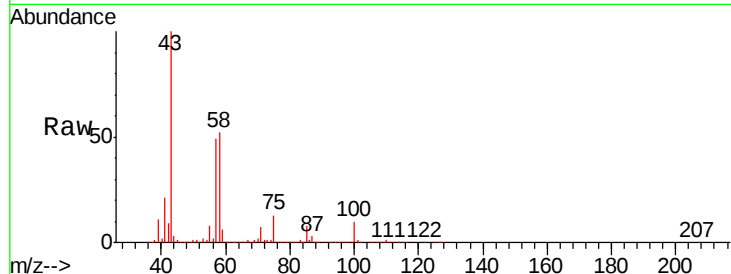
#59
2-Hexanone
Concen: 366.08 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN052487.D
Acq: 27 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
OILY-SOIL

Tgt Ion: 43 Resp: 2756635
Ion Ratio Lower Upper
43 100
58 44.7 27.4 82.0

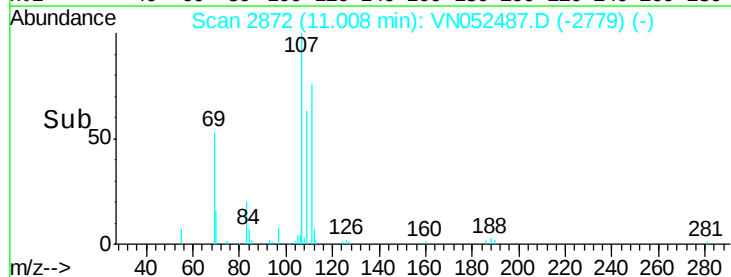
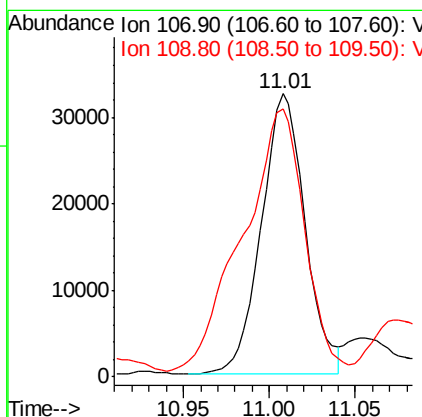
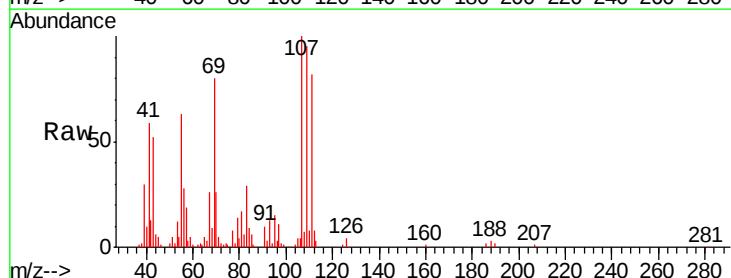
Manual Integrations
APPROVED

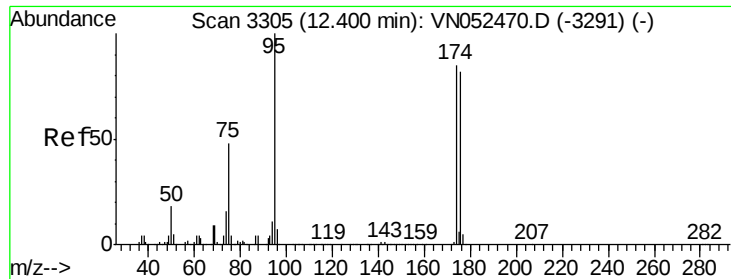
MMDadoda
11/29/2018 3:49:38 PM



#61
1,2-Dibromoethane
Concen: 4.79 ug/l
RT: 11.01 min Scan# 2872
Delta R.T. -0.00 min
Lab File: VN052487.D
Acq: 27 Nov 2018 19:00

Tgt Ion: 107 Resp: 57316
Ion Ratio Lower Upper
107 100
109 130.7 75.6 113.4#





#62

4-Bromofluorobenzene

Concen: 4.79 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052487.D

Acq: 27 Nov 2018 19:00

Instrument :

MSVOA_N

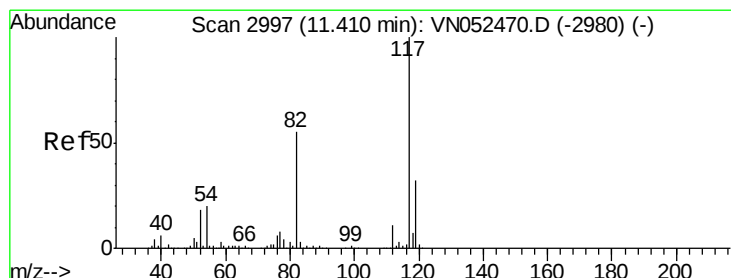
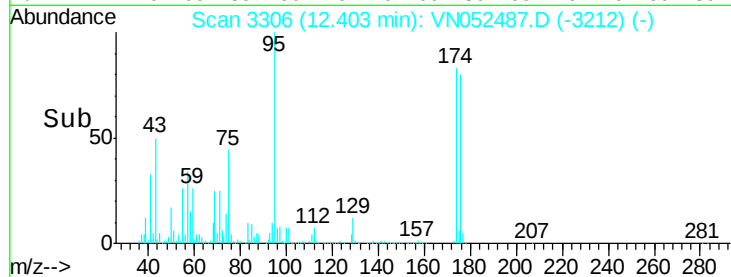
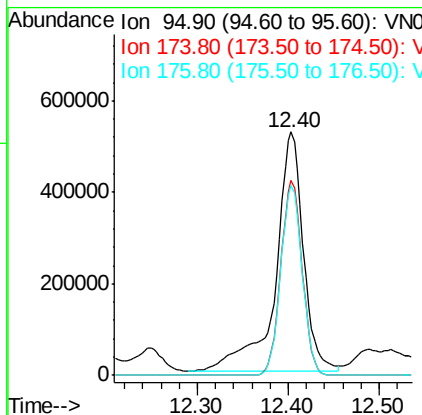
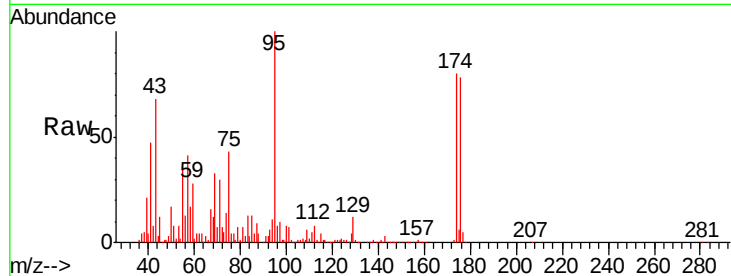
ClientSampled :

OILY-SOIL

Tgt Ion:	95	Resp:	1116482
Ion	Ratio	Lower	Upper
95	100		
174	62.3	0.0	173.0
176	60.9	0.0	166.2

Manual Integrations
APPROVED

MMDadoda
11/29/2018 3:49:38 PM



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

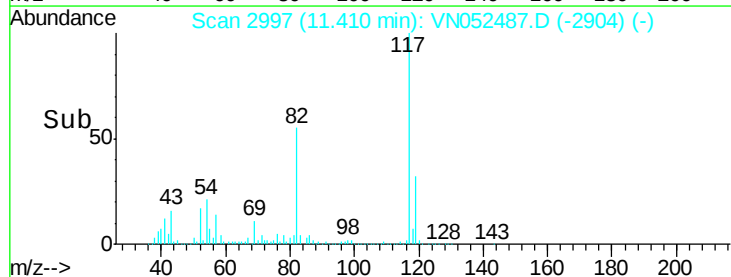
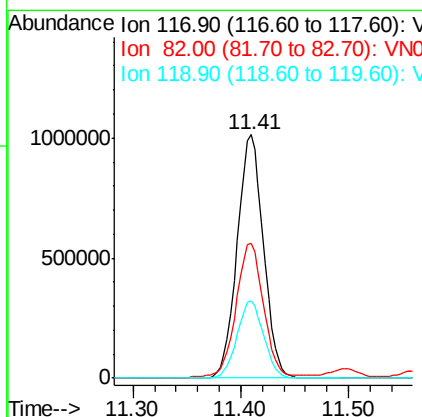
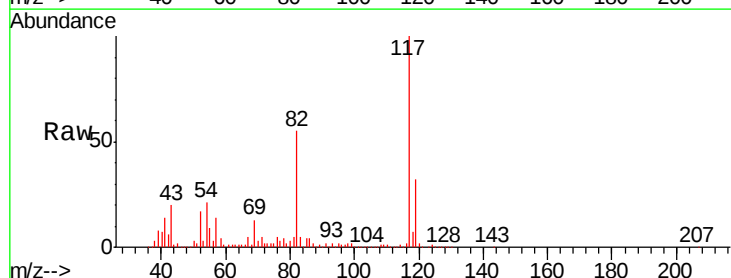
RT: 11.41 min Scan# 2997

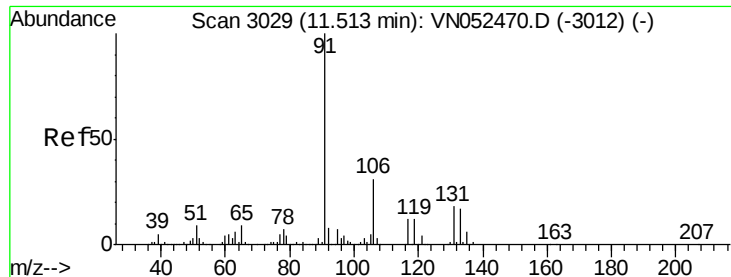
Delta R.T. -0.00 min

Lab File: VN052487.D

Acq: 27 Nov 2018 19:00

Tgt Ion:	117	Resp:	1720255
Ion	Ratio	Lower	Upper
117	100		
82	54.9	43.6	65.4
119	31.9	25.4	38.2





#67

Ethyl Benzene

Concen: 394.12 ug/l m

RT: 11.50 min Scan# 3024

Delta R.T. -0.02 min

Lab File: VN052487.D

Acq: 27 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

OILY-SOIL

Tgt Ion: 91 Resp:24481627

Ion Ratio Lower Upper

91 100

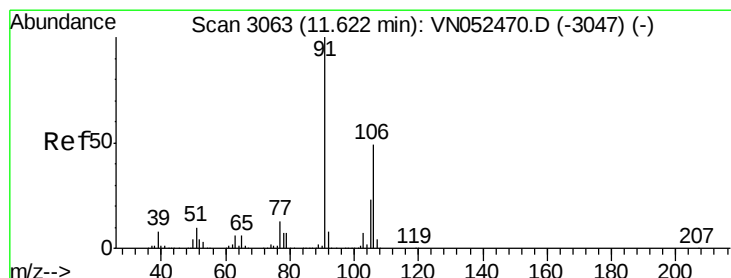
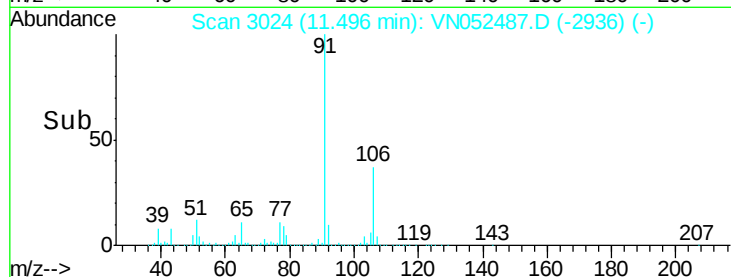
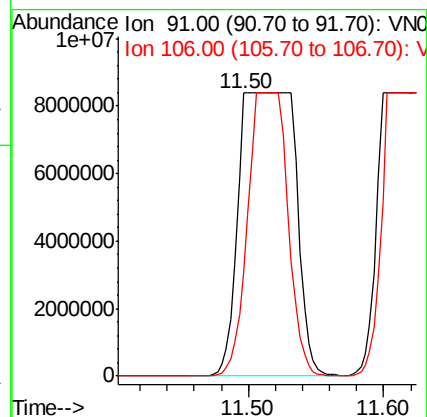
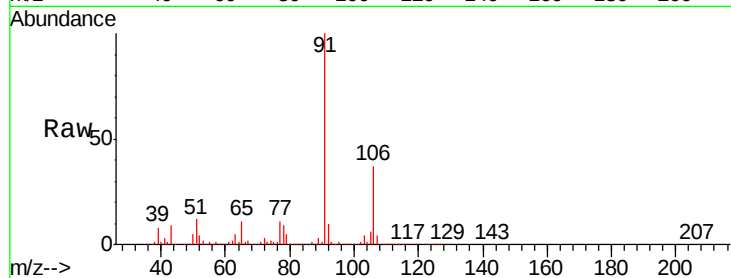
106 36.7 24.9 37.3

Manual Integrations

APPROVED

MMDadoda

11/29/2018 3:49:38 PM



#68

m/p-Xylenes

Concen: 1388.76 ug/l m

RT: 11.60 min Scan# 3057

Delta R.T. -0.02 min

Lab File: VN052487.D

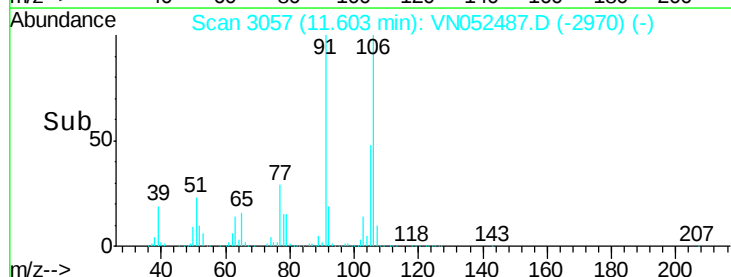
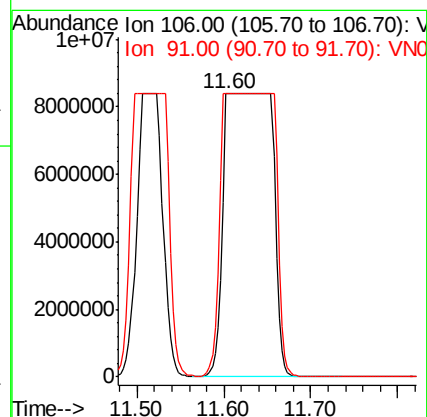
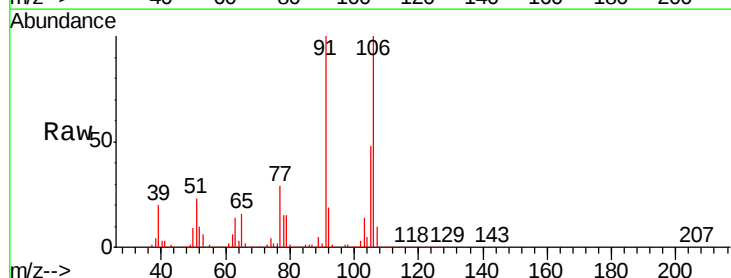
Acq: 27 Nov 2018 19:00

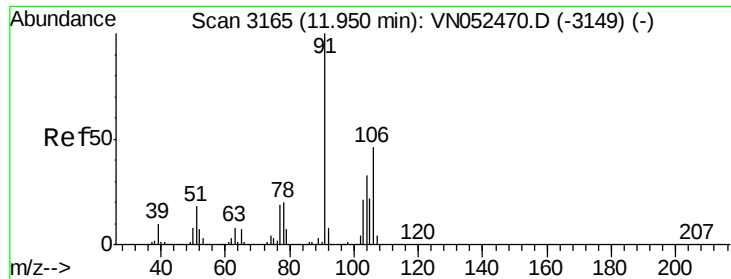
Tgt Ion:106 Resp:32114497

Ion Ratio Lower Upper

106 100

91 0.0 163.2 244.8#





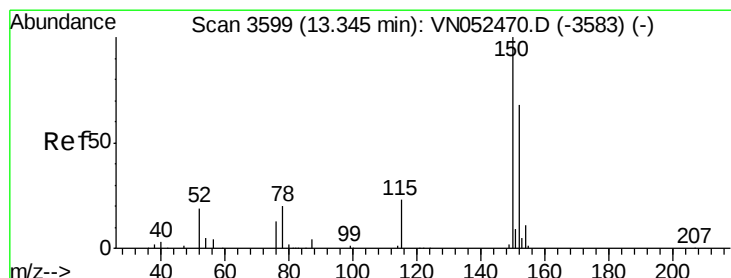
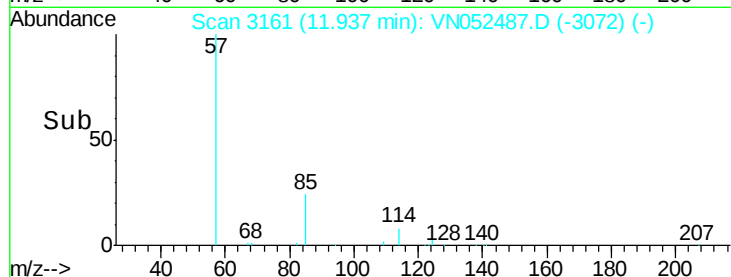
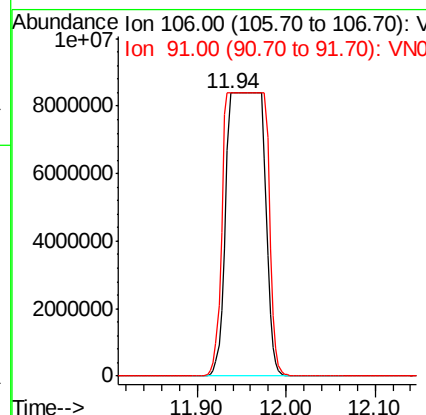
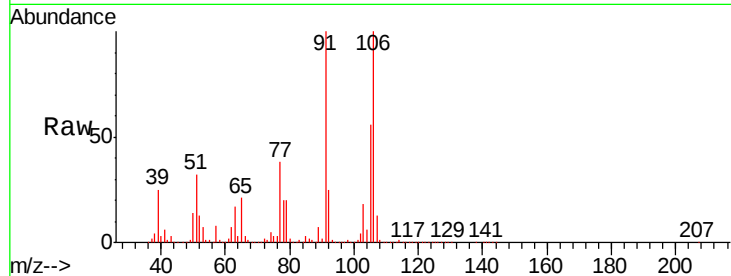
#69
o-Xylene
Concen: 1100.74 ug/l m
RT: 11.94 min Scan# 3161
Delta R.T. -0.01 min
Lab File: VN052487.D
Acq: 27 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
OILY-SOIL

Tgt Ion:106 Resp:24718099
Ion Ratio Lower Upper
106 100
91 0.0 107.7 323.1#

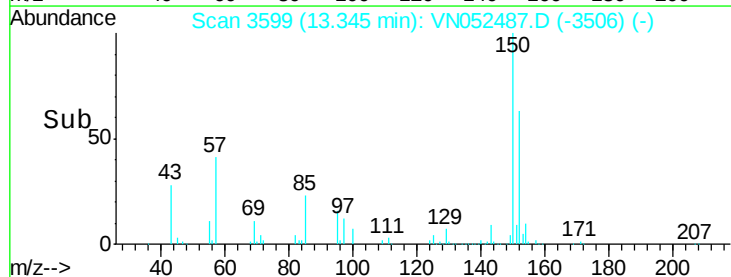
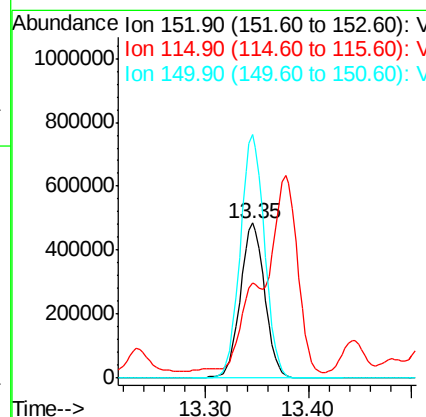
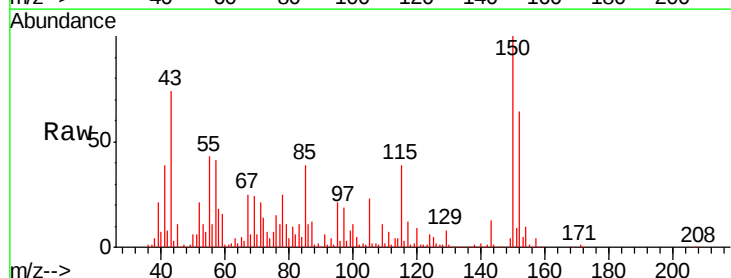
Manual Integrations
APPROVED

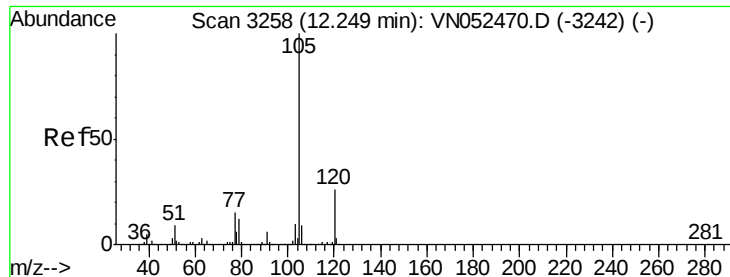
MMDadoda
11/29/2018 3:49:38 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN052487.D
Acq: 27 Nov 2018 19:00

Tgt Ion:152 Resp: 796568
Ion Ratio Lower Upper
152 100
115 48.0 28.4 85.2
150 156.4 0.0 346.0





#73

Isopropylbenzene

Concen: 42.24 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN052487.D

Acq: 27 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampled :

OILY-SOIL

Tgt Ion: 105 Resp: 2639782

Ion Ratio Lower Upper

105 100

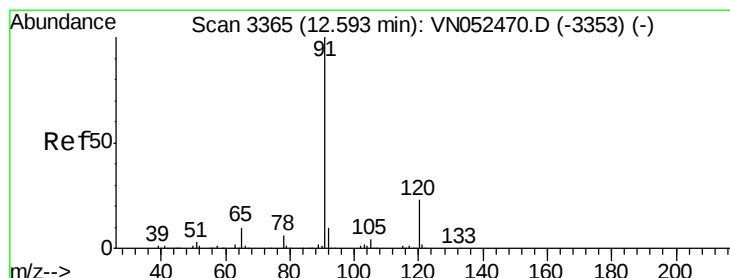
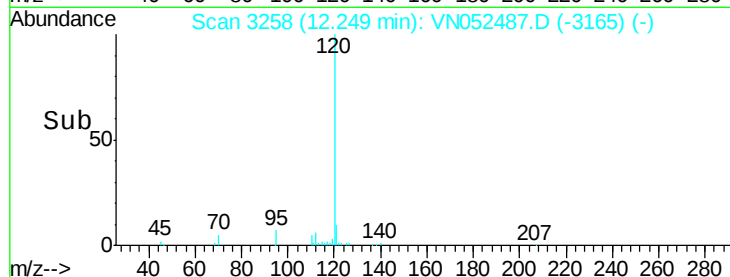
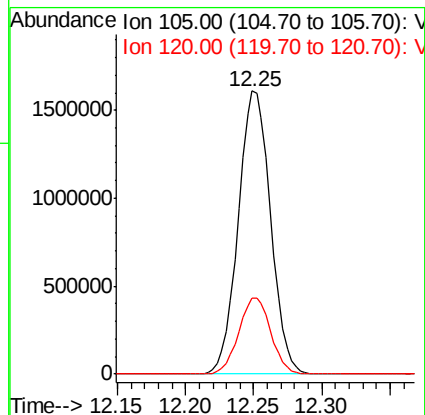
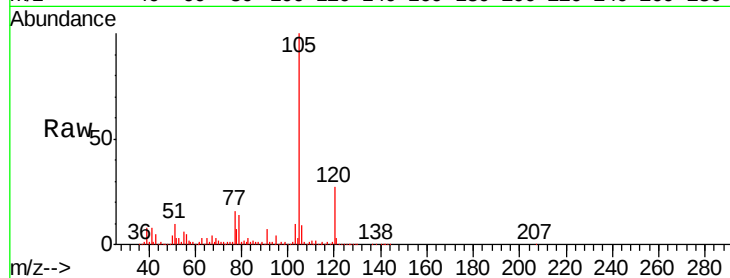
120 26.8 13.1 39.3

Manual Integrations

APPROVED

MMDadoda

11/29/2018 3:49:38 PM



#78

n-propylbenzene

Concen: 119.07 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. -0.00 min

Lab File: VN052487.D

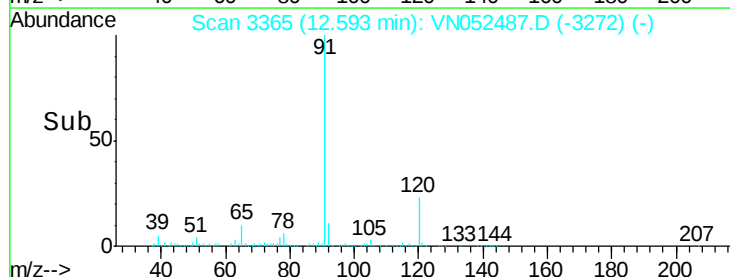
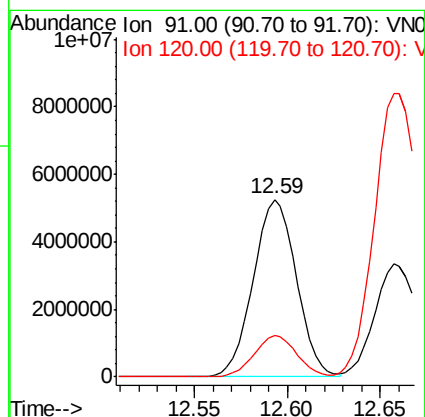
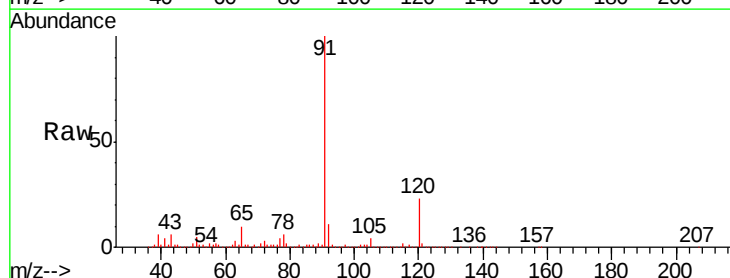
Acq: 27 Nov 2018 19:00

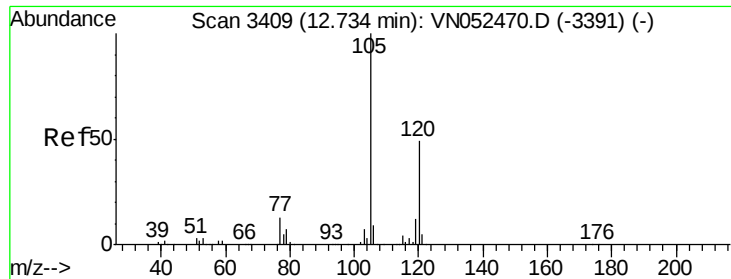
Tgt Ion: 91 Resp: 8453714

Ion Ratio Lower Upper

91 100

120 23.1 11.3 33.9





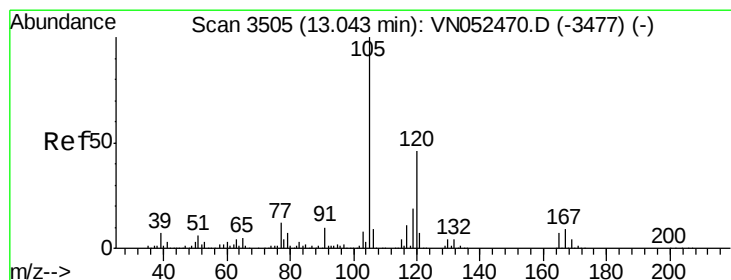
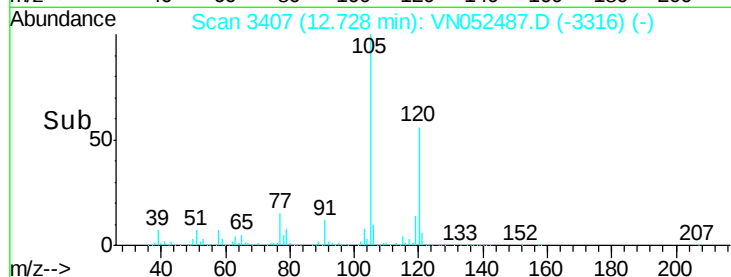
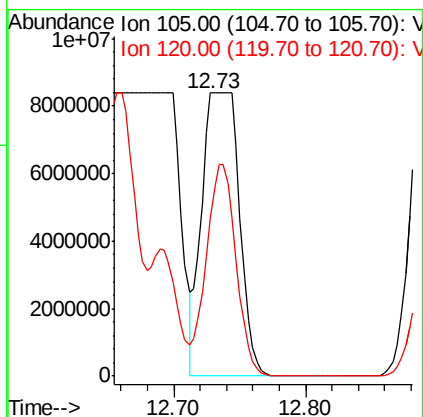
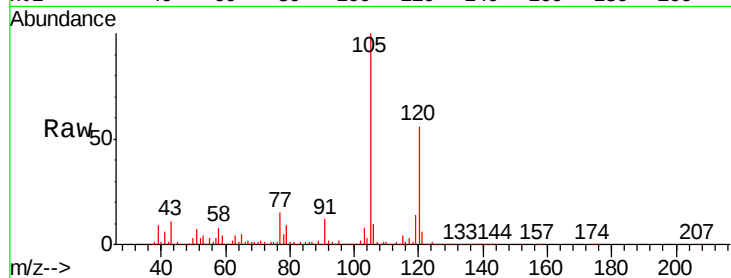
#80
 1,3,5-Trimethylbenzene
 Concen: 334.95 ug/l m
 RT: 12.73 min Scan# 3407
 Delta R.T. -0.01 min
 Lab File: VN052487.D
 Acq: 27 Nov 2018 19:00

Instrument :
 MSVOA_N
 ClientSampled :
 OILY-SOIL

Tgt Ion:105 Resp:16694989
 Ion Ratio Lower Upper
 105 100
 120 58.8 24.3 73.0

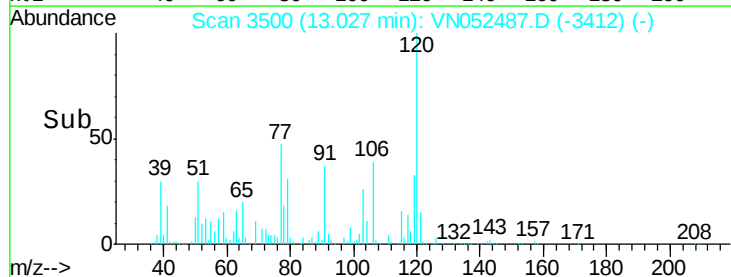
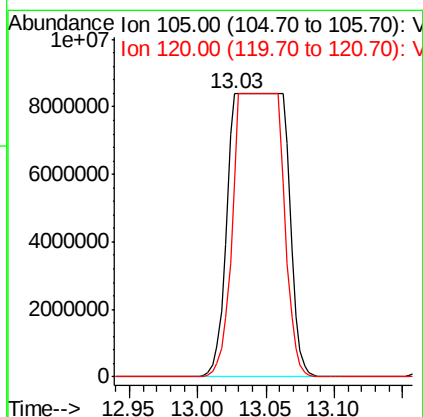
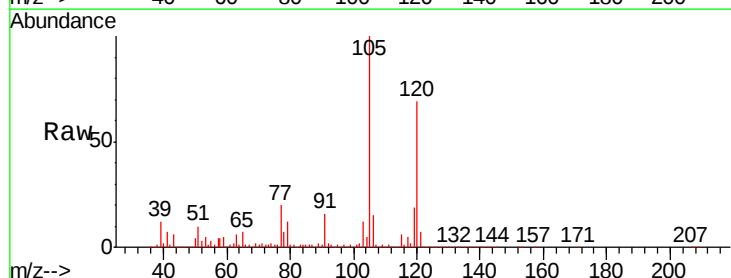
Manual Integrations
 APPROVED

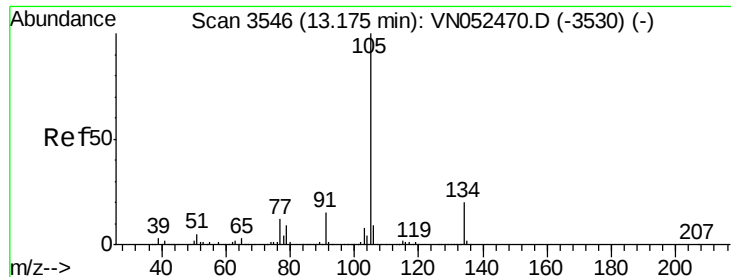
MMDadoda
 11/29/2018 3:49:38 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 498.31 ug/l m
 RT: 13.03 min Scan# 3500
 Delta R.T. -0.02 min
 Lab File: VN052487.D
 Acq: 27 Nov 2018 19:00

Tgt Ion:105 Resp:24890815
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.8 68.4#





#85

sec-Butylbenzene

Concen: 6.78 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. -0.00 min

Lab File: VN052487.D

Acq: 27 Nov 2018 19:00

Instrument :

MSVOA_N

ClientSampleId :

OILY-SOIL

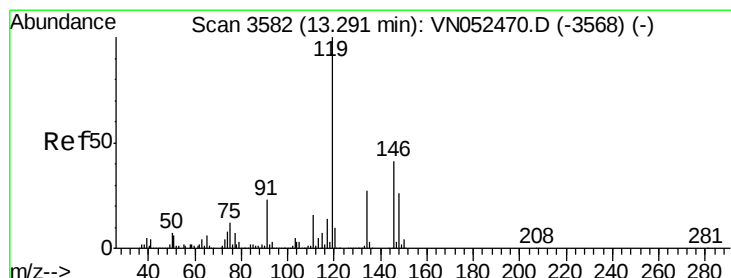
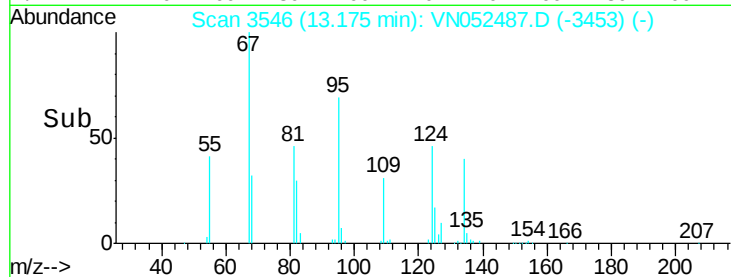
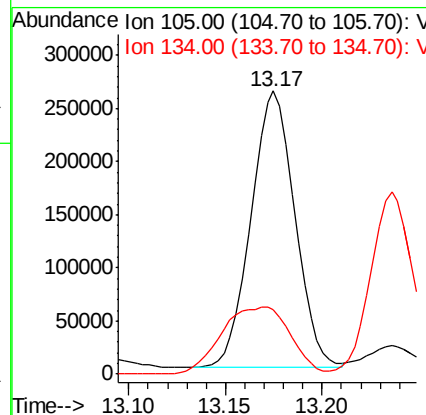
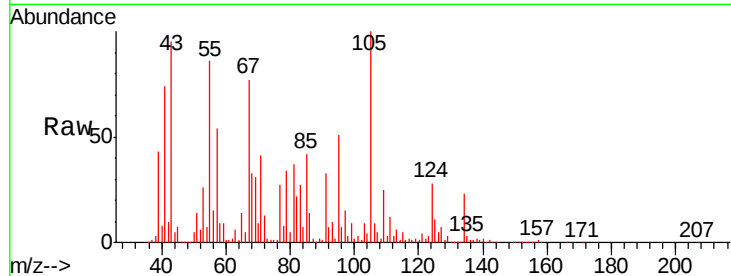
Tgt Ion:105 Resp: 410177
Ion Ratio Lower Upper

105 100

134 37.7 9.9 29.7#

Manual Integrations
APPROVED

MMDadoda
11/29/2018 3:49:38 PM



#86

p-Isopropyltoluene

Concen: 5.89 ug/l m

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN052487.D

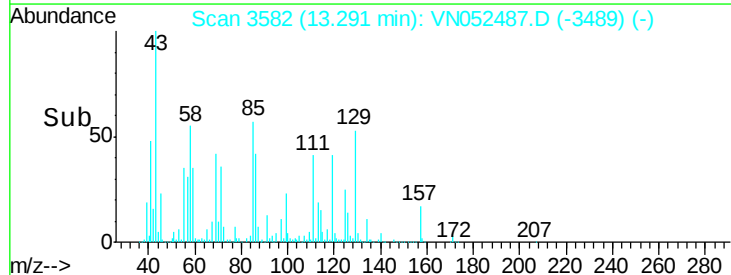
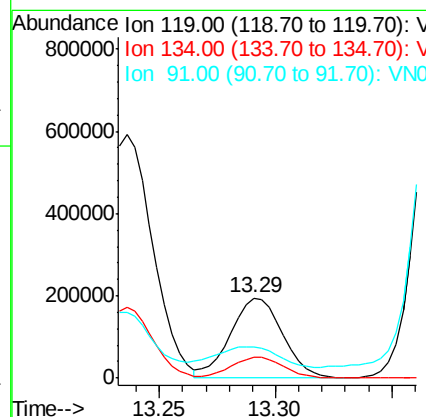
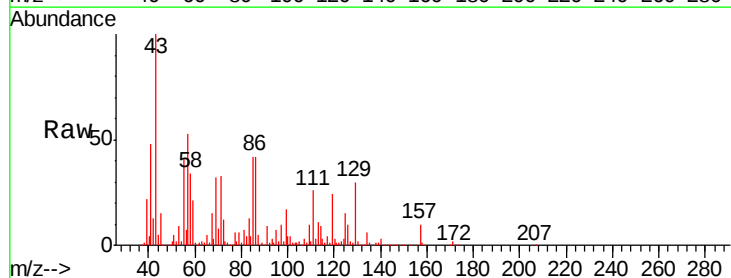
Acq: 27 Nov 2018 19:00

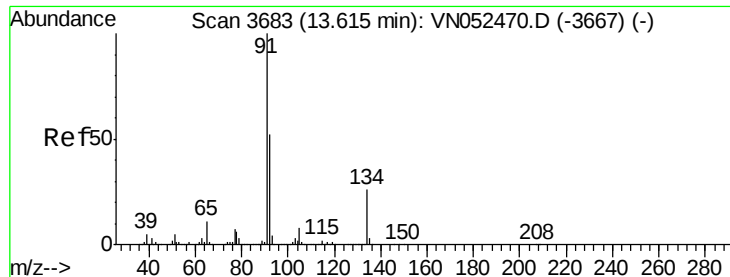
Tgt Ion:119 Resp: 303418
Ion Ratio Lower Upper

119 100

134 85.8 13.4 40.2#

91 0.0 11.4 34.2#





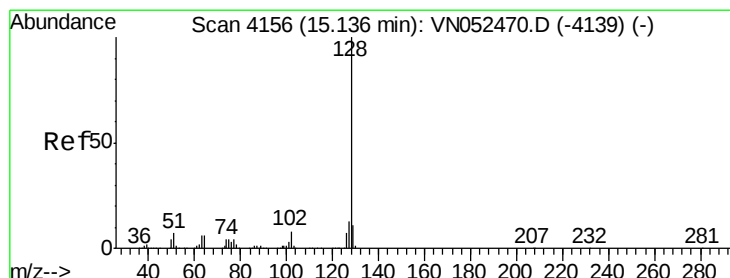
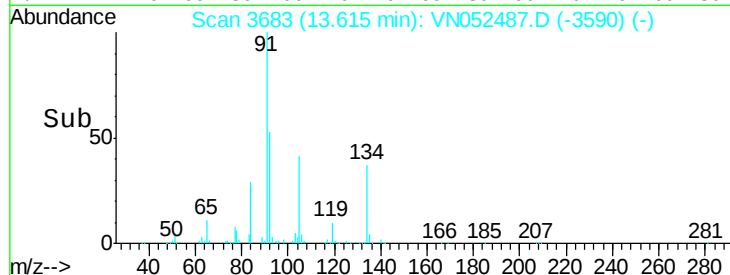
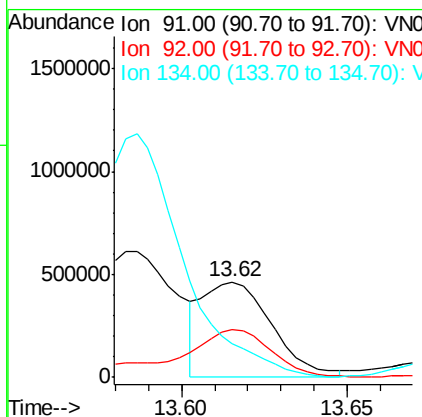
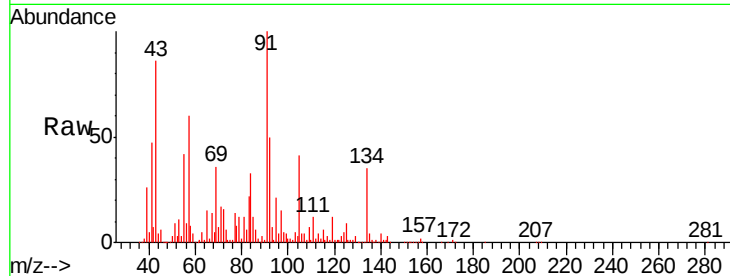
#89
n-Butylbenzene
Concen: 15.82 ug/l m
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN052487.D
Acq: 27 Nov 2018 19:00

Instrument :
MSVOA_N
ClientSampleId :
OILY-SOIL

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.1	78.3#
134	320.6	13.0	38.9#

Manual Integrations
APPROVED

MMDadoda
11/29/2018 3:49:38 PM



#95
Naphthalene
Concen: 654.97 ug/l m
RT: 15.12 min Scan# 4152
Delta R.T. -0.01 min
Lab File: VN052487.D
Acq: 27 Nov 2018 19:00

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.7	13.1#

