

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060519\
 Data File : VN056005.D
 Acq On : 5 Jun 2019 13:16
 Operator : JC/SP
 Sample : K2640-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 21643

Manual Integrations
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MMDadoda
 6/6/2019 12:04:51 PM

Quant Time: Jun 06 01:50:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	409485	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	608064	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	608844	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	286650	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	186522	45.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.76%	
35) Dibromofluoromethane	7.59	113	168413	45.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.28%	
50) Toluene-d8	10.09	98	743138	51.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.54%	
62) 4-Bromofluorobenzene	12.40	95	284843	58.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.70%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.81	59	240088	339.326	ug/l	99
16) Acetone	3.81	43	27422260m	14101.996	ug/l	
19) Methyl tert-butyl Ether	5.05	73	102146	9.322	ug/l #	14
20) Methylene Chloride	4.54	84	24303	6.066	ug/l	96
25) 2-Butanone	6.84	43	144153	58.673	ug/l	100
29) Tetrahydrofuran	7.21	42	3815	2.512	ug/l #	71
31) Cyclohexane	7.65	56	331949	51.452	ug/l	96
37) Ethyl Acetate	6.94	43	51001	10.963	ug/l	99
39) Methylcyclohexane	9.08	83	162792	24.994	ug/l	99
40) Benzene	8.04	78	10095102	635.706	ug/l	100
43) Isopropyl Acetate	8.15	43	64941	8.614	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	70995	15.060	ug/l	92
52) Toluene	10.15	92	24012067m	2429.977	ug/l	
67) Ethyl Benzene	11.51	91	6442915	305.788	ug/l	98
68) m/p-Xylenes	11.62	106	8412008	1045.109	ug/l	97
69) o-Xylene	11.95	106	4047653	511.234	ug/l	99
73) Isopropylbenzene	12.25	105	259915	10.825	ug/l	100
78) n-propylbenzene	12.59	91	705396	29.088	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	709819	36.829	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	2761563	151.097	ug/l	100
85) sec-Butylbenzene	13.17	105	26291m	1.224	ug/l	
89) n-Butylbenzene	13.61	91	15068	1.058	ug/l #	71
95) Naphthalene	15.13	128	227964	19.197	ug/l	99

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

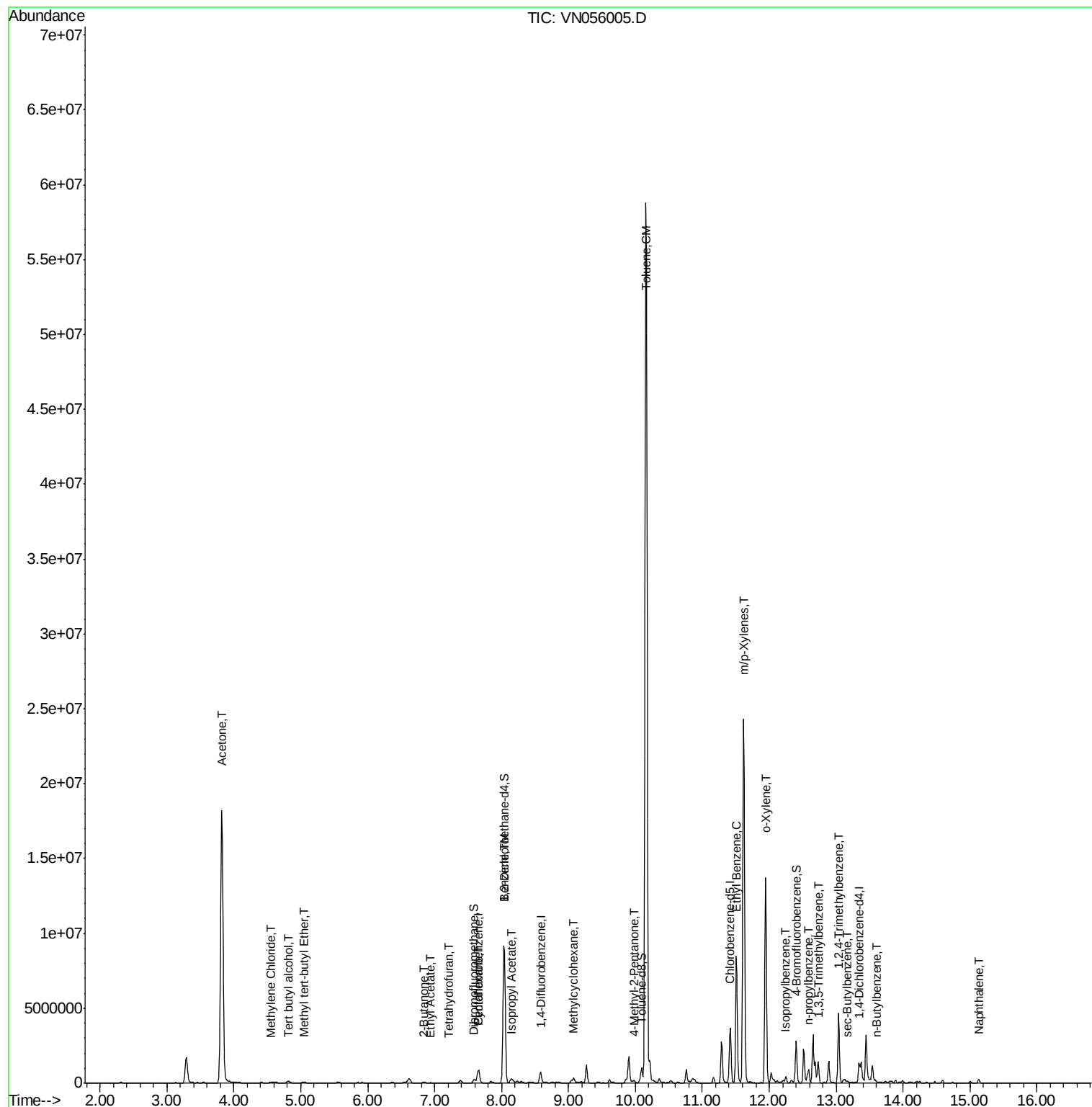
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060519\
Data File : VN056005.D
Acq On : 5 Jun 2019 13:16
Operator : JC/SP
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ALS Vial : 12 Sample Multiplier: 1

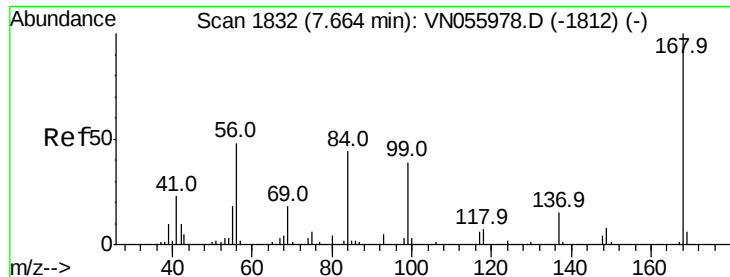
Instrument :
MSVOA_N
ClientSampleId :
21643

Manual Integrations
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6/6/2019 12:04:51 PM

Quant Time: Jun 06 01:50:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 04 11:02:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056005.D

Acq: 5 Jun 2019 13:16

Instrument :

MSVOA_N

ClientSampled :

21643

Tot Ion:168 Resp: 409485

Ion Ratio Lower Upper

168 100

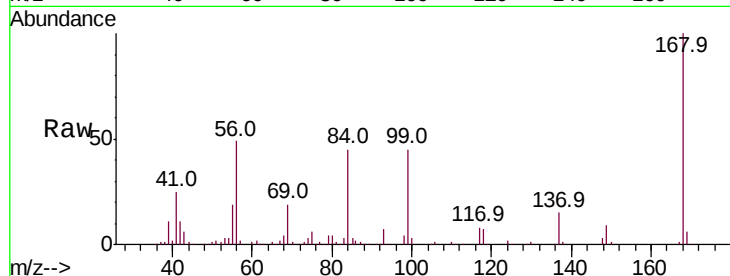
99 45.4 37.2 55.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

200000 Ion 98.90 (98.60 to 99.60): VN

7.66

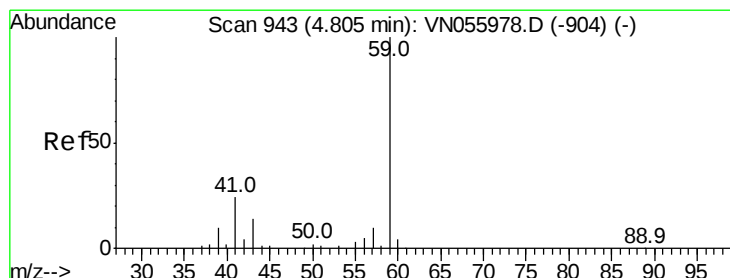
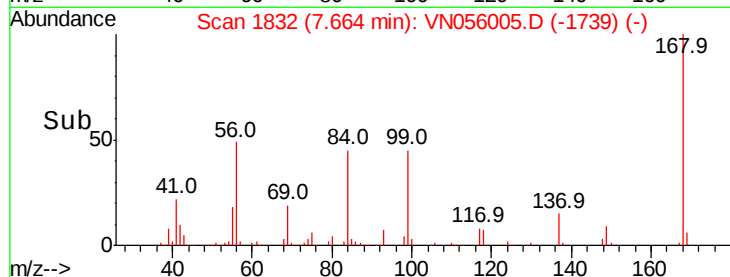
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 339.326 ug/l

RT: 4.81 min Scan# 945

Delta R.T. 0.01 min

Lab File: VN056005.D

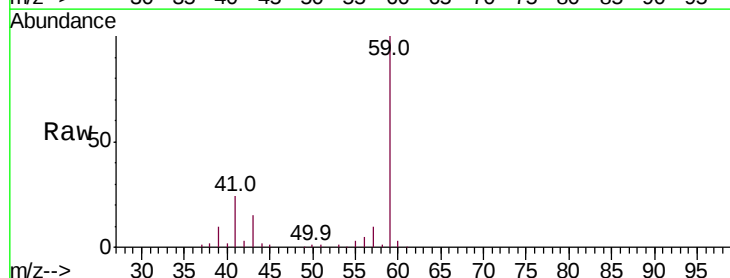
Acq: 5 Jun 2019 13:16

Tgt Ion: 59 Resp: 240088

Ion Ratio Lower Upper

59 100

57 10.0 7.8 11.6



Abundance Ion 59.00 (58.70 to 59.70): VN

80000 Ion 57.00 (56.70 to 57.70): VN

4.81

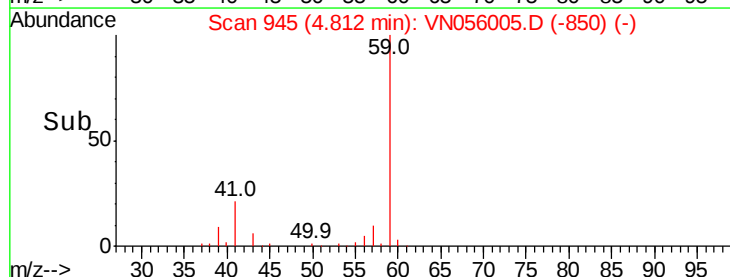
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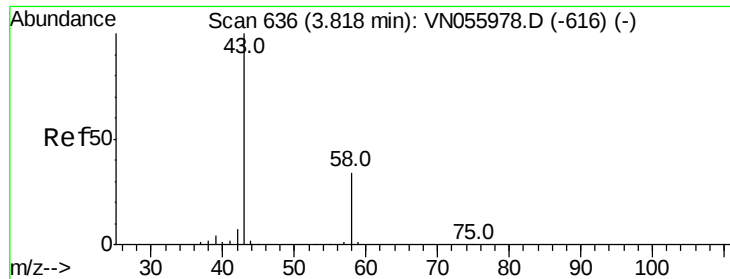
40000

20000

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Time-->





#16

Acetone

Concen: 14101.996 ug/l m

RT: 3.81 min Scan# 633

Delta R.T. -0.01 min

Lab File: VN056005.D

Acq: 5 Jun 2019 13:16

Instrument :

MSVOA_N

ClientSampleId :

21643

Tot Ion: 43 Resp: 27422260

Ion Ratio Lower Upper

43 100

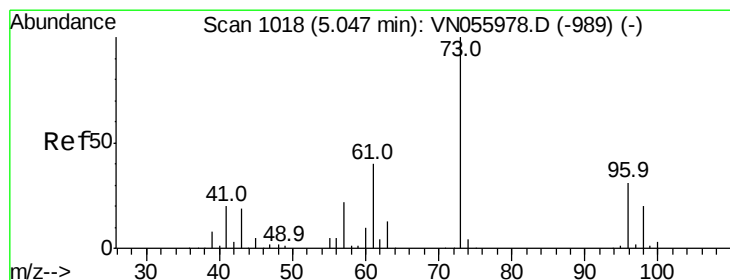
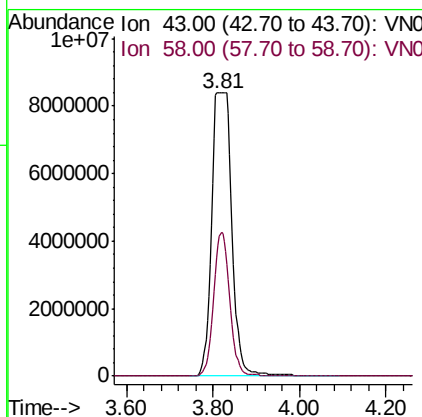
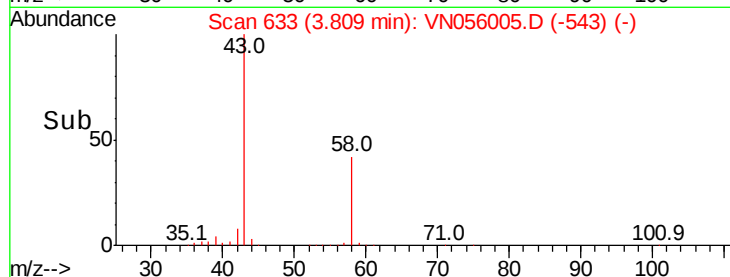
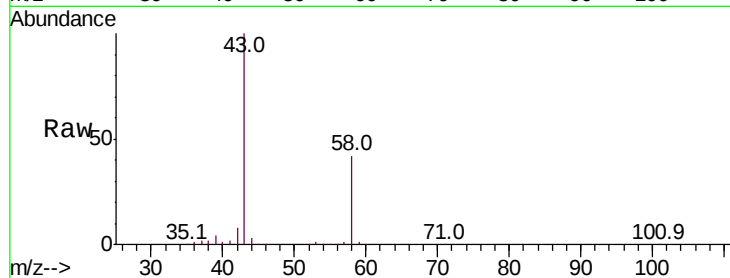
58 41.7 26.6 39.8#

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6/6/2019 12:04:51 PM



#19

Methyl tert-butyl Ether

Concen: 9.322 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. 0.00 min

Lab File: VN056005.D

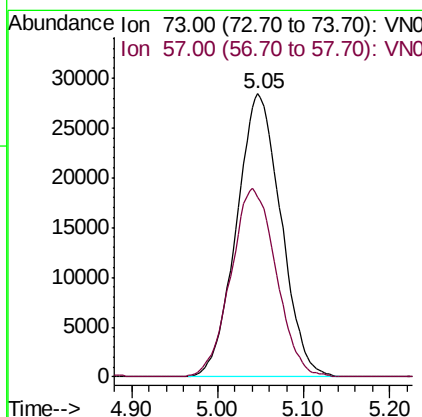
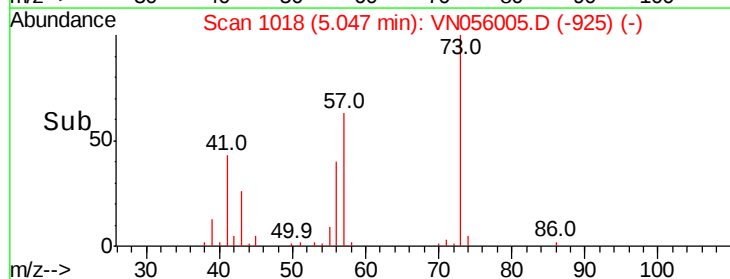
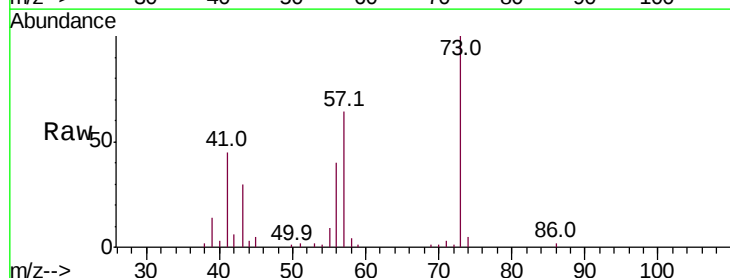
Acq: 5 Jun 2019 13:16

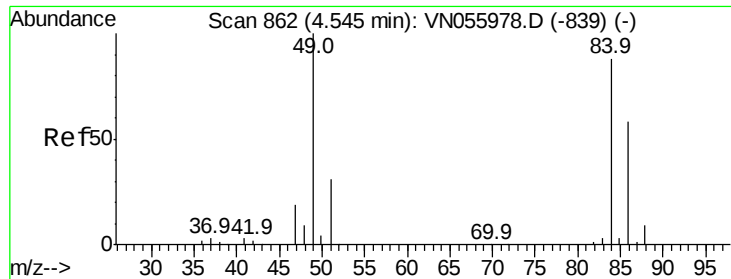
Tgt Ion: 73 Resp: 102146

Ion Ratio Lower Upper

73 100

57 63.6 17.8 26.8#





#20

Methvlene Chloride

Concen: 6.066 ug/l

RT: 4.54 min Scan# 861

Delta R.T. -0.00 min

Lab File: VN056005.D

Acq: 5 Jun 2019 13:16

Instrument :

MSVOA_N

ClientSampleId :

21643

Tot Ion: 84 Resp: 24303

Ion Ratio Lower Upper

84 100

49 112.5 93.5 140.3

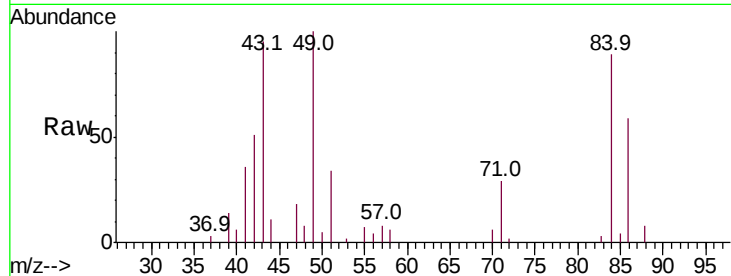
51 37.7 28.6 43.0

86 63.7 52.6 79.0

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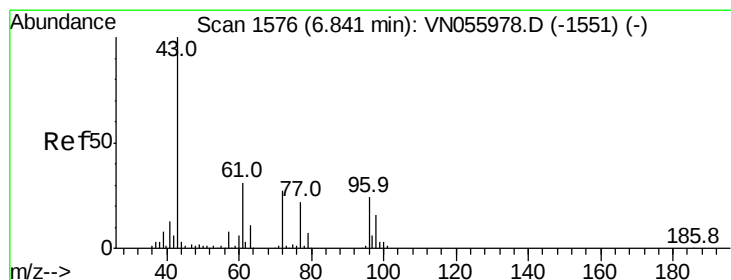
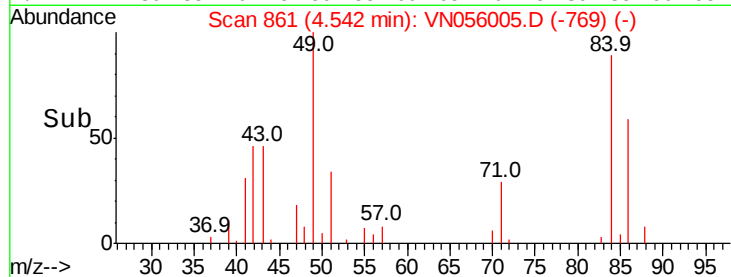
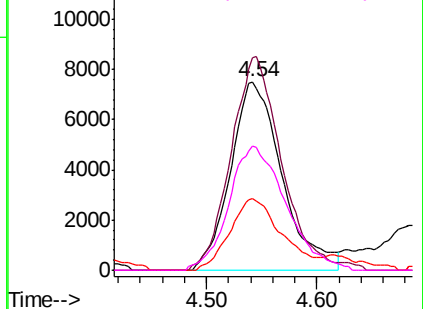
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 58.673 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.00 min

Lab File: VN056005.D

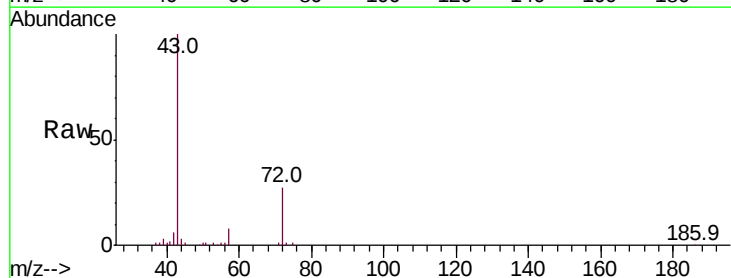
Acq: 5 Jun 2019 13:16

Tgt Ion: 43 Resp: 144153

Ion Ratio Lower Upper

43 100

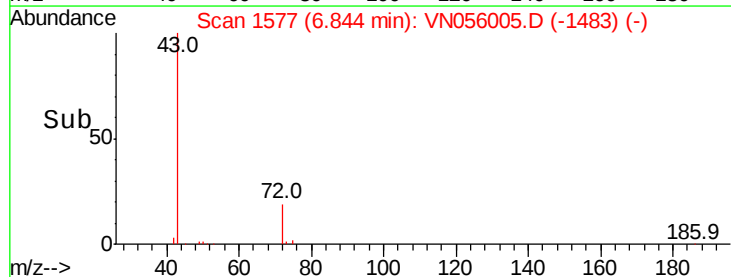
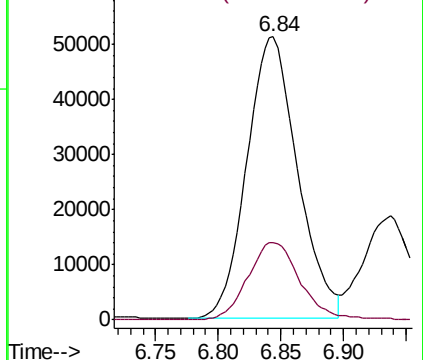
72 27.5 21.9 32.9

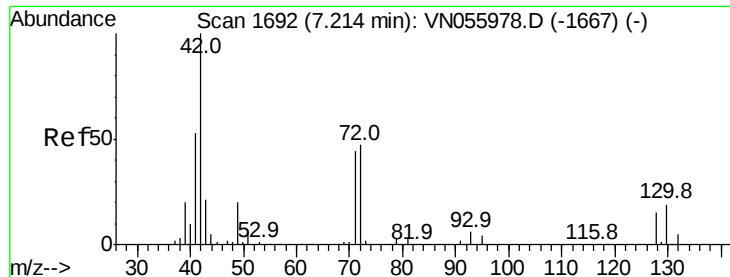


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





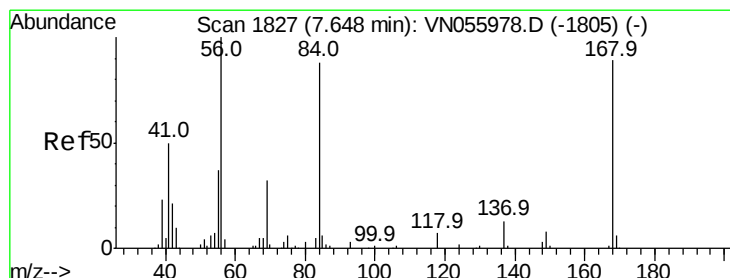
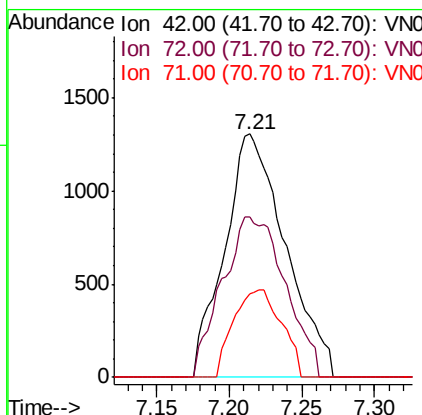
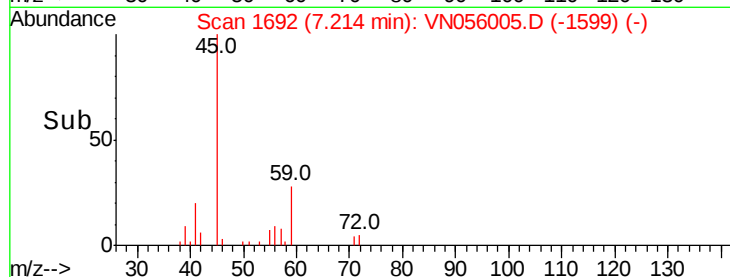
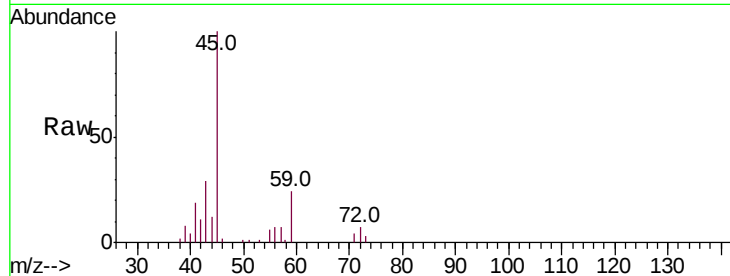
#29
Tetrahydrofuran
Concen: 2.512 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Instrument :
MSVOA_N
ClientSampled :
21643

Tot Ion	Ratio	Lower	Upper
42	100		
72	68.2	35.9	53.9#
71	28.2	34.0	51.0#

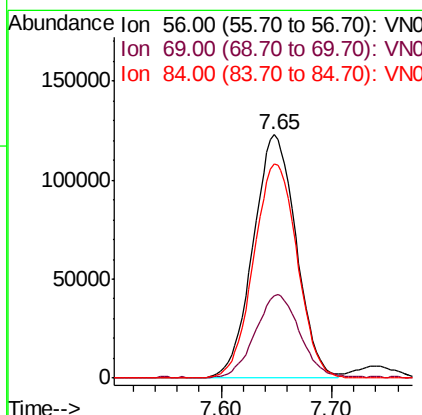
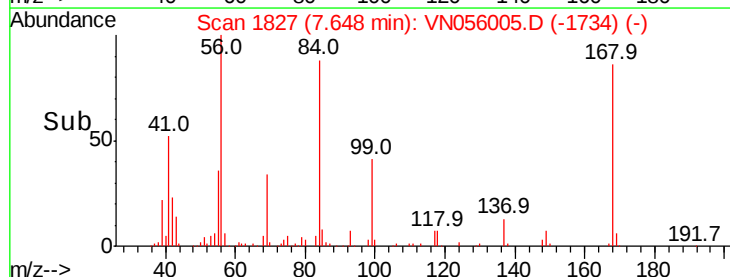
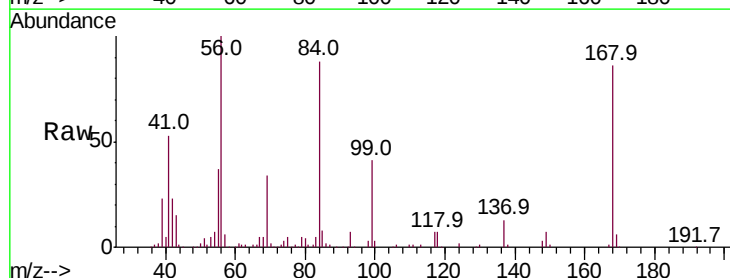
Manual Integrations
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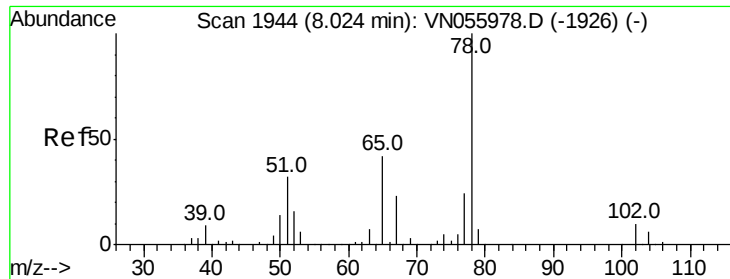
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#31
Cyclohexane
Concen: 51.452 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.00 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Tgt Ion	Ratio	Lower	Upper
56	100		
69	33.7	25.6	38.4
84	88.2	67.4	101.0





#33

1,2-Dichloroethane-d4

Concen: 45.875 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056005.D

Acq: 5 Jun 2019 13:16

Instrument :

MSVOA_N

ClientSampled :

21643

Tot Ion: 65 Resp: 186522

Ion Ratio Lower Upper

65 100

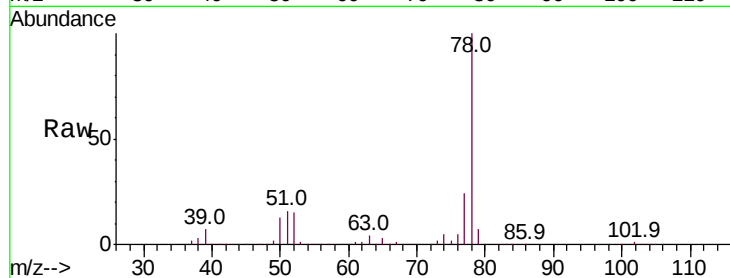
67 54.5 0.0 109.2

Manual Integrations

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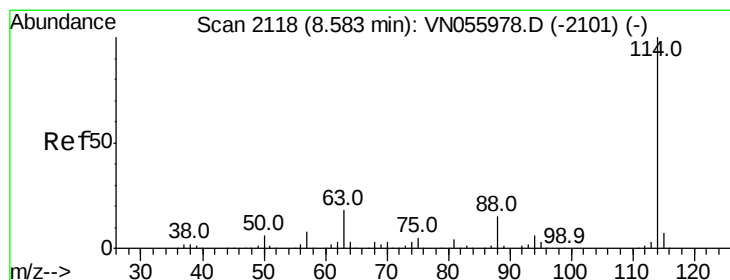
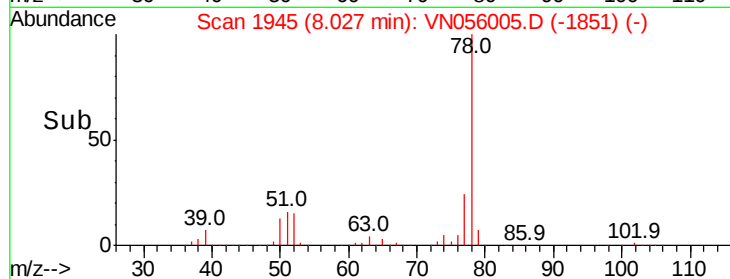
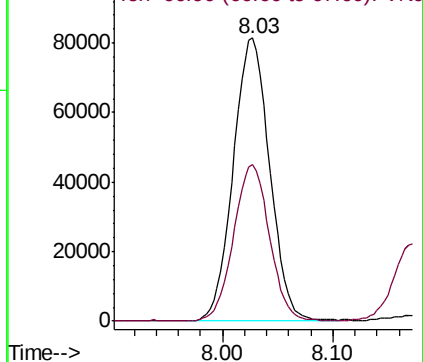
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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN056005.D

Acq: 5 Jun 2019 13:16

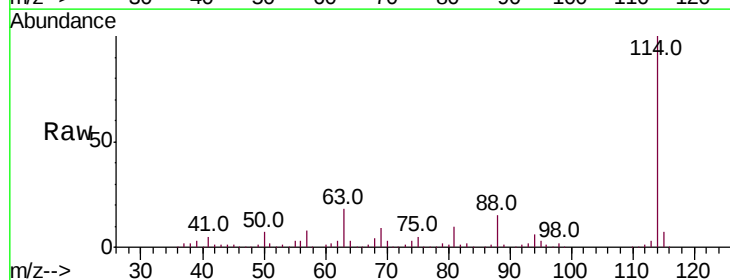
Tgt Ion: 114 Resp: 608064

Ion Ratio Lower Upper

114 100

63 18.5 0.0 39.2

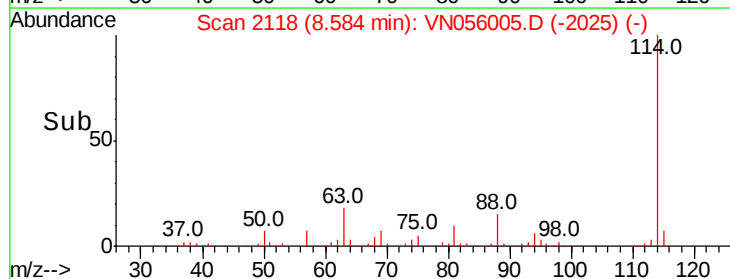
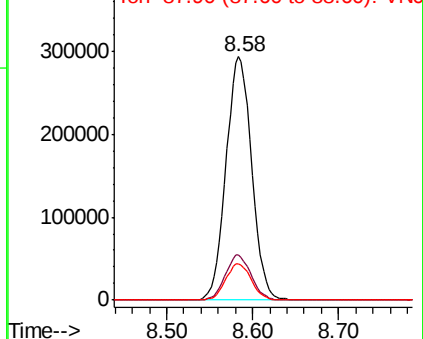
88 15.0 0.0 31.0

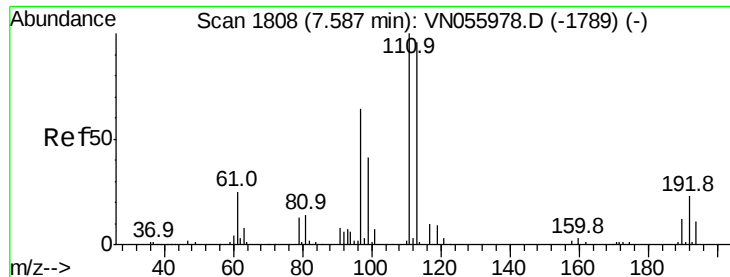


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





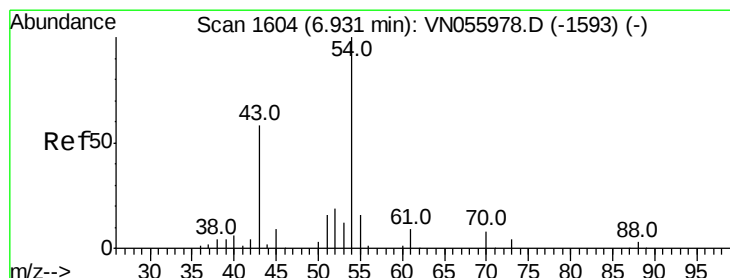
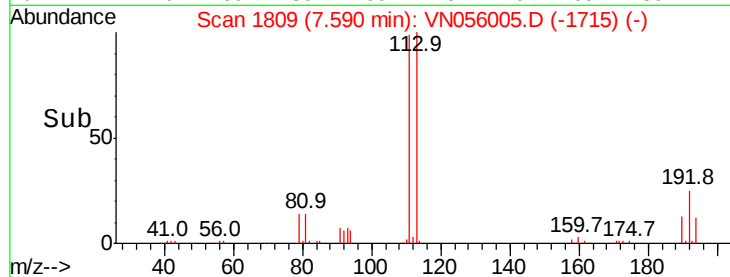
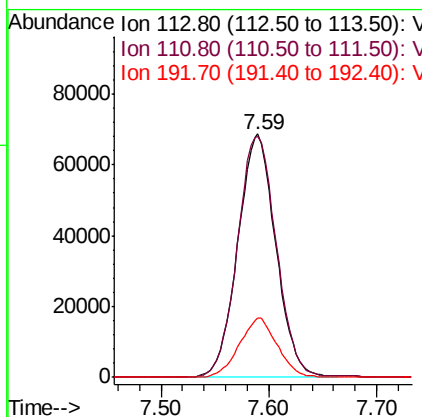
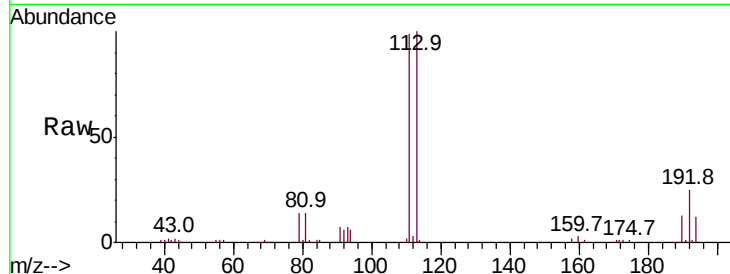
#35
Dibromofluoromethane
Concen: 45.143 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Instrument :
MSVOA_N
ClientSampleId :
21643

Tot Ion	Ratio	Resp	Lower	Upper
113	100	168413		
111	101.5	81.9	122.9	
192	24.2	19.5	29.3	

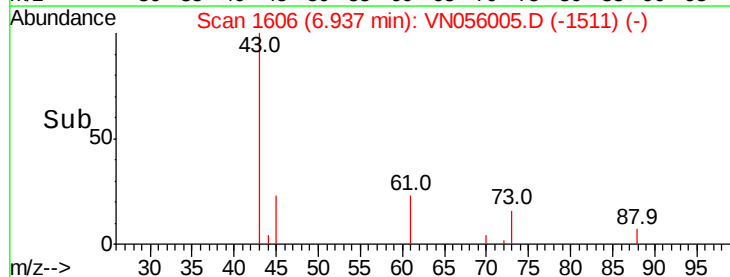
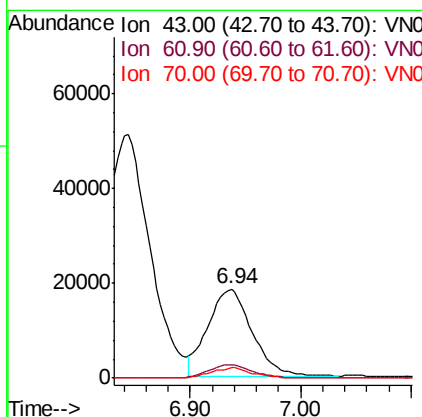
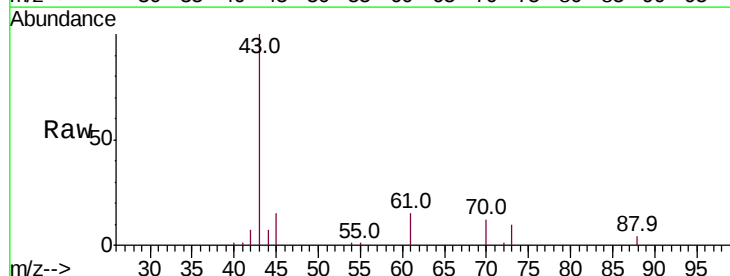
Manual Integrations
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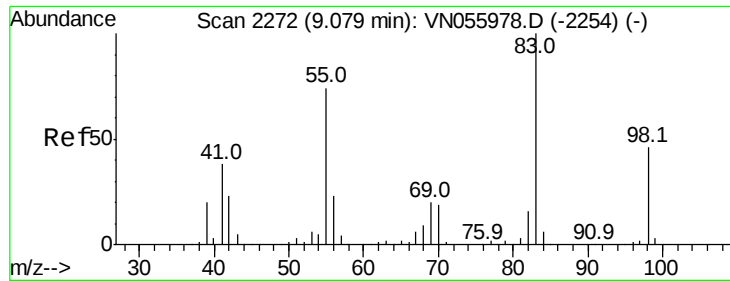
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6/6/2019 12:04:51 PM



#37
Ethyl Acetate
Concen: 10.963 ug/l
RT: 6.94 min Scan# 1606
Delta R.T. 0.01 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	51001		
61	14.9	12.2	18.2	
70	11.3	8.9	13.3	





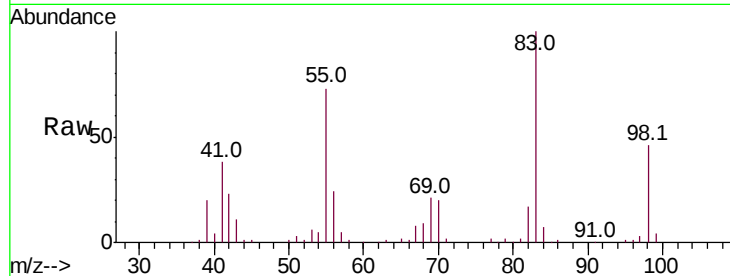
#39
Methvlcvclohexane
Concen: 24.994 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Instrument :
MSVOA_N
ClientSampled :
21643

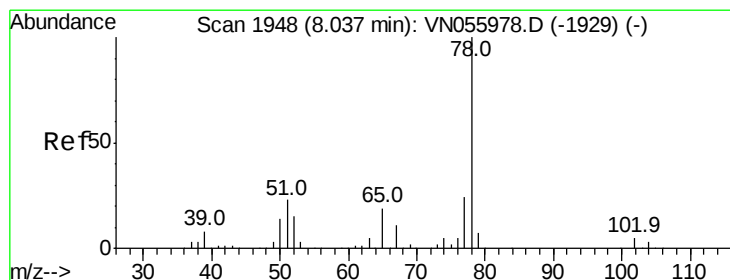
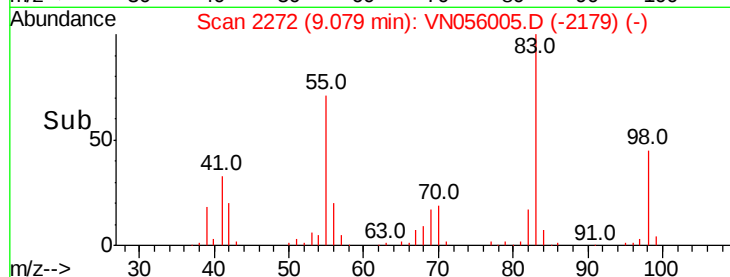
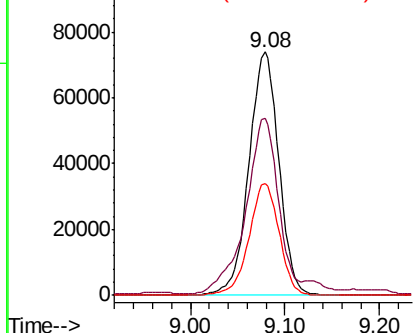
Tot Ion	Ratio	Lower	Upper
83	100		
55	72.3	59.3	88.9
98	45.9	36.6	54.8

Manual Integrations
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6/6/2019 12:04:51 PM

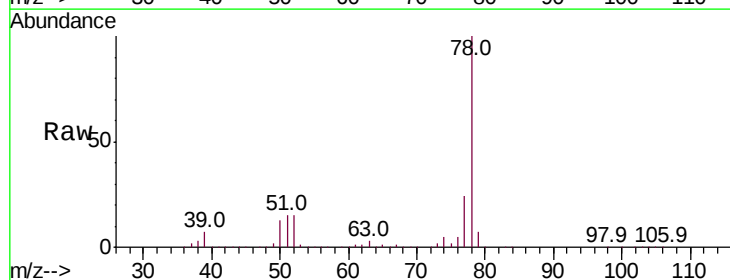


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 98.00 (97.70 to 98.70): VN0

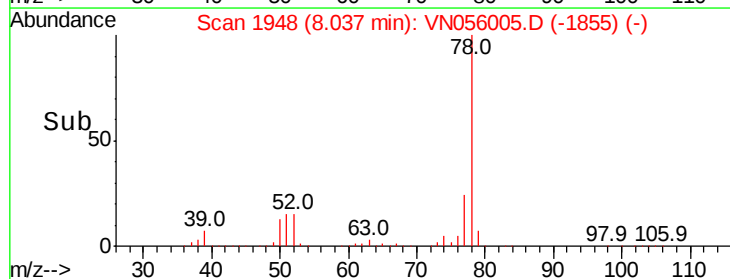
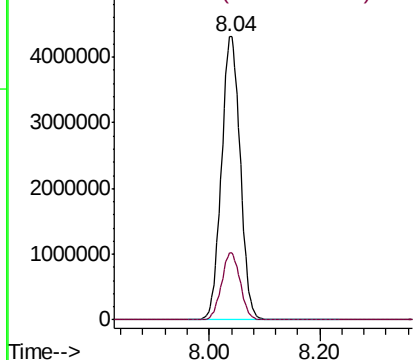


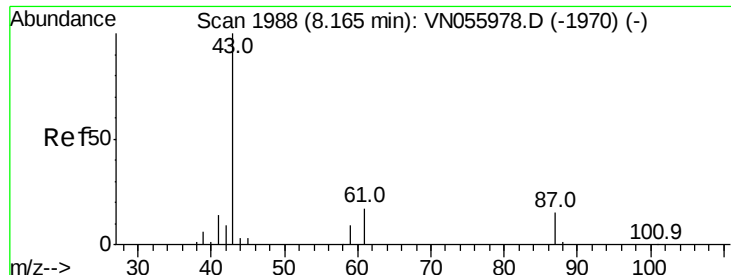
#40
Benzene
Concen: 635.706 ug/l
RT: 8.04 min Scan# 1948
Delta R.T. 0.00 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.8	28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





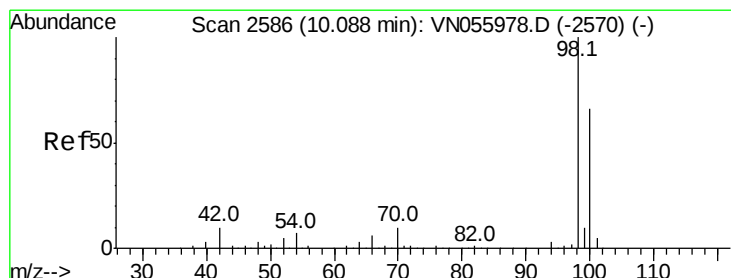
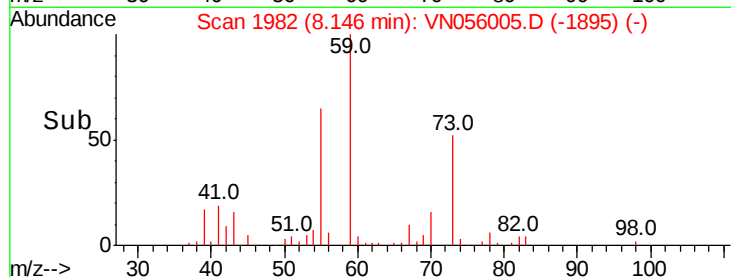
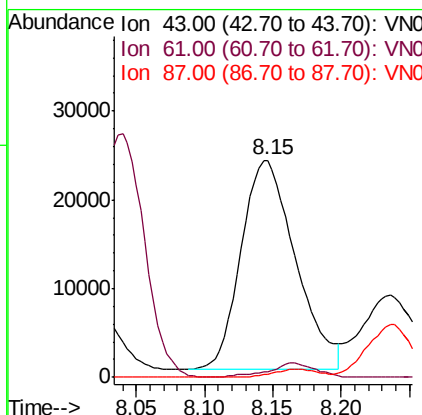
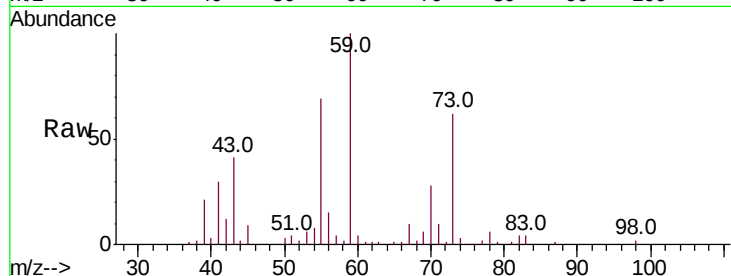
#43
Isopropyl Acetate
Concen: 8.614 ug/l
RT: 8.15 min Scan# 1982
Delta R.T. -0.02 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Instrument :
MSVOA_N
ClientSampled :
21643

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	22.2	33.4#
87	0.0	11.4	17.2#

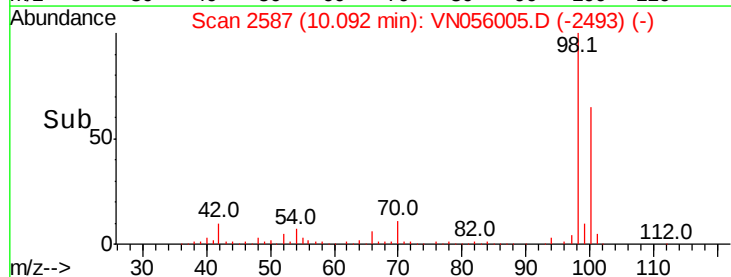
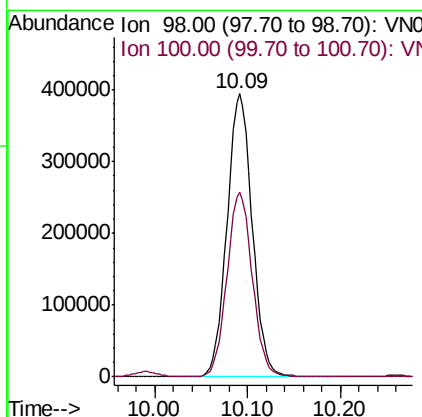
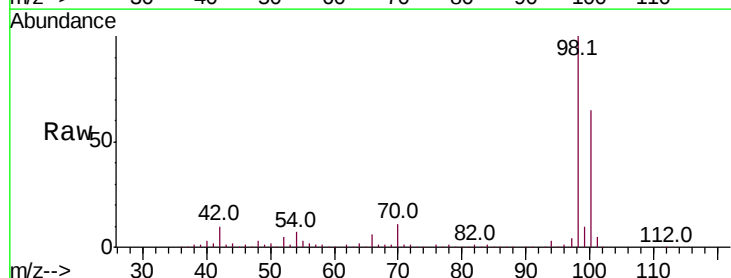
Manual Integrations
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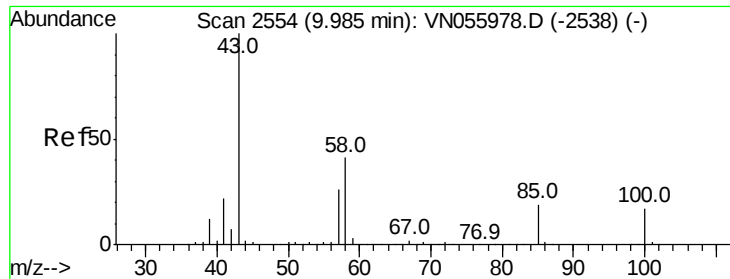
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6/6/2019 12:04:51 PM



#50
Toluene-d8
Concen: 51.766 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 15.060 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN056005.D

Acq: 5 Jun 2019 13:16

Instrument :

MSVOA_N

ClientSampled :

21643

Tot Ion: 43 Resp: 70995

Ion Ratio Lower Upper

43 100

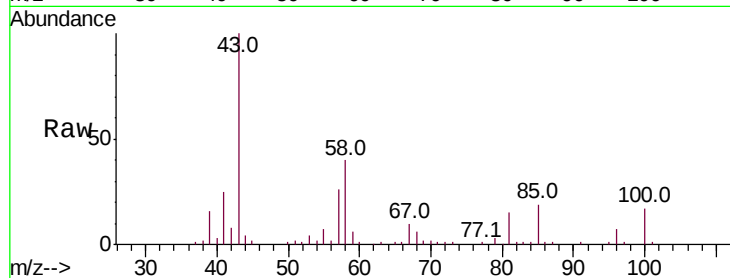
58 45.3 32.1 48.1

Manual Integrations

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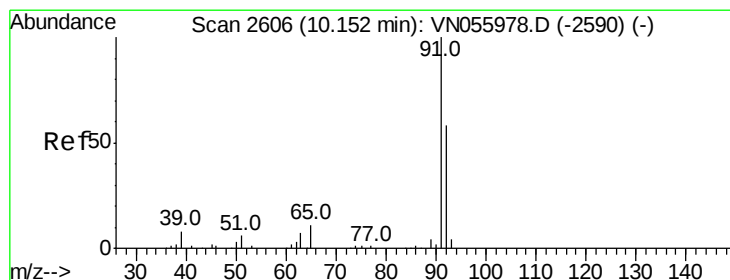
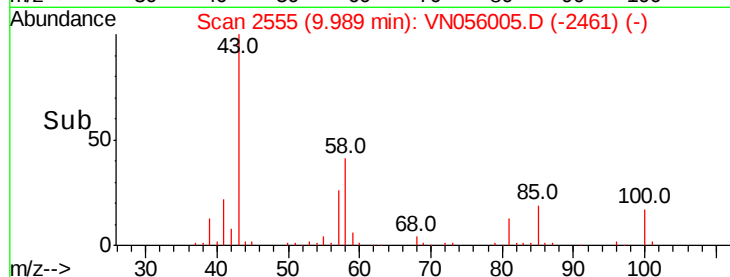
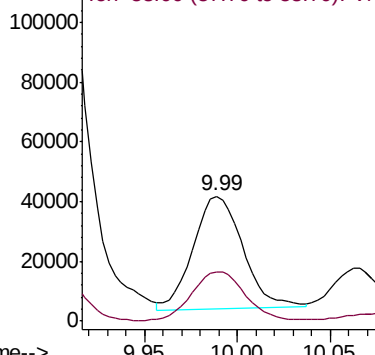
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6/6/2019 12:04:51 PM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 2429.977 ug/l m

RT: 10.15 min Scan# 2604

Delta R.T. -0.01 min

Lab File: VN056005.D

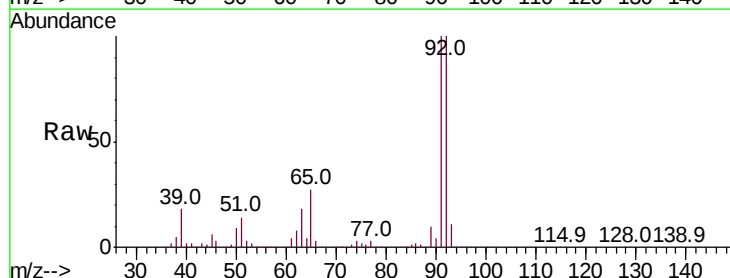
Acq: 5 Jun 2019 13:16

Tgt Ion: 92 Resp: 24012067

Ion Ratio Lower Upper

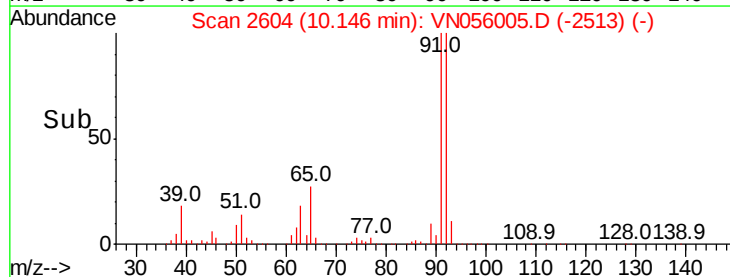
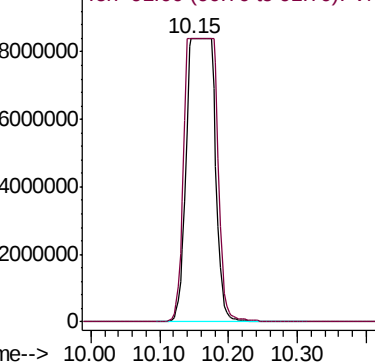
92 100

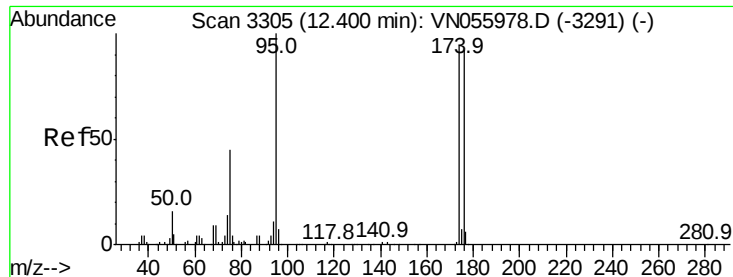
91 0.0 139.4 209.2#



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





#62

4-Bromofluorobenzene

Concen: 58.345 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056005.D

Acq: 5 Jun 2019 13:16

Instrument :

MSVOA_N

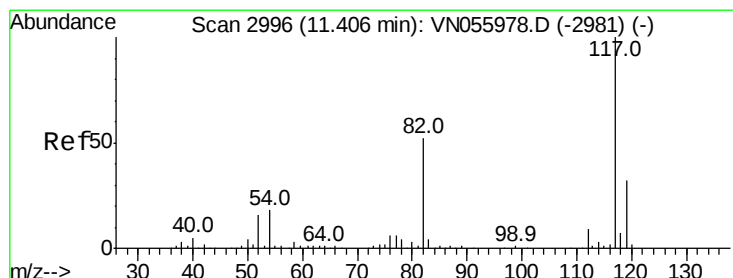
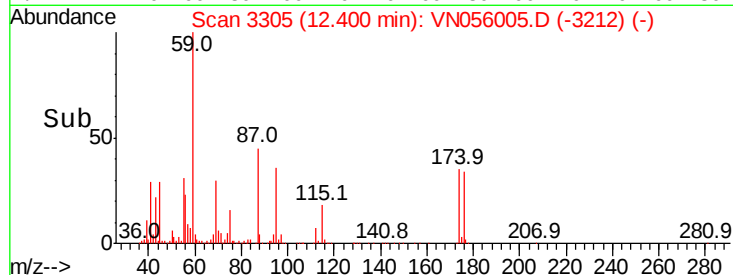
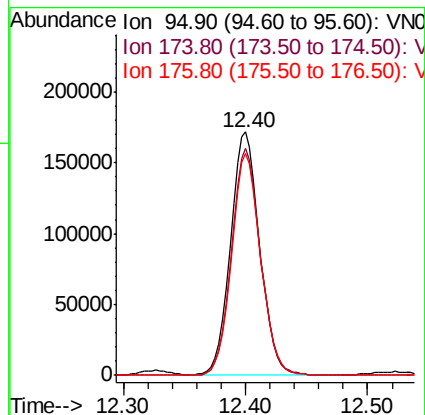
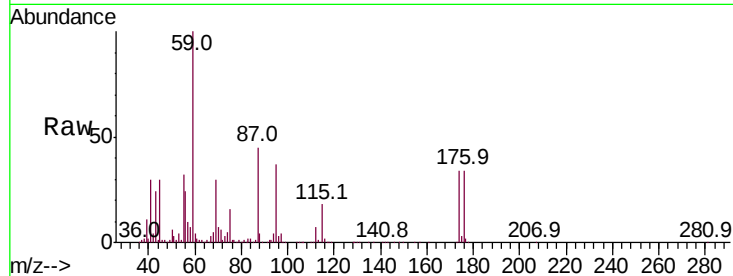
ClientSampled :

21643

Tot Ion:	95	Resp:	284843
Ion Ratio	Lower	Upper	
95	100		
174	93.1	0.0	191.0
176	90.8	0.0	185.2

Manual Integrations
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6/6/2019 12:04:51 PM



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

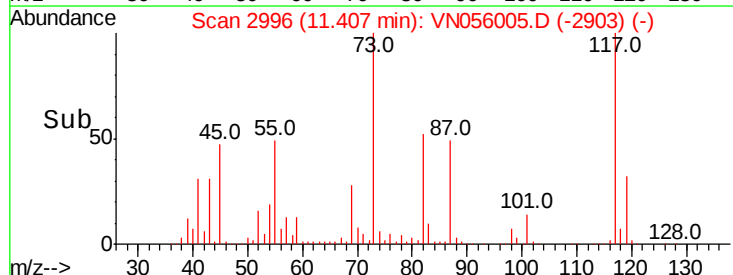
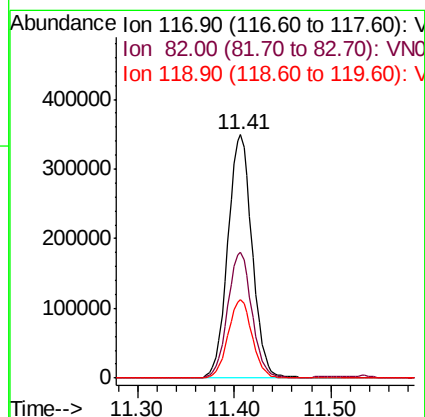
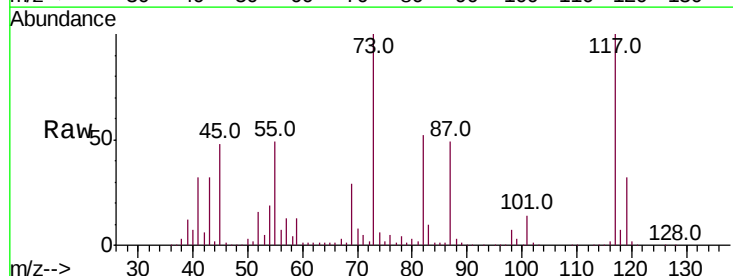
RT: 11.41 min Scan# 2996

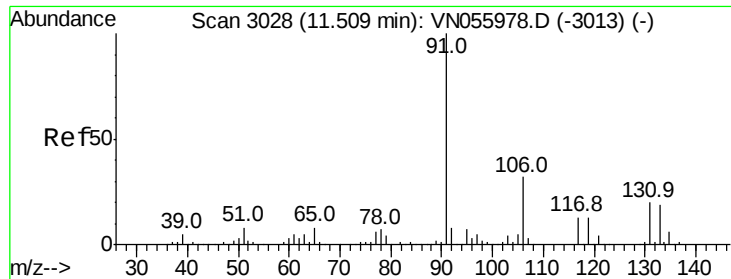
Delta R.T. 0.00 min

Lab File: VN056005.D

Acq: 5 Jun 2019 13:16

Tgt Ion:	117	Resp:	608844
Ion Ratio	Lower	Upper	
117	100		
82	51.7	41.8	62.8
119	32.3	25.4	38.0





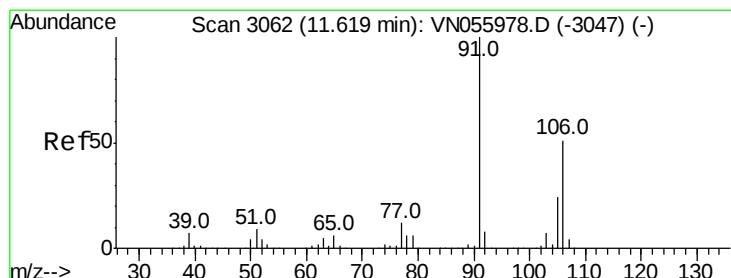
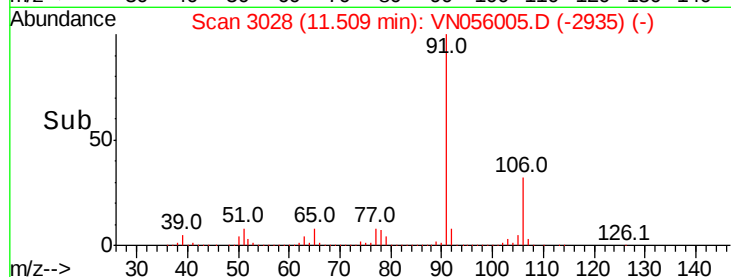
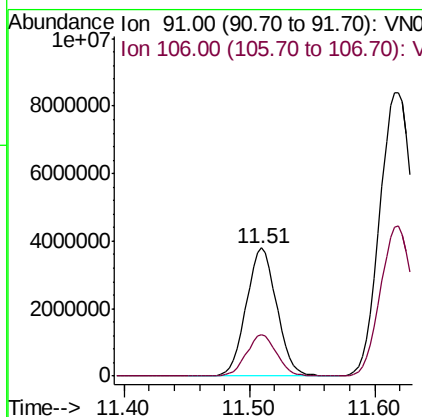
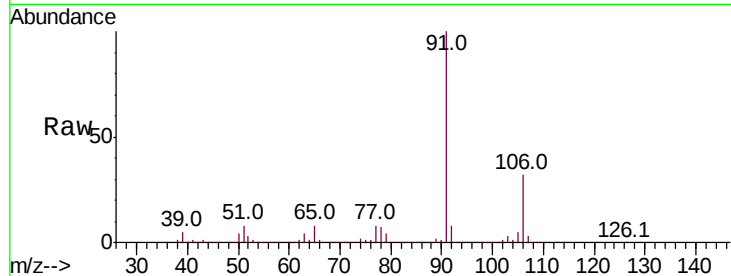
#67
Ethyl Benzene
Concen: 305.788 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Instrument :
MSVOA_N
ClientSampled :
21643

Tot Ion: 91 Resp: 6442915
Ion Ratio Lower Upper
91 100
106 32.4 25.1 37.7

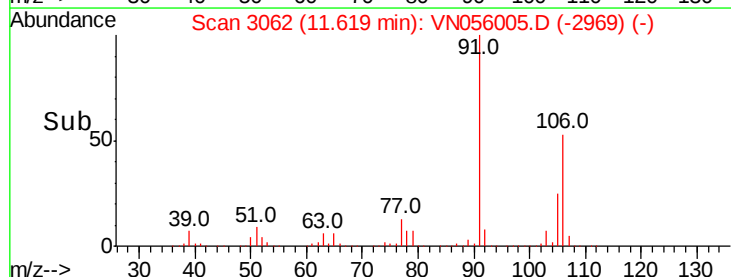
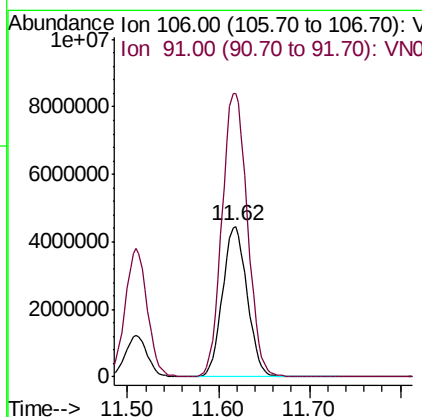
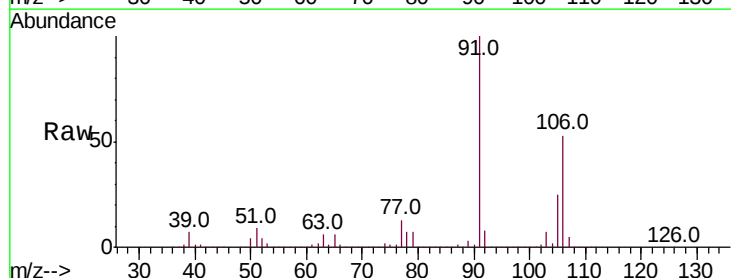
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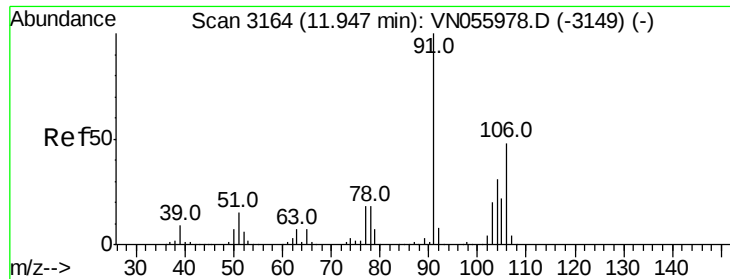
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6/6/2019 12:04:51 PM



#68
m/p-Xylenes
Concen: 1045.109 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Tgt Ion: 106 Resp: 8412008
Ion Ratio Lower Upper
106 100
91 194.1 159.3 238.9





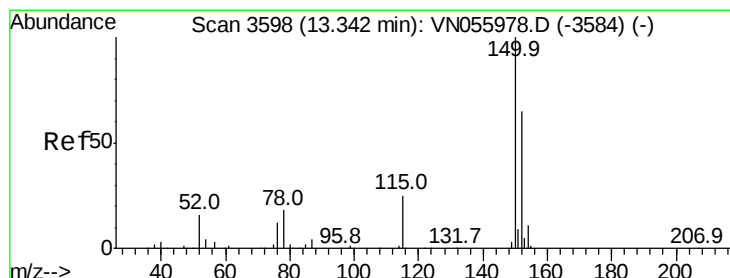
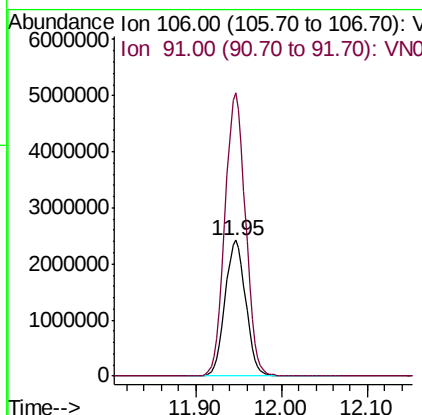
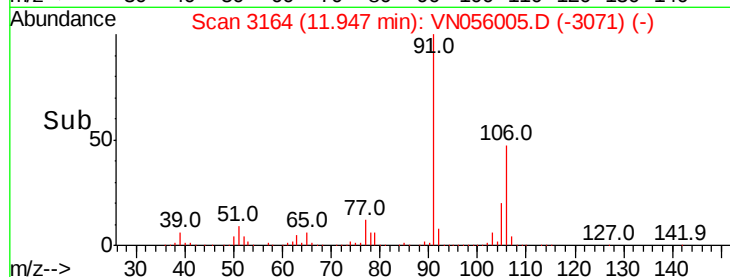
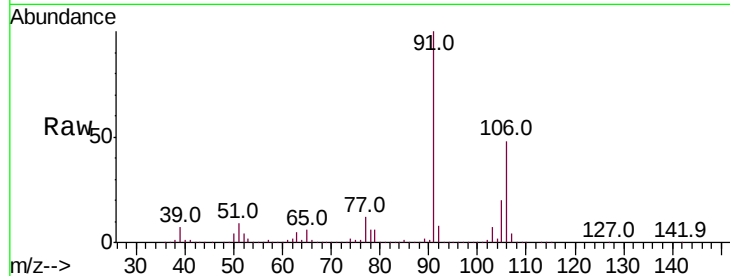
#69
o-Xylene
Concen: 511.234 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Instrument :
MSVOA_N
ClientSampled :
21643

Tot Ion:106 Resp: 4047653
Ion Ratio Lower Upper
106 100
91 208.2 104.7 314.1

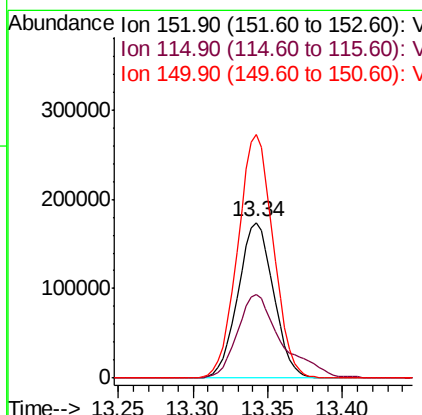
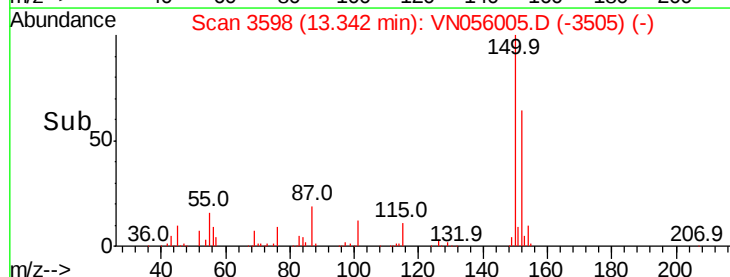
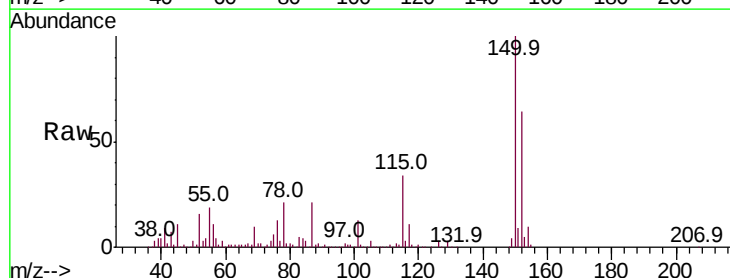
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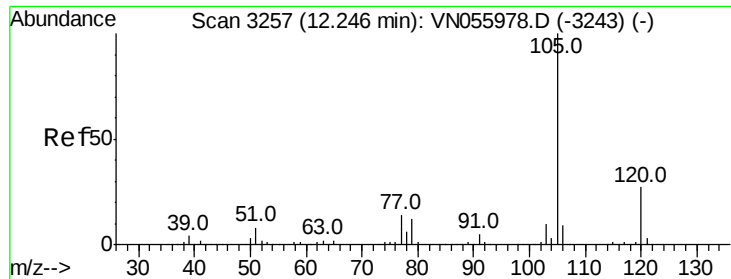
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6/6/2019 12:04:51 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Tgt Ion:152 Resp: 286650
Ion Ratio Lower Upper
152 100
115 66.1 27.0 81.0
150 156.6 0.0 343.2





#73

Isopropylbenzene

Concen: 10.825 ug/l

RT: 12.25 min Scan# 3257

Delta R.T. 0.00 min

Lab File: VN056005.D

Acq: 5 Jun 2019 13:16

Instrument :

MSVOA_N

ClientSampleId :

21643

Tot Ion: 105 Resp: 259915

Ion Ratio Lower Upper

105 100

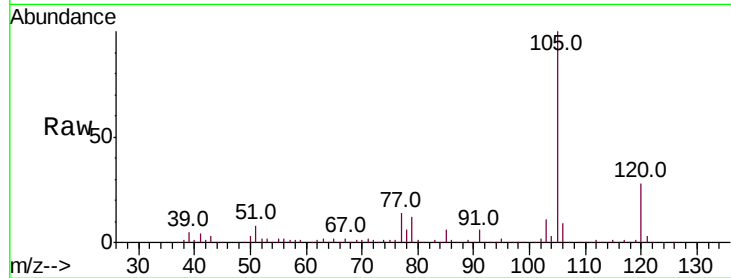
120 27.1 13.6 40.7

Manual Integrations

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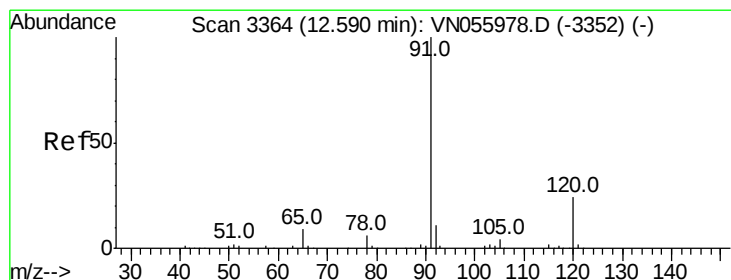
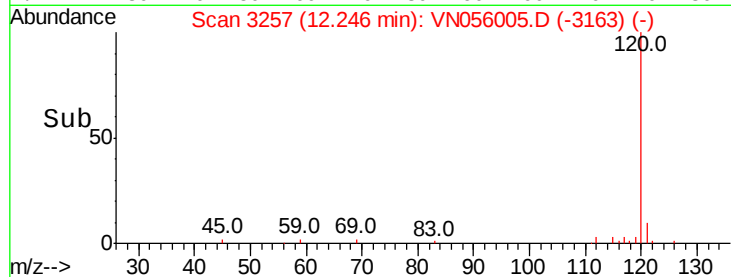
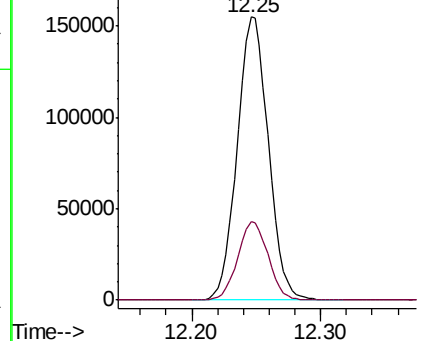
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6/6/2019 12:04:51 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 29.088 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN056005.D

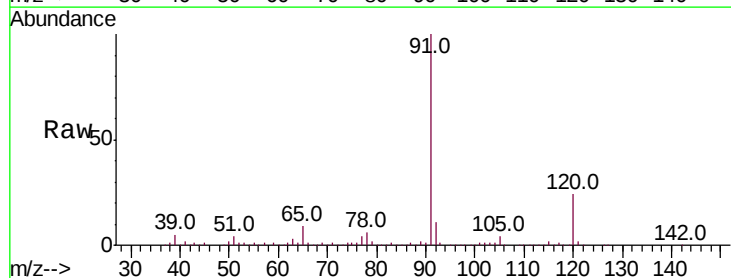
Acq: 5 Jun 2019 13:16

Tgt Ion: 91 Resp: 705396

Ion Ratio Lower Upper

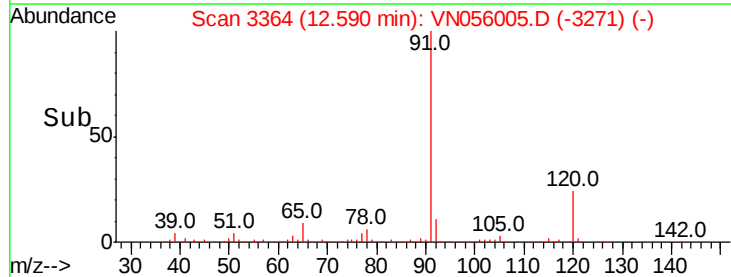
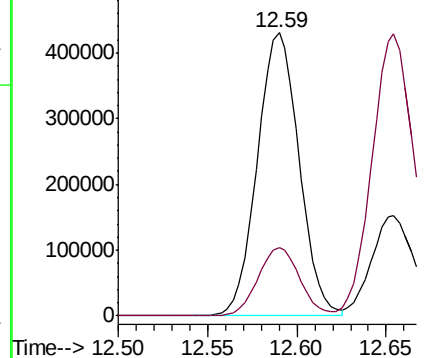
91 100

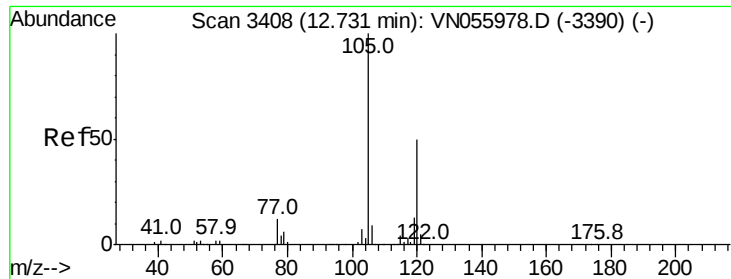
120 24.2 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





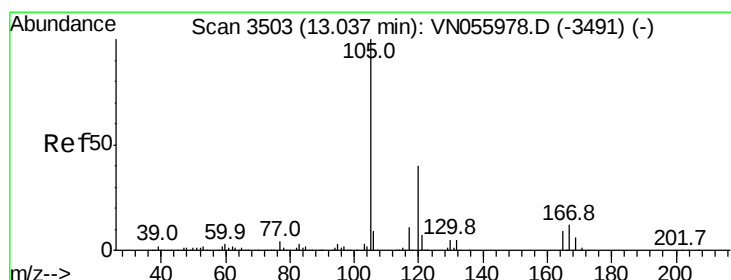
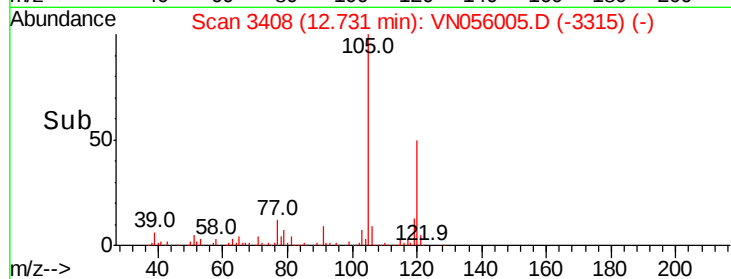
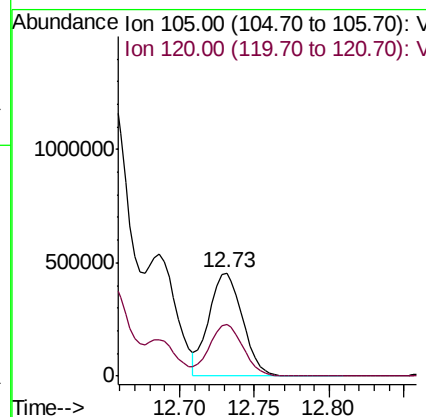
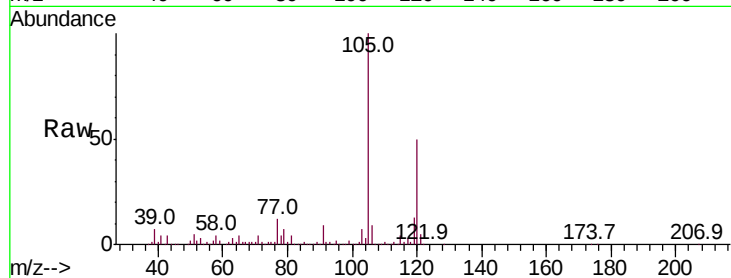
#80
 1,3,5-Trimethylbenzene
 Concen: 36.829 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN056005.D
 Acq: 5 Jun 2019 13:16

Instrument :
 MSVOA_N
 ClientSampled :
 21643

Tot Ion	Ratio	Lower	Upper
105	100		
120	50.3	24.7	74.1

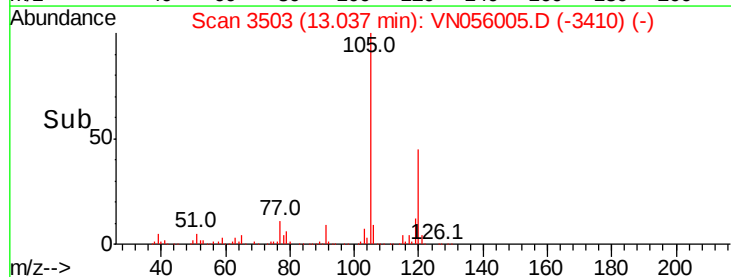
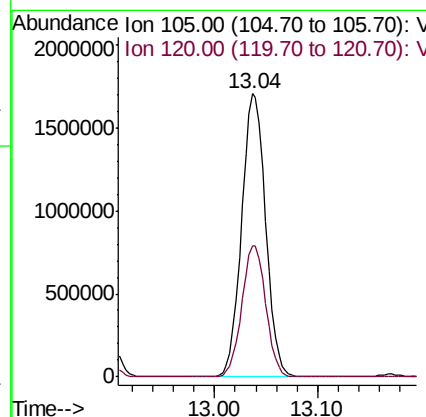
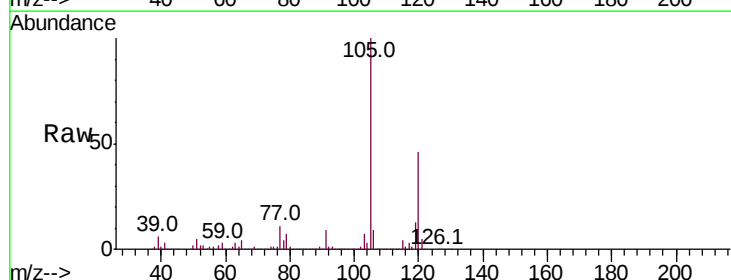
Manual Integrations
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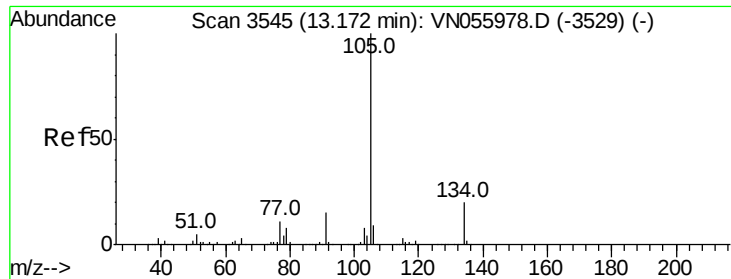
MMDadoda
 6/6/2019 12:04:51 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 151.097 ug/l
 RT: 13.04 min Scan# 3503
 Delta R.T. 0.00 min
 Lab File: VN056005.D
 Acq: 5 Jun 2019 13:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.2	23.0	69.0





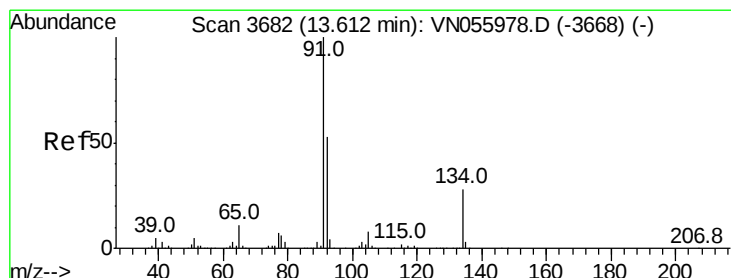
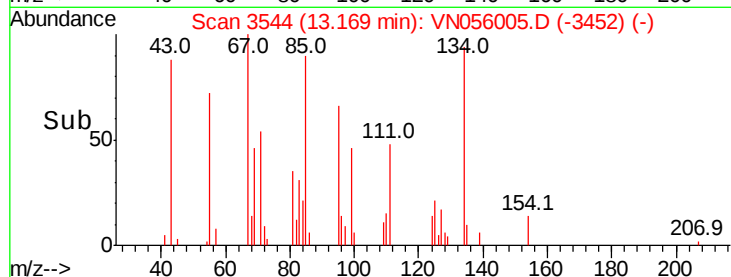
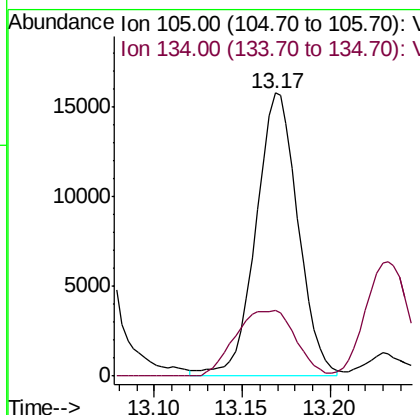
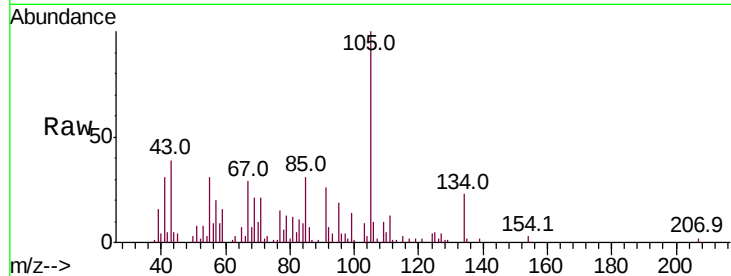
#85
 sec-Butylbenzene
 Concen: 1.224 ug/l m
 RT: 13.17 min Scan# 3544
 Delta R.T. -0.00 min
 Lab File: VN056005.D
 Acq: 5 Jun 2019 13:16

Instrument :
 MSVOA_N
 ClientSampled :
 21643

Tot Ion:105 Resp: 26291
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.4 31.2#

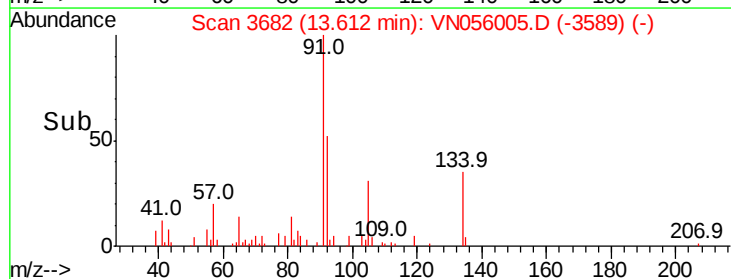
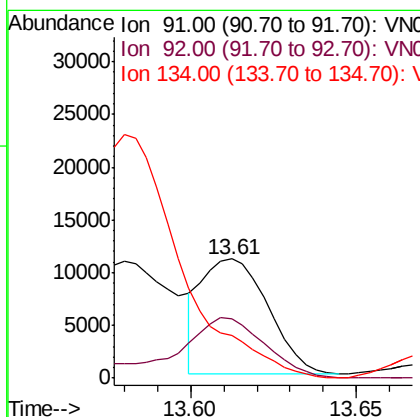
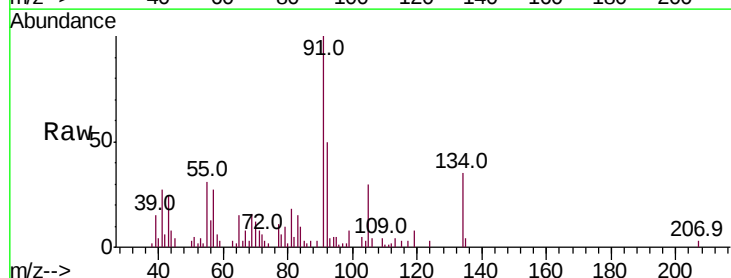
Manual Integrations
 APPROVED

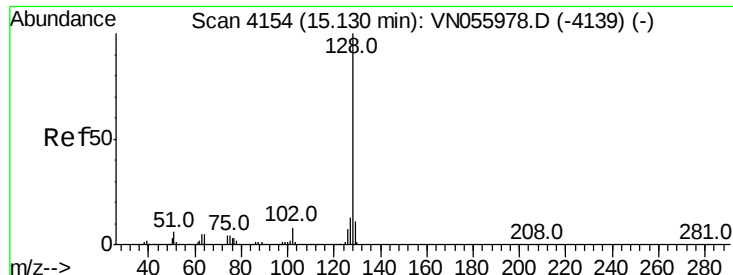
MMDadoda
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#89
 n-Butylbenzene
 Concen: 1.058 ug/l
 RT: 13.61 min Scan# 3682
 Delta R.T. 0.00 min
 Lab File: VN056005.D
 Acq: 5 Jun 2019 13:16

Tgt Ion: 91 Resp: 15068
 Ion Ratio Lower Upper
 91 100
 92 64.5 26.4 79.0
 134 0.0 13.9 41.7#





#95
Naphthalene
Concen: 19.197 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN056005.D
Acq: 5 Jun 2019 13:16

Instrument :
MSVOA_N
ClientSampleId :
21643

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.8	10.3	15.5
129	11.3	8.7	13.1

Manual Integrations
APPROVED

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