

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072619\
 Data File : VN056935.D
 Acq On : 25 Jul 2019 21:37
 Operator : JC/SP
 Sample : VN0726WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

Manual Integrations
 APPROVED

MMDadoda
 7/26/2019 3:38:00 PM

Quant Time: Jul 26 04:44:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 26 04:10:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	465699	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	707572	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	617298	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	238523	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	225108	46.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.42%	
35) Dibromofluoromethane	7.58	113	204778	45.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.72%	
50) Toluene-d8	10.08	98	776217	45.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.56%	
62) 4-Bromofluorobenzene	12.40	95	239705	42.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.64%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.84	85	101763	18.736	ug/l	99
3) Chloromethane	2.05	50	113891	18.975	ug/l	97
4) Vinyl Chloride	2.17	62	107161	18.961	ug/l	96
5) Bromomethane	2.55	94	66496	19.452	ug/l	95
6) Chloroethane	2.69	64	58175	18.544	ug/l	100
7) Trichlorofluoromethane	3.00	101	133879	18.175	ug/l	100
8) Diethyl Ether	3.39	74	50631	18.354	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	82681	18.268	ug/l	99
10) Methyl Iodide	3.93	142	116160	17.466	ug/l	99
11) Tert butyl alcohol	4.77	59	63149	90.838	ug/l #	85
12) 1,1-Dichloroethene	3.72	96	79892	18.281	ug/l	99
13) Acrolein	3.59	56	33358	85.625	ug/l	99
14) Allyl chloride	4.30	41	126721	17.871	ug/l	99
15) Acrylonitrile	4.97	53	184952	92.450	ug/l	100
16) Acetone	3.80	43	141222	85.817	ug/l	98
17) Carbon Disulfide	4.03	76	203009	17.247	ug/l	97
18) Methyl Acetate	4.31	43	103739	18.006	ug/l	100
19) Methyl tert-butyl Ether	5.02	73	238220	18.538	ug/l	100
20) Methylene Chloride	4.53	84	94335	18.102	ug/l	97
21) trans-1,2-Dichloroethene	5.02	96	85942	18.377	ug/l	98
22) Diisopropyl ether	5.93	45	276341	19.136	ug/l	98
23) Vinyl Acetate	5.88	43	933120	93.805	ug/l	99
24) 1,1-Dichloroethane	5.83	63	160806	18.954	ug/l	98
25) 2-Butanone	6.82	43	226963	89.600	ug/l	99
26) 2,2-Dichloropropane	6.81	77	97794	15.706	ug/l	97
27) cis-1,2-Dichloroethene	6.81	96	100119	18.761	ug/l	97
28) Bromochloromethane	7.18	49	81880	20.912	ug/l	99
29) Tetrahydrofuran	7.19	42	157669	94.991	ug/l	100
30) Chloroform	7.36	83	154828	17.720	ug/l	98
31) Cyclohexane	7.64	56	148600	17.998	ug/l	95
32) 1,1,1-Trichloroethane	7.55	97	127068	18.159	ug/l	99
36) 1,1-Dichloropropene	7.78	75	116478	18.005	ug/l	99
37) Ethyl Acetate	6.92	43	94992	18.121	ug/l	98
38) Carbon Tetrachloride	7.76	117	109415	17.782	ug/l	96

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	141689	17.971	ug/l	95
40) Benzene	8.03	78	365741	18.131	ug/l	99
41) Methacrylonitrile	7.16	41	35981m	15.607	ug/l	
42) 1,2-Dichloroethane	8.11	62	111957	17.969	ug/l	99
43) Isopropyl Acetate	8.15	43	154409	17.904	ug/l	99
44) Trichloroethene	8.82	130	98997	17.989	ug/l	99
45) 1,2-Dichloropropane	9.11	63	98852	18.234	ug/l	97
46) Dibromomethane	9.20	93	59720	18.273	ug/l	100
47) Bromodichloromethane	9.39	83	111391	17.454	ug/l	96
48) Methyl methacrylate	9.19	41	76469	18.471	ug/l	97
49) 1,4-Dioxane	9.19	88	32383	373.553	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	473703	92.383	ug/l	99
52) Toluene	10.15	92	224674	18.570	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	112096	17.421	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	132464	17.487	ug/l	97
55) 1,1,2-Trichloroethane	10.55	97	88026	18.154	ug/l	97
56) Ethyl methacrylate	10.42	69	119695	18.360	ug/l	99
57) 1,3-Dichloropropane	10.70	76	146057	18.405	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	229559	83.291	ug/l	99
59) 2-Hexanone	10.74	43	318786	90.685	ug/l	100
60) Dibromochloromethane	10.90	129	85931	17.443	ug/l	100
61) 1,2-Dibromoethane	11.00	107	87886	18.261	ug/l	100
64) Tetrachloroethene	10.62	164	102164	18.118	ug/l	99
65) Chlorobenzene	11.43	112	235405	18.227	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.50	131	87300	18.176	ug/l	98
67) Ethyl Benzene	11.50	91	407038	18.305	ug/l	99
68) m/p-Xylenes	11.62	106	305911	36.894	ug/l	100
69) o-Xylene	11.94	106	148267	18.274	ug/l	99
70) Styrene	11.96	104	238271	17.403	ug/l	99
71) Bromoform	12.12	173	58115	17.420	ug/l #	98
73) Isopropylbenzene	12.24	105	396811	18.947	ug/l	99
74) N-amyl acetate	12.06	43	116446	18.272	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	113608	20.217	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	86572m	17.080	ug/l	
77) Bromobenzene	12.52	156	101626	18.320	ug/l	99
78) n-propylbenzene	12.59	91	413733	18.045	ug/l	100
79) 2-Chlorotoluene	12.67	91	256147	18.666	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	328093	18.302	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	24637	16.270	ug/l	91
82) 4-Chlorotoluene	12.77	91	241358	18.405	ug/l	98
83) tert-Butylbenzene	12.99	119	286612	19.077	ug/l	98
84) 1,2,4-Trimethylbenzene	13.03	105	321142	18.917	ug/l	100
85) sec-Butylbenzene	13.17	105	364987	18.274	ug/l	100
86) p-Isopropyltoluene	13.28	119	325826	18.461	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	151604	18.265	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	146768	18.466	ug/l	100
89) n-Butylbenzene	13.61	91	243477	17.861	ug/l	100
90) Hexachloroethane	13.87	117	53487	18.434	ug/l	99
91) 1,2-Dichlorobenzene	13.65	146	160083	19.041	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	15500	18.158	ug/l	99

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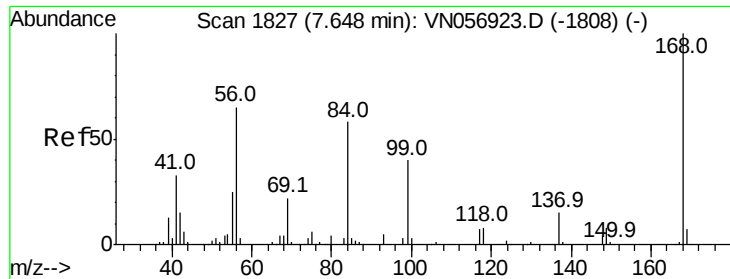
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.90	180	60458	16.826	ug/l	99
94) Hexachlorobutadiene	15.00	225	58772	18.465	ug/l	98
95) Naphthalene	15.12	128	150984	16.854	ug/l	100
96) 1,2,3-Trichlorobenzene	15.29	180	67560	16.960	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion:168 Resp: 465699

Ion Ratio Lower Upper

168 100

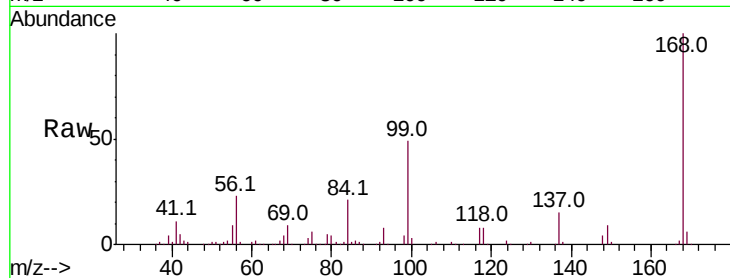
99 48.7 38.6 58.0

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

150000

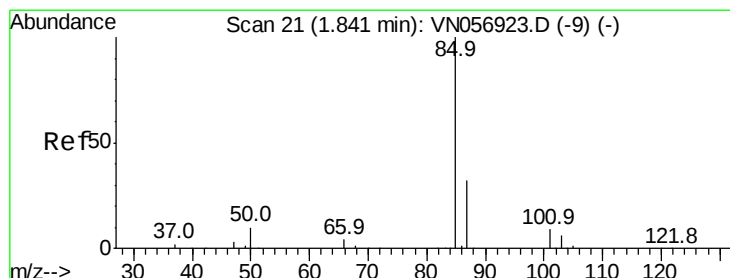
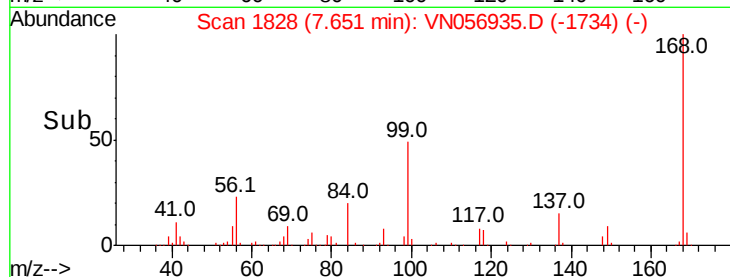
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50000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 18.736 ug/l

RT: 1.84 min Scan# 21

Delta R.T. 0.00 min

Lab File: VN056935.D

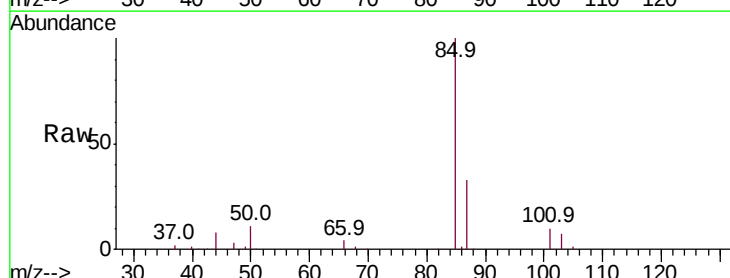
Acq: 25 Jul 2019 21:37

Tgt Ion: 85 Resp: 101763

Ion Ratio Lower Upper

85 100

87 32.8 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.84

80000

60000

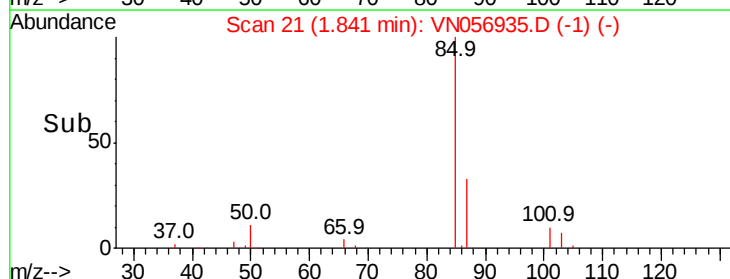
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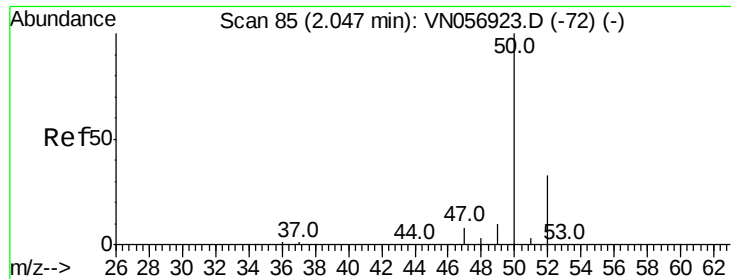
20000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 18.975 ug/l

RT: 2.05 min Scan# 85

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion: 50 Resp: 113891

Ion Ratio Lower Upper

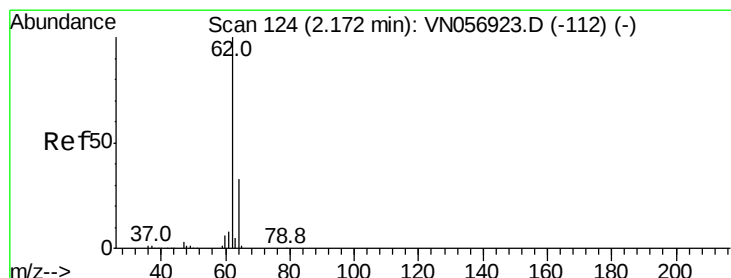
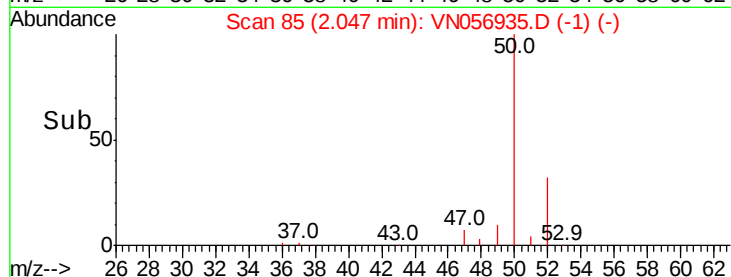
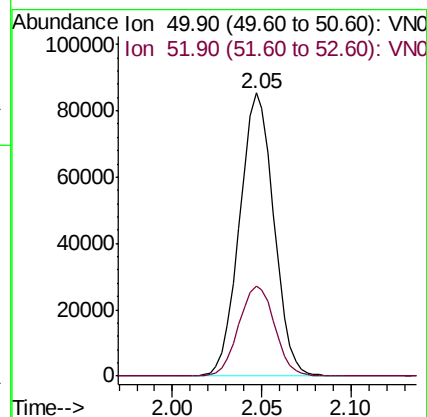
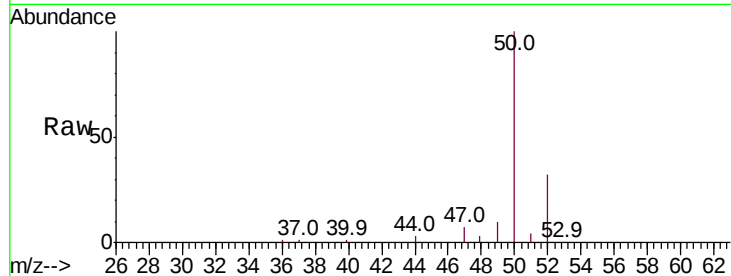
50 100

52 31.8 26.8 40.2

Manual Integrations
APPROVED

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7/26/2019 3:38:00 PM



#4

Vinyl Chloride

Concen: 18.961 ug/l

RT: 2.17 min Scan# 124

Delta R.T. -0.00 min

Lab File: VN056935.D

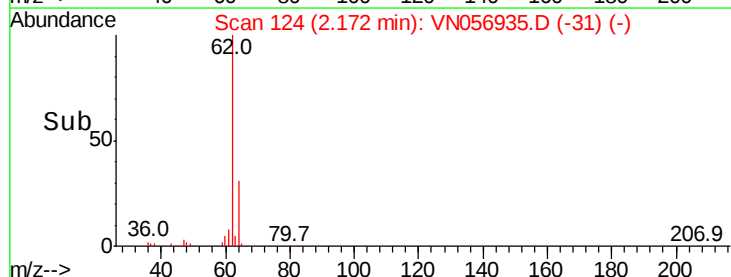
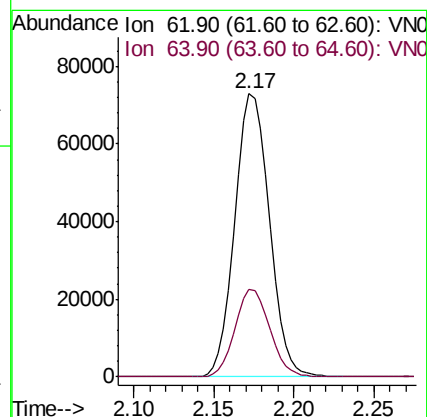
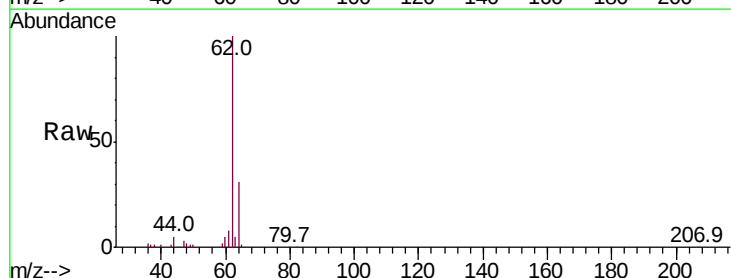
Acq: 25 Jul 2019 21:37

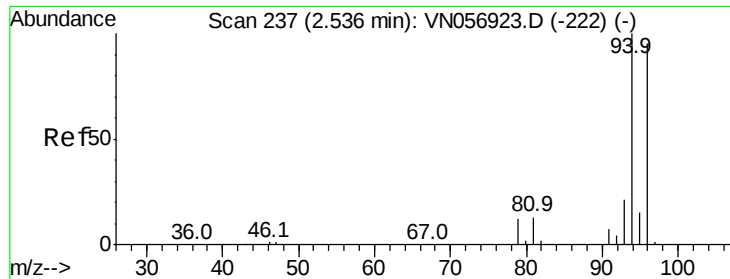
Tgt Ion: 62 Resp: 107161

Ion Ratio Lower Upper

62 100

64 30.8 26.4 39.6





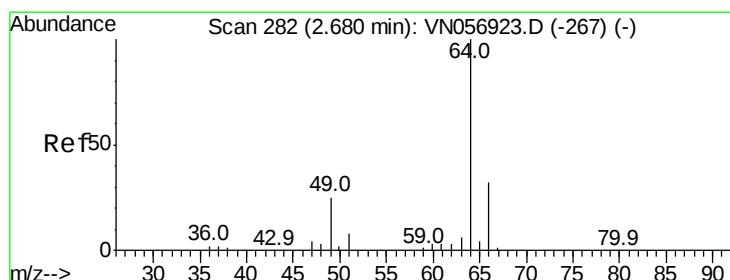
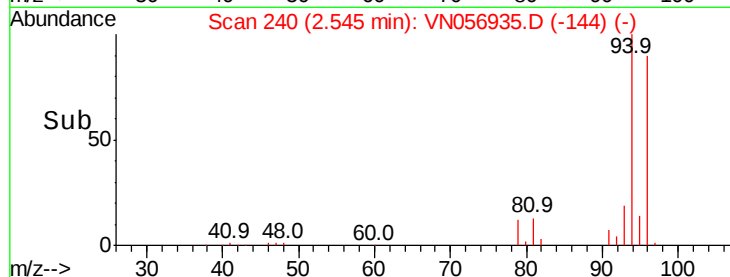
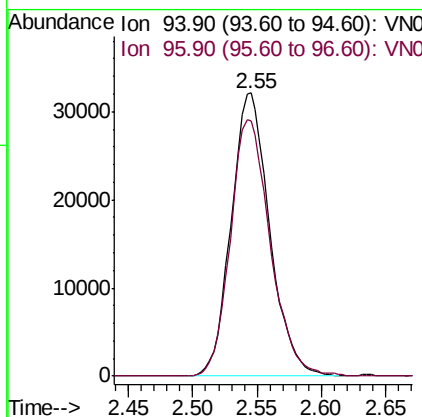
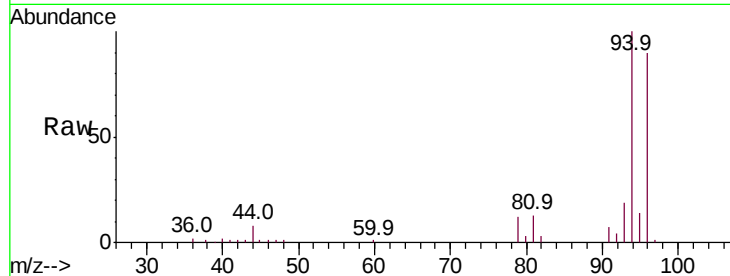
#5
Bromomethane
Concen: 19.452 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.01 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampled :
VN0726WBSD01

Tot Ion: 94 Resp: 66496
Ion Ratio Lower Upper
94 100
96 90.2 75.7 113.5

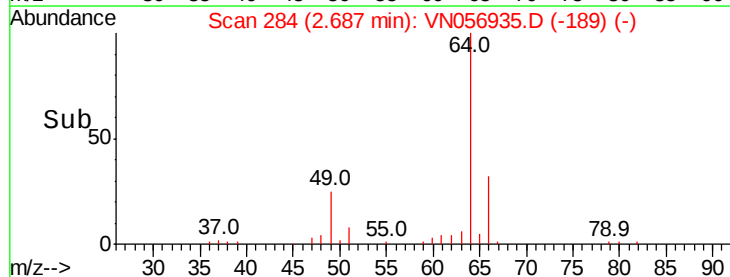
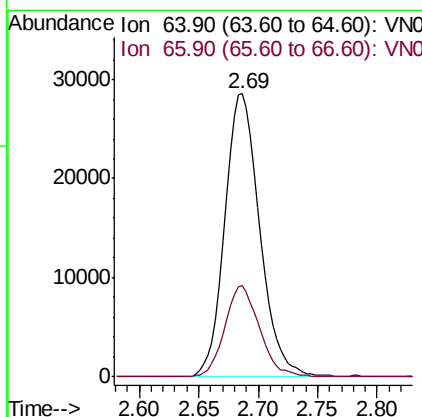
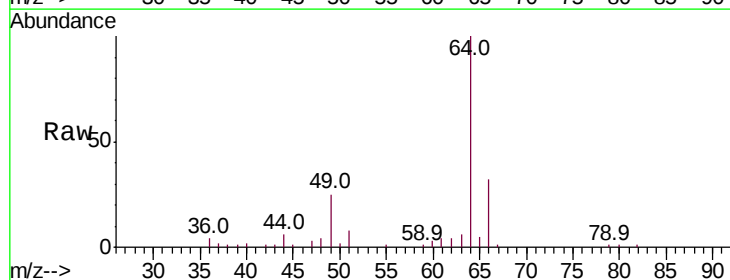
Manual Integrations
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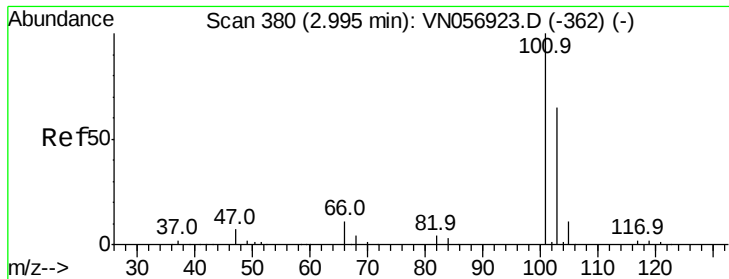
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7/26/2019 3:38:00 PM



#6
Chloroethane
Concen: 18.544 ug/l
RT: 2.69 min Scan# 284
Delta R.T. 0.01 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion: 64 Resp: 58175
Ion Ratio Lower Upper
64 100
66 32.4 25.8 38.6





#7

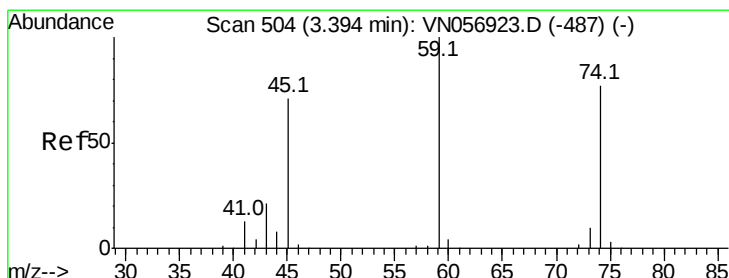
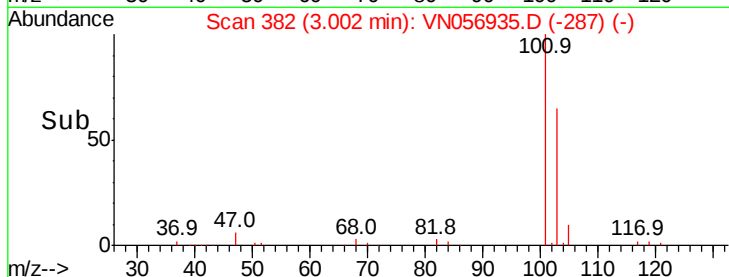
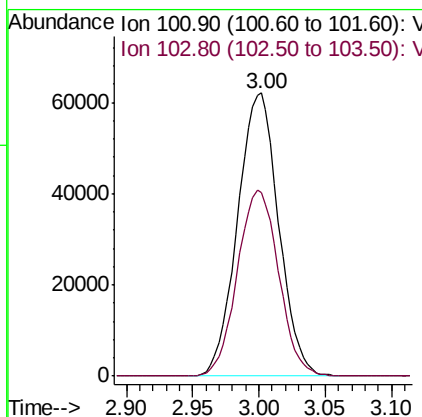
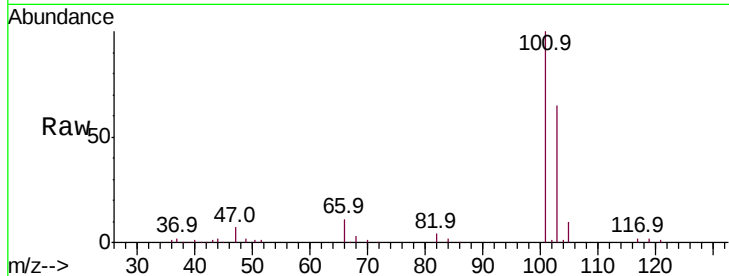
Trichlorofluoromethane
 Concen: 18.175 ug/l
 RT: 3.00 min Scan# 382
 Delta R.T. 0.01 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.0	78.0

Manual Integrations
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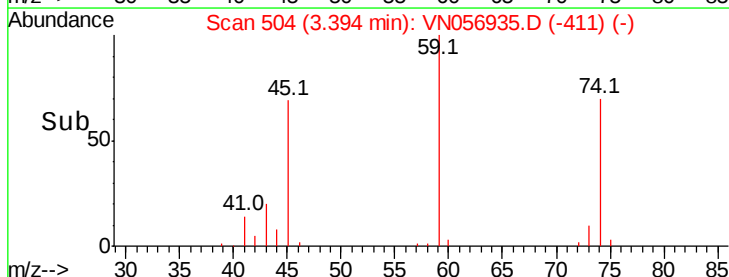
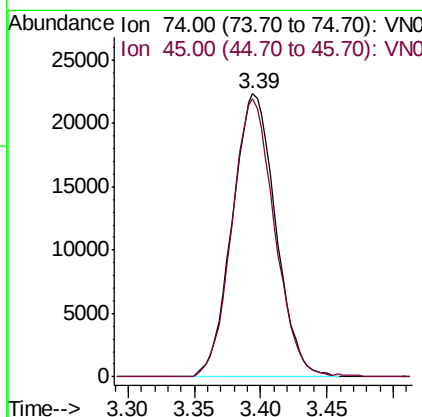
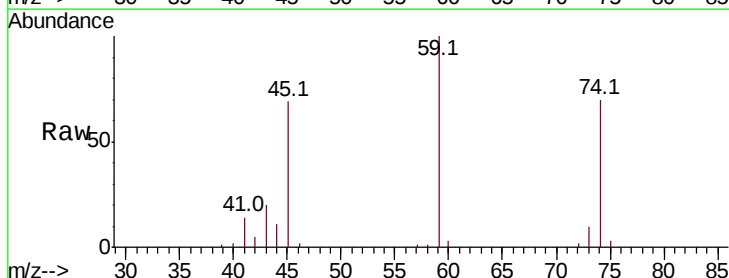
MMDadoda
 7/26/2019 3:38:00 PM

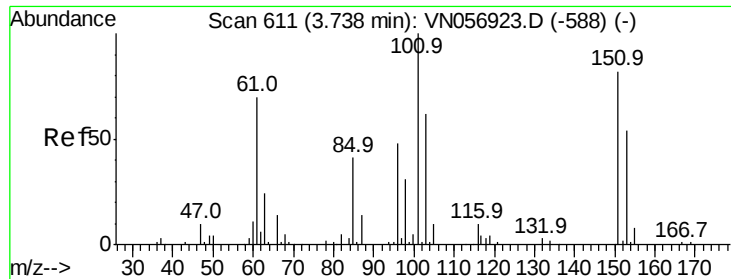


#8

Diethyl Ether
 Concen: 18.354 ug/l
 RT: 3.39 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
74	100		
45	96.7	48.1	144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.268 ug/l

RT: 3.74 min Scan# 611

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

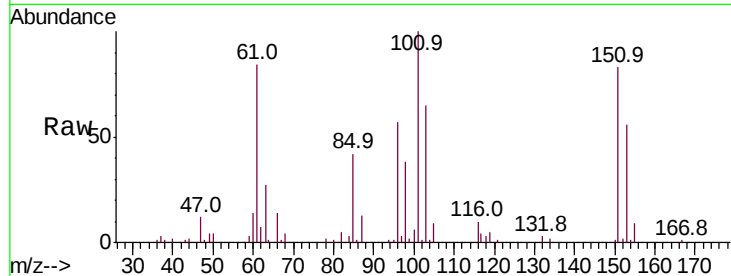
ClientSampleId :

VN0726WBSD01

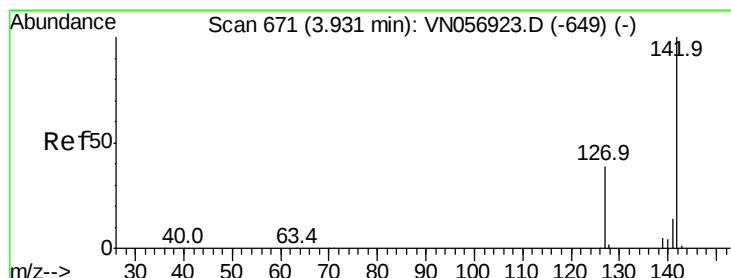
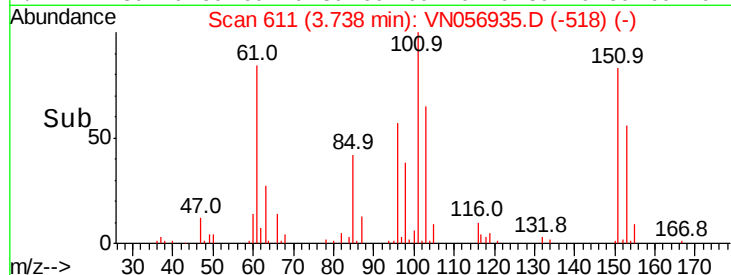
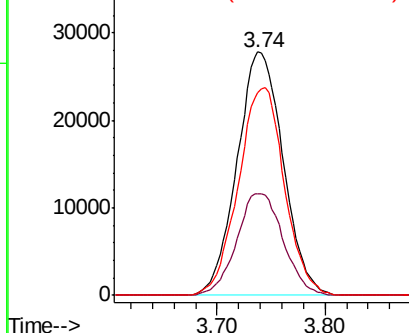
Tot Ion:	101	Resp:	82681
Ion Ratio	Lower	Upper	
101	100		
85	42.1	32.7	49.1
151	84.9	67.4	101.0

Manual Integrations
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7/26/2019 3:38:00 PM



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 17.466 ug/l

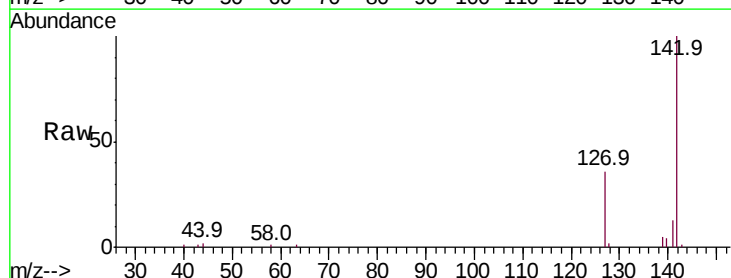
RT: 3.93 min Scan# 672

Delta R.T. 0.00 min

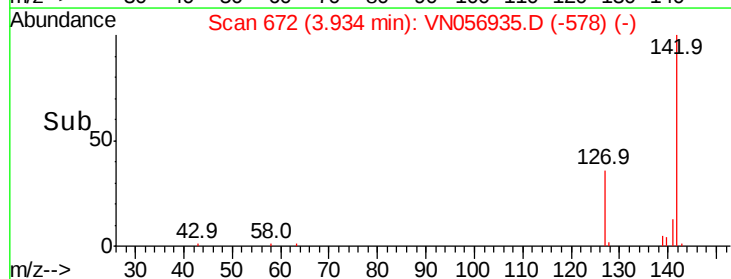
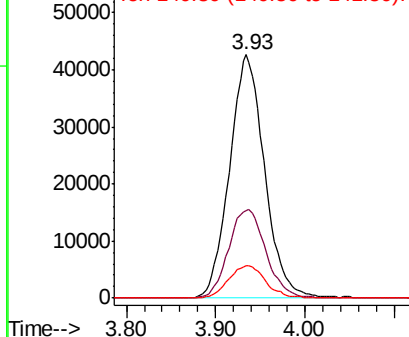
Lab File: VN056935.D

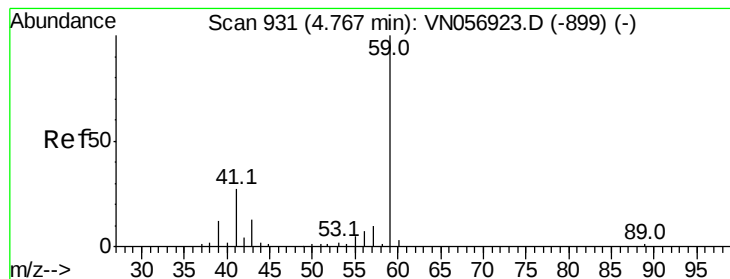
Acq: 25 Jul 2019 21:37

Tgt Ion:	142	Resp:	116160
Ion Ratio	Lower	Upper	
142	100		
127	38.7	30.5	45.7
141	14.1	11.1	16.7



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

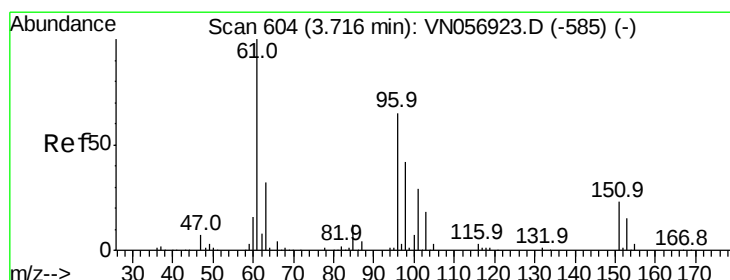
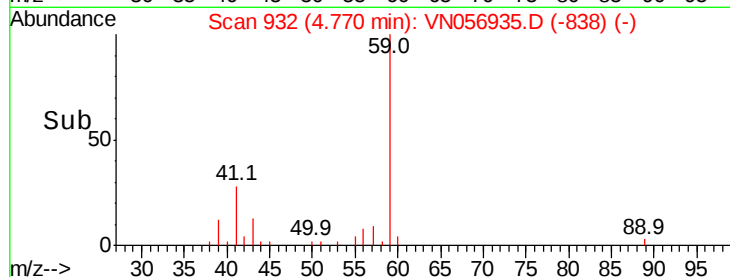
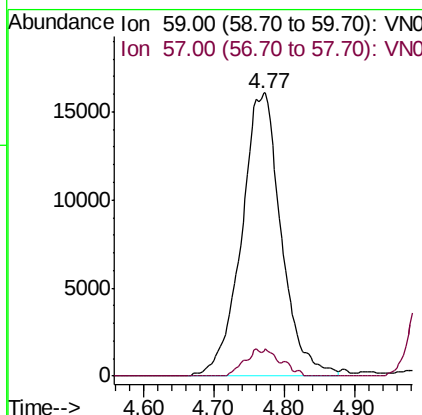
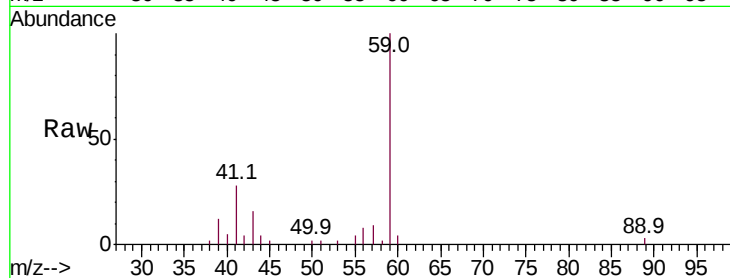
Tert butyl alcohol
Concen: 90.838 ug/l
RT: 4.77 min Scan# 932
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
59	100		
57	4.1	7.6	11.4#

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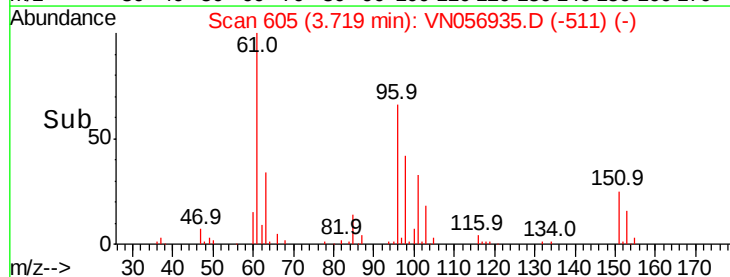
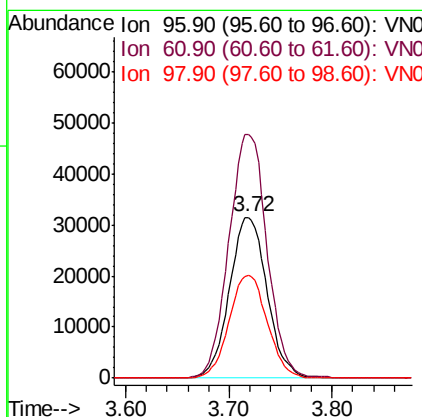
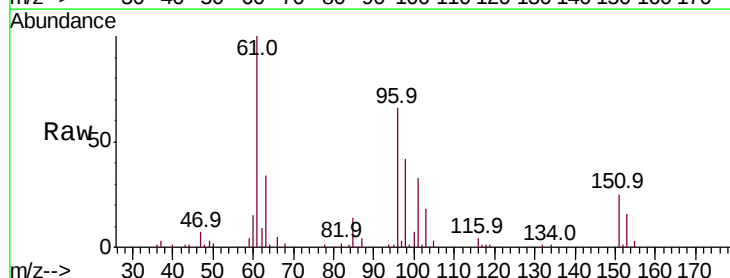
MMDadoda
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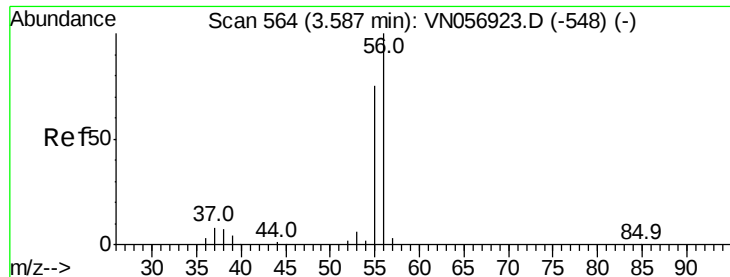


#12

1,1-Dichloroethene
Concen: 18.281 ug/l
RT: 3.72 min Scan# 605
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.4	122.4	183.6
98	64.0	51.3	76.9





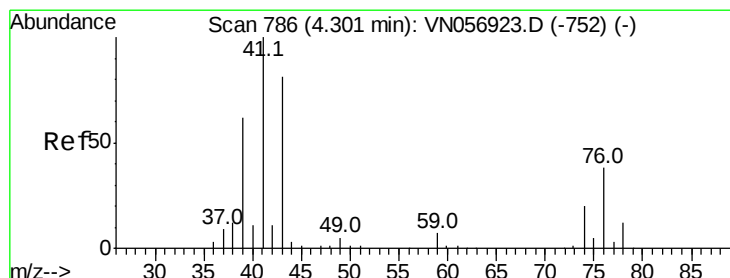
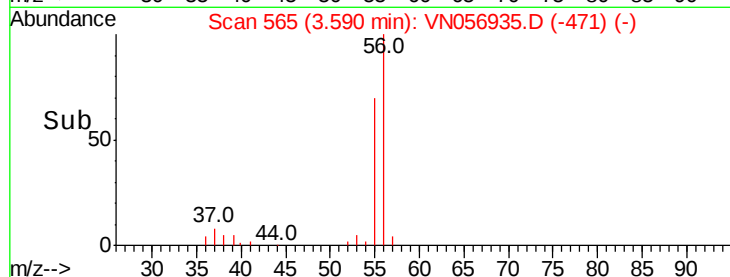
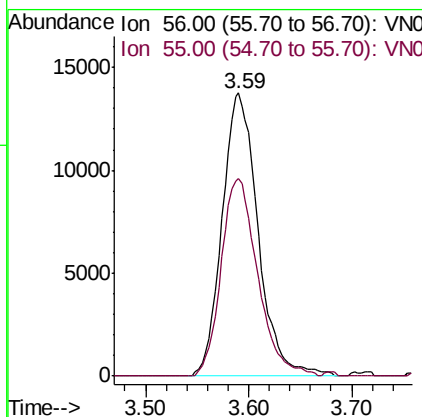
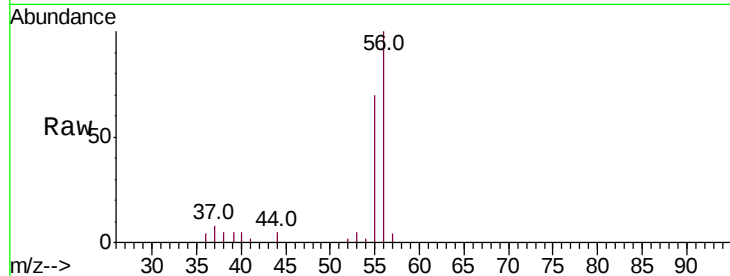
#13
Acrolein
Concen: 85.625 ug/l
RT: 3.59 min Scan# 565
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
56	100		
55	71.0	57.5	86.3

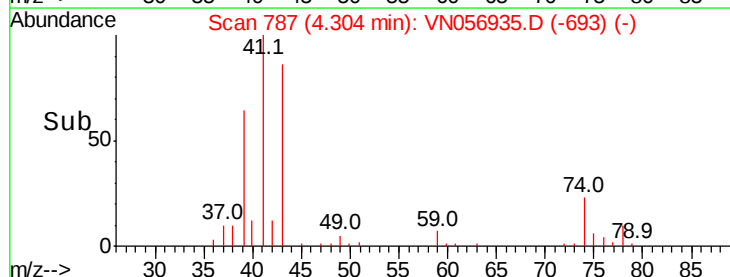
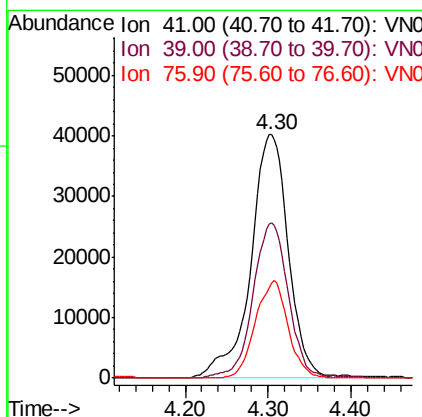
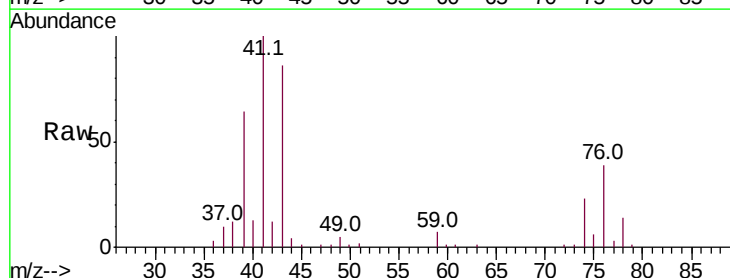
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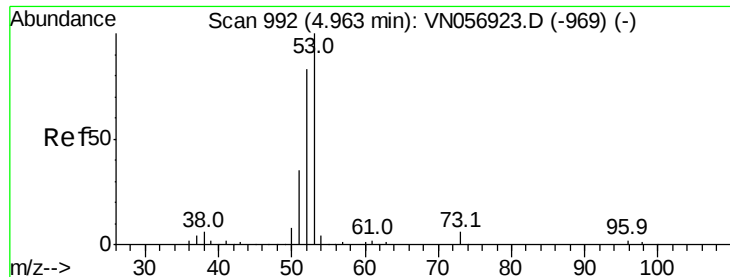
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#14
Allyl chloride
Concen: 17.871 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
41	100		
39	60.1	47.5	71.3
76	34.9	28.0	42.0





#15

Acrylonitrile

Concen: 92.450 ug/l

RT: 4.97 min Scan# 993

Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

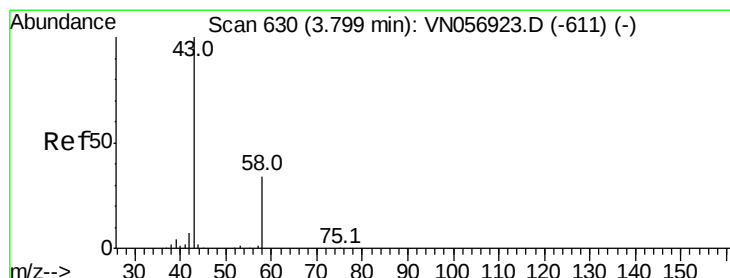
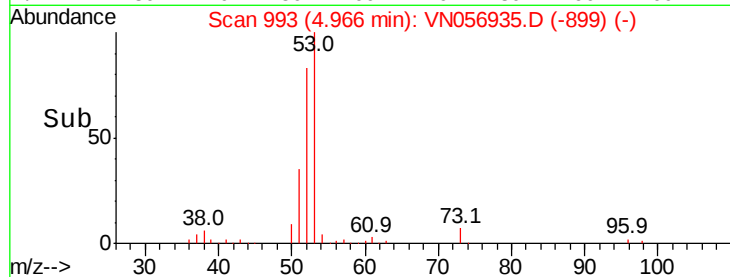
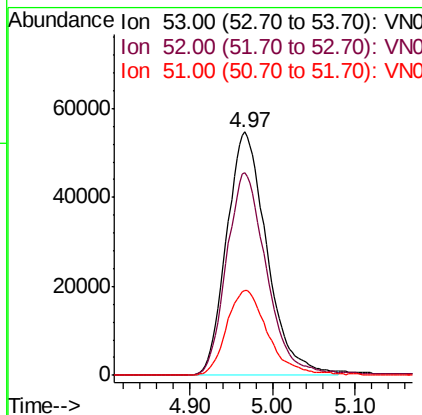
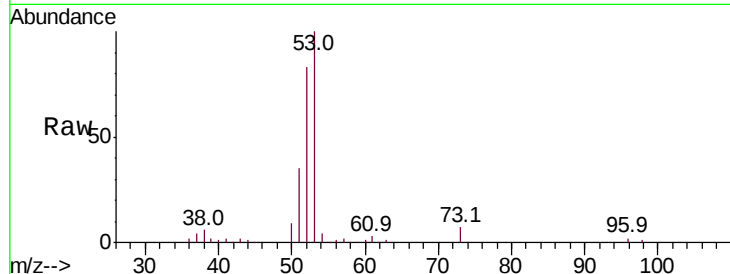
ClientSampleId :

VN0726WBSD01

Tot Ion:	53	Resp:	184952
Ion Ratio	Lower	Upper	
53	100		
52	82.0	65.5	98.3
51	35.2	28.1	42.1

Manual Integrations
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7/26/2019 3:38:00 PM



#16

Acetone

Concen: 85.817 ug/l

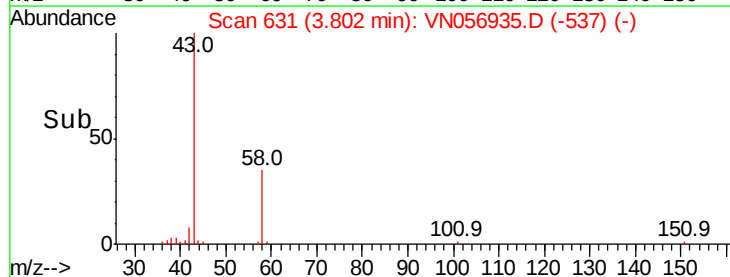
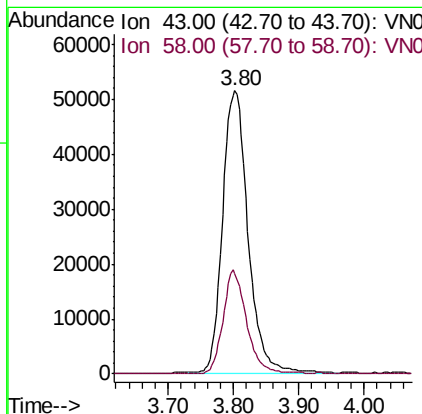
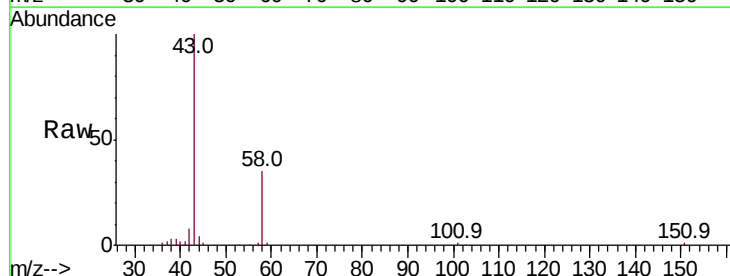
RT: 3.80 min Scan# 631

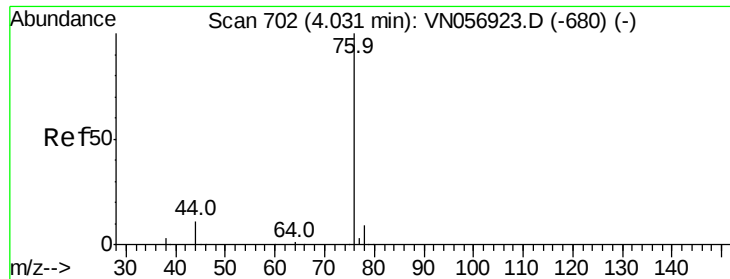
Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Tgt Ion:	43	Resp:	141222
Ion Ratio	Lower	Upper	
43	100		
58	35.4	27.3	40.9





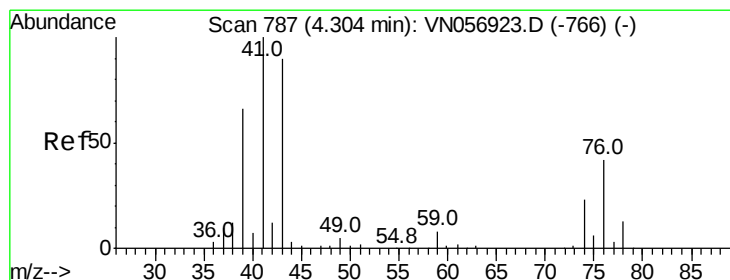
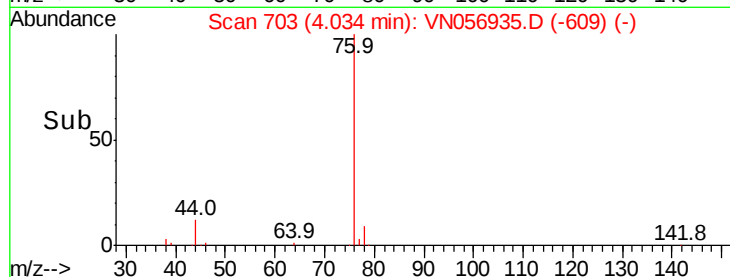
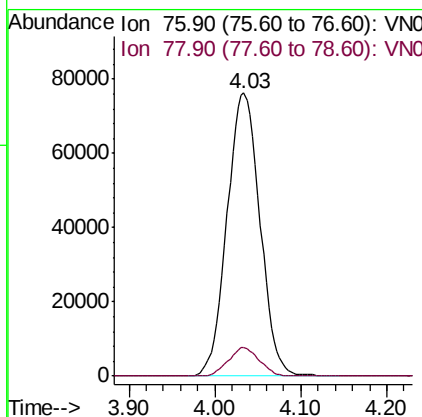
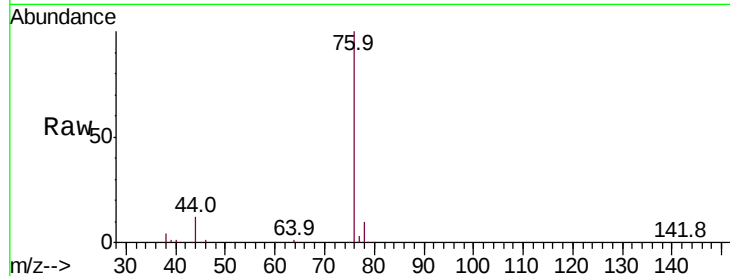
#17
Carbon Disulfide
Concen: 17.247 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion: 76 Resp: 203009
Ion Ratio Lower Upper
76 100
78 10.1 7.3 10.9

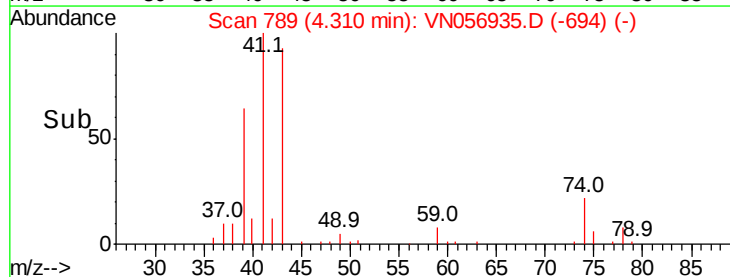
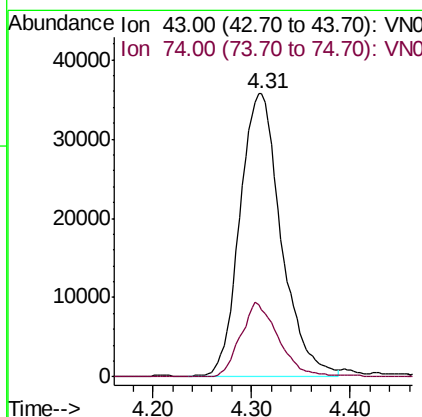
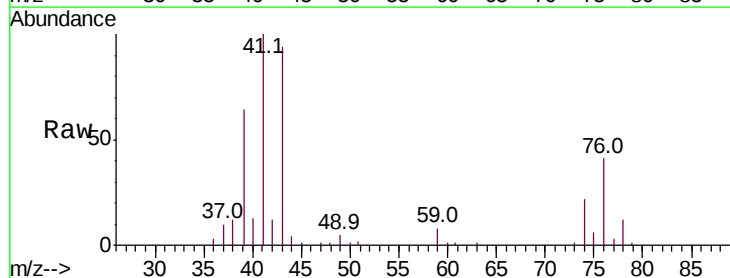
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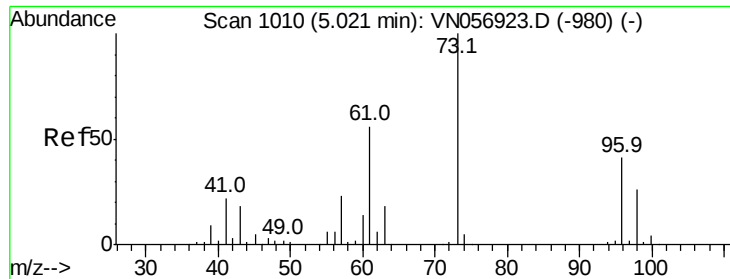
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#18
Methyl Acetate
Concen: 18.006 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion: 43 Resp: 103739
Ion Ratio Lower Upper
43 100
74 24.2 19.4 29.0





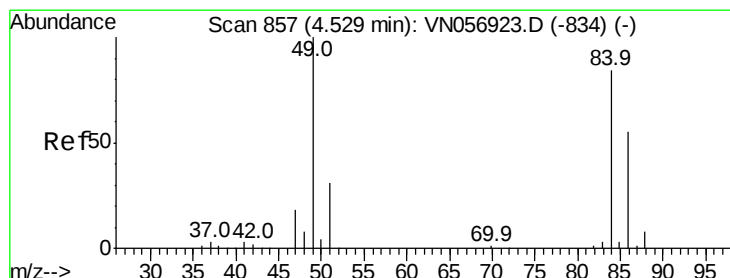
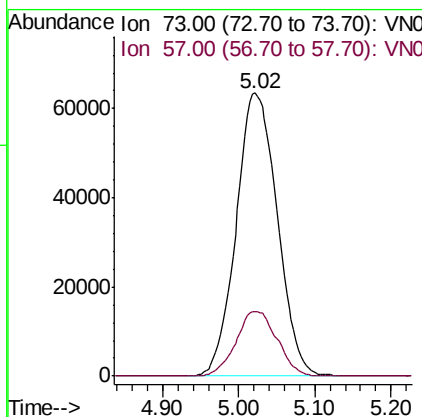
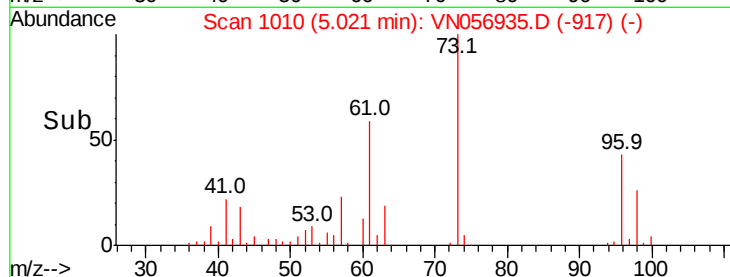
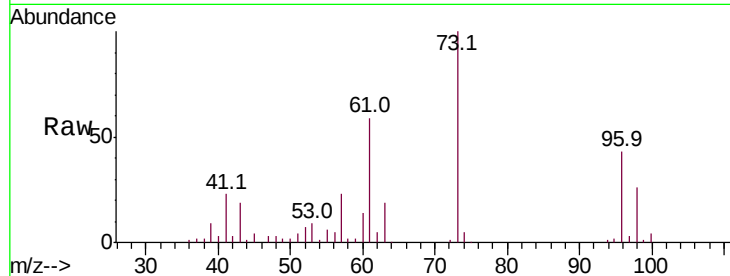
#19
Methvl tert-butvl Ether
Concen: 18.538 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion: 73 Resp: 238220
Ion Ratio Lower Upper
73 100
57 22.9 18.2 27.4

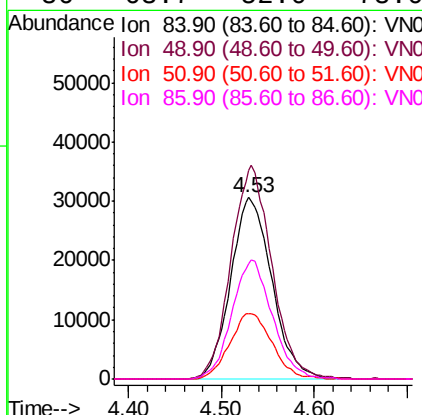
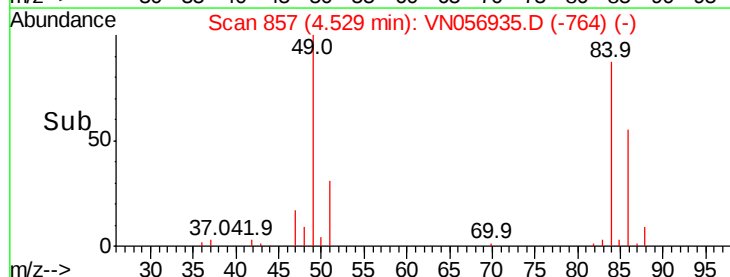
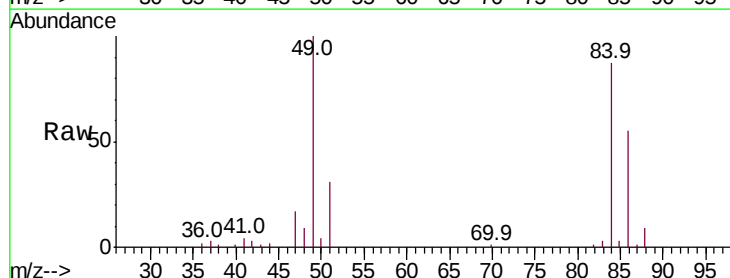
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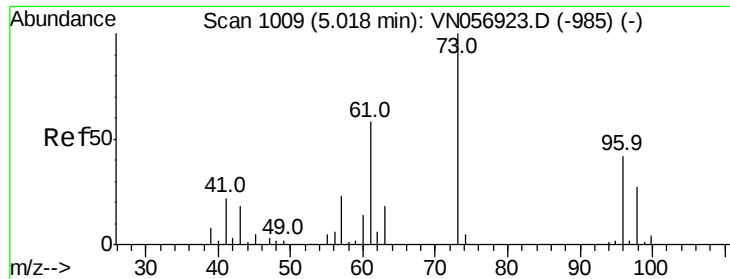
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#20
Methylene Chloride
Concen: 18.102 ug/l
RT: 4.53 min Scan# 857
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion: 84 Resp: 94335
Ion Ratio Lower Upper
84 100
49 115.3 95.0 142.6
51 36.0 29.8 44.8
86 63.7 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 18.377 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion: 96 Resp: 85942

Ion Ratio Lower Upper

96 100

61 138.3 109.9 164.9

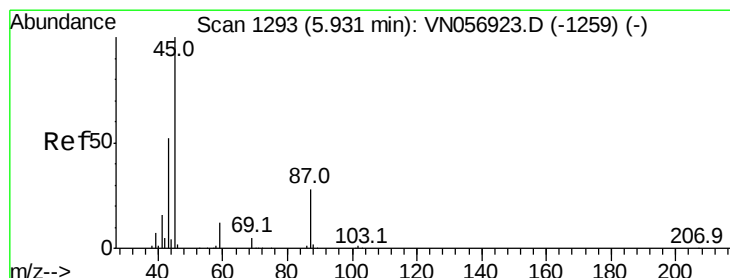
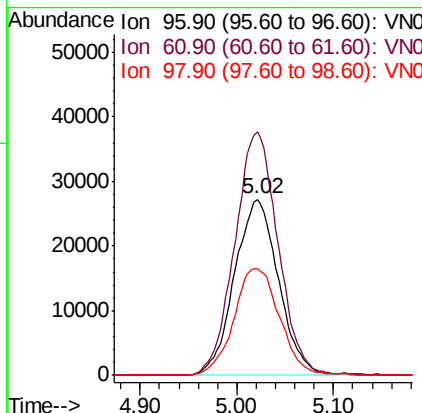
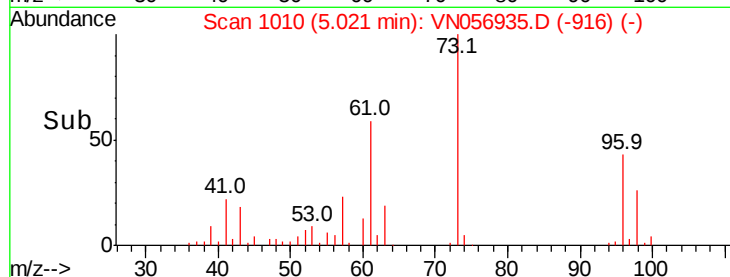
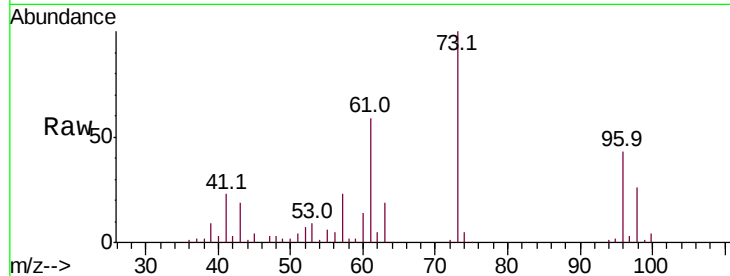
98 60.4 51.0 76.4

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#22

Diisopropyl ether

Concen: 19.136 ug/l

RT: 5.93 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Tgt Ion: 45 Resp: 276341

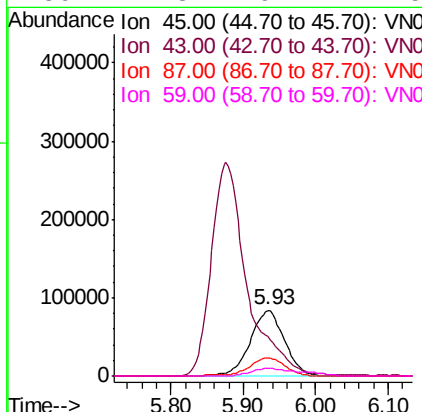
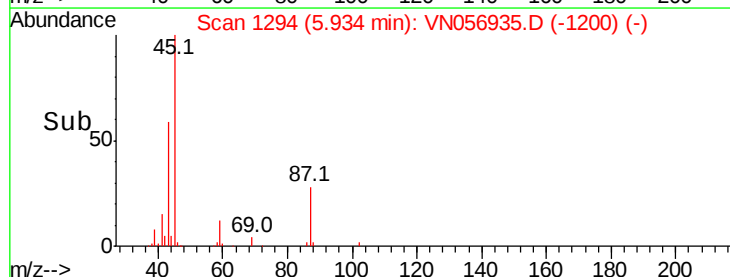
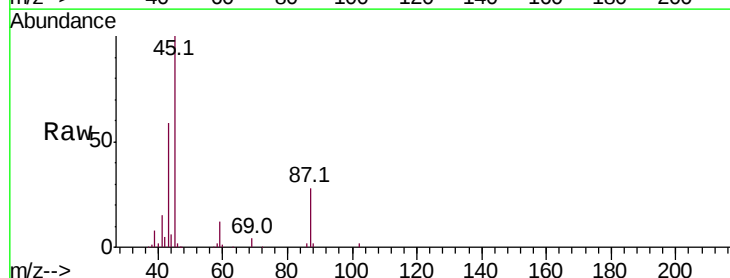
Ion Ratio Lower Upper

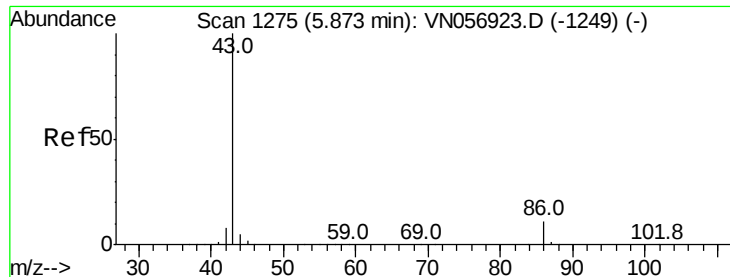
45 100

43 57.7 44.7 67.1

87 27.8 23.1 34.7

59 11.3 9.7 14.5





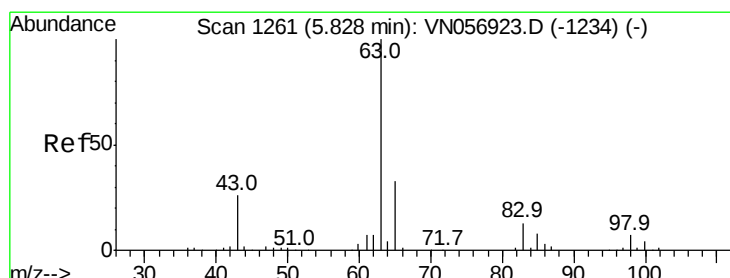
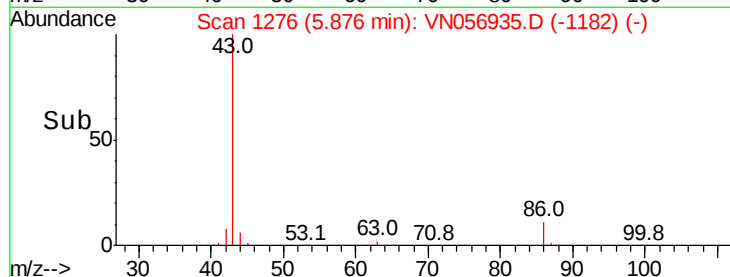
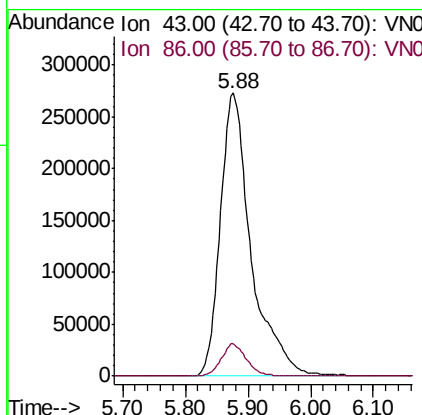
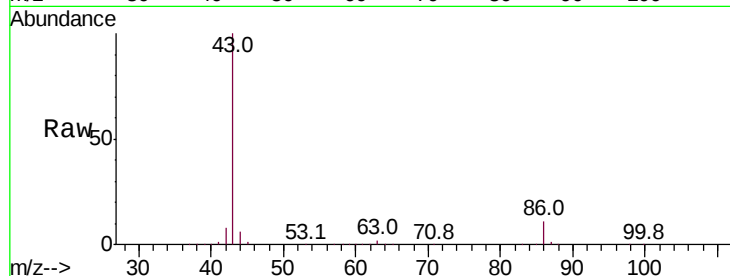
#23
 Vinyl Acetate
 Concen: 93.805 ug/l
 RT: 5.88 min Scan# 1276
 Delta R.T. 0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
86	11.3	8.6	13.0

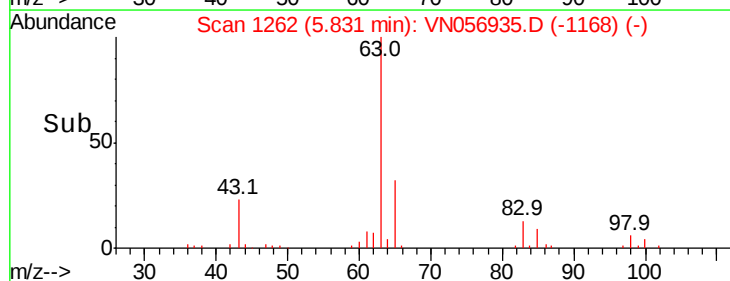
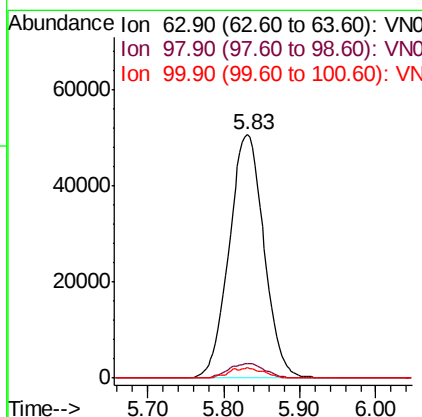
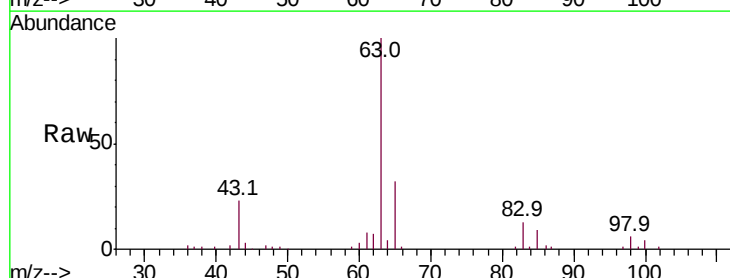
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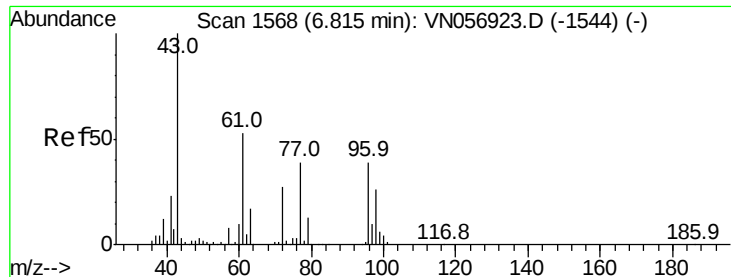
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 18.954 ug/l
 RT: 5.83 min Scan# 1262
 Delta R.T. 0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
63	100		
98	5.8	3.4	10.1
100	4.2	2.1	6.3





#25

2-Butanone

Concen: 89.600 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion: 43 Resp: 226963

Ion Ratio Lower Upper

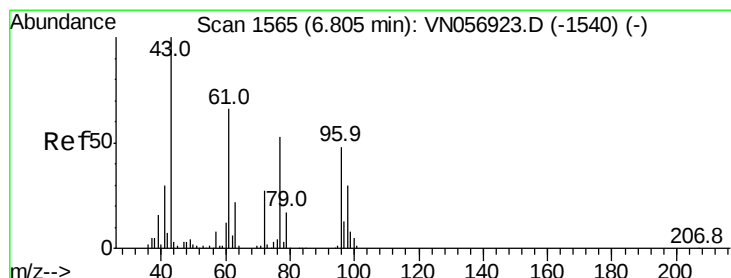
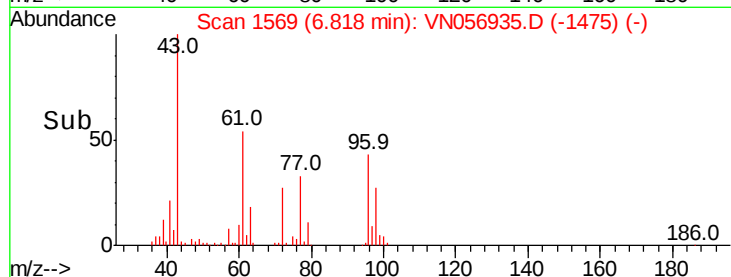
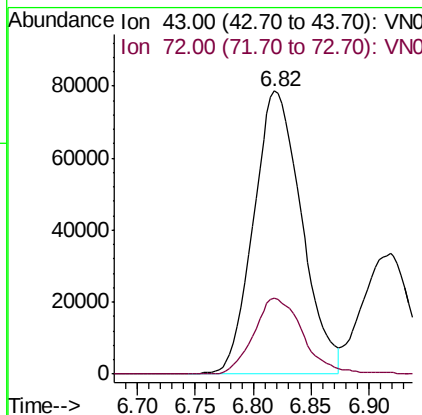
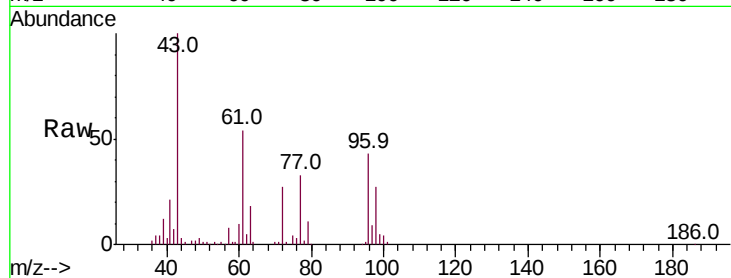
43 100

72 26.9 21.9 32.9

Manual Integrations
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7/26/2019 3:38:00 PM



#26

2,2-Dichloropropane

Concen: 15.706 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.00 min

Lab File: VN056935.D

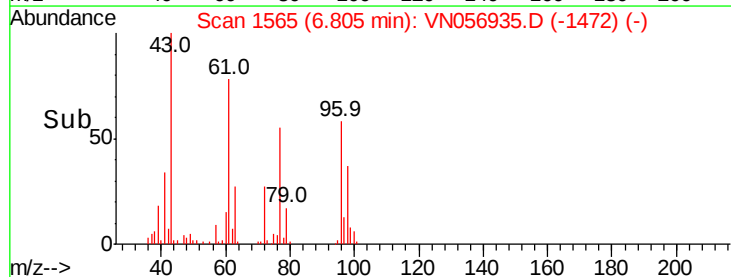
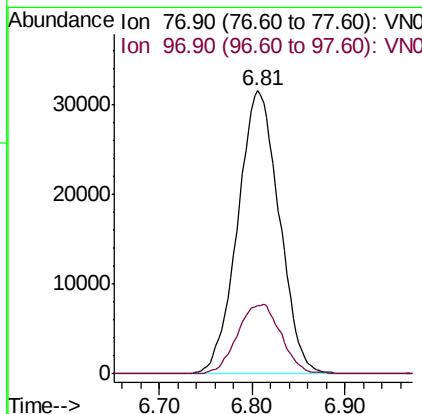
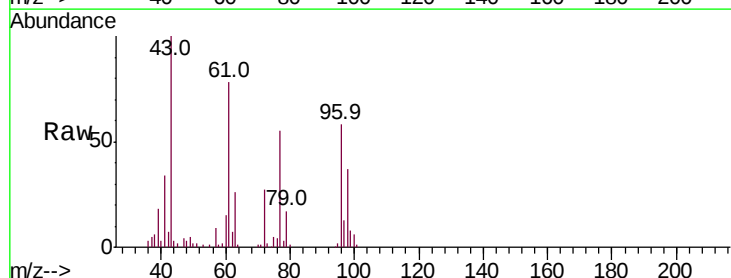
Acq: 25 Jul 2019 21:37

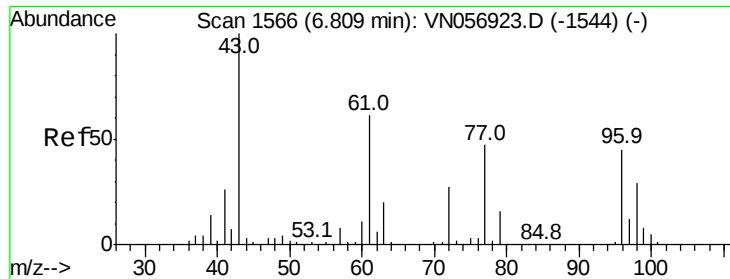
Tgt Ion: 77 Resp: 97794

Ion Ratio Lower Upper

77 100

97 25.8 12.3 36.8





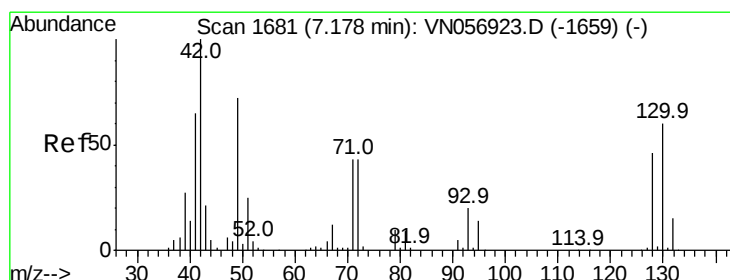
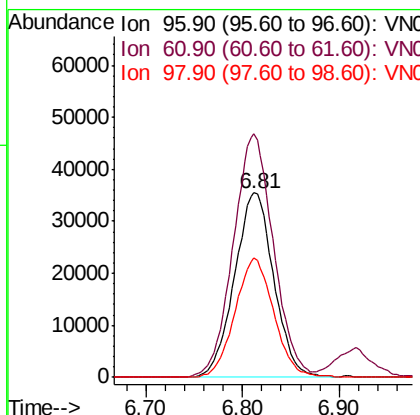
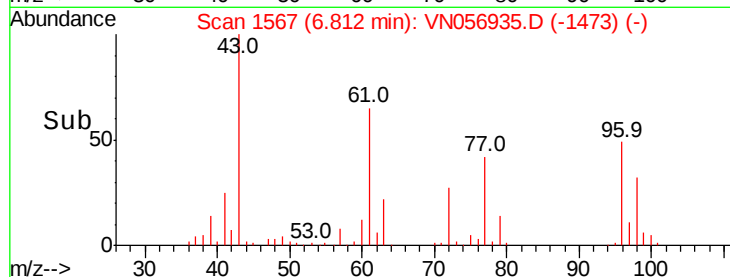
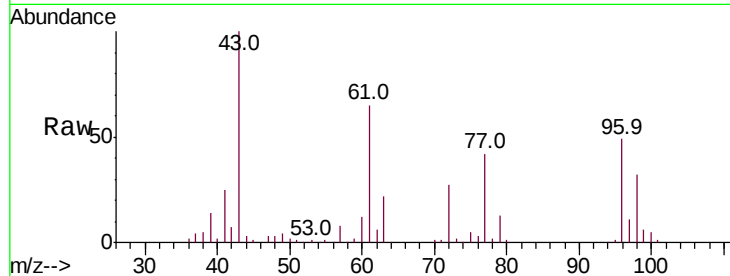
#27
 cis-1,2-Dichloroethene
 Concen: 18.761 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	100119		
61	134.7	0.0	278.8	
98	63.7	0.0	130.0	

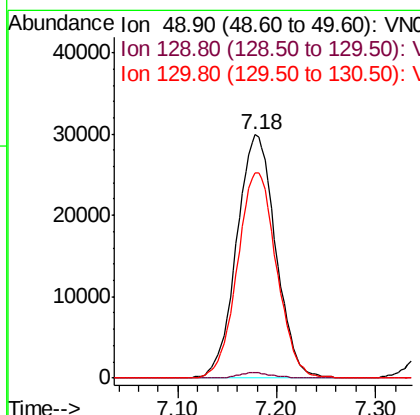
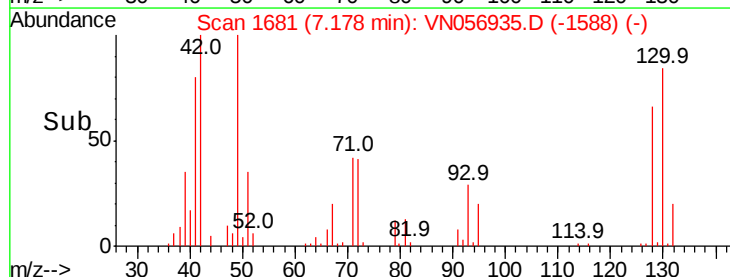
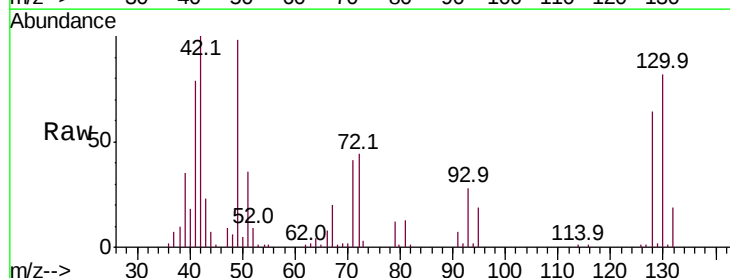
Manual Integrations
 APPROVED

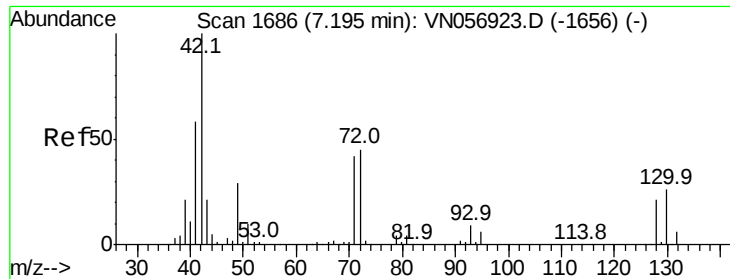
MMDadoda
 7/26/2019 3:38:00 PM



#28
 Bromochloromethane
 Concen: 20.912 ug/l
 RT: 7.18 min Scan# 1681
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	81880		
129	1.8	0.0	4.4	
130	84.8	67.3	100.9	





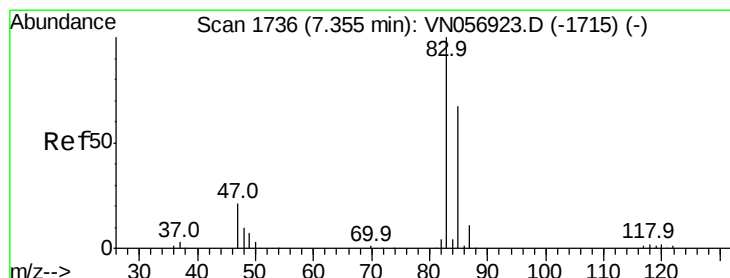
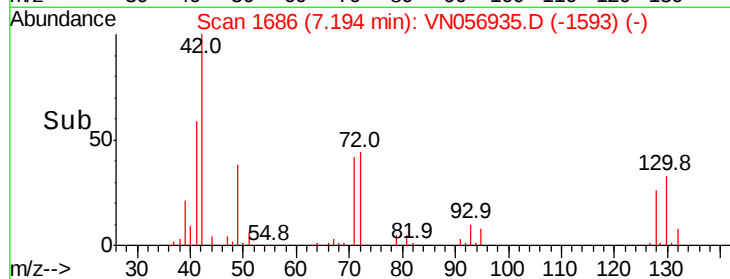
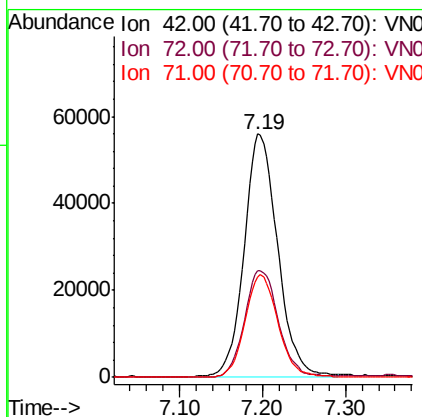
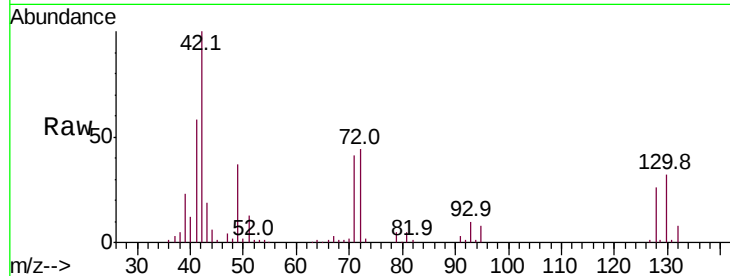
#29
Tetrahydrofuran
Concen: 94.991 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampled :
VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.3	35.5	53.3
71	41.2	33.0	49.6

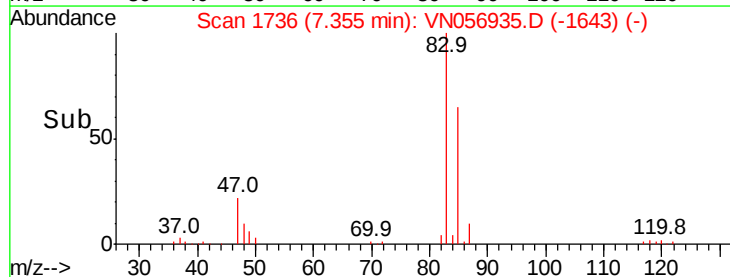
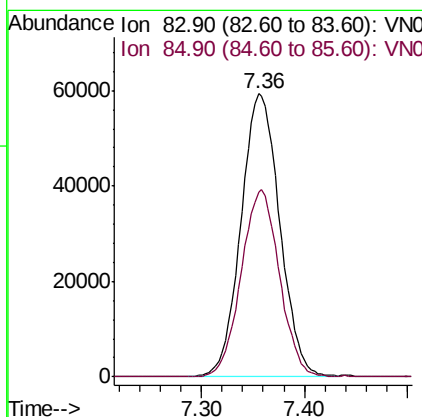
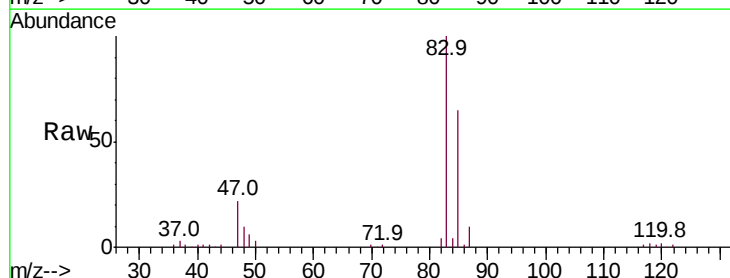
Manual Integrations
APPROVED

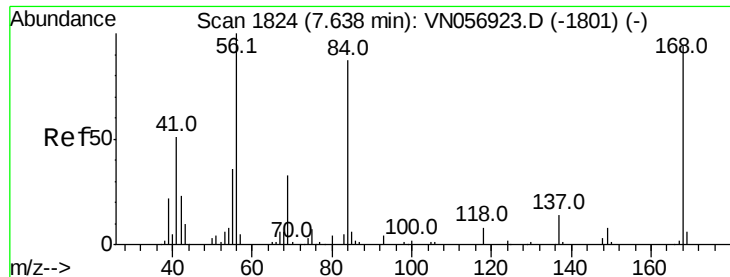
MMDadoda
7/26/2019 3:38:00 PM



#30
Chloroform
Concen: 17.720 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	53.5	80.3





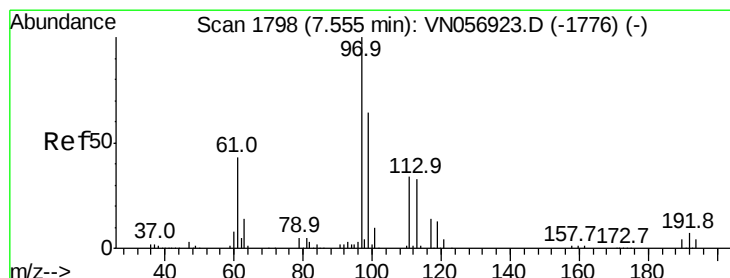
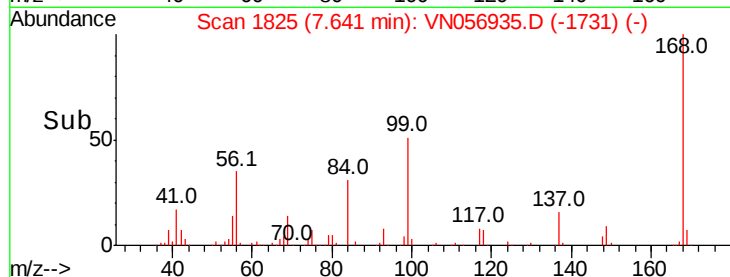
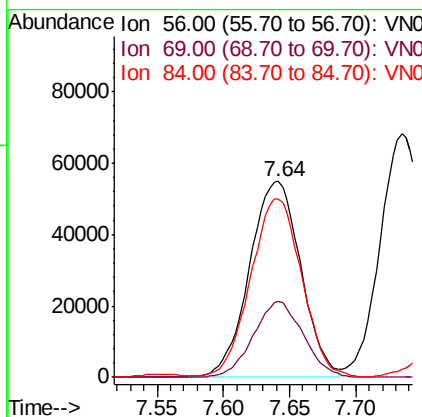
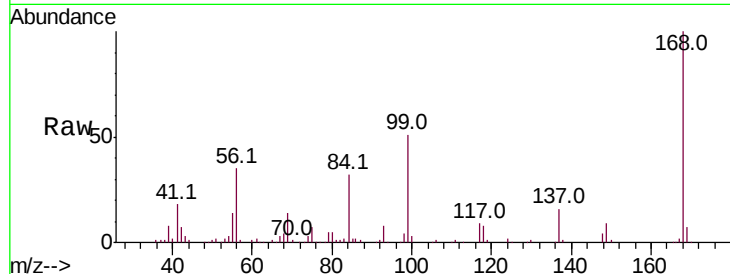
#31
Cyclohexane
Concen: 17.998 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion	56	Resp	148600
Ion Ratio	56	100	
Lower	69	38.7	26.3
Upper	84	90.2	69.6
			104.4

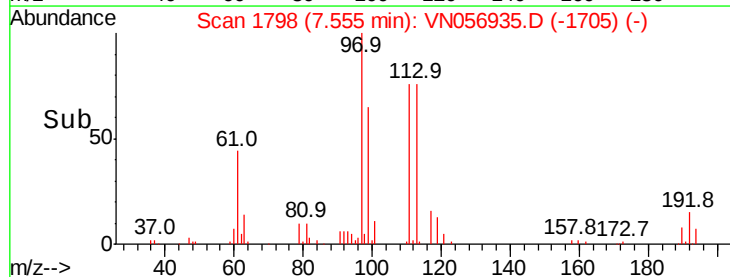
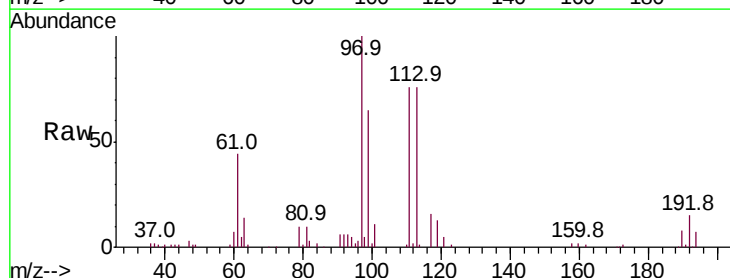
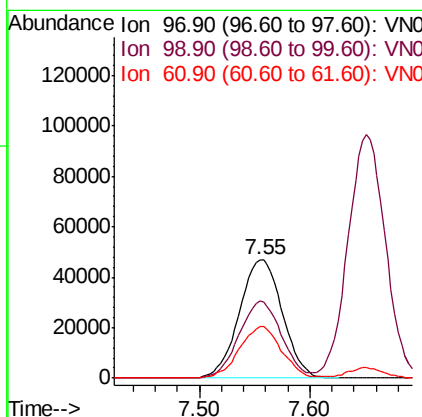
Manual Integrations
APPROVED

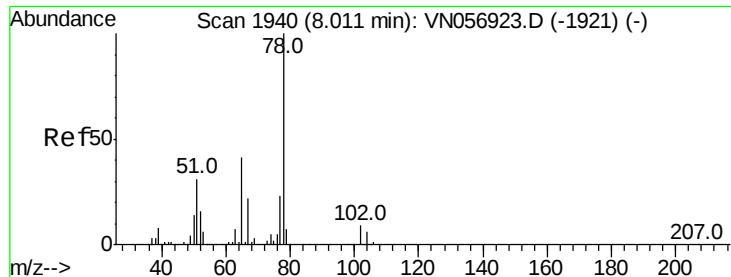
MMDadoda
7/26/2019 3:38:00 PM



#32
1,1,1-Trichloroethane
Concen: 18.159 ug/l
RT: 7.55 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	97	Resp	127068
Ion Ratio	97	100	
Lower	99	63.8	51.6
Upper	61	42.5	33.8
			50.6





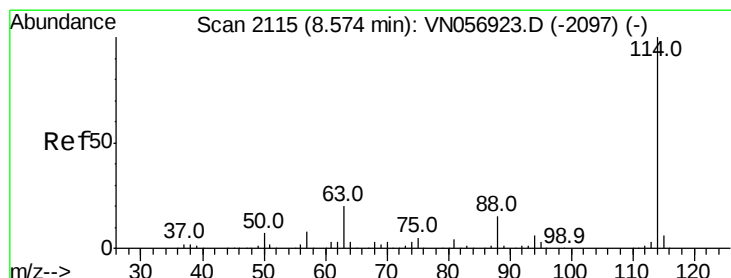
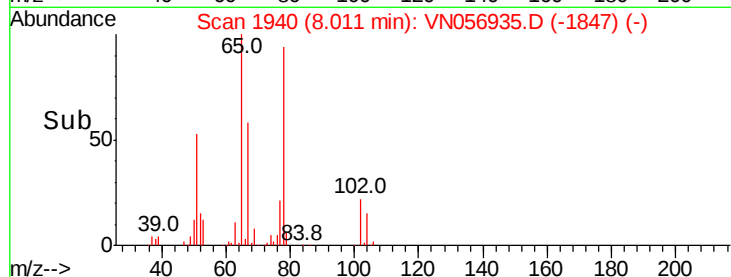
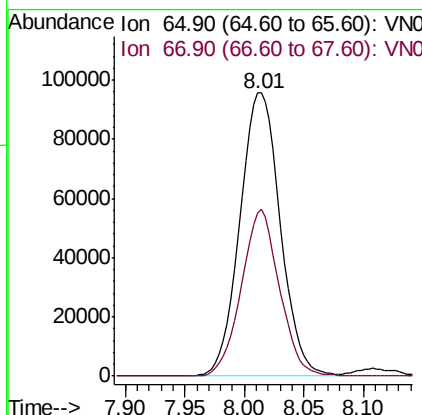
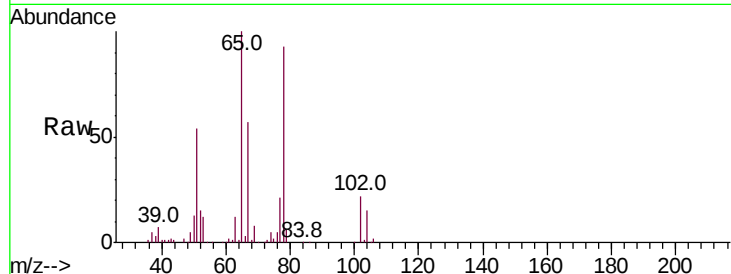
#33
 1,2-Dichloroethane-d4
 Concen: 46.713 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
65	100		
67	55.4	0.0	109.2

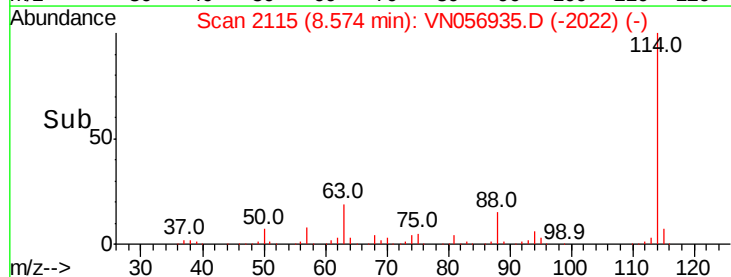
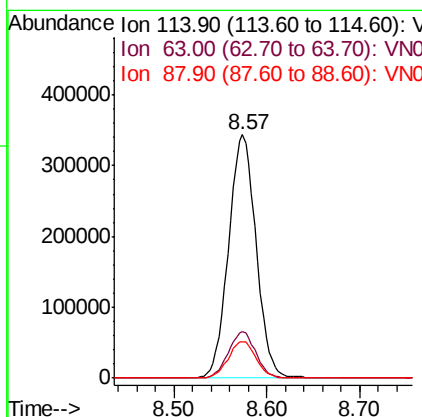
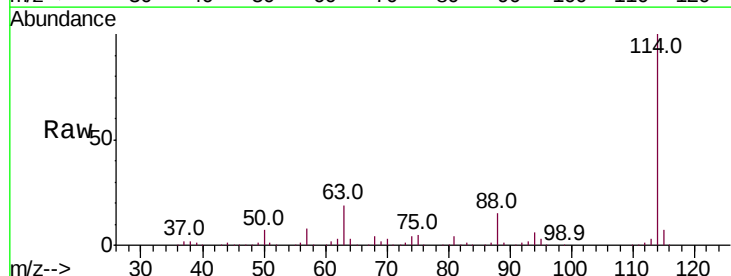
Manual Integrations
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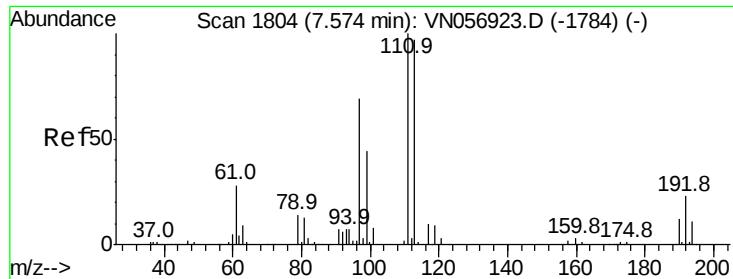
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	39.4
88	15.1	0.0	30.4





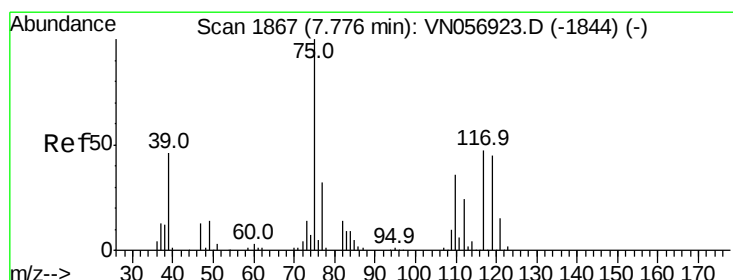
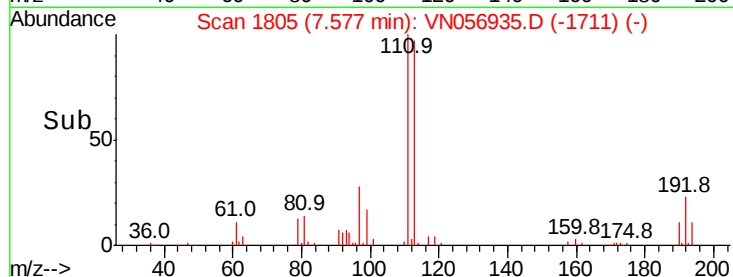
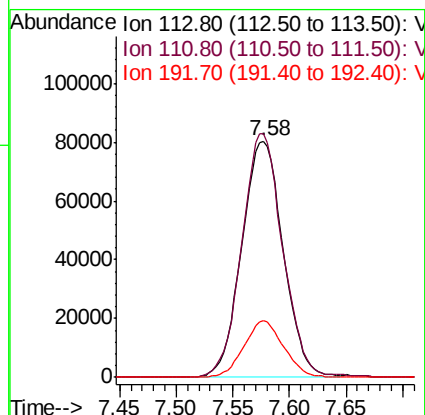
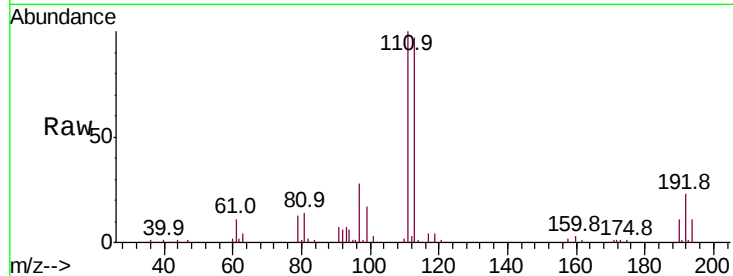
#35
Dibromofluoromethane
Concen: 45.359 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	204778		
111	102.3	82.2	123.2	
192	22.9	18.3	27.5	

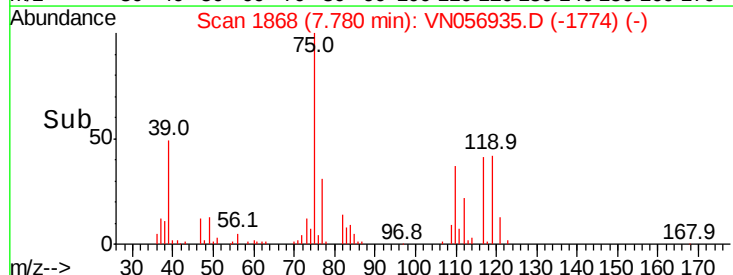
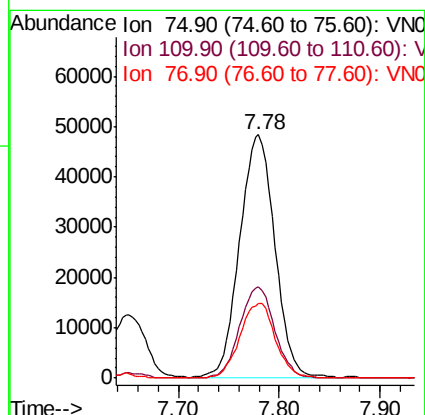
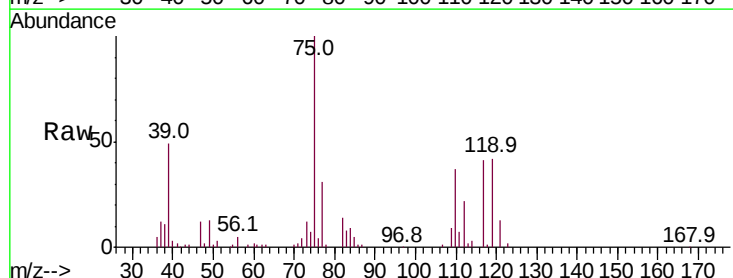
Manual Integrations
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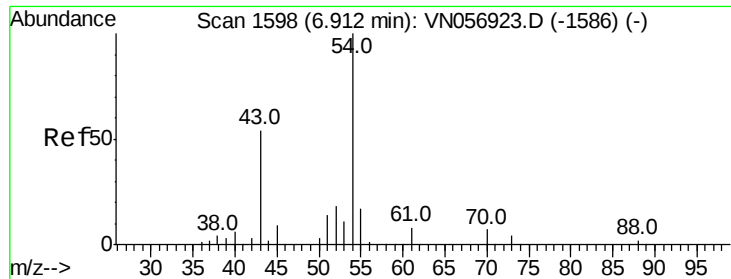
MMDadoda
7/26/2019 3:38:00 PM



#36
1,1-Dichloropropene
Concen: 18.005 ug/l
RT: 7.78 min Scan# 1868
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	116478		
110	37.2	18.9	56.9	
77	31.4	25.4	38.0	





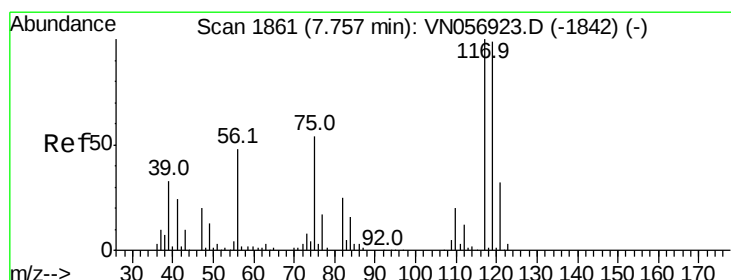
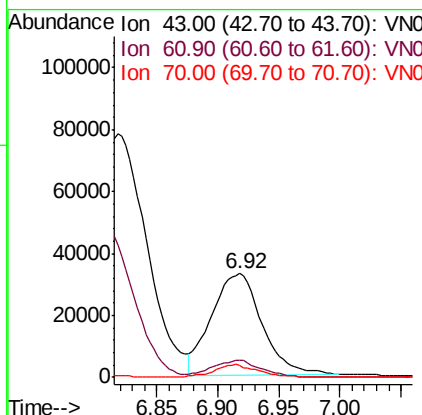
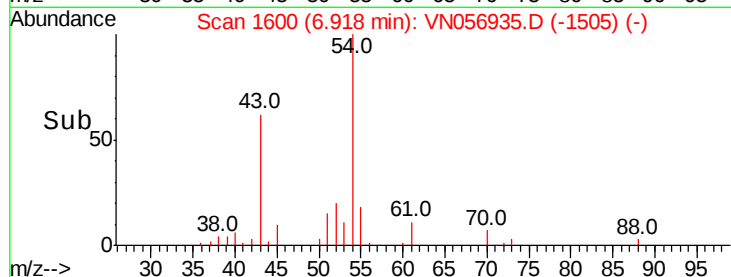
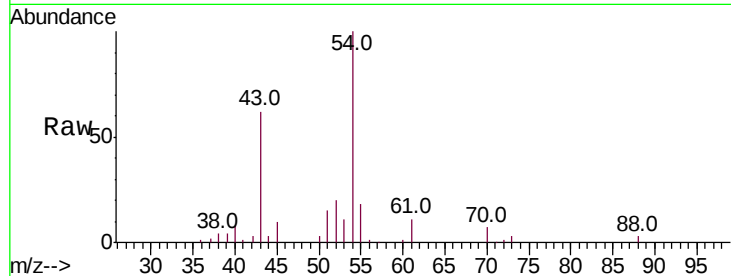
#37
Ethyl Acetate
Concen: 18.121 ug/l
RT: 6.92 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampled :
VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	16.4	11.9	17.9
70	11.0	8.8	13.2

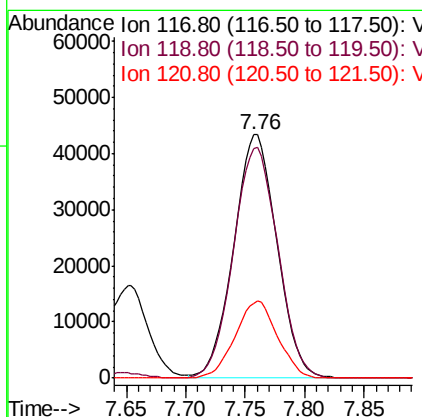
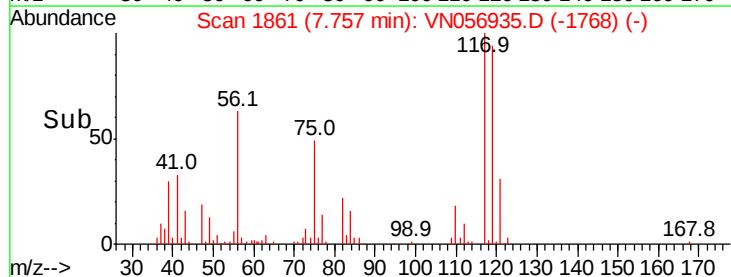
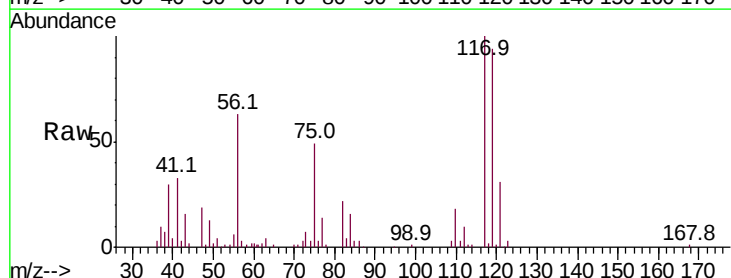
Manual Integrations
APPROVED

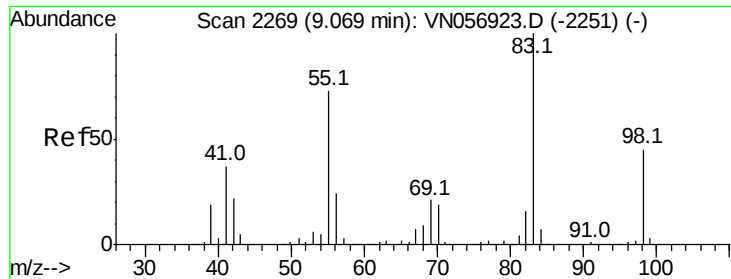
MMDadoda
7/26/2019 3:38:00 PM



#38
Carbon Tetrachloride
Concen: 17.782 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.1	79.0	118.6
121	30.7	25.1	37.7





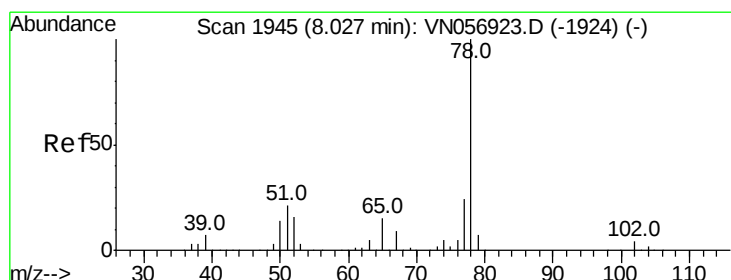
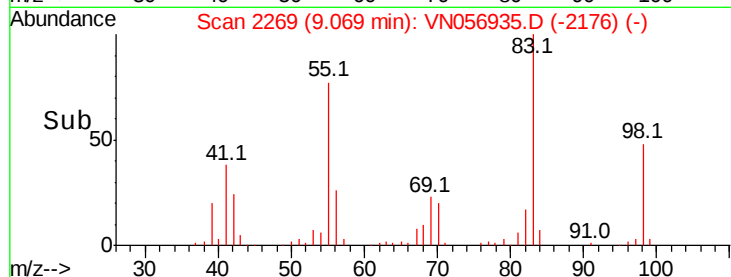
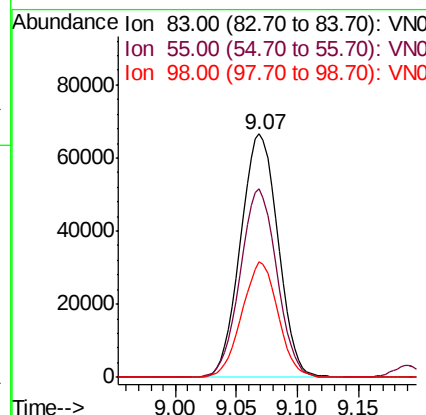
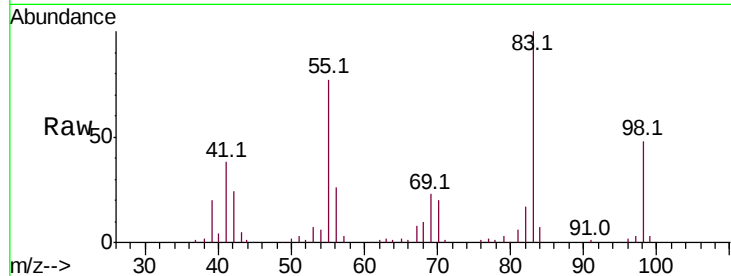
#39
Methvlcvclohexane
Concen: 17.971 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
83	100		
55	77.4	58.8	88.2
98	47.6	35.8	53.6

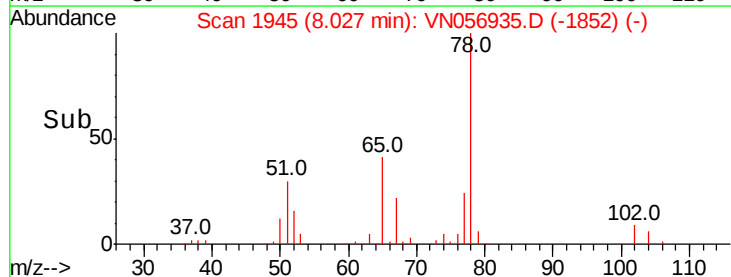
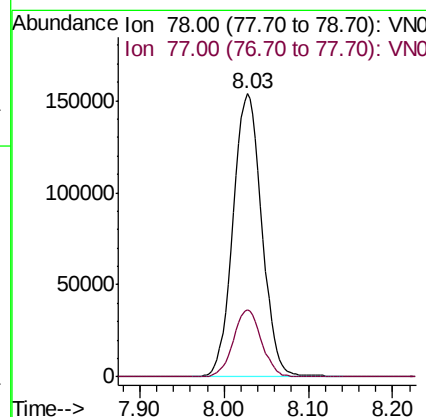
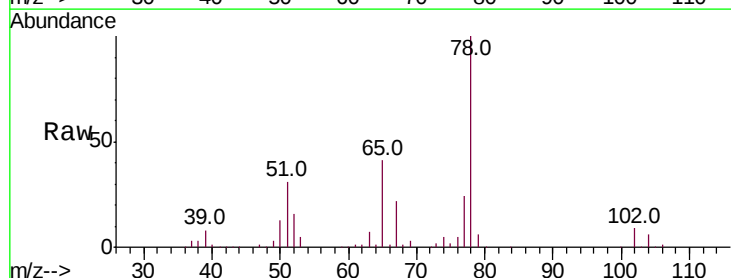
Manual Integrations
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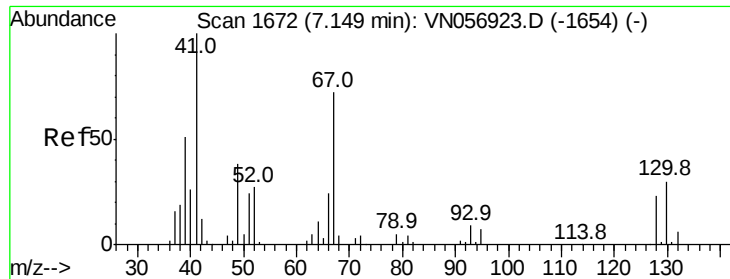
MMDadoda
7/26/2019 3:38:00 PM



#40
Benzene
Concen: 18.131 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.5	29.3





#41

Methacrylonitrile

Concen: 15.607 ug/l m

RT: 7.16 min Scan# 1675

Delta R.T. 0.01 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion: 41 Resp: 35981

Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

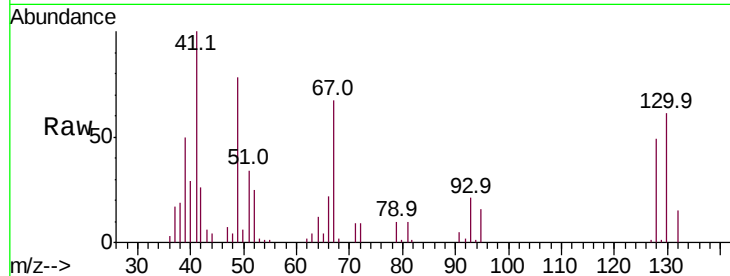
67 0.0 0.0 0.0

52 0.0 0.0 0.0

Manual Integrations
APPROVED

MMDadoda

7/26/2019 3:38:00 PM

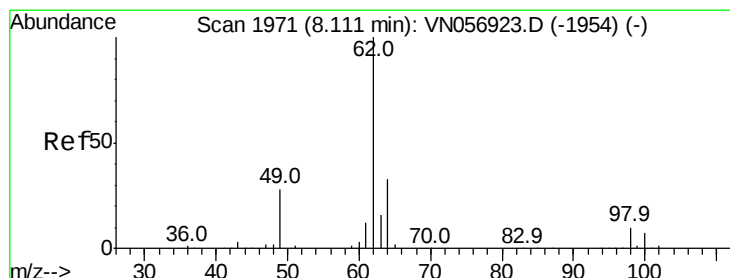
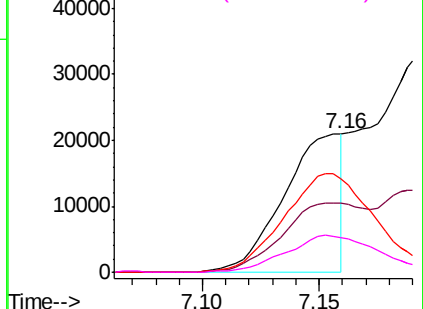
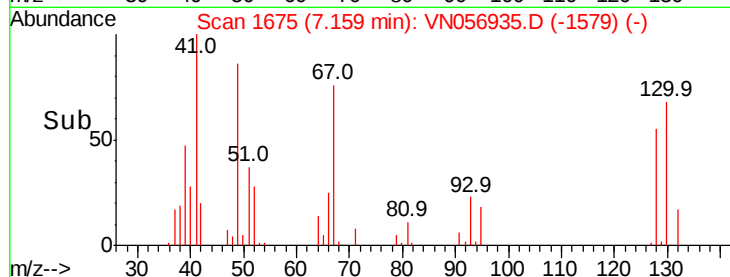


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC



#42

1,2-Dichloroethane

Concen: 17.969 ug/l

RT: 8.11 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VN056935.D

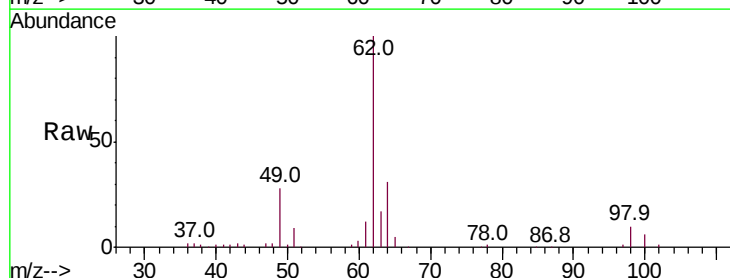
Acq: 25 Jul 2019 21:37

Tgt Ion: 62 Resp: 111957

Ion Ratio Lower Upper

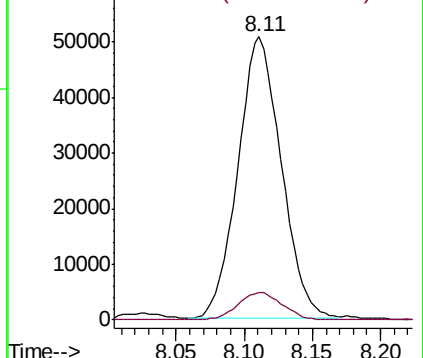
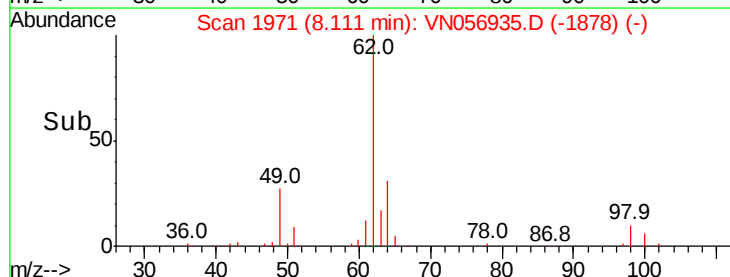
62 100

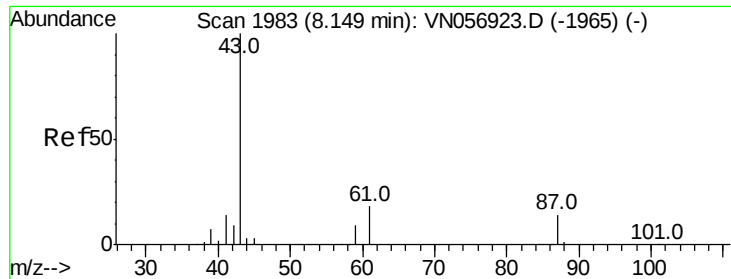
98 9.9 0.0 20.8



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 97.90 (97.60 to 98.60): VNC





#43

Isopropyl Acetate

Concen: 17.904 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

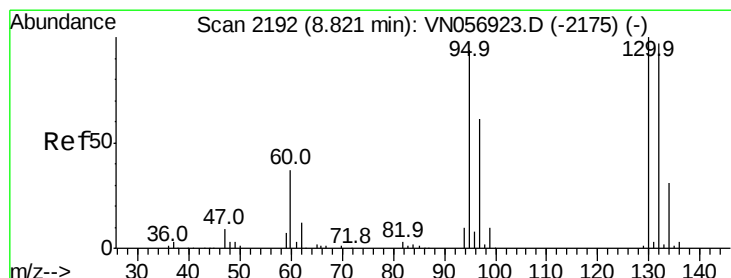
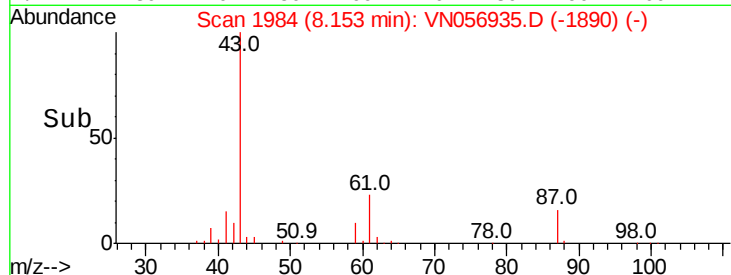
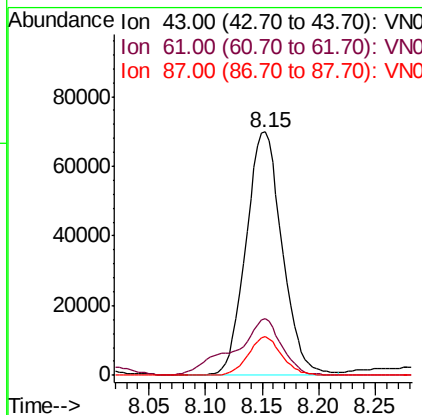
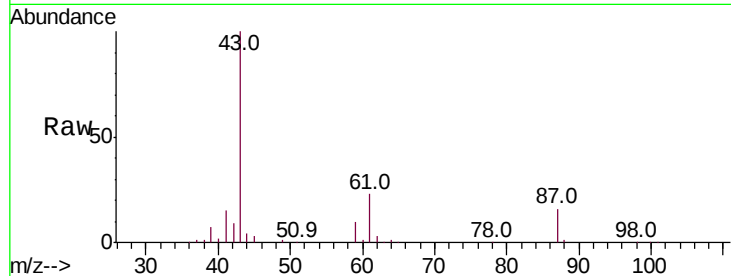
ClientSampleId :

VN0726WBSD01

Tot Ion:	43	Resp:	154409
Ion	Ratio	Lower	Upper
43	100		
61	30.5	23.8	35.6
87	14.9	11.8	17.6

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#44

Trichloroethene

Concen: 17.989 ug/l

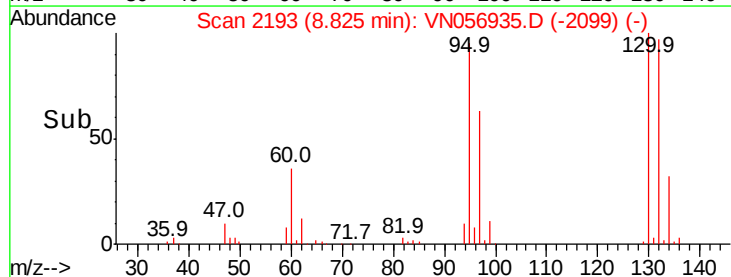
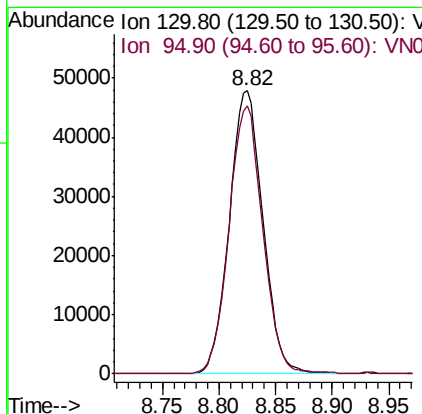
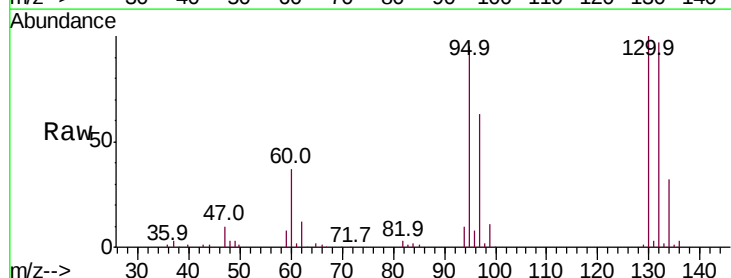
RT: 8.82 min Scan# 2193

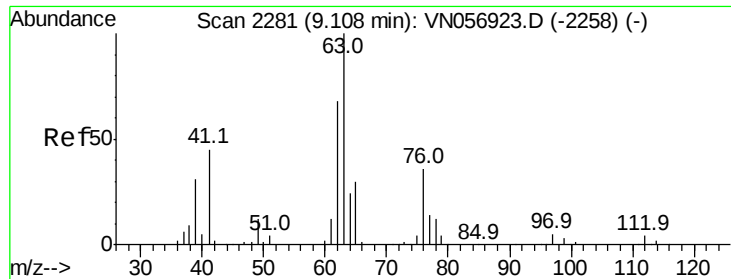
Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Tgt Ion:	130	Resp:	98997
Ion	Ratio	Lower	Upper
130	100		
95	94.6	0.0	187.6





#45

1,2-Dichloropropane

Concen: 18.234 ug/l

RT: 9.11 min Scan# 2281

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion: 63 Resp: 98852

Ion Ratio Lower Upper

63 100

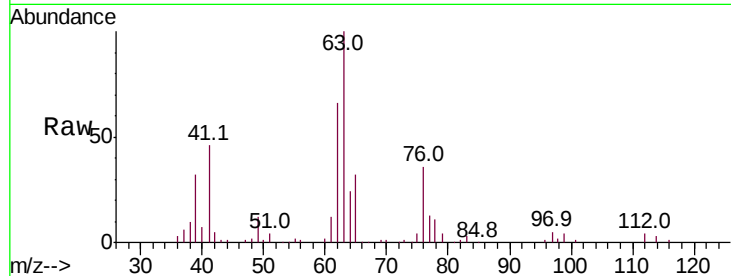
65 32.0 24.5 36.7

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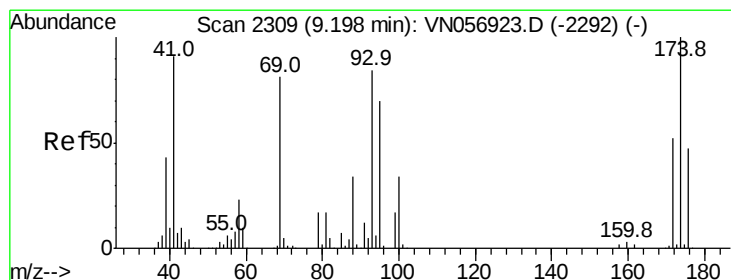
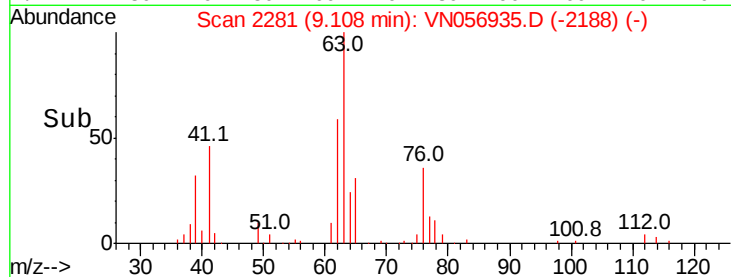
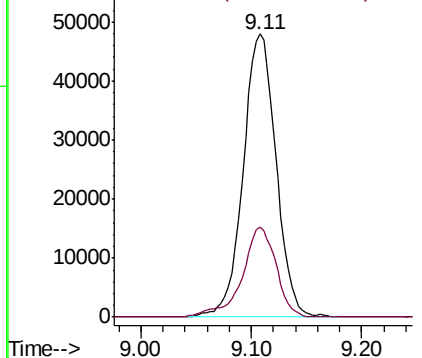
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Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#46

Dibromomethane

Concen: 18.273 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

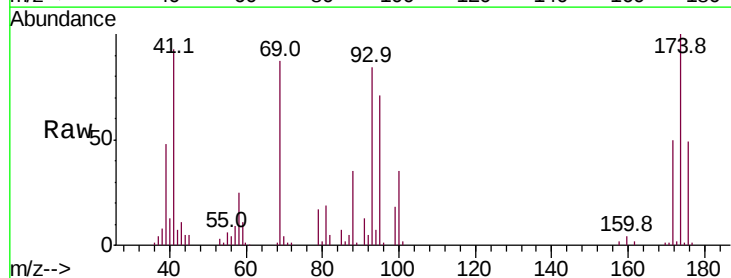
Tgt Ion: 93 Resp: 59720

Ion Ratio Lower Upper

93 100

95 83.8 66.8 100.2

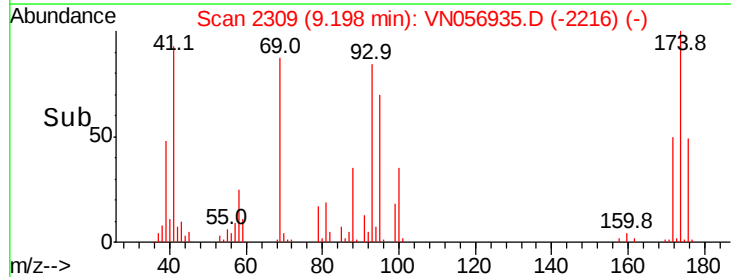
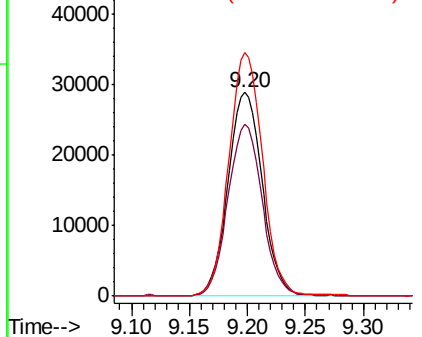
174 116.7 92.9 139.3

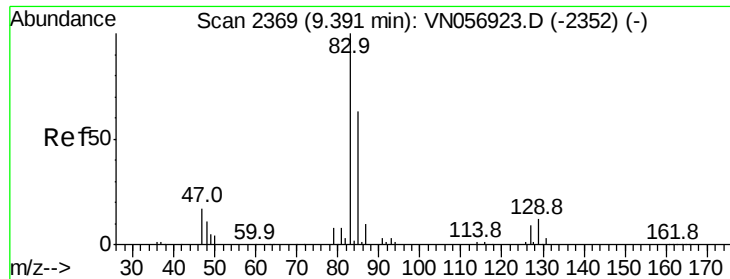


Abundance Ion 92.80 (92.50 to 93.50): VN0

Ion 94.80 (94.50 to 95.50): VN0

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 17.454 ug/l

RT: 9.39 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

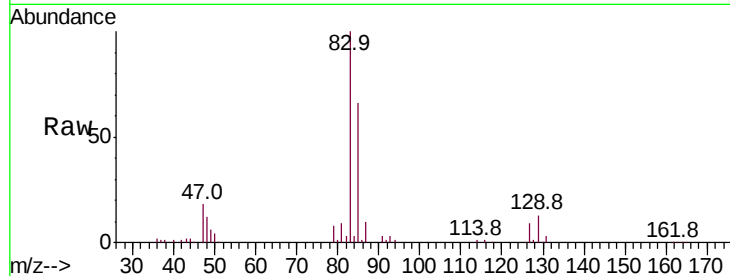
ClientSampleId :

VN0726WBSD01

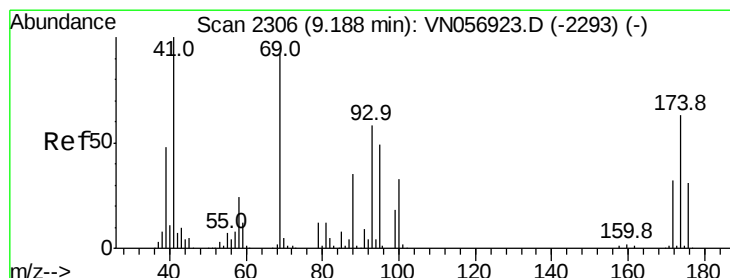
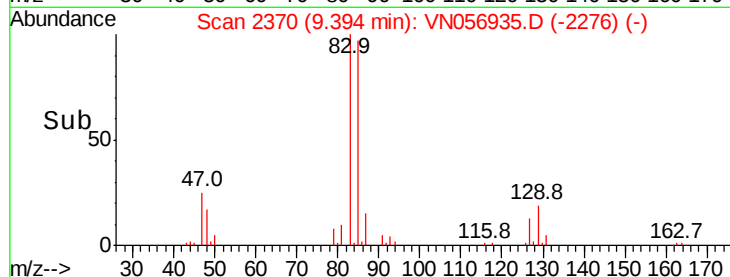
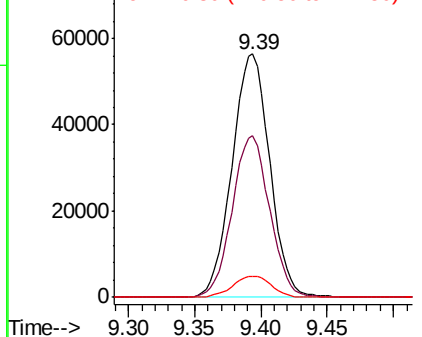
Tot Ion:	83	Resp:	111391
Ion Ratio	Lower	Upper	
83	100		
85	66.2	50.5	75.7
127	8.6	7.4	11.0

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Abundance Ion 82.90 (82.60 to 83.60): VN056935.D (-2276) (-)



#48

Methyl methacrylate

Concen: 18.471 ug/l

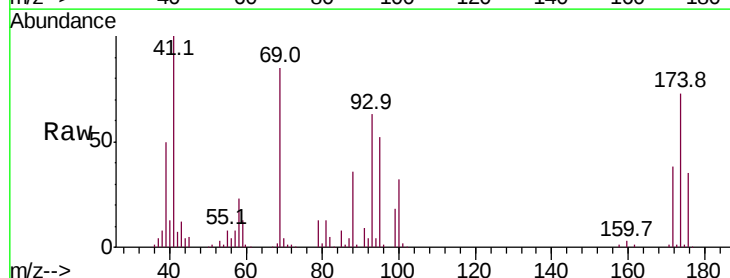
RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

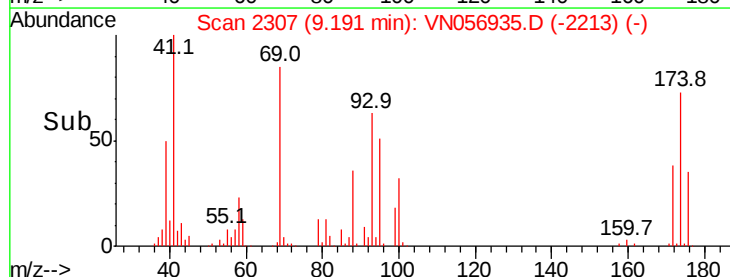
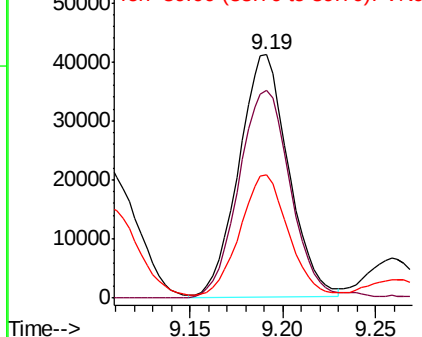
Lab File: VN056935.D

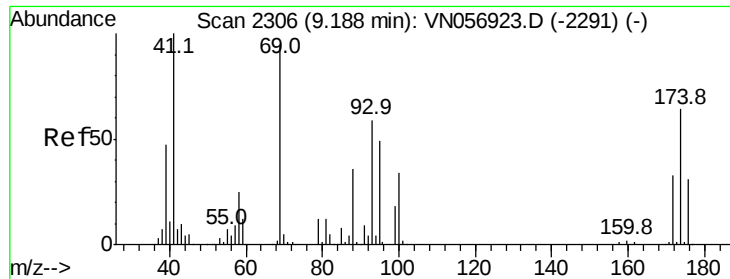
Acq: 25 Jul 2019 21:37

Tgt Ion:	41	Resp:	76469
Ion Ratio	Lower	Upper	
41	100		
69	89.7	73.4	110.0
39	47.8	40.1	60.1



Abundance Ion 41.00 (40.70 to 41.70): VN056935.D (-2213) (-)





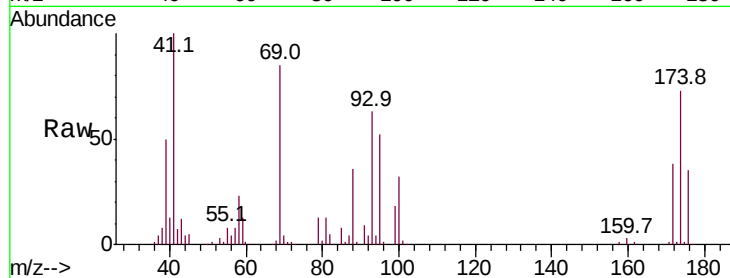
#49
 1,4-Dioxane
 Concen: 373.553 ug/l
 RT: 9.19 min Scan# 2307
 Delta R.T. 0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

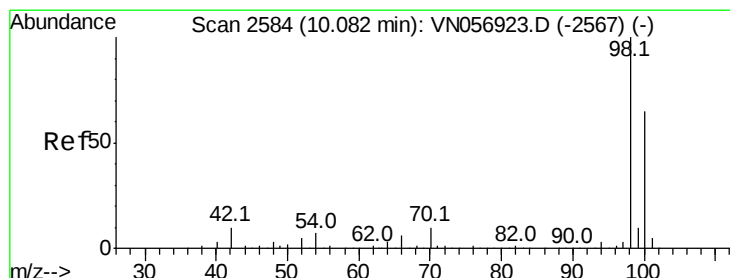
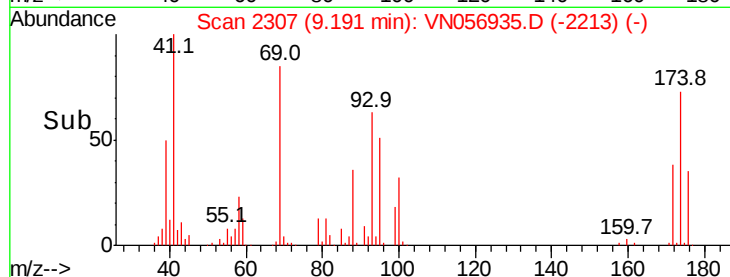
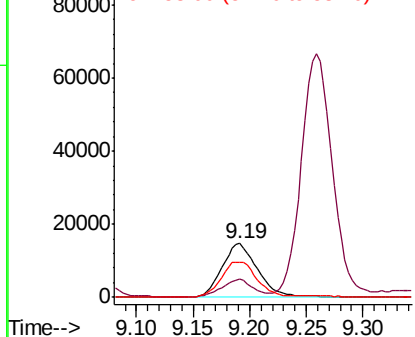
Tot Ion	88	Resp	32383
Ion	Ratio	Lower	Upper
88	100		
43	30.5	21.1	31.7
58	65.6	52.5	78.7

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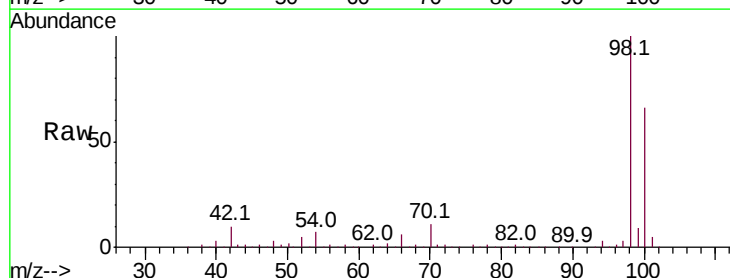


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

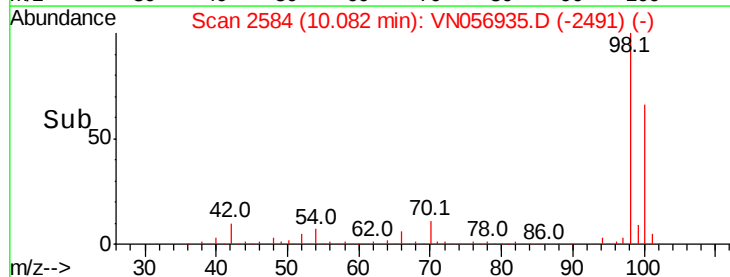
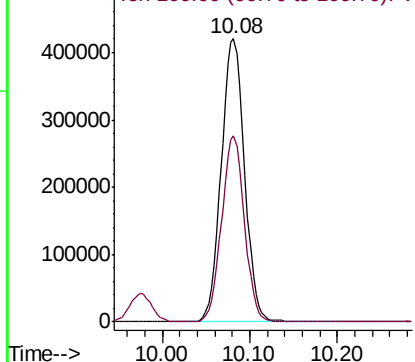


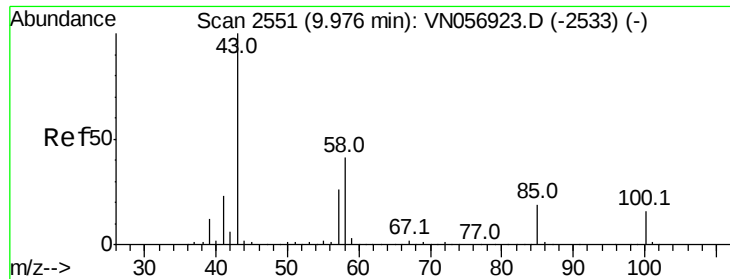
#50
 Toluene-d8
 Concen: 45.280 ug/l
 RT: 10.08 min Scan# 2584
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion	98	Resp	776217
Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.4	77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 92.383 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion: 43 Resp: 473703

Ion Ratio Lower Upper

43 100

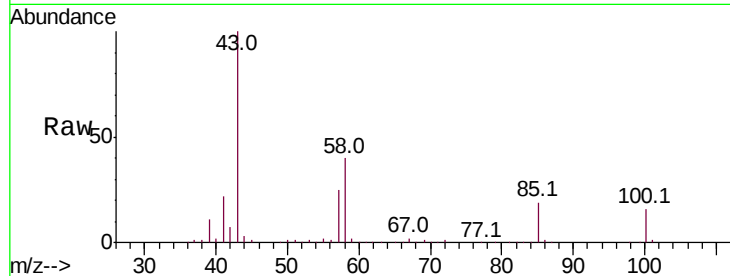
58 40.3 32.8 49.2

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.98

250000

200000

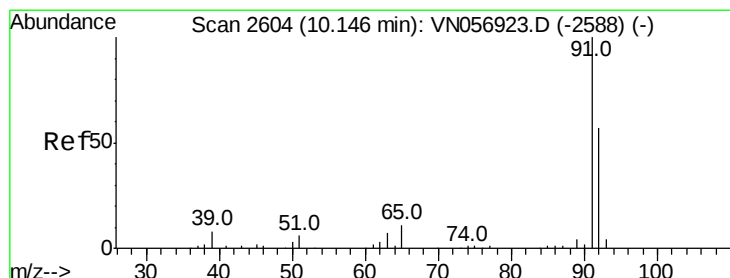
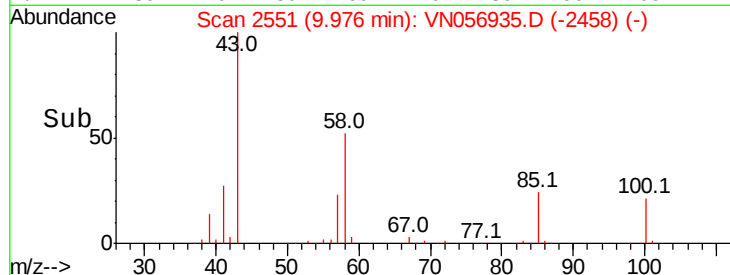
150000

100000

50000

0

Time-->



#52

Toluene

Concen: 18.570 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. -0.00 min

Lab File: VN056935.D

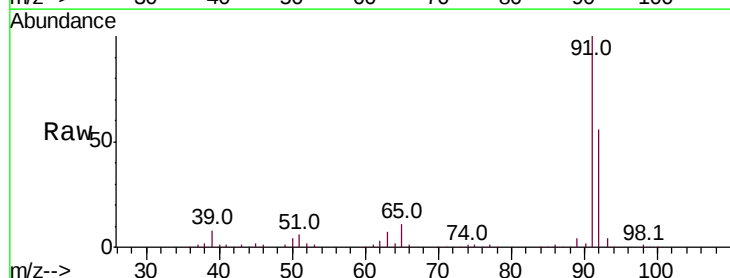
Acq: 25 Jul 2019 21:37

Tgt Ion: 92 Resp: 224674

Ion Ratio Lower Upper

92 100

91 173.7 139.8 209.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0

10.15

250000

200000

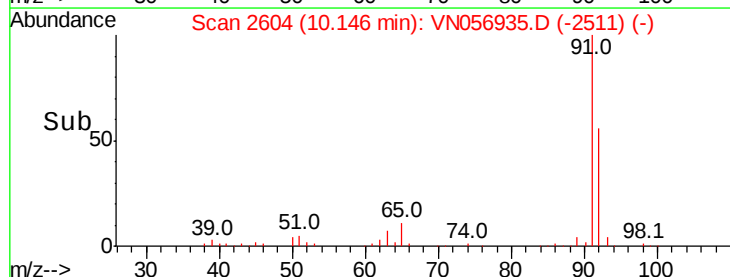
150000

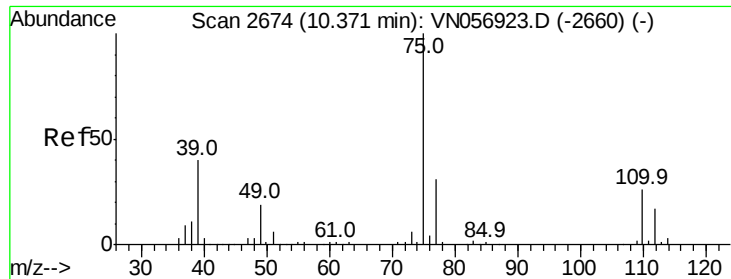
100000

50000

0

Time-->





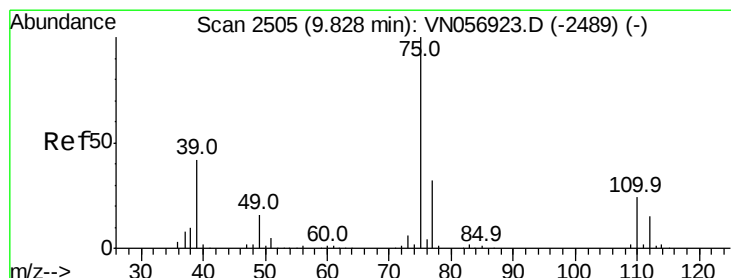
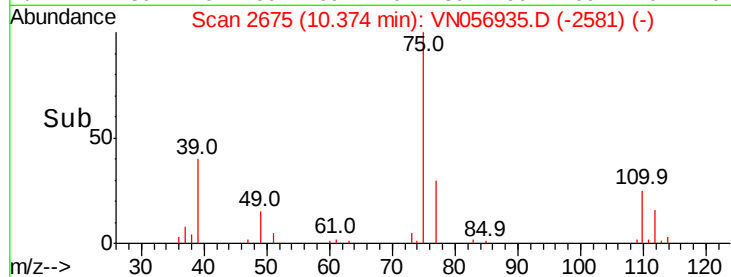
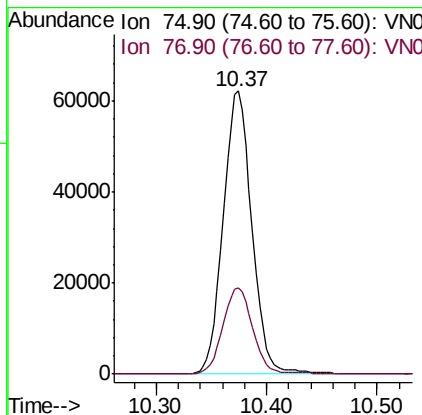
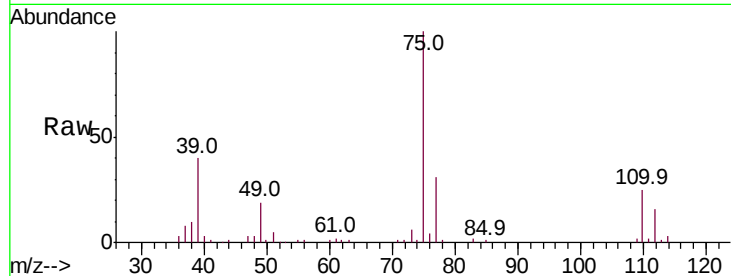
#53
 t-1,3-Dichloropropene
 Concen: 17.421 ug/l
 RT: 10.37 min Scan# 2675
 Delta R.T. 0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampled :
 VN0726WBSD01

Tot Ion: 75 Resp: 112096
 Ion Ratio Lower Upper
 75 100
 77 30.5 25.0 37.6

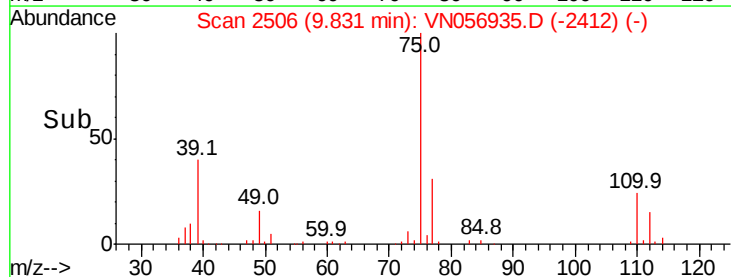
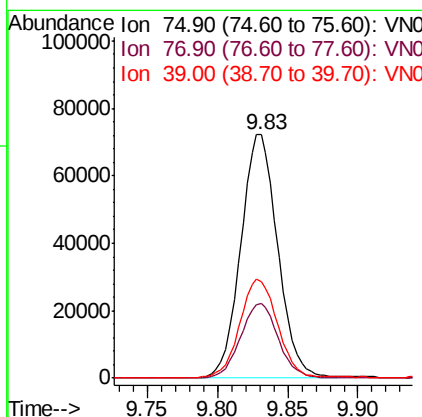
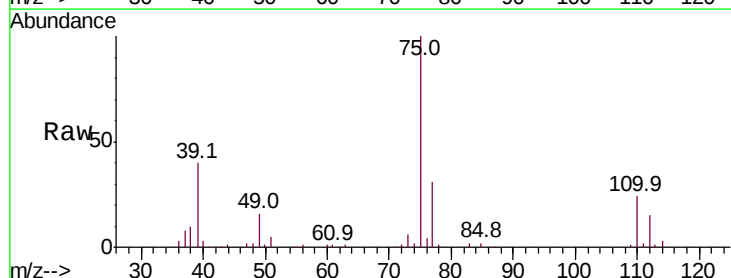
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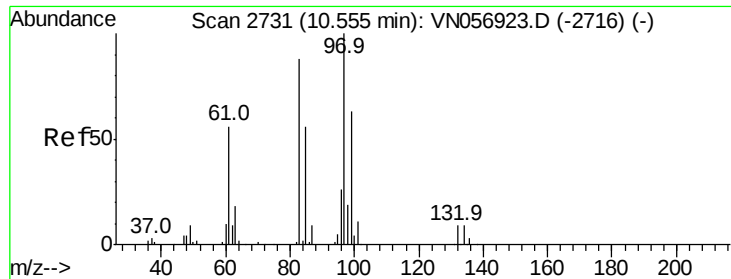
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 7/26/2019 3:38:00 PM



#54
 cis-1,3-Dichloropropene
 Concen: 17.487 ug/l
 RT: 9.83 min Scan# 2506
 Delta R.T. 0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion: 75 Resp: 132464
 Ion Ratio Lower Upper
 75 100
 77 30.6 25.4 38.0
 39 39.5 33.4 50.0





#55

1,1,2-Trichloroethane

Concen: 18.154 ug/l

RT: 10.55 min Scan# 2731

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion: 97 Resp: 88026

Ion Ratio Lower Upper

97 100

83 84.4 70.1 105.1

85 54.0 45.1 67.7

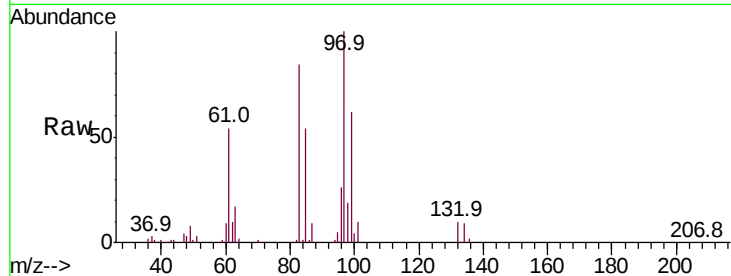
99 61.8 50.6 75.8

Manual Integrations

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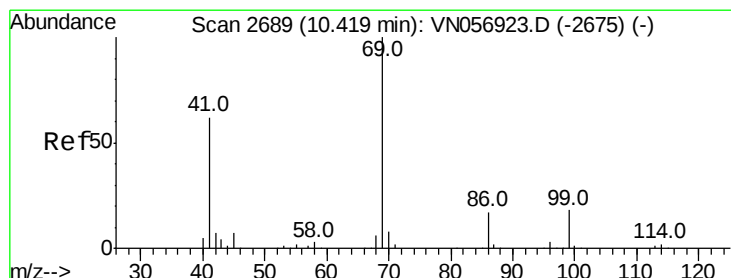
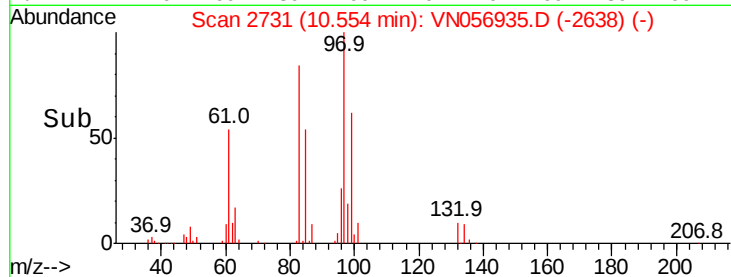
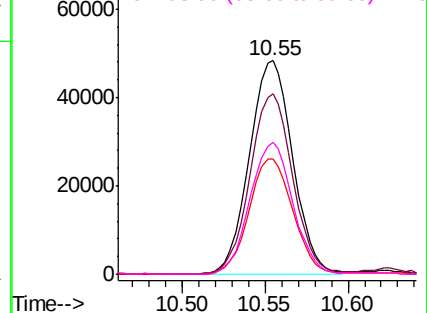


Abundance Ion 96.90 (96.60 to 97.60): VN056935.D (-2638) (-)

Ion 82.90 (82.60 to 83.60): VN056935.D (-2638) (-)

Ion 84.90 (84.60 to 85.60): VN056935.D (-2638) (-)

Ion 98.90 (98.60 to 99.60): VN056935.D (-2638) (-)



#56

Ethyl methacrylate

Concen: 18.360 ug/l

RT: 10.42 min Scan# 2689

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

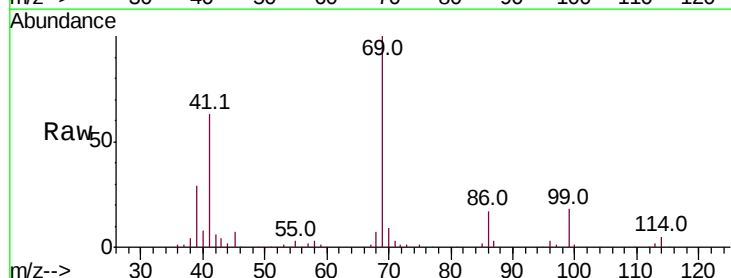
Tgt Ion: 69 Resp: 119695

Ion Ratio Lower Upper

69 100

41 61.2 49.7 74.5

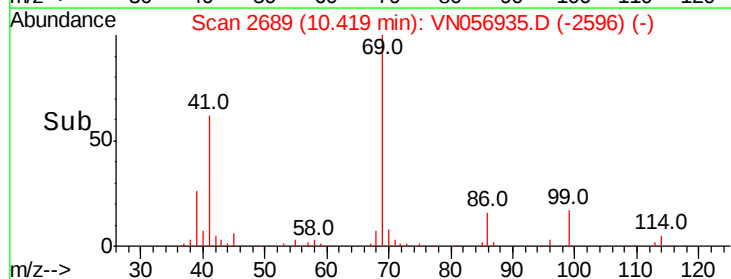
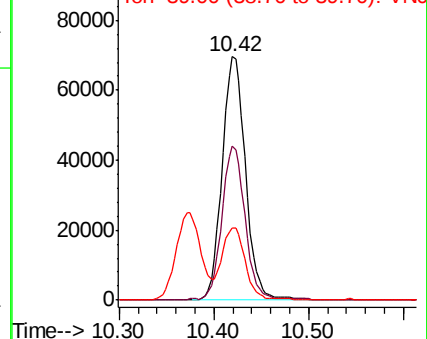
39 29.0 23.6 35.4

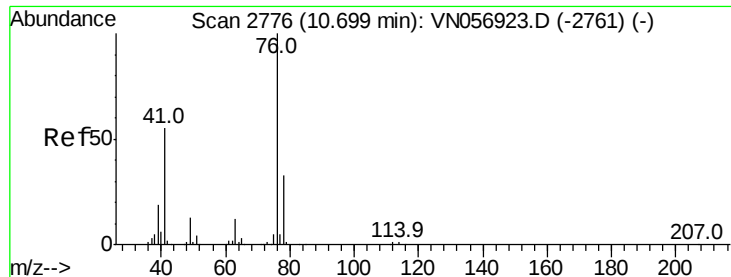


Abundance Ion 69.00 (68.70 to 69.70): VN056935.D (-2596) (-)

Ion 41.00 (40.70 to 41.70): VN056935.D (-2596) (-)

Ion 39.00 (38.70 to 39.70): VN056935.D (-2596) (-)





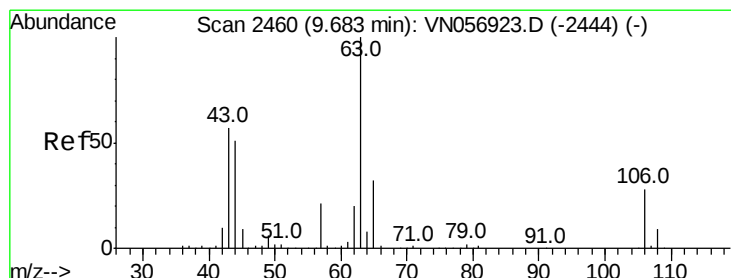
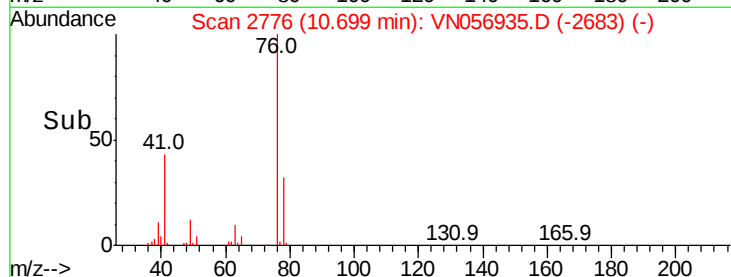
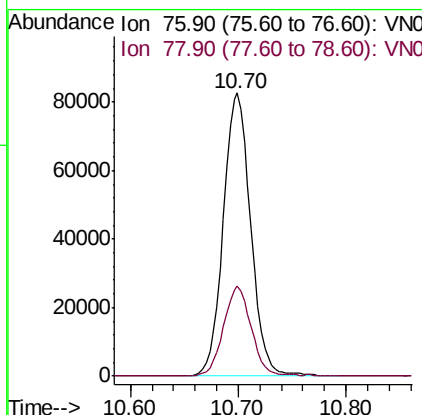
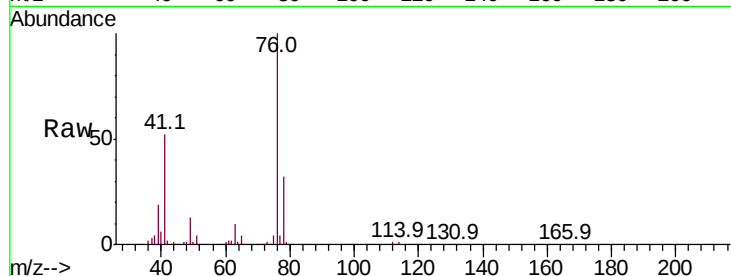
#57
 1,3-Dichloropropane
 Concen: 18.405 ug/l
 RT: 10.70 min Scan# 2776
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.8	38.8

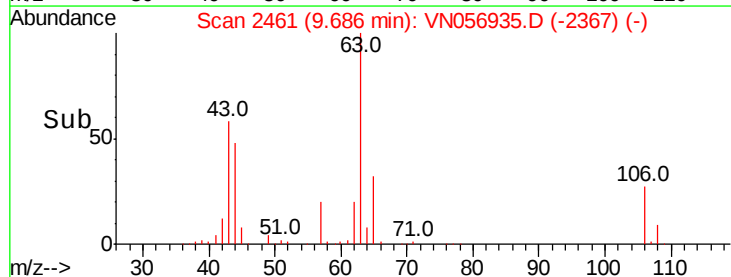
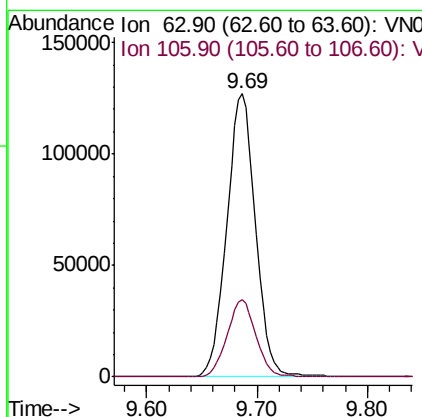
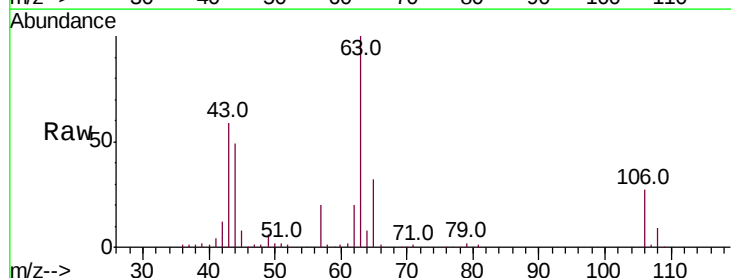
Manual Integrations
 APPROVED

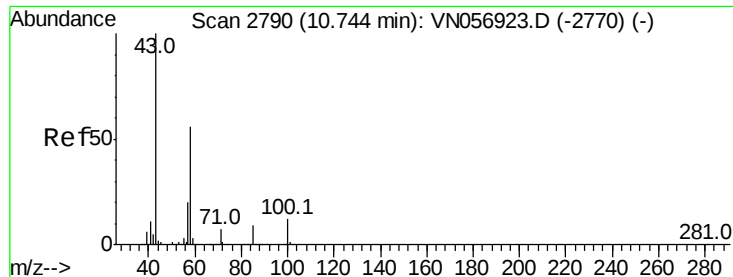
MMDadoda
 7/26/2019 3:38:00 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 83.291 ug/l
 RT: 9.69 min Scan# 2461
 Delta R.T. 0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
63	100		
106	27.4	22.2	33.4





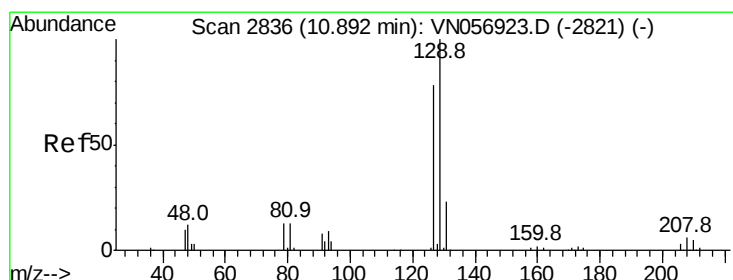
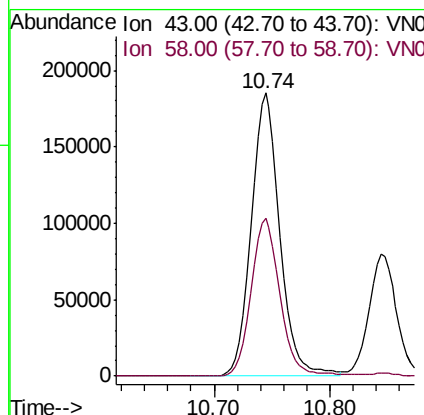
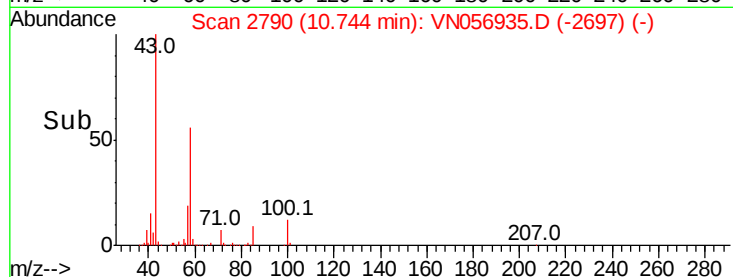
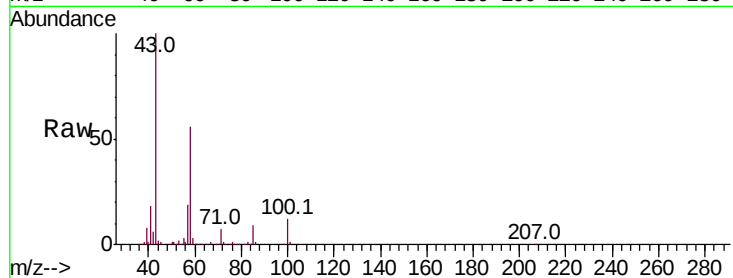
#59
2-Hexanone
Concen: 90.685 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
58	56.6	28.2	84.6

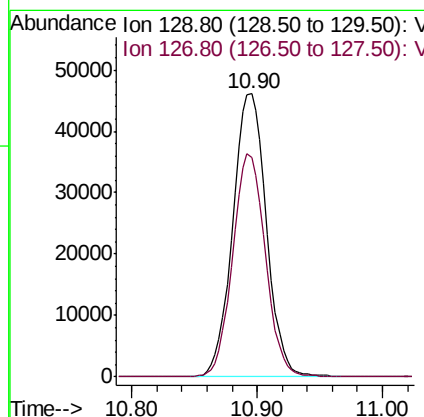
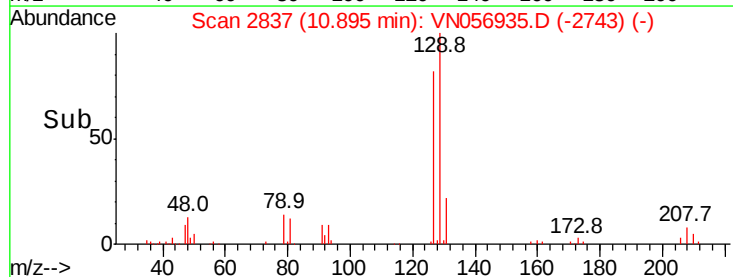
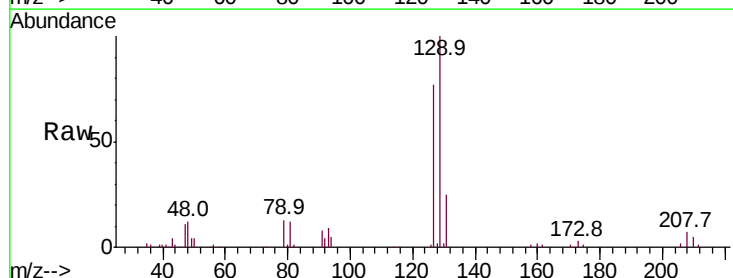
Manual Integrations
APPROVED

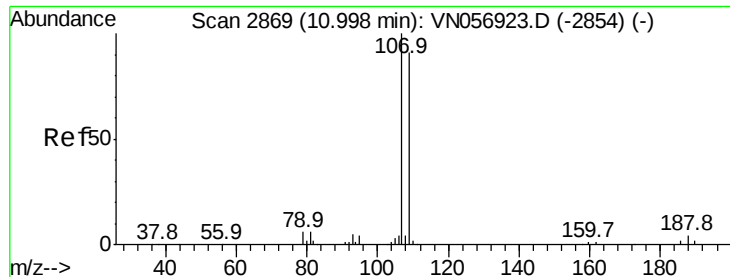
MMDadoda
7/26/2019 3:38:00 PM



#60
Dibromochloromethane
Concen: 17.443 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.4	115.2





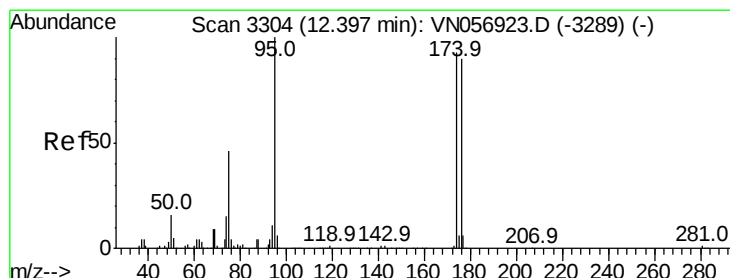
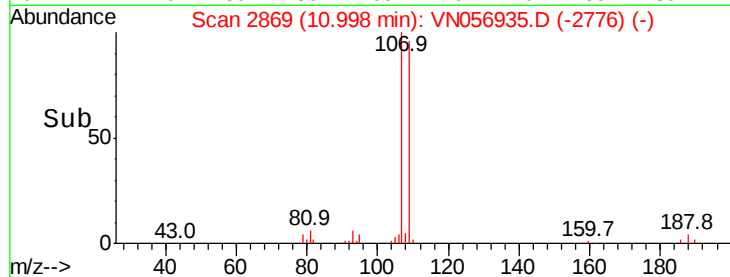
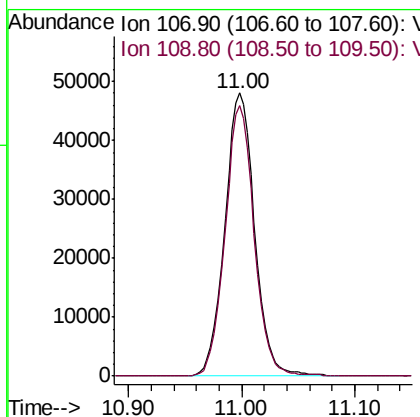
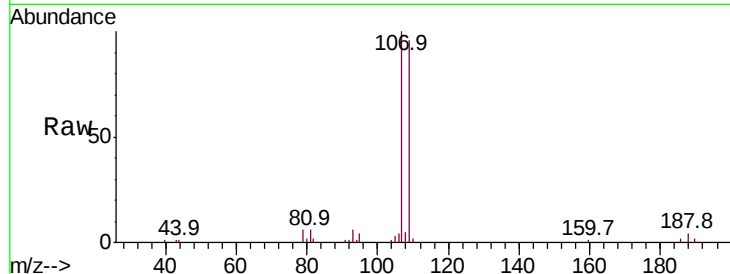
#61
 1,2-Dibromoethane
 Concen: 18.261 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

Tot Ion:107 Resp: 87886
 Ion Ratio Lower Upper
 107 100
 109 93.4 74.8 112.2

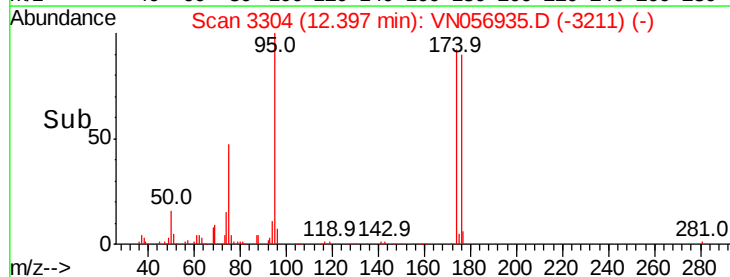
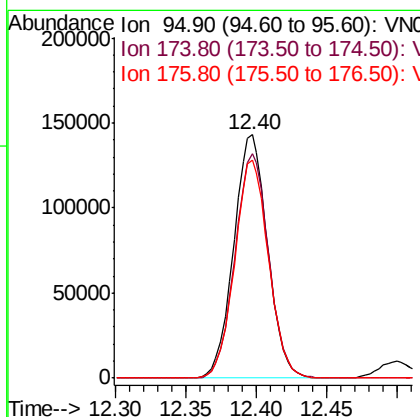
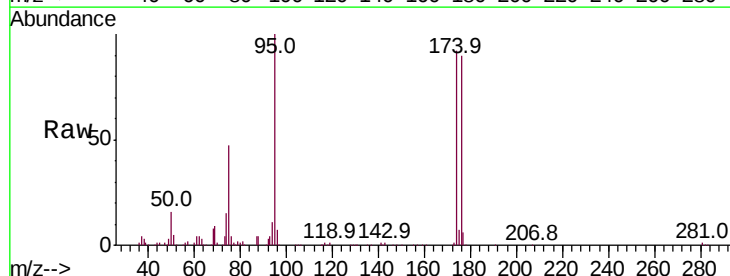
Manual Integrations
 APPROVED

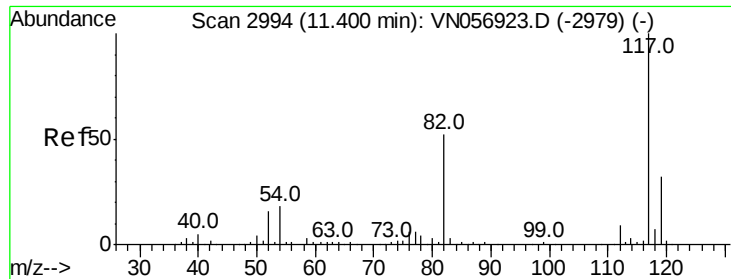
MMDadoda
 7/26/2019 3:38:00 PM



#62
 4-Bromofluorobenzene
 Concen: 42.824 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion: 95 Resp: 239705
 Ion Ratio Lower Upper
 95 100
 174 92.3 0.0 186.2
 176 89.8 0.0 179.6





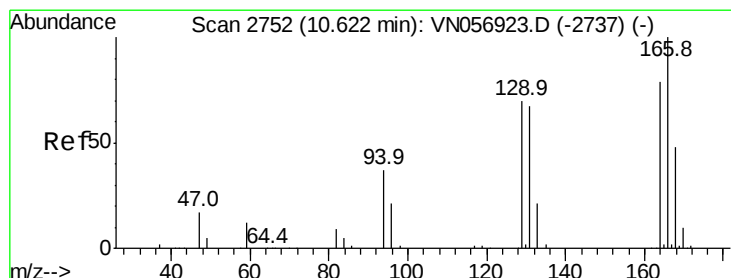
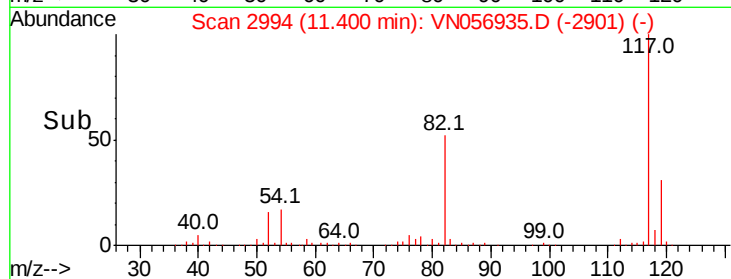
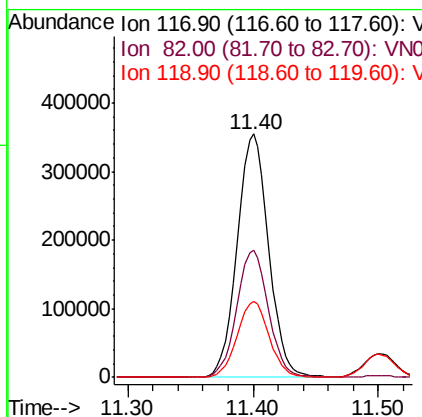
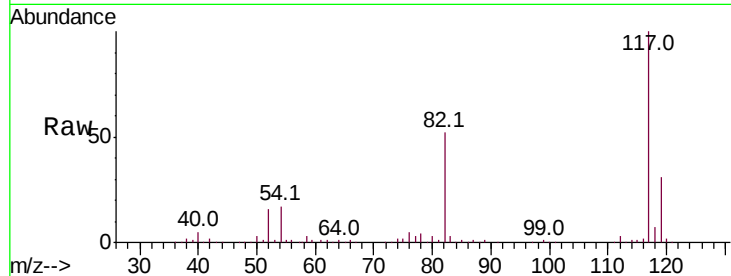
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.1	41.7	62.5
119	31.3	25.5	38.3

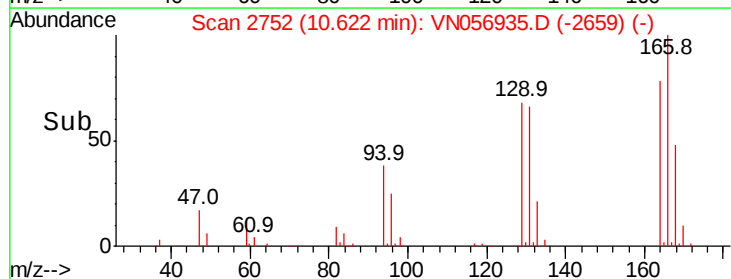
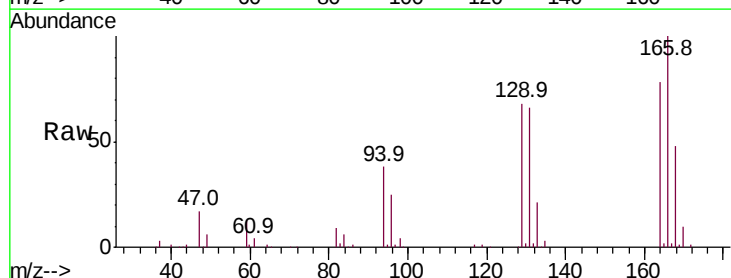
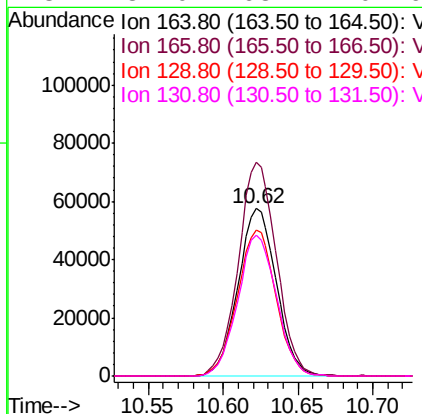
Manual Integrations
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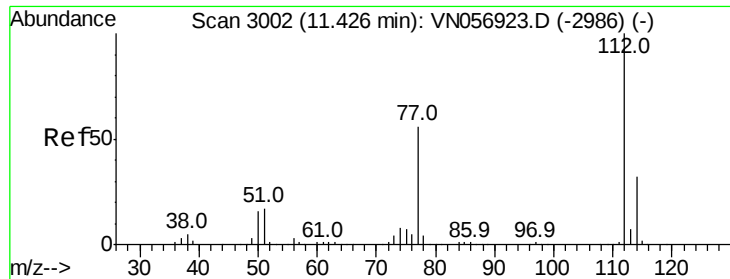
MMDadoda
7/26/2019 3:38:00 PM



#64
Tetrachloroethene
Concen: 18.118 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.4	101.6	152.4
129	87.0	70.9	106.3
131	84.0	68.4	102.6





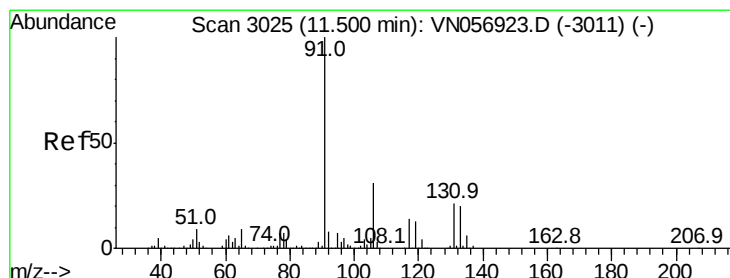
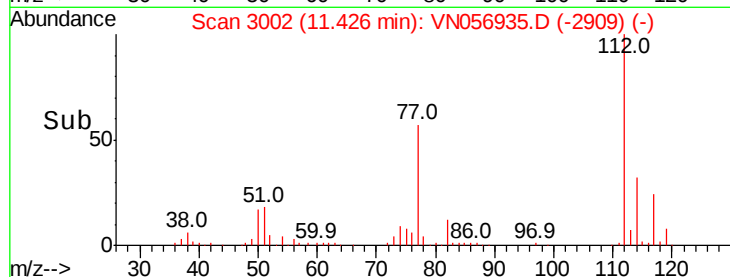
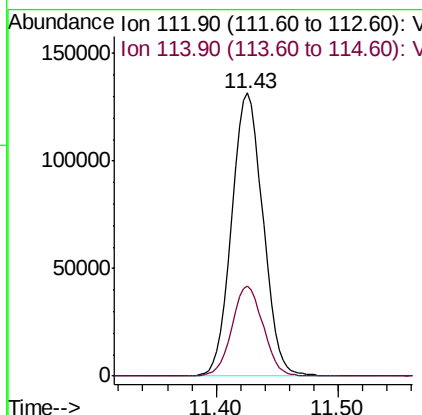
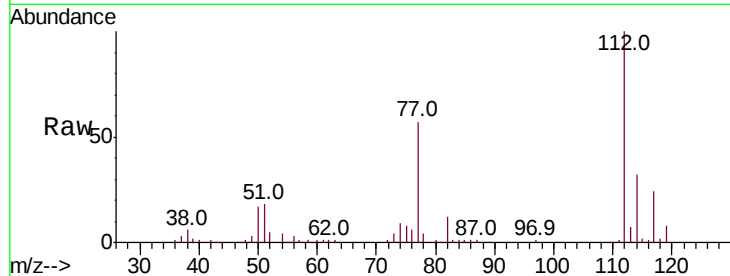
#65
Chlorobenzene
Concen: 18.227 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion:112 Resp: 235405
Ion Ratio Lower Upper
112 100
114 31.8 25.8 38.8

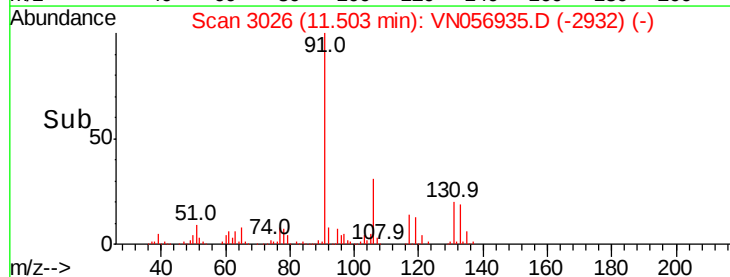
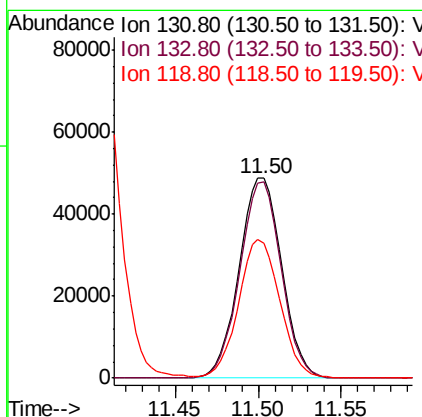
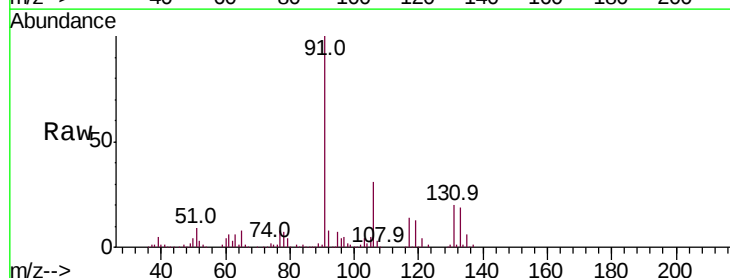
Manual Integrations
APPROVED

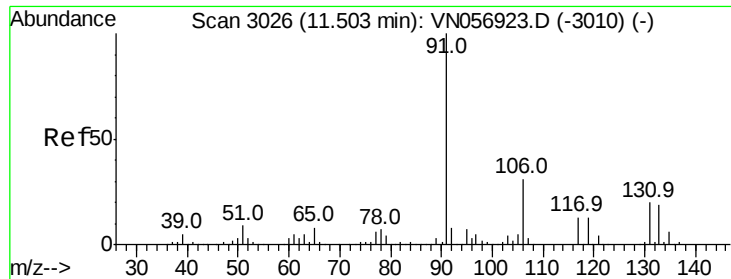
MMDadoda
7/26/2019 3:38:00 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 18.176 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion:131 Resp: 87300
Ion Ratio Lower Upper
131 100
133 95.4 47.1 141.4
119 67.4 32.6 98.0





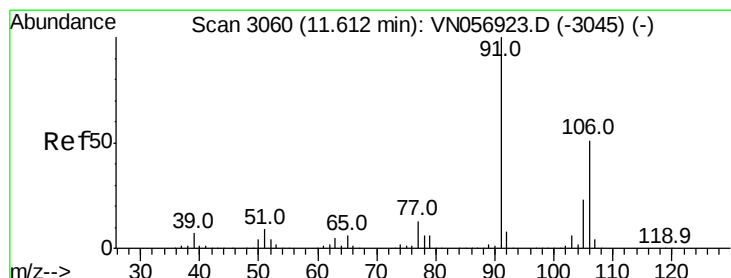
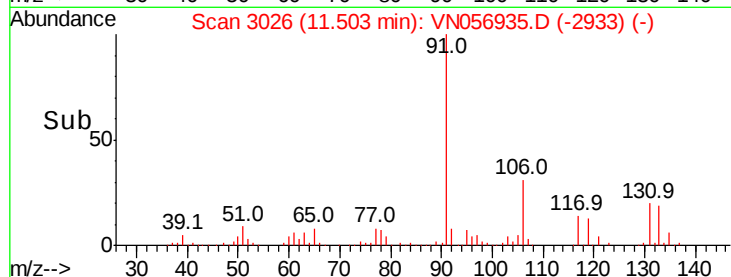
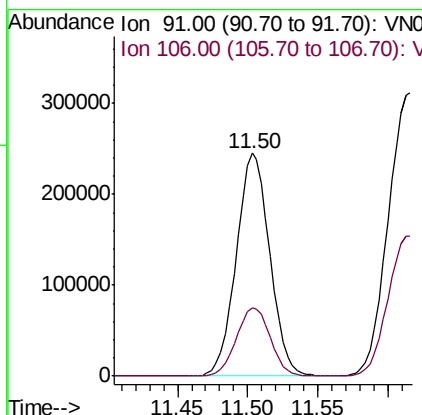
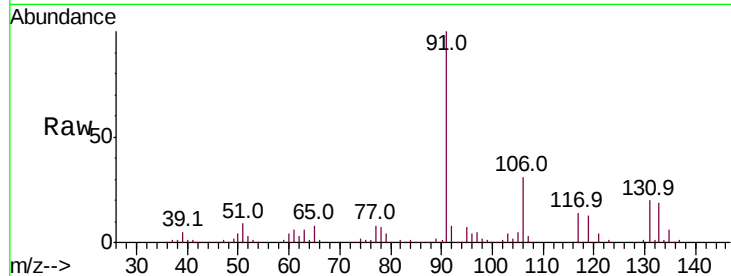
#67
Ethyl Benzene
Concen: 18.305 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampled :
VN0726WBSD01

Tot Ion: 91 Resp: 407038
Ion Ratio Lower Upper
91 100
106 30.7 24.9 37.3

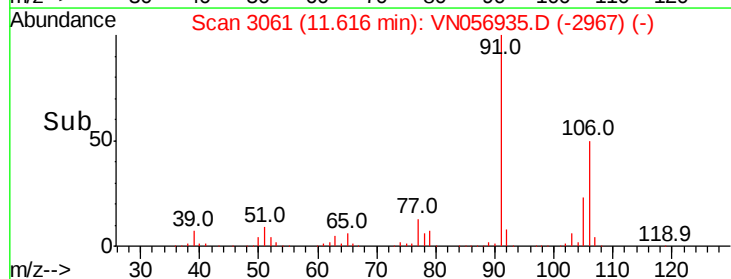
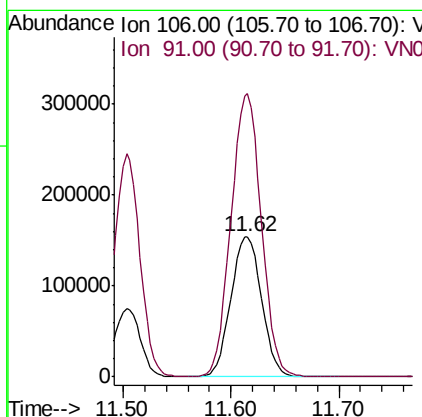
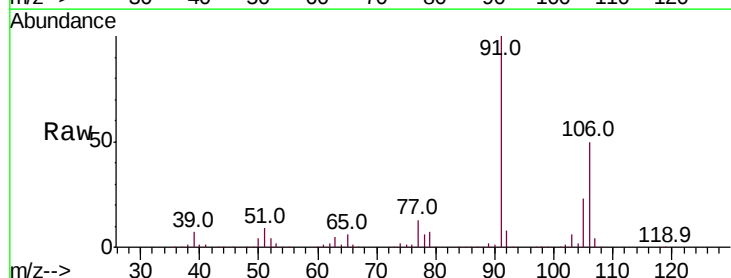
Manual Integrations
APPROVED

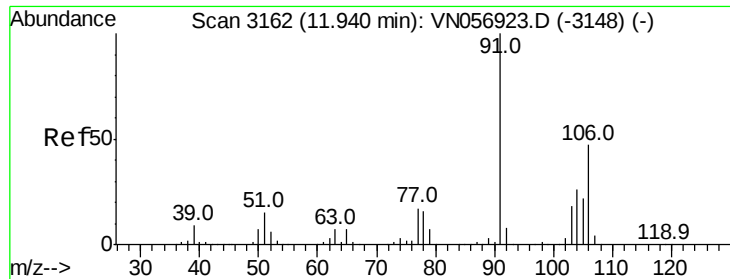
MMDadoda
7/26/2019 3:38:00 PM



#68
m/p-Xylenes
Concen: 36.894 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion: 106 Resp: 305911
Ion Ratio Lower Upper
106 100
91 199.4 159.6 239.4





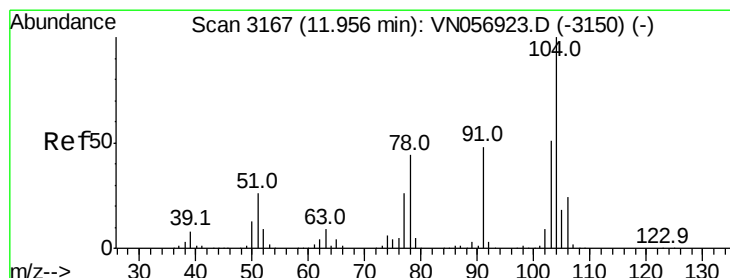
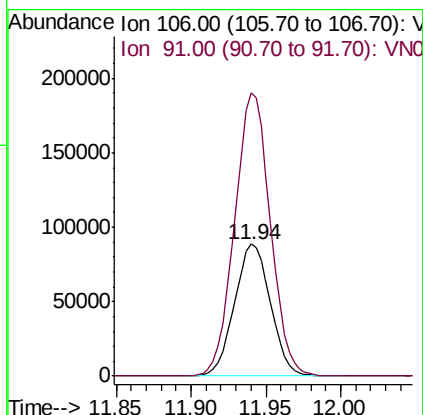
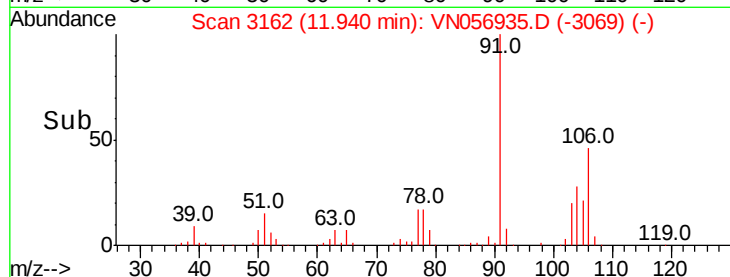
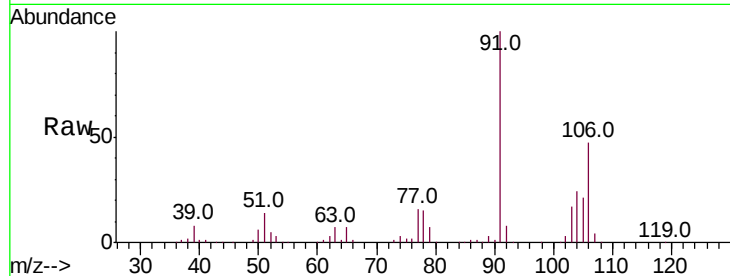
#69
o-Xylene
Concen: 18.274 ug/l
RT: 11.94 min Scan# 3162
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion:106 Resp: 148267
Ion Ratio Lower Upper
106 100
91 213.2 105.7 317.0

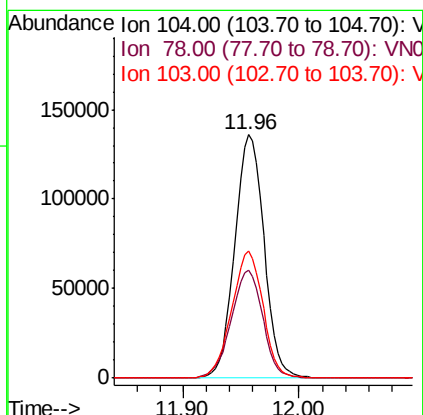
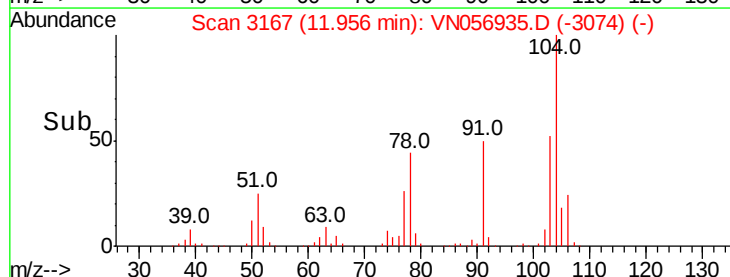
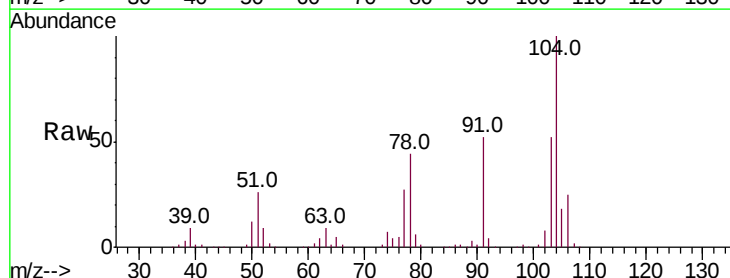
Manual Integrations
APPROVED

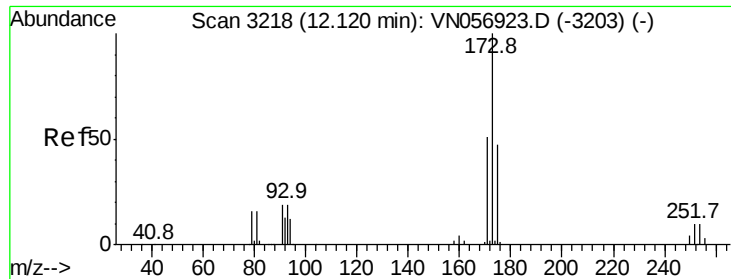
MMDadoda
7/26/2019 3:38:00 PM



#70
Styrene
Concen: 17.403 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion:104 Resp: 238271
Ion Ratio Lower Upper
104 100
78 47.8 38.5 57.7
103 55.8 44.1 66.1





#71

Bromoform

Concen: 17.420 ug/l

RT: 12.12 min Scan# 3218

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion:173 Resp: 58115

Ion Ratio Lower Upper

173 100

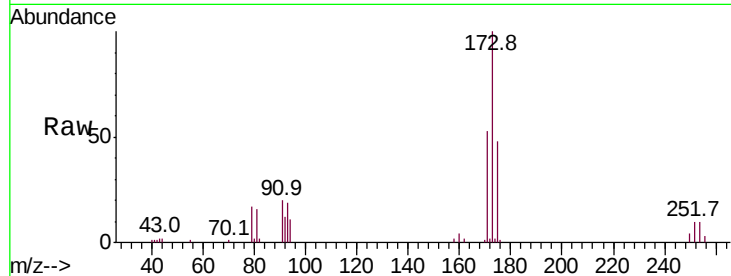
175 49.6 24.2 72.6

254 0.0 0.1 0.1#

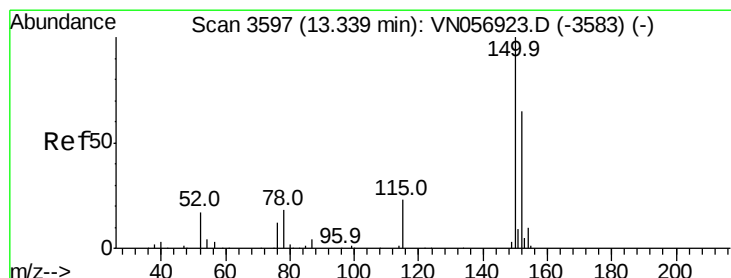
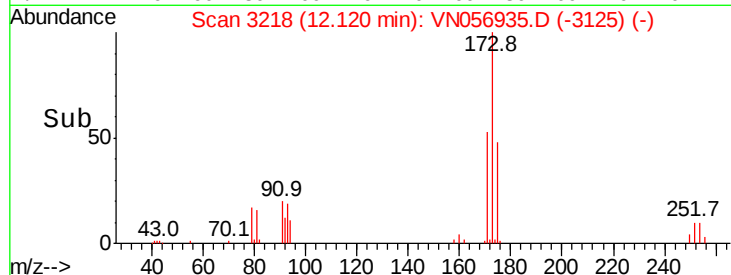
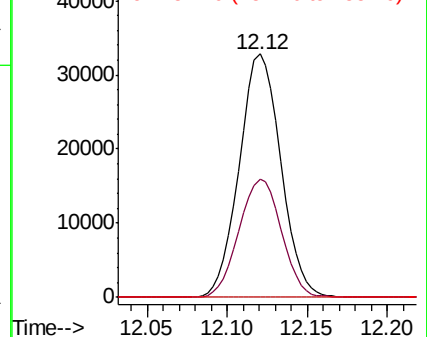
Manual Integrations
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

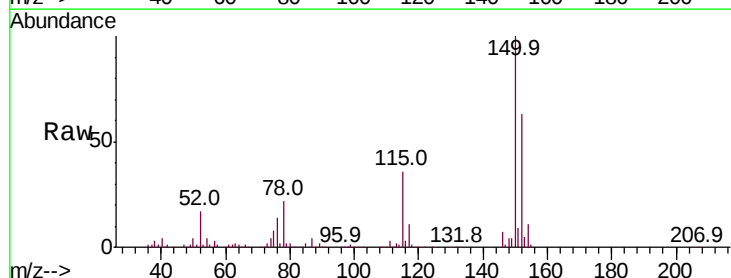
Tgt Ion:152 Resp: 238523

Ion Ratio Lower Upper

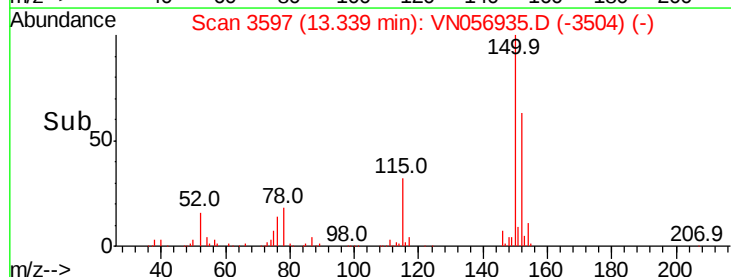
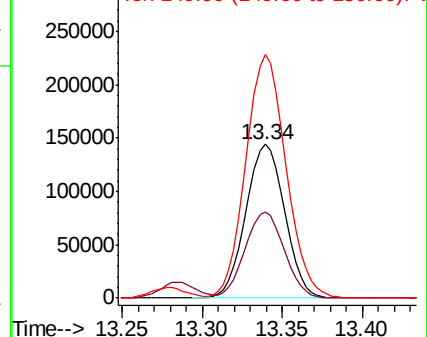
152 100

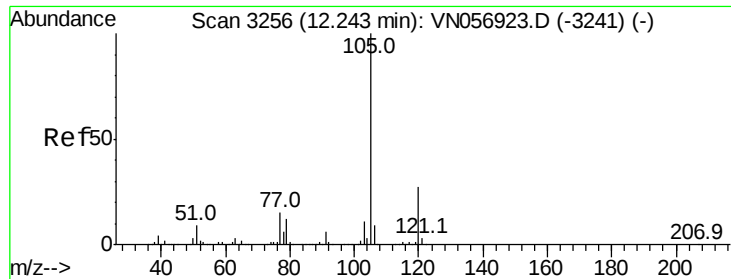
115 56.6 27.9 83.7

150 164.2 0.0 354.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





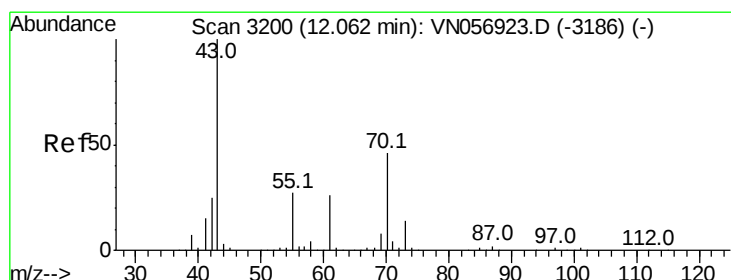
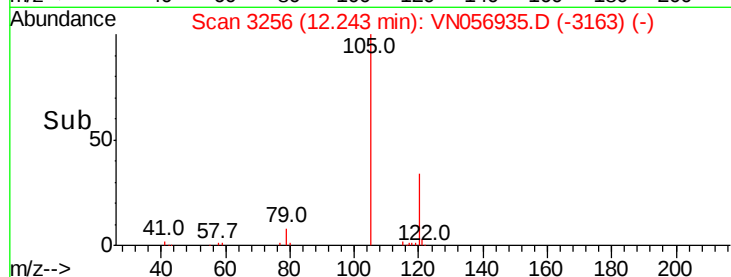
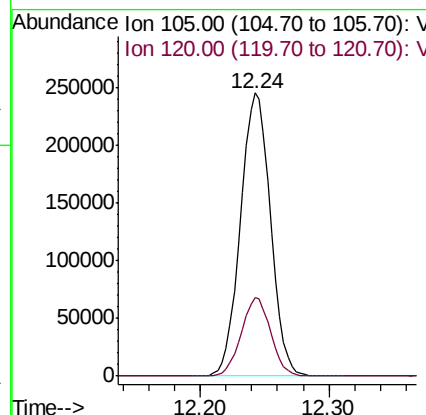
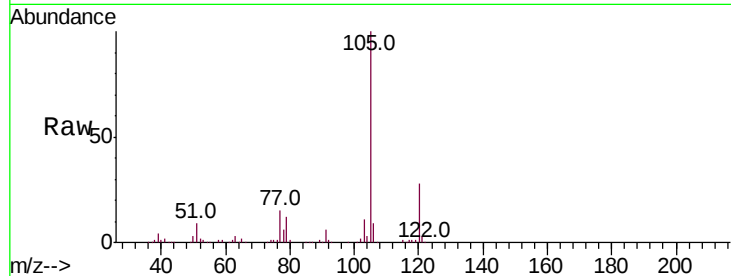
#73
Isopropylbenzene
Concen: 18.947 ug/l
RT: 12.24 min Scan# 3256
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.4	40.1

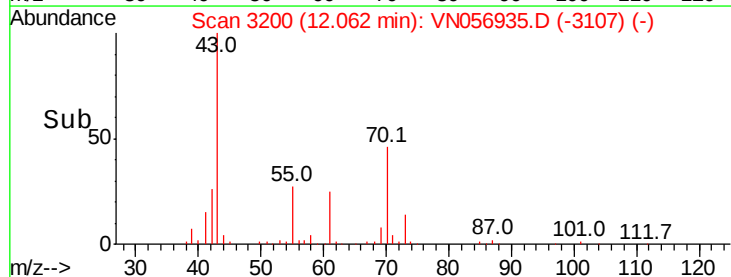
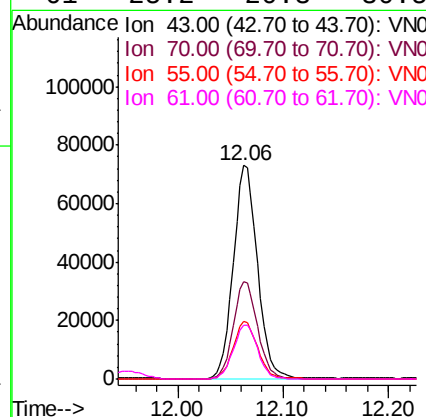
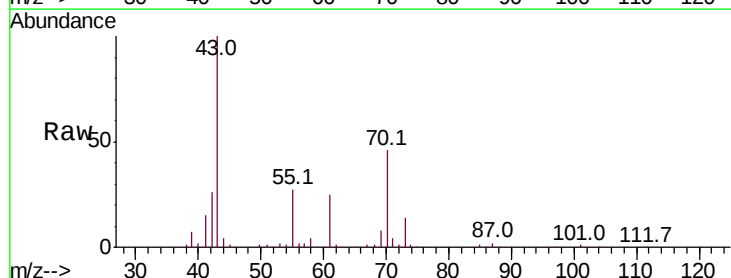
Manual Integrations
APPROVED

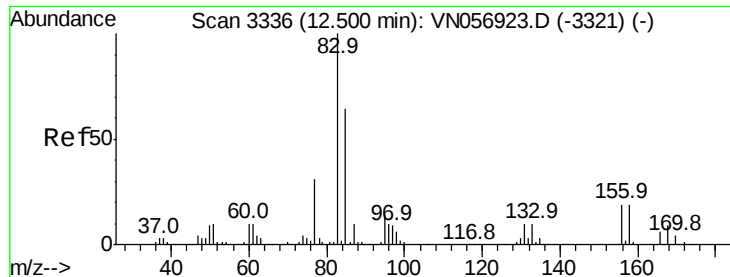
MMDadoda
7/26/2019 3:38:00 PM



#74
N-ethyl acetate
Concen: 18.272 ug/l
RT: 12.06 min Scan# 3200
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
43	100		
70	45.5	35.9	53.9
55	27.3	21.4	32.2
61	25.2	20.3	30.5





#75

1,1,2,2-Tetrachloroethane

Concen: 20.217 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion: 83 Resp: 113608

Ion Ratio Lower Upper

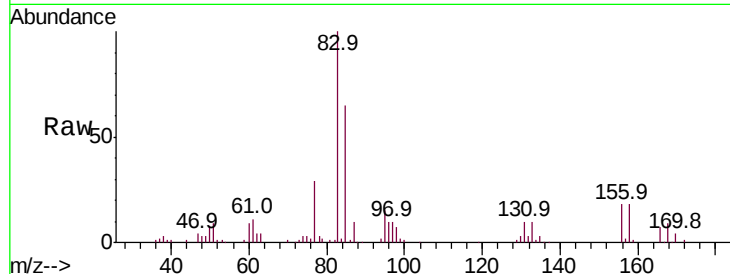
83 100

131 10.4 5.3 15.8

85 64.9 32.3 96.9

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Abundance Ion 82.90 (82.60 to 83.60): VN056935.D (-3321) (-)

Ion 130.80 (130.50 to 131.50): VN056935.D (-3321) (-)

Ion 84.90 (84.60 to 85.60): VN056935.D (-3321) (-)

12.50

80000

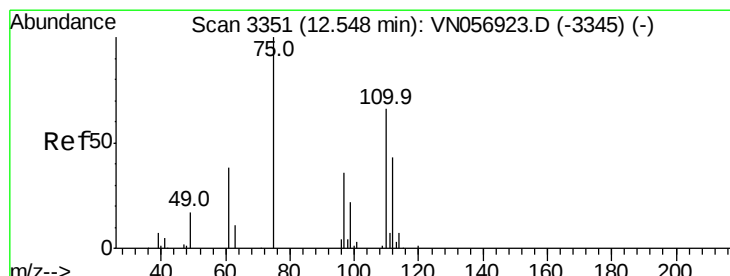
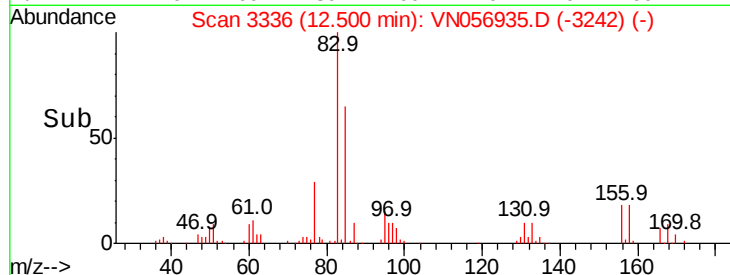
60000

40000

20000

0

Time-->



#76

1,2,3-Trichloropropane

Concen: 17.080 ug/l m

RT: 12.55 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VN056935.D

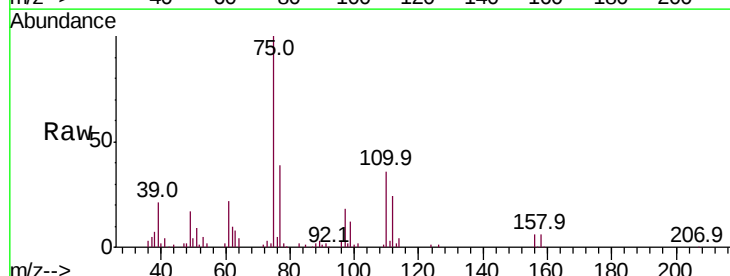
Acq: 25 Jul 2019 21:37

Tgt Ion: 75 Resp: 86572

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN056935.D (-3351) (-)

Ion 77.00 (76.70 to 77.70): VN056935.D (-3351) (-)

100000

80000

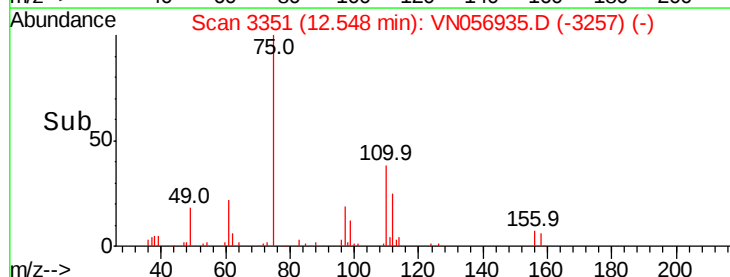
60000

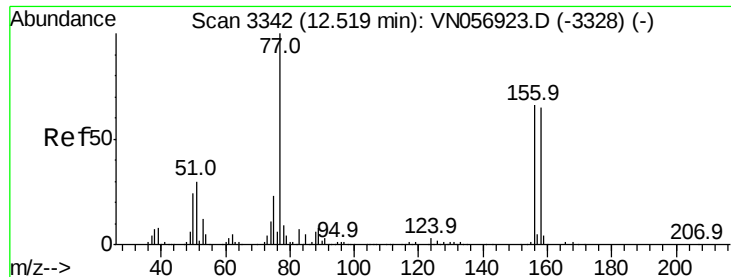
40000

20000

0

Time-->





#77

Bromobenzene

Concen: 18.320 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

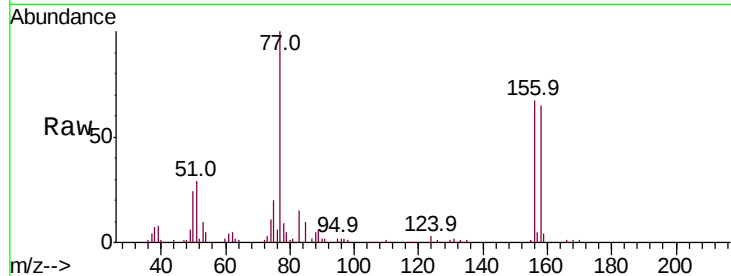
ClientSampleId :

VN0726WBSD01

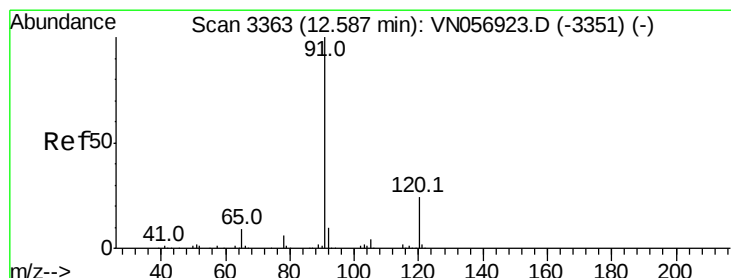
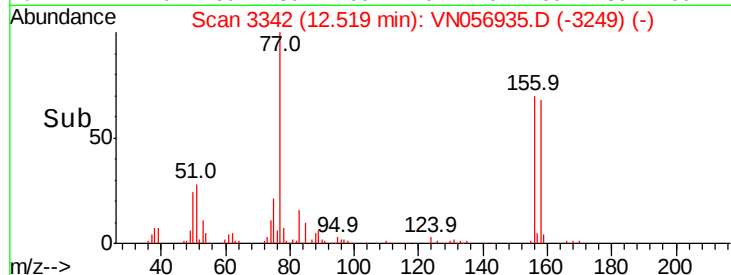
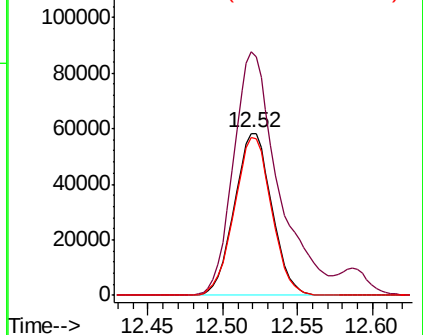
Tot Ion:	156	Resp:	101626
Ion Ratio	Lower	Upper	
156	100		
77	181.2	90.8	272.3
158	96.9	49.5	148.5

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Abundance Ion 155.80 (155.50 to 156.50): V
120000
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.045 ug/l

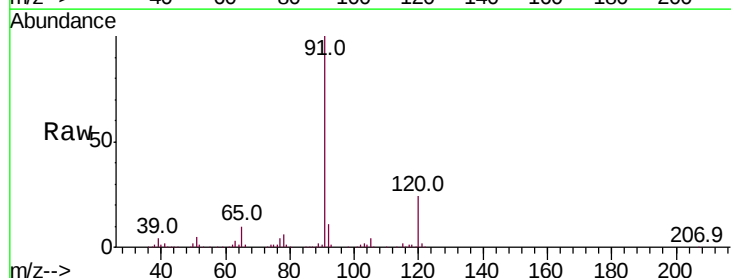
RT: 12.59 min Scan# 3363

Delta R.T. -0.00 min

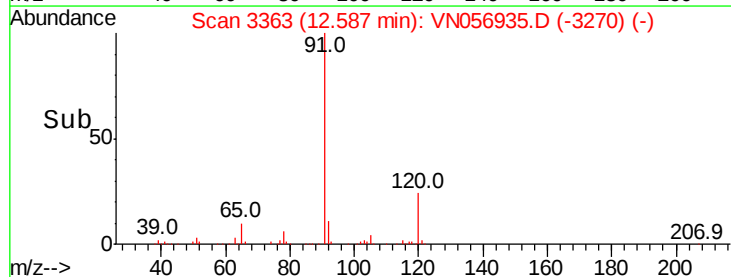
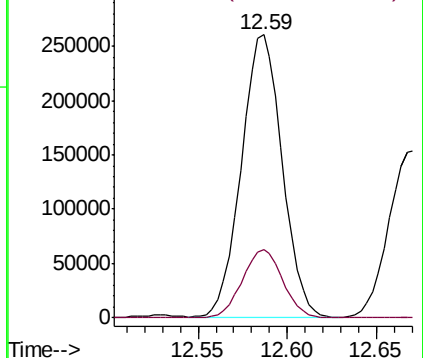
Lab File: VN056935.D

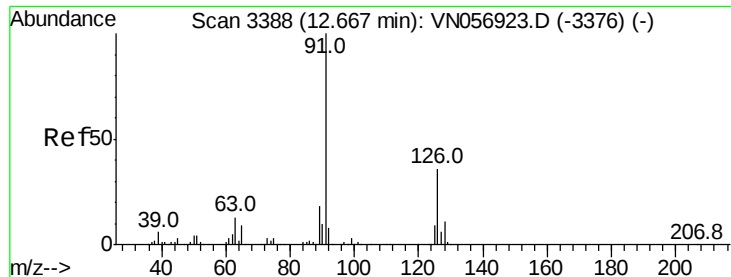
Acq: 25 Jul 2019 21:37

Tgt Ion:	91	Resp:	413733
Ion Ratio	Lower	Upper	
91	100		
120	24.0	11.9	35.7



Abundance Ion 91.00 (90.70 to 91.70): VN
300000
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 18.666 ug/l

RT: 12.67 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion: 91 Resp: 256147

Ion Ratio Lower Upper

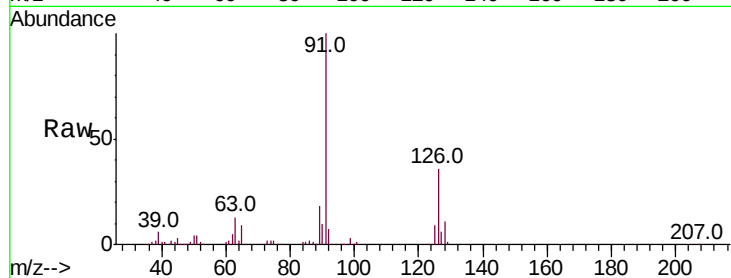
91 100

126 35.7 17.9 53.7

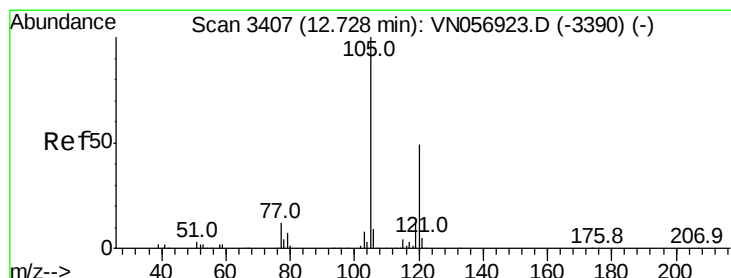
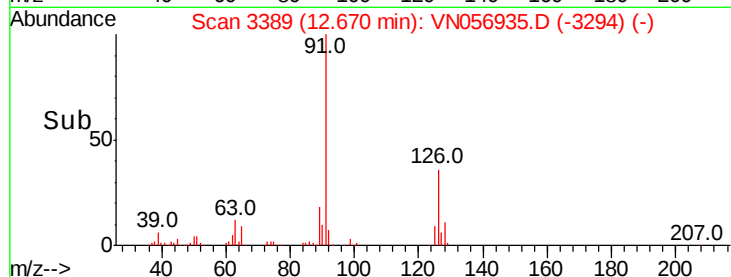
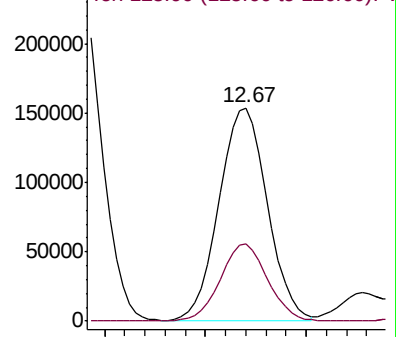
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Abundance Ion 91.00 (90.70 to 91.70): VN056935.D (-3388) (-)



#80

1,3,5-Trimethylbenzene

Concen: 18.302 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN056935.D

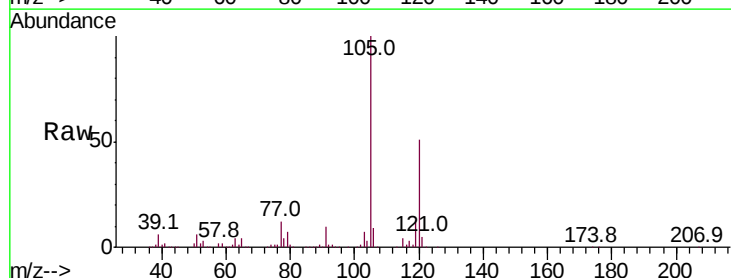
Acq: 25 Jul 2019 21:37

Tgt Ion: 105 Resp: 328093

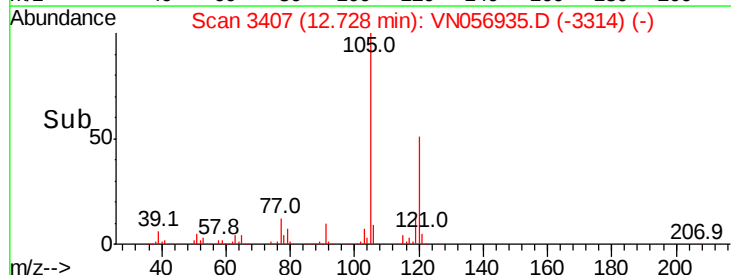
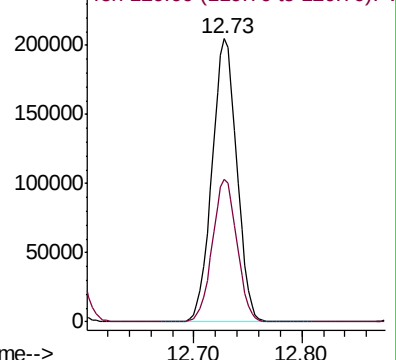
Ion Ratio Lower Upper

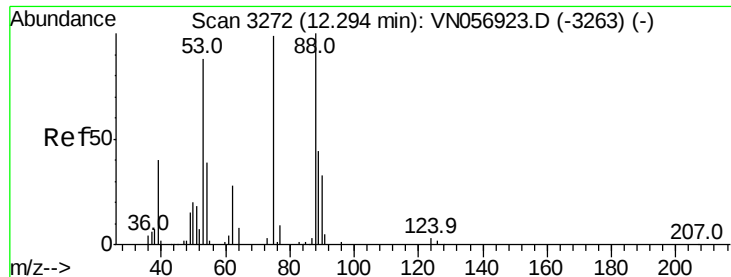
105 100

120 50.0 24.9 74.7



Abundance Ion 105.00 (104.70 to 105.70): VN056935.D (-3407) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 16.270 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. 0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion: 75 Resp: 24637

Ion Ratio Lower Upper

75 100

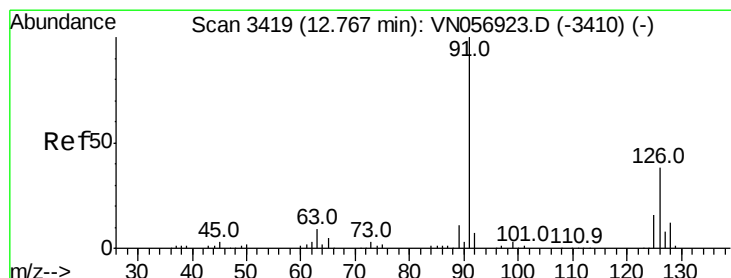
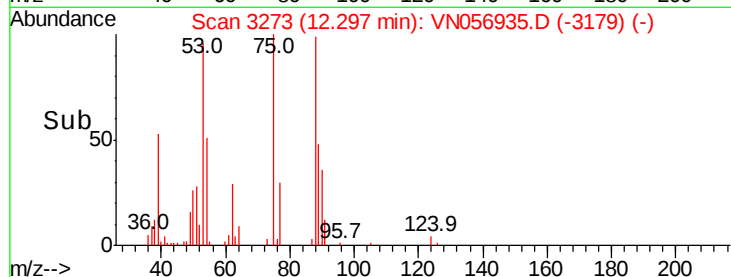
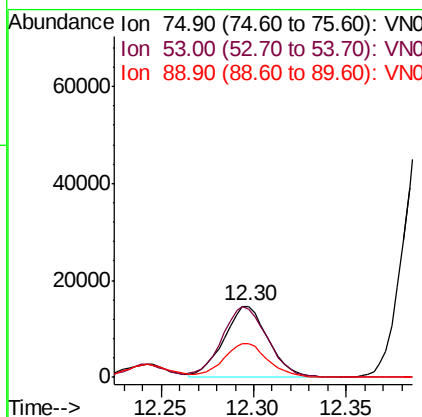
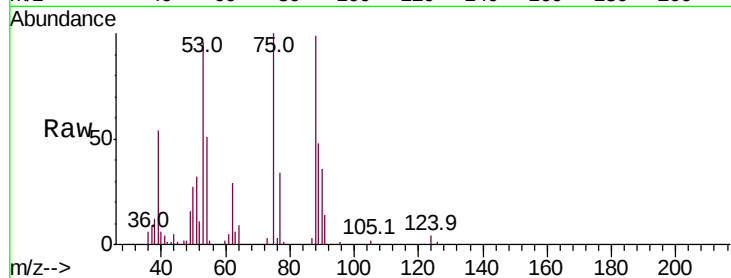
53 101.4 72.3 108.5

89 46.8 36.2 54.2

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#82

4-Chlorotoluene

Concen: 18.405 ug/l

RT: 12.77 min Scan# 3420

Delta R.T. 0.00 min

Lab File: VN056935.D

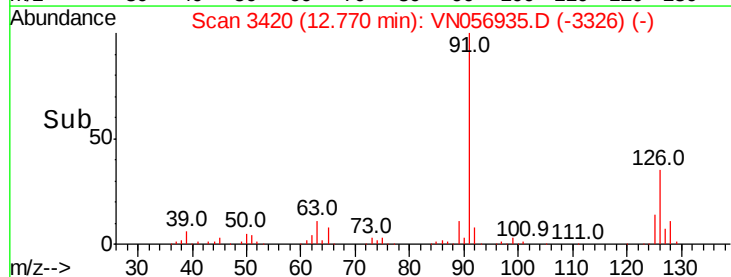
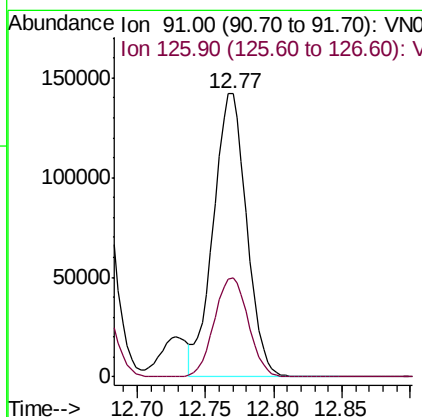
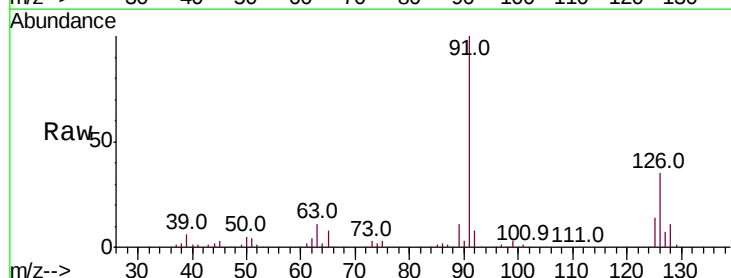
Acq: 25 Jul 2019 21:37

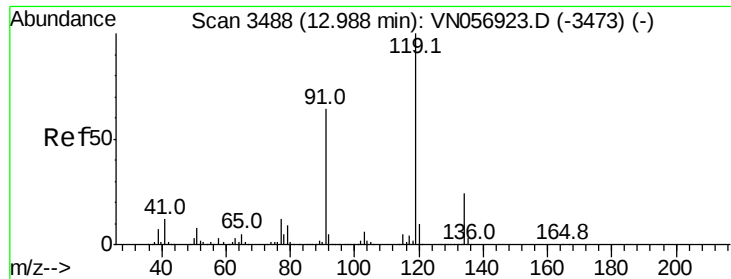
Tgt Ion: 91 Resp: 241358

Ion Ratio Lower Upper

91 100

126 35.6 17.3 51.7





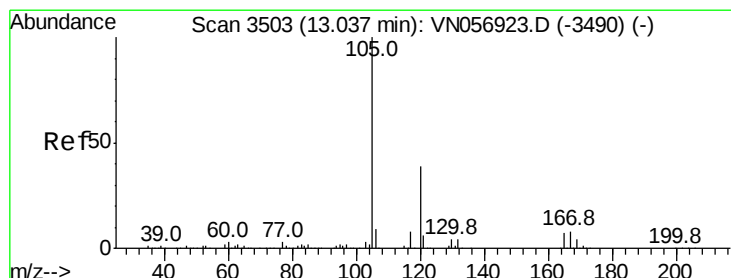
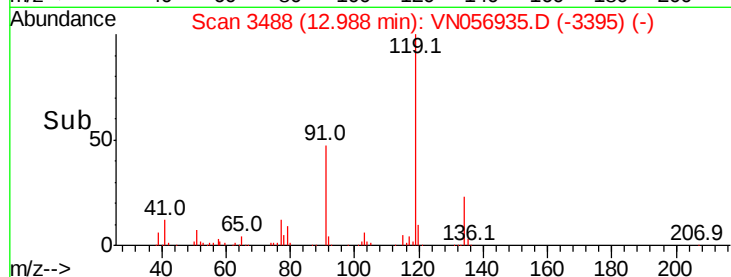
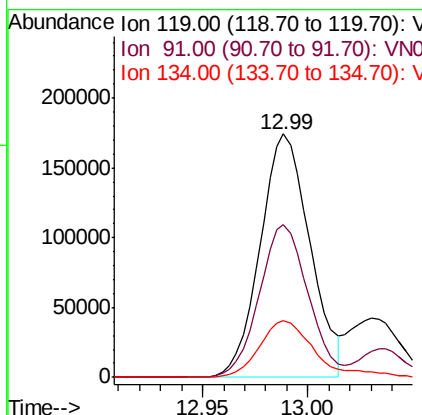
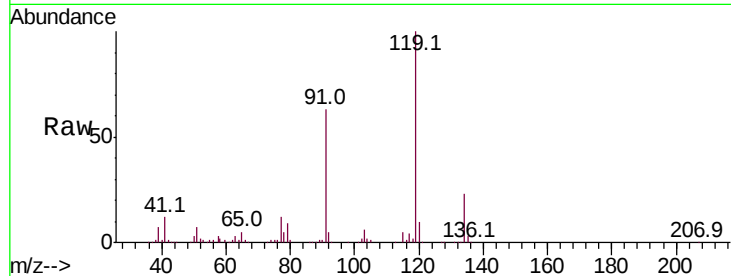
#83
 tert-Butylbenzene
 Concen: 19.077 ug/l
 RT: 12.99 min Scan# 3488
 Delta R.T. 0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	286612		
91	61.8	31.6	95.0	
134	25.9	13.2	39.5	

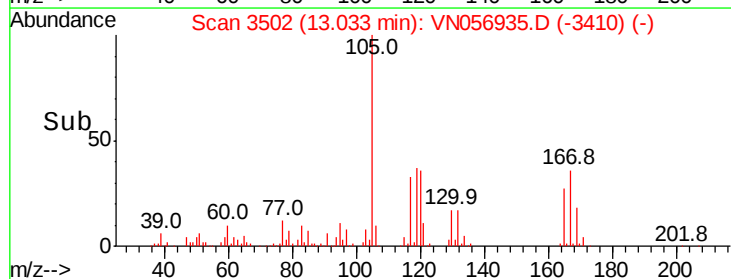
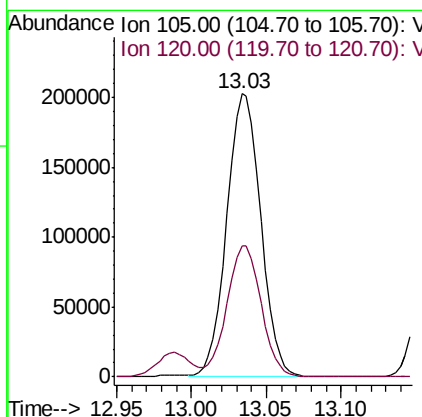
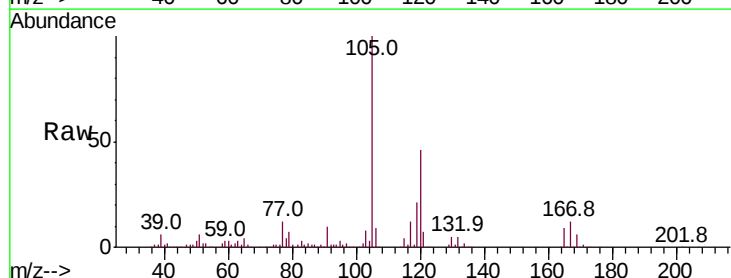
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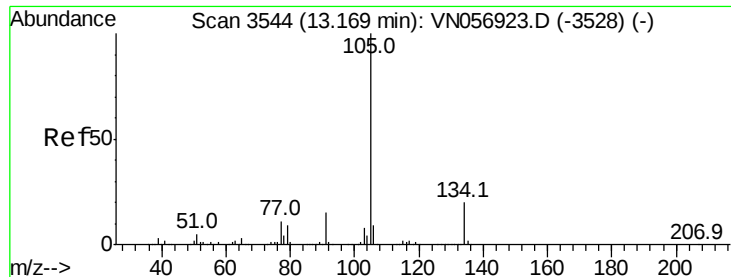
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#84
 1,2,4-Trimethylbenzene
 Concen: 18.917 ug/l
 RT: 13.03 min Scan# 3502
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	321142		
120	46.4	23.1	69.2	





#85

sec-Butylbenzene

Concen: 18.274 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

Instrument :

MSVOA_N

ClientSampleId :

VN0726WBSD01

Tot Ion:105 Resp: 364987

Ion Ratio Lower Upper

105 100

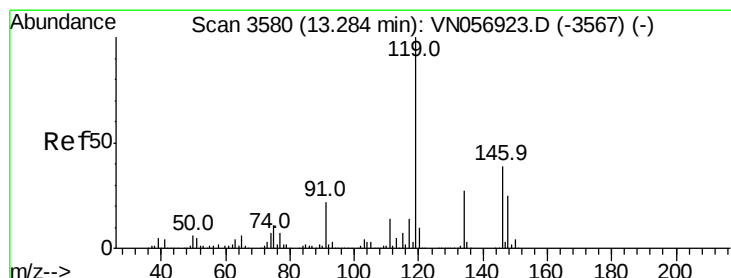
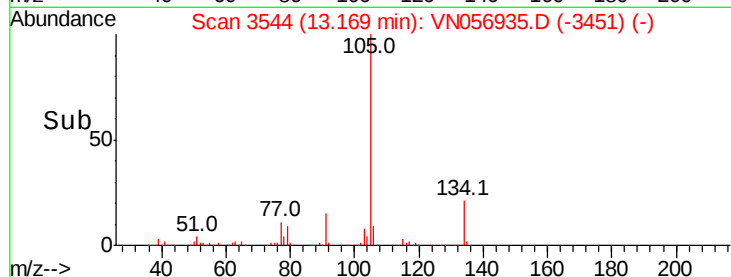
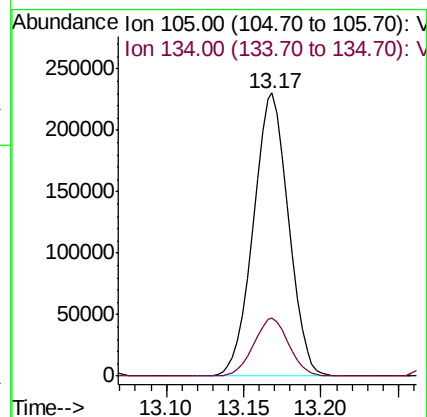
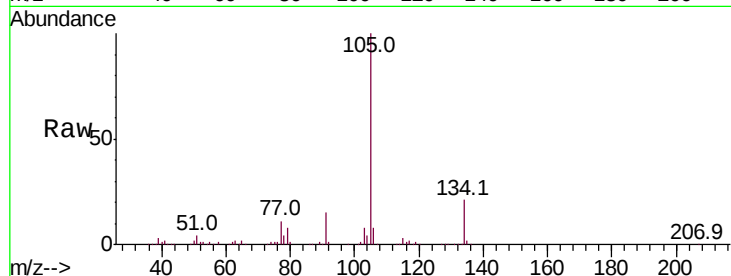
134 20.6 10.3 30.8

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#86

p-Isopropyltoluene

Concen: 18.461 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN056935.D

Acq: 25 Jul 2019 21:37

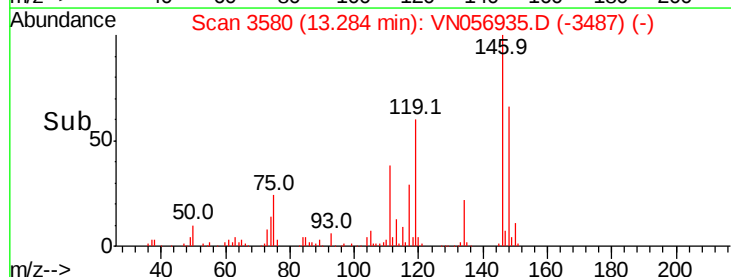
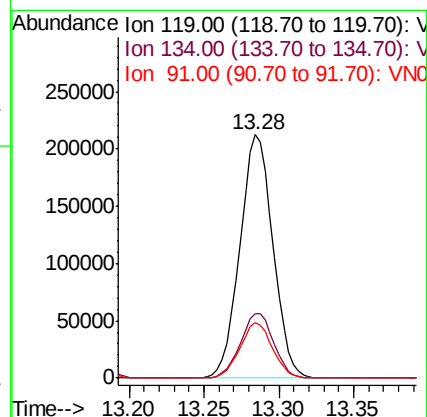
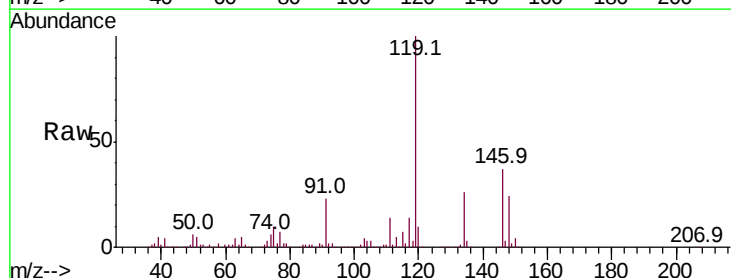
Tgt Ion:119 Resp: 325826

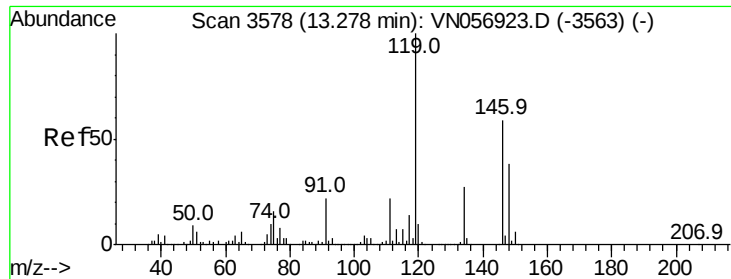
Ion Ratio Lower Upper

119 100

134 26.7 13.5 40.5

91 22.5 11.0 33.0





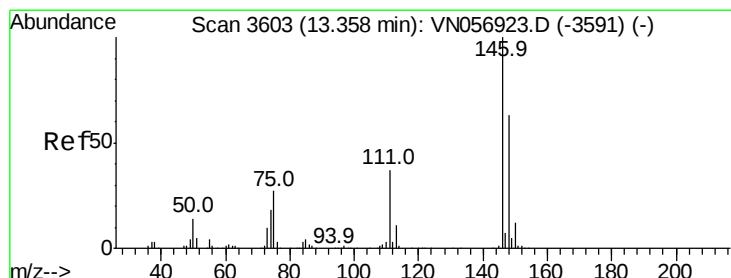
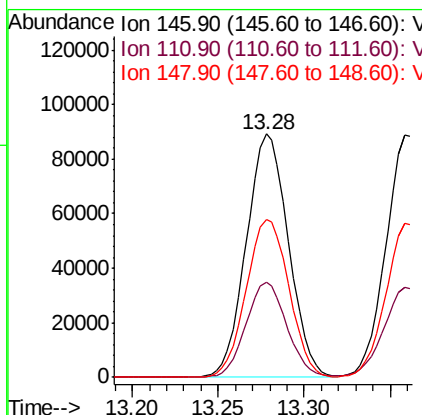
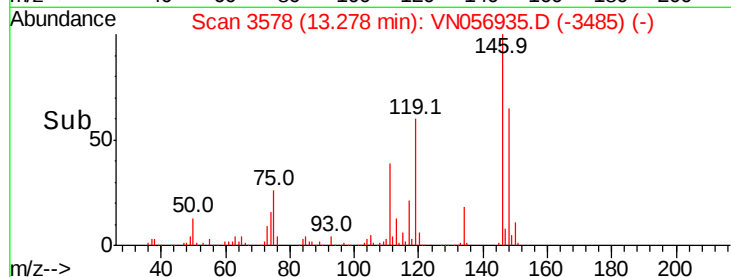
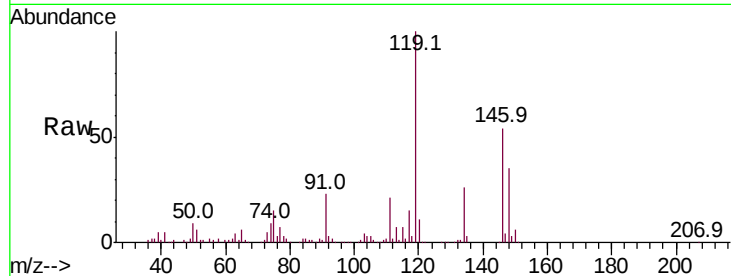
#87
 1,3-Dichlorobenzene
 Concen: 18.265 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.9	18.6	56.0
148	65.7	31.6	94.7

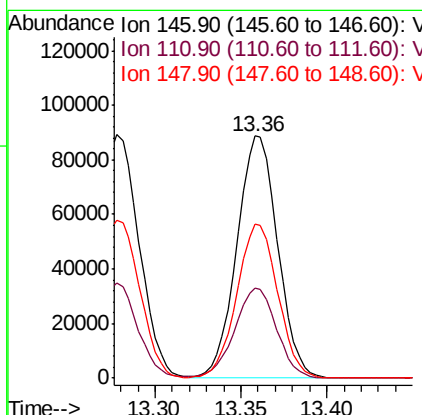
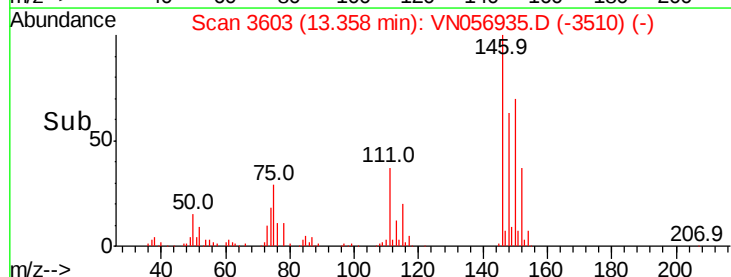
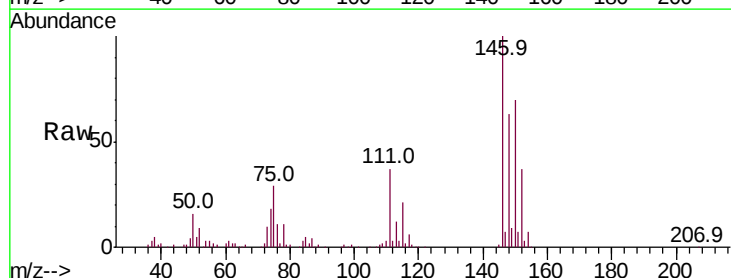
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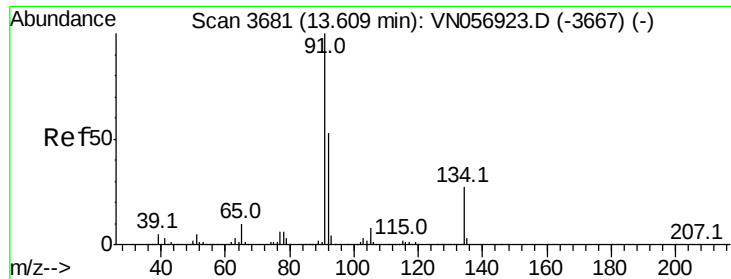
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#88
 1,4-Dichlorobenzene
 Concen: 18.466 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.9	56.5
148	64.2	32.1	96.3





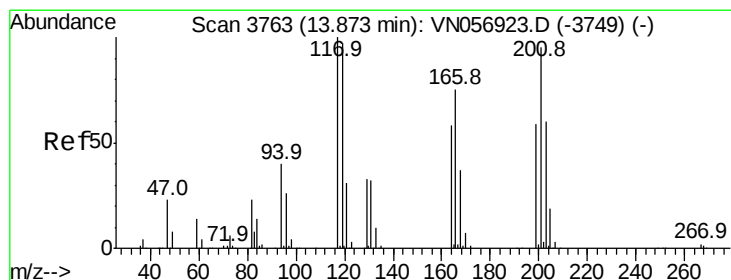
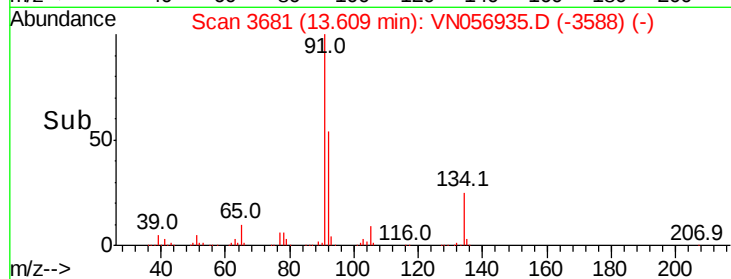
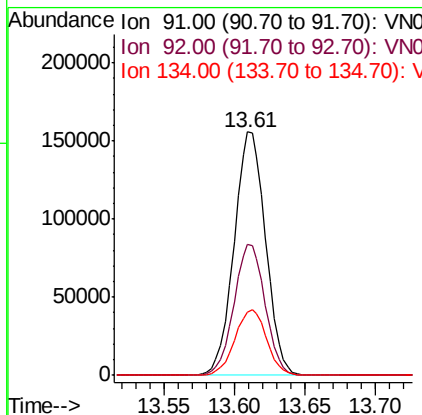
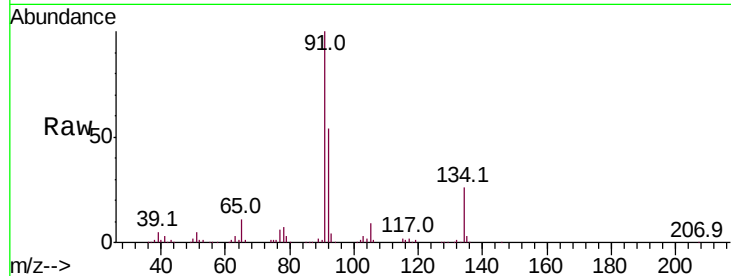
#89
n-Butylbenzene
Concen: 17.861 ug/l
RT: 13.61 min Scan# 3681
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.5	79.5
134	27.1	13.5	40.5

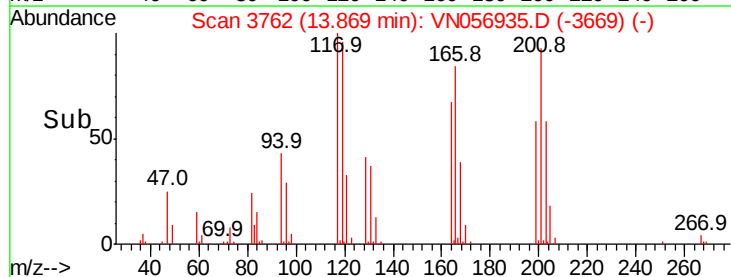
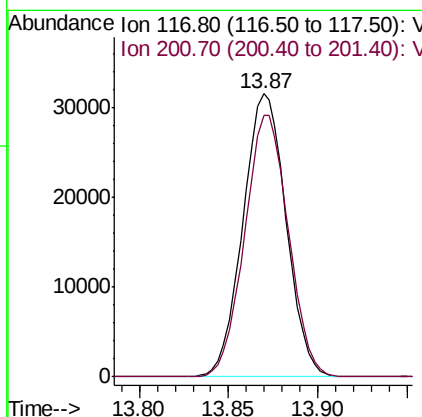
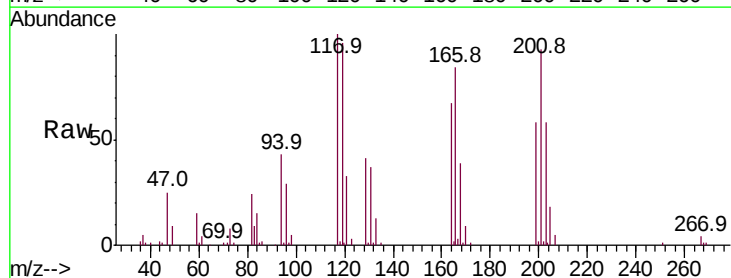
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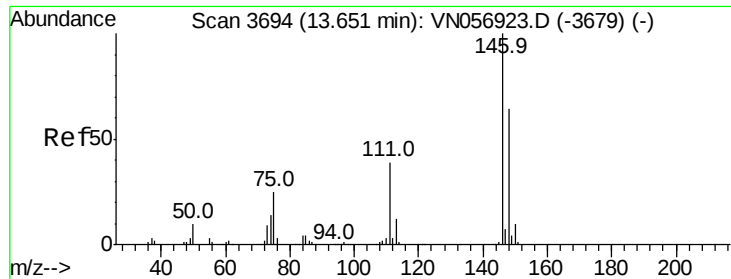
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#90
Hexachloroethane
Concen: 18.434 ug/l
RT: 13.87 min Scan# 3762
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
117	100		
201	93.4	47.3	142.0





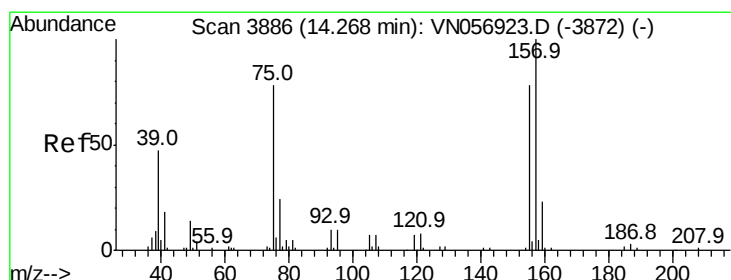
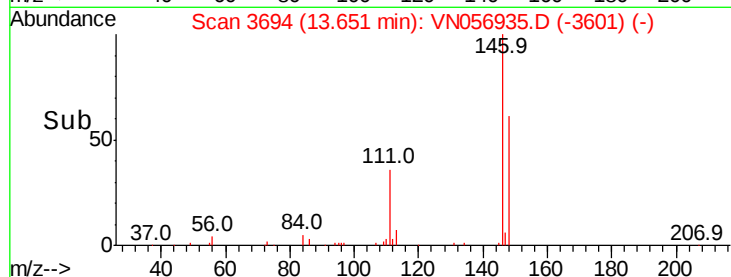
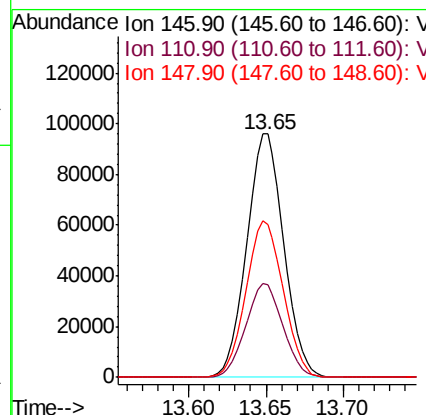
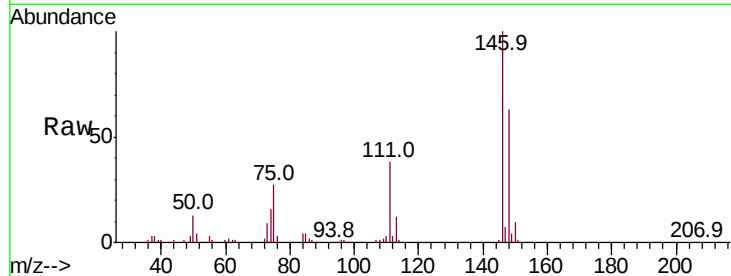
#91
 1,2-Dichlorobenzene
 Concen: 19.041 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.5	19.6	58.8
148	64.5	32.2	96.6

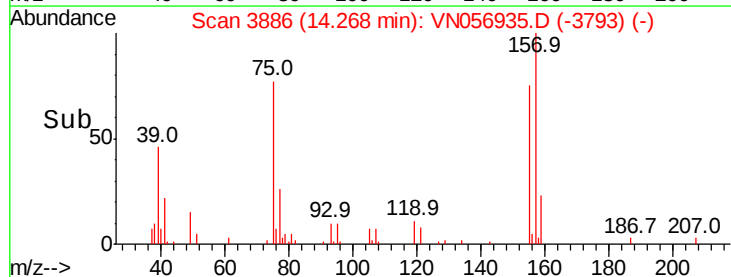
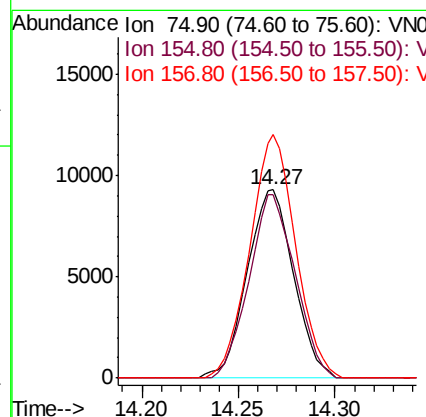
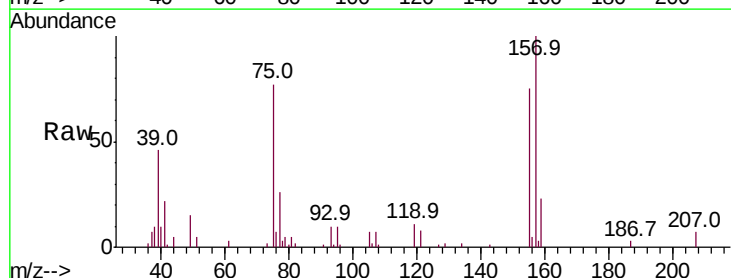
Manual Integrations
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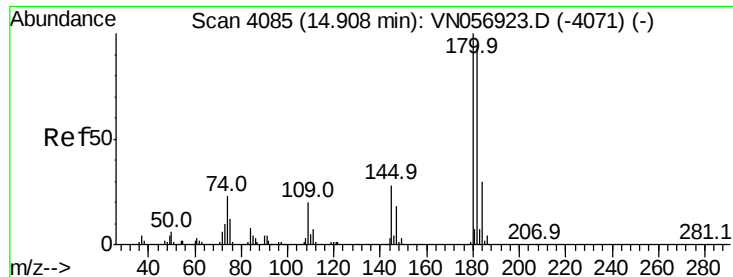
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 7/26/2019 3:38:00 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 18.158 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.7	47.3	141.9
157	127.1	63.0	189.0





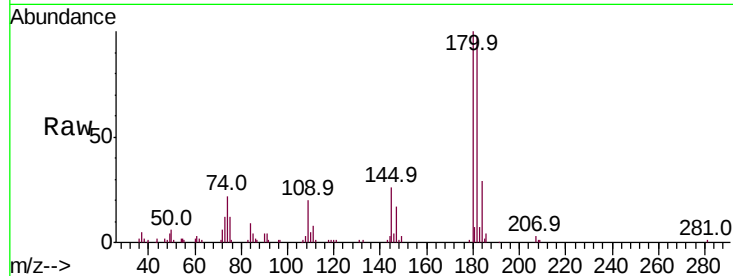
#93
 1,2,4-Trichlorobenzene
 Concen: 16.826 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0726WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	95.4	47.9	143.8	
145	27.2	14.1	42.4	

Manual Integrations
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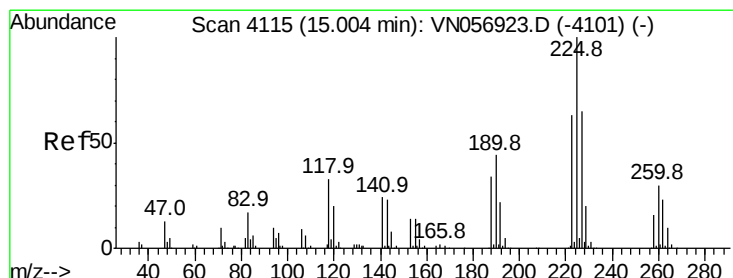
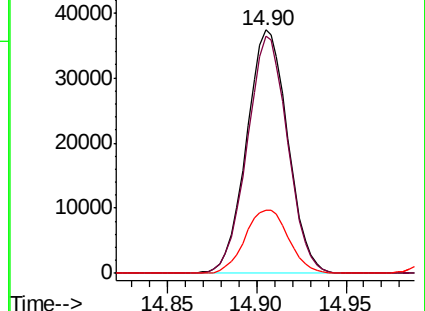
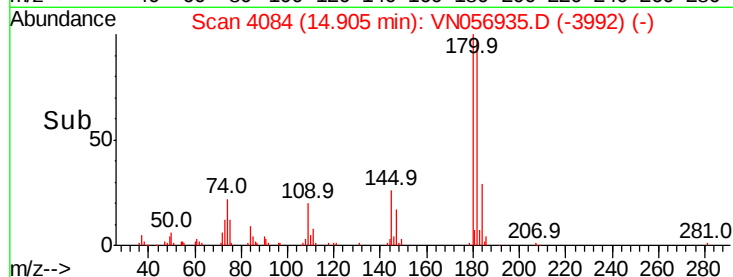


Abundance

Ion 179.80 (179.50 to 180.50): V

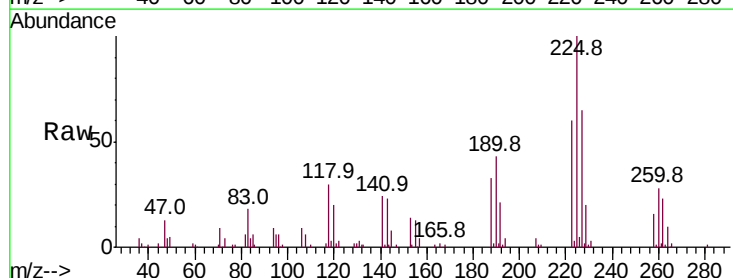
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 18.465 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. 0.00 min
 Lab File: VN056935.D
 Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	60.5	31.3	93.9	
227	64.8	31.9	95.7	

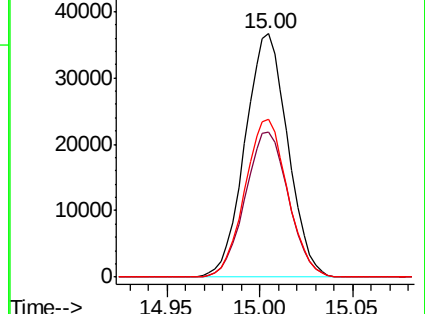
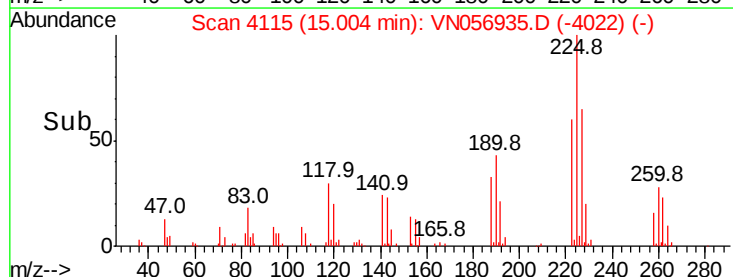


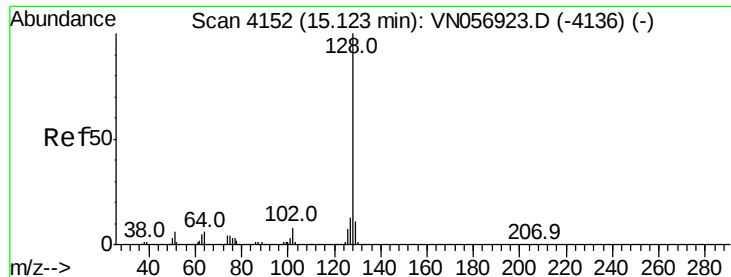
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





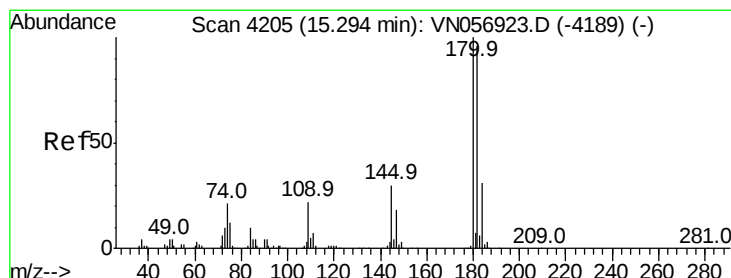
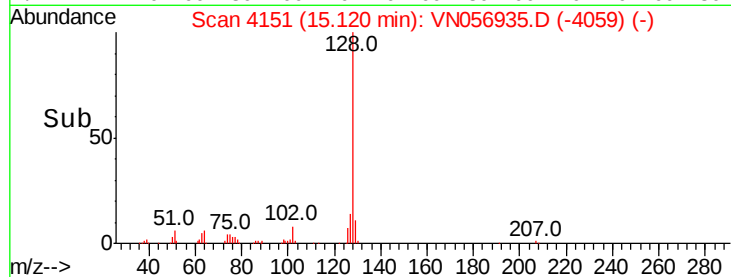
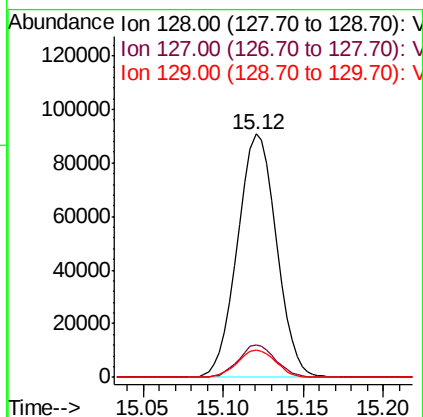
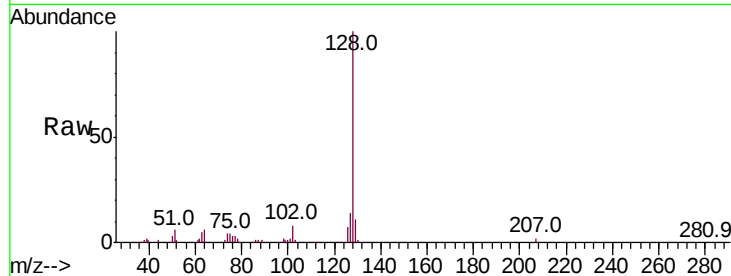
#95
Naphthalene
Concen: 16.854 ug/l
RT: 15.12 min Scan# 4151
Delta R.T. -0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Instrument :
MSVOA_N
ClientSampleId :
VN0726WBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.6	13.0

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#96
1,2,3-Trichlorobenzene
Concen: 16.960 ug/l
RT: 15.29 min Scan# 4205
Delta R.T. 0.00 min
Lab File: VN056935.D
Acq: 25 Jul 2019 21:37

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.5	48.4	145.3
145	31.1	15.1	45.3

