

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\
 Data File : VN059223.D
 Acq On : 14 Nov 2019 11:19
 Operator : JC/SP
 Sample : VN1114WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBS01

Manual Integrations
 APPROVED

MMDadoda
 11/15/2019 10:21:47 AM

Quant Time: Nov 15 06:49:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	366507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	574747	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	518741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	234992	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	225868	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
35) Dibromofluoromethane	7.57	113	177887	51.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.66%	
50) Toluene-d8	10.08	98	656792	48.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.18%	
62) 4-Bromofluorobenzene	12.40	95	232414	47.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.38%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.84	85	64092	17.356	ug/l	99
3) Chloromethane	2.04	50	86100	17.153	ug/l	99
4) Vinyl Chloride	2.17	62	85373	17.543	ug/l	100
5) Bromomethane	2.55	94	51703	18.462	ug/l	100
6) Chloroethane	2.68	64	51278	17.812	ug/l	97
7) Trichlorofluoromethane	3.00	101	110388	18.964	ug/l	100
8) Diethyl Ether	3.39	74	44584	18.850	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	68224	19.438	ug/l	99
10) Methyl Iodide	3.93	142	78064	17.969	ug/l	99
11) Tert butyl alcohol	4.76	59	90866	105.828	ug/l	100
12) 1,1-Dichloroethene	3.72	96	62389	18.248	ug/l	95
13) Acrolein	3.59	56	21309	48.136	ug/l	93
14) Allyl chloride	4.30	41	127837	18.203	ug/l	99
15) Acrylonitrile	4.96	53	225037	105.315	ug/l	99
16) Acetone	3.79	43	193109	82.425	ug/l	98
17) Carbon Disulfide	4.03	76	170902	16.103	ug/l	100
18) Methyl Acetate	4.30	43	121765	21.896	ug/l	99
19) Methyl tert-butyl Ether	5.01	73	228193	19.386	ug/l	100
20) Methylene Chloride	4.53	84	77910	19.088	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	67419	18.371	ug/l	98
22) Diisopropyl ether	5.93	45	254365	19.175	ug/l	94
23) Vinyl Acetate	5.87	43	1053256	102.448	ug/l	99
24) 1,1-Dichloroethane	5.82	63	143355	19.349	ug/l	100
25) 2-Butanone	6.81	43	299508	96.999	ug/l	99
26) 2,2-Dichloropropane	6.80	77	120779	18.643	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	80730	18.961	ug/l	99
28) Bromochloromethane	7.18	49	41994	18.839	ug/l	100
29) Tetrahydrofuran	7.19	42	200335	102.110	ug/l	98
30) Chloroform	7.35	83	139859	19.678	ug/l	97
31) Cyclohexane	7.63	56	118883	16.949	ug/l	# 94
32) 1,1,1-Trichloroethane	7.55	97	116416	19.482	ug/l	99
36) 1,1-Dichloropropene	7.77	75	97700	18.186	ug/l	100
37) Ethyl Acetate	6.90	43	121721	20.367	ug/l	98
38) Carbon Tetrachloride	7.75	117	100456	18.787	ug/l	99

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 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	108192	17.353	ug/l	98
40) Benzene	8.02	78	306495	18.946	ug/l	99
41) Methacrylonitrile	7.15	41	47453m	18.260	ug/l	
42) 1,2-Dichloroethane	8.11	62	108998	19.645	ug/l	99
43) Isopropyl Acetate	8.15	43	183266	19.235	ug/l	99
44) Trichloroethene	8.82	130	74053	18.622	ug/l	98
45) 1,2-Dichloropropane	9.10	63	83776	19.065	ug/l	100
46) Dibromomethane	9.19	93	54312	19.835	ug/l	98
47) Bromodichloromethane	9.39	83	106860	19.544	ug/l	97
48) Methyl methacrylate	9.19	41	81715	19.174	ug/l	100
49) 1,4-Dioxane	9.19	88	32168	424.724	ug/l	99
51) 4-Methyl-2-Pentanone	9.98	43	603703	111.981	ug/l	99
52) Toluene	10.15	92	181261	18.694	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	117955	18.673	ug/l	99
54) cis-1,3-Dichloropropene	9.83	75	126171	18.568	ug/l	98
55) 1,1,2-Trichloroethane	10.55	97	76899	19.596	ug/l	100
56) Ethyl methacrylate	10.42	69	109846	18.027	ug/l	99
57) 1,3-Dichloropropane	10.70	76	132160	19.568	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.68	63	106199	48.628	ug/l	98
59) 2-Hexanone	10.74	43	439887	106.306	ug/l	98
60) Dibromochloromethane	10.90	129	81992	19.762	ug/l	100
61) 1,2-Dibromoethane	11.00	107	78042	19.645	ug/l	99
64) Tetrachloroethene	10.63	164	65556	18.585	ug/l	97
65) Chlorobenzene	11.43	112	193314	19.117	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.51	131	75492	19.901	ug/l	99
67) Ethyl Benzene	11.51	91	340921	19.002	ug/l	99
68) m/p-Xylenes	11.62	106	250653	37.296	ug/l	99
69) o-Xylene	11.95	106	120607	18.570	ug/l	99
70) Styrene	11.96	104	190653	18.665	ug/l	100
71) Bromoform	12.13	173	58332	19.769	ug/l #	99
73) Isopropylbenzene	12.25	105	327477	19.158	ug/l	100
74) N-amyl acetate	12.07	43	136159	18.798	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.50	83	122403	21.027	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	106528m	19.912	ug/l	
77) Bromobenzene	12.53	156	81273	18.925	ug/l	100
78) n-propylbenzene	12.59	91	371389	18.976	ug/l	100
79) 2-Chlorotoluene	12.67	91	229179	18.876	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	274552	18.955	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	39392	19.448	ug/l	99
82) 4-Chlorotoluene	12.77	91	232734	19.112	ug/l	100
83) tert-Butylbenzene	12.99	119	234426	18.742	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	269846	19.256	ug/l	98
85) sec-Butylbenzene	13.17	105	308900	18.989	ug/l	100
86) p-Isopropyltoluene	13.29	119	274126	19.085	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	138922	18.890	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	136861	18.600	ug/l	99
89) n-Butylbenzene	13.62	91	220681	17.554	ug/l	99
90) Hexachloroethane	13.88	117	55868	19.370	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	141941	19.621	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	24100	20.767	ug/l	99

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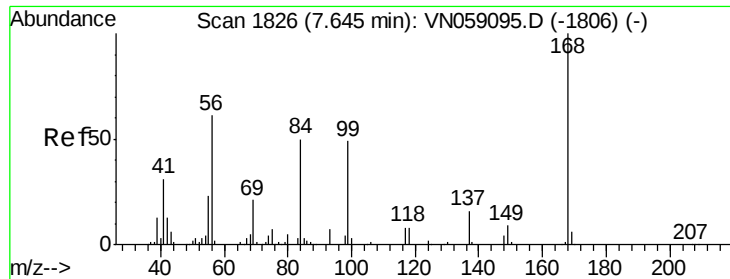
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	68270	17.653	ug/l	99
94) Hexachlorobutadiene	15.01	225	47241	18.939	ug/l	99
95) Naphthalene	15.13	128	189120	17.630	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	73015	18.010	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion:168 Resp: 366507

Ion Ratio Lower Upper

168 100

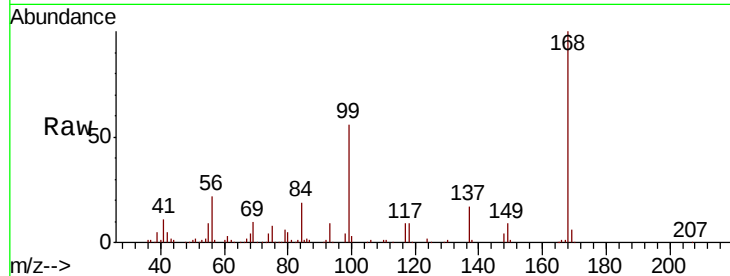
99 55.3 45.7 68.5

Manual Integrations

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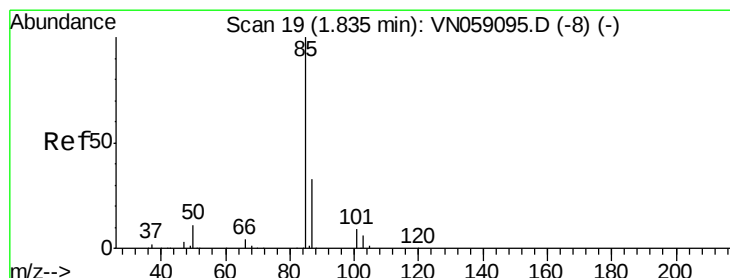
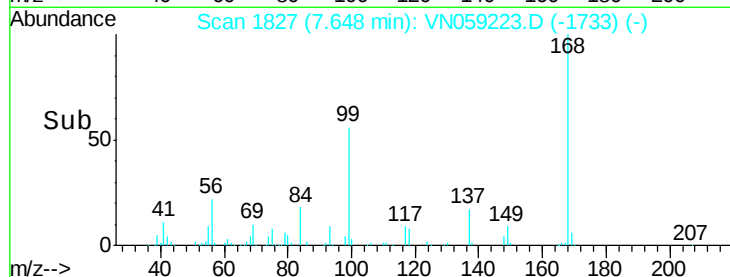
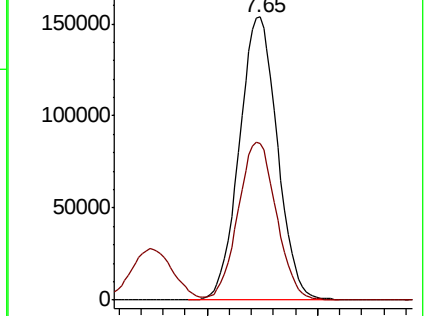
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 17.356 ug/l

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN059223.D

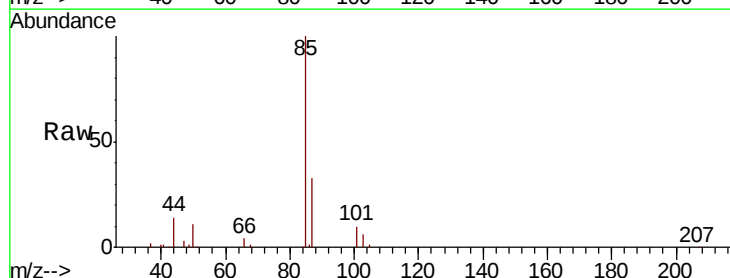
Acq: 14 Nov 2019 11:19

Tgt Ion: 85 Resp: 64092

Ion Ratio Lower Upper

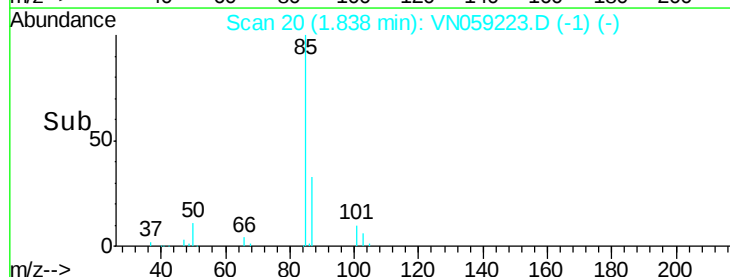
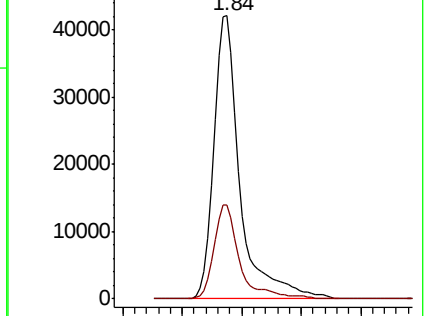
85 100

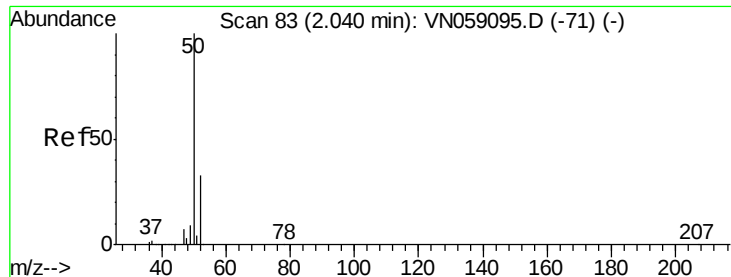
87 33.2 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 17.153 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion: 50 Resp: 86100

Ion Ratio Lower Upper

50 100

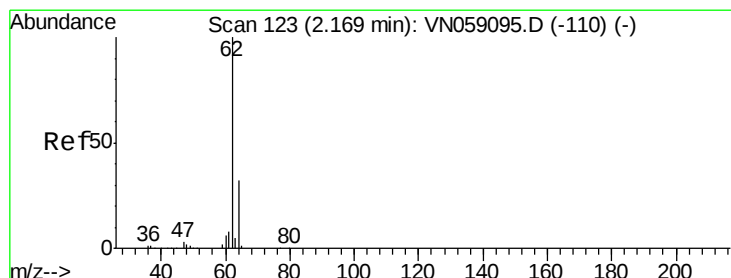
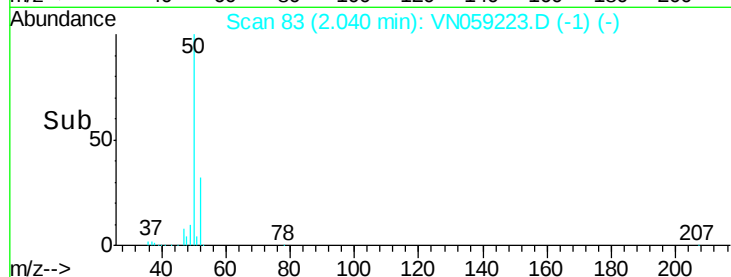
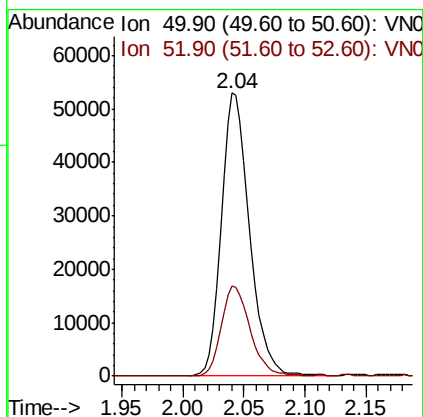
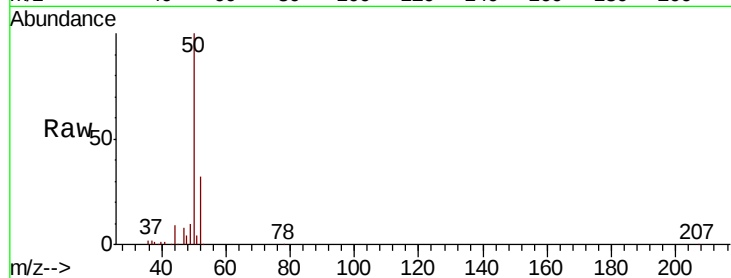
52 31.7 26.0 39.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 17.543 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059223.D

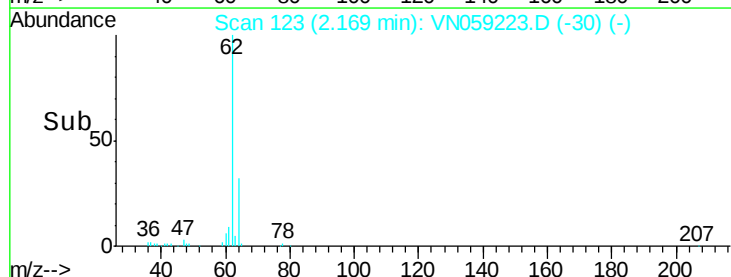
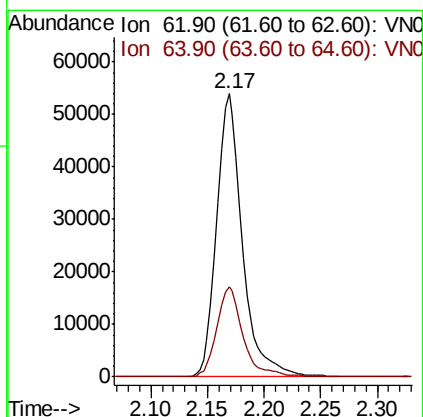
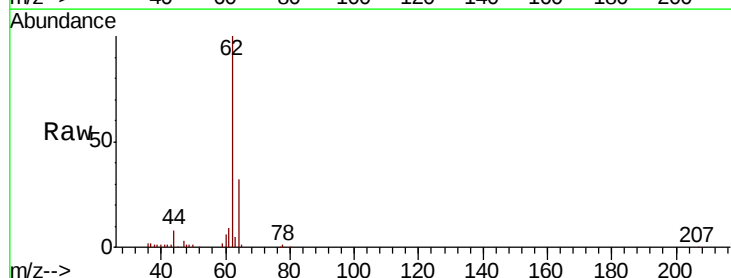
Acq: 14 Nov 2019 11:19

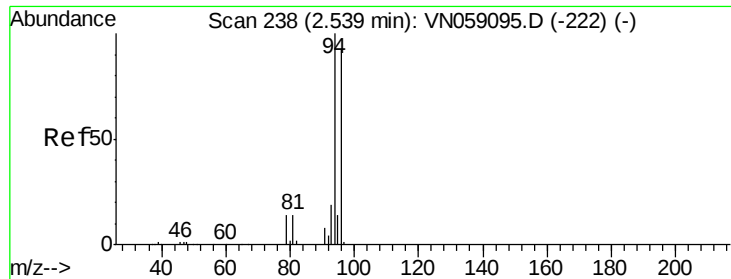
Tgt Ion: 62 Resp: 85373

Ion Ratio Lower Upper

62 100

64 31.9 25.4 38.2





#5

Bromomethane

Concen: 18.462 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion: 94 Resp: 51703

Ion Ratio Lower Upper

94 100

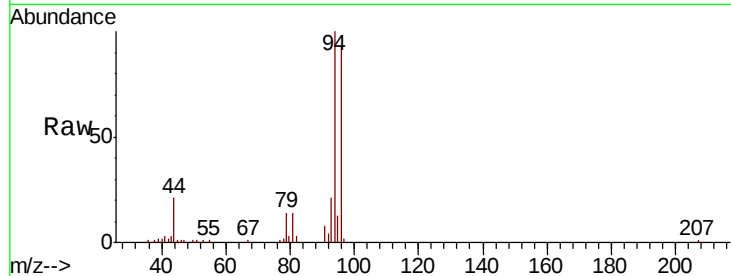
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Manual Integrations

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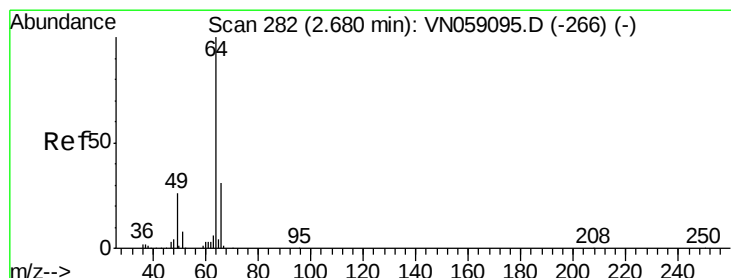
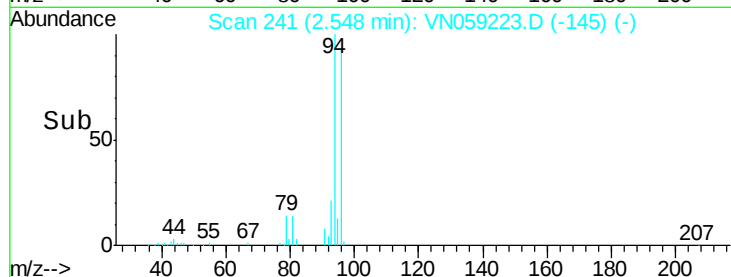
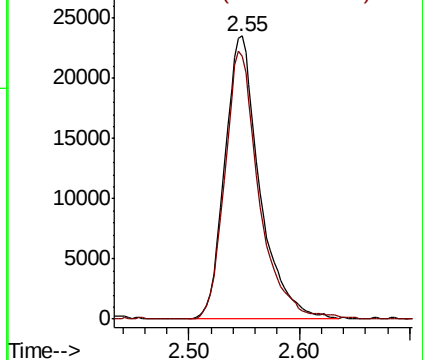
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 17.812 ug/l

RT: 2.68 min Scan# 283

Delta R.T. 0.00 min

Lab File: VN059223.D

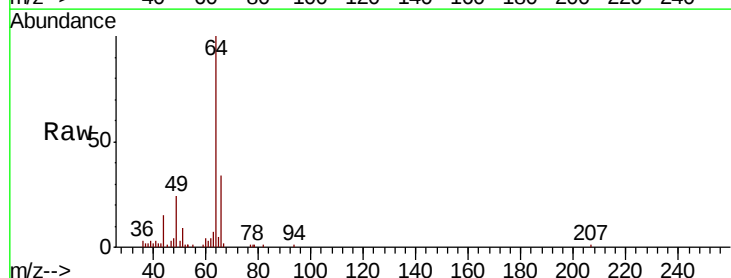
Acq: 14 Nov 2019 11:19

Tgt Ion: 64 Resp: 51278

Ion Ratio Lower Upper

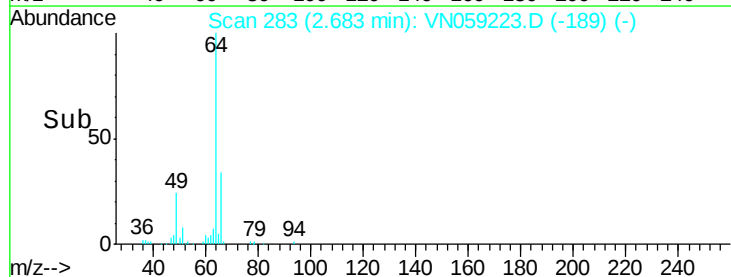
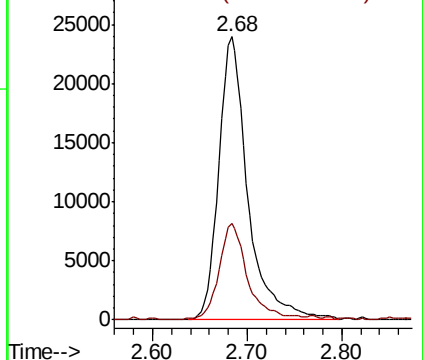
64 100

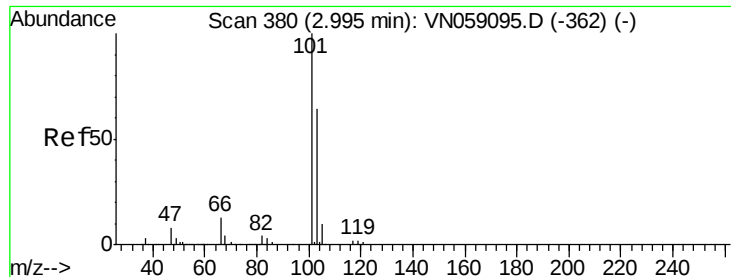
66 33.4 25.2 37.8



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

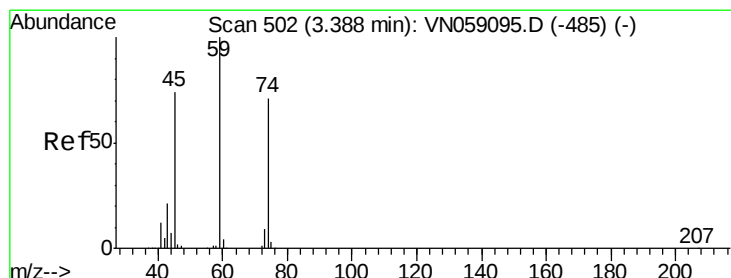
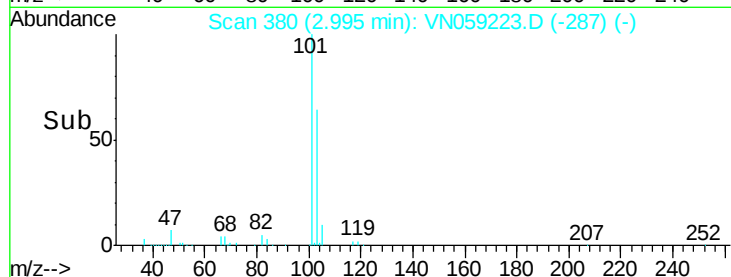
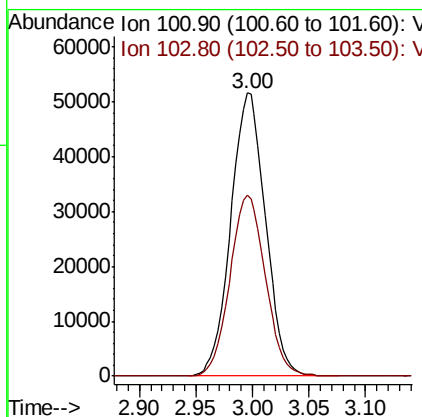
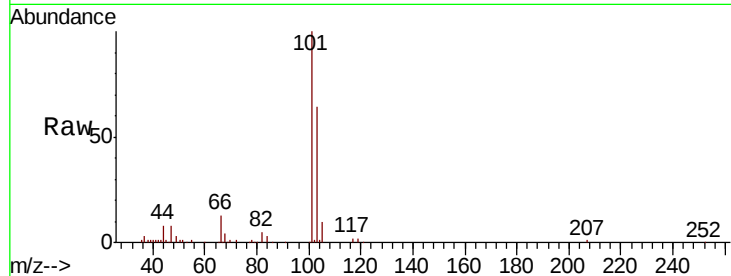
Trichlorofluoromethane
 Concen: 18.964 ug/l
 RT: 3.00 min Scan# 380
 Delta R.T. -0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Instrument :
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 VN1114WBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.2	76.8

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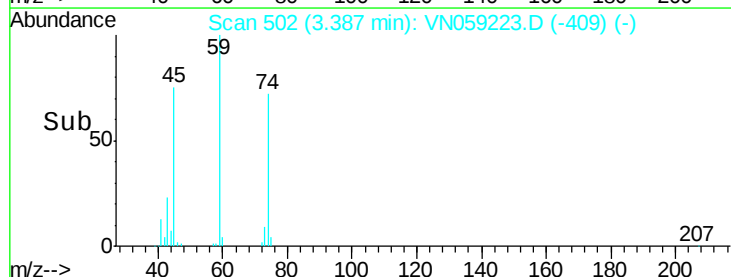
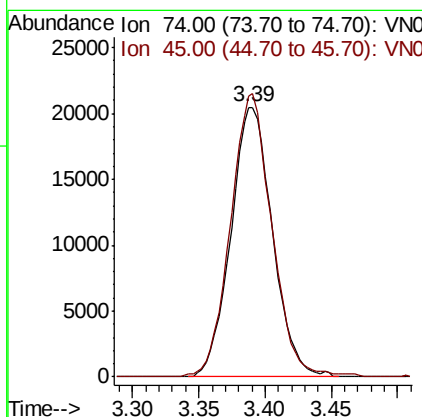
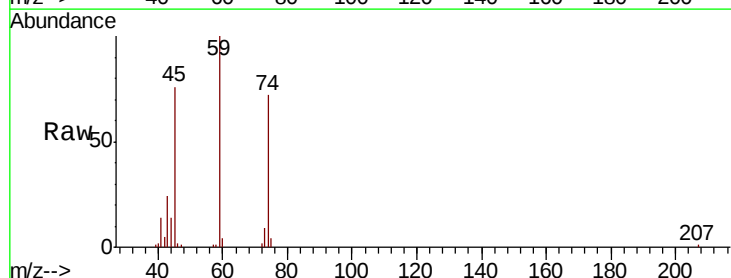
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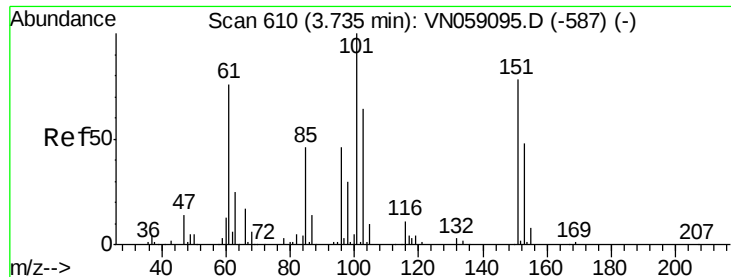


#8

Diethyl Ether
 Concen: 18.850 ug/l
 RT: 3.39 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
74	100		
45	104.0	51.6	154.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.438 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

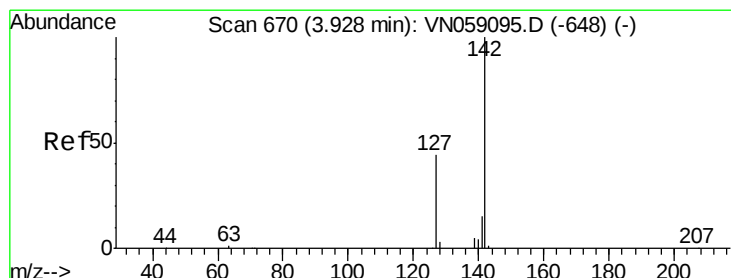
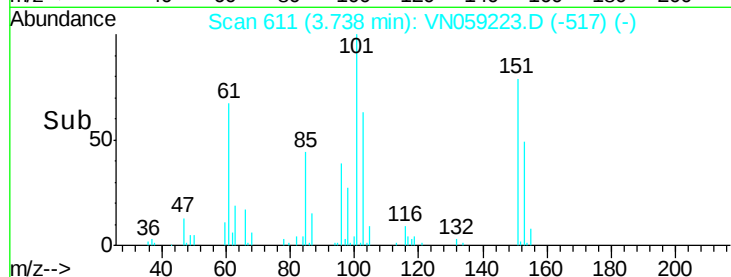
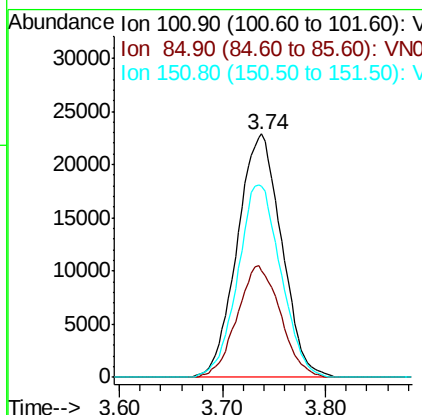
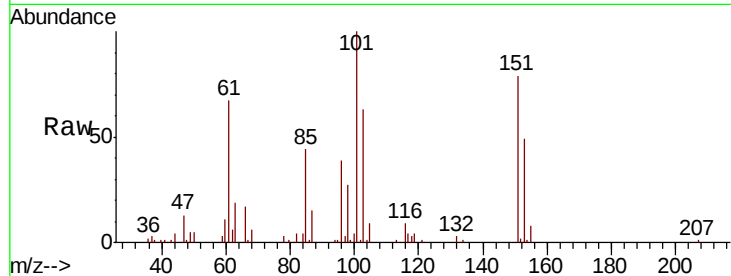
ClientSampleId :

VN1114WBS01

Tot Ion:	101	Resp:	68224
Ion Ratio	Lower	Upper	
101	100		
85	44.8	35.5	53.3
151	76.9	62.2	93.2

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#10

Methyl Iodide

Concen: 17.969 ug/l

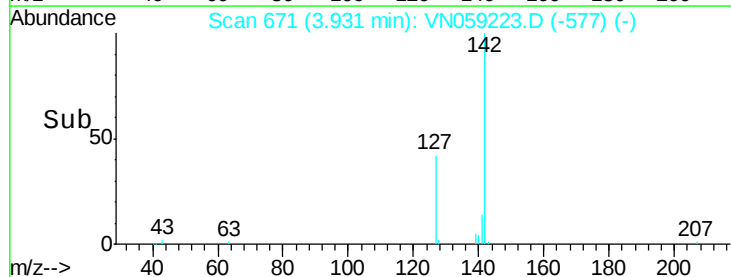
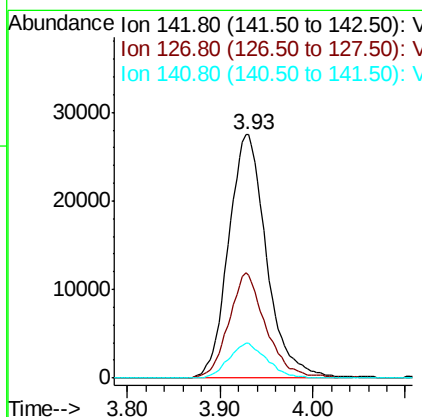
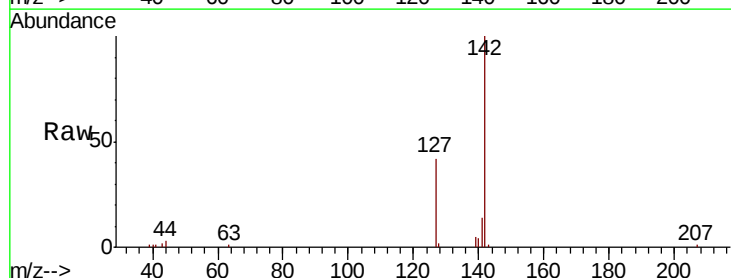
RT: 3.93 min Scan# 671

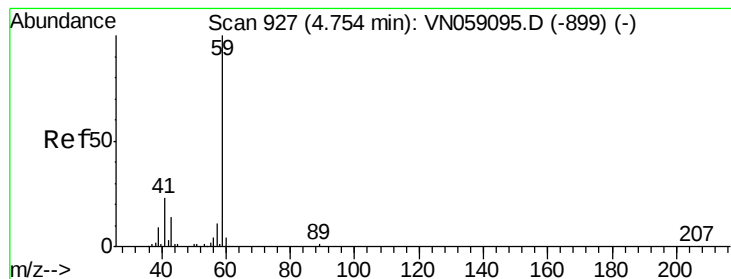
Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Tgt Ion:	142	Resp:	78064
Ion Ratio	Lower	Upper	
142	100		
127	41.6	34.2	51.2
141	14.2	11.4	17.0





#11

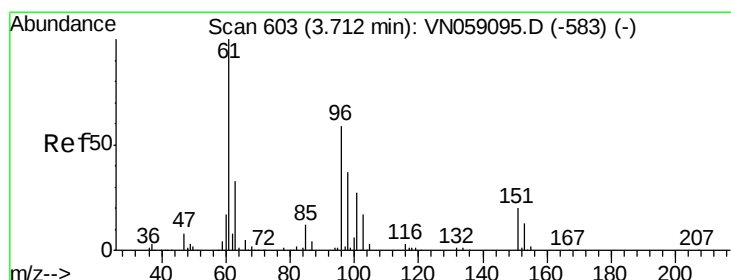
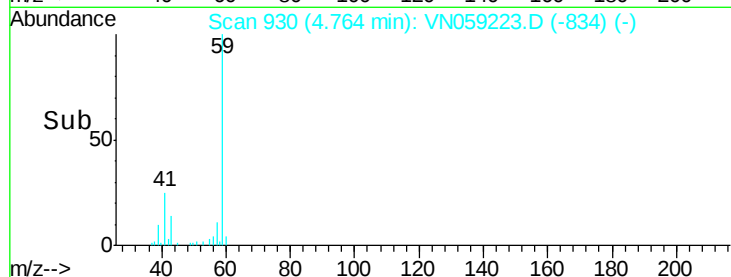
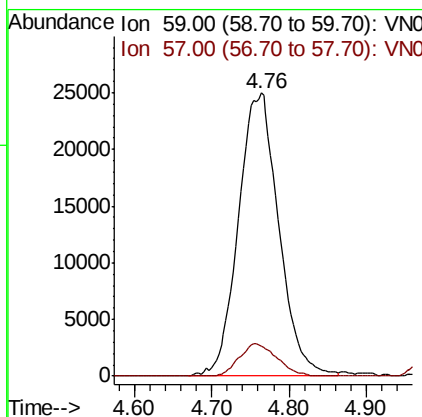
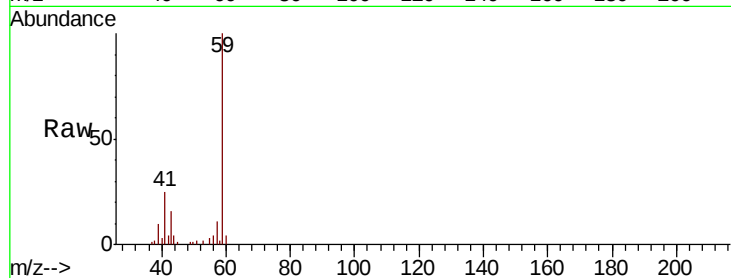
Tert butyl alcohol
 Concen: 105.828 ug/l
 RT: 4.76 min Scan# 930
 Delta R.T. 0.01 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.3	12.5

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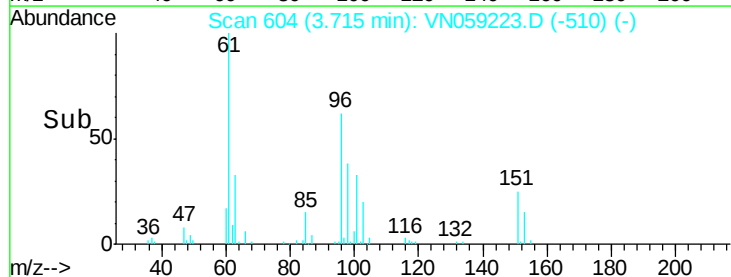
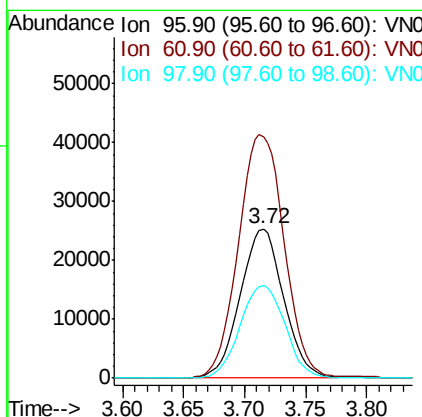
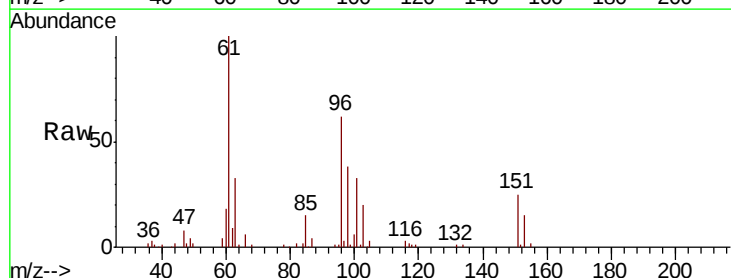
MMDadoda
 11/15/2019 10:21:47 AM

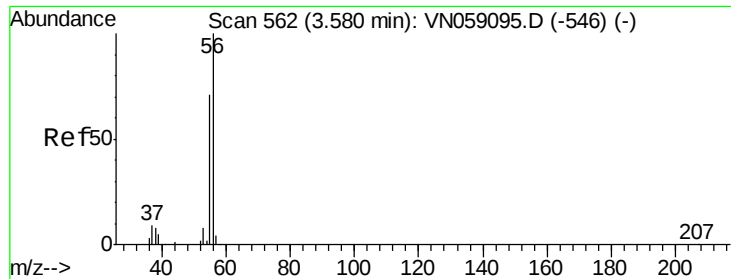


#12

1,1-Dichloroethene
 Concen: 18.248 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.6	136.5	204.7
98	61.8	50.2	75.4





#13

Acrolein

Concen: 48.136 ug/l

RT: 3.59 min Scan# 565

Delta R.T. 0.01 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion: 56 Resp: 21309

Ion Ratio Lower Upper

56 100

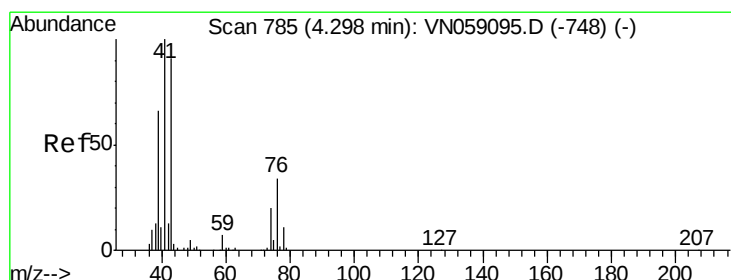
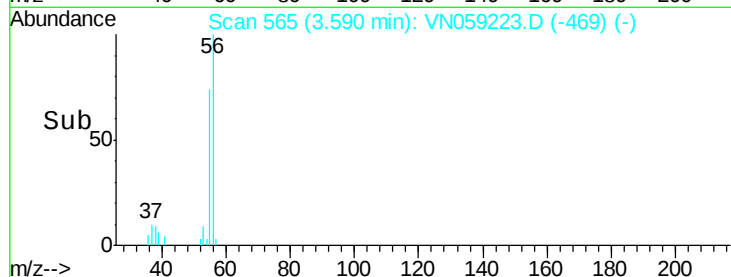
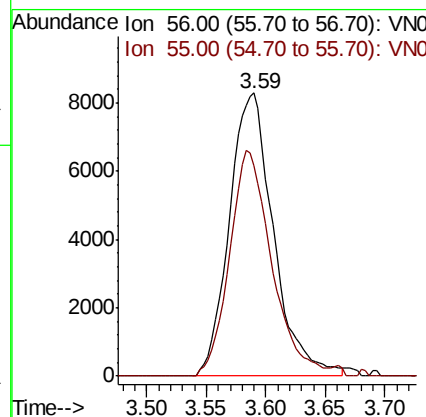
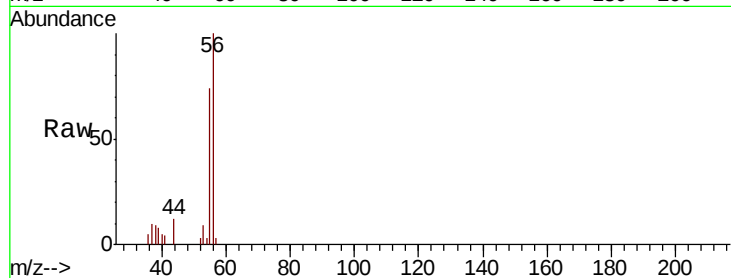
55 76.1 56.4 84.6

Manual Integrations

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#14

Allyl chloride

Concen: 18.203 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

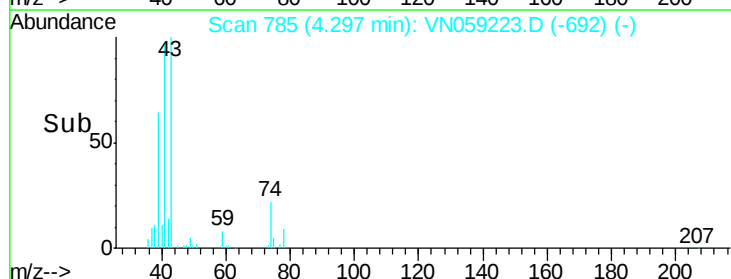
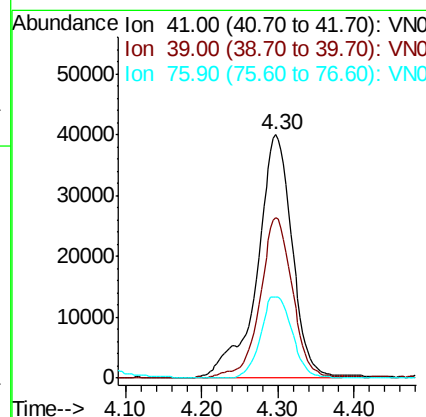
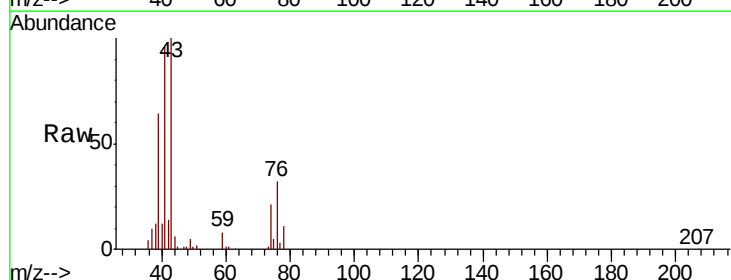
Tgt Ion: 41 Resp: 127837

Ion Ratio Lower Upper

41 100

39 61.0 49.1 73.7

76 30.2 24.9 37.3





#15

Acrylonitrile

Concen: 105.315 ug/l

RT: 4.96 min Scan# 990

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

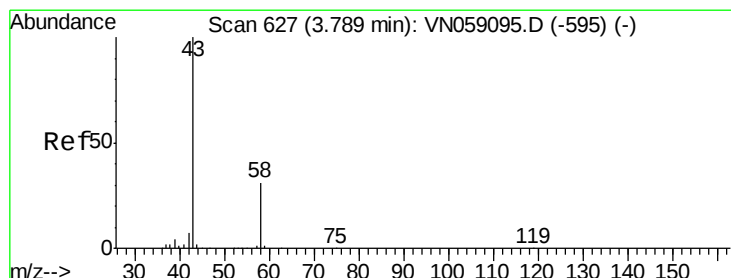
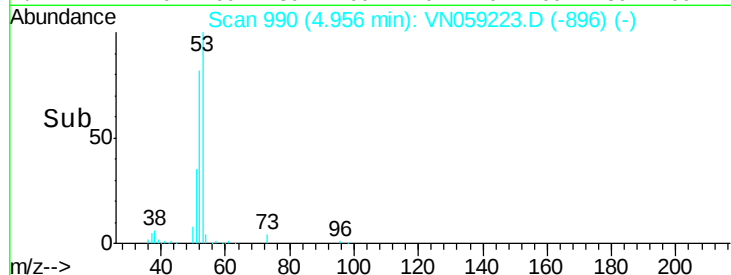
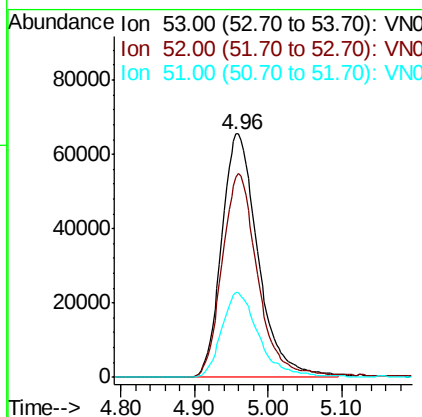
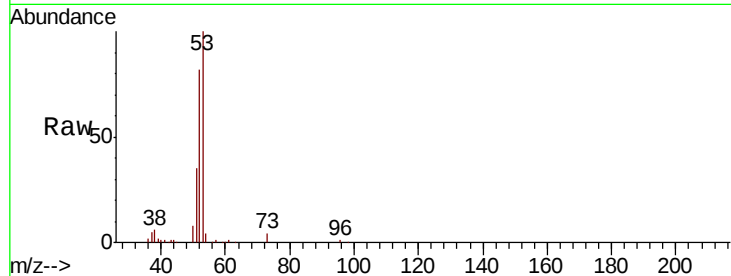
ClientSampleId :

VN1114WBS01

Tot Ion:	53	Resp:	225037
Ion Ratio	Lower	Upper	
53	100		
52	82.1	65.0	97.6
51	36.0	28.0	42.0

Manual Integrations
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#16

Acetone

Concen: 82.425 ug/l

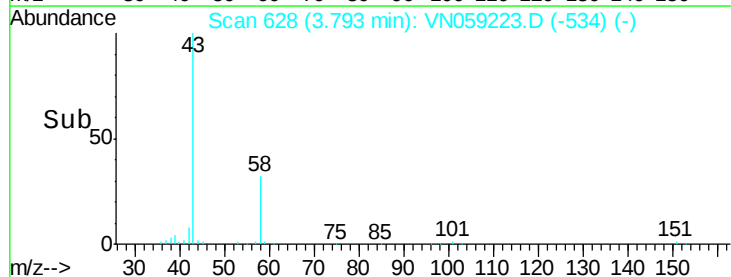
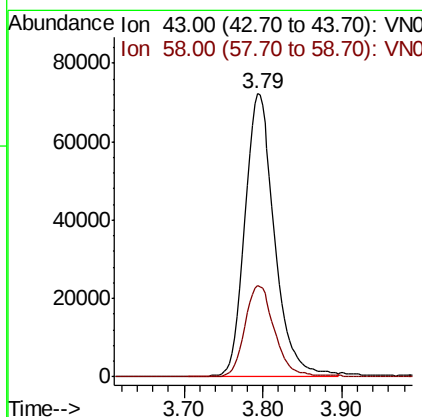
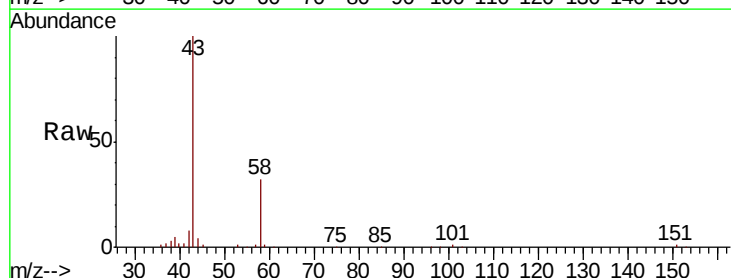
RT: 3.79 min Scan# 628

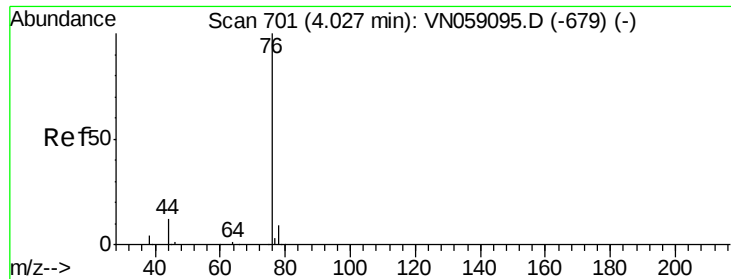
Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Tgt Ion:	43	Resp:	193109
Ion Ratio	Lower	Upper	
43	100		
58	32.1	24.9	37.3





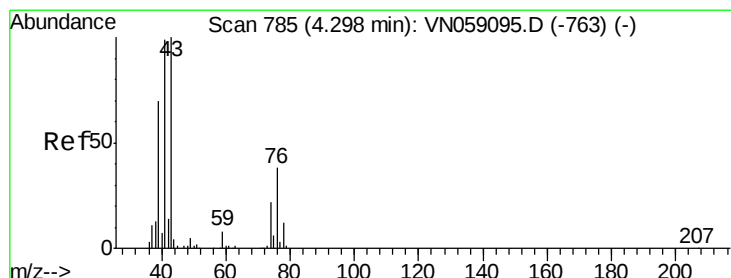
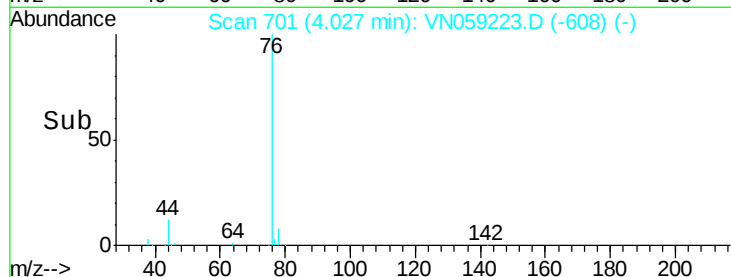
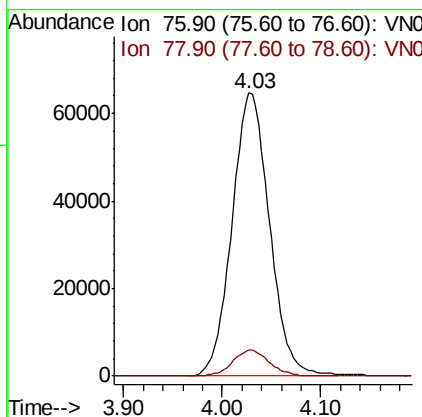
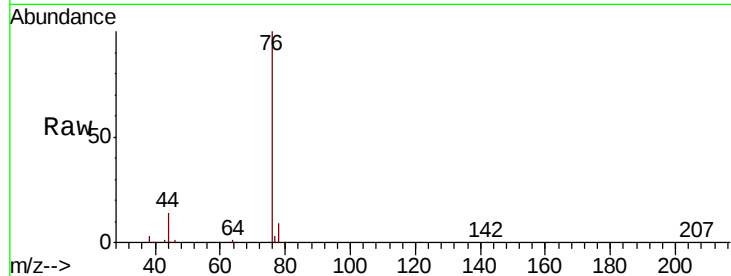
#17
Carbon Disulfide
Concen: 16.103 ug/l
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.4	11.0

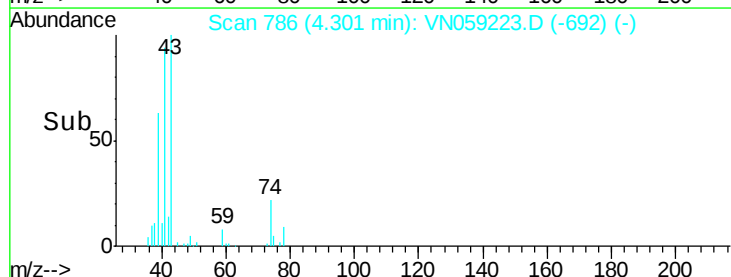
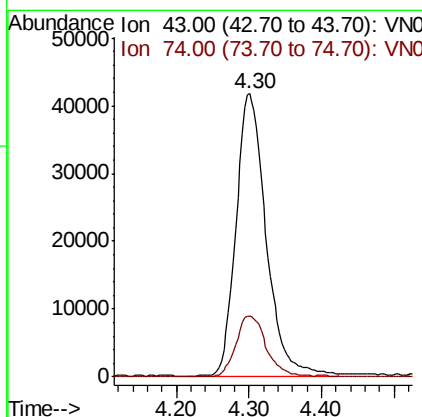
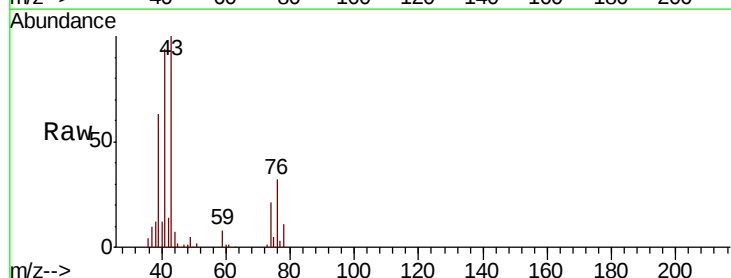
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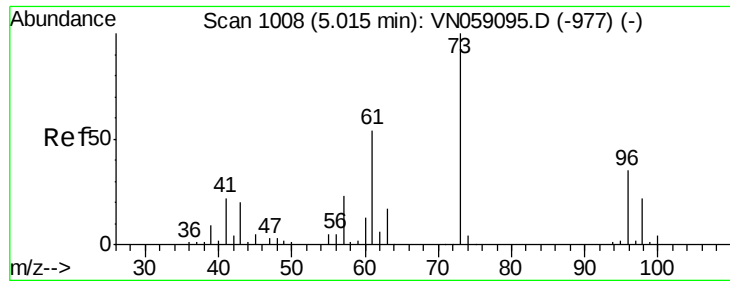
MMDadoda
11/15/2019 10:21:47 AM



#18
Methyl Acetate
Concen: 21.896 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.6	17.8	26.8





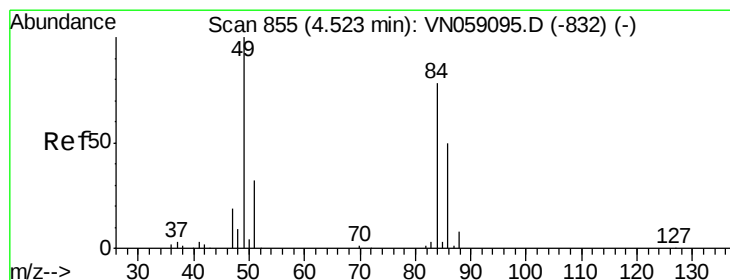
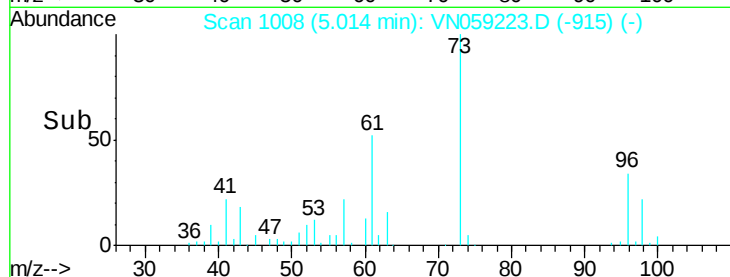
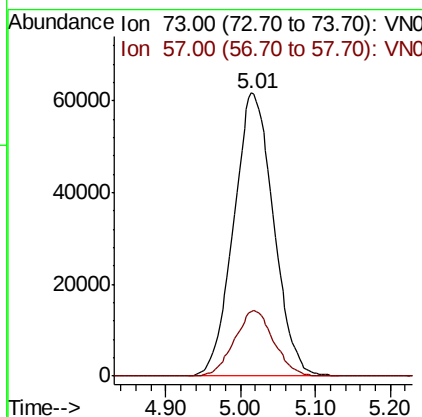
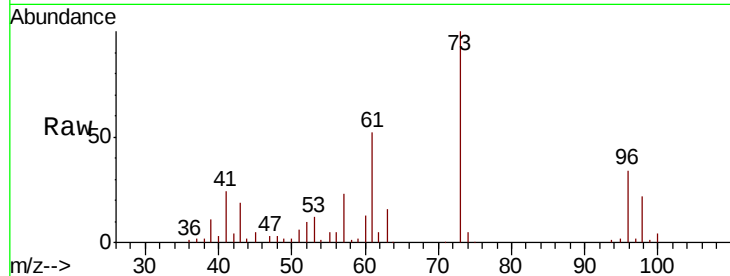
#19
Methvl tert-butvl Ether
Concen: 19.386 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion: 73 Resp: 228193
Ion Ratio Lower Upper
73 100
57 22.8 18.4 27.6

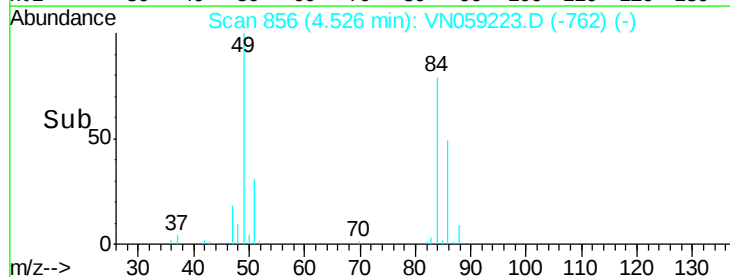
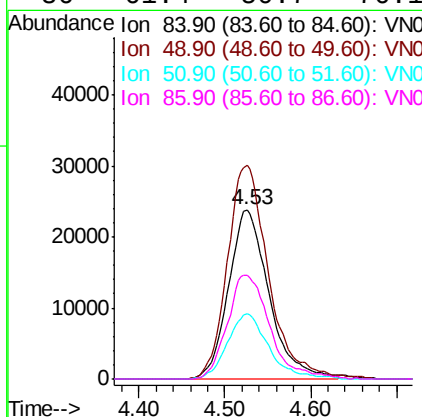
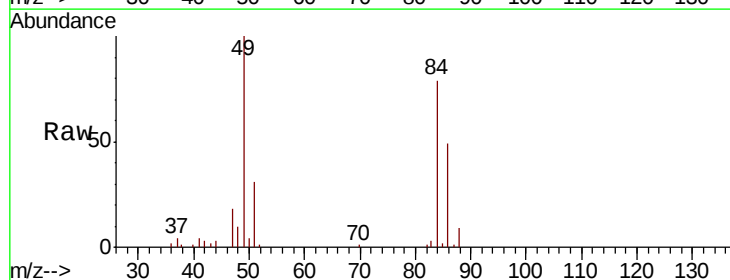
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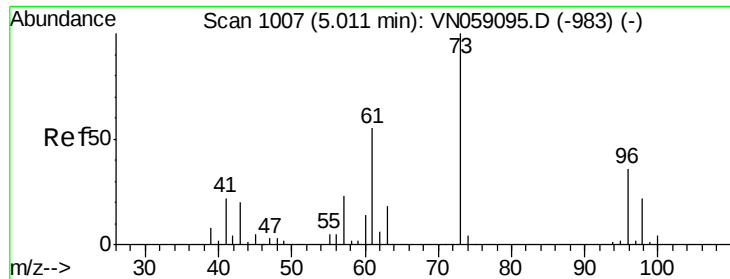
MMDadoda
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#20
Methylene Chloride
Concen: 19.088 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion: 84 Resp: 77910
Ion Ratio Lower Upper
84 100
49 126.1 102.0 153.0
51 38.6 32.2 48.2
86 61.4 50.7 76.1





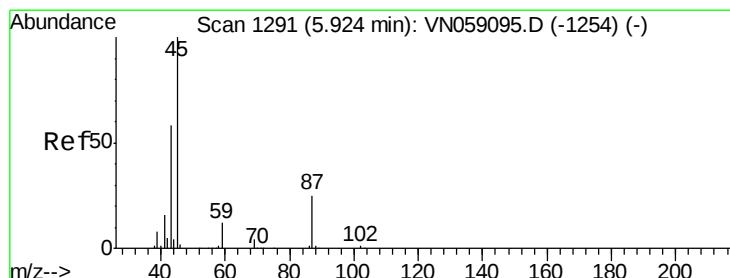
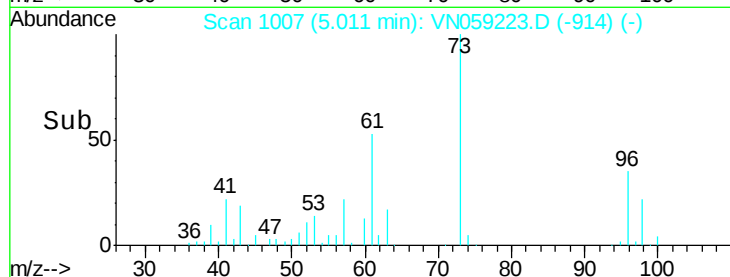
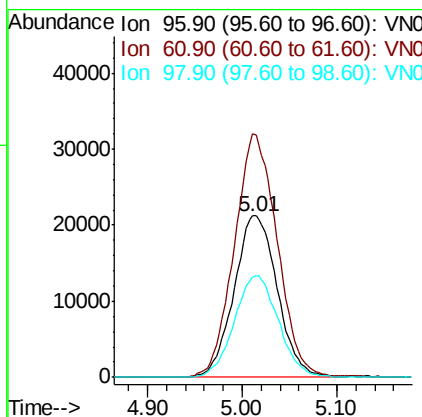
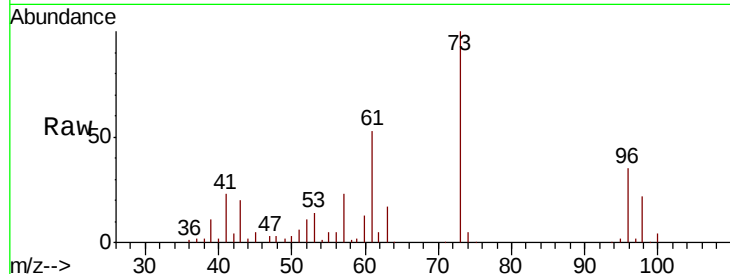
#21
trans-1,2-Dichloroethene
Concen: 18.371 ug/l
RT: 5.01 min Scan# 1007
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	150.7	122.6	183.8
98	61.9	50.3	75.5

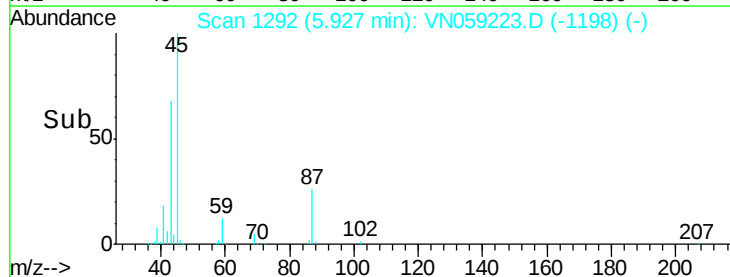
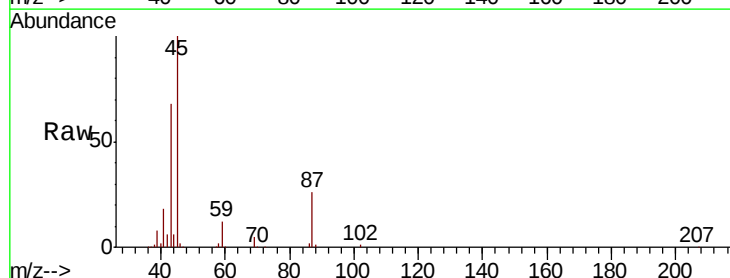
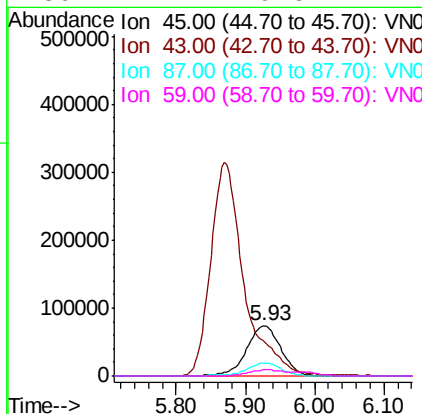
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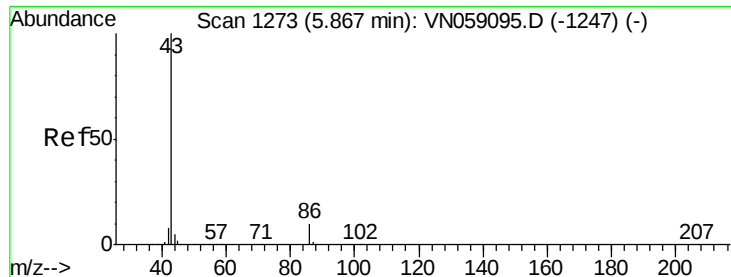
MMDadoda
11/15/2019 10:21:47 AM



#22
Diisopropyl ether
Concen: 19.175 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
45	100		
43	66.1	46.7	70.1
87	25.7	20.5	30.7
59	12.1	9.6	14.4





#23

Vinyl Acetate

Concen: 102.448 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion: 43 Resp: 1053256

Ion Ratio Lower Upper

43 100

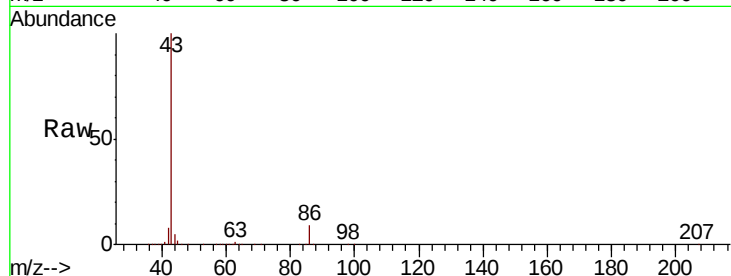
86 9.2 7.7 11.5

Manual Integrations

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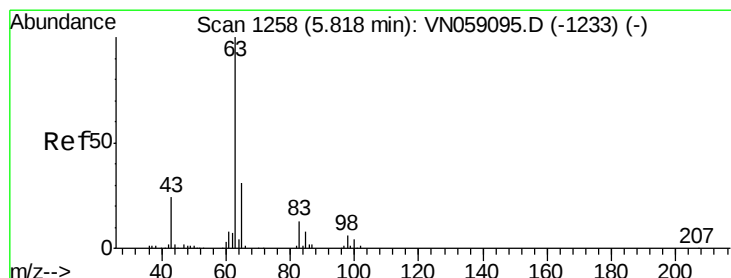
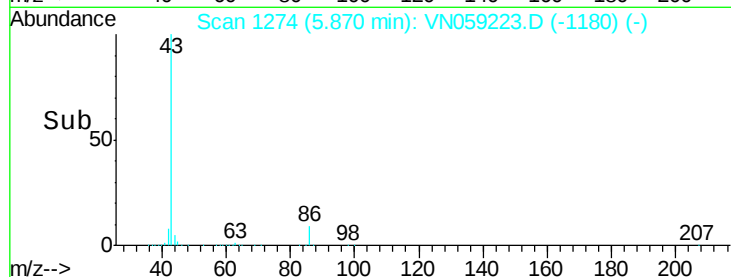
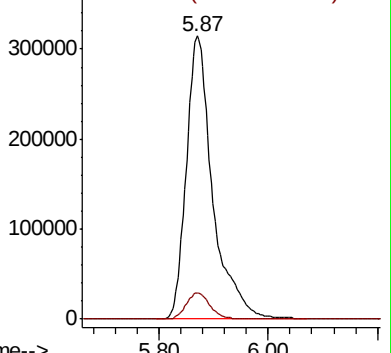
MMDadoda

11/15/2019 10:21:47 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#24

1,1-Dichloroethane

Concen: 19.349 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

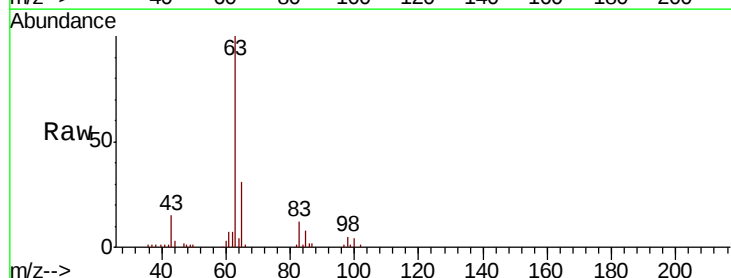
Tgt Ion: 63 Resp: 143355

Ion Ratio Lower Upper

63 100

98 5.4 2.8 8.4

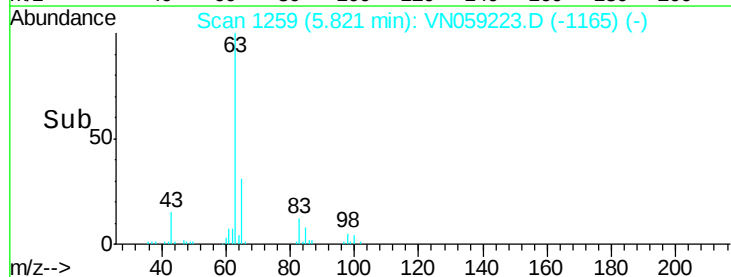
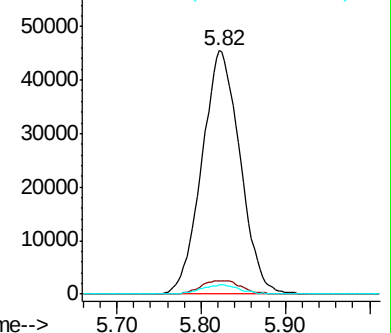
100 3.7 1.9 5.7



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0





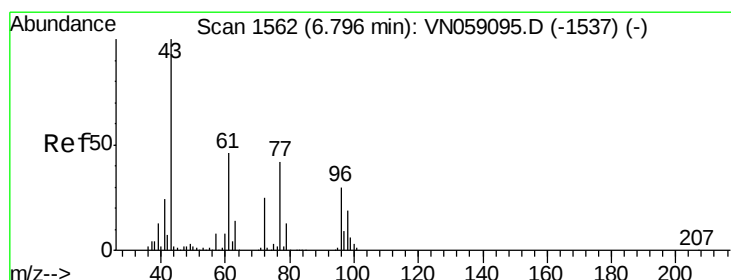
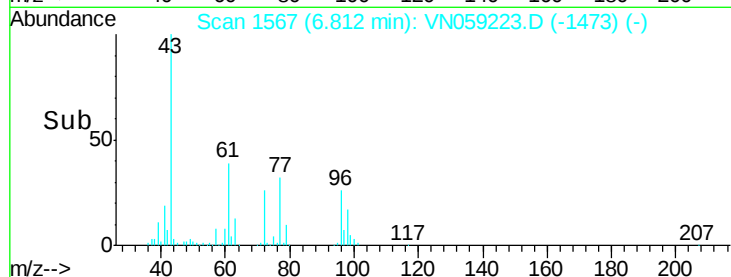
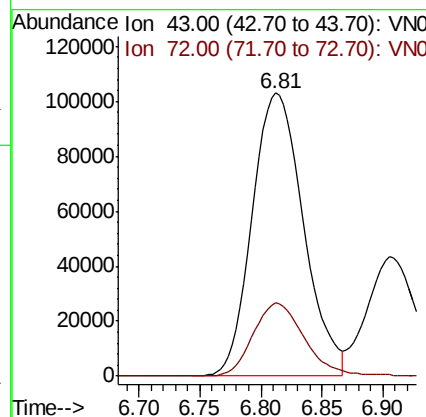
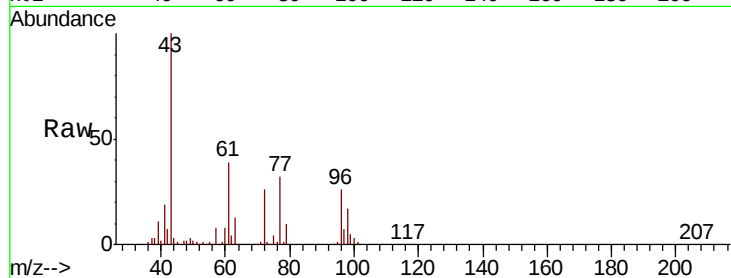
#25
2-Butanone
Concen: 96.999 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
72	25.9	20.3	30.5

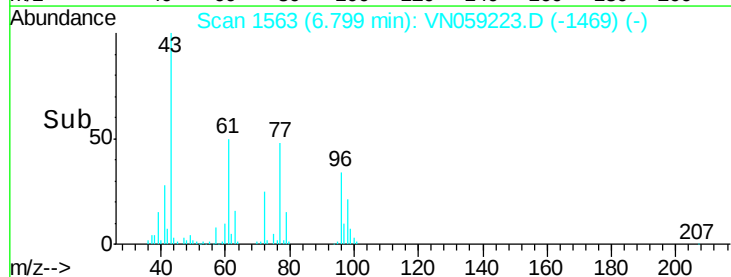
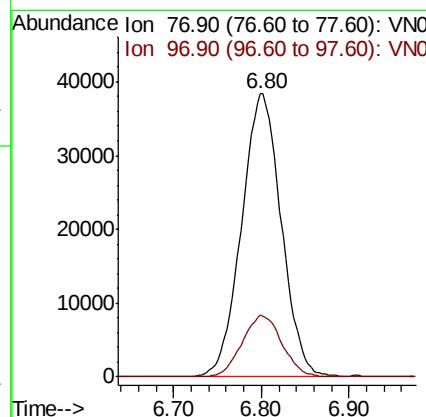
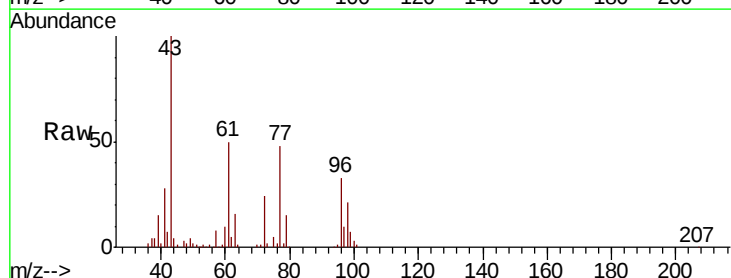
Manual Integrations
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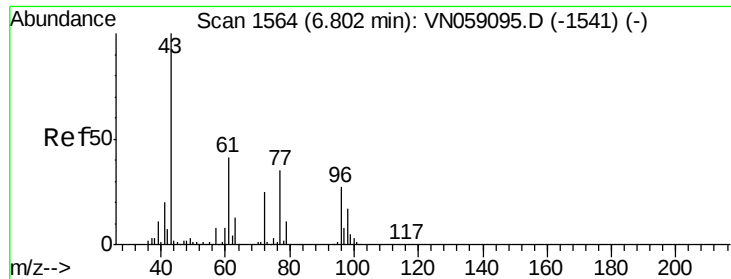
MMDadoda
11/15/2019 10:21:47 AM



#26
2,2-Dichloropropane
Concen: 18.643 ug/l
RT: 6.80 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
77	100		
97	21.7	11.2	33.6





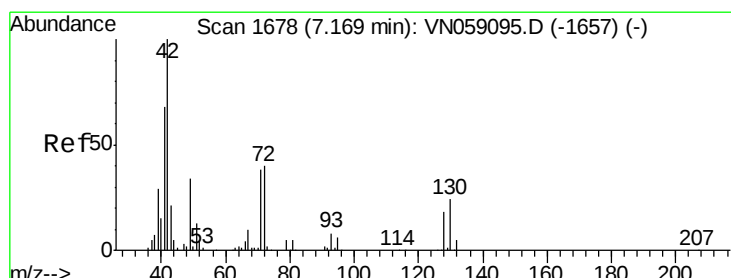
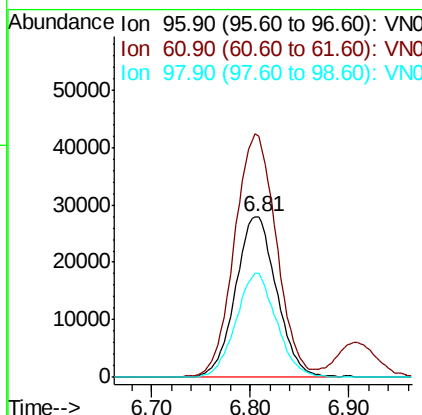
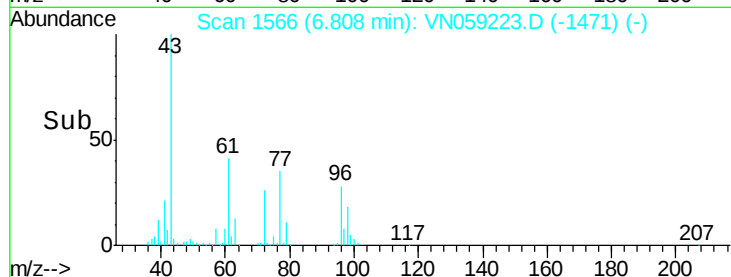
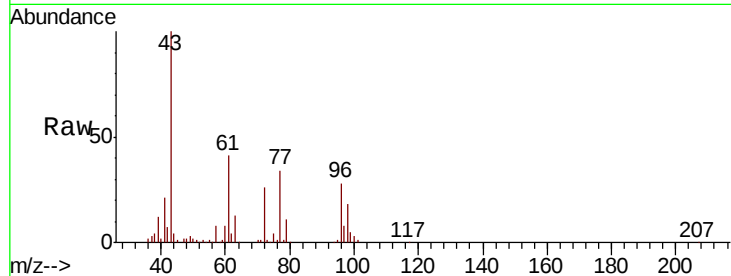
#27
 cis-1,2-Dichloroethene
 Concen: 18.961 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. 0.01 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBS01

Tot Ion	Ratio	Resp	Lower	Upper
96	100	80730		
61	154.1		0.0	311.6
98	63.7		0.0	129.8

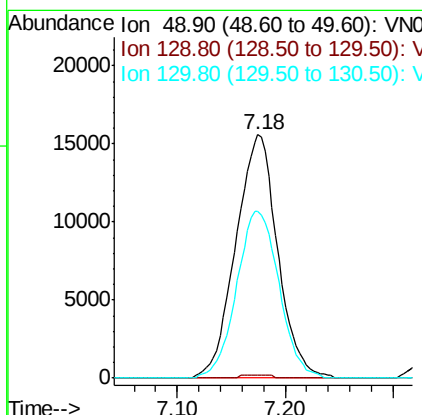
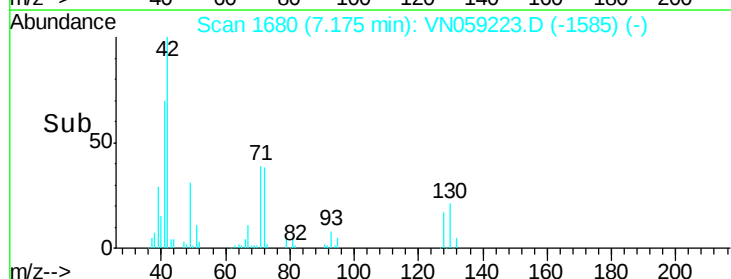
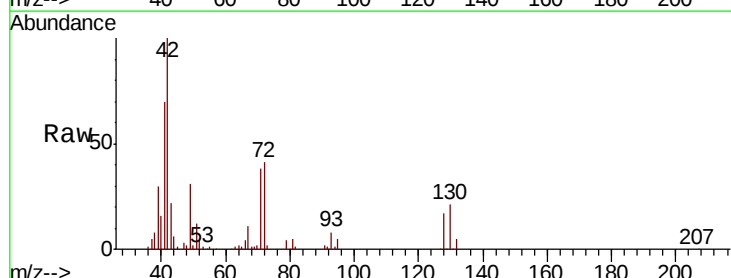
Manual Integrations
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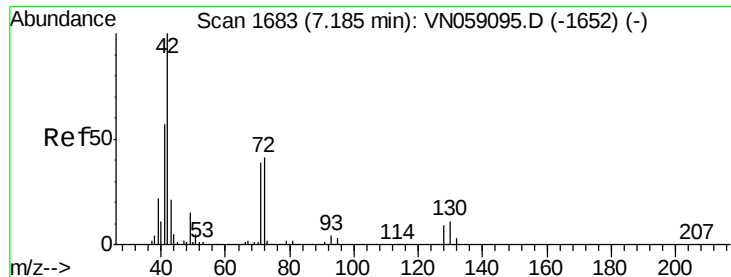
MMDadoda
 11/15/2019 10:21:47 AM



#28
 Bromochloromethane
 Concen: 18.839 ug/l
 RT: 7.18 min Scan# 1680
 Delta R.T. 0.01 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	41994		
129	0.9		0.0	3.8
130	69.5		55.6	83.4





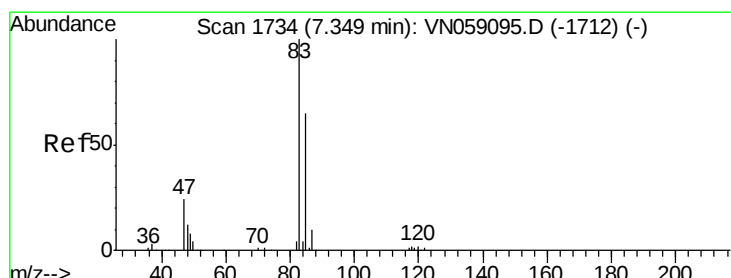
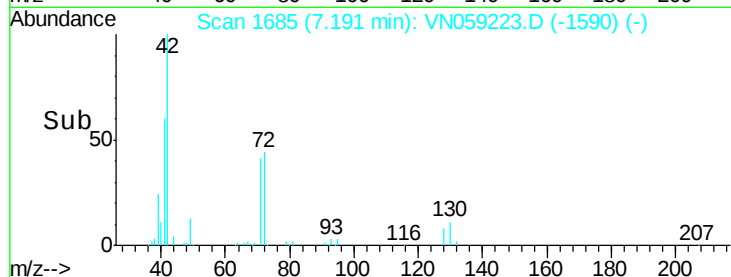
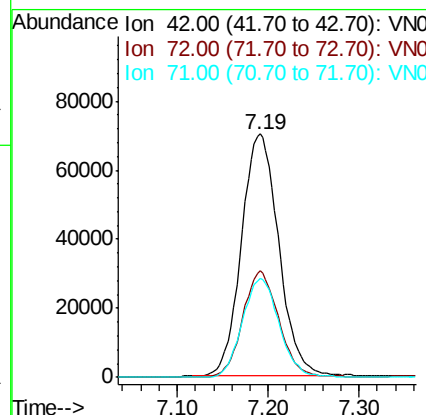
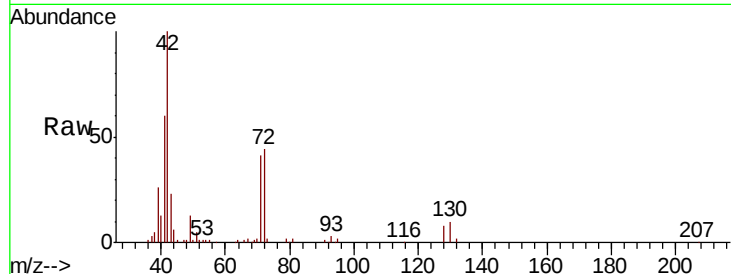
#29
Tetrahydrofuran
Concen: 102.110 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.7	33.1	49.7
71	40.3	30.9	46.3

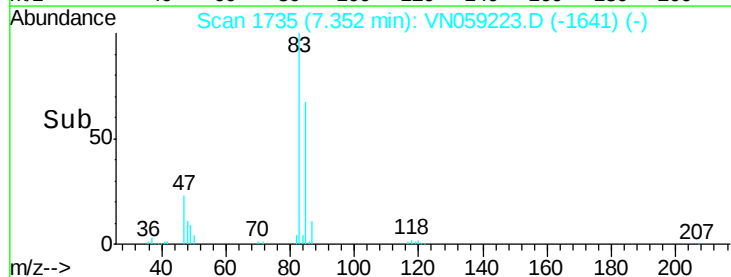
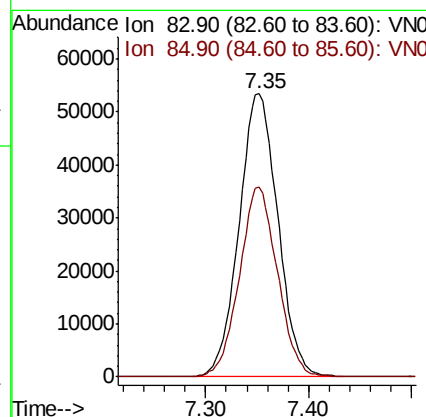
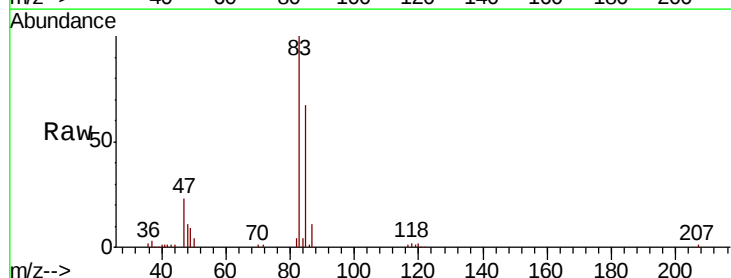
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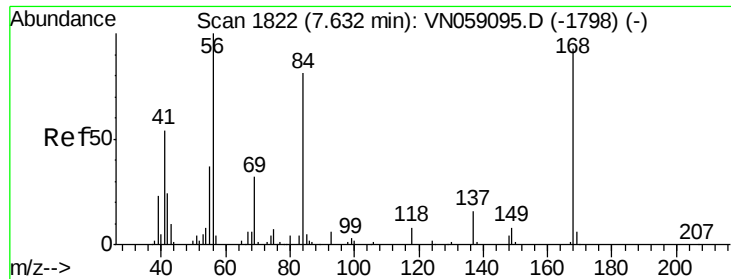
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#30
Chloroform
Concen: 19.678 ug/l
RT: 7.35 min Scan# 1735
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.0	51.8	77.8





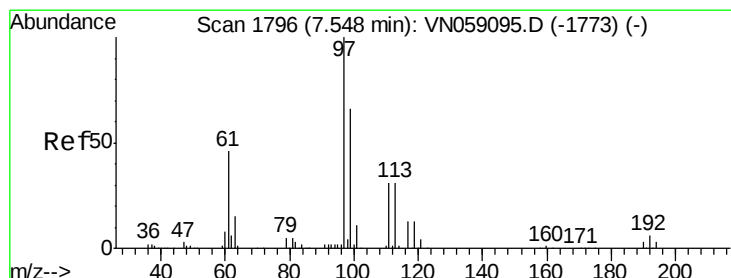
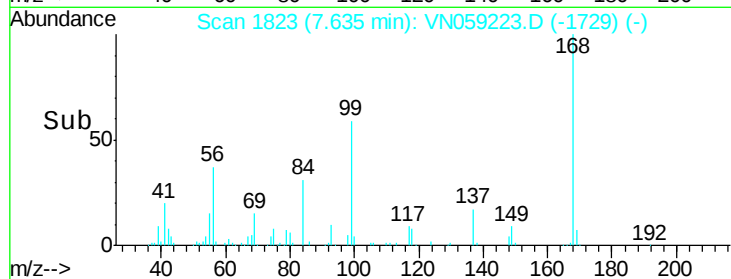
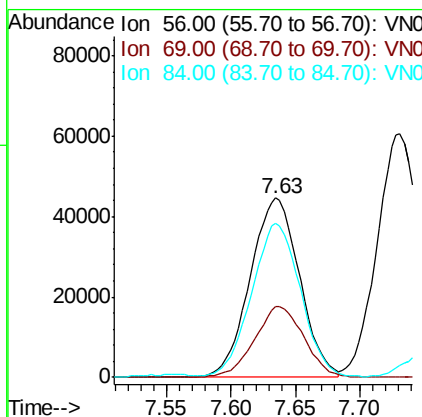
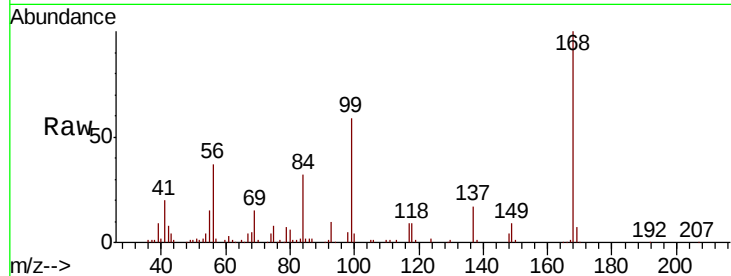
#31
Cyclohexane
Concen: 16.949 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	39.1	25.8	38.8#
84	84.9	65.0	97.4

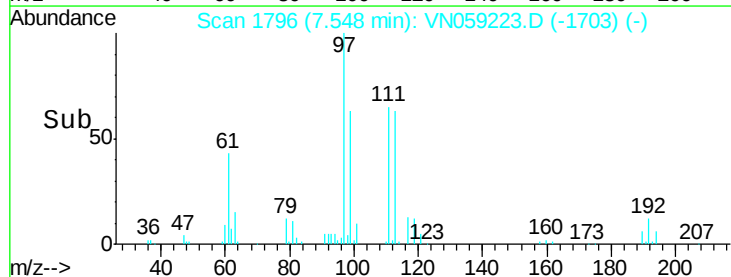
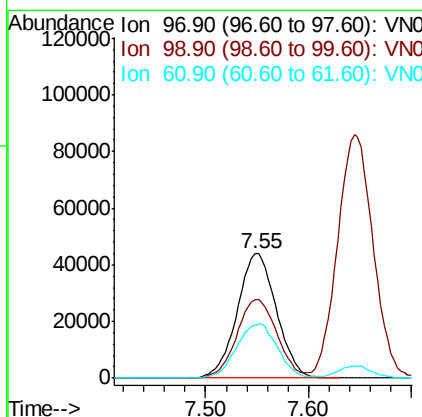
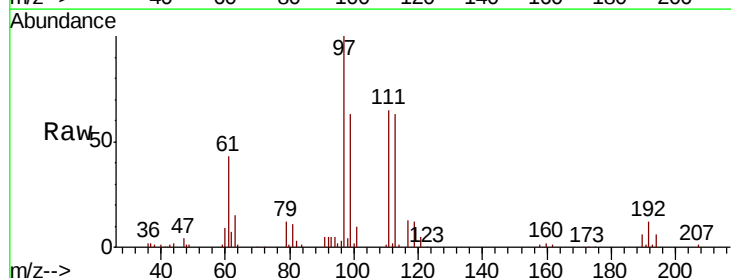
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#32
1,1,1-Trichloroethane
Concen: 19.482 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.0	76.6
61	45.4	35.8	53.8





#33

1,2-Dichloroethane-d4

Concen: 50.134 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion: 65 Resp: 225868

Ion Ratio Lower Upper

65 100

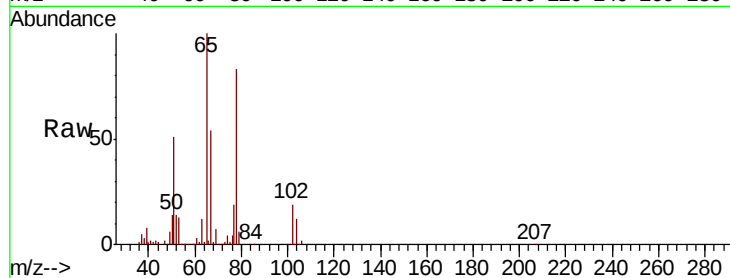
67 53.7 0.0 107.4

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Abundance Ion 64.90 (64.60 to 65.60): VN059223.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059223.D (-1845) (-)

8.01

100000

80000

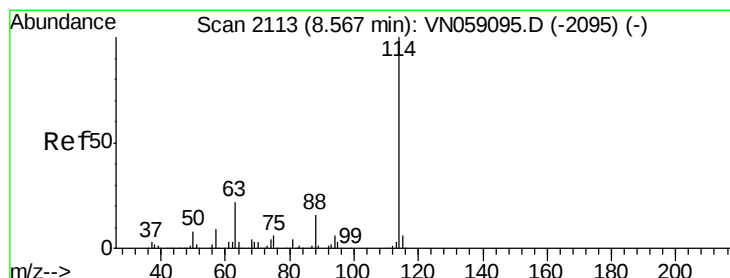
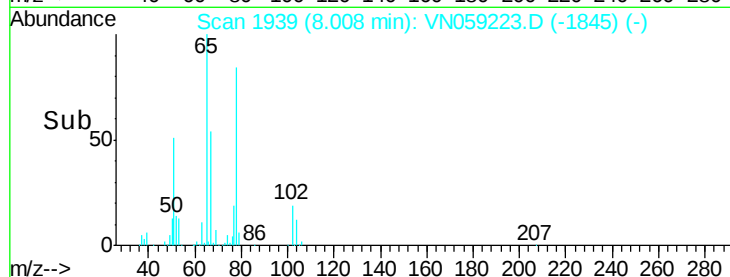
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

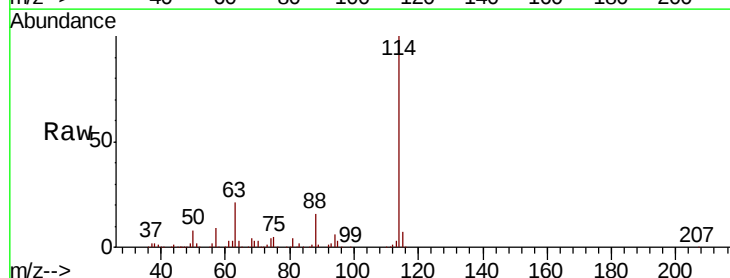
Tgt Ion: 114 Resp: 574747

Ion Ratio Lower Upper

114 100

63 20.8 0.0 43.4

88 15.6 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): VN059223.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN059223.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN059223.D (-2020) (-)

8.57

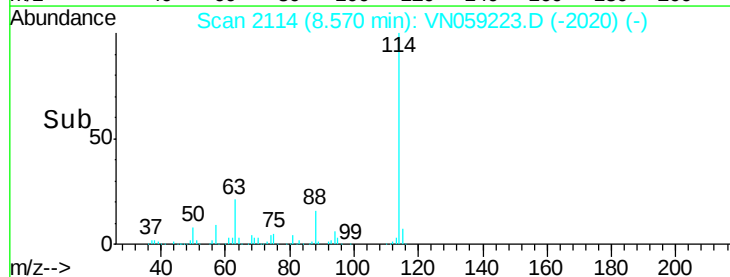
300000

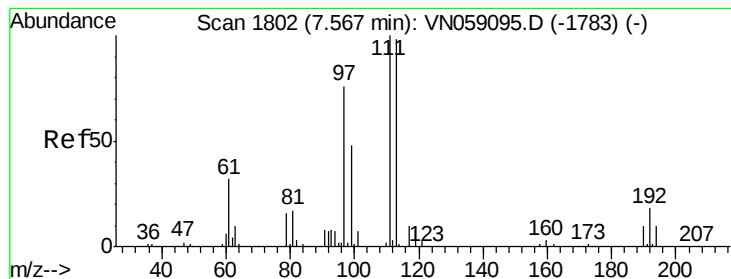
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 51.835 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

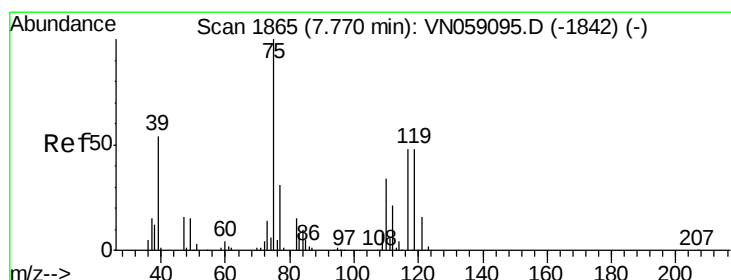
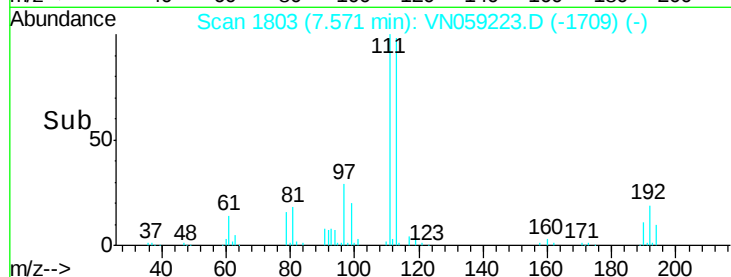
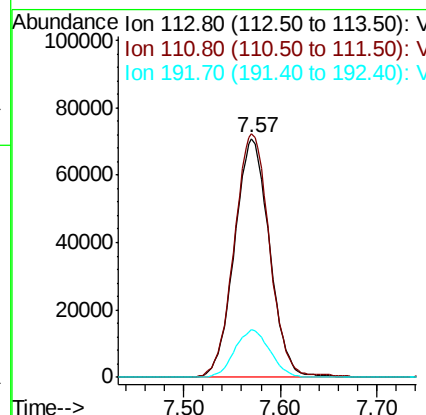
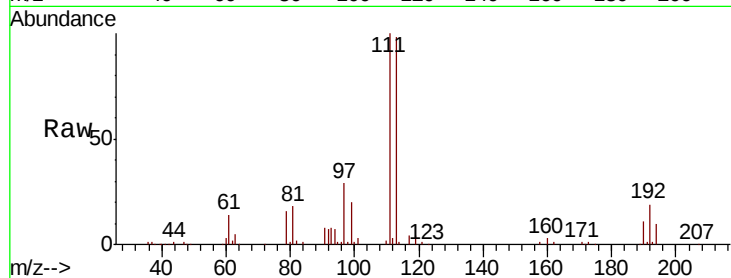
ClientSampleId :

VN1114WBS01

Tot Ion:	113	Resp:	177887
Ion Ratio	Lower	Upper	
113	100		
111	102.5	82.8	124.2
192	20.0	16.1	24.1

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#36

1,1-Dichloropropene

Concen: 18.186 ug/l

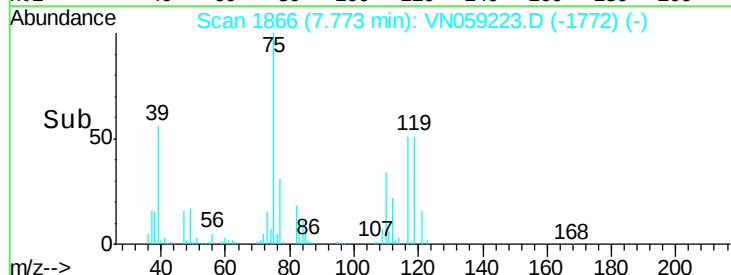
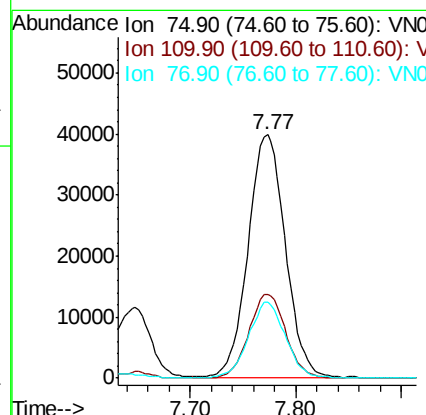
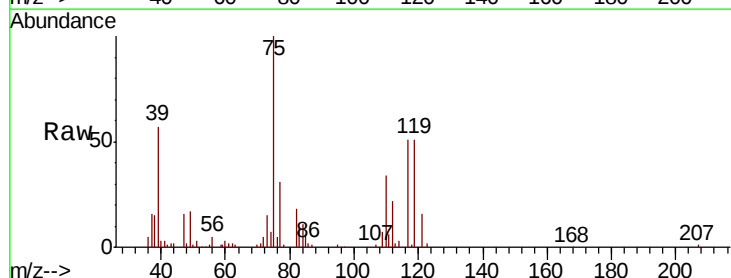
RT: 7.77 min Scan# 1866

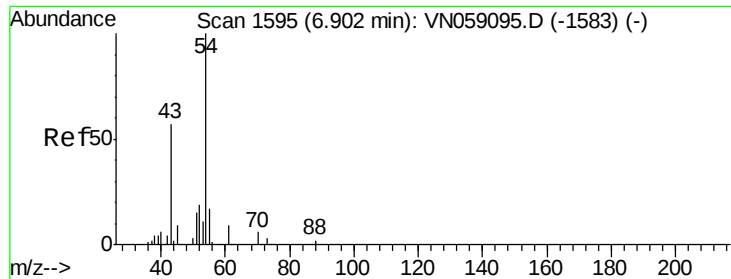
Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Tgt Ion:	75	Resp:	97700
Ion Ratio	Lower	Upper	
75	100		
110	34.0	17.1	51.2
77	31.1	24.8	37.2





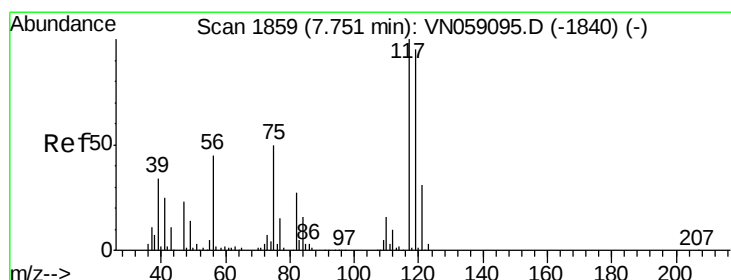
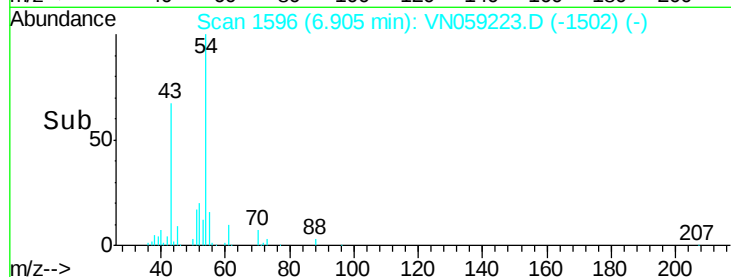
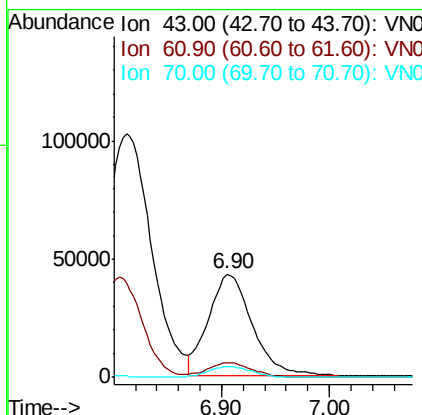
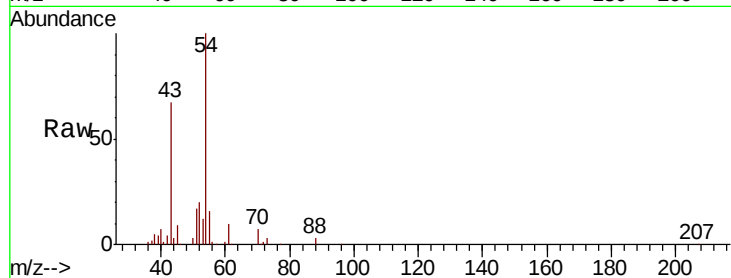
#37
Ethyl Acetate
Concen: 20.367 ug/l
RT: 6.90 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.2	16.8
70	10.7	7.8	11.8

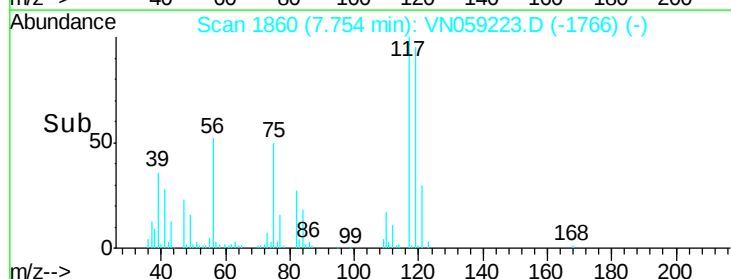
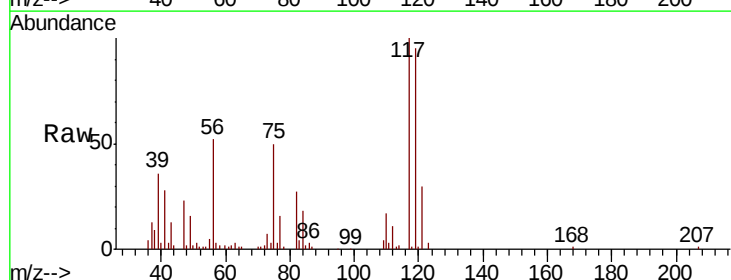
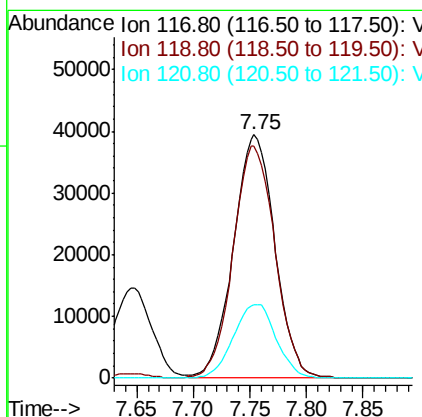
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#38
Carbon Tetrachloride
Concen: 18.787 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.1	75.6	113.4
121	30.0	24.6	36.8





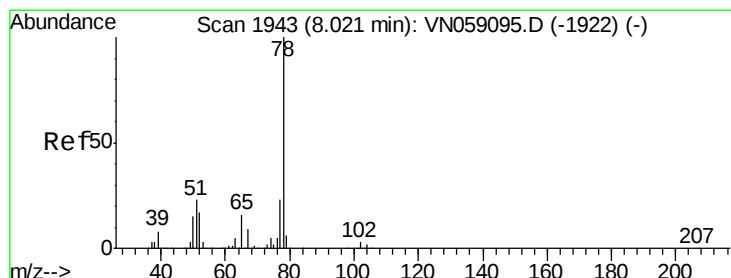
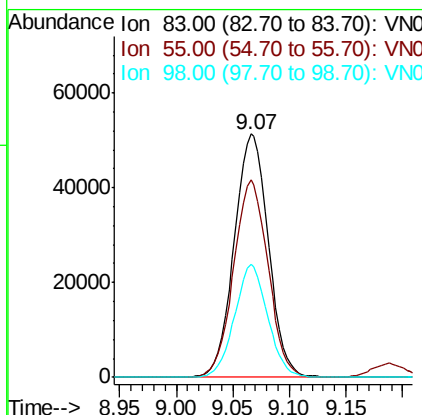
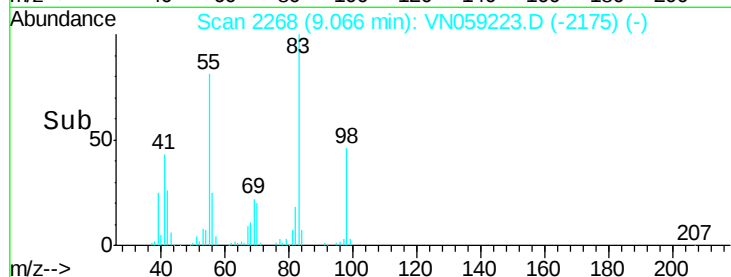
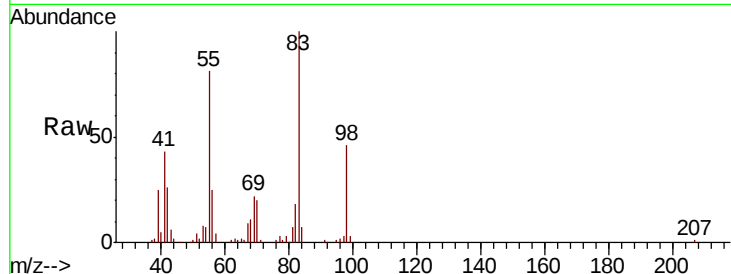
#39
Methvlcvclohexane
Concen: 17.353 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
83	100		
55	81.3	63.9	95.9
98	46.3	35.6	53.4

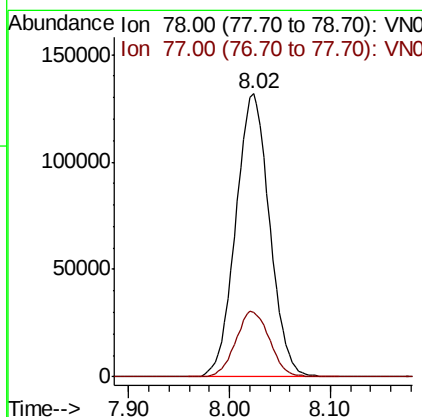
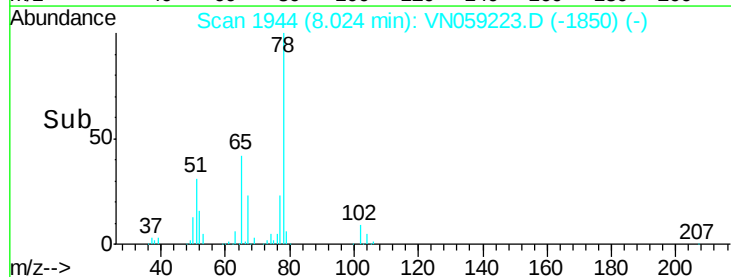
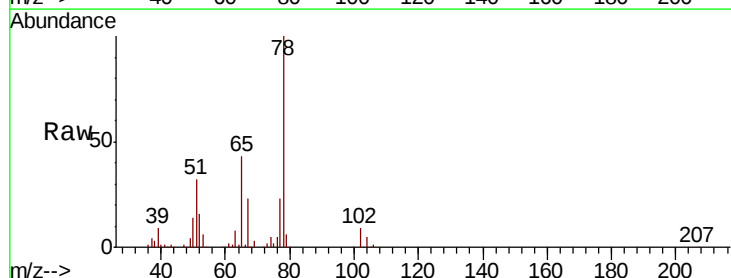
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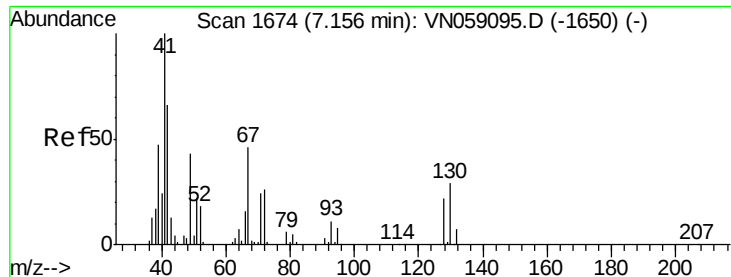
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#40
Benzene
Concen: 18.946 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.8	28.2





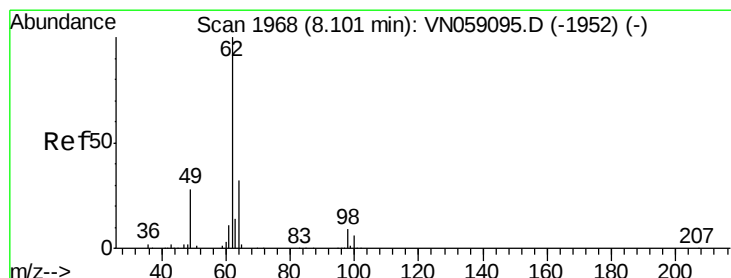
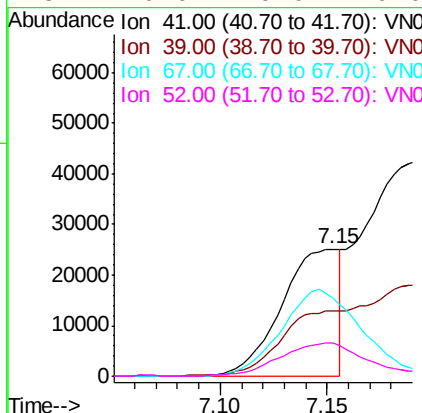
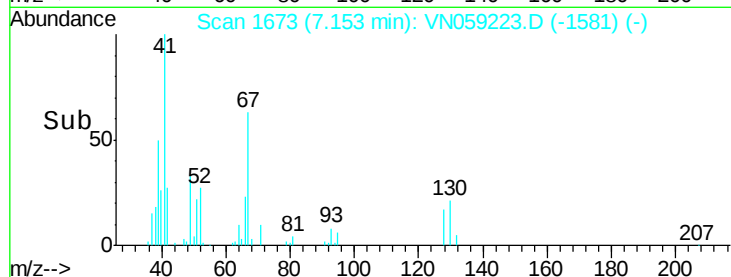
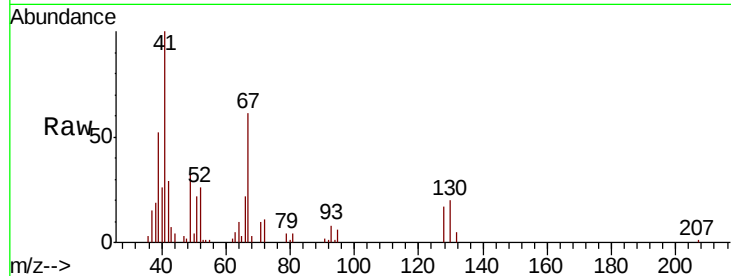
#41
Methacrylonitrile
Concen: 18.260 ug/l m
RT: 7.15 min Scan# 1673
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		47453		
39	174.5	0.0	0.0#		
67	0.0	0.0	0.0		
52	0.0	0.0	0.0		

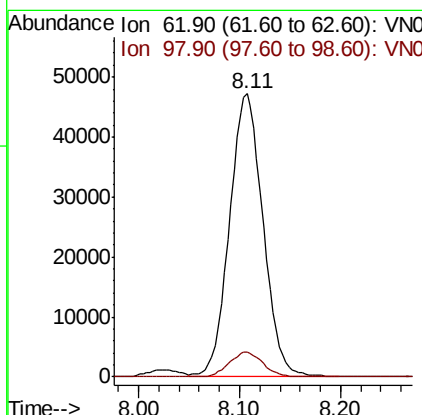
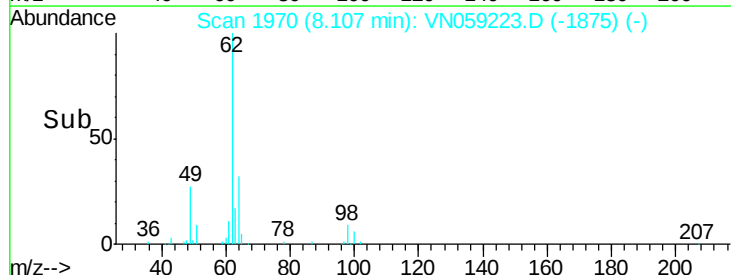
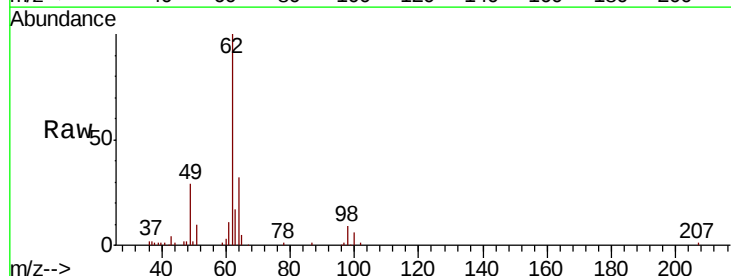
Manual Integrations
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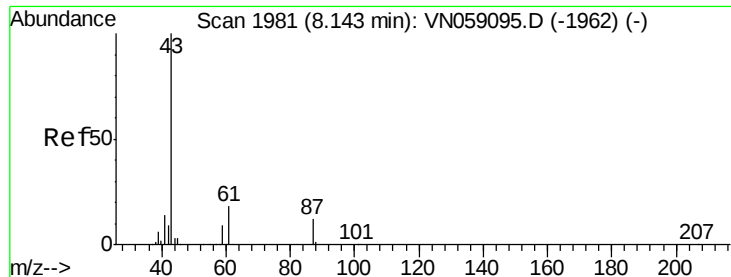
MMDadoda
11/15/2019 10:21:47 AM



#42
1,2-Dichloroethane
Concen: 19.645 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. 0.01 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		108998		
98	8.7	0.0	17.8		





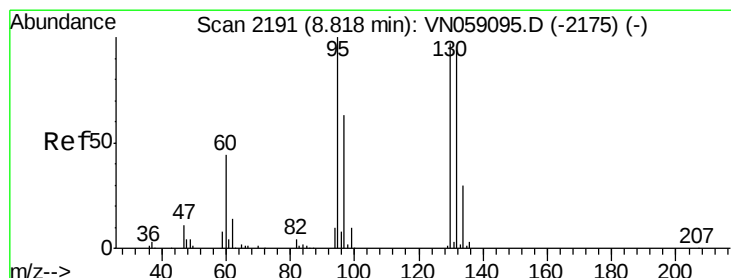
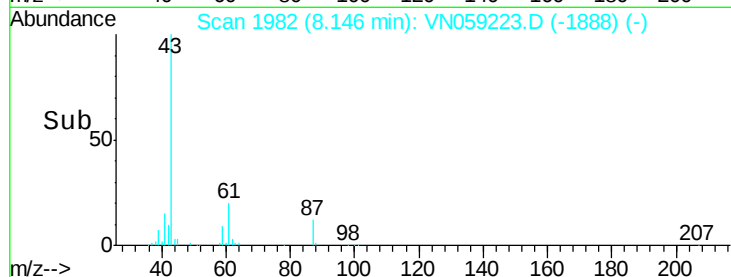
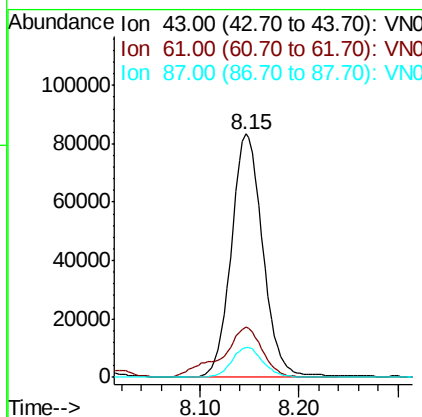
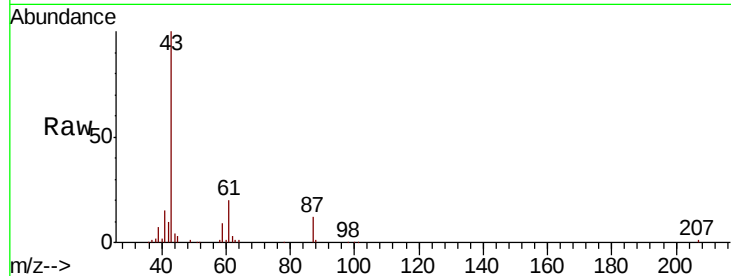
#43
Isopropyl Acetate
Concen: 19.235 ug/l
RT: 8.15 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	26.8	21.0	31.6
87	12.3	9.8	14.6

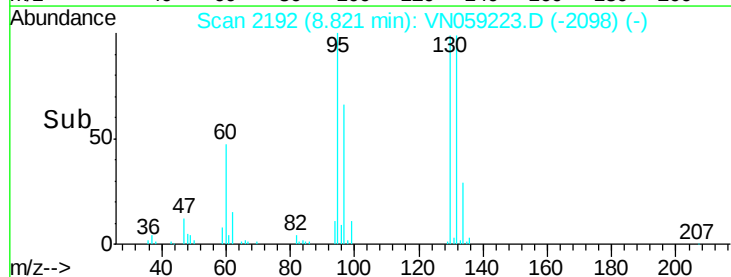
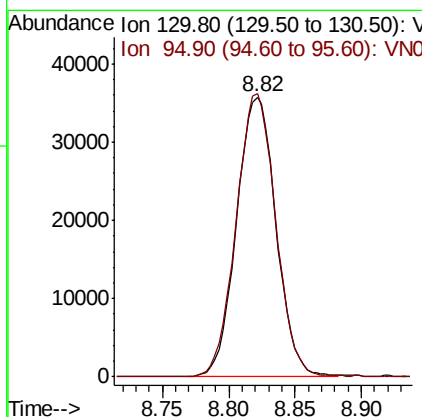
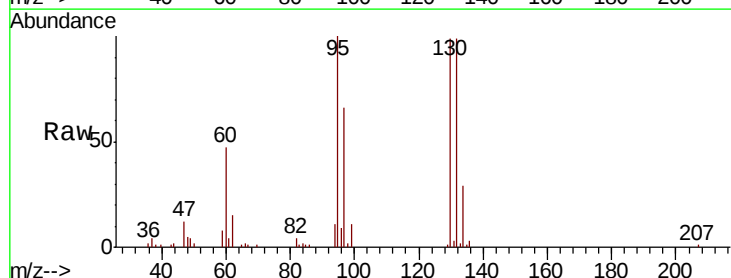
Manual Integrations
APPROVED

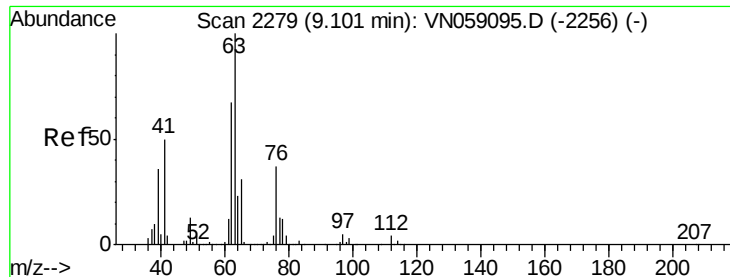
MMDadoda
11/15/2019 10:21:47 AM



#44
Trichloroethene
Concen: 18.622 ug/l
RT: 8.82 min Scan# 2192
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	206.4





#45

1,2-Dichloropropane

Concen: 19.065 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion: 63 Resp: 83776

Ion Ratio Lower Upper

63 100

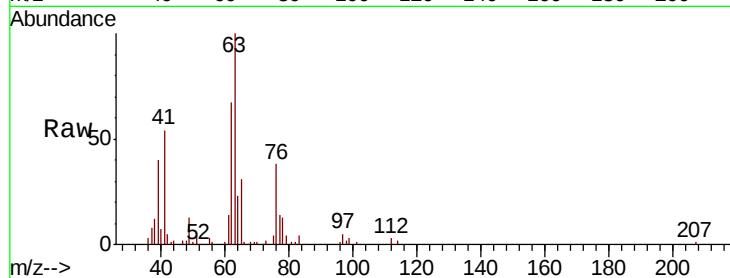
65 30.5 24.6 37.0

Manual Integrations

APPROVED

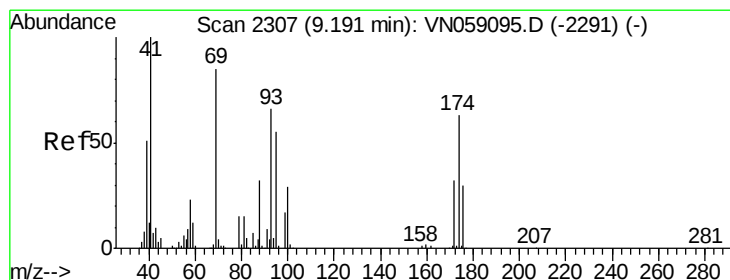
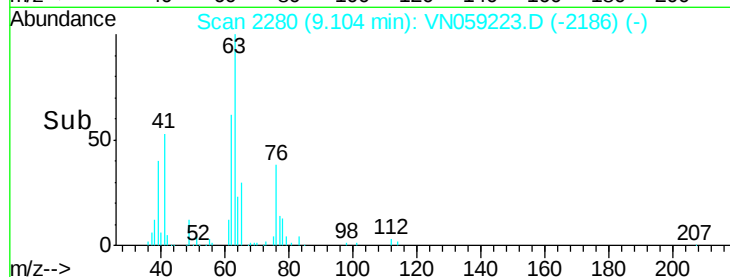
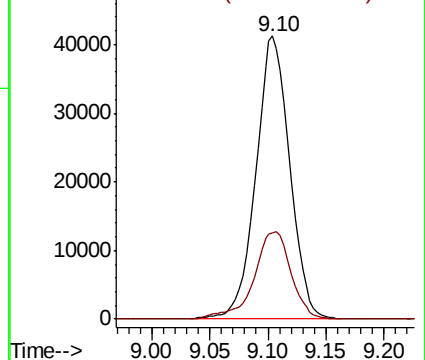
MMDadoda

11/15/2019 10:21:47 AM



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#46

Dibromomethane

Concen: 19.835 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

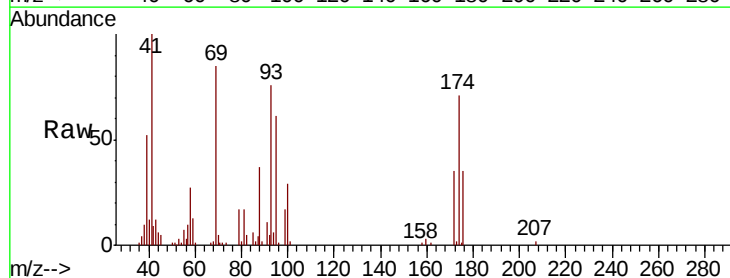
Tgt Ion: 93 Resp: 54312

Ion Ratio Lower Upper

93 100

95 80.7 66.6 100.0

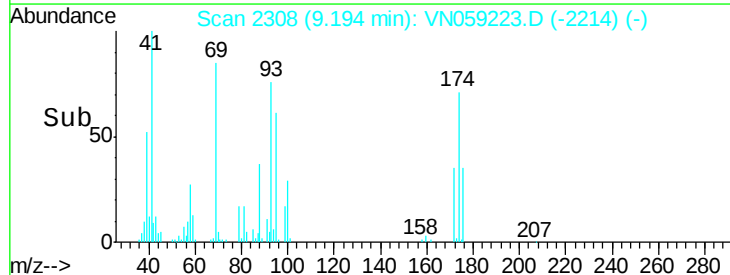
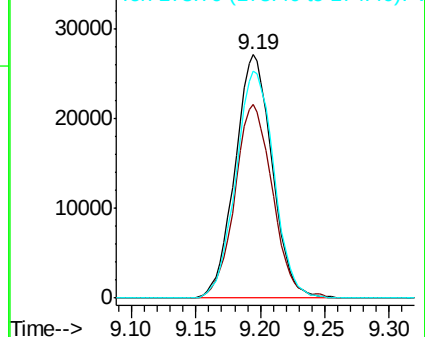
174 95.6 78.2 117.2

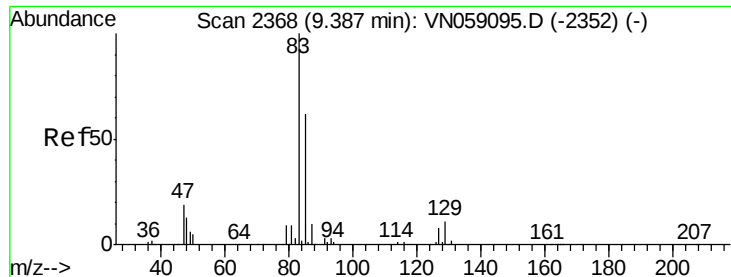


Abundance Ion 92.80 (92.50 to 93.50): VNO

Ion 94.80 (94.50 to 95.50): VNO

Ion 173.70 (173.40 to 174.40): VNO





#47

Bromodichloromethane

Concen: 19.544 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

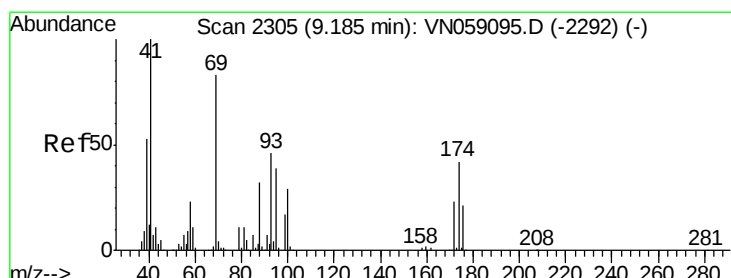
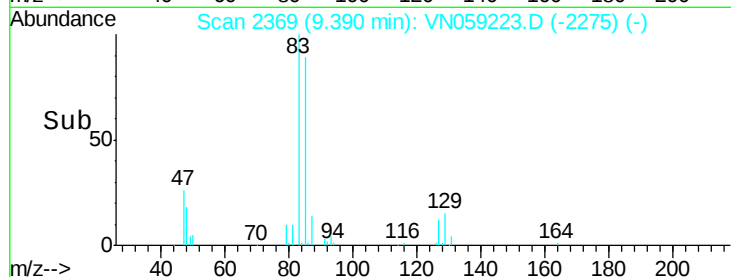
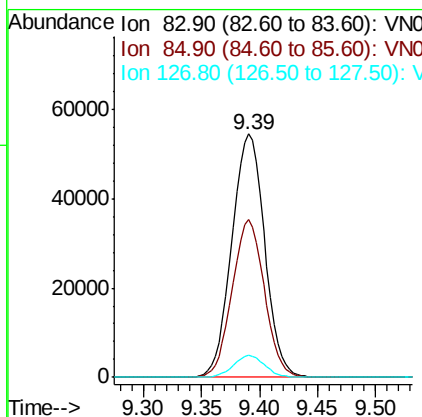
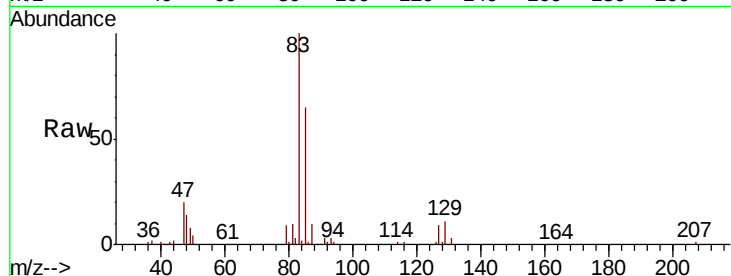
ClientSampleId :

VN1114WBS01

Tot Ion:	83	Resp:	106860
Ion Ratio	Lower	Upper	
83	100		
85	64.7	49.7	74.5
127	8.9	6.4	9.6

Manual Integrations
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MMDadoda
11/15/2019 10:21:47 AM



#48

Methyl methacrylate

Concen: 19.174 ug/l

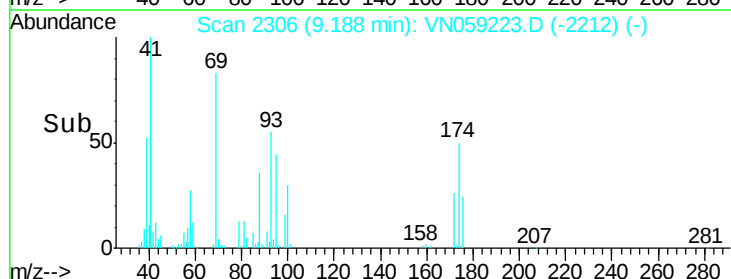
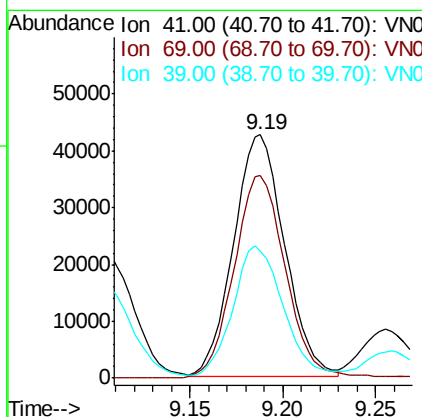
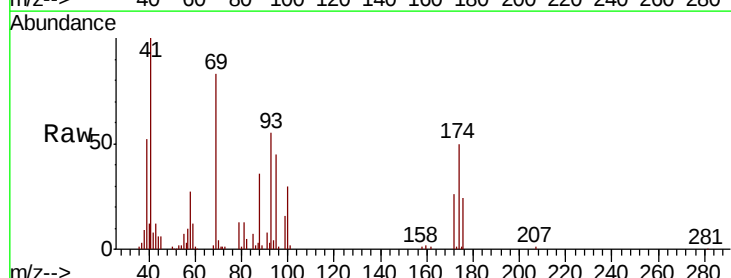
RT: 9.19 min Scan# 2306

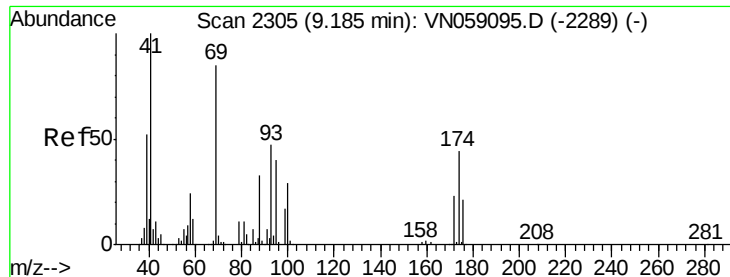
Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Tgt Ion:	41	Resp:	81715
Ion Ratio	Lower	Upper	
41	100		
69	84.5	67.3	100.9
39	54.4	43.3	64.9





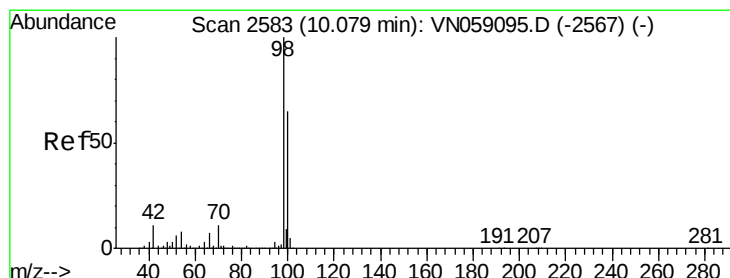
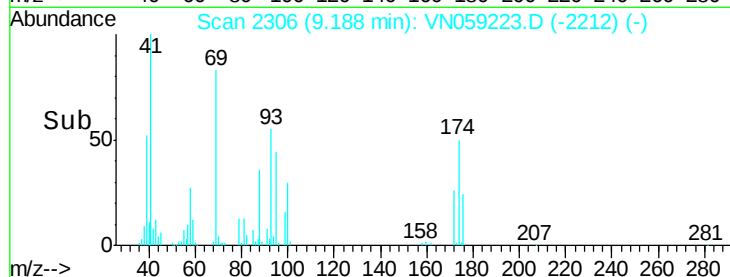
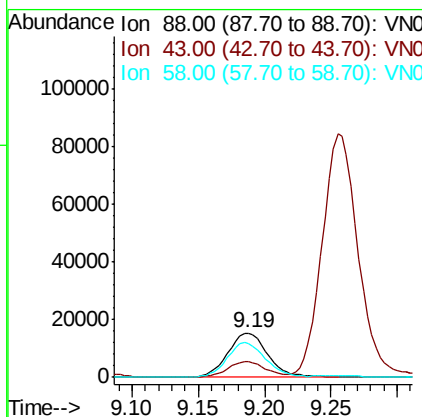
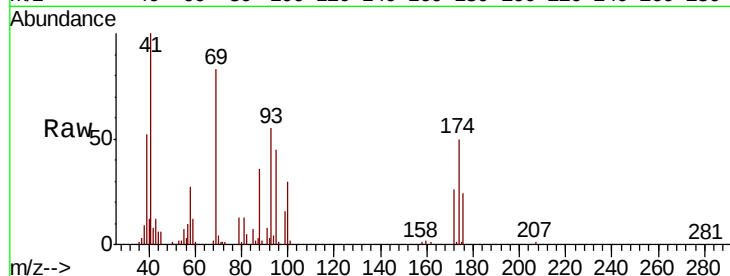
#49
1,4-Dioxane
Concen: 424.724 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.7	26.3	39.5
58	75.6	60.6	90.8

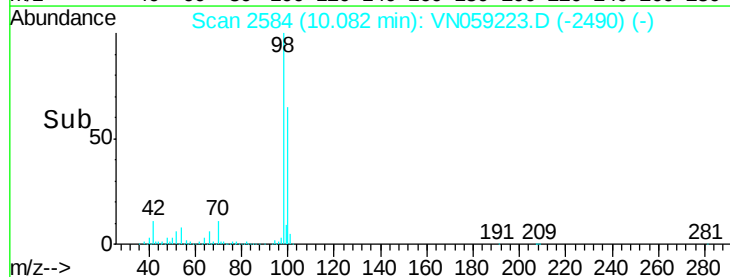
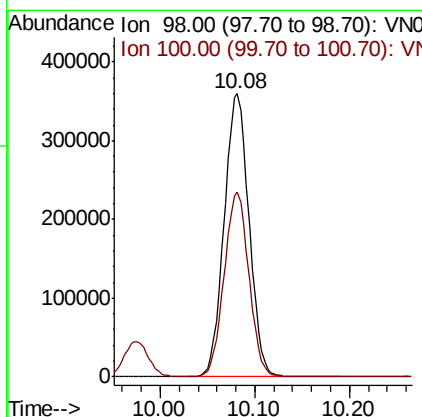
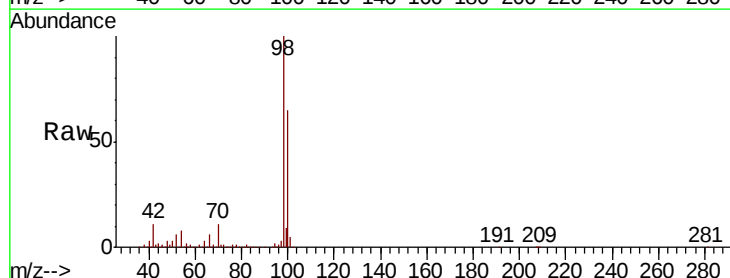
Manual Integrations
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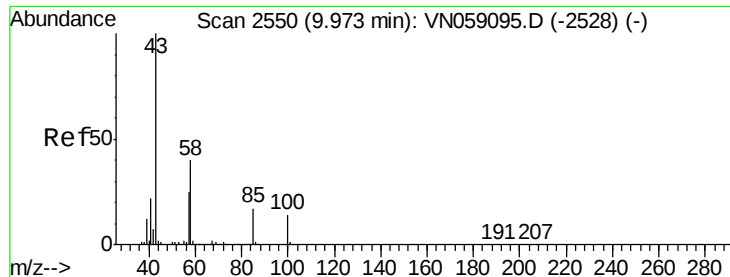
MMDadoda
11/15/2019 10:21:47 AM



#50
Toluene-d8
Concen: 48.588 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 111.981 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion: 43 Resp: 603703

Ion Ratio Lower Upper

43 100

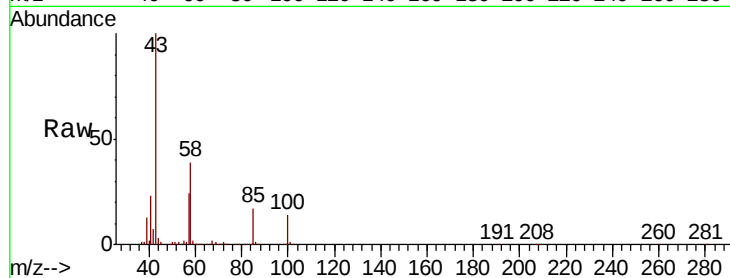
58 38.7 31.5 47.3

Manual Integrations

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MMDadoda

11/15/2019 10:21:47 AM



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN059095.D (-2528) (-)

9.98

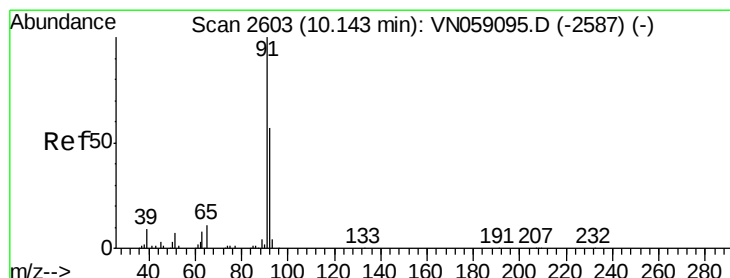
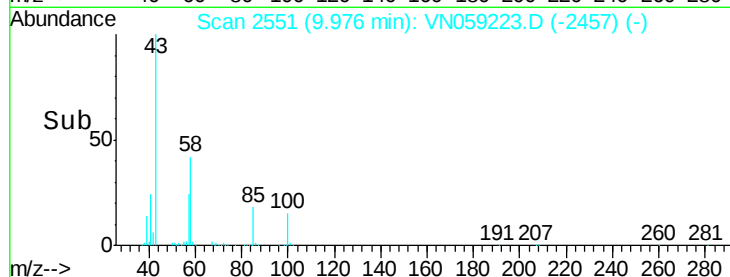
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 18.694 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059223.D

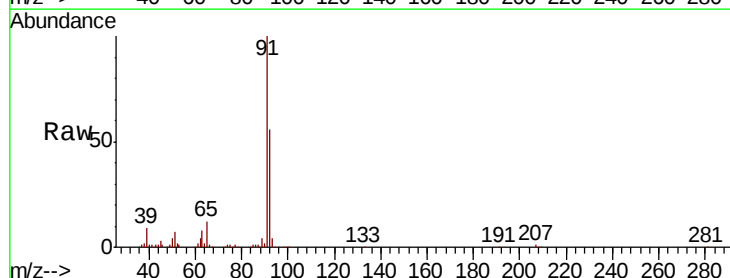
Acq: 14 Nov 2019 11:19

Tgt Ion: 92 Resp: 181261

Ion Ratio Lower Upper

92 100

91 176.2 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN059095.D (-2587) (-)

Ion 91.00 (90.70 to 91.70): VN059095.D (-2587) (-)

10.15

200000

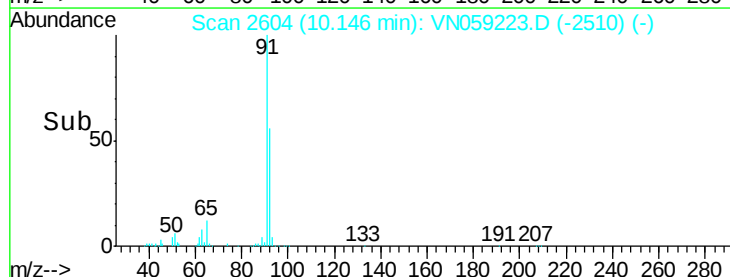
150000

100000

50000

0

Time-->





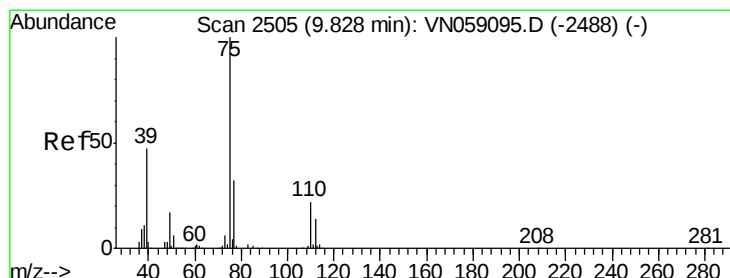
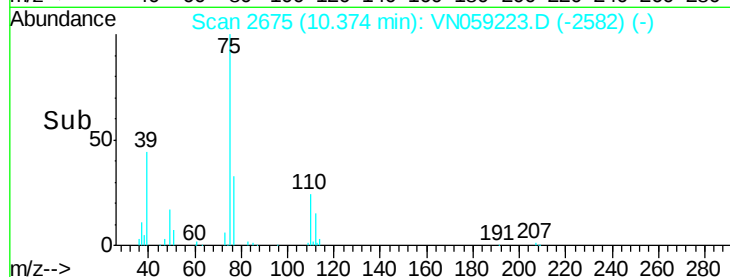
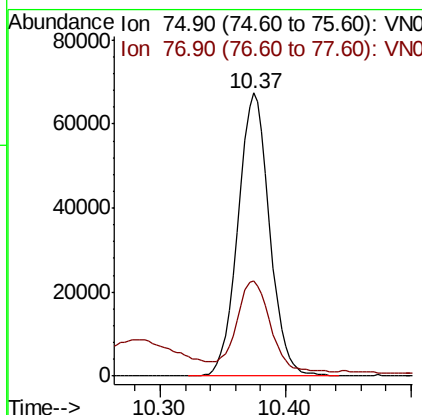
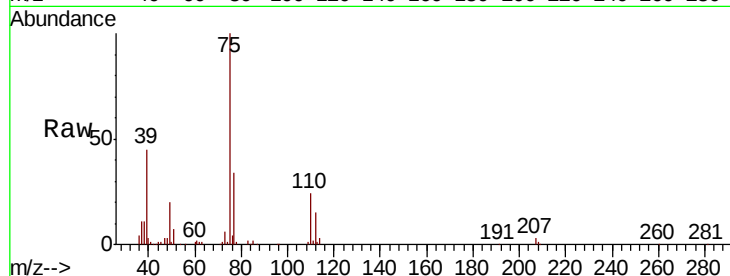
#53
t-1,3-Dichloropropene
Concen: 18.673 ug/l
RT: 10.37 min Scan# 2675
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.3	37.9

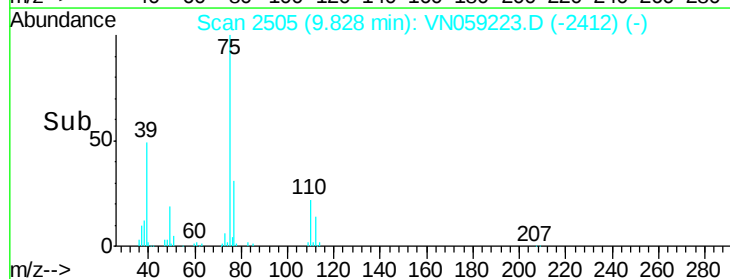
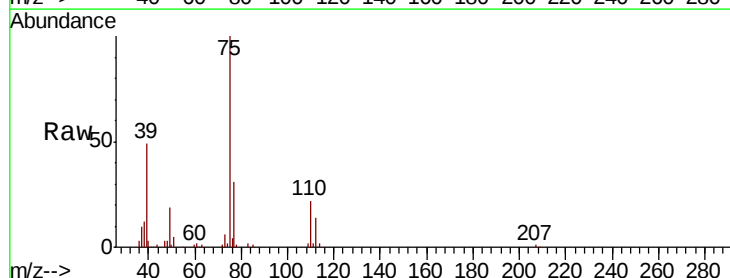
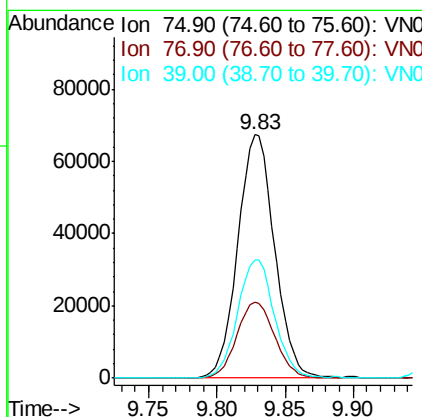
Manual Integrations
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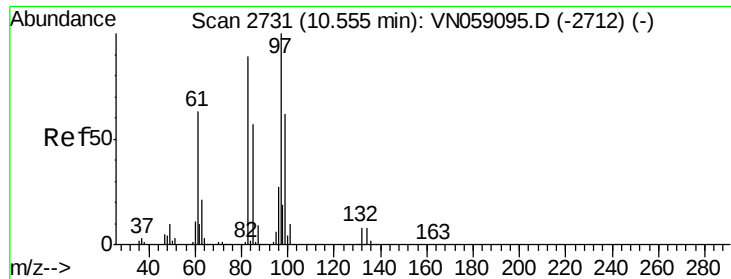
MMDadoda
11/15/2019 10:21:47 AM



#54
cis-1,3-Dichloropropene
Concen: 18.568 ug/l
RT: 9.83 min Scan# 2505
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.5	38.3
39	48.4	37.3	55.9





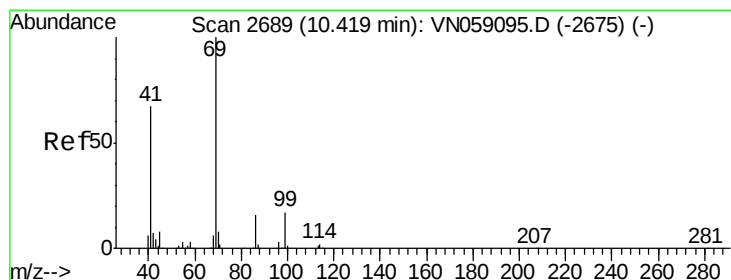
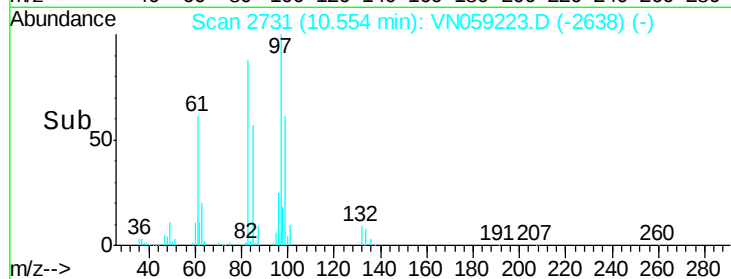
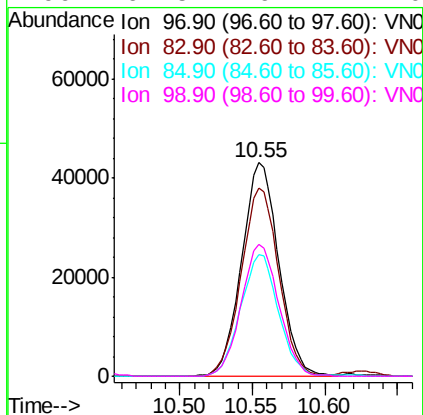
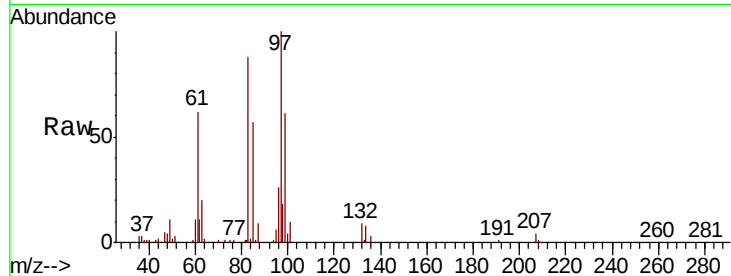
#55
 1,1,2-Trichloroethane
 Concen: 19.596 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.0	71.0	106.4
85	57.1	45.8	68.8
99	61.5	49.4	74.0

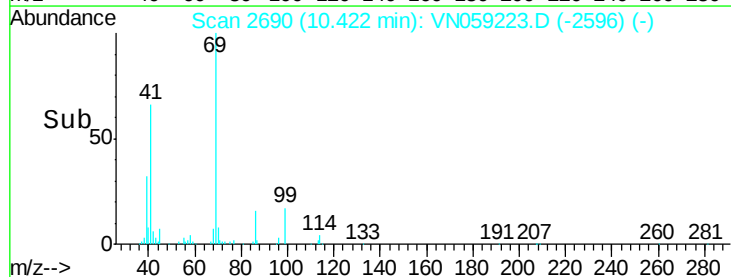
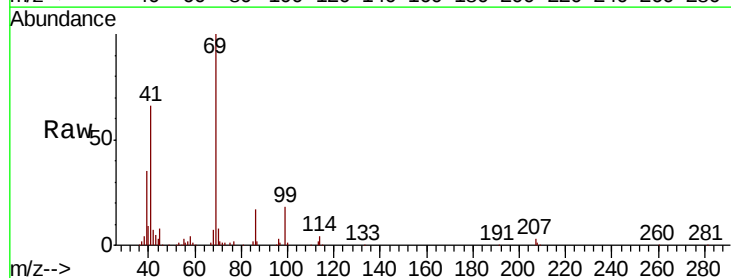
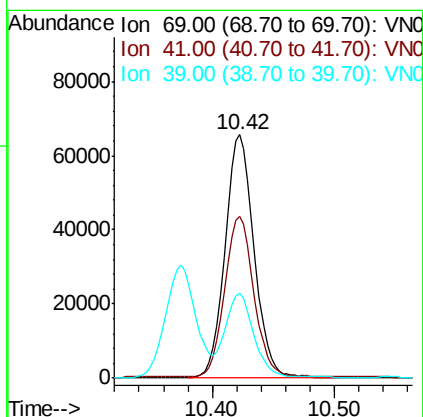
Manual Integrations
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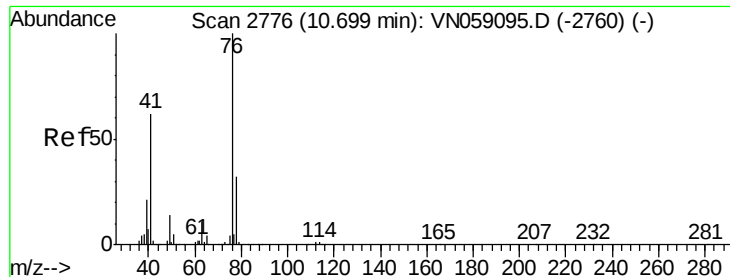
MMDadoda
 11/15/2019 10:21:47 AM



#56
 Ethyl methacrylate
 Concen: 18.027 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
69	100		
41	65.9	53.6	80.4
39	33.4	26.2	39.4





#57

1,3-Dichloropropane

Concen: 19.568 ug/l

RT: 10.70 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion: 76 Resp: 132160

Ion Ratio Lower Upper

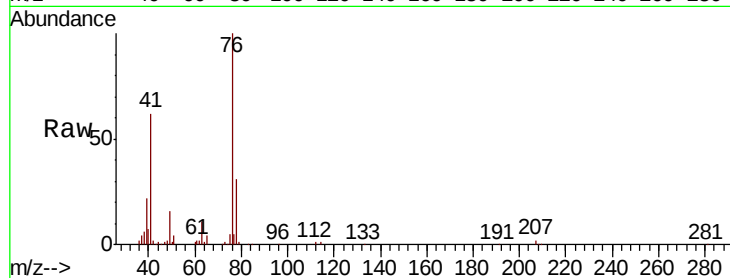
76 100

78 32.0 25.8 38.8

Manual Integrations
APPROVED

MMDadoda

11/15/2019 10:21:47 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.70

80000

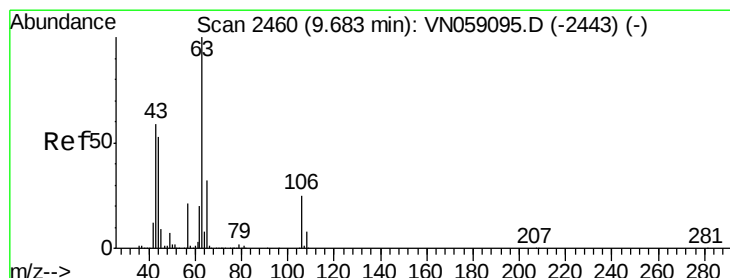
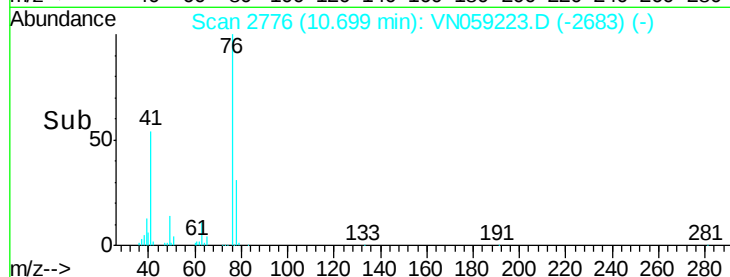
60000

40000

20000

0

Time--> 10.60 10.70 10.80



#58

2-Chloroethyl Vinyl ether

Concen: 48.628 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. -0.00 min

Lab File: VN059223.D

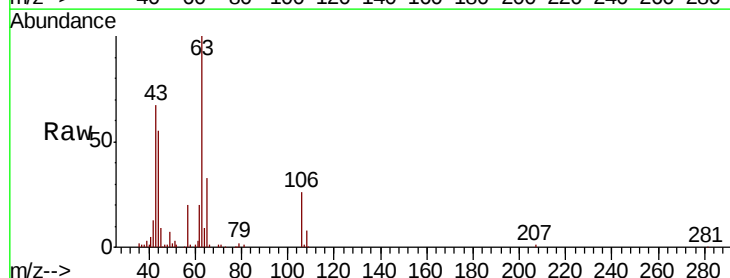
Acq: 14 Nov 2019 11:19

Tgt Ion: 63 Resp: 106199

Ion Ratio Lower Upper

63 100

106 26.4 20.2 30.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.68

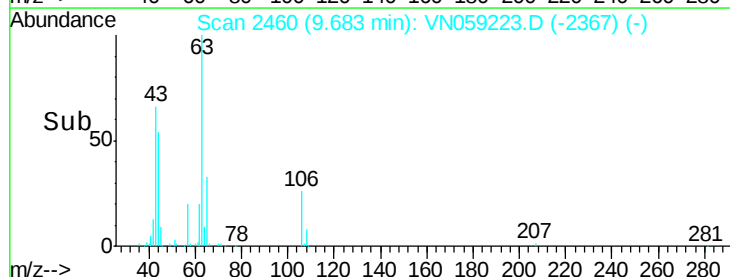
60000

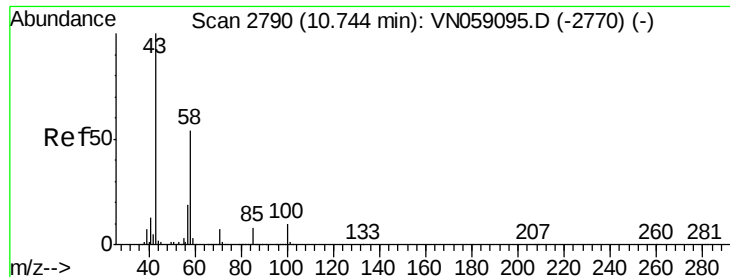
40000

20000

0

Time--> 9.60 9.65 9.70 9.75





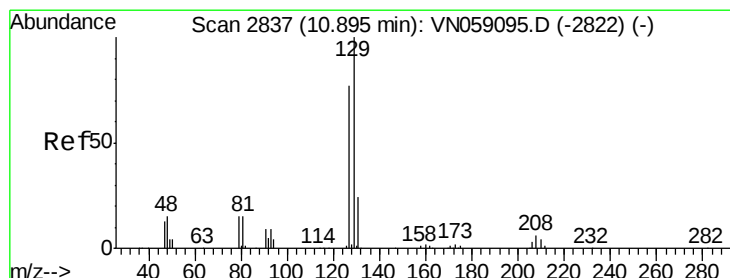
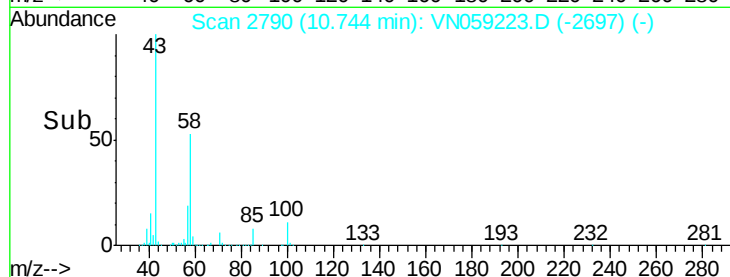
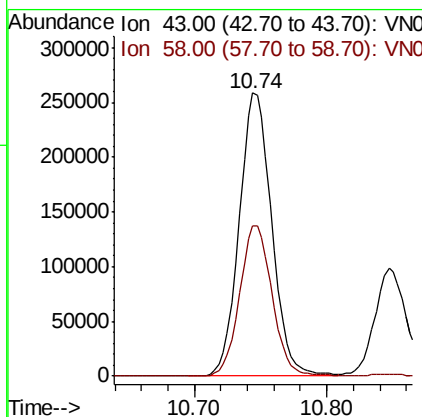
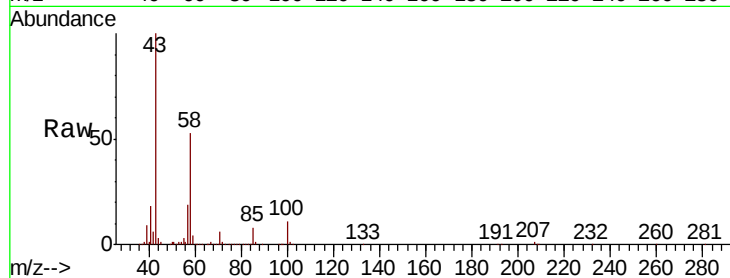
#59
2-Hexanone
Concen: 106.306 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	53.1	27.3	81.8

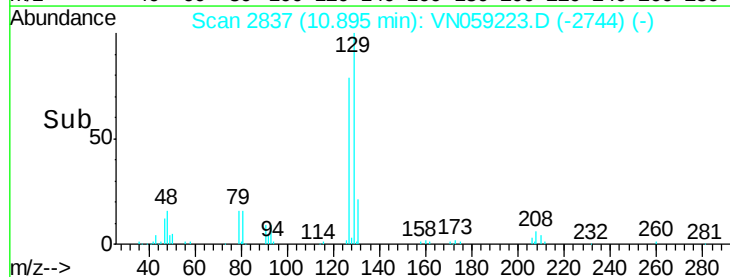
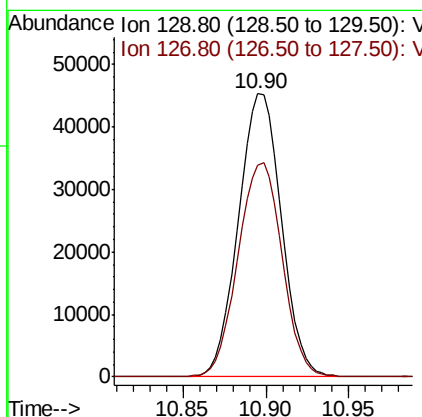
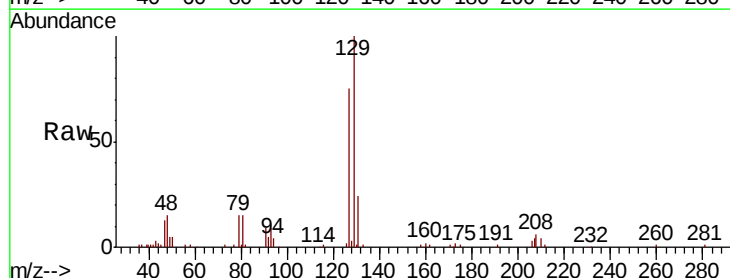
Manual Integrations
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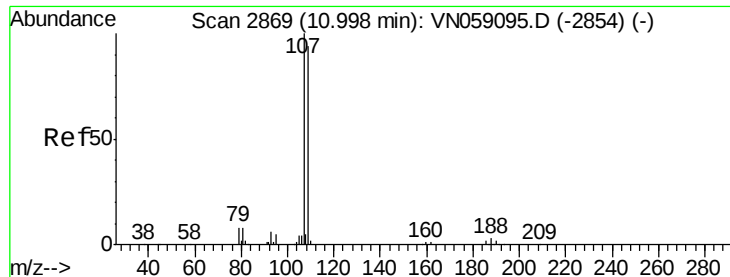
MMDadoda
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#60
Dibromochloromethane
Concen: 19.762 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.6	38.6	115.8





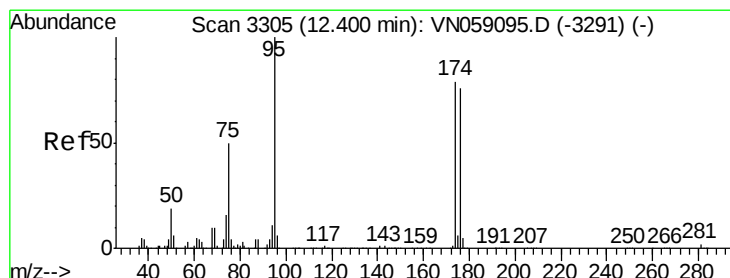
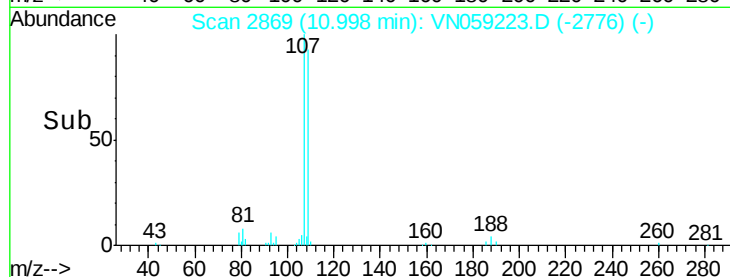
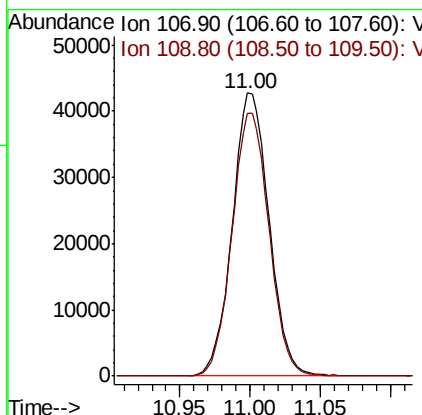
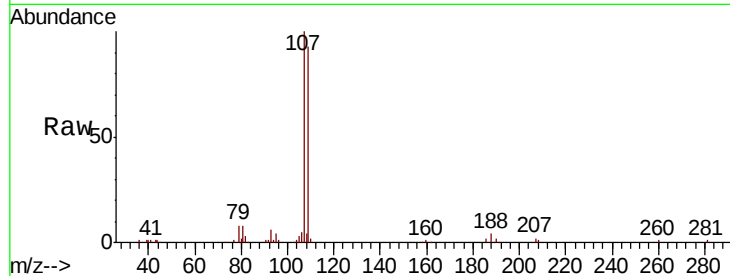
#61
 1,2-Dibromoethane
 Concen: 19.645 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. -0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBS01

Tot Ion: 107 Resp: 78042
 Ion Ratio Lower Upper
 107 100
 109 93.4 75.5 113.3

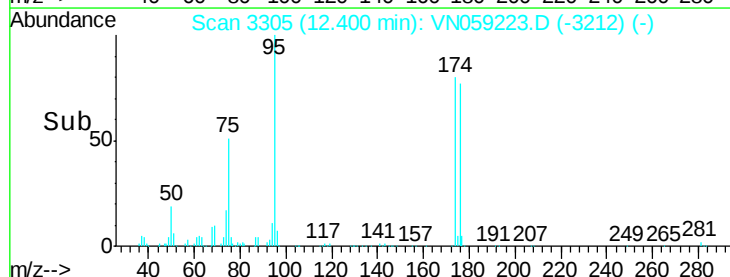
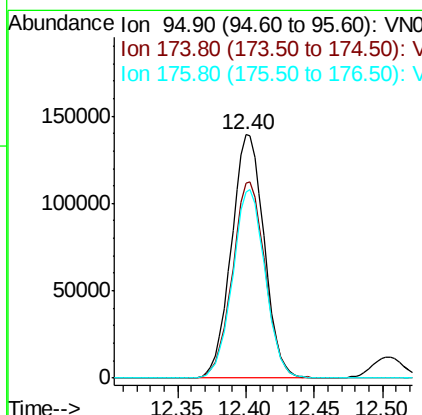
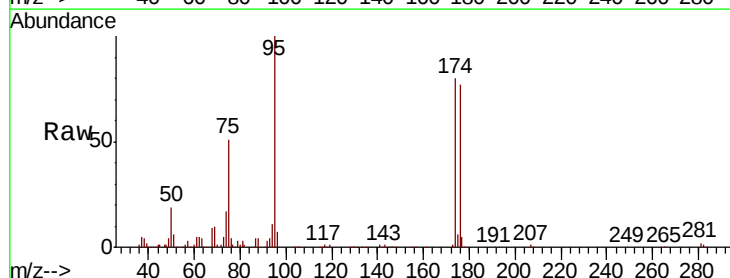
Manual Integrations
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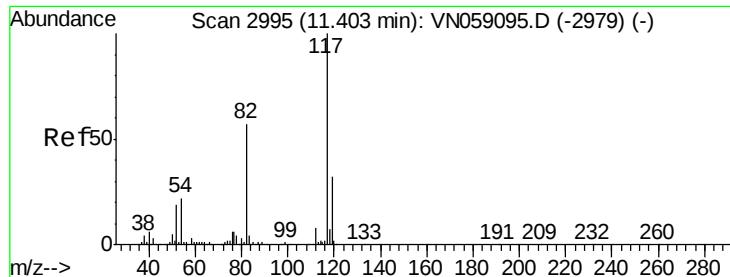
MMDadoda
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#62
 4-Bromofluorobenzene
 Concen: 47.685 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Tgt Ion: 95 Resp: 232414
 Ion Ratio Lower Upper
 95 100
 174 80.4 0.0 158.2
 176 76.9 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

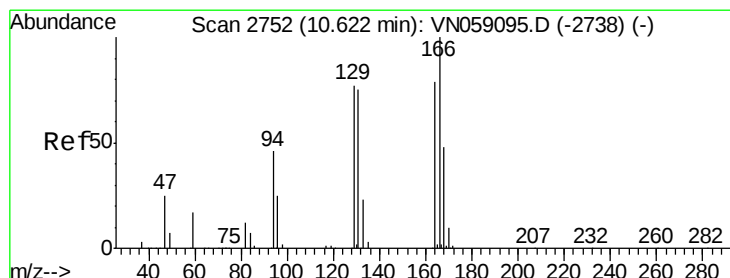
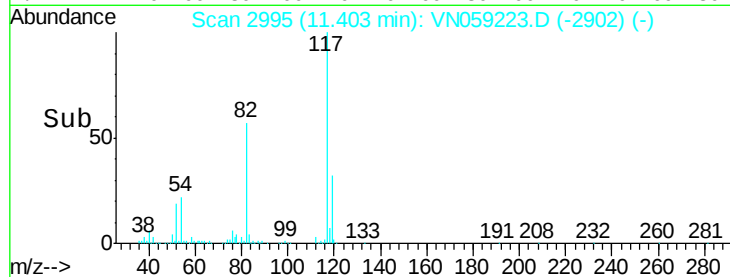
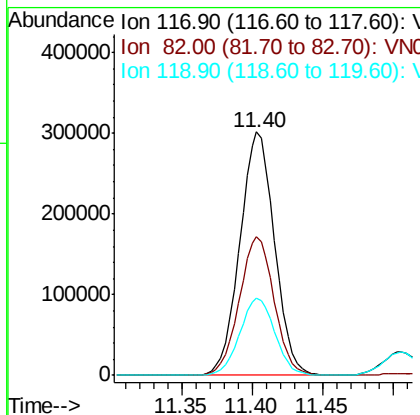
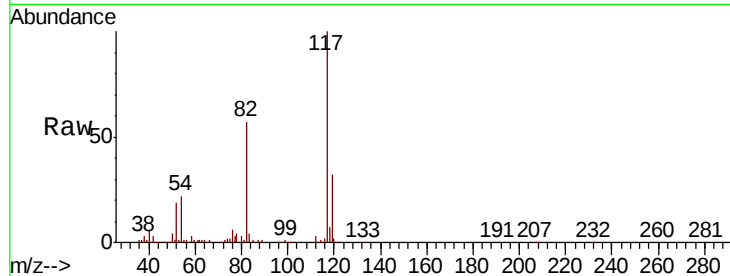
ClientSampleId :

VN1114WBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.8	68.8
119	31.7	25.8	38.6

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#64

Tetrachloroethene

Concen: 18.585 ug/l

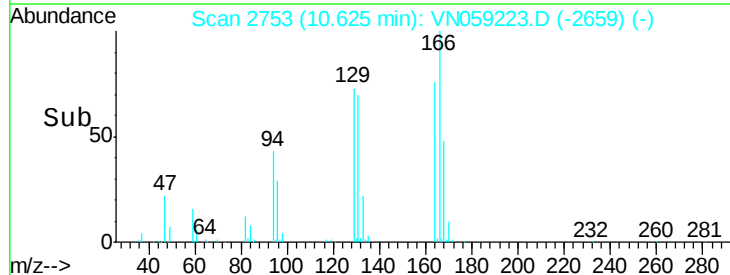
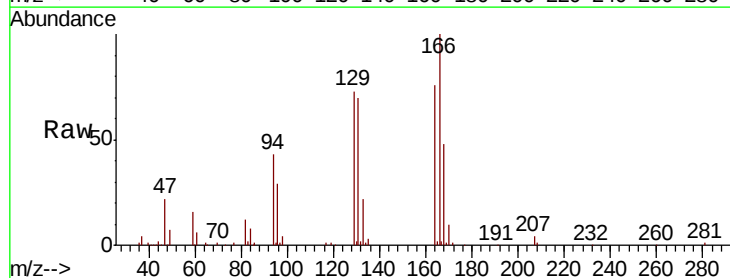
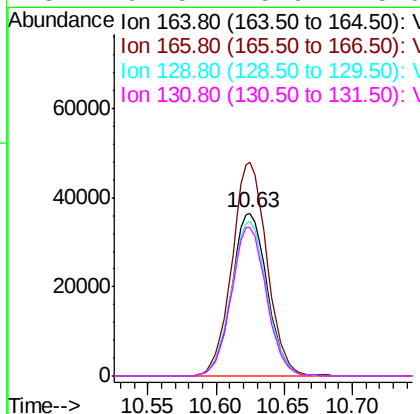
RT: 10.63 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.3	101.5	152.3
129	95.6	78.3	117.5
131	91.5	75.9	113.9





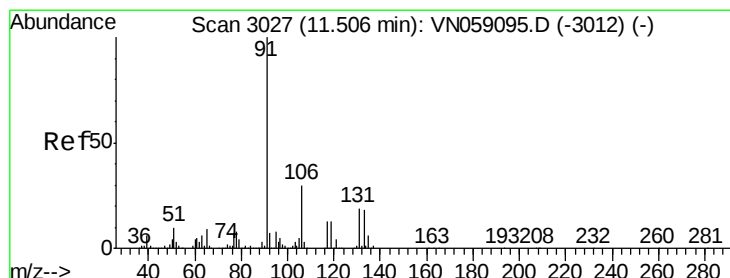
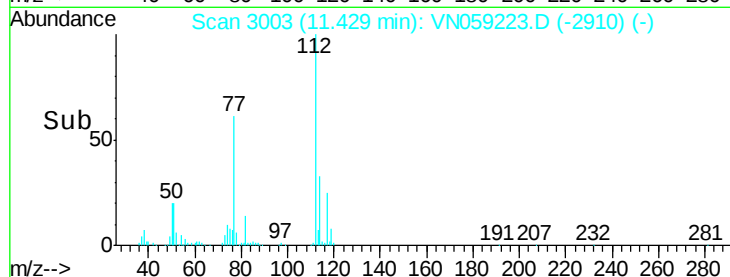
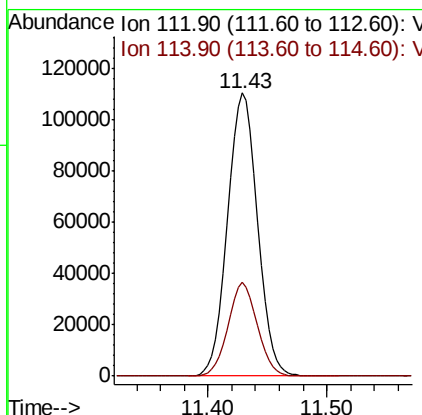
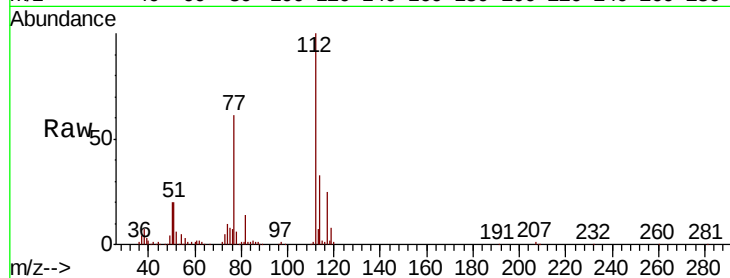
#65
Chlorobenzene
Concen: 19.117 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
112	100		
114	33.1	25.2	37.8

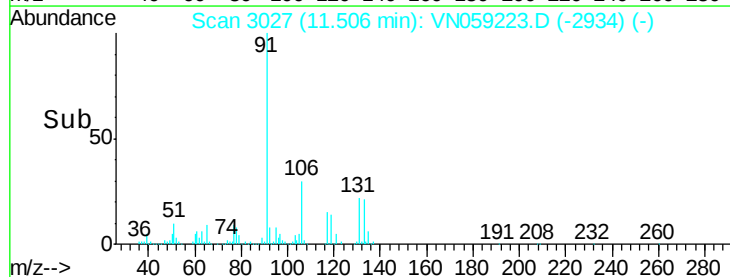
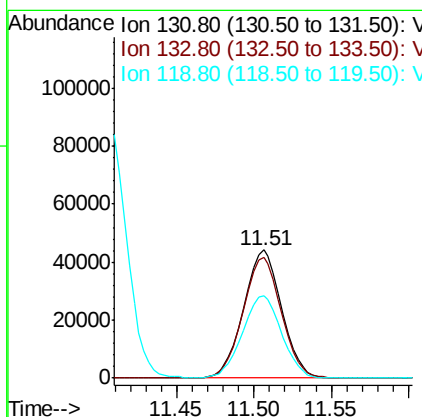
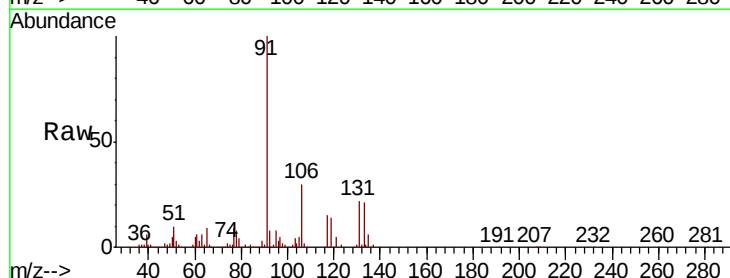
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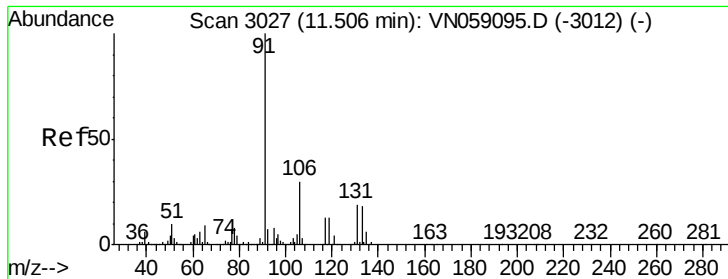
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 19.901 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.4	142.3
119	66.5	33.2	99.6





#67

Ethyl Benzene

Concen: 19.002 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion: 91 Resp: 340921

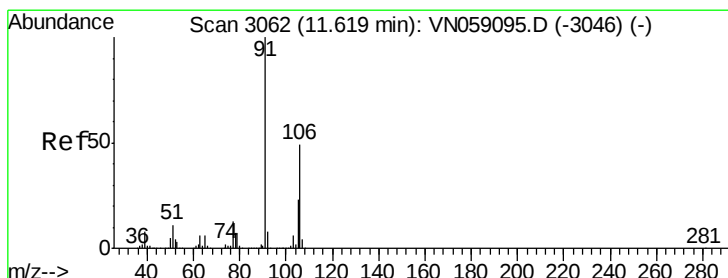
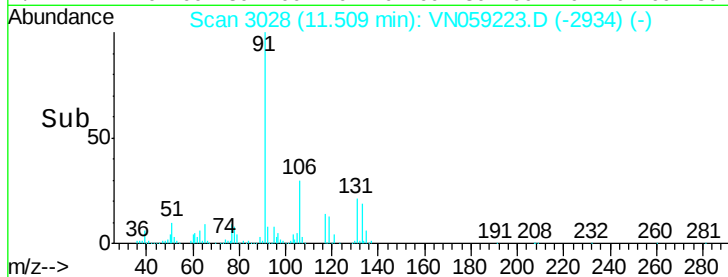
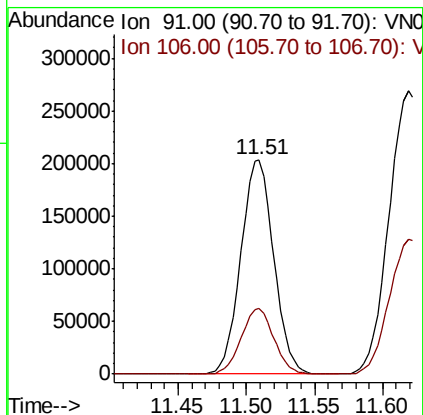
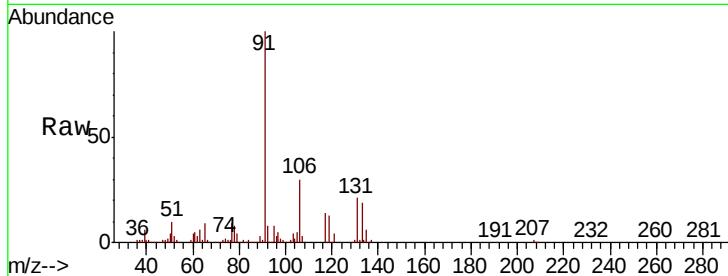
Ion Ratio Lower Upper

91 100

106 30.4 24.1 36.1

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#68

m/p-Xylenes

Concen: 37.296 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN059223.D

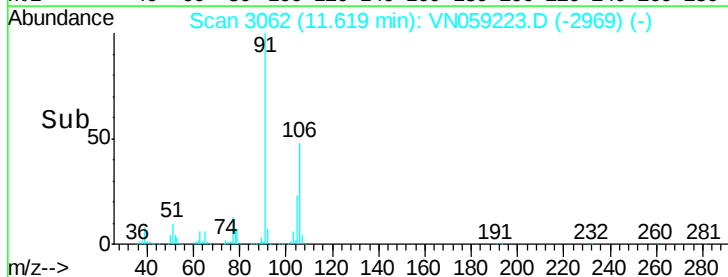
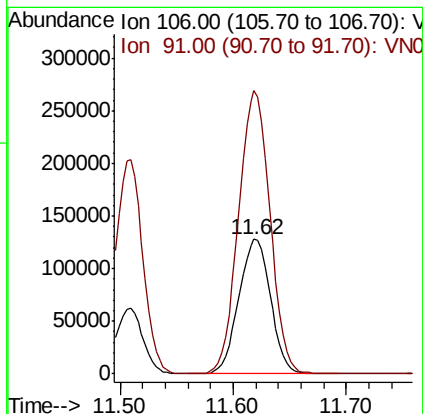
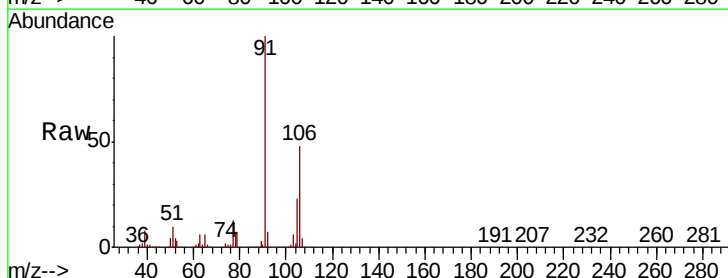
Acq: 14 Nov 2019 11:19

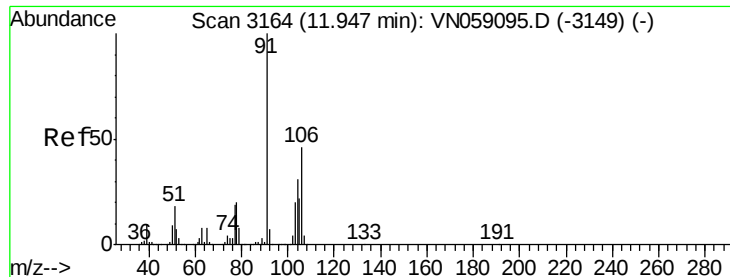
Tgt Ion: 106 Resp: 250653

Ion Ratio Lower Upper

106 100

91 207.9 164.7 247.1





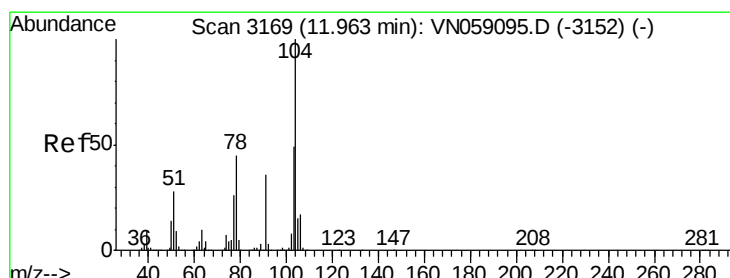
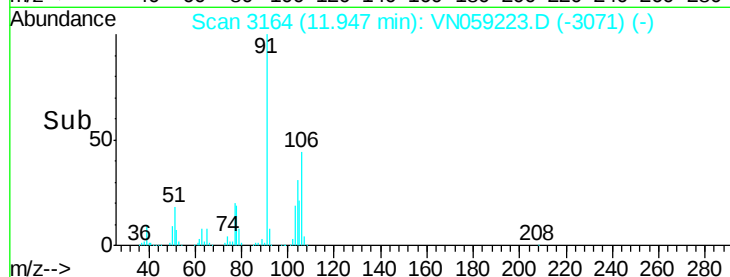
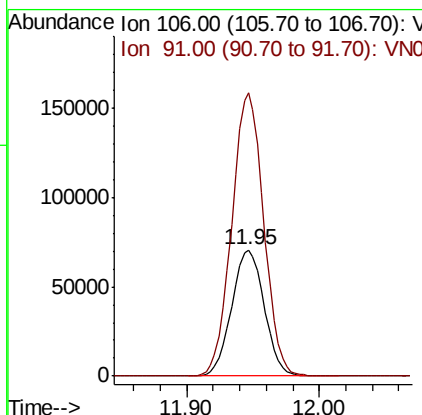
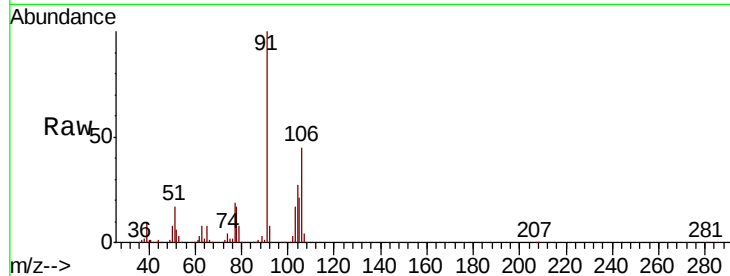
#69
o-Xylene
Concen: 18.570 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	120607		
91	91	219.2		110.1	330.3

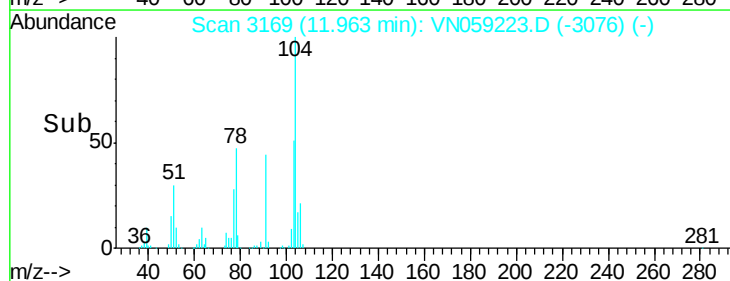
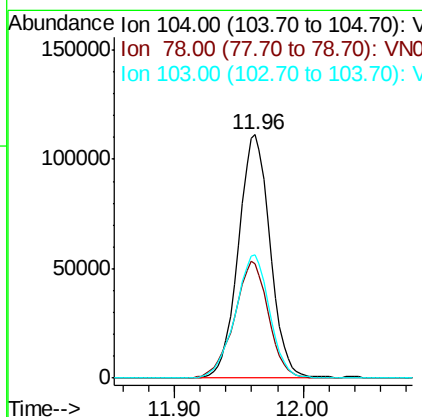
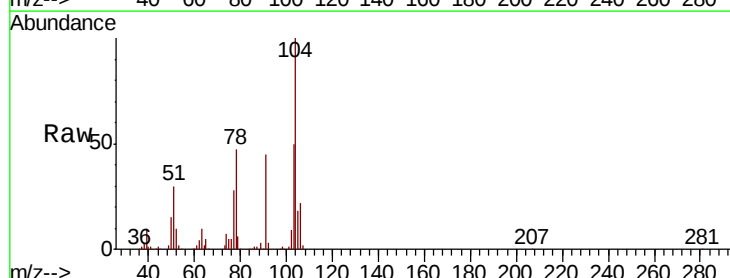
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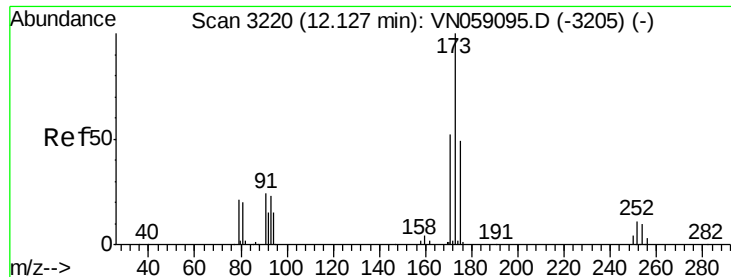
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#70
Styrene
Concen: 18.665 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	190653		
78	78	51.5		41.2	61.8
103	103	54.8		43.8	65.6





#71

Bromoform

Concen: 19.769 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

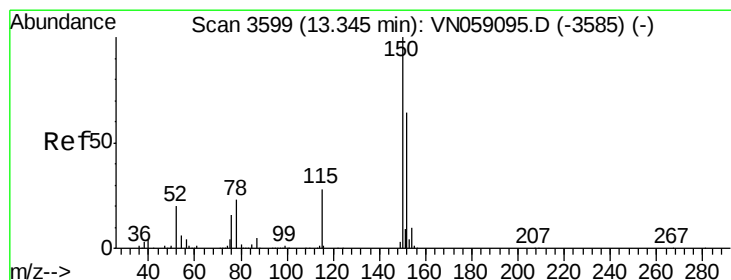
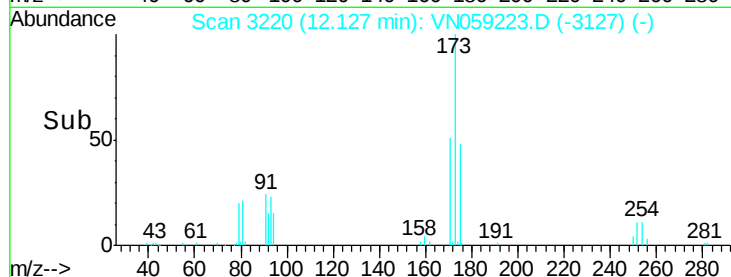
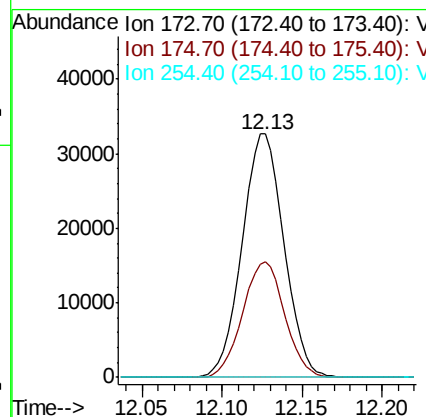
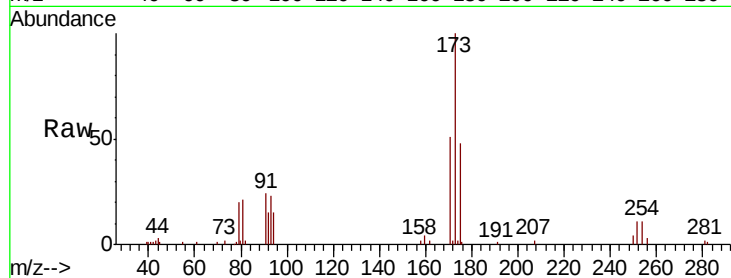
ClientSampleId :

VN1114WBS01

Tot Ion:	173	Resp:	58332
Ion Ratio	Lower	Upper	
173	100		
175	47.6	24.2	72.6
254	0.0	0.1	0.1#

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

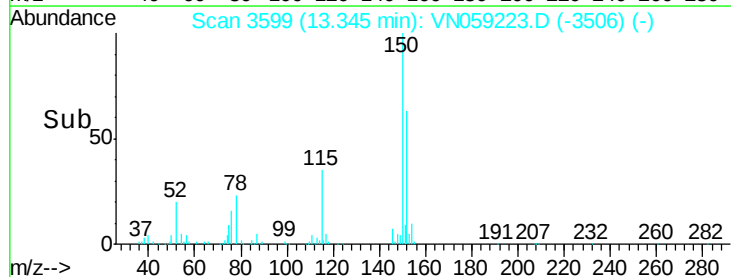
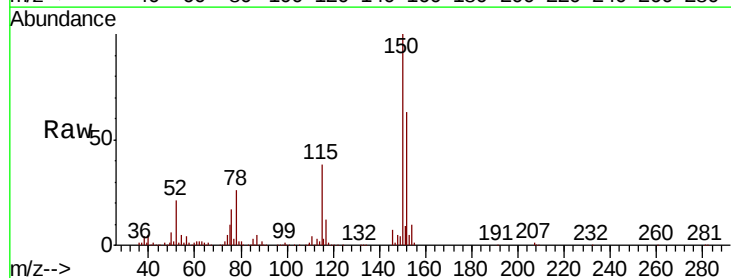
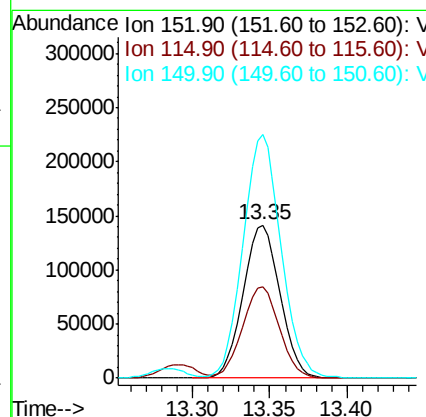
RT: 13.35 min Scan# 3599

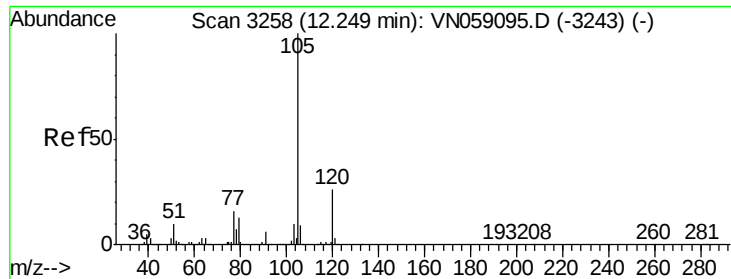
Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Tgt Ion:	152	Resp:	234992
Ion Ratio	Lower	Upper	
152	100		
115	59.3	29.4	88.2
150	163.4	0.0	345.8





#73

Isopropylbenzene

Concen: 19.158 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion: 105 Resp: 327477

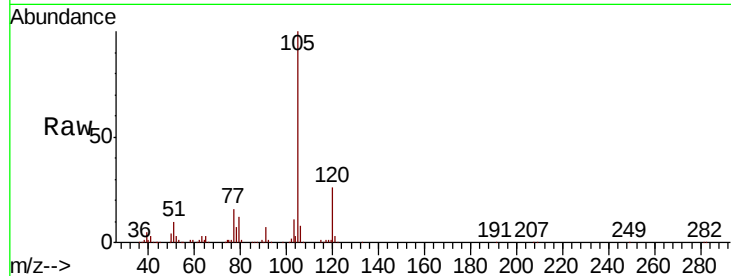
Ion Ratio Lower Upper

105 100

120 26.1 13.1 39.3

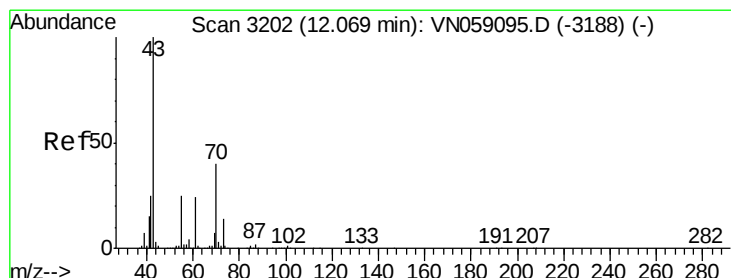
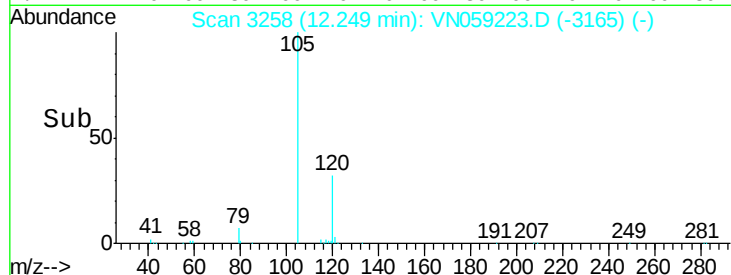
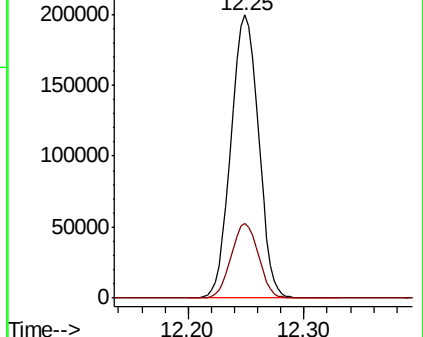
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 18.798 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Tgt Ion: 43 Resp: 136159

Ion Ratio Lower Upper

43 100

70 41.6 32.2 48.4

55 27.9 20.4 30.6

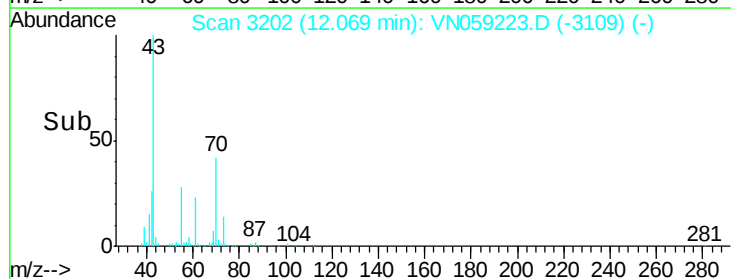
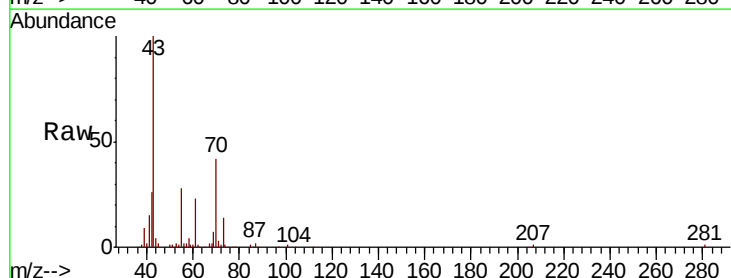
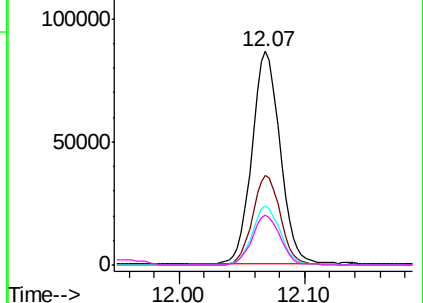
61 23.4 19.3 28.9

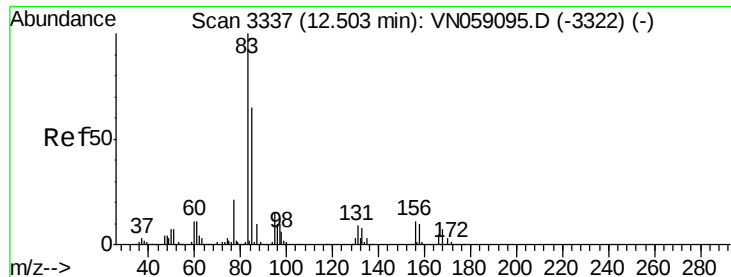
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 21.027 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

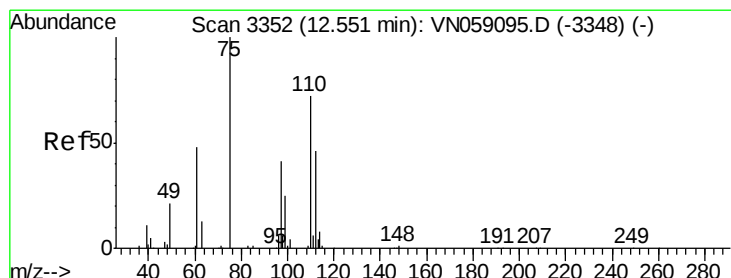
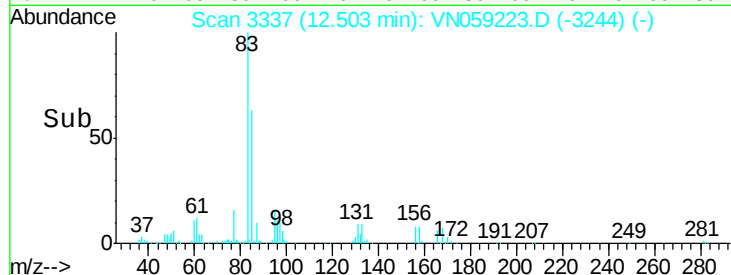
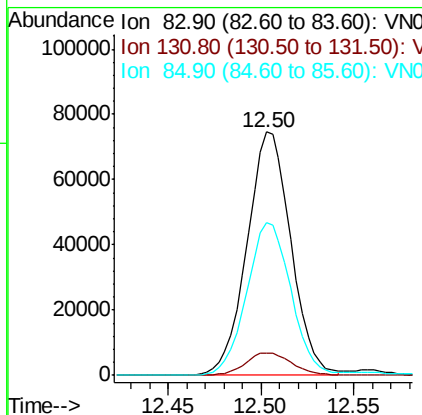
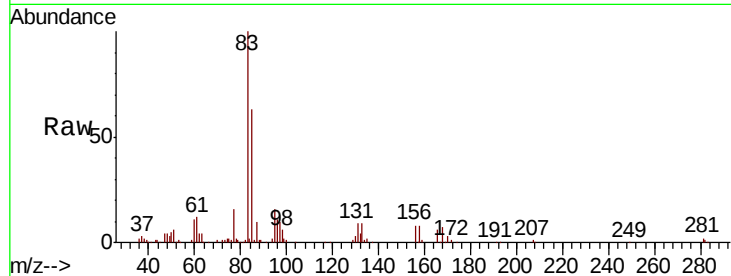
ClientSampleId :

VN1114WBS01

Tot Ion:	83	Resp:	122403
Ion Ratio	Lower	Upper	
83	100		
131	9.7	4.9	14.6
85	63.2	32.4	97.2

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#76

1,2,3-Trichloropropane

Concen: 19.912 ug/l m

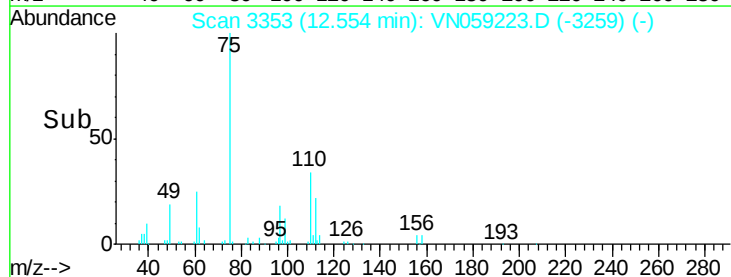
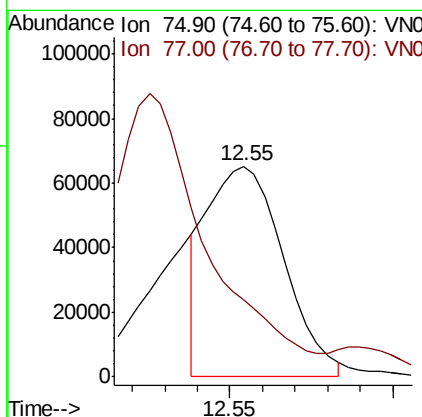
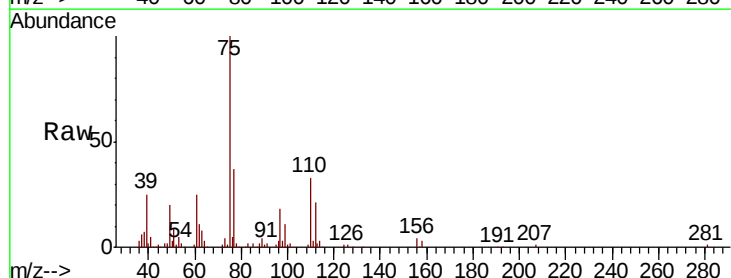
RT: 12.55 min Scan# 3353

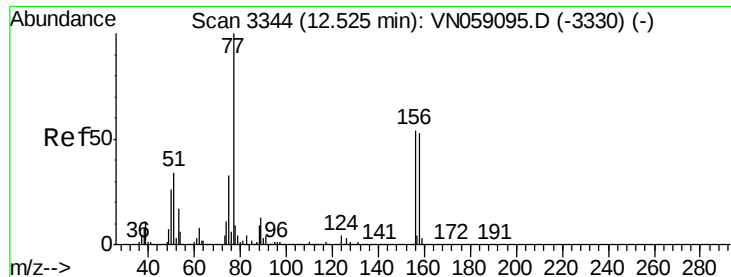
Delta R.T. 0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Tgt Ion:	75	Resp:	106528
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.925 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

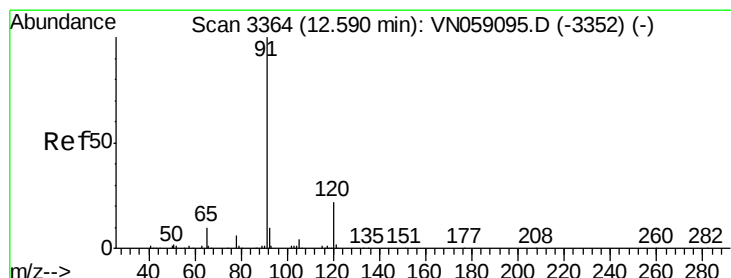
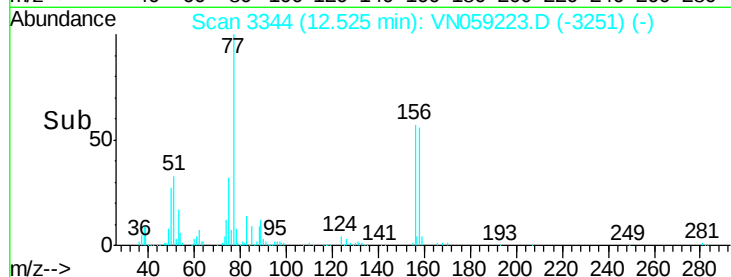
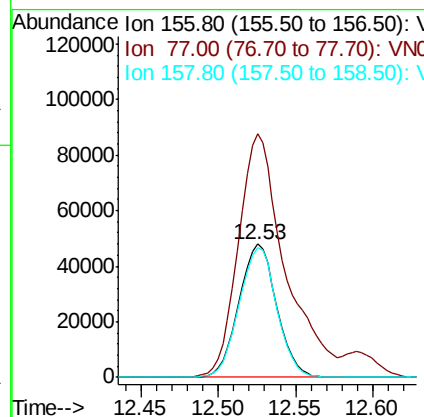
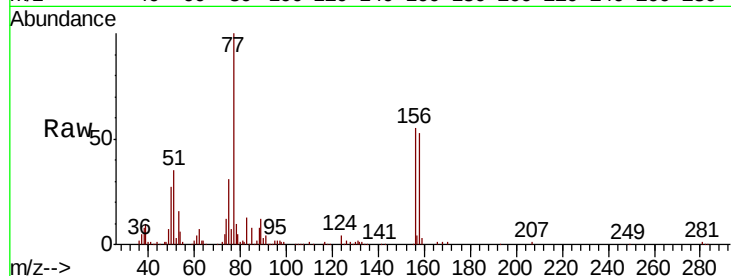
ClientSampleId :

VN1114WBS01

Tot Ion:	156	Resp:	81273
Ion Ratio	Lower	Upper	
156	100		
77	225.3	112.8	338.3
158	97.3	48.4	145.3

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#78

n-propylbenzene

Concen: 18.976 ug/l

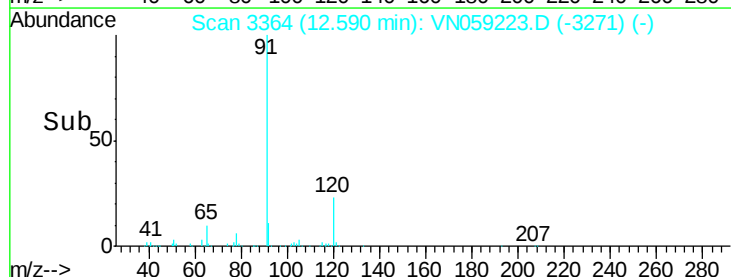
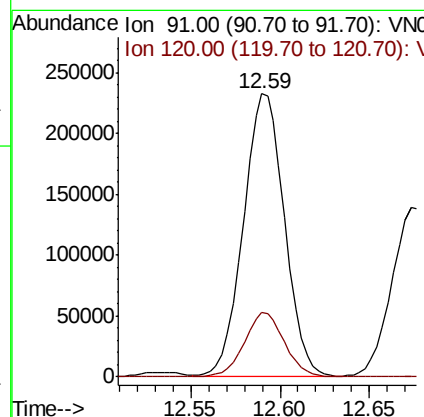
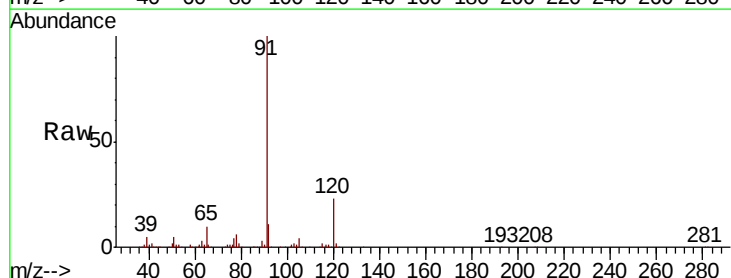
RT: 12.59 min Scan# 3364

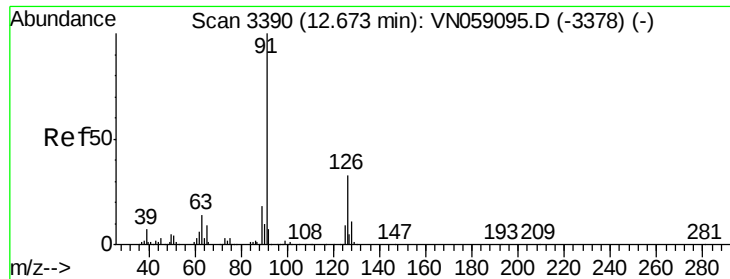
Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Tgt Ion:	91	Resp:	371389
Ion Ratio	Lower	Upper	
91	100		
120	22.3	11.2	33.5





#79

2-Chlorotoluene

Concen: 18.876 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

ClientSampleId :

VN1114WBS01

Tot Ion: 91 Resp: 229179

Ion Ratio Lower Upper

91 100

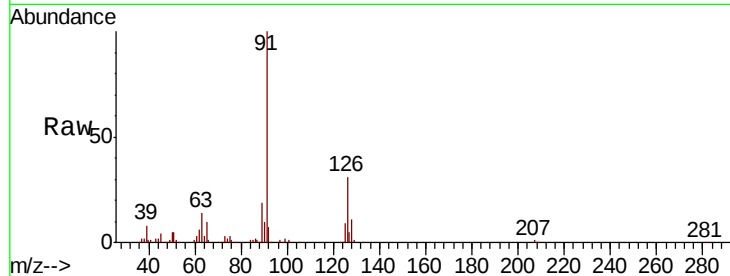
126 32.9 16.7 50.1

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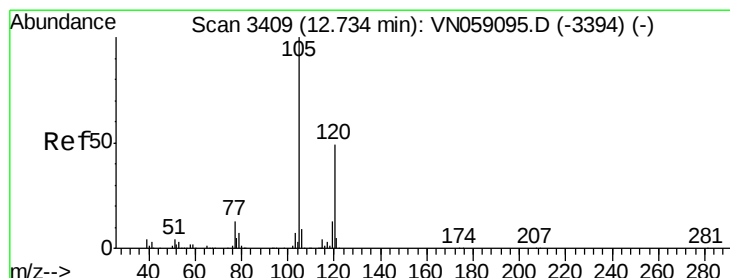
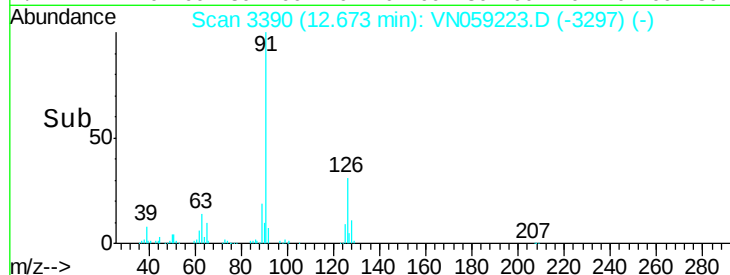
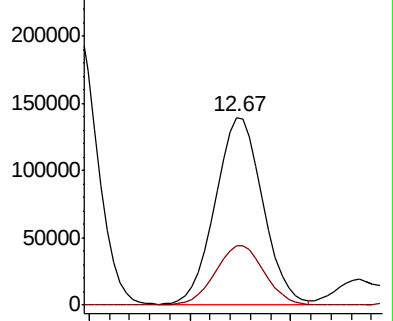
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Abundance Ion 91.00 (90.70 to 91.70): VN059223.D (-3397) (-)

Ion 125.90 (125.60 to 126.60): VN059223.D (-3397) (-)



#80

1,3,5-Trimethylbenzene

Concen: 18.955 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059223.D

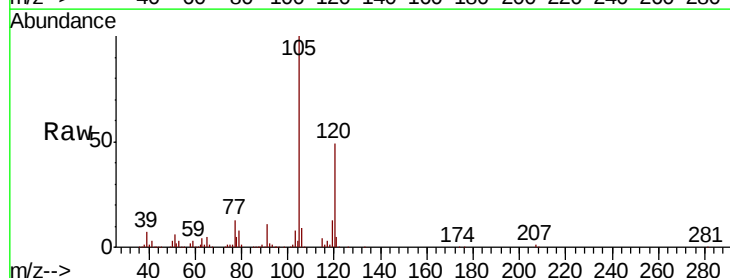
Acq: 14 Nov 2019 11:19

Tgt Ion: 105 Resp: 274552

Ion Ratio Lower Upper

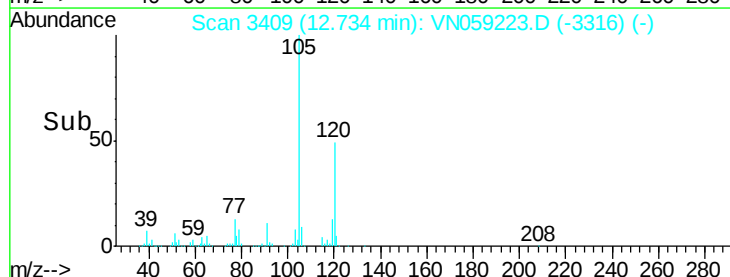
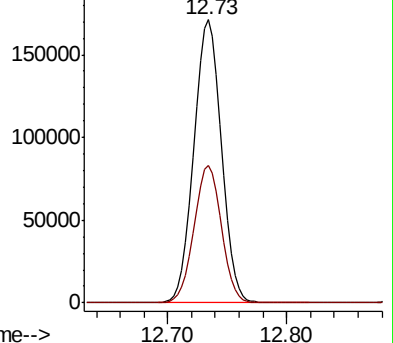
105 100

120 48.4 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): VN059223.D (-3316) (-)

Ion 120.00 (119.70 to 120.70): VN059223.D (-3316) (-)





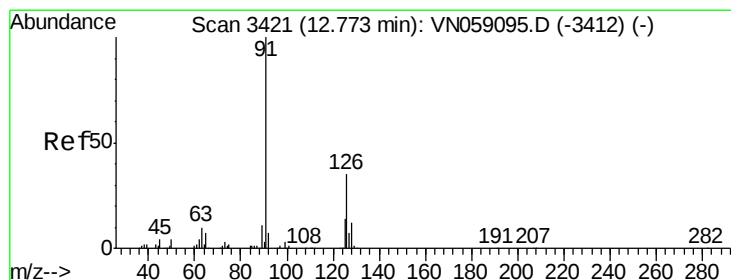
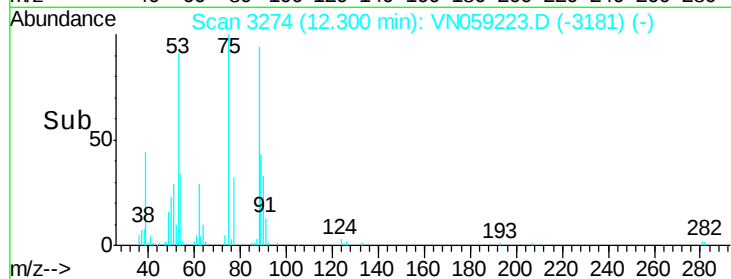
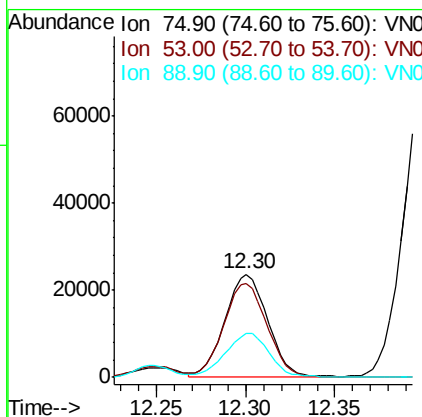
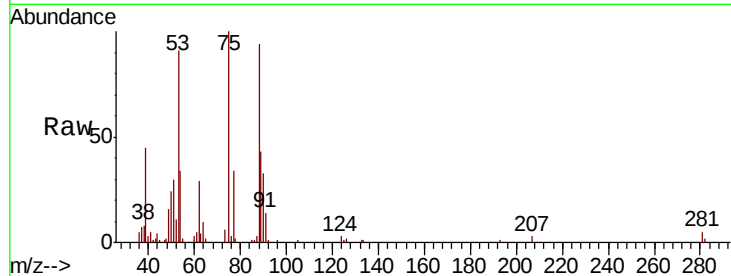
#81
trans-1,4-Dichloro-2-butene
Concen: 19.448 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	91.3	72.2	108.2
89	44.2	35.8	53.8

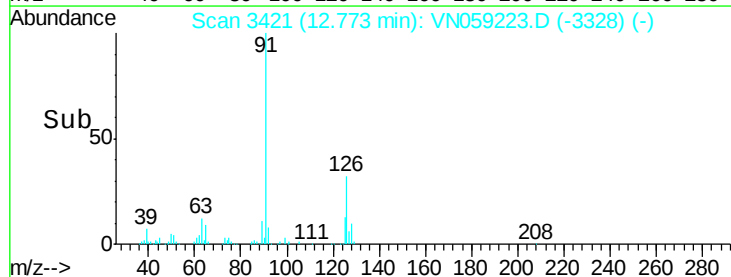
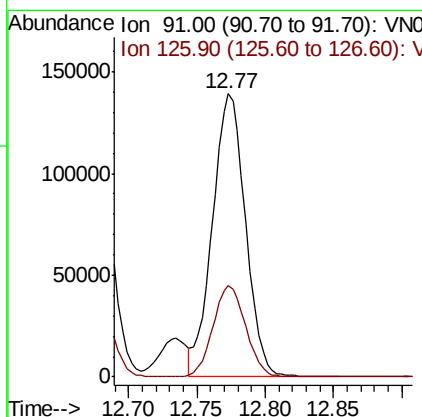
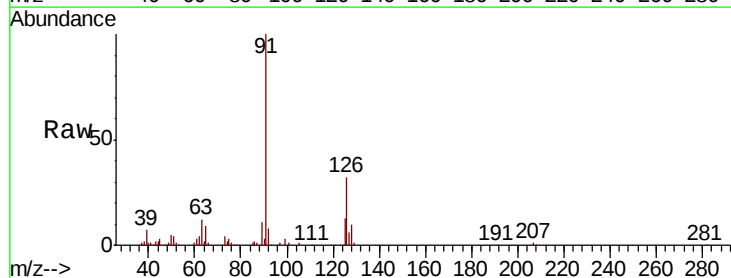
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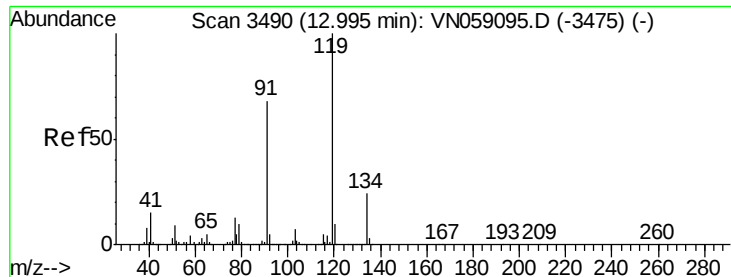
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#82
4-Chlorotoluene
Concen: 19.112 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.1	48.2





#83

tert-Butylbenzene

Concen: 18.742 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Instrument :

MSVOA_N

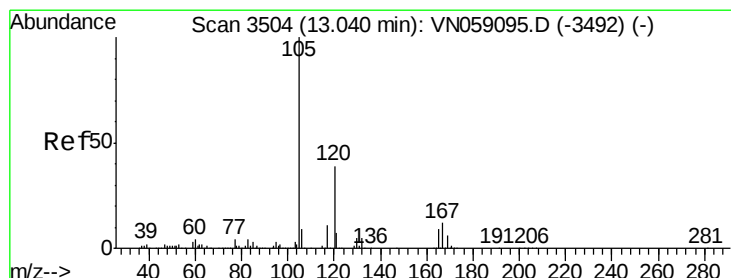
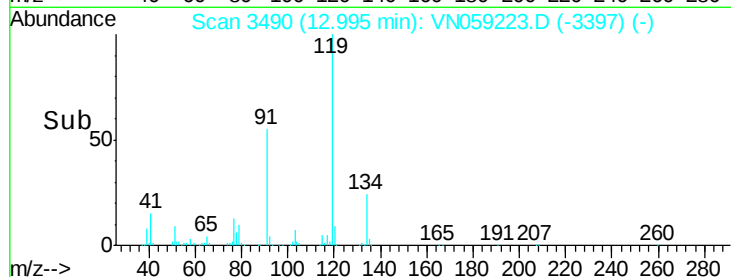
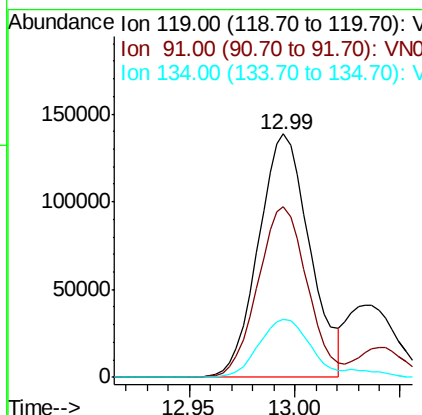
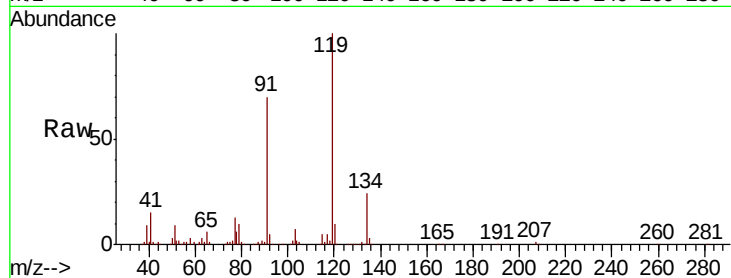
ClientSampleId :

VN1114WBS01

Tot Ion:	119	Resp:	234426
Ion Ratio	Lower	Upper	
119	100		
91	67.9	33.2	99.6
134	23.9	12.7	38.1

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#84

1,2,4-Trimethylbenzene

Concen: 19.256 ug/l

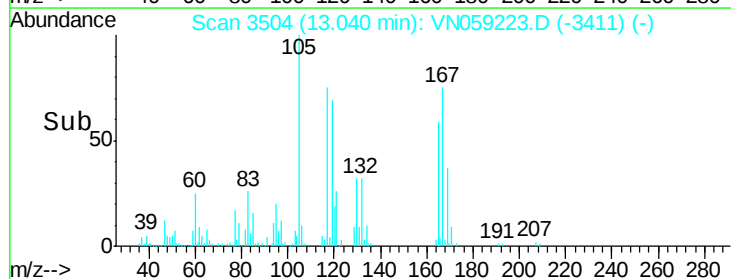
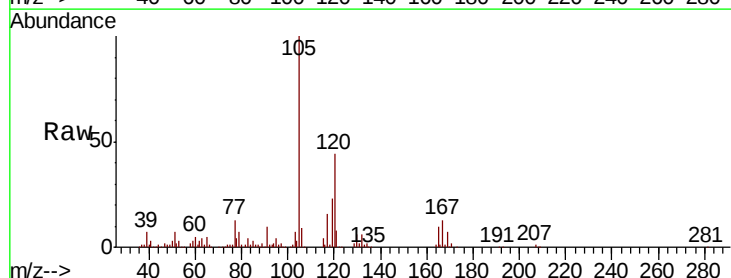
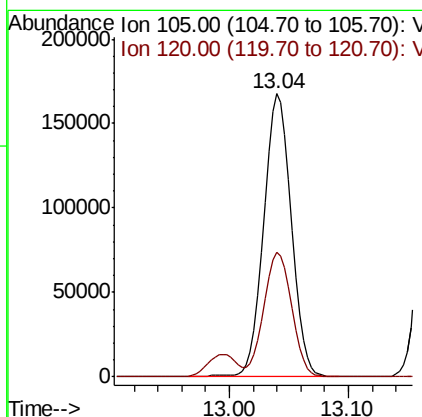
RT: 13.04 min Scan# 3504

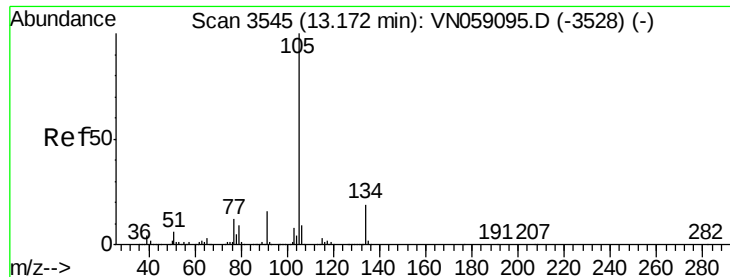
Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Tgt Ion:	105	Resp:	269846
Ion Ratio	Lower	Upper	
105	100		
120	44.3	22.8	68.4





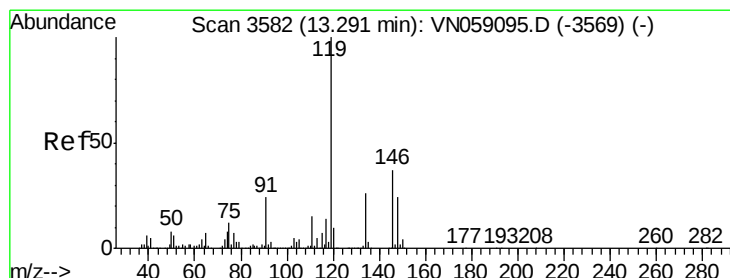
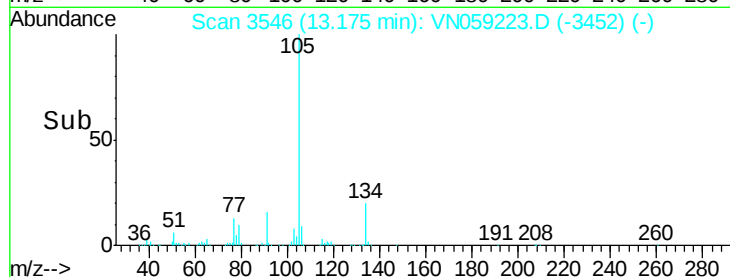
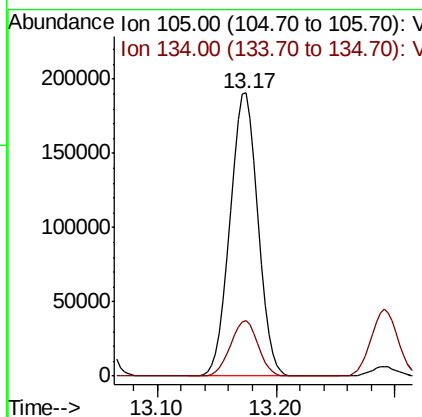
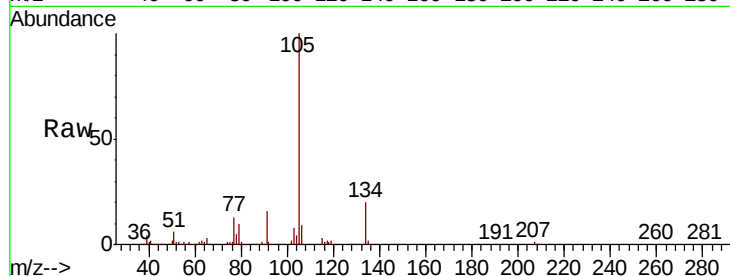
#85
 sec-Butylbenzene
 Concen: 18.989 ug/l
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	308900		
134	19.4	9.7	29.1	

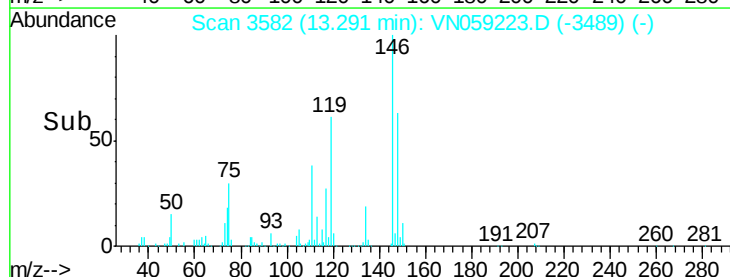
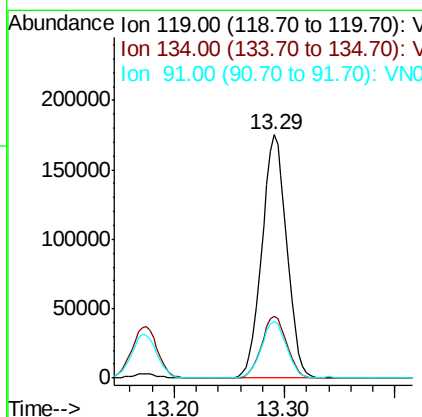
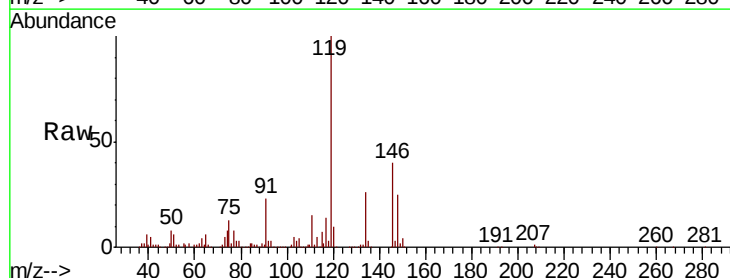
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#86
 p-Isopropyltoluene
 Concen: 19.085 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	274126		
134	25.6	13.0	38.9	
91	23.7	11.7	35.1	





#87

1,3-Dichlorobenzene

Concen: 18.890 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059223.D

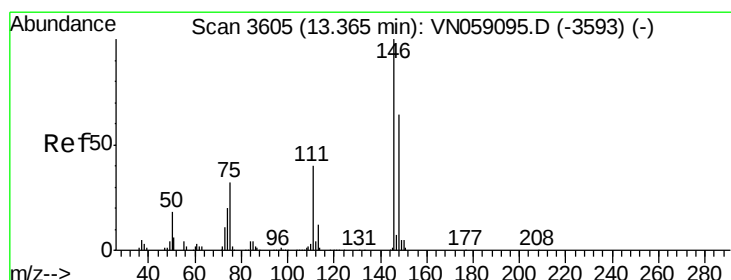
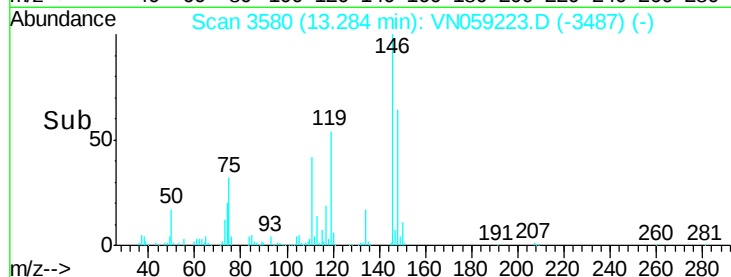
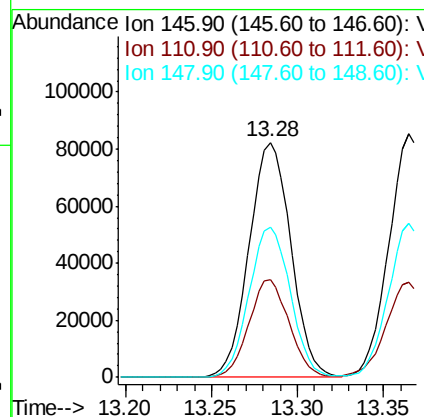
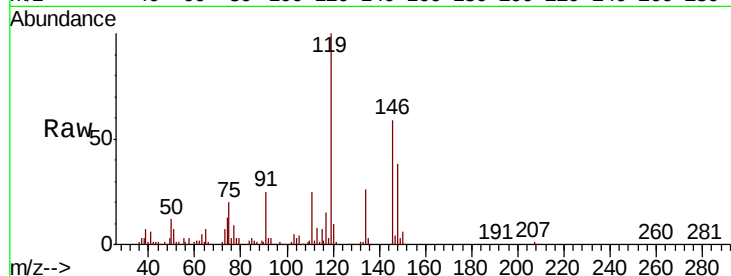
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.4	61.3
148	63.3	32.2	96.6

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#88

1,4-Dichlorobenzene

Concen: 18.600 ug/l

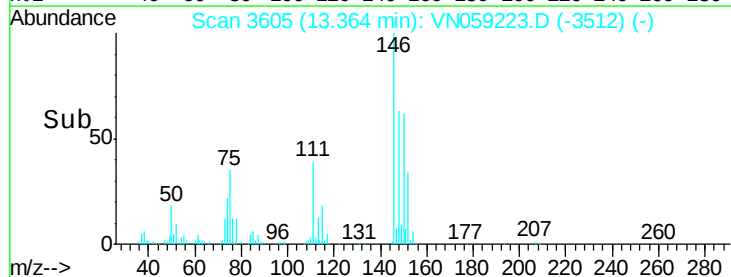
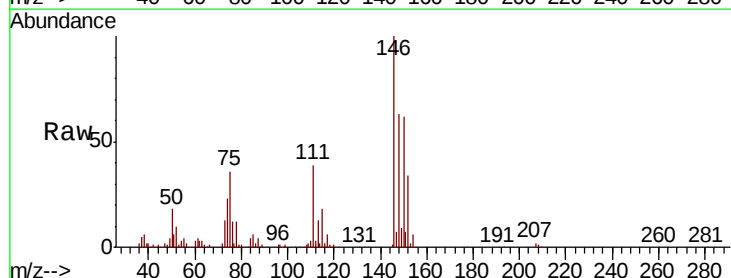
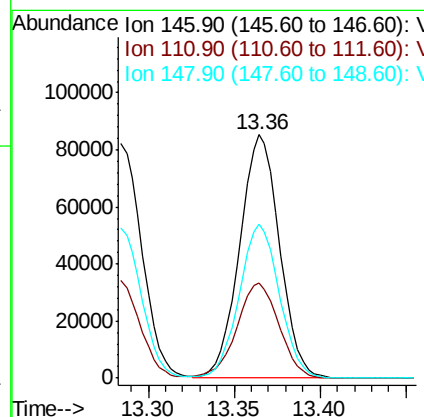
RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN059223.D

Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.3	60.9
148	64.5	31.9	95.7





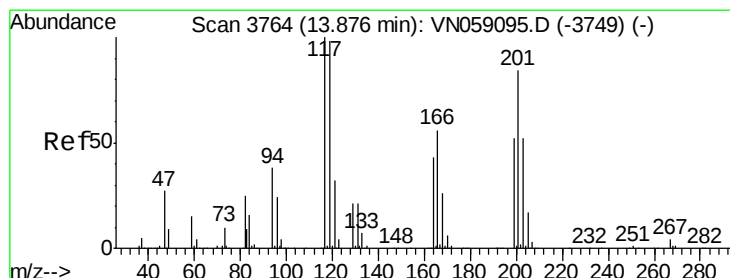
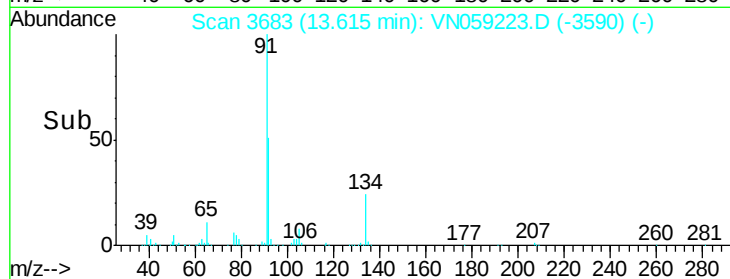
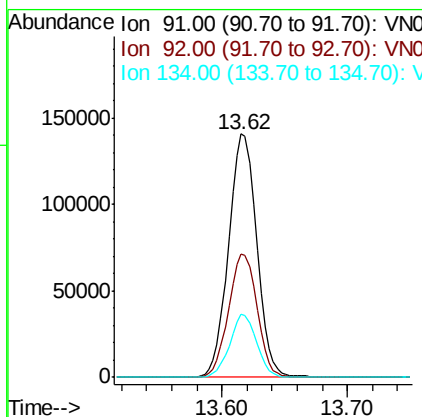
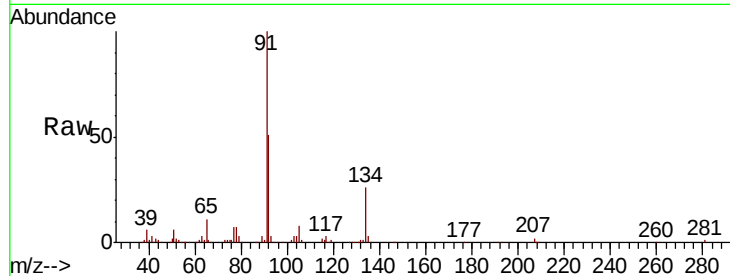
#89
n-Butylbenzene
Concen: 17.554 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.1	26.1	78.3
134	24.6	12.6	37.8

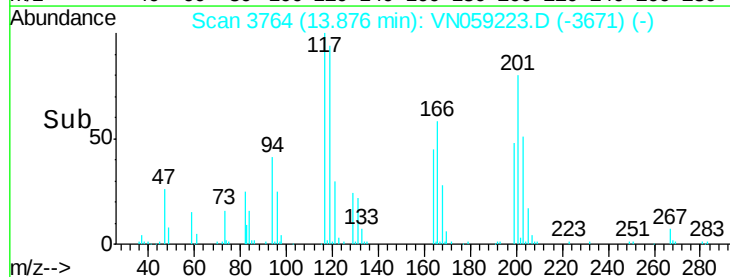
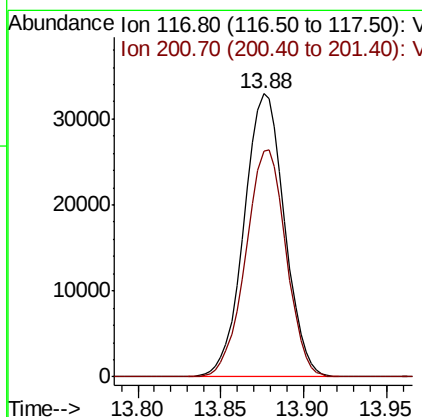
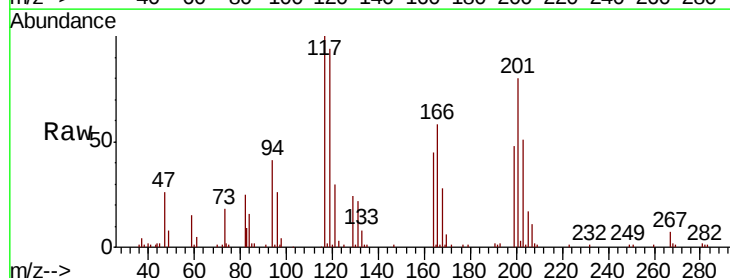
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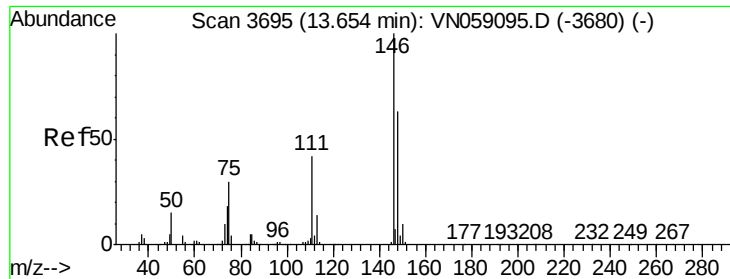
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#90
Hexachloroethane
Concen: 19.370 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
117	100		
201	79.7	41.8	125.3





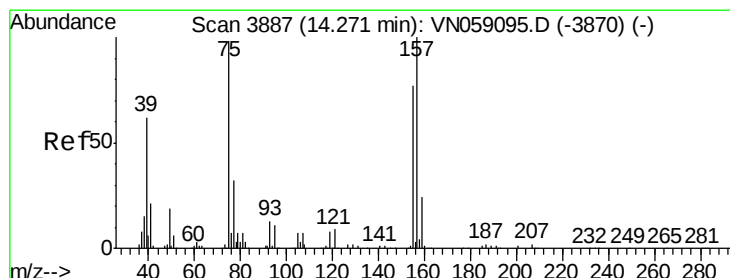
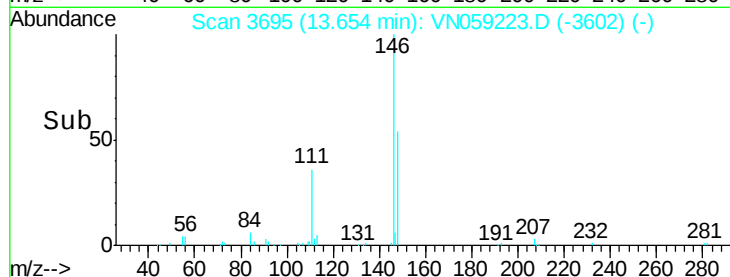
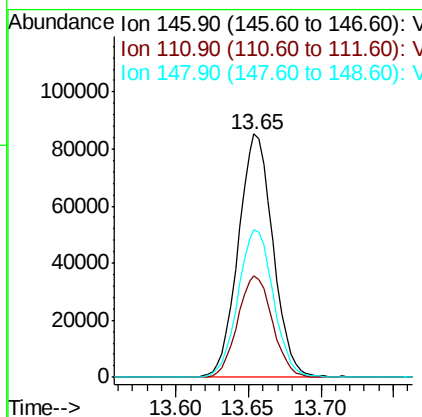
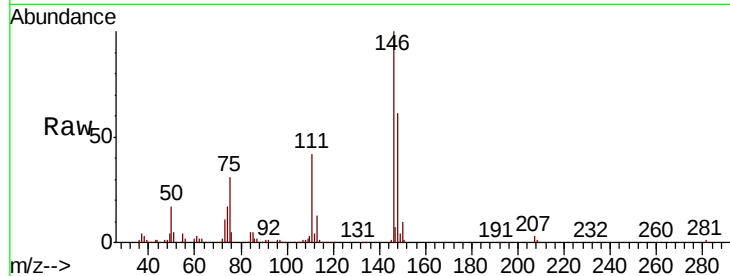
#91
 1,2-Dichlorobenzene
 Concen: 19.621 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.2	63.6
148	61.9	31.6	94.7

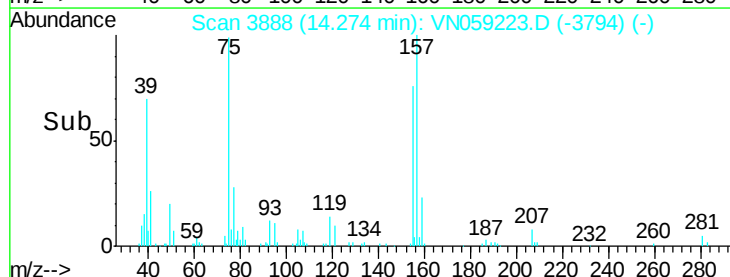
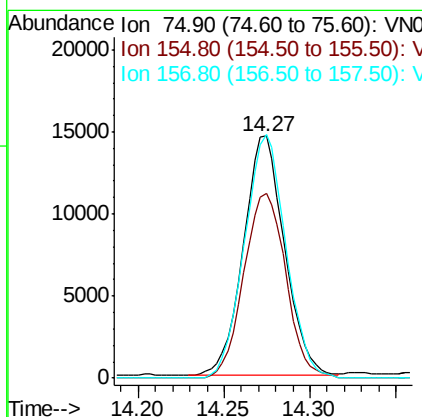
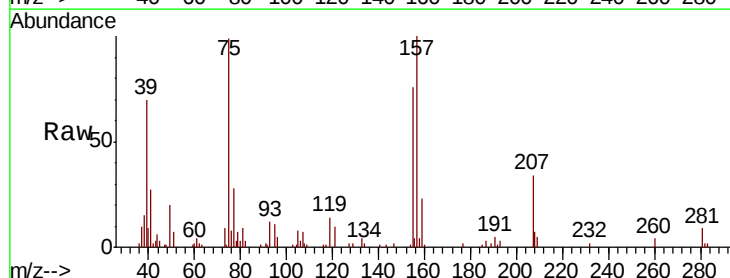
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 20.767 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.3	40.2	120.6
157	103.1	51.8	155.5





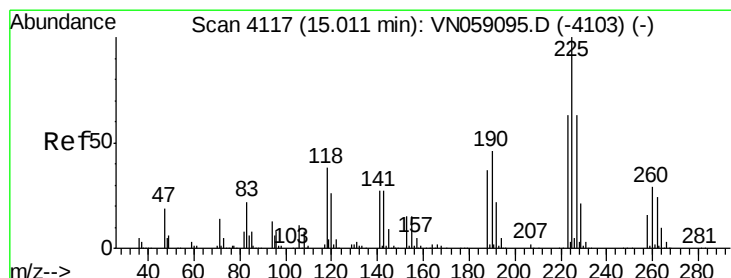
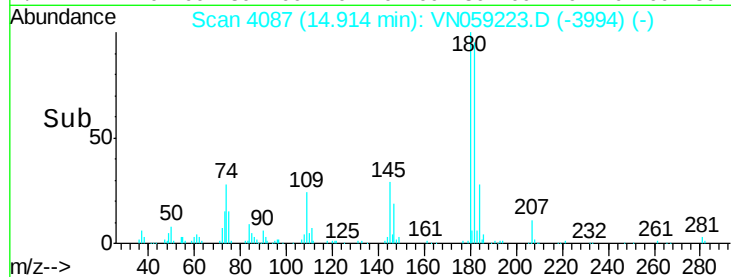
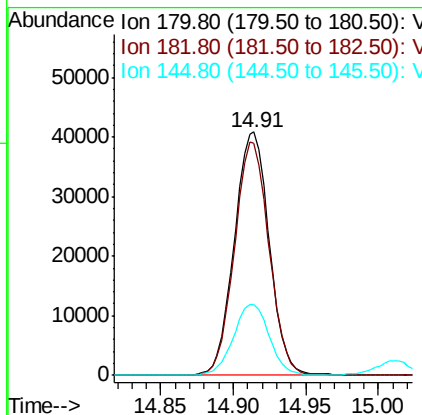
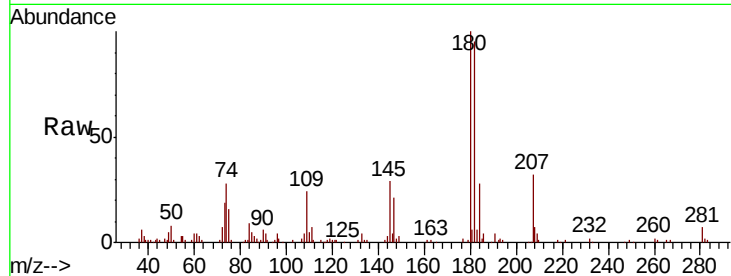
#93
 1,2,4-Trichlorobenzene
 Concen: 17.653 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114WBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	48.1	144.3
145	29.7	15.1	45.3

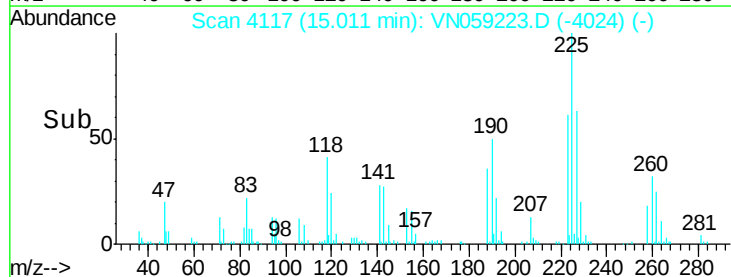
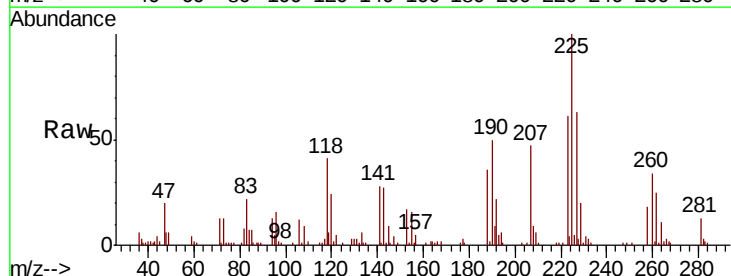
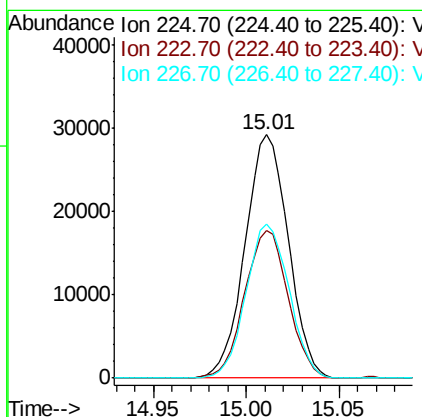
Manual Integrations
 APPROVED

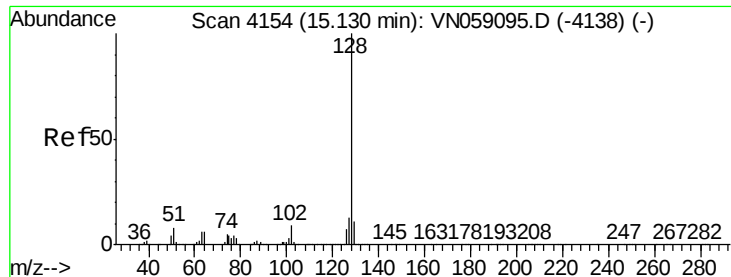
MMDadoda
 11/15/2019 10:21:47 AM



#94
 Hexachlorobutadiene
 Concen: 18.939 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN059223.D
 Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.2	31.3	93.9
227	62.8	31.5	94.5





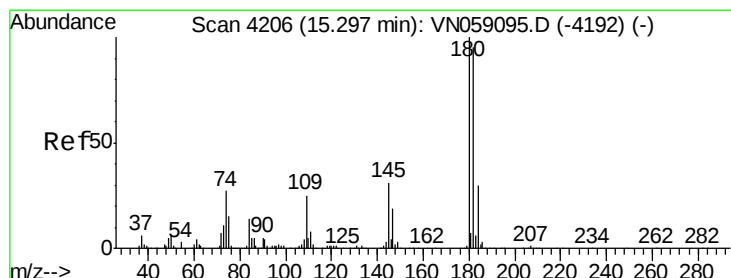
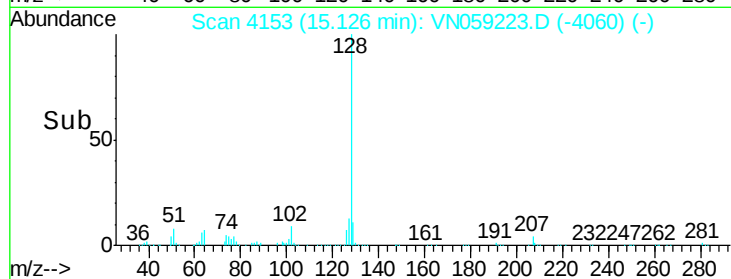
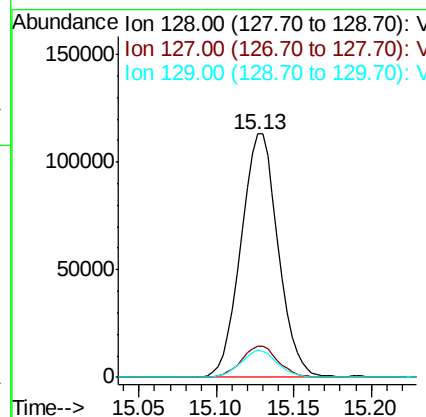
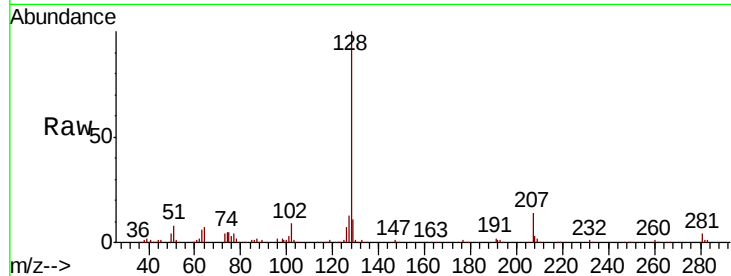
#95
Naphthalene
Concen: 17.630 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Instrument :
MSVOA_N
ClientSampleId :
VN1114WBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.8	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/15/2019 10:21:47 AM



#96
1,2,3-Trichlorobenzene
Concen: 18.010 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. -0.00 min
Lab File: VN059223.D
Acq: 14 Nov 2019 11:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.3	141.8
145	32.7	15.8	47.3

