

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111419\
 Data File : VN059228.D
 Acq On : 14 Nov 2019 13:09
 Operator : JC/SP
 Sample : VN1114MBS01
 Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Manual Integrations
 APPROVED

MMDadoda
 11/15/2019 10:21:58 AM

Quant Time: Nov 15 07:01:50 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	7.64	168	381467	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	600140	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	544667	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	244570	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	240469	51.28	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.56%	
35) Dibromofluoromethane	7.57	113	189573	52.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.80%	
50) Toluene-d8	10.08	98	705538	49.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.98%	
62) 4-Bromofluorobenzene	12.40	95	253073	49.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.46%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	69660	18.124	ug/l	100
3) Chloromethane	2.04	50	93342	17.866	ug/l	98
4) Vinyl Chloride	2.17	62	94408	18.638	ug/l	98
5) Bromomethane	2.54	94	57050	19.572	ug/l	98
6) Chloroethane	2.68	64	57321	19.130	ug/l	98
7) Trichlorofluoromethane	3.00	101	120899	19.955	ug/l	98
8) Diethyl Ether	3.39	74	48970	19.892	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.74	101	73766	20.193	ug/l	99
10) Methyl Iodide	3.93	142	84622	18.715	ug/l	98
11) Tert butyl alcohol	4.76	59	101043	113.066	ug/l	99
12) 1,1-Dichloroethene	3.72	96	68280	19.188	ug/l	97
13) Acrolein	3.58	56	32511	70.560	ug/l	95
14) Allyl chloride	4.30	41	136811	18.717	ug/l	99
15) Acrylonitrile	4.96	53	248027	111.522	ug/l	99
16) Acetone	3.79	43	209062	85.735	ug/l	99
17) Carbon Disulfide	4.03	76	187144	16.942	ug/l	99
18) Methyl Acetate	4.30	43	130565	22.558	ug/l	100
19) Methyl tert-butyl Ether	5.02	73	251778	20.551	ug/l	99
20) Methylene Chloride	4.53	84	83717	19.706	ug/l	99
21) trans-1,2-Dichloroethene	5.01	96	74830	19.591	ug/l	97
22) Diisopropyl ether	5.93	45	284281	20.590	ug/l	96
23) Vinyl Acetate	5.87	43	1172227	109.549	ug/l	99
24) 1,1-Dichloroethane	5.82	63	154306	20.010	ug/l	99
25) 2-Butanone	6.81	43	333108	103.650	ug/l	99
26) 2,2-Dichloropropane	6.80	77	127805	18.954	ug/l	99
27) cis-1,2-Dichloroethene	6.81	96	88300	19.926	ug/l	99
28) Bromochloromethane	7.17	49	49051	21.142	ug/l	99
29) Tetrahydrofuran	7.19	42	228603	111.949	ug/l	100
30) Chloroform	7.35	83	152678	20.639	ug/l	97
31) Cyclohexane	7.63	56	131811	18.056	ug/l	95
32) 1,1,1-Trichloroethane	7.55	97	128068	20.592	ug/l	100
36) 1,1-Dichloropropene	7.77	75	108774	19.391	ug/l	99
37) Ethyl Acetate	6.91	43	138045	22.121	ug/l	100
38) Carbon Tetrachloride	7.75	117	110212	19.740	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	117152	17.995	ug/l	100
40) Benzene	8.02	78	338216	20.022	ug/l	98
41) Methacrylonitrile	7.15	41	53381m	19.671	ug/l	
42) 1,2-Dichloroethane	8.10	62	120466	20.793	ug/l	99
43) Isopropyl Acetate	8.15	43	204493	20.554	ug/l	99
44) Trichloroethene	8.82	130	83972	20.222	ug/l	97
45) 1,2-Dichloropropane	9.10	63	94161	20.522	ug/l	99
46) Dibromomethane	9.19	93	57554	20.130	ug/l	99
47) Bromodichloromethane	9.39	83	117588	20.596	ug/l	96
48) Methyl methacrylate	9.18	41	91886	20.648	ug/l	99
49) 1,4-Dioxane	9.19	88	35379	447.355	ug/l	98
51) 4-Methyl-2-Pentanone	9.98	43	675316	119.964	ug/l	99
52) Toluene	10.15	92	201107	19.863	ug/l	99
53) t-1,3-Dichloropropene	10.37	75	129854	19.686	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	139726	19.693	ug/l	97
55) 1,1,2-Trichloroethane	10.55	97	84188	20.546	ug/l	97
56) Ethyl methacrylate	10.42	69	123612	19.283	ug/l	98
57) 1,3-Dichloropropane	10.70	76	147172	20.868	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.68	63	263632	115.607	ug/l	100
59) 2-Hexanone	10.75	43	488147	112.977	ug/l	100
60) Dibromochloromethane	10.90	129	89043	20.553	ug/l	99
61) 1,2-Dibromoethane	11.00	107	84495	20.370	ug/l	98
64) Tetrachloroethene	10.63	164	70686	19.085	ug/l	97
65) Chlorobenzene	11.43	112	213744	20.131	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	83255	20.903	ug/l	99
67) Ethyl Benzene	11.51	91	377891	20.060	ug/l	99
68) m/p-Xylenes	11.62	106	278043	39.402	ug/l	99
69) o-Xylene	11.95	106	135127	19.815	ug/l	99
70) Styrene	11.96	104	213356	19.893	ug/l	99
71) Bromoform	12.13	173	66171	21.359	ug/l #	98
73) Isopropylbenzene	12.25	105	361930	20.344	ug/l	100
74) N-amyl acetate	12.07	43	155659	20.649	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.51	83	133411	22.021	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	118077m	21.206	ug/l	
77) Bromobenzene	12.53	156	88491	19.798	ug/l	98
78) n-propylbenzene	12.59	91	417109	20.477	ug/l	100
79) 2-Chlorotoluene	12.67	91	256899	20.330	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	305170	20.244	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	43879	20.815	ug/l	98
82) 4-Chlorotoluene	12.77	91	252283	19.906	ug/l	98
83) tert-Butylbenzene	12.99	119	262970	20.200	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	299159	20.512	ug/l	100
85) sec-Butylbenzene	13.17	105	341773	20.187	ug/l	100
86) p-Isopropyltoluene	13.29	119	302020	20.203	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	154424	20.176	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	149557	19.530	ug/l	99
89) n-Butylbenzene	13.62	91	243018	18.574	ug/l	99
90) Hexachloroethane	13.88	117	61989	20.651	ug/l	93
91) 1,2-Dichlorobenzene	13.66	146	154516	20.522	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	27075	22.415	ug/l	98

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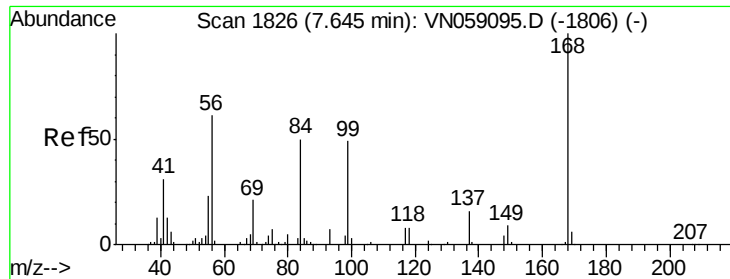
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	74958	18.456	ug/l	99
94) Hexachlorobutadiene	15.01	225	50213	19.342	ug/l	99
95) Naphthalene	15.13	128	223503	19.606	ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	79880	18.931	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion:168 Resp: 381467

Ion Ratio Lower Upper

168 100

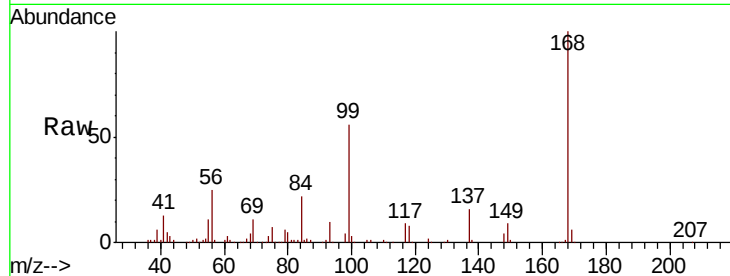
99 55.8 45.7 68.5

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

150000

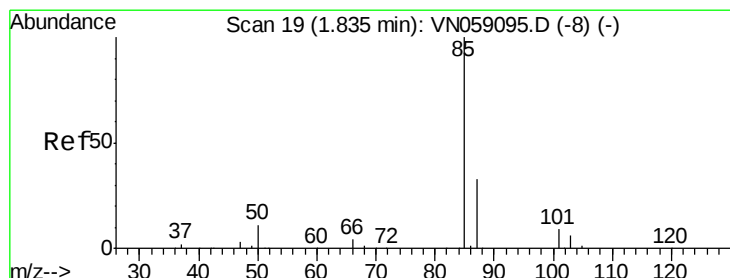
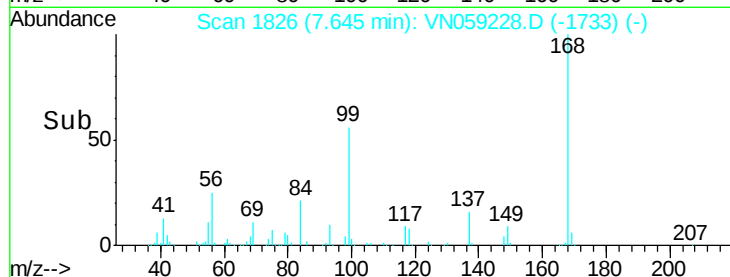
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 18.124 ug/l

RT: 1.83 min Scan# 19

Delta R.T. -0.00 min

Lab File: VN059228.D

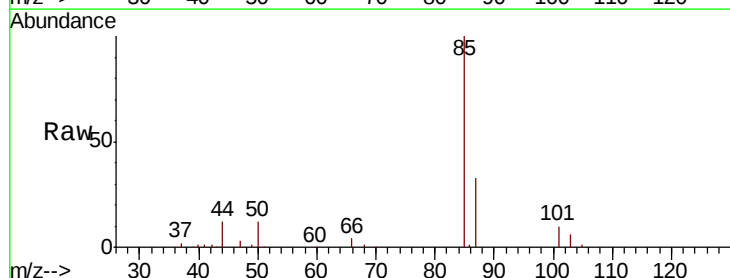
Acq: 14 Nov 2019 13:09

Tgt Ion: 85 Resp: 69660

Ion Ratio Lower Upper

85 100

87 32.7 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN

1.83

50000

40000

30000

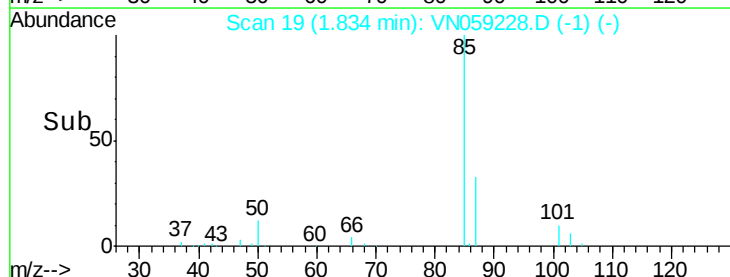
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10000

0

1.75 1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 17.866 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 50 Resp: 93342

Ion Ratio Lower Upper

50 100

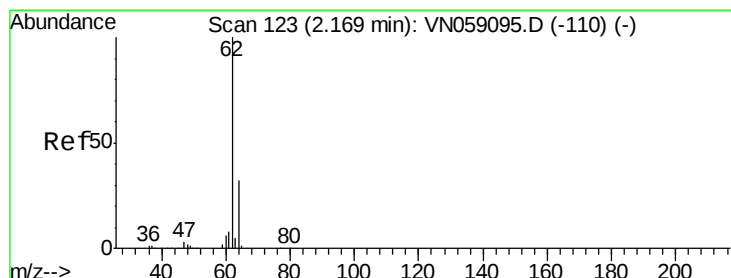
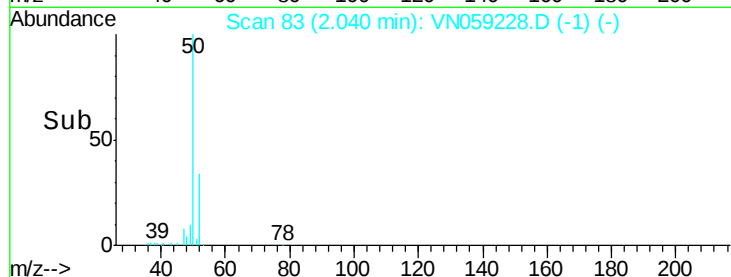
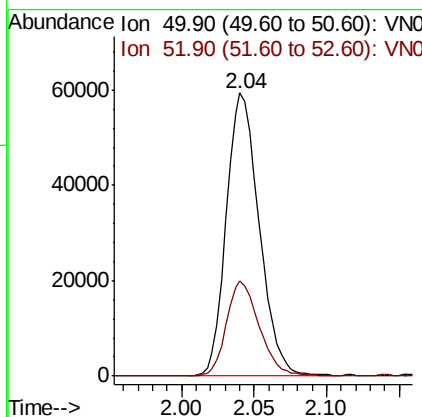
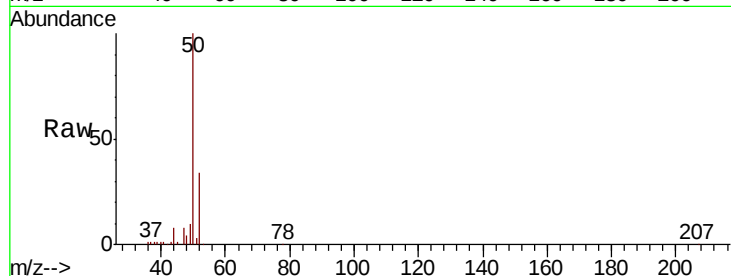
52 33.6 26.0 39.0

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#4

Vinyl Chloride

Concen: 18.638 ug/l

RT: 2.17 min Scan# 123

Delta R.T. -0.00 min

Lab File: VN059228.D

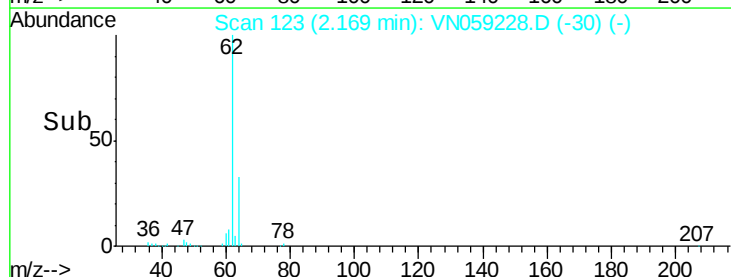
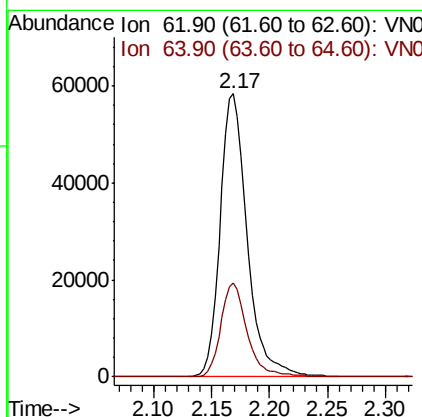
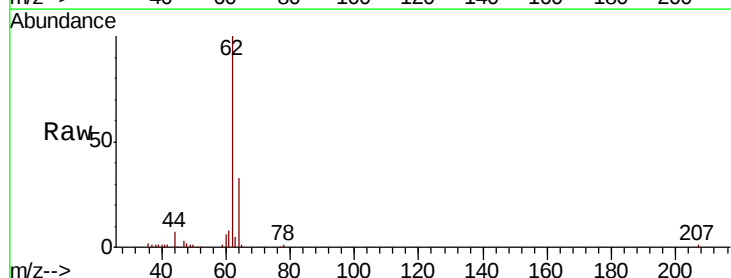
Acq: 14 Nov 2019 13:09

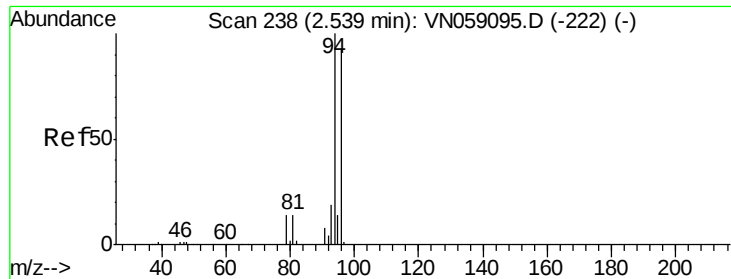
Tgt Ion: 62 Resp: 94408

Ion Ratio Lower Upper

62 100

64 33.1 25.4 38.2





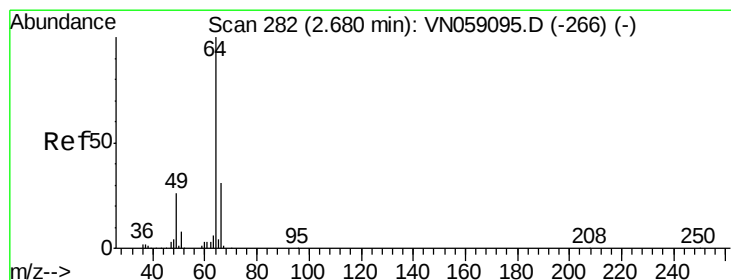
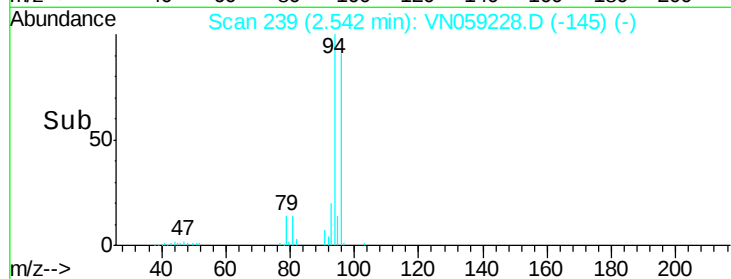
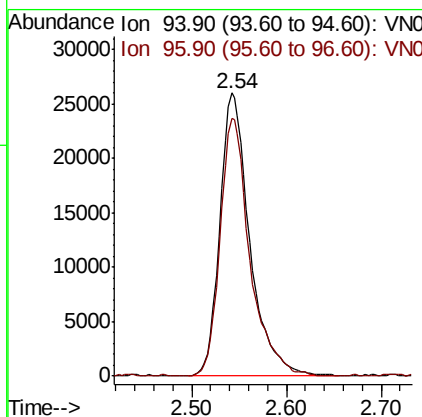
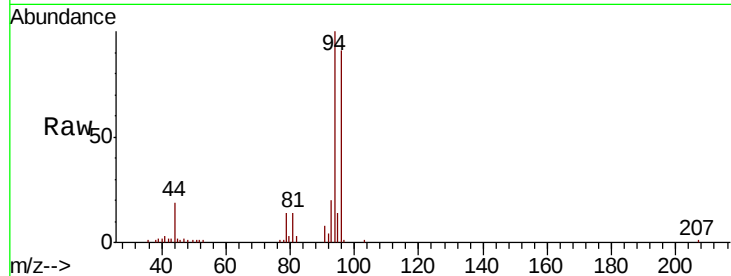
#5
Bromomethane
Concen: 19.572 ug/l
RT: 2.54 min Scan# 239
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
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Tot Ion: 94 Resp: 57050
Ion Ratio Lower Upper
94 100
96 91.1 74.2 111.2

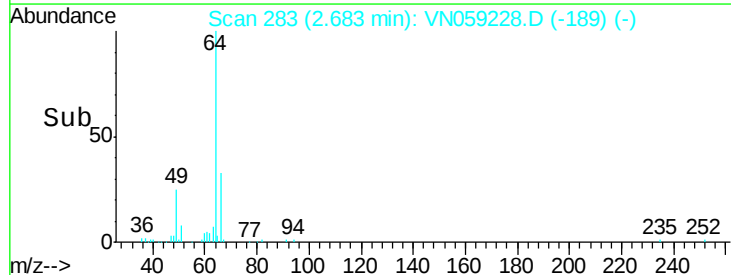
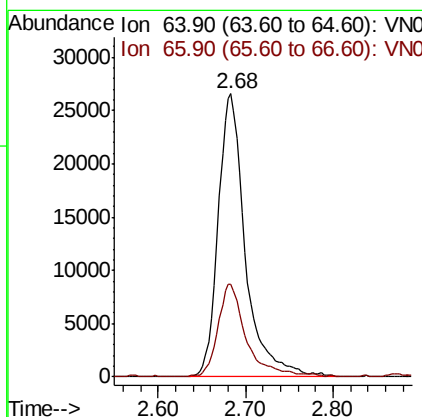
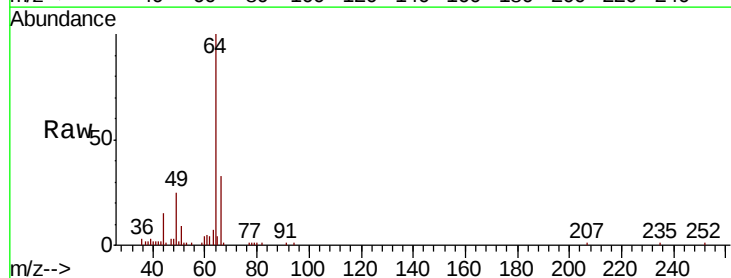
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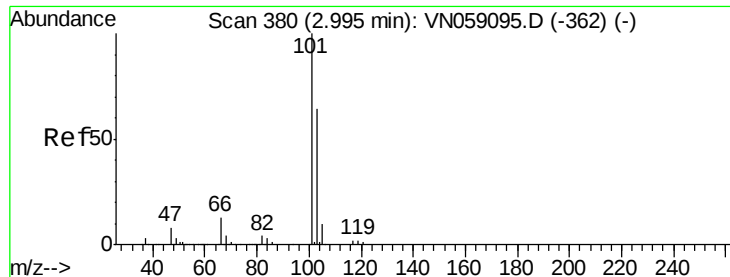
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#6
Chloroethane
Concen: 19.130 ug/l
RT: 2.68 min Scan# 283
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 64 Resp: 57321
Ion Ratio Lower Upper
64 100
66 32.6 25.2 37.8





#7

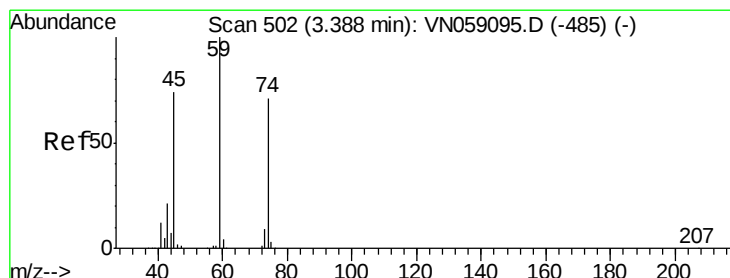
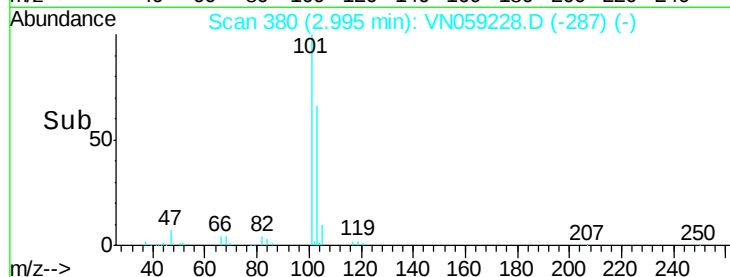
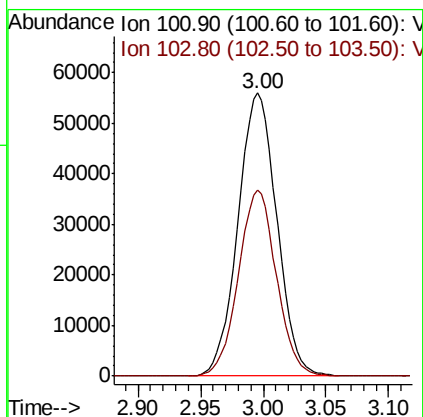
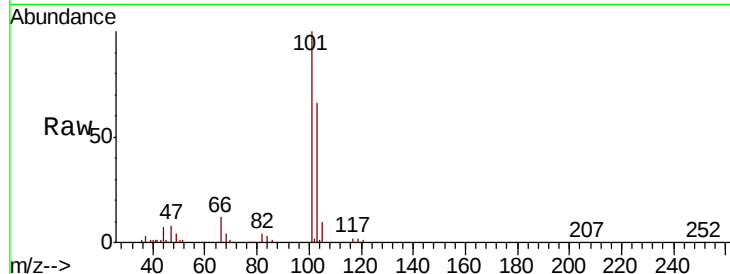
Trichlorofluoromethane
Concen: 19.955 ug/l
RT: 3.00 min Scan# 380
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

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ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.9	51.2	76.8

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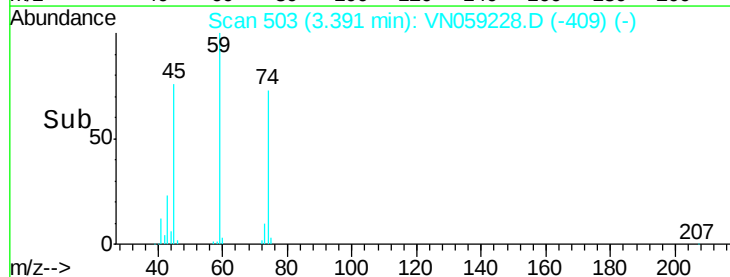
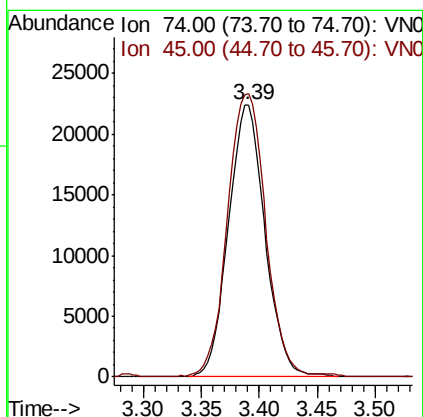
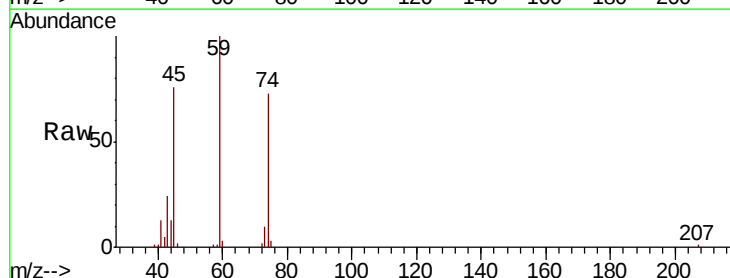
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11/15/2019 10:21:58 AM



#8

Diethyl Ether
Concen: 19.892 ug/l
RT: 3.39 min Scan# 503
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
74	100		
45	108.8	51.6	154.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.193 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

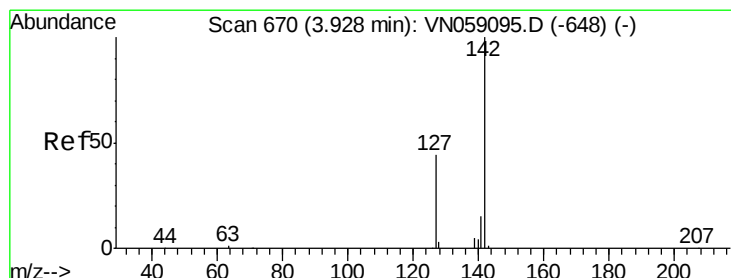
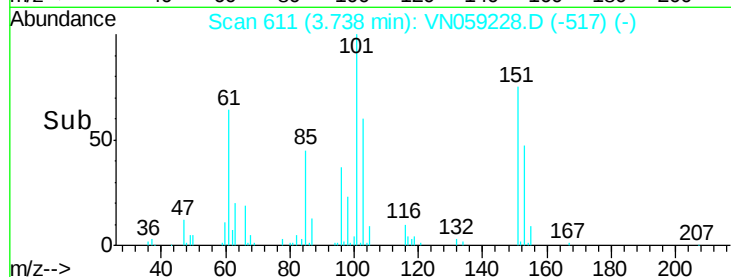
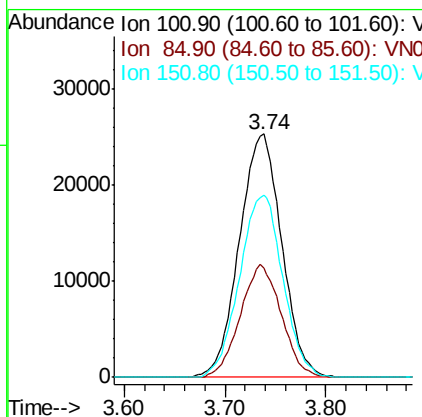
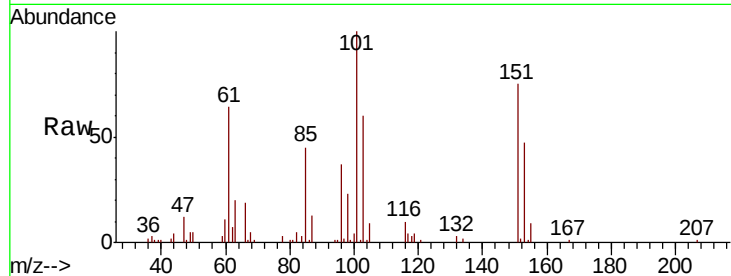
ClientSampleId :

VN1114MBS01

Tot Ion:	101	Resp:	73766
Ion Ratio	Lower	Upper	
101	100		
85	44.8	35.5	53.3
151	76.4	62.2	93.2

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#10

Methyl Iodide

Concen: 18.715 ug/l

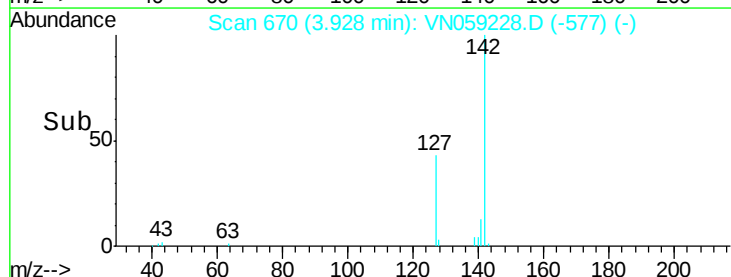
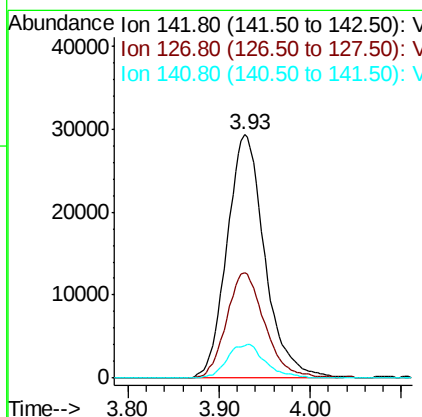
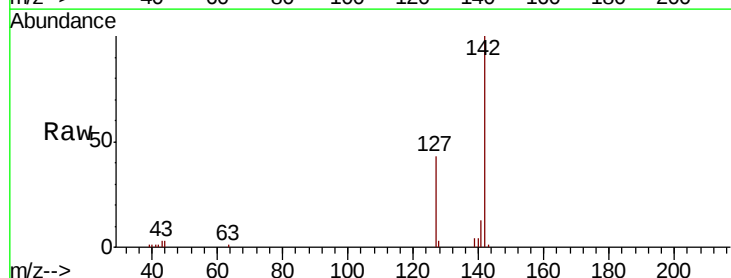
RT: 3.93 min Scan# 670

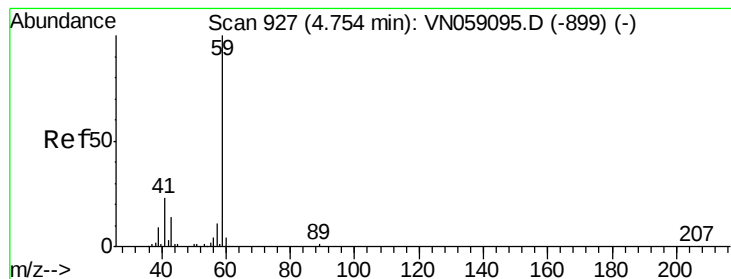
Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion:	142	Resp:	84622
Ion Ratio	Lower	Upper	
142	100		
127	43.8	34.2	51.2
141	13.9	11.4	17.0





#11

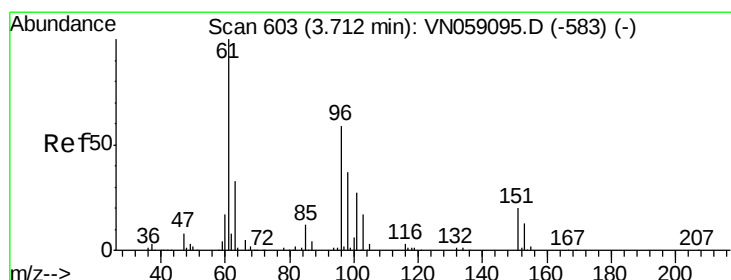
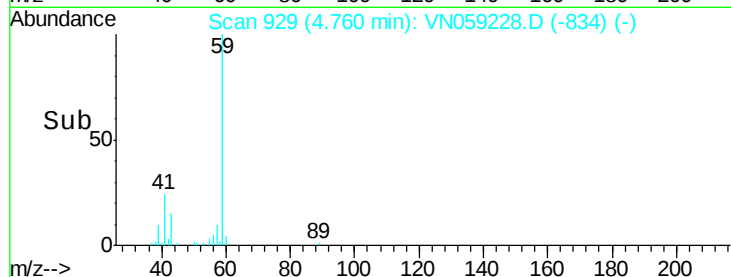
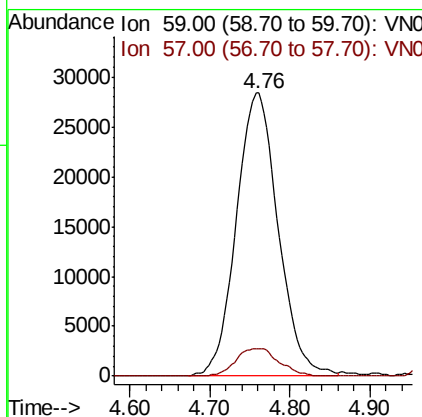
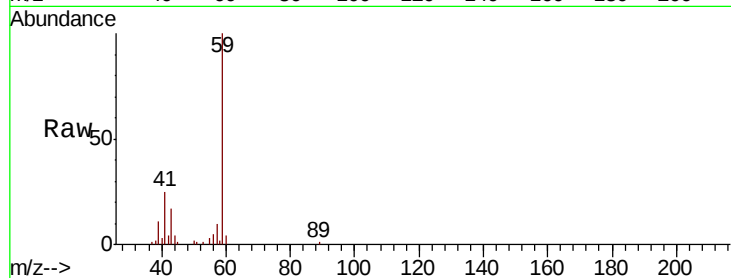
Tert butyl alcohol
 Concen: 113.066 ug/l
 RT: 4.76 min Scan# 929
 Delta R.T. 0.01 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
59	59	100	101043		
57	57	10.0		8.3	12.5

Manual Integrations
 APPROVED

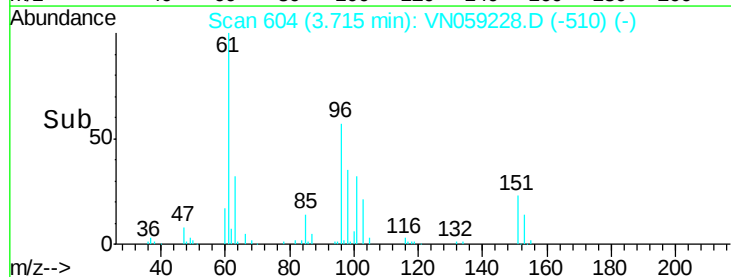
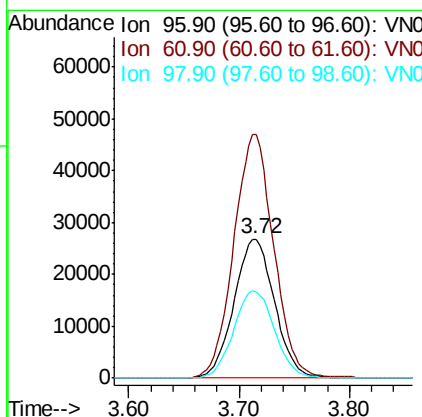
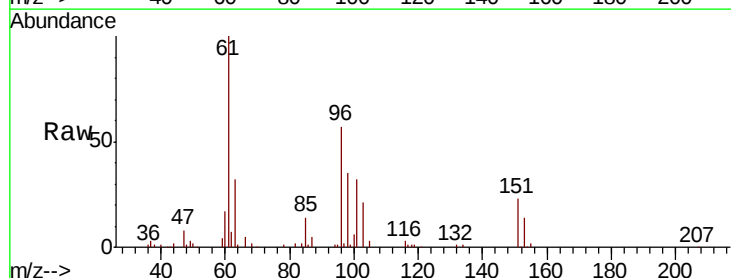
MMDadoda
 11/15/2019 10:21:58 AM

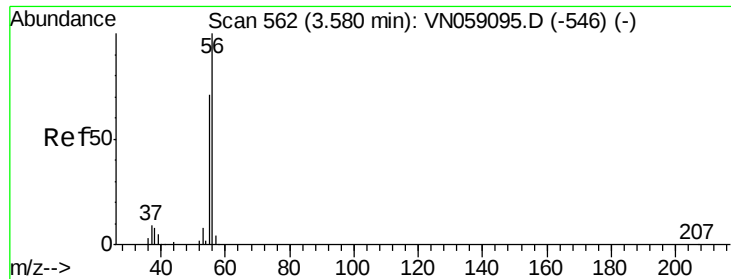


#12

1,1-Dichloroethene
 Concen: 19.188 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
96	96	100	68280		
61	61	175.3		136.5	204.7
98	98	61.6		50.2	75.4





#13

Acrolein

Concen: 70.560 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 56 Resp: 32511

Ion Ratio Lower Upper

56 100

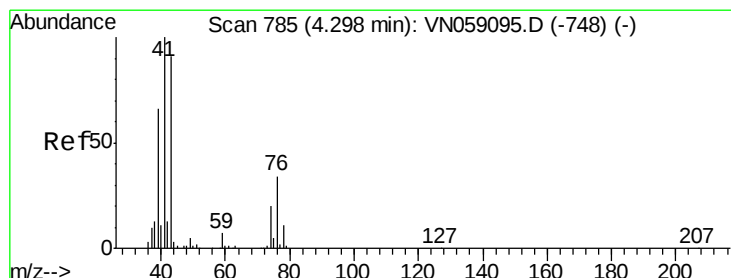
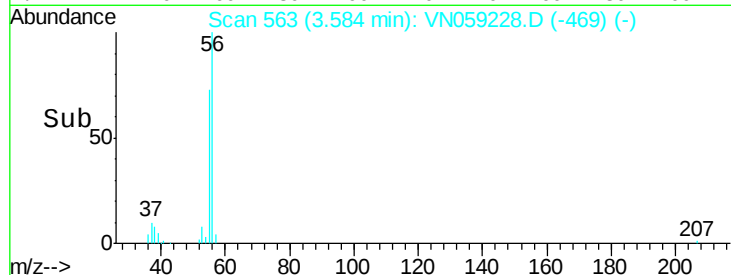
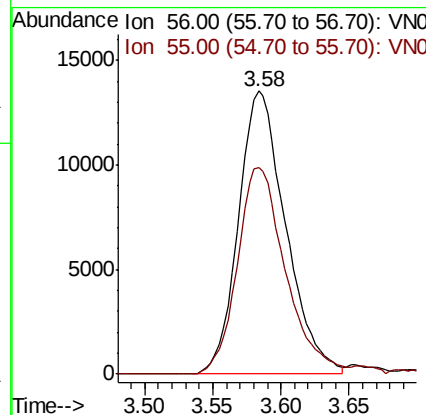
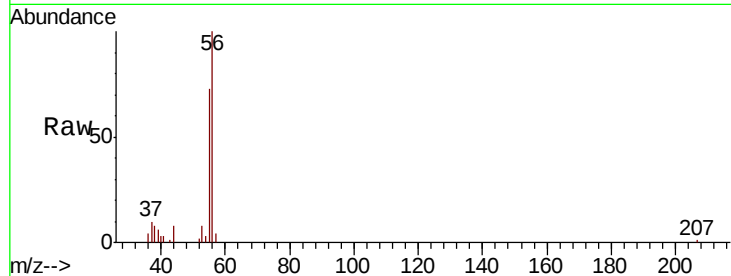
55 74.8 56.4 84.6

Manual Integrations

APPROVED

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#14

Allyl chloride

Concen: 18.717 ug/l

RT: 4.30 min Scan# 785

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

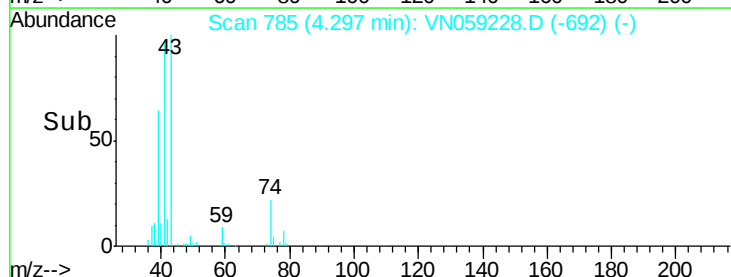
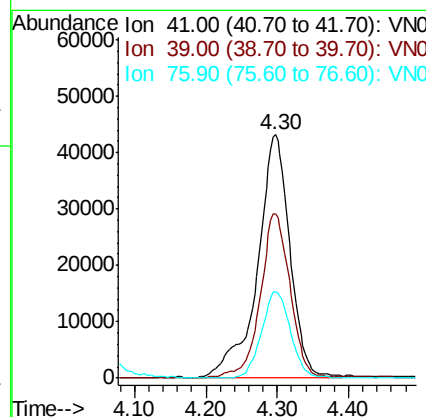
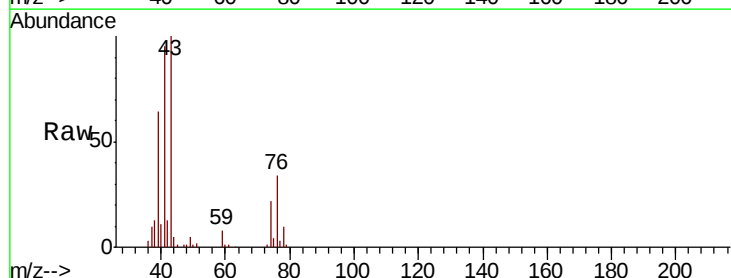
Tgt Ion: 41 Resp: 136811

Ion Ratio Lower Upper

41 100

39 61.8 49.1 73.7

76 31.6 24.9 37.3





#15

Acrylonitrile

Concen: 111.522 ug/l

RT: 4.96 min Scan# 990

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

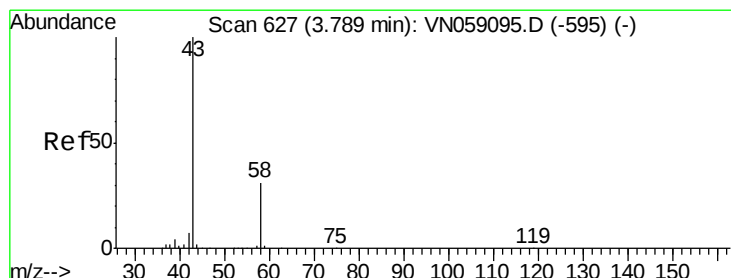
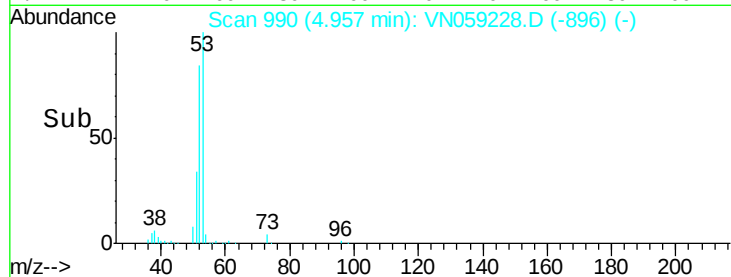
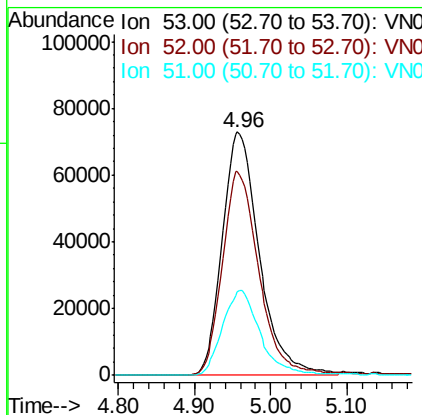
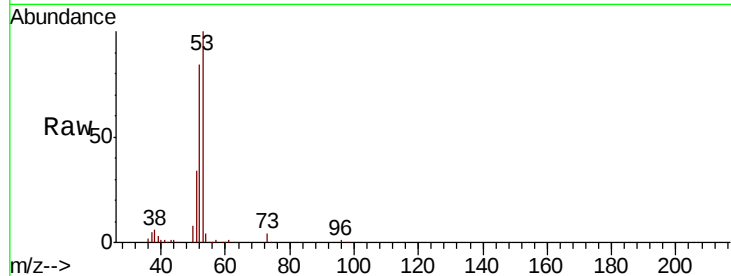
ClientSampleId :

VN1114MBS01

Tot Ion:	53	Resp:	248027
Ion Ratio		Lower	Upper
53	100		
52	82.2	65.0	97.6
51	35.5	28.0	42.0

Manual Integrations
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#16

Acetone

Concen: 85.735 ug/l

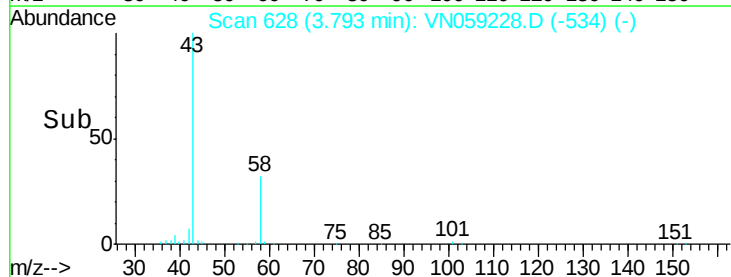
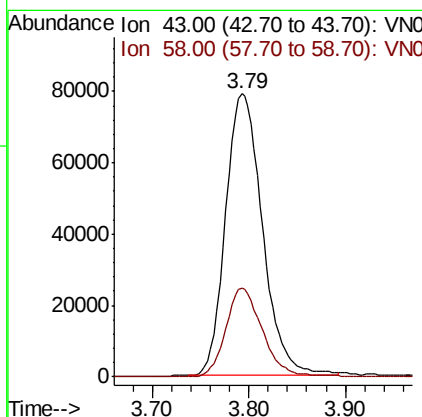
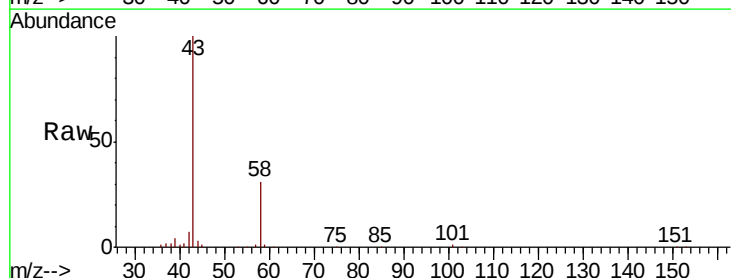
RT: 3.79 min Scan# 628

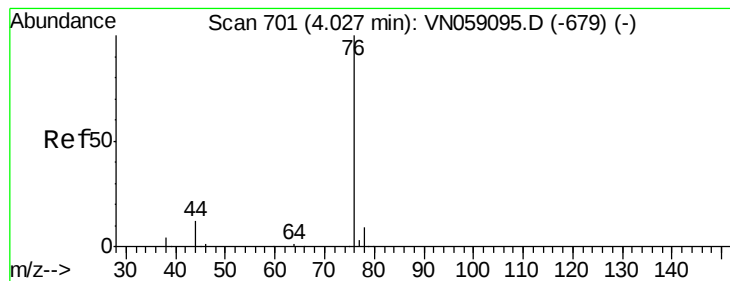
Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion:	43	Resp:	209062
Ion Ratio		Lower	Upper
43	100		
58	31.6	24.9	37.3





#17

Carbon Disulfide

Concen: 16.942 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 76 Resp: 187144

Ion Ratio Lower Upper

76 100

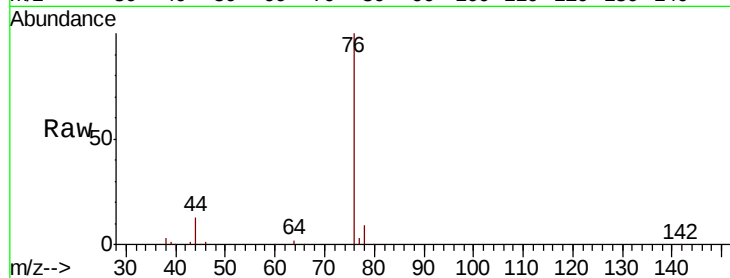
78 9.4 7.4 11.0

Manual Integrations

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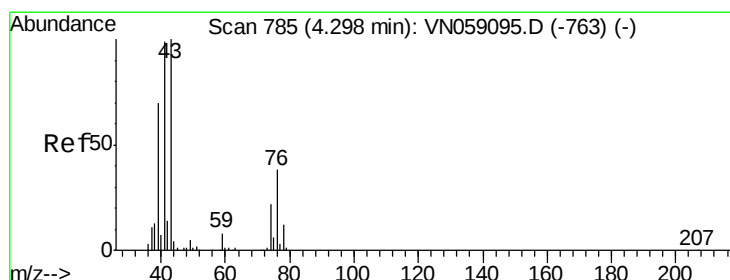
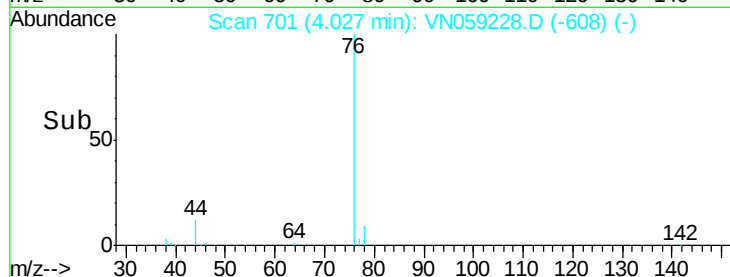
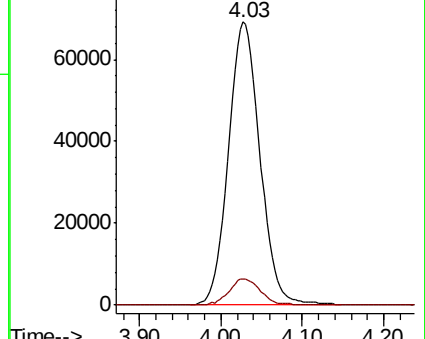
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Abundance Ion 75.90 (75.60 to 76.60): VN059228.D (-608) (-)

Ion 77.90 (77.60 to 78.60): VN059228.D (-608) (-)



#18

Methyl Acetate

Concen: 22.558 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.00 min

Lab File: VN059228.D

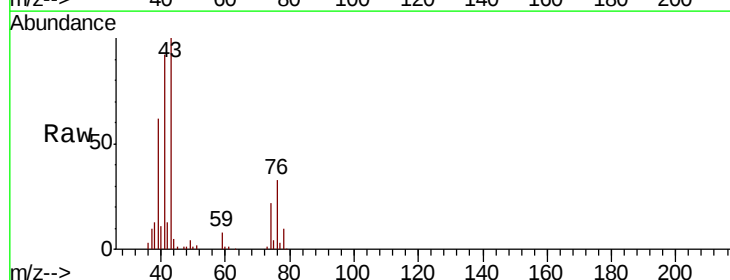
Acq: 14 Nov 2019 13:09

Tgt Ion: 43 Resp: 130565

Ion Ratio Lower Upper

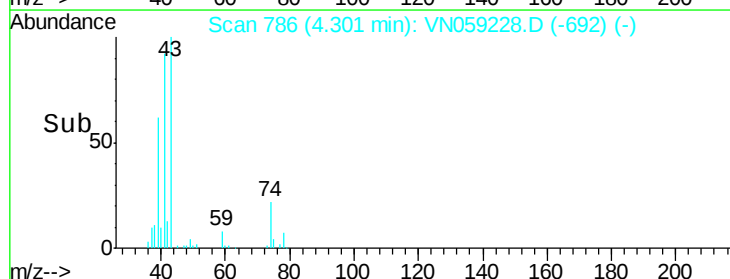
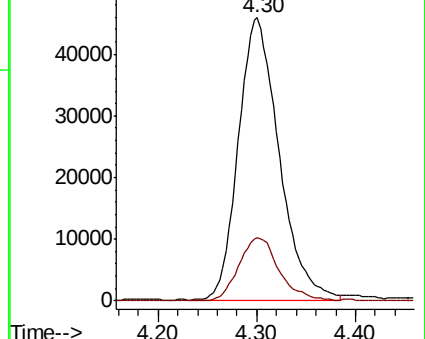
43 100

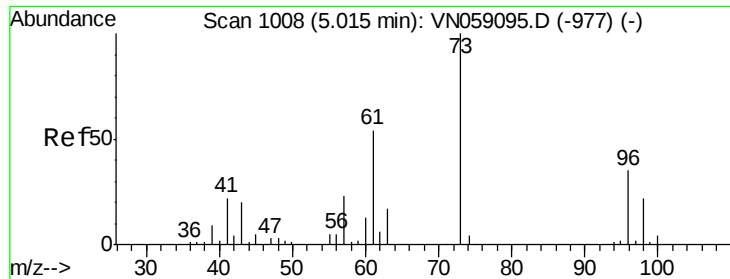
74 22.2 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VN059228.D (-692) (-)

Ion 74.00 (73.70 to 74.70): VN059228.D (-692) (-)





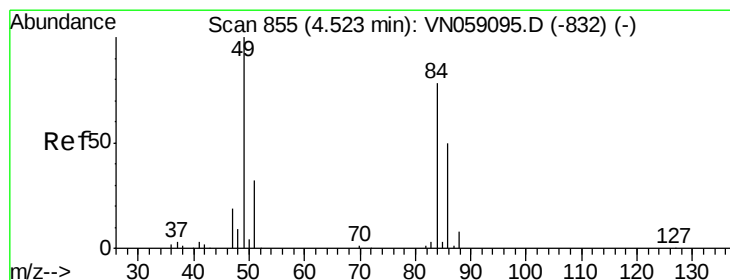
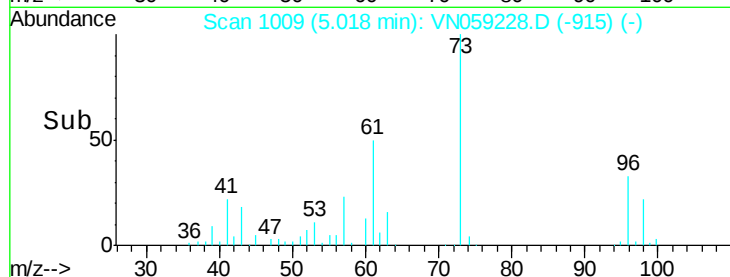
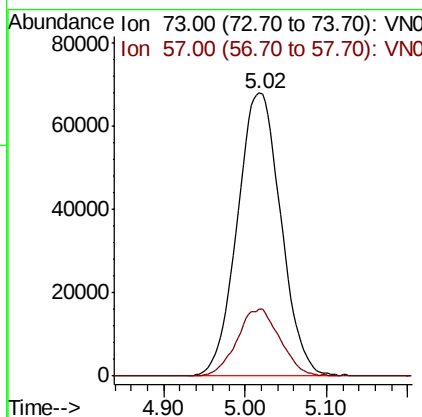
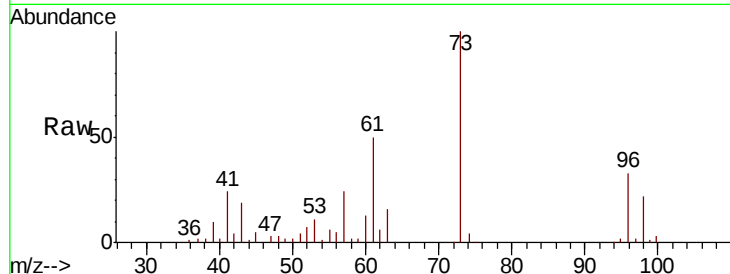
#19
Methvl tert-butvl Ether
Concen: 20.551 ug/l
RT: 5.02 min Scan# 1009
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion: 73 Resp: 251778
Ion Ratio Lower Upper
73 100
57 23.5 18.4 27.6

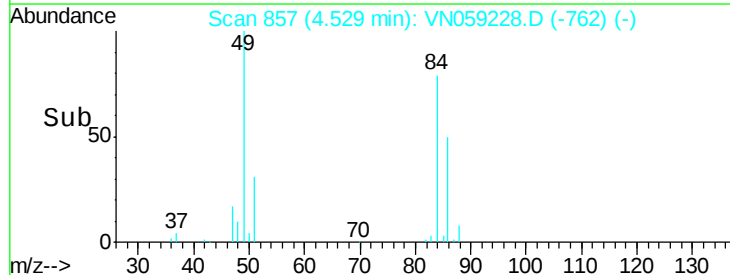
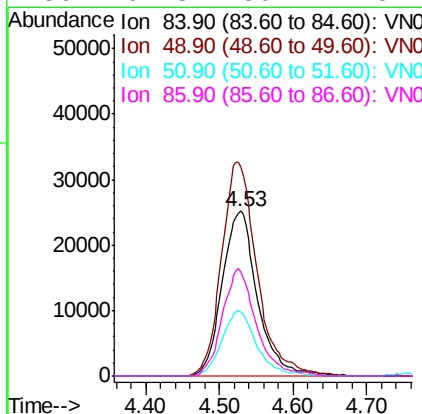
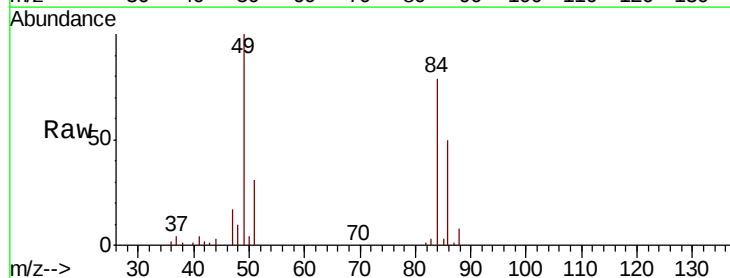
Manual Integrations
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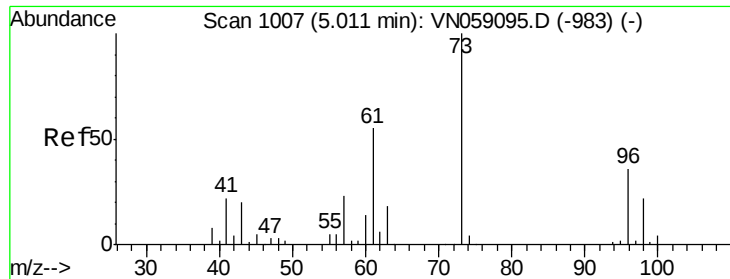
MMDadoda
11/15/2019 10:21:58 AM



#20
Methylene Chloride
Concen: 19.706 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 84 Resp: 83717
Ion Ratio Lower Upper
84 100
49 126.8 102.0 153.0
51 38.9 32.2 48.2
86 62.8 50.7 76.1





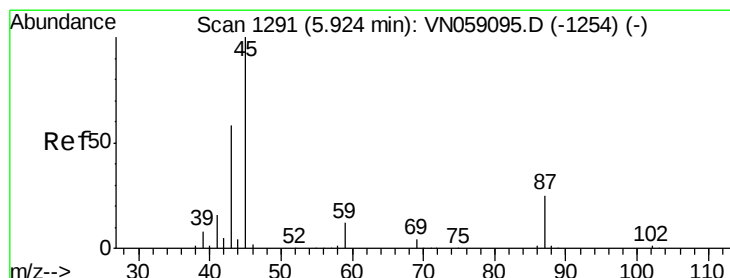
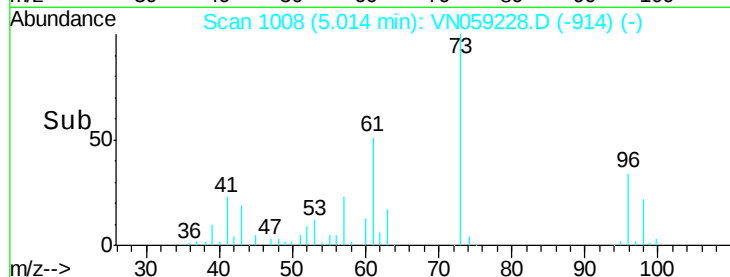
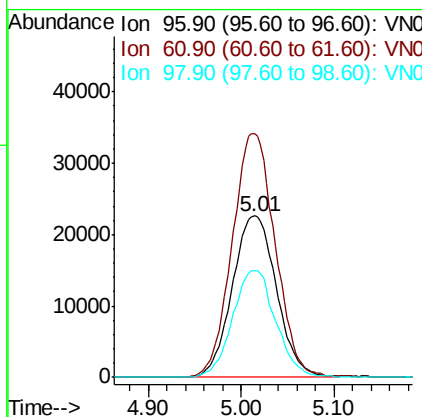
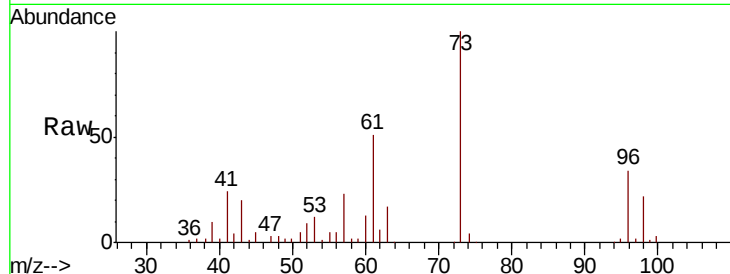
#21
trans-1,2-Dichloroethene
Concen: 19.591 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	150.4	122.6	183.8
98	66.2	50.3	75.5

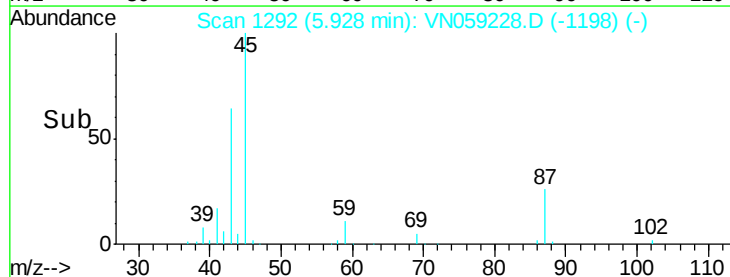
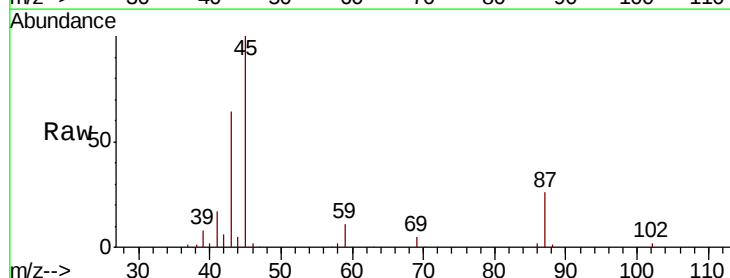
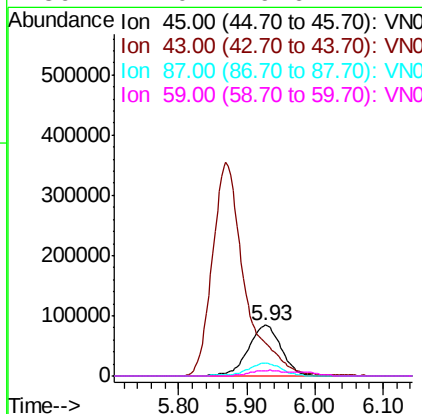
Manual Integrations
APPROVED

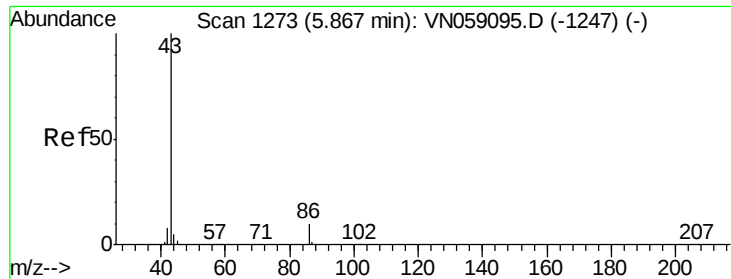
MMDadoda
11/15/2019 10:21:58 AM



#22
Diisopropyl ether
Concen: 20.590 ug/l
RT: 5.93 min Scan# 1292
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
45	100		
43	62.4	46.7	70.1
87	25.7	20.5	30.7
59	11.0	9.6	14.4





#23

Vinyl Acetate

Concen: 109.549 ug/l

RT: 5.87 min Scan# 1274

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 43 Resp: 1172227

Ion Ratio Lower Upper

43 100

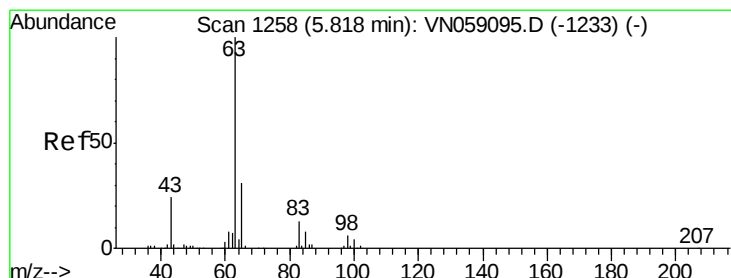
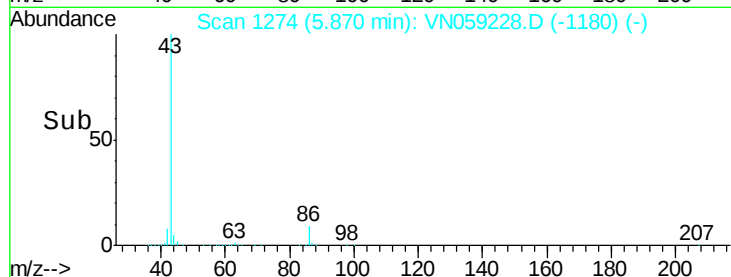
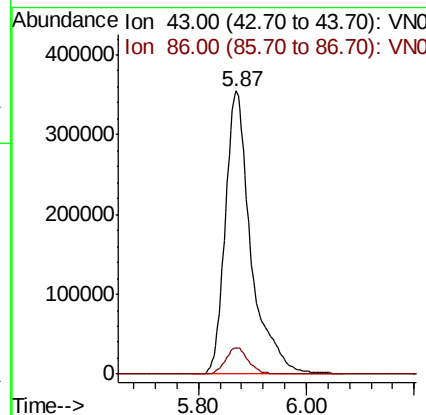
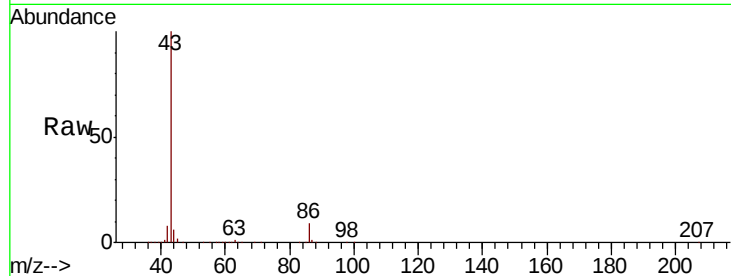
86 9.2 7.7 11.5

Manual Integrations

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MMDadoda

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#24

1,1-Dichloroethane

Concen: 20.010 ug/l

RT: 5.82 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

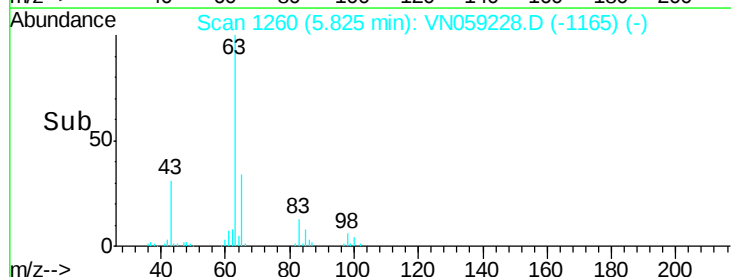
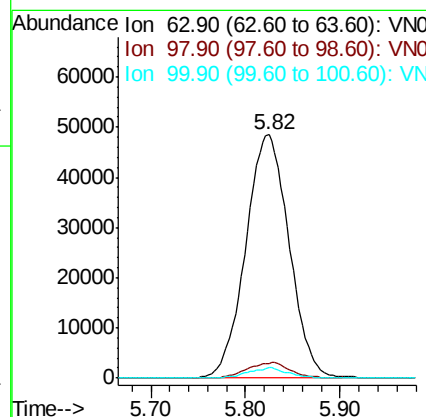
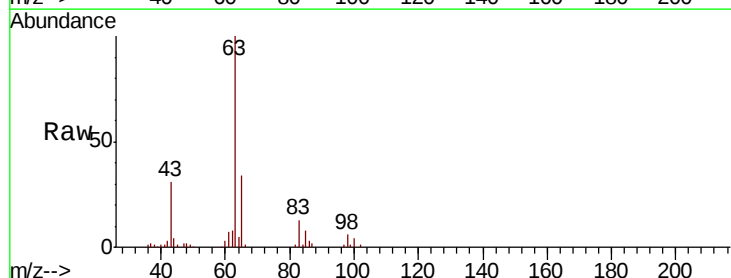
Tgt Ion: 63 Resp: 154306

Ion Ratio Lower Upper

63 100

98 6.1 2.8 8.4

100 4.2 1.9 5.7





#25

2-Butanone

Concen: 103.650 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 43 Resp: 333108

Ion Ratio Lower Upper

43 100

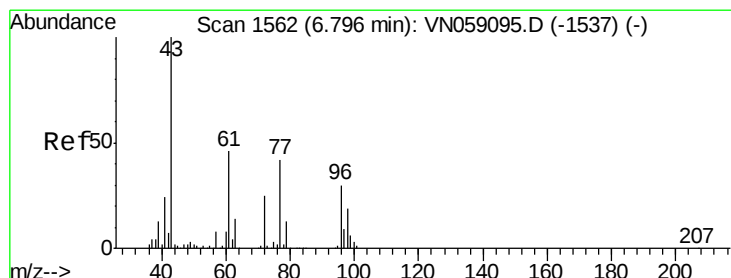
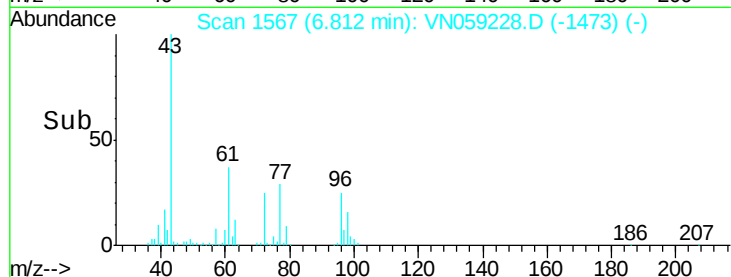
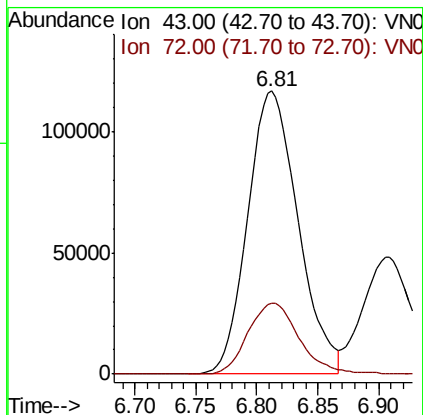
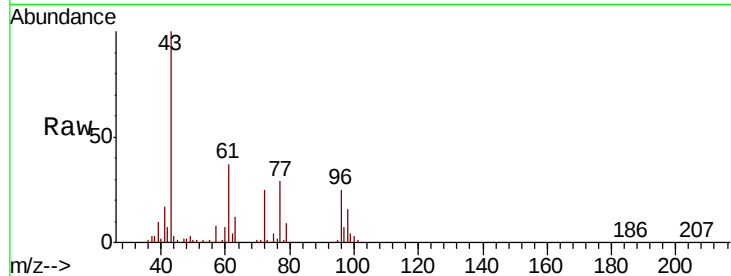
72 25.0 20.3 30.5

Manual Integrations

APPROVED

MMDadoda

11/15/2019 10:21:58 AM



#26

2,2-Dichloropropane

Concen: 18.954 ug/l

RT: 6.80 min Scan# 1564

Delta R.T. 0.01 min

Lab File: VN059228.D

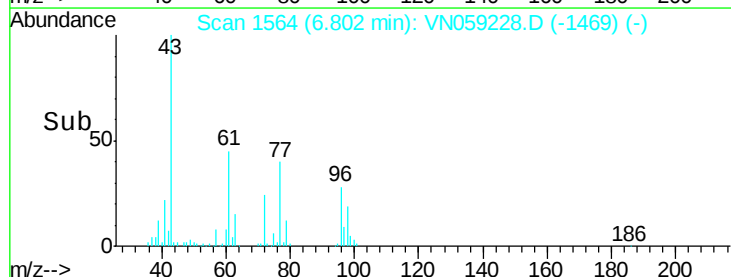
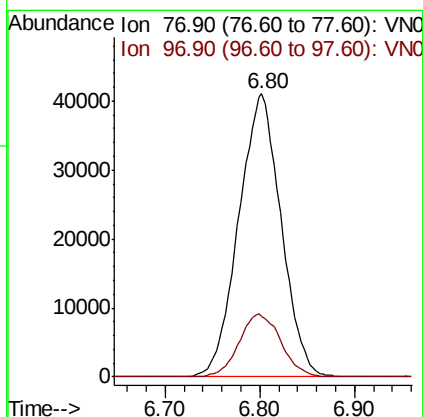
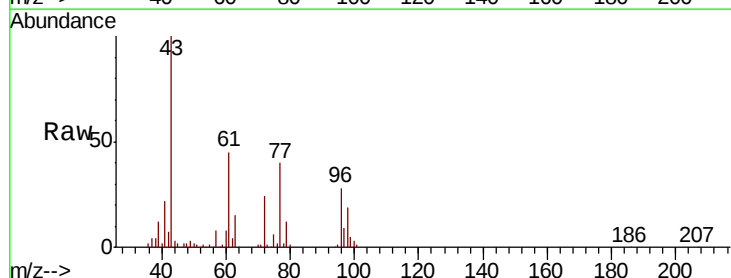
Acq: 14 Nov 2019 13:09

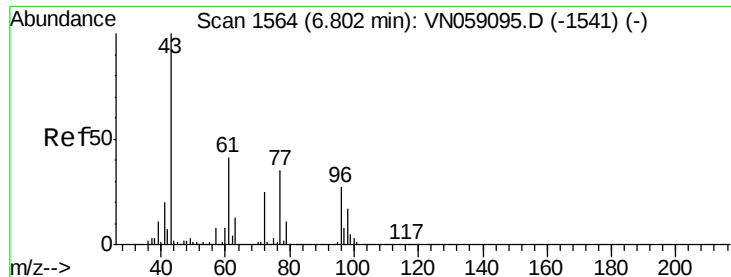
Tgt Ion: 77 Resp: 127805

Ion Ratio Lower Upper

77 100

97 21.9 11.2 33.6





#27

cis-1,2-Dichloroethene

Concen: 19.926 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

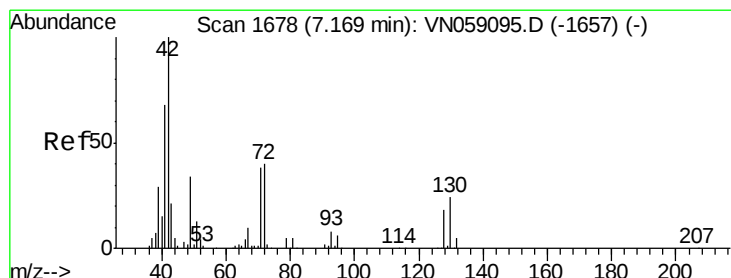
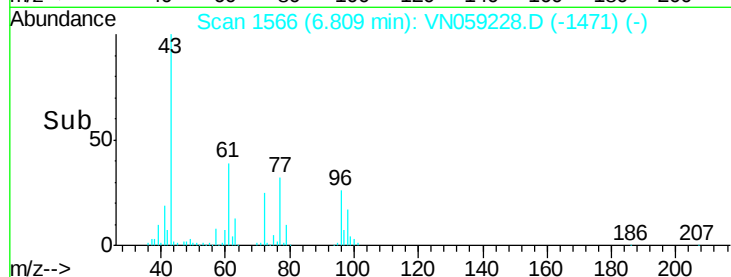
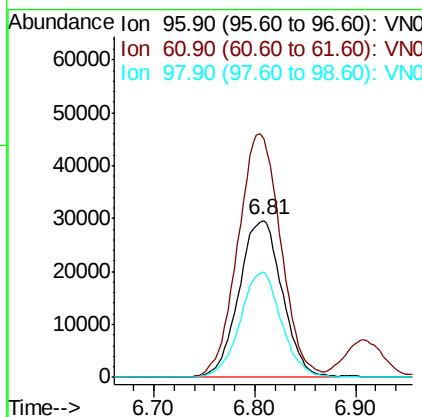
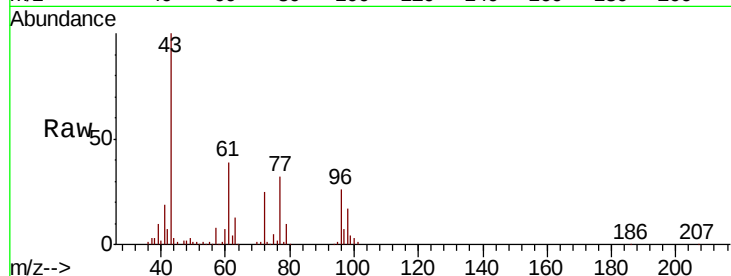
ClientSampleId :

VN1114MBS01

Tot Ion:	96	Resp:	88300
Ion	Ratio	Lower	Upper
96	100		
61	154.4	0.0	311.6
98	64.0	0.0	129.8

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#28

Bromochloromethane

Concen: 21.142 ug/l

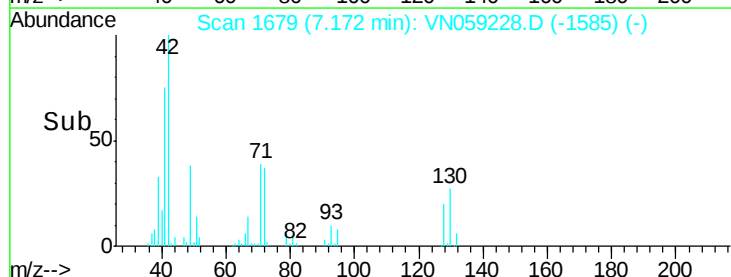
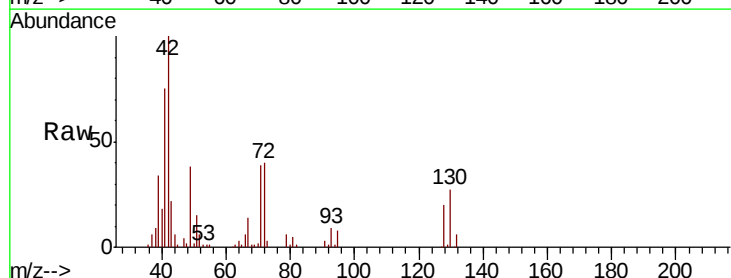
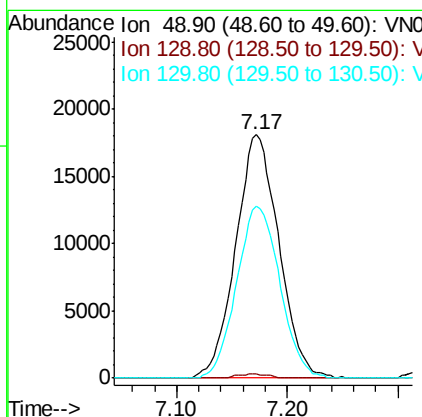
RT: 7.17 min Scan# 1679

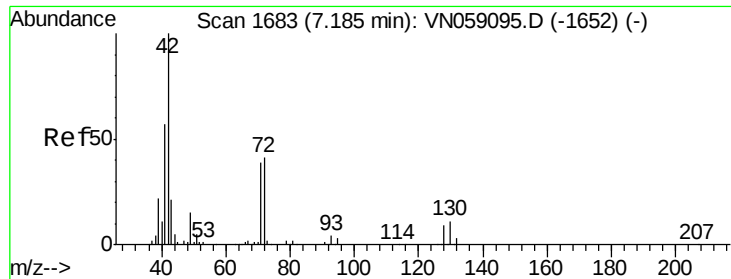
Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion:	49	Resp:	49051
Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	3.8
130	70.5	55.6	83.4





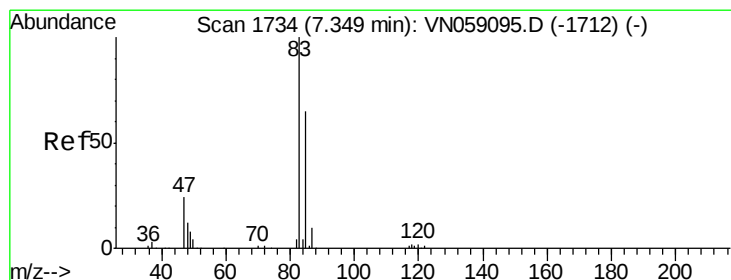
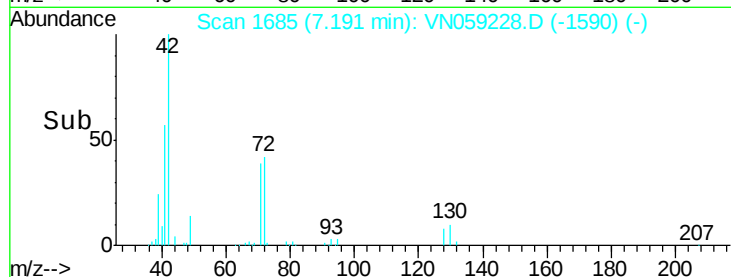
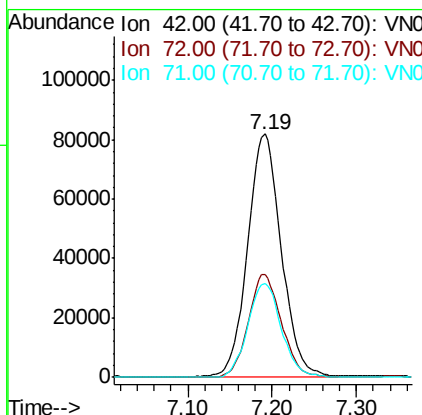
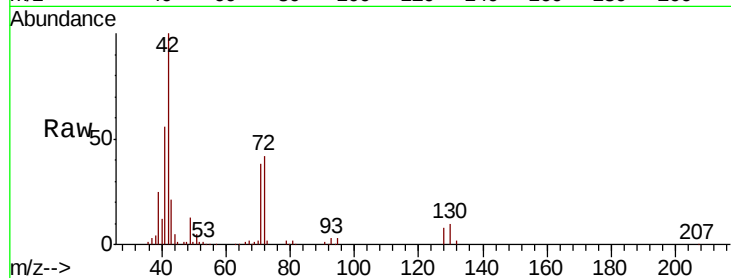
#29
Tetrahydrofuran
Concen: 111.949 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampled :
VN1114MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.3	33.1	49.7
71	38.3	30.9	46.3

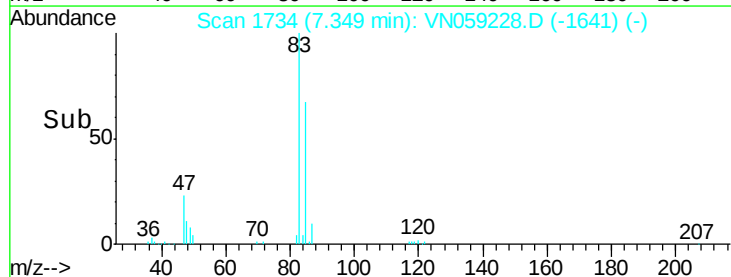
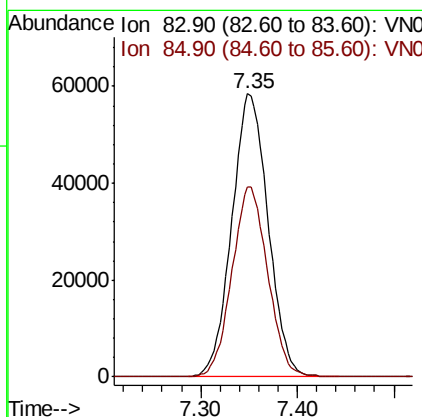
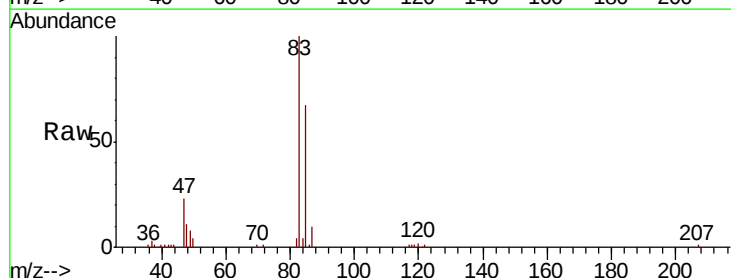
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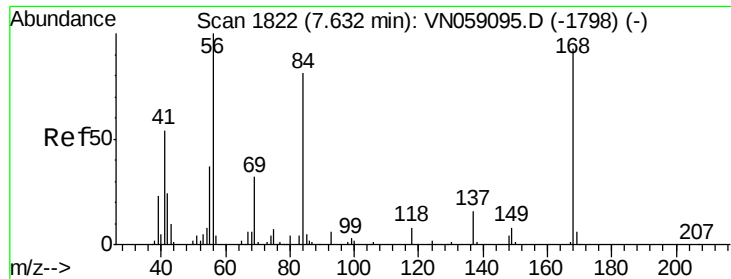
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#30
Chloroform
Concen: 20.639 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.8	77.8





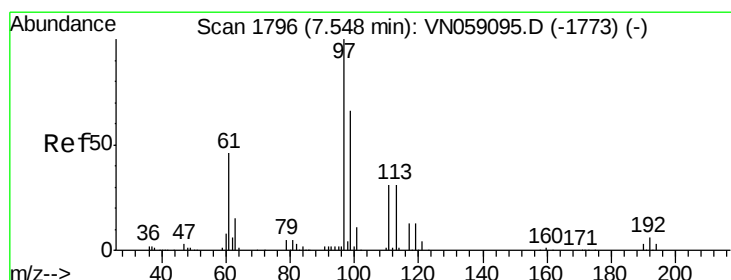
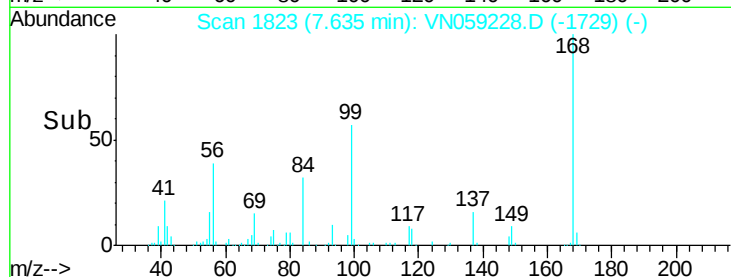
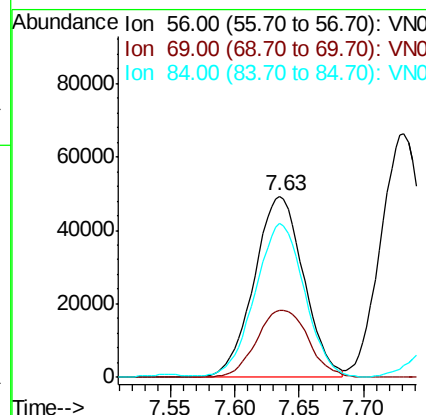
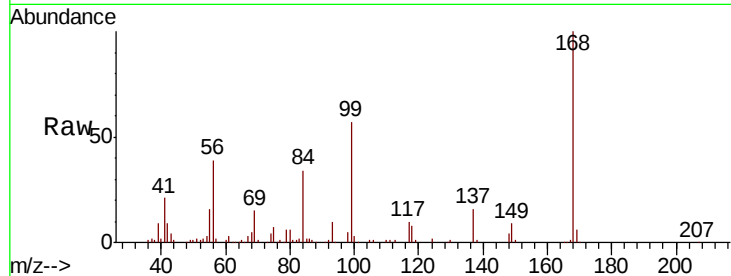
#31
Cyclohexane
Concen: 18.056 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.1	25.8	38.8
84	84.4	65.0	97.4

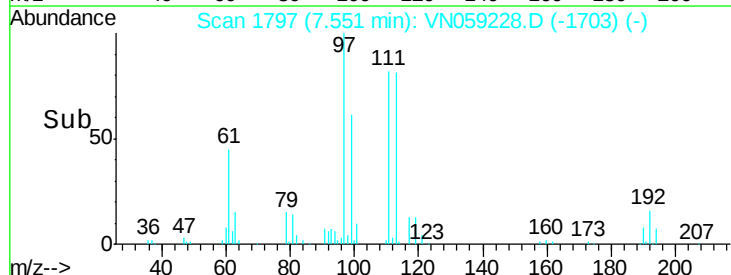
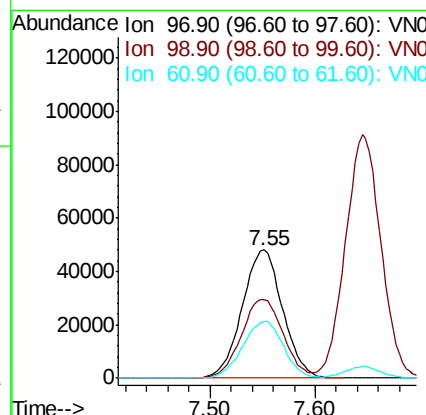
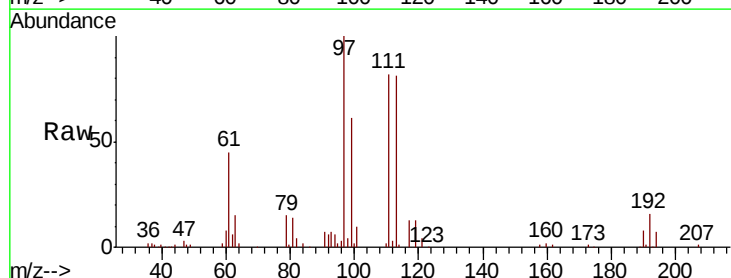
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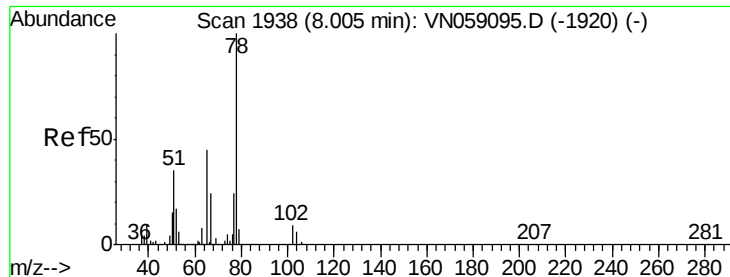
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#32
1,1,1-Trichloroethane
Concen: 20.592 ug/l
RT: 7.55 min Scan# 1797
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.0	76.6
61	44.8	35.8	53.8





#33

1,2-Dichloroethane-d4

Concen: 51.281 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 65 Resp: 240469

Ion Ratio Lower Upper

65 100

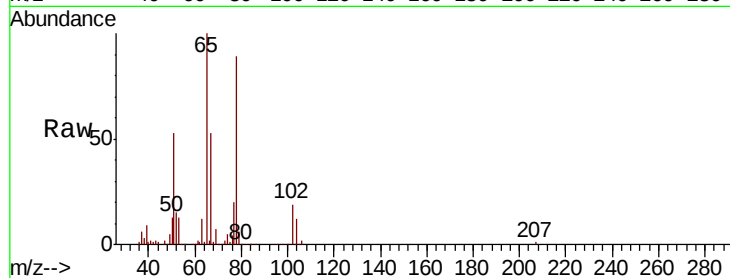
67 53.6 0.0 107.4

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VN059228.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN059228.D (-1845) (-)

8.01

100000

80000

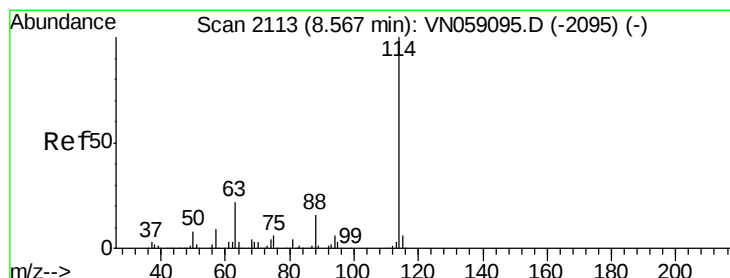
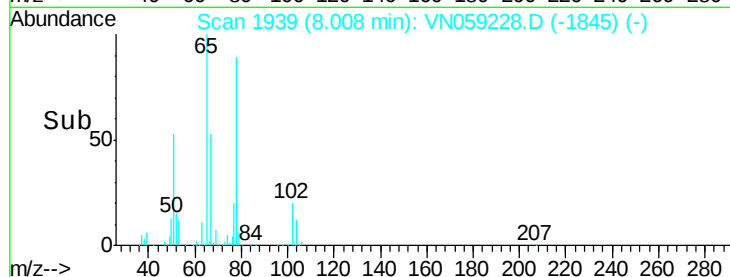
60000

40000

20000

0

Time--> 7.90 7.95 8.00 8.05 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

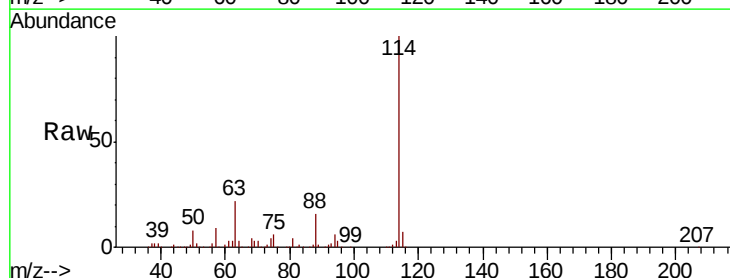
Tgt Ion: 114 Resp: 600140

Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.4

88 15.8 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): VN059228.D (-2020) (-)

Ion 63.00 (62.70 to 63.70): VN059228.D (-2020) (-)

Ion 87.90 (87.60 to 88.60): VN059228.D (-2020) (-)

8.57

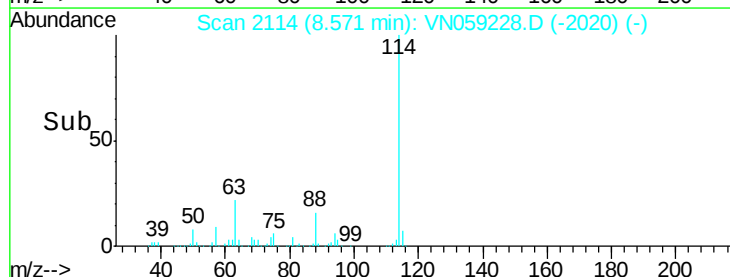
300000

200000

100000

0

Time--> 8.50 8.55 8.60 8.70





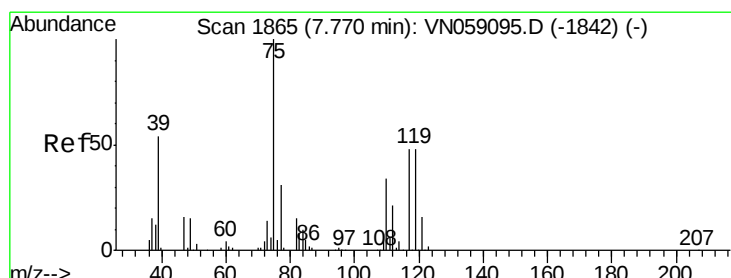
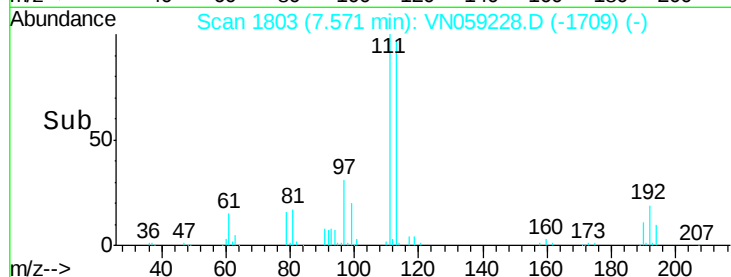
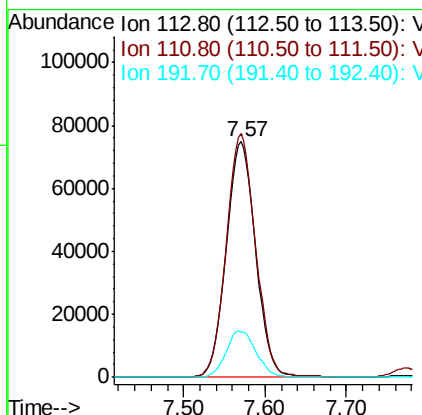
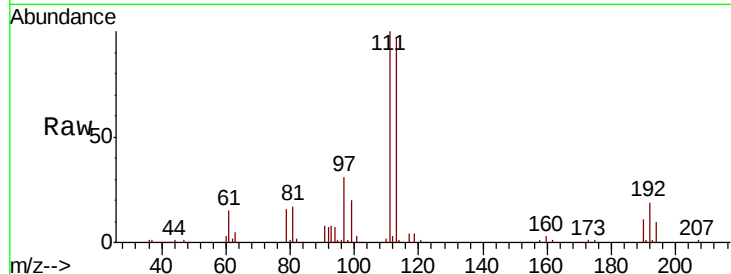
#35
Dibromofluoromethane
Concen: 52.903 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100	189573		
111	102.8	82.8	124.2	
192	20.1	16.1	24.1	

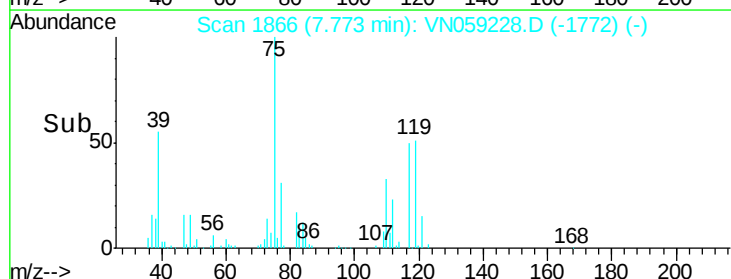
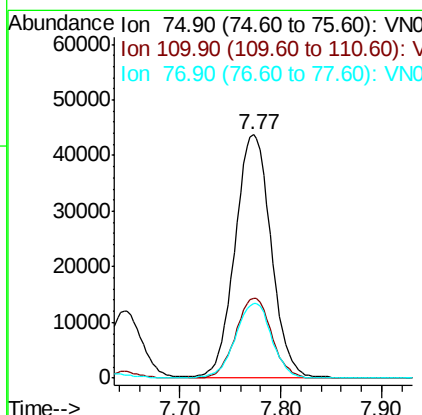
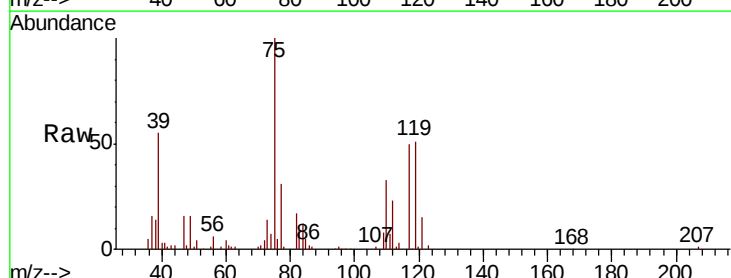
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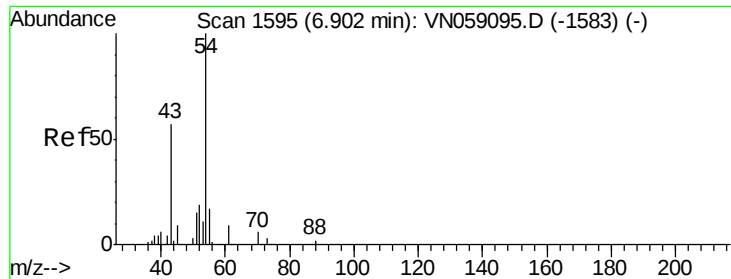
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#36
1,1-Dichloropropene
Concen: 19.391 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	108774		
110	32.6	17.1	51.2	
77	30.9	24.8	37.2	





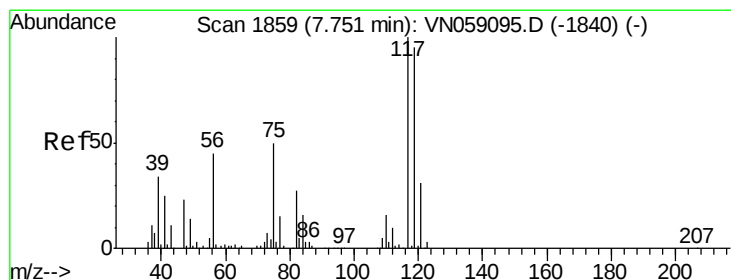
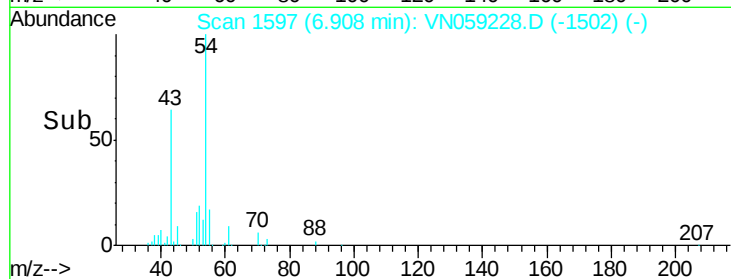
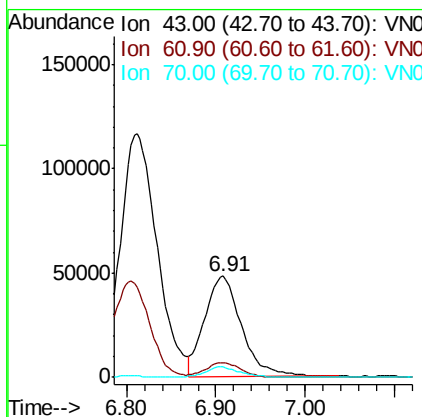
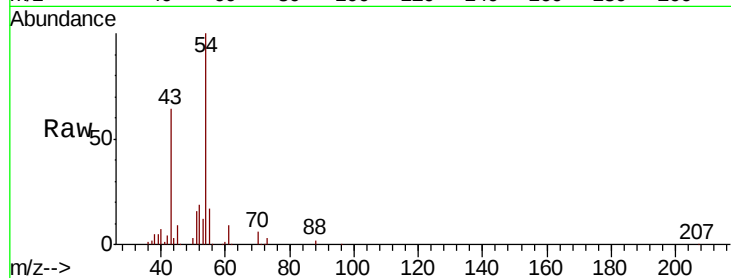
#37
Ethyl Acetate
Concen: 22.121 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. 0.01 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.2	11.2	16.8
70	9.7	7.8	11.8

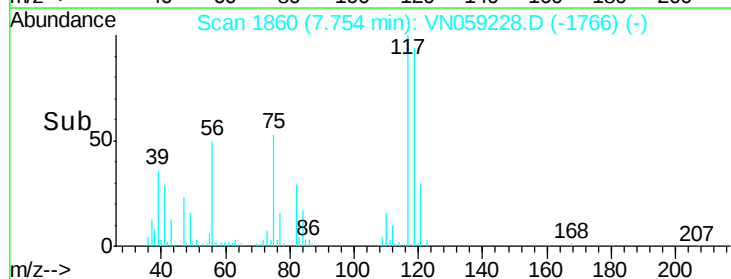
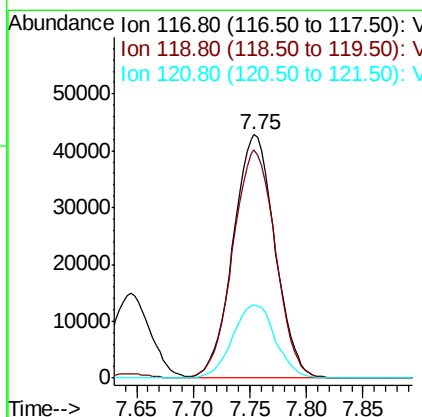
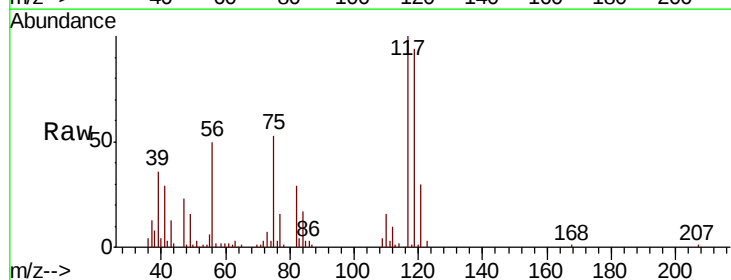
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#38
Carbon Tetrachloride
Concen: 19.740 ug/l
RT: 7.75 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.5	75.6	113.4
121	30.0	24.6	36.8





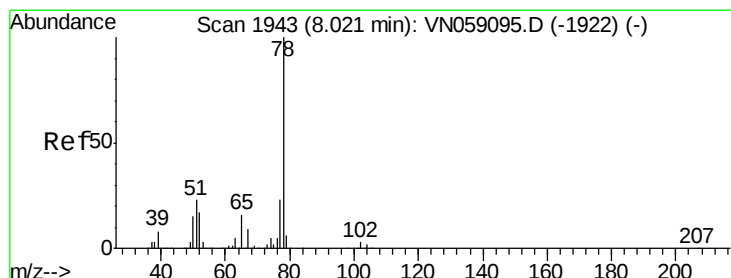
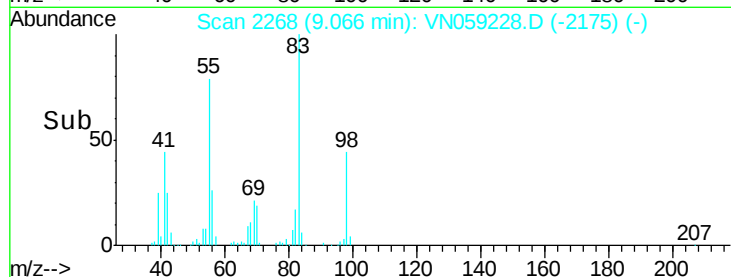
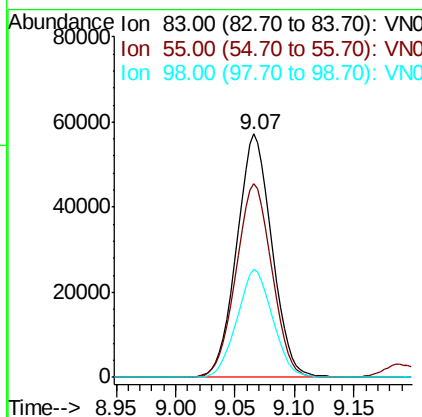
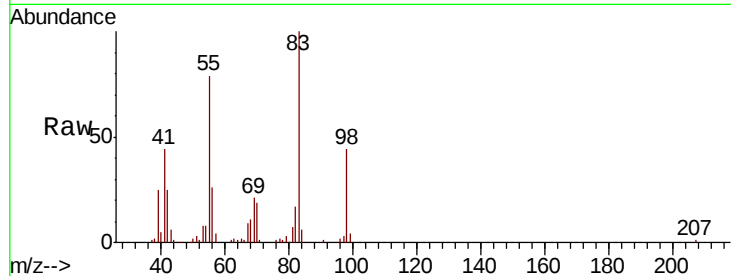
#39
Methvlcvclohexane
Concen: 17.995 ug/l
RT: 9.07 min Scan# 2268
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	117152		
55	79.4	63.9	95.9	
98	44.3	35.6	53.4	

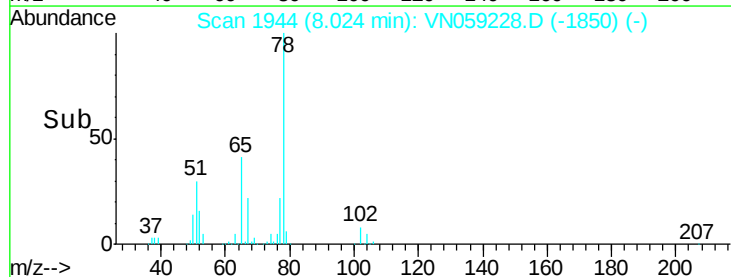
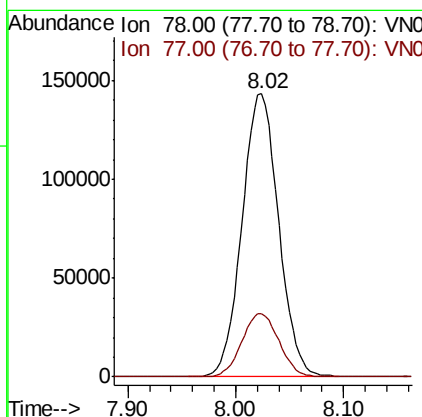
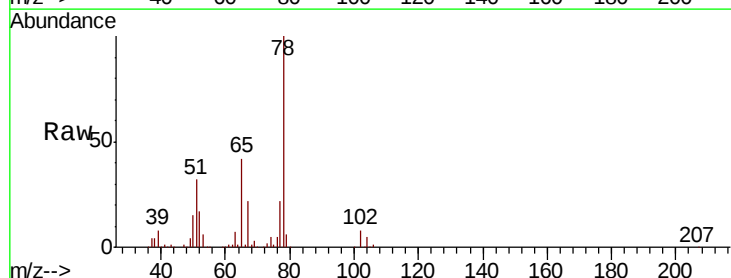
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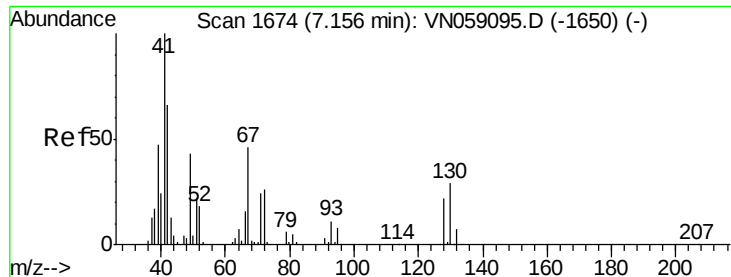
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#40
Benzene
Concen: 20.022 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	338216		
77	22.4	18.8	28.2	





#41

Methacrylonitrile

Concen: 19.671 ug/l m

RT: 7.15 min Scan# 1672

Delta R.T. -0.01 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

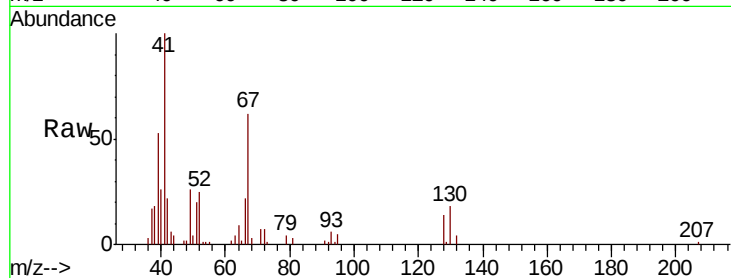
VN1114MBS01

Tot Ion: 41 Resp: 53381

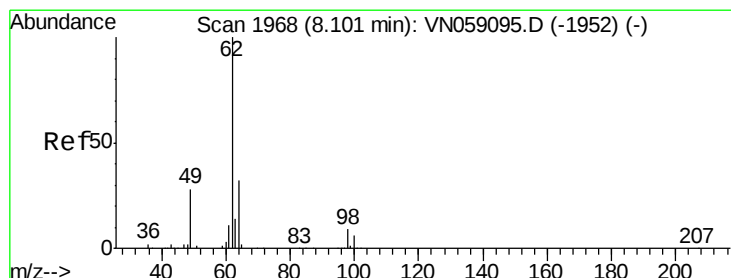
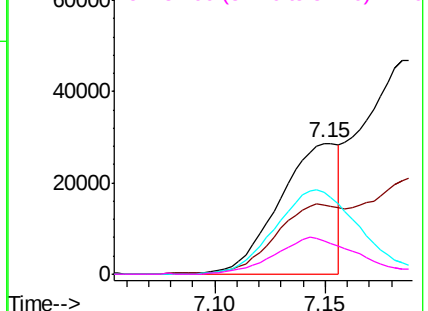
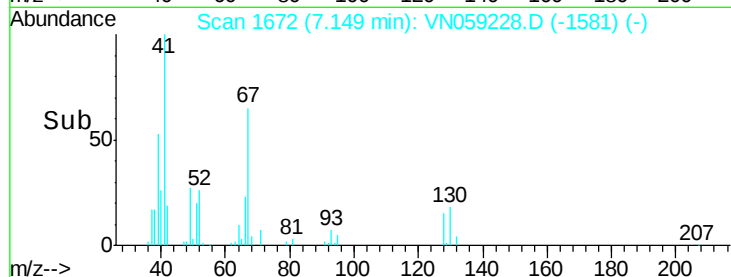
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

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Abundance Ion 41.00 (40.70 to 41.70): VN059095.D (-1650) (-)



#42

1,2-Dichloroethane

Concen: 20.793 ug/l

RT: 8.10 min Scan# 1969

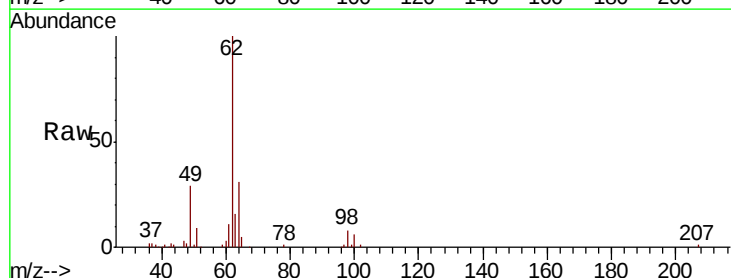
Delta R.T. 0.00 min

Lab File: VN059228.D

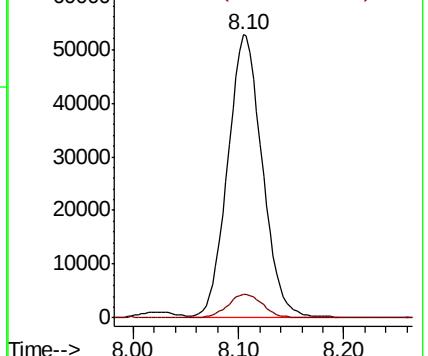
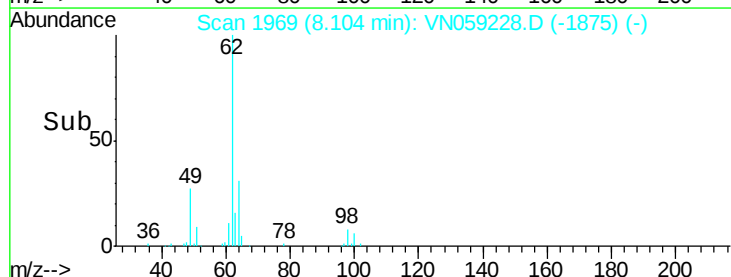
Acq: 14 Nov 2019 13:09

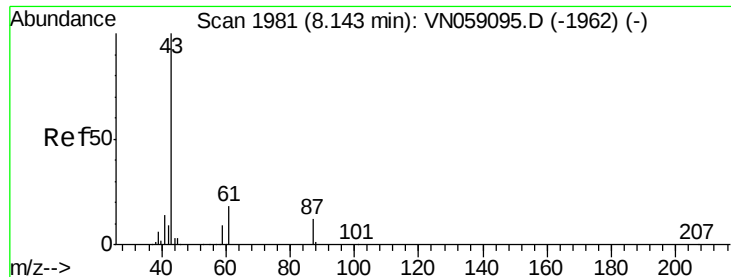
Tgt Ion: 62 Resp: 120466

Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.8



Abundance Ion 61.90 (61.60 to 62.60): VN059095.D (-1952) (-)





#43

Isopropyl Acetate

Concen: 20.554 ug/l

RT: 8.15 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

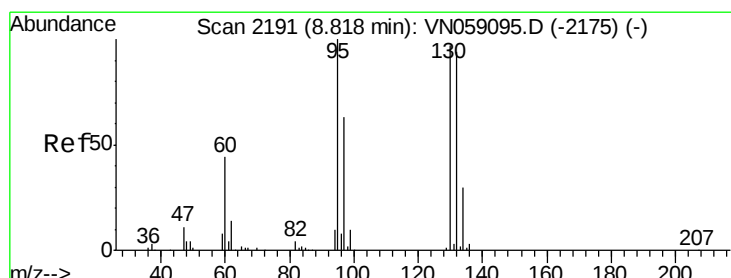
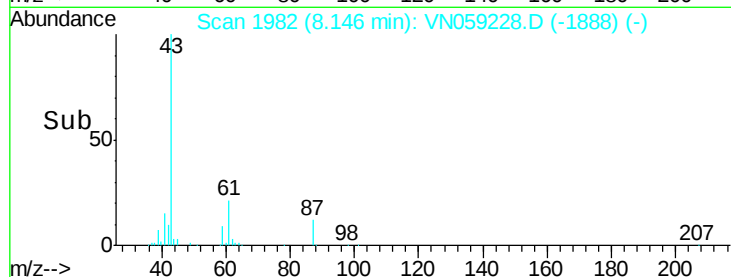
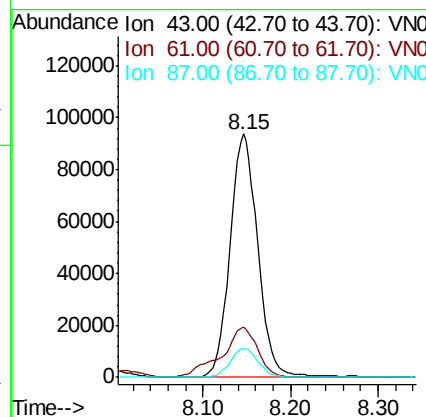
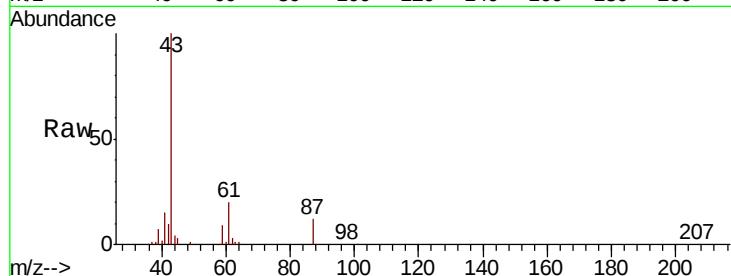
ClientSampleId :

VN1114MBS01

Tot Ion:	43	Resp:	204493
Ion Ratio	Lower	Upper	
43	100		
61	27.1	21.0	31.6
87	12.1	9.8	14.6

Manual Integrations
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11/15/2019 10:21:58 AM



#44

Trichloroethene

Concen: 20.222 ug/l

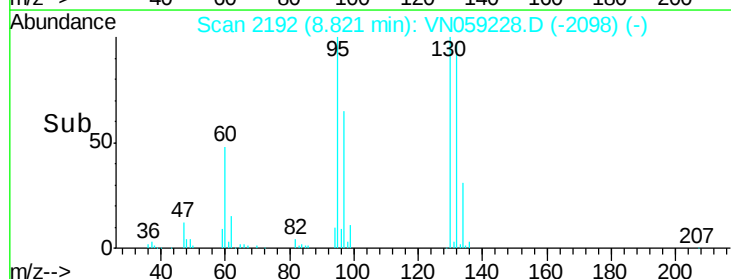
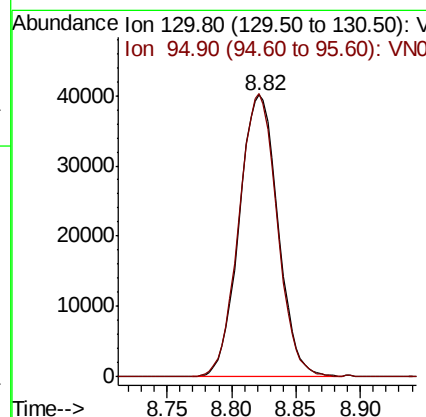
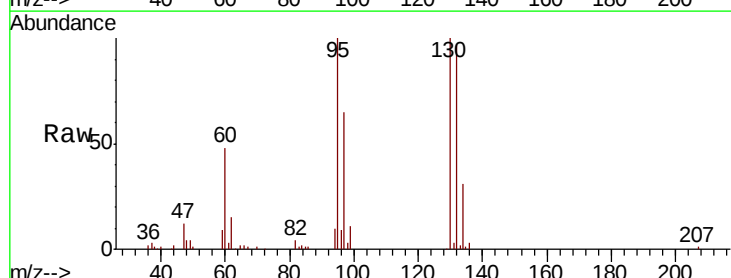
RT: 8.82 min Scan# 2192

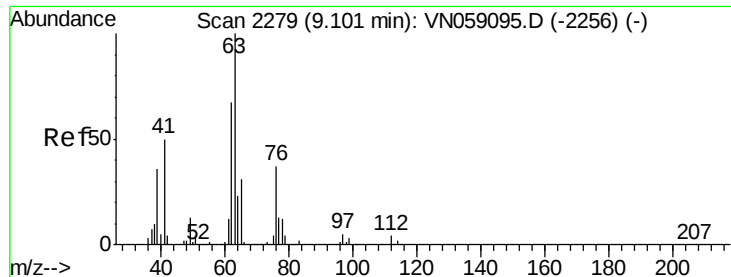
Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion:	130	Resp:	83972
Ion Ratio	Lower	Upper	
130	100		
95	100.5	0.0	206.4





#45

1,2-Dichloropropane

Concen: 20.522 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 63 Resp: 94161

Ion Ratio Lower Upper

63 100

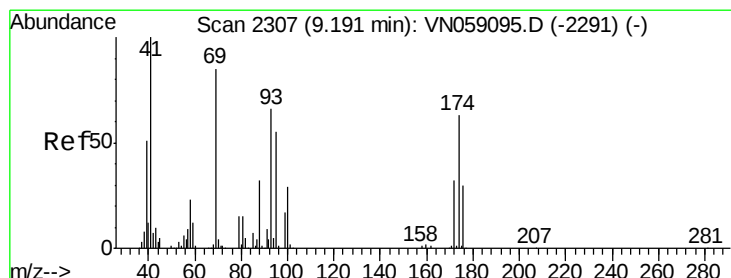
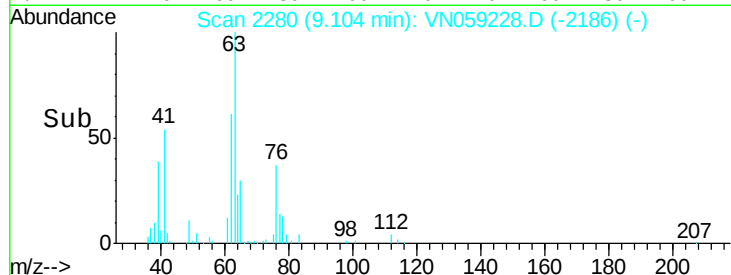
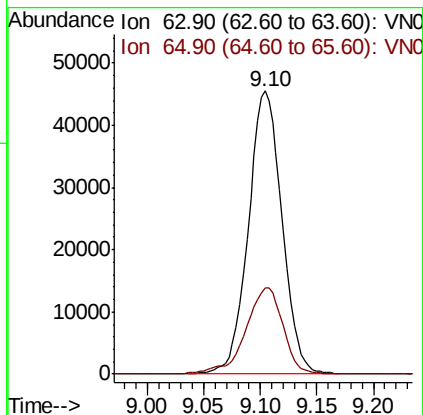
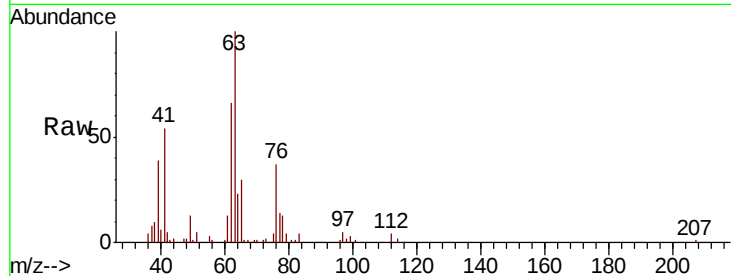
65 30.3 24.6 37.0

Manual Integrations

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#46

Dibromomethane

Concen: 20.130 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

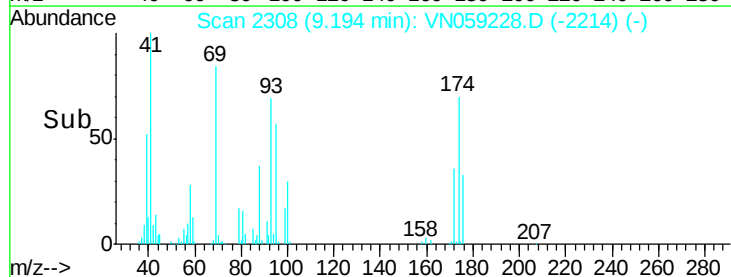
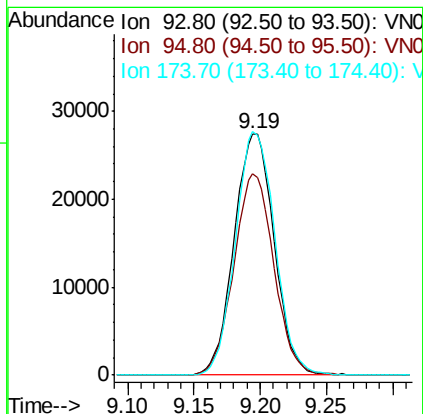
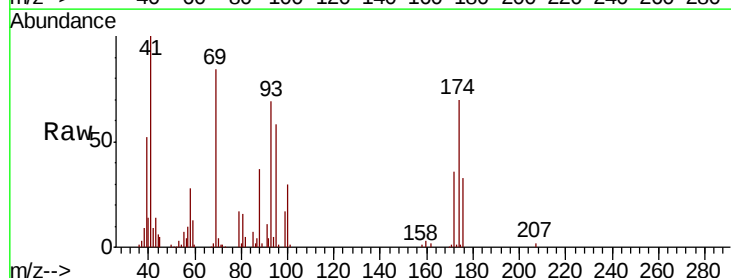
Tgt Ion: 93 Resp: 57554

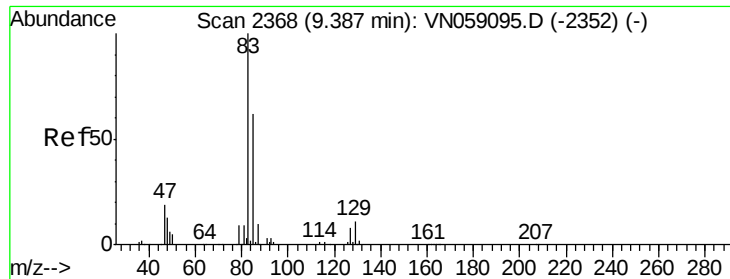
Ion Ratio Lower Upper

93 100

95 83.4 66.6 100.0

174 99.8 78.2 117.2





#47

Bromodichloromethane

Concen: 20.596 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

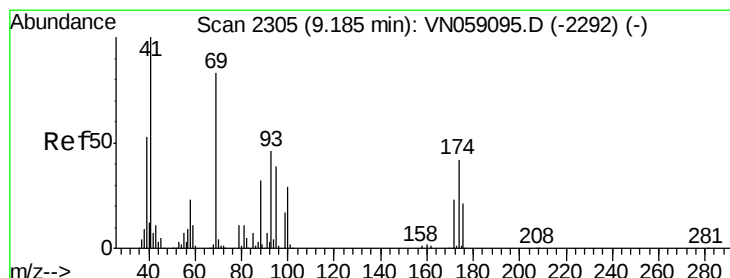
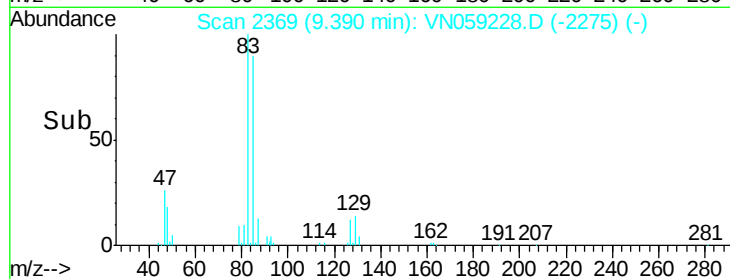
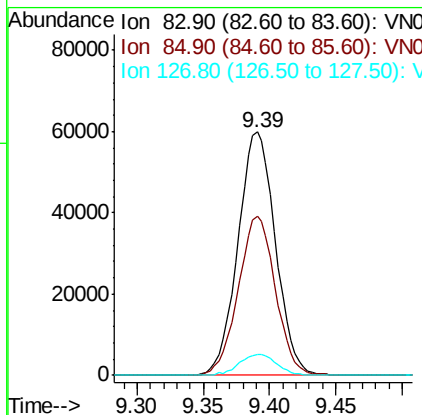
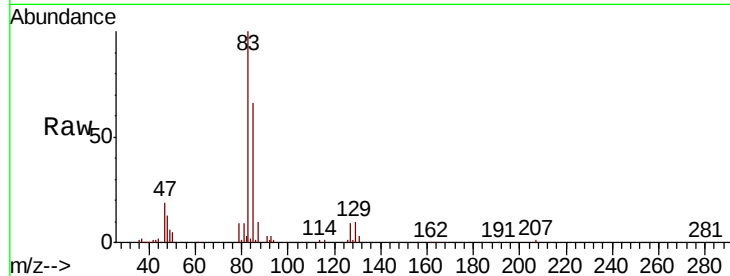
ClientSampleId :

VN1114MBS01

Tot Ion:	83	Resp:	117588
Ion	Ratio	Lower	Upper
83	100		
85	65.6	49.7	74.5
127	8.5	6.4	9.6

Manual Integrations
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11/15/2019 10:21:58 AM



#48

Methyl methacrylate

Concen: 20.648 ug/l

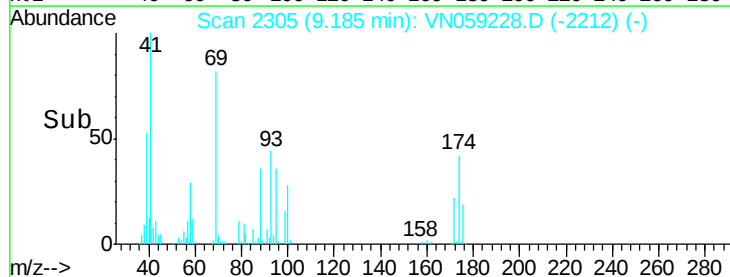
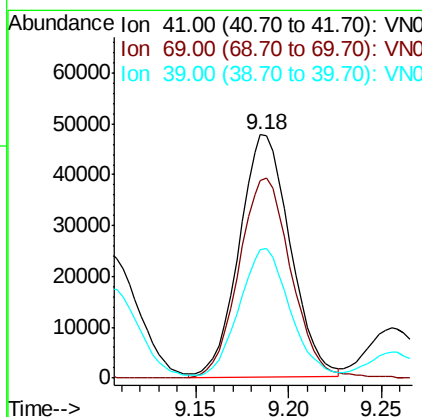
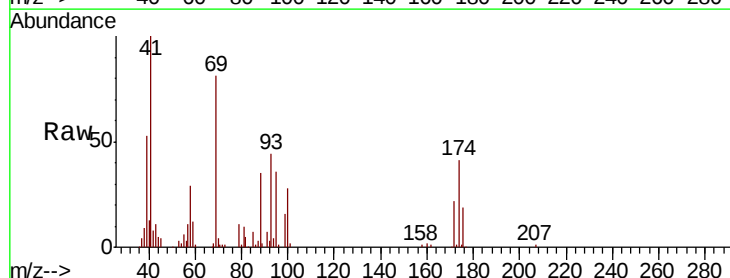
RT: 9.18 min Scan# 2305

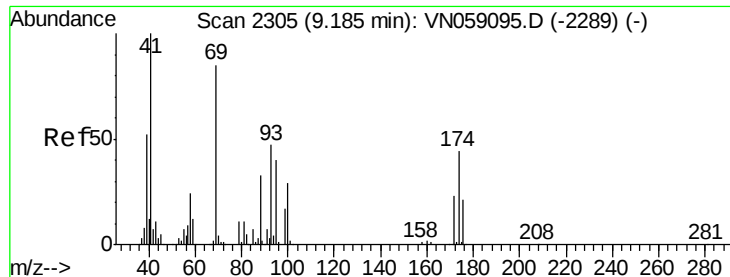
Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion:	41	Resp:	91886
Ion	Ratio	Lower	Upper
41	100		
69	84.6	67.3	100.9
39	52.8	43.3	64.9





#49

1,4-Dioxane

Concen: 447.355 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 88 Resp: 35379

Ion Ratio Lower Upper

88 100

43 32.3 26.3 39.5

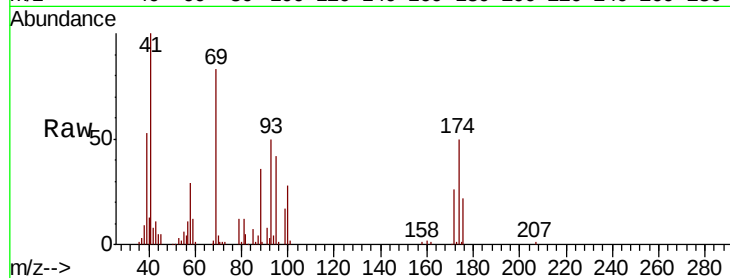
58 77.5 60.6 90.8

Manual Integrations

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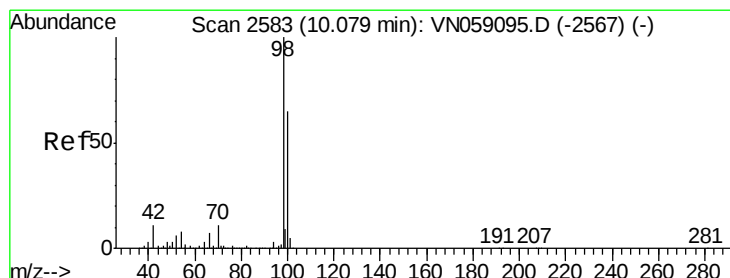
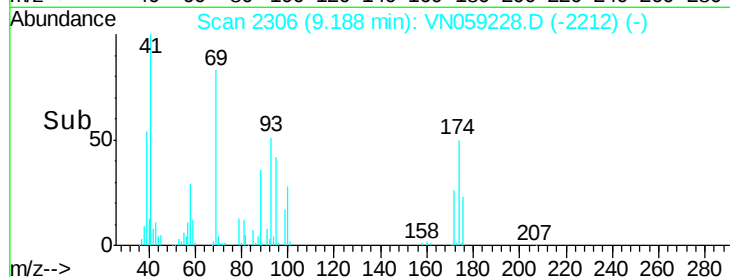
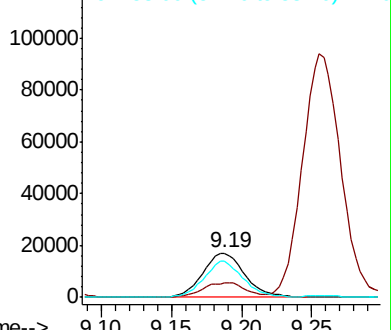


Abundance

Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.986 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059228.D

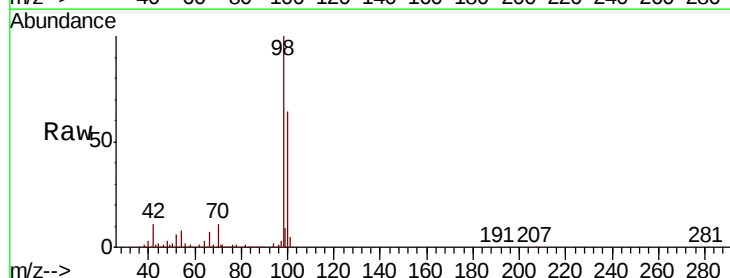
Acq: 14 Nov 2019 13:09

Tgt Ion: 98 Resp: 705538

Ion Ratio Lower Upper

98 100

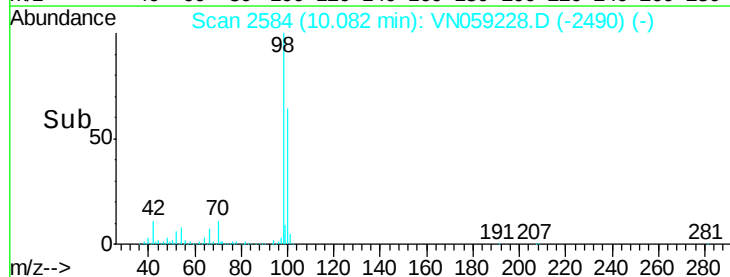
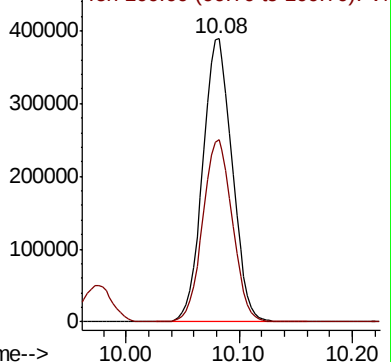
100 64.7 52.2 78.2

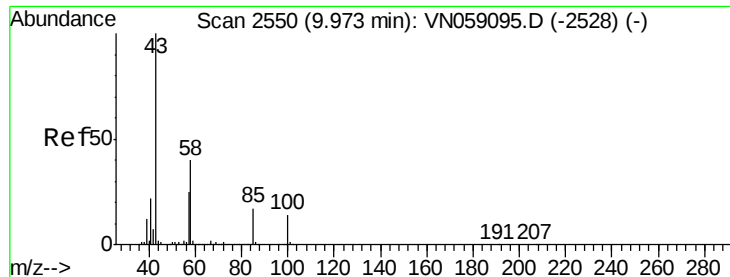


Abundance

Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 119.964 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 43 Resp: 675316

Ion Ratio Lower Upper

43 100

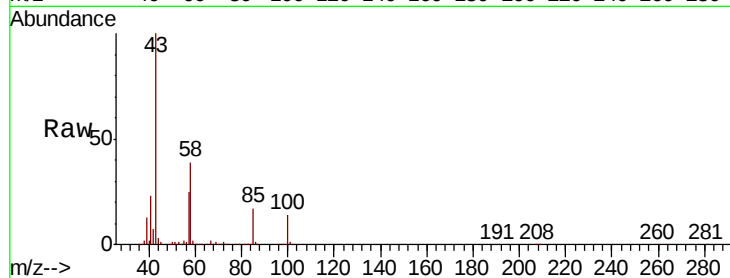
58 38.9 31.5 47.3

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VN059228.D (-2457) (-)

Ion 58.00 (57.70 to 58.70): VN059228.D (-2457) (-)

9.98

400000

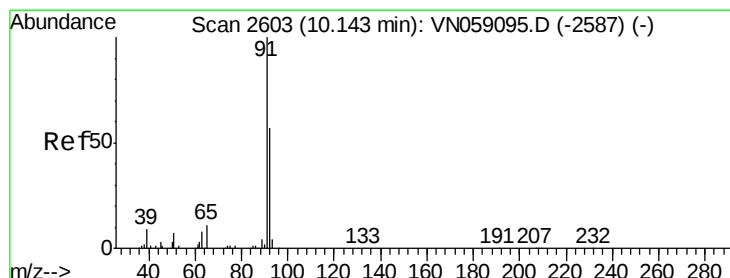
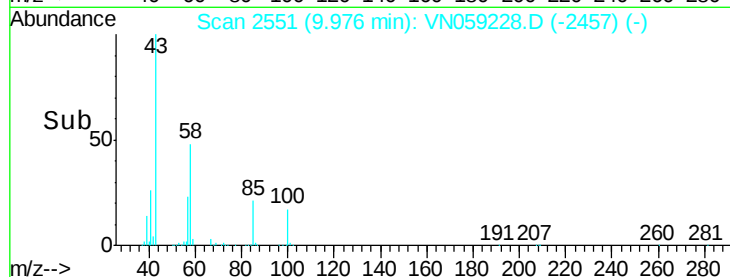
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 19.863 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN059228.D

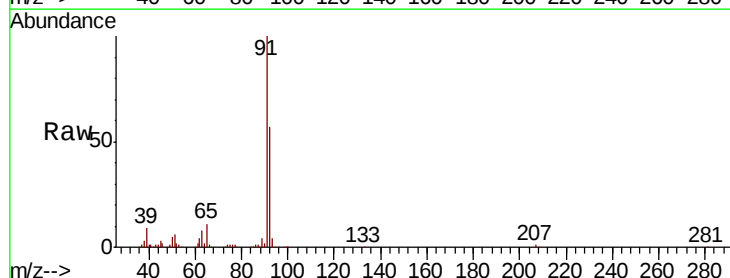
Acq: 14 Nov 2019 13:09

Tgt Ion: 92 Resp: 201107

Ion Ratio Lower Upper

92 100

91 175.4 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN059228.D (-2510) (-)

Ion 91.00 (90.70 to 91.70): VN059228.D (-2510) (-)

10.15

200000

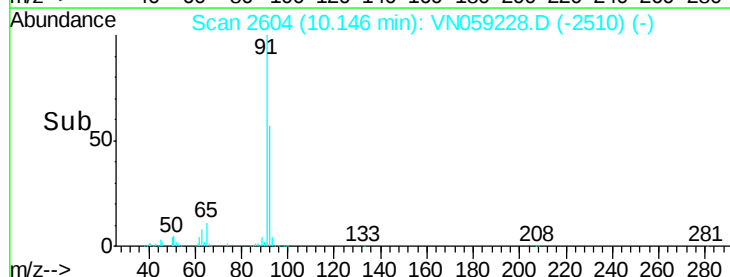
150000

100000

50000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 19.686 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 75 Resp: 129854

Ion Ratio Lower Upper

75 100

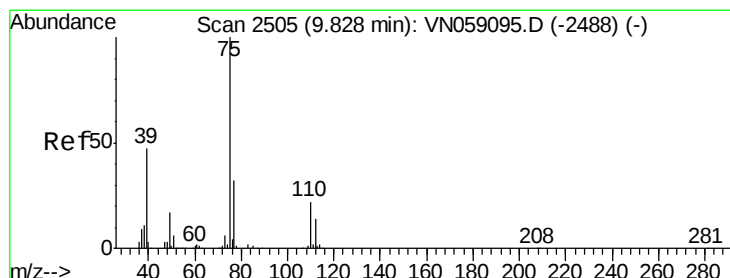
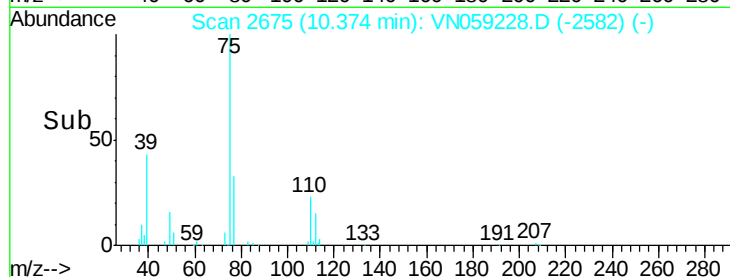
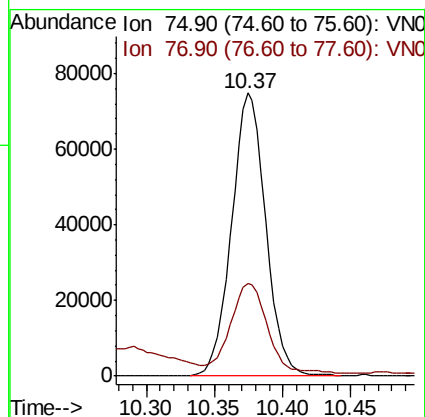
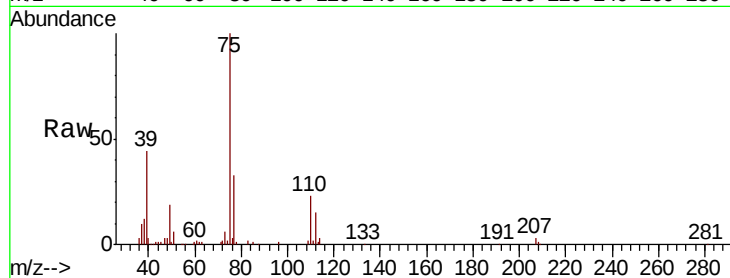
77 31.7 25.3 37.9

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 19.693 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

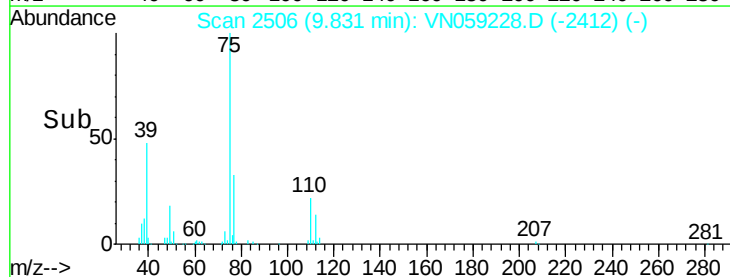
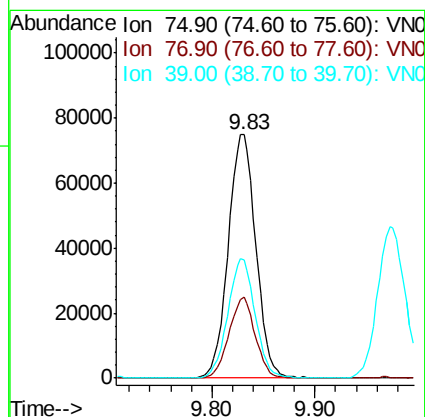
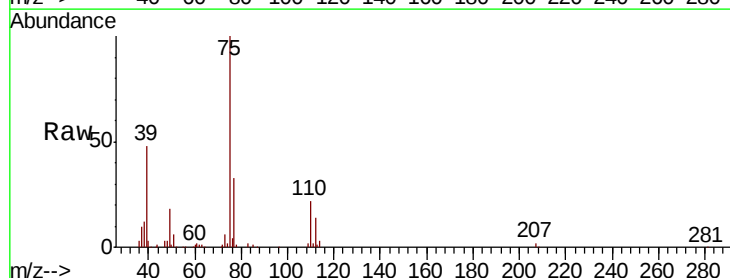
Tgt Ion: 75 Resp: 139726

Ion Ratio Lower Upper

75 100

77 33.2 25.5 38.3

39 48.4 37.3 55.9





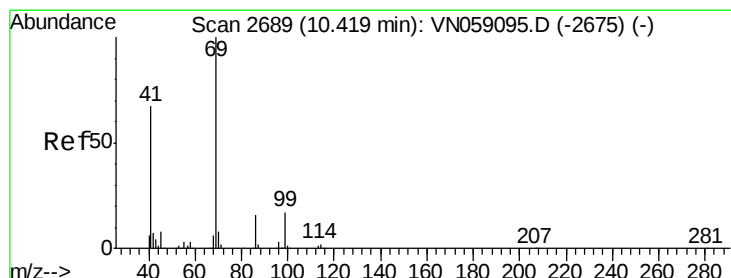
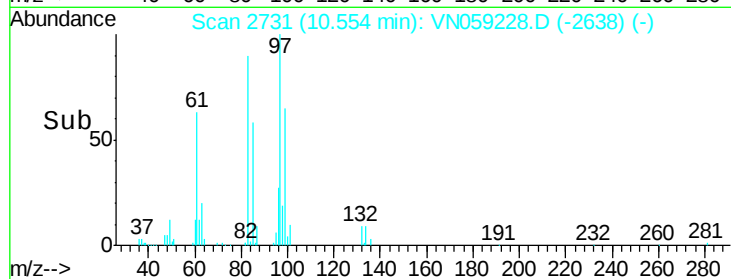
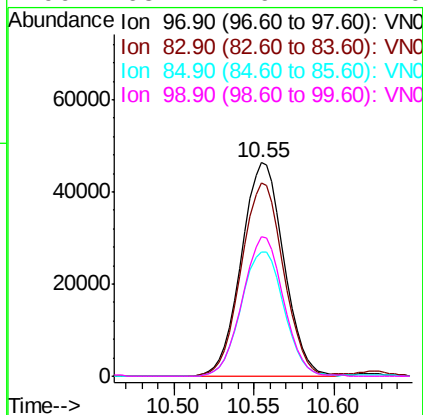
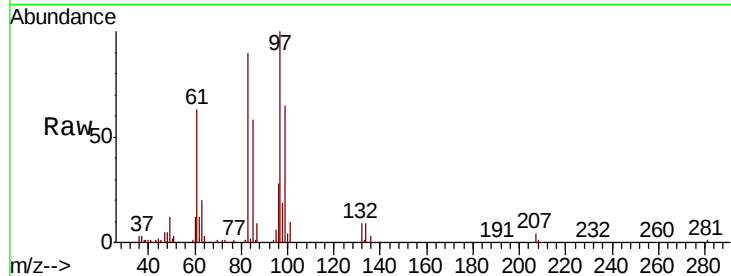
#55
 1,1,2-Trichloroethane
 Concen: 20.546 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. -0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Tot Ion:	97	Resp:	84188
Ion	Ratio	Lower	Upper
97	100		
83	90.4	71.0	106.4
85	58.1	45.8	68.8
99	65.4	49.4	74.0

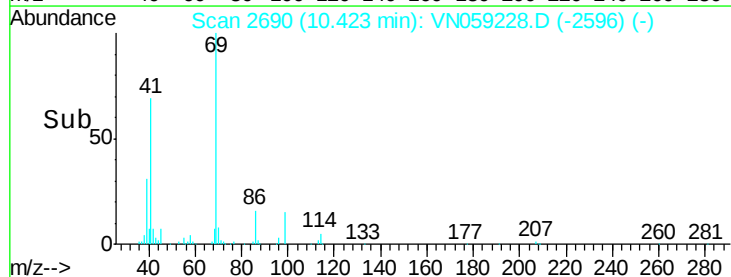
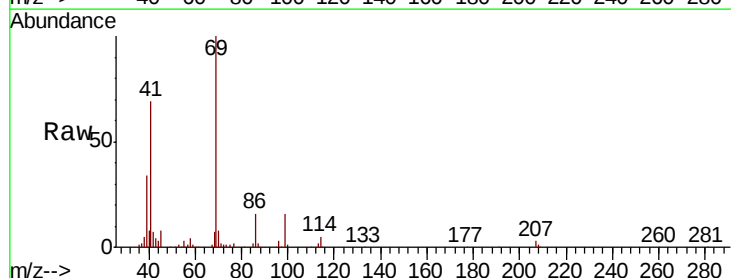
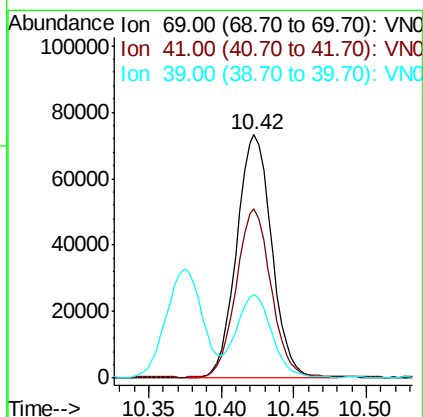
Manual Integrations
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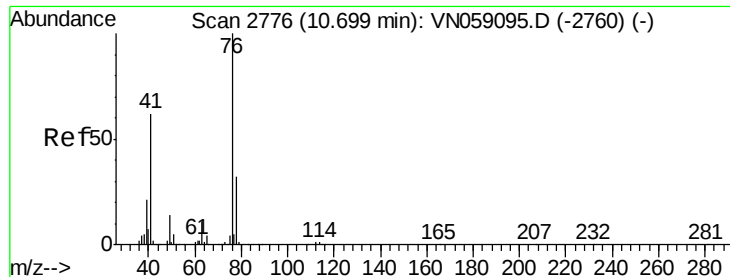
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#56
 Ethyl methacrylate
 Concen: 19.283 ug/l
 RT: 10.42 min Scan# 2690
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion:	69	Resp:	123612
Ion	Ratio	Lower	Upper
69	100		
41	68.6	53.6	80.4
39	34.0	26.2	39.4





#57

1,3-Dichloropropane

Concen: 20.868 ug/l

RT: 10.70 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 76 Resp: 147172

Ion Ratio Lower Upper

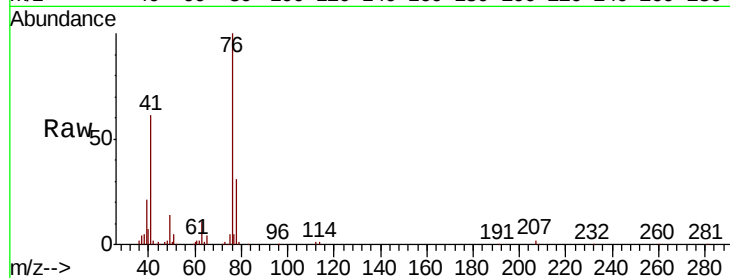
76 100

78 31.3 25.8 38.8

Manual Integrations
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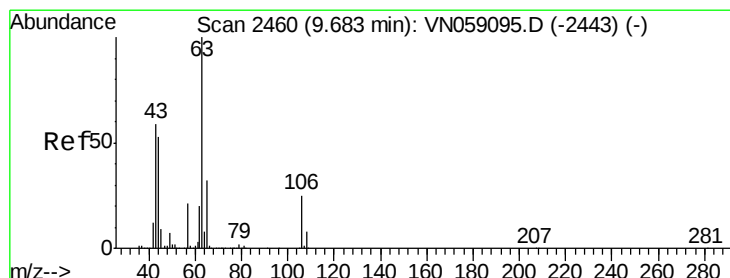
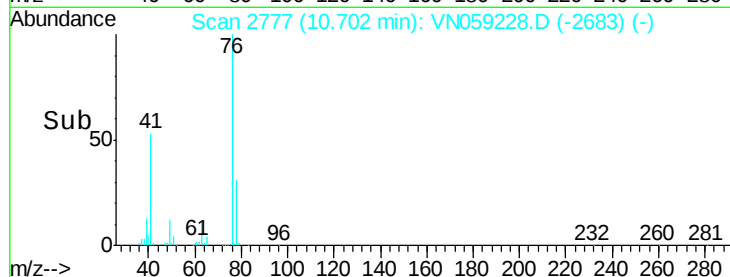
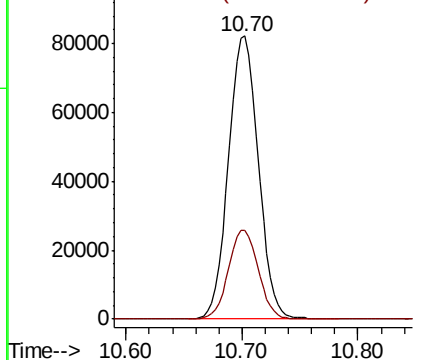
MMDadoda

11/15/2019 10:21:58 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 115.607 ug/l

RT: 9.68 min Scan# 2460

Delta R.T. -0.00 min

Lab File: VN059228.D

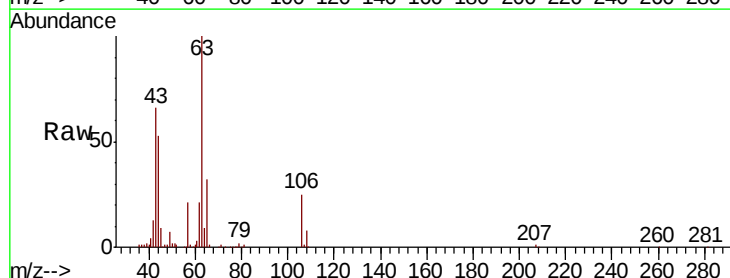
Acq: 14 Nov 2019 13:09

Tgt Ion: 63 Resp: 263632

Ion Ratio Lower Upper

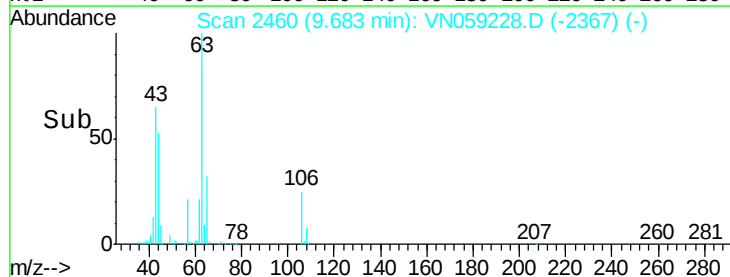
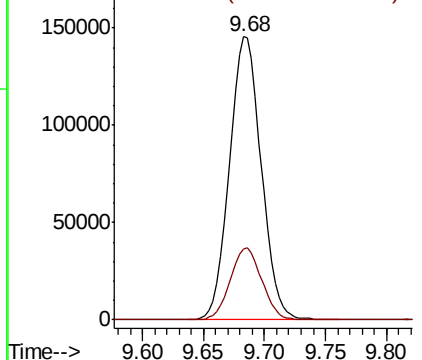
63 100

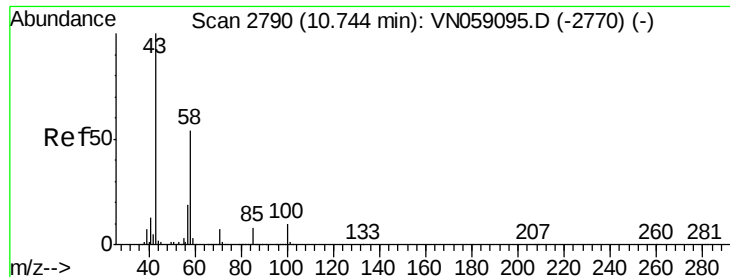
106 25.3 20.2 30.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





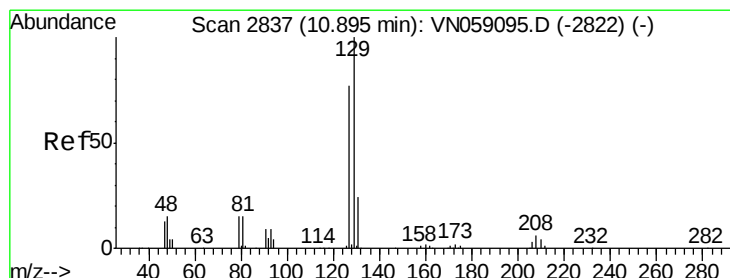
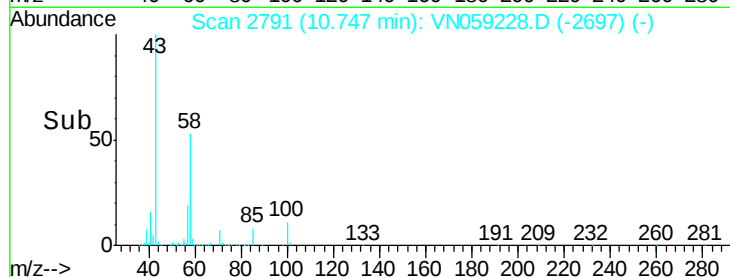
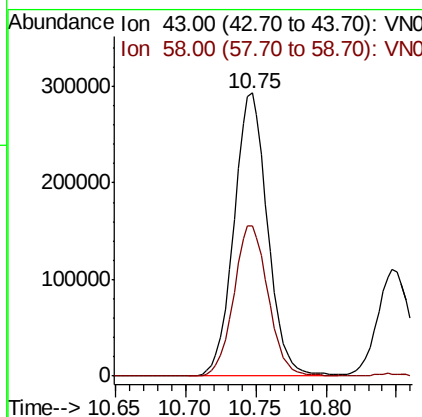
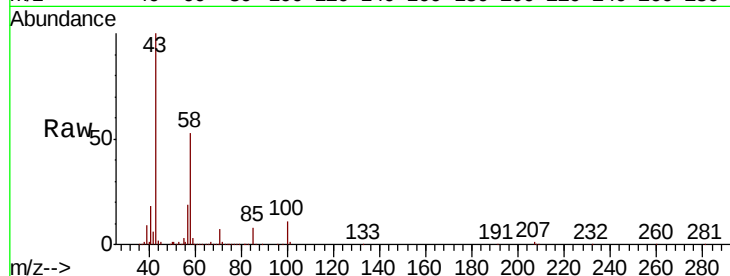
#59
2-Hexanone
Concen: 112.977 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion: 43 Resp: 488147
Ion Ratio Lower Upper
43 100
58 54.5 27.3 81.8

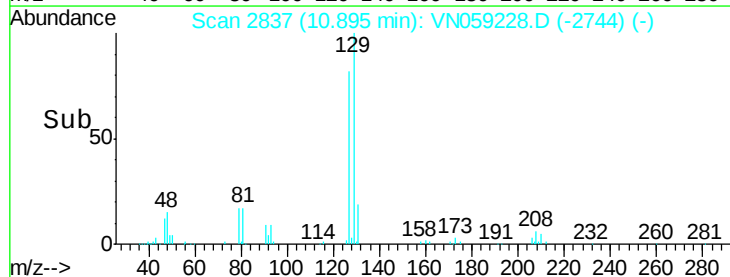
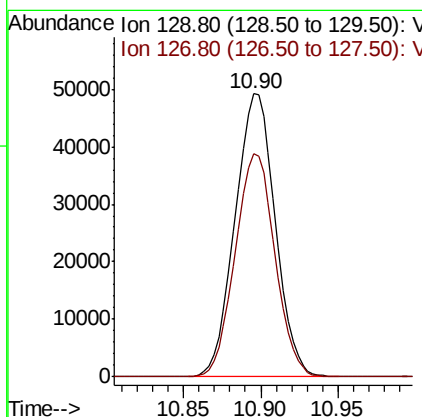
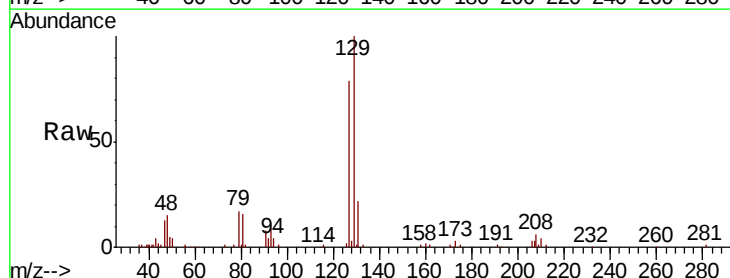
Manual Integrations
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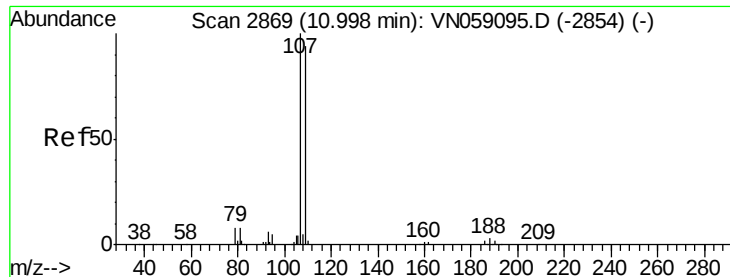
MMDadoda
11/15/2019 10:21:58 AM



#60
Dibromochloromethane
Concen: 20.553 ug/l
RT: 10.90 min Scan# 2837
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion: 129 Resp: 89043
Ion Ratio Lower Upper
129 100
127 78.0 38.6 115.8





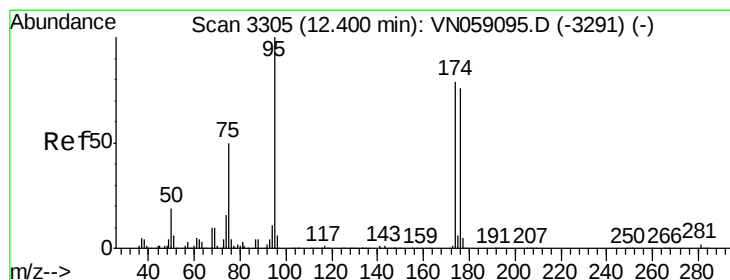
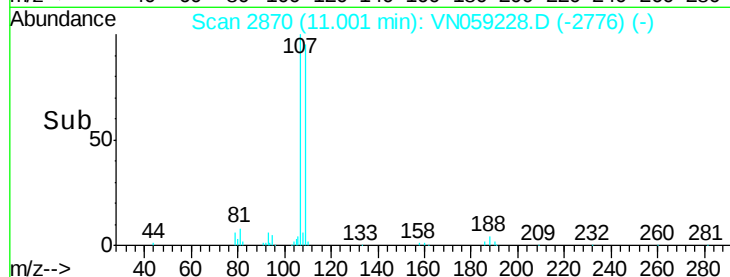
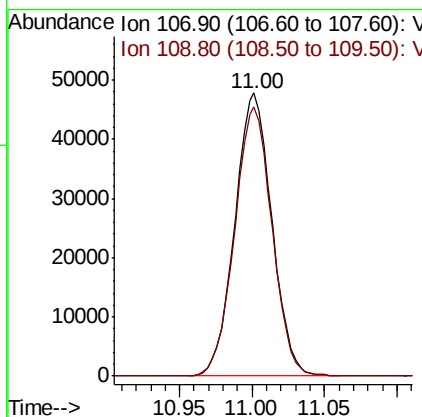
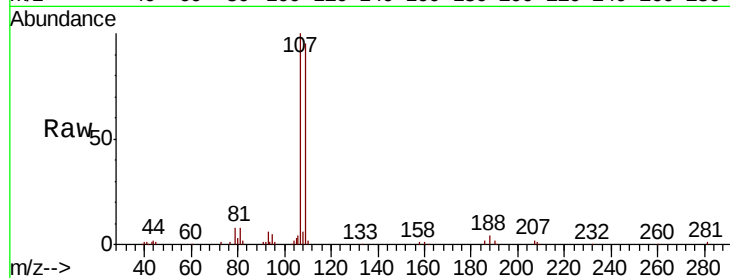
#61
 1,2-Dibromoethane
 Concen: 20.370 ug/l
 RT: 11.00 min Scan# 2870
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Tot Ion	Ratio	Lower	Upper
107	100		
109	96.0	75.5	113.3

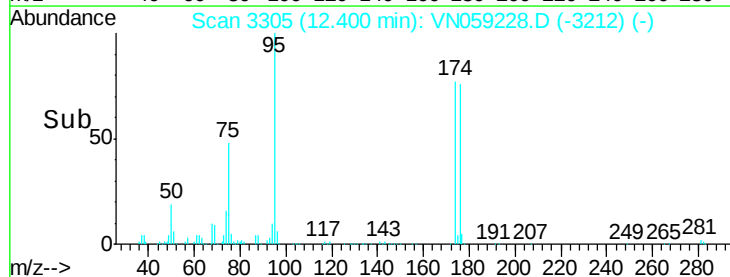
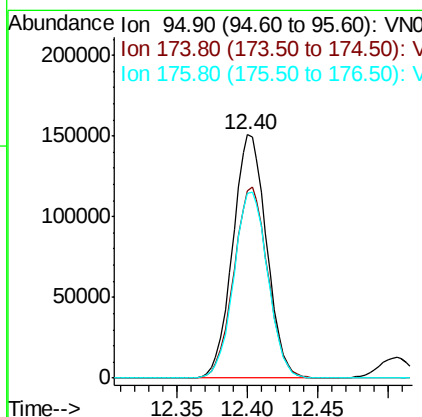
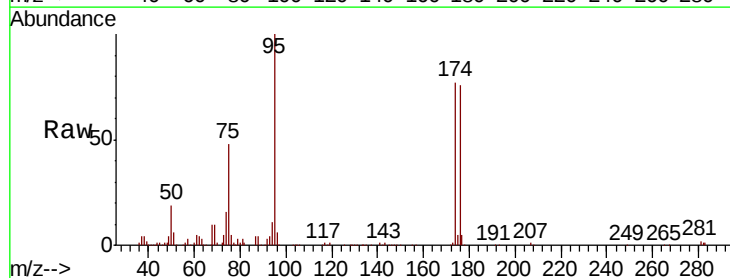
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#62
 4-Bromofluorobenzene
 Concen: 49.727 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	78.9	0.0	158.2
176	76.8	0.0	151.8





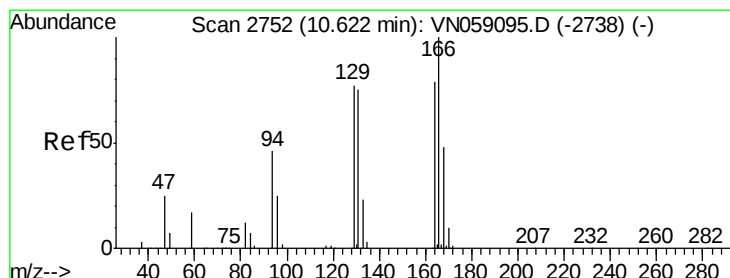
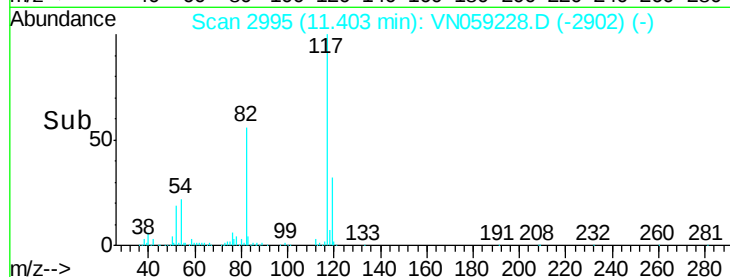
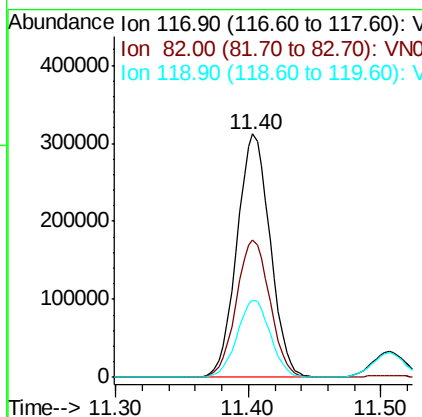
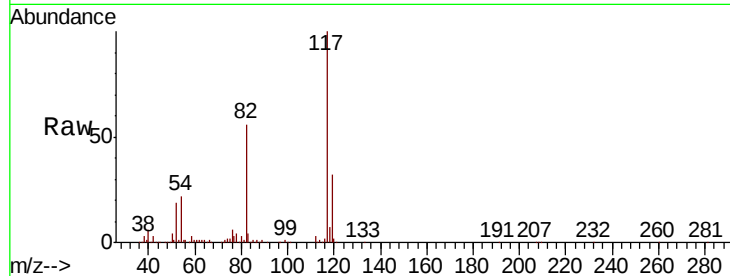
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.4	45.8	68.8
119	31.8	25.8	38.6

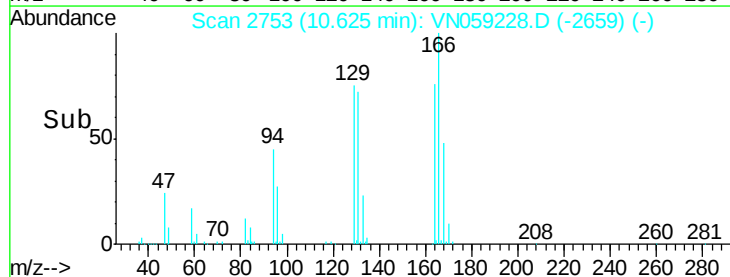
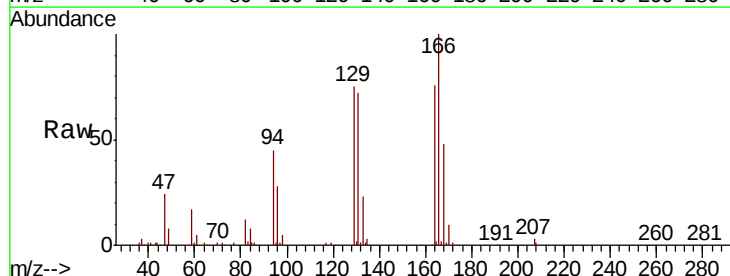
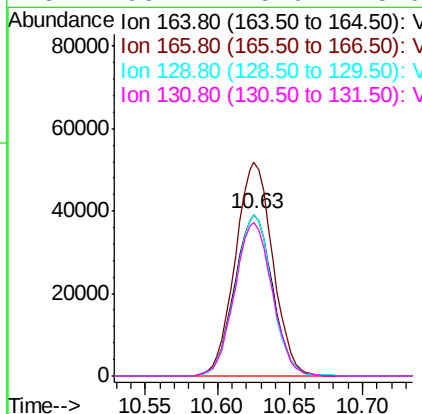
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#64
Tetrachloroethene
Concen: 19.085 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	132.4	101.5	152.3
129	99.7	78.3	117.5
131	95.2	75.9	113.9





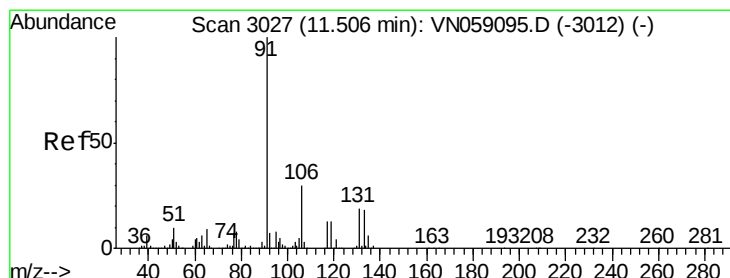
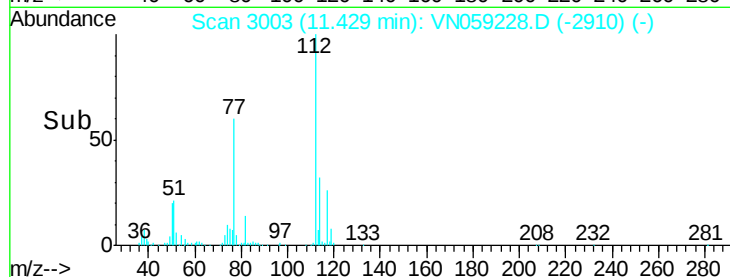
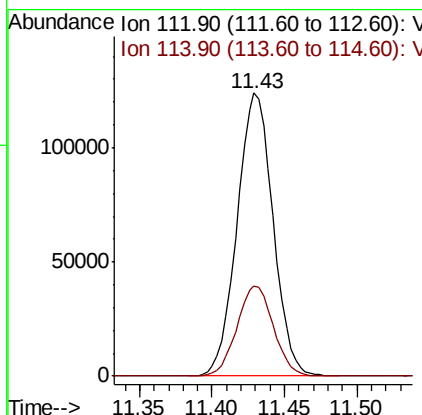
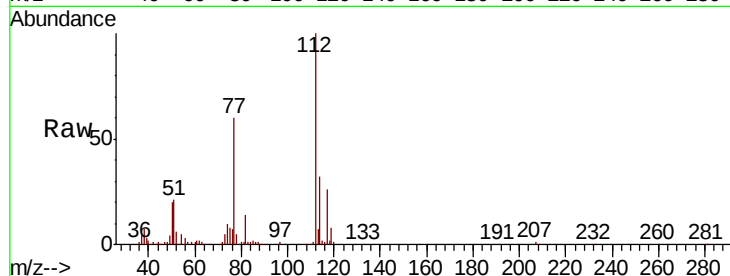
#65
Chlorobenzene
Concen: 20.131 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion:112 Resp: 213744
Ion Ratio Lower Upper
112 100
114 32.0 25.2 37.8

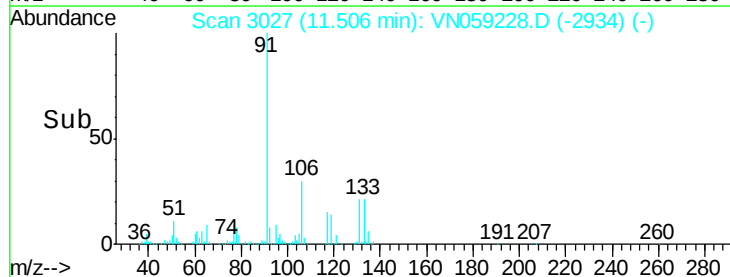
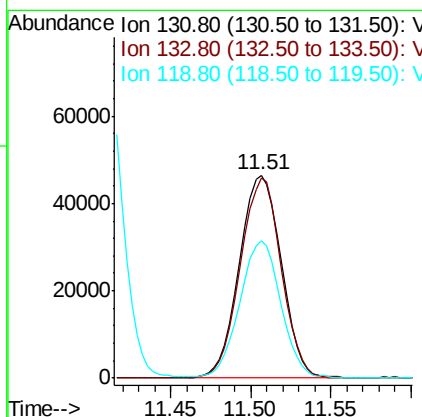
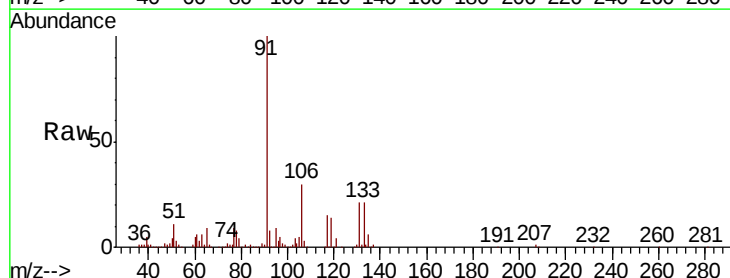
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#66
1,1,1,2-Tetrachloroethane
Concen: 20.903 ug/l
RT: 11.51 min Scan# 3027
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion:131 Resp: 83255
Ion Ratio Lower Upper
131 100
133 96.9 47.4 142.3
119 66.2 33.2 99.6





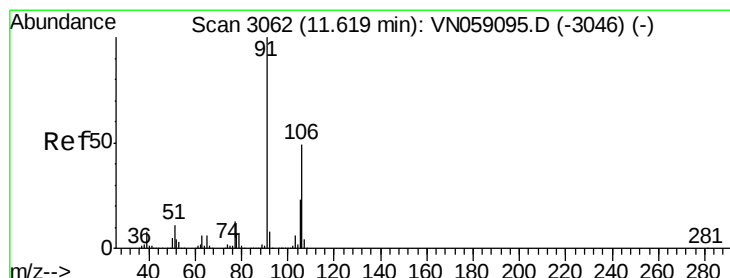
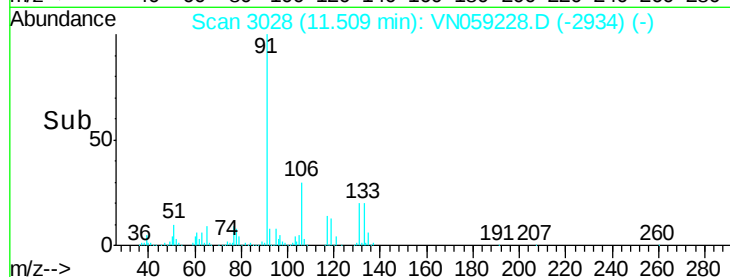
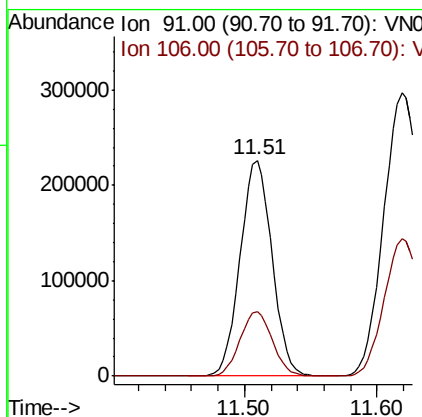
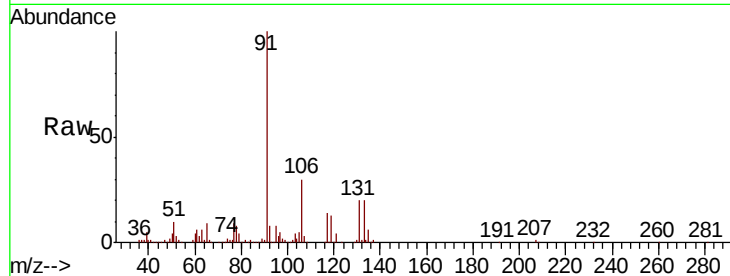
#67
Ethyl Benzene
Concen: 20.060 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
106	29.8	24.1	36.1	

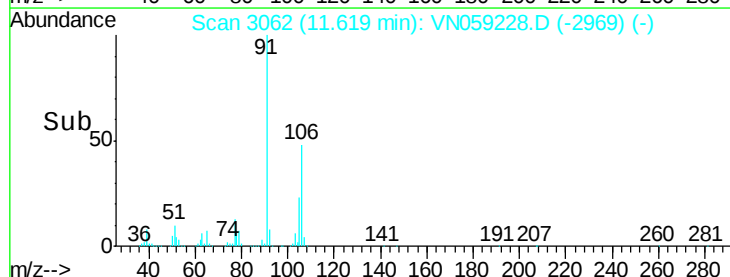
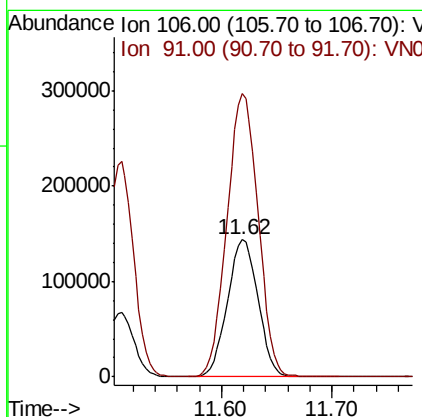
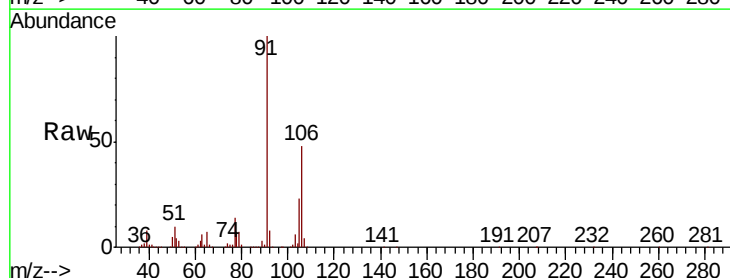
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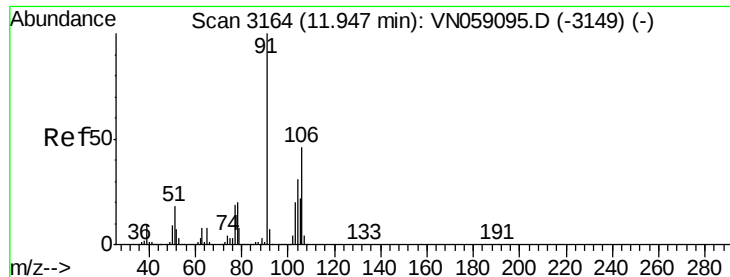
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#68
m/p-Xylenes
Concen: 39.402 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ion	Ratio	Lower	Upper
106	100			
91	208.2	164.7	247.1	





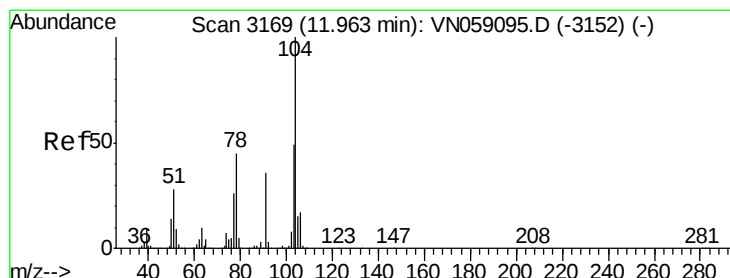
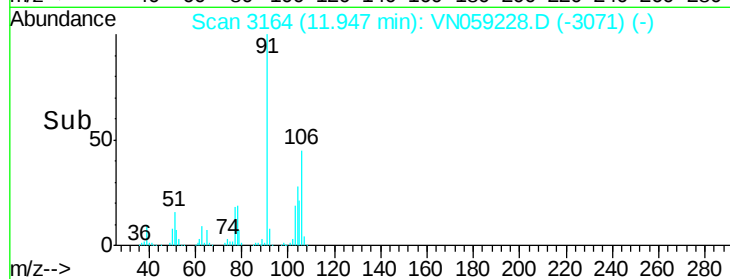
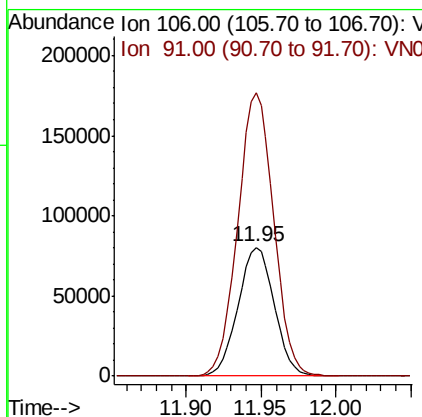
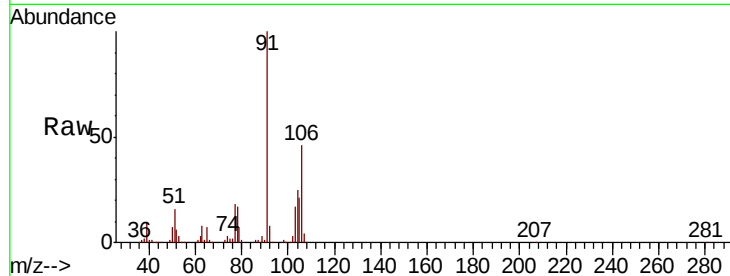
#69
o-Xylene
Concen: 19.815 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	135127		
91	91	218.5	110.1	330.3	

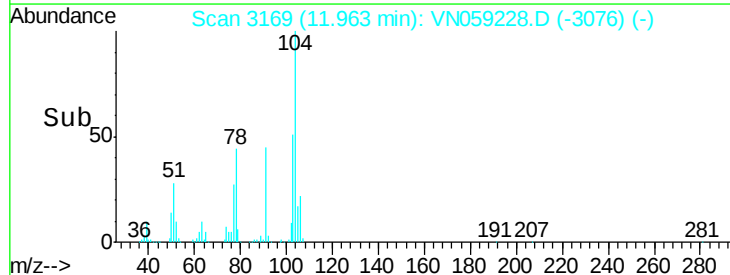
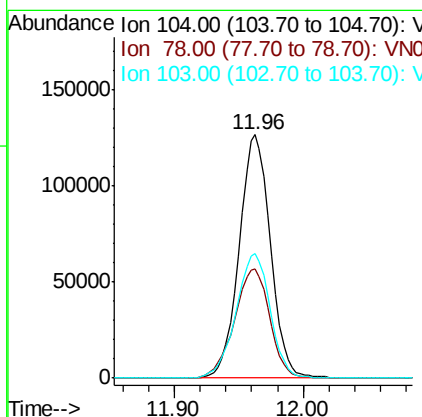
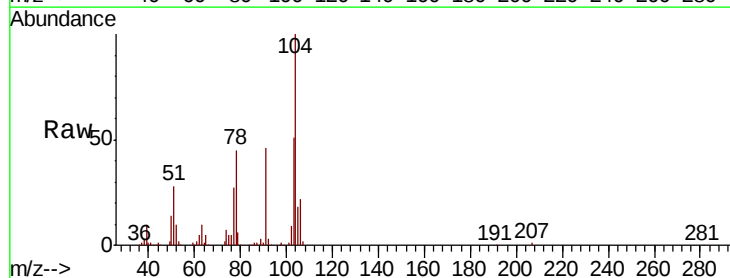
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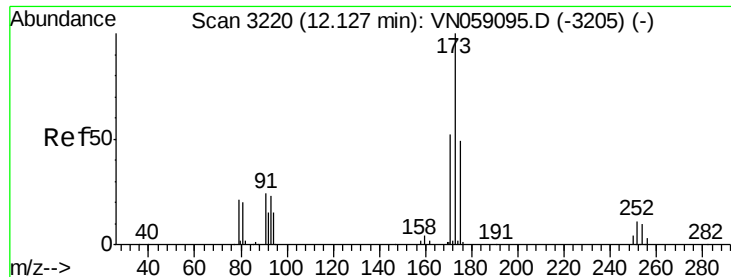
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#70
Styrene
Concen: 19.893 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	213356		
78	78	51.0	41.2	61.8	
103	103	56.0	43.8	65.6	





#71

Bromoform

Concen: 21.359 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

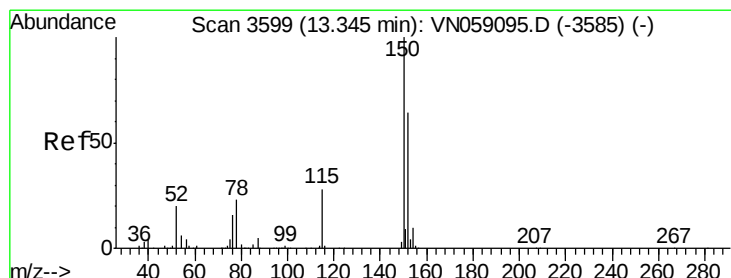
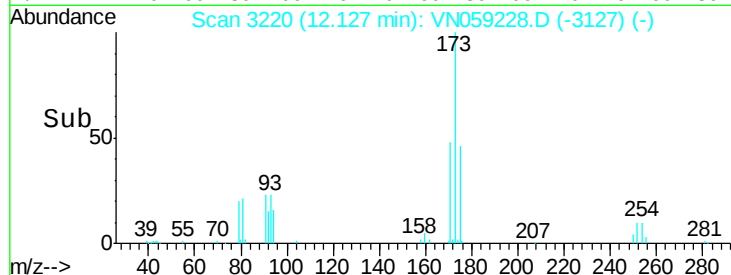
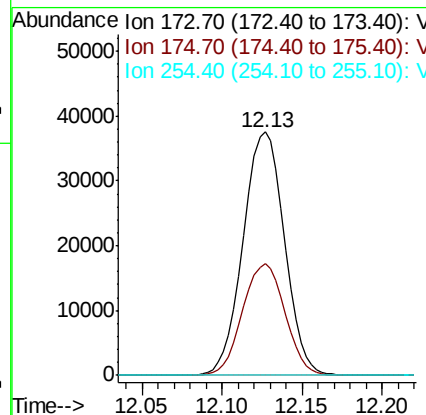
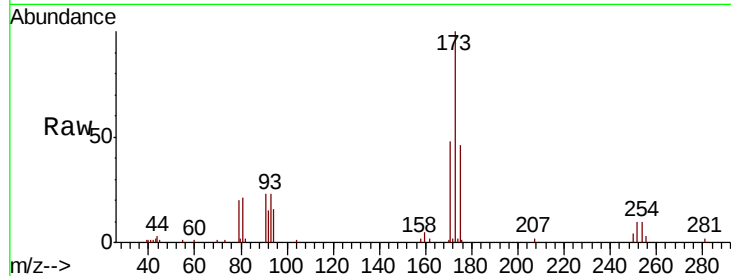
ClientSampleId :

VN1114MBS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	47.1	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

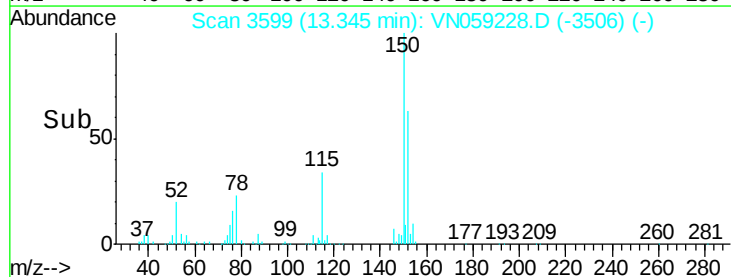
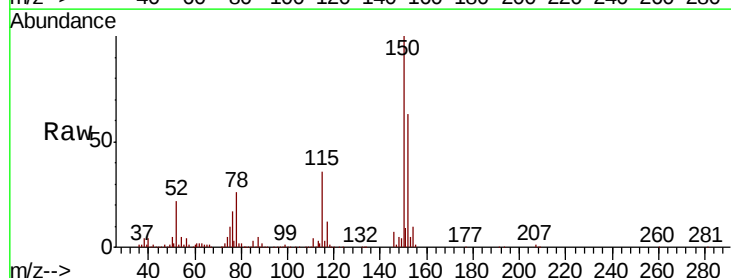
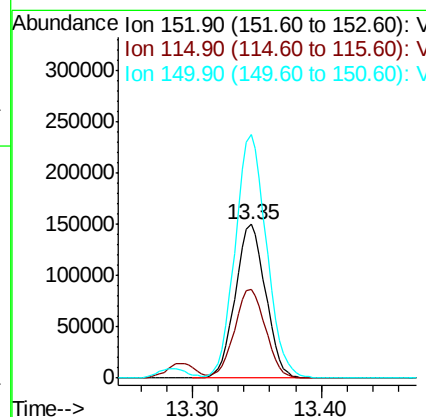
RT: 13.35 min Scan# 3599

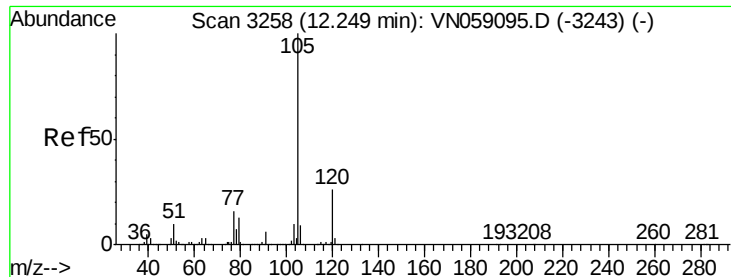
Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.0	29.4	88.2
150	163.8	0.0	345.8





#73

Isopropylbenzene

Concen: 20.344 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 105 Resp: 361930

Ion Ratio Lower Upper

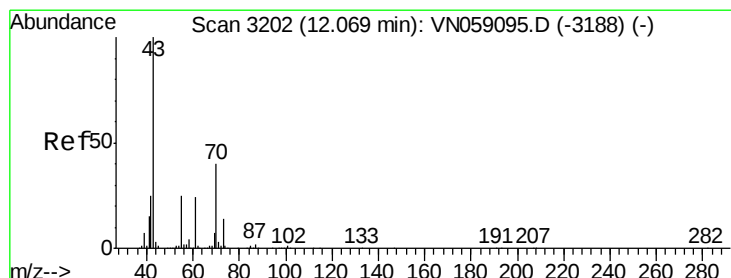
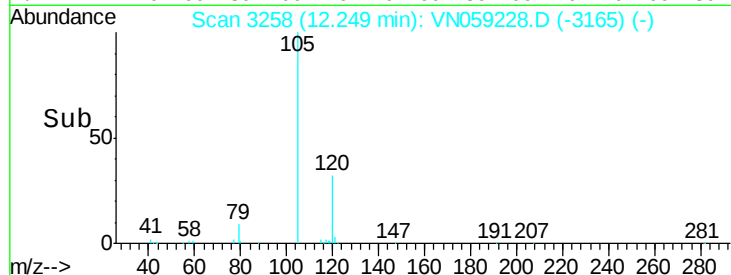
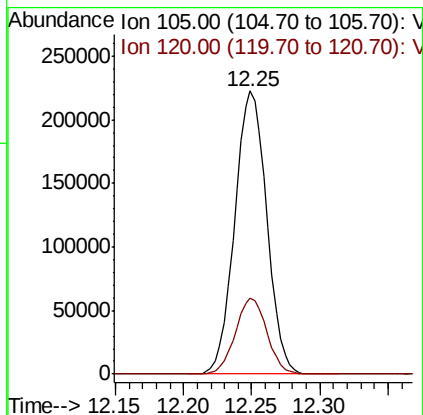
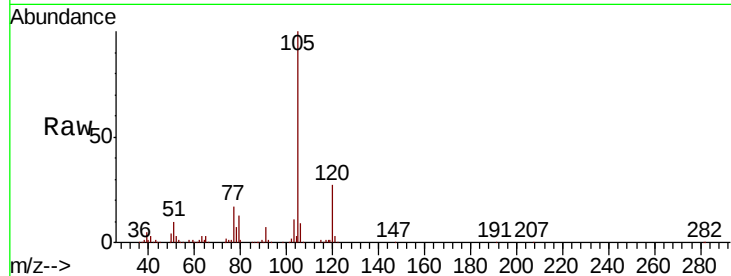
105 100

120 26.4 13.1 39.3

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#74

N-ethyl acetate

Concen: 20.649 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion: 43 Resp: 155659

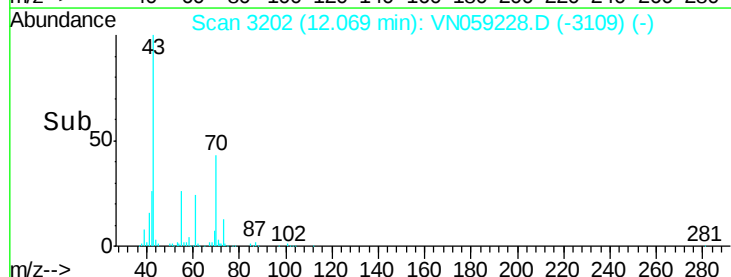
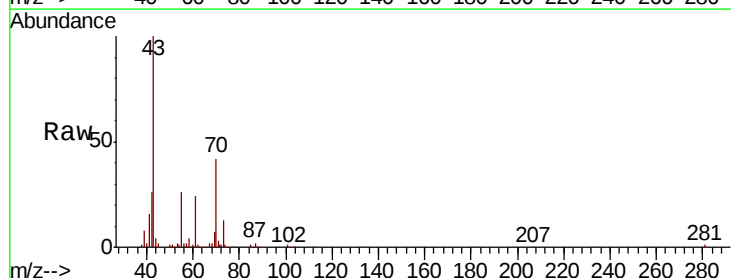
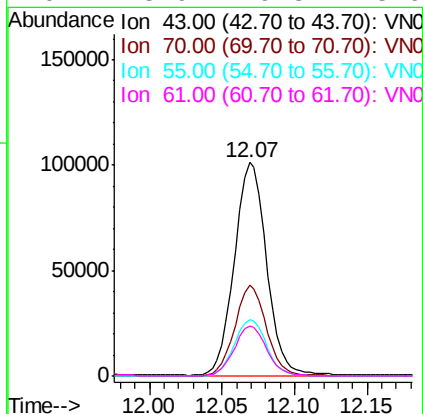
Ion Ratio Lower Upper

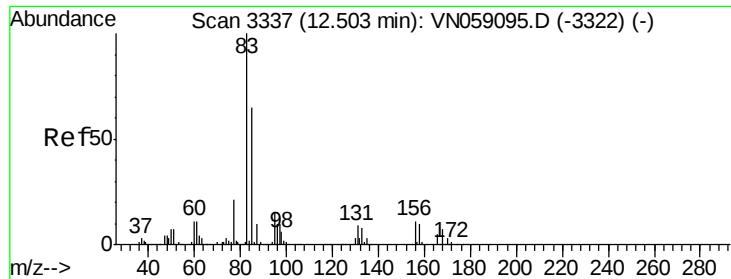
43 100

70 42.1 32.2 48.4

55 26.6 20.4 30.6

61 23.9 19.3 28.9





#75

1,1,2,2-Tetrachloroethane

Concen: 22.021 ug/l

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 83 Resp: 133411

Ion Ratio Lower Upper

83 100

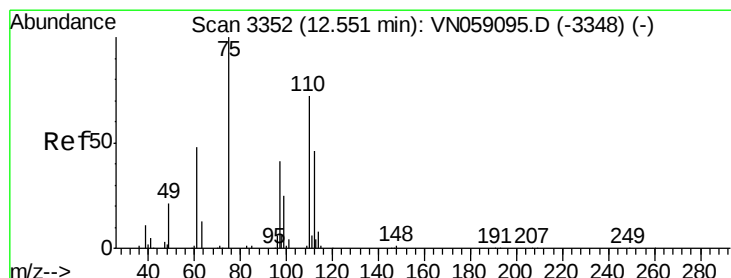
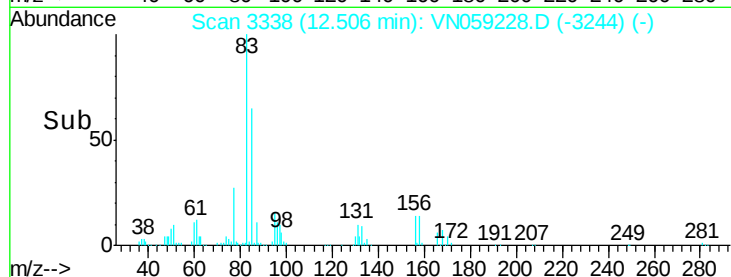
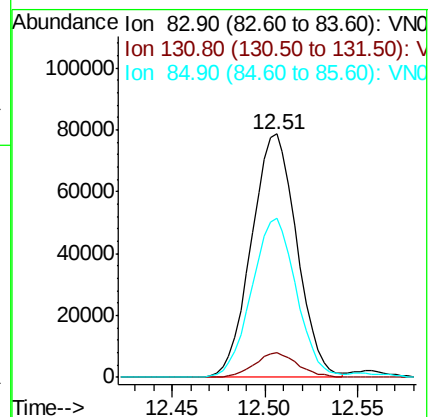
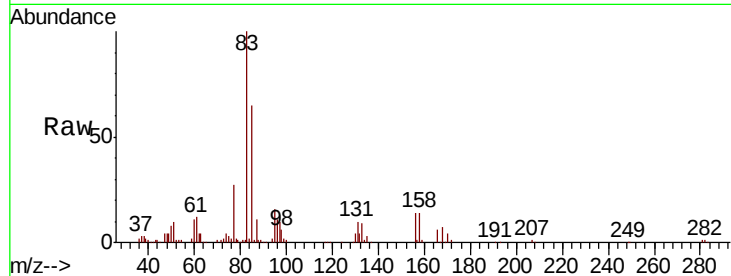
131 9.7 4.9 14.6

85 64.2 32.4 97.2

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#76

1,2,3-Trichloropropane

Concen: 21.206 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN059228.D

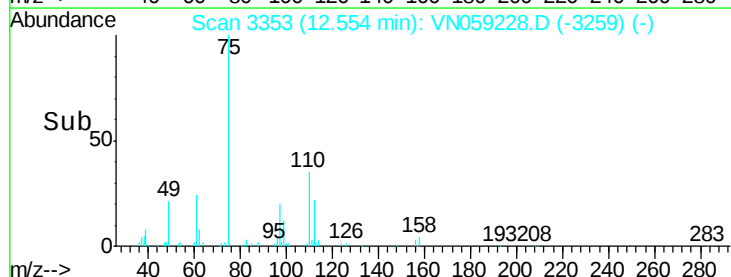
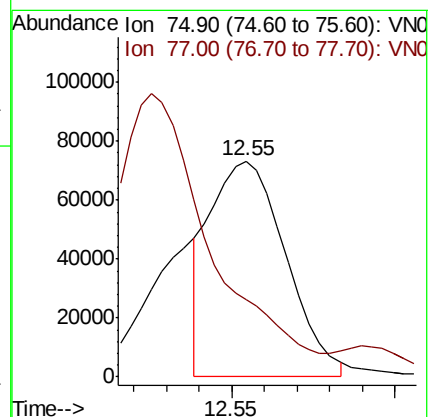
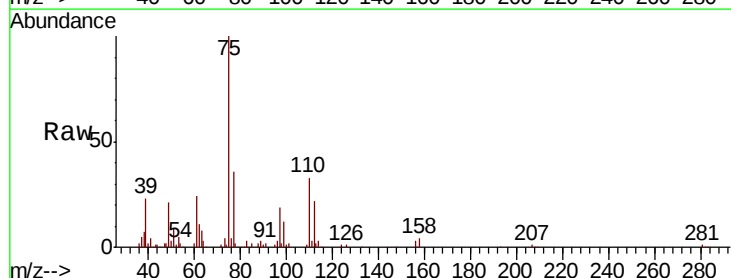
Acq: 14 Nov 2019 13:09

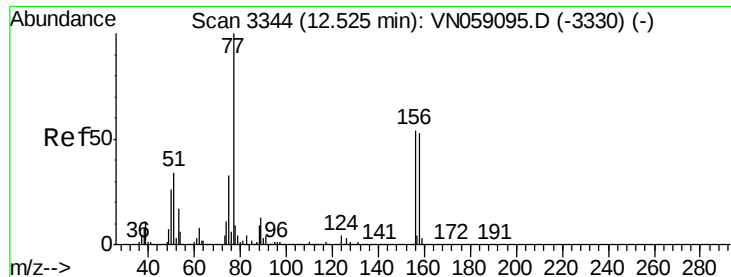
Tgt Ion: 75 Resp: 118077

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#77

Bromobenzene

Concen: 19.798 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion:156 Resp: 88491

Ion Ratio Lower Upper

156 100

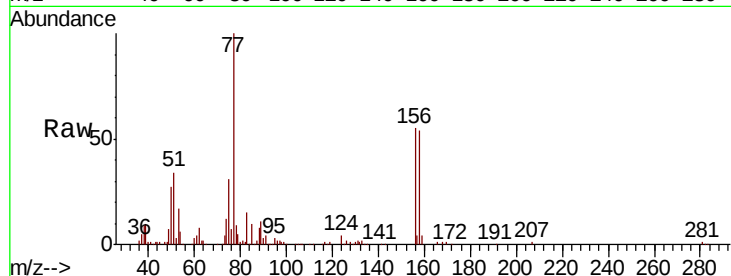
77 230.1 112.8 338.3

158 98.6 48.4 145.3

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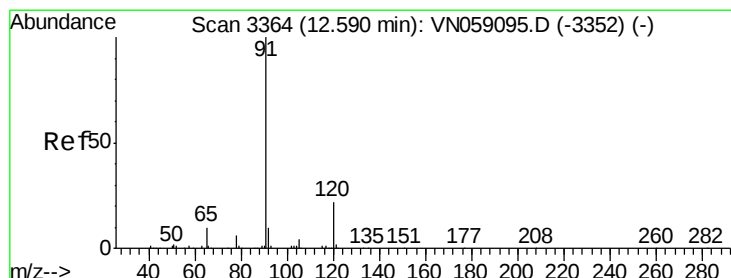
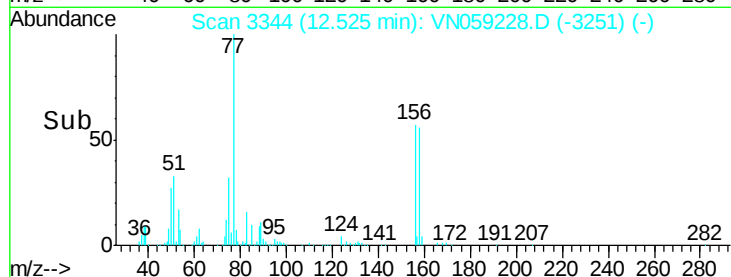
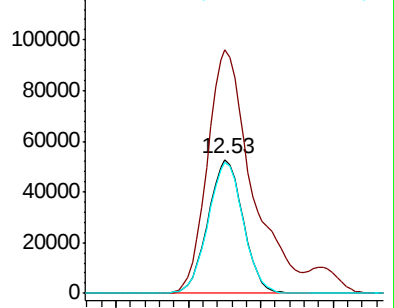
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 20.477 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN059228.D

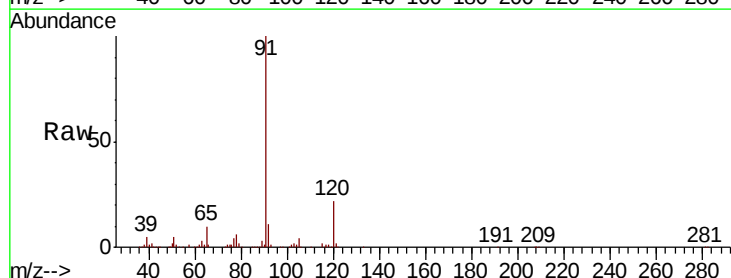
Acq: 14 Nov 2019 13:09

Tgt Ion: 91 Resp: 417109

Ion Ratio Lower Upper

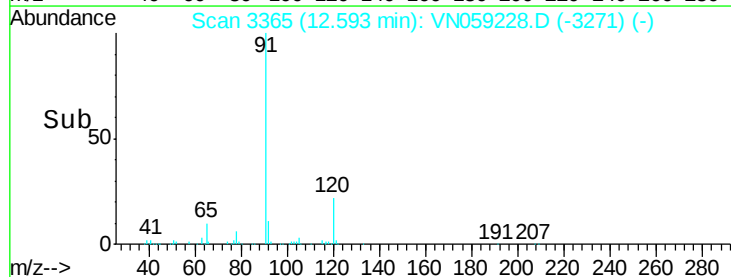
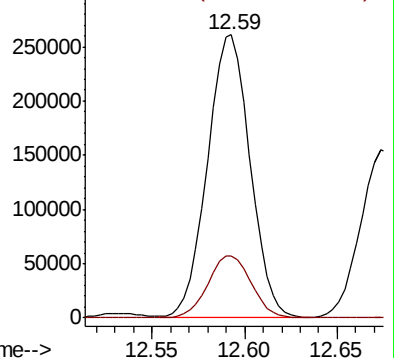
91 100

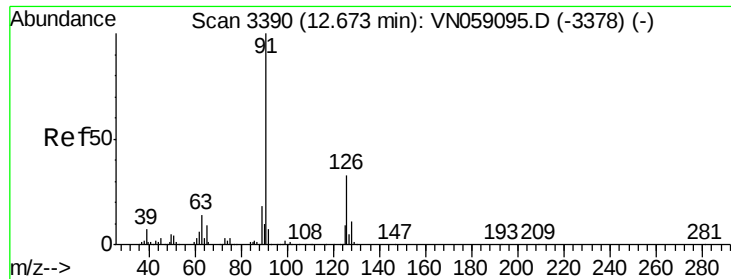
120 22.3 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.330 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion: 91 Resp: 256899

Ion Ratio Lower Upper

91 100

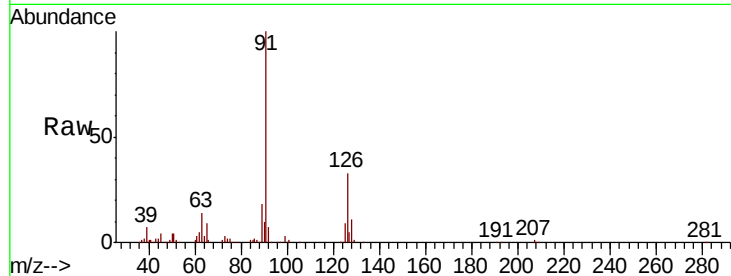
126 33.0 16.7 50.1

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Abundance Ion 91.00 (90.70 to 91.70): VN059095.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN059095.D (-3378) (-)

250000

200000

150000

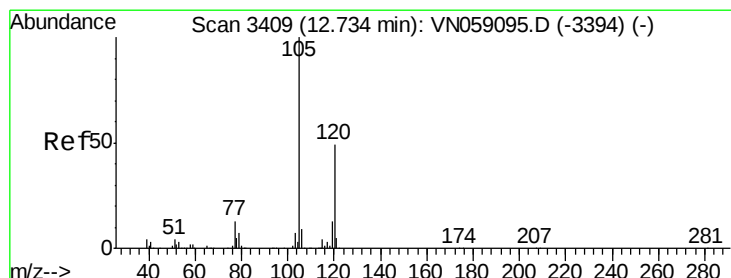
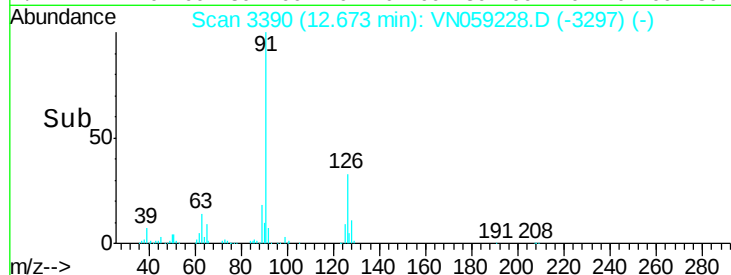
100000

50000

0

12.60 12.65 12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.244 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.00 min

Lab File: VN059228.D

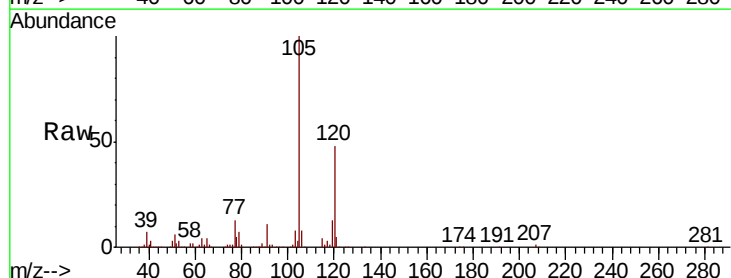
Acq: 14 Nov 2019 13:09

Tgt Ion: 105 Resp: 305170

Ion Ratio Lower Upper

105 100

120 48.6 24.0 72.0



Abundance Ion 105.00 (104.70 to 105.70): VN059095.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN059095.D (-3394) (-)

200000

150000

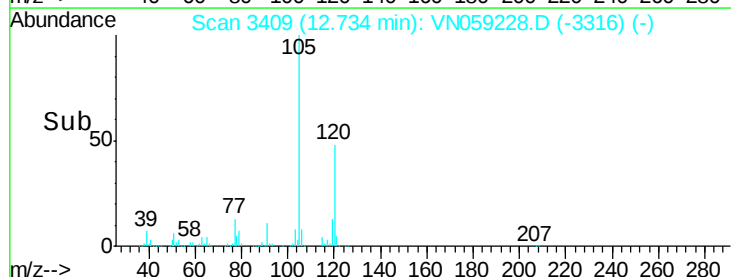
100000

50000

0

12.65 12.70 12.75 12.80

Time-->





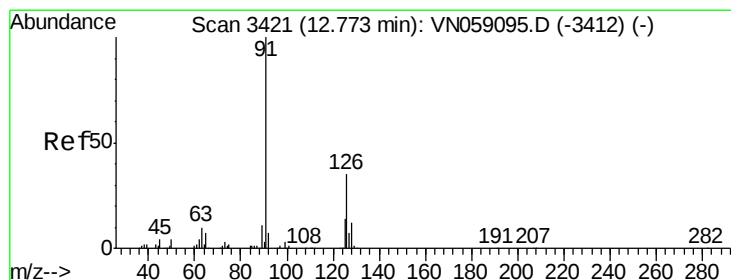
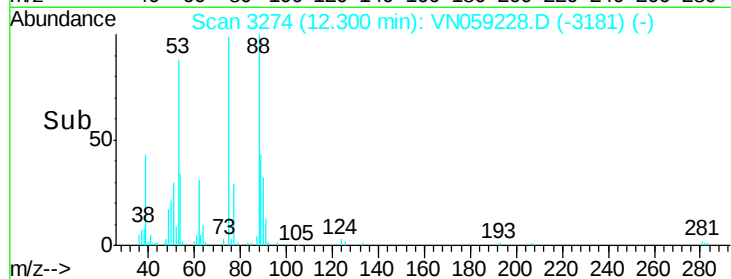
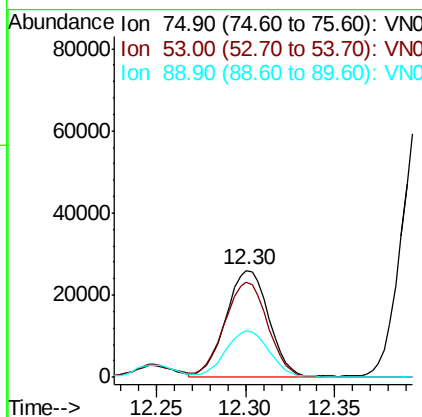
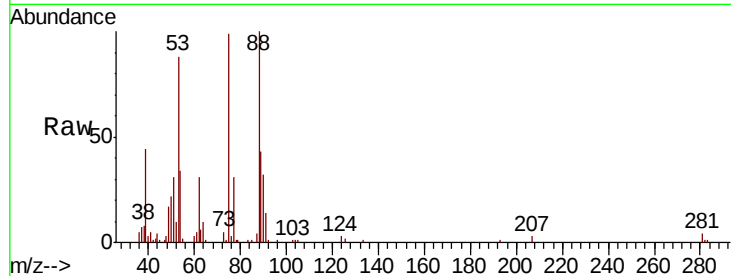
#81
trans-1,4-Dichloro-2-butene
Concen: 20.815 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	87.7	72.2	108.2
89	44.1	35.8	53.8

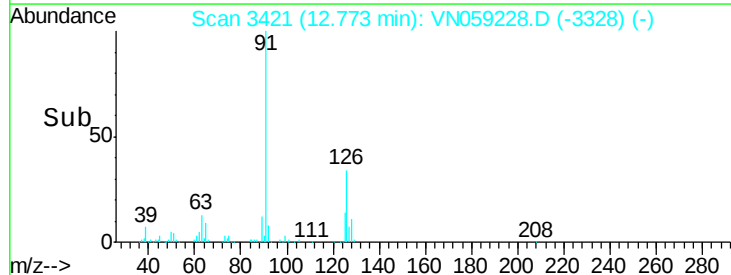
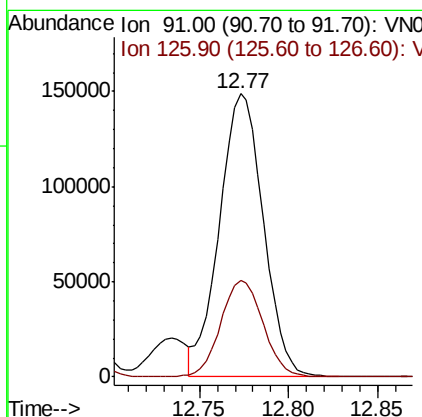
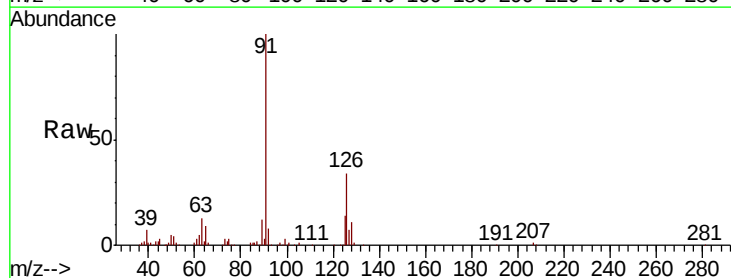
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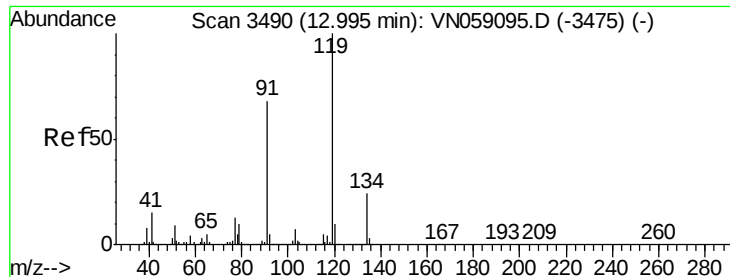
MMDadoda
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#82
4-Chlorotoluene
Concen: 19.906 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.1	48.2





#83

tert-Butylbenzene

Concen: 20.200 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

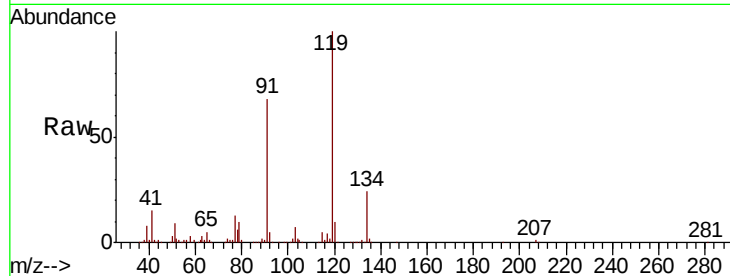
ClientSampleId :

VN1114MBS01

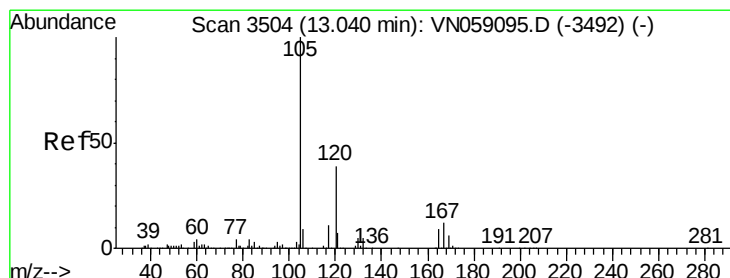
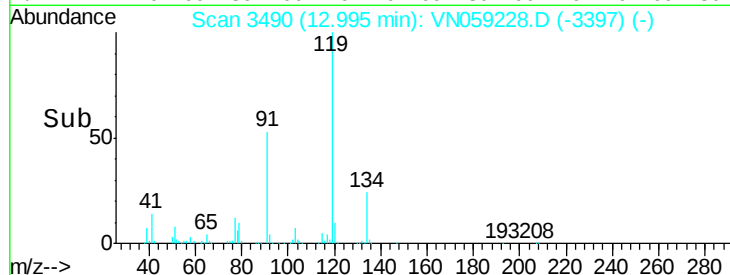
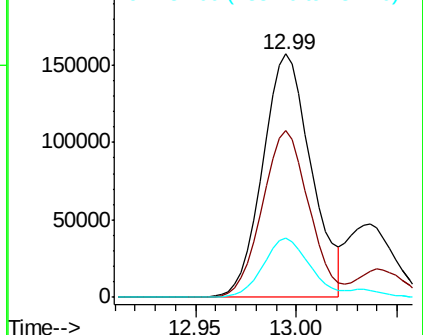
Tot Ion:	119	Resp:	262970
Ion Ratio		Lower	Upper
119	100		
91	66.3	33.2	99.6
134	23.6	12.7	38.1

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Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.512 ug/l

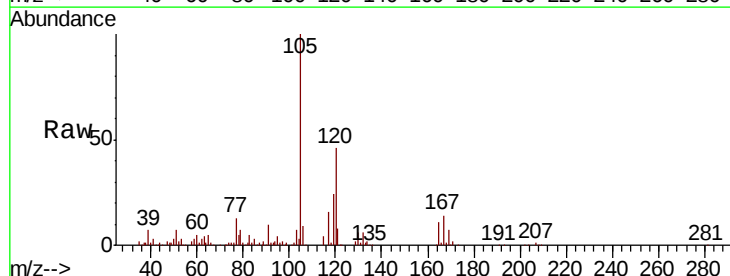
RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

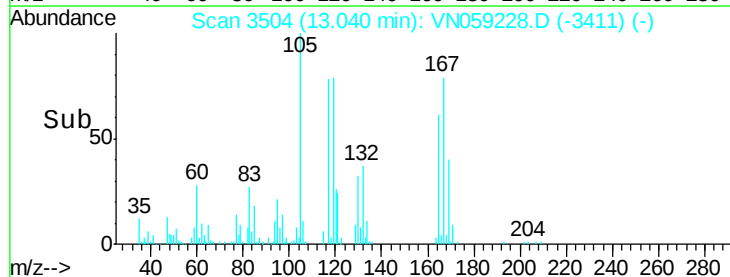
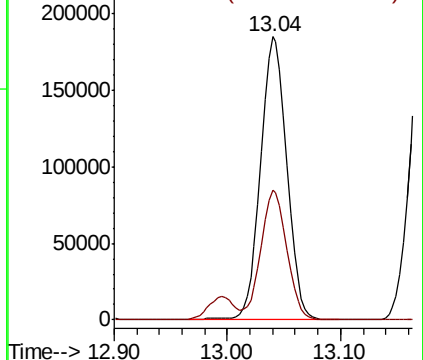
Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion:	105	Resp:	299159
Ion Ratio		Lower	Upper
105	100		
120	45.3	22.8	68.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 20.187 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Instrument :

MSVOA_N

ClientSampleId :

VN1114MBS01

Tot Ion:105 Resp: 341773

Ion Ratio Lower Upper

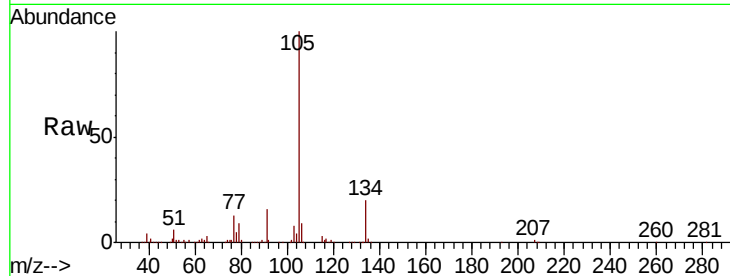
105 100

134 19.5 9.7 29.1

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

250000

200000

150000

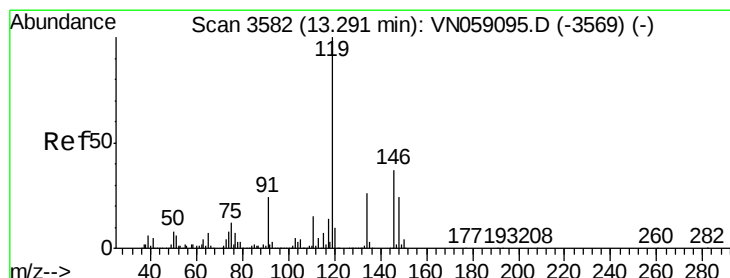
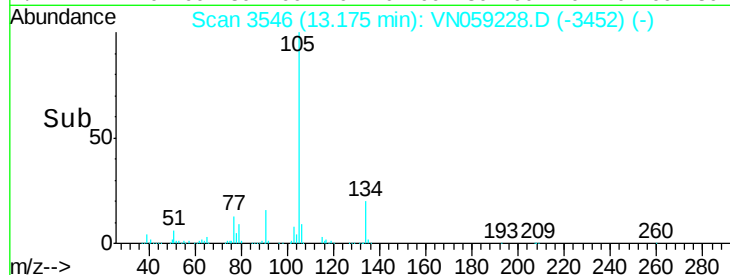
100000

50000

0

13.10 13.15 13.20 13.25

Time-->



#86

p-Isopropyltoluene

Concen: 20.203 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

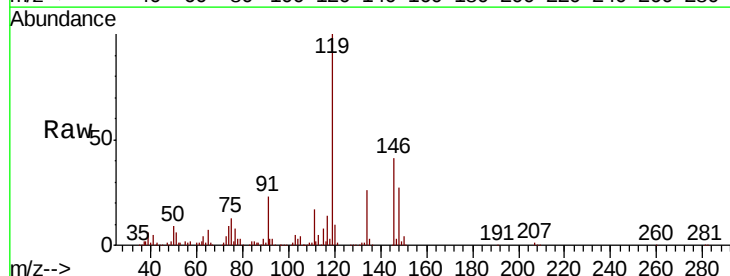
Tgt Ion:119 Resp: 302020

Ion Ratio Lower Upper

119 100

134 26.0 13.0 38.9

91 23.8 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

250000

200000

150000

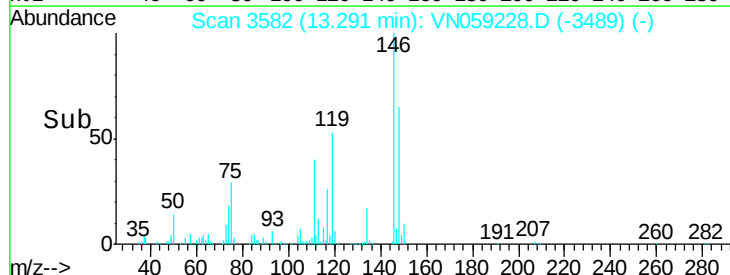
100000

50000

0

13.20 13.30

Time-->





#87

1,3-Dichlorobenzene

Concen: 20.176 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.00 min

Lab File: VN059228.D

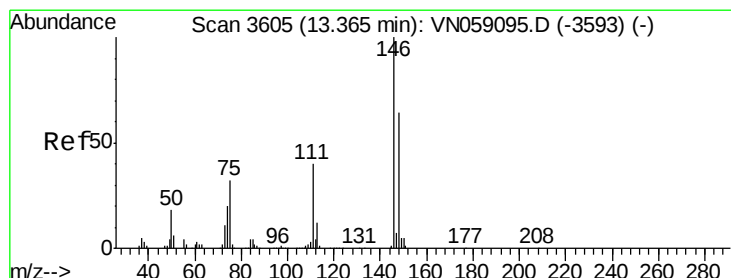
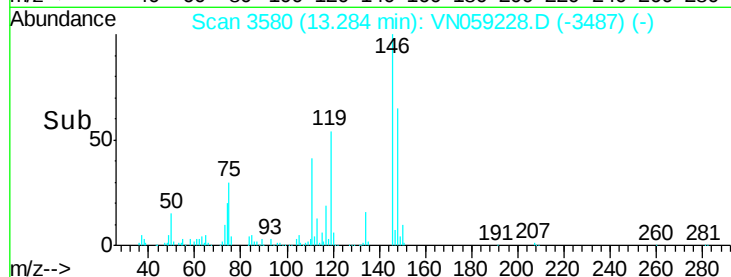
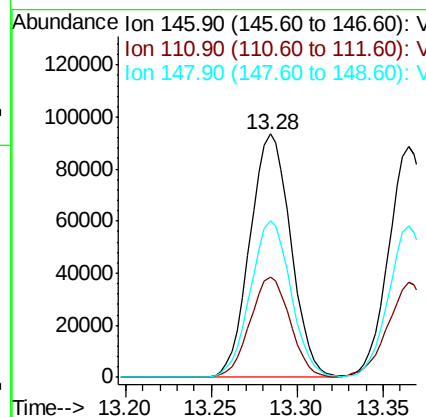
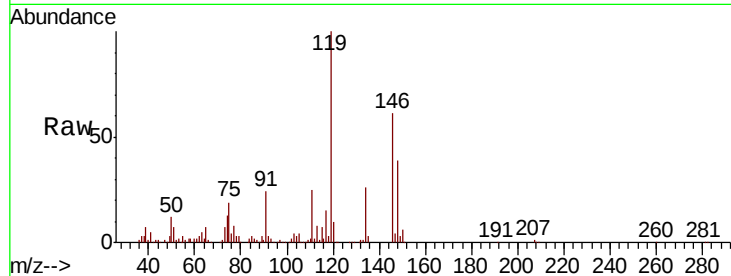
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.4	20.4	61.3
148	63.8	32.2	96.6

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#88

1,4-Dichlorobenzene

Concen: 19.530 ug/l

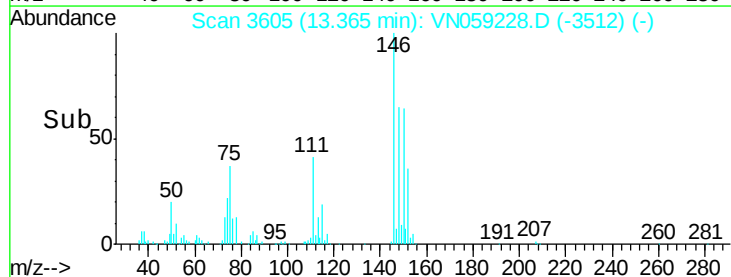
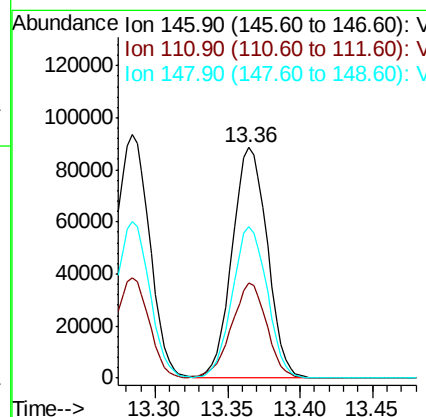
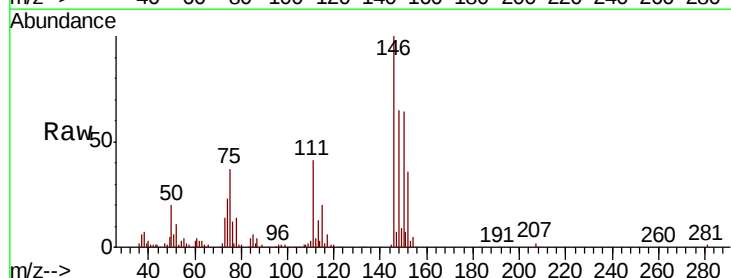
RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN059228.D

Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.3	60.9
148	64.8	31.9	95.7





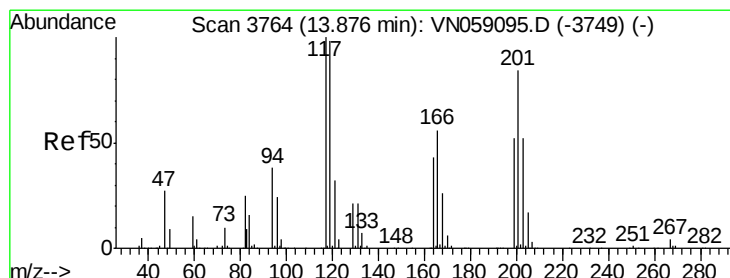
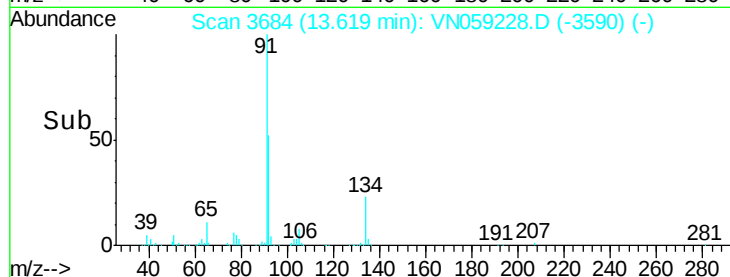
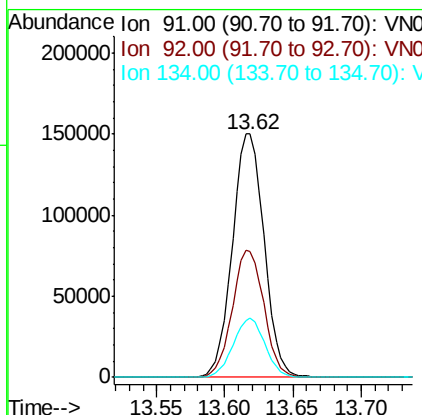
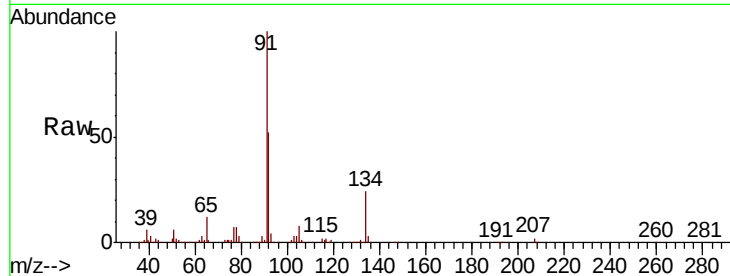
#89
n-Butylbenzene
Concen: 18.574 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.7	26.1	78.3
134	24.2	12.6	37.8

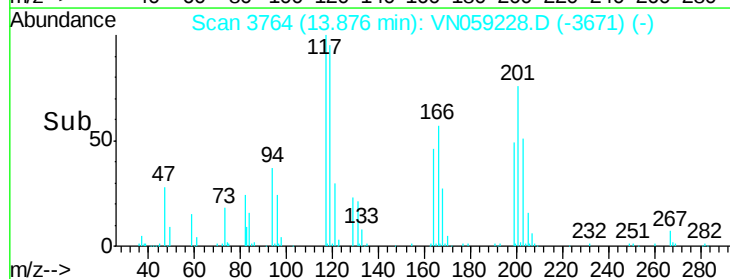
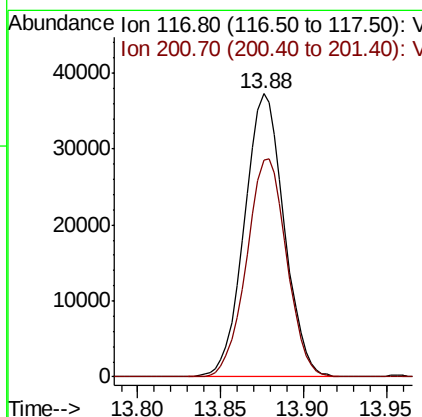
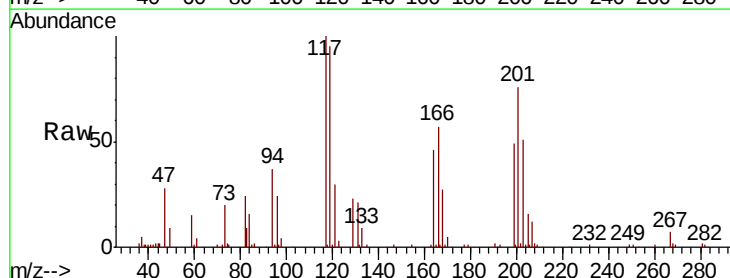
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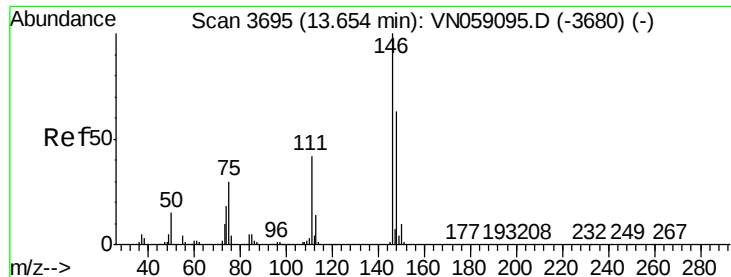
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#90
Hexachloroethane
Concen: 20.651 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
117	100		
201	77.5	41.8	125.3





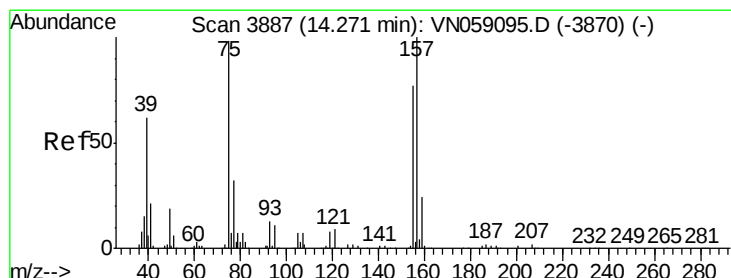
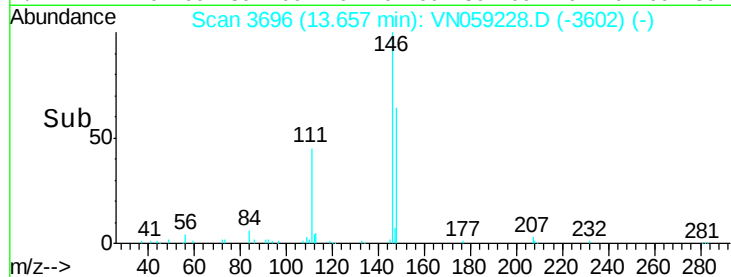
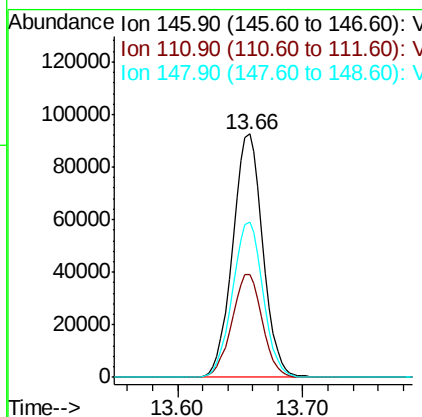
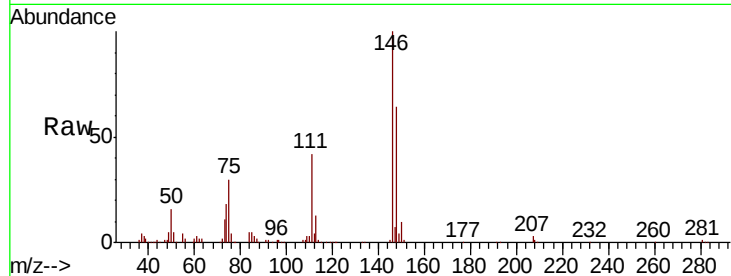
#91
 1,2-Dichlorobenzene
 Concen: 20.522 ug/l
 RT: 13.66 min Scan# 3696
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.2	63.6
148	64.9	31.6	94.7

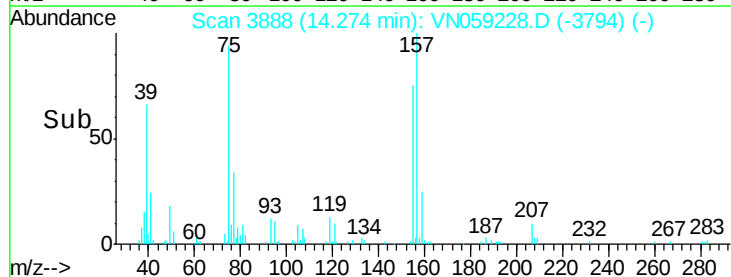
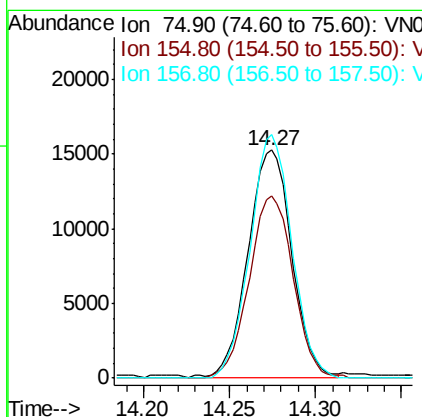
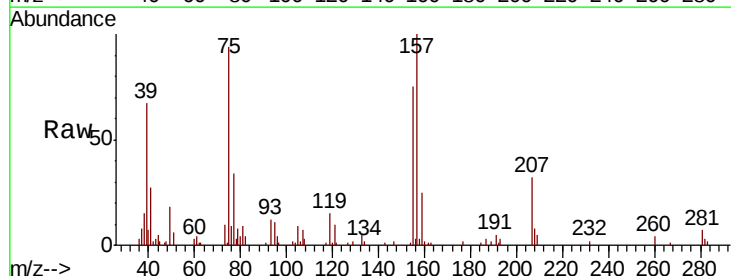
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.415 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	79.7	40.2	120.6
157	101.3	51.8	155.5





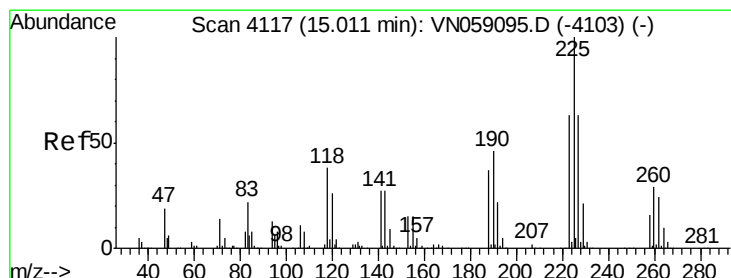
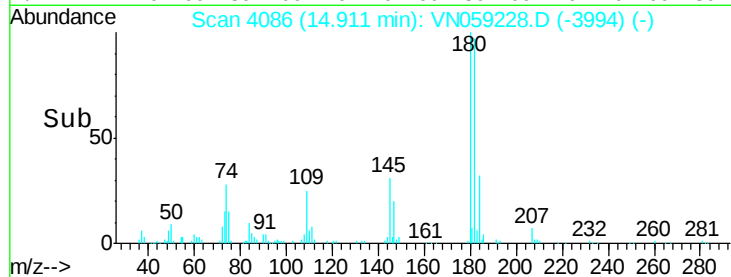
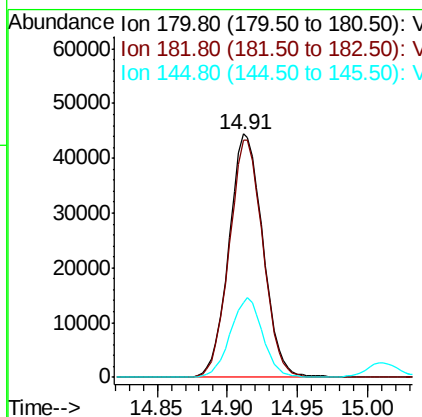
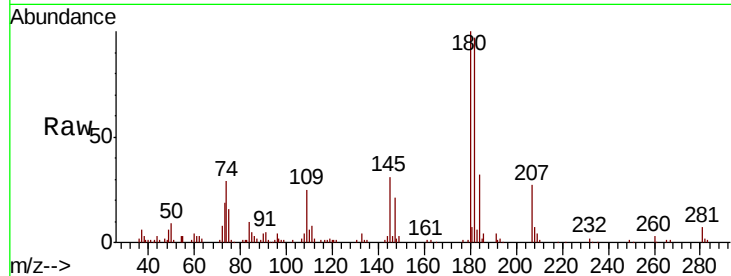
#93
 1,2,4-Trichlorobenzene
 Concen: 18.456 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1114MBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	74958		
182	96.1	48.1	144.3	
145	31.2	15.1	45.3	

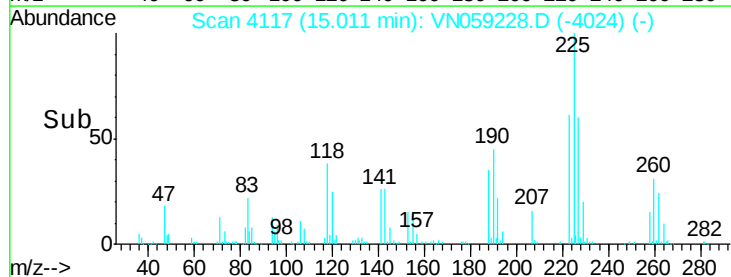
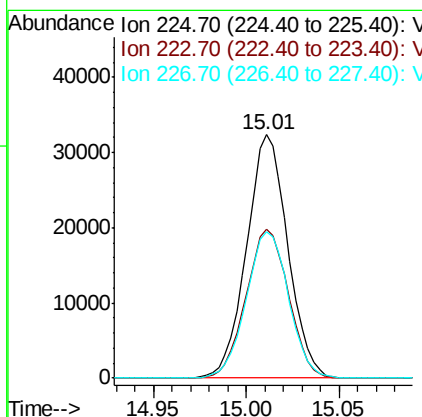
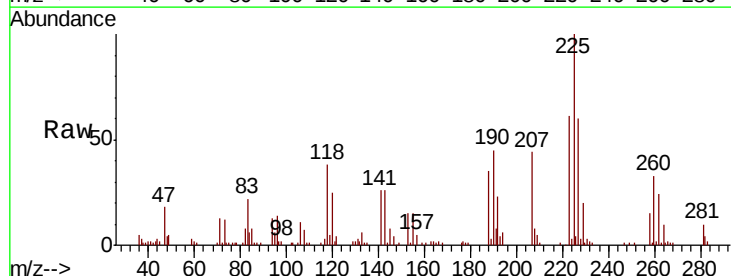
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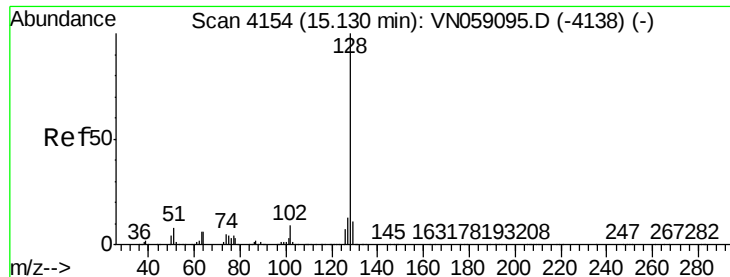
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#94
 Hexachlorobutadiene
 Concen: 19.342 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN059228.D
 Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	50213		
223	63.2	31.3	93.9	
227	61.9	31.5	94.5	





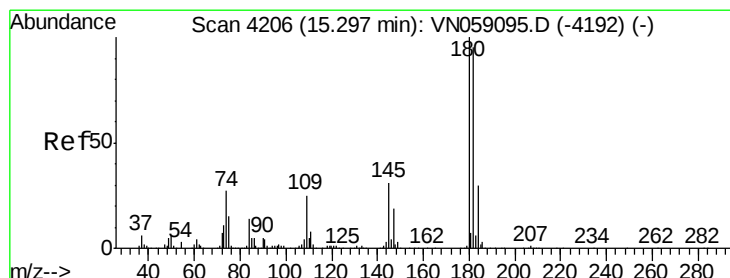
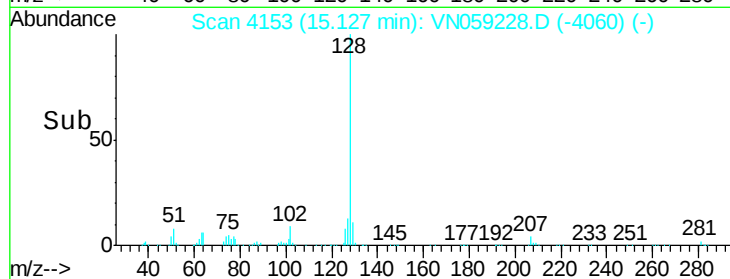
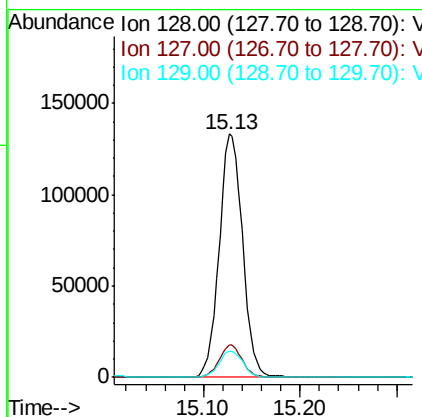
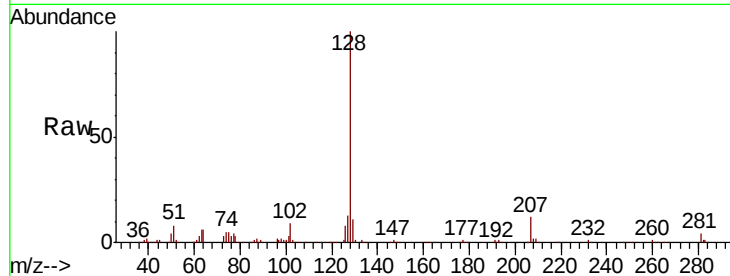
#95
Naphthalene
Concen: 19.606 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Instrument :
MSVOA_N
ClientSampleId :
VN1114MBS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	11.0	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
11/15/2019 10:21:58 AM



#96
1,2,3-Trichlorobenzene
Concen: 18.931 ug/l
RT: 15.30 min Scan# 4206
Delta R.T. -0.00 min
Lab File: VN059228.D
Acq: 14 Nov 2019 13:09

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	47.3	141.8
145	32.5	15.8	47.3

