

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032019\
 Data File : VN054457.D
 Acq On : 20 Mar 2019 10:47
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 3:16:04 PM

Quant Time: Mar 22 01:58:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 12:05:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	535803	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	818966	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	686848	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	271982	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	32742	5.75	ug/l	0.00
Spiked Amount			Recovery	=	11.50%	
35) Dibromofluoromethane	7.59	113	25961	4.91	ug/l	0.00
Spiked Amount			Recovery	=	9.82%	
50) Toluene-d8	10.09	98	97597	5.00	ug/l	0.00
Spiked Amount			Recovery	=	10.00%	
62) 4-Bromofluorobenzene	12.40	95	30966	4.54	ug/l	0.00
Spiked Amount			Recovery	=	9.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	23191	4.567	ug/l	98
3) Chloromethane	2.06	50	33526	6.797	ug/l	97
4) Vinyl Chloride	2.19	62	33290	5.905	ug/l	98
5) Bromomethane	2.57	94	22265	5.702	ug/l	91
6) Chloroethane	2.71	64	21239	6.226	ug/l	98
7) Trichlorofluoromethane	3.02	101	43122	5.753	ug/l	97
8) Diethyl Ether	3.41	74	15854	4.641	ug/l	78
9) 1,1,2-Trichlorotrifluoroet	3.75	101	25799	4.593	ug/l	97
10) Methyl Iodide	3.94	142	31737	4.295	ug/l	95
11) Tert butyl alcohol	4.81	59	8612m	22.077	ug/l	
12) 1,1-Dichloroethene	3.73	96	26277	4.721	ug/l	91
13) Acrolein	3.61	56	15357	41.545	ug/l	97
14) Allyl chloride	4.32	41	43745	6.125	ug/l #	94
15) Acrylonitrile	5.00	53	46237	28.855	ug/l	97
16) Acetone	3.82	43	46046	28.262	ug/l #	86
17) Carbon Disulfide	4.04	76	60542	4.339	ug/l	99
18) Methyl Acetate	4.33	43	20470	6.210	ug/l	92
19) Methyl tert-butyl Ether	5.05	73	72457	5.251	ug/l	97
20) Methylene Chloride	4.55	84	30597	5.719	ug/l	95
21) trans-1,2-Dichloroethene	5.04	96	25656	4.810	ug/l #	80
22) Diisopropyl ether	5.96	45	92422	6.484	ug/l #	93
23) Vinyl Acetate	5.90	43	301783	28.715	ug/l	95
24) 1,1-Dichloroethane	5.85	63	51399	5.616	ug/l	100
25) 2-Butanone	6.85	43	60107	31.433	ug/l	90
26) 2,2-Dichloropropane	6.83	77	33562	4.170	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	31467	5.289	ug/l	93
28) Bromochloromethane	7.19	49	24072	6.434	ug/l #	76
29) Tetrahydrofuran	7.22	42	40565	32.993	ug/l #	83
30) Chloroform	7.37	83	50083	5.244	ug/l	97
31) Cyclohexane	7.65	56	57925	5.880	ug/l #	88
32) 1,1,1-Trichloroethane	7.56	97	40645	4.712	ug/l	96
36) 1,1-Dichloropropene	7.79	75	35892	4.759	ug/l	97
37) Ethyl Acetate	6.93	43	26598	6.138	ug/l #	97
38) Carbon Tetrachloride	7.77	117	34932	4.417	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	43575	4.696	ug/l	94
40) Benzene	8.04	78	109353	5.067	ug/l	99
41) Methacrylonitrile	7.18	41	13420	5.424	ug/l	95
42) 1,2-Dichloroethane	8.13	62	40728	5.590	ug/l	99
43) Isopropyl Acetate	8.17	43	41105	5.404	ug/l #	93
44) Trichloroethene	8.83	130	29770	4.440	ug/l	94
45) 1,2-Dichloropropane	9.12	63	28260	5.273	ug/l	94
46) Dibromomethane	9.21	93	17313	4.781	ug/l	91
47) Bromodichloromethane	9.40	83	34973	4.818	ug/l	99
48) Methyl methacrylate	9.20	41	21674	5.615	ug/l	90
49) 1,4-Dioxane	9.21	88	5322	97.469	ug/l #	82
51) 4-Methyl-2-Pentanone	9.99	43	116647	28.978	ug/l	96
52) Toluene	10.16	92	65844	4.812	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	27151	3.675	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	37002	4.374	ug/l #	91
55) 1,1,2-Trichloroethane	10.56	97	23845	4.772	ug/l	94
56) Ethyl methacrylate	10.43	69	28963	4.861	ug/l #	84
57) 1,3-Dichloropropane	10.71	76	40650	4.975	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.70	63	58102	25.744	ug/l	92
59) 2-Hexanone	10.75	43	74433	27.789	ug/l	93
60) Dibromochloromethane	10.90	129	23310	4.145	ug/l	100
61) 1,2-Dibromoethane	11.00	107	22912	4.512	ug/l	95
64) Tetrachloroethene	10.63	164	30413	4.580	ug/l	95
65) Chlorobenzene	11.43	112	70958	4.705	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	24481	4.468	ug/l	96
67) Ethyl Benzene	11.51	91	124670	4.987	ug/l	95
68) m/p-Xylenes	11.62	106	96452	9.871	ug/l	98
69) o-Xylene	11.95	106	46222	4.853	ug/l	97
70) Styrene	11.96	104	71056	4.757	ug/l	97
71) Bromoform	12.13	173	12873	3.550	ug/l #	99
73) Isopropylbenzene	12.25	105	121565	5.587	ug/l	100
74) N-amyl acetate	12.07	43	29565	6.121	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.50	83	26263	5.665	ug/l	95
76) 1,2,3-Trichloropropane	12.55	75	21555m	5.389	ug/l	
77) Bromobenzene	12.53	156	29094	5.053	ug/l	89
78) n-propylbenzene	12.59	91	130321	5.519	ug/l	97
79) 2-Chlorotoluene	12.67	91	80879	5.697	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	97596	5.392	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	4422	3.779	ug/l #	61
82) 4-Chlorotoluene	12.77	91	75427	5.321	ug/l	98
83) tert-Butylbenzene	12.99	119	87972	5.280	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	94192	5.305	ug/l	98
85) sec-Butylbenzene	13.17	105	105040	4.862	ug/l	99
86) p-Isopropyltoluene	13.29	119	91055	4.804	ug/l	98
87) 1,3-Dichlorobenzene	13.28	146	45983	4.739	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	42979	4.509	ug/l	88
89) n-Butylbenzene	13.62	91	68208	4.736	ug/l	98
90) Hexachloroethane	13.88	117	13317	4.243	ug/l	84
91) 1,2-Dichlorobenzene	13.65	146	45016	4.746	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.27	75	3512	4.895	ug/l	76

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	16925	3.453	ug/l	99
94) Hexachlorobutadiene	15.01	225	15316	4.239	ug/l	96
95) Naphthalene	15.13	128	35917	3.562	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	18012	3.574	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 535803

Ion Ratio Lower Upper

168 100

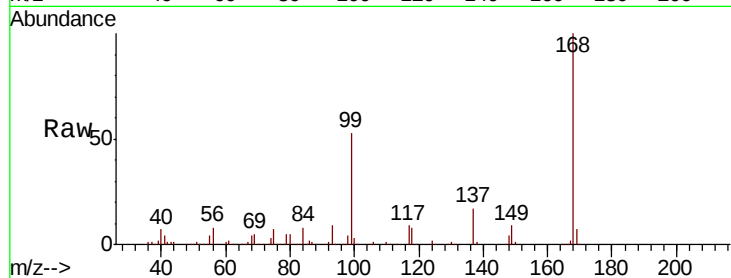
99 52.1 37.1 55.7

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

150000

100000

50000

0

7.50

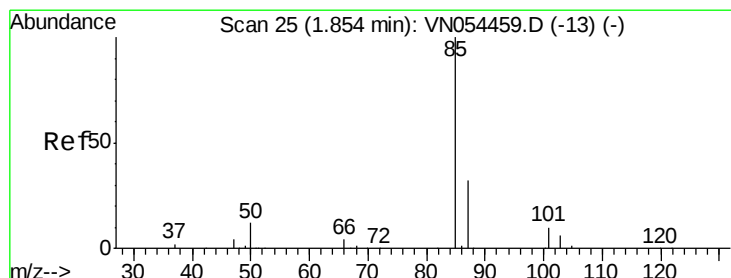
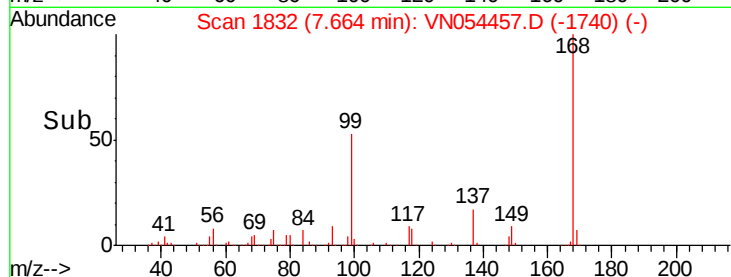
7.60

7.70

7.80

7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 4.567 ug/l

RT: 1.85 min Scan# 25

Delta R.T. -0.00 min

Lab File: VN054457.D

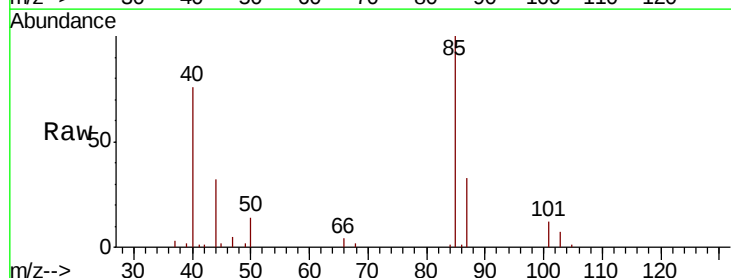
Acq: 20 Mar 2019 10:47

Tgt Ion: 85 Resp: 23191

Ion Ratio Lower Upper

85 100

87 32.9 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

15000

10000

5000

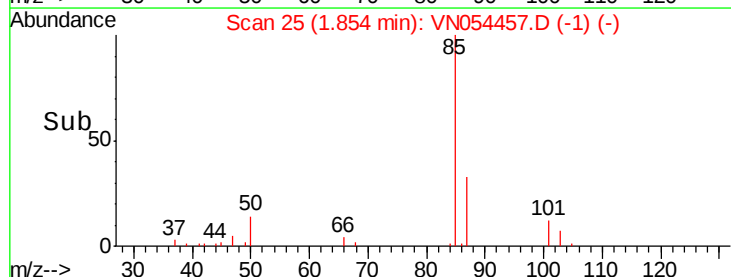
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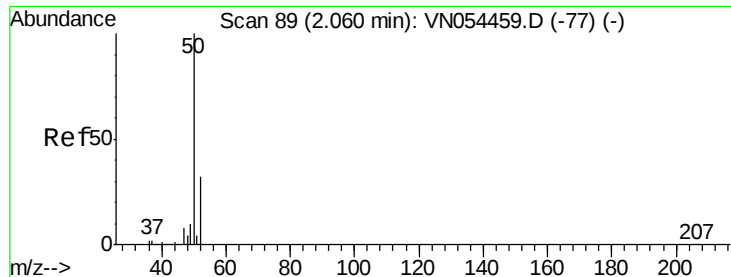
1.80

1.85

1.90

Time-->





#3

Chloromethane

Concen: 6.797 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 33526

Ion Ratio Lower Upper

50 100

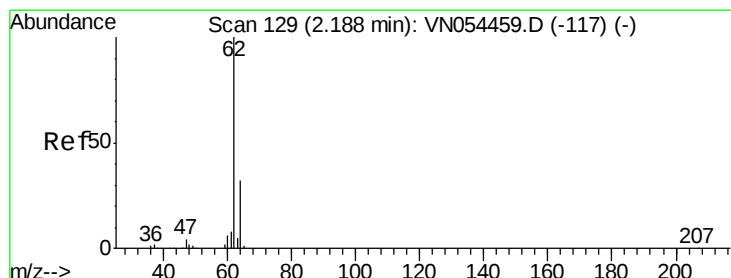
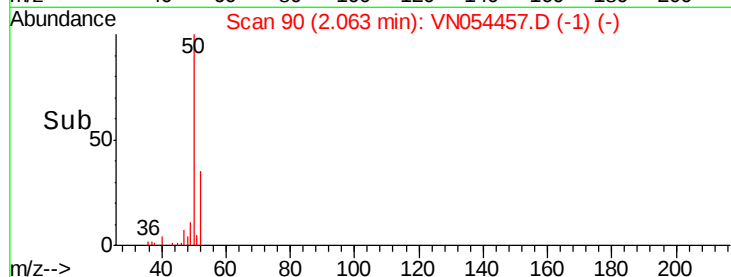
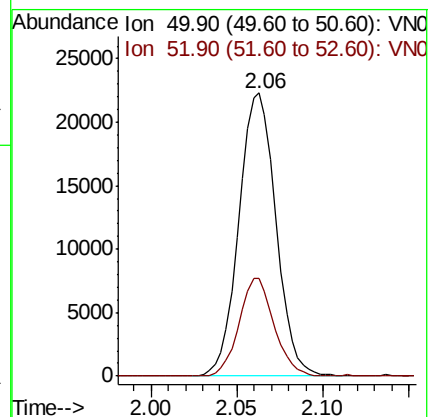
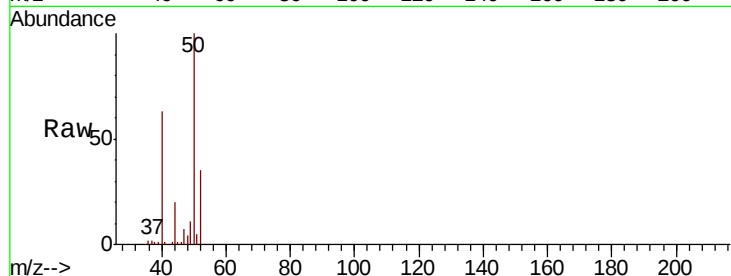
52 34.8 26.4 39.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 5.905 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054457.D

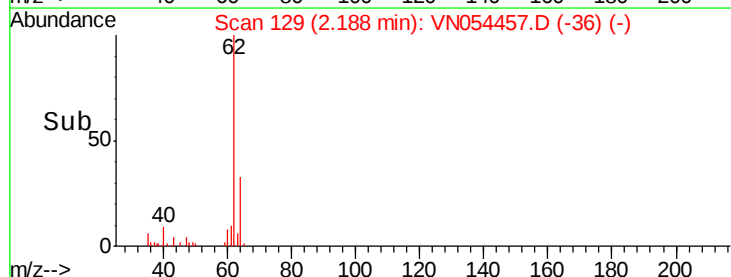
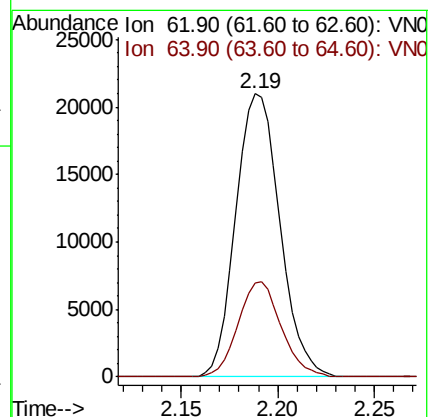
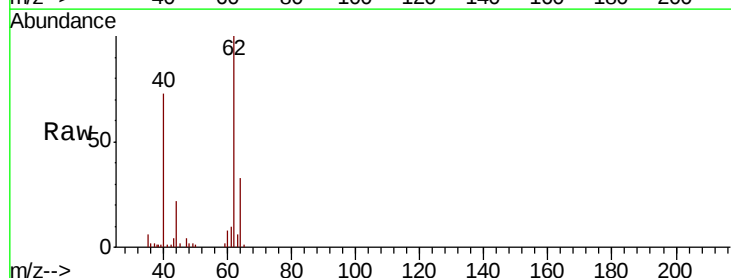
Acq: 20 Mar 2019 10:47

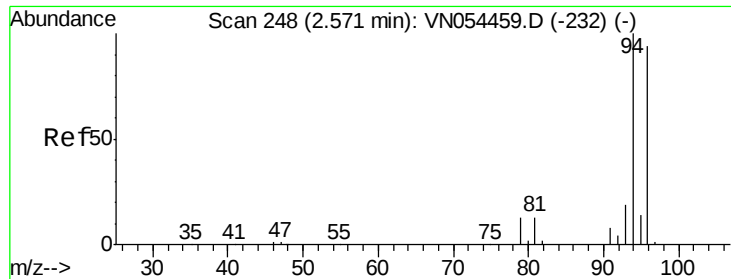
Tgt Ion: 62 Resp: 33290

Ion Ratio Lower Upper

62 100

64 33.3 25.5 38.3





#5

Bromomethane

Concen: 5.702 ug/l

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 94 Resp: 22265

Ion Ratio Lower Upper

94 100

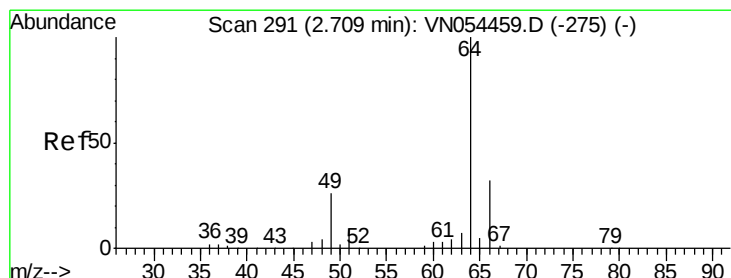
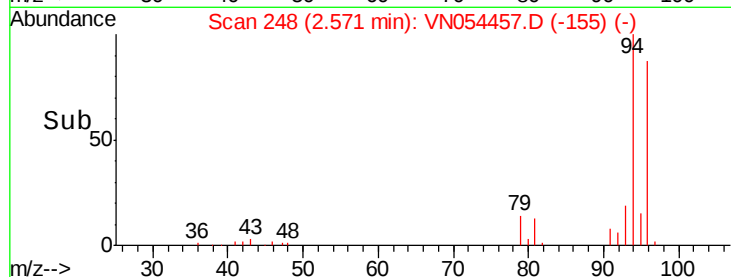
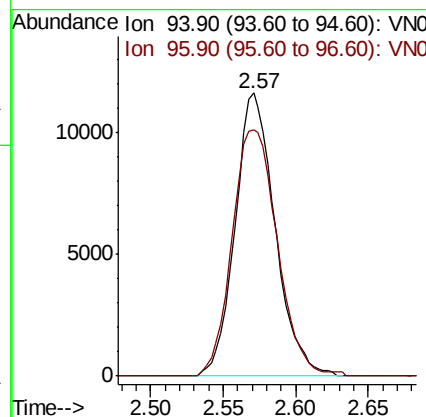
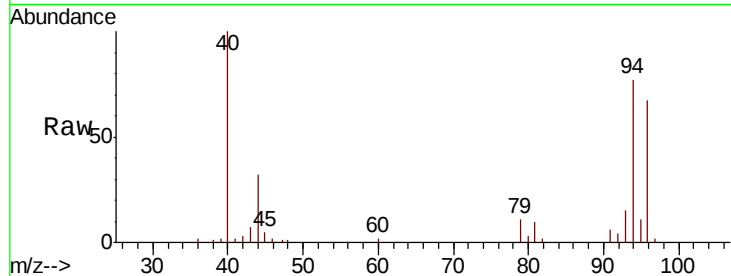
96 87.2 77.0 115.4

Manual Integrations

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#6

Chloroethane

Concen: 6.226 ug/l

RT: 2.71 min Scan# 291

Delta R.T. -0.00 min

Lab File: VN054457.D

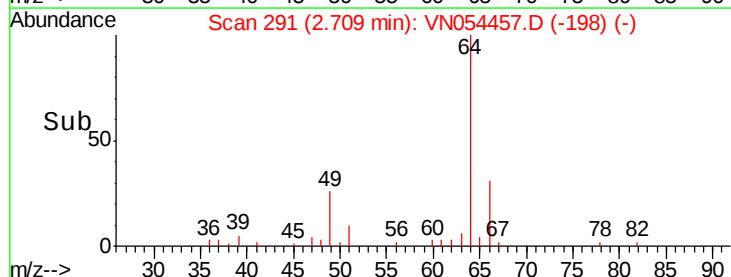
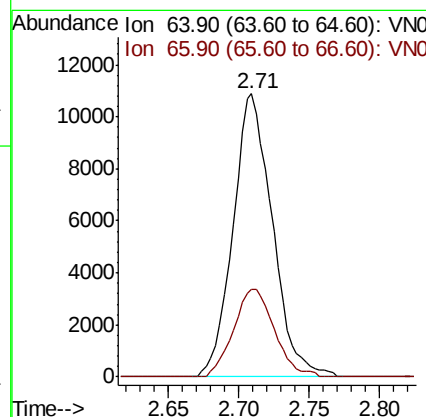
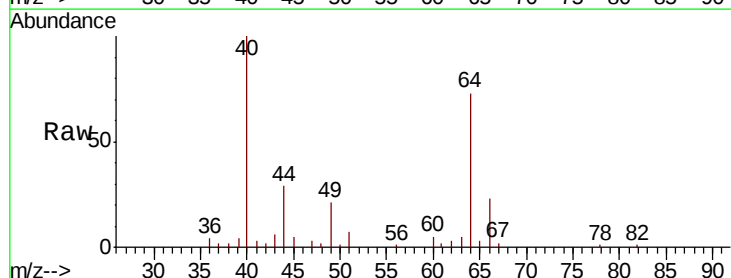
Acq: 20 Mar 2019 10:47

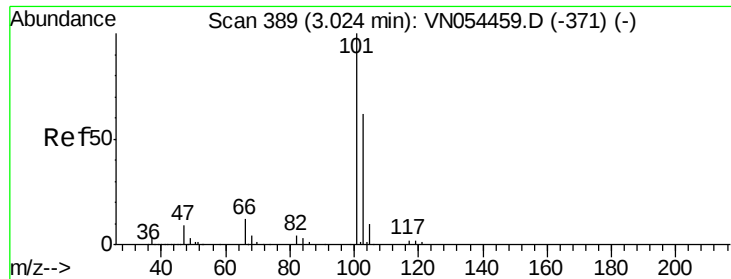
Tgt Ion: 64 Resp: 21239

Ion Ratio Lower Upper

64 100

66 31.1 25.7 38.5





#7

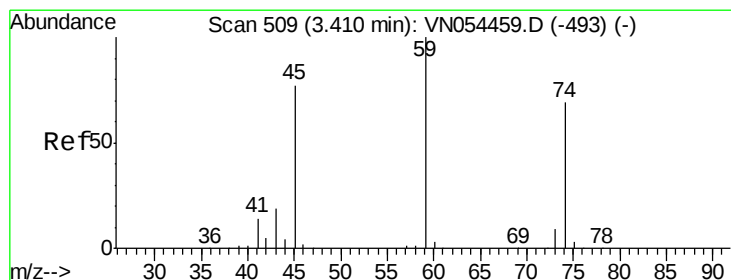
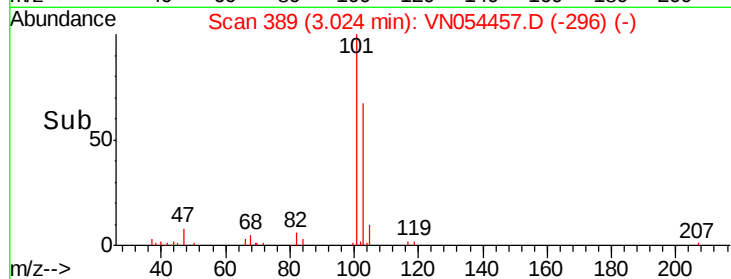
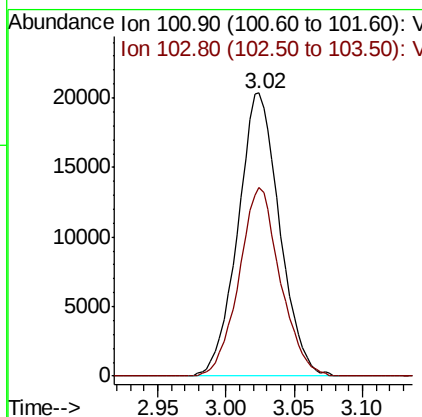
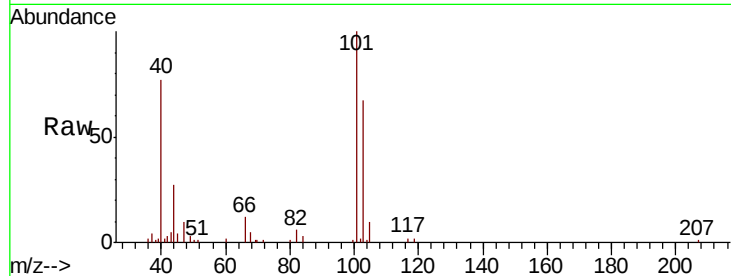
Trichlorofluoromethane
 Concen: 5.753 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Instrument :
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 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.6	51.4	77.2

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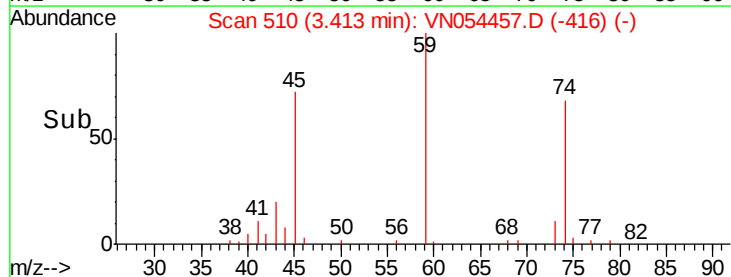
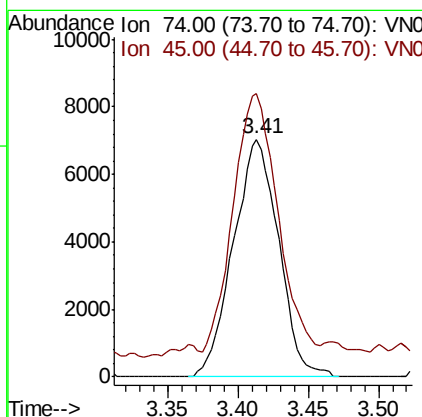
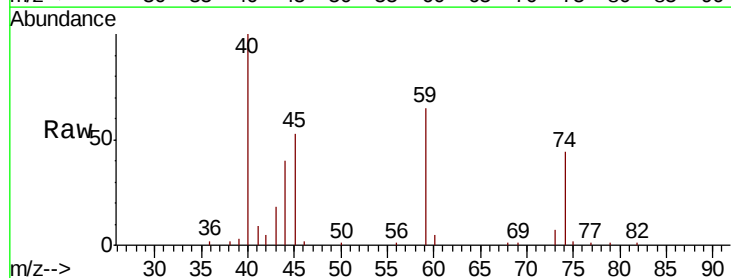
MMDadoda
 3/22/2019 3:16:04 PM

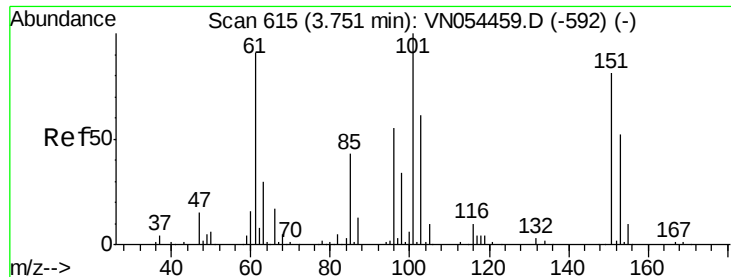


#8

Diethyl Ether
 Concen: 4.641 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
74	100		
45	106.3	43.1	129.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.593 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

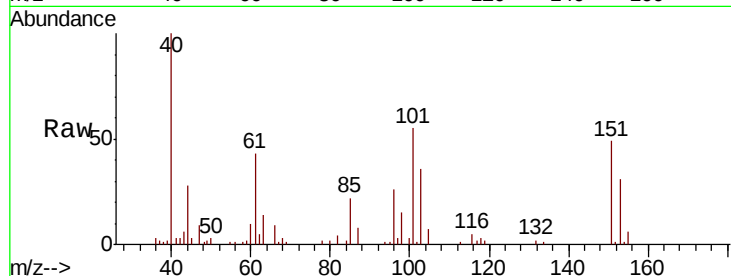
ClientSampleId :

VSTDIC005

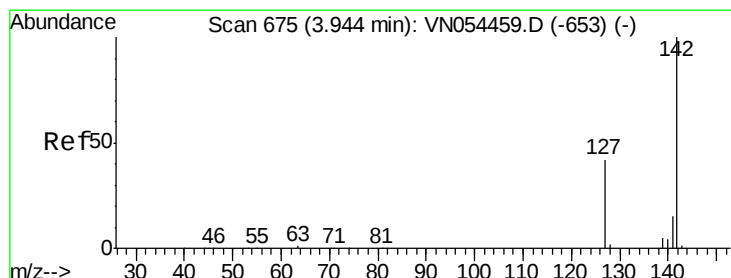
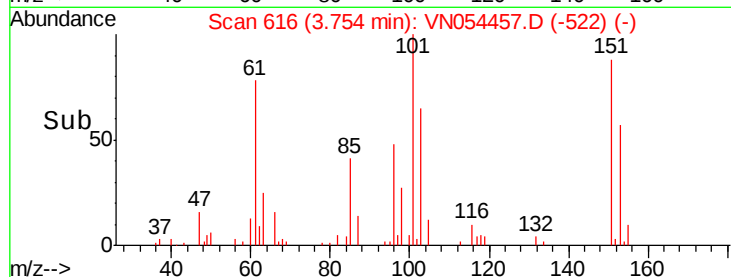
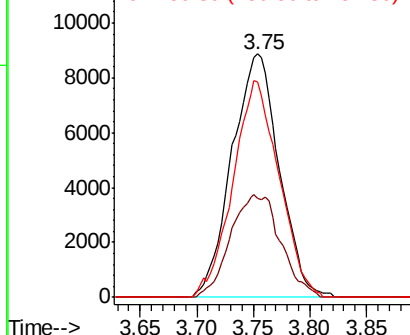
Tot Ion:	101	Resp:	25799
Ion	Ratio	Lower	Upper
101	100		
85	44.6	32.4	48.6
151	86.6	68.2	102.2

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



#10

Methyl Iodide

Concen: 4.295 ug/l

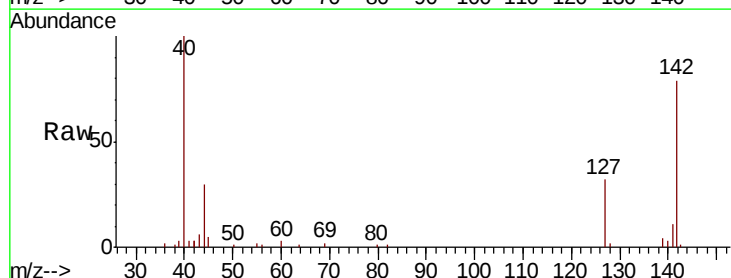
RT: 3.94 min Scan# 675

Delta R.T. -0.00 min

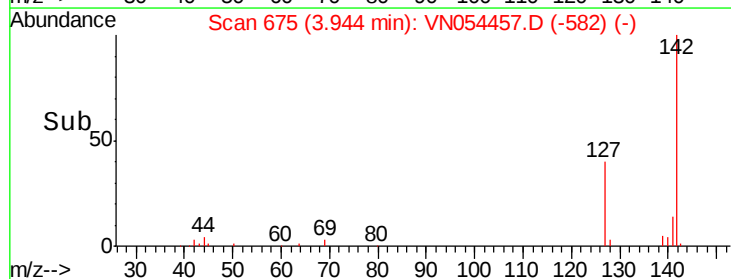
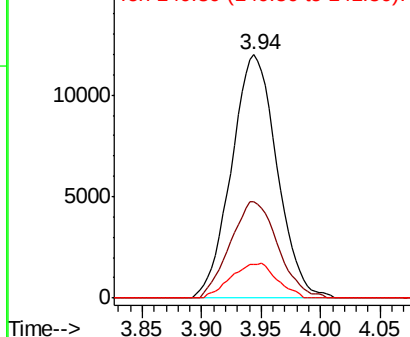
Lab File: VN054457.D

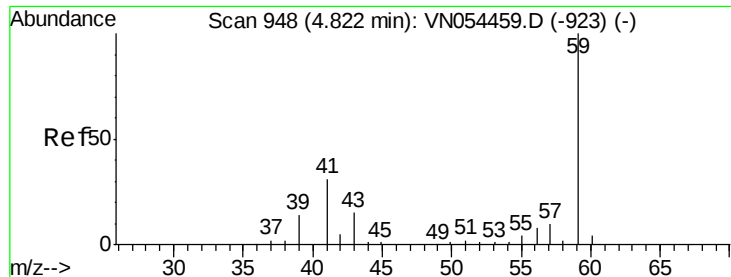
Acq: 20 Mar 2019 10:47

Tgt Ion:	142	Resp:	31737
Ion	Ratio	Lower	Upper
142	100		
127	41.6	30.3	45.5
141	14.5	11.2	16.8



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





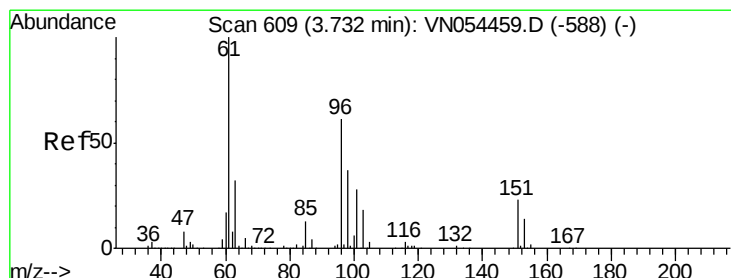
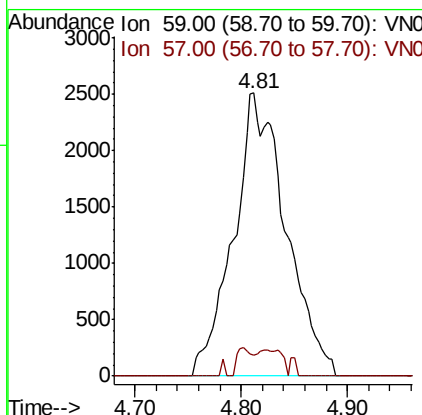
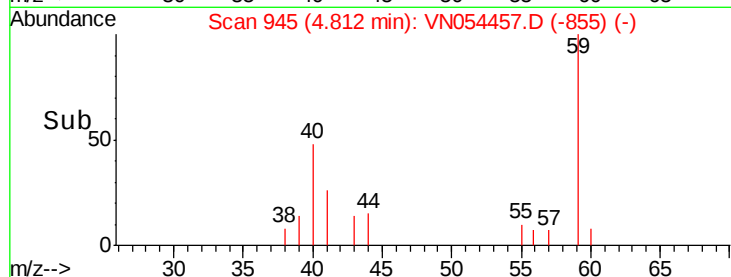
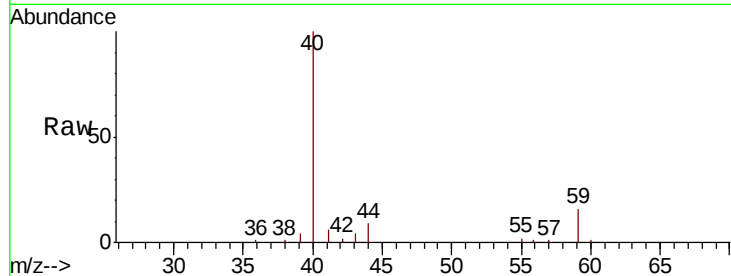
#11
Tert butyl alcohol
Concen: 22.077 ug/l m
RT: 4.81 min Scan# 945
Delta R.T. -0.01 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	0.0	9.0	13.6#

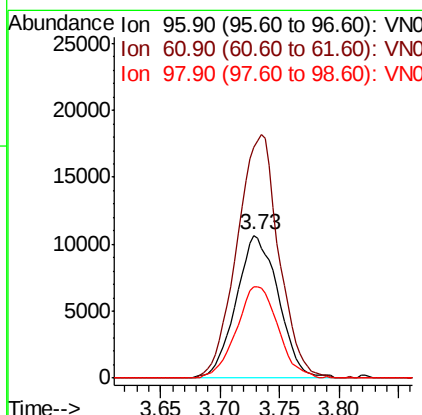
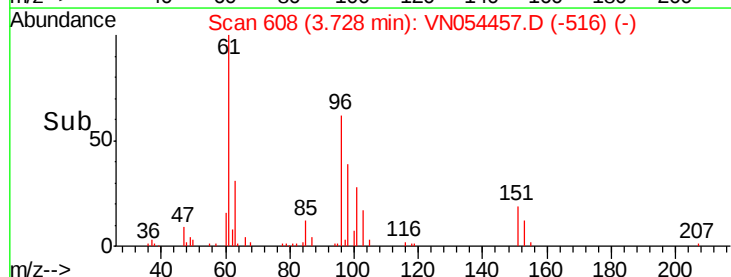
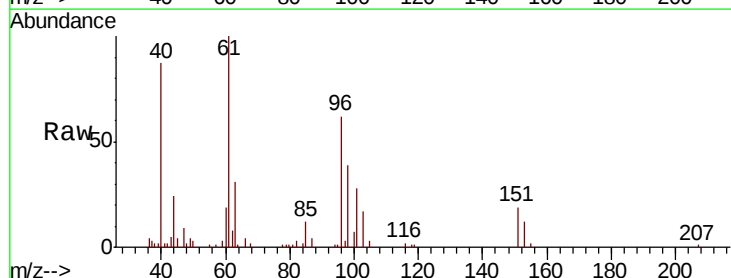
Manual Integrations
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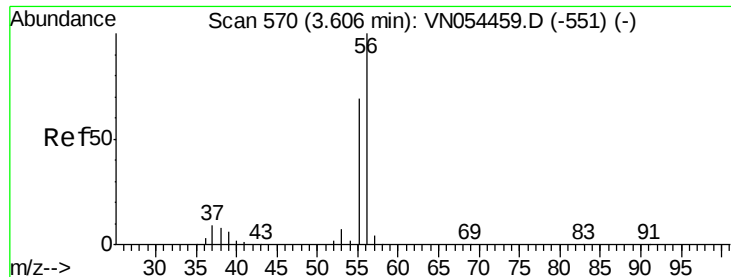
MMDadoda
3/22/2019 3:16:04 PM



#12
1,1-Dichloroethene
Concen: 4.721 ug/l
RT: 3.73 min Scan# 608
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	162.2	116.5	174.7
98	63.8	51.0	76.4





#13

Acrolein

Concen: 41.545 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 15357

Ion Ratio Lower Upper

56 100

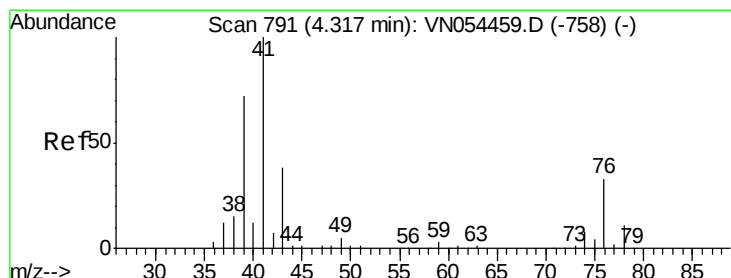
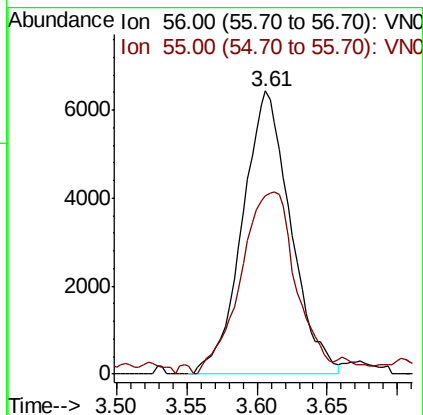
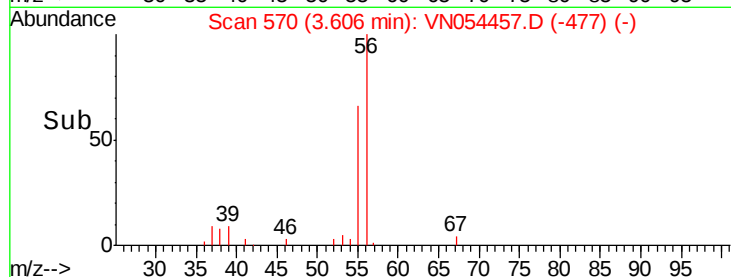
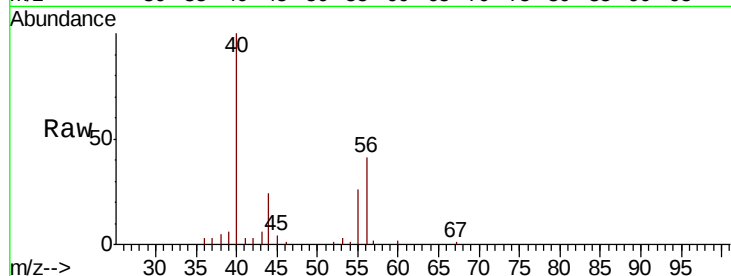
55 73.5 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 6.125 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

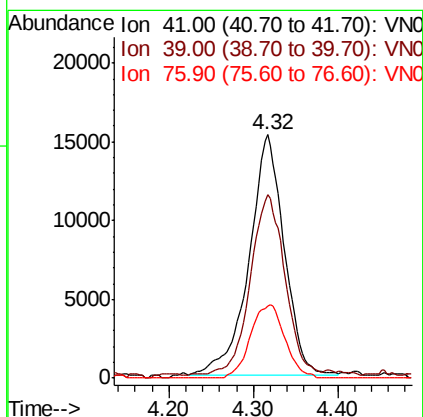
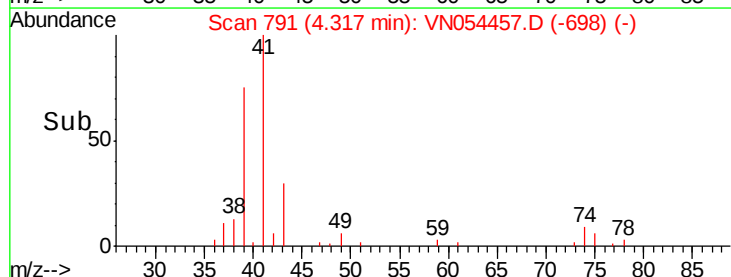
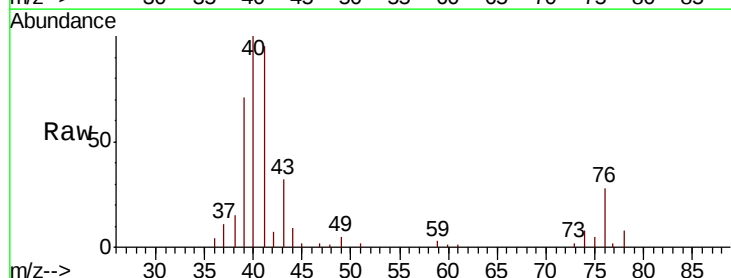
Tgt Ion: 41 Resp: 43745

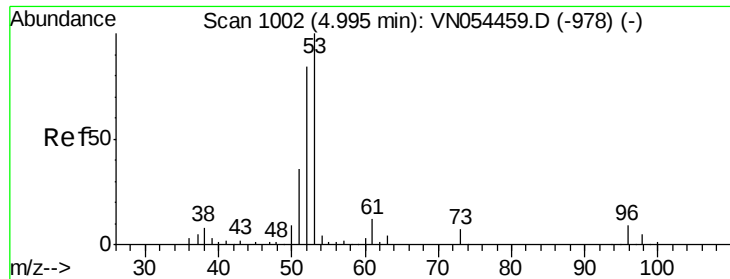
Ion Ratio Lower Upper

41 100

39 73.0 58.2 87.4

76 30.2 31.7 47.5#





#15

Acrylonitrile

Concen: 28.855 ug/l

RT: 5.00 min Scan# 1004

Delta R.T. 0.01 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

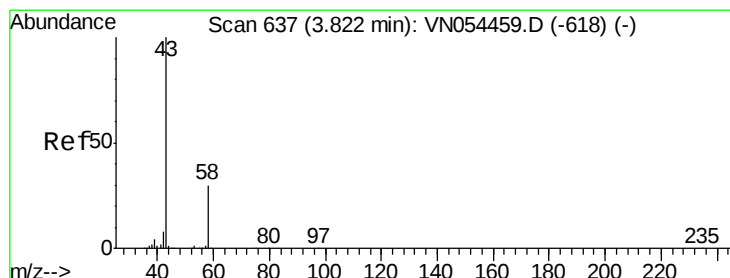
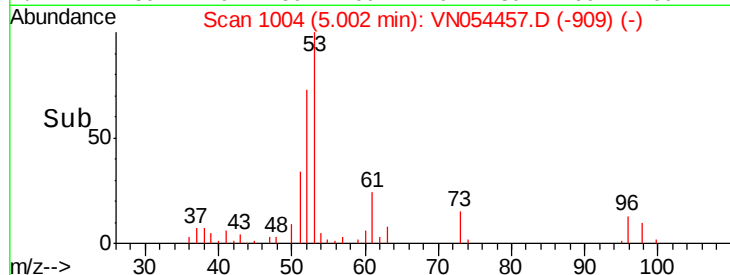
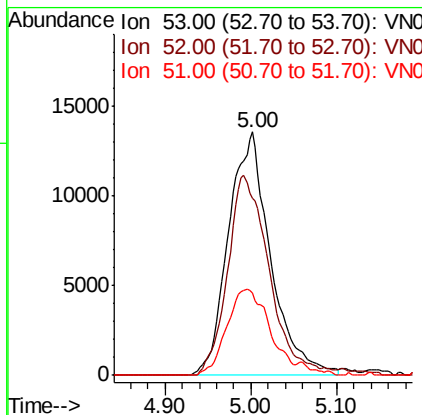
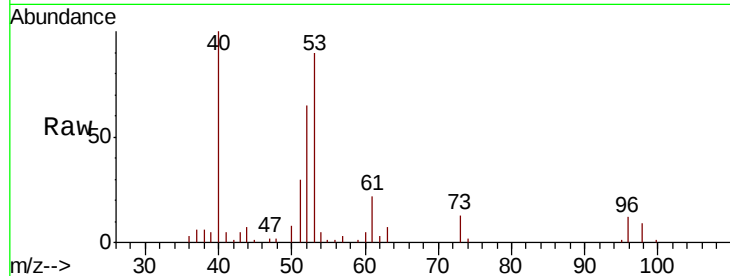
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	46237
Ion	Ratio	Lower	Upper
53	100		
52	80.2	66.4	99.6
51	35.5	29.6	44.4

Manual Integrations
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#16

Acetone

Concen: 28.262 ug/l

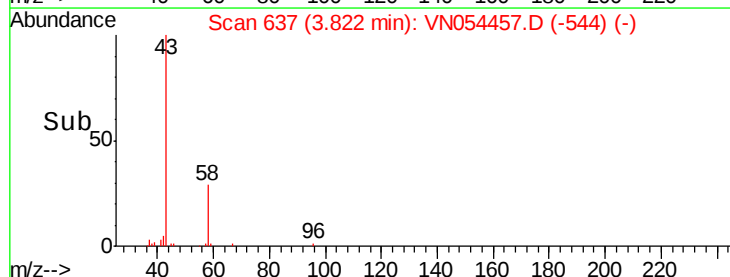
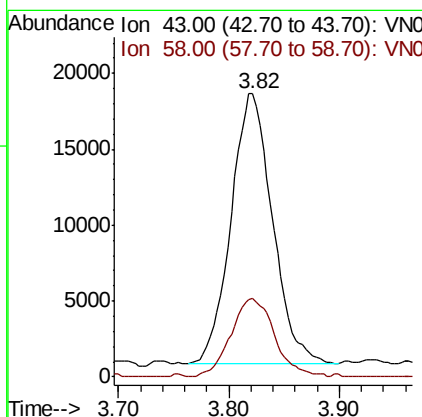
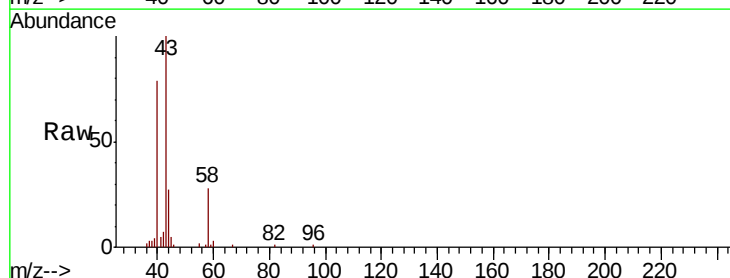
RT: 3.82 min Scan# 637

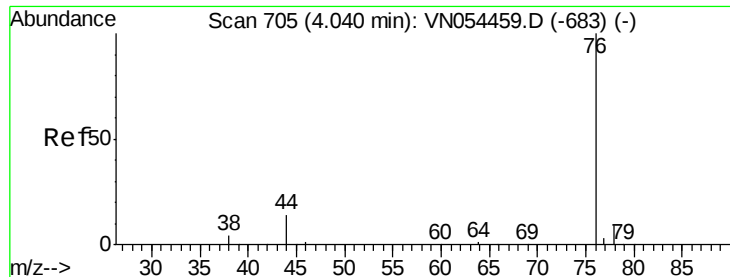
Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Tgt Ion:	43	Resp:	46046
Ion	Ratio	Lower	Upper
43	100		
58	29.2	29.9	44.9#





#17

Carbon Disulfide

Concen: 4.339 ug/l

RT: 4.04 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 76 Resp: 60542

Ion Ratio Lower Upper

76 100

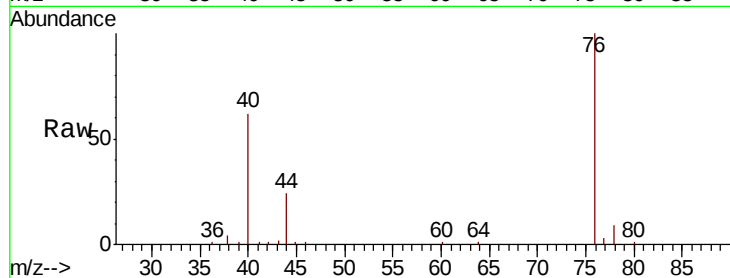
78 9.2 7.5 11.3

Manual Integrations

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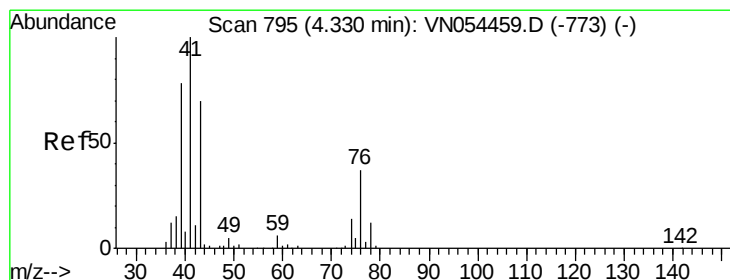
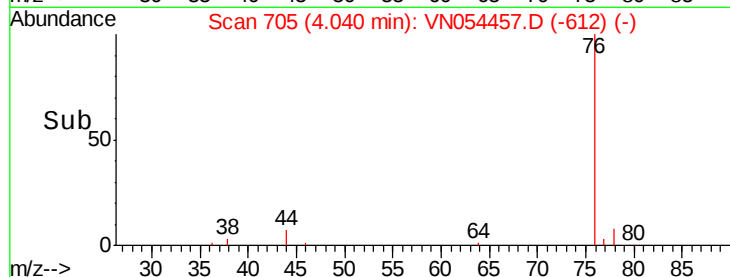
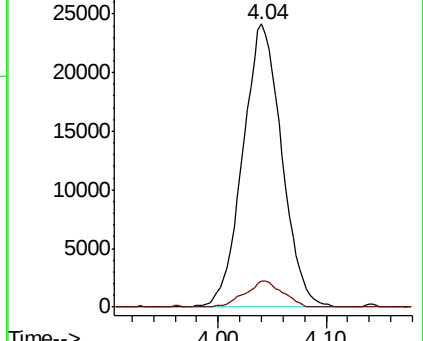
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 6.210 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054457.D

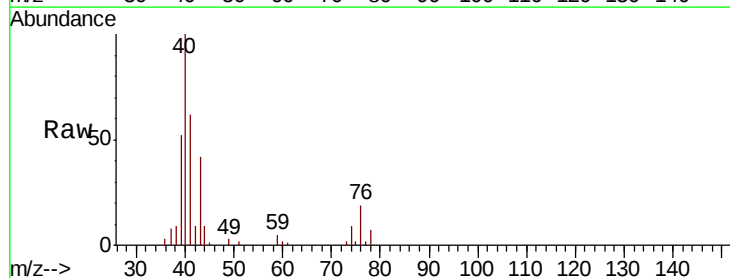
Acq: 20 Mar 2019 10:47

Tgt Ion: 43 Resp: 20470

Ion Ratio Lower Upper

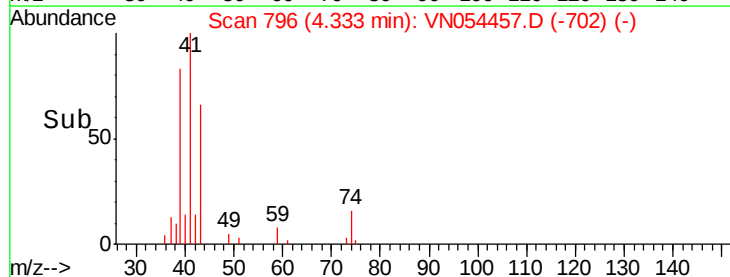
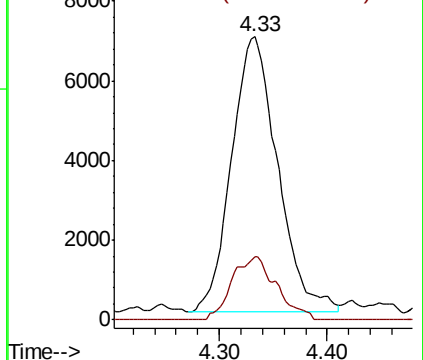
43 100

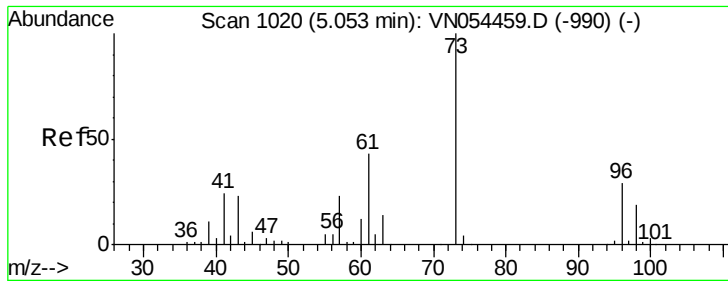
74 22.2 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





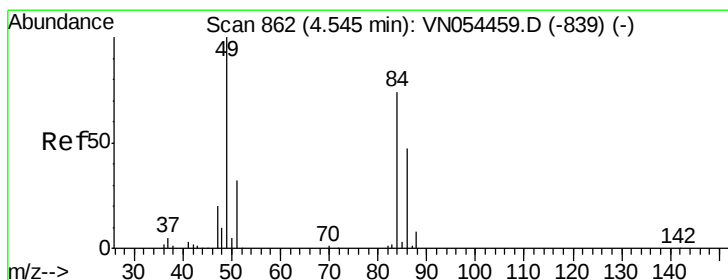
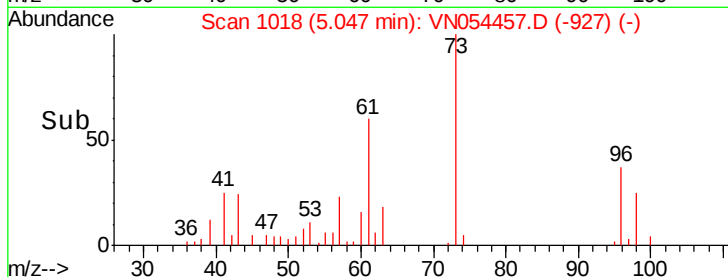
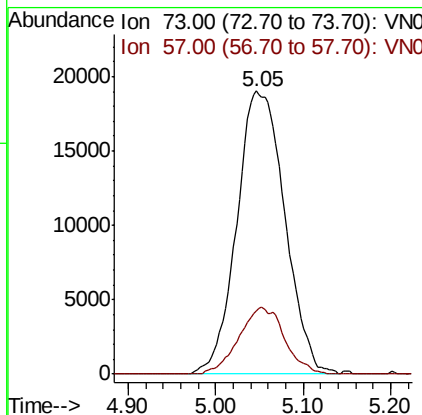
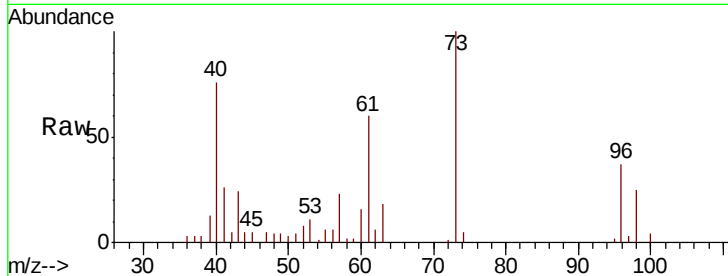
#19
Methvl tert-butvl Ether
Concen: 5.251 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.01 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 72457
Ion Ratio Lower Upper
73 100
57 22.5 16.8 25.2

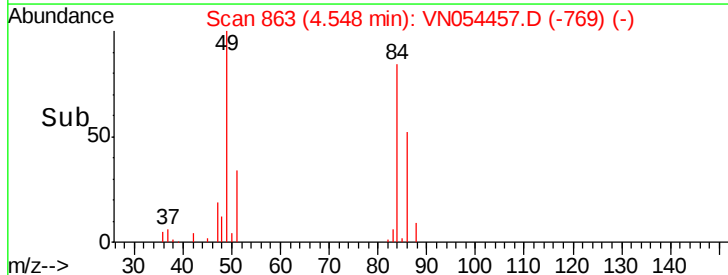
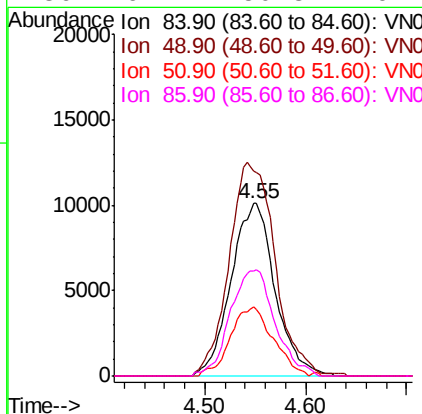
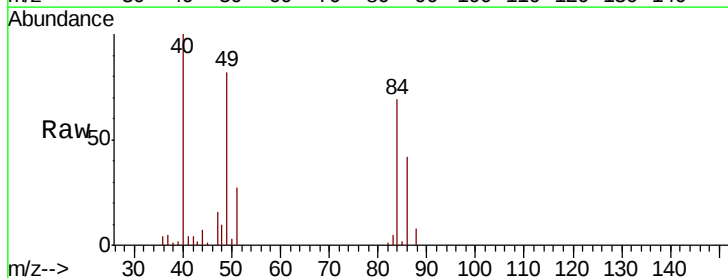
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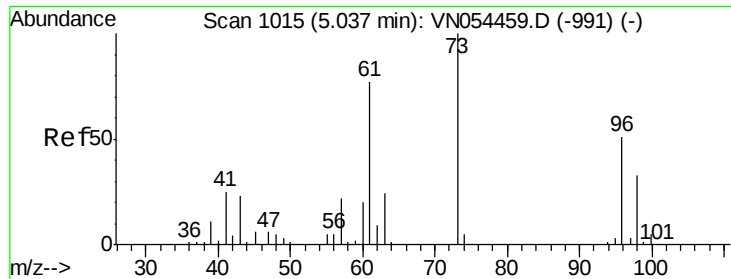
MMDadoda
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#20
Methylene Chloride
Concen: 5.719 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion: 84 Resp: 30597
Ion Ratio Lower Upper
84 100
49 118.4 89.7 134.5
51 39.9 28.2 42.4
86 61.2 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 4.810 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 25656

Ion Ratio Lower Upper

96 100

61 160.2 102.8 154.2#

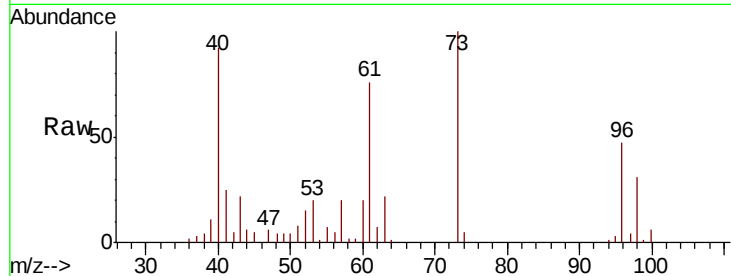
98 65.9 50.0 75.0

Manual Integrations

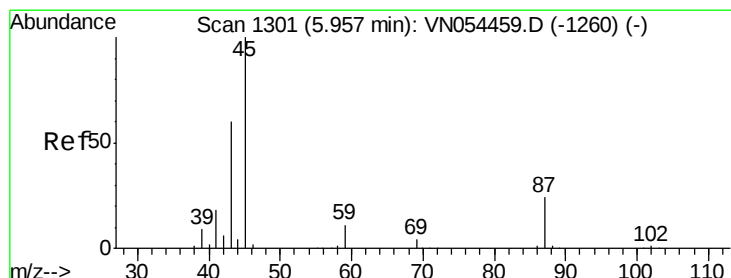
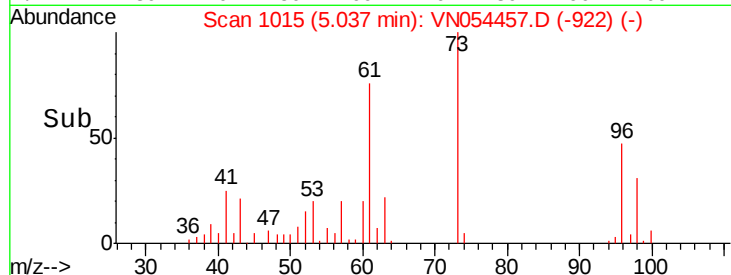
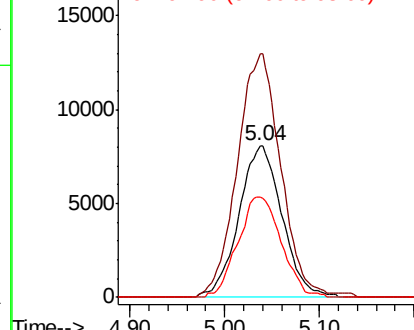
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Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#22

Diisopropyl ether

Concen: 6.484 ug/l

RT: 5.96 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Tgt Ion: 45 Resp: 92422

Ion Ratio Lower Upper

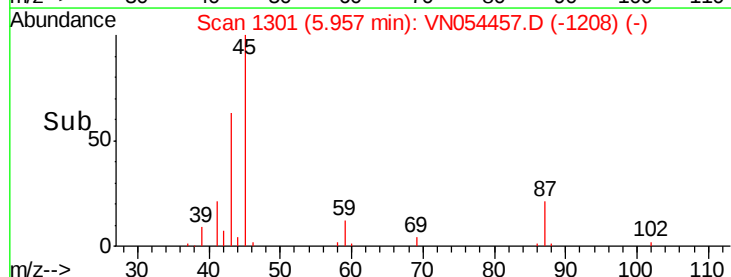
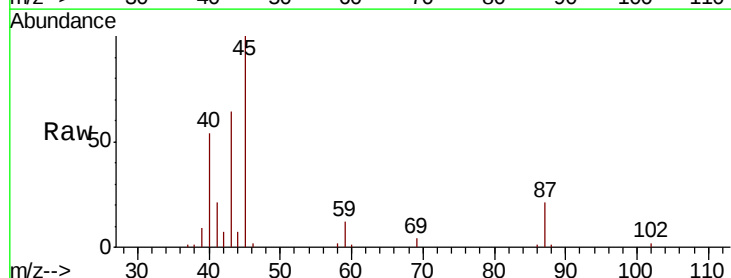
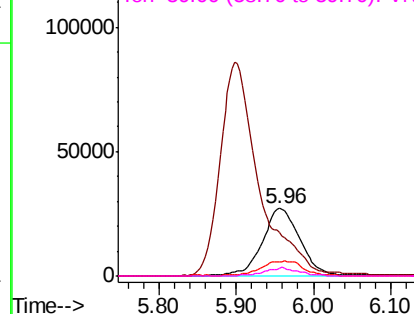
45 100

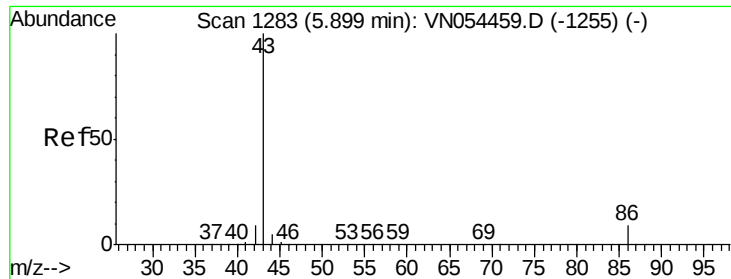
43 61.8 48.2 72.2

87 20.5 24.9 37.3#

59 11.8 9.5 14.3

Abundance Ion 45.00 (44.70 to 45.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 87.00 (86.70 to 87.70): VNO
Ion 59.00 (58.70 to 59.70): VNO





#23

Vinyl Acetate

Concen: 28.715 ug/l

RT: 5.90 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampleID :

VSTDIC005

Tot Ion: 43 Resp: 301783

Ion Ratio Lower Upper

43 100

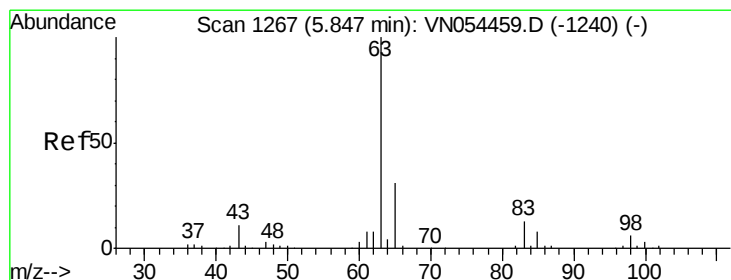
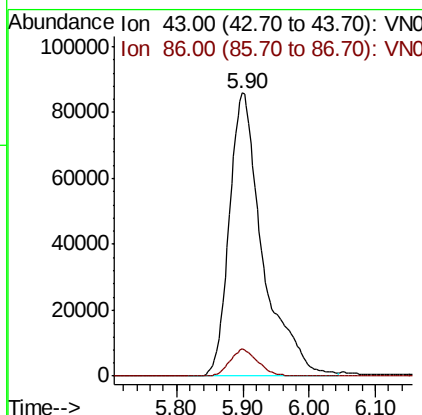
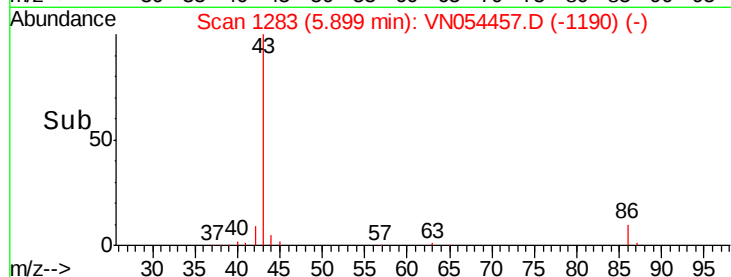
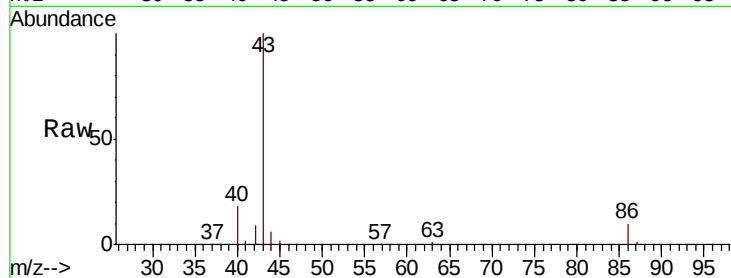
86 9.7 9.1 13.7

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 5.616 ug/l

RT: 5.85 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

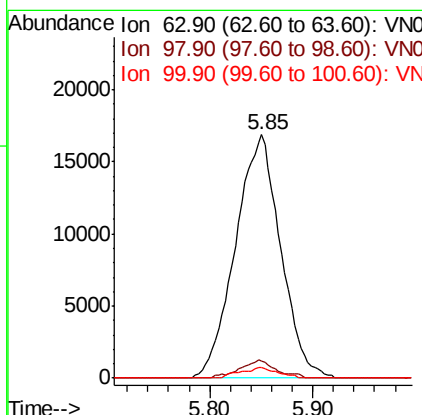
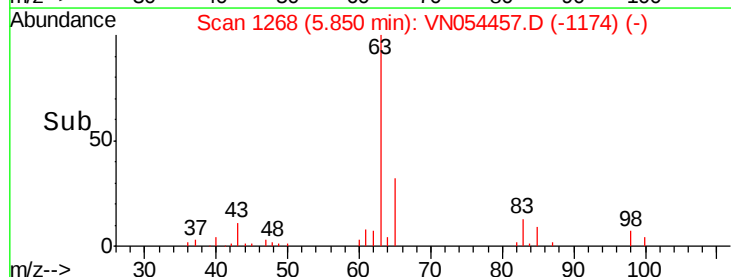
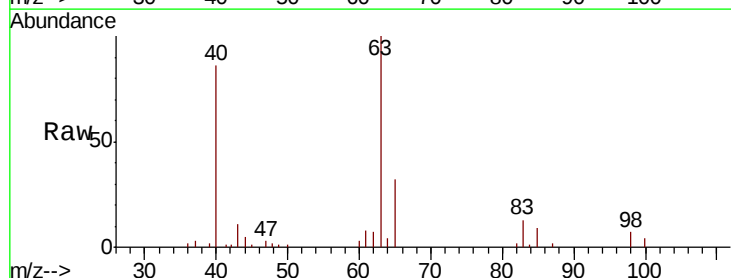
Tgt Ion: 63 Resp: 51399

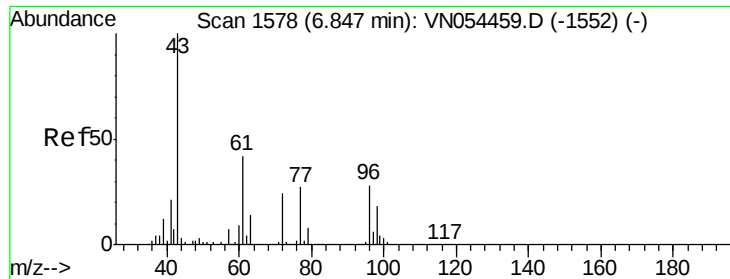
Ion Ratio Lower Upper

63 100

98 7.2 3.5 10.5

100 4.1 2.0 6.0





#25

2-Butanone

Concen: 31.433 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 60107

Ion Ratio Lower Upper

43 100

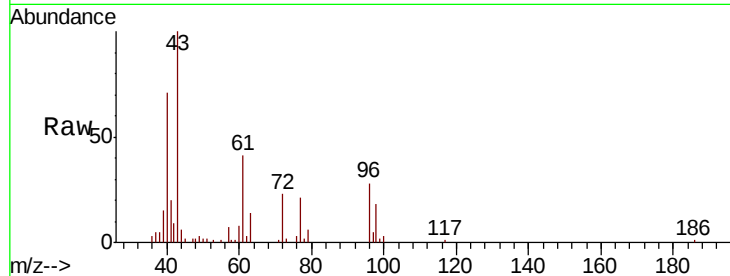
72 23.3 23.0 34.6

Manual Integrations

APPROVED

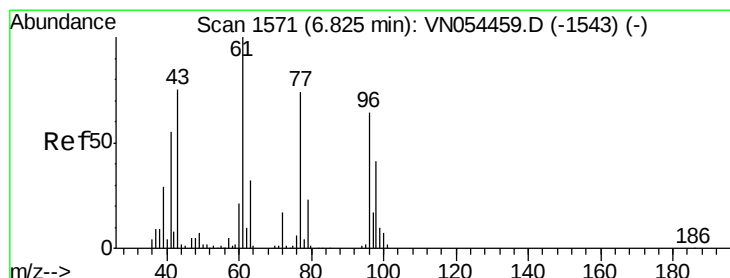
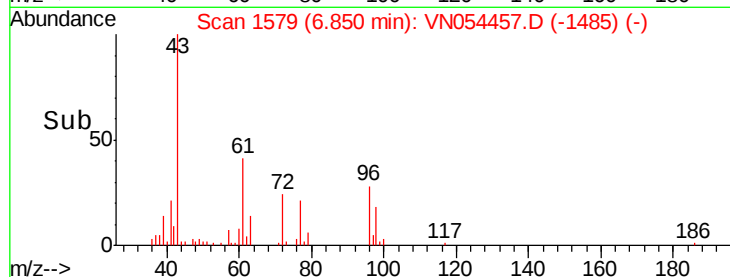
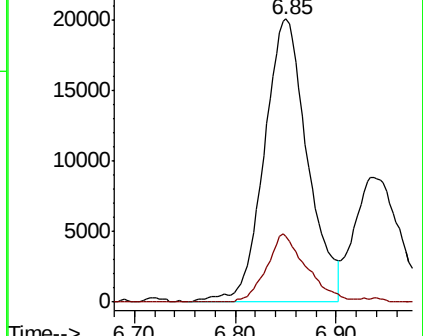
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#26

2,2-Dichloropropane

Concen: 4.170 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.00 min

Lab File: VN054457.D

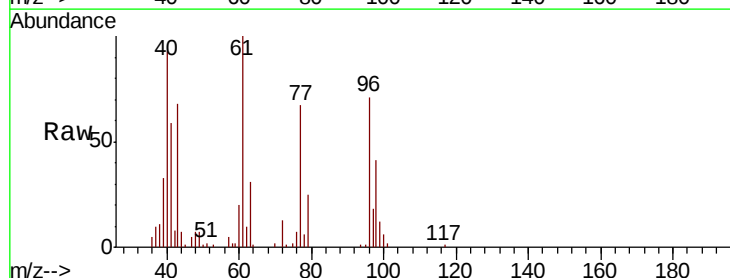
Acq: 20 Mar 2019 10:47

Tgt Ion: 77 Resp: 33562

Ion Ratio Lower Upper

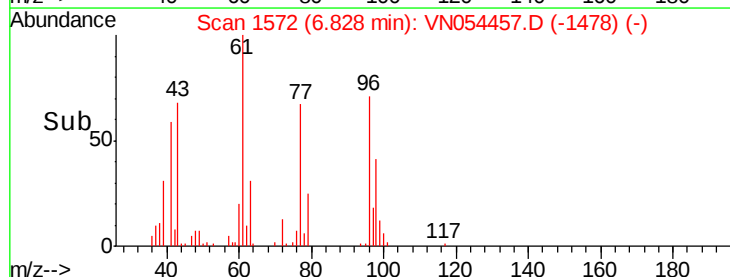
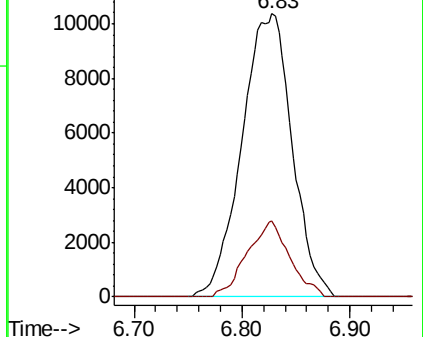
77 100

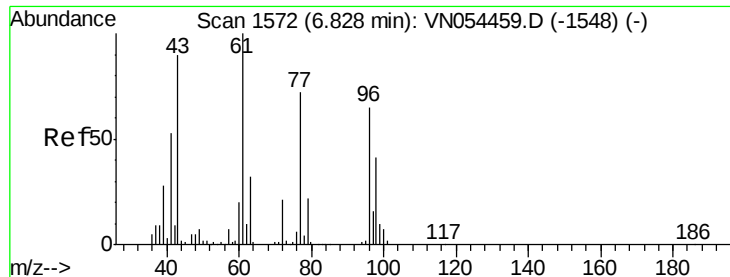
97 22.7 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 5.289 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

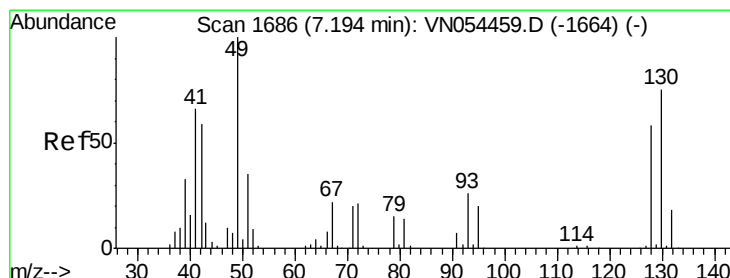
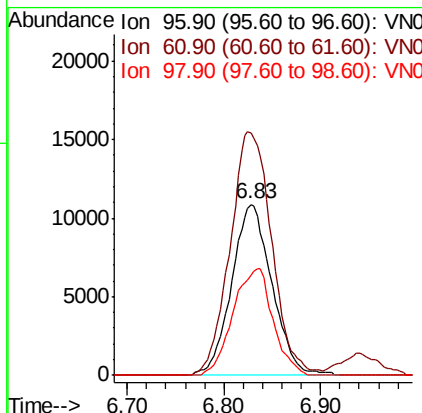
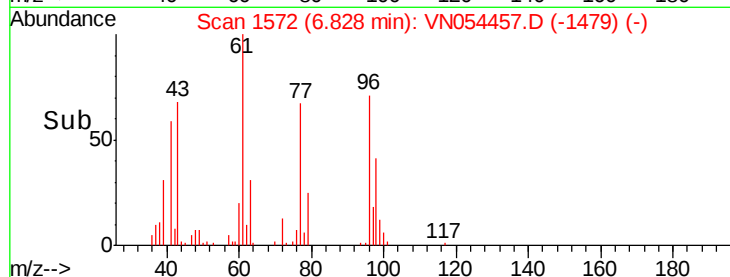
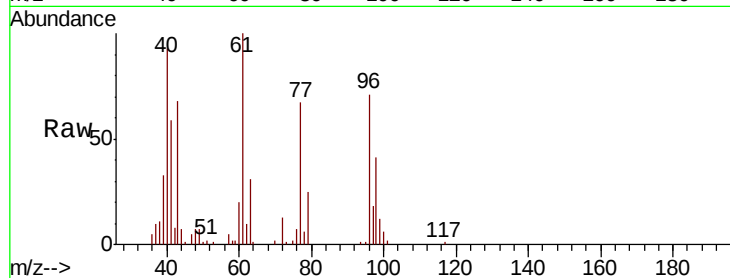
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	31467
Ion	Ratio	Lower	Upper
96	100		
61	146.6	0.0	273.0
98	61.6	0.0	130.6

Manual Integrations
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#28

Bromochloromethane

Concen: 6.434 ug/l

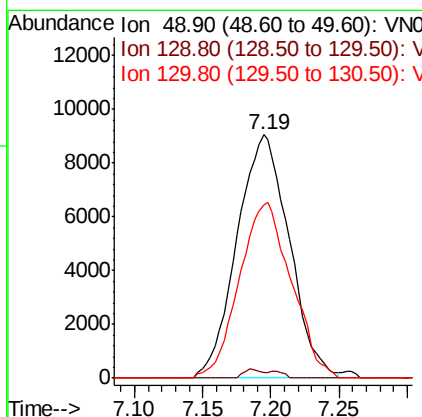
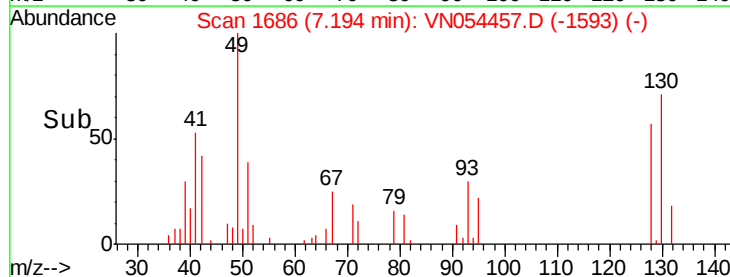
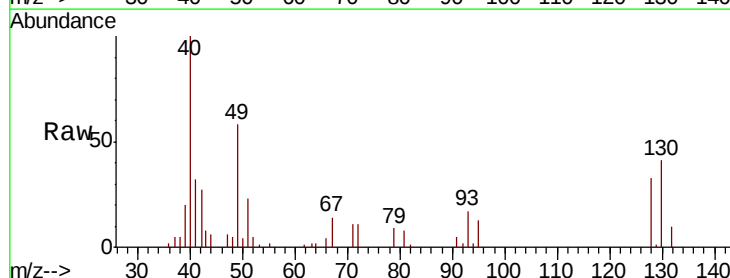
RT: 7.19 min Scan# 1686

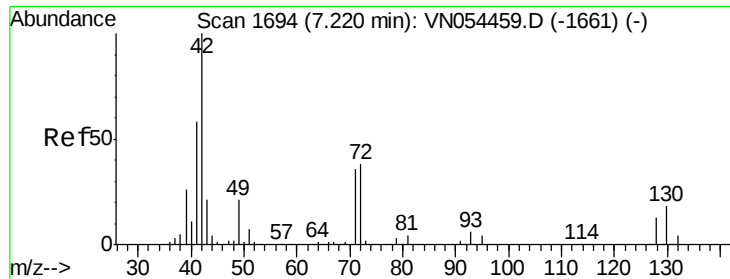
Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Tgt Ion:	49	Resp:	24072
Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	4.6
130	71.9	76.7	115.1#





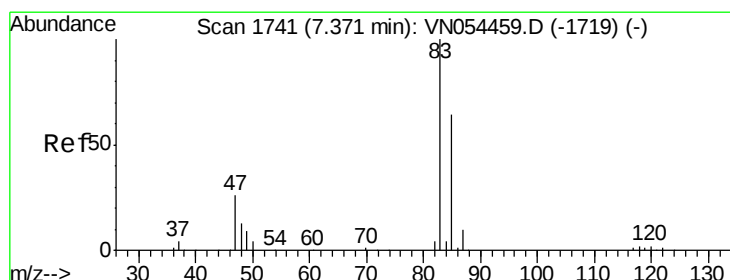
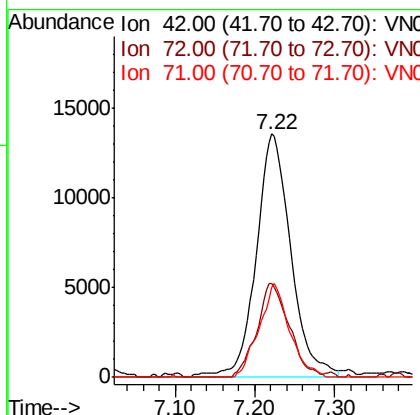
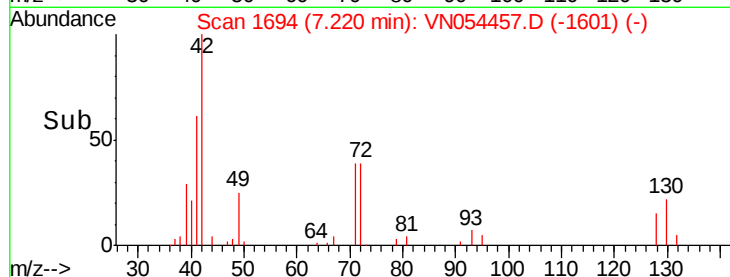
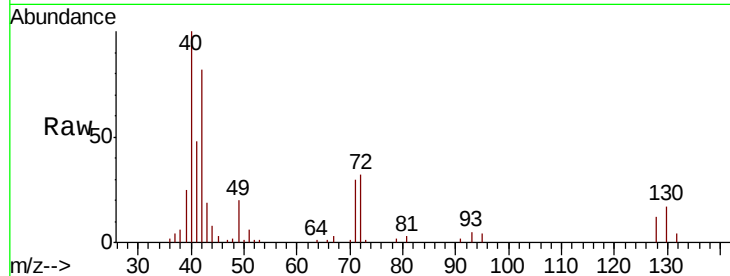
#29
Tetrahydrofuran
Concen: 32.993 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.9	37.8	56.6#
71	33.6	36.2	54.2#

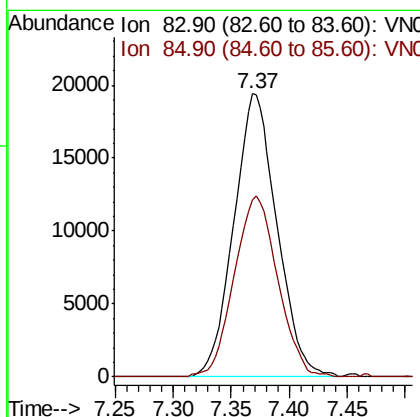
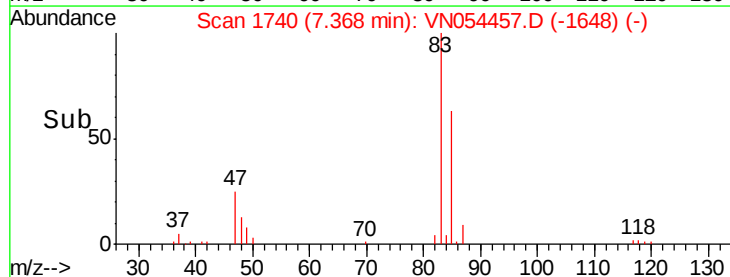
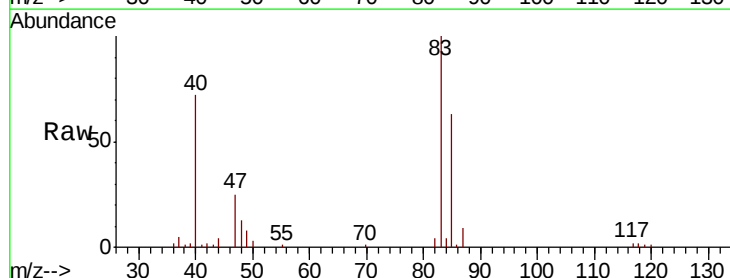
Manual Integrations
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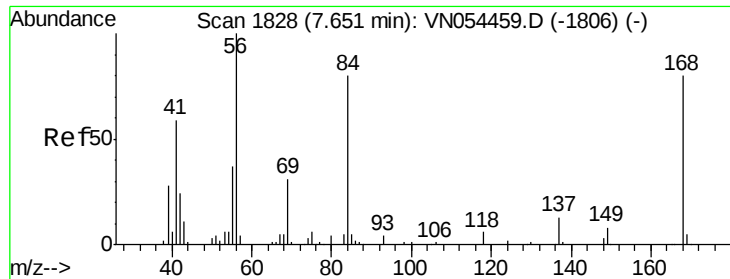
MMDadoda
3/22/2019 3:16:04 PM



#30
Chloroform
Concen: 5.244 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.6	52.2	78.4





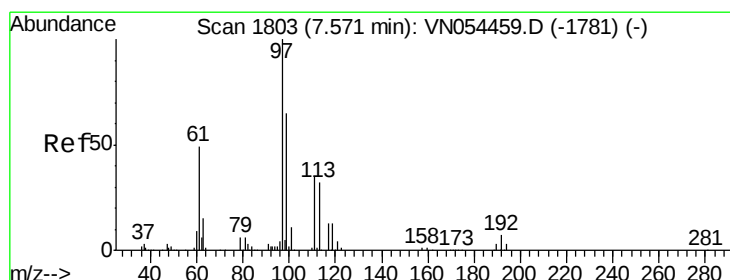
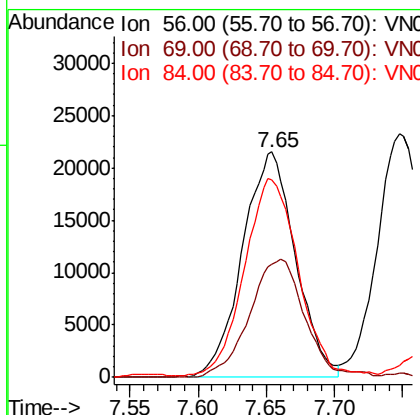
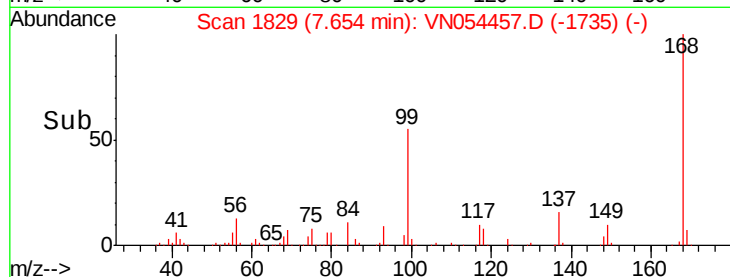
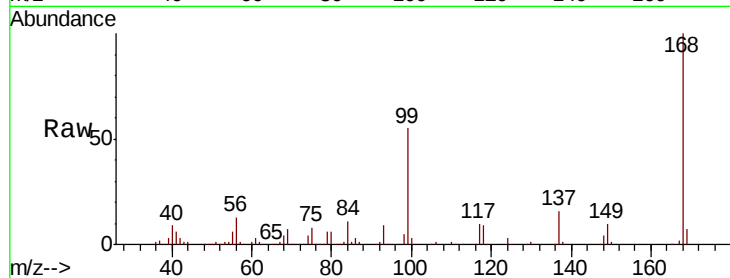
#31
Cyclohexane
Concen: 5.880 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	50.1	27.8	41.6#
84	86.7	74.6	111.8

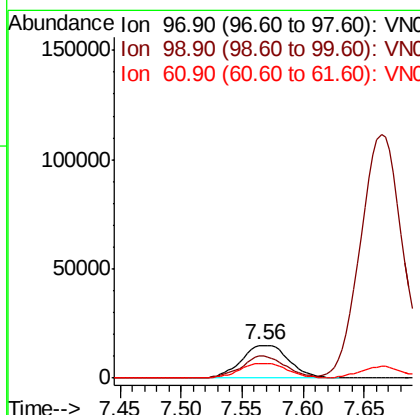
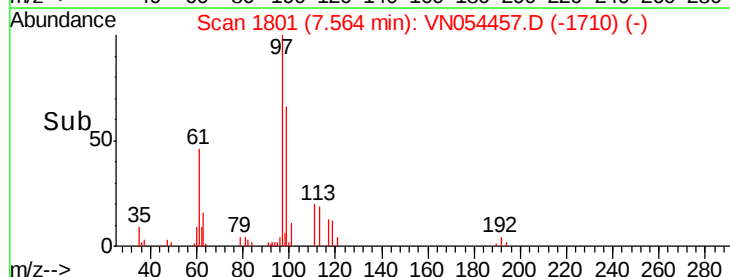
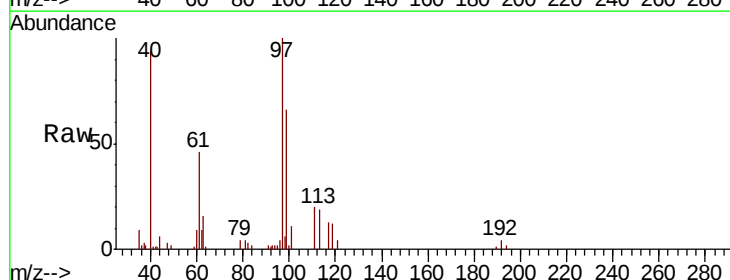
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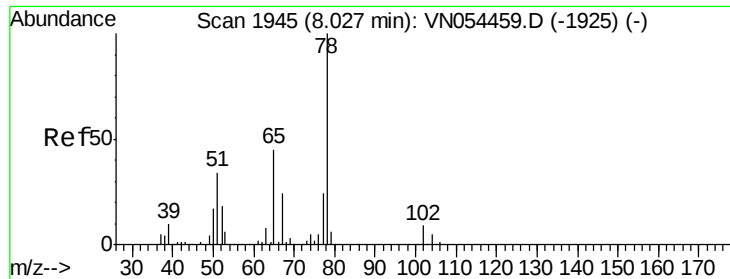
MMDadoda
3/22/2019 3:16:04 PM



#32
1,1,1-Trichloroethane
Concen: 4.712 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.01 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.0	51.5	77.3
61	46.0	33.6	50.4





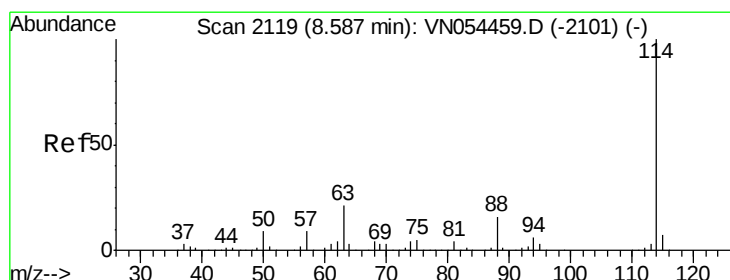
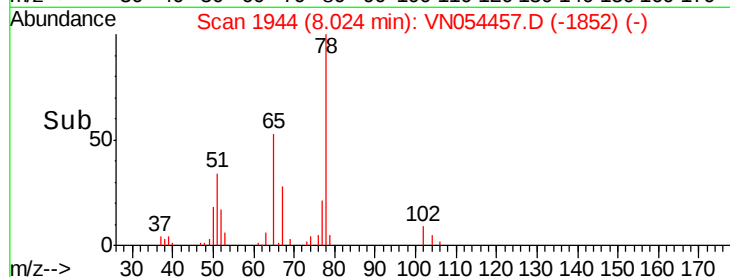
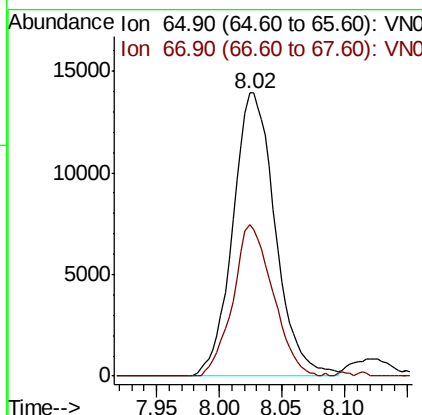
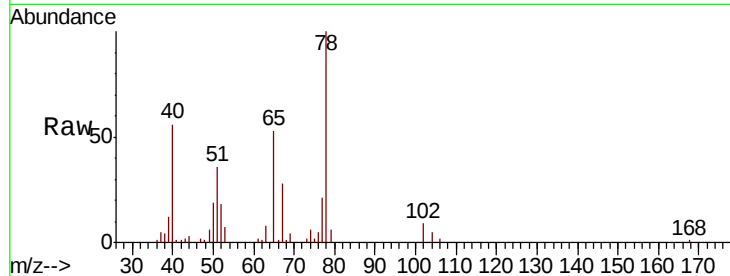
#33
 1,2-Dichloroethane-d4
 Concen: 5.754 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	104.6

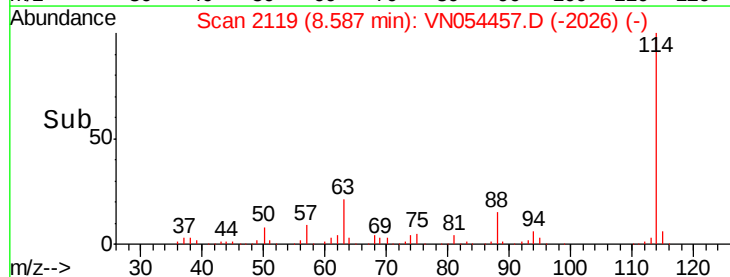
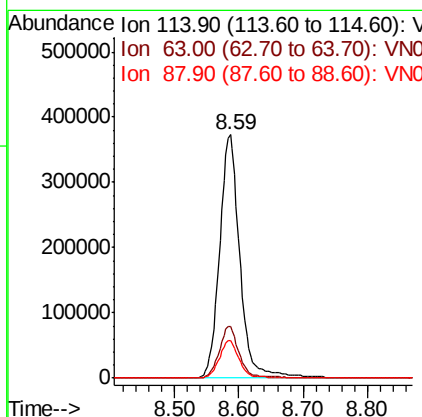
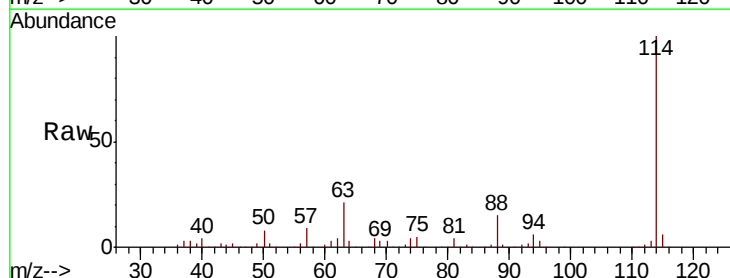
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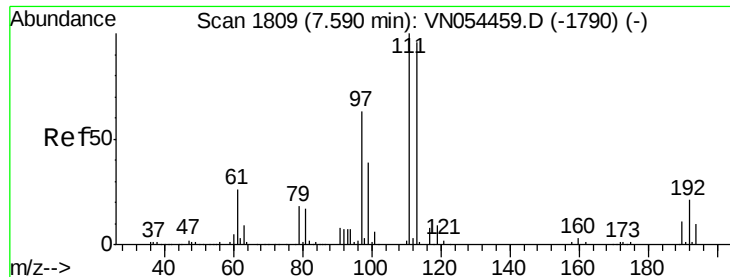
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	35.2
88	15.4	0.0	30.2





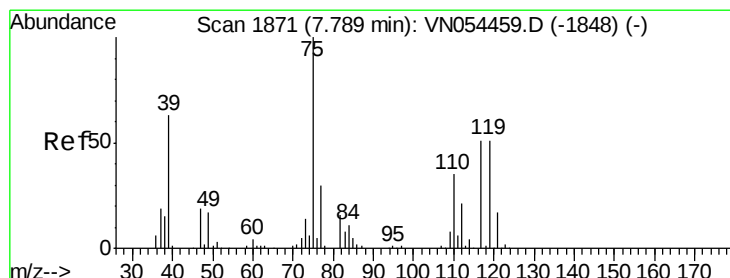
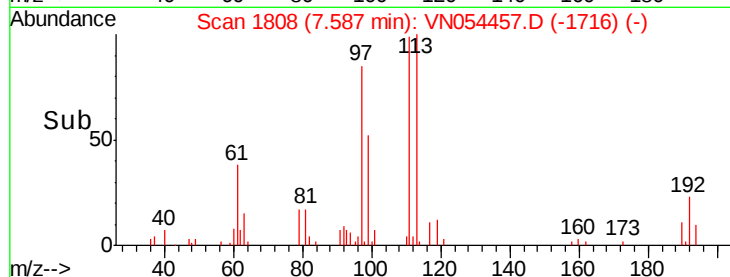
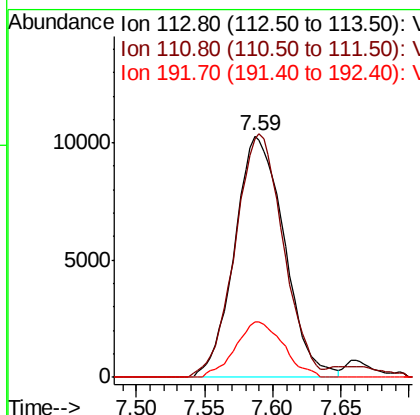
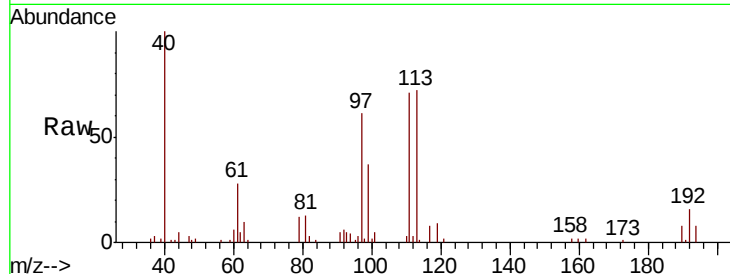
#35
 Dibromofluoromethane
 Concen: 4.915 ug/l
 RT: 7.59 min Scan# 1808
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
113	100		
111	98.4	82.2	123.4
192	22.2	19.2	28.8

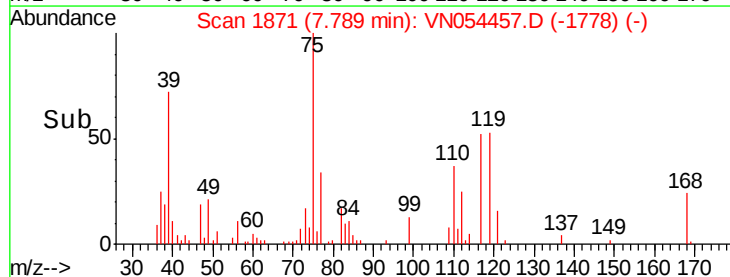
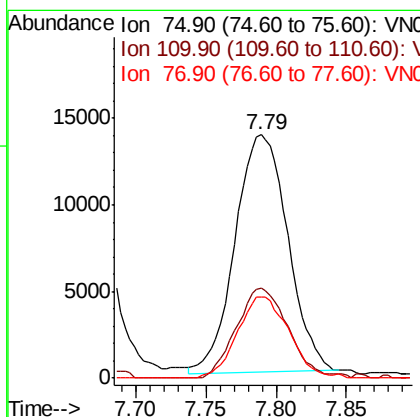
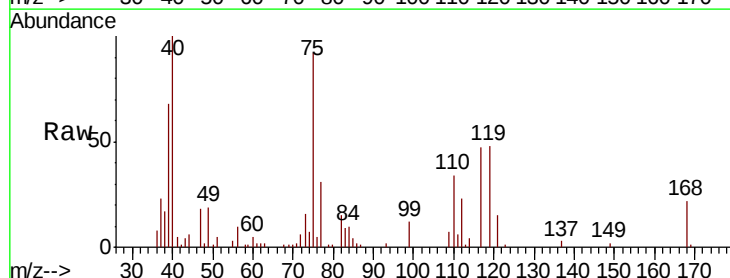
Manual Integrations
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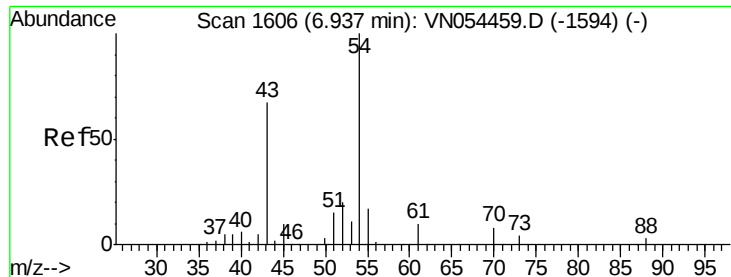
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#36
 1,1-Dichloropropene
 Concen: 4.759 ug/l
 RT: 7.79 min Scan# 1871
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.8	19.1	57.5
77	33.5	25.0	37.4





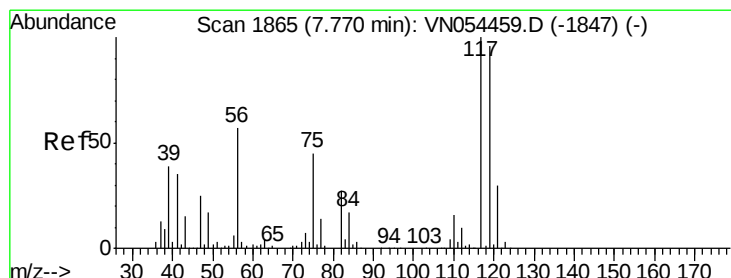
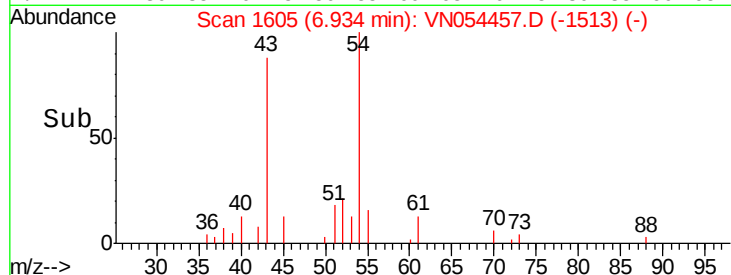
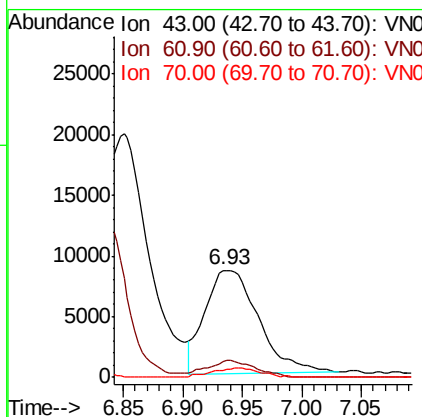
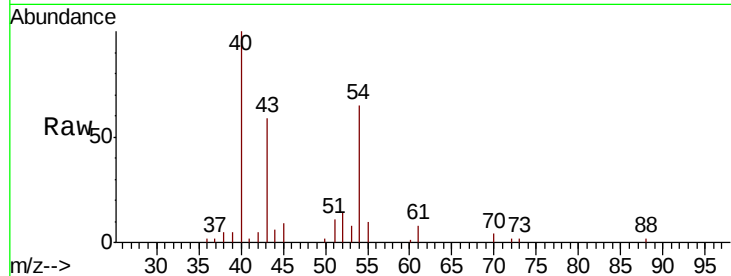
#37
Ethyl Acetate
Concen: 6.138 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.8	17.6
70	7.9	8.4	12.6

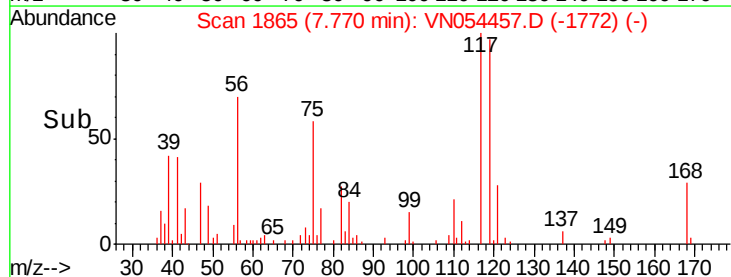
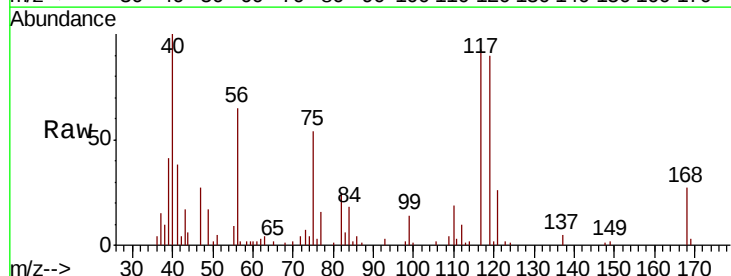
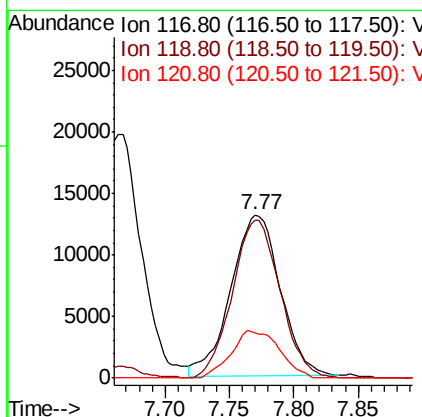
Manual Integrations
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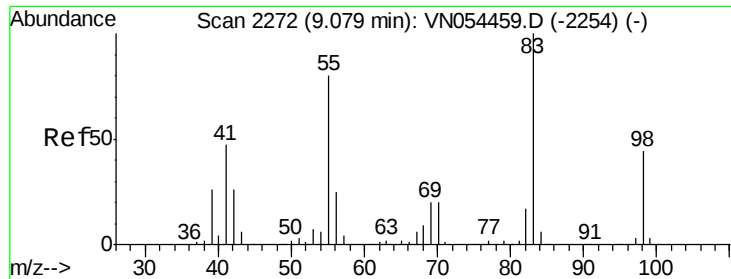
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3/22/2019 3:16:04 PM



#38
Carbon Tetrachloride
Concen: 4.417 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.4	76.3	114.5
121	28.0	24.6	36.8





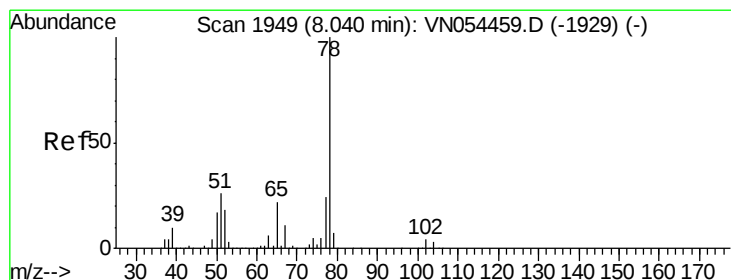
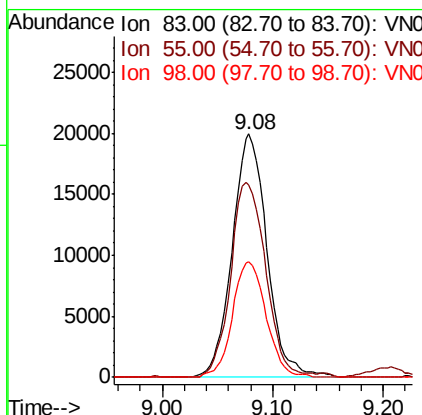
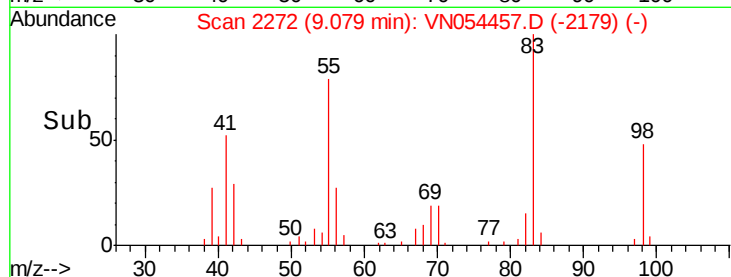
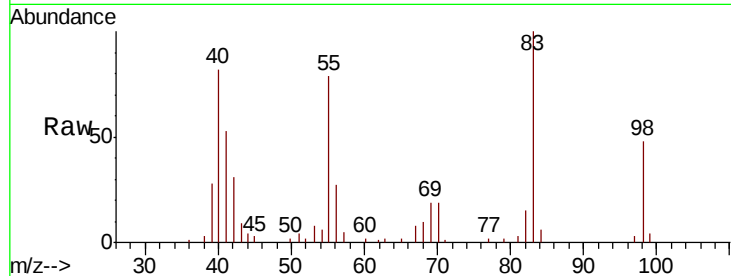
#39
Methvlcvclohexane
Concen: 4.696 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.8	56.6	84.8
98	47.6	38.4	57.6

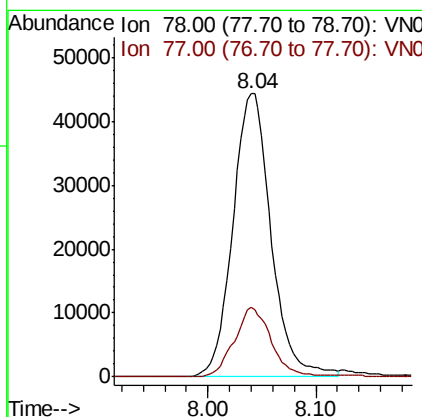
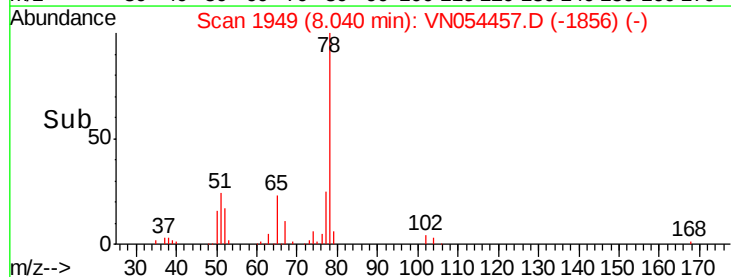
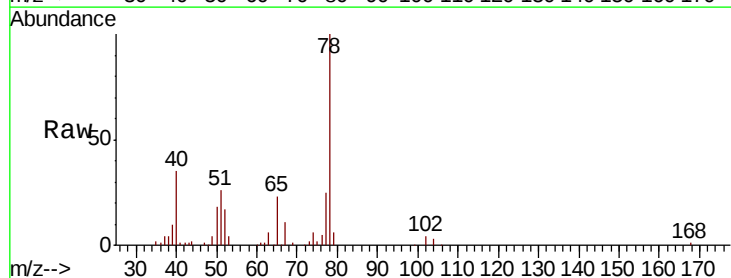
Manual Integrations
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#40
Benzene
Concen: 5.067 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.1	28.7





#41

Methacrylonitrile

Concen: 5.424 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

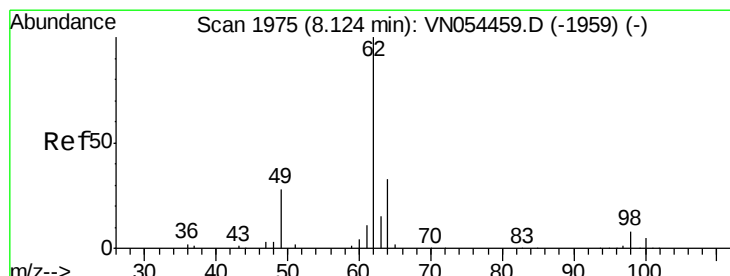
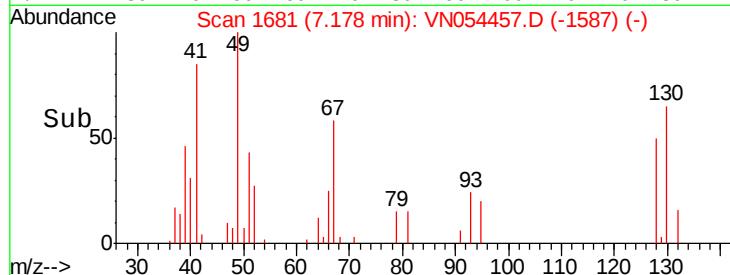
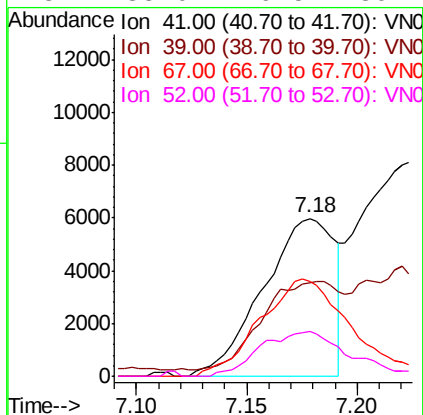
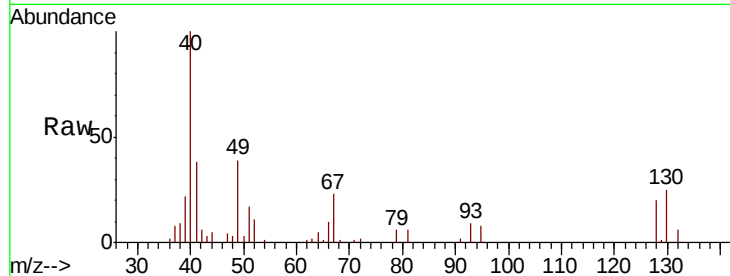
ClientSampled :

VSTDIC005

Tot Ion:	41	Resp:	13420
Ion	Ratio	Lower	Upper
41	100		
39	61.4	46.8	70.2
67	78.0	67.0	100.4
52	35.0	26.5	39.7

Manual Integrations
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3/22/2019 3:16:04 PM



#42

1,2-Dichloroethane

Concen: 5.590 ug/l

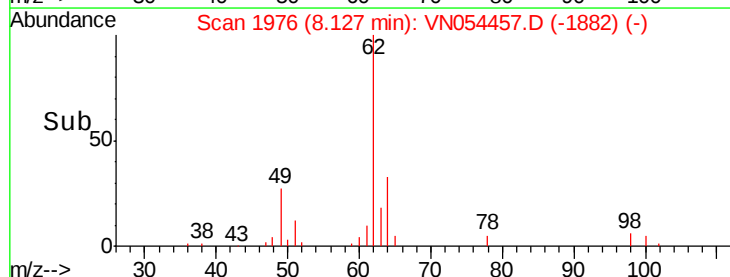
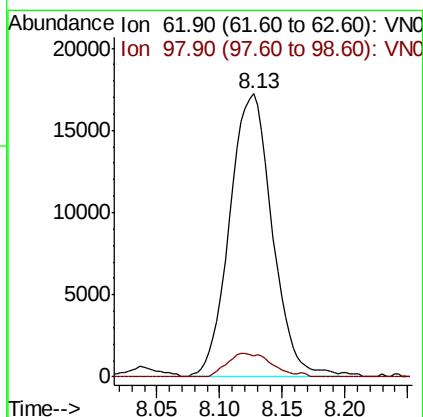
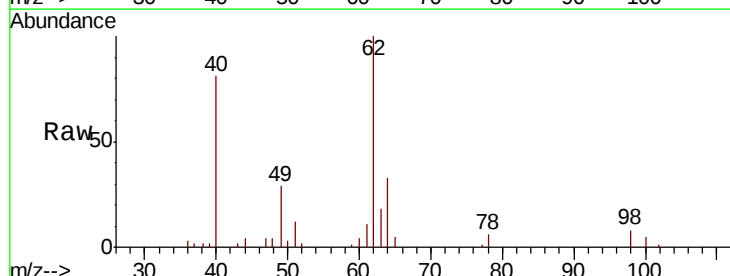
RT: 8.13 min Scan# 1976

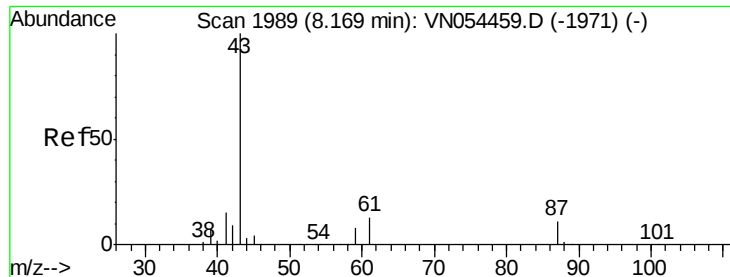
Delta R.T. 0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Tgt Ion:	62	Resp:	40728
Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.4





#43

Isopropyl Acetate

Concen: 5.404 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

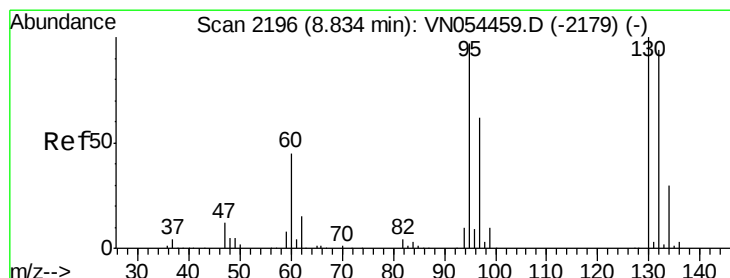
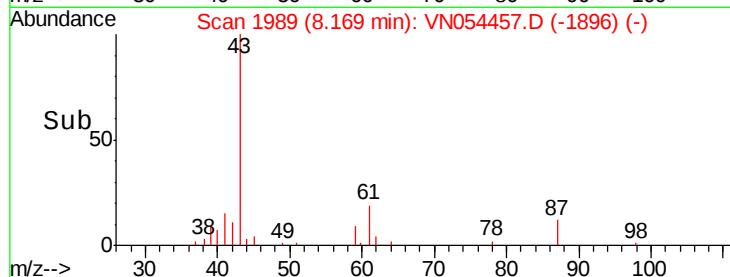
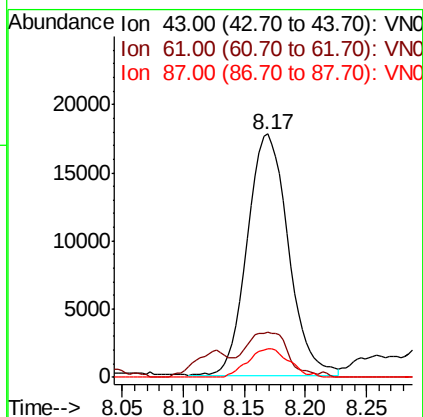
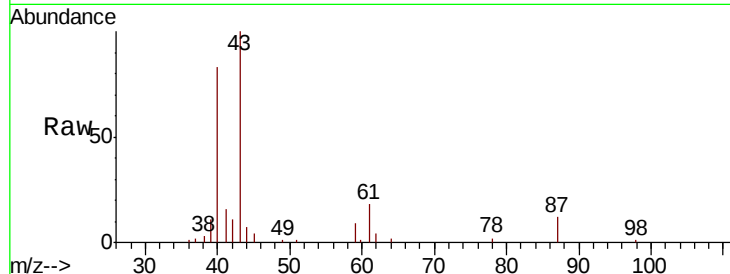
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	41105
Ion	Ratio	Lower	Upper
43	100		
61	16.9	15.8	23.8
87	11.9	12.0	18.0#

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#44

Trichloroethene

Concen: 4.440 ug/l

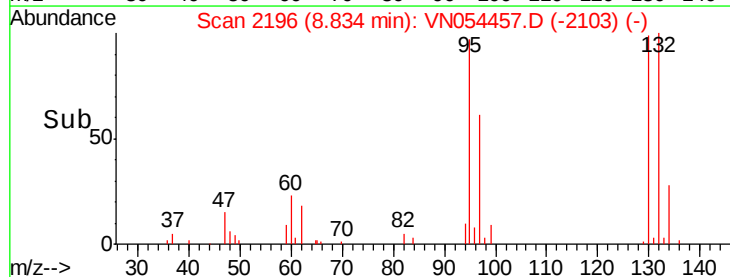
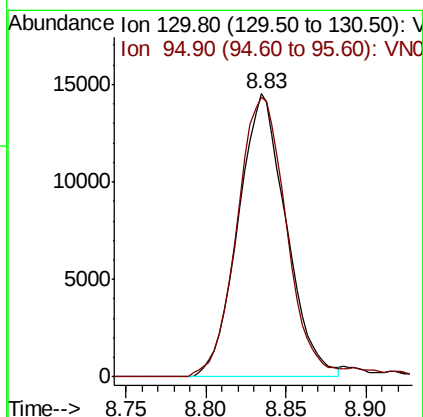
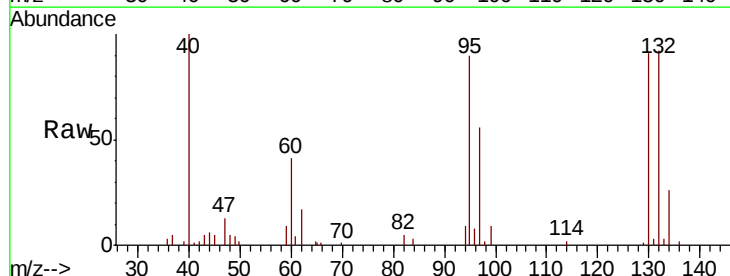
RT: 8.83 min Scan# 2196

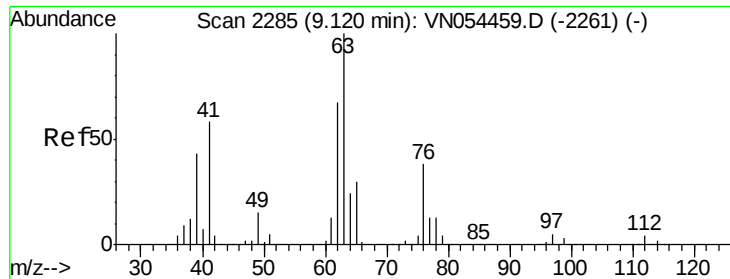
Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Tgt Ion:	130	Resp:	29770
Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	185.2





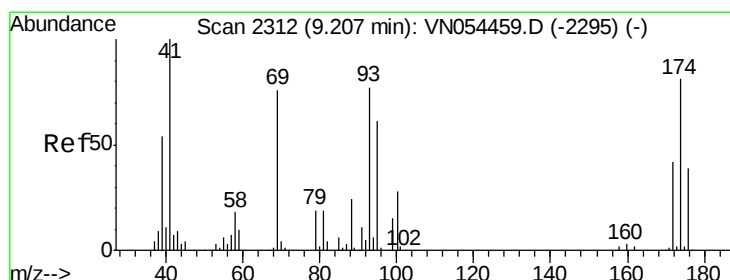
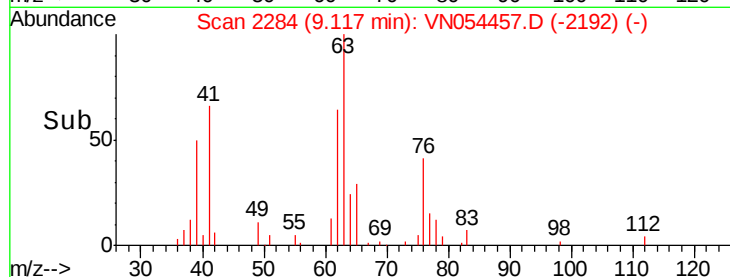
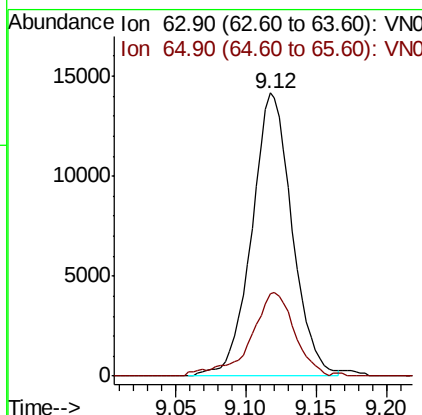
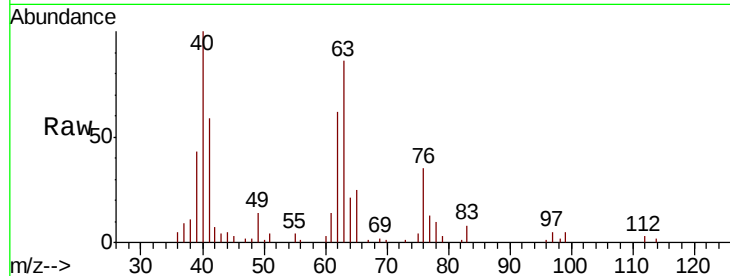
#45
 1,2-Dichloropropane
 Concen: 5.273 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 28260
 Ion Ratio Lower Upper
 63 100
 65 28.0 25.0 37.6

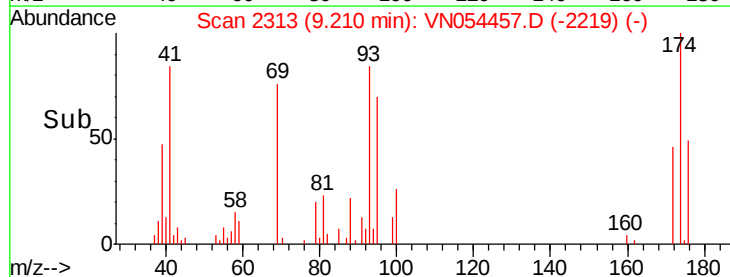
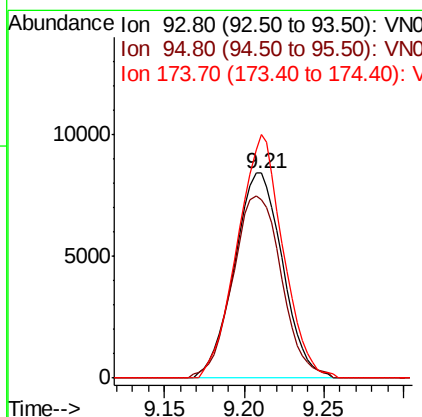
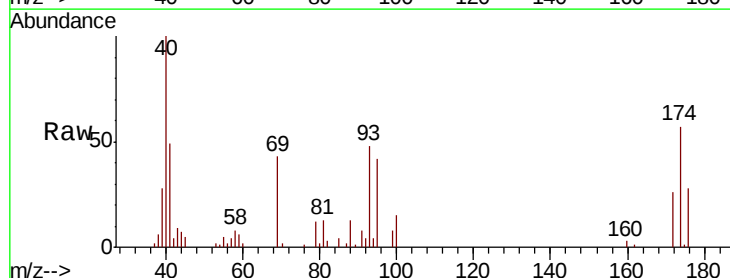
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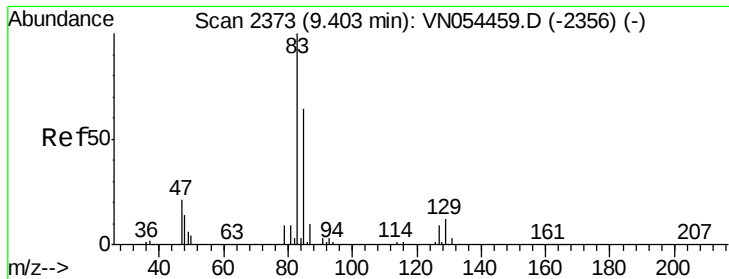
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#46
 Dibromomethane
 Concen: 4.781 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Tgt Ion: 93 Resp: 17313
 Ion Ratio Lower Upper
 93 100
 95 89.9 66.7 100.1
 174 112.1 98.5 147.7





#47

Bromodichloromethane

Concen: 4.818 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

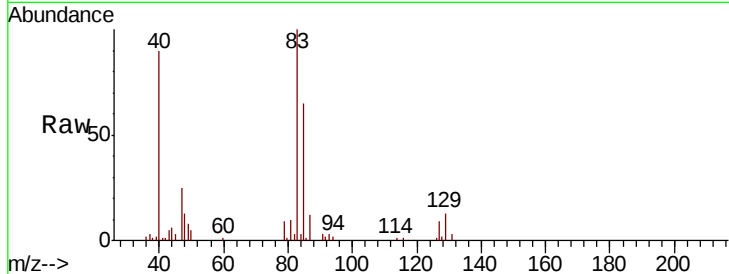
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	34973
Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.8	79.2
127	9.5	7.4	11.2

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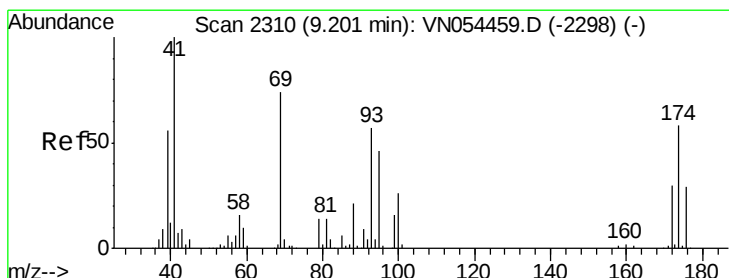
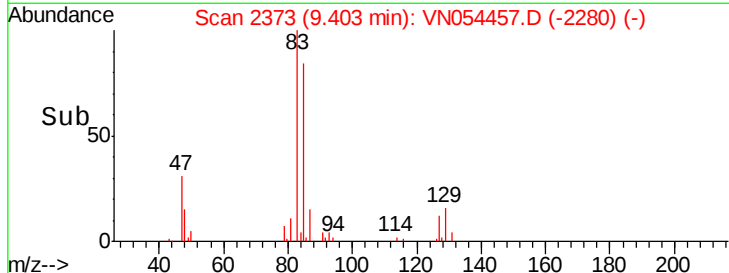
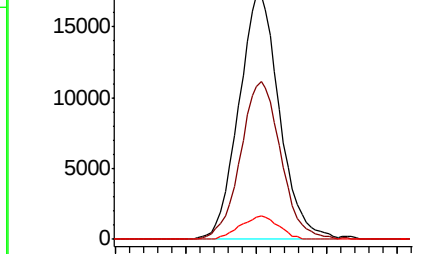
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Abundance Ion 82.90 (82.60 to 83.60): VN054459.D (-2356) (-)

Ion 84.90 (84.60 to 85.60): VN054459.D (-2356) (-)

Ion 126.80 (126.50 to 127.50): VN054459.D (-2356) (-)



#48

Methyl methacrylate

Concen: 5.615 ug/l

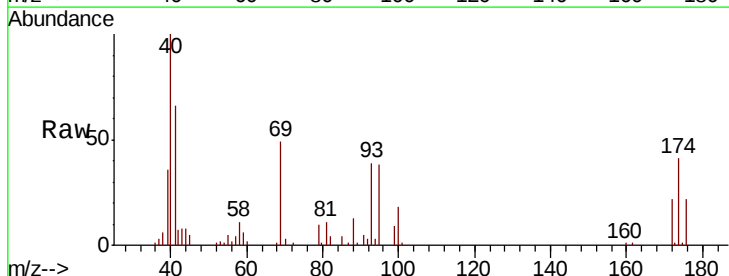
RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

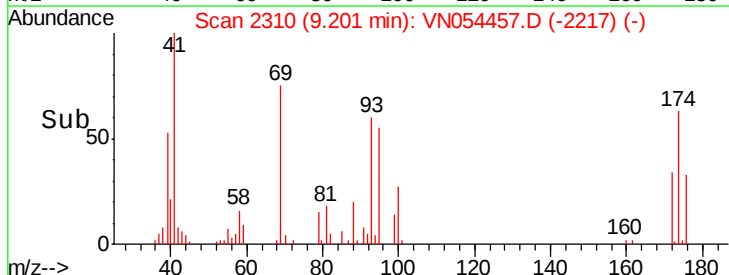
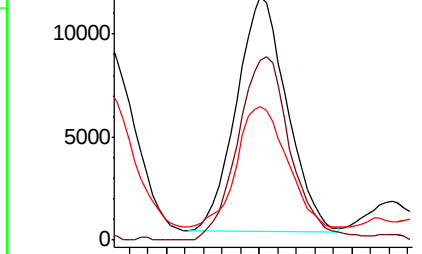
Tgt Ion:	41	Resp:	21674
Ion	Ratio	Lower	Upper
41	100		
69	81.5	72.6	108.8
39	51.2	47.5	71.3

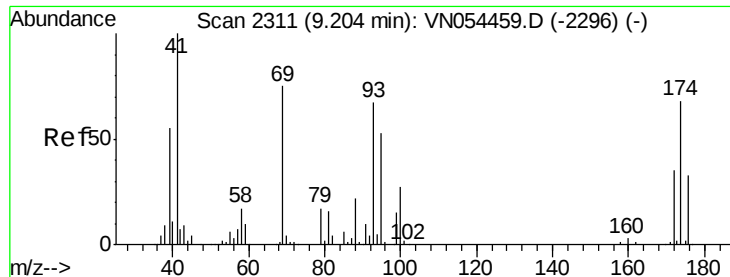


Abundance Ion 41.00 (40.70 to 41.70): VN054459.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN054459.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN054459.D (-2298) (-)





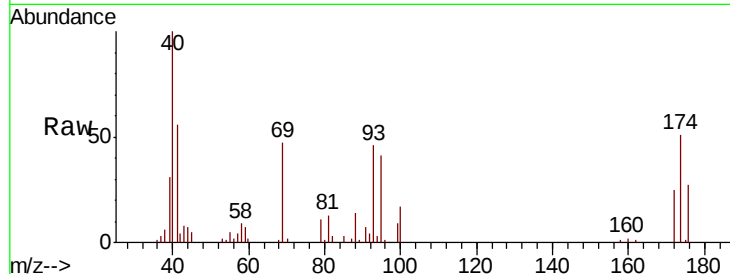
#49
1,4-Dioxane
Concen: 97.469 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

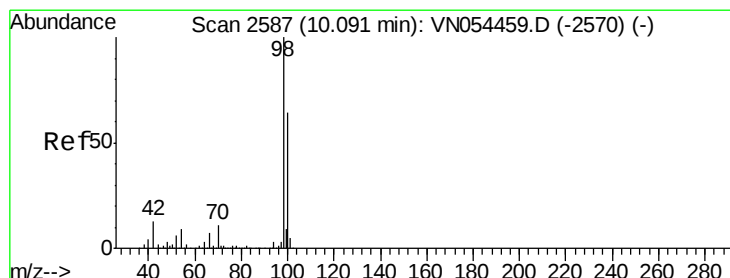
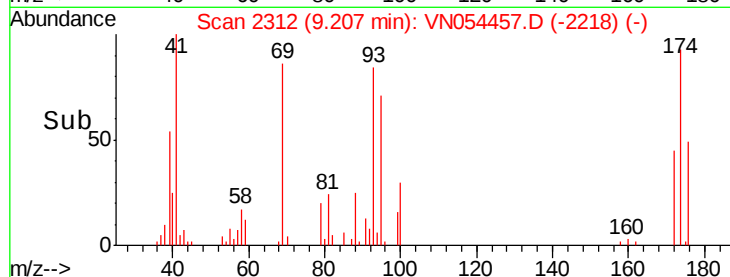
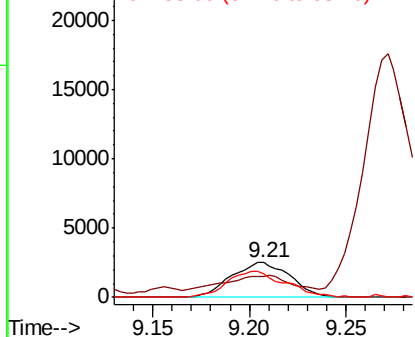
Tot Ion	Ratio	Lower	Upper
88	100		
43	43.6	24.1	36.1#
58	75.3	50.8	76.2

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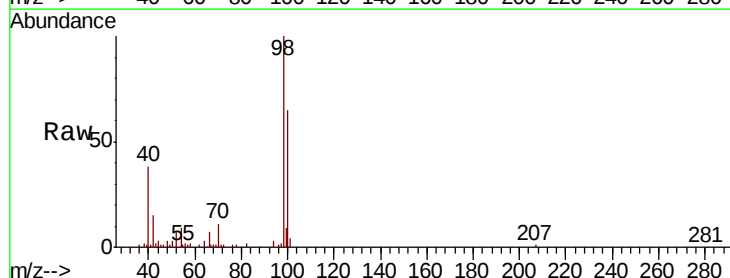


Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

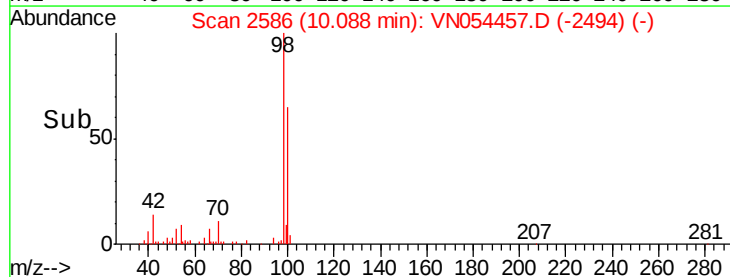
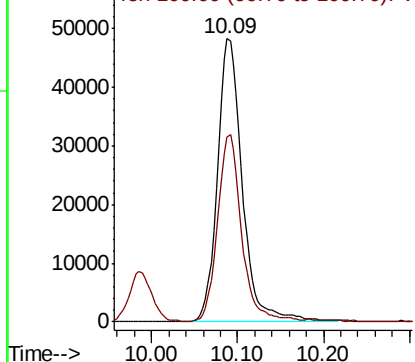


#50
Toluene-d8
Concen: 5.003 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.2	76.8



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





#51

4-Methyl-2-Pentanone

Concen: 28.978 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 116647

Ion Ratio Lower Upper

43 100

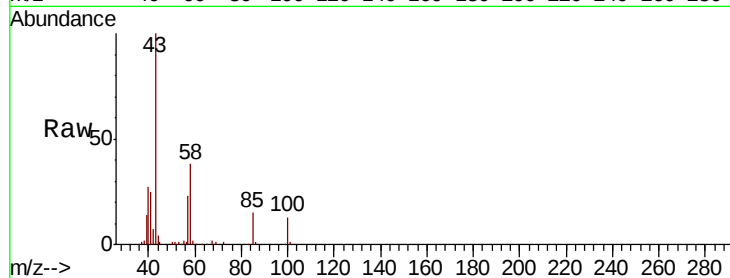
58 37.3 31.8 47.6

Manual Integrations

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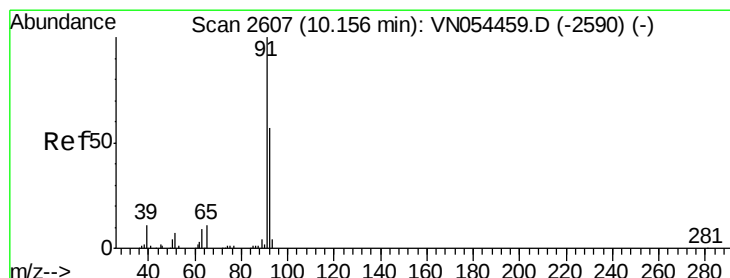
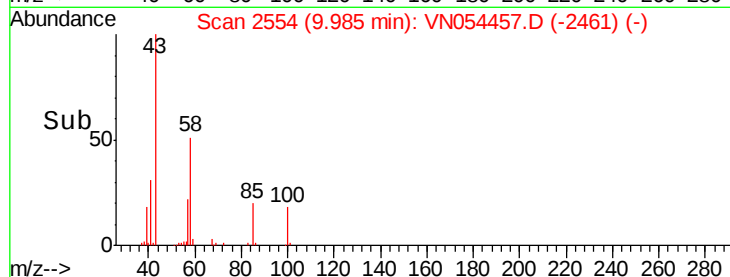
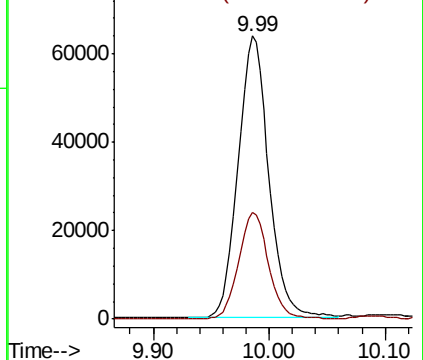
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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 4.812 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN054457.D

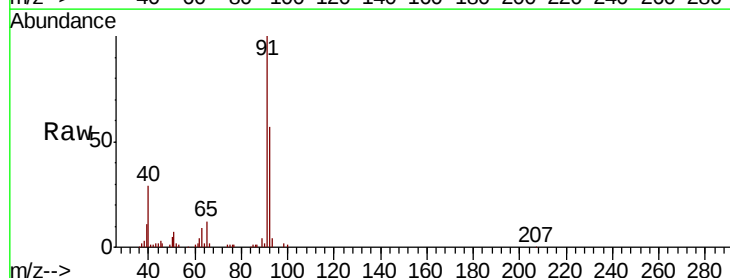
Acq: 20 Mar 2019 10:47

Tgt Ion: 92 Resp: 65844

Ion Ratio Lower Upper

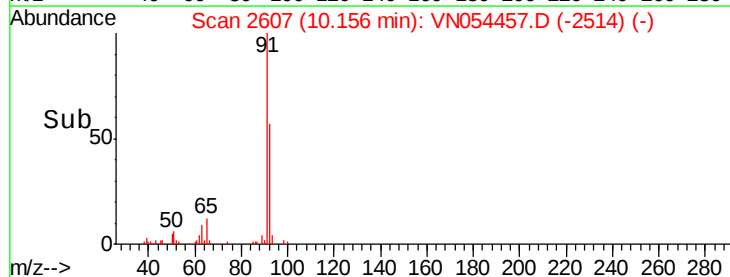
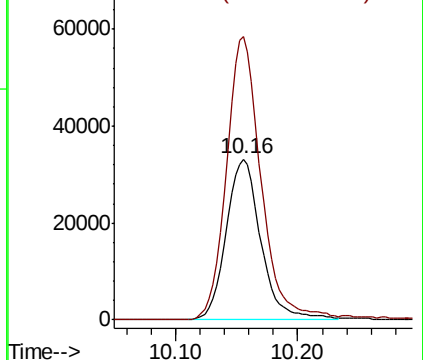
92 100

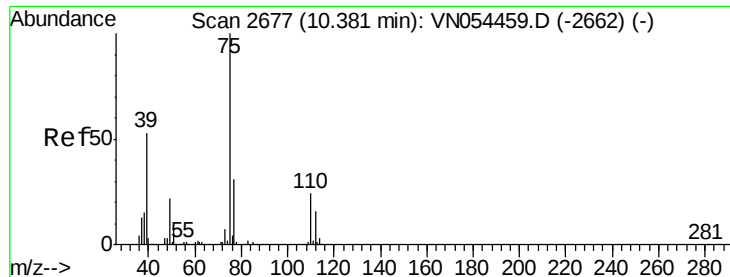
91 175.4 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





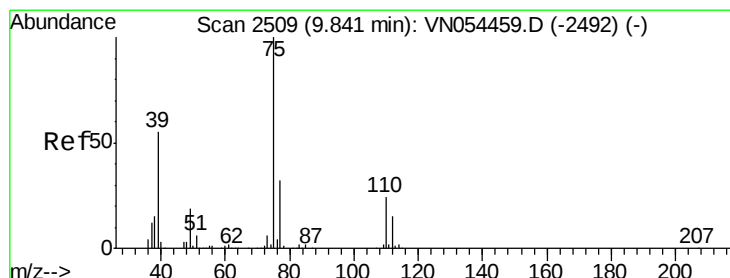
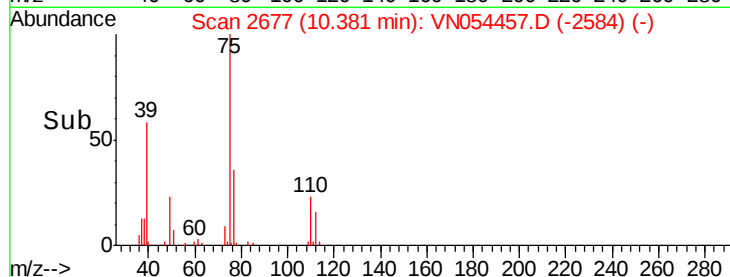
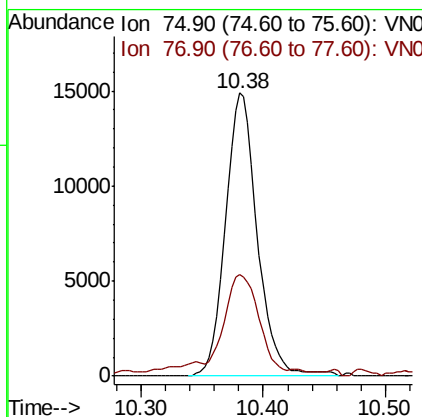
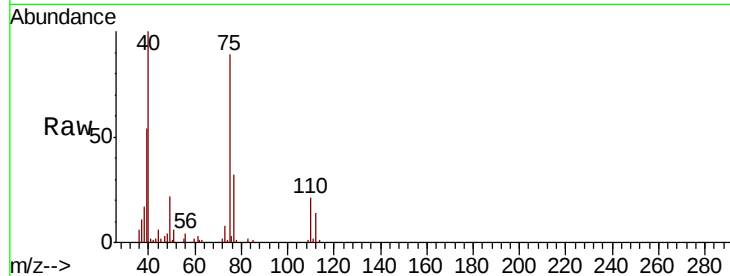
#53
t-1,3-Dichloropropene
Concen: 3.675 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.0	25.8	38.8

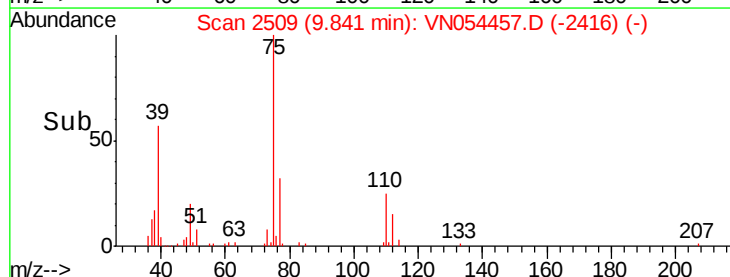
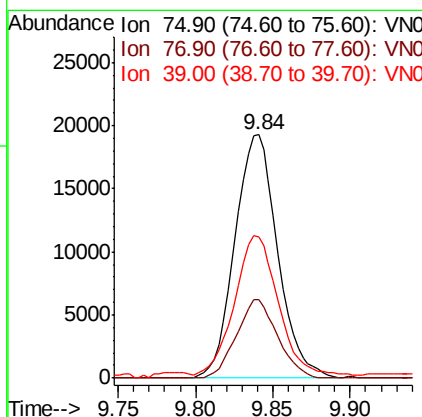
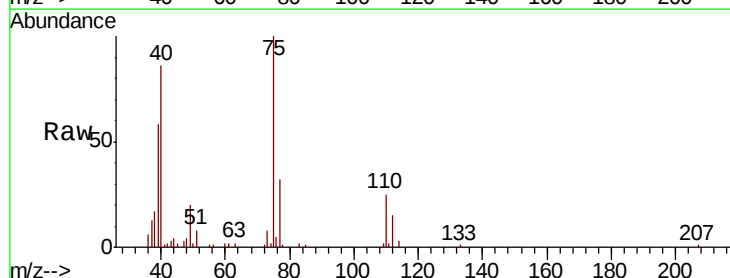
Manual Integrations
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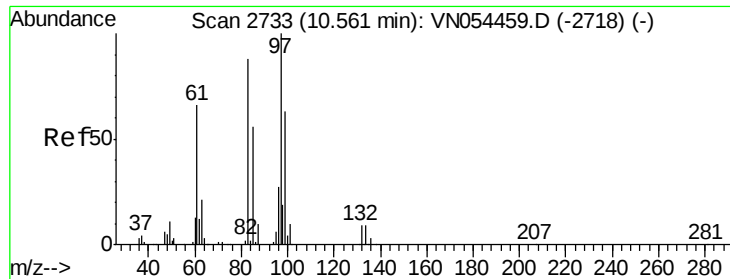
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#54
cis-1,3-Dichloropropene
Concen: 4.374 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.4	38.0
39	56.5	37.2	55.8#





#55

1,1,2-Trichloroethane

Concen: 4.772 ug/l

RT: 10.56 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

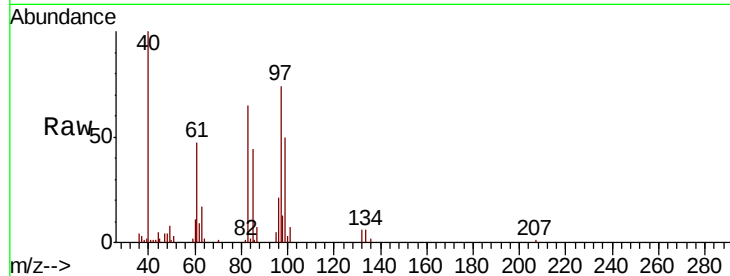
ClientSampleId :

VSTDIC005

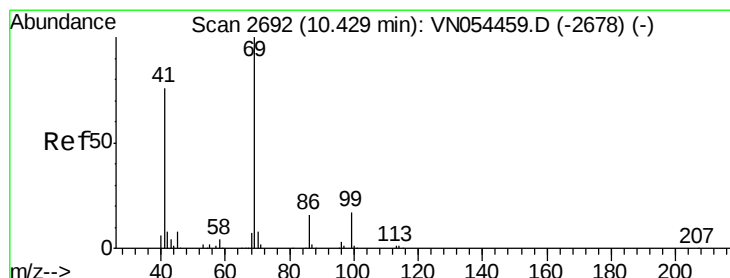
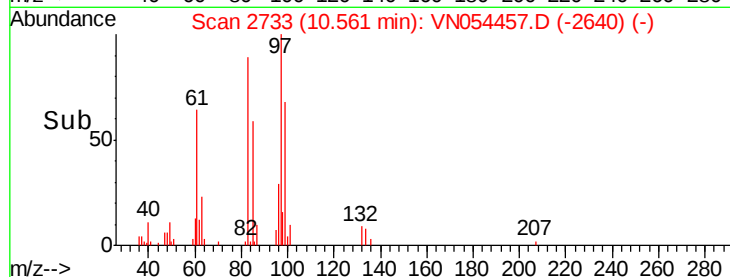
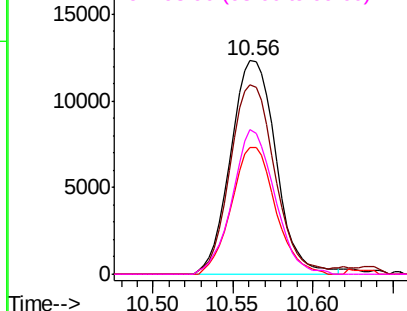
Tot Ion:	97	Resp:	23845
Ion	Ratio	Lower	Upper
97	100		
83	88.8	66.6	100.0
85	59.4	44.4	66.6
99	67.7	50.8	76.2

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Abundance Ion 96.90 (96.60 to 97.60): VNO
Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 98.90 (98.60 to 99.60): VNO



#56

Ethyl methacrylate

Concen: 4.861 ug/l

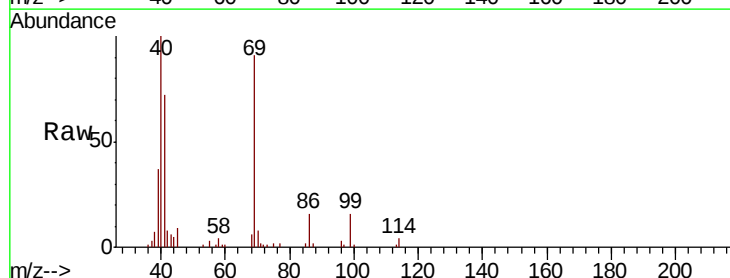
RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

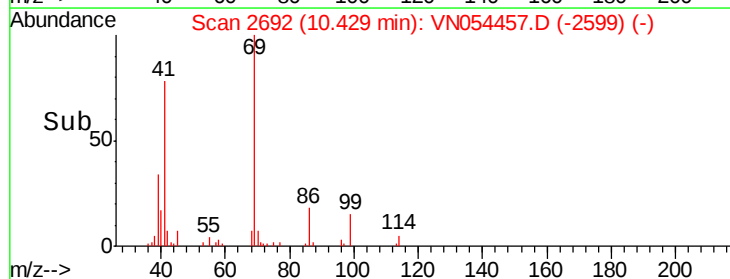
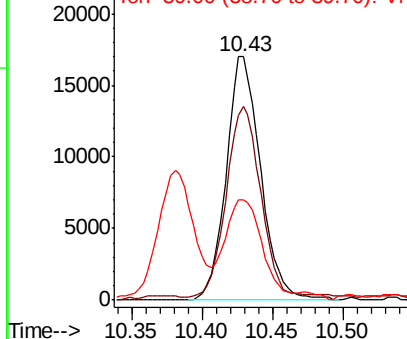
Lab File: VN054457.D

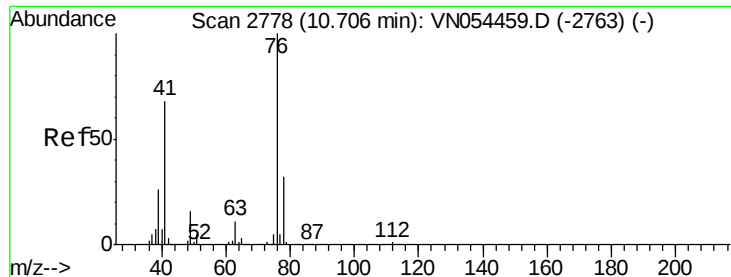
Acq: 20 Mar 2019 10:47

Tgt Ion:	69	Resp:	28963
Ion	Ratio	Lower	Upper
69	100		
41	78.0	49.4	74.2#
39	40.4	28.3	42.5



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





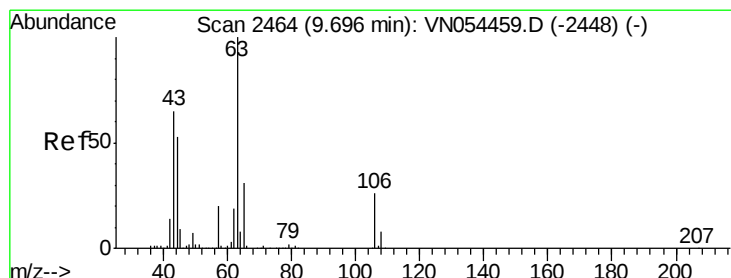
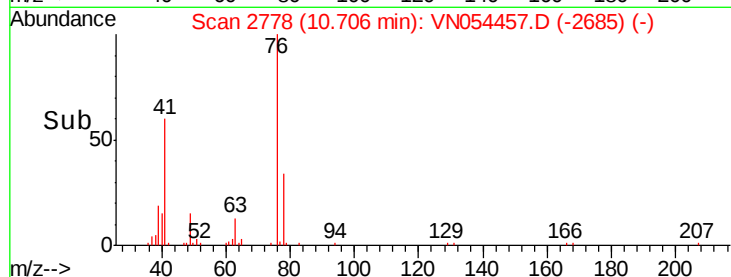
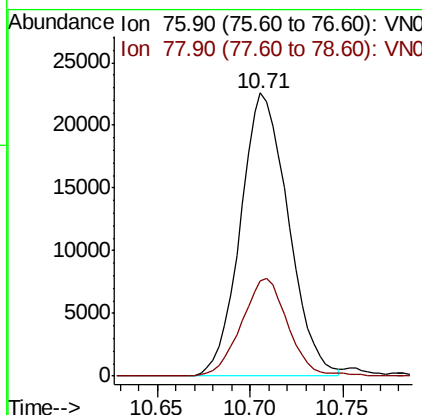
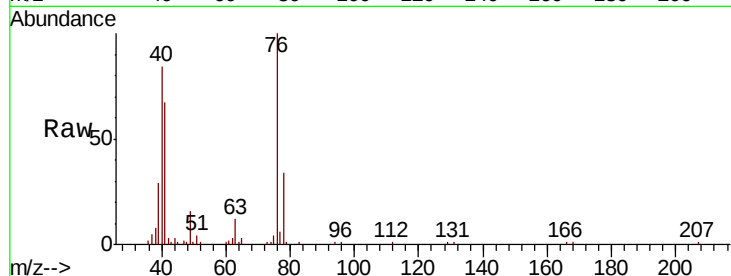
#57
 1,3-Dichloropropane
 Concen: 4.975 ug/l
 RT: 10.71 min Scan# 2778
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 76 Resp: 40650
 Ion Ratio Lower Upper
 76 100
 78 33.6 25.7 38.5

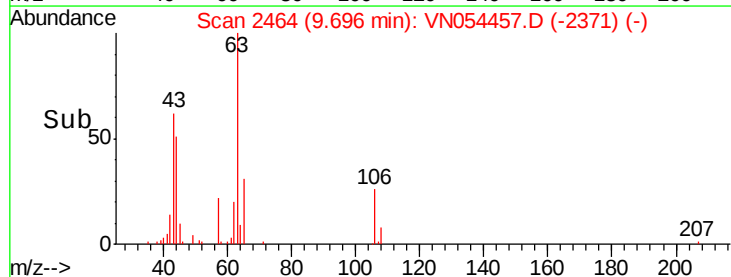
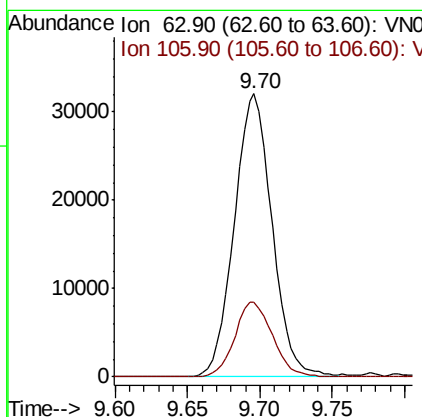
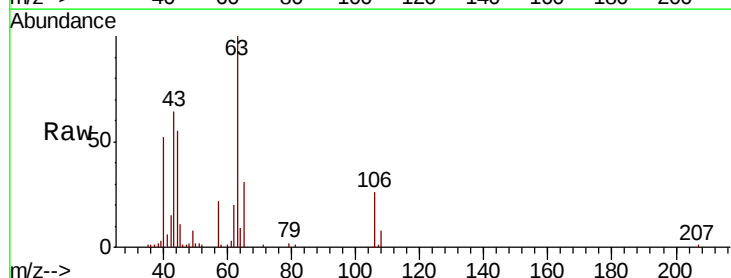
Manual Integrations
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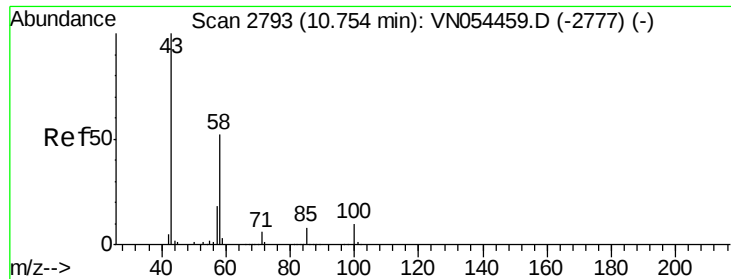
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#58
 2-Chloroethyl Vinyl ether
 Concen: 25.744 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Tgt Ion: 63 Resp: 58102
 Ion Ratio Lower Upper
 63 100
 106 26.3 24.4 36.6





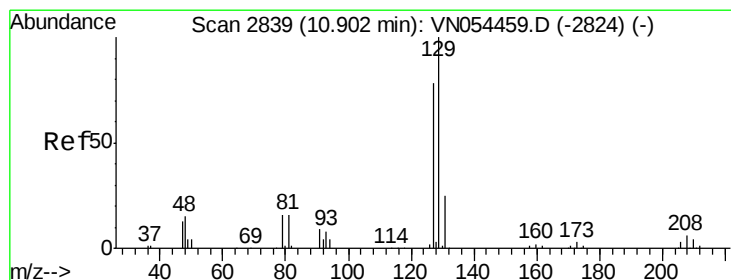
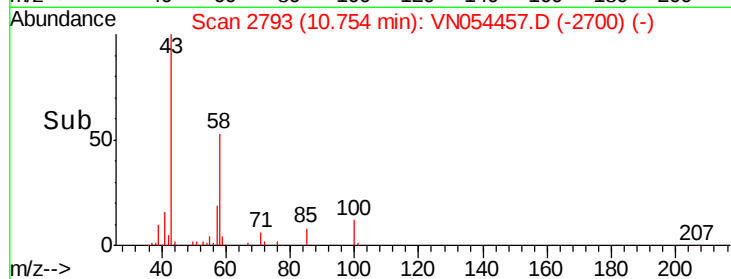
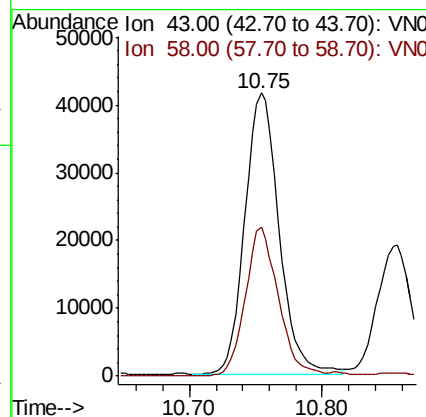
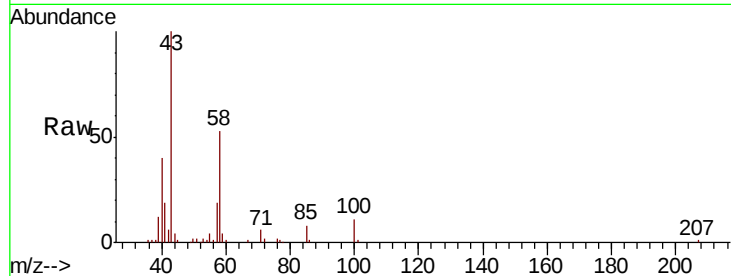
#59
2-Hexanone
Concen: 27.789 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 74433
Ion Ratio Lower Upper
43 100
58 51.2 28.0 83.9

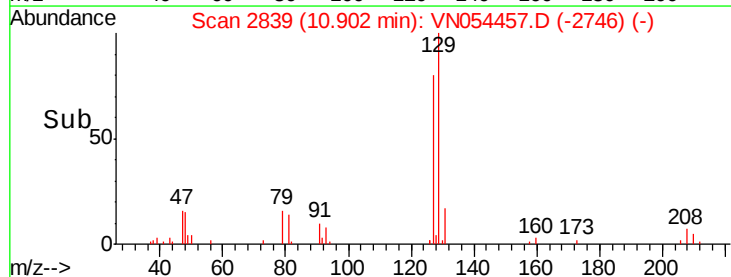
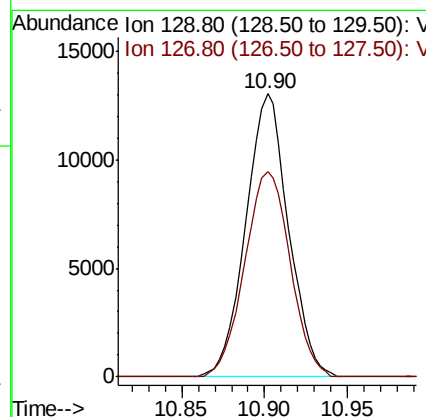
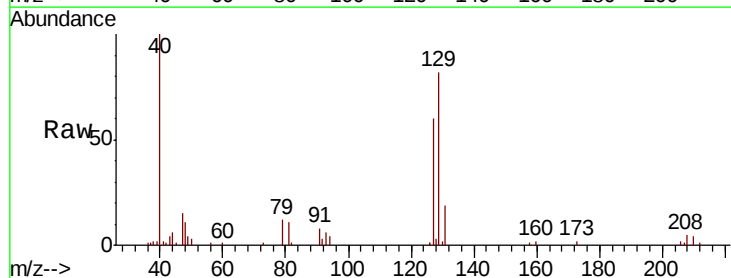
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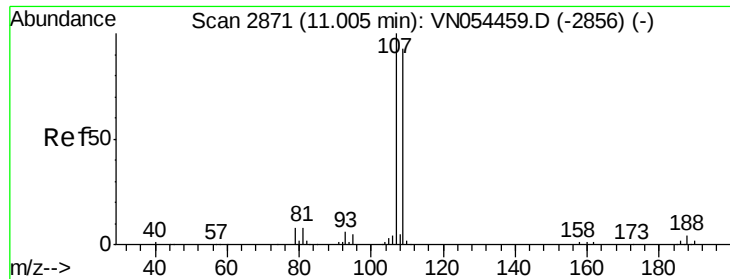
MMDadoda
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#60
Dibromochloromethane
Concen: 4.145 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion: 129 Resp: 23310
Ion Ratio Lower Upper
129 100
127 77.3 38.6 115.8





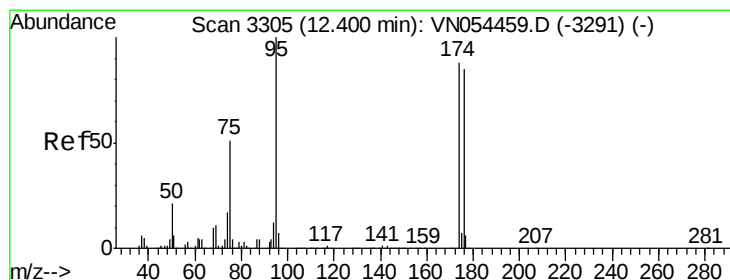
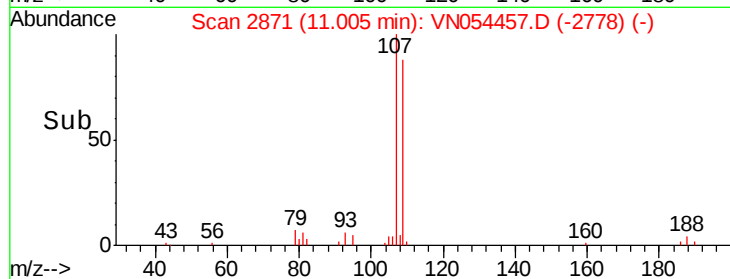
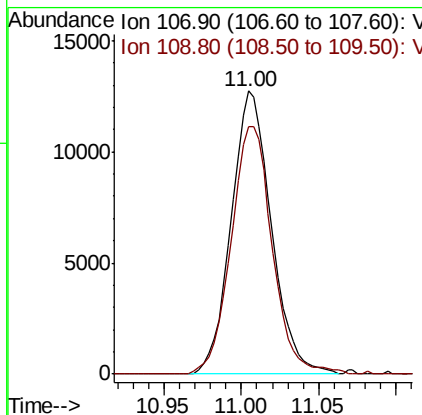
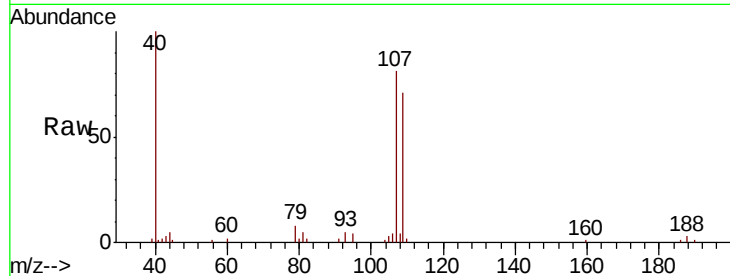
#61
 1,2-Dibromoethane
 Concen: 4.512 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.0	75.9	113.9

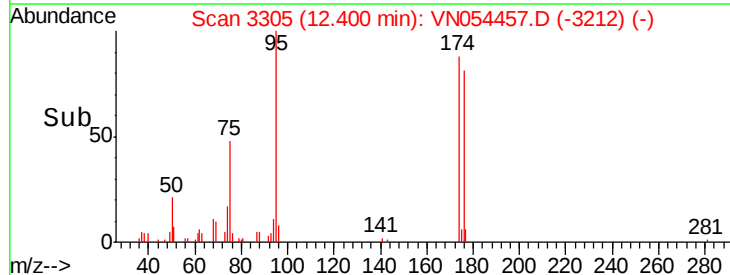
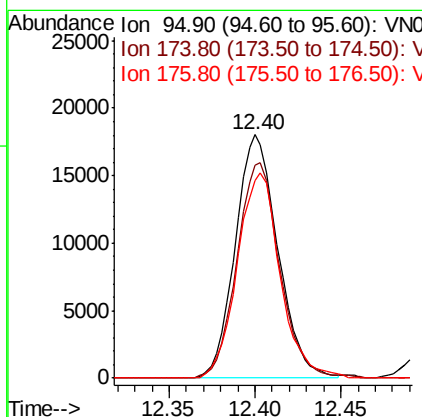
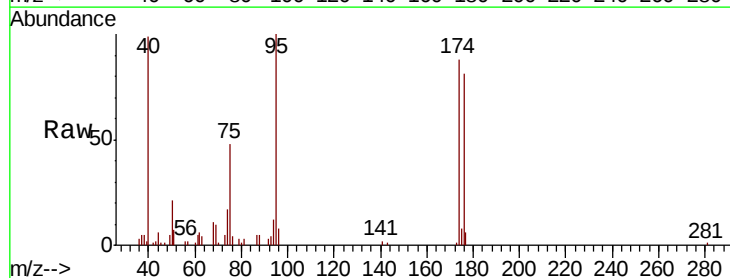
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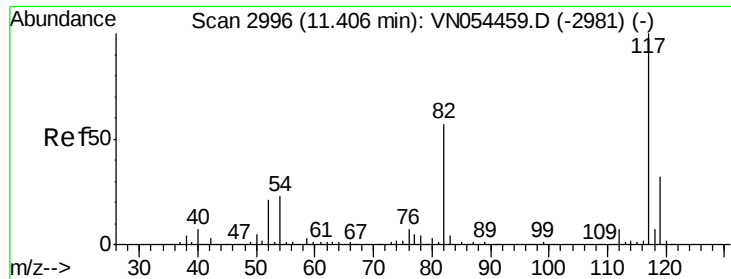
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#62
 4-Bromofluorobenzene
 Concen: 4.537 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.8	0.0	191.0
176	84.8	0.0	187.4





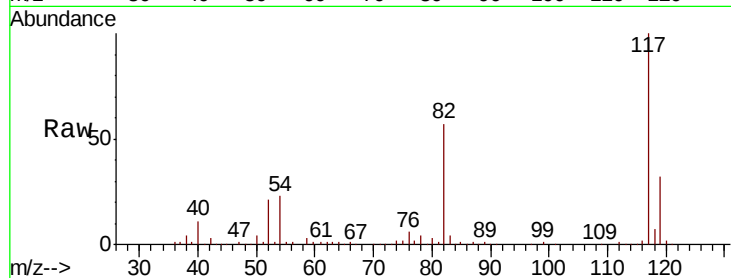
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.7	40.0	60.0
119	32.2	25.8	38.6

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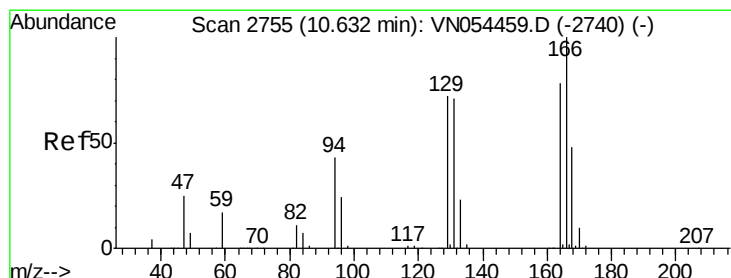
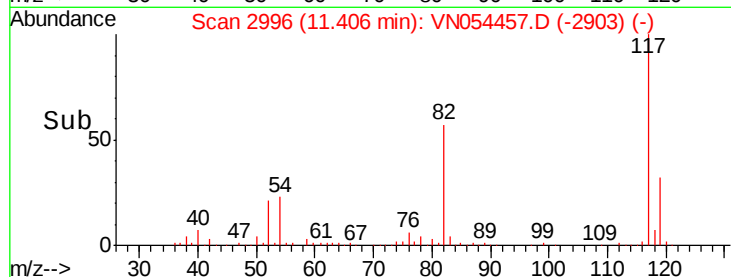
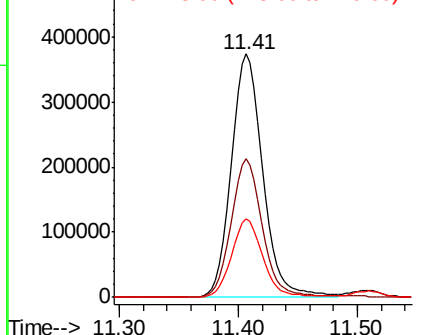


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 4.580 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.1	103.9	155.9
129	91.4	71.1	106.7
131	87.5	68.2	102.4

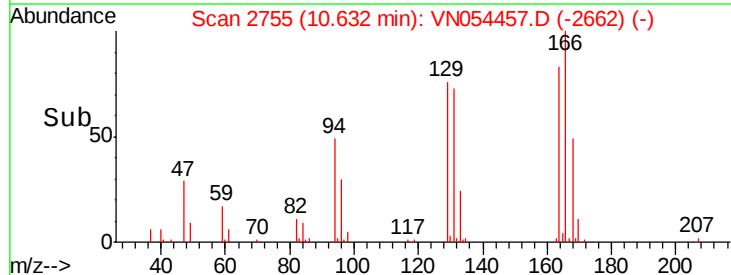
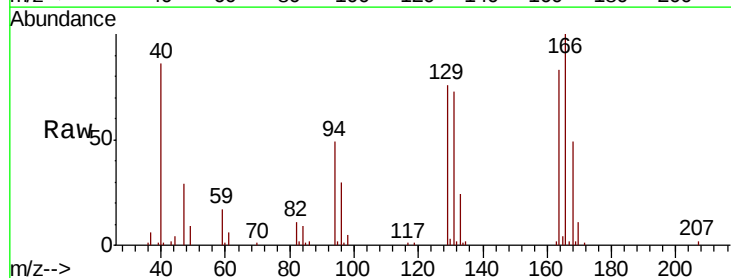
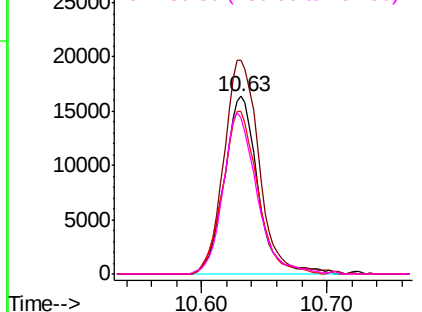
Abundance

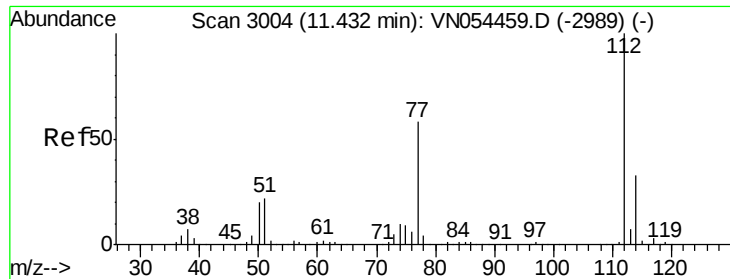
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#65

Chlorobenzene

Concen: 4.705 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:112 Resp: 70958

Ion Ratio Lower Upper

112 100

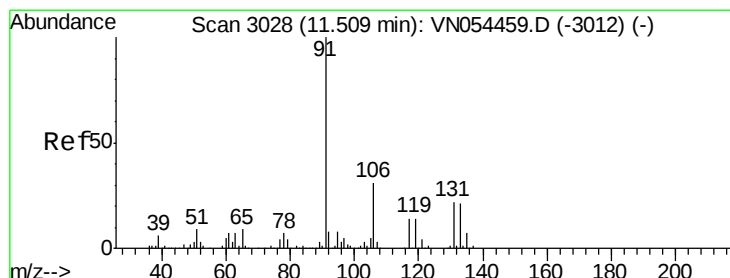
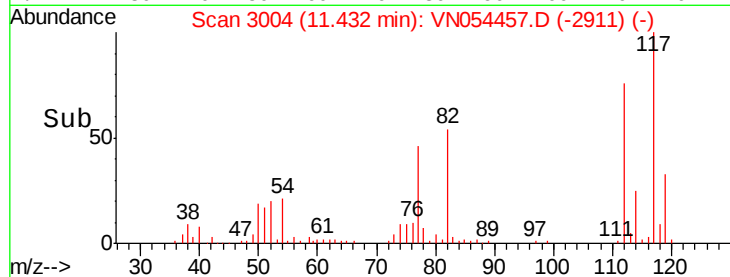
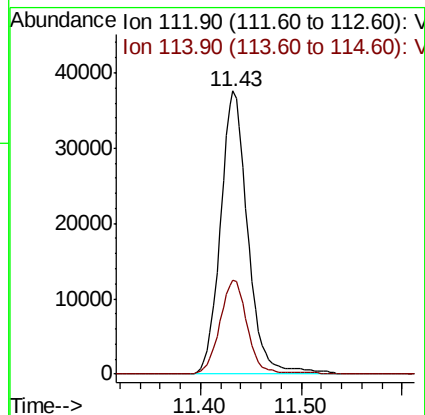
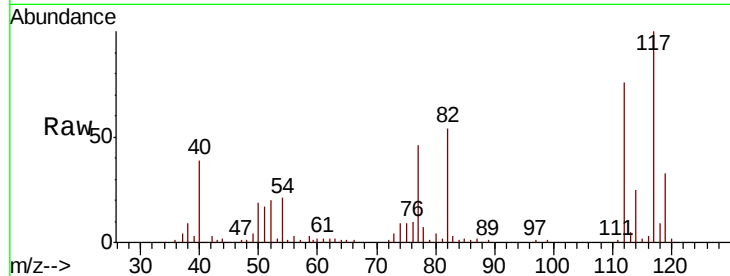
114 33.4 25.9 38.9

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#66

1,1,1,2-Tetrachloroethane

Concen: 4.468 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

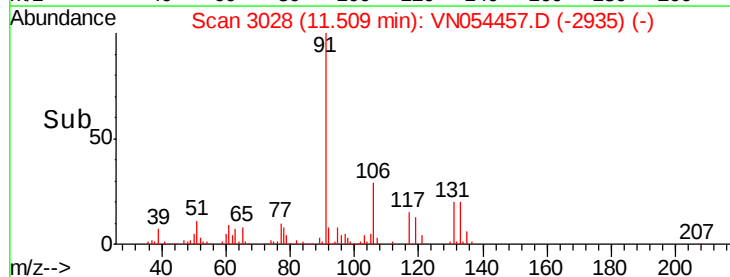
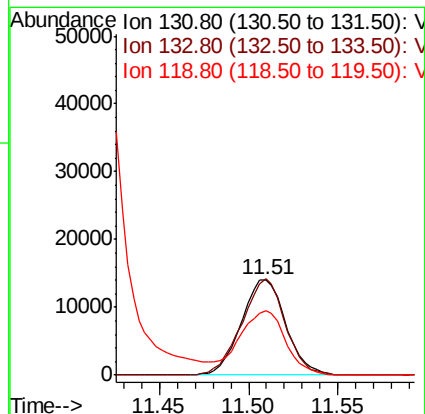
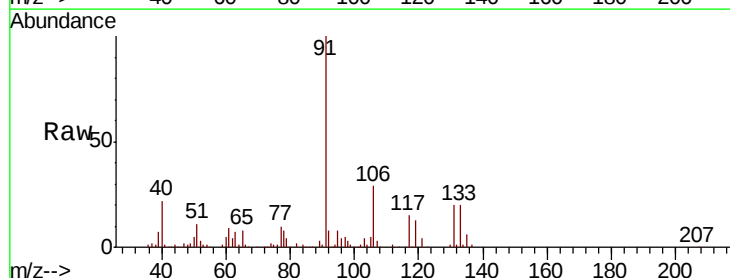
Tgt Ion:131 Resp: 24481

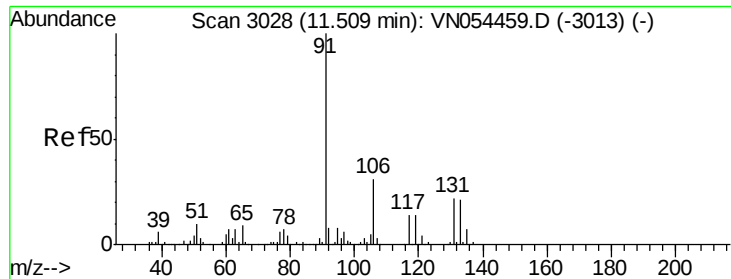
Ion Ratio Lower Upper

131 100

133 98.2 47.6 142.9

119 70.0 32.4 97.0





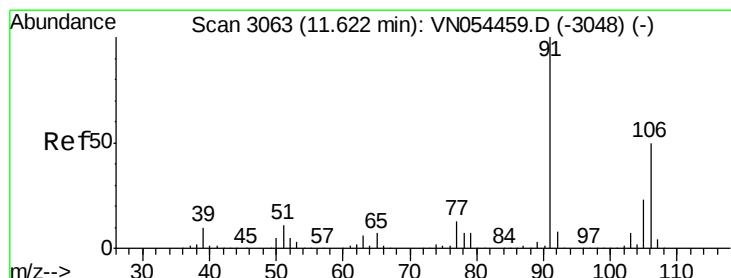
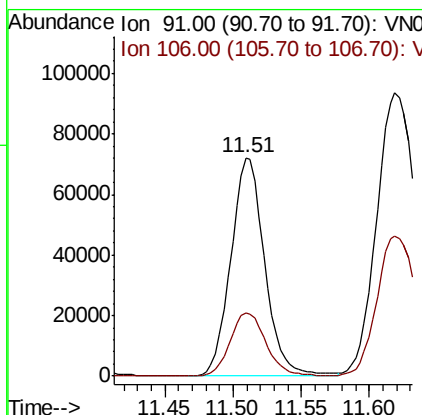
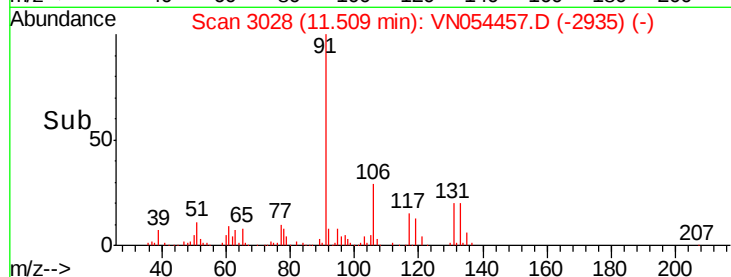
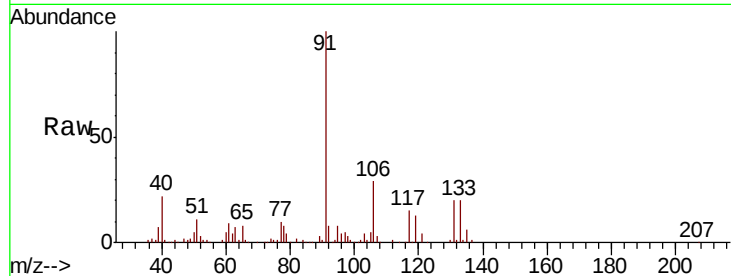
#67
Ethyl Benzene
Concen: 4.987 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 91 Resp: 124670
Ion Ratio Lower Upper
91 100
106 29.1 25.5 38.3

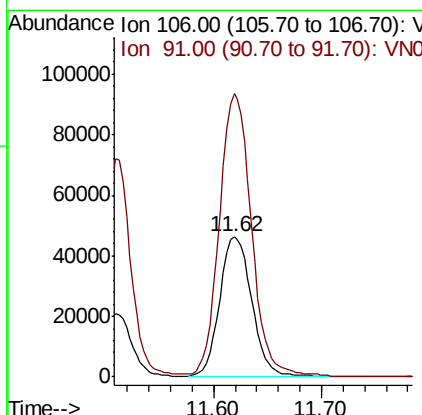
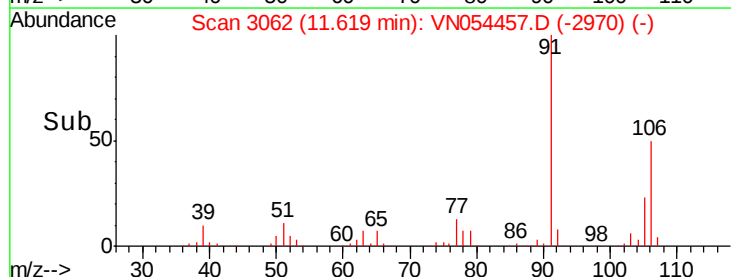
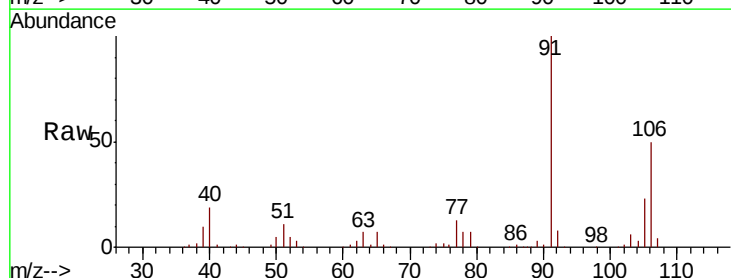
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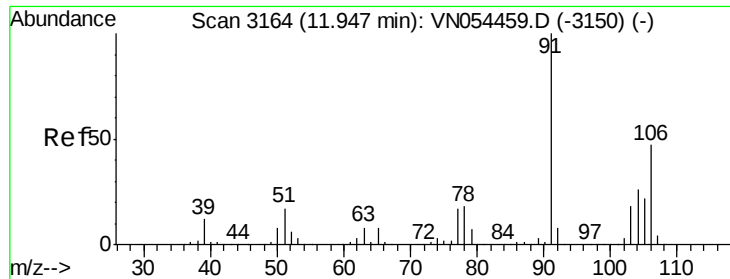
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#68
m/p-Xylenes
Concen: 9.871 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion: 106 Resp: 96452
Ion Ratio Lower Upper
106 100
91 201.8 159.4 239.2





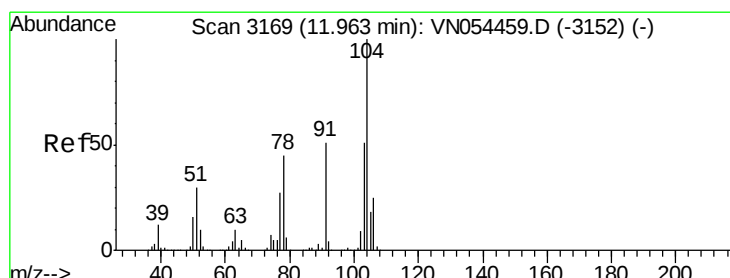
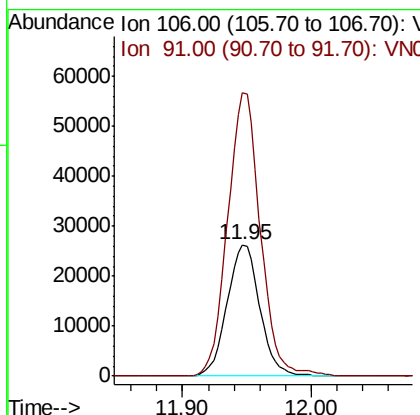
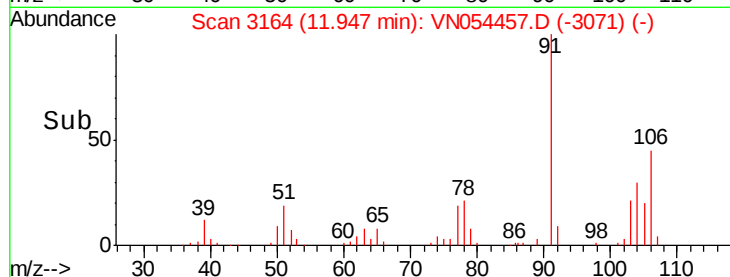
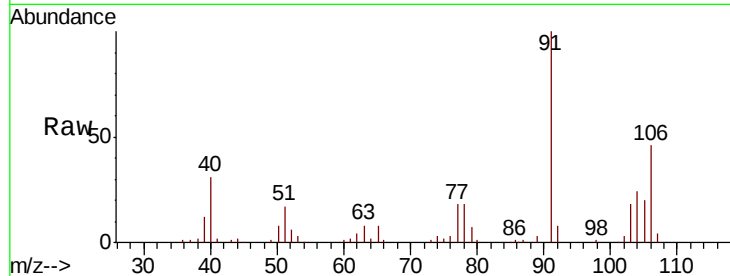
#69
o-Xylene
Concen: 4.853 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion:106 Resp: 46222
Ion Ratio Lower Upper
106 100
91 215.7 105.7 317.1

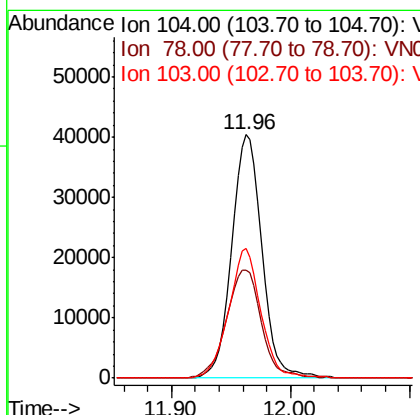
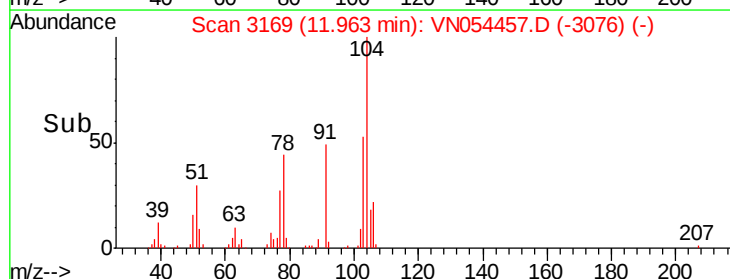
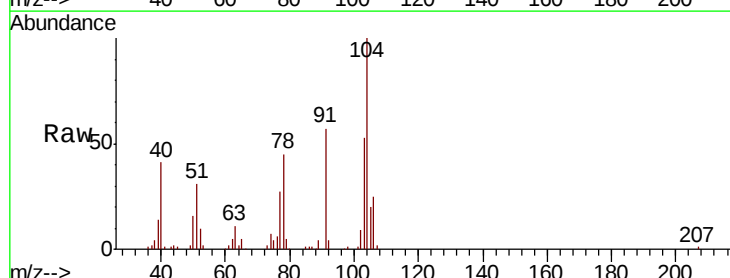
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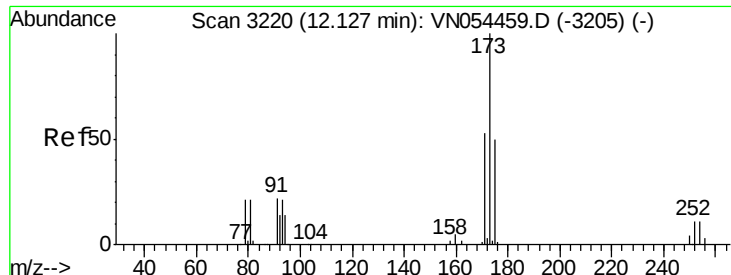
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#70
Styrene
Concen: 4.757 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion:104 Resp: 71056
Ion Ratio Lower Upper
104 100
78 51.7 38.2 57.2
103 56.3 44.4 66.6





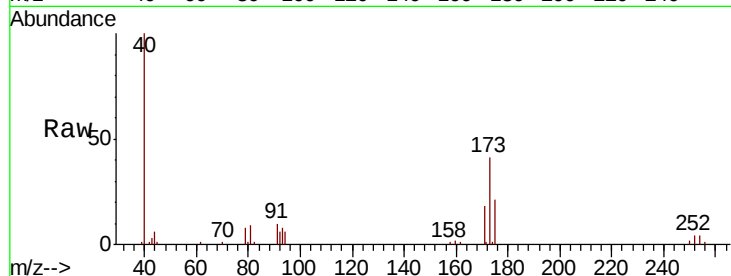
#71
Bromoform
Concen: 3.550 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

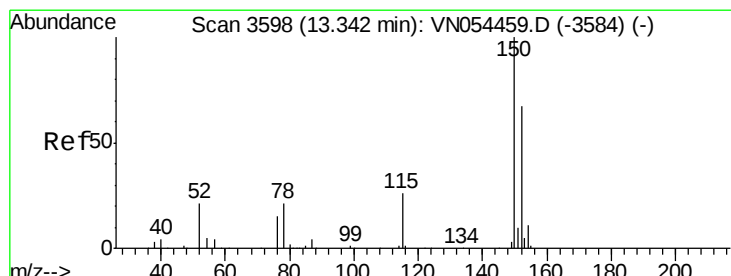
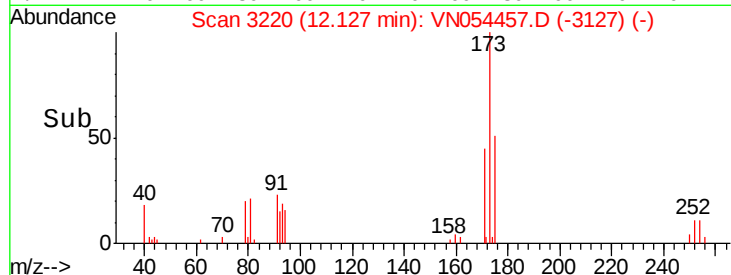
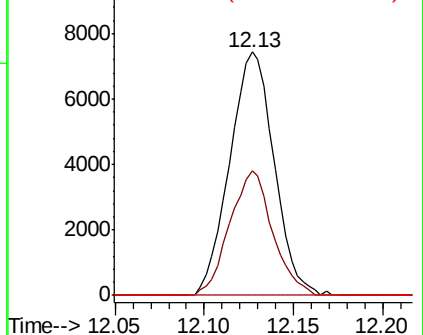
Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.4	73.2
254	0.0	0.1	0.1#

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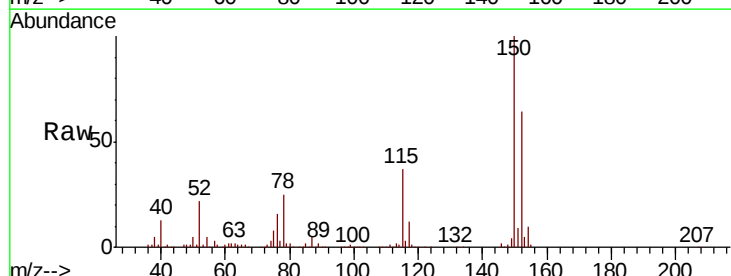


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

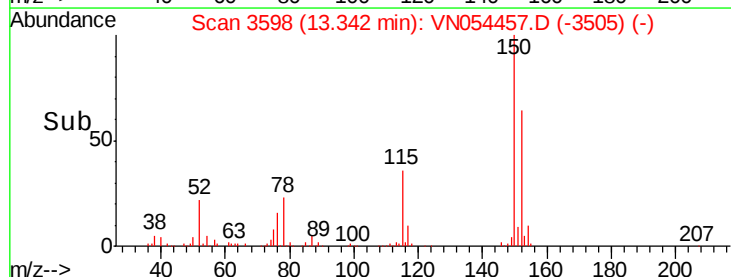
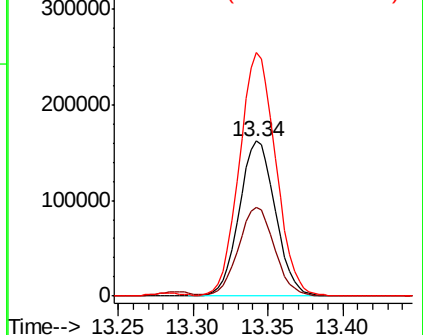


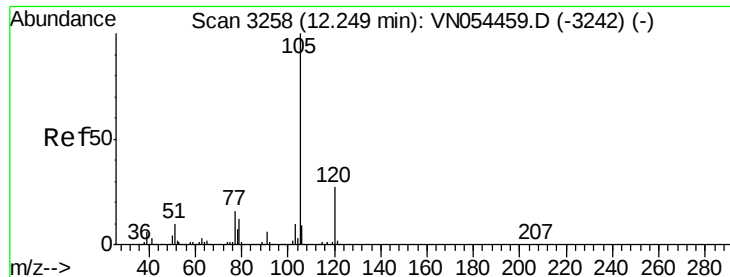
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.3	27.2	81.6
150	157.9	0.0	349.2



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





#73

Isopropylbenzene

Concen: 5.587 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 121565

Ion Ratio Lower Upper

105 100

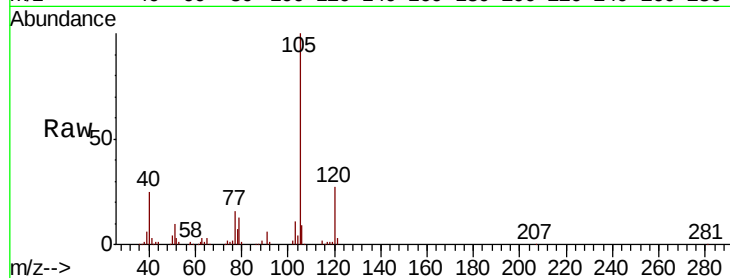
120 27.3 13.8 41.3

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

80000

60000

40000

20000

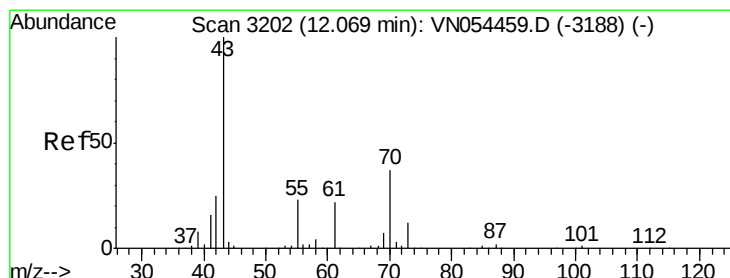
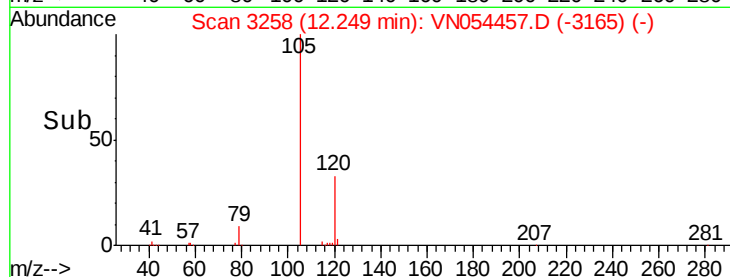
0

12.20

12.25

12.30

Time-->



#74

N-ethyl acetate

Concen: 6.121 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Tgt Ion: 43 Resp: 29565

Ion Ratio Lower Upper

43 100

70 40.4 35.4 53.0

55 25.1 19.8 29.6

61 22.8 19.8 29.6

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

25000

20000

15000

10000

5000

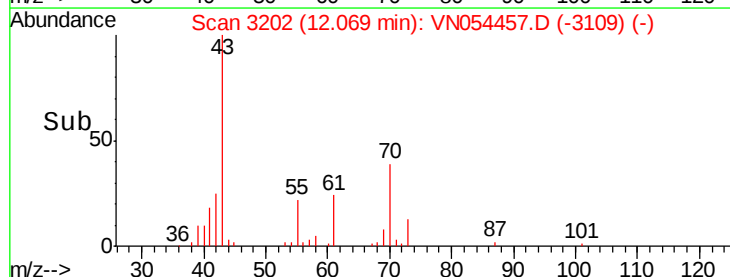
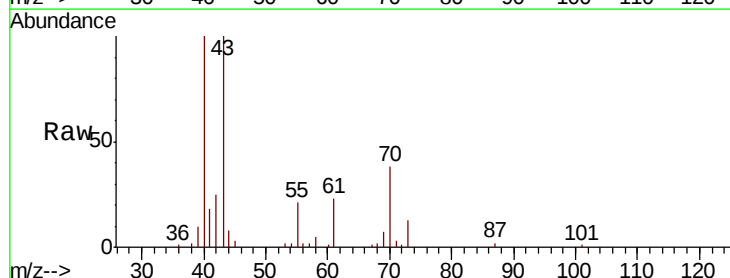
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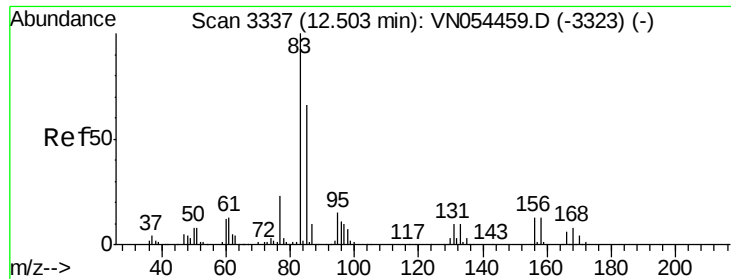
12.00

12.07

12.10

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 5.665 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

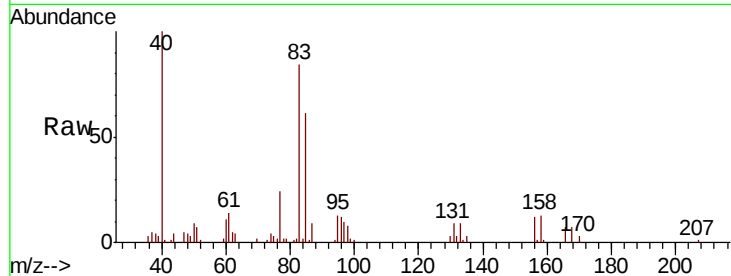
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	26263
Ion Ratio	Lower	Upper	
83	100		
131	10.3	5.8	17.4
85	68.6	32.2	96.6

Manual Integrations
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3/22/2019 3:16:04 PM



Abundance Ion 82.90 (82.60 to 83.60): VN054457.D (-3337) (-)

Ion 130.80 (130.50 to 131.50): VN054457.D (-3337) (-)

Ion 84.90 (84.60 to 85.60): VN054457.D (-3337) (-)

12.50

15000

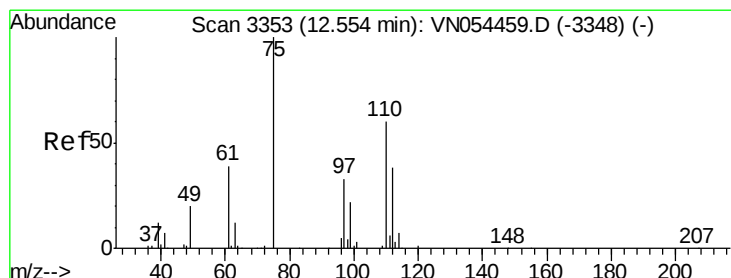
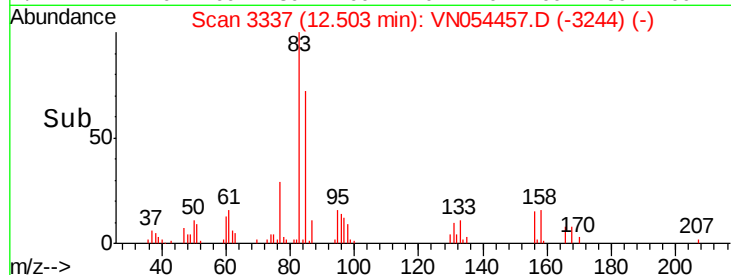
10000

5000

0

Time-->

12.45 12.50 12.55



#76

1,2,3-Trichloropropane

Concen: 5.389 ug/l m

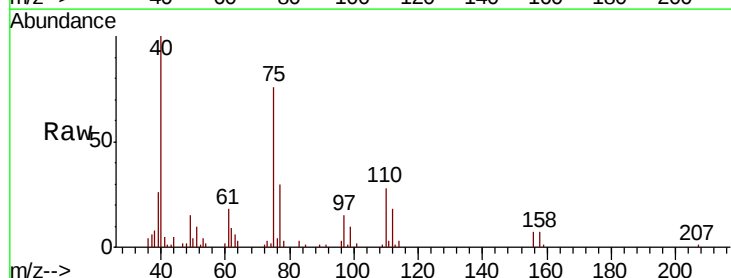
RT: 12.55 min Scan# 3353

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Tgt Ion:	75	Resp:	21555
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0



Abundance Ion 74.90 (74.60 to 75.60): VN054457.D (-3353) (-)

Ion 77.00 (76.70 to 77.70): VN054457.D (-3353) (-)

30000

25000

20000

15000

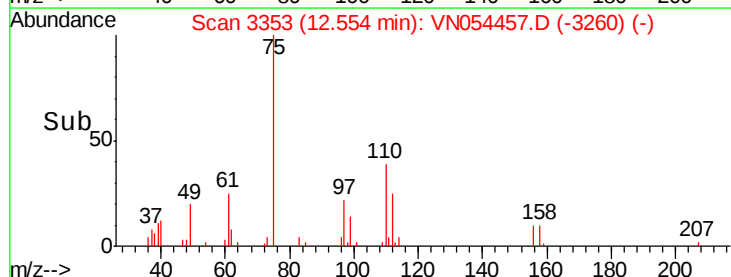
10000

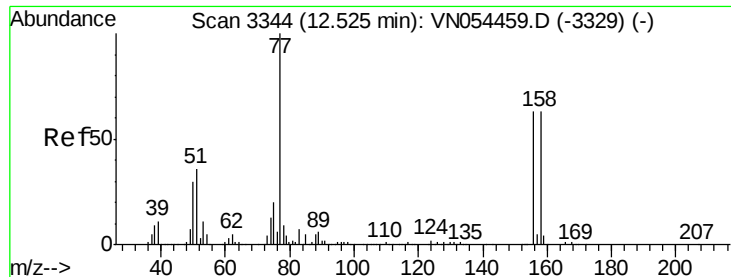
5000

0

Time-->

12.55 12.60





#77

Bromobenzene

Concen: 5.053 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

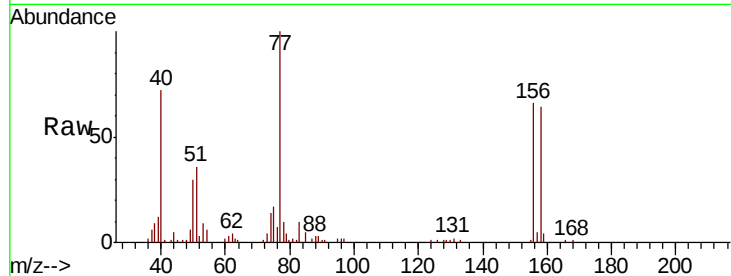
ClientSampleId :

VSTDIC005

Tot Ion:	156	Resp:	29094
Ion	Ratio	Lower	Upper
156	100		
77	184.2	81.5	244.4
158	96.7	49.0	147.2

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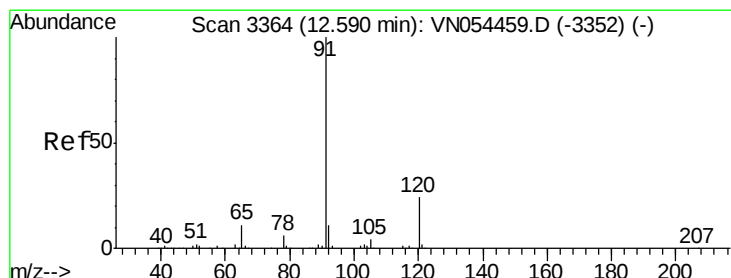
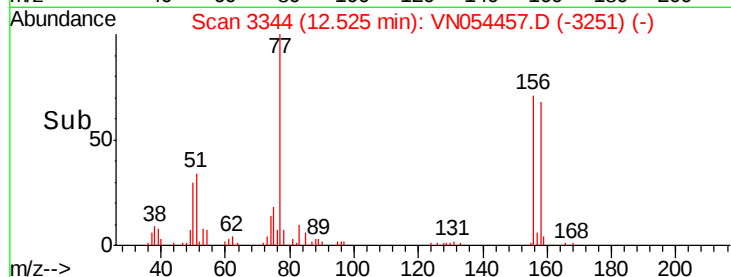
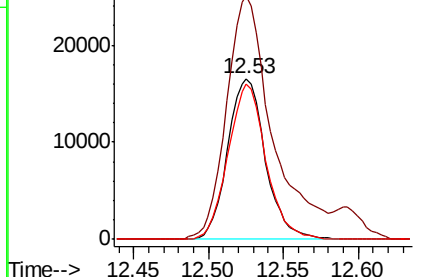
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 5.519 ug/l

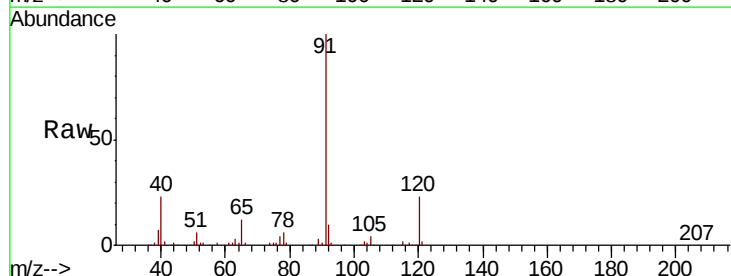
RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN054457.D

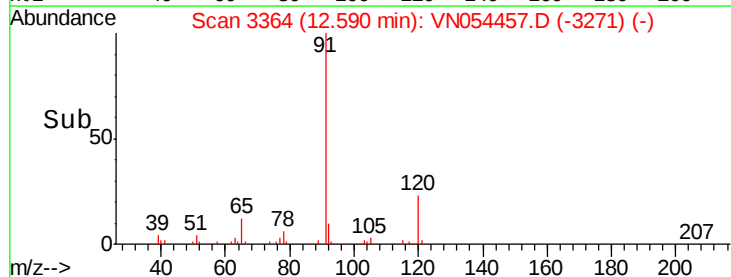
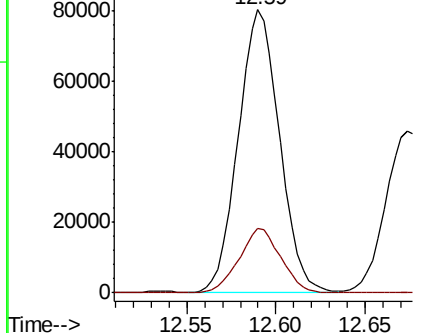
Acq: 20 Mar 2019 10:47

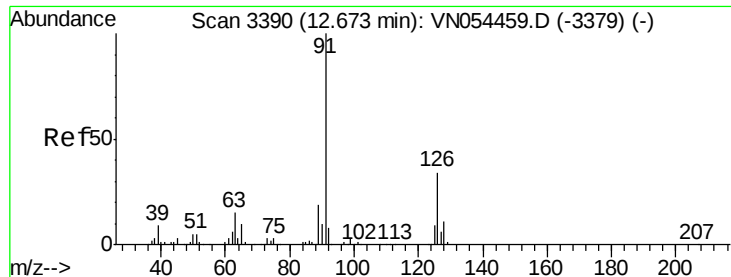
Tgt Ion:	91	Resp:	130321
Ion	Ratio	Lower	Upper
91	100		
120	23.0	12.3	36.9



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.697 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 80879

Ion Ratio Lower Upper

91 100

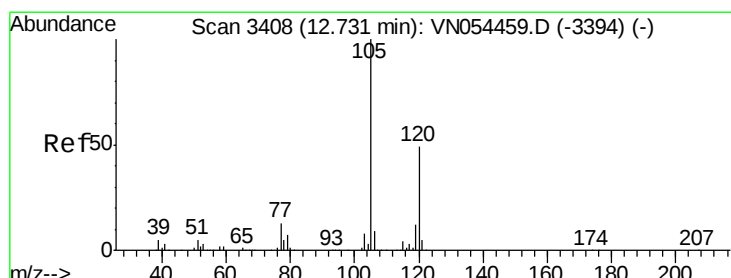
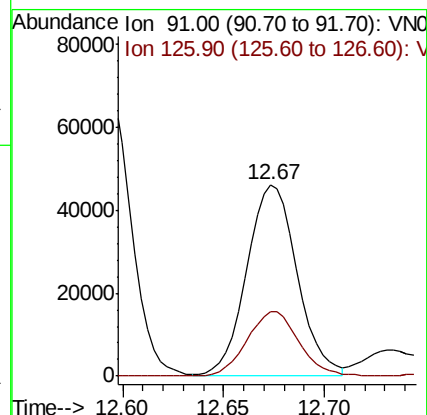
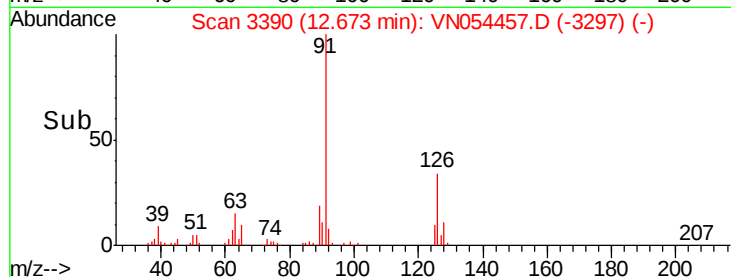
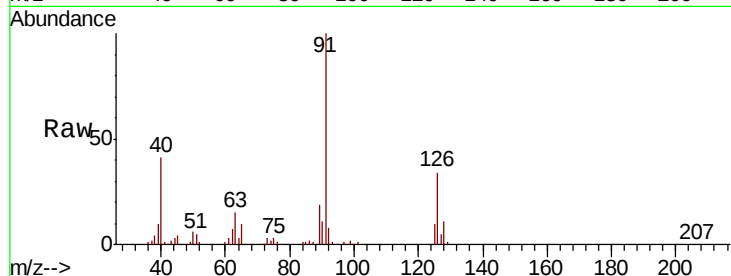
126 34.7 18.7 56.1

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 5.392 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN054457.D

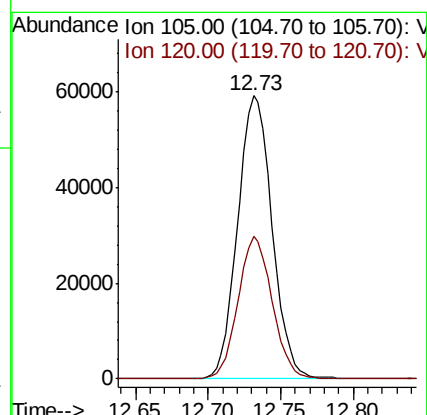
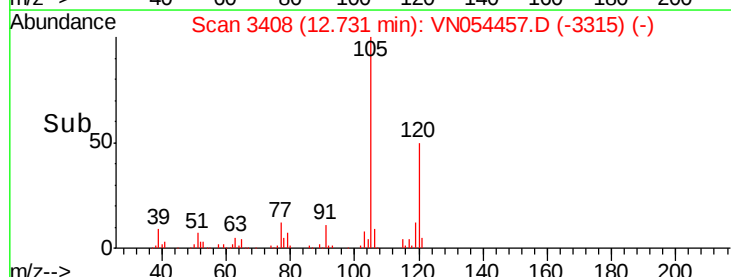
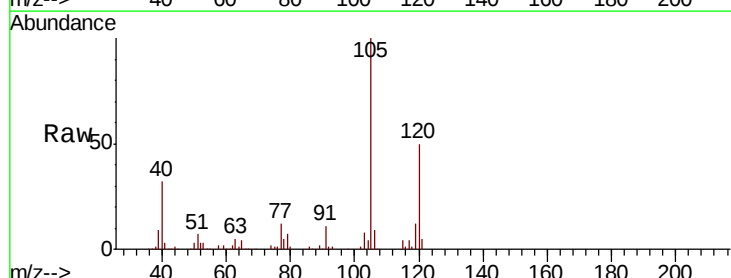
Acq: 20 Mar 2019 10:47

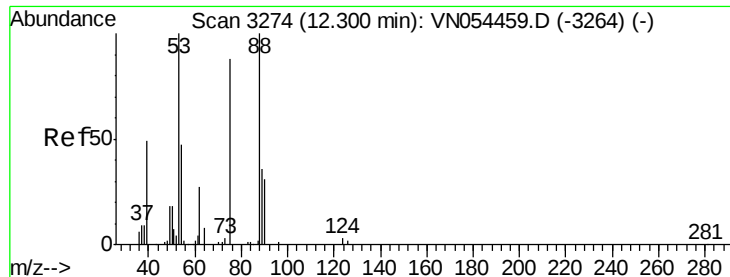
Tgt Ion: 105 Resp: 97596

Ion Ratio Lower Upper

105 100

120 49.7 25.0 75.0





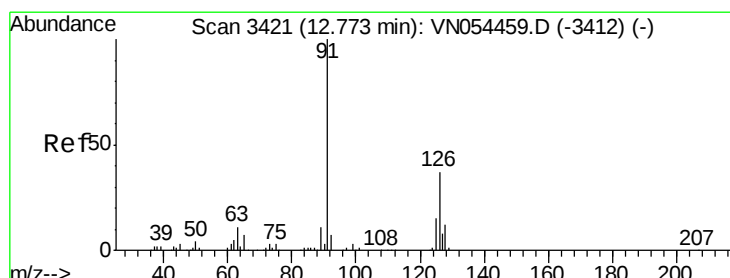
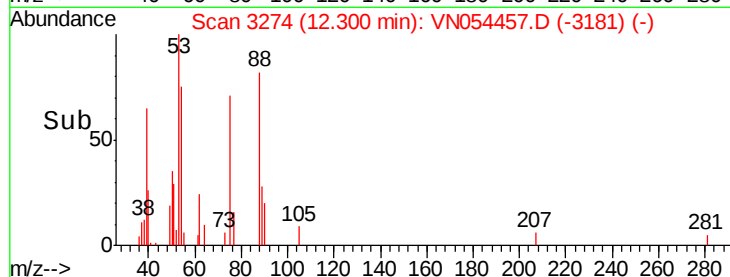
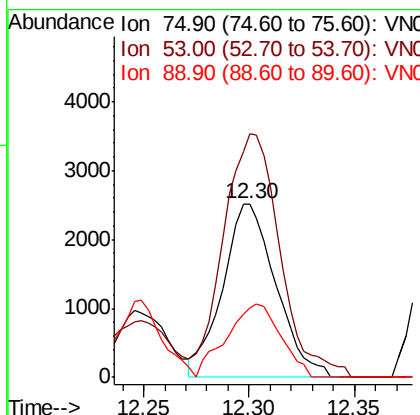
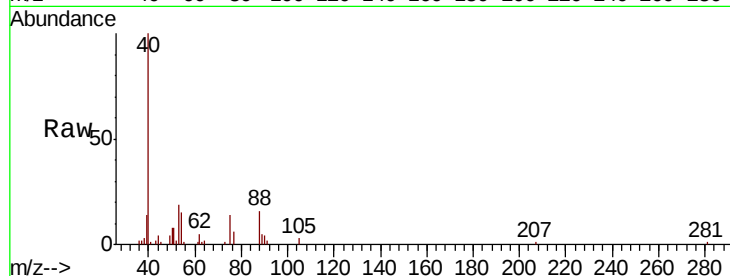
#81
trans-1,4-Dichloro-2-butene
Concen: 3.779 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	148.7	76.2	114.2#
89	42.9	39.2	58.8

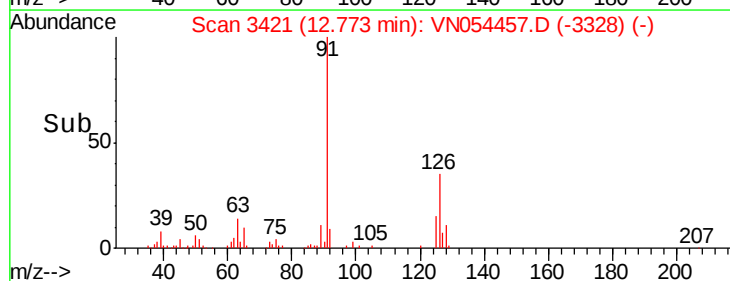
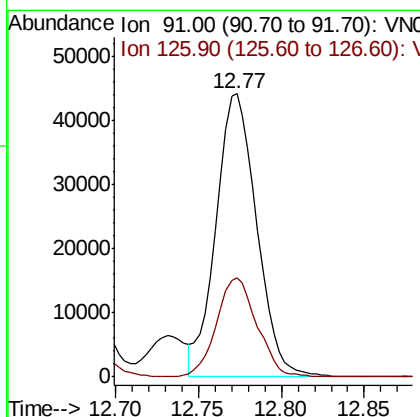
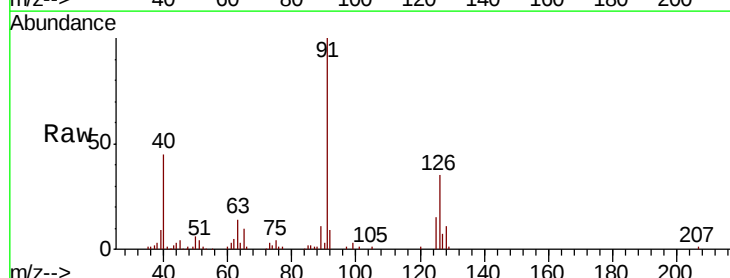
Manual Integrations
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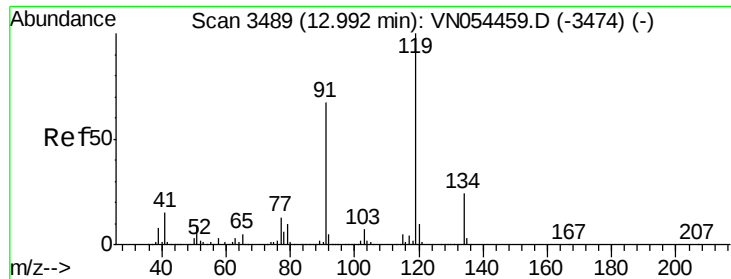
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#82
4-Chlorotoluene
Concen: 5.321 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.7	18.1	54.1





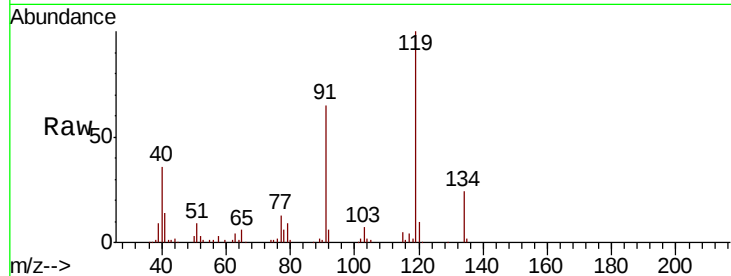
#83
tert-Butylbenzene
Concen: 5.280 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

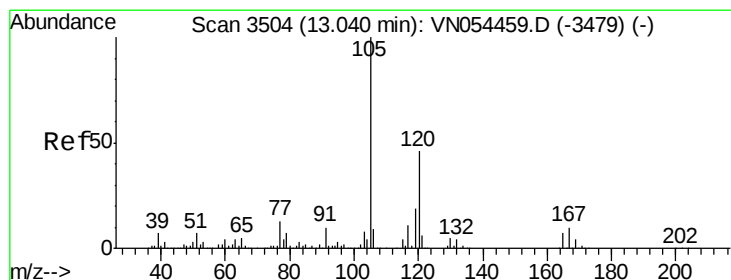
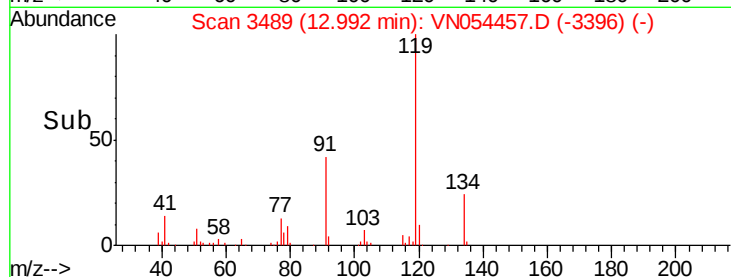
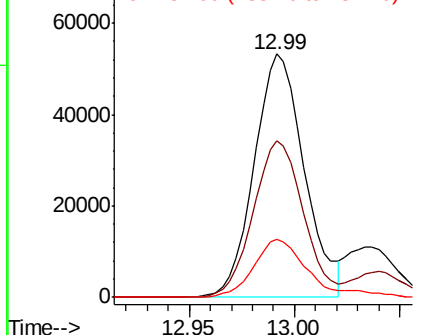
Tot Ion	Ratio	Lower	Upper
119	100		
91	64.1	30.9	92.8
134	24.4	13.2	39.6

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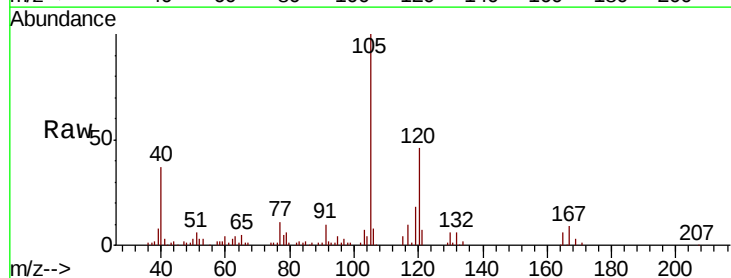


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

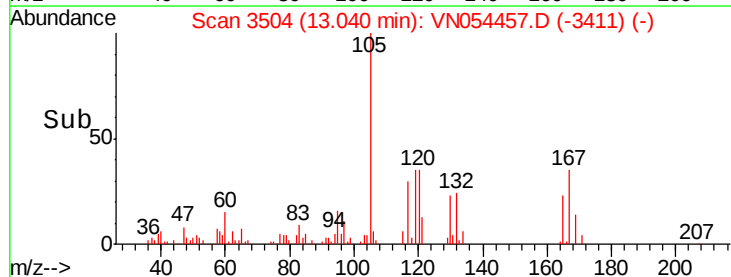
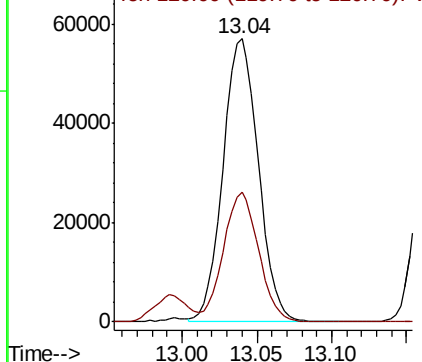


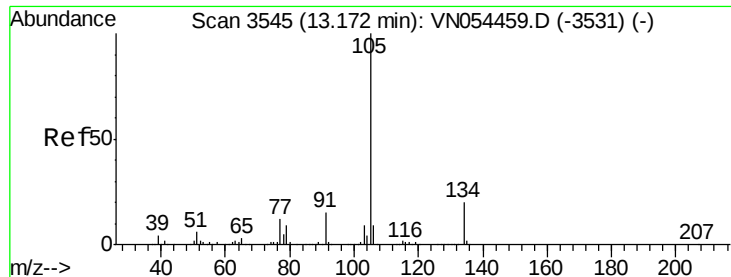
#84
1,2,4-Trimethylbenzene
Concen: 5.305 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.4	70.3



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





#85

sec-Butylbenzene

Concen: 4.862 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 105040

Ion Ratio Lower Upper

105 100

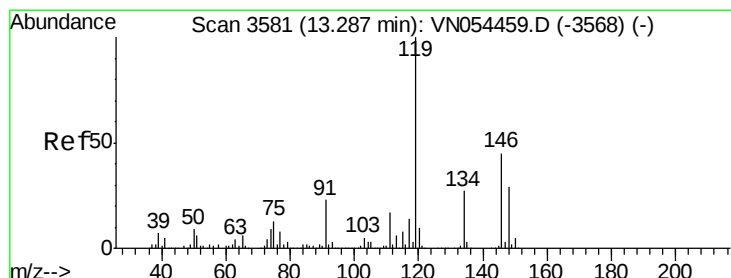
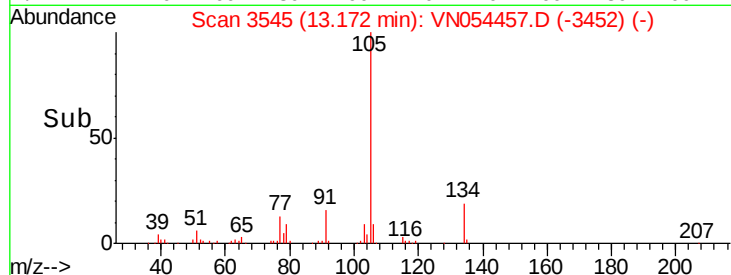
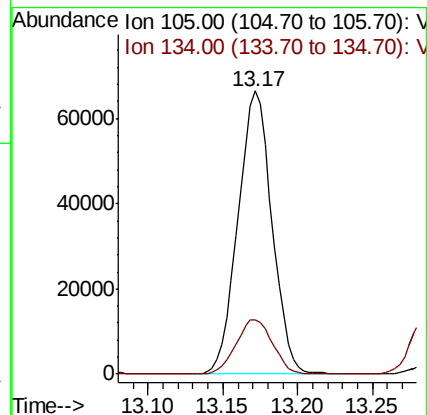
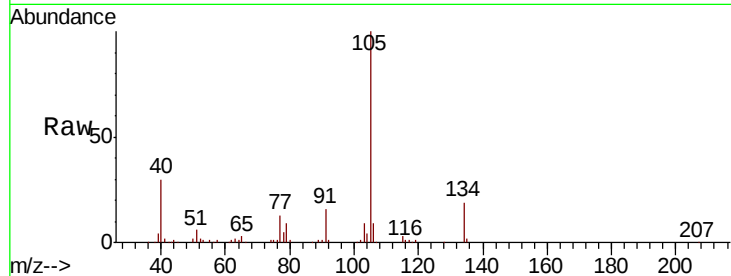
134 20.7 10.7 32.1

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#86

p-Isopropyltoluene

Concen: 4.804 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN054457.D

Acq: 20 Mar 2019 10:47

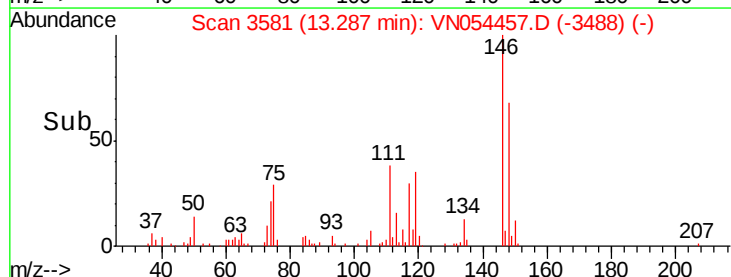
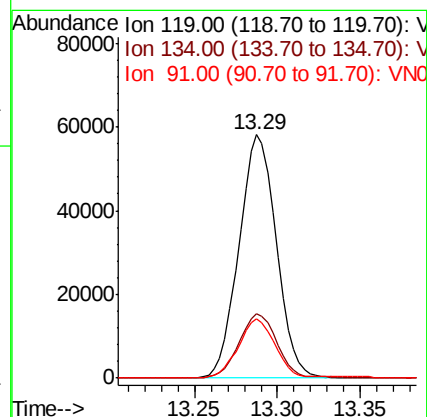
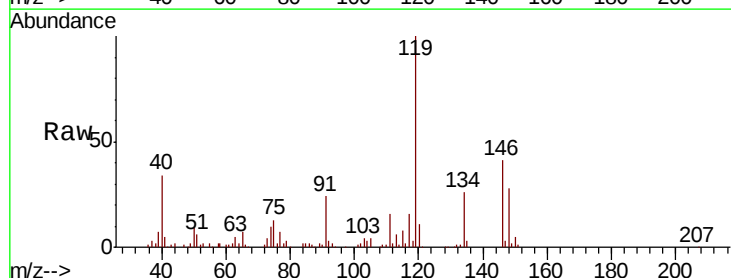
Tgt Ion:119 Resp: 91055

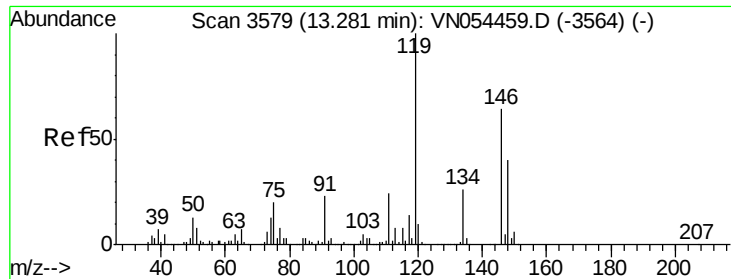
Ion Ratio Lower Upper

119 100

134 27.0 13.6 40.8

91 23.9 11.1 33.3





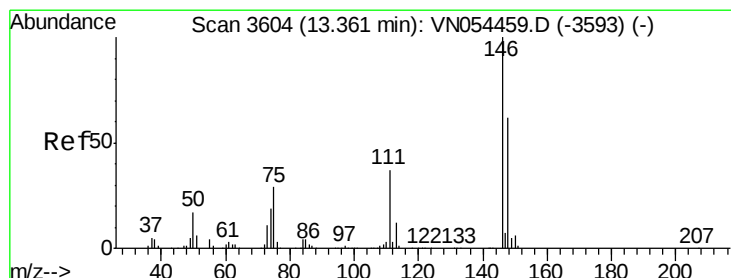
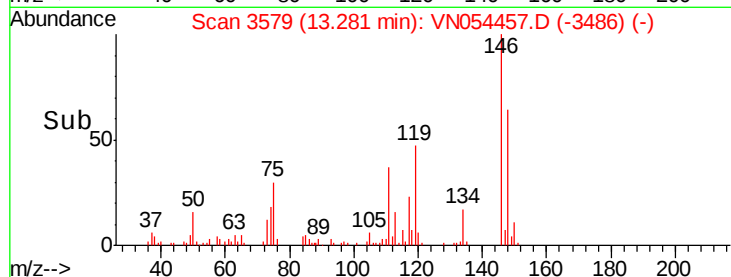
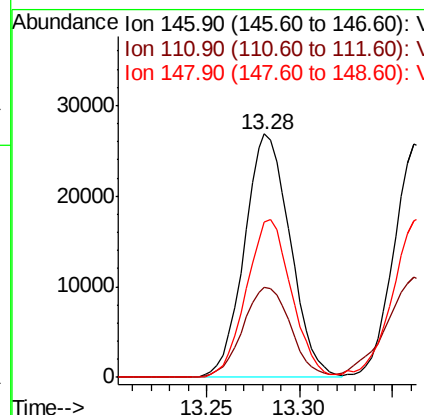
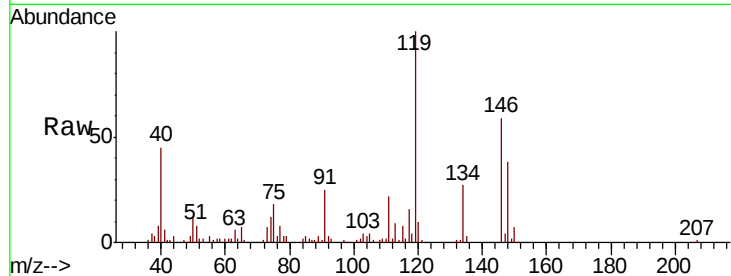
#87
 1,3-Dichlorobenzene
 Concen: 4.739 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	18.8	56.3
148	63.9	32.2	96.6

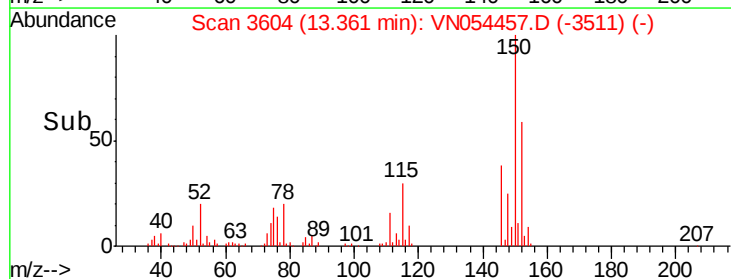
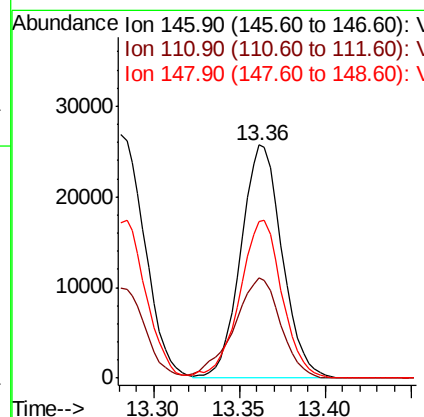
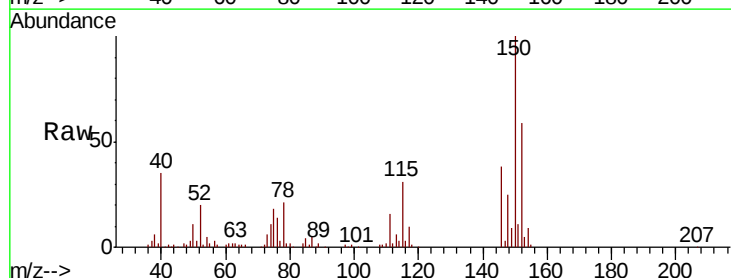
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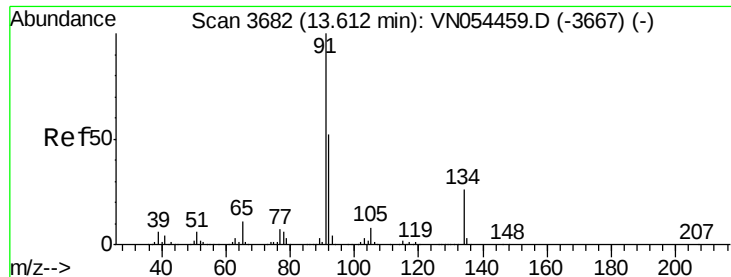
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#88
 1,4-Dichlorobenzene
 Concen: 4.509 ug/l
 RT: 13.36 min Scan# 3604
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.7	18.1	54.1
148	69.5	32.0	96.0





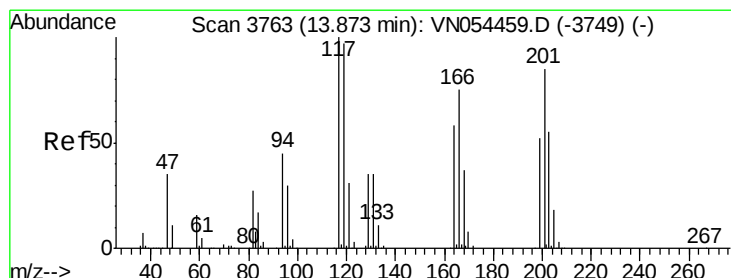
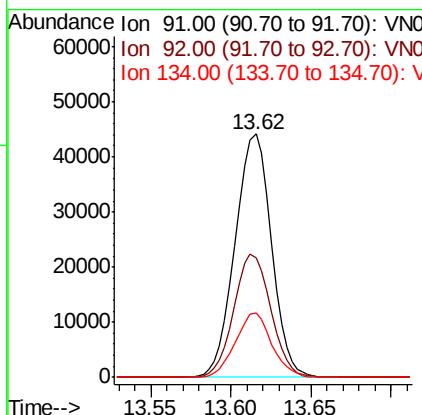
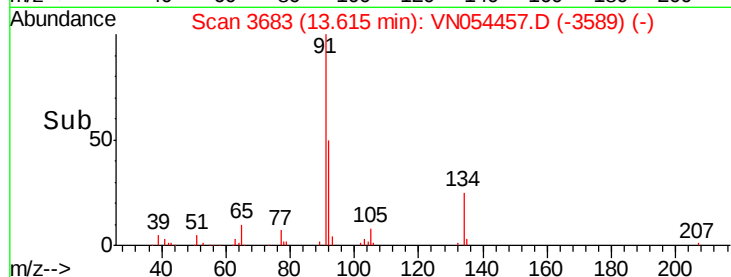
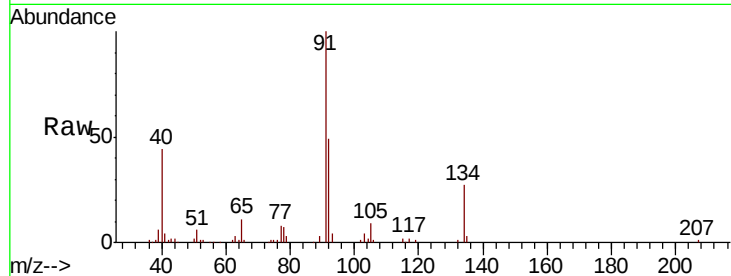
#89
n-Butylbenzene
Concen: 4.736 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.6	26.2	78.6
134	26.5	14.3	42.9

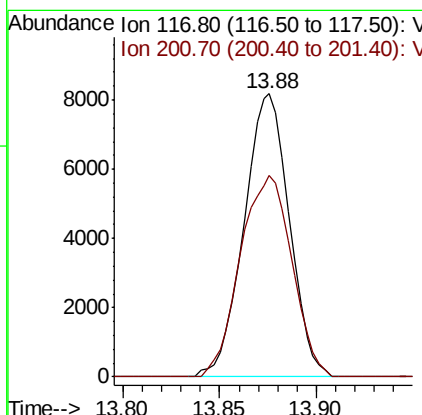
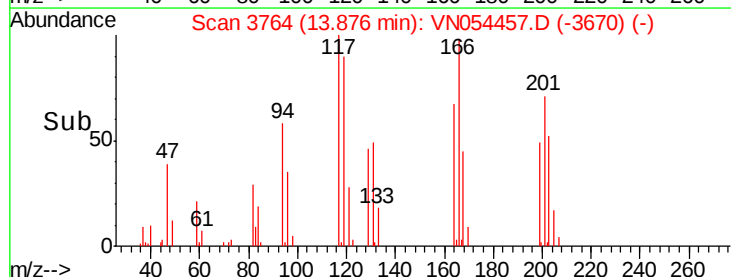
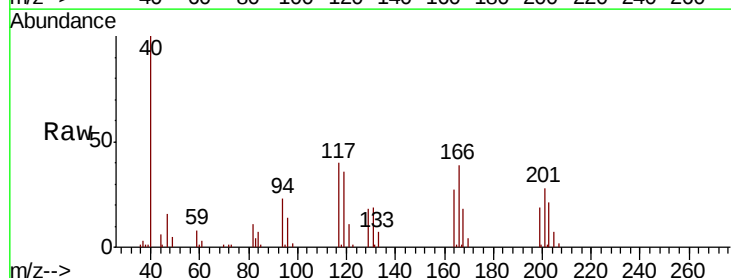
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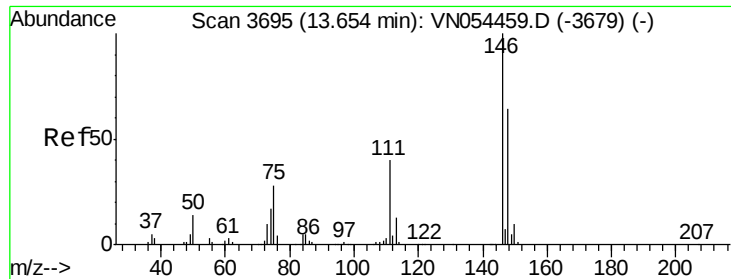
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#90
Hexachloroethane
Concen: 4.243 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
117	100		
201	81.0	48.1	144.4





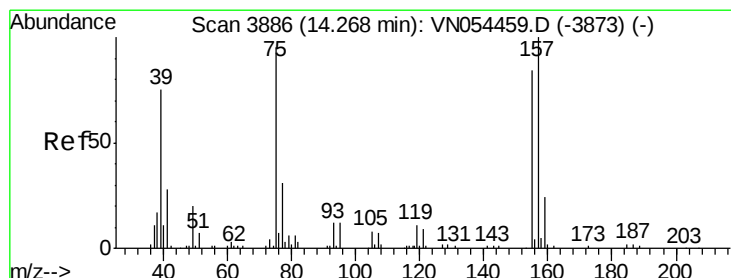
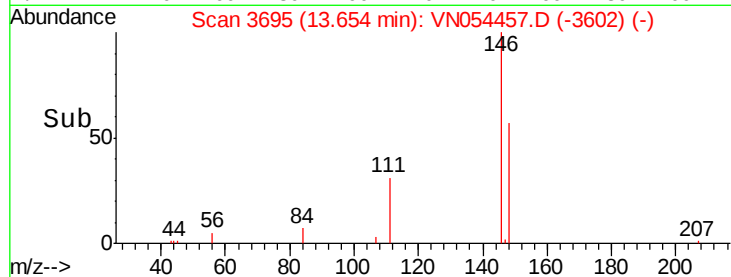
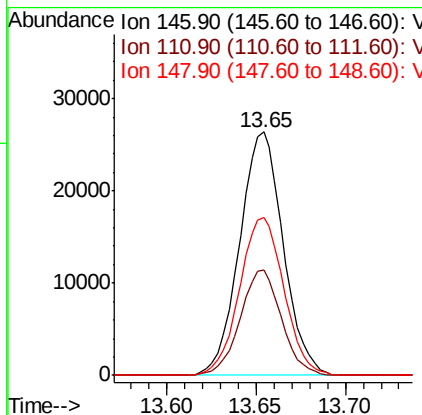
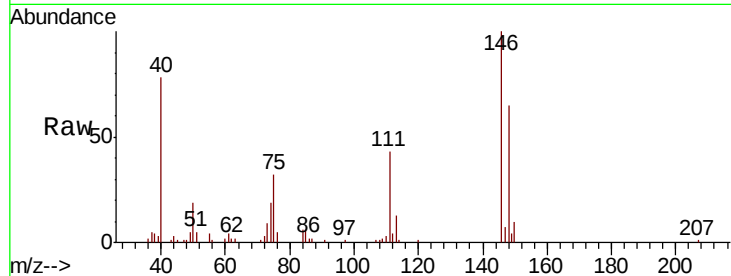
#91
 1,2-Dichlorobenzene
 Concen: 4.746 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.9	19.1	57.3
148	65.9	32.4	97.0

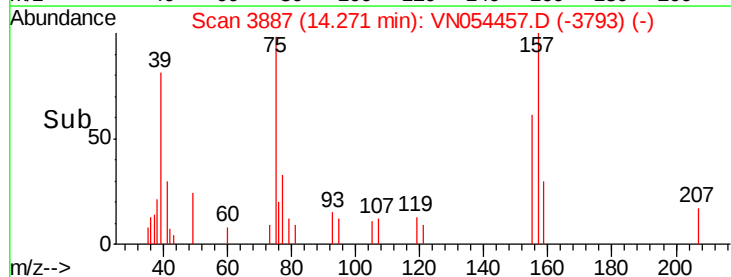
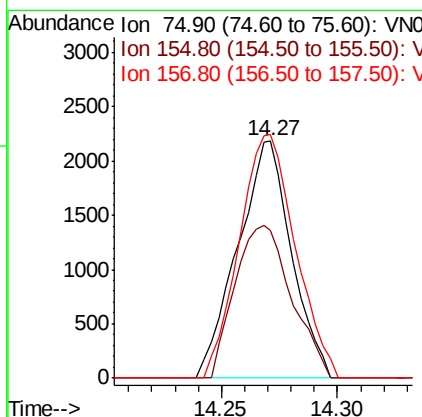
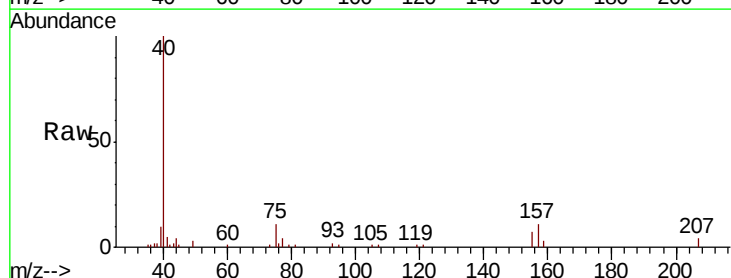
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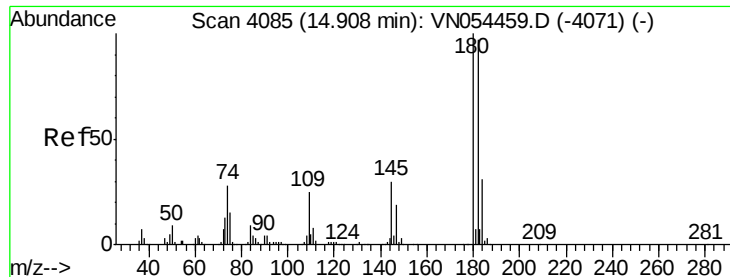
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.895 ug/l
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
75	100		
155	67.9	50.1	150.3
157	107.0	63.1	189.3





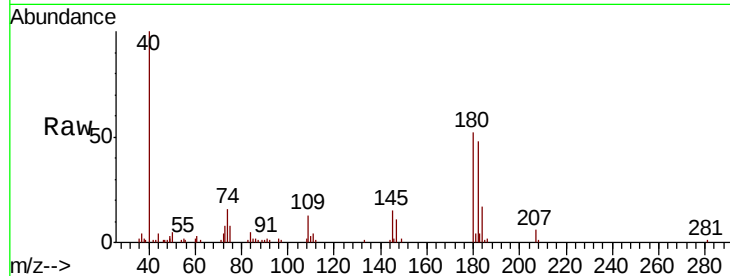
#93
 1,2,4-Trichlorobenzene
 Concen: 3.453 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

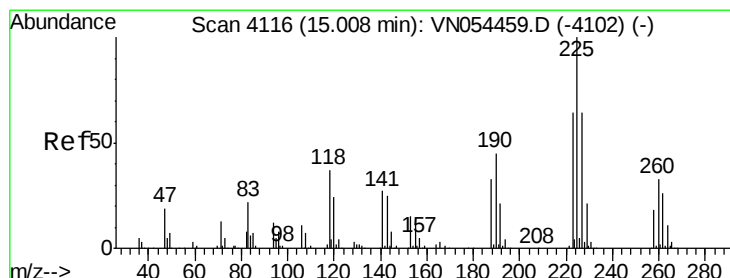
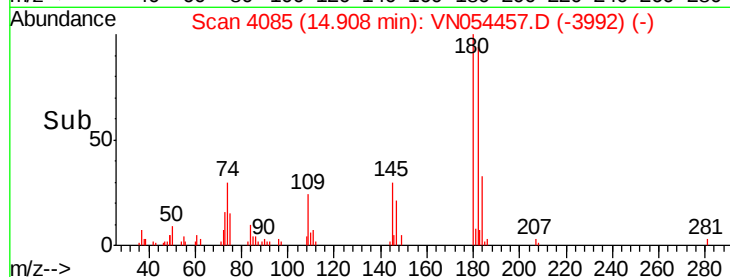
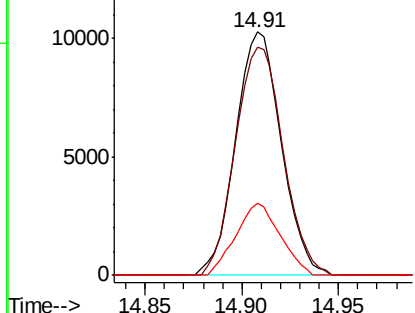
Tot Ion	Ratio	Resp	Lower	Upper
180	100	16925		
182	97.7	48.0	144.2	
145	28.8	14.2	42.8	

Manual Integrations
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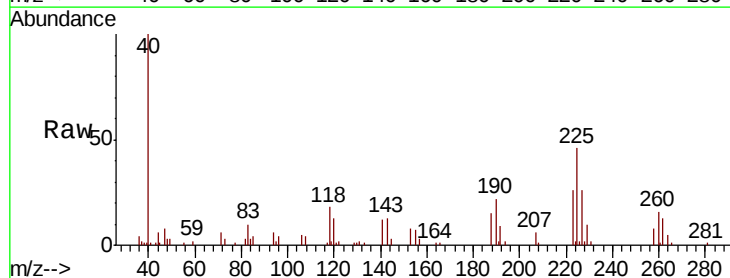


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

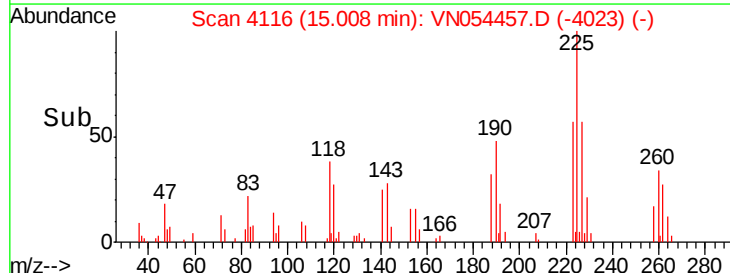
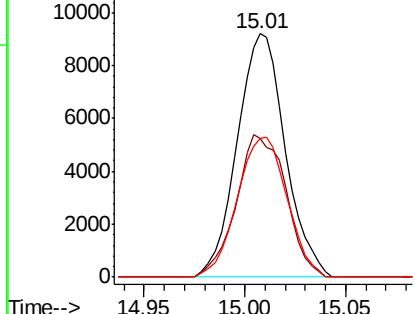


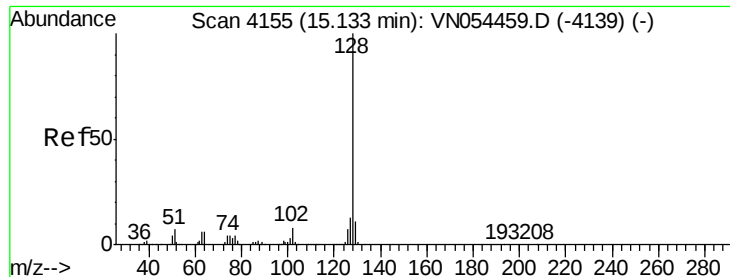
#94
 Hexachlorobutadiene
 Concen: 4.239 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN054457.D
 Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	15316		
223	60.5	31.1	93.5	
227	59.5	31.9	95.9	



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





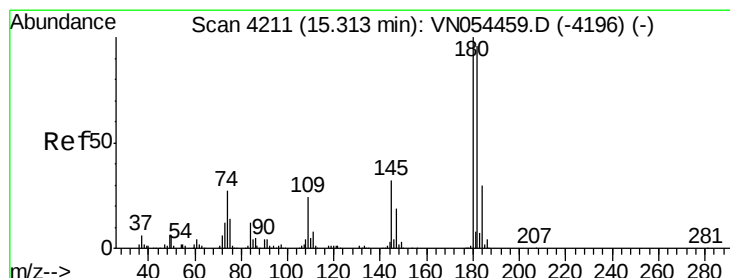
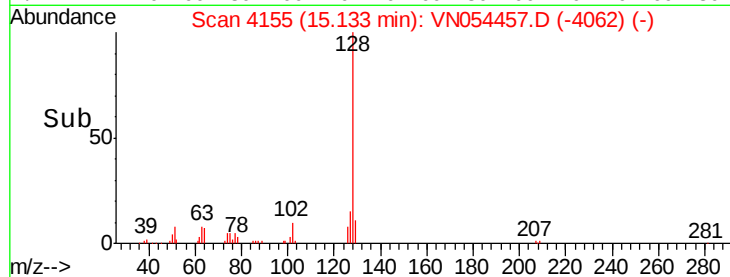
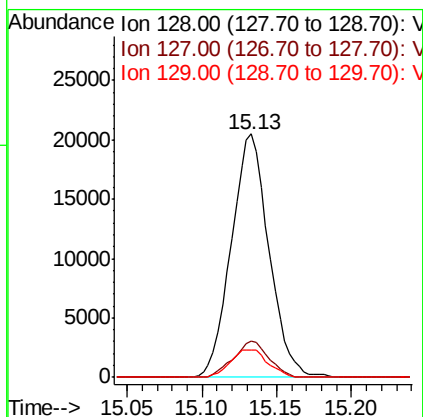
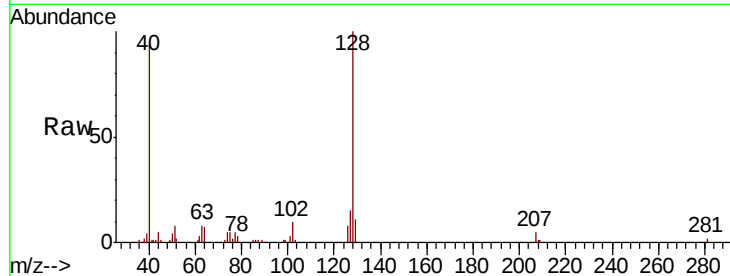
#95
Naphthalene
Concen: 3.562 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.1	15.1
129	11.2	8.7	13.1

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#96
1,2,3-Trichlorobenzene
Concen: 3.574 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. -0.00 min
Lab File: VN054457.D
Acq: 20 Mar 2019 10:47

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.5	47.5	142.6
145	30.3	14.8	44.3

