

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061318\
 Data File : VN049212.D
 Acq On : 13 Jun 2018 20:35
 Operator : MD\SY
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

apatel
 6/14/2018 5:07:12 PM

Quant Time: Jun 14 04:37:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061318W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 14 04:25:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	831566	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1361343	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1237550	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	450872	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	73304	5.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.00%	
35) Dibromofluoromethane	7.59	113	57501	5.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.24%	
50) Toluene-d8	10.09	98	216520	4.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.98%	
62) 4-Bromofluorobenzene	12.40	95	63593	4.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	64680	5.29	ug/l	94
3) Chloromethane	2.06	50	62713	5.01	ug/l	100
4) Vinyl Chloride	2.18	62	64322	5.14	ug/l	99
5) Bromomethane	2.56	94	36805	5.36	ug/l	99
6) Chloroethane	2.70	64	44948	5.59	ug/l	96
7) Trichlorofluoromethane	3.02	101	91540	5.35	ug/l	98
8) Diethyl Ether	3.41	74	35225	5.90	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.75	101	60506	5.82	ug/l	96
10) Methyl Iodide	3.95	142	42508	4.27	ug/l	98
11) Tert butyl alcohol	4.80	59	19726	26.29	ug/l #	84
12) 1,1-Dichloroethene	3.73	96	55909	5.85	ug/l	95
13) Acrolein	3.61	56	39500	57.12	ug/l	96
14) Allyl chloride	4.32	41	100839	5.52	ug/l	89
15) Acrylonitrile	5.00	53	104125	25.80	ug/l #	93
16) Acetone	3.82	43	84169	26.88	ug/l	93
17) Carbon Disulfide	4.05	76	188295	5.95	ug/l	98
18) Methyl Acetate	4.33	43	67675	6.70	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	139992	4.94	ug/l	99
20) Methylene Chloride	4.55	84	70931	6.09	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	60670	5.57	ug/l	98
22) Diisopropyl ether	5.95	45	200024	5.15	ug/l	92
23) Vinyl Acetate	5.90	43	611435	23.10	ug/l	99
24) 1,1-Dichloroethane	5.85	63	124261	5.61	ug/l	98
25) 2-Butanone	6.85	43	117667	24.78	ug/l	95
26) 2,2-Dichloropropane	6.82	77	91273	5.21	ug/l	97
27) cis-1,2-Dichloroethene	6.83	96	66686	5.47	ug/l	97
28) Bromochloromethane	7.20	49	57231	5.93	ug/l	96
29) Tetrahydrofuran	7.22	42	69291	22.75	ug/l	100
30) Chloroform	7.37	83	118728	5.52	ug/l	97
31) Cyclohexane	7.65	56	112381	5.51	ug/l #	89
32) 1,1,1-Trichloroethane	7.57	97	100133	5.45	ug/l	99
36) 1,1-Dichloropropene	7.80	75	85207	5.00	ug/l	98
37) Ethyl Acetate	6.94	43	55450	5.08	ug/l #	93
38) Carbon Tetrachloride	7.77	117	85006	5.08	ug/l	99

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 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
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Quant Time: Jun 14 04:37:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061318W.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.08	83	82590	4.64	ug/l	92
40) Benzene	8.04	78	265568	5.20	ug/l	98
41) Methacrylonitrile	7.19	41	28456m	4.73	ug/l	
42) 1,2-Dichloroethane	8.12	62	85686	5.16	ug/l	97
43) Isopropyl Acetate	8.17	43	103201	4.95	ug/l #	94
44) Trichloroethene	8.84	130	66516	5.32	ug/l	96
45) 1,2-Dichloropropane	9.12	63	72626	5.20	ug/l	97
46) Dibromomethane	9.21	93	40184	5.16	ug/l	96
47) Bromodichloromethane	9.41	83	90777	5.26	ug/l	98
48) Methyl methacrylate	9.20	41	44971	4.52	ug/l	96
49) 1,4-Dioxane	9.21	88	10672	95.59	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	254745	23.14	ug/l	99
52) Toluene	10.16	92	148351	4.85	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	78724	4.57	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	91258	4.56	ug/l	93
55) 1,1,2-Trichloroethane	10.56	97	56893	5.22	ug/l	99
56) Ethyl methacrylate	10.43	69	58997	4.17	ug/l	95
57) 1,3-Dichloropropane	10.71	76	95112	5.01	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	90715	19.38	ug/l	98
59) 2-Hexanone	10.75	43	151061	21.32	ug/l	99
60) Dibromochloromethane	10.90	129	59125	4.86	ug/l	99
61) 1,2-Dibromoethane	11.01	107	50214	4.92	ug/l	98
64) Tetrachloroethene	10.63	164	65897	5.51	ug/l	96
65) Chlorobenzene	11.44	112	164963	5.18	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	62634	5.27	ug/l	99
67) Ethyl Benzene	11.51	91	261174	4.61	ug/l	97
68) m/p-Xylenes	11.62	106	186680	8.87	ug/l	97
69) o-Xylene	11.95	106	92509	4.57	ug/l	95
70) Styrene	11.97	104	131925	4.06	ug/l	98
71) Bromoform	12.13	173	37562	4.83	ug/l #	99
73) Isopropylbenzene	12.25	105	239532	5.73	ug/l	99
74) N-amyl acetate	12.07	43	61383	4.94	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.51	83	66846	6.55	ug/l	96
76) 1,2,3-Trichloropropane	12.55	75	54047m	6.23	ug/l	
77) Bromobenzene	12.53	156	57704	5.88	ug/l	96
78) n-propylbenzene	12.59	91	245524	5.14	ug/l	99
79) 2-Chlorotoluene	12.68	91	167608	5.78	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	179141	5.36	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	14604	5.36	ug/l	97
82) 4-Chlorotoluene	12.78	91	153465	5.38	ug/l	99
83) tert-Butylbenzene	13.00	119	152631	5.42	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	169713	5.03	ug/l	97
85) sec-Butylbenzene	13.17	105	201809	5.27	ug/l	99
86) p-Isopropyltoluene	13.29	119	157673	4.95	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	87396	5.17	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	85273	5.21	ug/l	95
89) n-Butylbenzene	13.62	91	109961	4.27	ug/l	98
90) Hexachloroethane	13.88	117	41604	6.10	ug/l	94
91) 1,2-Dichlorobenzene	13.66	146	86224	5.31	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.27	75	7936	5.39	ug/l	98

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

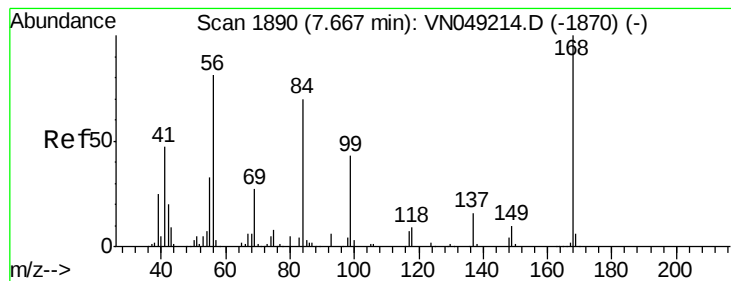
Manual Integrations
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061318W.M
Quant Title : SW846 8260
QLast Update : Thu Jun 14 04:25:48 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	21001	3.27	ug/l	96
94) Hexachlorobutadiene	15.01	225	30784	6.28	ug/l	94
95) Naphthalene	15.14	128	47817	3.39	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	23133	3.53	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 831566

Ion Ratio Lower Upper

168 100

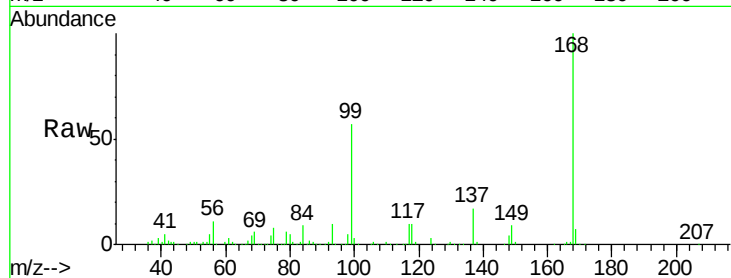
99 56.6 45.8 68.6

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

300000

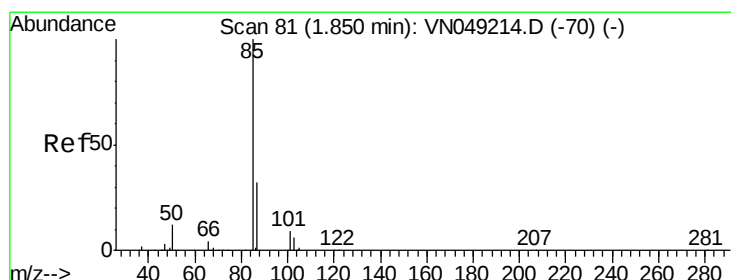
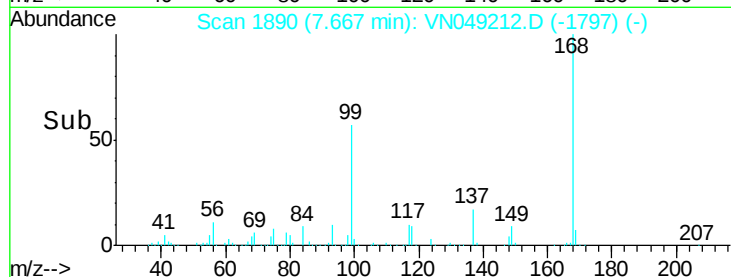
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 5.29 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN049212.D

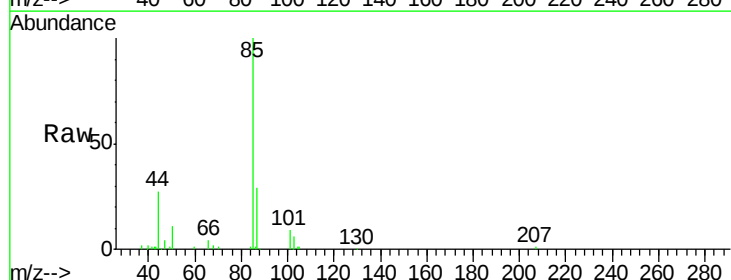
Acq: 13 Jun 2018 20:35

Tgt Ion: 85 Resp: 64680

Ion Ratio Lower Upper

85 100

87 29.2 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.85

50000

40000

30000

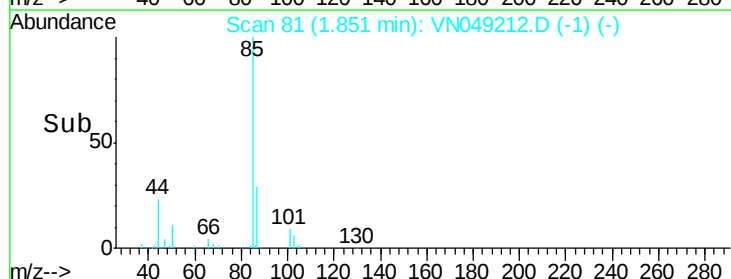
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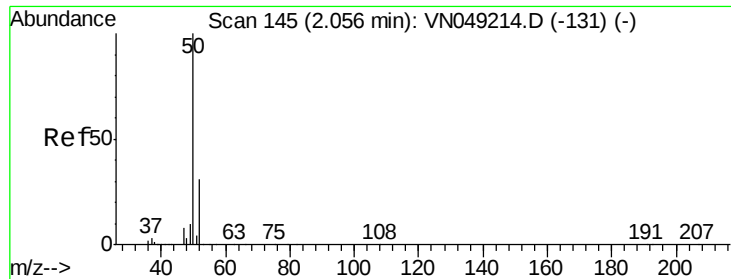
10000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 5.01 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 62713

Ion Ratio Lower Upper

50 100

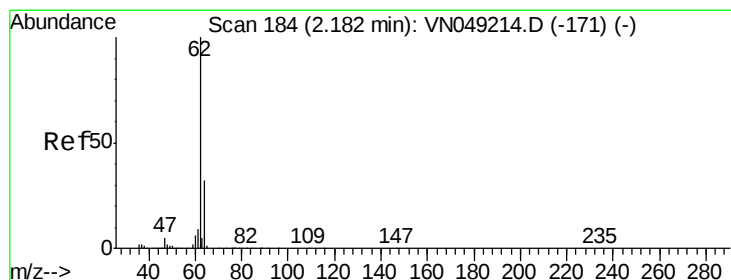
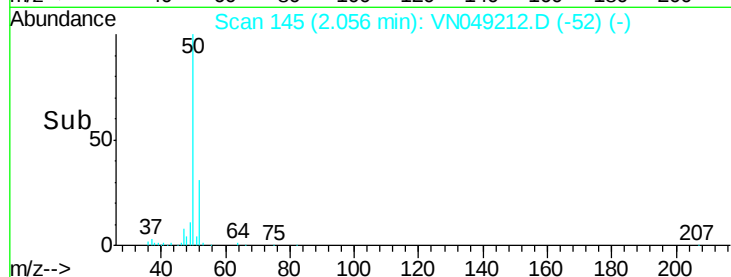
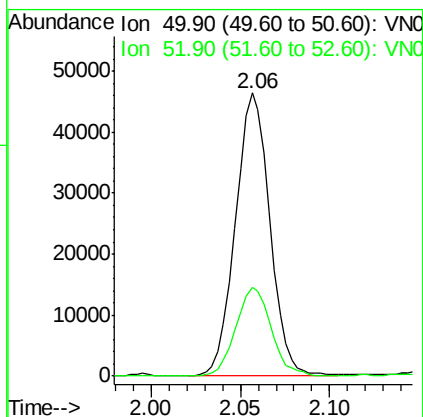
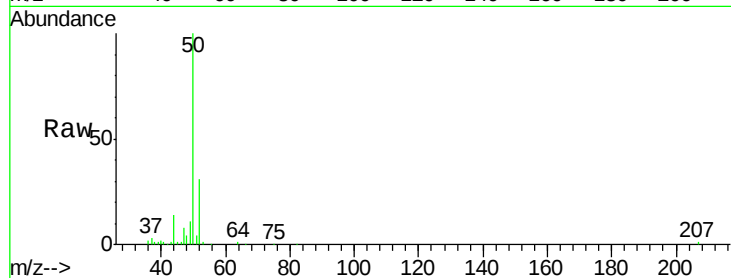
52 31.3 25.2 37.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 5.14 ug/l

RT: 2.18 min Scan# 184

Delta R.T. 0.00 min

Lab File: VN049212.D

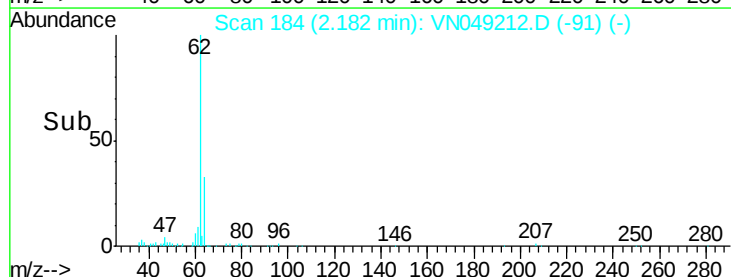
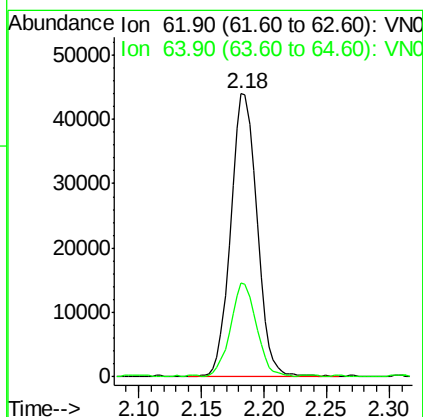
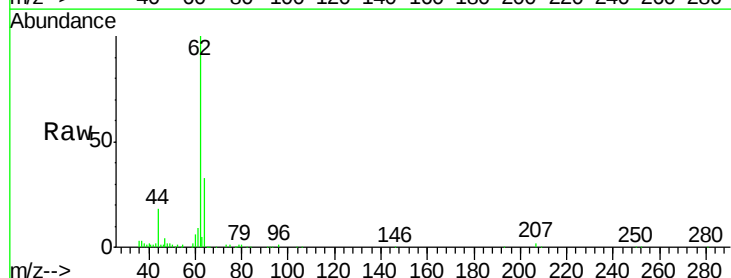
Acq: 13 Jun 2018 20:35

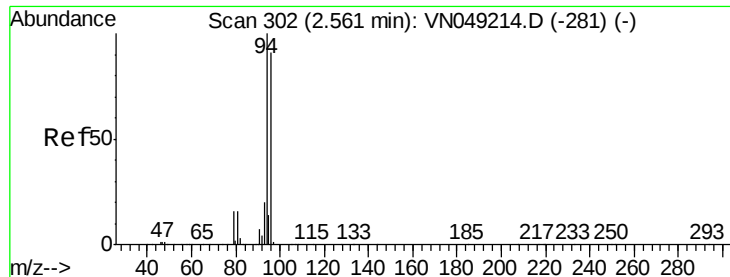
Tgt Ion: 62 Resp: 64322

Ion Ratio Lower Upper

62 100

64 32.8 25.7 38.5





#5

Bromomethane

Concen: 5.36 ug/l

RT: 2.56 min Scan# 302

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 94 Resp: 36805

Ion Ratio Lower Upper

94 100

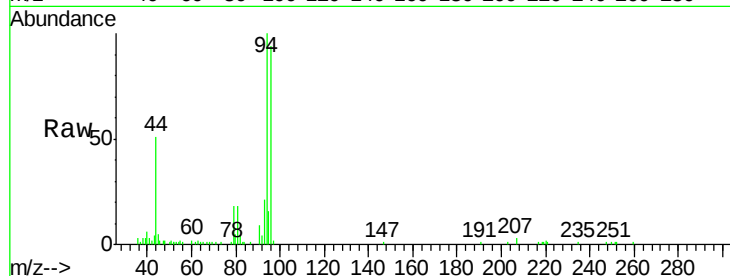
96 91.9 72.8 109.2

Manual Integrations

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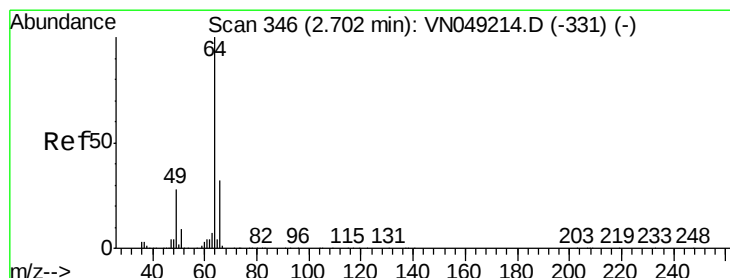
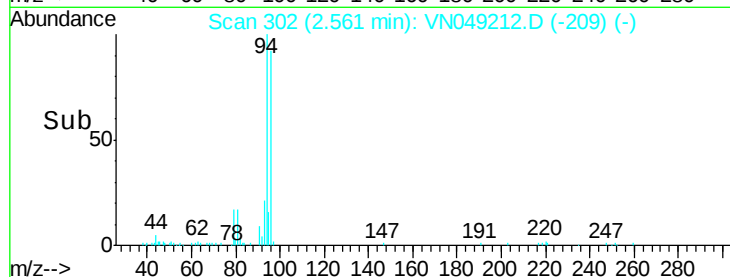
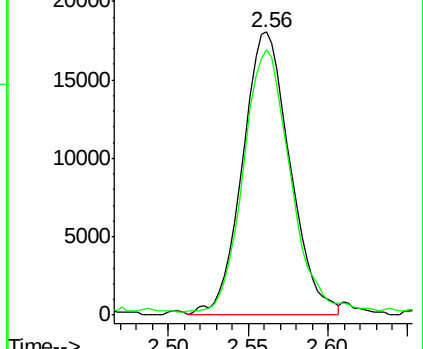
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Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 5.59 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN049212.D

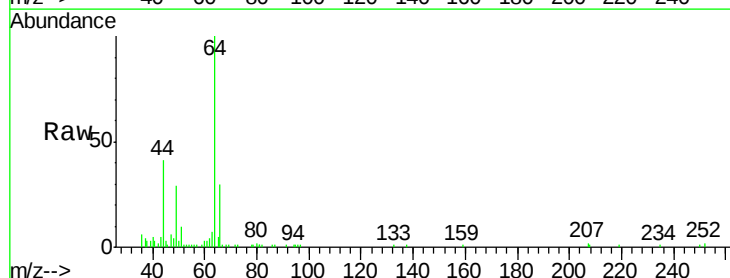
Acq: 13 Jun 2018 20:35

Tgt Ion: 64 Resp: 44948

Ion Ratio Lower Upper

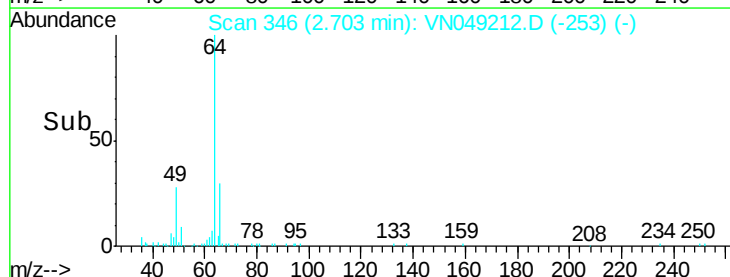
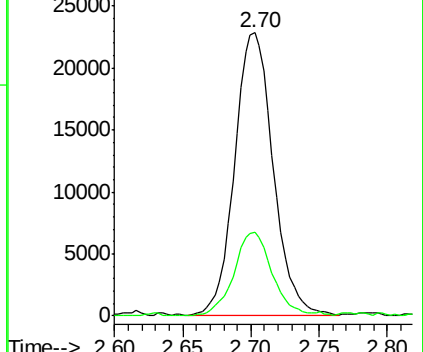
64 100

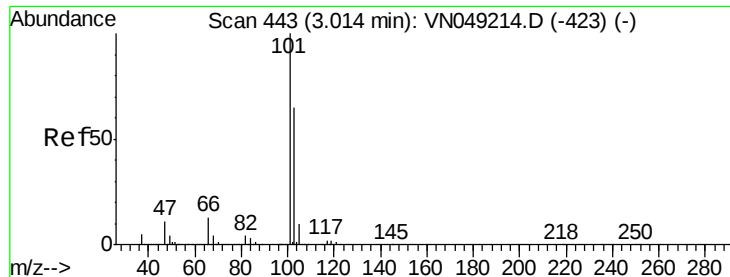
66 29.6 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

Trichlorofluoromethane

Concen: 5.35 ug/l

RT: 3.02 min Scan# 444

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 91540

Ion Ratio Lower Upper

101 100

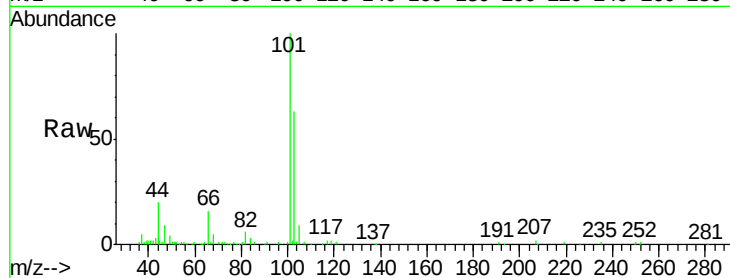
103 62.9 51.7 77.5

Manual Integrations

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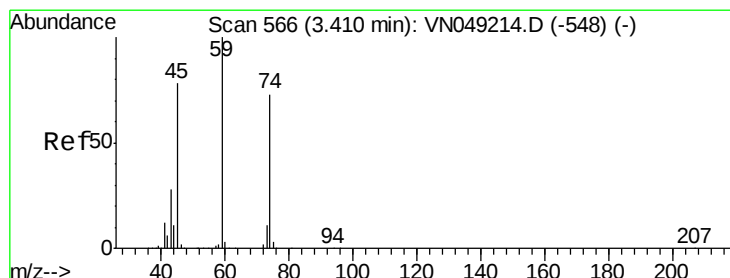
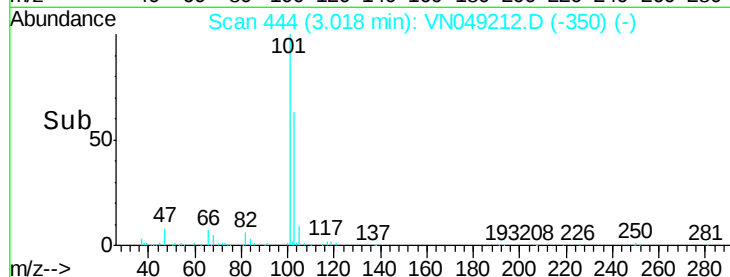
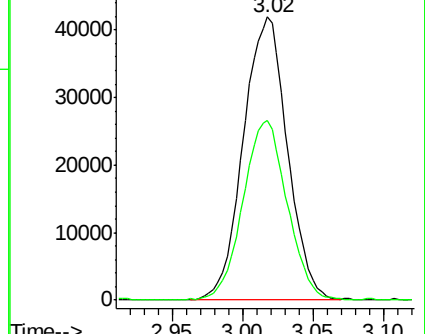
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 5.90 ug/l

RT: 3.41 min Scan# 566

Delta R.T. 0.00 min

Lab File: VN049212.D

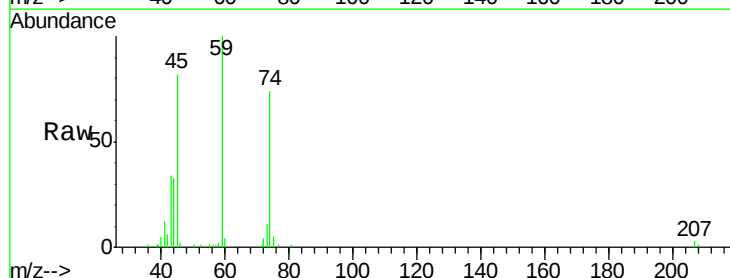
Acq: 13 Jun 2018 20:35

Tgt Ion: 74 Resp: 35225

Ion Ratio Lower Upper

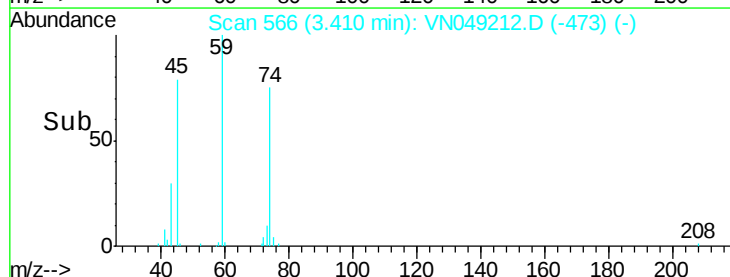
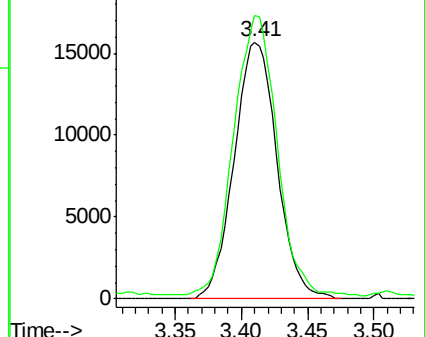
74 100

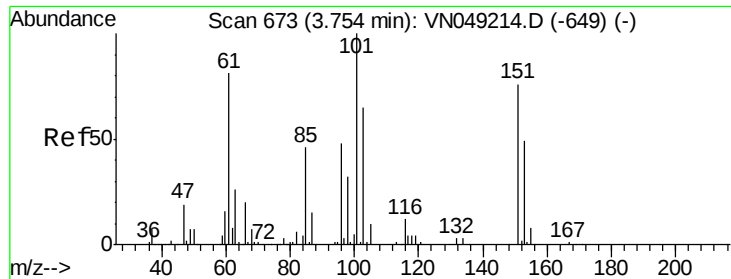
45 110.3 51.9 155.8



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.82 ug/l

RT: 3.75 min Scan# 673

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

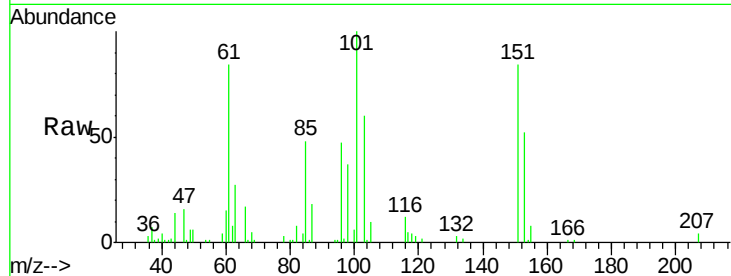
ClientSampled :

VSTDIC005

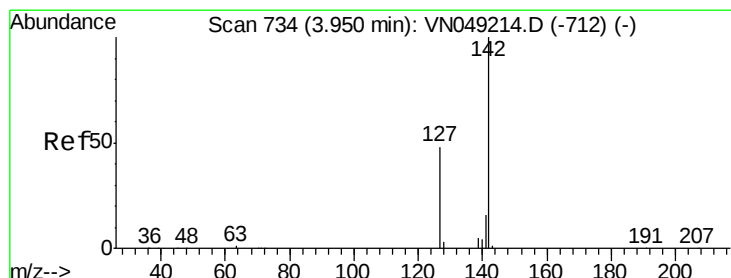
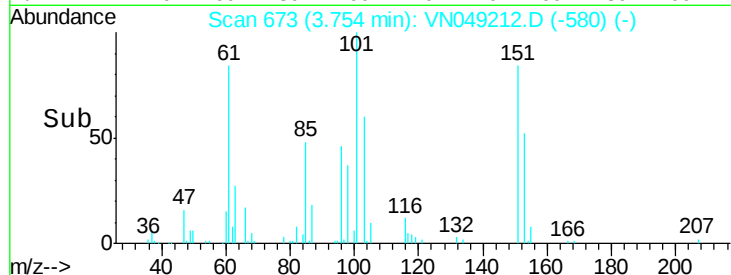
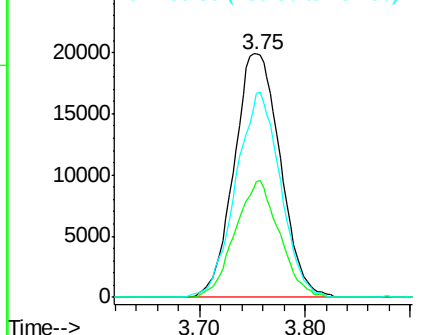
Tot Ion:	101	Resp:	60506
Ion Ratio	Lower	Upper	
101	100		
85	45.9	37.6	56.4
151	81.2	61.1	91.7

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



#10

Methyl Iodide

Concen: 4.27 ug/l

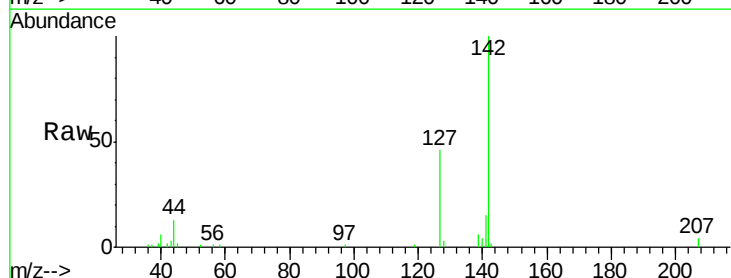
RT: 3.95 min Scan# 734

Delta R.T. 0.00 min

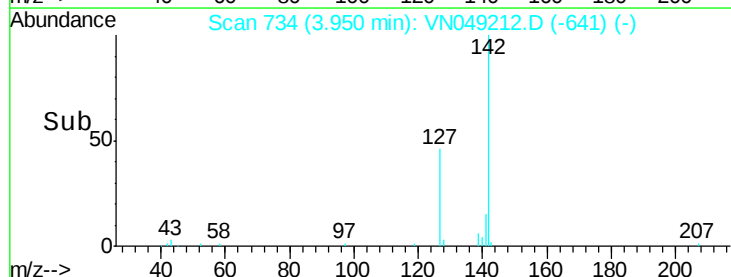
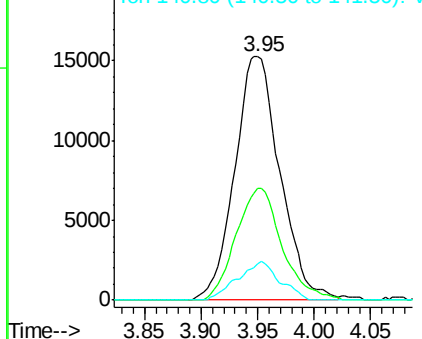
Lab File: VN049212.D

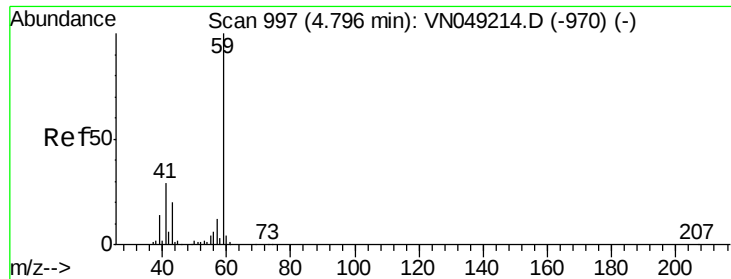
Acq: 13 Jun 2018 20:35

Tgt Ion:	142	Resp:	42508
Ion Ratio	Lower	Upper	
142	100		
127	46.6	38.2	57.4
141	14.7	11.9	17.9



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

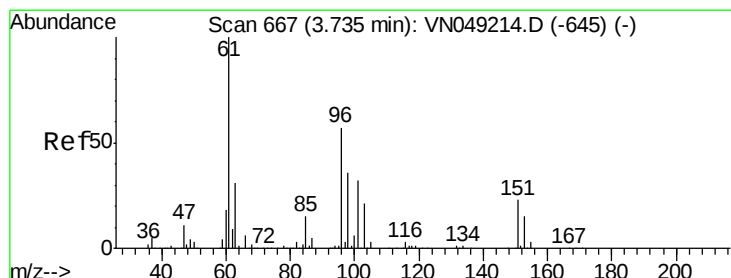
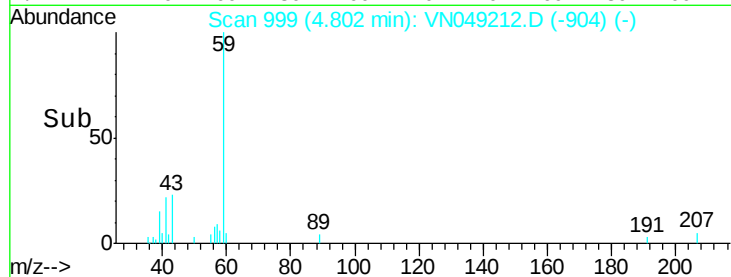
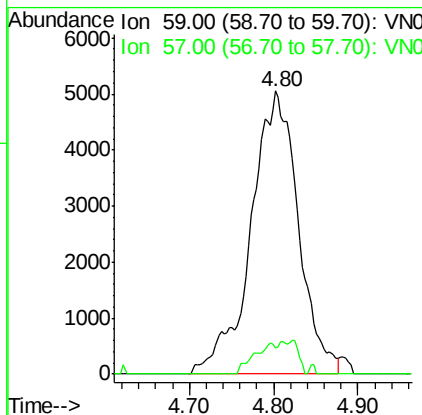
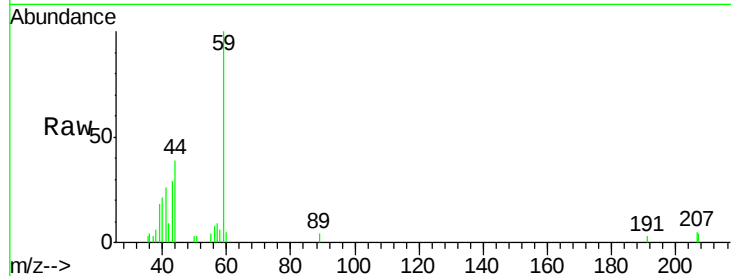
Tert butyl alcohol
Concen: 26.29 ug/l
RT: 4.80 min Scan# 999
Delta R.T. 0.01 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	59	Resp	19726
Ion Ratio	100	Lower	Upper
57	5.0	9.0	13.6#

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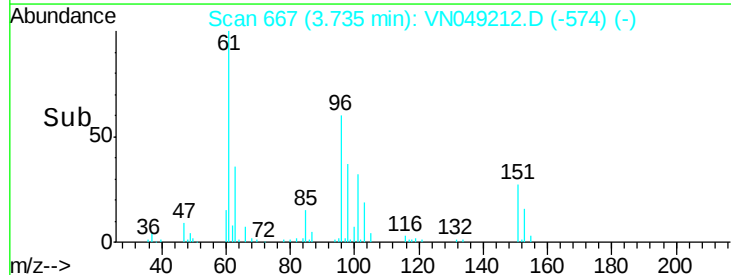
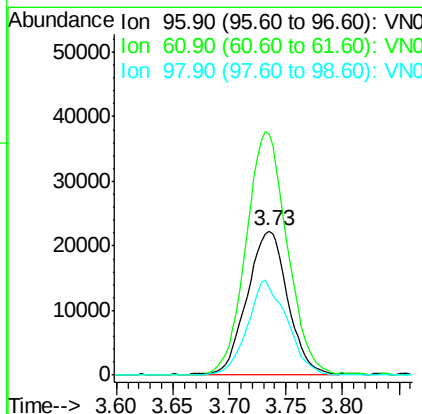
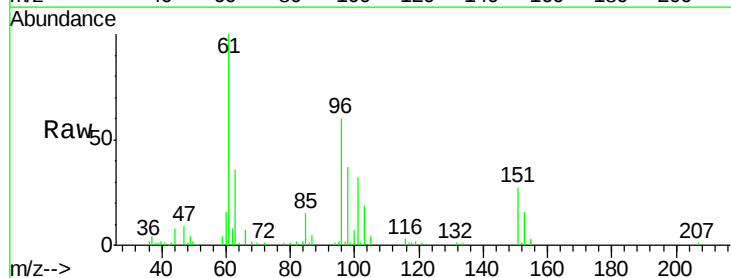
apatel
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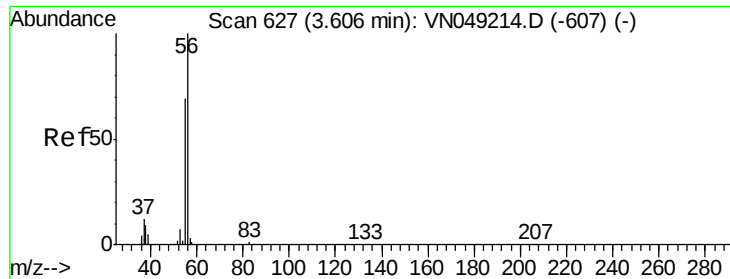


#12

1,1-Dichloroethene
Concen: 5.85 ug/l
RT: 3.73 min Scan# 667
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	96	Resp	55909
Ion Ratio	100	Lower	Upper
61	167.6	141.0	211.4
98	61.3	50.4	75.6





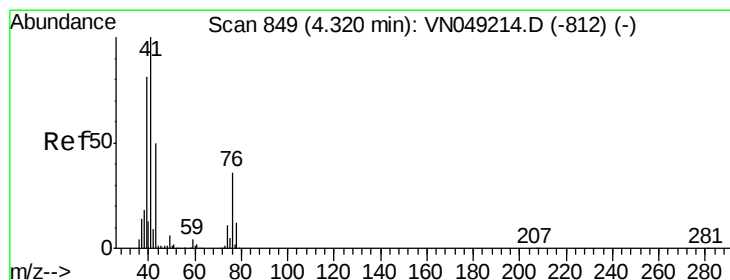
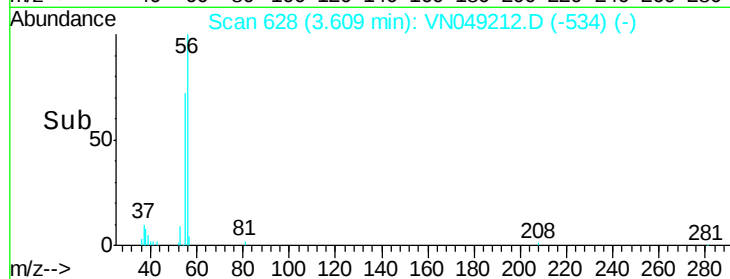
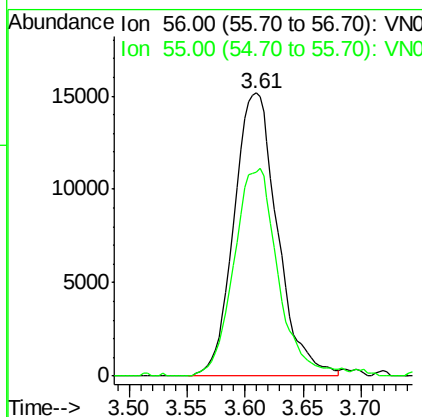
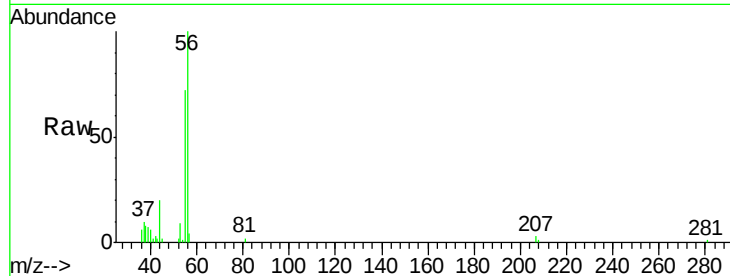
#13
Acrolein
Concen: 57.12 ug/l
RT: 3.61 min Scan# 628
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
56	56	100		
55	55	74.7	57.1	85.7

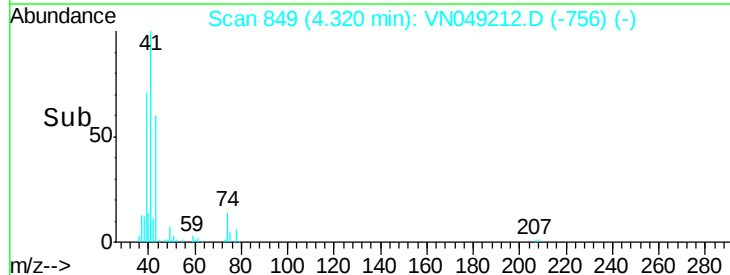
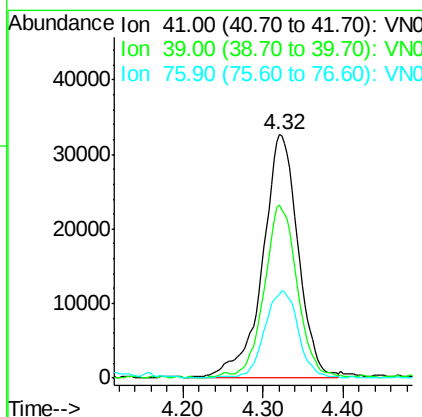
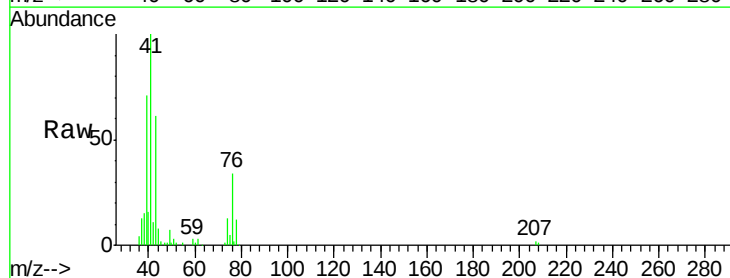
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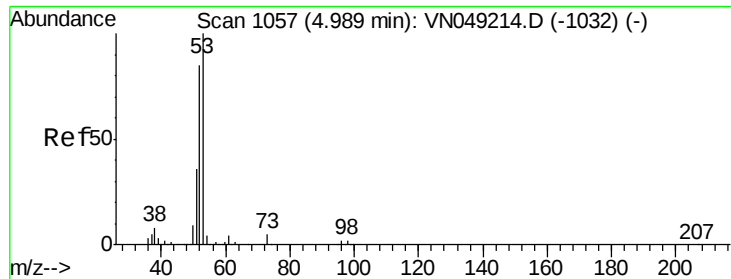
apatel
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#14
Allyl chloride
Concen: 5.52 ug/l
RT: 4.32 min Scan# 849
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ion	Ratio	Lower	Upper
41	41	100		
39	39	64.6	62.5	93.7
76	76	33.7	27.1	40.7





#15

Acrylonitrile

Concen: 25.80 ug/l

RT: 5.00 min Scan# 1060

Delta R.T. 0.01 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

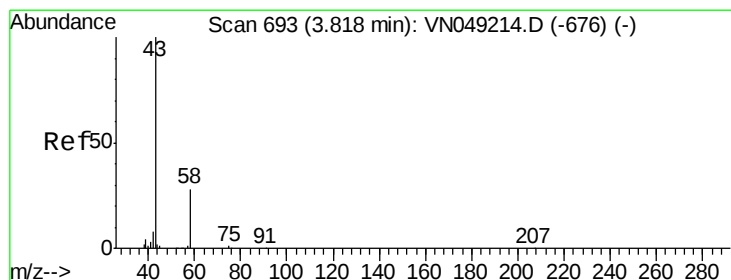
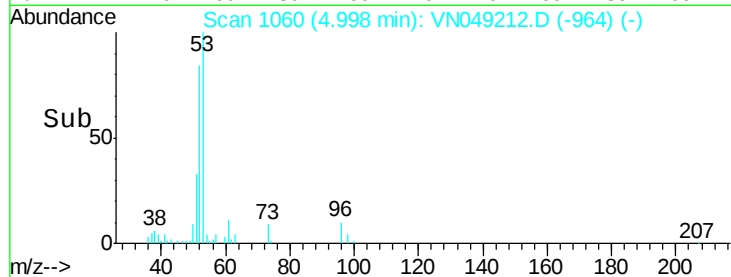
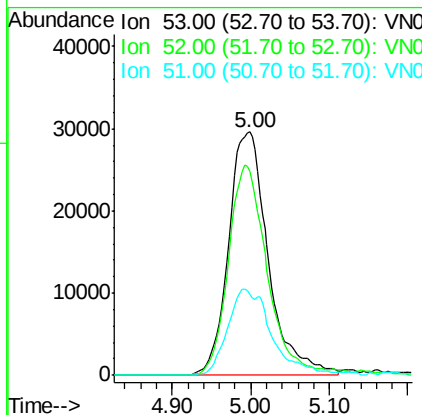
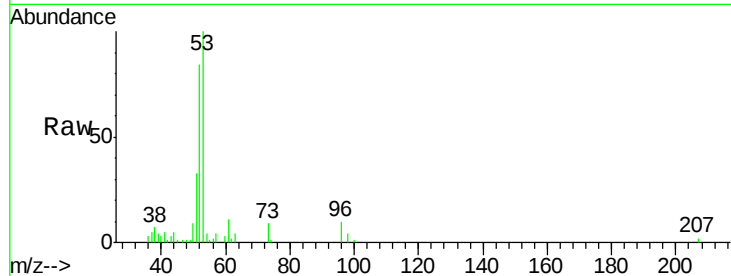
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	104125
Ion Ratio		Lower	Upper
53	100		
52	83.3	66.6	100.0
51	23.1	29.8	44.8#

Manual Integrations
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#16

Acetone

Concen: 26.88 ug/l

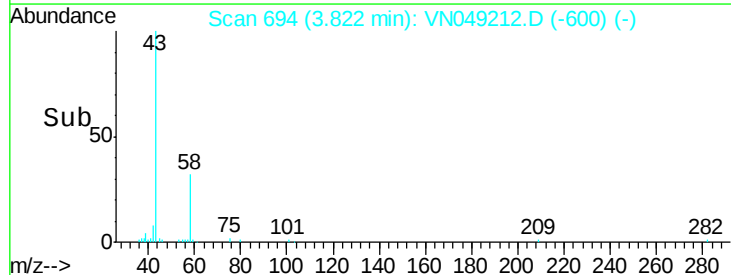
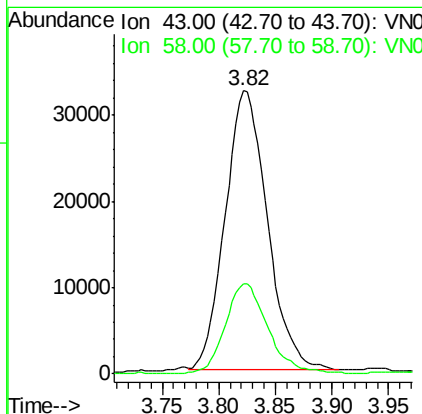
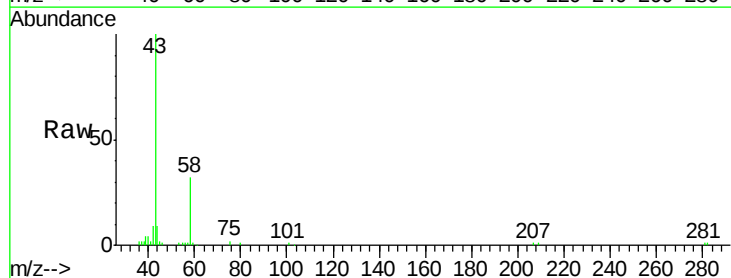
RT: 3.82 min Scan# 694

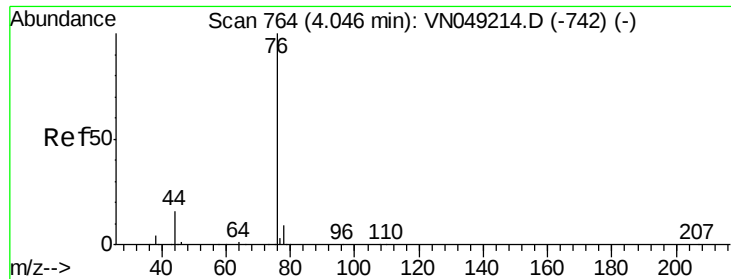
Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Tgt Ion:	43	Resp:	84169
Ion Ratio		Lower	Upper
43	100		
58	31.6	22.4	33.6





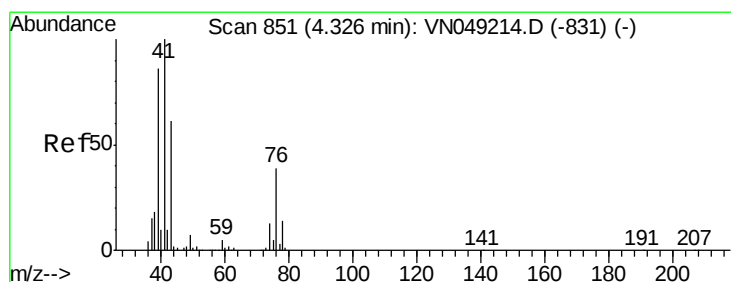
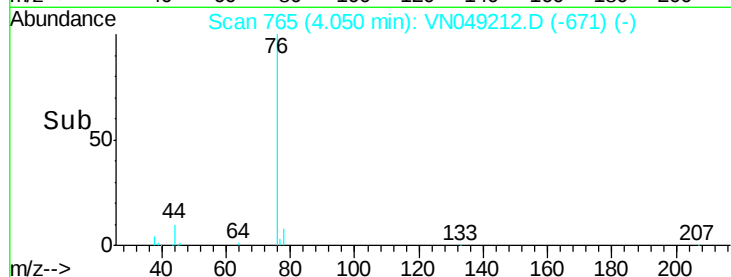
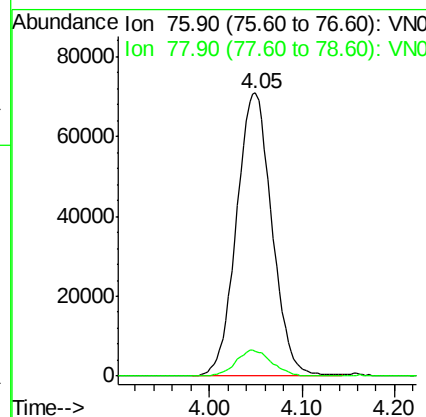
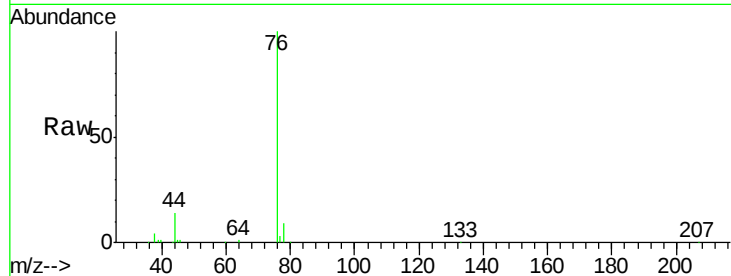
#17
Carbon Disulfide
Concen: 5.95 ug/l
RT: 4.05 min Scan# 765
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.4	11.0

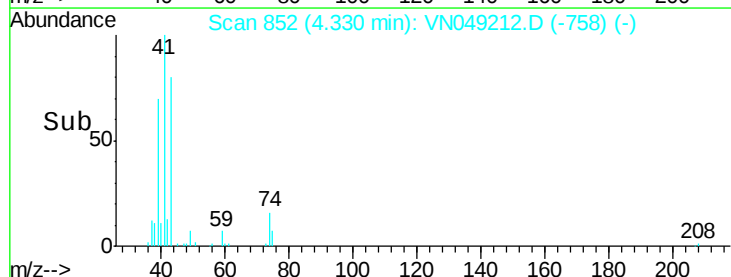
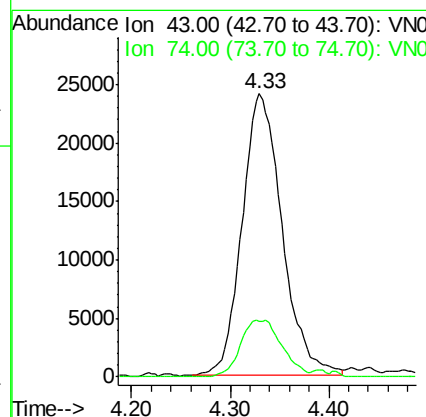
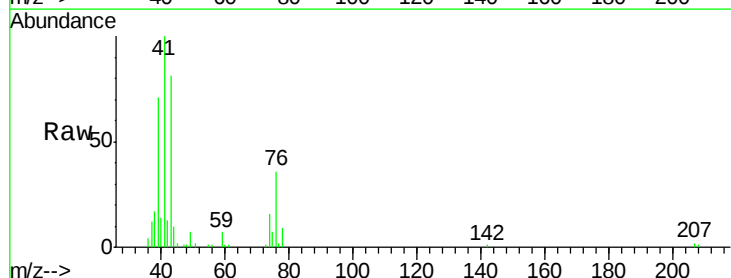
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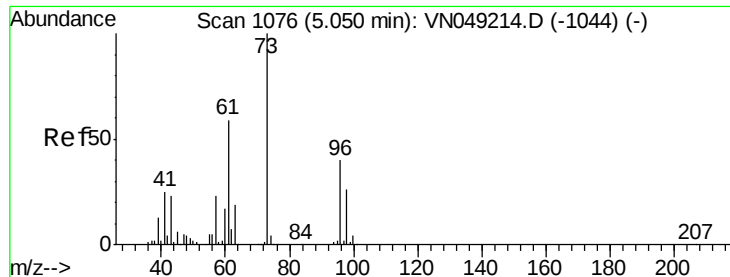
apatel
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#18
Methyl Acetate
Concen: 6.70 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.9	17.4	26.0





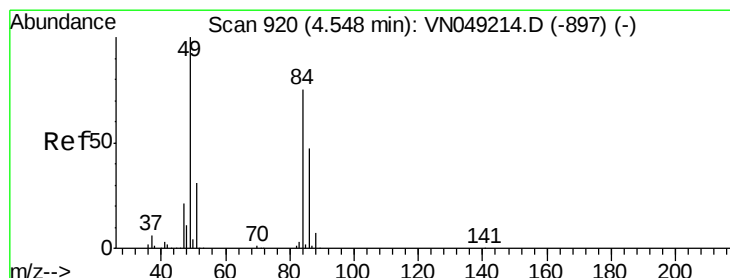
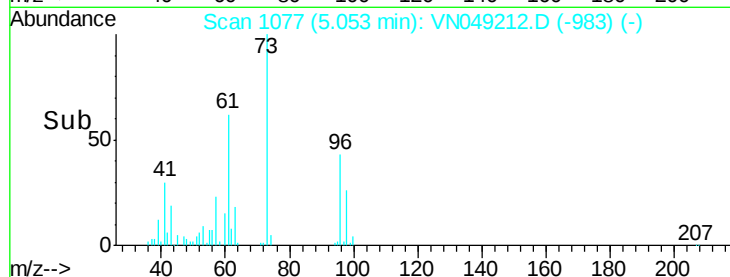
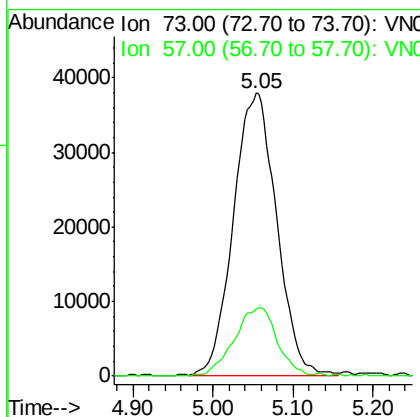
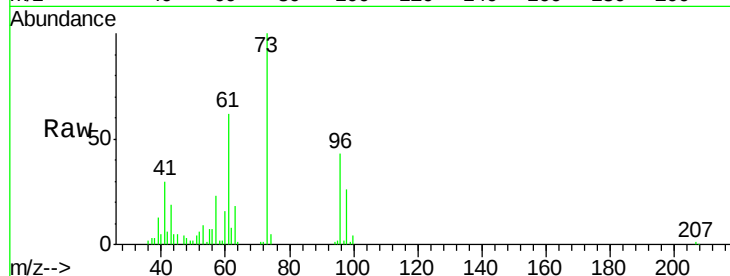
#19
Methvl tert-butvl Ether
Concen: 4.94 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 139992
Ion Ratio Lower Upper
73 100
57 23.5 18.2 27.4

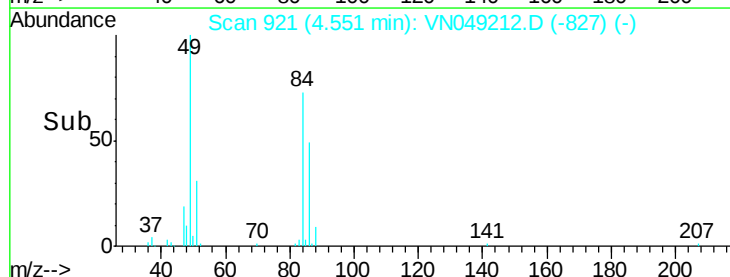
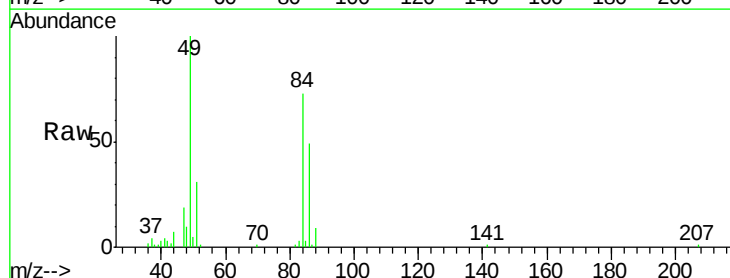
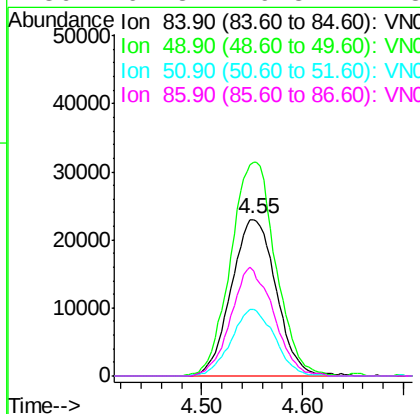
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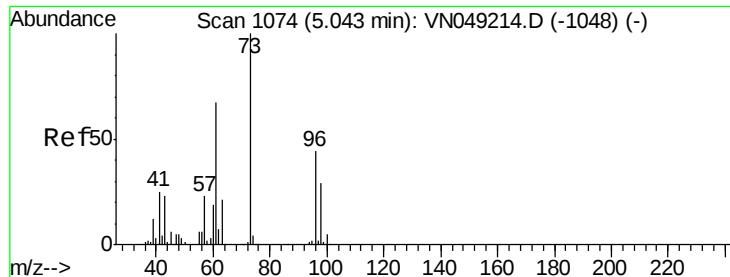
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#20
Methylene Chloride
Concen: 6.09 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion: 84 Resp: 70931
Ion Ratio Lower Upper
84 100
49 136.5 106.9 160.3
51 42.4 32.7 49.1
86 67.3 49.8 74.8





#21

trans-1,2-Dichloroethene

Concen: 5.57 ug/l

RT: 5.04 min Scan# 1073

Delta R.T. -0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 60670

Ion Ratio Lower Upper

96 100

61 148.8 121.3 181.9

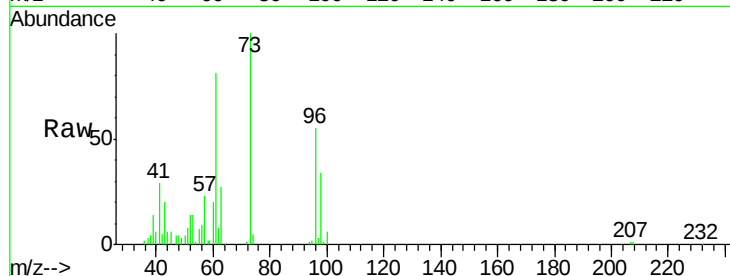
98 62.6 52.0 78.0

Manual Integrations

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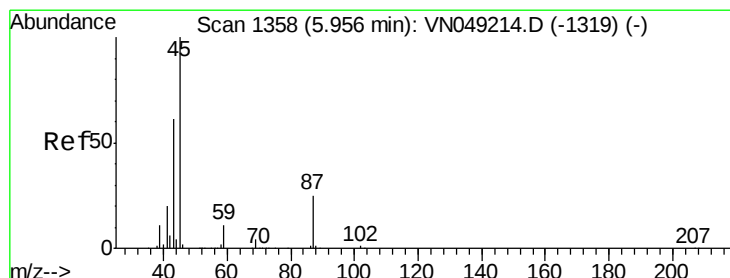
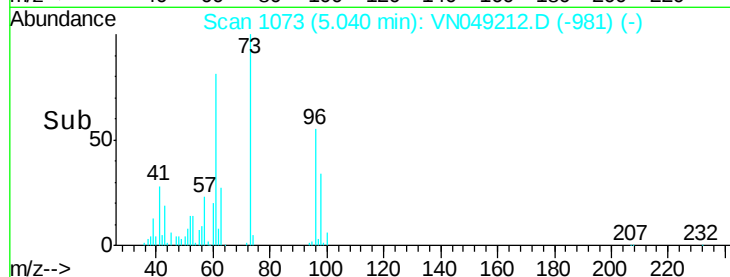
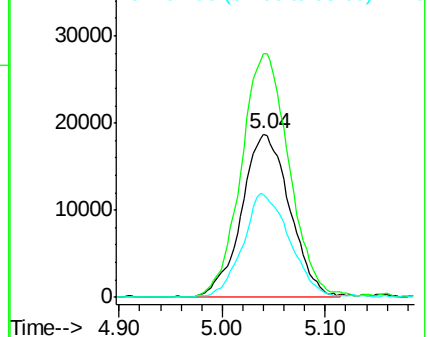
6/14/2018 5:07:12 PM



Abundance Ion 95.90 (95.60 to 96.60): VN049212.D (-1048) (-)

Ion 60.90 (60.60 to 61.60): VN049212.D (-1048) (-)

Ion 97.90 (97.60 to 98.60): VN049212.D (-1048) (-)



#22

Diisopropyl ether

Concen: 5.15 ug/l

RT: 5.95 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Tgt Ion: 45 Resp: 200024

Ion Ratio Lower Upper

45 100

43 69.6 48.6 72.8

87 23.7 20.2 30.2

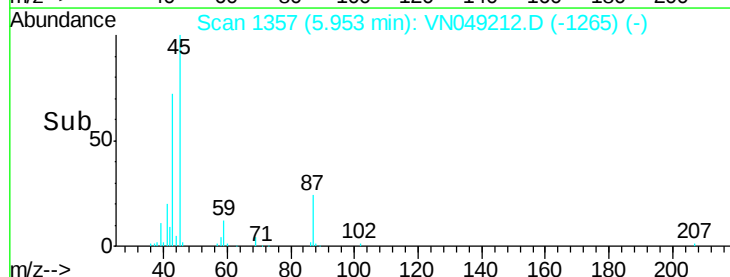
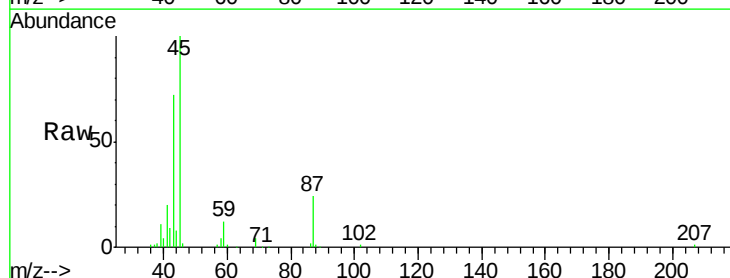
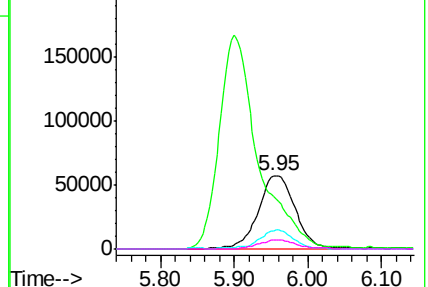
59 11.9 9.0 13.4

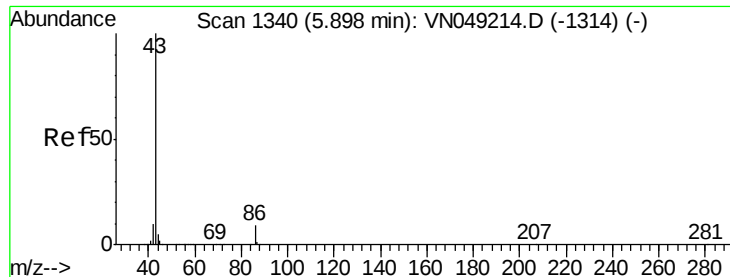
Abundance Ion 45.00 (44.70 to 45.70): VN049212.D (-1265) (-)

Ion 43.00 (42.70 to 43.70): VN049212.D (-1265) (-)

Ion 87.00 (86.70 to 87.70): VN049212.D (-1265) (-)

Ion 59.00 (58.70 to 59.70): VN049212.D (-1265) (-)





#23

Vinyl Acetate

Concen: 23.10 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 611435

Ion Ratio Lower Upper

43 100

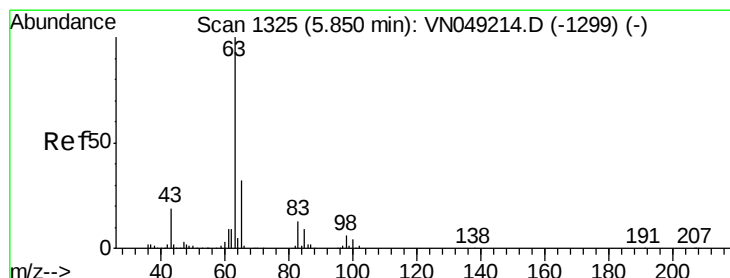
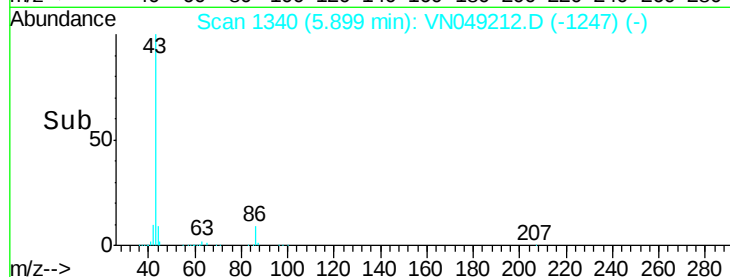
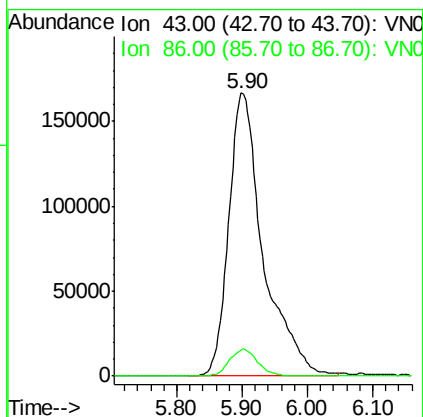
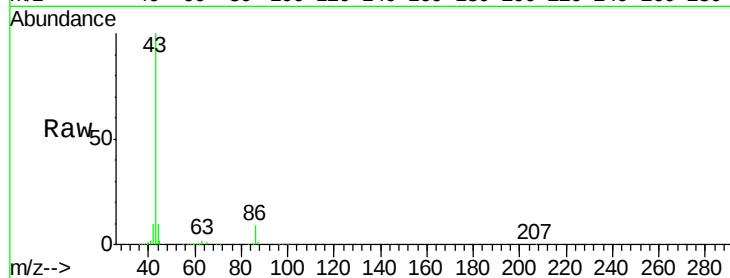
86 9.4 7.2 10.8

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 5.61 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

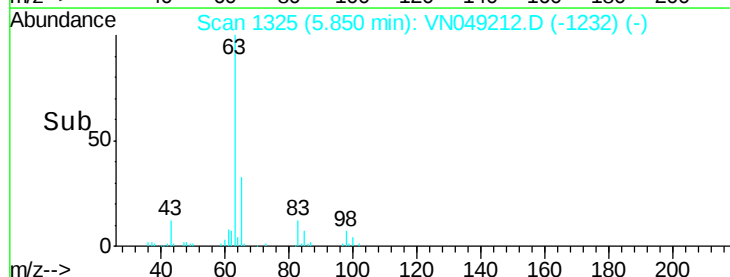
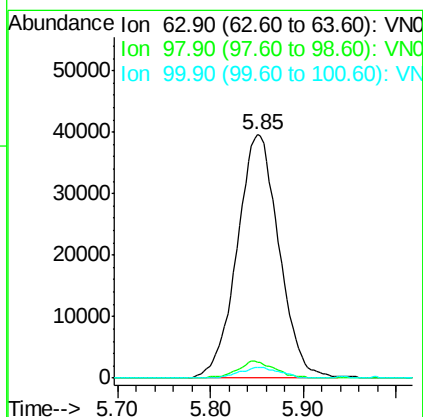
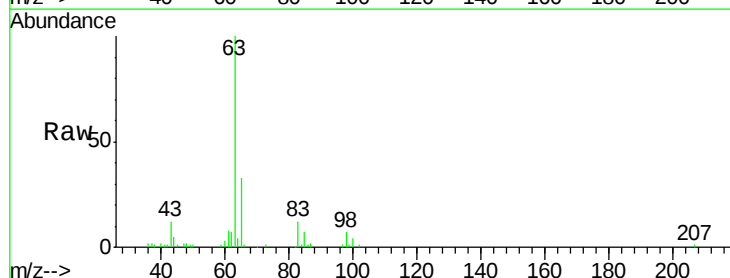
Tgt Ion: 63 Resp: 124261

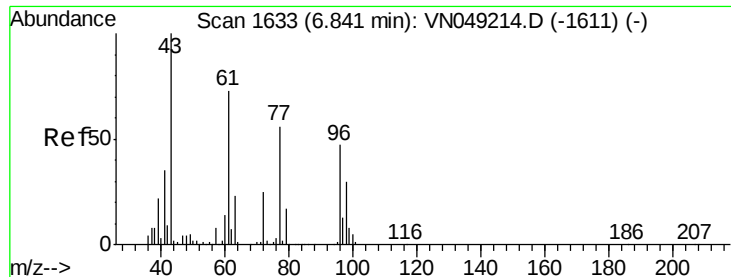
Ion Ratio Lower Upper

63 100

98 6.7 2.9 8.8

100 4.5 2.1 6.3





#25

2-Butanone

Concen: 24.78 ug/l

RT: 6.85 min Scan# 1635

Delta R.T. 0.01 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 117667

Ion Ratio Lower Upper

43 100

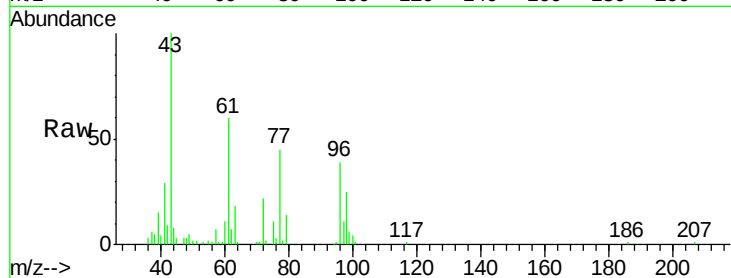
72 22.6 20.2 30.2

Manual Integrations

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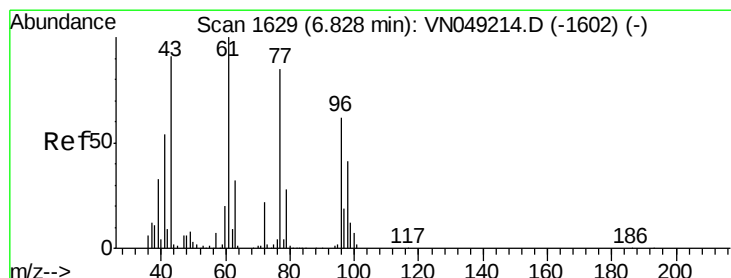
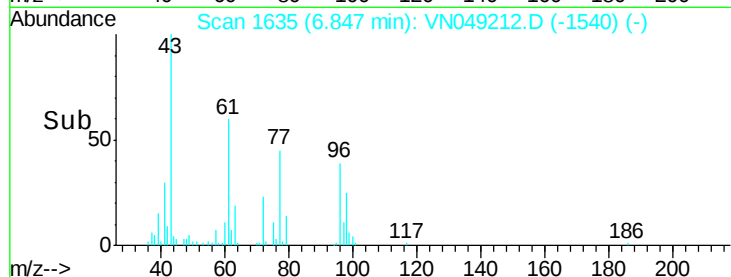
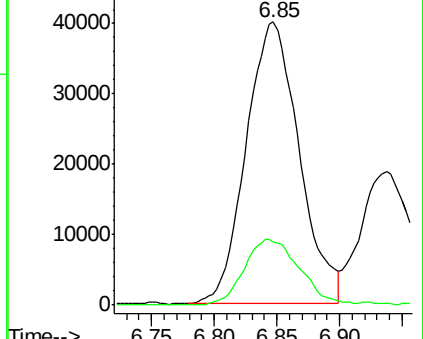
apatel

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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: 5.21 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN049212.D

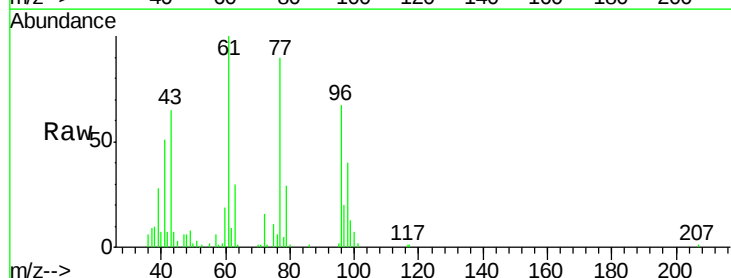
Acq: 13 Jun 2018 20:35

Tgt Ion: 77 Resp: 91273

Ion Ratio Lower Upper

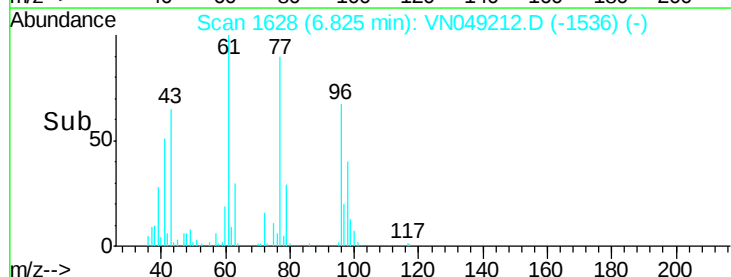
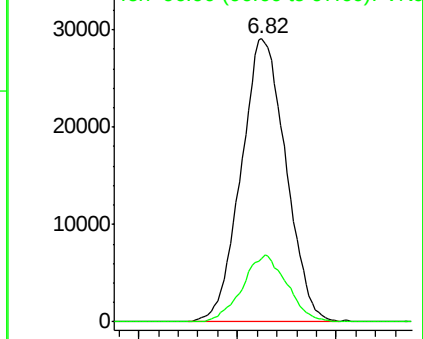
77 100

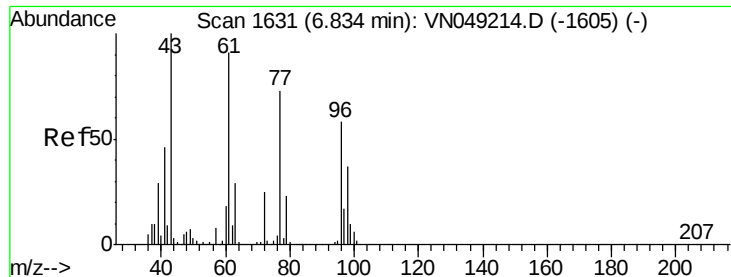
97 23.5 11.0 33.0



Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0





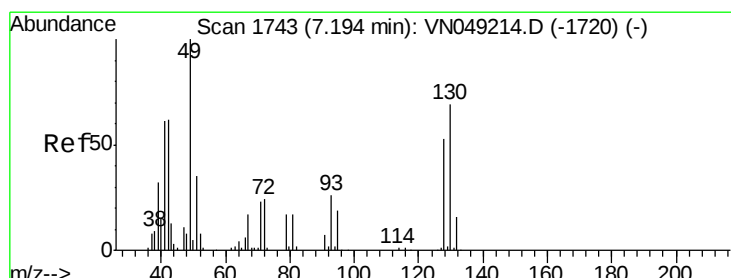
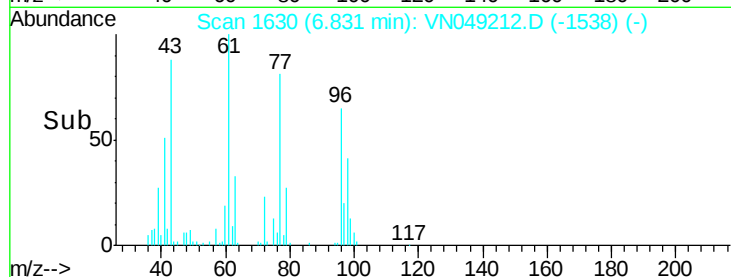
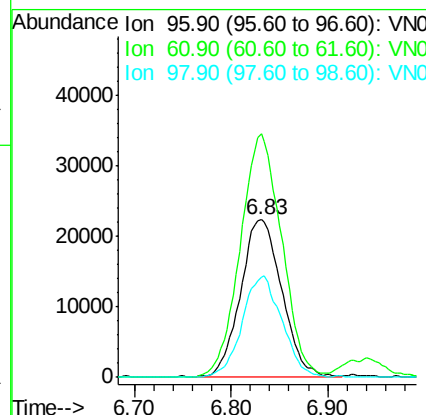
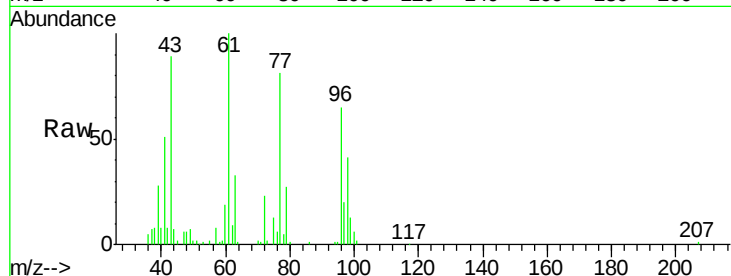
#27
 cis-1,2-Dichloroethene
 Concen: 5.47 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. -0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	154.0	0.0	316.4
98	61.5	0.0	128.4

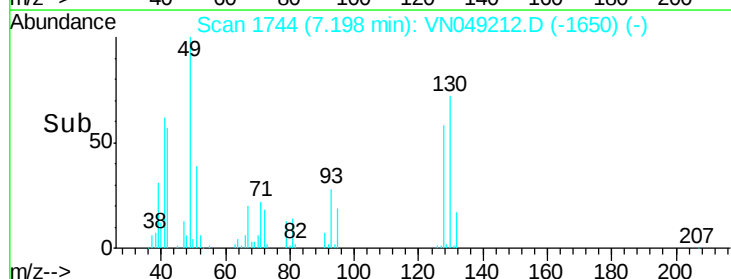
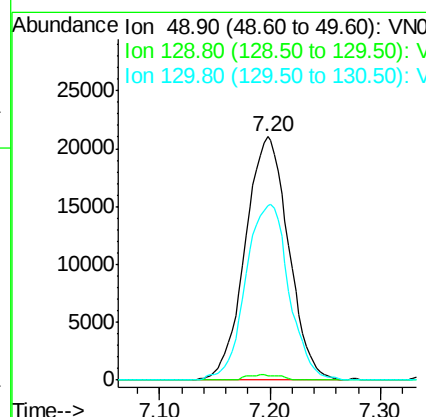
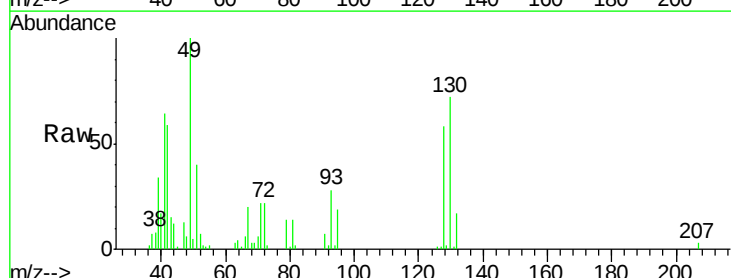
Manual Integrations
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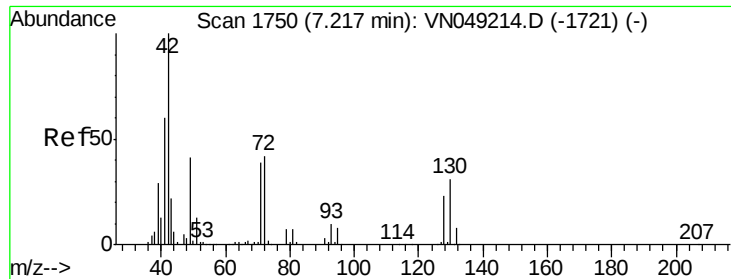
apatel
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#28
 Bromochloromethane
 Concen: 5.93 ug/l
 RT: 7.20 min Scan# 1744
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.8
130	72.2	54.9	82.3





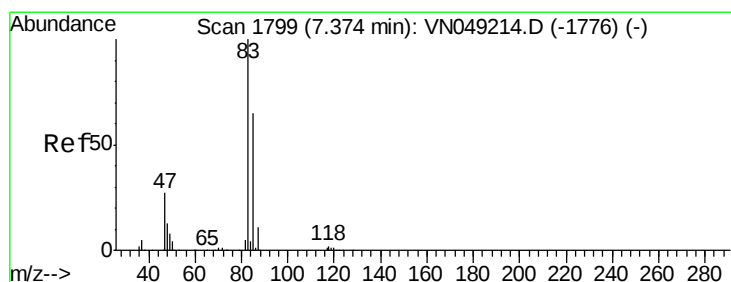
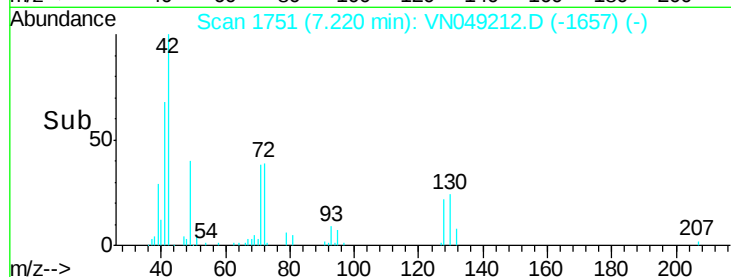
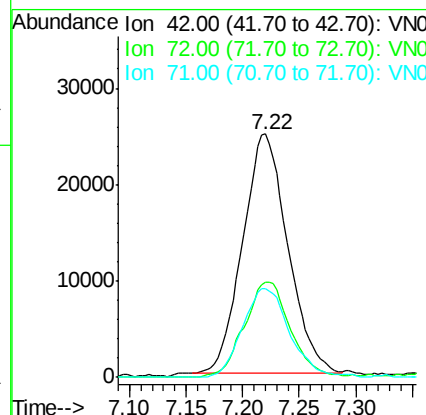
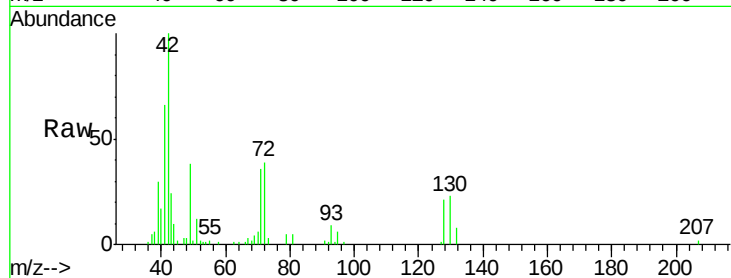
#29
Tetrahydrofuran
Concen: 22.75 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.4	32.2	48.4
71	38.3	30.5	45.7

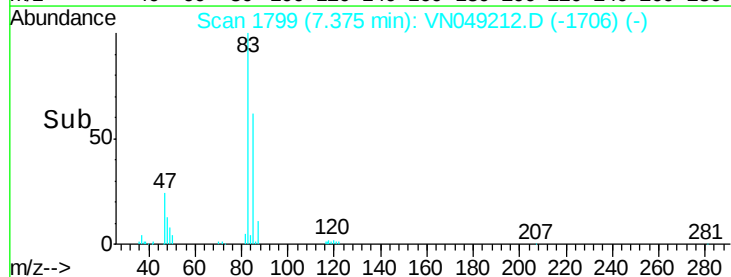
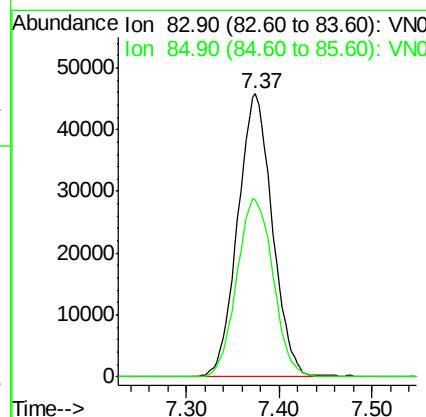
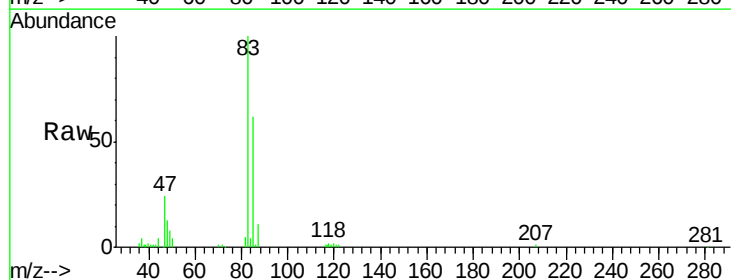
Manual Integrations
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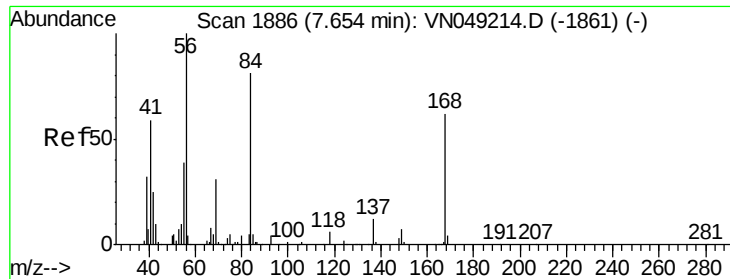
apatel
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#30
Chloroform
Concen: 5.52 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.5	51.7	77.5





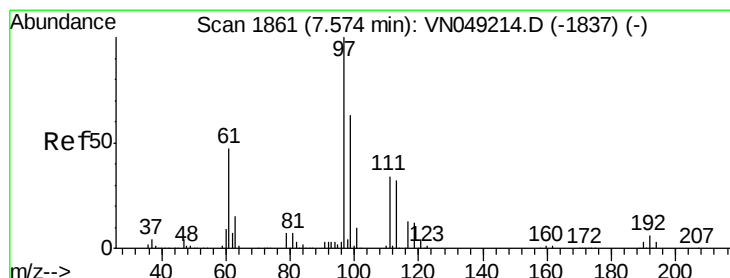
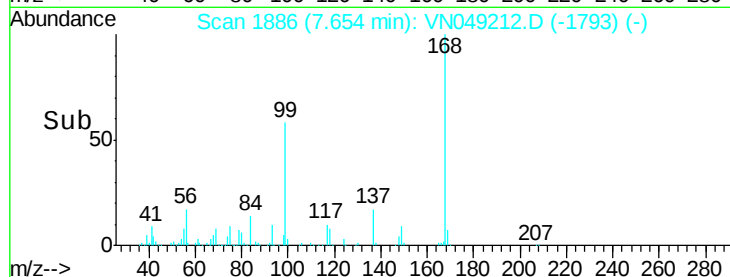
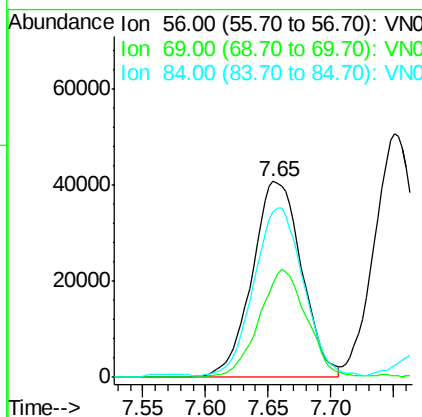
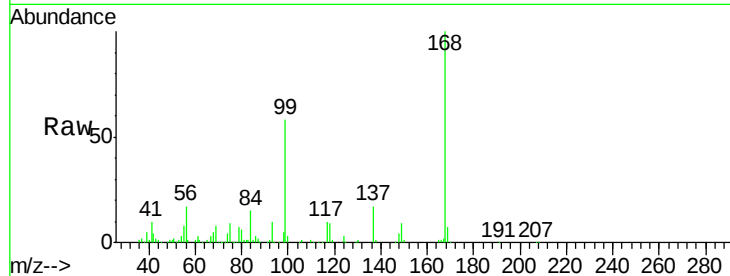
#31
Cyclohexane
Concen: 5.51 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
69	48.1	25.0	37.4#
84	83.4	64.6	96.8

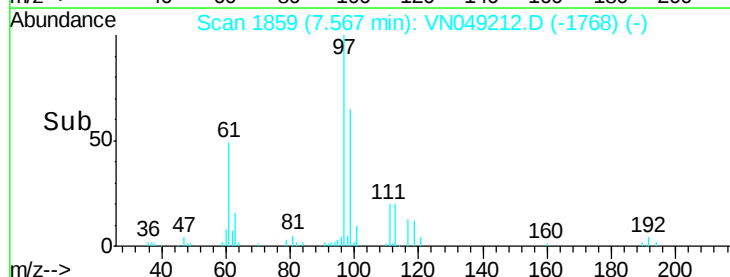
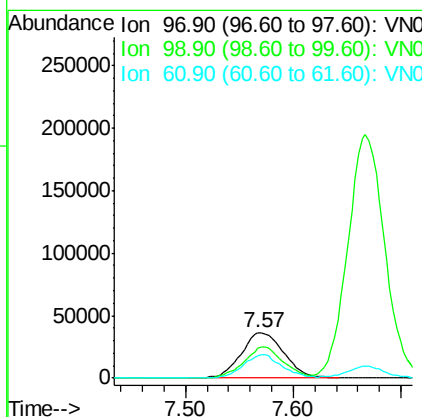
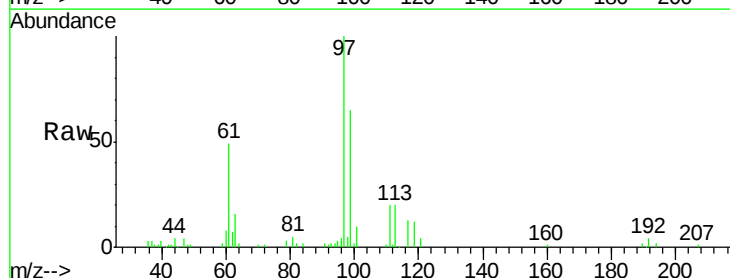
Manual Integrations
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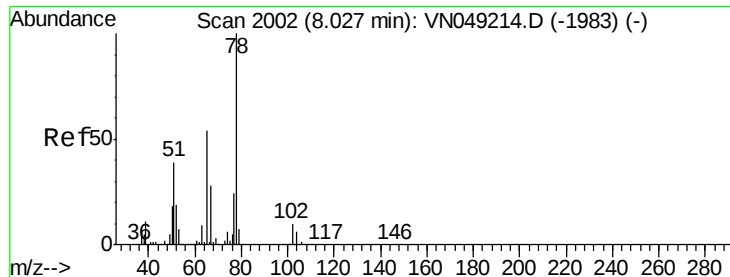
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#32
1,1,1-Trichloroethane
Concen: 5.45 ug/l
RT: 7.57 min Scan# 1859
Delta R.T. -0.01 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.2	50.5	75.7
61	46.6	37.9	56.9





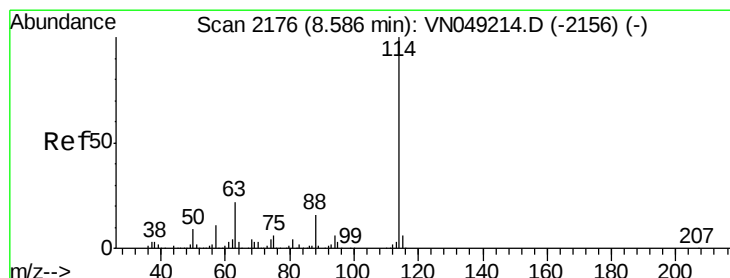
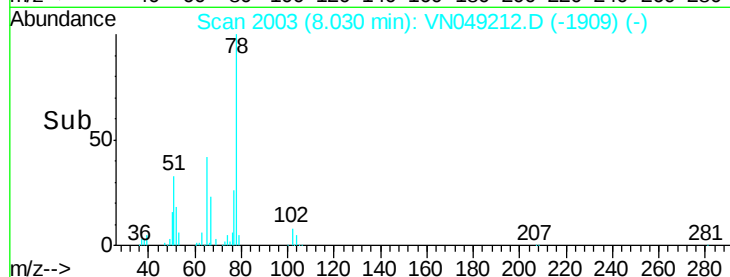
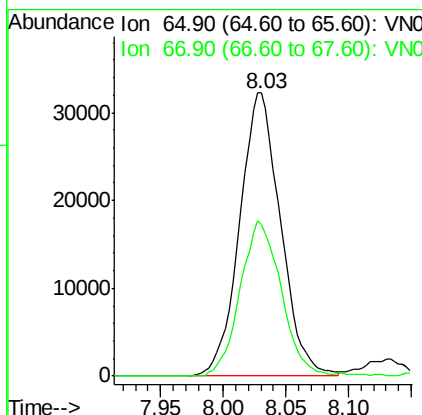
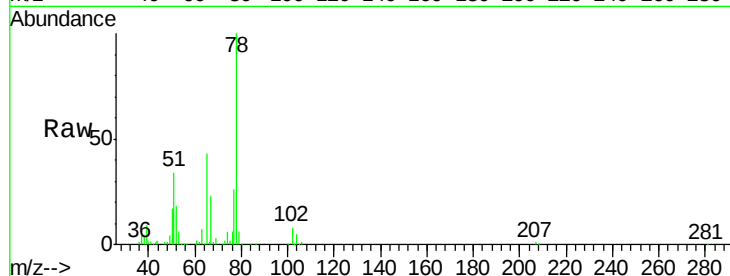
#33
 1,2-Dichloroethane-d4
 Concen: 5.50 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	103.8

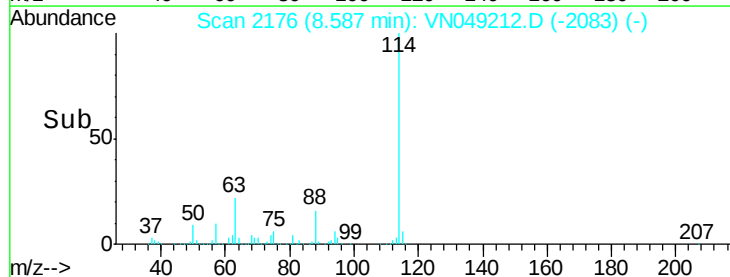
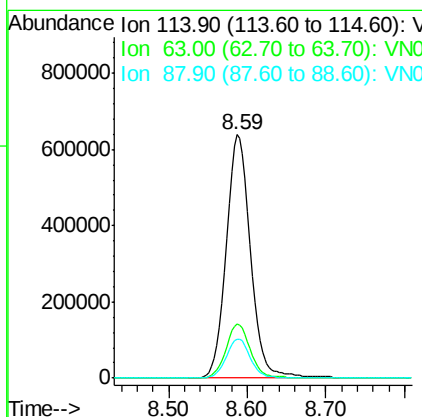
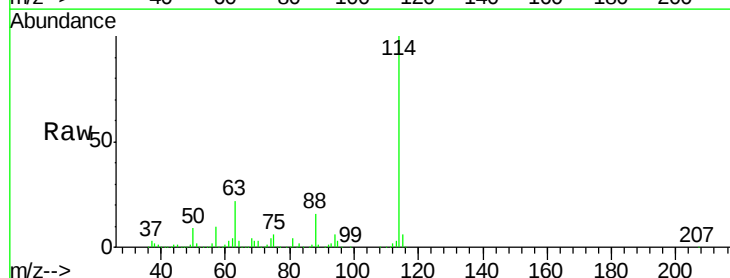
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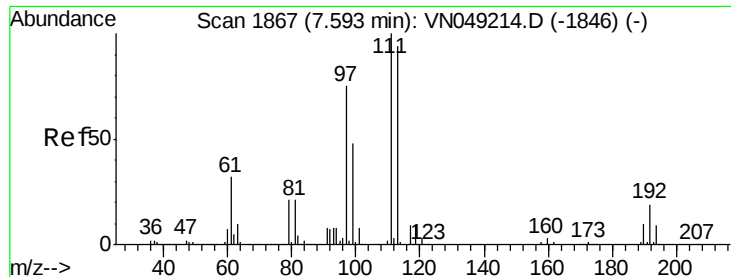
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.4
88	16.0	0.0	31.4





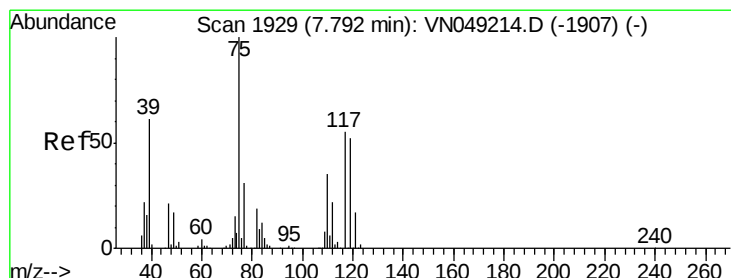
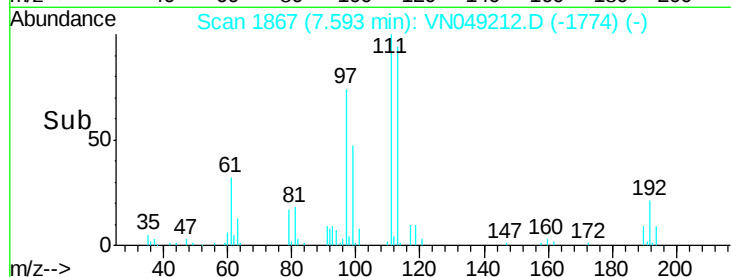
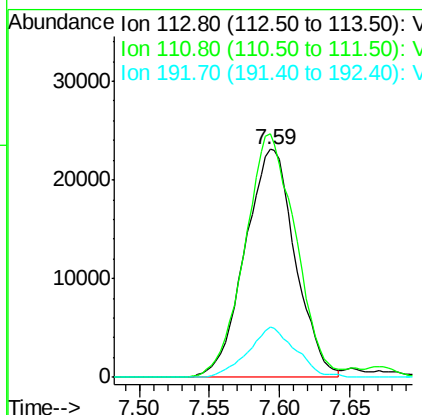
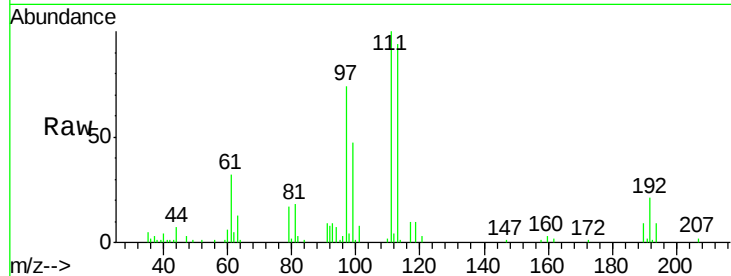
#35
 Dibromofluoromethane
 Concen: 5.12 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
113	100	57501		
111	107.8	82.4	123.6	
192	20.8	15.0	22.6	

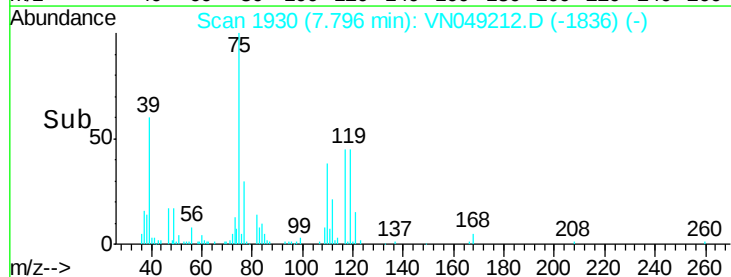
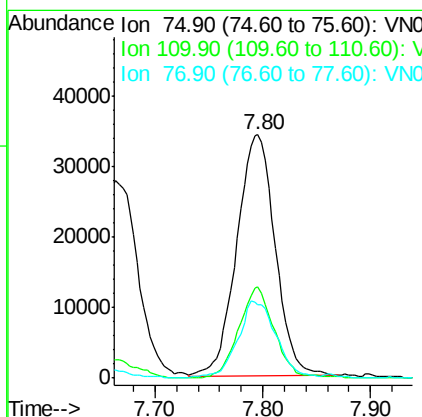
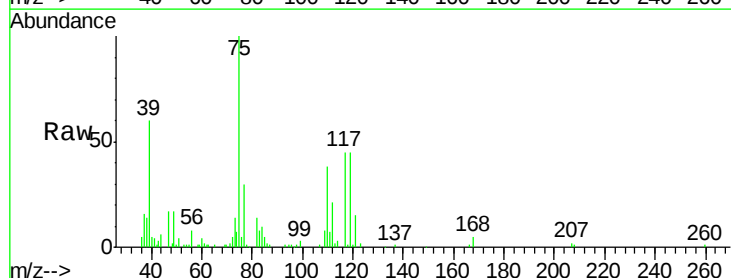
Manual Integrations
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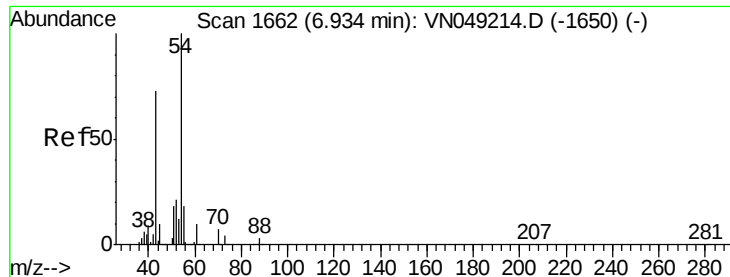
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#36
 1,1-Dichloropropene
 Concen: 5.00 ug/l
 RT: 7.80 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	85207		
110	34.6	17.0	50.9	
77	31.9	24.4	36.6	





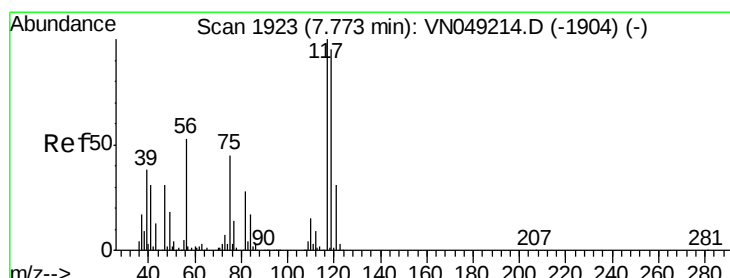
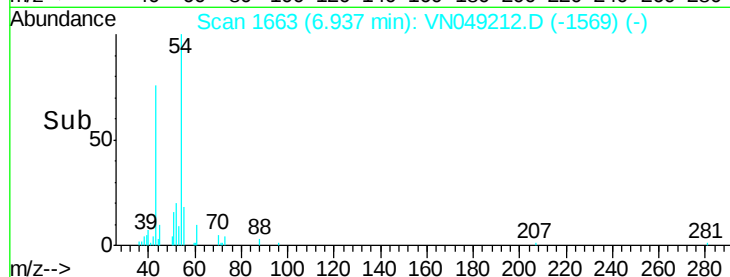
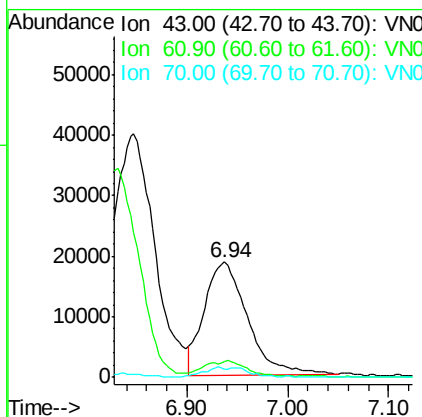
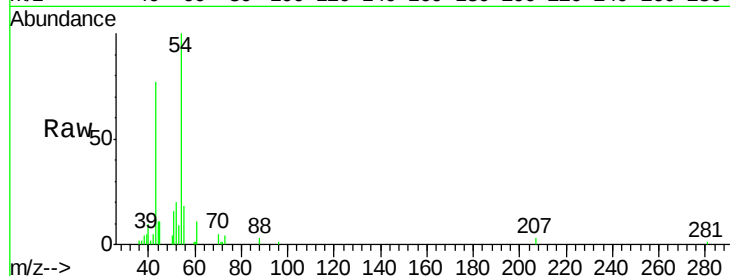
#37
Ethyl Acetate
Concen: 5.08 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.8	11.0	16.4
70	4.2	7.2	10.8

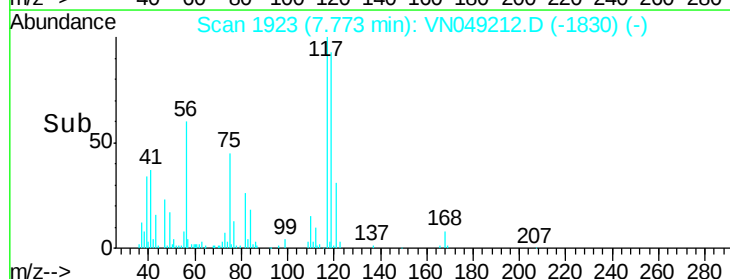
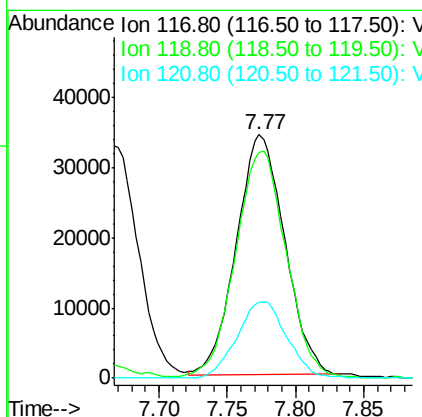
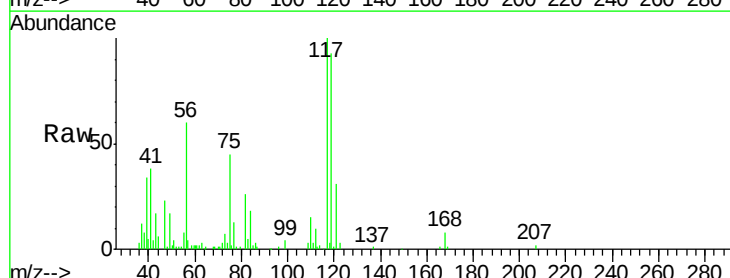
Manual Integrations
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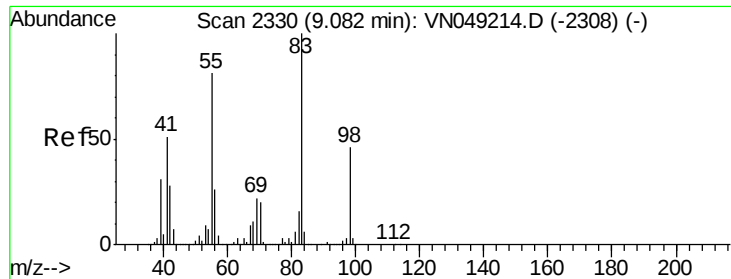
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#38
Carbon Tetrachloride
Concen: 5.08 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.3	75.6	113.4
121	31.6	24.7	37.1





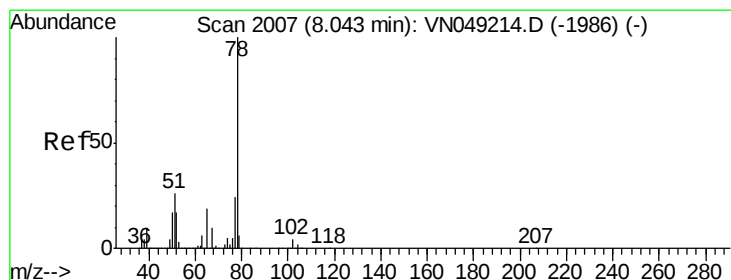
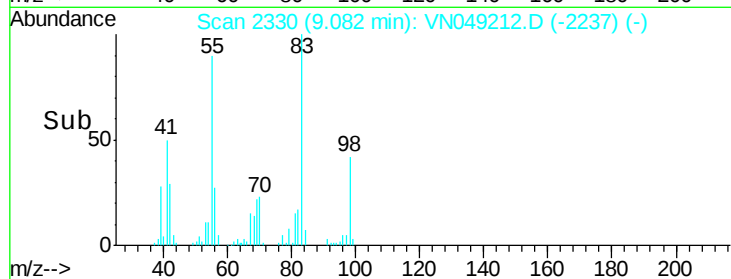
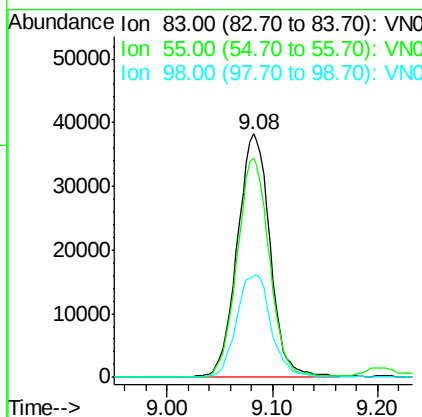
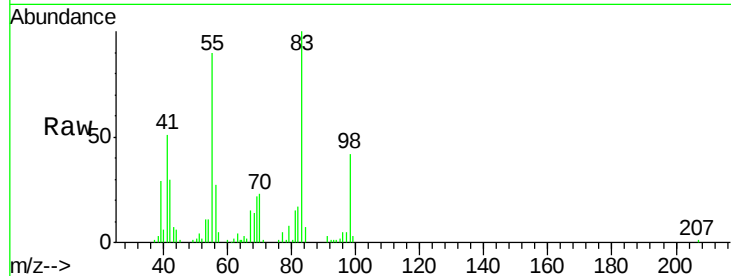
#39
Methvlcvclohexane
Concen: 4.64 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	90.1	65.1	97.7
98	41.6	36.5	54.7

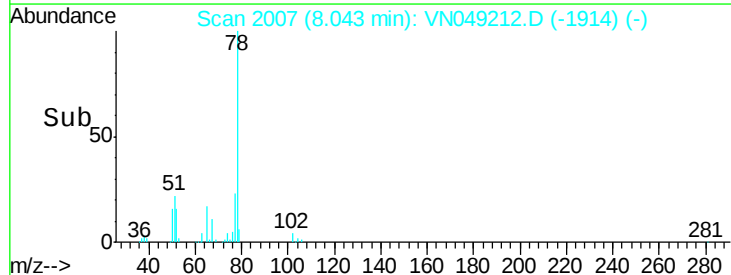
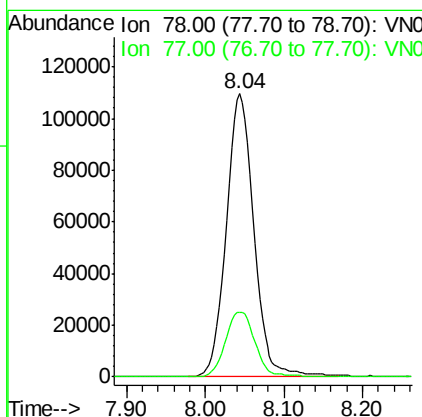
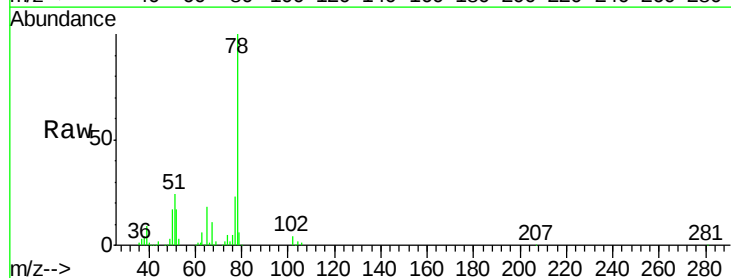
Manual Integrations
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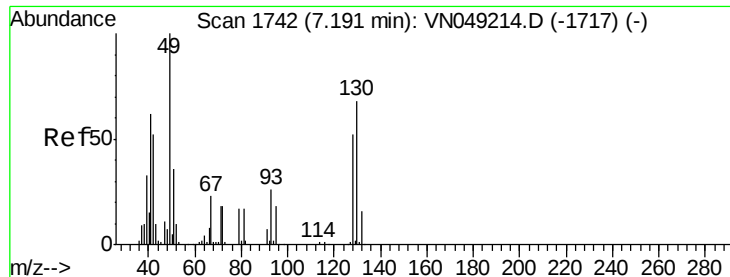
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#40
Benzene
Concen: 5.20 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.4	29.0





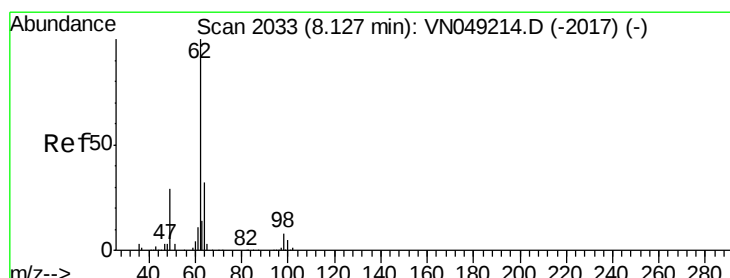
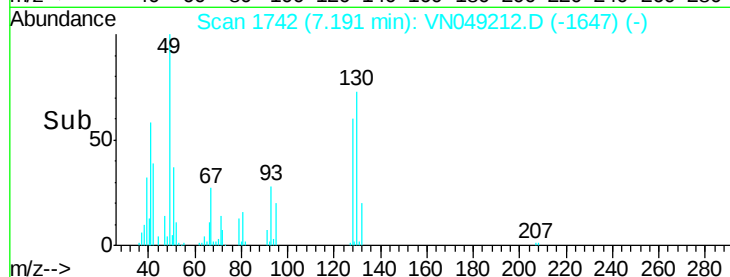
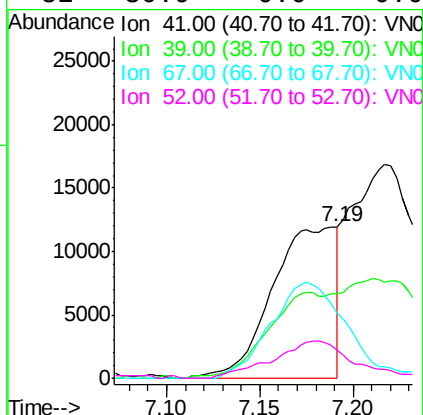
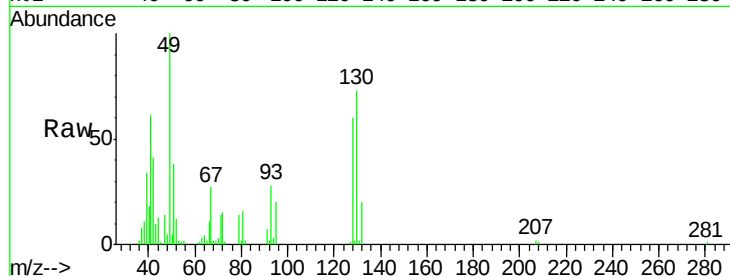
#41
Methacrylonitrile
Concen: 4.73 ug/l m
RT: 7.19 min Scan# 1742
Delta R.T. 0.01 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	50.3	0.0	0.0#
67	74.9	0.0	0.0#
52	30.9	0.0	0.0#

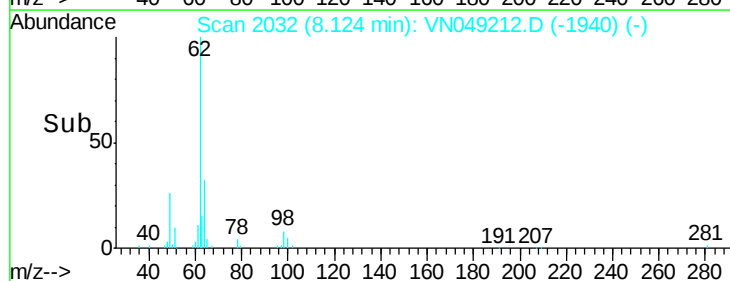
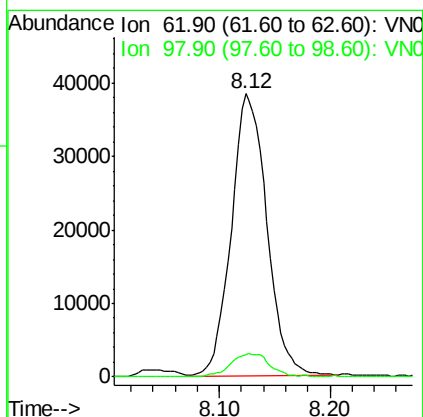
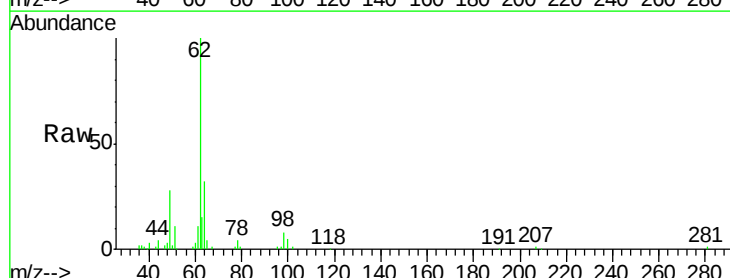
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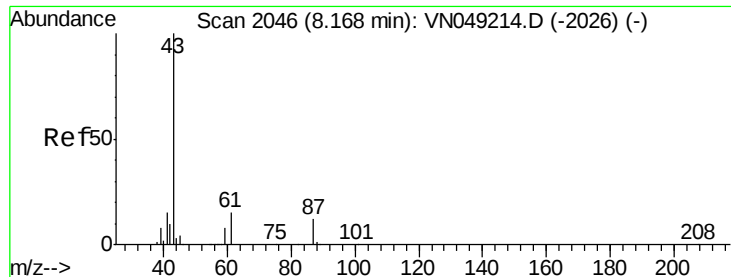
apatel
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#42
1,2-Dichloroethane
Concen: 5.16 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	16.2





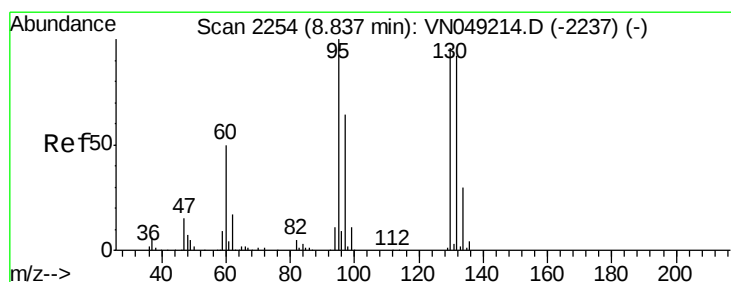
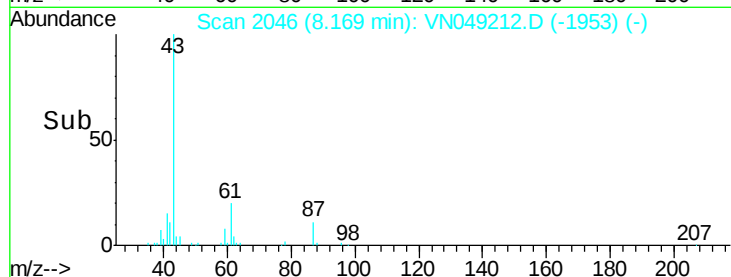
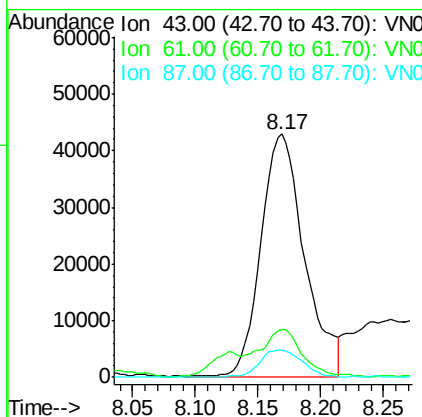
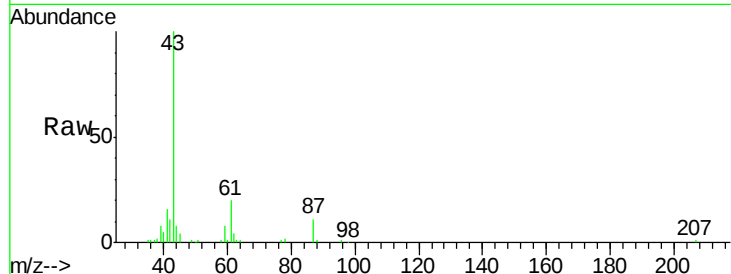
#43
Isopropyl Acetate
Concen: 4.95 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.9	14.2	21.4#
87	11.1	9.4	14.0

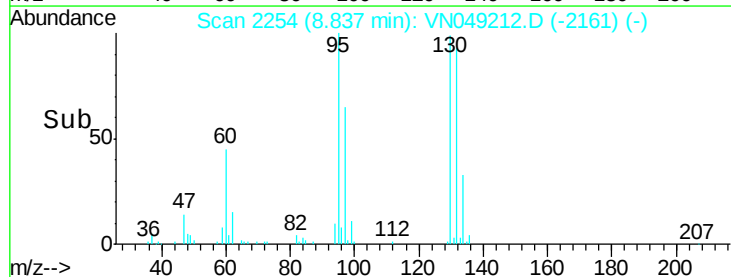
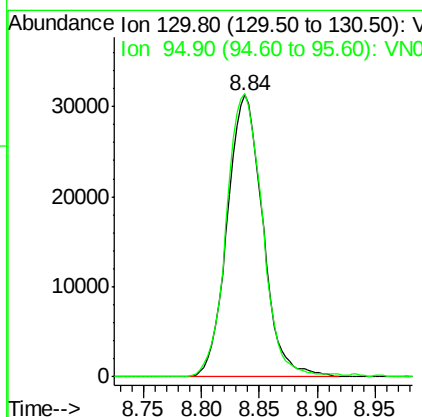
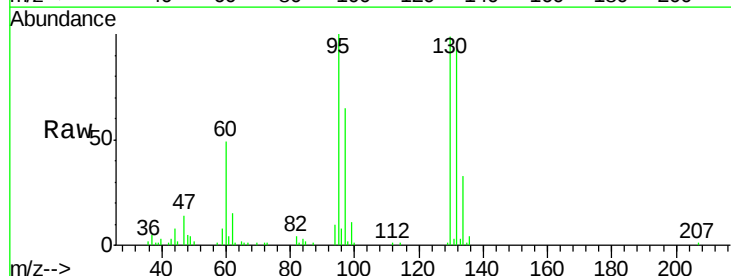
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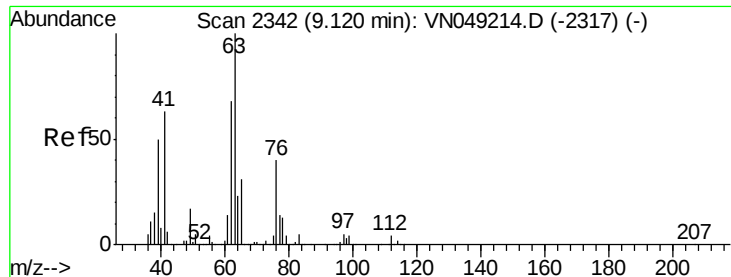
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#44
Trichloroethene
Concen: 5.32 ug/l
RT: 8.84 min Scan# 2254
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
130	100		
95	100.5	0.0	208.6





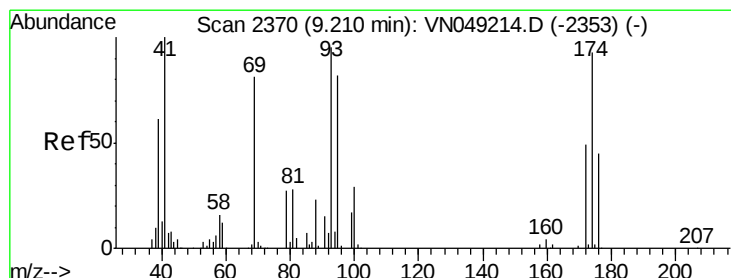
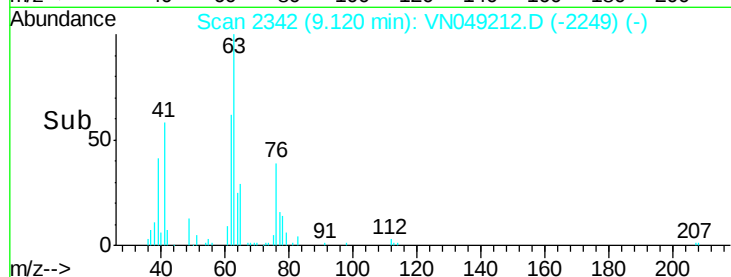
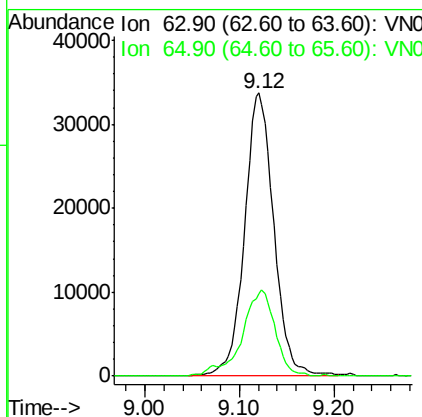
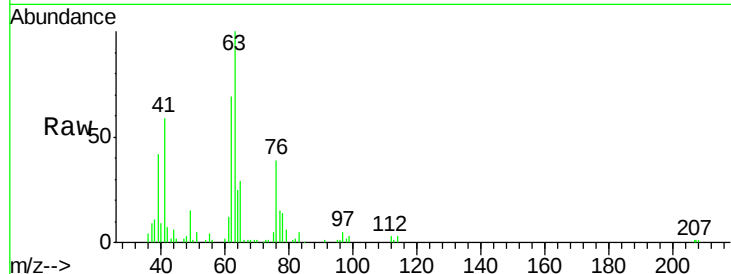
#45
 1,2-Dichloropropane
 Concen: 5.20 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 72626
 Ion Ratio Lower Upper
 63 100
 65 29.2 24.8 37.2

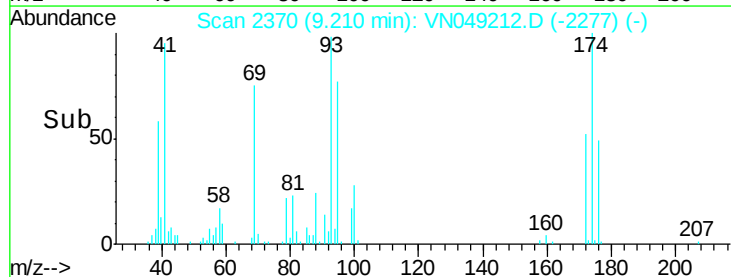
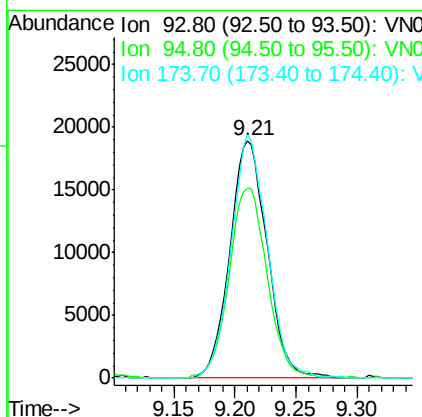
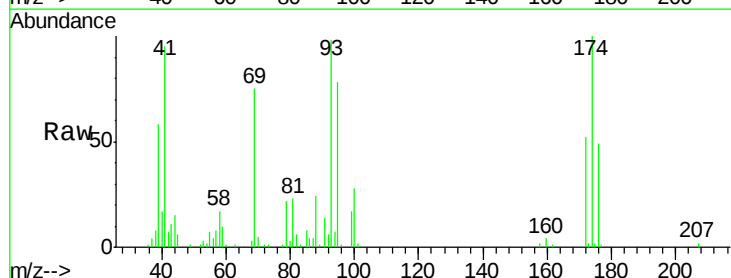
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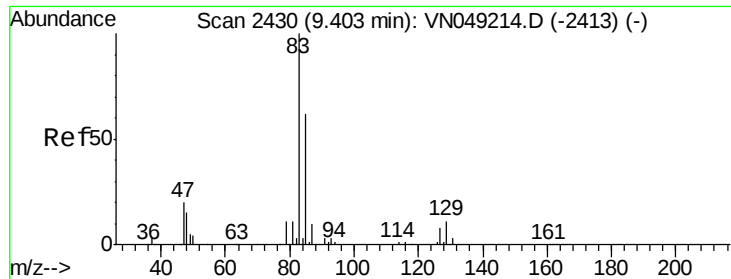
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#46
 Dibromomethane
 Concen: 5.16 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Tgt Ion: 93 Resp: 40184
 Ion Ratio Lower Upper
 93 100
 95 81.9 67.2 100.8
 174 99.1 75.6 113.4





#47

Bromodichloromethane

Concen: 5.26 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

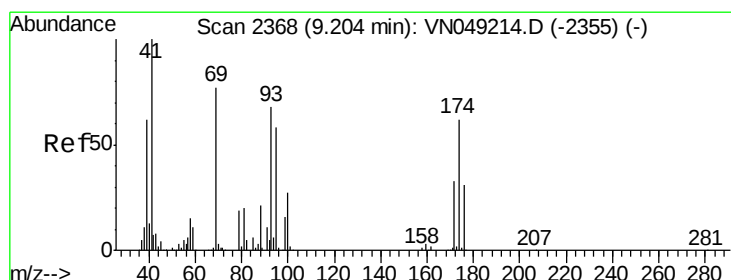
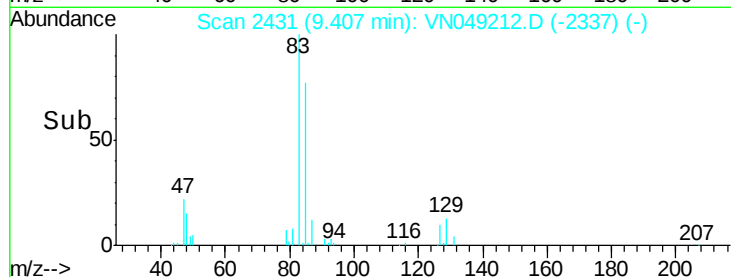
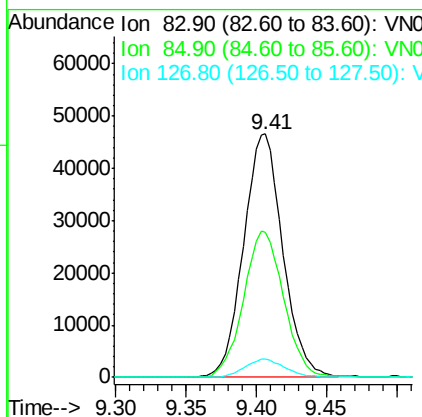
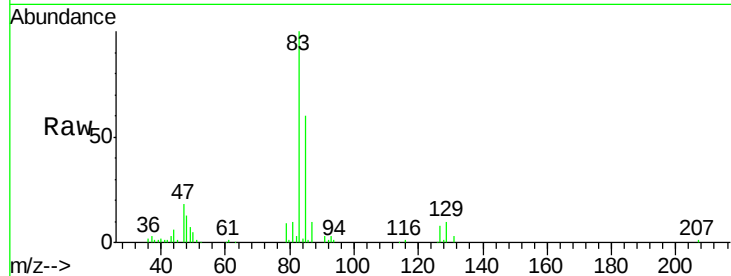
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	90777
Ion	Ratio	Lower	Upper
83	100		
85	59.7	49.4	74.0
127	7.6	6.3	9.5

Manual Integrations
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#48

Methyl methacrylate

Concen: 4.52 ug/l

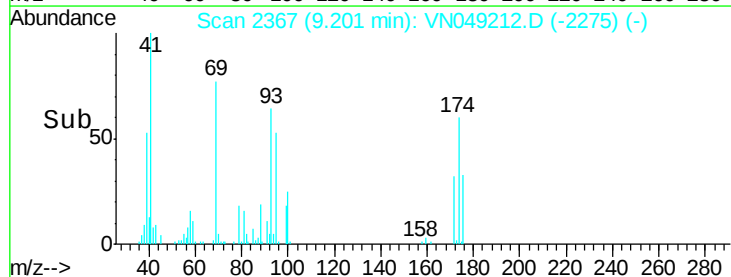
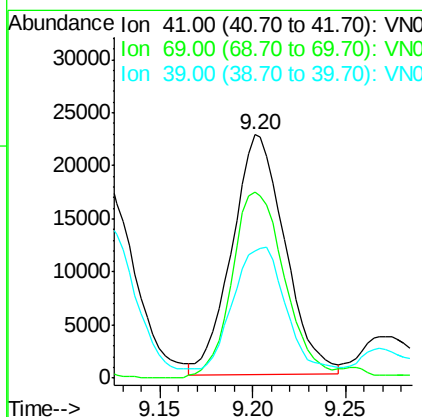
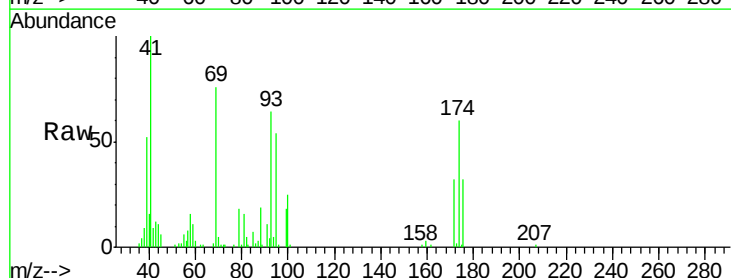
RT: 9.20 min Scan# 2367

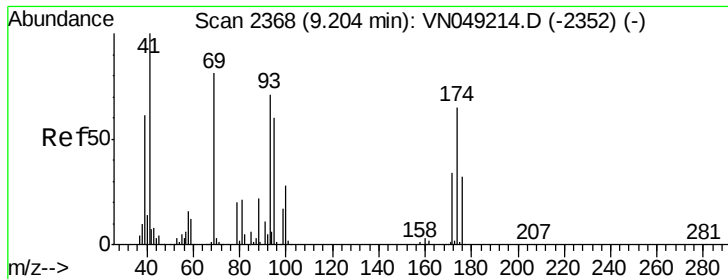
Delta R.T. -0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Tgt Ion:	41	Resp:	44971
Ion	Ratio	Lower	Upper
41	100		
69	76.9	62.0	93.0
39	56.1	50.6	75.8





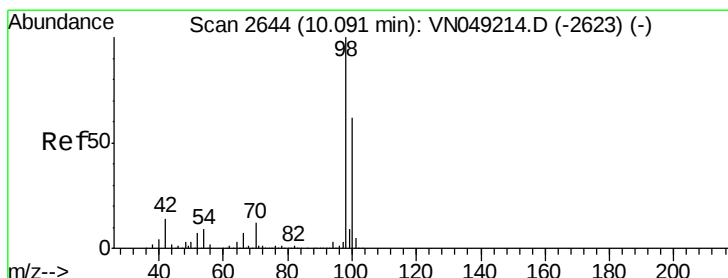
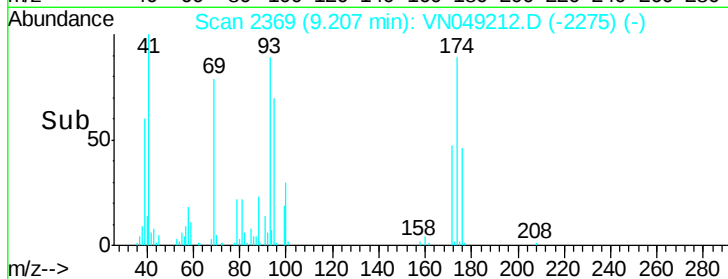
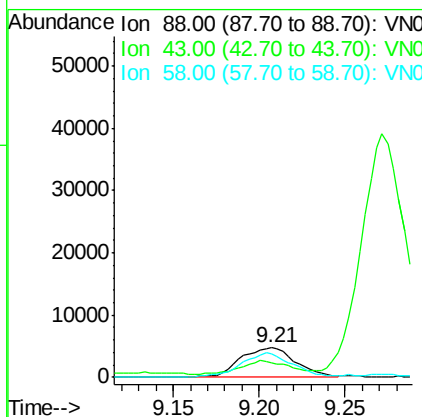
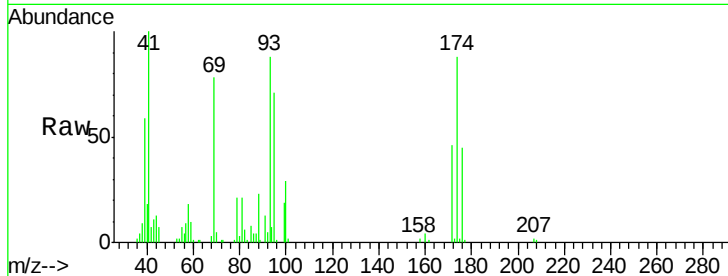
#49
1,4-Dioxane
Concen: 95.59 ug/l
RT: 9.21 min Scan# 2369
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	88	Resp	10672
Ion	Ratio	Lower	Upper
88	100		
43	39.6	30.9	46.3
58	76.4	58.9	88.3

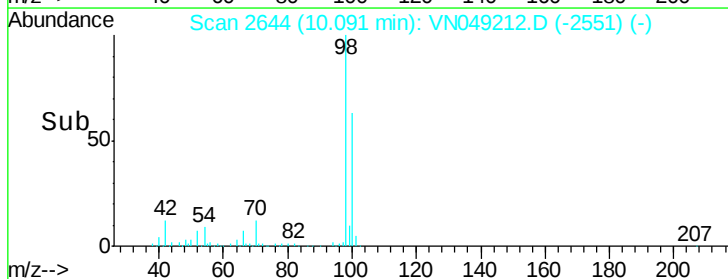
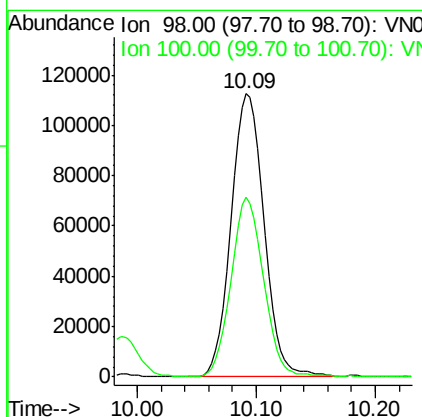
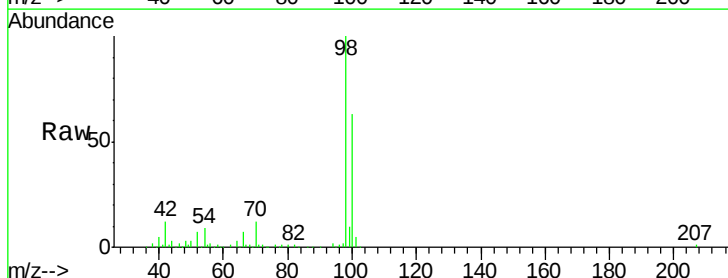
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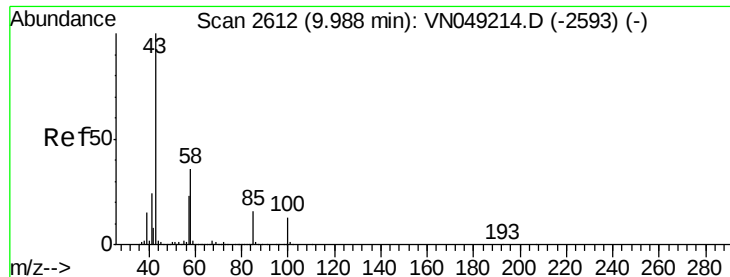
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#50
Toluene-d8
Concen: 4.99 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	98	Resp	216520
Ion	Ratio	Lower	Upper
98	100		
100	61.9	49.8	74.8





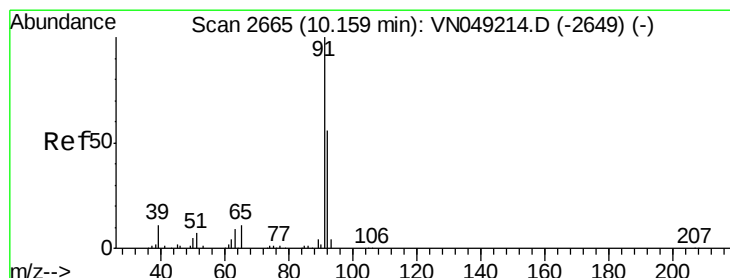
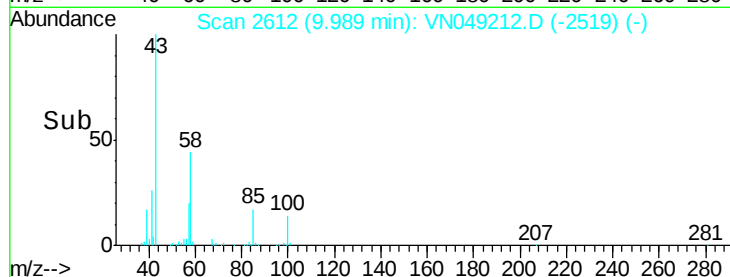
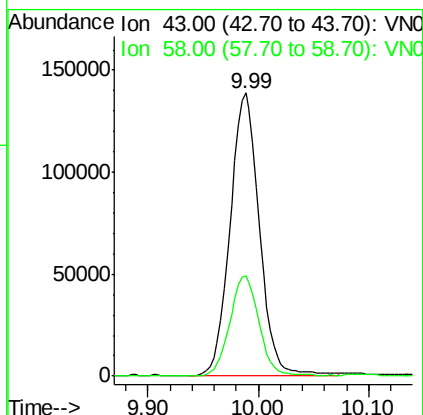
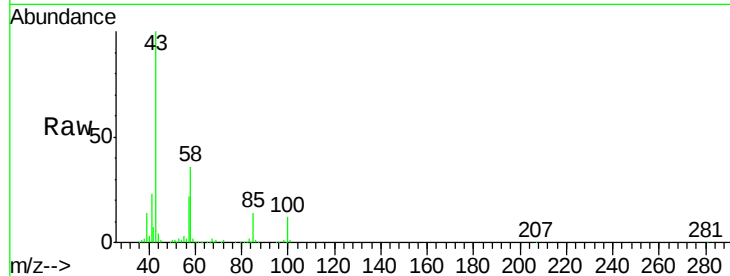
#51
4-Methyl-2-Pentanone
Concen: 23.14 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	43	Resp	254745
Ion	Ratio	Lower	Upper
43	100		
58	35.7	29.0	43.6

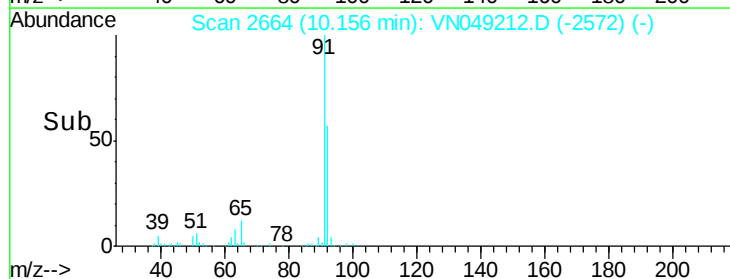
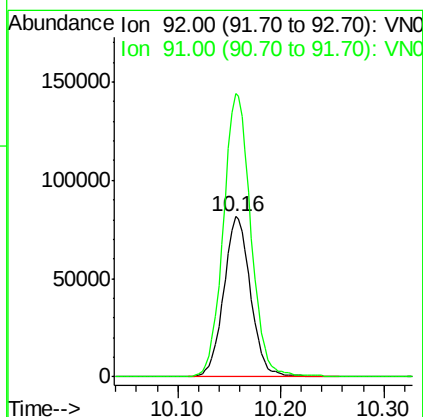
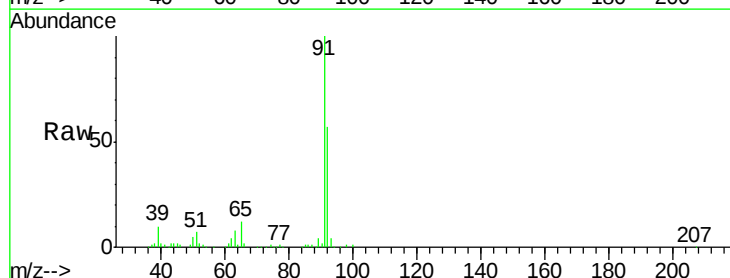
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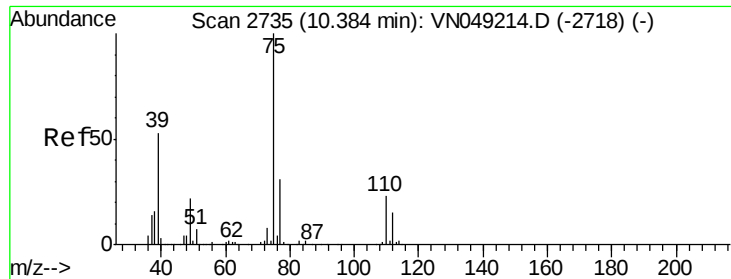
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#52
Toluene
Concen: 4.85 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. -0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	92	Resp	148351
Ion	Ratio	Lower	Upper
92	100		
91	180.8	143.4	215.2





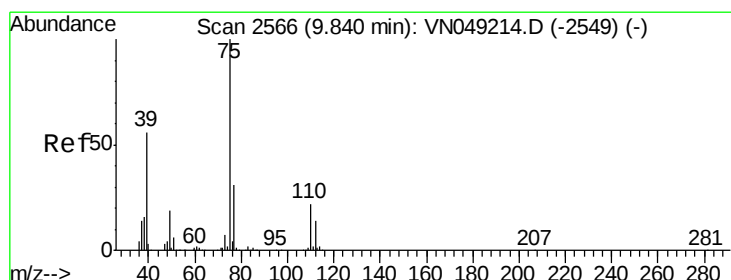
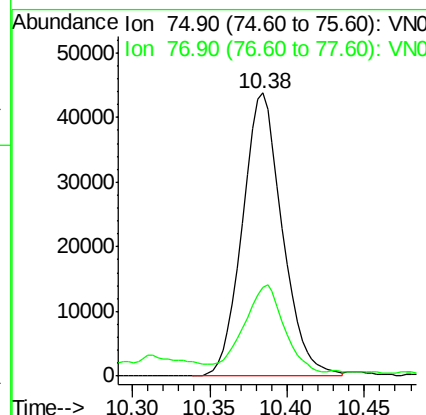
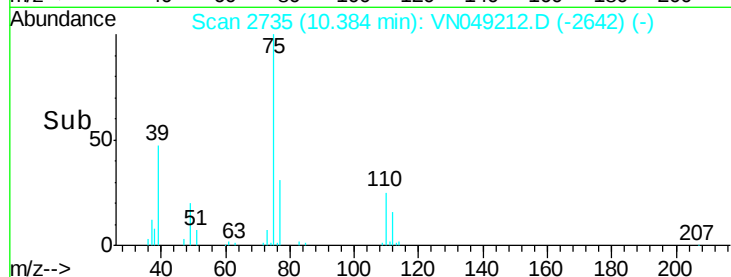
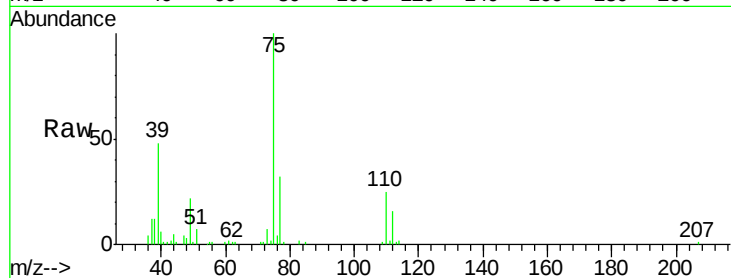
#53
t-1,3-Dichloropropene
Concen: 4.57 ug/l
RT: 10.38 min Scan# 2735
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 75 Resp: 78724
Ion Ratio Lower Upper
75 100
77 29.8 25.2 37.8

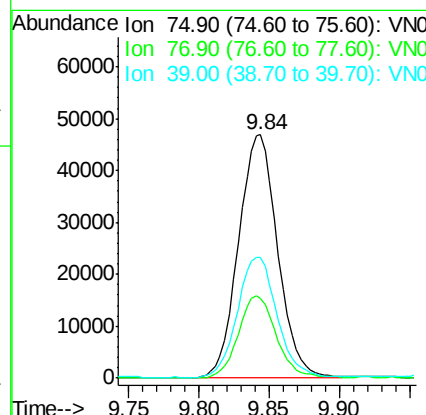
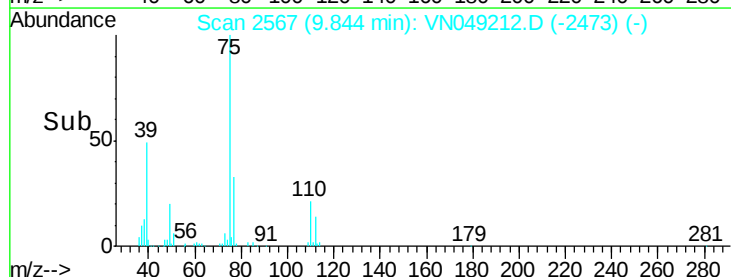
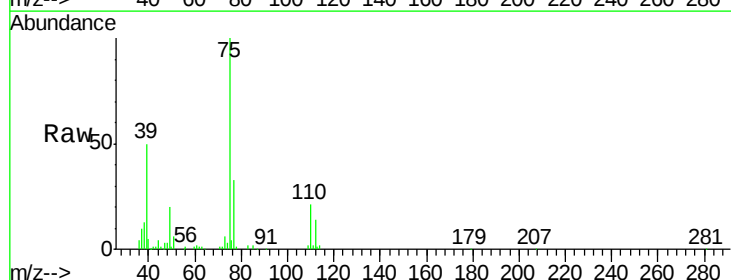
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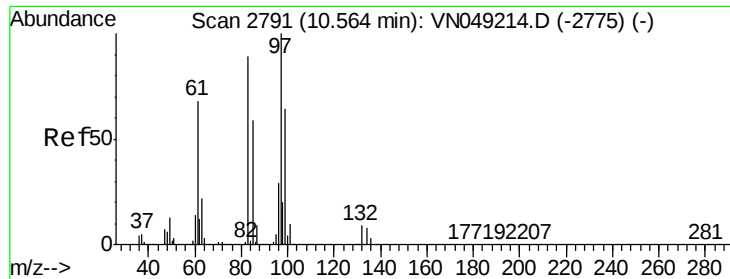
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#54
cis-1,3-Dichloropropene
Concen: 4.56 ug/l
RT: 9.84 min Scan# 2567
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion: 75 Resp: 91258
Ion Ratio Lower Upper
75 100
77 32.8 24.8 37.2
39 49.5 45.1 67.7





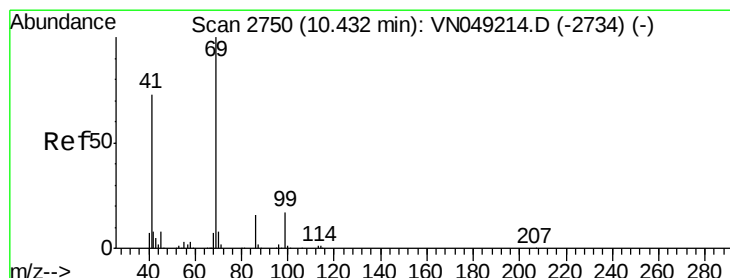
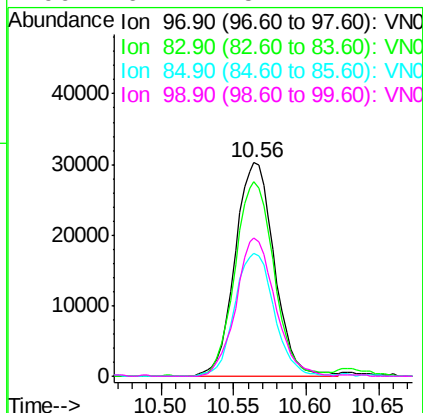
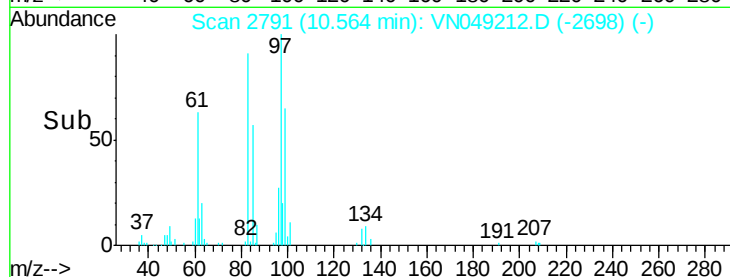
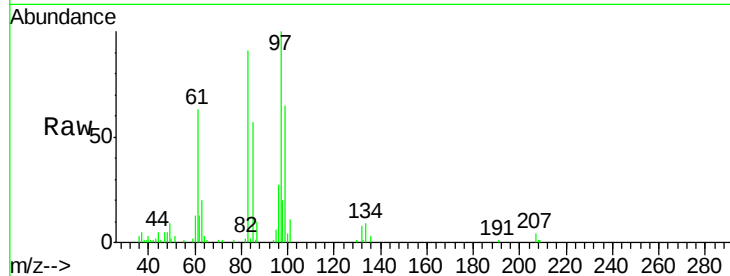
#55
 1,1,2-Trichloroethane
 Concen: 5.22 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	56893
Ion	Ratio	Lower	Upper
97	100		
83	90.9	71.5	107.3
85	57.3	47.0	70.4
99	64.7	51.4	77.2

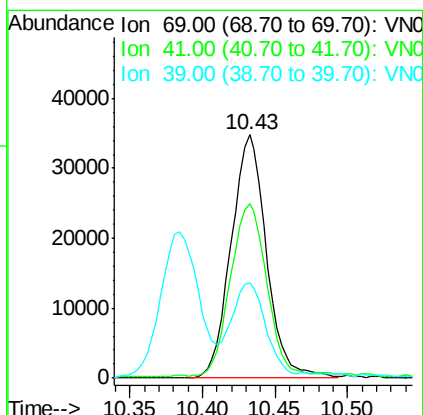
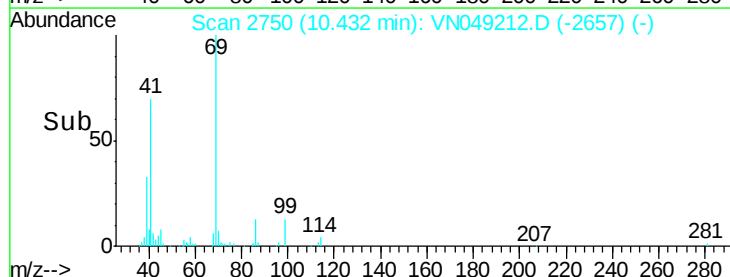
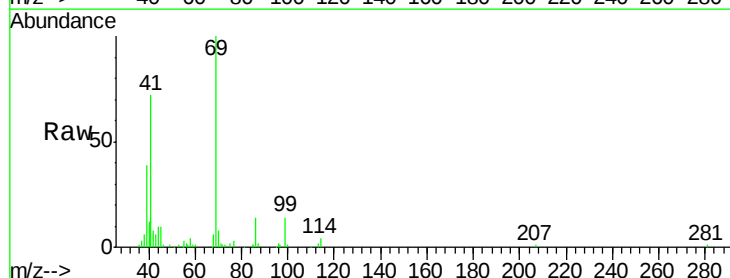
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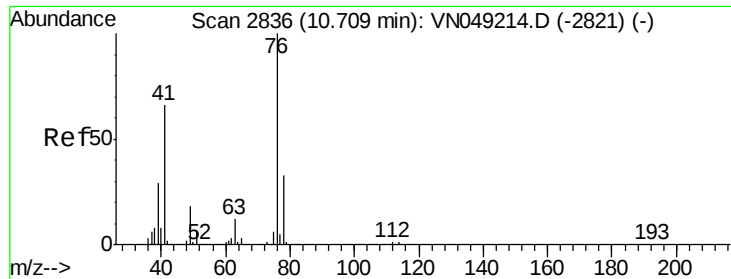
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#56
 Ethyl methacrylate
 Concen: 4.17 ug/l
 RT: 10.43 min Scan# 2750
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Tgt Ion:	69	Resp:	58997
Ion	Ratio	Lower	Upper
69	100		
41	71.8	58.4	87.6
39	37.4	35.5	53.3





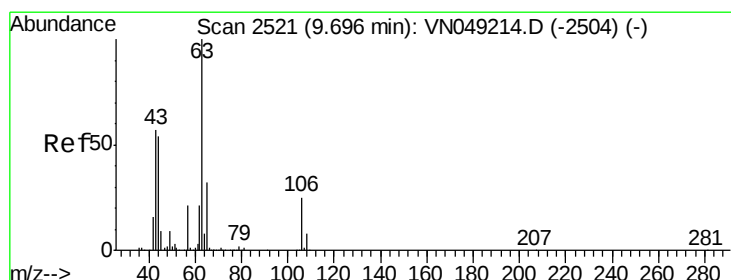
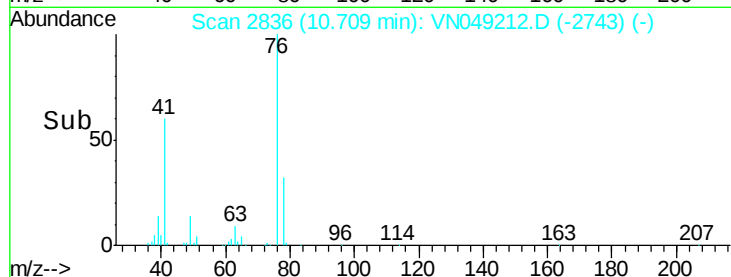
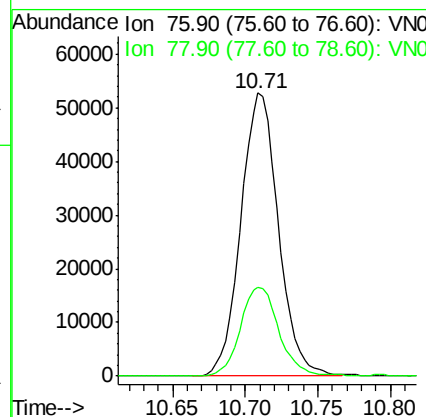
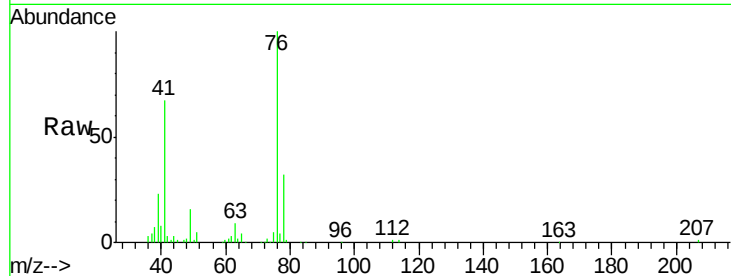
#57
 1,3-Dichloropropane
 Concen: 5.01 ug/l
 RT: 10.71 min Scan# 2836
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.3	39.5

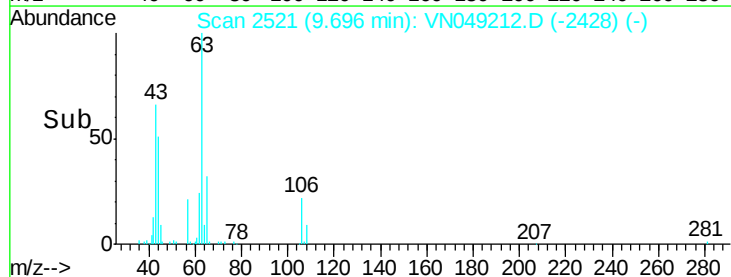
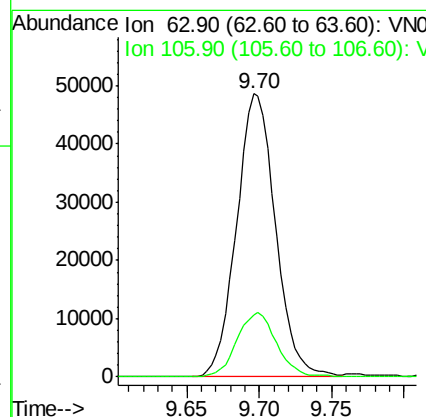
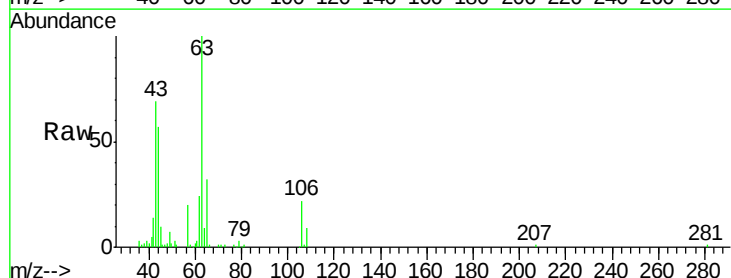
Manual Integrations
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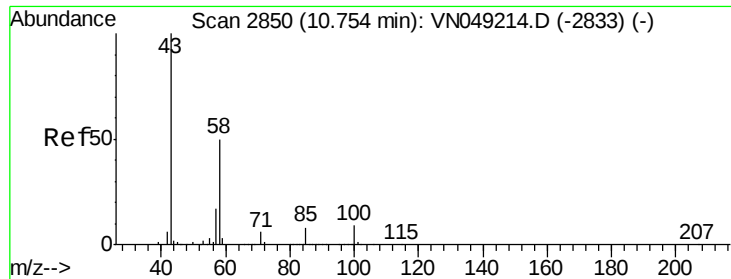
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#58
 2-Chloroethyl Vinyl ether
 Concen: 19.38 ug/l
 RT: 9.70 min Scan# 2521
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
63	100		
106	23.2	19.4	29.2





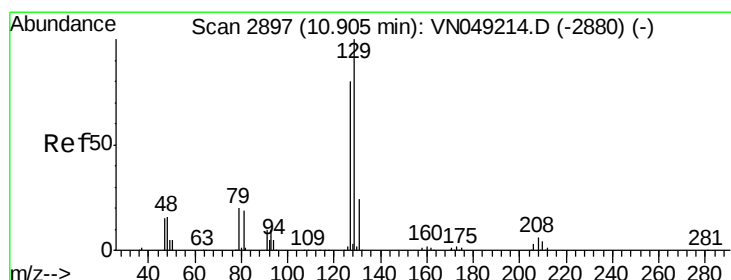
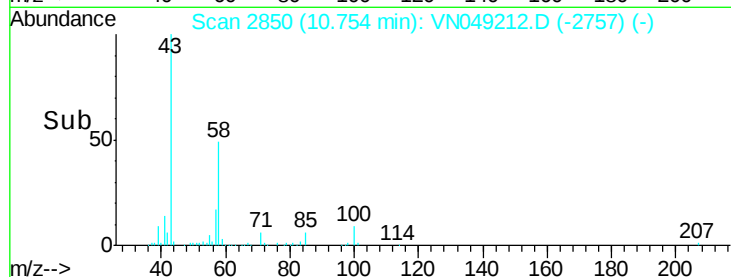
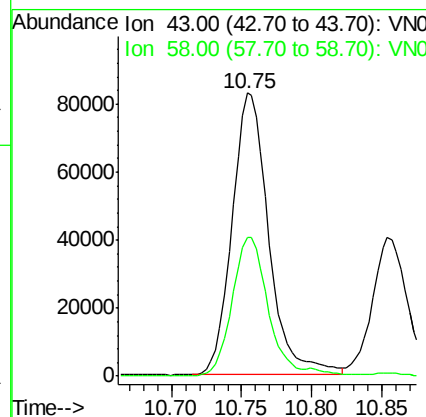
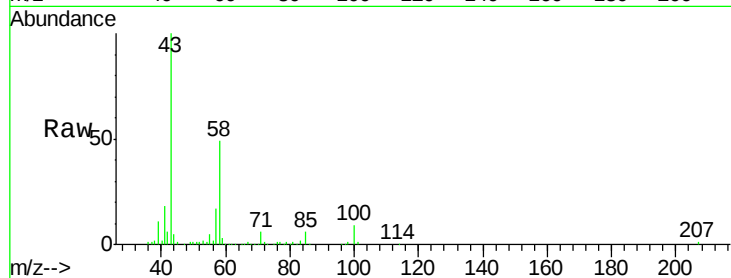
#59
2-Hexanone
Concen: 21.32 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	43	Resp	151061
Ion Ratio	43	100	Lower Upper
	58	49.6	25.2 75.6

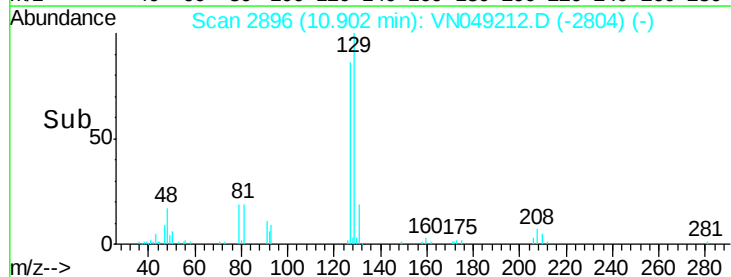
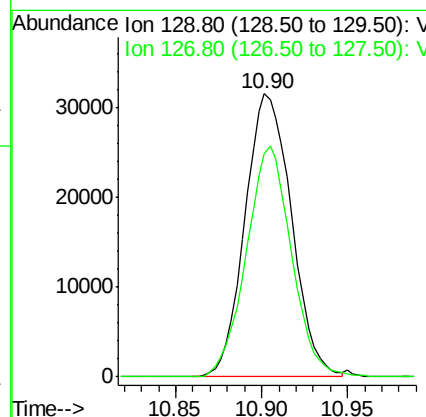
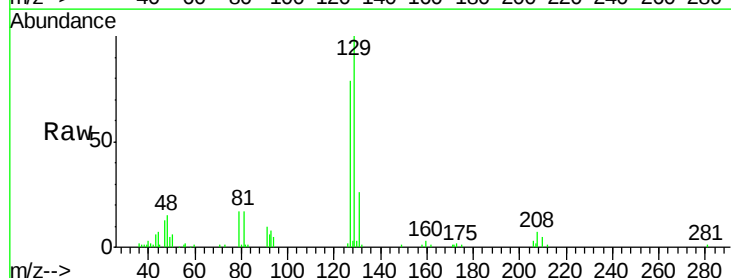
Manual Integrations
APPROVED

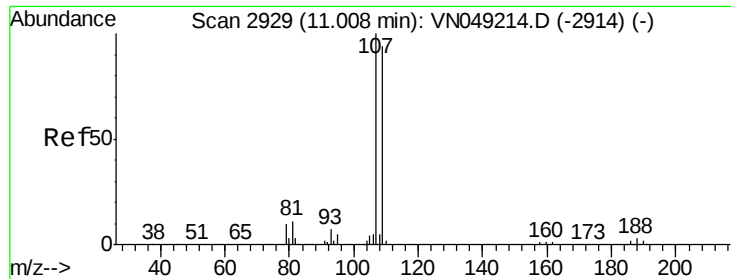
apatel
6/14/2018 5:07:12 PM



#60
Dibromochloromethane
Concen: 4.86 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	129	Resp	59125
Ion Ratio	129	100	Lower Upper
	127	79.2	39.1 117.2





#61

1,2-Dibromoethane

Concen: 4.92 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 107 Resp: 50214

Ion Ratio Lower Upper

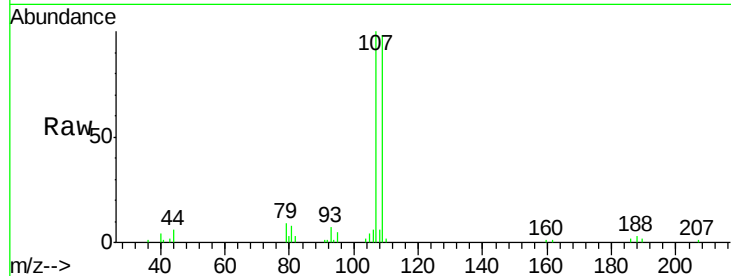
107 100

109 96.7 75.4 113.2

Manual Integrations
APPROVED

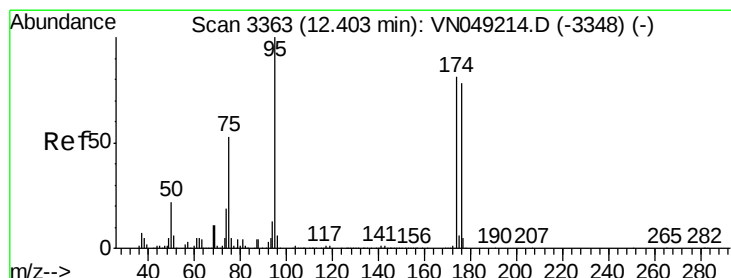
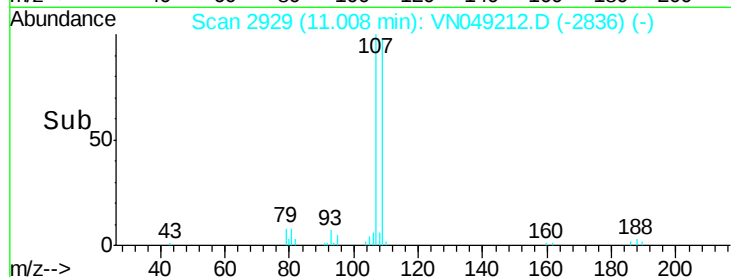
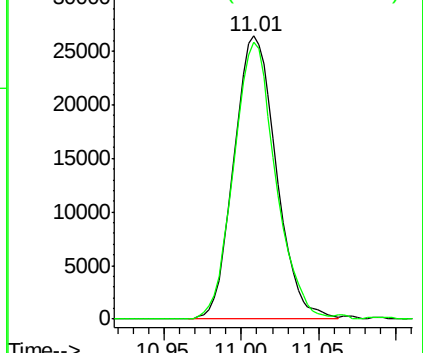
apatel

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 4.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

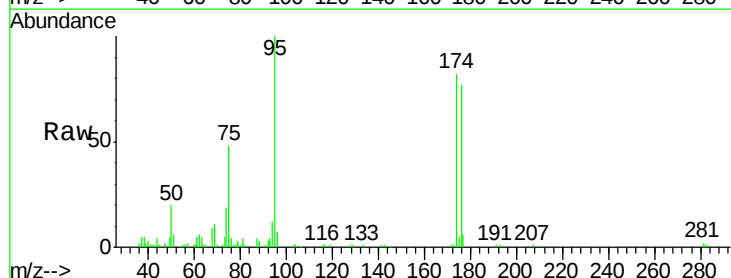
Tgt Ion: 95 Resp: 63593

Ion Ratio Lower Upper

95 100

174 82.8 0.0 165.6

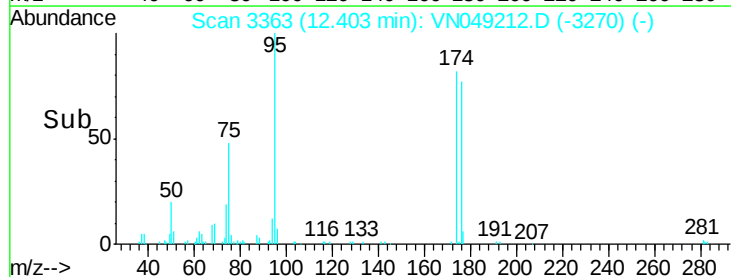
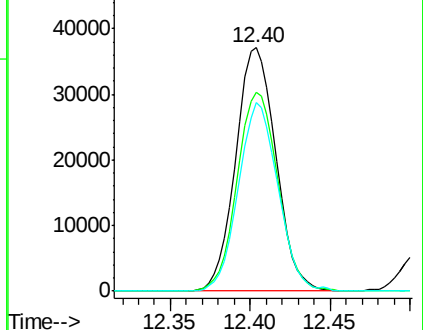
176 76.1 0.0 157.4

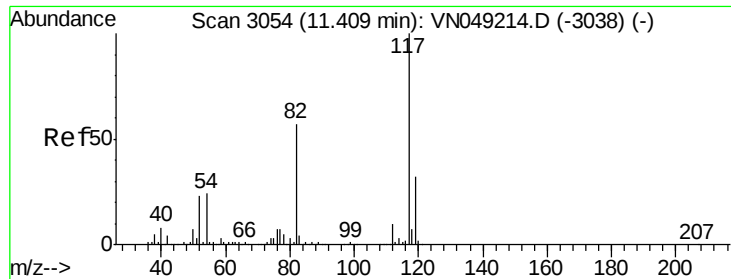


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:117 Resp: 1237550

Ion Ratio Lower Upper

117 100

82 55.1 45.9 68.9

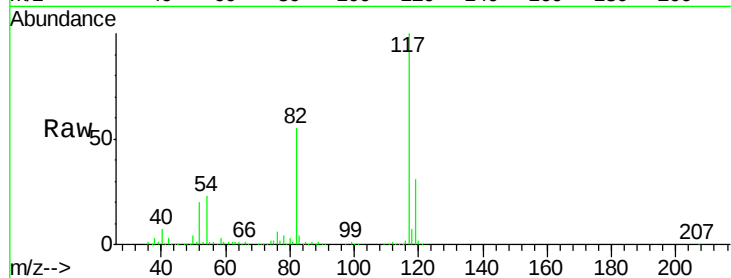
119 31.2 25.5 38.3

Manual Integrations

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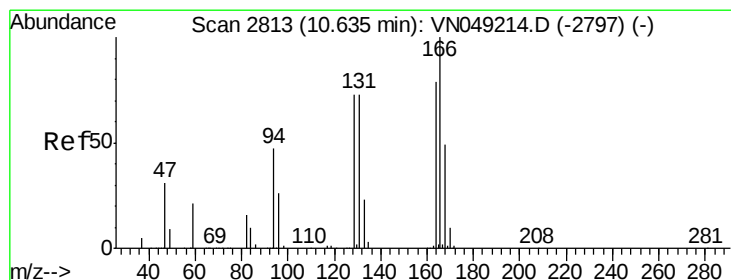
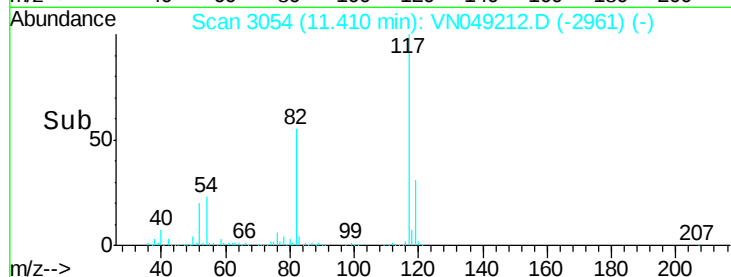
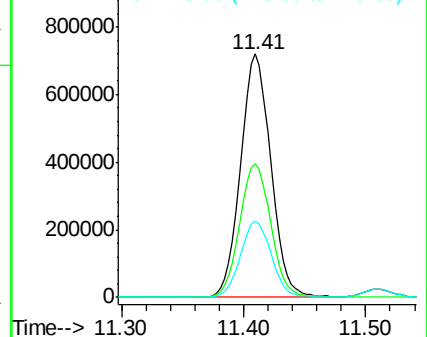
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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 5.51 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Tgt Ion:164 Resp: 65897

Ion Ratio Lower Upper

164 100

166 123.1 101.4 152.2

129 97.2 74.1 111.1

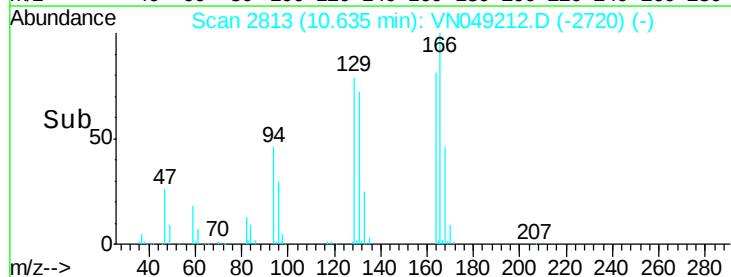
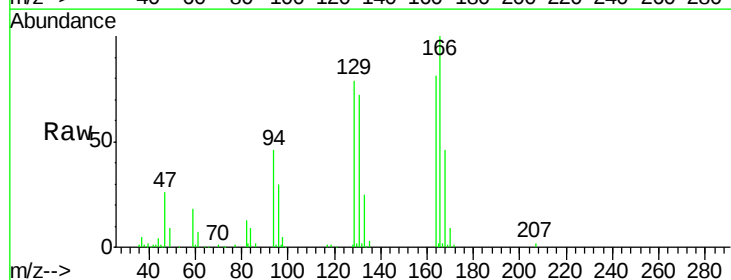
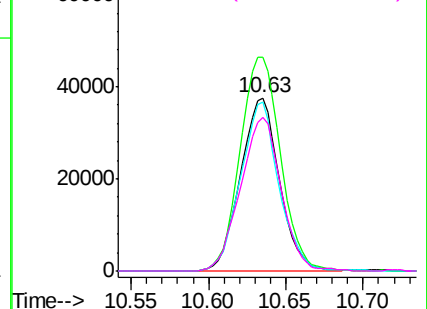
131 88.7 73.7 110.5

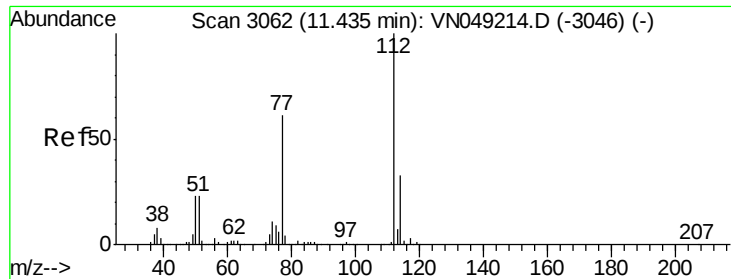
Abundance Ion 163.80 (163.50 to 164.50): V

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: 5.18 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion:112 Resp: 164963

Ion Ratio Lower Upper

112 100

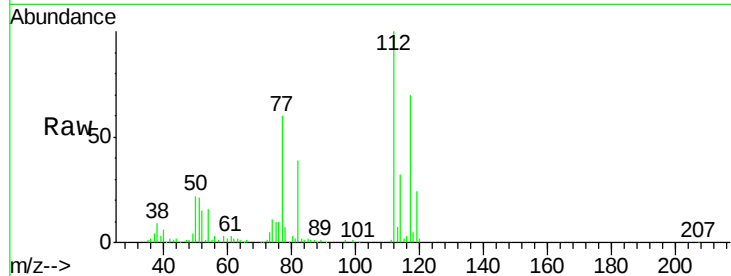
114 32.4 26.2 39.4

Manual Integrations

APPROVED

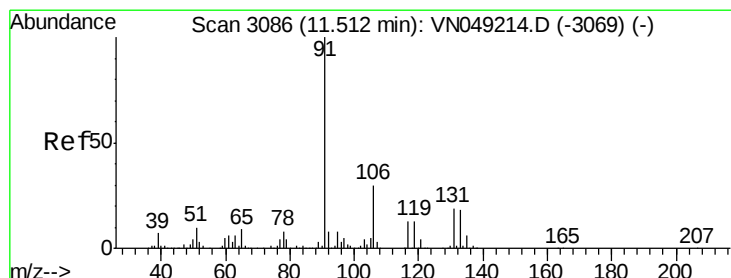
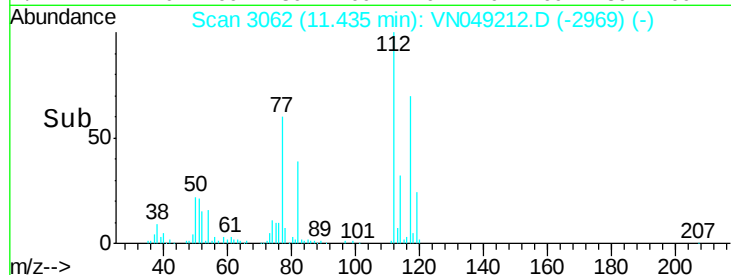
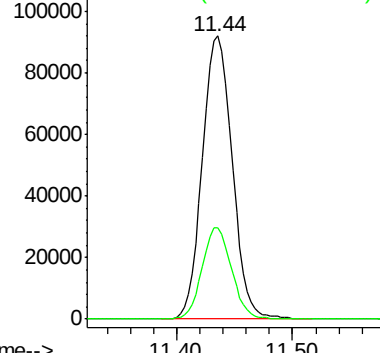
apatel

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 5.27 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

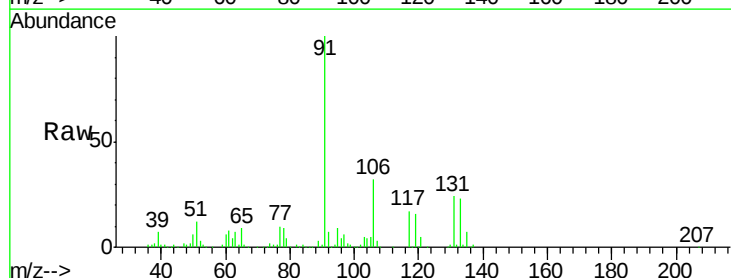
Tgt Ion:131 Resp: 62634

Ion Ratio Lower Upper

131 100

133 94.5 48.0 144.2

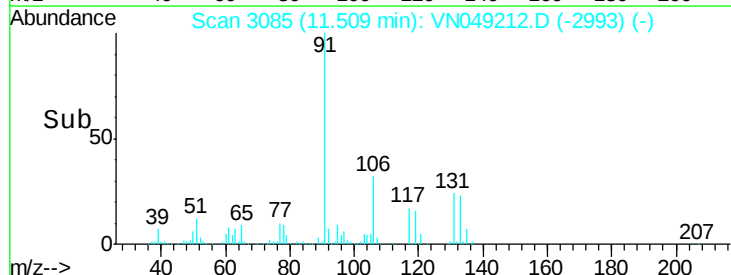
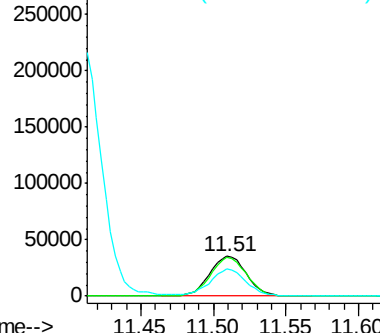
119 66.6 33.6 100.8

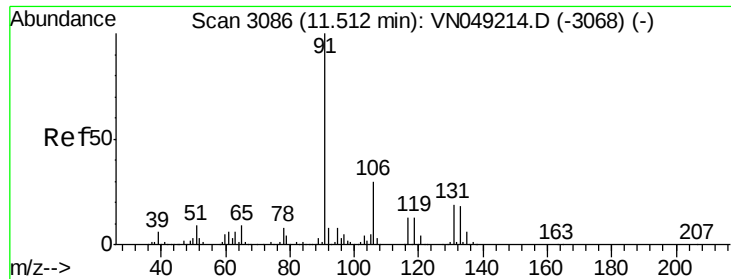


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





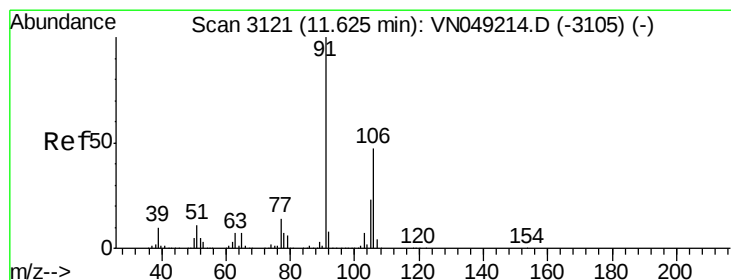
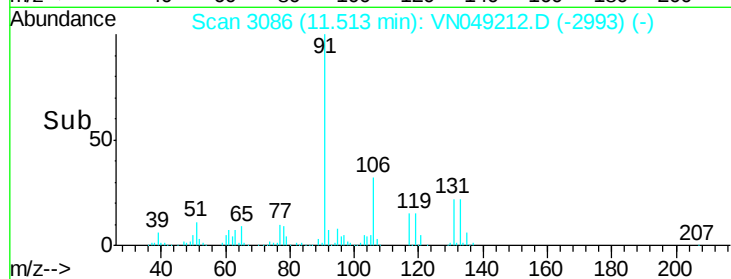
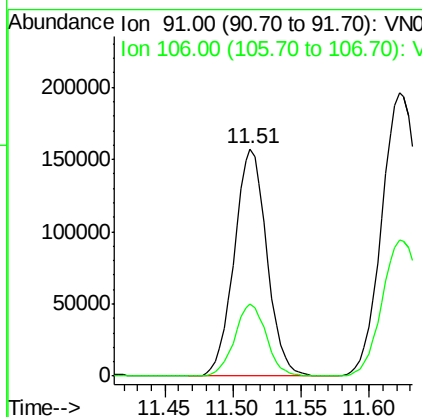
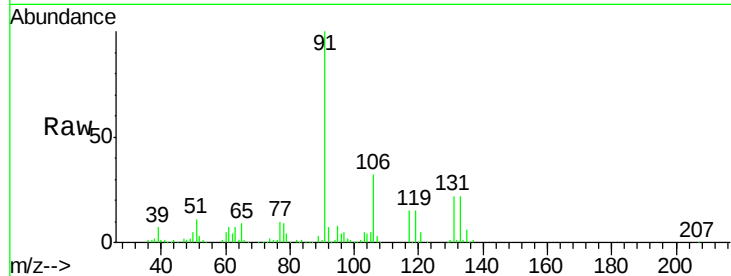
#67
Ethyl Benzene
Concen: 4.61 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion: 91 Resp: 261174
Ion Ratio Lower Upper
91 100
106 31.8 23.9 35.9

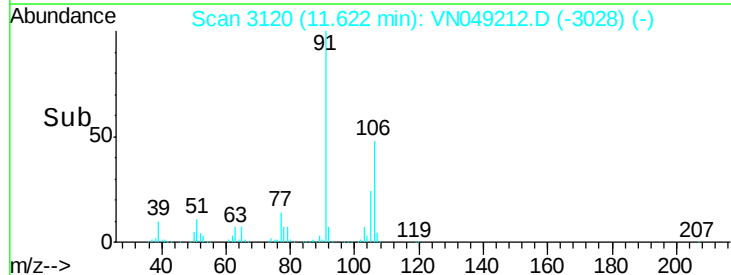
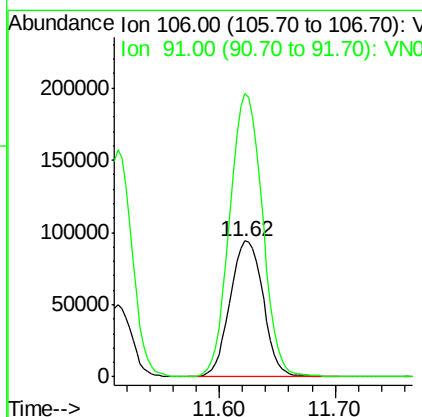
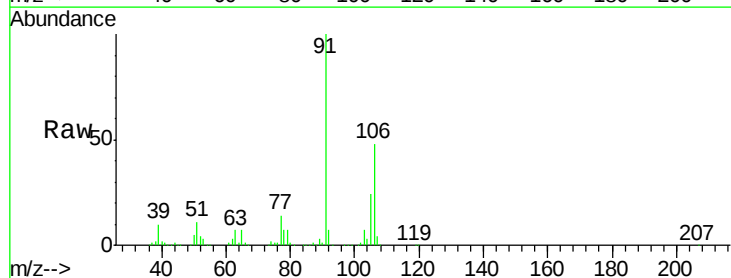
Manual Integrations
APPROVED

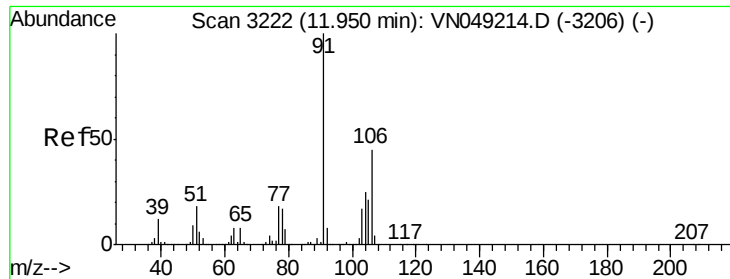
apatel
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#68
m/p-Xylenes
Concen: 8.87 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. -0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion: 106 Resp: 186680
Ion Ratio Lower Upper
106 100
91 204.8 167.3 250.9





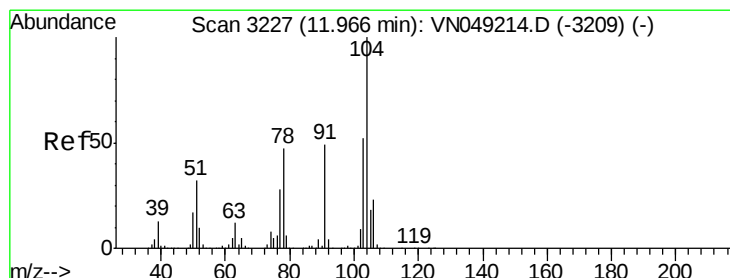
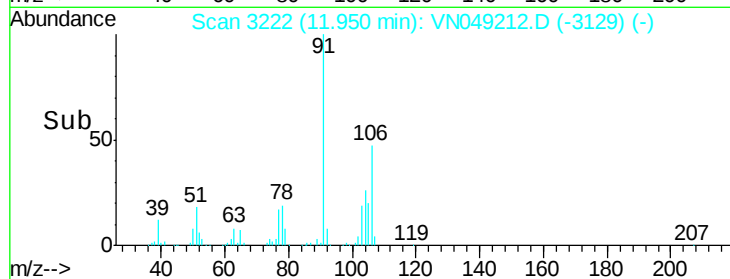
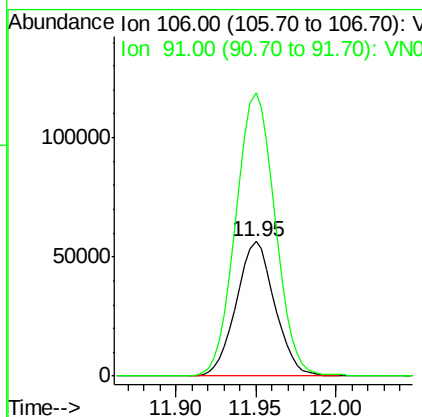
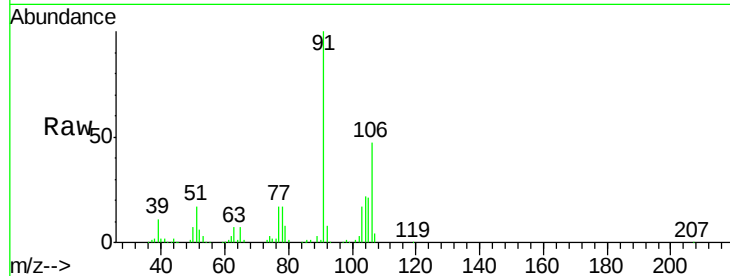
#69
o-Xylene
Concen: 4.57 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion:106 Resp: 92509
Ion Ratio Lower Upper
106 100
91 214.2 111.0 333.0

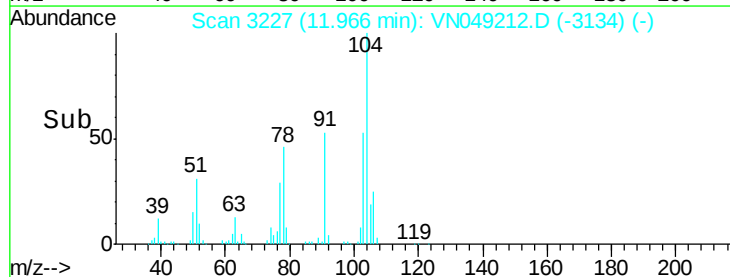
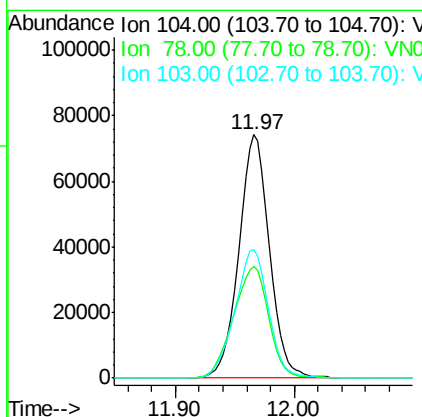
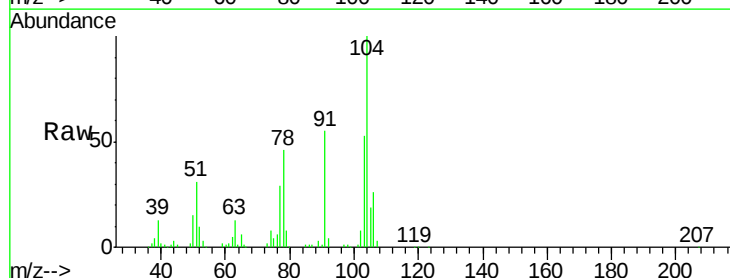
Manual Integrations
APPROVED

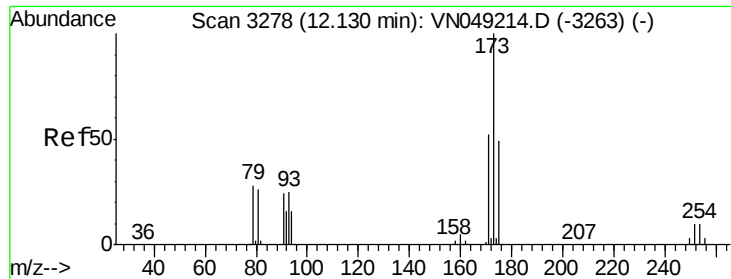
apatel
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#70
Styrene
Concen: 4.06 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion:104 Resp: 131925
Ion Ratio Lower Upper
104 100
78 53.1 41.6 62.4
103 58.2 45.4 68.2





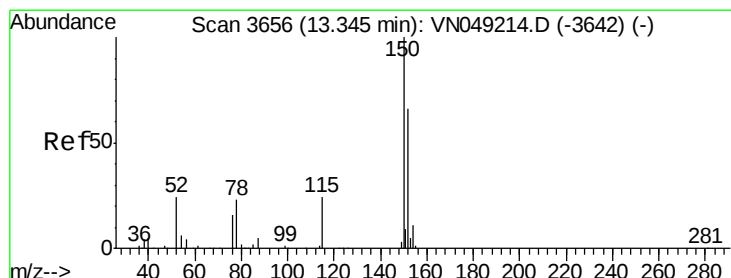
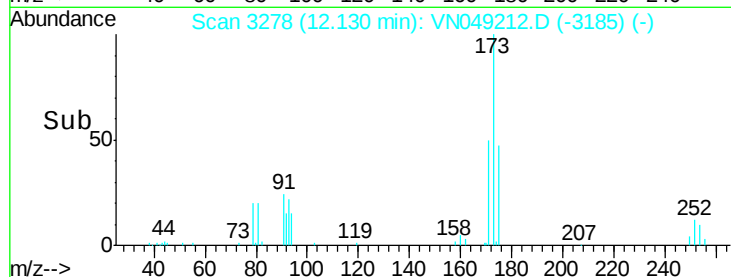
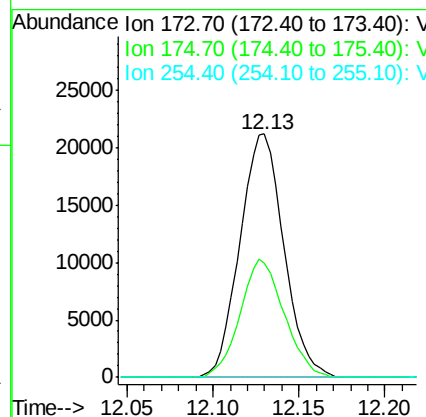
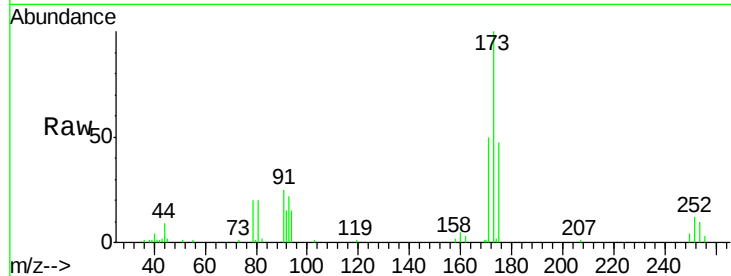
#71
Bromoform
Concen: 4.83 ug/l
RT: 12.13 min Scan# 3278
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.5	73.5
254	0.0	0.1	0.1#

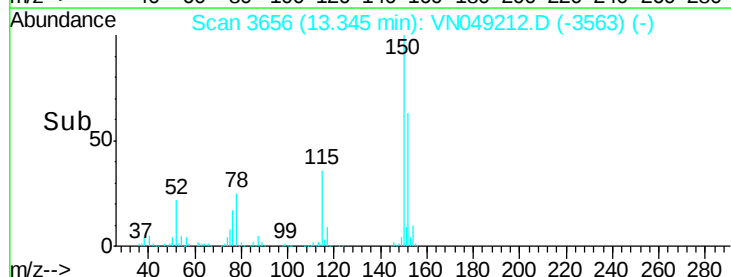
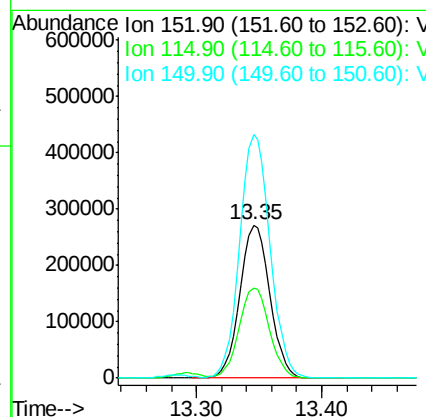
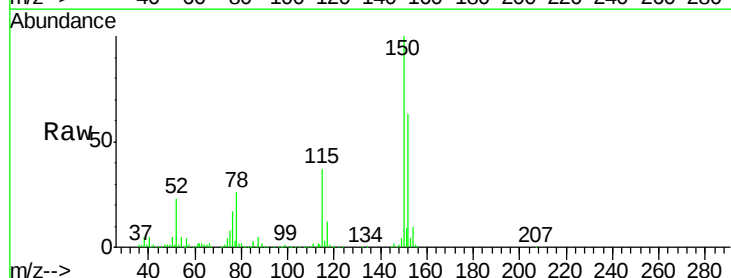
Manual Integrations
APPROVED

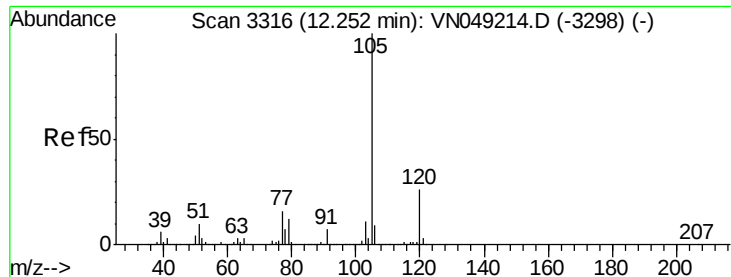
apatel
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#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.9	28.7	86.1
150	161.4	0.0	351.0





#73

Isopropylbenzene

Concen: 5.73 ug/l

RT: 12.25 min Scan# 3316

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 239532

Ion Ratio Lower Upper

105 100

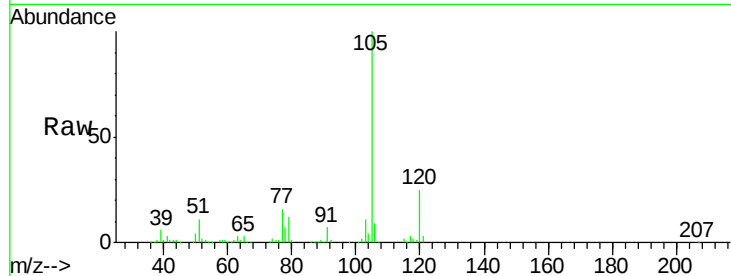
120 25.2 12.8 38.3

Manual Integrations

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apatel

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

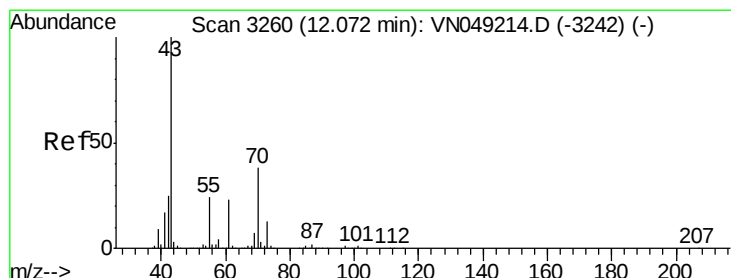
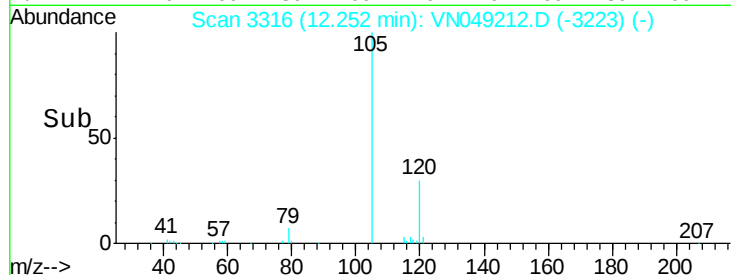
150000

100000

50000

0

Time-->



#74

N-ethyl acetate

Concen: 4.94 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Tgt Ion: 43 Resp: 61383

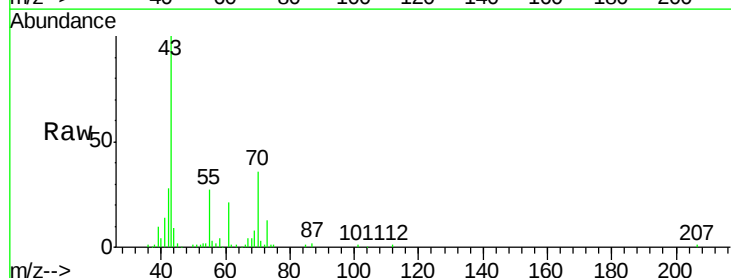
Ion Ratio Lower Upper

43 100

70 35.7 30.3 45.5

55 26.2 19.4 29.2

61 21.7 17.8 26.6



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

50000

40000

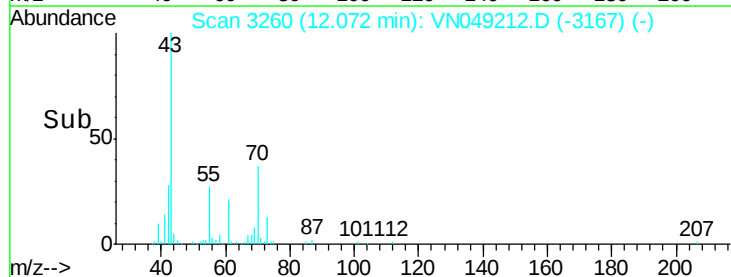
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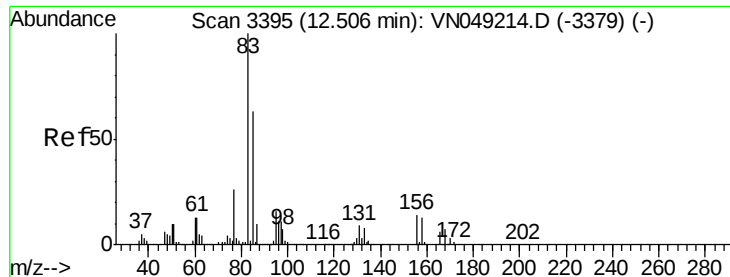
20000

10000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 6.55 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

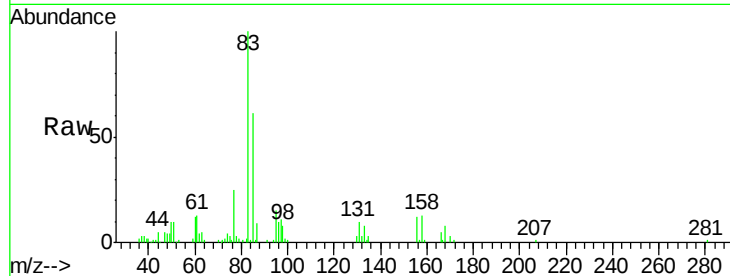
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	66846
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.0	15.0
85	60.7	32.0	96.0

Manual Integrations
APPROVED

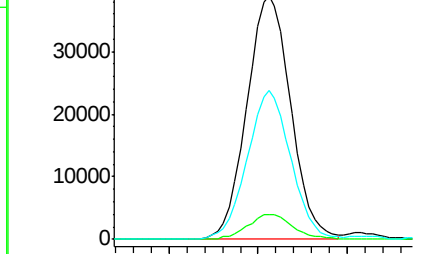
apatel
6/14/2018 5:07:12 PM



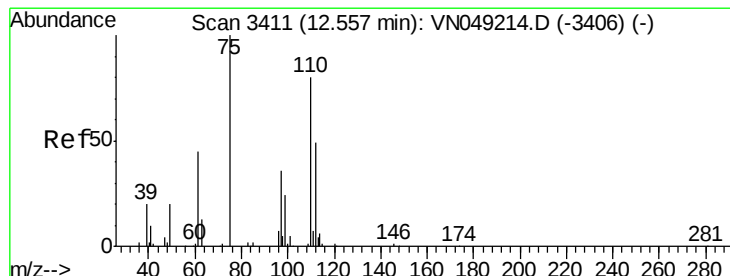
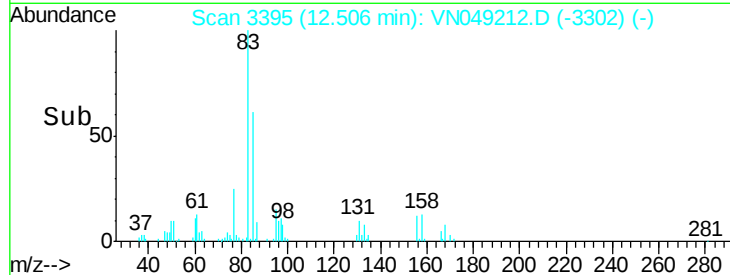
Abundance Ion 82.90 (82.60 to 83.60): VN049212.D (-3379) (-)

Ion 130.80 (130.50 to 131.50): VN049212.D (-3379) (-)

Ion 84.90 (84.60 to 85.60): VN049212.D (-3379) (-)



Time-->



#76

1,2,3-Trichloropropane

Concen: 6.23 ug/l m

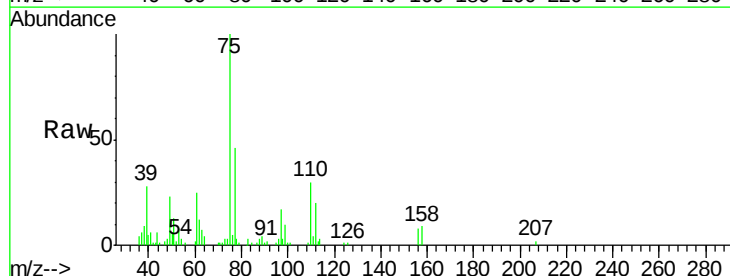
RT: 12.55 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN049212.D

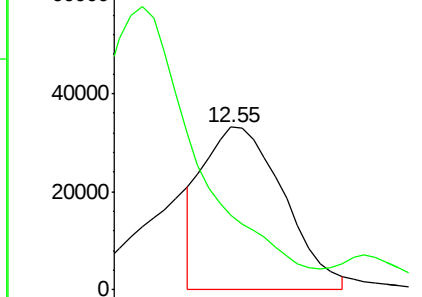
Acq: 13 Jun 2018 20:35

Tgt Ion:	75	Resp:	54047
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0

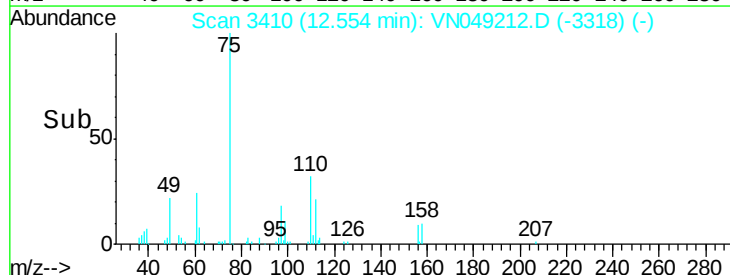


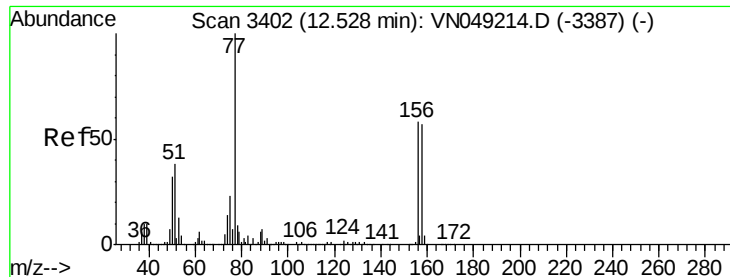
Abundance Ion 74.90 (74.60 to 75.60): VN049212.D (-3406) (-)

Ion 77.00 (76.70 to 77.70): VN049212.D (-3406) (-)



Time-->





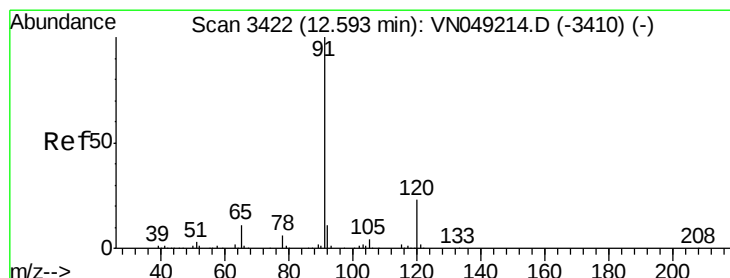
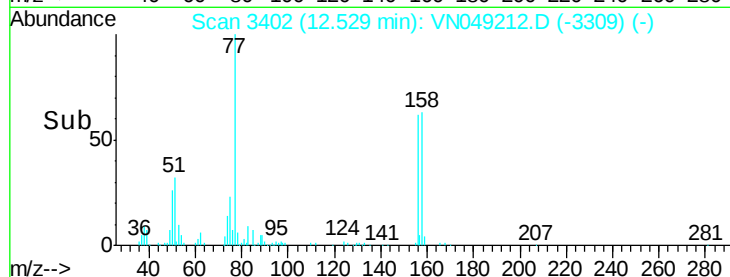
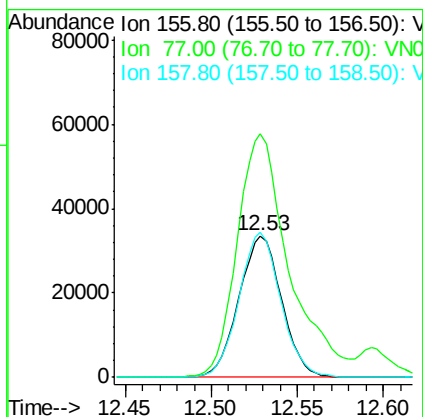
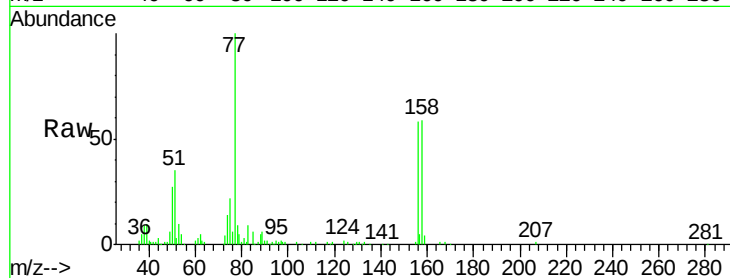
#77
Bromobenzene
Concen: 5.88 ug/l
RT: 12.53 min Scan# 3402
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
156	100		
77	209.5	100.8	302.4
158	100.5	49.3	147.9

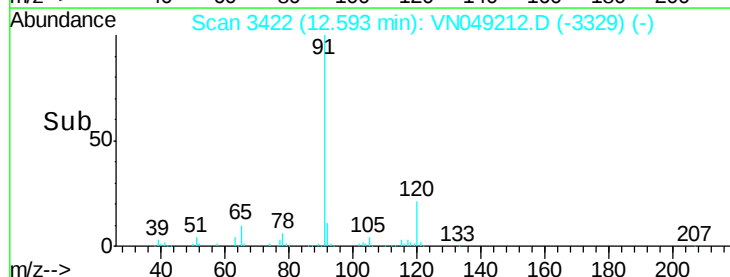
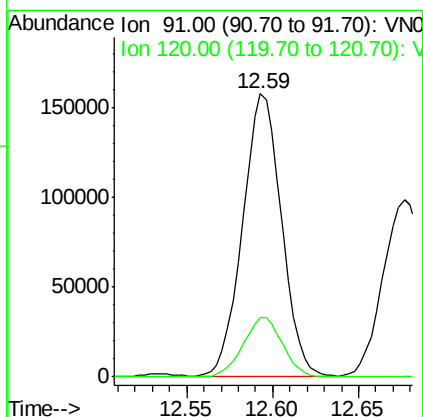
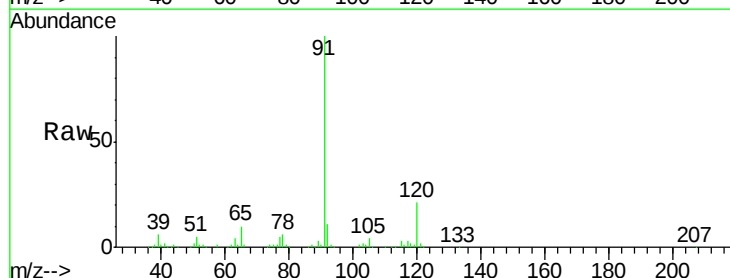
Manual Integrations
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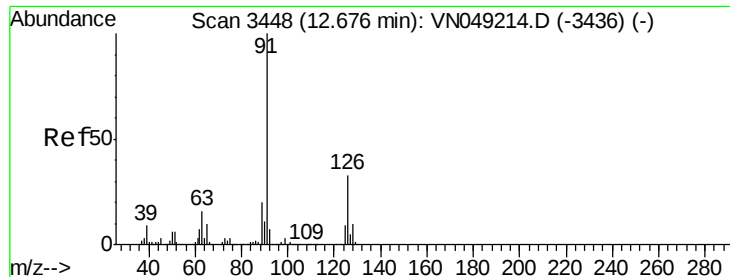
apatel
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#78
n-propylbenzene
Concen: 5.14 ug/l
RT: 12.59 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.6	11.2	33.5





#79

2-Chlorotoluene

Concen: 5.78 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampled :

VSTDIC005

Tot Ion: 91 Resp: 167608

Ion Ratio Lower Upper

91 100

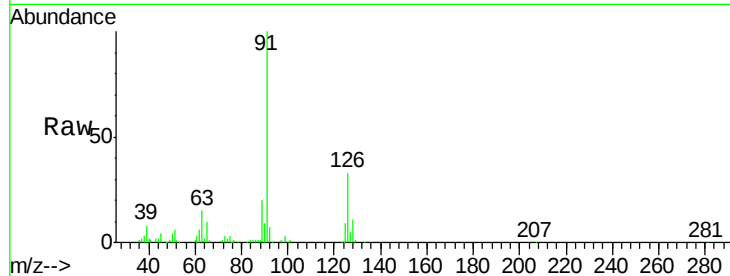
126 32.5 16.6 49.8

Manual Integrations

APPROVED

apatel

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Abundance Ion 91.00 (90.70 to 91.70): VN049212.D (-3436) (-)

Ion 125.90 (125.60 to 126.60): VN049212.D (-3436) (-)

120000

100000

80000

60000

40000

20000

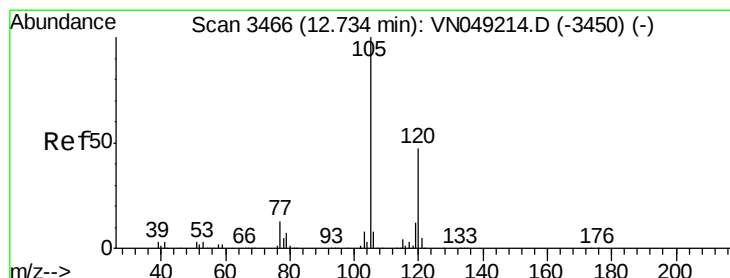
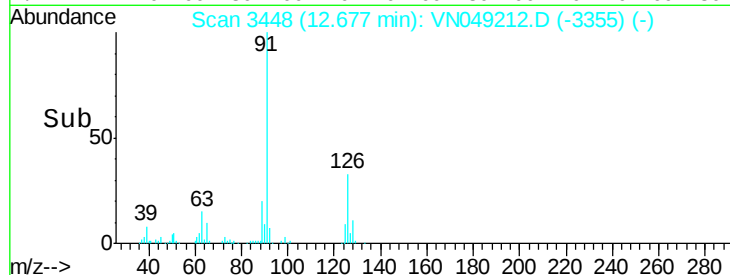
0

12.65

12.68

12.70

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 5.36 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049212.D

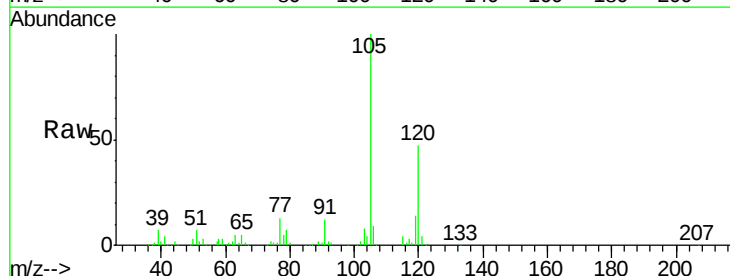
Acq: 13 Jun 2018 20:35

Tgt Ion: 105 Resp: 179141

Ion Ratio Lower Upper

105 100

120 46.7 23.5 70.5



Abundance Ion 105.00 (104.70 to 105.70): VN049212.D (-3450) (-)

Ion 120.00 (119.70 to 120.70): VN049212.D (-3450) (-)

120000

100000

80000

60000

40000

20000

0

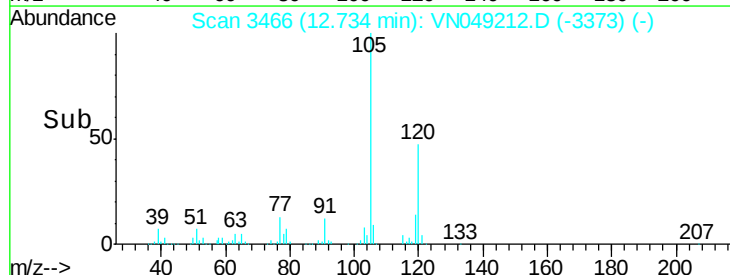
12.65

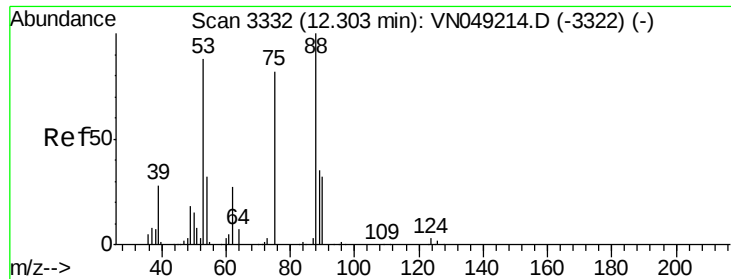
12.70

12.73

12.80

Time-->





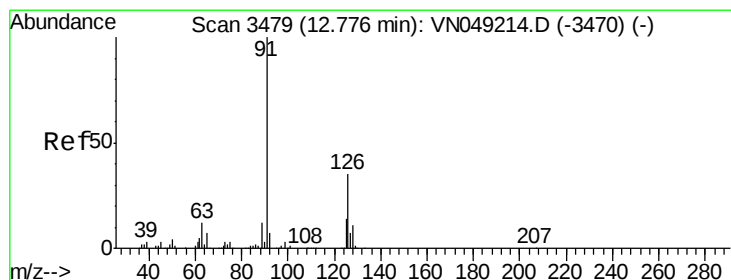
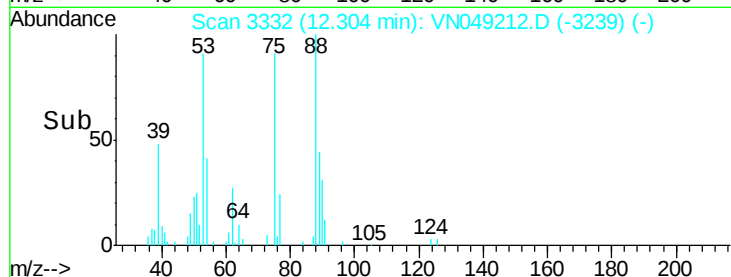
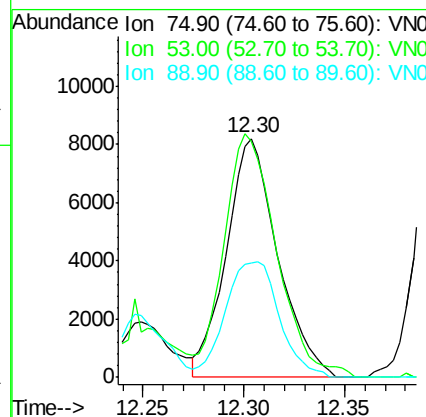
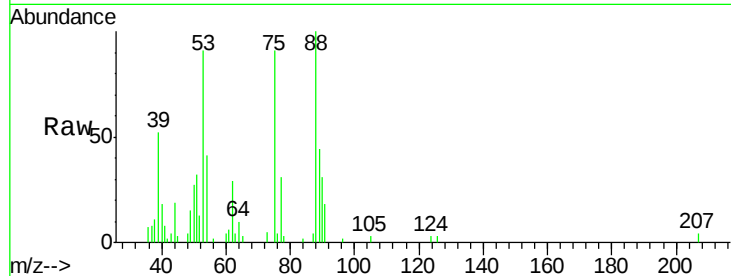
#81
trans-1,4-Dichloro-2-butene
Concen: 5.36 ug/l
RT: 12.30 min Scan# 3332
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	104.8	82.7	124.1
89	50.8	36.5	54.7

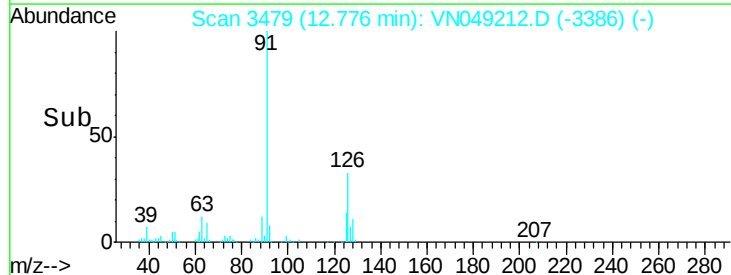
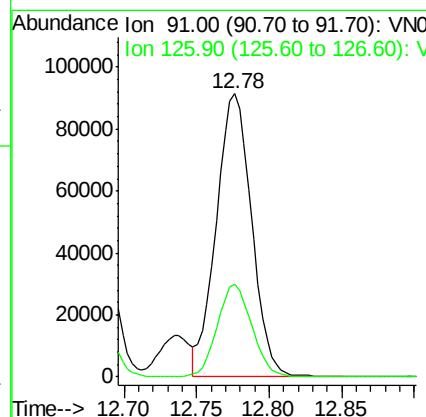
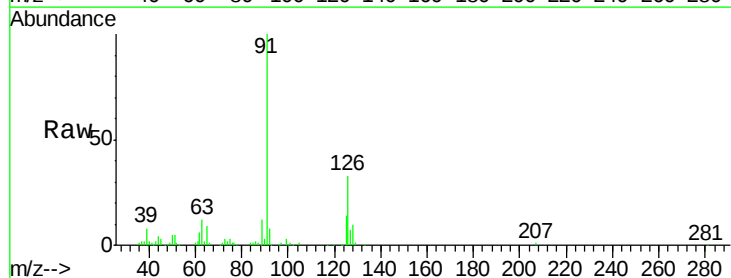
Manual Integrations
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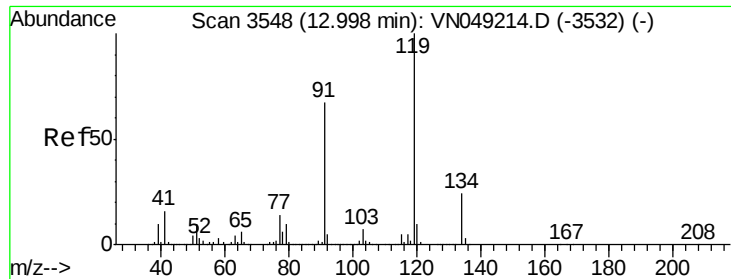
apatel
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#82
4-Chlorotoluene
Concen: 5.38 ug/l
RT: 12.78 min Scan# 3479
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.4	49.1





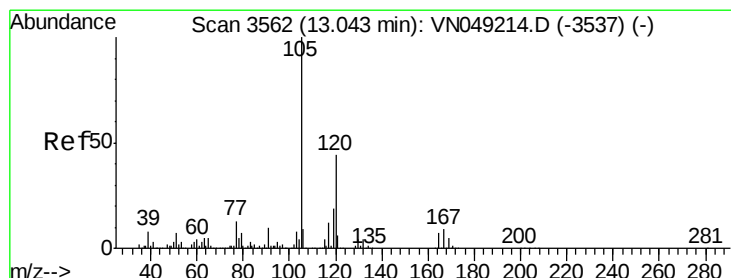
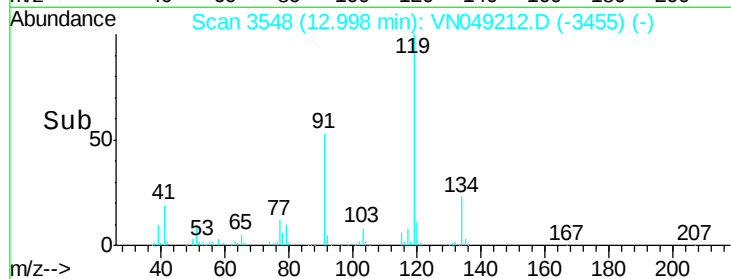
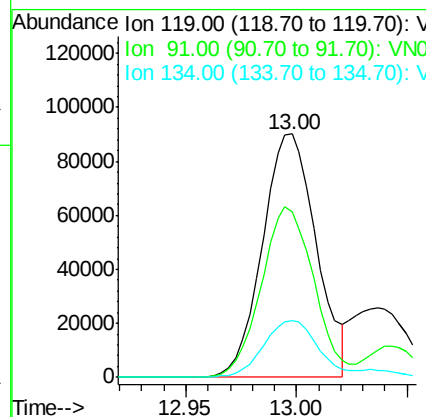
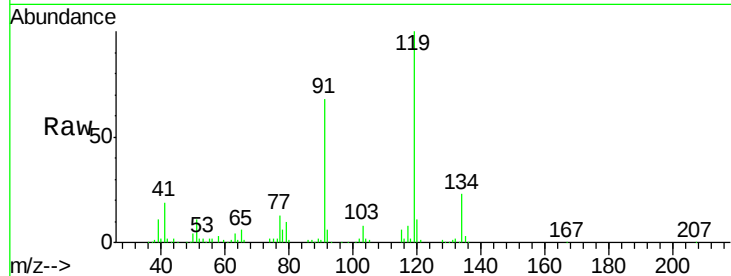
#83
tert-Butylbenzene
Concen: 5.42 ug/l
RT: 13.00 min Scan# 3548
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.4	33.7	101.0
134	23.8	12.9	38.6

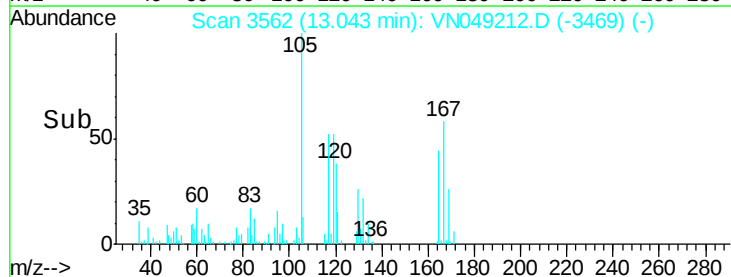
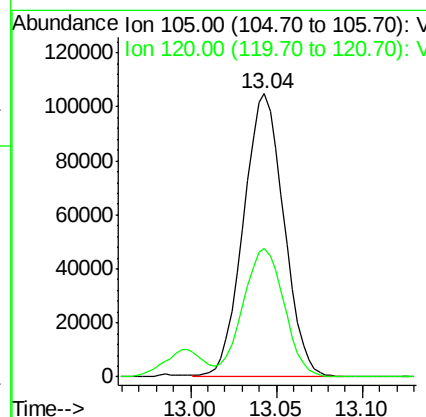
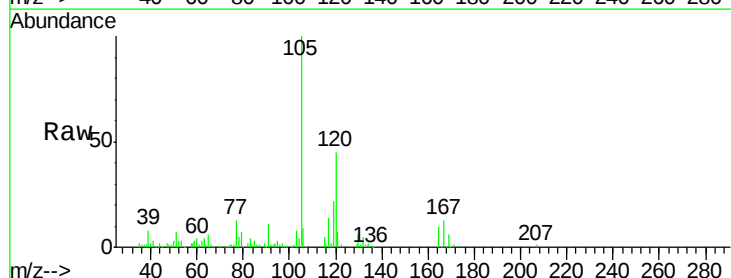
Manual Integrations
APPROVED

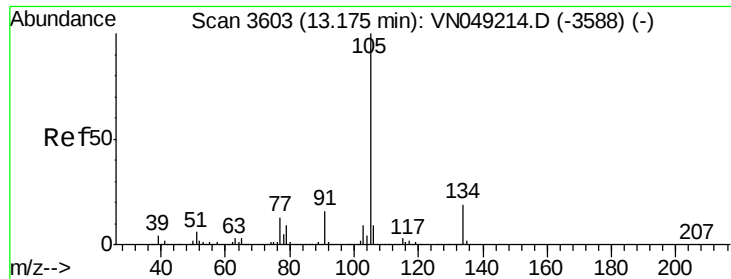
apatel
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#84
1,2,4-Trimethylbenzene
Concen: 5.03 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	22.2	66.6





#85

sec-Butylbenzene

Concen: 5.27 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 201809

Ion Ratio Lower Upper

105 100

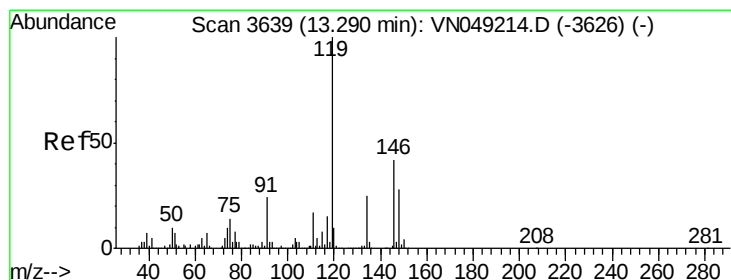
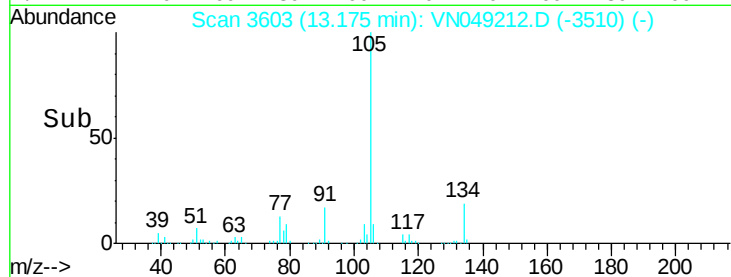
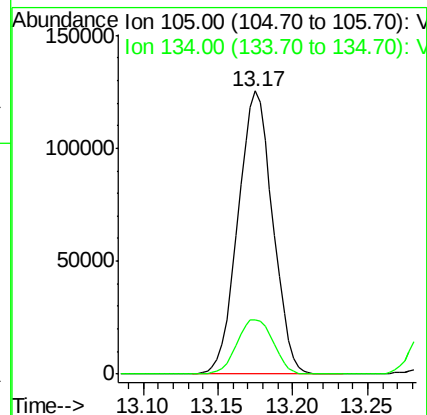
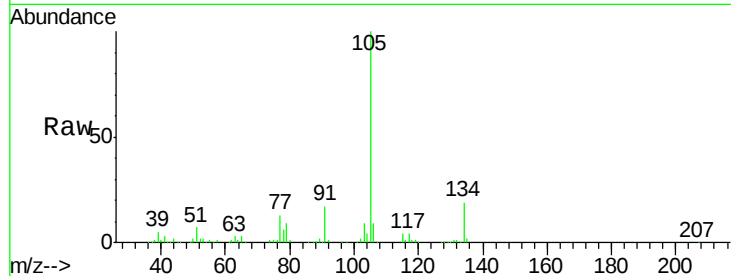
134 20.1 9.8 29.3

Manual Integrations

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apatel

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#86

p-Isopropyltoluene

Concen: 4.95 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN049212.D

Acq: 13 Jun 2018 20:35

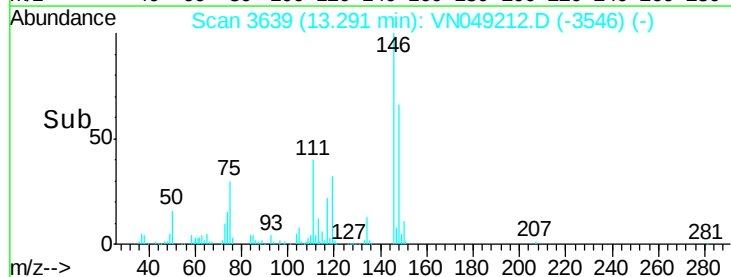
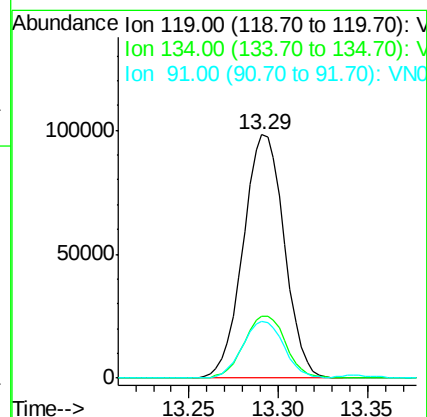
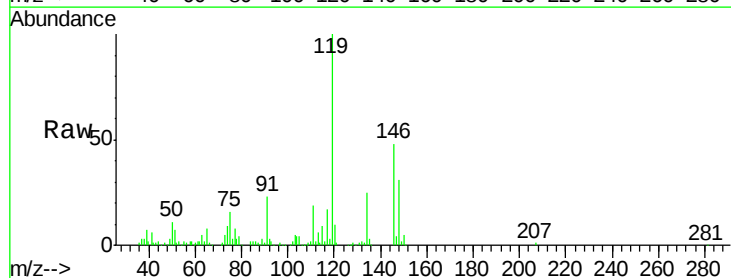
Tgt Ion:119 Resp: 157673

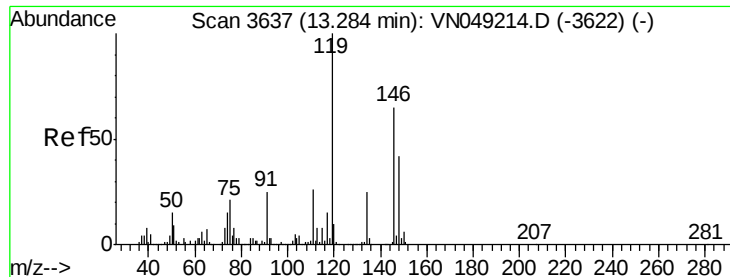
Ion Ratio Lower Upper

119 100

134 26.2 12.9 38.6

91 23.6 12.1 36.3





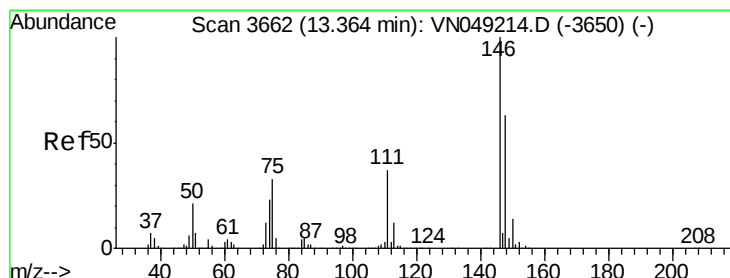
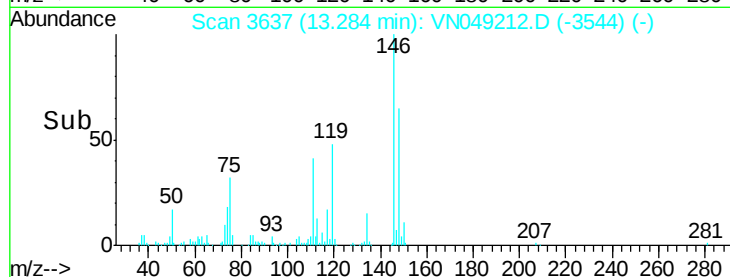
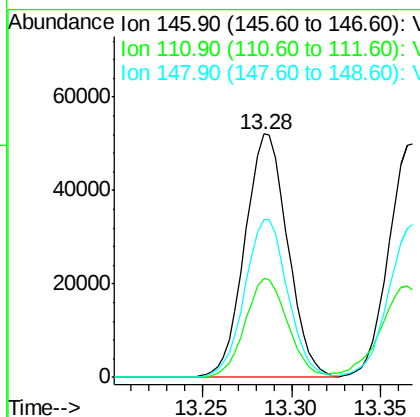
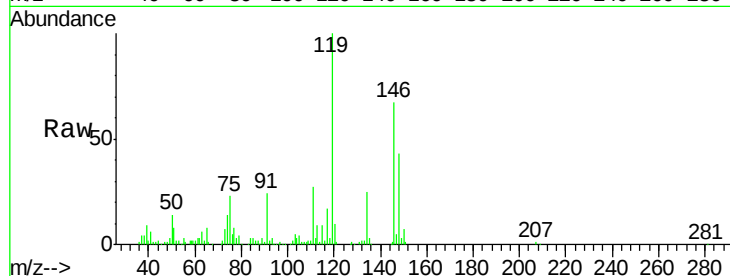
#87
 1,3-Dichlorobenzene
 Concen: 5.17 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	19.9	59.6
148	65.0	32.1	96.5

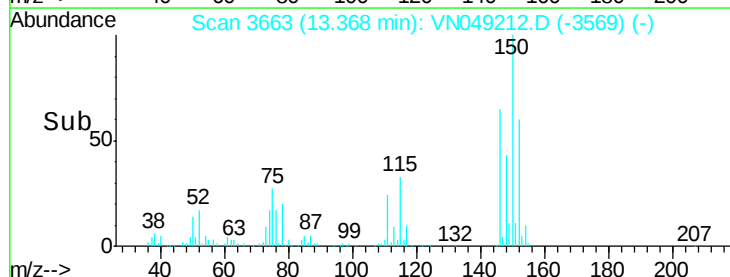
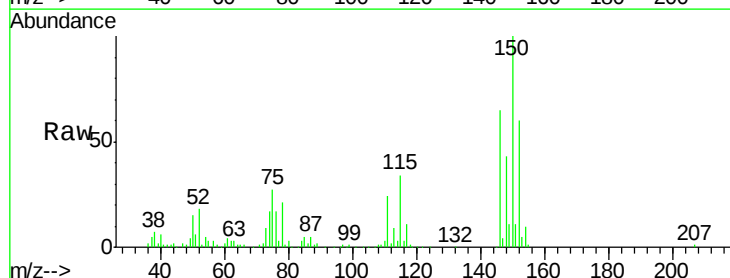
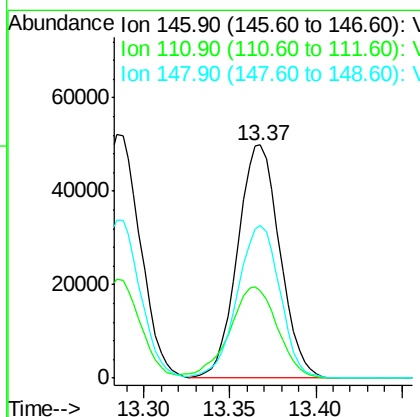
Manual Integrations
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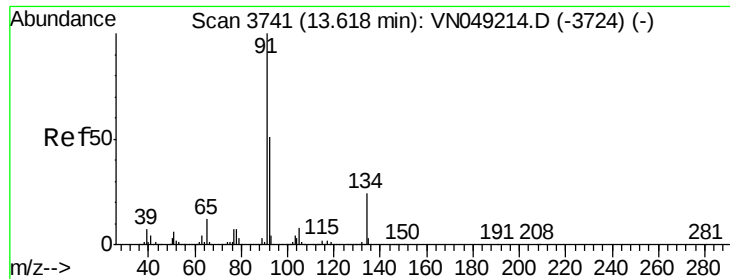
apatel
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#88
 1,4-Dichlorobenzene
 Concen: 5.21 ug/l
 RT: 13.37 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.6	19.1	57.1
148	65.9	32.0	96.2





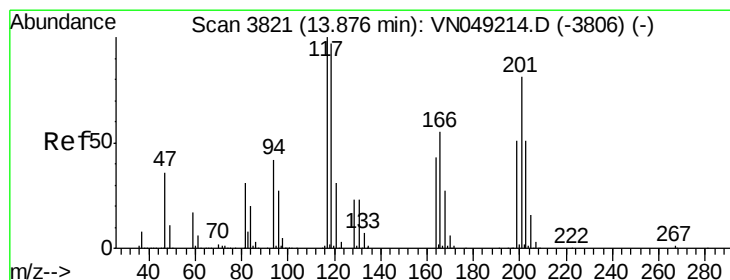
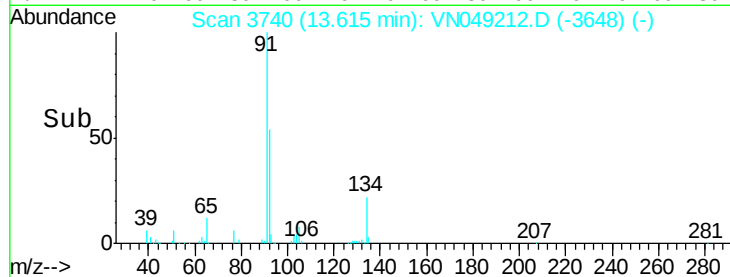
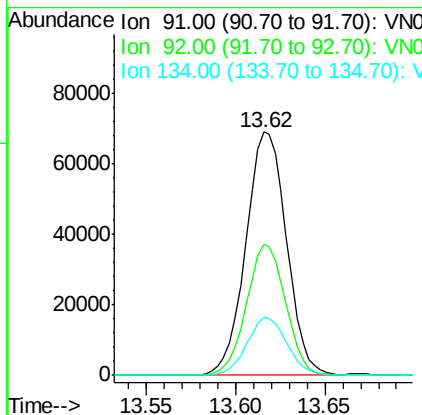
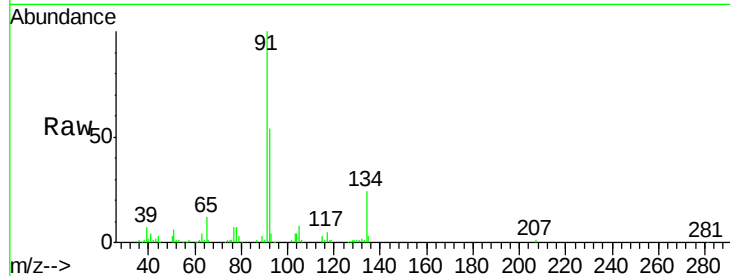
#89
n-Butylbenzene
Concen: 4.27 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.8	25.1	75.4
134	23.3	12.0	36.0

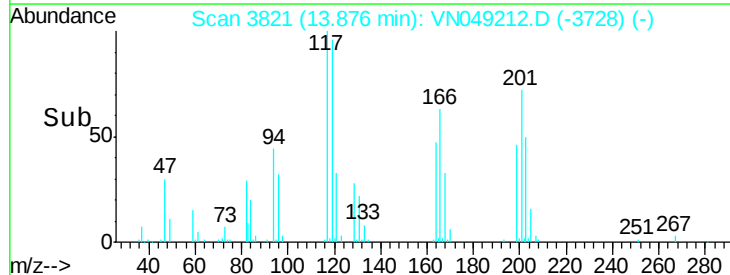
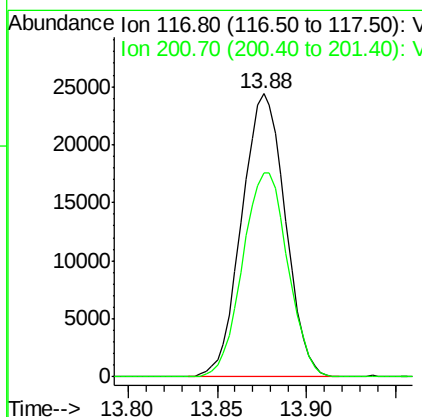
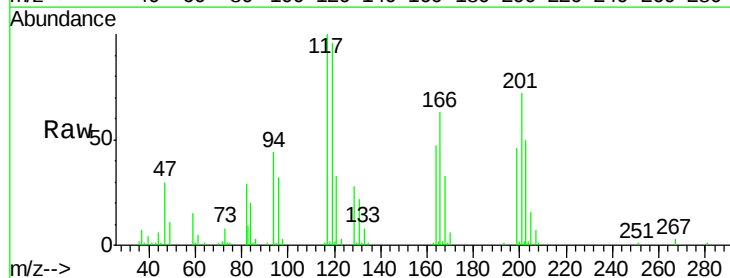
Manual Integrations
APPROVED

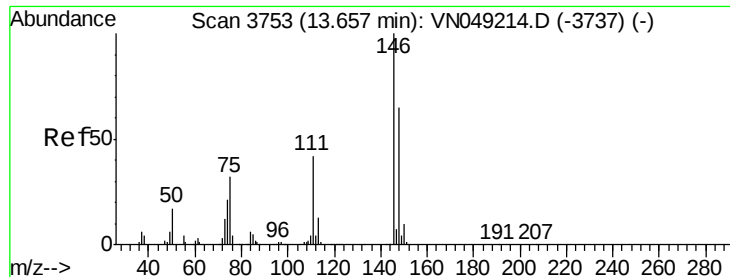
apatel
6/14/2018 5:07:12 PM



#90
Hexachloroethane
Concen: 6.10 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
117	100		
201	74.7	40.1	120.2





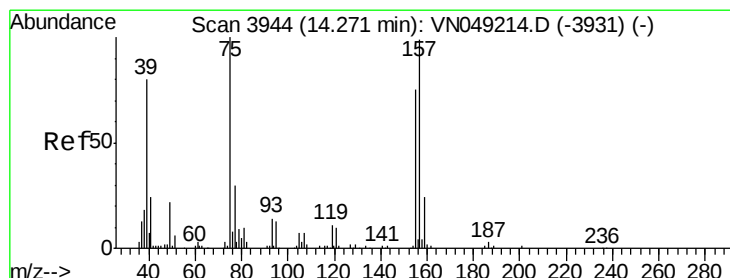
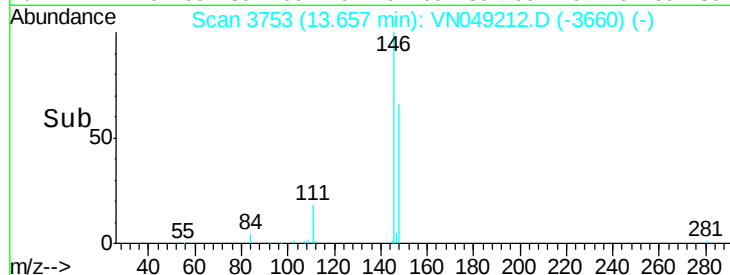
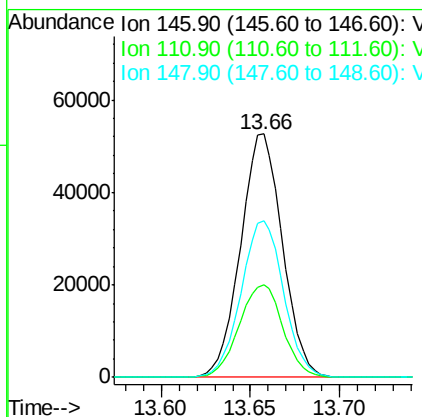
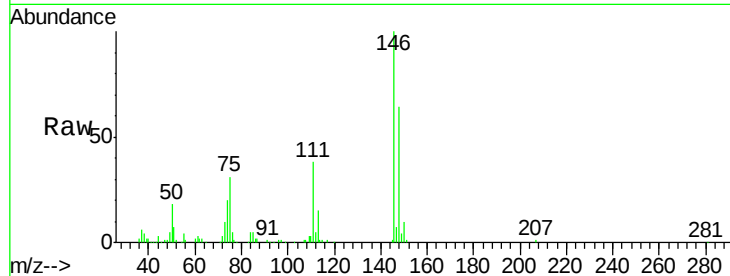
#91
 1,2-Dichlorobenzene
 Concen: 5.31 ug/l
 RT: 13.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.8	62.2
148	65.5	32.0	96.2

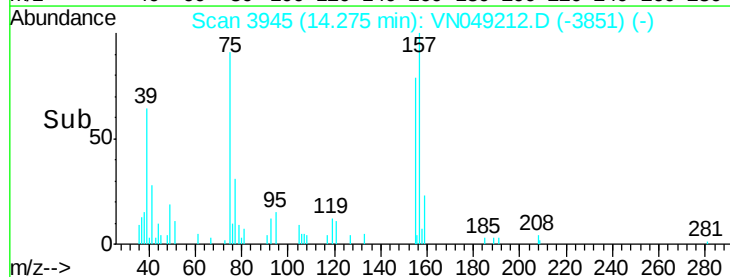
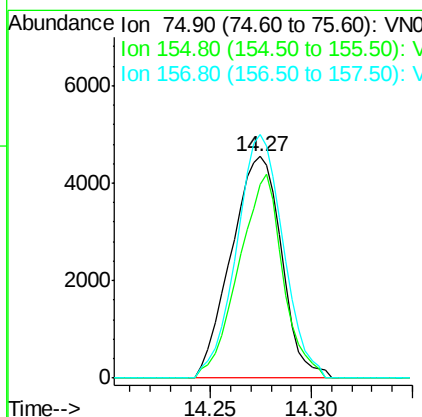
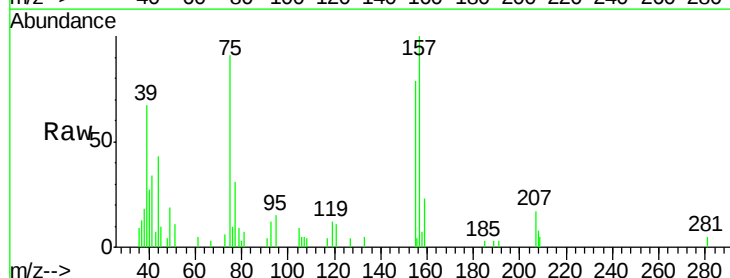
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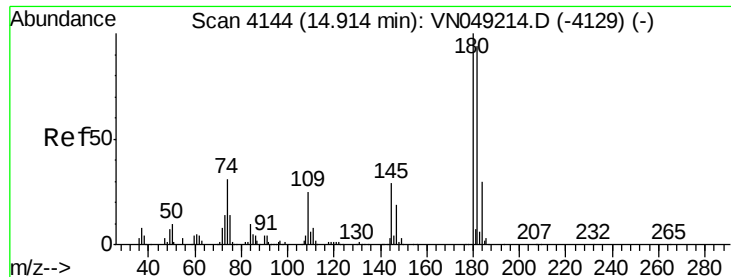
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.39 ug/l
 RT: 14.27 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.5	38.8	116.3
157	102.1	51.0	153.1





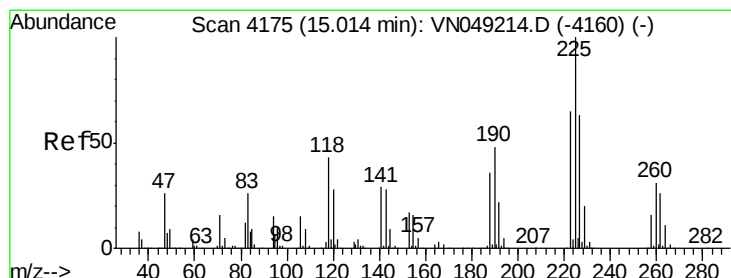
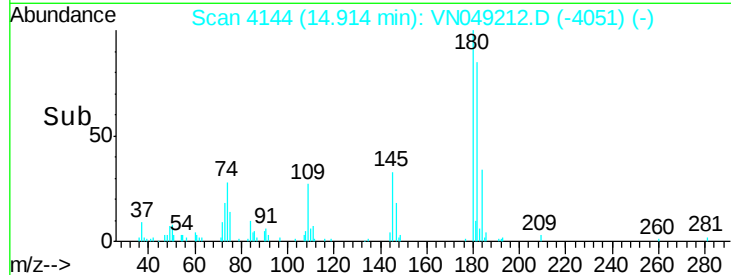
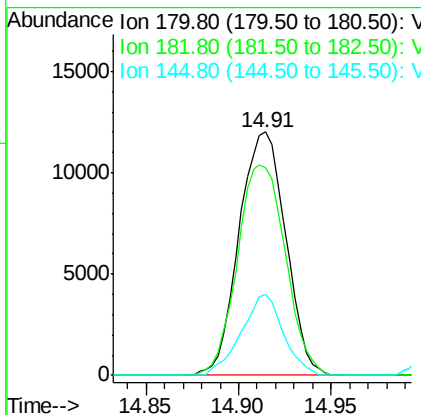
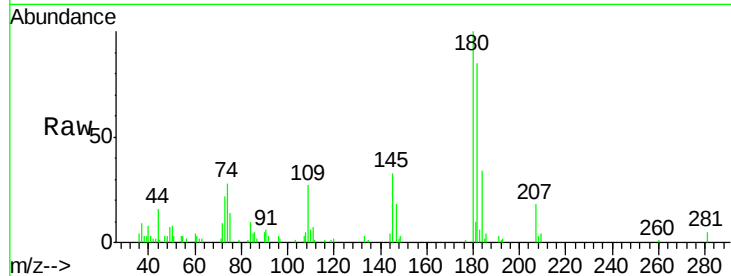
#93
 1,2,4-Trichlorobenzene
 Concen: 3.27 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100	21001		
182	89.1	46.9	140.8	
145	30.0	14.7	44.1	

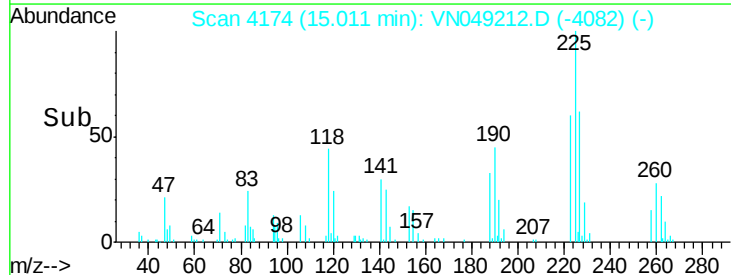
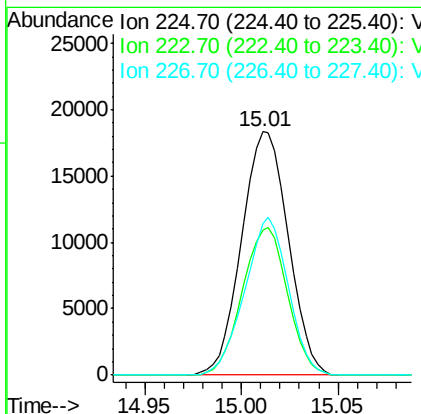
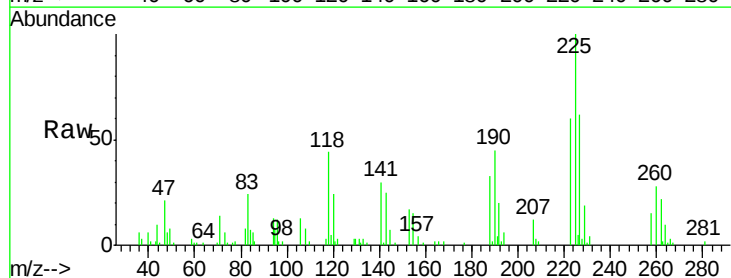
Manual Integrations
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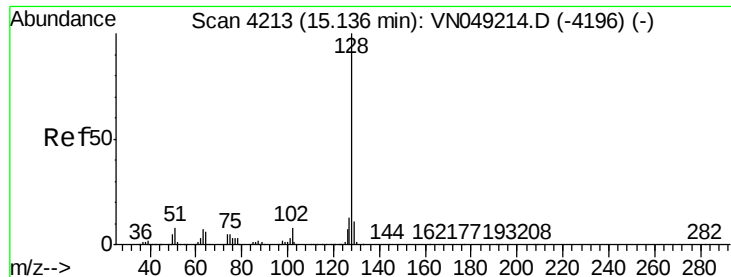
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#94
 Hexachlorobutadiene
 Concen: 6.28 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN049212.D
 Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	30784		
223	58.5	32.1	96.3	
227	60.3	31.8	95.3	





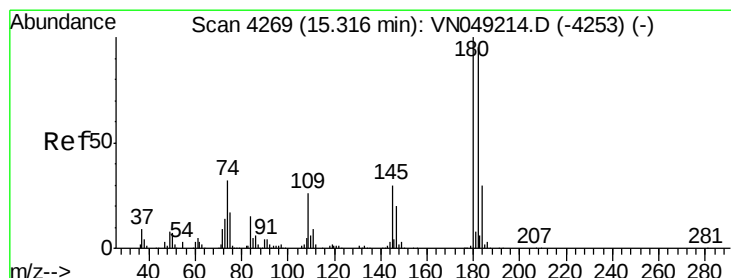
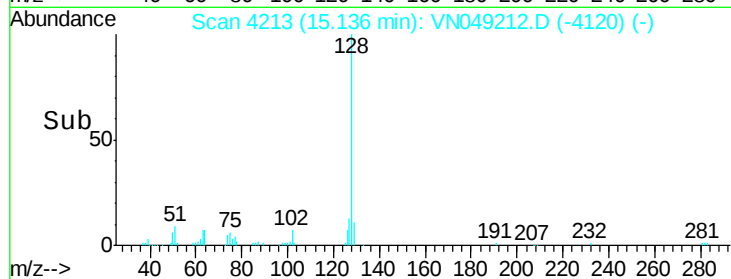
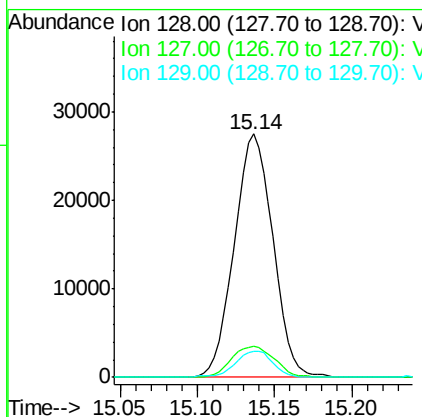
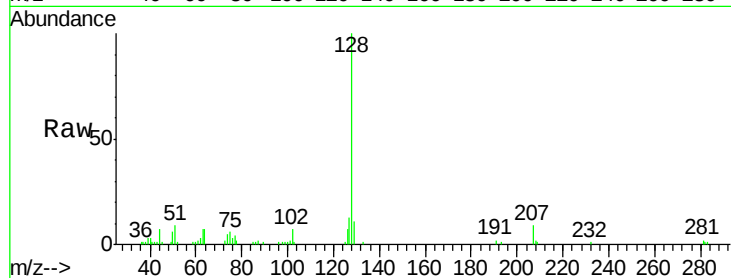
#95
Naphthalene
Concen: 3.39 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.6	16.0
129	10.5	8.5	12.7

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 3.53 ug/l
RT: 15.32 min Scan# 4270
Delta R.T. 0.00 min
Lab File: VN049212.D
Acq: 13 Jun 2018 20:35

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.5	47.3	141.8
145	34.3	15.6	46.7

