

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV012419\
 Data File : VV009266.D
 Acq On : 24 Jan 2019 18:53
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA V/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 1/25/2019 10:01:58 AM

Quant Time: Jan 24 23:57:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\82V012419S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 24 23:18:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.73	168	84719	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.66	114	146756	50.00	ug/l	0.00
63) Chlorobenzene-d5	8.89	117	137441	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.30	152	70754	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.08	65	50070	48.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.08%	
35) Dibromofluoromethane	4.64	113	46086	47.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.20%	
50) Toluene-d8	7.36	98	175265	47.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.06%	
62) 4-Bromofluorobenzene	10.12	95	67790	47.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.32%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	35614	50.296	ug/l	99
3) Chloromethane	1.25	50	46077	47.873	ug/l	98
4) Vinyl Chloride	1.32	62	45421	46.583	ug/l	97
5) Bromomethane	1.53	94	25318	45.892	ug/l	100
6) Chloroethane	1.60	64	23477	45.908	ug/l	99
7) Trichlorofluoromethane	1.76	101	20352	44.183	ug/l	97
8) Diethyl Ether	1.96	74	21529	46.942	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.13	101	37060	45.192	ug/l	99
10) Methyl Iodide	2.26	142	64823	47.982	ug/l	99
11) Tert butyl alcohol	2.66	59	18143	217.220	ug/l	99
12) 1,1-Dichloroethene	2.14	96	38610	45.311	ug/l	99
13) Acrolein	2.05	56	10176	206.411	ug/l	85
14) Allyl chloride	2.42	41	59371	46.647	ug/l	98
15) Acrylonitrile	2.76	53	50119	233.343	ug/l	99
16) Acetone	2.18	43	45605	164.052	ug/l	98
17) Carbon Disulfide	2.32	76	114322	47.788	ug/l	99
18) Methyl Acetate	2.45	43	31530	44.572	ug/l	100
19) Methyl tert-butyl Ether	2.80	73	61895	46.403	ug/l	99
20) Methylene Chloride	2.53	84	43168	45.048	ug/l	98
21) trans-1,2-Dichloroethene	2.78	96	40996	46.461	ug/l	98
22) Diisopropyl ether	3.32	45	140927	46.326	ug/l	98
23) Vinyl Acetate	3.30	43	431134	229.890	ug/l	99
24) 1,1-Dichloroethane	3.22	63	85949	45.748	ug/l	99
25) 2-Butanone	4.01	43	74695	201.738	ug/l	100
26) 2,2-Dichloropropane	3.95	77	42136	44.226	ug/l	99
27) cis-1,2-Dichloroethene	3.95	96	51890	46.375	ug/l	98
28) Bromochloromethane	4.29	49	39690	52.660	ug/l	98
29) Tetrahydrofuran	4.39	42	46090	218.407	ug/l	95
30) Chloroform	4.42	83	87693	46.453	ug/l	97
31) Cyclohexane	4.72	56	72970	42.130	ug/l	99
32) 1,1,1-Trichloroethane	4.65	97	66742	45.473	ug/l	100
36) 1,1-Dichloropropene	4.87	75	64368	43.804	ug/l	99
37) Ethyl Acetate	4.12	43	32728	38.287	ug/l	98
38) Carbon Tetrachloride	4.87	117	62647	43.111	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.17	83	76297	41.429	ug/l	97
40) Benzene	5.14	78	193741	44.752	ug/l	99
41) Methacrylonitrile	4.31	41	18728	43.745	ug/l	96
42) 1,2-Dichloroethane	5.17	62	58226	43.254	ug/l	100
43) Isopropyl Acetate	5.32	43	61395	43.130	ug/l	99
44) Trichloroethene	5.96	130	51086	44.217	ug/l	97
45) 1,2-Dichloropropane	6.22	63	48672	45.669	ug/l	98
46) Dibromomethane	6.35	93	26716	44.747	ug/l	97
47) Bromodichloromethane	6.55	83	63659	45.330	ug/l	100
48) Methyl methacrylate	6.42	41	31289	44.310	ug/l	98
49) 1,4-Dioxane	6.41	88	8613	919.343	ug/l	91
51) 4-Methyl-2-Pentanone	7.27	43	161826	216.011	ug/l	98
52) Toluene	7.43	92	123005	44.993	ug/l	98
53) t-1,3-Dichloropropene	7.69	75	63299	44.569	ug/l	100
54) cis-1,3-Dichloropropene	7.07	75	74013	45.935	ug/l	99
55) 1,1,2-Trichloroethane	7.88	97	38035	45.687	ug/l	98
56) Ethyl methacrylate	7.83	69	45923	45.657	ug/l	96
57) 1,3-Dichloropropane	8.05	76	67011	45.178	ug/l	98
58) 2-Chloroethyl Vinyl ether	6.94	63	4268	160.361	ug/l	98
59) 2-Hexanone	8.18	43	110293	204.791	ug/l	100
60) Dibromochloromethane	8.29	129	42757	44.930	ug/l	98
61) 1,2-Dibromoethane	8.40	107	37841	45.239	ug/l	99
64) Tetrachloroethene	8.02	164	42935	45.305	ug/l	97
65) Chlorobenzene	8.92	112	134560	43.412	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.02	131	46258	44.696	ug/l	100
67) Ethyl Benzene	9.05	91	234322	44.558	ug/l	99
68) m/p-Xylenes	9.18	106	181022	89.737	ug/l	100
69) o-Xylene	9.59	106	84954	45.066	ug/l	100
70) Styrene	9.60	104	142500	46.419	ug/l	99
71) Bromoform	9.77	173	24551	44.000	ug/l #	99
73) Isopropylbenzene	9.97	105	230993	43.963	ug/l	98
74) N-amyl acetate	9.84	43	53176	43.251	ug/l	98
75) 1,1,2,2-Tetrachloroethane	10.29	83	46459	42.999	ug/l	100
76) 1,2,3-Trichloropropane	10.32	75	35624m	42.654	ug/l	
77) Bromobenzene	10.26	156	55064	44.914	ug/l	99
78) n-propylbenzene	10.40	91	273539	44.002	ug/l	99
79) 2-Chlorotoluene	10.47	91	165357	44.133	ug/l	100
80) 1,3,5-Trimethylbenzene	10.58	105	201119	45.505	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.05	75	13227	44.986	ug/l	97
82) 4-Chlorotoluene	10.58	91	196769	44.300	ug/l	100
83) tert-Butylbenzene	10.91	119	186309	43.662	ug/l	99
84) 1,2,4-Trimethylbenzene	10.96	105	203690	44.897	ug/l	100
85) sec-Butylbenzene	11.13	105	240056	43.169	ug/l	100
86) p-Isopropyltoluene	11.29	119	215565	43.927	ug/l	100
87) 1,3-Dichlorobenzene	11.23	146	109613	44.149	ug/l	100
88) 1,4-Dichlorobenzene	11.32	146	111378	43.949	ug/l	99
89) n-Butylbenzene	11.70	91	203130	42.745	ug/l	100
90) Hexachloroethane	11.95	117	38081	43.872	ug/l	100
91) 1,2-Dichlorobenzene	11.69	146	97998	43.995	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.48	75	7816	43.329	ug/l	98

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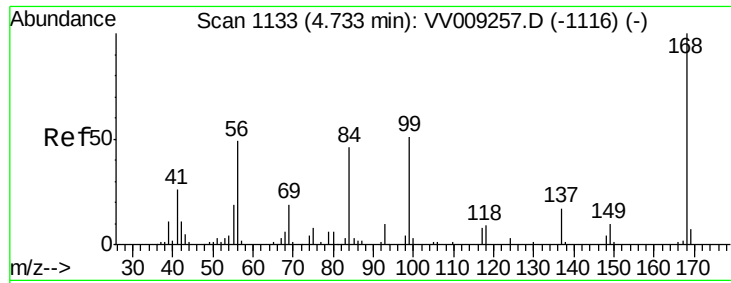
Manual Integrations
APPROVED

MMDadoda
1/25/2019 10:01:58 AM

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.31	180	66431	42.556	ug/l	99
94) Hexachlorobutadiene	13.49	225	38315	42.938	ug/l	99
95) Naphthalene	13.55	128	132035	42.223	ug/l	99
96) 1,2,3-Trichlorobenzene	13.80	180	60055	43.615	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.73 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 84719

Ion Ratio Lower Upper

168 100

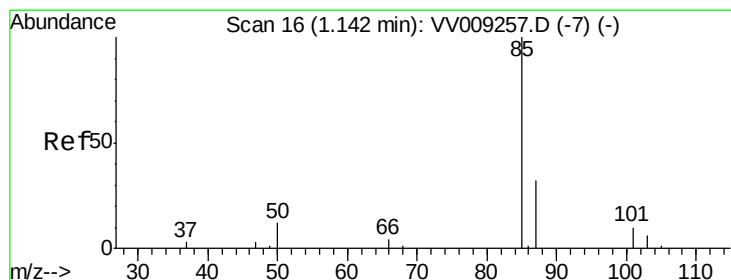
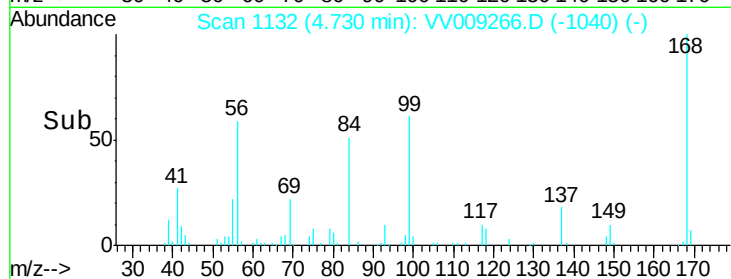
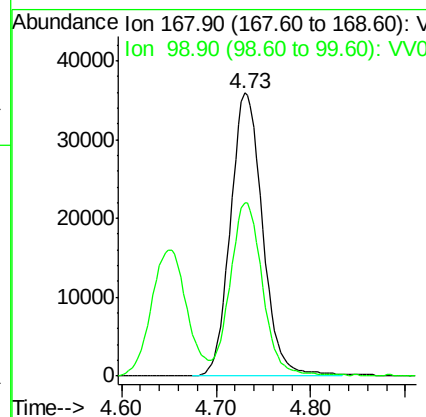
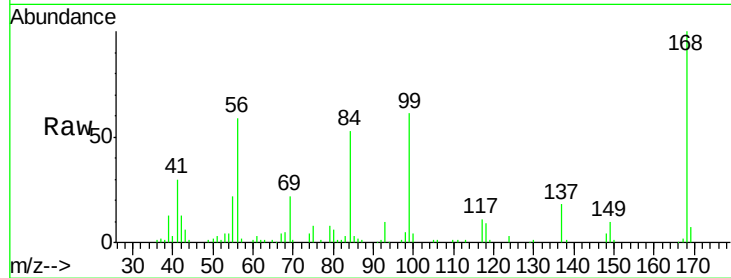
99 60.7 50.0 75.0

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 50.296 ug/l

RT: 1.14 min Scan# 16

Delta R.T. -0.00 min

Lab File: VV009266.D

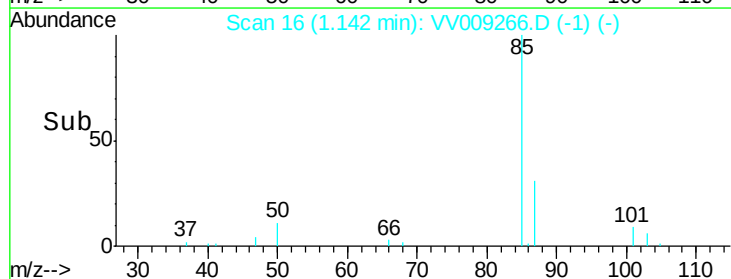
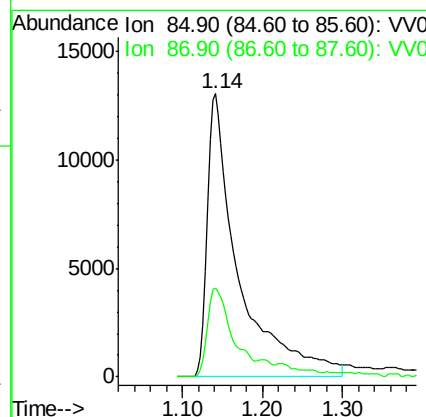
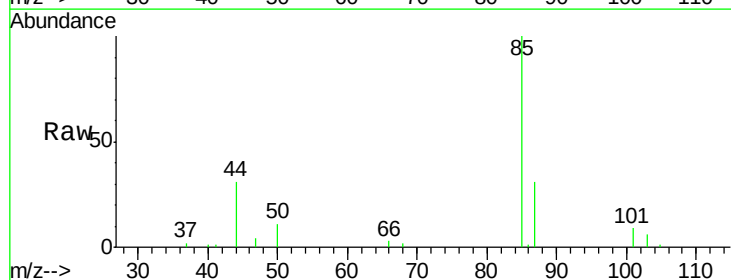
Acq: 24 Jan 2019 18:53

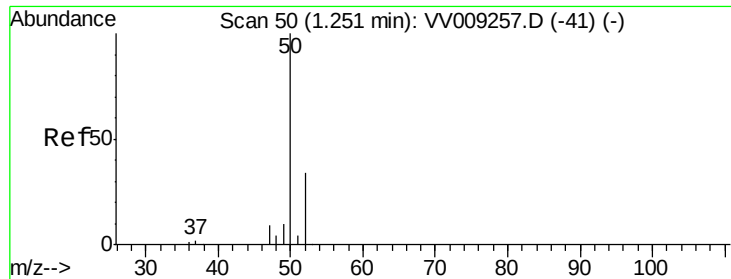
Tgt Ion: 85 Resp: 35614

Ion Ratio Lower Upper

85 100

87 31.3 16.0 47.9





#3

Chloromethane

Concen: 47.873 ug/l

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 46077

Ion Ratio Lower Upper

50 100

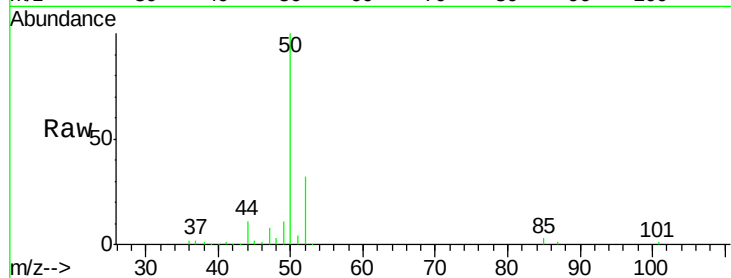
52 32.2 26.8 40.2

Manual Integrations

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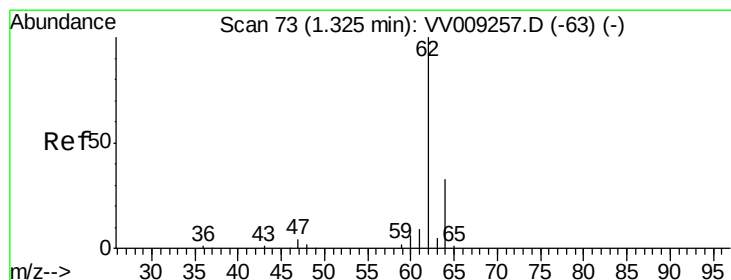
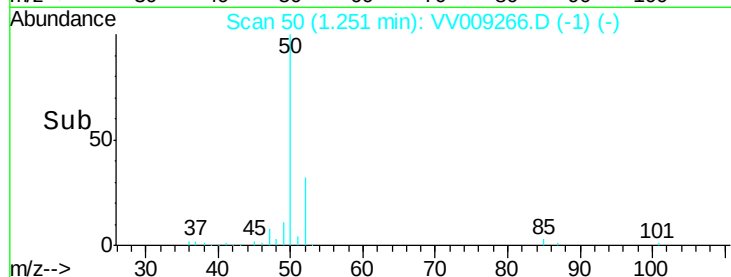
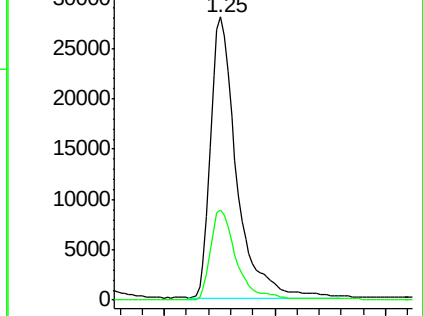
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Abundance Ion 49.90 (49.60 to 50.60): VV0

Ion 51.90 (51.60 to 52.60): VV0



#4

Vinyl Chloride

Concen: 46.583 ug/l

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VV009266.D

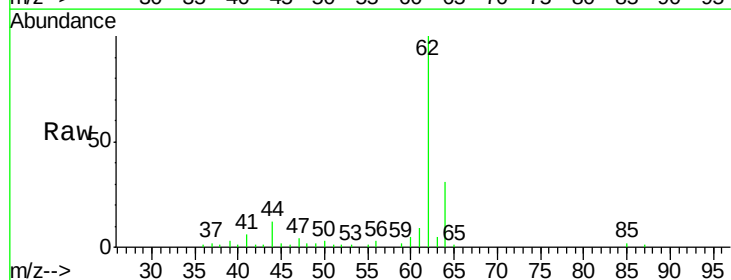
Acq: 24 Jan 2019 18:53

Tgt Ion: 62 Resp: 45421

Ion Ratio Lower Upper

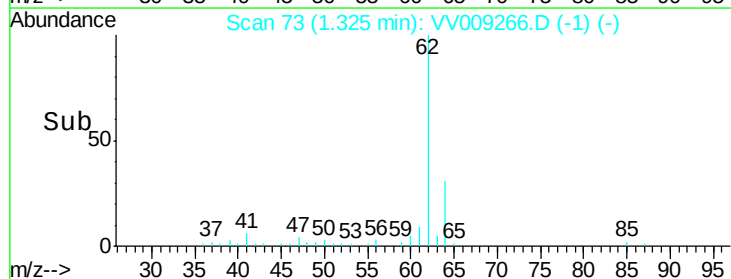
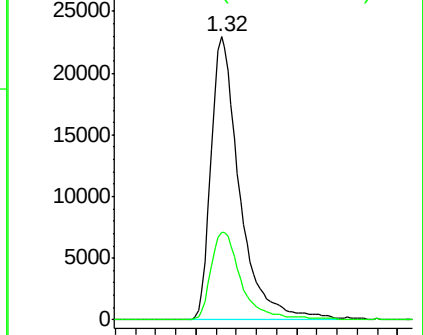
62 100

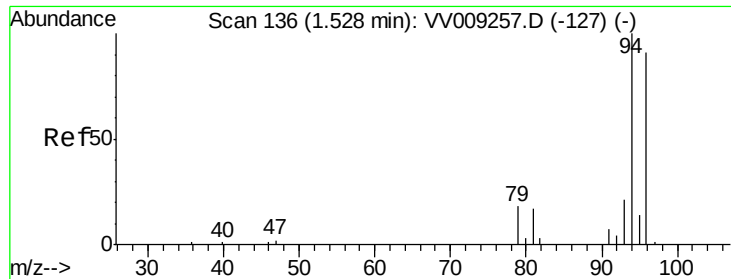
64 31.0 26.3 39.5



Abundance Ion 61.90 (61.60 to 62.60): VV0

Ion 63.90 (63.60 to 64.60): VV0





#5

Bromomethane

Concen: 45.892 ug/l

RT: 1.53 min Scan# 136

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 25318

Ion Ratio Lower Upper

94 100

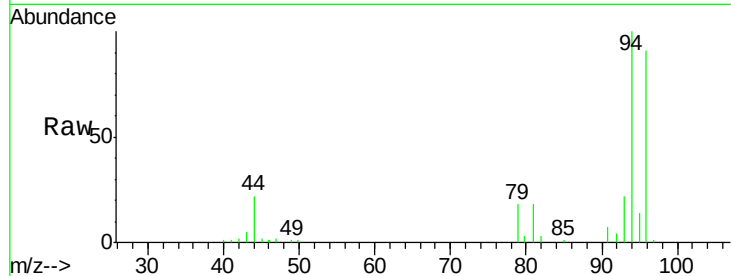
96 90.9 73.0 109.6

Manual Integrations

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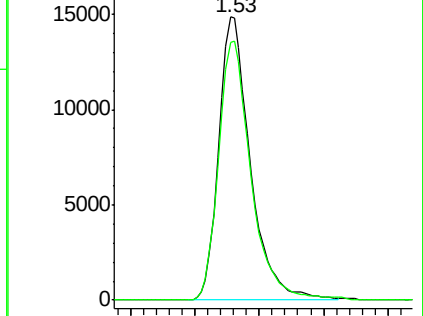
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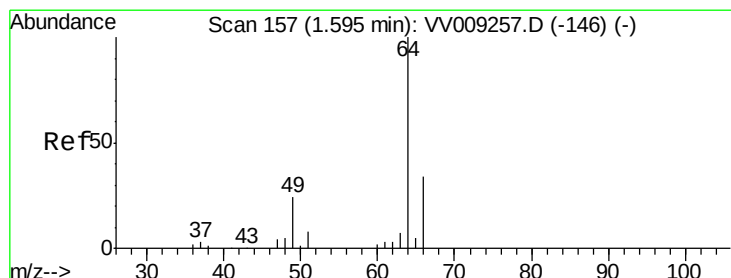
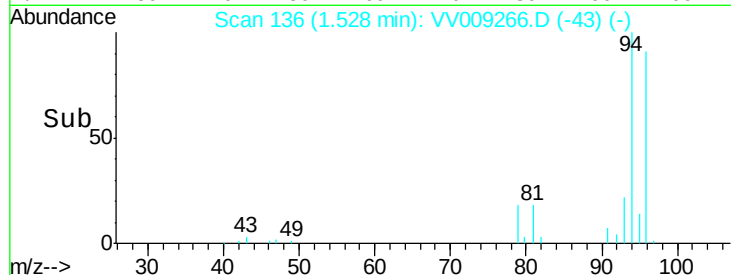


Abundance Ion 93.90 (93.60 to 94.60): VV009257.D

Ion 95.90 (95.60 to 96.60): VV009257.D



Time-->



#6

Chloroethane

Concen: 45.908 ug/l

RT: 1.60 min Scan# 157

Delta R.T. -0.00 min

Lab File: VV009266.D

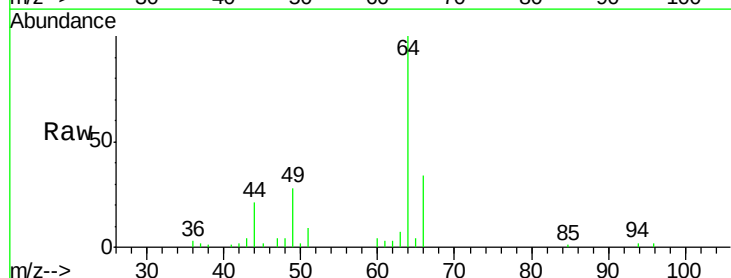
Acq: 24 Jan 2019 18:53

Tgt Ion: 64 Resp: 23477

Ion Ratio Lower Upper

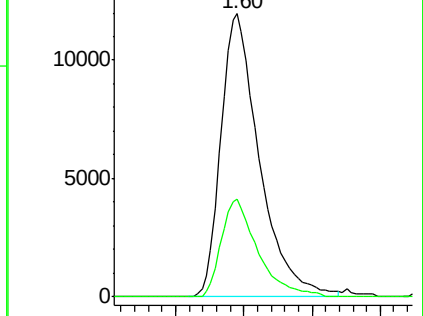
64 100

66 34.4 27.0 40.6

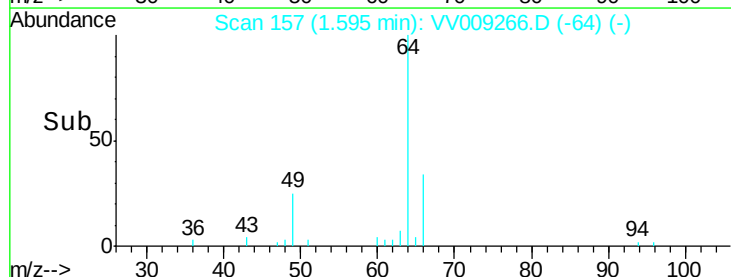


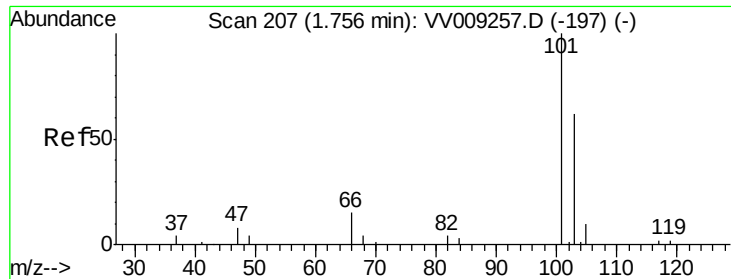
Abundance Ion 63.90 (63.60 to 64.60): VV009257.D

Ion 65.90 (65.60 to 66.60): VV009257.D



Time-->





#7

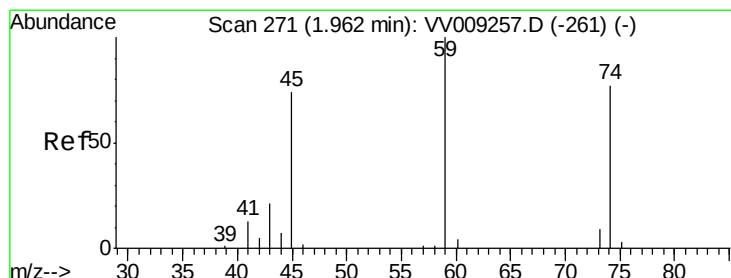
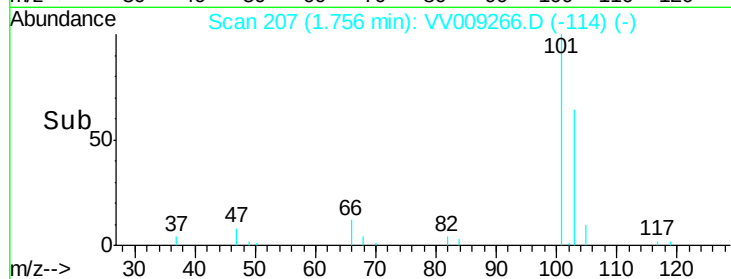
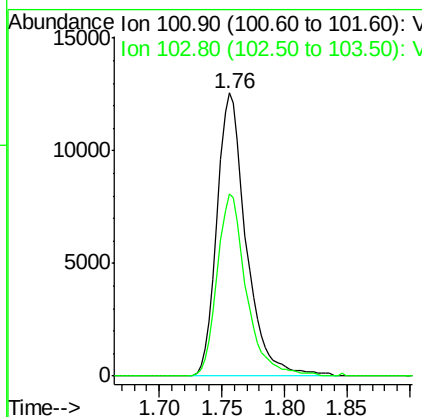
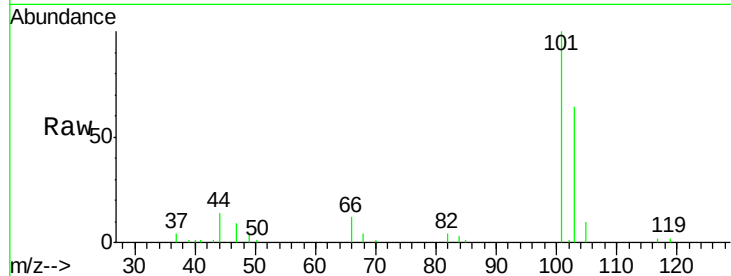
Trichlorofluoromethane
Concen: 44.183 ug/l
RT: 1.76 min Scan# 207
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100	100	20352		
103	64.5	49.8	74.8		

Manual Integrations
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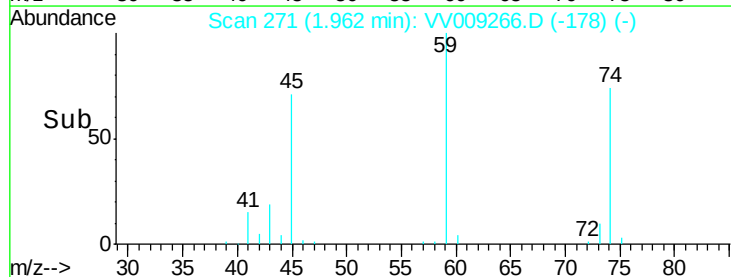
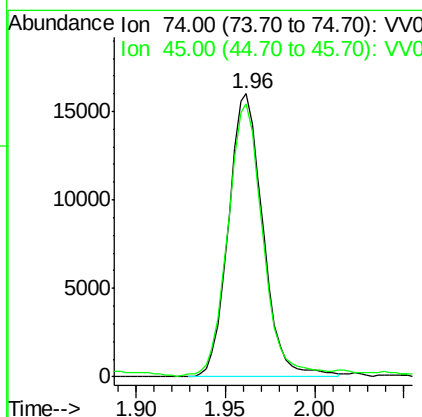
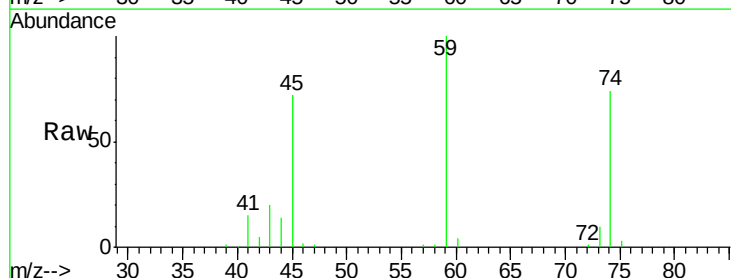
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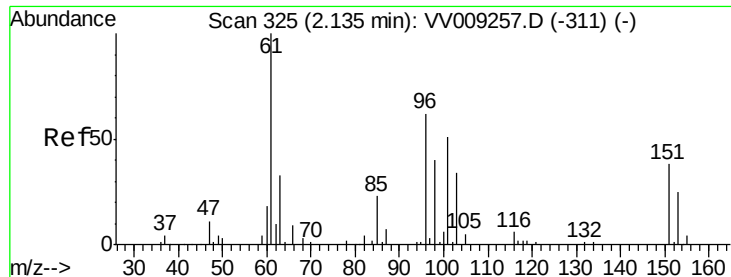


#8

Diethyl Ether
Concen: 46.942 ug/l
RT: 1.96 min Scan# 271
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100	100	21529		
45	98.4	47.4	142.2		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.192 ug/l

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

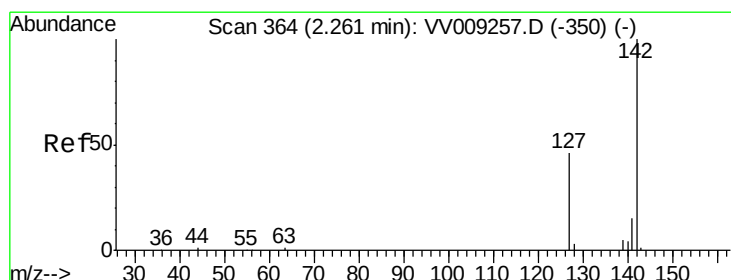
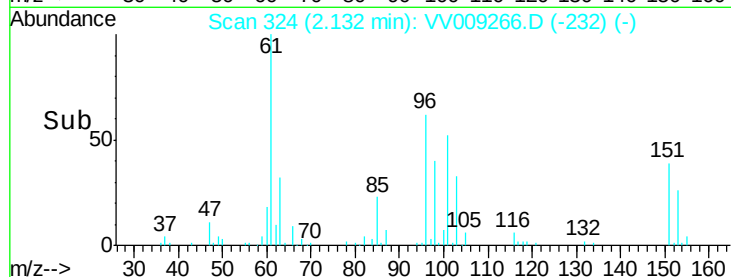
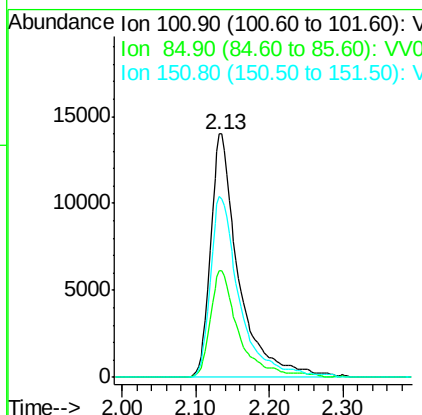
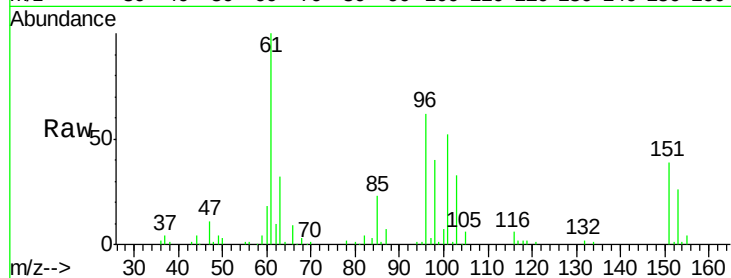
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	37060
Ion Ratio	Lower	Upper	
101	100		
85	43.1	33.8	50.6
151	73.9	58.3	87.5

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#10

Methyl Iodide

Concen: 47.982 ug/l

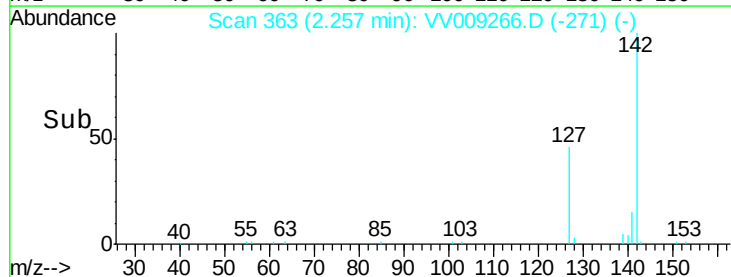
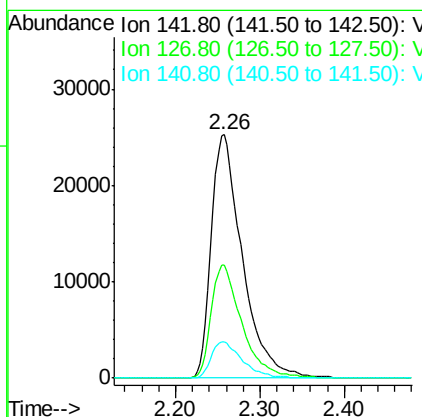
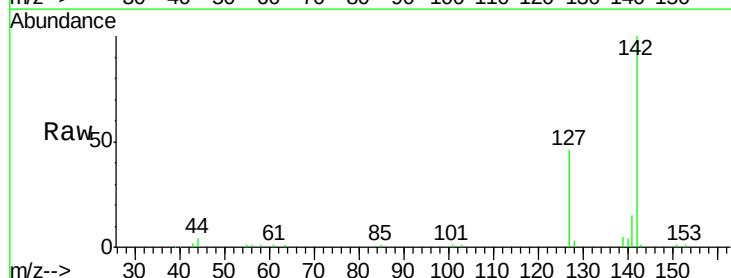
RT: 2.26 min Scan# 363

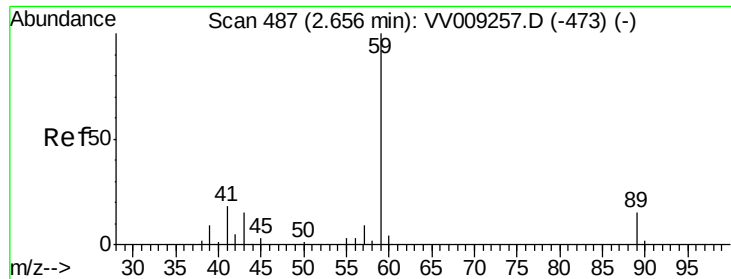
Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tgt Ion:	142	Resp:	64823
Ion Ratio	Lower	Upper	
142	100		
127	45.5	36.8	55.2
141	14.8	11.6	17.4





#11

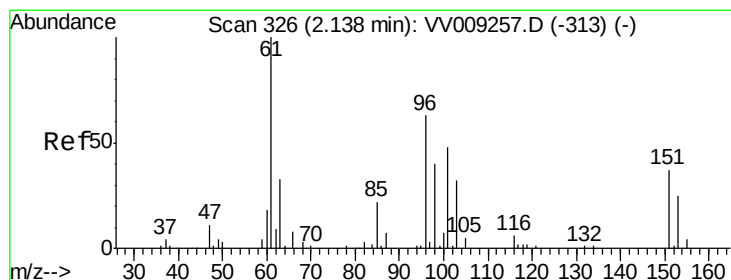
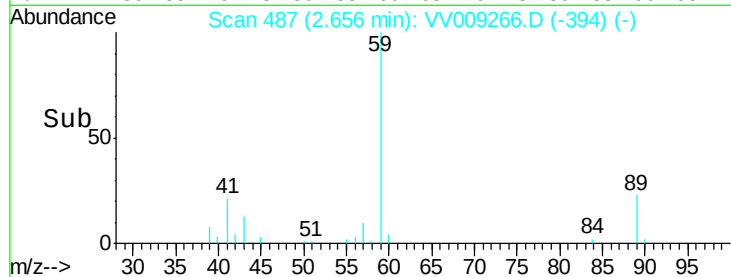
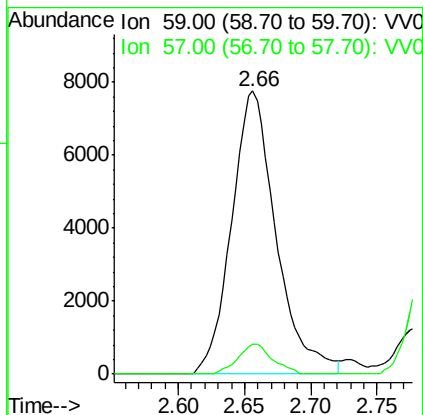
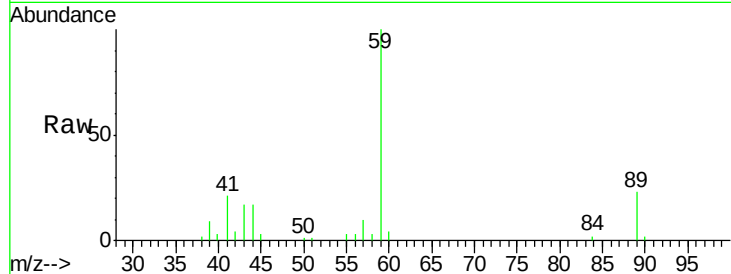
Tert butyl alcohol
Concen: 217.220 ug/l
RT: 2.66 min Scan# 487
Delta R.T. 0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.4	7.0	10.4

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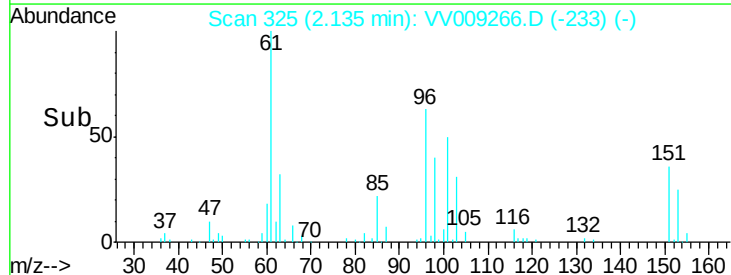
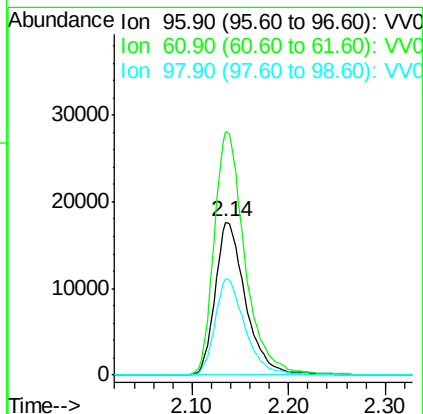
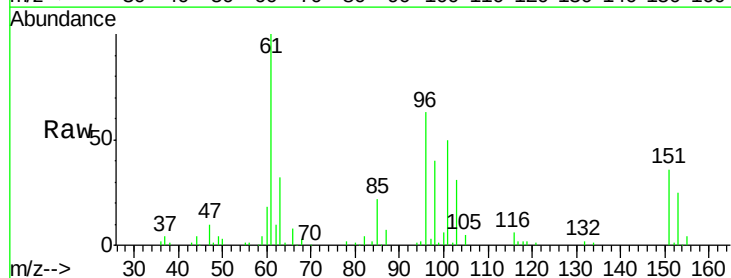
MMDadoda
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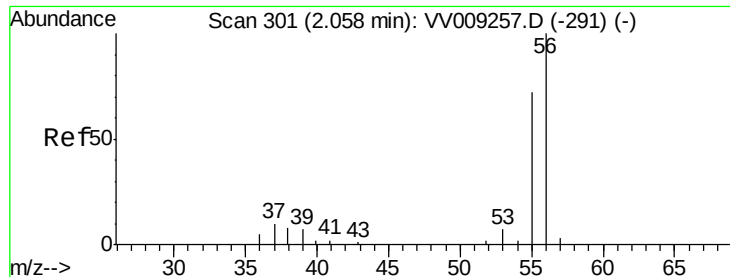


#12

1,1-Dichloroethene
Concen: 45.311 ug/l
RT: 2.14 min Scan# 326
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.8	127.2	190.8
98	63.2	51.5	77.3





#13

Acrolein

Concen: 206.411 ug/l

RT: 2.05 min Scan# 300

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 10176

Ion Ratio Lower Upper

56 100

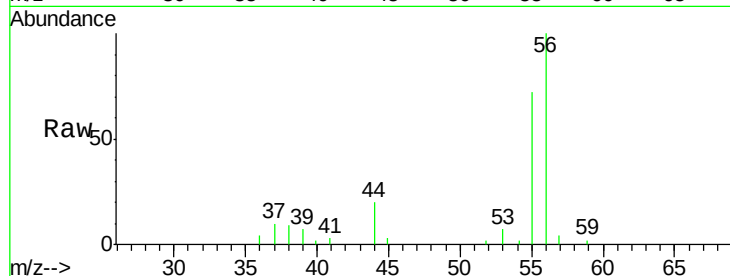
55 81.0 54.8 82.2

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Abundance Ion 56.00 (55.70 to 56.70): VV009257.D (-291) (-)

Ion 55.00 (54.70 to 55.70): VV009257.D (-291) (-)

2.05

8000

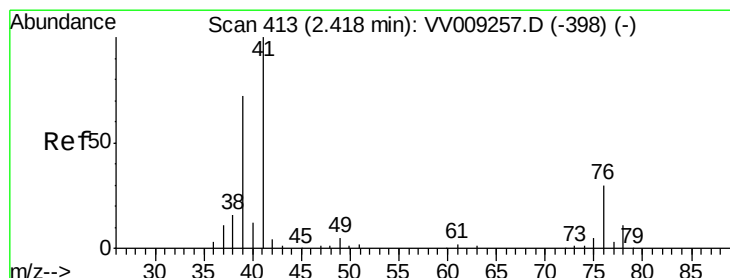
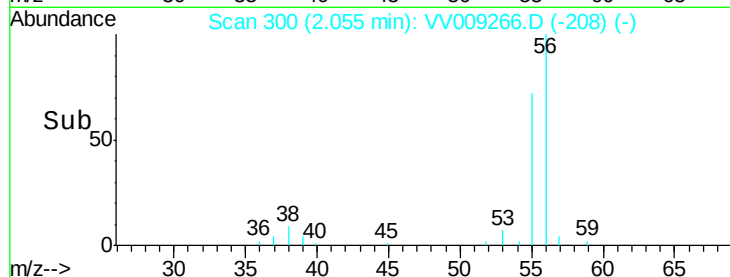
6000

4000

2000

0

Time-->



#14

Allyl chloride

Concen: 46.647 ug/l

RT: 2.42 min Scan# 413

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

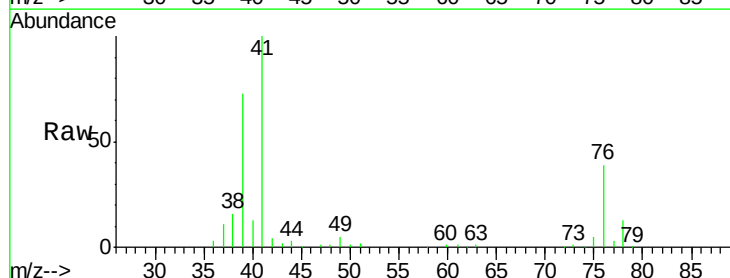
Tgt Ion: 41 Resp: 59371

Ion Ratio Lower Upper

41 100

39 71.4 56.4 84.6

76 40.3 30.6 46.0



Abundance Ion 41.00 (40.70 to 41.70): VV009257.D (-398) (-)

Ion 39.00 (38.70 to 39.70): VV009257.D (-398) (-)

Ion 75.90 (75.60 to 76.60): VV009257.D (-398) (-)

2.42

60000

50000

40000

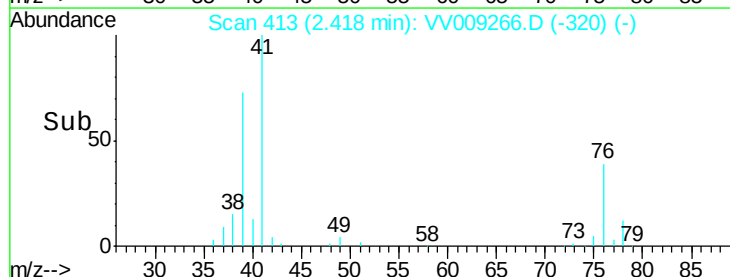
30000

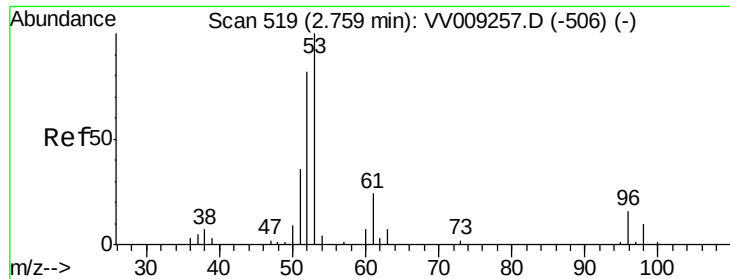
20000

10000

0

Time-->





#15

Acrylonitrile

Concen: 233.343 ug/l

RT: 2.76 min Scan# 519

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

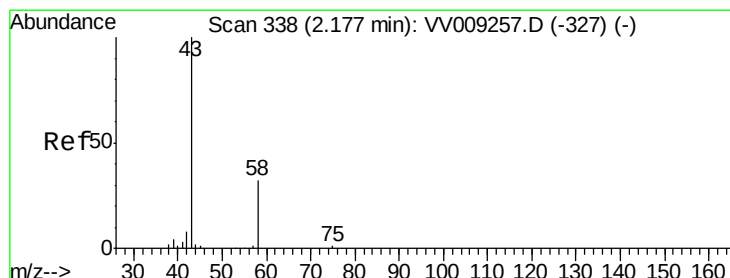
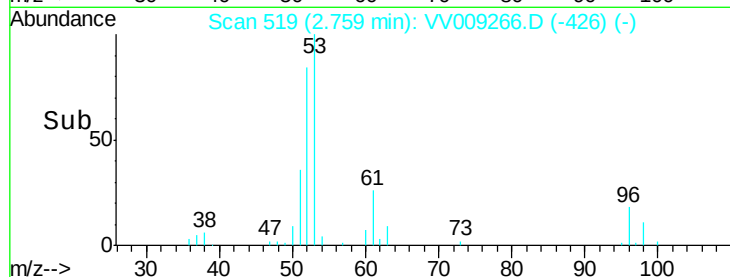
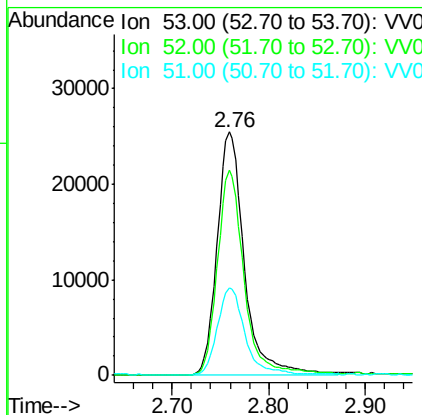
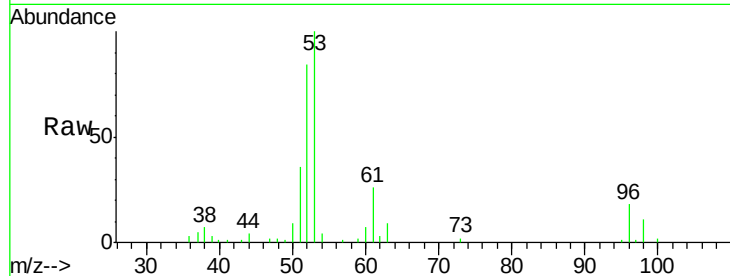
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	50119
Ion	Ratio	Lower	Upper
53	100		
52	82.8	67.2	100.8
51	36.8	29.7	44.5

Manual Integrations
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#16

Acetone

Concen: 164.052 ug/l

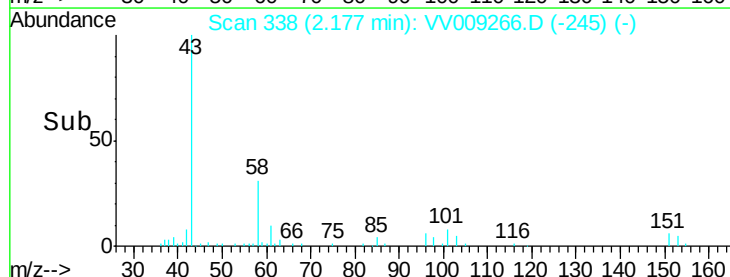
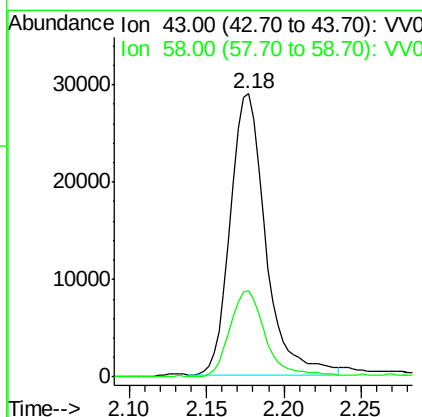
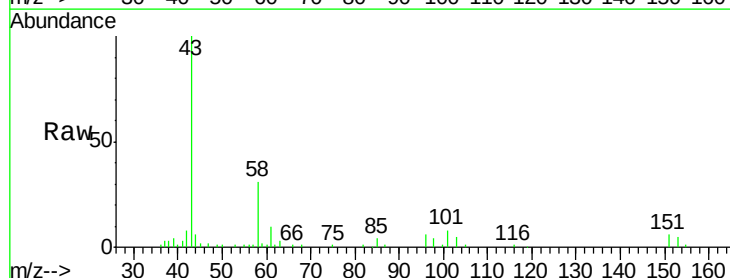
RT: 2.18 min Scan# 338

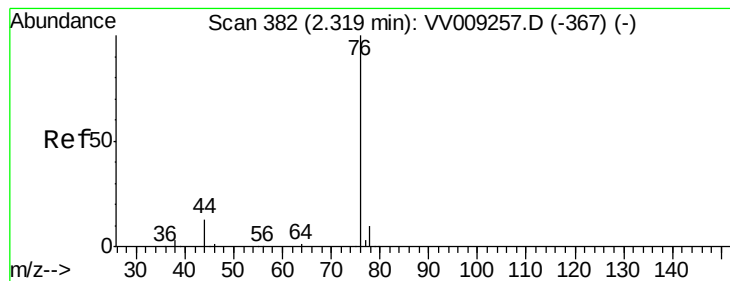
Delta R.T. 0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tgt Ion:	43	Resp:	45605
Ion	Ratio	Lower	Upper
43	100		
58	30.9	25.8	38.6





#17

Carbon Disulfide

Concen: 47.788 ug/l

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleID :

VSTDCCC050EC

Tot Ion: 76 Resp: 114322

Ion Ratio Lower Upper

76 100

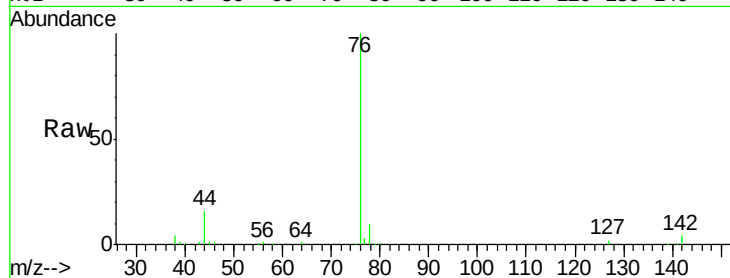
78 9.5 7.9 11.9

Manual Integrations

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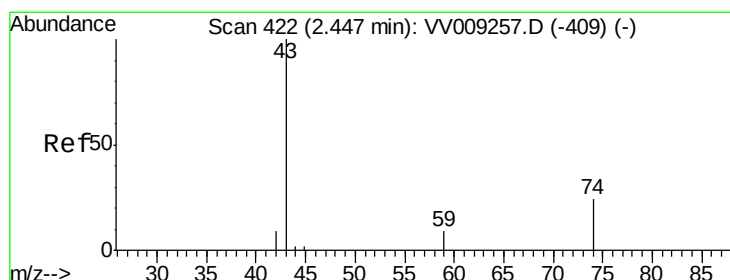
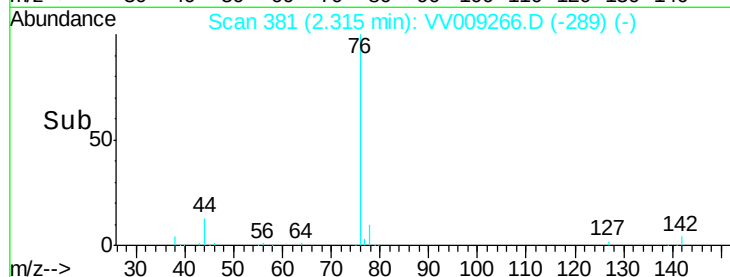
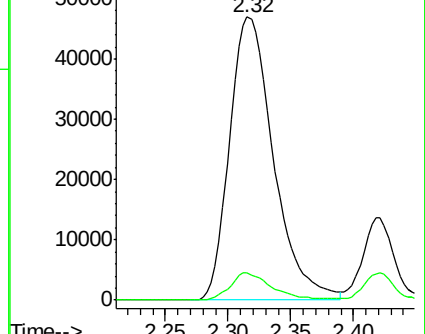
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Abundance Ion 75.90 (75.60 to 76.60): VV009257.D (-367) (-)

Ion 77.90 (77.60 to 78.60): VV009257.D (-367) (-)



#18

Methyl Acetate

Concen: 44.572 ug/l

RT: 2.45 min Scan# 422

Delta R.T. -0.00 min

Lab File: VV009266.D

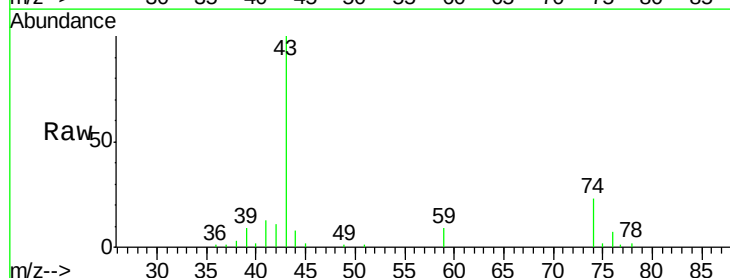
Acq: 24 Jan 2019 18:53

Tgt Ion: 43 Resp: 31530

Ion Ratio Lower Upper

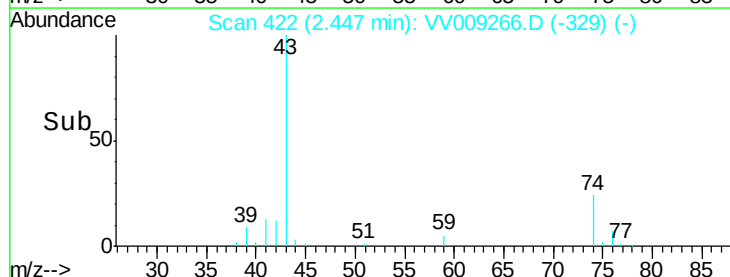
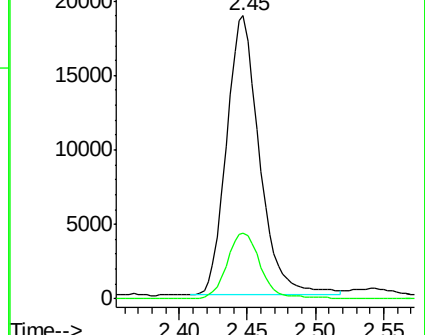
43 100

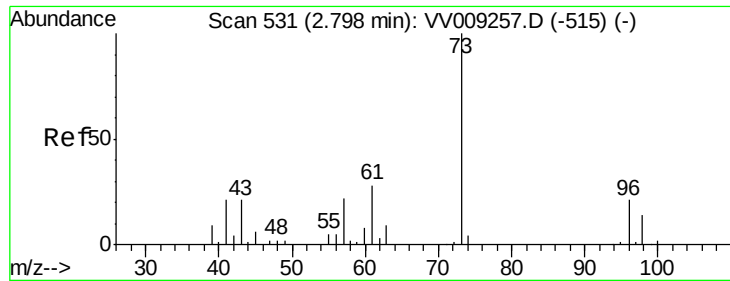
74 24.2 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VV009257.D (-409) (-)

Ion 74.00 (73.70 to 74.70): VV009257.D (-409) (-)





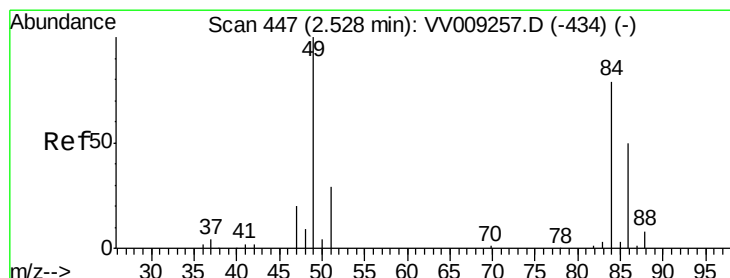
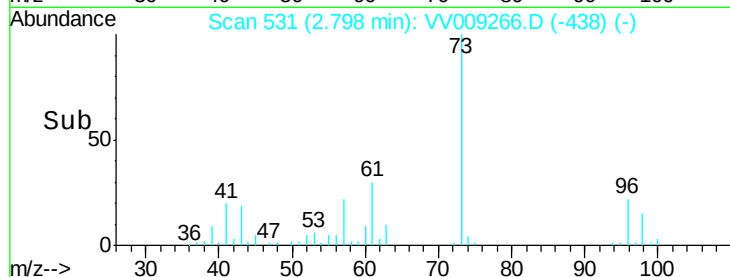
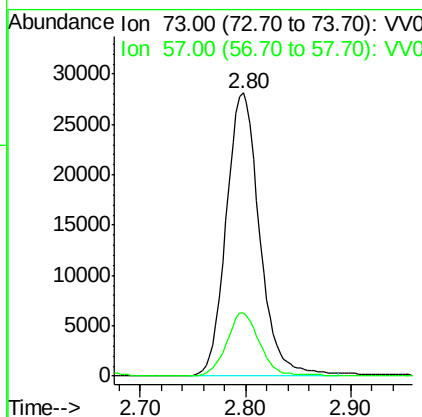
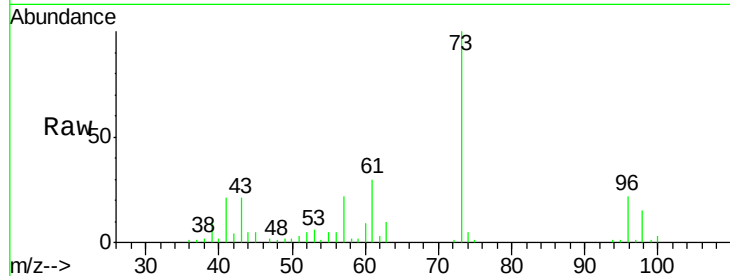
#19
Methyl tert-butyl Ether
Concen: 46.403 ug/l
RT: 2.80 min Scan# 531
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 61895
Ion Ratio Lower Upper
73 100
57 22.3 17.3 25.9

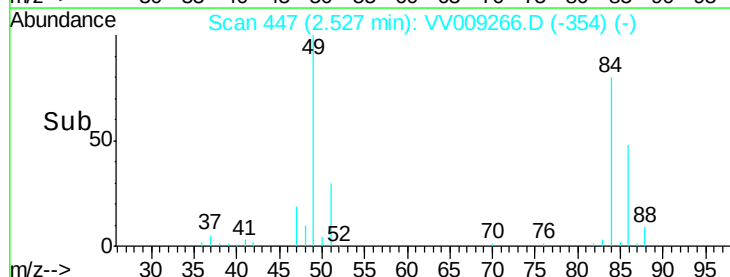
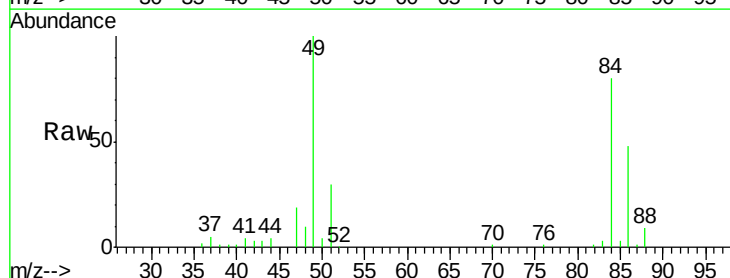
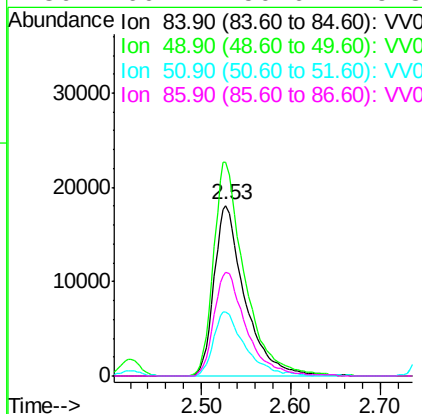
Manual Integrations
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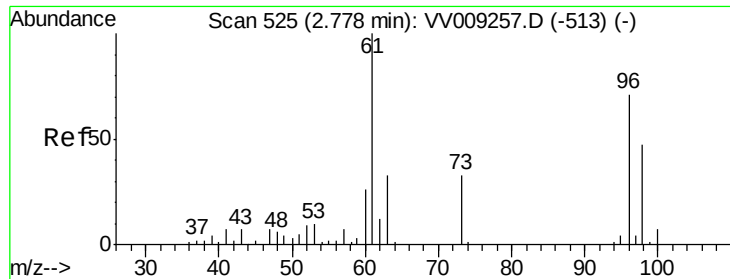
MMDadoda
1/25/2019 10:01:58 AM



#20
Methylene Chloride
Concen: 45.048 ug/l
RT: 2.53 min Scan# 447
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion: 84 Resp: 43168
Ion Ratio Lower Upper
84 100
49 125.2 101.5 152.3
51 37.5 29.6 44.4
86 60.7 50.6 75.8





#21

trans-1,2-Dichloroethene

Concen: 46.461 ug/l

RT: 2.78 min Scan# 525

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

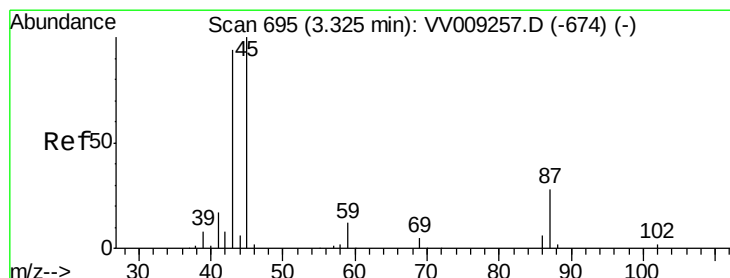
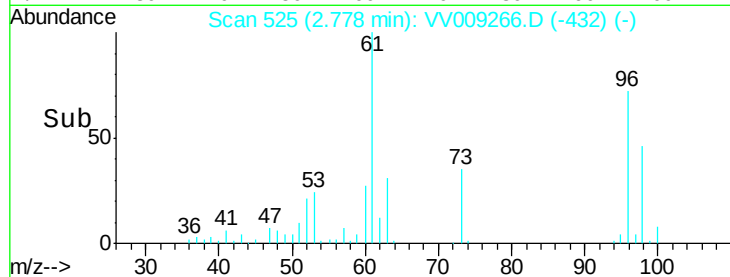
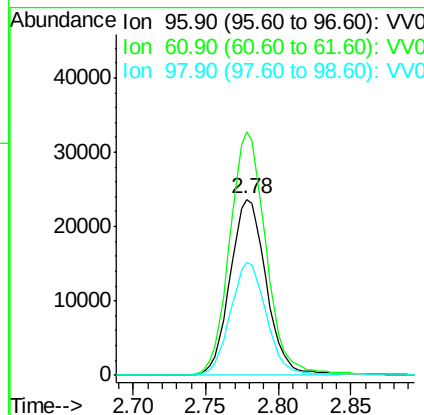
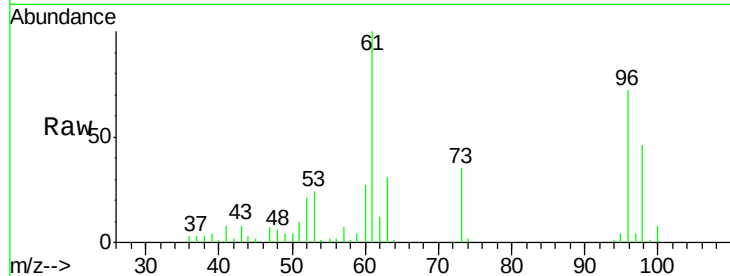
ClientSampleId :

VSTDCCC050EC

Tot Ion:	96	Resp:	40996
Ion	Ratio	Lower	Upper
96	100		
61	138.4	112.1	168.1
98	64.1	52.8	79.2

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#22

Diisopropyl ether

Concen: 46.326 ug/l

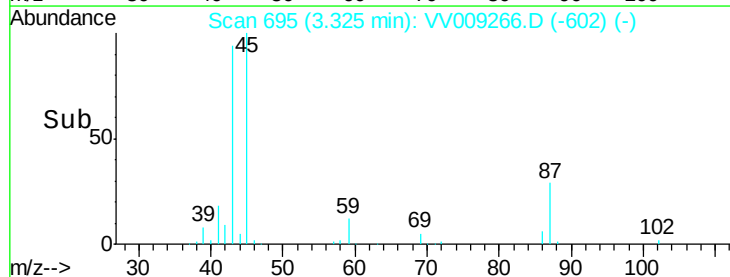
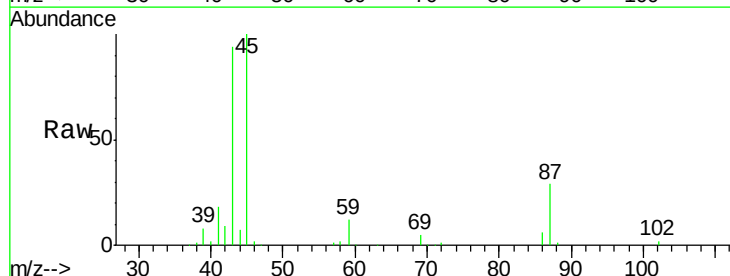
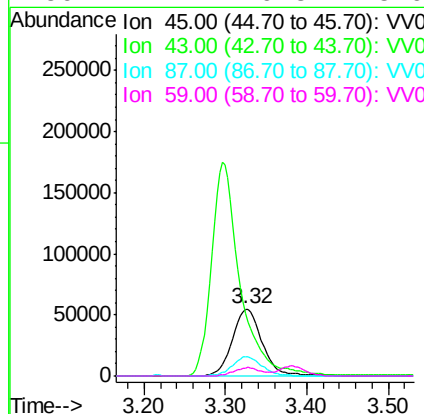
RT: 3.32 min Scan# 695

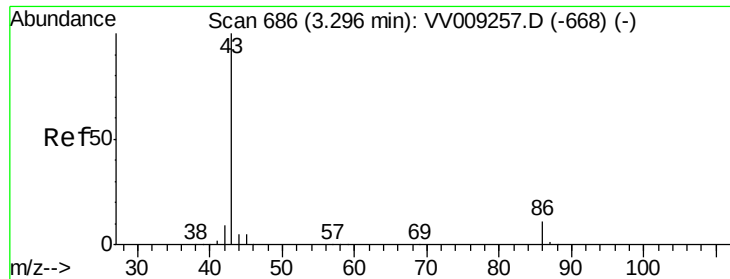
Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tgt Ion:	45	Resp:	140927
Ion	Ratio	Lower	Upper
45	100		
43	92.0	75.3	112.9
87	29.3	22.4	33.6
59	12.1	9.3	13.9





#23

Vinyl Acetate

Concen: 229.890 ug/l

RT: 3.30 min Scan# 686

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 431134

Ion Ratio Lower Upper

43 100

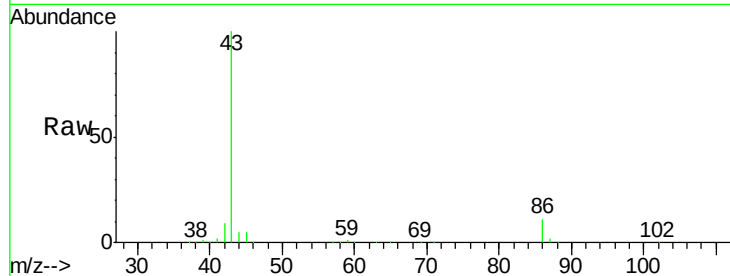
86 10.8 8.5 12.7

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VV009257.D (-668) (-)

Ion 86.00 (85.70 to 86.70): VV009257.D (-668) (-)

200000

150000

100000

50000

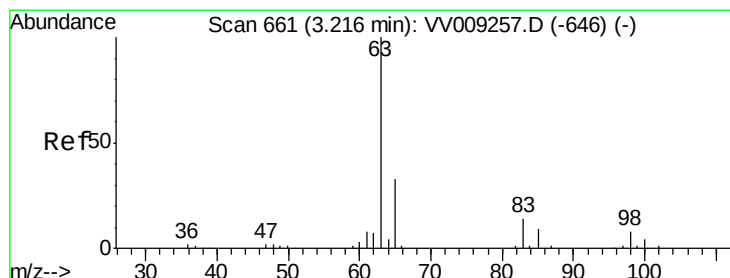
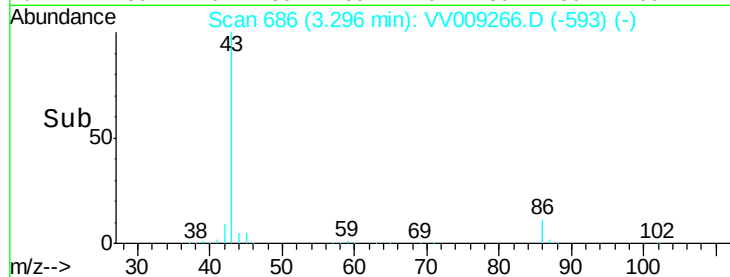
0

3.20

3.30

3.40

Time-->



#24

1,1-Dichloroethane

Concen: 45.748 ug/l

RT: 3.22 min Scan# 661

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

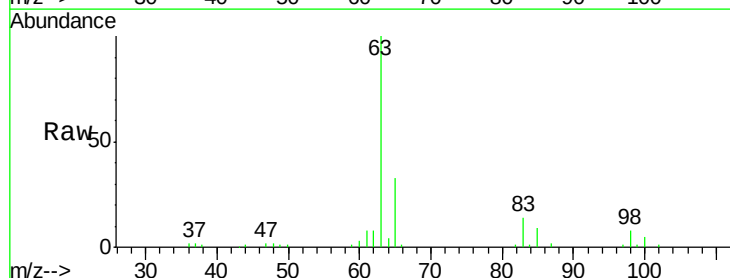
Tgt Ion: 63 Resp: 85949

Ion Ratio Lower Upper

63 100

98 7.6 3.8 11.4

100 4.5 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VV009257.D (-646) (-)

Ion 97.90 (97.60 to 98.60): VV009257.D (-646) (-)

Ion 99.90 (99.60 to 100.60): VV009257.D (-646) (-)

50000

40000

30000

20000

10000

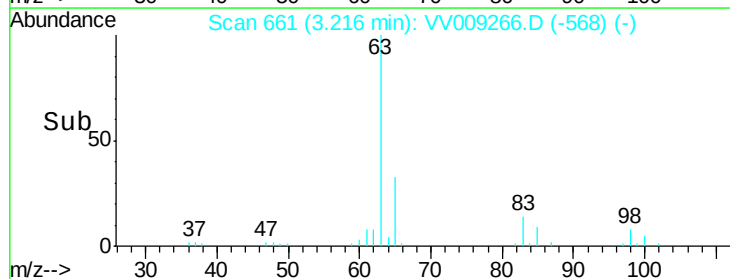
0

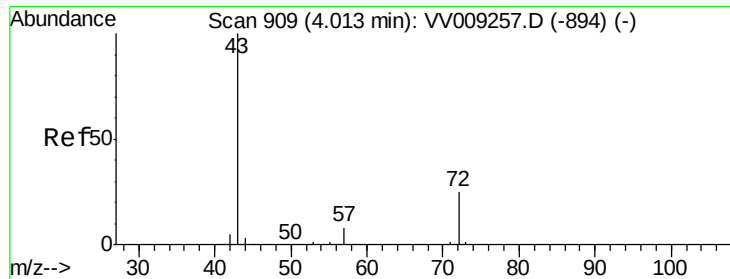
3.10

3.20

3.30

Time-->





#25

2-Butanone

Concen: 201.738 ug/l

RT: 4.01 min Scan# 909

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 74695

Ion Ratio Lower Upper

43 100

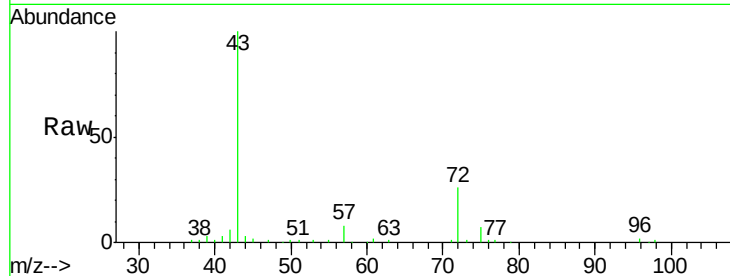
72 25.4 20.2 30.4

Manual Integrations

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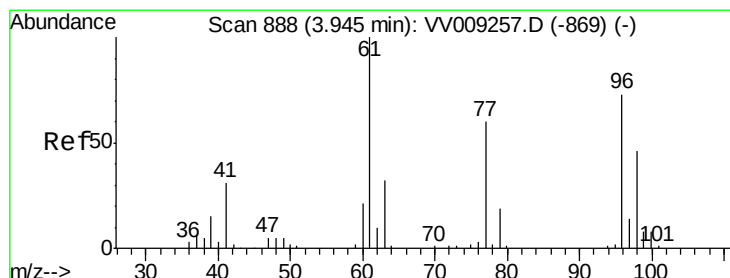
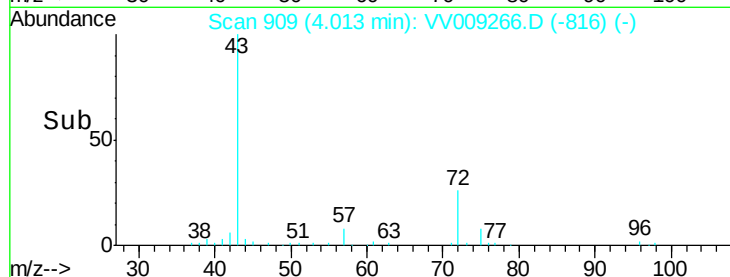
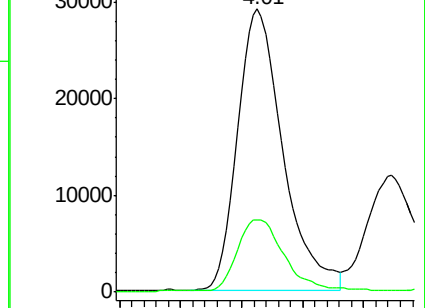
MMDadoda

1/25/2019 10:01:58 AM



Abundance Ion 43.00 (42.70 to 43.70): VV009257.D (-894) (-)

Ion 72.00 (71.70 to 72.70): VV009257.D (-894) (-)



#26

2,2-Dichloropropane

Concen: 44.226 ug/l

RT: 3.95 min Scan# 888

Delta R.T. -0.00 min

Lab File: VV009266.D

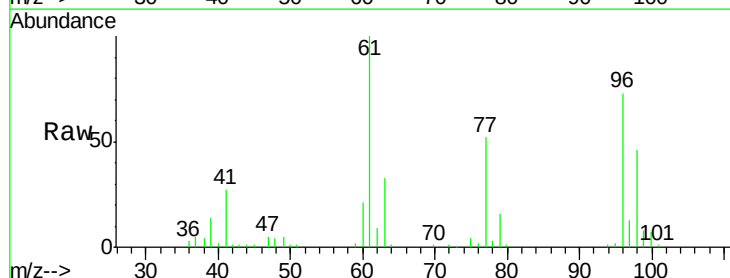
Acq: 24 Jan 2019 18:53

Tgt Ion: 77 Resp: 42136

Ion Ratio Lower Upper

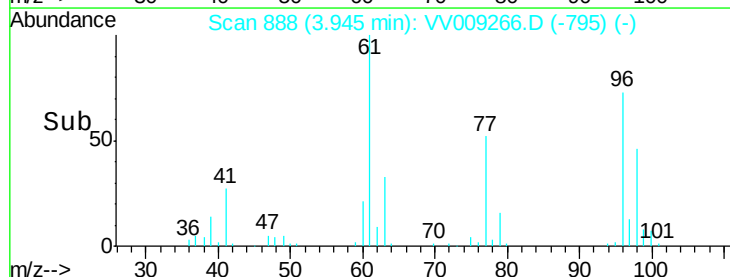
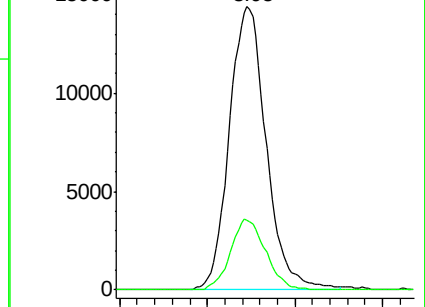
77 100

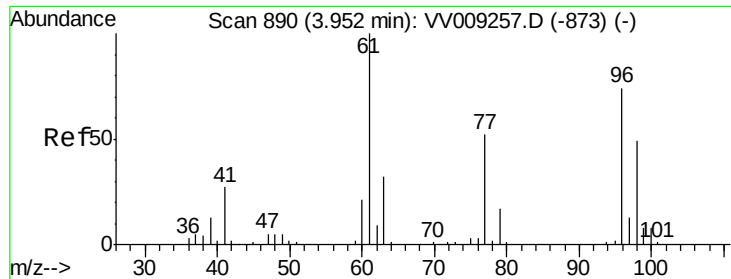
97 23.7 11.7 35.1



Abundance Ion 76.90 (76.60 to 77.60): VV009257.D (-869) (-)

Ion 96.90 (96.60 to 97.60): VV009257.D (-869) (-)





#27

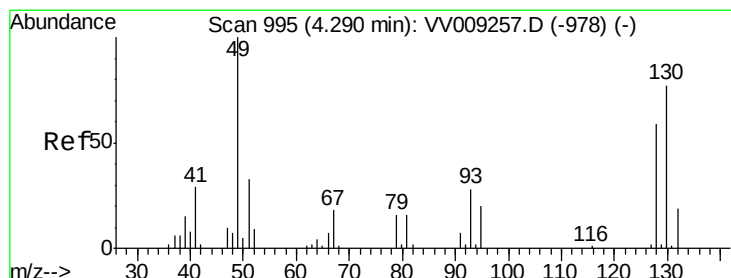
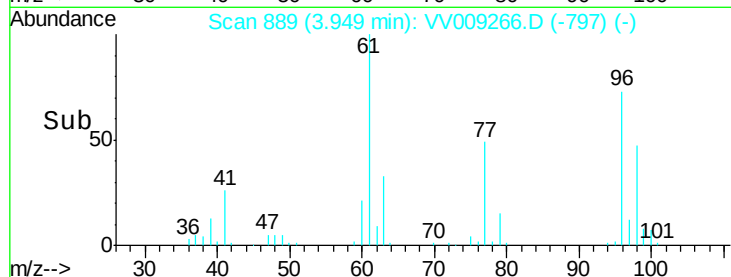
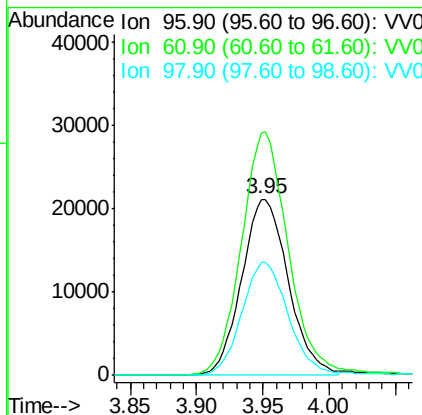
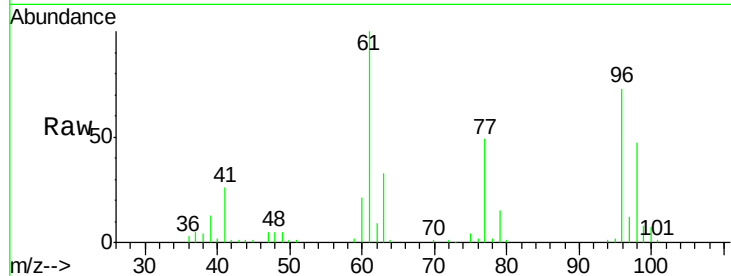
cis-1,2-Dichloroethene
 Concen: 46.375 ug/l
 RT: 3.95 min Scan# 889
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.9	0.0	277.6
98	64.8	0.0	127.6

Manual Integrations
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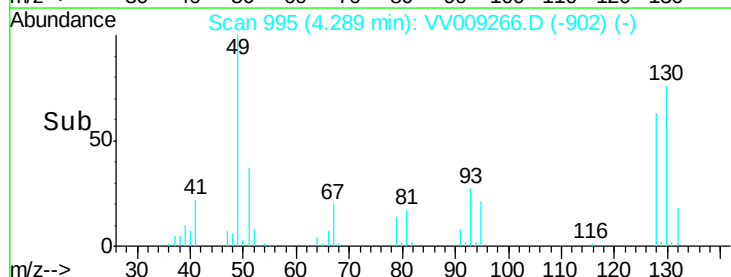
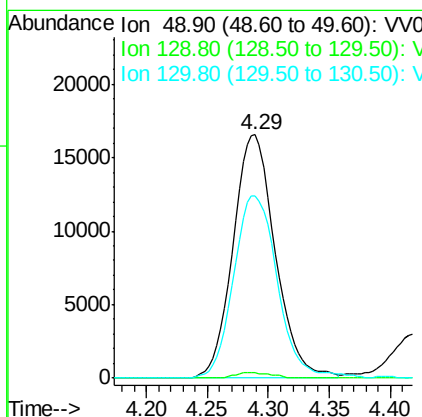
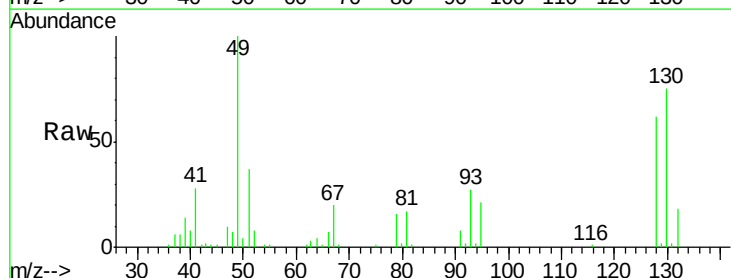
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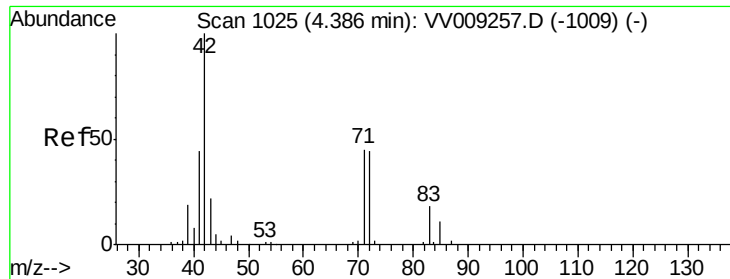


#28

Bromochloromethane
 Concen: 52.660 ug/l
 RT: 4.29 min Scan# 995
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.6
130	77.9	63.8	95.8





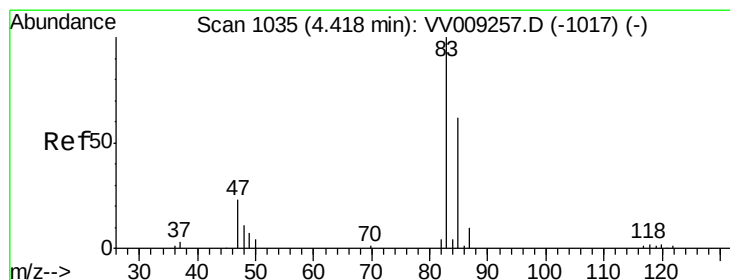
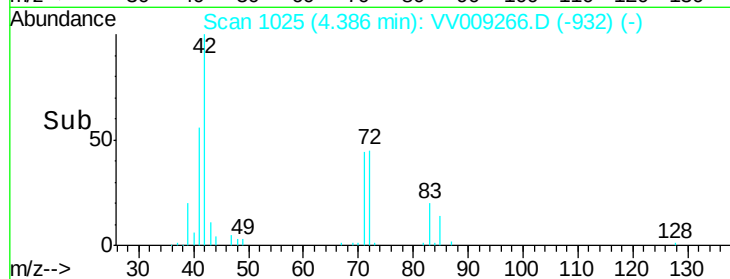
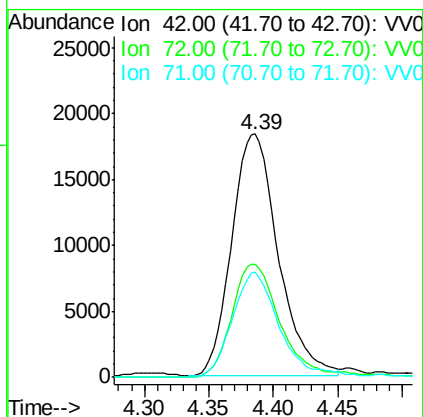
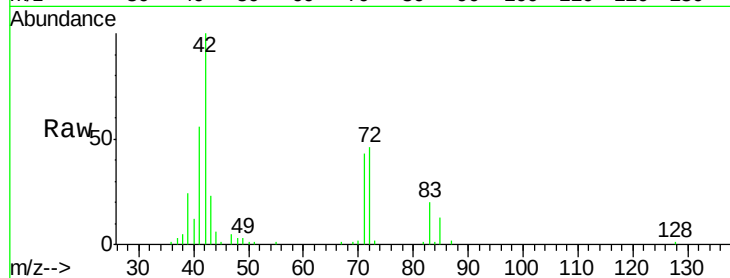
#29
Tetrahydrofuran
Concen: 218.407 ug/l
RT: 4.39 min Scan# 1025
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.8	36.0	54.0
71	43.9	33.3	49.9

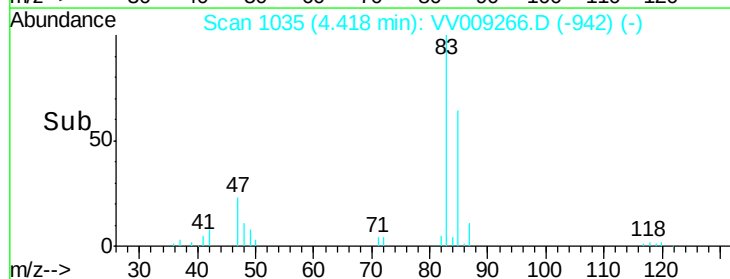
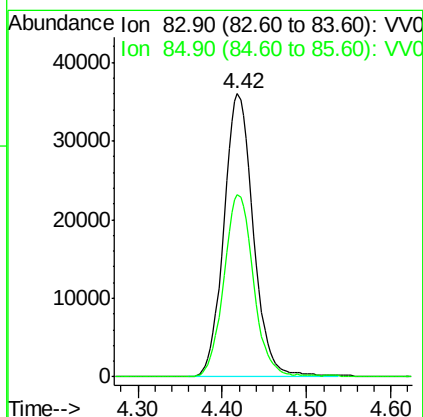
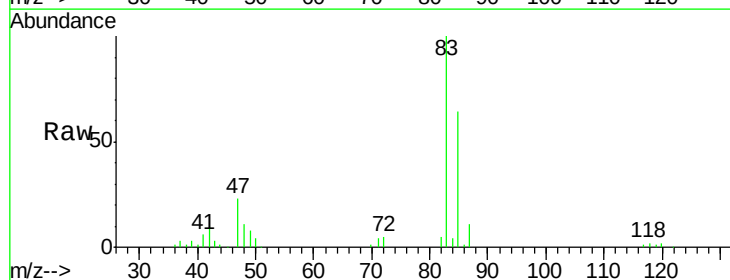
Manual Integrations
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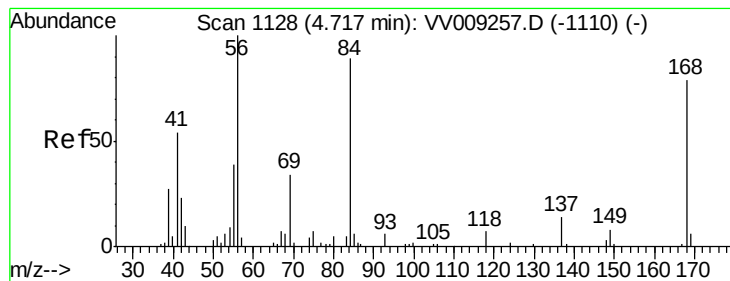
MMDadoda
1/25/2019 10:01:58 AM



#30
Chloroform
Concen: 46.453 ug/l
RT: 4.42 min Scan# 1035
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	49.9	74.9





#31

Cyclohexane

Concen: 42.130 ug/l

RT: 4.72 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

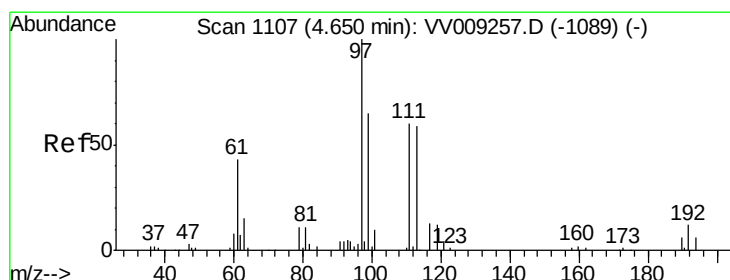
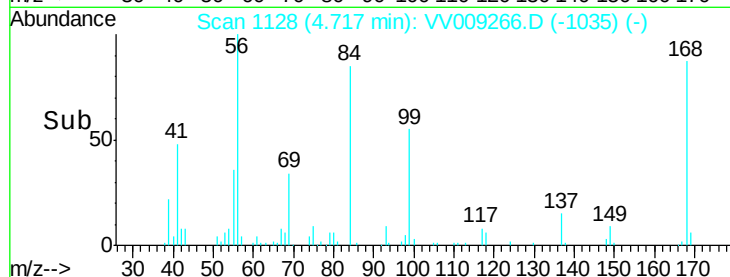
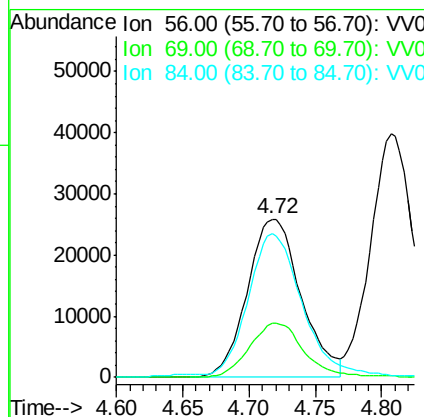
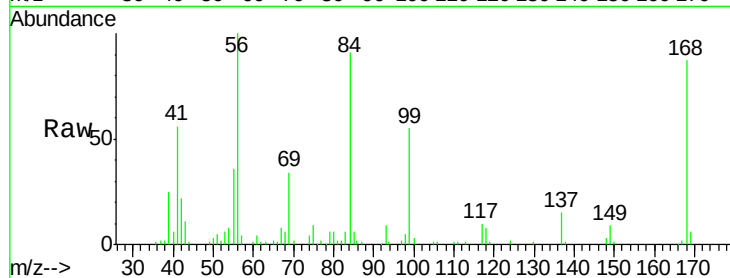
ClientSampleId :

VSTDCCC050EC

Tot Ion:	56	Resp:	72970
Ion	Ratio	Lower	Upper
56	100		
69	34.1	27.5	41.3
84	89.1	70.9	106.3

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 45.473 ug/l

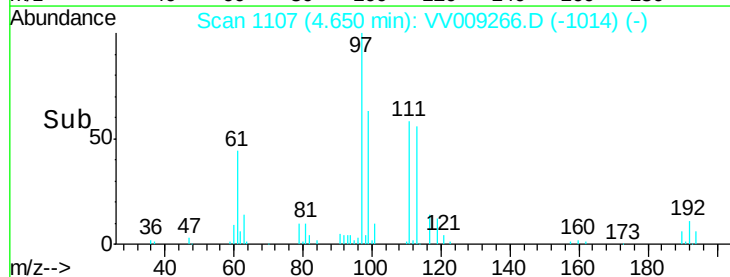
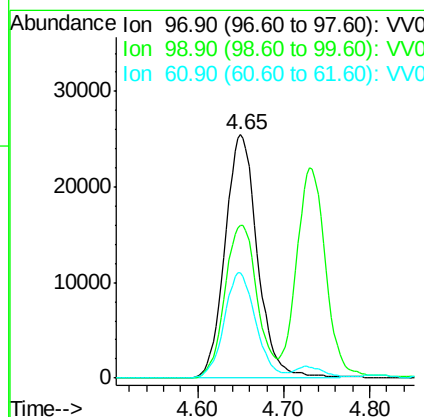
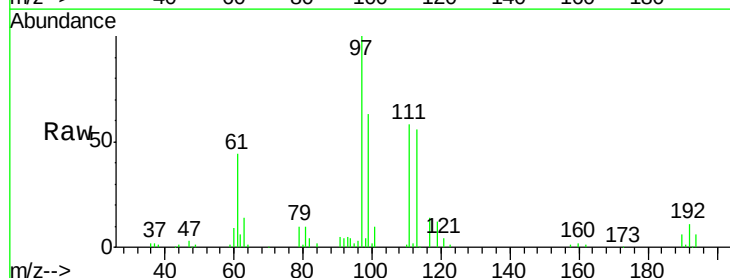
RT: 4.65 min Scan# 1107

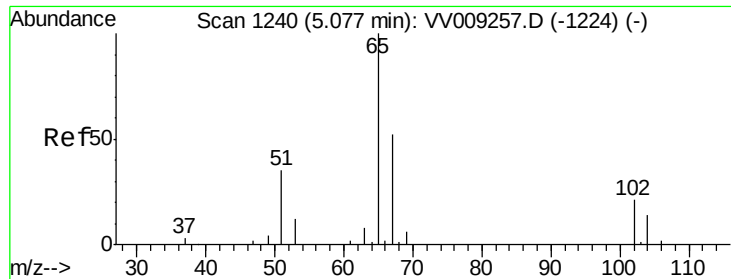
Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tgt Ion:	97	Resp:	66742
Ion	Ratio	Lower	Upper
97	100		
99	62.4	49.8	74.8
61	42.0	33.4	50.0





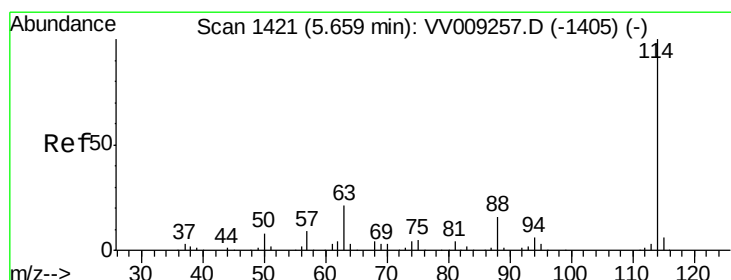
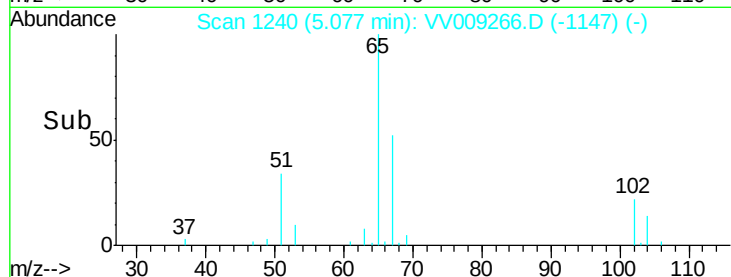
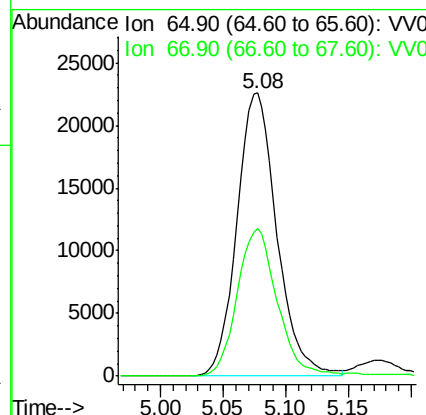
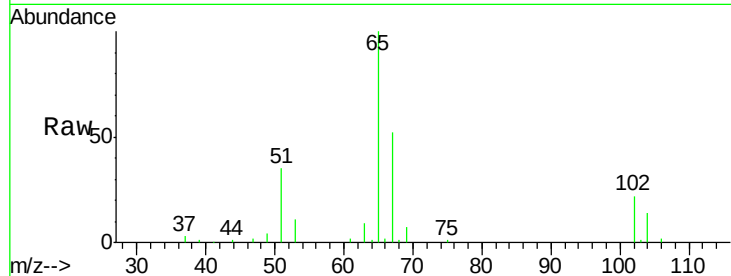
#33
 1,2-Dichloroethane-d4
 Concen: 48.542 ug/l
 RT: 5.08 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
65	100	50070		
67	51.8		0.0	105.6

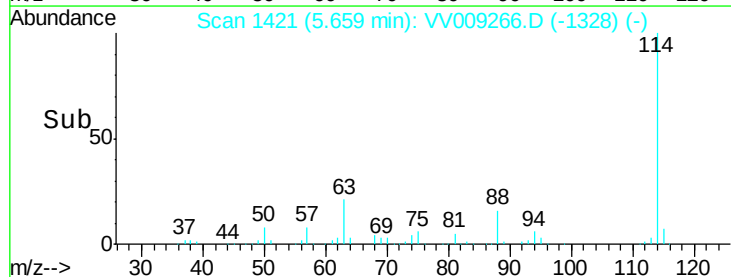
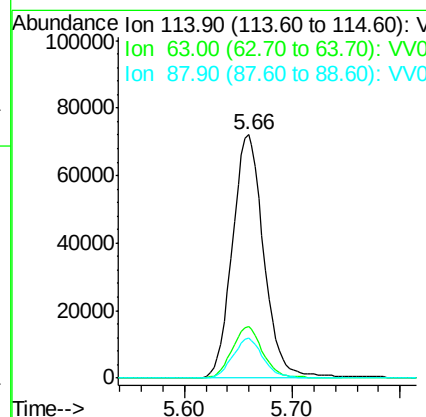
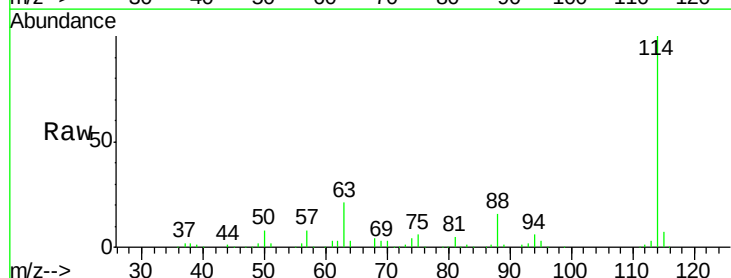
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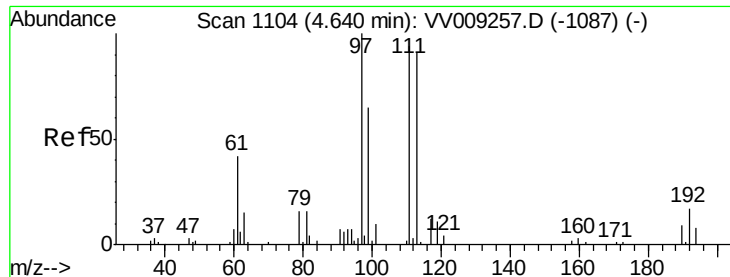
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.66 min Scan# 1421
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	146756		
63	21.2		0.0	41.4
88	16.3		0.0	33.0





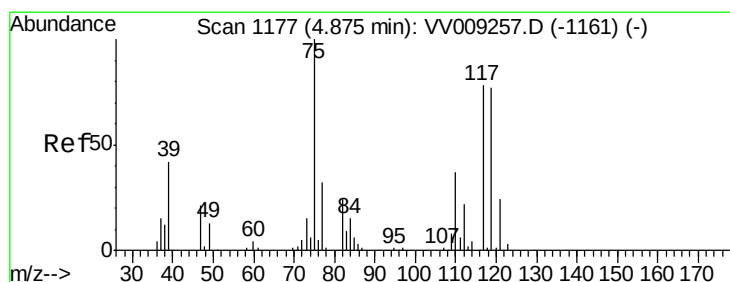
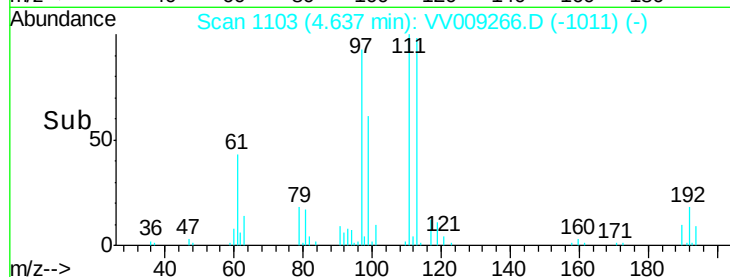
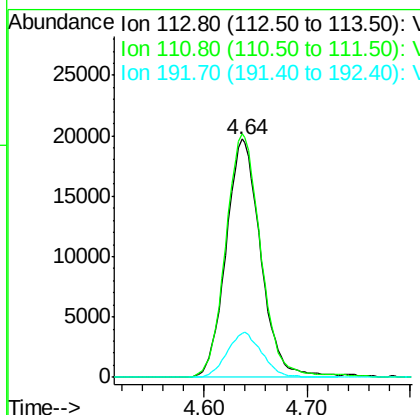
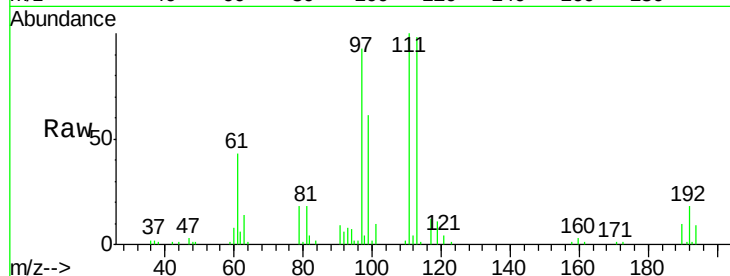
#35
 Dibromofluoromethane
 Concen: 47.597 ug/l
 RT: 4.64 min Scan# 1103
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.3	123.5
192	18.7	15.0	22.6

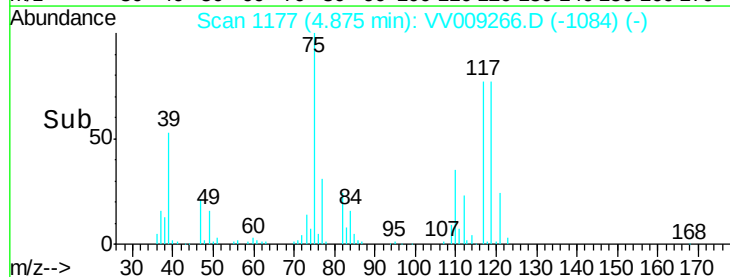
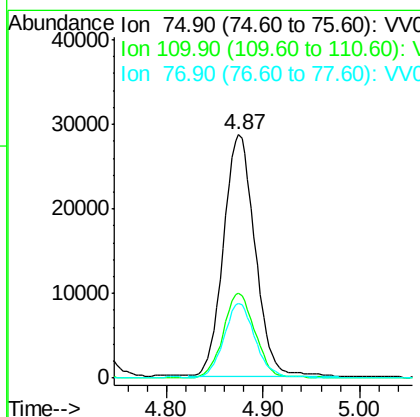
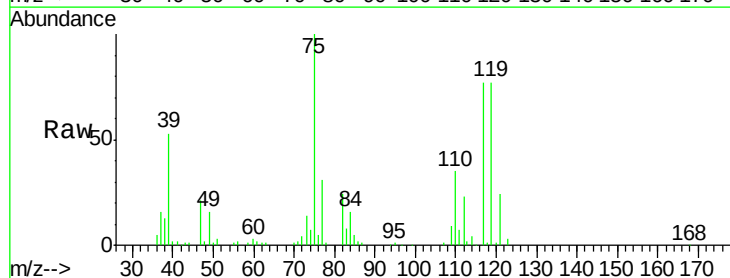
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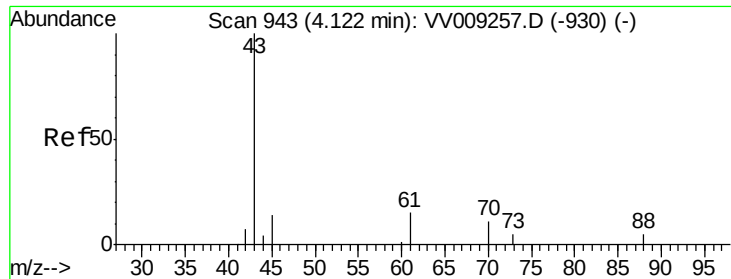
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#36
 1,1-Dichloropropene
 Concen: 43.804 ug/l
 RT: 4.87 min Scan# 1177
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.7	17.6	52.9
77	31.1	25.5	38.3





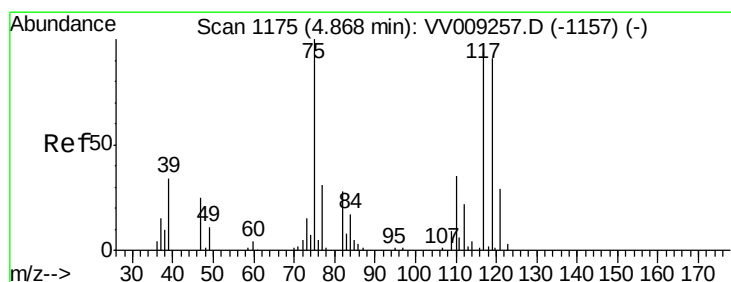
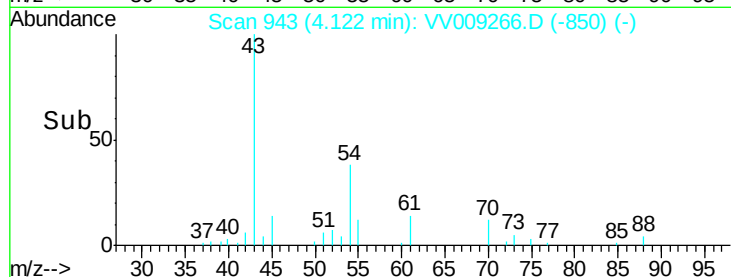
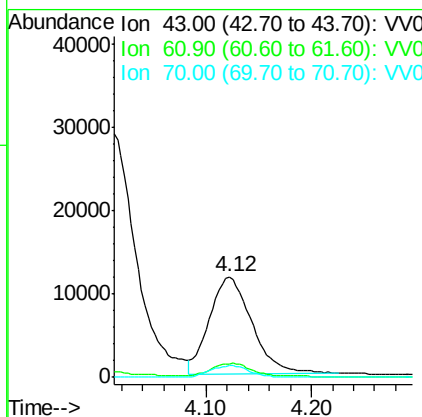
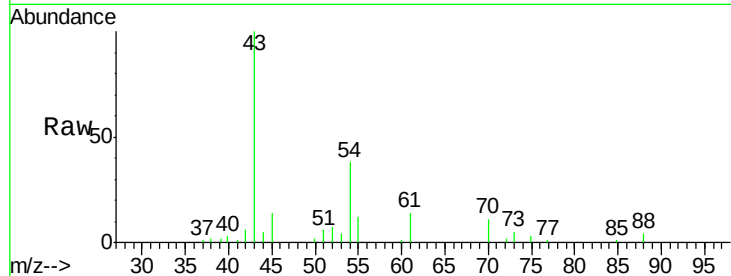
#37
Ethyl Acetate
Concen: 38.287 ug/l
RT: 4.12 min Scan# 943
Delta R.T. 0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.6	15.8
70	10.8	8.0	12.0

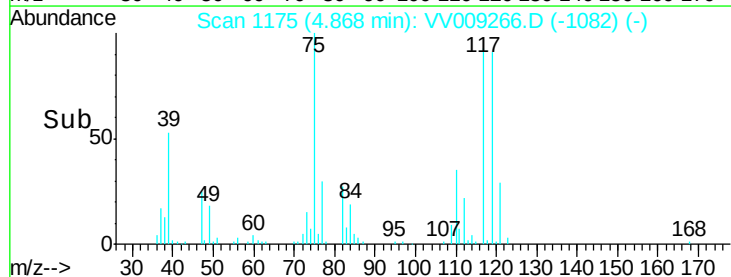
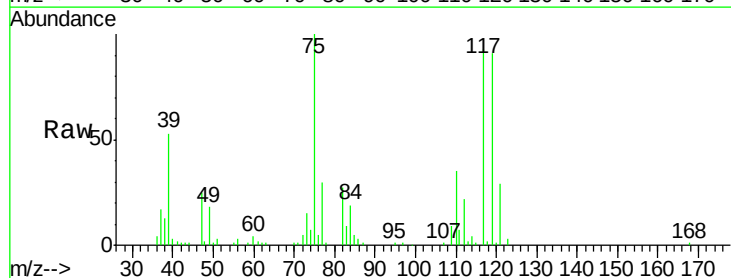
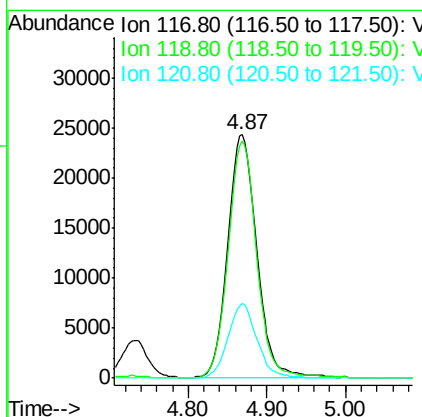
Manual Integrations
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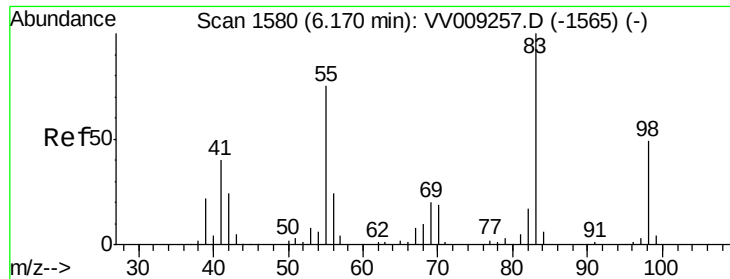
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#38
Carbon Tetrachloride
Concen: 43.111 ug/l
RT: 4.87 min Scan# 1175
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.2	77.4	116.2
121	30.8	24.8	37.2





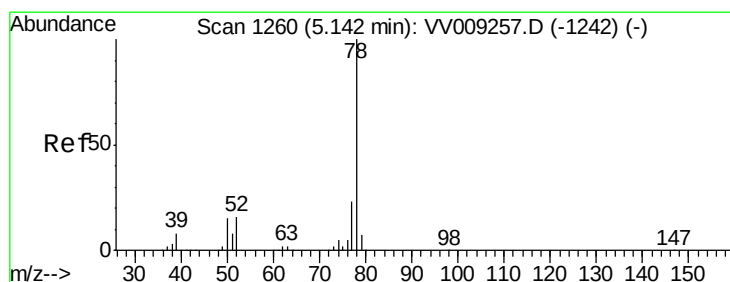
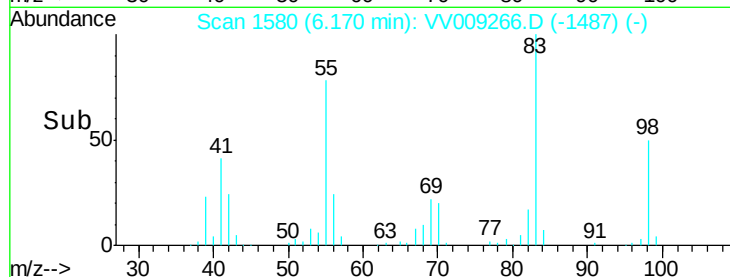
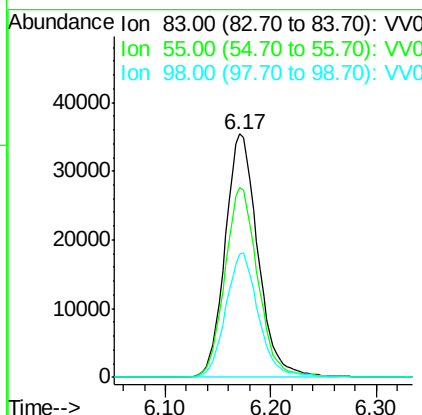
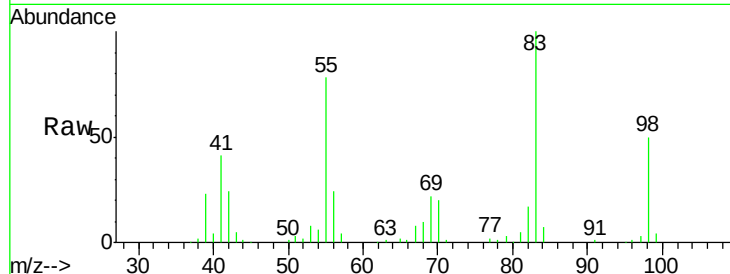
#39
Methylvlcyclohexane
Concen: 41.429 ug/l
RT: 6.17 min Scan# 1580
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.0	60.1	90.1
98	50.4	39.2	58.8

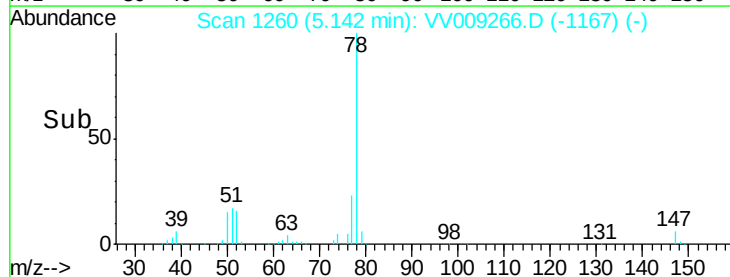
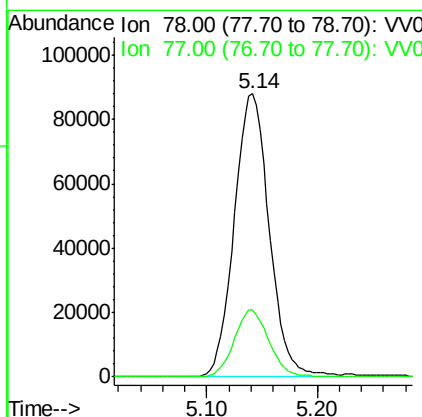
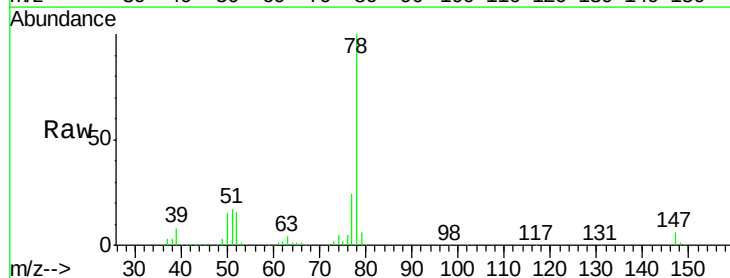
Manual Integrations
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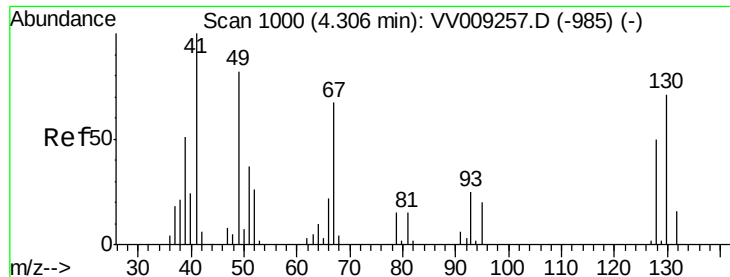
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#40
Benzene
Concen: 44.752 ug/l
RT: 5.14 min Scan# 1260
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.6	27.8





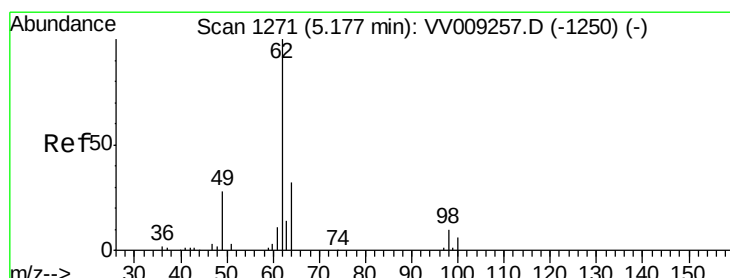
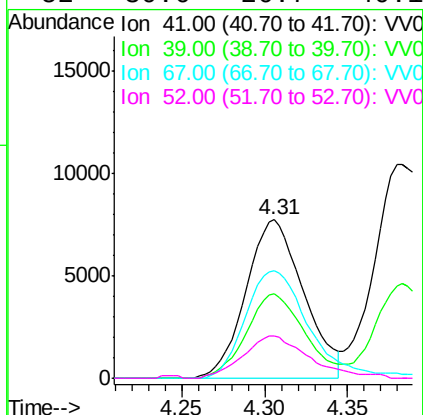
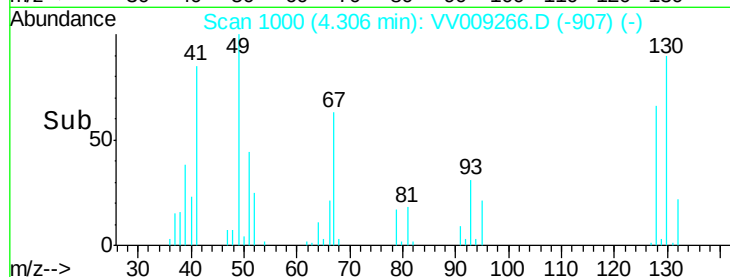
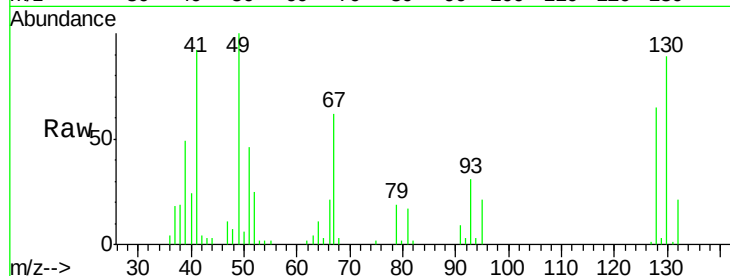
#41
Methacrylonitrile
Concen: 43.745 ug/l
RT: 4.31 min Scan# 1000
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.1	42.3	63.5	
67	75.9	57.4	86.2	
52	30.6	26.7	40.1	

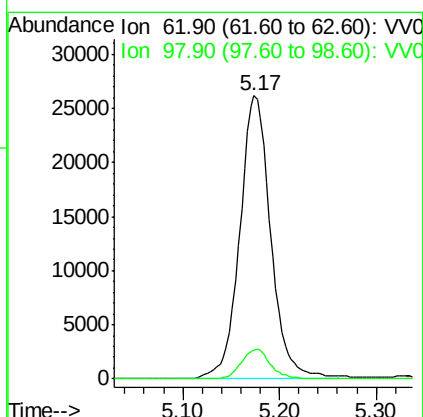
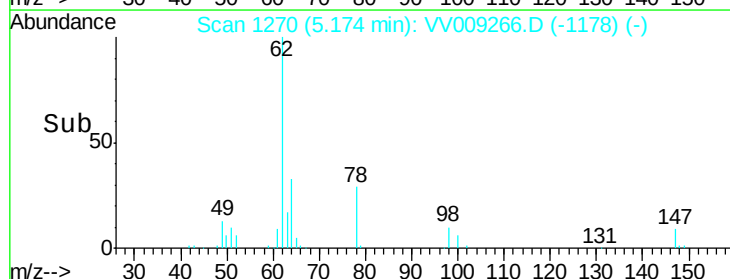
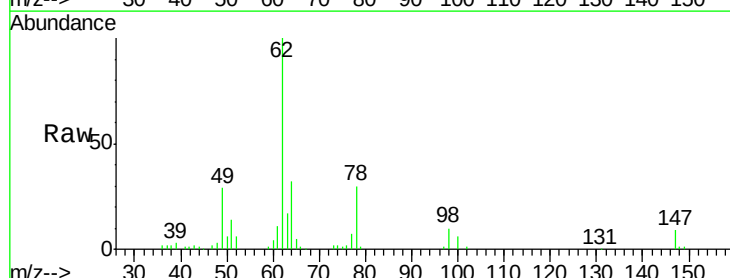
Manual Integrations
APPROVED

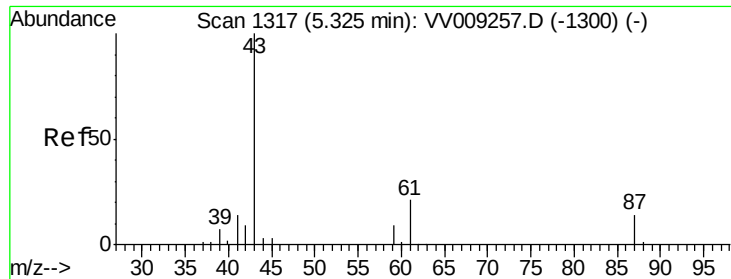
MMDadoda
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#42
1,2-Dichloroethane
Concen: 43.254 ug/l
RT: 5.17 min Scan# 1270
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.6	0.0	19.2	





#43

Isopropyl Acetate

Concen: 43.130 ug/l

RT: 5.32 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

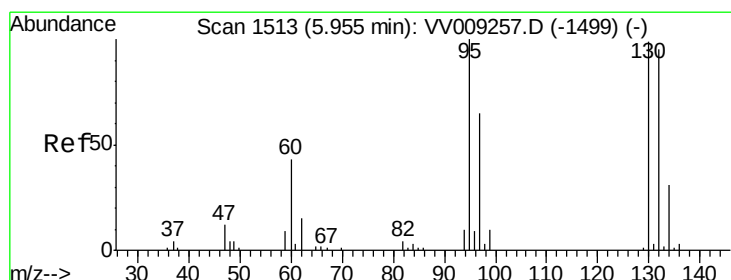
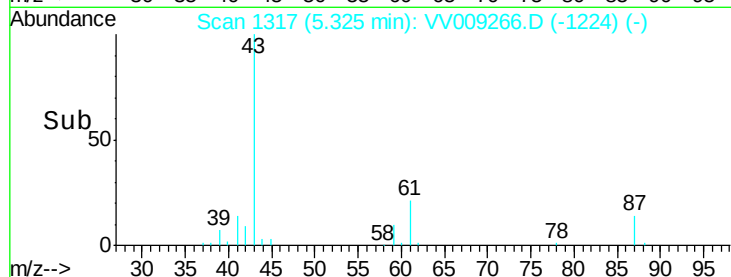
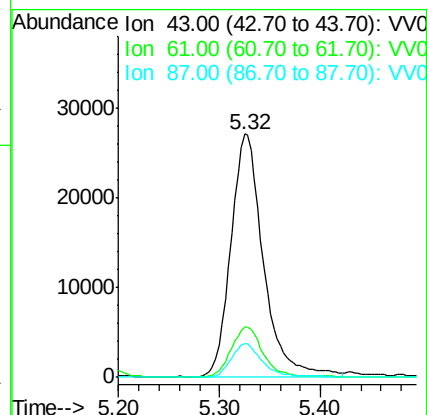
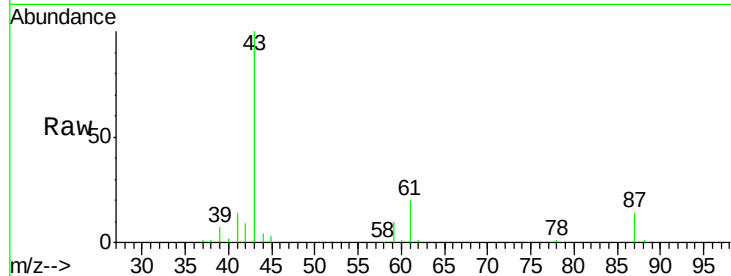
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	61395
Ion	Ratio	Lower	Upper
43	100		
61	20.3	15.8	23.6
87	13.0	10.1	15.1

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#44

Trichloroethene

Concen: 44.217 ug/l

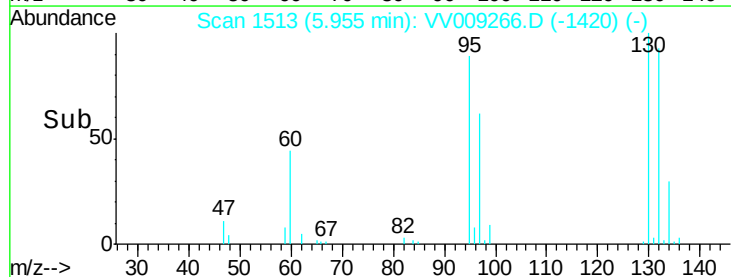
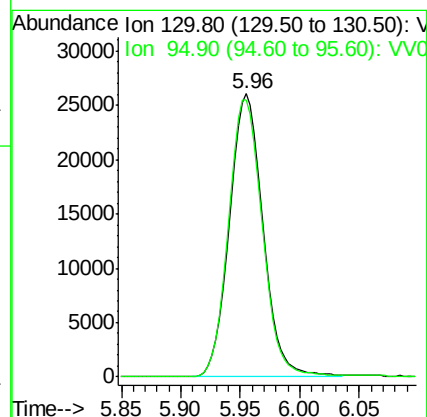
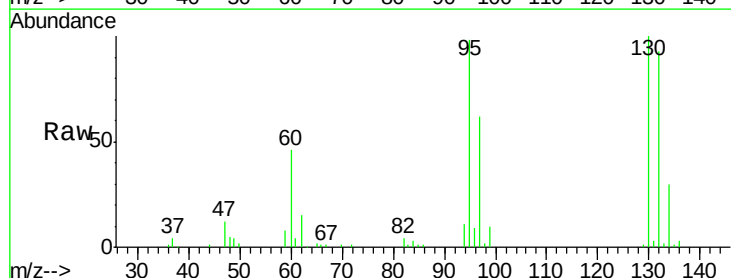
RT: 5.96 min Scan# 1513

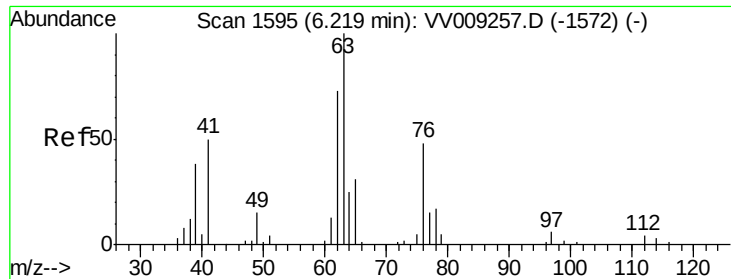
Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tgt Ion:	130	Resp:	51086
Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	201.4





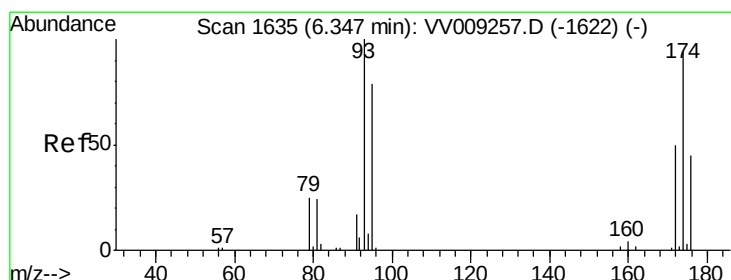
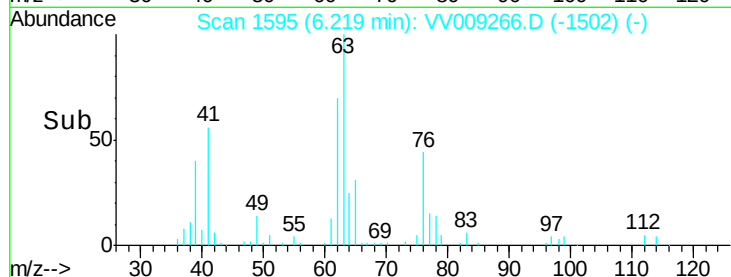
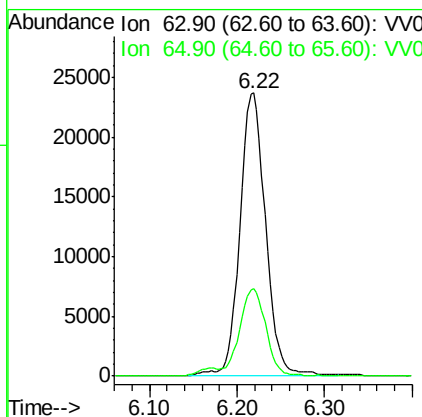
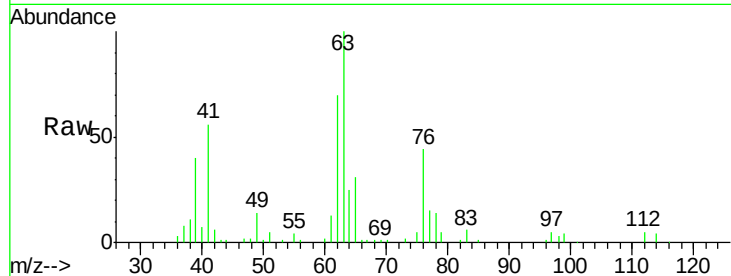
#45
 1,2-Dichloropropane
 Concen: 45.669 ug/l
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 63 Resp: 48672
 Ion Ratio Lower Upper
 63 100
 65 30.8 25.4 38.2

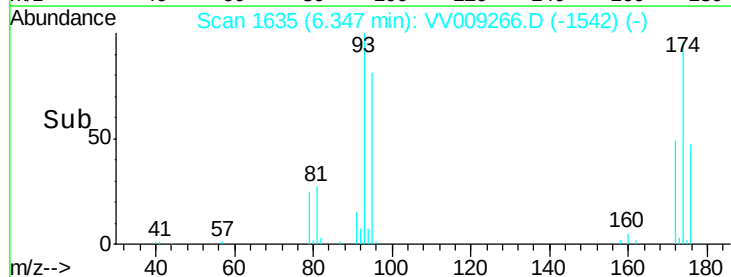
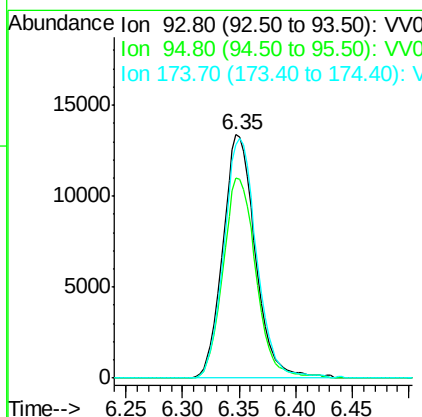
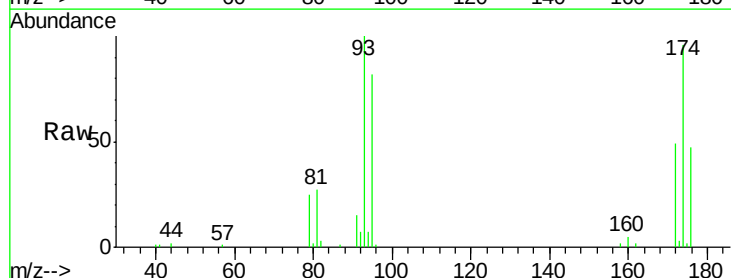
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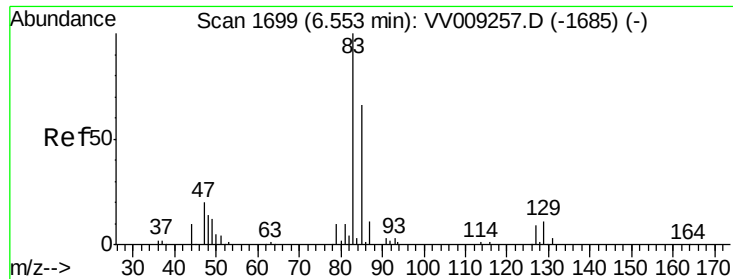
MMDadoda
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#46
 Dibromomethane
 Concen: 44.747 ug/l
 RT: 6.35 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Tgt Ion: 93 Resp: 26716
 Ion Ratio Lower Upper
 93 100
 95 83.5 65.3 97.9
 174 99.0 77.0 115.4





#47

Bromodichloromethane

Concen: 45.330 ug/l

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

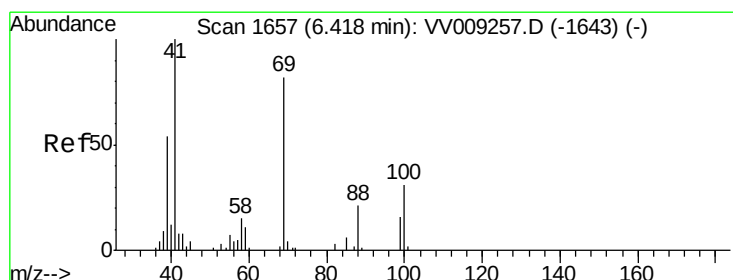
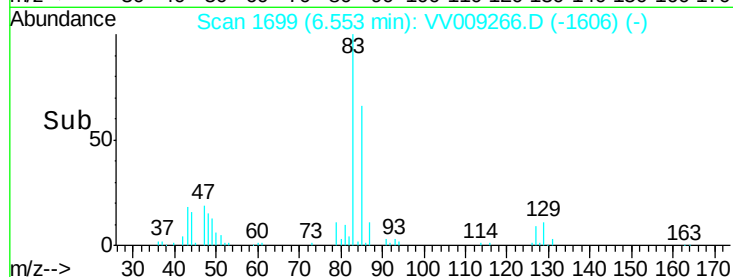
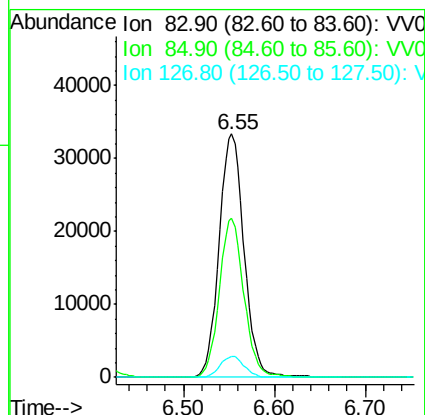
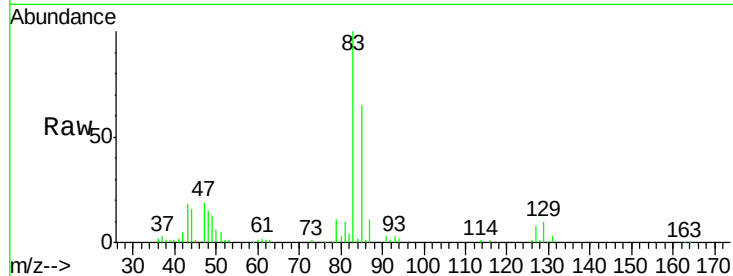
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	63659
Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.6	79.0
127	8.5	7.0	10.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 44.310 ug/l

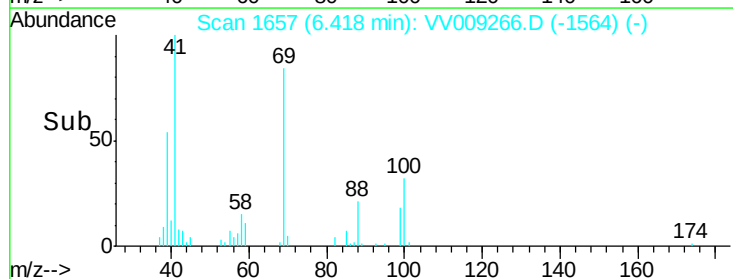
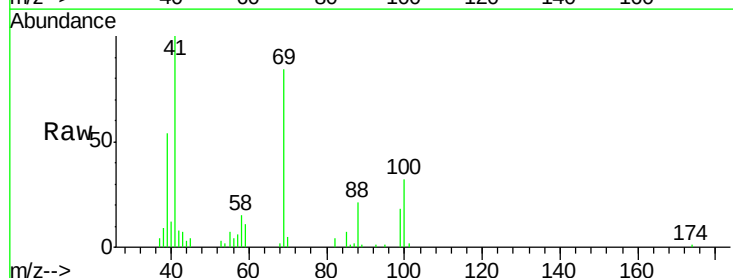
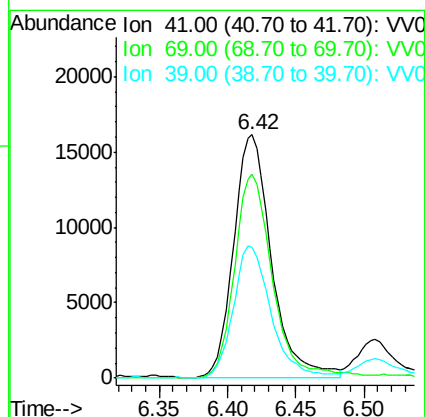
RT: 6.42 min Scan# 1657

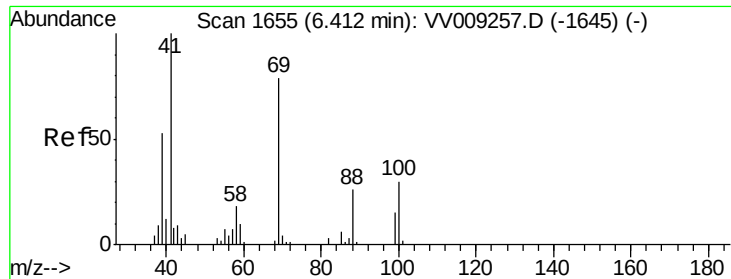
Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tgt Ion:	41	Resp:	31289
Ion	Ratio	Lower	Upper
41	100		
69	83.8	68.6	103.0
39	53.7	43.2	64.8





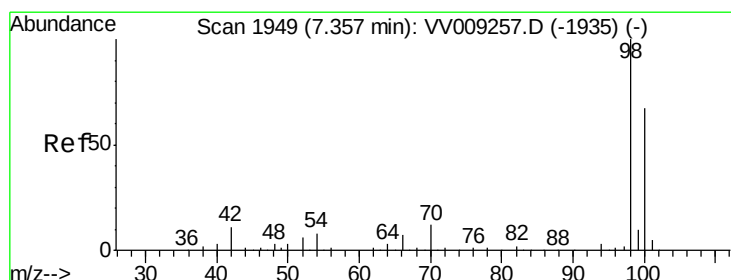
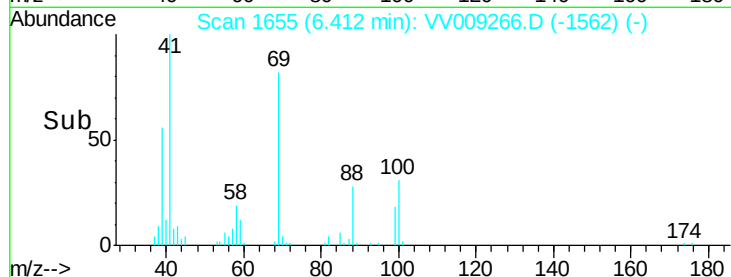
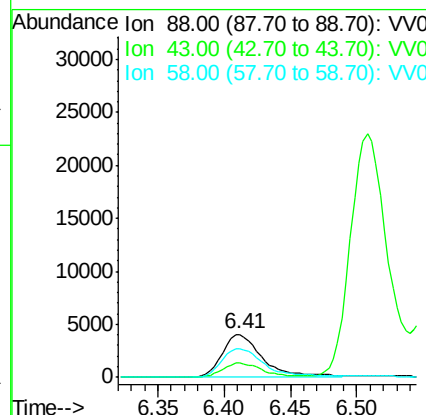
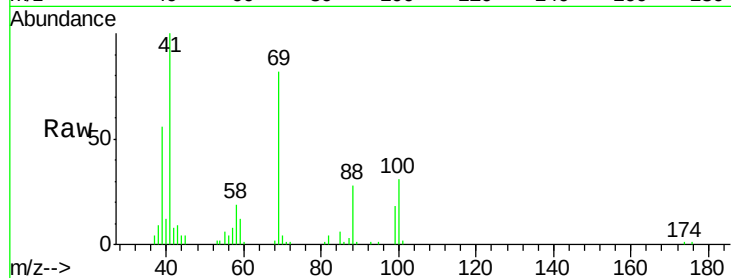
#49
1,4-Dioxane
Concen: 919.343 ug/l
RT: 6.41 min Scan# 1655
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
88	100	8613		
43	33.4		28.3	42.5
58	72.4		50.0	75.0

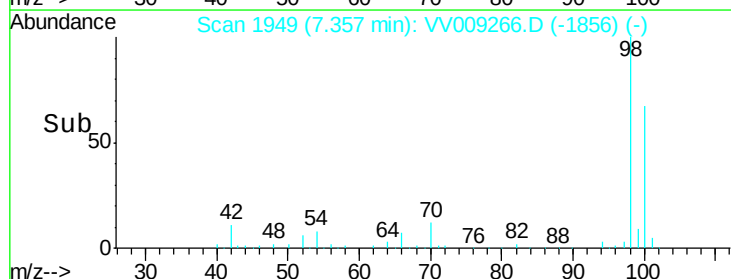
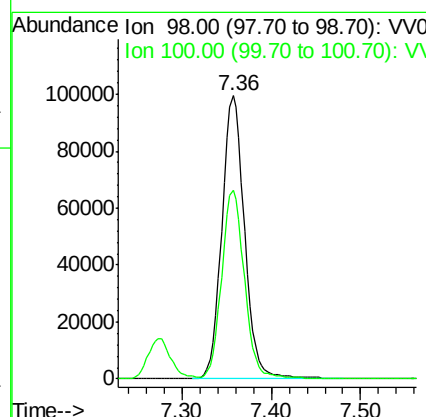
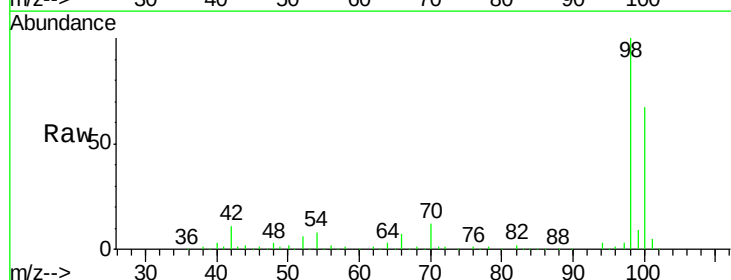
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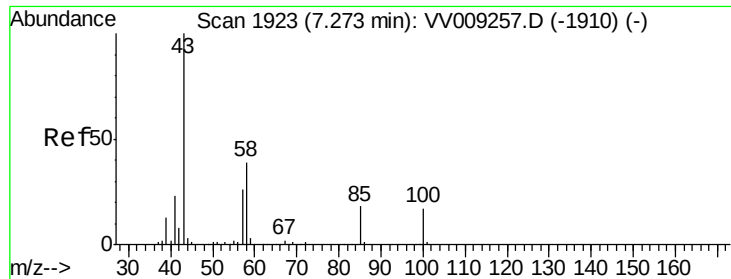
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#50
Toluene-d8
Concen: 47.530 ug/l
RT: 7.36 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Resp	Lower	Upper
98	100	175265		
100	66.2		53.2	79.8





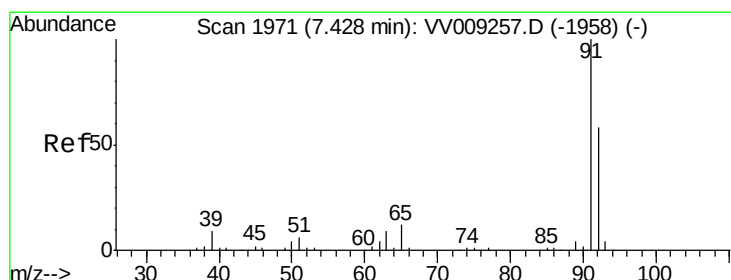
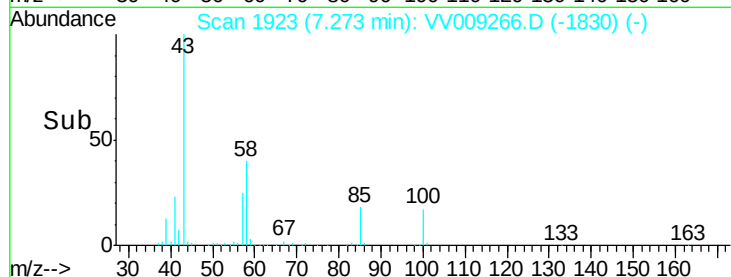
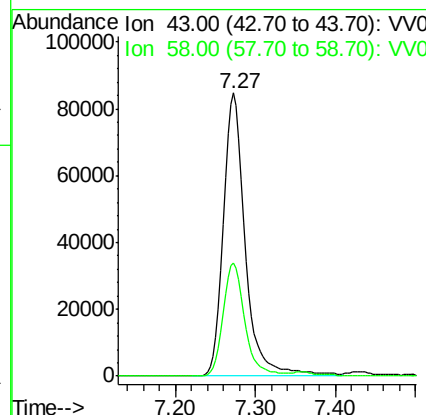
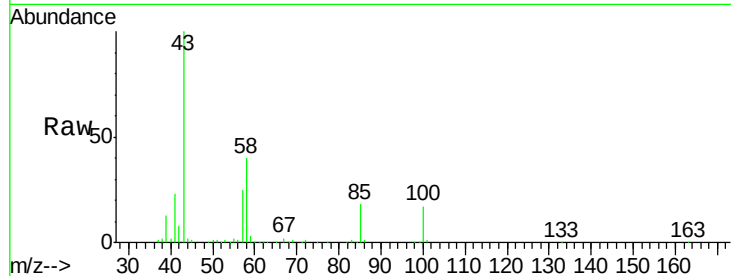
#51
4-Methyl-2-Pentanone
Concen: 216.011 ug/l
RT: 7.27 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	39.3	30.5	45.7

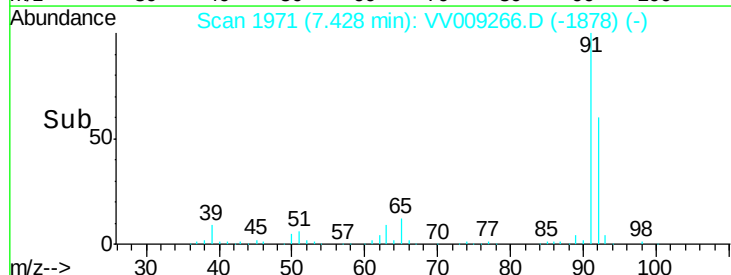
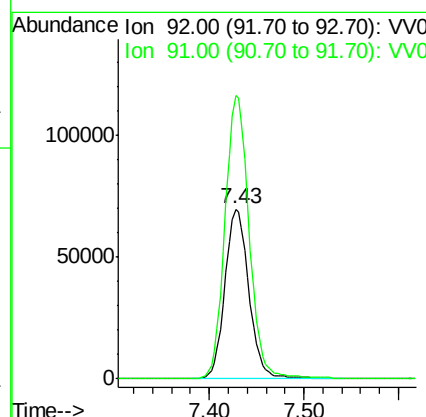
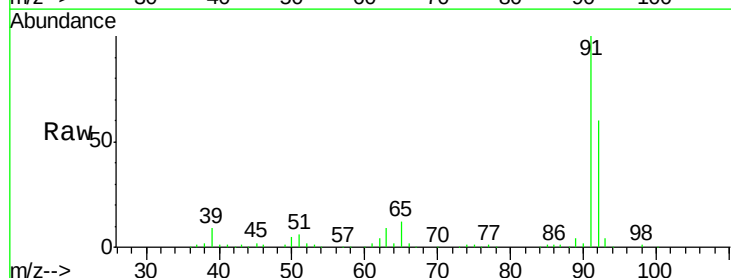
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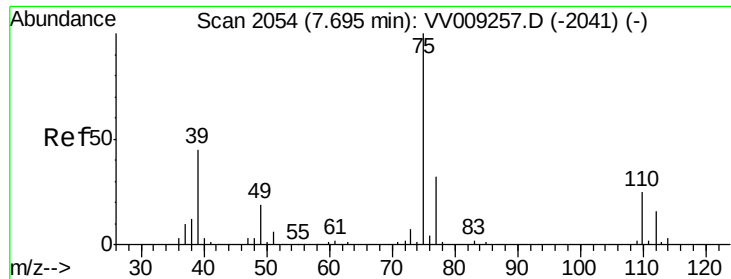
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1/25/2019 10:01:58 AM



#52
Toluene
Concen: 44.993 ug/l
RT: 7.43 min Scan# 1971
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Lower	Upper
92	100		
91	168.3	137.2	205.8





#53

t-1,3-Dichloropropene

Concen: 44.569 ug/l

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 63299

Ion Ratio Lower Upper

75 100

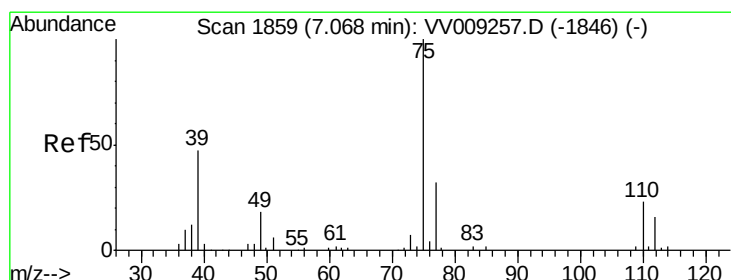
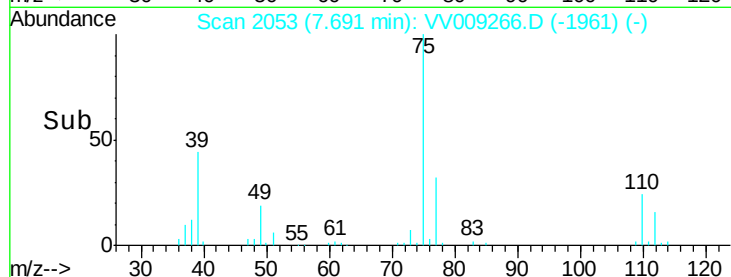
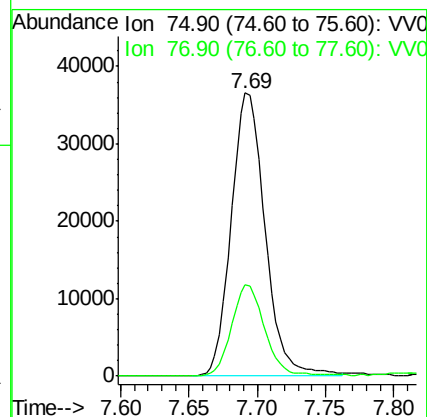
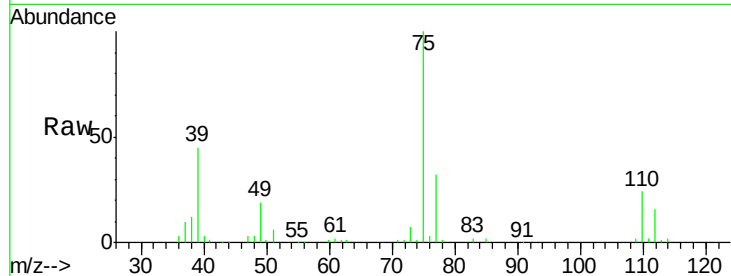
77 32.3 25.9 38.9

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#54

cis-1,3-Dichloropropene

Concen: 45.935 ug/l

RT: 7.07 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

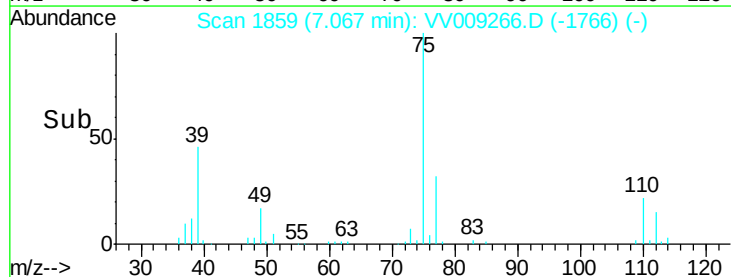
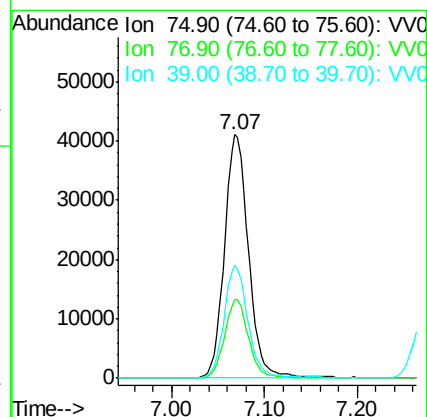
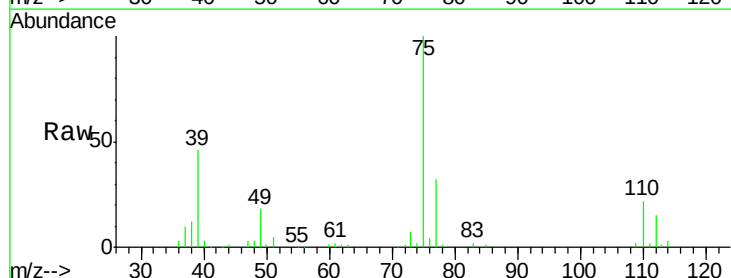
Tgt Ion: 75 Resp: 74013

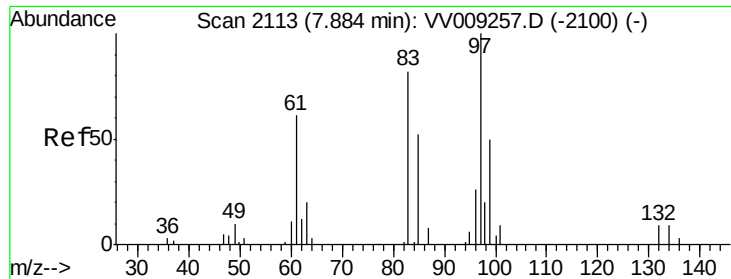
Ion Ratio Lower Upper

75 100

77 32.1 25.8 38.6

39 46.3 38.0 57.0





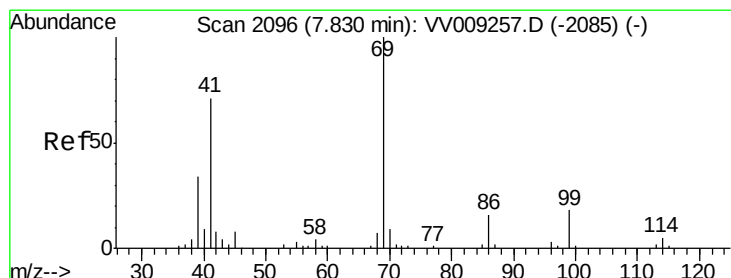
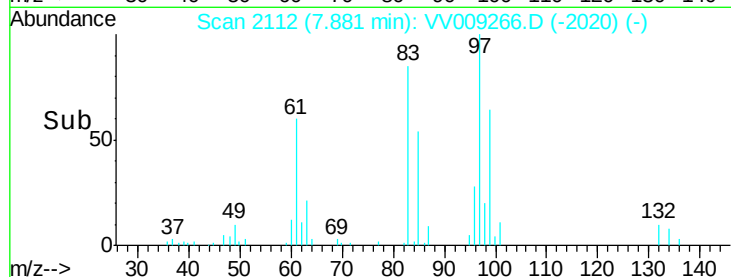
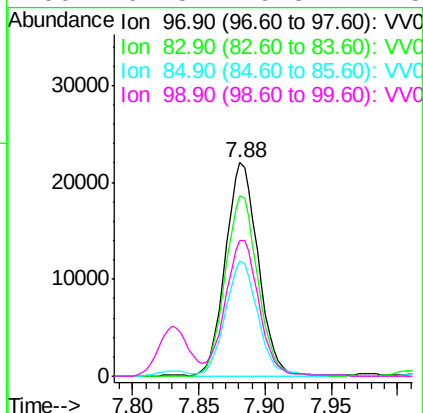
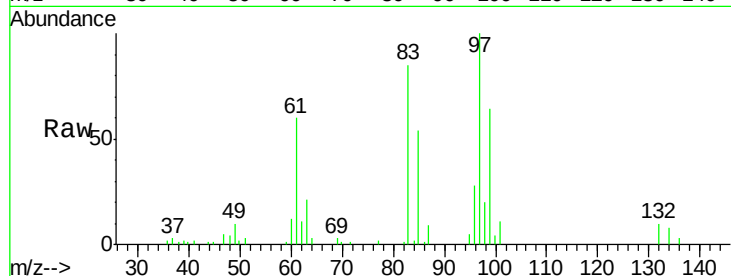
#55
1,1,2-Trichloroethane
Concen: 45.687 ug/l
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion:	97	Resp:	38035
Ion	Ratio	Lower	Upper
97	100		
83	84.5	65.6	98.4
85	53.5	41.8	62.8
99	62.8	49.8	74.8

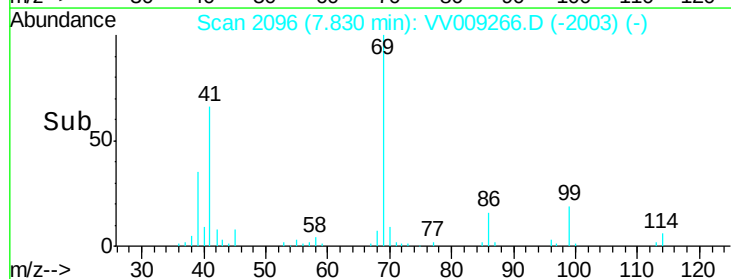
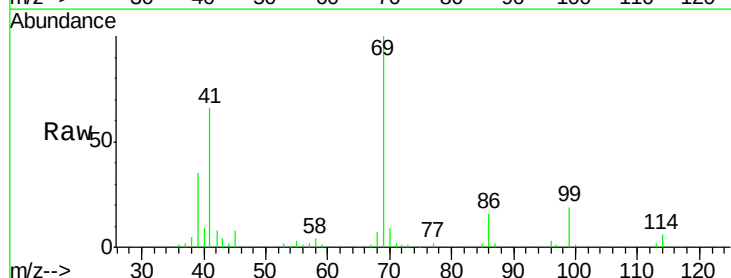
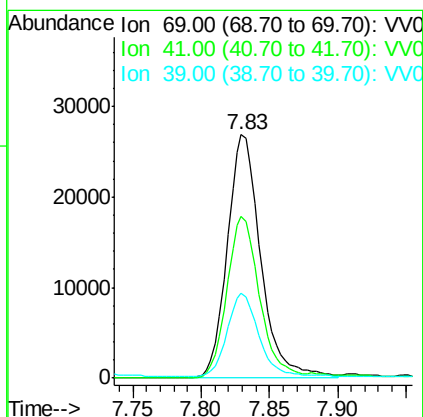
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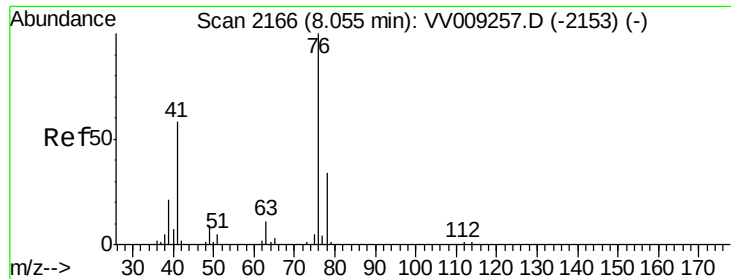
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#56
Ethyl methacrylate
Concen: 45.657 ug/l
RT: 7.83 min Scan# 2096
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion:	69	Resp:	45923
Ion	Ratio	Lower	Upper
69	100		
41	64.3	54.6	81.8
39	32.4	27.0	40.4





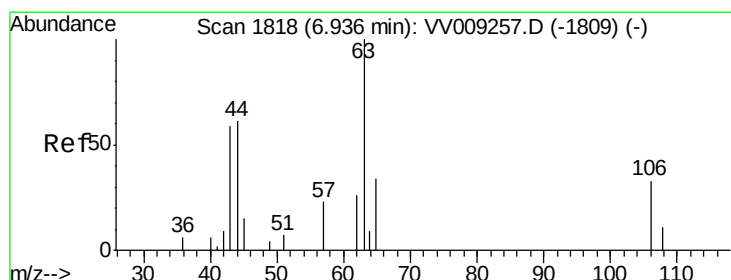
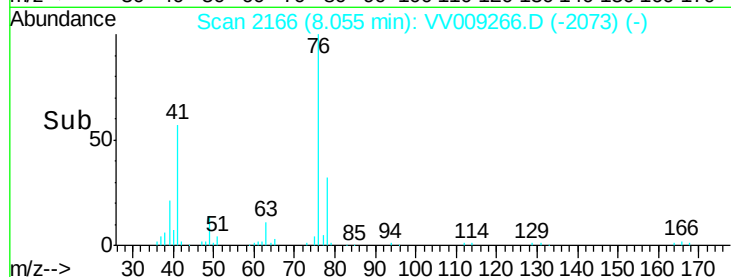
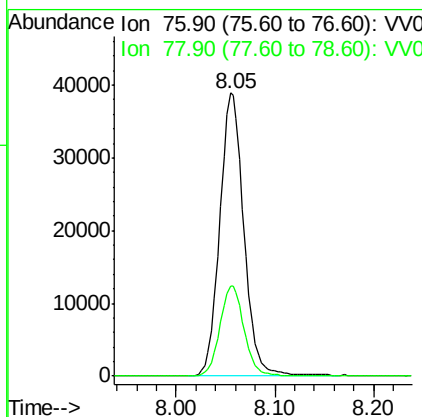
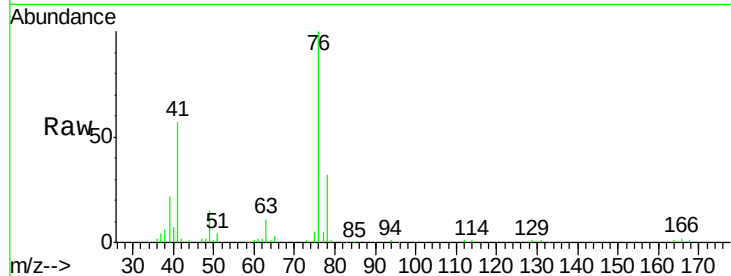
#57
 1,3-Dichloropropane
 Concen: 45.178 ug/l
 RT: 8.05 min Scan# 2166
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 67011
 Ion Ratio Lower Upper
 76 100
 78 31.9 26.6 40.0

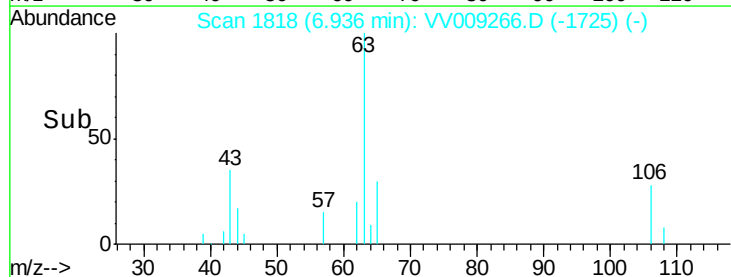
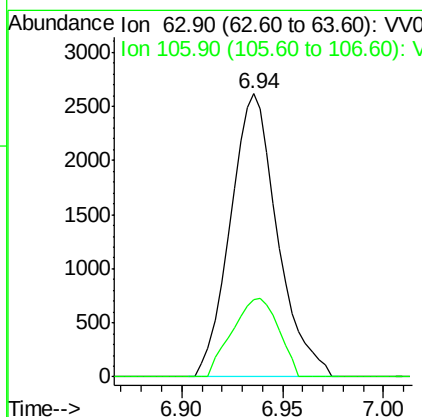
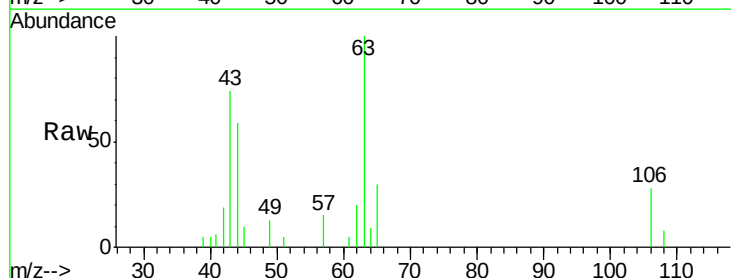
Manual Integrations
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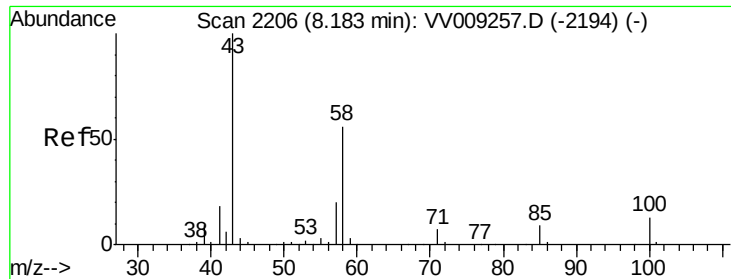
MMDadoda
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#58
 2-Chloroethyl Vinyl ether
 Concen: 160.361 ug/l
 RT: 6.94 min Scan# 1818
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Tgt Ion: 63 Resp: 4268
 Ion Ratio Lower Upper
 63 100
 106 27.5 21.0 31.6





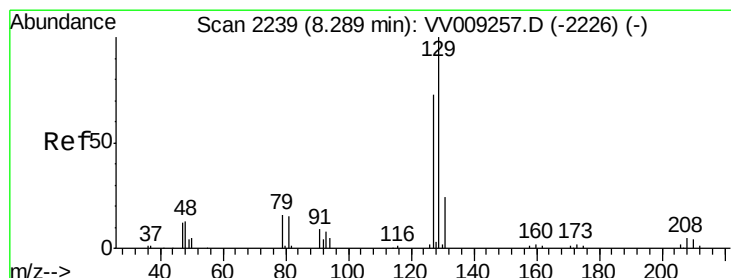
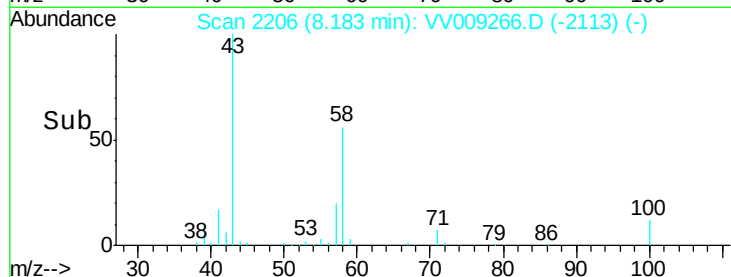
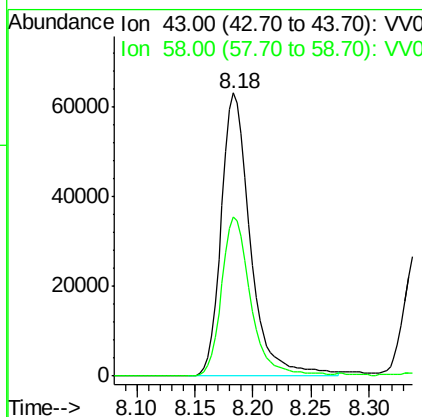
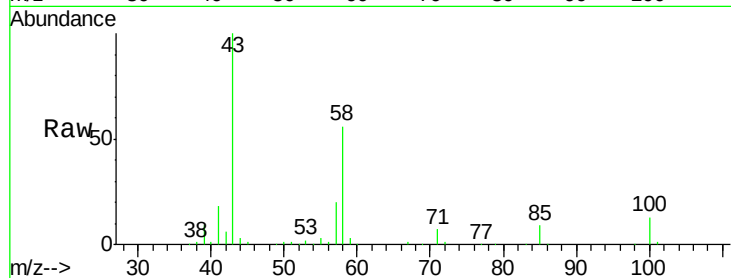
#59
2-Hexanone
Concen: 204.791 ug/l
RT: 8.18 min Scan# 2206
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 110293
Ion Ratio Lower Upper
43 100
58 55.5 27.9 83.7

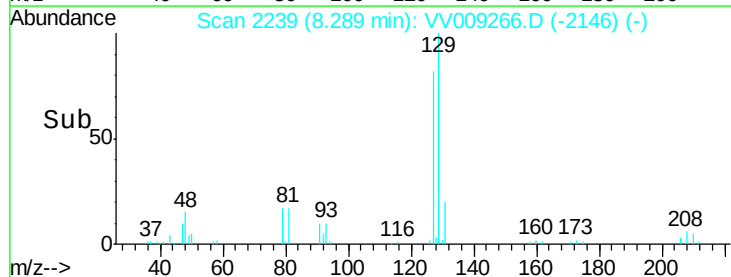
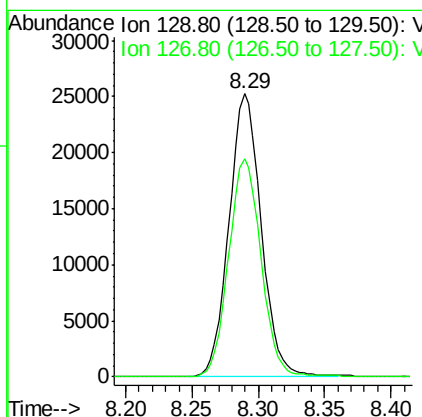
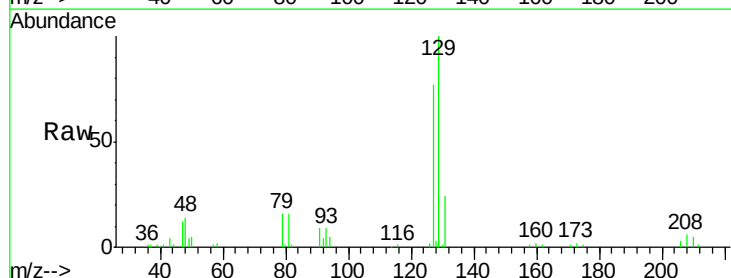
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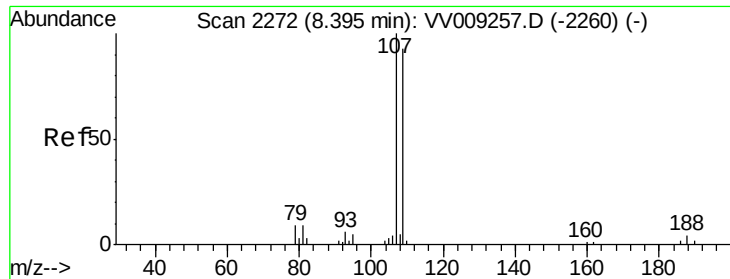
MMDadoda
1/25/2019 10:01:58 AM



#60
Dibromochloromethane
Concen: 44.930 ug/l
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion: 129 Resp: 42757
Ion Ratio Lower Upper
129 100
127 77.6 37.9 113.6





#61

1,2-Dibromoethane

Concen: 45.239 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion:107 Resp: 37841

Ion Ratio Lower Upper

107 100

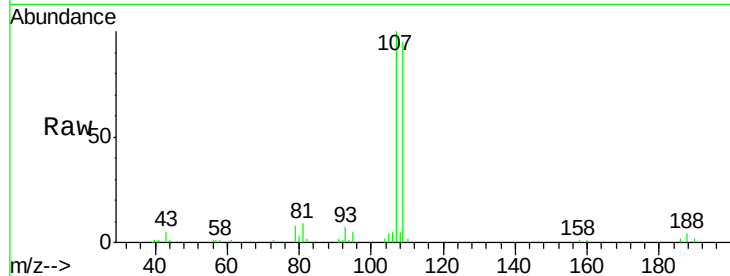
109 93.9 74.7 112.1

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

8.40

25000

20000

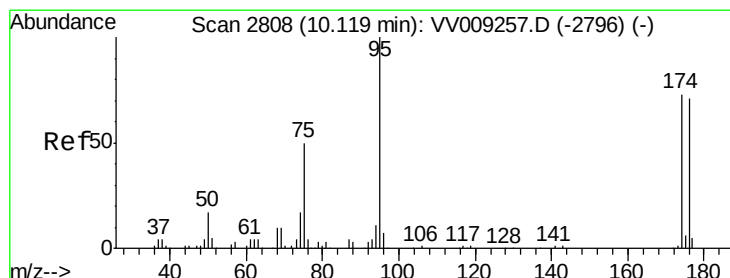
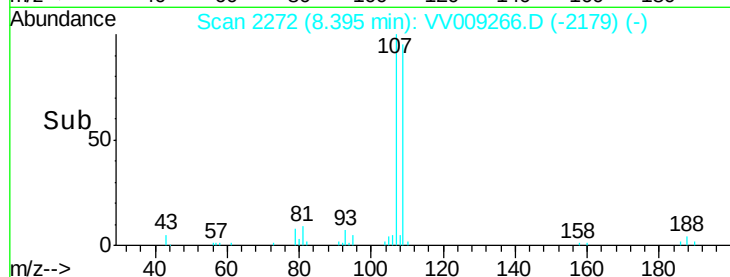
15000

10000

5000

0

Time--> 8.30 8.35 8.40 8.45 8.50



#62

4-Bromofluorobenzene

Concen: 47.660 ug/l

RT: 10.12 min Scan# 2808

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

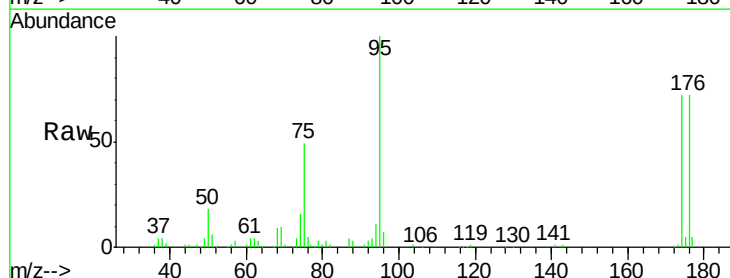
Tgt Ion: 95 Resp: 67790

Ion Ratio Lower Upper

95 100

174 74.9 0.0 150.0

176 74.1 0.0 144.0



Abundance Ion 94.90 (94.60 to 95.60): VV0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

10.12

60000

50000

40000

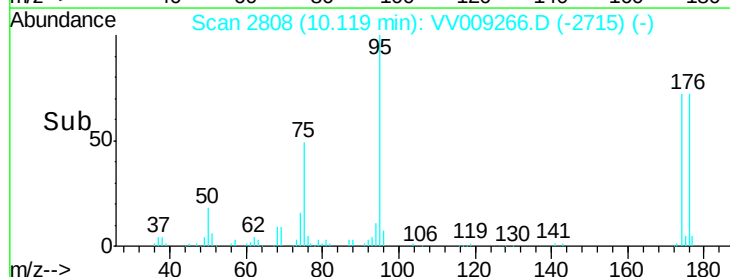
30000

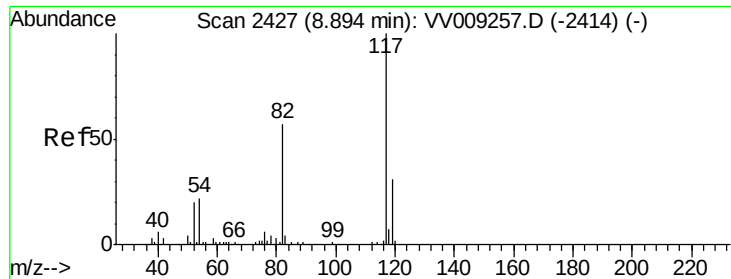
20000

10000

0

Time--> 10.05 10.10 10.15 10.20





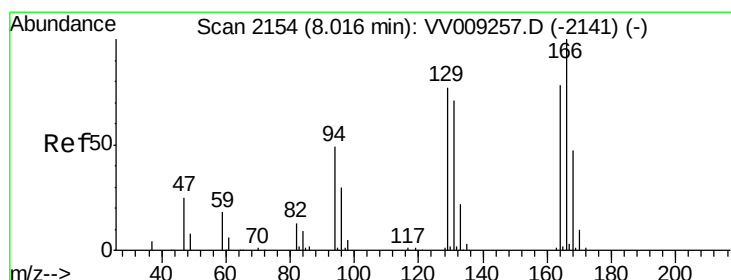
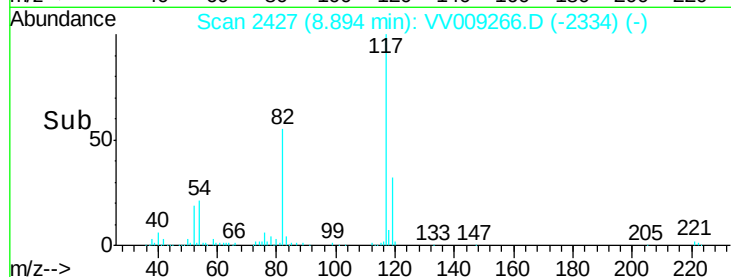
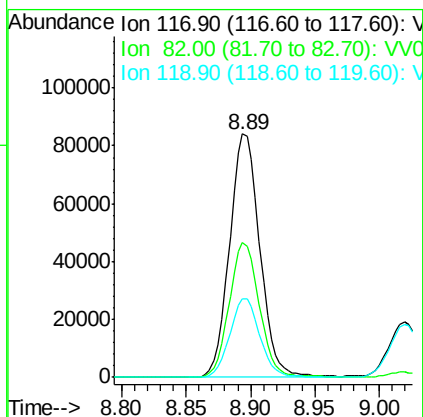
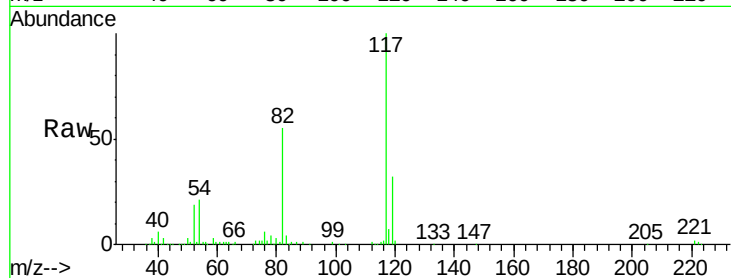
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.89 min Scan# 2427
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.3	45.8	68.6
119	32.1	24.8	37.2

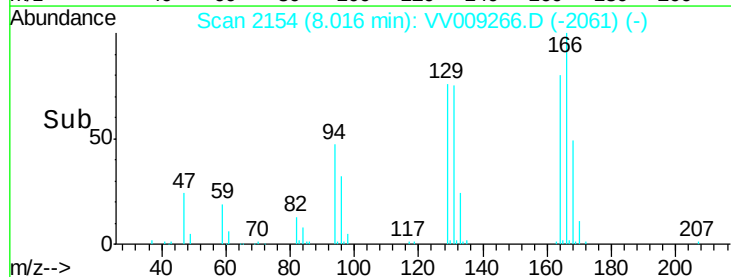
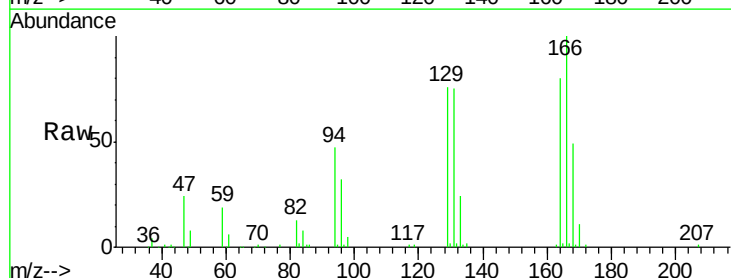
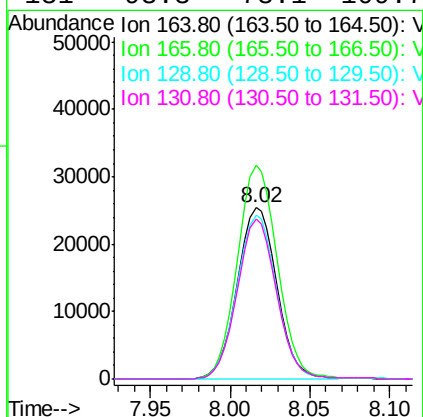
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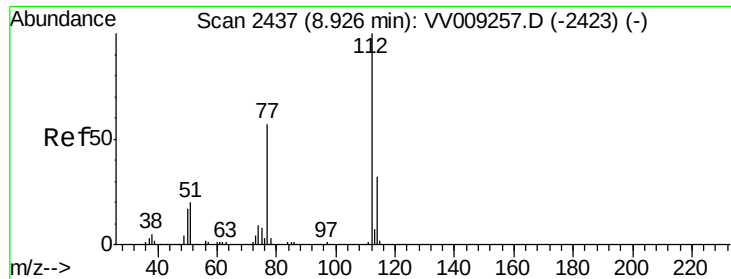
MMDadoda
1/25/2019 10:01:58 AM



#64
Tetrachloroethene
Concen: 45.305 ug/l
RT: 8.02 min Scan# 2154
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.6	102.3	153.5
129	95.3	78.6	117.8
131	93.3	73.1	109.7





#65

Chlorobenzene

Concen: 43.412 ug/l

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion:112 Resp: 134560

Ion Ratio Lower Upper

112 100

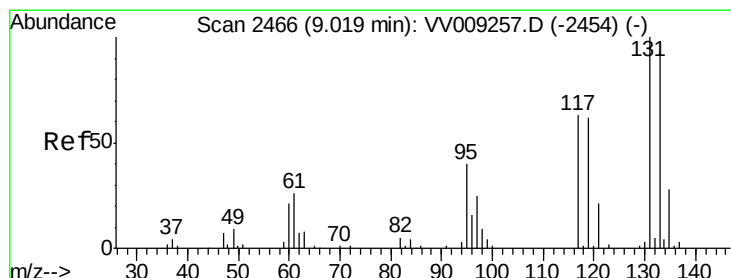
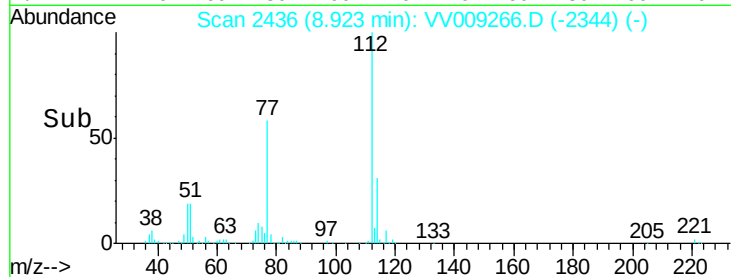
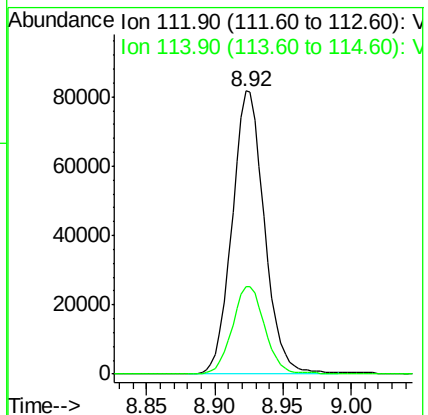
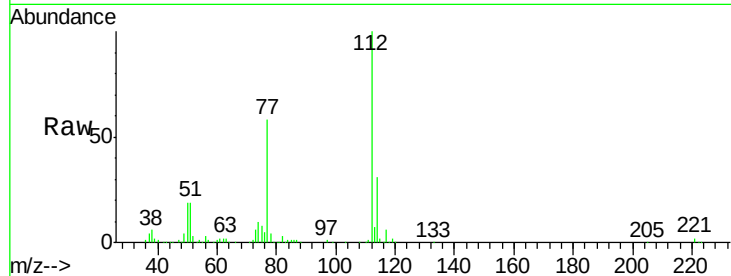
114 31.1 25.6 38.4

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#66

1,1,1,2-Tetrachloroethane

Concen: 44.696 ug/l

RT: 9.02 min Scan# 2466

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

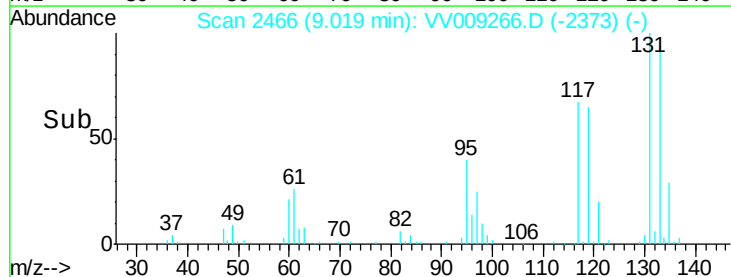
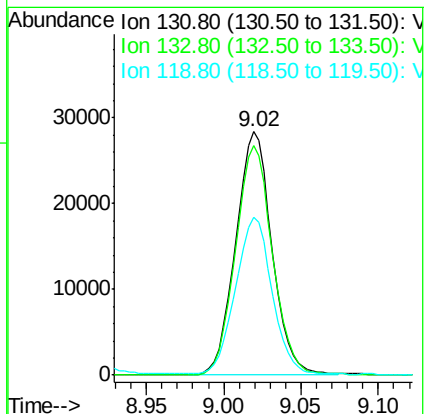
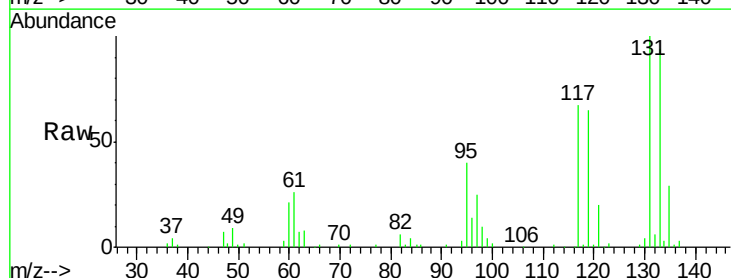
Tgt Ion:131 Resp: 46258

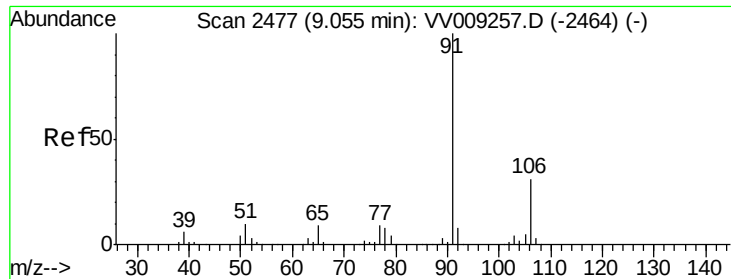
Ion Ratio Lower Upper

131 100

133 95.6 47.7 143.1

119 64.7 32.4 97.2





#67

Ethyl Benzene

Concen: 44.558 ug/l

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 234322

Ion Ratio Lower Upper

91 100

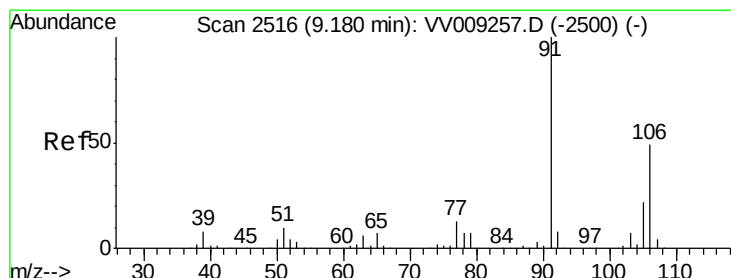
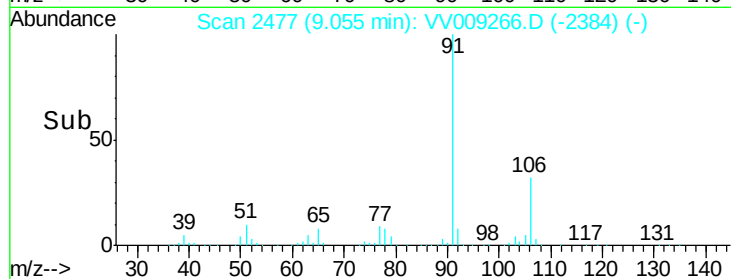
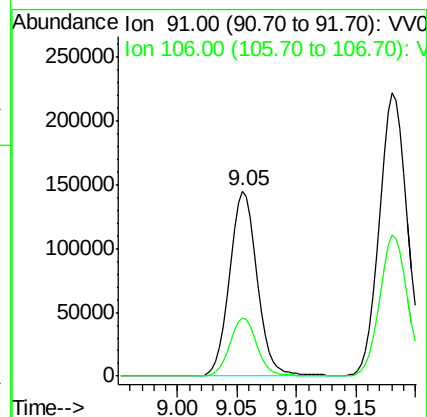
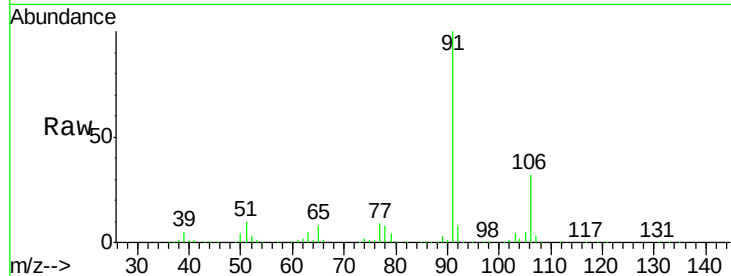
106 31.6 24.6 37.0

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#68

m/p-Xylenes

Concen: 89.737 ug/l

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV009266.D

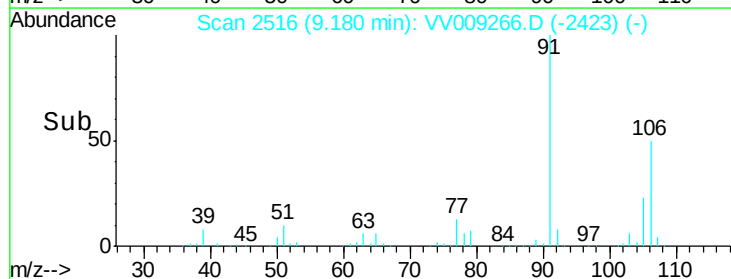
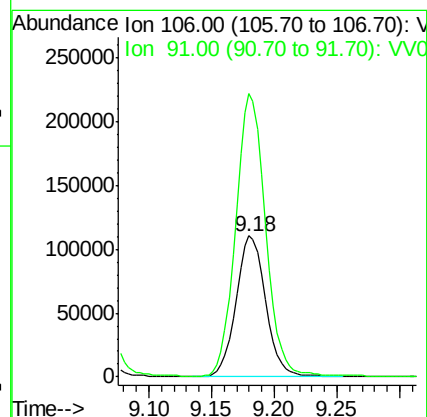
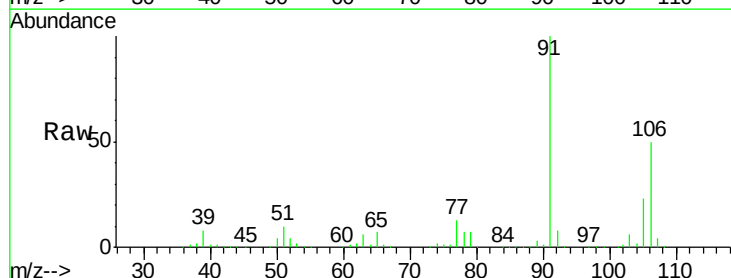
Acq: 24 Jan 2019 18:53

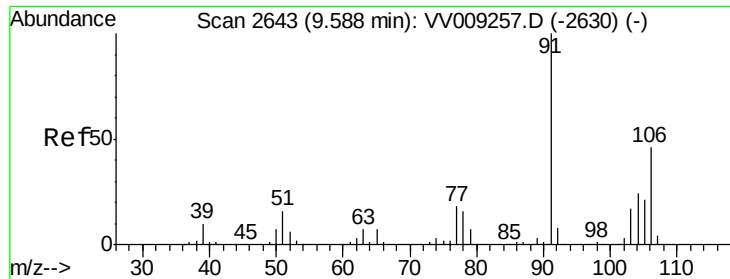
Tgt Ion: 106 Resp: 181022

Ion Ratio Lower Upper

106 100

91 202.7 161.9 242.9





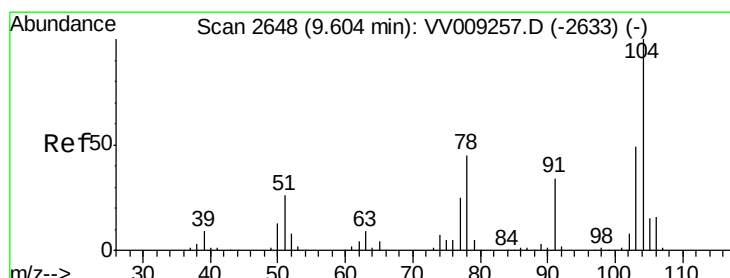
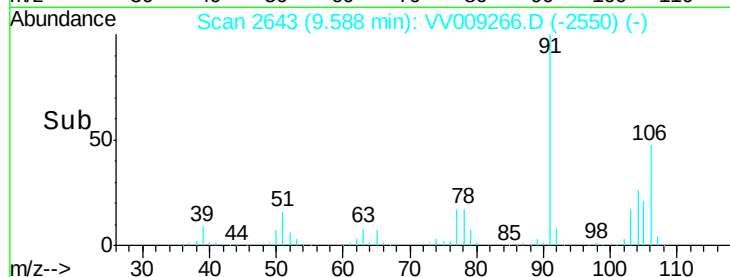
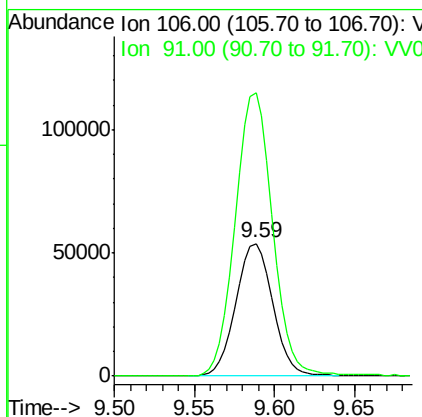
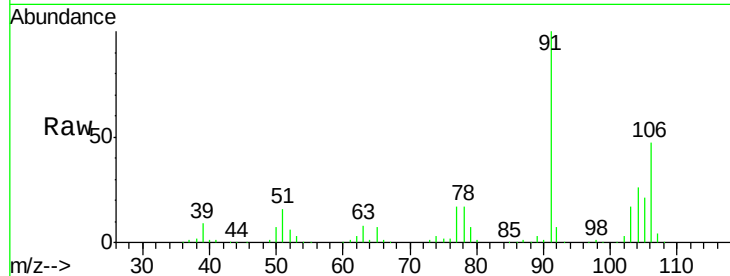
#69
o-Xylene
Concen: 45.066 ug/l
RT: 9.59 min Scan# 2643
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Instrument :
MSVOA_V
ClientSampleId :
VSTDCCC050EC

Tot Ion:106 Resp: 84954
Ion Ratio Lower Upper
106 100
91 217.0 108.3 324.9

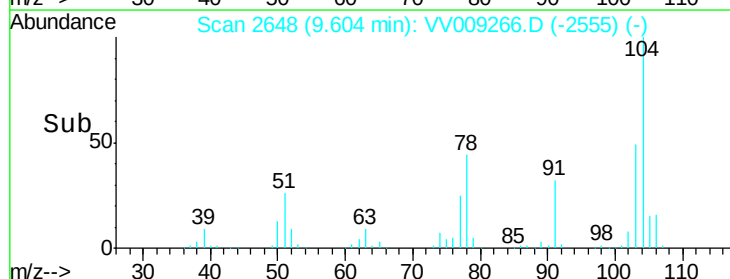
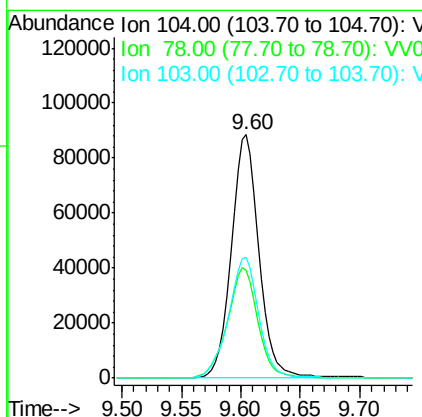
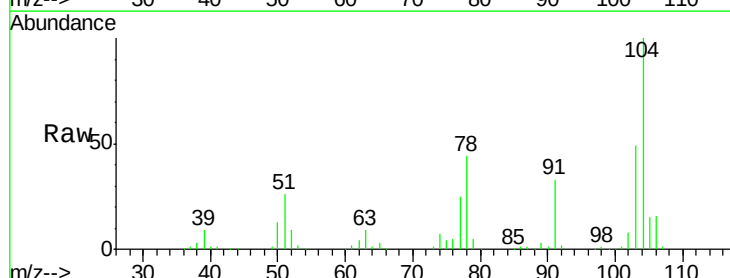
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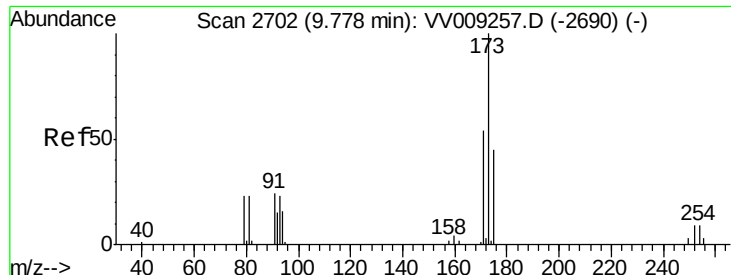
MMDadoda
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#70
Styrene
Concen: 46.419 ug/l
RT: 9.60 min Scan# 2648
Delta R.T. -0.00 min
Lab File: VV009266.D
Acq: 24 Jan 2019 18:53

Tgt Ion:104 Resp: 142500
Ion Ratio Lower Upper
104 100
78 49.9 40.6 60.8
103 54.6 43.3 64.9





#71

Bromoform

Concen: 44.000 ug/l

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

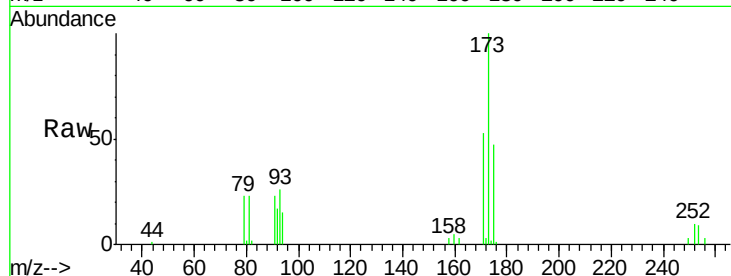
ClientSampleId :

VSTDCCC050EC

Tot Ion:	173	Resp:	24551
Ion	Ratio	Lower	Upper
173	100		
175	48.5	23.9	71.7
254	0.0	0.0	0.0

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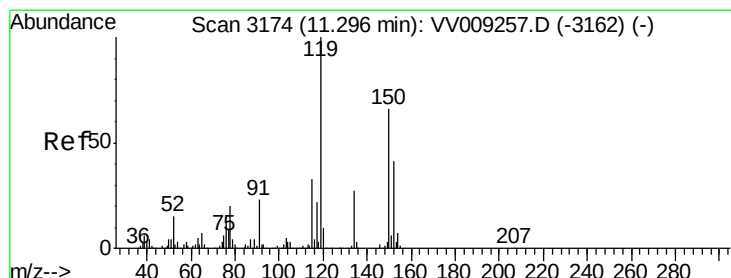
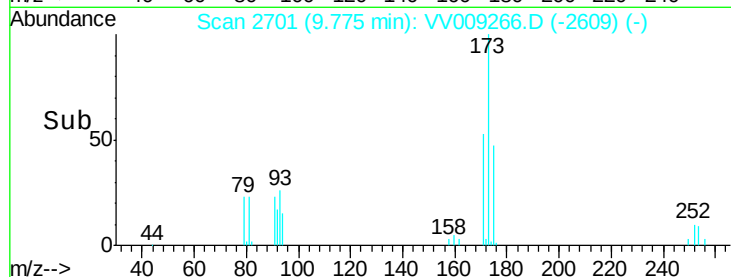
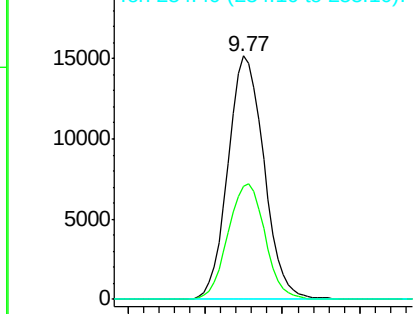


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

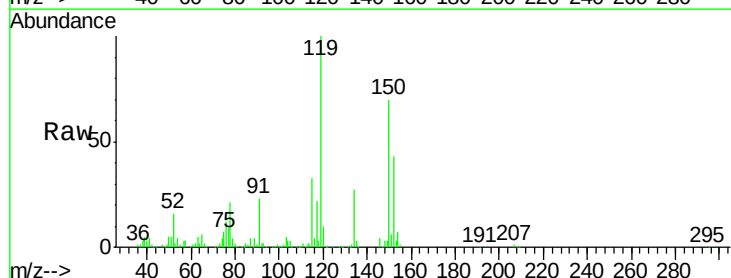
RT: 11.30 min Scan# 3174

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tgt Ion:	152	Resp:	70754
Ion	Ratio	Lower	Upper
152	100		
115	82.8	43.0	128.8
150	174.6	0.0	352.0

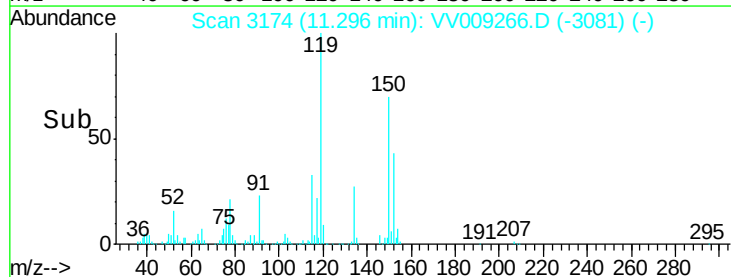
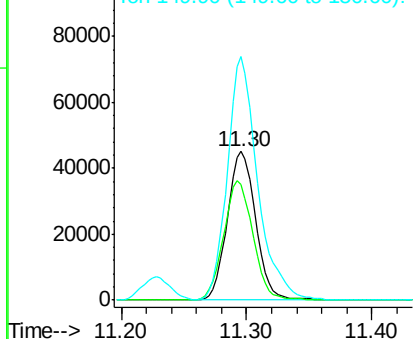


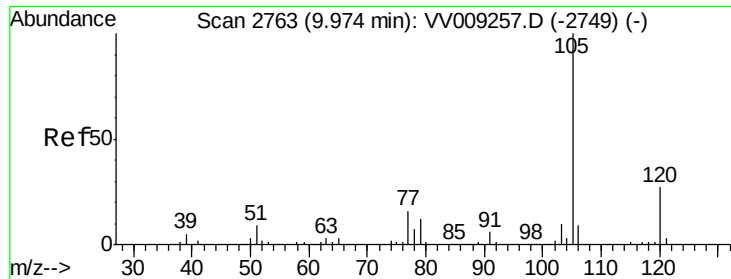
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 43.963 ug/l

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tot Ion: 105 Resp: 230993

Ion Ratio Lower Upper

105 100

120 27.0 13.1 39.3

Instrument :

MSVOA_V

ClientSampleId :

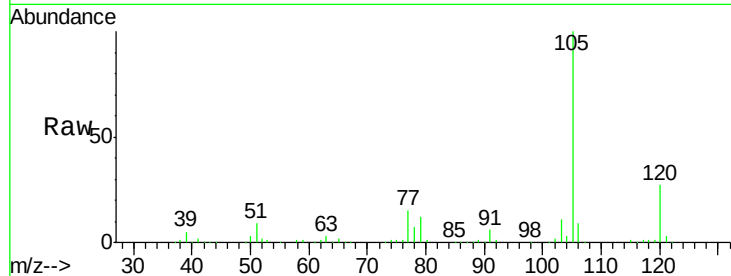
VSTDCCC050EC

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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

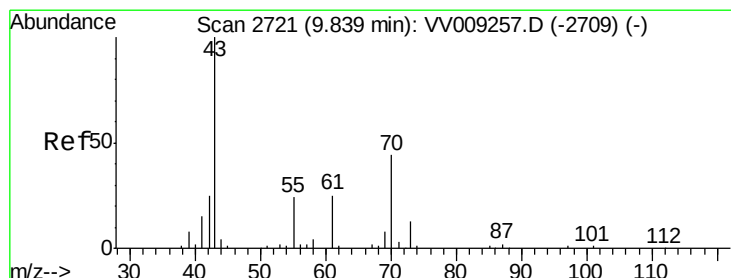
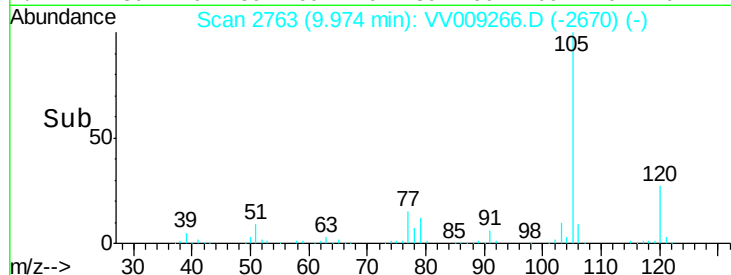
50000

0

9.97

9.90 10.00 10.10

Time-->



#74

N-ethyl acetate

Concen: 43.251 ug/l

RT: 9.84 min Scan# 2721

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tgt Ion: 43 Resp: 53176

Ion Ratio Lower Upper

43 100

70 45.8 35.4 53.0

55 24.7 20.4 30.6

61 24.9 19.3 28.9

Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 70.00 (69.70 to 70.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

50000

40000

30000

20000

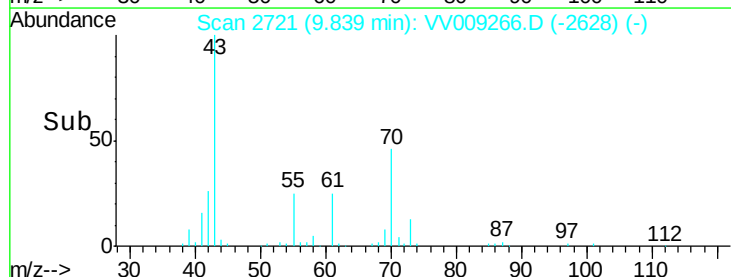
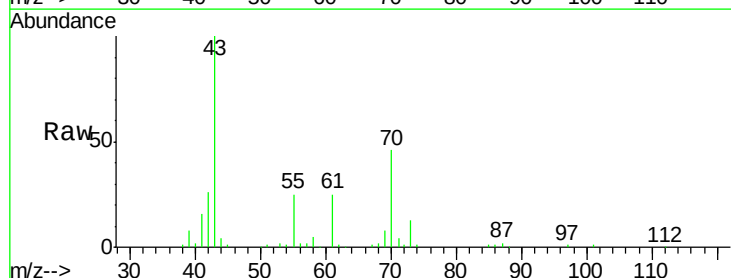
10000

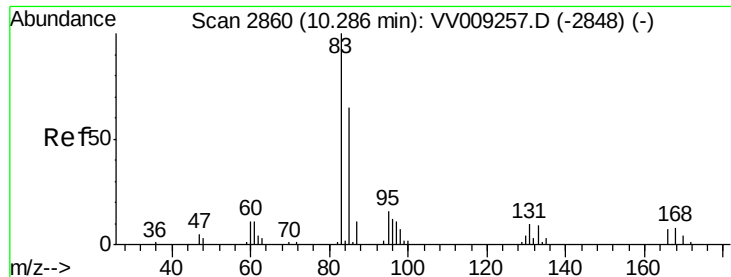
0

9.84

9.80 9.90 10.00

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 42.999 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

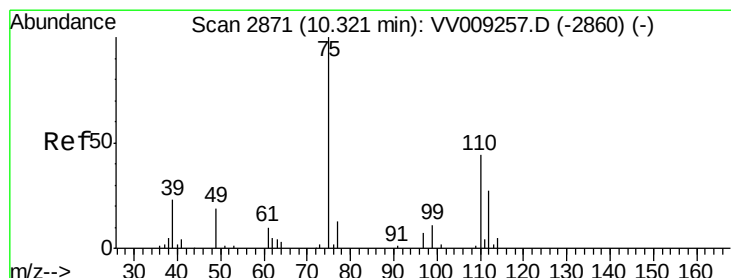
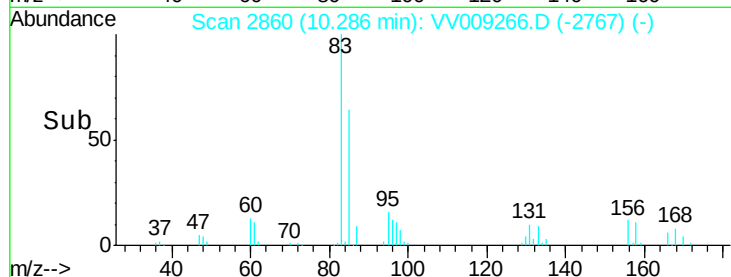
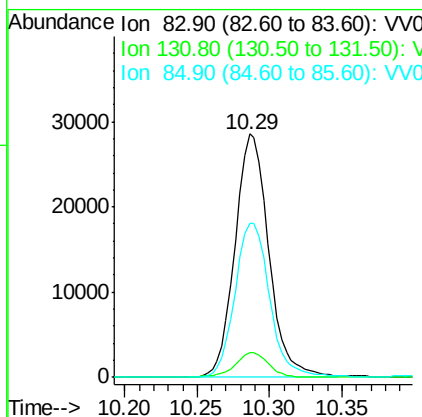
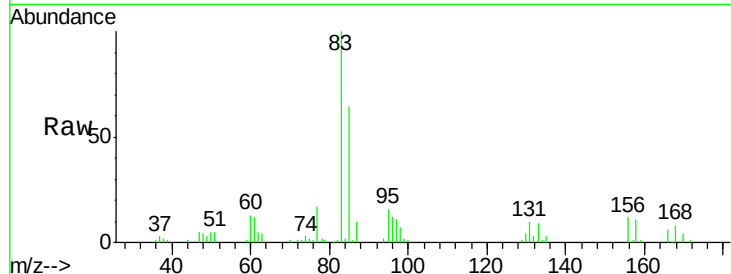
ClientSampleId :

VSTDCCC050EC

Tot Ion	83	Resp	46459
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	15.0
85	65.0	32.4	97.2

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 42.654 ug/l m

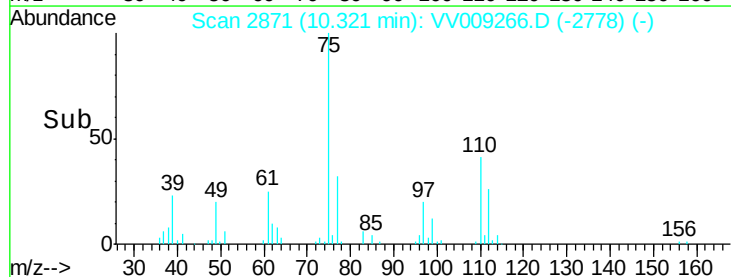
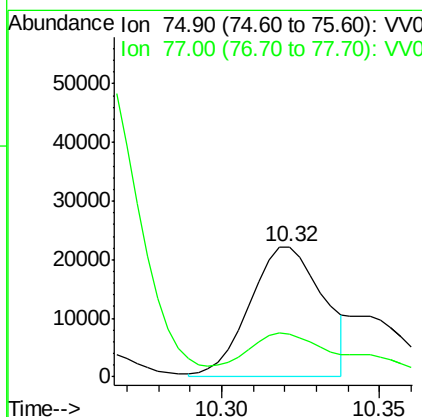
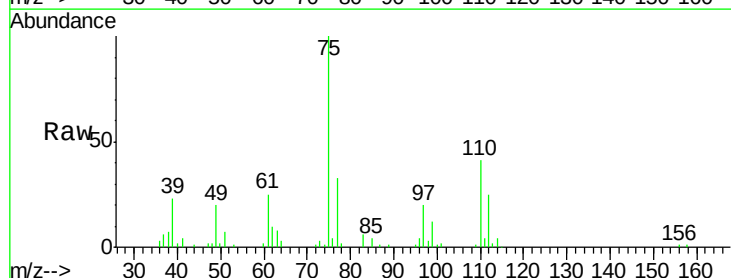
RT: 10.32 min Scan# 2871

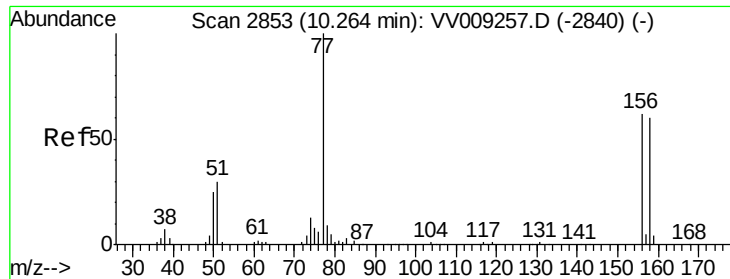
Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tgt Ion	75	Resp	35624
Ion	Ratio	Lower	Upper
75	100		
77	48.3	6.2	18.4





#77

Bromobenzene

Concen: 44.914 ug/l

RT: 10.26 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion:156 Resp: 55064

Ion Ratio Lower Upper

156 100

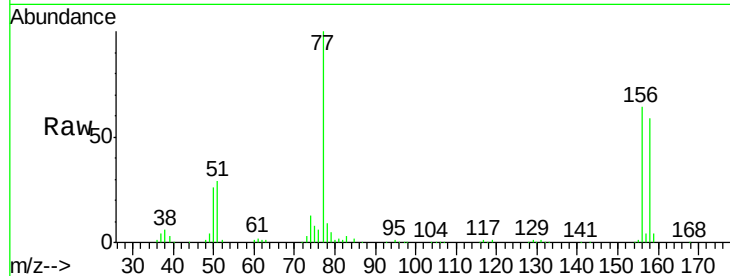
77 162.6 81.7 244.9

158 95.8 48.4 145.0

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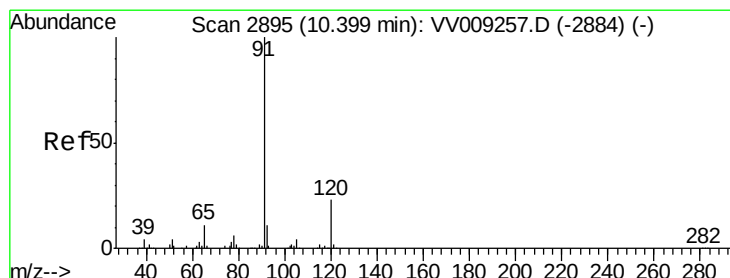
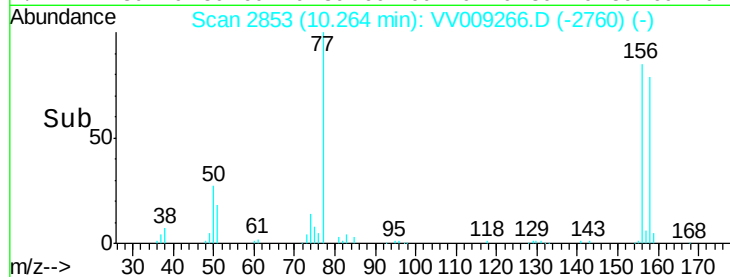
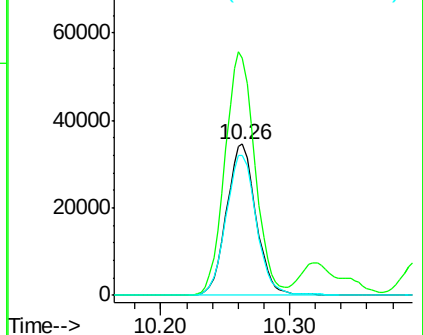
1/25/2019 10:01:58 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 44.002 ug/l

RT: 10.40 min Scan# 2895

Delta R.T. -0.00 min

Lab File: VV009266.D

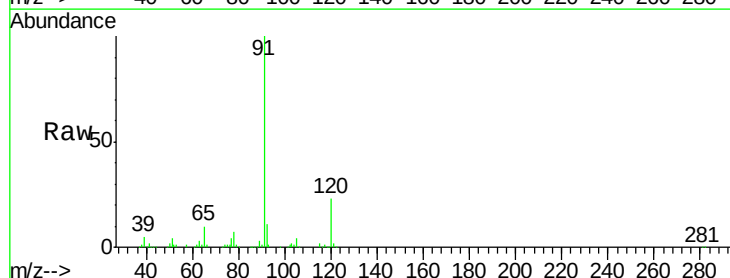
Acq: 24 Jan 2019 18:53

Tgt Ion: 91 Resp: 273539

Ion Ratio Lower Upper

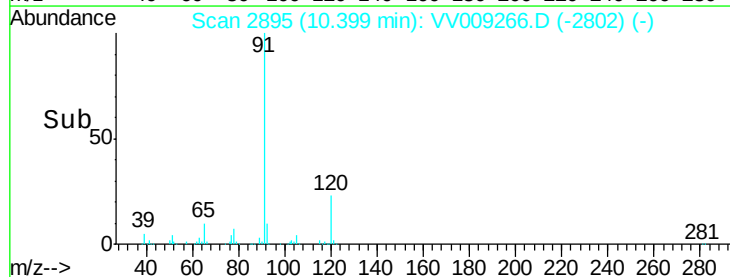
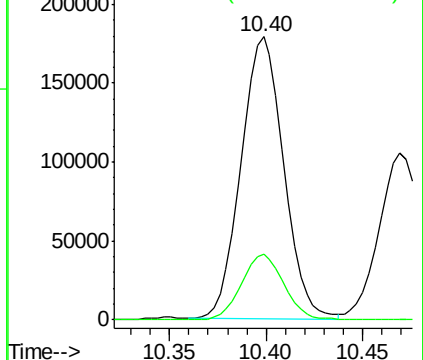
91 100

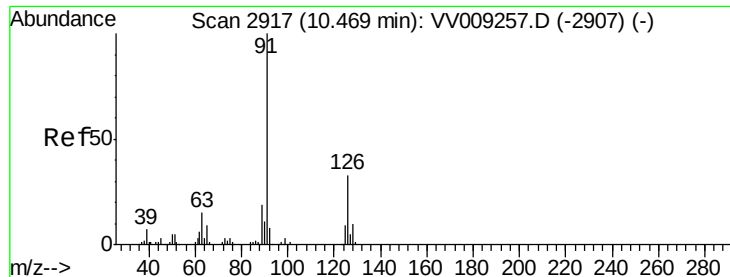
120 23.5 11.6 34.8



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 44.133 ug/l

RT: 10.47 min Scan# 2917

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 165357

Ion Ratio Lower Upper

91 100

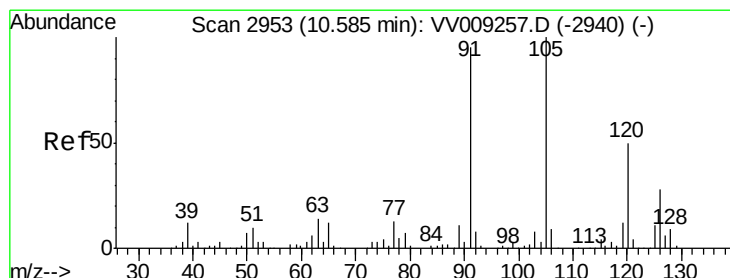
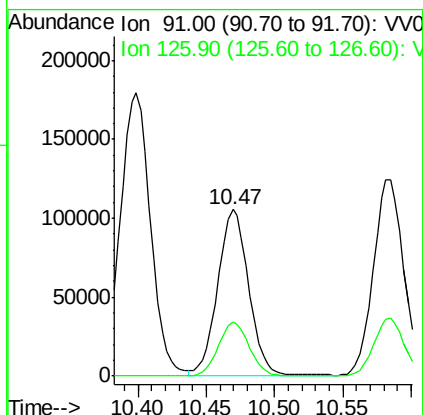
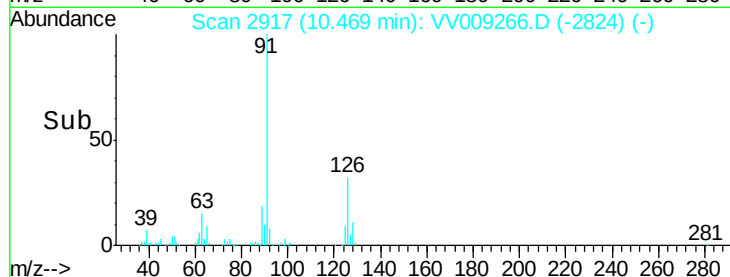
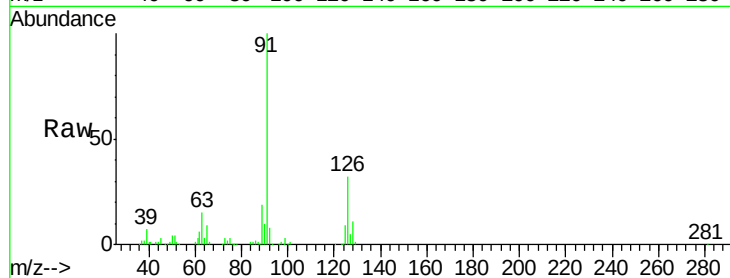
126 33.1 16.4 49.4

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 45.505 ug/l

RT: 10.58 min Scan# 2952

Delta R.T. -0.00 min

Lab File: VV009266.D

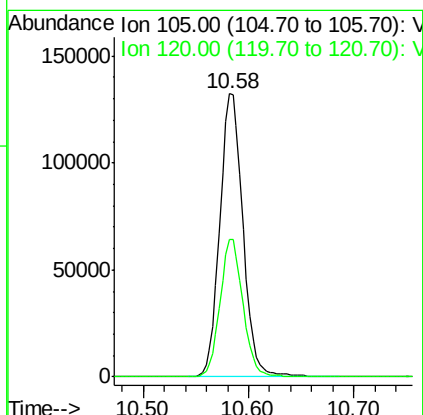
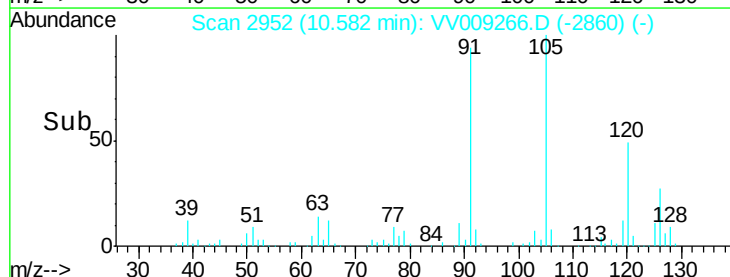
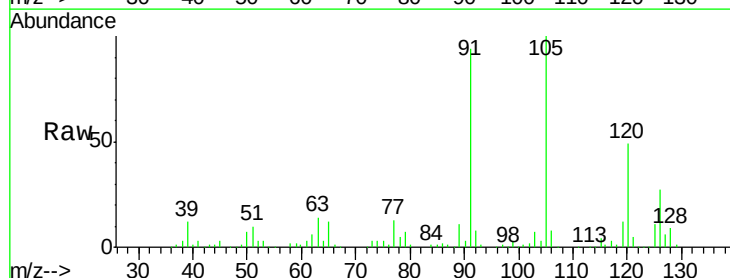
Acq: 24 Jan 2019 18:53

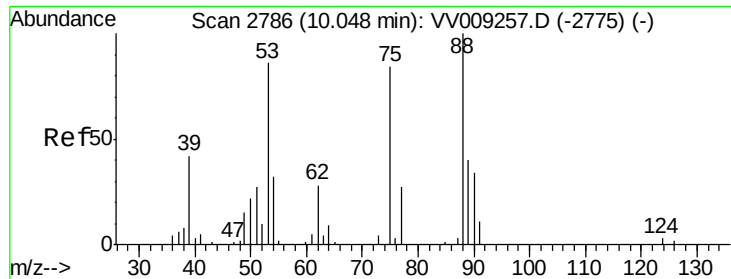
Tgt Ion: 105 Resp: 201119

Ion Ratio Lower Upper

105 100

120 48.2 24.8 74.3





#81

trans-1,4-Dichloro-2-butene

Concen: 44.986 ug/l

RT: 10.05 min Scan# 2786

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

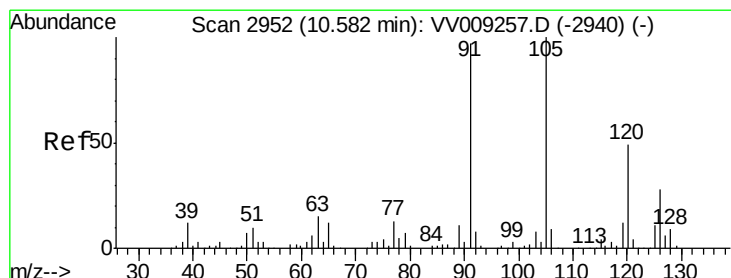
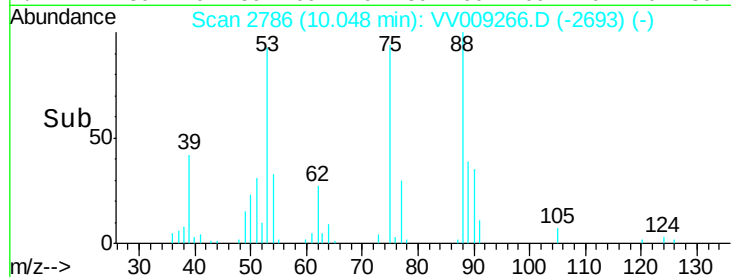
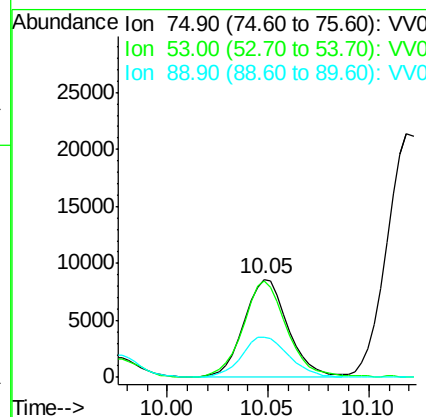
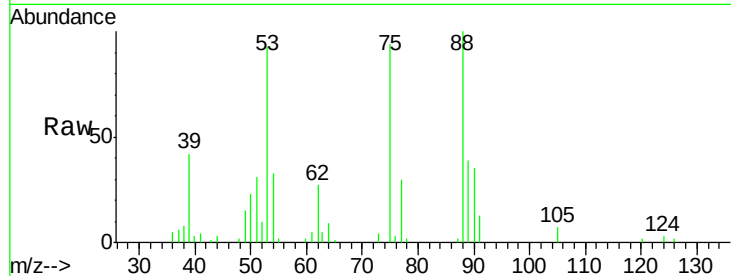
ClientSampleId :

VSTDCCC050EC

Tot Ion:	75	Resp:	13227
Ion	Ratio	Lower	Upper
75	100		
53	97.2	80.2	120.2
89	43.7	36.8	55.2

Manual Integrations
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#82

4-Chlorotoluene

Concen: 44.300 ug/l

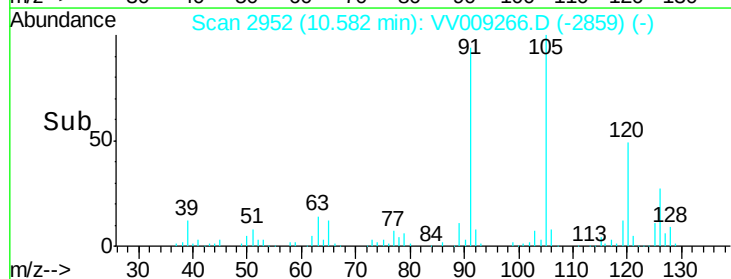
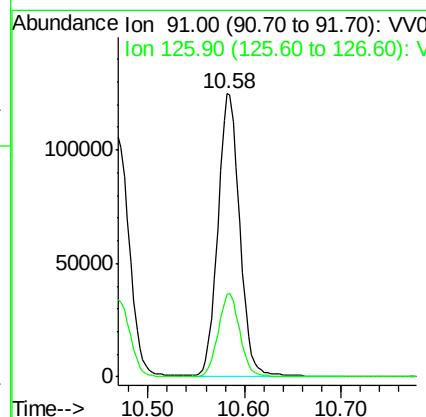
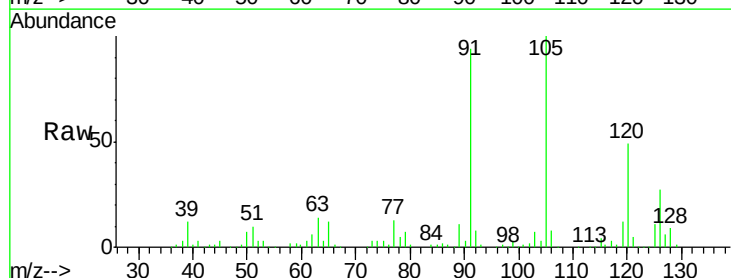
RT: 10.58 min Scan# 2952

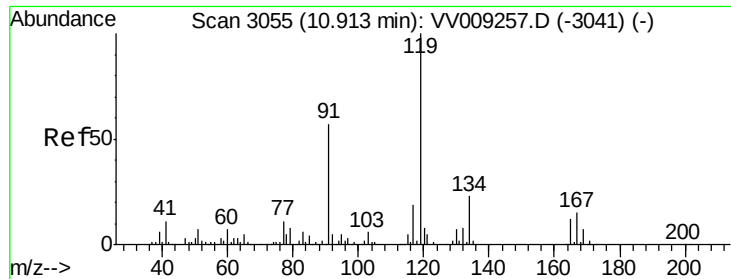
Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tgt Ion:	91	Resp:	196769
Ion	Ratio	Lower	Upper
91	100		
126	29.3	14.6	44.0





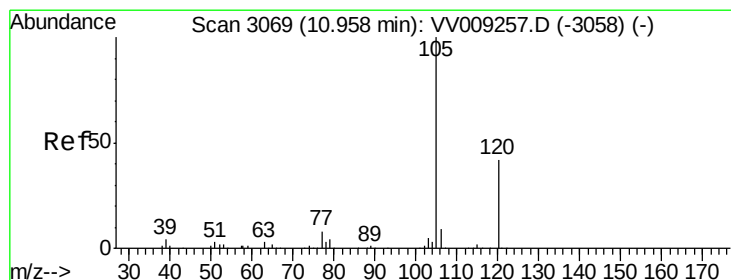
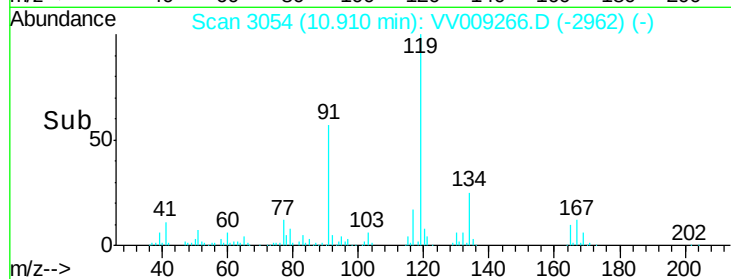
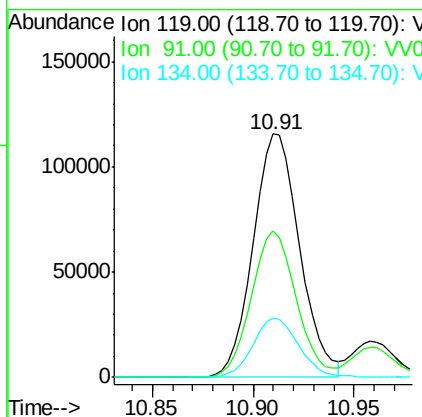
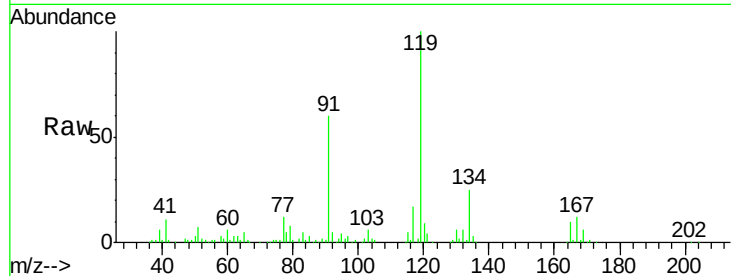
#83
 tert-Butylbenzene
 Concen: 43.662 ug/l
 RT: 10.91 min Scan# 3054
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	186309		
91	57.8		28.6	85.8
134	24.2		11.9	35.5

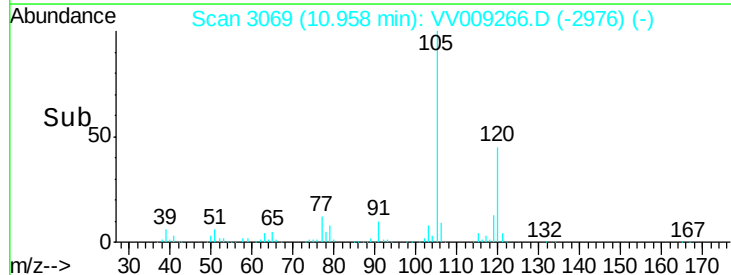
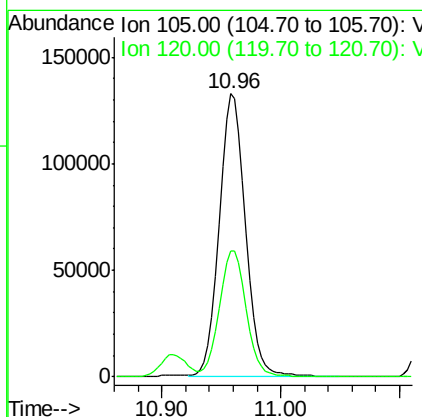
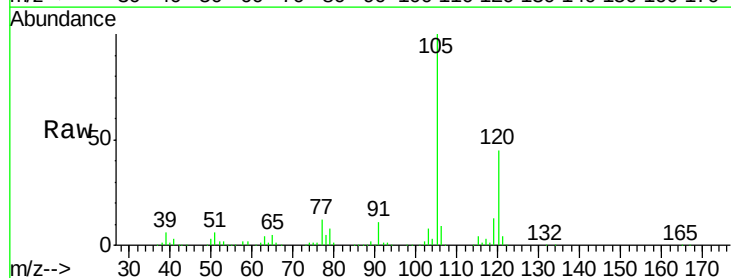
Manual Integrations
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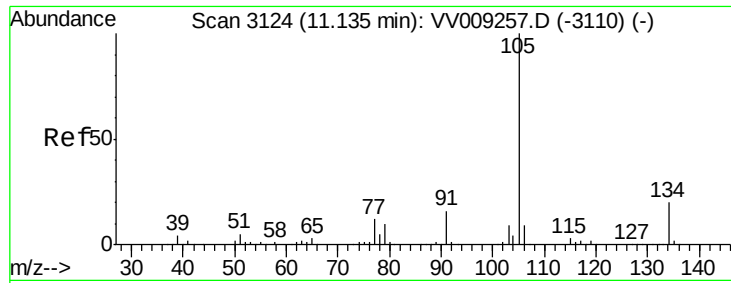
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#84
 1,2,4-Trimethylbenzene
 Concen: 44.897 ug/l
 RT: 10.96 min Scan# 3069
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	203690		
120	45.6		22.7	68.1





#85

sec-Butylbenzene

Concen: 43.169 ug/l

RT: 11.13 min Scan# 3124

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 240056

Ion Ratio Lower Upper

105 100

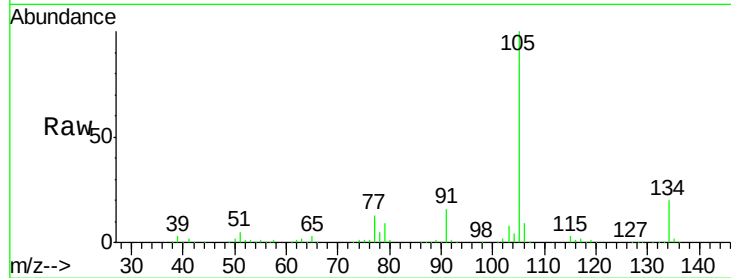
134 20.5 10.2 30.6

Manual Integrations

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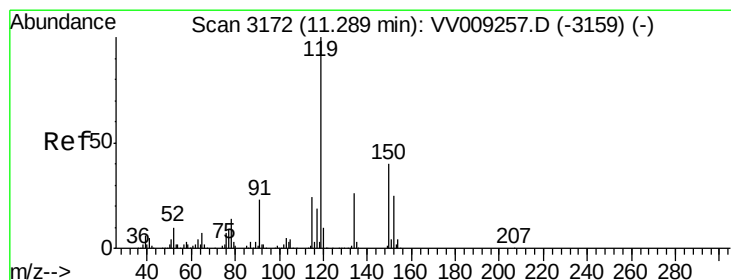
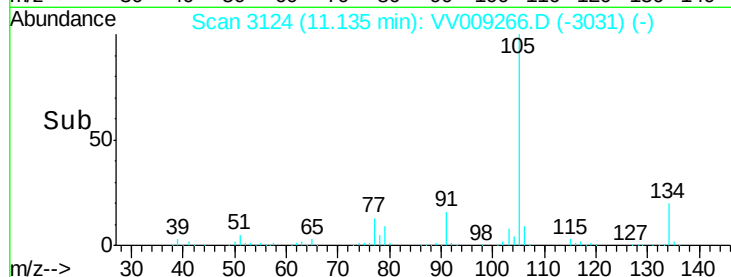
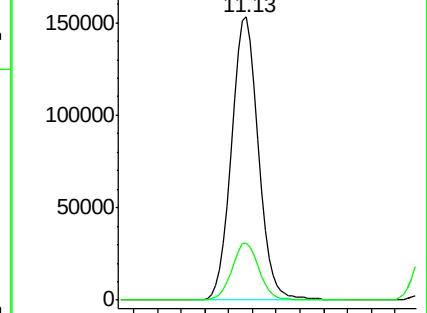
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 43.927 ug/l

RT: 11.29 min Scan# 3172

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

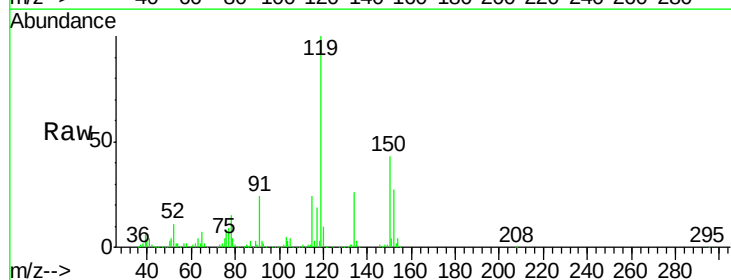
Tgt Ion:119 Resp: 215565

Ion Ratio Lower Upper

119 100

134 26.4 13.2 39.5

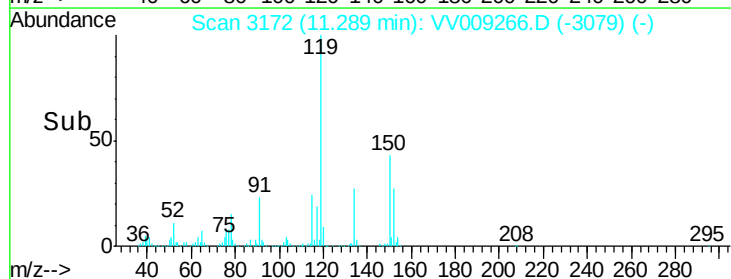
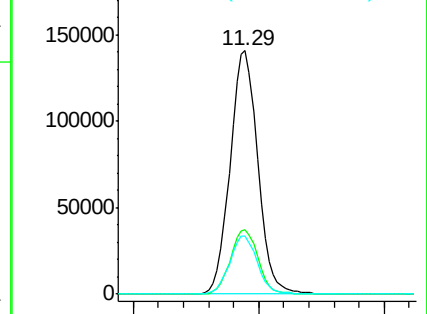
91 23.9 11.9 35.7

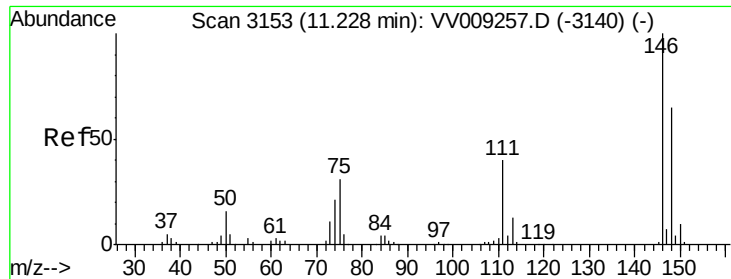


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VV0





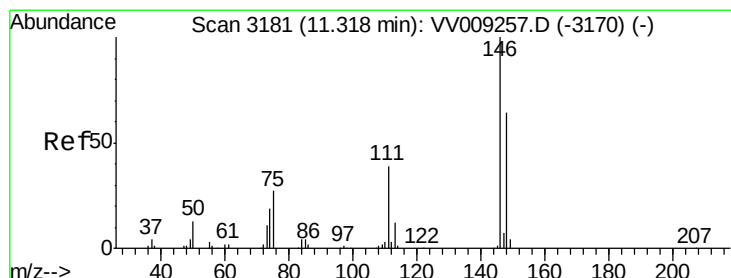
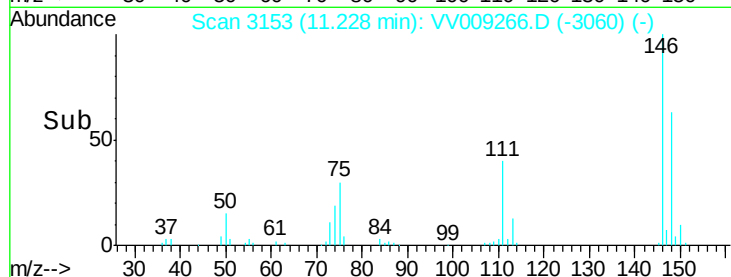
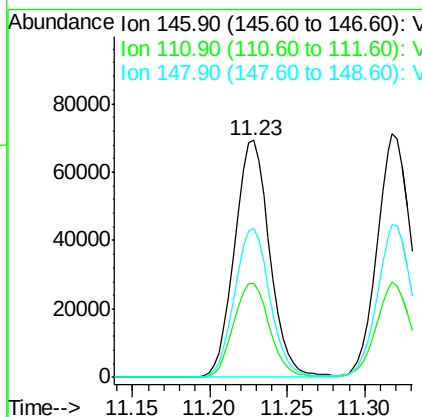
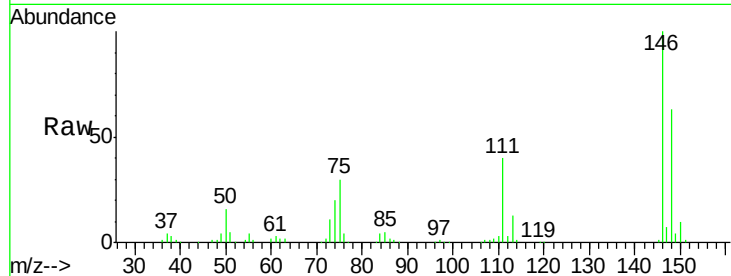
#87
 1,3-Dichlorobenzene
 Concen: 44.149 ug/l
 RT: 11.23 min Scan# 3153
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.2	60.5
148	63.4	31.8	95.3

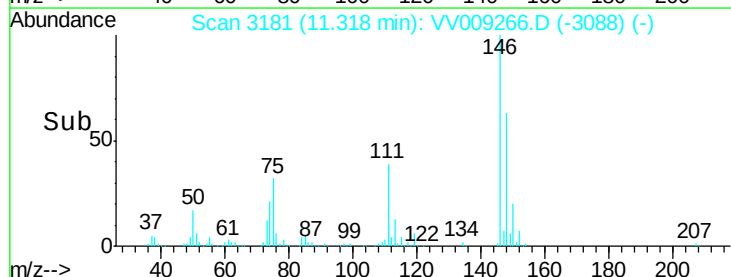
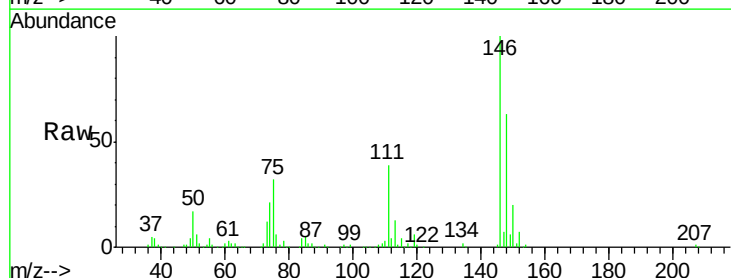
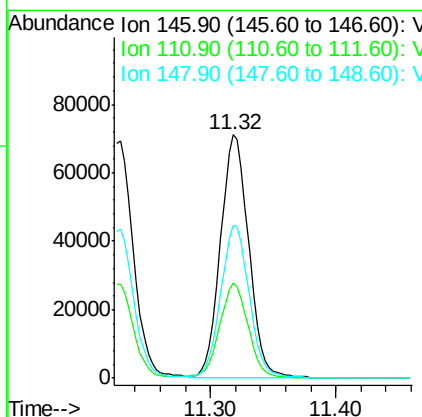
Manual Integrations
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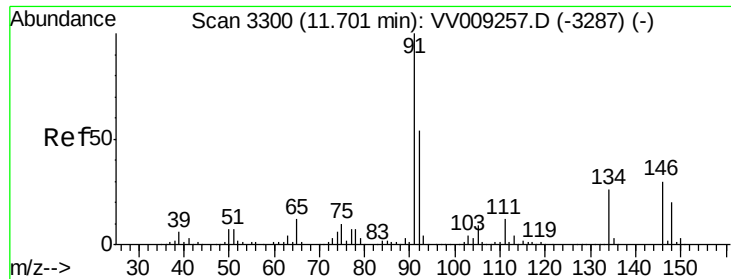
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#88
 1,4-Dichlorobenzene
 Concen: 43.949 ug/l
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.5	20.3	61.0
148	63.7	31.6	94.8





#89

n-Butylbenzene

Concen: 42.745 ug/l

RT: 11.70 min Scan# 3300

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

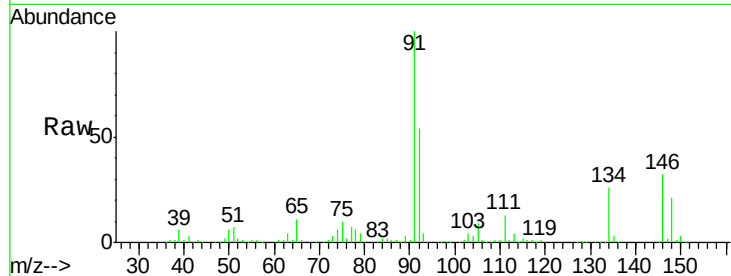
ClientSampleId :

VSTDCCC050EC

Tot Ion:	91	Resp:	203130
Ion Ratio		Lower	Upper
91	100		
92	54.1	27.1	81.2
134	26.0	13.1	39.3

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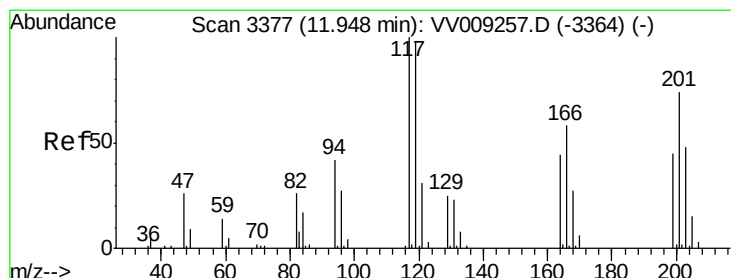
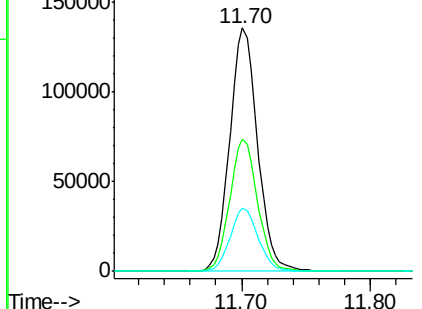
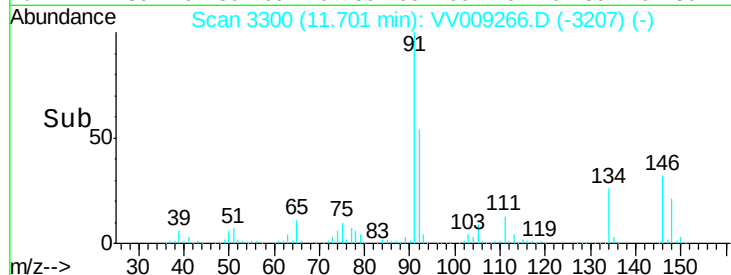


Abundance Ion 91.00 (90.70 to 91.70): VV009257.D (-3287) (-)

Ion 92.00 (91.70 to 92.70): VV009257.D (-3287) (-)

Ion 134.00 (133.70 to 134.70): VV009257.D (-3287) (-)

Time-->



#90

Hexachloroethane

Concen: 43.872 ug/l

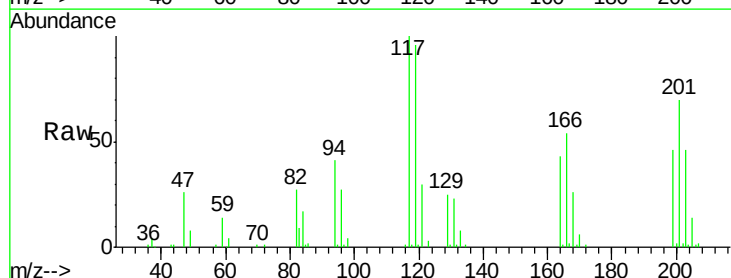
RT: 11.95 min Scan# 3377

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

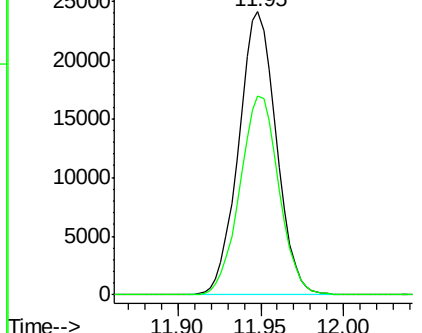
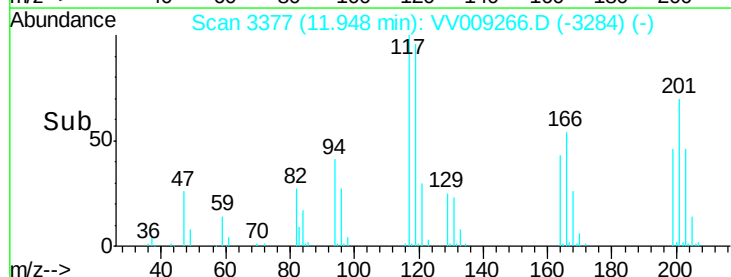
Tgt Ion:	117	Resp:	38081
Ion Ratio		Lower	Upper
117	100		
201	72.8	36.4	109.3

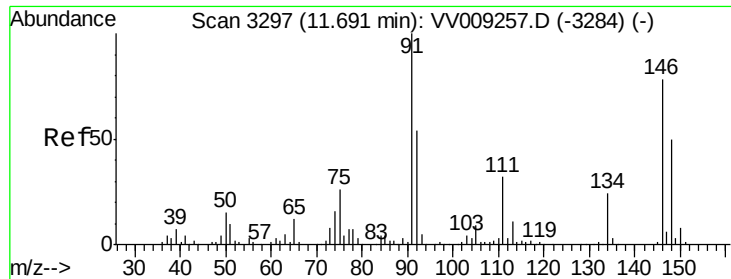


Abundance Ion 116.80 (116.50 to 117.50): VV009257.D (-3364) (-)

Ion 200.70 (200.40 to 201.40): VV009257.D (-3364) (-)

Time-->





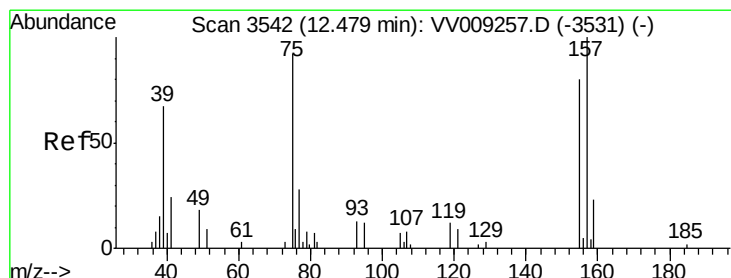
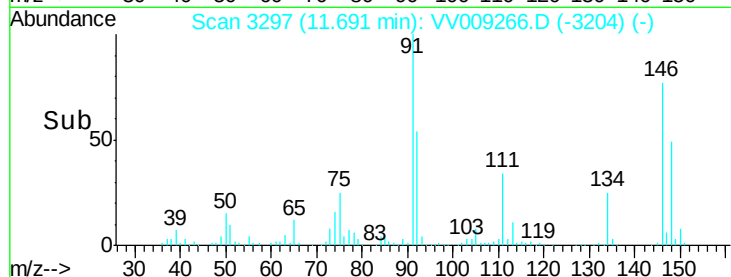
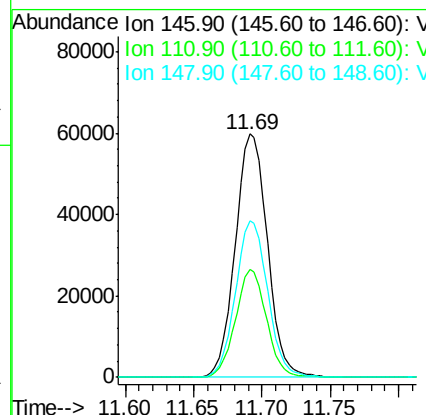
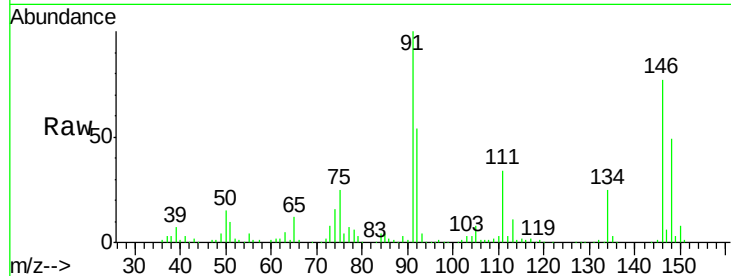
#91
 1,2-Dichlorobenzene
 Concen: 43.995 ug/l
 RT: 11.69 min Scan# 3297
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.7	20.9	62.7
148	64.4	32.1	96.3

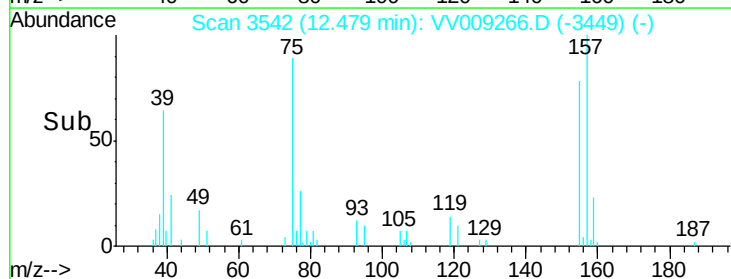
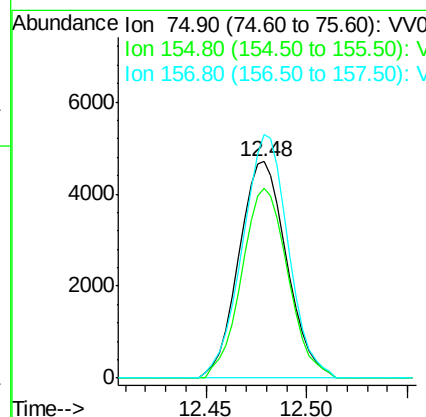
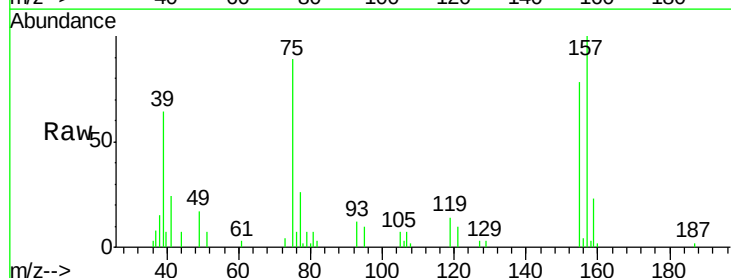
Manual Integrations
 APPROVED

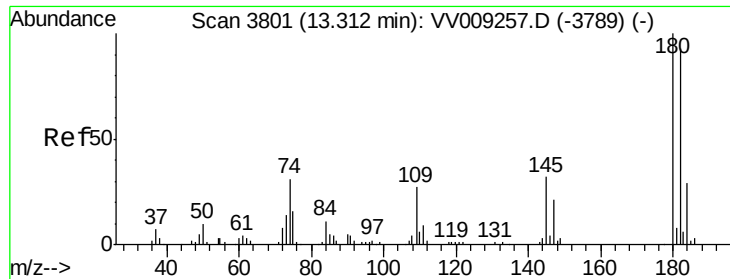
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 43.329 ug/l
 RT: 12.48 min Scan# 3542
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.7	41.1	123.4
157	108.2	53.2	159.6





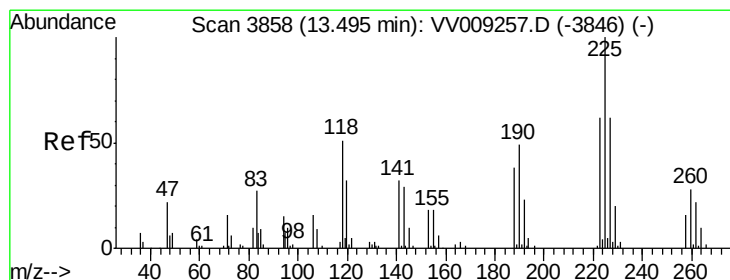
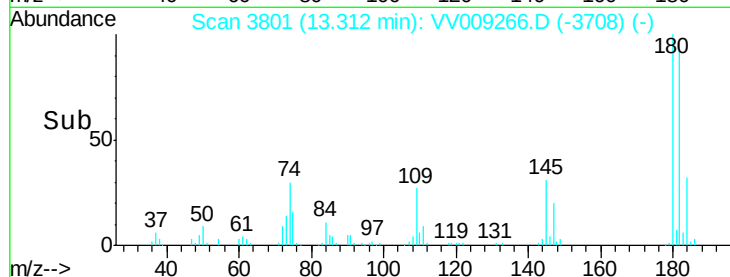
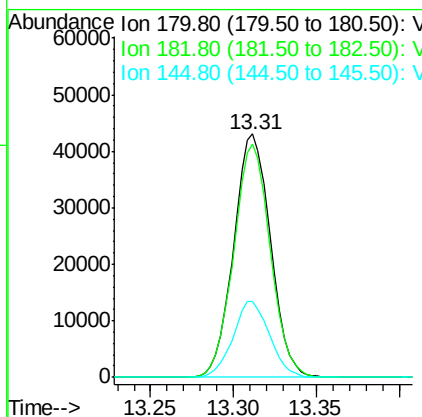
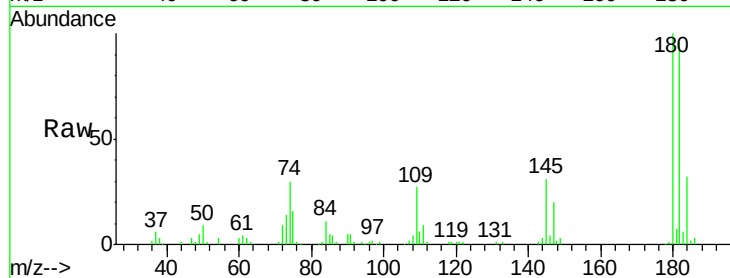
#93
 1,2,4-Trichlorobenzene
 Concen: 42.556 ug/l
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.1	141.4
145	31.0	15.8	47.4

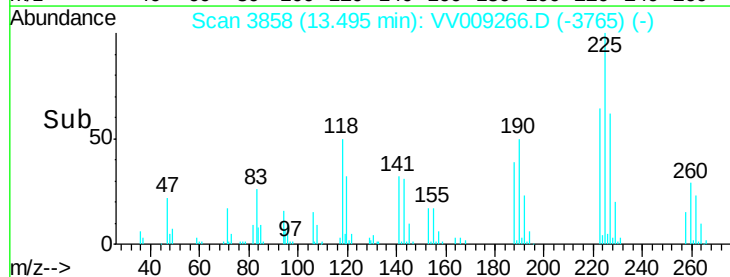
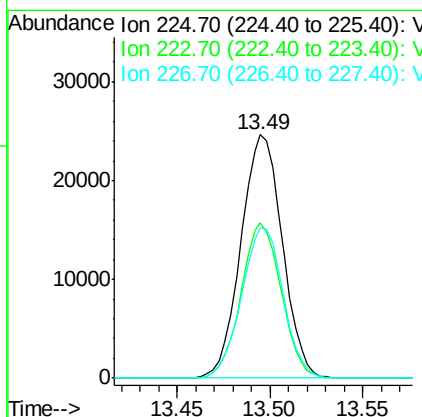
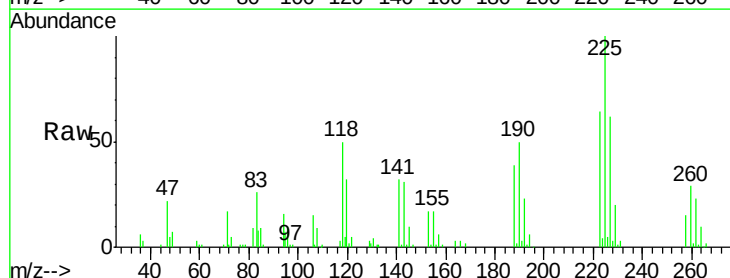
Manual Integrations
 APPROVED

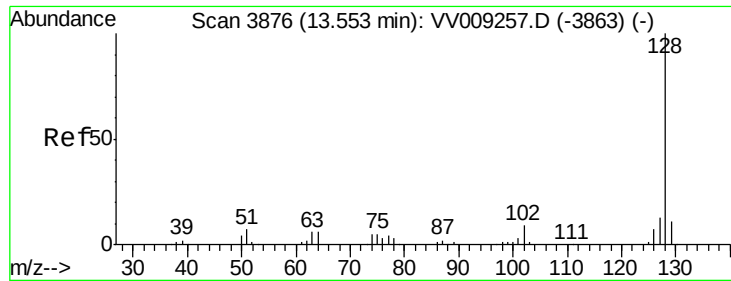
MMDadoda
 1/25/2019 10:01:58 AM



#94
 Hexachlorobutadiene
 Concen: 42.938 ug/l
 RT: 13.49 min Scan# 3858
 Delta R.T. -0.00 min
 Lab File: VV009266.D
 Acq: 24 Jan 2019 18:53

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.7	31.3	93.9
227	61.9	31.6	94.7





#95

Naphthalene

Concen: 42.223 ug/l

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Instrument :

MSVOA_V

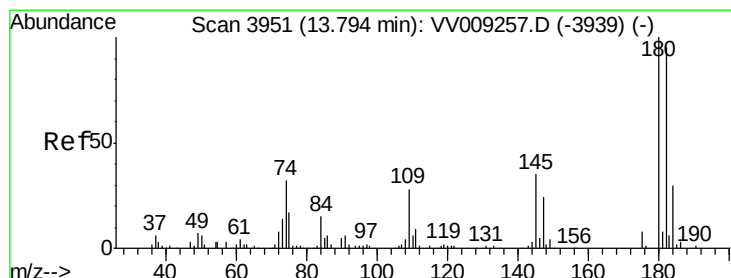
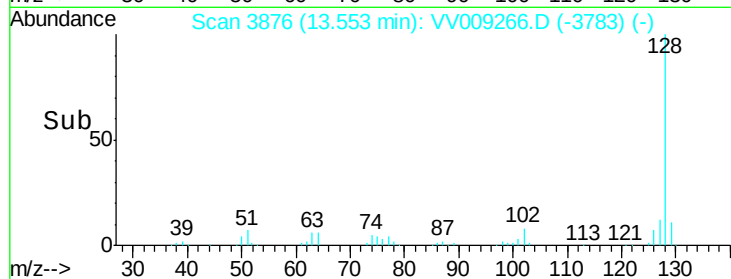
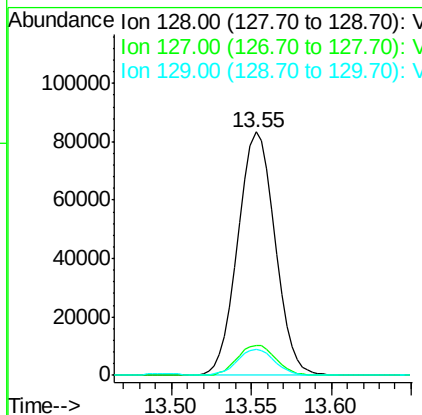
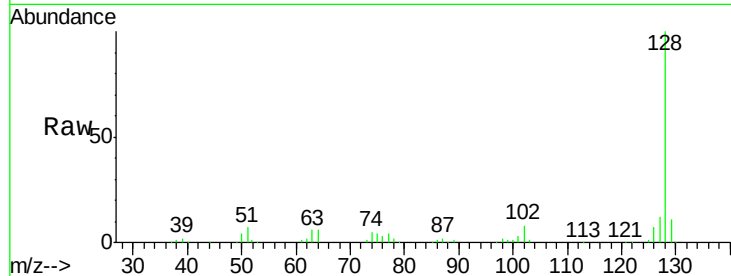
ClientSampleId :

VSTDCCC050EC

Tot Ion:	128	Resp:	132035
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.4	15.6
129	10.7	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
1/25/2019 10:01:58 AM



#96

1,2,3-Trichlorobenzene

Concen: 43.615 ug/l

RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV009266.D

Acq: 24 Jan 2019 18:53

Tgt Ion:	180	Resp:	60055
Ion Ratio	Lower	Upper	
180	100		
182	95.1	47.5	142.6
145	33.1	17.2	51.6

