

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV012219\
 Data File : VV009233.D
 Acq On : 22 Jan 2019 13:24
 Operator : SY/MD
 Sample : VSTDICCC050
 Misc : 5.00 G/5ML/MSVOA V/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

MMDadoda
 1/24/2019 11:43:58 AM

Quant Time: Jan 23 01:11:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\82V012219S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 23 00:37:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.73	168	92897	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.66	114	156838	50.00	ug/l	0.00
63) Chlorobenzene-d5	8.89	117	140750	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.30	152	72342	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.07	65	50708	40.28	ug/l	0.00
Spiked Amount			Recovery	=	80.56%	
35) Dibromofluoromethane	4.64	113	45948	44.17	ug/l	0.00
Spiked Amount			Recovery	=	88.34%	
50) Toluene-d8	7.36	98	182712	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
62) 4-Bromofluorobenzene	10.12	95	66692	43.40	ug/l	0.00
Spiked Amount			Recovery	=	86.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.14	85	33675	45.640	ug/l	100
3) Chloromethane	1.25	50	47762	44.395	ug/l	100
4) Vinyl Chloride	1.32	62	56192	53.422	ug/l	100
5) Bromomethane	1.53	94	31767	46.016	ug/l	100
6) Chloroethane	1.59	64	31712	47.867	ug/l	100
7) Trichlorofluoromethane	1.76	101	40916	63.577	ug/l	100
8) Diethyl Ether	1.96	74	25005	47.991	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.14	101	49736	51.928	ug/l	100
10) Methyl Iodide	2.25	142	78597	49.948	ug/l	100
11) Tert butyl alcohol	2.65	59	16758	182.154	ug/l	100
12) 1,1-Dichloroethene	2.13	96	48312	50.235	ug/l	100
13) Acrolein	2.05	56	13953	209.247	ug/l	100
14) Allyl chloride	2.42	41	84103	49.744	ug/l	100
15) Acrylonitrile	2.76	53	53680	238.230	ug/l	100
16) Acetone	2.17	43	72295	234.891	ug/l	100
17) Carbon Disulfide	2.31	76	148637	51.790	ug/l	100
18) Methyl Acetate	2.44	43	36699	45.914	ug/l	100
19) Methyl tert-butyl Ether	2.79	73	72857	48.365	ug/l	100
20) Methylene Chloride	2.52	84	51186	43.977	ug/l	100
21) trans-1,2-Dichloroethene	2.78	96	52159	50.158	ug/l	100
22) Diisopropyl ether	3.32	45	178205	47.341	ug/l	100
23) Vinyl Acetate	3.30	43	491333	236.471	ug/l	100
24) 1,1-Dichloroethane	3.22	63	110794	48.520	ug/l	100
25) 2-Butanone	4.01	43	86924	238.086	ug/l	100
26) 2,2-Dichloropropane	3.95	77	66810	55.344	ug/l	100
27) cis-1,2-Dichloroethene	3.95	96	64186	48.923	ug/l	100
28) Bromochloromethane	4.29	49	41441	47.268	ug/l	100
29) Tetrahydrofuran	4.38	42	46723	223.393	ug/l	100
30) Chloroform	4.42	83	112623	47.456	ug/l	100
31) Cyclohexane	4.72	56	99654	48.971	ug/l	100
32) 1,1,1-Trichloroethane	4.65	97	96743	51.093	ug/l	100
36) 1,1-Dichloropropene	4.87	75	85783	50.514	ug/l	100
37) Ethyl Acetate	4.12	43	33539	47.282	ug/l	100
38) Carbon Tetrachloride	4.87	117	88169	52.249	ug/l	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.17	83	104996	53.729	ug/l	100
40) Benzene	5.14	78	242951	50.646	ug/l	100
41) Methacrylonitrile	4.30	41	20145	48.500	ug/l	100
42) 1,2-Dichloroethane	5.17	62	75131	46.944	ug/l	100
43) Isopropyl Acetate	5.32	43	66707	47.325	ug/l	100
44) Trichloroethene	5.95	130	62706	50.774	ug/l	100
45) 1,2-Dichloropropane	6.22	63	57633	49.301	ug/l	100
46) Dibromomethane	6.35	93	30961	48.606	ug/l	100
47) Bromodichloromethane	6.55	83	79343	47.748	ug/l	100
48) Methyl methacrylate	6.41	41	33322	46.643	ug/l	100
49) 1,4-Dioxane	6.41	88	7877	953.144	ug/l	100
51) 4-Methyl-2-Pentanone	7.27	43	167665	237.795	ug/l	100
52) Toluene	7.43	92	154360	51.267	ug/l	100
53) t-1,3-Dichloropropene	7.69	75	77588	47.993	ug/l	100
54) cis-1,3-Dichloropropene	7.07	75	90381	49.343	ug/l	100
55) 1,1,2-Trichloroethane	7.88	97	41465	48.044	ug/l	100
56) Ethyl methacrylate	7.83	69	51271	49.039	ug/l	100
57) 1,3-Dichloropropane	8.05	76	76973	48.384	ug/l	100
58) 2-Chloroethyl Vinyl ether	6.94	63	2239	111.284	ug/l	100
59) 2-Hexanone	8.18	43	122997	235.347	ug/l	100
60) Dibromochloromethane	8.29	129	49787	48.448	ug/l	100
61) 1,2-Dibromoethane	8.40	107	41428	48.439	ug/l	100
64) Tetrachloroethene	8.02	164	51687	53.954	ug/l	100
65) Chlorobenzene	8.92	112	163754	50.946	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.02	131	56597	51.241	ug/l	100
67) Ethyl Benzene	9.05	91	299576	52.465	ug/l	100
68) m/p-Xylenes	9.18	106	229306	107.031	ug/l	100
69) o-Xylene	9.59	106	106374	53.293	ug/l	100
70) Styrene	9.60	104	170608	52.425	ug/l	100
71) Bromoform	9.77	173	27551	51.058	ug/l #	100
73) Isopropylbenzene	9.97	105	303396	52.961	ug/l	100
74) N-amyl acetate	9.84	43	56285	46.511	ug/l	100
75) 1,1,2,2-Tetrachloroethane	10.29	83	49714	48.457	ug/l	100
76) 1,2,3-Trichloropropane	10.32	75	38375m	48.074	ug/l	
77) Bromobenzene	10.26	156	62947	49.488	ug/l	100
78) n-propylbenzene	10.40	91	357344	52.642	ug/l	100
79) 2-Chlorotoluene	10.47	91	212748	50.802	ug/l	100
80) 1,3,5-Trimethylbenzene	10.58	105	255163	52.561	ug/l	100
81) trans-1,4-Dichloro-2-buten	10.05	75	14786	51.362	ug/l	100
82) 4-Chlorotoluene	10.58	91	248996	49.920	ug/l	100
83) tert-Butylbenzene	10.91	119	241494	52.317	ug/l	100
84) 1,2,4-Trimethylbenzene	10.96	105	255238	51.014	ug/l	100
85) sec-Butylbenzene	11.13	105	313922	52.909	ug/l	100
86) p-Isopropyltoluene	11.29	119	275928	52.453	ug/l	100
87) 1,3-Dichlorobenzene	11.23	146	130280	50.132	ug/l	100
88) 1,4-Dichlorobenzene	11.32	146	131885	50.009	ug/l	100
89) n-Butylbenzene	11.70	91	266991	51.532	ug/l	100
90) Hexachloroethane	11.95	117	49480	52.150	ug/l	100
91) 1,2-Dichlorobenzene	11.69	146	114964	49.471	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.48	75	8511	47.891	ug/l	100

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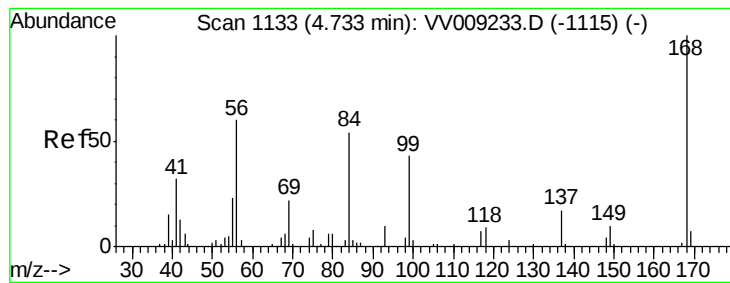
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.31	180	75113	47.393	ug/l	100
94) Hexachlorobutadiene	13.49	225	44512	49.740	ug/l	100
95) Naphthalene	13.55	128	129898	46.705	ug/l	100
96) 1,2,3-Trichlorobenzene	13.79	180	63259	47.022	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.73 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion:168 Resp: 92897

Ion Ratio Lower Upper

168 100

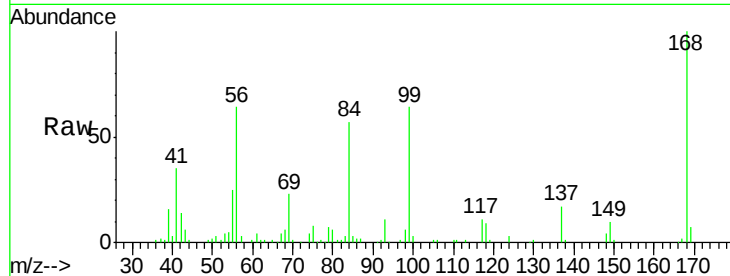
99 63.6 50.9 76.3

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Abundance Ion 167.90 (167.60 to 168.60): VV009233.D (-1115) (-)

Ion 98.90 (98.60 to 99.60): VV009233.D (-1115) (-)

4.73

40000

30000

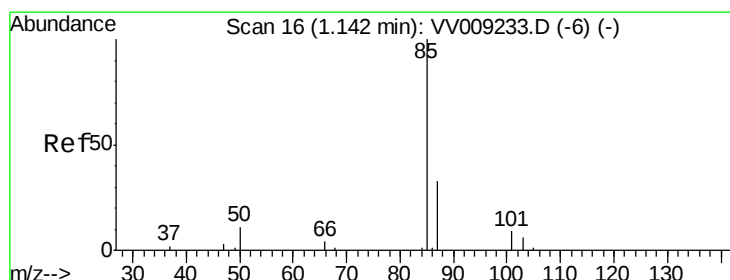
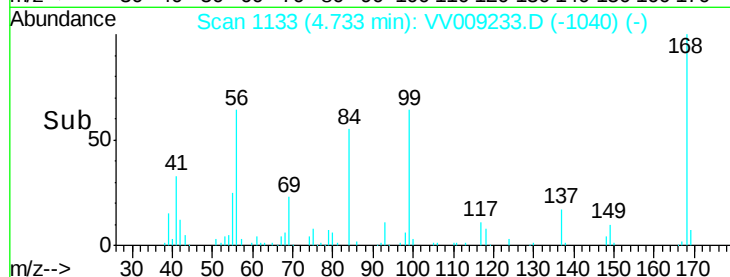
20000

10000

0

4.60 4.70 4.80 4.90

Time-->



#2

Dichlorodifluoromethane

Concen: 45.640 ug/l

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV009233.D

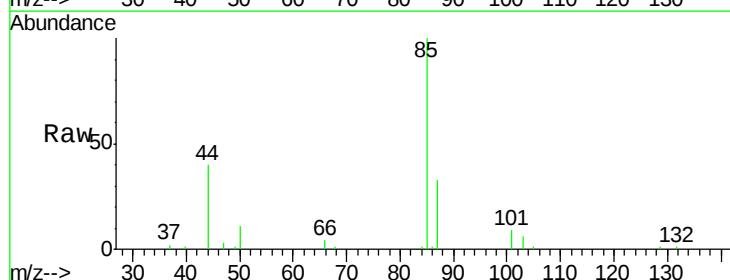
Acq: 22 Jan 2019 13:24

Tgt Ion: 85 Resp: 33675

Ion Ratio Lower Upper

85 100

87 33.1 16.6 49.7



Abundance Ion 84.90 (84.60 to 85.60): VV009233.D (-6) (-)

Ion 86.90 (86.60 to 87.60): VV009233.D (-6) (-)

1.14

15000

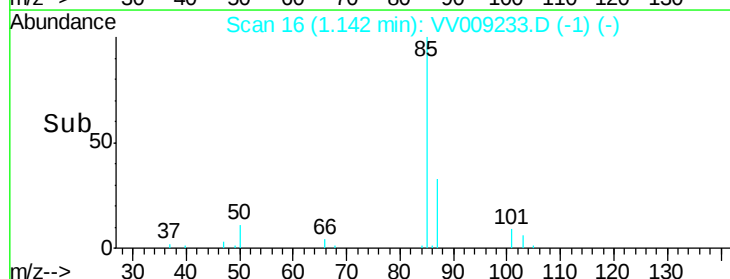
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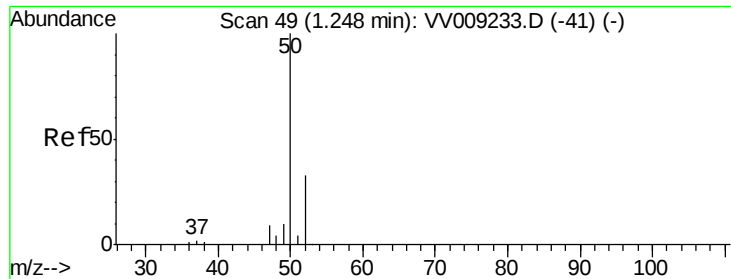
5000

0

1.10 1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 44.395 ug/l

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 50 Resp: 47762

Ion Ratio Lower Upper

50 100

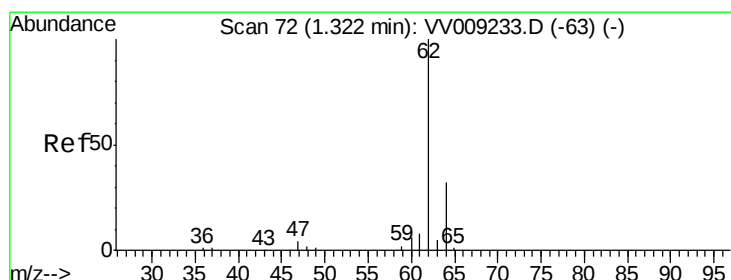
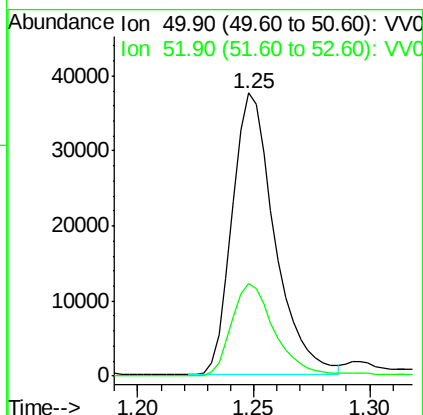
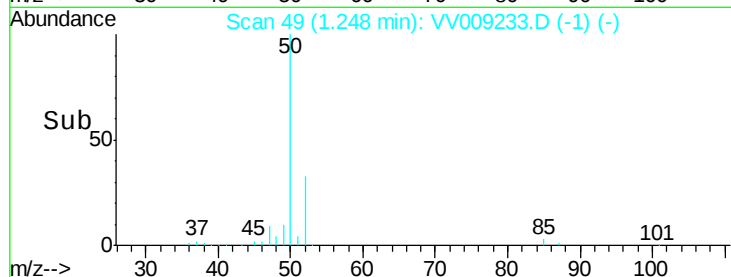
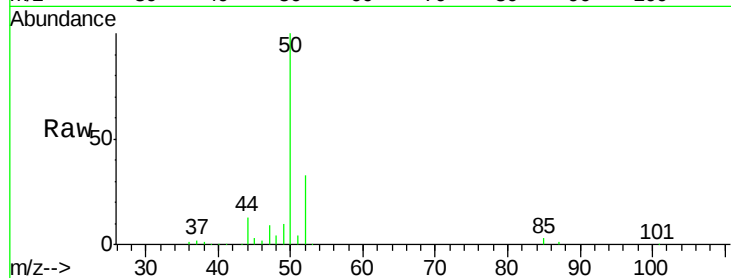
52 32.9 26.3 39.5

Manual Integrations

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#4

Vinyl Chloride

Concen: 53.422 ug/l

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009233.D

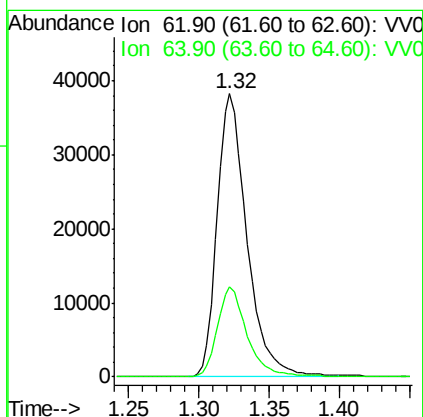
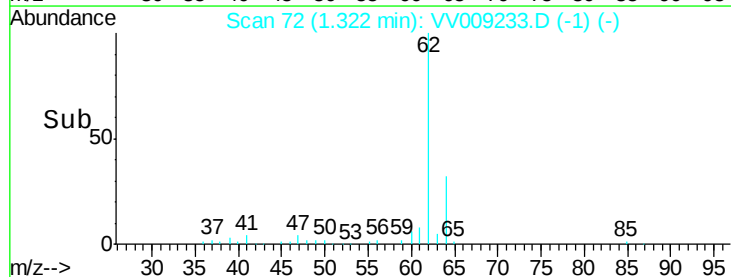
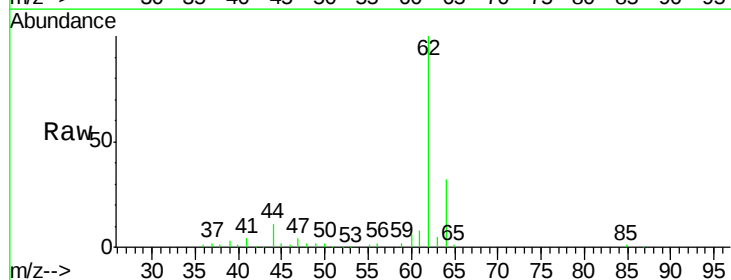
Acq: 22 Jan 2019 13:24

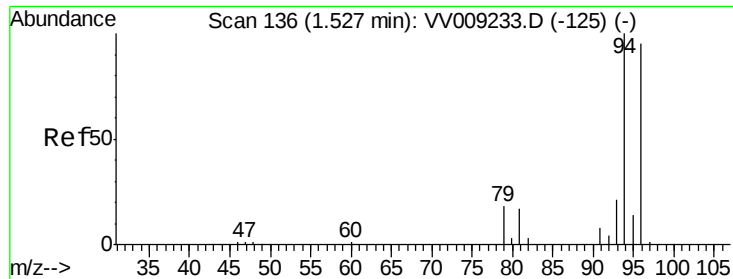
Tgt Ion: 62 Resp: 56192

Ion Ratio Lower Upper

62 100

64 31.7 25.4 38.0





#5

Bromomethane

Concen: 46.016 ug/l

RT: 1.53 min Scan# 136

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 94 Resp: 31767

Ion Ratio Lower Upper

94 100

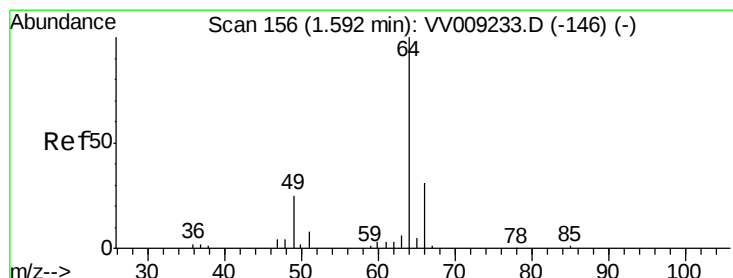
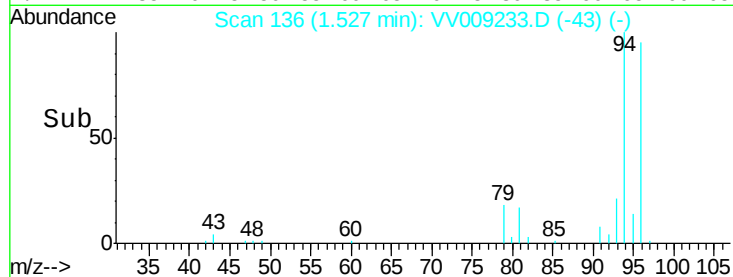
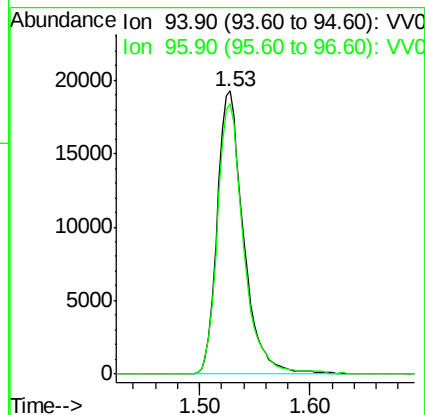
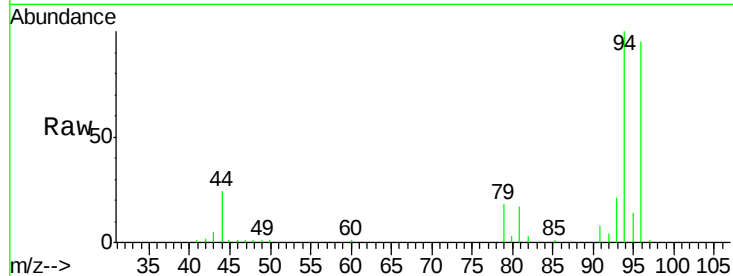
96 95.4 76.3 114.5

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#6

Chloroethane

Concen: 47.867 ug/l

RT: 1.59 min Scan# 156

Delta R.T. 0.00 min

Lab File: VV009233.D

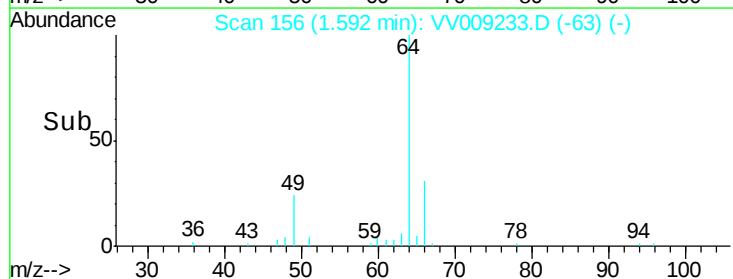
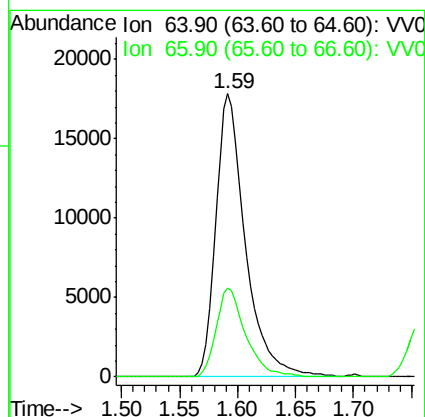
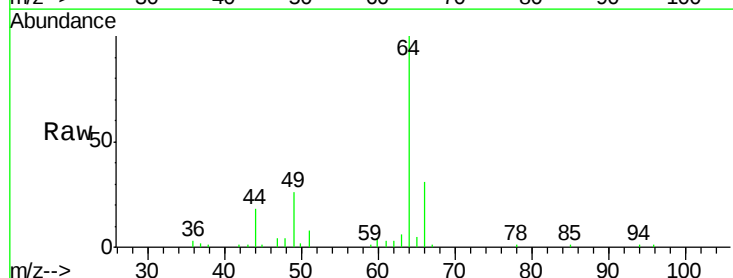
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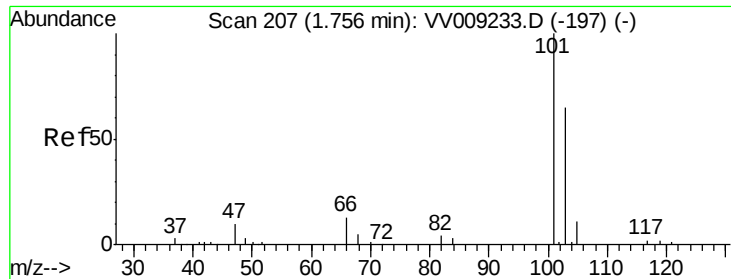
Tgt Ion: 64 Resp: 31712

Ion Ratio Lower Upper

64 100

66 31.4 25.1 37.7





#7

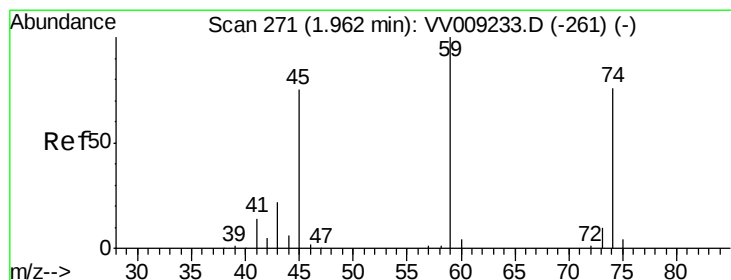
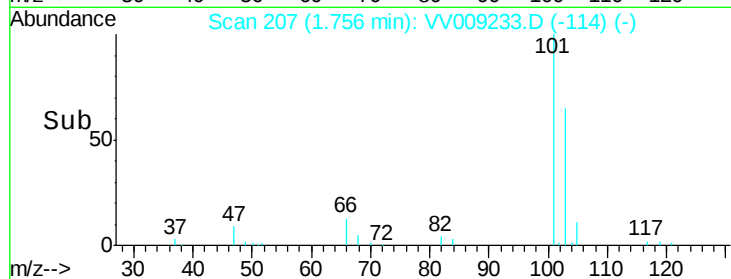
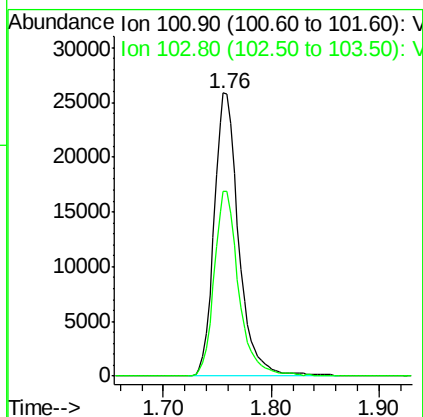
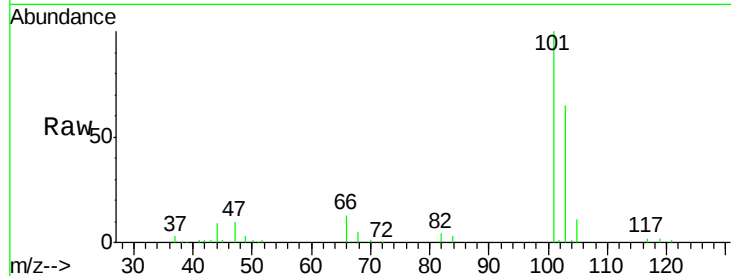
Trichlorofluoromethane
Concen: 63.577 ug/l
RT: 1.76 min Scan# 207
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

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Tot Ion	101	Resp	40916
Ion Ratio	100	Lower	Upper
101	100		
103	65.3	52.2	78.4

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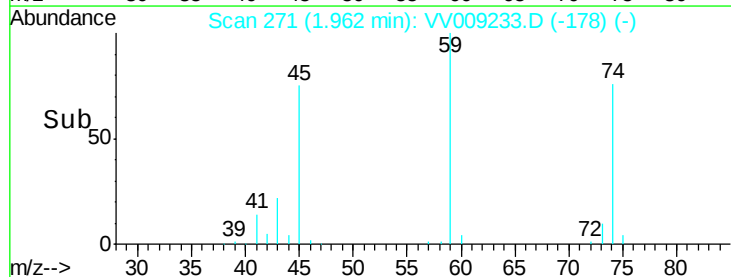
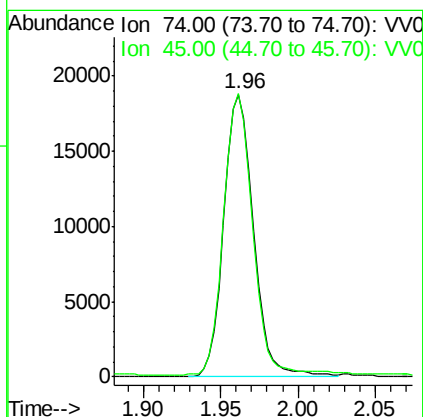
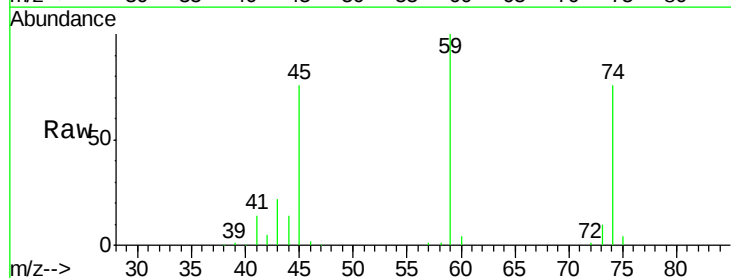
MMDadoda
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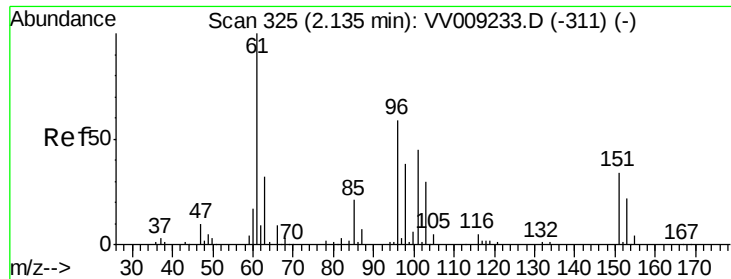


#8

Diethyl Ether
Concen: 47.991 ug/l
RT: 1.96 min Scan# 271
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	74	Resp	25005
Ion Ratio	100	Lower	Upper
74	100		
45	98.2	49.1	147.3





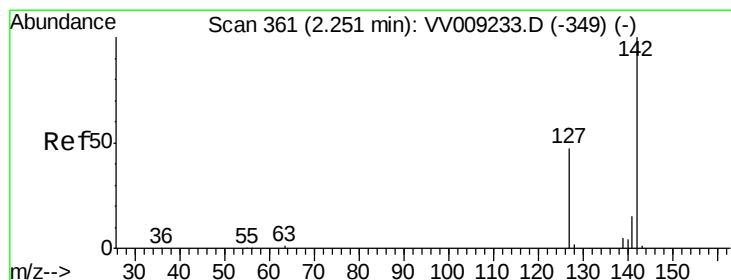
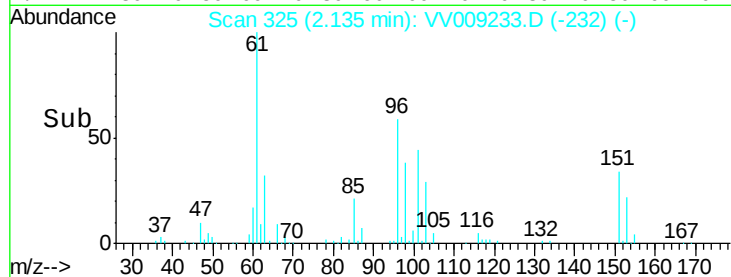
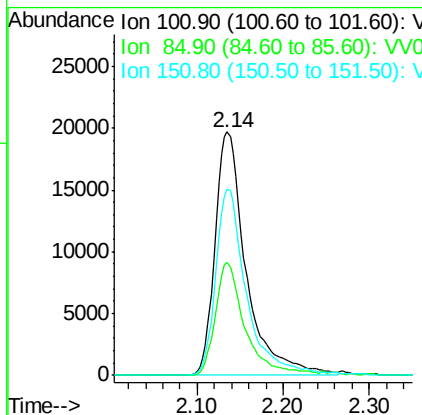
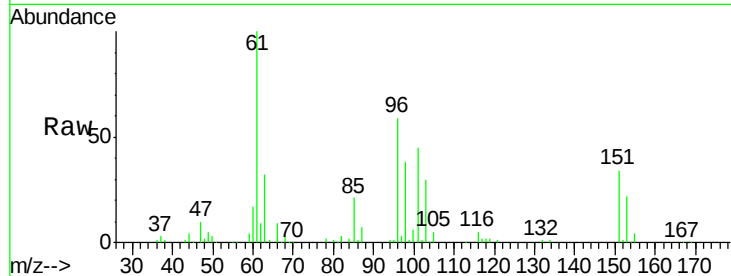
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.928 ug/l
RT: 2.14 min Scan# 325
Delta R.T. 0.00 min
Lab File: VV009233.D
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Tot Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.3	52.9
151	75.1	60.1	90.1

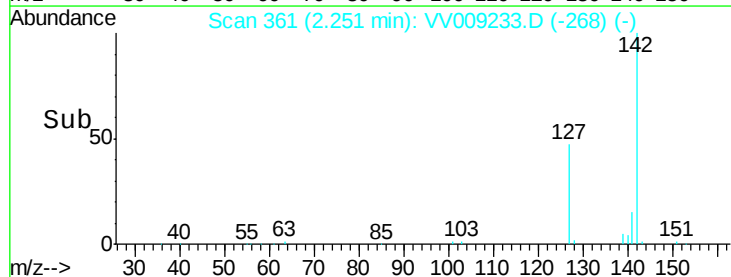
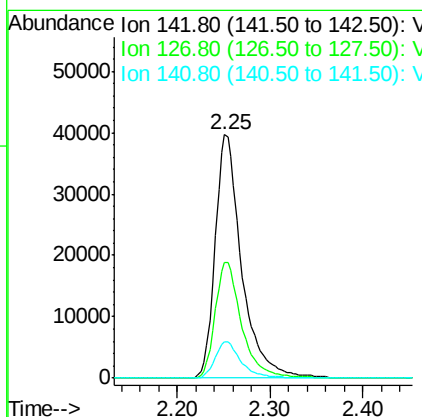
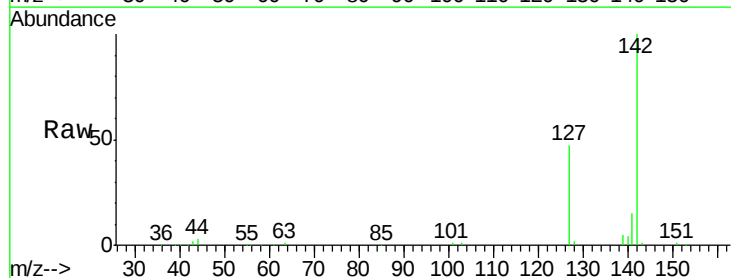
Manual Integrations
APPROVED

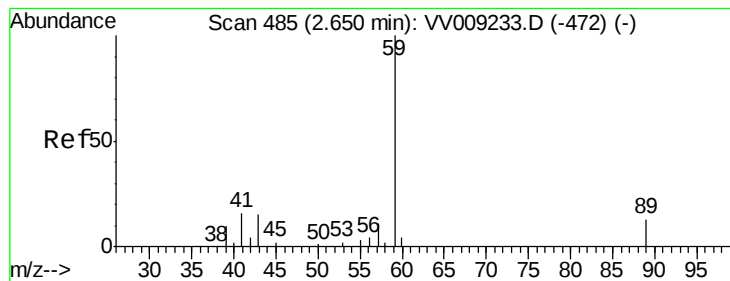
MMDadoda
1/24/2019 11:43:58 AM



#10
Methyl Iodide
Concen: 49.948 ug/l
RT: 2.25 min Scan# 361
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
142	100		
127	47.4	37.9	56.9
141	14.6	11.7	17.5





#11

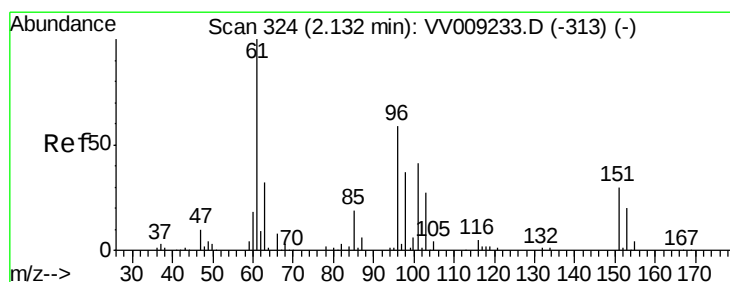
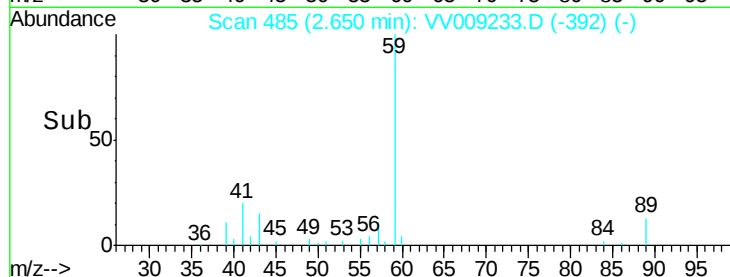
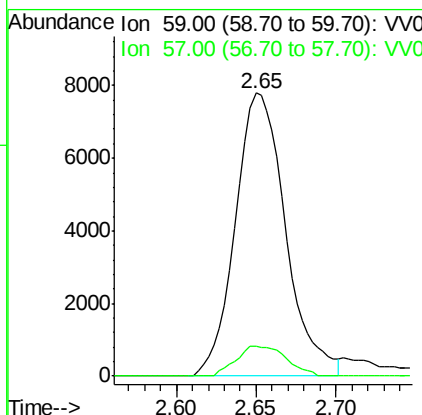
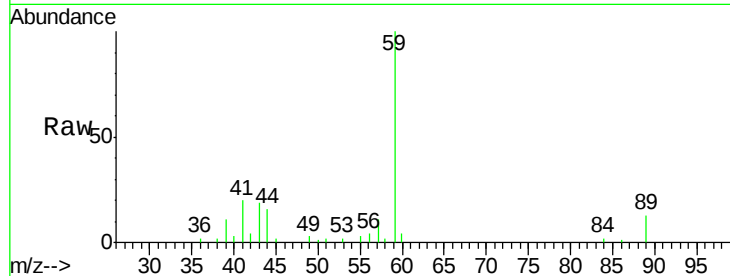
Tert butyl alcohol
 Concen: 182.154 ug/l
 RT: 2.65 min Scan# 485
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion	59	57	Ratio	100	10.5	Resp	16758	Lower	8.4	Upper	12.6
Ion	59	57	Ratio	100	10.5	Resp	16758	Lower	8.4	Upper	12.6

Manual Integrations
 APPROVED

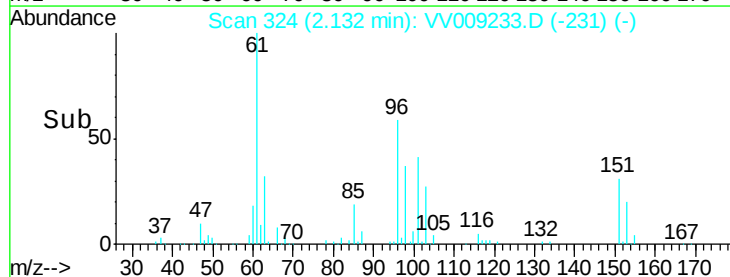
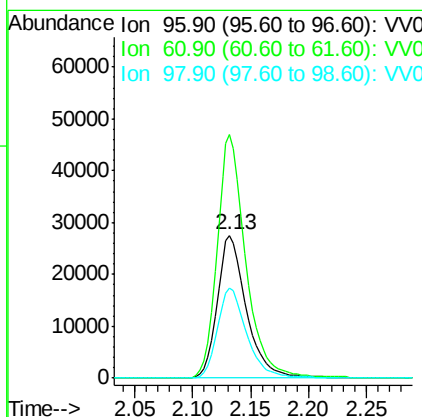
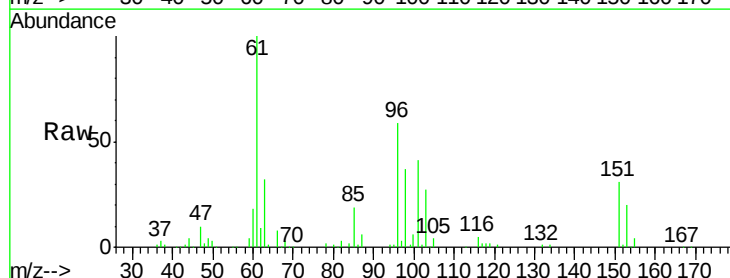
MMDadoda
 1/24/2019 11:43:58 AM

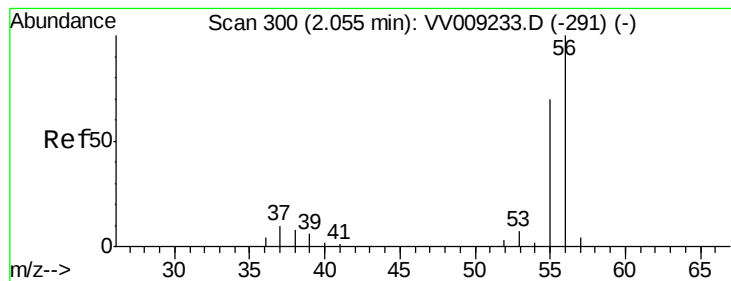


#12

1,1-Dichloroethene
 Concen: 50.235 ug/l
 RT: 2.13 min Scan# 324
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion	96	61	98	Ratio	100	170.8	63.2	Resp	48312	Lower	136.6	50.6	Upper	205.0	75.8
Ion	96	61	98	Ratio	100	170.8	63.2	Resp	48312	Lower	136.6	50.6	Upper	205.0	75.8





#13

Acrolein

Concen: 209.247 ug/l

RT: 2.05 min Scan# 300

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 56 Resp: 13953

Ion Ratio Lower Upper

56 100

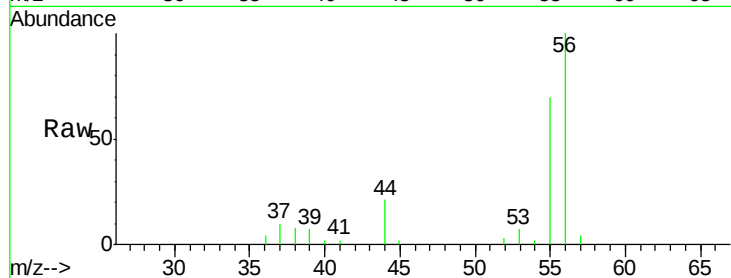
55 67.5 54.0 81.0

Manual Integrations

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Abundance Ion 56.00 (55.70 to 56.70): VV009233.D (-291) (-)

Ion 55.00 (54.70 to 55.70): VV009233.D (-291) (-)

2.05

10000

8000

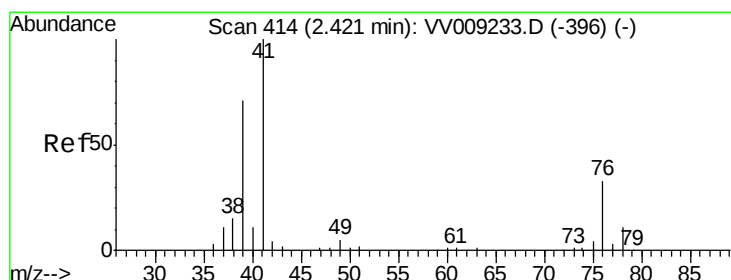
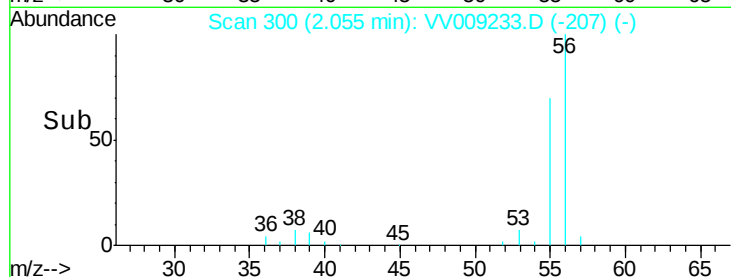
6000

4000

2000

0

Time-->



#14

Allyl chloride

Concen: 49.744 ug/l

RT: 2.42 min Scan# 414

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

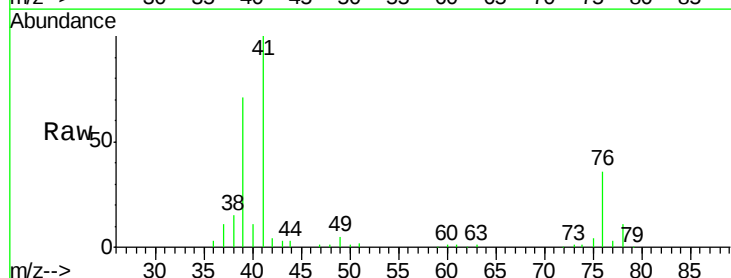
Tgt Ion: 41 Resp: 84103

Ion Ratio Lower Upper

41 100

39 68.9 55.1 82.7

76 33.4 26.7 40.1



Abundance Ion 41.00 (40.70 to 41.70): VV009233.D (-396) (-)

Ion 39.00 (38.70 to 39.70): VV009233.D (-396) (-)

Ion 75.90 (75.60 to 76.60): VV009233.D (-396) (-)

2.42

100000

80000

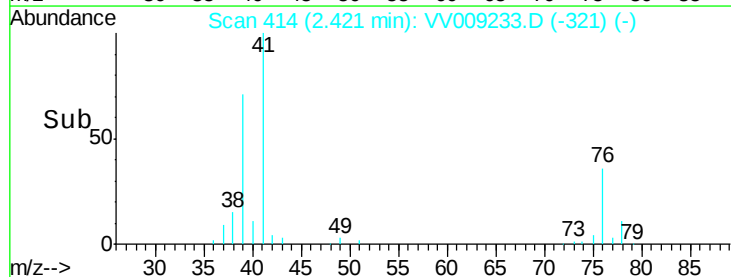
60000

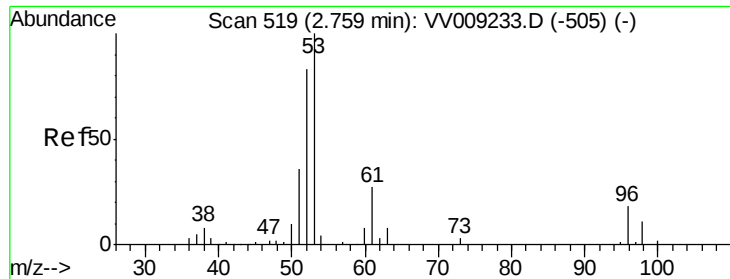
40000

20000

0

Time-->





#15

Acrylonitrile

Concen: 238.230 ug/l

RT: 2.76 min Scan# 519

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

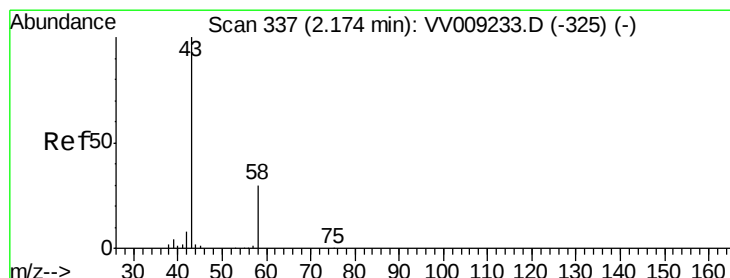
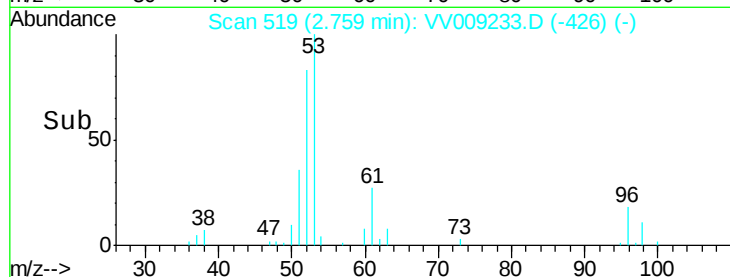
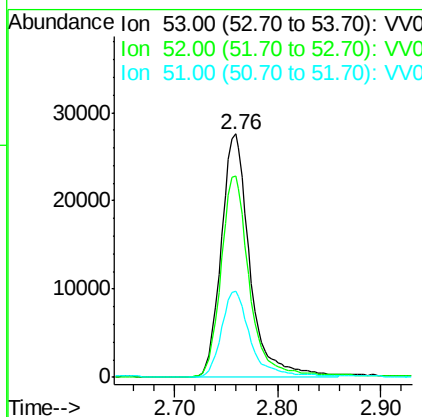
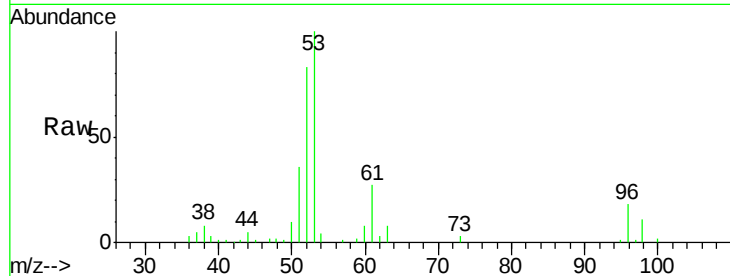
ClientSampleId :

VSTDICCC050

Tot Ion:	53	Resp:	53680
Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.3	97.9
51	36.2	29.0	43.4

Manual Integrations
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#16

Acetone

Concen: 234.891 ug/l

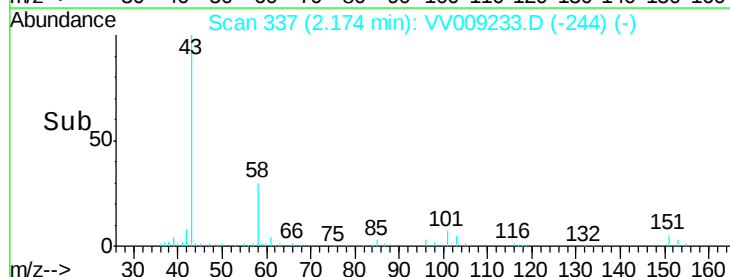
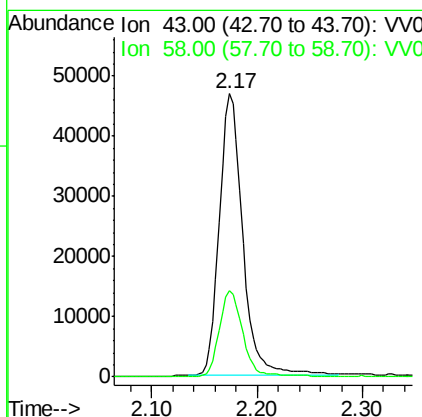
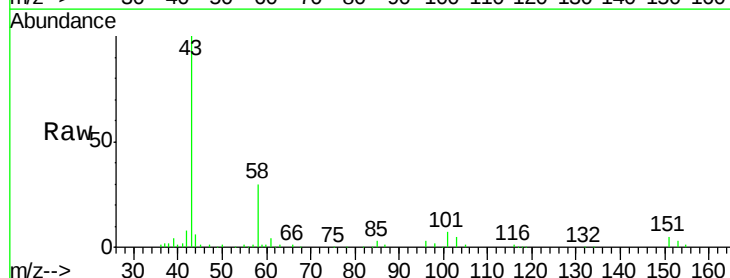
RT: 2.17 min Scan# 337

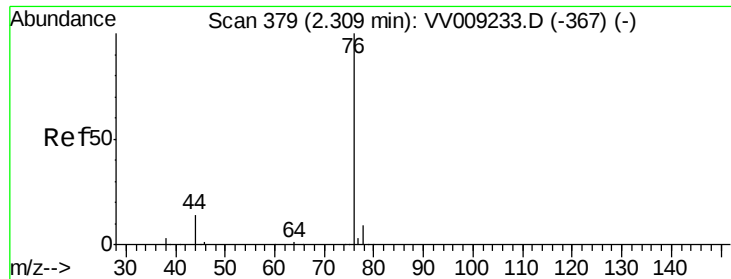
Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Tgt Ion:	43	Resp:	72295
Ion	Ratio	Lower	Upper
43	100		
58	30.5	24.4	36.6





#17

Carbon Disulfide

Concen: 51.790 ug/l

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Tot Ion: 76 Resp: 148637

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

Instrument :

MSVOA_V

ClientSampleId :

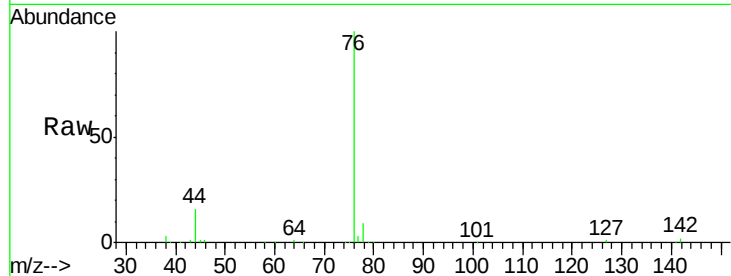
VSTDICCC050

Manual Integrations

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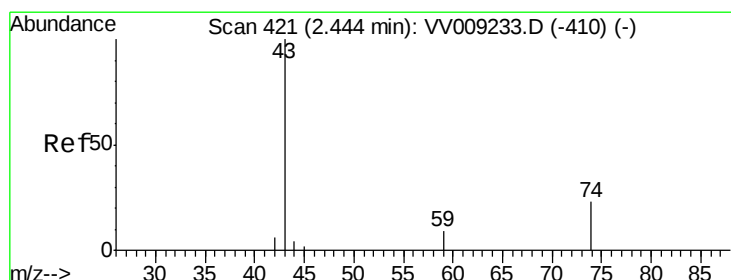
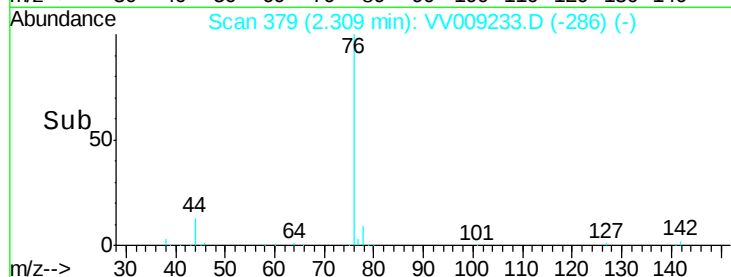
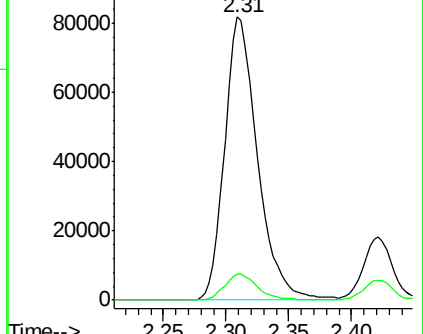
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Abundance Ion 75.90 (75.60 to 76.60): VV0

Ion 77.90 (77.60 to 78.60): VV0



#18

Methyl Acetate

Concen: 45.914 ug/l

RT: 2.44 min Scan# 421

Delta R.T. 0.00 min

Lab File: VV009233.D

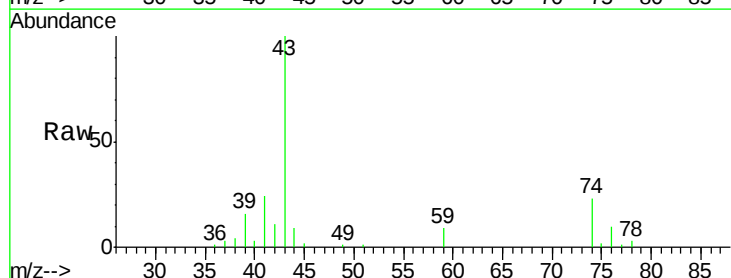
Acq: 22 Jan 2019 13:24

Tgt Ion: 43 Resp: 36699

Ion Ratio Lower Upper

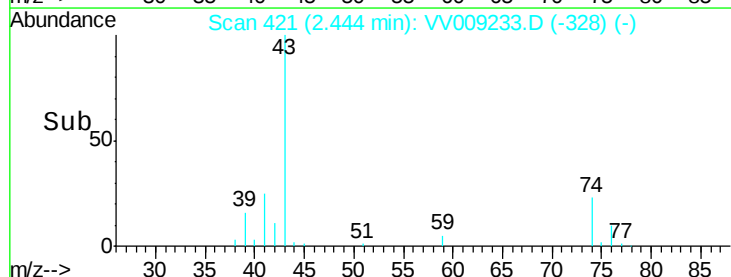
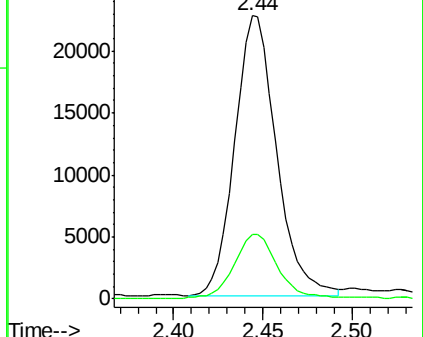
43 100

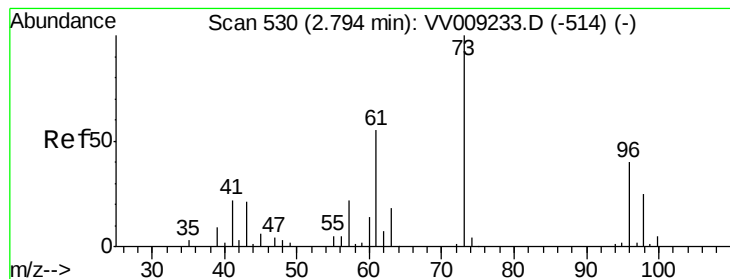
74 24.6 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0





#19

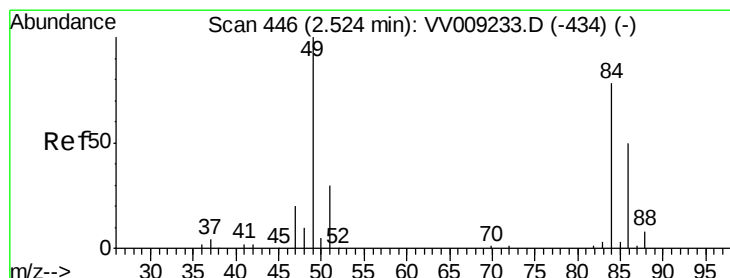
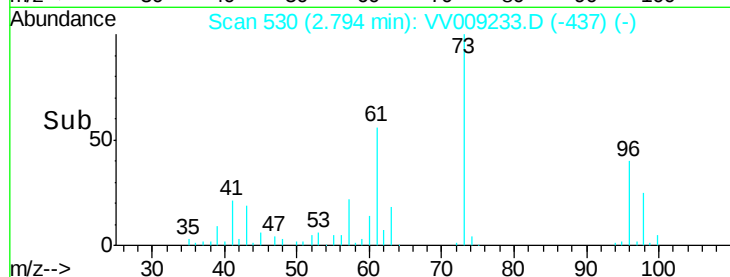
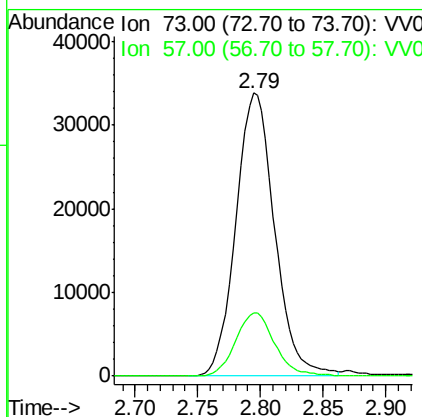
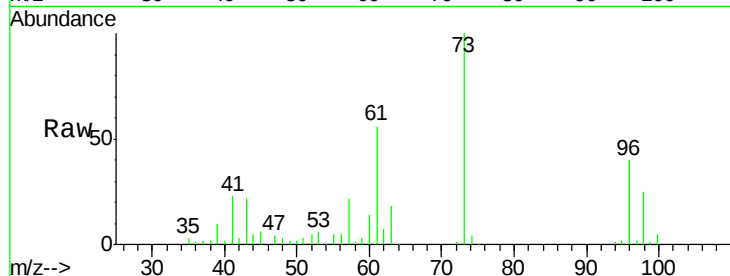
Methyl tert-butyl Ether
 Concen: 48.365 ug/l
 RT: 2.79 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.5	18.0	27.0

Manual Integrations
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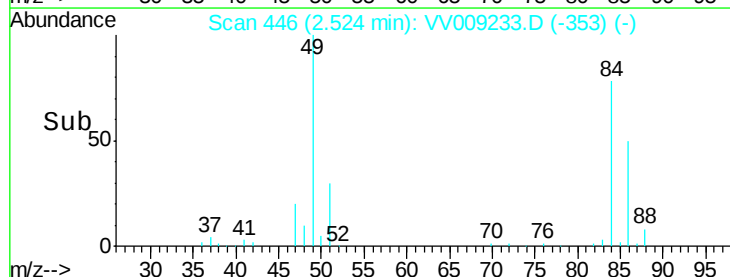
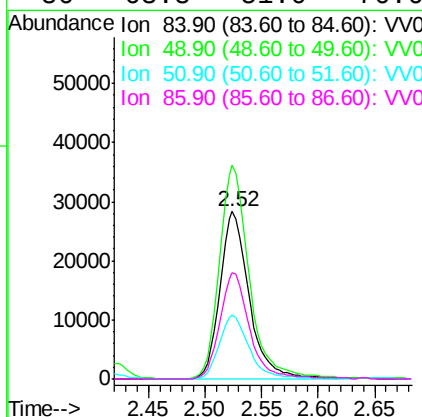
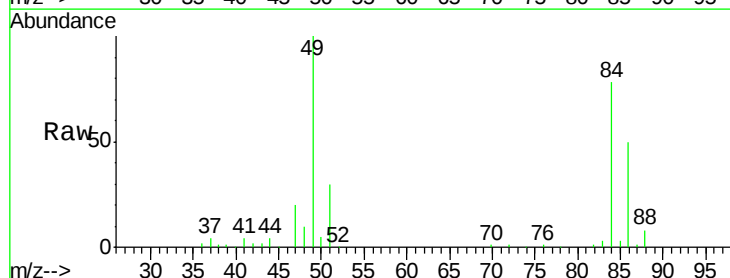
MMDadoda
 1/24/2019 11:43:58 AM

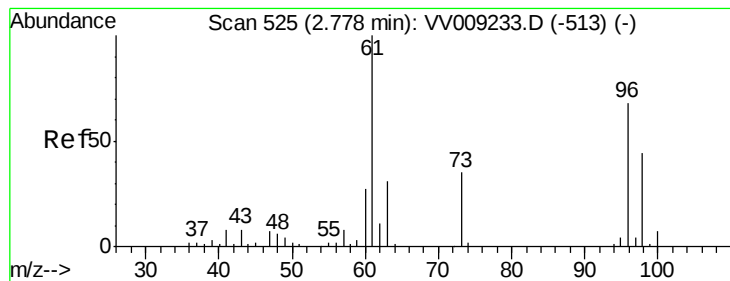


#20

Methylene Chloride
 Concen: 43.977 ug/l
 RT: 2.52 min Scan# 446
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
84	100		
49	127.5	102.0	153.0
51	38.6	30.9	46.3
86	63.8	51.0	76.6





#21

trans-1,2-Dichloroethene

Concen: 50.158 ug/l

RT: 2.78 min Scan# 525

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 96 Resp: 52159

Ion Ratio Lower Upper

96 100

61 147.1 117.7 176.5

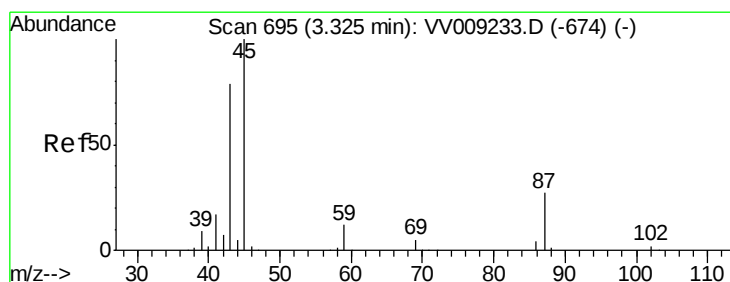
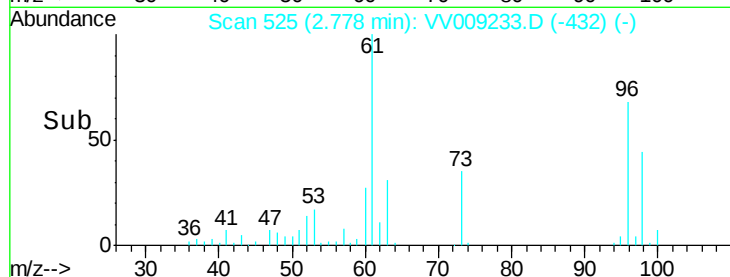
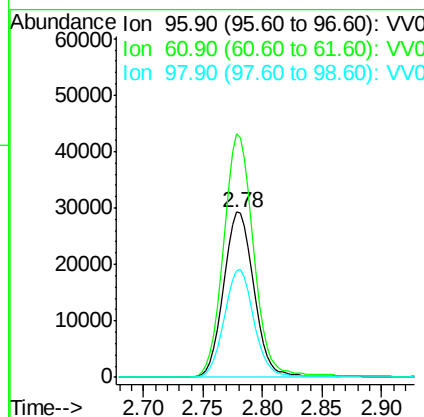
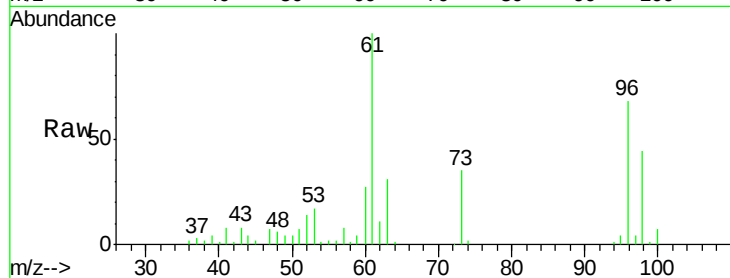
98 64.4 51.5 77.3

Manual Integrations

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#22

Diisopropyl ether

Concen: 47.341 ug/l

RT: 3.32 min Scan# 695

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Tgt Ion: 45 Resp: 178205

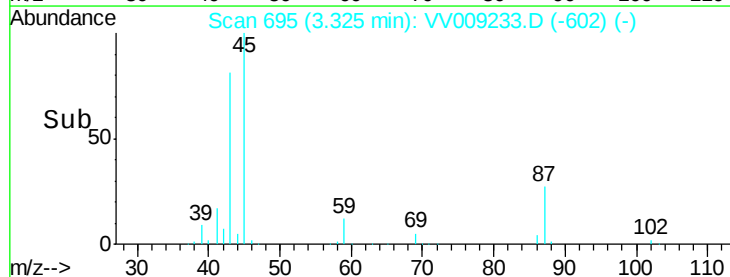
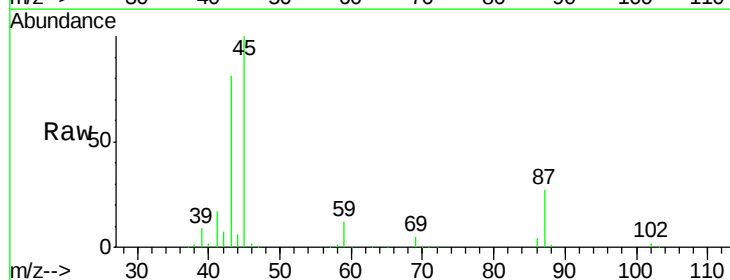
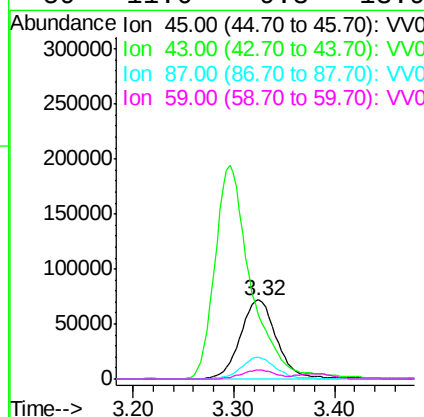
Ion Ratio Lower Upper

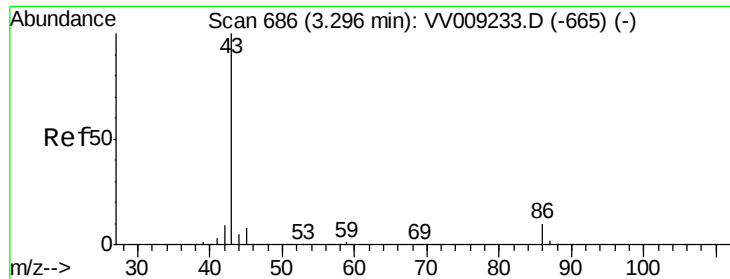
45 100

43 78.7 63.0 94.4

87 26.9 21.5 32.3

59 11.6 9.3 13.9





#23

Vinyl Acetate

Concen: 236.471 ug/l

RT: 3.30 min Scan# 686

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 491333

Ion Ratio Lower Upper

43 100

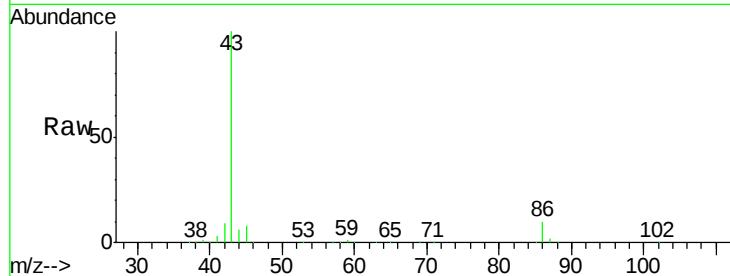
86 10.1 8.1 12.1

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

3.30

200000

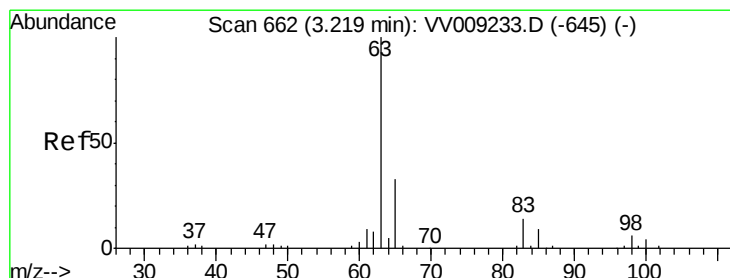
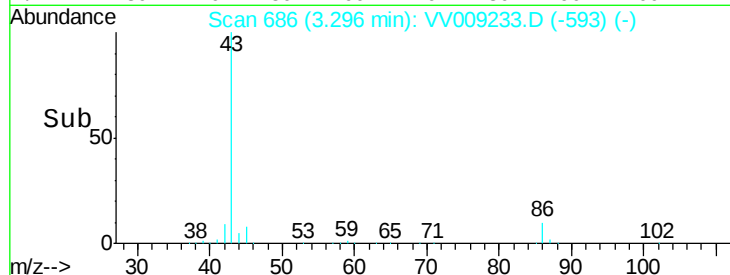
150000

100000

50000

0

Time-->



#24

1,1-Dichloroethane

Concen: 48.520 ug/l

RT: 3.22 min Scan# 662

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

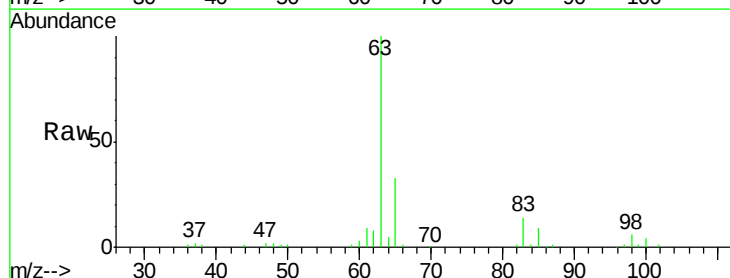
Tgt Ion: 63 Resp: 110794

Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

100 4.4 2.2 6.6



Abundance Ion 62.90 (62.60 to 63.60): VV0

Ion 97.90 (97.60 to 98.60): VV0

Ion 99.90 (99.60 to 100.60): VV0

3.22

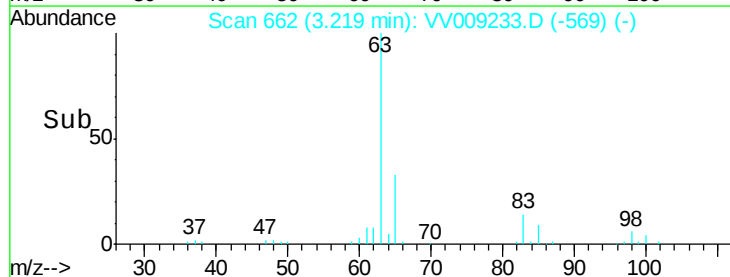
60000

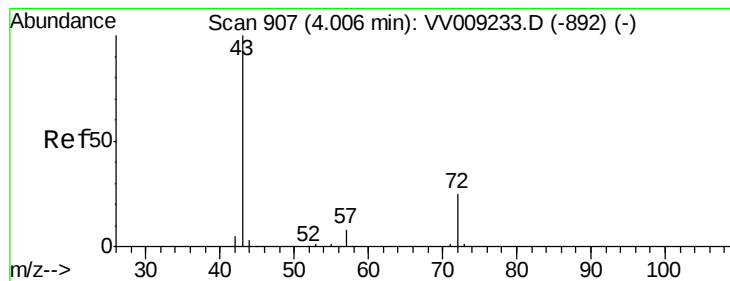
40000

20000

0

Time-->





#25

2-Butanone

Concen: 238.086 ug/l

RT: 4.01 min Scan# 907

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 86924

Ion Ratio Lower Upper

43 100

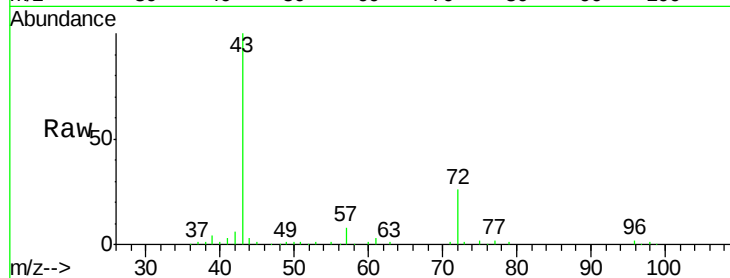
72 25.3 20.2 30.4

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VV009233.D (-892) (-)

Ion 72.00 (71.70 to 72.70): VV009233.D (-892) (-)

40000

30000

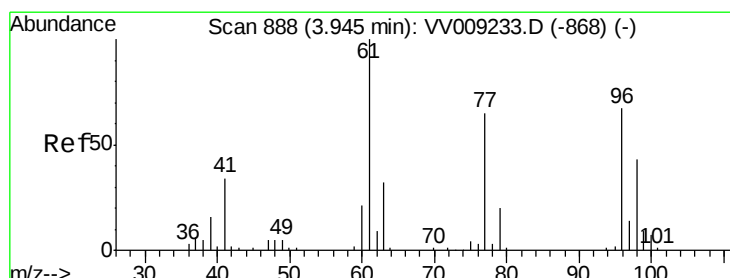
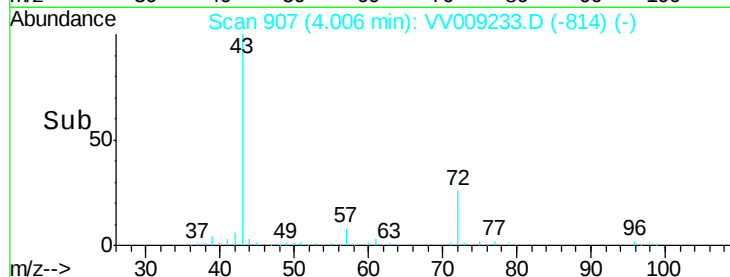
20000

10000

0

Time-->

3.95 4.00 4.05 4.10



#26

2,2-Dichloropropane

Concen: 55.344 ug/l

RT: 3.95 min Scan# 888

Delta R.T. 0.00 min

Lab File: VV009233.D

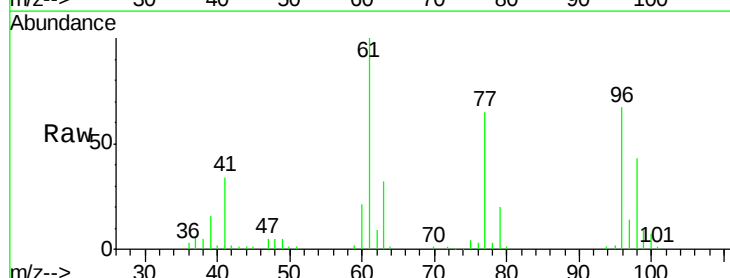
Acq: 22 Jan 2019 13:24

Tgt Ion: 77 Resp: 66810

Ion Ratio Lower Upper

77 100

97 21.7 10.9 32.6



Abundance Ion 76.90 (76.60 to 77.60): VV009233.D (-868) (-)

Ion 96.90 (96.60 to 97.60): VV009233.D (-868) (-)

25000

20000

15000

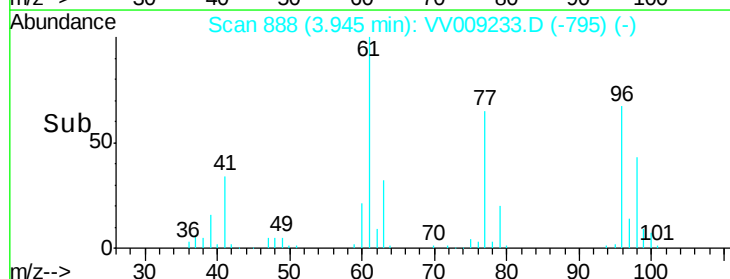
10000

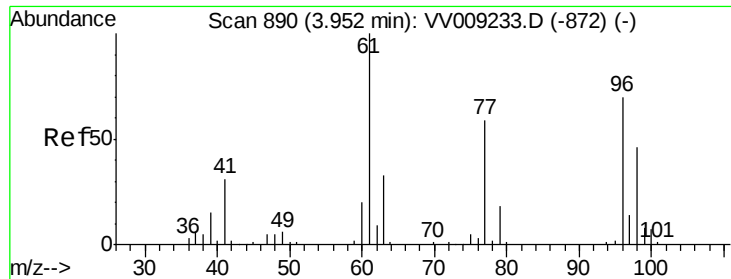
5000

0

Time-->

3.80 3.90 4.00 4.10





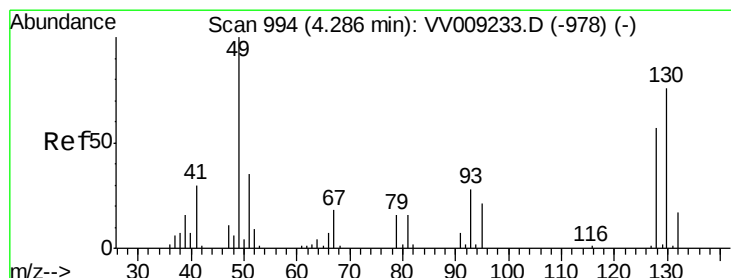
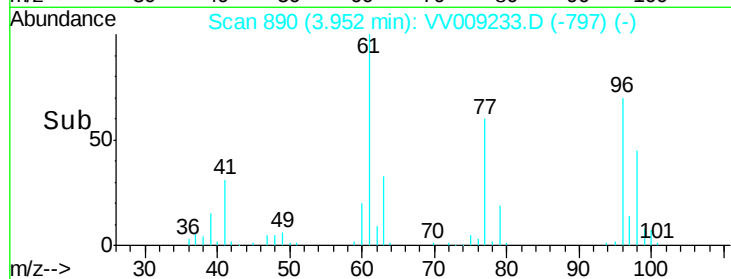
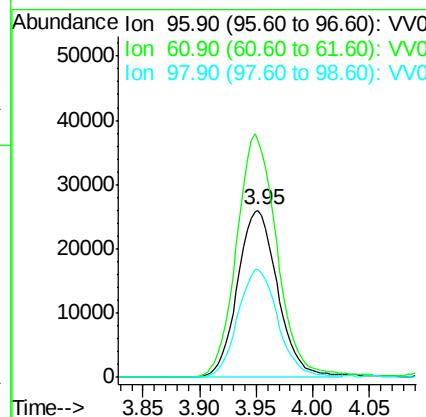
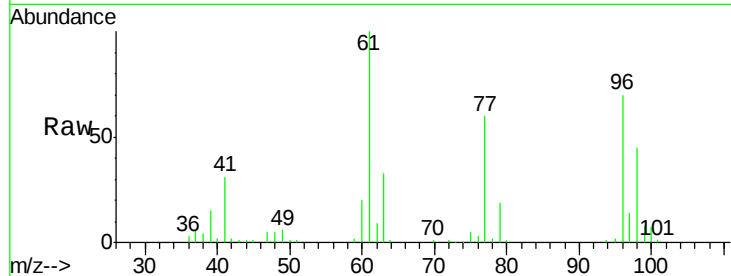
#27
 cis-1,2-Dichloroethene
 Concen: 48.923 ug/l
 RT: 3.95 min Scan# 890
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.2	0.0	296.4
98	65.0	0.0	130.0

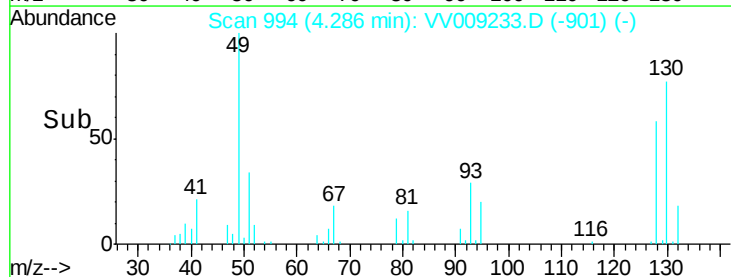
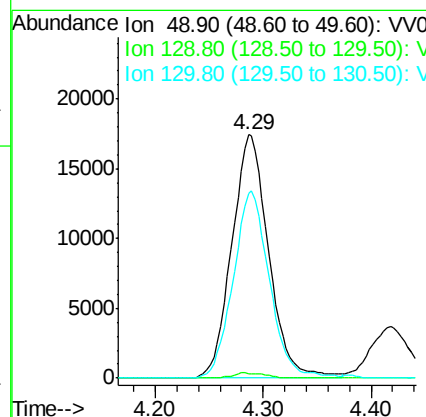
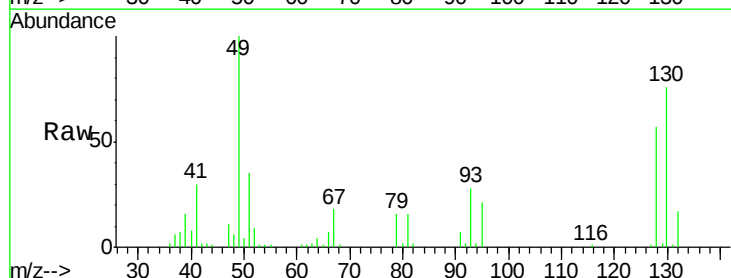
Manual Integrations
 APPROVED

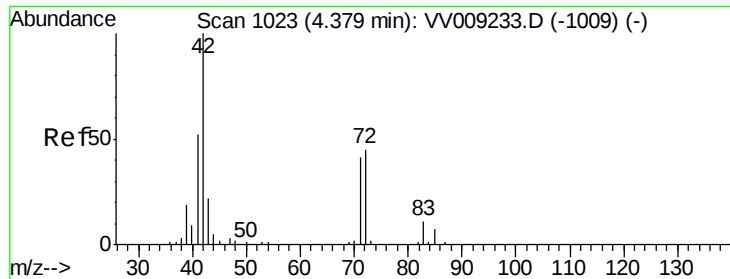
MMDadoda
 1/24/2019 11:43:58 AM



#28
 Bromochloromethane
 Concen: 47.268 ug/l
 RT: 4.29 min Scan# 994
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.6
130	75.3	60.2	90.4





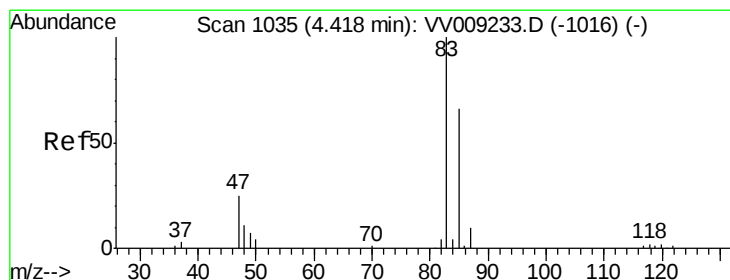
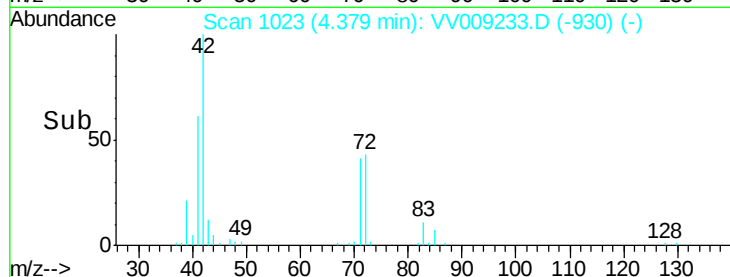
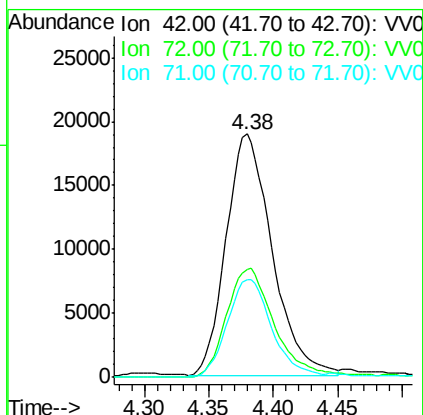
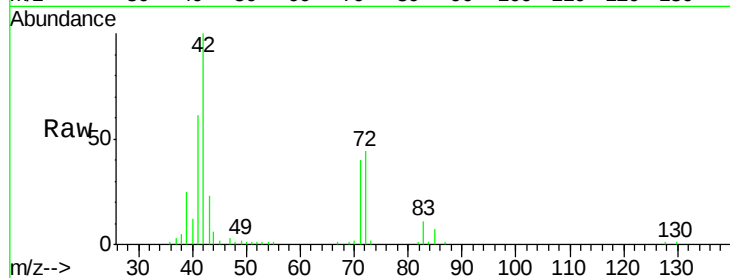
#29
Tetrahydrofuran
Concen: 223.393 ug/l
RT: 4.38 min Scan# 1023
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.1	37.7	56.5
71	39.4	31.5	47.3

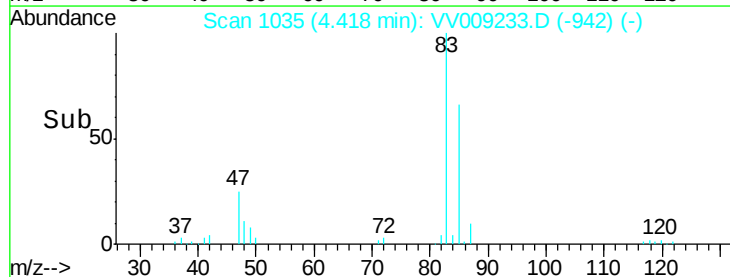
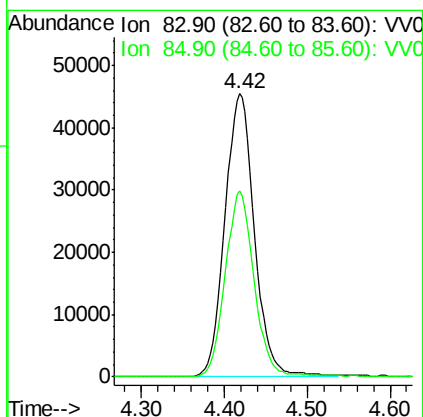
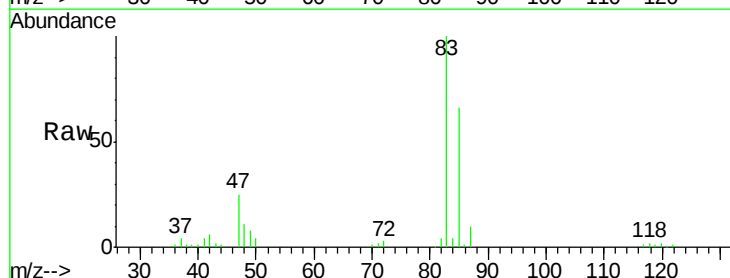
Manual Integrations
APPROVED

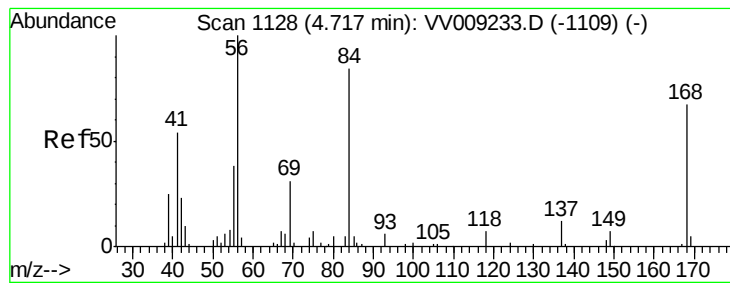
MMDadoda
1/24/2019 11:43:58 AM



#30
Chloroform
Concen: 47.456 ug/l
RT: 4.42 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.6	79.0





#31

Cyclohexane

Concen: 48.971 ug/l

RT: 4.72 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 56 Resp: 99654

Ion Ratio Lower Upper

56 100

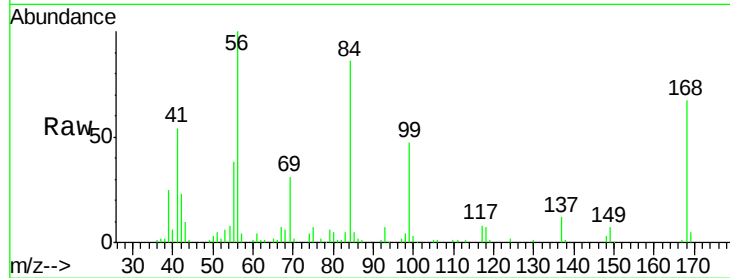
69 31.4 25.1 37.7

84 84.1 67.3 100.9

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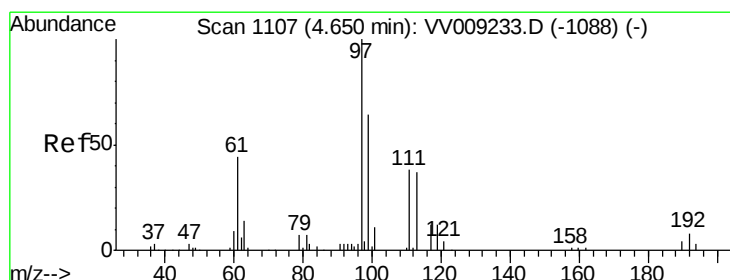
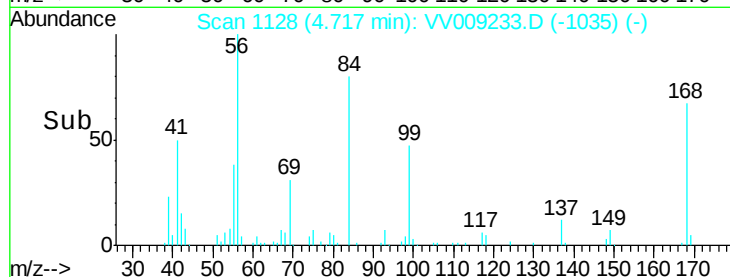
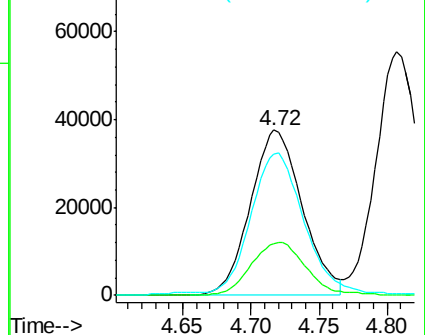
1/24/2019 11:43:58 AM



Abundance Ion 56.00 (55.70 to 56.70): VV009233.D (-1109) (-)

Ion 69.00 (68.70 to 69.70): VV009233.D (-1109) (-)

Ion 84.00 (83.70 to 84.70): VV009233.D (-1109) (-)



#32

1,1,1-Trichloroethane

Concen: 51.093 ug/l

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

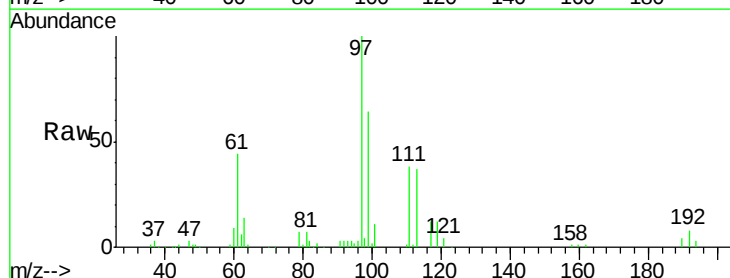
Tgt Ion: 97 Resp: 96743

Ion Ratio Lower Upper

97 100

99 62.7 50.2 75.2

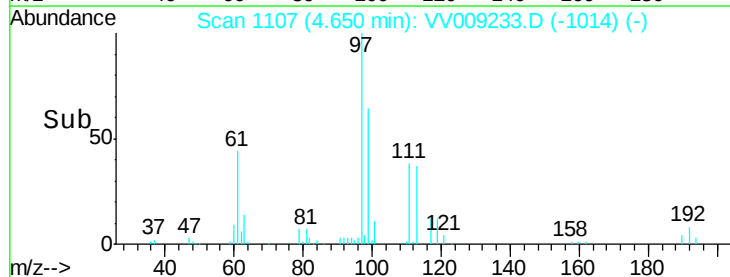
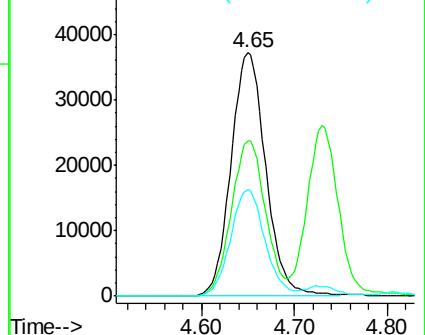
61 43.4 34.7 52.1

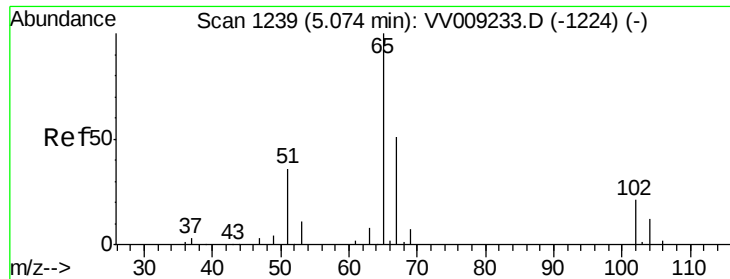


Abundance Ion 96.90 (96.60 to 97.60): VV009233.D (-1088) (-)

Ion 98.90 (98.60 to 99.60): VV009233.D (-1088) (-)

Ion 60.90 (60.60 to 61.60): VV009233.D (-1088) (-)





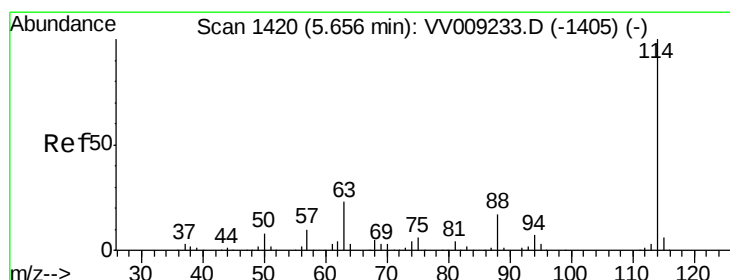
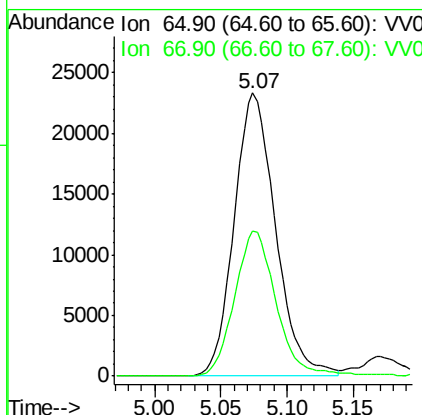
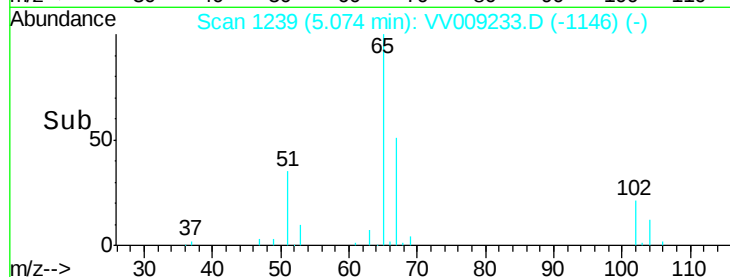
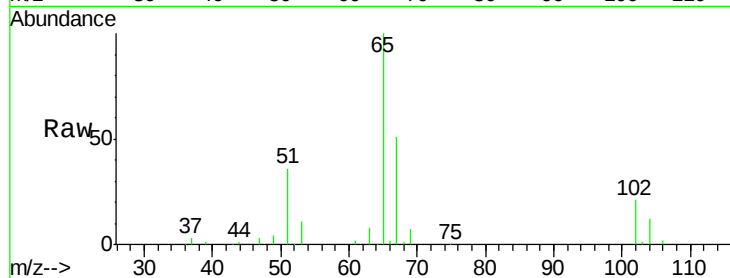
#33
 1,2-Dichloroethane-d4
 Concen: 40.283 ug/l
 RT: 5.07 min Scan# 1239
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
65	100		
67	51.4	0.0	102.8

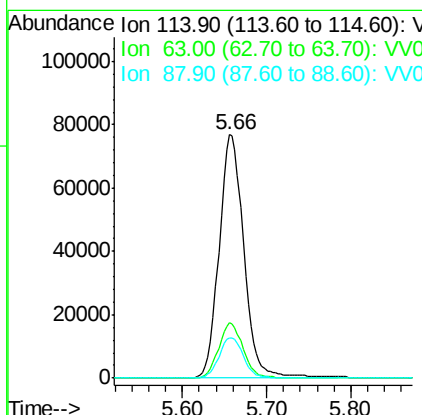
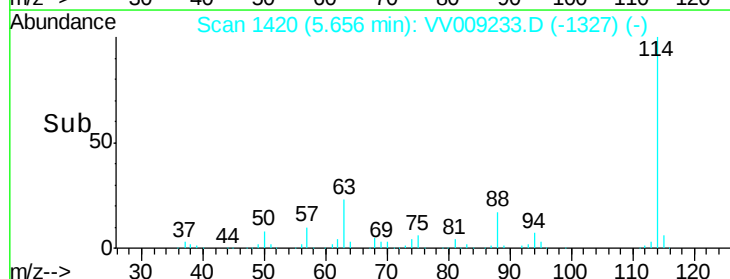
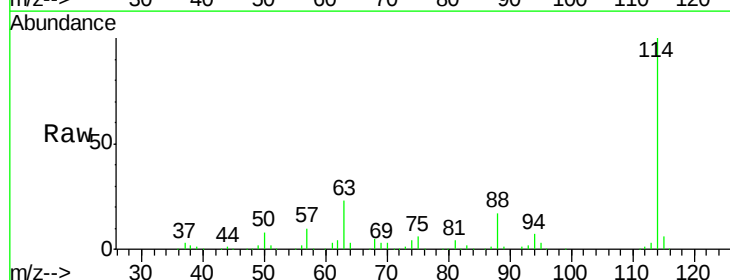
Manual Integrations
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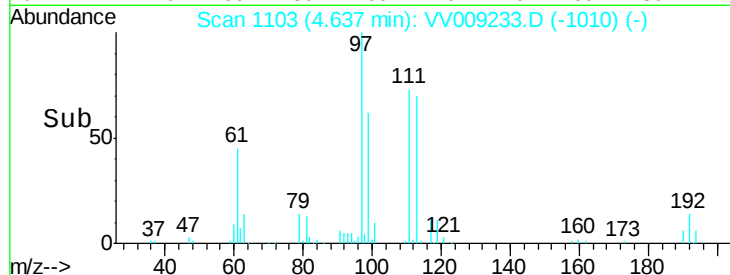
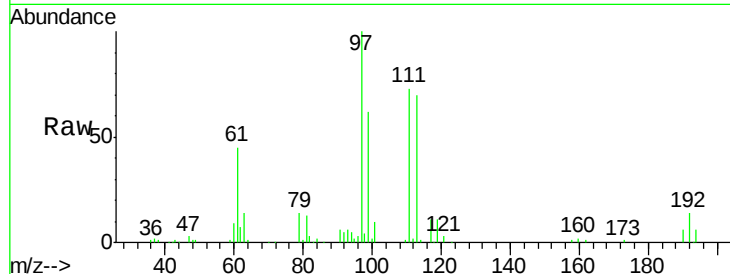
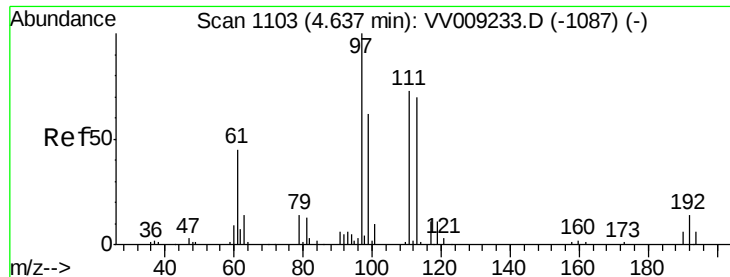
MMDadoda
 1/24/2019 11:43:58 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.66 min Scan# 1420
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	45.2
88	16.7	0.0	33.4





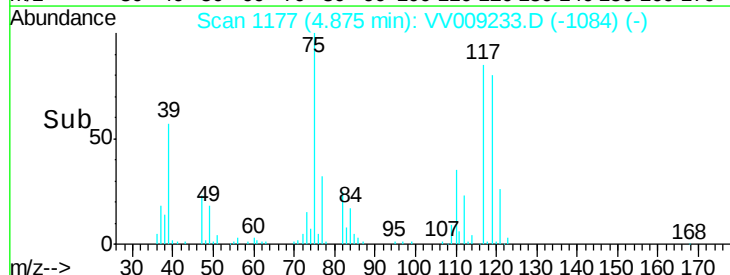
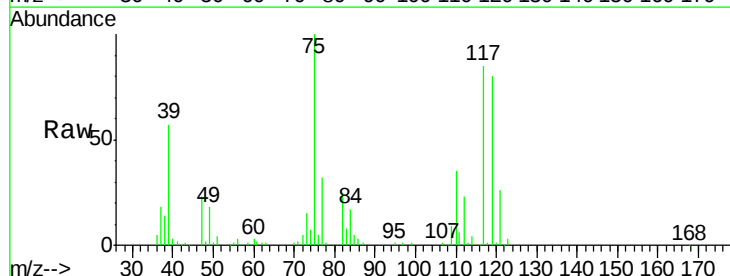
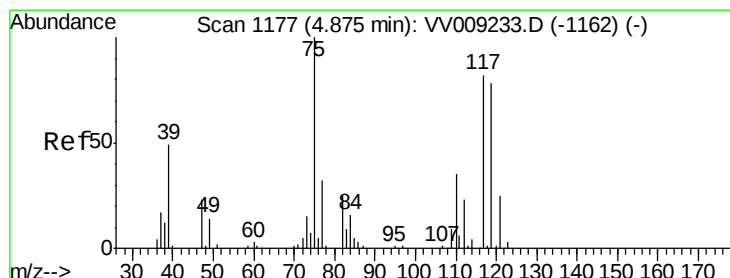
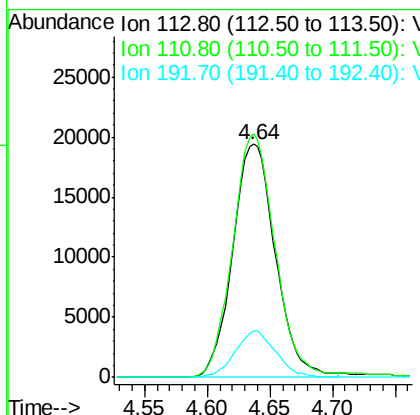
#35
Dibromofluoromethane
Concen: 44.173 ug/l
RT: 4.64 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tot Ion	Ratio	Resp	Lower	Upper
113	100	45948		
111	103.0	82.4	123.6	
192	18.8	15.0	22.6	

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

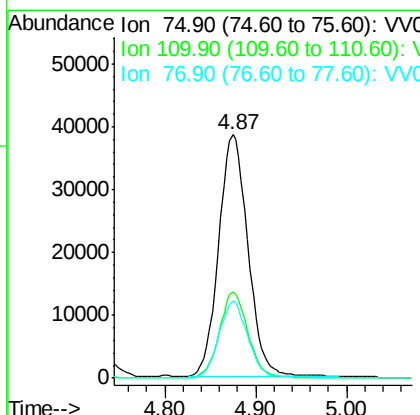
Manual Integrations
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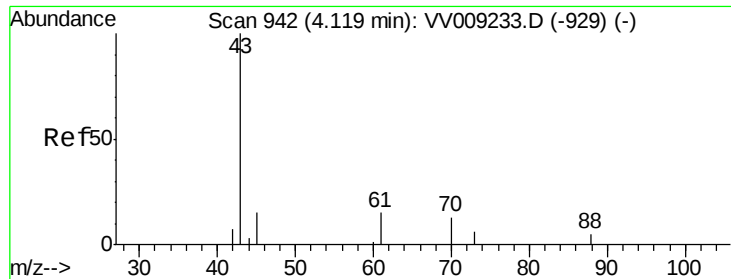
MMDadoda
1/24/2019 11:43:58 AM



#36
1,1-Dichloropropene
Concen: 50.514 ug/l
RT: 4.87 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	85783		
110	35.0	17.5	52.5	
77	31.9	25.5	38.3	





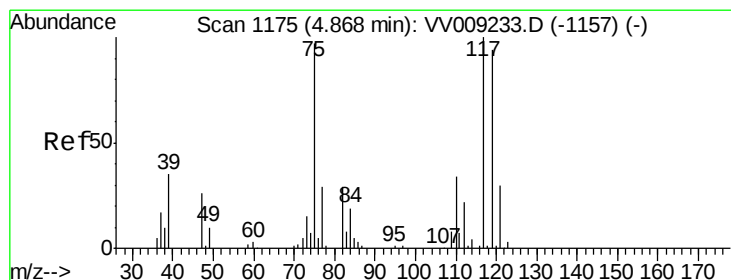
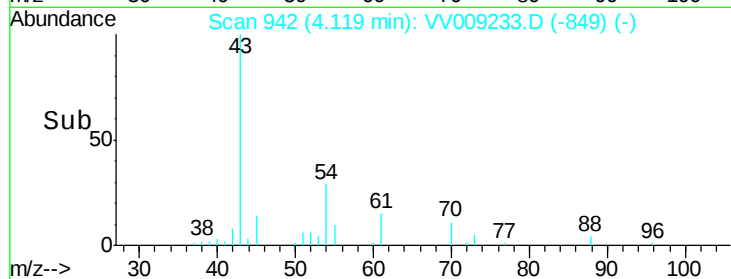
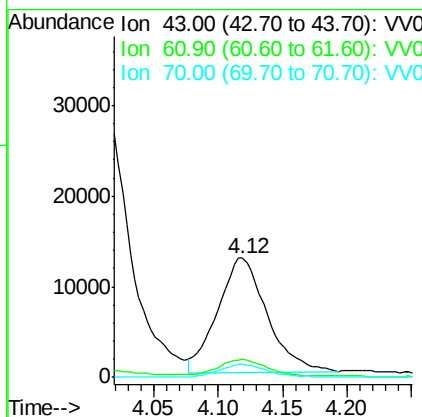
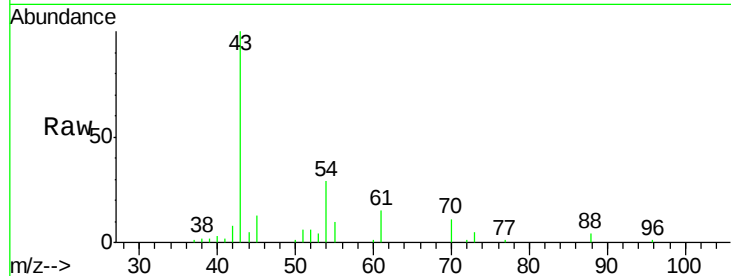
#37
Ethyl Acetate
Concen: 47.282 ug/l
RT: 4.12 min Scan# 942
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.0	12.0	18.0
70	10.9	8.7	13.1

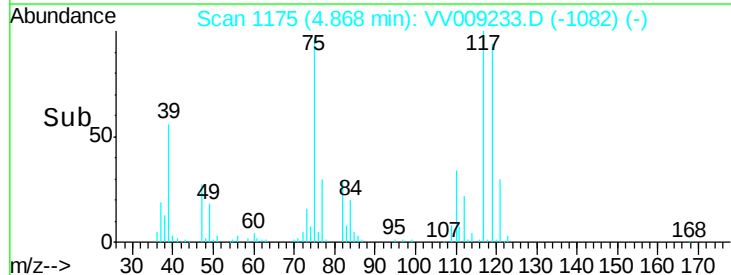
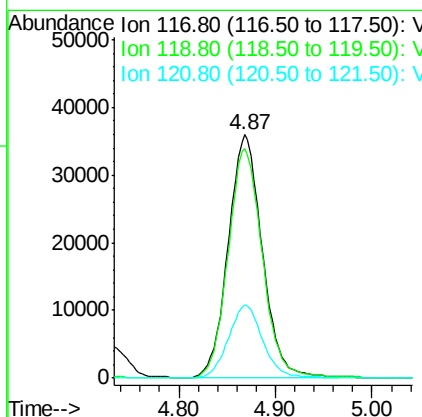
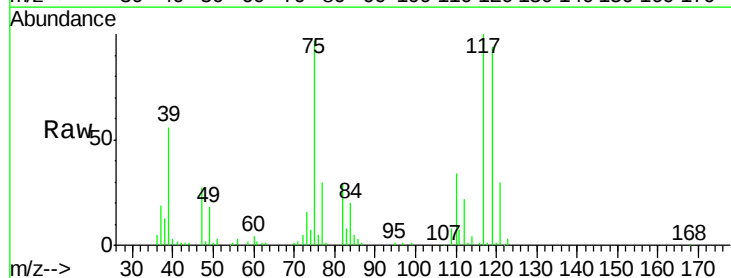
Manual Integrations
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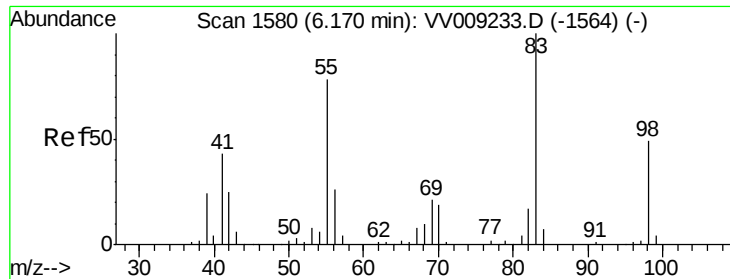
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1/24/2019 11:43:58 AM



#38
Carbon Tetrachloride
Concen: 52.249 ug/l
RT: 4.87 min Scan# 1175
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.4	113.2
121	30.2	24.2	36.2





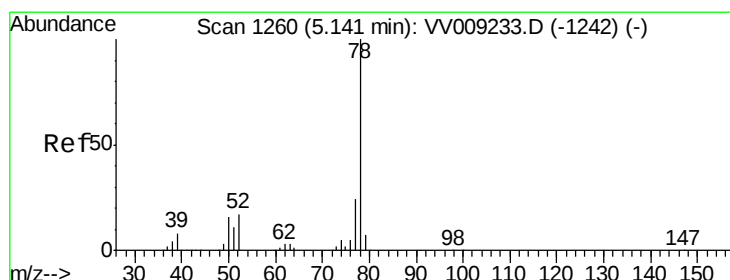
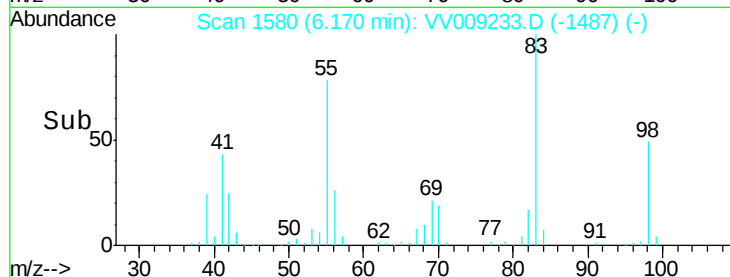
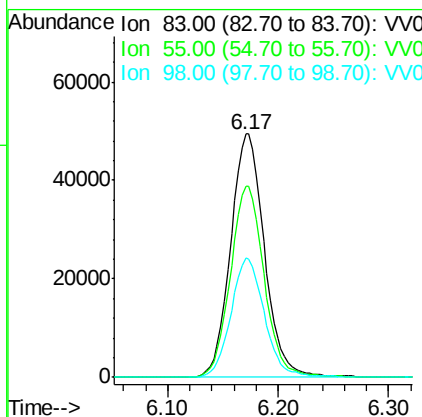
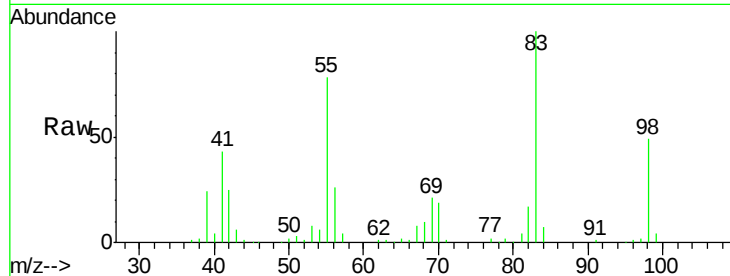
#39
Methvlcvclohexane
Concen: 53.729 ug/l
RT: 6.17 min Scan# 1580
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	78.5	62.8	94.2	
98	48.9	39.1	58.7	

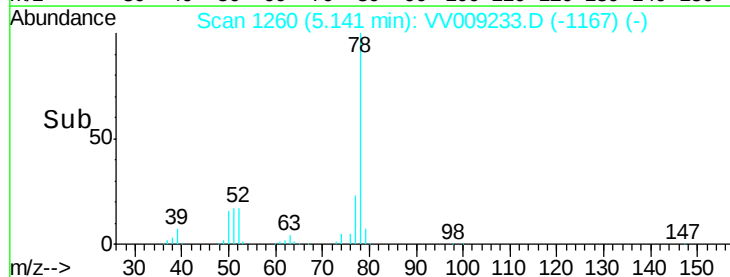
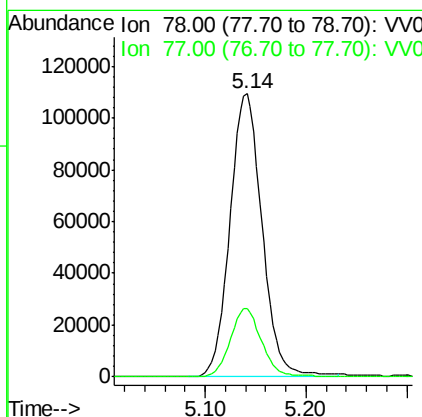
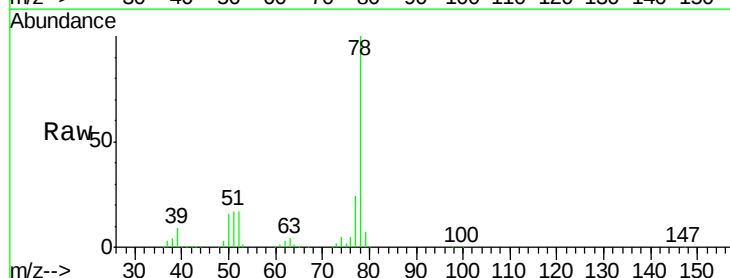
Manual Integrations
APPROVED

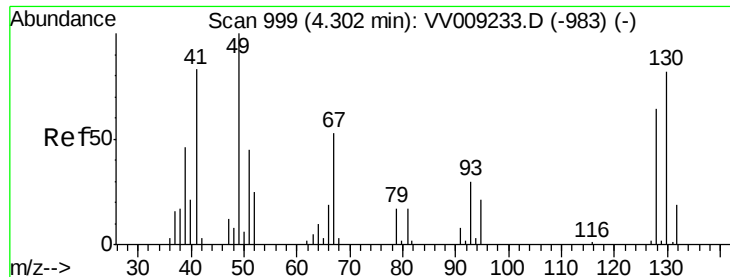
MMDadoda
1/24/2019 11:43:58 AM



#40
Benzene
Concen: 50.646 ug/l
RT: 5.14 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	24.3	19.4	29.2	





#41

Methacrylonitrile

Concen: 48.500 ug/l

RT: 4.30 min Scan# 999

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 41 Resp: 20145

Ion Ratio Lower Upper

41 100

39 56.7 45.4 68.0

67 69.4 55.5 83.3

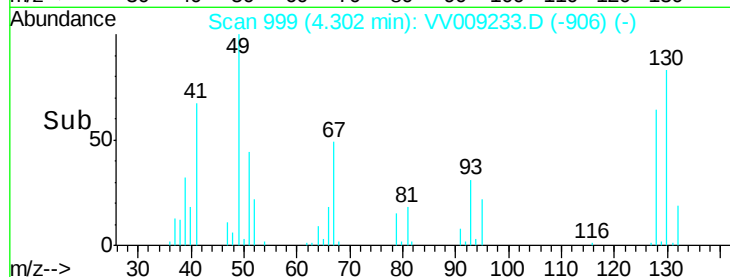
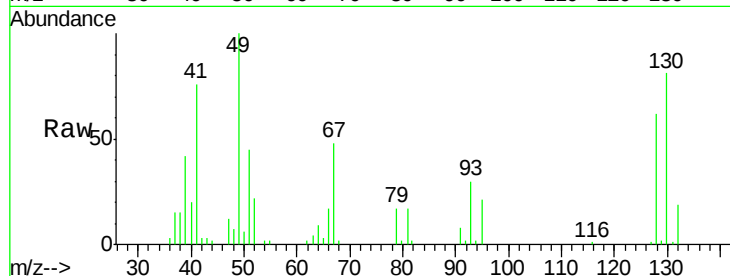
52 31.5 25.2 37.8

Manual Integrations

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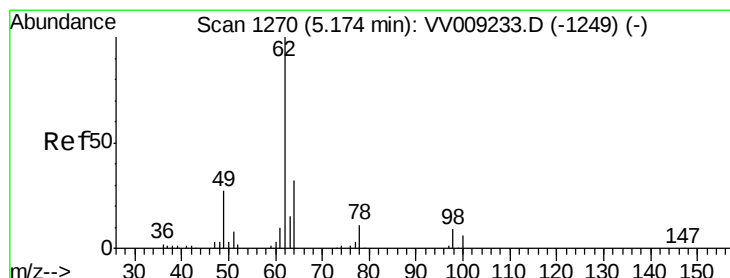
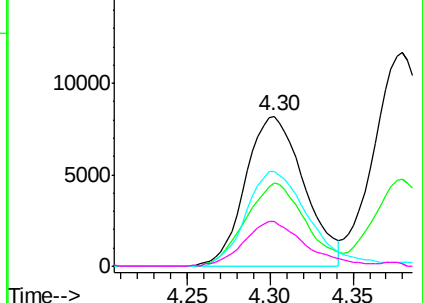


Abundance Ion 41.00 (40.70 to 41.70): VV0

Ion 39.00 (38.70 to 39.70): VV0

Ion 67.00 (66.70 to 67.70): VV0

Ion 52.00 (51.70 to 52.70): VV0



#42

1,2-Dichloroethane

Concen: 46.944 ug/l

RT: 5.17 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VV009233.D

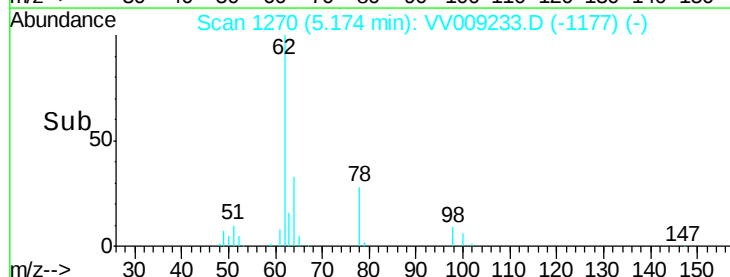
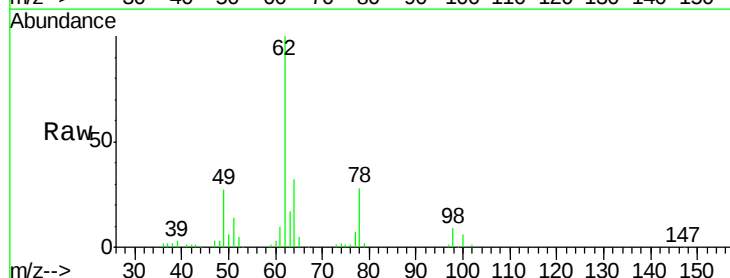
Acq: 22 Jan 2019 13:24

Tgt Ion: 62 Resp: 75131

Ion Ratio Lower Upper

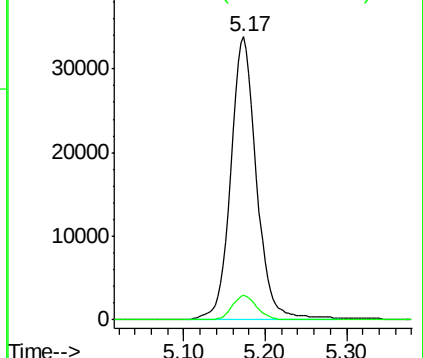
62 100

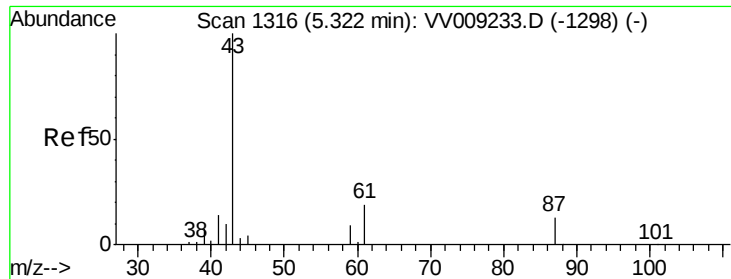
98 8.2 0.0 16.4



Abundance Ion 61.90 (61.60 to 62.60): VV0

Ion 97.90 (97.60 to 98.60): VV0





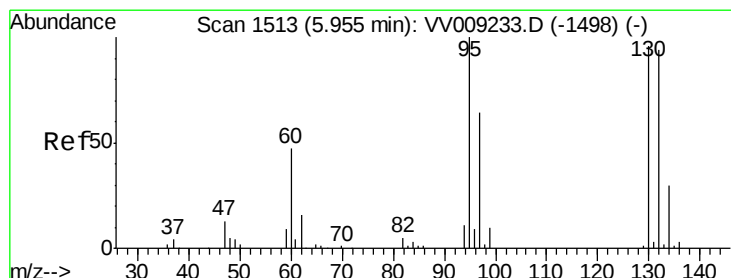
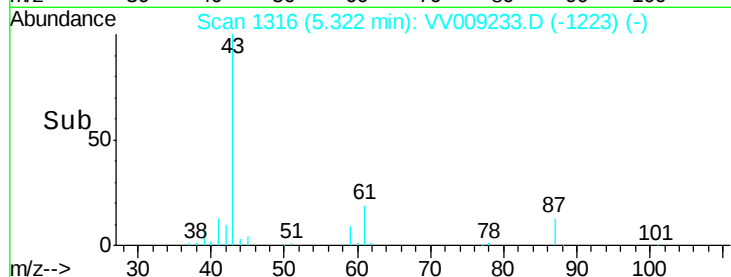
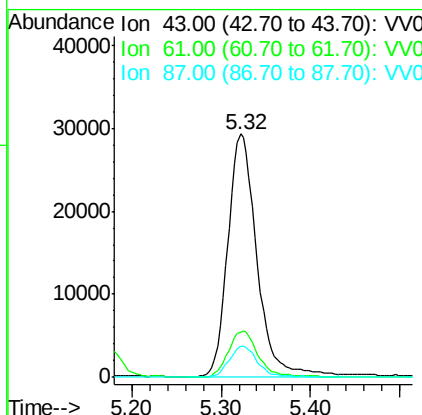
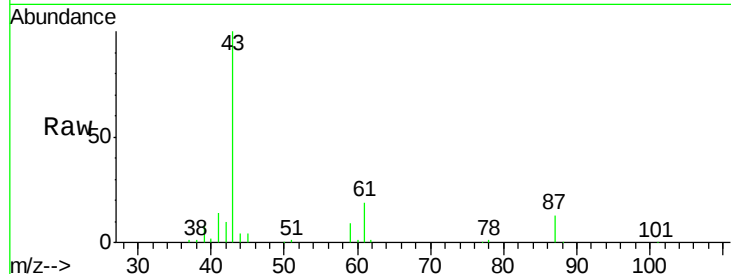
#43
Isopropyl Acetate
Concen: 47.325 ug/l
RT: 5.32 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.4	23.0
87	12.4	9.9	14.9

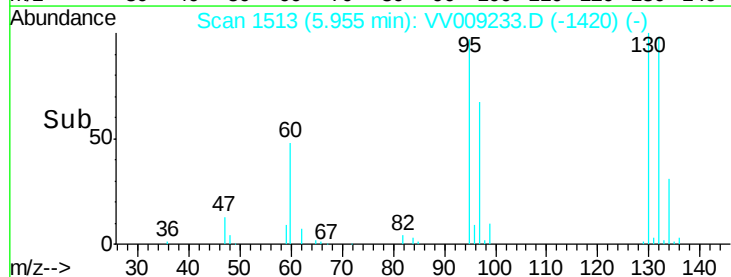
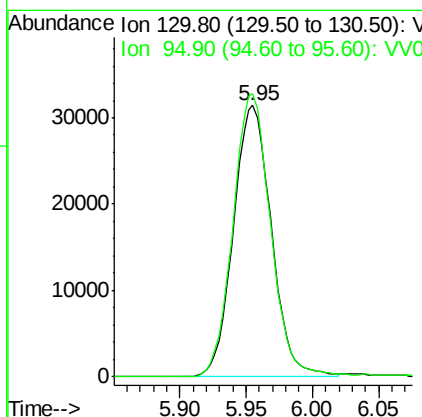
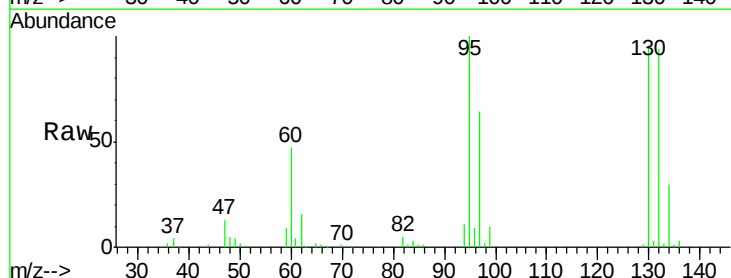
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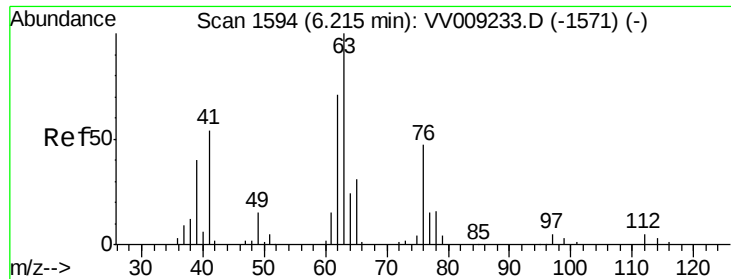
MMDadoda
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#44
Trichloroethene
Concen: 50.774 ug/l
RT: 5.95 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
130	100		
95	104.1	0.0	208.2





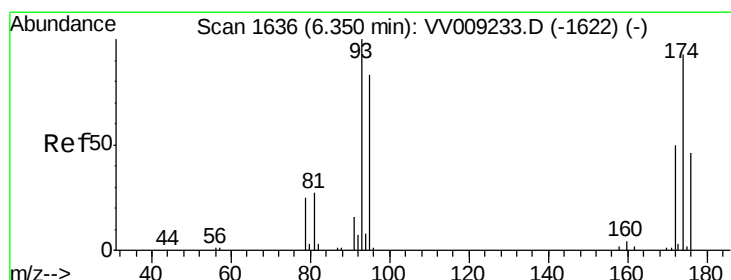
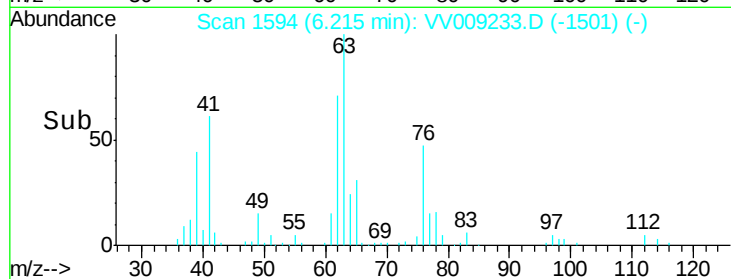
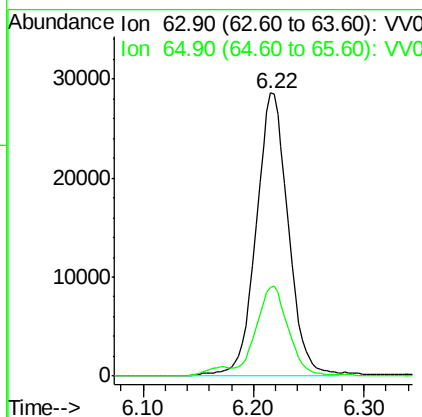
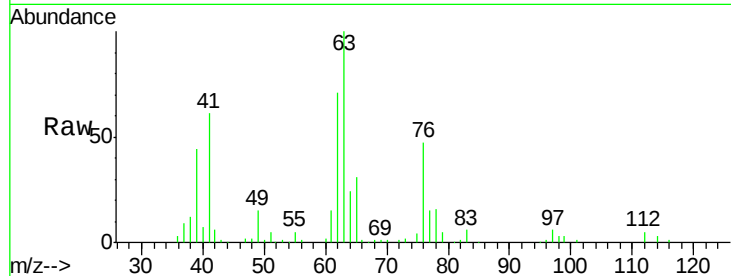
#45
 1,2-Dichloropropane
 Concen: 49.301 ug/l
 RT: 6.22 min Scan# 1594
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion: 63 Resp: 57633
 Ion Ratio Lower Upper
 63 100
 65 31.4 25.1 37.7

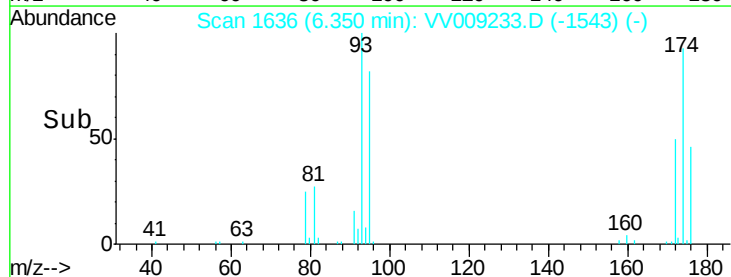
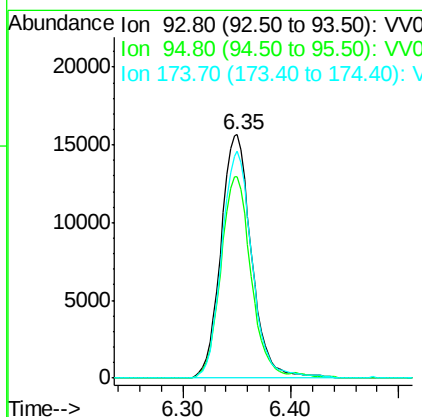
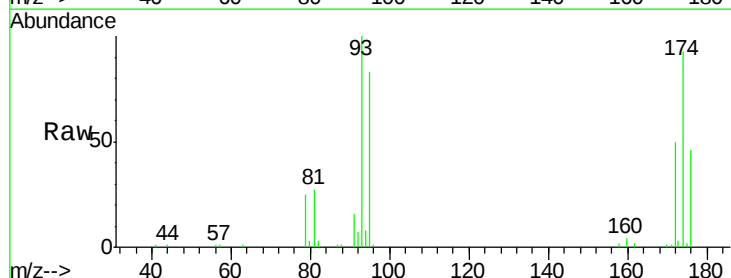
Manual Integrations
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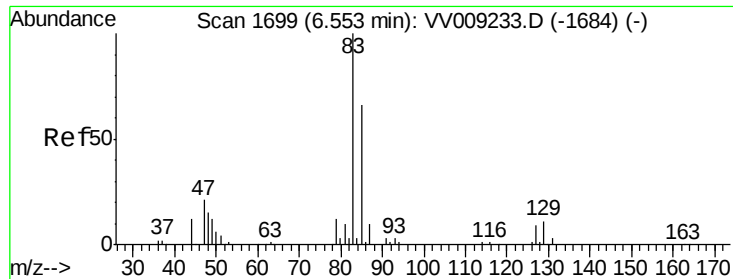
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#46
 Dibromomethane
 Concen: 48.606 ug/l
 RT: 6.35 min Scan# 1636
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion: 93 Resp: 30961
 Ion Ratio Lower Upper
 93 100
 95 80.8 64.6 97.0
 174 92.5 74.0 111.0





#47

Bromodichloromethane

Concen: 47.748 ug/l

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

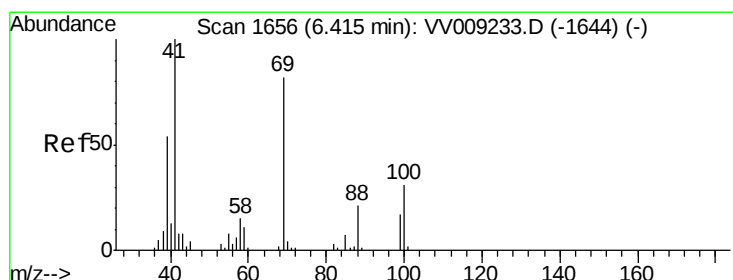
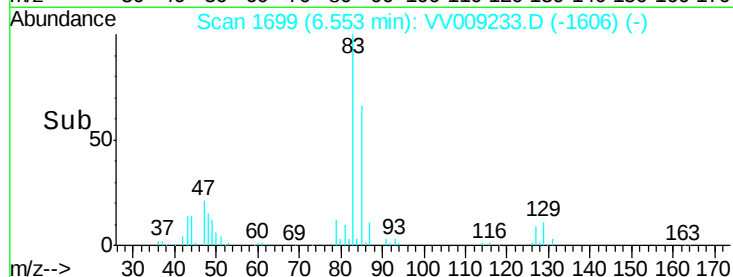
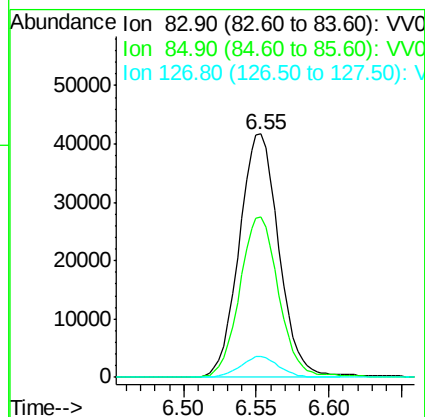
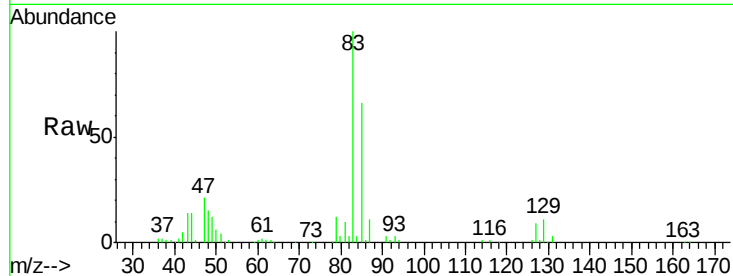
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	79343
Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.6	78.8
127	8.8	7.0	10.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 46.643 ug/l

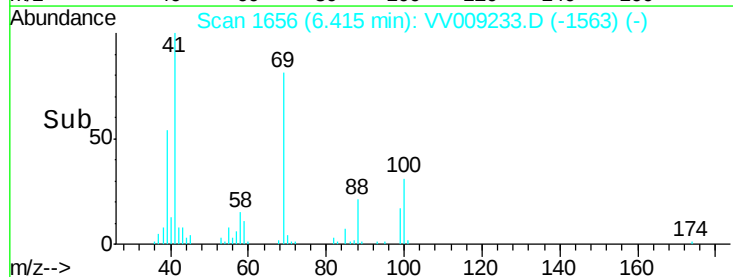
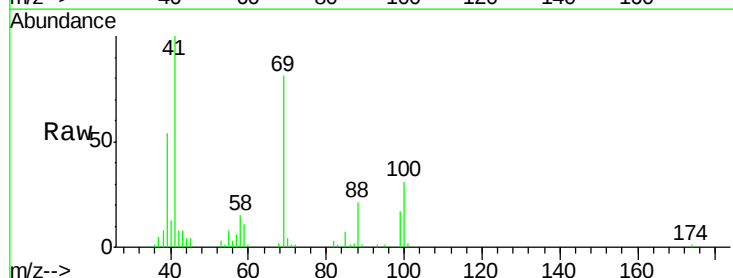
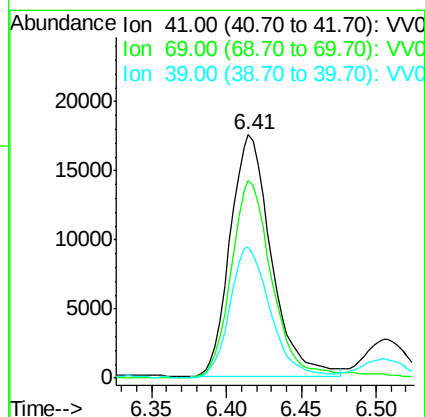
RT: 6.41 min Scan# 1656

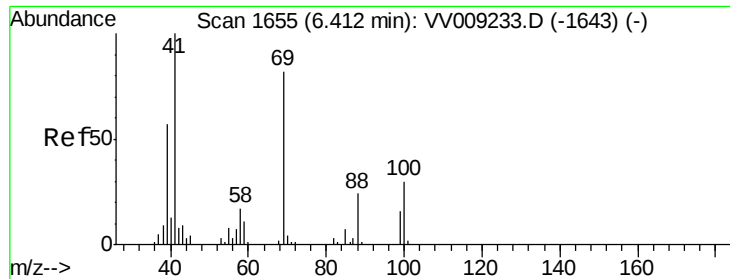
Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Tgt Ion:	41	Resp:	33322
Ion	Ratio	Lower	Upper
41	100		
69	82.2	65.8	98.6
39	54.2	43.4	65.0





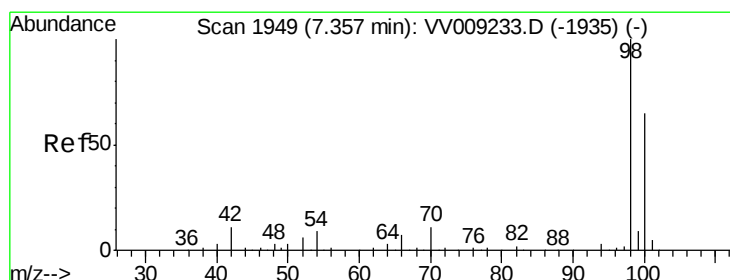
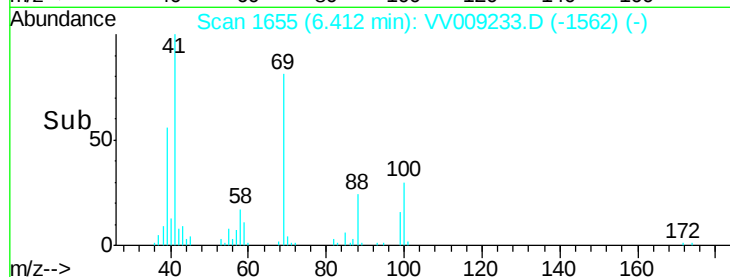
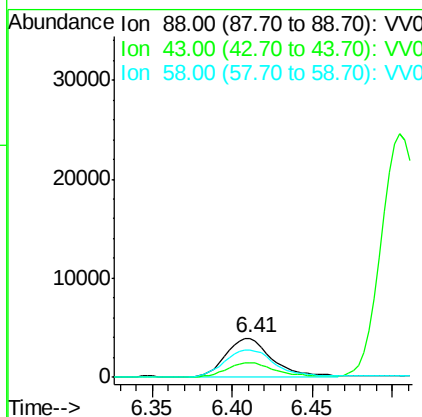
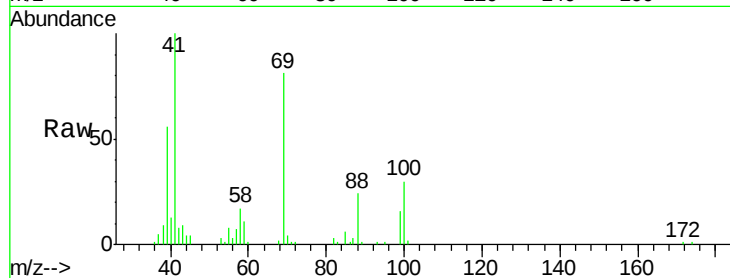
#49
1,4-Dioxane
Concen: 953.144 ug/l
RT: 6.41 min Scan# 1655
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
88	100		
43	39.9	31.9	47.9
58	77.5	62.0	93.0

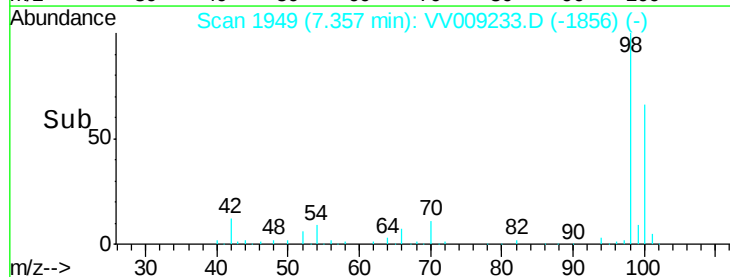
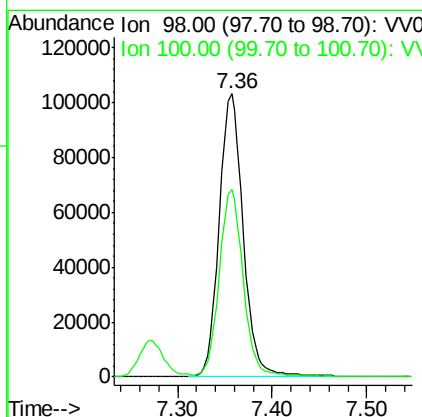
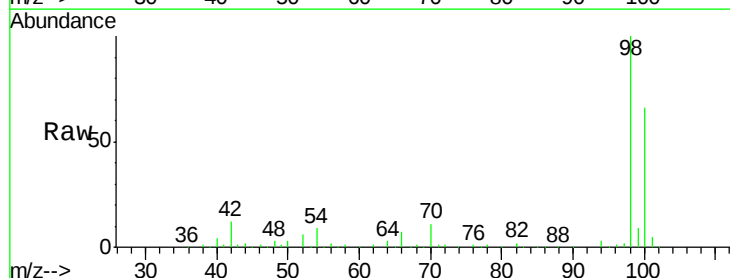
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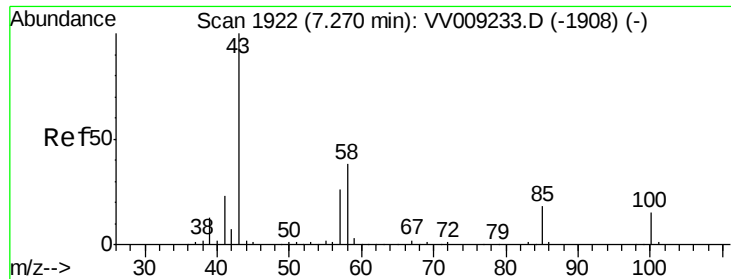
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#50
Toluene-d8
Concen: 45.684 ug/l
RT: 7.36 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 237.795 ug/l

RT: 7.27 min Scan# 1922

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 43 Resp: 167665

Ion Ratio Lower Upper

43 100

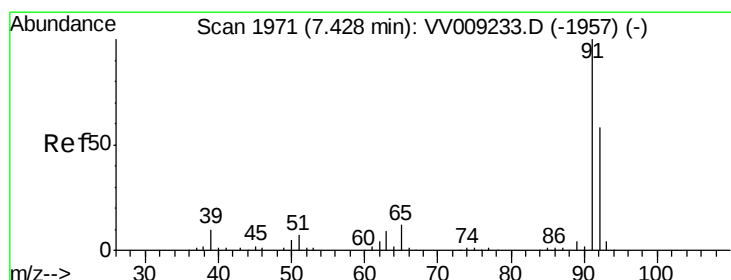
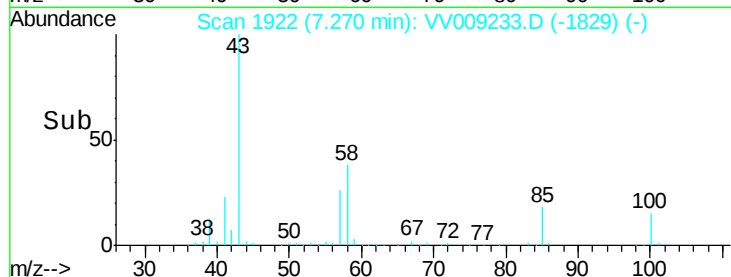
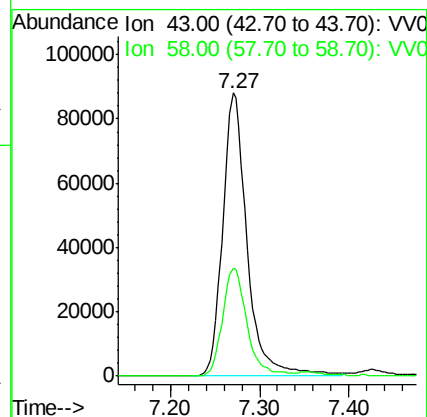
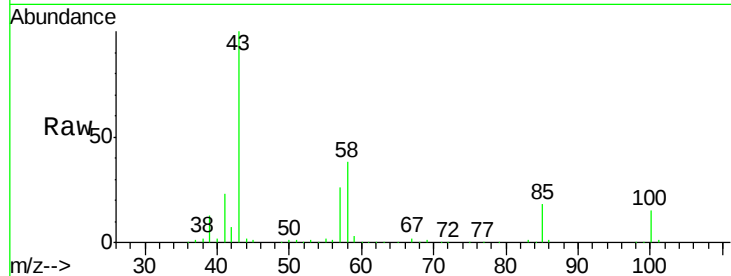
58 38.0 30.4 45.6

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#52

Toluene

Concen: 51.267 ug/l

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV009233.D

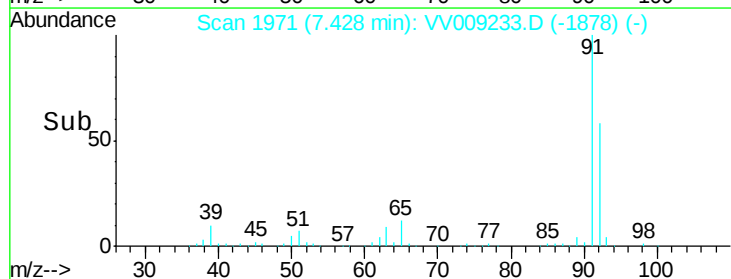
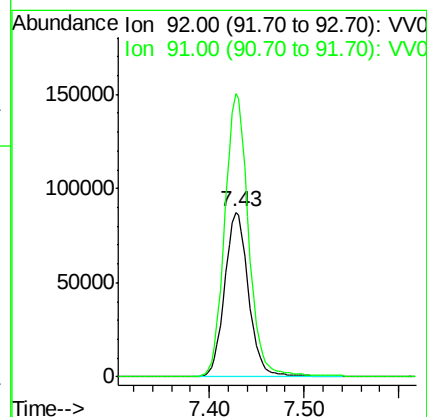
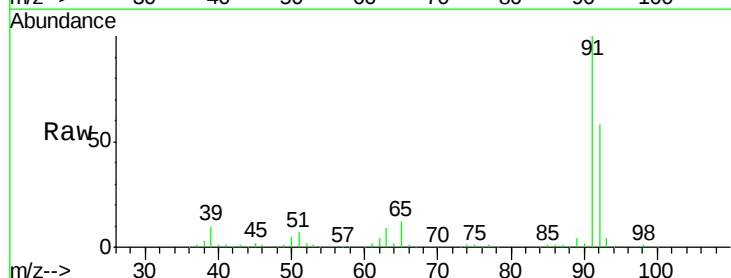
Acq: 22 Jan 2019 13:24

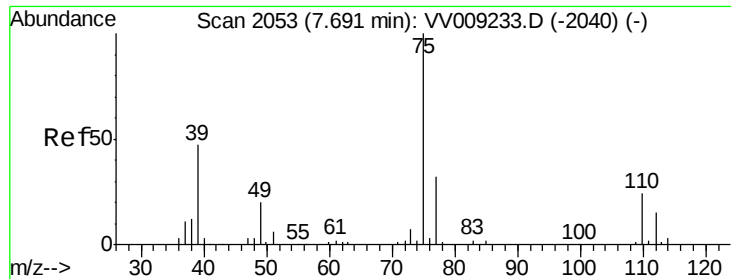
Tgt Ion: 92 Resp: 154360

Ion Ratio Lower Upper

92 100

91 171.5 137.2 205.8





#53

t-1,3-Dichloropropene

Concen: 47.993 ug/l

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Tot Ion: 75 Resp: 77588

Ion Ratio Lower Upper

75 100

77 32.3 25.8 38.8

Instrument :

MSVOA_V

ClientSampleId :

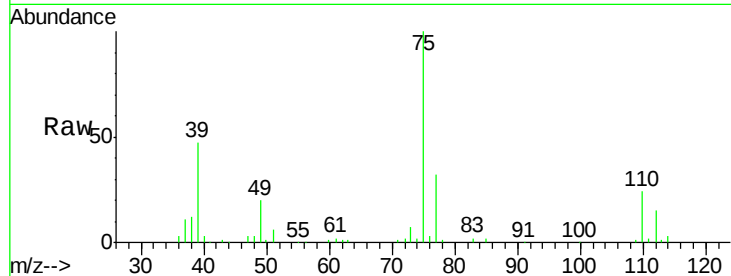
VSTDICCC050

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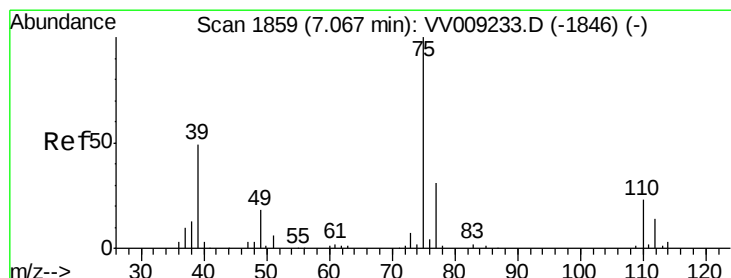
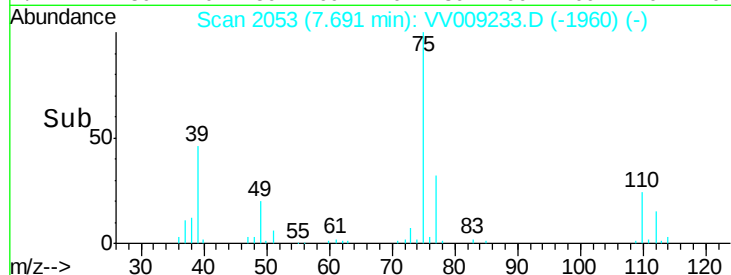
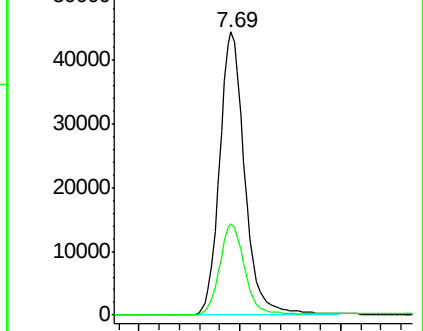
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Abundance Ion 74.90 (74.60 to 75.60): VV0

Ion 76.90 (76.60 to 77.60): VV0



#54

cis-1,3-Dichloropropene

Concen: 49.343 ug/l

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

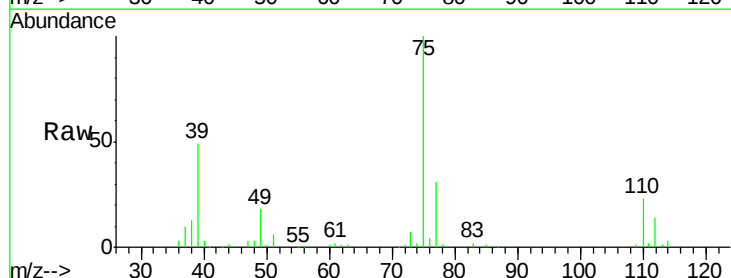
Tgt Ion: 75 Resp: 90381

Ion Ratio Lower Upper

75 100

77 31.4 25.1 37.7

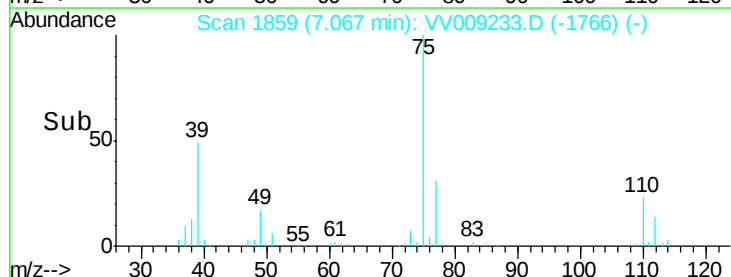
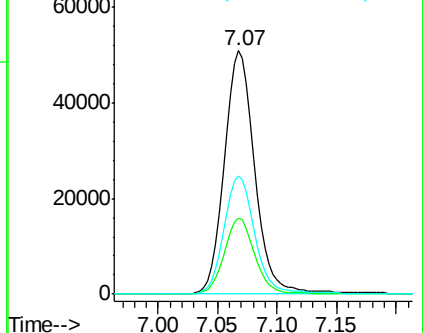
39 48.5 38.8 58.2

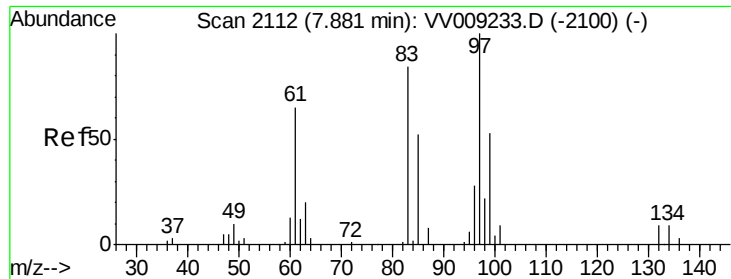


Abundance Ion 74.90 (74.60 to 75.60): VV0

Ion 76.90 (76.60 to 77.60): VV0

Ion 39.00 (38.70 to 39.70): VV0





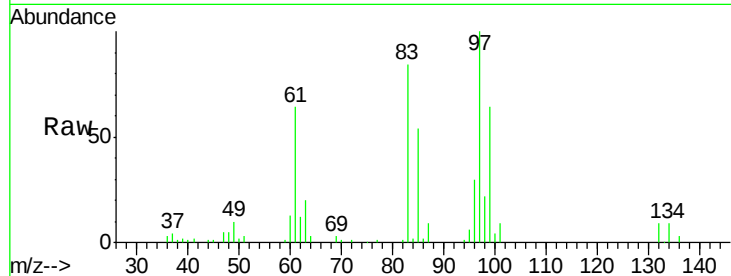
#55
 1,1,2-Trichloroethane
 Concen: 48.044 ug/l
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

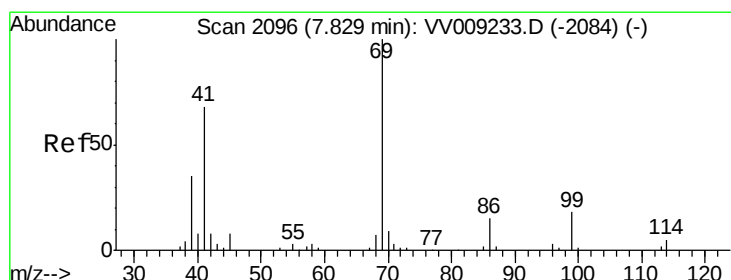
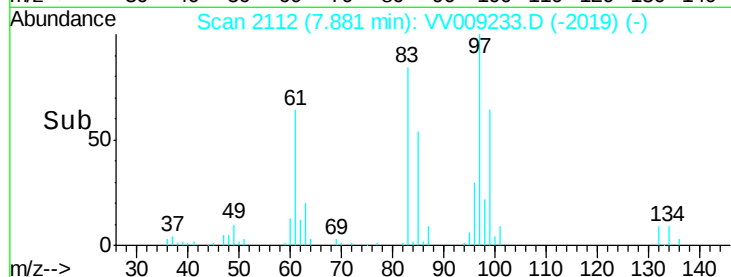
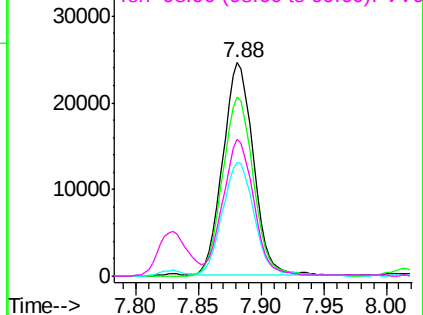
Tot Ion:	97	Resp:	41465
Ion	Ratio	Lower	Upper
97	100		
83	84.2	67.4	101.0
85	53.3	42.6	64.0
99	63.9	51.1	76.7

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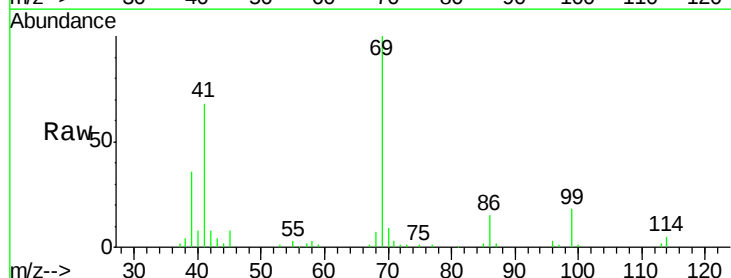


Abundance Ion 96.90 (96.60 to 97.60): VV0
 Ion 82.90 (82.60 to 83.60): VV0
 Ion 84.90 (84.60 to 85.60): VV0
 Ion 98.90 (98.60 to 99.60): VV0

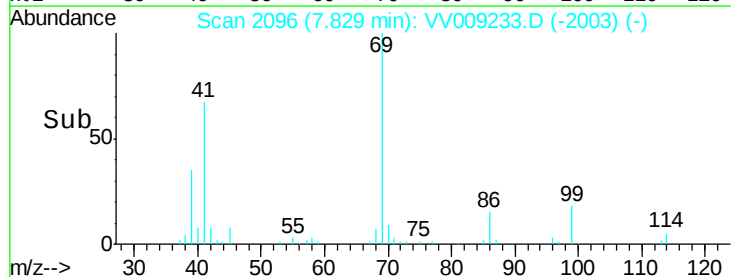
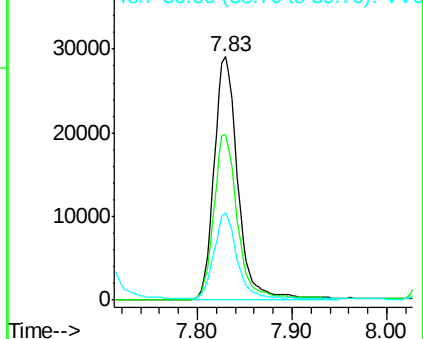


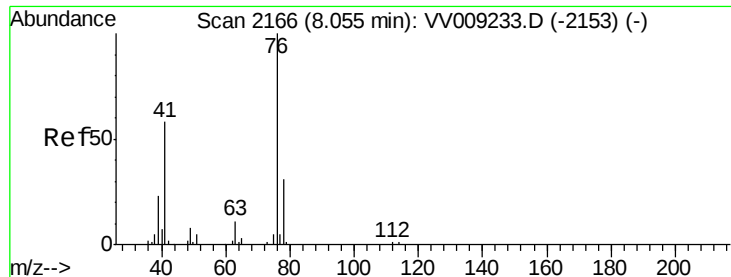
#56
 Ethyl methacrylate
 Concen: 49.039 ug/l
 RT: 7.83 min Scan# 2096
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion:	69	Resp:	51271
Ion	Ratio	Lower	Upper
69	100		
41	67.5	54.0	81.0
39	33.5	26.8	40.2



Abundance Ion 69.00 (68.70 to 69.70): VV0
 Ion 41.00 (40.70 to 41.70): VV0
 Ion 39.00 (38.70 to 39.70): VV0





#57

1,3-Dichloropropane

Concen: 48.384 ug/l

RT: 8.05 min Scan# 2166

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 76 Resp: 76973

Ion Ratio Lower Upper

76 100

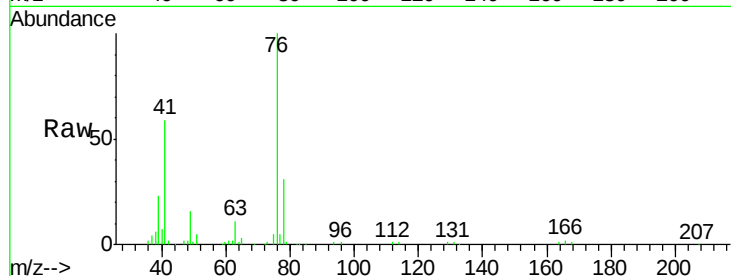
78 31.9 25.5 38.3

Manual Integrations

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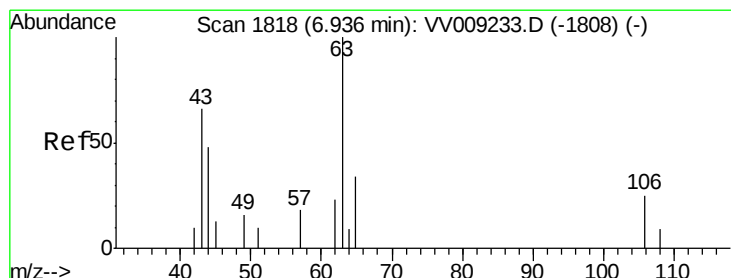
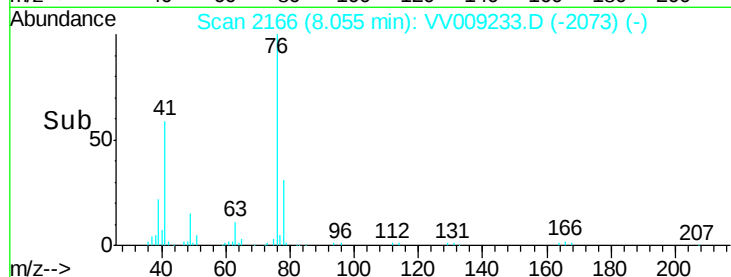
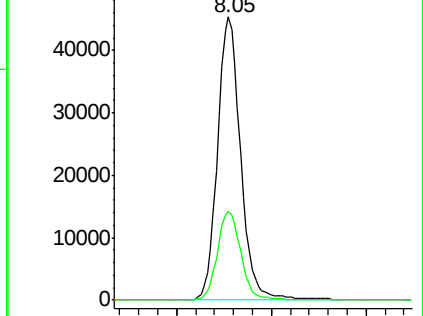
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Abundance Ion 75.90 (75.60 to 76.60): VV0

Ion 77.90 (77.60 to 78.60): VV0



#58

2-Chloroethyl Vinyl ether

Concen: 111.284 ug/l

RT: 6.94 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VV009233.D

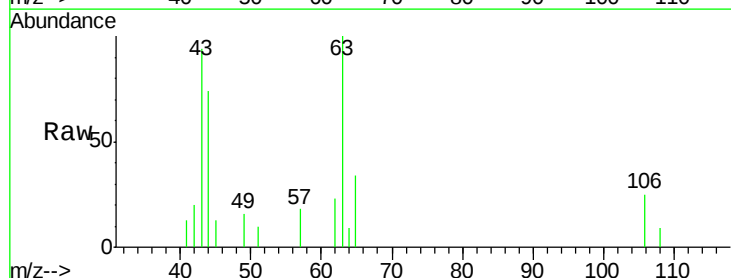
Acq: 22 Jan 2019 13:24

Tgt Ion: 63 Resp: 2239

Ion Ratio Lower Upper

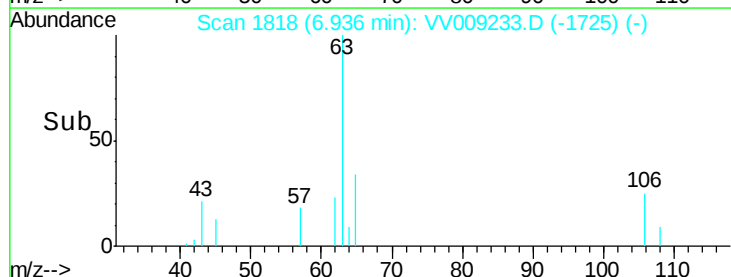
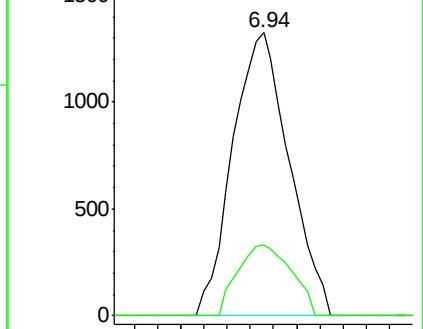
63 100

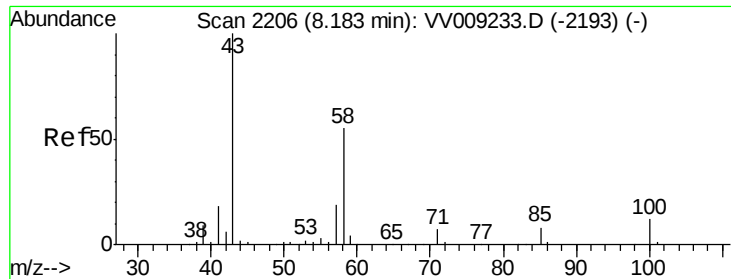
106 23.8 19.0 28.6



Abundance Ion 62.90 (62.60 to 63.60): VV0

Ion 105.90 (105.60 to 106.60): V





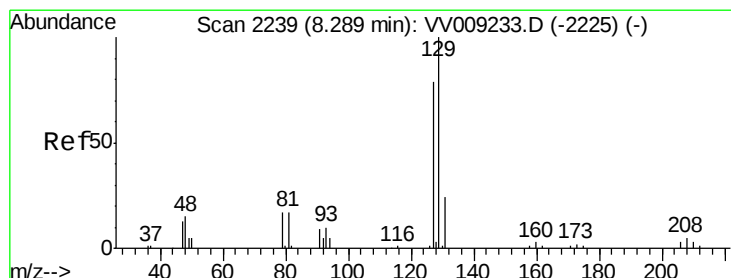
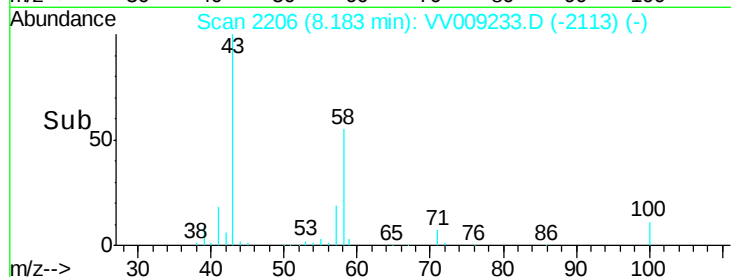
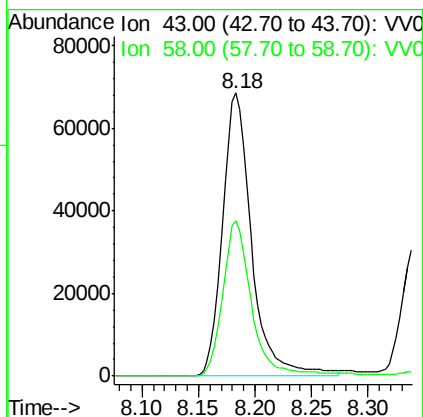
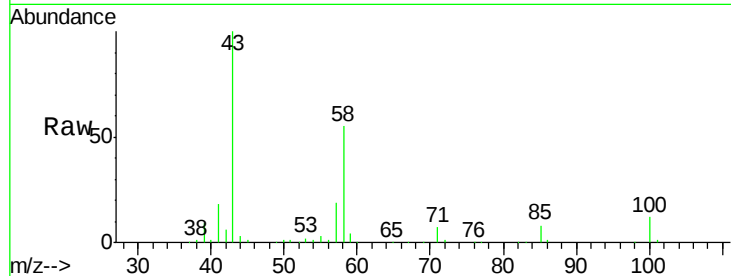
#59
2-Hexanone
Concen: 235.347 ug/l
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	43	Resp	122997
Ion Ratio	43	100	
Lower	58	55.0	27.5
Upper			82.5

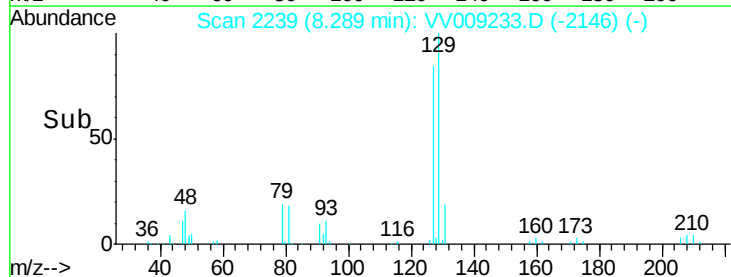
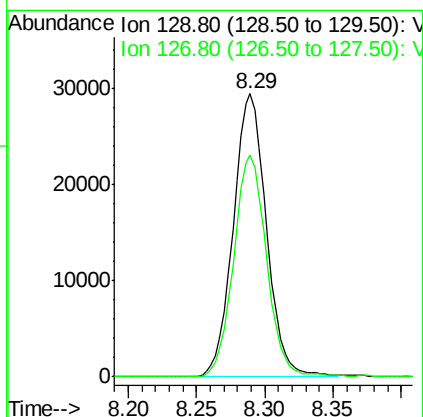
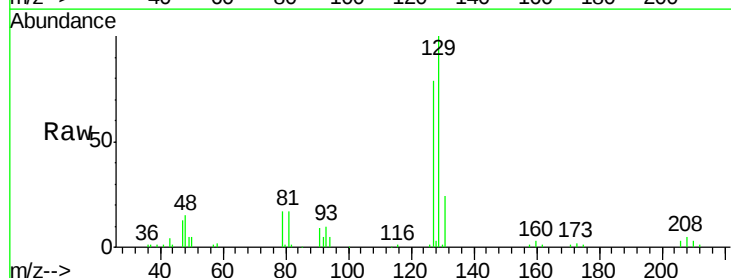
Manual Integrations
APPROVED

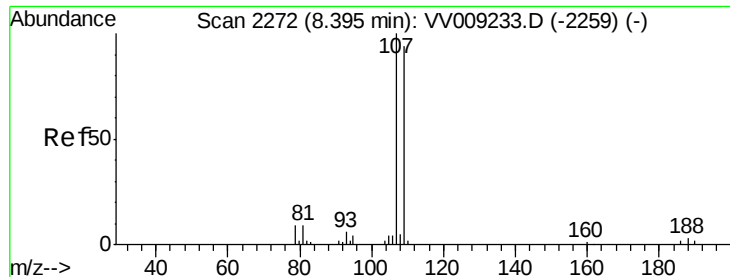
MMDadoda
1/24/2019 11:43:58 AM



#60
Dibromochloromethane
Concen: 48.448 ug/l
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	129	Resp	49787
Ion Ratio	129	100	
Lower	127	77.6	38.8
Upper			116.4





#61

1,2-Dibromoethane

Concen: 48.439 ug/l

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion:107 Resp: 41428

Ion Ratio Lower Upper

107 100

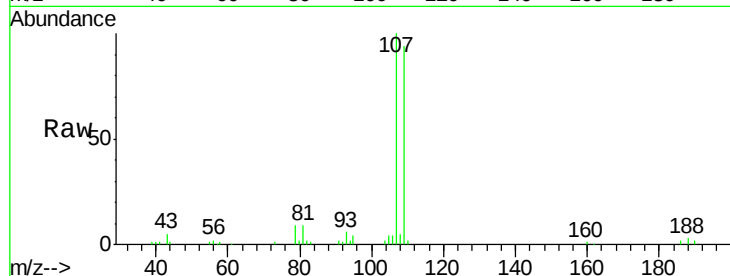
109 95.2 76.2 114.2

Manual Integrations

APPROVED

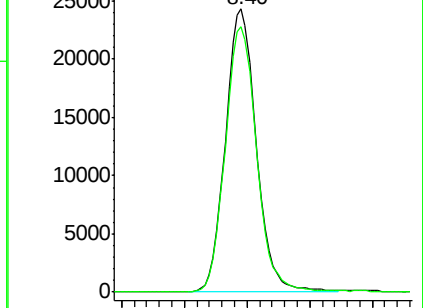
MMDadoda

1/24/2019 11:43:58 AM

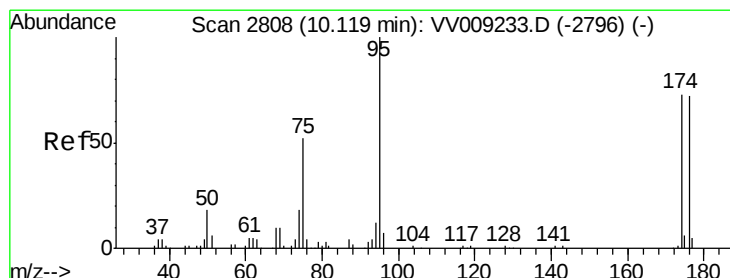
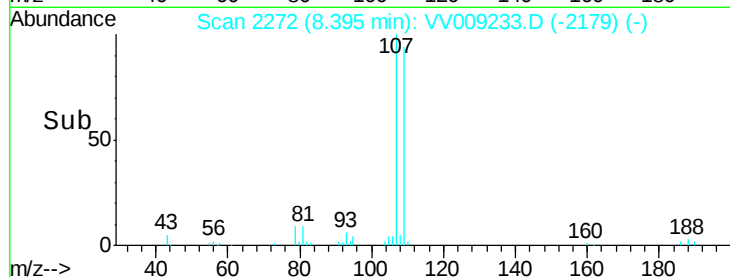


Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



Time--> 8.30 8.35 8.40 8.45 8.50



#62

4-Bromofluorobenzene

Concen: 43.396 ug/l

RT: 10.12 min Scan# 2808

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

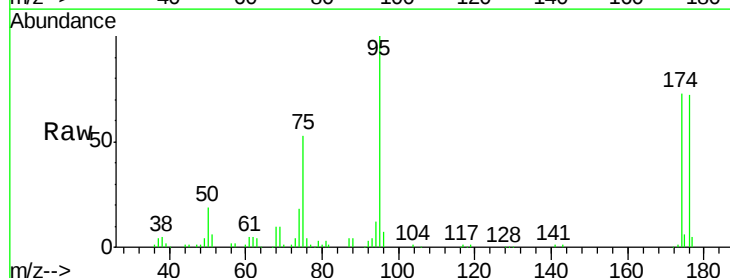
Tgt Ion: 95 Resp: 66692

Ion Ratio Lower Upper

95 100

174 74.1 0.0 148.2

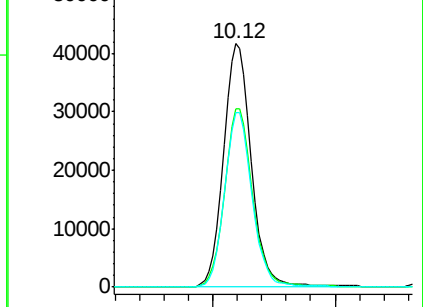
176 71.5 0.0 143.0



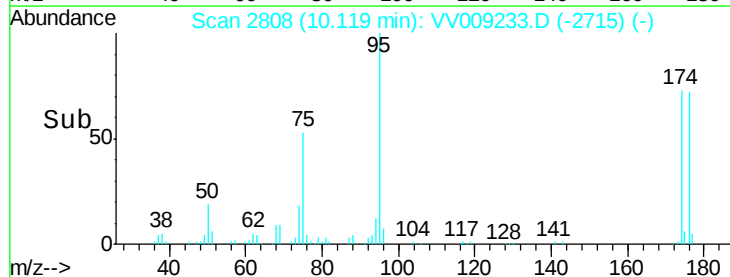
Abundance Ion 94.90 (94.60 to 95.60): VV0

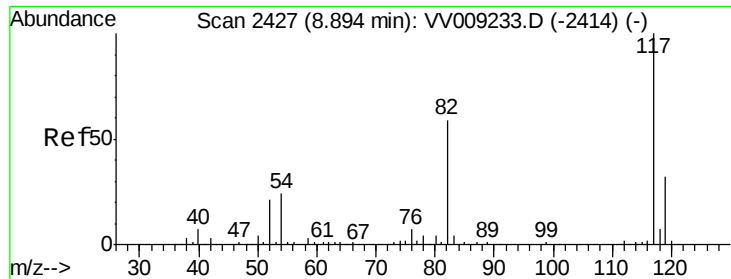
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time--> 10.10 10.20





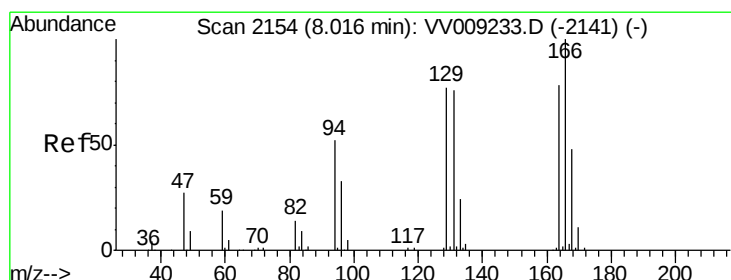
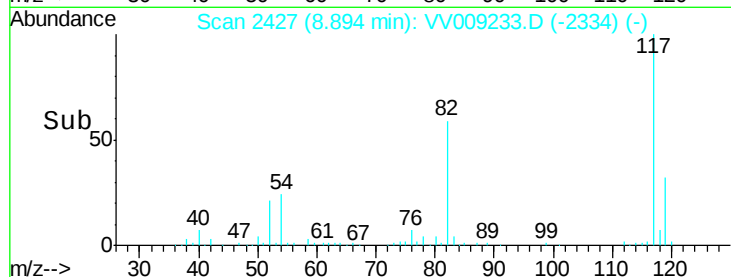
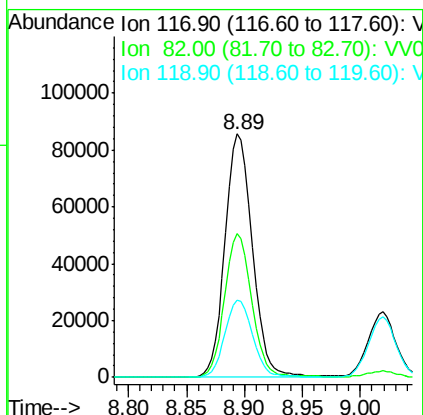
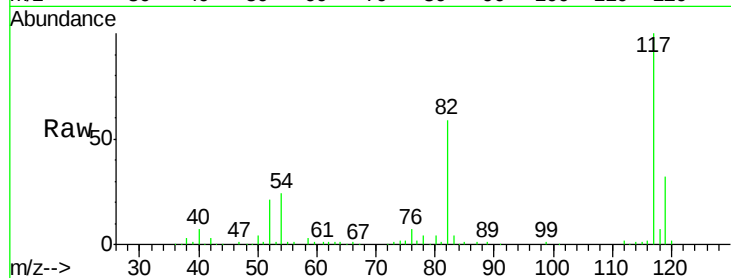
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.89 min Scan# 2427
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.0	70.6
119	31.8	25.4	38.2

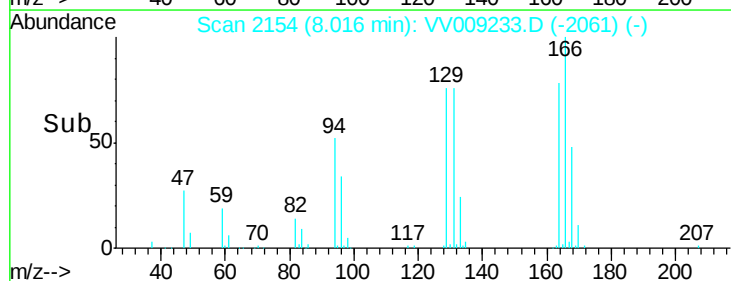
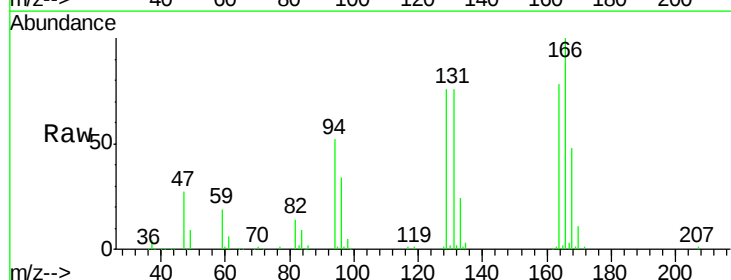
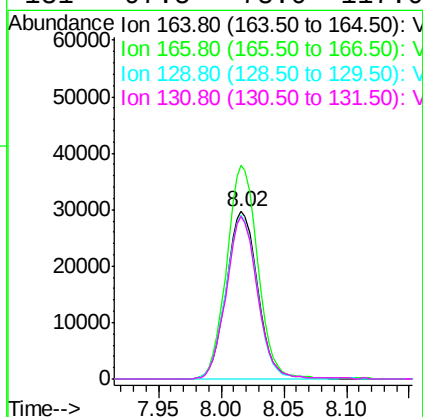
Manual Integrations
APPROVED

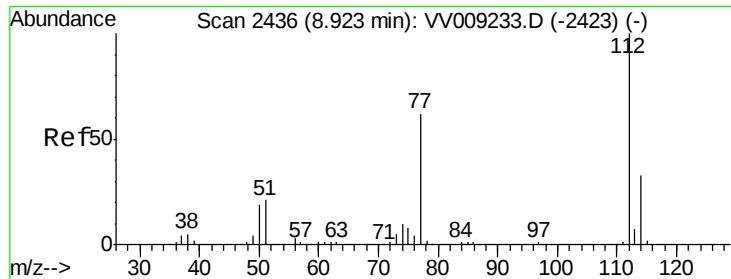
MMDadoda
1/24/2019 11:43:58 AM



#64
Tetrachloroethene
Concen: 53.954 ug/l
RT: 8.02 min Scan# 2154
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.6	102.1	153.1
129	97.6	78.1	117.1
131	97.5	78.0	117.0





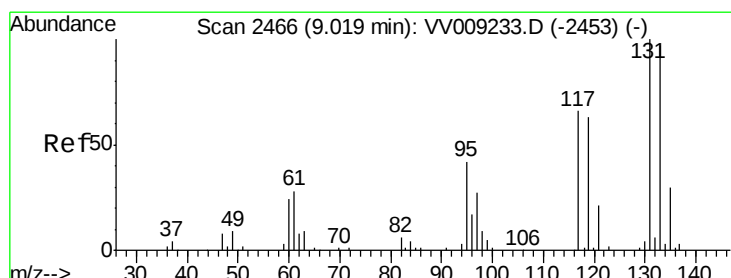
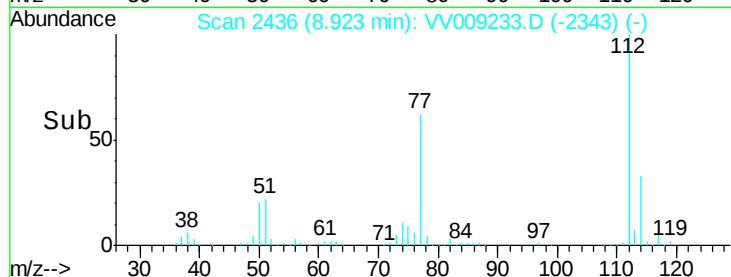
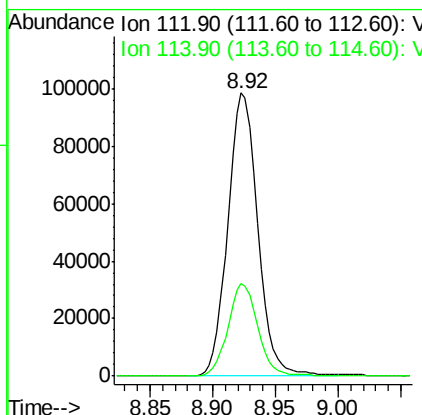
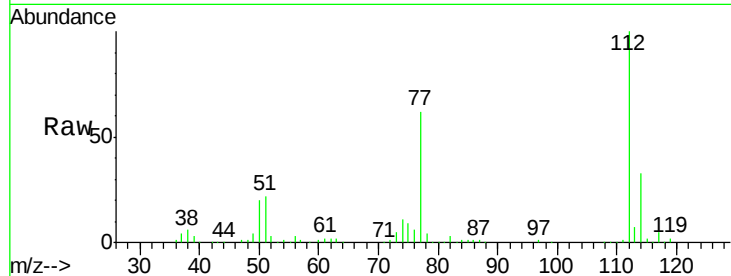
#65
Chlorobenzene
Concen: 50.946 ug/l
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion:112 Resp: 163754
Ion Ratio Lower Upper
112 100
114 32.5 26.0 39.0

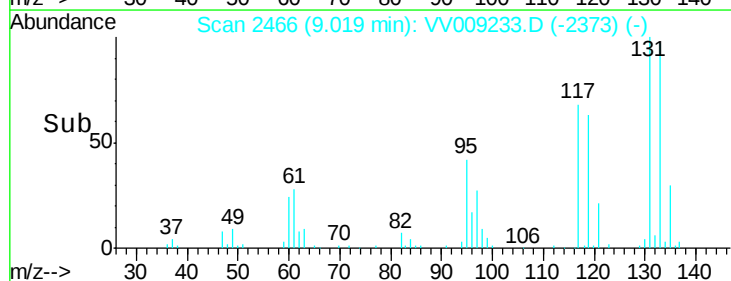
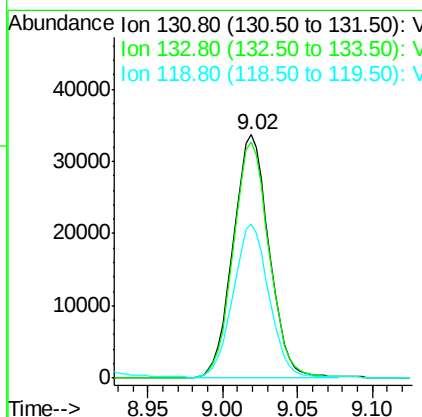
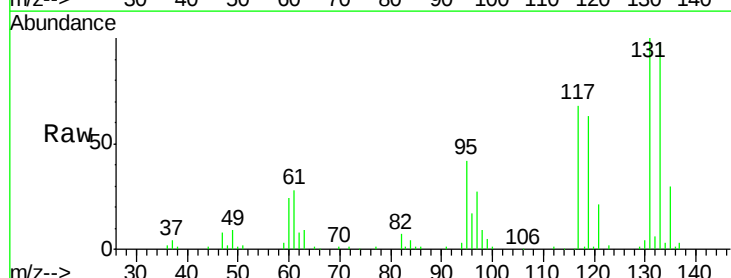
Manual Integrations
APPROVED

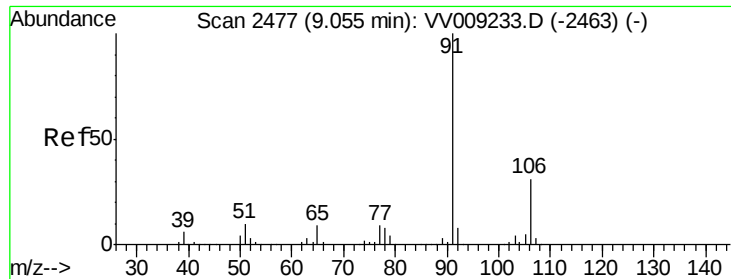
MMDadoda
1/24/2019 11:43:58 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 51.241 ug/l
RT: 9.02 min Scan# 2466
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion:131 Resp: 56597
Ion Ratio Lower Upper
131 100
133 96.6 48.3 144.9
119 62.4 31.2 93.6





#67

Ethyl Benzene

Concen: 52.465 ug/l

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion: 91 Resp: 299576

Ion Ratio Lower Upper

91 100

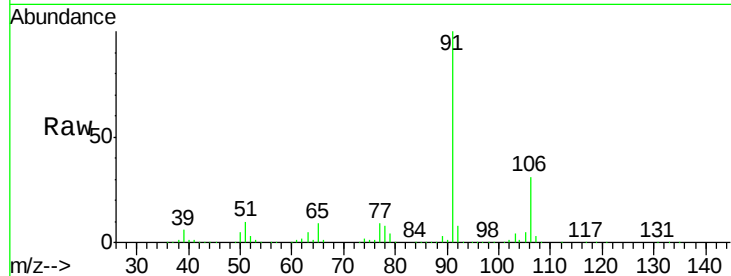
106 30.8 24.6 37.0

Manual Integrations

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1/24/2019 11:43:58 AM



Abundance Ion 91.00 (90.70 to 91.70): VV009233.D (-2463) (-)

Ion 106.00 (105.70 to 106.70): VV009233.D (-2463) (-)

300000

250000

200000

150000

100000

50000

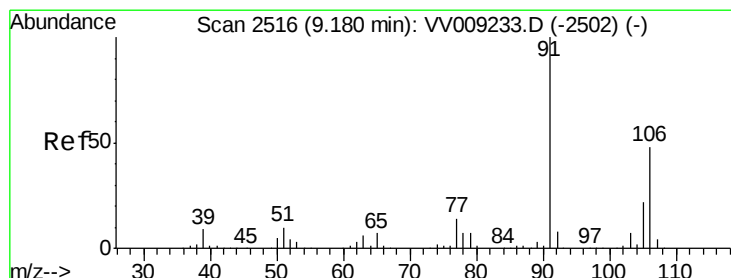
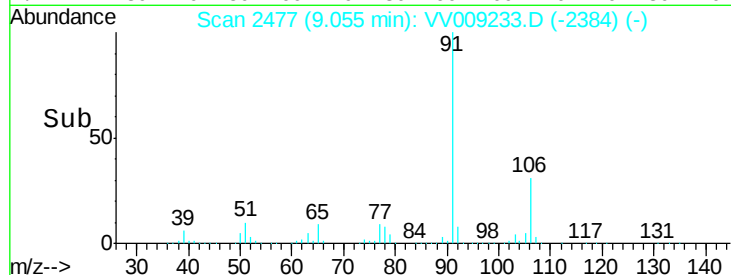
0

9.05

9.10

9.15

Time-->



#68

m/p-Xylenes

Concen: 107.031 ug/l

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV009233.D

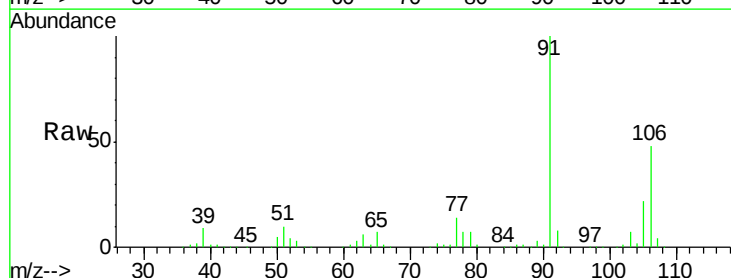
Acq: 22 Jan 2019 13:24

Tgt Ion: 106 Resp: 229306

Ion Ratio Lower Upper

106 100

91 208.9 167.1 250.7



Abundance Ion 106.00 (105.70 to 106.70): VV009233.D (-2502) (-)

Ion 91.00 (90.70 to 91.70): VV009233.D (-2502) (-)

300000

250000

200000

150000

100000

50000

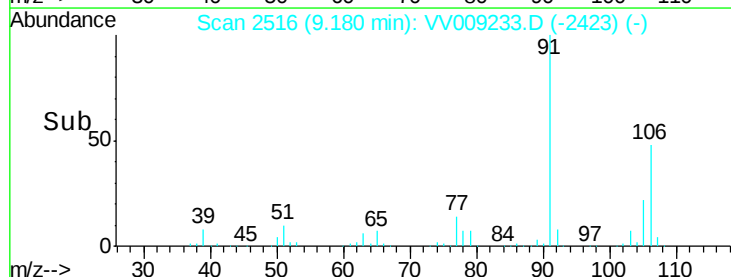
0

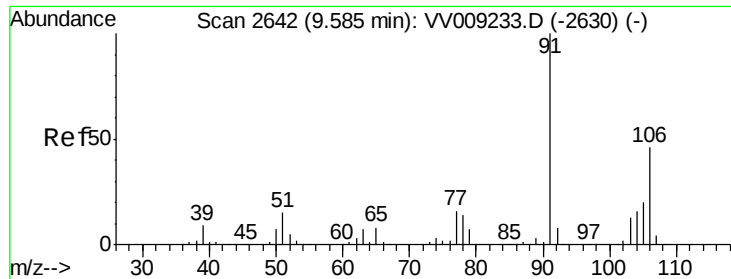
9.18

9.20

9.30

Time-->





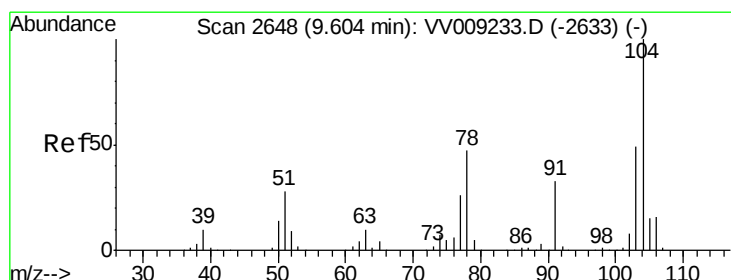
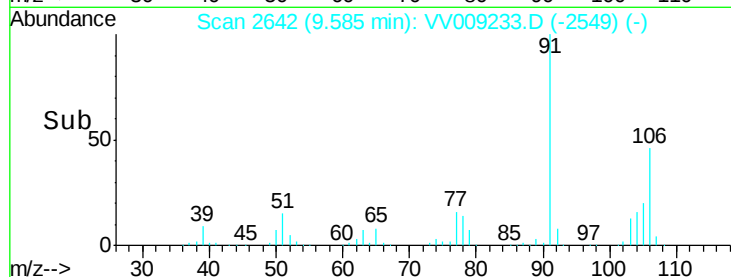
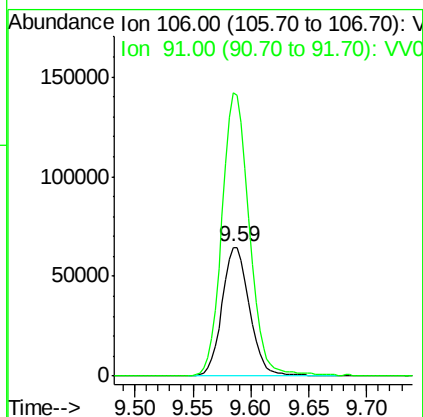
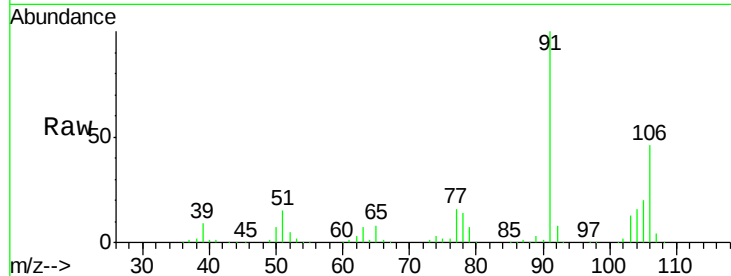
#69
o-Xylene
Concen: 53.293 ug/l
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	218.5	109.3	327.8	

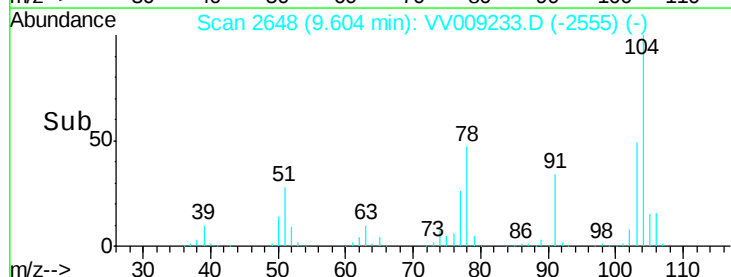
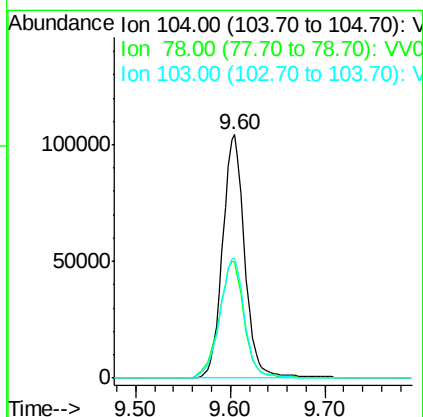
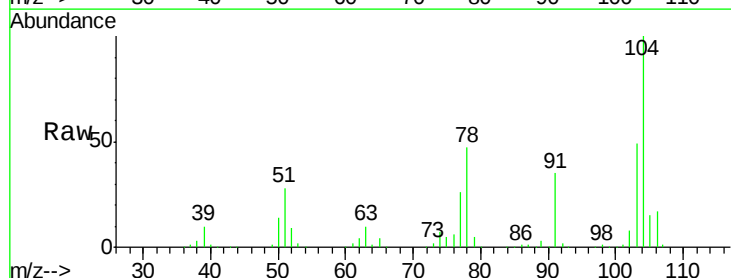
Manual Integrations
APPROVED

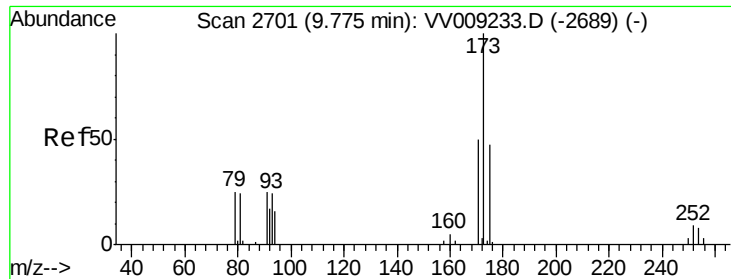
MMDadoda
1/24/2019 11:43:58 AM



#70
Styrene
Concen: 52.425 ug/l
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	53.9	43.1	64.7	
103	54.8	43.8	65.8	





#71

Bromoform

Concen: 51.058 ug/l

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

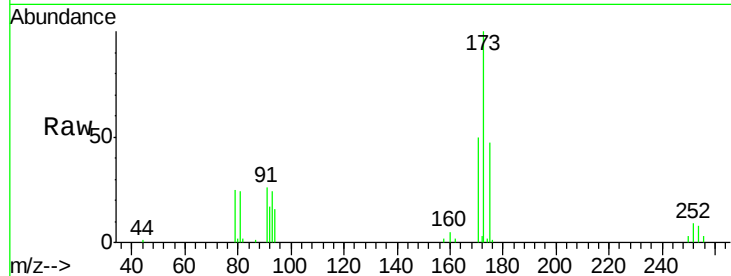
ClientSampleId :

VSTDICCC050

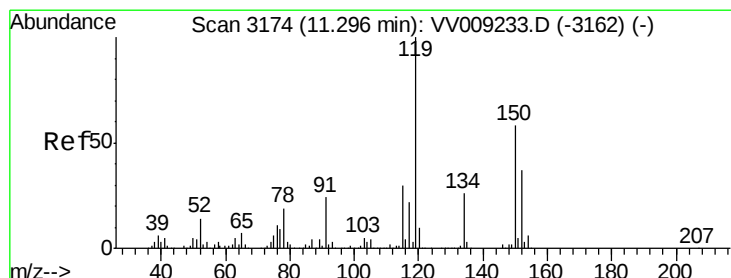
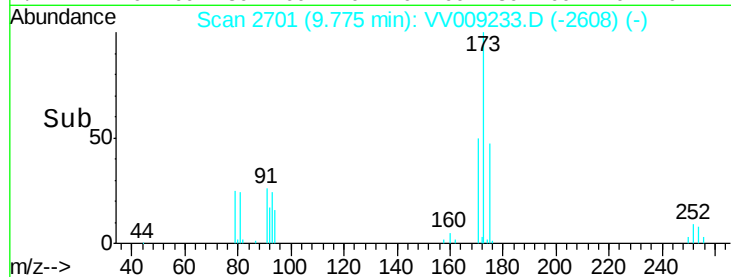
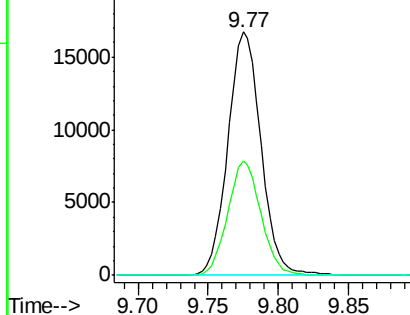
Tot Ion	Ratio	Lower	Upper
173	100		
175	46.7	23.4	70.0
254	0.0	0.0	0.0

Manual Integrations
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1/24/2019 11:43:58 AM



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

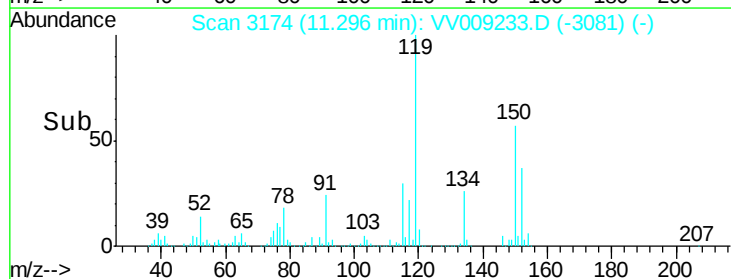
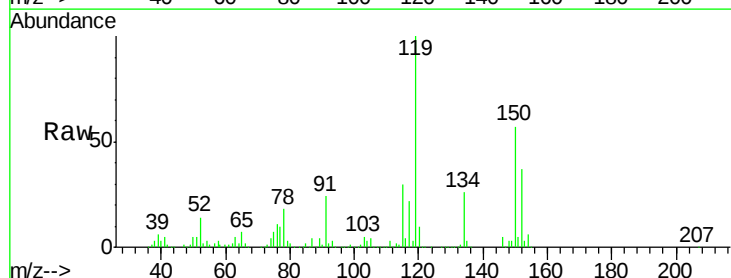
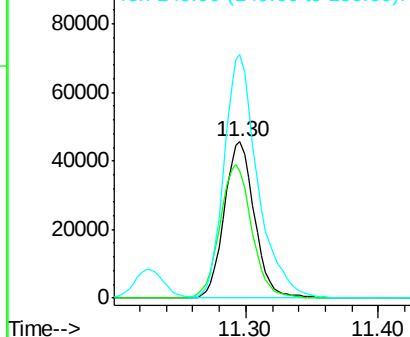
Delta R.T. 0.00 min

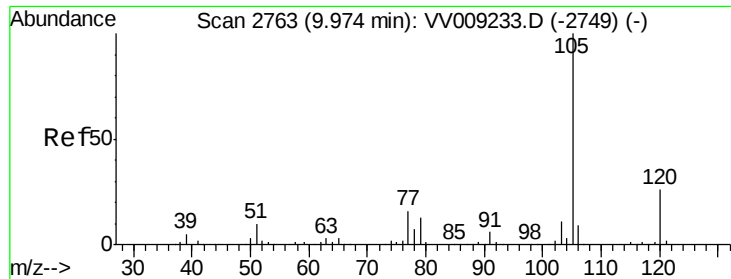
Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	89.9	45.0	134.8
150	173.2	0.0	346.4

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





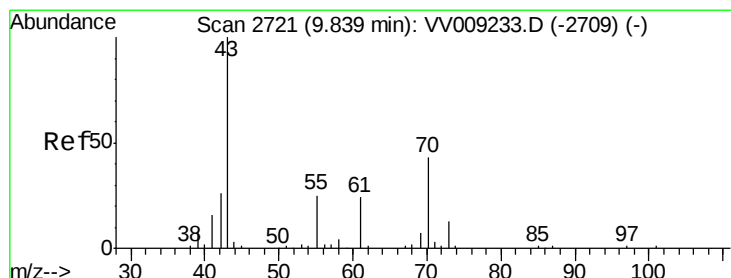
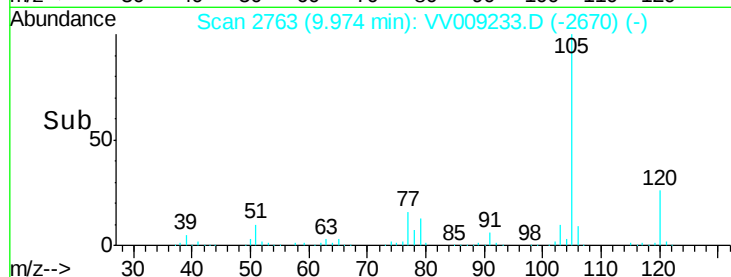
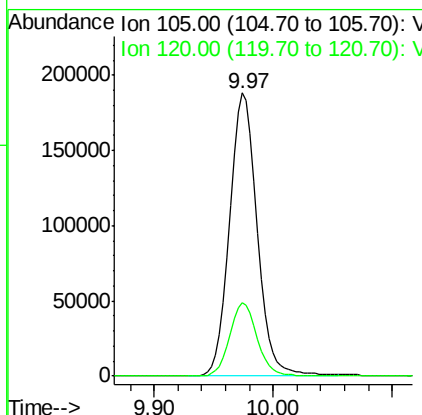
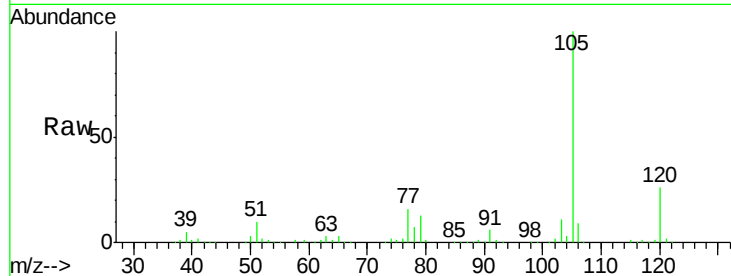
#73
Isopropylbenzene
Concen: 52.961 ug/l
RT: 9.97 min Scan# 2763
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.9	38.7

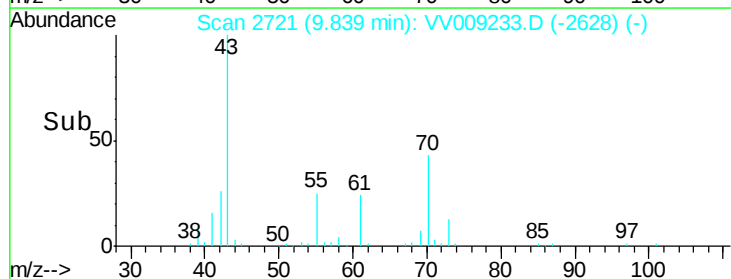
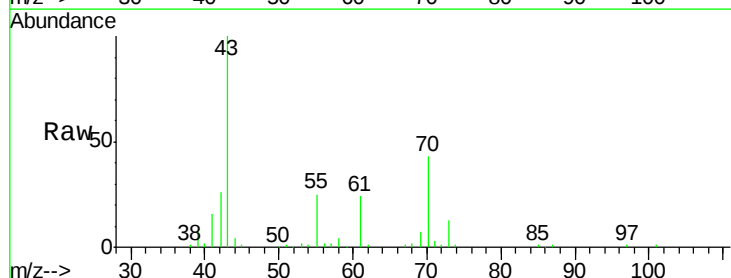
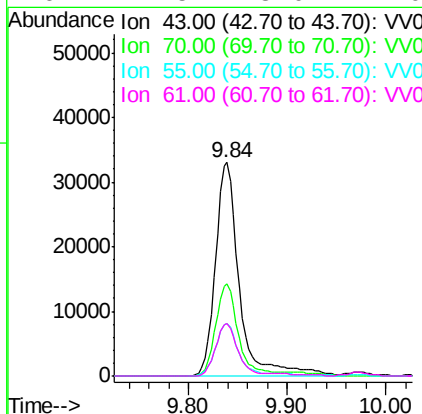
Manual Integrations
APPROVED

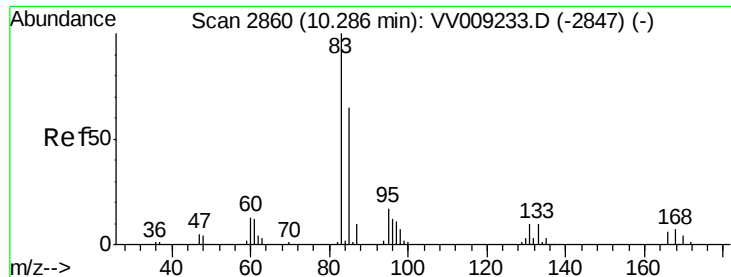
MMDadoda
1/24/2019 11:43:58 AM



#74
N-ethyl acetate
Concen: 46.511 ug/l
RT: 9.84 min Scan# 2721
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
43	100		
70	41.3	33.0	49.6
55	23.4	18.7	28.1
61	22.5	18.0	27.0





#75

1,1,2,2-Tetrachloroethane

Concen: 48.457 ug/l

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

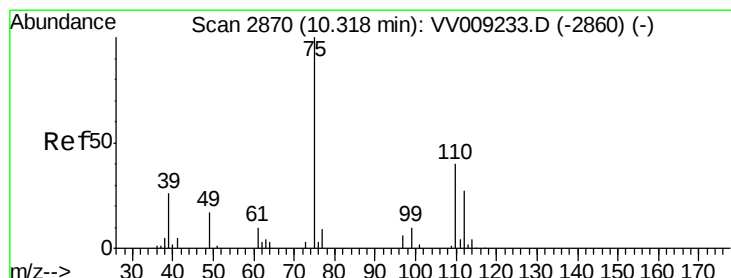
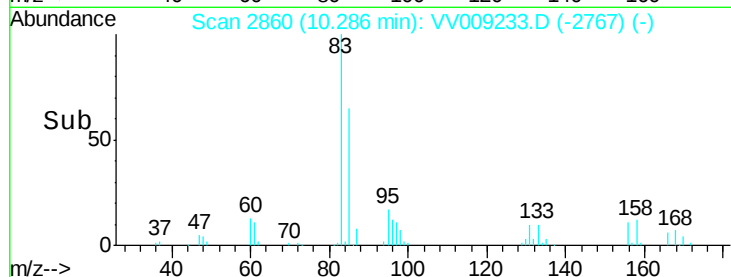
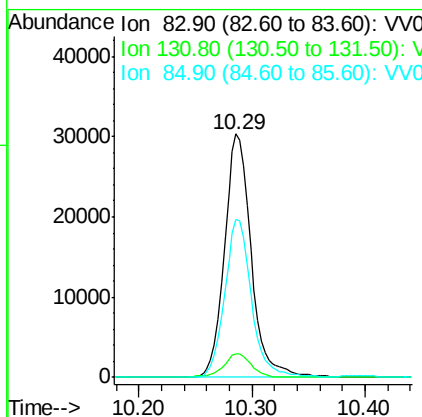
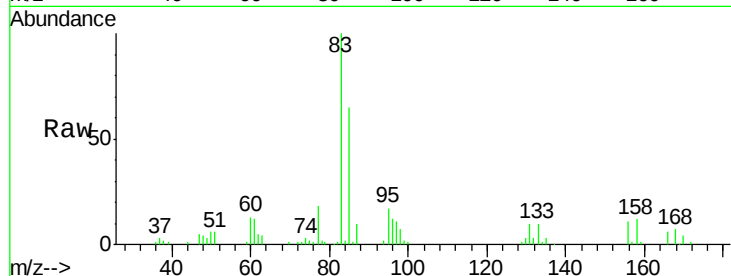
ClientSampleId :

VSTDICCC050

Tot Ion:	83	Resp:	49714
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.3
85	65.3	32.6	98.0

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#76

1,2,3-Trichloropropane

Concen: 48.074 ug/l m

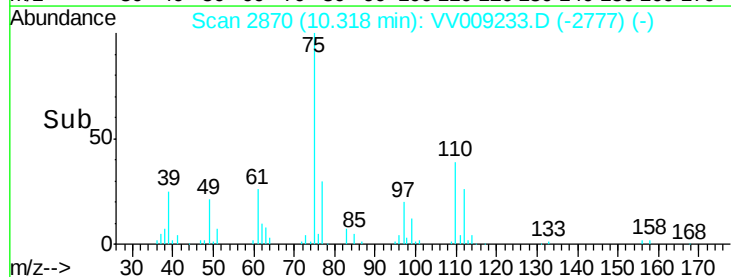
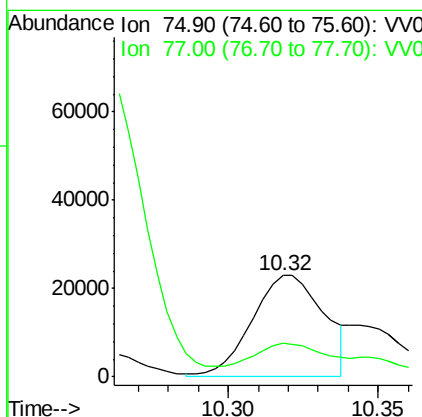
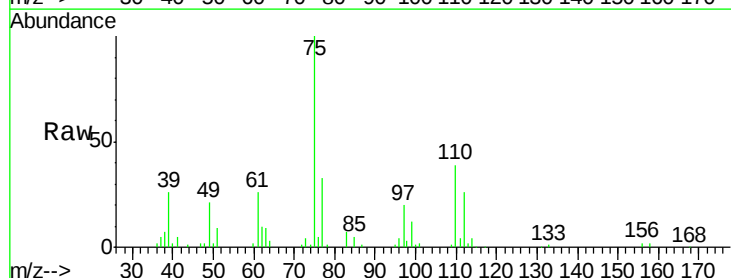
RT: 10.32 min Scan# 2870

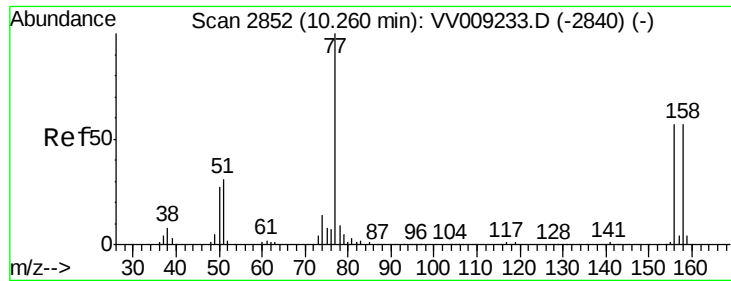
Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Tgt Ion:	75	Resp:	38375
Ion	Ratio	Lower	Upper
75	100		
77	49.2	24.6	73.8





#77

Bromobenzene

Concen: 49.488 ug/l

RT: 10.26 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

ClientSampleId :

VSTDICCC050

Tot Ion:156 Resp: 62947

Ion Ratio Lower Upper

156 100

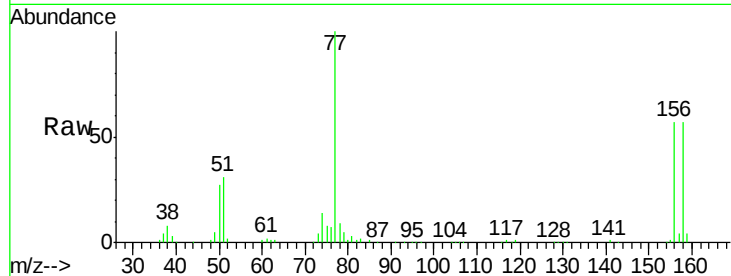
77 172.0 86.0 258.0

158 99.5 49.8 149.3

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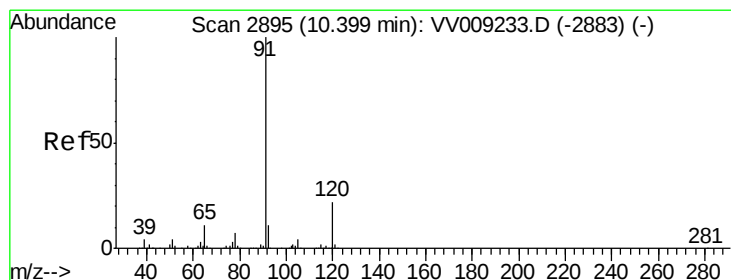
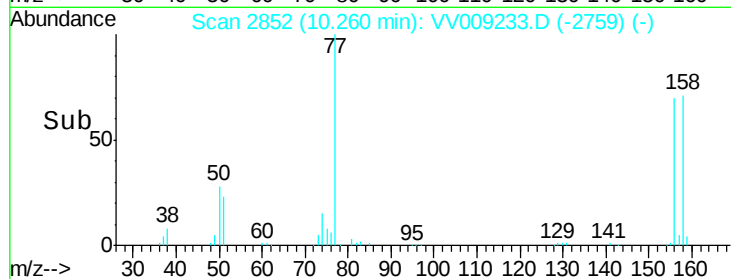
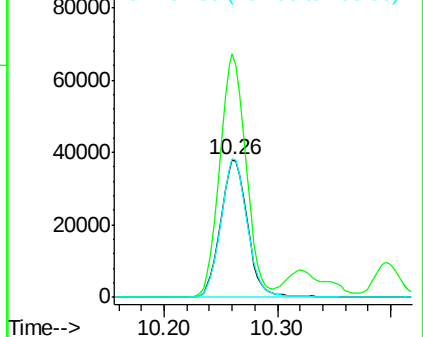
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 52.642 ug/l

RT: 10.40 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VV009233.D

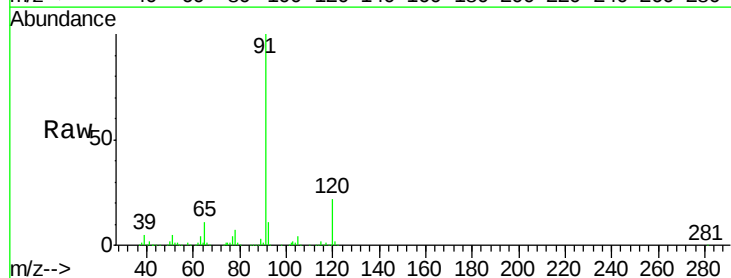
Acq: 22 Jan 2019 13:24

Tgt Ion: 91 Resp: 357344

Ion Ratio Lower Upper

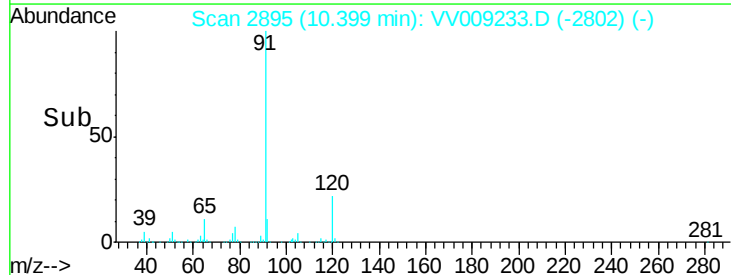
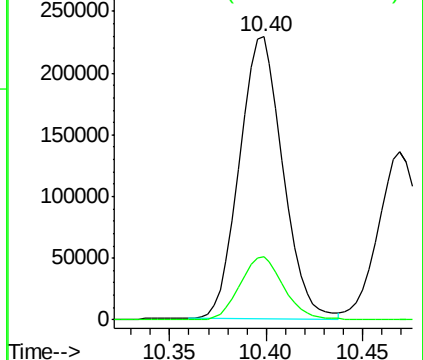
91 100

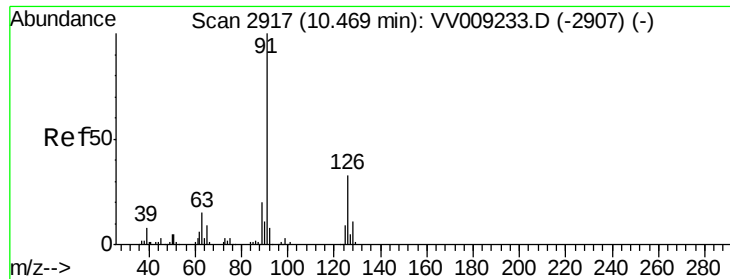
120 22.9 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VV0

Ion 120.00 (119.70 to 120.70): V





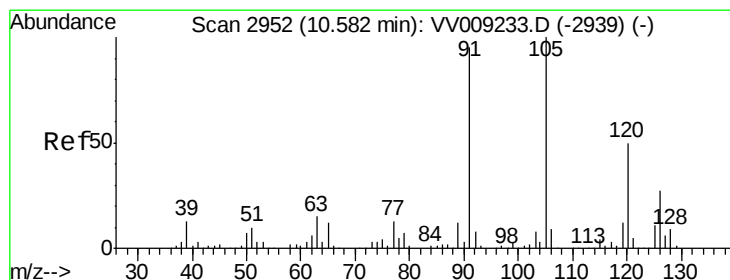
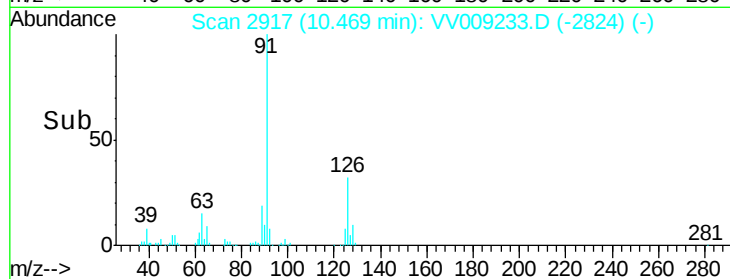
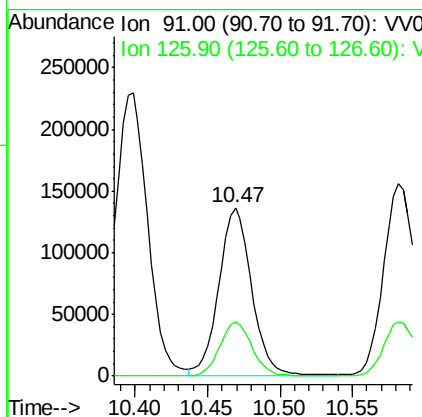
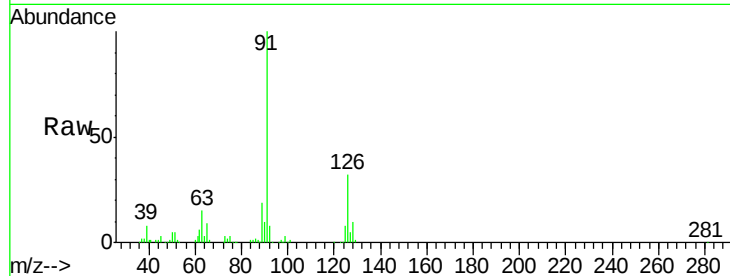
#79
 2-Chlorotoluene
 Concen: 50.802 ug/l
 RT: 10.47 min Scan# 2917
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleID :
 VSTDICCC050

Tot Ion: 91 Resp: 212748
 Ion Ratio Lower Upper
 91 100
 126 32.4 16.2 48.6

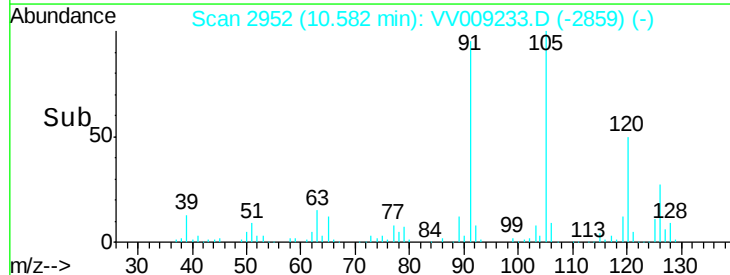
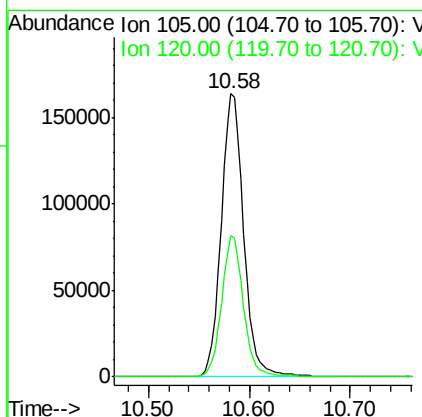
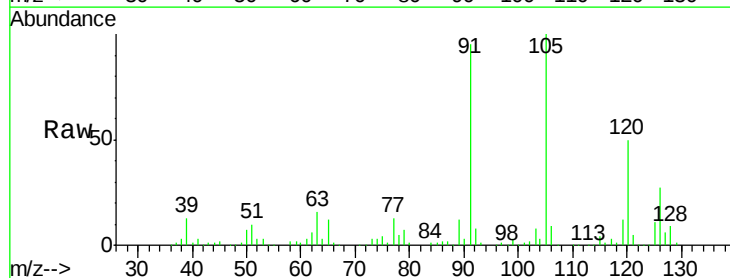
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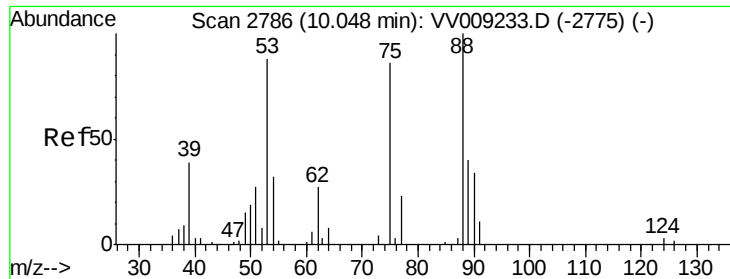
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#80
 1,3,5-Trimethylbenzene
 Concen: 52.561 ug/l
 RT: 10.58 min Scan# 2952
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion: 105 Resp: 255163
 Ion Ratio Lower Upper
 105 100
 120 48.7 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 51.362 ug/l

RT: 10.05 min Scan# 2786

Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Instrument :

MSVOA_V

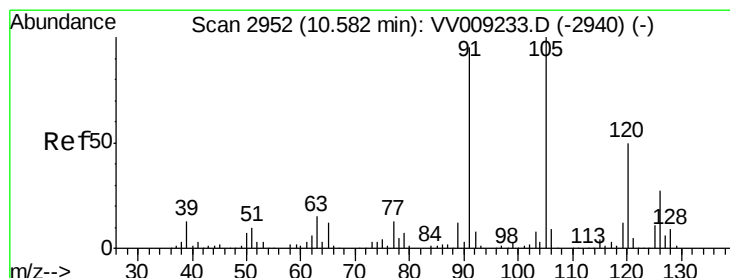
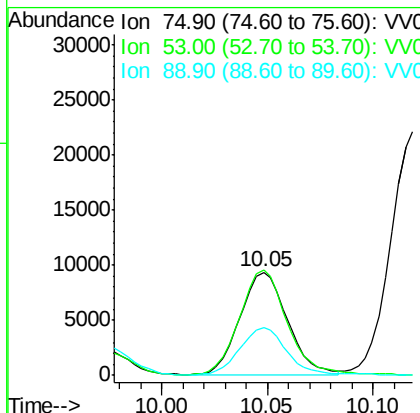
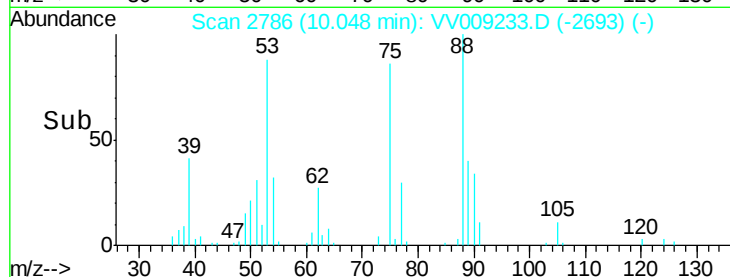
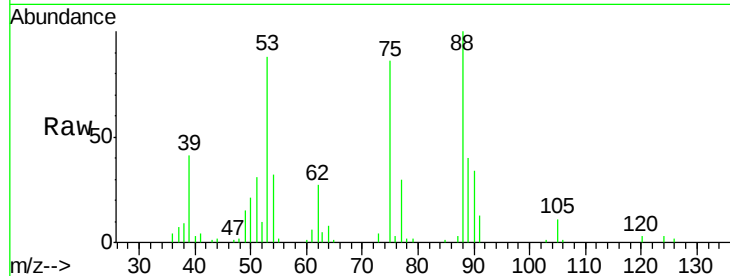
ClientSampleId :

VSTDICCC050

Tot Ion:	75	Resp:	14786
Ion	Ratio	Lower	Upper
75	100		
53	102.6	82.1	123.1
89	45.3	36.2	54.4

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#82

4-Chlorotoluene

Concen: 49.920 ug/l

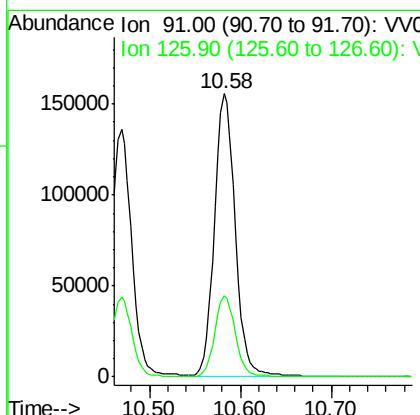
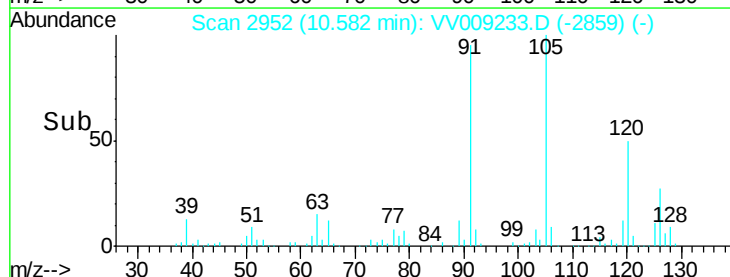
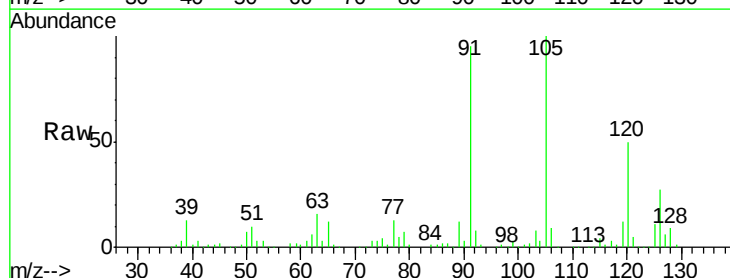
RT: 10.58 min Scan# 2952

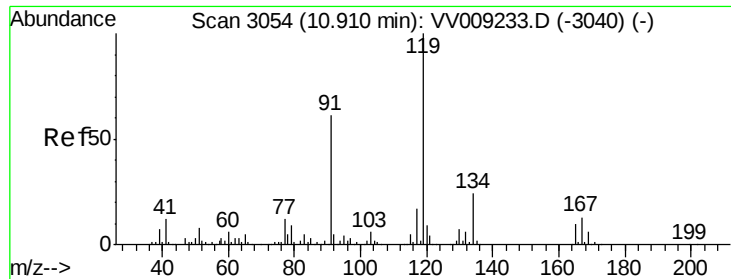
Delta R.T. 0.00 min

Lab File: VV009233.D

Acq: 22 Jan 2019 13:24

Tgt Ion:	91	Resp:	248996
Ion	Ratio	Lower	Upper
91	100		
126	28.6	14.3	42.9





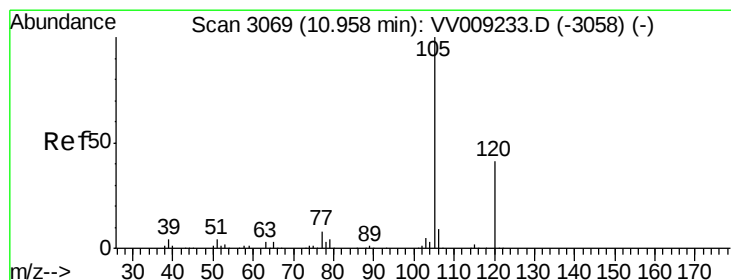
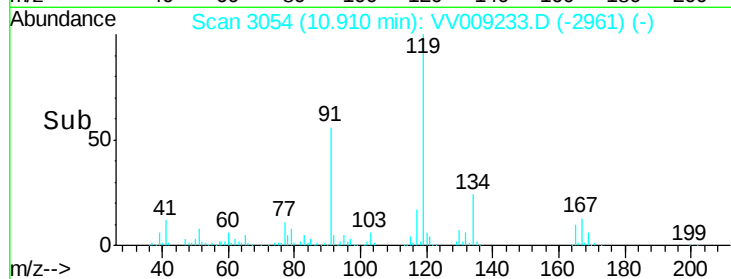
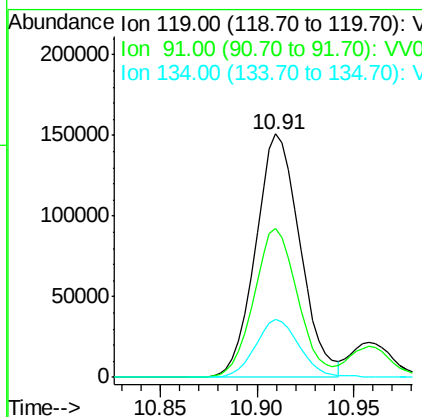
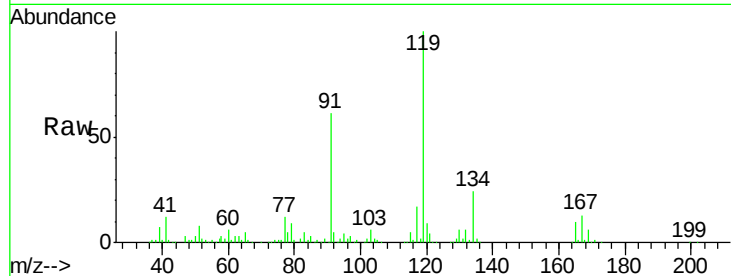
#83
 tert-Butylbenzene
 Concen: 52.317 ug/l
 RT: 10.91 min Scan# 3054
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Resp	Lower	Upper
119	100	241494		
91	60.1	30.0	90.1	
134	23.8	11.9	35.7	

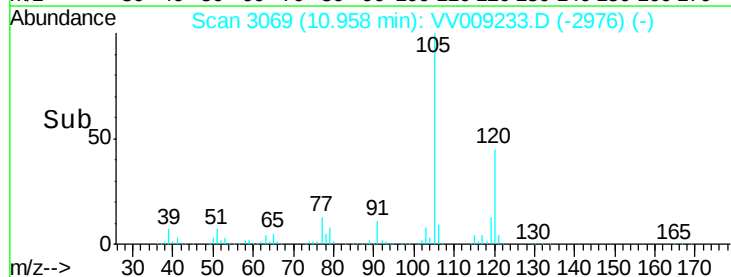
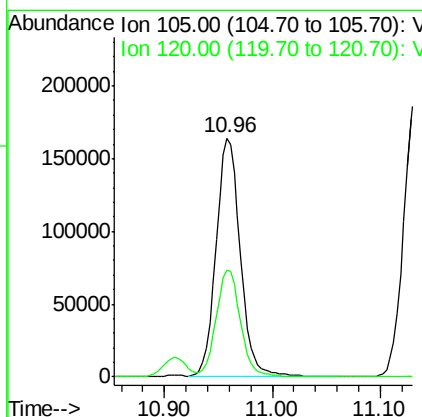
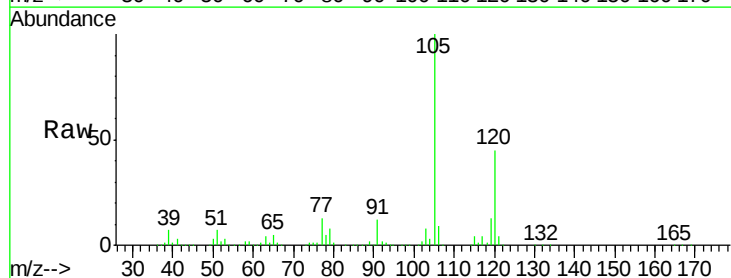
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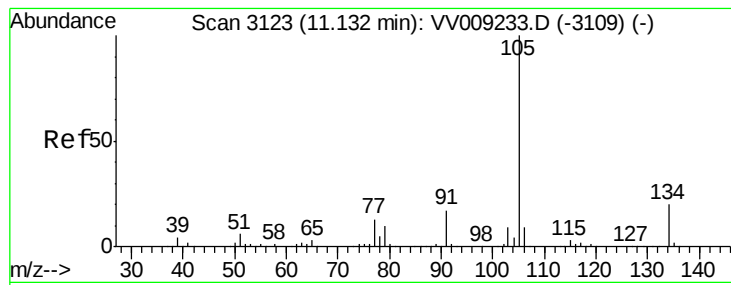
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#84
 1,2,4-Trimethylbenzene
 Concen: 51.014 ug/l
 RT: 10.96 min Scan# 3069
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	255238		
120	45.1	22.6	67.7	





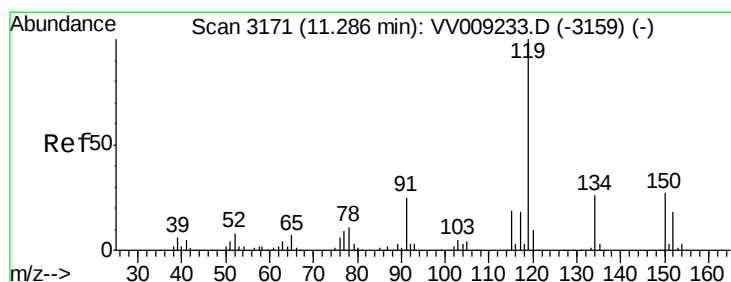
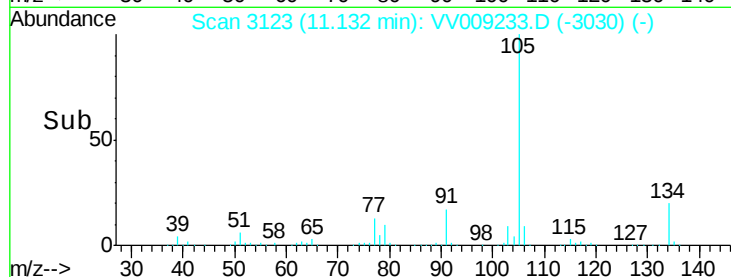
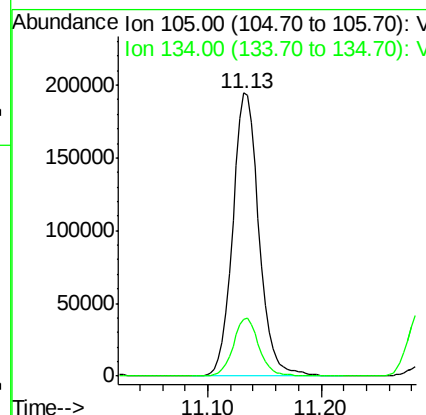
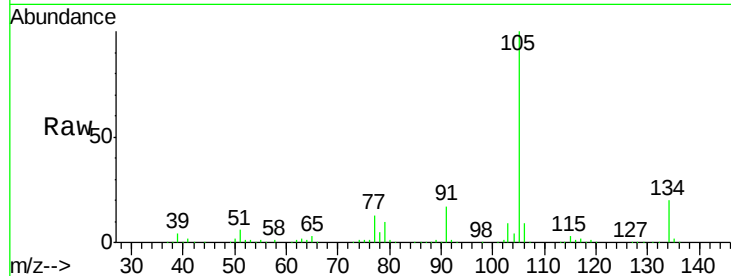
#85
 sec-Butylbenzene
 Concen: 52.909 ug/l
 RT: 11.13 min Scan# 3123
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion:105 Resp: 313922
 Ion Ratio Lower Upper
 105 100
 134 20.2 10.1 30.3

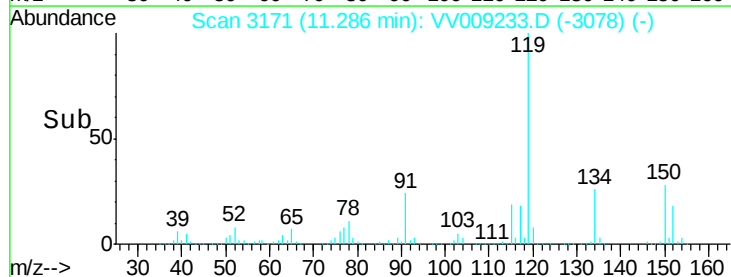
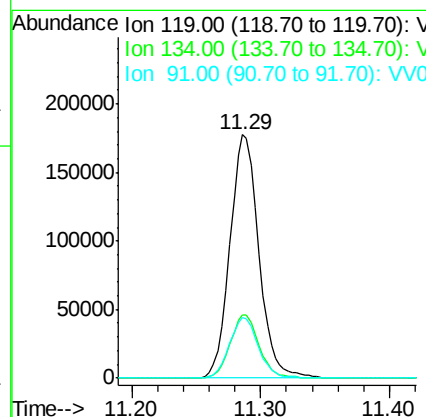
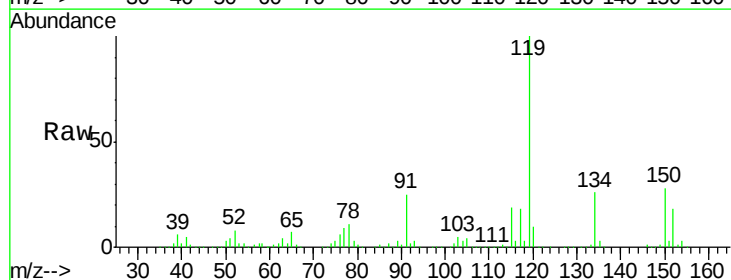
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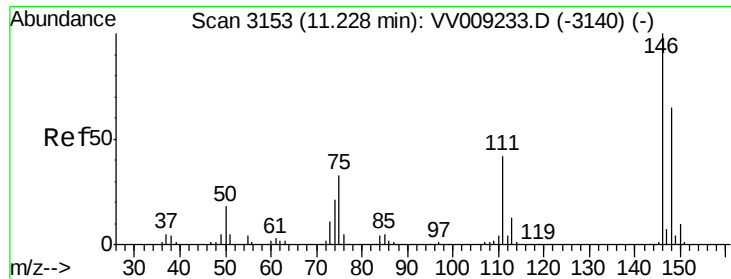
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#86
 p-Isopropyltoluene
 Concen: 52.453 ug/l
 RT: 11.29 min Scan# 3171
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion:119 Resp: 275928
 Ion Ratio Lower Upper
 119 100
 134 25.9 13.0 38.9
 91 24.8 12.4 37.2





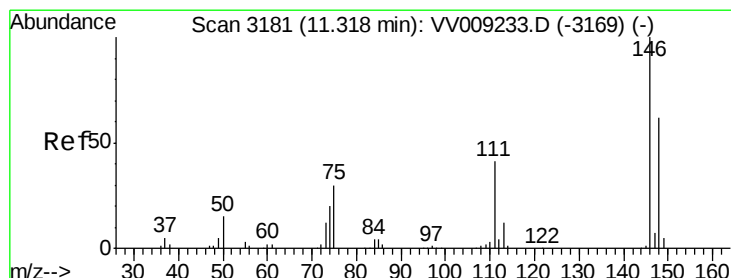
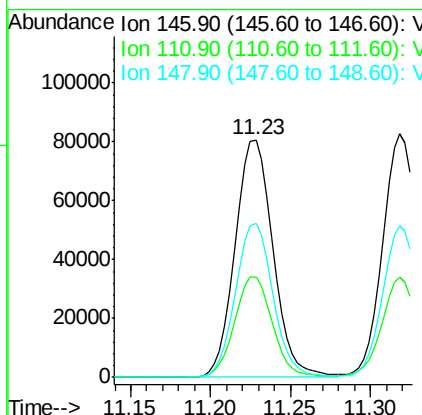
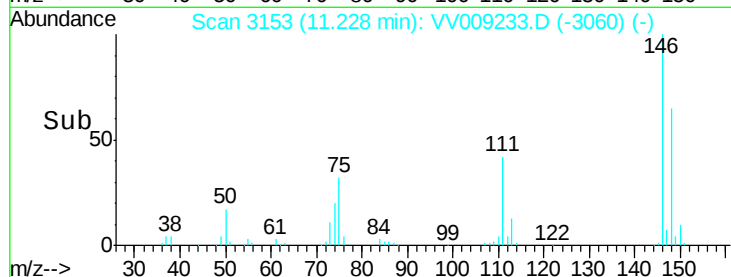
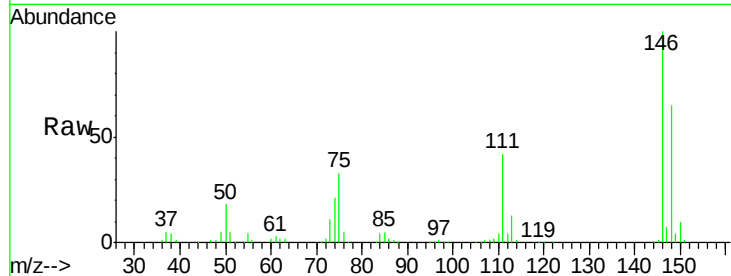
#87
 1,3-Dichlorobenzene
 Concen: 50.132 ug/l
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.1	63.4
148	64.2	32.1	96.3

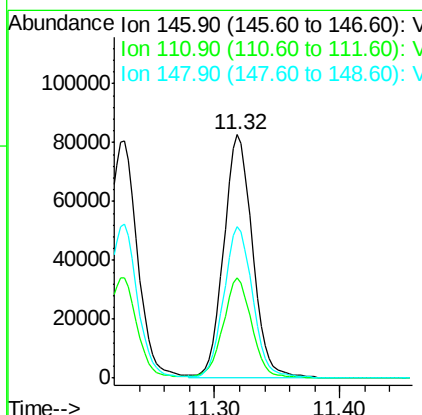
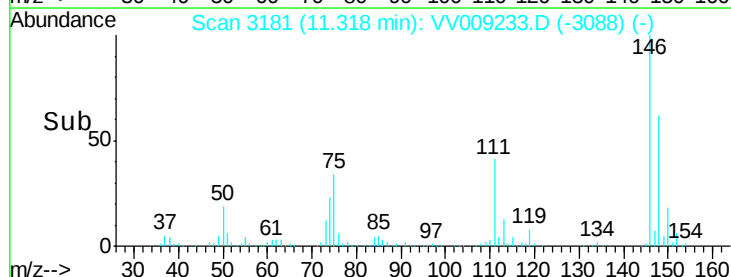
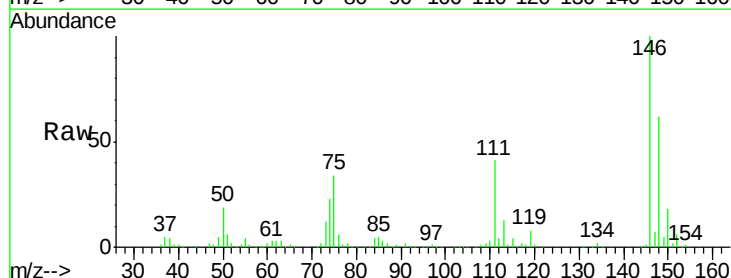
Manual Integrations
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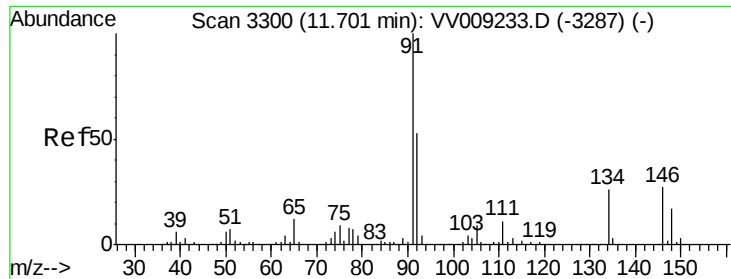
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#88
 1,4-Dichlorobenzene
 Concen: 50.009 ug/l
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.5	61.5
148	62.9	31.4	94.3





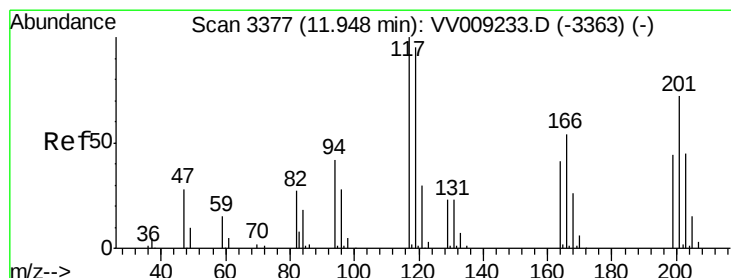
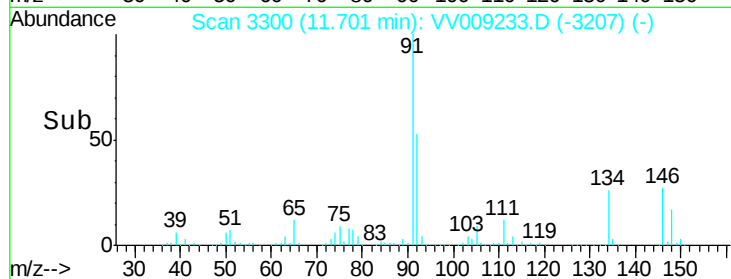
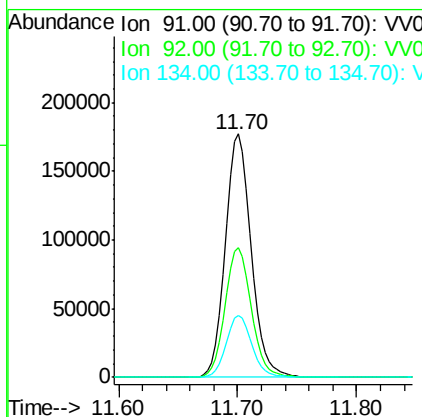
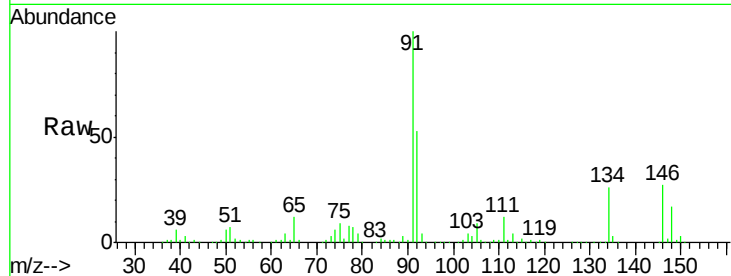
#89
n-Butylbenzene
Concen: 51.532 ug/l
RT: 11.70 min Scan# 3300
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.3	27.2	81.5
134	25.2	12.6	37.8

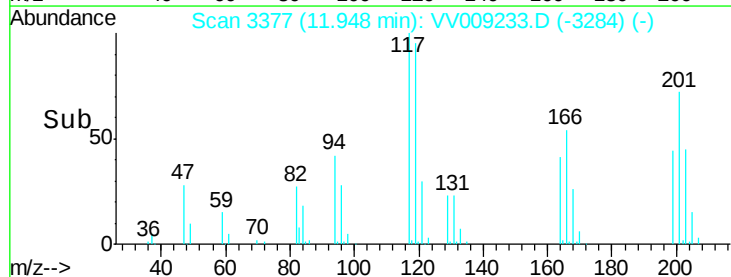
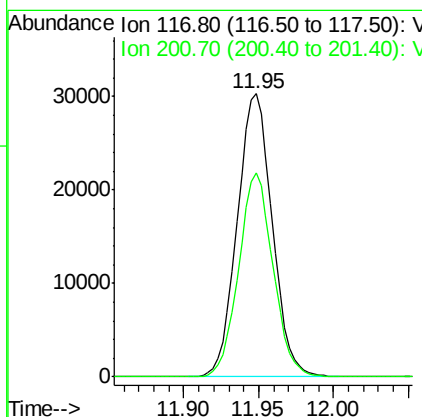
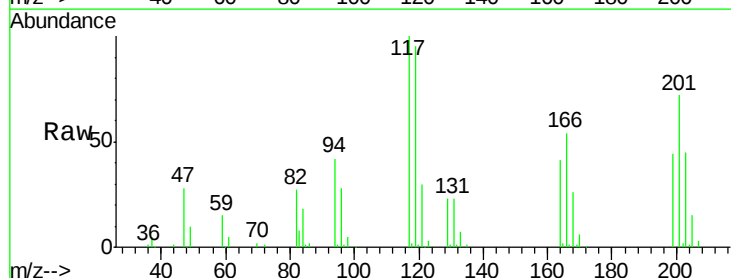
Manual Integrations
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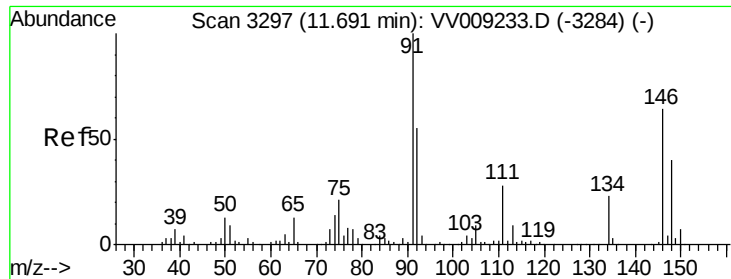
MMDadoda
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#90
Hexachloroethane
Concen: 52.150 ug/l
RT: 11.95 min Scan# 3377
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
117	100		
201	70.4	35.2	105.6





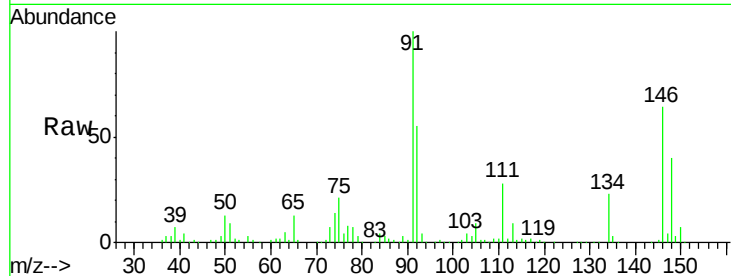
#91
 1,2-Dichlorobenzene
 Concen: 49.471 ug/l
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

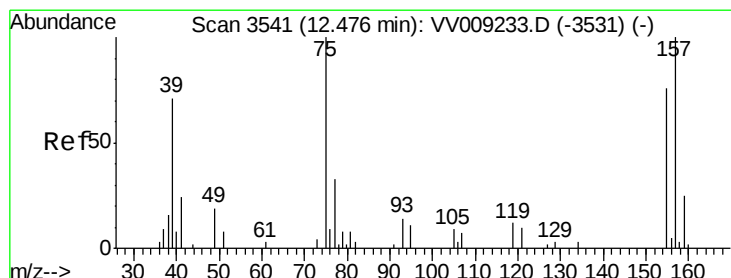
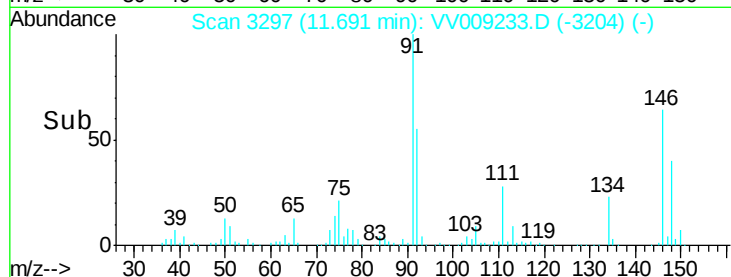
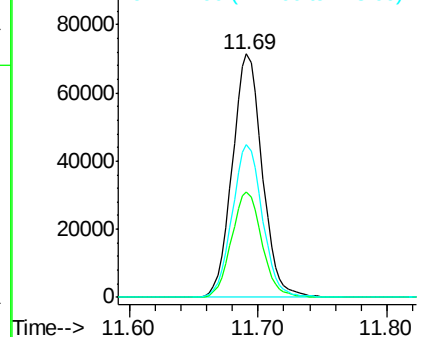
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.9	65.8
148	63.3	31.6	95.0

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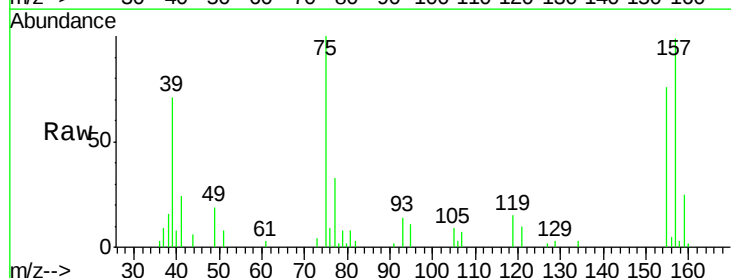


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

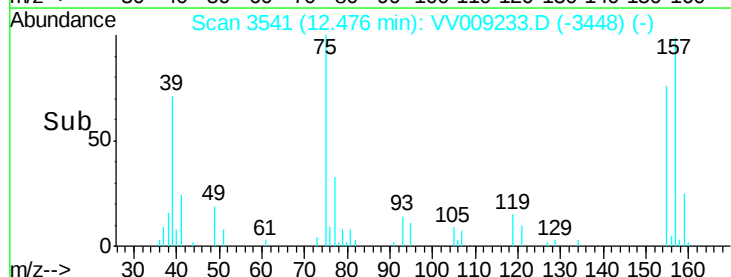
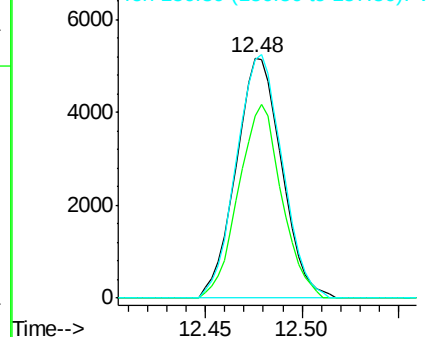


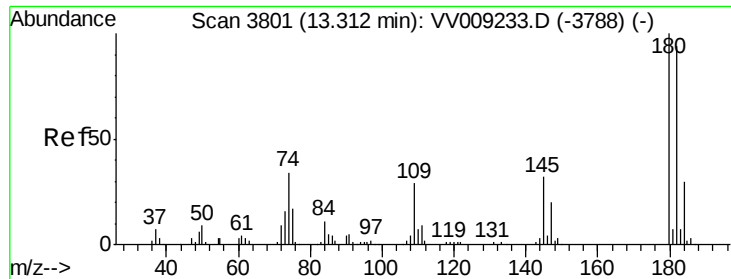
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 47.891 ug/l
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
75	100		
155	76.0	38.0	114.0
157	101.6	50.8	152.4



Abundance Ion 74.90 (74.60 to 75.60): VV0
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





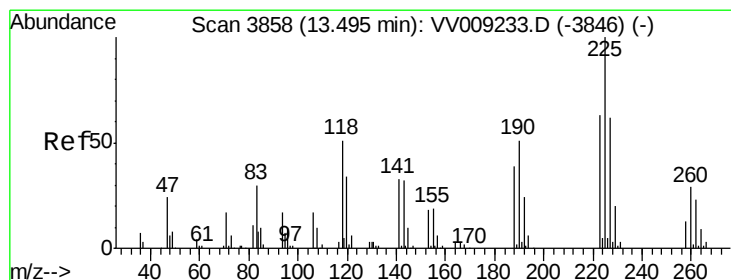
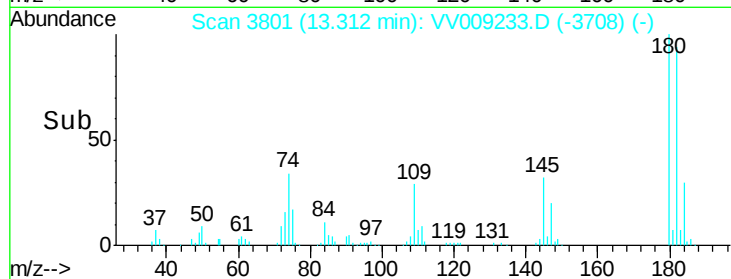
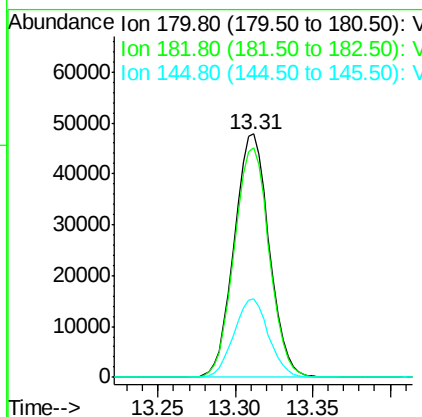
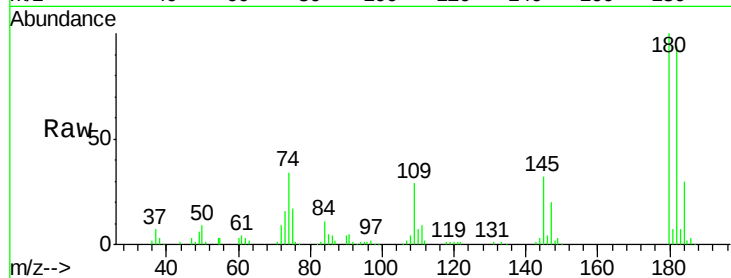
#93
 1,2,4-Trichlorobenzene
 Concen: 47.393 ug/l
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDICCC050

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.1	141.4
145	32.0	16.0	48.0

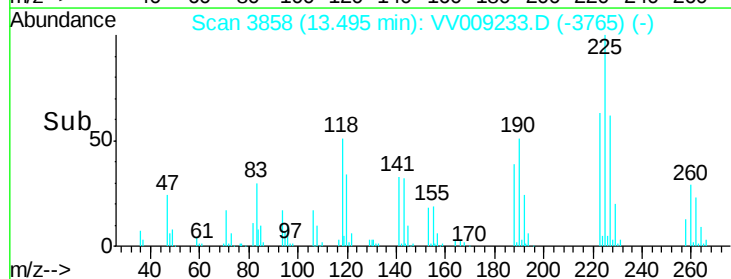
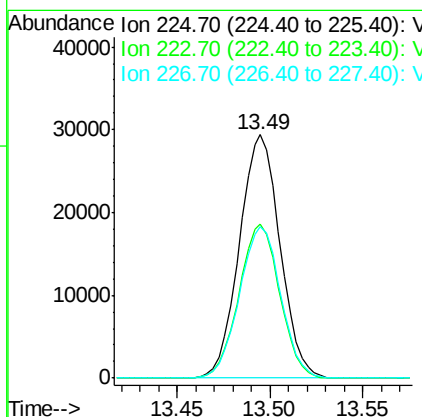
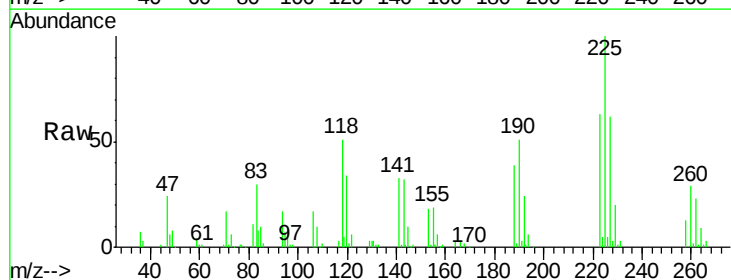
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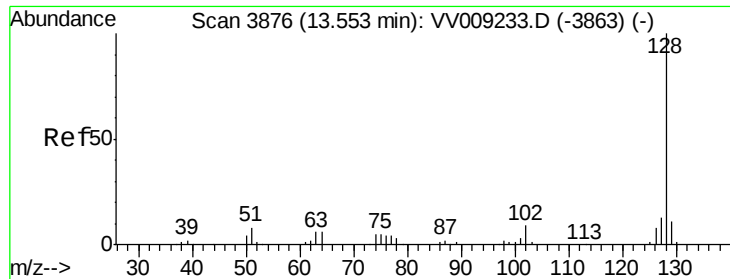
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#94
 Hexachlorobutadiene
 Concen: 49.740 ug/l
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.00 min
 Lab File: VV009233.D
 Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.7	95.1
227	63.3	31.6	95.0





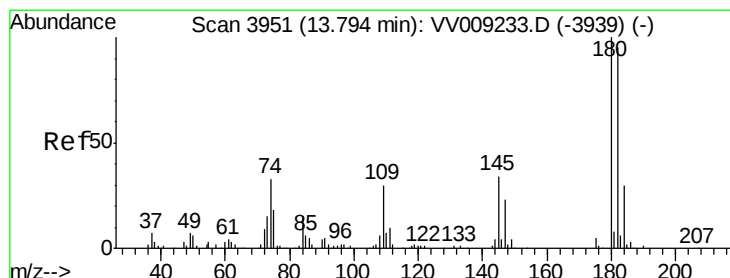
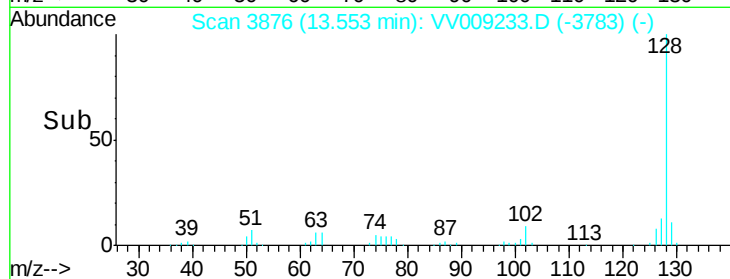
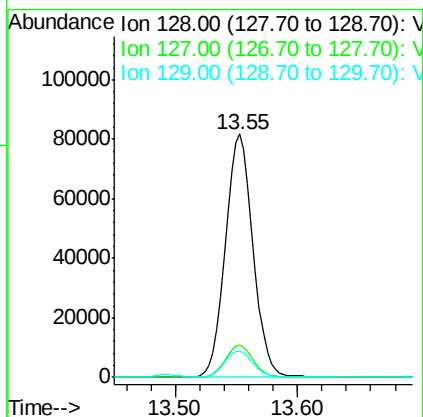
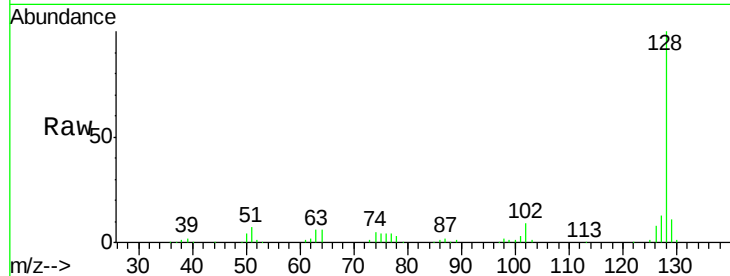
#95
Naphthalene
Concen: 46.705 ug/l
RT: 13.55 min Scan# 3876
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Instrument :
MSVOA_V
ClientSampleId :
VSTDICCC050

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.7	16.1
129	11.0	8.8	13.2

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 47.022 ug/l
RT: 13.79 min Scan# 3951
Delta R.T. 0.00 min
Lab File: VV009233.D
Acq: 22 Jan 2019 13:24

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.4	142.2
145	34.3	17.2	51.5

