

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV012219\
 Data File : VV009230.D
 Acq On : 22 Jan 2019 11:58
 Operator : SY/MD
 Sample : VSTDIC005
 Misc : 5.00 G/5ML/MSVOA V/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 1/24/2019 11:43:36 AM

Quant Time: Jan 23 00:52:00 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	88959	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.66	114	150139	50.00	ug/l	0.00
63) Chlorobenzene-d5	8.89	117	137567	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.30	152	65720	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.08	65	5132	4.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	8.52%	
35) Dibromofluoromethane	4.64	113	4628	4.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.30%	
50) Toluene-d8	7.36	98	18173	4.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.50%	
62) 4-Bromofluorobenzene	10.12	95	7005	4.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.52%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	4105	5.810	ug/l 93
3) Chloromethane	1.25	50	5147	4.996	ug/l 98
4) Vinyl Chloride	1.32	62	5728	5.687	ug/l 93
5) Bromomethane	1.53	94	3372	5.101	ug/l 97
6) Chloroethane	1.59	64	3313	5.222	ug/l 94
7) Trichlorofluoromethane	1.76	101	4032	6.542	ug/l 95
8) Diethyl Ether	1.96	74	2262	4.534	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	2.14	101	4739	5.167	ug/l 97
10) Methyl Iodide	2.25	142	7640	5.070	ug/l 97
11) Tert butyl alcohol	2.65	59	2793	31.703	ug/l # 72
12) 1,1-Dichloroethene	2.13	96	4820	5.234	ug/l 99
13) Acrolein	2.06	56	1560	24.430	ug/l 90
14) Allyl chloride	2.42	41	8032	4.961	ug/l 97
15) Acrylonitrile	2.76	53	5039	23.353	ug/l 98
16) Acetone	2.17	43	7782	26.403	ug/l 96
17) Carbon Disulfide	2.31	76	14378	5.232	ug/l 96
18) Methyl Acetate	2.45	43	4520	5.905	ug/l # 88
19) Methyl tert-butyl Ether	2.80	73	7532	5.221	ug/l 95
20) Methylene Chloride	2.52	84	6751	6.057	ug/l 96
21) trans-1,2-Dichloroethene	2.78	96	5081	5.102	ug/l 98
22) Diisopropyl ether	3.33	45	16730	4.641	ug/l 99
23) Vinyl Acetate	3.30	43	41888	21.052	ug/l 97
24) 1,1-Dichloroethane	3.22	63	10827	4.951	ug/l 99
25) 2-Butanone	4.01	43	7403	21.175	ug/l 92
26) 2,2-Dichloropropane	3.94	77	5317	4.599	ug/l 99
27) cis-1,2-Dichloroethene	3.96	96	5838	4.647	ug/l 96
28) Bromochloromethane	4.29	49	3777	4.499	ug/l # 98
29) Tetrahydrofuran	4.38	42	4049	20.216	ug/l # 80
30) Chloroform	4.42	83	10551	4.643	ug/l 99
31) Cyclohexane	4.72	56	11098	5.695	ug/l # 80
32) 1,1,1-Trichloroethane	4.65	97	8723	4.811	ug/l 96
36) 1,1-Dichloropropene	4.88	75	8453	5.200	ug/l 97
37) Ethyl Acetate	4.13	43	2434	3.584	ug/l # 88
38) Carbon Tetrachloride	4.87	117	7957	4.926	ug/l 99

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Manual Integrations
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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.17	83	9584	5.123	ug/l	100
40) Benzene	5.14	78	22697	4.943	ug/l	99
41) Methacrylonitrile	4.31	41	1694	4.260	ug/l #	89
42) 1,2-Dichloroethane	5.18	62	7297	4.763	ug/l	97
43) Isopropyl Acetate	5.32	43	5432	4.026	ug/l	97
44) Trichloroethene	5.96	130	6290	5.320	ug/l	90
45) 1,2-Dichloropropane	6.21	63	5262	4.702	ug/l	97
46) Dibromomethane	6.35	93	2639	4.328	ug/l	97
47) Bromodichloromethane	6.55	83	6933	4.358	ug/l	98
48) Methyl methacrylate	6.42	41	2874	4.202	ug/l	94
49) 1,4-Dioxane	6.41	88	588	74.325	ug/l #	84
51) 4-Methyl-2-Pentanone	7.27	43	14423	21.368	ug/l	98
52) Toluene	7.43	92	13930	4.833	ug/l	98
53) t-1,3-Dichloropropene	7.69	75	6266	4.049	ug/l	98
54) cis-1,3-Dichloropropene	7.07	75	7473	4.262	ug/l	94
55) 1,1,2-Trichloroethane	7.88	97	3896	4.716	ug/l	96
56) Ethyl methacrylate	7.83	69	3905	3.902	ug/l	97
57) 1,3-Dichloropropane	8.05	76	6855	4.501	ug/l	99
59) 2-Hexanone	8.18	43	9746	19.480	ug/l	100
60) Dibromochloromethane	8.29	129	4230	4.300	ug/l	94
61) 1,2-Dibromoethane	8.40	107	3632	4.436	ug/l	99
64) Tetrachloroethene	8.02	164	4682	5.000	ug/l	97
65) Chlorobenzene	8.92	112	15514	4.938	ug/l	95
66) 1,1,1,2-Tetrachloroethane	9.02	131	5190	4.808	ug/l	95
67) Ethyl Benzene	9.05	91	26780	4.798	ug/l	98
68) m/p-Xylenes	9.18	106	20000	9.551	ug/l	100
69) o-Xylene	9.59	106	9262	4.748	ug/l	98
70) Stvrene	9.60	104	14200	4.464	ug/l	98
71) Bromoform	9.78	173	2087	3.957	ug/l #	92
73) Isopropylbenzene	9.97	105	25584	4.916	ug/l	99
74) N-amyl acetate	9.84	43	4365	3.970	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.28	83	4288	4.601	ug/l	99
76) 1,2,3-Trichloropropane	10.32	75	3779m	5.211	ug/l	
77) Bromobenzene	10.26	156	5715	4.946	ug/l	98
78) n-propylbenzene	10.40	91	31010	5.029	ug/l	98
79) 2-Chlorotoluene	10.47	91	19206	5.048	ug/l	96
80) 1,3,5-Trimethylbenzene	10.58	105	21291	4.828	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.05	75	1072	4.099	ug/l	88
82) 4-Chlorotoluene	10.58	91	23469	5.179	ug/l	98
83) tert-Butylbenzene	10.91	119	20105	4.794	ug/l	98
84) 1,2,4-Trimethylbenzene	10.96	105	21400	4.708	ug/l	99
85) sec-Butylbenzene	11.13	105	26981	5.006	ug/l	99
86) p-Isopropyltoluene	11.29	119	23734	4.966	ug/l	99
87) 1,3-Dichlorobenzene	11.23	146	12229	5.180	ug/l	98
88) 1,4-Dichlorobenzene	11.32	146	12599	5.259	ug/l	92
89) n-Butylbenzene	11.70	91	23413	4.974	ug/l	100
90) Hexachloroethane	11.95	117	4088	4.743	ug/l	98
91) 1,2-Dichlorobenzene	11.69	146	11015	5.218	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.48	75	681	4.218	ug/l	92
93) 1,2,4-Trichlorobenzene	13.31	180	6877	4.776	ug/l	97

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VSTDICC005

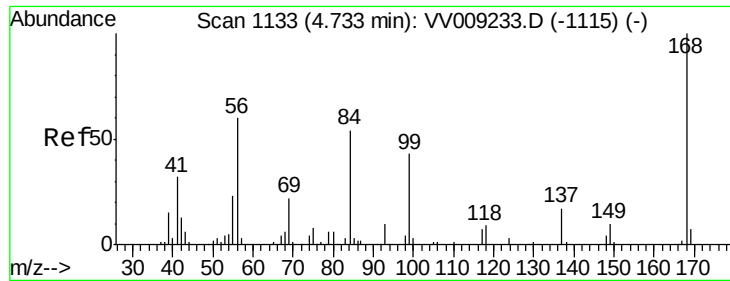
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Quant Title : SW846 8260
QLast Update : Wed Jan 23 00:37:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	13.50	225	4423	5.441	ug/l	98
95) Naphthalene	13.56	128	11552	4.572	ug/l	98
96) 1,2,3-Trichlorobenzene	13.80	180	5744	4.700	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.73 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 88959

Ion Ratio Lower Upper

168 100

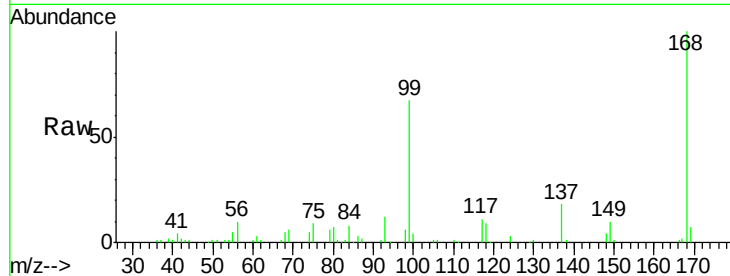
99 66.9 50.9 76.3

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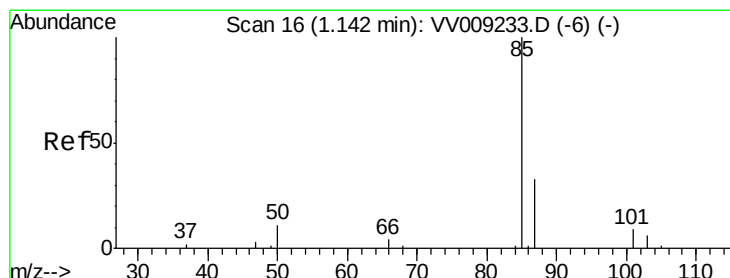
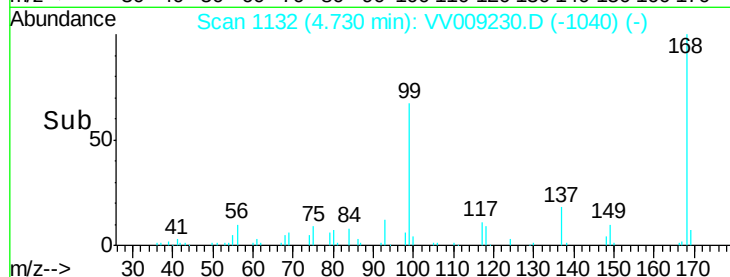
Abundance Ion 167.90 (167.60 to 168.60): VV009233.D (-1115) (-)

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

4.73

4.60 4.70 4.80 4.90

Time-->



#2

Dichlorodifluoromethane

Concen: 5.810 ug/l

RT: 1.14 min Scan# 16

Delta R.T. 0.00 min

Lab File: VV009230.D

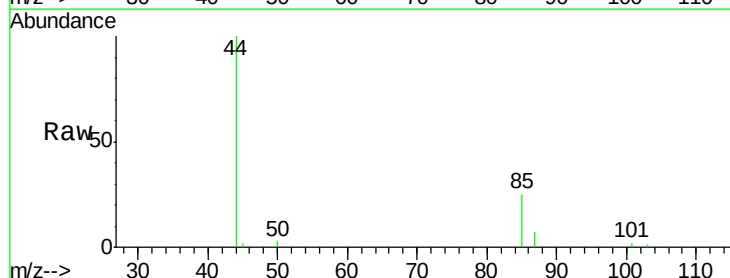
Acq: 22 Jan 2019 11:58

Tgt Ion: 85 Resp: 4105

Ion Ratio Lower Upper

85 100

87 29.3 16.6 49.7



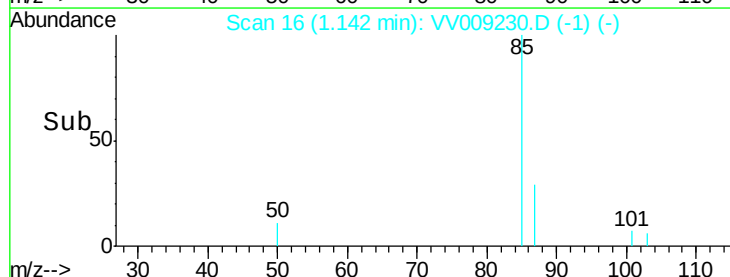
Abundance Ion 84.90 (84.60 to 85.60): VV009233.D (-6) (-)

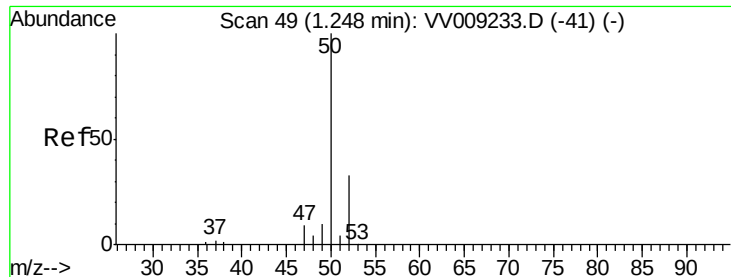
Ion 86.90 (86.60 to 87.60): VV009233.D (-6) (-)

1.14

1.10 1.15 1.20 1.25

Time-->





#3

Chloromethane

Concen: 4.996 ug/l

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 5147

Ion Ratio Lower Upper

50 100

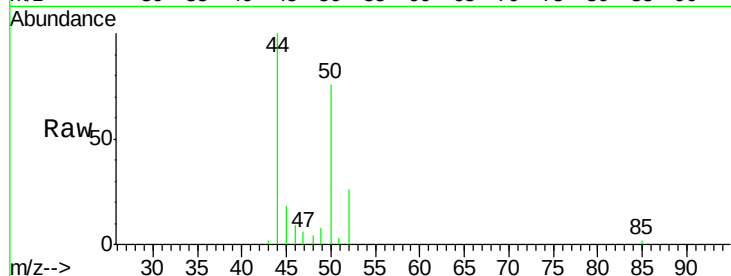
52 33.8 26.3 39.5

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Abundance Ion 49.90 (49.60 to 50.60): VV009233.D (-41) (-)

Ion 51.90 (51.60 to 52.60): VV009233.D (-41) (-)

1.25

4000

3000

2000

1000

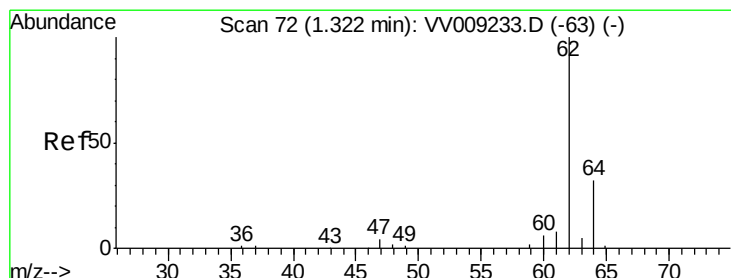
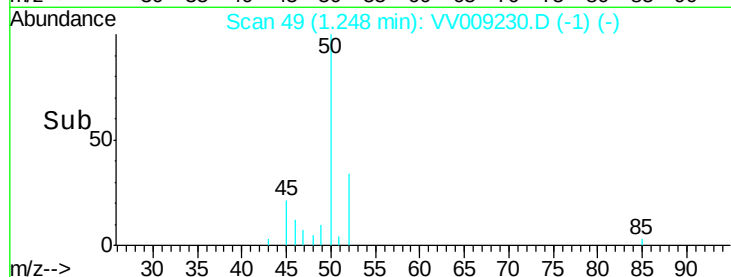
0

Time-->

1.20

1.25

1.30



#4

Vinyl Chloride

Concen: 5.687 ug/l

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009230.D

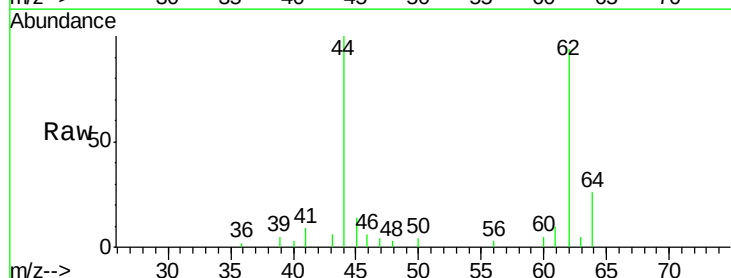
Acq: 22 Jan 2019 11:58

Tgt Ion: 62 Resp: 5728

Ion Ratio Lower Upper

62 100

64 27.8 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VV009233.D (-63) (-)

Ion 63.90 (63.60 to 64.60): VV009233.D (-63) (-)

1.32

4000

3000

2000

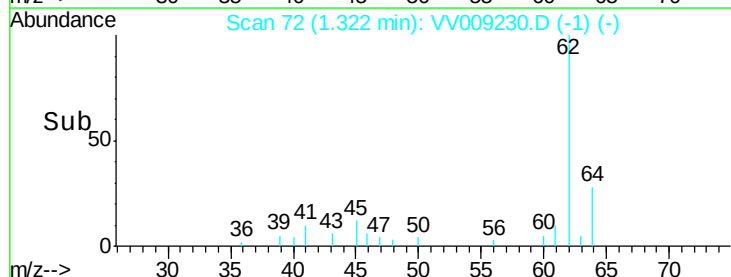
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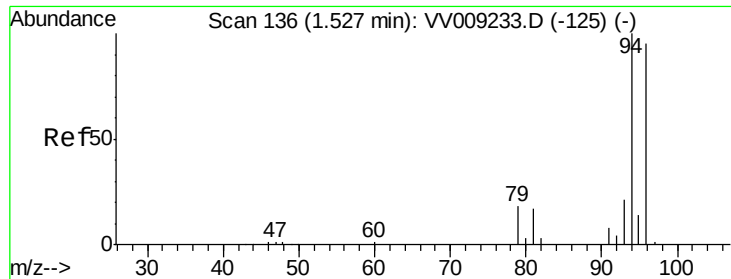
0

Time-->

1.30

1.35





#5

Bromomethane

Concen: 5.101 ug/l

RT: 1.53 min Scan# 137

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 3372

Ion Ratio Lower Upper

94 100

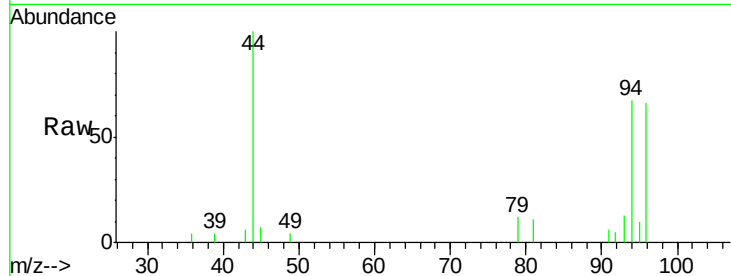
96 98.5 76.3 114.5

Manual Integrations

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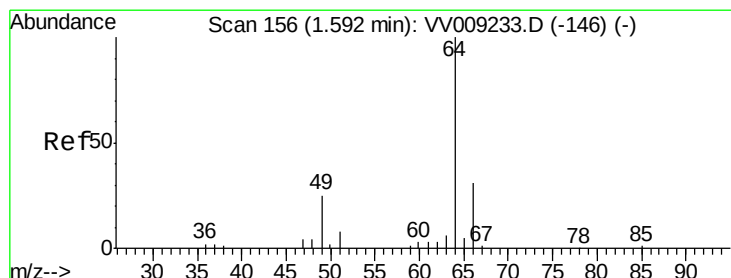
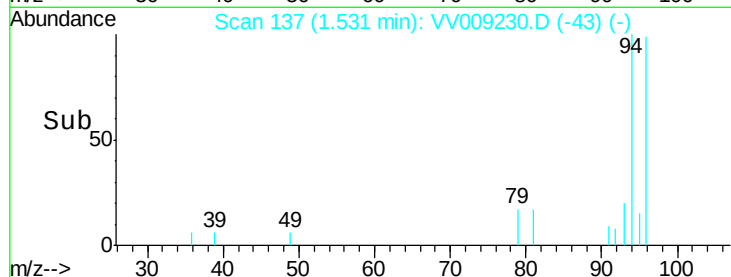
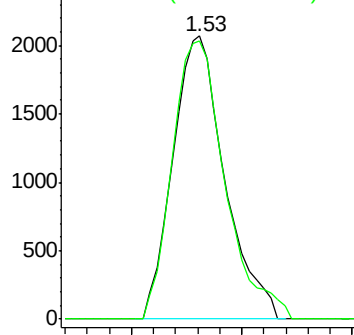
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Abundance Ion 93.90 (93.60 to 94.60): VV0

Ion 95.90 (95.60 to 96.60): VV0



#6

Chloroethane

Concen: 5.222 ug/l

RT: 1.59 min Scan# 156

Delta R.T. 0.00 min

Lab File: VV009230.D

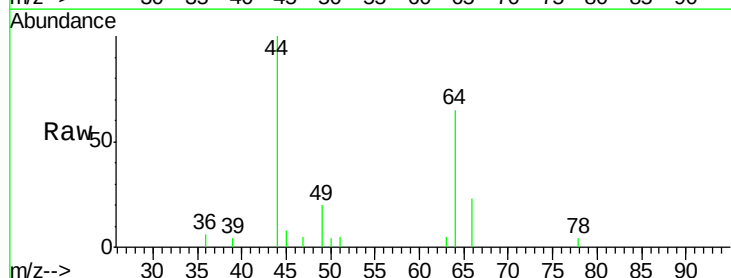
Acq: 22 Jan 2019 11:58

Tgt Ion: 64 Resp: 3313

Ion Ratio Lower Upper

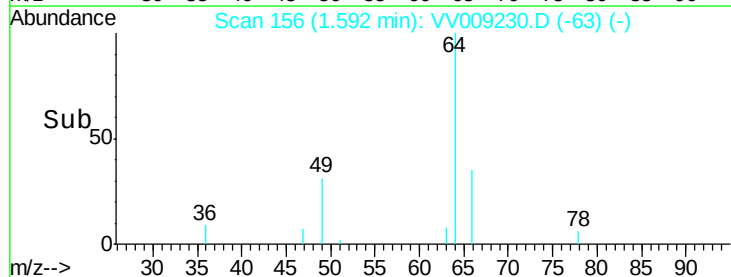
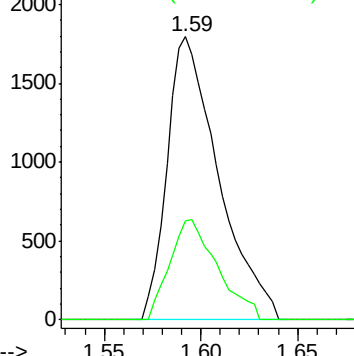
64 100

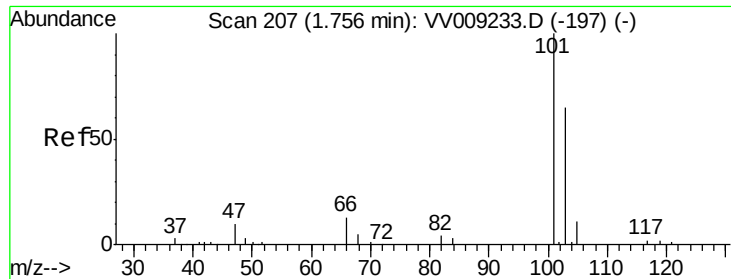
66 34.8 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VV0

Ion 65.90 (65.60 to 66.60): VV0





#7

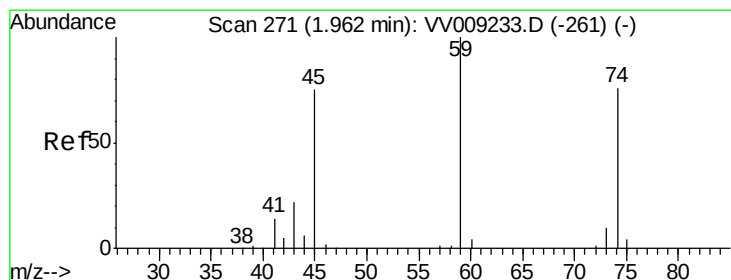
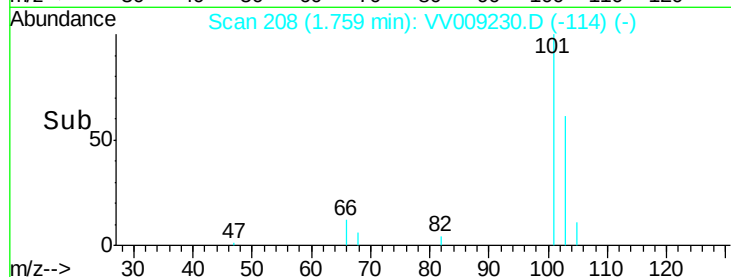
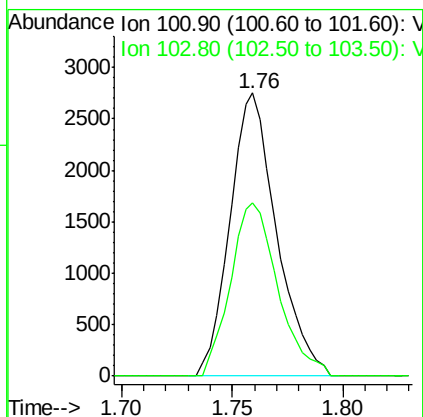
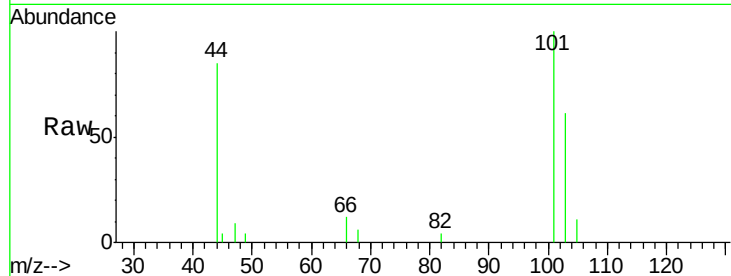
Trichlorofluoromethane
Concen: 6.542 ug/l
RT: 1.76 min Scan# 208
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
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ClientSampleId :
VSTDIC005

Tot Ion:101 Resp: 4032
Ion Ratio Lower Upper
101 100
103 61.2 52.2 78.4

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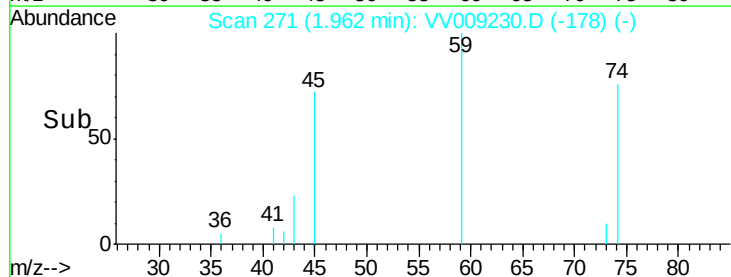
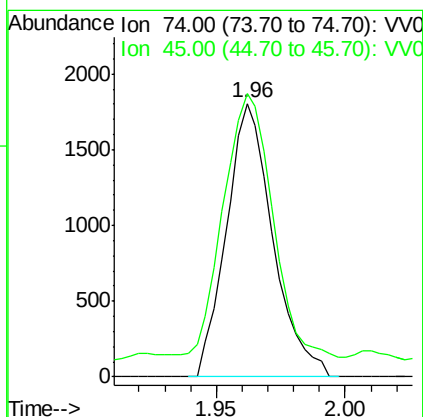
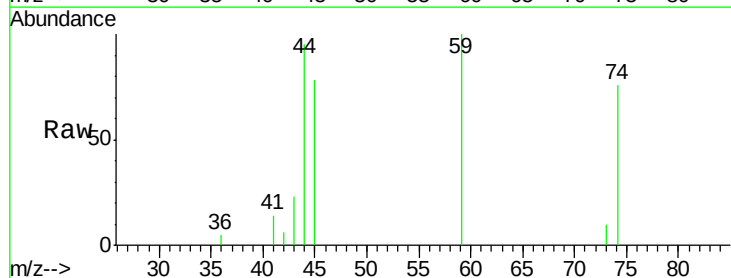
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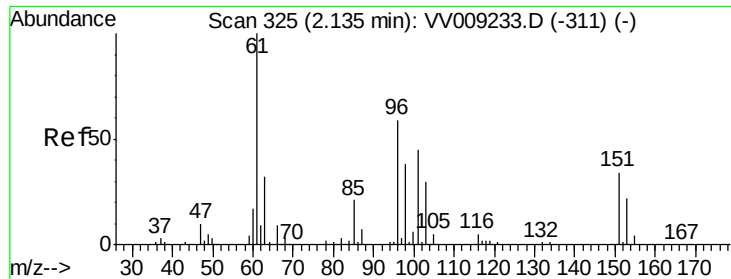


#8

Diethyl Ether
Concen: 4.534 ug/l
RT: 1.96 min Scan# 271
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion: 74 Resp: 2262
Ion Ratio Lower Upper
74 100
45 101.9 49.1 147.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.167 ug/l

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

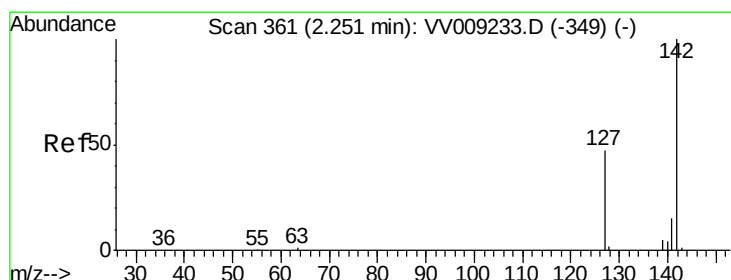
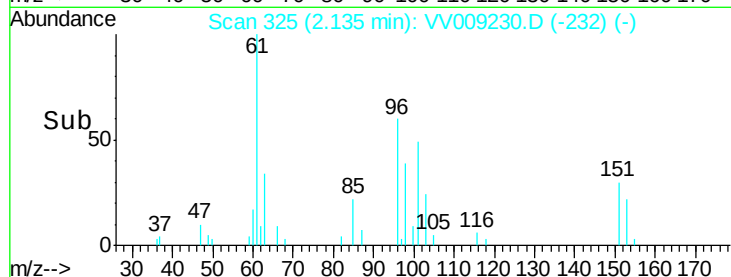
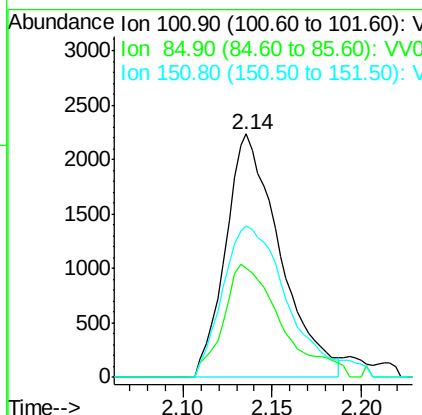
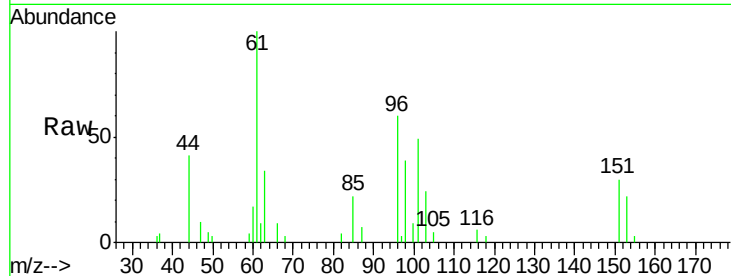
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	4739
Ion Ratio	Lower	Upper	
101	100		
85	49.0	35.3	52.9
151	75.2	60.1	90.1

Manual Integrations
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#10

Methyl Iodide

Concen: 5.070 ug/l

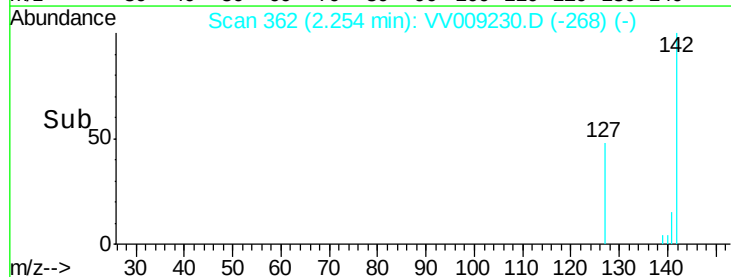
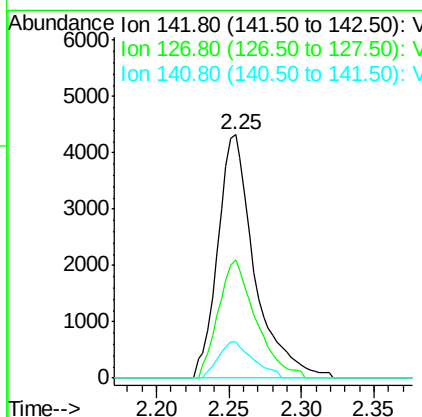
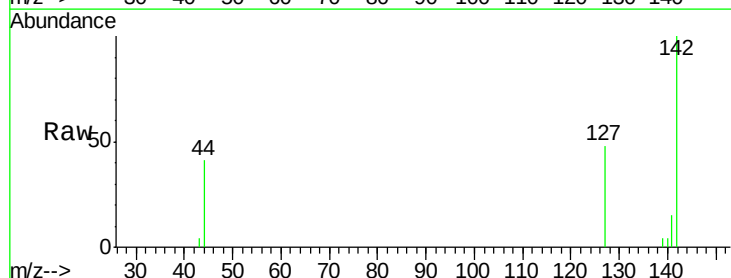
RT: 2.25 min Scan# 362

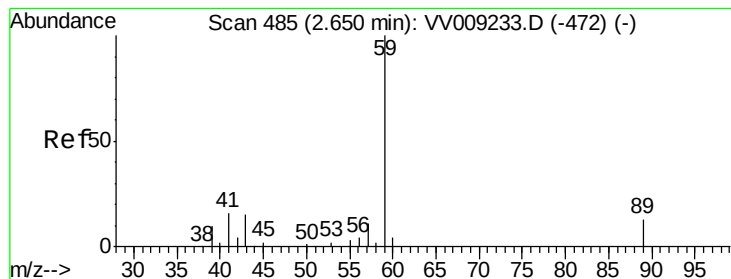
Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Tgt Ion:	142	Resp:	7640
Ion Ratio	Lower	Upper	
142	100		
127	49.5	37.9	56.9
141	14.0	11.7	17.5





#11

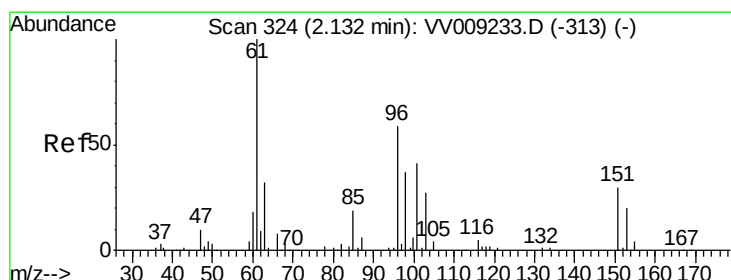
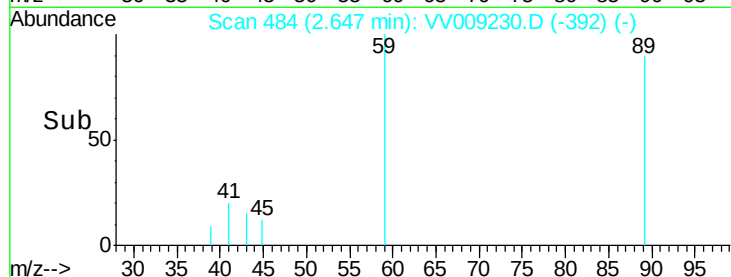
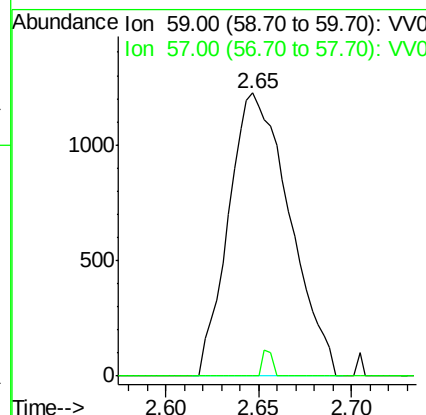
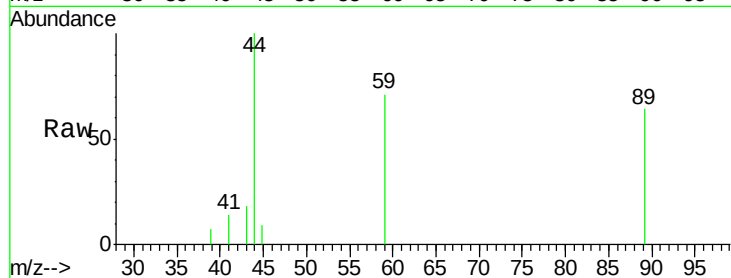
Tert butyl alcohol
Concen: 31.703 ug/l
RT: 2.65 min Scan# 484
Delta R.T. -0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampled :
VSTDIC005

Tot Ion: 59 Resp: 2793
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

Manual Integrations
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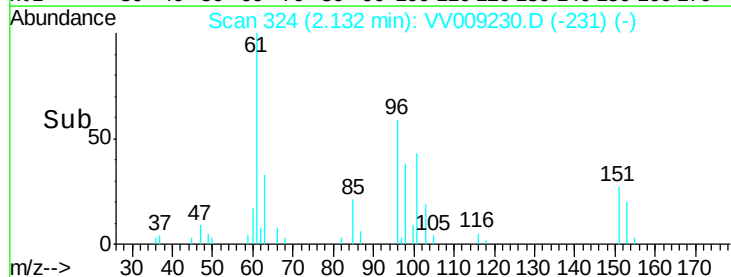
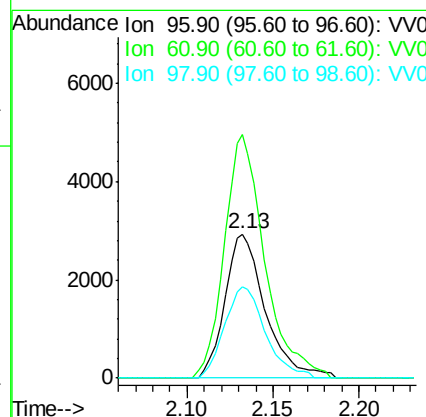
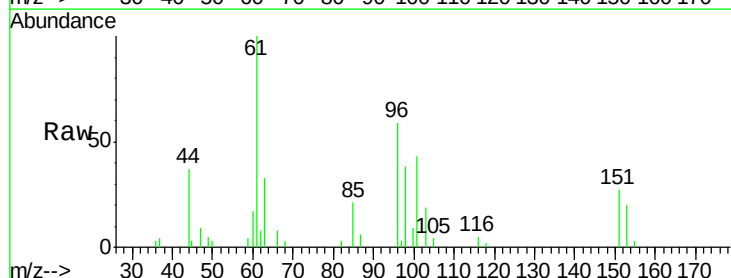
MMDadoda
1/24/2019 11:43:36 AM

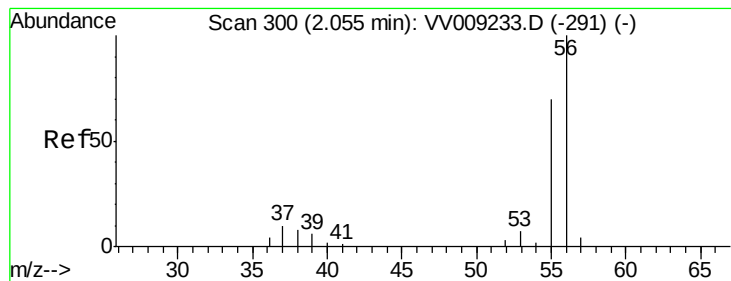


#12

1,1-Dichloroethene
Concen: 5.234 ug/l
RT: 2.13 min Scan# 324
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion: 96 Resp: 4820
Ion Ratio Lower Upper
96 100
61 169.4 136.6 205.0
98 63.6 50.6 75.8





#13

Acrolein

Concen: 24.430 ug/l

RT: 2.06 min Scan# 301

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 1560

Ion Ratio Lower Upper

56 100

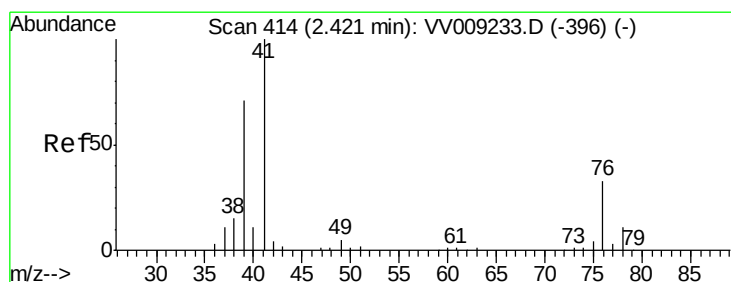
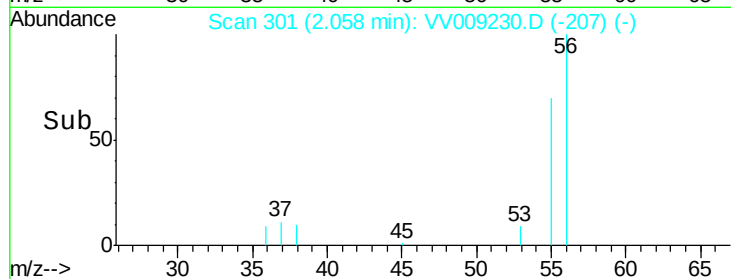
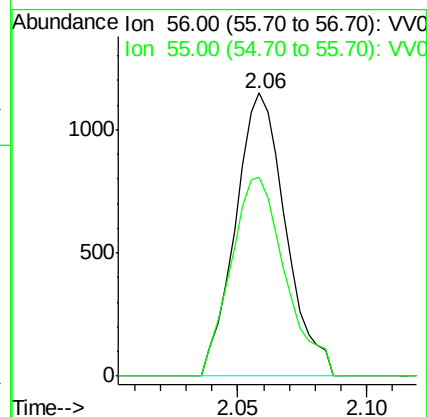
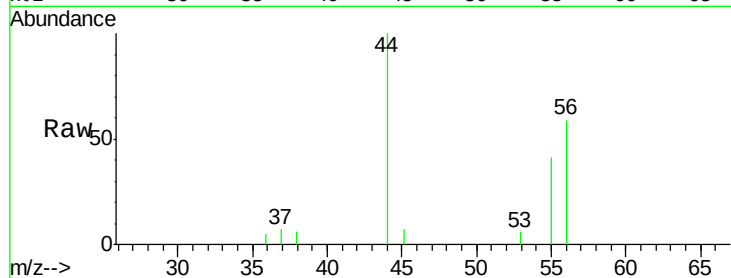
55 75.9 54.0 81.0

Manual Integrations

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#14

Allyl chloride

Concen: 4.961 ug/l

RT: 2.42 min Scan# 414

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

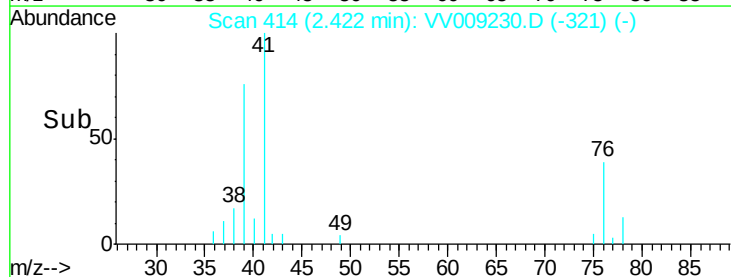
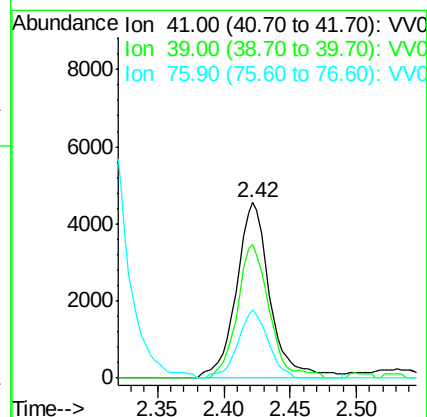
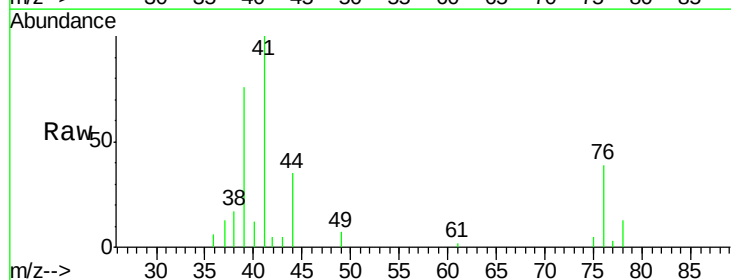
Tgt Ion: 41 Resp: 8032

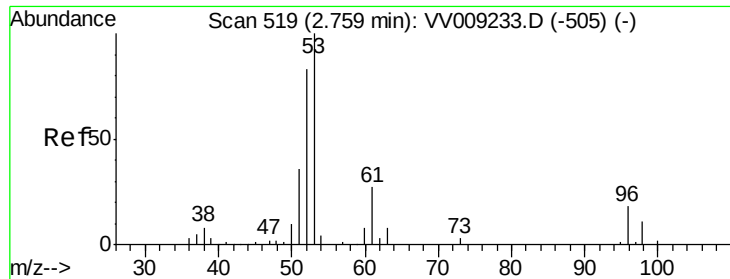
Ion Ratio Lower Upper

41 100

39 72.1 55.1 82.7

76 34.8 26.7 40.1





#15

Acrylonitrile

Concen: 23.353 ug/l

RT: 2.76 min Scan# 518

Delta R.T. -0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

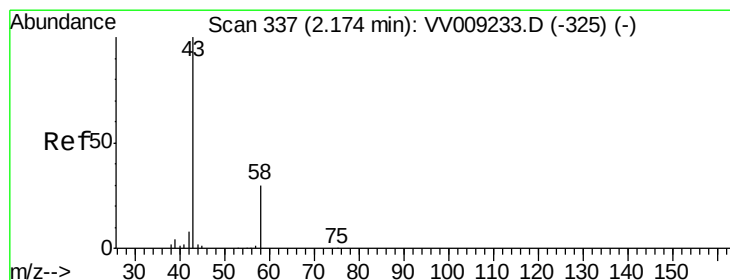
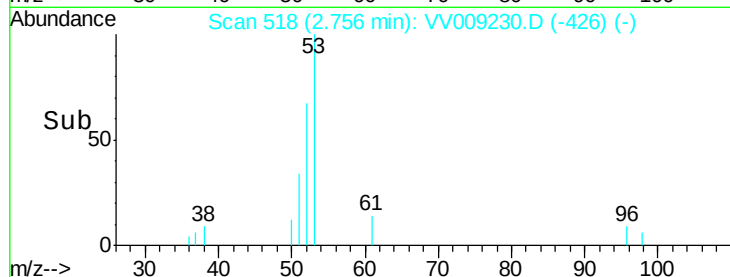
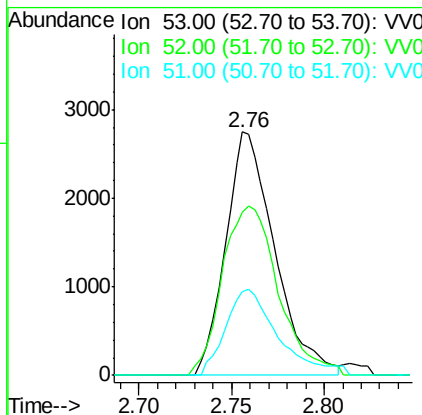
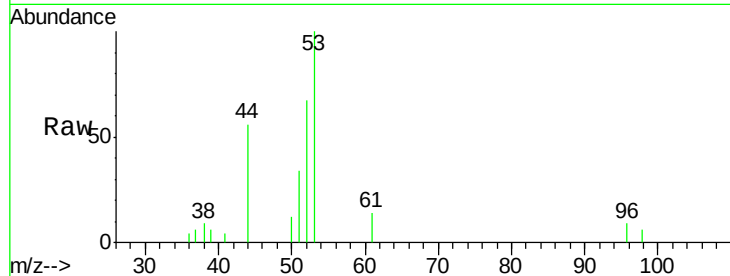
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	5039
Ion	Ratio	Lower	Upper
53	100		
52	79.8	65.3	97.9
51	37.8	29.0	43.4

Manual Integrations
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#16

Acetone

Concen: 26.403 ug/l

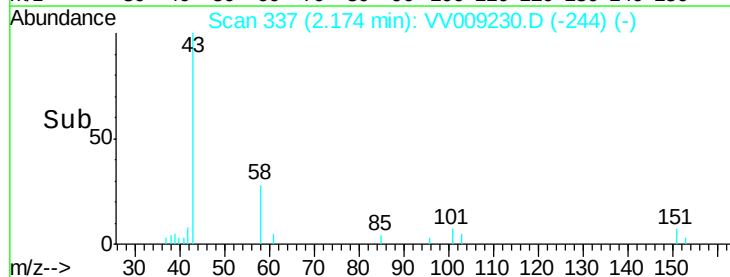
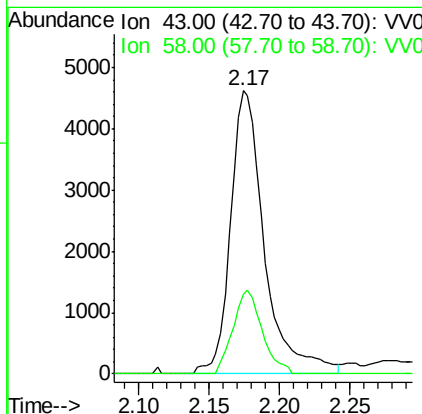
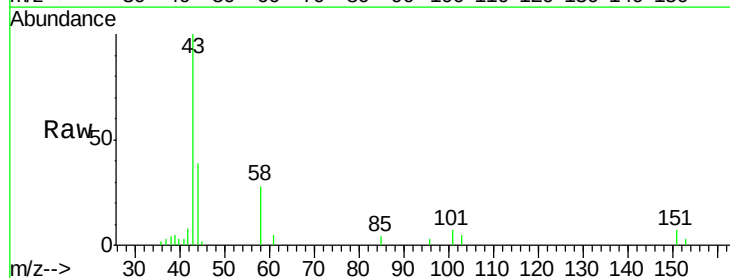
RT: 2.17 min Scan# 337

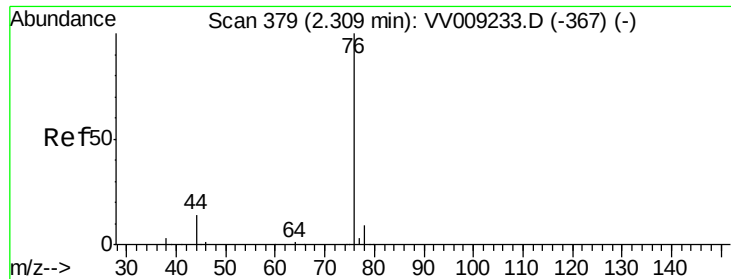
Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Tgt Ion:	43	Resp:	7782
Ion	Ratio	Lower	Upper
43	100		
58	28.4	24.4	36.6





#17

Carbon Disulfide

Concen: 5.232 ug/l

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 14378

Ion Ratio Lower Upper

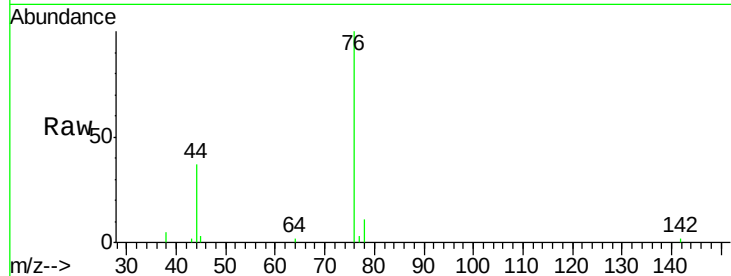
76 100

78 10.7 7.3 10.9

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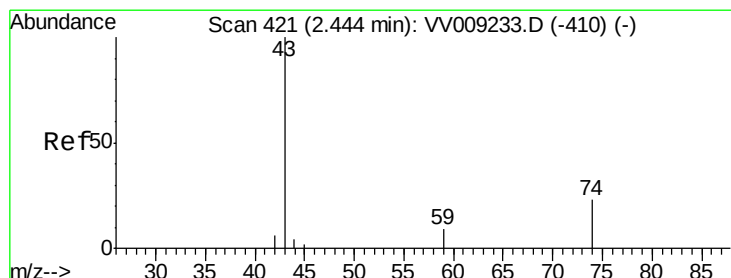
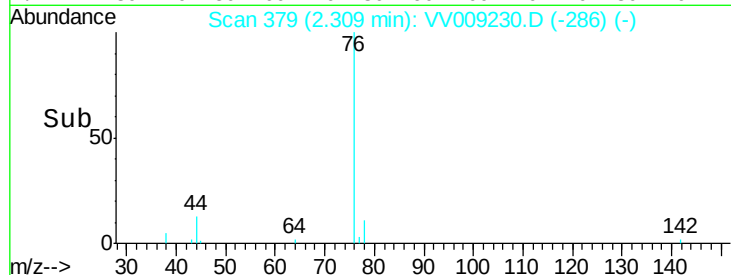
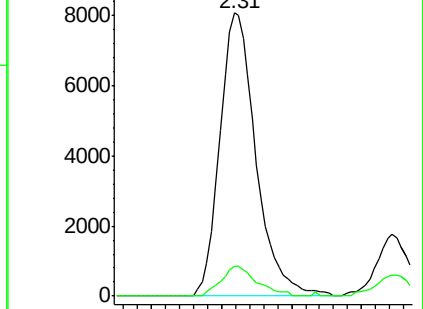
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Abundance Ion 75.90 (75.60 to 76.60): VV009230.D (-286) (-)

Ion 77.90 (77.60 to 78.60): VV009230.D (-286) (-)



#18

Methyl Acetate

Concen: 5.905 ug/l

RT: 2.45 min Scan# 422

Delta R.T. 0.00 min

Lab File: VV009230.D

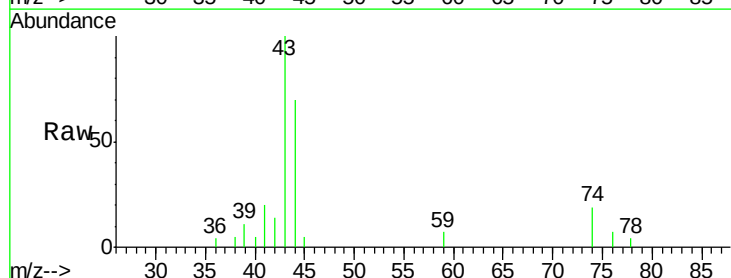
Acq: 22 Jan 2019 11:58

Tgt Ion: 43 Resp: 4520

Ion Ratio Lower Upper

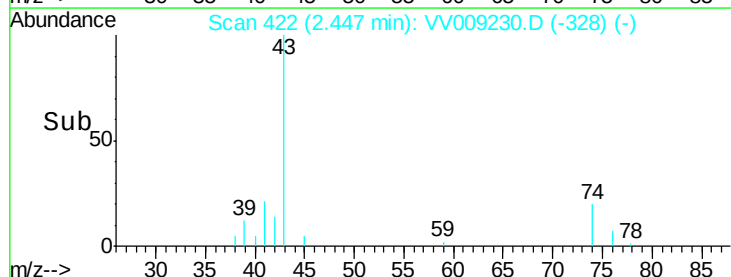
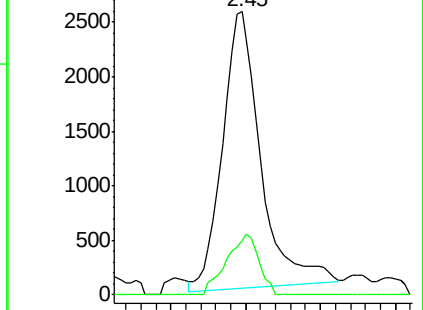
43 100

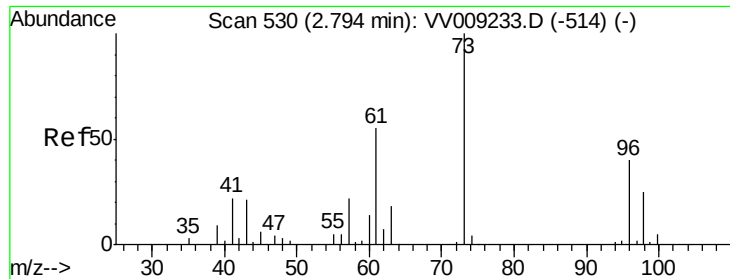
74 18.5 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VV009230.D (-328) (-)

Ion 74.00 (73.70 to 74.70): VV009230.D (-328) (-)





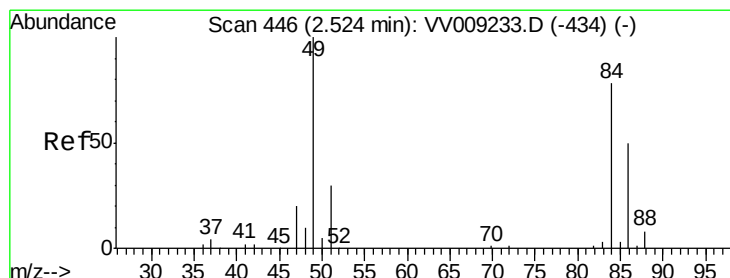
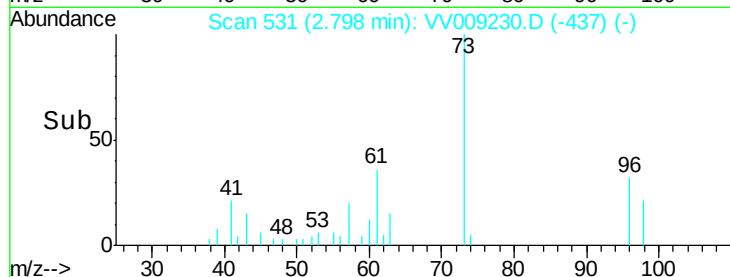
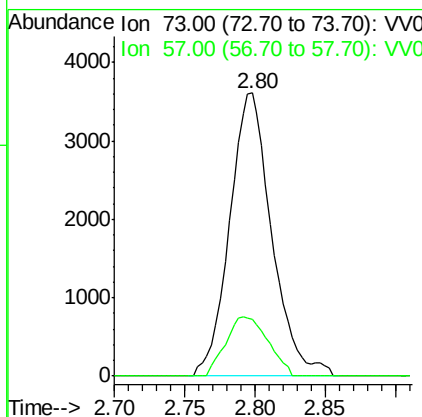
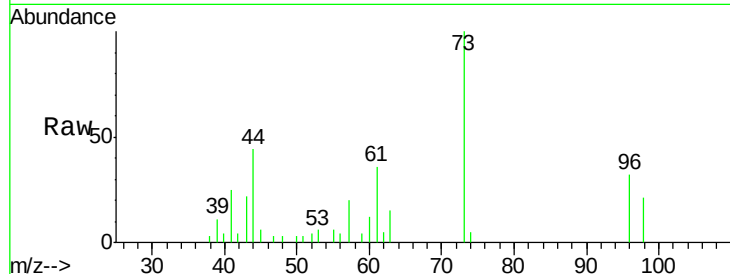
#19
Methyl tert-butyl Ether
Concen: 5.221 ug/l
RT: 2.80 min Scan# 531
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 7532
Ion Ratio Lower Upper
73 100
57 20.1 18.0 27.0

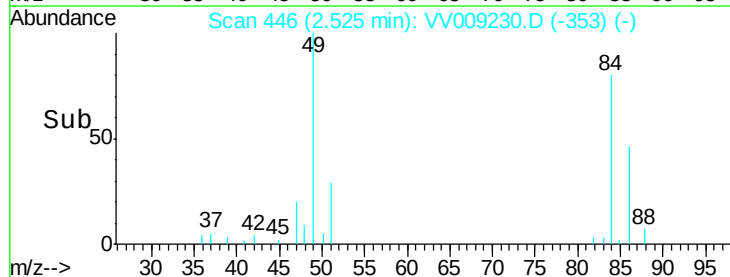
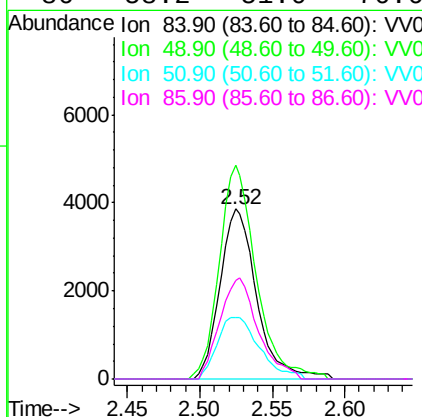
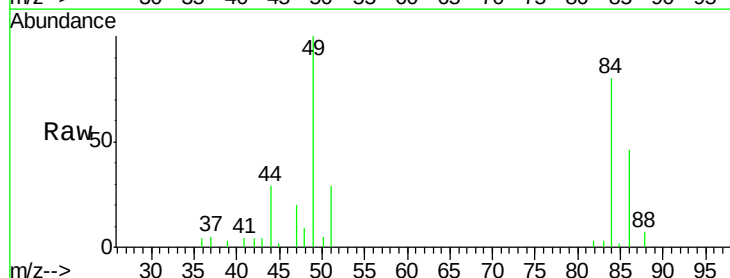
Manual Integrations
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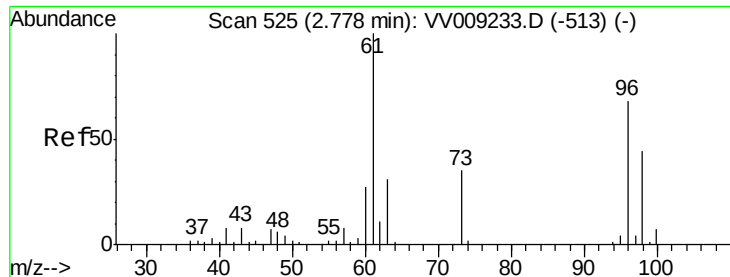
MMDadoda
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#20
Methylene Chloride
Concen: 6.057 ug/l
RT: 2.52 min Scan# 446
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion: 84 Resp: 6751
Ion Ratio Lower Upper
84 100
49 125.5 102.0 153.0
51 36.3 30.9 46.3
86 58.2 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 5.102 ug/l

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 5081

Ion Ratio Lower Upper

96 100

61 149.9 117.7 176.5

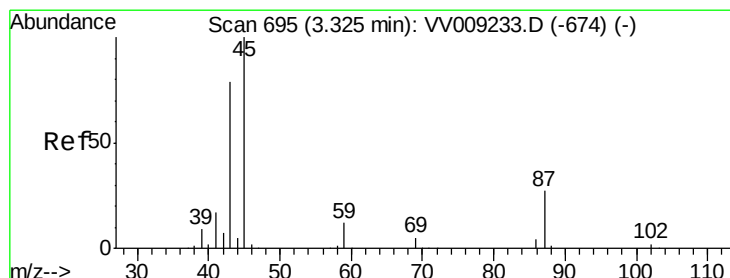
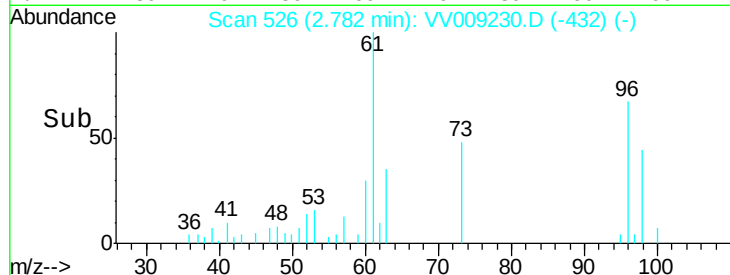
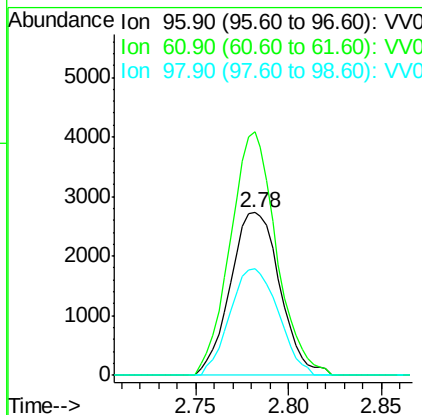
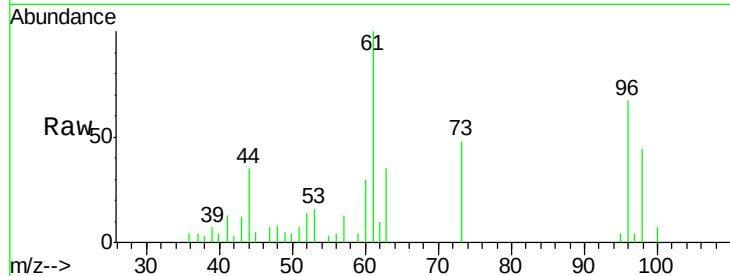
98 65.7 51.5 77.3

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#22

Diisopropyl ether

Concen: 4.641 ug/l

RT: 3.33 min Scan# 695

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Tgt Ion: 45 Resp: 16730

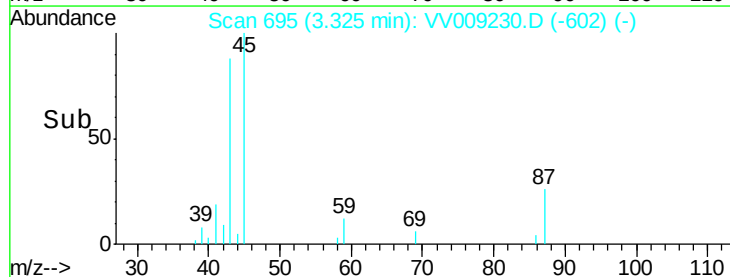
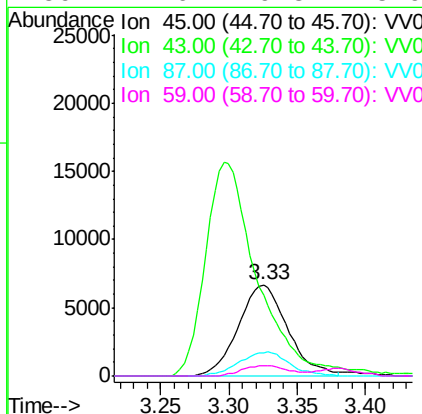
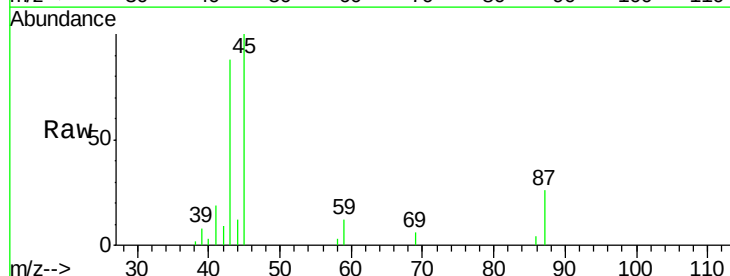
Ion Ratio Lower Upper

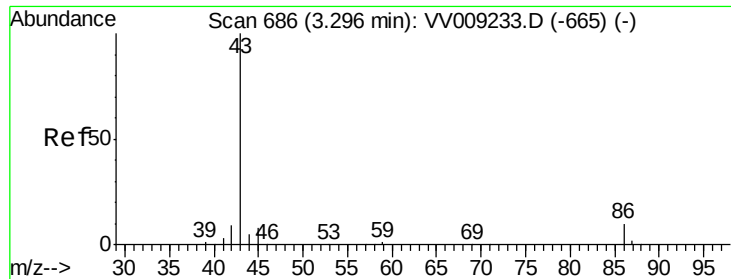
45 100

43 78.5 63.0 94.4

87 25.9 21.5 32.3

59 11.6 9.3 13.9





#23

Vinyl Acetate

Concen: 21.052 ug/l

RT: 3.30 min Scan# 686

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 41888

Ion Ratio Lower Upper

43 100

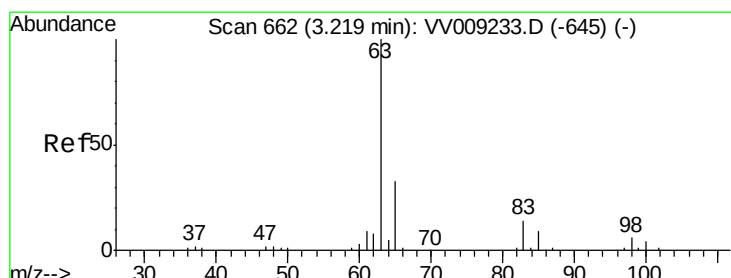
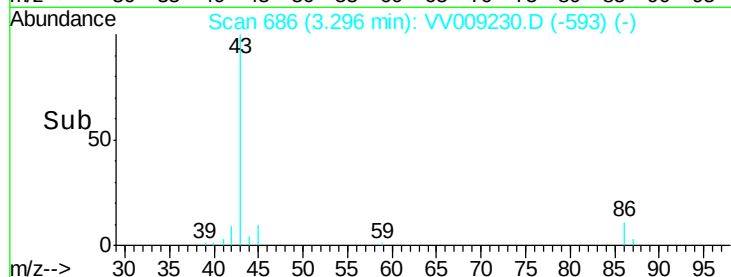
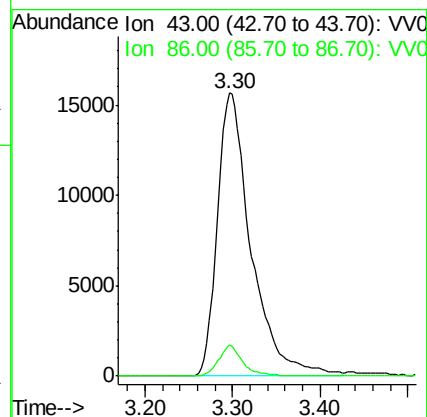
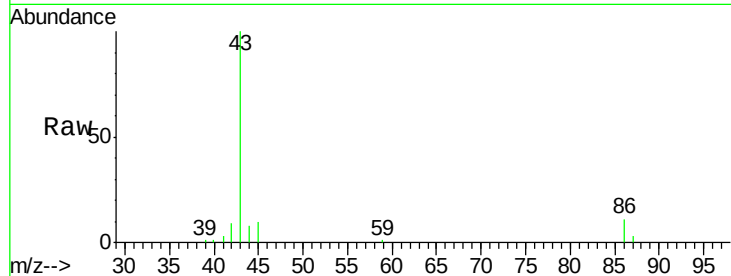
86 11.1 8.1 12.1

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 4.951 ug/l

RT: 3.22 min Scan# 662

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

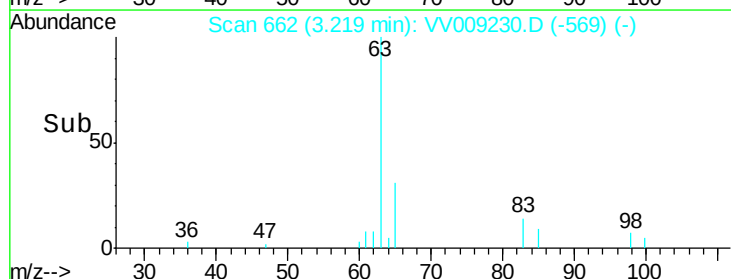
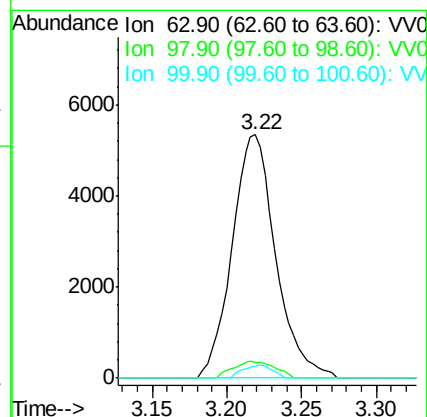
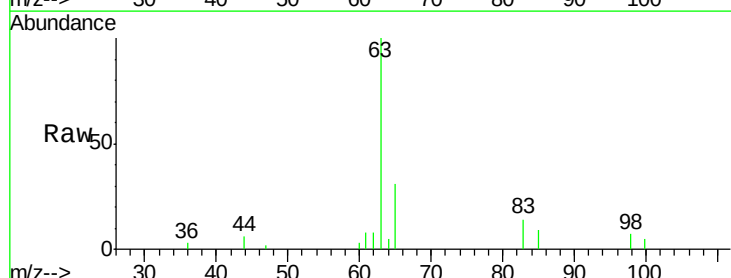
Tgt Ion: 63 Resp: 10827

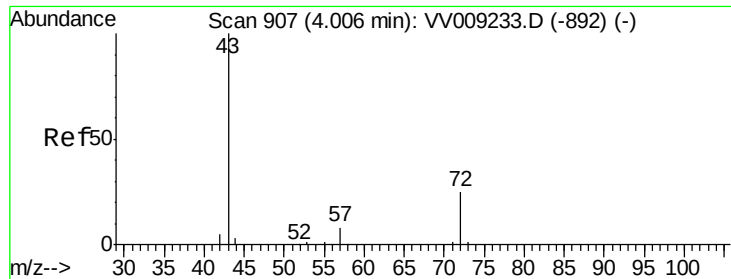
Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.8

100 4.7 2.2 6.6





#25

2-Butanone

Concen: 21.175 ug/l

RT: 4.01 min Scan# 909

Delta R.T. 0.01 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Tot Ion: 43 Resp: 7403

Ion Ratio Lower Upper

43 100

72 21.0 20.2 30.4

Instrument :

MSVOA_V

ClientSampleId :

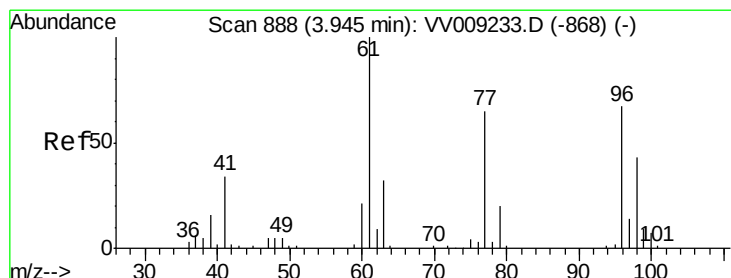
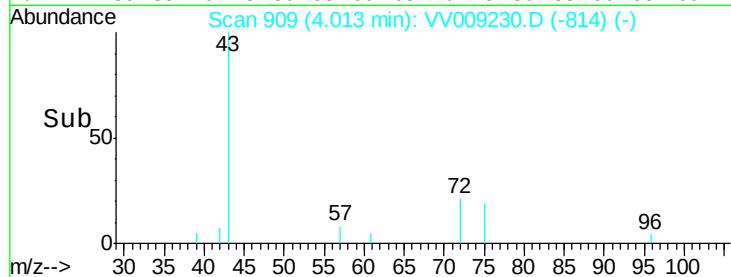
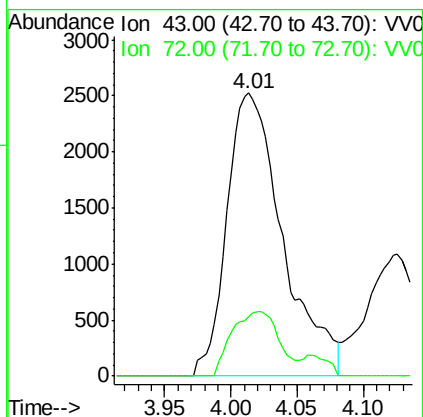
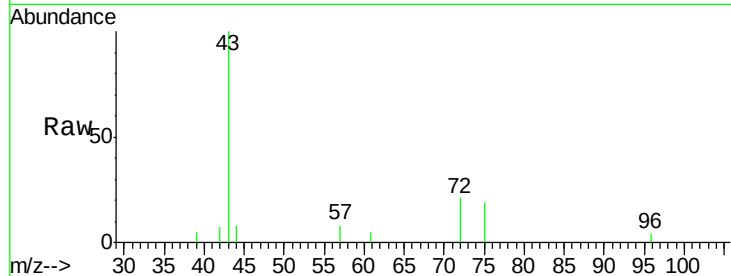
VSTDIC005

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 4.599 ug/l

RT: 3.94 min Scan# 887

Delta R.T. -0.00 min

Lab File: VV009230.D

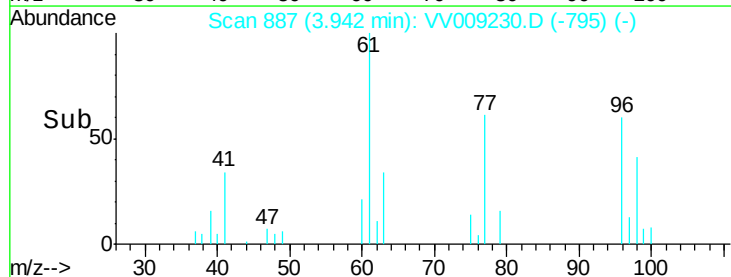
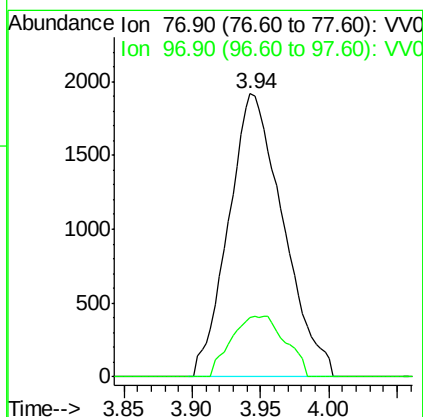
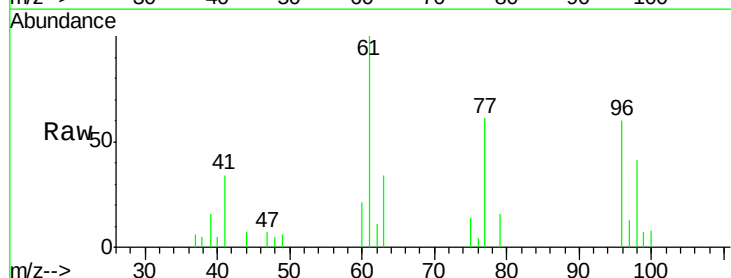
Acq: 22 Jan 2019 11:58

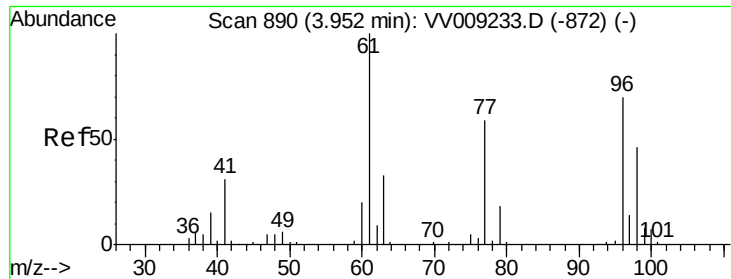
Tgt Ion: 77 Resp: 5317

Ion Ratio Lower Upper

77 100

97 21.2 10.9 32.6





#27

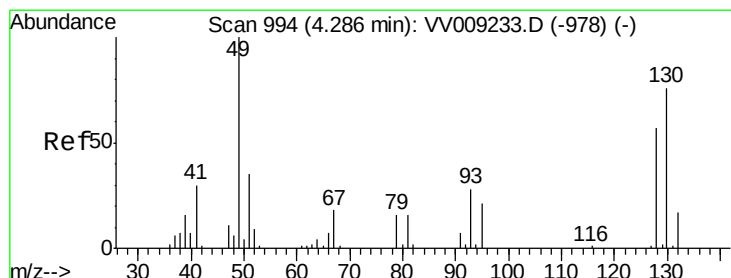
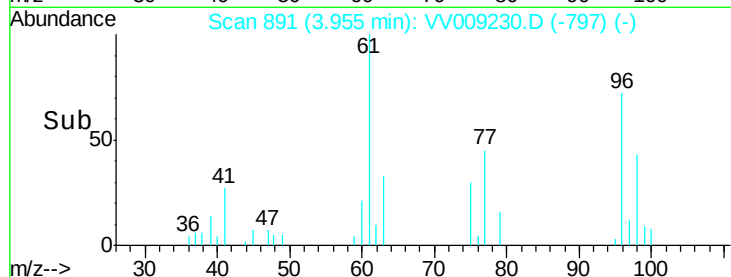
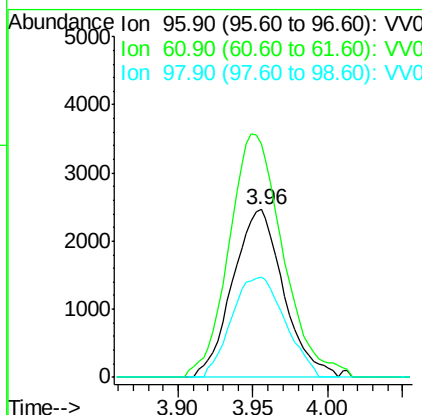
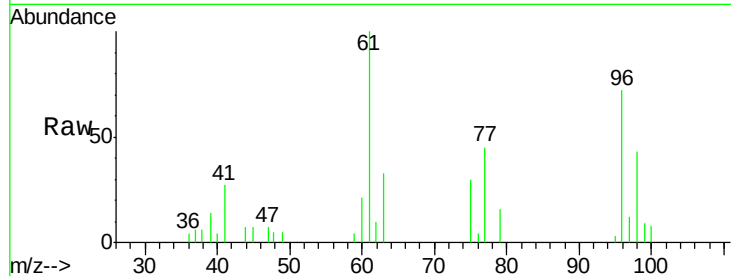
cis-1,2-Dichloroethene
Concen: 4.647 ug/l
RT: 3.96 min Scan# 891
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.4	0.0	296.4
98	62.6	0.0	130.0

Manual Integrations
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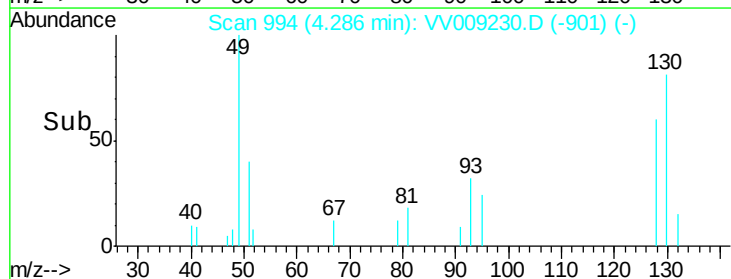
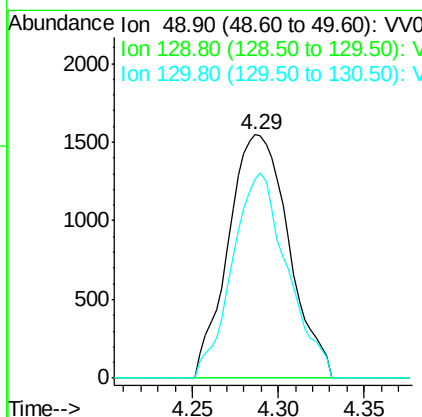
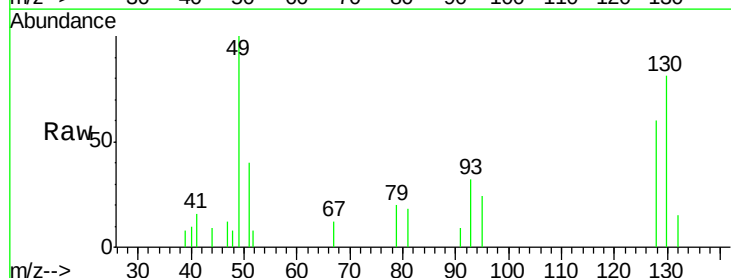
MMDadoda
1/24/2019 11:43:36 AM

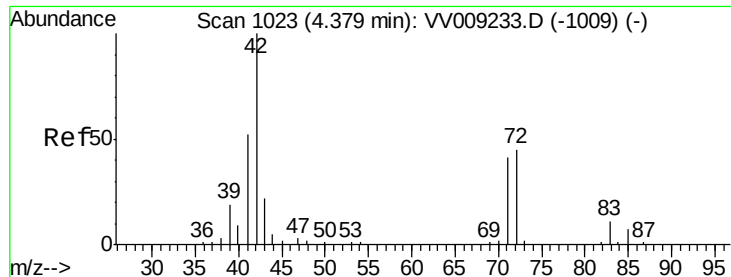


#28

Bromochloromethane
Concen: 4.499 ug/l
RT: 4.29 min Scan# 994
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	76.6	60.2	90.4





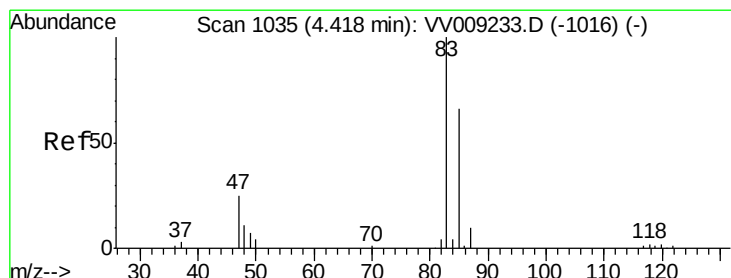
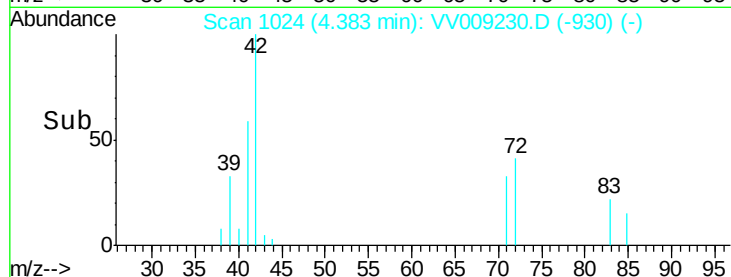
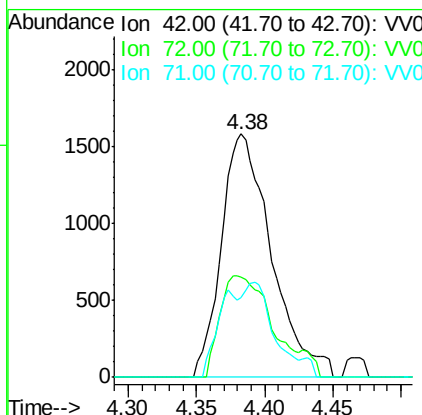
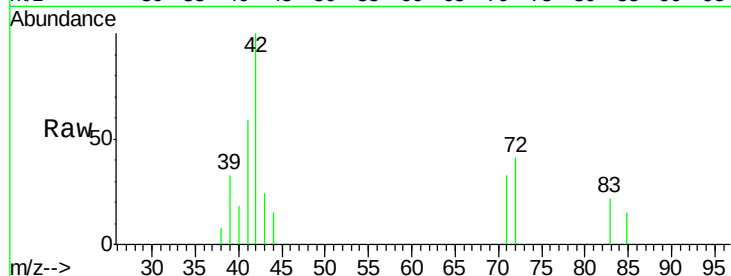
#29
Tetrahydrofuran
Concen: 20.216 ug/l
RT: 4.38 min Scan# 1024
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.6	37.7	56.5
71	14.7	31.5	47.3#

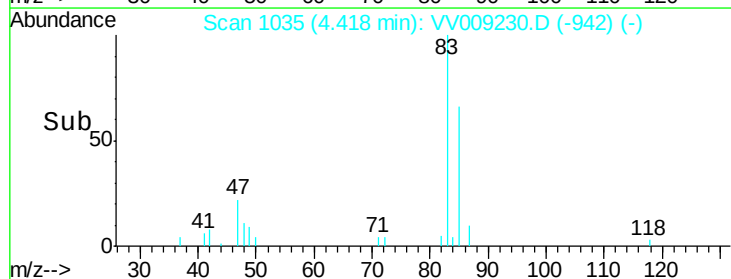
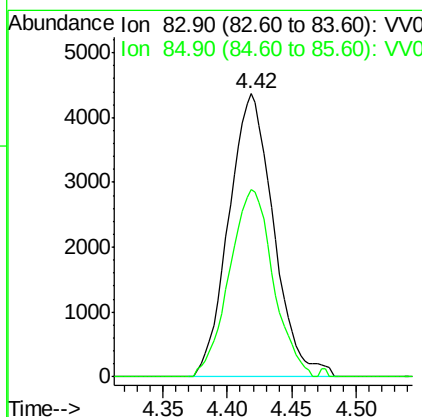
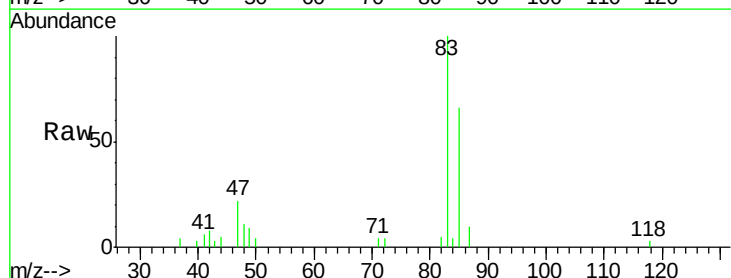
Manual Integrations
APPROVED

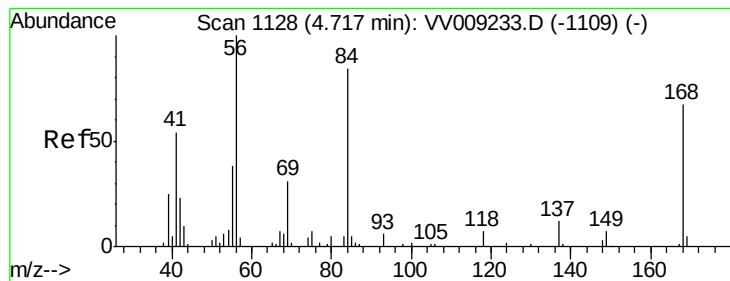
MMDadoda
1/24/2019 11:43:36 AM



#30
Chloroform
Concen: 4.643 ug/l
RT: 4.42 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.6	79.0





#31

Cyclohexane

Concen: 5.695 ug/l

RT: 4.72 min Scan# 1129

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 11098

Ion Ratio Lower Upper

56 100

69 56.7 25.1 37.7#

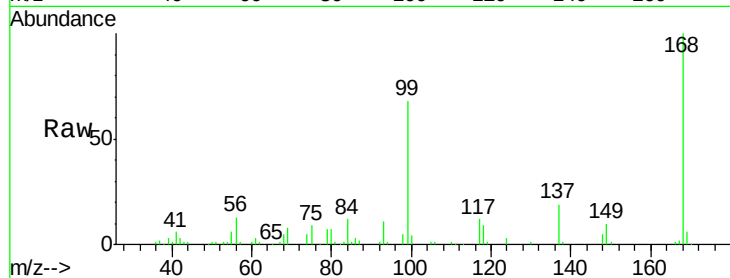
84 92.9 67.3 100.9

Manual Integrations

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MMDadoda

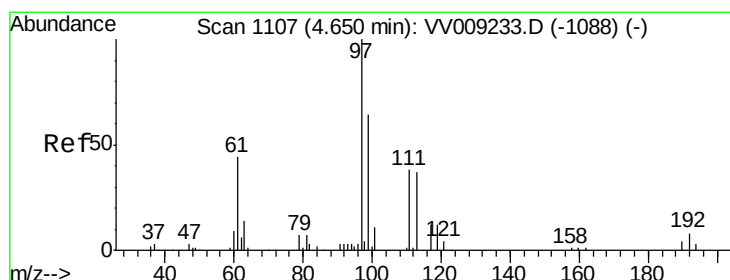
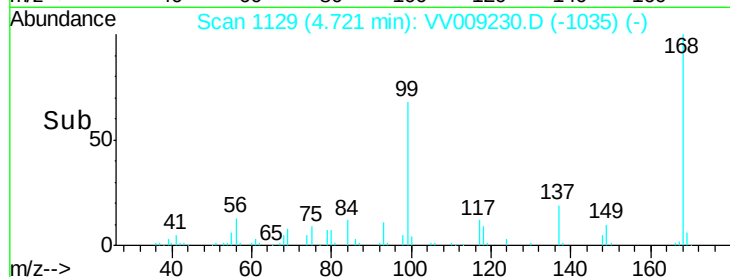
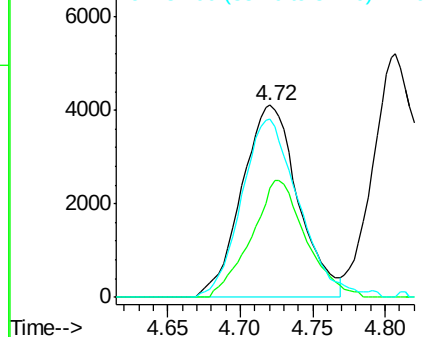
1/24/2019 11:43:36 AM



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: 4.811 ug/l

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

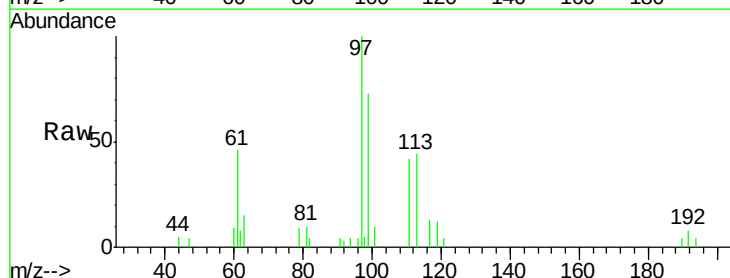
Tgt Ion: 97 Resp: 8723

Ion Ratio Lower Upper

97 100

99 63.6 50.2 75.2

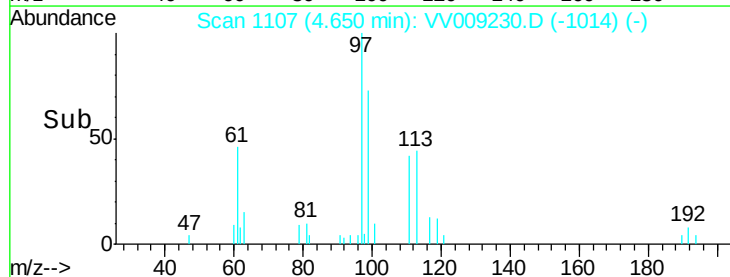
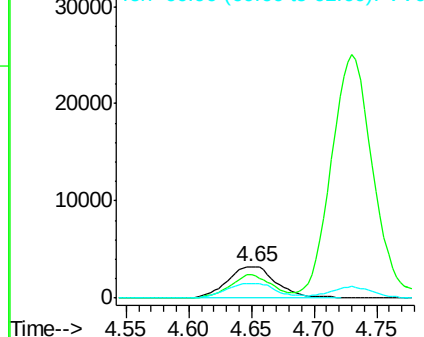
61 48.3 34.7 52.1

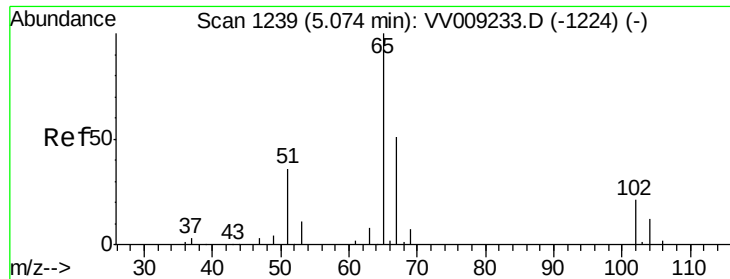


Abundance Ion 96.90 (96.60 to 97.60): VV009233.D (-1088) (-)

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

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





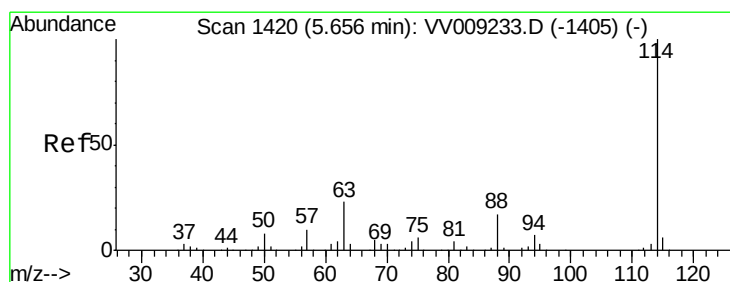
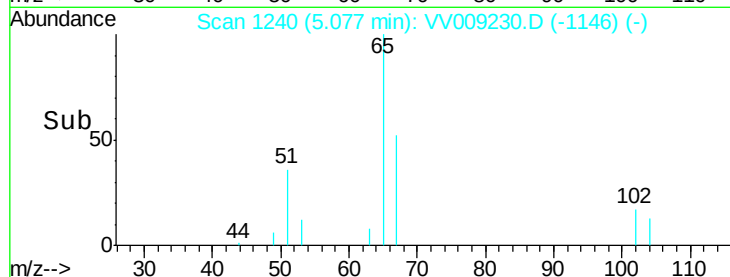
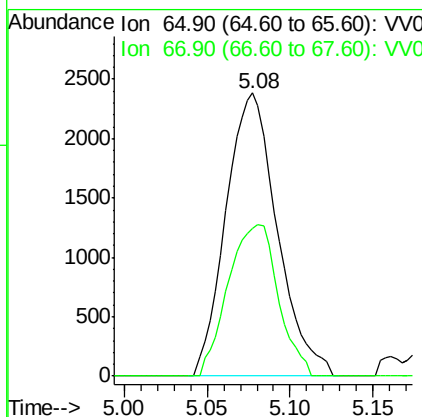
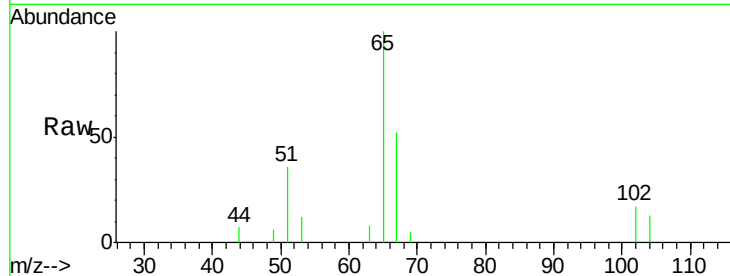
#33
 1,2-Dichloroethane-d4
 Concen: 4.257 ug/l
 RT: 5.08 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleID :
 VSTDIC005

Tot Ion: 65 Resp: 5132
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 102.8

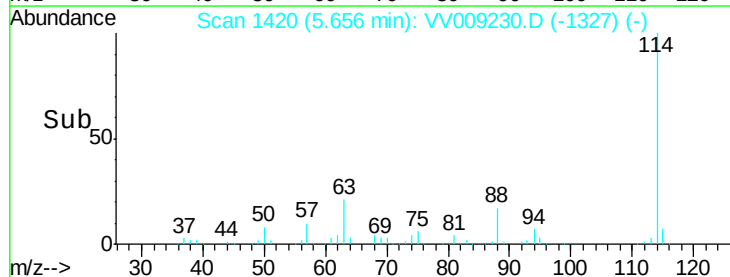
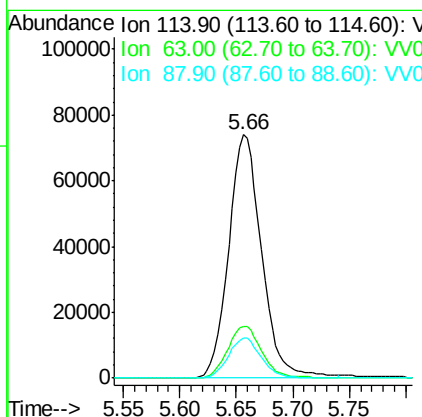
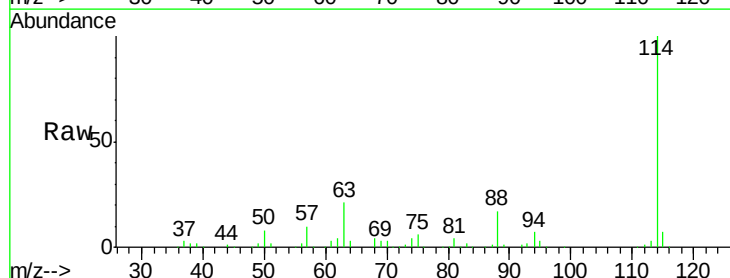
Manual Integrations
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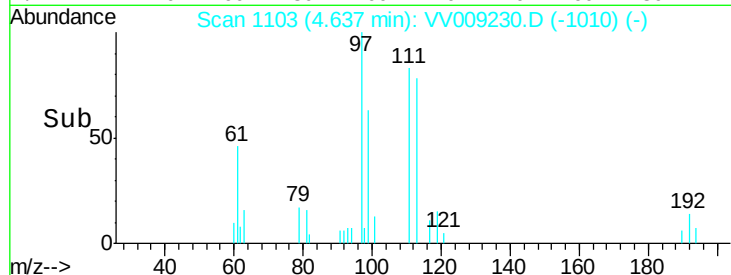
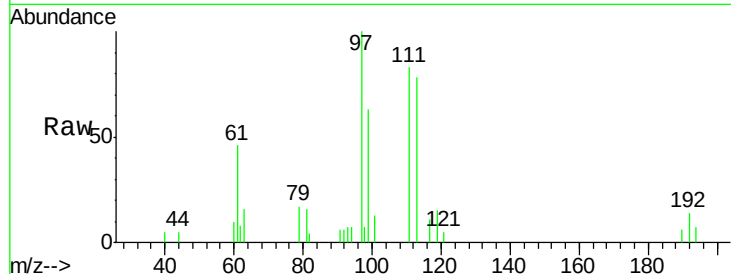
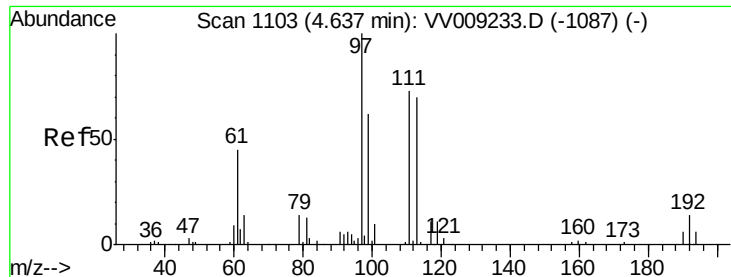
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 1/24/2019 11:43:36 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.66 min Scan# 1420
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Tgt Ion: 114 Resp: 150139
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 45.2
 88 16.6 0.0 33.4





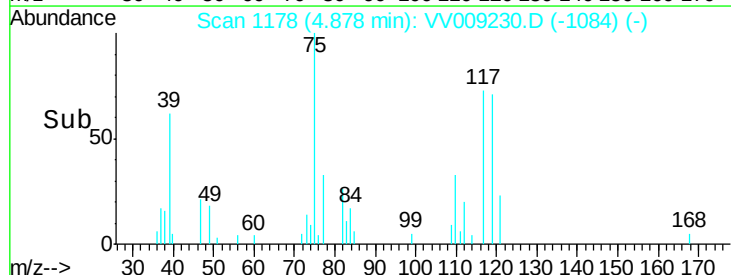
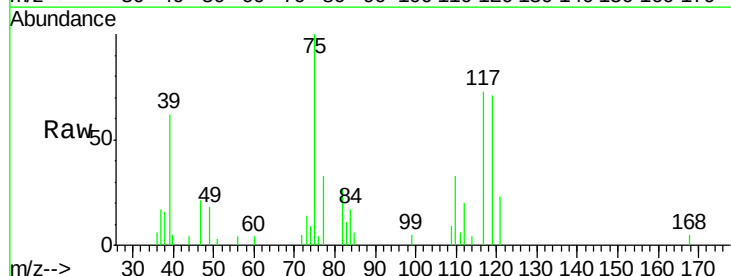
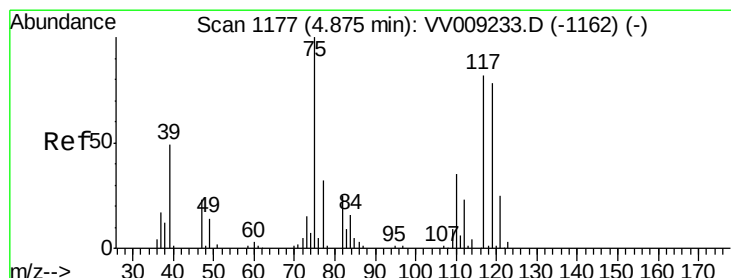
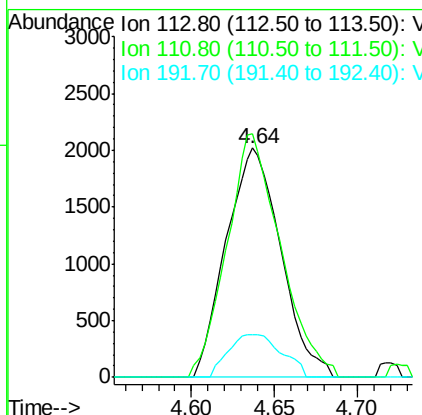
#35
Dibromofluoromethane
Concen: 4.648 ug/l
RT: 4.64 min Scan# 1103
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tot Ion	Ratio	Resp	Lower	Upper
113	100	4628		
111	104.2		82.4	123.6
192	18.1		15.0	22.6

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

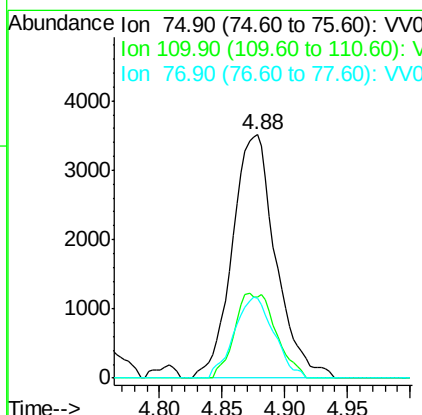
Manual Integrations
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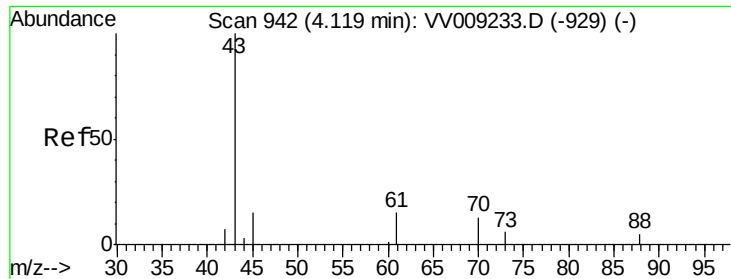
MMDadoda
1/24/2019 11:43:36 AM



#36
1,1-Dichloropropene
Concen: 5.200 ug/l
RT: 4.88 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	8453		
110	33.1		17.5	52.5
77	30.3		25.5	38.3





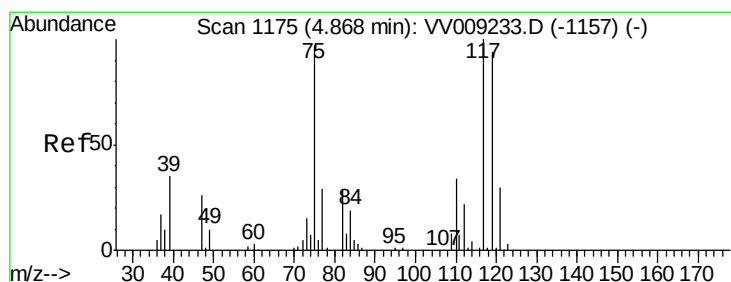
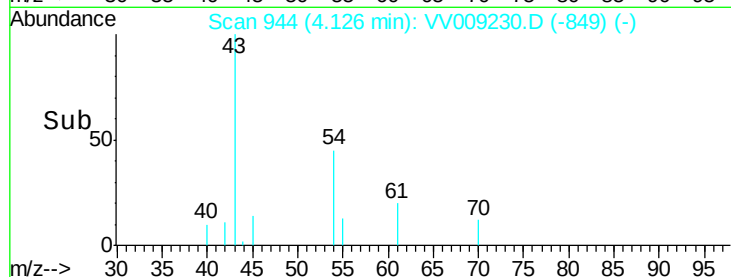
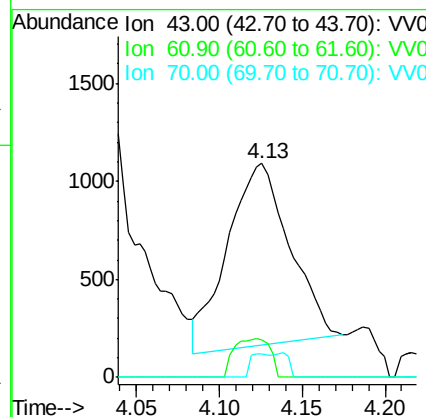
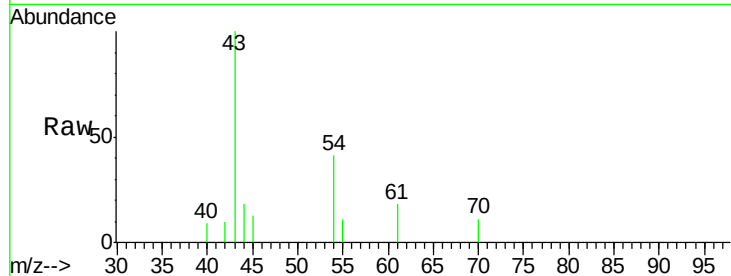
#37
Ethyl Acetate
Concen: 3.584 ug/l
RT: 4.13 min Scan# 944
Delta R.T. 0.01 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	12.0	12.0	18.0
70	3.7	8.7	13.1

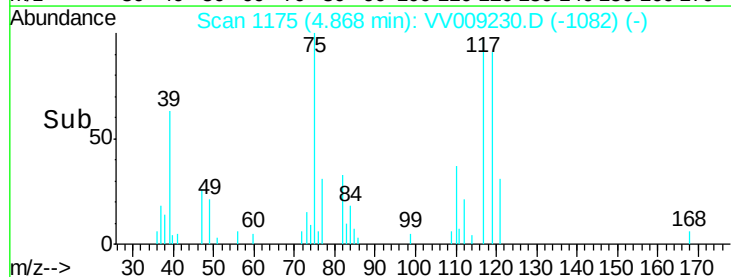
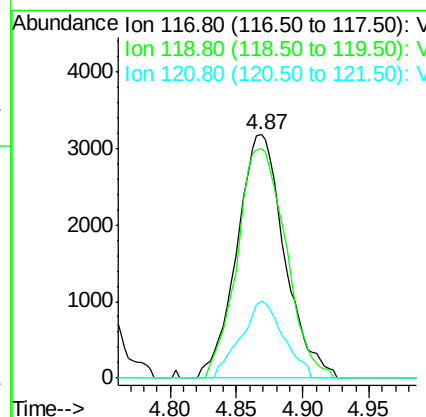
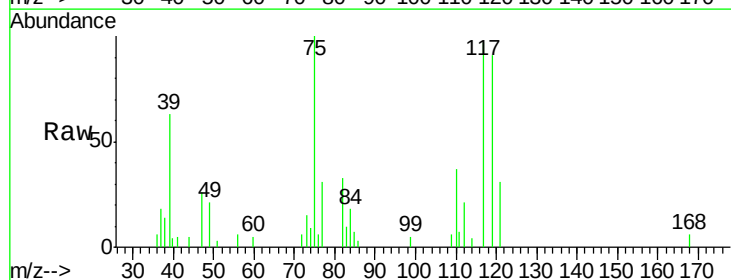
Manual Integrations
APPROVED

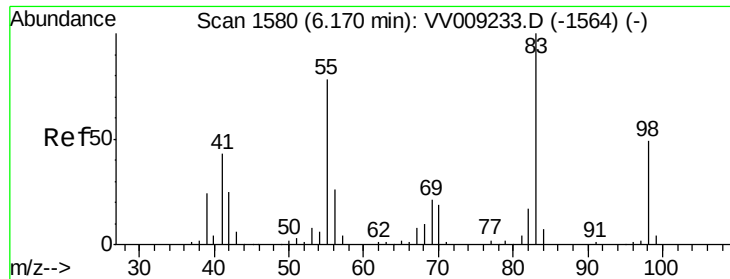
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#38
Carbon Tetrachloride
Concen: 4.926 ug/l
RT: 4.87 min Scan# 1175
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.1	75.4	113.2
121	31.7	24.2	36.2





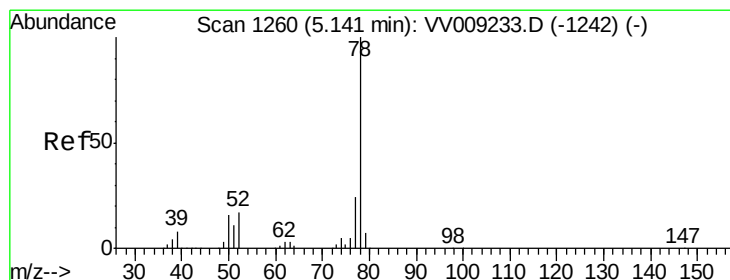
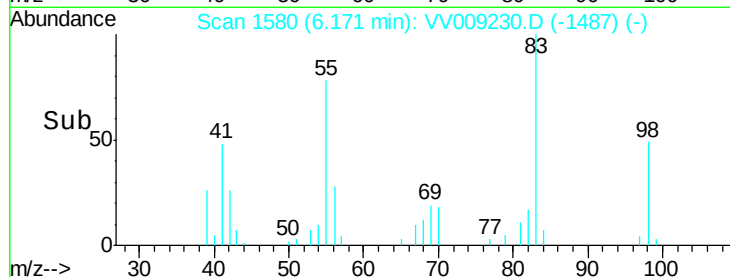
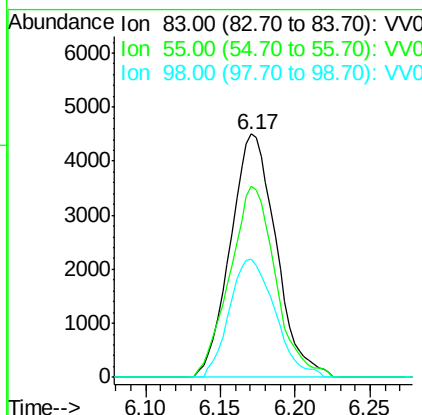
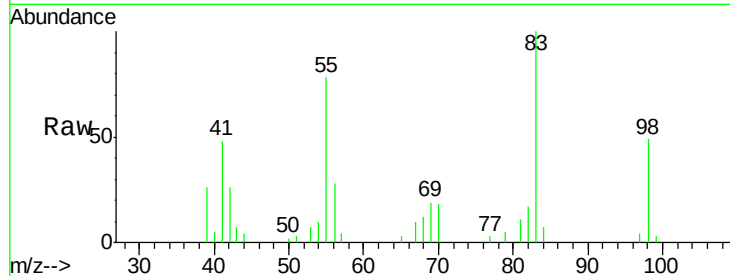
#39
Methylvlcyclohexane
Concen: 5.123 ug/l
RT: 6.17 min Scan# 1580
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	78.4	62.8	94.2
98	48.7	39.1	58.7

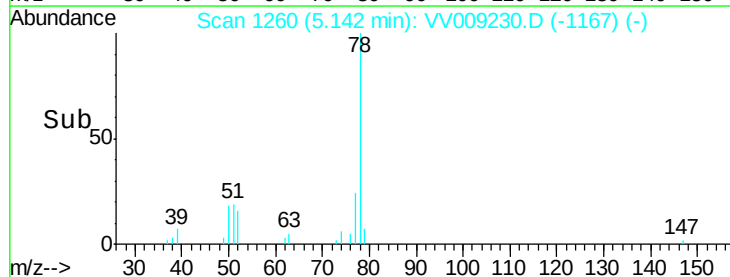
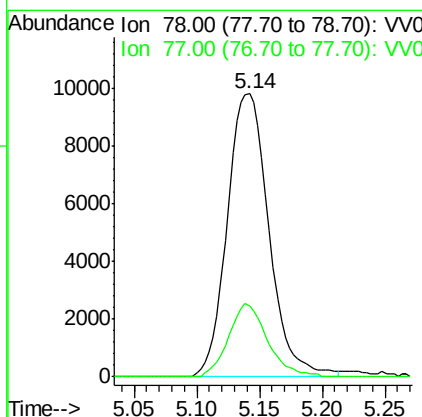
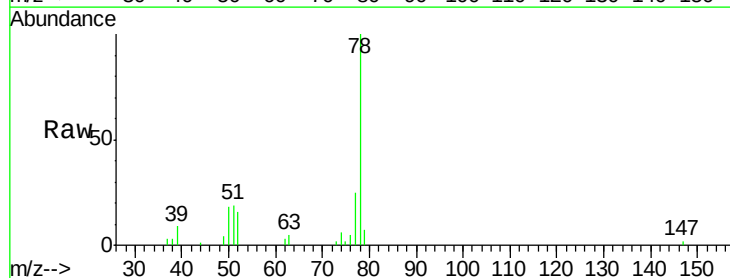
Manual Integrations
APPROVED

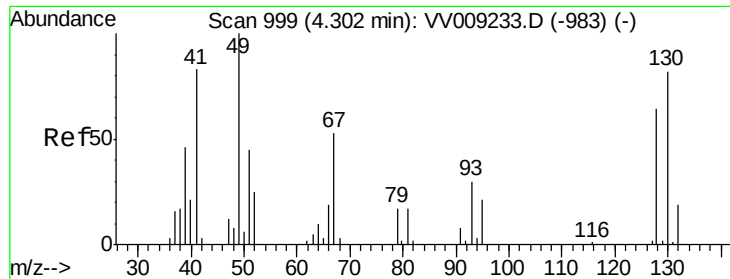
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#40
Benzene
Concen: 4.943 ug/l
RT: 5.14 min Scan# 1260
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	19.4	29.2





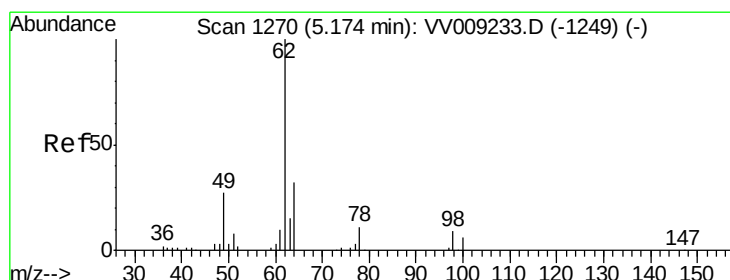
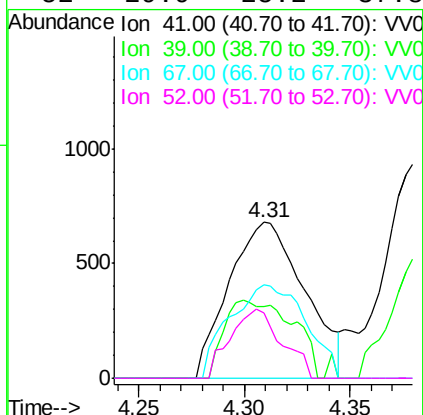
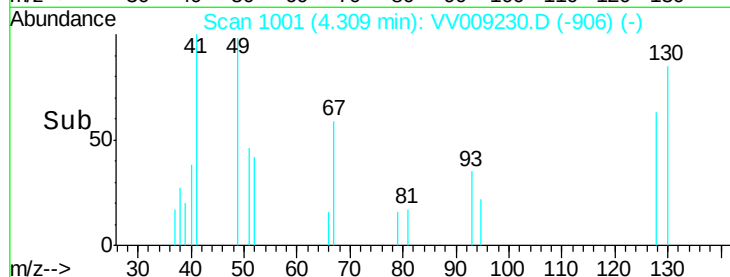
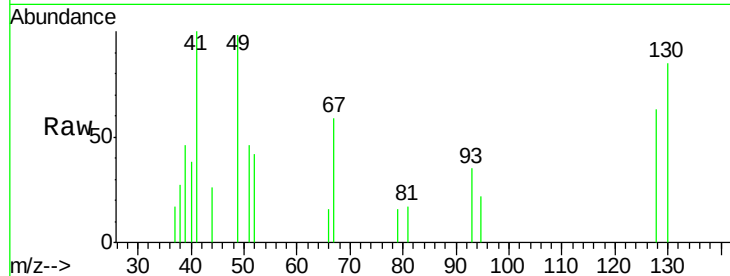
#41
Methacrylonitrile
Concen: 4.260 ug/l
RT: 4.31 min Scan# 1001
Delta R.T. 0.01 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
41	100		
39	45.1	45.4	68.0#
67	59.9	55.5	83.3
52	29.9	25.2	37.8

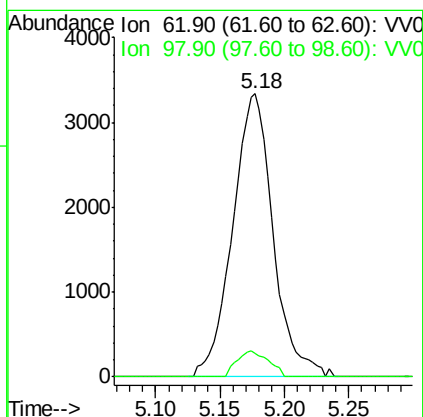
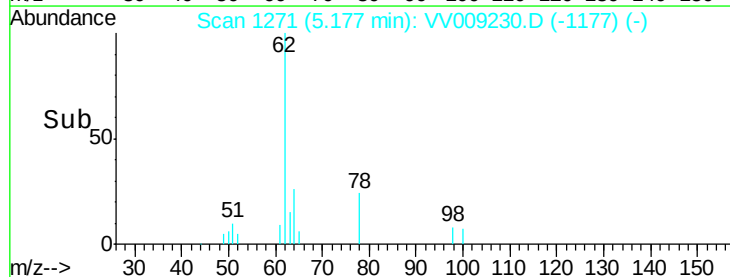
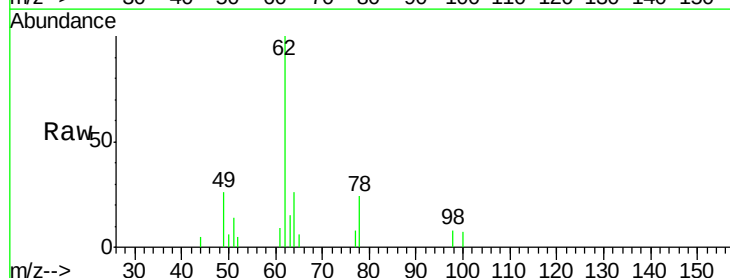
Manual Integrations
APPROVED

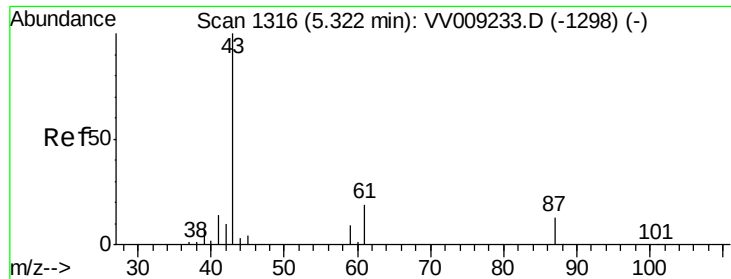
MMDadoda
1/24/2019 11:43:36 AM



#42
1,2-Dichloroethane
Concen: 4.763 ug/l
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.1	0.0	16.4





#43

Isopropyl Acetate

Concen: 4.026 ug/l

RT: 5.32 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

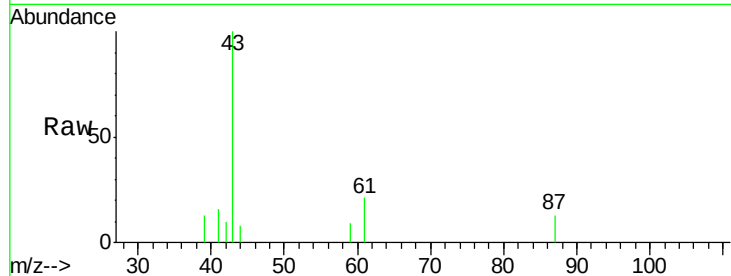
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	5432
Ion	Ratio	Lower	Upper
43	100		
61	20.0	15.4	23.0
87	10.4	9.9	14.9

Manual Integrations
APPROVED

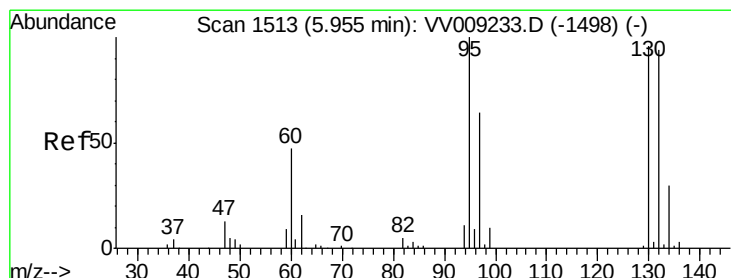
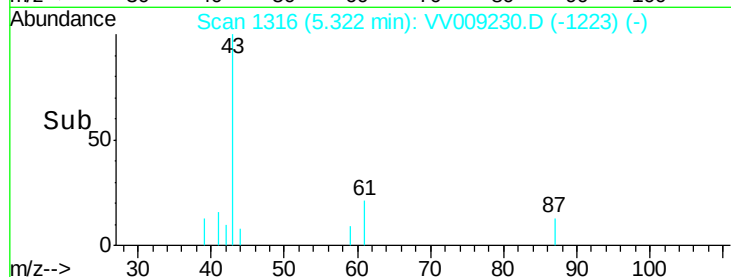
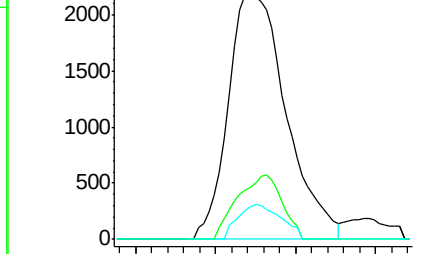
MMDadoda
1/24/2019 11:43:36 AM



Abundance Ion 43.00 (42.70 to 43.70): VV009233.D (-1298) (-)

Ion 61.00 (60.70 to 61.70): VV009233.D (-1298) (-)

Ion 87.00 (86.70 to 87.70): VV009233.D (-1298) (-)



#44

Trichloroethene

Concen: 5.320 ug/l

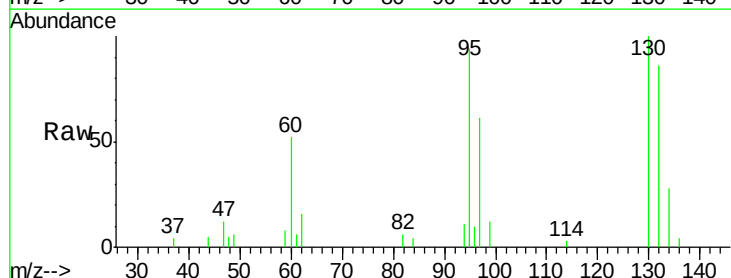
RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV009230.D

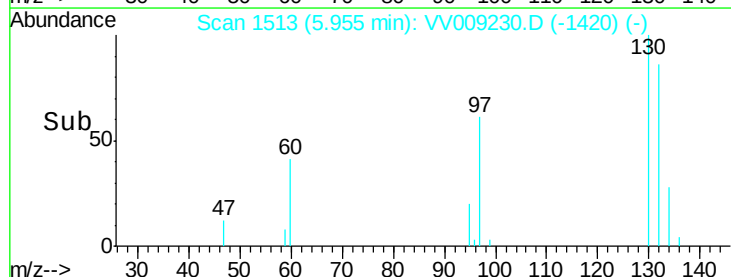
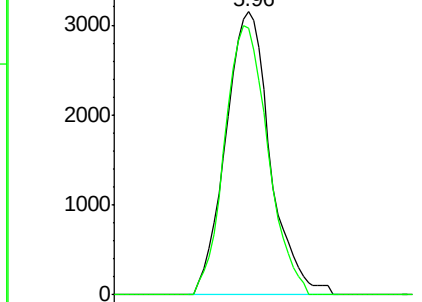
Acq: 22 Jan 2019 11:58

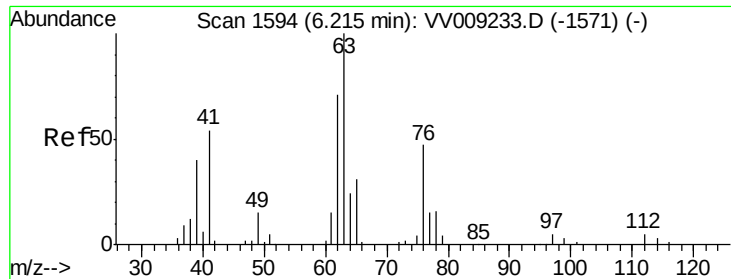
Tgt Ion:	130	Resp:	6290
Ion	Ratio	Lower	Upper
130	100		
95	94.2	0.0	208.2



Abundance Ion 129.80 (129.50 to 130.50): VV009233.D (-1498) (-)

Ion 94.90 (94.60 to 95.60): VV009233.D (-1498) (-)





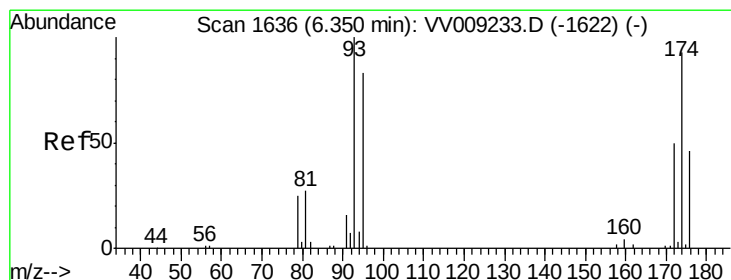
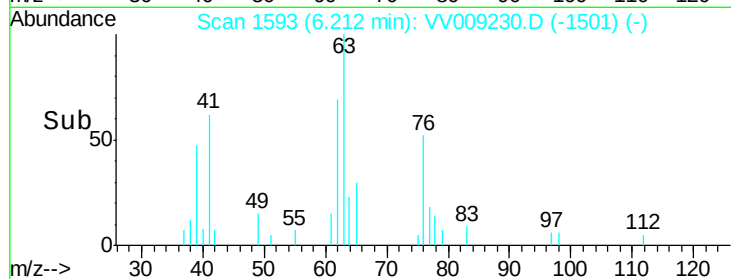
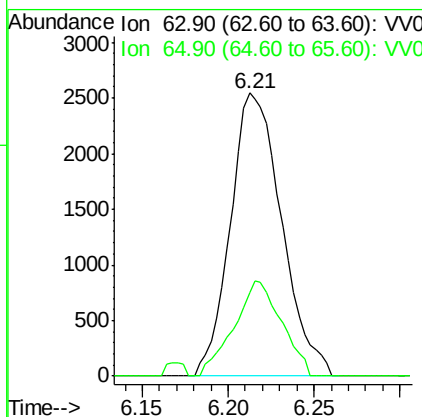
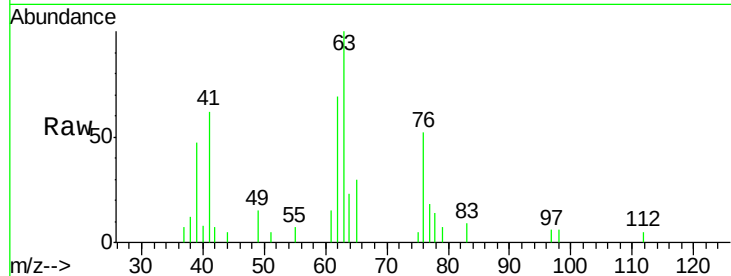
#45
 1,2-Dichloropropane
 Concen: 4.702 ug/l
 RT: 6.21 min Scan# 1593
 Delta R.T. -0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 5262
 Ion Ratio Lower Upper
 63 100
 65 29.6 25.1 37.7

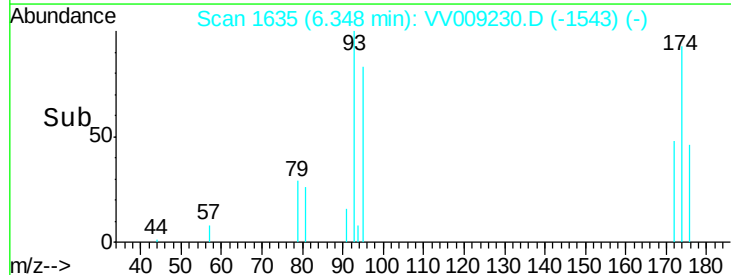
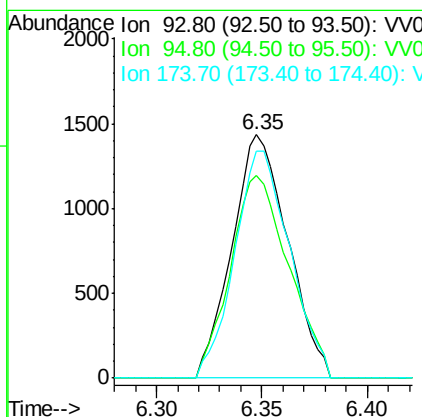
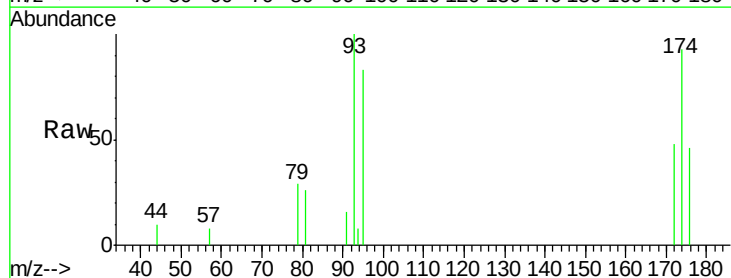
Manual Integrations
 APPROVED

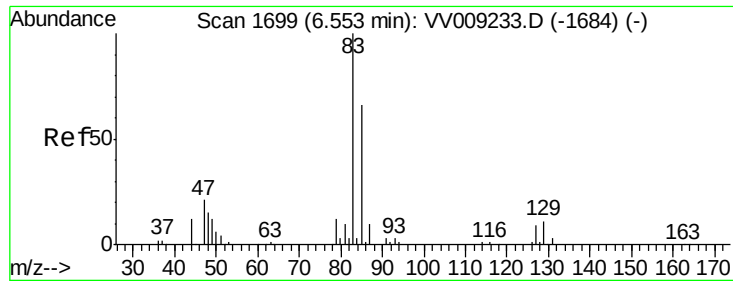
MMDadoda
 1/24/2019 11:43:36 AM



#46
 Dibromomethane
 Concen: 4.328 ug/l
 RT: 6.35 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Tgt Ion: 93 Resp: 2639
 Ion Ratio Lower Upper
 93 100
 95 86.9 64.6 97.0
 174 92.2 74.0 111.0





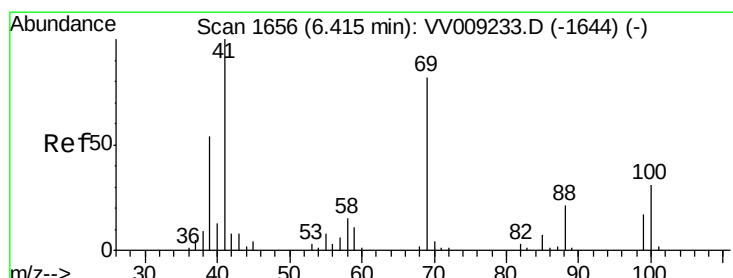
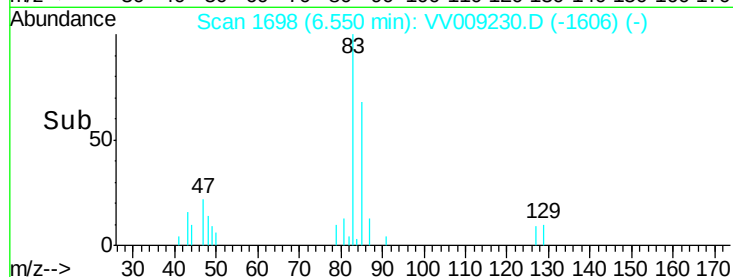
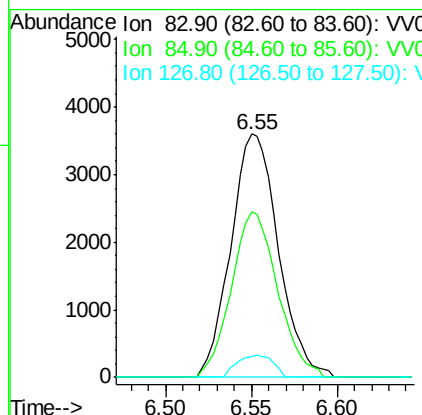
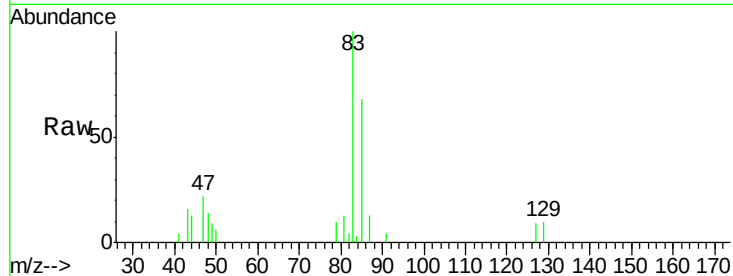
#47
Bromodichloromethane
Concen: 4.358 ug/l
RT: 6.55 min Scan# 1698
Delta R.T. -0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
85	67.8	52.6	78.8
127	8.5	7.0	10.6

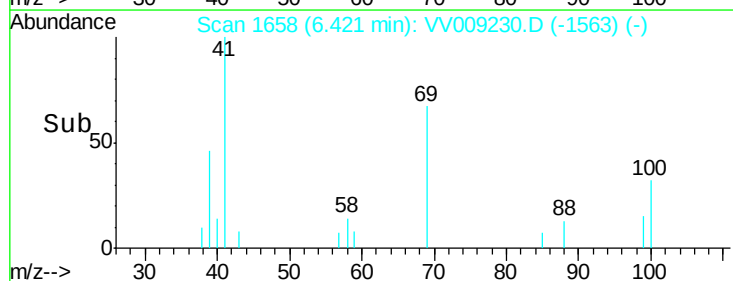
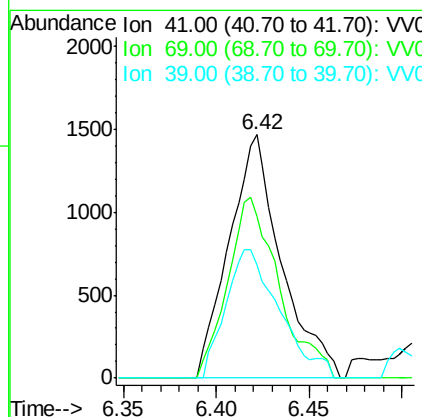
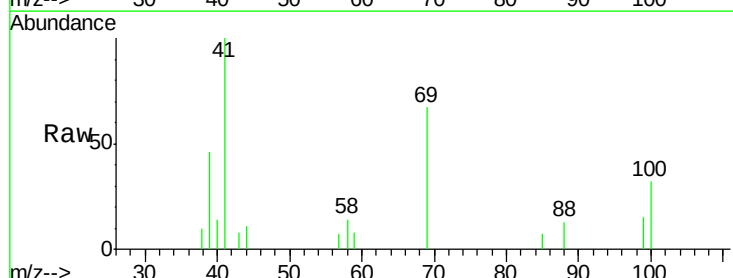
Manual Integrations
APPROVED

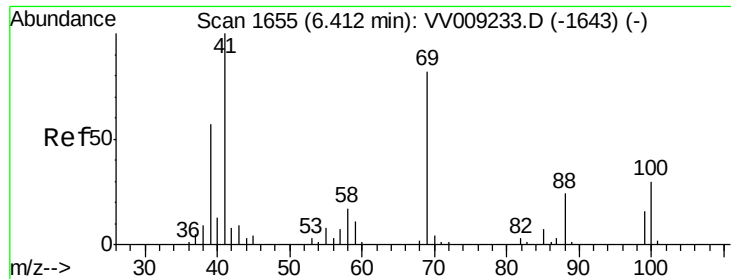
MMDadoda
1/24/2019 11:43:36 AM



#48
Methyl methacrylate
Concen: 4.202 ug/l
RT: 6.42 min Scan# 1658
Delta R.T. 0.01 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
41	100		
69	73.0	65.8	98.6
39	54.1	43.4	65.0





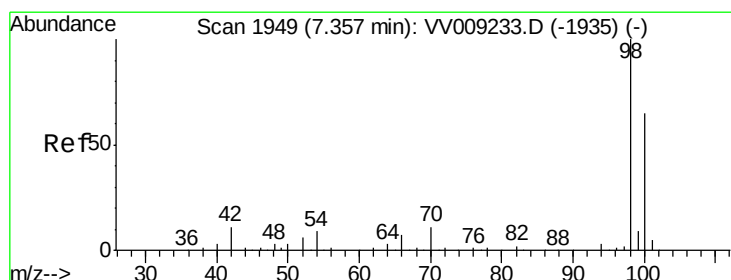
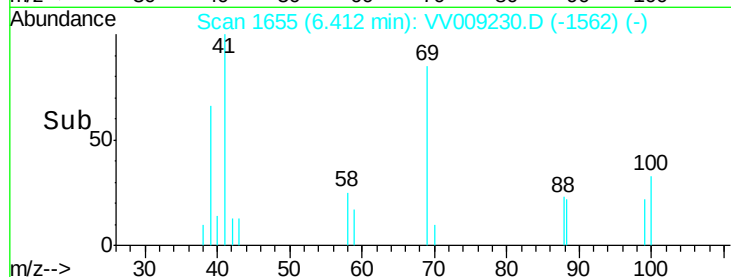
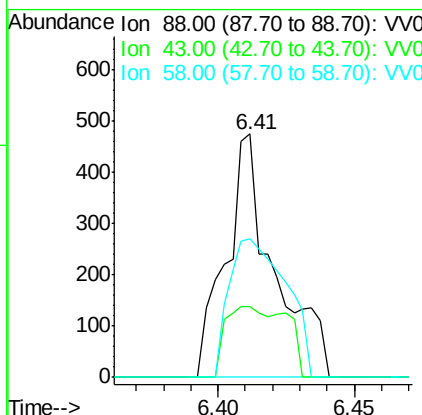
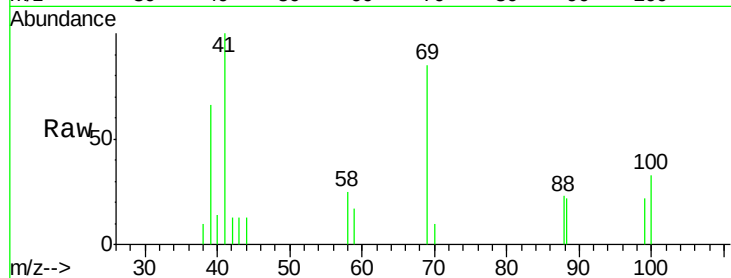
#49
1,4-Dioxane
Concen: 74.325 ug/l
RT: 6.41 min Scan# 1655
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	25.0	31.9	47.9#
58	67.5	62.0	93.0

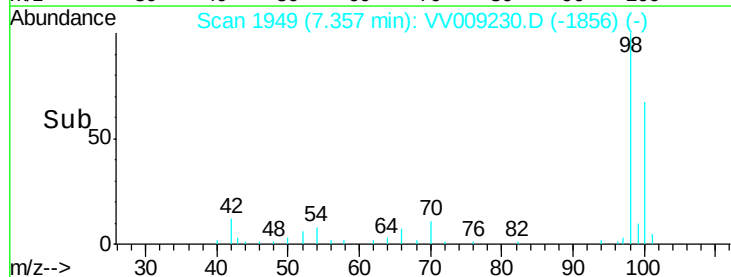
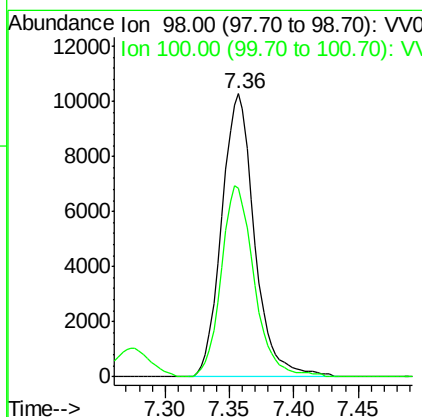
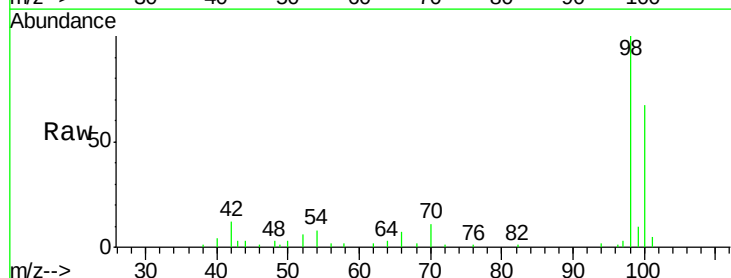
Manual Integrations
APPROVED

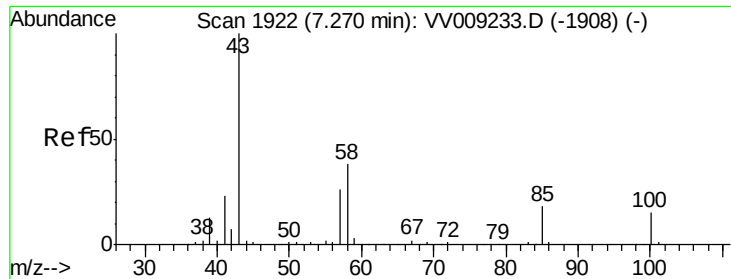
MMDadoda
1/24/2019 11:43:36 AM



#50
Toluene-d8
Concen: 4.747 ug/l
RT: 7.36 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.8	52.2	78.2





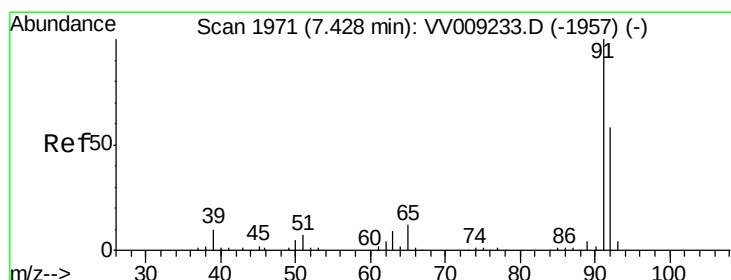
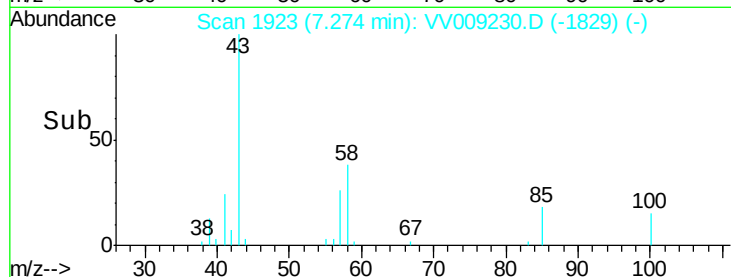
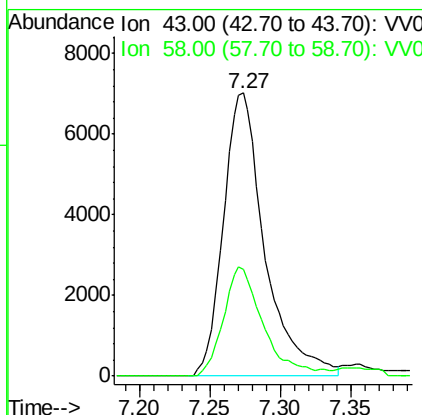
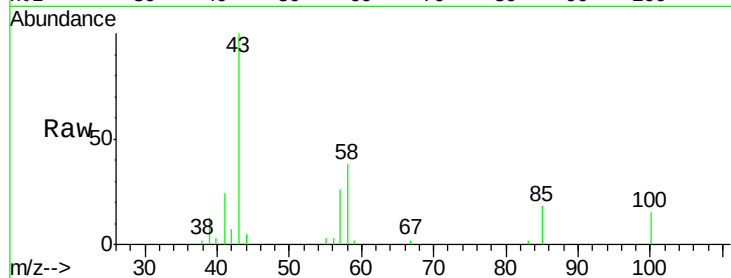
#51
4-Methyl-2-Pentanone
Concen: 21.368 ug/l
RT: 7.27 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion	43	Resp	14423
Ion Ratio	43	100	
Lower	58	36.5	30.4
Upper			45.6

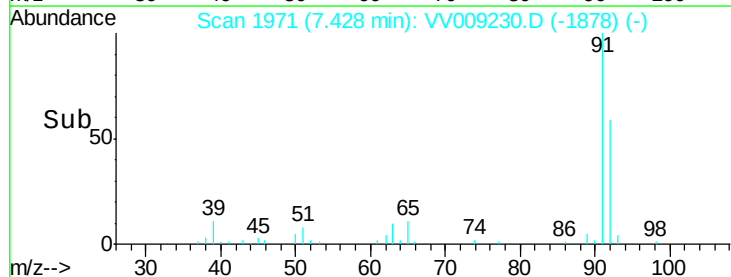
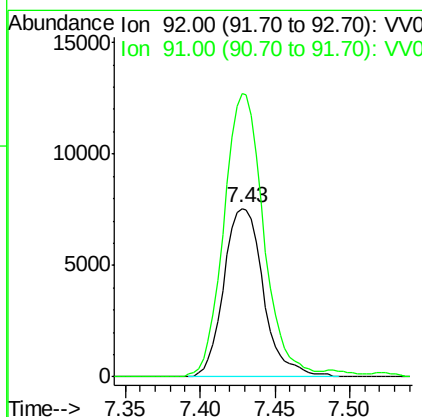
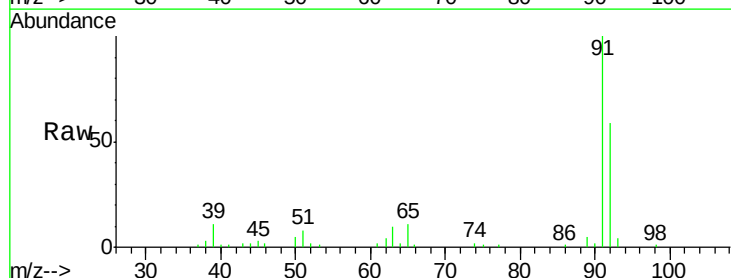
Manual Integrations
APPROVED

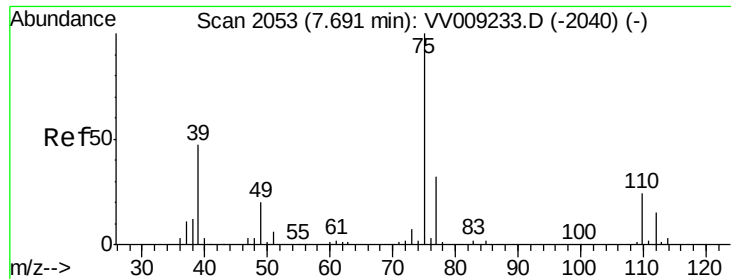
MMDadoda
1/24/2019 11:43:36 AM



#52
Toluene
Concen: 4.833 ug/l
RT: 7.43 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	92	Resp	13930
Ion Ratio	92	100	
Lower	91	168.9	137.2
Upper			205.8





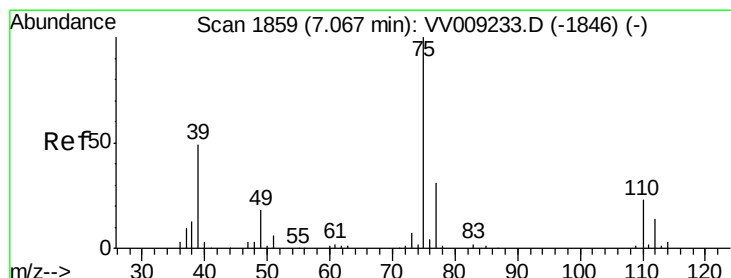
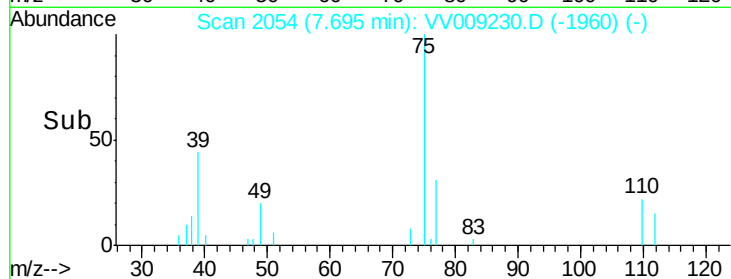
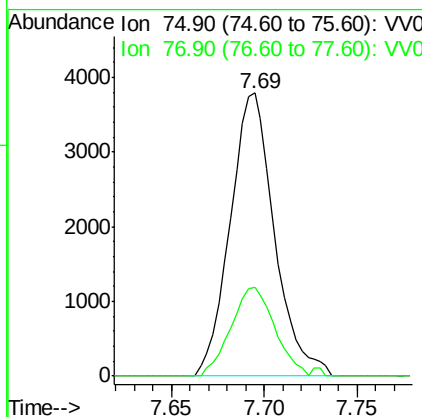
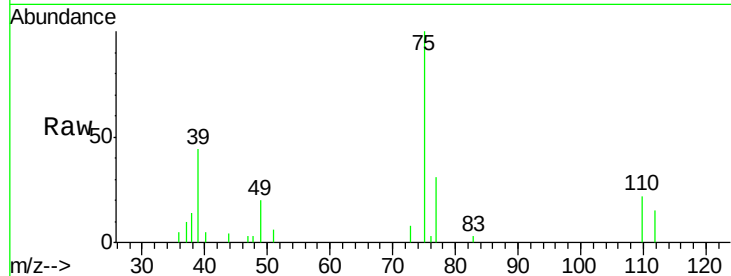
#53
 t-1,3-Dichloropropene
 Concen: 4.049 ug/l
 RT: 7.69 min Scan# 2054
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC005

Tot Ion: 75 Resp: 6266
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.8 38.8

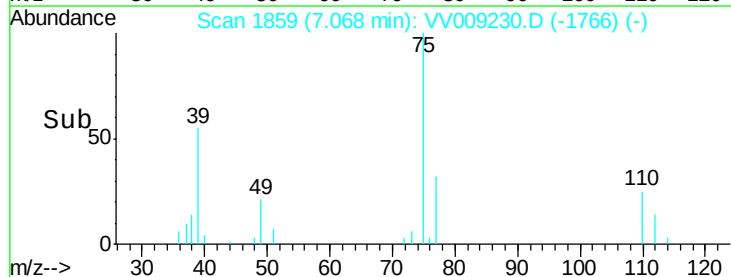
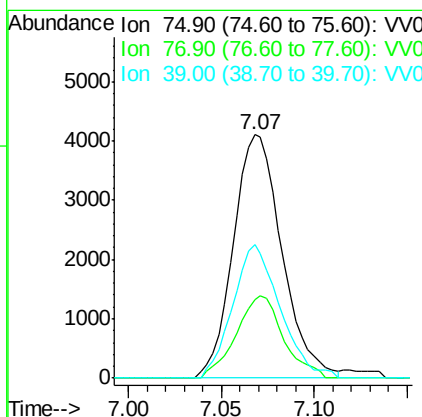
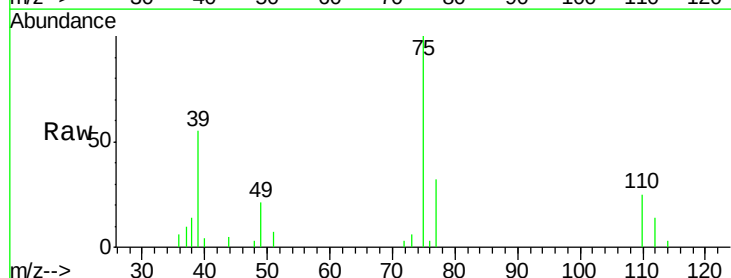
Manual Integrations
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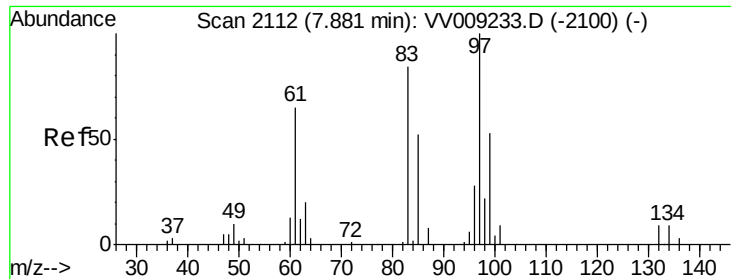
MMDadoda
 1/24/2019 11:43:36 AM



#54
 cis-1,3-Dichloropropene
 Concen: 4.262 ug/l
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Tgt Ion: 75 Resp: 7473
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.1 37.7
 39 54.7 38.8 58.2





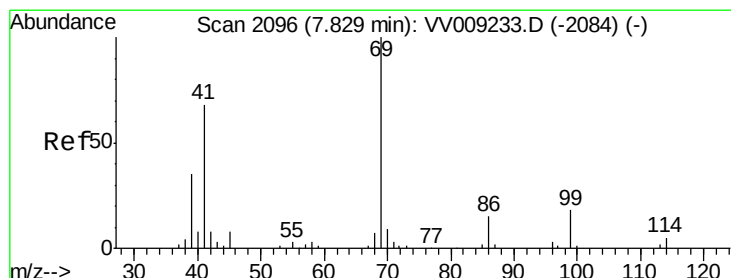
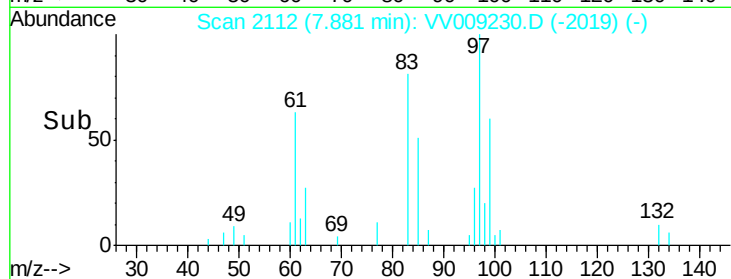
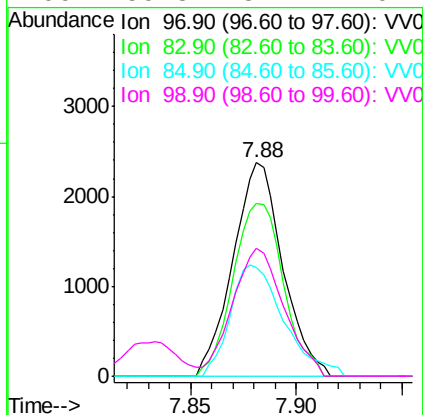
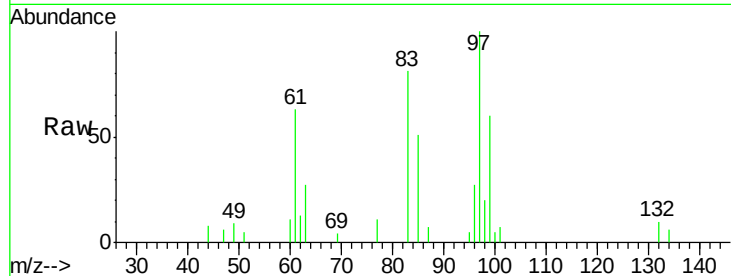
#55
1,1,2-Trichloroethane
Concen: 4.716 ug/l
RT: 7.88 min Scan# 2112
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion:	97	Resp:	3896
Ion	Ratio	Lower	Upper
97	100		
83	80.9	67.4	101.0
85	50.9	42.6	64.0
99	59.8	51.1	76.7

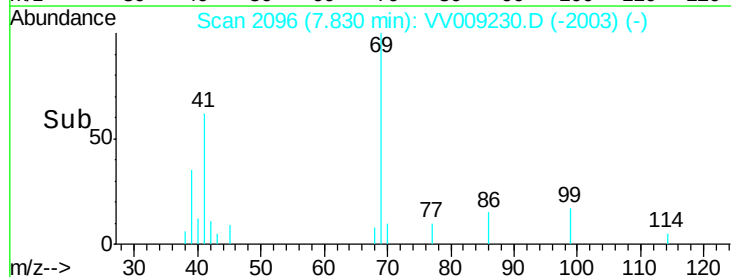
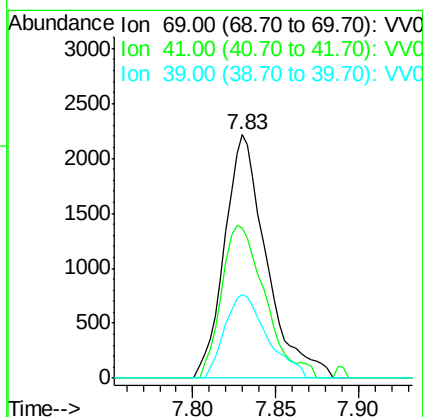
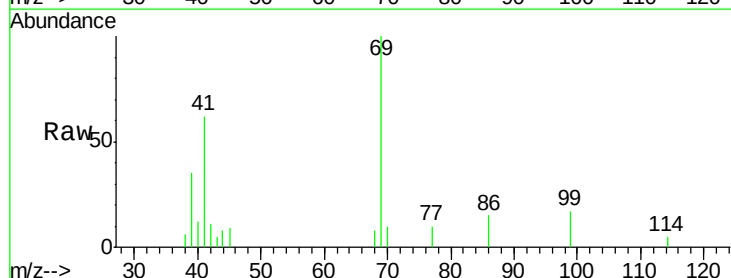
Manual Integrations
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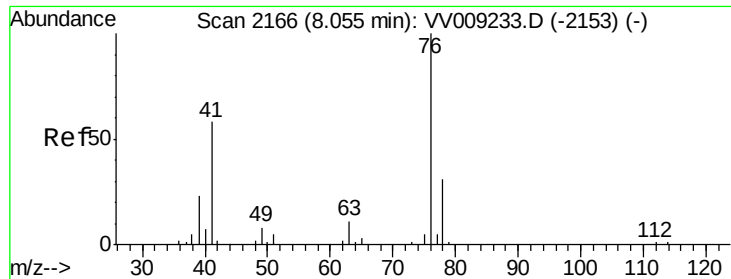
MMDadoda
1/24/2019 11:43:36 AM



#56
Ethyl methacrylate
Concen: 3.902 ug/l
RT: 7.83 min Scan# 2096
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion:	69	Resp:	3905
Ion	Ratio	Lower	Upper
69	100		
41	65.1	54.0	81.0
39	34.6	26.8	40.2





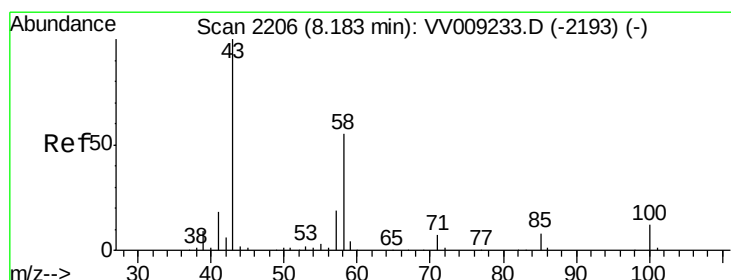
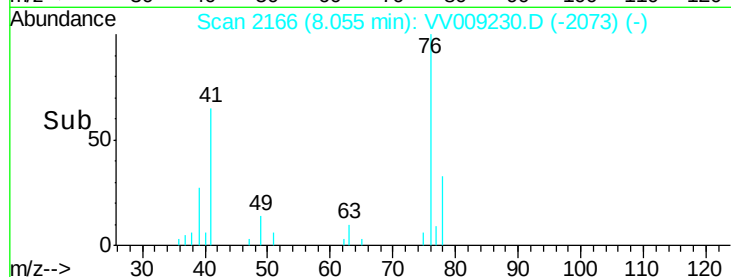
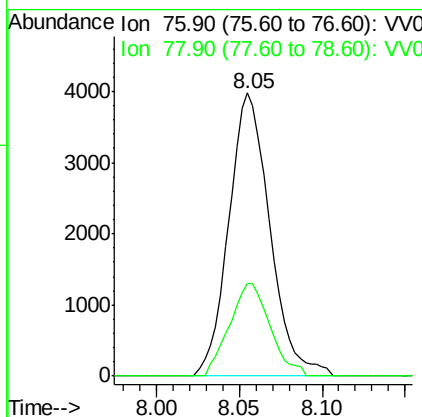
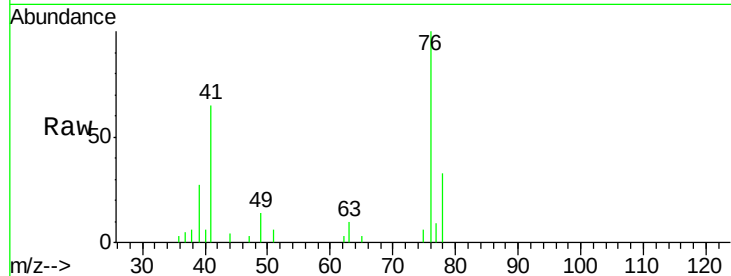
#57
 1,3-Dichloropropane
 Concen: 4.501 ug/l
 RT: 8.05 min Scan# 2166
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC005

Tot Ion: 76 Resp: 6855
 Ion Ratio Lower Upper
 76 100
 78 32.3 25.5 38.3

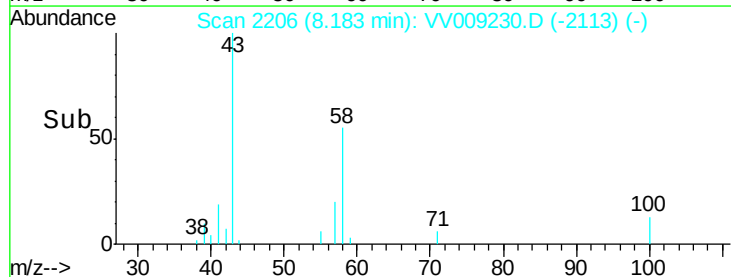
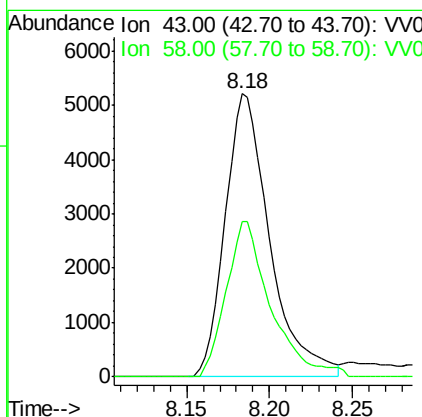
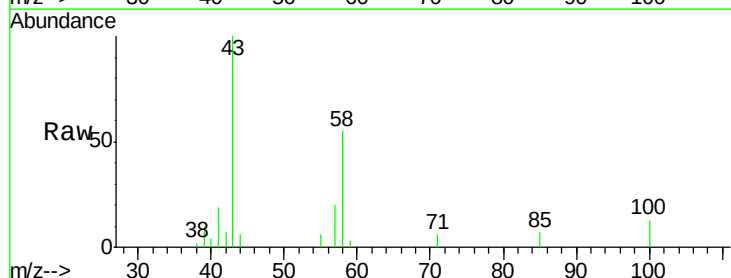
Manual Integrations
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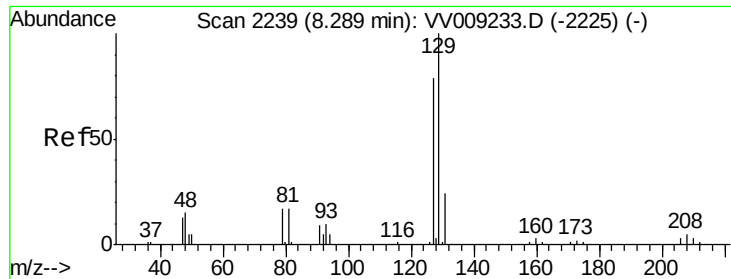
MMDadoda
 1/24/2019 11:43:36 AM



#59
 2-Hexanone
 Concen: 19.480 ug/l
 RT: 8.18 min Scan# 2206
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Tgt Ion: 43 Resp: 9746
 Ion Ratio Lower Upper
 43 100
 58 54.8 27.5 82.5





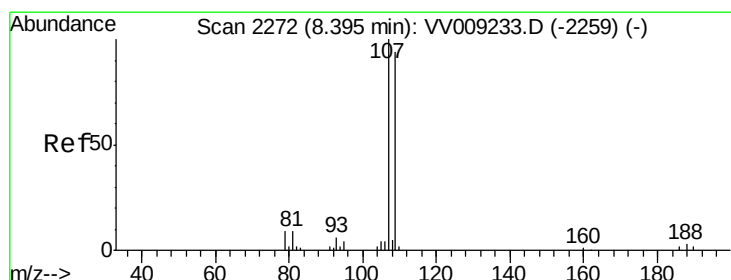
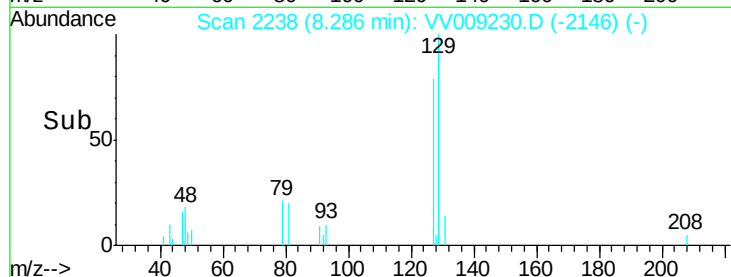
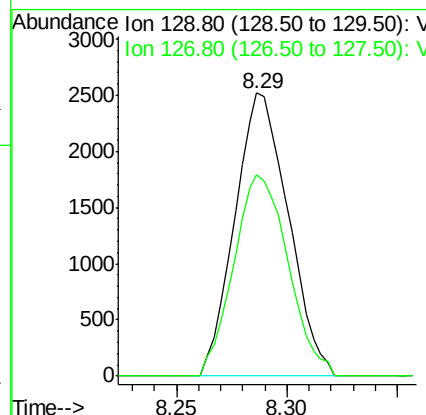
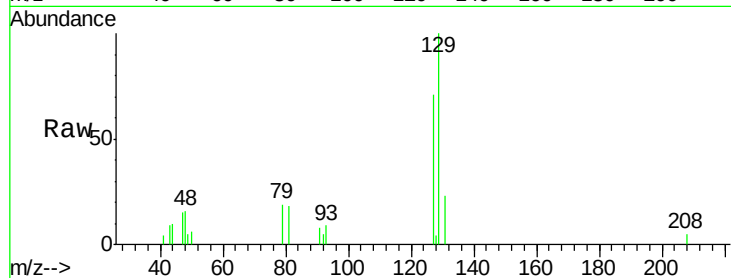
#60
 Dibromochloromethane
 Concen: 4.300 ug/l
 RT: 8.29 min Scan# 2238
 Delta R.T. -0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
129	100		
127	72.4	38.8	116.4

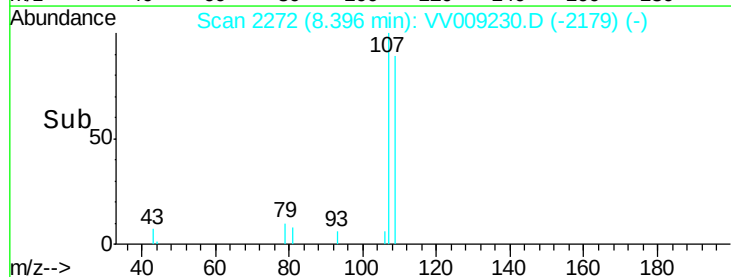
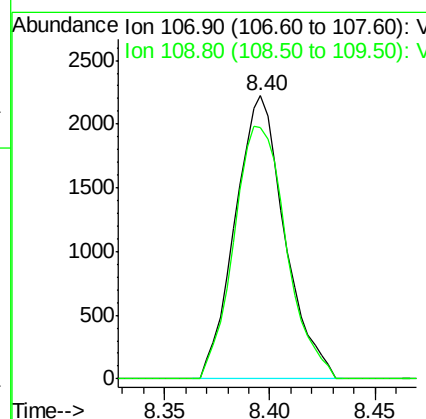
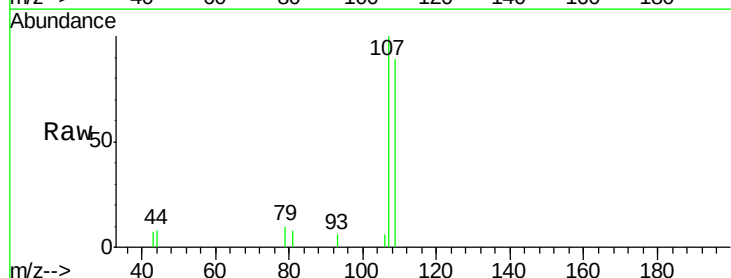
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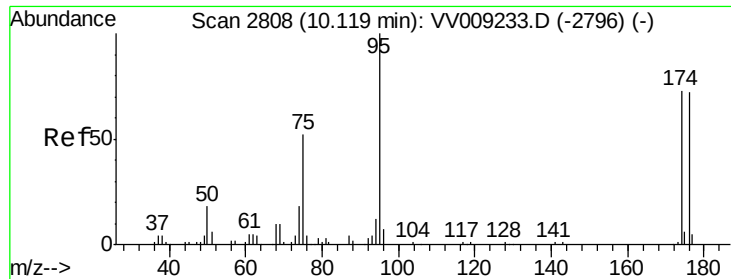
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#61
 1,2-Dibromoethane
 Concen: 4.436 ug/l
 RT: 8.40 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.5	76.2	114.2





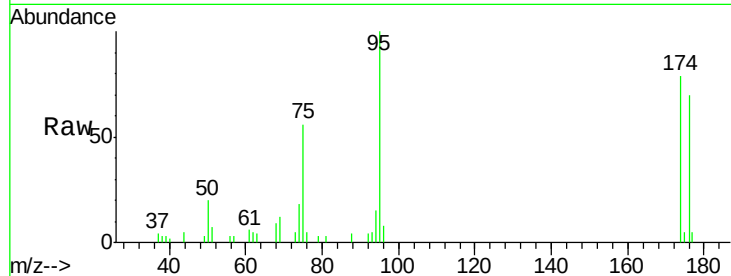
#62
4-Bromofluorobenzene
Concen: 4.761 ug/l
RT: 10.12 min Scan# 2808
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

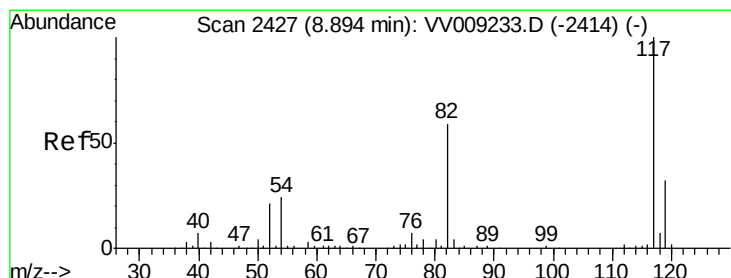
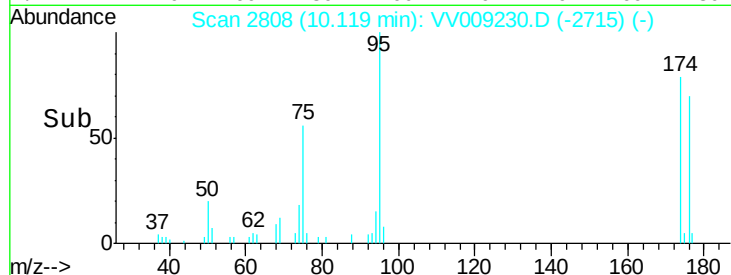
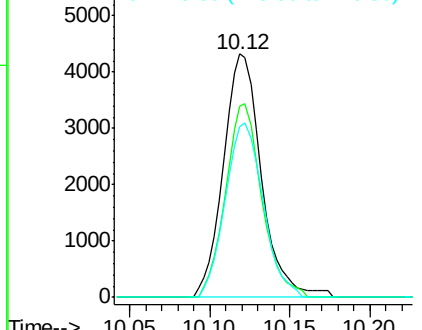
Tot Ion	Ratio	Resp	Lower	Upper
95	100	7005		
174	75.6		0.0	148.2
176	71.2		0.0	143.0

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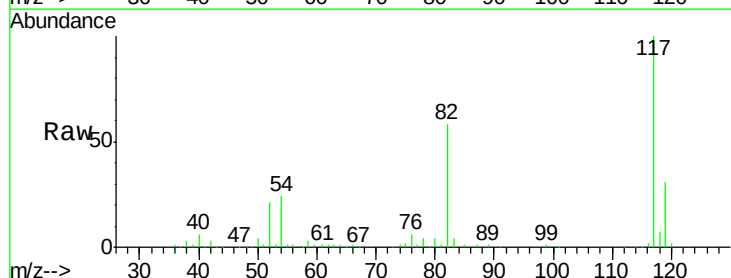


Abundance Ion 94.90 (94.60 to 95.60): VV009233.D (-2796) (-)
Ion 173.80 (173.50 to 174.50): VV009233.D (-2796) (-)
Ion 175.80 (175.50 to 176.50): VV009233.D (-2796) (-)

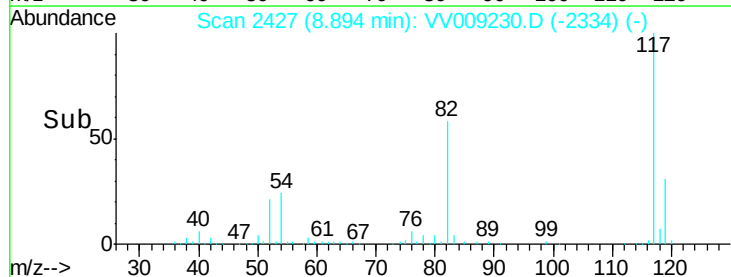
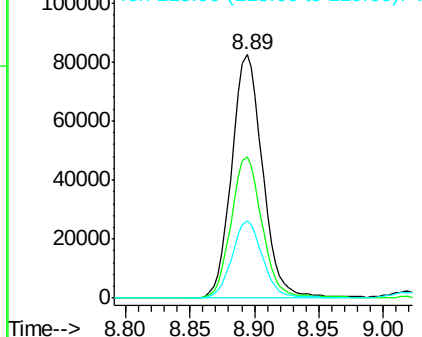


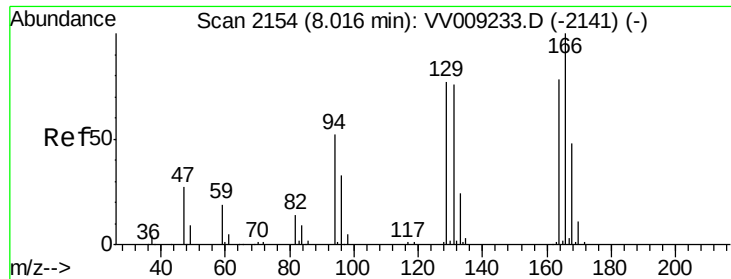
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.89 min Scan# 2427
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	137567		
82	57.9		47.0	70.6
119	31.5		25.4	38.2



Abundance Ion 116.90 (116.60 to 117.60): VV009233.D (-2414) (-)
Ion 82.00 (81.70 to 82.70): VV009233.D (-2414) (-)
Ion 118.90 (118.60 to 119.60): VV009233.D (-2414) (-)





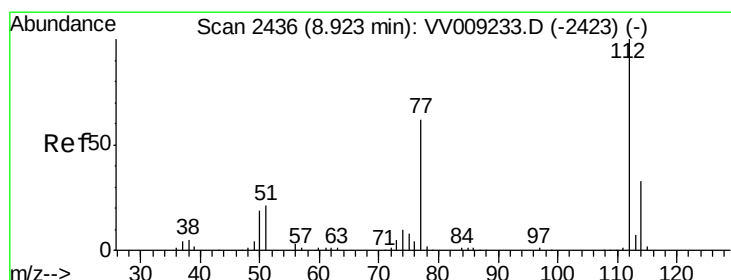
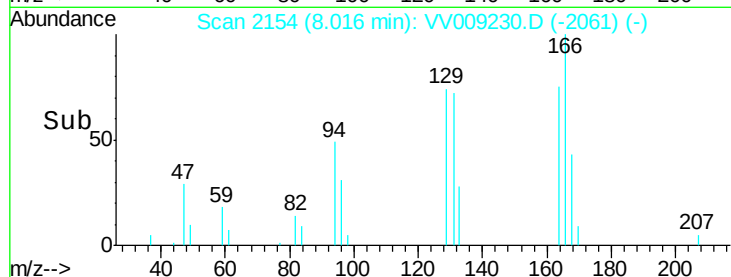
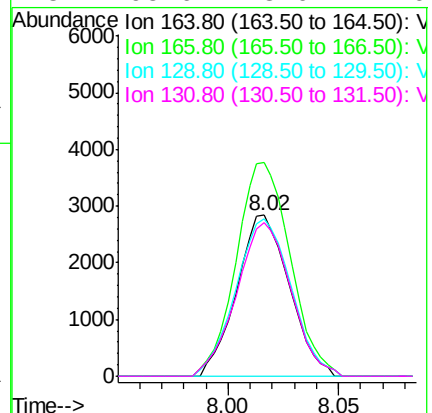
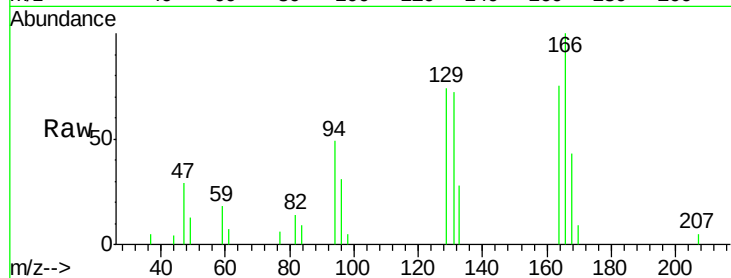
#64
Tetrachloroethene
 Concen: 5.000 ug/l
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC005

Tot Ion:	164	Resp:	4682
Ion	Ratio	Lower	Upper
164	100		
166	132.9	102.1	153.1
129	98.0	78.1	117.1
131	95.6	78.0	117.0

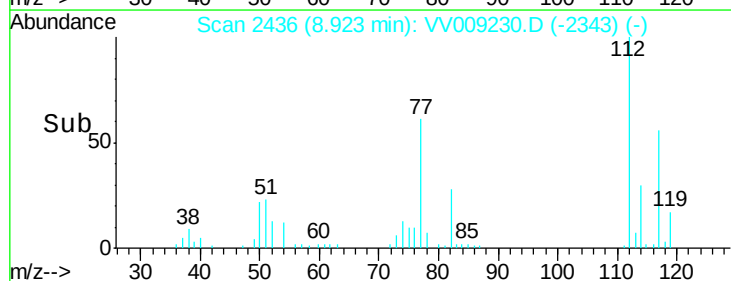
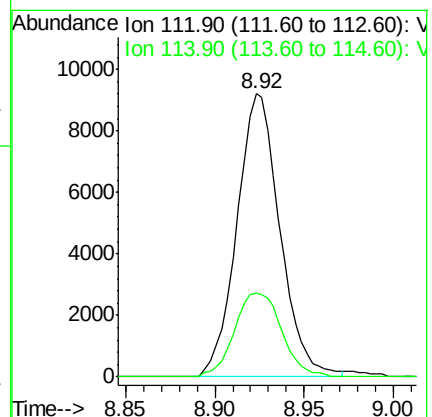
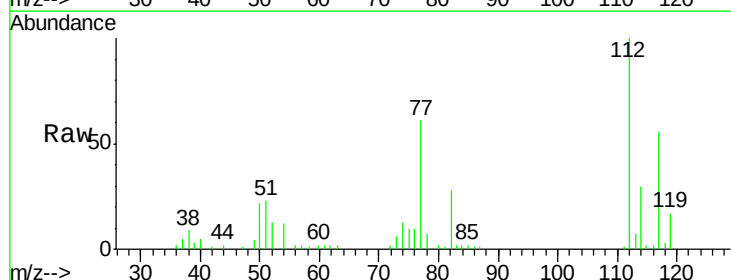
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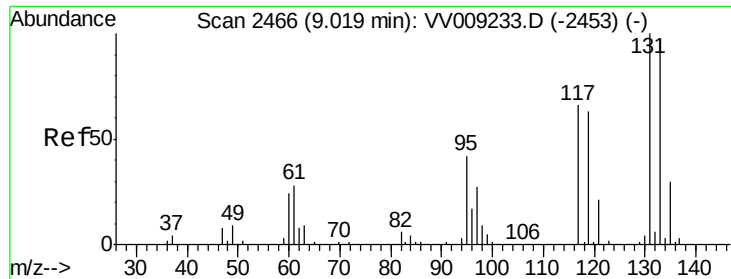
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#65
Chlorobenzene
 Concen: 4.938 ug/l
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Tgt Ion:	112	Resp:	15514
Ion	Ratio	Lower	Upper
112	100		
114	29.8	26.0	39.0





#66

1,1,1,2-Tetrachloroethane

Concen: 4.808 ug/l

RT: 9.02 min Scan# 2465

Delta R.T. -0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

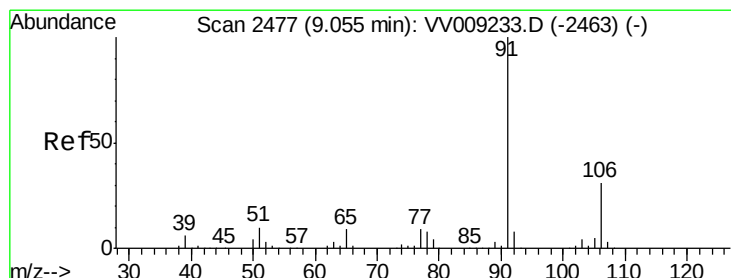
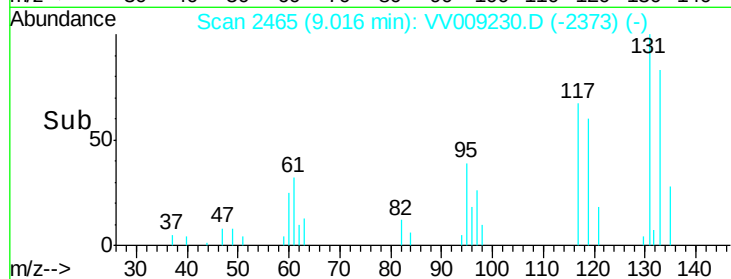
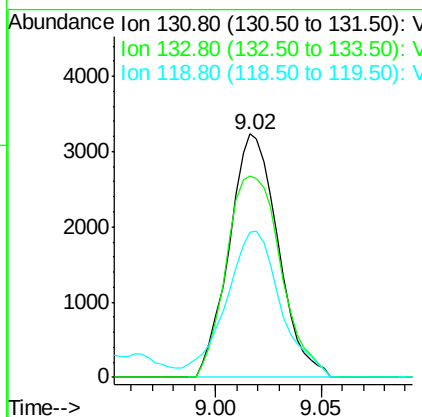
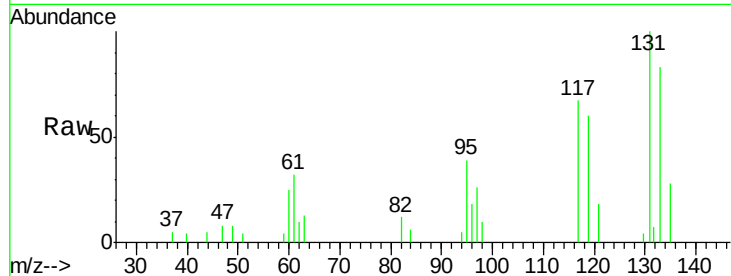
ClientSampleId :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
131	100		
133	92.5	48.3	144.9
119	67.7	31.2	93.6

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#67

Ethyl Benzene

Concen: 4.798 ug/l

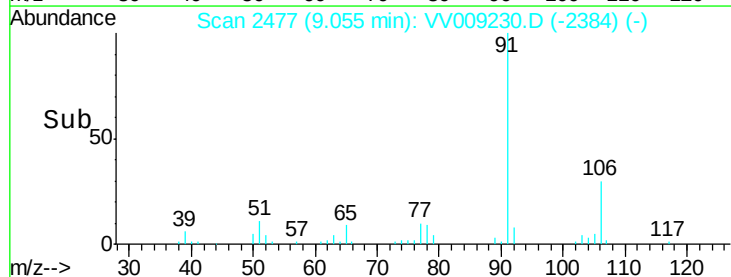
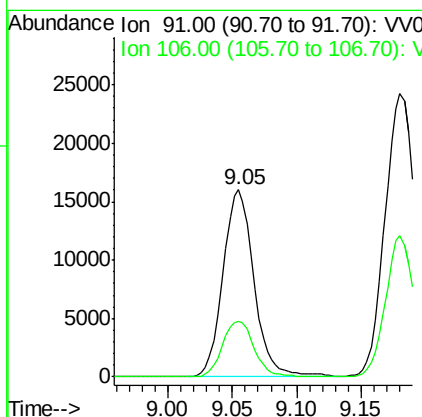
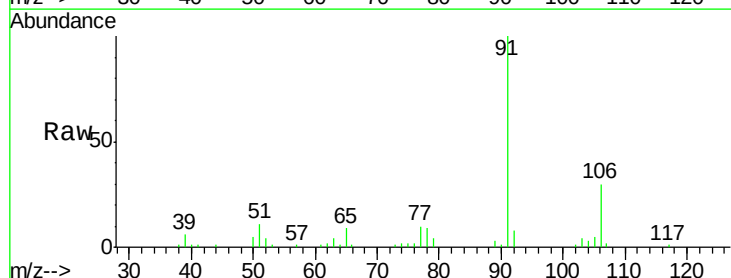
RT: 9.05 min Scan# 2477

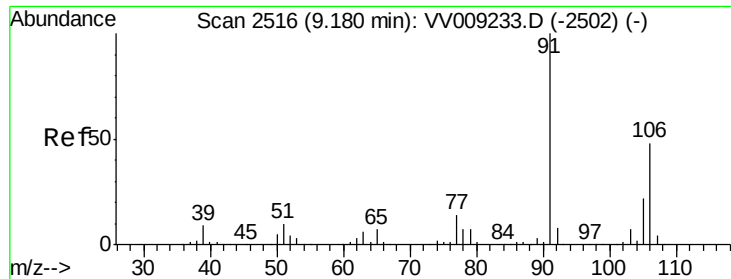
Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.6	37.0





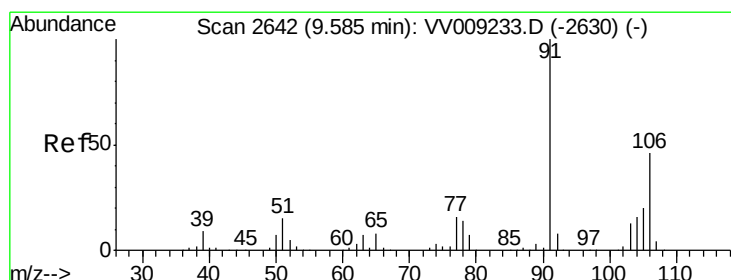
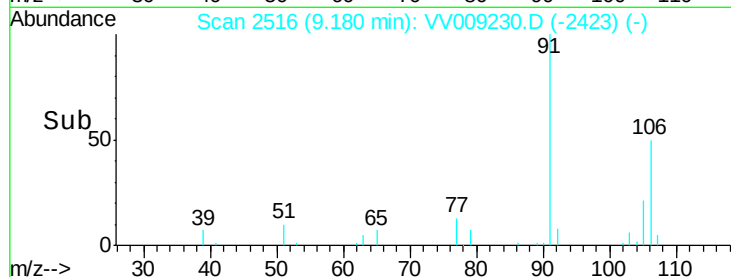
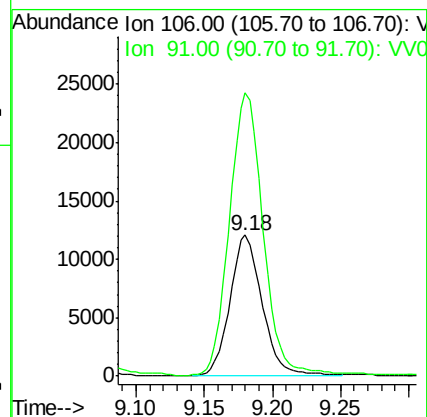
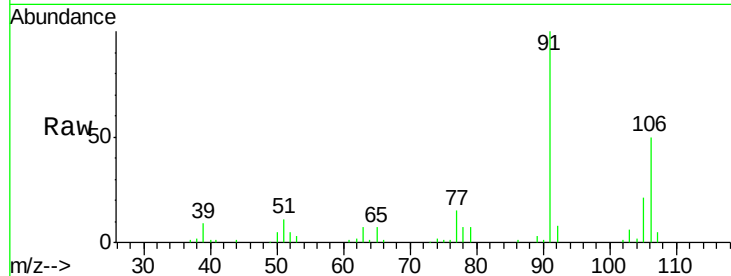
#68
m/p-Xylenes
Concen: 9.551 ug/l
RT: 9.18 min Scan# 2516
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 20000
Ion Ratio Lower Upper
106 100
91 209.5 167.1 250.7

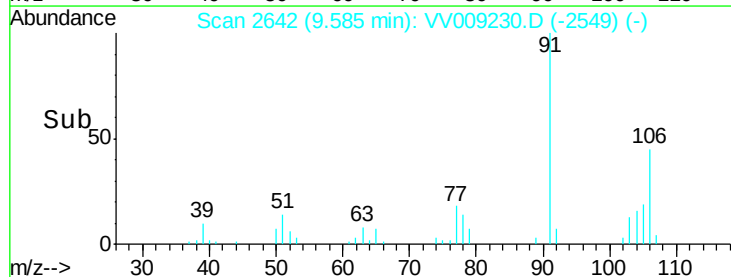
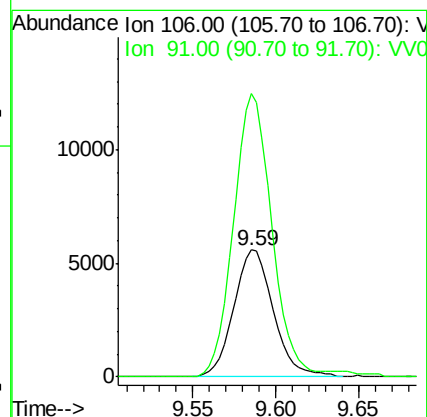
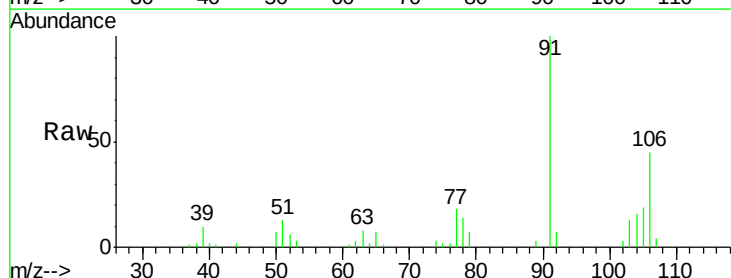
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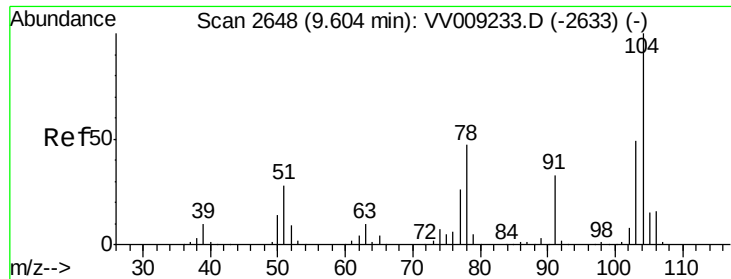
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#69
o-Xylene
Concen: 4.748 ug/l
RT: 9.59 min Scan# 2642
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion:106 Resp: 9262
Ion Ratio Lower Upper
106 100
91 215.1 109.3 327.8





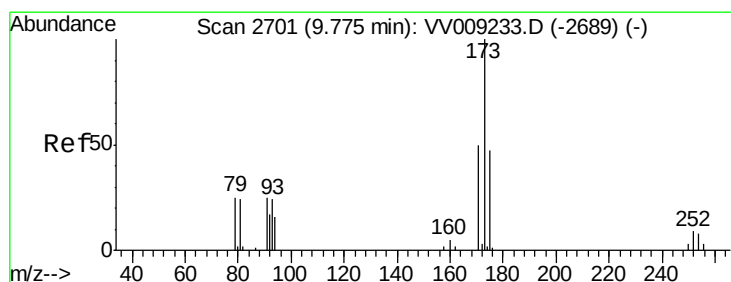
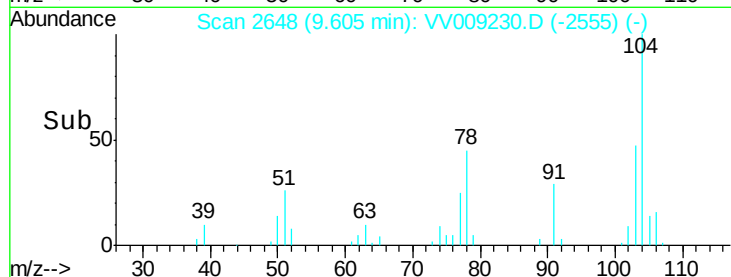
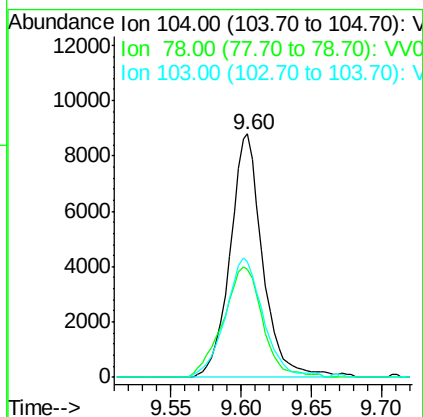
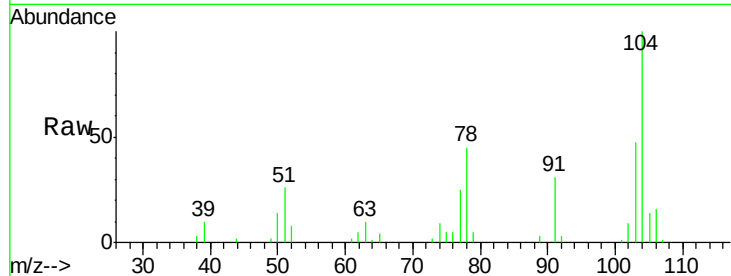
#70
Stvrene
Concen: 4.464 ug/l
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.9	43.1	64.7
103	56.6	43.8	65.8

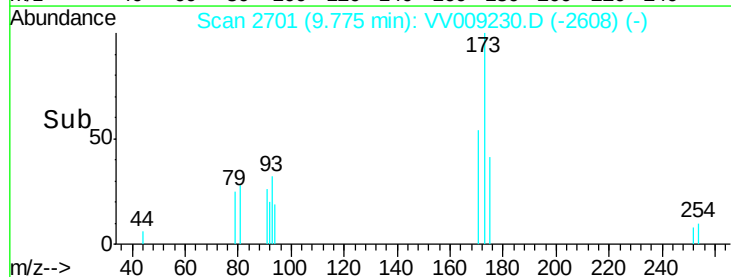
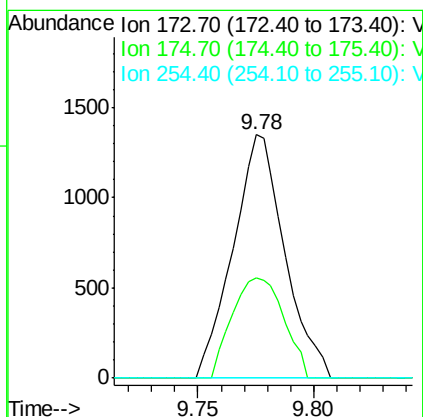
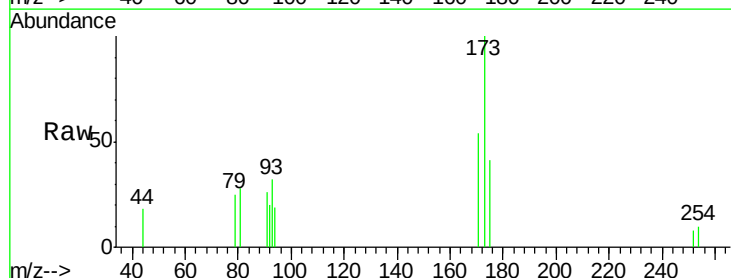
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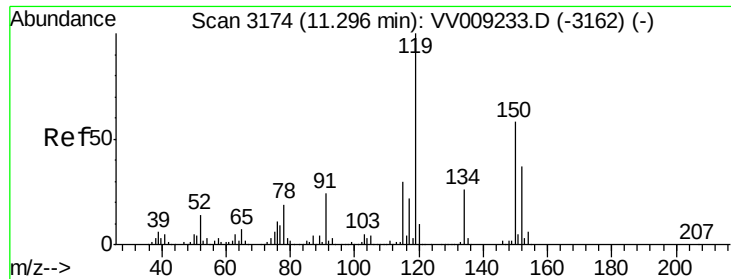
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#71
Bromoform
Concen: 3.957 ug/l
RT: 9.78 min Scan# 2701
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
173	100		
175	41.3	23.4	70.0
254	0.0	0.0	0.0





#72

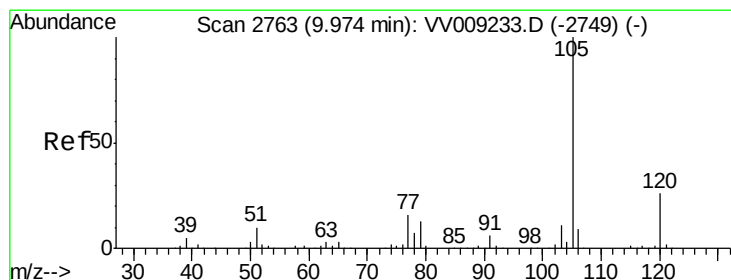
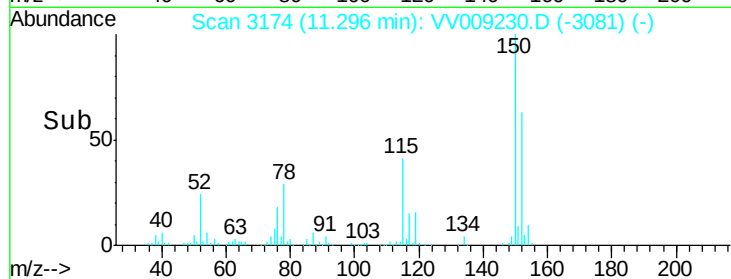
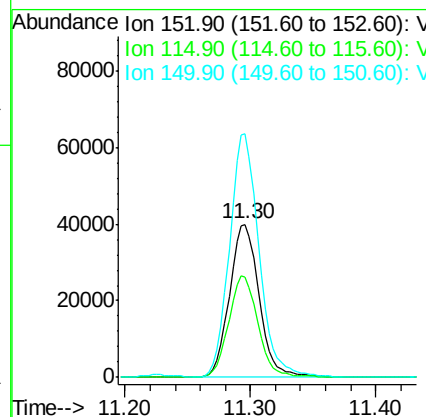
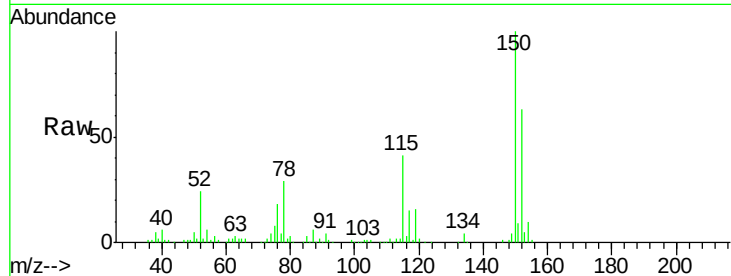
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.30 min Scan# 3174
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
152	100		
115	65.3	45.0	134.8
150	158.3	0.0	346.4

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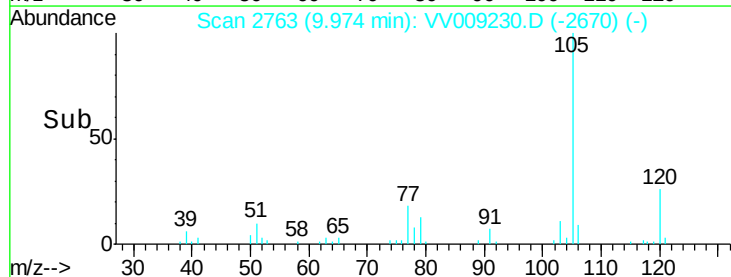
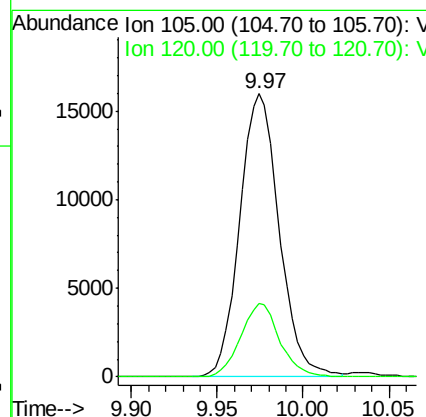
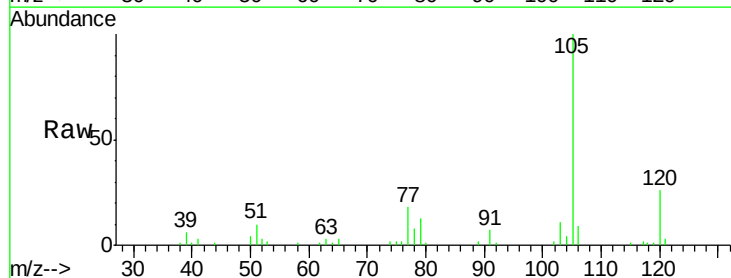
MMDadoda
1/24/2019 11:43:36 AM

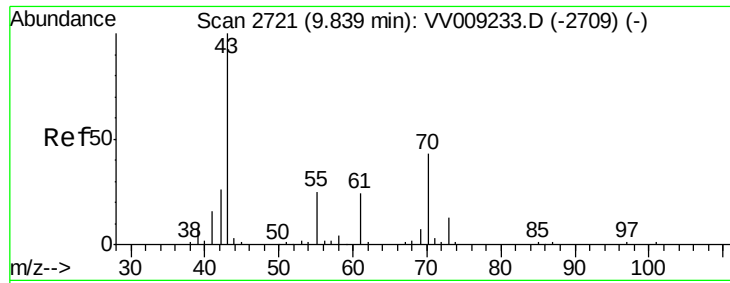


#73

Isopropylbenzene
Concen: 4.916 ug/l
RT: 9.97 min Scan# 2763
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.4	12.9	38.7





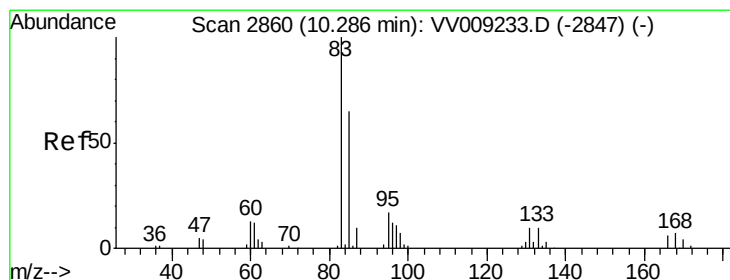
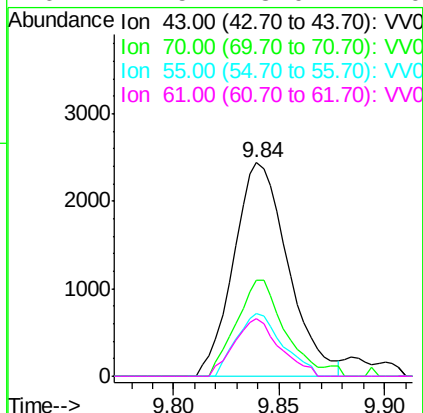
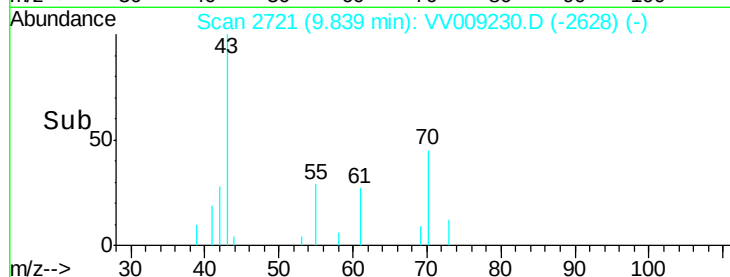
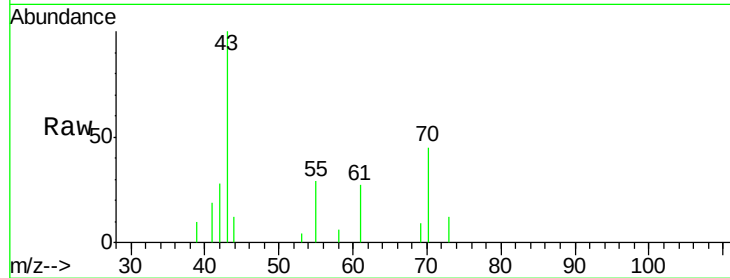
#74
N-amyl acetate
Concen: 3.970 ug/l
RT: 9.84 min Scan# 2721
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion:	43	Resp:	4365
Ion	Ratio	Lower	Upper
43	100		
70	40.7	33.0	49.6
55	25.1	18.7	28.1
61	22.5	18.0	27.0

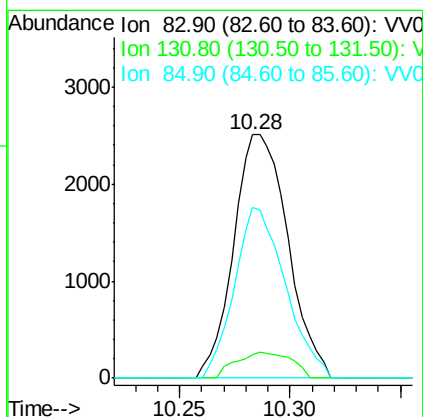
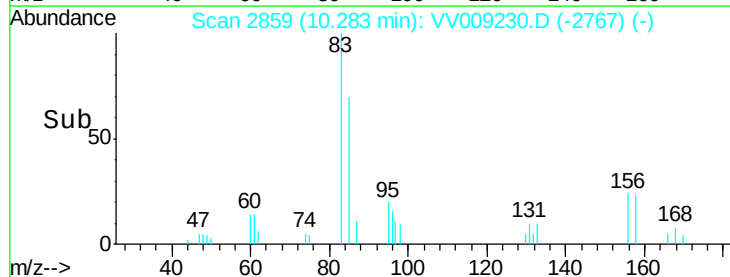
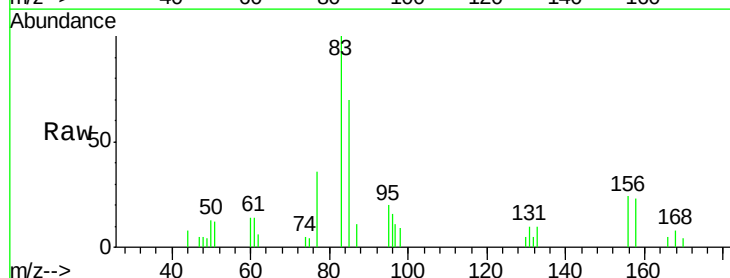
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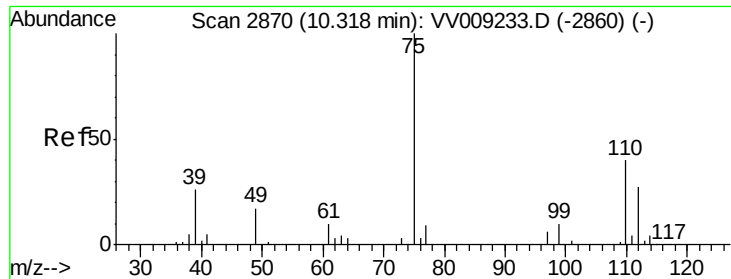
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#75
1,1,2,2-Tetrachloroethane
Concen: 4.601 ug/l
RT: 10.28 min Scan# 2859
Delta R.T. -0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion:	83	Resp:	4288
Ion	Ratio	Lower	Upper
83	100		
131	10.8	5.1	15.3
85	65.9	32.6	98.0





#76

1,2,3-Trichloropropane

Concen: 5.211 ug/l m

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 3779

Ion Ratio Lower Upper

75 100

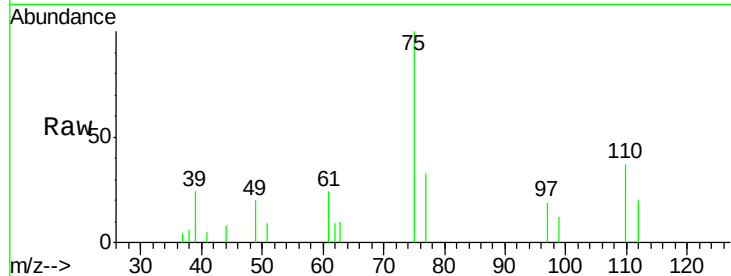
77 43.4 24.6 73.8

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Abundance Ion 74.90 (74.60 to 75.60): VV009233.D (-2860) (-)

Ion 77.00 (76.70 to 77.70): VV009233.D (-2860) (-)

6000

5000

4000

3000

2000

1000

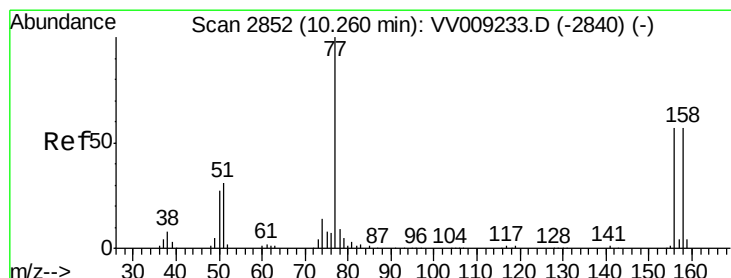
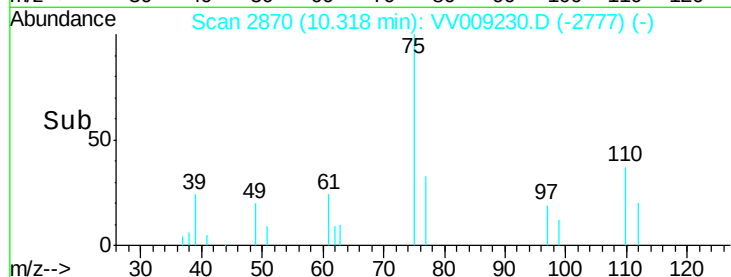
0

10.30

10.32

10.35

Time-->



#77

Bromobenzene

Concen: 4.946 ug/l

RT: 10.26 min Scan# 2853

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

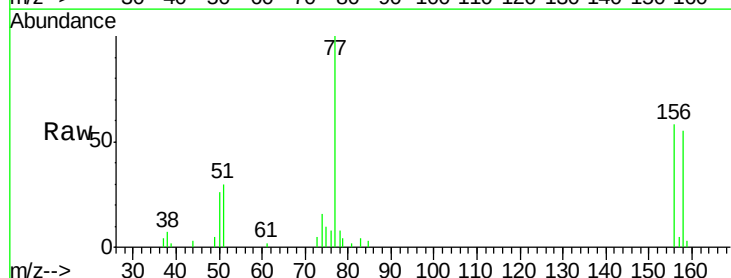
Tgt Ion: 156 Resp: 5715

Ion Ratio Lower Upper

156 100

77 172.9 86.0 258.0

158 96.3 49.8 149.3



Abundance Ion 155.80 (155.50 to 156.50): VV009233.D (-2840) (-)

Ion 77.00 (76.70 to 77.70): VV009233.D (-2840) (-)

Ion 157.80 (157.50 to 158.50): VV009233.D (-2840) (-)

8000

6000

4000

2000

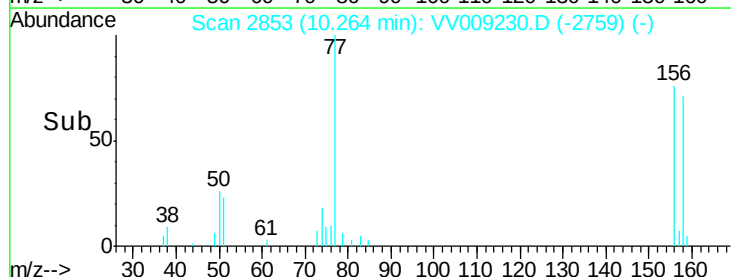
0

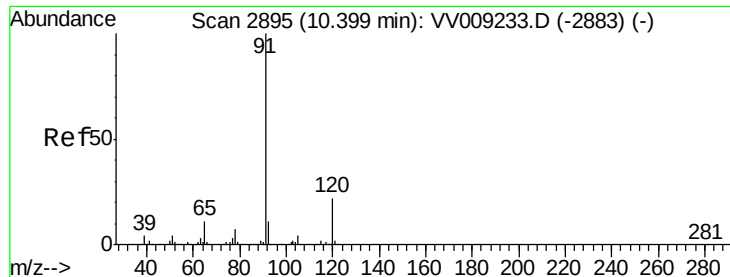
10.20

10.25

10.30

Time-->





#78

n-propylbenzene

Concen: 5.029 ug/l

RT: 10.40 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 31010

Ion Ratio Lower Upper

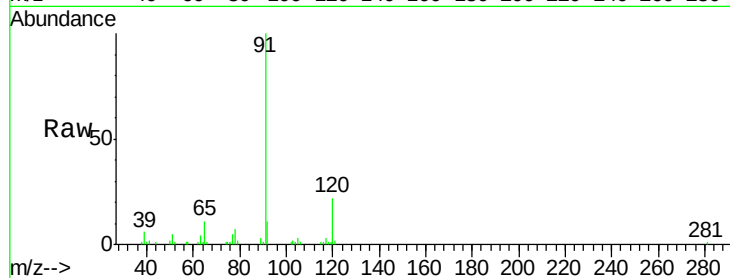
91 100

120 21.8 11.5 34.4

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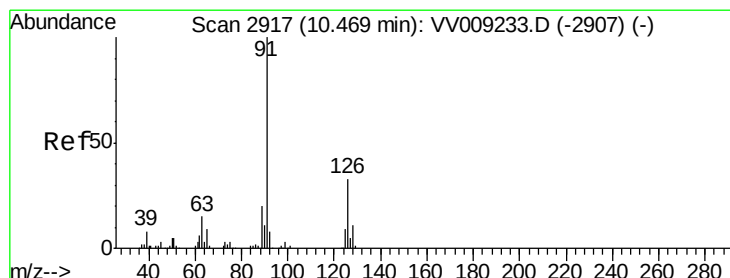
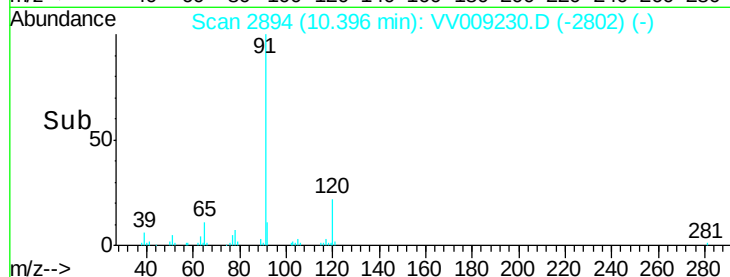
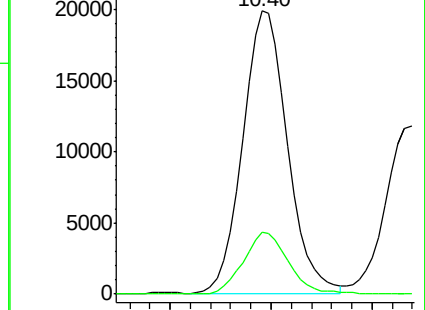
MMDadoda

1/24/2019 11:43:36 AM



Abundance Ion 91.00 (90.70 to 91.70): VV009233.D (-2883) (-)

Ion 120.00 (119.70 to 120.70): VV009233.D (-2883) (-)



#79

2-Chlorotoluene

Concen: 5.048 ug/l

RT: 10.47 min Scan# 2917

Delta R.T. 0.00 min

Lab File: VV009230.D

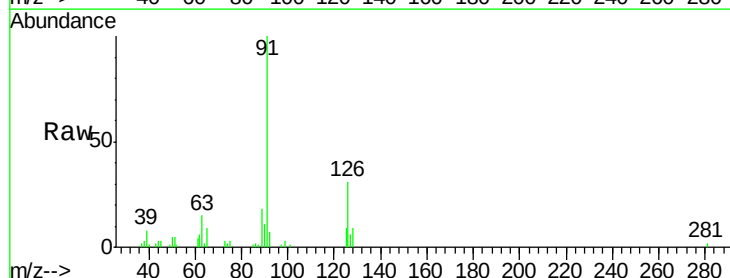
Acq: 22 Jan 2019 11:58

Tgt Ion: 91 Resp: 19206

Ion Ratio Lower Upper

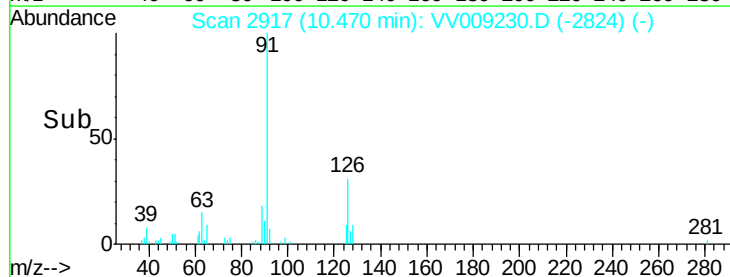
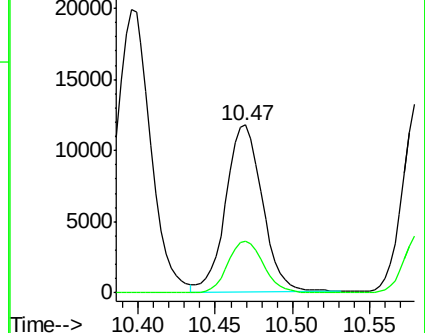
91 100

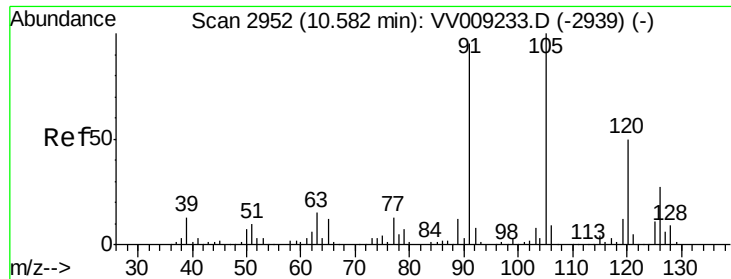
126 30.0 16.2 48.6



Abundance Ion 91.00 (90.70 to 91.70): VV009233.D (-2907) (-)

Ion 125.90 (125.60 to 126.60): VV009233.D (-2907) (-)





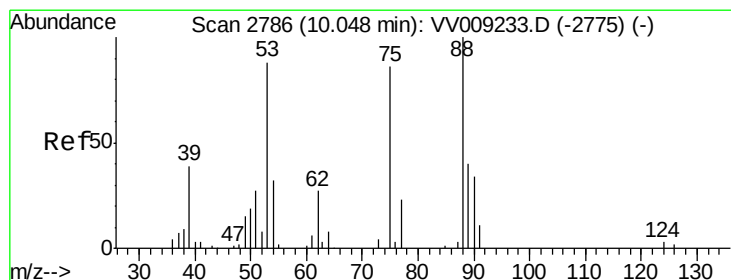
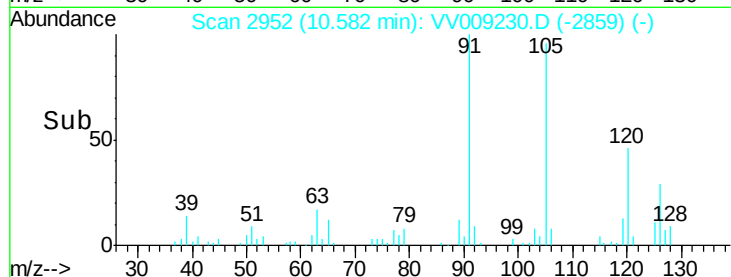
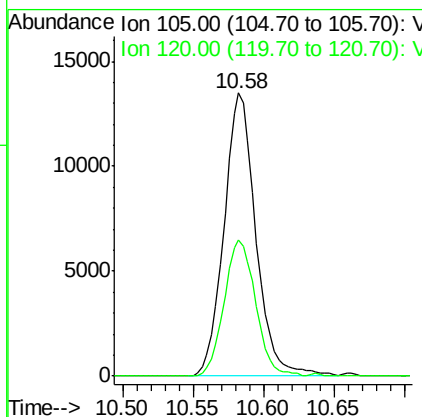
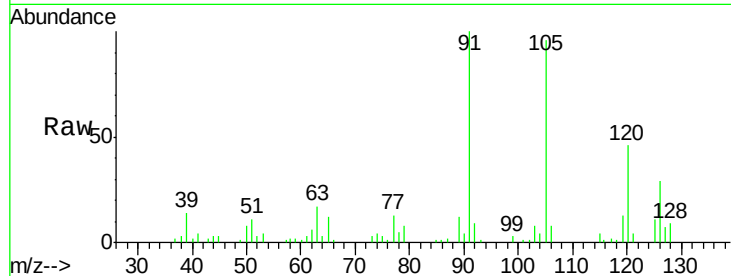
#80
 1,3,5-Trimethylbenzene
 Concen: 4.828 ug/l
 RT: 10.58 min Scan# 2952
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC005

Tot Ion:105 Resp: 21291
 Ion Ratio Lower Upper
 105 100
 120 47.4 24.3 73.0

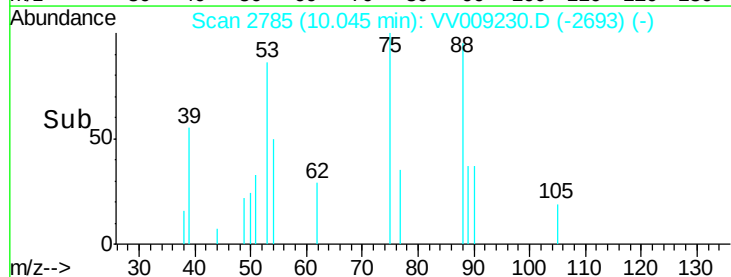
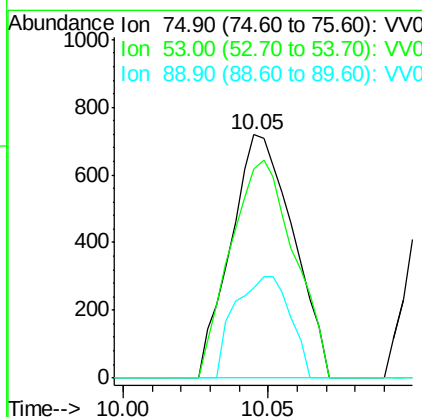
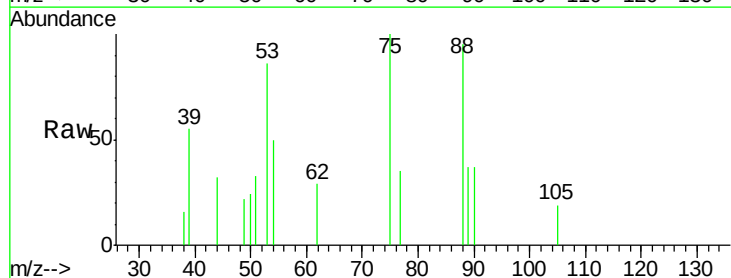
Manual Integrations
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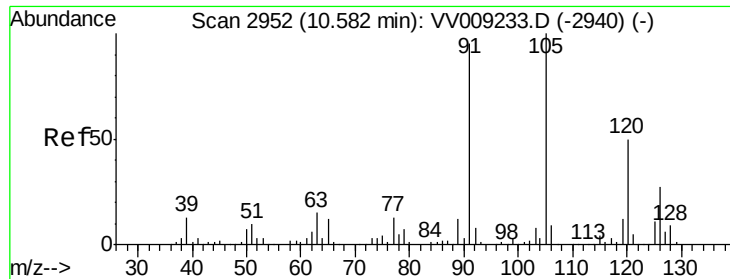
MMDadoda
 1/24/2019 11:43:36 AM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 4.099 ug/l
 RT: 10.05 min Scan# 2785
 Delta R.T. -0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Tgt Ion: 75 Resp: 1072
 Ion Ratio Lower Upper
 75 100
 53 91.5 82.1 123.1
 89 36.8 36.2 54.4





#82

4-Chlorotoluene

Concen: 5.179 ug/l

RT: 10.58 min Scan# 2952

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 23469

Ion Ratio Lower Upper

91 100

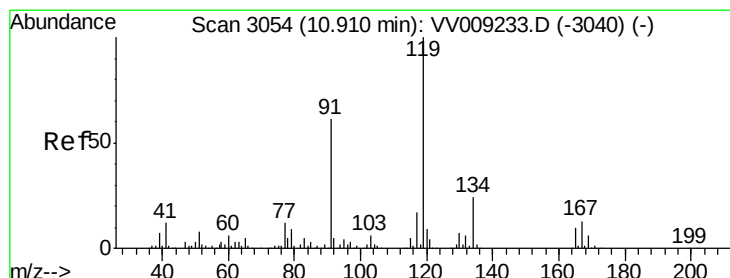
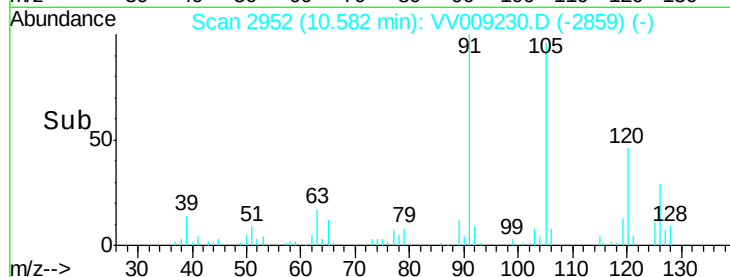
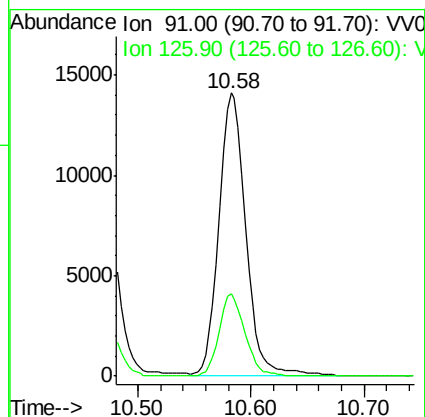
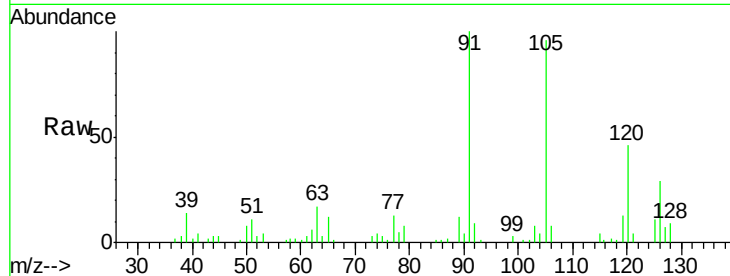
126 27.5 14.3 42.9

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#83

tert-Butylbenzene

Concen: 4.794 ug/l

RT: 10.91 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

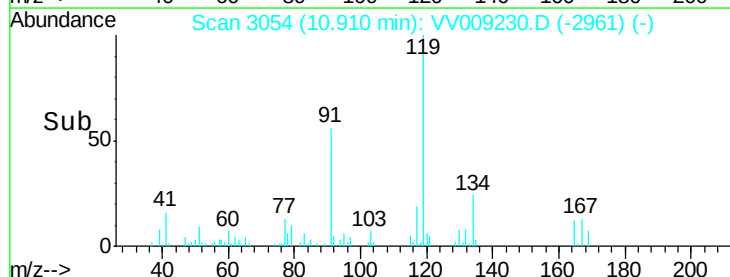
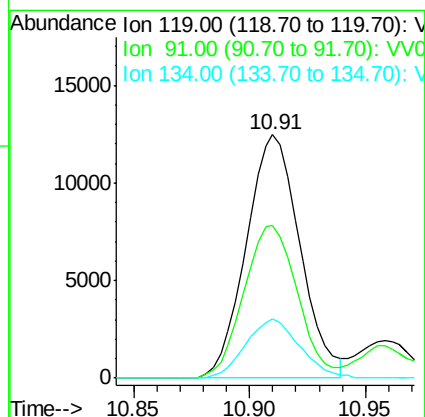
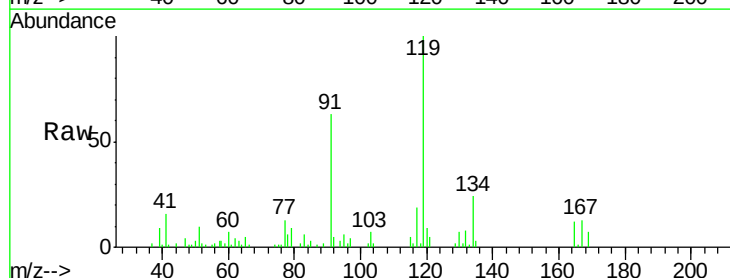
Tgt Ion: 119 Resp: 20105

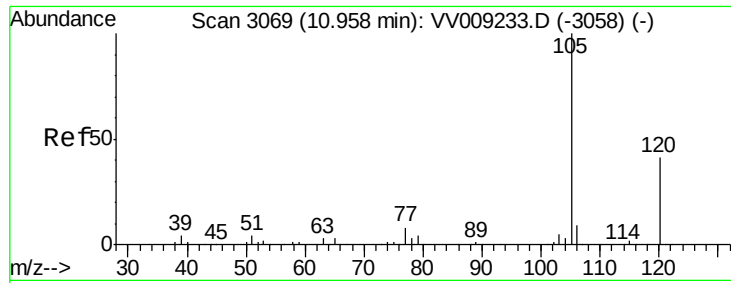
Ion Ratio Lower Upper

119 100

91 62.2 30.0 90.1

134 24.4 11.9 35.7





#84

1,2,4-Trimethylbenzene

Concen: 4.708 ug/l

RT: 10.96 min Scan# 3069

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 21400

Ion Ratio Lower Upper

105 100

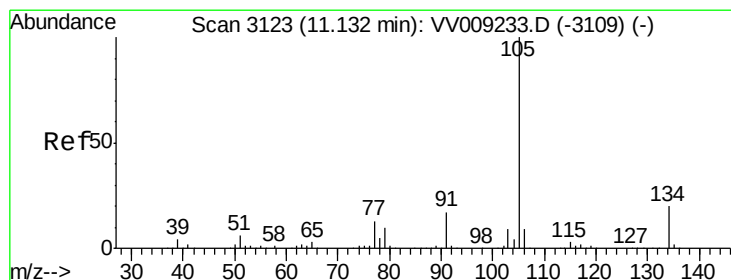
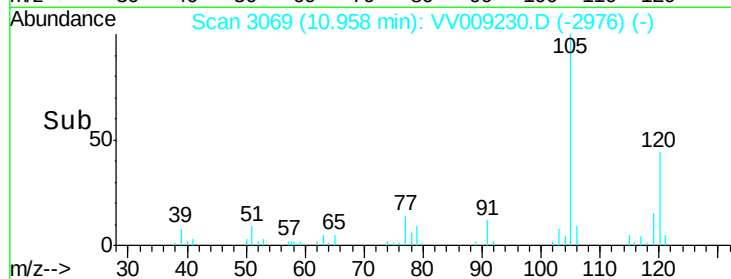
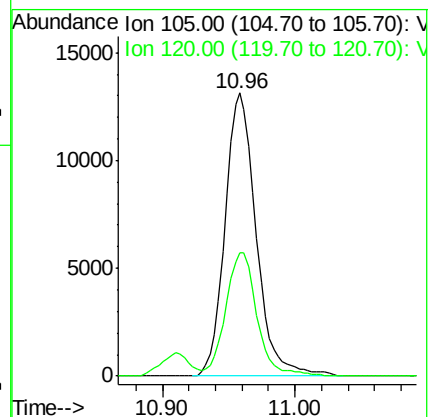
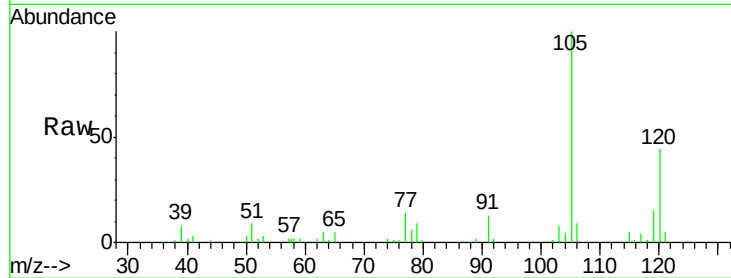
120 44.1 22.6 67.7

Manual Integrations

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#85

sec-Butylbenzene

Concen: 5.006 ug/l

RT: 11.13 min Scan# 3123

Delta R.T. 0.00 min

Lab File: VV009230.D

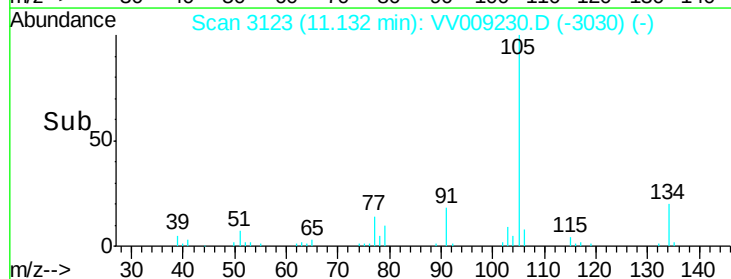
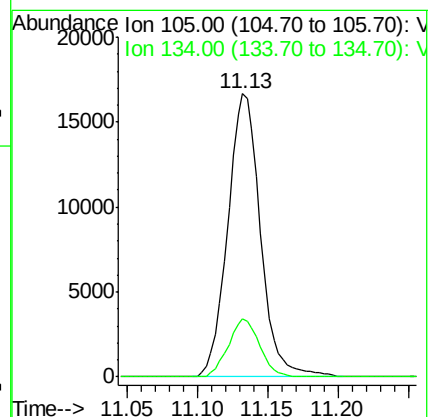
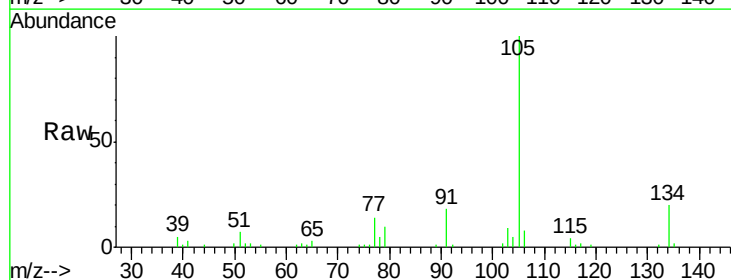
Acq: 22 Jan 2019 11:58

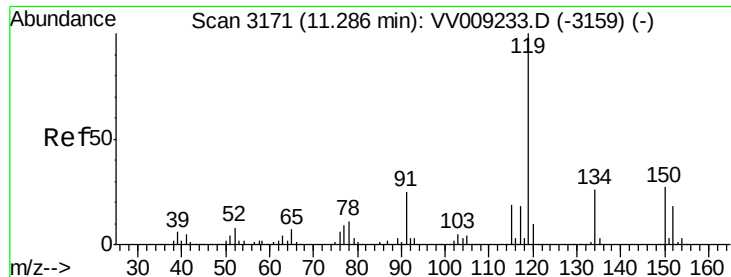
Tgt Ion:105 Resp: 26981

Ion Ratio Lower Upper

105 100

134 19.5 10.1 30.3





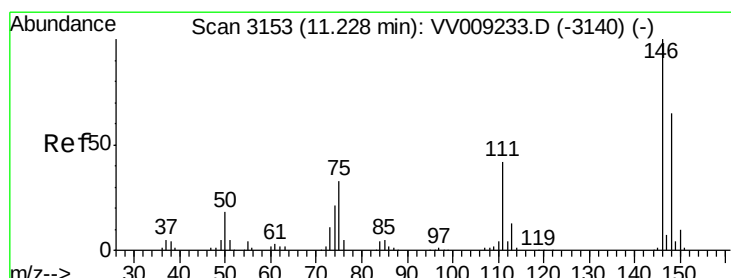
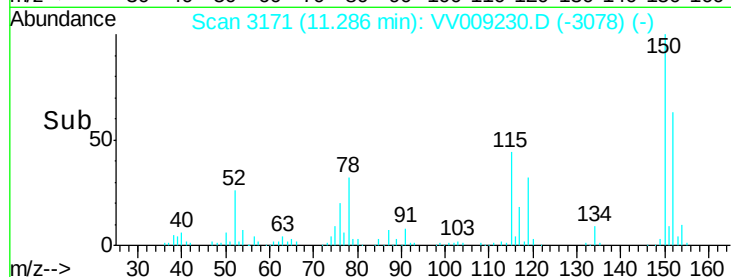
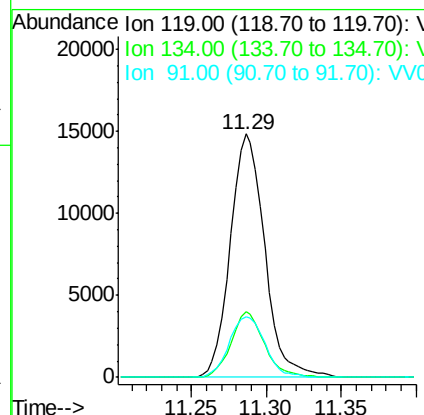
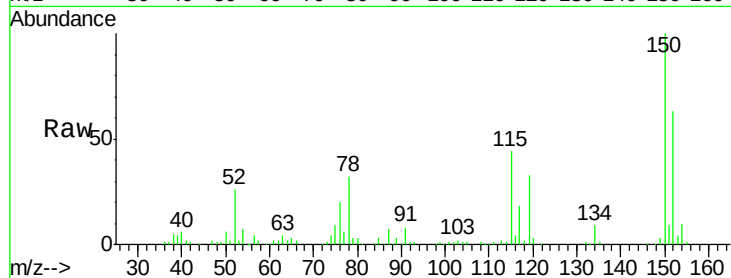
#86
 p-Isopropyltoluene
 Concen: 4.966 ug/l
 RT: 11.29 min Scan# 3171
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.0	38.9
91	26.0	12.4	37.2

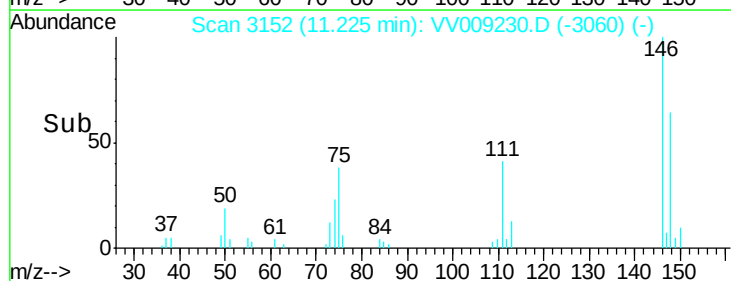
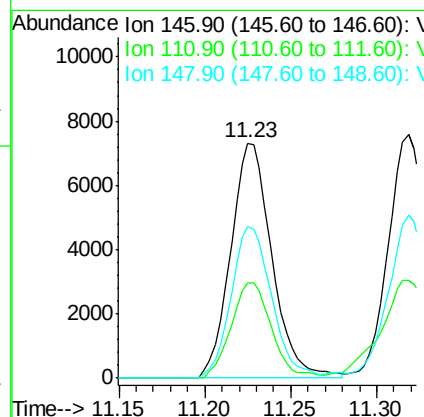
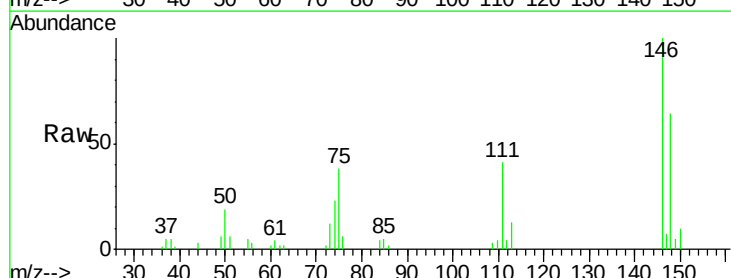
Manual Integrations
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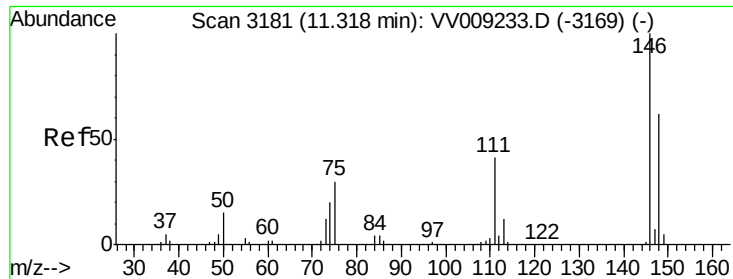
MMDadoda
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#87
 1,3-Dichlorobenzene
 Concen: 5.180 ug/l
 RT: 11.23 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.6	21.1	63.4
148	63.2	32.1	96.3





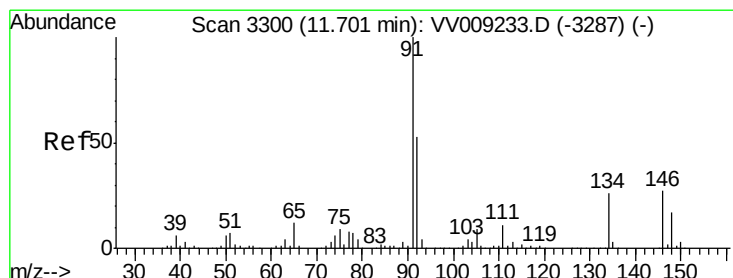
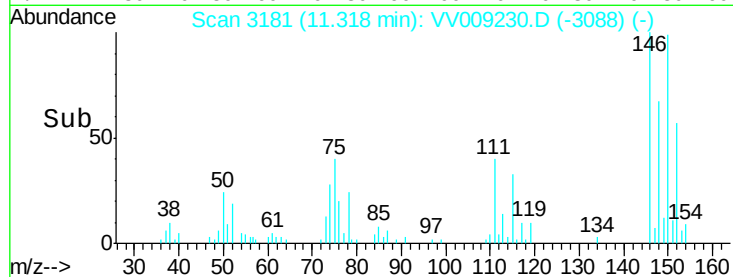
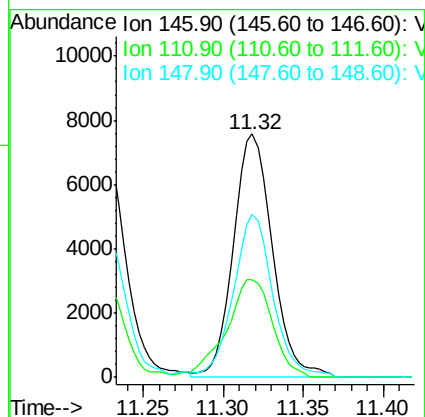
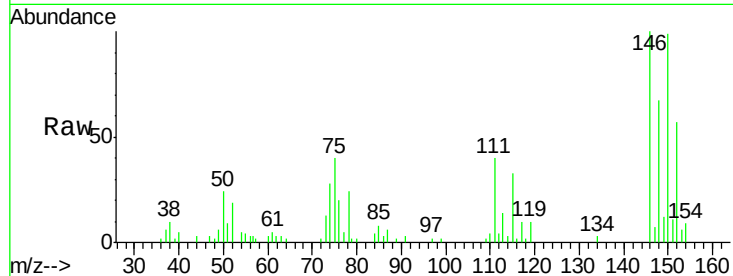
#88
 1,4-Dichlorobenzene
 Concen: 5.259 ug/l
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.8	20.5	61.5
148	67.5	31.4	94.3

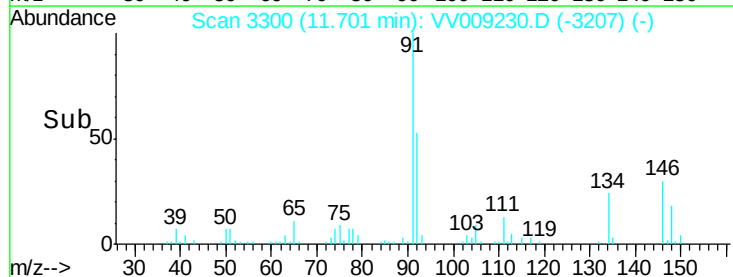
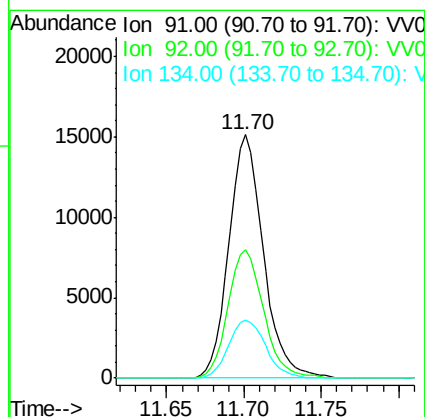
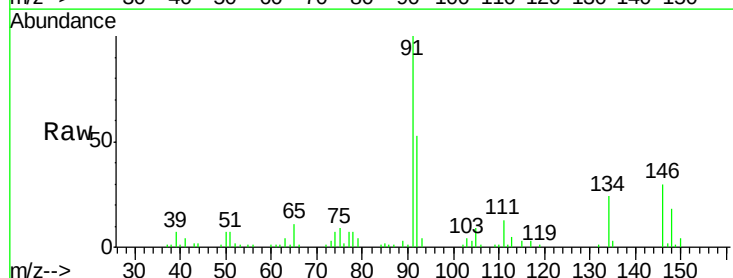
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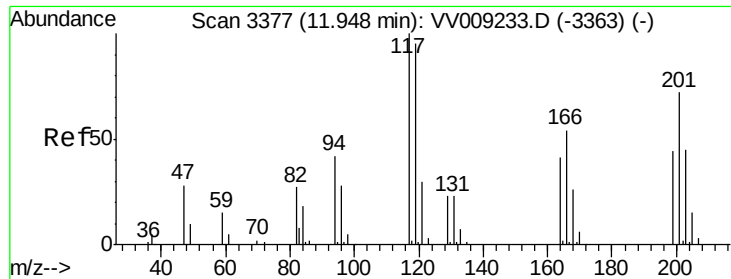
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#89
 n-Butylbenzene
 Concen: 4.974 ug/l
 RT: 11.70 min Scan# 3300
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.2	81.5
134	25.3	12.6	37.8





#90

Hexachloroethane

Concen: 4.743 ug/l

RT: 11.95 min Scan# 3377

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

Instrument :

MSVOA_V

ClientSampleId :

VSTDIC005

Tot Ion:117 Resp: 4088

Ion Ratio Lower Upper

117 100

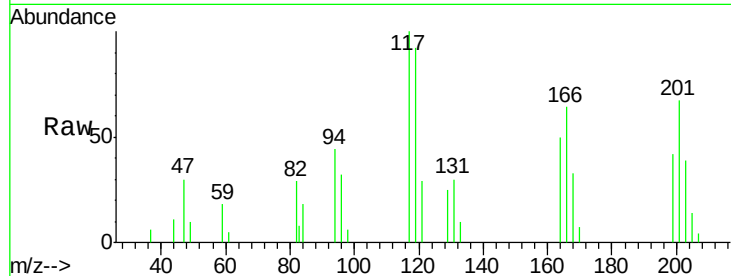
201 71.9 35.2 105.6

Manual Integrations

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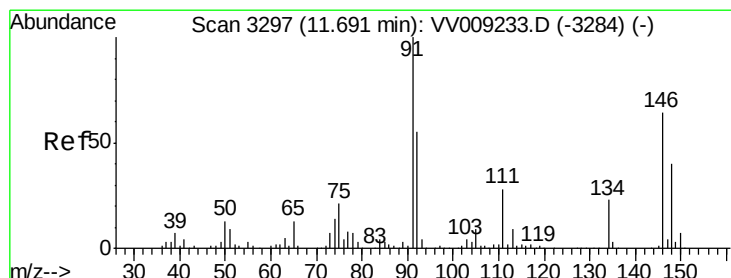
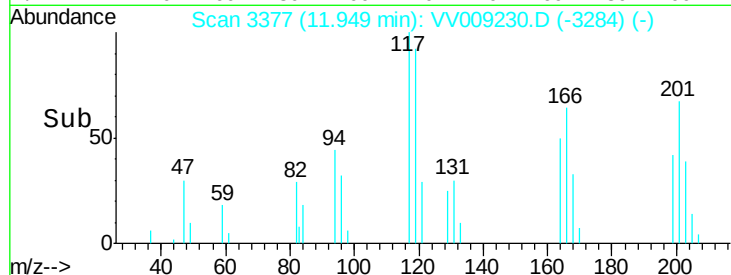
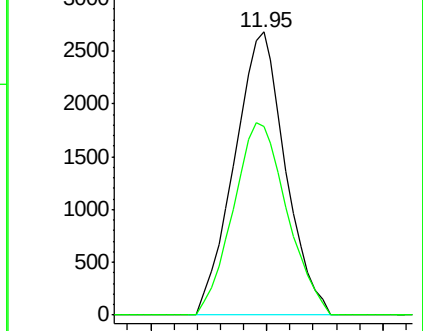
MMDadoda

1/24/2019 11:43:36 AM



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 5.218 ug/l

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV009230.D

Acq: 22 Jan 2019 11:58

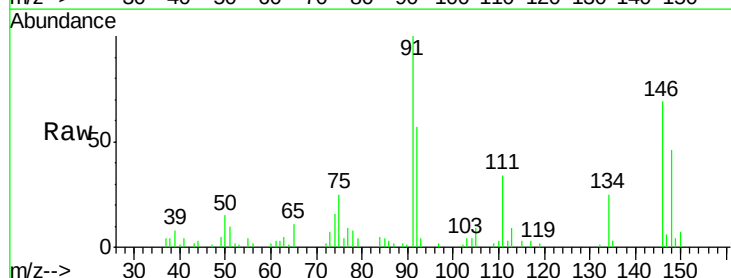
Tgt Ion:146 Resp: 11015

Ion Ratio Lower Upper

146 100

111 43.5 21.9 65.8

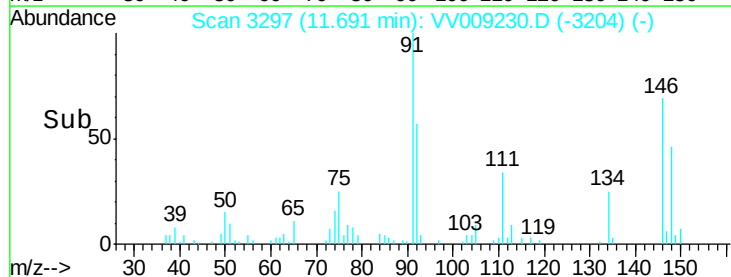
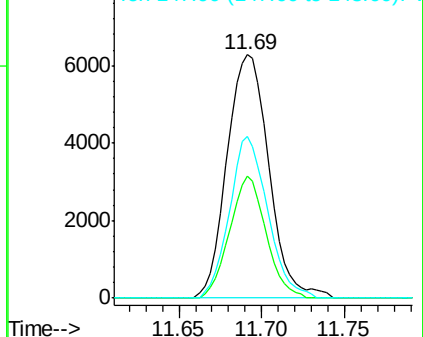
148 60.8 31.6 95.0

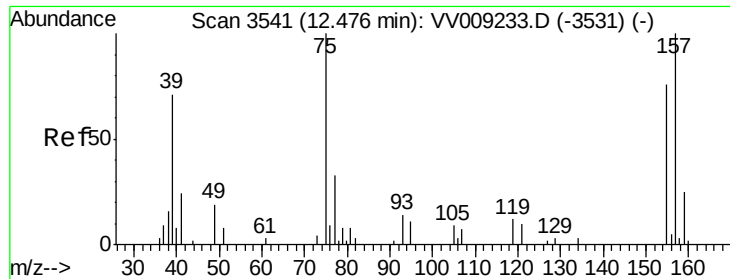


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





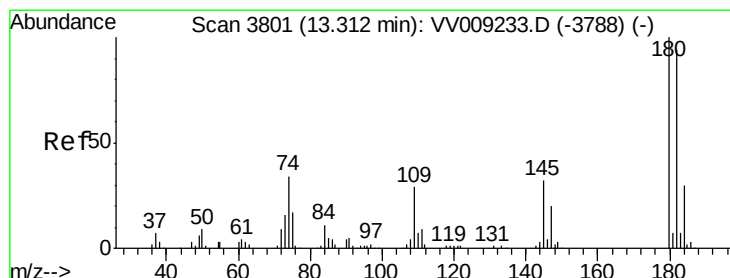
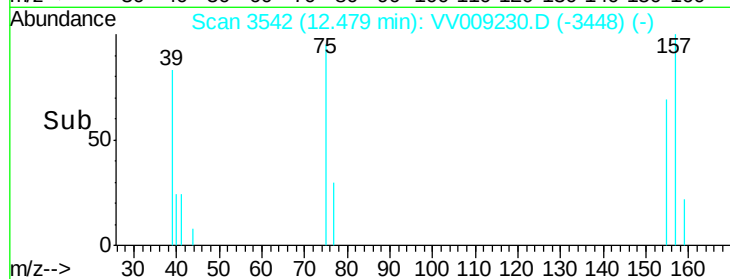
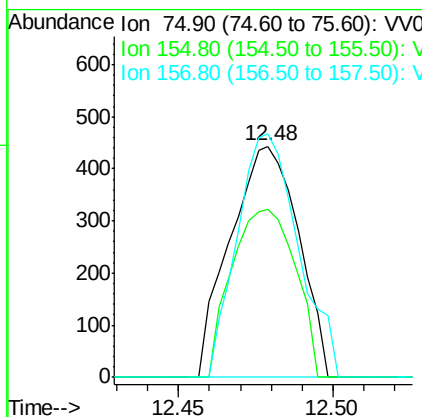
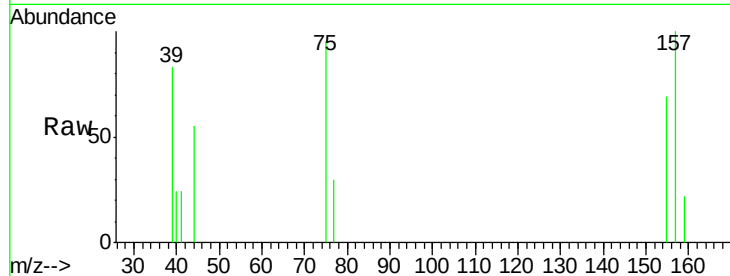
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.218 ug/l
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC005

Tot Ion: 75 Resp: 681
 Ion Ratio Lower Upper
 75 100
 155 68.3 38.0 114.0
 157 94.3 50.8 152.4

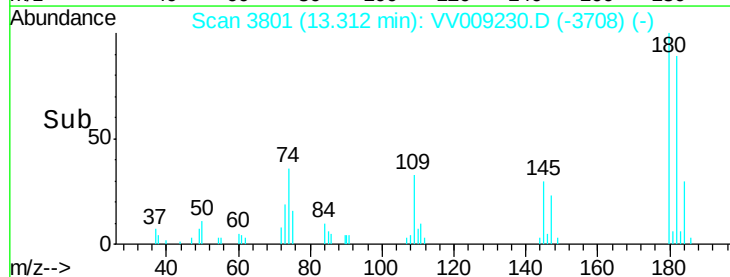
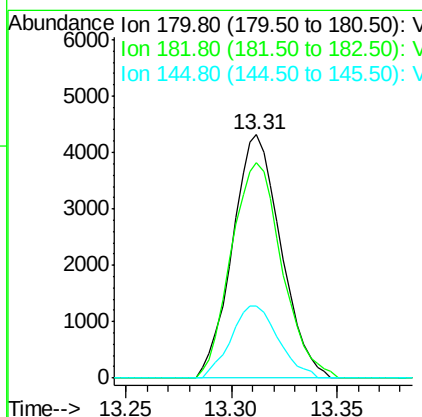
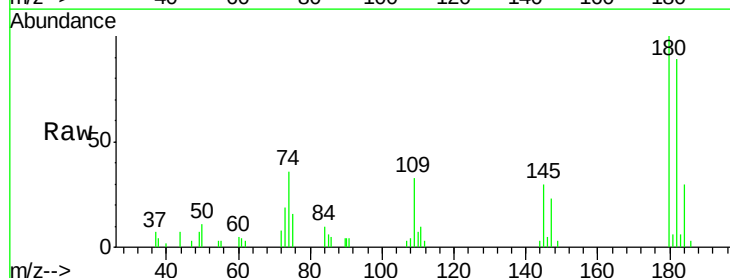
Manual Integrations
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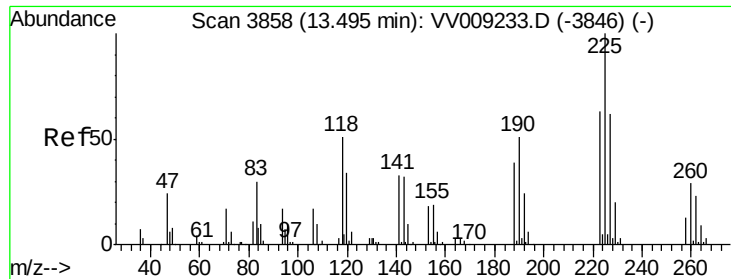
MMDadoda
 1/24/2019 11:43:36 AM



#93
 1,2,4-Trichlorobenzene
 Concen: 4.776 ug/l
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Tgt Ion: 180 Resp: 6877
 Ion Ratio Lower Upper
 180 100
 182 92.6 47.1 141.4
 145 29.0 16.0 48.0





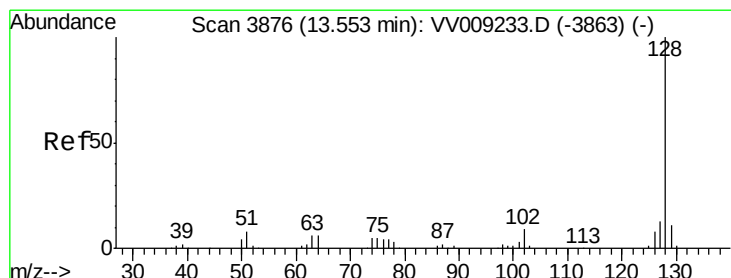
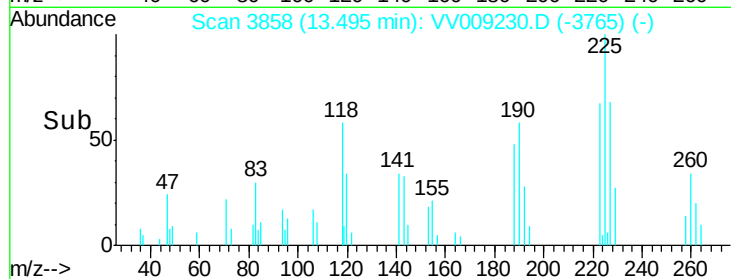
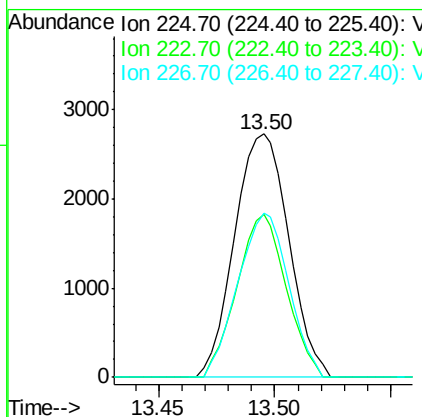
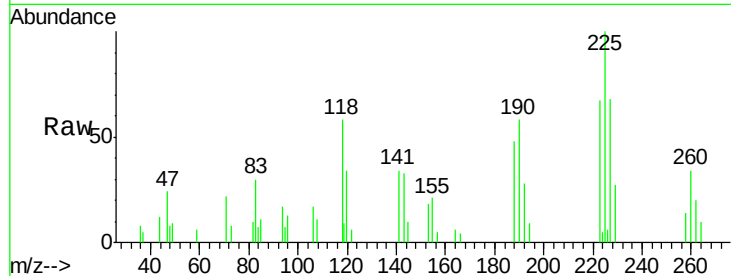
#94
Hexachlorobutadiene
Concen: 5.441 ug/l
RT: 13.50 min Scan# 3858
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Instrument :
MSVOA_V
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
225	100		
223	61.0	31.7	95.1
227	63.4	31.6	95.0

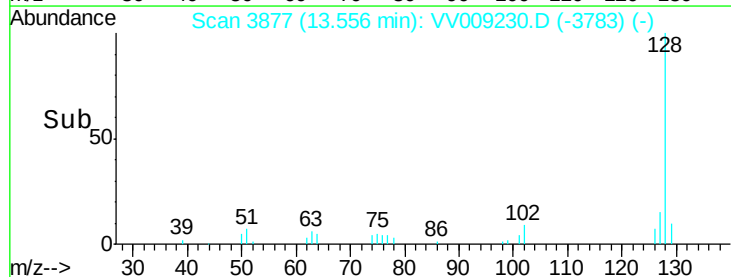
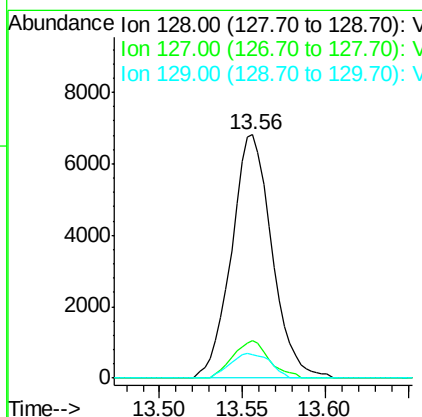
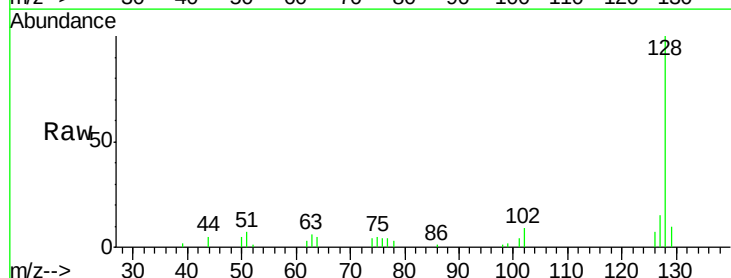
Manual Integrations
APPROVED

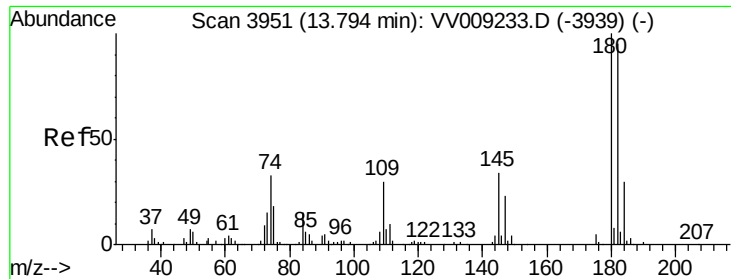
MMDadoda
1/24/2019 11:43:36 AM



#95
Naphthalene
Concen: 4.572 ug/l
RT: 13.56 min Scan# 3877
Delta R.T. 0.00 min
Lab File: VV009230.D
Acq: 22 Jan 2019 11:58

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.7	16.1
129	10.1	8.8	13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 4.700 ug/l
 RT: 13.80 min Scan# 3952
 Delta R.T. 0.00 min
 Lab File: VV009230.D
 Acq: 22 Jan 2019 11:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.0	47.4	142.2
145	35.8	17.2	51.5

Manual Integrations
 APPROVED

MMDadoda
 1/24/2019 11:43:36 AM

